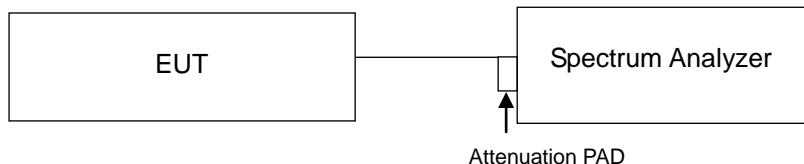


4.6 Peak to Average Ratio

4.6.1 Limits of Peak to Average Ratio Measurement

In measuring transmissions in this band using an average power technique, the peak to-average ratio (PAR) of the transmission may not exceed 13 dB

4.6.2 Test Setup



4.6.3 Test Procedures

- a. Set resolution/measurement bandwidth \geq signal's occupied bandwidth;
- b. Set the number of counts to a value that stabilizes the measured CCDF curve;
- c. Record the maximum PAPR level associated with a probability of 0.1%.

4.6.4 Test Results

LTE SC MODE

Channel	Freq. (MHz)	Peak to Average Ratio (dB)		Limit(dB)	Pass /Fail		
		10MHz					
		Chain0	Chain1				
		QPSK	QPSK				
Low	3555	8.73	8.74	13	Pass		
Middle	3625	8.72	8.74	13	Pass		
High	3695	8.76	8.74	13	Pass		

Channel	Freq. (MHz)	Peak to Average Ratio (dB)		Limit(dB)	Pass /Fail		
		15MHz					
		Chain0	Chain1				
		QPSK	QPSK				
Low	3557.5	9.02	8.97	13	Pass		
Middle	3625	8.97	8.74	13	Pass		
High	3692.5	9.00	8.82	13	Pass		

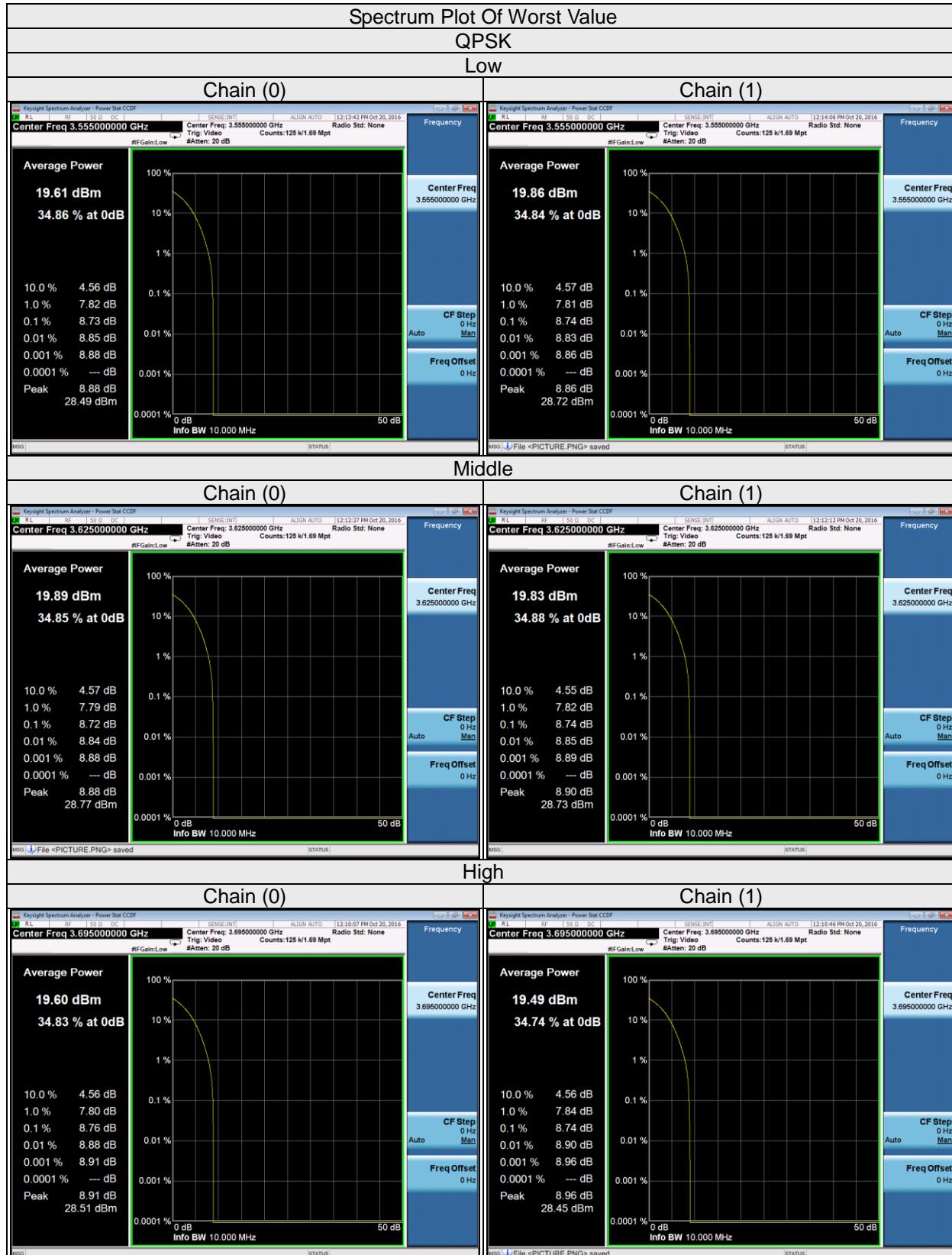
Channel	Freq. (MHz)	Peak to Average Ratio (dB)		Limit(dB)	Pass /Fail		
		20MHz					
		Chain0	Chain1				
		QPSK	QPSK				
Low	3560	8.77	8.76	13	Pass		
Middle	3625	8.80	8.82	13	Pass		
High	3690	8.80	8.82	13	Pass		

LTE MC MODE

Channel	Freq. (MHz)	Low_Peak to Average Ratio (dB)		High_Peak to Average Ratio (dB)		Limit(dB)	PASS /FAIL		
		2-Carriers (20MHz+20MHz)							
		Chain0	Chain1	Chain0	Chain1				
		QPSK	QPSK	QPSK	QPSK				
Low	3560+3580	8.77	8.75	8.76	8.77	13	PASS		
Middle	3615+3635	8.80	8.80	8.79	8.81	13	PASS		
High	3670+3690	8.82	8.79	8.80	8.82	13	PASS		

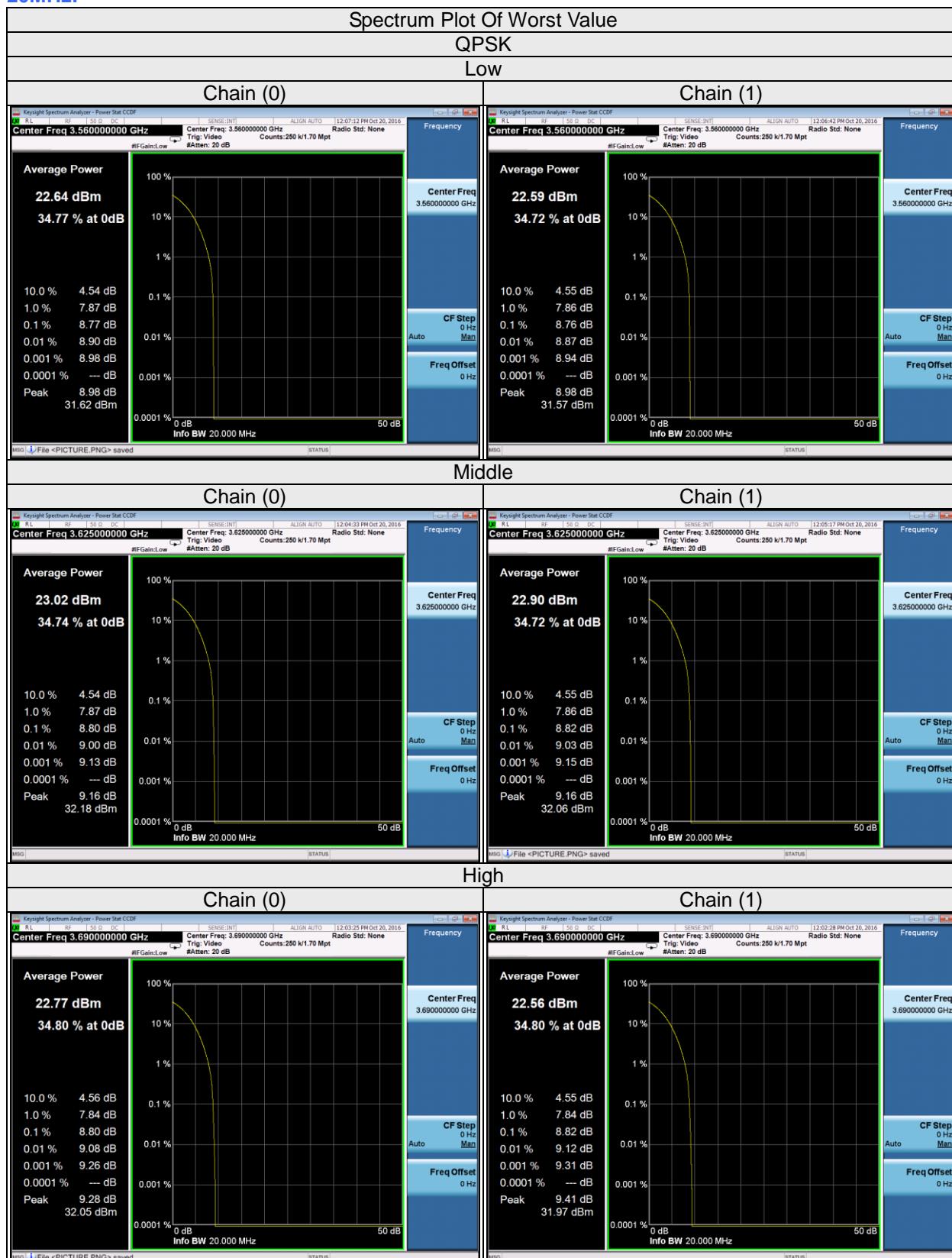
LTE SC MODE

10MHz:



15MHz:



20MHz:


LTE MC MODE

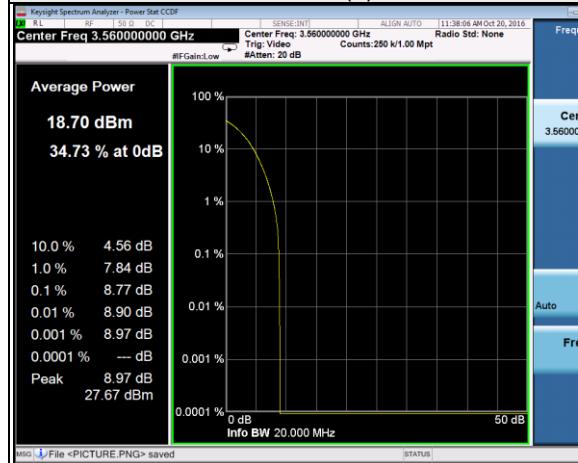
2-Carriers (20MHz+20MHz):

Spectrum Plot Of Worst Value

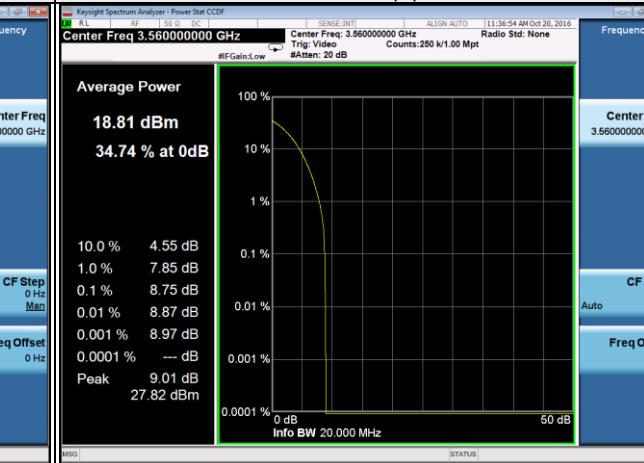
QPSK

Low

Chain (0)

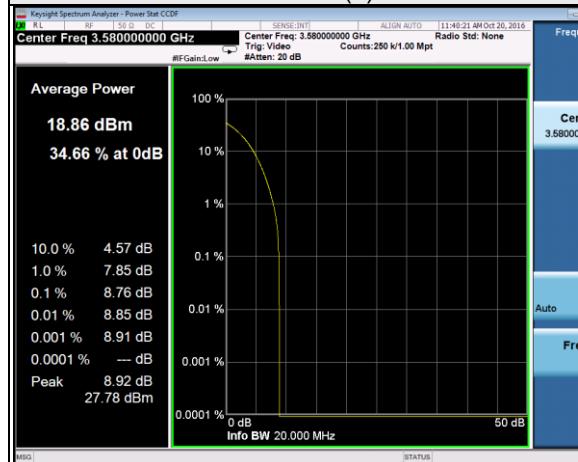


Chain (1)

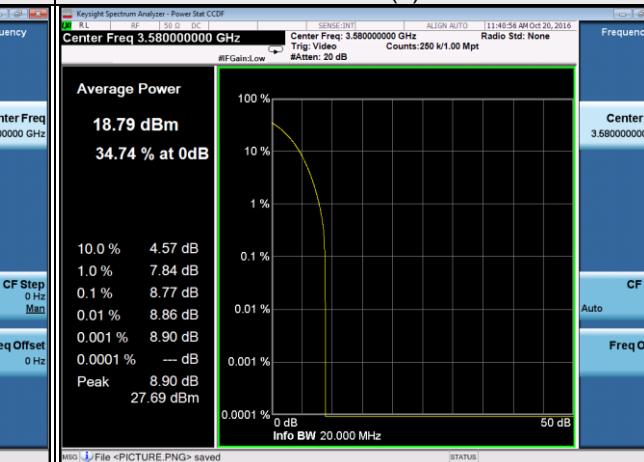


Middle

Chain (0)



Chain (1)

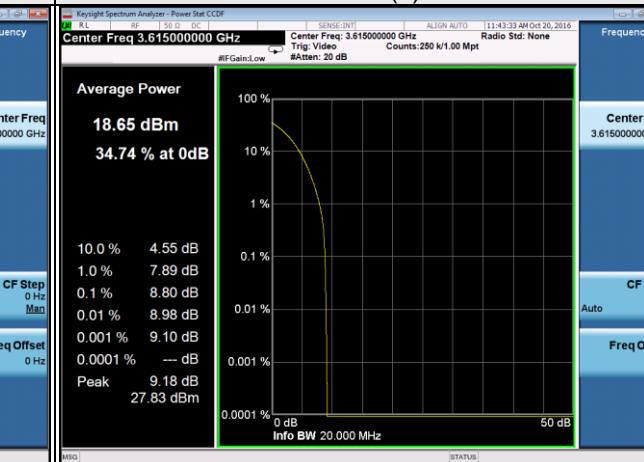


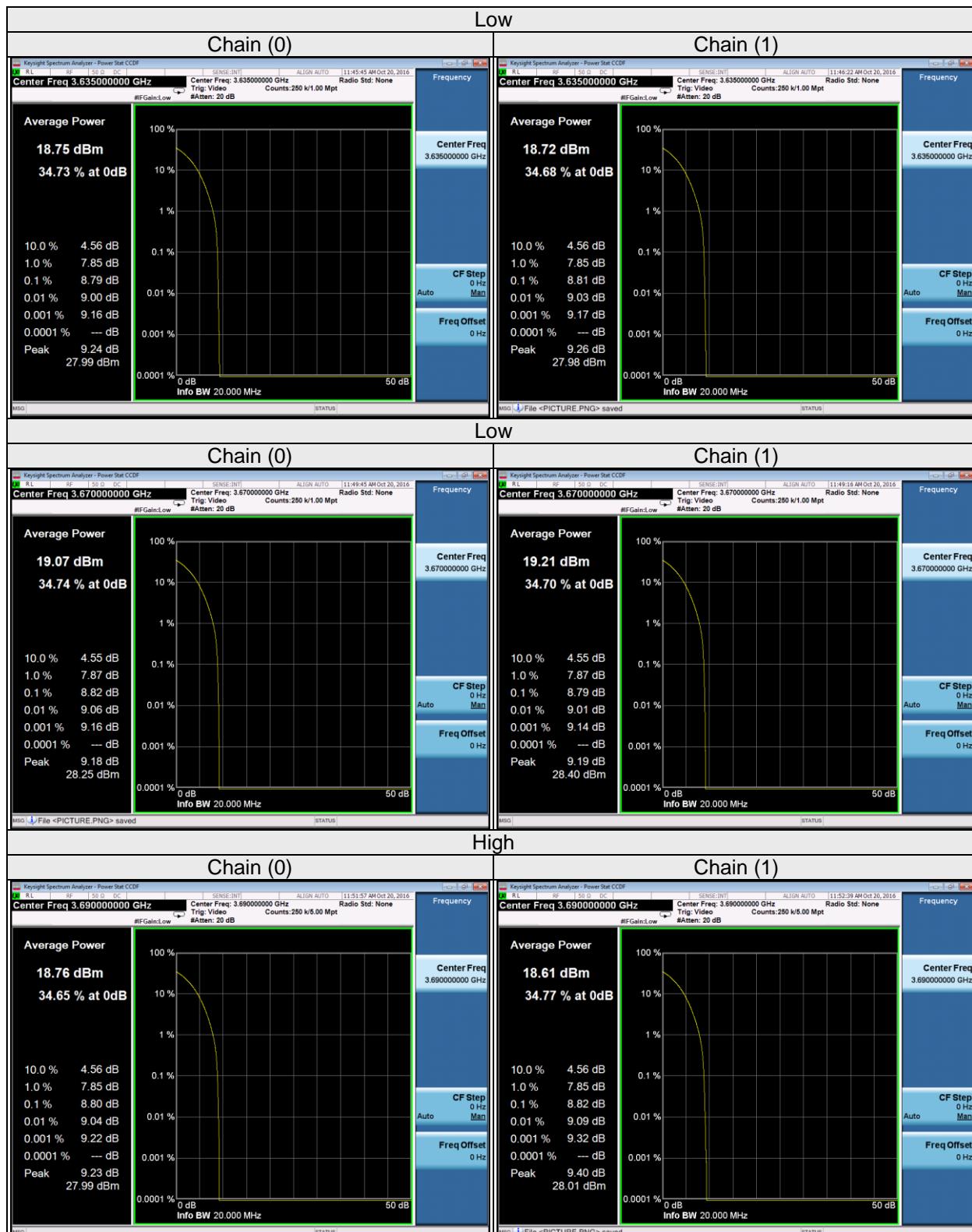
High

Chain (0)



Chain (1)





4.7 Conducted Spurious Emissions

4.7.1 Limits of Conducted Spurious Emissions Measurement

Power of any emissions outside the Fundamental	Limit
Within 0-10MHz above the Assigned Channel	-13 dBm/MHz
Within 0-10MHz below the Assigned Channel	
Greater than 0-10MHz above the Assigned Channel	-25 dBm/MHz
Greater than 0-10MHz below the Assigned Channel	
Power of any emission below 3530MHz	-40 dBm/MHz
Power of any emission above 3720MHz	

Note:

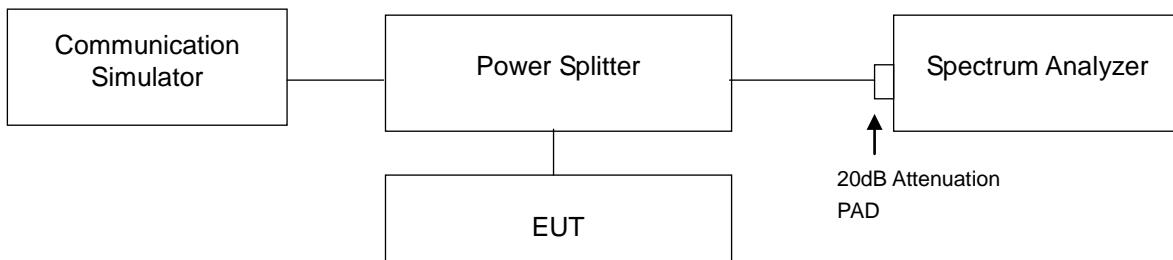
This device can be implement MIMO function, so the limit of spurious emissions needs to be reduced by $10\log(\text{Numbers}_{\text{Ant}})$ according to FCC KDB 662911 D01 guidance.

{The limit is adjusted to $-13\text{dBm} - 10*\log(2) = -16.01\text{dBm}$.}

{The limit is adjusted to $-25\text{dBm} - 10*\log(2) = -28.01\text{dBm}$.}

{The limit is adjusted to $-40\text{dBm} - 10*\log(2) = -43.01\text{dBm}$.}

4.7.2 Test Setup



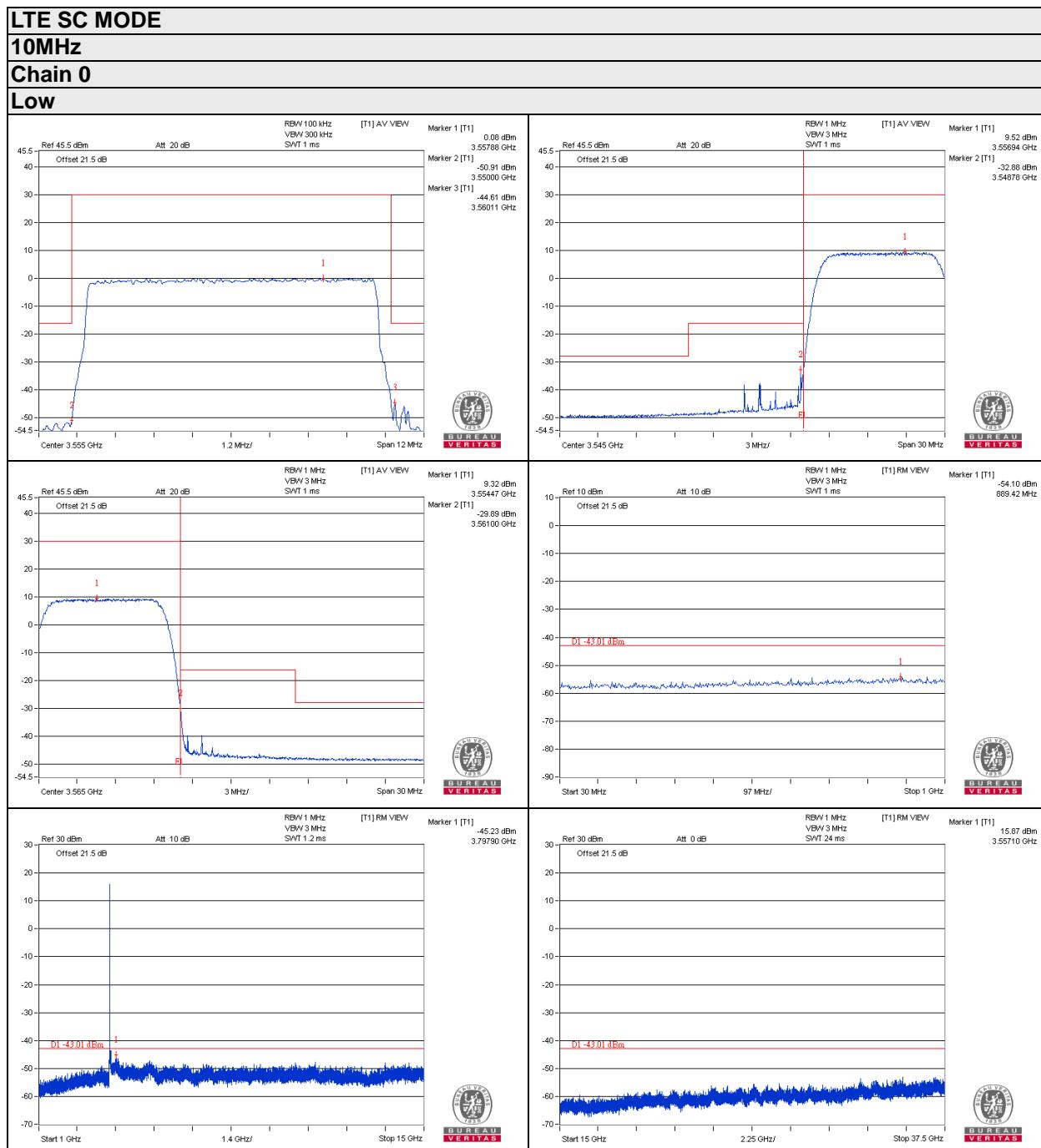
4.7.3 Test Instruments

Refer to section 4.1.3 to get information of above instrument.

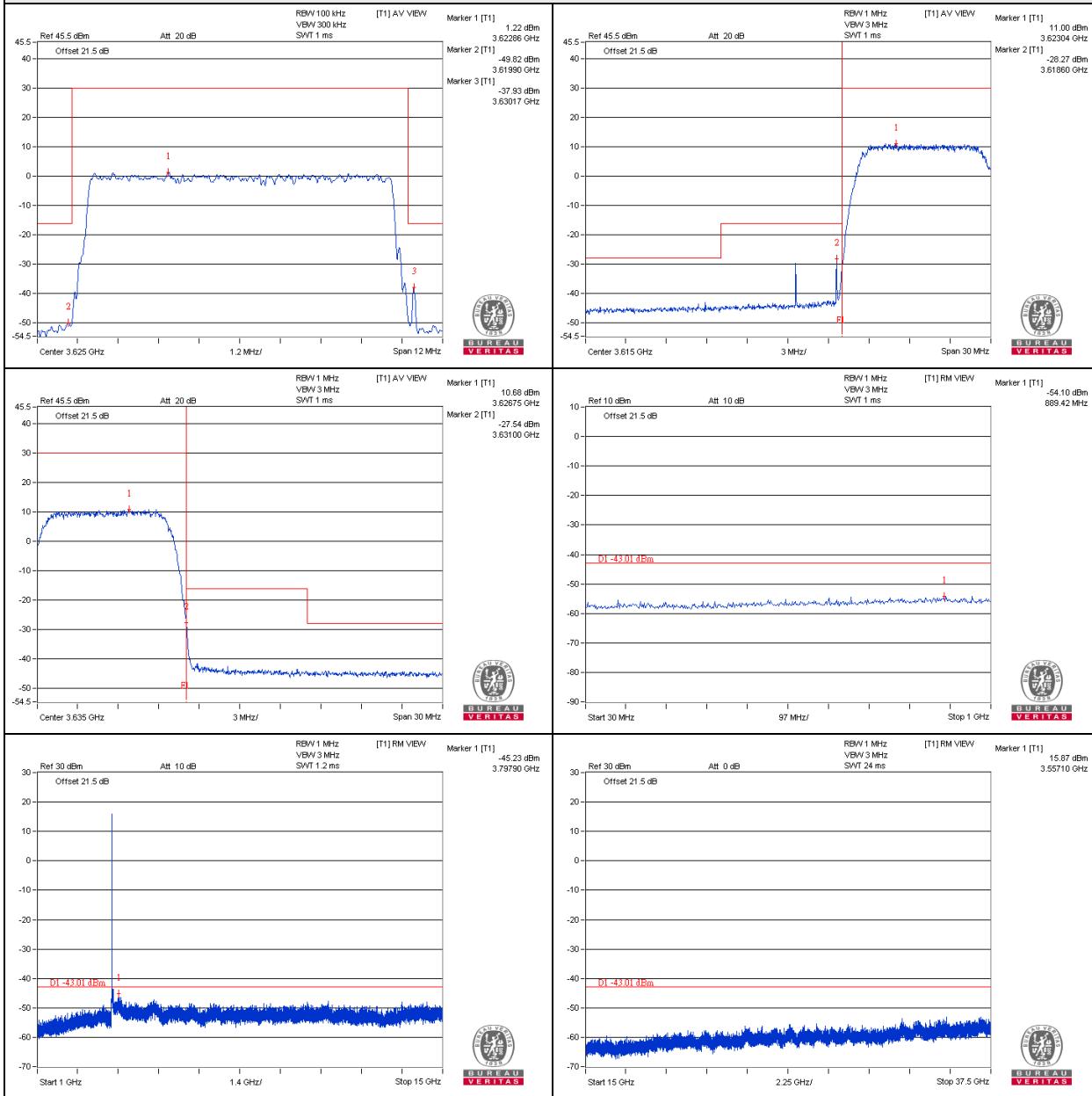
4.7.4 Test Procedure

- The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- Measuring frequency range is from 9 kHz to 37 GHz. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

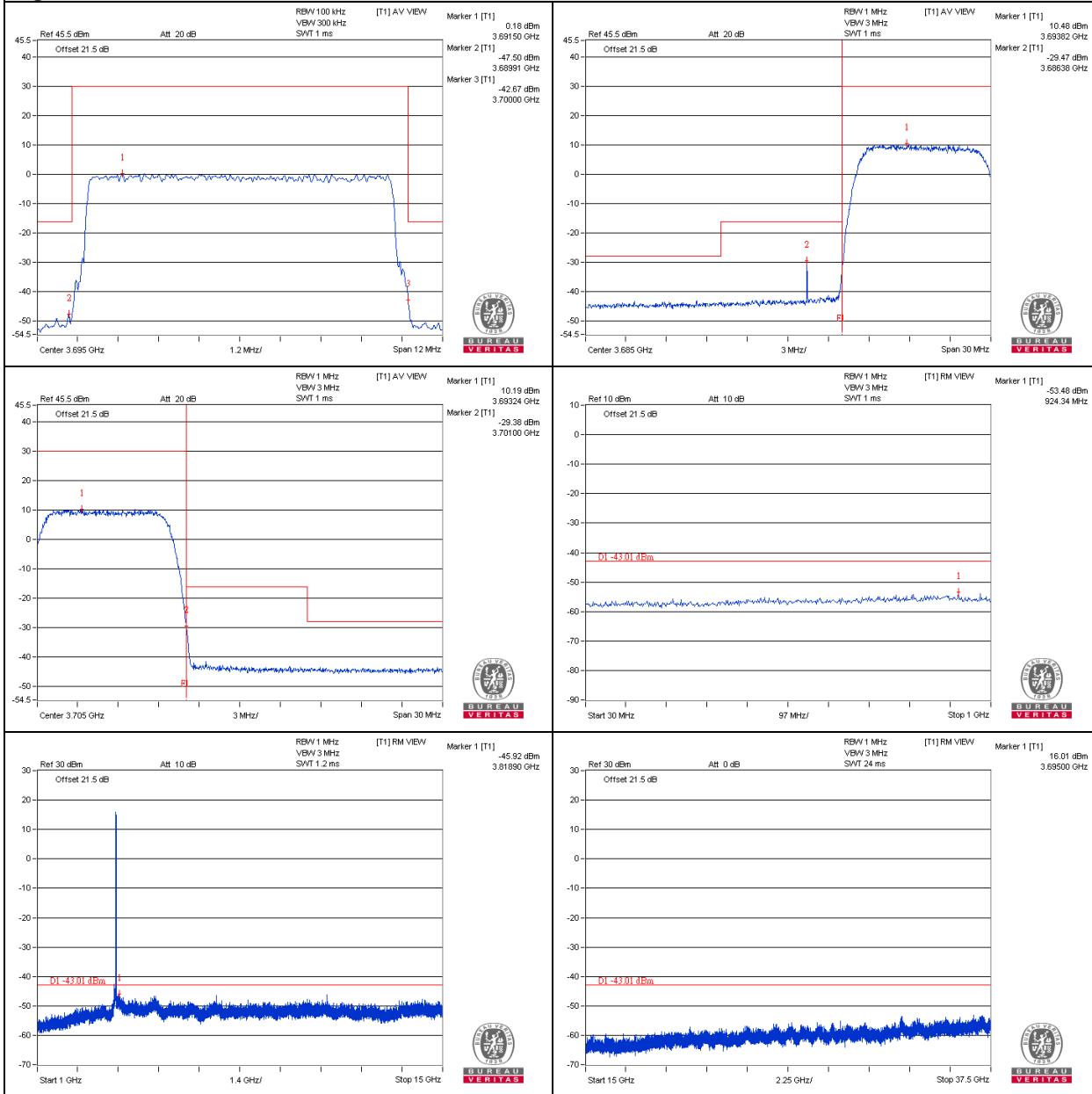
4.7.5 Test Results



Middle

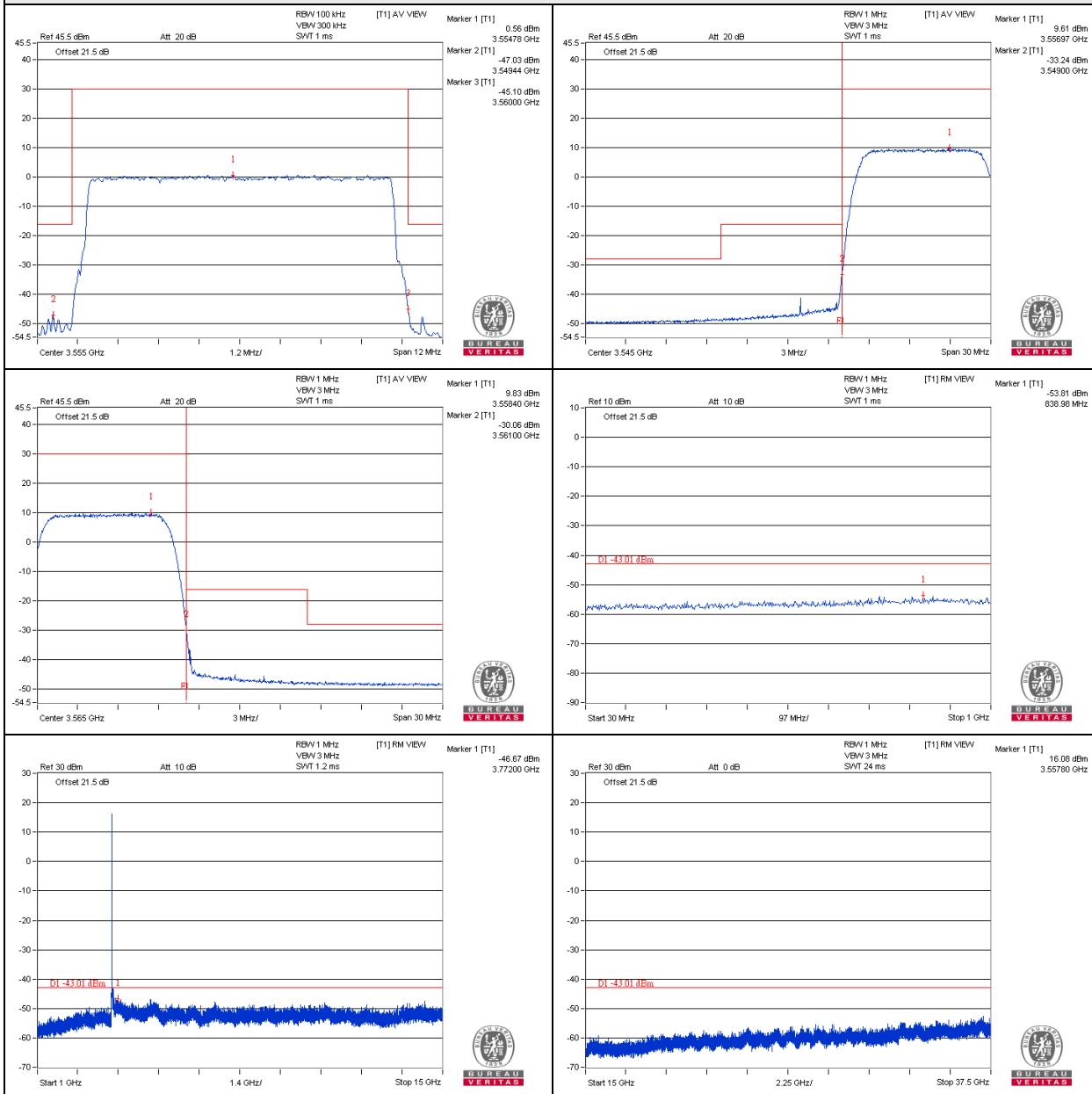


High

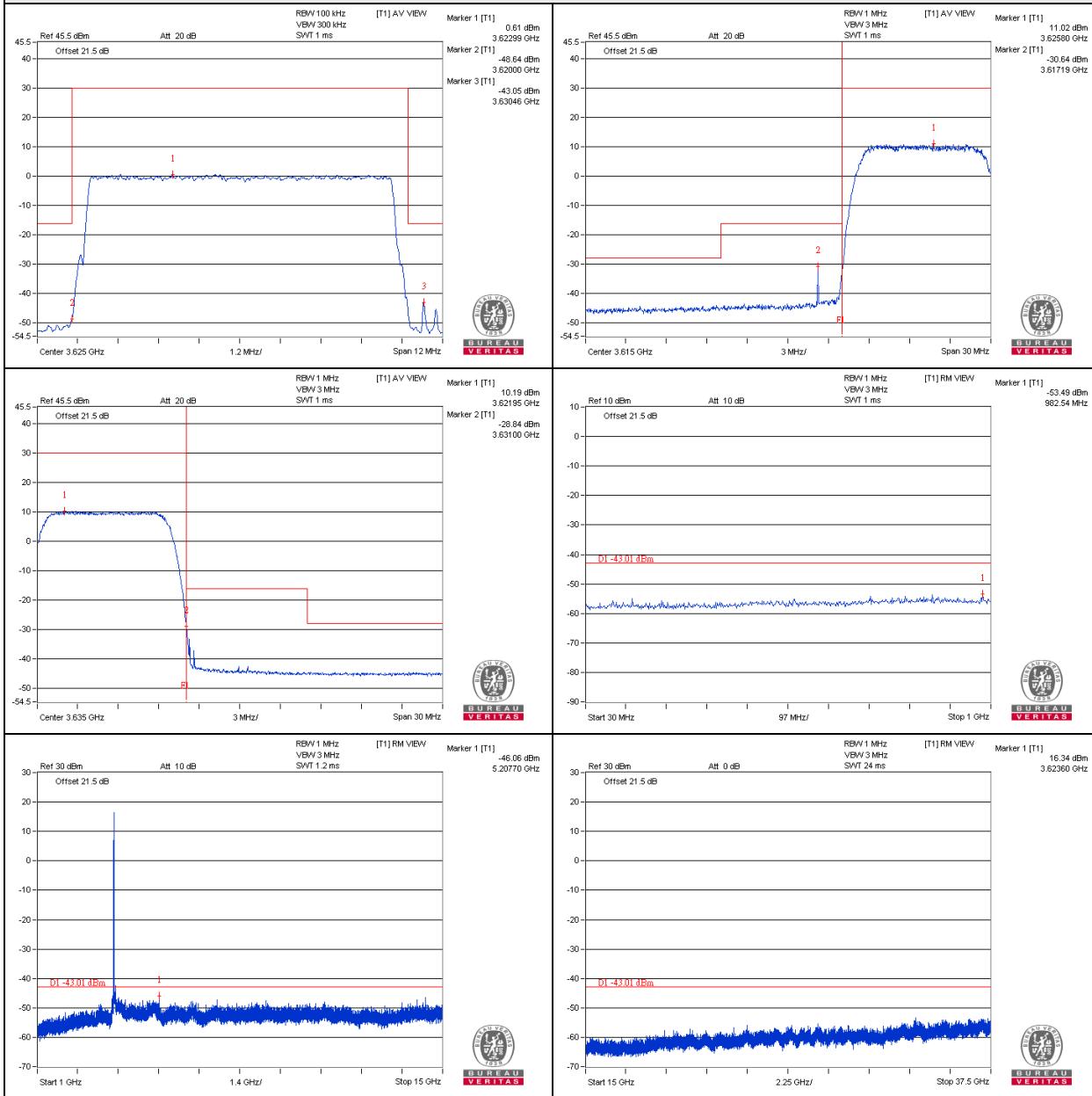


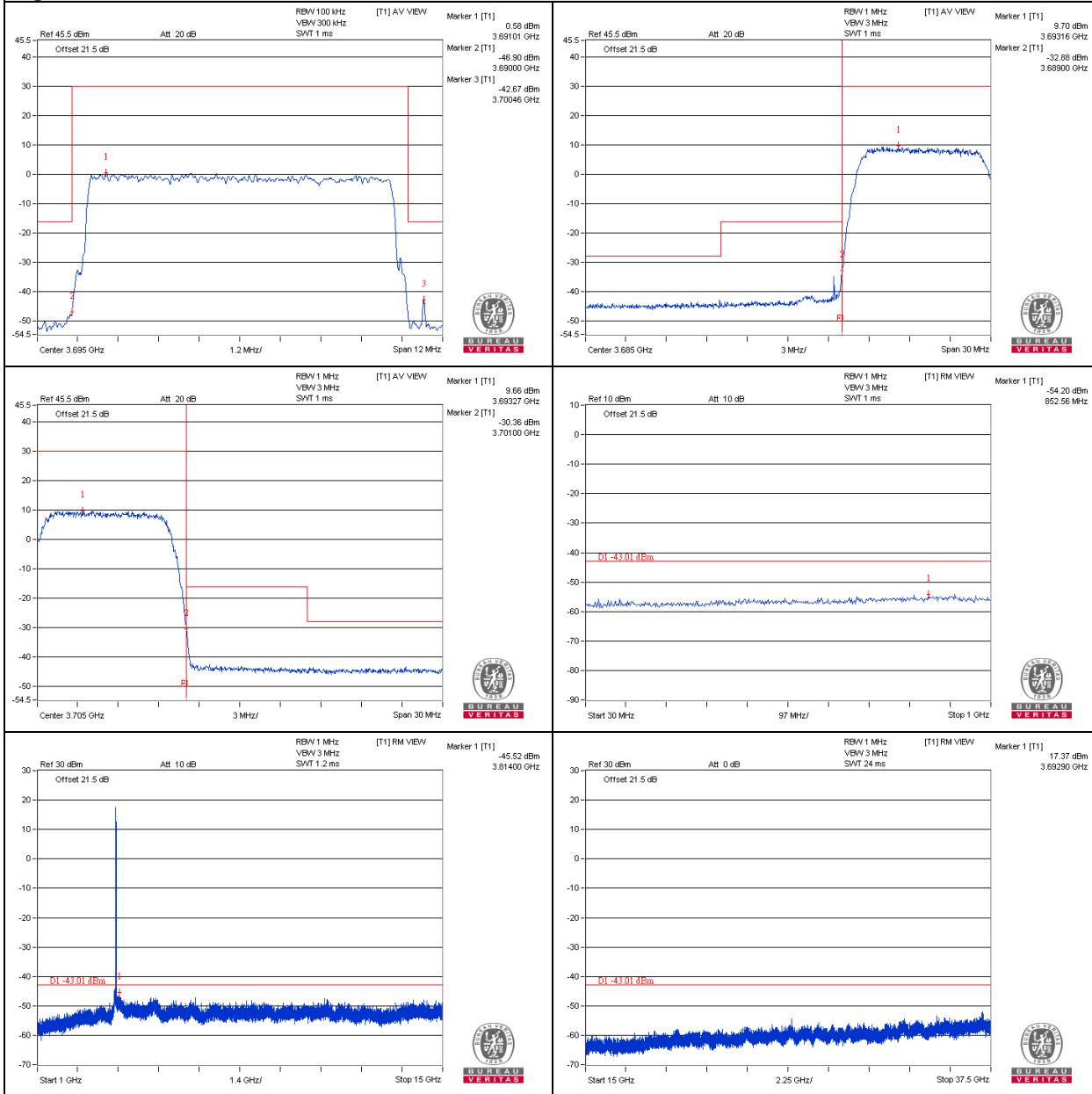
Chain 1

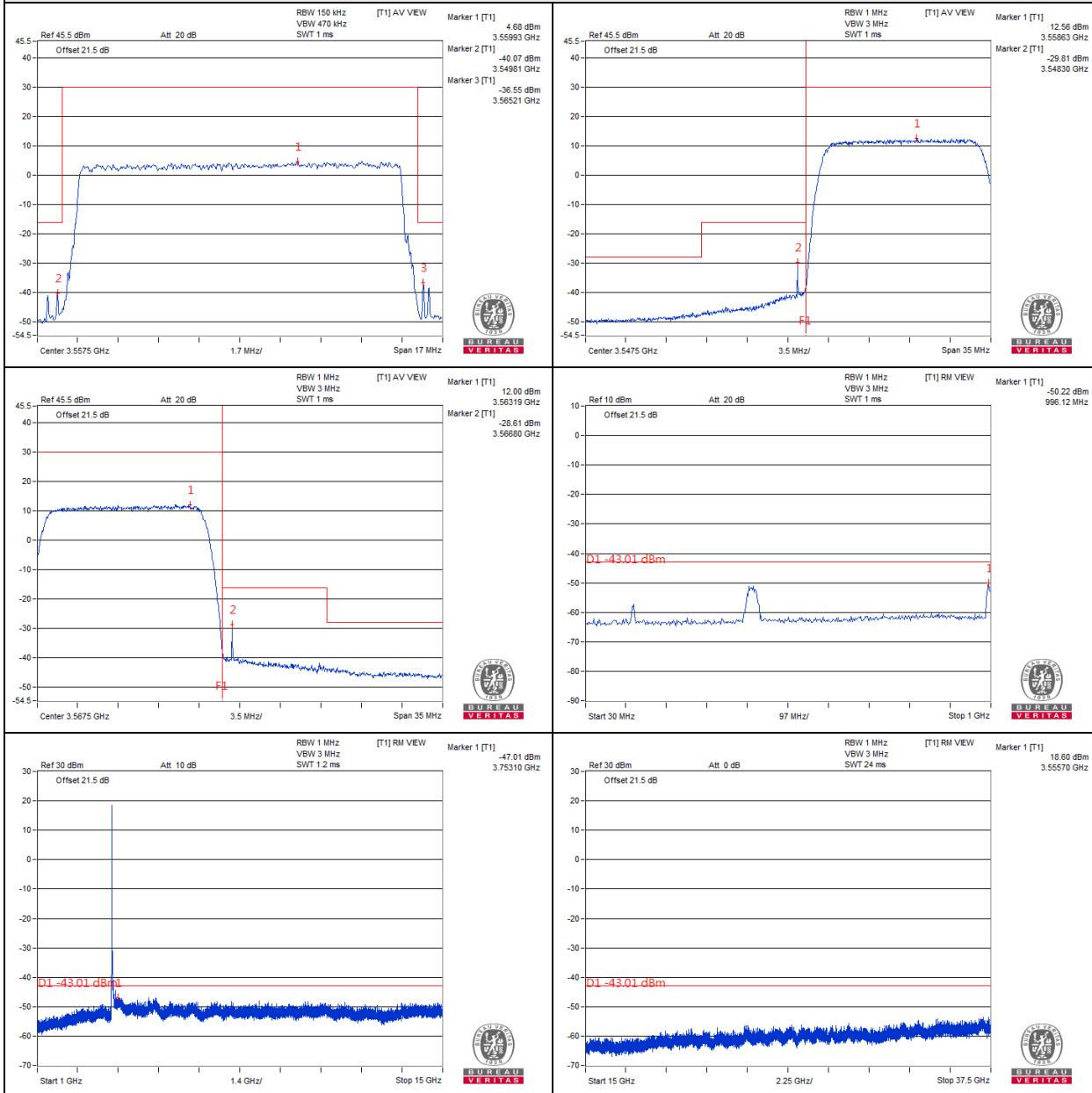
Low

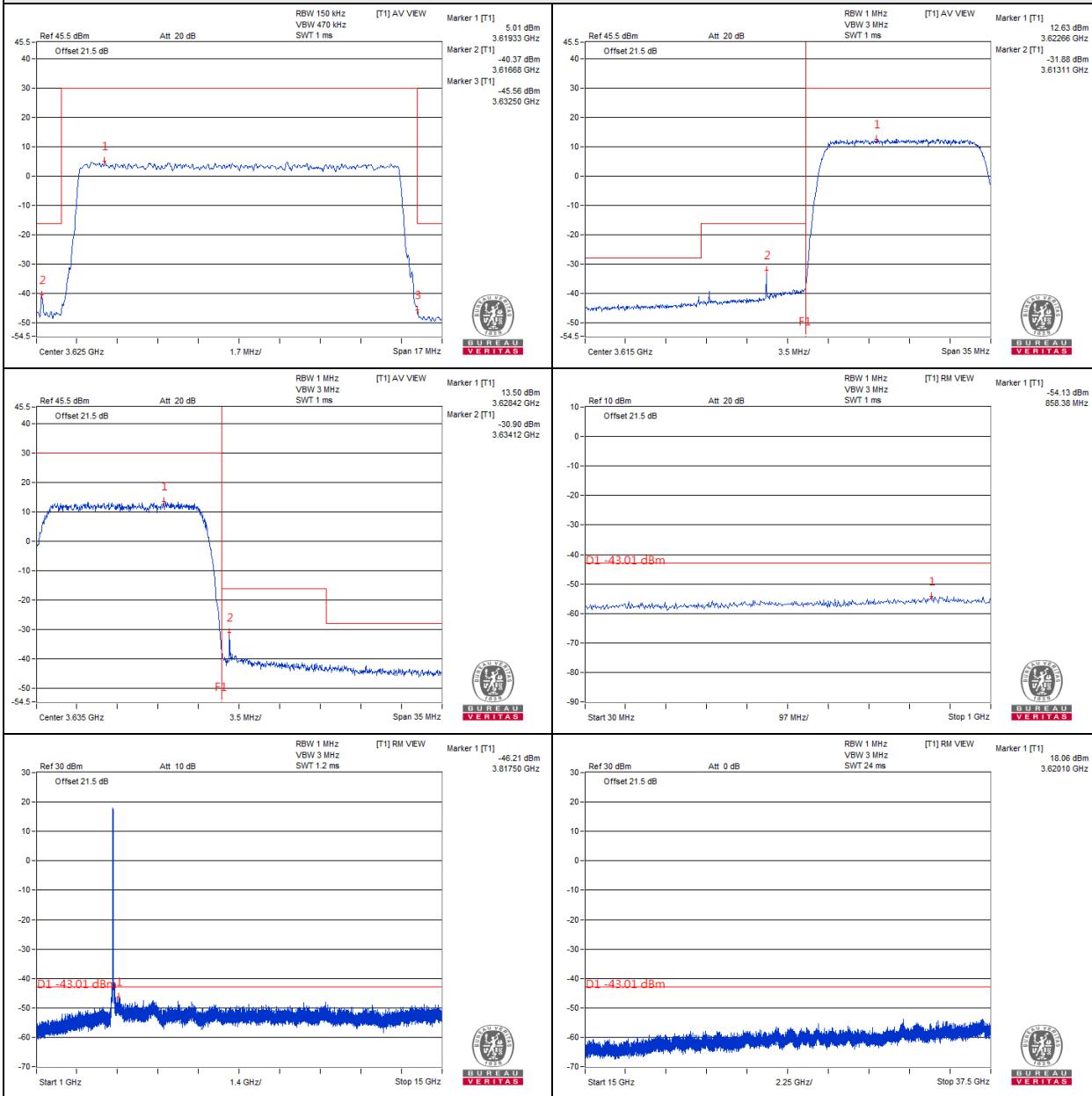


Middle

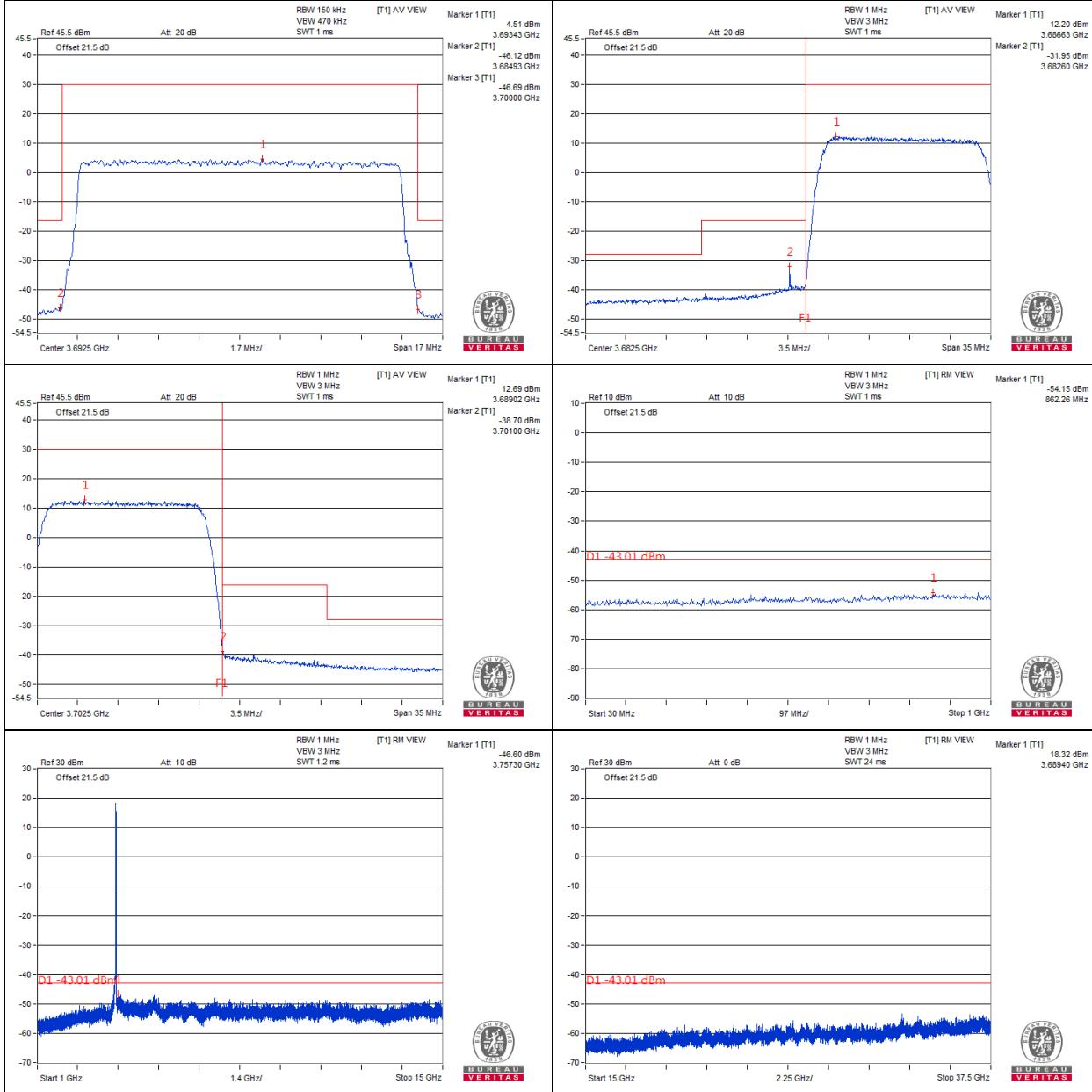


High


15MHz
Chain 0
Low


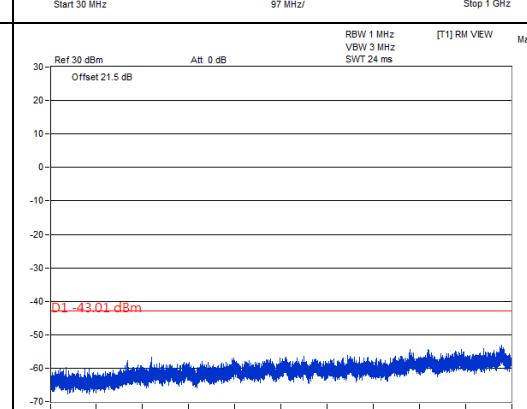
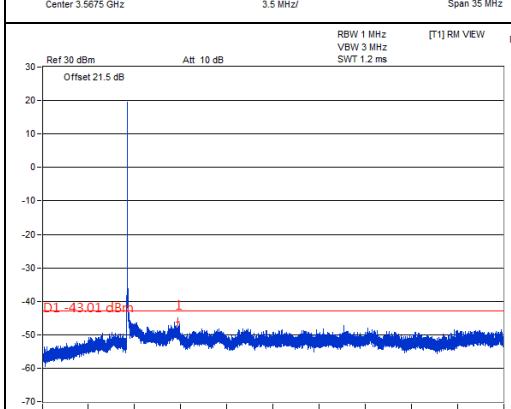
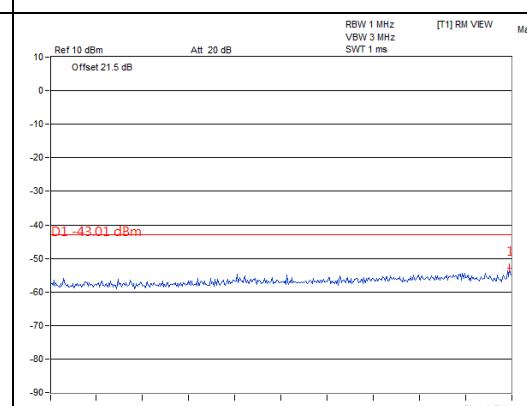
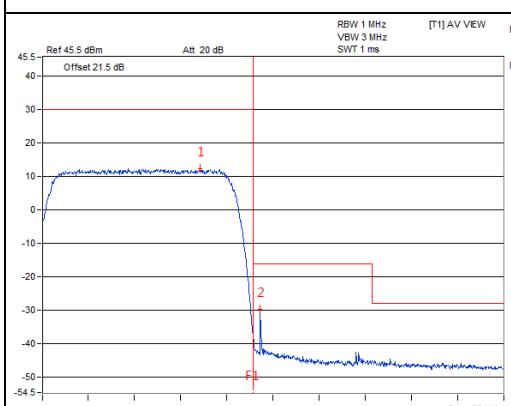
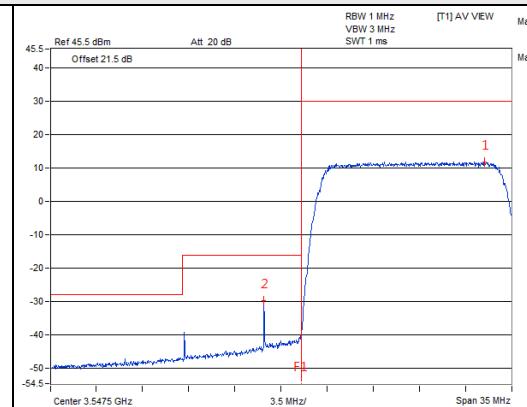
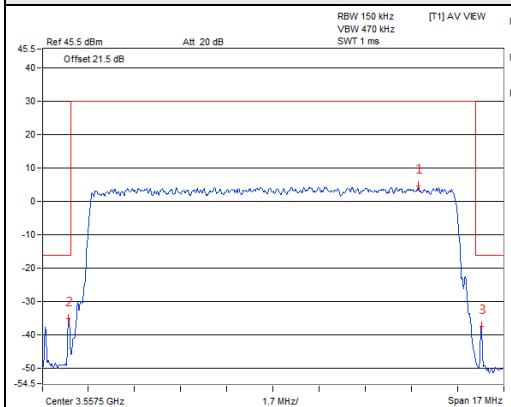
Middle


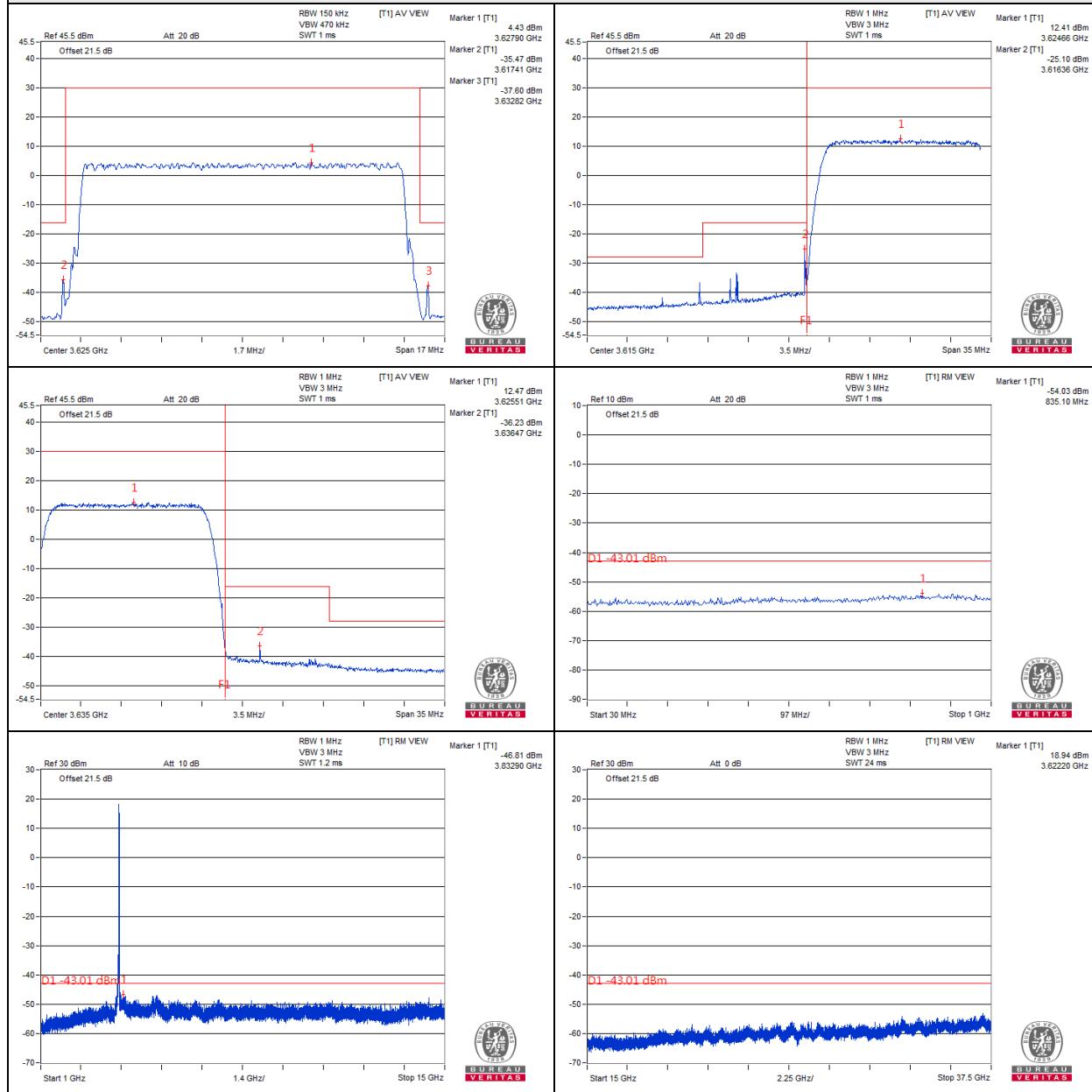
High



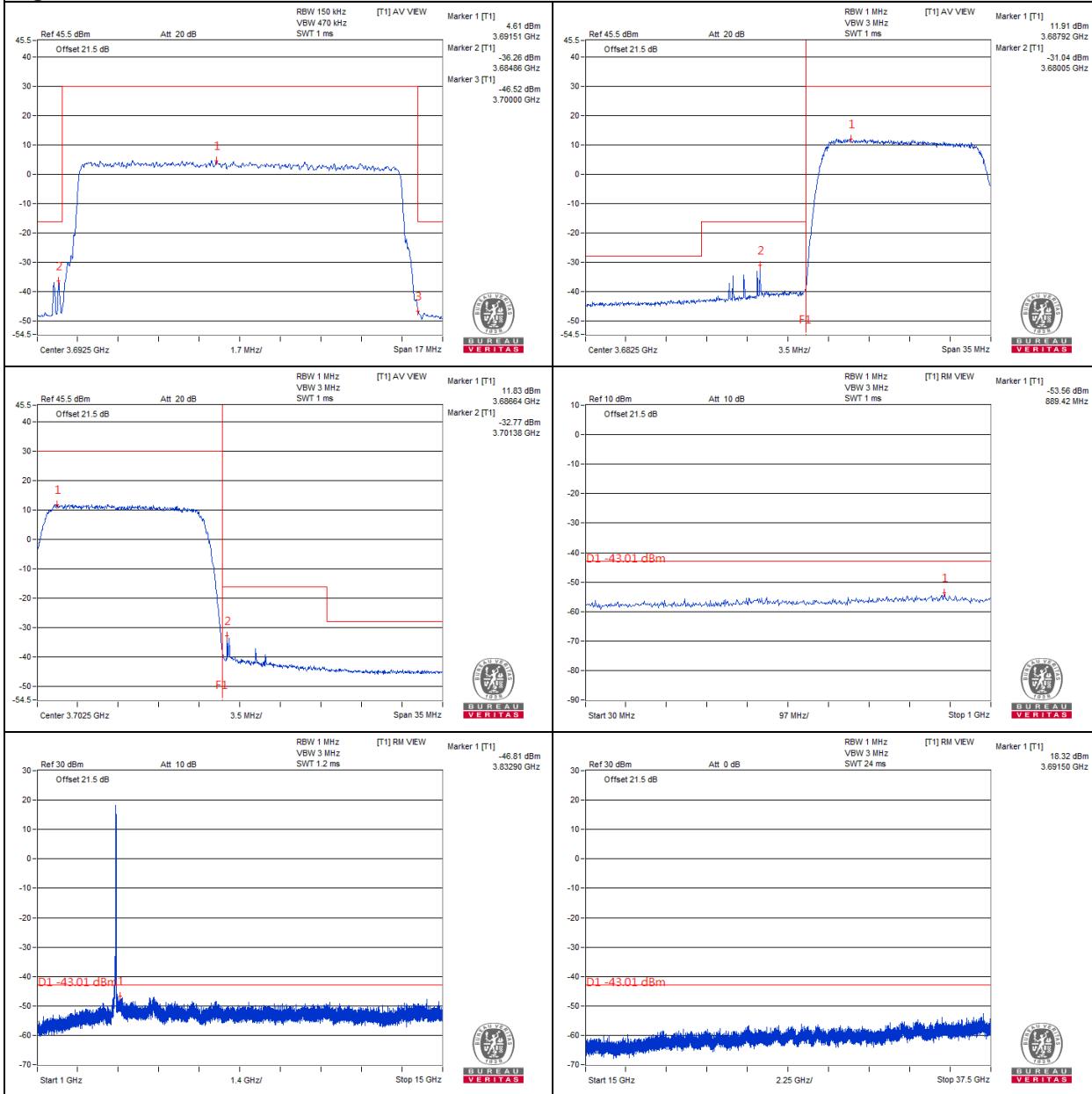
Chain 1

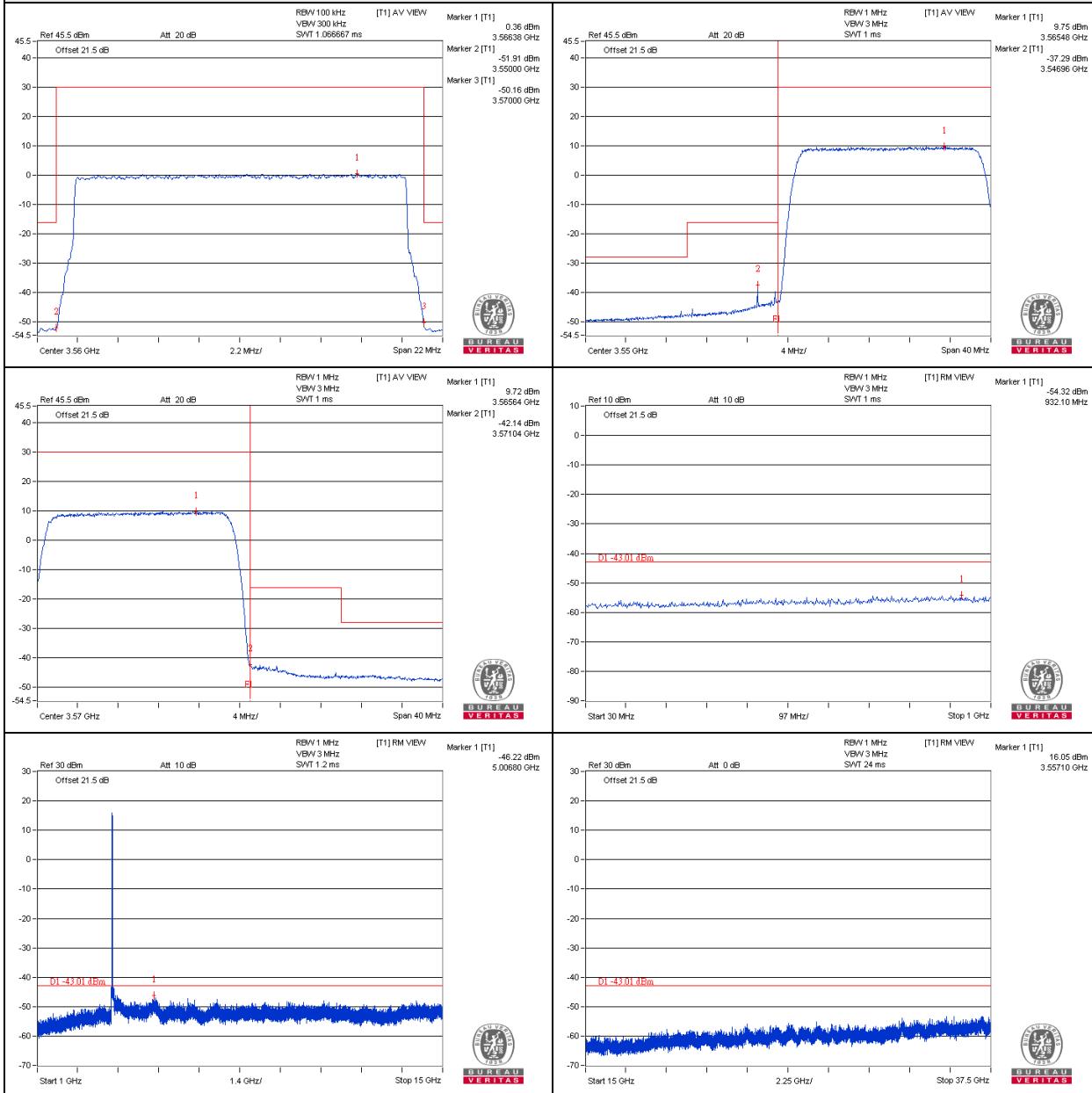
Low



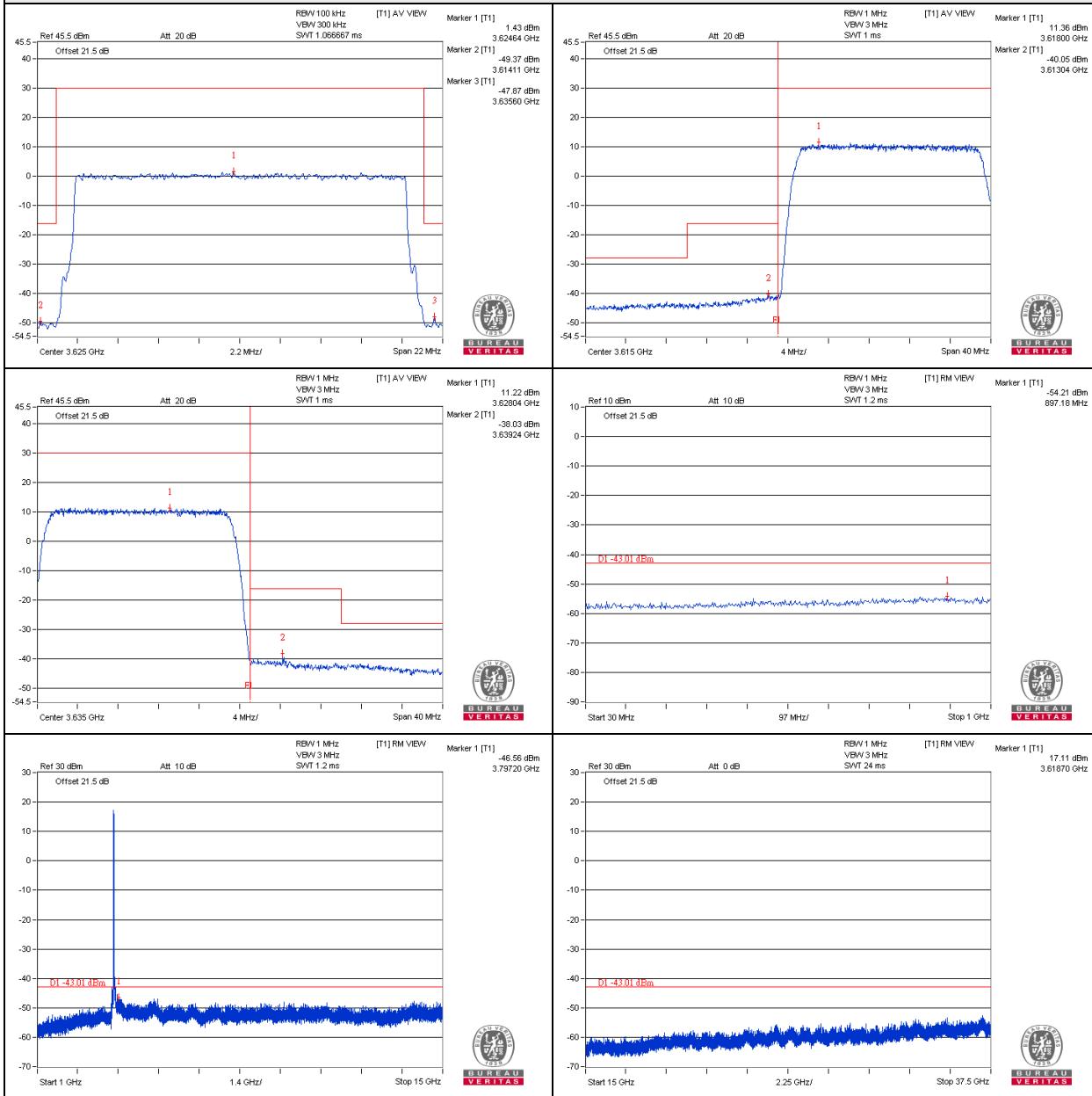
Middle


High

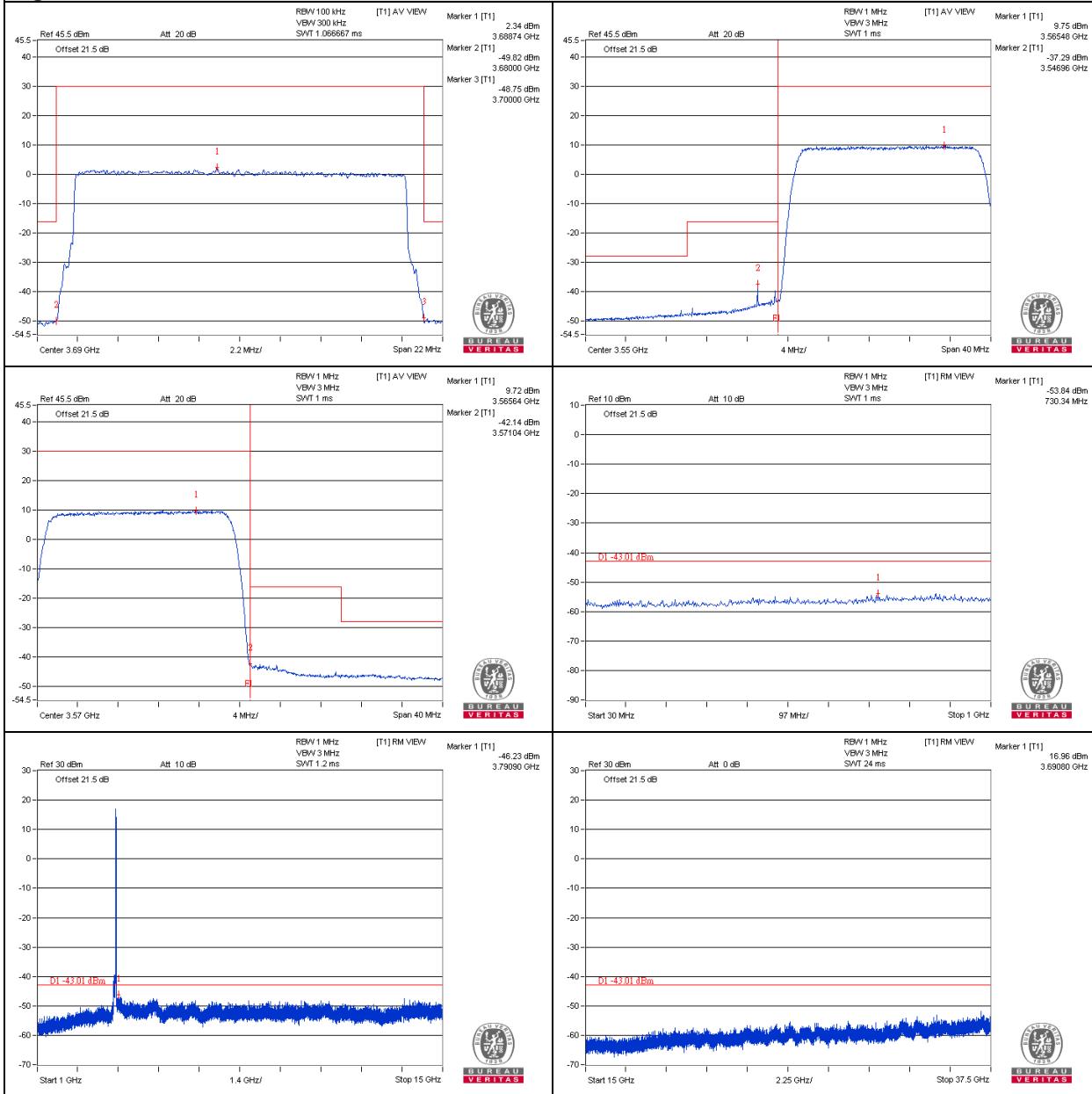


20MHz
Chain 0
Low


Middle

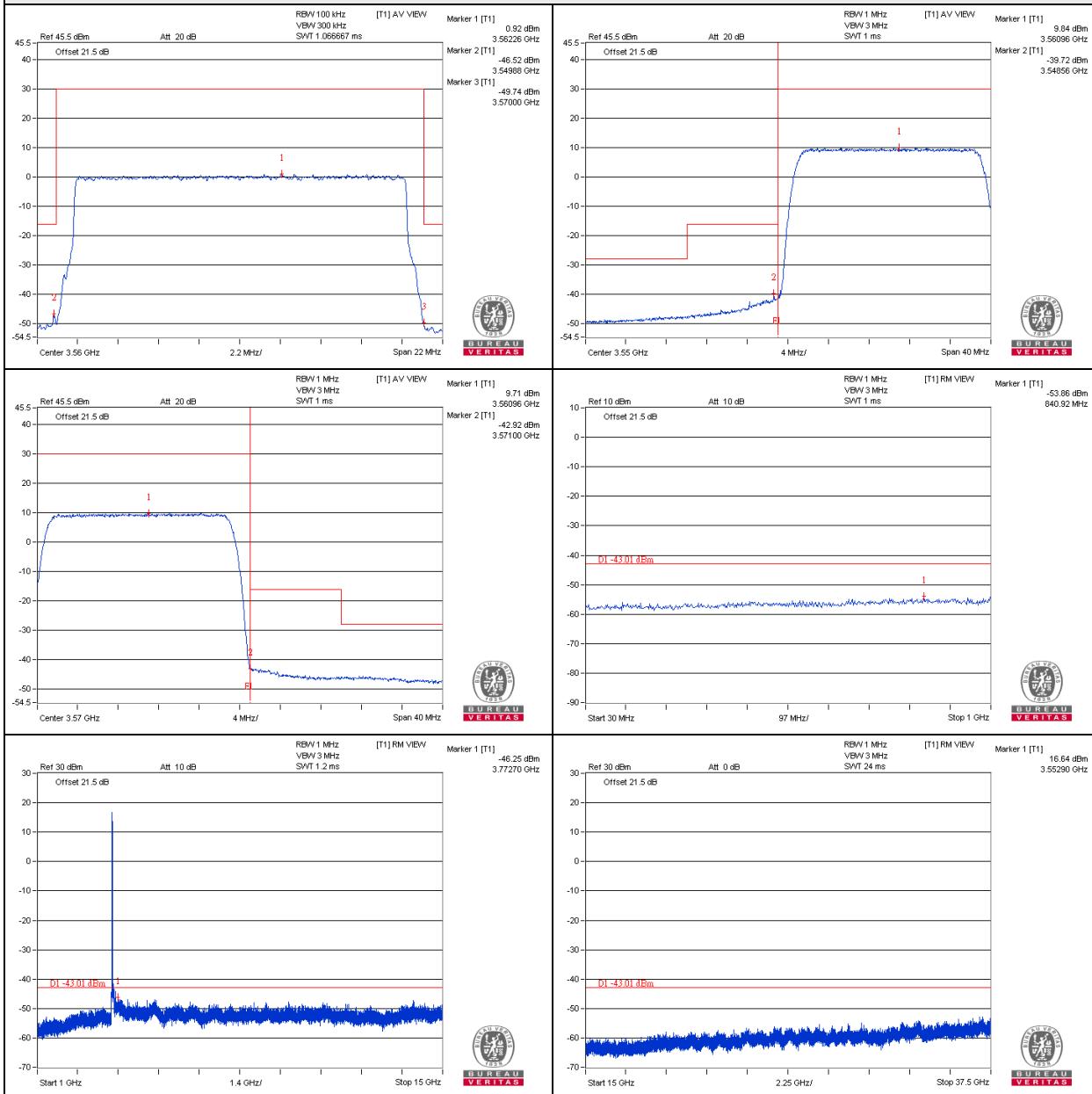


High

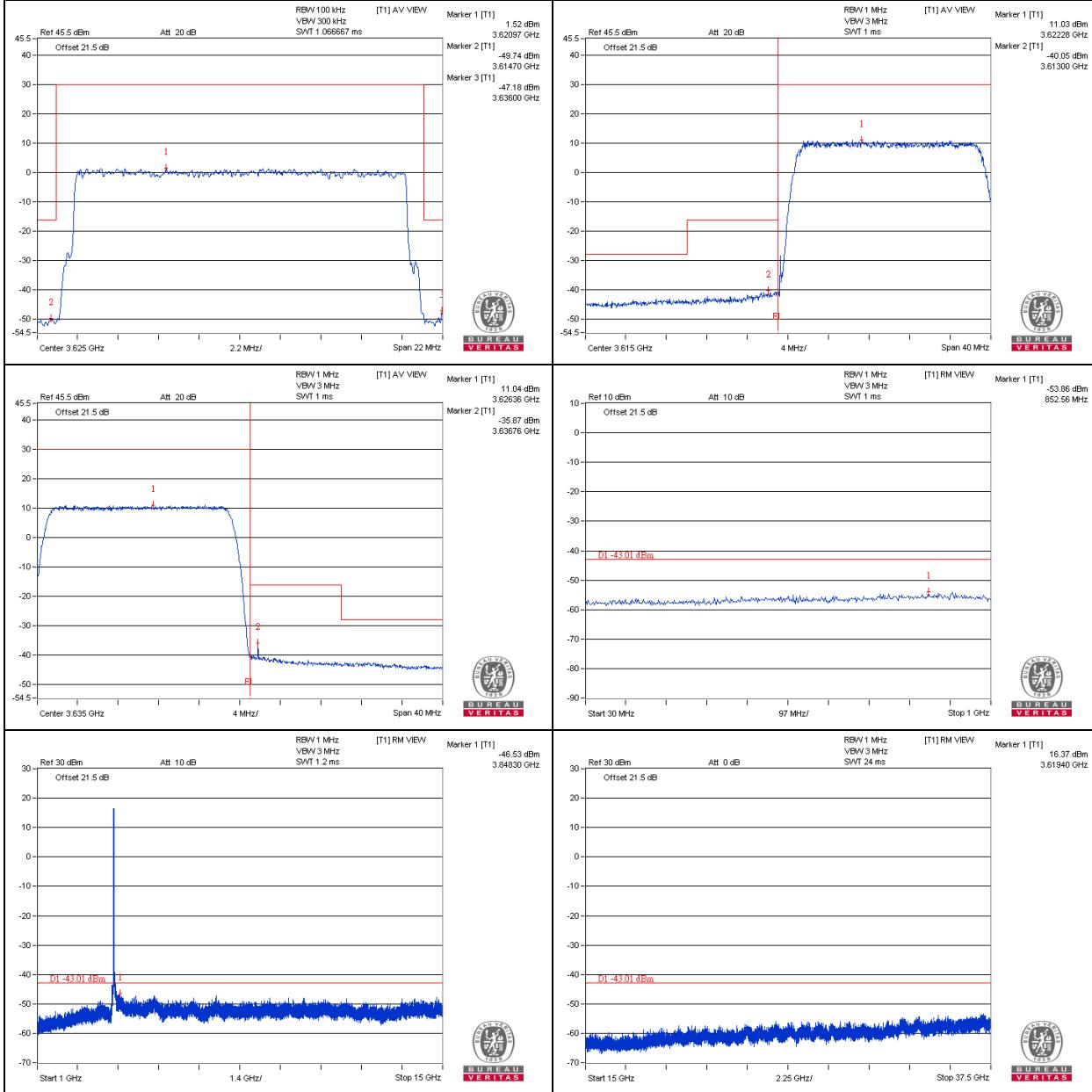


Chain 1

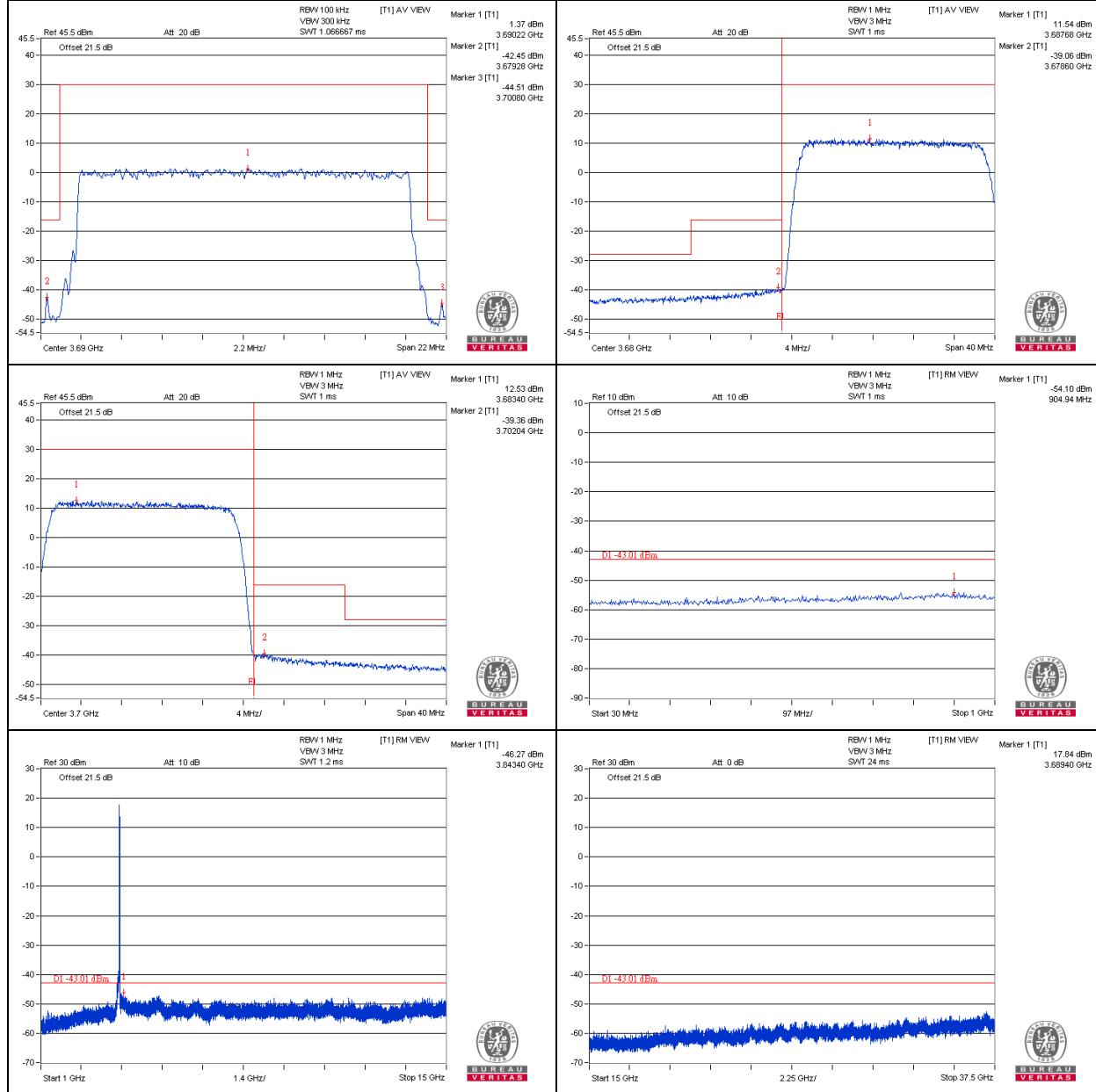
Low



Middle



High

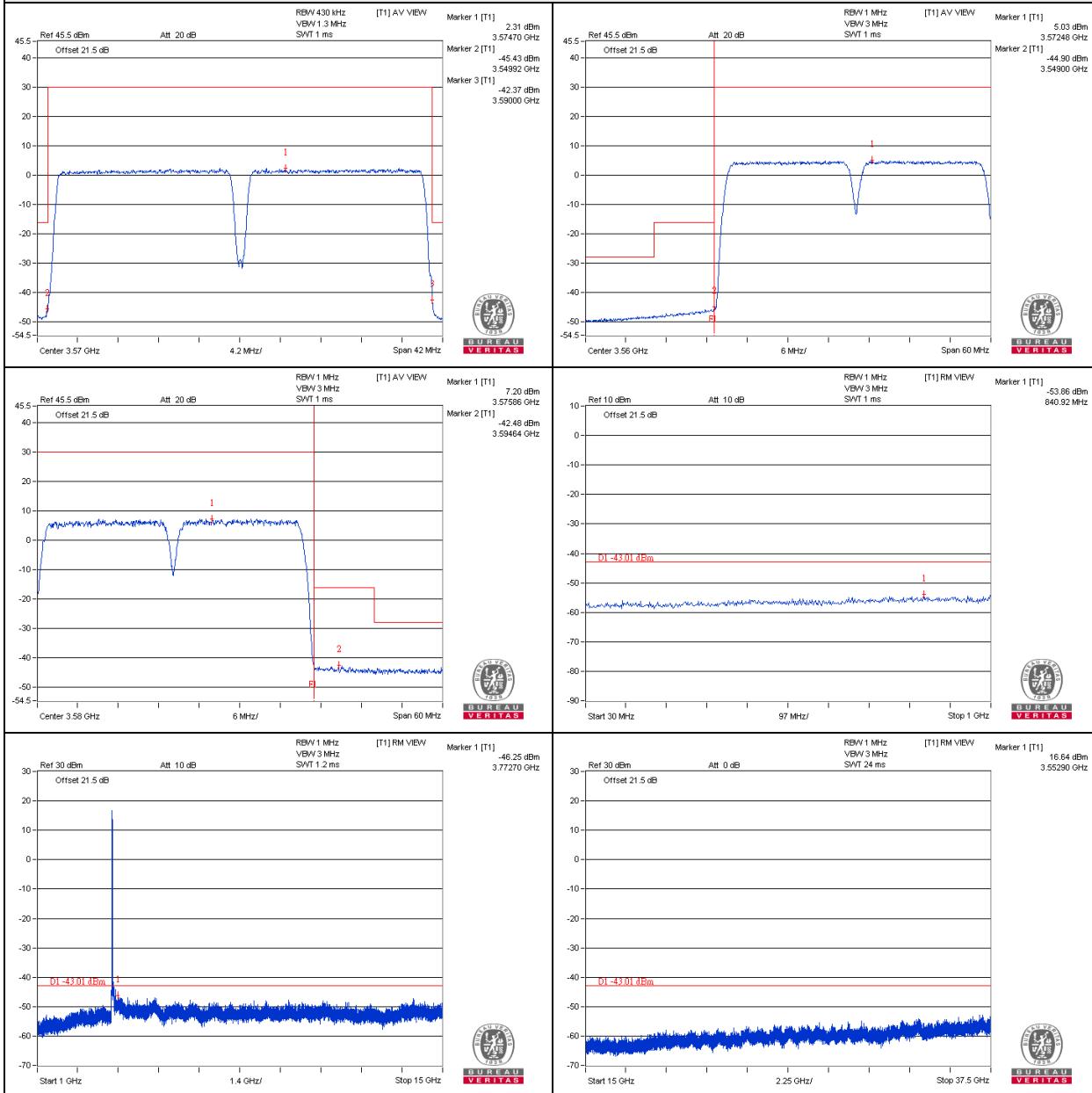


LTE MC MODE

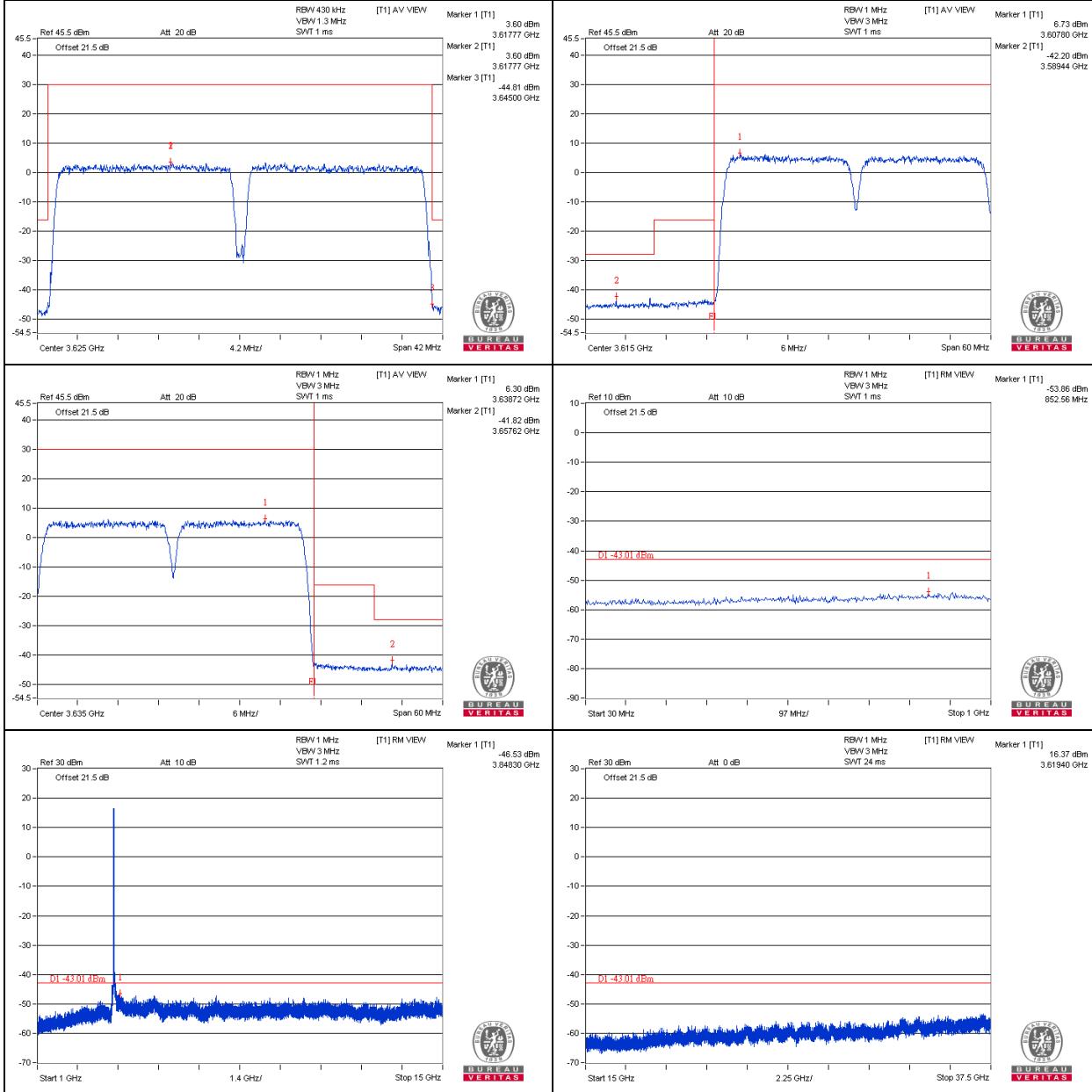
2-Carriers (20MHz+20MHz)

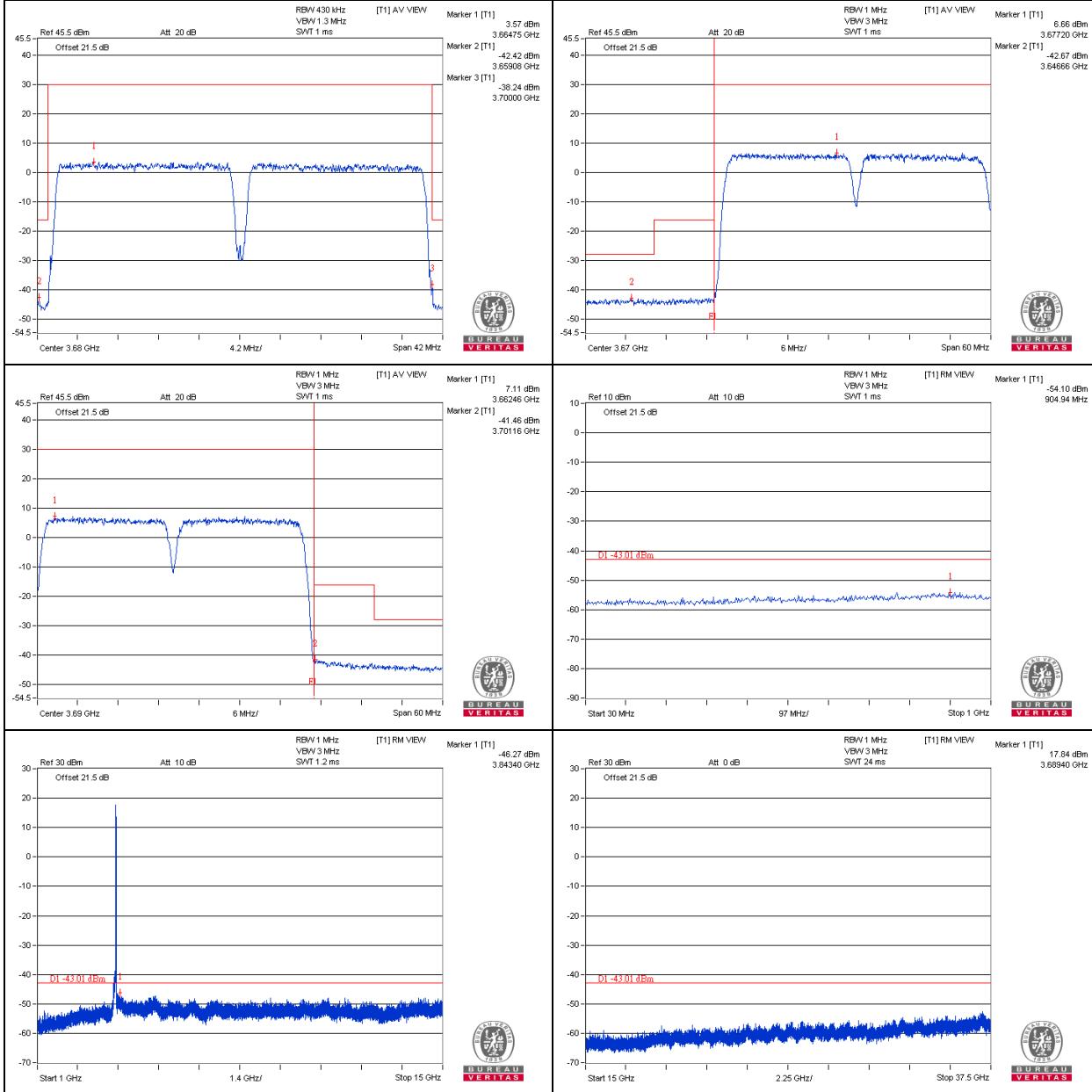
Chain 0

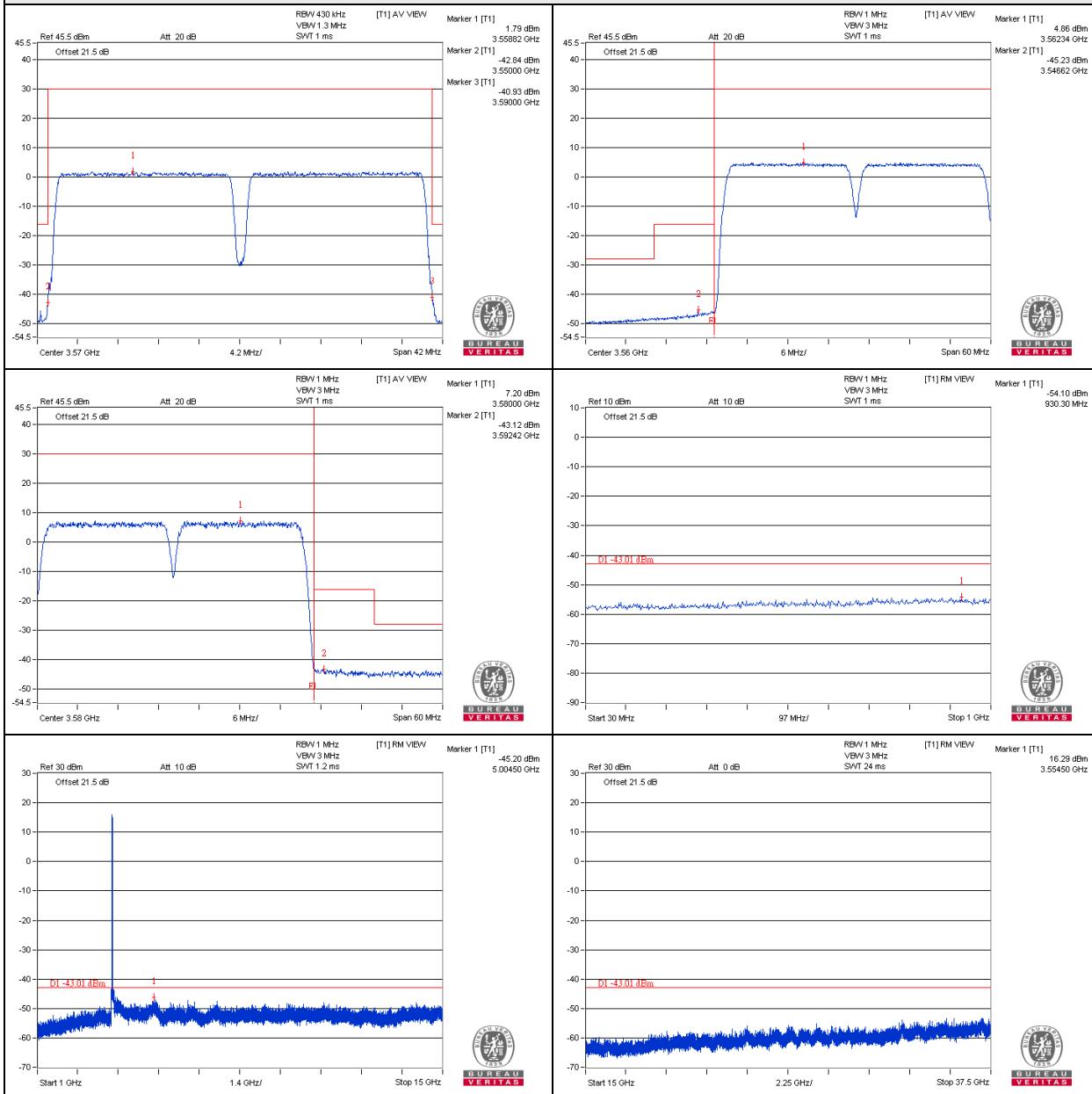
Low

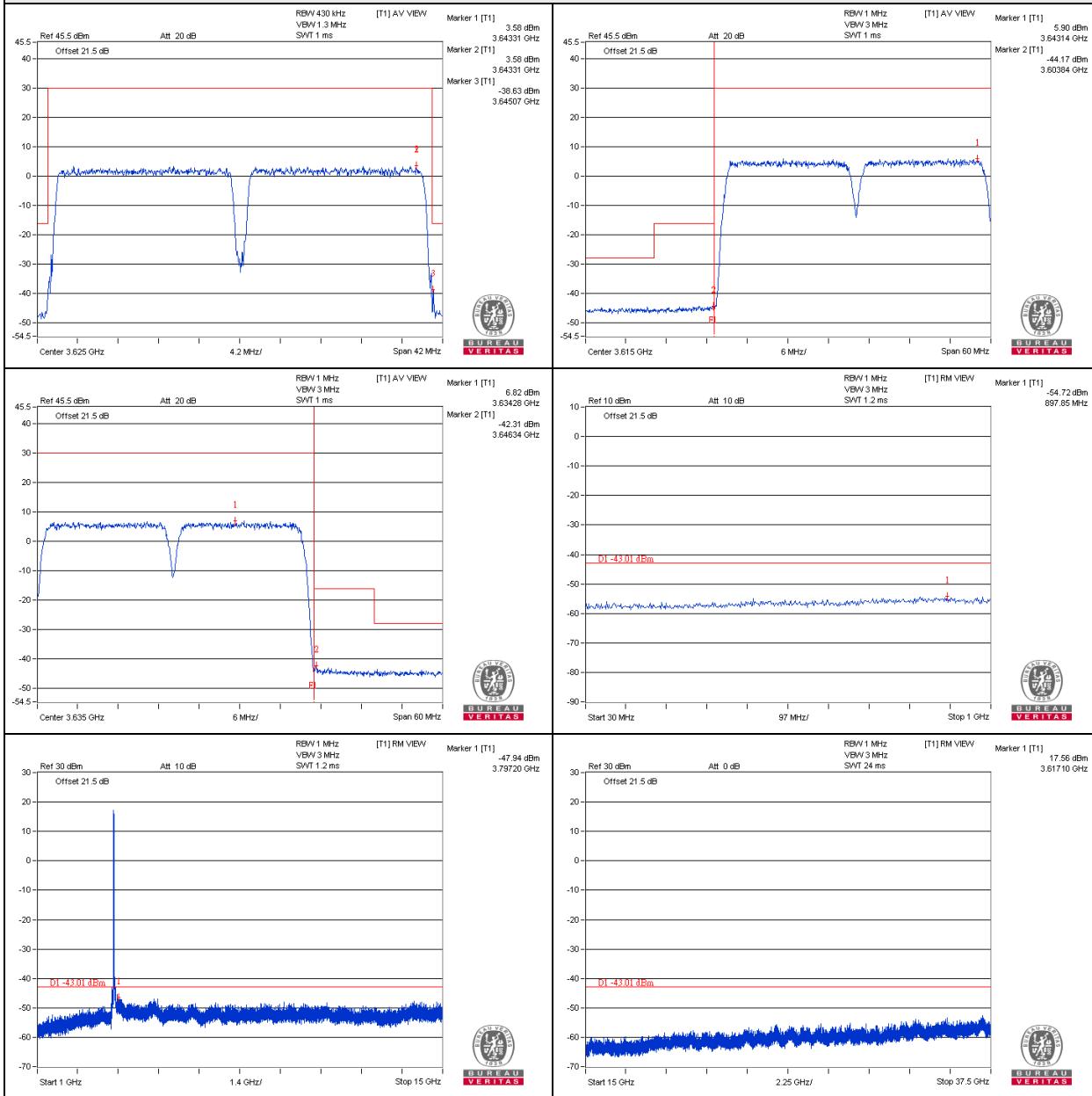


Middle

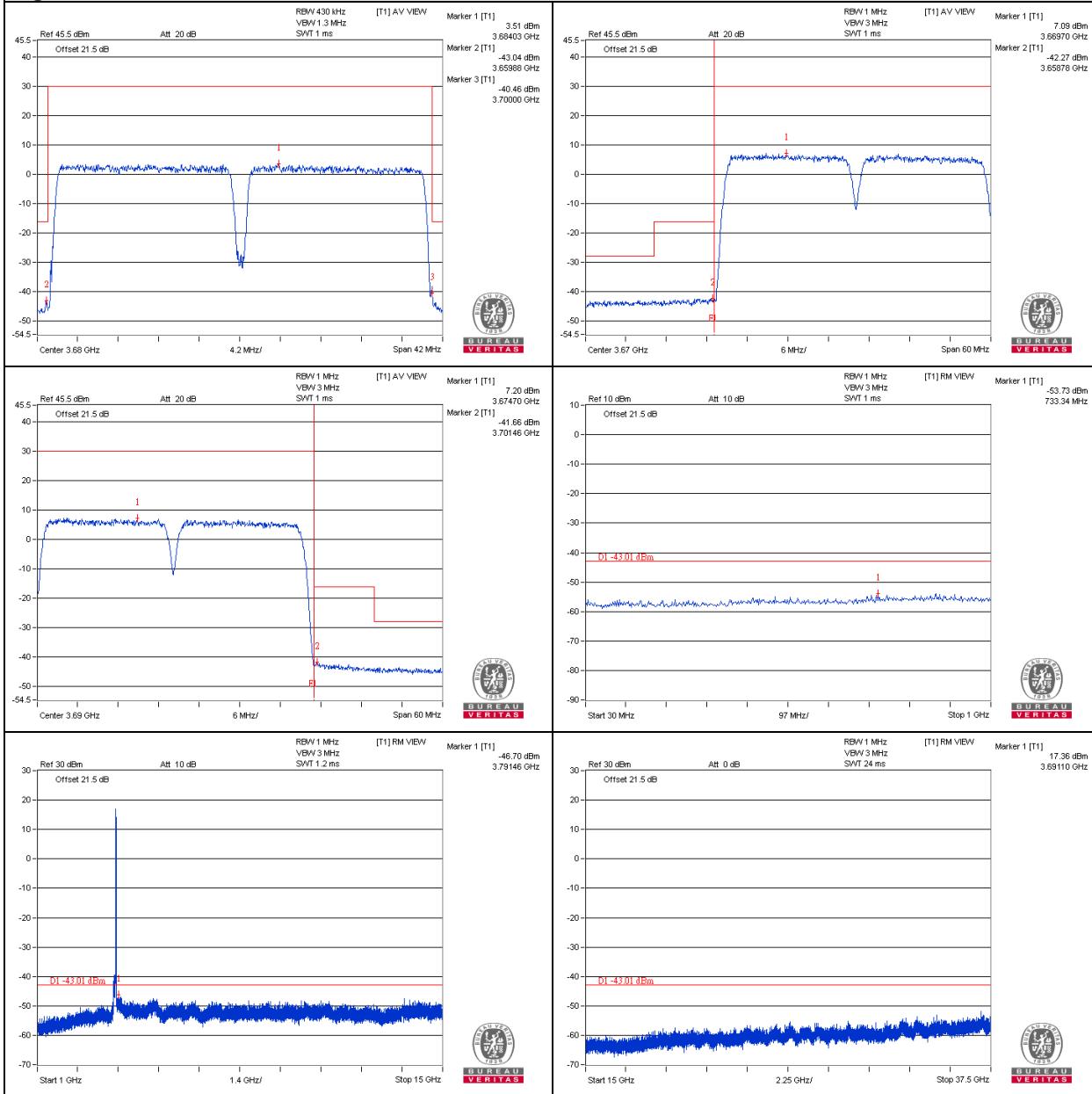


High


Chain 1
Low


Middle


High



4.8 Radiated Emission Measurement

4.8.1 Limits of Radiated Emission Measurement

The power of any emissions below 3530 MHz or above 3720 MHz shall not exceed -40dBm/MHz.

4.8.2 Test Instruments

For 15MHz test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 08, 2017	July 07, 2018
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-01	Nov. 09, 2017	Nov. 08, 2018
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-406	Nov. 29, 2017	Nov. 28, 2018
RF Cable	8D	966-4-1 966-4-2 966-4-3	Apr. 01, 2017	Mar. 31, 2018
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-4-01	Oct. 03, 2017	Oct. 02, 2018
Horn_Antenna SCHWARZBECK	BBHA 9120D	9120D-783	Dec. 12, 2017	Dec. 11, 2018
Pre-Amplifier EMCI	EMC12630SE	980385	Jan. 29, 2018	Jan. 28, 2019
RF Cable	EMC104-SM-SM-1200 EMC104-SM-SM-2000 EMC104-SM-SM-5000	160923 150318 150321	Jan. 29, 2018	Jan. 28, 2019
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 29, 2018	Jan. 28, 2019
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170608	Dec. 14, 2017	Dec. 13, 2018
RF Cable	EMC102-KM-KM-1200	160925	Jan. 29, 2018	Jan. 28, 2019
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208410	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP02	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 4.
3. The CANADA Site Registration No. is 20331-2
4. Loop antenna was used for all emissions below 30 MHz.
5. Tested Date: Mar. 12, 2018

For other test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 20, 2016	July 19, 2017
Pre-Amplifier Mini-Circuits	ZFL-1000VH2B	AMP-ZFL-01	Nov. 11, 2015	Nov. 10, 2016
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-406	Jan. 04, 2016	Jan. 03, 2017
RF Cable	8D	966-4-1 966-4-2 966-4-3	Apr. 02, 2016	Apr. 01, 2017
Horn_Antenna SCHWARZBECK	BBHA 9120D	9120D-783	Jan. 19, 2016	Jan. 18, 2017
Pre-Amplifier Agilent	8449B	3008A01922	Sep. 18, 2016	Sep. 17, 2017
RF Cable	EMC104-SM-SM-2000 EMC104-SM-SM-5000 EMC104-SM-SM-5000	150318 150323 150324	Mar. 30, 2016	Mar. 29, 2017
Pre-Amplifier EMCI	EMC184045	980143	Jan. 15, 2016	Jan. 14, 2017
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170608	Jan. 08, 2016	Jan. 07, 2017
RF Cable	SUCOFLEX 102	36432/2 36441/2	Jan. 16, 2016	Jan. 15, 2017
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208410	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP02	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 4.
3. The FCC Site Registration No. is 292998
4. The CANADA Site Registration No. is 20331-2
5. Tested Date: Oct. 20, 2016

4.8.3 Test Procedures

- a. Substitution method is used for EIRP measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
- b. The substitution antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step a. Record the power level of S.G
- c. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn.}$
- d. ERP power can be calculated form EIRP power by subtracting the gain of dipole, $\text{ERP power} = \text{EIPR power} - 2.15\text{dBi.}$

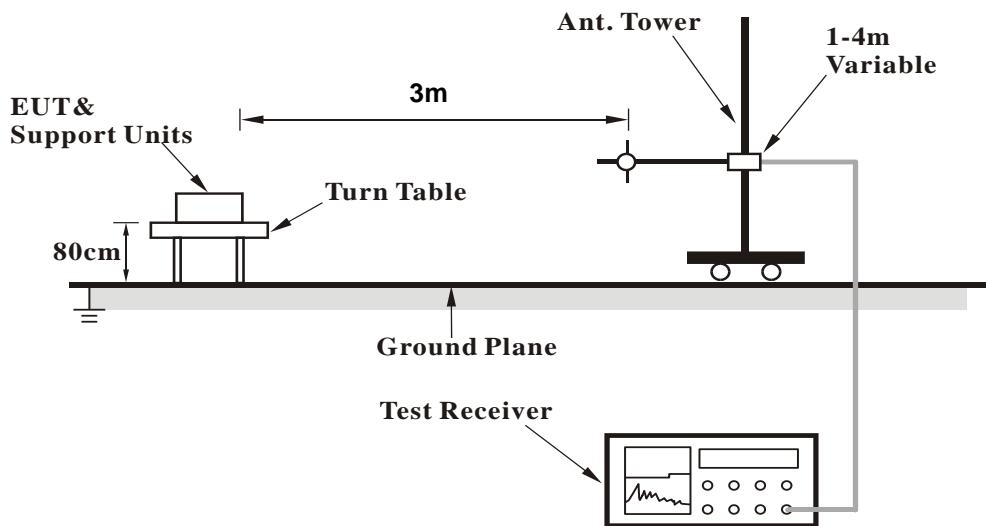
Note: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

4.8.4 Deviation from Test Standard

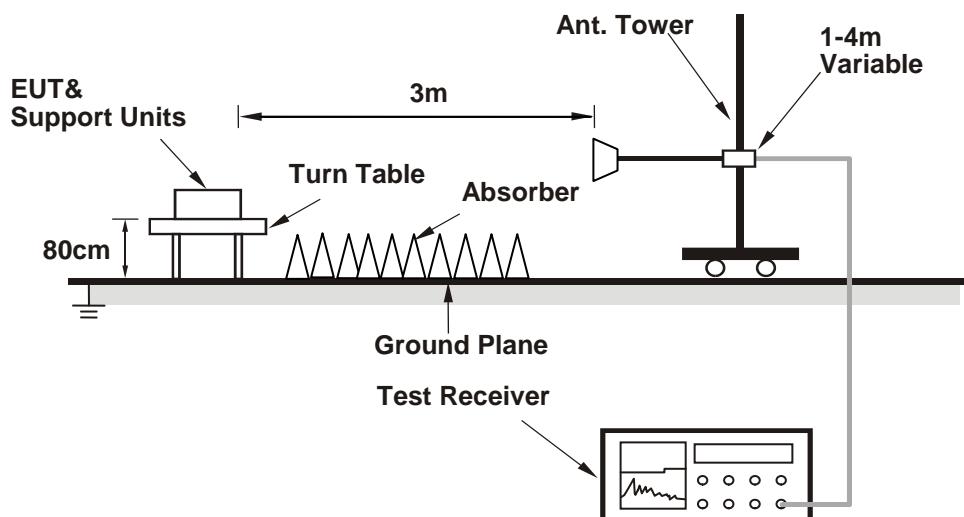
No deviation.

4.8.5 Test Set Up

<Frequency Range below 1GHz>



<Frequency Range above 1GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.8.6 Test Results

Test was done with 50ohm terminator on antenna port.

Below 1GHz Data :

LTE SC MODE

10MHz

Mode	TX Low	Frequency Range	Below 1000 MHz
------	--------	-----------------	----------------

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	159.37	38.15	-50.23	-0.72	-50.95	-40	-10.95
2	177.78	37.61	-55.56	1.87	-53.70	-40	-13.70
3	202.95	36.15	-59.33	4.30	-55.03	-40	-15.03
4	238.36	35.47	-59.95	3.80	-56.15	-40	-16.15
5	283.1	38.39	-56.88	3.82	-53.06	-40	-13.06
6	298.4	33.38	-62.34	3.72	-58.62	-40	-18.62

Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.45	33.00	-38.42	-14.79	-53.21	-40	-13.21
2	173.73	35.00	-57.04	1.28	-55.76	-40	-15.76
3	209.18	38.40	-57.06	4.22	-52.84	-40	-12.84
4	236.32	34.20	-61.30	3.79	-57.51	-40	-17.51
5	299.22	34.10	-61.66	3.72	-57.94	-40	-17.94
6	500.01	33.40	-62.12	2.89	-59.23	-40	-19.23

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX Middle	Frequency Range	Below 1000 MHz
------	-----------	-----------------	----------------

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	159.57	38.12	-50.21	-0.71	-50.92	-40	-10.92
2	177.24	36.13	-56.89	1.79	-55.11	-40	-15.11
3	203.06	34.88	-60.60	4.30	-56.30	-40	-16.30
4	239.35	34.80	-60.58	3.81	-56.77	-40	-16.77
5	282.62	38.26	-57.00	3.83	-53.17	-40	-13.17
6	298.57	33.29	-62.43	3.72	-58.72	-40	-18.72
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	31.01	32.91	-38.72	-14.65	-53.37	-40	-13.37
2	173.59	33.92	-58.08	1.26	-56.82	-40	-16.82
3	209.14	37.39	-58.07	4.22	-53.85	-40	-13.85
4	236.86	33.93	-61.55	3.79	-57.76	-40	-17.76
5	300.13	32.60	-63.19	3.71	-59.47	-40	-19.47
6	500.47	33.16	-62.35	2.89	-59.47	-40	-19.47

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX High	Frequency Range	Below 1000 MHz
------	---------	-----------------	----------------

Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	159.74	37.11	-51.17	-0.70	-51.87	-40	-11.87
2	176.82	35.66	-57.25	1.73	-55.52	-40	-15.52
3	202.98	33.44	-62.04	4.30	-57.74	-40	-17.74
4	239.97	33.37	-61.99	3.81	-58.17	-40	-18.17
5	282.02	37.31	-57.93	3.83	-54.10	-40	-14.10
6	298.49	32.07	-63.65	3.72	-59.93	-40	-19.93
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	33.2	32.36	-40.06	-14.12	-54.18	-40	-14.18
2	174.39	33.00	-59.23	1.38	-57.85	-40	-17.85
3	209.62	36.55	-58.91	4.22	-54.69	-40	-14.69
4	237.82	33.43	-62.01	3.80	-58.21	-40	-18.21
5	299.48	32.59	-63.18	3.72	-59.46	-40	-19.46
6	500.77	31.91	-63.60	2.88	-60.72	-40	-20.72

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

15MHz

Mode	TX Low	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	159.68	37.59	-50.70	-0.71	-51.41	-40	-11.41
2	178.22	36.31	-56.99	1.93	-55.06	-40	-15.06
3	202.01	34.79	-60.70	4.32	-56.38	-40	-16.38
4	238.1	33.40	-62.03	3.80	-58.23	-40	-18.23
5	283.05	37.17	-58.10	3.82	-54.28	-40	-14.28
6	297.93	31.61	-64.09	3.72	-60.37	-40	-20.37
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	33.85	31.90	-40.75	-13.96	-54.71	-40	-14.71
2	173.98	34.03	-58.08	1.32	-56.76	-40	-16.76
3	209.12	37.24	-58.22	4.22	-54.00	-40	-14.00
4	236.9	32.30	-63.18	3.79	-59.39	-40	-19.39
5	298.03	33.05	-62.67	3.73	-58.95	-40	-18.95
6	499.64	31.50	-64.02	2.89	-61.13	-40	-21.13

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX Middle	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	157.94	37.41	-51.38	-0.76	-52.14	-40	-12.14
2	177.71	35.99	-57.16	1.86	-55.31	-40	-15.31
3	201.67	35.85	-59.64	4.32	-55.32	-40	-15.32
4	239.55	33.38	-61.99	3.81	-58.18	-40	-18.18
5	283.03	37.41	-57.86	3.82	-54.04	-40	-14.04
6	297.38	32.52	-63.15	3.72	-59.43	-40	-19.43
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	34.03	31.73	-40.99	-13.92	-54.91	-40	-14.91
2	173.75	33.04	-59.01	1.28	-57.72	-40	-17.72
3	208.64	37.39	-58.07	4.23	-53.84	-40	-13.84
4	236.97	32.63	-62.84	3.79	-59.05	-40	-19.05
5	298.56	31.96	-63.78	3.72	-60.06	-40	-20.06
6	498.87	30.69	-64.84	2.90	-61.94	-40	-21.94

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX High	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	158.86	36.17	-52.36	-0.73	-53.09	-40	-13.09
2	177.24	35.73	-57.29	1.79	-55.51	-40	-15.51
3	202.61	34.47	-61.01	4.31	-56.71	-40	-16.71
4	238.02	33.87	-61.56	3.80	-57.76	-40	-17.76
5	282.6	37.02	-58.24	3.83	-54.41	-40	-14.41
6	297.24	31.80	-63.87	3.72	-60.15	-40	-20.15
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	33.66	31.35	-41.24	-14.01	-55.24	-40	-15.24
2	175.01	34.23	-58.17	1.47	-56.70	-40	-16.70
3	208.82	37.01	-58.45	4.23	-54.23	-40	-14.23
4	235.91	32.33	-63.18	3.78	-59.40	-40	-19.40
5	299.4	32.35	-63.41	3.72	-59.70	-40	-19.70
6	498.85	31.41	-64.12	2.90	-61.23	-40	-21.23

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

20MHz

Mode	TX Low	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	158.74	37.65	-50.91	-0.74	-51.65	-40	-11.65
2	177.63	36.52	-56.61	1.84	-54.77	-40	-14.77
3	202.25	35.91	-59.58	4.31	-55.26	-40	-15.26
4	238.81	34.65	-60.75	3.81	-56.95	-40	-16.95
5	282.49	38.36	-56.89	3.83	-53.07	-40	-13.07
6	298.04	32.72	-62.98	3.72	-59.26	-40	-19.26
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	33.66	32.40	-40.19	-14.01	-54.19	-40	-14.19
2	174.31	34.46	-57.74	1.37	-56.38	-40	-16.38
3	208.51	37.69	-57.77	4.23	-53.54	-40	-13.54
4	236.27	33.03	-62.47	3.79	-58.69	-40	-18.69
5	298.42	33.16	-62.58	3.72	-58.85	-40	-18.85
6	499.53	32.04	-63.49	2.89	-60.59	-40	-20.59

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX Middle	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	158.74	36.44	-52.12	-0.74	-52.86	-40	-12.86
2	178.57	36.19	-57.21	1.98	-55.23	-40	-15.23
3	201.62	35.80	-59.69	4.32	-55.37	-40	-15.37
4	239.41	33.63	-61.75	3.81	-57.94	-40	-17.94
5	281.98	37.34	-57.90	3.83	-54.07	-40	-14.07
6	298.47	31.67	-64.05	3.72	-60.33	-40	-20.33
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	34.57	30.97	-41.95	-13.78	-55.73	-40	-15.73
2	175.1	33.70	-58.72	1.48	-57.25	-40	-17.25
3	208.56	36.22	-59.24	4.23	-55.01	-40	-15.01
4	237.1	32.61	-62.86	3.79	-59.07	-40	-19.07
5	298.65	33.03	-62.71	3.72	-58.99	-40	-18.99
6	500.11	31.92	-63.60	2.89	-60.71	-40	-20.71

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX High	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	158.41	35.69	-52.97	-0.75	-53.71	-40	-13.71
2	178.07	35.47	-57.79	1.91	-55.88	-40	-15.88
3	201.74	34.92	-60.57	4.32	-56.25	-40	-16.25
4	240.04	32.78	-62.57	3.82	-58.76	-40	-18.76
5	282.14	37.14	-58.10	3.83	-54.27	-40	-14.27
6	298.51	30.42	-65.30	3.72	-61.58	-40	-21.58
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	35.14	30.83	-42.29	-13.65	-55.94	-40	-15.94
2	174.77	32.35	-59.98	1.43	-58.55	-40	-18.55
3	207.75	35.90	-59.57	4.24	-55.33	-40	-15.33
4	236.41	31.70	-63.80	3.79	-60.01	-40	-20.01
5	299.5	31.82	-63.95	3.72	-60.23	-40	-20.23
6	499.83	31.12	-64.40	2.89	-61.51	-40	-21.51

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

LTE MC MODE
2-Carriers (20MHz+20MHz)

Mode	TX Low	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	158.89	37.06	-51.46	-0.73	-52.19	-40	-12.19
2	177.1	35.57	-57.41	1.77	-55.65	-40	-15.65
3	203.08	35.44	-60.04	4.30	-55.74	-40	-15.74
4	238.06	34.45	-60.98	3.80	-57.18	-40	-17.18
5	283.07	37.47	-57.80	3.82	-53.98	-40	-13.98
6	298.39	32.69	-63.03	3.72	-59.31	-40	-19.31
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	34.58	31.20	-41.72	-13.78	-55.50	-40	-15.50
2	174.07	33.25	-58.89	1.33	-57.56	-40	-17.56
3	208.54	36.28	-59.18	4.23	-54.95	-40	-14.95
4	236.42	32.55	-62.94	3.79	-59.16	-40	-19.16
5	297.81	32.33	-63.39	3.73	-59.66	-40	-19.66
6	498.64	31.55	-63.99	2.90	-61.09	-40	-21.09

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX Middle	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	159.08	35.85	-52.62	-0.73	-53.34	-40	-13.34
2	177.57	34.45	-58.67	1.83	-56.83	-40	-16.83
3	203.41	35.25	-60.23	4.30	-55.93	-40	-15.93
4	237.24	33.13	-62.33	3.79	-58.54	-40	-18.54
5	283.41	36.83	-58.45	3.82	-54.63	-40	-14.63
6	299.1	31.87	-63.88	3.72	-60.16	-40	-20.16
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	34.94	30.18	-42.87	-13.69	-56.56	-40	-16.56
2	173.52	32.08	-59.90	1.25	-58.65	-40	-18.65
3	209.21	35.29	-60.17	4.22	-55.95	-40	-15.95
4	236.92	31.80	-63.68	3.79	-59.88	-40	-19.88
5	297.29	31.92	-63.78	3.73	-60.05	-40	-20.05
6	498.87	31.08	-64.45	2.90	-61.55	-40	-21.55

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX High	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	158.67	35.61	-52.97	-0.74	-53.71	-40	-13.71
2	177.61	34.14	-58.99	1.84	-57.15	-40	-17.15
3	203.73	34.85	-60.63	4.29	-56.34	-40	-16.34
4	236.88	32.51	-62.97	3.79	-59.18	-40	-19.18
5	283.25	36.49	-58.79	3.82	-54.96	-40	-14.96
6	298.87	30.85	-64.89	3.72	-61.17	-40	-21.17
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	35.86	29.86	-43.52	-13.47	-56.99	-40	-16.99
2	174.05	30.78	-61.35	1.33	-60.02	-40	-20.02
3	208.78	34.85	-60.61	4.23	-56.39	-40	-16.39
4	236.98	30.99	-64.48	3.79	-60.69	-40	-20.69
5	297.13	31.53	-64.17	3.73	-60.43	-40	-20.43
6	498.3	30.29	-65.25	2.90	-62.35	-40	-22.35

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Above 1GHz Data :
LTE SC MODE
10MHz

Mode	TX Low	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7110	48.40	-53.75	4.88	-48.87	-40	-8.87
2	10665	56.30	-45.63	3.41	-42.22	-40	-2.22
3	14220	55.60	-43.28	2.52	-40.76	-40	-0.76
4	17775	55.8	-43.80	3.25	-40.54	-40	-0.54

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7110	49.6	-52.55	4.88	-47.67	-40	-7.67
2	10665	52.3	-49.63	3.41	-46.22	-40	-6.22
3	14220	55.5	-43.38	2.52	-40.86	-40	-0.86
4	17775	55.7	-43.90	3.25	-40.64	-40	-0.64

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX Middle	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7250	46.99	-55.33	4.76	-50.57	-40	-10.57
2	10875	54.84	-46.85	3.21	-43.64	-40	-3.64
3	14500	54.27	-43.85	2.97	-40.88	-40	-0.88
4	18125	54.68	-45.13	3.38	-41.75	-40	-1.75

Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7250	48.92	-53.40	4.76	-48.64	-40	-8.64
2	10875	52.08	-49.61	3.21	-46.40	-40	-6.40
3	14500	54.65	-43.47	2.97	-40.50	-40	-0.50
4	18125	54.48	-45.33	3.38	-41.95	-40	-1.95

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX High	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7390	48.11	-54.38	4.64	-49.74	-40	-9.74
2	11085	56.12	-45.41	3.21	-42.20	-40	-2.20
3	14780	53.76	-43.93	3.38	-40.55	-40	-0.55
4	18475	54.89	-45.14	3.51	-41.63	-40	-1.63
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7390	48.55	-53.94	4.64	-49.30	-40	-9.30
2	11085	51.36	-50.17	3.21	-46.96	-40	-6.96
3	14780	53.86	-43.83	3.38	-40.45	-40	-0.45
4	18475	54.71	-45.32	3.51	-41.81	-40	-1.81

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

15MHz

Mode	TX Low	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7115	52.68	-49.48	4.87	-44.61	-40	-4.61
2	10672.5	51.03	-50.89	3.41	-47.49	-40	-7.49
3	14230	53.05	-45.80	2.53	-43.27	-40	-3.27
4	17787.5	53.72	-45.88	3.26	-42.63	-40	-2.63

Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7115	52.5	-49.66	4.87	-44.79	-40	-4.79
2	10672.5	48.74	-53.18	3.41	-49.78	-40	-9.78
3	14230	52.73	-46.12	2.53	-43.59	-40	-3.59
4	17787.5	52.92	-46.68	3.26	-43.43	-40	-3.43

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX Middle	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7250	53.41	-48.91	4.76	-44.15	-40	-4.15
2	10875	51.72	-49.97	3.21	-46.76	-40	-6.76
3	14500	52.43	-45.69	2.97	-42.72	-40	-2.72
4	18125	52.47	-47.34	3.38	-43.96	-40	-3.96

Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7250	51.65	-50.67	4.76	-45.91	-40	-5.91
2	10875	48.88	-52.81	3.21	-49.60	-40	-9.60
3	14500	52.91	-45.21	2.97	-42.24	-40	-2.24
4	18125	53.53	-46.28	3.38	-42.90	-40	-2.90

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX High	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7385	52.82	-49.66	4.64	-45.02	-40	-5.02
2	11077.5	50.97	-50.49	3.02	-47.48	-40	-7.48
3	14770	52.14	-45.25	3.40	-41.85	-40	-1.85
4	18462.5	53.16	-46.86	3.51	-43.35	-40	-3.35
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7385	51.81	-50.67	4.64	-46.03	-40	-6.03
2	11077.5	49.8	-51.66	3.02	-48.65	-40	-8.65
3	14770	52.77	-44.62	3.40	-41.22	-40	-1.22
4	18462.5	53.89	-46.13	3.51	-42.62	-40	-2.62

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

20MHz

Mode	TX Low	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7120	53.64	-48.52	4.87	-43.66	-40	-3.66
2	10680	52.02	-49.89	3.40	-46.50	-40	-6.50
3	14240	53.59	-45.23	2.55	-42.68	-40	-2.68
4	17800	53.91	-45.70	3.26	-42.44	-40	-2.44

Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7120	52.58	-49.58	4.87	-44.72	-40	-4.72
2	10680	49.93	-51.98	3.40	-48.59	-40	-8.59
3	14240	53.4	-45.42	2.55	-42.87	-40	-2.87
4	17800	54.29	-45.32	3.26	-42.06	-40	-2.06

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX Middle	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7250	54.51	-47.81	4.76	-43.05	-40	-3.05
2	10875	51.76	-49.93	3.21	-46.72	-40	-6.72
3	14500	52.91	-45.21	2.97	-42.24	-40	-2.24
4	18125	53.79	-46.02	3.38	-42.64	-40	-2.64
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7250	53.46	-48.86	4.76	-44.10	-40	-4.10
2	10875	51.02	-50.67	3.21	-47.46	-40	-7.46
3	14500	53.21	-44.91	2.97	-41.94	-40	-1.94
4	18125	53.62	-46.19	3.38	-42.81	-40	-2.81

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX High	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7380	55.10	-47.38	4.65	-42.73	-40	-2.73
2	11070	52.40	-49.14	3.19	-45.95	-40	-5.95
3	14760	53.90	-43.82	3.35	-40.47	-40	-0.47
4	18450	54.6	-45.41	3.50	-41.91	-40	-1.91
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7380	54	-48.48	4.65	-43.83	-40	-3.83
2	11070	51.1	-50.44	3.19	-47.25	-40	-7.25
3	14760	53.8	-43.92	3.35	-40.57	-40	-0.57
4	18450	54.5	-45.51	3.50	-42.01	-40	-2.01

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

LTE MC MODE
2-Carriers (20MHz+20MHz)

Mode	TX Low	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7140	54.50	-47.69	4.85	-42.84	-40	-2.84
2	10710	51.24	-50.64	3.37	-47.27	-40	-7.27
3	14280	53.86	-44.85	2.61	-42.24	-40	-2.24
4	17850	54.46	-45.18	3.28	-41.90	-40	-1.90
Antenna Polarity & Test Distance: Vertical at 3 M							
No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7140	53.16	-49.03	4.85	-44.18	-40	-4.18
2	10710	50.11	-51.77	3.37	-48.40	-40	-8.40
3	14280	52.78	-45.93	2.61	-43.32	-40	-3.32
4	17850	54.05	-45.59	3.28	-42.31	-40	-2.31

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX Middle	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7250	54.70	-47.62	4.76	-42.86	-40	-2.86
2	10875	51.74	-49.95	3.21	-46.74	-40	-6.74
3	14500	53.15	-44.97	2.97	-42.00	-40	-2.00
4	18125	53.85	-45.96	3.38	-42.58	-40	-2.58

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7250	52.57	-49.75	4.76	-44.99	-40	-4.99
2	10875	50.04	-51.65	3.21	-48.44	-40	-8.44
3	14500	53.73	-44.39	2.97	-41.42	-40	-1.42
4	18125	54.35	-45.46	3.38	-42.08	-40	-2.08

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

Mode	TX High	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7360	54.38	-48.07	4.66	-43.41	-40	-3.41
2	11040	52.30	-49.20	3.05	-46.15	-40	-6.15
3	14720	53.10	-44.43	3.32	-41.10	-40	-1.10
4	18400	54.14	-45.84	3.48	-42.36	-40	-2.36

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	7360	53.9	-48.55	4.66	-43.89	-40	-3.89
2	11040	49.88	-51.62	3.05	-48.57	-40	-8.57
3	14720	52.78	-44.75	3.32	-41.42	-40	-1.42
4	18400	53.96	-46.02	3.48	-42.54	-40	-2.54

Remarks:

1. Emission Value (dBm) = S.G Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = Substitution Antenna Gain (dB) + Cable Loss (dB).

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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