

6. Emission on the Band Edge

6.1 Test conditions

Temperature:	20	°C
Relative Humidity:	55	%
Atmospheric Pressure	1008	hPa

6.2 Limit for emission on the band edge

For operations in the 776 - 788 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

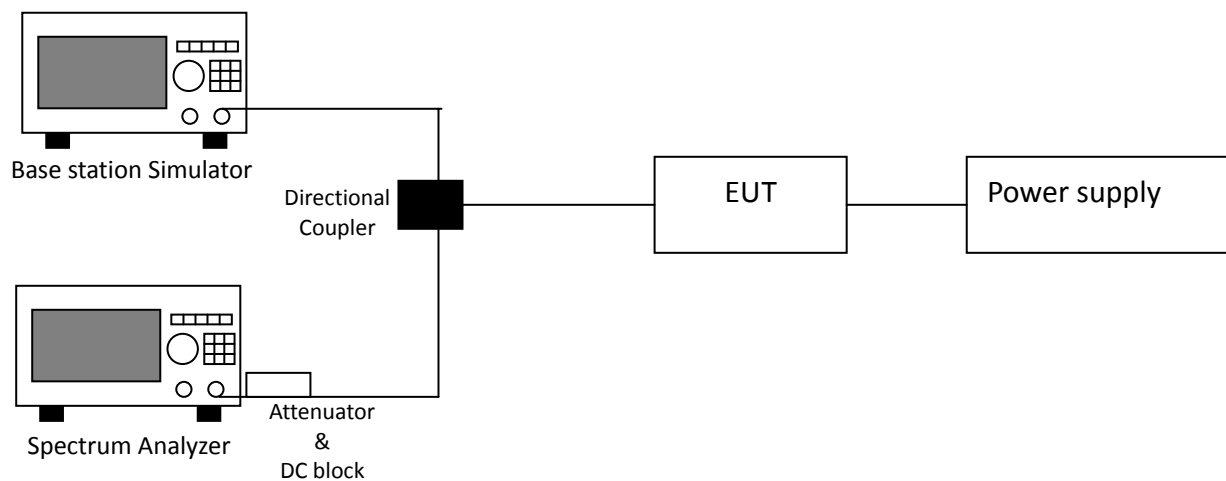
For operations in the 763 - 775 and 793 - 805 MHz band, the FCC limit is $65 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 6.25 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

For operations in the 1710 – 1755 MHz band, the limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

6.3 Test procedure

1. The EUT was set up for the maximum peak power with LTE link data modulation.
The power was measured with Spectrum Analyzer. All measurements were done at 2 channels (lowest and highest operating channel for each band.).
2. The band edge measurement used the directional coupler via EUT RF power connector between Base station Simulator and spectrum analyzer.
3. Set the spectrum analyzer span to include the block edge frequency.
4. Set a marker to point the corresponding band edge frequency in each band.
5. Record the max trace plot into the test report.

6.4 Test diagram

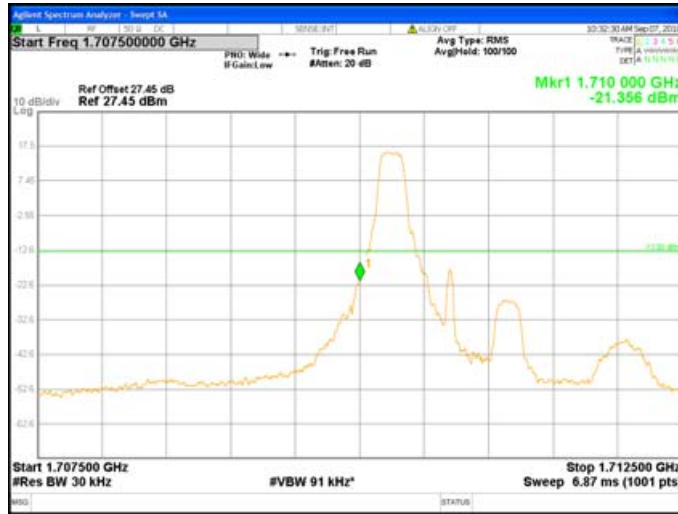


6.5 Test results

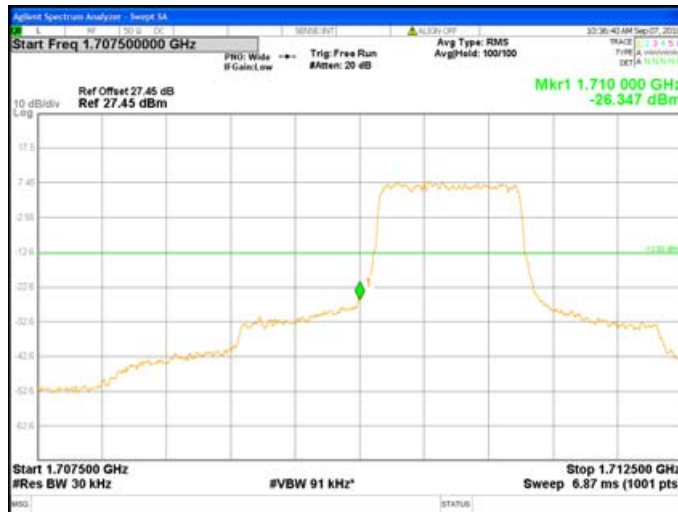
Operating Band	Bandwidth (MHz)	Frequency Range	Frequency (MHz)	Modulation method	RB (FDD)	Offset RB	Limit	Test Plot
LTE Band 4	1.4MHz	Low Range	1710.7	QPSK	1	0	(30MHz ≤ f < 1GHz) < -13 (1GHz ≤ f < 20GHz) < -13 Note : 763-775MHz and 793-805MHz < -35 for Band13	1
					6	0		2
				16-QAM	1	0		3
					6	0		4
		High Range	1754.3	QPSK	1	5		5
					6	0		6
				16-QAM	1	5		7
					6	0		8
	3MHz	Low Range	1711.5	QPSK	1	0		9
					15	0		10
				16-QAM	1	0		11
					15	0		12
		High Range	1753.5	QPSK	1	14		13
					15	0		14
				16-QAM	1	14		15
					15	0		16
	5MHz	Low Range	1712.5	QPSK	1	0		17
					25	0		18
				16-QAM	1	0		19
					25	0		20
		High Range	1752.5	QPSK	1	24		21
					25	0		22
				16-QAM	1	24		23
					25	0		24
	10MHz	Low Range	1715	QPSK	1	0		25
					50	0		26
				16-QAM	1	0		27
					50	0		28
		High Range	1750	QPSK	1	49		29
					50	0		30
				16-QAM	1	49		31
					50	0		32
	15MHz	Low Range	1717.5	QPSK	1	0		33
					75	0		34
				16-QAM	1	0		35
					75	0		36
		High Range	1747.5	QPSK	1	74		37
					75	0		38
				16-QAM	1	74		39
					75	0		40

Operating Band	Bandwidth (MHz)	Frequency Range	Frequency (MHz)	Modulation method	RB (FDD)	Offset RB	Limit	Test Plot
LTE Band 4	20MHz	Low Range	1720	QPSK	1	0		41
					100	0		42
				16-QAM	1	0		43
					100	0		44
		High Range	1745	QPSK	1	99		45
					100	0		46
				16-QAM	1	99		47
					100	0		48
LTE Band 13	5MHz	Low Range	779.5	QPSK	1	0	(30MHz ≤ f < 1GHz) < -13 (1GHz ≤ f < 20GHz) < -13 Note : 763-775MHz and 793-805MHz < -35 for Band13	49 、 50
					25	0		51 、 52
				16-QAM	1	0		53 、 54
					25	0		55 、 56
		High Range	784.5	QPSK	1	24		57 、 58
					25	0		59 、 60
				16-QAM	1	24		61 、 62
					25	0		63 、 64
	10MHz	L/H Range	782	QPSK	1	0	65 、 66	
					50	0	67 、 68	
					16-QAM	1	0	69 、 70
						50	0	71 、 72
				QPSK	1	49	73 、 74	
					50	0	75 、 76	
					16-QAM	1	49	77 、 78
						50	0	79 、 80

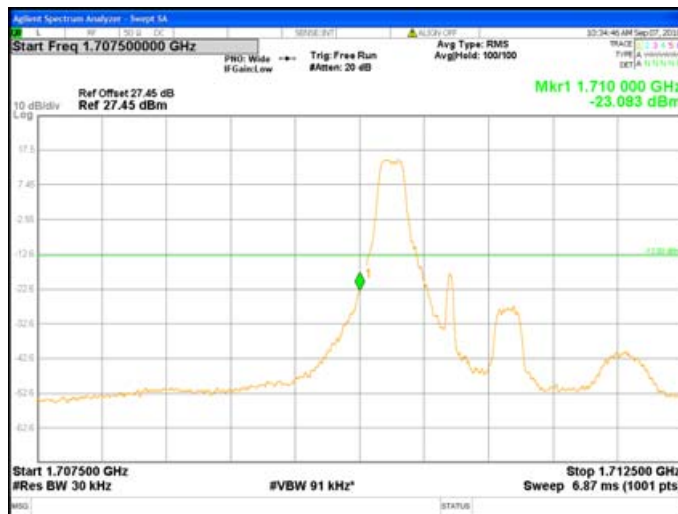
Band Edge 01-1.4 MHz-1 RB-0 OFFSET RB-1710.7-QPSK



Band Edge 02-1.4 MHz-6 RB-0 OFFSET RB-1710.7-QPSK



Band Edge 03-1.4 MHz-1 RB-0 OFFSET RB-1710.7-16QAM



Band Edge 04-1.4 MHz-6 RB-0 OFFSET RB-1710.7-16QAM



Band Edge 05-1.4 MHz-1 RB-5 OFFSET RB-1754.3-QPSK



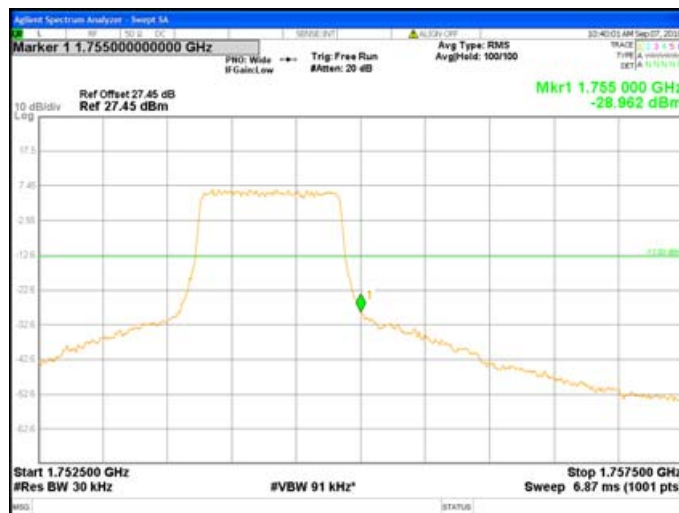
Band Edge 06-1.4 MHz-6 RB-0 OFFSET RB-1754.3-QPSK



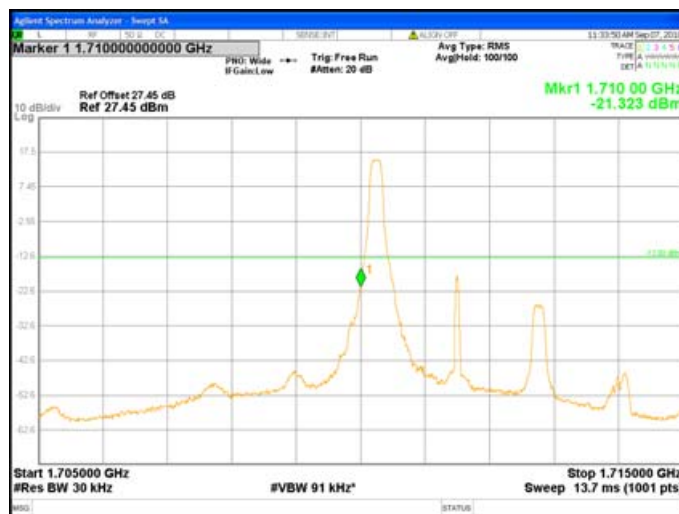
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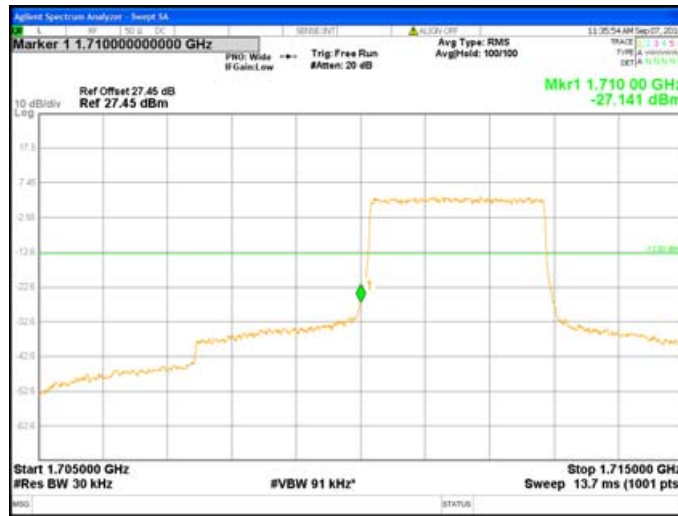
Band Edge 08-1.4 MHz-6 RB-0 OFFSET RB-1754.3-16QAM



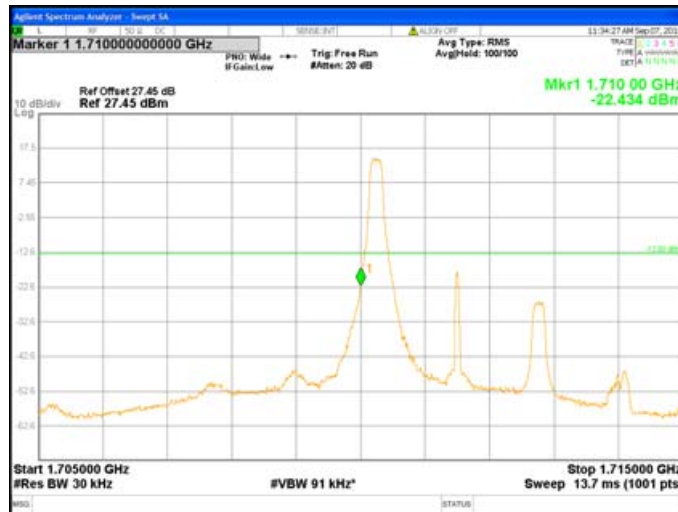
Band Edge 09-3 MHz-1 RB-0 OFFSET RB-1711.5-QPSK



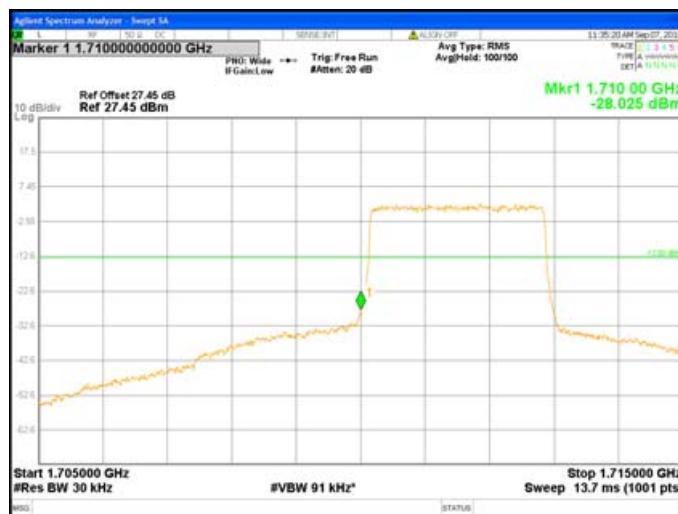
Band Edge 10-3 MHz-15 RB-0 OFFSET RB-1711.5-QPSK



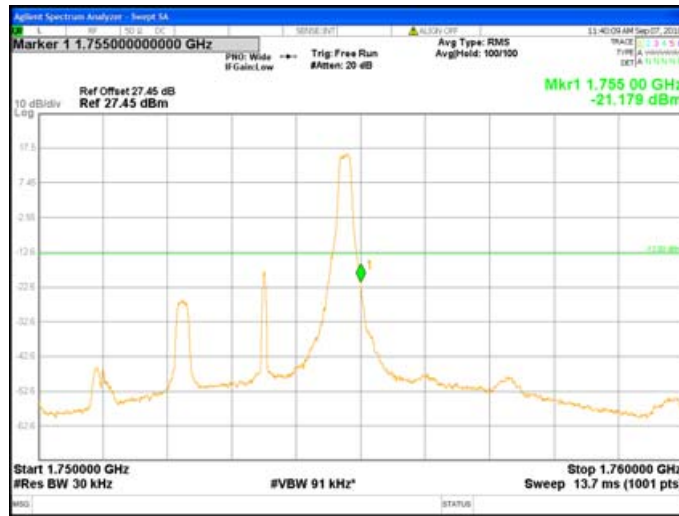
Band Edge 11-3 MHz-1 RB-0 OFFSET RB-1711.5-16QAM



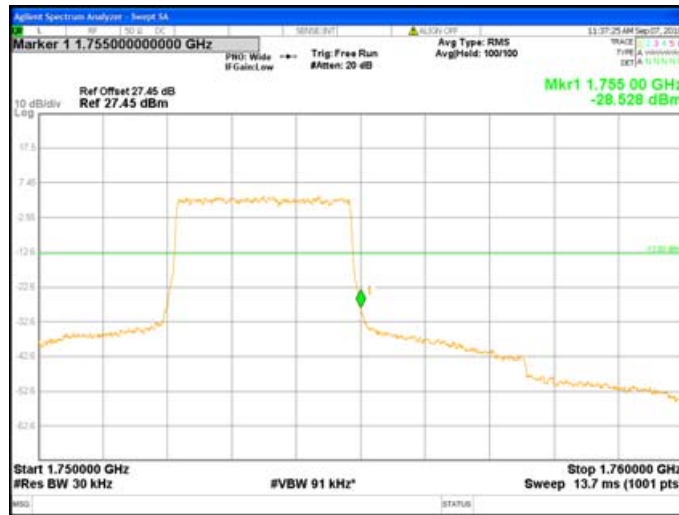
Band Edge 12-3 MHz-15 RB-0 OFFSET RB-1711.5-16QAM



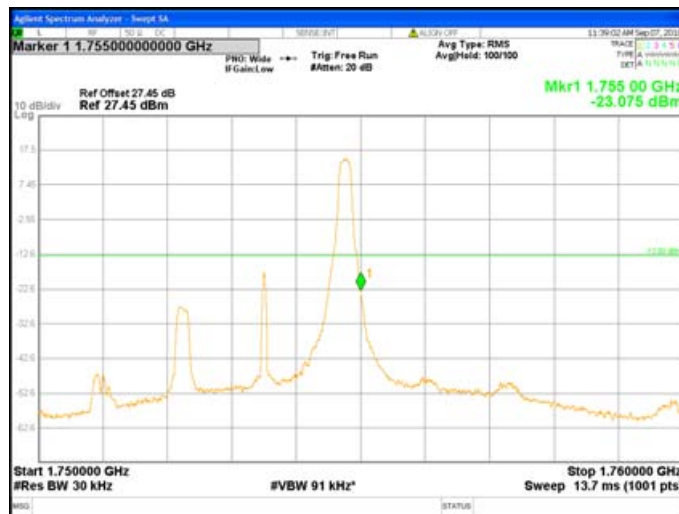
Band Edge 13-3 MHz-1 RB-14 OFFSET RB-1753.5-QPSK



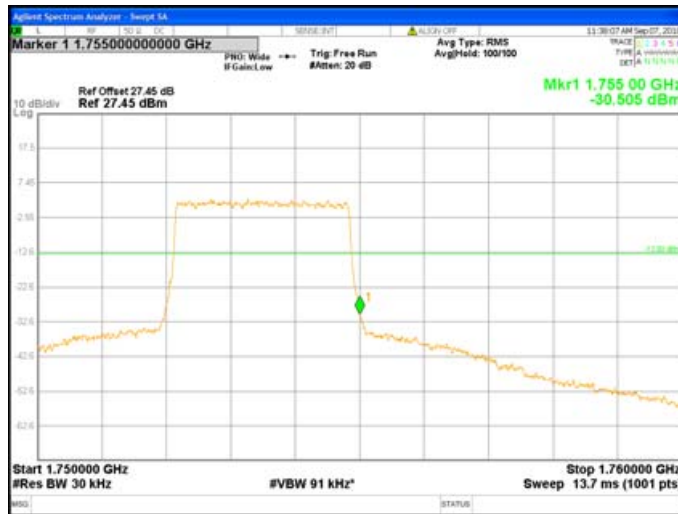
Band Edge 14-3 MHz-15 RB-0 OFFSET RB-1753.5-QPSK



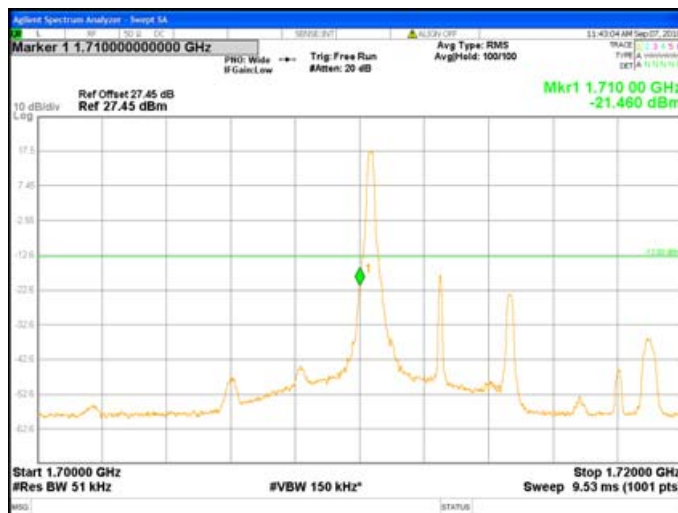
Band Edge 15-3 MHz-1 RB-14 OFFSET RB-1753.5-16QAM



Band Edge 16-3 MHz-15 RB-0 OFFSET RB-1753.5-16QAM



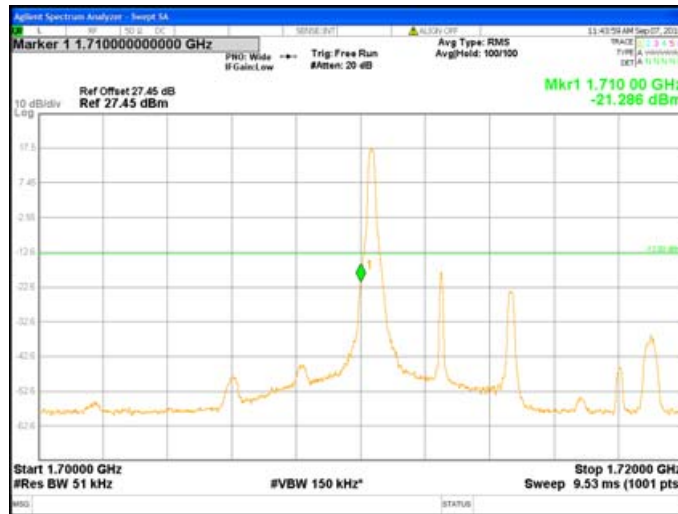
Band Edge 17-5 MHz-1 RB-0 OFFSET RB-1712.5-QPSK



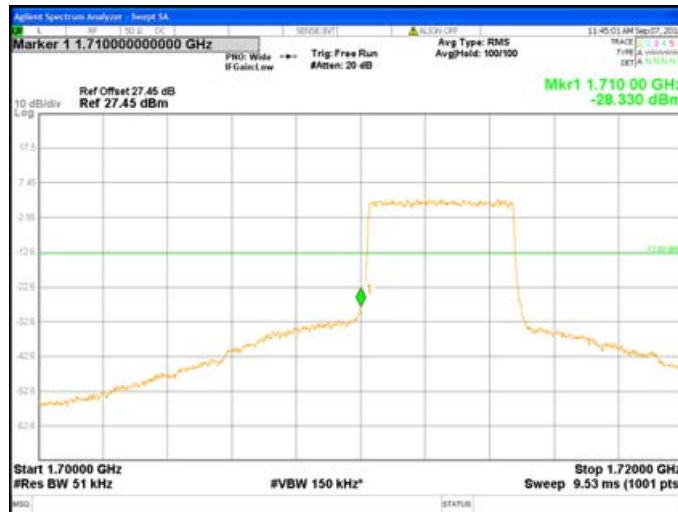
Band Edge 18-5 MHz-25 RB-0 OFFSET RB-1712.5-QPSK



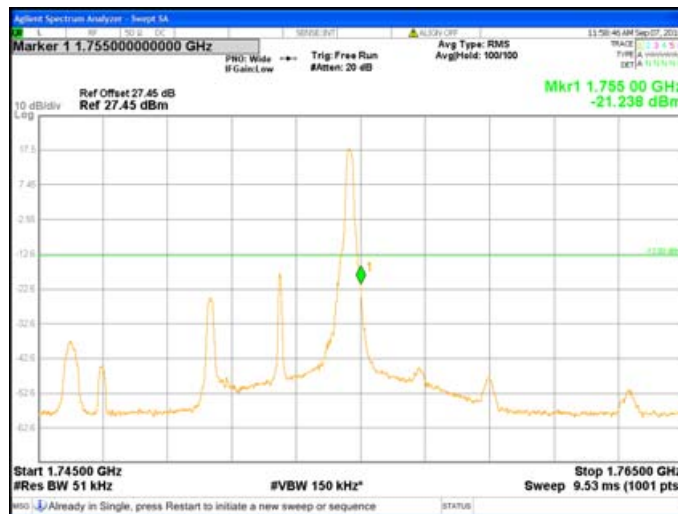
Band Edge 19-5 MHz-1 RB-0 OFFSET RB-1712.5-16QAM



Band Edge 20-5 MHz-25 RB-0 OFFSET RB-1712.5-16QAM



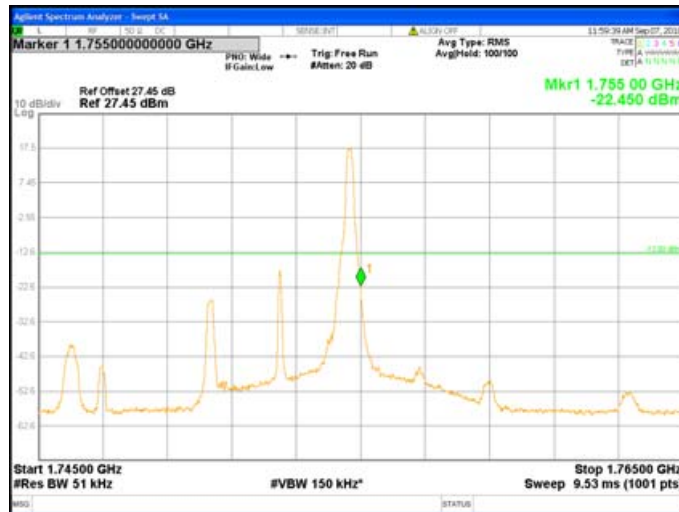
Band Edge 21-5 MHz-1 RB-24 OFFSET RB-1752.5-QPSK



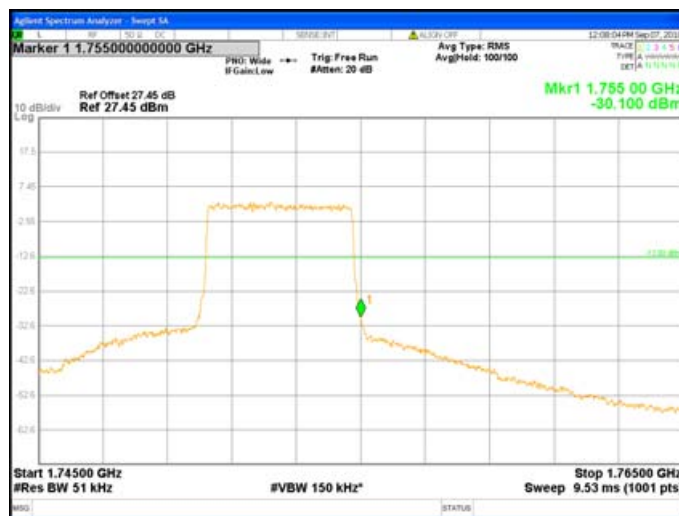
Band Edge 22-5 MHz-25 RB-0 OFFSET RB-1752.5-QPSK



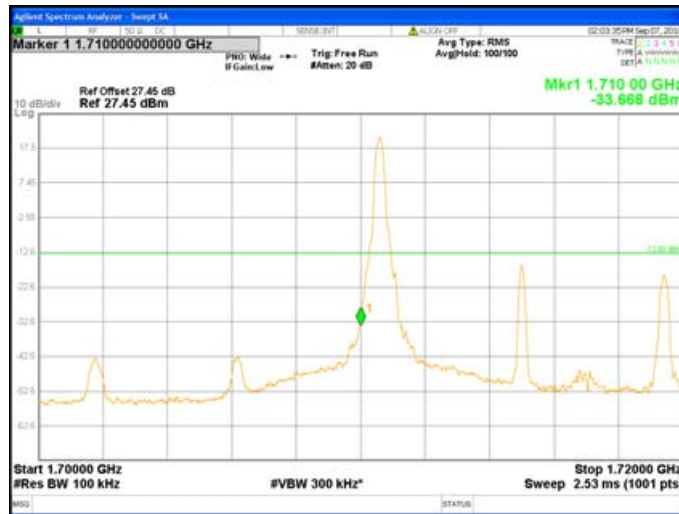
Band Edge 23-5 MHz-1 RB-24 OFFSET RB-1752.5-16QAM



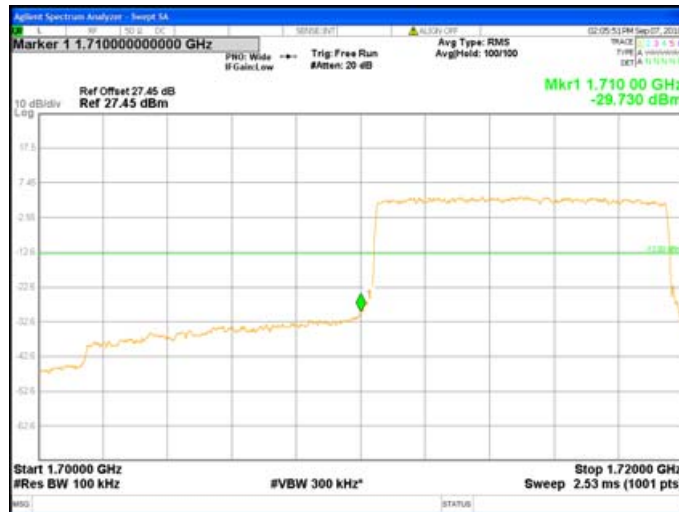
Band Edge 24-5 MHz-25 RB-0 OFFSET RB-1752.5-16QAM



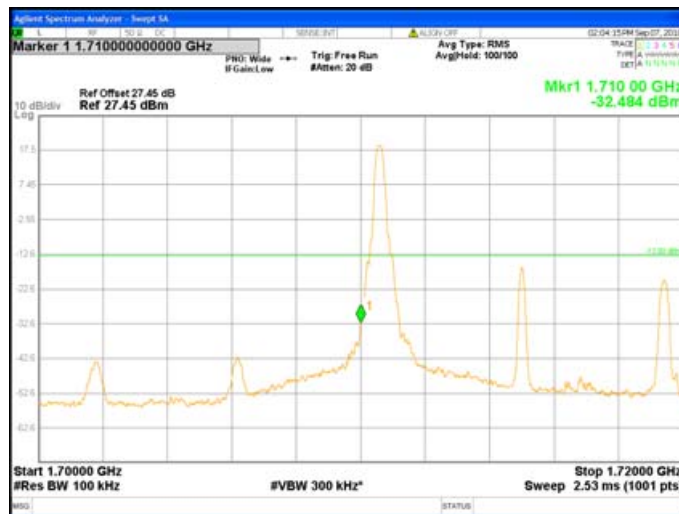
Band Edge 25-10 MHz-1 RB-0 OFFSET RB-1715-QPSK



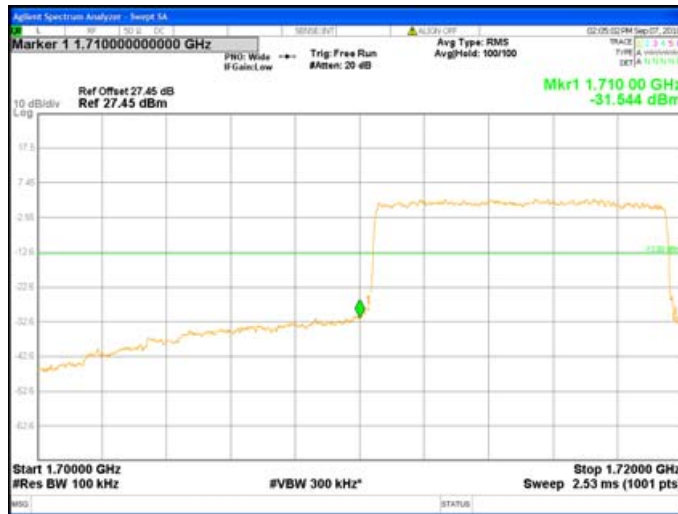
Band Edge 26-10 MHz-50 RB-0 OFFSET RB-1715-QPSK



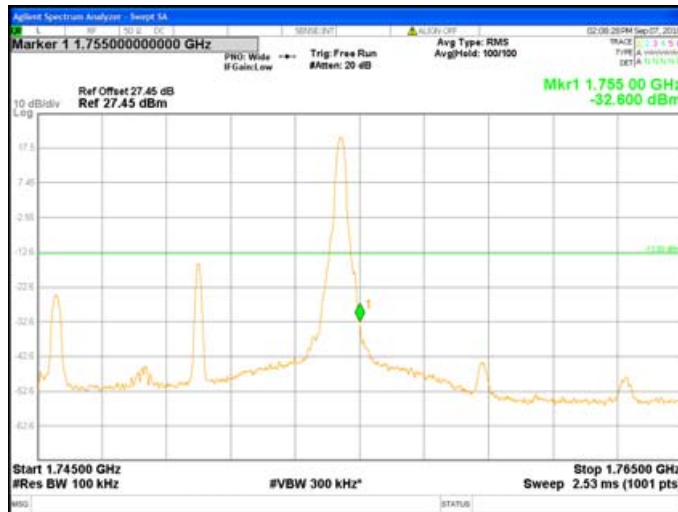
Band Edge 27-10 MHz-1 RB-0 OFFSET RB-1715-16QAM



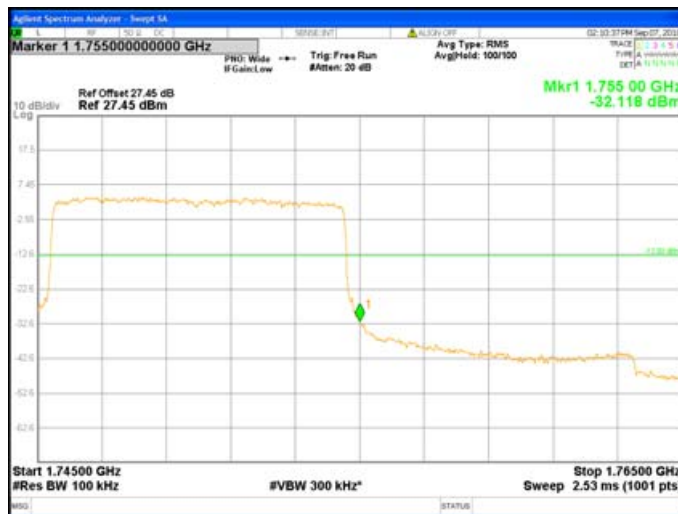
Band Edge 28-10 MHz-50 RB-0 OFFSET RB-1715-16QAM



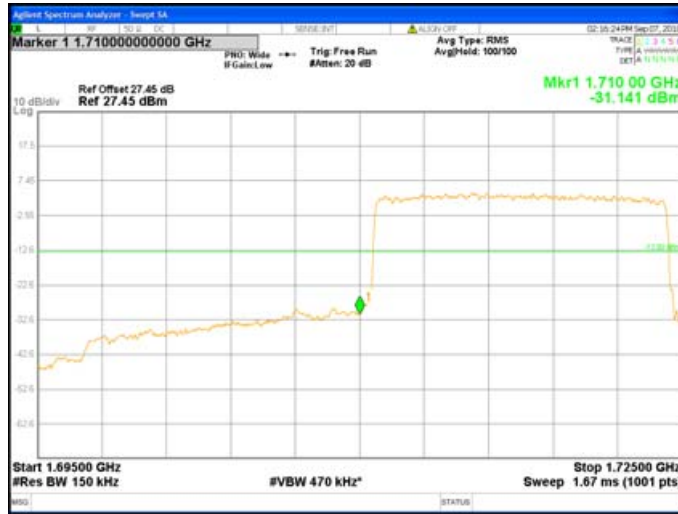
Band Edge 29-10 MHz-1 RB-49 OFFSET RB-1750-QPSK



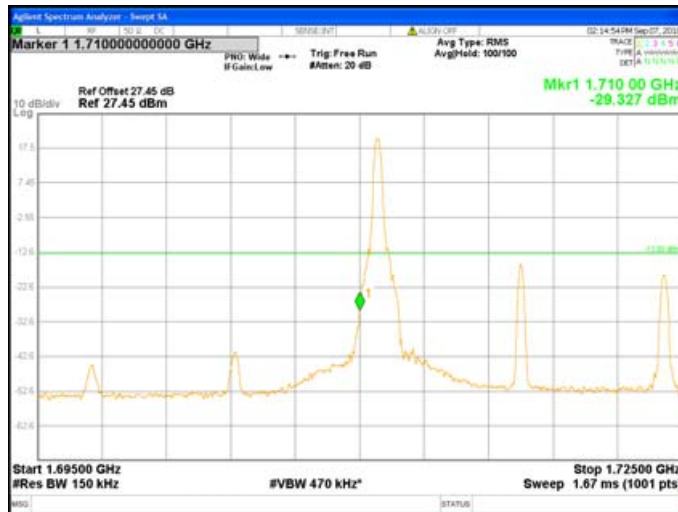
Band Edge 30-10 MHz-50 RB-0 OFFSET RB-1750-QPSK



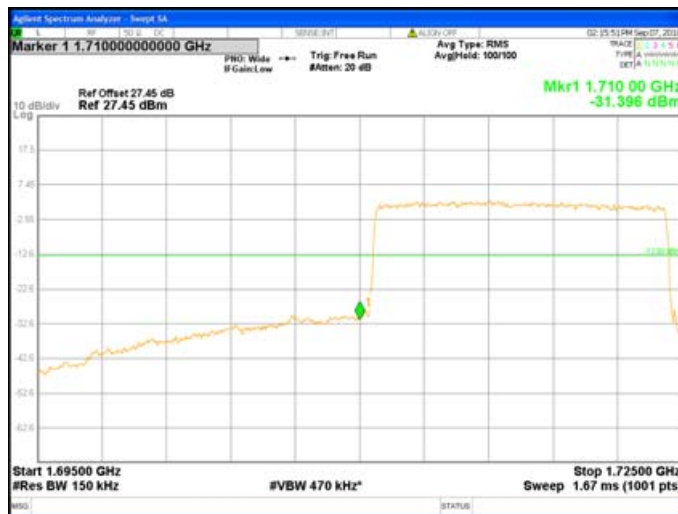
Band Edge 34-15 MHz-75 RB-0 OFFSET RB-1717.5-QPSK



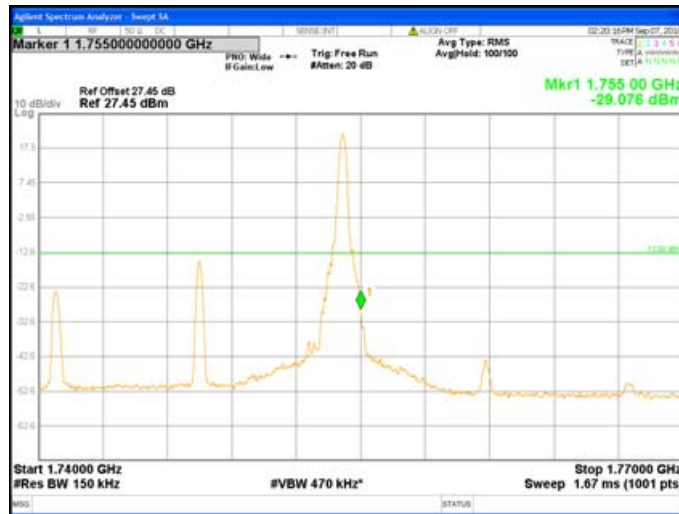
Band Edge 35-15 MHz-1 RB-0 OFFSET RB-1717.5-16QAM



Band Edge 36-15 MHz-75 RB-0 OFFSET RB-1717.5-16QAM



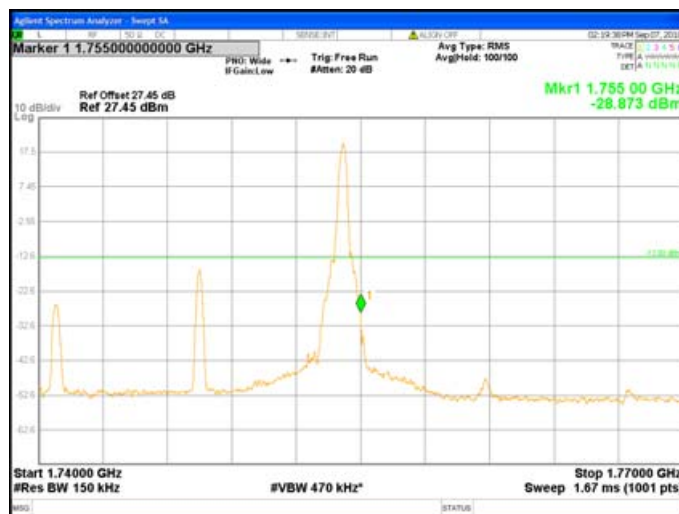
Band Edge 37-15 MHz-1 RB-74 OFFSET RB-1747.5-QPSK



Band Edge 38-15 MHz-75 RB-0 OFFSET RB-1747.5-QPSK



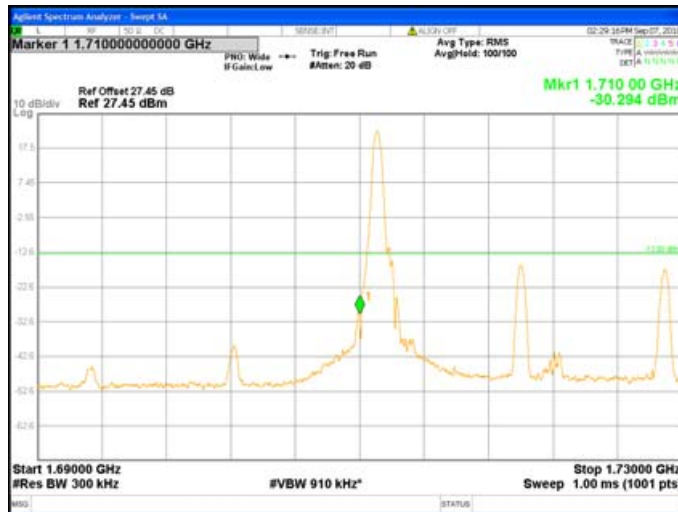
Band Edge 39-15 MHz-1 RB-74 OFFSET RB-1747.5-16QAM



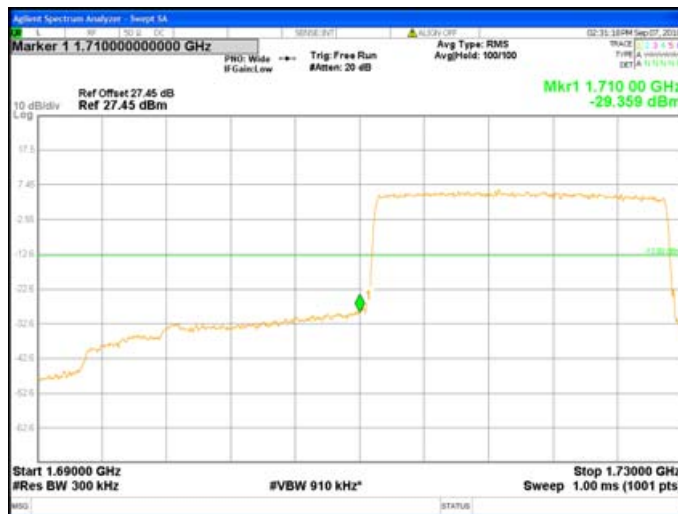
Band Edge 40-15 MHz-75 RB-0 OFFSET RB-1747.5-16QAM



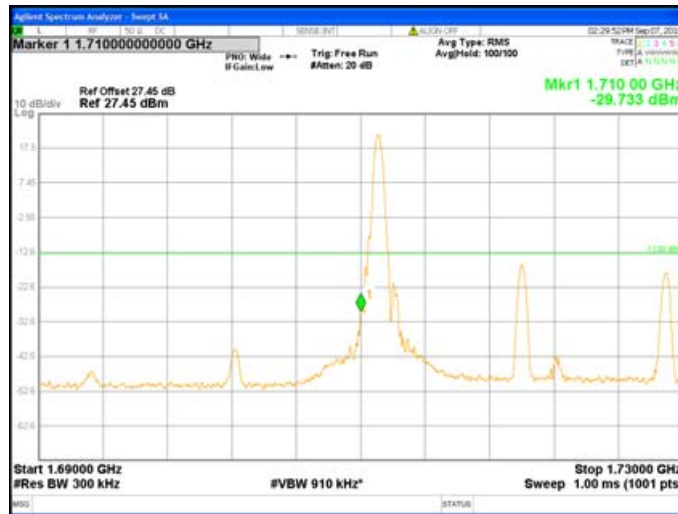
Band Edge 41-20 MHz-1 RB-0 OFFSET RB-1720-QPSK



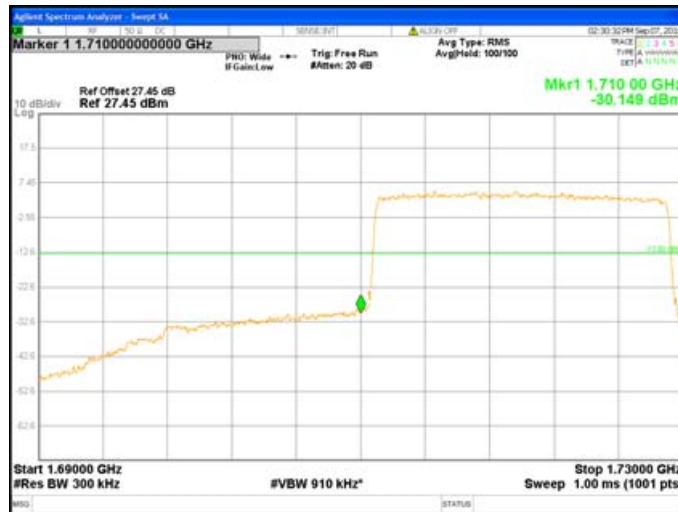
Band Edge 42-20 MHz-100 RB-0 OFFSET RB-1720-QPSK



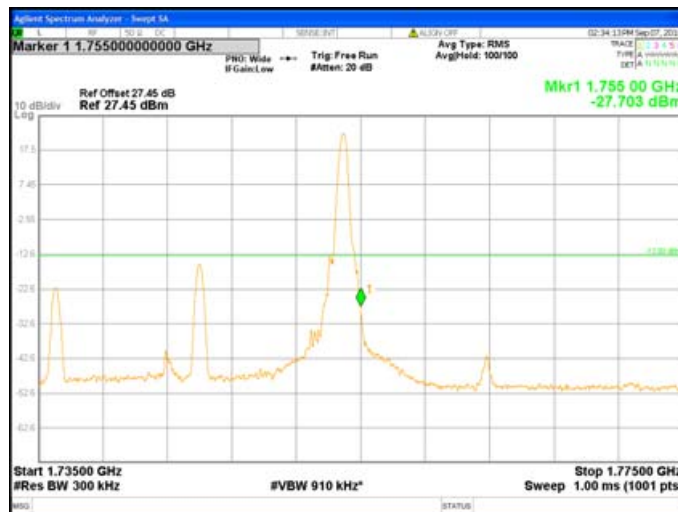
Band Edge 43-20 MHz-1 RB-0 OFFSET RB-1720-16QAM



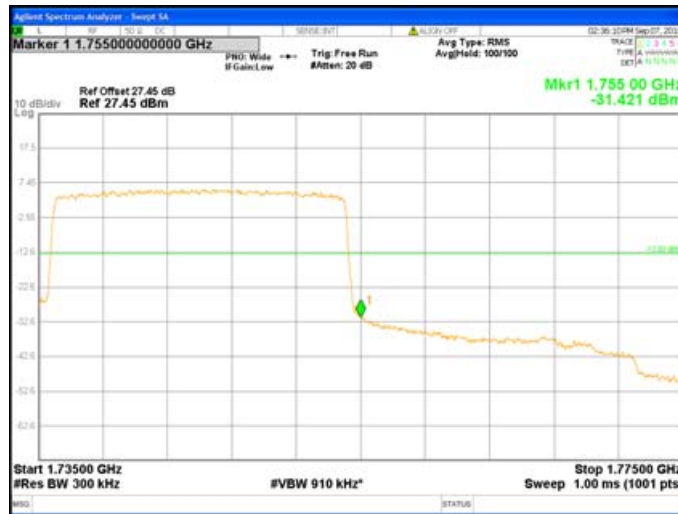
Band Edge 44-20 MHz-100 RB-0 OFFSET RB-1720-16QAM



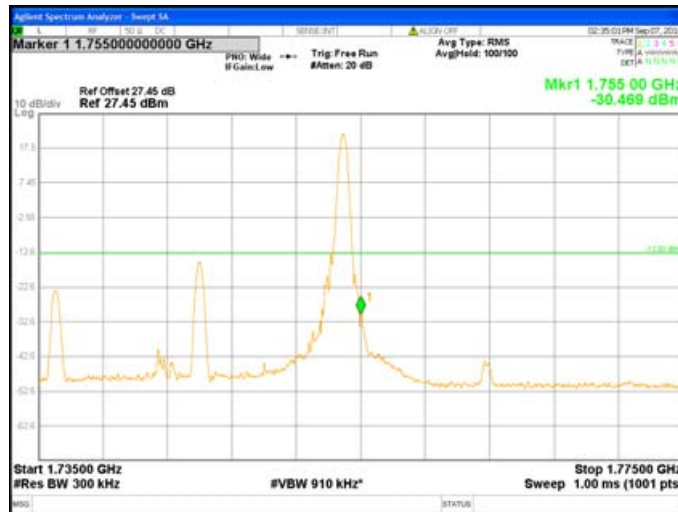
Band Edge 45-20 MHz-1 RB 99 OFFSET RB-1745-QPSK



Band Edge 46-20 MHz-100 RB 0 OFFSET RB-1745-QPSK



Band Edge 47-20 MHz-1 RB 99 OFFSET RB-1745-16QAM



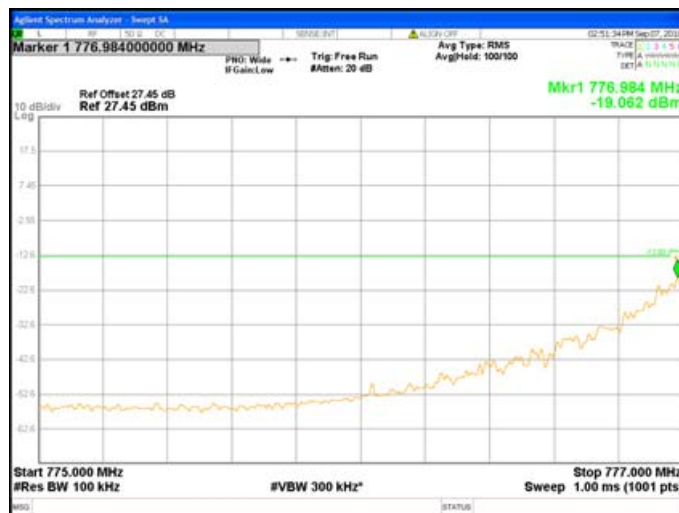
Band Edge 48-20 MHz-100 RB 0 OFFSET RB-1745-16QAM



Band Edge 49-5 MHz-1 RB 0 OFFSET RB-779.5-QPSK



Band Edge 50-5 MHz-1 RB 0 OFFSET RB-779.5-QPSK



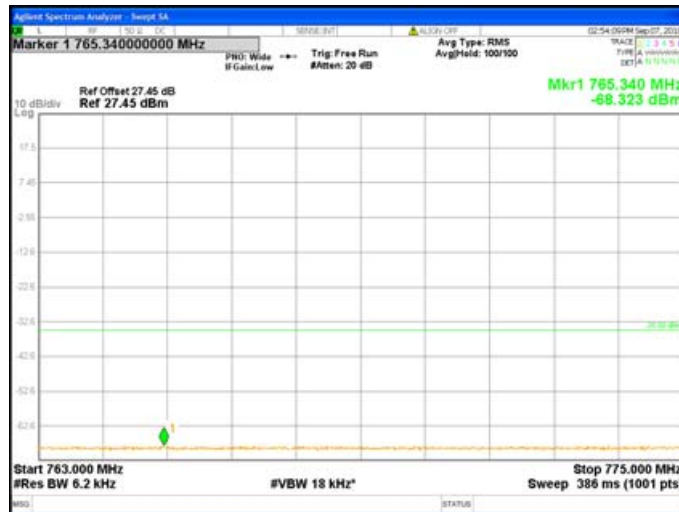
Band Edge 51-5 MHz-25 RB 0 OFFSET RB-779.5-QPSK



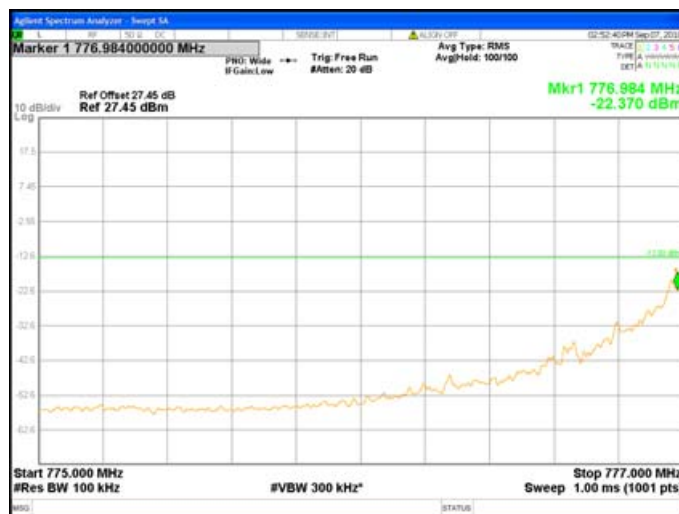
Band Edge 52-5 MHz-25 RB 0 OFFSET RB-779.5-QPSK



Band Edge 53-5 MHz-1 RB 0 OFFSET RB-779.5-16QAM



Band Edge 54-5 MHz-1 RB 0 OFFSET RB-779.5-16QAM



Band Edge 55-5 MHz-25 RB 0 OFFSET RB-779.5-16QAM



Band Edge 56-5 MHz-25 RB 0 OFFSET RB-779.5-16QAM



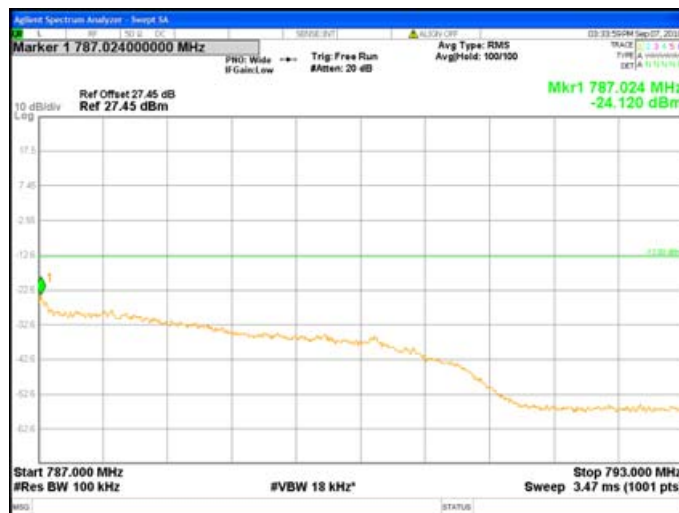
Band Edge 57-5 MHz-1 RB 24 OFFSET RB-784.5-QPSK



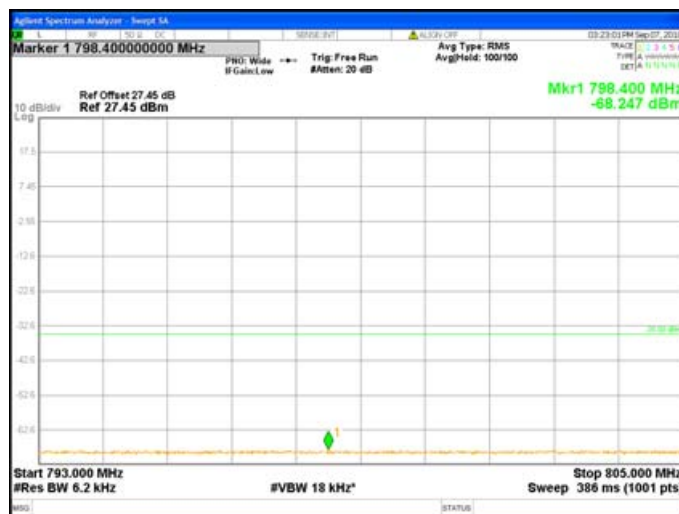
Band Edge 58-5 MHz-1 RB 24 OFFSET RB-784.5-QPSK



Band Edge 59-5 MHz-25 RB 0 OFFSET RB-784.5-QPSK



Band Edge 60-5 MHz-25 RB 0 OFFSET RB-784.5-QPSK



Band Edge 61-5 MHz-1 RB 24 OFFSET RB-784.5-16QAM



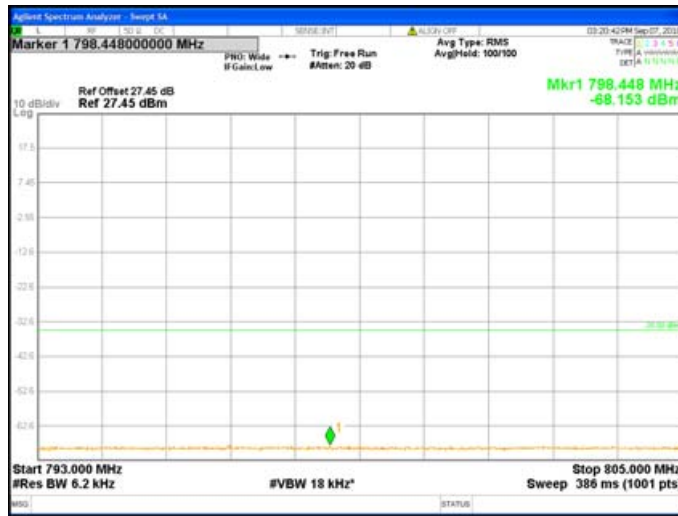
Band Edge 62-5 MHz-1 RB 24 OFFSET RB-784.5-16QAM



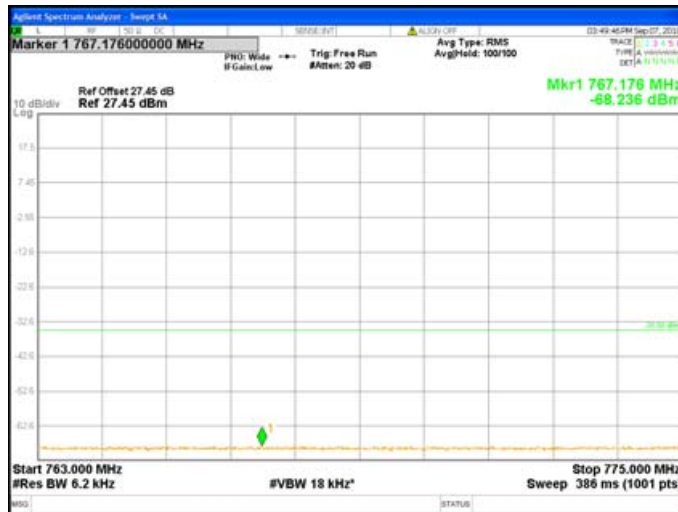
Band Edge 63-5 MHz-25 RB 0 OFFSET RB-784.5-16QAM



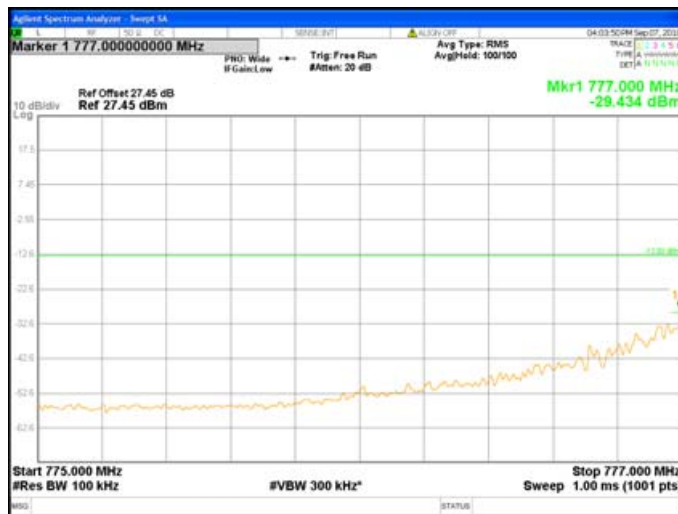
Band Edge 64-5 MHz-25 RB 0 OFFSET RB-784.5-16QAM



Band Edge 65-10 MHz-1 RB 0 OFFSET RB-782-QPSK



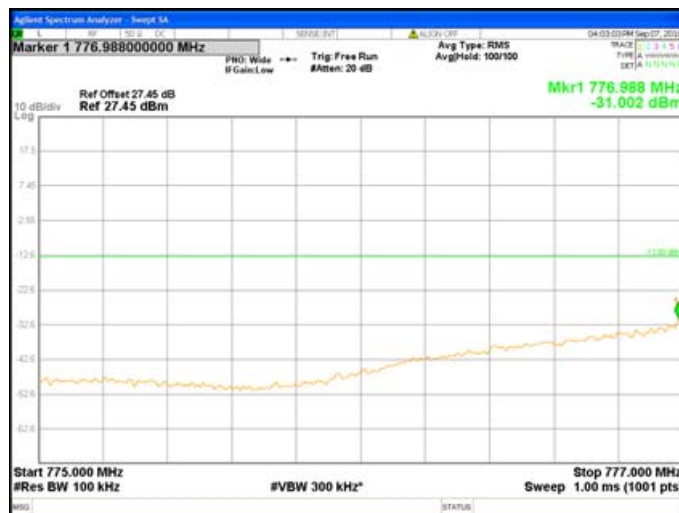
Band Edge 66-10 MHz-1 RB 0 OFFSET RB-782-QPSK



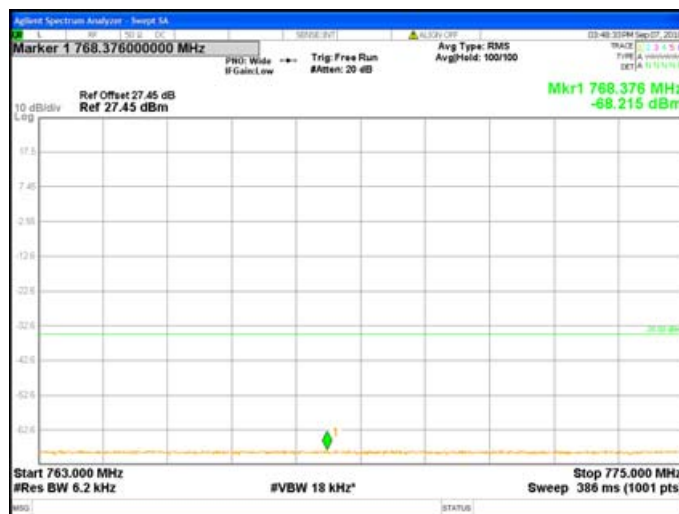
Band Edge 67-10 MHz-50 RB 0 OFFSET RB-782-QPSK



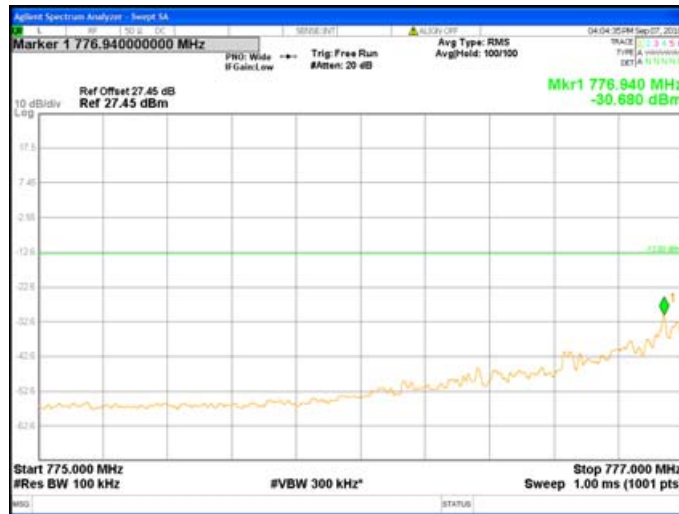
Band Edge 68-10 MHz-50 RB 0 OFFSET RB-782-QPSK



Band Edge 69-10 MHz-1 RB 0 OFFSET RB-782-16QAM



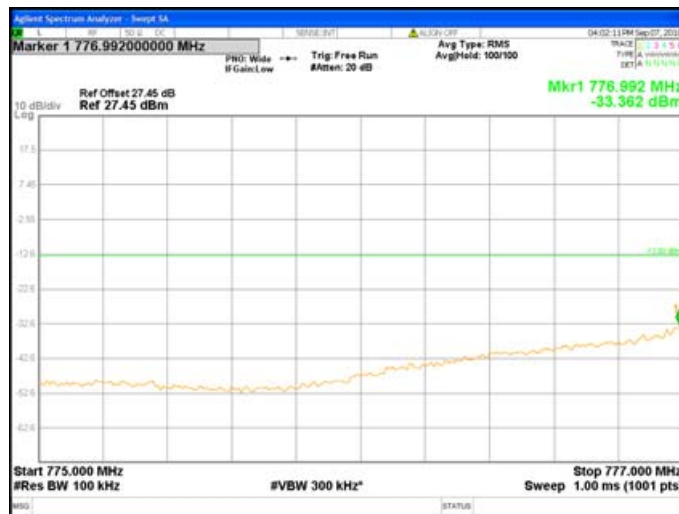
Band Edge 70-10 MHz-1 RB 0 OFFSET RB-782-16QAM



Band Edge 71-10 MHz-50 RB 0 OFFSET RB-782-16QAM



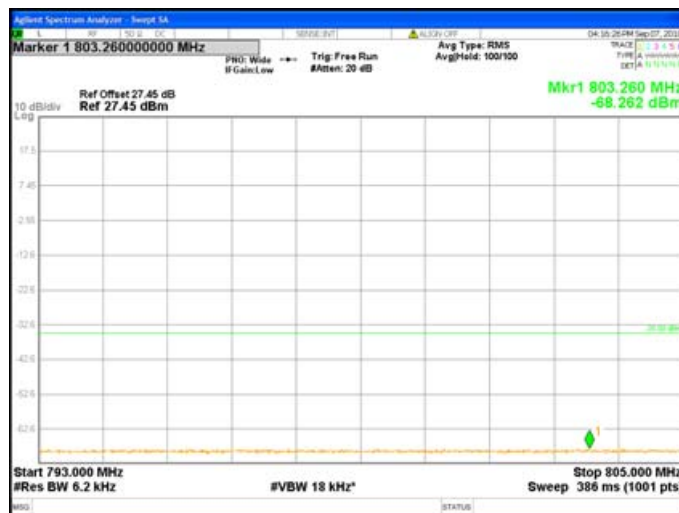
Band Edge 72-10 MHz-50 RB 0 OFFSET RB-782-16QAM



Band Edge 73-10 MHz-1 RB 49 OFFSET RB-782-QPSK



Band Edge 74-10 MHz-1 RB 49 OFFSET RB-782-QPSK



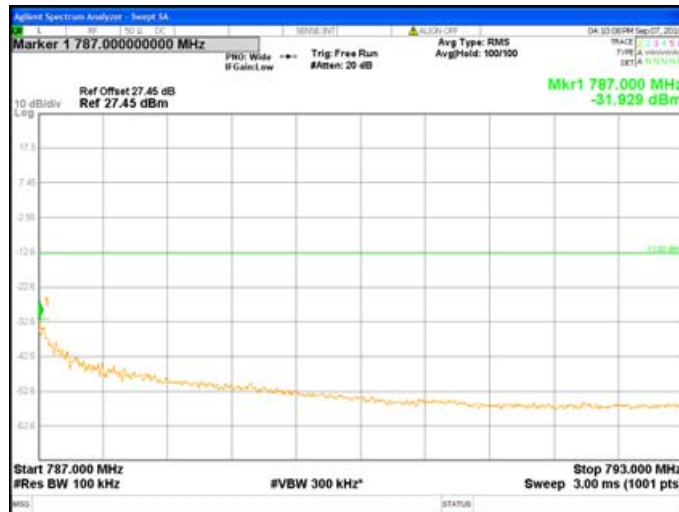
Band Edge 75-10 MHz-50 RB 0 OFFSET RB-782-QPSK



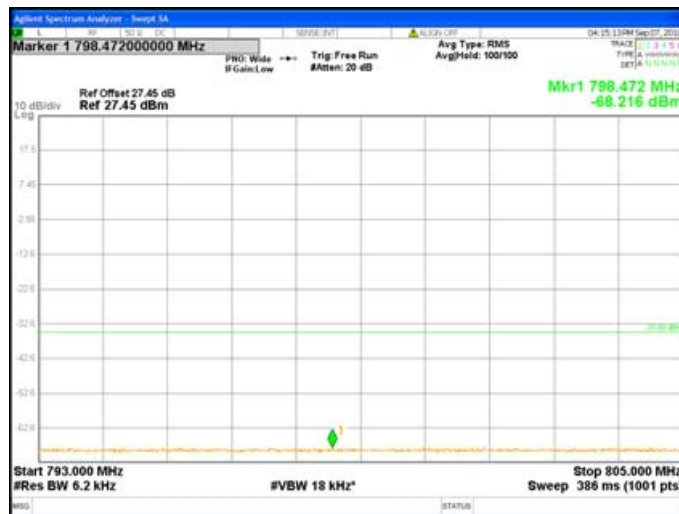
Band Edge 76-10 MHz-50 RB 0 OFFSET RB-782-QPSK



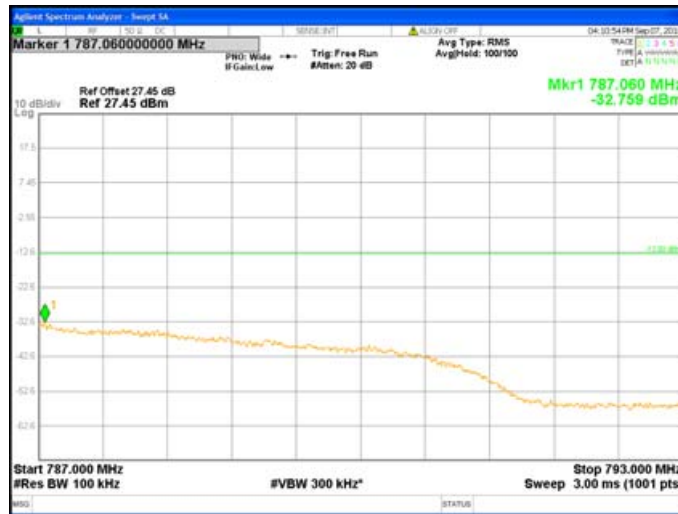
Band Edge 77-10 MHz-1 RB 49 OFFSET RB-782-16QAM



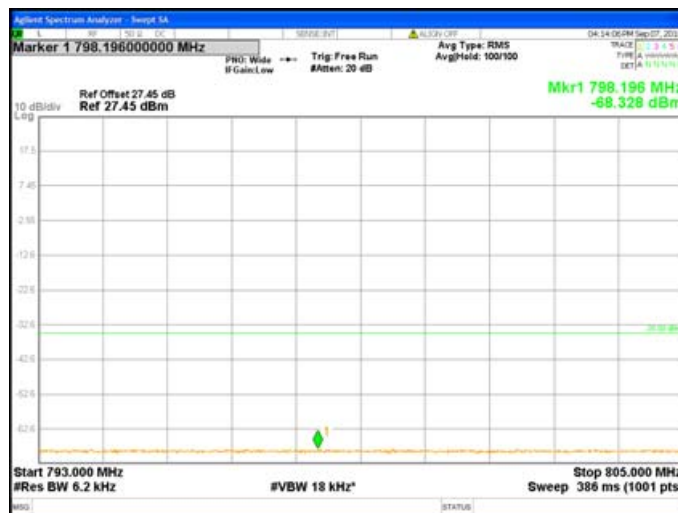
Band Edge 78-10 MHz-1 RB 49 OFFSET RB-782-16QAM



Band Edge 79-10 MHz-50 RB 0 OFFSET RB-782-16QAM



Band Edge 80-10 MHz-50 RB 0 OFFSET RB-782-16QAM



7. Conducted Spurious Emissions

7.1 Test conditions

Temperature:	20	°C
Relative Humidity:	55	%
Atmospheric Pressure	1008	hPa

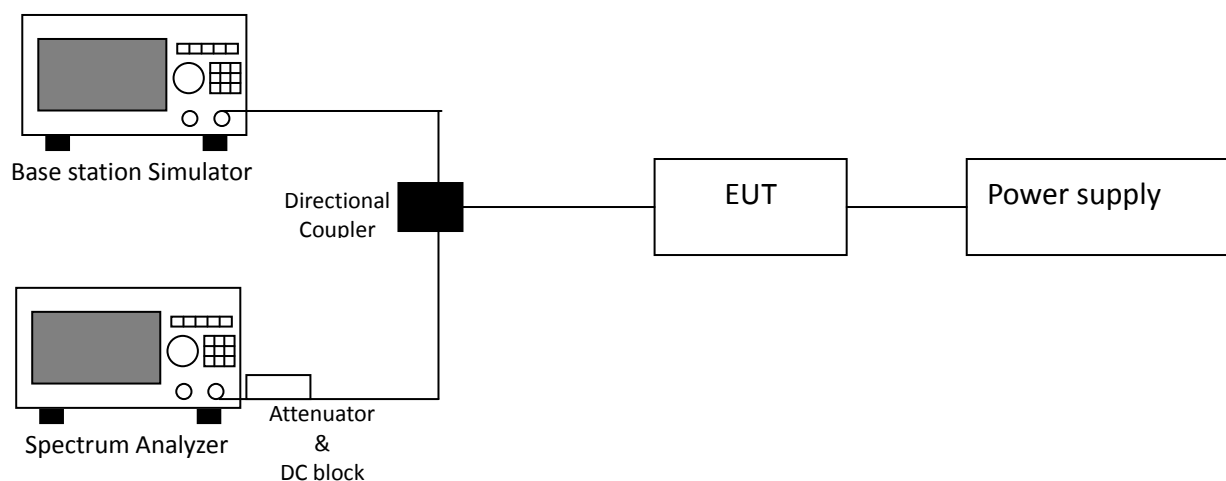
7.2 Limit for conducted spurious emissions

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. The limit of emission equal to -13dBm

7.3 Test procedure

1. The EUT connected to the Base station simulator. All measurements were done at low, middle and high operational frequency range.
2. Measuring frequency range is from 30 MHz to 8GHz for LTE Band 13 and from 30MHz to 18GHz for LTE Band 4. 20dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz are used for conducted emission measurement.

7.4 Test diagram



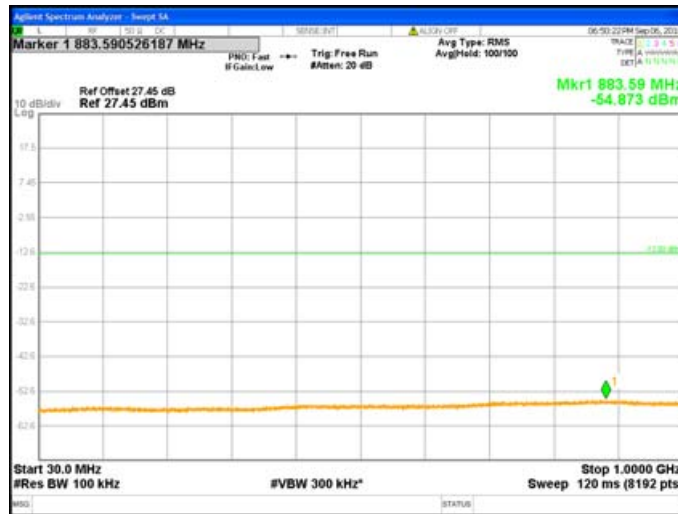
7.5 Test results

Operating Band	Bandwidth (MHz)	Modulation method	RB (FDD)	Offset RB	Frequency Range	Frequency (MHz)	Test Plot		Limit
							30MHz ≤ f < 1GHz	1GHz ≤ f < 20GHz	
LTE Band 4	1.4	QPSK	1	0	Low Range	1710.7	1	2	(30MHz ≤ f < 1GHz) < -13 (1GHz ≤ f < 20GHz) < -13
				0	Mid Range	1732.5	3	4	
				0	High Range	1754.3	5	6	
	3	QPSK	1	0	Low Range	1711.5	7	8	
				0	Mid Range	1732.5	9	10	
				0	High Range	1753.5	11	12	
	5	QPSK	1	0	Low Range	1712.5	13	14	
				0	Mid Range	1732.5	15	16	
				0	High Range	1752.5	17	18	
	10	QPSK	1	0	Low Range	1715.0	19	20	
				0	Mid Range	1732.5	21	22	
				0	High Range	1750.0	23	24	
	15	QPSK	1	0	Low Range	1717.5	25	26	
				0	Mid Range	1732.5	27	28	
				0	High Range	1747.5	29	30	
	20	QPSK	1	0	Low Range	1720.0	31	32	
				0	Mid Range	1732.5	33	34	
				0	High Range	1745.0	35	36	
	1.4	16-QAM	1	0	Low Range	1710.7	37	38	
				0	Mid Range	1732.5	39	40	
				0	High Range	1754.3	41	42	
	3	16-QAM	1	0	Low Range	1711.5	43	44	
				0	Mid Range	1732.5	45	46	
				0	High Range	1753.5	47	48	
5	16-QAM	1	0	Low Range	1712.5	49	50		
			0	Mid Range	1732.5	51	52		
			0	High Range	1752.5	53	54		
10	16-QAM	1	0	Low Range	1715.0	55	56		
			0	Mid Range	1732.5	57	58		
			0	High Range	1750.0	59	60		
15	16-QAM	1	0	Low Range	1717.5	61	62		
			0	Mid Range	1732.5	63	64		
			0	High Range	1747.5	65	66		
20	16-QAM	1	0	Low Range	1720.0	67	68		
			0	Mid Range	1732.5	69	70		
			0	High Range	1745.0	71	72		

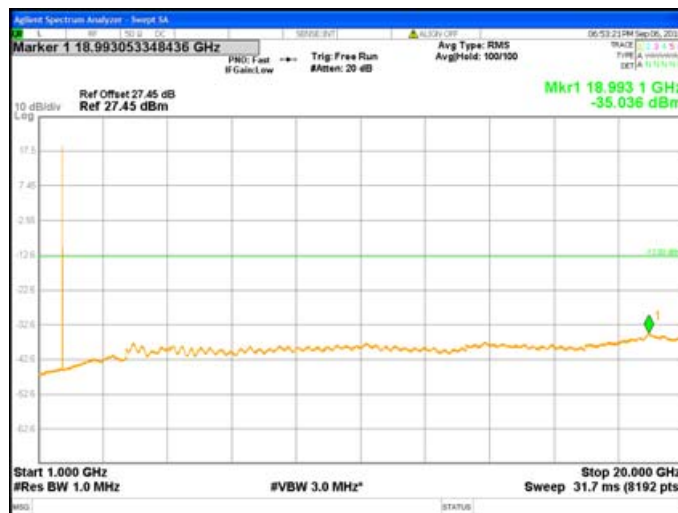
Operating Band	Bandwidth (MHz)	Modulation method	RB (FDD)	Offset RB	Frequency Range	Frequency (MHz)	Test Plot		Limit
							$30\text{MHz} \leq f < 1\text{GHz}$	$1\text{GHz} \leq f < 20\text{GHz}$	
LTE Band 13	5	QPSK	1	0	Low Range	779.5	73	74	763-775MHz and 793-805MHz < -35 for Band13
				0	Mid Range	782.0	75	76	
				0	High Range	784.5	77	78	
	5	16-QAM	1	0	Low Range	779.5	79	80	
				0	Mid Range	782.0	81	82	
				0	High Range	784.5	83	84	
	10	QPSK	1	0	Low Range	782.0	85	86	
				0	Mid Range				
				0	High Range				
	10	16-QAM	1	0	Low Range	782.0	87	88	
				0	Mid Range				
				0	High Range				

NOTE : 100 kHz if the authorized frequency band/block is at or below 1 GHz and 1 MHz if the authorized frequency band/block is above 1 GHz

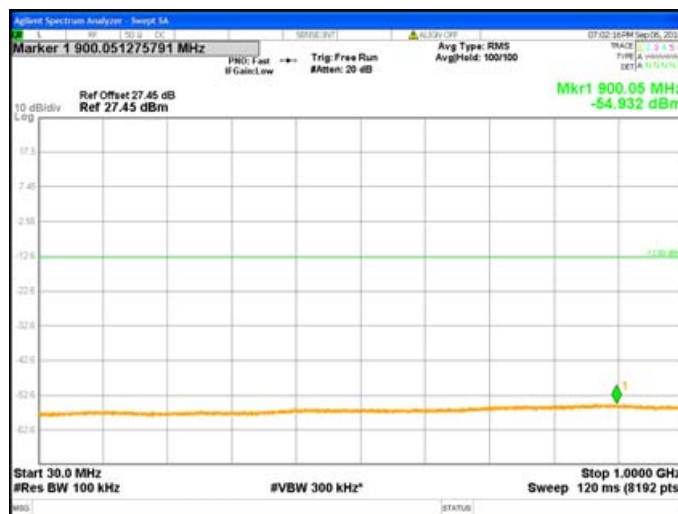
Conducted Spurious 01-1.4 MHz-1710.7-QPSK



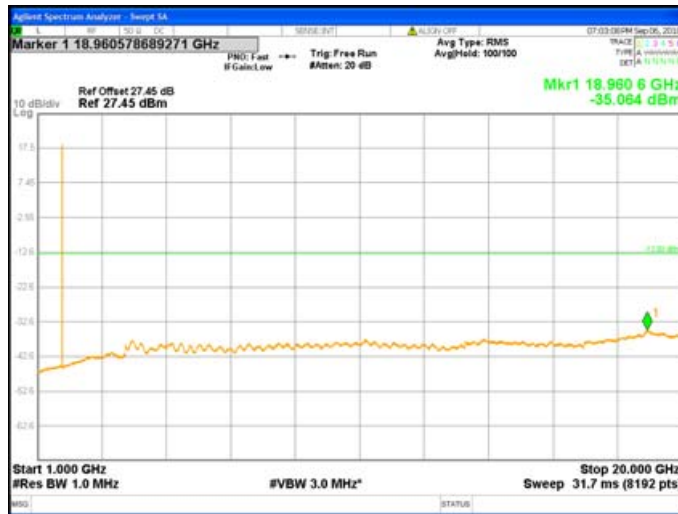
Conducted Spurious 02-1.4 MHz-1710.7-QPSK



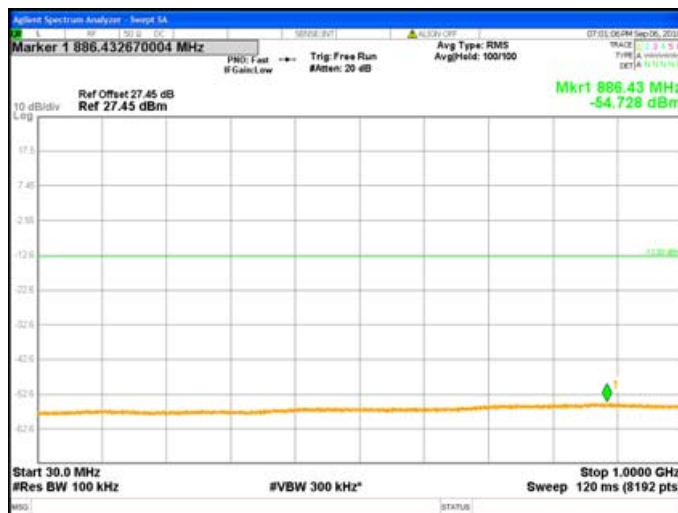
Conducted Spurious 03-1.4 MHz-1732.5-QPSK



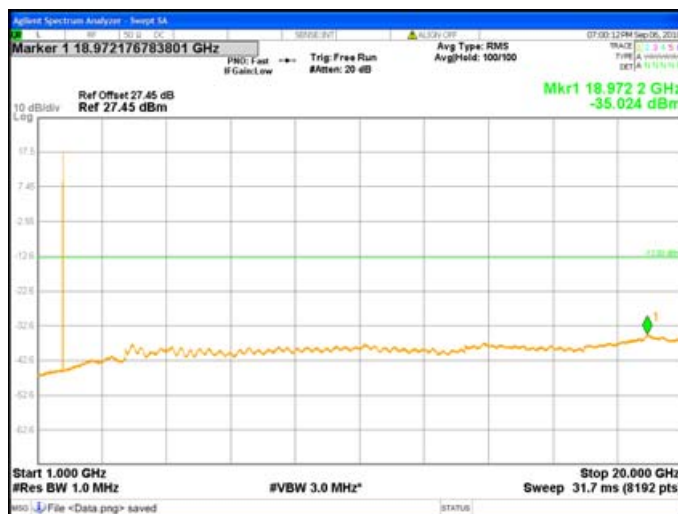
Conducted Spurious 04-1.4 MHz-1732.5-QPSK



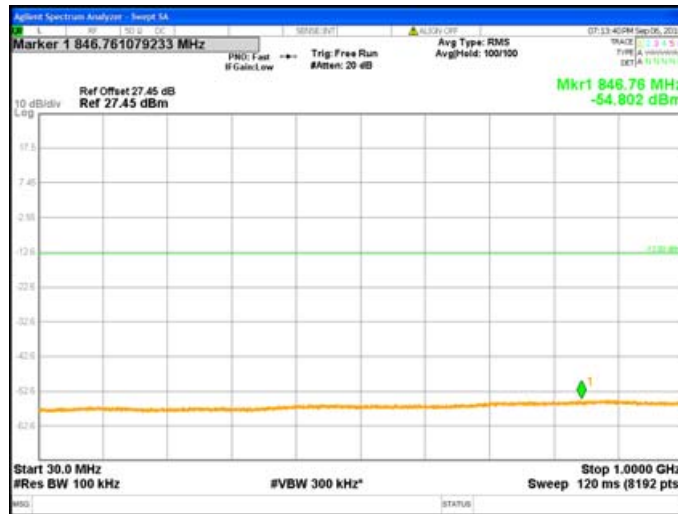
Conducted Spurious 05-1.4 MHz-1754.3-QPSK



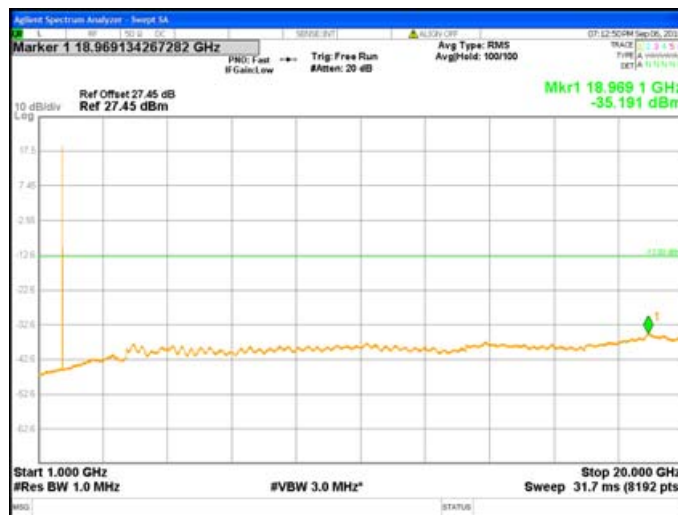
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Conducted Spurious 07-3 MHz-1711.5-QPSK



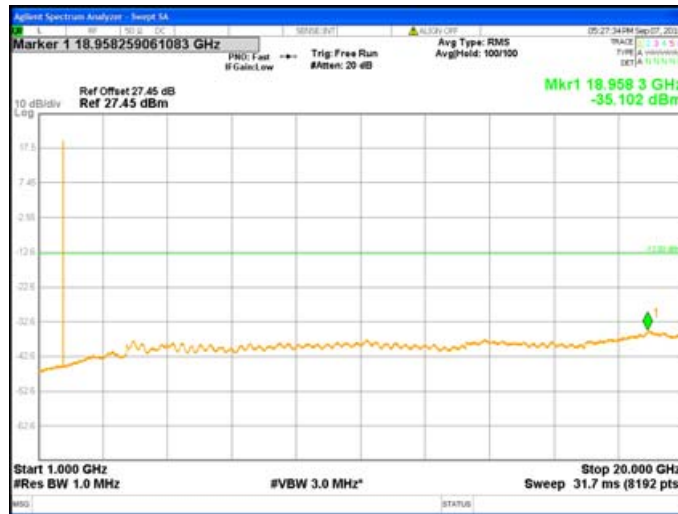
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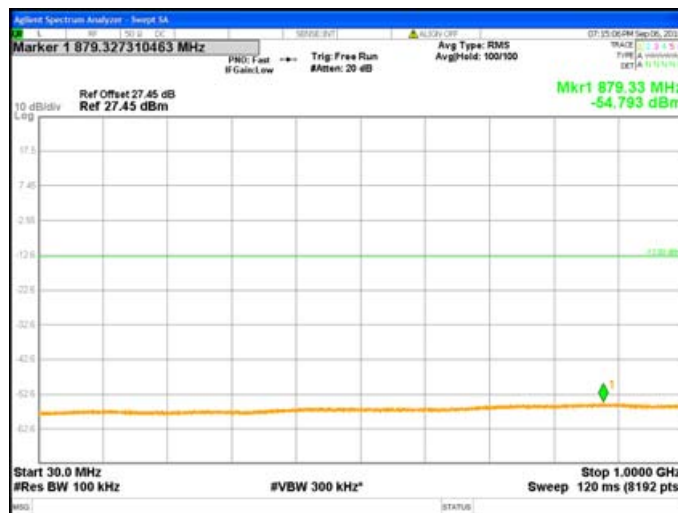
Conducted Spurious 09-3 MHz-1732.5-QPSK



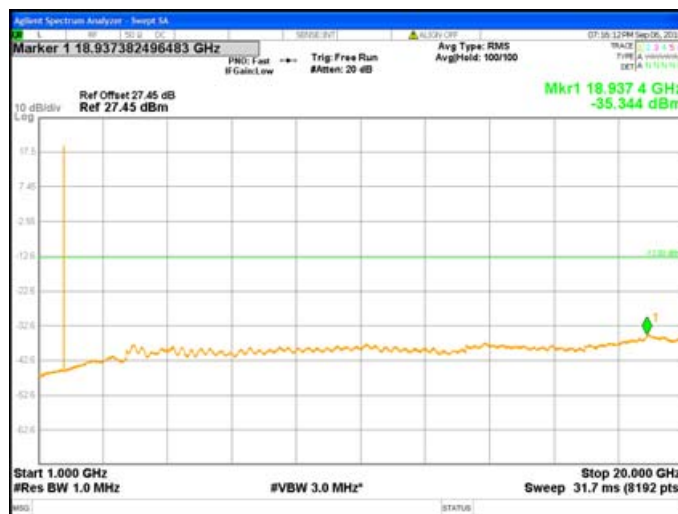
Conducted Spurious 10-3 MHz-1732.5-QPSK



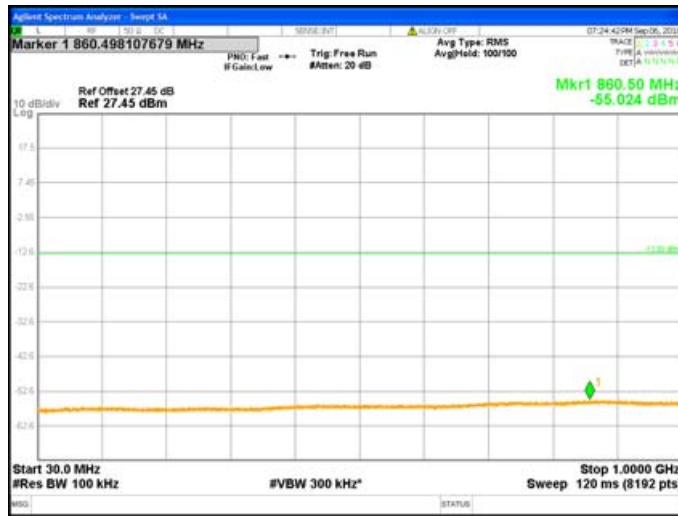
Conducted Spurious 11-3 MHz-1753.5-QPSK



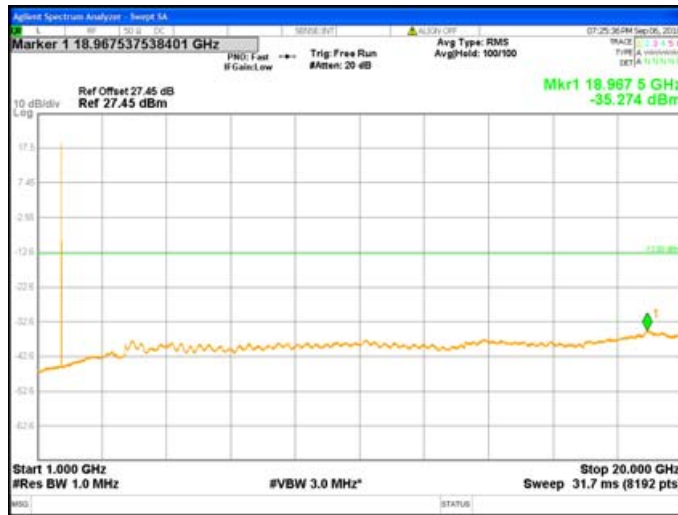
Conducted Spurious 12-3 MHz-1753.5-QPSK



Conducted Spurious 13-5 MHz-1712.5-QPSK



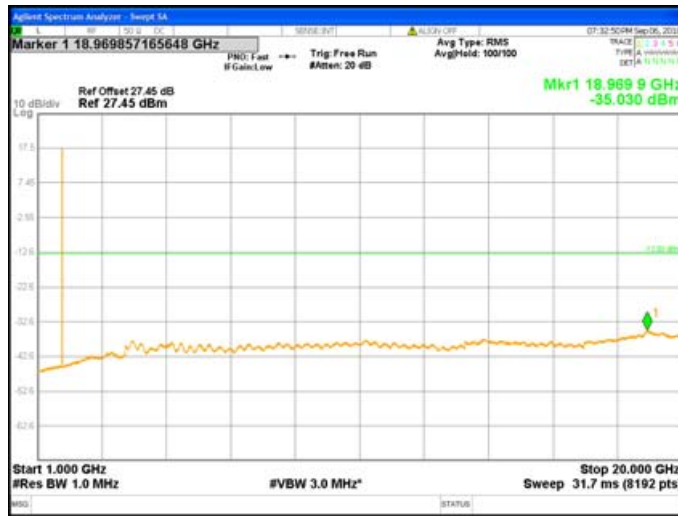
Conducted Spurious 14-5 MHz-1712.5-QPSK



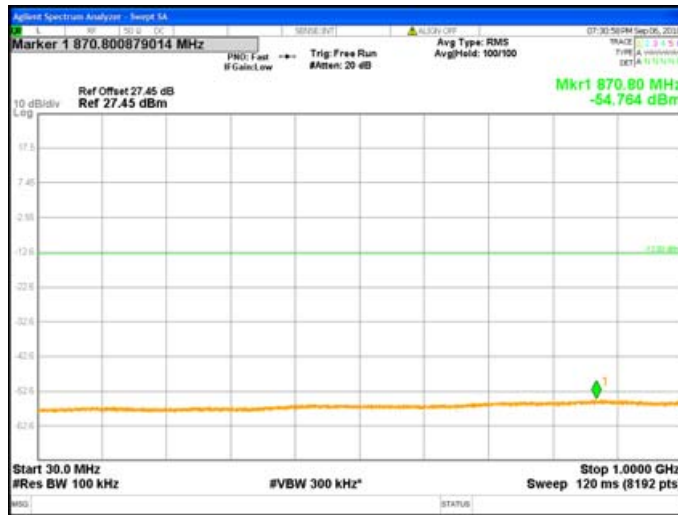
Conducted Spurious 15-5 MHz-1732.5-QPSK



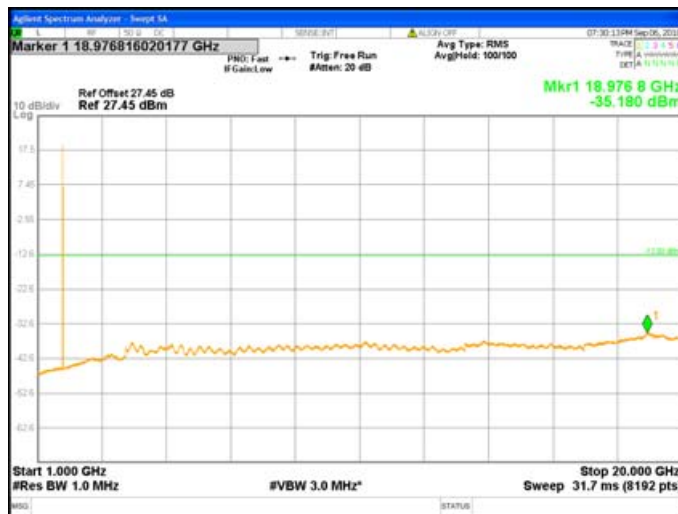
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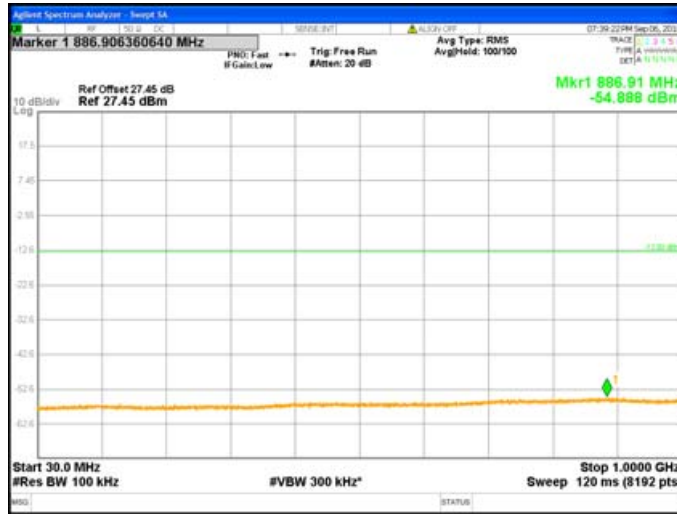
Conducted Spurious 17-5 MHz-1752.5-QPSK



Conducted Spurious 18-5 MHz-1752.5-QPSK



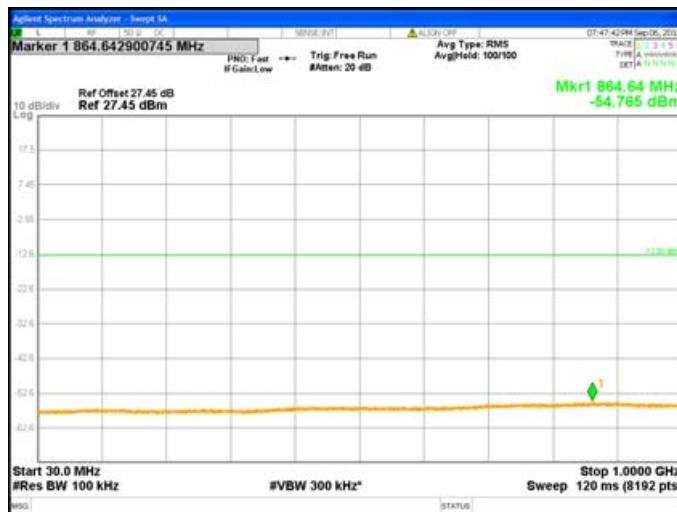
Conducted Spurious 19-10 MHz-1715-QPSK



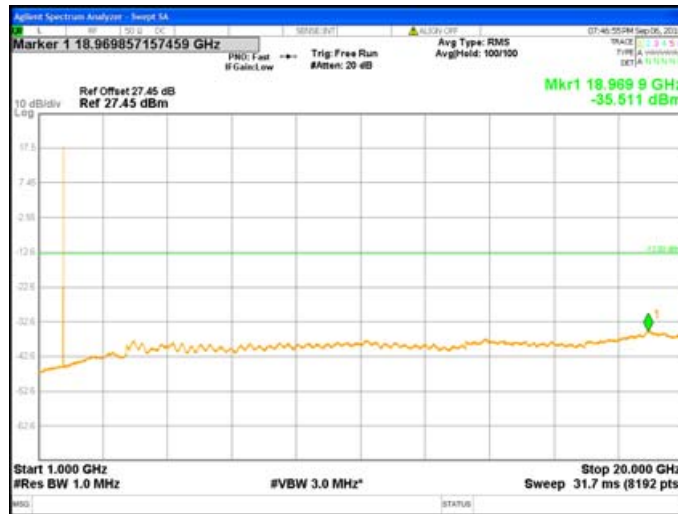
Conducted Spurious 20-10 MHz-1715-QPSK



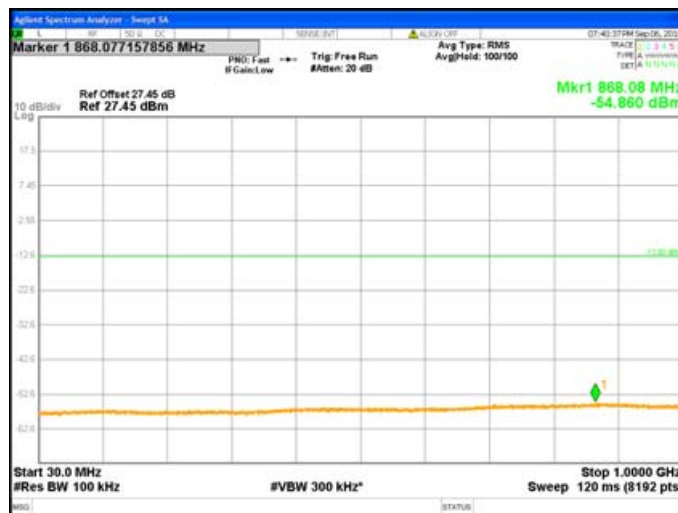
Conducted Spurious 21-10 MHz-1732.5-QPSK



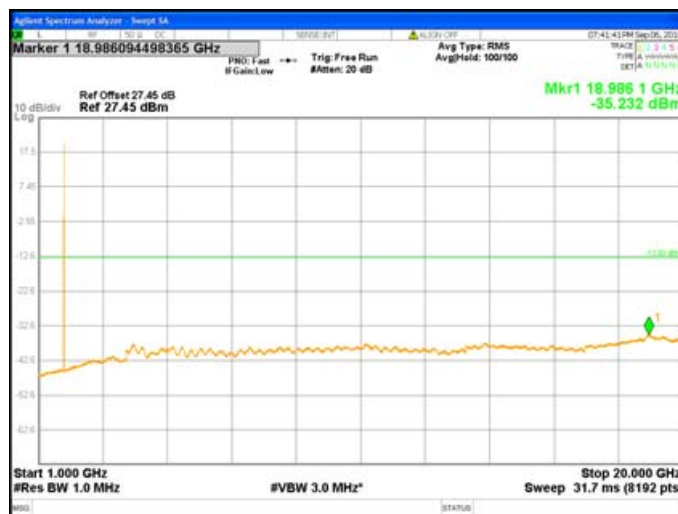
Conducted Spurious 22-10 MHz-1732.5-QPSK



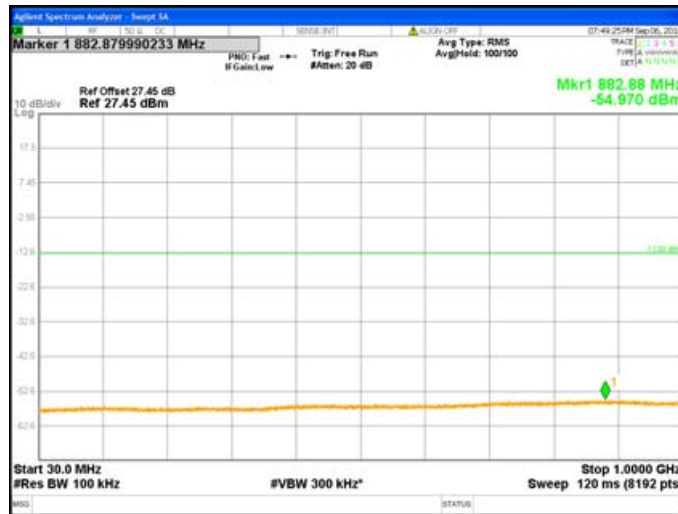
Conducted Spurious 23-10 MHz-1750-QPSK



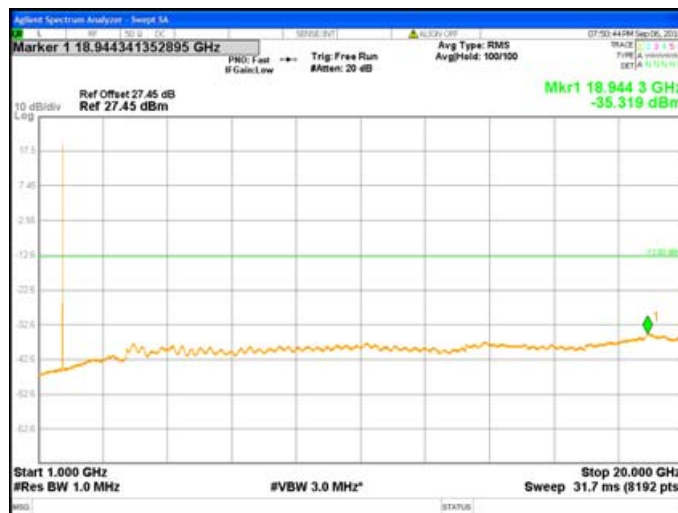
Conducted Spurious 24-10 MHz-1750-QPSK



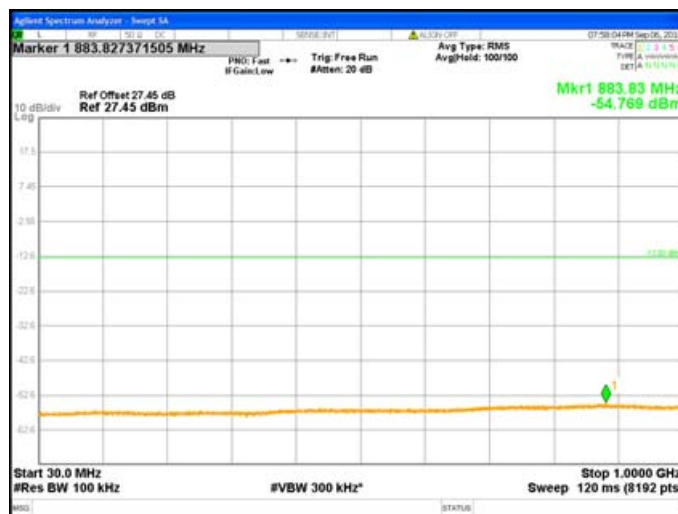
Conducted Spurious 25-15 MHz-1717.5-QPSK



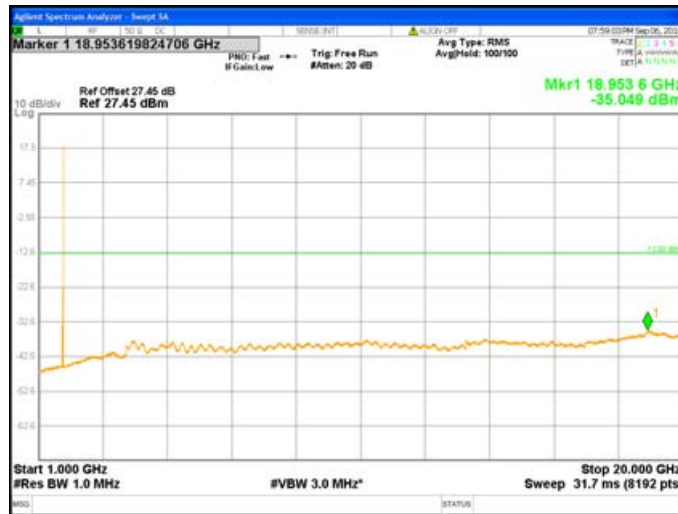
Conducted Spurious 26-15 MHz-1717.5-QPSK



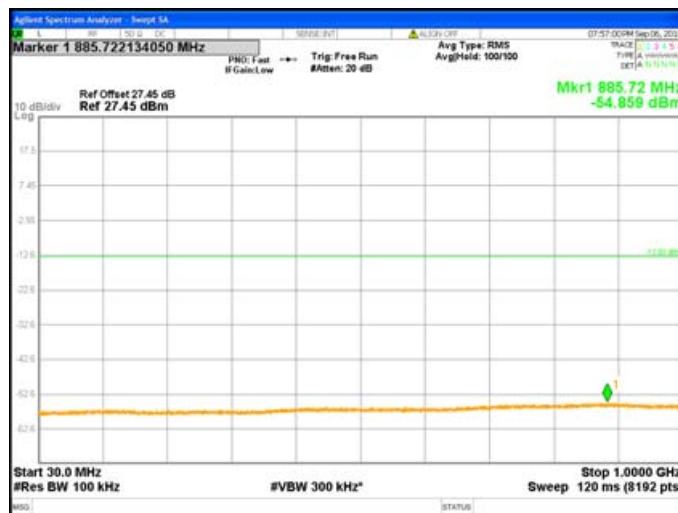
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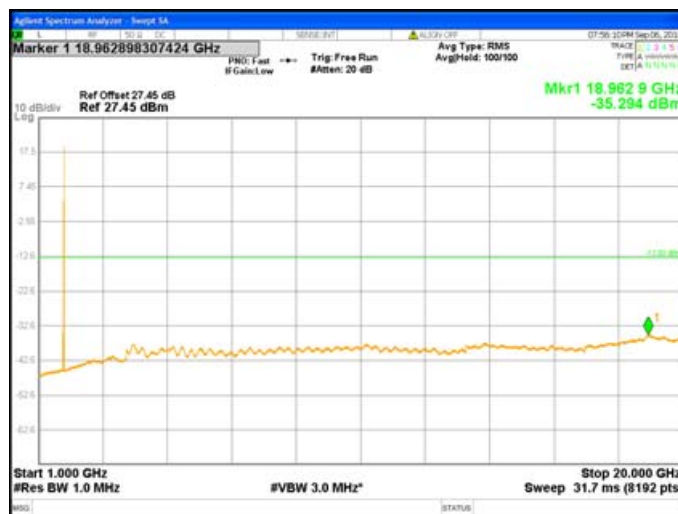
Conducted Spurious 28-15 MHz-1732.5-QPSK



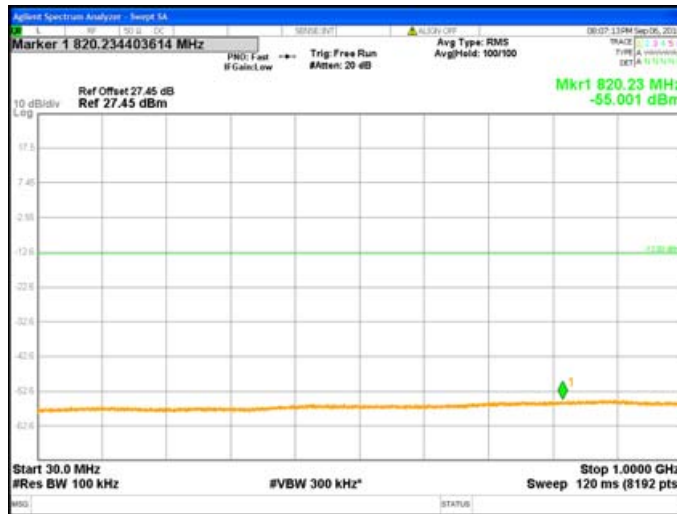
Conducted Spurious 29-15 MHz-1747.5-QPSK



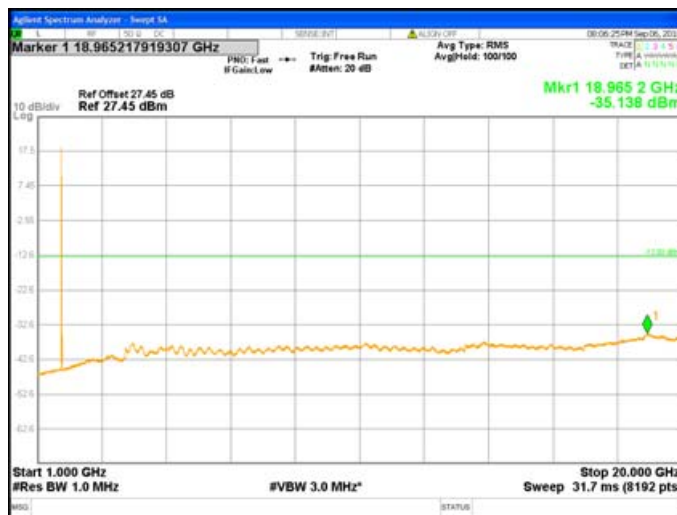
Conducted Spurious 30-15 MHz-1747.5-QPSK



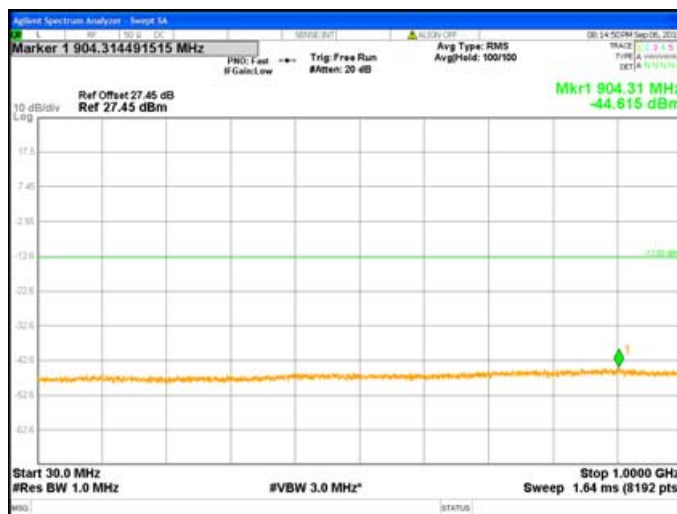
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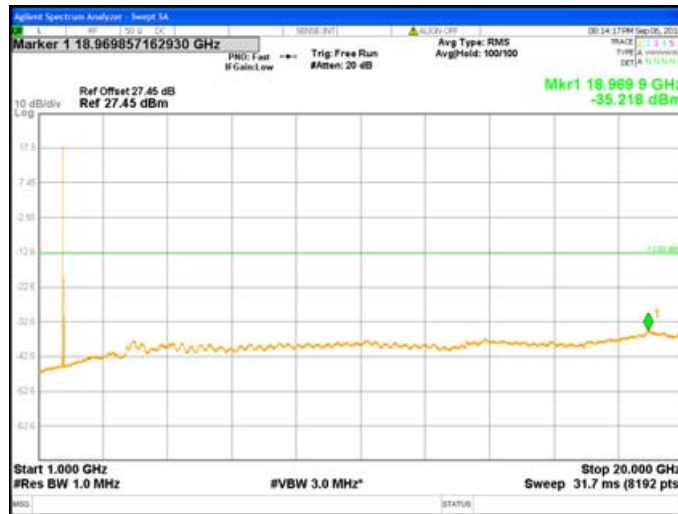
Conducted Spurious 32-20 MHz-1720-QPSK



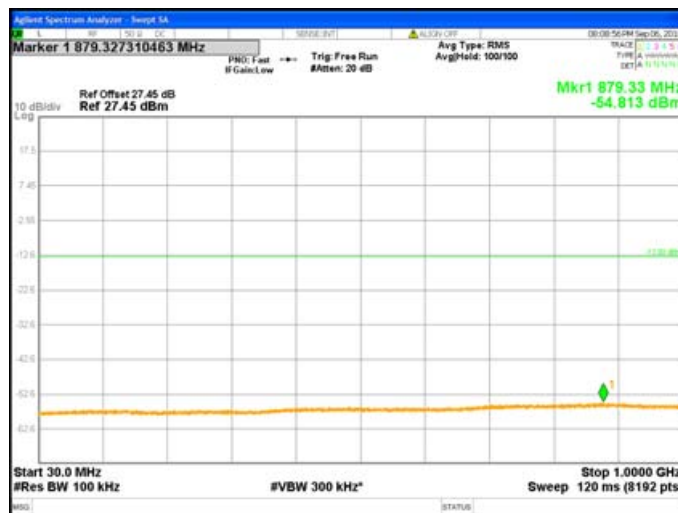
Conducted Spurious 33-20 MHz-1732.5-QPSK



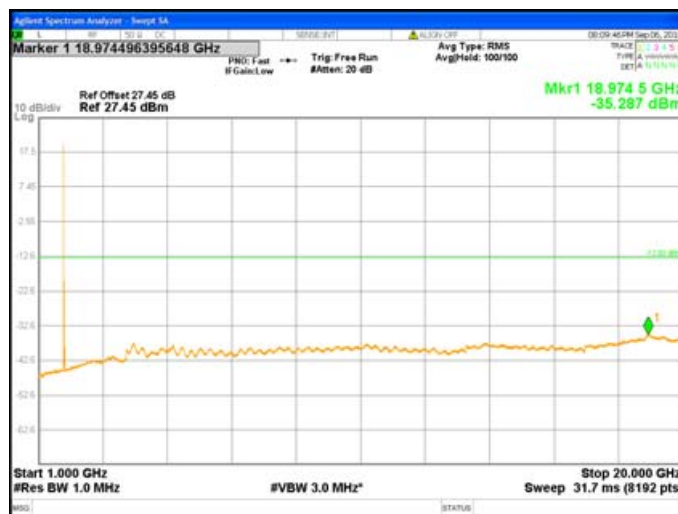
Conducted Spurious 34-20 MHz-1732.5-QPSK



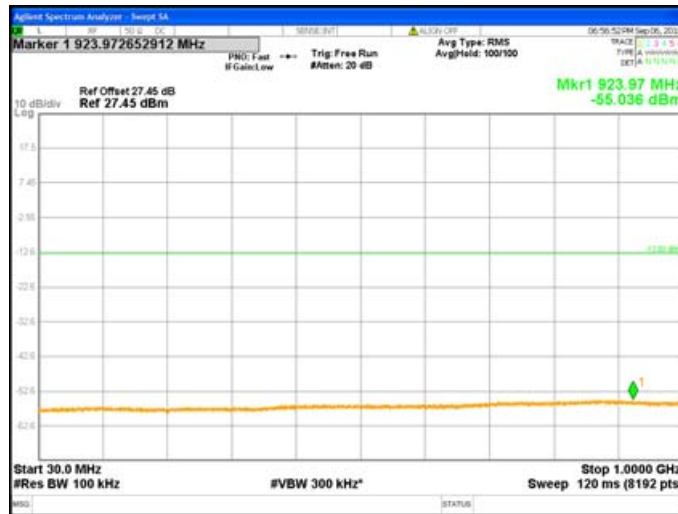
Conducted Spurious 35-20 MHz-1745-QPSK



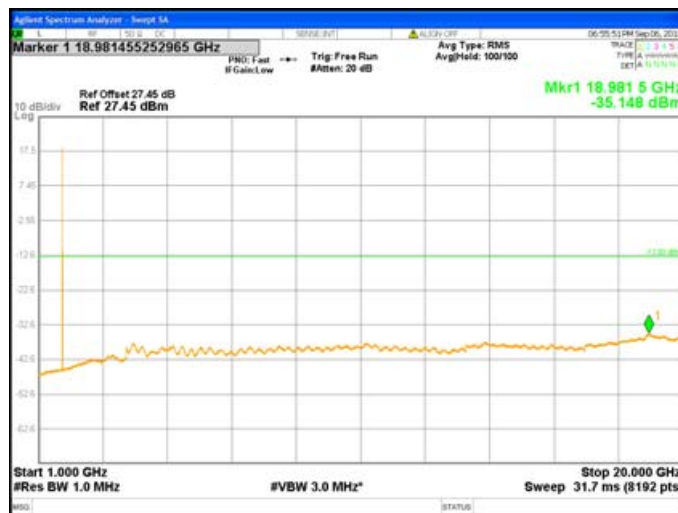
Conducted Spurious 36-20 MHz-1745-QPSK



Conducted Spurious 37-1.4 MHz-1710.7-16QAM



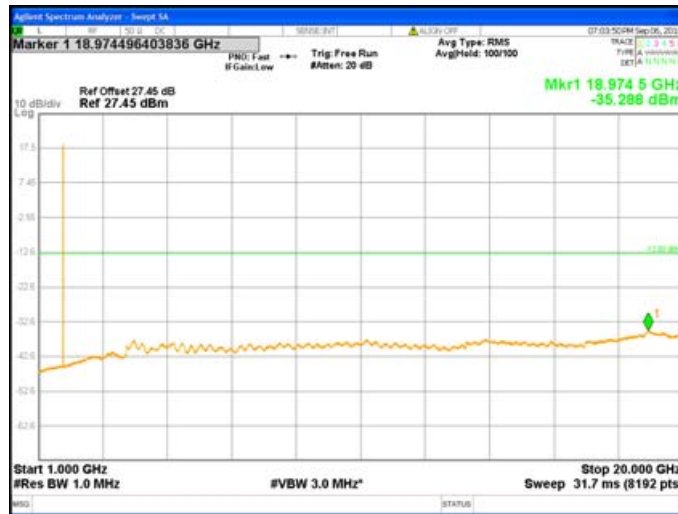
Conducted Spurious 38-1.4 MHz-1710.7-16QAM



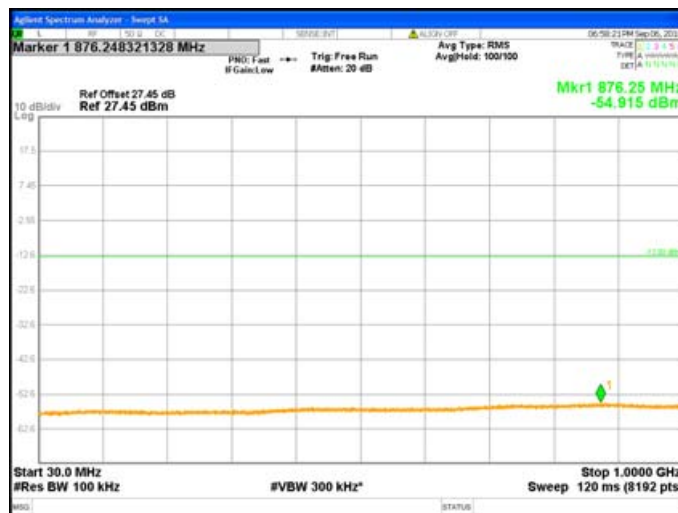
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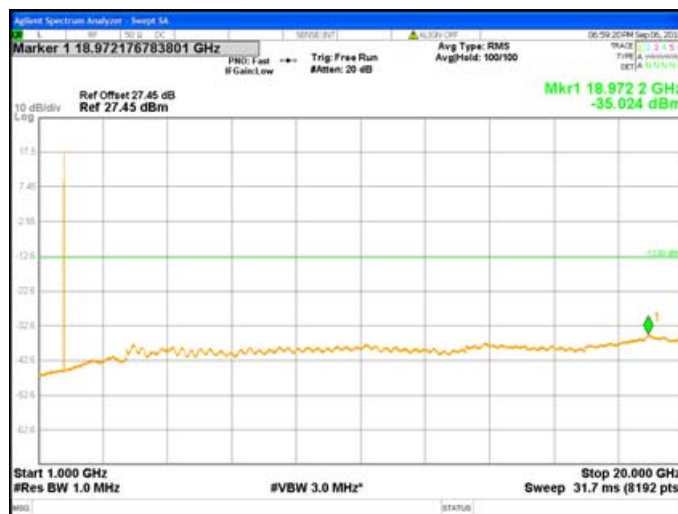
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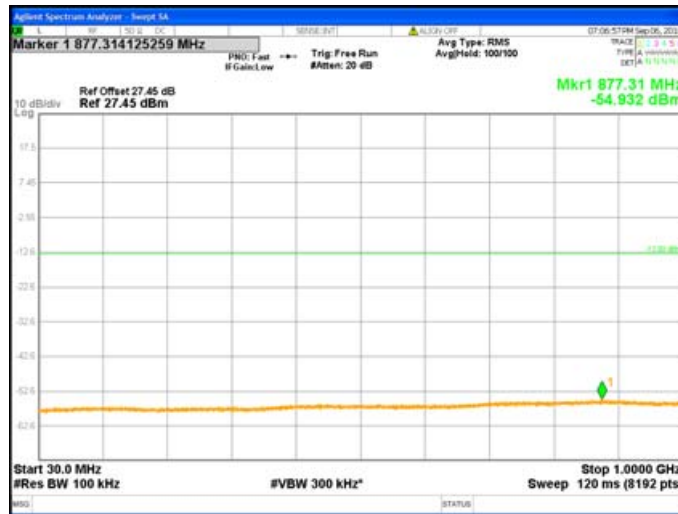
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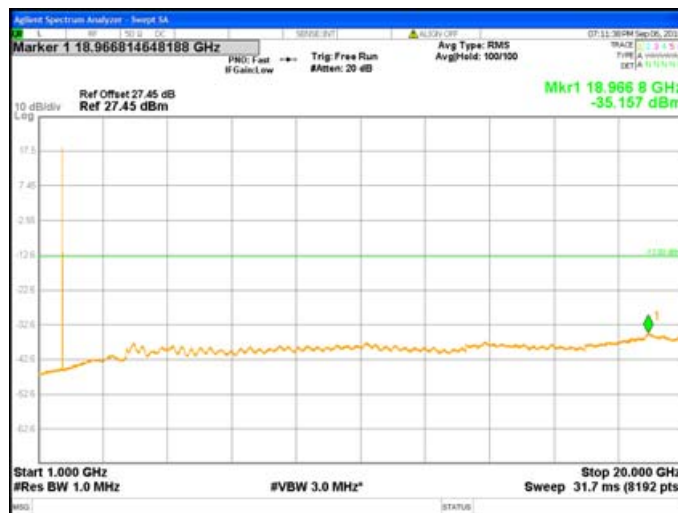
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Conducted Spurious 43-3 MHz-1711.5-16QAM



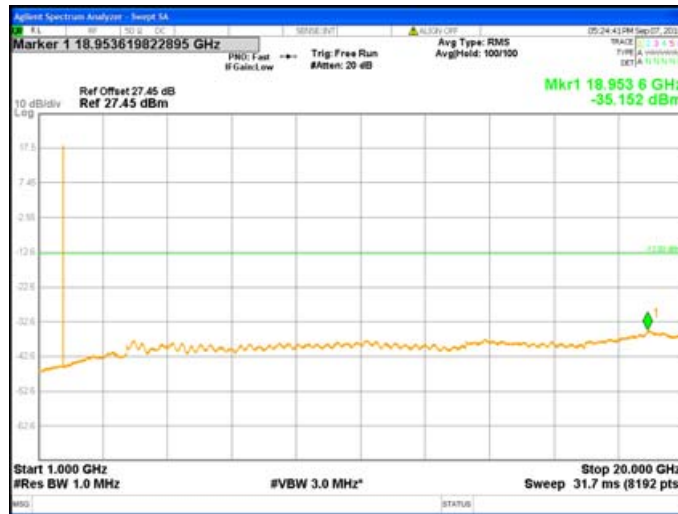
Conducted Spurious 44-3 MHz-1711.5-16QAM



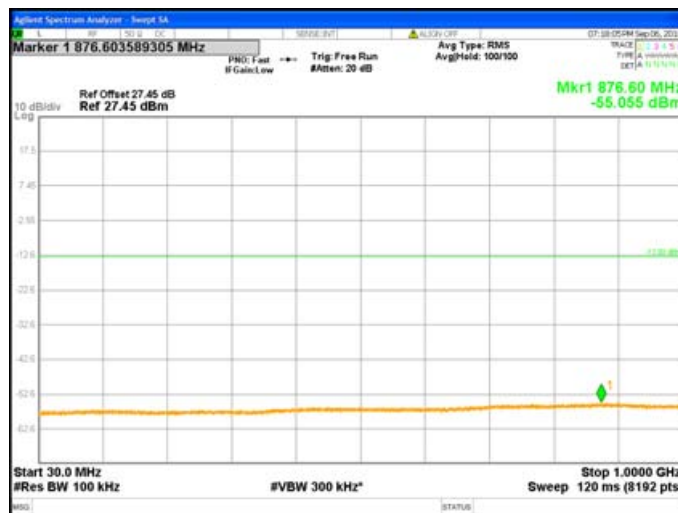
Conducted Spurious 45-3 MHz-1732.5-16QAM



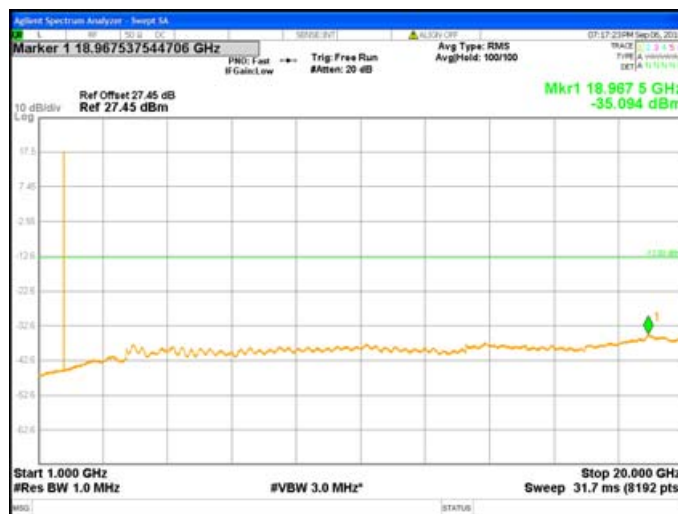
Conducted Spurious 46-3 MHz-1732.5-16QAM



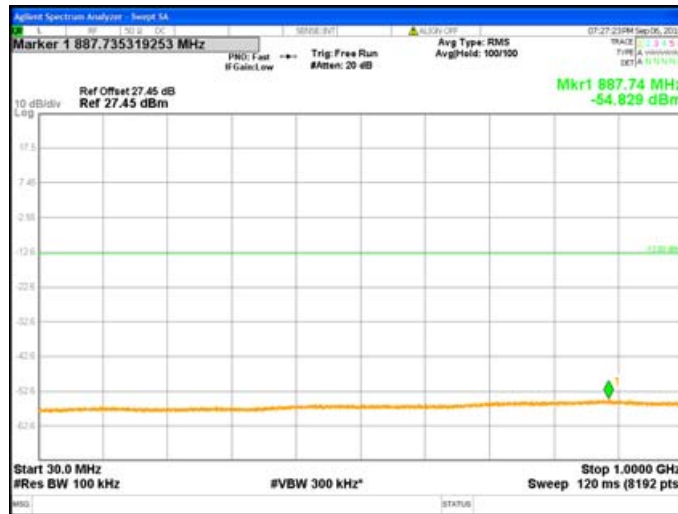
Conducted Spurious 47-3 MHz-1753.5-16QAM



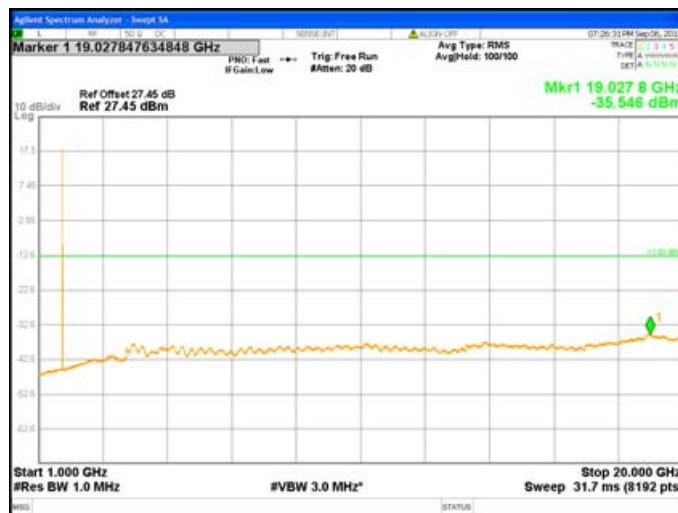
Conducted Spurious 48-3 MHz-1753.5-16QAM



Conducted Spurious 49-5 MHz-1712.5-16QAM



Conducted Spurious 50-5 MHz-1712.5-16QAM



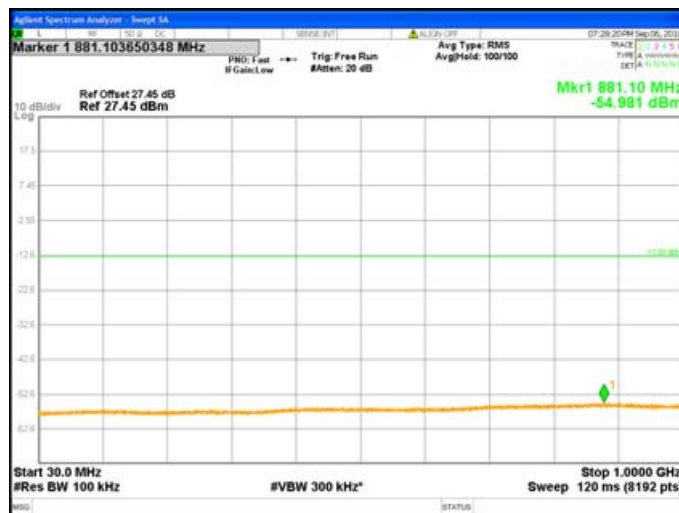
Conducted Spurious 51-5 MHz-1732.5-16QAM



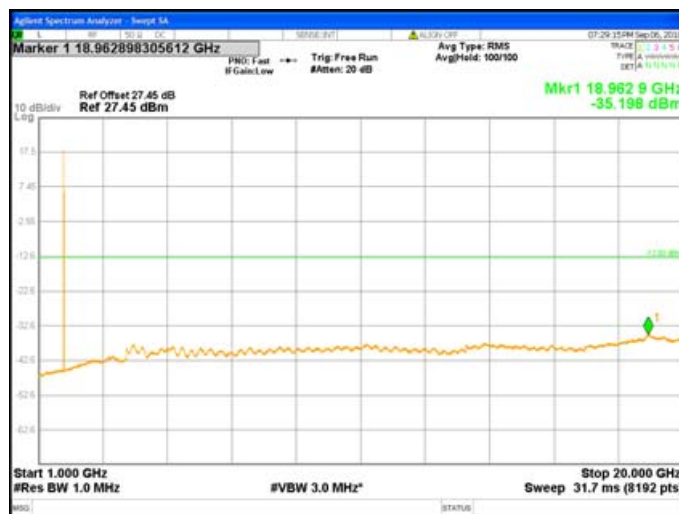
Conducted Spurious 52-5 MHz-1732.5-16QAM



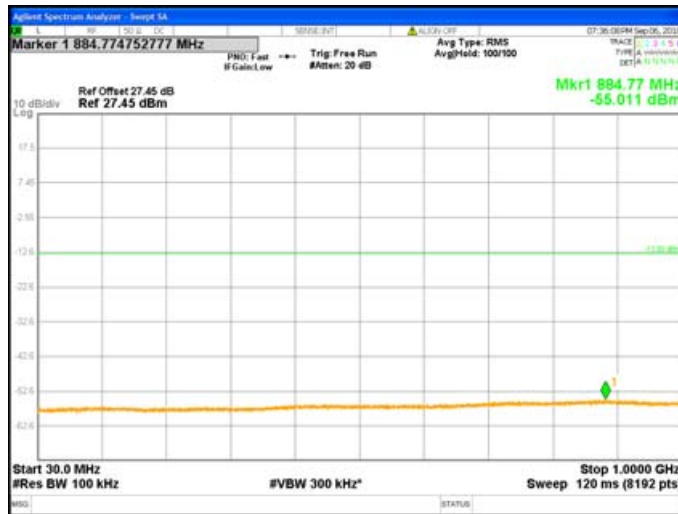
Conducted Spurious 53-5 MHz-1752.5-16QAM



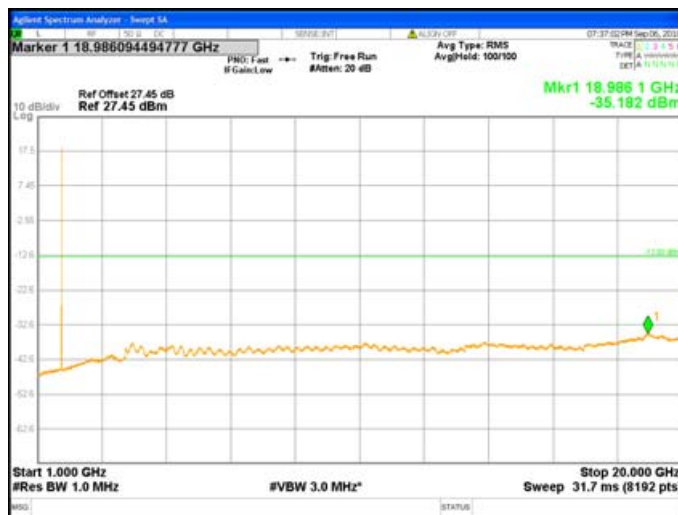
Conducted Spurious 54-5 MHz-1752.5-16QAM



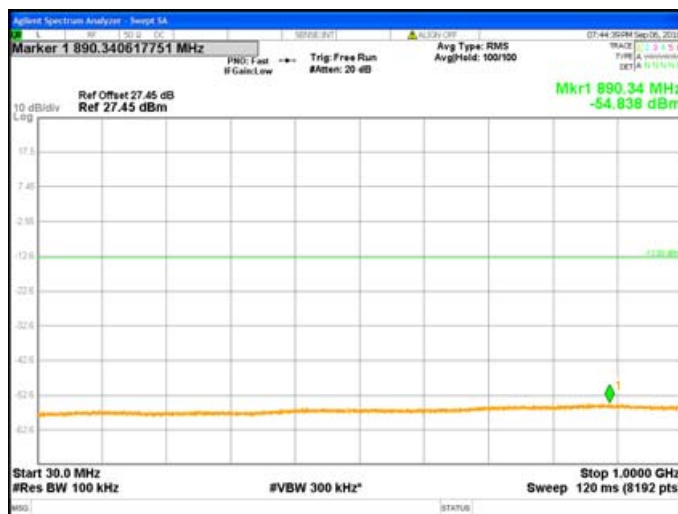
Conducted Spurious 55-10 MHz-1715-16QAM



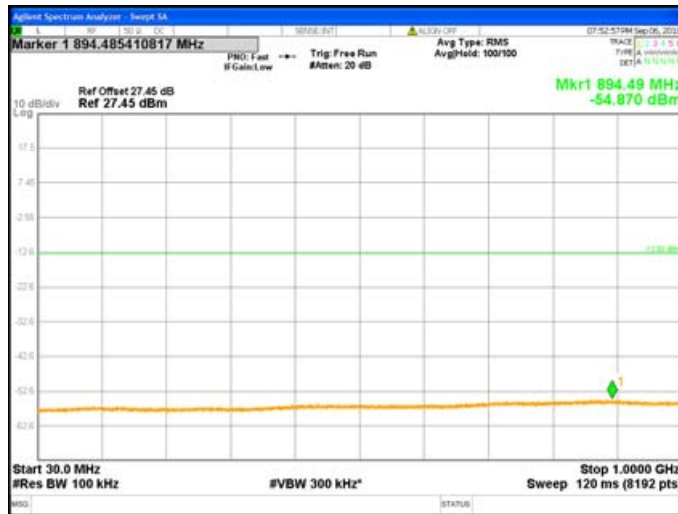
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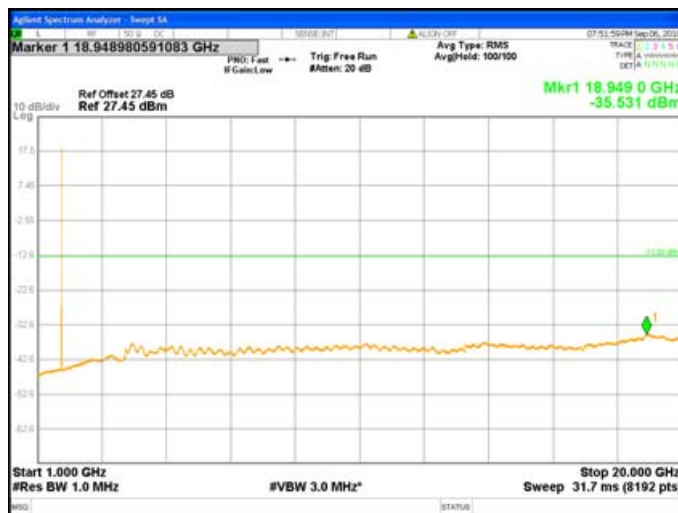
Conducted Spurious 57-10 MHz-1732.5-16QAM



Conducted Spurious 61-15 MHz-1717.5-16QAM



Conducted Spurious 62-15 MHz-1717.5-16QAM



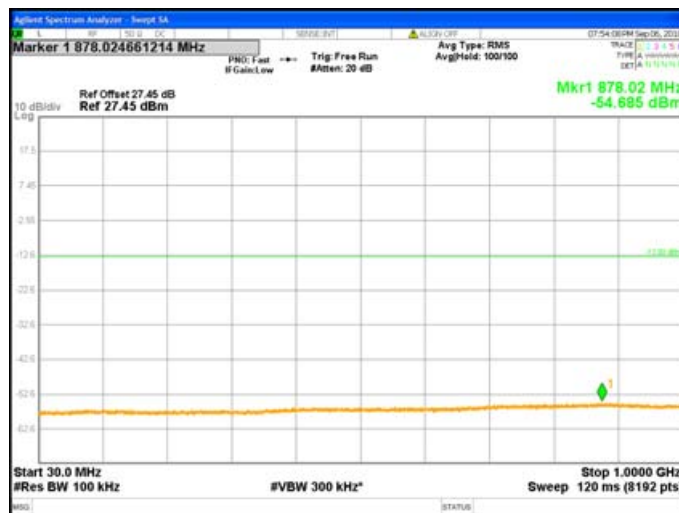
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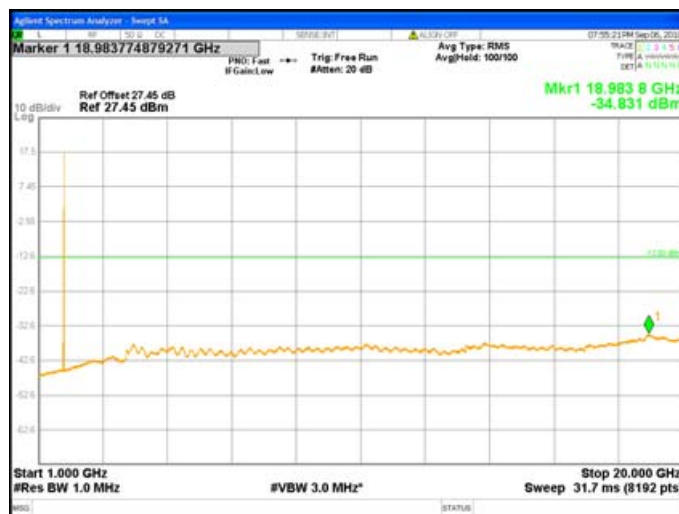
Conducted Spurious 64-15 MHz-1732.5-16QAM



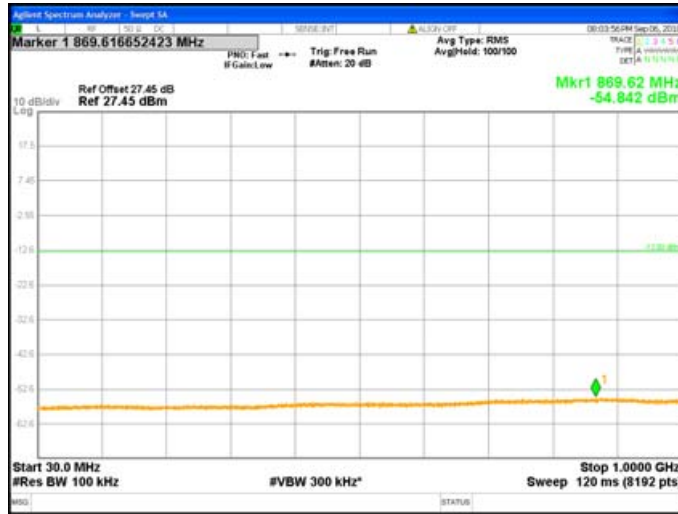
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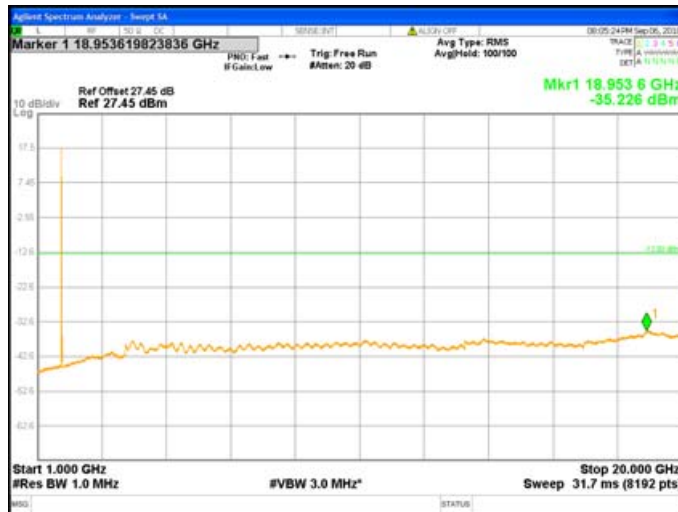
Conducted Spurious 66-15 MHz-1747.5-16QAM



Conducted Spurious 67-20 MHz-1720-16QAM



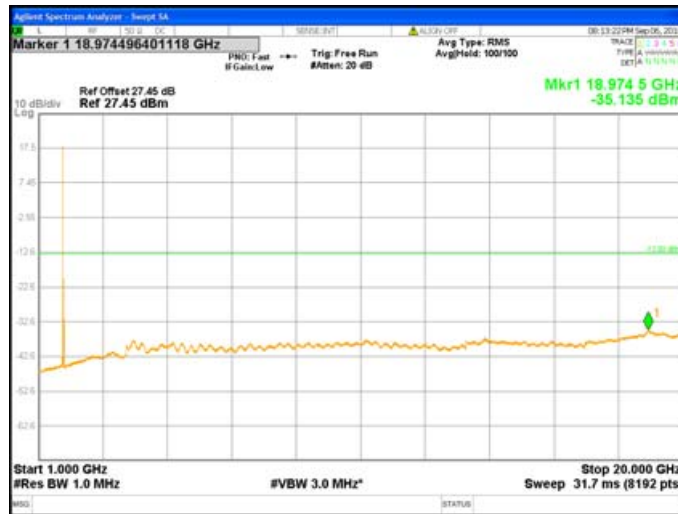
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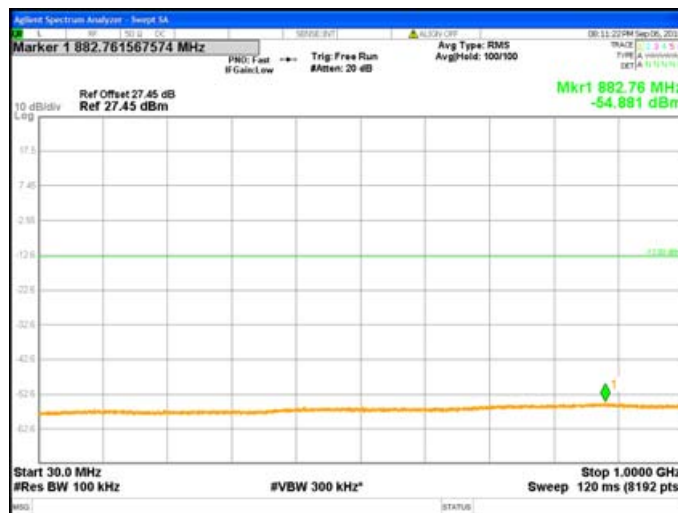
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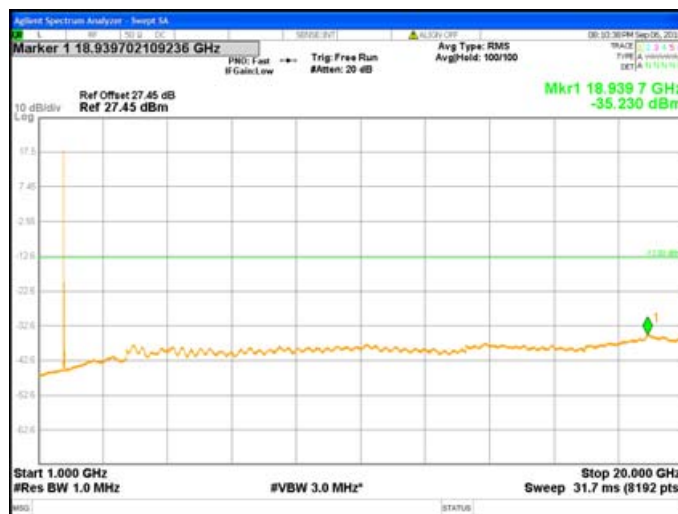
Conducted Spurious 70-20 MHz-1732.5-16QAM



Conducted Spurious 71-20 MHz-1745-16QAM



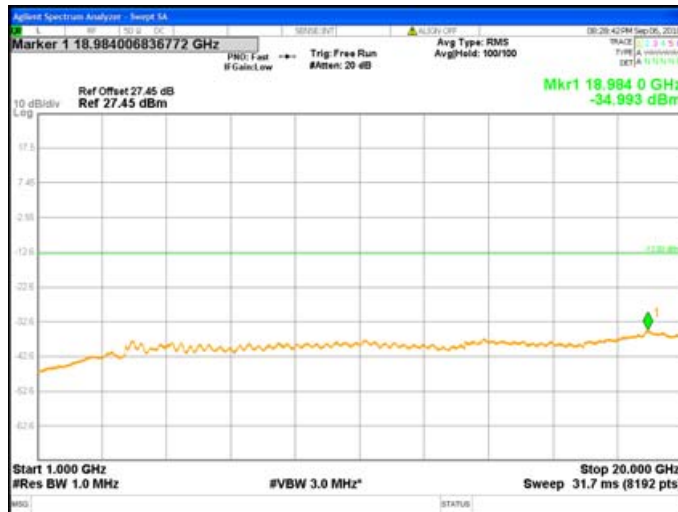
Conducted Spurious 72-20 MHz-1745-16QAM



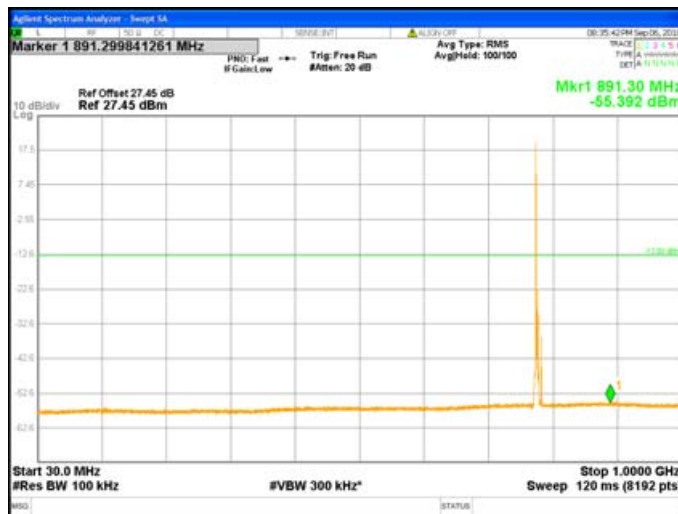
Conducted Spurious 73-5 MHz-779.5-QPSK



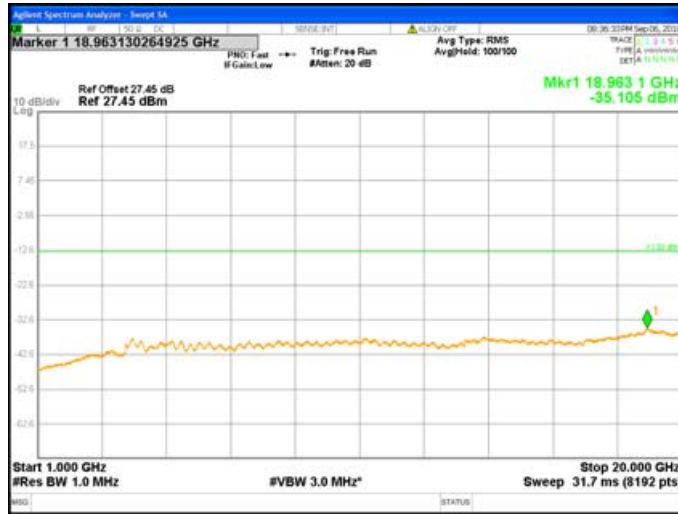
Conducted Spurious 74-5 MHz-779.5-QPSK



Conducted Spurious 75-5 MHz-782-QPSK



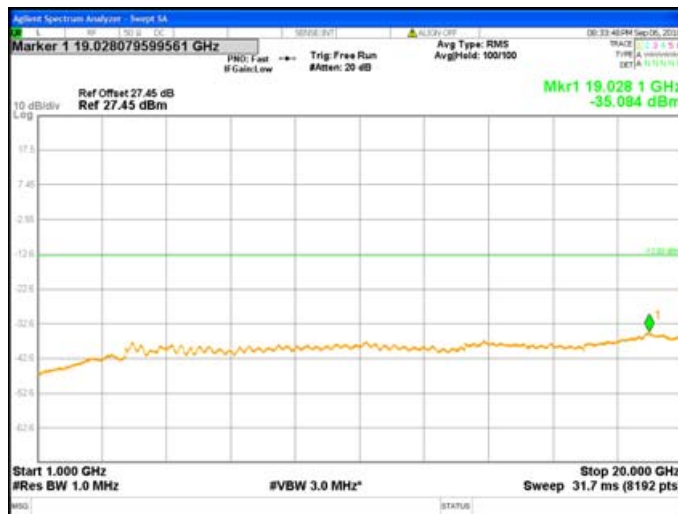
Conducted Spurious 76-5 MHz-782-QPSK



Conducted Spurious 77-5 MHz-784.5-QPSK



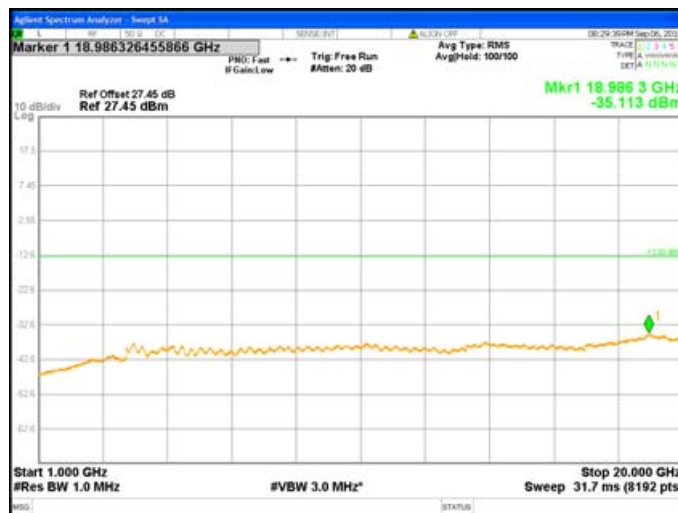
Conducted Spurious 78-5 MHz-784.5-QPSK



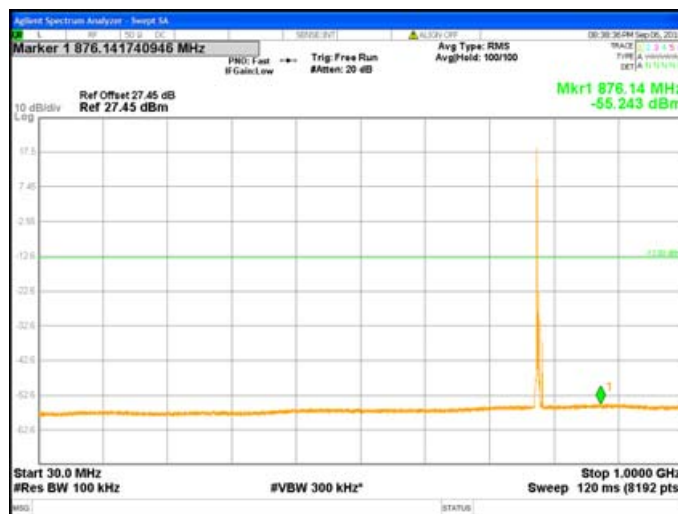
Conducted Spurious 79-5 MHz-779.5-16QAM



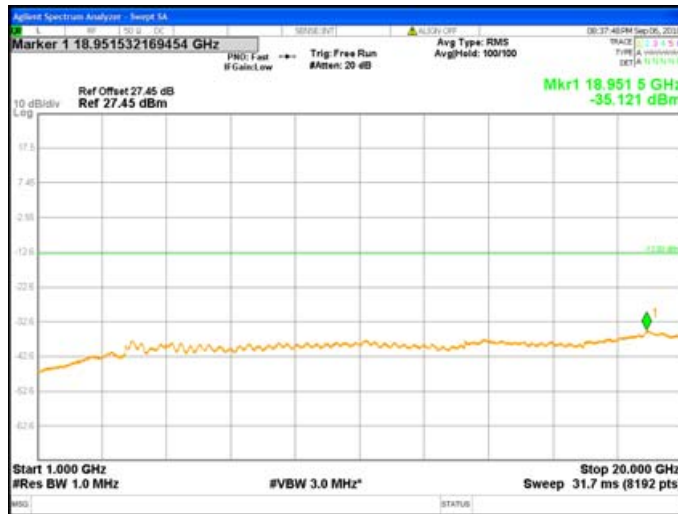
Conducted Spurious 80-5 MHz-779.5-16QAM



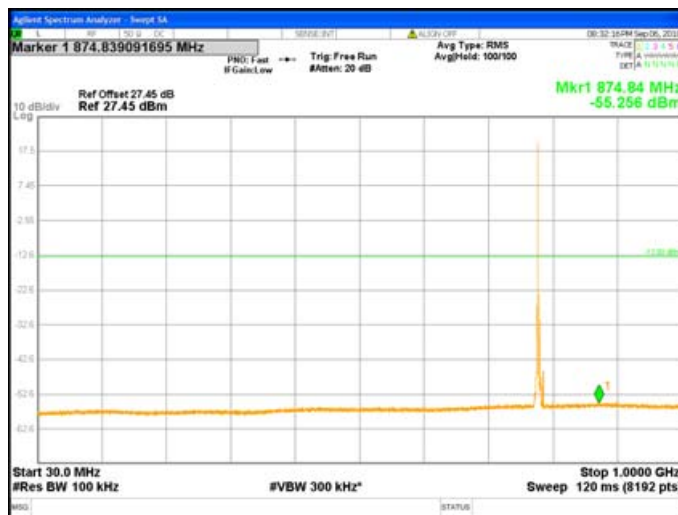
Conducted Spurious 81-5 MHz-782-16QAM



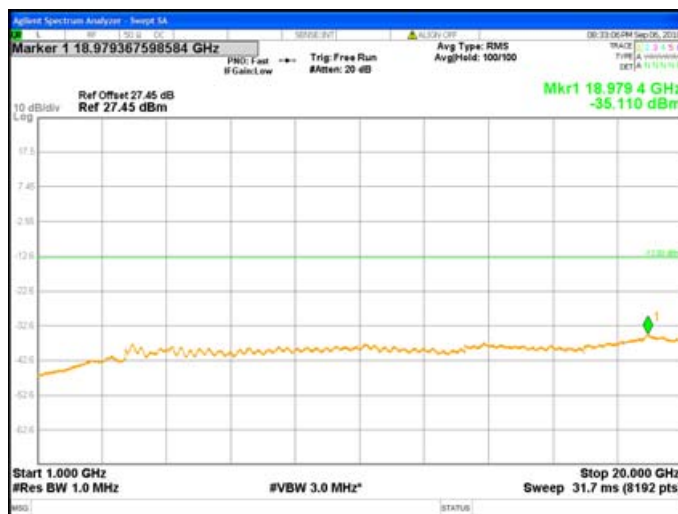
Conducted Spurious 82-5 MHz-782-16QAM



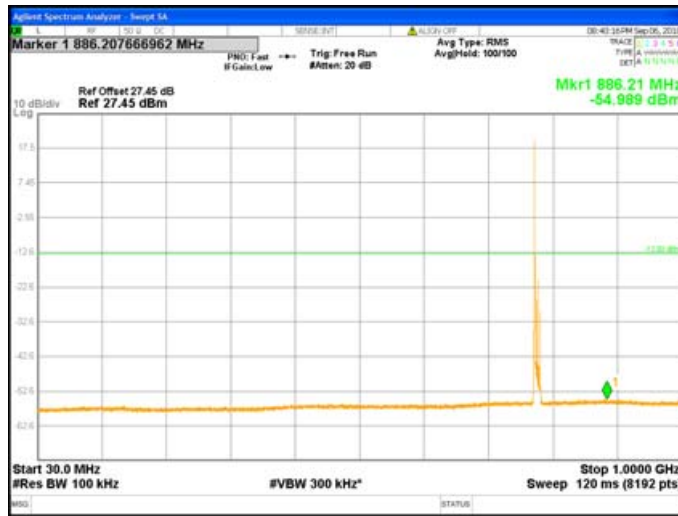
Conducted Spurious 83-5 MHz-784.5-16QAM



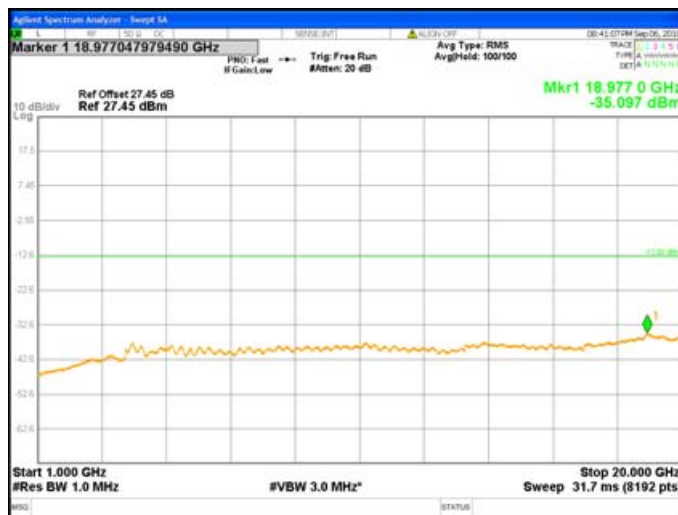
Conducted Spurious 84-5 MHz-784.5-16QAM



Conducted Spurious 85-10 MHz-782-QPSK



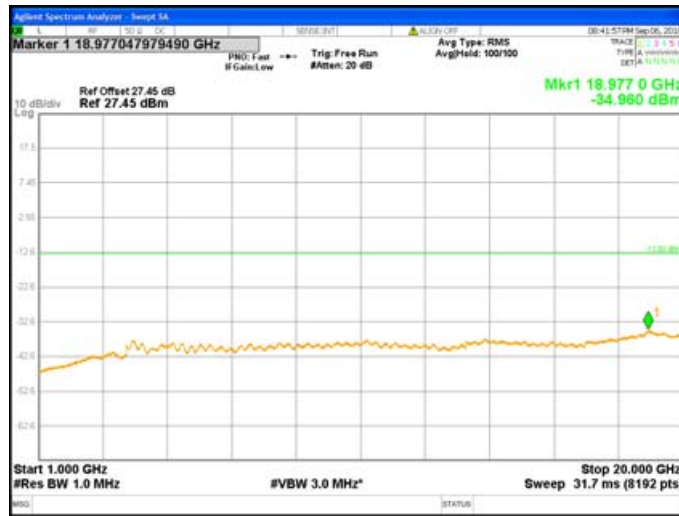
Conducted Spurious 86-10 MHz-782-QPSK



Conducted Spurious 87-10 MHz-782-16QAM



Conducted Spurious 88-10 MHz-782-16QAM



8. Radiated Emission Measurement

8.1 Test conditions

Temperature:	20	°C
Relative Humidity:	55	%
Atmospheric Pressure	1008	hPa

8.2 Limit for radiated emission measurement

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. The limit of emission equal to -13dBm

For operations in the 746–763 MHz, 775–793 MHz, and 805–806 MHz bands, emissions in the band 1559–1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

8.3 Test procedure

1. Substitution method is used for E.I.R.P 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.
2. The substitution horn 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

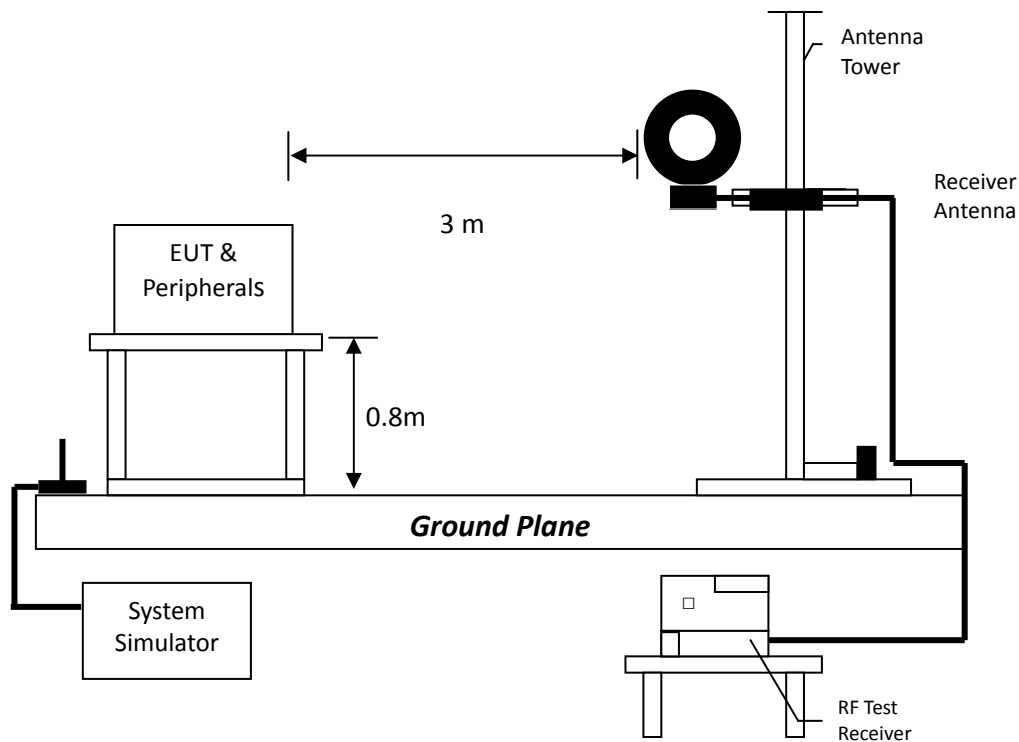
3. EIRP = Output power level of S.G –TX cable loss + Antenna gain of substitution horn.

4.E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.P.R power - 2.15dBi.

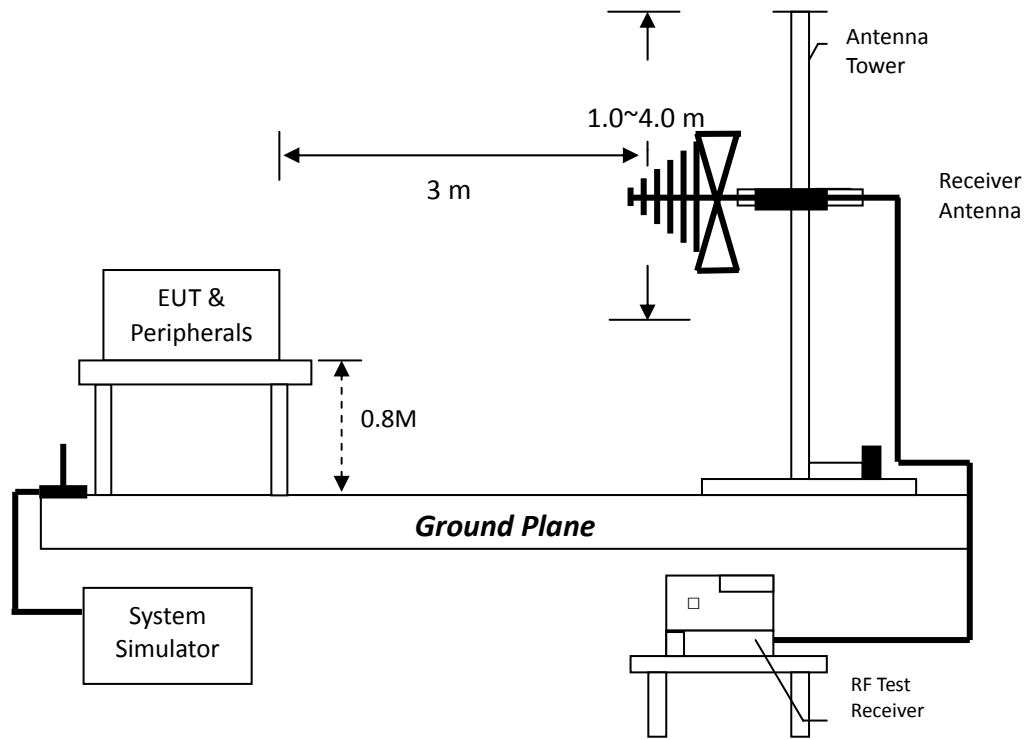
NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

8.4 Test configuration

Radiated emission from 9kHz to 30MHz uses Loop Antenna:

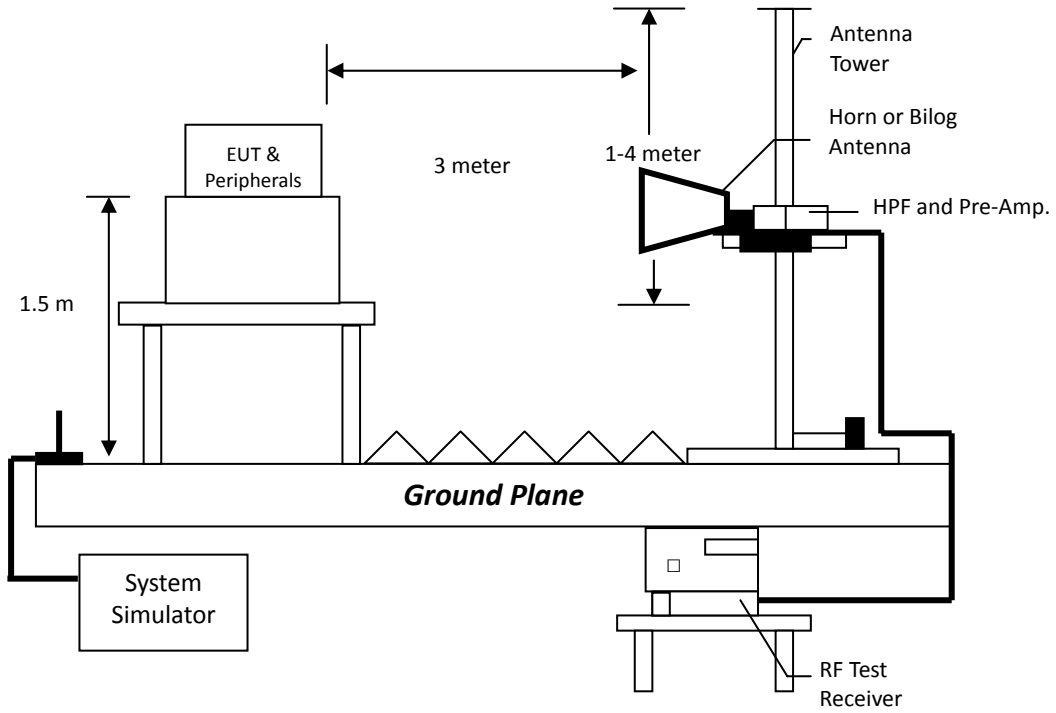


Radiated emission below 1GHz using Bilog Antenna

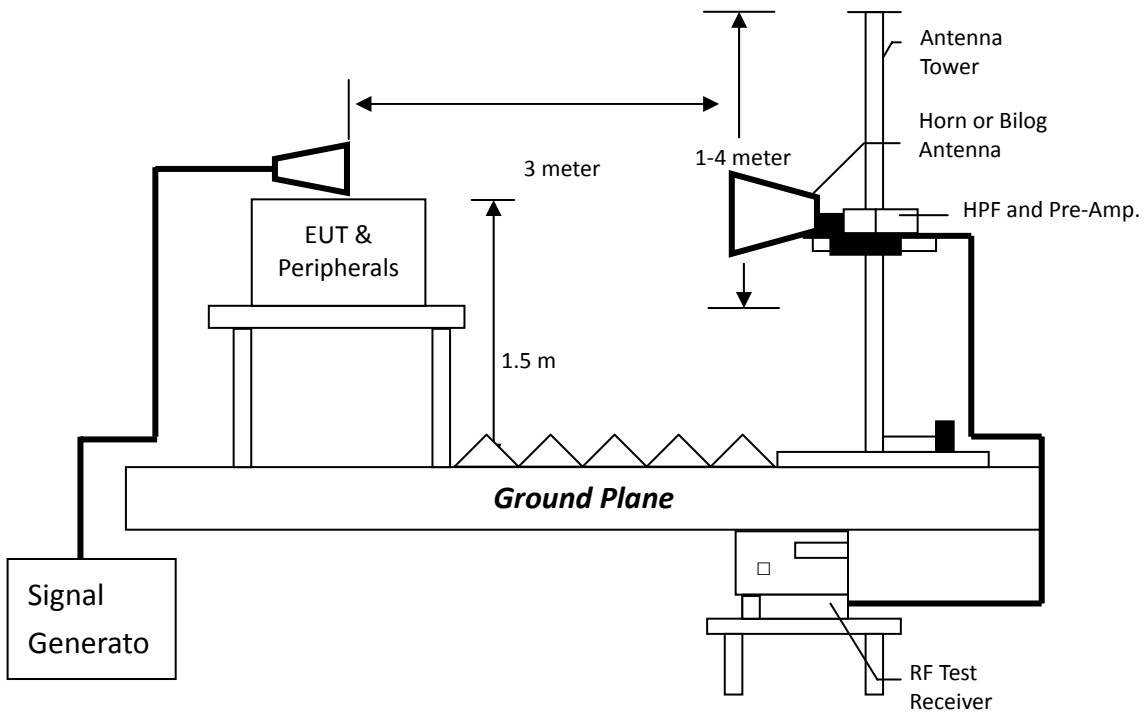


Radiated emission above 1GHz using Horn Antenna

Radiation Test



Radiated emission with Substitution Antenna



8.5 Test results

LTE Band 4

BW	Modulation method	Channel	Ver		Hor		Ant gain dB	Cable loss dB	Result		Margin		Limit dB
			Freq. (MHz)	S.G. Value (dBm)	Freq. (MHz)	S.G. Value (dBm)			Ver	Hor	Ver	Hor	
1.4M	QPSK	ch Low	3420	-60.29	3280	-64.74	9.84	-1.48	-48.97	-53.42	-35.97	-40.42	-13
			4974	-60.67	3420	-65.27	11.00	-1.75	-47.92	-52.52	-34.92	-39.52	-13
			7781	-53.70	3525	-65.91	11.31	-1.64	-40.75	-52.96	-27.75	-39.96	-13
		ch Mid	3126	-67.04	3133	-64.49	9.60	-1.00	-56.44	-53.89	-43.44	-40.89	-13
			3462	-61.68	3462	-63.82	9.87	-1.34	-50.47	-52.61	-37.47	-39.61	-13
			4981	-60.18	3532	-66.37	11.00	-1.74	-47.44	-53.63	-34.44	-40.63	-13
		ch High	3280	-65.94	3336	-53.27	9.72	-1.71	-54.50	-41.83	-41.50	-28.83	-13
			3504	-60.21	3504	-51.52	9.90	-1.29	-49.02	-40.33	-36.02	-27.33	-13
			4995	-60.67	4246	-58.74	11.00	-1.70	-47.97	-46.04	-34.97	-33.04	-13
	16QAM	ch Low	3420	-63.32	3210	-66.03	9.84	-1.48	-52.00	-54.71	-39.00	-41.71	-13
			4981	-61.59	3420	-64.04	11.00	-1.74	-48.85	-51.30	-35.85	-38.30	-13
			5128	-62.55	3735	-65.54	11.05	-1.59	-49.91	-52.90	-36.91	-39.90	-13
		ch Mid	3364	-65.38	3084	-65.02	9.79	-1.58	-54.01	-53.65	-41.01	-40.65	-13
			3462	-63.10	3462	-62.33	9.87	-1.34	-51.89	-51.12	-38.89	-38.12	-13
			4995	-61.81	3511	-66.09	11.00	-1.70	-49.11	-53.39	-36.11	-40.39	-13
		ch High	3196	-66.71	3070	-65.29	9.66	-1.93	-55.12	-53.70	-42.12	-40.70	-13
			3504	-61.27	3504	-63.62	9.90	-1.29	-50.08	-52.43	-37.08	-39.43	-13
			4981	-61.13	3560	-65.45	11.00	-1.74	-48.39	-52.71	-35.39	-39.71	-13

LTE Band 4

BW	Modulation method	Channel	Ver		Hor		Ant gain	Cable loss	Result		Margin		Limit
			Freq (MHz)	S.G. Value (dBm)	Freq (MHz)	S.G. Value (dBm)			dB	dB	Ver	Hor	
3M	QPSK	ch Low	3420	-61.31	3112	-65.18	9.84	-1.48	-49.99	-53.86	-36.99	-40.86	-13
			4981	-62.85	3420	-62.36	11.00	-1.74	-50.11	-49.62	-37.11	-36.62	-13
			8054	-53.76	4176	-64.86	11.41	-1.35	-40.99	-52.09	-27.99	-39.09	-13
		ch Mid	3042	-65.74	3252	-64.81	9.53	-0.86	-55.34	-54.41	-42.34	-41.41	-13
			3462	-62.70	3462	-63.36	9.87	-1.34	-51.49	-52.15	-38.49	-39.15	-13
			4981	-62.78	4309	-64.10	11.00	-1.74	-50.04	-51.36	-37.04	-38.36	-13
		ch High	3196	-66.90	3112	-65.70	9.66	-1.93	-55.31	-54.11	-42.31	-41.11	-13
			3504	-61.17	3504	-61.67	9.90	-1.29	-49.98	-50.48	-36.98	-37.48	-13
			4981	-61.52	4400	-64.65	11.00	-1.74	-48.78	-51.91	-35.78	-38.91	-13
	16QAM	ch Low	3420	-61.72	3420	-63.70	9.84	-1.48	-50.40	-52.38	-37.40	-39.38	-13
			4981	-60.93	5128	-62.28	11.00	-1.74	-48.19	-49.54	-35.19	-36.54	-13
			5499	-62.82	5527	-62.29	11.20	-1.87	-49.75	-49.22	-36.75	-36.22	-13
		ch Mid	3252	-67.19	3126	-65.71	9.70	-1.94	-55.55	-54.07	-42.55	-41.07	-13
			3462	-63.90	3462	-64.53	9.87	-1.34	-52.69	-53.32	-39.69	-40.32	-13
			4981	-61.73	4582	-64.25	11.00	-1.74	-48.99	-51.51	-35.99	-38.51	-13
		ch High	3126	-66.56	3280	-65.51	9.60	-1.00	-55.96	-54.91	-42.96	-41.91	-13
			3504	-63.11	3504	-64.03	9.90	-1.29	-51.92	-52.84	-38.92	-39.84	-13
			4974	-60.81	3987	-63.97	11.00	-1.75	-48.06	-51.22	-35.06	-38.22	-13

LTE Band 4

BW	Modulation method	Channel	Ver		Hor		Ant gain dB	Cable loss dB	Result		Margin		Limit dB
			Freq (MHz)	S.G. Value (dBm)	Freq (MHz)	S.G. Value (dBm)			Ver	Hor	Ver	Hor	
5M	QPSK	ch Low	3182	-66.39	3245	-65.83	9.65	-1.73	-55.02	-54.46	-42.02	-41.46	-13
			3427	-64.45	3427	-65.36	9.84	-1.45	-53.15	-54.06	-40.15	-41.06	-13
			4995	-60.58	3707	-64.15	11.00	-1.70	-47.88	-51.45	-34.88	-38.45	-13
		ch Mid	3063	-64.91	3217	-65.56	9.55	-0.83	-54.53	-55.18	-41.53	-42.18	-13
			3469	-61.06	3469	-63.20	9.88	-1.34	-49.85	-51.99	-36.85	-38.99	-13
			4995	-61.38	5037	-62.80	11.00	-1.70	-48.68	-50.10	-35.68	-37.10	-13
		ch High	3511	-58.78	3126	-66.30	9.90	-1.26	-47.63	-55.15	-34.63	-42.15	-13
			4365	-65.02	3504	-64.02	10.65	-2.10	-52.27	-51.27	-39.27	-38.27	-13
			4995	-60.09	3532	-67.06	11.00	-1.70	-47.39	-54.36	-34.39	-41.36	-13
	16QAM	ch Low	3427	-64.52	3126	-65.18	9.84	-1.45	-53.22	-53.88	-40.22	-40.88	-13
			4995	-61.63	3203	-64.79	11.00	-1.70	-48.93	-52.09	-35.93	-39.09	-13
			5527	-63.72	3294	-66.70	11.22	-1.84	-50.66	-53.64	-37.66	-40.64	-13
		ch Mid	3217	-66.02	3399	-65.77	9.67	-1.98	-54.37	-54.12	-41.37	-41.12	-13
			3469	-63.95	3469	-64.40	9.88	-1.34	-52.74	-53.19	-39.74	-40.19	-13
			4981	-61.91	3588	-65.30	11.00	-1.74	-49.17	-52.56	-36.17	-39.56	-13
		ch High	3119	-66.11	3133	-64.90	9.60	-0.93	-55.59	-54.38	-42.59	-41.38	-13
			3511	-62.25	3504	-64.54	9.90	-1.26	-51.10	-53.39	-38.10	-40.39	-13
			4988	-60.42	4106	-63.84	11.00	-1.72	-47.70	-51.12	-34.70	-38.12	-13

LTE Band 4

BW	Modulation method	Channel	Ver		Hor		Ant gain	Cable loss	Result		Margin		Limit
			Freq (MHz)	S.G. Value (dBm)	Freq (MHz)	S.G. Value (dBm)			dB	dB	Ver	Hor	
10M	QPSK	ch Low	3161	-65.53	3231	-65.80	9.63	-1.42	-54.49	-54.76	-41.49	-41.76	-13
			3426	-61.94	3427	-65.21	9.84	-1.46	-50.64	-53.91	-37.64	-40.91	-13
			4988	-61.12	4995	-62.37	11.00	-1.72	-48.40	-49.65	-35.40	-36.65	-13
		ch Mid	3126	-67.62	3308	-66.91	9.60	-1.00	-57.02	-56.31	-44.02	-43.31	-13
			3462	-60.59	3462	-64.07	9.87	-1.34	-49.38	-52.86	-36.38	-39.86	-13
			4981	-62.40	4981	-62.70	11.00	-1.74	-49.66	-49.96	-36.66	-36.96	-13
		ch High	3245	-66.62	3224	-65.66	9.70	-1.96	-54.96	-54.00	-41.96	-41.00	-13
			3497	-59.47	3497	-63.94	9.90	-1.31	-48.26	-52.73	-35.26	-39.73	-13
			4981	-61.21	3686	-65.50	11.00	-1.74	-48.47	-52.76	-35.47	-39.76	-13
	16QAM	ch Low	3126	-66.49	3126	-66.18	9.60	-1.00	-55.89	-55.58	-42.89	-42.58	-13
			3426	-63.60	3210	-66.26	9.84	-1.46	-52.30	-54.96	-39.30	-41.96	-13
			4981	-61.29	4631	-63.74	11.00	-1.74	-48.55	-51.00	-35.55	-38.00	-13
		ch Mid	3462	-62.17	3224	-65.91	9.87	-1.34	-50.96	-54.70	-37.96	-41.70	-13
			4155	-63.88	3462	-62.99	10.10	-2.18	-51.60	-50.71	-38.60	-37.71	-13
			4981	-60.18	3560	-65.81	11.00	-1.74	-47.44	-53.07	-34.44	-40.07	-13
		ch High	3126	-66.37	3140	-66.31	9.60	-1.00	-55.77	-55.71	-42.77	-42.71	-13
			3497	-61.35	3497	-63.30	9.90	-1.31	-50.14	-52.09	-37.14	-39.09	-13
			4995	-61.29	3714	-65.53	11.00	-1.70	-48.59	-52.83	-35.59	-39.83	-13

LTE Band 4

BW	Modulation method	Channel	Ver		Hor		Ant gain dB	Cable loss dB	Result		Margin		Limit dB
			Freq (MHz)	S.G. Value (dBm)	Freq (MHz)	S.G. Value (dBm)			Ver	Hor	Ver	Hor	
15M	QPSK	ch Low	3119	-66.99	3434	-66.28	9.60	-0.93	-56.47	-55.76	-43.47	-42.76	-13
			3434	-63.31	4148	-64.45	9.85	-1.42	-52.04	-53.18	-39.04	-40.18	-13
			4995	-61.19	4617	-65.50	11.00	-1.70	-48.49	-52.80	-35.49	-39.80	-13
		ch Mid	3119	-67.15	3056	-65.34	9.60	-0.93	-56.63	-54.82	-43.63	-41.82	-13
			3434	-61.90	3462	-63.18	9.85	-1.42	-50.63	-51.91	-37.63	-38.91	-13
			4995	-62.28	3518	-64.67	11.00	-1.70	-49.58	-51.97	-36.58	-38.97	-13
		ch High	3119	-66.76	3490	-64.88	9.60	-0.93	-56.24	-54.36	-43.24	-41.36	-13
			3490	-61.26	3525	-65.91	9.89	-1.32	-50.05	-54.70	-37.05	-41.70	-13
			4981	-62.81	4631	-63.99	11.00	-1.74	-50.07	-51.25	-37.07	-38.25	-13
	16QAM	ch Low	3126	-67.23	3315	-66.40	9.60	-1.00	-56.63	-55.80	-43.63	-42.80	-13
			3434	-64.55	3434	-66.02	9.85	-1.42	-53.28	-54.75	-40.28	-41.75	-13
			4981	-61.82	3546	-65.52	11.00	-1.74	-49.08	-52.78	-36.08	-39.78	-13
		ch Mid	3063	-64.19	3245	-66.37	9.55	-0.83	-53.81	-55.99	-40.81	-42.99	-13
			3462	-63.57	3462	-63.45	9.87	-1.34	-52.36	-52.24	-39.36	-39.24	-13
			3567	-65.87	3749	-65.40	9.87	-1.15	-54.84	-54.37	-41.84	-41.37	-13
		ch High	3161	-65.83	3217	-66.19	9.63	-1.42	-54.79	-55.15	-41.79	-42.15	-13
			3490	-61.79	3490	-61.85	9.89	-1.32	-50.58	-50.64	-37.58	-37.64	-13
			4981	-62.97	4988	-61.95	11.00	-1.74	-50.23	-49.21	-37.23	-36.21	-13

LTE Band 4

BW	Modulation method	Channel	Ver		Hor		Ant gain dB	Cable loss dB	Result		Margin		Limit dB
			Freq (MHz)	S.G. Value (dBm)	Freq (MHz)	S.G. Value (dBm)			Ver	Hor	Ver	Hor	
20M	QPSK	ch Low	3231	-66.68	3420	-65.11	9.68	-1.97	-55.02	-53.45	-42.02	-40.45	-13
			4995	-62.99	4624	-65.01	11.00	-1.70	-50.29	-52.31	-37.29	-39.31	-13
			7228	-51.90	5457	-62.31	11.53	-1.57	-38.81	-49.22	-25.81	-36.22	-13
		ch Mid	3448	-61.21	3448	-63.06	9.86	-1.36	-49.99	-51.84	-36.99	-38.84	-13
			4981	-62.64	3574	-65.24	11.00	-1.74	-49.90	-52.50	-36.90	-39.50	-13
			5443	-63.66	4232	-65.03	11.18	-2.02	-50.46	-51.83	-37.46	-38.83	-13
		ch High	4988	-63.03	3091	-64.54	11.00	-1.72	-50.31	-51.82	-37.31	-38.82	-13
			5170	-61.36	4596	-64.43	11.07	-1.86	-48.43	-51.50	-35.43	-38.50	-13
			7340	-52.25	7340	-52.80	11.39	-1.40	-39.46	-40.01	-26.46	-27.01	-13
	16QAM	ch Low	3119	-65.45	3231	-65.43	9.60	-0.93	-54.93	-54.91	-41.93	-41.91	-13
			3490	-64.45	3420	-66.11	9.89	-1.32	-53.24	-54.90	-40.24	-41.90	-13
			4988	-62.66	4904	-63.30	11.00	-1.72	-49.94	-50.58	-36.94	-37.58	-13
		ch Mid	3448	-63.11	3252	-65.74	9.86	-1.36	-51.89	-54.52	-38.89	-41.52	-13
			4981	-62.72	3448	-65.45	11.00	-1.74	-49.98	-52.71	-36.98	-39.71	-13
			7998	-54.63	3616	-65.12	11.40	-1.78	-41.45	-51.94	-28.45	-38.94	-13
		ch High	3294	-66.43	3280	-65.91	9.74	-1.60	-55.10	-54.58	-42.10	-41.58	-13
			4603	-62.32	4988	-62.99	11.00	-1.78	-49.54	-50.21	-36.54	-37.21	-13
			4988	-63.61	5506	-62.74	11.00	-1.72	-50.89	-50.02	-37.89	-37.02	-13

LTE Band 13

BW	Modulation method	Channel	Ver		Hor		Ant gain	Cable loss	Result		Margin		Limit
			Freq (MHz)	S.G. Value (dBm)	Freq (MHz)	S.G. Value (dBm)			dB	dB	Ver	Hor	
5M	QPSK	ch Low	3898	-25.85	3898	-30.59	9.74	-1.90	-14.21	-18.95	-1.21	-5.95	-13
			5459	-45.01	5459	-43.67	11.18	-2.01	-31.81	-30.47	-18.81	-17.47	-13
			7020	-43.51	7020	-41.47	11.78	-2.69	-29.04	-27.00	-16.04	-14.00	-13
		ch Mid	3912	-29.46	3912	-34.13	9.74	-1.75	-17.98	-22.65	-4.98	-9.65	-13
			5480	-45.29	5473	-46.29	11.19	-1.94	-32.16	-33.16	-19.16	-20.16	-13
			7041	-51.44	7041	-47.77	11.75	-2.69	-37.00	-33.33	-24.00	-20.33	-13
		ch High	3926	-36.94	3926	-42.93	9.73	-1.60	-25.61	-31.60	-12.61	-18.60	-13
			5494	-53.24	5494	-50.82	11.20	-1.89	-40.15	-37.73	-27.15	-24.73	-13
			7052	-54.77	7052	-52.95	11.74	-2.68	-40.35	-38.53	-27.35	-25.53	-13
	16QAM	ch Low	3898	-28.35	3898	-33.86	9.74	-1.90	-16.71	-22.22	-3.71	-9.22	-13
			5459	-50.08	5459	-42.45	11.18	-2.01	-36.88	-29.25	-23.88	-16.25	-13
			7020	-40.94	7020	-38.97	11.78	-2.69	-26.47	-24.50	-13.47	-11.50	-13
		ch Mid	3912	-35.25	3912	-35.22	9.74	-1.75	-23.77	-23.74	-10.77	-10.74	-13
			4696	-57.52	4696	-56.27	11.00	-1.83	-44.69	-43.44	-31.69	-30.44	-13
			5480	-44.47	7041	-49.31	11.19	-1.94	-31.34	-36.18	-18.34	-23.18	-13
		ch High	3926	-40.74	3926	-44.38	9.73	-1.60	-29.41	-33.05	-16.41	-20.05	-13
			5494	-51.42	5494	-55.13	11.20	-1.89	-38.33	-42.04	-25.33	-29.04	-13
			7062	-54.68	7062	-53.00	11.73	-2.63	-40.32	-38.64	-27.32	-25.64	-13
10M	QPSK	ch Mid	3933	-26.07	3933	-33.26	9.73	-1.52	-14.82	-22.01	-1.82	-9.01	-13
			5508	-47.35	5508	-44.10	11.21	-1.86	-34.28	-31.03	-21.28	-18.03	-13
			7083	-51.71	7083	-48.91	11.70	-2.52	-37.49	-34.69	-24.49	-21.69	-13
	16QAM	ch Mid	3933	-30.53	3933	-37.21	9.73	-1.52	-19.28	-25.96	-6.28	-12.96	-13
			5508	-47.36	5508	-45.26	11.21	-1.86	-34.29	-32.19	-21.29	-19.19	-13
			7083	-53.24	7083	-51.82	11.70	-2.52	-39.02	-37.60	-26.02	-24.60	-13

Appendix A: Test equipment list

Test Equipment/ Test site	Brand	Model No.	Serial No.	Calibration Date	Next Calibration Date
ESCI EMI Test Receiver	Rohde & Schwarz	ESCI	100018	2017/11/21	2018/11/20
Spectrum Analyzer	Rohde & Schwarz	FSP30	100245	2018/02/23	2019/02/22
Horn Antenna (1-18G)	SHWARZBECK	BBHA 9120 D	9120D-456	2018/01/23	2019/01/22
Horn Antenna (14-42G)	SHWARZBECK	BBHA 9170	BBHA9170159	2017/09/04	2020/09/02
Broadband Antenna	SHWARZBECK	VULB 9168	9168-172	2018/04/23	2019/04/22
Pre-Amplifier	EMC Co.	EMC12635SE	980205	2017/11/28	2018/11/27
Pre-Amplifier	MITEQ	JS4-26004000--27-8A	828825	2018/08/28	2019/08/27
Power Meter	Anritsu	ML2495A	0844001	2017/10/18	2018/10/17
Power Sensor	Anritsu	MA2411B	0738452	2017/10/18	2018/10/17
Signal Analyzer	Agilent	N9030A	MY51380492	2018/08/24	2019/08/23
966-2(A) Cable 9kHz~26.5GHz	SUHNER	SMA / EX 100	N/A	2018/08/07	2019/08/06
966-2(B) Cable 9kHz~26.5GHz	SUHNER	SUCOFLEX 104P	CB0005	2018/08/07	2019/08/06
RF Cable 9kHz~26.5GHz	SUHNER	SUCOFLEX 102	CB0006	2018/05/03	2019/05/02
966-2_3m Semi-Anechoic Chamber	966_2	CEM-966_2	N/A	2018/03/05	2019/03/04
High Pass Filter	Wainwright	WHKX3.0/18G-12SS	N/A	2018/06/01	2019/05/31
Active Loop Antenna	SCHWARZBECK MESS-ELEKTRONIC	FMZB1519	1519-067	2018/04/17	2019/04/16
Wideband Radio Communication Tester	Rohde & Schwarz	CMW500	124781	2017/09/20	2018/09/19

Note: No Calibration Required (NCR)

TEST REPORT

Appendix B: Measurement Uncertainty

This uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level using a coverage factor of $k=2$.

Item	Uncertainty
Vertically polarized radiated disturbances from 30MHz~1GHz in a semi-anechoic chamber at a distance of 3m	5.14 dB
Horizontally polarized radiated disturbances from 30MHz~1GHz in a semi-anechoic chamber at a distance of 3m	5.22 dB
Vertically polarized Radiated disturbances from 1GHz~18GHz in a semi-anechoic chamber at a distance of 3m	3.64 dB
Horizontally polarized Radiated disturbances from 1GHz~18GHz in a semi-anechoic chamber at a distance of 3m	3.64 dB
Vertically polarized Radiated disturbances from 18GHz~40GHz in a semi-anechoic chamber at a distance of 3m	2.68 dB
Horizontally polarized Radiated disturbances from 18GHz~40GHz in a semi-anechoic chamber at a distance of 3m	2.68 dB
Radiated disturbances from 9kHz~30MHz in a semi-anechoic chamber at a distance of 3m	3.54 dB
Emission on the Band Edge Test	3.64 dB
Minimum 6dB Bandwidth	0.85 dB
Maximum Conducted Output Power	0.42 dB
Power Spectral Density	0.85 dB
Emissions In Non-Restricted Frequency Bands	0.85 dB
AC Power Line Conducted Emission	2.48 dB