



## 5. Band Edge

### 1.5.1 Requirement

According to FCC section 24.238 and 27.53(g) (h) and 27.53(m)(4), for operations in the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log(P)$  dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

(m)(4) For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log(P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log(P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log(P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than  $43 + 10 \log(P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log(P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

(h) For operations in the 1710–1755 MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log_{10}(P)$  dB.

### 1.5.2 Test Description

See section 2.1.2 of this report.

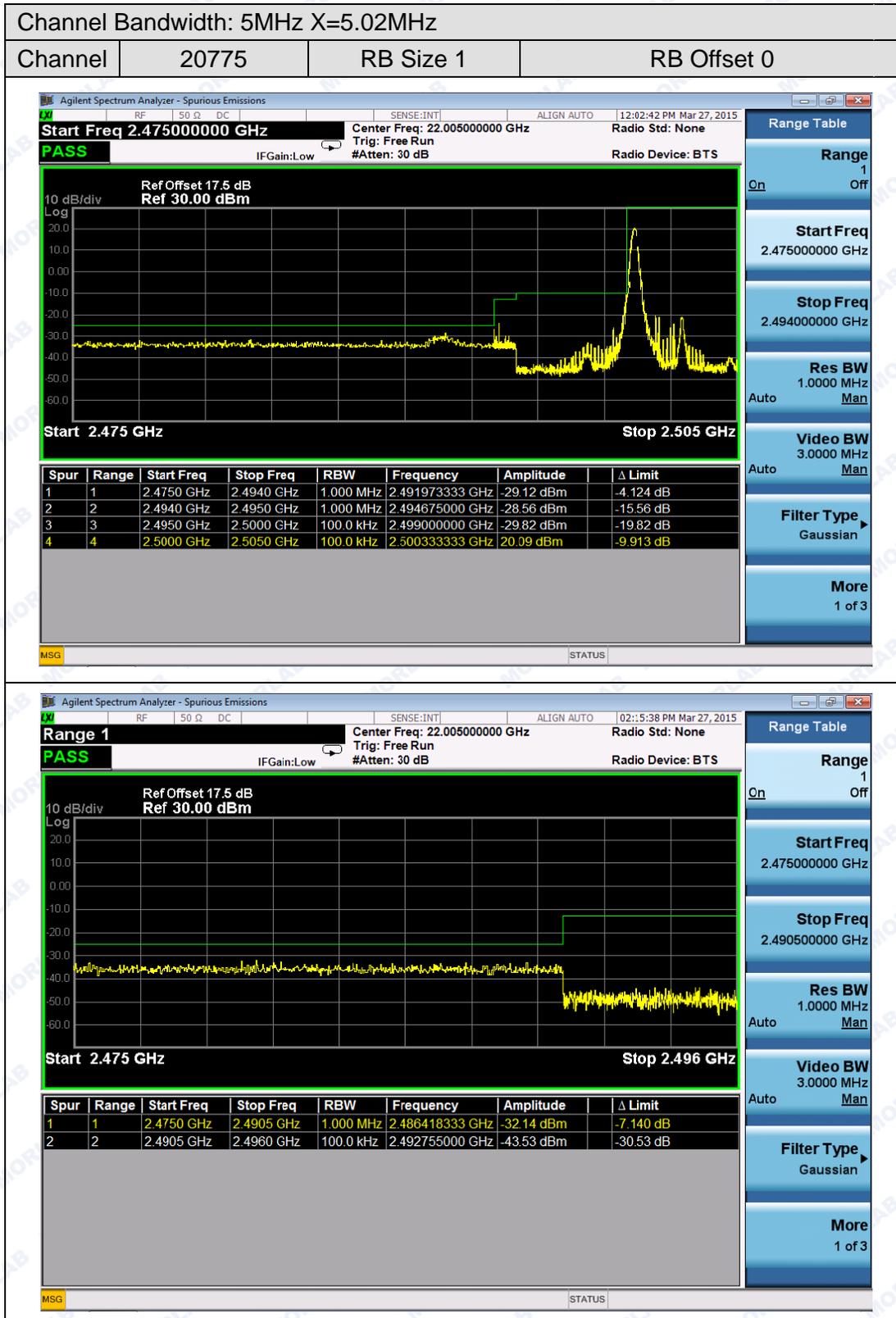
### 1.5.3 Test Result

The center frequency of spectrum is the band edge frequency and span is 2MHz, Record the max trace into the test report.

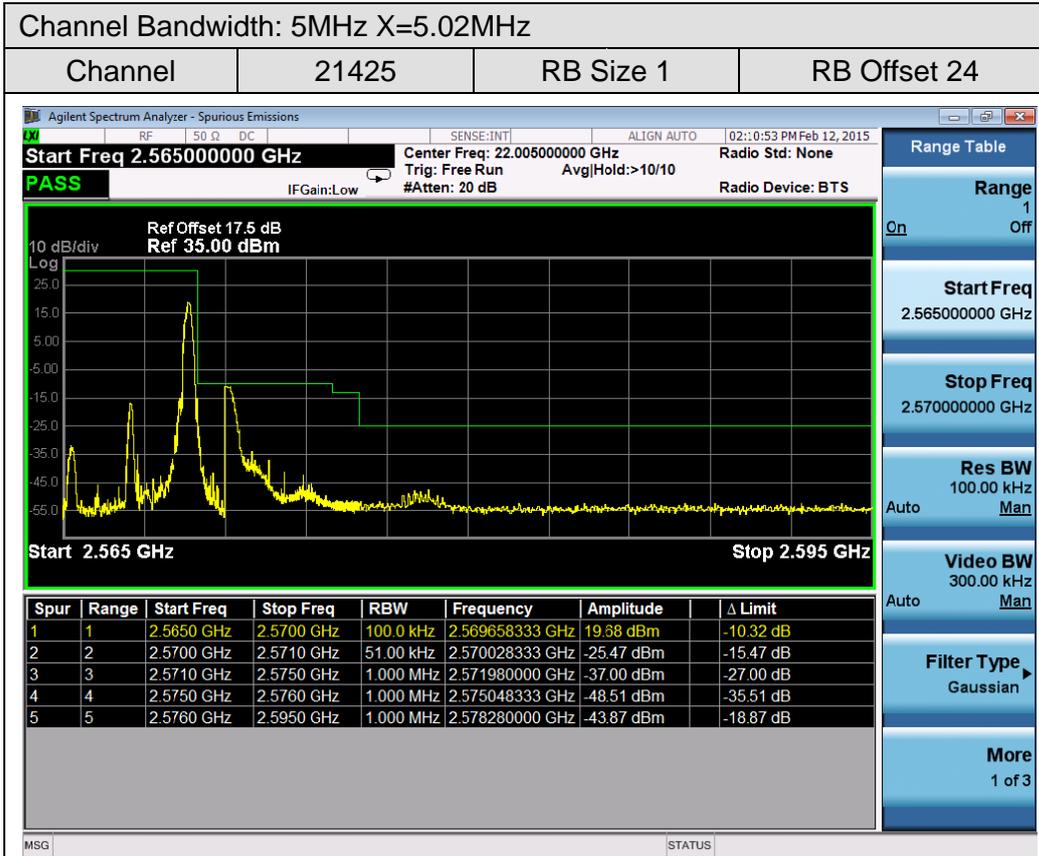
PASS. See the attached plots.

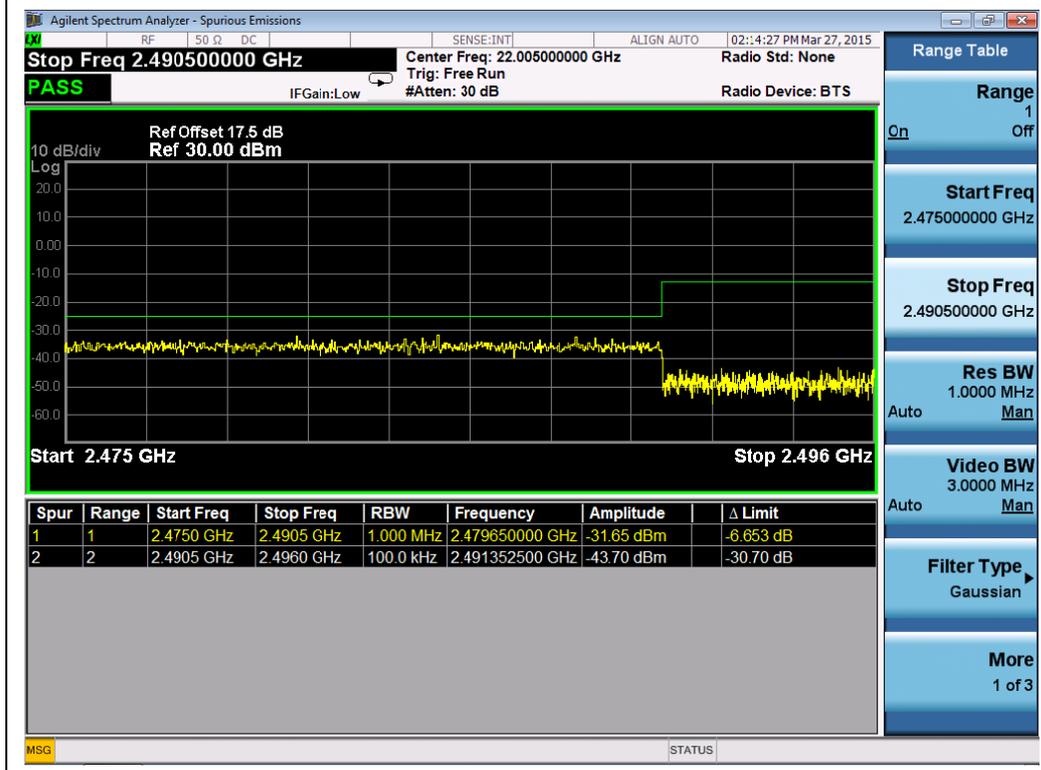
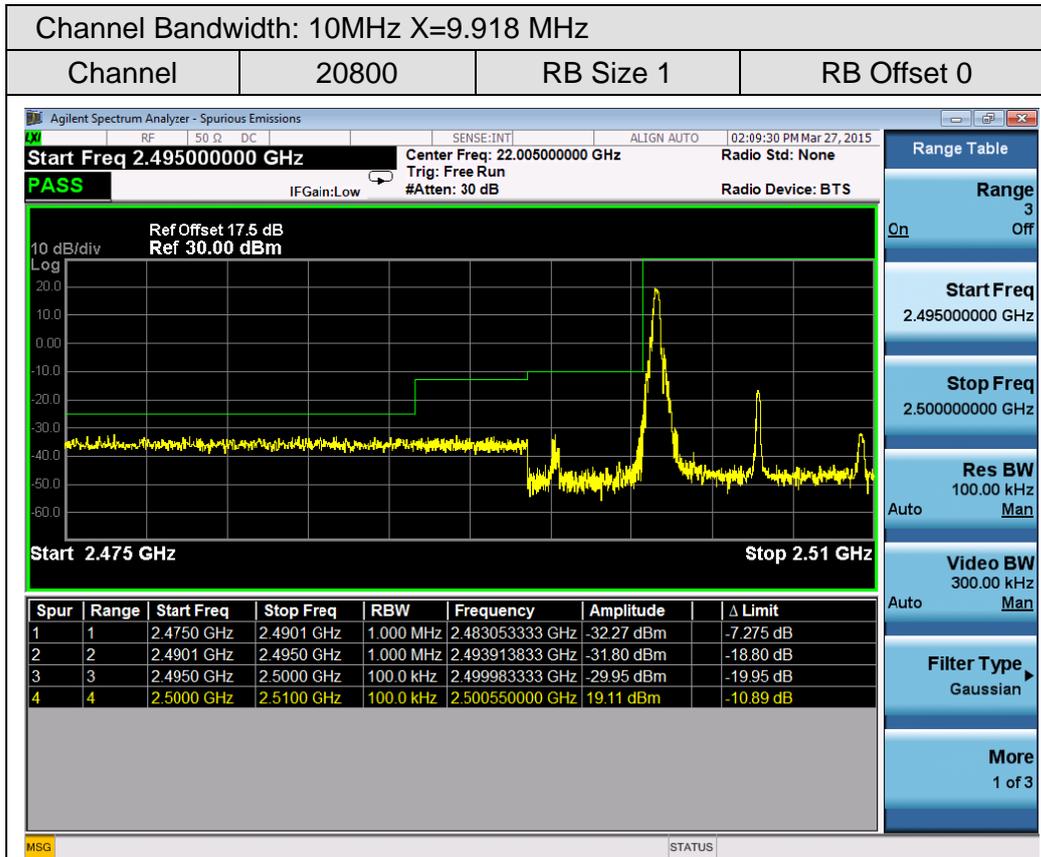


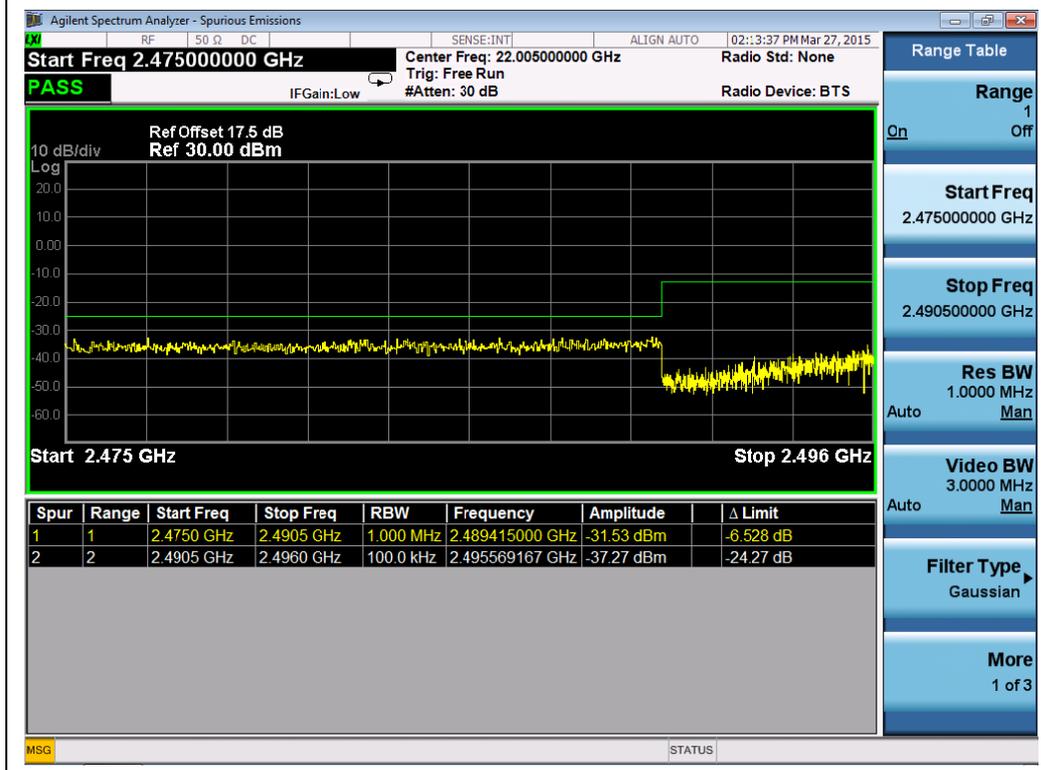
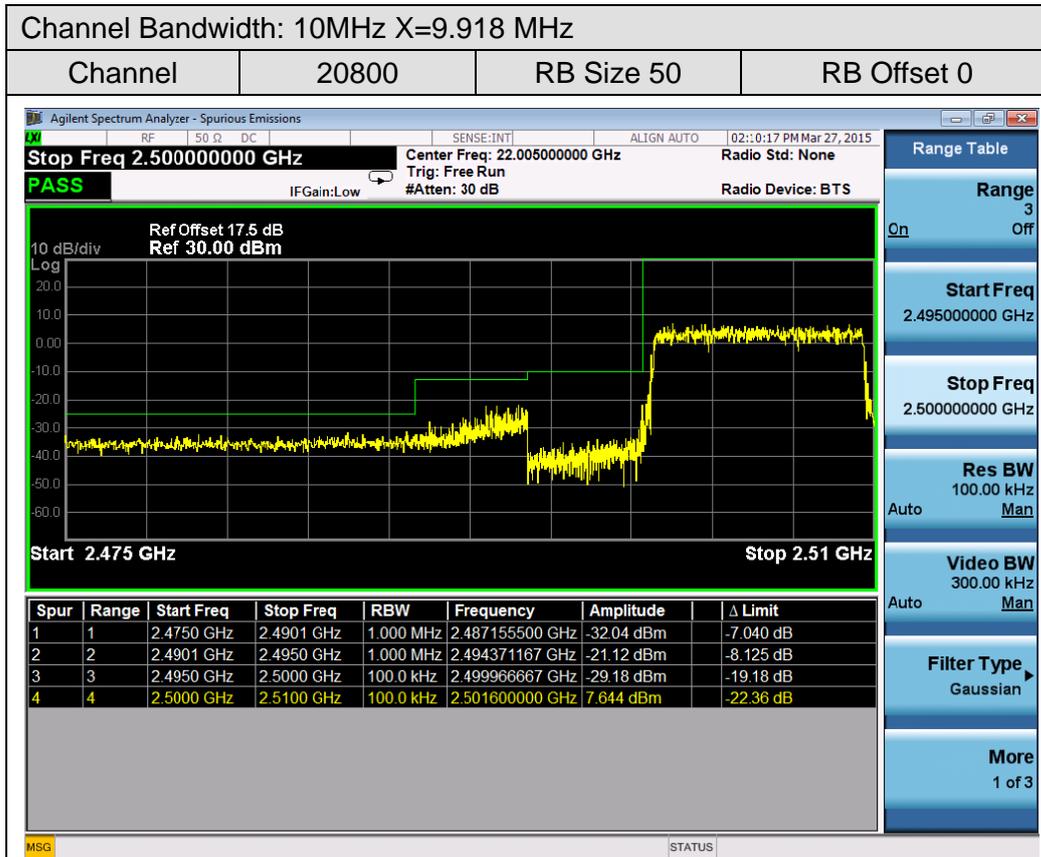
LTE Band 7:

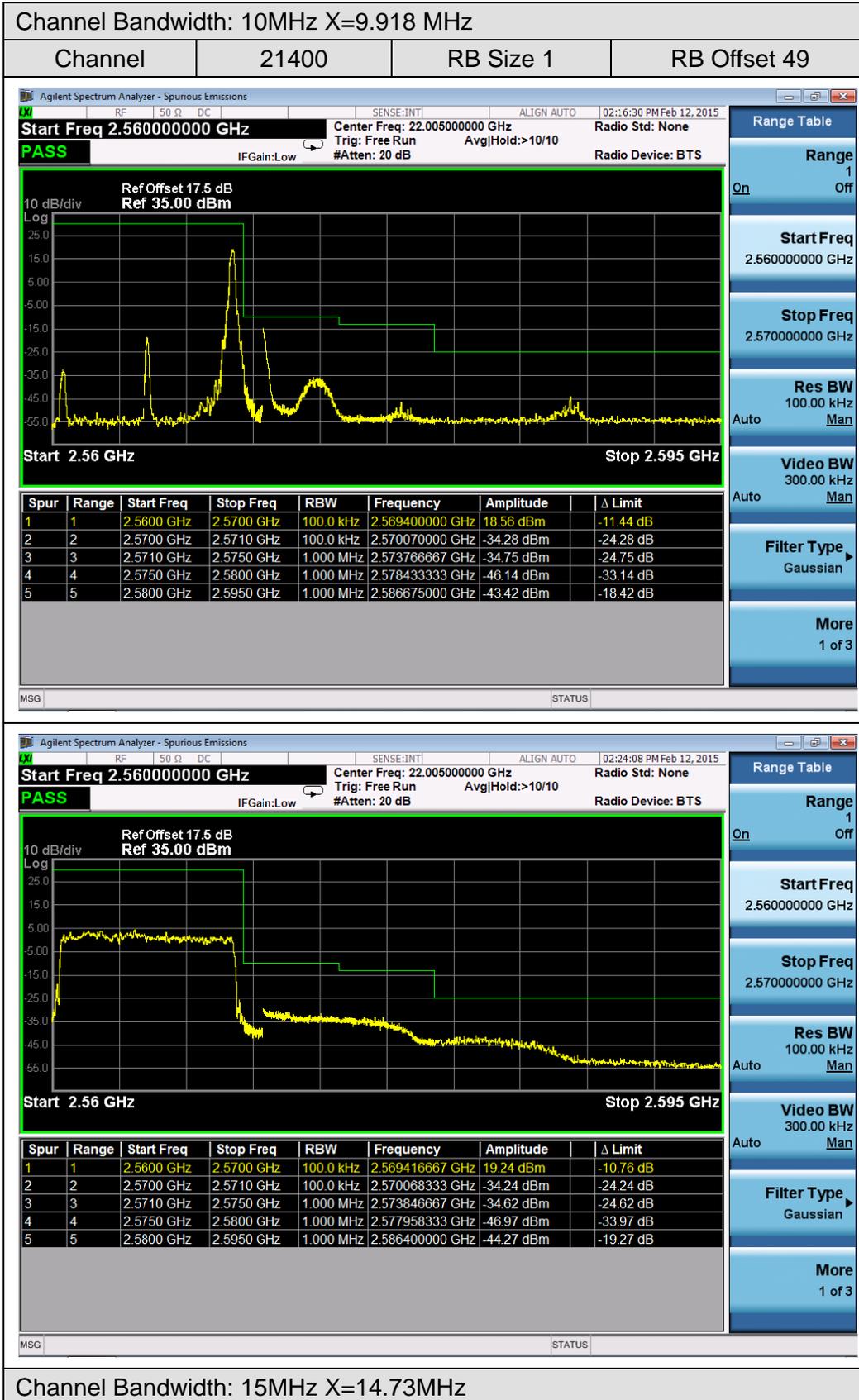


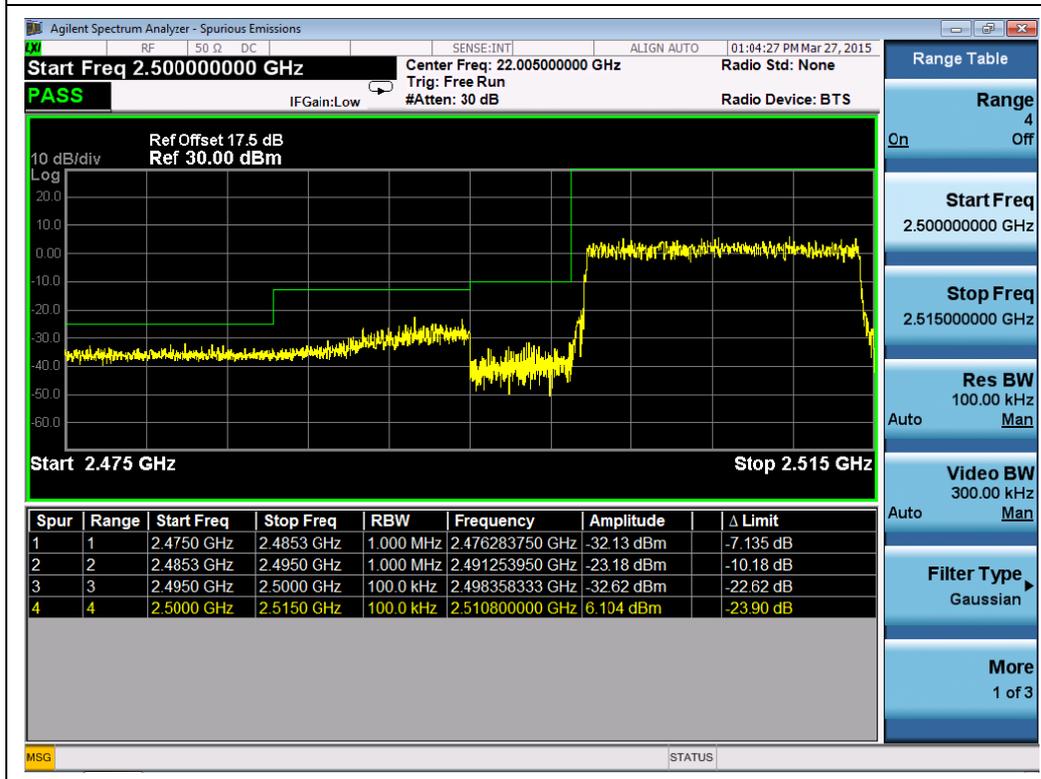
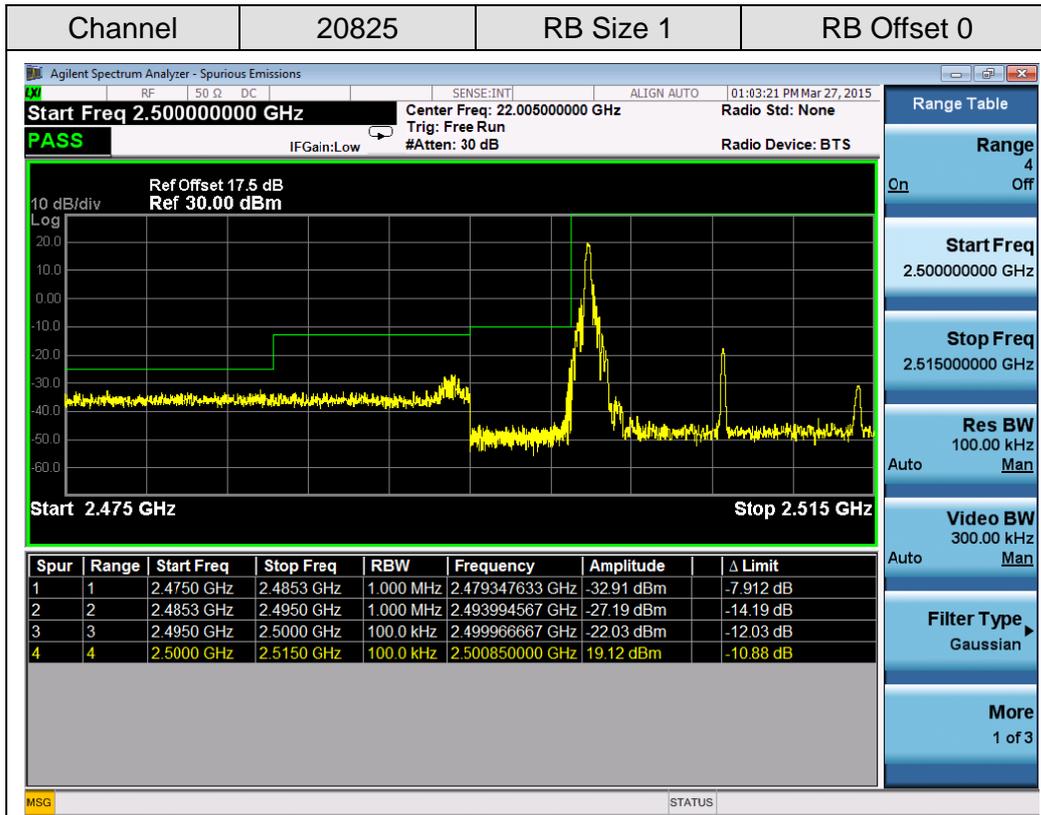


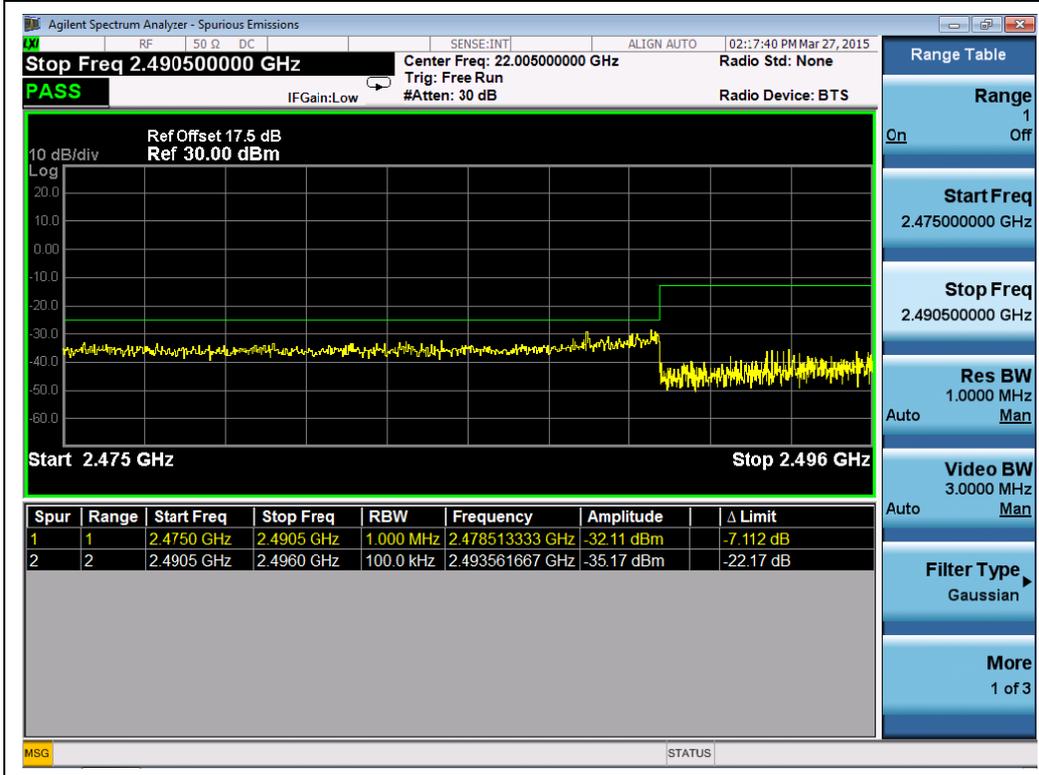
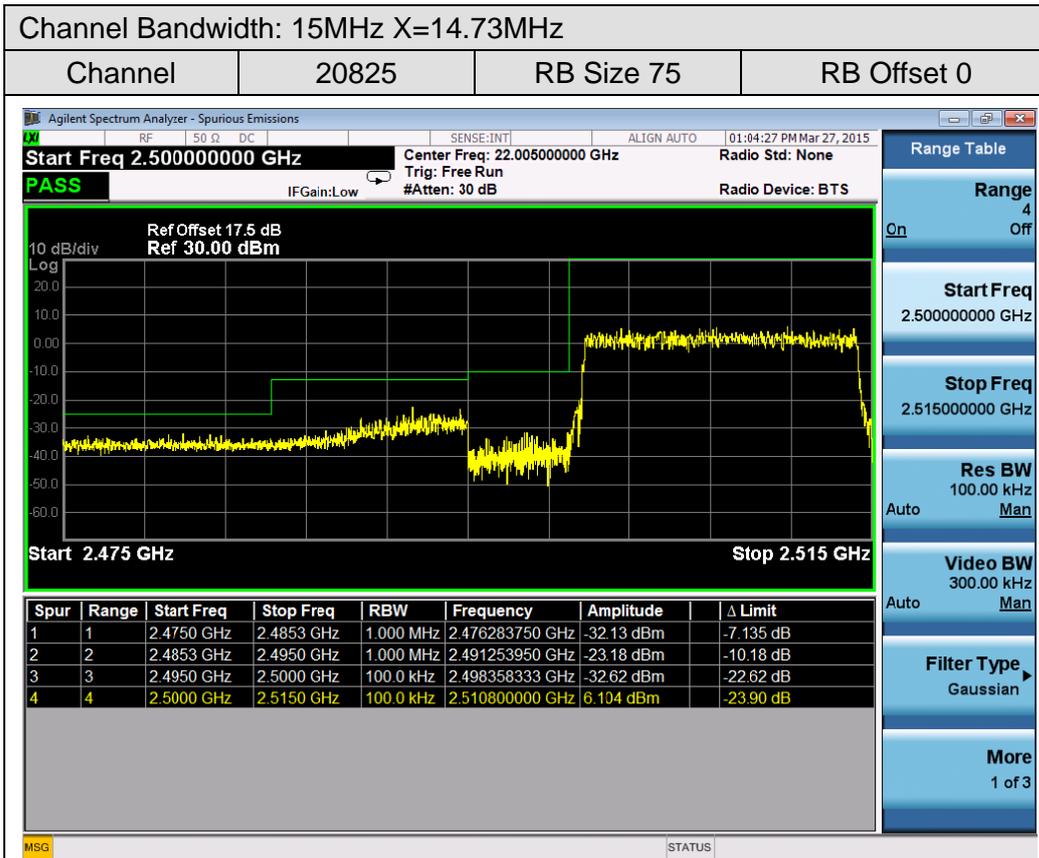


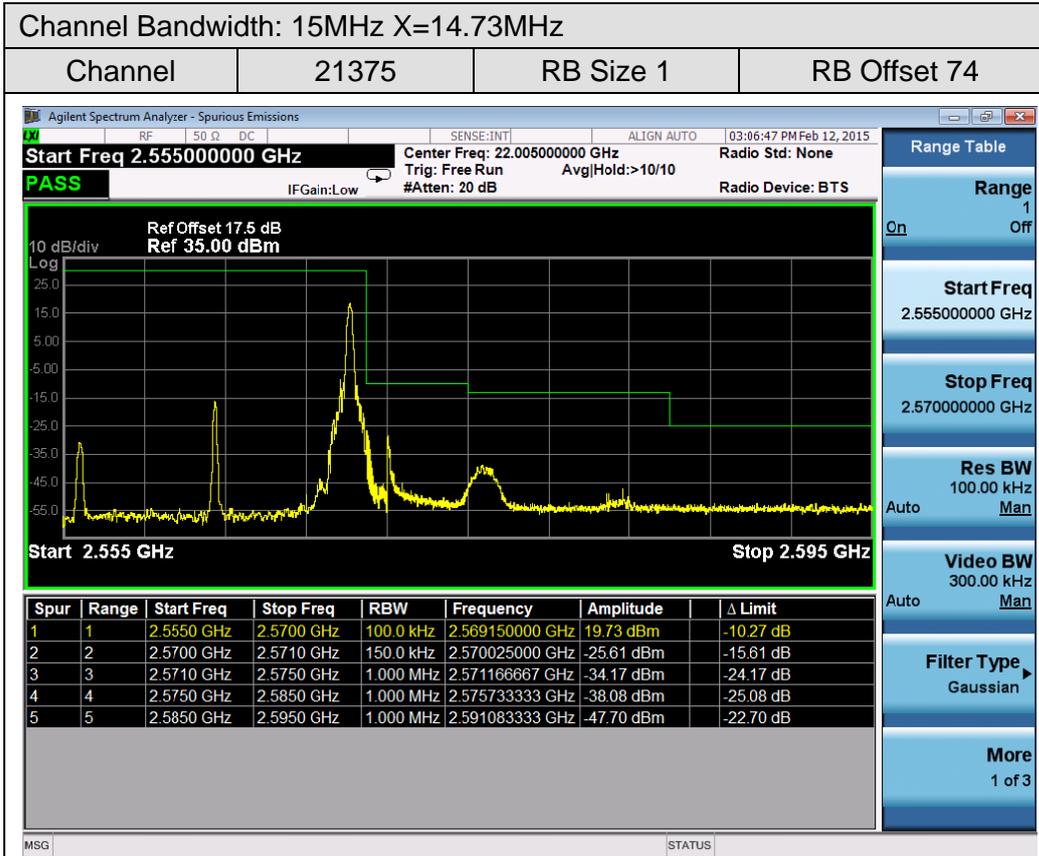


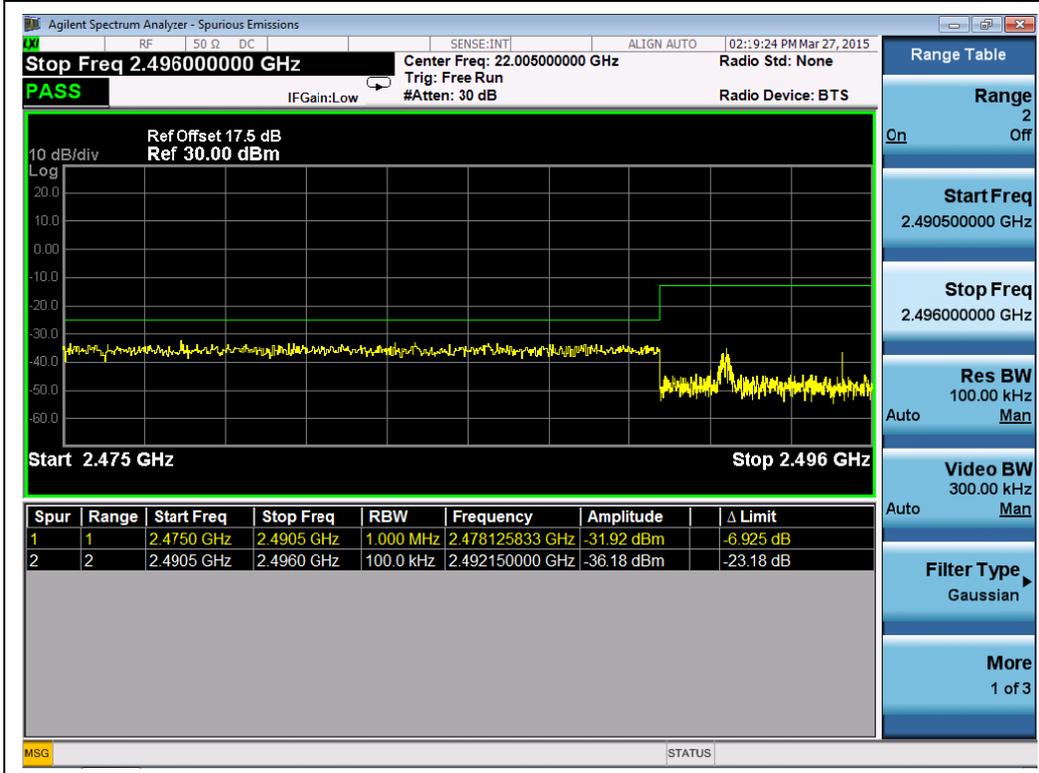
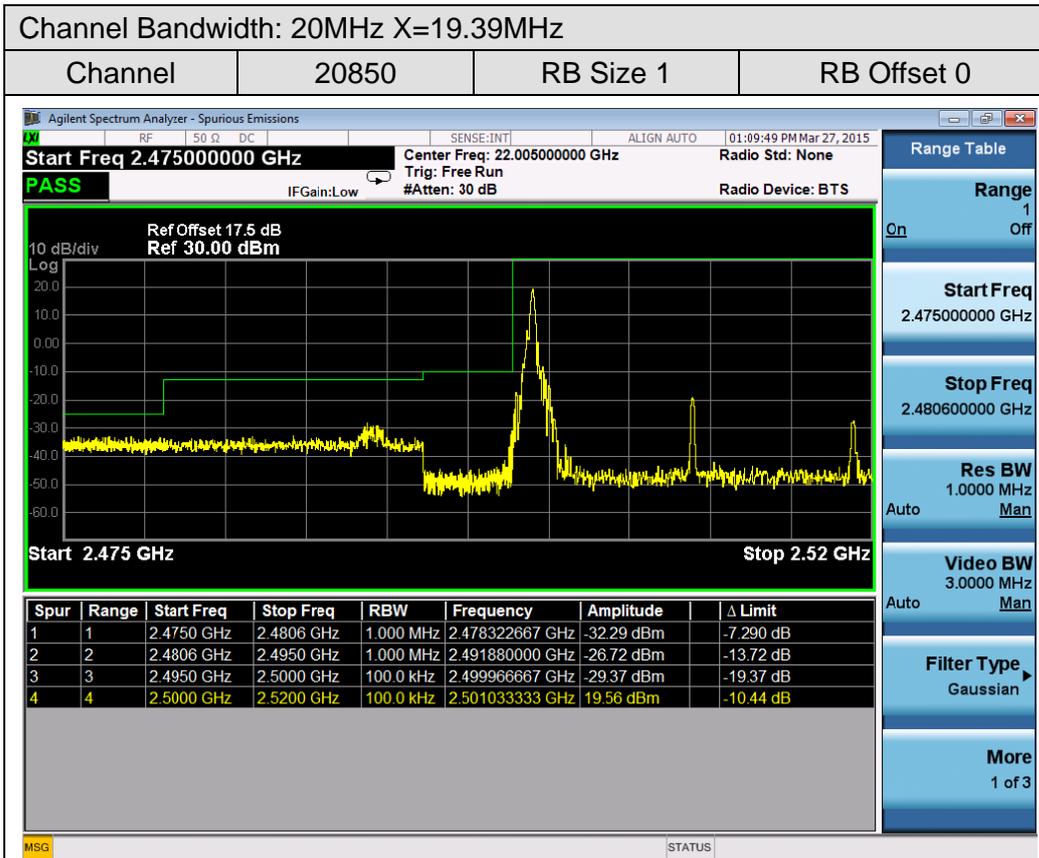


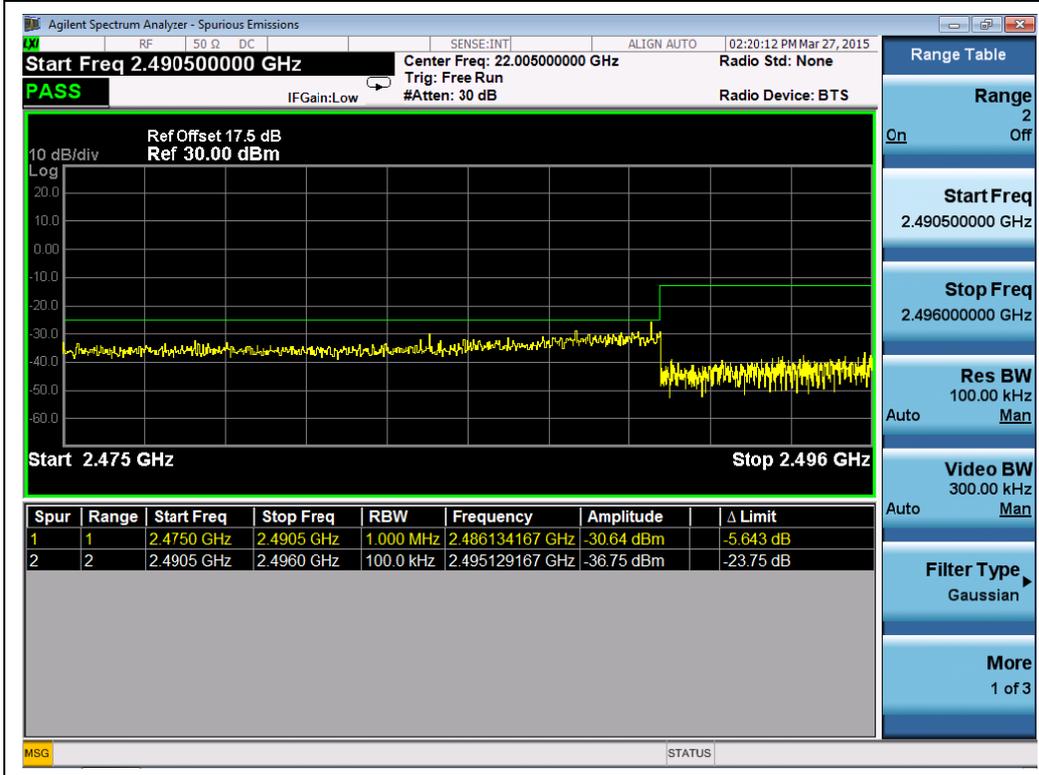
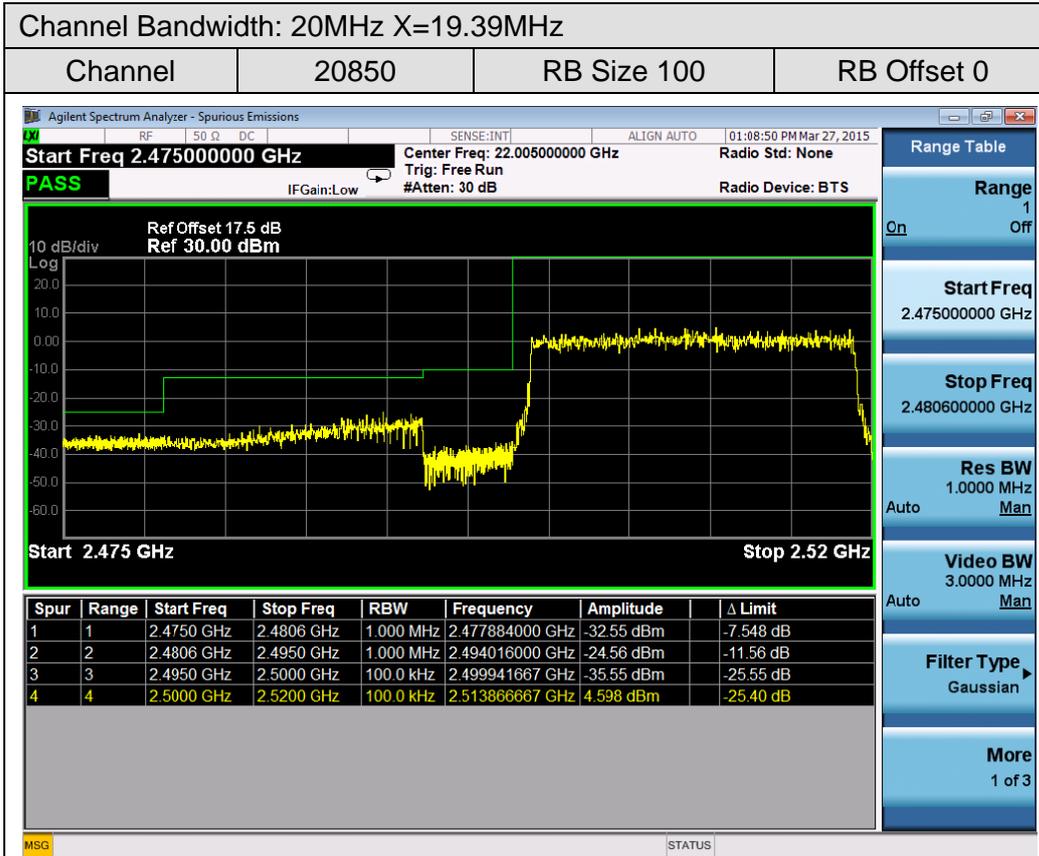


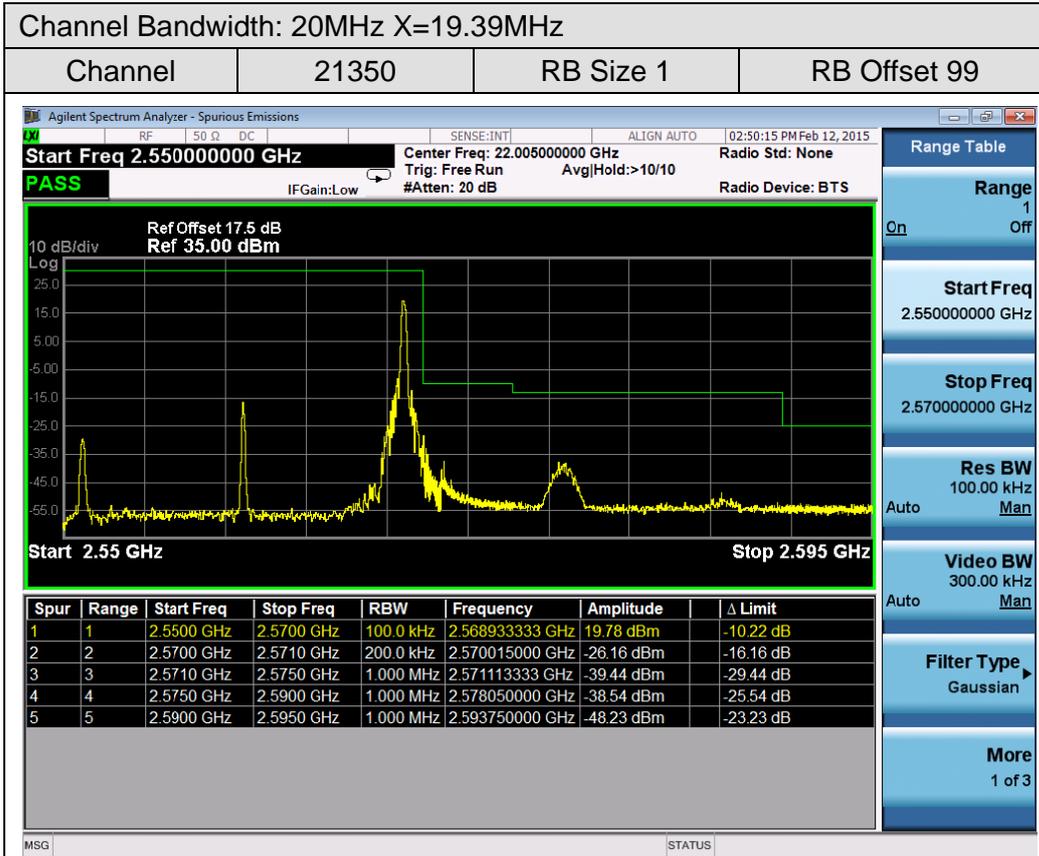








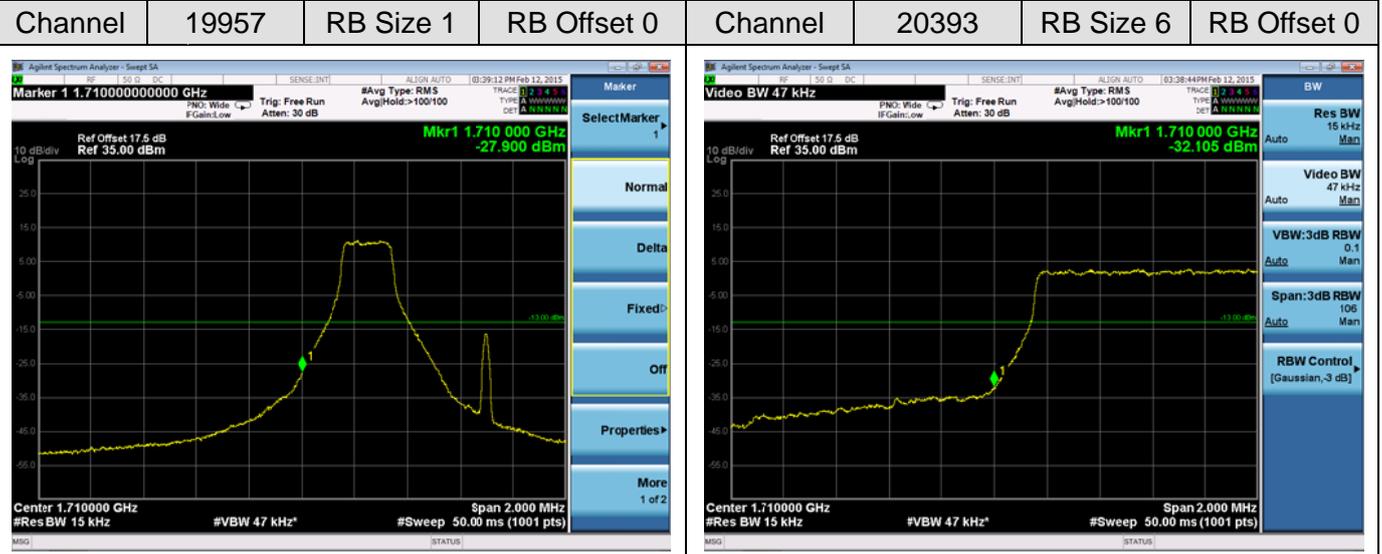




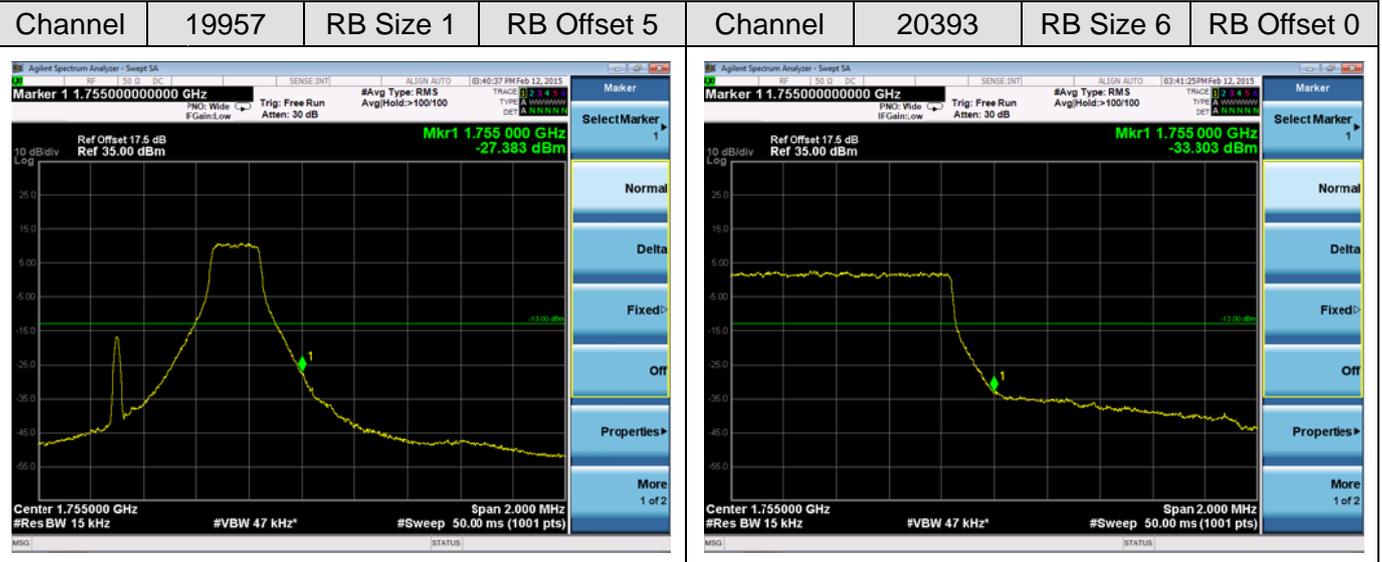


LTE Band 4:

Channel Bandwidth: 1.4MHz

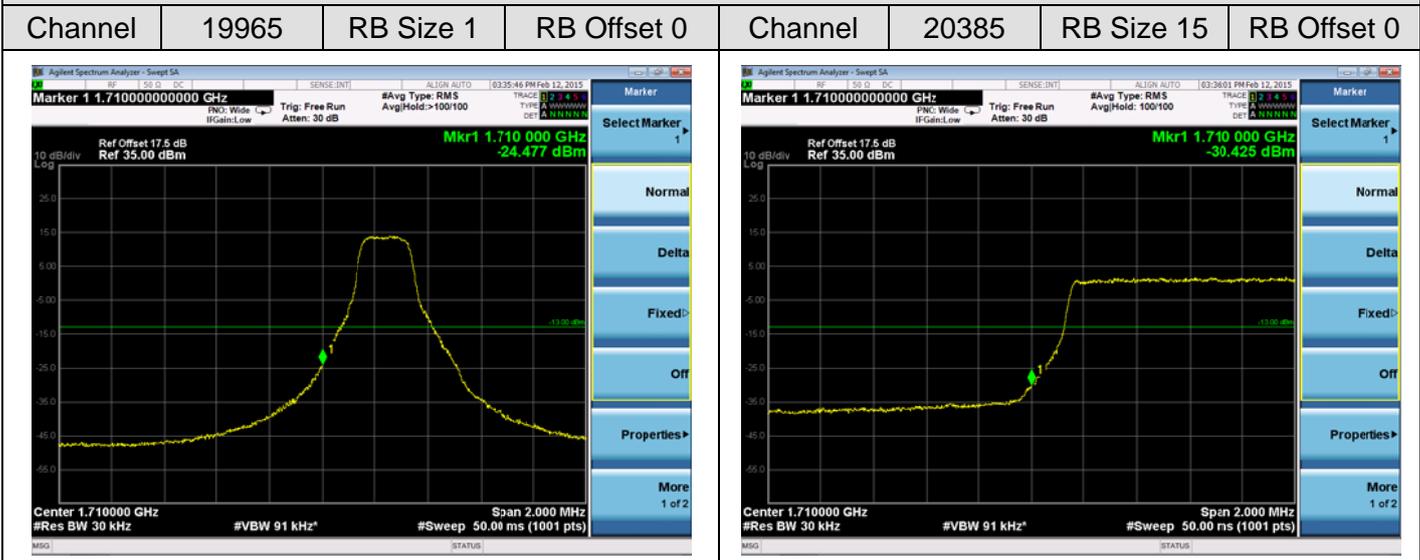


Channel Bandwidth: 1.4MHz

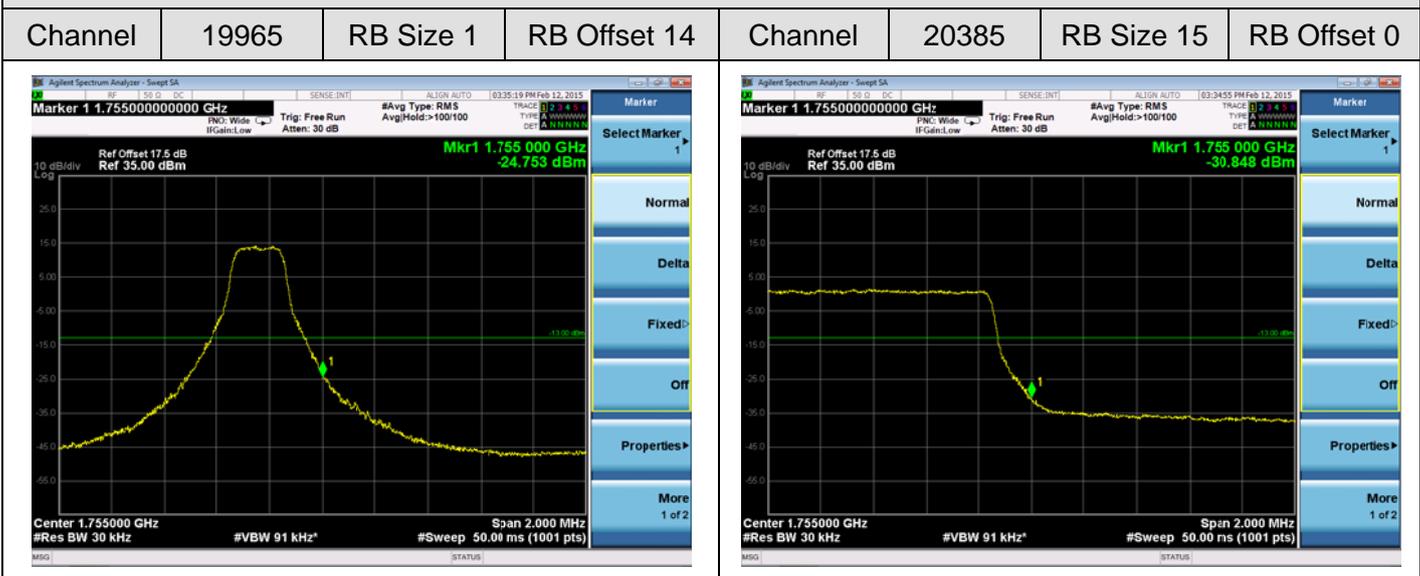




Channel Bandwidth: 3MHz

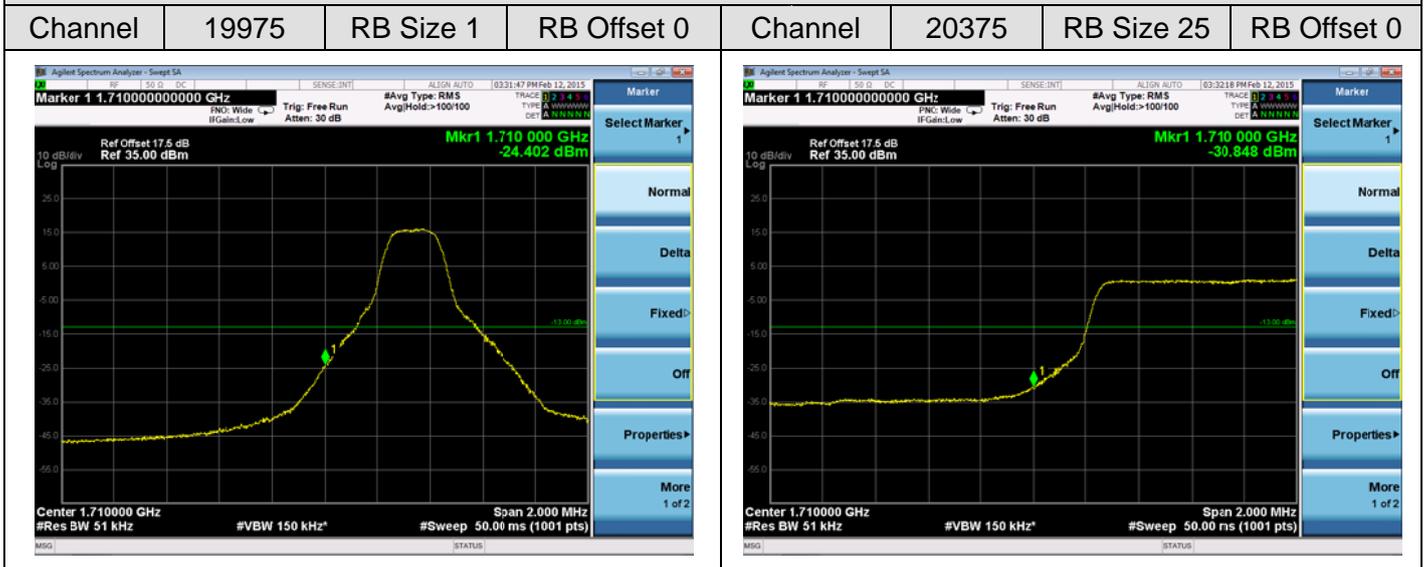


Channel Bandwidth: 3MHz

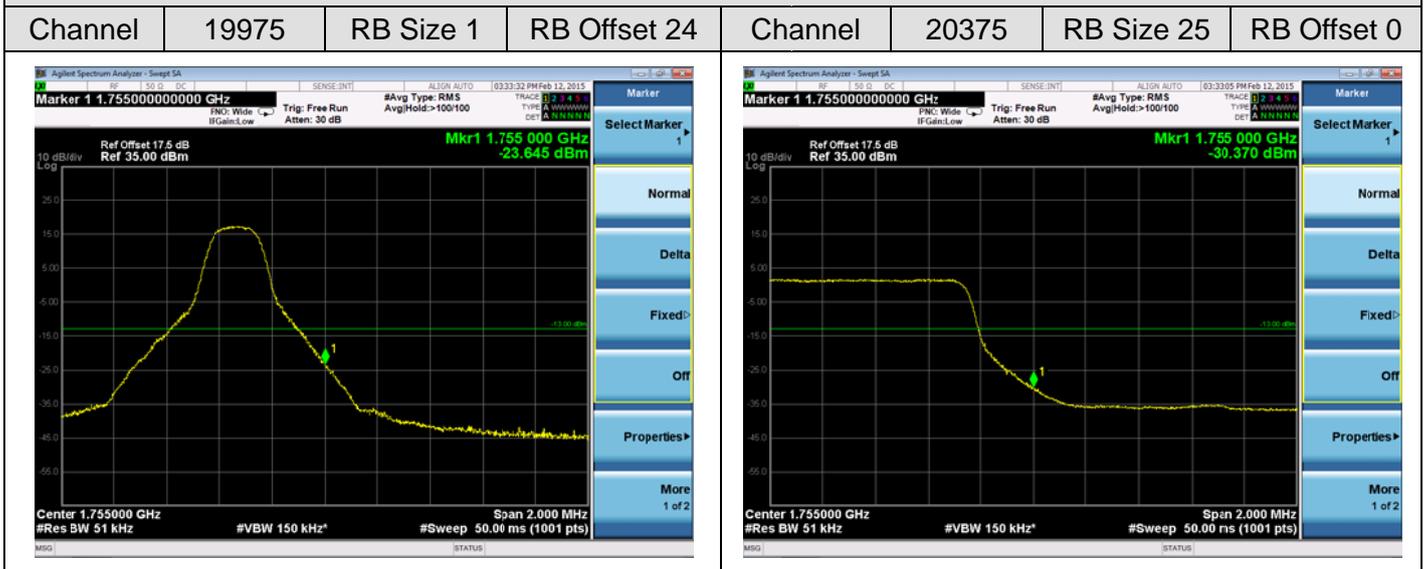




Channel Bandwidth: 5MHz



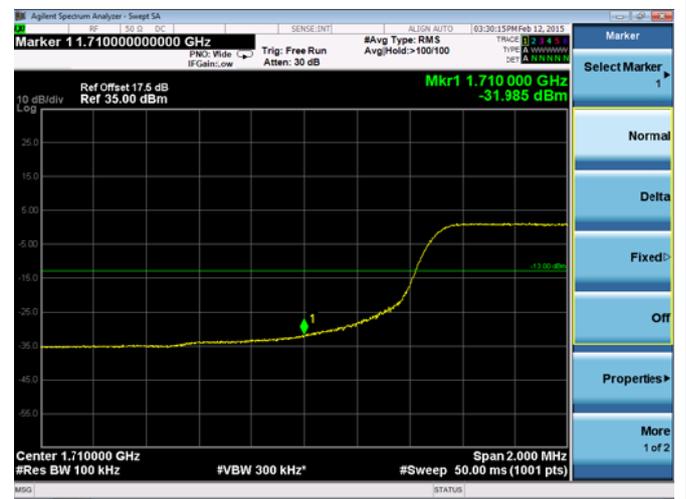
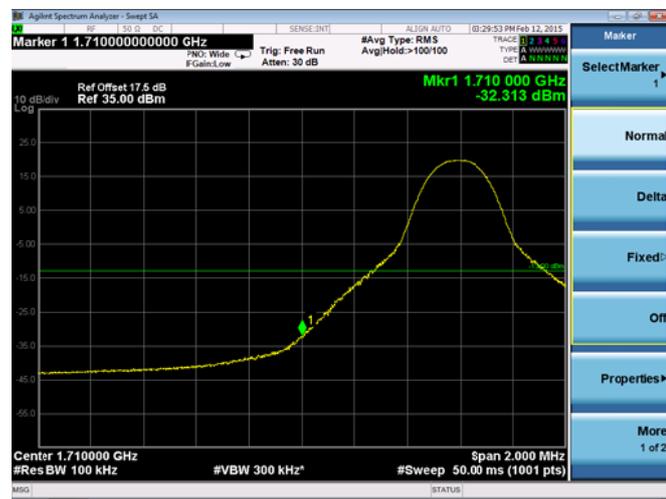
Channel Bandwidth: 5MHz





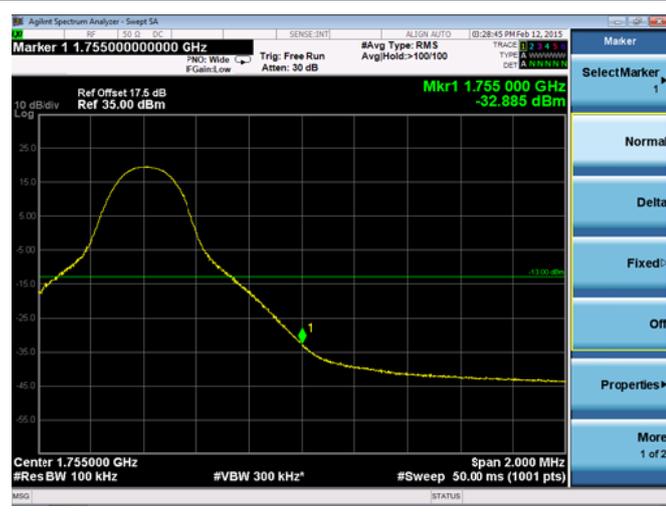
Channel Bandwidth: 10MHz

Channel	20000	RB Size 1	RB Offset 0	Channel	20350	RB Size 50	RB Offset 0
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Channel Bandwidth: 10MHz

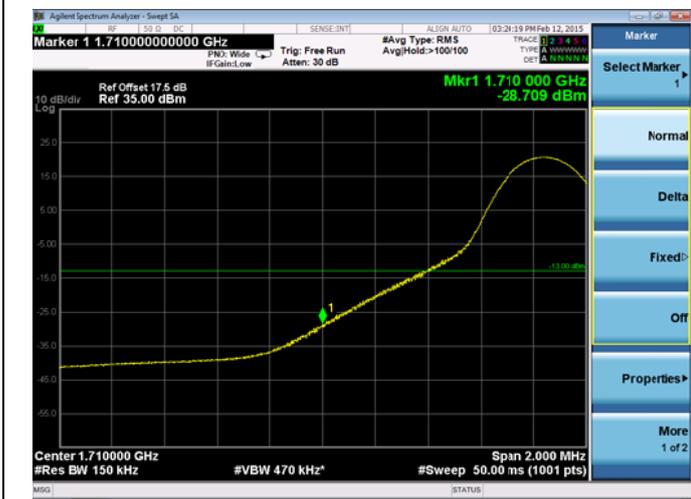
Channel	20000	RB Size 1	RB Offset 49	Channel	20350	RB Size 50	RB Offset 0
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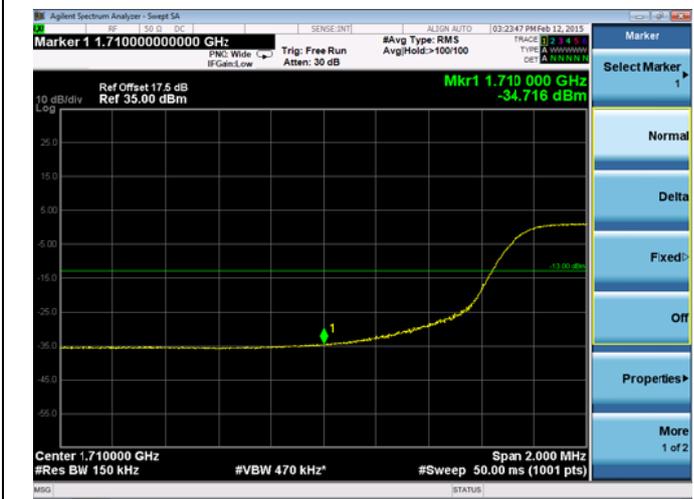


Channel Bandwidth: 15MHz

Channel	20025	RB Size 1	RB Offset 0
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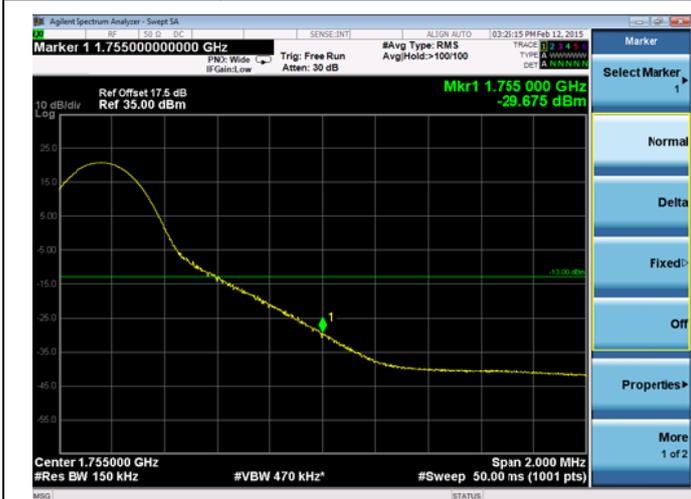


Channel	20325	RB Size 75	RB Offset 0
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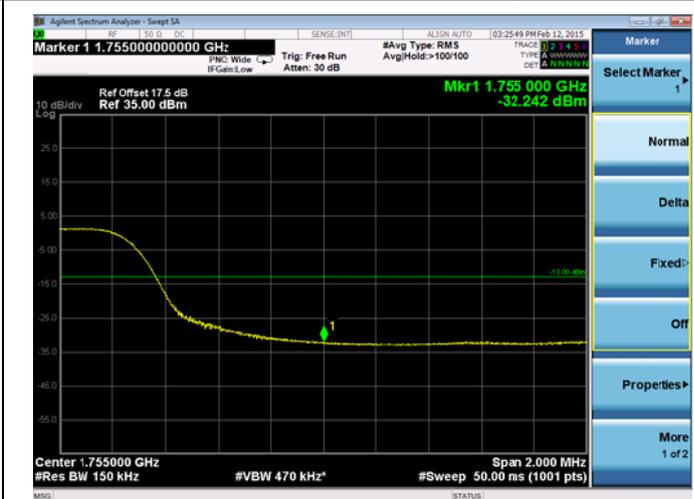


Channel Bandwidth: 15MHz

Channel	20025	RB Size 1	RB Offset 74
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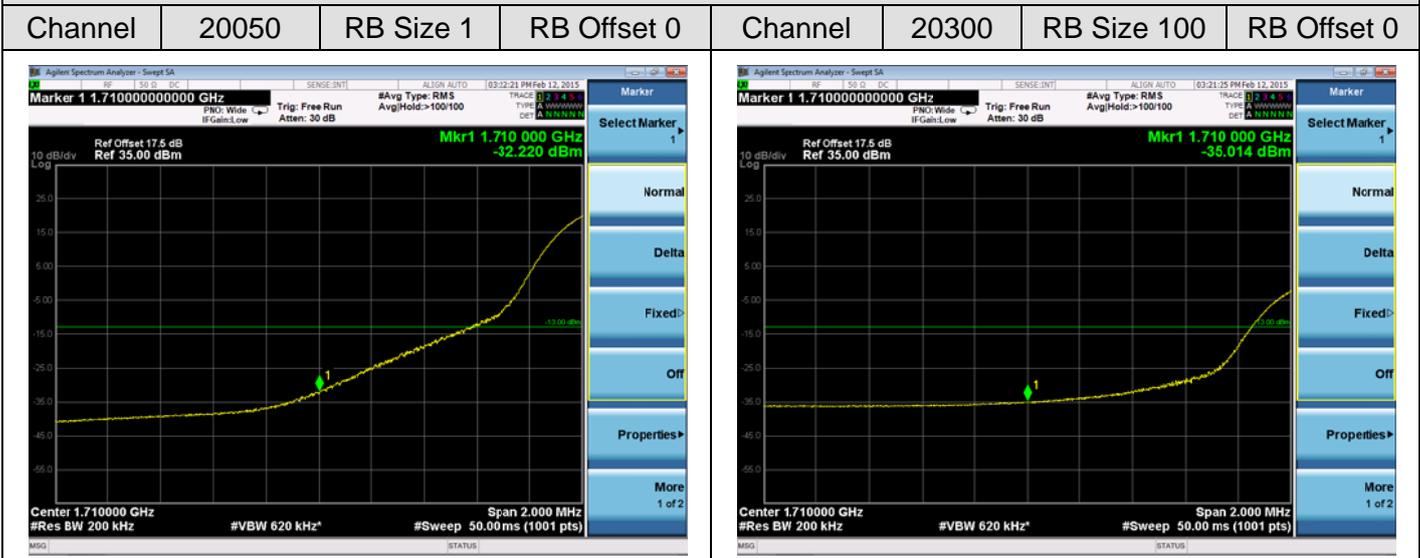


Channel	20325	RB Size 75	RB Offset 0
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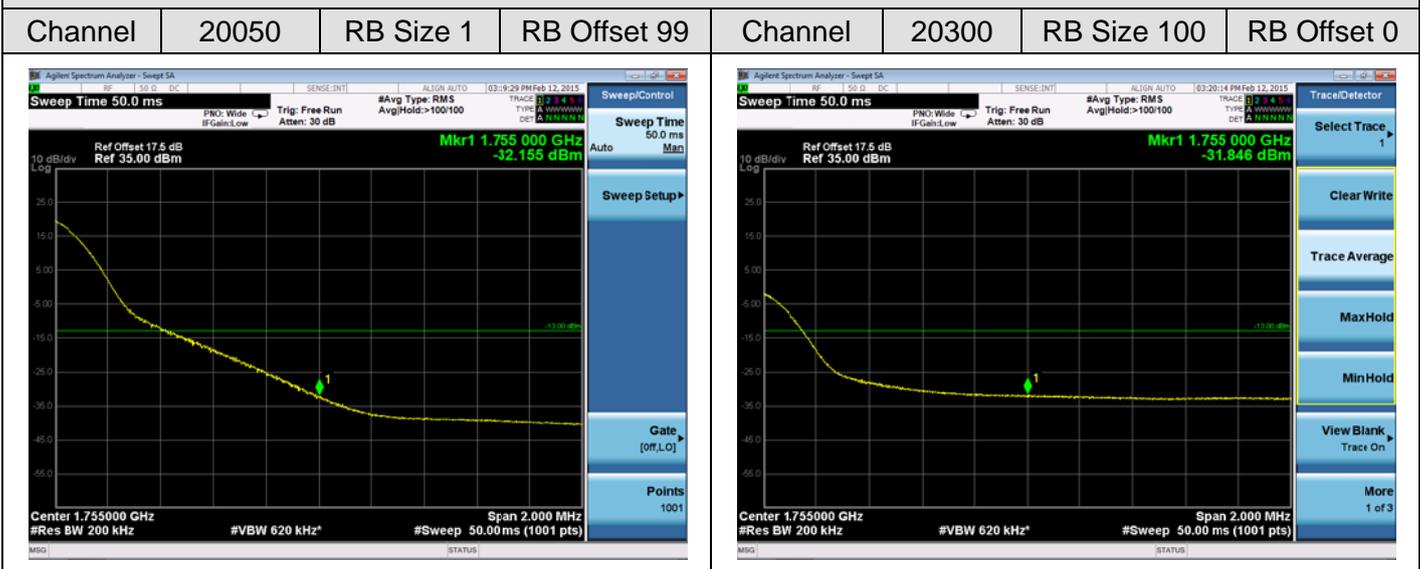




Channel Bandwidth: 20MHz



Channel Bandwidth: 20MHz





LTE Band 2:

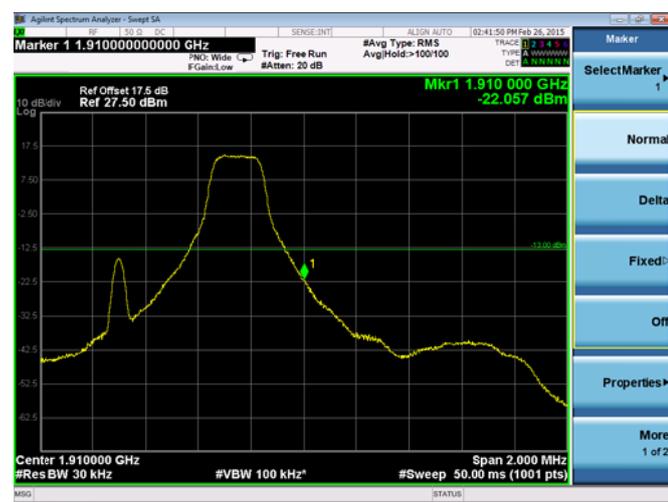
Channel Bandwidth: 1.4MHz

Channel	18607	RB Size 1	RB Offset 0	Channel	18607	RB Size 6	RB Offset 0
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Channel Bandwidth: 1.4MHz

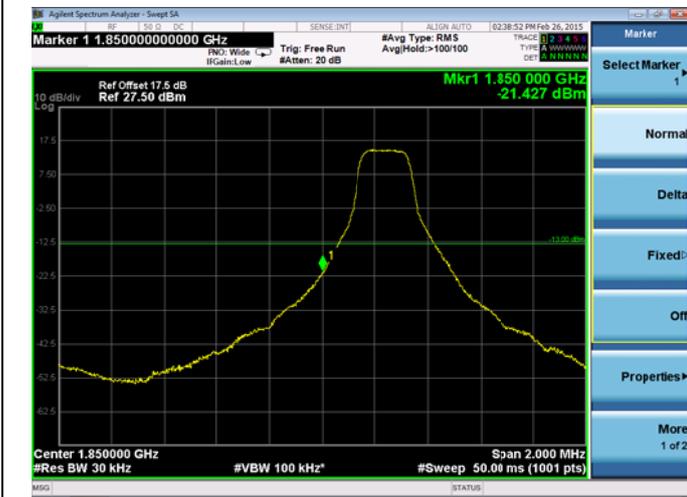
Channel	19192	RB Size 1	RB Offset 5	Channel	19192	RB Size 6	RB Offset 0
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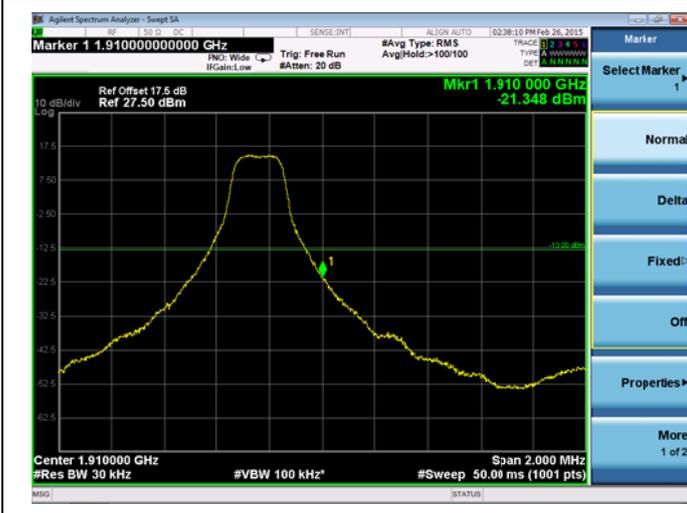
Channel Bandwidth: 3MHz

Channel	18165	RB Size 1	RB Offset 0	Channel	18165	RB Size 15	RB Offset 0
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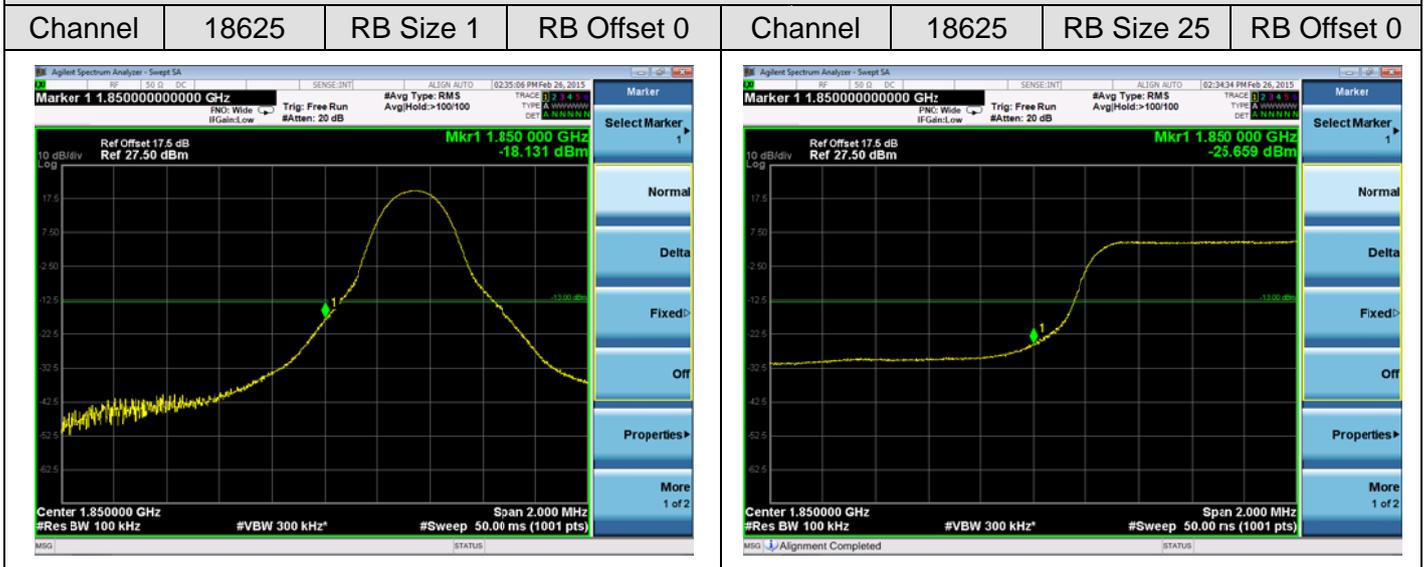
Channel Bandwidth: 3MHz

Channel	19184	RB Size 1	RB Offset 14	Channel	19184	RB Size 15	RB Offset 0
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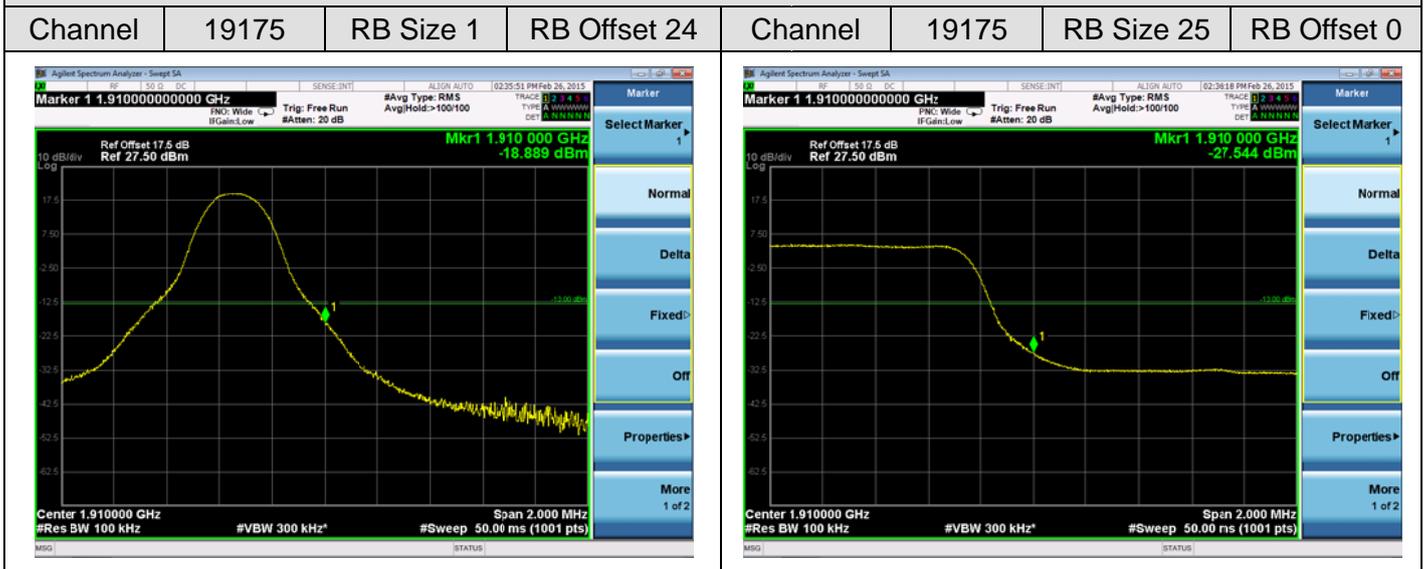




Channel Bandwidth: 5MHz



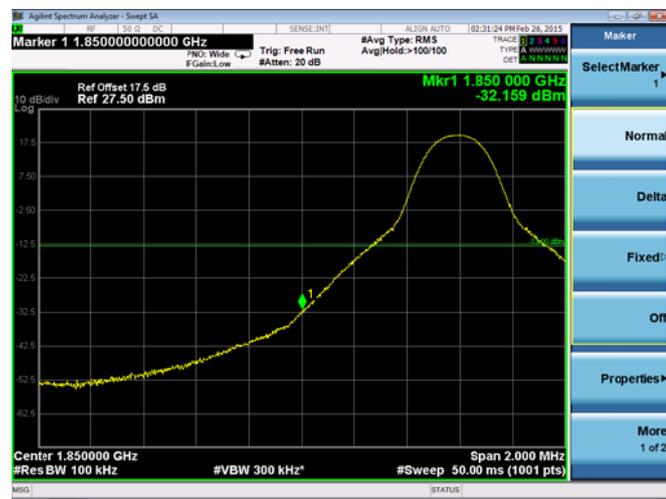
Channel Bandwidth: 5MHz





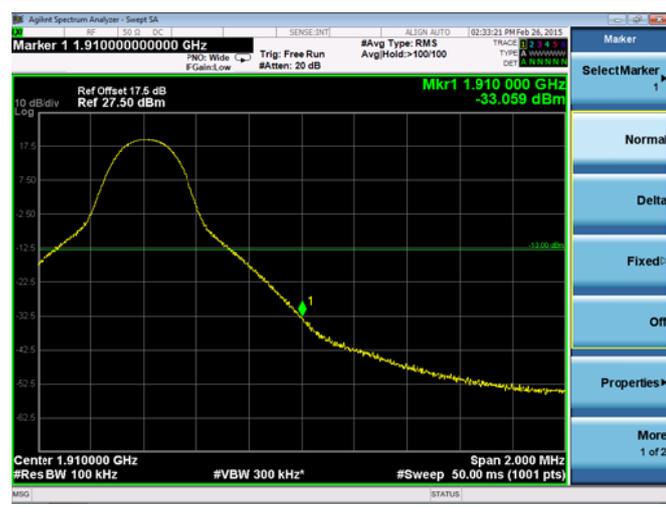
Channel Bandwidth: 10MHz

Channel	18650	RB Size 1	RB Offset 0	Channel	18650	RB Size 50	RB Offset 0
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Channel Bandwidth: 10MHz

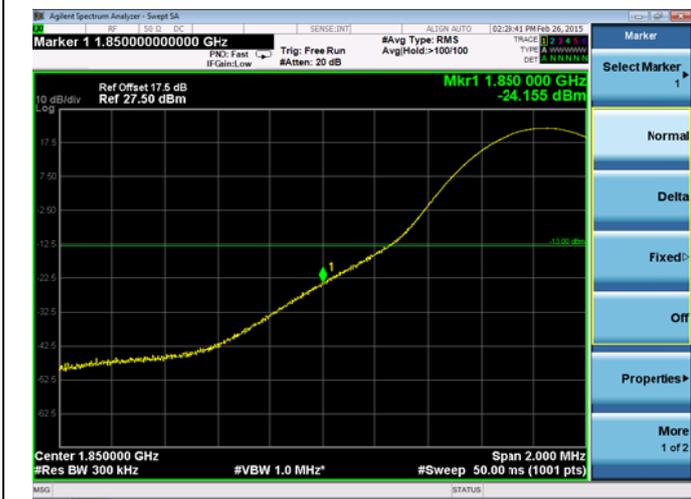
Channel	19150	RB Size 1	RB Offset 49	Channel	19150	RB Size 50	RB Offset 0
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Channel Bandwidth: 15MHz

Channel	18675	RB Size 1	RB Offset 0
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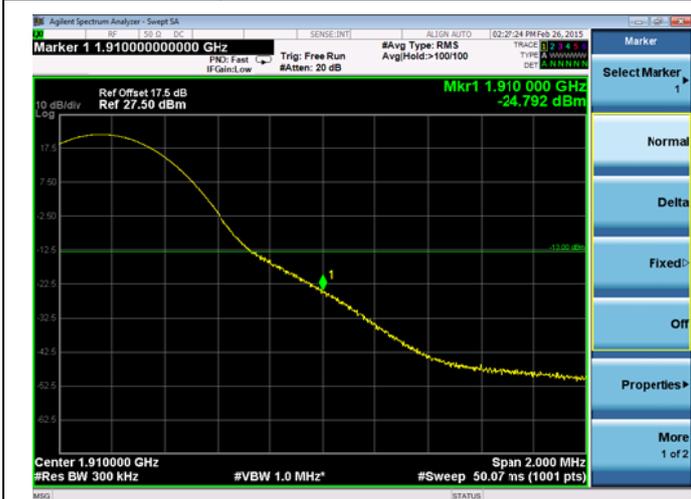


Channel	18675	RB Size 75	RB Offset 0
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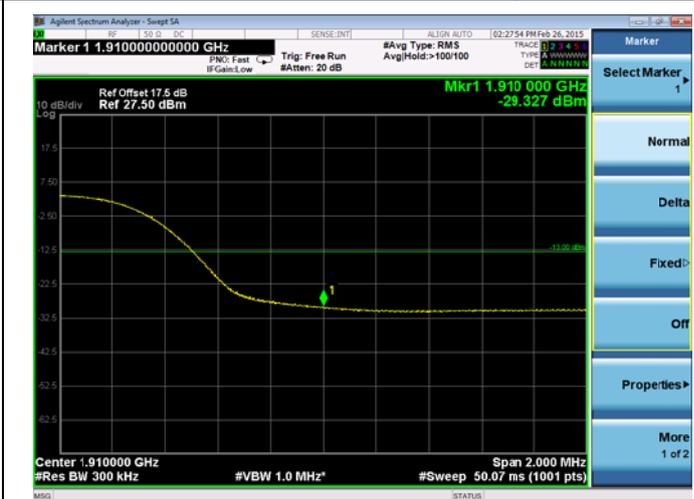


Channel Bandwidth: 15MHz

Channel	19125	RB Size 1	RB Offset 74
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Channel	19125	RB Size 75	RB Offset 0
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Channel Bandwidth: 20MHz

Channel	18700	RB Size 1	RB Offset 0	Channel	18700	RB Size 100	RB Offset 0
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Channel Bandwidth: 20MHz

Channel	19100	RB Size 1	RB Offset 99	Channel	19100	RB Size 100	RB Offset 0
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## 6. Transmitter Radiated Power (EIRP/ERP)

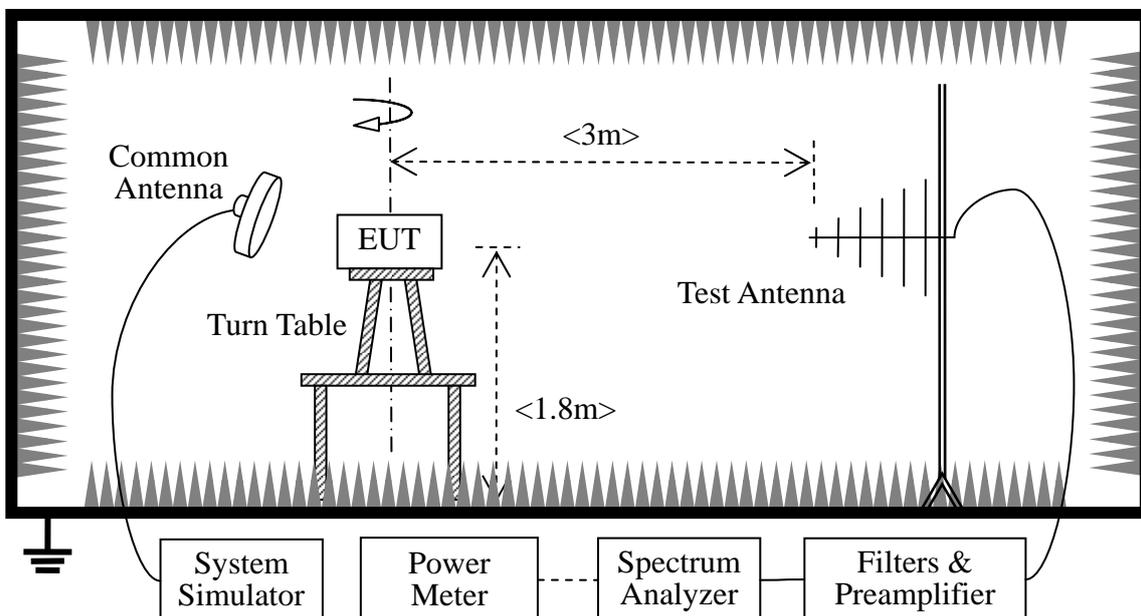
### 1.6.1 Requirement

According to FCC section 24.322 and 27.50 (d) (4), fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat EIRP.

Portable stations (hand-held devices) operating in the 704-716MHz band are limited to 3watts ERP.

### 1.6.2 Test Description

Test Setup:



The EUT, which is powered by the PC, is located in a 3m Full-Anechoic Chamber; the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading.

A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power, and only the test result of the maximum output power was recorded.

The Test Antenna is a Bi-Log one (used for 30MHz to 1GHz) or a Horn one (used for above 3GHz), and it's located at the same height as the EUT. The Filters consists of Notch Filters and High Pass Filter.

Equipments List:

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
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Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
System Simulator	Rohde& Schwarz	CMW500	1201.0002k50 /124534/wk	2014.02.26	2015.02.25
Spectrum Analyzer	Rohde& Schwarz	FSL	10246	2014.02.26	2015.02.25
Spectrum Analyzer	Agilent	E4445A	MY44200685	2014.02.26	2015.02.25
Full-Anechoic Chamber	Albatross	9m*6m*6m	(n.a.)	2014.02.26	2015.02.25
Test Antenna - Bi-Log	Schwarzbeck	VULB 9163	9163-274	2014.02.26	2015.02.25
Test Antenna - Horn	Schwarzbeck	BBHA 9120C	9120C-384	2014.02.26	2015.02.25

### 1.6.3 Test Result

The EUT was verified under all configurations (RB size and offset) and the worst case radiated power reported for each modulation/channel bandwidth.

The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST\_TX}} - P_{\text{SUBST\_RX}} - L_{\text{SUBST\_CABLES}} + G_{\text{SUBST\_TX\_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where  $A_{\text{SUBST}}$  is the final substitution correction including receive antenna gain.

$P_{\text{SUBST\_TX}}$  is signal generator level,

$P_{\text{SUBST\_RX}}$  is receiver level,

$L_{\text{SUBST\_CABLES}}$  is cable losses including TX cable,

$G_{\text{SUBST\_TX\_ANT}}$  is substitution antenna gain.

$A_{\text{TOT}}$  is total correction factor including cable loss and substitution correction

During the test, the data of  $A_{\text{TOT}}$  was added in the Test Spectrum Analyze, so Spectrum Analyze reading is the final values which contain the data of  $A_{\text{TOT}}$ .



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
LTE Band 2	20MHz	L 18700	1860.0	QPSK	1	0	23.65
					1	49	23.39
					1	99	23.17
					50	0	22.95
					50	25	22.54
					50	49	22.38
		100	0	22.74			
		16-QAM	1	0	23.61		
			1	49	23.87		
			1	99	23.04		
			50	0	23.51		
			50	25	22.67		
	50		49	22.88			
	M 20175	1880.0	QPSK	1	0	23.17	
				1	49	22.59	
				1	99	22.67	
				50	0	23.21	
				50	25	22.51	
				50	49	22.82	
	16-QAM	100	0	23.06			
		1	0	22.77			
		1	49	22.59			
		1	99	22.06			
		50	0	22.95			
50		25	23.87				
H 19100	1900.0	QPSK	50	49	23.69		
			100	0	23.01		
			1	0	22.54		
			1	49	22.66		
			1	99	22.96		
			50	0	23.25		
50	25	22.88					
50	49	23.54					
100	0	23.62					



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
				16-QAM	1	0	23.33
					1	49	22.97
					1	99	22.45
					50	0	23.05
					50	25	22.97
					50	49	22.67
					100	0	22.12
	15MHz	L 18675	1857.5	QPSK	1	0	23.86
					1	37	23.54
					1	74	23.65
					36	0	22.81
					36	18	22.59
					36	35	22.61
					75	0	22.84
				16-QAM	1	0	22.59
					1	37	22.46
					1	74	22.47
					36	0	23.04
					36	18	23.51
					36	35	22.61
					75	0	21.96
		M 18900	1880.0	QPSK	1	0	22.94
					1	37	22.71
					1	74	22.91
					36	0	23.04
					36	18	23.15
					36	35	22.91
					75	0	22.67
16-QAM	1		0	21.91			
	1		37	22.03			
	1		74	22.45			
	36		0	21.94			
	36		18	21.84			
	36		35	22.64			
	75		0	22.19			



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)	
					RB Size	RB Offset		
		H 19125	1902.5	QPSK	1	0	22.97	
					1	37	23.04	
					1	74	23.09	
					36	0	22.88	
					36	18	22.64	
					36	35	21.88	
					75	0	22.09	
		16-QAM	1	0	22.41			
			1	37	22.97			
			1	74	21.99			
			36	0	22.04			
			36	18	22.54			
			36	35	21.97			
			75	0	21.58			
			L 18650	1855.0	QPSK	1	0	22.88
						1	24	23.04
						1	49	22.65
						25	0	22.98
						25	12	23.44
						25	24	22.87
						50	0	22.55
			16-QAM	1	0	22.69		
				1	24	21.59		
				1	49	22.33		
				25	0	23.14		
				25	12	23.51		
				25	24	22.66		
				50	0	21.85		
		M 18900	1800.0	QPSK	1	0	23.31	
					1	24	23.33	
					1	49	22.95	
					25	0	22.41	
					25	12	23.15	
					25	24	22.26	
					50	0	23.84	



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
		H 19150	1905.0	16-QAM	1	0	22.05
					1	24	23.81
					1	49	23.48
					25	0	23.66
					25	12	22.64
					25	24	23.51
					50	0	21.55
		QPSK	1	0	23.19		
			1	24	22.29		
			1	49	22.84		
			25	0	22.66		
			25	12	22.14		
			25	24	22.61		
			50	0	22.08		
	16-QAM	1	0	21.99			
		1	24	21.87			
		1	49	22.05			
		25	0	21.96			
		25	12	22.21			
		25	24	22.44			
		50	0	21.85			
	5MHz	L 18625	1852.5	QPSK	1	0	23.21
					1	12	23.41
					1	24	23.55
					12	0	22.87
					12	6	22.61
					12	11	22.55
					25	0	22.39
16-QAM		1	0	22.21			
		1	12	22.82			
		1	24	22.09			
		12	0	21.99			
		12	6	23.01			
		12	11	22.62			
		25	0	22.51			



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
		M 18900	1880.0	QPSK	1	0	23.05
					1	12	23.21
					1	24	23.23
					12	0	22.85
					12	6	22.56
					12	11	22.39
					25	0	22.4
				16-QAM	1	0	23.19
					1	12	22.82
					1	24	22.94
					12	0	22.37
					12	6	23.48
					12	11	22.7
					25	0	22.59
		H 19175	1907.5	QPSK	1	0	23.03
					1	12	23.15
					1	24	23.24
					12	0	23.18
					12	6	23.28
					12	11	22.64
					25	0	22.54
				16-QAM	1	0	22.19
					1	12	23.34
					1	24	22.62
					12	0	22.72
					12	6	23.14
					12	11	23.06
					25	0	22.59
	3MHz	L 18615	1851.5	QPSK	1	0	23.14
					1	7	22.91
					1	14	22.94
					8	0	22.38
					8	4	23.54
					8	7	23.61
					15	0	22.94



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)	
					RB Size	RB Offset		
				16-QAM	1	0	22.83	
					1	7	23.31	
					1	14	22.94	
					8	0	23.44	
					8	4	22.87	
					8	7	22.96	
					15	0	22.58	
		M 18900	1880.0		QPSK	1	0	23.51
						1	7	23.03
						1	14	23.39
						8	0	23.18
						8	4	22.84
						8	7	22.65
						15	0	23.14
					16-QAM	1	0	23.66
						1	7	22.96
						1	14	23.18
						8	0	23.6
						8	4	22.89
						8	7	23.42
						15	0	22.68
		H 19184	1908.4		QPSK	1	0	23.04
						1	7	23.15
						1	14	22.88
						8	0	22.96
						8	4	23.2
						8	7	22.96
15	0					23.01		
			16-QAM	1	0	23.04		
				1	7	22.96		
				1	14	23.44		
				8	0	22.97		
				8	4	23.15		
				8	7	23.26		
				15	0	22.98		



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
1.4MHz	L 18607	1850.7	QPSK	1	0	23.15	
				1	2	22.69	
				1	5	24.01	
				3	0	23.89	
				3	1	23.54	
				3	2	23.51	
				6	0	23.61	
			16-QAM	1	0	23.05	
				1	2	23.34	
				1	5	23.56	
				3	0	23.19	
				3	1	23.58	
				3	2	23.67	
				6	0	22.54	
	M 18900	QPSK	1880.0	1	0	22.98	
				1	2	23.19	
				1	5	23.54	
				3	0	23.62	
				3	1	23.31	
				3	2	23.64	
				6	0	22.99	
		16-QAM		1	0	23.19	
				1	2	23.44	
				1	5	23.46	
				3	0	22.85	
				3	2	23.06	
				3	5	23.11	
H 19192	QPSK	1909.2	1	0	23.51		
			1	2	23.38		
			1	5	23.42		
			3	0	23.77		
			3	1	23.72		
			3	2	23.62		
			6	0	22.96		



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
				16-QAM	1	0	22.6
					1	2	22.88
					1	5	22.85
					3	0	23.02
					3	1	23.28
					3	2	22.55
					6	0	22.95

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
LTE Band 4	20MHz	L 20050	1720	QPSK	1	0	23.17
					1	49	23.22
					1	99	23.51
					50	0	22.96
					50	25	23.45
					50	49	22.61
					100	0	22.94
				16-QAM	1	0	23.71
					1	49	22.88
					1	99	22.69
					50	0	23.15
					50	25	23.22
					50	49	23.44
					100	0	22.81
		M 20175	1732.5	QPSK	1	0	22.96
					1	49	23.06
					1	99	23.15
					50	0	23.41
					50	25	23.45
					50	49	23.74
					100	0	23.55
16-QAM	1			0	23.64		
	1			49	23.22		
	1			99	24.05		



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)	
					RB Size	RB Offset		
		H 20300	1745	QPSK	50	0	22.99	
					50	25	22.69	
					50	49	23.15	
					100	0	23.71	
					1	0	23.59	
					1	49	23.64	
					1	99	23.19	
		16-QAM	50	0	22.77			
			50	25	23.09			
			50	49	23.54			
			100	0	23.31			
			1	0	23.47			
			1	49	23.64			
			1	99	23.55			
		15MHz	L 20025	1717.5	QPSK	1	0	24.88
						1	37	24.72
						1	74	25.02
						36	0	24.96
						36	18	23.52
						36	35	23.19
						75	0	23.07
			16-QAM	1	0	23.55		
				1	37	23.61		
				1	74	23.11		
				36	0	23.52		
				36	18	23.62		
				36	35	22.98		
				75	0	22.52		
M 20175	1732.5	QPSK	1	0	23.98			
			1	37	23.82			
			1	74	22.91			



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
		H 20325	1747.5		36	0	23.15
					36	18	23.12
					36	35	23.52
					75	0	23.09
				16-QAM	1	0	23.18
					1	37	22.85
					1	74	23.61
					36	0	23.19
					36	18	23.05
					36	35	22.84
					75	0	23.61
					QPSK	1	0
				1		37	23.22
				1		74	23.39
		36	0	23.07			
		36	18	23.18			
		36	35	22.94			
		75	0	22.67			
		16-QAM	1	0	23.51		
			1	37	23.69		
			1	74	23.84		
			36	0	23.7		
			36	18	23.26		
			36	35	23.71		
			75	0	22.78		
			L 20000	1715	QPSK	1	0
		1				24	23.87
		1				49	23.74
25	0	23.66					
25	12	23.59					
25	24	23.41					
50	0	22.81					
16-QAM	1	0			22.96		
	1	24			22.72		
	1	49			22.16		



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
		M 20175	1732.5	QPSK	25	0	22.67
					25	12	23.09
					25	24	23.25
					50	0	22.49
					1	0	22.97
					1	24	23.61
				16-QAM	1	49	23.51
					25	0	23.52
					25	12	23.61
					25	24	23.66
					50	0	23.57
					1	0	22.86
		H 20350	1750	QPSK	1	24	22.81
					1	49	23.06
					25	0	22.59
					25	12	23.12
					25	24	23.11
					50	0	22.51
				16-QAM	1	0	23.64
					1	24	23.6
					1	49	23.59
					25	0	22.96
					25	12	23.18
					25	24	22.66
		L 19975	1712.5	QPSK	50	0	22.67
					1	0	22.81
					1	24	23.12
16-QAM	1			49	23.35		
	25			0	23.44		
	25			12	22.65		
	25			24	22.57		
	50			0	22.71		
	1			0	23.12		
5MHz				QPSK	1	12	23.55
					1	24	23.41
					1	0	23.12



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)		
					RB Size	RB Offset			
					12	0	22.95		
					12	6	22.84		
					12	11	22.64		
					25	0	22.59		
				16-QAM	1	0	23.61		
					1	12	23.55		
					1	24	23.64		
					12	0	22.89		
					12	6	23.05		
					12	11	23.07		
					25	0	22.81		
				QPSK	1	0	23.18		
					1	12	23.45		
					1	24	23.61		
		12	0		23.12				
		12	6		23.44				
		12	11		23.61				
		25	0		22.88				
		16-QAM	1	0	23.09				
			1	12	23.15				
			1	24	23.52				
			12	0	22.87				
			12	6	22.86				
			12	11	22.64				
			25	0	23.84				
						QPSK	1	0	23.41
							1	12	24.15
							1	24	23.91
12	0						23.54		
12	6						23.76		
12	11						23.55		
25	0						22.91		
16-QAM	1			0	23.13				
	1			12	23.45				
	1			24	23.62				



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
	3MHz	L 19965	1711.5	QPSK	12	0	23.41
					12	6	23.29
					12	11	23.08
					25	0	23.09
					1	0	23.07
					1	7	23.51
					1	14	23.66
				16-QAM	8	0	23.71
					8	4	23.65
					8	7	23.14
					15	0	23.22
					1	0	23.71
					1	7	23.09
					1	14	23.88
					8	0	23.49
	M 20175	QPSK	8	4	23.62		
			8	7	23.51		
			15	0	23.81		
			1	0	23.44		
			1	7	23.71		
			1	14	23.79		
			8	0	23.51		
		16-QAM	8	4	23.88		
			8	7	23.41		
			15	0	23.29		
			1	0	23.11		
			1	7	23.61		
			1	14	23.22		
			8	0	23.19		
			8	4	23.51		
H 20385	QPSK	8	7	23.44			
		15	0	23.09			
		1	0	23.5			
		1	7	23.88			
		1	14	23.64			
		8	4	23.51			



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)		
					RB Size	RB Offset			
					8	0	23.18		
					8	4	23.55		
					8	7	23.47		
					15	0	23.52		
				16-QAM	1	0	23.71		
					1	7	23.72		
					1	14	23.81		
					8	0	23.55		
					8	4	23.72		
					8	7	23.29		
					15	0	23.25		
				QPSK	1	0	23.12		
					1	2	23.51		
					1	5	23.71		
	3	0	23.17						
	3	1	23.09						
	3	2	23.44						
	6	0	23.39						
	16-QAM	1	0	22.97					
		1	2	22.69					
		1	5	22.84					
		3	0	22.72					
		3	1	22.94					
		3	2	22.51					
		6	0	21.96					
	QPSK	1	0	23.09					
		1	2	23.41					
		1	5	23.19					
3		0	23.44						
3		1	23.51						
3		2	23.21						
6		0	23.09						
16-QAM	1	0	23.19						
	1	2	23.55						
	1	5	23.44						
	1.4MHz	L 19957	1710.7						
		M 20175	1732.5						



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)	
					RB Size	RB Offset		
					3	0	23.87	
					3	2	23.41	
					3	5	23.51	
					6	0	22.91	
		H 20393	1754.5		QPSK	1	0	24.02
						1	2	24.11
						1	5	23.96
						3	0	24.09
						3	1	24.13
						3	2	24.26
						6	0	23.87
						16-QAM		
		1	2	23.09				
		1	5	23.22				
		3	0	23.51				
						3	1	23.29
3	2					23.52		
6	0					23.11		

Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)			
					RB Size	RB Offset				
LTE Band 7	20MHz	L 20850	2510	QPSK	1	0	23.19			
					1	49	23.44			
					1	99	23.51			
					50	0	23.02			
					50	25	23.19			
					50	49	23.34			
					100	0	22.92			
				16-QAM				1	0	22.81
								1	49	22.69
								1	99	23.08
								50	0	23.92
								50	25	23.42
								50	49	23.08



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
		M 21100	2535	QPSK	100	0	22.82
					1	0	23.41
					1	49	23.44
					1	99	23.42
					50	0	23.51
					50	25	22.89
				50	49	23.17	
				100	0	23.51	
				16-QAM	1	0	22.96
					1	49	23.17
		1	99		22.86		
		50	0		23.51		
		50	25		23.16		
		50	49		23.55		
		H 21350	2560	QPSK	100	0	23.74
					1	0	22.89
					1	49	23.51
					1	99	23.64
					50	0	22.96
					50	25	23.19
	50				49	23.08	
	100				0	23.62	
	L 20825	2507.5	QPSK	16-QAM	1	0	23.41
					1	49	23.39
					1	99	23.64
					50	0	23.51
				50	25	23.11	
				50	49	23.61	
100				0	23.47		
15MHz							QPSK
	1	37	23.51				
	1	74	23.41				
	36	0	23.62				
	36	18	23.19				
	36	35	23.71				



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
		M 21100	2535	16-QAM	75	0	23.01
					1	0	22.89
					1	37	22.61
					1	74	22.74
					36	0	22.9
					36	18	22.59
					36	35	22.76
				75	0	22.82	
				QPSK	1	0	23.19
					1	37	23.21
					1	74	23.51
					36	0	23.49
					36	18	23.5
					36	35	23.09
		75	0		22.82		
		16-QAM	1	0	22.69		
			1	37	22.67		
			1	74	22.64		
			36	0	22.44		
			36	18	22.39		
			36	35	23.02		
			75	0	22.82		
		H 21375	2562.5	QPSK	1	0	23.17
					1	37	23.39
					1	74	23.44
					36	0	23.81
					36	18	23.41
					36	35	23.31
75	0				23.09		
16-QAM	1			0	23.77		
	1			37	23.64		
	1			74	23.19		
	36			0	23.42		
	36			18	23.31		
	36			35	23.09		
	36			35	23.09		



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
	10MHz	L 20800	2505	QPSK	75	0	23.82
					1	0	23.51
					1	24	23.61
					1	49	23.34
					25	0	23.39
					25	12	23.48
					25	24	23.5
				16-QAM	50	0	22.47
					1	0	22.81
					1	24	22.6
					1	49	22.76
					25	0	22.58
					25	12	22.67
					25	24	23.01
		M 21100	QPSK	50	0	23.2	
				1	0	22.88	
				1	24	23.17	
				1	49	23.4	
				25	0	23.19	
				25	12	22.81	
				25	24	23.51	
			16-QAM	50	0	22.49	
				1	0	22.81	
				1	24	22.79	
				1	49	22.86	
				25	0	22.71	
				25	12	22.96	
				25	24	22.94	
		H 21400	QPSK	50	0	22.78	
				1	0	22.85	
1	24			23.19			
1	49			23.04			
25	0			23.51			
25	12			23.08			
25	24	23.51					



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)
					RB Size	RB Offset	
				16-QAM	50	0	23.44
					1	0	23.19
					1	24	23.26
					1	49	23.47
					25	0	23.28
					25	12	23.5
					25	24	23.61
					50	0	22.96
	5MHz	L 20755	2502.5	QPSK	1	0	23.19
					1	12	23.44
					1	24	23.39
					12	0	23.41
					12	6	23.21
					12	11	23.18
					25	0	22.91
					1	0	23.06
		M 21100	2535	QPSK	1	12	22.89
					1	24	22.87
					12	0	23.24
					12	6	23.39
					12	11	23.54
					25	0	22.16
					1	0	23.51
					1	12	23.48
	16-QAM			16-QAM	1	24	23.7
					12	0	23.26
					12	6	23.11
					12	11	23.09
25					0	23.21	
1					0	23.41	
1					12	23.06	
1					24	23.51	
12	0	22.96					
12	6	22.74					
12	11	22.39					



Band	Band Width	Channel	Frequency (MHz)	Modulation	RB Configuration		ERP (dBm)		
					RB Size	RB Offset			
					25	0	22.81		
		H 21350	2560	QPSK	1	0	22.98		
					1	12	22.49		
					1	24	22.82		
					12	0	22.79		
					12	6	23.4		
					12	11	23.14		
						16-QAM	25	0	23.25
							1	0	23.08
							1	12	22.7
							1	24	22.68
							12	0	23.01
							12	6	22.85
							12	11	22.67
							25	0	22.71

## 7. Radiated Spurious Emissions

### 1.7.1 Requirement

According to FCC section 2.1053 and section 24.238 and 27.53(g), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least  $43+10*\log(P)$ dB. This calculated to be -13dBm.

### 1.7.2 Test Description

See section 1.6.2 of this report.

Note: when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

### 1.7.3 Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

Test Plots for the Whole Measurement Frequency Range:



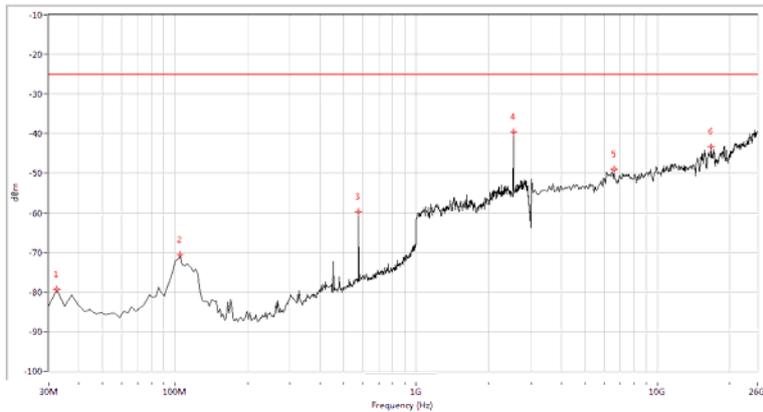
REPORT No.: SZ15020045W02

Note1: the power of the EUT transmitting frequency should be ignored.

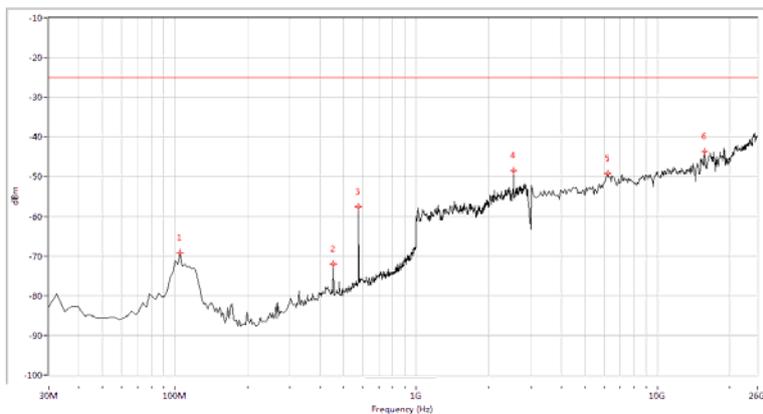
Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.



LTE Band 7 5MHz BW, Mid Channel, QPSK



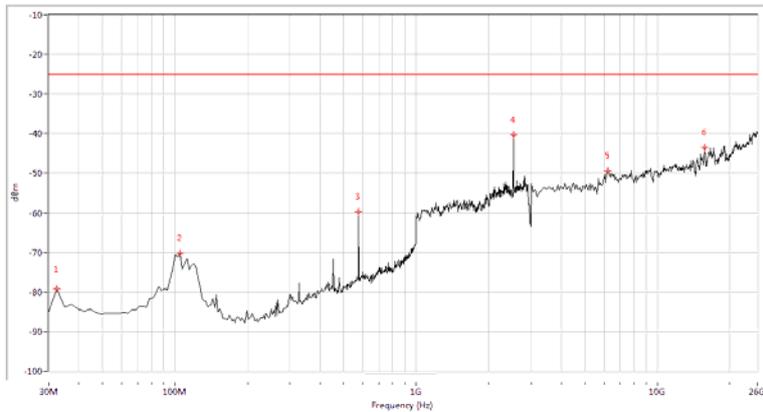
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-79.26	-25.0	54.3	-0.0	Horizontal	PASS
104.988	-70.56	-25.0	45.6	255.4	Horizontal	PASS
576.683	-59.67	-25.0	34.7	277.3	Horizontal	PASS
2536.160	-39.61	-25.0	14.6	312.7	Horizontal	N.A
6613.466	-48.97	-25.0	24.0	45.5	Horizontal	PASS
16650.873	-43.29	-25.0	18.3	26.2	Horizontal	PASS



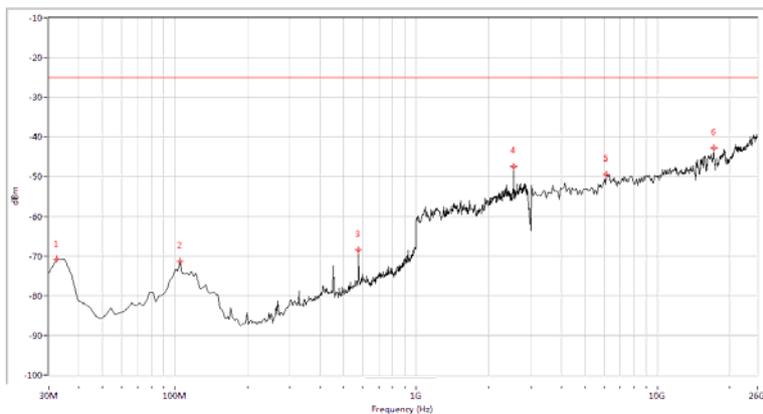
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
104.988	-69.25	-25.0	44.2	247.7	Vertical	PASS
453.317	-72.09	-25.0	47.1	291.5	Vertical	PASS
576.683	-57.55	-25.0	32.6	262.9	Vertical	PASS
2536.160	-48.54	-25.0	23.5	252.5	Vertical	N.A
6211.970	-49.27	-25.0	24.3	39.5	Vertical	PASS
15675.810	-43.62	-25.0	18.6	201.6	Vertical	PASS



LTE Band 7 5MHz BW, Mid Channel, 16QAM



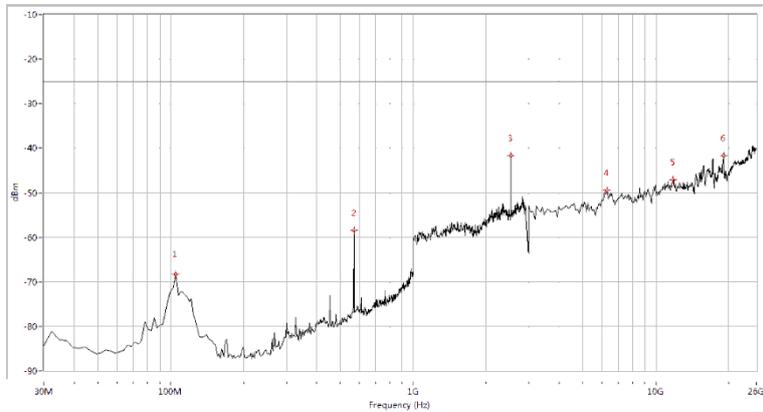
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-79.12	-25.0	54.1	360.0	Horizontal	PASS
104.988	-70.29	-25.0	45.3	338.1	Horizontal	PASS
576.683	-59.75	-25.0	34.7	268.6	Horizontal	PASS
2536.160	-40.30	-25.0	15.3	304.4	Horizontal	N.A
6211.970	-49.36	-25.0	24.4	245.9	Horizontal	PASS
15733.167	-43.51	-25.0	18.5	360.0	Horizontal	PASS



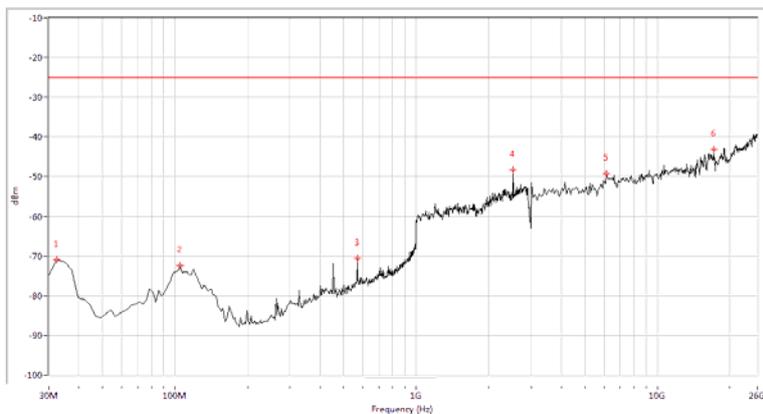
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-70.82	-25.0	45.8	354.3	Vertical	PASS
104.988	-71.26	-25.0	46.3	5.9	Vertical	PASS
576.683	-68.48	-25.0	43.5	256.2	Vertical	PASS
2536.160	-47.42	-25.0	22.4	272.6	Vertical	N.A
6154.613	-49.38	-25.0	24.4	153.5	Vertical	PASS
17167.082	-42.72	-25.0	17.7	190.3	Vertical	PASS



LTE Band 7 10MHz BW, Mid Channel, QPSK



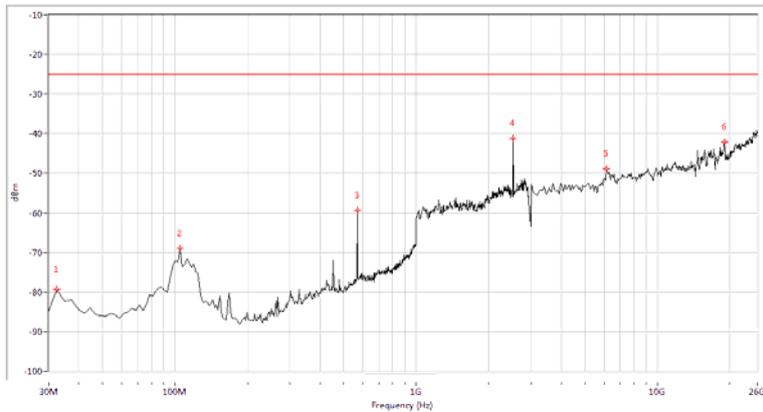
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
104.988	-68.23	-25.0	43.2	311.4	Horizontal	PASS
569.426	-58.47	-25.0	33.5	270.9	Horizontal	PASS
2526.185	-41.63	-25.0	16.6	329.8	Horizontal	N.A
6269.327	-49.52	-25.0	24.5	292.7	Horizontal	PASS
11775.561	-47.11	-25.0	22.1	132.1	Horizontal	PASS
19002.494	-41.73	-25.0	16.7	199.0	Horizontal	PASS



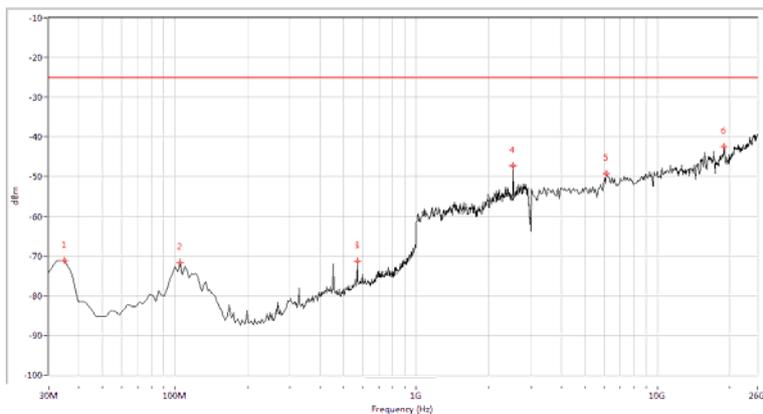
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-71.01	-25.0	46.0	357.3	Vertical	PASS
104.988	-72.33	-25.0	47.3	32.1	Vertical	PASS
569.426	-70.54	-25.0	45.5	254.1	Vertical	PASS
2526.185	-48.28	-25.0	23.3	296.3	Vertical	N.A
6154.613	-49.27	-25.0	24.3	259.6	Vertical	PASS
17167.082	-43.14	-25.0	18.1	167.0	Vertical	PASS



LTE Band 7 10MHz BW, Mid Channel, 16QAM



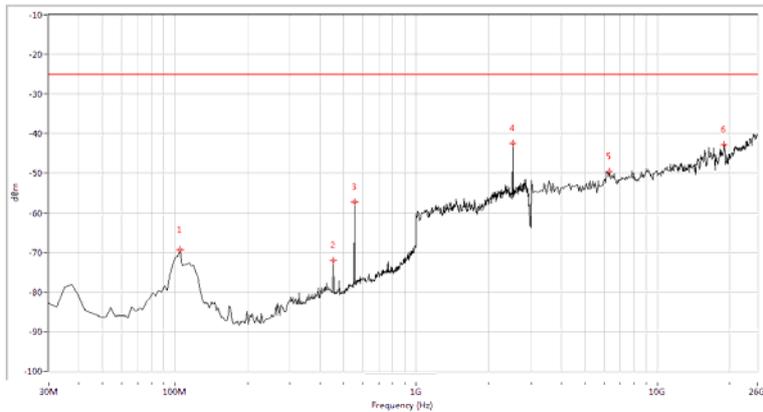
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-79.33	-25.0	54.3	145.3	Horizontal	PASS
104.988	-69.06	-25.0	44.1	297.4	Horizontal	PASS
569.426	-59.36	-25.0	34.4	277.4	Horizontal	PASS
2526.185	-41.26	-25.0	16.3	308.3	Horizontal	N.A
6154.613	-48.80	-25.0	23.8	299.7	Horizontal	PASS
19059.850	-42.16	-25.0	17.2	82.9	Horizontal	PASS



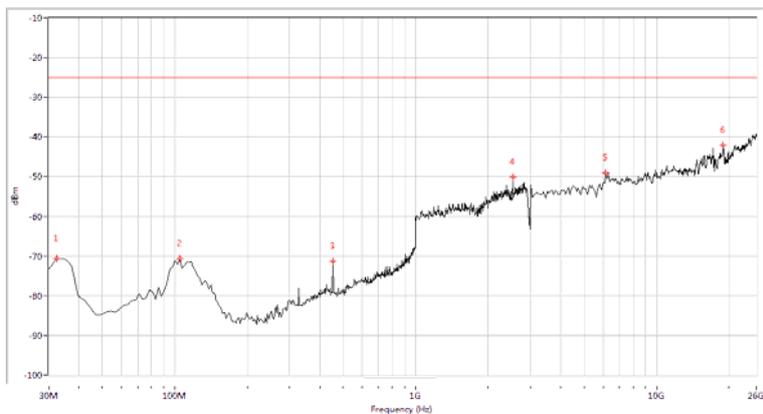
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-71.18	-25.0	46.2	-0.0	Vertical	PASS
104.988	-71.74	-25.0	46.7	90.7	Vertical	PASS
569.426	-71.27	-25.0	46.3	266.2	Vertical	PASS
2526.185	-47.29	-25.0	22.3	285.6	Vertical	N.A
6154.613	-49.20	-25.0	24.2	208.9	Vertical	PASS
18945.137	-42.42	-25.0	17.4	48.5	Vertical	PASS



LTE Band 7 15MHz BW, Mid Channel, QPSK



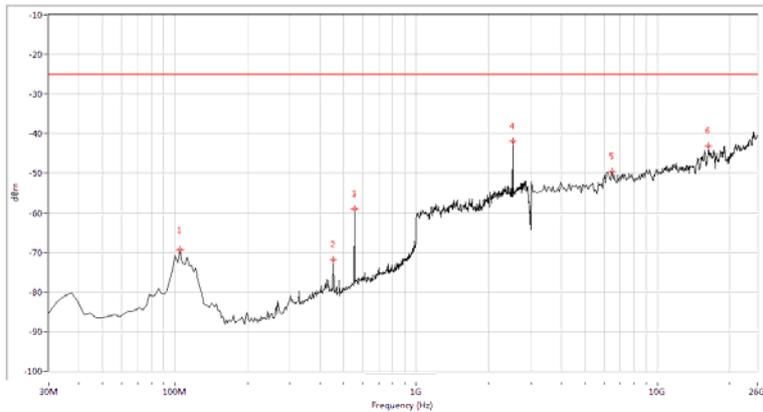
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
104.988	-69.26	-25.0	44.3	318.1	Horizontal	PASS
453.317	-71.98	-25.0	47.0	312.1	Horizontal	PASS
554.913	-57.27	-25.0	32.3	265.3	Horizontal	PASS
2511.222	-42.41	-25.0	17.4	306.4	Horizontal	N.A
6326.683	-49.63	-25.0	24.6	299.1	Horizontal	PASS
18887.781	-42.83	-25.0	17.8	222.8	Horizontal	PASS



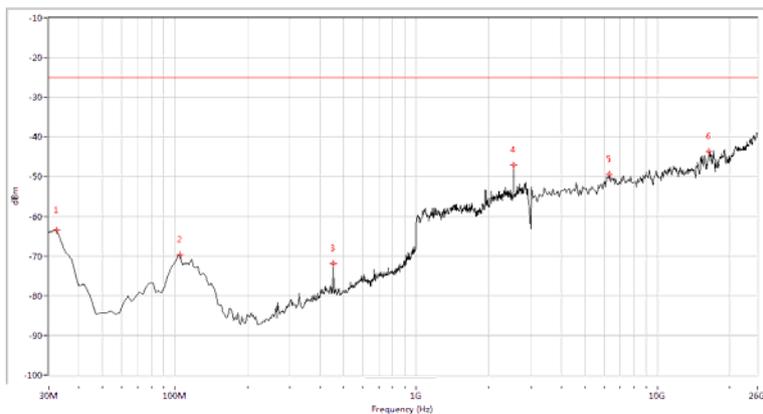
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-70.61	-25.0	45.6	-0.0	Vertical	PASS
104.988	-70.53	-25.0	45.5	263.6	Vertical	PASS
453.317	-71.36	-25.0	46.4	37.0	Vertical	PASS
2536.160	-50.15	-25.0	25.2	272.2	Vertical	N.A
6154.613	-49.04	-25.0	24.0	-0.0	Vertical	PASS
18887.781	-42.12	-25.0	17.1	4.5	Vertical	PASS



LTE Band 7 15MHz BW, Mid Channel, 16QAM



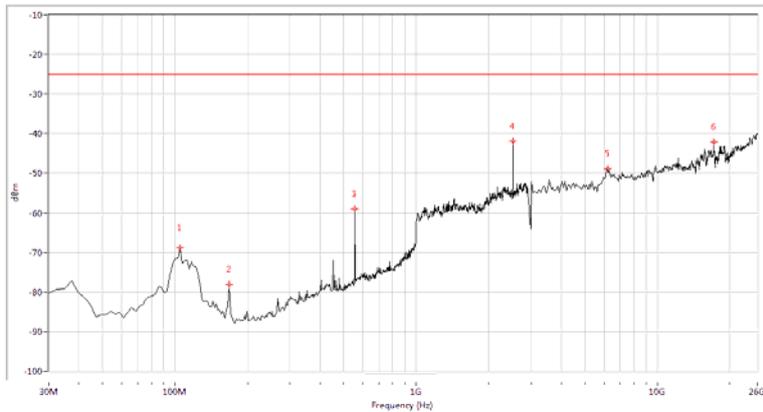
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
104.988	-69.37	-25.0	44.4	301.5	Horizontal	PASS
453.317	-71.85	-25.0	46.9	96.2	Horizontal	PASS
554.913	-59.05	-25.0	34.0	269.9	Horizontal	PASS
2511.222	-41.93	-25.0	16.9	311.3	Horizontal	N.A
6498.753	-49.55	-25.0	24.5	275.5	Horizontal	PASS
16306.733	-43.20	-25.0	18.2	145.6	Horizontal	PASS



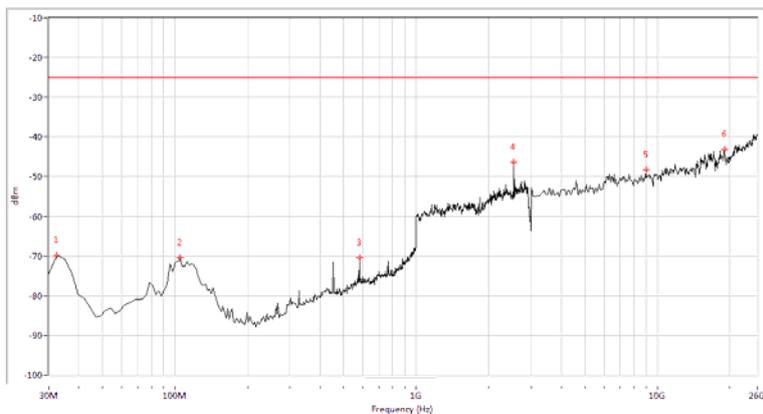
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-63.51	-25.0	38.5	163.7	Vertical	PASS
104.988	-69.73	-25.0	44.7	221.3	Vertical	PASS
453.317	-71.89	-25.0	46.9	280.2	Vertical	PASS
2536.160	-47.01	-25.0	22.0	267.6	Vertical	N.A
6326.683	-49.33	-25.0	24.3	345.5	Vertical	PASS
16421.446	-43.60	-25.0	18.6	107.2	Vertical	PASS



LTE Band 7 20MHz BW, Mid Channel, QPSK



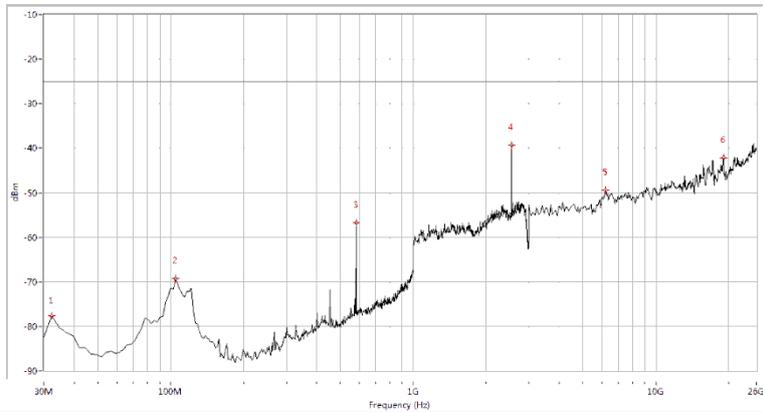
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
104.988	-68.76	-25.0	43.8	297.6	Horizontal	PASS
167.880	-78.14	-25.0	53.1	77.3	Horizontal	PASS
557.332	-59.06	-25.0	34.1	257.3	Horizontal	PASS
2516.209	-41.87	-25.0	16.9	284.6	Horizontal	N.A
6211.970	-48.94	-25.0	23.9	335.3	Horizontal	PASS
17167.082	-42.00	-25.0	17.0	-0.0	Horizontal	PASS



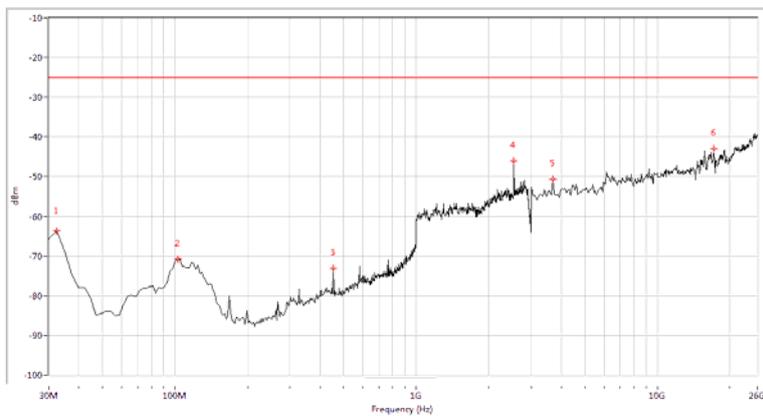
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-69.83	-25.0	44.8	10.5	Vertical	PASS
104.988	-70.45	-25.0	45.4	45.8	Vertical	PASS
581.521	-70.46	-25.0	45.5	233.6	Vertical	PASS
2541.147	-46.32	-25.0	21.3	274.4	Vertical	N.A
8965.087	-48.37	-25.0	23.4	4.3	Vertical	PASS
19002.494	-43.12	-25.0	18.1	113.5	Vertical	PASS



LTE Band 7 20MHz BW, Mid Channel, 16QAM



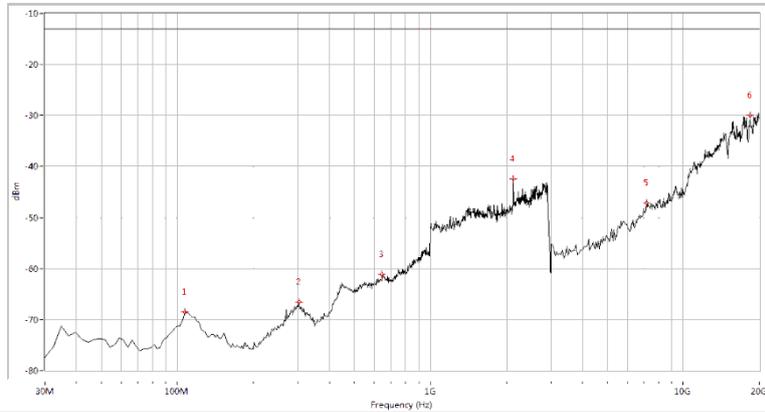
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-77.60	-25.0	52.6	307.7	Horizontal	PASS
104.988	-69.24	-25.0	44.2	318.1	Horizontal	PASS
581.521	-56.68	-25.0	31.7	285.7	Horizontal	PASS
2541.147	-39.32	-25.0	14.3	309.7	Horizontal	N.A
6211.970	-49.48	-25.0	24.5	291.3	Horizontal	PASS
19002.494	-42.20	-25.0	17.2	318.8	Horizontal	PASS



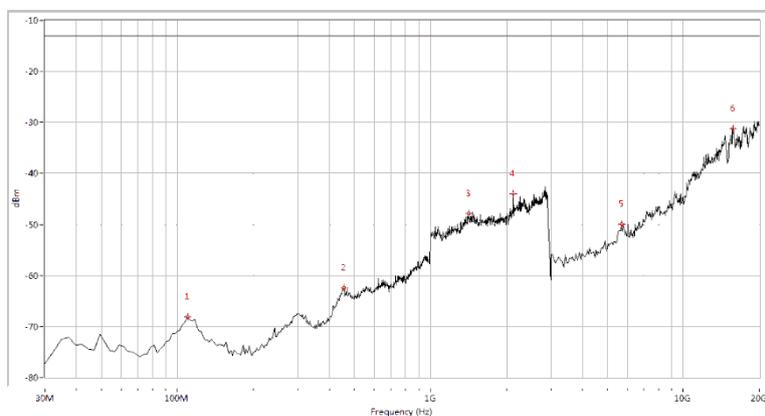
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-63.59	-25.0	38.6	338.3	Vertical	PASS
102.569	-70.71	-25.0	45.7	162.0	Vertical	PASS
453.317	-73.04	-25.0	48.0	291.1	Vertical	PASS
2541.147	-46.01	-25.0	21.0	275.2	Vertical	N.A
3688.279	-50.64	-25.0	25.6	355.8	Vertical	PASS
17109.726	-43.05	-25.0	18.0	247.9	Vertical	PASS



LTE Band 4 1.4MHz BW, Mid Channel, QPSK



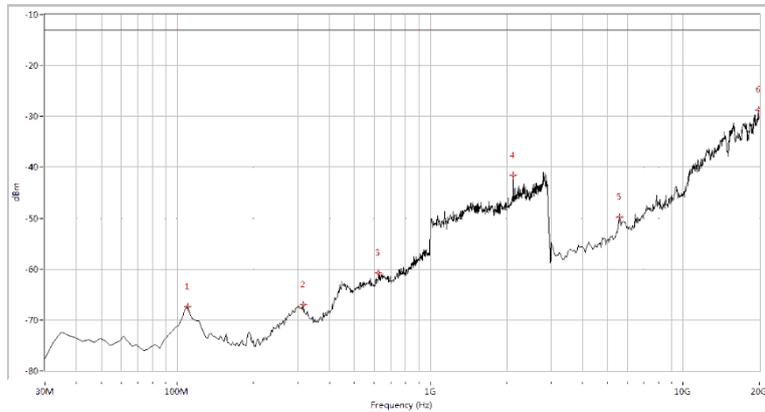
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
107.406	-68.56	-13.0	55.6	63.8	Horizontal	<u>PASS</u>
303.342	-66.54	-13.0	53.5	46.7	Horizontal	<u>PASS</u>
644.414	-61.11	-13.0	48.1	360.0	Horizontal	<u>PASS</u>
2132.170	-42.40	-13.0	29.4	232.9	Horizontal	<u>PASS</u>
7154.613	-47.09	-13.0	34.1	93.5	Horizontal	<u>PASS</u>
18389.027	-29.98	-13.0	17.0	-0.0	Horizontal	<u>PASS</u>



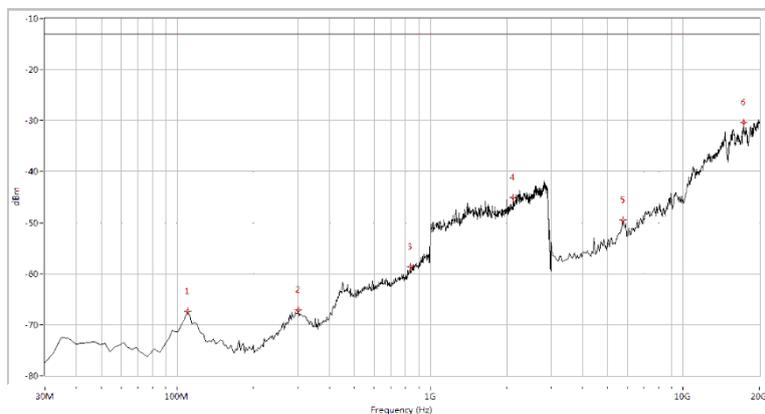
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.07	-13.0	55.1	132.2	Vertical	<u>PASS</u>
455.736	-62.38	-13.0	49.4	267.6	Vertical	<u>PASS</u>
1418.953	-47.85	-13.0	34.8	51.8	Vertical	<u>PASS</u>
2132.170	-43.90	-13.0	30.9	306.2	Vertical	<u>PASS</u>
5713.217	-49.88	-13.0	36.9	98.4	Vertical	<u>PASS</u>
15760.599	-31.20	-13.0	18.2	275.9	Vertical	<u>PASS</u>



LTE Band 4 1.4MHz BW, Mid Channel, 16QAM



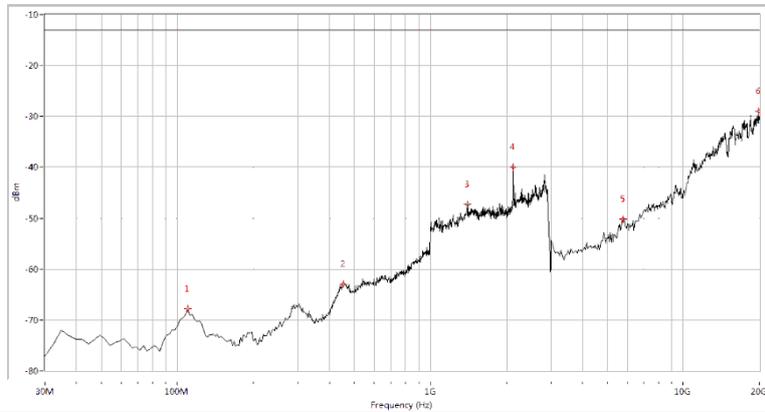
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.41	-13.0	54.4	31.3	Horizontal	<u>PASS</u>
315.436	-66.95	-13.0	54.0	3.4	Horizontal	<u>PASS</u>
625.062	-60.70	-13.0	47.7	360.0	Horizontal	<u>PASS</u>
2132.170	-41.58	-13.0	28.6	266.6	Horizontal	<u>PASS</u>
5586.035	-49.85	-13.0	36.8	360.0	Horizontal	<u>PASS</u>
19830.424	-28.78	-13.0	15.8	39.1	Horizontal	<u>PASS</u>



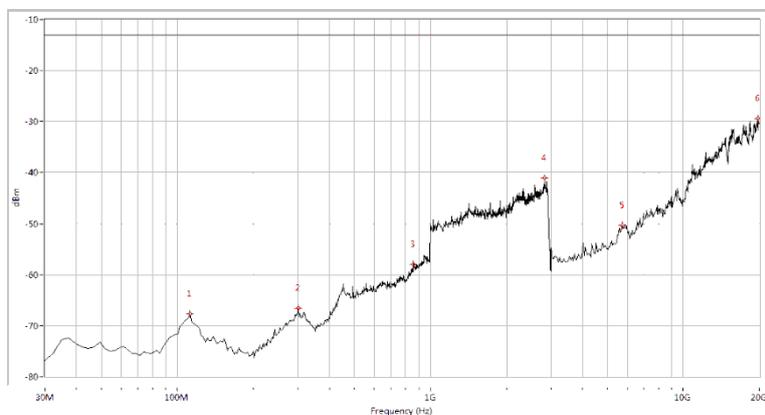
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.45	-13.0	54.5	196.1	Vertical	<u>PASS</u>
300.923	-67.08	-13.0	54.1	18.3	Vertical	<u>PASS</u>
833.092	-58.70	-13.0	45.7	108.5	Vertical	<u>PASS</u>
2132.170	-45.11	-13.0	32.1	112.2	Vertical	<u>PASS</u>
5798.005	-49.55	-13.0	36.6	360.0	Vertical	<u>PASS</u>
17286.783	-30.44	-13.0	17.4	360.0	Vertical	<u>PASS</u>



LTE Band 4 3MHz BW, Mid Channel, QPSK



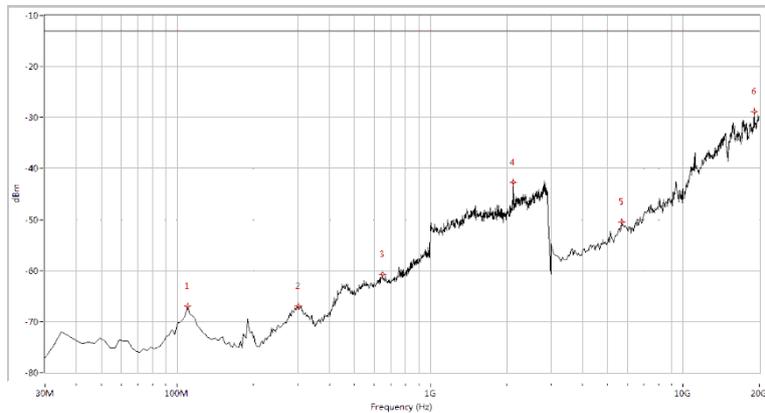
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.80	-13.0	54.8	86.4	Horizontal	<u>PASS</u>
453.317	-62.91	-13.0	49.9	129.5	Horizontal	<u>PASS</u>
1399.002	-47.25	-13.0	34.2	181.8	Horizontal	<u>PASS</u>
2132.170	-39.95	-13.0	27.0	0.1	Horizontal	<u>PASS</u>
5798.005	-50.21	-13.0	37.2	125.4	Horizontal	<u>PASS</u>
19872.818	-29.05	-13.0	16.1	-0.0	Horizontal	<u>PASS</u>



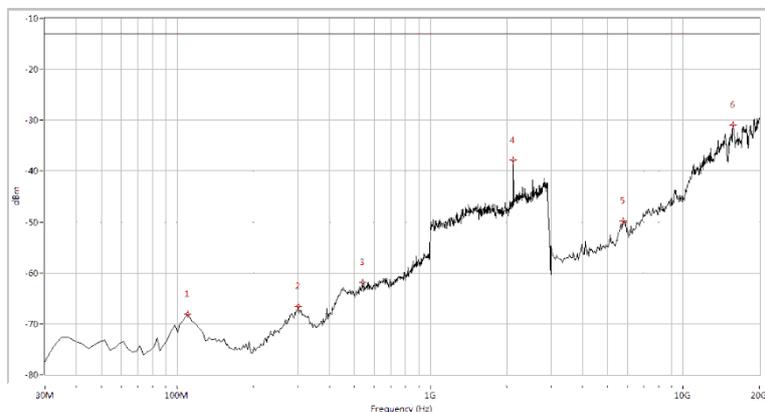
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
112.244	-67.70	-13.0	54.7	186.7	Vertical	<u>PASS</u>
300.923	-66.51	-13.0	53.5	80.7	Vertical	<u>PASS</u>
854.863	-58.02	-13.0	45.0	259.2	Vertical	<u>PASS</u>
2825.436	-41.08	-13.0	28.1	266.2	Vertical	<u>PASS</u>
5755.611	-50.31	-13.0	37.3	-0.0	Vertical	<u>PASS</u>
19788.030	-29.35	-13.0	16.4	268.6	Vertical	<u>PASS</u>



LTE Band 4 3MHz BW, Mid Channel, 16QAM



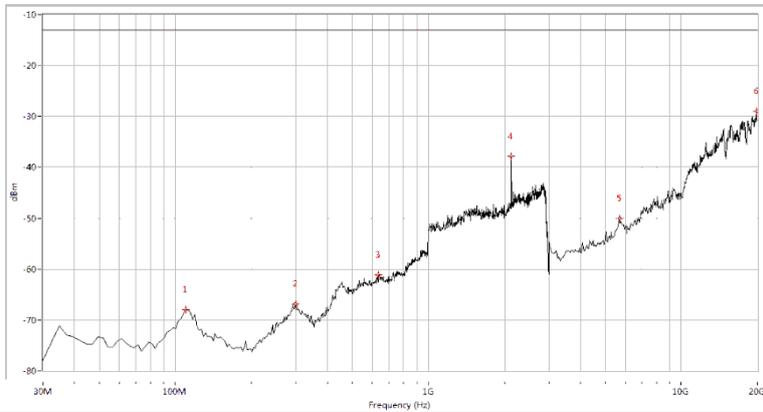
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.01	-13.0	54.0	360.0	Horizontal	<u>PASS</u>
300.923	-66.99	-13.0	54.0	201.1	Horizontal	<u>PASS</u>
646.833	-60.70	-13.0	47.7	-0.0	Horizontal	<u>PASS</u>
2132.170	-42.69	-13.0	29.7	171.2	Horizontal	<u>PASS</u>
5713.217	-50.48	-13.0	37.5	277.7	Horizontal	<u>PASS</u>
19067.332	-28.83	-13.0	15.8	-0.0	Horizontal	<u>PASS</u>



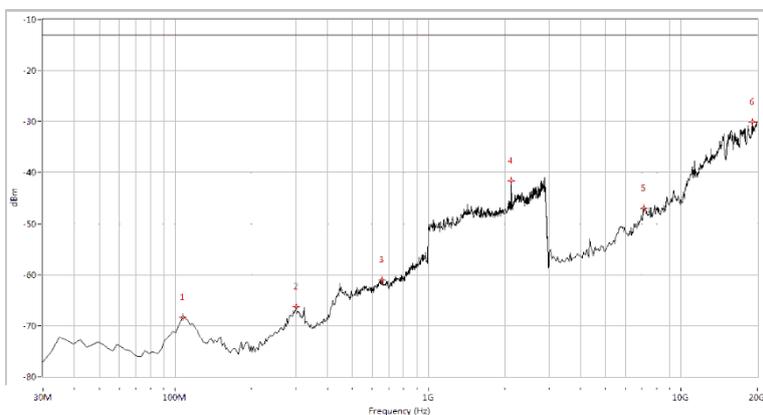
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.04	-13.0	55.0	57.1	Vertical	<u>PASS</u>
300.923	-66.59	-13.0	53.6	307.1	Vertical	<u>PASS</u>
540.399	-61.90	-13.0	48.9	97.1	Vertical	<u>PASS</u>
2132.170	-37.90	-13.0	24.9	59.2	Vertical	<u>PASS</u>
5798.005	-49.80	-13.0	36.8	133.3	Vertical	<u>PASS</u>
15760.599	-30.94	-13.0	17.9	43.3	Vertical	<u>PASS</u>



LTE Band 4 5MHz BW, Mid Channel, QPSK



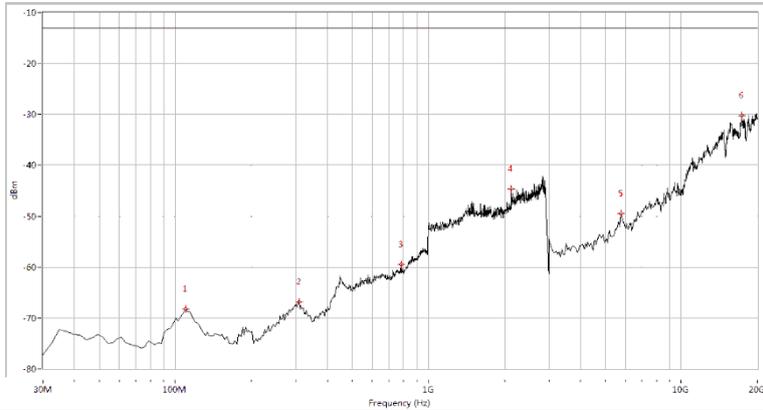
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.96	-13.0	55.0	56.2	Horizontal	<u>PASS</u>
298.504	-66.90	-13.0	53.9	199.4	Horizontal	<u>PASS</u>
637.157	-61.10	-13.0	48.1	335.7	Horizontal	<u>PASS</u>
2132.170	-37.89	-13.0	24.9	263.5	Horizontal	<u>PASS</u>
5713.217	-50.13	-13.0	37.1	166.6	Horizontal	<u>PASS</u>
19830.424	-29.06	-13.0	16.1	74.8	Horizontal	<u>PASS</u>



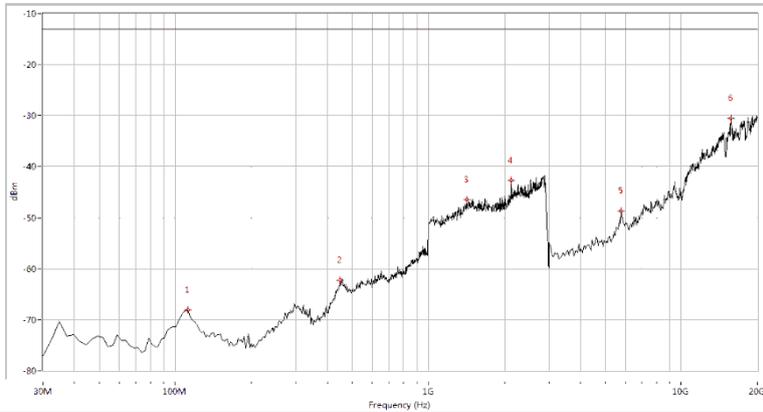
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
107.406	-68.30	-13.0	55.3	312.6	Vertical	<u>PASS</u>
300.923	-66.24	-13.0	53.2	21.3	Vertical	<u>PASS</u>
656.509	-61.05	-13.0	48.1	229.9	Vertical	<u>PASS</u>
2132.170	-41.64	-13.0	28.6	87.5	Vertical	<u>PASS</u>
7112.219	-46.99	-13.0	34.0	19.6	Vertical	<u>PASS</u>
19109.726	-30.13	-13.0	17.1	-0.0	Vertical	<u>PASS</u>



LTE Band 4 5MHz BW, Mid Channel, 16QAM



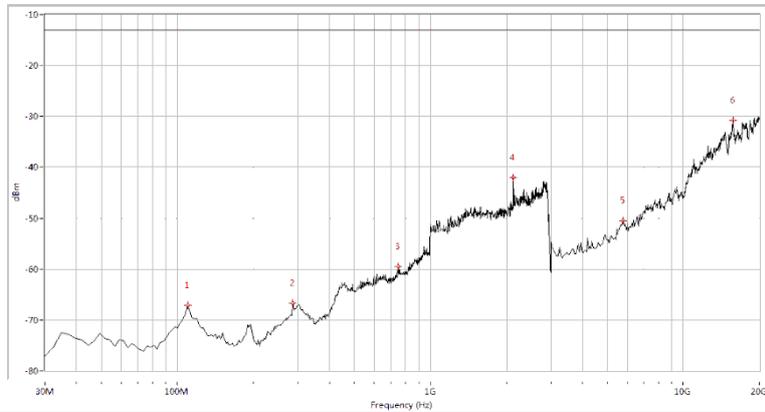
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.28	-13.0	55.3	174.4	Horizontal	<u>PASS</u>
308.180	-66.83	-13.0	53.8	94.1	Horizontal	<u>PASS</u>
779.875	-59.52	-13.0	46.5	275.9	Horizontal	<u>PASS</u>
2132.170	-44.66	-13.0	31.7	354.1	Horizontal	<u>PASS</u>
5798.005	-49.49	-13.0	36.5	33.2	Horizontal	<u>PASS</u>
17371.571	-30.18	-13.0	17.2	81.1	Horizontal	<u>PASS</u>



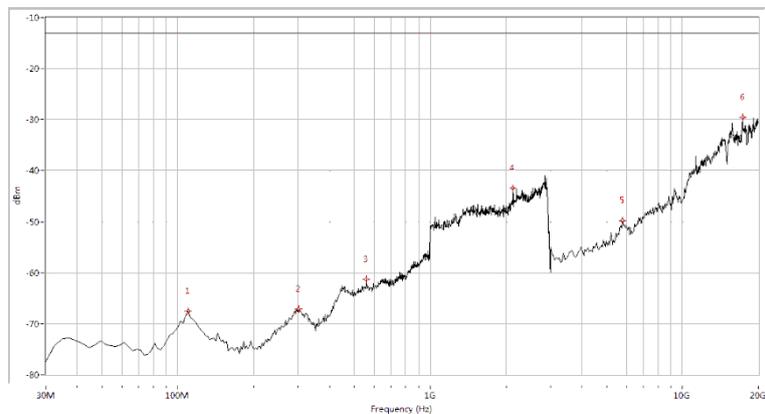
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
112.244	-68.04	-13.0	55.0	346.6	Vertical	<u>PASS</u>
448.479	-62.25	-13.0	49.2	262.6	Vertical	<u>PASS</u>
1418.953	-46.48	-13.0	33.5	343.2	Vertical	<u>PASS</u>
2132.170	-42.68	-13.0	29.7	360.0	Vertical	<u>PASS</u>
5798.005	-48.69	-13.0	35.7	131.4	Vertical	<u>PASS</u>
15718.204	-30.47	-13.0	17.5	131.4	Vertical	<u>PASS</u>



LTE Band 4 10MHz BW, Mid Channel, QPSK



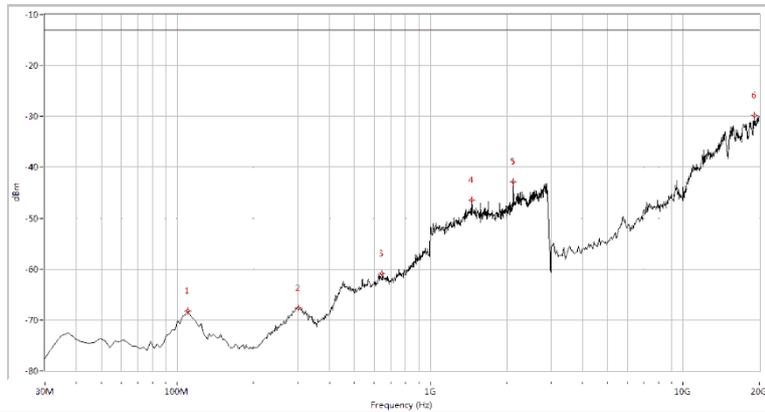
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.07	-13.0	54.1	105.7	Horizontal	<u>PASS</u>
286.409	-66.75	-13.0	53.8	350.1	Horizontal	<u>PASS</u>
746.010	-59.54	-13.0	46.5	330.9	Horizontal	<u>PASS</u>
2132.170	-42.04	-13.0	29.0	47.1	Horizontal	<u>PASS</u>
5798.005	-50.48	-13.0	37.5	330.3	Horizontal	<u>PASS</u>
15718.204	-30.78	-13.0	17.8	91.9	Horizontal	<u>PASS</u>



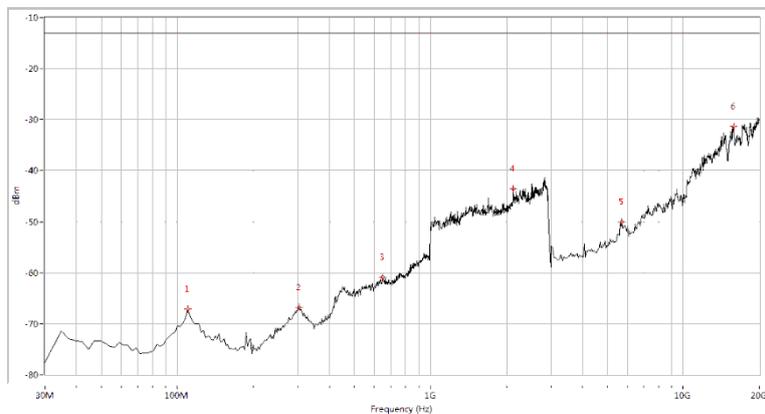
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.54	-13.0	54.5	197.1	Vertical	<u>PASS</u>
300.923	-67.13	-13.0	54.1	208.3	Vertical	<u>PASS</u>
559.751	-61.32	-13.0	48.3	230.8	Vertical	<u>PASS</u>
2132.170	-43.43	-13.0	30.4	316.0	Vertical	<u>PASS</u>
5798.005	-49.83	-13.0	36.8	32.1	Vertical	<u>PASS</u>
17286.783	-29.58	-13.0	16.6	135.8	Vertical	<u>PASS</u>



LTE Band 4 10MHz BW, Mid Channel, 16QAM



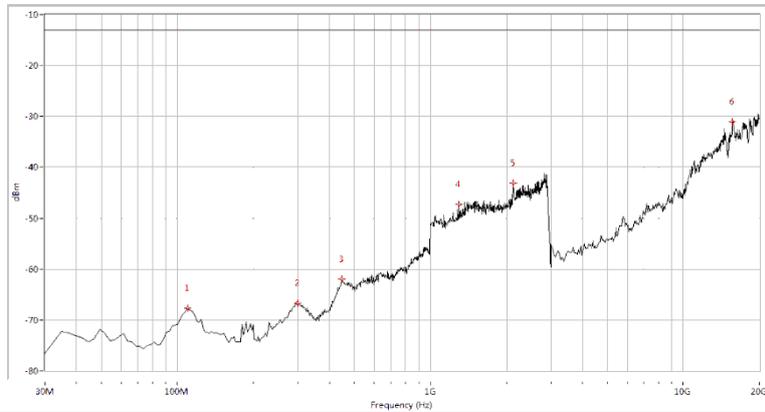
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-68.23	-13.0	55.2	57.2	Horizontal	<u>PASS</u>
300.923	-67.71	-13.0	54.7	190.4	Horizontal	<u>PASS</u>
644.414	-60.82	-13.0	47.8	0.4	Horizontal	<u>PASS</u>
1463.840	-46.44	-13.0	33.4	110.5	Horizontal	<u>PASS</u>
2132.170	-42.90	-13.0	29.9	99.2	Horizontal	<u>PASS</u>
19109.726	-29.89	-13.0	16.9	333.9	Horizontal	<u>PASS</u>



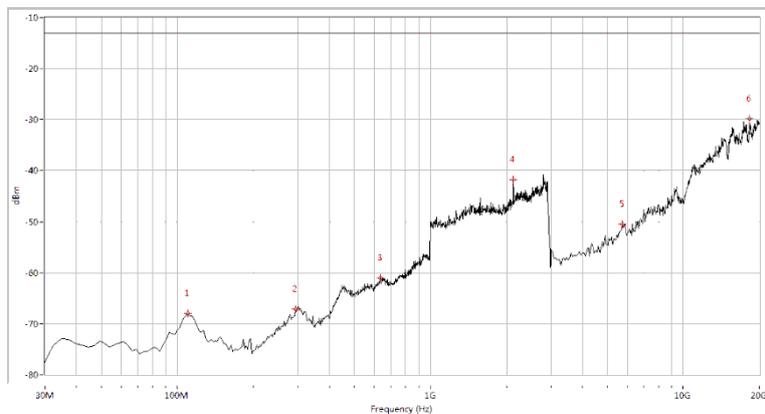
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.18	-13.0	54.2	-0.0	Vertical	<u>PASS</u>
303.342	-66.79	-13.0	53.8	262.8	Vertical	<u>PASS</u>
646.833	-60.81	-13.0	47.8	108.6	Vertical	<u>PASS</u>
2132.170	-43.49	-13.0	30.5	184.9	Vertical	<u>PASS</u>
5713.217	-50.11	-13.0	37.1	83.1	Vertical	<u>PASS</u>
15802.993	-31.34	-13.0	18.3	-0.0	Vertical	<u>PASS</u>



LTE Band 4 15MHz BW, Mid Channel, QPSK



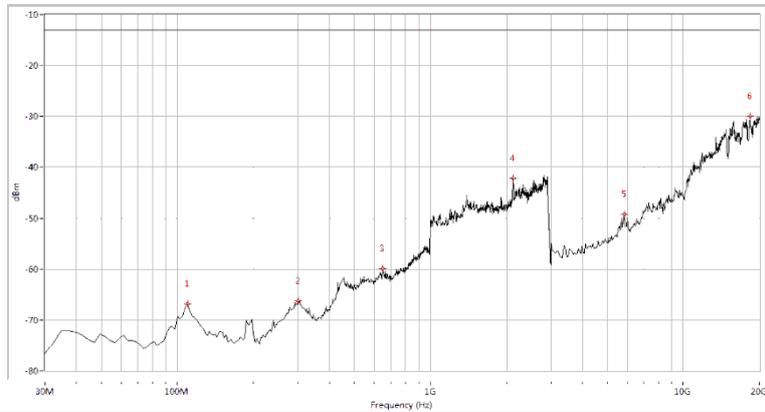
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.65	-13.0	54.7	210.7	Horizontal	<u>PASS</u>
298.504	-66.69	-13.0	53.7	-0.0	Horizontal	<u>PASS</u>
446.060	-61.99	-13.0	49.0	253.4	Horizontal	<u>PASS</u>
1299.252	-47.29	-13.0	34.3	350.1	Horizontal	<u>PASS</u>
2132.170	-43.20	-13.0	30.2	142.3	Horizontal	<u>PASS</u>
15675.810	-31.09	-13.0	18.1	142.3	Horizontal	<u>PASS</u>



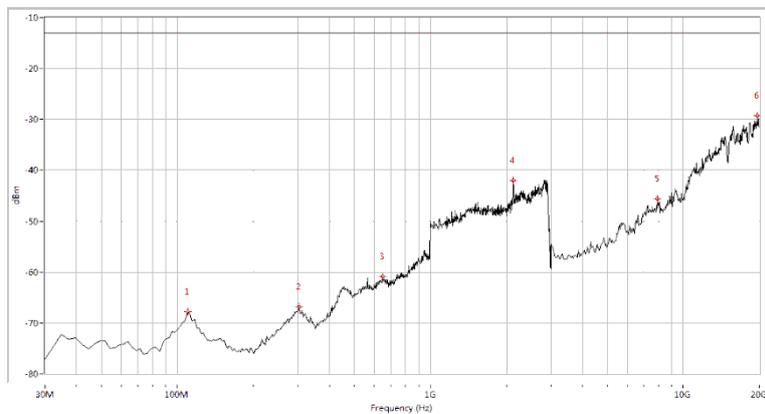
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.93	-13.0	54.9	152.2	Vertical	<u>PASS</u>
293.666	-67.10	-13.0	54.1	274.5	Vertical	<u>PASS</u>
637.157	-61.02	-13.0	48.0	97.6	Vertical	<u>PASS</u>
2132.170	-41.73	-13.0	28.7	21.0	Vertical	<u>PASS</u>
5755.611	-50.53	-13.0	37.5	130.3	Vertical	<u>PASS</u>
18304.239	-29.84	-13.0	16.8	360.0	Vertical	<u>PASS</u>



LTE Band 4 15MHz BW, Mid Channel, 16QAM



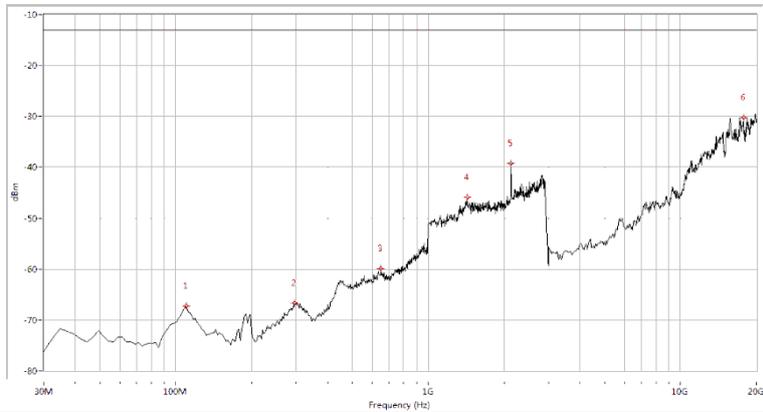
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-66.83	-13.0	53.8	158.7	Horizontal	<u>PASS</u>
300.923	-66.29	-13.0	53.3	47.2	Horizontal	<u>PASS</u>
649.252	-59.87	-13.0	46.9	0.4	Horizontal	<u>PASS</u>
2122.195	-42.20	-13.0	29.2	250.6	Horizontal	<u>PASS</u>
5840.399	-49.17	-13.0	36.2	260.6	Horizontal	<u>PASS</u>
18389.027	-30.00	-13.0	17.0	105.6	Horizontal	<u>PASS</u>



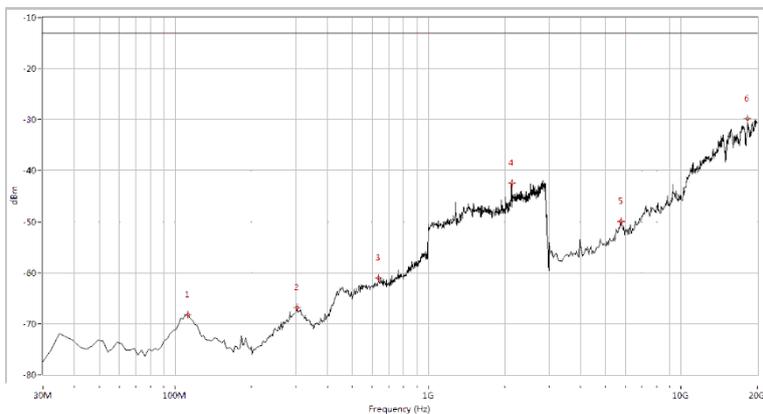
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.80	-13.0	54.8	82.4	Vertical	<u>PASS</u>
303.342	-66.85	-13.0	53.8	173.9	Vertical	<u>PASS</u>
649.252	-60.86	-13.0	47.9	232.0	Vertical	<u>PASS</u>
2132.170	-41.97	-13.0	29.0	333.2	Vertical	<u>PASS</u>
7917.706	-45.62	-13.0	32.6	16.2	Vertical	<u>PASS</u>
19576.060	-29.31	-13.0	16.3	172.9	Vertical	<u>PASS</u>



LTE Band 4 20MHz BW, Mid Channel, QPSK



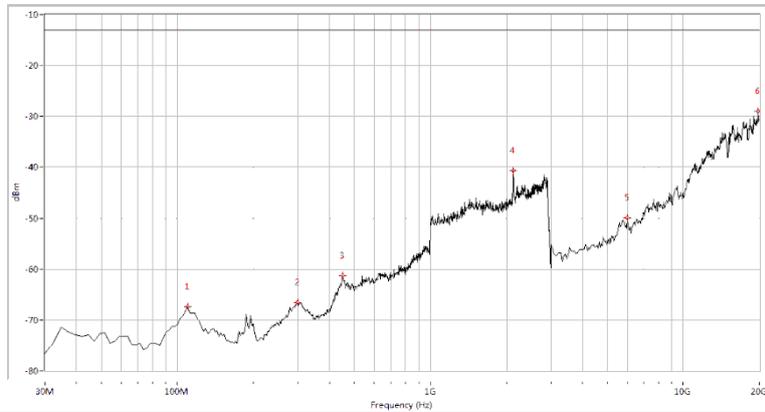
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.25	-13.0	54.3	78.0	Horizontal	<u>PASS</u>
296.085	-66.68	-13.0	53.7	245.0	Horizontal	<u>PASS</u>
649.252	-59.94	-13.0	46.9	0.3	Horizontal	<u>PASS</u>
1428.928	-45.84	-13.0	32.8	-0.0	Horizontal	<u>PASS</u>
2132.170	-39.31	-13.0	26.3	276.6	Horizontal	<u>PASS</u>
17795.511	-30.22	-13.0	17.2	130.0	Horizontal	<u>PASS</u>



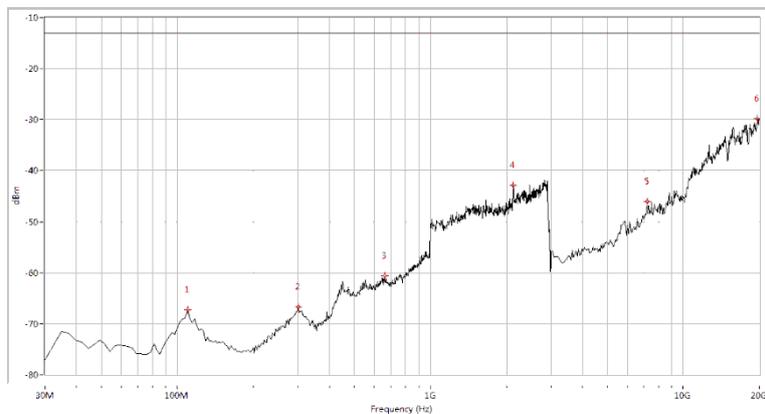
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
112.244	-68.16	-13.0	55.2	269.2	Vertical	<u>PASS</u>
303.342	-66.86	-13.0	53.9	248.0	Vertical	<u>PASS</u>
637.157	-60.96	-13.0	48.0	131.7	Vertical	<u>PASS</u>
2137.157	-42.44	-13.0	29.4	4.9	Vertical	<u>PASS</u>
5798.005	-49.98	-13.0	37.0	196.2	Vertical	<u>PASS</u>
18304.239	-29.89	-13.0	16.9	116.2	Vertical	<u>PASS</u>



LTE Band 4 20MHz BW, Mid Channel, 16QAM



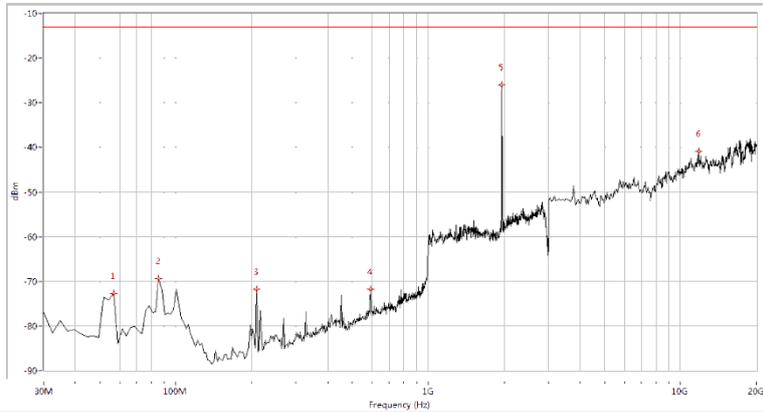
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.33	-13.0	54.3	60.3	Horizontal	<u>PASS</u>
298.504	-66.59	-13.0	53.6	27.9	Horizontal	<u>PASS</u>
450.898	-61.34	-13.0	48.3	-0.0	Horizontal	<u>PASS</u>
2132.170	-40.57	-13.0	27.6	145.7	Horizontal	<u>PASS</u>
6009.975	-49.95	-13.0	37.0	9.1	Horizontal	<u>PASS</u>
19788.030	-29.02	-13.0	16.0	360.0	Horizontal	<u>PASS</u>



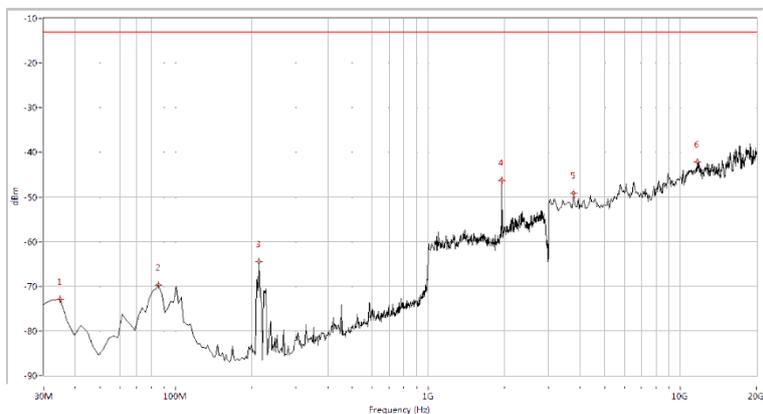
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
109.825	-67.23	-13.0	54.2	1.9	Vertical	<u>PASS</u>
300.923	-66.71	-13.0	53.7	47.6	Vertical	<u>PASS</u>
658.928	-60.64	-13.0	47.6	108.8	Vertical	<u>PASS</u>
2132.170	-42.82	-13.0	29.8	291.8	Vertical	<u>PASS</u>
7197.007	-46.02	-13.0	33.0	301.2	Vertical	<u>PASS</u>
19660.848	-29.84	-13.0	16.8	244.7	Vertical	<u>PASS</u>



LTE Band 2 1.4MHz BW, Mid Channel, QPSK



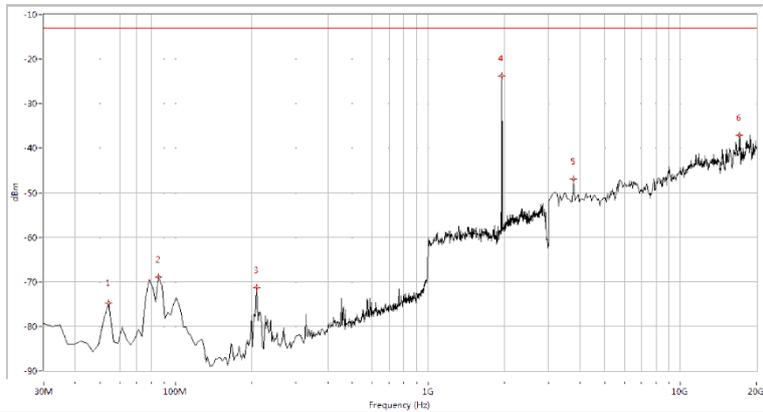
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
56.608	-72.67	-13.0	59.7	63.8	Horizontal	PASS
85.636	-69.44	-13.0	56.4	46.7	Horizontal	PASS
209.002	-71.83	-13.0	58.8	360.0	Horizontal	PASS
591.197	-71.73	-13.0	58.7	232.9	Horizontal	PASS
1957.606	-26.07	-13.0	13.1	93.5	Horizontal	N.A
11817.955	-40.91	-13.0	27.9	-0.0	Horizontal	PASS



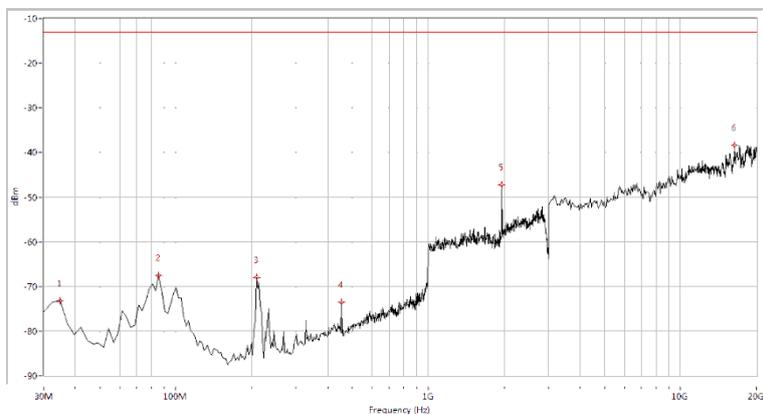
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-72.95	-13.0	59.9	132.2	Vertical	PASS
85.636	-69.71	-13.0	56.7	267.6	Vertical	PASS
213.840	-64.48	-13.0	51.5	51.8	Vertical	PASS
1957.606	-46.21	-13.0	33.2	306.2	Vertical	N.A
3763.092	-49.10	-13.0	36.1	98.4	Vertical	PASS
11648.379	-42.20	-13.0	29.2	275.9	Vertical	PASS



LTE Band 2 1.4MHz BW, Mid Channel, 16QAM



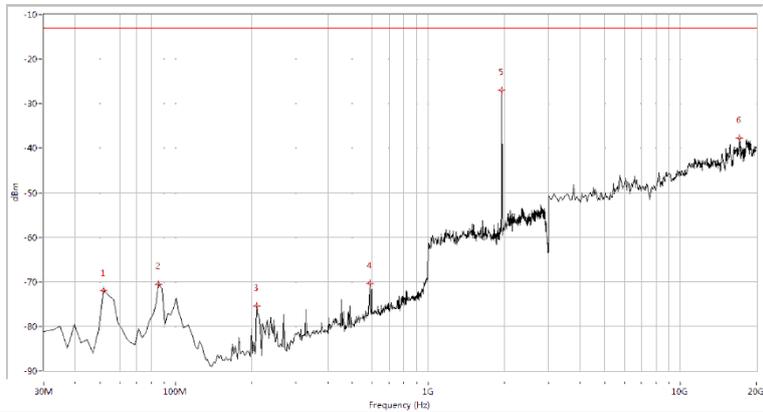
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
54.190	-74.80	-13.0	61.8	31.3	Horizontal	PASS
85.636	-68.95	-13.0	56.0	3.4	Horizontal	PASS
209.002	-71.36	-13.0	58.4	360.0	Horizontal	PASS
1957.606	-23.75	-13.0	10.7	266.6	Horizontal	N.A
3763.092	-46.99	-13.0	34.0	360.0	Horizontal	PASS
17159.601	-37.11	-13.0	24.1	39.1	Horizontal	PASS



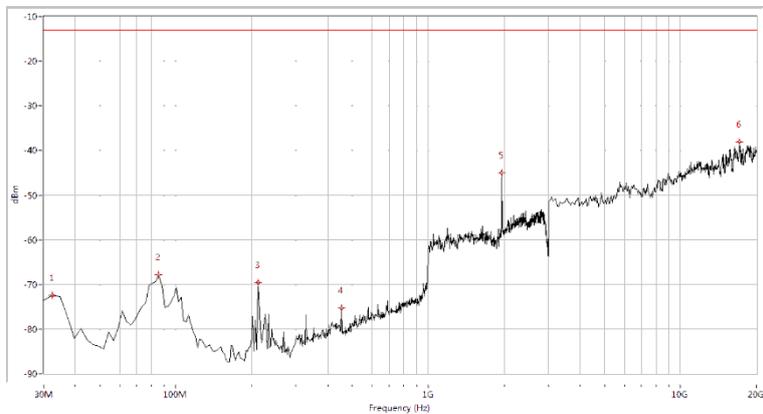
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-73.29	-13.0	60.3	196.1	Vertical	PASS
85.636	-67.44	-13.0	54.4	18.3	Vertical	PASS
209.002	-67.91	-13.0	54.9	108.5	Vertical	PASS
453.317	-73.52	-13.0	60.5	112.2	Vertical	PASS
1957.606	-47.25	-13.0	34.2	360.0	Vertical	N.A
16396.509	-38.40	-13.0	25.4	360.0	Vertical	PASS



LTE Band 2 3MHz BW, Mid Channel, QPSK



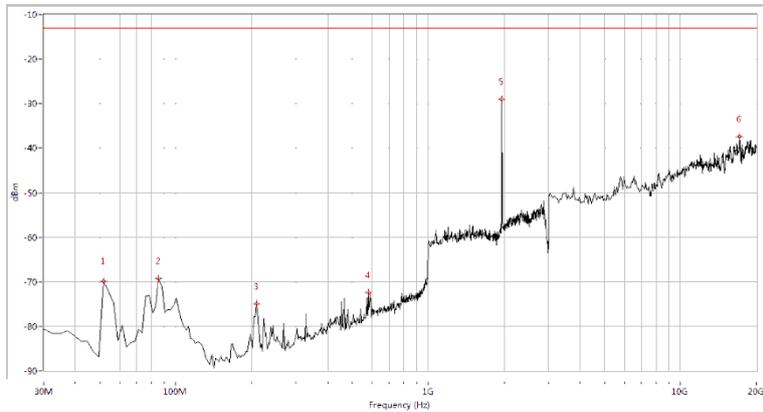
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
51.771	-71.89	-13.0	58.9	86.4	Horizontal	PASS
85.636	-70.47	-13.0	57.5	129.5	Horizontal	PASS
209.002	-75.41	-13.0	62.4	181.8	Horizontal	PASS
586.359	-70.32	-13.0	57.3	0.1	Horizontal	PASS
1957.606	-26.99	-13.0	14.0	125.4	Horizontal	N.A
17159.601	-37.71	-13.0	24.7	-0.0	Horizontal	PASS



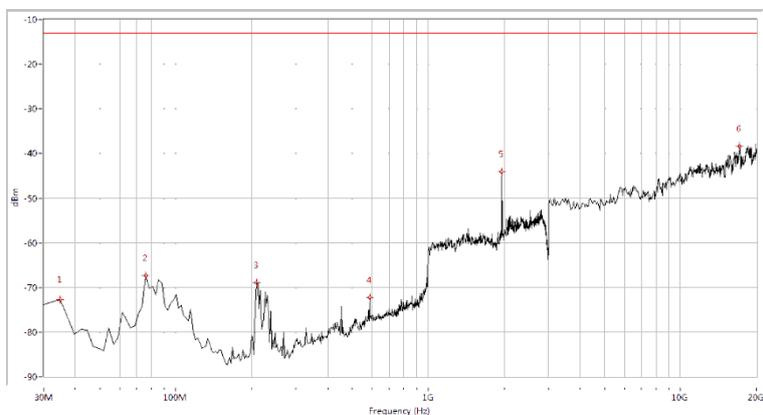
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-72.39	-13.0	59.4	186.7	Vertical	PASS
85.636	-67.82	-13.0	54.8	80.7	Vertical	PASS
211.421	-69.61	-13.0	56.6	259.2	Vertical	PASS
453.317	-75.24	-13.0	62.2	266.2	Vertical	PASS
1957.606	-44.94	-13.0	31.9	-0.0	Vertical	N.A
17159.601	-37.98	-13.0	25.0	268.6	Vertical	PASS



LTE Band 2 3MHz BW, Mid Channel, 16QAM



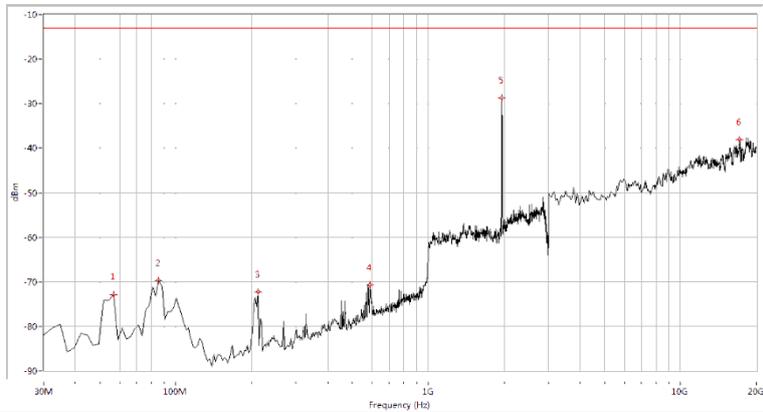
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
51.771	-69.92	-13.0	56.9	360.0	Horizontal	PASS
85.636	-69.31	-13.0	56.3	201.1	Horizontal	PASS
209.002	-74.95	-13.0	62.0	-0.0	Horizontal	PASS
579.102	-72.36	-13.0	59.4	171.2	Horizontal	PASS
1957.606	-28.95	-13.0	16.0	277.7	Horizontal	N.A
17117.207	-37.35	-13.0	24.4	-0.0	Horizontal	PASS



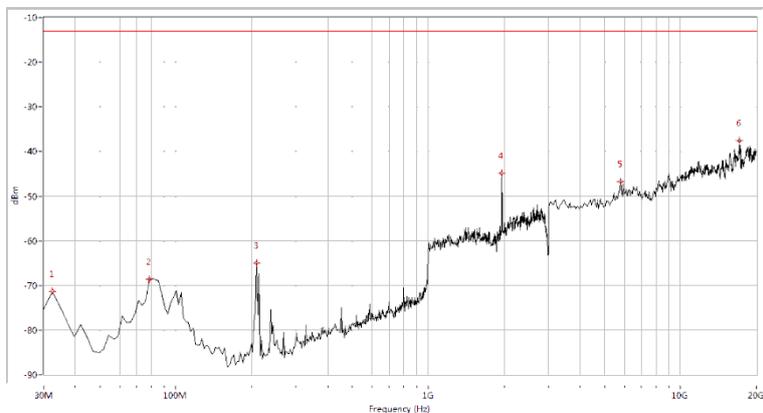
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-72.68	-13.0	59.7	57.1	Vertical	PASS
75.960	-67.42	-13.0	54.4	307.1	Vertical	PASS
209.002	-68.99	-13.0	56.0	97.1	Vertical	PASS
586.359	-72.22	-13.0	59.2	59.2	Vertical	PASS
1957.606	-44.01	-13.0	31.0	133.3	Vertical	N.A
17159.601	-38.36	-13.0	25.4	43.3	Vertical	PASS



LTE Band 2 5MHz BW, Mid Channel, QPSK



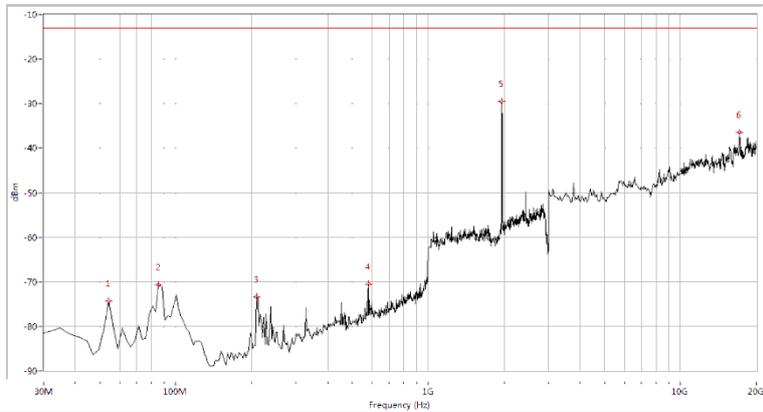
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
56.608	-72.87	-13.0	59.9	56.2	Horizontal	PASS
85.636	-69.68	-13.0	56.7	199.4	Horizontal	PASS
211.421	-72.26	-13.0	59.3	335.7	Horizontal	PASS
586.359	-70.67	-13.0	57.7	263.5	Horizontal	PASS
1957.606	-28.67	-13.0	15.7	166.6	Horizontal	N.A
17159.601	-38.04	-13.0	25.0	74.8	Horizontal	PASS



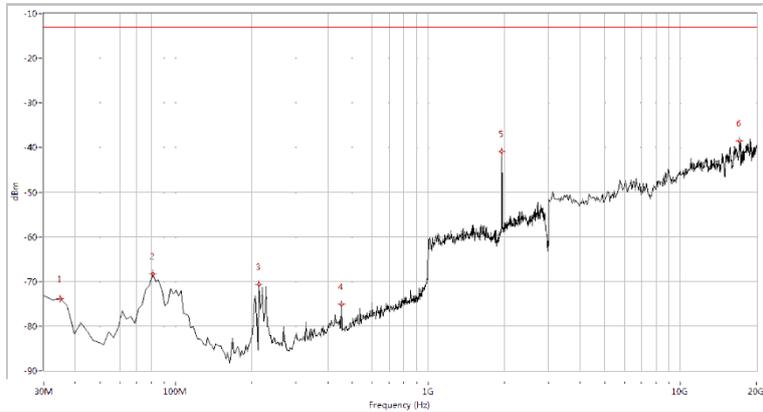
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-71.29	-13.0	58.3	312.6	Vertical	PASS
78.379	-68.54	-13.0	55.5	21.3	Vertical	PASS
209.002	-65.03	-13.0	52.0	229.9	Vertical	PASS
1957.606	-44.89	-13.0	31.9	87.5	Vertical	N.A
5798.005	-46.72	-13.0	33.7	19.6	Vertical	PASS
17159.601	-37.49	-13.0	24.5	-0.0	Vertical	PASS



LTE Band 2 5MHz BW, Mid Channel, 16QAM



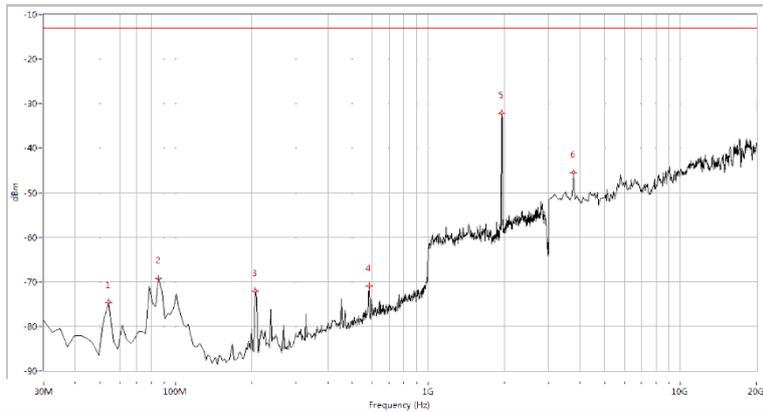
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
54.190	-74.27	-13.0	61.3	174.4	Horizontal	PASS
85.636	-70.64	-13.0	57.6	94.1	Horizontal	PASS
209.002	-73.42	-13.0	60.4	275.9	Horizontal	PASS
581.521	-70.59	-13.0	57.6	354.1	Horizontal	PASS
1957.606	-29.44	-13.0	16.4	33.2	Horizontal	N.A
17159.601	-36.40	-13.0	23.4	81.1	Horizontal	PASS



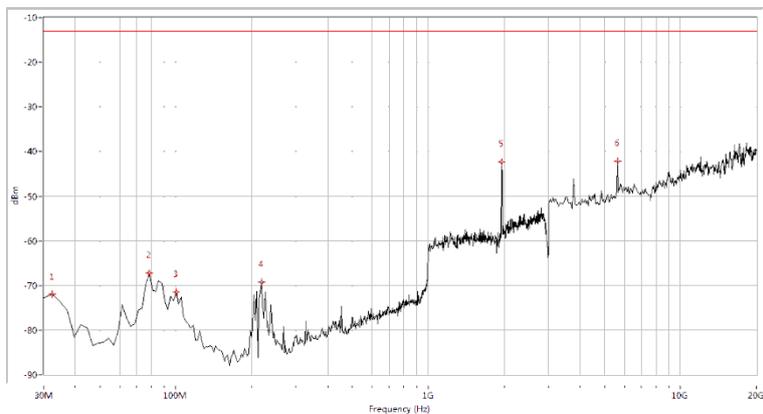
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-73.85	-13.0	60.8	346.6	Vertical	PASS
80.798	-68.35	-13.0	55.4	262.6	Vertical	PASS
213.840	-70.62	-13.0	57.6	343.2	Vertical	PASS
453.317	-75.17	-13.0	62.2	360.0	Vertical	PASS
1957.606	-40.93	-13.0	27.9	131.4	Vertical	N.A
17117.207	-38.59	-13.0	25.6	131.4	Vertical	PASS



LTE Band 2 10MHz BW, Mid Channel, QPSK



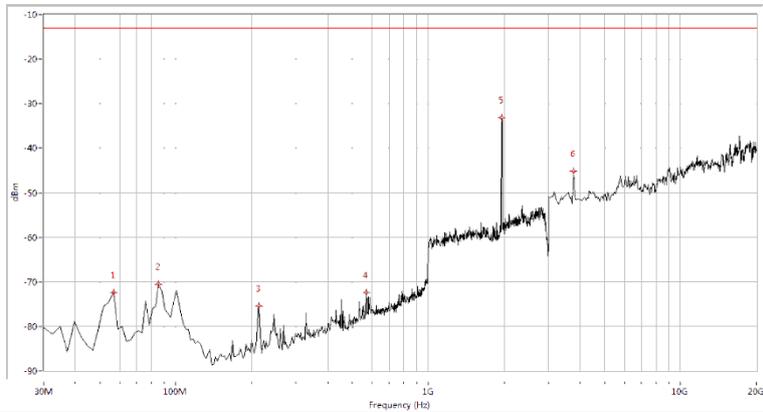
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
54.190	-74.66	-13.0	61.7	105.7	Horizontal	PASS
85.636	-69.18	-13.0	56.2	350.1	Horizontal	PASS
206.584	-72.09	-13.0	59.1	330.9	Horizontal	PASS
583.940	-71.06	-13.0	58.1	47.1	Horizontal	PASS
1957.606	-32.23	-13.0	19.2	330.3	Horizontal	N.A
3763.092	-45.55	-13.0	32.6	91.9	Horizontal	PASS



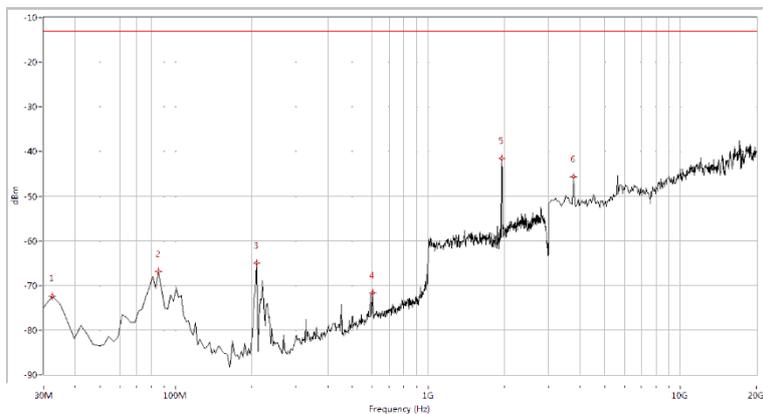
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-71.93	-13.0	58.9	197.1	Vertical	PASS
78.379	-67.19	-13.0	54.2	208.3	Vertical	PASS
100.150	-71.53	-13.0	58.5	230.8	Vertical	PASS
218.678	-69.27	-13.0	56.3	316.0	Vertical	PASS
1957.606	-42.31	-13.0	29.3	32.1	Vertical	N.A
5628.429	-42.16	-13.0	29.2	135.8	Vertical	PASS



LTE Band 2 10MHz BW, Mid Channel, 16QAM



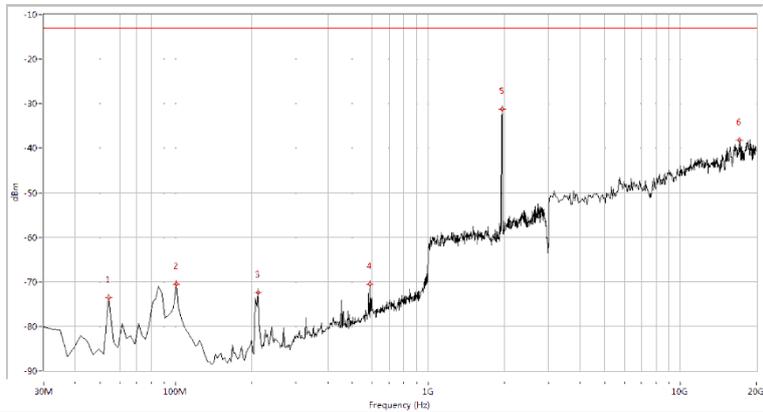
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
56.608	-72.36	-13.0	59.4	57.2	Horizontal	PASS
85.636	-70.51	-13.0	57.5	190.4	Horizontal	PASS
213.840	-75.47	-13.0	62.5	0.4	Horizontal	PASS
569.426	-72.46	-13.0	59.5	110.5	Horizontal	PASS
1957.606	-33.16	-13.0	20.2	99.2	Horizontal	N.A
3763.092	-45.09	-13.0	32.1	333.9	Horizontal	PASS



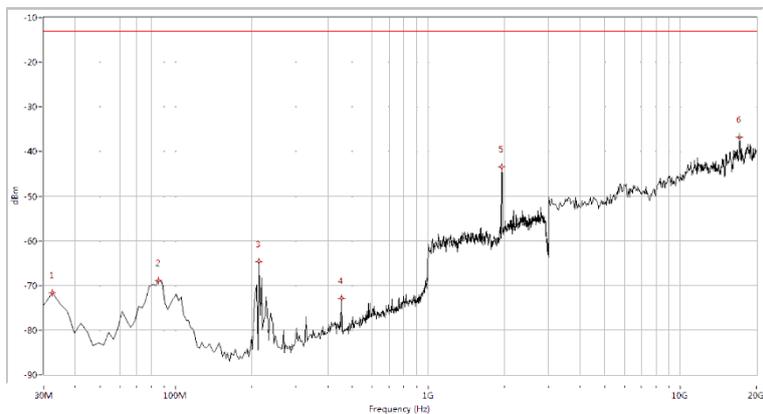
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-72.48	-13.0	59.5	-0.0	Vertical	PASS
85.636	-66.83	-13.0	53.8	262.8	Vertical	PASS
209.002	-64.90	-13.0	51.9	108.6	Vertical	PASS
603.292	-71.56	-13.0	58.6	184.9	Vertical	PASS
1957.606	-41.50	-13.0	28.5	83.1	Vertical	N.A
3763.092	-45.61	-13.0	32.6	-0.0	Vertical	PASS



LTE Band 2 15MHz BW, Mid Channel, QPSK



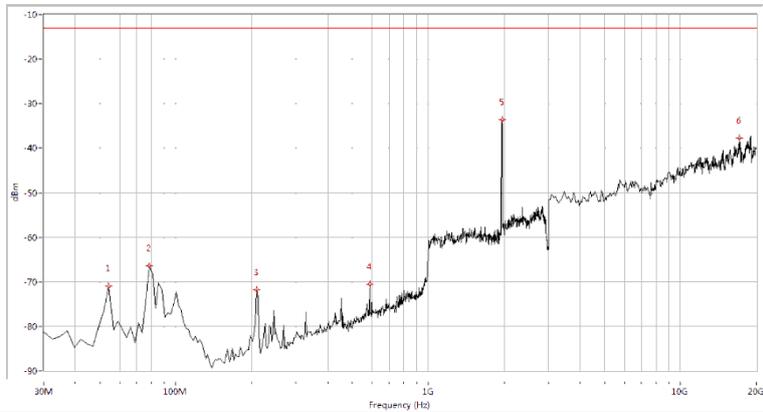
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
54.190	-73.46	-13.0	60.5	210.7	Horizontal	PASS
100.150	-70.50	-13.0	57.5	-0.0	Horizontal	PASS
211.421	-72.47	-13.0	59.5	253.4	Horizontal	PASS
588.778	-70.57	-13.0	57.6	350.1	Horizontal	PASS
1962.594	-31.28	-13.0	18.3	142.3	Horizontal	N.A
17159.601	-38.15	-13.0	25.2	142.3	Horizontal	PASS



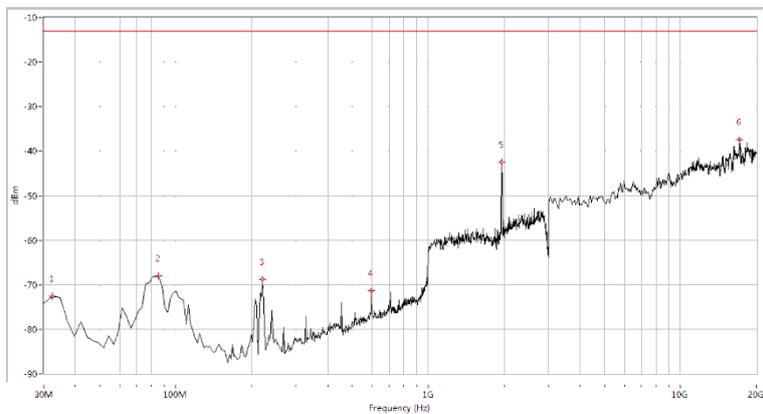
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-71.64	-13.0	58.6	23.4	Vertical	PASS
85.636	-68.97	-13.0	56.0	230.1	Vertical	PASS
213.840	-64.61	-13.0	51.6	13.4	Vertical	PASS
453.317	-72.95	-13.0	60.0	53.0	Vertical	PASS
1957.606	-43.35	-13.0	30.3	30.1	Vertical	N.A
17159.601	-36.72	-13.0	23.7	253.4	Vertical	PASS



LTE Band 2 15MHz BW, Mid Channel, 16QAM



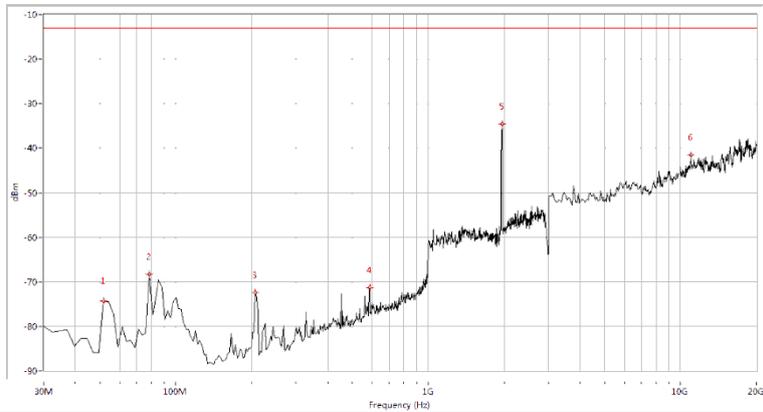
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
54.190	-71.00	-13.0	58.0	158.7	Horizontal	PASS
78.379	-66.34	-13.0	53.3	47.2	Horizontal	PASS
209.002	-71.75	-13.0	58.7	0.4	Horizontal	PASS
586.359	-70.56	-13.0	57.6	250.6	Horizontal	PASS
1962.594	-33.63	-13.0	20.6	260.6	Horizontal	N.A
17159.601	-37.71	-13.0	24.7	105.6	Horizontal	PASS



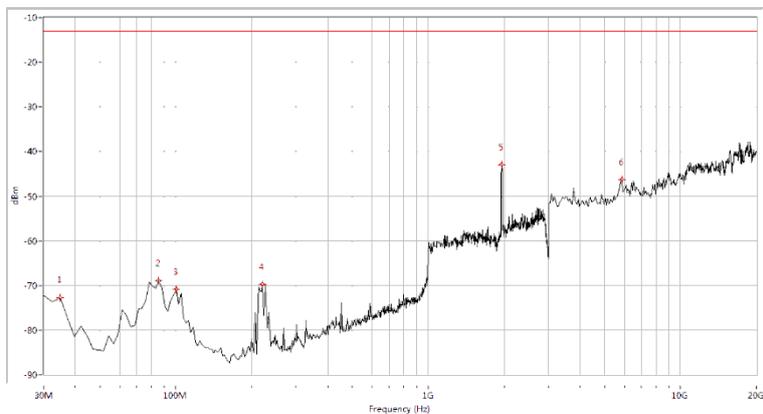
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-72.55	-13.0	59.5	82.4	Vertical	PASS
85.636	-67.96	-13.0	55.0	173.9	Vertical	PASS
221.097	-68.74	-13.0	55.7	232.0	Vertical	PASS
596.035	-71.34	-13.0	58.3	333.2	Vertical	PASS
1952.618	-42.53	-13.0	29.5	16.2	Vertical	N.A
17159.601	-37.47	-13.0	24.5	172.9	Vertical	PASS



LTE Band 2 20MHz BW, Mid Channel, QPSK



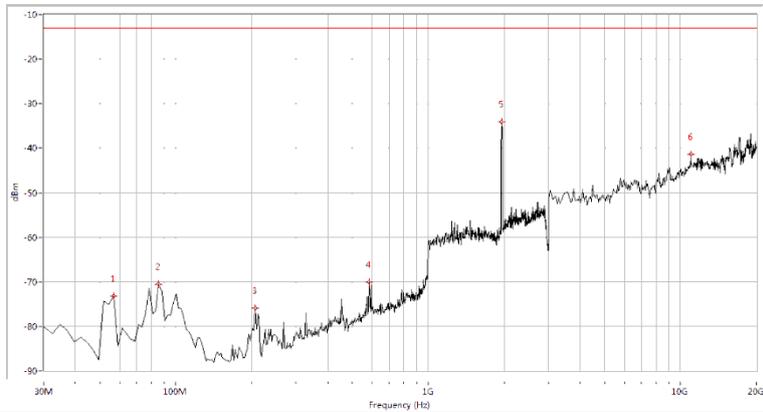
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
51.771	-74.29	-13.0	61.3	78.0	Horizontal	PASS
78.379	-68.32	-13.0	55.3	245.0	Horizontal	PASS
206.584	-72.36	-13.0	59.4	0.3	Horizontal	PASS
586.359	-71.30	-13.0	58.3	-0.0	Horizontal	PASS
1967.581	-34.60	-13.0	21.6	276.6	Horizontal	N.A
10970.075	-41.54	-13.0	28.5	130.0	Horizontal	PASS



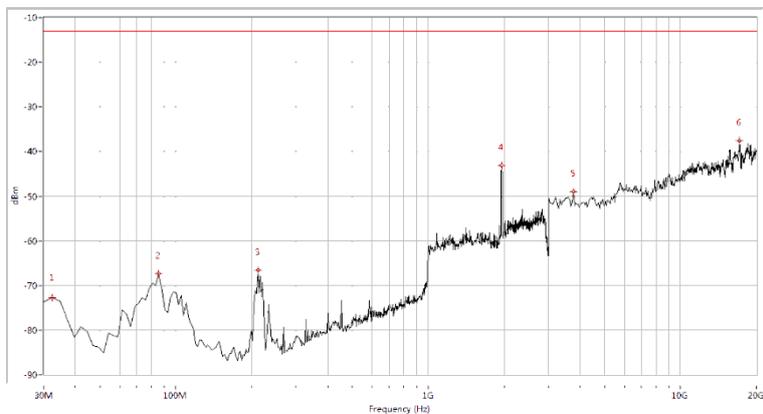
Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
34.838	-72.78	-13.0	59.8	269.2	Vertical	PASS
85.636	-68.88	-13.0	55.9	248.0	Vertical	PASS
100.150	-70.86	-13.0	57.9	131.7	Vertical	PASS
221.097	-69.76	-13.0	56.8	4.9	Vertical	PASS
1957.606	-42.97	-13.0	30.0	196.2	Vertical	N.A
5840.399	-46.29	-13.0	33.3	116.2	Vertical	PASS



LTE Band 2 20MHz BW, Mid Channel, 16QAM



Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
56.608	-73.17	-13.0	60.2	60.3	Horizontal	PASS
85.636	-70.45	-13.0	57.5	27.9	Horizontal	PASS
206.584	-75.94	-13.0	62.9	-0.0	Horizontal	PASS
583.940	-70.07	-13.0	57.1	145.7	Horizontal	PASS
1957.606	-34.05	-13.0	21.1	9.1	Horizontal	N.A
10970.075	-41.38	-13.0	28.4	360.0	Horizontal	PASS



Fre. (MHz)	Peak	Limit(PK)	Margin	Degree	Antenna	Verdict
32.419	-72.78	-13.0	59.8	1.9	Vertical	PASS
85.636	-67.38	-13.0	54.4	47.6	Vertical	PASS
211.421	-66.52	-13.0	53.5	108.8	Vertical	PASS
1952.618	-43.15	-13.0	30.1	291.8	Vertical	N.A
3763.092	-48.93	-13.0	35.9	301.2	Vertical	PASS
17159.601	-37.53	-13.0	24.5	244.7	Vertical	PASS

\*\*\*\*\* END OF REPORT \*\*\*\*\*