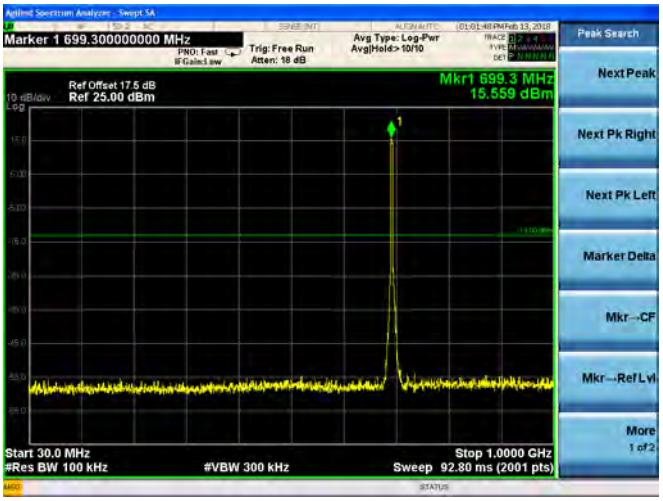
LTE Band 12 3MHz BW Low Channel	
QPSK	
	
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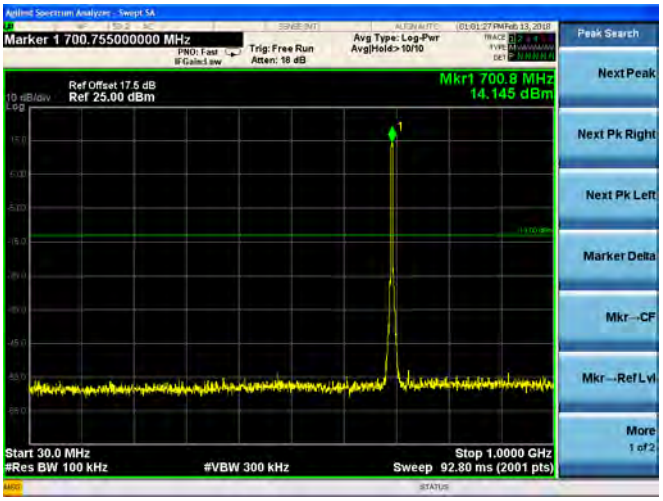
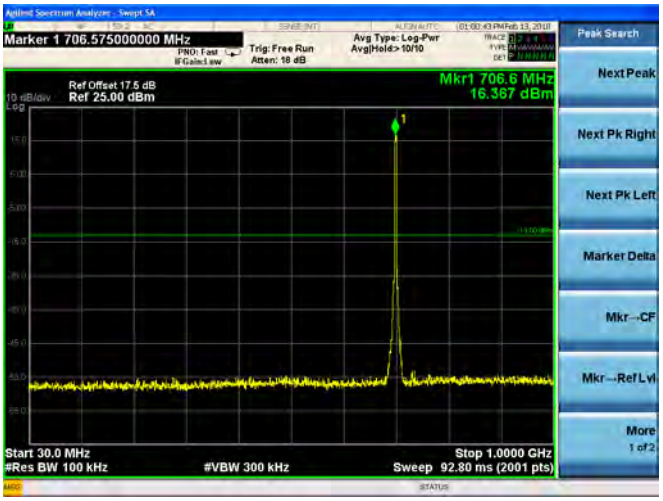
	

LTE Band 12 3MHz BW Mid Channel	
QPSK	
	
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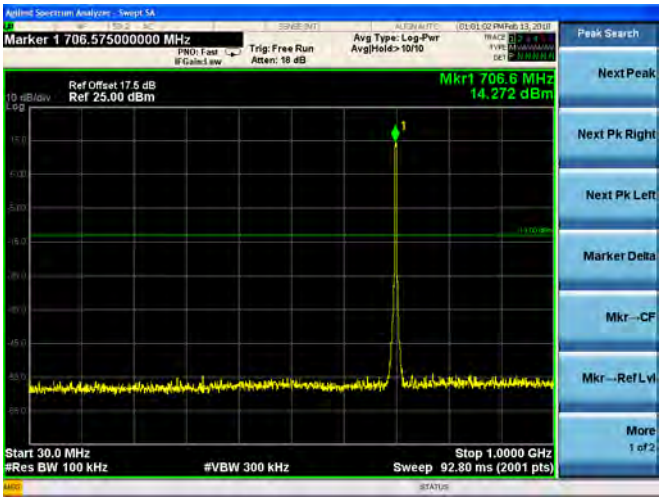	

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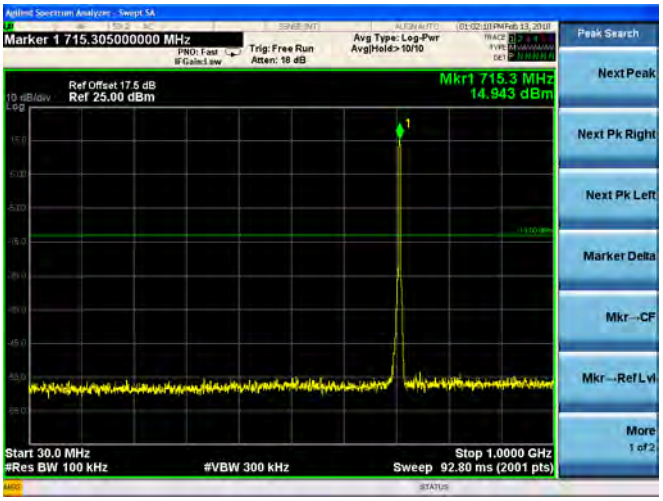	
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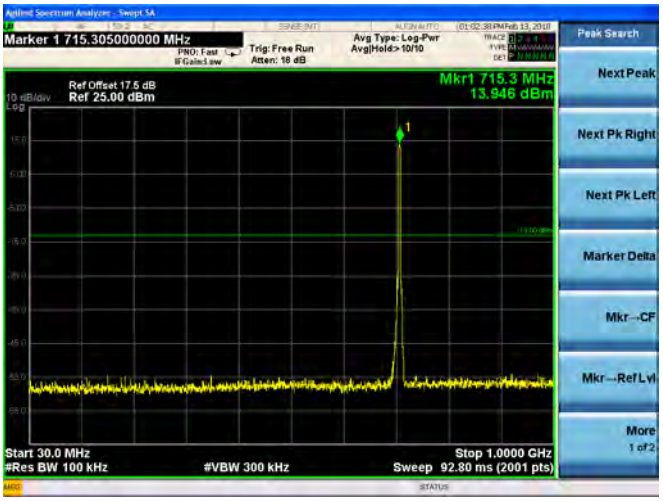	

LTE Band 12 5MHz BW Low Channel	
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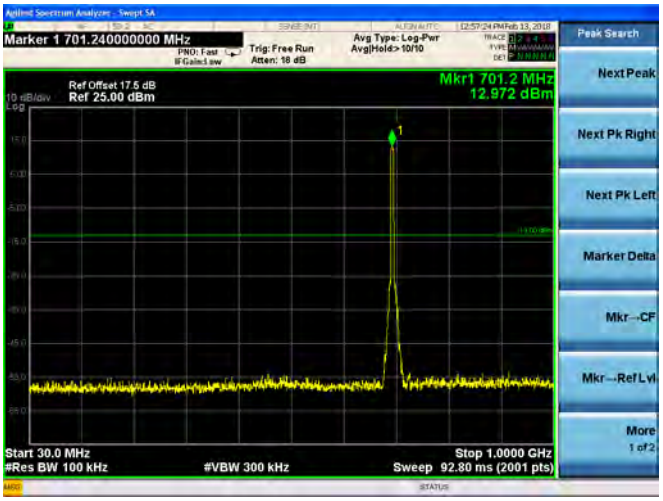	
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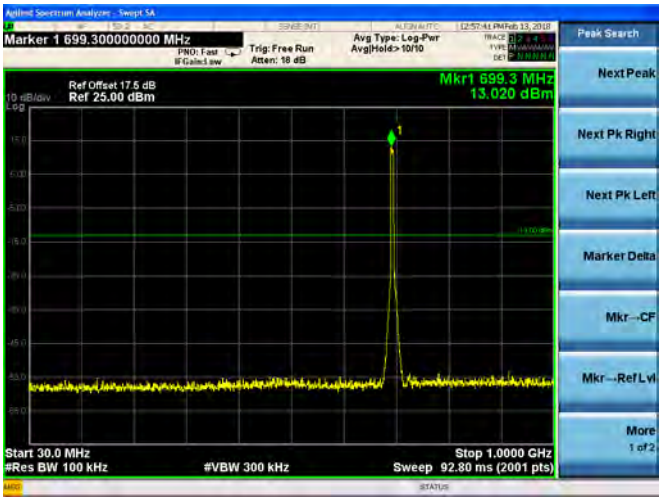
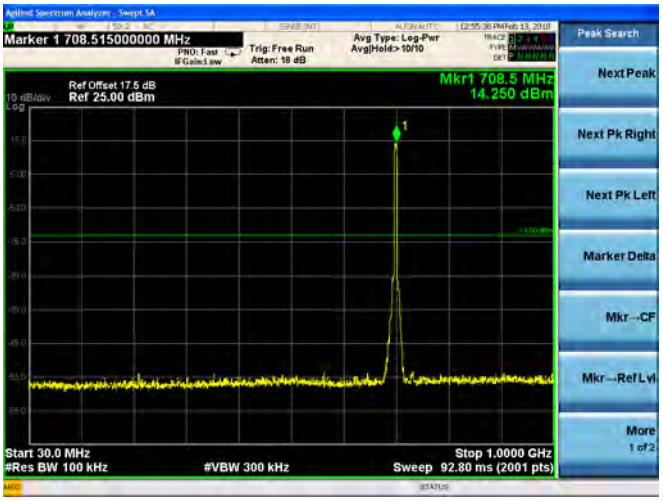
	

LTE Band 12 5MHz BW Mid Channel	
QPSK	
	
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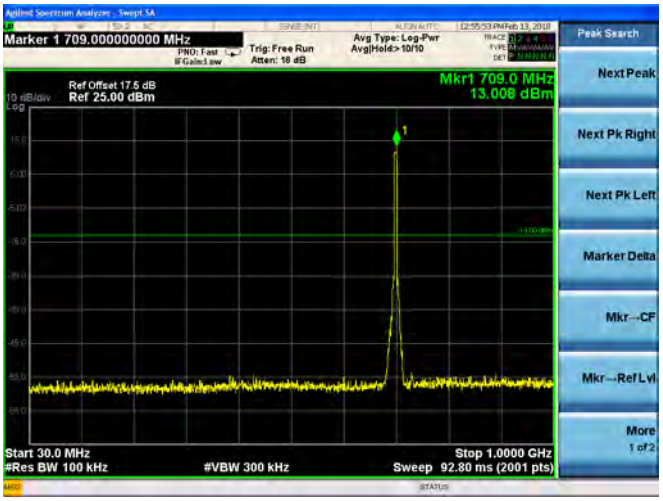
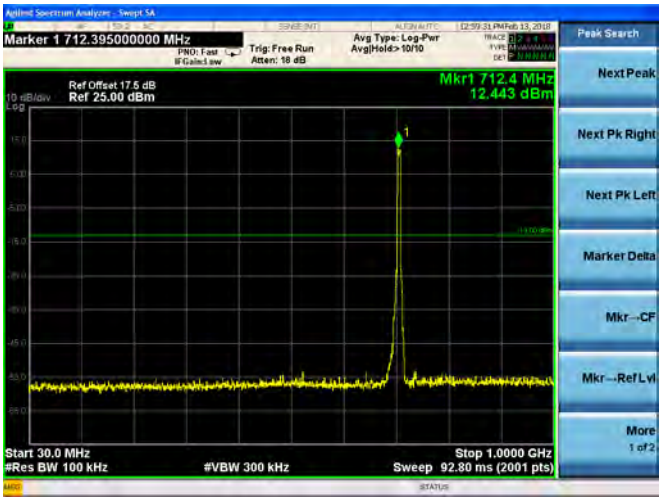
	

LTE Band 12 5MHz BW High Channel	
QPSK	
	
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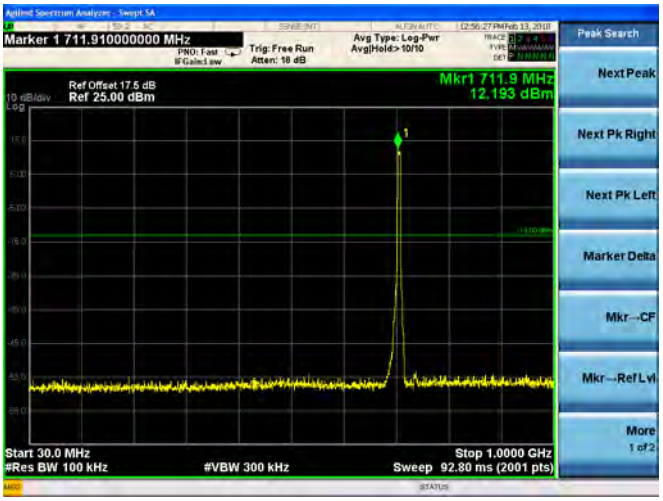
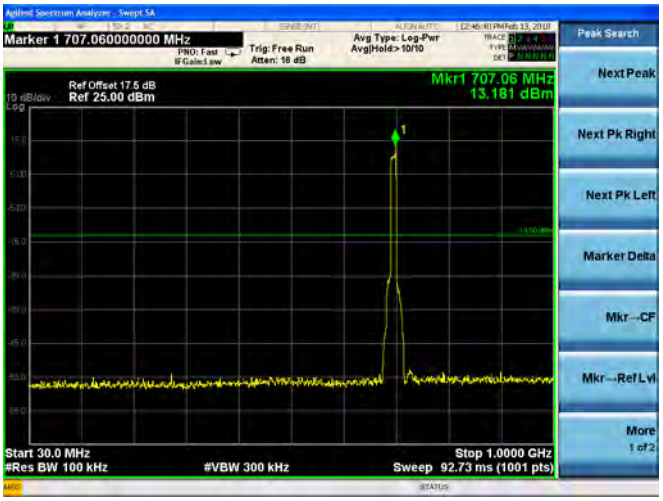
	

LTE Band 12 10MHz BW Low Channel	
QPSK	
	
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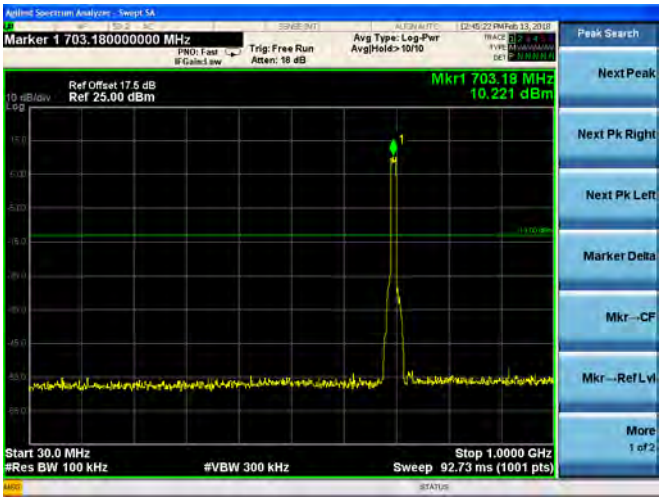
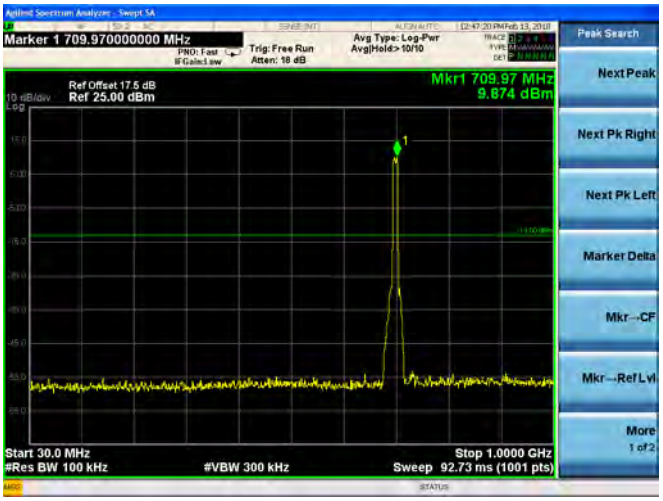
	

LTE Band 12 10MHz BW Mid Channel	
QPSK	
	
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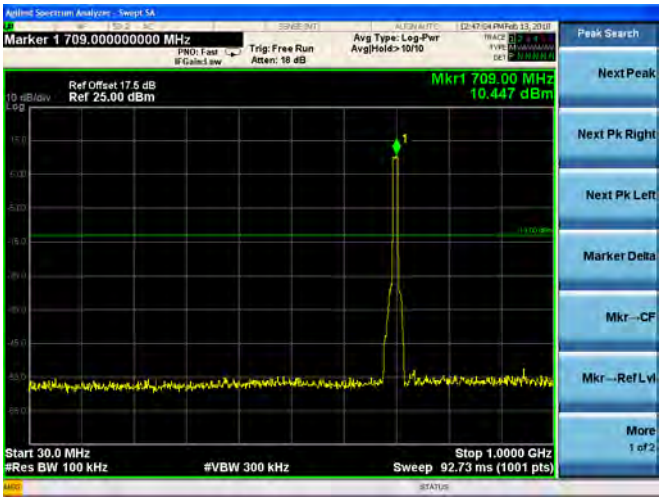
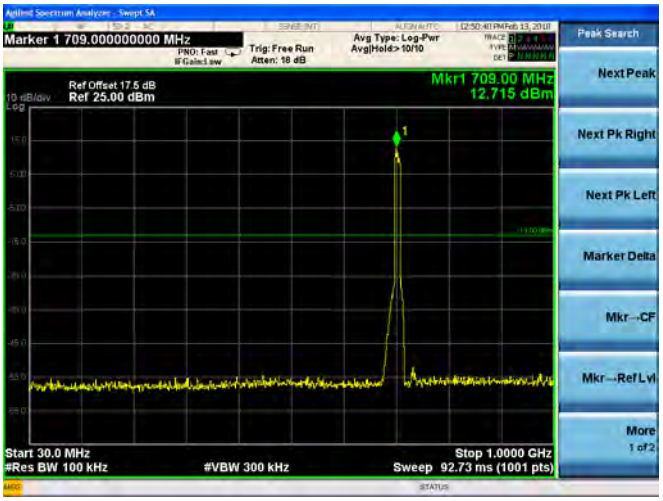
	

LTE Band 12 10MHz BW High Channel	
QPSK	
	
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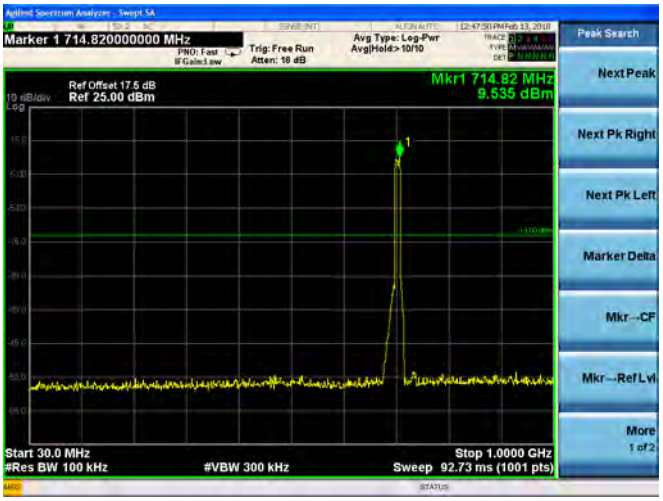
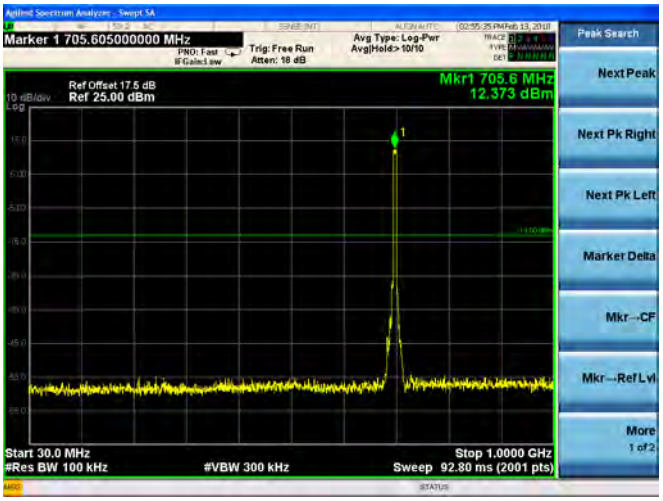
	

LTE Band 17 5MHz BW Low Channel	
QPSK	
	
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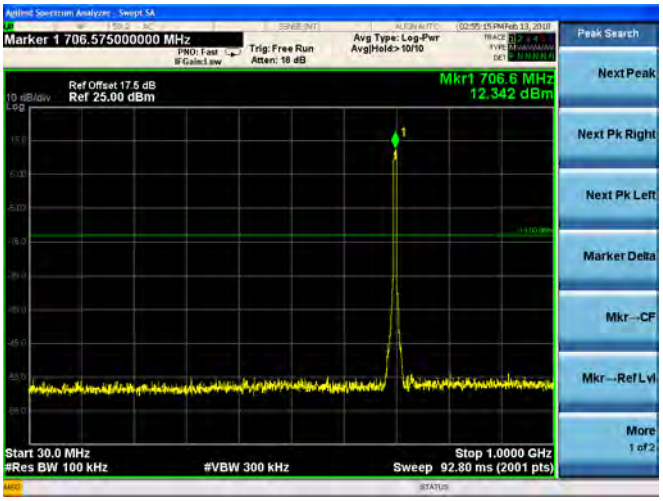
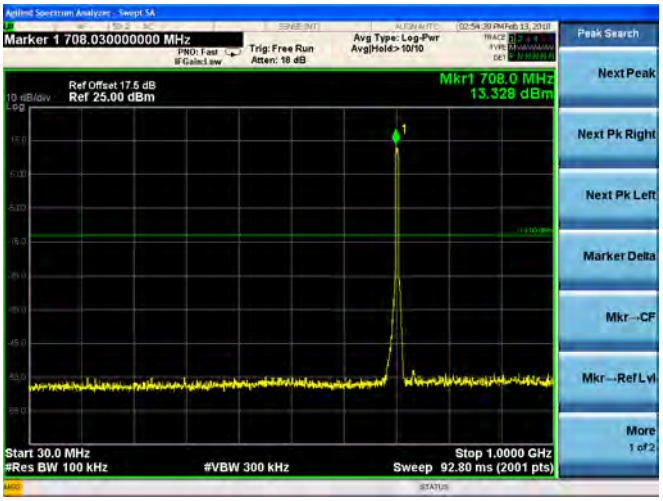
	

LTE Band 17 5MHz BW Mid Channel	
QPSK	
	
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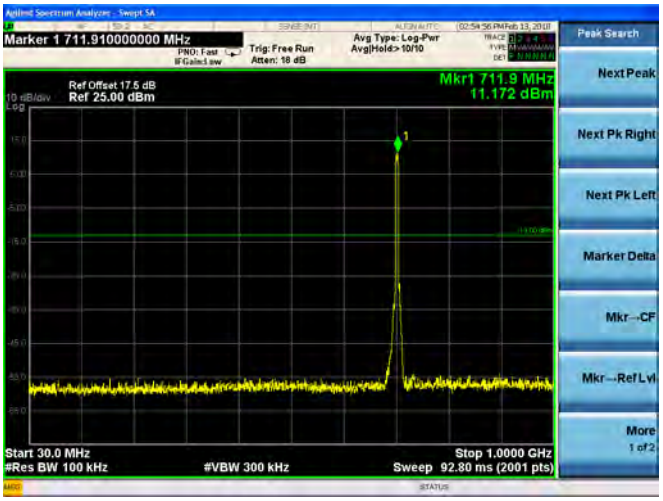
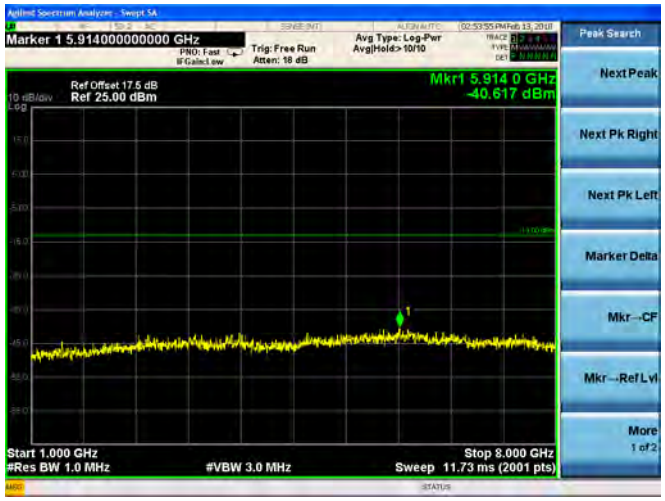
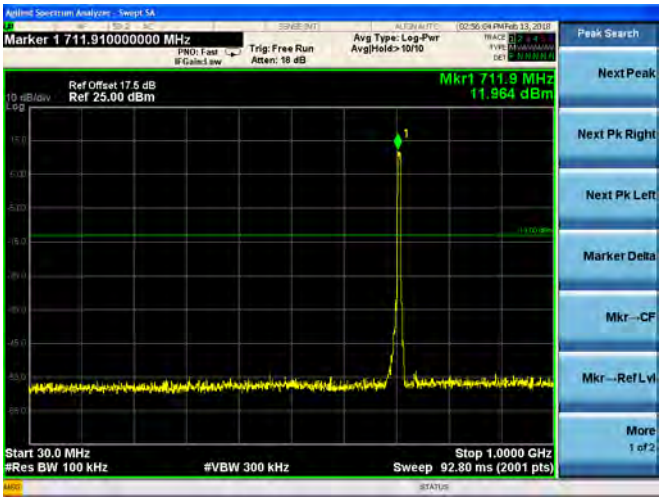
	

LTE Band 17 5MHz BW High Channel	
QPSK	
	
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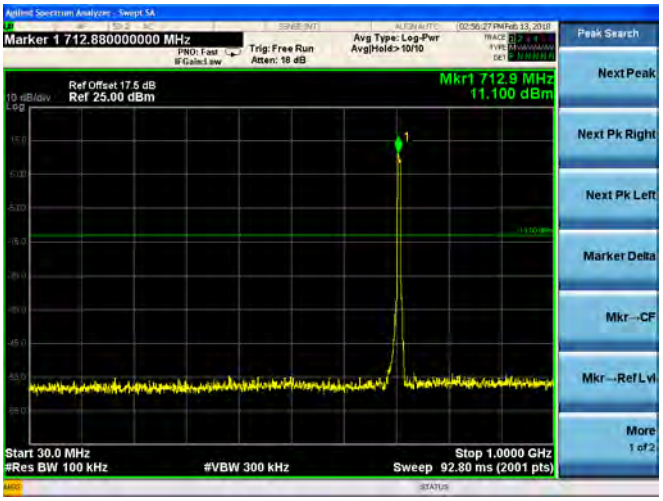
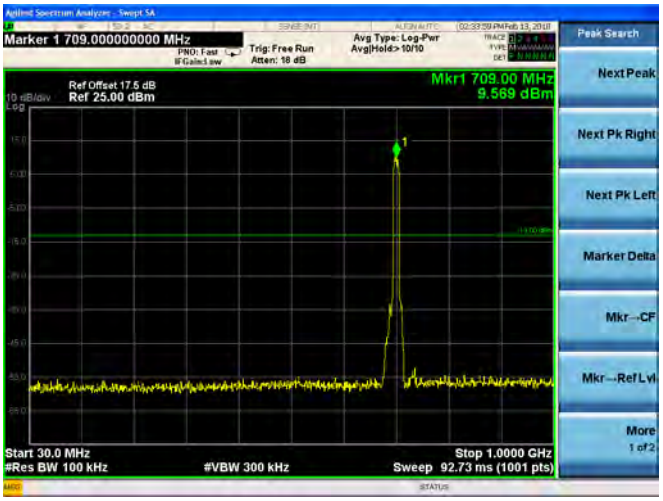
	

LTE Band 17 10MHz BW Low Channel	
QPSK	
	
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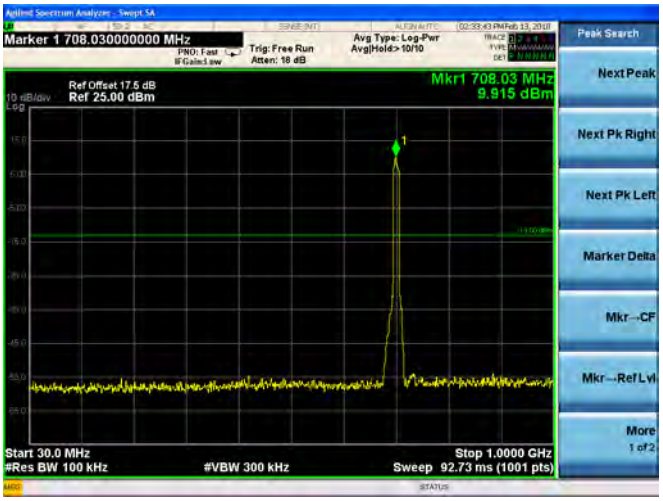
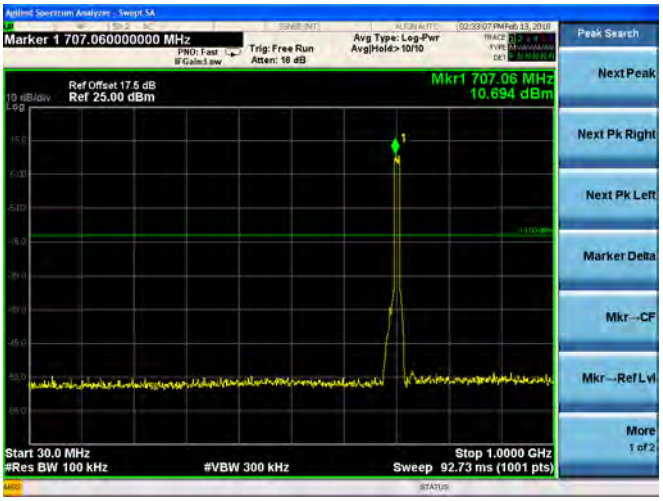
	

LTE Band 17 10MHz BW Mid Channel	
QPSK	
	
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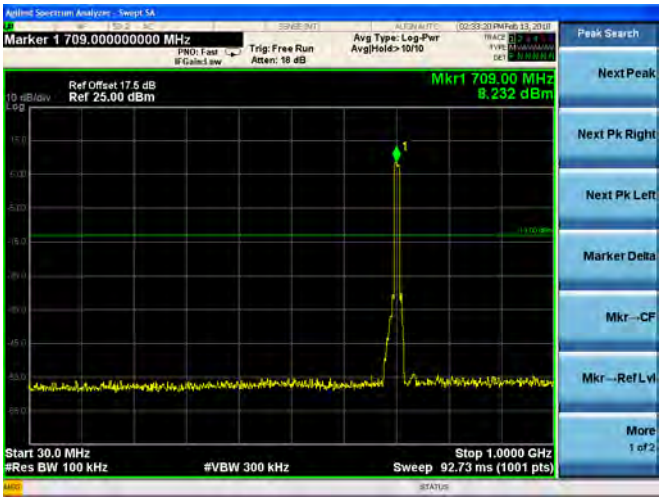
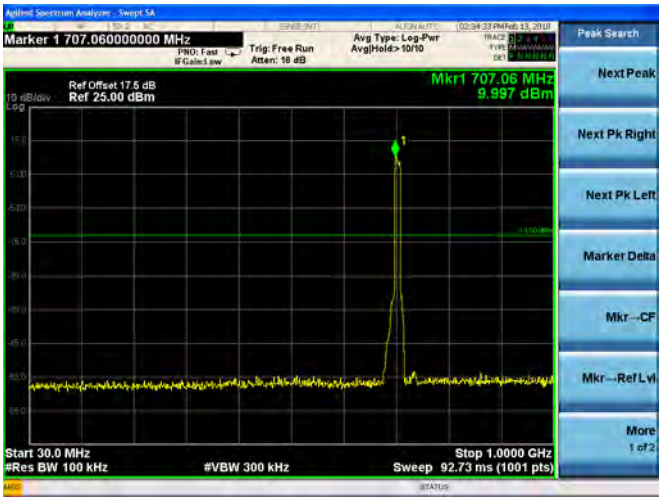
	

LTE Band 17 10MHz BW High Channel	
QPSK	
	
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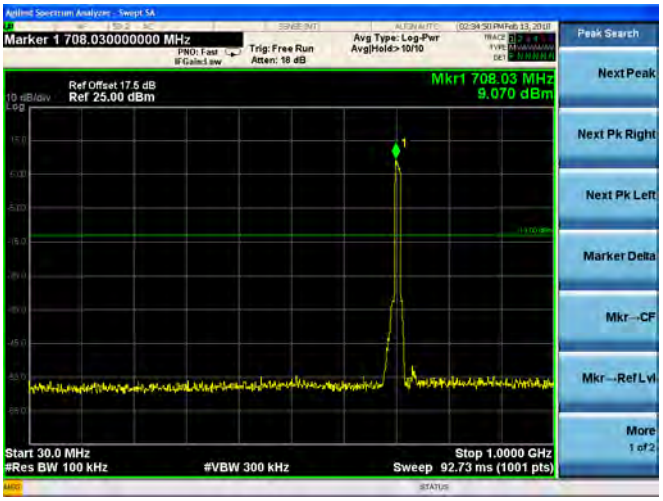
	

2.6. Band Edge

2.6.1. Requirement

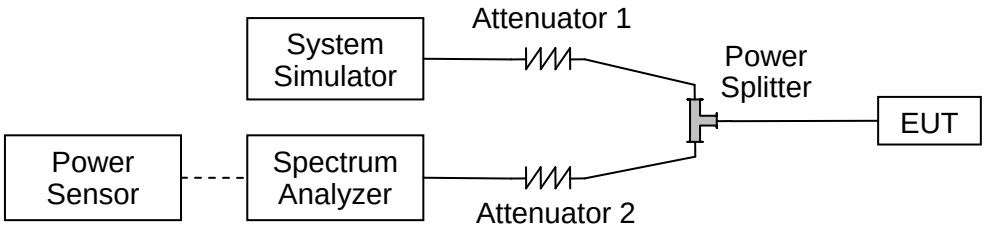
According to FCC section 24.238(a),The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB.

According to FCC section 27.53(g), 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.

According to FCC section 27.53(h), For operations in the 1710–1755MHz 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 log10(P) dB.

According to FCC section 27.53(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 that 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.

2.6.2. Test Description



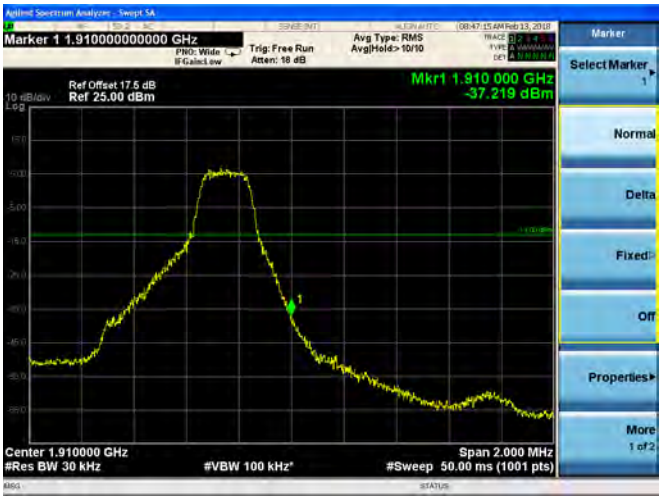
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

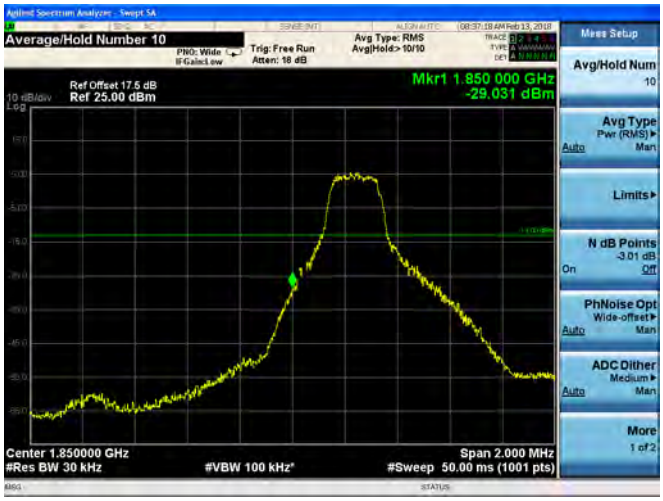
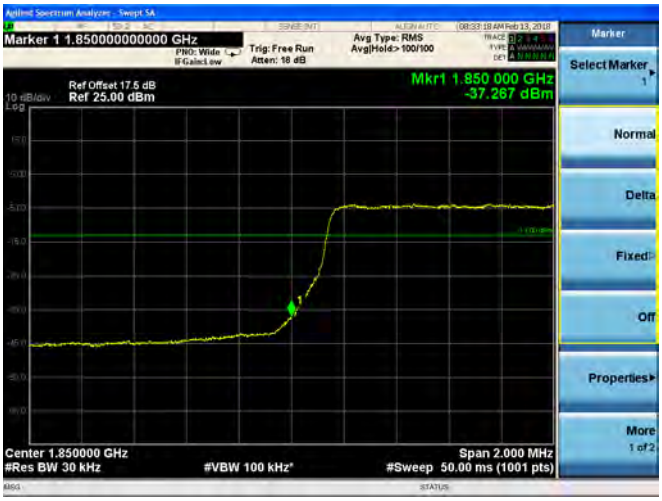
2.6.3. Test procedure

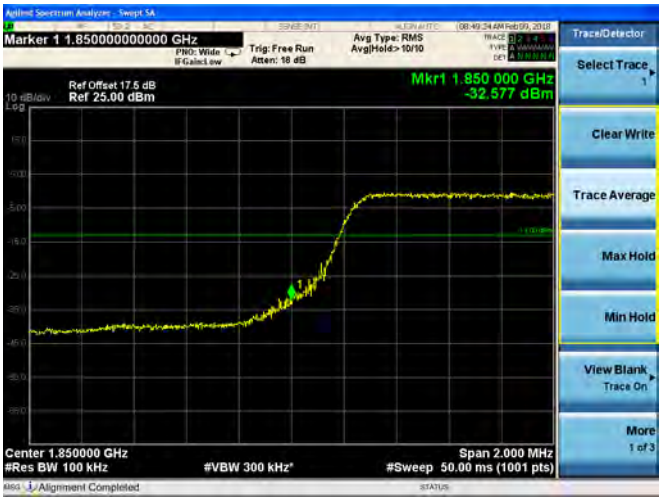
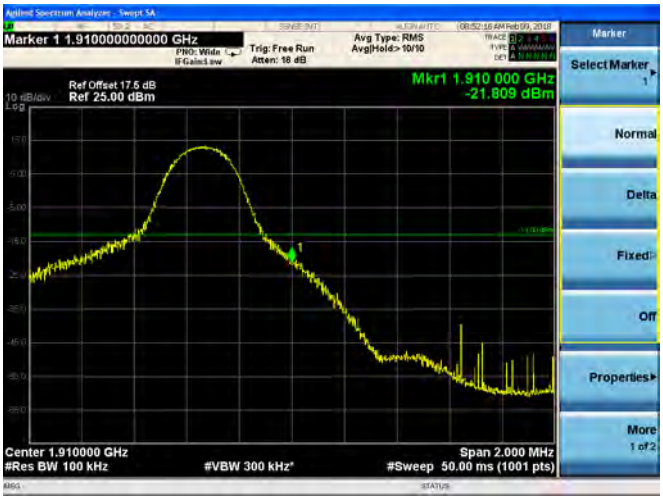
KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.6.4. Test Result

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

LTE Band 2							
Channel Bandwidth: 1.4MHz							
Channel	18607	RB Size 1	RB Offset 0	Channel	18607	RB Size 6	RB Offset 0
Channel Bandwidth: 1.4MHz							
Channel	19192	RB Size 1	RB Offset 5	Channel	19192	RB Size 6	RB Offset 0
							

LTE Band 2							
Channel Bandwidth: 3MHz							
Channel	18165	RB Size 1	RB Offset 0	Channel	18165	RB Size 15	RB Offset 0
							
Channel Bandwidth: 3MHz							
Channel	19184	RB Size 1	RB Offset 14	Channel	19184	RB Size 15	RB Offset 0

LTE Band 2							
Channel Bandwidth: 5MHz							
Channel	18625	RB Size 1	RB Offset 0	Channel	18625	RB Size 25	RB Offset 0
								
Channel Bandwidth: 5MHz							
Channel	19175	RB Size 1	RB Offset 24	Channel	19175	RB Size 25	RB Offset 0
								

LTE Band 2							
Channel Bandwidth: 10MHz							
Channel	18650	RB Size 1	RB Offset 0	Channel	18650	RB Size 50	RB Offset 0
Channel Bandwidth: 10MHz							
Channel	19150	RB Size 1	RB Offset 49	Channel	19150	RB Size 50	RB Offset 0

LTE Band 2							
Channel Bandwidth: 15MHz							
Channel	18675	RB Size 1	RB Offset 0	Channel	18675	RB Size 75	RB Offset 0
Channel Bandwidth: 15MHz							
Channel	19125	RB Size 1	RB Offset 74	Channel	19125	RB Size 75	RB Offset 0

LTE Band 2							
Channel Bandwidth: 20MHz							
Channel	18700	RB Size 1	RB Offset 0	Channel	18700	RB Size 100	RB Offset 0
Channel Bandwidth: 20MHz							
Channel	19100	RB Size 1	RB Offset 99	Channel	19100	RB Size 100	RB Offset 0

LTE Band 4							
Channel Bandwidth: 1.4MHz							
Channel	19957	RB Size 1	RB Offset 0	Channel	20393	RB Size 6	RB Offset 0
Channel Bandwidth: 1.4MHz							
Channel	19957	RB Size 1	RB Offset 5	Channel	20393	RB Size 6	RB Offset 0

LTE Band 4							
Channel Bandwidth: 3MHz							
Channel	19965	RB Size 1	RB Offset 0	Channel	20385	RB Size 15	RB Offset 0
Channel Bandwidth: 3MHz							
Channel	19965	RB Size 1	RB Offset 14	Channel	20385	RB Size 15	RB Offset 0

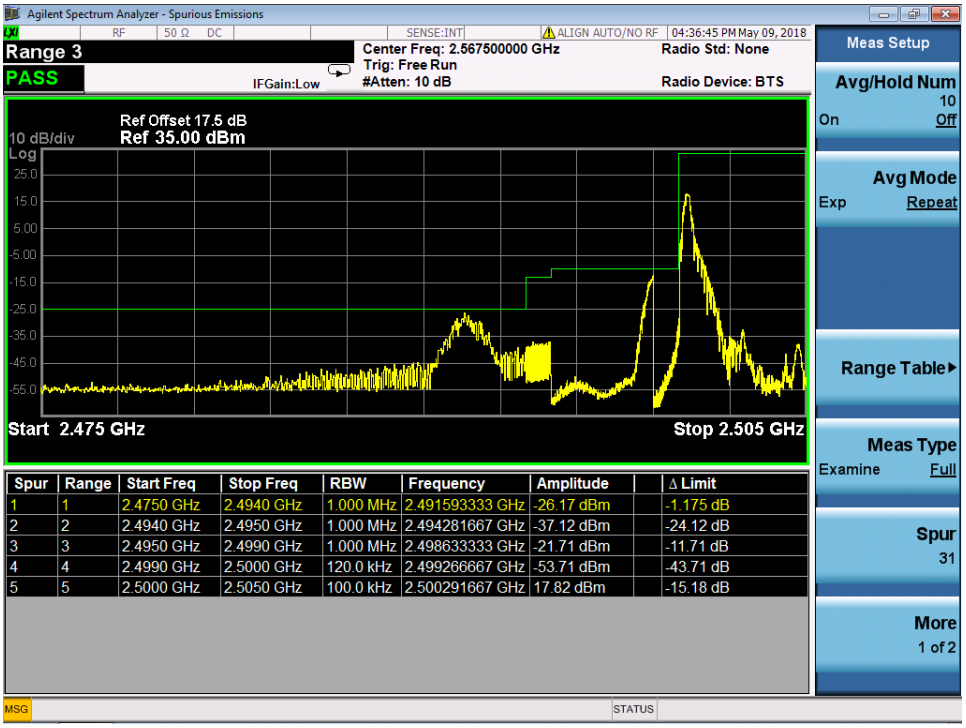
LTE Band 4							
Channel Bandwidth: 5MHz							
Channel	19975	RB Size 1	RB Offset 0	Channel	20375	RB Size 25	RB Offset 0
Channel Bandwidth: 5MHz							
Channel	19975	RB Size 1	RB Offset 24	Channel	20375	RB Size 25	RB Offset 0

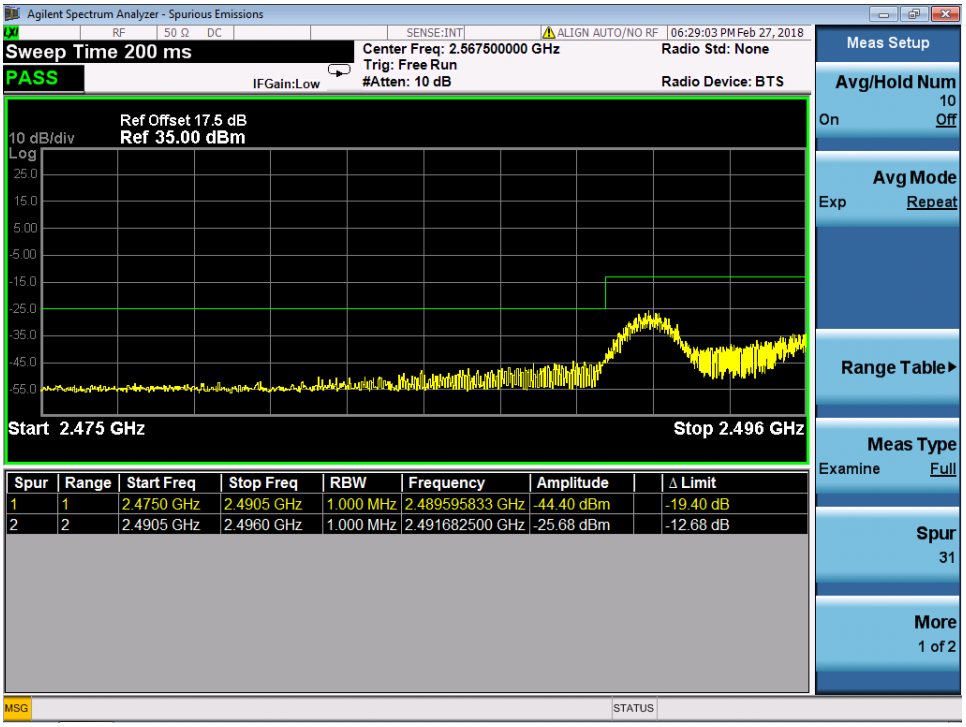
LTE Band 4							
Channel Bandwidth: 10MHz							
Channel	20000	RB Size 1	RB Offset 0	Channel	20350	RB Size 50	RB Offset 0
Channel Bandwidth: 10MHz							
Channel	20000	RB Size 1	RB Offset 49	Channel	20350	RB Size 50	RB Offset 0

LTE Band 4							
Channel Bandwidth: 15MHz							
Channel	20025	RB Size 1	RB Offset 0	Channel	20325	RB Size 75	RB Offset 0
Channel Bandwidth: 15MHz							
Channel	20025	RB Size 1	RB Offset 74	Channel	20325	RB Size 75	RB Offset 0

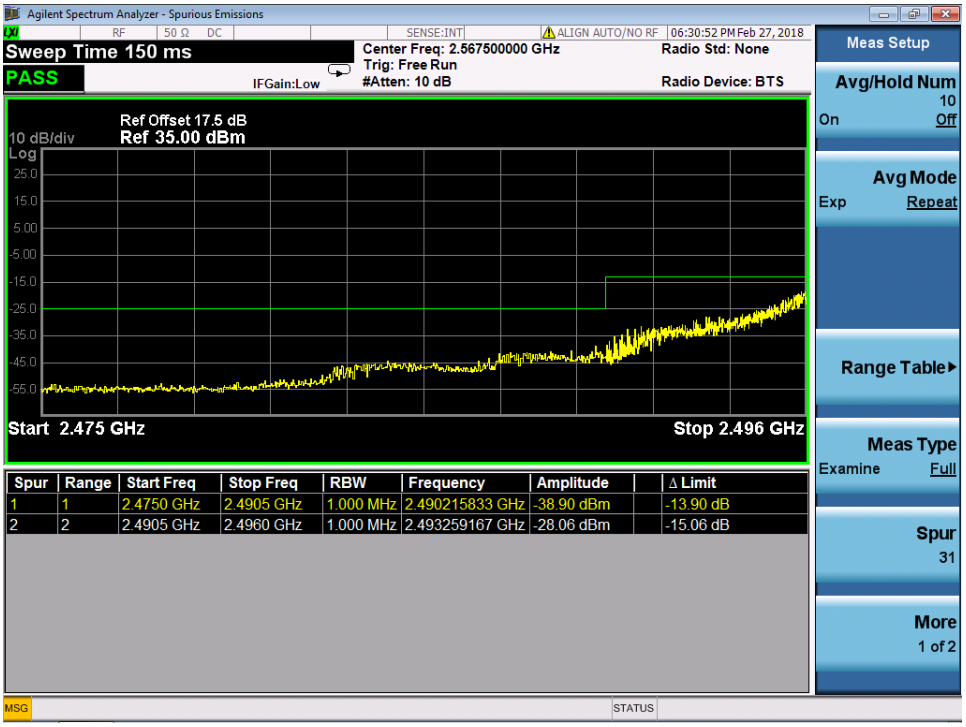
LTE Band 4							
Channel Bandwidth: 20MHz							
Channel	20050	RB Size 1	RB Offset 0	Channel	20300	RB Size 100	RB Offset 0
Channel Bandwidth: 20MHz							
Channel	20050	RB Size 1	RB Offset 99	Channel	20300	RB Size 100	RB Offset 0

LTE Band 7			
Channel Bandwidth: 5MHz			
Channel	20775	RB Size 1	RB Offset 0

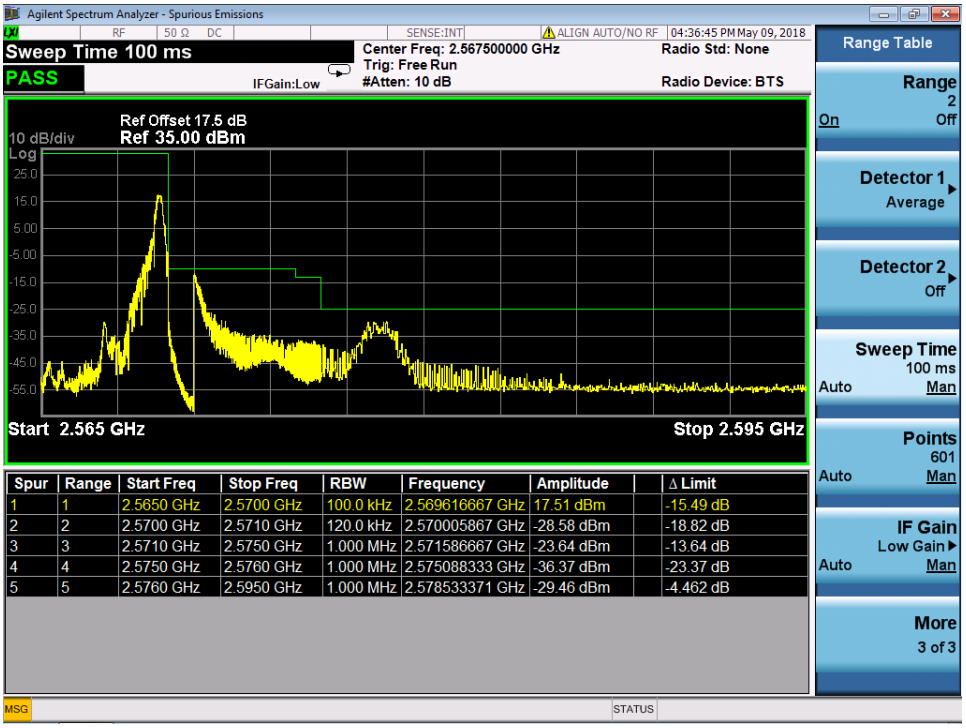




LTE Band 7			
Channel Bandwidth: 5MHz			
Channel	20775	RB Size 25	RB Offset 0



LTE Band 7			
Channel Bandwidth: 5MHz			
Channel	21425	RB Size 1	RB Offset 24

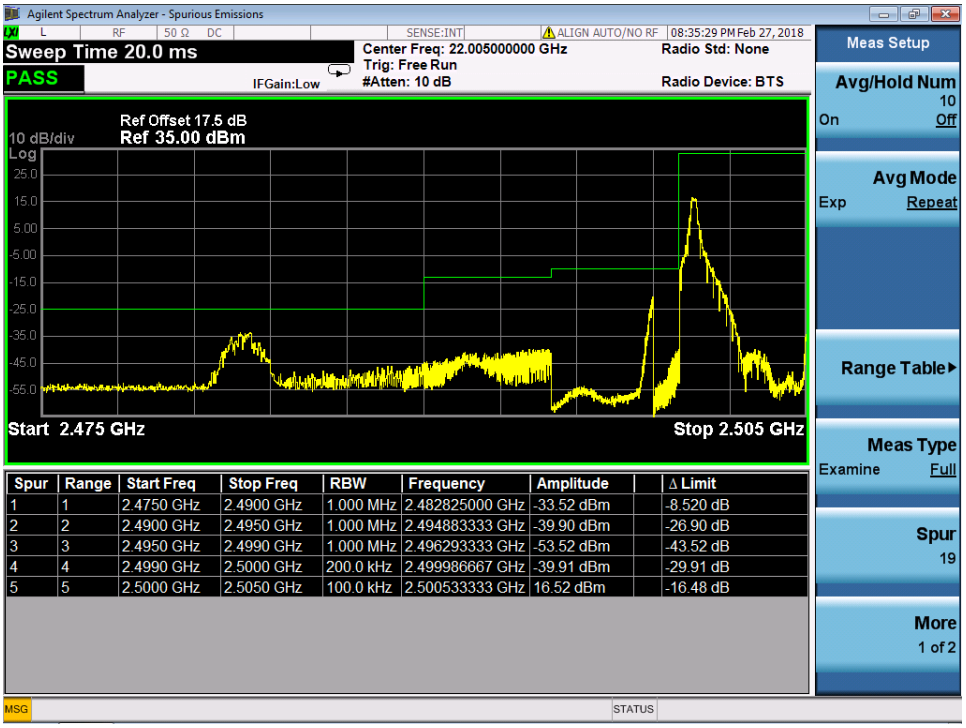


Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.5650 GHz	2.5700 GHz	100.0 kHz	2.569616667 GHz	17.51 dBm	-15.49 dB
2	2	2.5700 GHz	2.5710 GHz	120.0 kHz	2.570005867 GHz	-28.58 dBm	-18.82 dB
3	3	2.5710 GHz	2.5750 GHz	1.000 MHz	2.571586667 GHz	-23.64 dBm	-13.64 dB
4	4	2.5750 GHz	2.5760 GHz	1.000 MHz	2.575088333 GHz	-36.37 dBm	-23.37 dB
5	5	2.5760 GHz	2.5950 GHz	1.000 MHz	2.578533371 GHz	-29.46 dBm	-4.462 dB

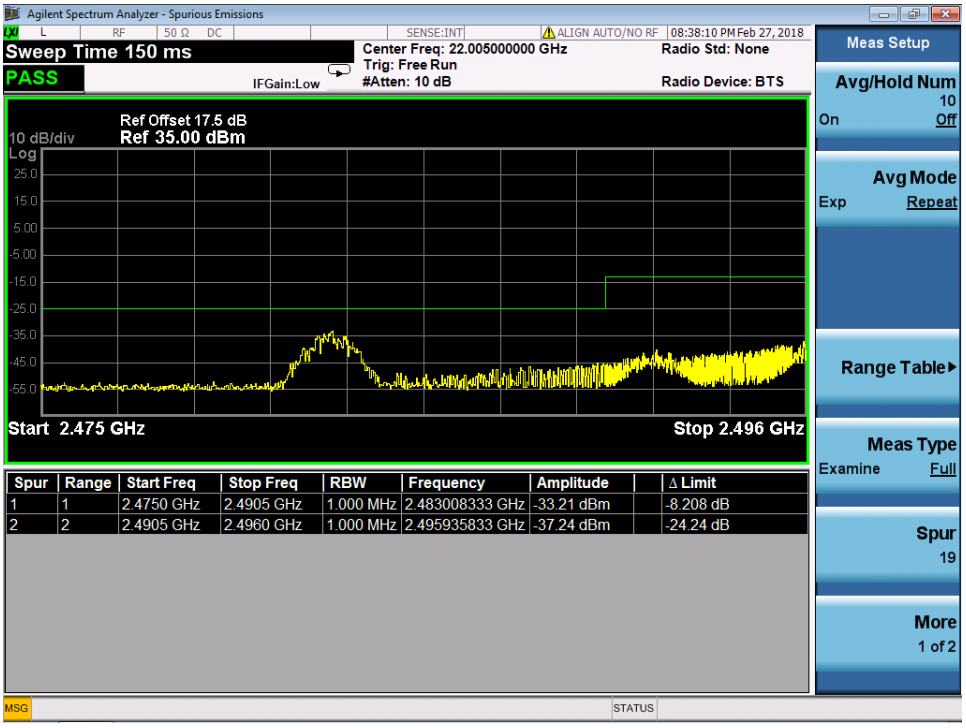
Channel	21425	RB Size 25	RB Offset 0

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.5650 GHz	2.5700 GHz	100.0 kHz	2.567441667 GHz	10.89 dBm	-22.11 dB
2	2	2.5700 GHz	2.5710 GHz	120.0 kHz	2.570005000 GHz	-12.79 dBm	-2.789 dB
3	3	2.5710 GHz	2.5750 GHz	1.000 MHz	2.571246667 GHz	-10.76 dBm	-0.757 dB
4	4	2.5750 GHz	2.5760 GHz	1.000 MHz	2.575071667 GHz	-23.54 dBm	-10.54 dB
5	5	2.5760 GHz	2.5950 GHz	1.000 MHz	2.579483333 GHz	-35.48 dBm	-10.48 dB

LTE Band 7			
Channel Bandwidth: 10MHz			
Channel	20800	RB Size 1	RB Offset 0

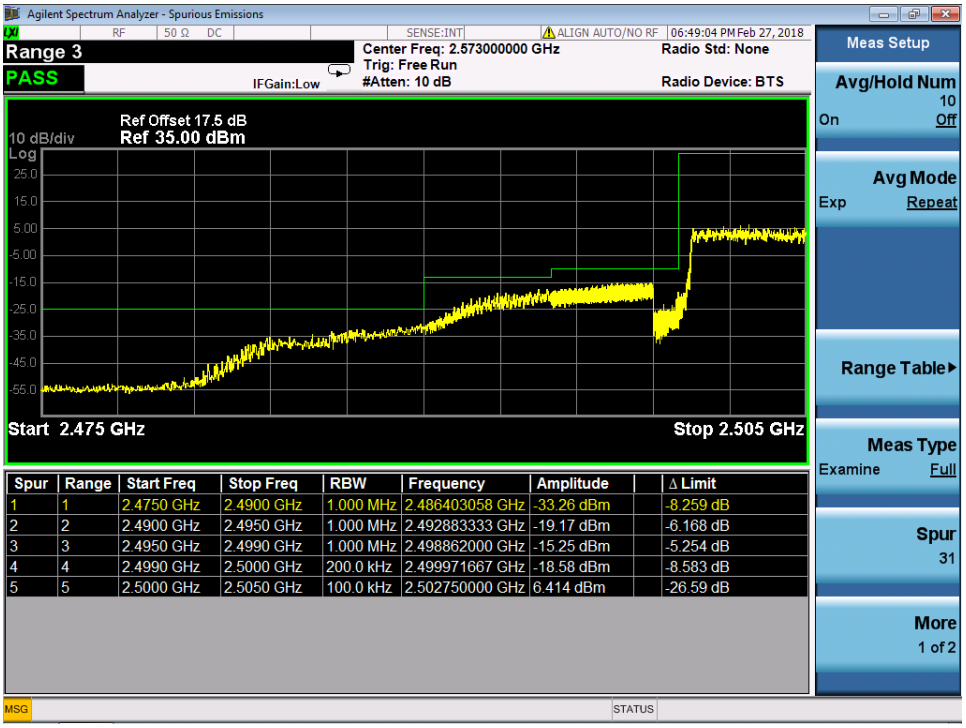


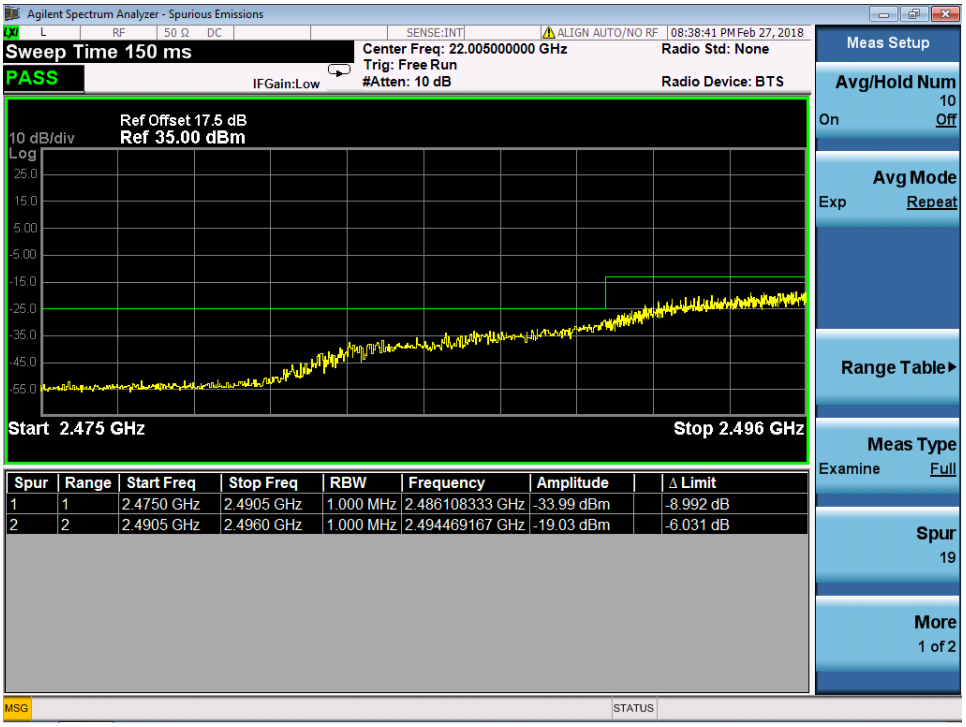
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4900 GHz	1.000 MHz	2.482825000 GHz	-33.52 dBm	-8.520 dB
2	2	2.4900 GHz	2.4950 GHz	1.000 MHz	2.494883333 GHz	-39.90 dBm	-26.90 dB
3	3	2.4950 GHz	2.4990 GHz	1.000 MHz	2.496293333 GHz	-53.52 dBm	-43.52 dB
4	4	2.4990 GHz	2.5000 GHz	200.0 kHz	2.499986667 GHz	-39.91 dBm	-29.91 dB
5	5	2.5000 GHz	2.5050 GHz	100.0 kHz	2.500533333 GHz	16.52 dBm	-16.48 dB



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4905 GHz	1.000 MHz	2.483008333 GHz	-33.21 dBm	-8.208 dB
2	2	2.4905 GHz	2.4960 GHz	1.000 MHz	2.495935833 GHz	-37.24 dBm	-24.24 dB

LTE Band 7			
Channel Bandwidth: 10MHz			
Channel	20800	RB Size 50	RB Offset 0





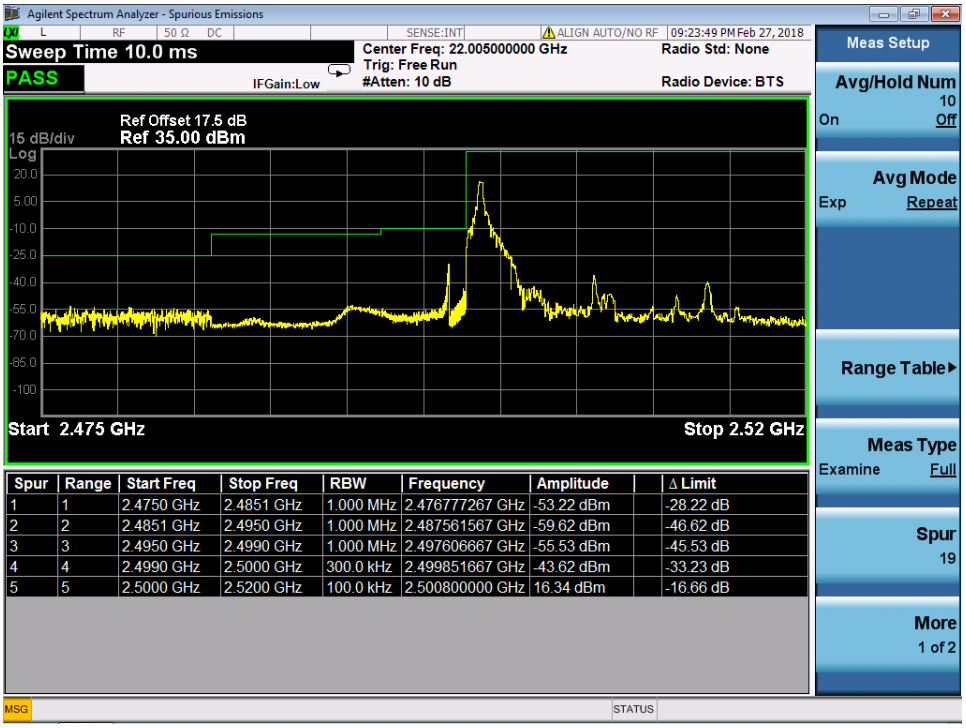
LTE Band 7			
Channel Bandwidth: 10MHz			
Channel	21400	RB Size 1	RB Offset 49

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.5600 GHz	2.5700 GHz	100.0 kHz	2.569366667 GHz	17.76 dBm	-15.24 dB
2	2	2.5700 GHz	2.5710 GHz	200.0 kHz	2.570050000 GHz	-34.11 dBm	-24.11 dB
3	3	2.5710 GHz	2.5750 GHz	1.000 MHz	2.573626667 GHz	-50.60 dBm	-40.60 dB
4	4	2.5750 GHz	2.5800 GHz	1.000 MHz	2.578266667 GHz	-53.68 dBm	-40.68 dB
5	5	2.5800 GHz	2.5950 GHz	1.000 MHz	2.587100000 GHz	-35.55 dBm	-10.55 dB

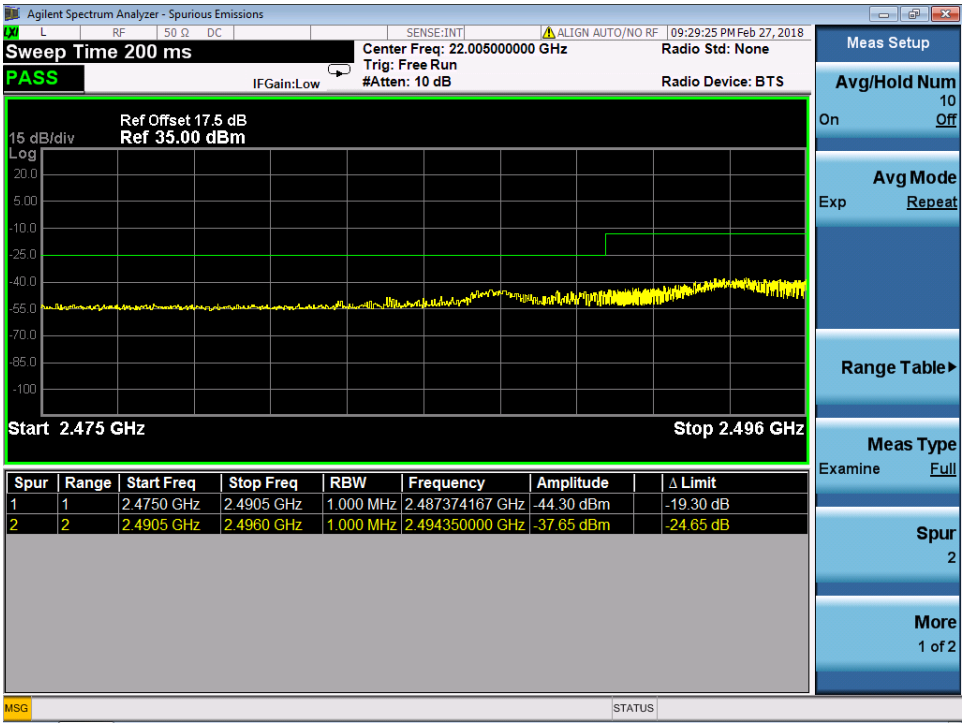
Channel	21400	RB Size 50	RB Offset 0

Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.5600 GHz	2.5700 GHz	100.0 kHz	2.569366667 GHz	17.76 dBm	-15.24 dB
2	2	2.5700 GHz	2.5710 GHz	200.0 kHz	2.570050000 GHz	-34.11 dBm	-24.11 dB
3	3	2.5710 GHz	2.5750 GHz	1.000 MHz	2.573626667 GHz	-50.60 dBm	-40.60 dB
4	4	2.5750 GHz	2.5800 GHz	1.000 MHz	2.578266667 GHz	-53.68 dBm	-40.68 dB
5	5	2.5800 GHz	2.5950 GHz	1.000 MHz	2.587100000 GHz	-35.55 dBm	-10.55 dB

LTE Band 7			
Channel Bandwidth: 15MHz			
Channel	20825	RB Size 1	RB Offset 0

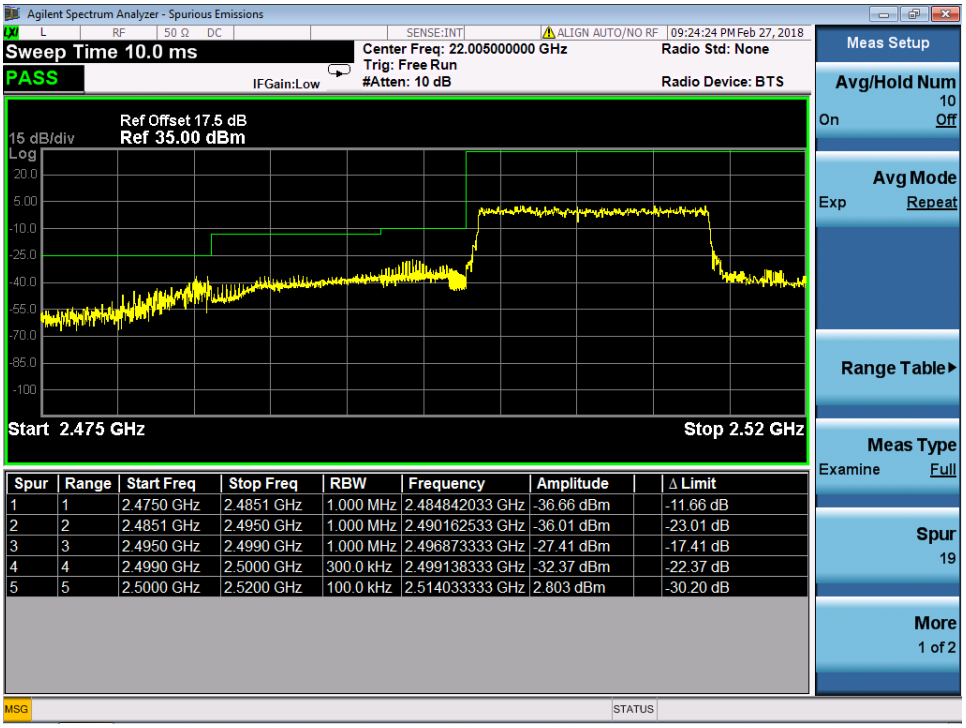


Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4851 GHz	1.000 MHz	2.476777267 GHz	-53.22 dBm	-28.22 dB
2	2	2.4851 GHz	2.4950 GHz	1.000 MHz	2.487561567 GHz	-59.62 dBm	-46.62 dB
3	3	2.4950 GHz	2.4990 GHz	1.000 MHz	2.497606667 GHz	-55.53 dBm	-45.53 dB
4	4	2.4990 GHz	2.5000 GHz	300.0 kHz	2.499851667 GHz	-43.62 dBm	-33.23 dB
5	5	2.5000 GHz	2.5200 GHz	100.0 kHz	2.500800000 GHz	16.34 dBm	-16.66 dB

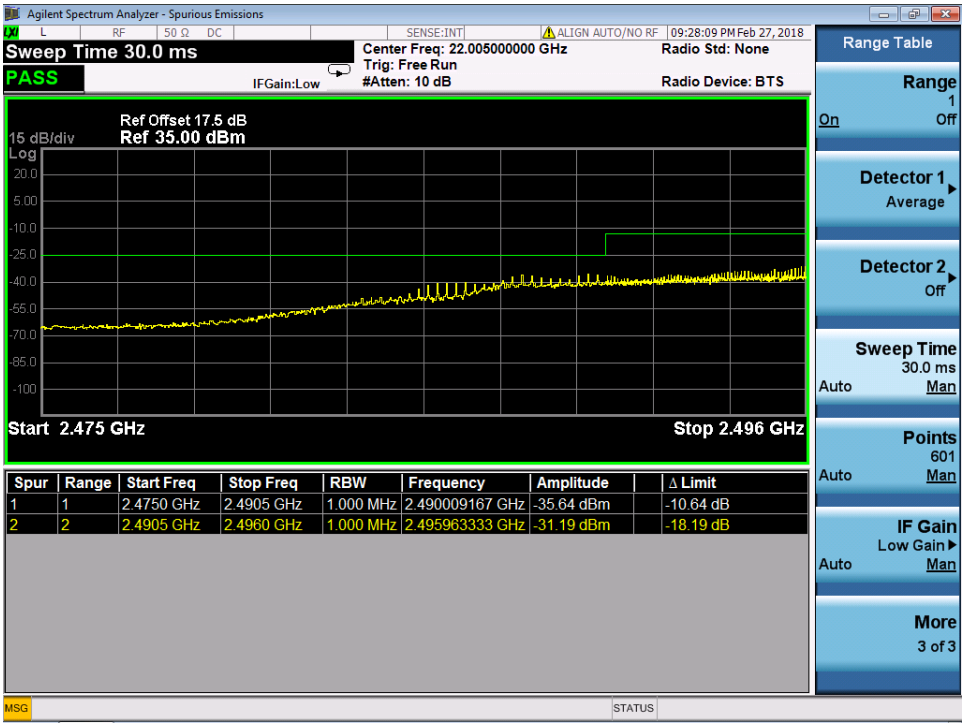


Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4905 GHz	1.000 MHz	2.487374167 GHz	-44.30 dBm	-19.30 dB
2	2	2.4905 GHz	2.4960 GHz	1.000 MHz	2.494350000 GHz	-37.65 dBm	-24.65 dB

LTE Band 7			
Channel Bandwidth: 15MHz			
Channel	20825	RB Size 75	RB Offset 0

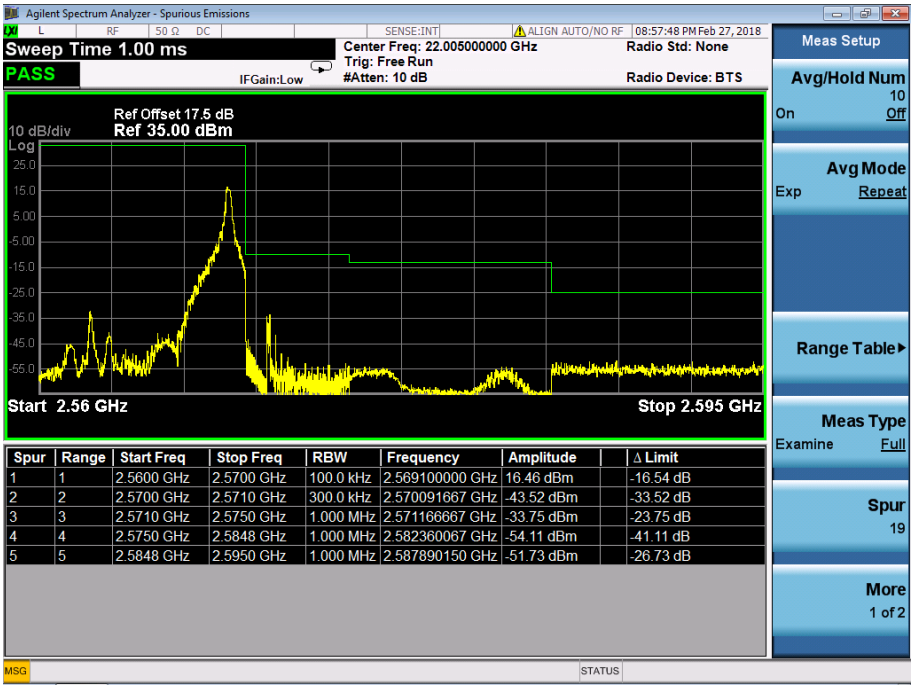


Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4851 GHz	1.000 MHz	2.484842033 GHz	-36.66 dBm	-11.66 dB
2	2	2.4851 GHz	2.4950 GHz	1.000 MHz	2.490162533 GHz	-36.01 dBm	-23.01 dB
3	3	2.4950 GHz	2.4990 GHz	1.000 MHz	2.496873333 GHz	-27.41 dBm	-17.41 dB
4	4	2.4990 GHz	2.5000 GHz	300.0 kHz	2.499138333 GHz	-32.37 dBm	-22.37 dB
5	5	2.5000 GHz	2.5200 GHz	100.0 kHz	2.514033333 GHz	2.803 dBm	-30.20 dB



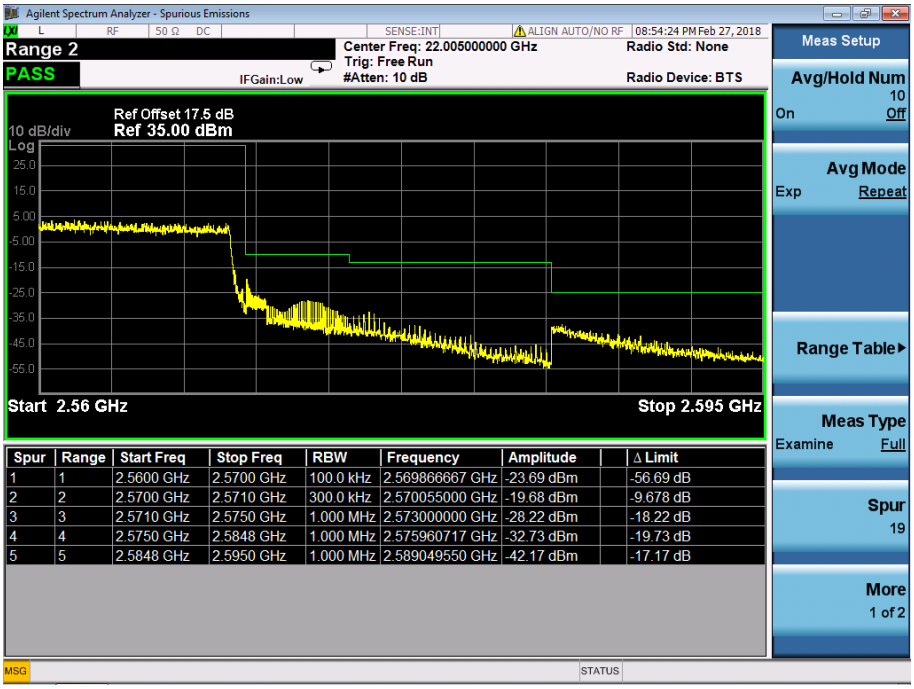
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4905 GHz	1.000 MHz	2.490009167 GHz	-35.64 dBm	-10.64 dB
2	2	2.4905 GHz	2.4960 GHz	1.000 MHz	2.495963333 GHz	-31.19 dBm	-18.19 dB

LTE Band 7			
Channel Bandwidth: 15MHz			
Channel	21375	RB Size 1	RB Offset 74



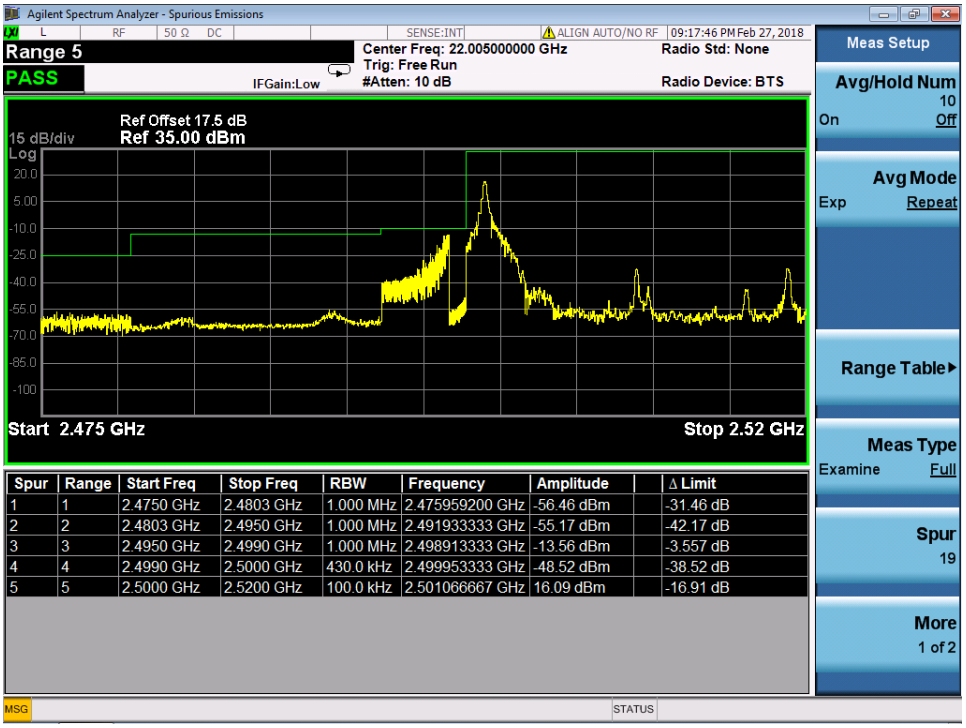
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.5600 GHz	2.5700 GHz	100.0 kHz	2.569100000 GHz	16.46 dBm	-16.54 dB
2	2	2.5700 GHz	2.5710 GHz	300.0 kHz	2.570091667 GHz	-43.52 dBm	-33.52 dB
3	3	2.5710 GHz	2.5750 GHz	1.000 MHz	2.571166667 GHz	-33.75 dBm	-23.75 dB
4	4	2.5750 GHz	2.5848 GHz	1.000 MHz	2.582360067 GHz	-54.11 dBm	-41.11 dB
5	5	2.5848 GHz	2.5950 GHz	1.000 MHz	2.587890150 GHz	-51.73 dBm	-26.73 dB

Channel	21375	RB Size 75	RB Offset 0

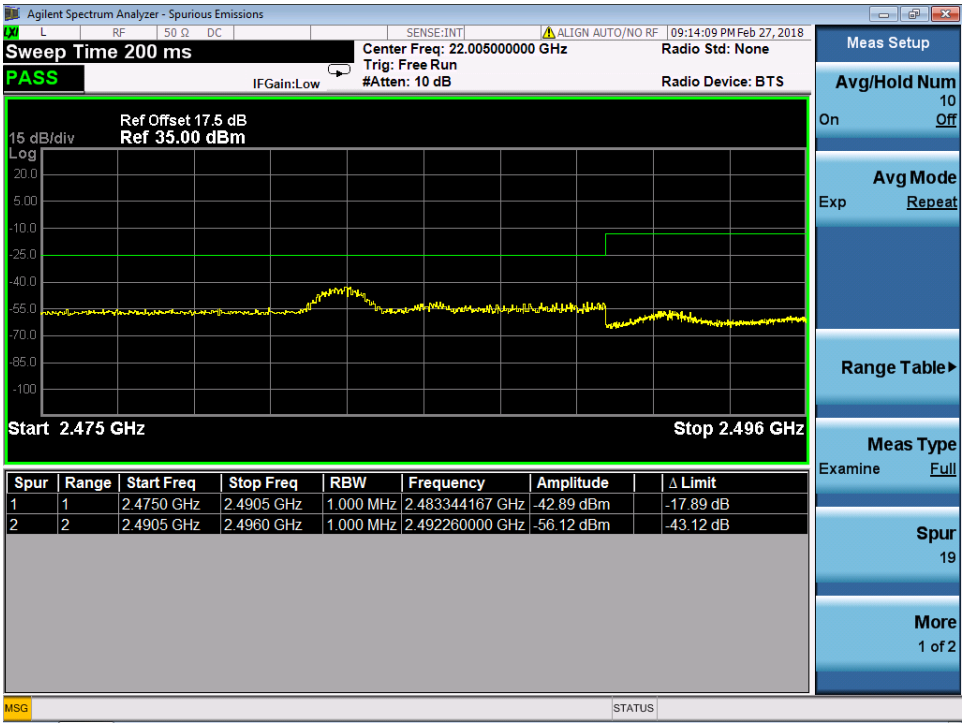


Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.5600 GHz	2.5700 GHz	100.0 kHz	2.569866667 GHz	-23.69 dBm	-56.69 dB
2	2	2.5700 GHz	2.5710 GHz	300.0 kHz	2.570055000 GHz	-19.68 dBm	-9.678 dB
3	3	2.5710 GHz	2.5750 GHz	1.000 MHz	2.573000000 GHz	-28.22 dBm	-18.22 dB
4	4	2.5750 GHz	2.5848 GHz	1.000 MHz	2.575960717 GHz	-32.73 dBm	-19.73 dB
5	5	2.5848 GHz	2.5950 GHz	1.000 MHz	2.589049550 GHz	-42.17 dBm	-17.17 dB

LTE Band 7			
Channel Bandwidth: 20MHz			
Channel	20850	RB Size 1	RB Offset 0

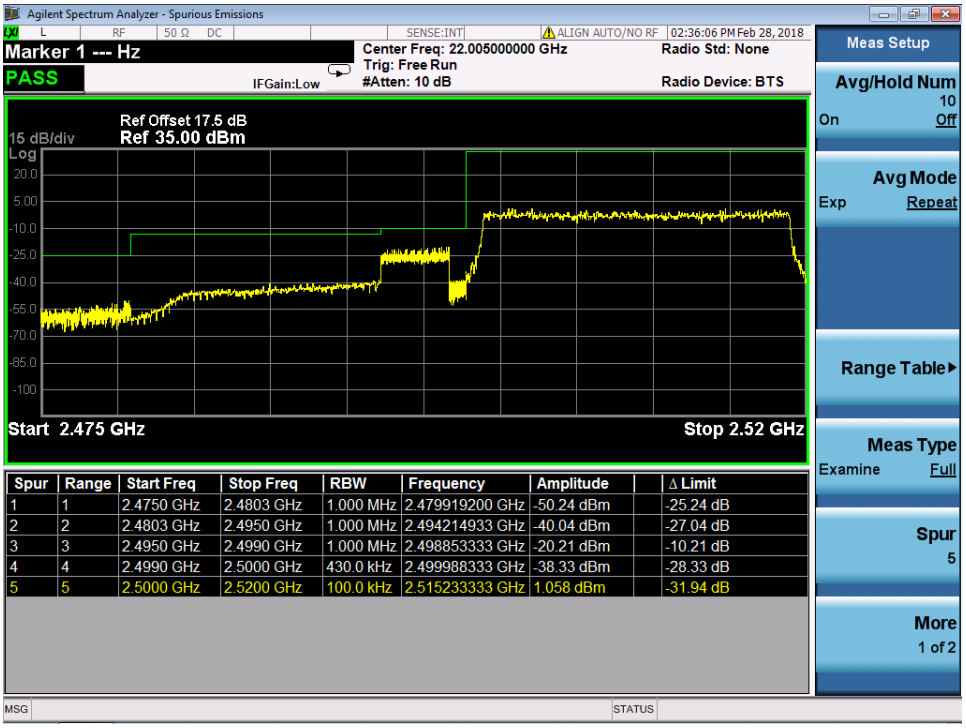


Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4803 GHz	1.000 MHz	2.475959200 GHz	-56.46 dBm	-31.46 dB
2	2	2.4803 GHz	2.4950 GHz	1.000 MHz	2.491933333 GHz	-55.17 dBm	-42.17 dB
3	3	2.4950 GHz	2.4990 GHz	1.000 MHz	2.498913333 GHz	-13.56 dBm	-3.557 dB
4	4	2.4990 GHz	2.5000 GHz	430.0 kHz	2.499953333 GHz	-48.52 dBm	-38.52 dB
5	5	2.5000 GHz	2.5200 GHz	100.0 kHz	2.501066667 GHz	16.09 dBm	-16.91 dB

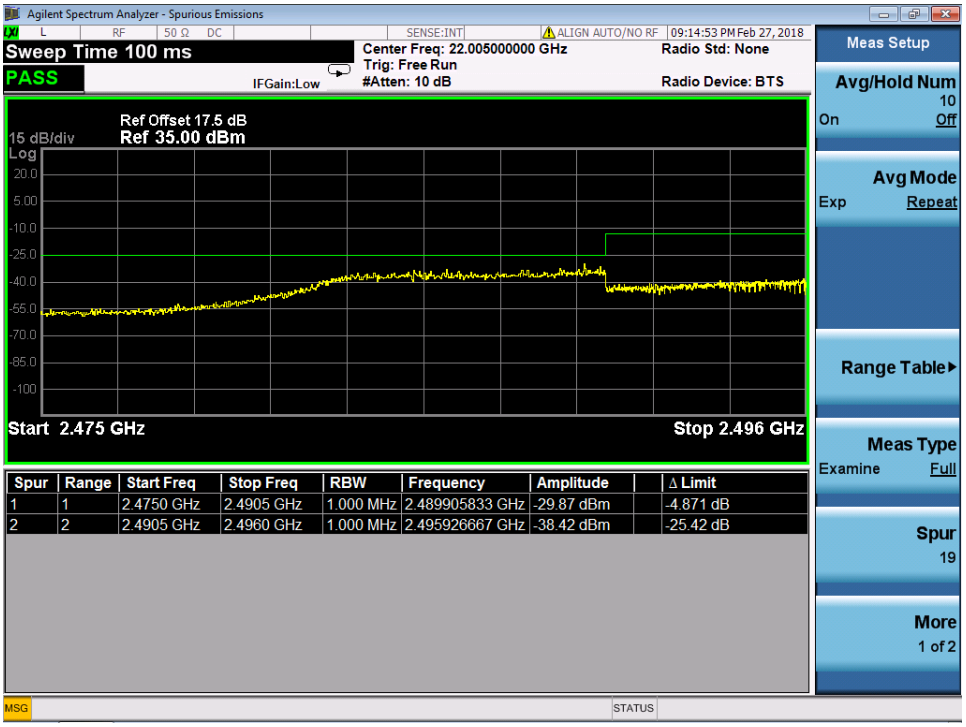


Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4905 GHz	1.000 MHz	2.483344167 GHz	-42.89 dBm	-17.89 dB
2	2	2.4905 GHz	2.4960 GHz	1.000 MHz	2.492260000 GHz	-56.12 dBm	-43.12 dB

LTE Band 7			
Channel Bandwidth: 20MHz			
Channel	20850	RB Size 100	RB Offset 0

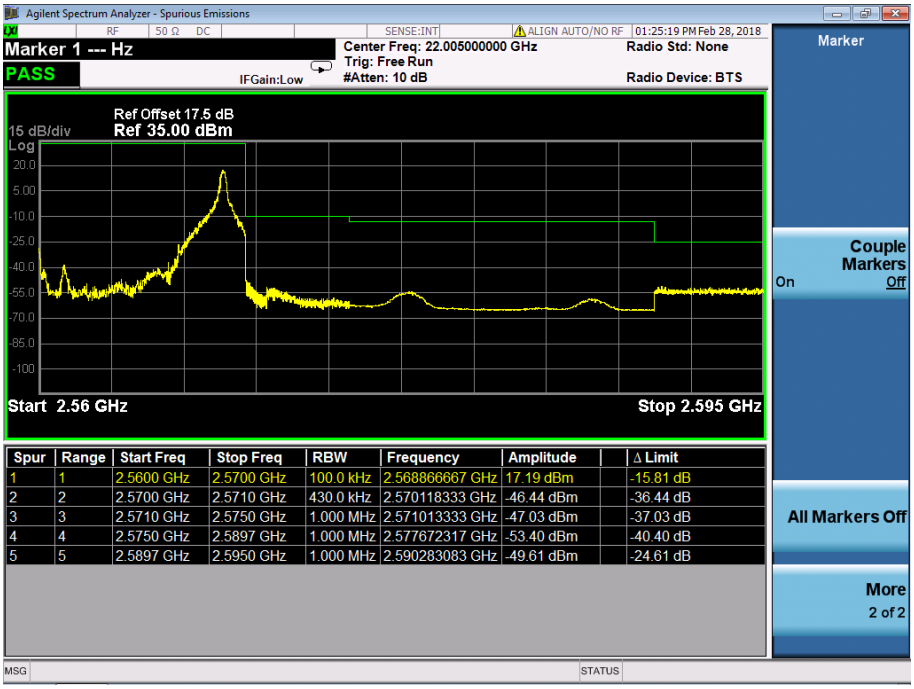


Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4803 GHz	1.000 MHz	2.479919200 GHz	-50.24 dBm	-25.24 dB
2	2	2.4803 GHz	2.4950 GHz	1.000 MHz	2.494214933 GHz	-40.04 dBm	-27.04 dB
3	3	2.4950 GHz	2.4990 GHz	1.000 MHz	2.498853333 GHz	-20.21 dBm	-10.21 dB
4	4	2.4990 GHz	2.5000 GHz	430.0 kHz	2.499988333 GHz	-38.33 dBm	-28.33 dB
5	5	2.5000 GHz	2.5200 GHz	100.0 kHz	2.515233333 GHz	1.058 dBm	-31.94 dB



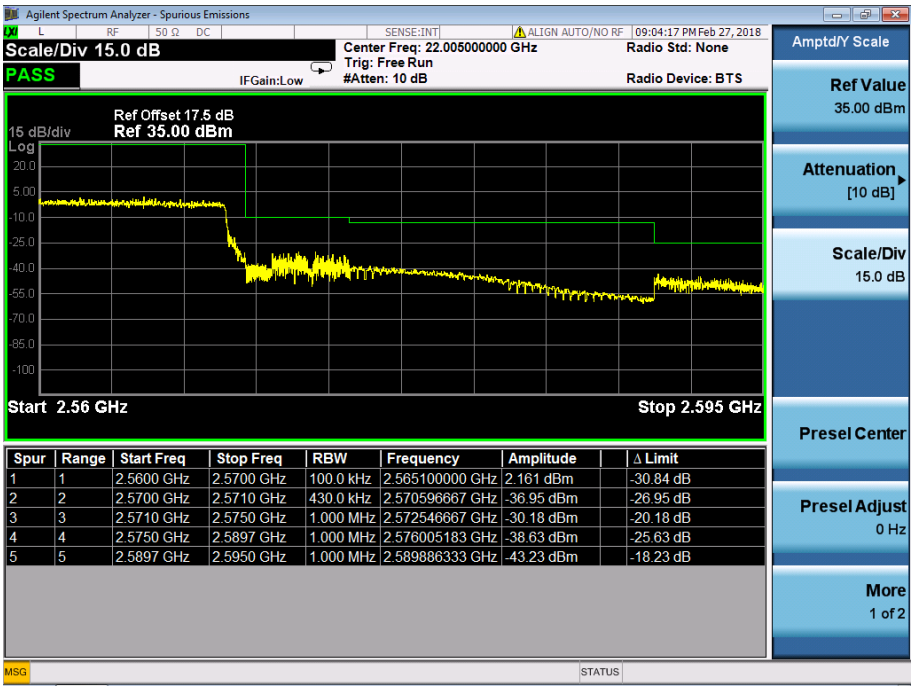
Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.4750 GHz	2.4905 GHz	1.000 MHz	2.489905833 GHz	-29.87 dBm	-4.871 dB
2	2	2.4905 GHz	2.4960 GHz	1.000 MHz	2.495926667 GHz	-38.42 dBm	-25.42 dB

LTE Band 7			
Channel Bandwidth: 20MHz			
Channel	21350	RB Size 1	RB Offset 99



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.5600 GHz	2.5700 GHz	100.0 kHz	2.568866667 GHz	17.19 dBm	-15.81 dB
2	2	2.5700 GHz	2.5710 GHz	430.0 kHz	2.570118333 GHz	-46.44 dBm	-36.44 dB
3	3	2.5710 GHz	2.5750 GHz	1.000 MHz	2.571013333 GHz	-47.03 dBm	-37.03 dB
4	4	2.5750 GHz	2.5897 GHz	1.000 MHz	2.577672317 GHz	-53.40 dBm	-40.40 dB
5	5	2.5897 GHz	2.5950 GHz	1.000 MHz	2.590283083 GHz	-49.61 dBm	-24.61 dB

Channel	21350	RB Size 100	RB Offset 0



Spur	Range	Start Freq	Stop Freq	RBW	Frequency	Amplitude	Δ Limit
1	1	2.5600 GHz	2.5700 GHz	100.0 kHz	2.565100000 GHz	2.161 dBm	-30.84 dB
2	2	2.5700 GHz	2.5710 GHz	430.0 kHz	2.570596667 GHz	-36.95 dBm	-26.95 dB
3	3	2.5710 GHz	2.5750 GHz	1.000 MHz	2.572546667 GHz	-30.18 dBm	-20.18 dB
4	4	2.5750 GHz	2.5897 GHz	1.000 MHz	2.576005183 GHz	-38.63 dBm	-25.63 dB
5	5	2.5897 GHz	2.5950 GHz	1.000 MHz	2.589886333 GHz	-43.23 dBm	-18.23 dB

LTE Band 12							
Channel Bandwidth: 1.4MHz							
Channel	23017	RB Size 1	RB Offset 0	Channel	23017	RB Size 6	RB Offset 0
Channel Bandwidth: 1.4MHz							
Channel	23173	RB Size 1	RB Offset 5	Channel	23173	RB Size 6	RB Offset 0

LTE Band 12							
Channel Bandwidth: 3MHz							
Channel	23025	RB Size 1	RB Offset 0	Channel	23025	RB Size 15	RB Offset 0
Channel Bandwidth: 3MHz							
Channel	23165	RB Size 1	RB Offset 14	Channel	23165	RB Size 15	RB Offset 0

LTE Band 12							
Channel Bandwidth: 5MHz							
Channel	23035	RB Size 1	RB Offset 0	Channel	23035	RB Size 25	RB Offset 0
Channel Bandwidth: 5MHz							
Channel	23155	RB Size 1	RB Offset 24	Channel	23155	RB Size 25	RB Offset 0

LTE Band 12							
Channel Bandwidth: 10MHz							
Channel	23060	RB Size 1	RB Offset 0	Channel	23060	RB Size 50	RB Offset 0
Channel Bandwidth: 10MHz							
Channel	23130	RB Size 1	RB Offset 49	Channel	23130	RB Size 50	RB Offset 0

LTE Band 17							
Channel Bandwidth: 5MHz							
Channel	23755	RB Size 1	RB Offset 0	Channel	23755	RB Size 25	RB Offset 0
Channel Bandwidth: 5MHz							
Channel	23825	RB Size 1	RB Offset 24	Channel	23825	RB Size 25	RB Offset 0

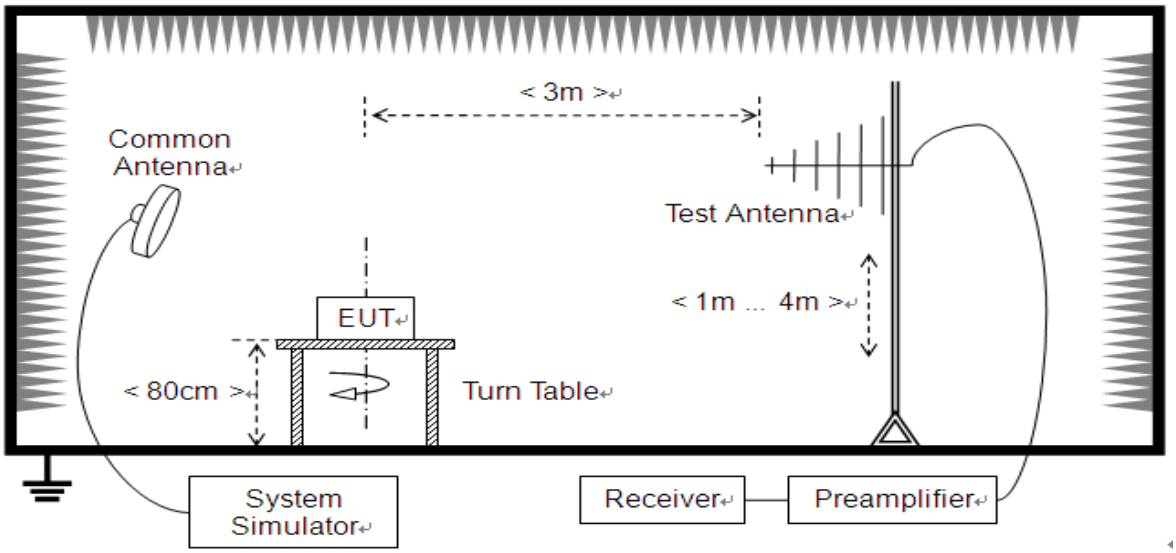
LTE Band 17							
Channel Bandwidth: 10MHz							
Channel	23780	RB Size 1	RB Offset 0	Channel	23780	RB Size 50	RB Offset 0
Channel Bandwidth: 10MHz							
Channel	23800	RB Size 1	RB Offset 49	Channel	23800	RB Size 50	RB Offset 0

2.7. Transmitter Radiated Power (EIRP/ERP)

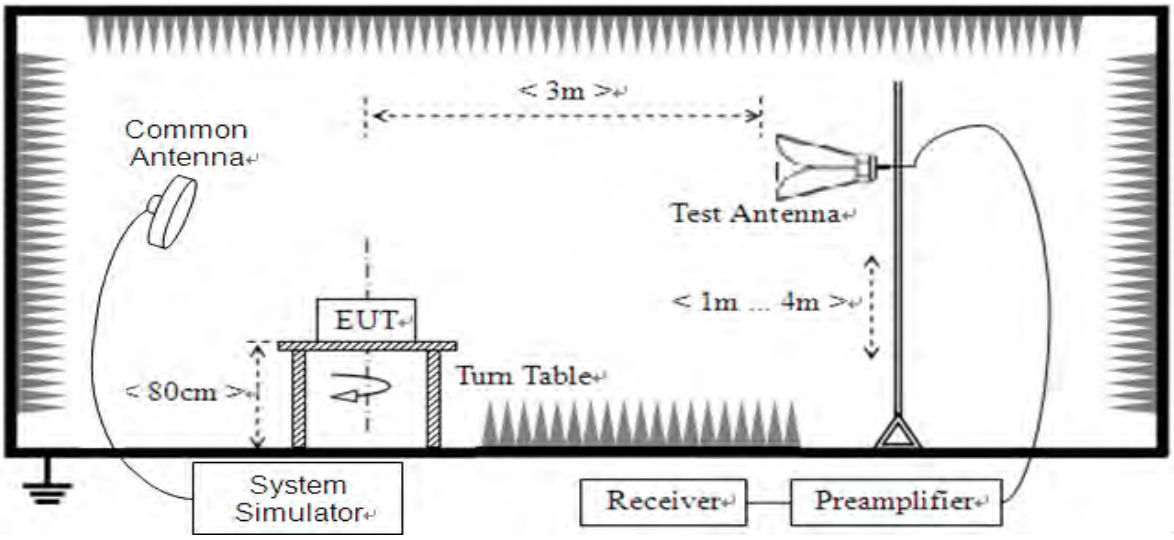
2.7.1. Requirement

According to FCC section 24.232 (c) for LTE Band 2, Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.
According to FCC section 27.50 (d) for LTE Band 4, fixed, mobile and portable (hand-held) stations in the 1710-1755MHz band are limited to 1wat EIRP.
According to FCC section 27.50 (h) for LTE Band 7, Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2.0 watts transmitter output power.
According to FCC section 27.50 (c) for LTE Band 12/17, Portable stations (hand-held devices) operating in the 704-716MHz band are limited to 3watts ERP.

2.7.2. Test Description



(For the test frequency from 30MHz to1GHz)



(For the test frequency above 1GHz)

The EUT 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.

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360°to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

2.7.3. Test procedure

KDB 971168 D01v03 Section 51&5.2 and ANSI/TIA-603-E-2016.

2.7.4. 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:

$A_{SUBST} = P_{SUBST_TX} - P_{SUBST_RX} - L_{SUBST_CABLES} + G_{SUBST_TX_ANT}$

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

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

P_{SUBST_TX} is signal generator level,

P_{SUBST_RX} is receiver level,

L_{SUBST_CABLES} is cable losses including TX cable,

$G_{SUBST_TX_ANT}$ is substitution antenna gain.

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

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

Note: Both horizontal and vertical polarizations of the test antenna are evaluated respectively, only the worst data (horizontal) were recorded in this report.