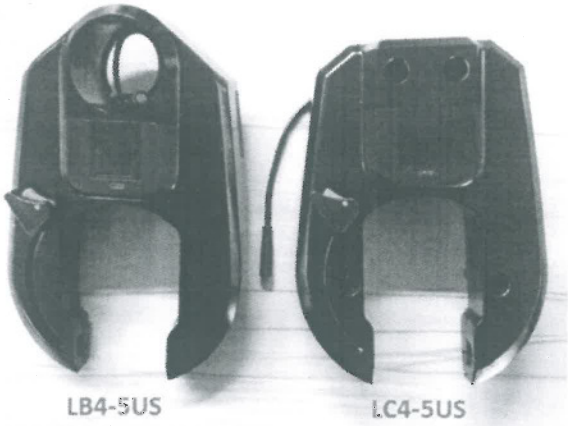


Prüfbericht-Nr.: 50070785 001 <i>Test Report No.:</i>		Auftrags-Nr.: 154220594 <i>Order No.:</i>		Seite 1 von 51 <i>Page 1 of 51</i>	
Kunden-Referenz-Nr.: 654233 <i>Client Reference No.:</i>		Auftragsdatum: 01.03.2017 <i>Order date:</i>			
Auftraggeber: <i>Client:</i>		MOBIKE (HONGKONG) LIMITED 2/F HONGKONG OFFSHORE CTR 28, AUSTIN AVENUE TST KLN, HONGKONG			
Prüfgegenstand: <i>Test item:</i>		Mobike Lock			
Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i>		LB4-5US; LC4-5US FCC ID: 2AK4SLBC4-5US			
Auftrags-Inhalt: <i>Order content:</i>		Complete test			
Prüfgrundlage: <i>Test specification:</i>		FCC CFR47 Part 22, Subpart H FCC CFR47 Part 24, Subpart E			
Wareneingangsdatum: 12.09.2016 <i>Date of receipt:</i>					
Prüfmuster-Nr.: A000475161-001 <i>Test sample No.:</i>					
Prüfzeitraum: 01.19.2017 to 01.20.2017 <i>Testing period:</i>					
Ort der Prüfung: MRT Technology(Suzhou) Co., Ltd. <i>Place of testing:</i>					
Prüflaboratorium: TÜV Rheinland (Shanghai) Co., Ltd. <i>Testing laboratory:</i>					
Prüfergebnis*: Pass <i>Test result*:</i>					
geprüft von / tested by:					
02.07.2017 Datum <i>Date</i>		Elliot Zhang / Senior Project Engineer Name / Stellung <i>Name / Position</i>		02.07.2017 Datum <i>Date</i>	
		Shi Li / Section Manager Name / Stellung <i>Name / Position</i>		02.07.2017 Datum <i>Date</i>	
		Unterschrift <i>Signature</i>		Unterschrift <i>Signature</i>	
Sonstiges / Other					
Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i>					
Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged</i>					
* Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(s) N/A = not applicable N/T = not tested					
Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens. <i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i>					

TEST SUMMARY

5.1.1 RADIATED POWER

RESULT: Pass

5.1.2 PEAK-AVERAGE RATIO

RESULT: Pass

5.1.3 OCCUPIED BANDWIDTH

RESULT: Pass

5.1.4 SPURIOUS EMISSIONS AT ANTENNA TERMINALS

RESULT: Pass

5.1.5 BANDEDGE SPURIOUS EMISSION AT ANTENNA TERMINALS

RESULT: Pass

5.1.6 RADIATED SPURIOUS EMISSIONS

RESULT: Pass

5.1.7 FREQUENCY STABILITY

RESULT: Pass

Contents

1.	GENERAL REMARKS	4
1.1	COMPLEMENTARY MATERIALS	4
2.	TEST SITES	4
2.1	TEST FACILITIES	4
2.2	LIST OF TEST AND MEASUREMENT INSTRUMENTS	5
2.3	TRACEABILITY	5
2.4	CALIBRATION	6
2.5	MEASUREMENT UNCERTAINTY	6
3.	GENERAL PRODUCT INFORMATION	7
3.1	PRODUCT FUNCTION AND INTENDED USE	7
3.2	RATINGS AND SYSTEM DETAILS	7
3.3	INDEPENDENT OPERATION MODES	8
3.4	NOISE GENERATING AND NOISE SUPPRESSING PARTS	9
3.5	SUBMITTED DOCUMENTS	9
4.	TEST SET-UP AND OPERATION MODES	10
4.1	PRINCIPLE OF CONFIGURATION SELECTION	10
4.2	TEST OPERATION AND TEST SOFTWARE	10
4.3	SPECIAL ACCESSORIES AND AUXILIARY EQUIPMENT	10
4.4	COUNTERMEASURES TO ACHIEVE EMC COMPLIANCE	10
5.	TEST RESULTS	11
5.1	TRANSMITTER REQUIREMENT & TEST SUITES	11
5.1.1	Radiated Power	11
5.1.2	Peak-Average Ratio	12
5.1.3	Occupied Bandwidth	13
5.1.4	Spurious Emissions at Antenna Terminals	20
5.1.5	Bandedge Spurious Emission at Antenna Terminals	39
5.1.6	Radiated Spurious Emissions	46
5.1.7	Frequency Stability	48
6.	LIST OF TABLES	50
7.	LIST OF FIGURES	50

1. General Remarks

1.1 Complementary Materials

Null.

2. Test Sites

2.1 Test Facilities

MRT Technology (Suzhou) Co., Ltd.

D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China

The used test equipment is in accordance with CISPR 16 for measurement of radio interference.

The Federal Communications Commission has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance with the requirements of section 2.948 of the FCC rules. The description of the test facility is listed under FCC registration number 809388.

The Industry Canada has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance. The description of the test facility is listed under chambers filing number 11384A.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment
Radiated Test Equipments

Instrument	Manufacturer	Type No.	Asset No.	Cali. Due Date
Spectrum Analyzer	Agilent	N9020A	MY52090106	05.08.2017
EMI Test Receiver	R&S	ESR 3.6	102030	05.08.2017
Radio Communication Tester	R&S	CMU 200	117129	11.10.2017
Preamplifier	Schwarzbeck	BBV 9718	302	04.16.2017
Preamplifier	Schwarzbeck	BBV9721	9721-008	04.16.2017
Loop Antenna	Schwarzbeck	FMZB1519	1519-041	11.21.2017
Bilog Period Antenna	Schwarzbeck	VULB 9168	662	11.18.2017
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	1457	11.18.2017
Broadband Horn Antenna	Schwarzbeck	BBHA9170	BBHA9170549	01.03.2018
ESG Vector Signal Generator	Agilent	E4438C	MY49872484	12.06.2017
Broad-Band Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1167	10.22.2017
Half-Wave Tuned Dipole Antenna	Schwarzbeck	UHA 9105	UHA 91052260	12.24.2017
Temperature/Humidity Meter	Yuhuaze	ETH529	N/A	12.24.2017
Anechoic Chamber	RIKEN	Chamber-AC2	N/A	05.10.2017

Conducted Test Equipments

Instrument	Manufacturer	Type No.	Asset No.	Cali. Due Date
EXA Signal Analyzer	Agilent	N9010A	MY51440166	06.23.2017
Radio Communication Tester	R&S	CMU 200	117129	11.10.2017
USB Wideband Power Sensor	Boonton	55006	8911	05.07.2017
Programmable Temperature & Humidity Chamber	BAOYT	BYH-1500L	1309W043	12.08.2017
Temperature/Humidity Meter	Yuhuaze	HTC-2	N/A	12.20.2017

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.5 Measurement Uncertainty

Table 2: Measurement Uncertainty

Item	Conditions	Extended Uncertainty
RF Output Power	Conducted	$\pm 0.42\text{dB}$
Occupied Bandwidth	Conducted	$\pm 1.5\%$
Frequency Stability	Conducted	2.3%
Conducted Spurious Emission	Conducted	$\pm 2.17\text{dB}$
Transmitter Spurious Emissions	Radiated	$\pm 5.1\text{dB}$

3. General Product Information

3.1 Product Function and Intended Use

The EUTs (Equipments Under Test) are smart locks which use the technic of GSM / WCDMA / GPS / Bluetooth 4.0 Low Enrgy Only. There are two models: LB4-5US and LC4-5US, all of the two models are the same except the corresponding structure due to different installation method. For details please refer to the user manual and EUT Photos.

The aim of this report is to evalute the RF characteristic of the GSM.

For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

General Description of EUT	
Product Name:	Mobike Lock
Brand Name:	mobike
Model No.:	LB4-5US; LC4-5US
Rated Voltage:	DC 3.7V
Type of Product:	Mobile Device
GSM	
Support Networks:	GPRS, EDGE
Supprot Bands:	Dual band GSM 850/1900MHz
Frequency Range:	GSM850: Tx: 824-849MHz, Rx: 869-894MHz PCS1900: Tx: 1850-1910MHz, Rx: 1930-1990MHz
Modulation Type:	GMSK, 8PSK
Multislot Class:	GPRS: Class 12 EDGE: Class 12
Mobile Station Class:	GPRS: Class B EDGE: Class B
Antenna Type:	PIFA
Antenna Gain:	1.23 dBi
WCDMA	
Support Networks:	WCDMA,HSDPA, HSUPA
Support Bands:	Dual band UMTS 850/1900
Frequency Range:	CLR850: Tx: 824-849MHz, Rx: 869-894MHz PCS1900: Tx: 1850-1910MHz, Rx: 1930-1990MHz

Modulation Type:	BPSK, QPSK, 16QAM
Category:	WCDMA: up to 384kbps DL/UL HSDPA: Cat.8 HSUPA: Cat.6
Antenna Type:	PIFA
Antenna Gain:	1.23 dBi
BLE	
Frequency Range:	2402 – 2480MHz
Modulation Type:	GFSK
Antenna Type:	Monopole
Antenna Gain:	4.83 dBi

Table 4: RF Channel and Frequency

Support Band	Support Network	Channel Number	Channel Frequency
GSM 850	GPRS/EDGE	128	824.2 MHz
		190	836.6 MHz
		251	848.8 MHz
GSM 1900	GPRS/EDGE	512	1850.2 MHz
		661	1880.0 MHz
		810	1909.8 MHz

3.3 Independent Operation Modes

Test Mode	Network	Band	Channel
TM1	GPRS	GSM 850	128
TM2			190
TM3			251
TM4		GSM 1900	512
TM5			661
TM6			810
TM7	EDGE	GSM 850	128
TM8			190
TM9			251
TM10		GSM 1900	512
TM11			661
TM12			810

Note:

According to the difference between the two models, which will not affect the test result, the Model LB4-5US was chosen for the all tests.

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- | | |
|--------------------|----------------------|
| - Bill of Material | - Circuit Diagram |
| - PCB Layout | - Instruction Manual |
| - Photo Document | - Rating Label |

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

The EUT was controlled by Telecommunication Tester Set CMU200 during the test. Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI/TIA-603-D (2010).

4.3 Special Accessories and Auxiliary Equipment

Null.

4.4 Countermeasures to achieve EMC Compliance

Null.

Note: ERP (dBm) = SG Reading (dBm) - Cable Loss (dB) + Substitute Antenna Gain (dBd)

5.1.2 Peak-Average Ratio

RESULT:**Pass**

Date of testing : 01.20.2017
Test standard : FCC Part 24.232 (d)
Limit : <13dB
Kind of test site : Shielded room

Test setup

Test Channel : Middle
Operation Mode : TM5, TM11
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Table 6: Peak Average Ratio

Test Mode	Frequency [MHz]	Peak – Average Ratio [dB]	Limit
TM5	1880.0	9.87	<13dB
TM11	1880.0	10.05	

5.1.3 Occupied Bandwidth

RESULT:
Pass

Date of testing : 01.19.2017
 Test standard : FCC Part 2.1049
 Limit : N/A
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : TM1 to TM12
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

Table 7: Occupied Bandwidth

Test Mode	Network	Band	Channel	Frequency [MHz]	99% bandwidth [kHz]	26dB bandwidth [kHz]
TM1	GPRS	GSM 850	128	824.2	244.09	316.2
TM2			190	836.6	240.39	309.3
TM3			251	848.8	244.67	314.0
TM4		GSM 1900	512	1850.2	244.55	309.3
TM5			661	1880.0	248.06	318.3
TM6			810	1909.8	243.48	313.6
TM7	EDGE	GSM 850	128	824.2	243.43	311.7
TM8			190	836.6	243.97	312.2
TM9			251	848.8	243.47	320.4
TM10		GSM 1900	512	1850.2	242.68	309.5
TM11			661	1880.0	246.03	313.0
TM12			810	1909.8	244.99	320.1

Figure 1: Occupied Bandwidth, TM1

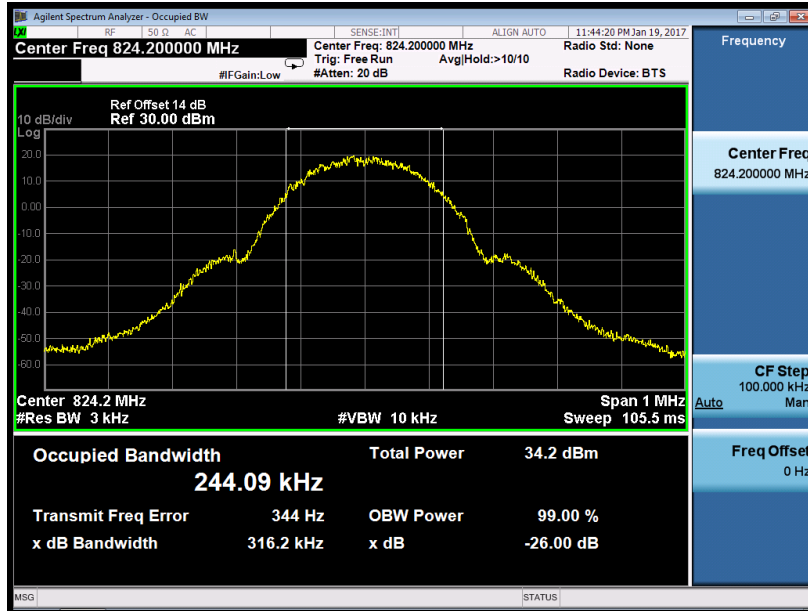


Figure 2: Occupied Bandwidth, TM2

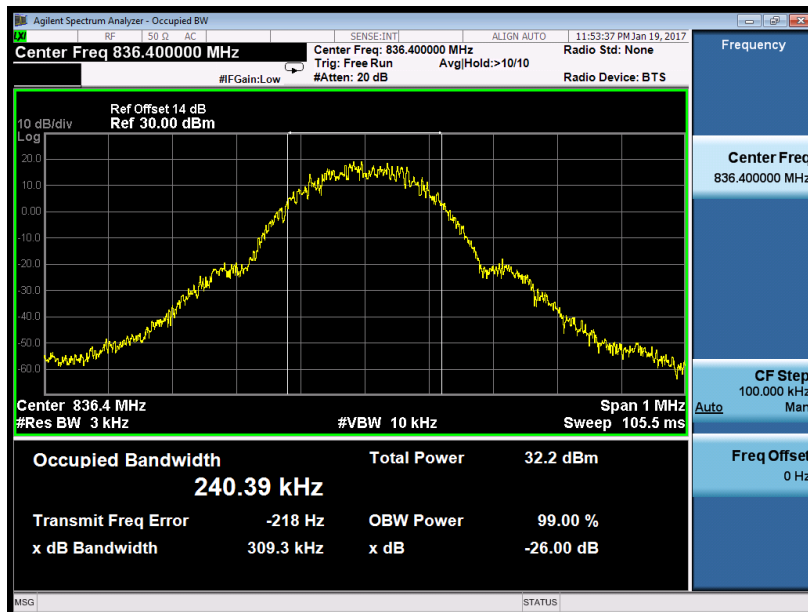


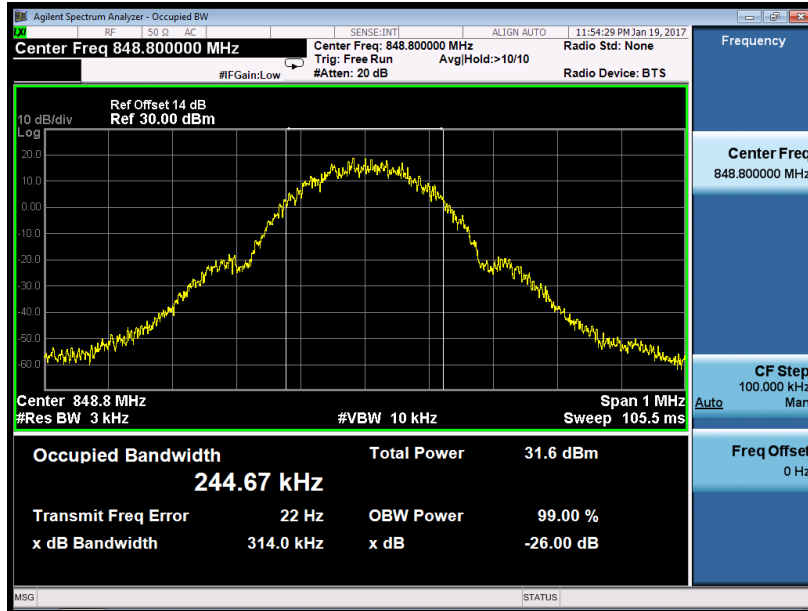
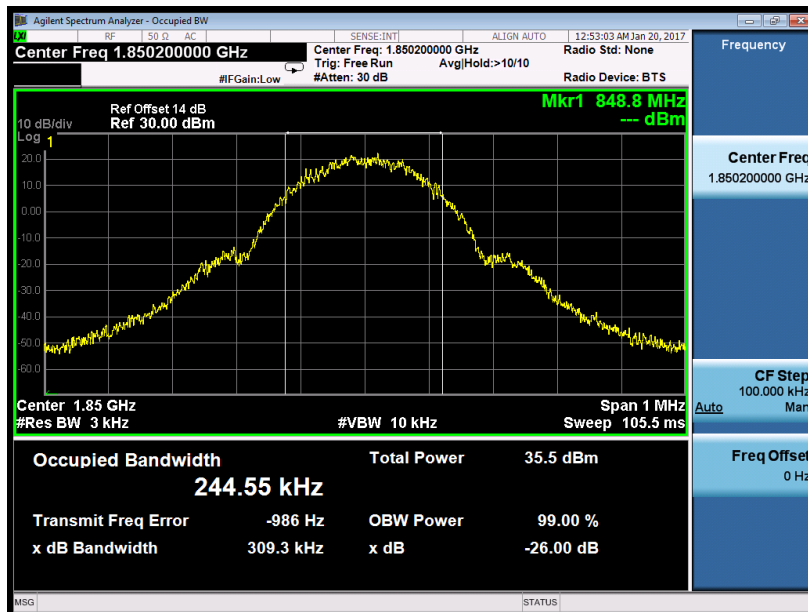
Figure 3: Occupied Bandwidth, TM3

Figure 4: Occupied Bandwidth, TM4


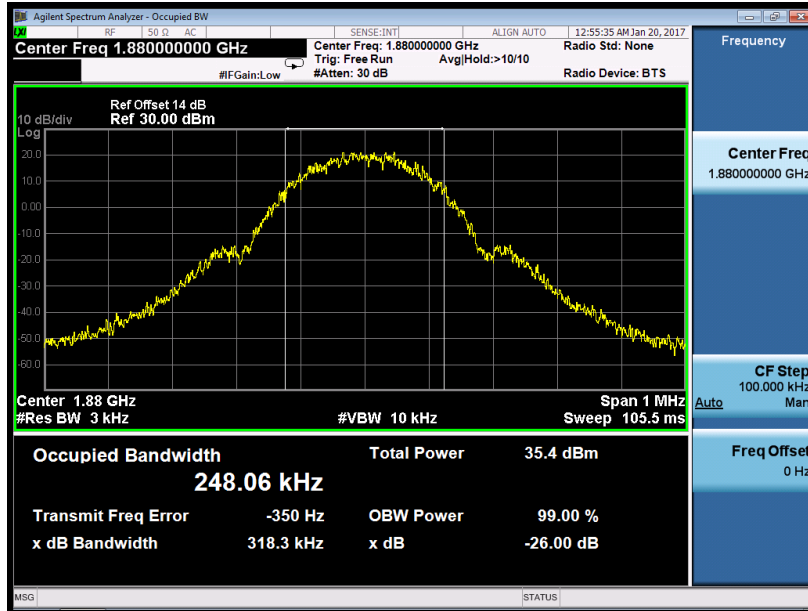
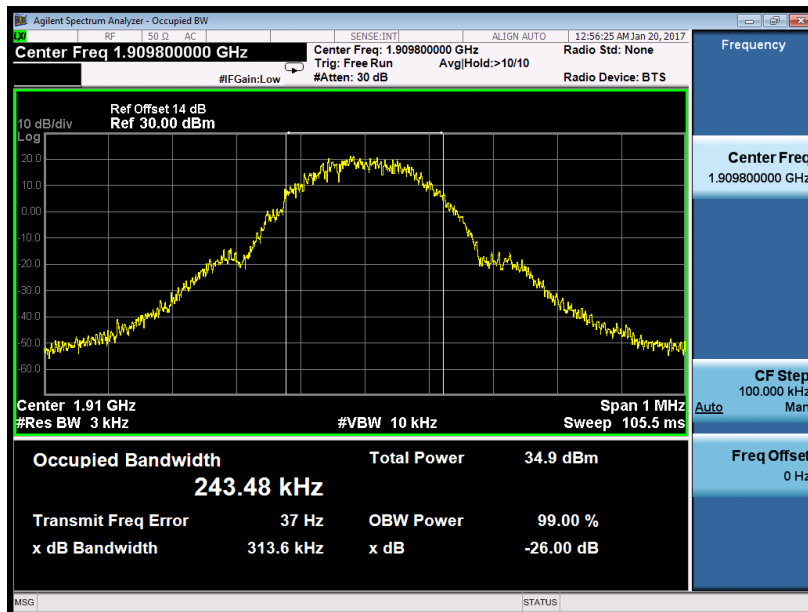
Figure 5: Occupied Bandwidth, TM5

Figure 6: Occupied Bandwidth, TM6


Figure 7: Occupied Bandwidth, TM7

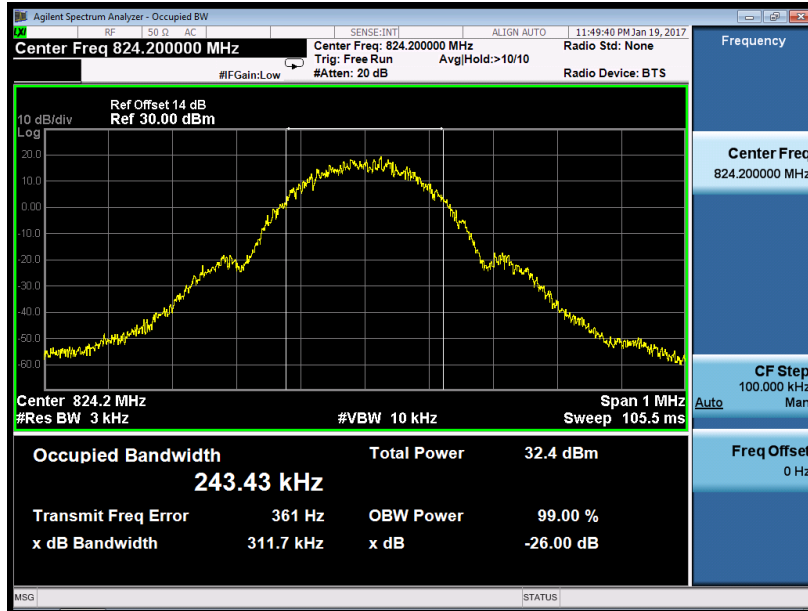


Figure 8: Occupied Bandwidth, TM8

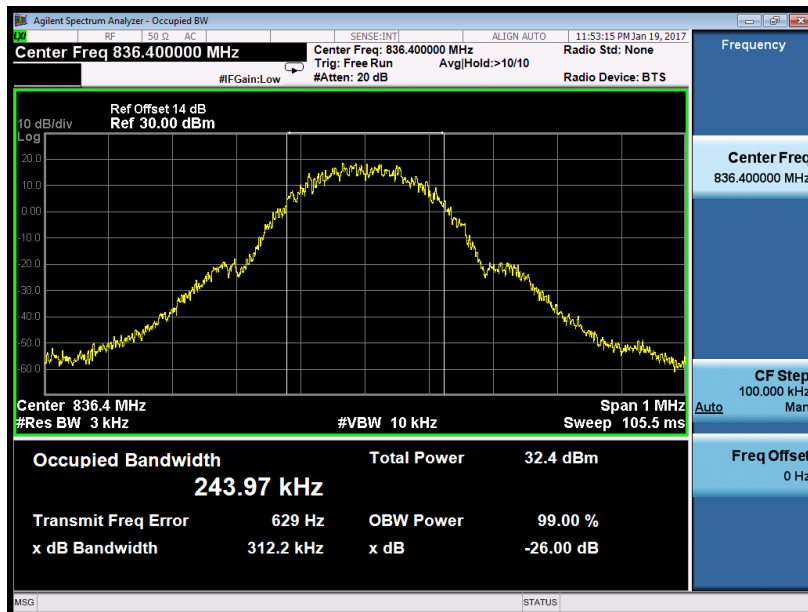


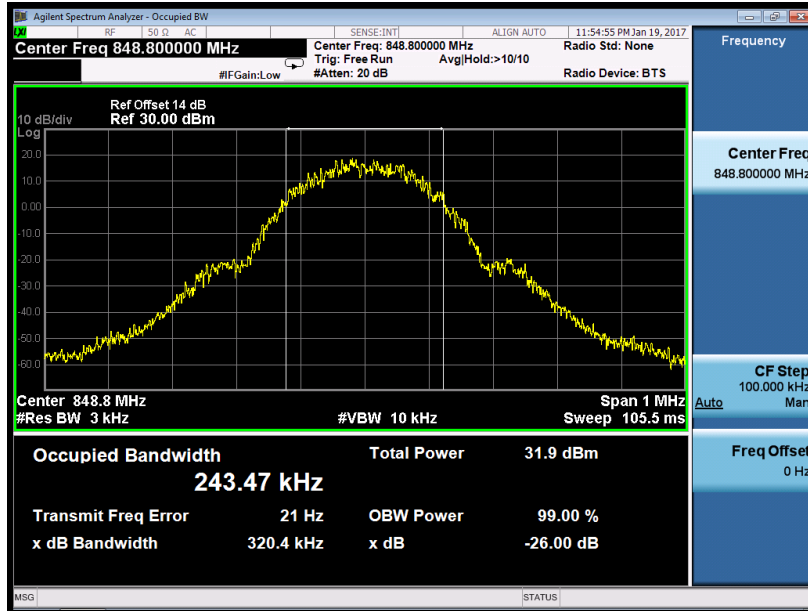
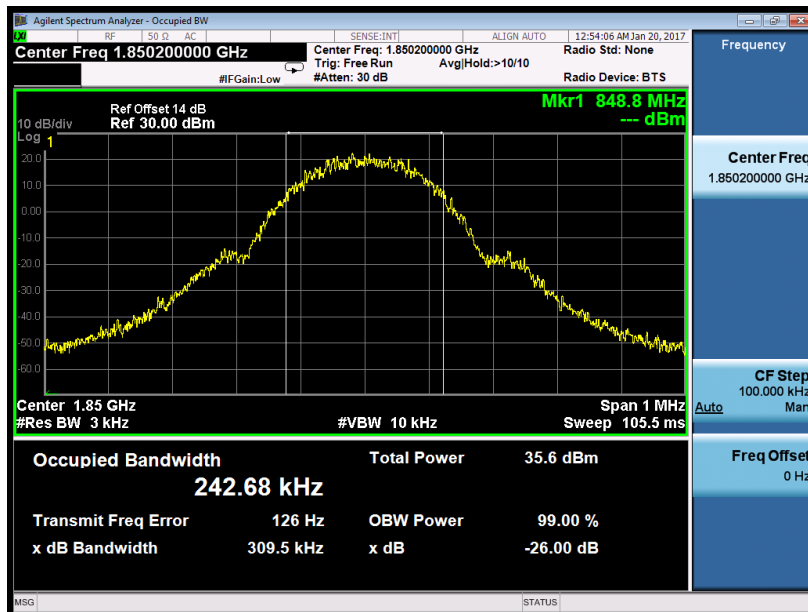
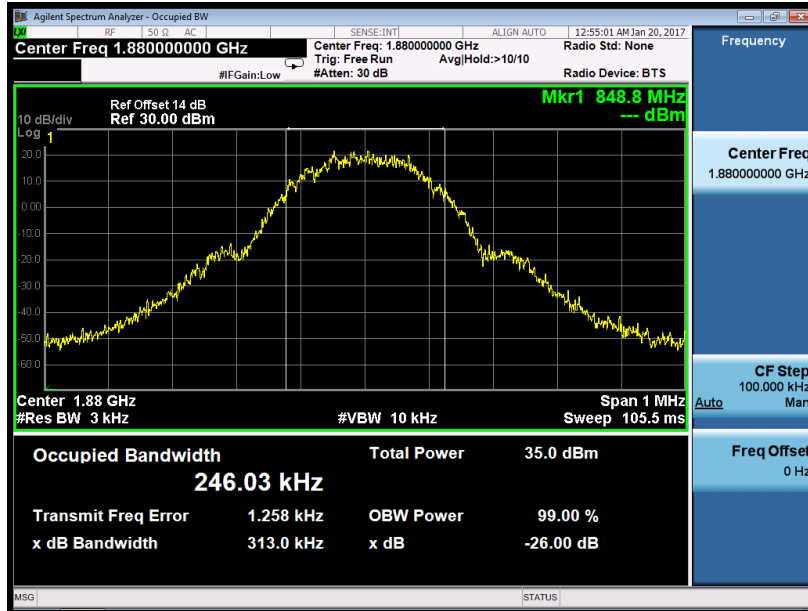
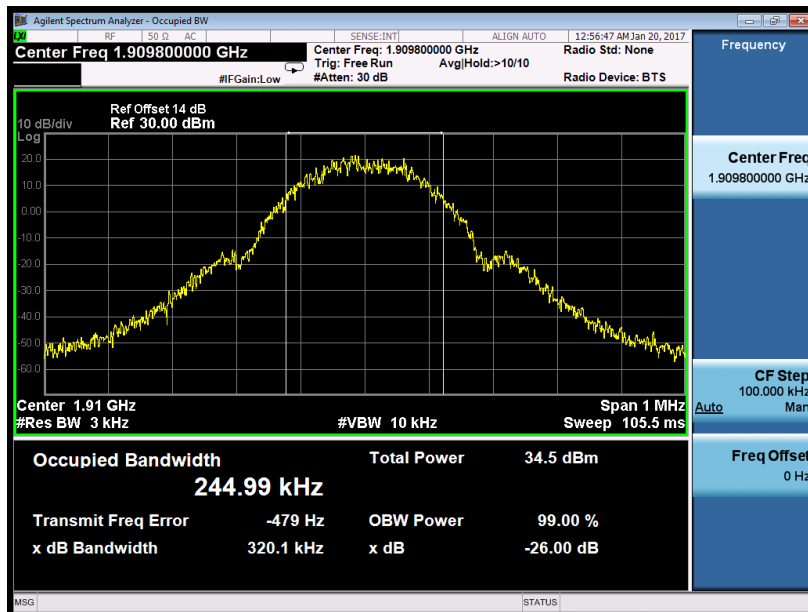
Figure 9: Occupied Bandwidth, TM9

Figure 10: Occupied Bandwidth, TM10


Figure 11: Occupied Bandwidth, TM11

Figure 12: Occupied Bandwidth, TM12


5.1.4 Spurious Emissions at Antenna Terminals

RESULT:**Pass**

Date of testing : 01.20.2017
Test standard : FCC Part 2.1051
FCC Part 22.917 (a)
FCC Part 24.238 (a)
Limit : Less than -13dBm
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : TM1 to TM12
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

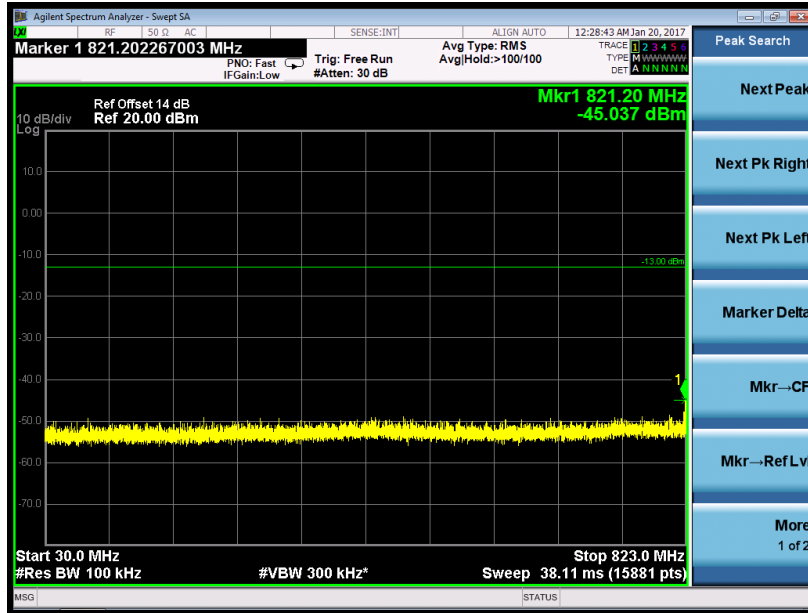
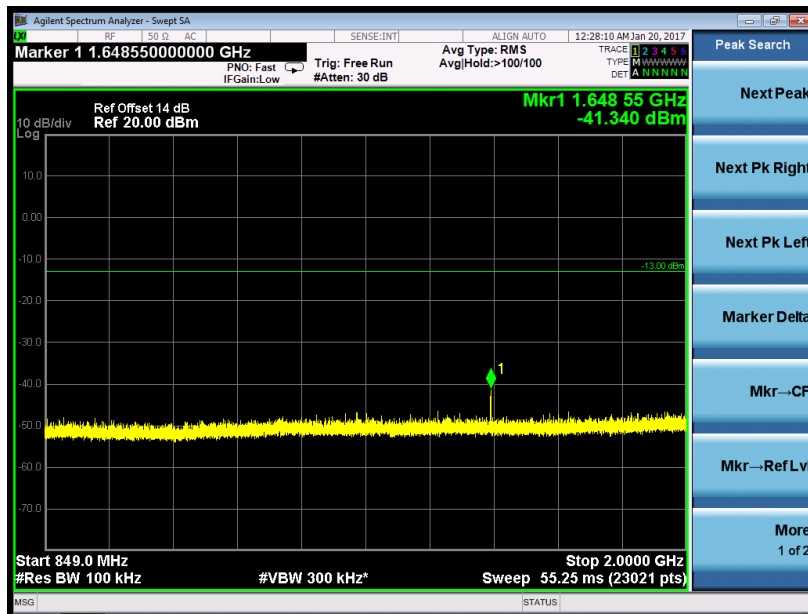
Figure 13: Conducted Spurious Emission, TM 1, part 1

Figure 14: Conducted Spurious Emission, TM 1, part 2


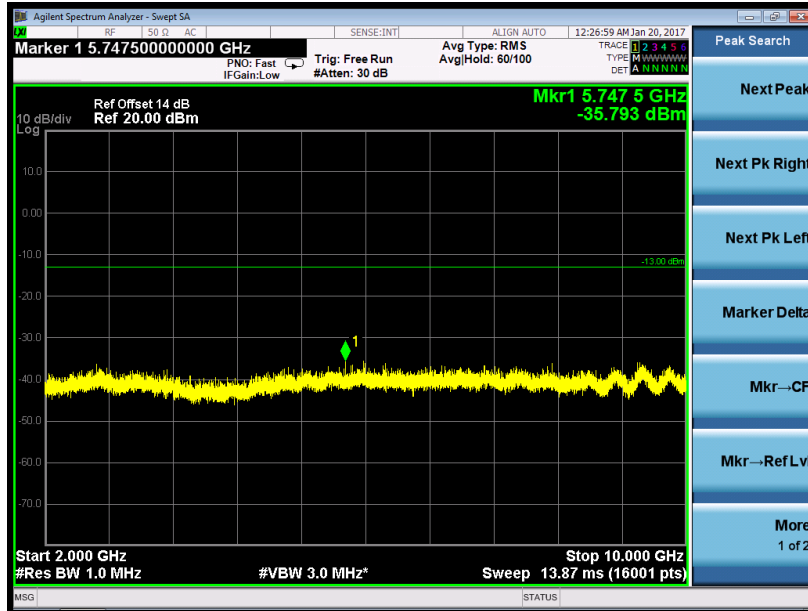
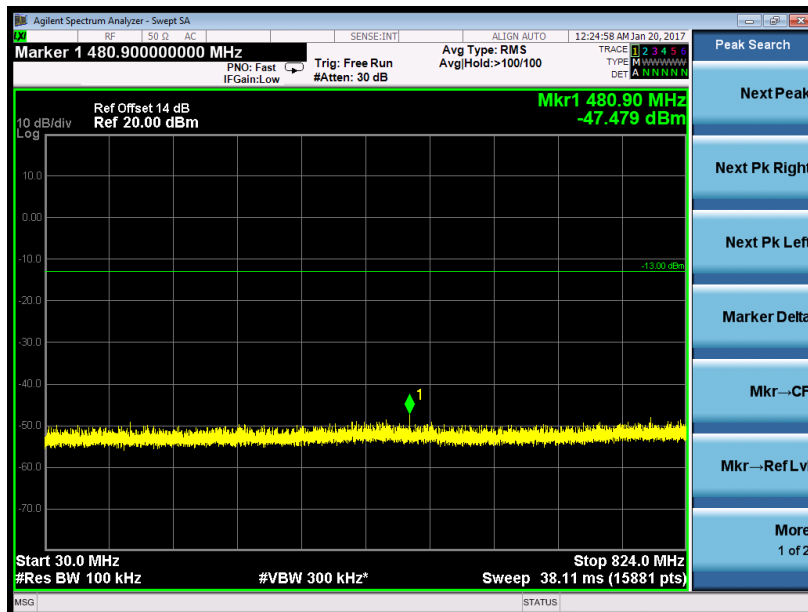
Figure 15: Conducted Spurious Emission, TM 1, part 3

Figure 16: Conducted Spurious Emission, TM 2, part 1


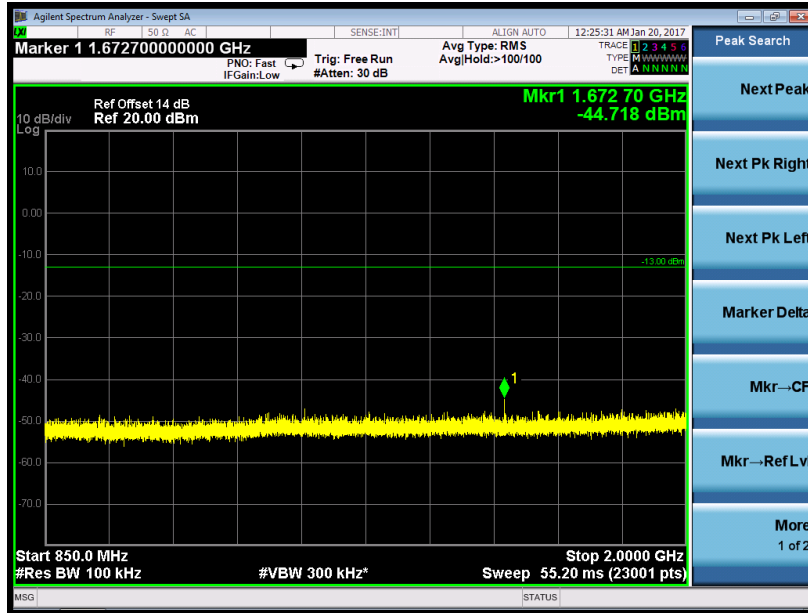
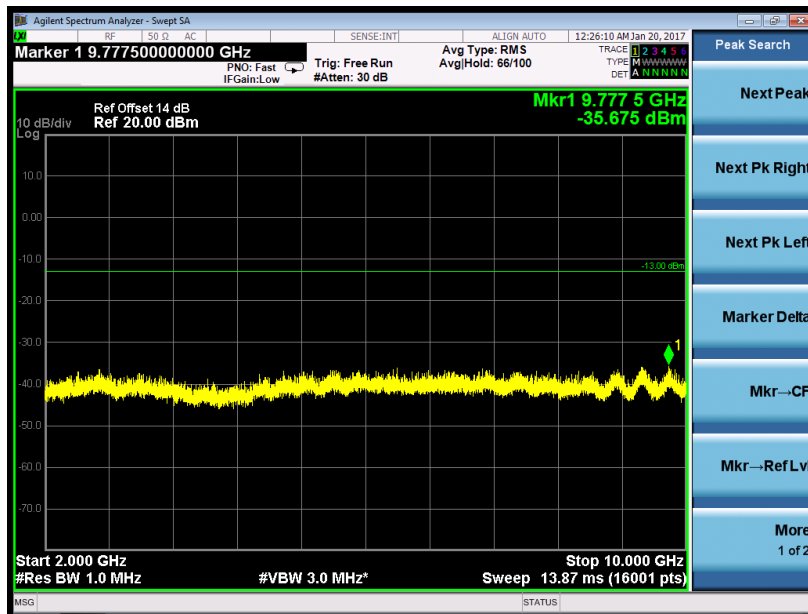
Figure 17: Conducted Spurious Emission, TM 2, part 2

Figure 18: Conducted Spurious Emission, TM 2, part 3


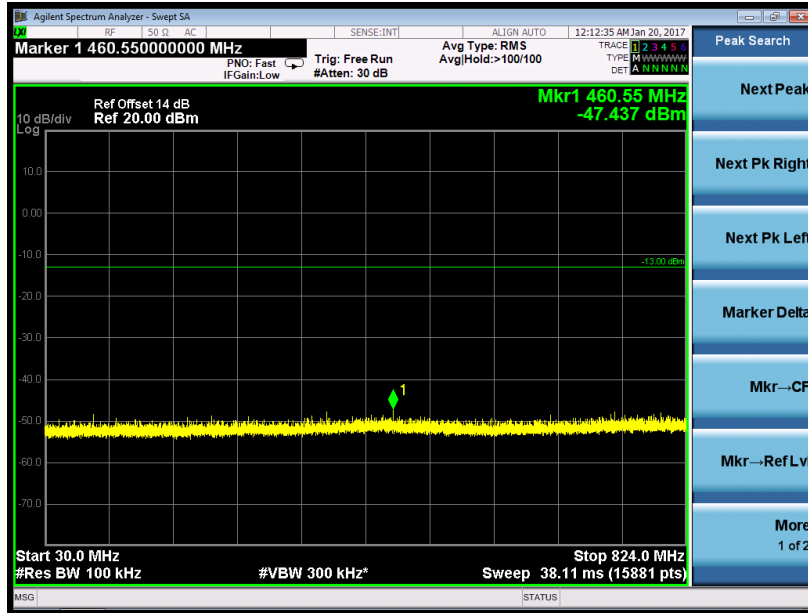
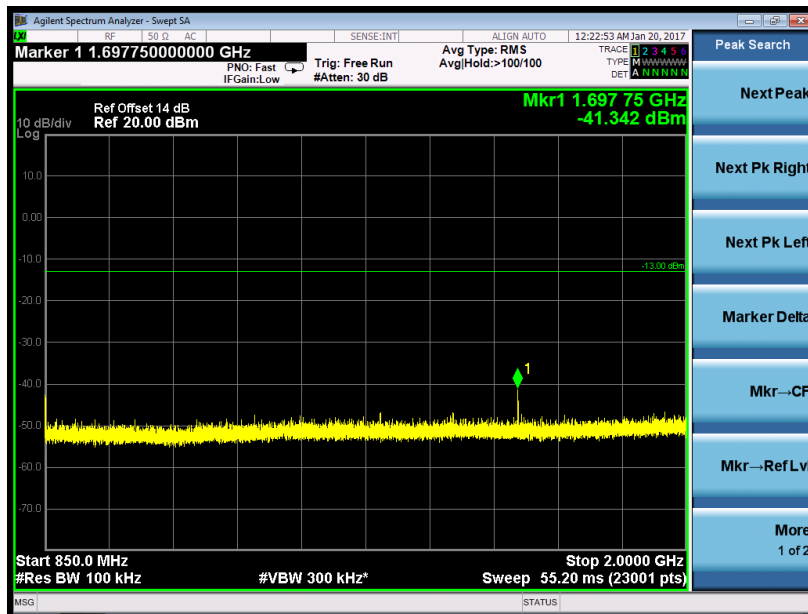
Figure 19: Conducted Spurious Emission, TM 3, part 1

Figure 20: Conducted Spurious Emission, TM 3, part 2


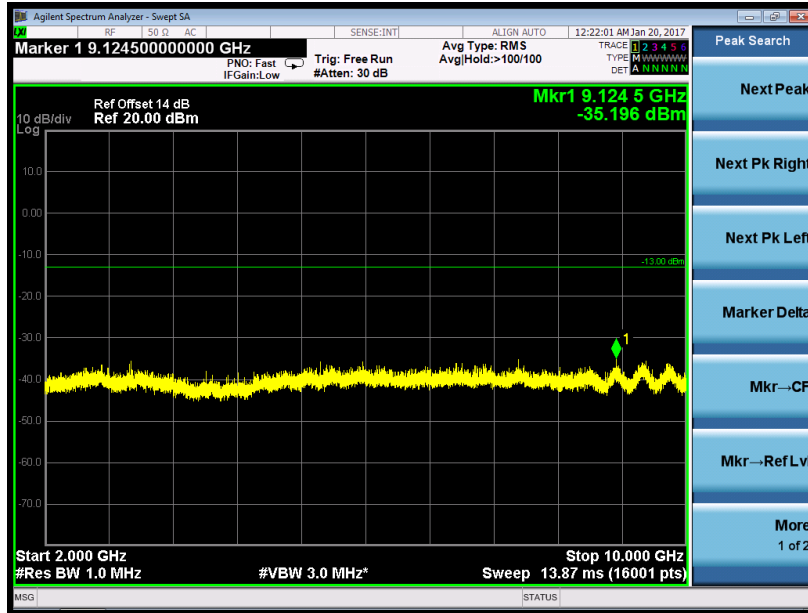
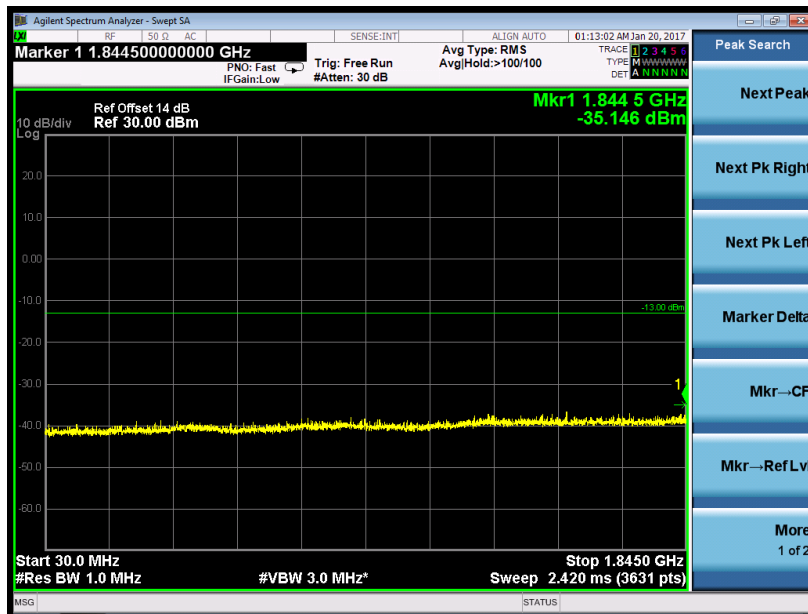
Figure 21: Conducted Spurious Emission, TM 3, part 3

Figure 22: Conducted Spurious Emission, TM 4, part 1


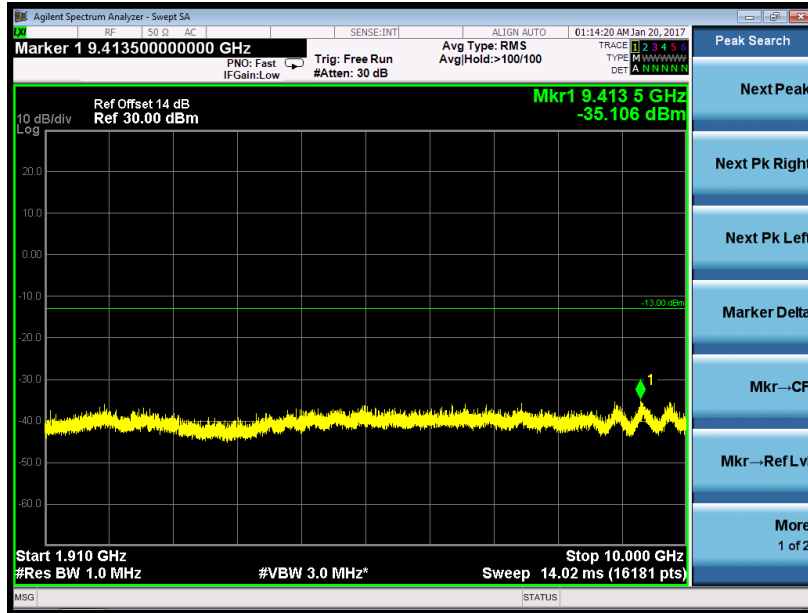
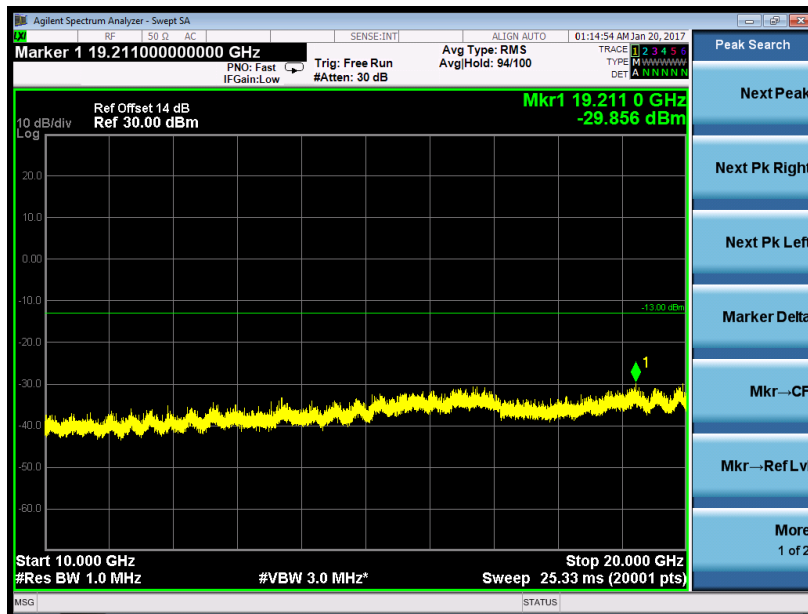
Figure 23: Conducted Spurious Emission, TM 4, part 2

Figure 24: Conducted Spurious Emission, TM 4, part 3


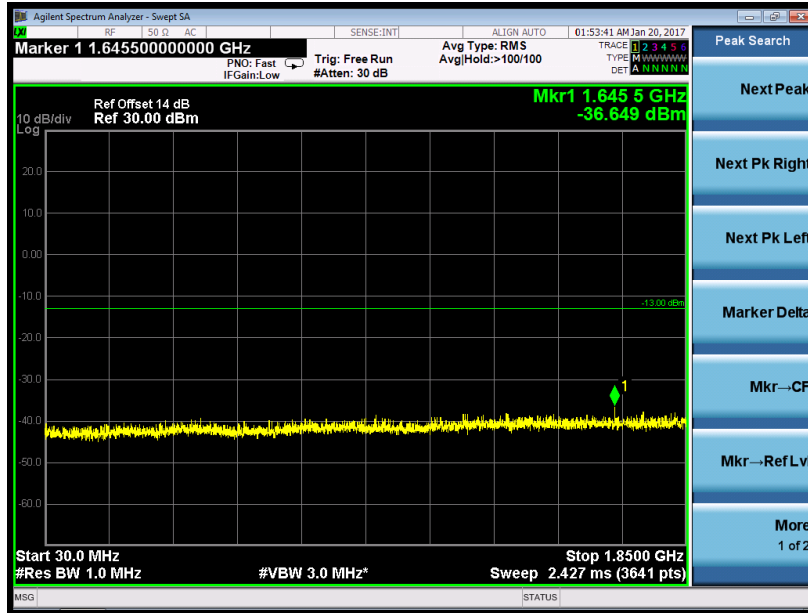
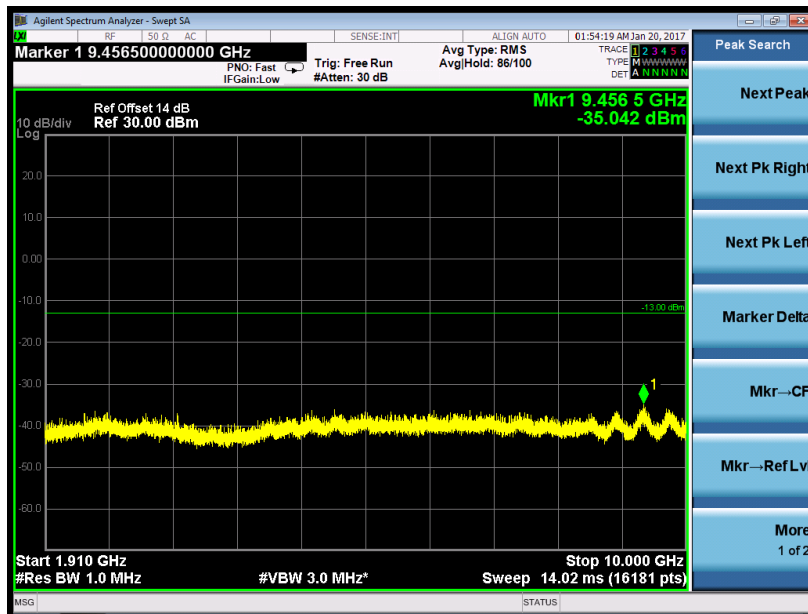
Figure 25: Conducted Spurious Emission, TM 5, part 1

Figure 26: Conducted Spurious Emission, TM 5, part 2


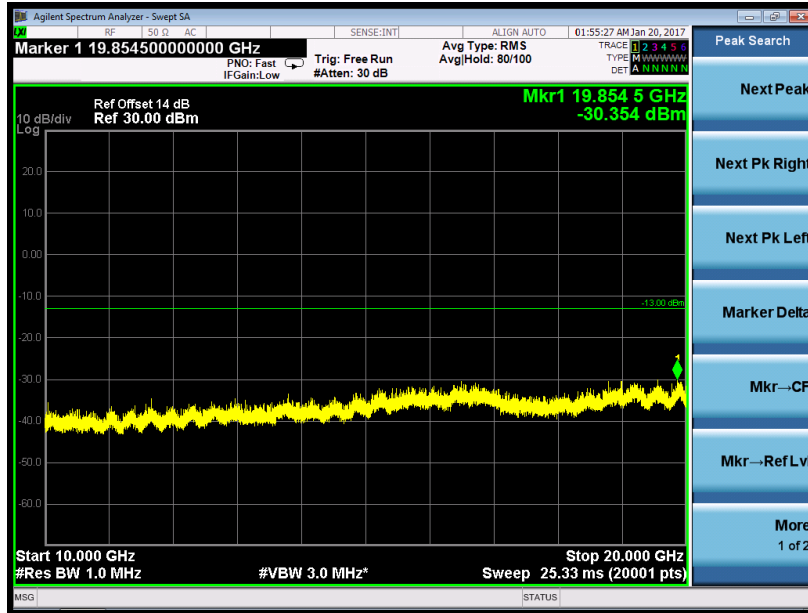
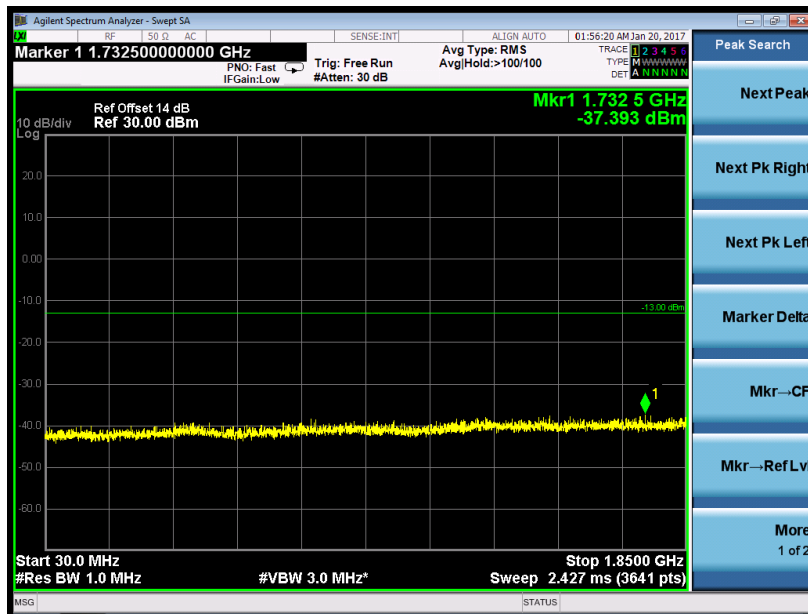
Figure 27: Conducted Spurious Emission, TM 5, part 3

Figure 28: Conducted Spurious Emission, TM 6, part 1


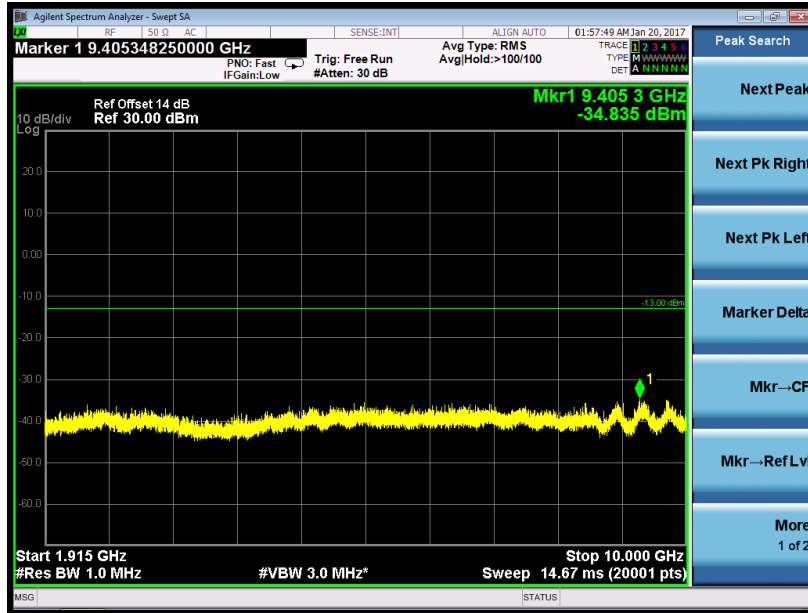
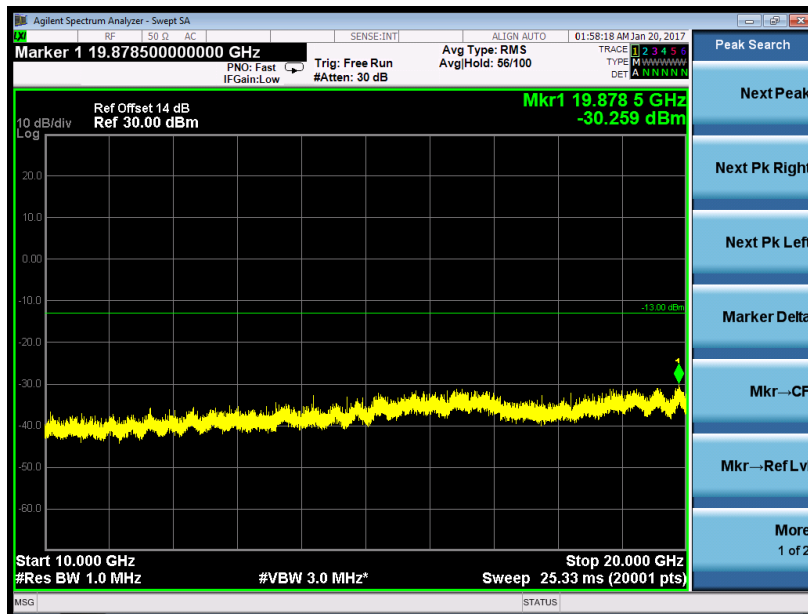
Figure 29: Conducted Spurious Emission, TM 6, part 2

Figure 30: Conducted Spurious Emission, TM 6, part 3


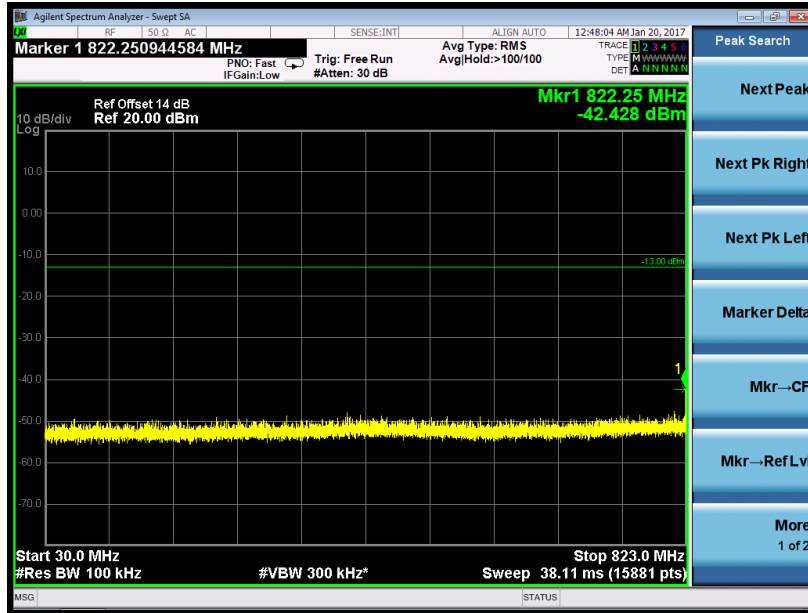
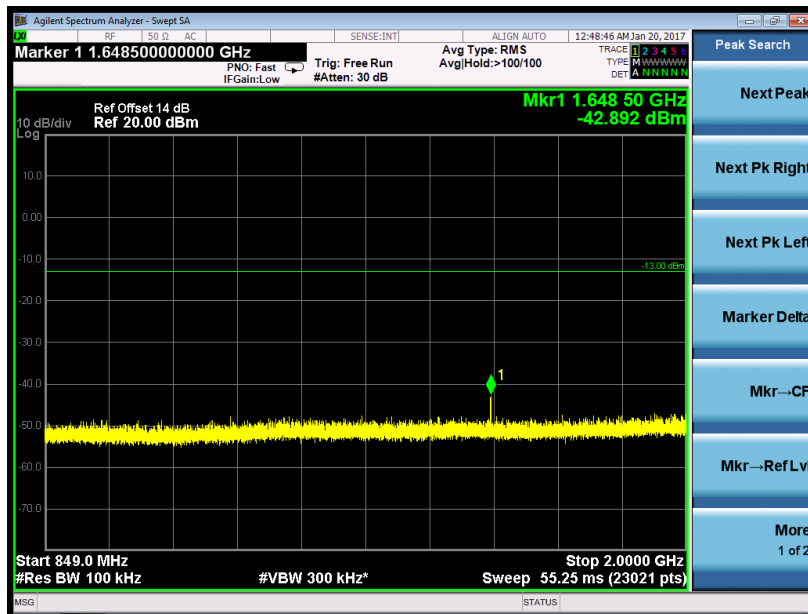
Figure 31: Conducted Spurious Emission, TM 7, part 1

Figure 32: Conducted Spurious Emission, TM 7, part 2


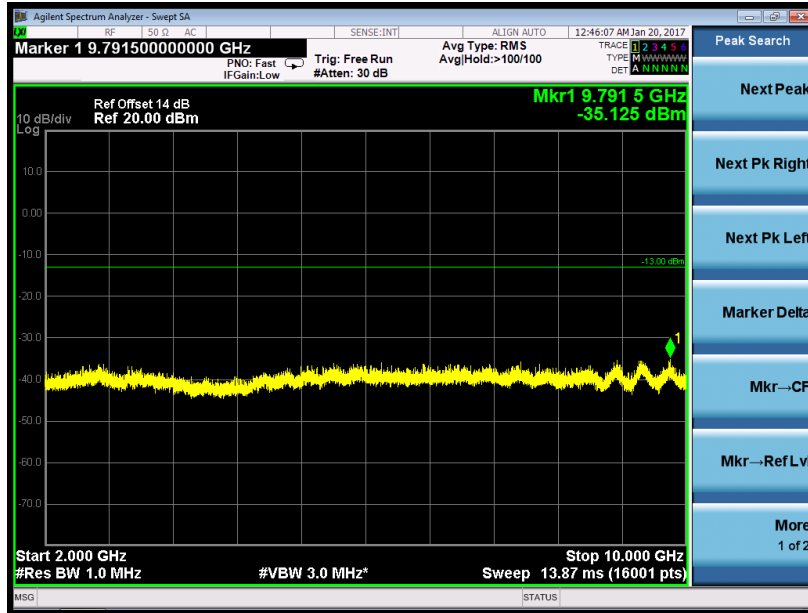
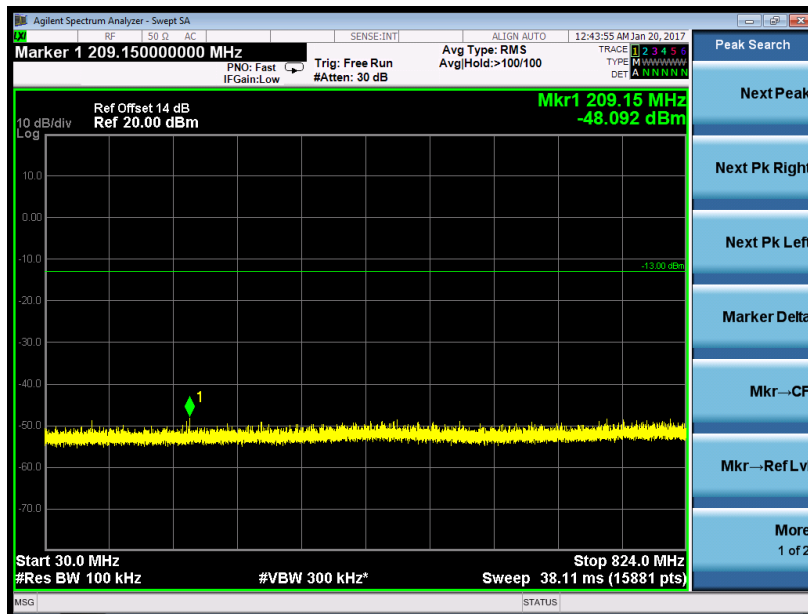
Figure 33: Conducted Spurious Emission, TM 7, part 3

Figure 34: Conducted Spurious Emission, TM 8, part 1


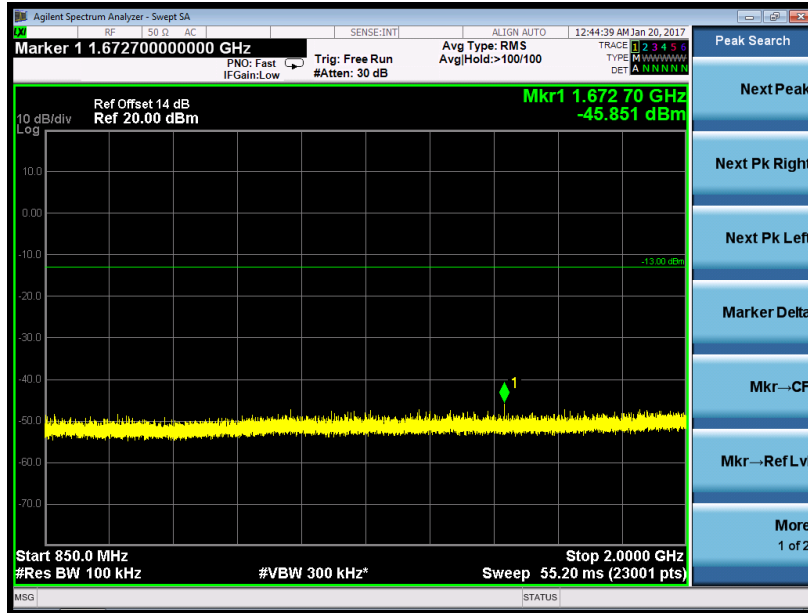
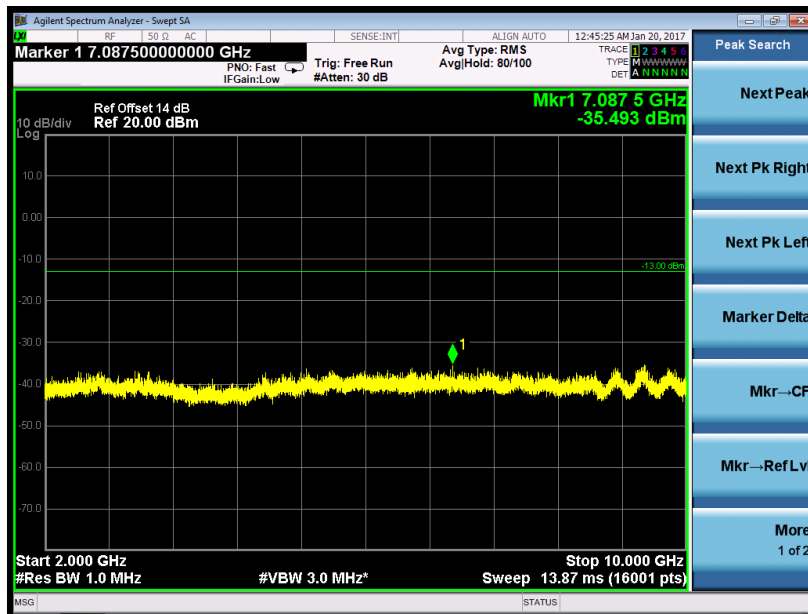
Figure 35: Conducted Spurious Emission, TM 8, part 2

Figure 36: Conducted Spurious Emission, TM 8, part 3


Figure 37: Conducted Spurious Emission, TM 9, part 1

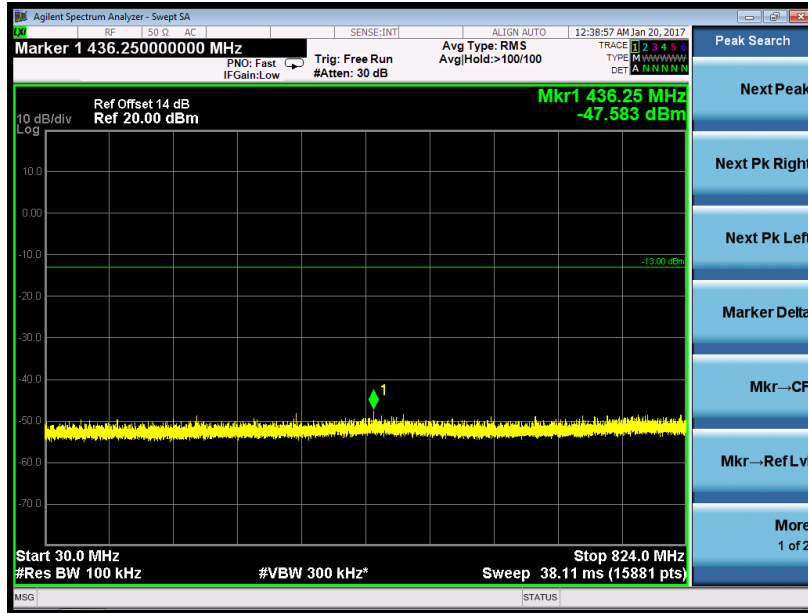


Figure 38: Conducted Spurious Emission, TM 9, part 2

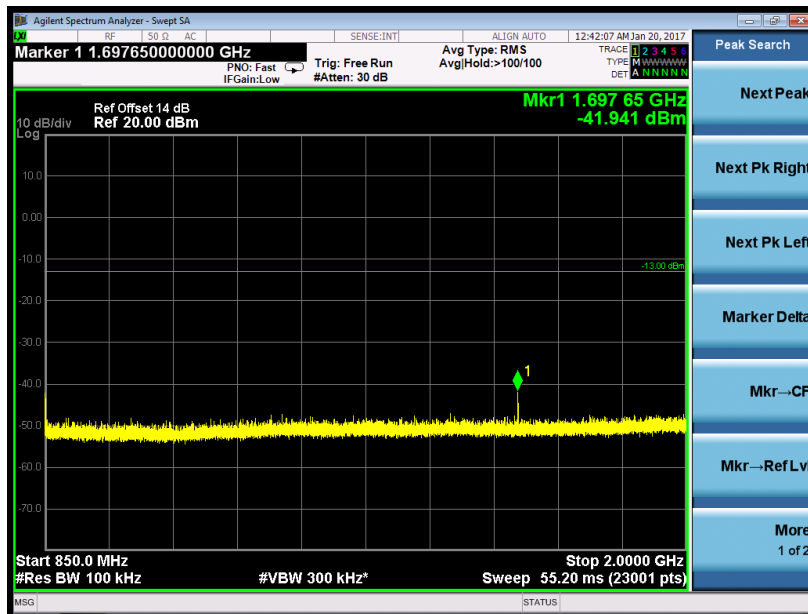


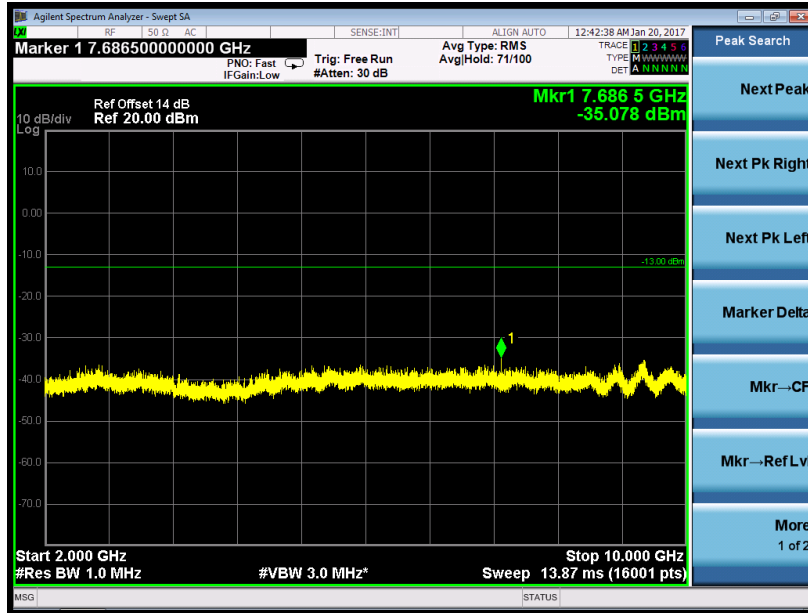
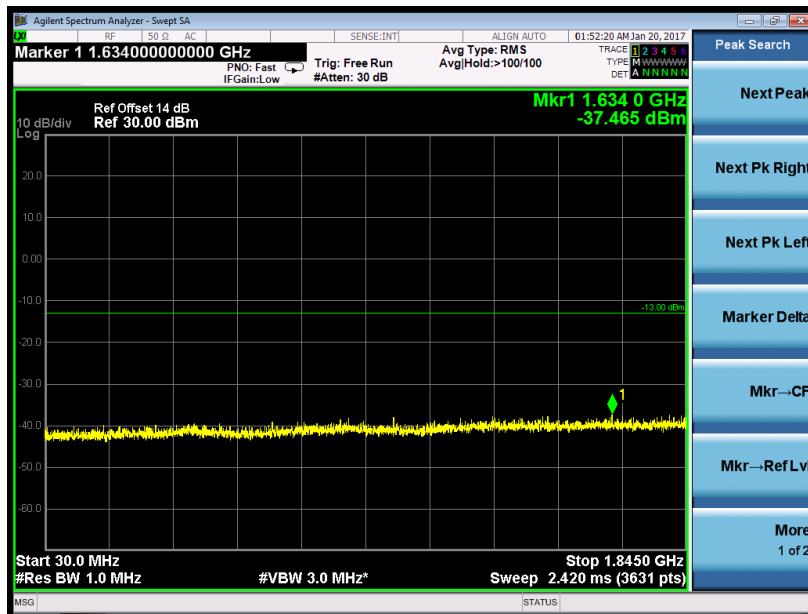
Figure 39: Conducted Spurious Emission, TM 9, part 3

Figure 40: Conducted Spurious Emission, TM 10, part 1


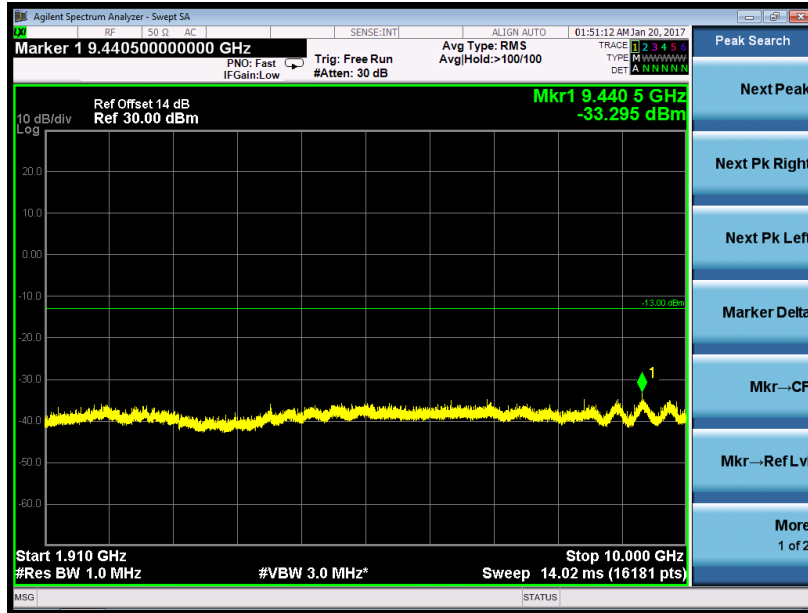
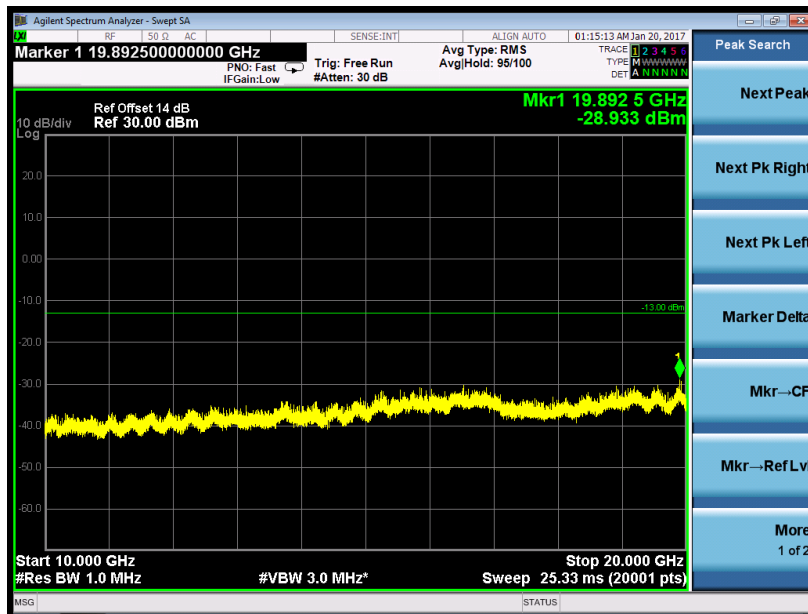
Figure 41: Conducted Spurious Emission, TM 10, part 2

Figure 42: Conducted Spurious Emission, TM 10, part 3


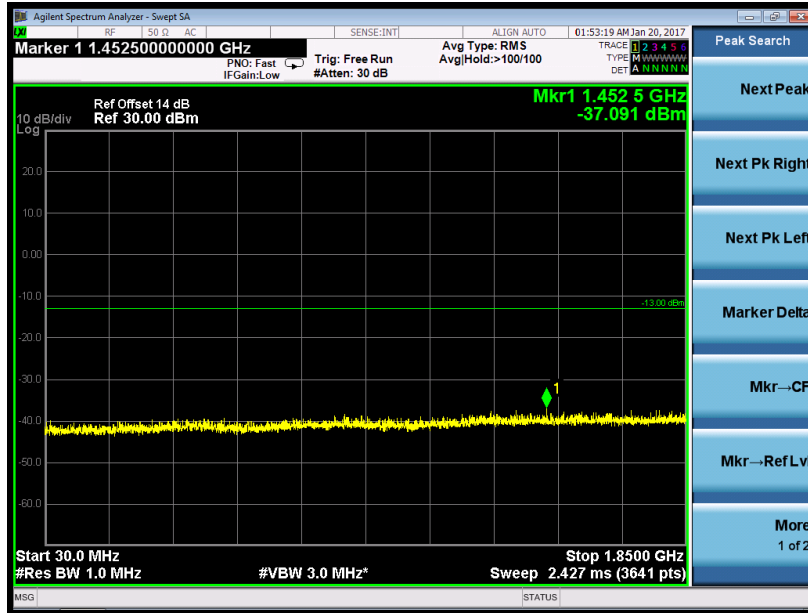
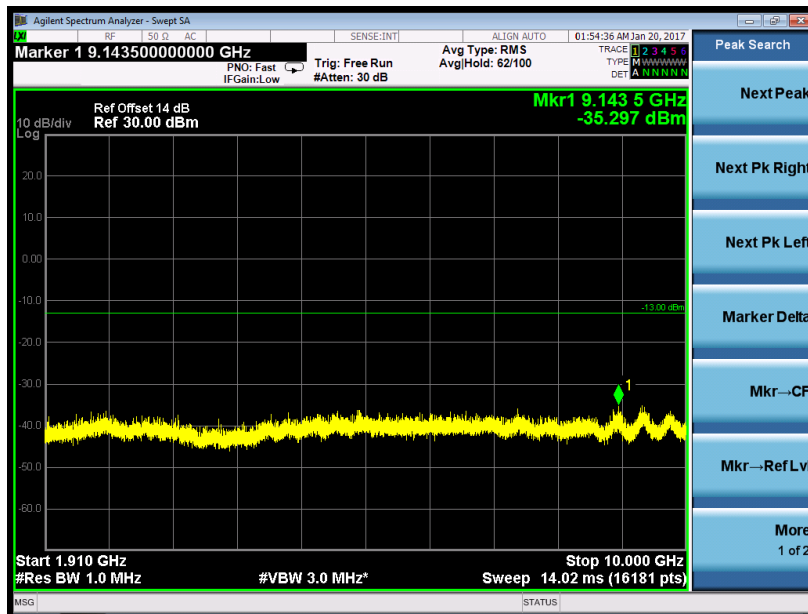
Figure 43: Conducted Spurious Emission, TM 11, part 1

Figure 44: Conducted Spurious Emission, TM 11, part 2


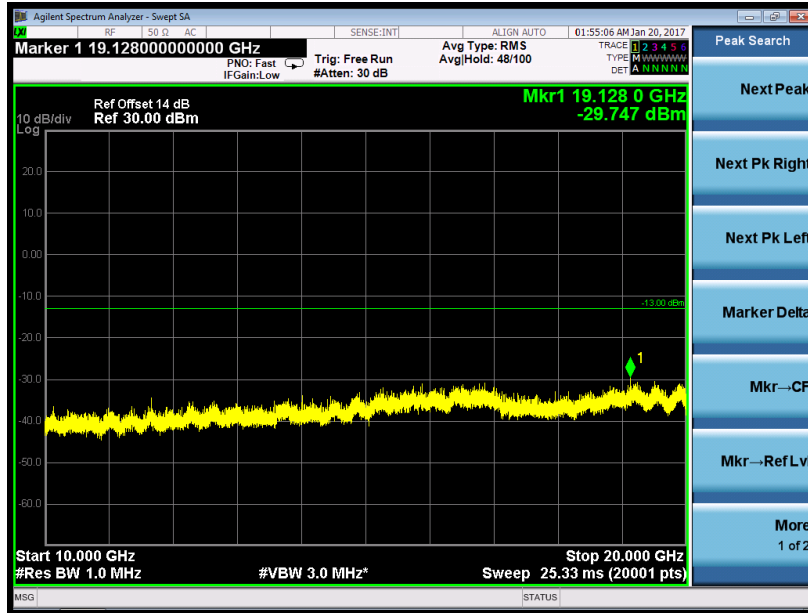
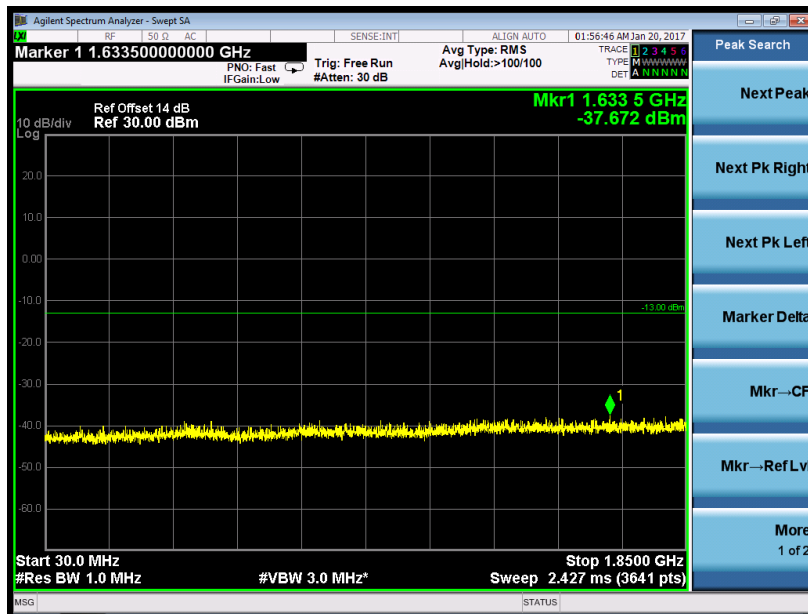
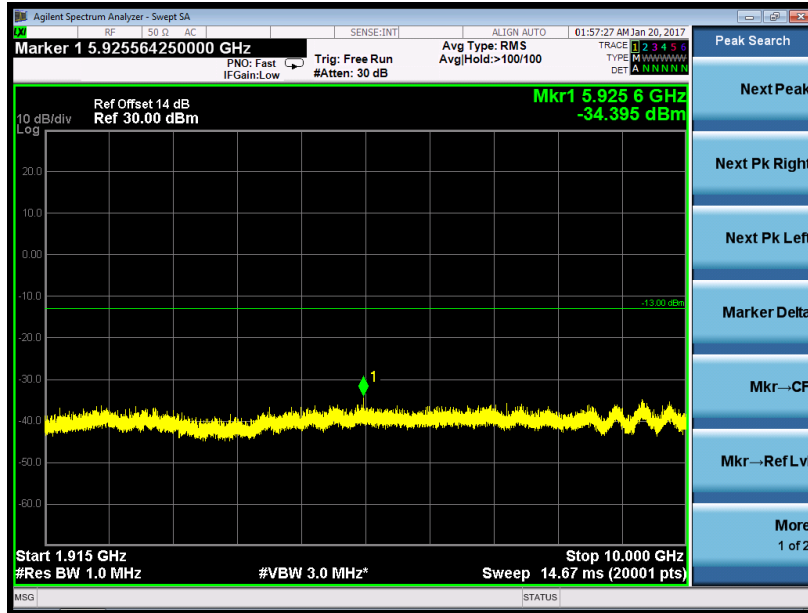
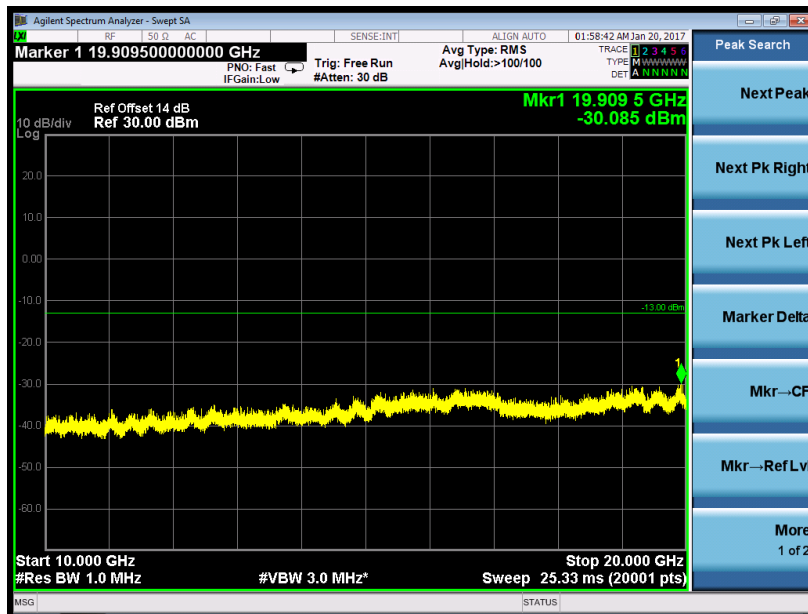
Figure 45: Conducted Spurious Emission, TM 11, part 3

Figure 46: Conducted Spurious Emission, TM 12, part 1


Figure 47: Conducted Spurious Emission, TM 12, part 2

Figure 48: Conducted Spurious Emission, TM 12, part 3


5.1.5 Bandedge Spurious Emission at Antenna Terminals

RESULT:**Pass**

Date of testing : 01.20.2017
Test standard : FCC Part 2.1051
FCC Part 22.917 (a)
FCC Part 24.238 (a)
Limit : Less than -13dBm
Kind of test site : Shielded room

Test setup

Test Channel : Low / High
Operation Mode : TM1,TM3,TM4,TM6,TM7,TM9,TM10,TM12
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Figure 49: Bandedge Spurious Emission at Antenna Terminals, TM1

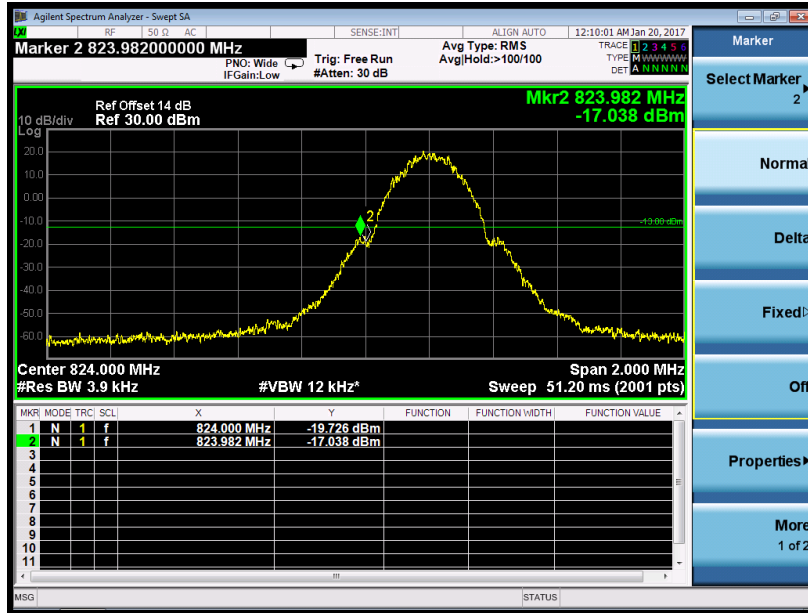


Figure 50: Bandedge Spurious Emission at Antenna Terminals, TM3

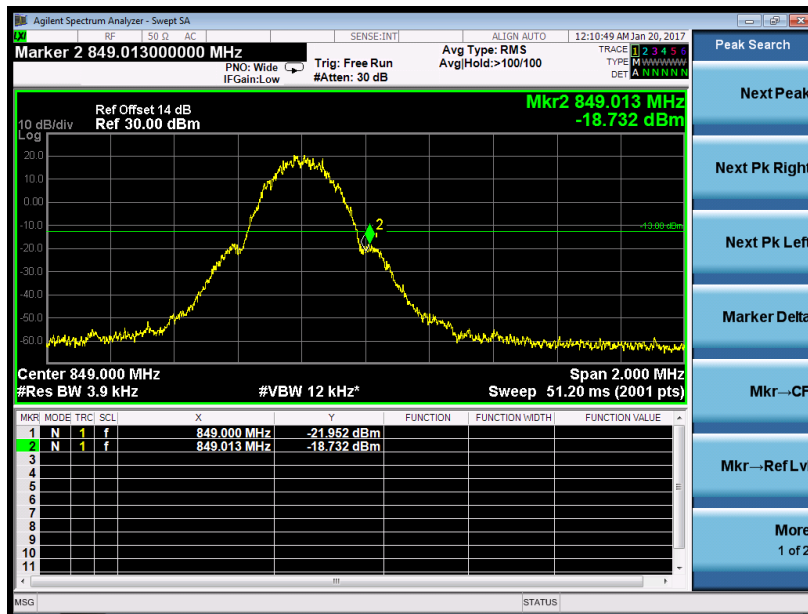


Figure 51: Bandedge Spurious Emission at Antenna Terminals, TM4

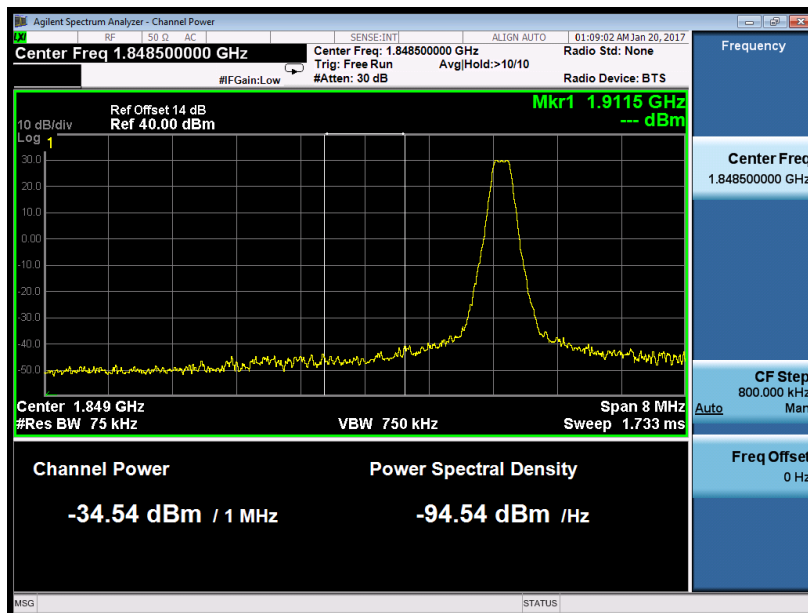
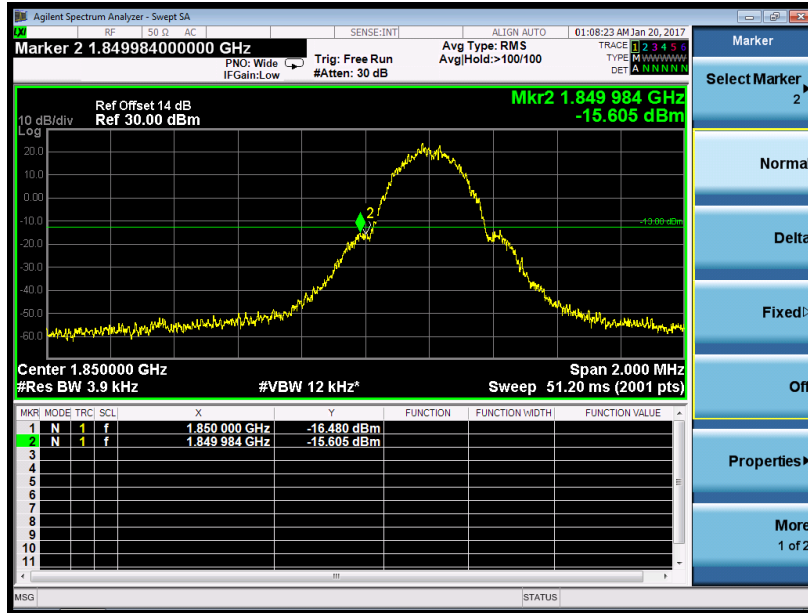


Figure 52: Bandedge Spurious Emission at Antenna Terminals, TM6

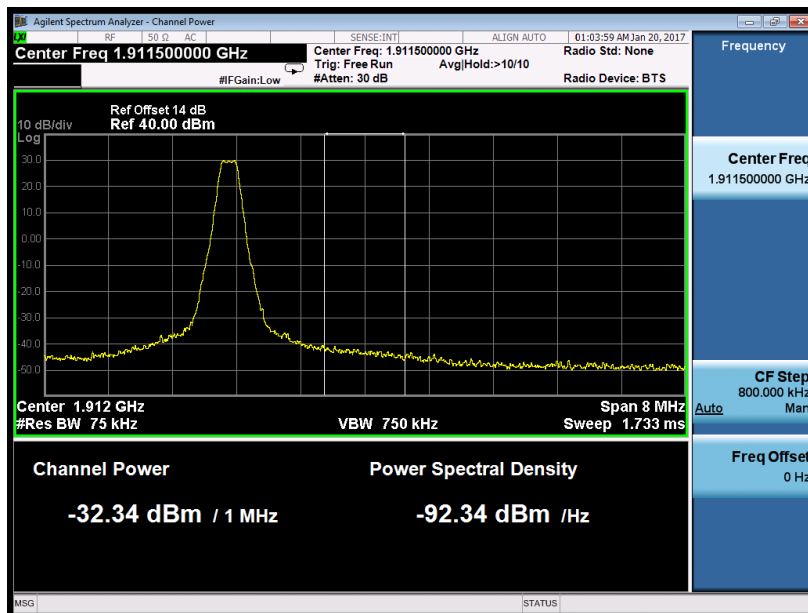
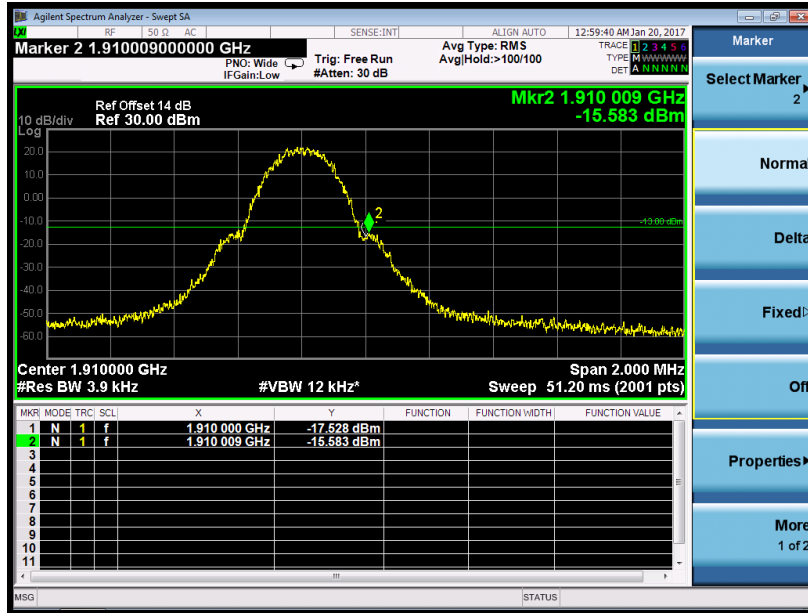


Figure 53: Bandedge Spurious Emission at Antenna Terminals, TM7

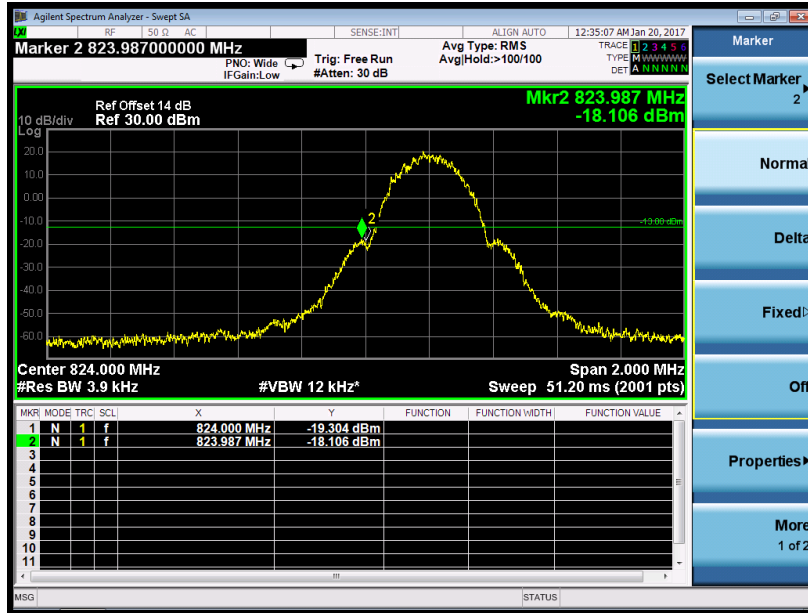


Figure 54: Bandedge Spurious Emission at Antenna Terminals, TM9

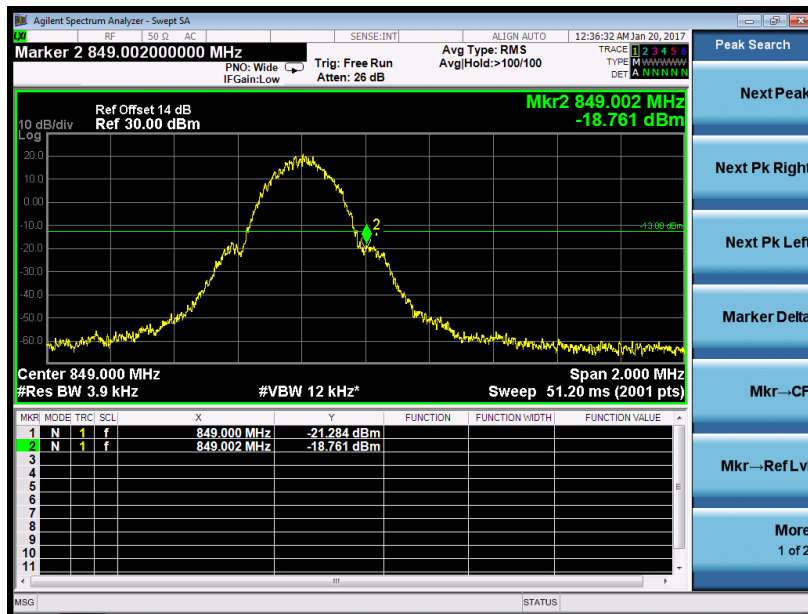


Figure 55: Bandedge Spurious Emission at Antenna Terminals, TM10

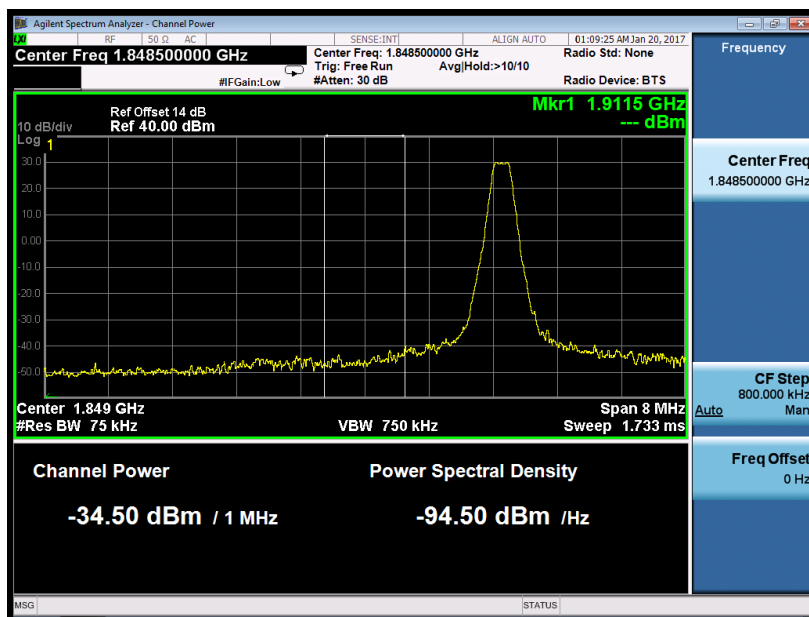
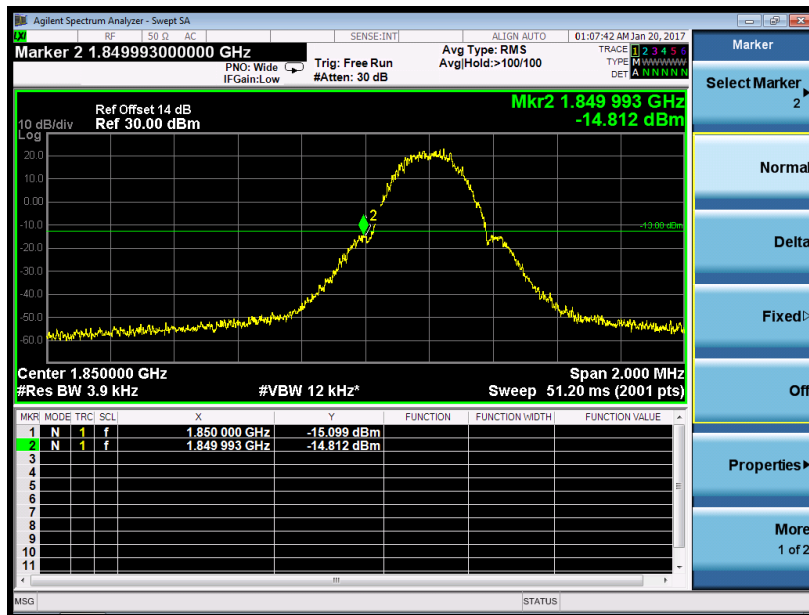
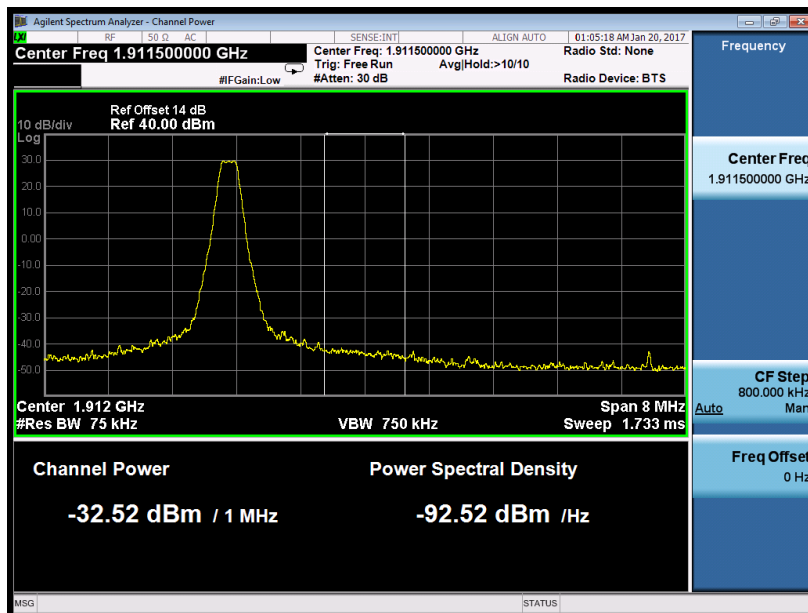
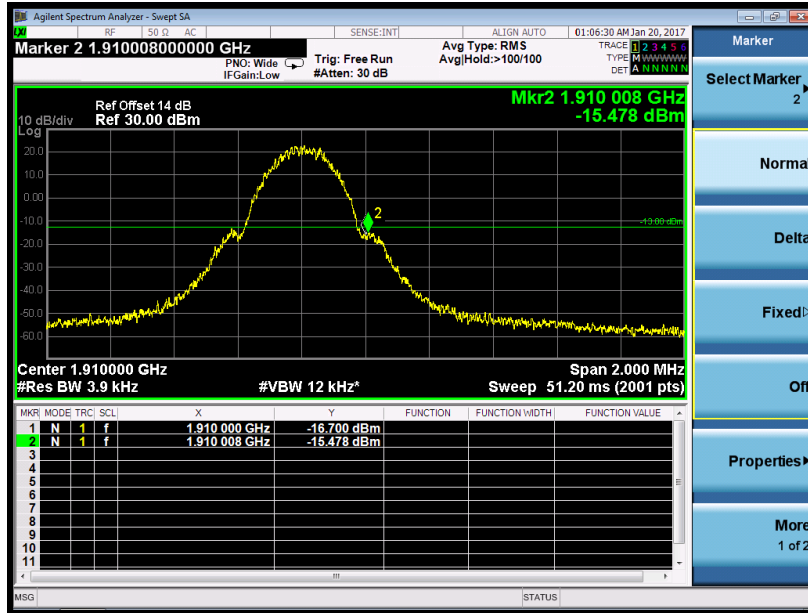


Figure 56: Bandedge Spurious Emission at Antenna Terminals, TM12



Prüfbericht - Nr.: 50070785 001
Test Report No.
Seite 47 von 51
Page 47 of 51

	7638.500	-45.895	1.500	11.456	-35.939	-13	-30.571	H
TM7	2470.500	-56.979	0.812	10.482	-47.309	-13	-23.316	V
	3295.000	-54.682	0.960	12.747	-42.895	-13	-31.627	V
	2470.500	-52.634	0.812	10.482	-42.964	-13	-23.693	H
	3295.000	-58.064	0.960	12.870	-42.154	-13	-29.188	H
TM8	3346.000	-63.653	0.950	12.863	-51.740	-13	-23.693	V
	5020.500	-59.395	1.190	12.671	-47.914	-13	-29.188	V
	1671.500	-60.498	0.667	9.934	-51.231	-13	-23.693	H
	5020.500	-54.117	1.190	12.671	-42.636	-13	-29.188	H
TM9	2547.000	-58.906	0.825	10.680	-49.051	-13	-21.388	V
	3397.000	-54.572	0.955	12.955	-42.572	-13	-34.377	V
	3397.000	-57.542	0.966	12.955	-45.553	-13	-26.088	H
	5097.000	-55.381	1.200	12.752	-43.829	-13	-30.571	H
TM10	7400.500	-47.827	1.425	11.017	-38.235	-13	-23.316	V
	10894.000	-44.542	1.800	11.550	-34.792	-13	-31.627	V
	7400.500	-46.319	1.425	11.017	-36.727	-13	-23.693	H
	10894.000	-43.726	1.800	11.550	-33.976	-13	-29.188	H
TM11	7519.500	-46.138	1.470	11.279	-36.329	-13	-23.693	V
	13750.000	-40.928	2.130	12.215	-30.843	-13	-29.188	V
	7519.500	-45.379	1.470	11.279	-35.570	-13	-23.693	H
	12067.000	-42.653	1.905	13.271	-31.287	-13	-29.188	H
TM12	7638.500	-47.220	1.500	11.456	-37.264	-13	-21.388	V
	12058.500	-42.998	1.913	13.273	-31.638	-13	-34.377	V
	5726.000	-53.130	1.270	13.112	-41.288	-13	-26.088	H
	7638.500	-44.975	1.500	11.456	-35.019	-13	-30.571	H

Note:

1. Spurious emissions below 30MHz and within 30-1000MHz were found more than 20dB below limit line.
2. $ERP \text{ (dBm)} = SG \text{ Reading (dBm)} - \text{Cable Loss (dB)} + \text{Substitute Antenna Gain (dBd)}$

5.1.7 Frequency Stability

RESULT:
Pass

Date of testing : 01.20.2017
 Test standard : FCC Part2.1055
 FCC Part 22.355
 FCC Part 24.235
 Limit : $\pm 2.5\text{ppm}$ for FCC Part 22.355
 Within assigned bands for FCC Part 24.235
 Kind of test site : Shielded room

Test setup

Test Channel : Middle
 Operation Mode : TM2, TM5, TM8, TM11
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

Table 9: Frequency Stability, TM2

Voltage [%]	Power [VDC]	TEMP [%]	Frequency [Hz]	Freq. Dev [Hz]	Deviation [%]
100%	3.7	+20(Ref)	836,400,000	75	0.00000897
		-30	836,400,000	68	0.00000813
		-20	836,400,000	-71	0.00000849
		-10	836,400,000	65	0.00000777
		0	836,400,000	68	0.00000813
		+10	836,400,000	64	0.00000765
		+20	836,400,000	-69	0.00000825
		+30	836,400,000	-72	0.00000861
		+40	836,400,000	-59	0.00000705
		+50	836,400,000	62	0.00000741
115%	4.2	+20	836,400,000	-63	0.00000753
BAT.ENDPOINT	3.6	+20	836,400,000	-62	0.00000741

Table 10: Frequency Stability, TM5

Voltage [%]	Power [VDC]	TEMP [%]	Frequency [Hz]	Freq. Dev [Hz]	Deviation [%]
100%	3.7	+20(Ref)	1,880,000,000	42	0.00000223
		-30	1,880,000,000	-43	0.00000229
		-20	1,880,000,000	52	0.00000277
		-10	1,880,000,000	43	0.00000229
		0	1,880,000,000	-41	0.00000218
		+10	1,880,000,000	49	0.00000261
		+20	1,880,000,000	-39	0.00000207
		+30	1,880,000,000	42	0.00000223
		+40	1,880,000,000	-52	0.00000277
		+50	1,880,000,000	39	0.00000207
115%	4.2	+20	1,880,000,000	48	0.00000255
BAT.ENDPOINT	3.6	+20	1,880,000,000	-42	0.00000223

Table 11: Frequency Stability, TM8

Voltage [%]	Power [VDC]	TEMP [%]	Frequency [Hz]	Freq. Dev [Hz]	Deviation [%]
100%	3.7	+20(Ref)	836,400,000	66	0.00000789
		-30	836,400,000	71	0.00000849
		-20	836,400,000	-54	0.00000646
		-10	836,400,000	76	0.00000909
		0	836,400,000	-68	0.00000813
		+10	836,400,000	72	0.00000861
		+20	836,400,000	45	0.00000538
		+30	836,400,000	39	0.00000466
		+40	836,400,000	-57	0.00000681
		+50	836,400,000	-68	0.00000813
115%	4.2	+20	836,400,000	62	0.00000741
BAT.ENDPOINT	3.6	+20	836,400,000	-56	0.00000670

Table 12: Frequency Stability, TM11

Voltage [%]	Power [VDC]	TEMP [%]	Frequency [Hz]	Freq. Dev [Hz]	Deviation [%]
100%	3.7	+20(Ref)	1,880,000,000	26	0.00000138
		-30	1,880,000,000	68	0.00000362
		-20	1,880,000,000	73	0.00000388
		-10	1,880,000,000	-41	0.00000218
		0	1,880,000,000	-64	0.00000340
		+10	1,880,000,000	69	0.00000367
		+20	1,880,000,000	35	0.00000186
		+30	1,880,000,000	-63	0.00000335
		+40	1,880,000,000	-54	0.00000287
		+50	1,880,000,000	53	0.00000282
115%	4.2	+20	1,880,000,000	69	0.00000367
BAT.ENDPOINT	3.6	+20	1,880,000,000	-61	0.00000324

6. List of Tables

Table 1: List of Test and Measurement Equipment	5
Table 2: Measurement Uncertainty	6
Table 3: Technical Specification of EUT	7
Table 4: RF Channel and Frequency	8
Table 5: Radiated Power	11
Table 6: Peak Average Radio	12
Table 7: Occupied Bandwidth	13
Table 8: Radiated Spurious Emission	46
Table 9: Frequency Stability, TM2	48
Table 10: Frequency Stability, TM5	49
Table 11: Frequency Stability, TM8	49
Table 12: Frequency Stability, TM11	49

7. List of Figures

Figure 1: Occupied Bandwidth, TM1	14
Figure 2: Occupied Bandwidth, TM2	14
Figure 3: Occupied Bandwidth, TM3	15
Figure 4: Occupied Bandwidth, TM4	15
Figure 5: Occupied Bandwidth, TM5	16
Figure 6: Occupied Bandwidth, TM6	16
Figure 7: Occupied Bandwidth, TM7	17
Figure 8: Occupied Bandwidth, TM8	17
Figure 9: Occupied Bandwidth, TM9	18
Figure 10: Occupied Bandwidth, TM10	18
Figure 11: Occupied Bandwidth, TM11	19
Figure 12: Occupied Bandwidth, TM12	19
Figure 13: Conducted Spurious Emission, TM 1, part 1	21
Figure 14: Conducted Spurious Emission, TM 1, part 2	21
Figure 15: Conducted Spurious Emission, TM 1, part 3	22
Figure 16: Conducted Spurious Emission, TM 2, part 1	22
Figure 17: Conducted Spurious Emission, TM 2, part 2	23
Figure 18: Conducted Spurious Emission, TM 2, part 3	23
Figure 19: Conducted Spurious Emission, TM 3, part 1	24
Figure 20: Conducted Spurious Emission, TM 3, part 2	24
Figure 21: Conducted Spurious Emission, TM 3, part 3	25
Figure 22: Conducted Spurious Emission, TM 4, part 1	25
Figure 23: Conducted Spurious Emission, TM 4, part 2	26
Figure 24: Conducted Spurious Emission, TM 4, part 3	26
Figure 25: Conducted Spurious Emission, TM 5, part 1	27
Figure 26: Conducted Spurious Emission, TM 5, part 2	27
Figure 27: Conducted Spurious Emission, TM 5, part 3	28
Figure 28: Conducted Spurious Emission, TM 6, part 1	28
Figure 29: Conducted Spurious Emission, TM 6, part 2	29
Figure 30: Conducted Spurious Emission, TM 6, part 3	29

Prüfbericht - Nr.: 50070785 001

Test Report No.

Seite 51 von 51

Page 51 of 51

Figure 31: Conducted Spurious Emission, TM 7, part 1	30
Figure 32: Conducted Spurious Emission, TM 7, part 2	30
Figure 33: Conducted Spurious Emission, TM 7, part 3	31
Figure 34: Conducted Spurious Emission, TM 8, part 1	31
Figure 35: Conducted Spurious Emission, TM 8, part 2	32
Figure 36: Conducted Spurious Emission, TM 8, part 3	32
Figure 37: Conducted Spurious Emission, TM 9, part 1	33
Figure 38: Conducted Spurious Emission, TM 9, part 2	33
Figure 39: Conducted Spurious Emission, TM 9, part 3	34
Figure 40: Conducted Spurious Emission, TM 10, part 1	34
Figure 41: Conducted Spurious Emission, TM 10, part 2	35
Figure 42: Conducted Spurious Emission, TM 10, part 3	35
Figure 43: Conducted Spurious Emission, TM 11, part 1	36
Figure 44: Conducted Spurious Emission, TM 11, part 2	36
Figure 45: Conducted Spurious Emission, TM 11, part 3	37
Figure 46: Conducted Spurious Emission, TM 12, part 1	37
Figure 47: Conducted Spurious Emission, TM 12, part 2	38
Figure 48: Conducted Spurious Emission, TM 12, part 3	38
Figure 49: Bandedge Spurious Emission at Antenna Terminals, TM1	40
Figure 50: Bandedge Spurious Emission at Antenna Terminals, TM3	40
Figure 51: Bandedge Spurious Emission at Antenna Terminals, TM4	41
Figure 52: Bandedge Spurious Emission at Antenna Terminals, TM6	42
Figure 53: Bandedge Spurious Emission at Antenna Terminals, TM7	43
Figure 54: Bandedge Spurious Emission at Antenna Terminals, TM9	43
Figure 55: Bandedge Spurious Emission at Antenna Terminals, TM10	44
Figure 56: Bandedge Spurious Emission at Antenna Terminals, TM12	45