FCC Test Report

Application Purpose	:	Original grant
Applicant Name:	:	TECNO MOBILE LIMITED
FCC ID	:	2ADYY-CX
Equipment Type	:	Mobile phone
Model Name	:	CX
Report Number	:	FCC17010035A-5
Standard(S)	:	FCC Part 22H&24E&27 Rules
Date Of Receipt	:	January 04, 2017
Date Of Issue	:	February 22, 2017

Test By :

（*Daisy Qin*）

Reviewed By :

(Sol Qin)

Authorized by :

(Michal Ling)

Prepared by : **QTC Certification & Testing Co., Ltd.**
2nd Floor,Bl Building,Fengyeyuan   Industrial Plant,, Liuxian 2st. Road, Xin'an Street, Bao'an District,,Shenzhen,518000
Registration Number: 588523

REPORT REVISE RECORD

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	February 22, 2017	Valid	Original Report

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1   CERTIFICATION

Applicant	TECNO MOBILE LIMITED
Address	ROOMS 05-15, 13A/F., SOUTH TOWER, WORLD FINANCE CENTRE, HARBOUR CITY, 17 CANTON ROAD, TSIM SHA TSUI, KOWLOON, HONG KONG
Manufacturer	SHENZHEN TECNO TECHNOLOGY CO.,LTD.
Address	1-4th Floor,3rd Building,Pacific Industrial Park,No.2088,Shenyan Road,Yantian District,Shenzhen,Guangdong,China
Equipment Type	Mobile phone
Brand Name	TECNO
Test Model	CX
Hardware version:	V1.6
Software version:	CX-H501C1-N-161222V32
Series Model	N/A
Difference description	N/A
Deviation	None
Condition of Test Sample	Normal

We hereby certify that:

All measurement facilities used to collect the measurement data are located at QTC Certification & Testing Co., Ltd.
Registration Number: 588523

The data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C 63.4:2014 and TIA/EIA 603. The sample tested as described in this report is in compliance with the FCC Rules Part 22H and 24E and 27.
The test results of this report relate only to the tested sample identified in this report.

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2 EUT INFORMATION

Table 2.1.1 General Information

Equipment Type:	Mobile phone
Hardware version:	V1.6
Software version:	CX-H501C1-N-161222V32
Frequency Bands:	☒GSM 850 ☒PCS 1900 (U.S. Bands) UTRA Bands: ☒UTRA Band 2 ☒UTRA Band 5 E-UTRA Bands: ☒ E-UTRA Band 2 ☒ E-UTRA Band 4 ☒ E-UTRA Band 7
Antenna Type:	Internal Antenna
Antenna gain:	PCS 1900/UTRA Band 2: -4.0dBi E-UTRA Band 2:-4.5dBi E-UTRA Band 4: -5.0dBi GSM850/UTRA Band 5: -4.0dBi E-UTRA Band 7: -4.0dBi
Battery information:	Li-Polymer Battery : BL-32AT Voltage: 3.85V Capacity: 3200mAh/3250mAh(min/typ) Limited Charge Voltage: 4.4V
Adapter Information:	Adapter: A88-502000 Input: AC 100~240V 50/60Hz 350mA Output: DC 5V~2A
Card(S):	Card 1: E-UTRA Card Slot Card 2: GSM Card Slot
Max power:	See Table 2.1.2
Extreme Vol. Limits:	DC 3.45V to 4.4V (Normal: DC 3.85V)
Extreme Temp. Tolerance	Charging:0~60℃;Discharging:-20~65℃

Note 1: The High Voltage DC 4.4V and Low Voltage DC 3.45V were declared by manufacturer, The EUT couldn't be operating normally with higher or lower voltage.

Table 2.1.2 The Basic Technical Specification for Working BAND(S).

OPERATION BAND(S)	Power Class	Mod.	Max Average (dBm)	Max Peak Power (dBm)
GSM850	Class 4	GMSK	32.94	33.14
DCS1900	Class 1	GMSK	29.85	30.11
UTRA BAND 2	Class 3	QPSK	22.98	23.97
UTRA BAND 5	Class 3	QPSK	22.86	23.62
E-UTRA Band 2	Class 3	QPSK	21.80	22.79
E-UTRA Band 2	Class 3	16QAM	21.79	22.78
E-UTRA Band 4	Class 3	QPSK	21.58	22.59
E-UTRA Band 4	Class 3	16QAM	21.59	22.57
E-UTRA Band 7	Class 3	QPSK	21.20	22.69
E-UTRA Band 7	Class 3	16QAM	21.19	23.68

3 TEST DESCRIPTION

3.1 Test Facility

The test site used to collect the radiated data is located at:

QTC Certification & Testing Co., Ltd.

Registration Number: 588523

3.2 EUT System Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

Fig. 3.2-1 Configuration of EUT System

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│              │
│     EUT      │
│              │
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Table 3.2-1 Equipment Used in EUT System

Item	Equipment	Model No.	ID or Specification	Note
1	Mobile phone	CX	2ADYY-CX	EUT

***Note: All the accessories have been used during the test. The following "EUT" in setup diagram means EUT system.

3.3 Description Of Test Channels And Test Modes

Test channels:

GSM 850			
Test Channel	BW(MHz)	UL Channel	Frequency(MHz)
Low Range	0.2	128	824.2
Mid Range	0.2	190	836.6
High Range	0.2	251	848.8

PCS 1900			
Test Channel	BW(MHz)	UL Channel	Frequency(MHz)
Low Range	0.2	512	1850.2
Mid Range	0.2	661	1880
High Range	0.2	810	1909.8

URTA BAND 2			
Test Channel	BW(MHz)	UL Channel	Frequency(MHz)
Low Range	5	9262	1852.4
Mid Range	5	9400	1880
High Range	5	9538	1907.6

URTA BAND 5			
Test Channel	BW(MHz)	UL Channel	Frequency(MHz)
Low Range	5	4132	826.4
Mid Range	5	4182	836.4
High Range	5	4233	846.6

LTE BAND 2			
Test Channel	BW(MHz)	UL Channel	Frequency(MHz)
Low Range	1.4	18607	1850.7
	3	18615	1851.5
	5	18625	1852.5
	10	18650	1855
	15	18675	1857.5
	20	18700	1860
Mid Range	1.4/3/5/10 15 /20	18900	1880
High Range	1.4	19193	1909.3
	3	19185	1908.5
	5	19175	1907.5
	10	19150	1905
	15	19125	1902.5
	20	19100	1900

LTE BAND 4			
Test Channel	BW(MHz)	UL Channel	Frequency(MHz)
Low Range	1.4	19957	1710.7
	3	19965	1711.5
	5	19975	1712.5
	10	20000	1715
	15	20025	1717.5
	20	20050	1720
Mid Range	1.4/3/5/10/15/20	20175	1732.5
High Range	1.4	20393	1754.3
	3	20385	1753.5
	5	20375	1752.5
	10	20350	1750
	15	20325	1747.5
	20	20300	1745

LTE BAND 7			
Test Channel	BW(MHz)	UL Channel	Frequency(MHz)
Low Range	5	20775	2502.5
	10	20800	2505
	15	20825	2507.5
	20	20850	2510
Mid Range	5/10/15/20	21100	2535
High Range	5	21425	2567.5
	10	21400	2565
	15	21375	2562.5
	20	21350	2560

Note 1: both QPSK&16QAM modulation has been measured;

Note 2: The worst condition was recorded in the test report if no other modes test data.

3.4 Equipment Modifications

Not available for this EUT intended for grant.

4 SUMMARY OF TEST REQUIREMENTS AND RESULTS

BAND 2(PCS 1900/ E-UTRA Band 2/ UTRA Band 2):

Test Item	FCC Rule No.	Requirements	Judgement
Effective (Isotropic) Radiated Power	§2.1046, §24.232(c)	EIRP ≤ 2W(33dBm)	Pass
Bandwidth	§2.1049 §24.238(a)	OBW: No limit. EBW: No limit.	Pass
Band Edges	§2.1051, §24.238(a)	-13dBm	Pass
Spurious Emission at Antenna Terminals	§2.1051, §24.238(a)	-13dBm	Pass
Field Strength of Spurious Radiation	§2.1053, §24.238(a)	-13dBm	Pass
Frequency Stability	§2.1055, §24.235	the fundamental emission stays within the authorized frequency block.	Pass
Peak to average ratio	§24.232(d)	<13dB	Pass

BAND 5(GSM850/ UTRA Band 5):

Test Item	FCC Rule No.	Requirements	Judgement
Effective (Isotropic) Radiated Power	§2.1046, §2.913(a)	EIRP ≤ 7W(33dBm)	Pass
Occupied Bandwidth	§2.1049	OBW: No limit.	Pass
Emission Bandwidth	22.917(b)	EBW: No limit.	Pass
Band Edges Compliance	§2.1051, §22.917(a)(b)	KDB 971 168 D02 971168 D02 Misc OOBE License Digital Systems v01 &27.53(m) for detail the limit is upon different OBW	Pass
Spurious Emission at Antenna Terminals	§2.1051, §22.917	-13dBm	Pass
Field Strength of Spurious Radiation	§2.1053, §22.917	-13dBm	Pass
Frequency Stability	§2.1055, §22.355	the fundamental emissions stay within the authorized bands of	Pass

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		operation. (2.5ppm)	

BAND 7(E-UTRA Band 7):

Test Item	FCC Rule No.	Requirements	Judgement
Effective (Isotropic) Radiated Power	§2.1046, §27.50(h)	EIRP ≤ 2W(33dBm)	Pass
Bandwidth	§2.1049	OBW: No limit. EBW: No limit.	Pass
Band Edges	§2.1051, §27.53(m)	KDB 971 168 D02 971168 D02 Misc OOBE License Digital Systems v01 &27.53(m) for detail the limit is upon different OBW	Pass
Spurious Emission at Antenna Terminals	§2.1051, §27.53(m)	-25dBm	Pass
Field Strength of Spurious Radiation	§2.1053, §27.53(m)	-25dBm	Pass
Frequency Stability	§2.1055, §27.54	the fundamental emissions stay within the authorized bands of operation. (2.5ppm)	Pass

MEASUREMENT INSTRUMENTS

NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.
EMI Test Receiver	R&S	ESCI	100005	08/19/2016	08/18/2017
LISN	AFJ	LS16	16010222119	08/19/2016	08/18/2017
LISN(EUT)	Mestec	AN3016	04/10040	08/19/2016	08/18/2017
Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	08/19/2016	08/18/2017
Coaxial cable	Megalon	LMR400	N/A	08/12/2016	08/11/2017
GPIB cable	Megalon	GPIB	N/A	08/12/2016	08/11/2017
Spectrum Analyzer	R&S	FSU	100114	08/19/2016	08/18/2017
Pre Amplifier	H.P.	HP8447E	2945A02715	10/13/2016	10/12/2017
Pre-Amplifier	CDSI	PAP-1G18-38	--	10/13/2016	10/12/2017
Loop Antenna	R&S	HFH2-Z2	100296	10/13/2016	10/12/2017
Bi-log Antenna	SUNOL Sciences	JB3	A021907	09/13/2016	09/12/2017
9*6*6 Anechoic	--	--	--	08/21/2016	08/20/2017
Horn Antenna	COMPLIANCE ENGINEERING	CE18000	--	09/13/2016	09/12/2017
Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	08/23/2016	08/22/2017
Power meter	Anritsu	ML2487A	6K00003613	08/23/2016	08/22/2017
Power meter	Anritsu	MA2491A	32263	08/23/2016	08/22/2017
Cable	TIME MICROWAVE	LMR-400	N-TYPE04	04/24/2016	04/23/2017
System-Controller	CCS	N/A	N/A	N.C.R	N.C.R
Turn Table	CCS	N/A	N/A	N.C.R	N.C.R
Antenna Tower	CCS	N/A	N/A	N.C.R	N.C.R
RF cable	Murata	MXHQ87WA3000	-	08/21/2016	08/20/2017
Loop Antenna	EMCO	6502	00042960	08/22/2016	08/21/2017
Wideband Radio Communication Tester	R&S	CMW 500	103974	08/19/2016	08/18/2017
Horn Antenna	SCHWARZBECK	BBHA 9170	1123	08/19/2016	08/18/2017
H & T Chamber	Guangzhou gongwen	GDJS-500-40	0329	08/19/2016	08/18/2017

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5 EFFECTIVE (ISOTROPIC) RADIATED POWER

Measurement Result

GSM850 BAND:

Mode	Frequency (MHz)	Peak Power	Avg.Burst Power	Tolerance	Duty cycle Factor(dB)	Frame Power(dBm)
GSM850	824.2	**33.14**	**32.94**	0.20	-9	23.94
	836.6	32.93	32.75	0.18	-9	23.75
	848.8	32.87	32.67	0.20	-9	23.67
GPRS850	824.2	29.98	29.77	0.21	-9	20.77
	836.6	30.07	29.40	0.67	-9	20.40
	848.8	30.15	29.39	0.76	-9	20.39
EGPRS850	824.2	29.23	29.12	0.11	-9	20.12
	836.6	29.02	28.67	0.35	-9	19.67
	848.8	29.08	28.55	0.53	-9	19.55

PCS1900 BAND:

Mode	Frequency (MHz)	Peak Power	Tolerance	Avg.Burst Power	Duty cycle Factor(dB)	Frame Power(dBm)
GSM1900	1850.2	30.07	29.01	1.06	-9	20.01
	1880	**30.11**	29.58	0.53	-9	20.58
	1909.8	29.99	**29.85**	0.14	-9	20.85
GPRS1900	1850.2	27.14	25.78	1.36	-9	16.78
	1880	27.31	26.35	0.96	-9	17.35
	1909.8	27.28	26.56	0.72	-9	17.56
EGPRS1900	1850.2	26.52	25.08	1.44	-9	16.08
	1880	26.38	25.22	1.16	-9	16.22
	1909.8	26.61	25.39	1.22	-9	16.39

UTRA BANDS:
BAND 2:

Mode	Frequency (MHz)	Peak Power (dBm)	Avg. Burst Power(dBm)	PAPR (dB)
RMC 12.2K	1852.4	23.38	22.69	0.69
	1880	23.27	22.37	0.90
	1907.6	23.29	**22.98**	0.31
HSDPA SUBTEST 1	1852.4	**23.97**	21.00	2.97
	1880	23.52	21.25	2.27
	1907.6	23.21	21.34	1.87
HSUPA SUBTEST 1	1852.4	23.28	21.23	2.05
	1880	23.19	21.98	1.21
	1907.6	23.25	21.01	2.24

BAND 5:

Mode	Frequency (MHz)	Peak Power (dBm)	Avg. Burst Power(dBm)	PAPR (dB)
RMC 12.2K	826.4	23.55	22.82	0.73
	836.4	23.61	**22.86**	0.75
	846.6	23.41	22.53	0.88
HSDPA SUBTEST 1	826.4	**23.62**	20.99	2.63
	836.4	23.47	20.96	2.51
	846.6	23.39	20.91	2.48
HSUPA SUBTEST 1	826.4	23.21	21.61	1.60
	836.4	23.20	21.31	1.89
	846.6	23.12	21.08	2.04

E-UTRA BANDS:
BAND 2:

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
1.4	18607	1850.7	QPSK	1	LOW	21.79	22.17	0.38
1.4	18607	1850.7	QPSK	1	MID	21.19	22.05	0.86
1.4	18607	1850.7	QPSK	1	HIGH	21.65	22.3	0.65
1.4	18607	1850.7	QPSK	3	LOW	20.8	22.1	1.3
1.4	18607	1850.7	QPSK	3	MID	21.29	22.06	0.77
1.4	18607	1850.7	QPSK	3	HIGH	21.67	22.02	0.35
1.4	18607	1850.7	QPSK	6	LOW	21.1	22.58	1.48
1.4	18607	1850.7	Q16	1	LOW	21.36	22.55	1.19
1.4	18607	1850.7	Q16	1	MID	21.04	22.47	1.43
1.4	18607	1850.7	Q16	1	HIGH	20.8	21.84	1.04
1.4	18607	1850.7	Q16	3	LOW	21.64	22	0.36
1.4	18607	1850.7	Q16	3	MID	21.24	22.01	0.77
1.4	18607	1850.7	Q16	3	HIGH	21.21	22.01	0.8
1.4	18607	1850.7	Q16	6	LOW	21.77	21.96	0.19
1.4	18900	1880	QPSK	1	LOW	20.87	22.55	1.68
1.4	18900	1880	QPSK	1	MID	21	22.04	1.04
1.4	18900	1880	QPSK	1	HIGH	21.2	22.54	1.34
1.4	18900	1880	QPSK	3	LOW	21.26	21.95	0.69
1.4	18900	1880	QPSK	3	MID	21.18	22.23	1.05
1.4	18900	1880	QPSK	3	HIGH	21.51	22	0.49
1.4	18900	1880	QPSK	6	LOW	21.49	21.92	0.43
1.4	18900	1880	Q16	1	LOW	21.75	22.56	0.81
1.4	18900	1880	Q16	1	MID	20.87	22.18	1.31
1.4	18900	1880	Q16	1	HIGH	21.3	22.79	1.49
1.4	18900	1880	Q16	3	LOW	21.52	22.29	0.77
1.4	18900	1880	Q16	3	MID	21.15	22.33	1.18
1.4	18900	1880	Q16	3	HIGH	20.82	22.27	1.45
1.4	18900	1880	Q16	6	LOW	21.59	21.92	0.33
1.4	19193	1909.3	QPSK	1	LOW	21.59	22.26	0.67
1.4	19193	1909.3	QPSK	1	MID	21.43	21.84	0.41
1.4	19193	1909.3	QPSK	1	HIGH	21.56	21.94	0.38
1.4	19193	1909.3	QPSK	3	LOW	20.98	21.96	0.98
1.4	19193	1909.3	QPSK	3	MID	21.67	22.05	0.38
1.4	19193	1909.3	QPSK	3	HIGH	21.49	22.06	0.57
1.4	19193	1909.3	QPSK	6	LOW	21.8	22.73	0.93

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
1.4	19193	1909.3	Q16	1	LOW	21.34	22.17	0.83
1.4	19193	1909.3	Q16	1	MID	21.3	22.08	0.78
1.4	19193	1909.3	Q16	1	HIGH	21.42	22.17	0.75
1.4	19193	1909.3	Q16	3	LOW	21.39	22.38	0.99
1.4	19193	1909.3	Q16	3	MID	21.54	22.29	0.75
1.4	19193	1909.3	Q16	3	HIGH	20.91	22.51	1.6
1.4	19193	1909.3	Q16	6	LOW	21.54	22.31	0.77
3	18615	1851.5	QPSK	1	LOW	21.47	22.04	0.57
3	18615	1851.5	QPSK	1	MID	21.52	22.1	0.58
3	18615	1851.5	QPSK	1	HIGH	21.59	22.13	0.54
3	18615	1851.5	QPSK	8	LOW	21.08	22.52	1.44
3	18615	1851.5	QPSK	8	MID	20.86	22.5	1.64
3	18615	1851.5	QPSK	8	HIGH	21.68	22.04	0.36
3	18615	1851.5	QPSK	15	LOW	20.83	22.08	1.25
3	18615	1851.5	Q16	1	LOW	21.7	21.98	0.28
3	18615	1851.5	Q16	1	MID	21.65	21.96	0.31
3	18615	1851.5	Q16	1	HIGH	21.05	22.65	1.6
3	18615	1851.5	Q16	8	LOW	21.41	21.95	0.54
3	18615	1851.5	Q16	8	MID	21.28	22.74	1.46
3	18615	1851.5	Q16	8	HIGH	20.83	21.92	1.09
3	18615	1851.5	Q16	15	LOW	20.84	22.14	1.3
3	18900	1880	QPSK	1	LOW	21.77	21.91	0.14
3	18900	1880	QPSK	1	MID	21.8	22.19	0.39
3	18900	1880	QPSK	1	HIGH	21.62	22.73	1.11
3	18900	1880	QPSK	8	LOW	21.19	22.23	1.04
3	18900	1880	QPSK	8	MID	21.16	22.27	1.11
3	18900	1880	QPSK	8	HIGH	21.77	22.38	0.61
3	18900	1880	QPSK	15	LOW	21.04	22.52	1.48
3	18900	1880	Q16	1	LOW	21.37	21.97	0.6
3	18900	1880	Q16	1	MID	20.94	22.48	1.54
3	18900	1880	Q16	1	HIGH	21.26	21.92	0.66
3	18900	1880	Q16	8	LOW	21.14	22.14	1
3	18900	1880	Q16	8	MID	21.39	21.96	0.57
3	18900	1880	Q16	8	HIGH	21.54	21.99	0.45
3	18900	1880	Q16	15	LOW	21.38	22.2	0.82
3	19185	1908.5	QPSK	1	LOW	20.84	21.84	1
3	19185	1908.5	QPSK	1	MID	21.6	22.13	0.53

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
3	19185	1908.5	QPSK	1	HIGH	21.68	22.61	0.93
3	19185	1908.5	QPSK	8	LOW	20.93	22.65	1.72
3	19185	1908.5	QPSK	8	MID	21.23	22.05	0.82
3	19185	1908.5	QPSK	8	HIGH	21.14	22.16	1.02
3	19185	1908.5	QPSK	15	LOW	21.72	22.66	0.94
3	19185	1908.5	Q16	1	LOW	21.32	21.93	0.61
3	19185	1908.5	Q16	1	MID	21.42	22.33	0.91
3	19185	1908.5	Q16	1	HIGH	21.77	22.24	0.47
3	19185	1908.5	Q16	8	LOW	21.41	21.97	0.56
3	19185	1908.5	Q16	8	MID	20.92	21.95	1.03
3	19185	1908.5	Q16	8	HIGH	20.87	22.29	1.42
3	19185	1908.5	Q16	15	LOW	21.11	22.5	1.39
5	18625	1852.5	QPSK	1	LOW	20.85	22.3	1.45
5	18625	1852.5	QPSK	1	MID	21.34	22.27	0.93
5	18625	1852.5	QPSK	1	HIGH	21.7	22.53	0.83
5	18625	1852.5	QPSK	12	LOW	21.25	22.1	0.85
5	18625	1852.5	QPSK	12	MID	21.11	22.32	1.21
5	18625	1852.5	QPSK	12	HIGH	21.59	22.28	0.69
5	18625	1852.5	QPSK	25	LOW	20.99	22.26	1.27
5	18625	1852.5	Q16	1	LOW	21.42	22.14	0.72
5	18625	1852.5	Q16	1	MID	21.42	21.94	0.52
5	18625	1852.5	Q16	1	HIGH	21.62	22.37	0.75
5	18625	1852.5	Q16	12	LOW	21.19	21.98	0.79
5	18625	1852.5	Q16	12	MID	20.8	22.26	1.46
5	18625	1852.5	Q16	12	HIGH	20.85	22.3	1.45
5	18625	1852.5	Q16	25	LOW	21.74	22.19	0.45
5	18900	1880	QPSK	1	LOW	21.5	22.67	1.17
5	18900	1880	QPSK	1	MID	21.64	22.42	0.78
5	18900	1880	QPSK	1	HIGH	21.35	22.34	0.99
5	18900	1880	QPSK	12	LOW	21.47	22.73	1.26
5	18900	1880	QPSK	12	MID	21.3	22.58	1.28
5	18900	1880	QPSK	12	HIGH	21.09	22.14	1.05
5	18900	1880	QPSK	25	LOW	21.07	21.95	0.88
5	18900	1880	Q16	1	LOW	21.24	22.68	1.44
5	18900	1880	Q16	1	MID	21.68	22.56	0.88
5	18900	1880	Q16	1	HIGH	21.64	22.5	0.86
5	18900	1880	Q16	12	LOW	21.7	22.2	0.5

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
5	18900	1880	Q16	12	MID	21.33	22.24	0.91
5	18900	1880	Q16	12	HIGH	21.56	21.81	0.25
5	18900	1880	Q16	25	LOW	21.05	21.96	0.91
5	19175	1907.5	QPSK	1	LOW	21.11	22.16	1.05
5	19175	1907.5	QPSK	1	MID	21.76	22.09	0.33
5	19175	1907.5	QPSK	1	HIGH	21.75	22.39	0.64
5	19175	1907.5	QPSK	12	LOW	21.7	22.71	1.01
5	19175	1907.5	QPSK	12	MID	21.63	22.02	0.39
5	19175	1907.5	QPSK	12	HIGH	21.15	22.35	1.2
5	19175	1907.5	QPSK	25	LOW	21	22.01	1.01
5	19175	1907.5	Q16	1	LOW	21.24	22.07	0.83
5	19175	1907.5	Q16	1	MID	21.19	22.34	1.15
5	19175	1907.5	Q16	1	HIGH	21.56	22.74	1.18
5	19175	1907.5	Q16	12	LOW	20.98	22.05	1.07
5	19175	1907.5	Q16	12	MID	21.02	21.84	0.82
5	19175	1907.5	Q16	12	HIGH	21.78	22.08	0.3
5	19175	1907.5	Q16	25	LOW	21.5	22.11	0.61
10	18650	1855	QPSK	1	LOW	21.44	22.58	1.14
10	18650	1855	QPSK	1	MID	20.91	22.15	1.24
10	18650	1855	QPSK	1	HIGH	21.15	22.01	0.86
10	18650	1855	QPSK	25	LOW	21.47	22.77	1.3
10	18650	1855	QPSK	25	MID	20.94	22.19	1.25
10	18650	1855	QPSK	25	HIGH	21.4	22.57	1.17
10	18650	1855	QPSK	50	LOW	21.19	22.26	1.07
10	18650	1855	Q16	1	LOW	21.6	21.97	0.37
10	18650	1855	Q16	1	MID	21.01	22.54	1.53
10	18650	1855	Q16	1	HIGH	21.78	22.64	0.86
10	18650	1855	Q16	25	LOW	20.83	22.45	1.62
10	18650	1855	Q16	25	MID	20.87	22.64	1.77
10	18650	1855	Q16	25	HIGH	21.33	22.44	1.11
10	18650	1855	Q16	50	LOW	20.9	22.08	1.18
10	18900	1880	QPSK	1	LOW	20.91	22.65	1.74
10	18900	1880	QPSK	1	MID	21.52	21.92	0.4
10	18900	1880	QPSK	1	HIGH	21.01	21.81	0.8
10	18900	1880	QPSK	25	LOW	21.7	21.85	0.15
10	18900	1880	QPSK	25	MID	21.61	22.7	1.09
10	18900	1880	QPSK	25	HIGH	21.67	21.81	0.14

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
10	18900	1880	QPSK	50	LOW	20.89	21.88	0.99
10	18900	1880	Q16	1	LOW	20.86	22.28	1.42
10	18900	1880	Q16	1	MID	21.54	22.4	0.86
10	18900	1880	Q16	1	HIGH	21.02	22.06	1.04
10	18900	1880	Q16	25	LOW	21.41	22.43	1.02
10	18900	1880	Q16	25	MID	21.67	22.49	0.82
10	18900	1880	Q16	25	HIGH	20.86	22.28	1.42
10	18900	1880	Q16	50	LOW	21.65	22.58	0.93
10	19150	1905	QPSK	1	LOW	21.64	22.74	1.1
10	19150	1905	QPSK	1	MID	20.9	22.41	1.51
10	19150	1905	QPSK	1	HIGH	21.68	21.9	0.22
10	19150	1905	QPSK	25	LOW	21.25	22.46	1.21
10	19150	1905	QPSK	25	MID	21.7	22.33	0.63
10	19150	1905	QPSK	25	HIGH	21.68	22.79	1.11
10	19150	1905	QPSK	50	LOW	21.02	22.3	1.28
10	19150	1905	Q16	1	LOW	20.98	22.21	1.23
10	19150	1905	Q16	1	MID	21.02	21.84	0.82
10	19150	1905	Q16	1	HIGH	21.64	22.76	1.12
10	19150	1905	Q16	25	LOW	21.77	22.02	0.25
10	19150	1905	Q16	25	MID	21.56	22.64	1.08
10	19150	1905	Q16	25	HIGH	21	22.25	1.25
10	19150	1905	Q16	50	LOW	20.94	21.81	0.87
15	18675	1857.5	QPSK	1	LOW	21.75	22.31	0.56
15	18675	1857.5	QPSK	1	MID	21.63	21.9	0.27
15	18675	1857.5	QPSK	1	HIGH	21.44	22.72	1.28
15	18675	1857.5	QPSK	36	LOW	21.73	22.41	0.68
15	18675	1857.5	QPSK	36	MID	21	22.5	1.5
15	18675	1857.5	QPSK	36	HIGH	20.89	22.67	1.78
15	18675	1857.5	QPSK	75	LOW	21.46	22.31	0.85
15	18675	1857.5	Q16	1	LOW	20.91	22.07	1.16
15	18675	1857.5	Q16	1	MID	21.3	22.71	1.41
15	18675	1857.5	Q16	1	HIGH	21.47	22.2	0.73
15	18675	1857.5	Q16	36	LOW	21.18	22.39	1.21
15	18675	1857.5	Q16	36	MID	21.77	21.8	0.03
15	18675	1857.5	Q16	36	HIGH	20.84	22.78	1.94
15	18675	1857.5	Q16	75	LOW	20.96	22.2	1.24
15	18900	1880	QPSK	1	LOW	20.88	22.16	1.28

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
15	18900	1880	QPSK	1	MID	21.05	22.39	1.34
15	18900	1880	QPSK	1	HIGH	20.91	22.45	1.54
15	18900	1880	QPSK	36	LOW	21.43	22.45	1.02
15	18900	1880	QPSK	36	MID	21.65	22.23	0.58
15	18900	1880	QPSK	36	HIGH	21.3	22.3	1
15	18900	1880	QPSK	75	LOW	21.66	22.48	0.82
15	18900	1880	Q16	1	LOW	21.42	22.53	1.11
15	18900	1880	Q16	1	MID	21.13	22.03	0.9
15	18900	1880	Q16	1	HIGH	20.87	22.39	1.52
15	18900	1880	Q16	36	LOW	21.64	22.11	0.47
15	18900	1880	Q16	36	MID	21.45	22.11	0.66
15	18900	1880	Q16	36	HIGH	21.7	22.46	0.76
15	18900	1880	Q16	75	LOW	21.21	22.44	1.23
15	19125	1902.5	QPSK	1	LOW	21.23	22.57	1.34
15	19125	1902.5	QPSK	1	MID	21.53	22.03	0.5
15	19125	1902.5	QPSK	1	HIGH	21.72	22.65	0.93
15	19125	1902.5	QPSK	36	LOW	21.49	22.54	1.05
15	19125	1902.5	QPSK	36	MID	21.16	22.64	1.48
15	19125	1902.5	QPSK	36	HIGH	21.78	22.38	0.6
15	19125	1902.5	QPSK	75	LOW	21.39	22.41	1.02
15	19125	1902.5	Q16	1	LOW	21.63	21.84	0.21
15	19125	1902.5	Q16	1	MID	21.78	22.7	0.92
15	19125	1902.5	Q16	1	HIGH	21.16	21.81	0.65
15	19125	1902.5	Q16	36	LOW	21.45	22.49	1.04
15	19125	1902.5	Q16	36	MID	21.35	22.25	0.9
15	19125	1902.5	Q16	36	HIGH	21.75	21.95	0.2
15	19125	1902.5	Q16	75	LOW	21.44	22.52	1.08
20	18700	1860	QPSK	1	LOW	21.01	22.32	1.31
20	18700	1860	QPSK	1	MID	20.98	22.23	1.25
20	18700	1860	QPSK	1	HIGH	21.53	22.6	1.07
20	18700	1860	QPSK	50	LOW	21.33	22.66	1.33
20	18700	1860	QPSK	50	MID	20.85	22.09	1.24
20	18700	1860	QPSK	50	HIGH	21.71	22.19	0.48
20	18700	1860	QPSK	100	LOW	20.98	22.38	1.4
20	18700	1860	Q16	1	LOW	21.25	22.07	0.82
20	18700	1860	Q16	1	MID	21.54	22.73	1.19
20	18700	1860	Q16	1	HIGH	21.25	22.24	0.99

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
20	18700	1860	Q16	50	LOW	21.18	22.09	0.91
20	18700	1860	Q16	50	MID	21.12	22.19	1.07
20	18700	1860	Q16	50	HIGH	21.02	22.74	1.72
20	18700	1860	Q16	100	LOW	20.97	21.96	0.99
20	18900	1880	QPSK	1	LOW	20.99	22.23	1.24
20	18900	1880	QPSK	1	MID	21.49	22.11	0.62
20	18900	1880	QPSK	1	HIGH	21.09	21.84	0.75
20	18900	1880	QPSK	50	LOW	21.71	21.92	0.21
20	18900	1880	QPSK	50	MID	21.75	22.62	0.87
20	18900	1880	QPSK	50	HIGH	21.49	22.53	1.04
20	18900	1880	QPSK	100	LOW	21.14	22.59	1.45
20	18900	1880	Q16	1	LOW	21.27	22.73	1.46
20	18900	1880	Q16	1	MID	21.19	22.47	1.28
20	18900	1880	Q16	1	HIGH	21.52	21.88	0.36
20	18900	1880	Q16	50	LOW	21.54	22.7	1.16
20	18900	1880	Q16	50	MID	21.59	21.91	0.32
20	18900	1880	Q16	50	HIGH	21.04	22.35	1.31
20	18900	1880	Q16	100	LOW	21.07	21.81	0.74
20	19100	1900	QPSK	1	LOW	21.36	22.3	0.94
20	19100	1900	QPSK	1	MID	21.04	22.5	1.46
20	19100	1900	QPSK	1	HIGH	20.84	22.23	1.39
20	19100	1900	QPSK	50	LOW	20.96	22.69	1.73
20	19100	1900	QPSK	50	MID	21.74	22.52	0.78
20	19100	1900	QPSK	50	HIGH	21.31	22.72	1.41
20	19100	1900	QPSK	100	LOW	21.7	22.2	0.5
20	19100	1900	Q16	1	LOW	20.94	22.65	1.71
20	19100	1900	Q16	1	MID	21.43	22.79	1.36
20	19100	1900	Q16	1	HIGH	21.02	22.14	1.12
20	19100	1900	Q16	50	LOW	21.73	22.25	0.52
20	19100	1900	Q16	50	MID	21.03	22.3	1.27
20	19100	1900	Q16	50	HIGH	21.25	22.61	1.36
20	19100	1900	Q16	100	LOW	21	21.98	0.98

BAND 4:

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
1.4	19957	1710.7	QPSK	1	LOW	21.48	21.94	0.46
1.4	19957	1710.7	QPSK	1	MID	21.5	22.51	1.01
1.4	19957	1710.7	QPSK	1	HIGH	20.63	22.17	1.54
1.4	19957	1710.7	QPSK	3	LOW	21.15	22.26	1.11
1.4	19957	1710.7	QPSK	3	MID	21.14	22.03	0.89
1.4	19957	1710.7	QPSK	3	HIGH	20.74	21.87	1.13
1.4	19957	1710.7	QPSK	6	LOW	20.79	22.5	1.71
1.4	19957	1710.7	Q16	1	LOW	20.89	22.15	1.26
1.4	19957	1710.7	Q16	1	MID	20.71	22.11	1.4
1.4	19957	1710.7	Q16	1	HIGH	21.17	22.47	1.3
1.4	19957	1710.7	Q16	3	LOW	21.07	21.91	0.84
1.4	19957	1710.7	Q16	3	MID	21.51	22.59	1.08
1.4	19957	1710.7	Q16	3	HIGH	21.49	21.96	0.47
1.4	19957	1710.7	Q16	6	LOW	21.21	22.17	0.96
1.4	20393	1754.3	QPSK	1	LOW	21.28	22.35	1.07
1.4	20393	1754.3	QPSK	1	MID	20.81	22.15	1.34
1.4	20393	1754.3	QPSK	1	HIGH	21.27	22.19	0.92
1.4	20393	1754.3	QPSK	3	LOW	21.53	22.49	0.96
1.4	20393	1754.3	QPSK	3	MID	21.31	21.89	0.58
1.4	20393	1754.3	QPSK	3	HIGH	20.68	22.1	1.42
1.4	20393	1754.3	QPSK	6	LOW	21.17	22.31	1.14
1.4	20393	1754.3	Q16	1	LOW	21.1	22.38	1.28
1.4	20393	1754.3	Q16	1	MID	21.54	21.83	0.29
1.4	20393	1754.3	Q16	1	HIGH	21.31	22.16	0.85
1.4	20393	1754.3	Q16	3	LOW	21.19	21.71	0.52
1.4	20393	1754.3	Q16	3	MID	20.79	21.91	1.12
1.4	20393	1754.3	Q16	3	HIGH	21.03	22.4	1.37
1.4	20393	1754.3	Q16	6	LOW	21.59	22.11	0.52
1.4	20175	1732.5	QPSK	1	LOW	21.58	21.99	0.41
1.4	20175	1732.5	QPSK	1	MID	21.41	22.43	1.02
1.4	20175	1732.5	QPSK	1	HIGH	21.54	22.29	0.75
1.4	20175	1732.5	QPSK	3	LOW	21.08	21.79	0.71
1.4	20175	1732.5	QPSK	3	MID	21.07	21.98	0.91
1.4	20175	1732.5	QPSK	3	HIGH	21.56	21.88	0.32
1.4	20175	1732.5	QPSK	6	LOW	21.14	21.69	0.55
1.4	20175	1732.5	Q16	1	LOW	21.14	22.23	1.09

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
1.4	20175	1732.5	Q16	1	MID	21.59	22.35	0.76
1.4	20175	1732.5	Q16	1	HIGH	21.38	22.16	0.78
1.4	20175	1732.5	Q16	3	LOW	21.24	21.96	0.72
1.4	20175	1732.5	Q16	3	MID	21.29	22.21	0.92
1.4	20175	1732.5	Q16	3	HIGH	20.65	22.24	1.59
1.4	20175	1732.5	Q16	6	LOW	20.98	22.19	1.21
3	19965	1711.5	QPSK	1	LOW	20.86	21.92	1.06
3	19965	1711.5	QPSK	1	MID	21	21.62	0.62
3	19965	1711.5	QPSK	1	HIGH	20.73	21.85	1.12
3	19965	1711.5	QPSK	8	LOW	21.16	22.27	1.11
3	19965	1711.5	QPSK	8	MID	21.27	22.02	0.75
3	19965	1711.5	QPSK	8	HIGH	20.76	22.11	1.35
3	19965	1711.5	QPSK	15	LOW	21.45	22.5	1.05
3	19965	1711.5	Q16	1	LOW	21.33	22.12	0.79
3	19965	1711.5	Q16	1	MID	20.89	22.24	1.35
3	19965	1711.5	Q16	1	HIGH	21.23	22.35	1.12
3	19965	1711.5	Q16	8	LOW	21.39	22.25	0.86
3	19965	1711.5	Q16	8	MID	21.52	22.31	0.79
3	19965	1711.5	Q16	8	HIGH	20.75	22.22	1.47
3	19965	1711.5	Q16	15	LOW	20.86	21.8	0.94
3	20385	1753.5	QPSK	1	LOW	20.97	22.21	1.24
3	20385	1753.5	QPSK	1	MID	20.97	22.02	1.05
3	20385	1753.5	QPSK	1	HIGH	21.46	22.21	0.75
3	20385	1753.5	QPSK	8	LOW	21.56	22.43	0.87
3	20385	1753.5	QPSK	8	MID	20.96	21.64	0.68
3	20385	1753.5	QPSK	8	HIGH	21.17	22.46	1.29
3	20385	1753.5	QPSK	15	LOW	21.1	21.97	0.87
3	20385	1753.5	Q16	1	LOW	21.56	21.97	0.41
3	20385	1753.5	Q16	1	MID	21.4	21.79	0.39
3	20385	1753.5	Q16	1	HIGH	21.04	22.1	1.06
3	20385	1753.5	Q16	8	LOW	20.85	22.14	1.29
3	20385	1753.5	Q16	8	MID	20.68	22.46	1.78
3	20385	1753.5	Q16	8	HIGH	21.32	22.23	0.91
3	20385	1753.5	Q16	15	LOW	20.98	21.84	0.86
3	20175	1732.5	QPSK	1	LOW	20.98	22.06	1.08
3	20175	1732.5	QPSK	1	MID	20.73	21.75	1.02
3	20175	1732.5	QPSK	1	HIGH	20.82	21.78	0.96

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
3	20175	1732.5	QPSK	8	LOW	21.52	22.23	0.71
3	20175	1732.5	QPSK	8	MID	20.94	21.97	1.03
3	20175	1732.5	QPSK	8	HIGH	21.24	22.05	0.81
3	20175	1732.5	QPSK	15	LOW	21.5	21.85	0.35
3	20175	1732.5	Q16	1	LOW	21.56	22.06	0.5
3	20175	1732.5	Q16	1	MID	20.62	22.09	1.47
3	20175	1732.5	Q16	1	HIGH	20.82	22	1.18
3	20175	1732.5	Q16	8	LOW	21.39	21.89	0.5
3	20175	1732.5	Q16	8	MID	21.05	22.04	0.99
3	20175	1732.5	Q16	8	HIGH	20.83	21.88	1.05
3	20175	1732.5	Q16	15	LOW	20.95	21.99	1.04
5	19975	1712.5	QPSK	1	LOW	21.3	22.26	0.96
5	19975	1712.5	QPSK	1	MID	21.25	21.7	0.45
5	19975	1712.5	QPSK	1	HIGH	21.14	22.43	1.29
5	19975	1712.5	QPSK	12	LOW	21.52	22.52	1
5	19975	1712.5	QPSK	12	MID	20.92	21.64	0.72
5	19975	1712.5	QPSK	12	HIGH	20.74	22.02	1.28
5	19975	1712.5	QPSK	25	LOW	21.16	21.8	0.64
5	19975	1712.5	Q16	1	LOW	21.4	22.53	1.13
5	19975	1712.5	Q16	1	MID	20.91	22.32	1.41
5	19975	1712.5	Q16	1	HIGH	21.46	21.78	0.32
5	19975	1712.5	Q16	12	LOW	21.51	22.1	0.59
5	19975	1712.5	Q16	12	MID	21.53	22.46	0.93
5	19975	1712.5	Q16	12	HIGH	20.71	22.33	1.62
5	19975	1712.5	Q16	25	LOW	21.1	21.79	0.69
5	20375	1752.5	QPSK	1	LOW	21.09	22.48	1.39
5	20375	1752.5	QPSK	1	MID	21	22.25	1.25
5	20375	1752.5	QPSK	1	HIGH	21.57	22.06	0.49
5	20375	1752.5	QPSK	12	LOW	21.16	21.63	0.47
5	20375	1752.5	QPSK	12	MID	21.16	21.85	0.69
5	20375	1752.5	QPSK	12	HIGH	21.45	22	0.55
5	20375	1752.5	QPSK	25	LOW	20.61	21.83	1.22
5	20375	1752.5	Q16	1	LOW	20.95	21.72	0.77
5	20375	1752.5	Q16	1	MID	21.37	21.96	0.59
5	20375	1752.5	Q16	1	HIGH	21.46	21.98	0.52
5	20375	1752.5	Q16	12	LOW	21.35	22.38	1.03
5	20375	1752.5	Q16	12	MID	20.84	22.19	1.35

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
5	20375	1752.5	Q16	12	HIGH	21.24	22.15	0.91
5	20375	1752.5	Q16	25	LOW	20.7	21.88	1.18
5	20175	1732.5	QPSK	1	LOW	20.99	22.21	1.22
5	20175	1732.5	QPSK	1	MID	21.25	21.94	0.69
5	20175	1732.5	QPSK	1	HIGH	20.69	22.53	1.84
5	20175	1732.5	QPSK	12	LOW	21.54	21.87	0.33
5	20175	1732.5	QPSK	12	MID	21.27	21.76	0.49
5	20175	1732.5	QPSK	12	HIGH	21.21	22.43	1.22
5	20175	1732.5	QPSK	25	LOW	21.51	22.42	0.91
5	20175	1732.5	Q16	1	LOW	20.94	21.91	0.97
5	20175	1732.5	Q16	1	MID	21.15	22.26	1.11
5	20175	1732.5	Q16	1	HIGH	21.38	22.37	0.99
5	20175	1732.5	Q16	12	LOW	20.61	21.75	1.14
5	20175	1732.5	Q16	12	MID	21.37	22.42	1.05
5	20175	1732.5	Q16	12	HIGH	21.4	22.2	0.8
5	20175	1732.5	Q16	25	LOW	21.26	22.45	1.19
10	20000	1715	QPSK	1	LOW	21.22	22.48	1.26
10	20000	1715	QPSK	1	MID	20.93	22.48	1.55
10	20000	1715	QPSK	1	HIGH	21.45	22.32	0.87
10	20000	1715	QPSK	25	LOW	20.79	22.17	1.38
10	20000	1715	QPSK	25	MID	21.33	22.51	1.18
10	20000	1715	QPSK	25	HIGH	20.75	21.99	1.24
10	20000	1715	QPSK	50	LOW	21.03	21.89	0.86
10	20000	1715	Q16	1	LOW	21.17	21.63	0.46
10	20000	1715	Q16	1	MID	20.82	21.74	0.92
10	20000	1715	Q16	1	HIGH	20.74	22.08	1.34
10	20000	1715	Q16	25	LOW	21.52	22.46	0.94
10	20000	1715	Q16	25	MID	20.77	22.2	1.43
10	20000	1715	Q16	25	HIGH	21.26	22.43	1.17
10	20000	1715	Q16	50	LOW	20.96	22.58	1.62
10	20350	1750	QPSK	1	LOW	20.94	21.64	0.7
10	20350	1750	QPSK	1	MID	20.87	21.9	1.03
10	20350	1750	QPSK	1	HIGH	21.01	21.76	0.75
10	20350	1750	QPSK	25	LOW	20.83	21.67	0.84
10	20350	1750	QPSK	25	MID	21.27	22.07	0.8
10	20350	1750	QPSK	25	HIGH	20.62	22.37	1.75
10	20350	1750	QPSK	50	LOW	20.94	21.78	0.84

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
10	20350	1750	Q16	1	LOW	20.97	22.4	1.43
10	20350	1750	Q16	1	MID	21.05	21.64	0.59
10	20350	1750	Q16	1	HIGH	20.97	21.61	0.64
10	20350	1750	Q16	25	LOW	21.26	22.54	1.28
10	20350	1750	Q16	25	MID	21.46	22.08	0.62
10	20350	1750	Q16	25	HIGH	21.12	22.28	1.16
10	20350	1750	Q16	50	LOW	20.65	21.91	1.26
10	20175	1732.5	QPSK	1	LOW	21.52	22.01	0.49
10	20175	1732.5	QPSK	1	MID	21.17	22.33	1.16
10	20175	1732.5	QPSK	1	HIGH	21.31	21.99	0.68
10	20175	1732.5	QPSK	25	LOW	20.69	22.46	1.77
10	20175	1732.5	QPSK	25	MID	21.31	22.14	0.83
10	20175	1732.5	QPSK	25	HIGH	21.11	22.59	1.48
10	20175	1732.5	QPSK	50	LOW	20.72	22.2	1.48
10	20175	1732.5	Q16	1	LOW	20.72	22.21	1.49
10	20175	1732.5	Q16	1	MID	20.62	22.34	1.72
10	20175	1732.5	Q16	1	HIGH	21.23	21.66	0.43
10	20175	1732.5	Q16	25	LOW	20.8	22	1.2
10	20175	1732.5	Q16	25	MID	21.43	22.02	0.59
10	20175	1732.5	Q16	25	HIGH	20.67	22.4	1.73
10	20175	1732.5	Q16	50	LOW	21.14	21.68	0.54
15	20025	1717.5	QPSK	1	LOW	20.7	21.64	0.94
15	20025	1717.5	QPSK	1	MID	20.81	22.07	1.26
15	20025	1717.5	QPSK	1	HIGH	21.49	22.14	0.65
15	20025	1717.5	QPSK	36	LOW	20.61	21.7	1.09
15	20025	1717.5	QPSK	36	MID	20.65	22.35	1.7
15	20025	1717.5	QPSK	36	HIGH	20.65	22.37	1.72
15	20025	1717.5	QPSK	75	LOW	21.51	22.47	0.96
15	20025	1717.5	Q16	1	LOW	20.77	22.15	1.38
15	20025	1717.5	Q16	1	MID	21.51	22.07	0.56
15	20025	1717.5	Q16	1	HIGH	20.94	21.81	0.87
15	20025	1717.5	Q16	36	LOW	20.67	22.5	1.83
15	20025	1717.5	Q16	36	MID	21.41	22.44	1.03
15	20025	1717.5	Q16	36	HIGH	20.89	22.04	1.15
15	20025	1717.5	Q16	75	LOW	21.5	22.41	0.91
15	20325	1747.5	QPSK	1	LOW	20.82	21.97	1.15
15	20325	1747.5	QPSK	1	MID	20.93	22.39	1.46

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
15	20325	1747.5	QPSK	1	HIGH	20.92	22.19	1.27
15	20325	1747.5	QPSK	36	LOW	21.44	22.03	0.59
15	20325	1747.5	QPSK	36	MID	20.9	22.56	1.66
15	20325	1747.5	QPSK	36	HIGH	20.93	21.72	0.79
15	20325	1747.5	QPSK	75	LOW	21.46	22.48	1.02
15	20325	1747.5	Q16	1	LOW	21.2	21.82	0.62
15	20325	1747.5	Q16	1	MID	20.94	22.11	1.17
15	20325	1747.5	Q16	1	HIGH	20.75	21.95	1.2
15	20325	1747.5	Q16	36	LOW	21.52	22.14	0.62
15	20325	1747.5	Q16	36	MID	20.68	22.53	1.85
15	20325	1747.5	Q16	36	HIGH	21.24	21.88	0.64
15	20325	1747.5	Q16	75	LOW	20.97	22.11	1.14
15	20175	1732.5	QPSK	1	LOW	20.93	22.52	1.59
15	20175	1732.5	QPSK	1	MID	21	21.84	0.84
15	20175	1732.5	QPSK	1	HIGH	21.19	22.44	1.25
15	20175	1732.5	QPSK	36	LOW	21.5	22.27	0.77
15	20175	1732.5	QPSK	36	MID	21.55	21.97	0.42
15	20175	1732.5	QPSK	36	HIGH	21.42	22.27	0.85
15	20175	1732.5	QPSK	75	LOW	20.91	22.16	1.25
15	20175	1732.5	Q16	1	LOW	20.77	21.61	0.84
15	20175	1732.5	Q16	1	MID	21.41	22.19	0.78
15	20175	1732.5	Q16	1	HIGH	20.64	21.85	1.21
15	20175	1732.5	Q16	36	LOW	20.83	22.09	1.26
15	20175	1732.5	Q16	36	MID	21.44	22.32	0.88
15	20175	1732.5	Q16	36	HIGH	20.76	22.4	1.64
15	20175	1732.5	Q16	75	LOW	21.46	21.85	0.39
20	20050	1720	QPSK	1	LOW	21.41	22.54	1.13
20	20050	1720	QPSK	1	MID	21.32	22.32	1
20	20050	1720	QPSK	1	HIGH	20.83	22.57	1.74
20	20050	1720	QPSK	50	LOW	21.27	22.34	1.07
20	20050	1720	QPSK	50	MID	21.14	22.55	1.41
20	20050	1720	QPSK	50	HIGH	20.95	22.4	1.45
20	20050	1720	QPSK	100	LOW	20.71	22.28	1.57
20	20050	1720	Q16	1	LOW	20.62	22.39	1.77
20	20050	1720	Q16	1	MID	20.83	21.8	0.97
20	20050	1720	Q16	1	HIGH	21.34	22.1	0.76
20	20050	1720	Q16	50	LOW	20.96	22.12	1.16

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
20	20050	1720	Q16	50	MID	21	21.63	0.63
20	20050	1720	Q16	50	HIGH	20.7	21.67	0.97
20	20050	1720	Q16	100	LOW	20.69	21.62	0.93
20	20300	1745	QPSK	1	LOW	21.49	22.33	0.84
20	20300	1745	QPSK	1	MID	21.07	21.99	0.92
20	20300	1745	QPSK	1	HIGH	21.31	22.38	1.07
20	20300	1745	QPSK	50	LOW	20.81	21.8	0.99
20	20300	1745	QPSK	50	MID	21.25	22.23	0.98
20	20300	1745	QPSK	50	HIGH	21.41	21.61	0.2
20	20300	1745	QPSK	100	LOW	20.77	22.07	1.3
20	20300	1745	Q16	1	LOW	20.79	21.62	0.83
20	20300	1745	Q16	1	MID	20.67	22.34	1.67
20	20300	1745	Q16	1	HIGH	21.4	22.45	1.05
20	20300	1745	Q16	50	LOW	20.7	22.26	1.56
20	20300	1745	Q16	50	MID	20.94	21.63	0.69
20	20300	1745	Q16	50	HIGH	21.53	21.91	0.38
20	20300	1745	Q16	100	LOW	21.21	22.26	1.05
20	20175	1732.5	QPSK	1	LOW	20.86	21.93	1.07
20	20175	1732.5	QPSK	1	MID	21.1	21.62	0.52
20	20175	1732.5	QPSK	1	HIGH	21.33	22.13	0.8
20	20175	1732.5	QPSK	50	LOW	21.44	22.27	0.83
20	20175	1732.5	QPSK	50	MID	21.52	21.87	0.35
20	20175	1732.5	QPSK	50	HIGH	21	22.04	1.04
20	20175	1732.5	QPSK	100	LOW	20.87	22.26	1.39
20	20175	1732.5	Q16	1	LOW	20.63	22.15	1.52
20	20175	1732.5	Q16	1	MID	21.36	22.44	1.08
20	20175	1732.5	Q16	1	HIGH	20.94	22.43	1.49
20	20175	1732.5	Q16	50	LOW	20.81	21.83	1.02
20	20175	1732.5	Q16	50	MID	20.72	22.05	1.33
20	20175	1732.5	Q16	50	HIGH	21.37	21.7	0.33
20	20175	1732.5	Q16	100	LOW	21.56	22.57	1.01

BAND 7:

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
5	20775	2502.5	QPSK	1	LOW	20.72	22.57	1.85
5	20775	2502.5	QPSK	1	MID	20.47	21.95	1.48
5	20775	2502.5	QPSK	1	HIGH	20.86	22.01	1.15
5	20775	2502.5	QPSK	12	LOW	20.88	22.64	1.76
5	20775	2502.5	QPSK	12	MID	20.31	22.12	1.81
5	20775	2502.5	QPSK	12	HIGH	20.24	22.18	1.94
5	20775	2502.5	QPSK	25	LOW	21.04	22.41	1.37
5	20775	2502.5	Q16	1	LOW	20.67	21.96	1.29
5	20775	2502.5	Q16	1	MID	20.56	22.68	2.12
5	20775	2502.5	Q16	1	HIGH	20.41	22.05	1.64
5	20775	2502.5	Q16	12	LOW	20.4	22.11	1.71
5	20775	2502.5	Q16	12	MID	20.8	21.94	1.14
5	20775	2502.5	Q16	12	HIGH	20.45	22.22	1.77
5	20775	2502.5	Q16	25	LOW	21.01	22.05	1.04
5	21425	2567.5	QPSK	1	LOW	20.44	22.42	1.98
5	21425	2567.5	QPSK	1	MID	20.85	22.56	1.71
5	21425	2567.5	QPSK	1	HIGH	20.62	21.89	1.27
5	21425	2567.5	QPSK	12	LOW	20.89	22.39	1.5
5	21425	2567.5	QPSK	12	MID	20.52	21.96	1.44
5	21425	2567.5	QPSK	12	HIGH	20.94	21.96	1.02
5	21425	2567.5	QPSK	25	LOW	20.31	22.23	1.92
5	21425	2567.5	Q16	1	LOW	20.33	22.08	1.75
5	21425	2567.5	Q16	1	MID	20.32	21.95	1.63
5	21425	2567.5	Q16	1	HIGH	20.73	22.29	1.56
5	21425	2567.5	Q16	12	LOW	20.42	22.17	1.75
5	21425	2567.5	Q16	12	MID	20.85	22.52	1.67
5	21425	2567.5	Q16	12	HIGH	20.59	22.31	1.72
5	21425	2567.5	Q16	25	LOW	21.11	22.2	1.09
5	21100	2535	QPSK	1	LOW	21.16	22.33	1.17
5	21100	2535	QPSK	1	MID	20.92	22.22	1.3
5	21100	2535	QPSK	1	HIGH	20.97	22.03	1.06
5	21100	2535	QPSK	12	LOW	21.03	22.34	1.31
5	21100	2535	QPSK	12	MID	21.12	22.17	1.05
5	21100	2535	QPSK	12	HIGH	20.93	21.72	0.79
5	21100	2535	QPSK	25	LOW	20.26	21.86	1.6
5	21100	2535	QPSK	1	LOW	20.22	22.62	2.4
5	21100	2535	QPSK	1	MID	21.03	22.68	1.65

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
5	21100	2535	QPSK	1	HIGH	20.64	22.32	1.68
5	21100	2535	QPSK	12	LOW	20.49	21.84	1.35
5	21100	2535	QPSK	12	MID	21.15	22.24	1.09
5	21100	2535	QPSK	12	HIGH	20.98	22.27	1.29
5	21100	2535	QPSK	25	LOW	20.56	22.07	1.51
10	20800	2505	QPSK	1	LOW	20.65	21.97	1.32
10	20800	2505	QPSK	1	MID	20.78	22.04	1.26
10	20800	2505	QPSK	1	HIGH	20.29	21.74	1.45
10	20800	2505	QPSK	25	LOW	21.09	22.39	1.3
10	20800	2505	QPSK	25	MID	20.33	22.55	2.22
10	20800	2505	QPSK	25	HIGH	21.12	22.57	1.45
10	20800	2505	QPSK	50	LOW	20.2	21.77	1.57
10	20800	2505	Q16	1	LOW	20.57	22.4	1.83
10	20800	2505	Q16	1	MID	20.41	21.9	1.49
10	20800	2505	Q16	1	HIGH	20.93	21.89	0.96
10	20800	2505	Q16	25	LOW	20.88	22.5	1.62
10	20800	2505	Q16	25	MID	20.45	21.75	1.3
10	20800	2505	Q16	25	HIGH	20.89	22.14	1.25
10	20800	2505	Q16	50	LOW	21.12	22.58	1.46
10	21400	2565	QPSK	1	LOW	20.66	22.4	1.74
10	21400	2565	QPSK	1	MID	21.13	22.59	1.46
10	21400	2565	QPSK	1	HIGH	21.03	22.16	1.13
10	21400	2565	QPSK	25	LOW	20.7	22.34	1.64
10	21400	2565	QPSK	25	MID	20.22	21.81	1.59
10	21400	2565	QPSK	25	HIGH	20.56	22.2	1.64
10	21400	2565	QPSK	50	LOW	20.55	22.31	1.76
10	21400	2565	QPSK	1	LOW	21.08	22.08	1
10	21400	2565	QPSK	1	MID	20.7	22.61	1.91
10	21400	2565	QPSK	1	HIGH	21.17	22	0.83
10	21400	2565	Q16	25	LOW	20.22	22.48	2.26
10	21400	2565	Q16	25	MID	20.76	22.62	1.86
10	21400	2565	Q16	25	HIGH	20.39	21.8	1.41
10	21400	2565	Q16	50	LOW	20.71	21.83	1.12
10	21100	2535	QPSK	1	LOW	20.91	22.45	1.54
10	21100	2535	QPSK	1	MID	20.57	22.67	2.1
10	21100	2535	QPSK	1	HIGH	20.44	22.68	2.24
10	21100	2535	QPSK	25	LOW	20.28	22.3	2.02
10	21100	2535	QPSK	25	MID	21.11	21.76	0.65

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
10	21100	2535	QPSK	25	HIGH	20.22	22.1	1.88
10	21100	2535	QPSK	50	LOW	21.2	22.6	1.4
10	21100	2535	QPSK	1	LOW	21.05	21.79	0.74
10	21100	2535	QPSK	1	MID	21.08	21.83	0.75
10	21100	2535	QPSK	1	HIGH	20.59	21.75	1.16
10	21100	2535	Q16	25	LOW	21.08	22.1	1.02
10	21100	2535	Q16	25	MID	20.81	22.37	1.56
10	21100	2535	Q16	25	HIGH	20.25	22.67	2.42
10	21100	2535	Q16	50	LOW	20.33	22.24	1.91
15	20825	2507.5	QPSK	1	LOW	20.66	22.19	1.53
15	20825	2507.5	QPSK	1	MID	20.65	22.47	1.82
15	20825	2507.5	QPSK	1	HIGH	20.49	21.78	1.29
15	20825	2507.5	QPSK	36	LOW	20.69	22.07	1.38
15	20825	2507.5	QPSK	36	MID	20.23	22.47	2.24
15	20825	2507.5	QPSK	36	HIGH	20.9	21.74	0.84
15	20825	2507.5	QPSK	75	LOW	20.89	22.37	1.48
15	20825	2507.5	Q16	1	LOW	20.57	22.43	1.86
15	20825	2507.5	Q16	1	MID	20.61	22.1	1.49
15	20825	2507.5	Q16	1	HIGH	21.02	22.54	1.52
15	20825	2507.5	Q16	36	LOW	20.62	22.69	2.07
15	20825	2507.5	Q16	36	MID	20.36	22.05	1.69
15	20825	2507.5	Q16	36	HIGH	20.6	22.39	1.79
15	20825	2507.5	Q16	75	LOW	20.96	22.1	1.14
15	21375	2562.5	QPSK	1	LOW	20.63	22.18	1.55
15	21375	2562.5	QPSK	1	MID	20.26	22.4	2.14
15	21375	2562.5	QPSK	1	HIGH	20.86	22.41	1.55
15	21375	2562.5	QPSK	36	LOW	21	22.58	1.58
15	21375	2562.5	QPSK	36	MID	20.78	22.51	1.73
15	21375	2562.5	QPSK	36	HIGH	20.84	22.5	1.66
15	21375	2562.5	QPSK	75	LOW	20.55	22.18	1.63
15	21375	2562.5	Q16	1	LOW	20.99	22.48	1.49
15	21375	2562.5	Q16	1	MID	20.52	21.87	1.35
15	21375	2562.5	Q16	1	HIGH	21.08	22.34	1.26
15	21375	2562.5	Q16	36	LOW	20.68	22.25	1.57
15	21375	2562.5	Q16	36	MID	20.28	22.27	1.99
15	21375	2562.5	Q16	36	HIGH	20.73	21.85	1.12
15	21375	2562.5	Q16	75	LOW	20.62	22.02	1.4
15	21100	2535	QPSK	1	LOW	20.63	22.37	1.74

Report No.: FCC17010035A-5

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
15	21100	2535	QPSK	1	MID	21.07	22.17	1.1
15	21100	2535	QPSK	1	HIGH	21.06	22.04	0.98
15	21100	2535	QPSK	36	LOW	20.46	22.55	2.09
15	21100	2535	QPSK	36	MID	20.93	22.28	1.35
15	21100	2535	QPSK	36	HIGH	20.39	22.25	1.86
15	21100	2535	QPSK	75	LOW	20.42	22.05	1.63
15	21100	2535	Q16	1	LOW	21.15	21.9	0.75
15	21100	2535	Q16	1	MID	20.39	22	1.61
15	21100	2535	Q16	1	HIGH	21.19	21.98	0.79
15	21100	2535	Q16	36	LOW	20.96	22.31	1.35
15	21100	2535	Q16	36	MID	20.7	22.44	1.74
15	21100	2535	Q16	36	HIGH	21	22.37	1.37
15	21100	2535	Q16	75	LOW	20.37	22.23	1.86
20	20850	2510	QPSK	1	LOW	20.95	21.86	0.91
20	20850	2510	QPSK	1	MID	21.19	21.83	0.64
20	20850	2510	QPSK	1	HIGH	20.52	21.98	1.46
20	20850	2510	QPSK	50	LOW	20.4	22.38	1.98
20	20850	2510	QPSK	50	MID	20.24	21.88	1.64
20	20850	2510	QPSK	50	HIGH	21.14	22.38	1.24
20	20850	2510	QPSK	100	LOW	20.52	22.16	1.64
20	20850	2510	Q16	1	LOW	20.28	21.94	1.66
20	20850	2510	Q16	1	MID	20.71	22.57	1.86
20	20850	2510	Q16	1	HIGH	21.12	22.18	1.06
20	20850	2510	Q16	50	LOW	20.47	21.82	1.35
20	20850	2510	Q16	50	MID	20.3	22.21	1.91
20	20850	2510	Q16	50	HIGH	20.23	22.5	2.27
20	20850	2510	Q16	100	LOW	20.67	22.59	1.92
20	21100	2535	QPSK	1	LOW	21.17	22.45	1.28
20	21100	2535	QPSK	1	MID	20.98	22.65	1.67
20	21100	2535	QPSK	1	HIGH	20.45	22.18	1.73
20	21100	2535	QPSK	50	LOW	20.72	22.12	1.4
20	21100	2535	QPSK	50	MID	20.67	22.3	1.63
20	21100	2535	QPSK	50	HIGH	20.84	21.77	0.93
20	21100	2535	QPSK	100	LOW	21.17	21.91	0.74
20	21100	2535	Q16	1	LOW	21.07	21.89	0.82
20	21100	2535	Q16	1	MID	20.22	22.13	1.91
20	21100	2535	Q16	1	HIGH	20.67	22.18	1.51
20	21100	2535	Q16	50	LOW	21	22.58	1.58

Report No.: FCC17010035A-5

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Average (dBm)	Peak (dBm)	PAPR (dB)
20	21100	2535	Q16	50	MID	20.97	22.37	1.4
20	21100	2535	Q16	50	HIGH	20.8	21.71	0.91
20	21100	2535	Q16	100	LOW	21.17	22.62	1.45
20	21350	2560	QPSK	1	LOW	20.21	21.82	1.61
20	21350	2560	QPSK	1	MID	20.97	22.56	1.59
20	21350	2560	QPSK	1	HIGH	20.43	22.44	2.01
20	21350	2560	QPSK	50	LOW	20.92	22.59	1.67
20	21350	2560	QPSK	50	MID	21	21.93	0.93
20	21350	2560	QPSK	50	HIGH	20.58	22.08	1.5
20	21350	2560	QPSK	100	LOW	20.28	21.7	1.42
20	21350	2560	Q16	1	LOW	21.12	22.38	1.26
20	21350	2560	Q16	1	MID	20.99	21.74	0.75
20	21350	2560	Q16	1	HIGH	20.44	22.6	2.16
20	21350	2560	Q16	50	LOW	20.62	21.76	1.14
20	21350	2560	Q16	50	MID	20.43	21.99	1.56
20	21350	2560	Q16	50	HIGH	21.08	22.34	1.26
20	21350	2560	Q16	100	LOW	20.66	22.54	1.88

SPURIOUS EMISSION (Conducted and Radiated)

5.1 Measurement Result (Pre-measurement)

GSM850:

Test Channel	BW(MHz)	UL Channel	Frequency(MHz)	Judgment
Low Range	0.2	128	824.2	Pass
Middle Range	0.2	190	836.6	Pass
High Range	0.2	251	848.8	Pass

PCS 1900：

Test Channel	BW(MHz)	UL Channel	Frequency(MHz)	Judgment
Low Range	0.2	512	1850.2	Pass
Middle Range	0.2	661	1880.0	Pass
High Range	0.2	810	1909.8	Pass

UTRA BANDS

BAND 2:

Test Channel	BW(MHz)	UL Channel	Frequency(MHz)	Judgment
Low Range	5	9262	1852.4	Pass
Middle Range	5	9400	1880.0	Pass
High Range	5	9538	1907.6	Pass

BAND 5:

Test Channel	BW(MHz)	UL Channel	Frequency(MHz)	Judgment
Low Range	5	4132	826.4	Pass
Middle Range	5	4182	836.4	Pass
High Range	5	4233	846.6	Pass

E-UTRA BANDS

BAND 2:

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
1.4	18607	1850.7	QPSK	6	LOW	Pass
1.4	18607	1850.7	Q16	6	LOW	Pass
1.4	18900	1880	QPSK	6	LOW	Pass
1.4	18900	1880	Q16	6	LOW	Pass
1.4	19193	1909.3	QPSK	6	LOW	Pass
1.4	19193	1909.3	Q16	6	LOW	Pass
3	18615	1851.5	QPSK	15	LOW	Pass
3	18615	1851.5	Q16	15	LOW	Pass
3	18900	1880	QPSK	15	LOW	Pass
3	18900	1880	Q16	15	LOW	Pass
3	19185	1908.5	QPSK	15	LOW	Pass
3	19185	1908.5	Q16	15	LOW	Pass
5	18625	1852.5	QPSK	25	LOW	Pass
5	18625	1852.5	Q16	25	LOW	Pass
5	18900	1880	QPSK	25	LOW	Pass
5	18900	1880	Q16	25	LOW	Pass
5	19175	1907.5	QPSK	25	LOW	Pass
5	19175	1907.5	Q16	25	LOW	Pass
10	18650	1855	QPSK	50	LOW	Pass
10	18650	1855	Q16	50	LOW	Pass
10	18900	1880	QPSK	50	LOW	Pass
10	18900	1880	Q16	50	LOW	Pass
10	19150	1905	QPSK	50	LOW	Pass
10	19150	1905	Q16	50	LOW	Pass
15	18675	1857.5	QPSK	75	LOW	Pass
15	18675	1857.5	Q16	75	LOW	Pass
15	18900	1880	QPSK	75	LOW	Pass
15	18900	1880	Q16	75	LOW	Pass
15	19125	1902.5	QPSK	75	LOW	Pass
15	19125	1902.5	Q16	75	LOW	Pass
20	18700	1860	QPSK	100	LOW	Pass
20	18700	1860	Q16	100	LOW	Pass
20	18900	1880	QPSK	100	LOW	Pass
20	18900	1880	Q16	100	LOW	Pass
20	19100	1900	QPSK	100	LOW	Pass

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
20	19100	1900	Q16	100	LOW	Pass

BAND 4:

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
1.4	19957	1710.7	QPSK	6	LOW	Pass
1.4	19957	1710.7	Q16	6	LOW	Pass
1.4	20393	1754.3	QPSK	6	LOW	Pass
1.4	20393	1754.3	Q16	6	LOW	Pass
1.4	20175	1732.5	QPSK	6	LOW	Pass
1.4	20175	1732.5	Q16	6	LOW	Pass
3	19965	1711.5	QPSK	15	LOW	Pass
3	19965	1711.5	Q16	15	LOW	Pass
3	20385	1753.5	QPSK	15	LOW	Pass
3	20385	1753.5	Q16	15	LOW	Pass
3	20175	1732.5	QPSK	15	LOW	Pass
3	20175	1732.5	Q16	15	LOW	Pass
5	19975	1712.5	QPSK	25	LOW	Pass
5	19975	1712.5	Q16	25	LOW	Pass
5	20375	1752.5	QPSK	25	LOW	Pass
5	20375	1752.5	Q16	25	LOW	Pass
5	20175	1732.5	QPSK	25	LOW	Pass
5	20175	1732.5	Q16	25	LOW	Pass
10	20000	1715	QPSK	50	LOW	Pass
10	20000	1715	Q16	50	LOW	Pass
10	20350	1750	QPSK	50	LOW	Pass
10	20350	1750	Q16	50	LOW	Pass
10	20175	1732.5	QPSK	50	LOW	Pass
10	20175	1732.5	Q16	50	LOW	Pass
15	20025	1717.5	QPSK	75	LOW	Pass
15	20025	1717.5	Q16	75	LOW	Pass
15	20325	1747.5	QPSK	75	LOW	Pass
15	20325	1747.5	Q16	75	LOW	Pass
15	20175	1732.5	QPSK	75	LOW	Pass
15	20175	1732.5	Q16	75	LOW	Pass
20	20050	1720	QPSK	100	LOW	Pass
20	20050	1720	Q16	100	LOW	Pass
20	20300	1745	QPSK	100	LOW	Pass

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
20	20300	1745	Q16	100	LOW	Pass
20	20175	1732.5	QPSK	100	LOW	Pass
20	20175	1732.5	Q16	100	LOW	Pass
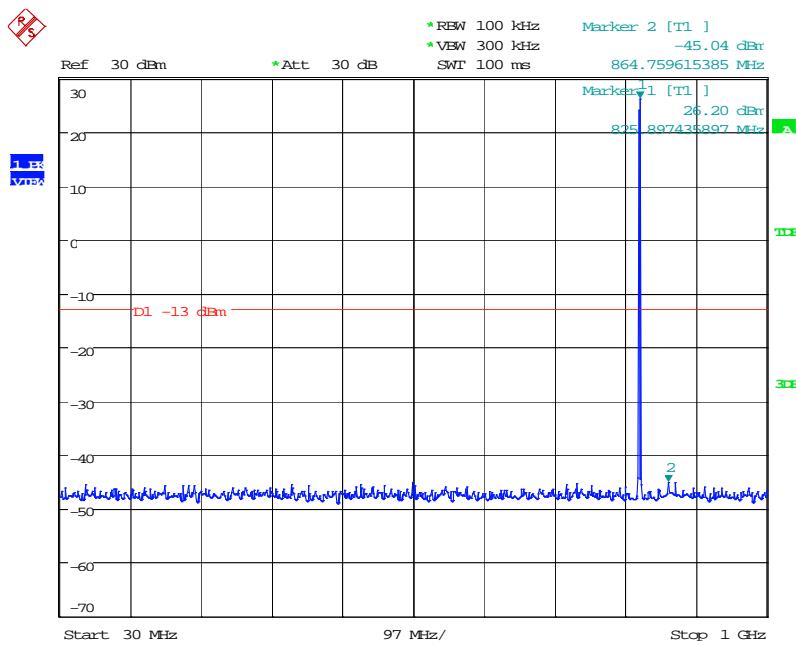
BAND 7:

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
5	20775	2502.5	QPSK	25	LOW	Pass
5	20775	2502.5	Q16	25	LOW	Pass
5	21425	2567.5	QPSK	25	LOW	Pass
5	21425	2567.5	Q16	25	LOW	Pass
5	21100	2535	QPSK	25	LOW	Pass
5	21100	2535	QPSK	25	LOW	Pass
10	20800	2505	QPSK	50	LOW	Pass
10	20800	2505	Q16	50	LOW	Pass
10	21400	2565	QPSK	50	LOW	Pass
10	21400	2565	Q16	50	LOW	Pass
10	21100	2535	QPSK	50	LOW	Pass
10	21100	2535	Q16	50	LOW	Pass
15	20825	2507.5	QPSK	75	LOW	Pass
15	20825	2507.5	Q16	75	LOW	Pass
15	21375	2562.5	QPSK	75	LOW	Pass
15	21375	2562.5	Q16	75	LOW	Pass
15	21100	2535	QPSK	75	LOW	Pass
15	21100	2535	Q16	75	LOW	Pass
20	20850	2510	QPSK	100	LOW	Pass
20	20850	2510	Q16	100	LOW	Pass
20	21350	2560	QPSK	100	LOW	Pass
20	21350	2560	Q16	100	LOW	Pass
20	21100	2535	QPSK	100	LOW	Pass
20	21100	2535	Q16	100	LOW	Pass

Test Plot(s)
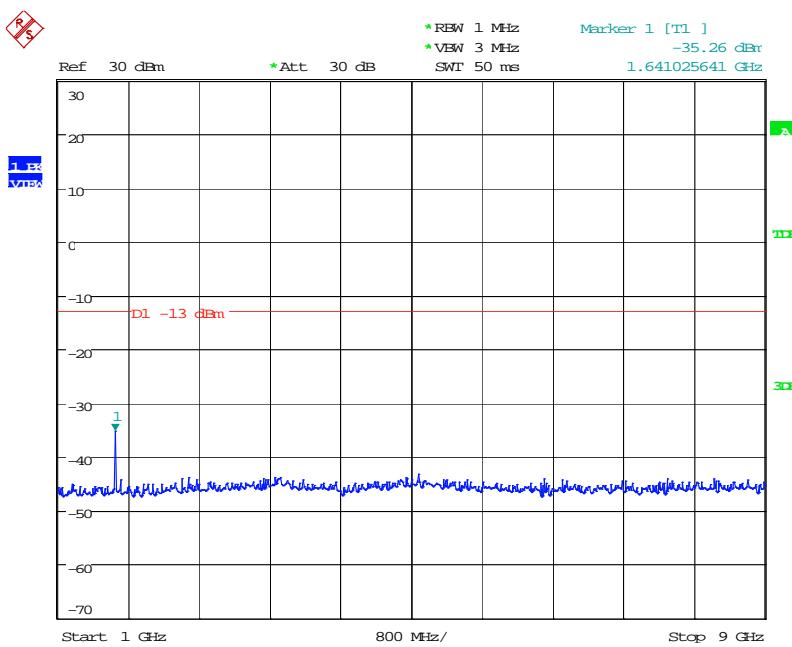
5.1.1 Conducted method

CONDUCTED EMISSION IN GSM850 BAND
Conducted Emission Transmitting Mode CH 128 30MHz – 1GHz
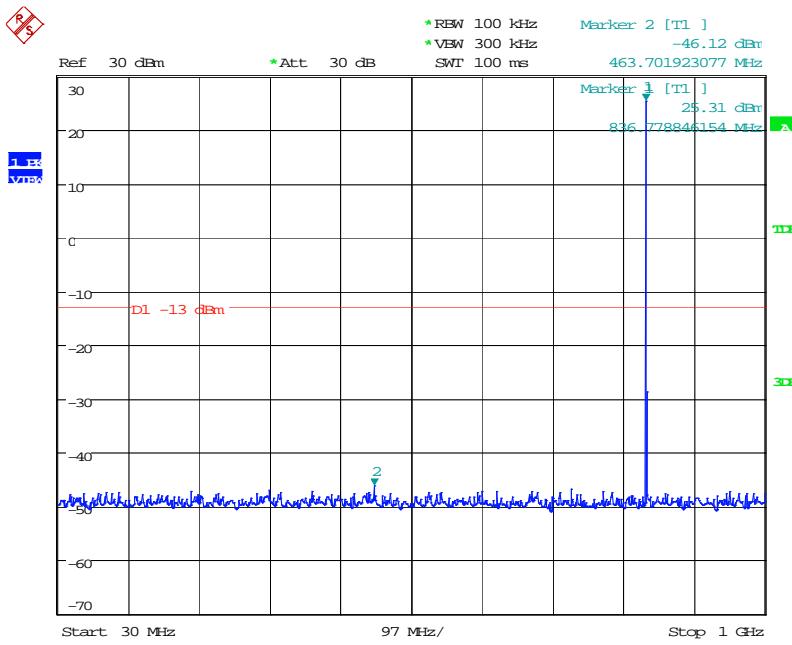
Date: 15.FEB.2017 08:26:39

Conducted Emission Transmitting Mode CH 128 1GHz – 9GHz

```
                                      *RBW 1 MHz         Marker 1 [T1 ]
                                      *VBW 3 MHz                 -35.26 dBm
        Ref  30 dBm        *Att  30 dB  SWT 50 ms        1.641025641 GHz
```
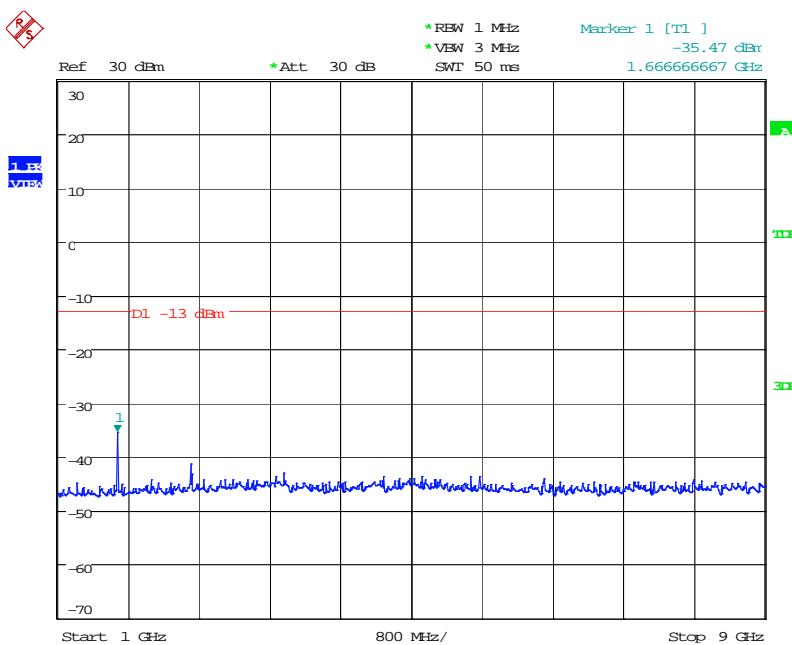
Date: 15.FEB.2017 08:28:39

Conducted Emission Transmitting Mode CH 190 30MHz – 1GHz

```
                                      *RBW 100 kHz      Marker 2 [T1 ]
                                      *VBW 300 kHz              -46.12 dBm
        Ref  30 dBm        *Att  30 dB  SWT 100 ms       463.701923077 MHz
                                                 Marker 1 [T1 ]
                                                         25.31 dBm
                                                 836.778846154 MHz
```

Date: 15.FEB.2017 08:33:31

Report No.: FCC17010035A-5
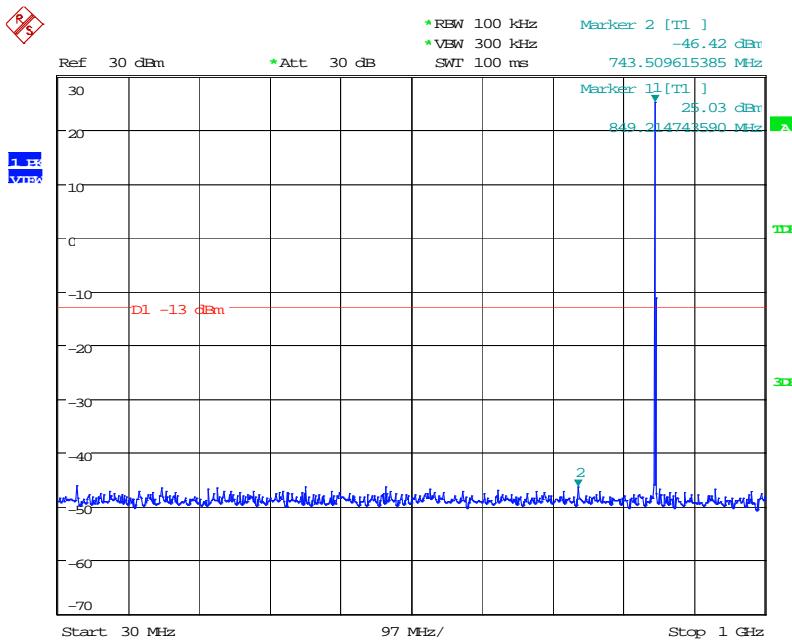
Conducted Emission Transmitting Mode CH 190 1GHz – 9GHz

```
                                        *RBW  1 MHz        Marker 1 [T1 ]
                                        *VBW  3 MHz                 -35.47 dBm
         Ref   30 dBm        *Att   30 dB    SWT  50 ms     1.666666667 GHz
```



```
Start  1 GHz                    800 MHz/                    Stop  9 GHz
```
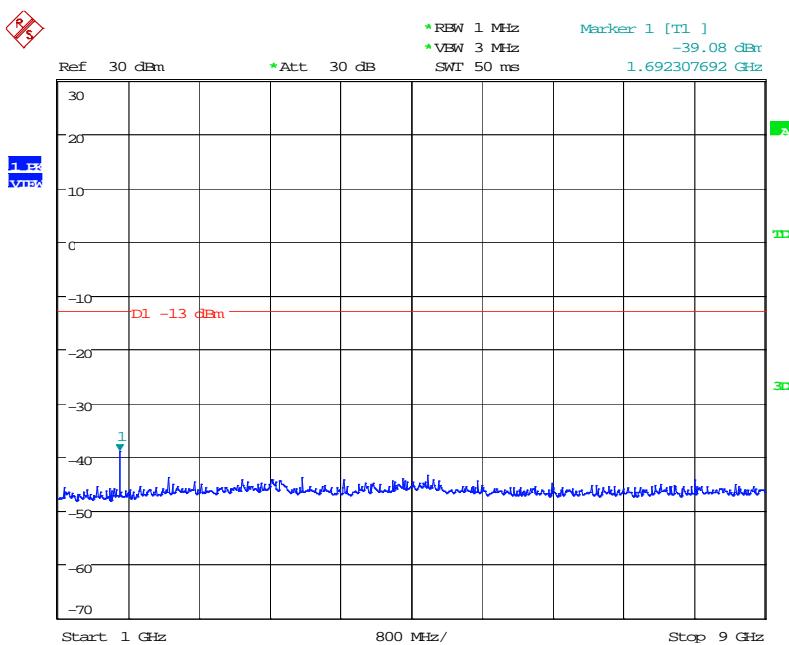
Date: 15.FEB.2017 08:29:32

Conducted Emission Transmitting Mode CH 251 30MHz – 1GHz

```
                                        *RBW  100 kHz      Marker 2 [T1 ]
                                        *VBW  300 kHz               -46.42 dBm
         Ref   30 dBm        *Att   30 dB    SWT  100 ms    743.509615385 MHz
                                                    Marker 11[T1 ]
                                                            25.03 dBm
                                                     849.214743590 MHz
```



```
Start  30 MHz                   97 MHz/                     Stop  1 GHz
```

Date: 15.FEB.2017 08:35:21

Report No.: FCC17010035A-5
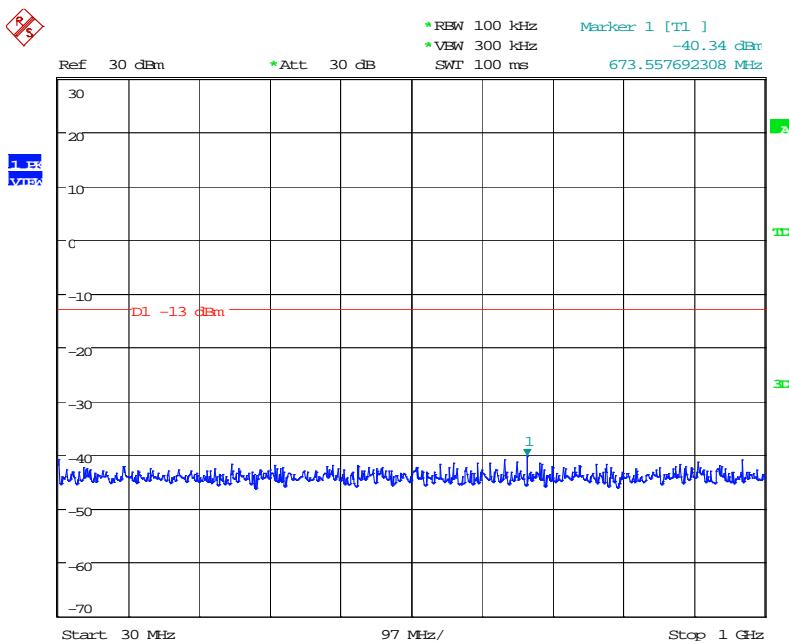
Conducted Emission Transmitting Mode CH 251 1GHz – 9GHz

```
                               *RBW  1 MHz        Marker 1 [T1 ]
                               *VBW  3 MHz               -39.08 dBm
        Ref  30 dBm    *Att  30 dB    SWT  50 ms    1.692307692 GHz
```
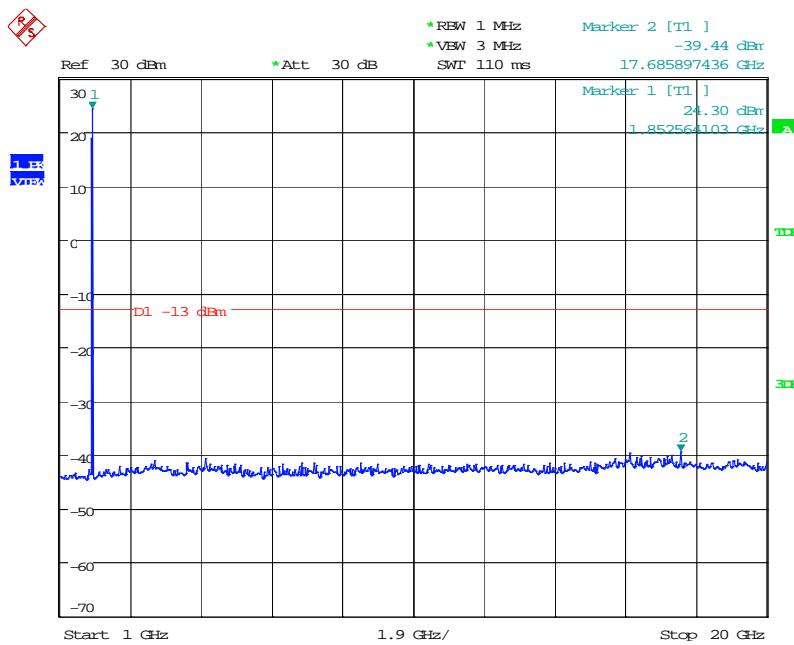
Date: 15.FEB.2017 08:37:06

CONDUCTED EMISSION IN PCS1900 BAND
Conducted Emission Transmitting Mode CH 512 30MHz – 1GHz

```
                               *RBW  100 kHz      Marker 1 [T1 ]
                               *VBW  300 kHz             -40.34 dBm
        Ref  30 dBm    *Att  30 dB    SWT  100 ms   673.557692308 MHz
```

Date: 15.FEB.2017 08:41:01

Report No.: FCC17010035A-5
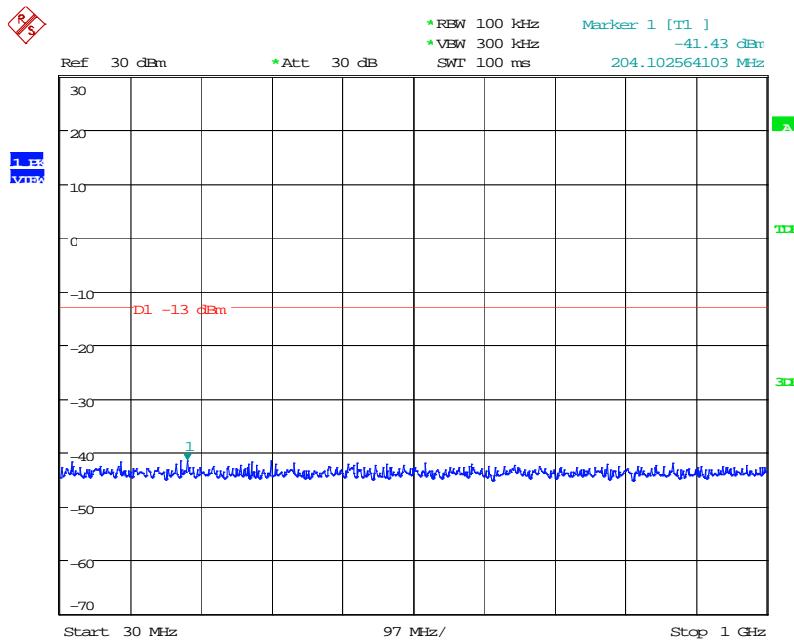
Conducted Emission Transmitting Mode CH 512 1GHz – 20GHz

```
                              *RBW  1 MHz      Marker 2 [T1 ]
                              *VBW  3 MHz             -39.44 dBm
        Ref   30 dBm        *Att   30 dB    SWT 110 ms   17.685897436 GHz
                                            Marker 1 [T1 ]
         30 1                                       24.30 dBm
          20                                   1.852564103 GHz    A
          10
           0
         -10   D1 -13 dBm
         -20
         -30                                            3DB
                                               2
         -40
         -50
         -60
         -70
        Start 1 GHz          1.9 GHz/          Stop  20 GHz
```
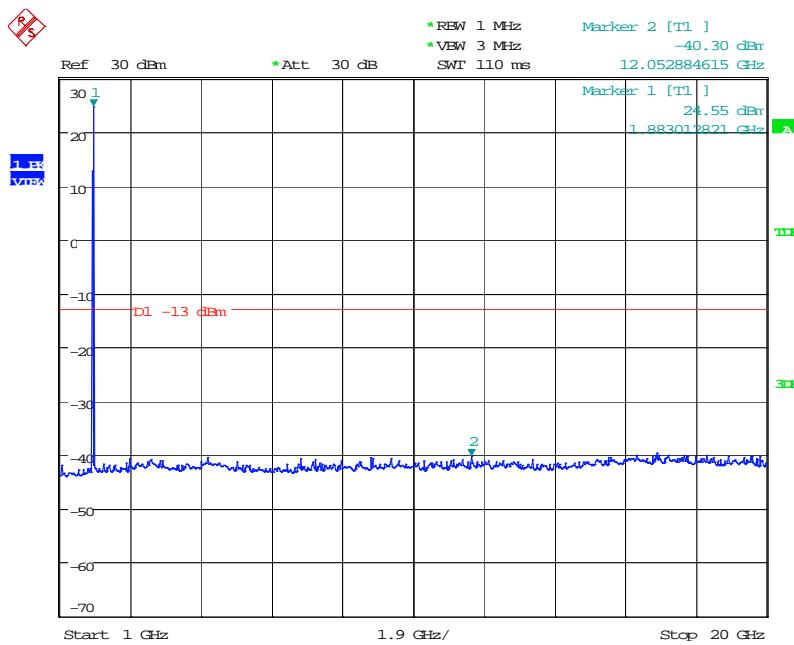
Date: 15.FEB.2017 08:43:02

Conducted Emission Transmitting Mode CH 661 30MHz – 1GHz

```
                              *RBW  100 kHz    Marker 1 [T1 ]
                              *VBW  300 kHz           -41.43 dBm
        Ref   30 dBm        *Att   30 dB    SWT 100 ms   204.102564103 MHz
          30
          20                                                  A
          10
           0
         -10   D1 -13 dBm
         -20
         -30                                            3DB
                 1
         -40
         -50
         -60
         -70
        Start 30 MHz         97 MHz/           Stop  1 GHz
```
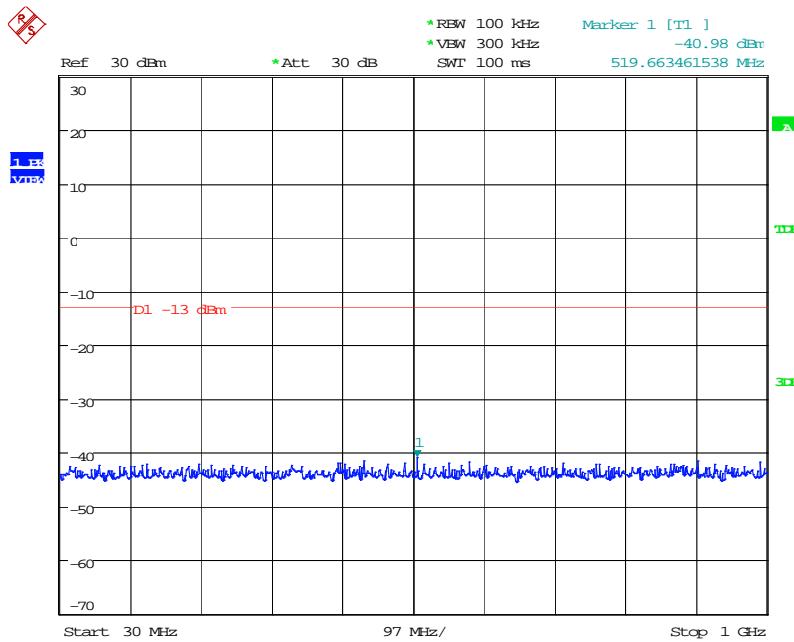
Date: 15.FEB.2017 08:46:40

Conducted Emission Transmitting Mode CH 661 1GHz – 20GHz

```
                                    *RBW 1 MHz        Marker 2 [T1 ]
                                    *VBW 3 MHz               -40.30 dBm
    Ref  30 dBm        *Att  30 dB   SWT 110 ms      12.052884615 GHz

  30  1                                        Marker 1 [T1 ]
  20                                                    24.55 dBm
                                                  1.883012821 GHz
  10
   0
 -10    D1 -13 dBm
 -20
 -30
                                        2
 -40
 -50
 -60
 -70
    Start 1 GHz           1.9 GHz/              Stop 20 GHz
```
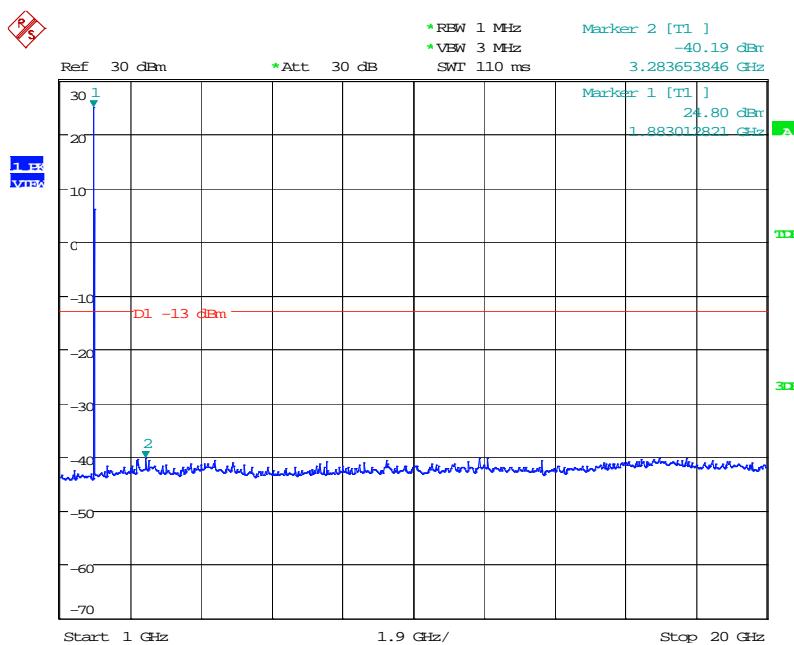
Date: 15.FEB.2017 08:44:56

Conducted Emission Transmitting Mode CH 810 30MHz – 1GHz

```
                                    *RBW 100 kHz       Marker 1 [T1 ]
                                    *VBW 300 kHz             -40.98 dBm
    Ref  30 dBm        *Att  30 dB   SWT 100 ms      519.663461538 MHz

  30
  20
  10
   0
 -10    D1 -13 dBm
 -20
 -30
                                        1
 -40
 -50
 -60
 -70
    Start 30 MHz          97 MHz/              Stop 1 GHz
```

Date: 15.FEB.2017 08:47:32

Report No.: FCC17010035A-5
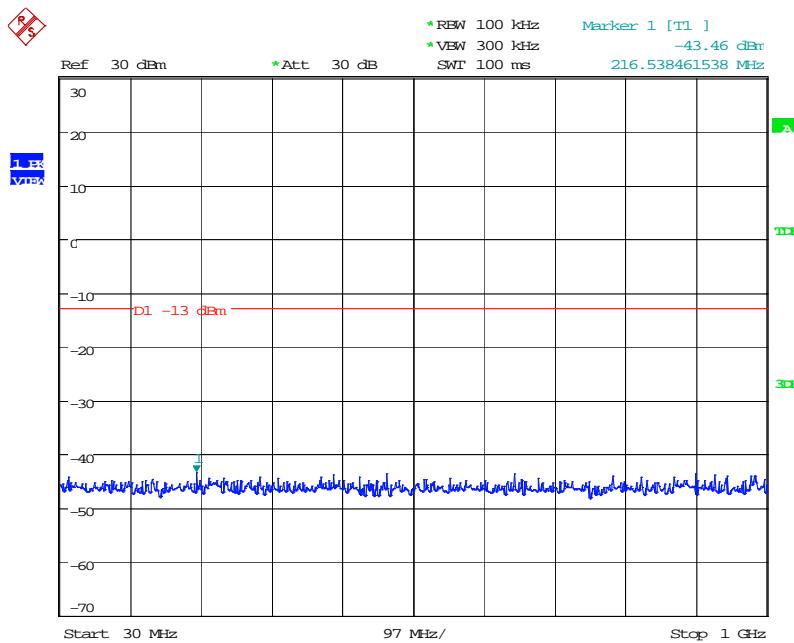
Conducted Emission Transmitting Mode CH 810 1GHz – 20GHz

```
                                    *RBW 1 MHz          Marker 2 [T1 ]
                                    *VBW 3 MHz               -40.19 dBm
        Ref  30 dBm       *Att  30 dB   SWT 110 ms     3.283653846 GHz
                                                 Marker 1 [T1 ]
       30 1                                           24.80 dBm
                                                 1.883012821 GHz    A
       20

       10

        0                                                          TDF

      -10   D1 -13 dBm

      -20

      -30                                                          3DB

      -40      2

      -50

      -60

      -70
       Start 1 GHz             1.9 GHz/           Stop 20 GHz
```

Date: 15.FEB.2017 08:49:00
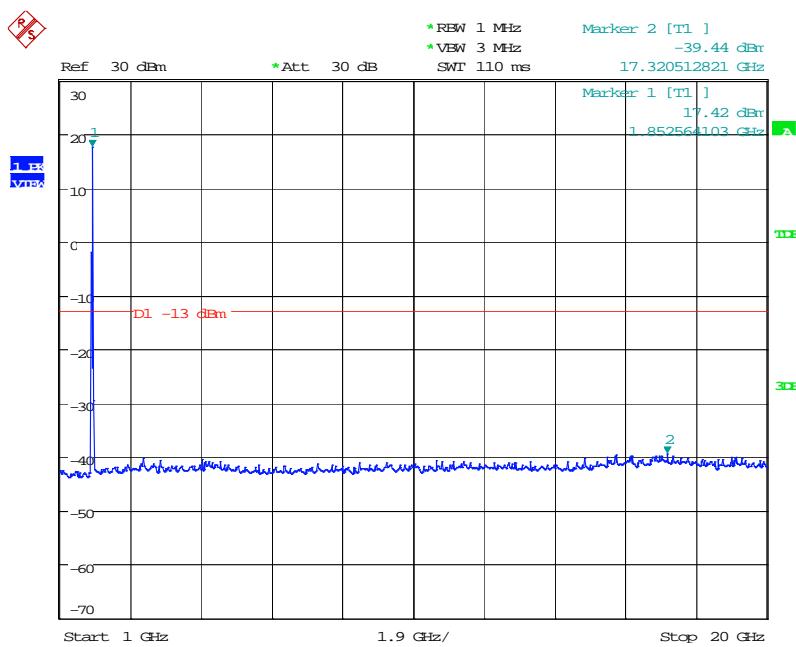
CONDUCTED EMISSION IN WCDMA Band II
Conducted Emission Transmitting Mode CH 9262 30MHz – 1GHz

```
                                    *RBW 100 kHz        Marker 1 [T1 ]
                                    *VBW 300 kHz             -43.46 dBm
        Ref  30 dBm       *Att  30 dB   SWT 100 ms     216.538461538 MHz
       30

       20

       10

        0                                                          TDF

      -10   D1 -13 dBm

      -20

      -30                                                          3DB

      -40        1

      -50

      -60

      -70
       Start 30 MHz            97 MHz/            Stop 1 GHz
```

Date: 15.FEB.2017 09:00:08

Report No.: FCC17010035A-5
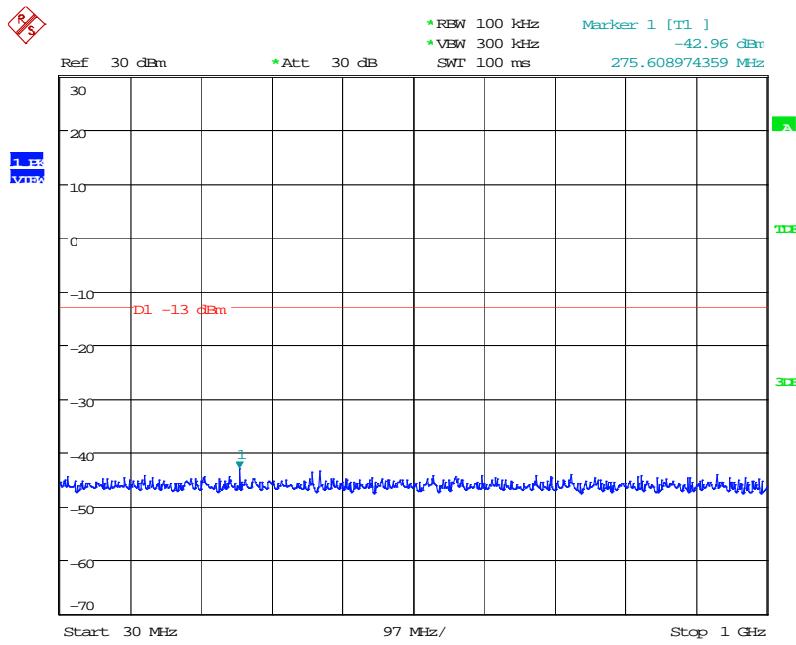
Conducted Emission Transmitting Mode CH 9262 1GHz – 20GHz

	*RBW 1 MHz		Marker 2 [T1]
	*VBW 3 MHz		-39.44 dBm
Ref 30 dBm	*Att 30 dB	SWT 110 ms	17.320512821 GHz

Marker 1 [T1]
17.42 dBm
1.852564103 GHz

D1 -13 dBm

Start 1 GHz   1.9 GHz/   Stop 20 GHz
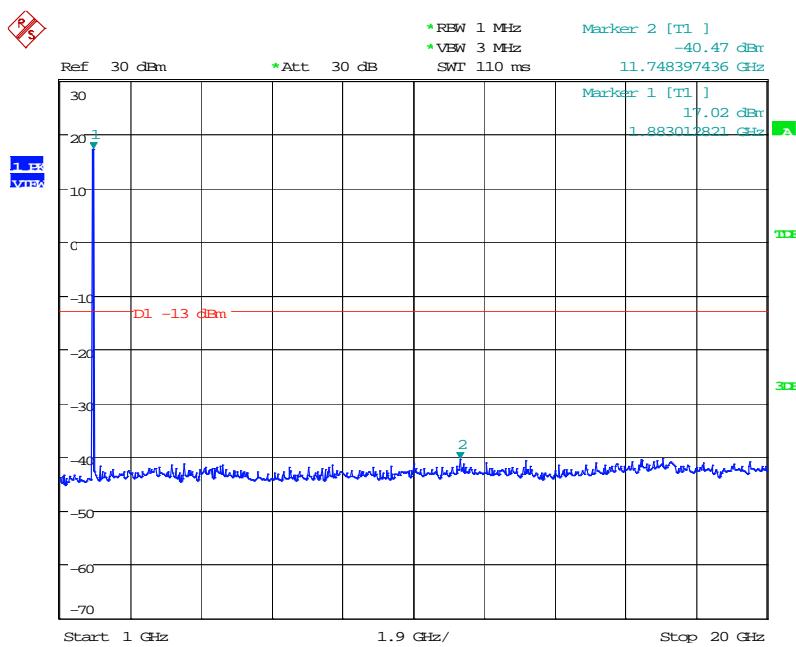
Date: 15.FEB.2017 08:59:01

Conducted Emission Transmitting Mode CH 9400 30MHz – 1GHz

	*RBW 100 kHz		Marker 1 [T1]
	*VBW 300 kHz		-42.96 dBm
Ref 30 dBm	*Att 30 dB	SWT 100 ms	275.608974359 MHz

D1 -13 dBm

Start 30 MHz   97 MHz/   Stop 1 GHz

Date: 15.FEB.2017 09:01:15

Report No.: FCC17010035A-5
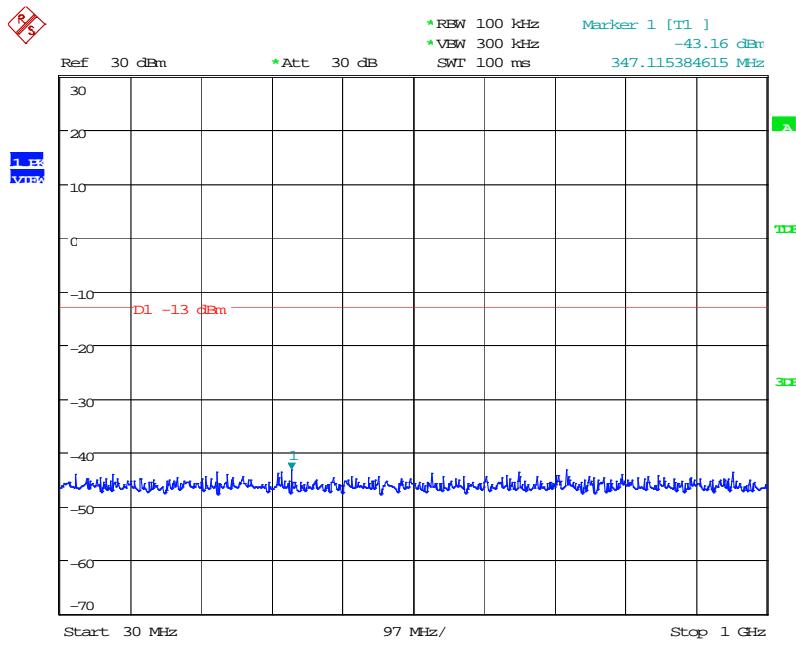
Conducted Emission Transmitting Mode CH 9400 1GHz – 20GHz

```
                                    *RBW  1 MHz        Marker 2 [T1 ]
                                    *VBW  3 MHz                    -40.47 dBm
            Ref   30 dBm        *Att   30 dB    SWT  110 ms    11.748397436 GHz

             30                                           Marker 1 [T1 ]
                                                                  17.02 dBm
             20  1                                         1.883012821 GHz    A

             10

              0                                                              TDF

            -10
         D1 -13 dBm
            -20

            -30                                                              3DB

            -40            2

            -50

            -60

            -70
            Start 1 GHz            1.9 GHz/              Stop  20 GHz
```
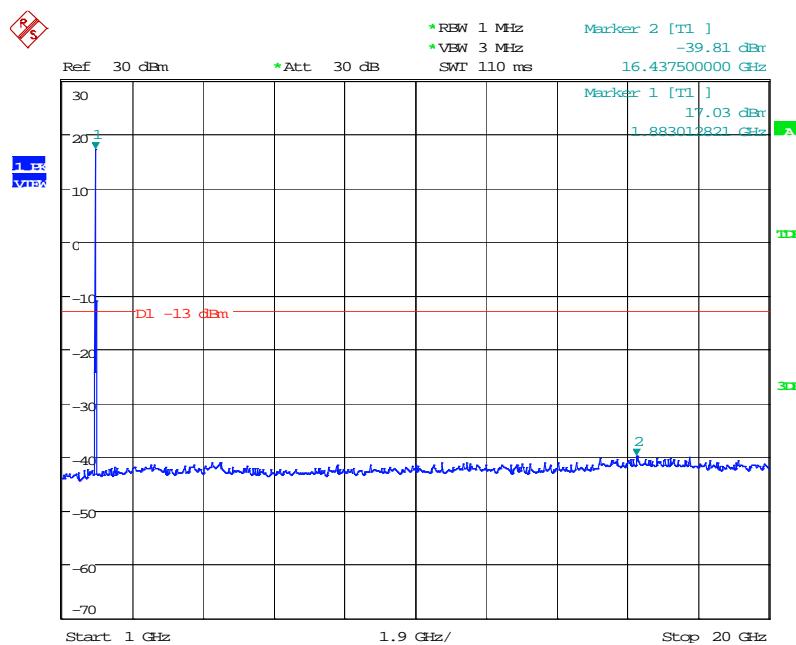
Date: 15.FEB.2017 09:02:34

Conducted Emission Transmitting Mode CH 9538 30MHz – 1GHz

```
                                    *RBW  100 kHz      Marker 1 [T1 ]
                                    *VBW  300 kHz                 -43.16 dBm
            Ref   30 dBm        *Att   30 dB    SWT  100 ms    347.115384615 MHz

             30

             20                                                              A

             10

              0                                                              TDF

            -10
         D1 -13 dBm
            -20

            -30                                                              3DB

            -40       1

            -50

            -60

            -70
            Start 30 MHz           97 MHz/              Stop  1 GHz
```

Date: 15.FEB.2017 09:08:19

Report No.: FCC17010035A-5
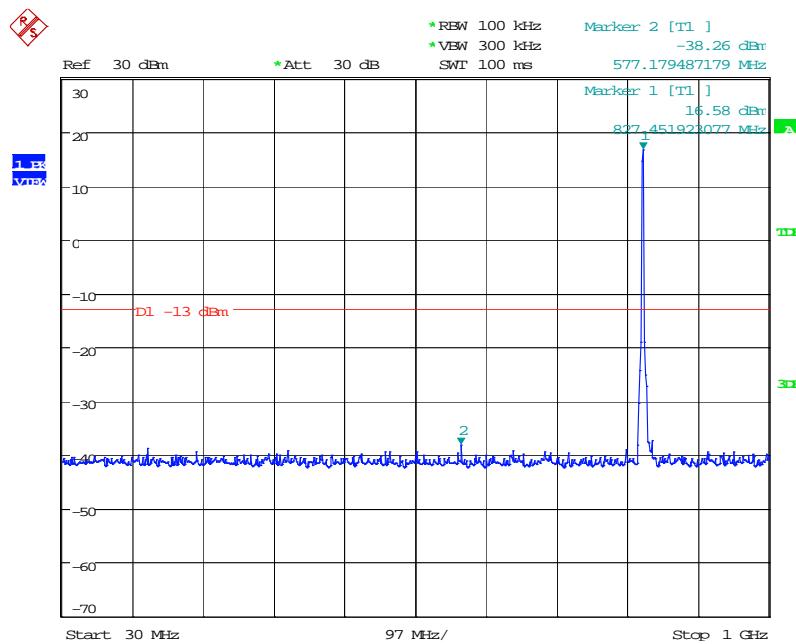
Conducted Emission Transmitting Mode CH 9538 1GHz – 20GHz

```
                              *RBW 1 MHz        Marker 2 [T1 ]
                              *VBW 3 MHz              -39.81 dBm
          Ref   30 dBm        *Att  30 dB   SWT 110 ms    16.437500000 GHz
                                                   Marker 1 [T1 ]
                                                          17.03 dBm
                                                   1.883012821 GHz
```
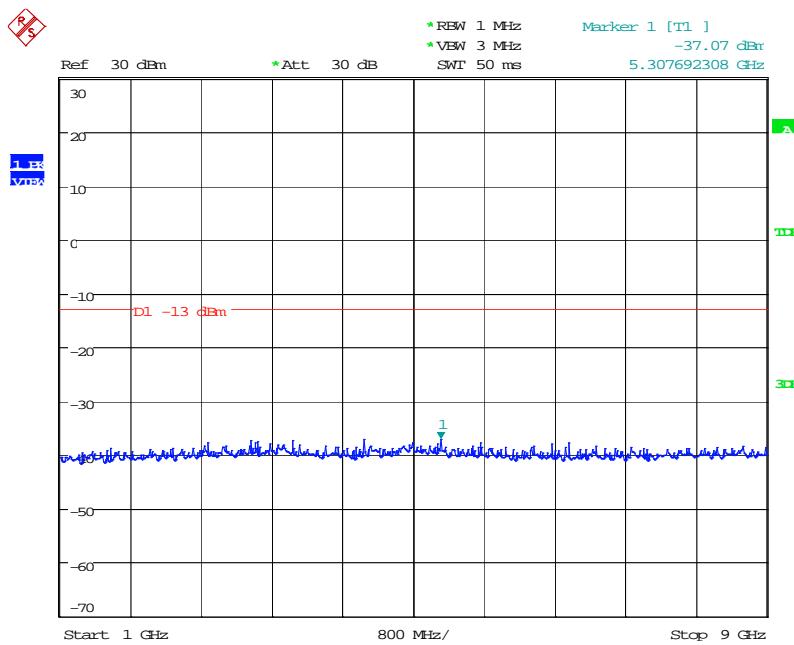
Date: 15.FEB.2017 09:07:26

CONDUCTED EMISSION IN WCDMA Band V
Conducted Emission Transmitting Mode CH 4132 30MHz – 1GHz

```
                              *RBW 100 kHz      Marker 2 [T1 ]
                              *VBW 300 kHz            -38.26 dBm
          Ref   30 dBm        *Att  30 dB   SWT 100 ms    577.179487179 MHz
                                                   Marker 1 [T1 ]
                                                          16.58 dBm
                                                   827.451923077 MHz
```

Date: 15.FEB.2017 09:21:33

Report No.: FCC17010035A-5
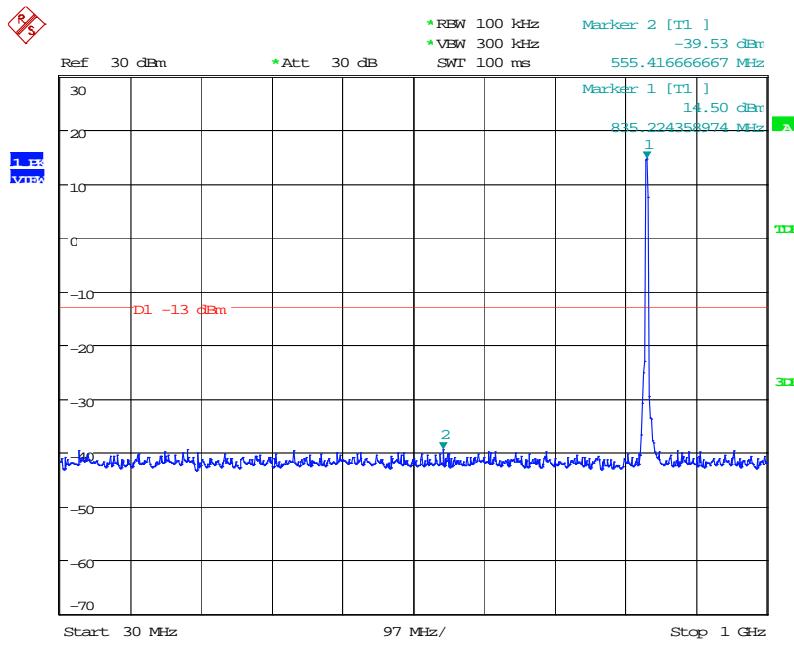
Conducted Emission Transmitting Mode CH 4132 1GHz – 9GHz

*RBW 1 MHz   Marker 1 [T1]
*VBW 3 MHz   –37.07 dBm
Ref 30 dBm   *Att 30 dB   SWT 50 ms   5.307692308 GHz

D1 –13 dBm

Start 1 GHz   800 MHz/   Stop 9 GHz
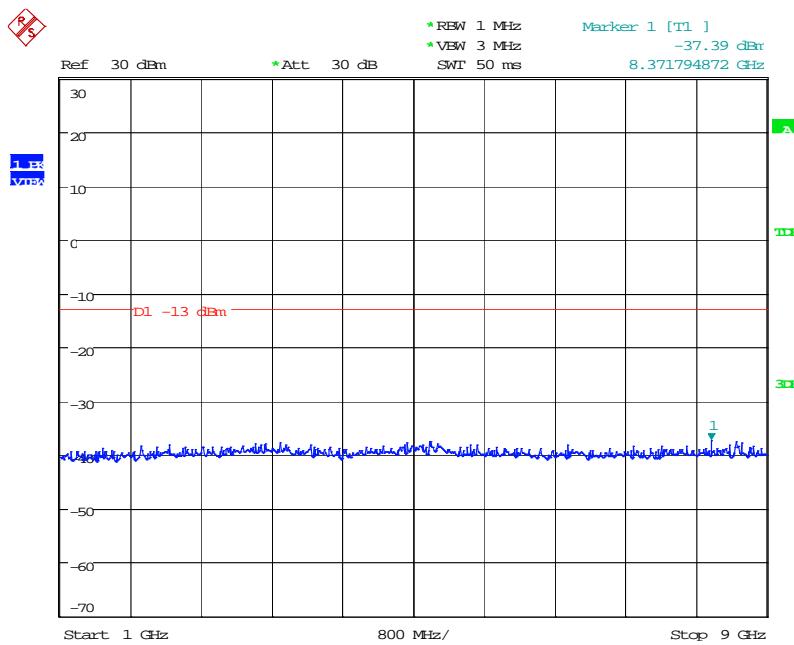
Date: 15.FEB.2017 09:22:44

Conducted Emission Transmitting Mode CH 4182 30MHz – 1GHz

*RBW 100 kHz   Marker 2 [T1]
*VBW 300 kHz   –39.53 dBm
Ref 30 dBm   *Att 30 dB   SWT 100 ms   555.416666667 MHz

Marker 1 [T1]
14.50 dBm
835.224358974 MHz

D1 –13 dBm

Start 30 MHz   97 MHz/   Stop 1 GHz

Date: 15.FEB.2017 09:24:52

Report No.: FCC17010035A-5
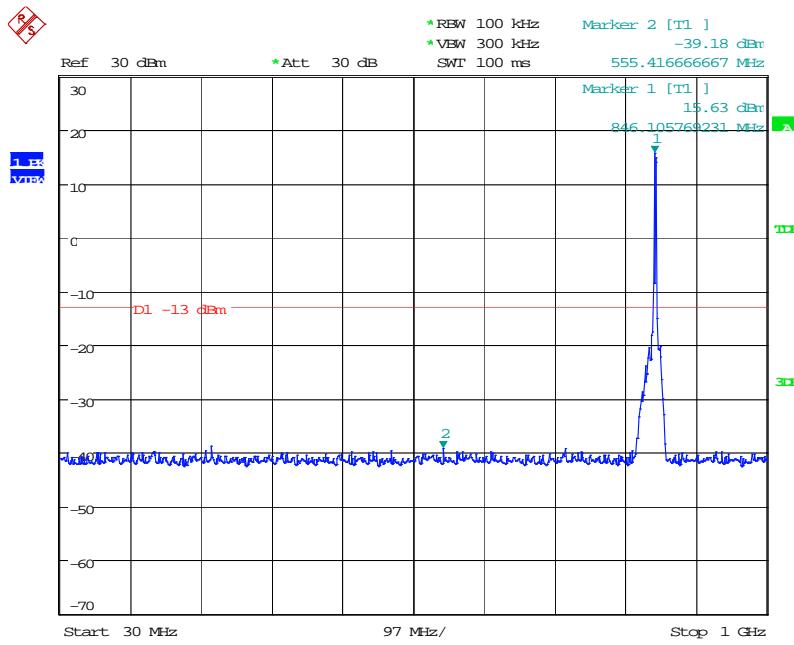
Conducted Emission Transmitting Mode CH 4182 1GHz – 9GHz

```
                              *RBW  1 MHz        Marker 1 [T1 ]
                              *VBW  3 MHz                -37.39 dBm
      Ref   30 dBm      *Att   30 dB   SWT  50 ms      8.371794872 GHz
```

D1 −13 dBm

```
Start  1 GHz          800 MHz/              Stop  9 GHz
```
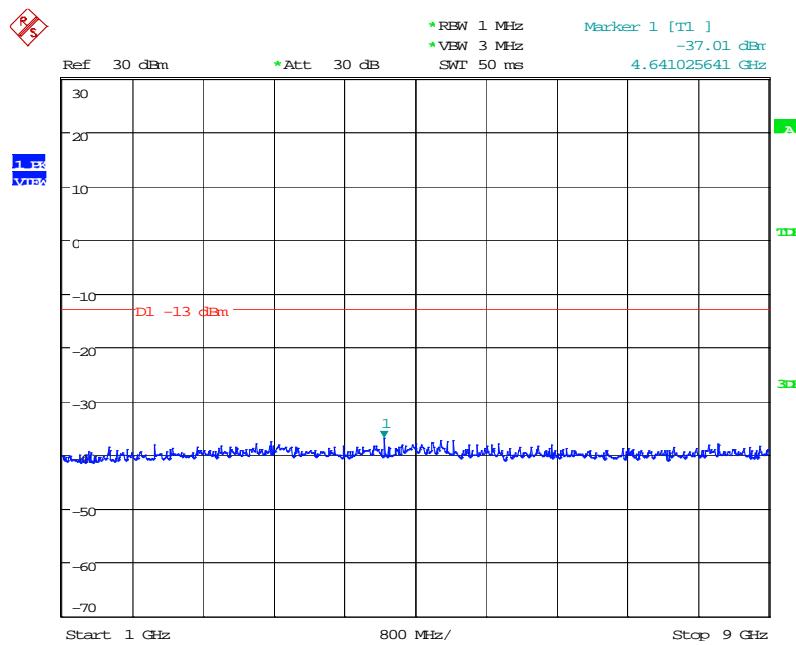
Date: 15.FEB.2017 09:23:49

Conducted Emission Transmitting Mode CH 4233 30MHz – 1GHz

```
                              *RBW  100 kHz      Marker 2 [T1 ]
                              *VBW  300 kHz              -39.18 dBm
      Ref   30 dBm      *Att   30 dB   SWT  100 ms     555.416666667 MHz
                                                 Marker 1 [T1 ]
                                                        15.63 dBm
                                                 846.105769231 MHz
```

D1 −13 dBm

```
Start  30 MHz          97 MHz/               Stop  1 GHz
```

Date: 15.FEB.2017 09:34:07

Report No.: FCC17010035A-5
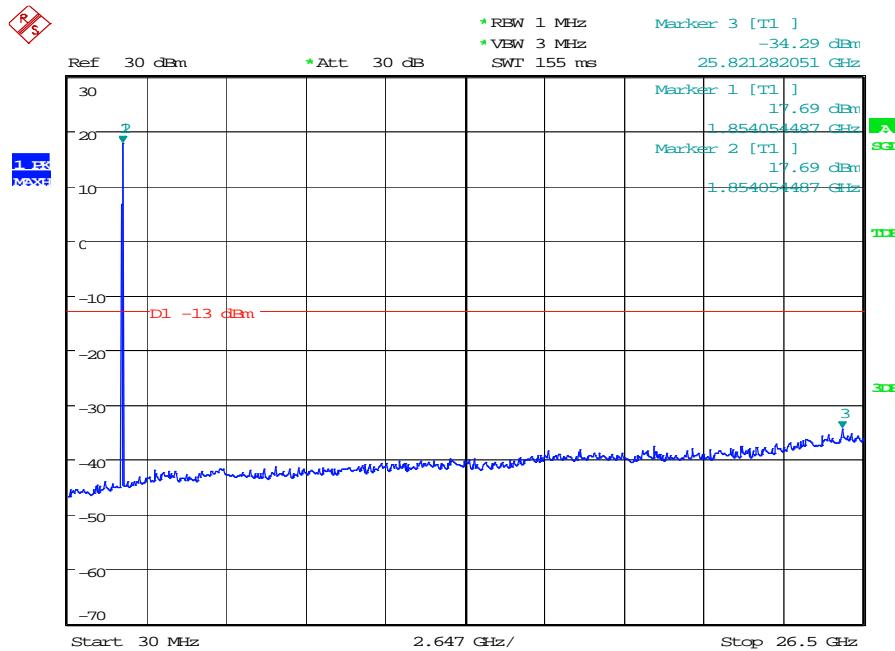
Conducted Emission Transmitting Mode CH 4233 1GHz – 9GHz

```
                                    *RBW  1 MHz        Marker 1 [T1 ]
                                    *VBW  3 MHz              -37.01 dBm
     Ref  30 dBm        *Att  30 dB   SWT 50 ms        4.641025641 GHz

      30                                                            A

      20

  1 PK
  VIEW 10

      0                                                            TDF

     -10
   D1 -13 dBm

     -20

     -30                                                           3DB

                            1
            ▼

     -50

     -60

     -70
    Start  1 GHz              800 MHz/              Stop  9 GHz
```

Date: 15.FEB.2017 09:34:59
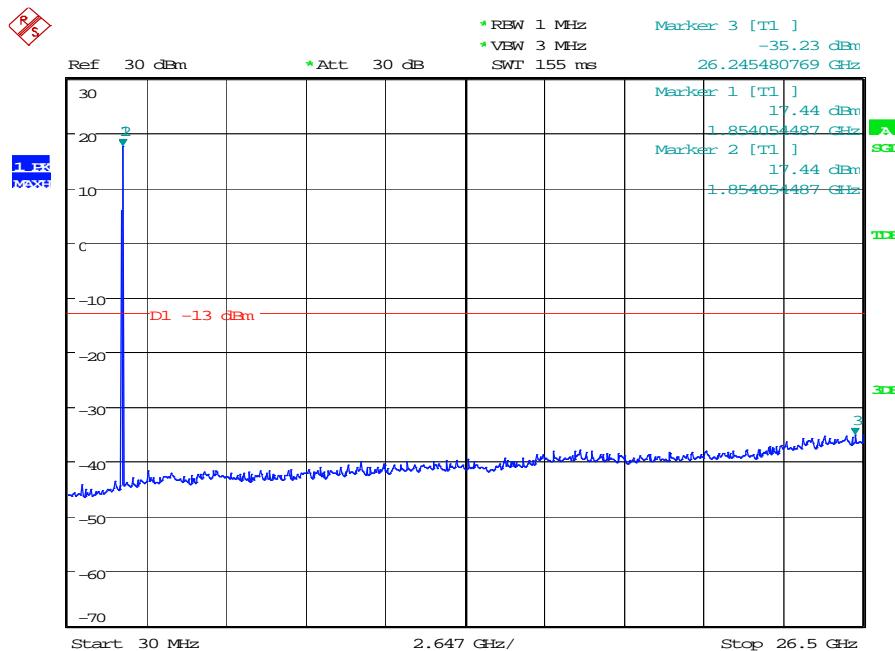
BAND 2@Conducted Spurious Emission

BW1.4MHz-1850.7MHz,Q16-6RB_LOW@Pass

	*RBW 1 MHz	Marker 3 [T1]
	*VBW 3 MHz	−34.29 dBm
Ref 30 dBm	*Att 30 dB SWT 155 ms	25.821282051 GHz

Marker 1 [T1]
17.69 dBm
1.854054487 GHz
Marker 2 [T1]
17.69 dBm
1.854054487 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
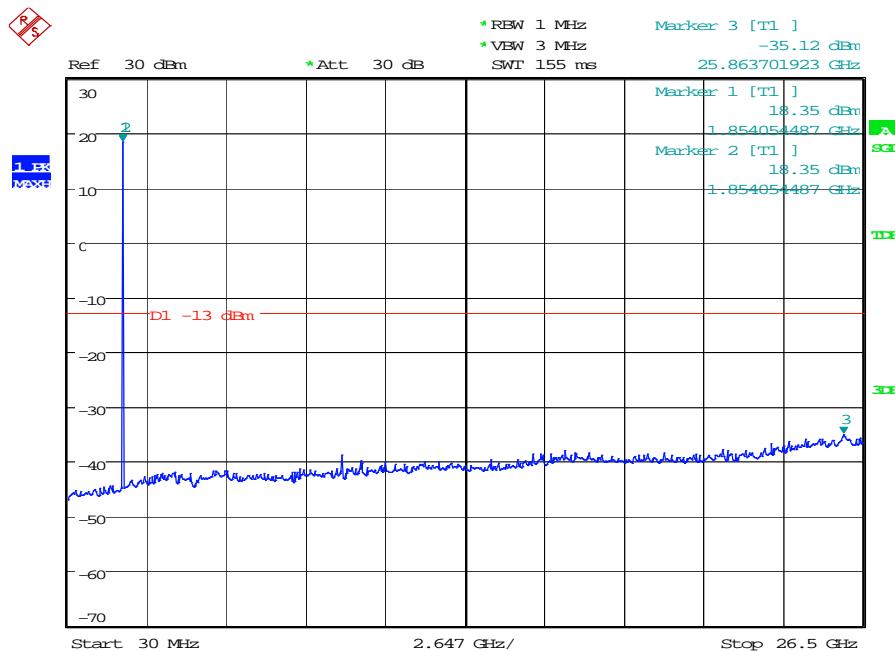
Date: 15.FEB.2017 15:06:14

BW1.4MHz-1850.7MHz,QPSK-6RB_LOW@Pass

	*RBW 1 MHz	Marker 3 [T1]
	*VBW 3 MHz	−35.23 dBm
Ref 30 dBm	*Att 30 dB SWT 155 ms	26.245480769 GHz

Marker 1 [T1]
17.44 dBm
1.854054487 GHz
Marker 2 [T1]
17.44 dBm
1.854054487 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 15.FEB.2017 15:05:16

Report No.: FCC17010035A-5
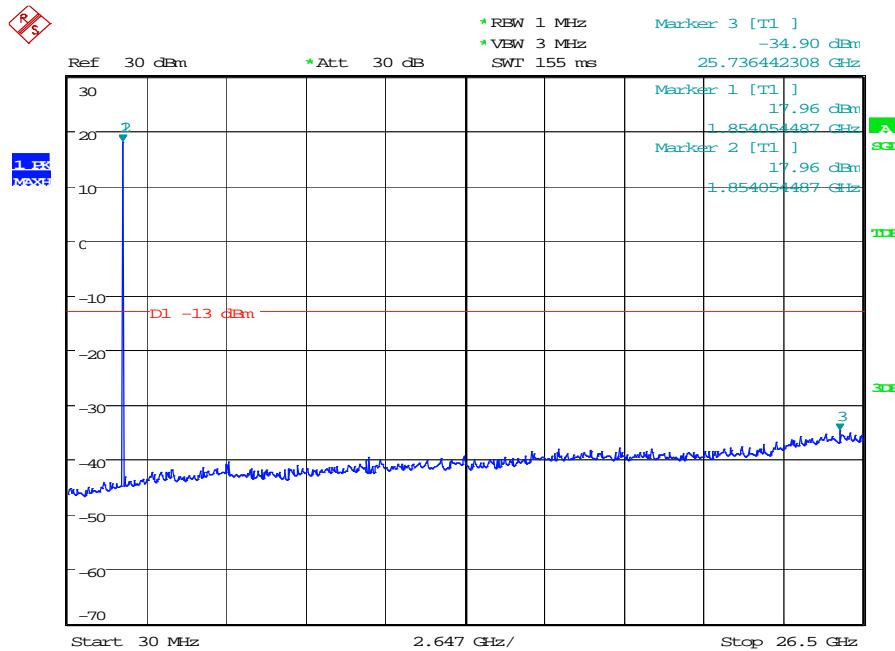
BW1.4MHz-1880MHz,Q16-6RB_LOW@Pass

```
                                    *RBW  1 MHz        Marker 3 [T1 ]
                                    *VBW  3 MHz                   -35.12 dBm
Ref    30 dBm            *Att  30 dB  SWT 155 ms        25.863701923 GHz
```

Marker 1 [T1]
18.35 dBm
1.854054487 GHz
Marker 2 [T1]
18.35 dBm
1.854054487 GHz

D1 -13 dBm

```
Start  30 MHz              2.647 GHz/              Stop  26.5 GHz
```
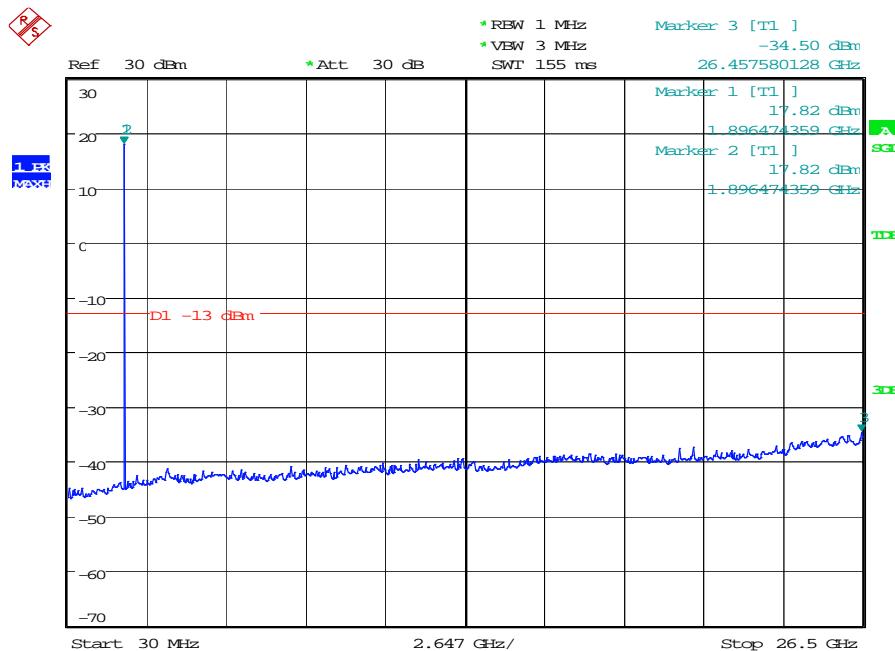
Date: 15.FEB.2017 15:09:57

BW1.4MHz-1880MHz,QPSK-6RB_LOW@Pass

```
                                    *RBW  1 MHz        Marker 3 [T1 ]
                                    *VBW  3 MHz                   -34.90 dBm
Ref    30 dBm            *Att  30 dB  SWT 155 ms        25.736442308 GHz
```

Marker 1 [T1]
17.96 dBm
1.854054487 GHz
Marker 2 [T1]
17.96 dBm
1.854054487 GHz

D1 -13 dBm

```
Start  30 MHz              2.647 GHz/              Stop  26.5 GHz
```

Date: 15.FEB.2017 15:09:16

Report No.: FCC17010035A-5
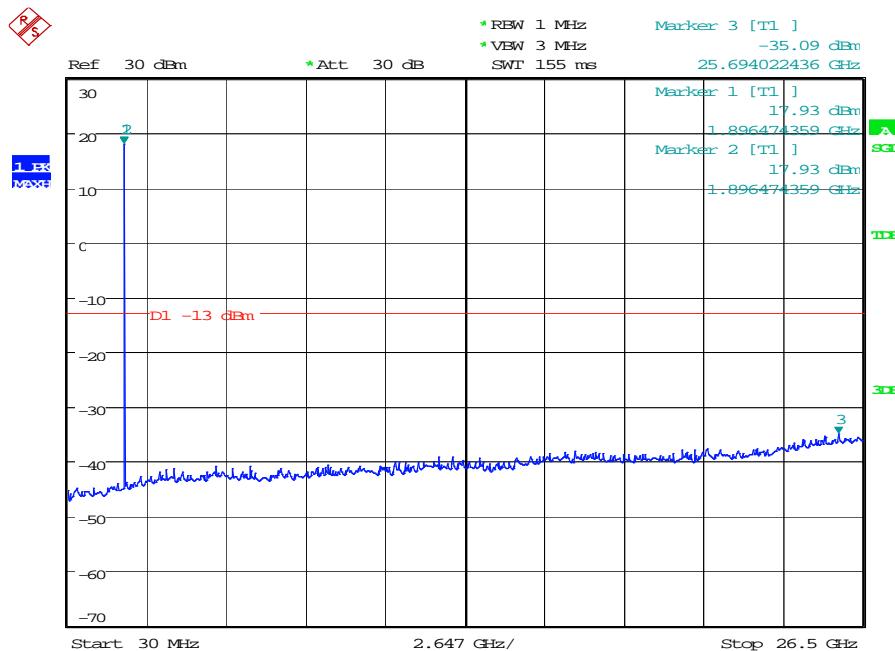
BW1.4MHz-1909.3MHz,Q16-6RB_LOW@Pass
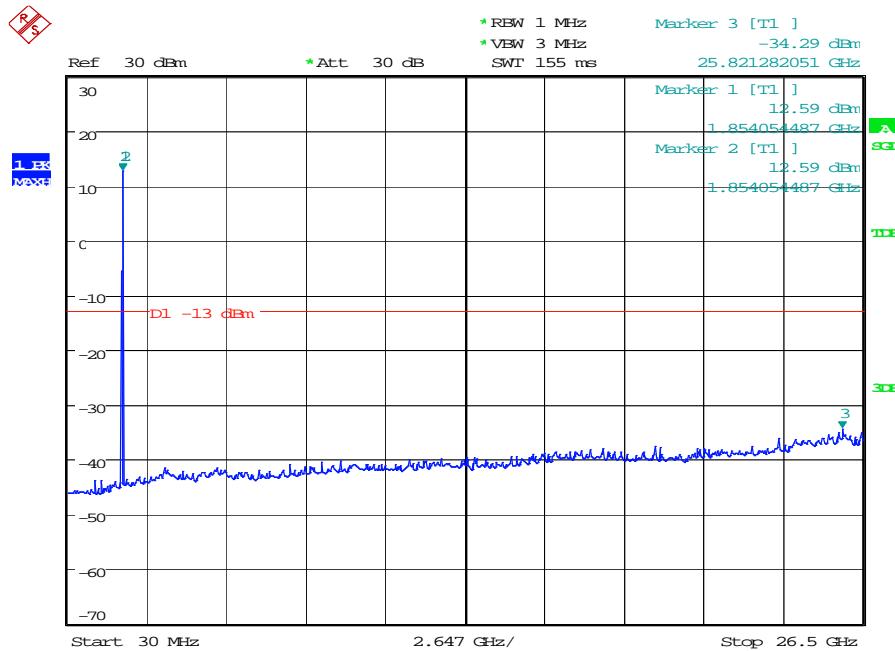
Date: 15.FEB.2017 15:08:29

BW1.4MHz-1909.3MHz,QPSK-6RB_LOW@Pass

Date: 15.FEB.2017 15:07:22

Report No.: FCC17010035A-5
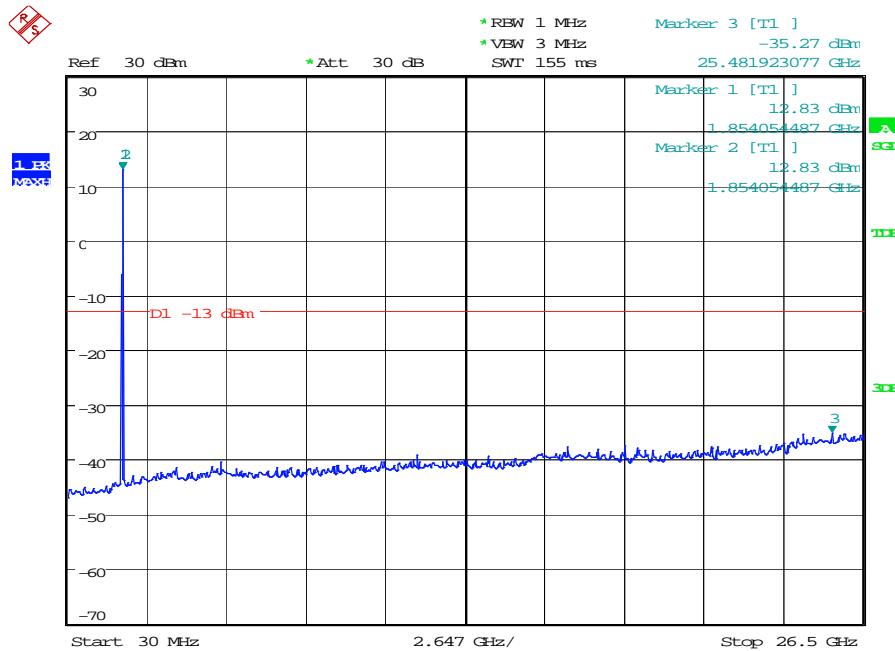
BW10MHz-1855MHz,Q16-50RB_LOW@Pass

	*RBW 1 MHz	Marker 3 [T1]
	*VBW 3 MHz	-34.29 dBm
Ref 30 dBm	*Att 30 dB SWT 155 ms	25.821282051 GHz

Marker 1 [T1]
12.59 dBm
1.854054487 GHz

Marker 2 [T1]
12.59 dBm
1.854054487 GHz

A SGL

TDF

3DB

1 PK MAX

D1 -13 dBm

Start 30 MHz 2.647 GHz/ Stop 26.5 GHz
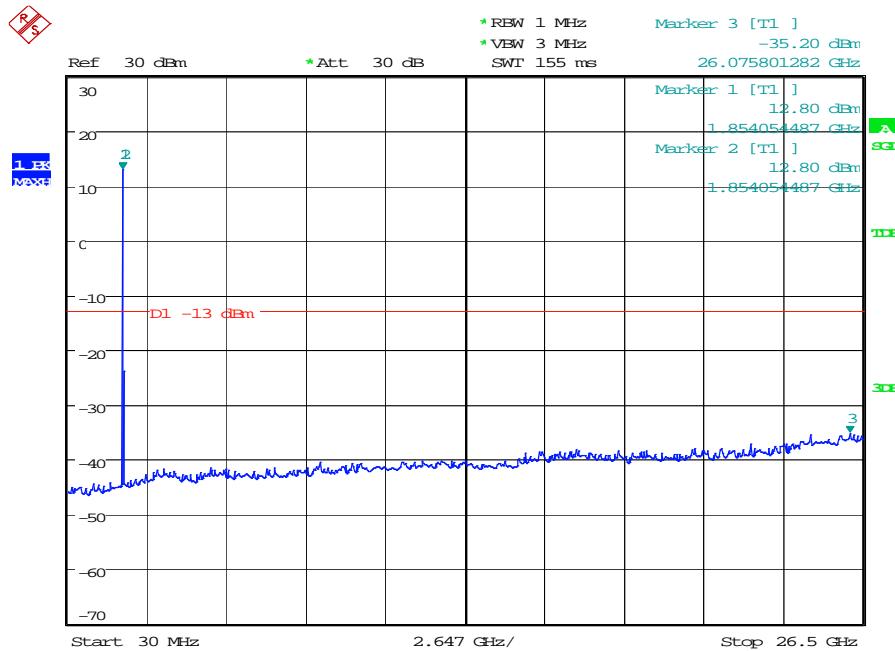
Date: 15.FEB.2017 15:21:31

BW10MHz-1855MHz,QPSK-50RB_LOW@Pass

	*RBW 1 MHz	Marker 3 [T1]
	*VBW 3 MHz	-35.27 dBm
Ref 30 dBm	*Att 30 dB SWT 155 ms	25.481923077 GHz

Marker 1 [T1]
12.83 dBm
1.854054487 GHz

Marker 2 [T1]
12.83 dBm
1.854054487 GHz

A SGL

TDF

3DB

1 PK MAX

D1 -13 dBm

Start 30 MHz 2.647 GHz/ Stop 26.5 GHz

Date: 15.FEB.2017 15:20:40

Report No.: FCC17010035A-5
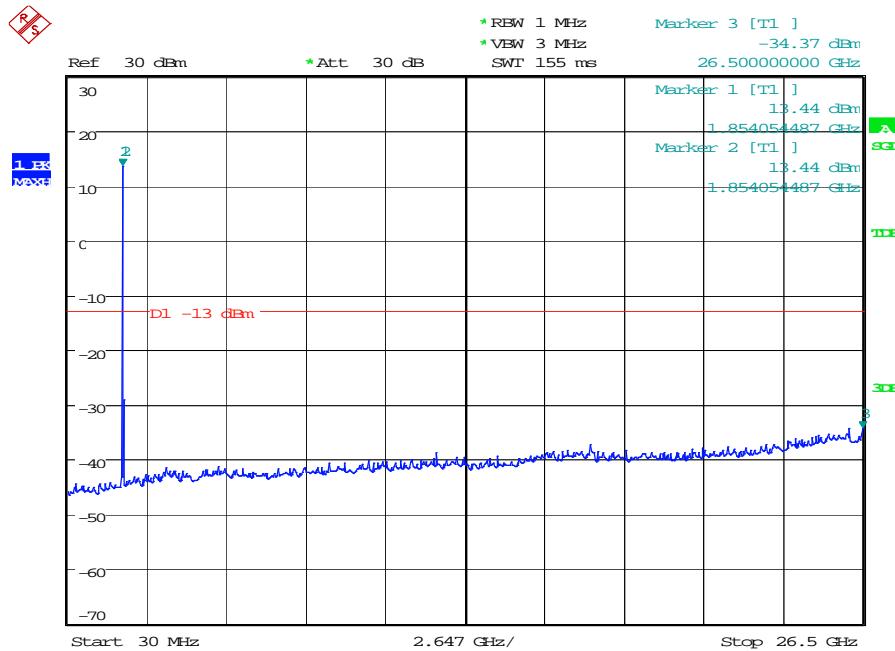
BW10MHz-1880MHz,Q16-50RB_LOW@Pass

* RBW 1 MHz	Marker 3 [T1]
* VBW 3 MHz	-35.20 dBm
Ref 30 dBm * Att 30 dB SWT 155 ms	26.075801282 GHz

Marker 1 [T1]
12.80 dBm
1.854054487 GHz
Marker 2 [T1]
12.80 dBm
1.854054487 GHz

D1 -13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
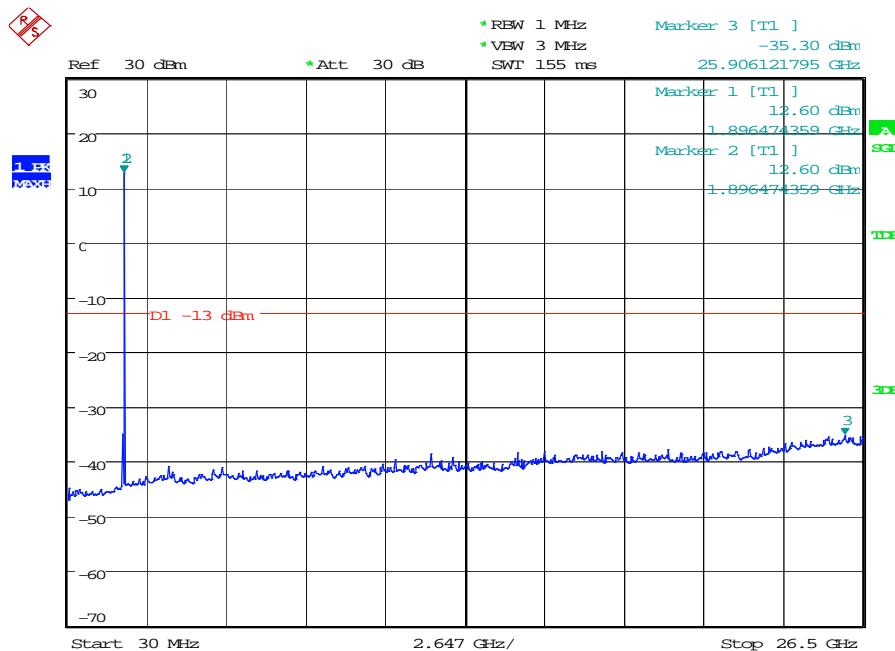
Date: 15.FEB.2017   15:24:29

BW10MHz-1880MHz,QPSK-50RB_LOW@Pass

* RBW 1 MHz	Marker 3 [T1]
* VBW 3 MHz	-34.37 dBm
Ref 30 dBm * Att 30 dB SWT 155 ms	26.500000000 GHz

Marker 1 [T1]
13.44 dBm
1.854054487 GHz
Marker 2 [T1]
13.44 dBm
1.854054487 GHz

D1 -13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 15.FEB.2017   15:23:54

Report No.: FCC17010035A-5
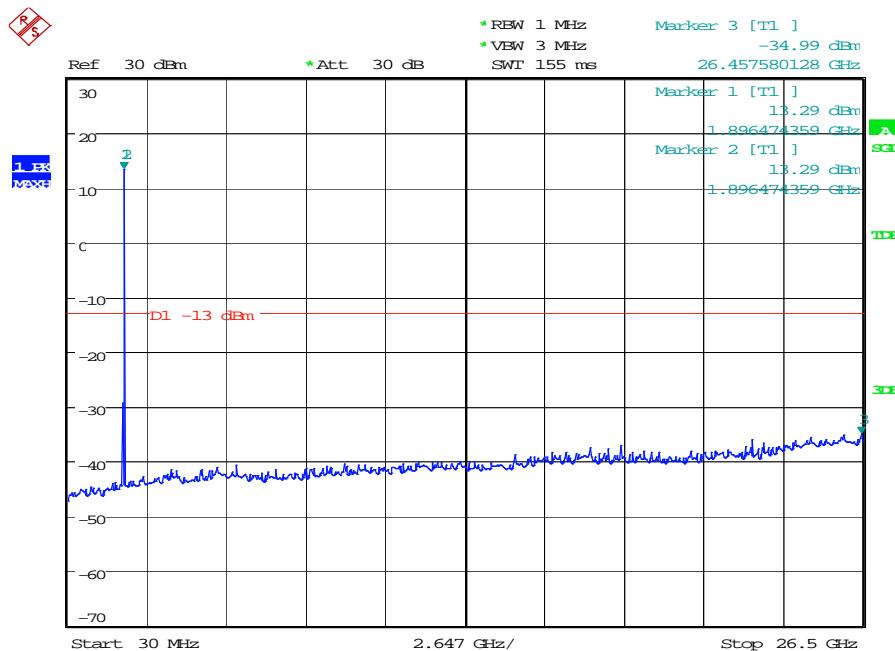
BW10MHz-1905MHz,Q16-50RB_LOW@Pass
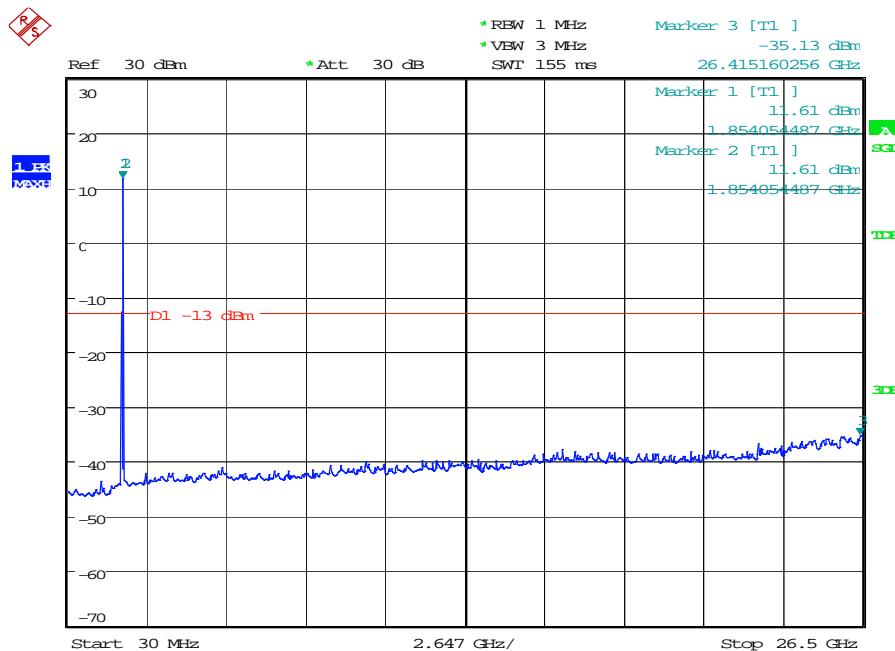
Date: 15.FEB.2017 15:23:13

BW10MHz-1905MHz,QPSK-50RB_LOW@Pass

Date: 15.FEB.2017 15:22:22

Report No.: FCC17010035A-5
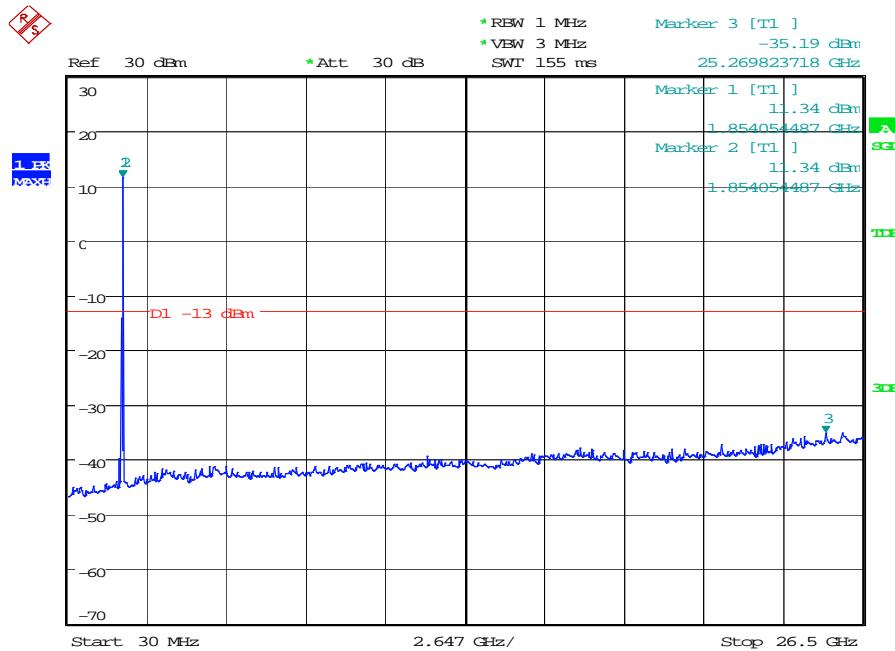
BW15MHz-1857.5MHz,Q16-75RB_LOW@Pass
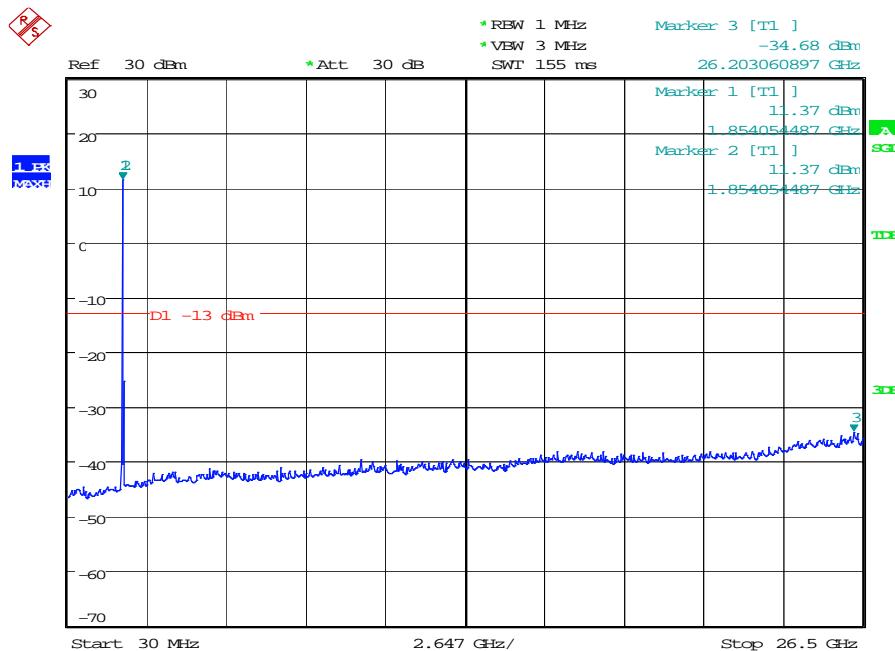
Date: 15.FEB.2017 15:26:10

BW15MHz-1857.5MHz,QPSK-75RB_LOW@Pass

Date: 15.FEB.2017 15:25:19

Report No.: FCC17010035A-5
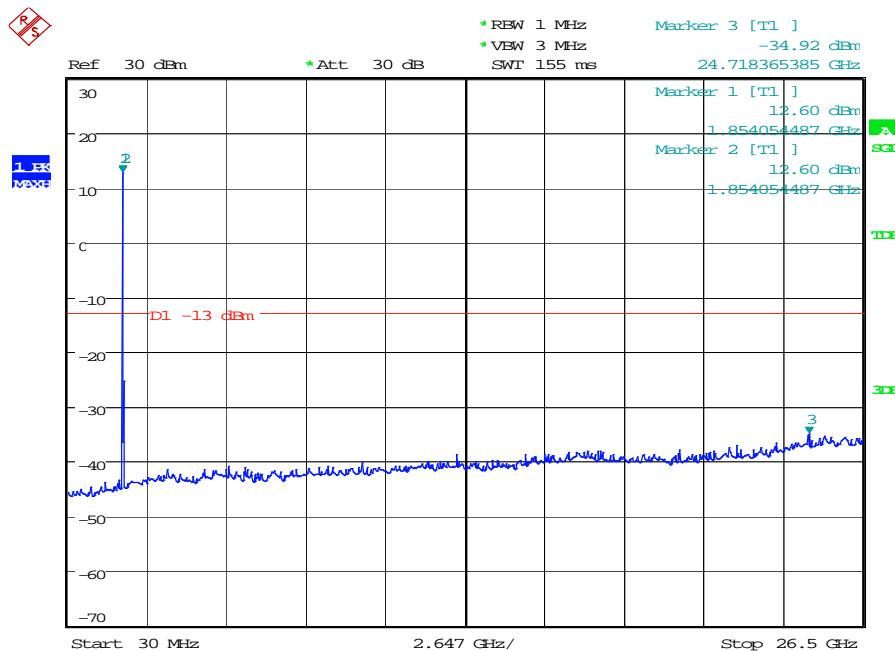
BW15MHz-1880MHz,Q16-75RB_LOW@Pass

*RBW 1 MHz	Marker 3 [T1]
*VBW 3 MHz	−34.68 dBm
Ref 30 dBm *Att 30 dB SWT 155 ms	26.203060897 GHz

Marker 1 [T1]
11.37 dBm
1.854054487 GHz
Marker 2 [T1]
11.37 dBm
1.854054487 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
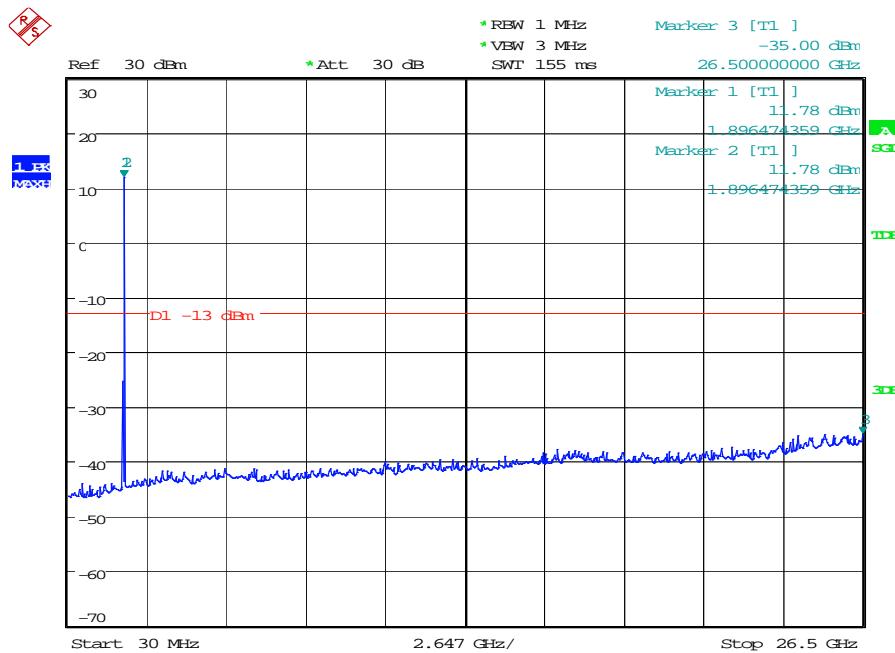
Date: 15.FEB.2017 15:29:10

BW15MHz-1880MHz,QPSK-75RB_LOW@Pass

*RBW 1 MHz	Marker 3 [T1]
*VBW 3 MHz	−34.92 dBm
Ref 30 dBm *Att 30 dB SWT 155 ms	24.718365385 GHz

Marker 1 [T1]
12.60 dBm
1.854054487 GHz
Marker 2 [T1]
12.60 dBm
1.854054487 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 15.FEB.2017 15:28:35
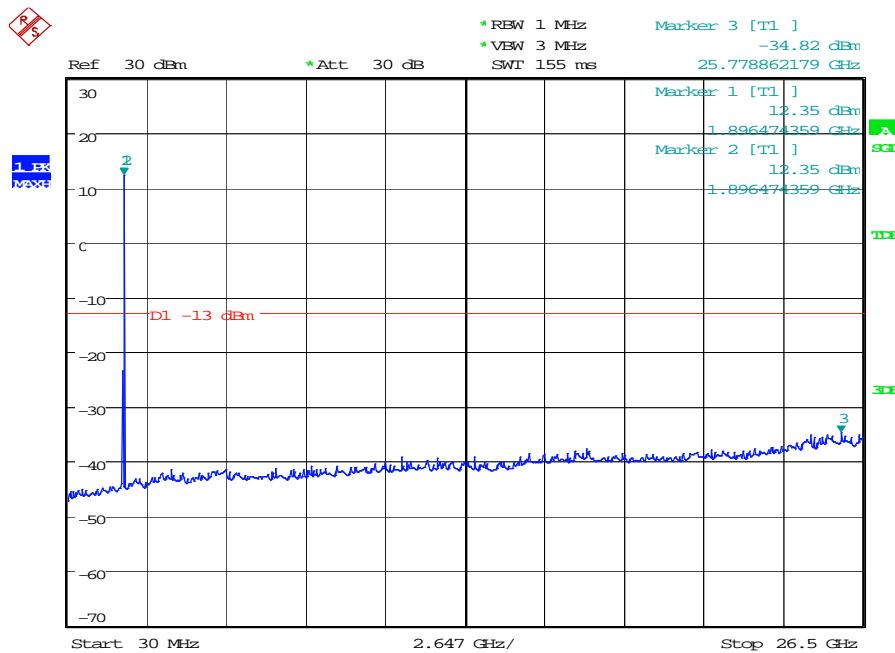
Report No.: FCC17010035A-5

BW15MHz-1902.5MHz,Q16-75RB_LOW@Pass

	*RBW 1 MHz	Marker 3 [T1]
	*VBW 3 MHz	−35.00 dBm
Ref 30 dBm	*Att 30 dB SWT 155 ms	26.500000000 GHz

Marker 1 [T1]
11.78 dBm
1.896474359 GHz
Marker 2 [T1]
11.78 dBm
1.896474359 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
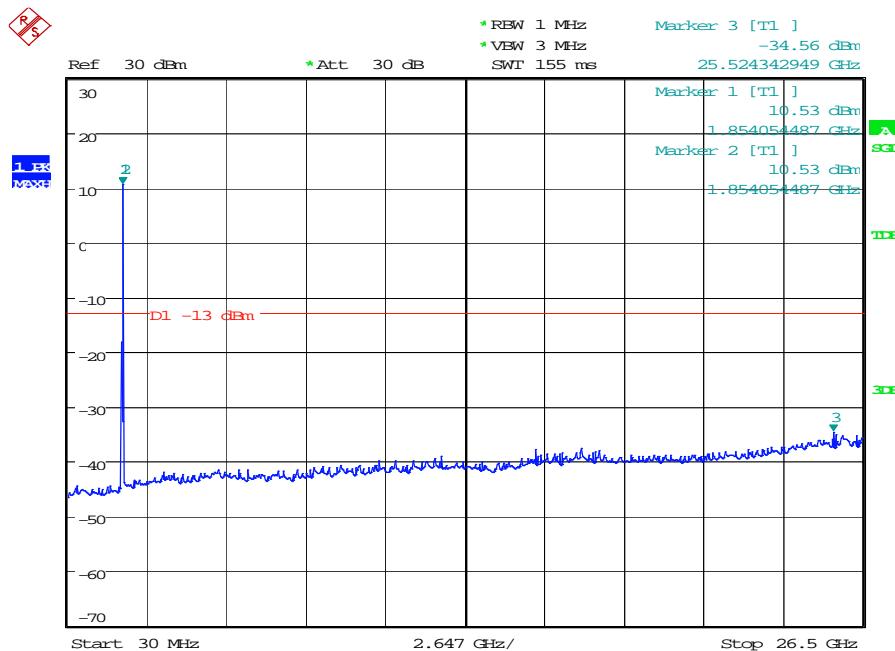
Date: 15.FEB.2017 15:27:54

BW15MHz-1902.5MHz,QPSK-75RB_LOW@Pass

	*RBW 1 MHz	Marker 3 [T1]
	*VBW 3 MHz	−34.82 dBm
Ref 30 dBm	*Att 30 dB SWT 155 ms	25.778862179 GHz

Marker 1 [T1]
12.35 dBm
1.896474359 GHz
Marker 2 [T1]
12.35 dBm
1.896474359 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 15.FEB.2017 15:27:01

Report No.: FCC17010035A-5
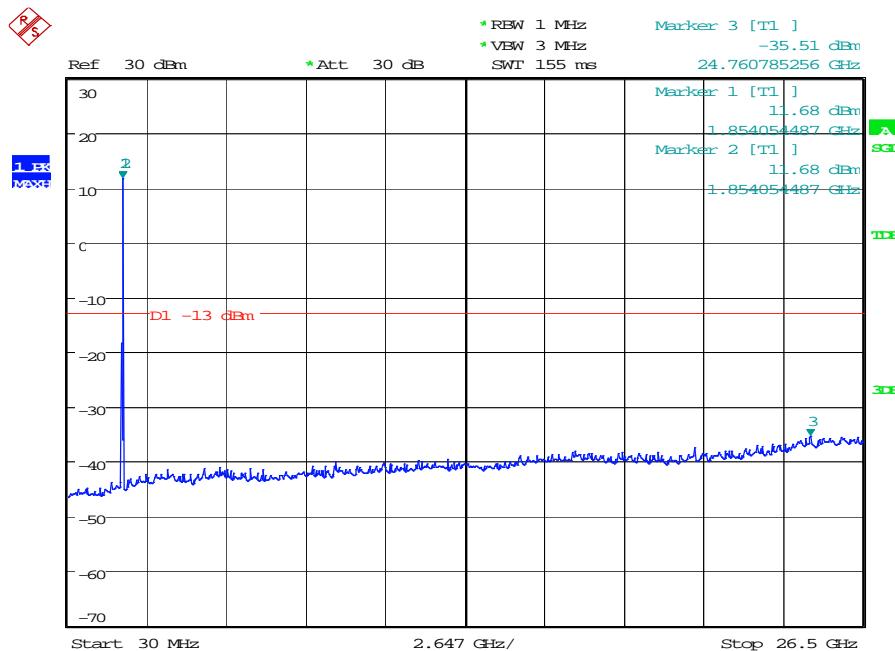
BW20MHz-1860MHz,Q16-100RB_LOW @Pass

*RBW 1 MHz	Marker 3 [T1]	
*VBW 3 MHz	−34.56 dBm	
Ref 30 dBm *Att 30 dB SWT 155 ms	25.524342949 GHz	

Marker 1 [T1]
10.53 dBm
1.854054487 GHz

Marker 2 [T1]
10.53 dBm
1.854054487 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
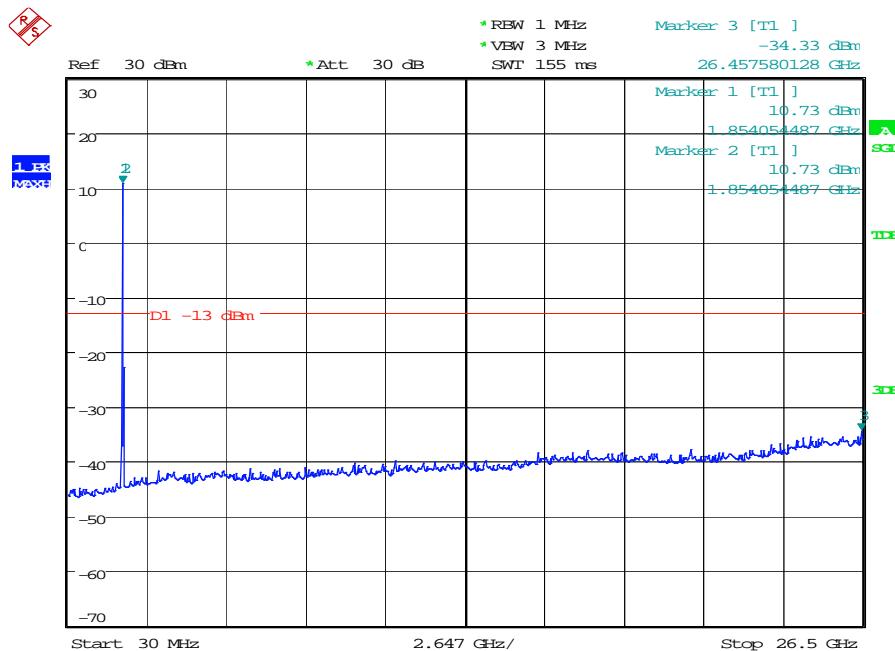
Date: 15.FEB.2017 15:30:51

BW20MHz-1860MHz,QPSK-100RB_LOW @Pass

*RBW 1 MHz	Marker 3 [T1]	
*VBW 3 MHz	−35.51 dBm	
Ref 30 dBm *Att 30 dB SWT 155 ms	24.760785256 GHz	

Marker 1 [T1]
11.68 dBm
1.854054487 GHz

Marker 2 [T1]
11.68 dBm
1.854054487 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 15.FEB.2017 15:30:00

Report No.: FCC17010035A-5
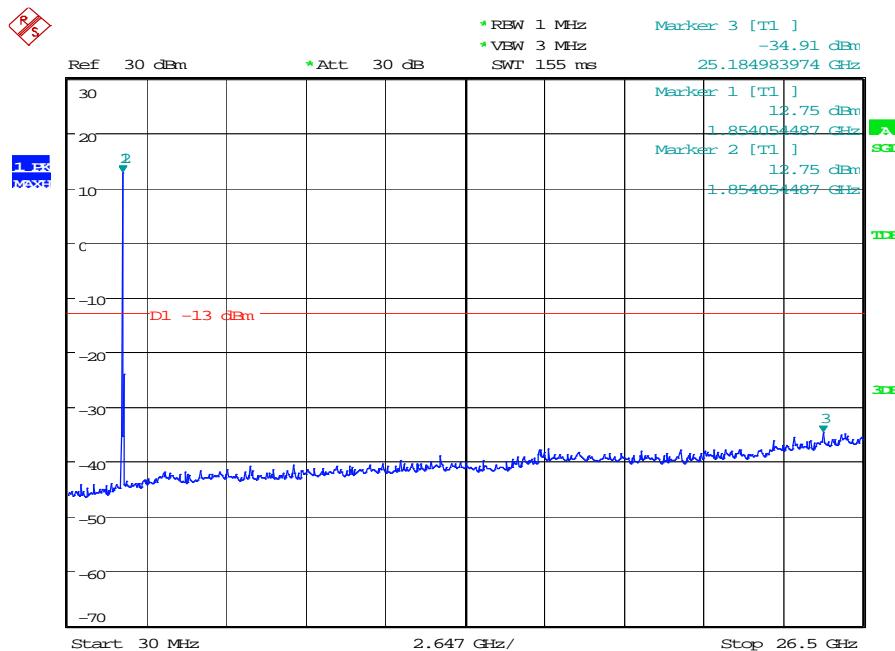
BW20MHz-1880MHz,Q16-100RB_LOW @Pass

	* RBW 1 MHz	Marker 3 [T1]	
	* VBW 3 MHz	−34.33 dBm	
Ref 30 dBm	* Att 30 dB SWT 155 ms	26.457580128 GHz	

Marker 1 [T1]
10.73 dBm
1.854054487 GHz
Marker 2 [T1]
10.73 dBm
1.854054487 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
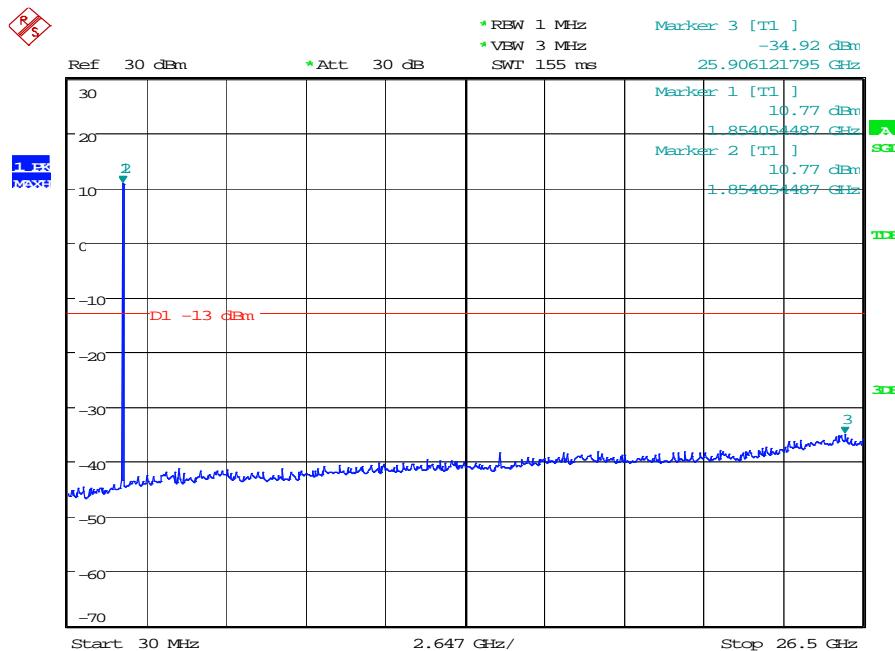
Date: 15.FEB.2017 15:33:53

BW20MHz-1880MHz,QPSK-100RB_LOW @Pass

	* RBW 1 MHz	Marker 3 [T1]	
	* VBW 3 MHz	−34.91 dBm	
Ref 30 dBm	* Att 30 dB SWT 155 ms	25.184983974 GHz	

Marker 1 [T1]
12.75 dBm
1.854054487 GHz
Marker 2 [T1]
12.75 dBm
1.854054487 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 15.FEB.2017 15:33:17

Report No.: FCC17010035A-5
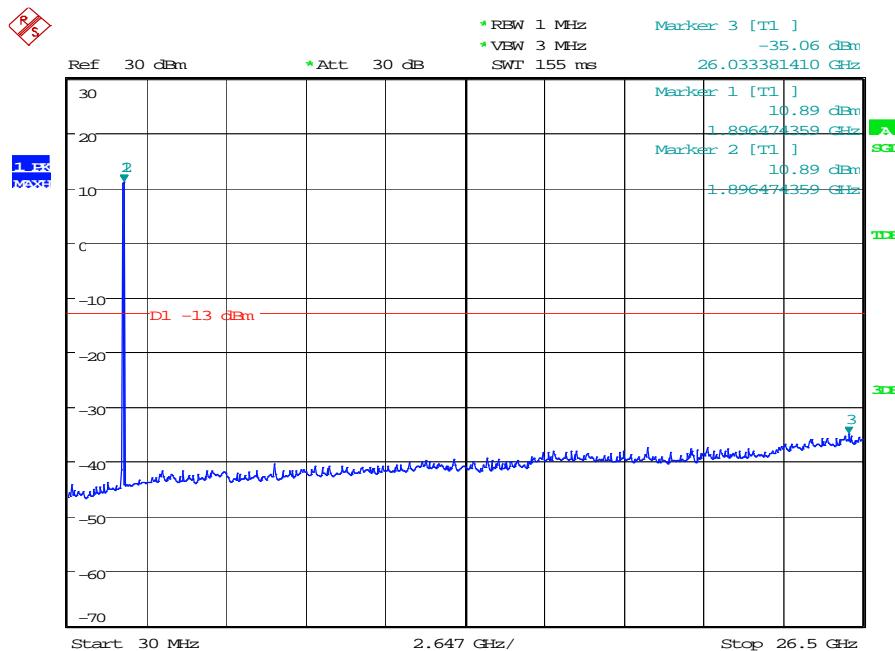
BW20MHz-1900MHz,Q16-100RB_LOW@Pass
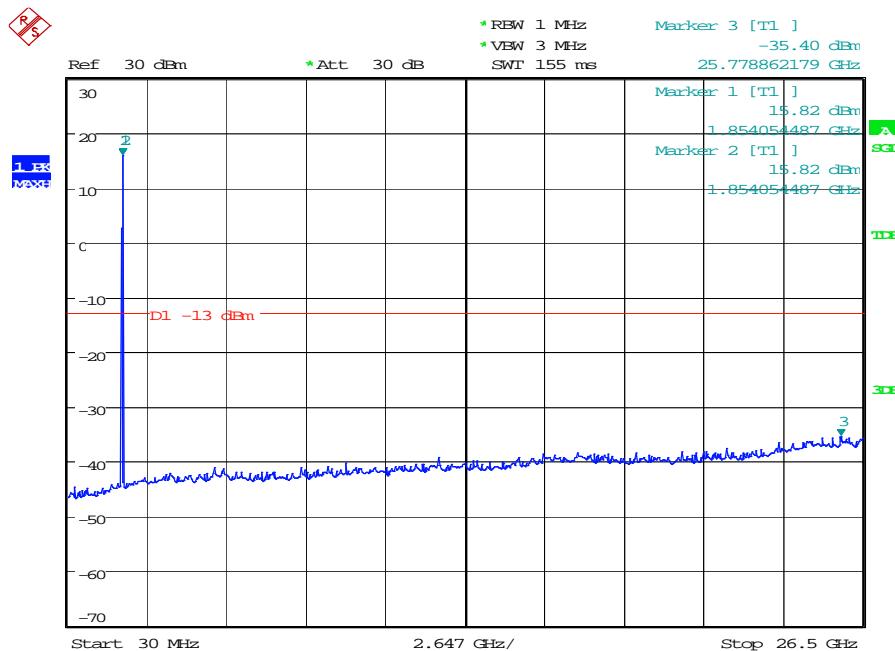
Date: 15.FEB.2017 15:32:35

BW20MHz-1900MHz,QPSK-100RB_LOW@Pass

Date: 15.FEB.2017 15:31:43

Report No.: FCC17010035A-5
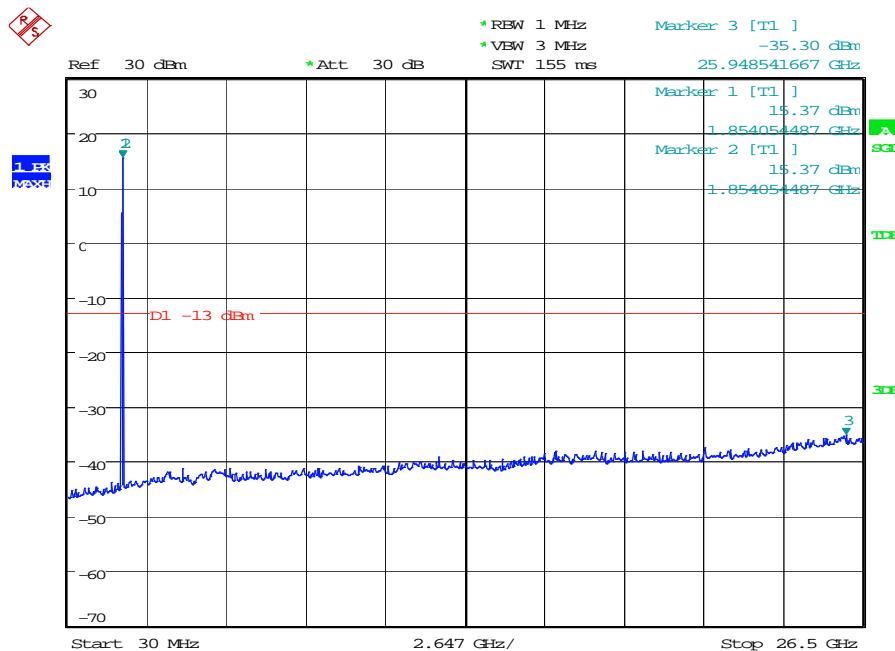
BW3MHz-1851.5MHz,Q16-15RB_LOW@Pass

	*RBW 1 MHz	Marker 3 [T1]
	*VBW 3 MHz	−35.40 dBm
Ref 30 dBm	*Att 30 dB SWT 155 ms	25.778862179 GHz

Marker 1 [T1]
15.82 dBm
1.854054487 GHz
Marker 2 [T1]
15.82 dBm
1.854054487 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
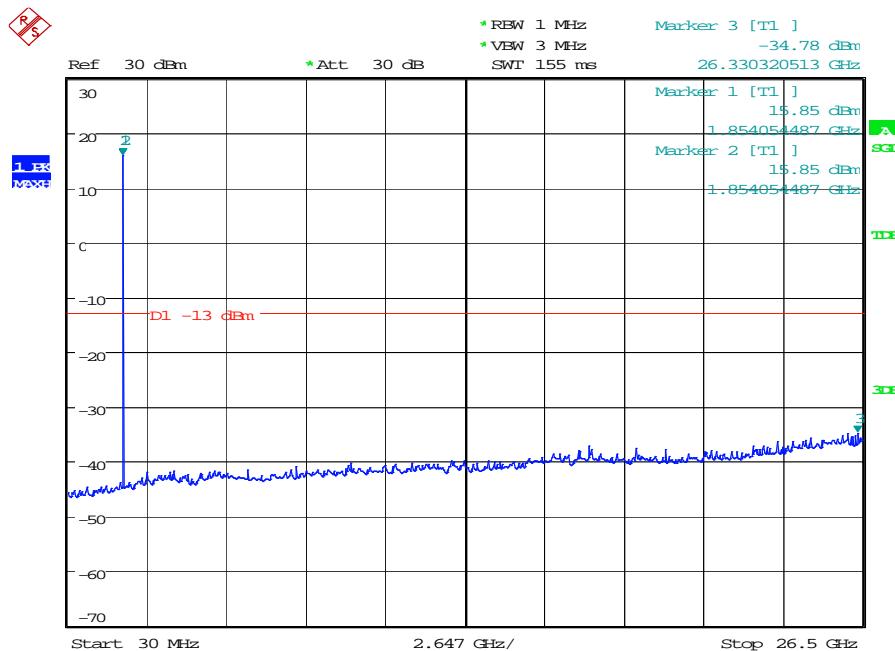
Date: 15.FEB.2017 15:11:36

BW3MHz-1851.5MHz,QPSK-15RB_LOW@Pass

	*RBW 1 MHz	Marker 3 [T1]
	*VBW 3 MHz	−35.30 dBm
Ref 30 dBm	*Att 30 dB SWT 155 ms	25.948541667 GHz

Marker 1 [T1]
15.37 dBm
1.854054487 GHz
Marker 2 [T1]
15.37 dBm
1.854054487 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 15.FEB.2017 15:10:46

Report No.: FCC17010035A-5
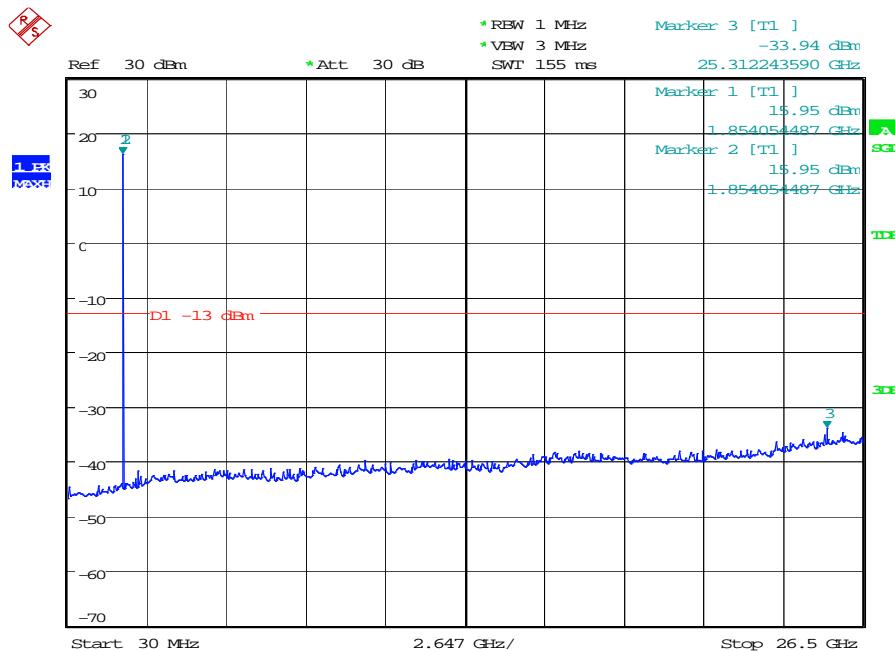
BW3MHz-1880MHz,Q16-15RB_LOW @Pass

	RBW 1 MHz	Marker 3 [T1]
	VBW 3 MHz	−34.78 dBm
Ref 30 dBm	Att 30 dB	SWT 155 ms	26.330320513 GHz

Marker 1 [T1]
15.85 dBm
1.854054487 GHz
Marker 2 [T1]
15.85 dBm
1.854054487 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
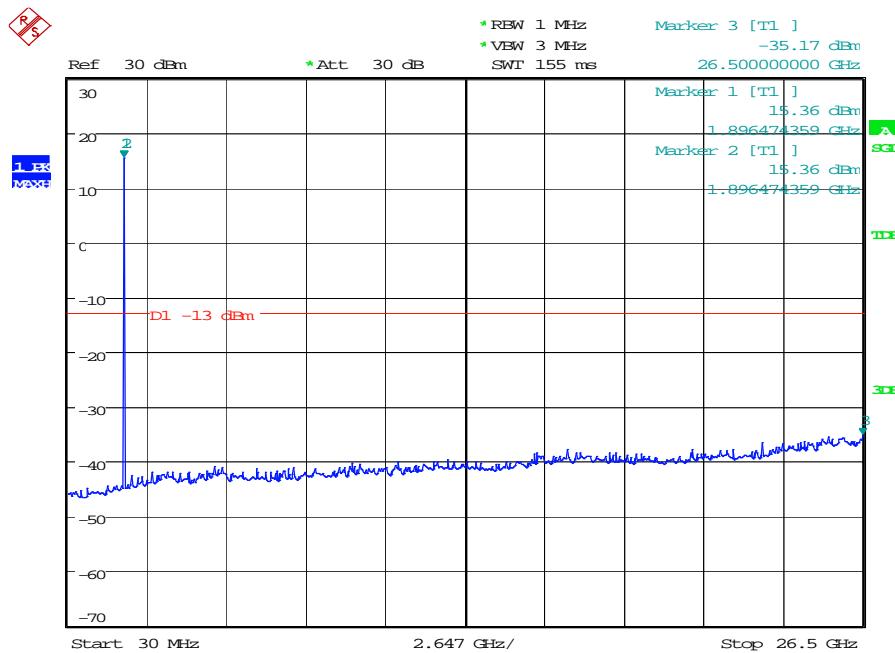
Date: 15.FEB.2017   15:14:48

BW3MHz-1880MHz,QPSK-15RB_LOW @Pass

	RBW 1 MHz	Marker 3 [T1]
	VBW 3 MHz	−33.94 dBm
Ref 30 dBm	Att 30 dB	SWT 155 ms	25.312243590 GHz

Marker 1 [T1]
15.95 dBm
1.854054487 GHz
Marker 2 [T1]
15.95 dBm
1.854054487 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 15.FEB.2017   15:14:15
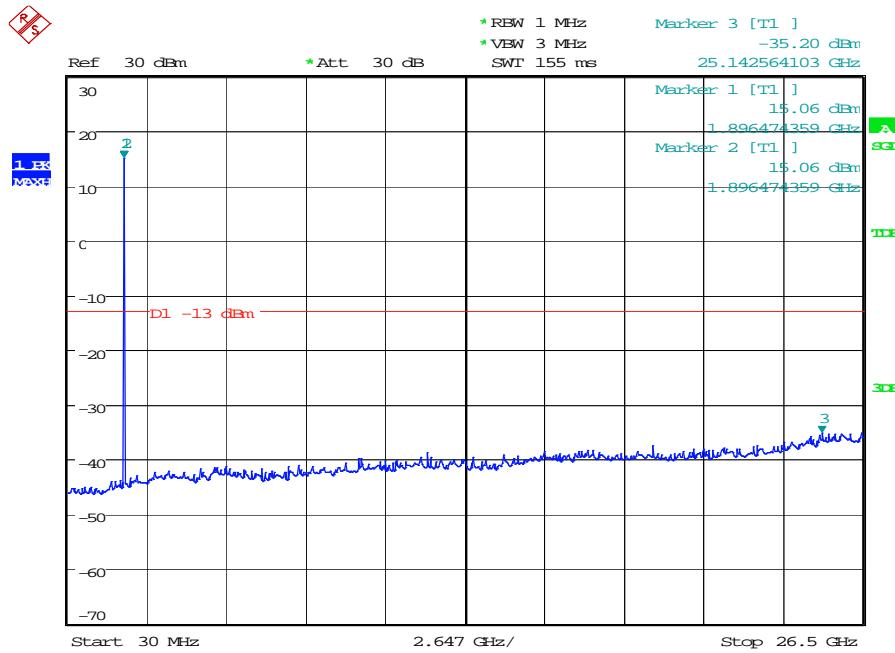
Report No.: FCC17010035A-5

BW3MHz-1908.5MHz,Q16-15RB_LOW @Pass

		*RBW 1 MHz		Marker 3 [T1]	
		*VBW 3 MHz		−35.17 dBm	
Ref 30 dBm		*Att 30 dB	SWT 155 ms	26.500000000 GHz	

```
Marker 1 [T1 ]
            15.36 dBm
      1.896474359 GHz
Marker 2 [T1 ]
            15.36 dBm
      1.896474359 GHz
```

D1 −13 dBm

```
Start 30 MHz        2.647 GHz/            Stop 26.5 GHz
```
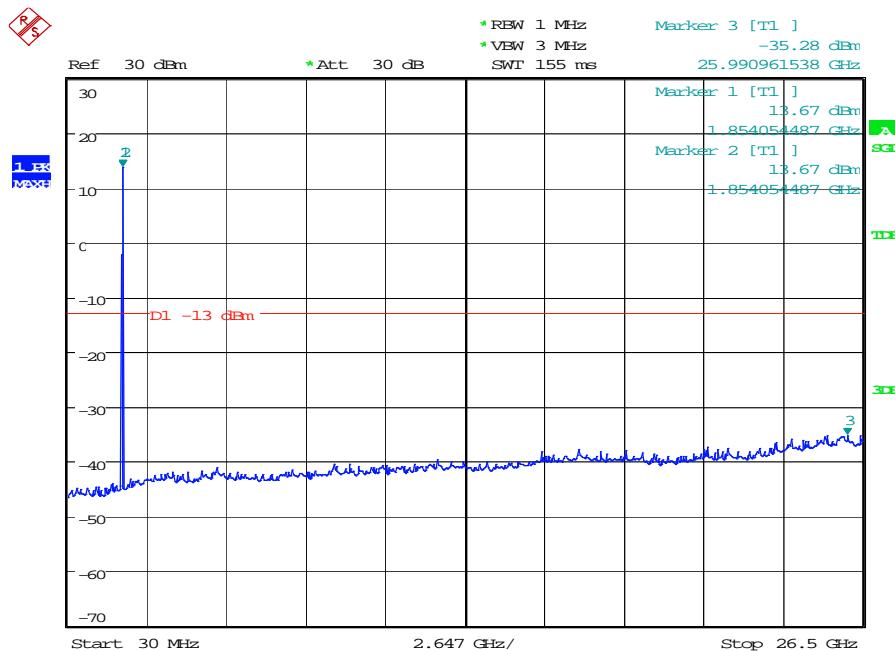
Date: 15.FEB.2017 15:13:37

BW3MHz-1908.5MHz,QPSK-15RB_LOW @Pass

		*RBW 1 MHz		Marker 3 [T1]	
		*VBW 3 MHz		−35.20 dBm	
Ref 30 dBm		*Att 30 dB	SWT 155 ms	25.142564103 GHz	

```
Marker 1 [T1 ]
            15.06 dBm
      1.896474359 GHz
Marker 2 [T1 ]
            15.06 dBm
      1.896474359 GHz
```

D1 −13 dBm

```
Start 30 MHz        2.647 GHz/            Stop 26.5 GHz
```

Date: 15.FEB.2017 15:12:38

Report No.: FCC17010035A-5
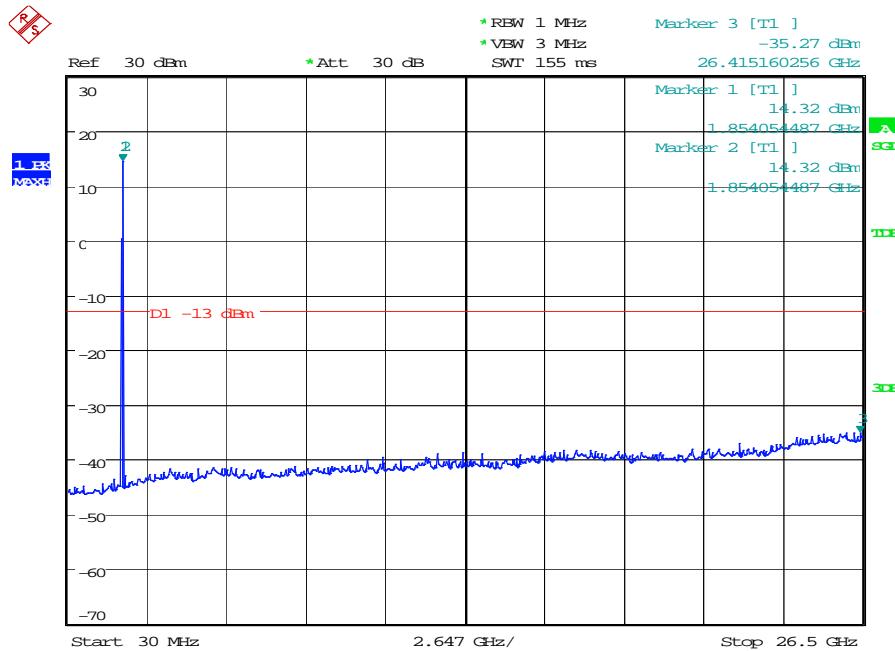
BW5MHz-1852.5MHz,Q16-25RB_LOW@Pass

```
                                    * RBW  1 MHz        Marker 3 [T1 ]
                                    * VBW  3 MHz                  -35.28 dBm
    Ref   30 dBm         * Att  30 dB   SWT 155 ms      25.990961538 GHz
```

Marker 1 [T1]
13.67 dBm
1.854054487 GHz
Marker 2 [T1]
13.67 dBm
1.854054487 GHz

1 PK
MAX

D1 -13 dBm

```
    Start  30 MHz            2.647 GHz/            Stop  26.5 GHz
```
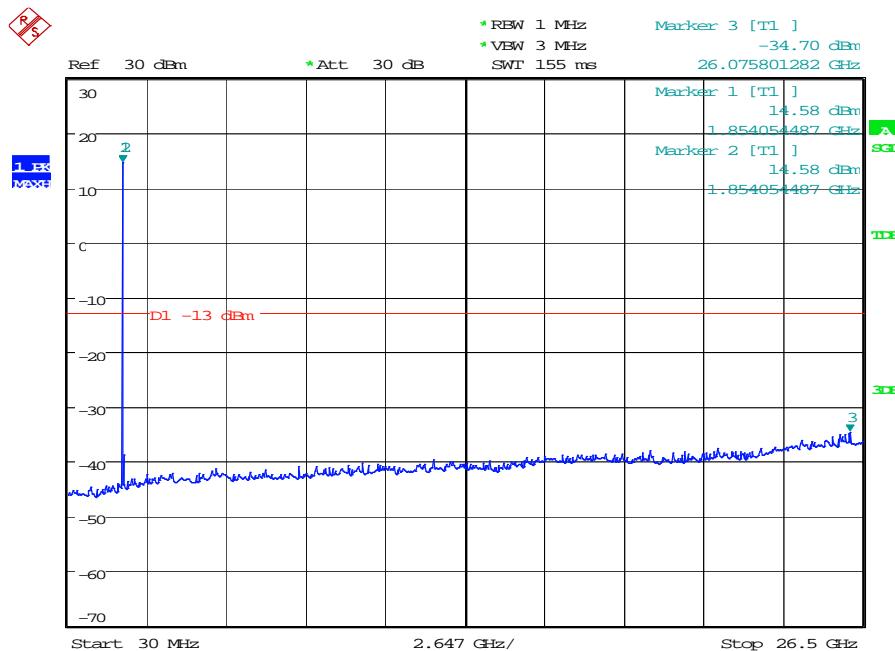
Date: 15.FEB.2017 15:16:33

BW5MHz-1852.5MHz,QPSK-25RB_LOW@Pass

```
                                    * RBW  1 MHz        Marker 3 [T1 ]
                                    * VBW  3 MHz                  -35.27 dBm
    Ref   30 dBm         * Att  30 dB   SWT 155 ms      26.415160256 GHz
```

Marker 1 [T1]
14.32 dBm
1.854054487 GHz
Marker 2 [T1]
14.32 dBm
1.854054487 GHz

1 PK
MAX

D1 -13 dBm

```
    Start  30 MHz            2.647 GHz/            Stop  26.5 GHz
```

Date: 15.FEB.2017 15:15:39

Report No.: FCC17010035A-5
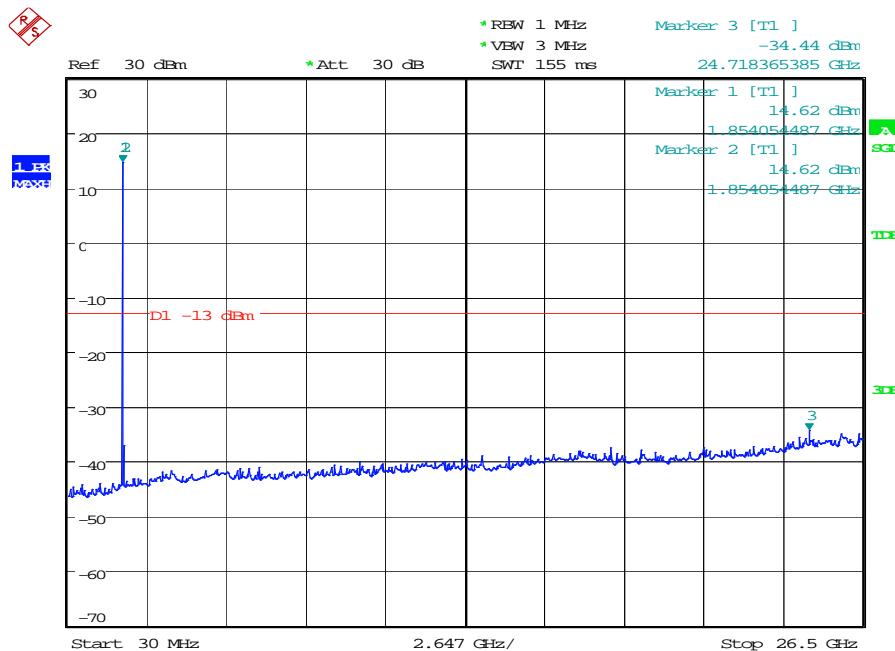
BW5MHz-1880MHz,Q16-25RB_LOW @Pass

```
                                      *RBW 1 MHz        Marker 3 [T1 ]
                                      *VBW 3 MHz                 -34.70 dBm
Ref   30 dBm          *Att  30 dB     SWT 155 ms        26.075801282 GHz
```

Marker 1 [T1]
14.58 dBm
1.854054487 GHz
Marker 2 [T1]
14.58 dBm
1.854054487 GHz

D1 −13 dBm

A SGL
TDF
3DB
1 PK
MAX

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
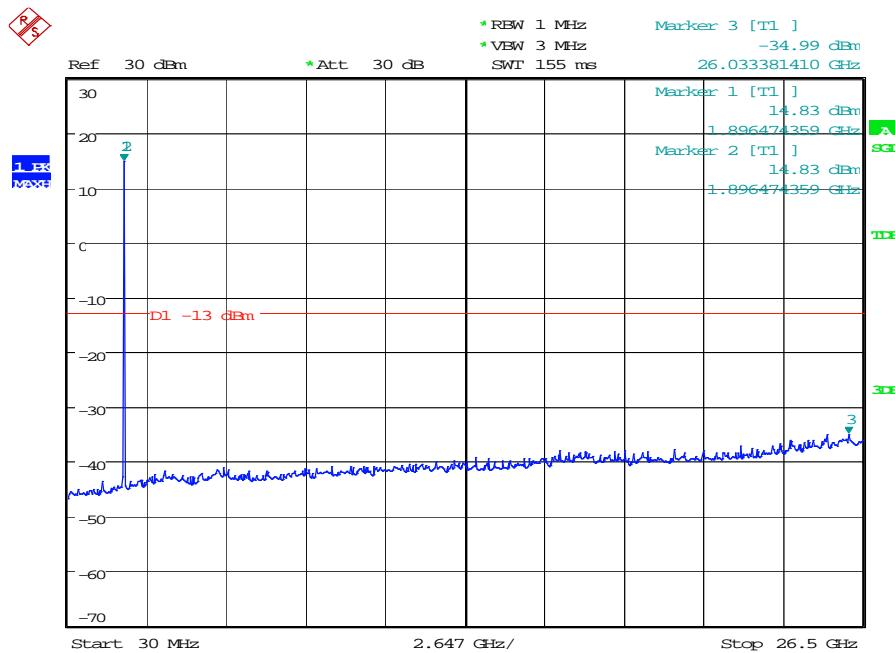
Date: 15.FEB.2017 15:19:53

BW5MHz-1880MHz,QPSK-25RB_LOW @Pass

```
                                      *RBW 1 MHz        Marker 3 [T1 ]
                                      *VBW 3 MHz                 -34.44 dBm
Ref   30 dBm          *Att  30 dB     SWT 155 ms        24.718365385 GHz
```

Marker 1 [T1]
14.62 dBm
1.854054487 GHz
Marker 2 [T1]
14.62 dBm
1.854054487 GHz

D1 −13 dBm

A SGL
TDF
3DB
1 PK
MAX

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 15.FEB.2017 15:19:19

Report No.: FCC17010035A-5
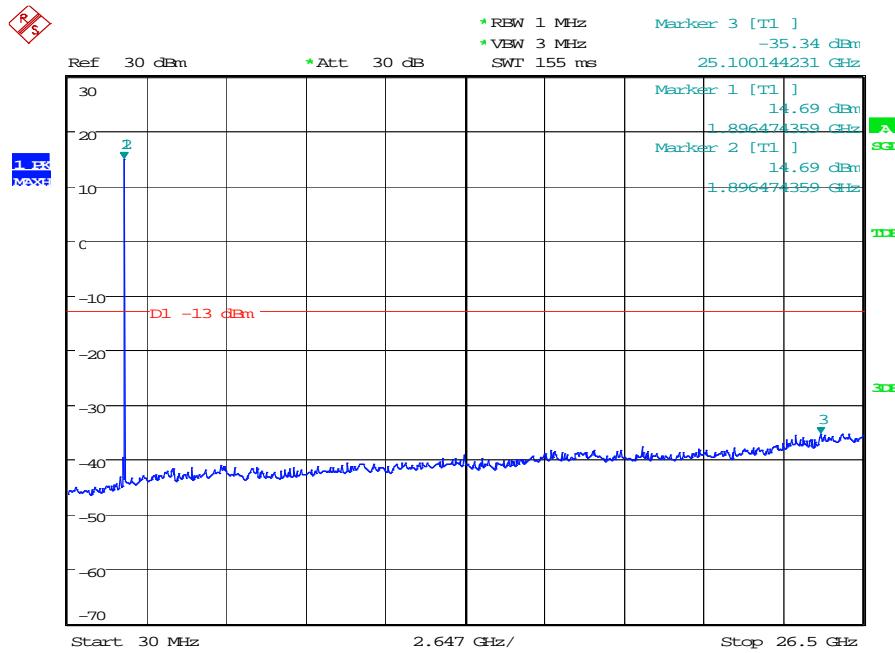
BW5MHz-1907.5MHz,Q16-25RB_LOW @Pass

*RBW 1 MHz	Marker 3 [T1]
*VBW 3 MHz	−34.99 dBm
Ref 30 dBm *Att 30 dB SWT 155 ms	26.033381410 GHz

Marker 1 [T1]
14.83 dBm
1.896474359 GHz
Marker 2 [T1]
14.83 dBm
1.896474359 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 15.FEB.2017 15:18:38
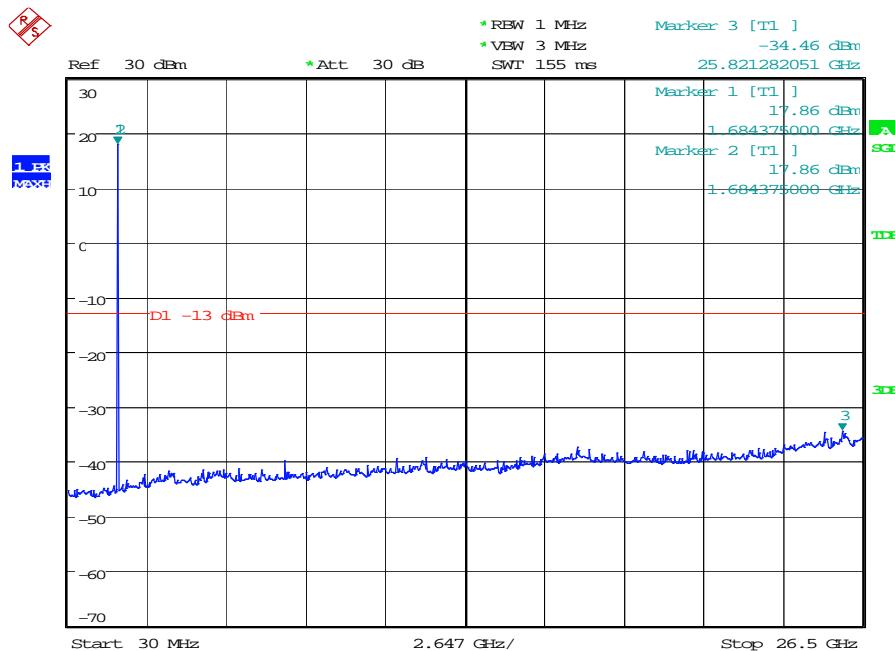
BW5MHz-1907.5MHz,QPSK-25RB_LOW @Pass

*RBW 1 MHz	Marker 3 [T1]
*VBW 3 MHz	−35.34 dBm
Ref 30 dBm *Att 30 dB SWT 155 ms	25.100144231 GHz

Marker 1 [T1]
14.69 dBm
1.896474359 GHz
Marker 2 [T1]
14.69 dBm
1.896474359 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 15.FEB.2017 15:17:36

Report No.: FCC17010035A-5
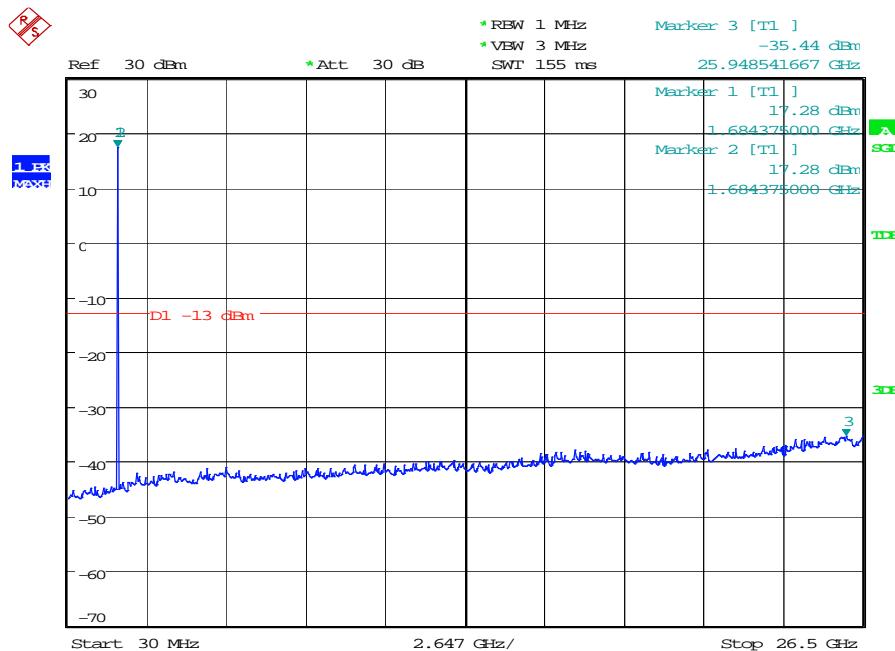
BAND 4@Conducted Spurious Emission

BW1.4MHz-1710.7MHz,Q16-6RB_LOW@Pass

*RBW 1 MHz	Marker 3 [T1]	
*VBW 3 MHz	−34.46 dBm	
Ref 30 dBm *Att 30 dB SWT 155 ms	25.821282051 GHz	

Marker 1 [T1]
17.86 dBm
1.684375000 GHz
Marker 2 [T1]
17.86 dBm
1.684375000 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
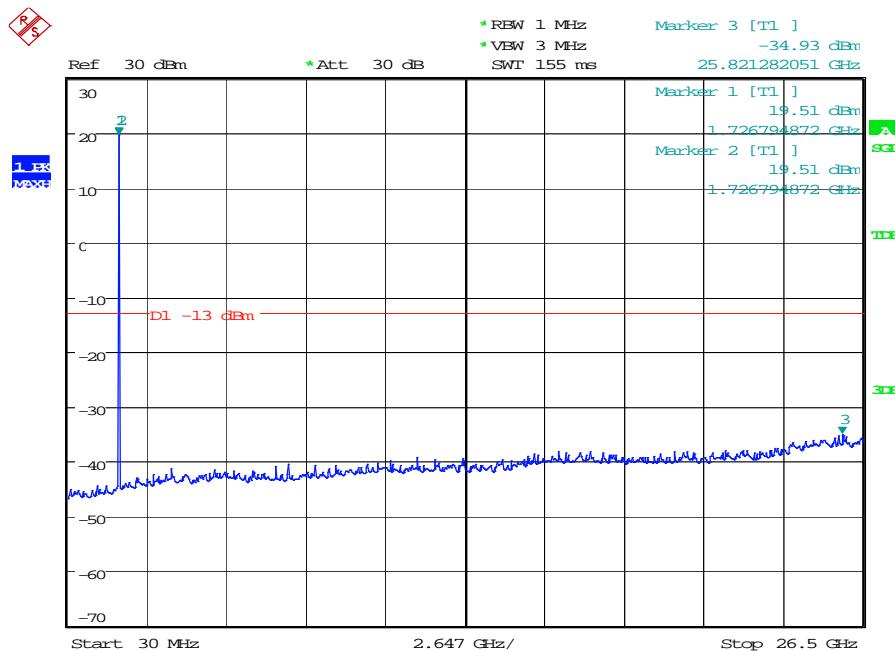
Date: 16.FEB.2017 08:22:51

BW1.4MHz-1710.7MHz,QPSK-6RB_LOW@Pass

*RBW 1 MHz	Marker 3 [T1]	
*VBW 3 MHz	−35.44 dBm	
Ref 30 dBm *Att 30 dB SWT 155 ms	25.948541667 GHz	

Marker 1 [T1]
17.28 dBm
1.684375000 GHz
Marker 2 [T1]
17.28 dBm
1.684375000 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 16.FEB.2017 08:21:46

Report No.: FCC17010035A-5
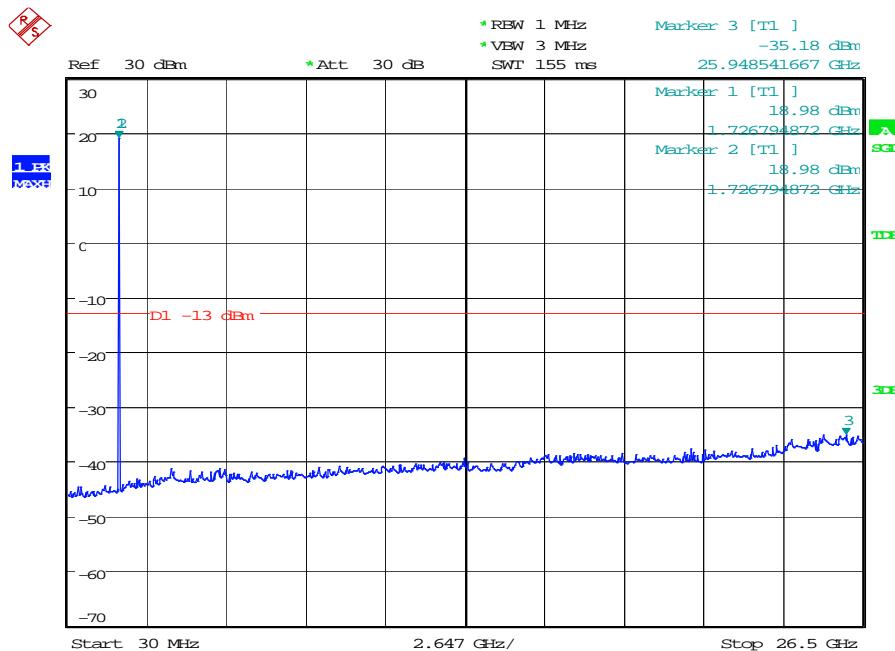
BW1.4MHz-1732.5MHz,Q16-6RB_LOW@Pass
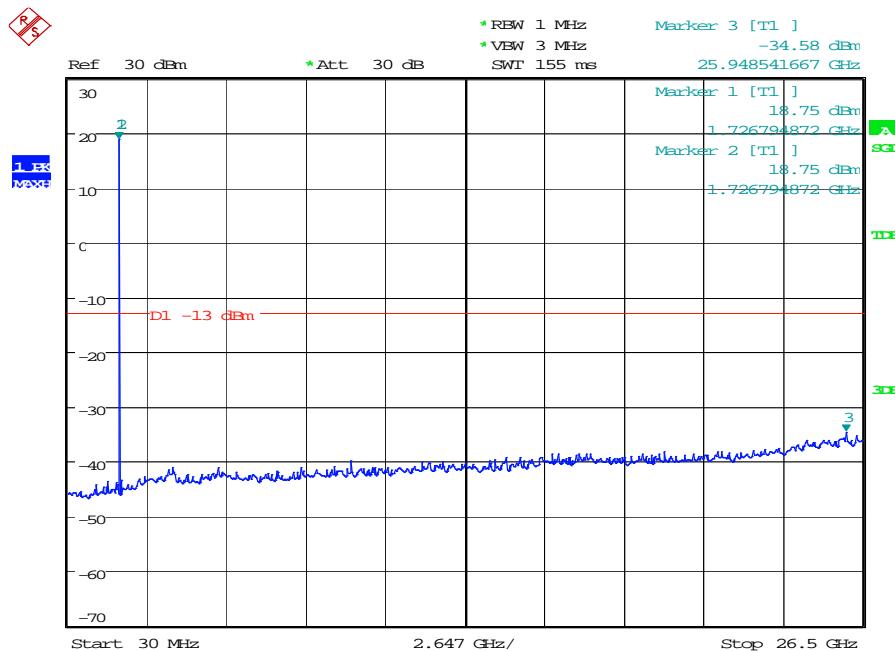
Date: 16.FEB.2017 08:26:17

BW1.4MHz-1732.5MHz,QPSK-6RB_LOW@Pass

Date: 16.FEB.2017 08:25:36

Report No.: FCC17010035A-5
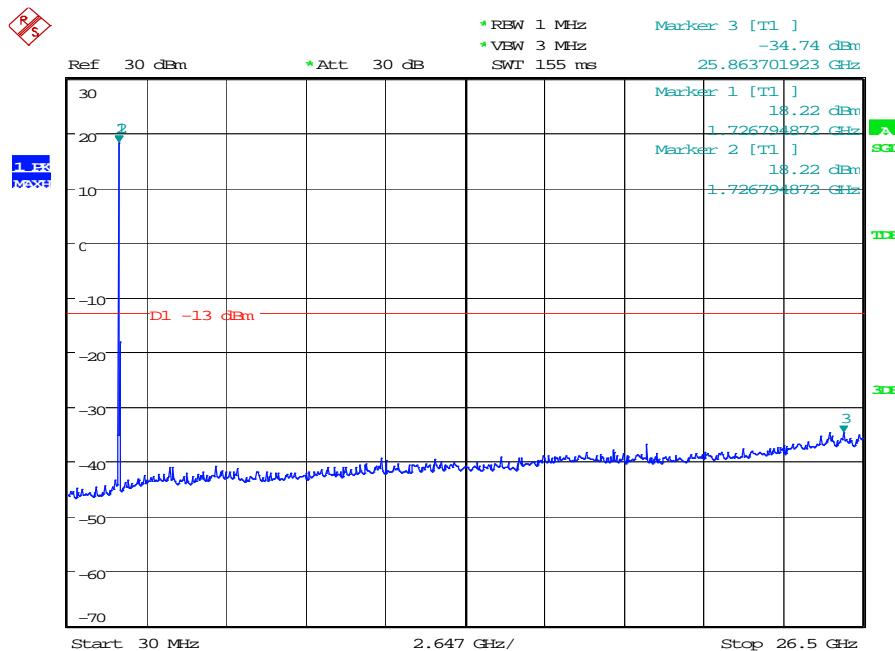
BW1.4MHz-1754.3MHz,Q16-6RB_LOW@Pass

	* RBW 1 MHz	Marker 3 [T1]
	* VBW 3 MHz	−34.58 dBm
Ref 30 dBm	* Att 30 dB SWT 155 ms	25.948541667 GHz

Marker 1 [T1]
18.75 dBm
1.726794872 GHz
Marker 2 [T1]
18.75 dBm
1.726794872 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
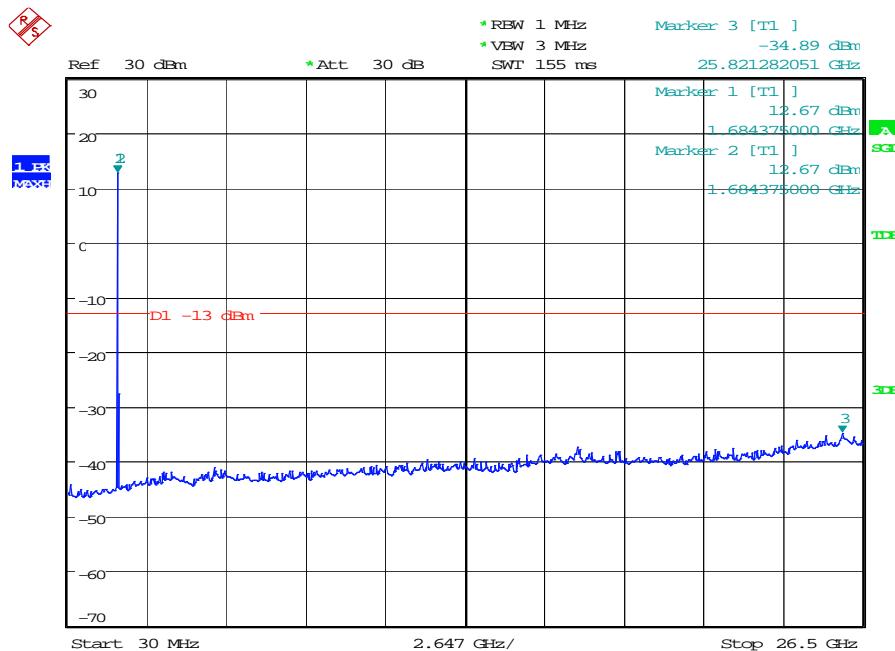
Date: 16.FEB.2017 08:24:48

BW1.4MHz-1754.3MHz,QPSK-6RB_LOW@Pass

	* RBW 1 MHz	Marker 3 [T1]
	* VBW 3 MHz	−34.74 dBm
Ref 30 dBm	* Att 30 dB SWT 155 ms	25.863701923 GHz

Marker 1 [T1]
18.22 dBm
1.726794872 GHz
Marker 2 [T1]
18.22 dBm
1.726794872 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 16.FEB.2017 08:23:50

Report No.: FCC17010035A-5
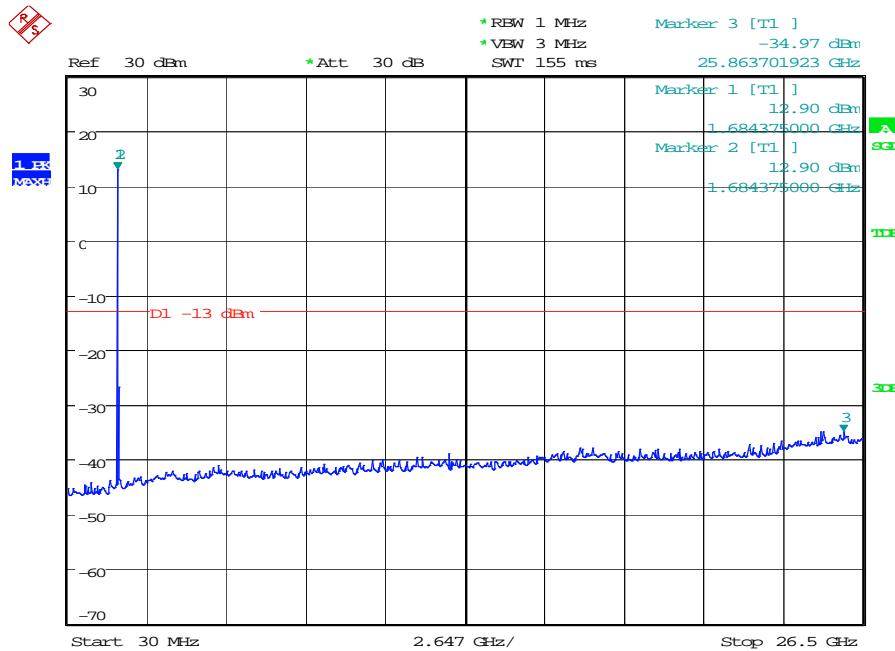
BW10MHz-1715MHz,Q16-50RB_LOW@Pass

*RBW 1 MHz	Marker 3 [T1]	
*VBW 3 MHz	−34.89 dBm	
Ref 30 dBm	*Att 30 dB	SWT 155 ms	25.821282051 GHz

Marker 1 [T1]
12.67 dBm
1.684375000 GHz
Marker 2 [T1]
12.67 dBm
1.684375000 GHz

D1 −13 dBm

Start 30 MHz 2.647 GHz/ Stop 26.5 GHz
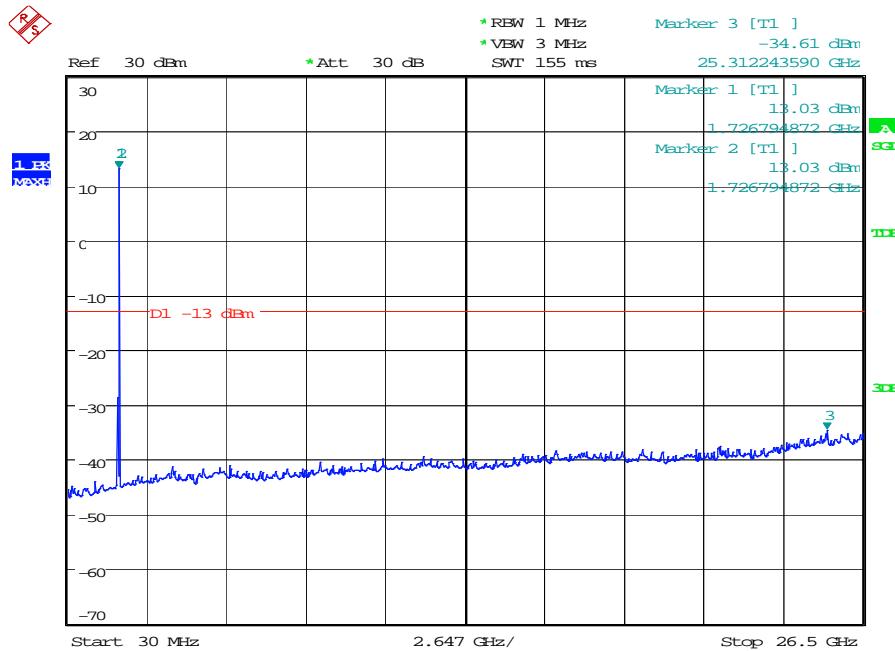
Date: 16.FEB.2017 08:36:50

BW10MHz-1715MHz,QPSK-50RB_LOW@Pass

*RBW 1 MHz	Marker 3 [T1]	
*VBW 3 MHz	−34.97 dBm	
Ref 30 dBm	*Att 30 dB	SWT 155 ms	25.863701923 GHz

Marker 1 [T1]
12.90 dBm
1.684375000 GHz
Marker 2 [T1]
12.90 dBm
1.684375000 GHz

D1 −13 dBm

Start 30 MHz 2.647 GHz/ Stop 26.5 GHz

Date: 16.FEB.2017 08:36:08

Report No.: FCC17010035A-5
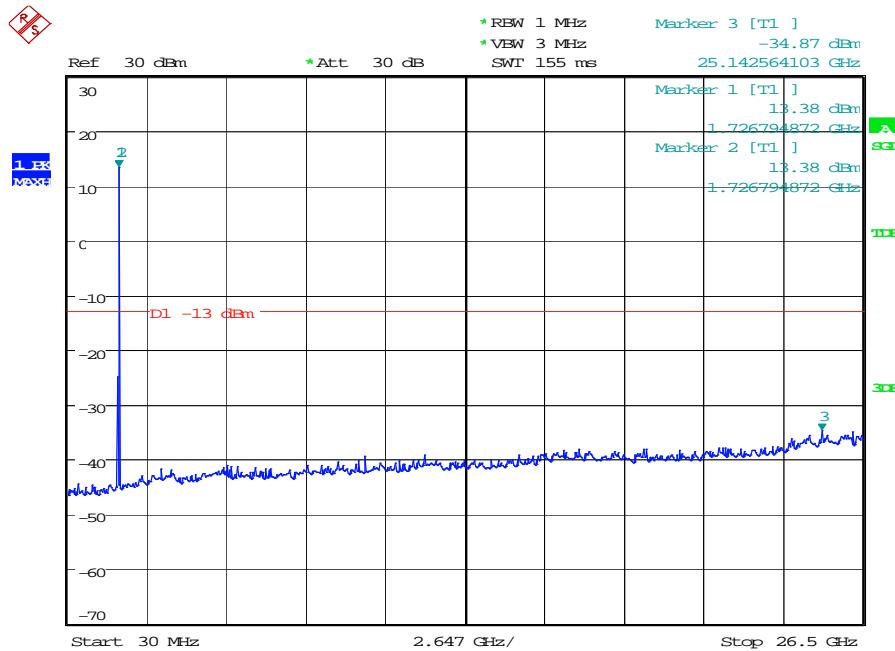
BW10MHz-1732.5MHz,Q16-50RB_LOW@Pass

```
                                    * RBW  1 MHz         Marker 3 [T1 ]
                                    * VBW  3 MHz                -34.61 dBm
     Ref   30 dBm        * Att  30 dB    SWT  155 ms      25.312243590 GHz
```

Marker 1 [T1]
13.03 dBm
1.726794872 GHz
Marker 2 [T1]
13.03 dBm
1.726794872 GHz

A SGL

TDF

3DB

1 PK
MAX

D1 -13 dBm

```
     Start  30 MHz              2.647 GHz/              Stop  26.5 GHz
```
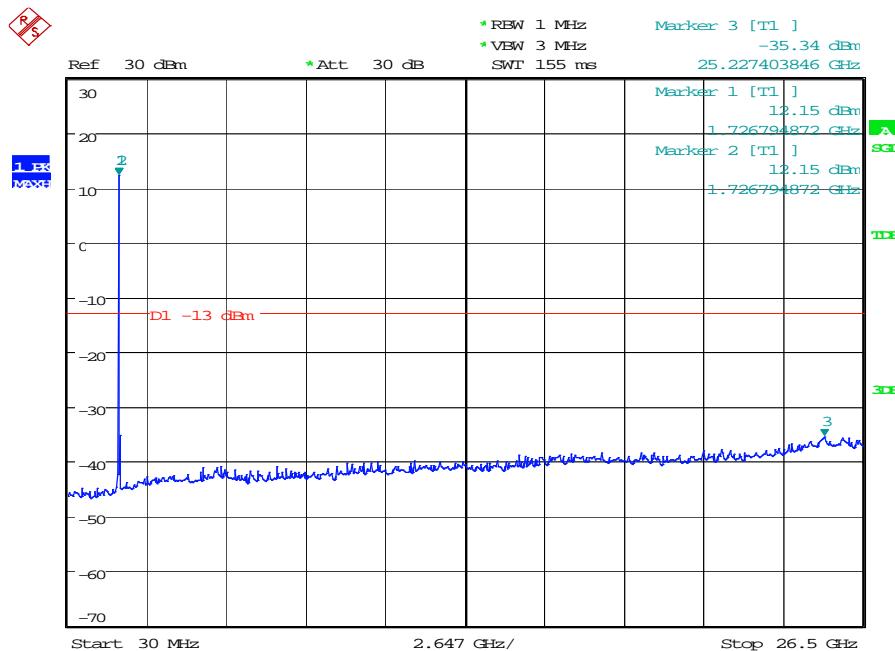
Date: 16.FEB.2017 08:39:19

BW10MHz-1732.5MHz,QPSK-50RB_LOW@Pass

```
                                    * RBW  1 MHz         Marker 3 [T1 ]
                                    * VBW  3 MHz                -34.87 dBm
     Ref   30 dBm        * Att  30 dB    SWT  155 ms      25.142564103 GHz
```

Marker 1 [T1]
13.38 dBm
1.726794872 GHz
Marker 2 [T1]
13.38 dBm
1.726794872 GHz

A SGL

TDF

3DB

1 PK
MAX

D1 -13 dBm

```
     Start  30 MHz              2.647 GHz/              Stop  26.5 GHz
```

Date: 16.FEB.2017 08:38:49

Report No.: FCC17010035A-5
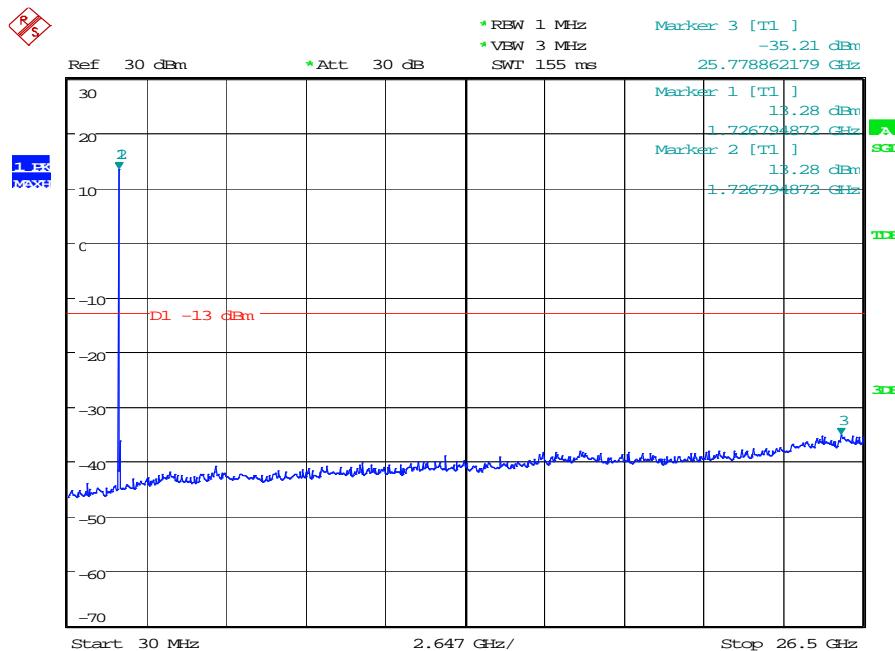
BW10MHz-1750MHz,Q16-50RB_LOW@Pass
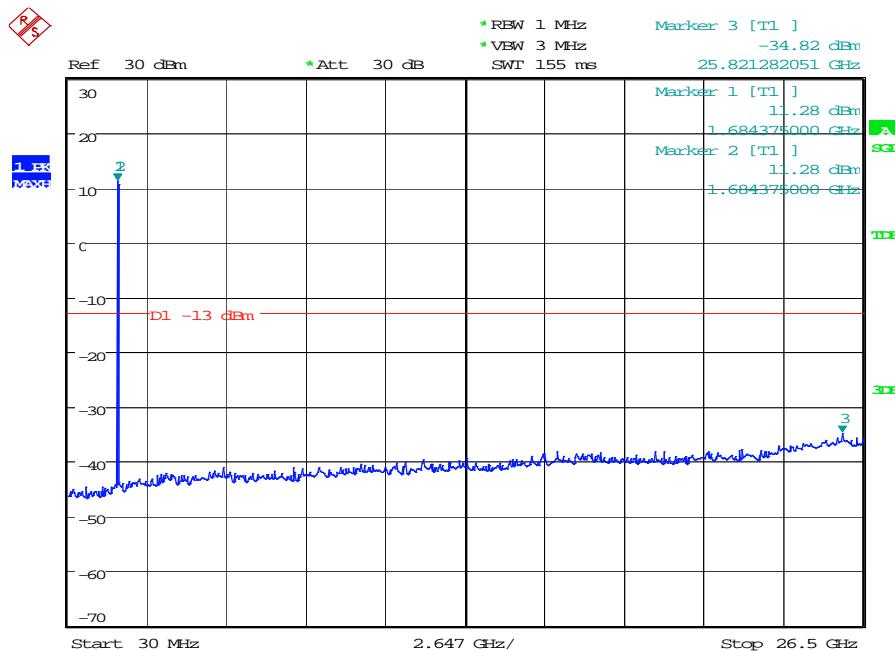
Date: 16.FEB.2017 08:38:15

BW10MHz-1750MHz,QPSK-50RB_LOW@Pass

Date: 16.FEB.2017 08:37:33

Report No.: FCC17010035A-5
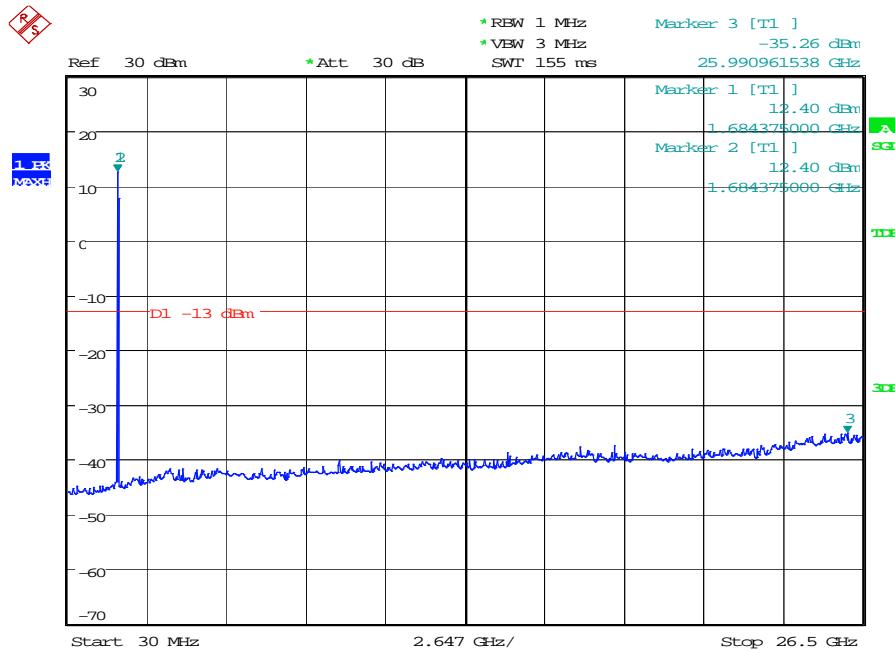
BW15MHz-1717.5MHz,Q16-75RB_LOW@Pass

	* RBW 1 MHz	Marker 3 [T1]
	* VBW 3 MHz	−34.82 dBm
Ref 30 dBm	* Att 30 dB SWT 155 ms	25.821282051 GHz

Marker 1 [T1]
11.28 dBm
1.684375000 GHz
Marker 2 [T1]
11.28 dBm
1.684375000 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
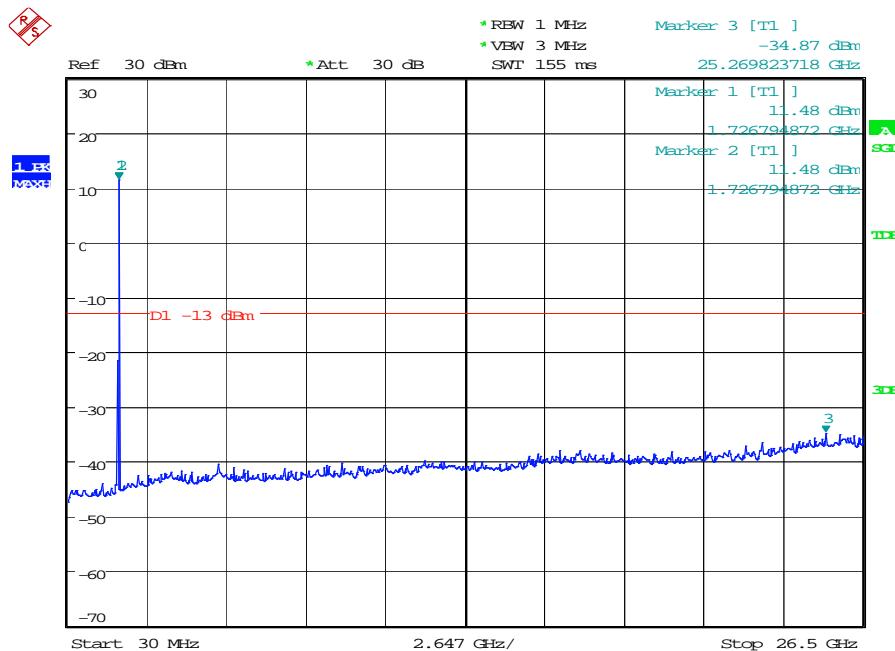
Date: 16.FEB.2017 08:40:40

BW15MHz-1717.5MHz,QPSK-75RB_LOW@Pass

	* RBW 1 MHz	Marker 3 [T1]
	* VBW 3 MHz	−35.26 dBm
Ref 30 dBm	* Att 30 dB SWT 155 ms	25.990961538 GHz

Marker 1 [T1]
12.40 dBm
1.684375000 GHz
Marker 2 [T1]
12.40 dBm
1.684375000 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 16.FEB.2017 08:39:58

Report No.: FCC17010035A-5
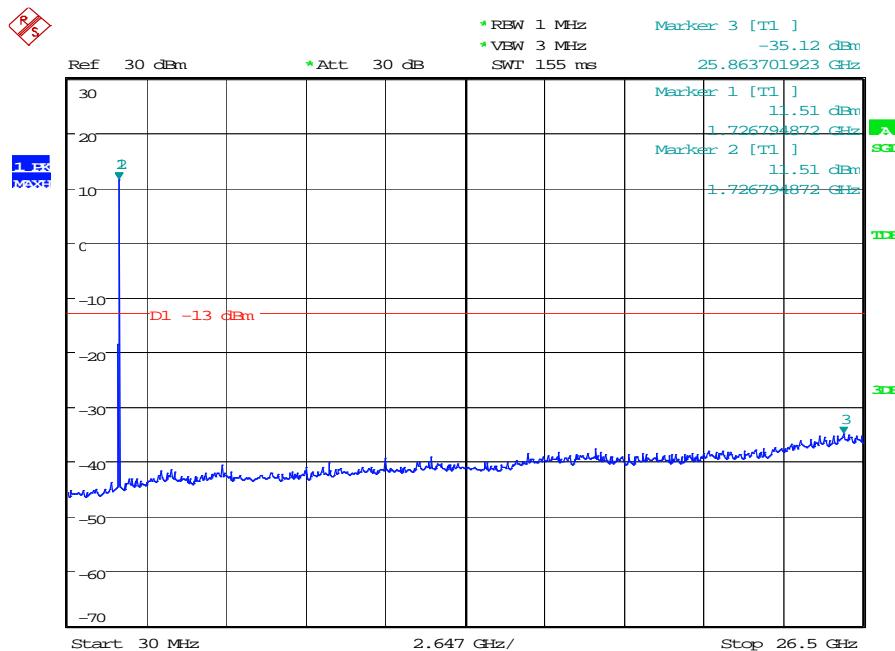
BW15MHz-1732.5MHz,Q16-75RB_LOW@Pass

*RBW 1 MHz	Marker 3 [T1]
*VBW 3 MHz	−34.87 dBm
Ref 30 dBm *Att 30 dB SWT 155 ms	25.269823718 GHz
	Marker 1 [T1]
	11.48 dBm
	1.726794872 GHz
	Marker 2 [T1]
	11.48 dBm
	1.726794872 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
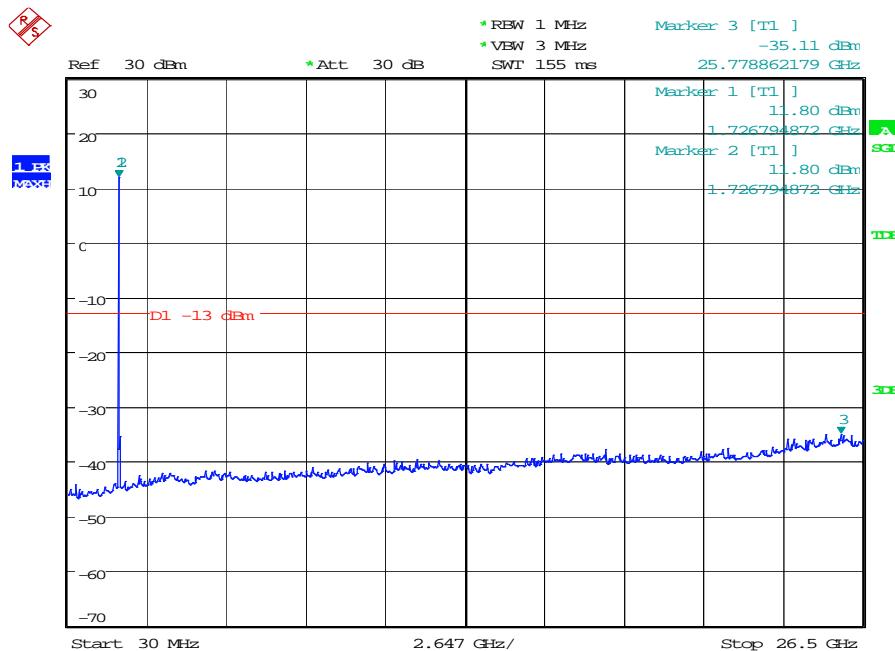
Date: 16.FEB.2017 08:43:08

BW15MHz-1732.5MHz,QPSK-75RB_LOW@Pass

*RBW 1 MHz	Marker 3 [T1]
*VBW 3 MHz	−35.12 dBm
Ref 30 dBm *Att 30 dB SWT 155 ms	25.863701923 GHz
	Marker 1 [T1]
	11.51 dBm
	1.726794872 GHz
	Marker 2 [T1]
	11.51 dBm
	1.726794872 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 16.FEB.2017 08:42:39

Report No.: FCC17010035A-5
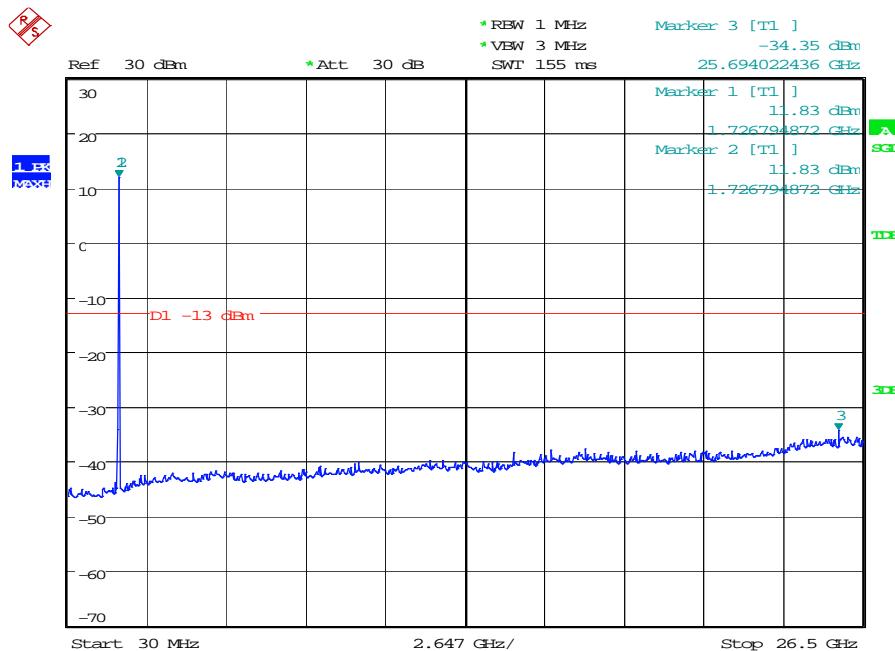
BW15MHz-1747.5MHz,Q16-75RB_LOW @Pass

*RBW 1 MHz	Marker 3 [T1]
*VBW 3 MHz	−35.11 dBm
Ref 30 dBm *Att 30 dB SWT 155 ms	25.778862179 GHz

Marker 1 [T1]
11.80 dBm
1.726794872 GHz

Marker 2 [T1]
11.80 dBm
1.726794872 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
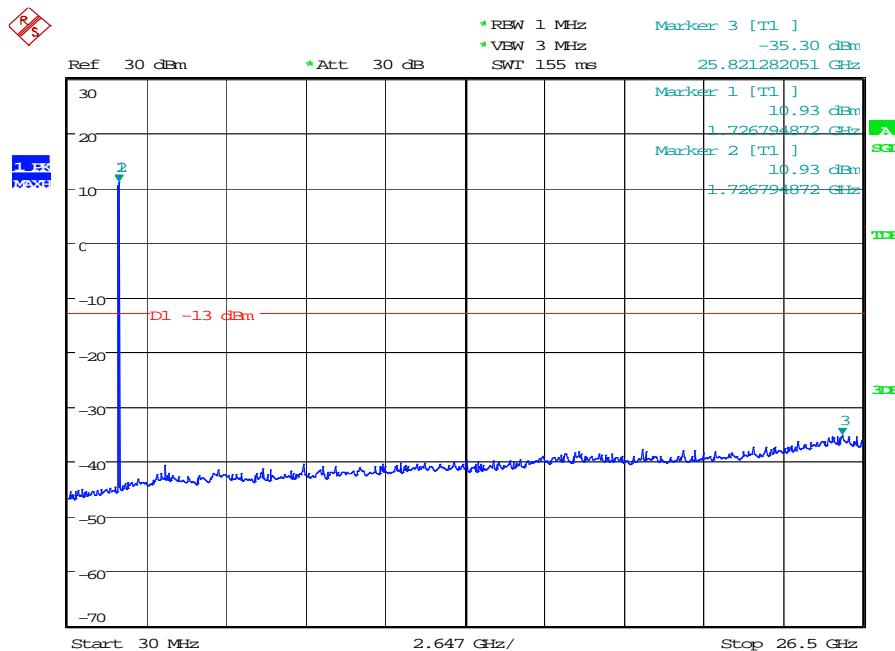
Date: 16.FEB.2017 08:42:05

BW15MHz-1747.5MHz,QPSK-75RB_LOW @Pass

*RBW 1 MHz	Marker 3 [T1]
*VBW 3 MHz	−34.35 dBm
Ref 30 dBm *Att 30 dB SWT 155 ms	25.694022436 GHz

Marker 1 [T1]
11.83 dBm
1.726794872 GHz

Marker 2 [T1]
11.83 dBm
1.726794872 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 16.FEB.2017 08:41:22

Report No.: FCC17010035A-5
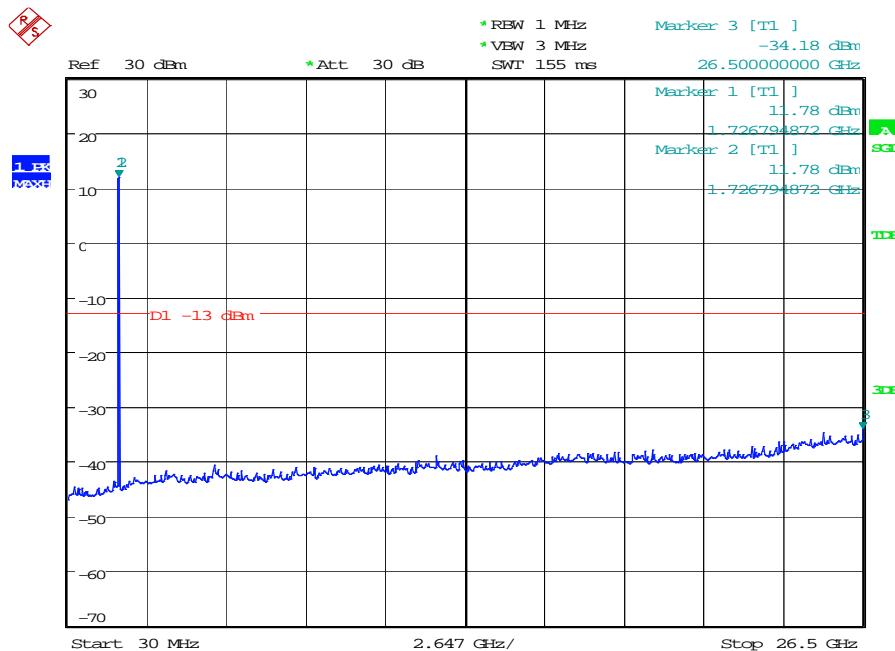
BW20MHz-1720MHz,Q16-100RB_LOW @Pass

	* RBW 1 MHz	Marker 3 [T1]
	* VBW 3 MHz	−35.30 dBm
Ref 30 dBm	* Att 30 dB SWT 155 ms	25.821282051 GHz

Marker 1 [T1]
10.93 dBm
1.726794872 GHz
Marker 2 [T1]
10.93 dBm
1.726794872 GHz

1 PK
MAX

D1 −13 dBm

A
SGL

TDF

3DB

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
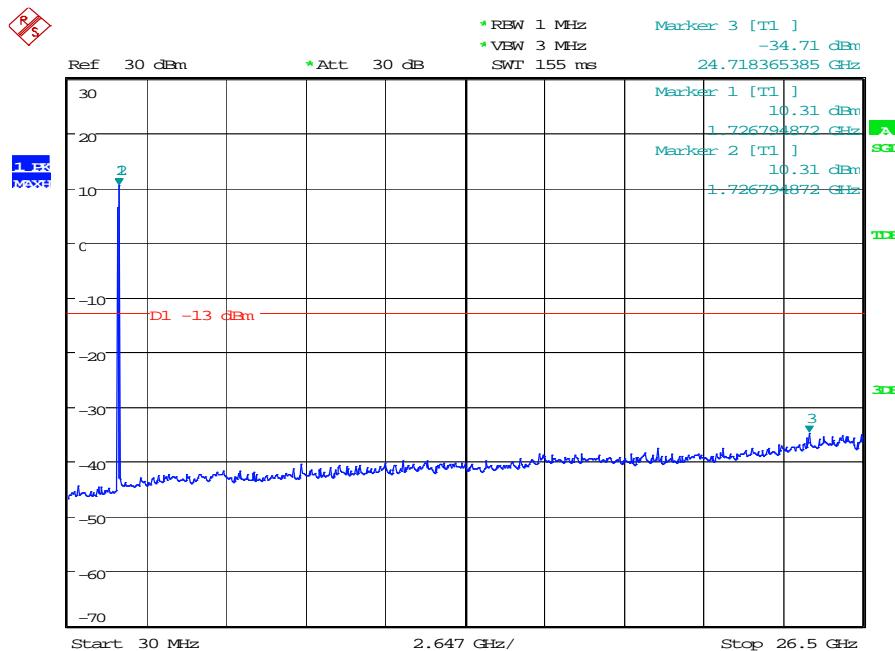
Date: 16.FEB.2017 08:44:33

BW20MHz-1720MHz,QPSK-100RB_LOW @Pass

	* RBW 1 MHz	Marker 3 [T1]
	* VBW 3 MHz	−34.18 dBm
Ref 30 dBm	* Att 30 dB SWT 155 ms	26.500000000 GHz

Marker 1 [T1]
11.78 dBm
1.726794872 GHz
Marker 2 [T1]
11.78 dBm
1.726794872 GHz

1 PK
MAX

D1 −13 dBm

A
SGL

TDF

3DB

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 16.FEB.2017 08:43:50

Report No.: FCC17010035A-5
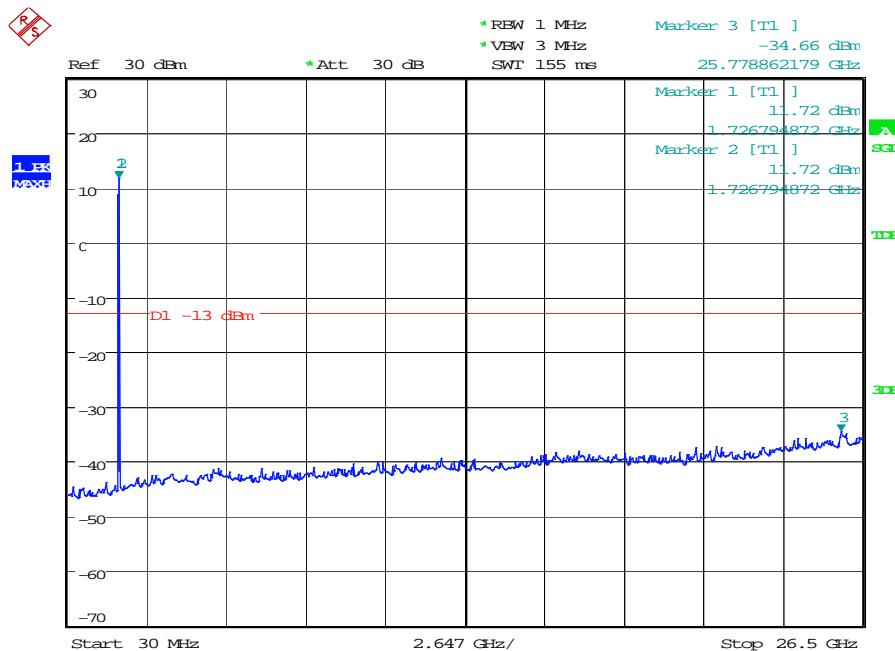
BW20MHz-1732.5MHz,Q16-100RB_LOW@Pass
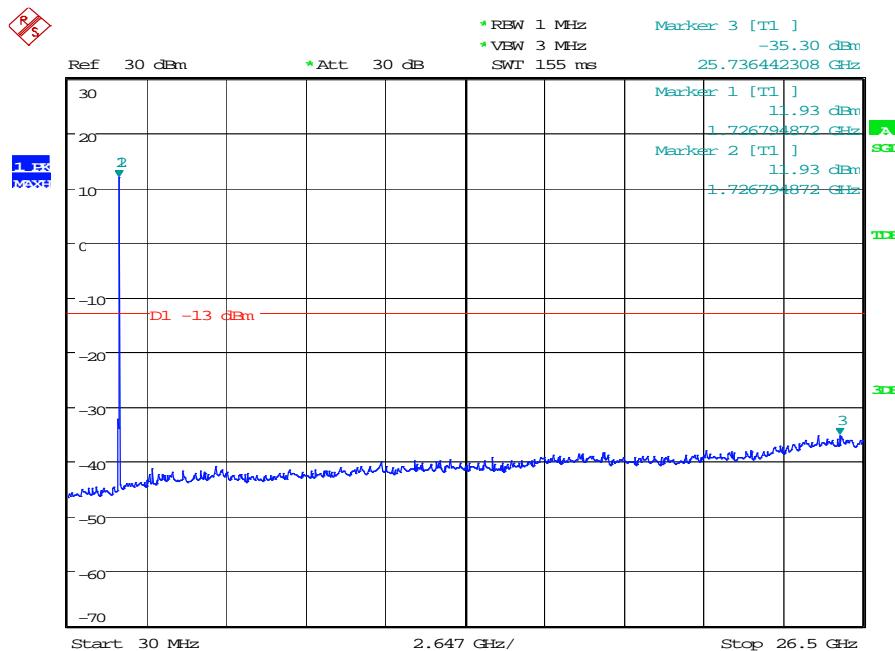
Date: 16.FEB.2017 08:47:04

BW20MHz-1732.5MHz,QPSK-100RB_LOW@Pass

Date: 16.FEB.2017 08:46:34

Report No.: FCC17010035A-5
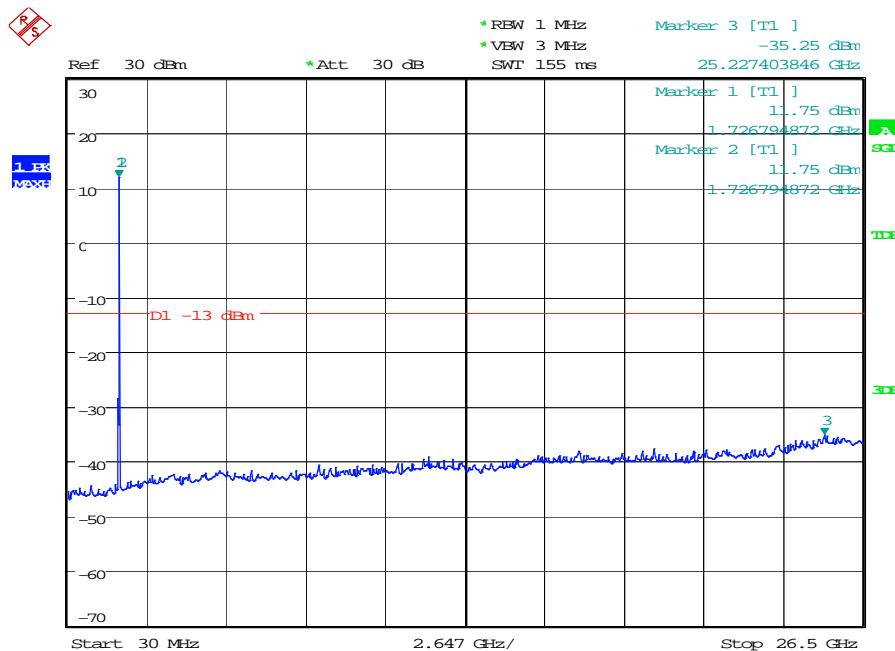
BW20MHz-1745MHz,Q16-100RB_LOW@Pass

*RBW 1 MHz	Marker 3 [T1]
*VBW 3 MHz	−35.30 dBm
Ref 30 dBm *Att 30 dB SWT 155 ms	25.736442308 GHz

Marker 1 [T1]
11.93 dBm
1.726794872 GHz
Marker 2 [T1]
11.93 dBm
1.726794872 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
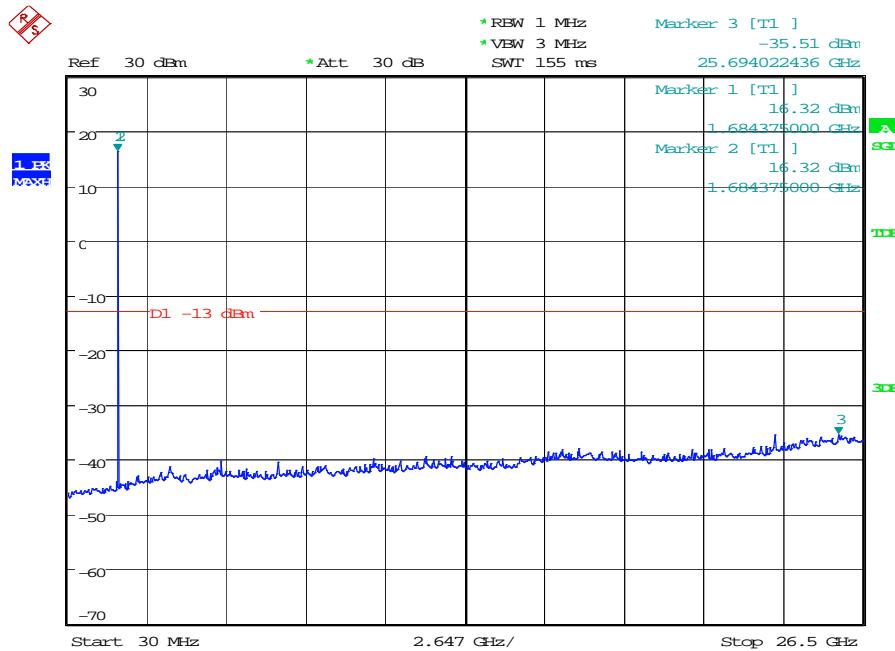
Date: 16.FEB.2017 08:45:58

BW20MHz-1745MHz,QPSK-100RB_LOW@Pass

*RBW 1 MHz	Marker 3 [T1]
*VBW 3 MHz	−35.25 dBm
Ref 30 dBm *Att 30 dB SWT 155 ms	25.227403846 GHz

Marker 1 [T1]
11.75 dBm
1.726794872 GHz
Marker 2 [T1]
11.75 dBm
1.726794872 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 16.FEB.2017 08:45:15
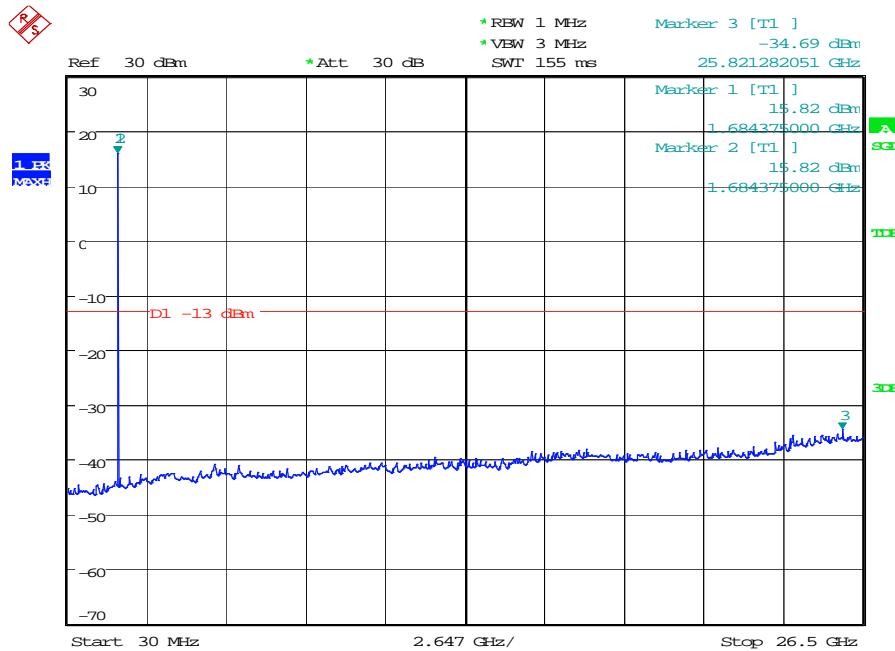
Report No.: FCC17010035A-5

BW3MHz-1711.5MHz,Q16-15RB_LOW@Pass

```
                                    *RBW  1 MHz      Marker 3 [T1 ]
                                    *VBW  3 MHz              -35.51 dBm
    Ref  30 dBm          *Att  30 dB   SWT 155 ms      25.694022436 GHz
                                              Marker 1 [T1 ]
     30                                            16.32 dBm
                                              1.684375000 GHz
     20  2                                    Marker 2 [T1 ]
                                                   16.32 dBm
     10                                       1.684375000 GHz
      0
    -10  D1 -13 dBm
    -20
    -30                                                    3
    -40
    -50
    -60
    -70
    Start  30 MHz           2.647 GHz/            Stop  26.5 GHz
```
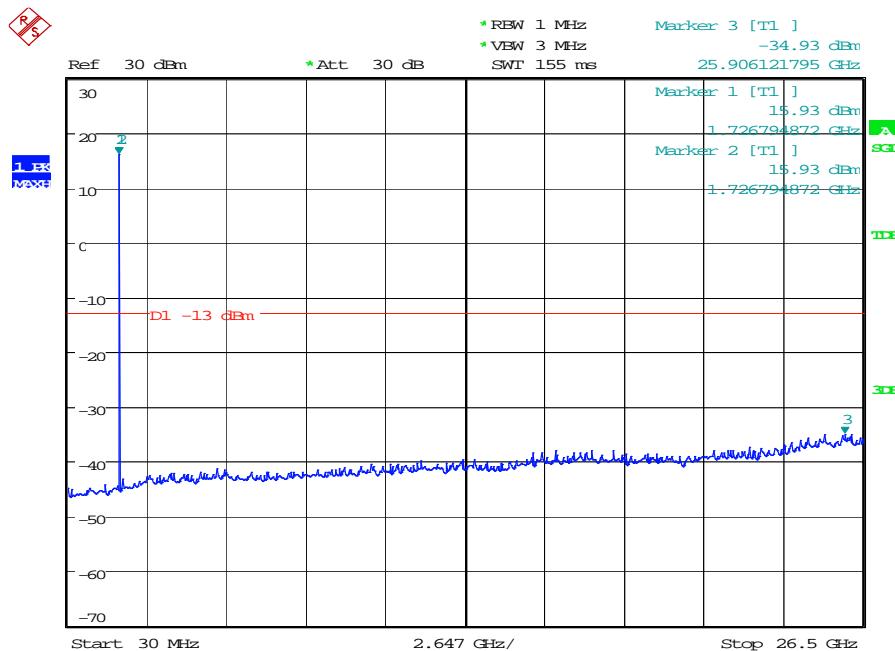
Date: 16.FEB.2017 08:28:13

BW3MHz-1711.5MHz,QPSK-15RB_LOW@Pass

```
                                    *RBW  1 MHz      Marker 3 [T1 ]
                                    *VBW  3 MHz              -34.69 dBm
    Ref  30 dBm          *Att  30 dB   SWT 155 ms      25.821282051 GHz
                                              Marker 1 [T1 ]
     30                                            15.82 dBm
                                              1.684375000 GHz
     20  2                                    Marker 2 [T1 ]
                                                   15.82 dBm
     10                                       1.684375000 GHz
      0
    -10  D1 -13 dBm
    -20
    -30                                                    3
    -40
    -50
    -60
    -70
    Start  30 MHz           2.647 GHz/            Stop  26.5 GHz
```

Date: 16.FEB.2017 08:27:13

Report No.: FCC17010035A-5
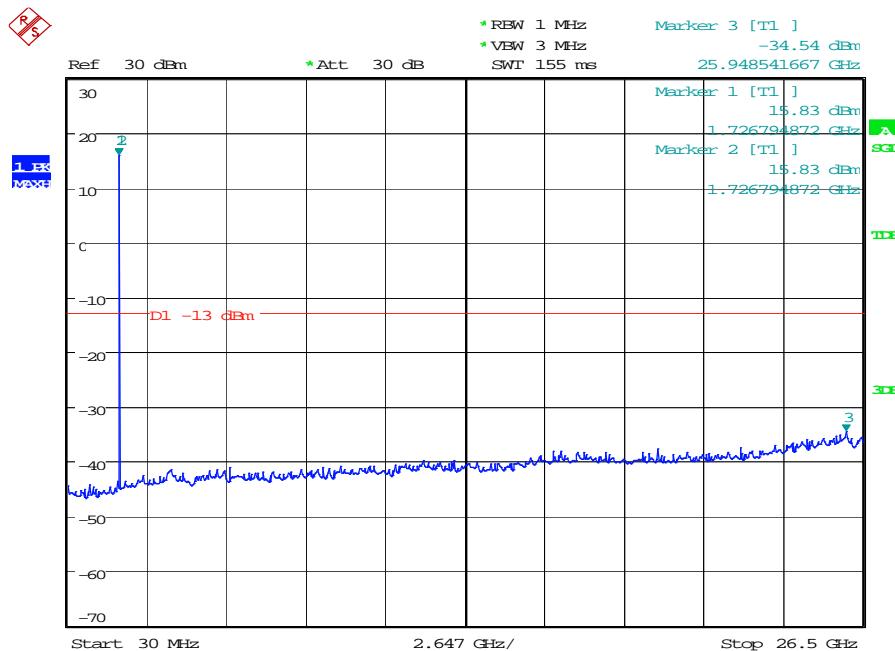
BW3MHz-1732.5MHz,Q16-15RB_LOW@Pass

```
                                    * RBW 1 MHz        Marker 3 [T1 ]
                                    * VBW 3 MHz                -34.93 dBm
   Ref   30 dBm        * Att  30 dB   SWT 155 ms      25.906121795 GHz
    30                                       Marker 1 [T1 ]
                                                     15.93 dBm
    20                                            1.726794872 GHz
1 PK                                        Marker 2 [T1 ]
MAX                                                  15.93 dBm
    10                                            1.726794872 GHz
     C
   -10   D1 -13 dBm
   -20
   -30                                                          3
   -40
   -50
   -60
   -70
   Start  30 MHz          2.647 GHz/          Stop  26.5 GHz
```
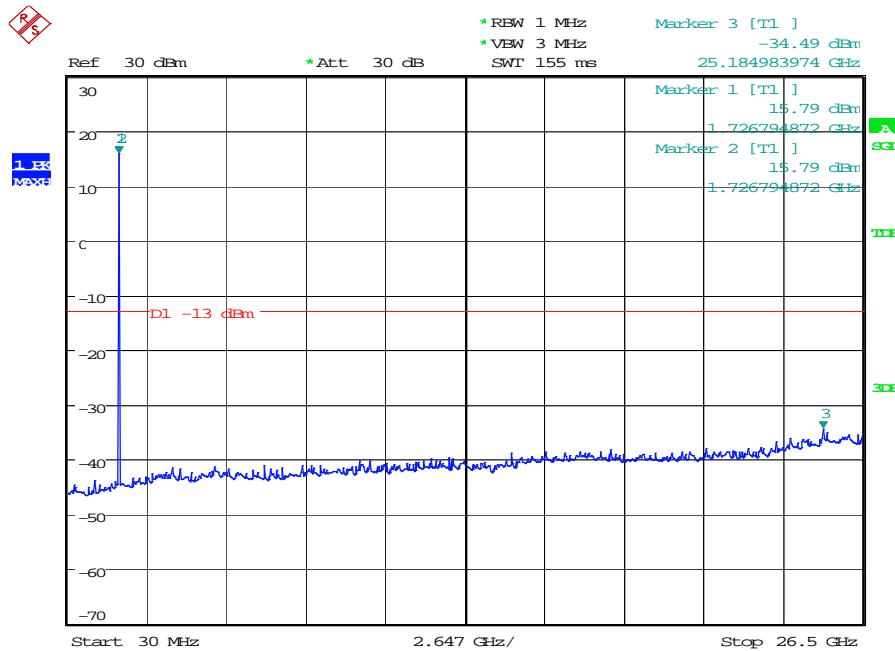
Date: 16.FEB.2017 08:31:06

BW3MHz-1732.5MHz,QPSK-15RB_LOW@Pass

```
                                    * RBW 1 MHz        Marker 3 [T1 ]
                                    * VBW 3 MHz                -34.54 dBm
   Ref   30 dBm        * Att  30 dB   SWT 155 ms      25.948541667 GHz
    30                                       Marker 1 [T1 ]
                                                     15.83 dBm
    20                                            1.726794872 GHz
1 PK                                        Marker 2 [T1 ]
MAX                                                  15.83 dBm
    10                                            1.726794872 GHz
     C
   -10   D1 -13 dBm
   -20
   -30                                                          3
   -40
   -50
   -60
   -70
   Start  30 MHz          2.647 GHz/          Stop  26.5 GHz
```

Date: 16.FEB.2017 08:30:33

Report No.: FCC17010035A-5
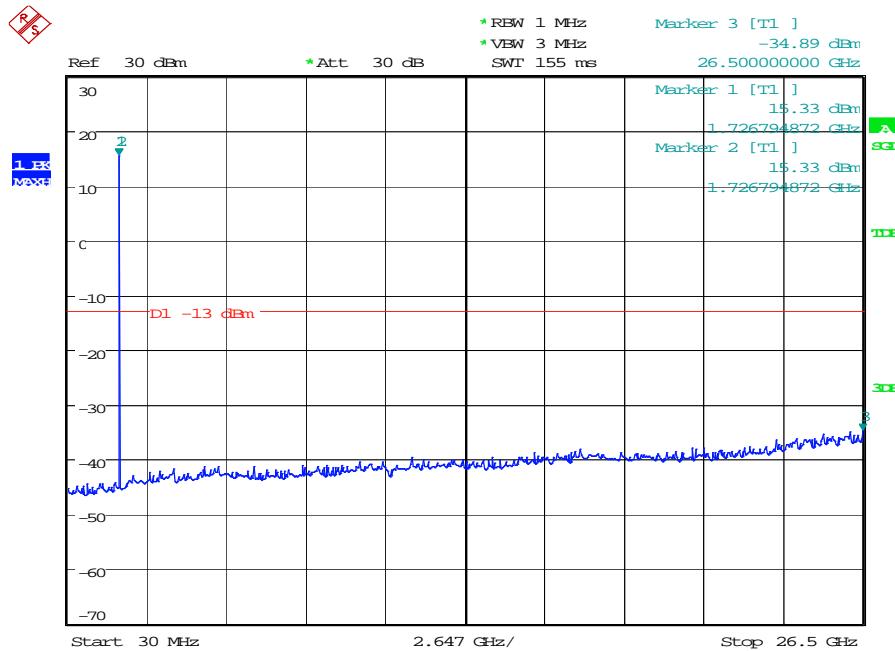
BW3MHz-1753.5MHz,Q16-15RB_LOW@Pass

```
                                      *RBW  1 MHz      Marker 3 [T1 ]
                                      *VBW  3 MHz             -34.49 dBm
     Ref   30 dBm          *Att   30 dB   SWT 155 ms    25.184983974 GHz
```
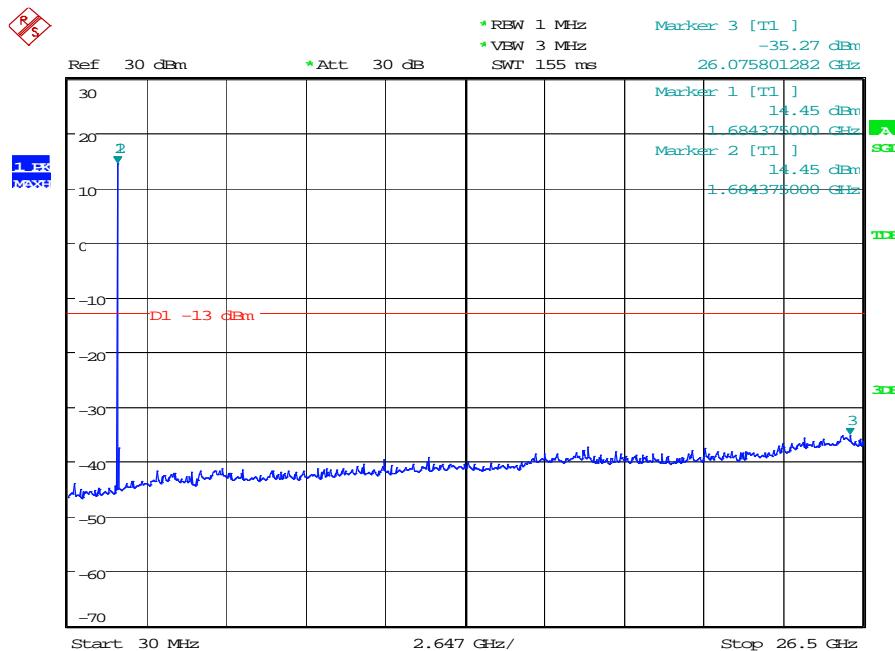


```
Date: 16.FEB.2017  08:29:53
```

BW3MHz-1753.5MHz,QPSK-15RB_LOW@Pass

```
                                      *RBW  1 MHz      Marker 3 [T1 ]
                                      *VBW  3 MHz             -34.89 dBm
     Ref   30 dBm          *Att   30 dB   SWT 155 ms    26.500000000 GHz
```



```
Date: 16.FEB.2017  08:29:03
```

Report No.: FCC17010035A-5
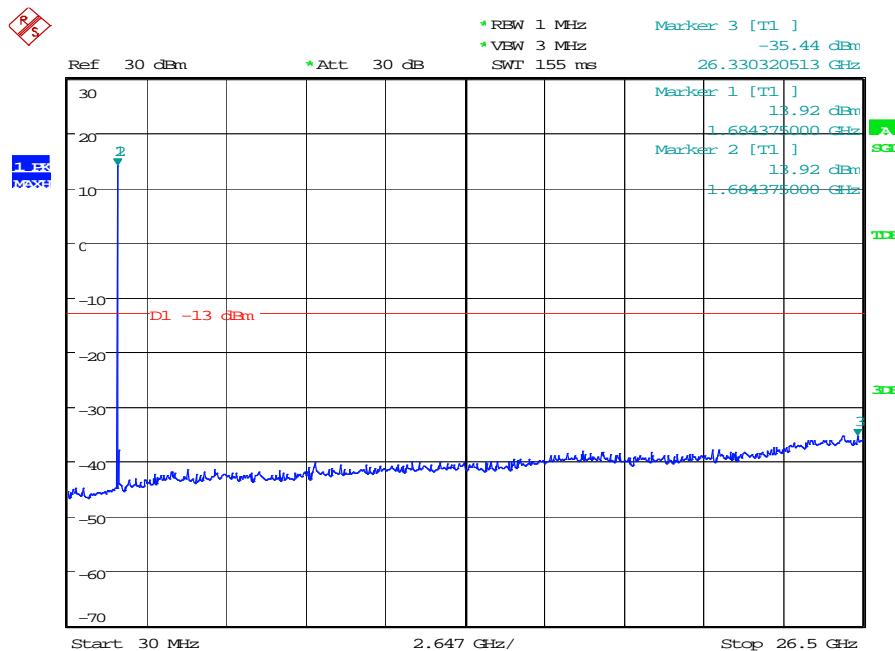
BW5MHz-1712.5MHz,Q16-25RB_LOW @Pass

*RBW 1 MHz	Marker 3 [T1]
*VBW 3 MHz	−35.27 dBm
Ref 30 dBm *Att 30 dB SWT 155 ms	26.075801282 GHz

Marker 1 [T1]
14.45 dBm
1.684375000 GHz
Marker 2 [T1]
14.45 dBm
1.684375000 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
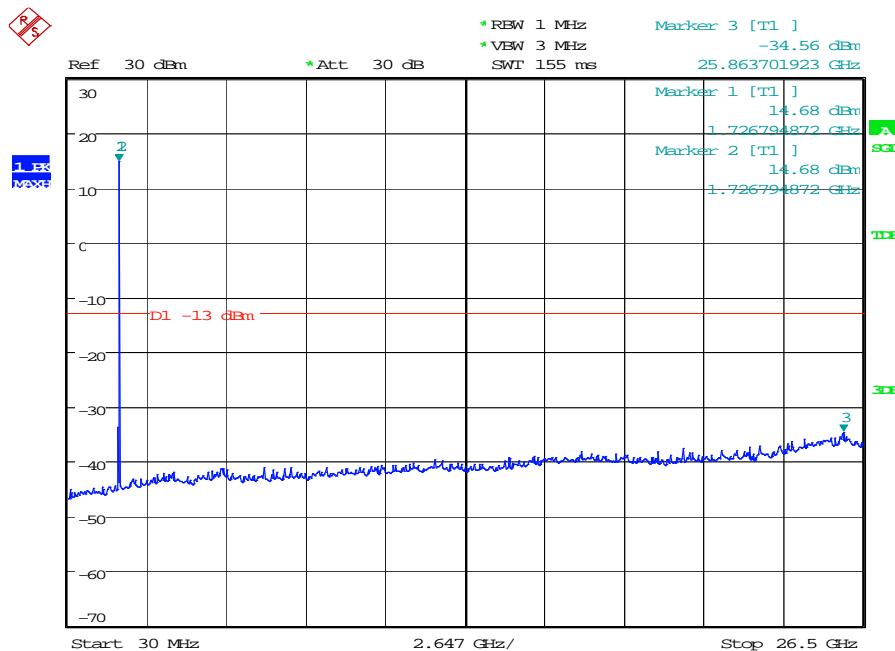
Date: 16.FEB.2017 08:32:57

BW5MHz-1712.5MHz,QPSK-25RB_LOW @Pass

*RBW 1 MHz	Marker 3 [T1]
*VBW 3 MHz	−35.44 dBm
Ref 30 dBm *Att 30 dB SWT 155 ms	26.330320513 GHz

Marker 1 [T1]
13.92 dBm
1.684375000 GHz
Marker 2 [T1]
13.92 dBm
1.684375000 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 16.FEB.2017 08:32:03

Report No.: FCC17010035A-5
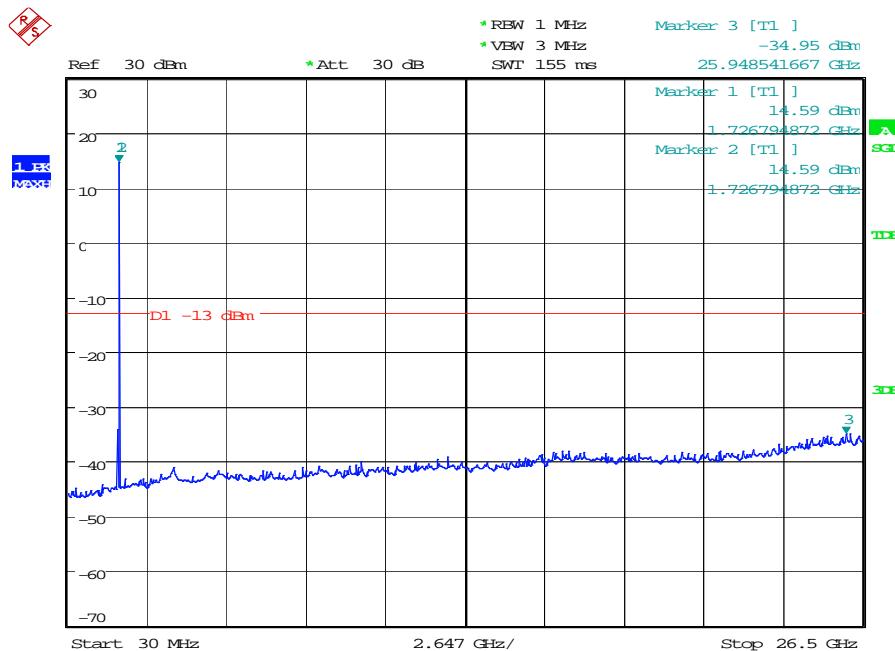
BW5MHz-1732.5MHz,Q16-25RB_LOW @Pass

RBW 1 MHz   Marker 3 [T1]
VBW 3 MHz   −34.56 dBm
Ref 30 dBm   Att 30 dB   SWT 155 ms   25.863701923 GHz

Marker 1 [T1]
14.68 dBm
1.726794872 GHz
Marker 2 [T1]
14.68 dBm
1.726794872 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
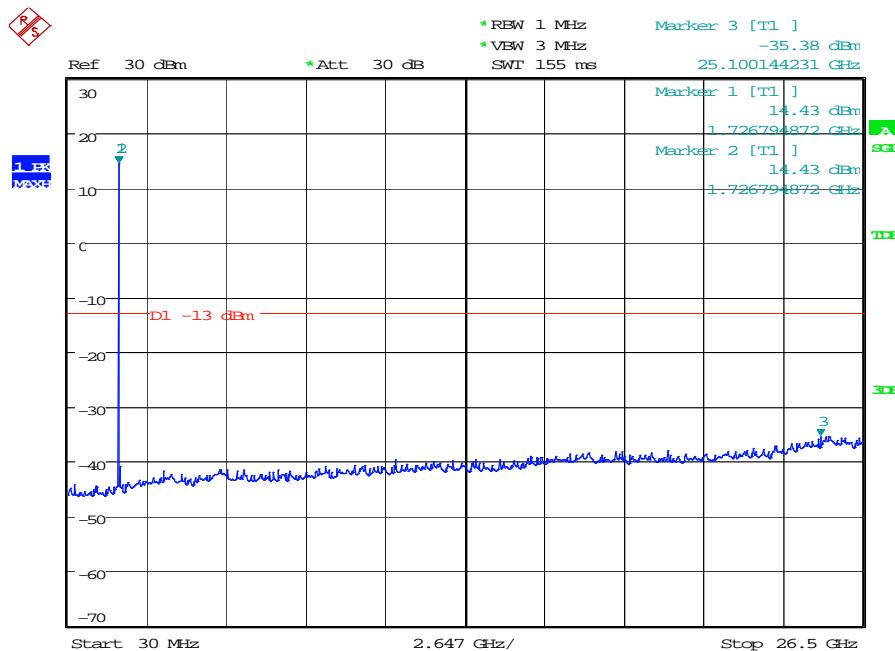
Date: 16.FEB.2017 08:35:29

BW5MHz-1732.5MHz,QPSK-25RB_LOW @Pass

RBW 1 MHz   Marker 3 [T1]
VBW 3 MHz   −34.95 dBm
Ref 30 dBm   Att 30 dB   SWT 155 ms   25.948541667 GHz

Marker 1 [T1]
14.59 dBm
1.726794872 GHz
Marker 2 [T1]
14.59 dBm
1.726794872 GHz

D1 −13 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 16.FEB.2017 08:35:00

Report No.: FCC17010035A-5
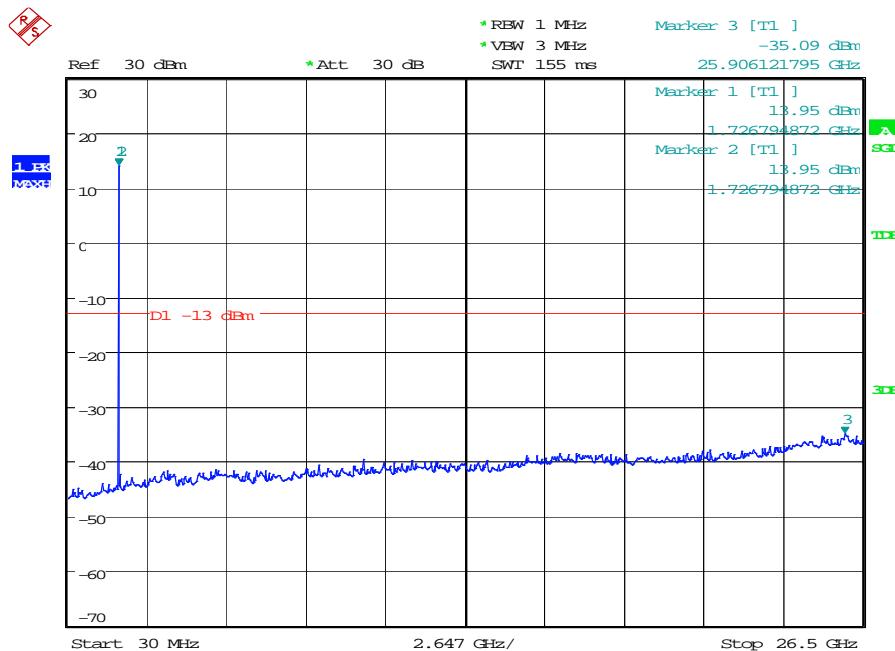
BW5MHz-1752.5MHz,Q16-25RB_LOW @Pass

```
                                        * RBW 1 MHz      Marker 3 [T1 ]
                                        * VBW 3 MHz              -35.38 dBm
  Ref   30 dBm            * Att  30 dB   SWT 155 ms      25.100144231 GHz
   30                                             Marker 1 [T1 ]
                                                         14.43 dBm
   20                                                1.726794872 GHz     A
                                                  Marker 2 [T1 ]        SGL
   10                                                    14.43 dBm
                                                     1.726794872 GHz
    C                                                                   TDF
  -10    D1 -13 dBm
  -20
  -30                                                          3        3DB
  -40
  -50
  -60
  -70
  Start  30 MHz              2.647 GHz/              Stop  26.5 GHz
```

Date: 16.FEB.2017 08:34:25
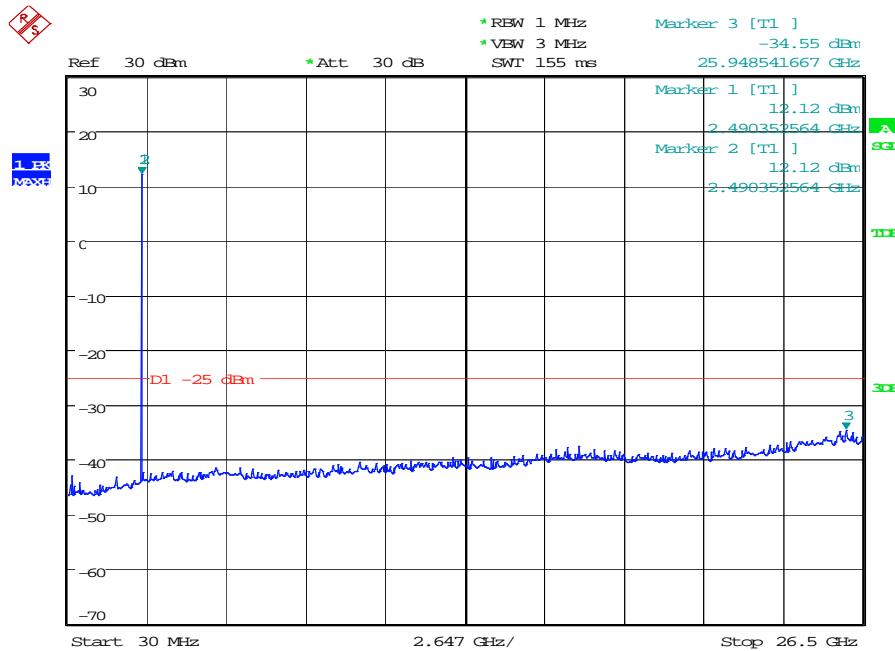
BW5MHz-1752.5MHz,QPSK-25RB_LOW @Pass

```
                                        * RBW 1 MHz      Marker 3 [T1 ]
                                        * VBW 3 MHz              -35.09 dBm
  Ref   30 dBm            * Att  30 dB   SWT 155 ms      25.906121795 GHz
   30                                             Marker 1 [T1 ]
                                                         13.95 dBm
   20                                                1.726794872 GHz     A
                                                  Marker 2 [T1 ]        SGL
   10                                                    13.95 dBm
                                                     1.726794872 GHz
    C                                                                   TDF
  -10    D1 -13 dBm
  -20
  -30                                                          3        3DB
  -40
  -50
  -60
  -70
  Start  30 MHz              2.647 GHz/              Stop  26.5 GHz
```

Date: 16.FEB.2017 08:33:41

Report No.: FCC17010035A-5
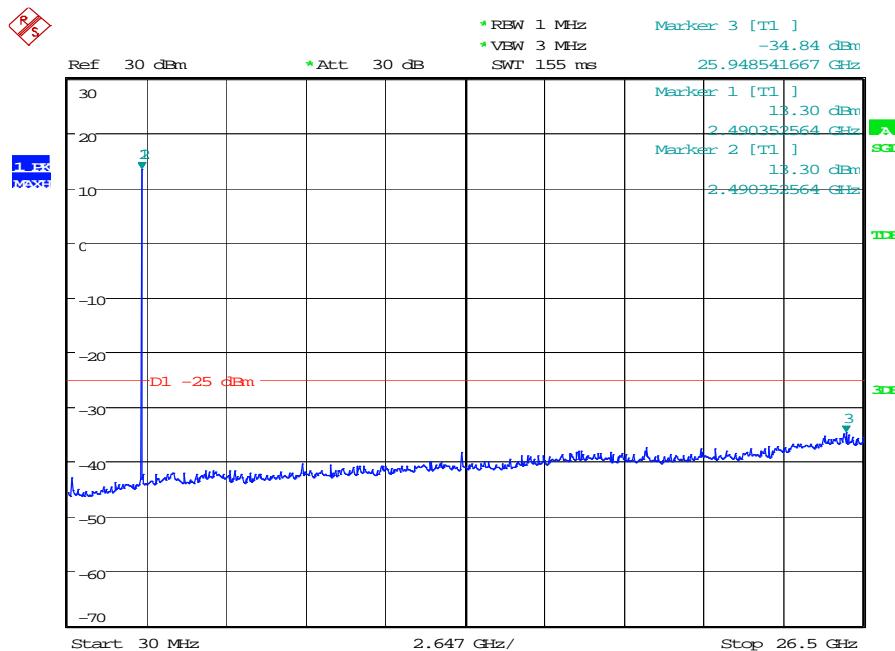
BAND 7@Conducted Spurious Emission

BW10MHz-2505MHz,Q16-50RB_LOW@Pass

☀ RBW 1 MHz	Marker 3 [T1]	
☀ VBW 3 MHz	−34.55 dBm	
Ref 30 dBm ☀ Att 30 dB SWT 155 ms	25.948541667 GHz	

Marker 1 [T1]
12.12 dBm
2.490352564 GHz
Marker 2 [T1]
12.12 dBm
2.490352564 GHz

D1 −25 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
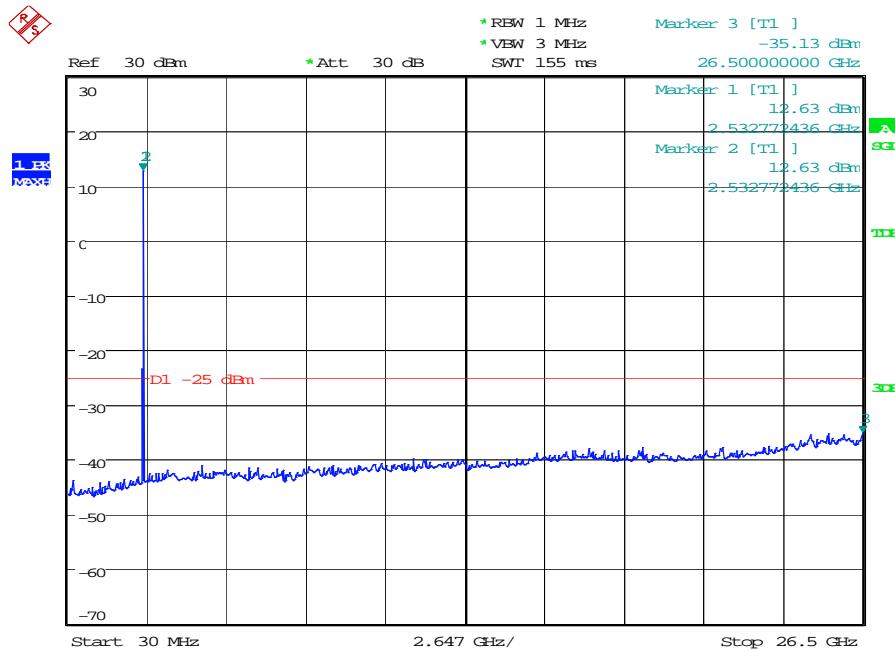
Date: 16.FEB.2017 08:59:34

BW10MHz-2505MHz,QPSK-50RB_LOW@Pass

☀ RBW 1 MHz	Marker 3 [T1]	
☀ VBW 3 MHz	−34.84 dBm	
Ref 30 dBm ☀ Att 30 dB SWT 155 ms	25.948541667 GHz	

Marker 1 [T1]
13.30 dBm
2.490352564 GHz
Marker 2 [T1]
13.30 dBm
2.490352564 GHz

D1 −25 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 16.FEB.2017 08:58:52

Report No.: FCC17010035A-5
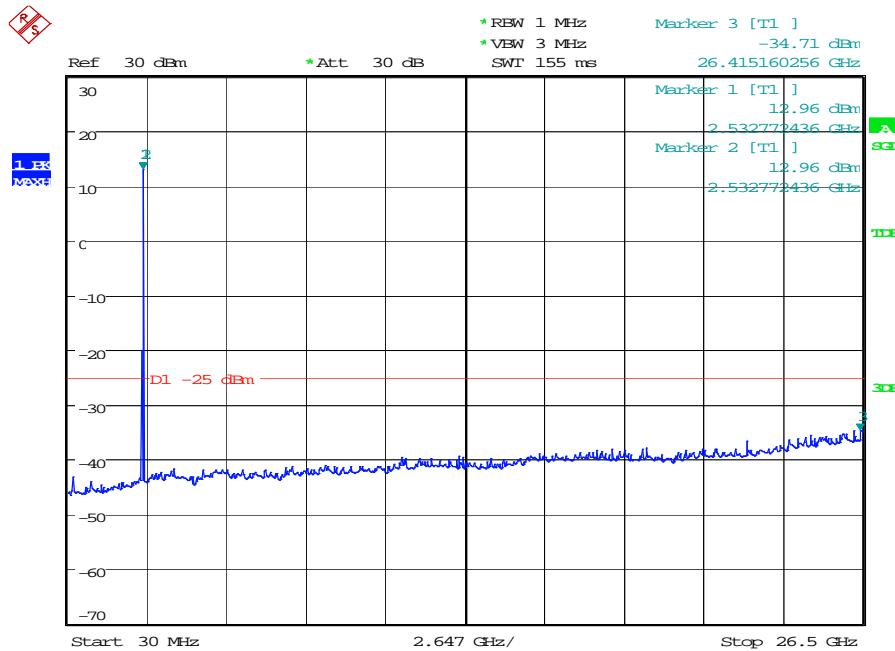
BW10MHz-2535MHz,Q16-50RB_LOW @Pass

	* RBW 1 MHz	Marker 3 [T1]
	* VBW 3 MHz	−35.13 dBm
Ref 30 dBm	* Att 30 dB SWT 155 ms	26.500000000 GHz

Marker 1 [T1]
12.63 dBm
2.532772436 GHz
Marker 2 [T1]
12.63 dBm
2.532772436 GHz

1 PK
MAX

A
SGL

TDF

D1 −25 dBm

3DB

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
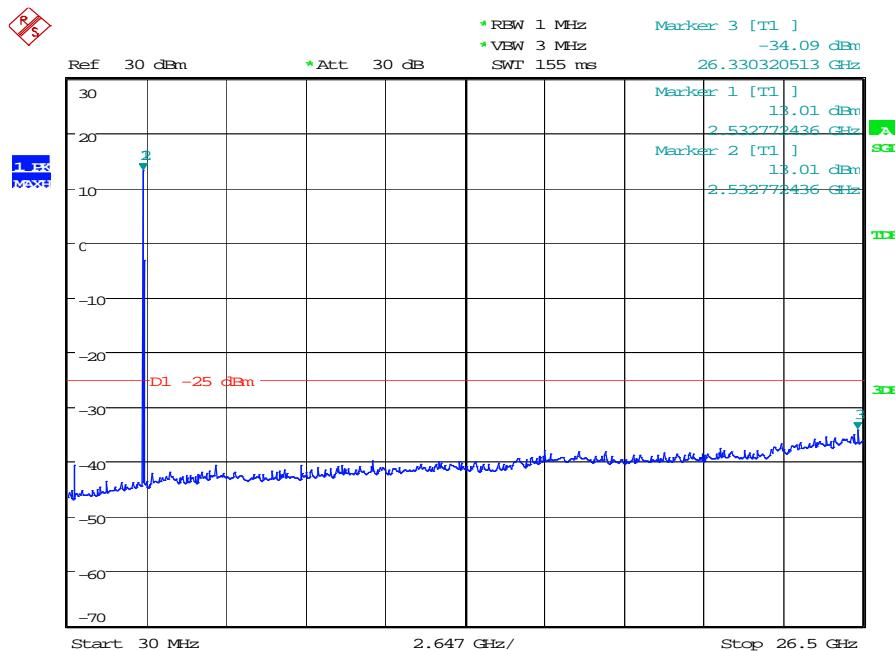
Date: 16.FEB.2017 09:02:01

BW10MHz-2535MHz,QPSK-50RB_LOW @Pass

	* RBW 1 MHz	Marker 3 [T1]
	* VBW 3 MHz	−34.71 dBm
Ref 30 dBm	* Att 30 dB SWT 155 ms	26.415160256 GHz

Marker 1 [T1]
12.96 dBm
2.532772436 GHz
Marker 2 [T1]
12.96 dBm
2.532772436 GHz

1 PK
MAX

A
SGL

TDF

D1 −25 dBm

3DB

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 16.FEB.2017 09:01:33

Report No.: FCC17010035A-5
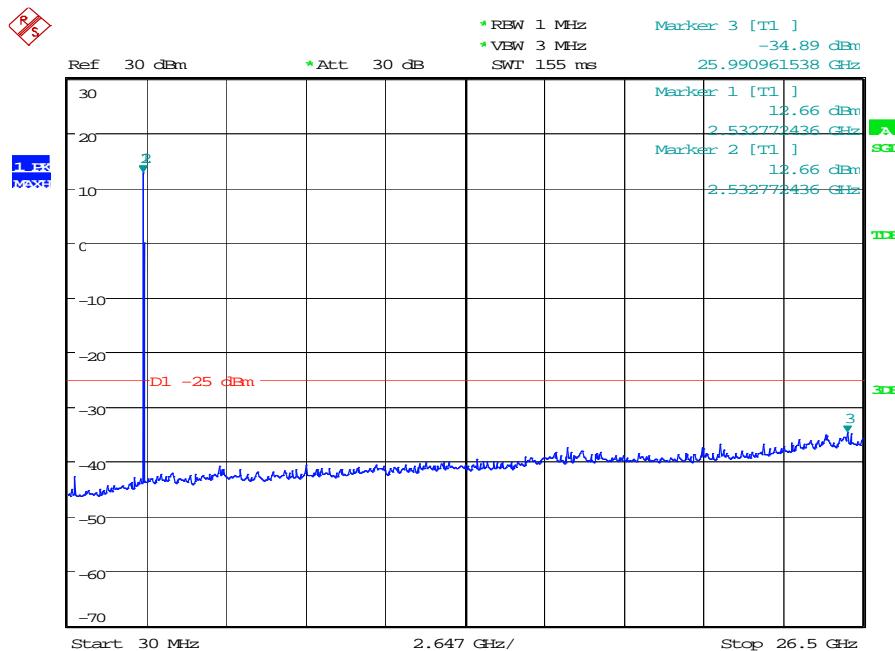
BW10MHz-2565MHz,Q16-50RB_LOW@Pass

```
                                        * RBW  1 MHz        Marker 3 [T1 ]
                                        * VBW  3 MHz                -34.09 dBm
   Ref    30 dBm          * Att  30 dB   SWT  155 ms        26.330320513 GHz
```

Marker 1 [T1] 13.01 dBm 2.532772436 GHz
Marker 2 [T1] 13.01 dBm 2.532772436 GHz

D1 −25 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
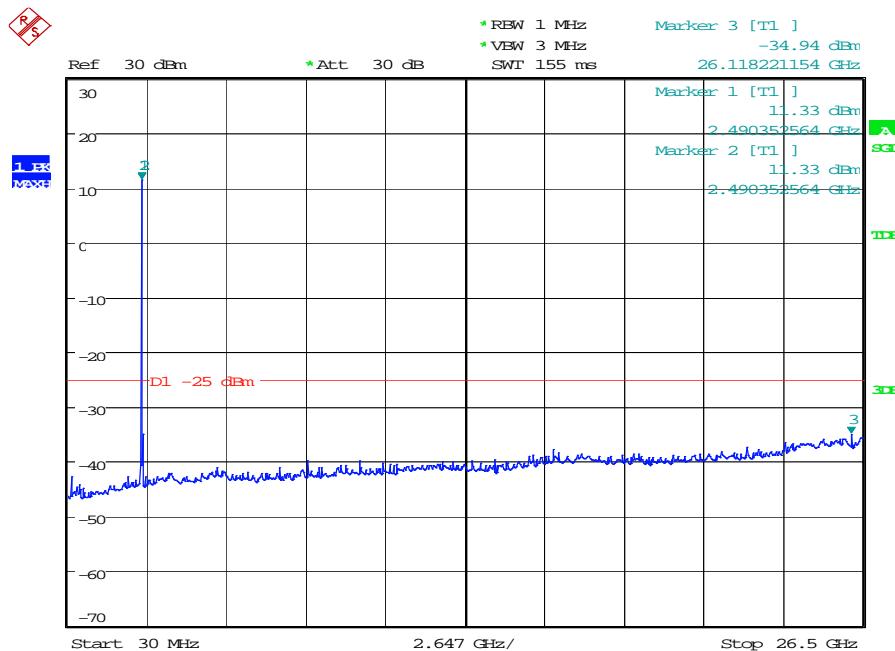
Date: 16.FEB.2017 09:00:59

BW10MHz-2565MHz,QPSK-50RB_LOW@Pass

```
                                        * RBW  1 MHz        Marker 3 [T1 ]
                                        * VBW  3 MHz                -34.89 dBm
   Ref    30 dBm          * Att  30 dB   SWT  155 ms        25.990961538 GHz
```

Marker 1 [T1] 12.66 dBm 2.532772436 GHz
Marker 2 [T1] 12.66 dBm 2.532772436 GHz

D1 −25 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 16.FEB.2017 09:00:17

Report No.: FCC17010035A-5
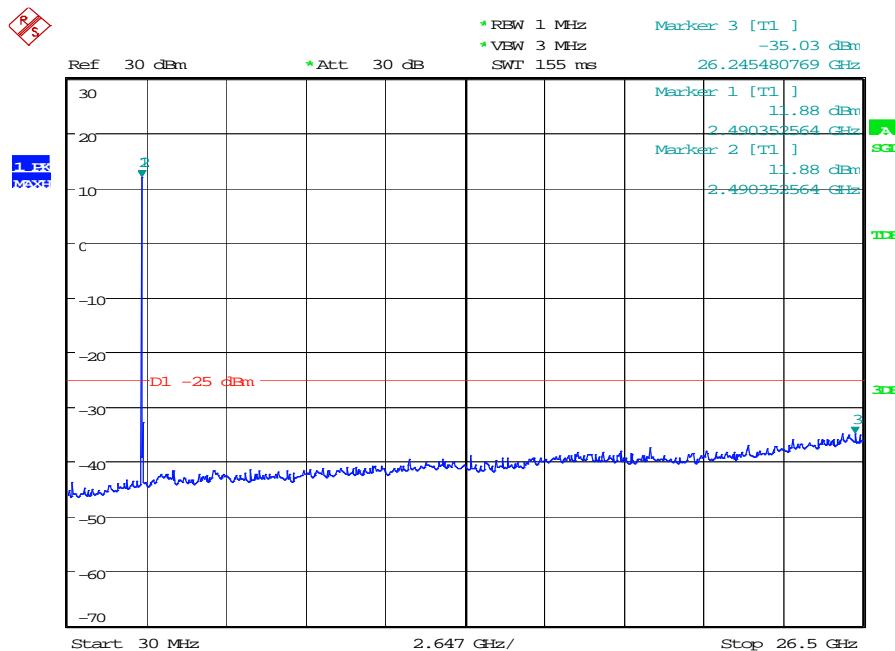
BW15MHz-2507.5MHz,Q16-75RB_LOW@Pass
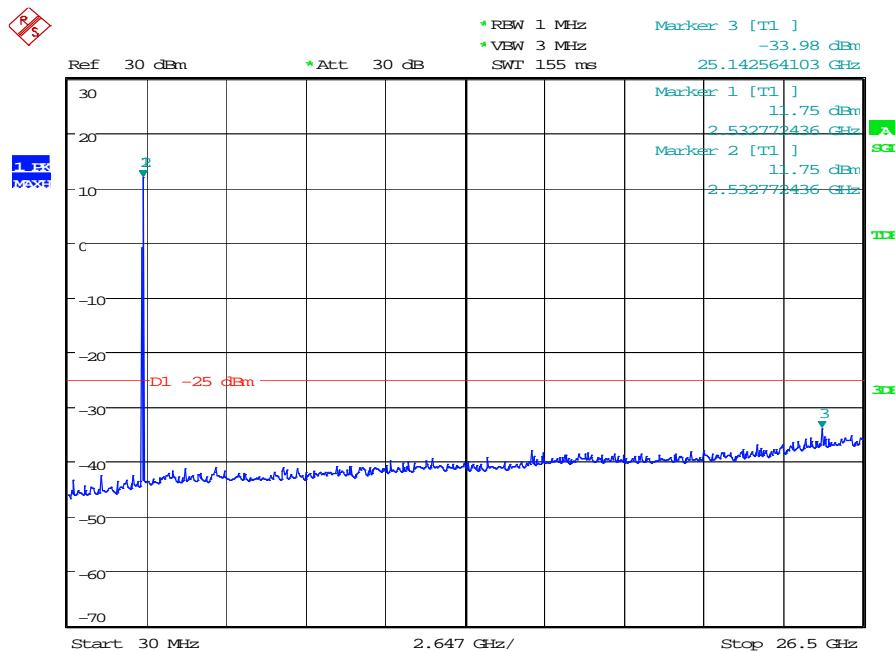
Date: 16.FEB.2017 09:03:26

BW15MHz-2507.5MHz,QPSK-75RB_LOW@Pass

Date: 16.FEB.2017 09:02:43

Report No.: FCC17010035A-5
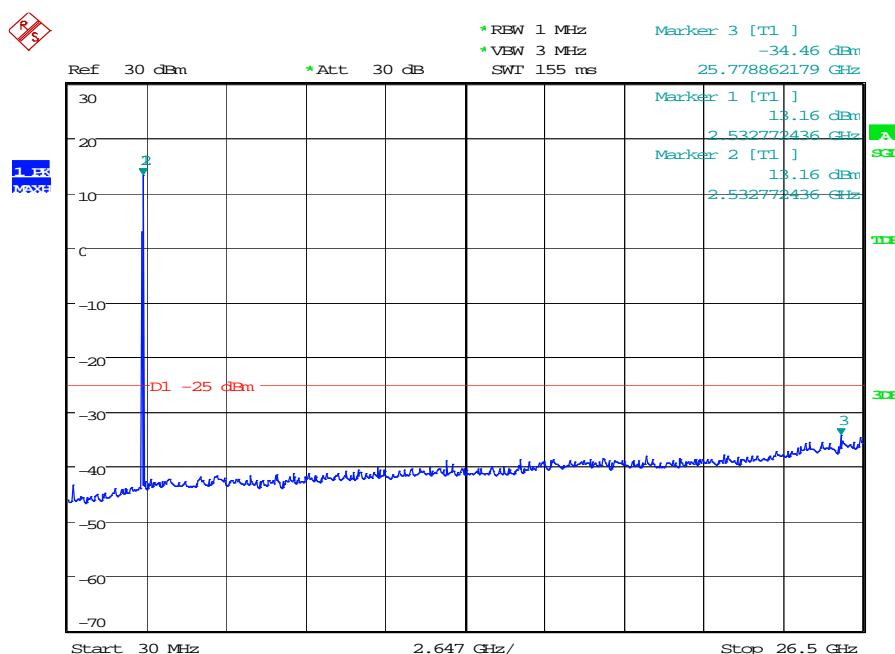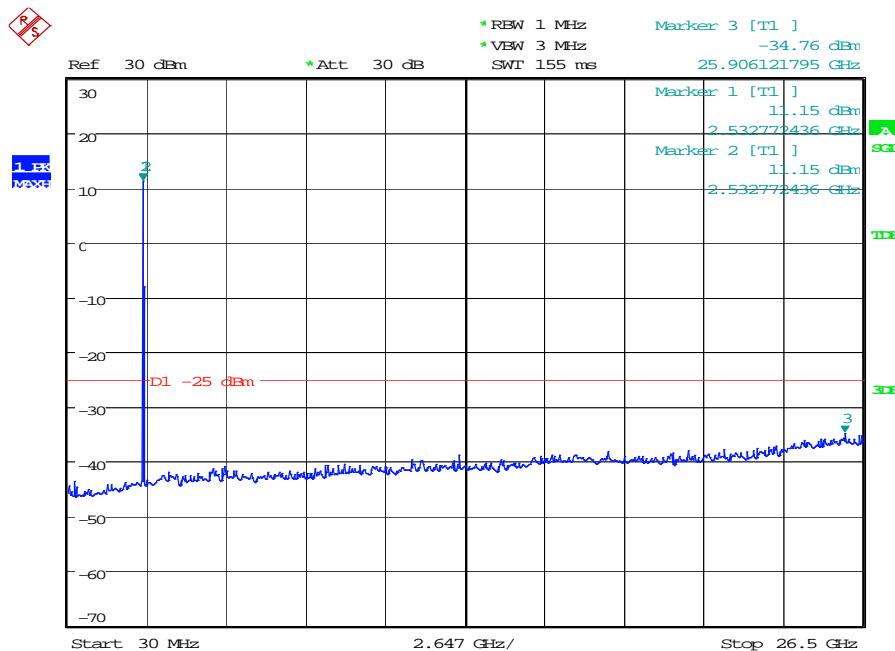
BW15MHz-2535MHz,Q16-75RB_LOW@Pass

	* RBW 1 MHz	Marker 3 [T1]
	* VBW 3 MHz	−33.98 dBm
Ref 30 dBm	* Att 30 dB SWT 155 ms	25.142564103 GHz

Marker 1 [T1]
11.75 dBm
2.532772436 GHz
Marker 2 [T1]
11.75 dBm
2.532772436 GHz

D1 −25 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 16.FEB.2017 09:06:08

BW15MHz-2535MHz,QPSK-75RB_LOW@Pass

	* RBW 1 MHz	Marker 3 [T1]
	* VBW 3 MHz	−34.46 dBm
Ref 30 dBm	* Att 30 dB SWT 155 ms	25.778862179 GHz

Marker 1 [T1]
13.16 dBm
2.532772436 GHz
Marker 2 [T1]
13.16 dBm
2.532772436 GHz

D1 −25 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 16.FEB.2017 09:05:32

Report No.: FCC17010035A-5
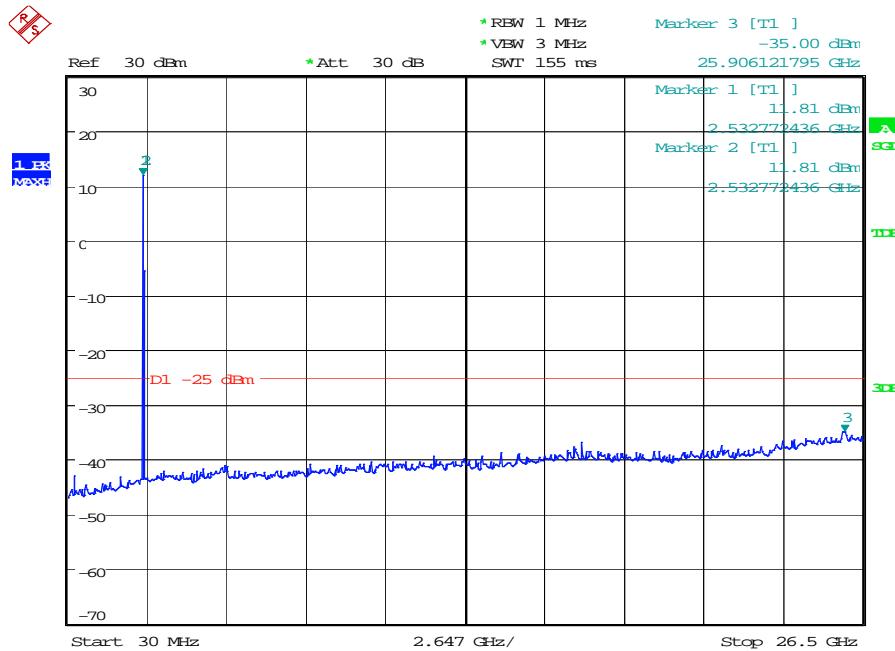
BW15MHz-2562.5MHz,Q16-75RB_LOW @Pass

	*RBW 1 MHz	Marker 3 [T1]
	*VBW 3 MHz	−34.76 dBm
Ref 30 dBm	*Att 30 dB SWT 155 ms	25.906121795 GHz

Marker 1 [T1]
11.15 dBm
2.532772436 GHz
Marker 2 [T1]
11.15 dBm
2.532772436 GHz

A SGL

TDF

3DB

D1 −25 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
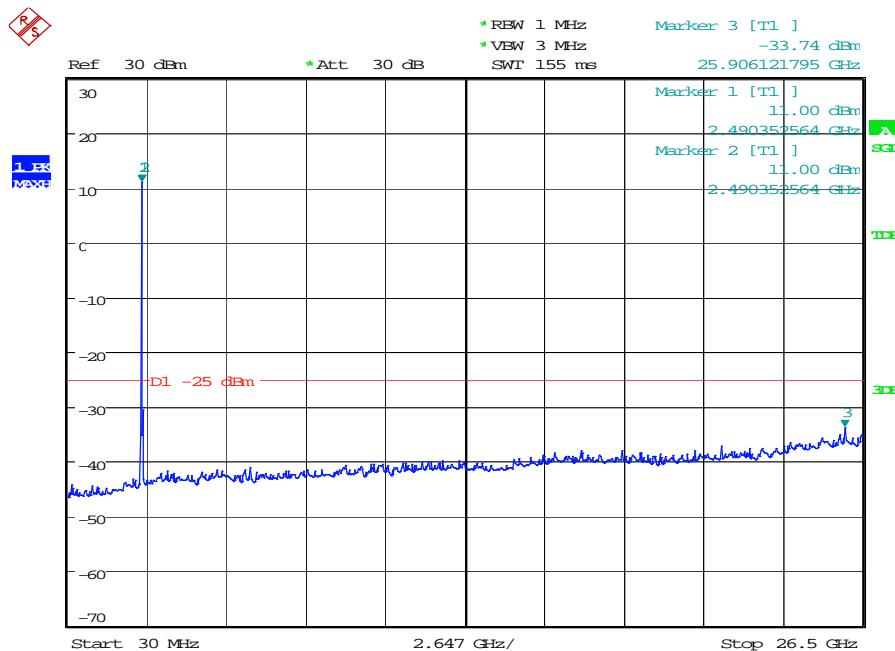
Date: 16.FEB.2017 09:04:52

BW15MHz-2562.5MHz,QPSK-75RB_LOW @Pass

	*RBW 1 MHz	Marker 3 [T1]
	*VBW 3 MHz	−35.00 dBm
Ref 30 dBm	*Att 30 dB SWT 155 ms	25.906121795 GHz

Marker 1 [T1]
11.81 dBm
2.532772436 GHz
Marker 2 [T1]
11.81 dBm
2.532772436 GHz

A SGL

TDF

3DB

D1 −25 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 16.FEB.2017 09:04:09

Report No.: FCC17010035A-5
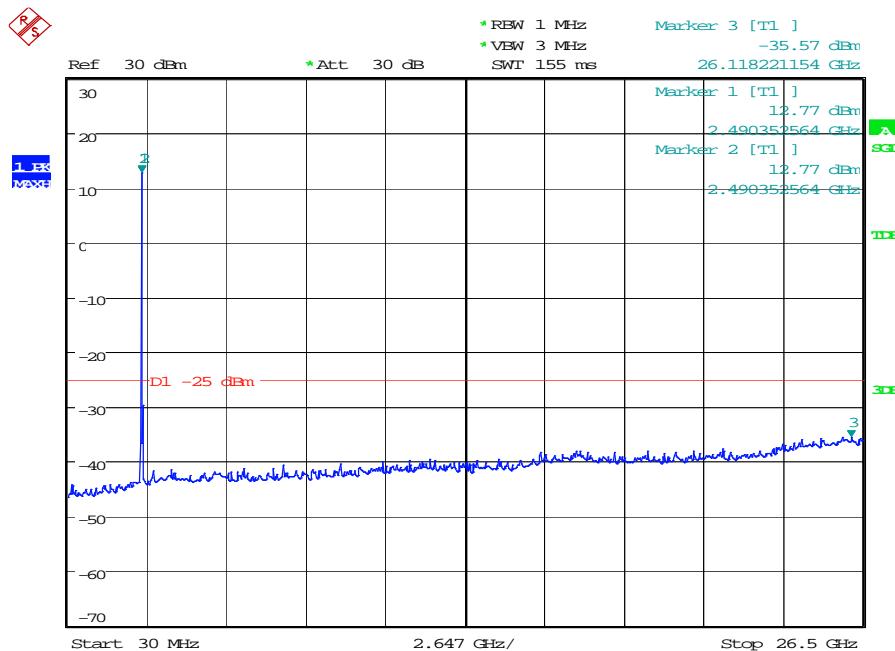
BW20MHz-2510MHz,Q16-100RB_LOW@Pass

*RBW 1 MHz	Marker 3 [T1]
*VBW 3 MHz	−33.74 dBm
Ref 30 dBm *Att 30 dB SWT 155 ms	25.906121795 GHz

Marker 1 [T1]
11.00 dBm
2.490352564 GHz
Marker 2 [T1]
11.00 dBm
2.490352564 GHz

D1 −25 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 16.FEB.2017 09:07:53

BW20MHz-2510MHz,QPSK-100RB_LOW@Pass
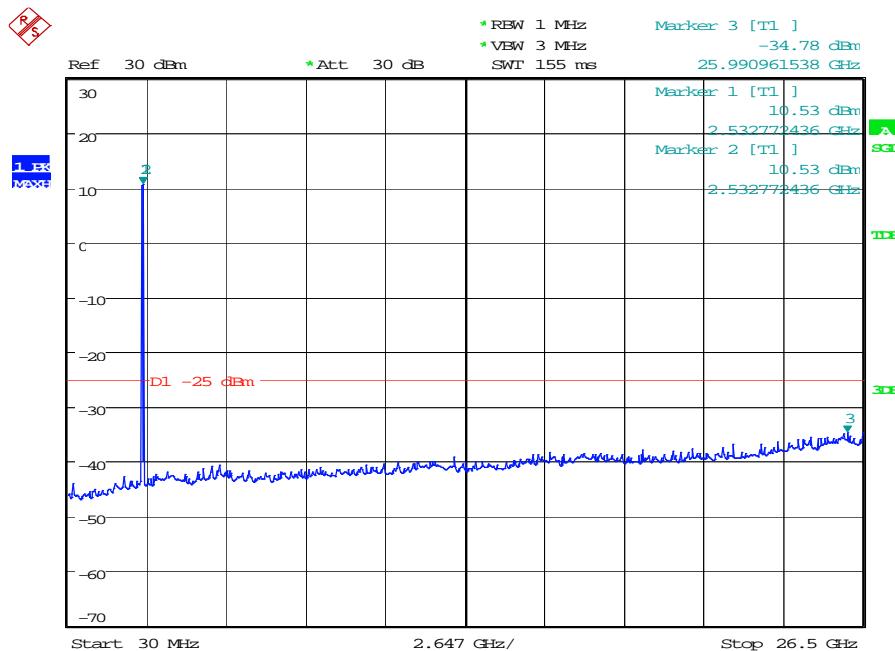
*RBW 1 MHz	Marker 3 [T1]
*VBW 3 MHz	−35.57 dBm
Ref 30 dBm *Att 30 dB SWT 155 ms	26.118221154 GHz

Marker 1 [T1]
12.77 dBm
2.490352564 GHz
Marker 2 [T1]
12.77 dBm
2.490352564 GHz

D1 −25 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 16.FEB.2017 09:06:59

Report No.: FCC17010035A-5

BW20MHz-2535MHz,Q16-100RB_LOW@Pass
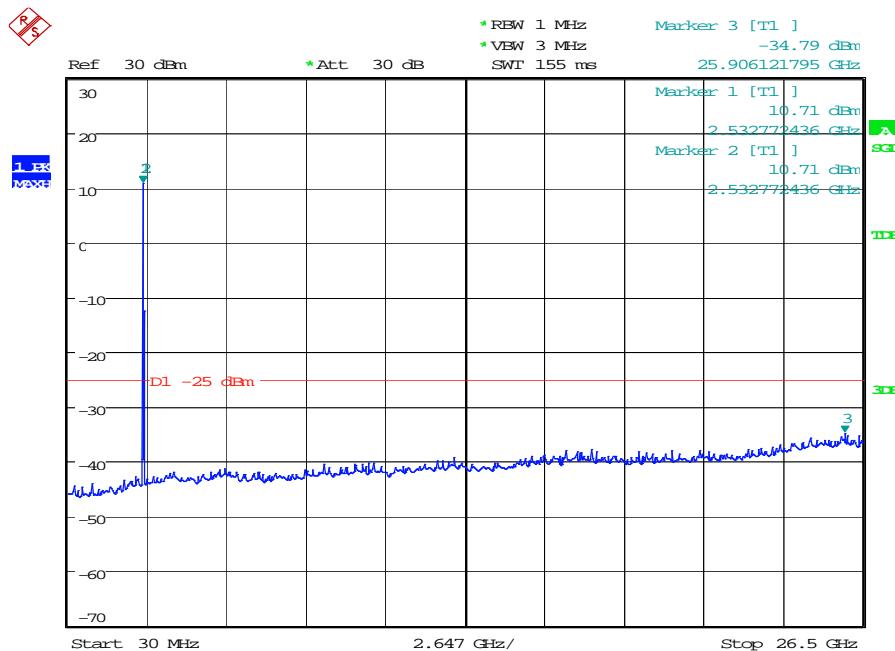
```
                                        * RBW 1 MHz        Marker 3 [T1 ]
                                        * VBW 3 MHz                 -35.17 dBm
     Ref    30 dBm        * Att  30 dB   SWT 155 ms         25.948541667 GHz
```

Date: 16.FEB.2017 09:10:22

BW20MHz-2535MHz,QPSK-100RB_LOW@Pass

```
                                        * RBW 1 MHz        Marker 3 [T1 ]
                                        * VBW 3 MHz                 -34.78 dBm
     Ref    30 dBm        * Att  30 dB   SWT 155 ms         25.990961538 GHz
```

Date: 16.FEB.2017 09:09:53

Report No.: FCC17010035A-5
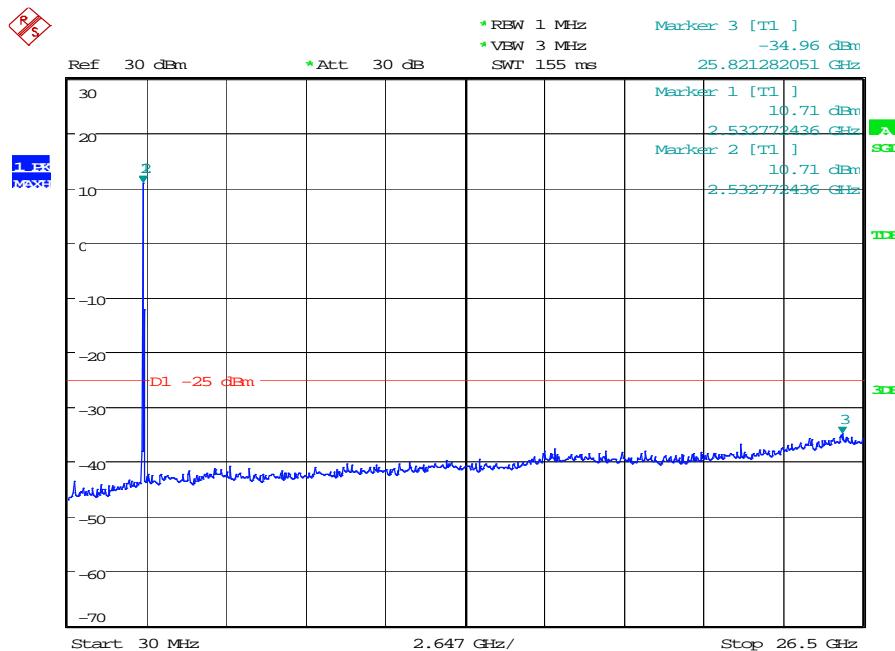
BW20MHz-2560MHz,Q16-100RB_LOW@Pass

```
                                    *RBW  1 MHz        Marker 3 [T1 ]
                                    *VBW  3 MHz                    -34.79 dBm
     Ref    30 dBm      *Att  30 dB  SWT 155 ms        25.906121795 GHz
```

Marker 1 [T1]
10.71 dBm
2.532772436 GHz

Marker 2 [T1]
10.71 dBm
2.532772436 GHz

D1 -25 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
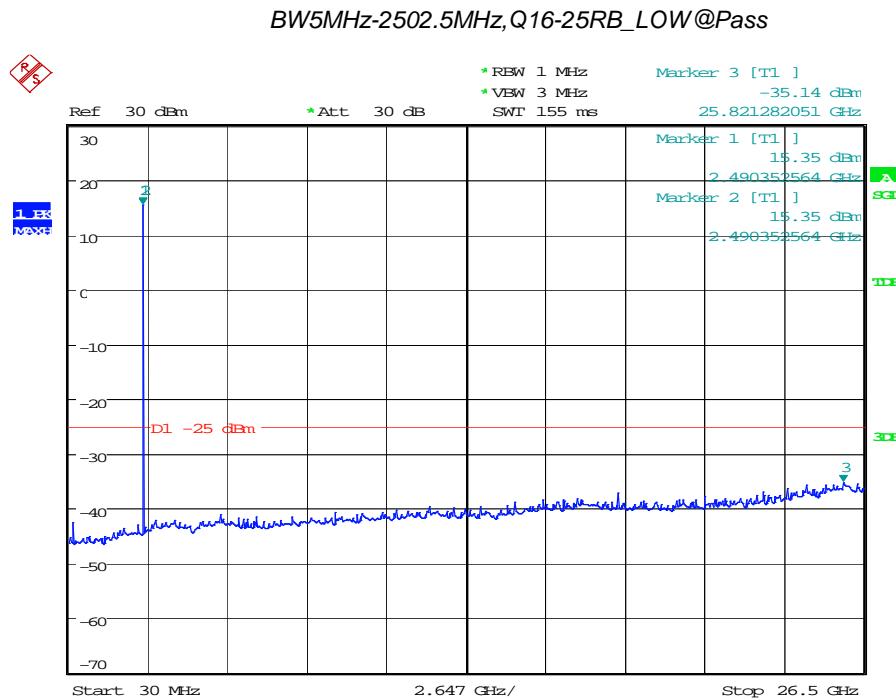
Date: 16.FEB.2017 09:09:20
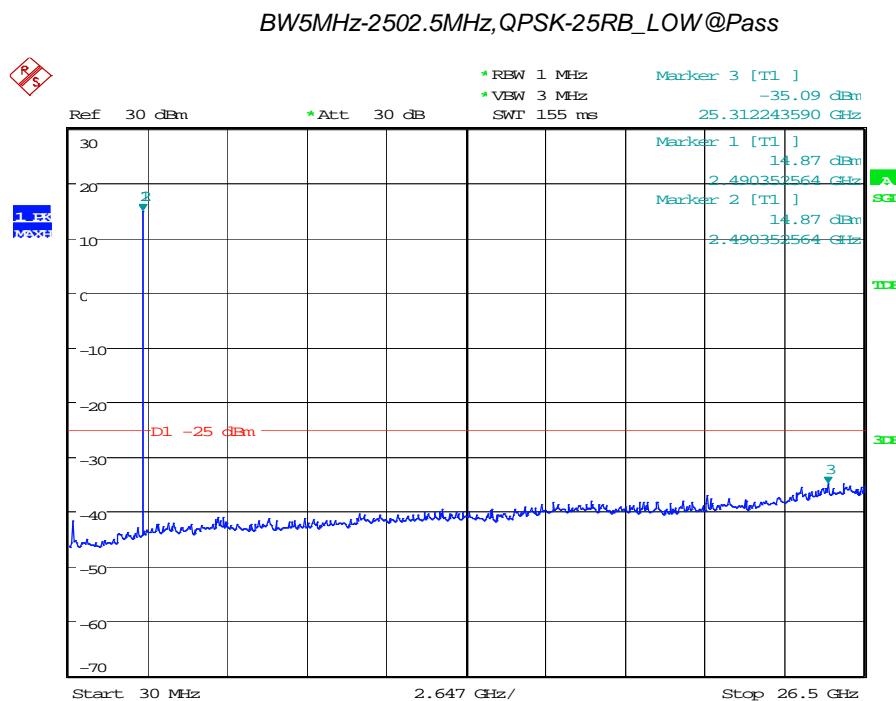
BW20MHz-2560MHz,QPSK-100RB_LOW@Pass

```
                                    *RBW  1 MHz        Marker 3 [T1 ]
                                    *VBW  3 MHz                    -34.96 dBm
     Ref    30 dBm      *Att  30 dB  SWT 155 ms        25.821282051 GHz
```

Marker 1 [T1]
10.71 dBm
2.532772436 GHz

Marker 2 [T1]
10.71 dBm
2.532772436 GHz

D1 -25 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 16.FEB.2017 09:08:37

Report No.: FCC17010035A-5

BW5MHz-2502.5MHz,Q16-25RB_LOW@Pass

```
                                    *RBW  1 MHz        Marker 3 [T1 ]
                                    *VBW  3 MHz               -35.14 dBm
Ref   30 dBm            *Att   30 dB   SWT 155 ms       25.821282051 GHz

  30                                              Marker 1 [T1 ]
                                                        15.35 dBm          A
  20                                                2.490352564 GHz        SGL
                                                 Marker 2 [T1 ]
  10                                                    15.35 dBm
                                                   2.490352564 GHz
   0                                                                       TDF

 -10

 -20
         D1 -25 dBm                                                        3DB
 -30                                                              3
 -40

 -50

 -60

 -70
Start  30 MHz              2.647 GHz/              Stop  26.5 GHz
```

Date: 16.FEB.2017 08:54:36

BW5MHz-2502.5MHz,QPSK-25RB_LOW@Pass

```
                                    *RBW  1 MHz        Marker 3 [T1 ]
                                    *VBW  3 MHz               -35.09 dBm
Ref   30 dBm            *Att   30 dB   SWT 155 ms       25.312243590 GHz

  30                                              Marker 1 [T1 ]
                                                        14.87 dBm          A
  20                                                2.490352564 GHz        SGL
                                                 Marker 2 [T1 ]
  10                                                    14.87 dBm
                                                   2.490352564 GHz
   0                                                                       TDF

 -10

 -20
         D1 -25 dBm                                                        3DB
 -30                                                              3
 -40

 -50

 -60

 -70
Start  30 MHz              2.647 GHz/              Stop  26.5 GHz
```

Date: 16.FEB.2017 08:53:34

Report No.: FCC17010035A-5

BW5MHz-2535MHz,QPSK-25RB_LOW@Pass

	*RBW 1 MHz	Marker 3 [T1]
	*VBW 3 MHz	-34.18 dBm
Ref 30 dBm	*Att 30 dB SWT 155 ms	25.948541667 GHz

Marker 1 [T1]
13.95 dBm
2.532772436 GHz
Marker 2 [T1]
13.95 dBm
2.532772436 GHz

D1 -25 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz
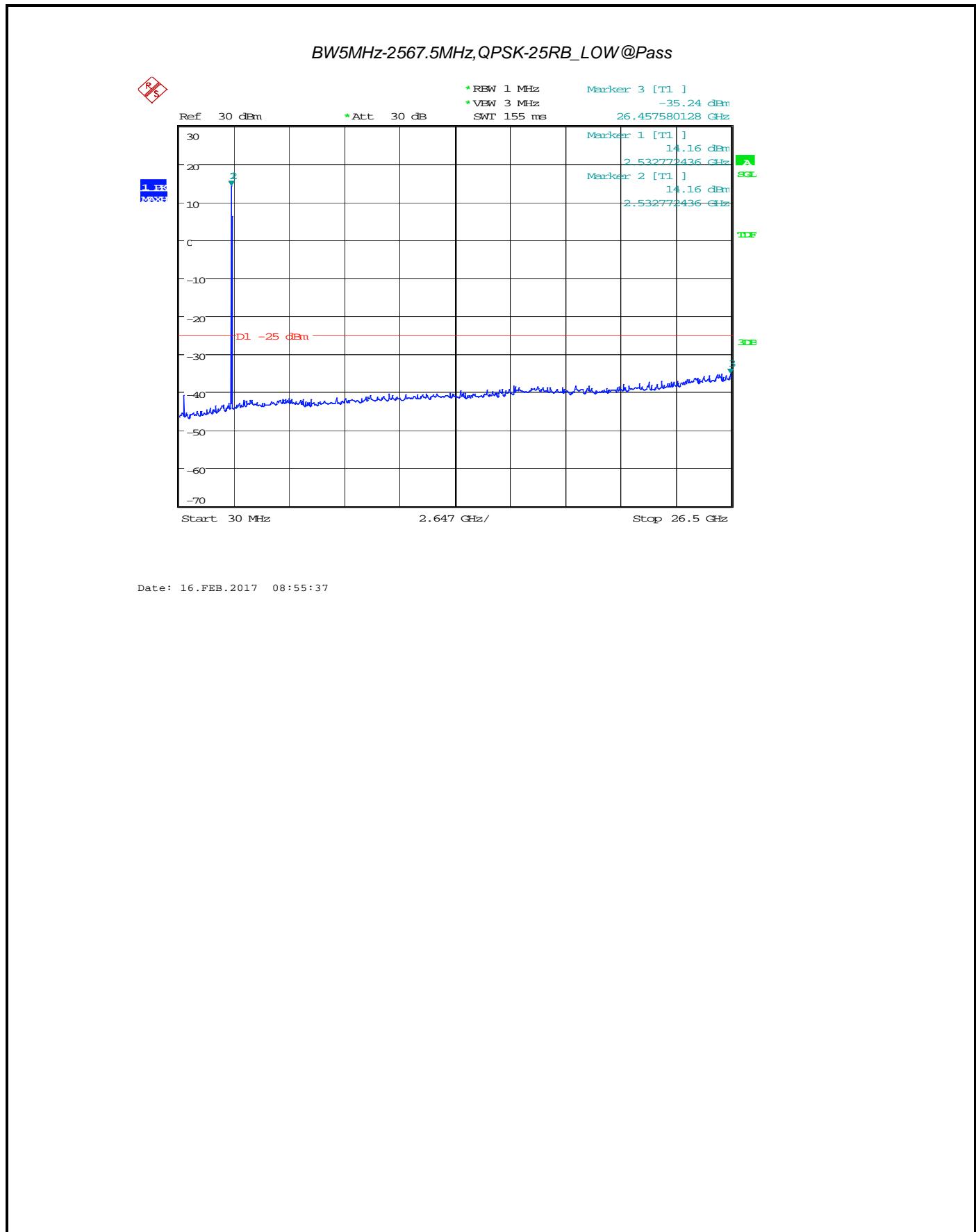
Date: 16.FEB.2017 08:58:10

BW5MHz-2567.5MHz,Q16-25RB_LOW@Pass

	*RBW 1 MHz	Marker 3 [T1]
	*VBW 3 MHz	-34.13 dBm
Ref 30 dBm	*Att 30 dB SWT 155 ms	25.269823718 GHz

Marker 1 [T1]
14.23 dBm
2.532772436 GHz
Marker 2 [T1]
14.23 dBm
2.532772436 GHz

D1 -25 dBm

Start 30 MHz   2.647 GHz/   Stop 26.5 GHz

Date: 16.FEB.2017 08:56:36

Report No.: FCC17010035A-5

BW5MHz-2567.5MHz,QPSK-25RB_LOW@Pass


```
                                    * RBW  1 MHz          Marker 3 [T1 ]
                                    * VBW  3 MHz                    -35.24 dBm
Ref    30 dBm          * Att  30 dB   SWT  155 ms          26.457580128 GHz

 30                                                       Marker 1 [T1 ]
                                                                  14.16 dBm
 20                                                           2.532772436 GHz
                                                          Marker 2 [T1 ]
 10                                                               14.16 dBm
                                                             2.532772436 GHz
  0

-10

-20
        D1 -25 dBm
-30

-40

-50

-60

-70
Start  30 MHz              2.647 GHz/              Stop  26.5 GHz
```

Date: 16.FEB.2017 08:55:37

5.1.1 Radiated method

Note:

1, Below 30MHz no Spurious found.

2, UE is poistioned at 3 axis at the pre-scan stage, and only the measurement of the worst case(bandwidth:20MHz /Full RB /QPSK) is reported in this part.

List of final test modes:

GSM850:

Mode	UL Channel	Frequency	Judgement
1	128	824.2	Pass
2	190	836.6	Pass
3	251	848.8	Pass

PCS1900

Mode	UL Channel	Frequency	Judgement
1	512	1850.2	Pass
2	661	1880	Pass
3	810	1909.8	Pass

UTRA BANDS

BAND 2:

Mode	UL Channel	Frequency	Judgement
1	9262	1852.4	Pass
2	9400	1880	Pass
3	9538	1907.6	Pass

BAND 5:

Mode	UL Channel	Frequency	Judgement
1	4132	826.4	Pass
2	4182	836.4	Pass
3	4233	846.6	Pass

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E-UTRA BANDS

BAND 2:

Mode	Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
1	20	18700	1860	QPSK	100	LOW	Pass
2	20	18900	1880	QPSK	100	LOW	Pass
3	20	19100	1900	QPSK	100	LOW	Pass

BAND 4:

Mode	Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
1	20	20050	1720	Q16	100	LOW	Pass
2	20	20300	1745	Q16	100	LOW	Pass
3	20	20175	1732.5	Q16	100	LOW	Pass

BAND 7:

Mode	Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Judgement
1	20	20850	2510	QPSK	100	LOW	Pass
2	20	21350	2560	QPSK	100	LOW	Pass
3	20	21100	2535	QPSK	100	LOW	Pass

Test record:

GSM850:

Mode 1					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
1648.4	-27.51	-4.99	-22.52	-13	Horizontal
1648.4	-28.24	-2.45	-25.79	-13	Vertical
2472.6	-30.14	3.61	-33.75	-13	Horizontal
2472.6	-27.24	2.82	-30.06	-13	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
1673.2	-25.85	-4.99	-20.86	-13	Horizontal
1673.2	-34.42	-2.45	-31.97	-13	Vertical
2509.8	-31.24	3.61	-34.85	-13	Horizontal
2509.8	-29.66	2.82	-32.48	-13	Vertical

Mode 3					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
1697.6	-31.46	-4.99	-26.47	-13	Horizontal
1697.6	-30.17	-2.45	-27.72	-13	Vertical
2546.4	-30.15	3.61	-33.76	-13	Horizontal
2546.4	-25.30	2.82	-28.12	-13	Vertical

PCS1900:

Mode 1					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3700.4	-32.23	-3.21	-29.02	-13	Horizontal
3700.4	-32.69	0.34	-33.03	-13	Vertical
5550.6	-32.77	3.95	-36.72	-13	Horizontal
5550.6	-27.65	-2.26	-25.39	-13	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3760	-33.04	-3.21	-29.83	-13	Horizontal
3760	-32.51	0.34	-32.85	-13	Vertical
5640	-32.51	3.95	-36.46	-13	Horizontal
5640	-27.98	-2.26	-25.72	-13	Vertical

Mode 3					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3819.6	-31.89	-3.21	-28.68	-13	Horizontal
3819.6	-28.96	0.34	-29.30	-13	Vertical
5729.4	-32.37	3.95	-36.32	-13	Horizontal
5729.4	-29.42	-2.26	-27.16	-13	Vertical

UTRA BANDS

BAND 2:

Mode 1					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3704.8	-63.06	10.46	-52.60	-13	Horizontal
3704.8	-62.62	10.03	-52.59	-13	Vertical
5557.2	-63.78	12.07	-51.70	-13	Horizontal
5557.2	-65.09	12.36	-52.73	-13	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3760	-63.16	10.45	-52.70	-13	Horizontal
3760	-63.44	10.50	-52.94	-13	Vertical
5640	-64.15	11.90	-52.24	-13	Horizontal
5640	-64.89	12.22	-52.67	-13	Vertical

Mode 3					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3815.2	-62.57	10.19	-52.38	-13	Horizontal
3815.2	-63.25	10.40	-52.85	-13	Vertical
5722.8	-63.86	12.33	-51.53	-13	Horizontal
5722.8	-64.81	11.92	-52.89	-13	Vertical

BAND 5:

Mode 1					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
1652.8	-62.87	10.18	-52.69	-13	Horizontal
1652.8	-62.80	10.83	-51.97	-13	Vertical
2479.2	-64.25	12.03	-52.22	-13	Horizontal
2479.2	-65.41	12.23	-53.18	-13	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
1673.2	-62.89	10.57	-52.32	-13	Horizontal
1673.2	-63.32	10.89	-52.43	-13	Vertical
2509.8	-64.19	11.56	-52.63	-13	Horizontal
2509.8	-64.65	12.29	-52.36	-13	Vertical

Mode 3					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
1693.2	-62.53	10.28	-52.25	-13	Horizontal
1693.2	-62.60	10.93	-51.67	-13	Vertical
2539.8	-64.27	12.19	-52.08	-13	Horizontal
2539.8	-64.64	11.82	-52.82	-13	Vertical

E-UTRA BANDS

BAND 2:

Mode 1					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3720	-62.97	10.80	-52.17	-13	Horizontal
3720	-63.43	10.66	-52.76	-13	Vertical
5580	-64.23	12.29	-51.94	-13	Horizontal
5580	-65.13	11.75	-53.38	-13	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3760	-63.01	10.17	-52.84	-13	Horizontal
3760	-63.14	10.32	-52.82	-13	Vertical
5640	-63.59	11.78	-51.81	-13	Horizontal
5640	-65.47	12.06	-53.41	-13	Vertical

Mode 3					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3800	-62.74	10.98	-51.77	-13	Horizontal
3800	-62.65	10.06	-52.59	-13	Vertical
5700	-63.51	12.02	-51.50	-13	Horizontal
5700	-64.70	12.20	-52.50	-13	Vertical

BAND 4:

Mode 1					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3440	-63.18	10.02	-53.16	-13	Horizontal
3440	-63.15	10.64	-52.51	-13	Vertical
5160	-64.34	11.55	-52.79	-13	Horizontal
5160	-64.67	12.41	-52.25	-13	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3490	-62.97	10.44	-52.53	-13	Horizontal
3490	-63.33	10.58	-52.75	-13	Vertical
5235	-64.45	12.34	-52.11	-13	Horizontal
5235	-65.49	11.92	-53.57	-13	Vertical

Mode 3					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
3465	-62.24	10.24	-52.00	-13	Horizontal
3465	-62.89	10.73	-52.16	-13	Vertical
5197.5	-64.00	11.92	-52.07	-13	Horizontal
5197.5	-65.21	11.71	-53.50	-13	Vertical

BAND 7:

Mode 1					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
1679	-62.54	10.42	-52.12	-25	Horizontal
1679	-63.38	10.28	-53.10	-25	Vertical
2518.5	-64.22	11.93	-52.29	-25	Horizontal
2518.5	-65.02	12.18	-52.84	-25	Vertical

Mode 2					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
1680	-63.03	10.10	-52.93	-25	Horizontal
1680	-63.29	10.00	-53.29	-25	Vertical
2520	-64.18	11.70	-52.48	-25	Horizontal
2520	-65.35	11.68	-53.67	-25	Vertical

Mode 3					
Frequency(MHz)	Power(dBm)	A_{Rpl} (dBm)	P_{Mea}(dBm)	Limit（dBm）	Polarity
1683	-62.68	10.93	-51.75	-25	Horizontal
1683	-63.44	10.63	-52.81	-25	Vertical
2524.5	-63.65	11.75	-51.90	-25	Horizontal
2524.5	-65.04	11.59	-53.45	-25	Vertical

6 FREQUENCY STABILITY

6.1 Measurement Result（Worst）

Frequency Error against Voltage for GSM 850 band (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error (ppm)
3.45	41	0.049
3.85	39	0.046
4.4	29	0.034

Frequency Error against Temperature for GSM 850 band (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	30	0.036
0	35	0.042
10	29	0.035
20	29	0.035
30	34	0.041
40	29	0.034
50	34	0.041

Frequency Error against Voltage for PCS 1900 band (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.45	35	0.019
3.85	37	0.020
4.4	31	0.017

Frequency Error against Temperature for PCS 1900 band (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	39	0.021
0	31	0.017
10	33	0.017
20	32	0.017
30	34	0.018
40	35	0.019
50	29	0.016

Frequency Error against Voltage for GPRS 850 band (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error (ppm)
3.45	41	0.049
3.85	39	0.046
4.4	29	0.034

Frequency Error against Temperature for GPRS 850 band (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	30	0.036
0	35	0.042
10	29	0.035
20	29	0.035
30	34	0.041
40	29	0.034
50	34	0.041

Frequency Error against Voltage for GPRS 1900 band (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.45	38	0.020
3.85	32	0.017
4.4	33	0.018

Frequency Error against Temperature for GPRS 1900 band (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	40	0.021
0	32	0.017
10	35	0.019
20	37	0.020
30	29	0.016
40	29	0.015
50	34	0.018

Frequency Error against Voltage for EGPRS 850 band (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error (ppm)
3.45	41	0.049
3.85	41	0.049
4.4	39	0.046

Frequency Error against Temperature for EGPRS 850 band (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	39	0.047
0	28	0.034
10	30	0.035
20	35	0.042
30	40	0.047
40	37	0.044
50	35	0.042

Frequency Error against Voltage for EGPRS 1900 band (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.45	38	0.020
3.85	32	0.017
4.4	33	0.018

Frequency Error against Temperature for EGPRS 1900 band (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	40	0.021
0	32	0.017
10	35	0.019
20	37	0.020
30	29	0.016
40	29	0.015
50	34	0.018

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Frequency Error against Voltage for WCDMA BAND 2 (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error (ppm)
3.45	35	0.019
3.85	37	0.020
4.4	37	0.020

Frequency Error against Temperature for WCDMA BAND 2 (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	33	0.017
0	38	0.020
10	31	0.016
20	29	0.015
30	35	0.019
40	39	0.021
50	38	0.020

Frequency Error against Voltage for WCDMA BAND 5 (Mid channel)

Voltage(V)	Frequency error(Hz)	Frequency error(ppm)
3.45	32	0.038
3.85	38	0.045
4.4	33	0.039

Frequency Error against Temperature for WCDMA BAND 5 (Mid channel)

Temperature(°C)	Frequency error(Hz)	Frequency error(ppm)
-10	39	0.046
0	30	0.036
10	33	0.040
20	31	0.037
30	39	0.047
40	35	0.042
50	39	0.047

E-UTRA

BAND 2:

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
1.4	18607	1850.7	QPSK	1	LOW	4.3	0.005095
1.4	18607	1850.7	QPSK	1	MID	-3.38	-0.004
1.4	18607	1850.7	QPSK	1	HIGH	2.18	0.002583
1.4	18607	1850.7	QPSK	3	LOW	-3.87	-0.00459
1.4	18607	1850.7	QPSK	3	MID	-1.93	-0.00229
1.4	18607	1850.7	QPSK	3	HIGH	4.94	0.005853
1.4	18607	1850.7	QPSK	6	LOW	-1.32	-0.00156
1.4	18607	1850.7	Q16	1	LOW	1.15	0.001363
1.4	18607	1850.7	Q16	1	MID	-3.71	-0.0044
1.4	18607	1850.7	Q16	1	HIGH	2.84	0.003365
1.4	18607	1850.7	Q16	3	LOW	-3.21	-0.0038
1.4	18607	1850.7	Q16	3	MID	2.42	0.002867
1.4	18607	1850.7	Q16	3	HIGH	4.82	0.005711
1.4	18607	1850.7	Q16	6	LOW	-4.11	-0.00487
1.4	18900	1880	QPSK	1	LOW	-4.55	-0.00539
1.4	18900	1880	QPSK	1	MID	-2.08	-0.00246
1.4	18900	1880	QPSK	1	HIGH	0.12	0.000142
1.4	18900	1880	QPSK	3	LOW	4	0.004739
1.4	18900	1880	QPSK	3	MID	-4.45	-0.00527
1.4	18900	1880	QPSK	3	HIGH	0.14	0.000166
1.4	18900	1880	QPSK	6	LOW	-3.11	-0.00368
1.4	18900	1880	Q16	1	LOW	2.65	0.00314
1.4	18900	1880	Q16	1	MID	4.7	0.005569
1.4	18900	1880	Q16	1	HIGH	-3.46	-0.0041
1.4	18900	1880	Q16	3	LOW	4.55	0.005391
1.4	18900	1880	Q16	3	MID	1.89	0.002239
1.4	18900	1880	Q16	3	HIGH	1.46	0.00173
1.4	18900	1880	Q16	6	LOW	-2.75	-0.00326
1.4	19193	1909.3	QPSK	1	LOW	-1.44	-0.00171
1.4	19193	1909.3	QPSK	1	MID	4.51	0.005344
1.4	19193	1909.3	QPSK	1	HIGH	4.81	0.005699
1.4	19193	1909.3	QPSK	3	LOW	-3.59	-0.00425
1.4	19193	1909.3	QPSK	3	MID	-2.15	-0.00255
1.4	19193	1909.3	QPSK	3	HIGH	-0.56	-0.00066

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
1.4	19193	1909.3	QPSK	6	LOW	1.89	0.002239
1.4	19193	1909.3	Q16	1	LOW	-0.05	-5.9E-05
1.4	19193	1909.3	Q16	1	MID	3.08	0.003649
1.4	19193	1909.3	Q16	1	HIGH	-3.03	-0.00359
1.4	19193	1909.3	Q16	3	LOW	-0.89	-0.00105
1.4	19193	1909.3	Q16	3	MID	-4.69	-0.00556
1.4	19193	1909.3	Q16	3	HIGH	-0.59	-0.0007
1.4	19193	1909.3	Q16	6	LOW	-4.25	-0.00504
3	18615	1851.5	QPSK	1	LOW	-2.75	-0.00326
3	18615	1851.5	QPSK	1	MID	4.21	0.004988
3	18615	1851.5	QPSK	1	HIGH	1.82	0.002156
3	18615	1851.5	QPSK	8	LOW	-4.48	-0.00531
3	18615	1851.5	QPSK	8	MID	3.55	0.004206
3	18615	1851.5	QPSK	8	HIGH	-0.93	-0.0011
3	18615	1851.5	QPSK	15	LOW	2.19	0.002595
3	18615	1851.5	Q16	1	LOW	-1.68	-0.00199
3	18615	1851.5	Q16	1	MID	1.83	0.002168
3	18615	1851.5	Q16	1	HIGH	2.58	0.003057
3	18615	1851.5	Q16	8	LOW	1.91	0.002263
3	18615	1851.5	Q16	8	MID	-2.02	-0.00239
3	18615	1851.5	Q16	8	HIGH	-0.18	-0.00021
3	18615	1851.5	Q16	15	LOW	2.3	0.002725
3	18900	1880	QPSK	1	LOW	1.19	0.00141
3	18900	1880	QPSK	1	MID	2.47	0.002927
3	18900	1880	QPSK	1	HIGH	-3.62	-0.00429
3	18900	1880	QPSK	8	LOW	-1.98	-0.00235
3	18900	1880	QPSK	8	MID	-1.73	-0.00205
3	18900	1880	QPSK	8	HIGH	-4.8	-0.00569
3	18900	1880	QPSK	15	LOW	-0.3	-0.00036
3	18900	1880	Q16	1	LOW	3.29	0.003898
3	18900	1880	Q16	1	MID	4.54	0.005379
3	18900	1880	Q16	1	HIGH	-0.2	-0.00024
3	18900	1880	Q16	8	LOW	-2.91	-0.00345
3	18900	1880	Q16	8	MID	0.77	0.000912
3	18900	1880	Q16	8	HIGH	-1.85	-0.00219
3	18900	1880	Q16	15	LOW	-0.67	-0.00079

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
3	19185	1908.5	QPSK	1	LOW	-0.57	-0.00068
3	19185	1908.5	QPSK	1	MID	4.79	0.005675
3	19185	1908.5	QPSK	1	HIGH	1.15	0.001363
3	19185	1908.5	QPSK	8	LOW	-3.2	-0.00379
3	19185	1908.5	QPSK	8	MID	4.45	0.005273
3	19185	1908.5	QPSK	8	HIGH	-2.01	-0.00238
3	19185	1908.5	QPSK	15	LOW	3.48	0.004123
3	19185	1908.5	Q16	1	LOW	-2.42	-0.00287
3	19185	1908.5	Q16	1	MID	-0.3	-0.00036
3	19185	1908.5	Q16	1	HIGH	3.9	0.004621
3	19185	1908.5	Q16	8	LOW	-2.8	-0.00332
3	19185	1908.5	Q16	8	MID	-4.49	-0.00532
3	19185	1908.5	Q16	8	HIGH	-4.64	-0.0055
3	19185	1908.5	Q16	15	LOW	-3.6	-0.00427
5	18625	1852.5	QPSK	1	LOW	4.72	0.005592
5	18625	1852.5	QPSK	1	MID	4.14	0.004905
5	18625	1852.5	QPSK	1	HIGH	-4.45	-0.00527
5	18625	1852.5	QPSK	12	LOW	2.83	0.003353
5	18625	1852.5	QPSK	12	MID	4.71	0.005581
5	18625	1852.5	QPSK	12	HIGH	-4.77	-0.00565
5	18625	1852.5	QPSK	25	LOW	3.52	0.004171
5	18625	1852.5	Q16	1	LOW	1.02	0.001209
5	18625	1852.5	Q16	1	MID	4.91	0.005818
5	18625	1852.5	Q16	1	HIGH	4.67	0.005533
5	18625	1852.5	Q16	12	LOW	0.56	0.000664
5	18625	1852.5	Q16	12	MID	2.97	0.003519
5	18625	1852.5	Q16	12	HIGH	4.95	0.005865
5	18625	1852.5	Q16	25	LOW	-2.06	-0.00244
5	18900	1880	QPSK	1	LOW	-1.3	-0.00154
5	18900	1880	QPSK	1	MID	-4.3	-0.00509
5	18900	1880	QPSK	1	HIGH	2.6	0.003081
5	18900	1880	QPSK	12	LOW	-2.35	-0.00278
5	18900	1880	QPSK	12	MID	-0.98	-0.00116
5	18900	1880	QPSK	12	HIGH	-4.54	-0.00538
5	18900	1880	QPSK	25	LOW	-1.91	-0.00226
5	18900	1880	Q16	1	LOW	-1.94	-0.0023

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
5	18900	1880	Q16	1	MID	-1.5	-0.00178
5	18900	1880	Q16	1	HIGH	-0.76	-0.0009
5	18900	1880	Q16	12	LOW	0.09	0.000107
5	18900	1880	Q16	12	MID	-2.17	-0.00257
5	18900	1880	Q16	12	HIGH	-4.42	-0.00524
5	18900	1880	Q16	25	LOW	3	0.003555
5	19175	1907.5	QPSK	1	LOW	1.77	0.002097
5	19175	1907.5	QPSK	1	MID	-3.97	-0.0047
5	19175	1907.5	QPSK	1	HIGH	-0.18	-0.00021
5	19175	1907.5	QPSK	12	LOW	3.39	0.004017
5	19175	1907.5	QPSK	12	MID	3.15	0.003732
5	19175	1907.5	QPSK	12	HIGH	-1.5	-0.00178
5	19175	1907.5	QPSK	25	LOW	0.24	0.000284
5	19175	1907.5	Q16	1	LOW	3.38	0.004005
5	19175	1907.5	Q16	1	MID	3.54	0.004194
5	19175	1907.5	Q16	1	HIGH	-1.76	-0.00209
5	19175	1907.5	Q16	12	LOW	-2.28	-0.0027
5	19175	1907.5	Q16	12	MID	-4.27	-0.00506
5	19175	1907.5	Q16	12	HIGH	1.3	0.00154
5	19175	1907.5	Q16	25	LOW	-1.29	-0.00153
10	18650	1855	QPSK	1	LOW	4.46	0.005284
10	18650	1855	QPSK	1	MID	3.44	0.004076
10	18650	1855	QPSK	1	HIGH	3.22	0.003815
10	18650	1855	QPSK	25	LOW	0.37	0.000438
10	18650	1855	QPSK	25	MID	3.89	0.004609
10	18650	1855	QPSK	25	HIGH	-1.64	-0.00194
10	18650	1855	QPSK	50	LOW	4	0.004739
10	18650	1855	Q16	1	LOW	1.04	0.001232
10	18650	1855	Q16	1	MID	2.37	0.002808
10	18650	1855	Q16	1	HIGH	-3.94	-0.00467
10	18650	1855	Q16	25	LOW	1.05	0.001244
10	18650	1855	Q16	25	MID	3.6	0.004265
10	18650	1855	Q16	25	HIGH	2.06	0.002441
10	18650	1855	Q16	50	LOW	2.32	0.002749
10	18900	1880	QPSK	1	LOW	-0.29	-0.00034
10	18900	1880	QPSK	1	MID	3.42	0.004052

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
10	18900	1880	QPSK	1	HIGH	-4.88	-0.00578
10	18900	1880	QPSK	25	LOW	-1.63	-0.00193
10	18900	1880	QPSK	25	MID	-2.27	-0.00269
10	18900	1880	QPSK	25	HIGH	2.71	0.003211
10	18900	1880	QPSK	50	LOW	-1.85	-0.00219
10	18900	1880	Q16	1	LOW	-1.44	-0.00171
10	18900	1880	Q16	1	MID	4.79	0.005675
10	18900	1880	Q16	1	HIGH	2.48	0.002938
10	18900	1880	Q16	25	LOW	2.32	0.002749
10	18900	1880	Q16	25	MID	3.91	0.004633
10	18900	1880	Q16	25	HIGH	0.93	0.001102
10	18900	1880	Q16	50	LOW	-3.58	-0.00424
10	19150	1905	QPSK	1	LOW	-4.85	-0.00575
10	19150	1905	QPSK	1	MID	1.54	0.001825
10	19150	1905	QPSK	1	HIGH	-1.07	-0.00127
10	19150	1905	QPSK	25	LOW	-1.95	-0.00231
10	19150	1905	QPSK	25	MID	3.35	0.003969
10	19150	1905	QPSK	25	HIGH	-4.44	-0.00526
10	19150	1905	QPSK	50	LOW	0.45	0.000533
10	19150	1905	Q16	1	LOW	2.34	0.002773
10	19150	1905	Q16	1	MID	-4.57	-0.00541
10	19150	1905	Q16	1	HIGH	-2.86	-0.00339
10	19150	1905	Q16	25	LOW	3.49	0.004135
10	19150	1905	Q16	25	MID	2.95	0.003495
10	19150	1905	Q16	25	HIGH	1.27	0.001505
10	19150	1905	Q16	50	LOW	-0.53	-0.00063
15	18675	1857.5	QPSK	1	LOW	0.46	0.000545
15	18675	1857.5	QPSK	1	MID	4.23	0.005012
15	18675	1857.5	QPSK	1	HIGH	-1.51	-0.00179
15	18675	1857.5	QPSK	36	LOW	1.38	0.001635
15	18675	1857.5	QPSK	36	MID	4.34	0.005142
15	18675	1857.5	QPSK	36	HIGH	3.65	0.004325
15	18675	1857.5	QPSK	75	LOW	3.22	0.003815
15	18675	1857.5	Q16	1	LOW	-4.65	-0.00551
15	18675	1857.5	Q16	1	MID	-4.64	-0.0055
15	18675	1857.5	Q16	1	HIGH	1.93	0.002287

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency Error	Frequency Error
				Size	Offset	(Hz)	(ppm)
15	18675	1857.5	Q16	36	LOW	4.86	0.005758
15	18675	1857.5	Q16	36	MID	-0.23	-0.00027
15	18675	1857.5	Q16	36	HIGH	1.45	0.001718
15	18675	1857.5	Q16	75	LOW	-4.06	-0.00481
15	18900	1880	QPSK	1	LOW	1	0.001185
15	18900	1880	QPSK	1	MID	4.47	0.005296
15	18900	1880	QPSK	1	HIGH	0.45	0.000533
15	18900	1880	QPSK	36	LOW	0.66	0.000782
15	18900	1880	QPSK	36	MID	1.46	0.00173
15	18900	1880	QPSK	36	HIGH	-0.98	-0.00116
15	18900	1880	QPSK	75	LOW	-0.94	-0.00111
15	18900	1880	Q16	1	LOW	2.31	0.002737
15	18900	1880	Q16	1	MID	-0.95	-0.00113
15	18900	1880	Q16	1	HIGH	-4.59	-0.00544
15	18900	1880	Q16	36	LOW	-3.73	-0.00442
15	18900	1880	Q16	36	MID	4.2	0.004976
15	18900	1880	Q16	36	HIGH	2.28	0.002701
15	18900	1880	Q16	75	LOW	0.15	0.000178
15	19125	1902.5	QPSK	1	LOW	-1.46	-0.00173
15	19125	1902.5	QPSK	1	MID	-0.58	-0.00069
15	19125	1902.5	QPSK	1	HIGH	0.11	0.00013
15	19125	1902.5	QPSK	36	LOW	-0.51	-0.0006
15	19125	1902.5	QPSK	36	MID	-3.76	-0.00445
15	19125	1902.5	QPSK	36	HIGH	-2.44	-0.00289
15	19125	1902.5	QPSK	75	LOW	-0.75	-0.00089
15	19125	1902.5	Q16	1	LOW	4.31	0.005107
15	19125	1902.5	Q16	1	MID	-1.06	-0.00126
15	19125	1902.5	Q16	1	HIGH	-2.01	-0.00238
15	19125	1902.5	Q16	36	LOW	1.88	0.002227
15	19125	1902.5	Q16	36	MID	3.63	0.004301
15	19125	1902.5	Q16	36	HIGH	1.98	0.002346
15	19125	1902.5	Q16	75	LOW	3.67	0.004348
20	18700	1860	QPSK	1	LOW	-4.07	-0.00482
20	18700	1860	QPSK	1	MID	2.39	0.002832
20	18700	1860	QPSK	1	HIGH	-1.71	-0.00203
20	18700	1860	QPSK	50	LOW	-2.12	-0.00251

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
20	18700	1860	QPSK	50	MID	-0.33	-0.00039
20	18700	1860	QPSK	50	HIGH	4.89	0.005794
20	18700	1860	QPSK	100	LOW	-1.45	-0.00172
20	18700	1860	Q16	1	LOW	-2.48	-0.00294
20	18700	1860	Q16	1	MID	-4.37	-0.00518
20	18700	1860	Q16	1	HIGH	-4.79	-0.00568
20	18700	1860	Q16	50	LOW	-3.24	-0.00384
20	18700	1860	Q16	50	MID	3.7	0.004384
20	18700	1860	Q16	50	HIGH	0.01	1.18E-05
20	18700	1860	Q16	100	LOW	4.54	0.005379
20	18900	1880	QPSK	1	LOW	1.11	0.001315
20	18900	1880	QPSK	1	MID	0.8	0.000948
20	18900	1880	QPSK	1	HIGH	3.32	0.003934
20	18900	1880	QPSK	50	LOW	4.65	0.005509
20	18900	1880	QPSK	50	MID	-1.58	-0.00187
20	18900	1880	QPSK	50	HIGH	-2.06	-0.00244
20	18900	1880	QPSK	100	LOW	-4.66	-0.00552
20	18900	1880	Q16	1	LOW	-1.17	-0.00139
20	18900	1880	Q16	1	MID	-2.25	-0.00267
20	18900	1880	Q16	1	HIGH	4.75	0.005628
20	18900	1880	Q16	50	LOW	-1.51	-0.00179
20	18900	1880	Q16	50	MID	-0.93	-0.0011
20	18900	1880	Q16	50	HIGH	4.84	0.005735
20	18900	1880	Q16	100	LOW	-3.72	-0.00441
20	19100	1900	QPSK	1	LOW	-1.88	-0.00223
20	19100	1900	QPSK	1	MID	4.43	0.005249
20	19100	1900	QPSK	1	HIGH	-4.47	-0.0053
20	19100	1900	QPSK	50	LOW	-2.06	-0.00244
20	19100	1900	QPSK	50	MID	-1.11	-0.00132
20	19100	1900	QPSK	50	HIGH	3.25	0.003851
20	19100	1900	QPSK	100	LOW	-3.02	-0.00358
20	19100	1900	Q16	1	LOW	2.85	0.003377
20	19100	1900	Q16	1	MID	-2.25	-0.00267
20	19100	1900	Q16	1	HIGH	-4.47	-0.0053
20	19100	1900	Q16	50	LOW	3.74	0.004431
20	19100	1900	Q16	50	MID	-3.67	-0.00435

Bandwidth	UL Channel	Frequency	Modulation	RB	RB	Frequency Error	Frequency Error
				Size	Offset	(Hz)	(ppm)
20	19100	1900	Q16	50	HIGH	3.58	0.004242
20	19100	1900	Q16	100	LOW	4.76	0.00564

BAND 4:

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
1.4	19957	1710.7	QPSK	1	LOW	4.28	0.005071
1.4	19957	1710.7	QPSK	1	MID	-3.17	-0.00376
1.4	19957	1710.7	QPSK	1	HIGH	3.96	0.004692
1.4	19957	1710.7	QPSK	3	LOW	1.74	0.002062
1.4	19957	1710.7	QPSK	3	MID	1.61	0.001908
1.4	19957	1710.7	QPSK	3	HIGH	0.89	0.001055
1.4	19957	1710.7	QPSK	6	LOW	-4.49	-0.00532
1.4	19957	1710.7	Q16	1	LOW	-1.29	-0.00153
1.4	19957	1710.7	Q16	1	MID	-0.41	-0.00049
1.4	19957	1710.7	Q16	1	HIGH	-2.56	-0.00303
1.4	19957	1710.7	Q16	3	LOW	0.87	0.001031
1.4	19957	1710.7	Q16	3	MID	-4.4	-0.00521
1.4	19957	1710.7	Q16	3	HIGH	3.61	0.004277
1.4	19957	1710.7	Q16	6	LOW	-2.85	-0.00338
1.4	20393	1754.3	QPSK	1	LOW	4.53	0.005367
1.4	20393	1754.3	QPSK	1	MID	-0.53	-0.00063
1.4	20393	1754.3	QPSK	1	HIGH	-3.62	-0.00429
1.4	20393	1754.3	QPSK	3	LOW	1.14	0.001351
1.4	20393	1754.3	QPSK	3	MID	4.17	0.004941
1.4	20393	1754.3	QPSK	3	HIGH	-4.92	-0.00583
1.4	20393	1754.3	QPSK	6	LOW	0.89	0.001055
1.4	20393	1754.3	Q16	1	LOW	1.51	0.001789
1.4	20393	1754.3	Q16	1	MID	-4.94	-0.00585
1.4	20393	1754.3	Q16	1	HIGH	-2.33	-0.00276
1.4	20393	1754.3	Q16	3	LOW	1.26	0.001493
1.4	20393	1754.3	Q16	3	MID	-2.16	-0.00256
1.4	20393	1754.3	Q16	3	HIGH	4.95	0.005865
1.4	20393	1754.3	Q16	6	LOW	4.21	0.004988
1.4	20175	1732.5	QPSK	1	LOW	1.37	0.001623
1.4	20175	1732.5	QPSK	1	MID	-0.57	-0.00068
1.4	20175	1732.5	QPSK	1	HIGH	0.38	0.00045
1.4	20175	1732.5	QPSK	3	LOW	0.54	0.00064
1.4	20175	1732.5	QPSK	3	MID	3.64	0.004313
1.4	20175	1732.5	QPSK	3	HIGH	3.08	0.003649

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
1.4	20175	1732.5	QPSK	6	LOW	4.75	0.005628
1.4	20175	1732.5	Q16	1	LOW	2.88	0.003412
1.4	20175	1732.5	Q16	1	MID	2.83	0.003353
1.4	20175	1732.5	Q16	1	HIGH	-3.43	-0.00406
1.4	20175	1732.5	Q16	3	LOW	-4.5	-0.00533
1.4	20175	1732.5	Q16	3	MID	-4.03	-0.00477
1.4	20175	1732.5	Q16	3	HIGH	-4.85	-0.00575
1.4	20175	1732.5	Q16	6	LOW	0.8	0.000948
3	19965	1711.5	QPSK	1	LOW	1.49	0.001765
3	19965	1711.5	QPSK	1	MID	0.68	0.000806
3	19965	1711.5	QPSK	1	HIGH	-3.52	-0.00417
3	19965	1711.5	QPSK	8	LOW	1.39	0.001647
3	19965	1711.5	QPSK	8	MID	1.95	0.00231
3	19965	1711.5	QPSK	8	HIGH	-3.27	-0.00387
3	19965	1711.5	QPSK	15	LOW	-0.43	-0.00051
3	19965	1711.5	Q16	1	LOW	-0.24	-0.00028
3	19965	1711.5	Q16	1	MID	4.75	0.005628
3	19965	1711.5	Q16	1	HIGH	-0.29	-0.00034
3	19965	1711.5	Q16	8	LOW	2.21	0.002618
3	19965	1711.5	Q16	8	MID	-1.83	-0.00217
3	19965	1711.5	Q16	8	HIGH	-0.13	-0.00015
3	19965	1711.5	Q16	15	LOW	1.04	0.001232
3	20385	1753.5	QPSK	1	LOW	-0.27	-0.00032
3	20385	1753.5	QPSK	1	MID	-1.29	-0.00153
3	20385	1753.5	QPSK	1	HIGH	-3.21	-0.0038
3	20385	1753.5	QPSK	8	LOW	-4.48	-0.00531
3	20385	1753.5	QPSK	8	MID	-0.78	-0.00092
3	20385	1753.5	QPSK	8	HIGH	-4.45	-0.00527
3	20385	1753.5	QPSK	15	LOW	1.33	0.001576
3	20385	1753.5	Q16	1	LOW	0.49	0.000581
3	20385	1753.5	Q16	1	MID	1.28	0.001517
3	20385	1753.5	Q16	1	HIGH	2.9	0.003436
3	20385	1753.5	Q16	8	LOW	-2.51	-0.00297
3	20385	1753.5	Q16	8	MID	-2.34	-0.00277
3	20385	1753.5	Q16	8	HIGH	3.49	0.004135
3	20385	1753.5	Q16	15	LOW	1.15	0.001363

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
3	20175	1732.5	QPSK	1	LOW	-2.7	-0.0032
3	20175	1732.5	QPSK	1	MID	-0.43	-0.00051
3	20175	1732.5	QPSK	1	HIGH	2.88	0.003412
3	20175	1732.5	QPSK	8	LOW	-2.5	-0.00296
3	20175	1732.5	QPSK	8	MID	-4.78	-0.00566
3	20175	1732.5	QPSK	8	HIGH	-2.98	-0.00353
3	20175	1732.5	QPSK	15	LOW	-0.24	-0.00028
3	20175	1732.5	Q16	1	LOW	-1.16	-0.00137
3	20175	1732.5	Q16	1	MID	-4.01	-0.00475
3	20175	1732.5	Q16	1	HIGH	-2.86	-0.00339
3	20175	1732.5	Q16	8	LOW	4.26	0.005047
3	20175	1732.5	Q16	8	MID	-4.34	-0.00514
3	20175	1732.5	Q16	8	HIGH	-2.38	-0.00282
3	20175	1732.5	Q16	15	LOW	-2.74	-0.00325
5	19975	1712.5	QPSK	1	LOW	3.17	0.003756
5	19975	1712.5	QPSK	1	MID	3.92	0.004645
5	19975	1712.5	QPSK	1	HIGH	0.84	0.000995
5	19975	1712.5	QPSK	12	LOW	-0.86	-0.00102
5	19975	1712.5	QPSK	12	MID	3.34	0.003957
5	19975	1712.5	QPSK	12	HIGH	-3.04	-0.0036
5	19975	1712.5	QPSK	25	LOW	-1.41	-0.00167
5	19975	1712.5	Q16	1	LOW	-4.2	-0.00498
5	19975	1712.5	Q16	1	MID	-3.09	-0.00366
5	19975	1712.5	Q16	1	HIGH	1.09	0.001291
5	19975	1712.5	Q16	12	LOW	1.88	0.002227
5	19975	1712.5	Q16	12	MID	-2.81	-0.00333
5	19975	1712.5	Q16	12	HIGH	2.78	0.003294
5	19975	1712.5	Q16	25	LOW	-0.36	-0.00043
5	20375	1752.5	QPSK	1	LOW	-2.87	-0.0034
5	20375	1752.5	QPSK	1	MID	-3.27	-0.00387
5	20375	1752.5	QPSK	1	HIGH	-0.77	-0.00091
5	20375	1752.5	QPSK	12	LOW	1.35	0.0016
5	20375	1752.5	QPSK	12	MID	0.71	0.000841
5	20375	1752.5	QPSK	12	HIGH	2.4	0.002844
5	20375	1752.5	QPSK	25	LOW	-0.54	-0.00064
5	20375	1752.5	Q16	1	LOW	0.25	0.000296

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
5	20375	1752.5	Q16	1	MID	1.97	0.002334
5	20375	1752.5	Q16	1	HIGH	-4.52	-0.00536
5	20375	1752.5	Q16	12	LOW	-3.6	-0.00427
5	20375	1752.5	Q16	12	MID	-0.44	-0.00052
5	20375	1752.5	Q16	12	HIGH	1.53	0.001813
5	20375	1752.5	Q16	25	LOW	-3.05	-0.00361
5	20175	1732.5	QPSK	1	LOW	-4.22	-0.005
5	20175	1732.5	QPSK	1	MID	4.65	0.005509
5	20175	1732.5	QPSK	1	HIGH	3.93	0.004656
5	20175	1732.5	QPSK	12	LOW	3.69	0.004372
5	20175	1732.5	QPSK	12	MID	2.87	0.0034
5	20175	1732.5	QPSK	12	HIGH	0.51	0.000604
5	20175	1732.5	QPSK	25	LOW	-4.15	-0.00492
5	20175	1732.5	Q16	1	LOW	-2.83	-0.00335
5	20175	1732.5	Q16	1	MID	3.82	0.004526
5	20175	1732.5	Q16	1	HIGH	0.78	0.000924
5	20175	1732.5	Q16	12	LOW	4.76	0.00564
5	20175	1732.5	Q16	12	MID	-2.19	-0.00259
5	20175	1732.5	Q16	12	HIGH	2.97	0.003519
5	20175	1732.5	Q16	25	LOW	0.66	0.000782
10	20000	1715	QPSK	1	LOW	2.99	0.003543
10	20000	1715	QPSK	1	MID	2.33	0.002761
10	20000	1715	QPSK	1	HIGH	-0.49	-0.00058
10	20000	1715	QPSK	25	LOW	2.85	0.003377
10	20000	1715	QPSK	25	MID	-2.78	-0.00329
10	20000	1715	QPSK	25	HIGH	2.35	0.002784
10	20000	1715	QPSK	50	LOW	-2.18	-0.00258
10	20000	1715	Q16	1	LOW	-4.16	-0.00493
10	20000	1715	Q16	1	MID	2.53	0.002998
10	20000	1715	Q16	1	HIGH	2.8	0.003318
10	20000	1715	Q16	25	LOW	4.03	0.004775
10	20000	1715	Q16	25	MID	2.68	0.003175
10	20000	1715	Q16	25	HIGH	4.96	0.005877
10	20000	1715	Q16	50	LOW	-4.24	-0.00502
10	20350	1750	QPSK	1	LOW	1.14	0.001351
10	20350	1750	QPSK	1	MID	4.57	0.005415

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
10	20350	1750	QPSK	1	HIGH	4.21	0.004988
10	20350	1750	QPSK	25	LOW	-1.59	-0.00188
10	20350	1750	QPSK	25	MID	-1.06	-0.00126
10	20350	1750	QPSK	25	HIGH	-3.14	-0.00372
10	20350	1750	QPSK	50	LOW	4.68	0.005545
10	20350	1750	Q16	1	LOW	0.36	0.000427
10	20350	1750	Q16	1	MID	2.76	0.00327
10	20350	1750	Q16	1	HIGH	-2.53	-0.003
10	20350	1750	Q16	25	LOW	4.88	0.005782
10	20350	1750	Q16	25	MID	2.25	0.002666
10	20350	1750	Q16	25	HIGH	2.29	0.002713
10	20350	1750	Q16	50	LOW	2.94	0.003483
10	20175	1732.5	QPSK	1	LOW	-2.76	-0.00327
10	20175	1732.5	QPSK	1	MID	2.24	0.002654
10	20175	1732.5	QPSK	1	HIGH	-3.73	-0.00442
10	20175	1732.5	QPSK	25	LOW	-2.78	-0.00329
10	20175	1732.5	QPSK	25	MID	1.54	0.001825
10	20175	1732.5	QPSK	25	HIGH	-0.31	-0.00037
10	20175	1732.5	QPSK	50	LOW	-2.35	-0.00278
10	20175	1732.5	Q16	1	LOW	2.46	0.002915
10	20175	1732.5	Q16	1	MID	4.09	0.004846
10	20175	1732.5	Q16	1	HIGH	-3.93	-0.00466
10	20175	1732.5	Q16	25	LOW	0.44	0.000521
10	20175	1732.5	Q16	25	MID	3.05	0.003614
10	20175	1732.5	Q16	25	HIGH	-3.51	-0.00416
10	20175	1732.5	Q16	50	LOW	-4.22	-0.005
15	20025	1717.5	QPSK	1	LOW	1.99	0.002358
15	20025	1717.5	QPSK	1	MID	-4.36	-0.00517
15	20025	1717.5	QPSK	1	HIGH	-2.39	-0.00283
15	20025	1717.5	QPSK	36	LOW	4.79	0.005675
15	20025	1717.5	QPSK	36	MID	2.44	0.002891
15	20025	1717.5	QPSK	36	HIGH	-3.99	-0.00473
15	20025	1717.5	QPSK	75	LOW	3	0.003555
15	20025	1717.5	Q16	1	LOW	0.41	0.000486
15	20025	1717.5	Q16	1	MID	3.34	0.003957
15	20025	1717.5	Q16	1	HIGH	1.19	0.00141

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
15	20025	1717.5	Q16	36	LOW	-0.6	-0.00071
15	20025	1717.5	Q16	36	MID	0.29	0.000344
15	20025	1717.5	Q16	36	HIGH	-3.98	-0.00472
15	20025	1717.5	Q16	75	LOW	3.63	0.004301
15	20325	1747.5	QPSK	1	LOW	-1.61	-0.00191
15	20325	1747.5	QPSK	1	MID	-4.08	-0.00483
15	20325	1747.5	QPSK	1	HIGH	-4.56	-0.0054
15	20325	1747.5	QPSK	36	LOW	-2.87	-0.0034
15	20325	1747.5	QPSK	36	MID	-0.81	-0.00096
15	20325	1747.5	QPSK	36	HIGH	-1.12	-0.00133
15	20325	1747.5	QPSK	75	LOW	2.14	0.002536
15	20325	1747.5	Q16	1	LOW	-4.05	-0.0048
15	20325	1747.5	Q16	1	MID	-0.58	-0.00069
15	20325	1747.5	Q16	1	HIGH	-0.22	-0.00026
15	20325	1747.5	Q16	36	LOW	-2.6	-0.00308
15	20325	1747.5	Q16	36	MID	-1.84	-0.00218
15	20325	1747.5	Q16	36	HIGH	-1.1	-0.0013
15	20325	1747.5	Q16	75	LOW	-4.08	-0.00483
15	20175	1732.5	QPSK	1	LOW	2	0.00237
15	20175	1732.5	QPSK	1	MID	0.07	8.29E-05
15	20175	1732.5	QPSK	1	HIGH	-2.23	-0.00264
15	20175	1732.5	QPSK	36	LOW	-4.95	-0.00586
15	20175	1732.5	QPSK	36	MID	3.77	0.004467
15	20175	1732.5	QPSK	36	HIGH	-3.94	-0.00467
15	20175	1732.5	QPSK	75	LOW	3.31	0.003922
15	20175	1732.5	Q16	1	LOW	-2.1	-0.00249
15	20175	1732.5	Q16	1	MID	3.58	0.004242
15	20175	1732.5	Q16	1	HIGH	0.77	0.000912
15	20175	1732.5	Q16	36	LOW	4.81	0.005699
15	20175	1732.5	Q16	36	MID	1.22	0.001445
15	20175	1732.5	Q16	36	HIGH	4.14	0.004905
15	20175	1732.5	Q16	75	LOW	4.45	0.005273
20	20050	1720	QPSK	1	LOW	3.26	0.003863
20	20050	1720	QPSK	1	MID	-4.22	-0.005
20	20050	1720	QPSK	1	HIGH	2.52	0.002986
20	20050	1720	QPSK	50	LOW	4.79	0.005675

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
20	20050	1720	QPSK	50	MID	1.04	0.001232
20	20050	1720	QPSK	50	HIGH	-1.89	-0.00224
20	20050	1720	QPSK	100	LOW	-4.81	-0.0057
20	20050	1720	Q16	1	LOW	-2.59	-0.00307
20	20050	1720	Q16	1	MID	-2.28	-0.0027
20	20050	1720	Q16	1	HIGH	-0.97	-0.00115
20	20050	1720	Q16	50	LOW	-1.85	-0.00219
20	20050	1720	Q16	50	MID	-4.11	-0.00487
20	20050	1720	Q16	50	HIGH	-4.32	-0.00512
20	20050	1720	Q16	100	LOW	-2.41	-0.00286
20	20300	1745	QPSK	1	LOW	2.1	0.002488
20	20300	1745	QPSK	1	MID	0.09	0.000107
20	20300	1745	QPSK	1	HIGH	0.59	0.000699
20	20300	1745	QPSK	50	LOW	1.69	0.002002
20	20300	1745	QPSK	50	MID	2.82	0.003341
20	20300	1745	QPSK	50	HIGH	4.22	0.005
20	20300	1745	QPSK	100	LOW	1	0.001185
20	20300	1745	Q16	1	LOW	2.08	0.002464
20	20300	1745	Q16	1	MID	-1.11	-0.00132
20	20300	1745	Q16	1	HIGH	-1.48	-0.00175
20	20300	1745	Q16	50	LOW	-3.9	-0.00462
20	20300	1745	Q16	50	MID	-1.45	-0.00172
20	20300	1745	Q16	50	HIGH	-3.65	-0.00432
20	20300	1745	Q16	100	LOW	1.52	0.001801
20	20175	1732.5	QPSK	1	LOW	-2.04	-0.00242
20	20175	1732.5	QPSK	1	MID	-1.48	-0.00175
20	20175	1732.5	QPSK	1	HIGH	4.01	0.004751
20	20175	1732.5	QPSK	50	LOW	-3.45	-0.00409
20	20175	1732.5	QPSK	50	MID	-3.32	-0.00393
20	20175	1732.5	QPSK	50	HIGH	-1.48	-0.00175
20	20175	1732.5	QPSK	100	LOW	0.4	0.000474
20	20175	1732.5	Q16	1	LOW	-4.04	-0.00479
20	20175	1732.5	Q16	1	MID	1.24	0.001469
20	20175	1732.5	Q16	1	HIGH	4.18	0.004953
20	20175	1732.5	Q16	50	LOW	2.05	0.002429
20	20175	1732.5	Q16	50	MID	3.11	0.003685

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency Error (Hz)	Frequency Error (ppm)
20	20175	1732.5	Q16	50	HIGH	1.09	0.001291
20	20175	1732.5	Q16	100	LOW	-3.28	-0.00389

BAND 7:

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency error (Hz)	Frequency Error (ppm)
5	20775	2502.5	QPSK	1	LOW	3.66	0.004336
5	20775	2502.5	QPSK	1	MID	3.13	0.003709
5	20775	2502.5	QPSK	1	HIGH	-0.85	-0.00101
5	20775	2502.5	QPSK	12	LOW	0.12	0.000142
5	20775	2502.5	QPSK	12	MID	2.51	0.002974
5	20775	2502.5	QPSK	12	HIGH	1.75	0.002073
5	20775	2502.5	QPSK	25	LOW	1.9	0.002251
5	20775	2502.5	Q16	1	LOW	0.03	3.55E-05
5	20775	2502.5	Q16	1	MID	0.56	0.000664
5	20775	2502.5	Q16	1	HIGH	2.53	0.002998
5	20775	2502.5	Q16	12	LOW	2.69	0.003187
5	20775	2502.5	Q16	12	MID	1.9	0.002251
5	20775	2502.5	Q16	12	HIGH	2.97	0.003519
5	20775	2502.5	Q16	25	LOW	-0.18	-0.00021
5	21425	2567.5	QPSK	1	LOW	4.19	0.004964
5	21425	2567.5	QPSK	1	MID	-5	-0.00592
5	21425	2567.5	QPSK	1	HIGH	-3.03	-0.00359
5	21425	2567.5	QPSK	12	LOW	-2.85	-0.00338
5	21425	2567.5	QPSK	12	MID	-2.3	-0.00273
5	21425	2567.5	QPSK	12	HIGH	-1.84	-0.00218
5	21425	2567.5	QPSK	25	LOW	2.08	0.002464
5	21425	2567.5	Q16	1	LOW	-4.36	-0.00517
5	21425	2567.5	Q16	1	MID	-3.31	-0.00392
5	21425	2567.5	Q16	1	HIGH	0.84	0.000995
5	21425	2567.5	Q16	12	LOW	-0.07	-8.3E-05
5	21425	2567.5	Q16	12	MID	-0.45	-0.00053
5	21425	2567.5	Q16	12	HIGH	-4.48	-0.00531
5	21425	2567.5	Q16	25	LOW	3.22	0.003815
5	21100	2535	QPSK	1	LOW	4.51	0.005344
5	21100	2535	QPSK	1	MID	-1.76	-0.00209
5	21100	2535	QPSK	1	HIGH	1.09	0.001291
5	21100	2535	QPSK	12	LOW	4.4	0.005213
5	21100	2535	QPSK	12	MID	-0.22	-0.00026
5	21100	2535	QPSK	12	HIGH	-4.76	-0.00564
5	21100	2535	QPSK	25	LOW	-0.02	-2.4E-05

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency error (Hz)	Frequency Error (ppm)
5	21100	2535	QPSK	1	LOW	-1.87	-0.00222
5	21100	2535	QPSK	1	MID	-3.5	-0.00415
5	21100	2535	QPSK	1	HIGH	-2.56	-0.00303
5	21100	2535	QPSK	12	LOW	0.91	0.001078
5	21100	2535	QPSK	12	MID	2.71	0.003211
5	21100	2535	QPSK	12	HIGH	0.06	7.11E-05
5	21100	2535	QPSK	25	LOW	-0.92	-0.00109
10	20800	2505	QPSK	1	LOW	-0.54	-0.00064
10	20800	2505	QPSK	1	MID	-0.98	-0.00116
10	20800	2505	QPSK	1	HIGH	2.57	0.003045
10	20800	2505	QPSK	25	LOW	-2.98	-0.00353
10	20800	2505	QPSK	25	MID	2.75	0.003258
10	20800	2505	QPSK	25	HIGH	3.91	0.004633
10	20800	2505	QPSK	50	LOW	4.69	0.005557
10	20800	2505	Q16	1	LOW	-1.12	-0.00133
10	20800	2505	Q16	1	MID	2.64	0.003128
10	20800	2505	Q16	1	HIGH	4.82	0.005711
10	20800	2505	Q16	25	LOW	0.41	0.000486
10	20800	2505	Q16	25	MID	-0.69	-0.00082
10	20800	2505	Q16	25	HIGH	-4.75	-0.00563
10	20800	2505	Q16	50	LOW	1.46	0.00173
10	21400	2565	QPSK	1	LOW	4.35	0.005154
10	21400	2565	QPSK	1	MID	4.02	0.004763
10	21400	2565	QPSK	1	HIGH	-3.25	-0.00385
10	21400	2565	QPSK	25	LOW	-0.12	-0.00014
10	21400	2565	QPSK	25	MID	2.38	0.00282
10	21400	2565	QPSK	25	HIGH	3.93	0.004656
10	21400	2565	QPSK	50	LOW	2.33	0.002761
10	21400	2565	QPSK	1	LOW	1.91	0.002263
10	21400	2565	QPSK	1	MID	-1.93	-0.00229
10	21400	2565	QPSK	1	HIGH	1.71	0.002026
10	21400	2565	Q16	25	LOW	4.05	0.004799
10	21400	2565	Q16	25	MID	3.31	0.003922
10	21400	2565	Q16	25	HIGH	-1.07	-0.00127
10	21400	2565	Q16	50	LOW	-1.9	-0.00225
10	21100	2535	QPSK	1	LOW	2.18	0.002583

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency error (Hz)	Frequency Error (ppm)
10	21100	2535	QPSK	1	MID	2.17	0.002571
10	21100	2535	QPSK	1	HIGH	1.31	0.001552
10	21100	2535	QPSK	25	LOW	3.82	0.004526
10	21100	2535	QPSK	25	MID	0.26	0.000308
10	21100	2535	QPSK	25	HIGH	1.59	0.001884
10	21100	2535	QPSK	50	LOW	2.46	0.002915
10	21100	2535	QPSK	1	LOW	-0.7	-0.00083
10	21100	2535	QPSK	1	MID	-3.12	-0.0037
10	21100	2535	QPSK	1	HIGH	-3.14	-0.00372
10	21100	2535	Q16	25	LOW	1.69	0.002002
10	21100	2535	Q16	25	MID	1.6	0.001896
10	21100	2535	Q16	25	HIGH	4.53	0.005367
10	21100	2535	Q16	50	LOW	0.53	0.000628
15	20825	2507.5	QPSK	1	LOW	-2.05	-0.00243
15	20825	2507.5	QPSK	1	MID	-0.98	-0.00116
15	20825	2507.5	QPSK	1	HIGH	0.72	0.000853
15	20825	2507.5	QPSK	36	LOW	-0.9	-0.00107
15	20825	2507.5	QPSK	36	MID	4.21	0.004988
15	20825	2507.5	QPSK	36	HIGH	-3.4	-0.00403
15	20825	2507.5	QPSK	75	LOW	2.31	0.002737
15	20825	2507.5	Q16	1	LOW	-1.07	-0.00127
15	20825	2507.5	Q16	1	MID	-2.23	-0.00264
15	20825	2507.5	Q16	1	HIGH	-3.88	-0.0046
15	20825	2507.5	Q16	36	LOW	3.62	0.004289
15	20825	2507.5	Q16	36	MID	-0.13	-0.00015
15	20825	2507.5	Q16	36	HIGH	-4.9	-0.00581
15	20825	2507.5	Q16	75	LOW	-2.7	-0.0032
15	21375	2562.5	QPSK	1	LOW	4.89	0.005794
15	21375	2562.5	QPSK	1	MID	0.58	0.000687
15	21375	2562.5	QPSK	1	HIGH	3.12	0.003697
15	21375	2562.5	QPSK	36	LOW	3.05	0.003614
15	21375	2562.5	QPSK	36	MID	4.16	0.004929
15	21375	2562.5	QPSK	36	HIGH	-4.54	-0.00538
15	21375	2562.5	QPSK	75	LOW	-0.23	-0.00027
15	21375	2562.5	Q16	1	LOW	-3.56	-0.00422
15	21375	2562.5	Q16	1	MID	-1.12	-0.00133

Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency error (Hz)	Frequency Error (ppm)
15	21375	2562.5	Q16	1	HIGH	3.83	0.004538
15	21375	2562.5	Q16	36	LOW	5	0.005924
15	21375	2562.5	Q16	36	MID	-2.57	-0.00305
15	21375	2562.5	Q16	36	HIGH	2.82	0.003341
15	21375	2562.5	Q16	75	LOW	2.21	0.002618
15	21100	2535	QPSK	1	LOW	-3.75	-0.00444
15	21100	2535	QPSK	1	MID	3.47	0.004111
15	21100	2535	QPSK	1	HIGH	4.31	0.005107
15	21100	2535	QPSK	36	LOW	2.01	0.002382
15	21100	2535	QPSK	36	MID	-3.17	-0.00376
15	21100	2535	QPSK	36	HIGH	1.42	0.001682
15	21100	2535	QPSK	75	LOW	-1.34	-0.00159
15	21100	2535	Q16	1	LOW	-0.79	-0.00094
15	21100	2535	Q16	1	MID	1.86	0.002204
15	21100	2535	Q16	1	HIGH	4.94	0.005853
15	21100	2535	Q16	36	LOW	-1.95	-0.00231
15	21100	2535	Q16	36	MID	3.53	0.004182
15	21100	2535	Q16	36	HIGH	-0.82	-0.00097
15	21100	2535	Q16	75	LOW	0.37	0.000438
20	20850	2510	QPSK	1	LOW	3.92	0.004645
20	20850	2510	QPSK	1	MID	-1.21	-0.00143
20	20850	2510	QPSK	1	HIGH	-0.8	-0.00095
20	20850	2510	QPSK	50	LOW	-4.39	-0.0052
20	20850	2510	QPSK	50	MID	-4.39	-0.0052
20	20850	2510	QPSK	50	HIGH	-0.74	-0.00088
20	20850	2510	QPSK	100	LOW	-0.12	-0.00014
20	20850	2510	Q16	1	LOW	-2.07	-0.00245
20	20850	2510	Q16	1	MID	1.12	0.001327
20	20850	2510	Q16	1	HIGH	1.39	0.001647
20	20850	2510	Q16	50	LOW	0.25	0.000296
20	20850	2510	Q16	50	MID	2.11	0.0025
20	20850	2510	Q16	50	HIGH	-0.07	-8.3E-05
20	20850	2510	Q16	100	LOW	4.72	0.005592
20	21350	2560	QPSK	1	LOW	-4.37	-0.00518
20	21350	2560	QPSK	1	MID	1.05	0.001244
20	21350	2560	QPSK	1	HIGH	-4.5	-0.00533

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Bandwidth	UL Channel	Frequency	Modulation	RB Size	RB Offset	Frequency error (Hz)	Frequency Error (ppm)
20	21350	2560	QPSK	50	LOW	-3.04	-0.0036
20	21350	2560	QPSK	50	MID	-1.06	-0.00126
20	21350	2560	QPSK	50	HIGH	4.67	0.005533
20	21350	2560	QPSK	100	LOW	4.18	0.004953
20	21350	2560	Q16	1	LOW	-2.78	-0.00329
20	21350	2560	Q16	1	MID	-4.93	-0.00584
20	21350	2560	Q16	1	HIGH	-3.81	-0.00451
20	21350	2560	Q16	50	LOW	-0.62	-0.00073
20	21350	2560	Q16	50	MID	-2.62	-0.0031
20	21350	2560	Q16	50	HIGH	-0.31	-0.00037
20	21350	2560	Q16	100	LOW	-4.5	-0.00533
20	21100	2535	QPSK	1	LOW	-3.97	-0.0047
20	21100	2535	QPSK	1	MID	4.48	0.005308
20	21100	2535	QPSK	1	HIGH	-1.09	-0.00129
20	21100	2535	QPSK	50	LOW	-1.1	-0.0013
20	21100	2535	QPSK	50	MID	4.75	0.005628
20	21100	2535	QPSK	50	HIGH	-3.13	-0.00371
20	21100	2535	QPSK	100	LOW	-3.43	-0.00406
20	21100	2535	Q16	1	LOW	-4.65	-0.00551
20	21100	2535	Q16	1	MID	0.39	0.000462
20	21100	2535	Q16	1	HIGH	-2.27	-0.00269
20	21100	2535	Q16	50	LOW	3.09	0.003661
20	21100	2535	Q16	50	MID	3.48	0.004123
20	21100	2535	Q16	50	HIGH	4.41	0.005225
20	21100	2535	Q16	100	LOW	-2.39	-0.00283

7 OCCUPIED BANDWIDTH& Emission Bandwidth

7.1 Measurement Result

GSM850:

Frequency	OBW(99%)	26dB BW
824.2	245.19KHz	318.91KHz
836.6	245.19KHz	307.69KHz
848.8	243.59KHz	307.69KHz

PCS1900:

Frequency	OBW(99%)	26dB BW
1850.2	243.59KHz	312.50KHz
1880	243.59KHz	310.90KHz
1909.8	245.19KHz	307.69KHz

GPRS850:

Frequency	OBW(99%)	26dB BW
824.2	245.19KHz	317.31KHz
836.6	245.19KHz	315.71KHz
848.8	246.79KHz	322.12KHz

GPRS 1900:

Frequency	OBW(99%)	26dB BW
1850.2	243.59KHz	317.31KHz
1880	243.59KHz	315.71KHz
1909.8	246.79KHz	314.10KHz

EGPRS 850:

Frequency	OBW(99%)	26dB BW
824.2	235.58KHz	282.05KHz
836.6	240.38KHz	286.86KHz
848.8	243.59KHz	302.88KHz

EGPRS 1900:

Frequency	OBW(99%)	26dB BW
1850.2	243.59KHz	315.71KHz
1880	250.00KHz	317.31KHz
1909.8	245.19KHz	318.91KHz

UTRA BANDS
BAND 2:
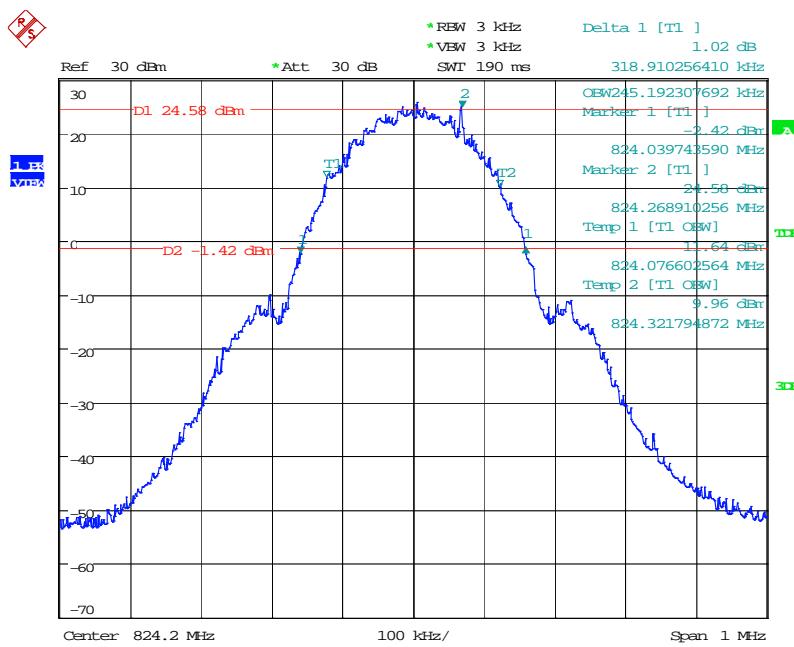
Frequency	OBW(99%)	26dB BW
1852.4	4.199MHz	4.679MHz
1880	4.167MHz	4.696MHz
1907.6	4.231MHz	4.872MHz

BAND 5:

Frequency	OBW(99%)	26dB BW
826.4	4.167MHz	4.679MHz
836.4	4.167MHz	4.647MHz
846.6	4.183MHz	4.696MHz

7.2 Test Plot(s)

Occupied Bandwidth (99% and -26dBc) GSM 850 BAND CH 128

Date: 15.FEB.2017 10:20:13

Occupied Bandwidth (99% and -26dBc) GSM 850 BAND CH 190

Date: 15.FEB.2017 10:26:21

Occupied Bandwidth (99% and -26dBc) GSM 850 BAND CH 251

Date: 15.FEB.2017 10:31:17

Report No.: FCC17010035A-5

Occupied Bandwidth (99% and -26dBc) GSM 1900 BAND CH 512

```
RS

                                          *RBW 3 kHz      Marker 1 [T1 ]
                                          *VBW 3 kHz                -3.59 dBm
        Ref  30 dBm        *Att  30 dB    SWT 190 ms       1.850042949 GHz

    30                                                OBW243.589743590 kHz
                                                      Marker 2 [T1 ]
        D1 22.22 dBm                          2                   22.22 dBm
    20                                                   1.850268910 GHz
                                                      Delta 1 [T1 ]
1 PK                                                             -0.60 dB
VIEW 10            T1                       T2             312.500000000 kHz
                                                      Temp 1 [T1 OBW]
     0                                                          7.70 dBm
        D2 -3.78 dBm                                     1.850076603 GHz
   -10                                                Temp 2 [T1 OBW]
                                                                5.93 dBm
   -20                                                  1.850320192 GHz

   -30                                                              3DB

   -40

   -50

   -60

   -70
        Center 1.8502 GHz          100 kHz/              Span 1 MHz
```

Date: 15.FEB.2017 10:41:57

Occupied Bandwidth (99% and -26dBc) PCS 1900 BAND CH 661

```
RS

                                          *RBW 3 kHz      Delta 1 [T1 ]
                                          *VBW 3 kHz                1.92 dB
        Ref  30 dBm        *Att  30 dB    SWT 190 ms     310.897435896 kHz

    30                                                OBW243.589743590 kHz
                                                      Marker 1 [T1 ]
        D1 22.18 dBm                          2                   -4.38 dBm
    20                                                   1.879842949 GHz
                                                      Marker 2 [T1 ]
1 PK              T1                       T2                    22.10 dBm
VIEW 10                                                  1.879977564 GHz
                                                      Temp 1 [T1 OBW]
     0                                                          9.53 dBm
        D2 -3.82 dBm                                     1.879878205 GHz
   -10                                                Temp 2 [T1 OBW]
                                                                7.55 dBm
   -20                                                  1.880121795 GHz

   -30                                                              3DB

   -40

   -50

   -60

   -70
        Center 1.88 GHz           100 kHz/              Span 1 MHz
```
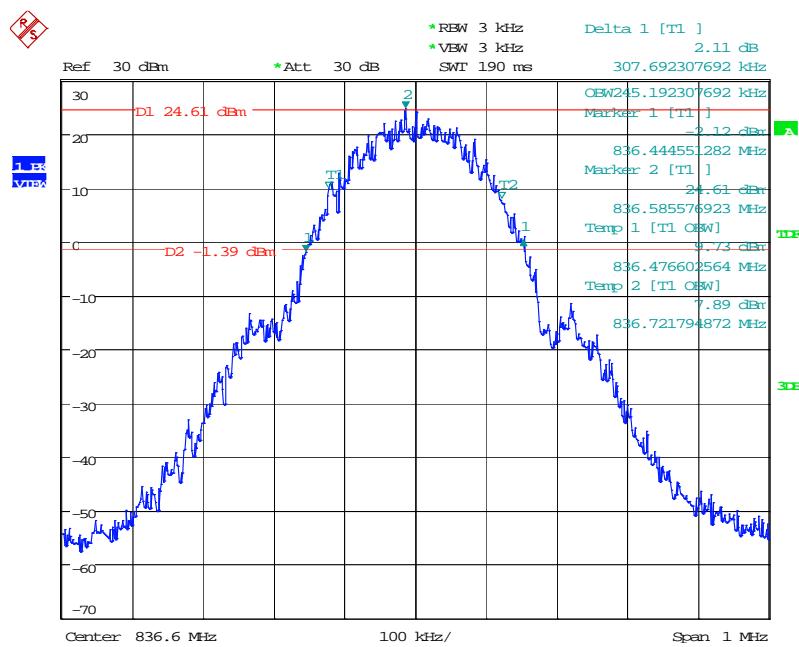
Date: 15.FEB.2017 10:44:52

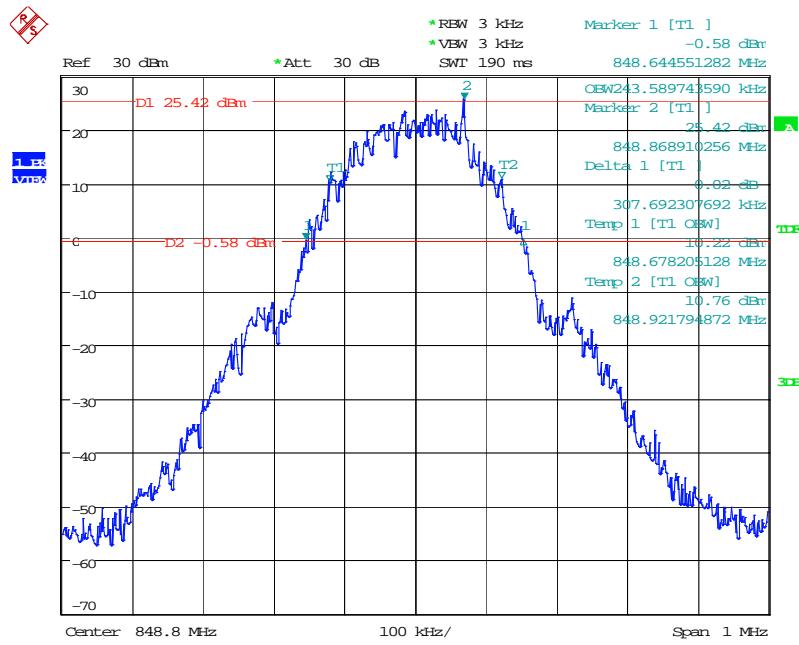*Report No.:* FCC17010035A-5

Occupied Bandwidth (99% and -26dBc) PCS 1900 BAND CH 810

Date: 15.FEB.2017 10:48:31
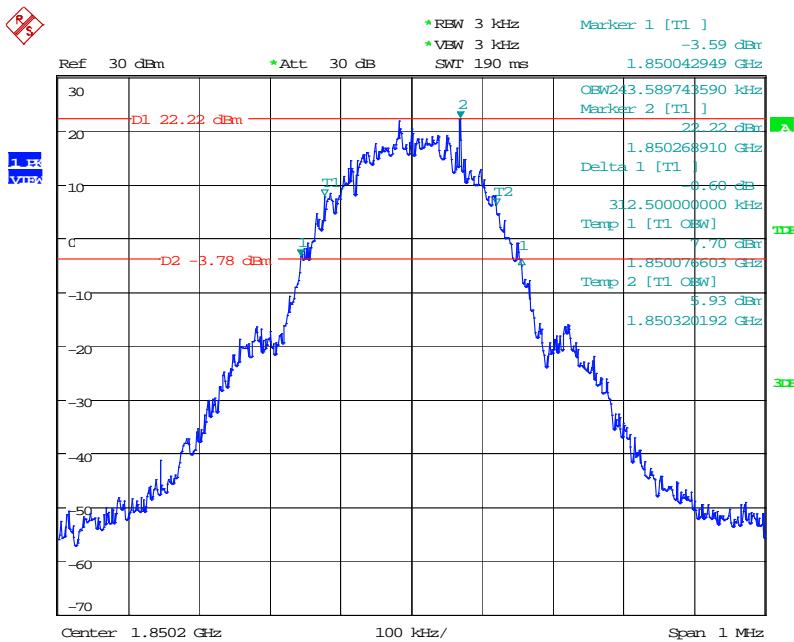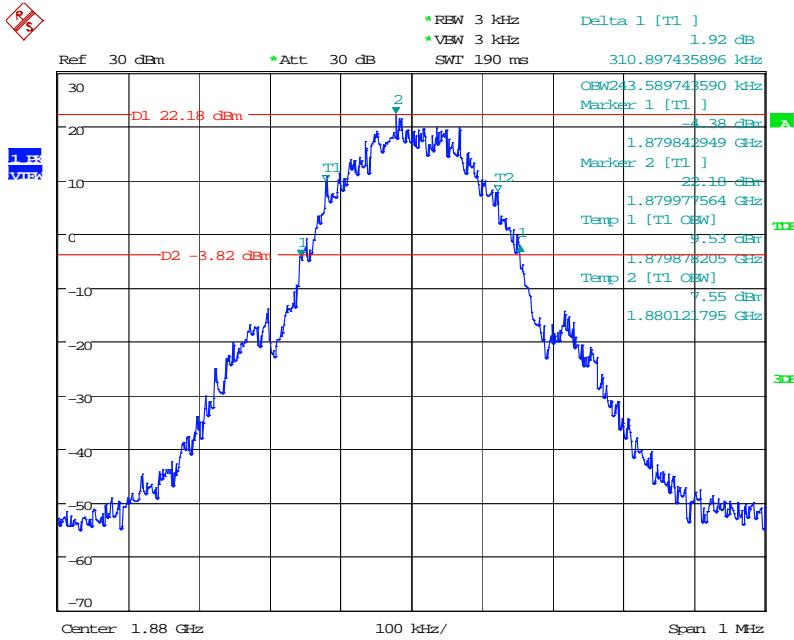
Occupied Bandwidth (99% and -26dBc) GPRS 850 BAND CH 128

Date: 15.FEB.2017 13:29:09

Report No.: FCC17010035A-5

Occupied Bandwidth (99% and -26dBc) GPRS 850 BAND CH 190

```
                                    *RBW  3 kHz      Delta 1 [T1 ]
                                    *VBW  3 kHz                    1.36 dB
     Ref  30 dBm        *Att  30 dB  SWT 190 ms       315.705128205 kHz
     30                                              OBW245.192307692 kHz
     D1 24.38 dBm                          2         Marker 1 [T1 ]
     20                                                         -0.67 dBm
                                                      836.439743590 MHz
     10                                              Marker 2 [T1 ]
                          T1              T2                    24.38 dBm
                                                      836.604807692 MHz
      0    D2 -1.62 dBm                              Temp 1 [T1 OBW]
                       1              1                         8.79 dBm
    -10                                               836.478205128 MHz
                                                     Temp 2 [T1 OBW]
    -20                                                         9.46 dBm
                                                      836.723397436 MHz
    -30
    -40
    -50
    -60
    -70
     Center  836.6 MHz        100 kHz/           Span  1 MHz
```

Date: 15.FEB.2017 13:33:05

Occupied Bandwidth (99% and -26dBc) GPRS 850 BAND CH 251

```
                                    *RBW  3 kHz      Marker 1 [T1 ]
                                    *VBW  3 kHz                 -3.69 dBm
     Ref  30 dBm        *Att  30 dB  SWT 190 ms       848.638141026 MHz
     30                                              OBW246.794871795 kHz
     D1 23.21 dBm                          2         Marker 2 [T1 ]
     20                                                         23.21 dBm
                                                      848.819230769 MHz
     10                                              Delta 1 [T1 ]
                          T1              T2                    1.13 dB
                                                      322.115384615 kHz
      0    D2 -2.79 dBm                              Temp 1 [T1 OBW]
                       1              1                         8.63 dBm
    -10                                               848.678205128 MHz
                                                     Temp 2 [T1 OBW]
    -20                                                         7.60 dBm
                                                      848.925000000 MHz
    -30
    -40
    -50
    -60
    -70
     Center  848.8 MHz        100 kHz/           Span  1 MHz
```

Date: 15.FEB.2017 13:35:52

Report No.: FCC17010035A-5

Occupied Bandwidth (99% and -26dBc) GPRS 1900 BAND CH 512

Date: 15.FEB.2017 10:58:45

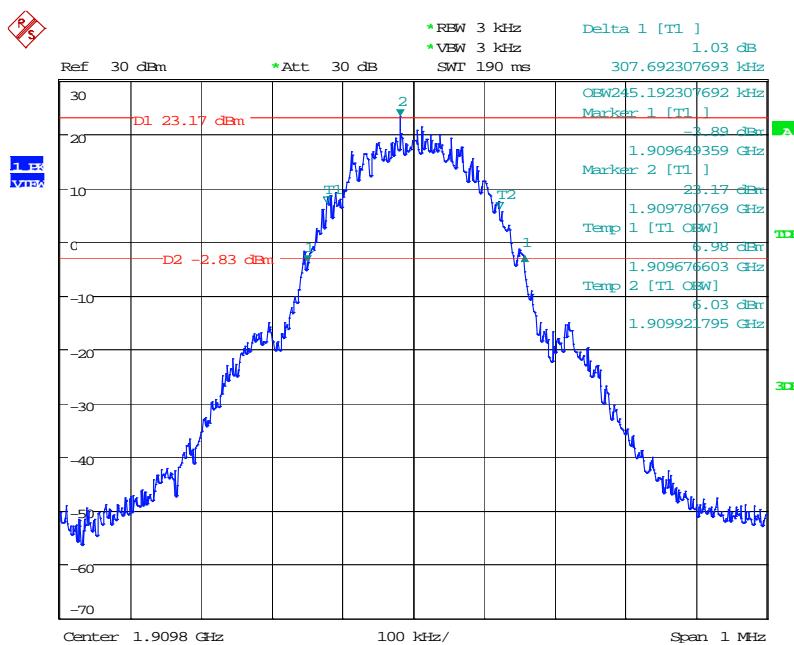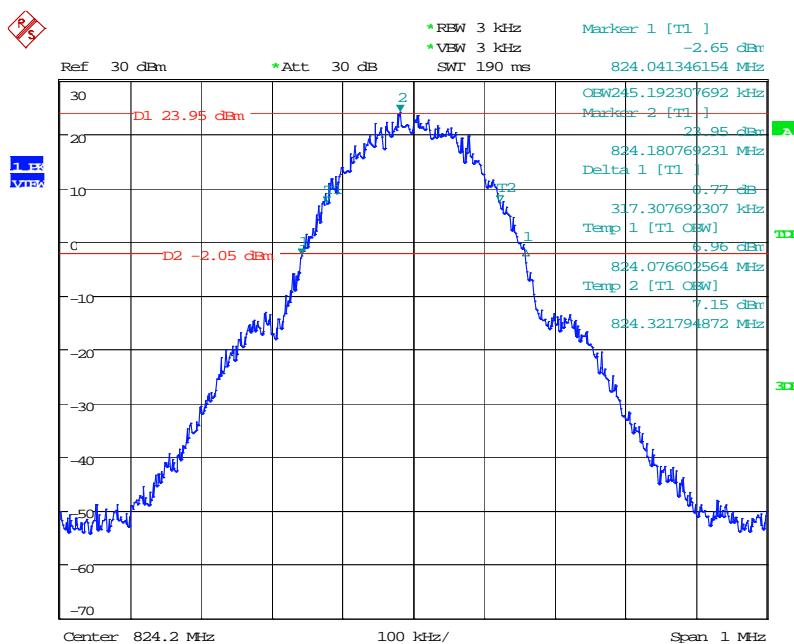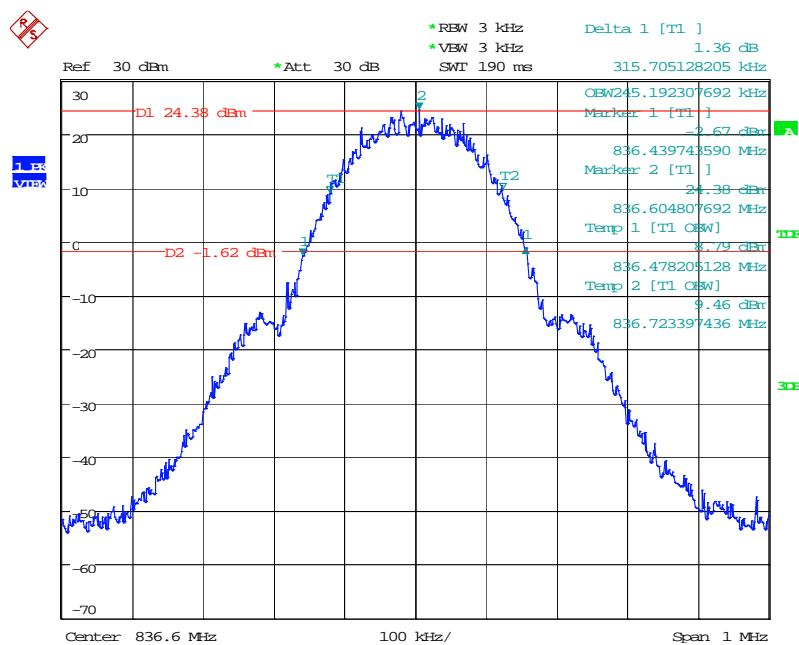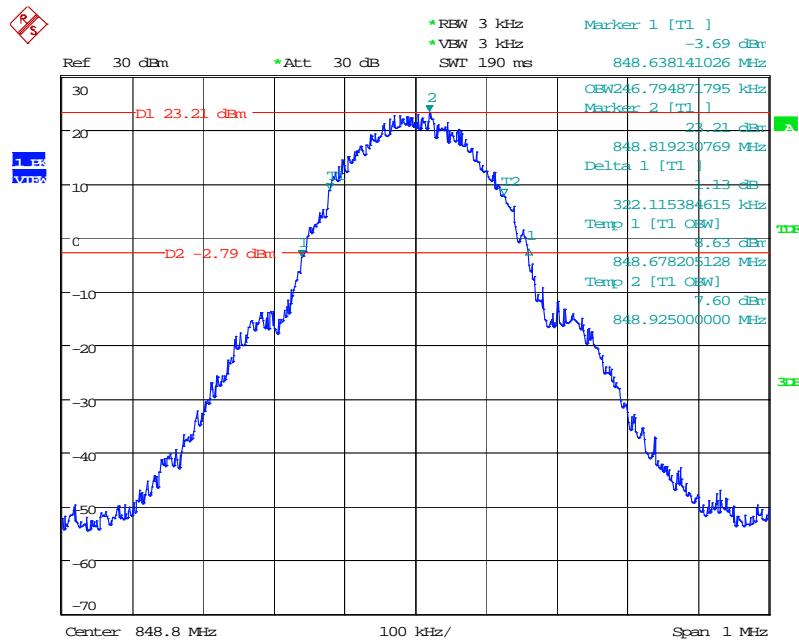## Occupied Bandwidth (99% and -26dBc) GPRS 1900 BAND CH 661

Date: 15.FEB.2017 11:05:37

Report No.: FCC17010035A-5

Occupied Bandwidth (99% and -26dBc) GPRS 1900 BAND CH 810

Date: 15.FEB.2017 11:09:50

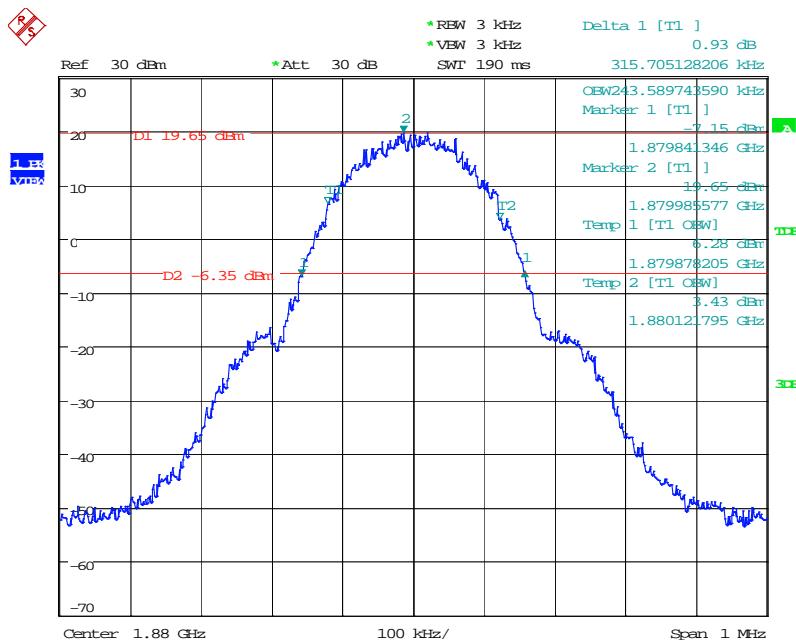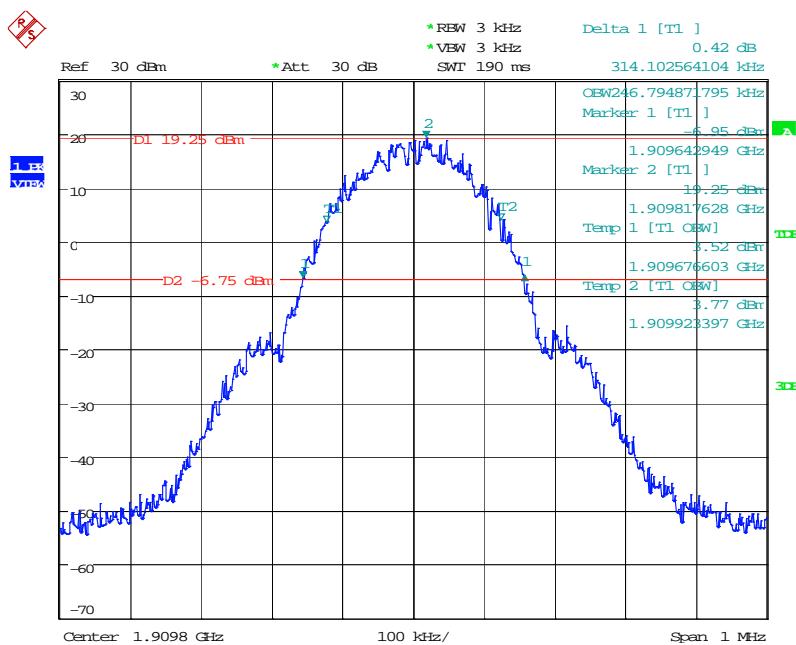## Occupied Bandwidth (99% and -26dBc) EGPRS 850 BAND CH 128
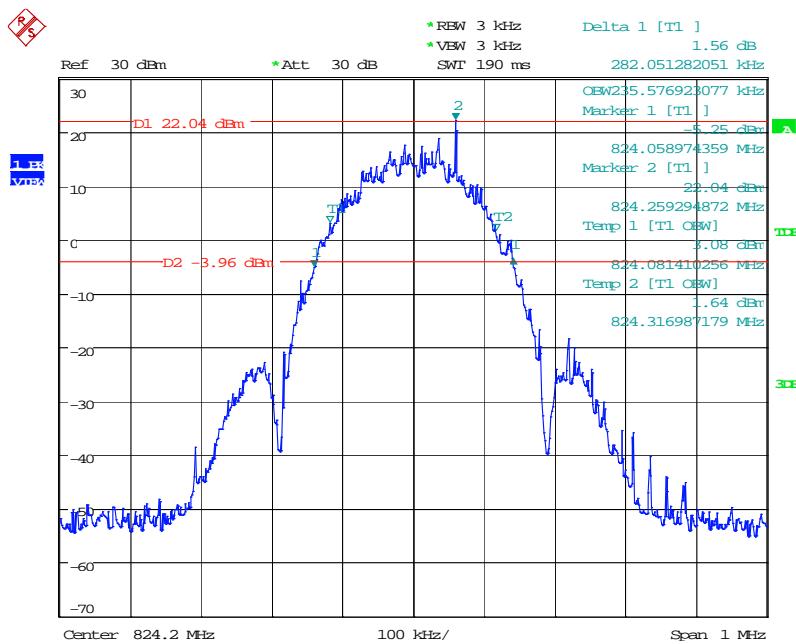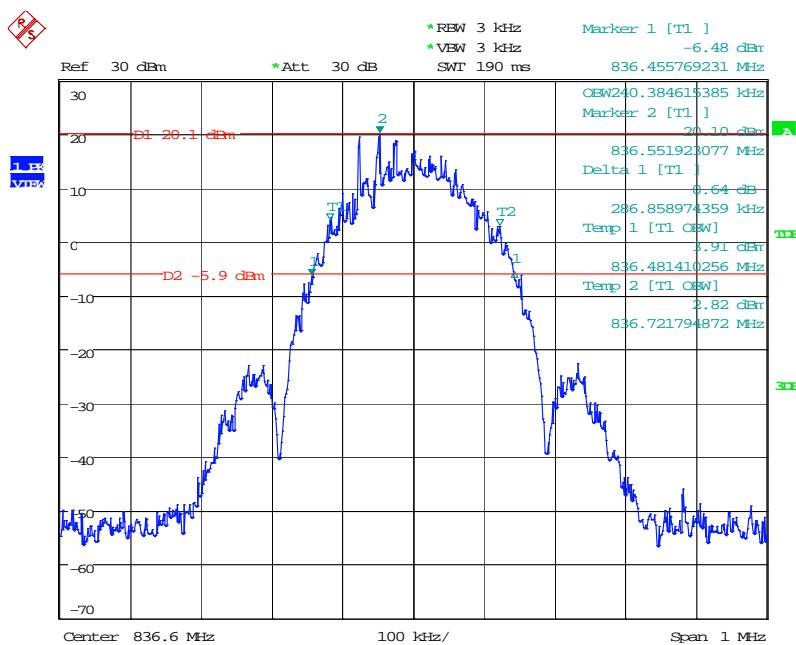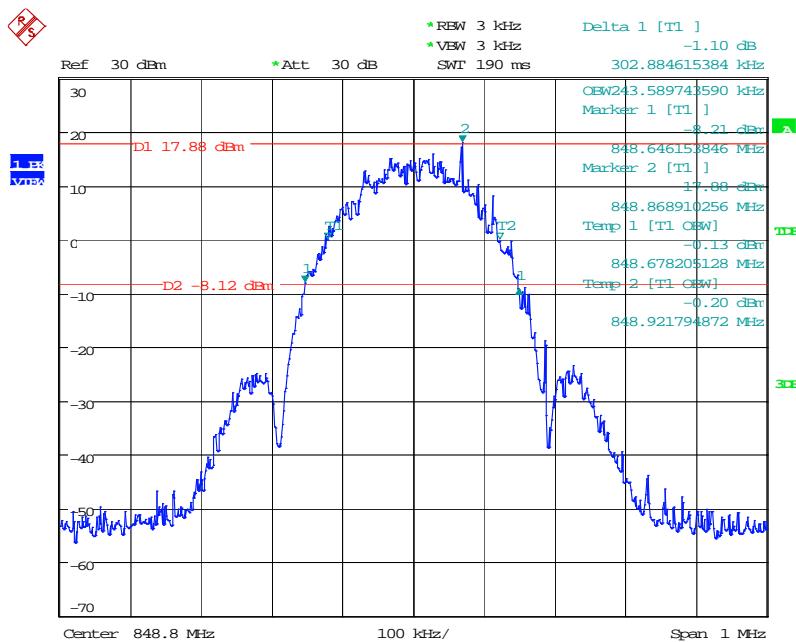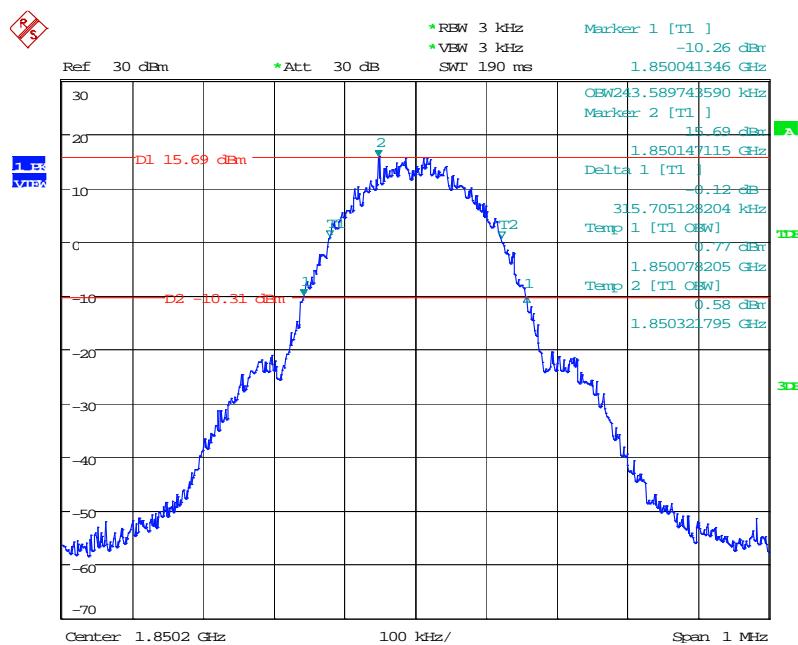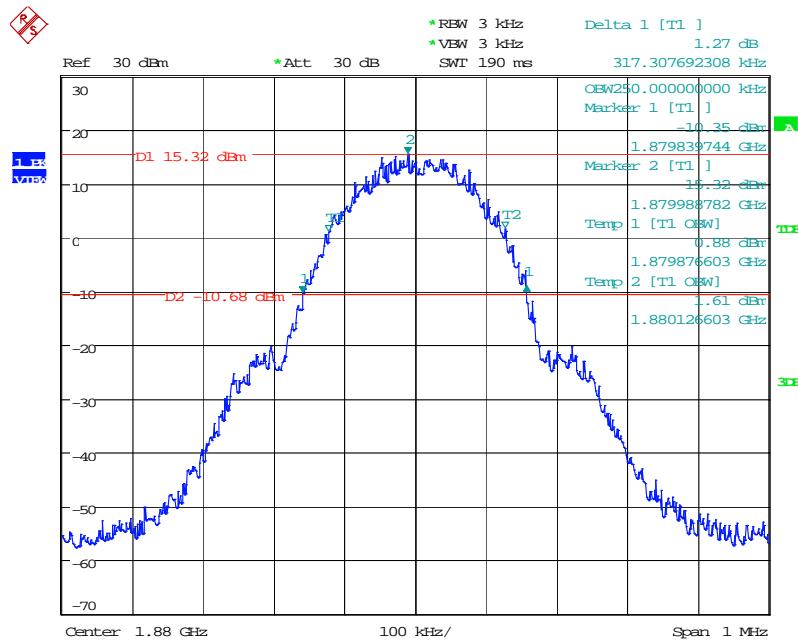

Date: 15.FEB.2017 13:17:39

Report No.: FCC17010035A-5

Occupied Bandwidth (99% and -26dBc) EGPRS 850 BAND CH 190

```
                                    *RBW  3 kHz      Marker 1 [T1 ]
                                    *VBW  3 kHz                  -6.48 dBm
        Ref   30 dBm      *Att   30 dB    SWT 190 ms   836.455769231 MHz
                                                  OBW240.384615385 kHz
     30                                            Marker 2 [T1 ]
                                                             20.10 dBm
     20  D1 20.1 dBm              2                836.551923077 MHz
                                                  Delta 1 [T1 ]
     10                                                     0.64 dB
                                                  286.858974359 kHz
                           T1          T2         Temp 1 [T1 OBW]
     0                                                     3.91 dBm
        D2 -5.9 dBm      1           1            836.481410256 MHz
    -10                                           Temp 2 [T1 OBW]
                                                            2.82 dBm
    -20                                           836.721794872 MHz
    -30
    -40
    -50
    -60
    -70
        Center  836.6 MHz      100 kHz/          Span  1 MHz
```

Date: 15.FEB.2017 13:21:40

Occupied Bandwidth (99% and -26dBc) EGPRS 850 BAND CH 251

```
                                    *RBW  3 kHz      Delta 1 [T1 ]
                                    *VBW  3 kHz                  -1.10 dB
        Ref   30 dBm      *Att   30 dB    SWT 190 ms   302.884615384 kHz
                                                  OBW243.589743590 kHz
     30                                            Marker 1 [T1 ]
                                                             8.21 dBm
     20  D1 17.88 dBm             2                848.646153846 MHz
                                                  Marker 2 [T1 ]
     10                                                    17.88 dBm
                           T1          T2         848.868910256 MHz
     0                                            Temp 1 [T1 OBW]
                                                           -0.13 dBm
    -10 D2 -8.12 dBm      1           1            848.678205128 MHz
                                                  Temp 2 [T1 OBW]
    -20                                                    -0.20 dBm
    -30                                           848.921794872 MHz
    -40
    -50
    -60
    -70
        Center  848.8 MHz      100 kHz/          Span  1 MHz
```

Date: 15.FEB.2017 13:25:03

Report No.: FCC17010035A-5

Occupied Bandwidth (99% and -26dBc) EGPRS 1900 BAND CH 512


```
                              *RBW  3 kHz        Marker 1 [T1 ]
                              *VBW  3 kHz                -10.26 dBm
   Ref   30 dBm      *Att   30 dB     SWT  190 ms        1.850041346 GHz
                                                  OBW243.589743590 kHz
   30                                             Marker 2 [T1 ]
                                                          15.69 dBm
   20                                             1.850147115 GHz
         D1 15.69 dBm                             Delta 1 [T1 ]
   10                                                      0.12 dB
                                                  315.705128204 kHz
    0                                             Temp 1 [T1 OBW]
                                                          0.77 dBm
  -10      D2 -10.31 dBm                          1.850078205 GHz
                                                  Temp 2 [T1 OBW]
  -20                                                     0.58 dBm
                                                  1.850321795 GHz
  -30

  -40

  -50

  -60

  -70
   Center  1.8502 GHz         100 kHz/              Span  1 MHz
```

Date: 15.FEB.2017 13:05:42

Occupied Bandwidth (99% and -26dBc) EGPRS 1900 BAND CH 661


```
                              *RBW  3 kHz        Delta 1 [T1 ]
                              *VBW  3 kHz                 1.27 dB
   Ref   30 dBm      *Att   30 dB     SWT  190 ms        317.307692308 kHz
                                                  OBW250.000000000 kHz
   30                                             Marker 1 [T1 ]
                                                          -10.35 dBm
   20                                             1.879839744 GHz
         D1 15.32 dBm                             Marker 2 [T1 ]
   10                                                     15.32 dBm
                                                  1.879988782 GHz
    0                                             Temp 1 [T1 OBW]
                                                          0.88 dBm
  -10      D2 -10.68 dBm                          1.879876603 GHz
                                                  Temp 2 [T1 OBW]
  -20                                                     1.61 dBm
                                                  1.880126603 GHz
  -30

  -40

  -50

  -60

  -70
   Center  1.88 GHz           100 kHz/              Span  1 MHz
```
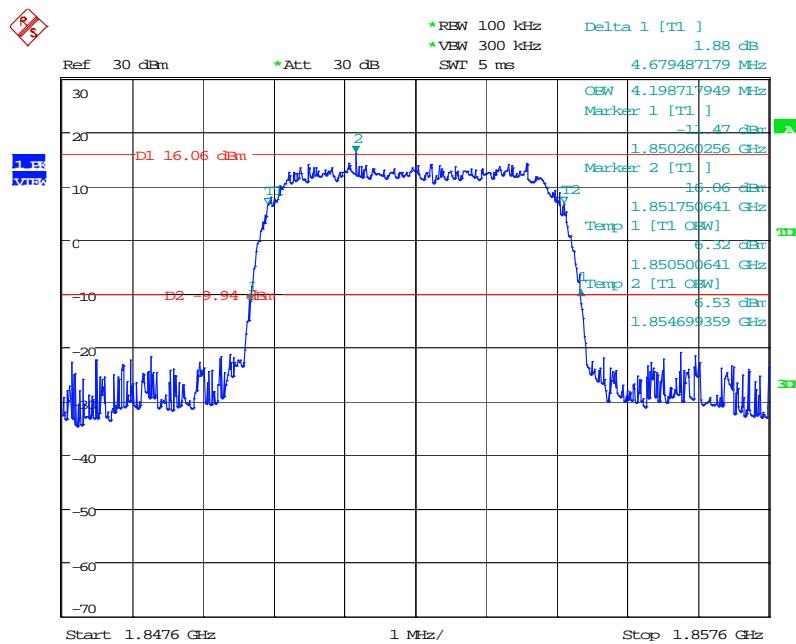
Date: 15.FEB.2017 13:07:48

Occupied Bandwidth (99% and -26dBc) EGPRS 1900 BAND CH 810

Date: 15.FEB.2017 13:09:38

UTRA BANDS
Occupied Bandwidth (99% and -26dBc) WCDMA BAND II CH 9262

Date: 15.FEB.2017 09:59:33

Report No.: FCC17010035A-5
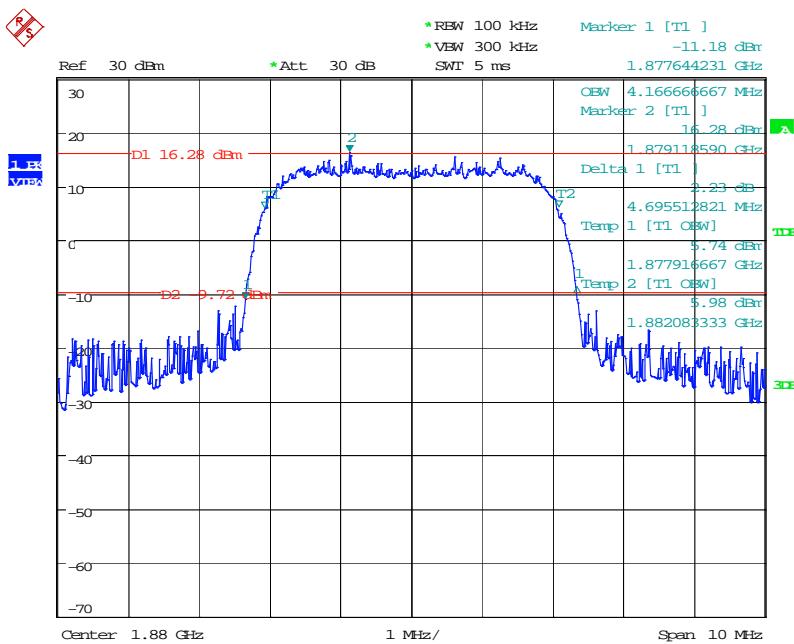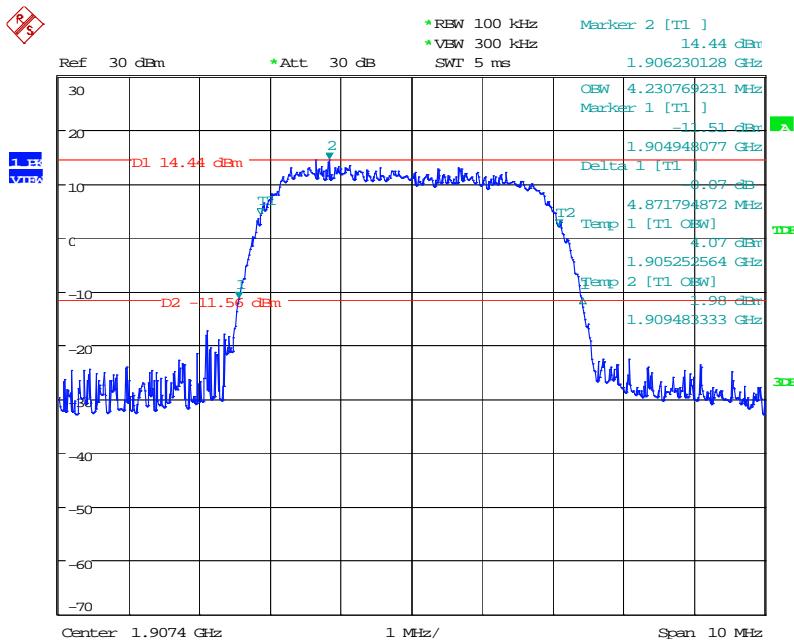
Occupied Bandwidth (99%and-26dBc) WCDMA BAND II CH 9400

Date: 15.FEB.2017 10:01:51
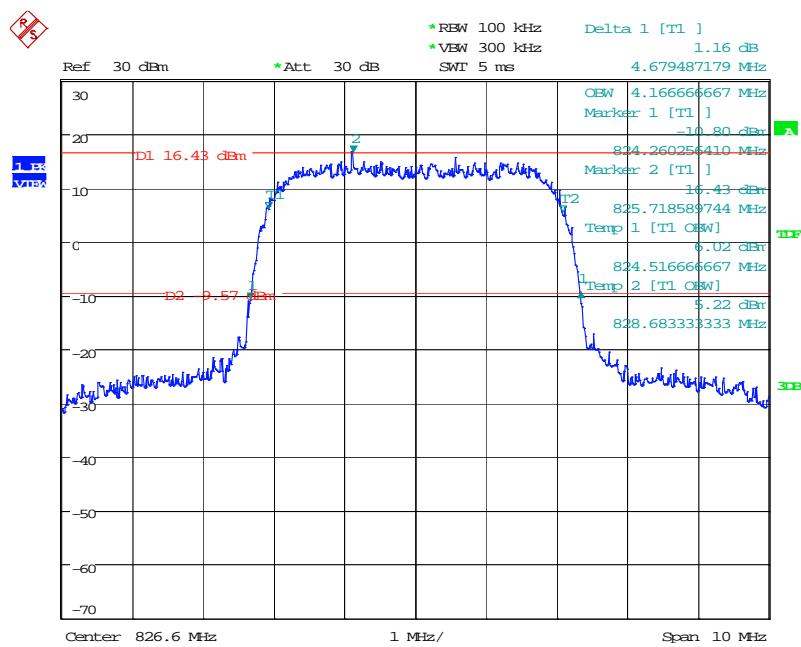
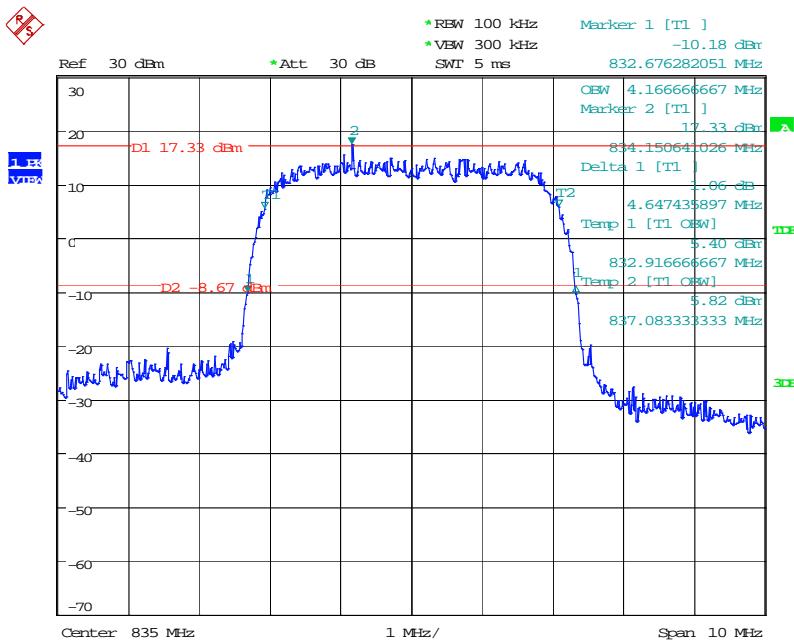## Occupied Bandwidth (99%and-26dBc) WCDMA BAND II CH 9538

Report No.: FCC17010035A-5

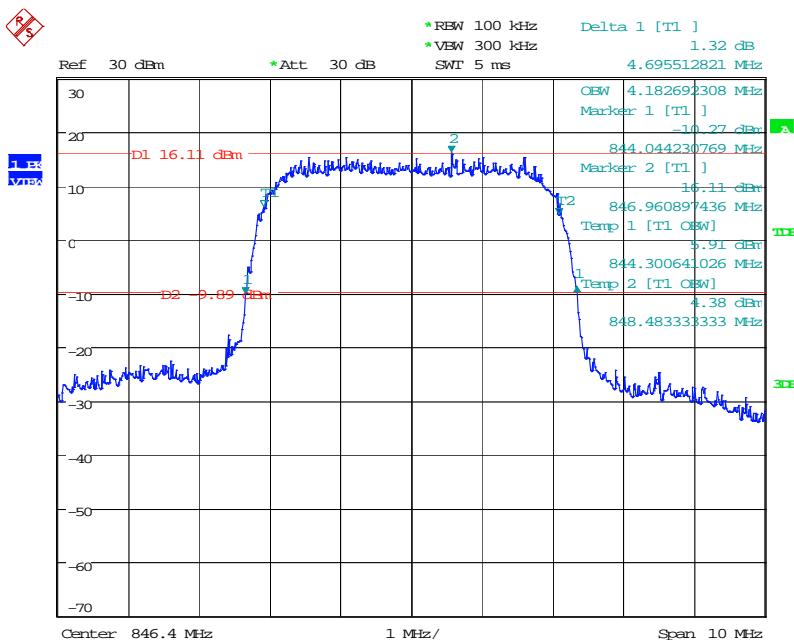## Occupied Bandwidth (99%and-26dBc) WCDMA BAND V CH 4132

Date: 15.FEB.2017 09:46:51

Occupied Bandwidth (99%and-26dBc) WCDMA BAND V CH 4182

Date: 15.FEB.2017 09:43:57

Occupied Bandwidth (99%and-26dBc) WCDMA BAND V CH 4233

Date: 15.FEB.2017 09:52:19

Report No.: FCC17010035A-5