

2.6 BAND EDGE

2.6.1 Specification Reference

FCC 47 CFR Part 2, Clause 2.1051
FCC 47 CFR Part 22, Clause 22.917(a)
FCC 47 CFR Part 24, Clause 24.238(a)
RSS-132, Clause 5.5
RSS-133, Clause 6.5

2.6.2 Standard Applicable

In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p(\text{watts})$.

2.6.3 Equipment Under Test and Modification State

Serial No: 370920000139 (NU) and 371929000156 (CU) / Test Configuration A and B

2.6.4 Date of Test/Initial of test personnel who performed the test

August 19 and October 15, 2019/XYZ

2.6.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.6.6 Environmental Conditions

Test performed at TÜV SÜD America Inc. Rancho Bernardo facility.

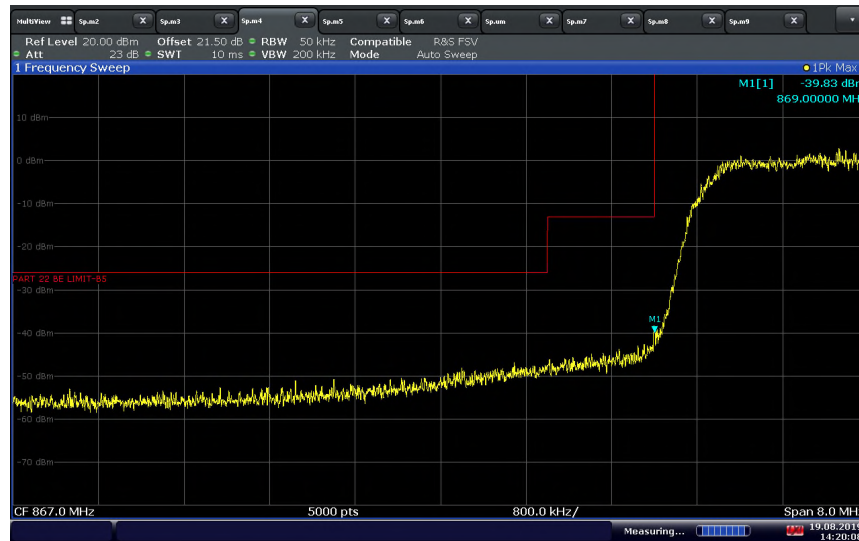
Ambient Temperature	24.5 - 26.7°C
Relative Humidity	45.0 - 49.6%
ATM Pressure	98.9 - 99.0kPa

2.6.7 Additional Observations

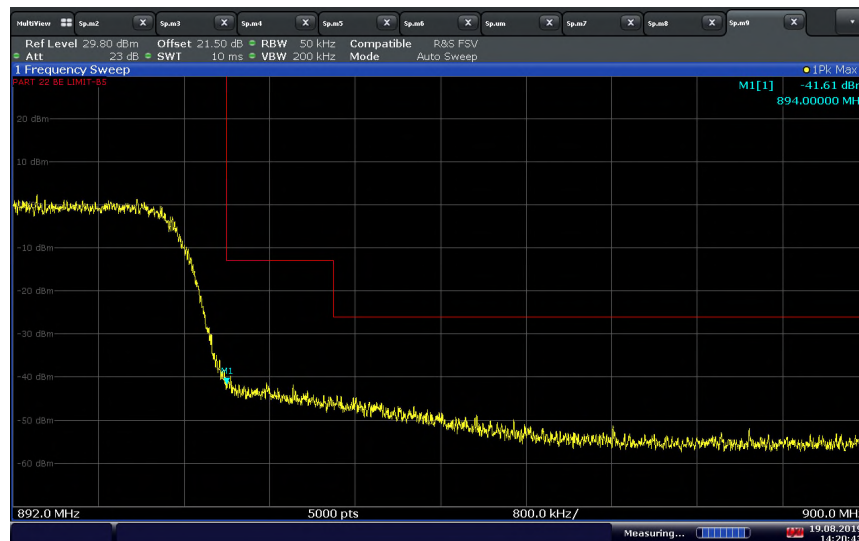
- This is a conducted test.
- Test guidance is per Section 6 of KDB971168 (D01 Power Meas License Digital Systems v02r02).
- The path loss was measured and entered as a level offset.
- The limit is set to -13dBm in the 1 MHz bands immediately outside to the frequency block.
- For WCDMA/LTE Band 5, RBW was set 1% of the Emission Bandwidth or 100 kHz, and for emissions more than 1.0 MHz outside the equipment's operating frequency block, the limit is set to:
 $-13 + 10\lg(\text{RBW}_{\text{used}}/100\text{kHz})$ dBm.
- For LTE Band 25, RBW was set 1% of the Emission Bandwidth, and for emissions more than 1.0 MHz outside the equipment's operating frequency block, the limit is set to:
 $-13 + 10\lg(\text{RBW}_{\text{used}}/1\text{ MHz})$ dBm.

2.6.8 Test Results

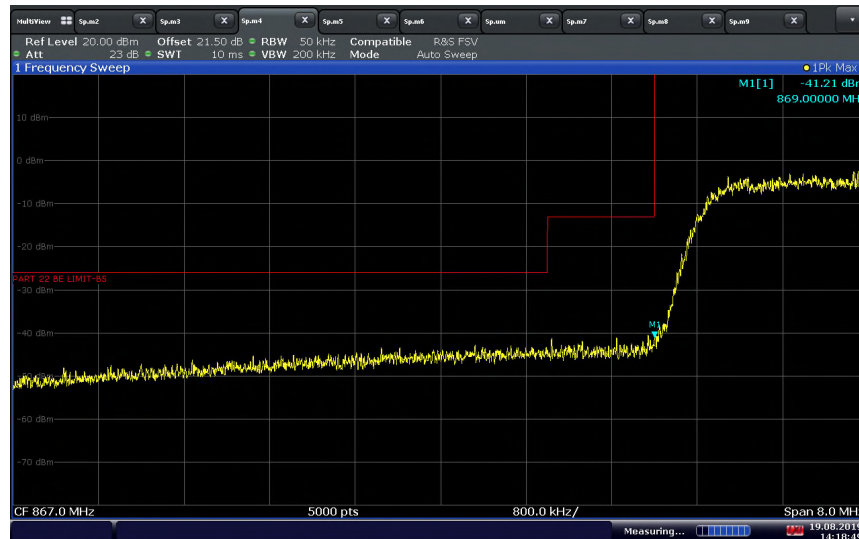
WCDMA Band 5 Downlink_5MHz Bandwidth_Low Channel Band Edge



WCDMA Band 5 Downlink_5MHz Bandwidth_High Channel Band Edge

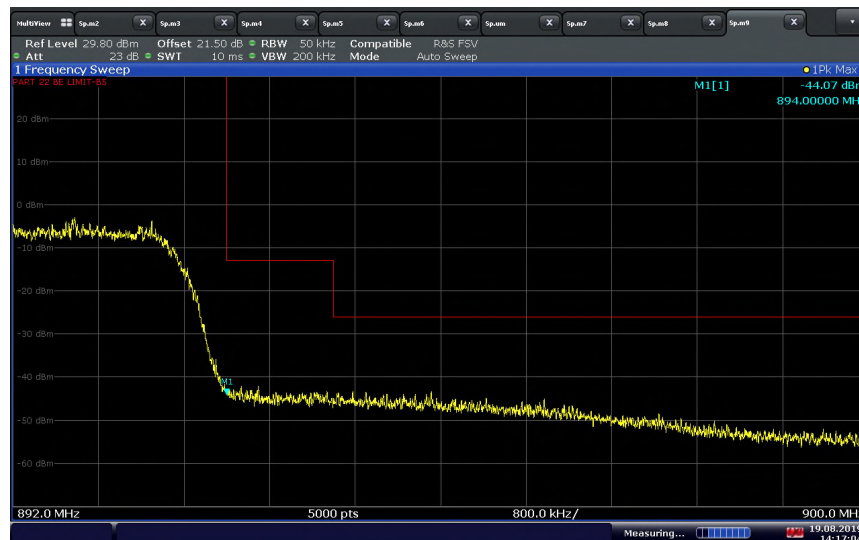


WCDMA Band 5 Downlink_15MHz Bandwidth_Low Channel Band Edge



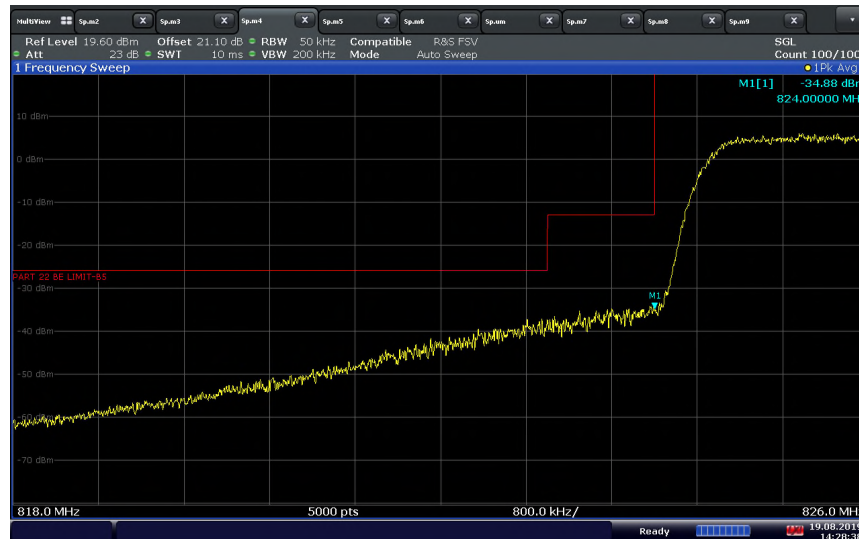
14:18:50 19.08.2019

WCDMA Band 5 Downlink_15MHz Bandwidth_High Channel Band Edge

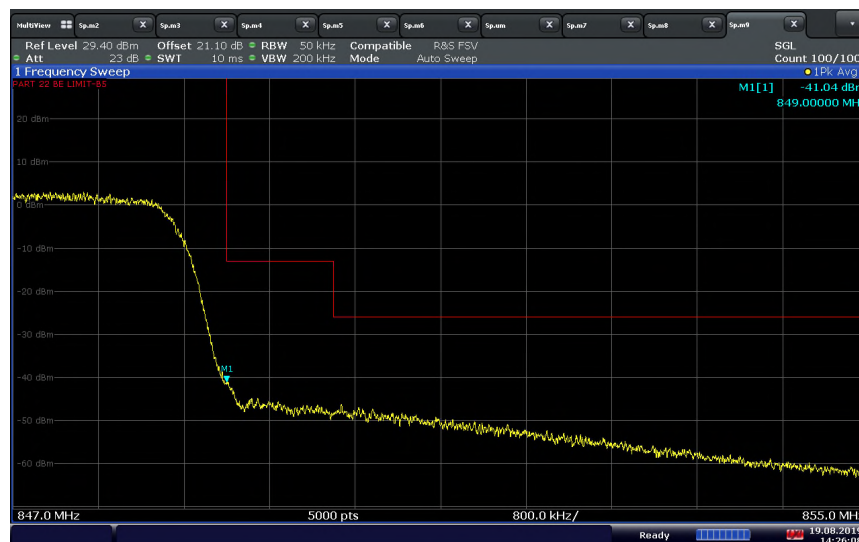


14:17:04 19.08.2019

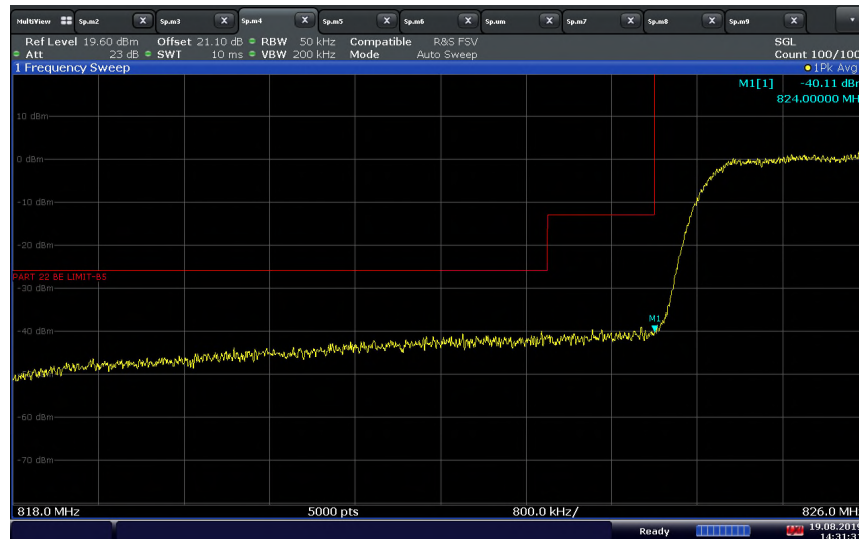
WCDMA Band 5 Uplink_5MHz Bandwidth_Low Channel Band Edge



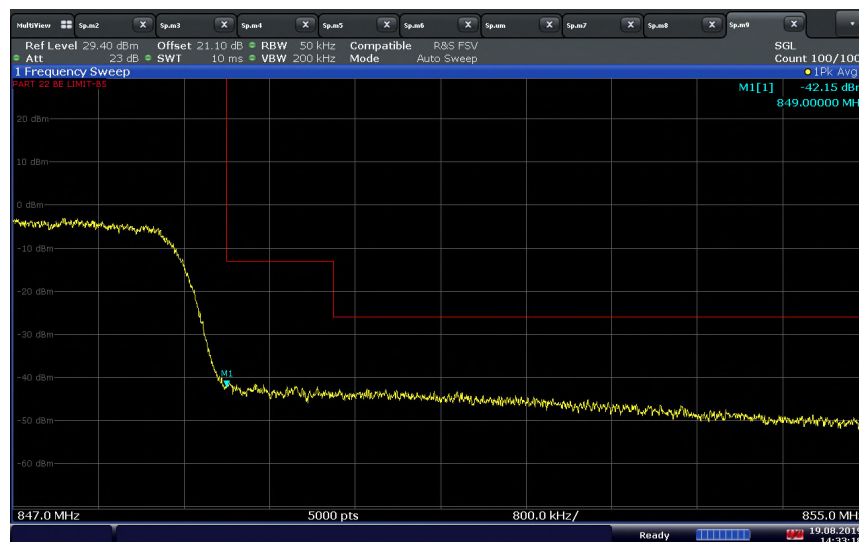
WCDMA Band 5 Uplink_5MHz Bandwidth_High Channel Band Edge



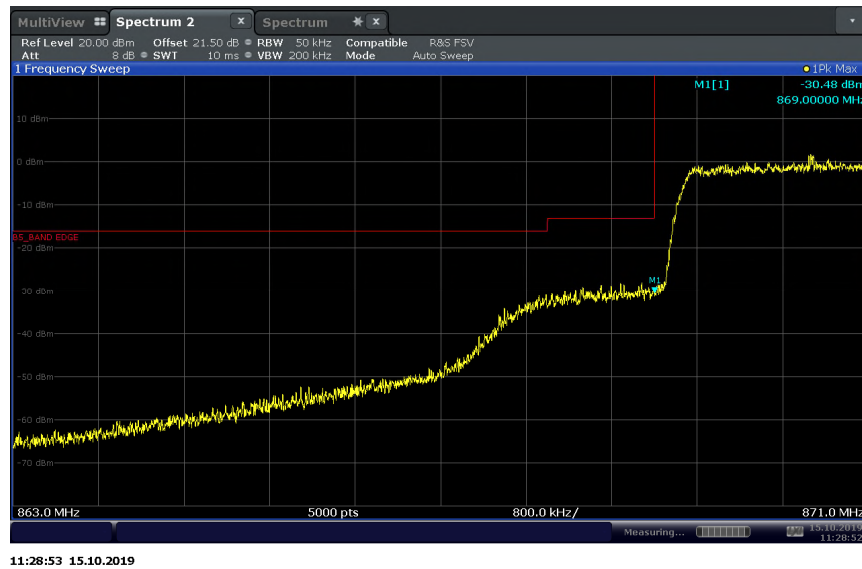
WCDMA Band 5 Uplink_15MHz Bandwidth_Low Channel Band Edge



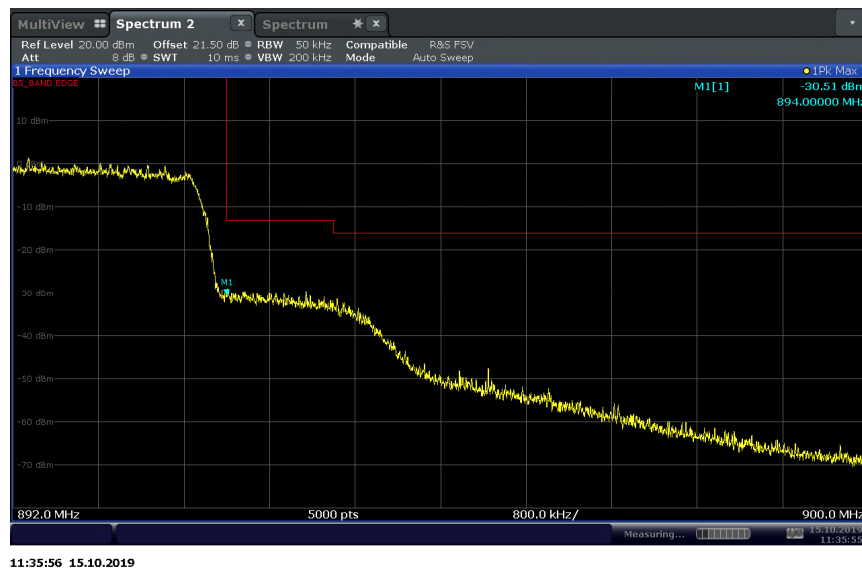
WCDMA Band 5 Uplink_15MHz Bandwidth_High Channel Band Edge



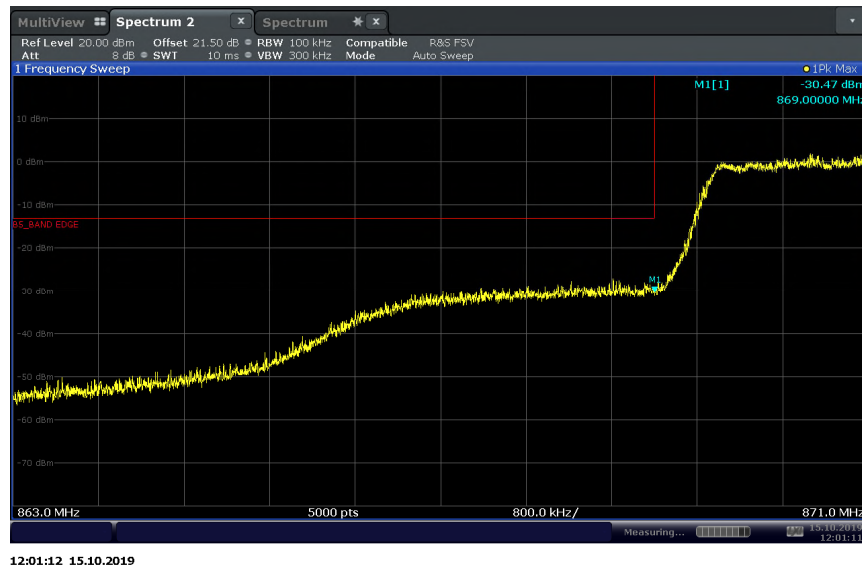
LTE Band 5 Downlink_5MHz Bandwidth_Low Channel Band Edge



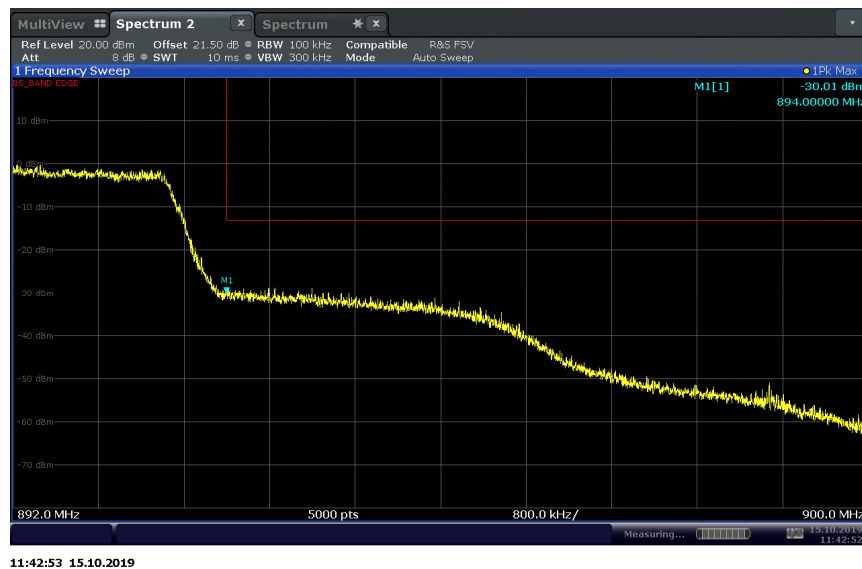
LTE Band 5 Downlink_5MHz Bandwidth_High Channel Band Edge



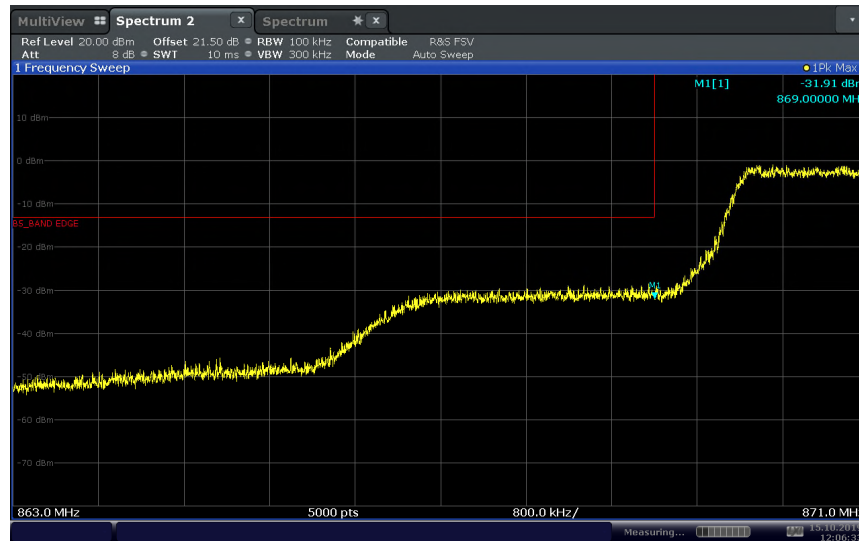
LTE Band 5 Downlink_10MHz Bandwidth_Low Channel Band Edge



LTE Band 5 Downlink_10MHz Bandwidth_High Channel Band Edge

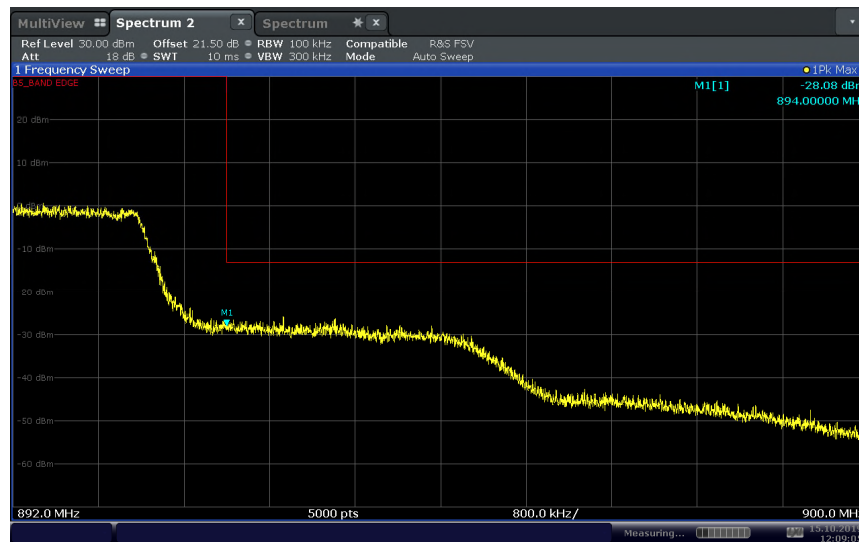


LTE Band 5 Downlink_15MHz Bandwidth_Low Channel Band Edge



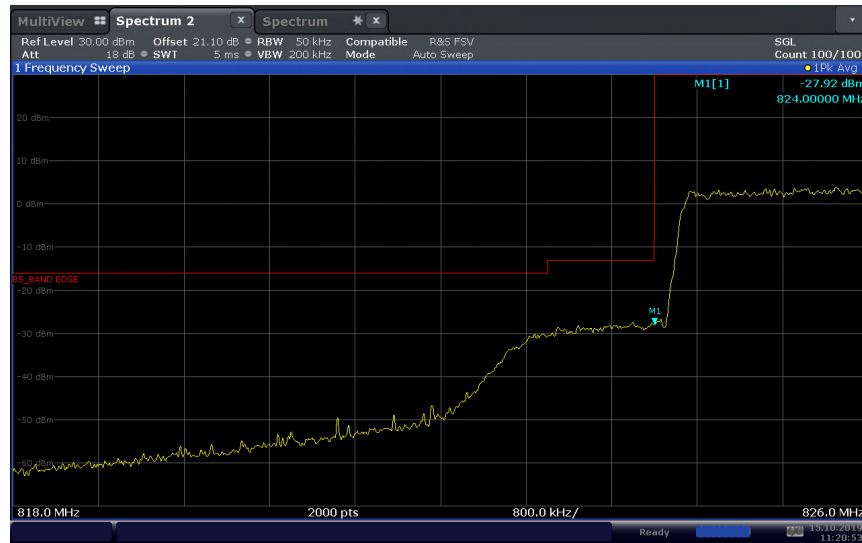
12:06:34 15.10.2019

LTE Band 5 Downlink_15MHz Bandwidth_High Channel Band Edge



12:09:05 15.10.2019

LTE Band 5 Uplink_5MHz Bandwidth_Low Channel Band Edge



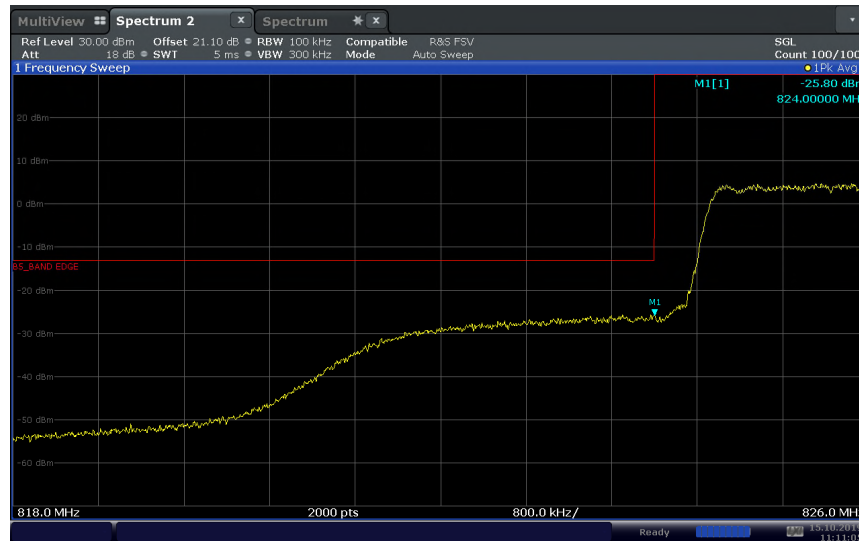
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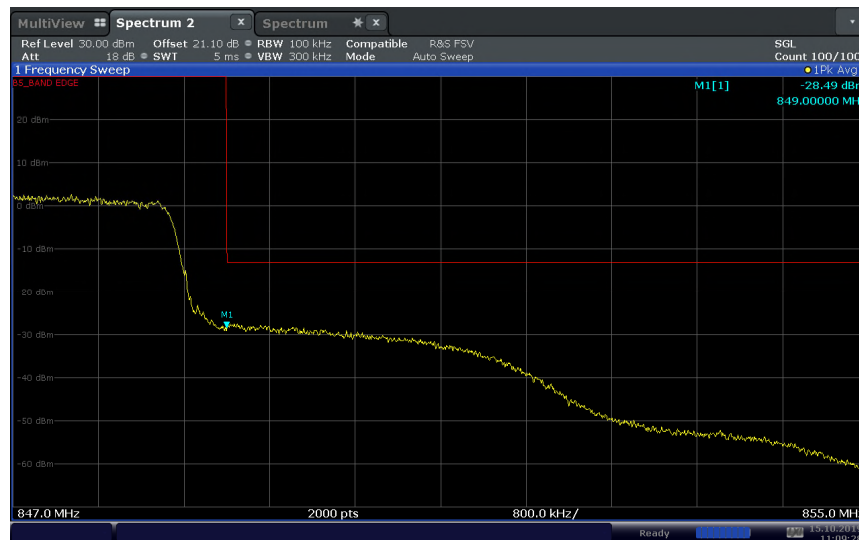
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LTE Band 5 Uplink_10MHz Bandwidth_Low Channel Band Edge



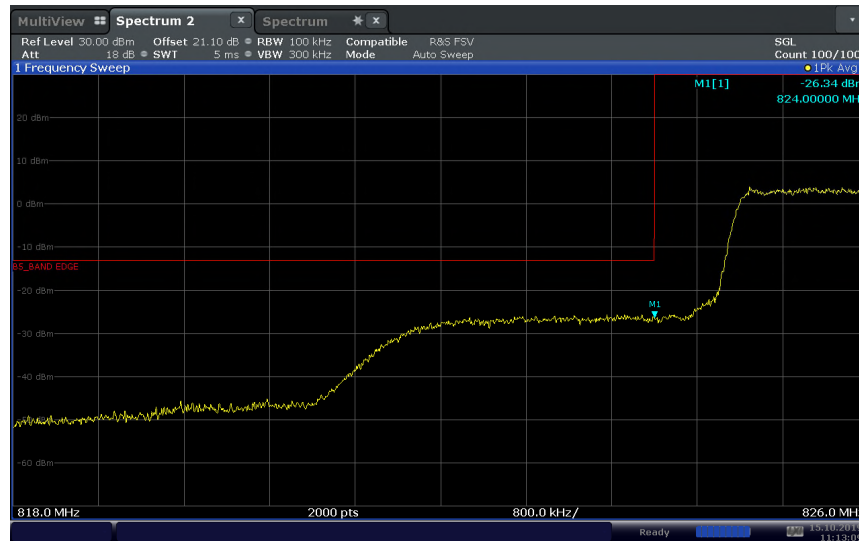
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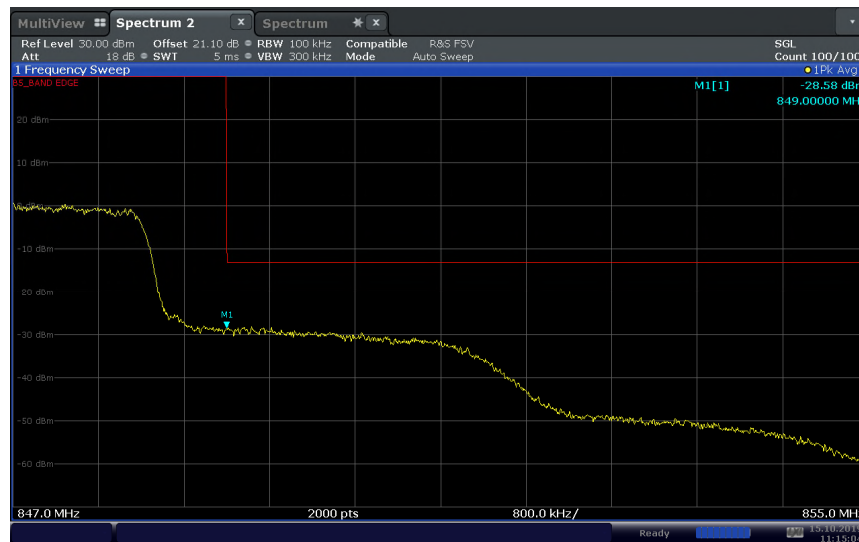
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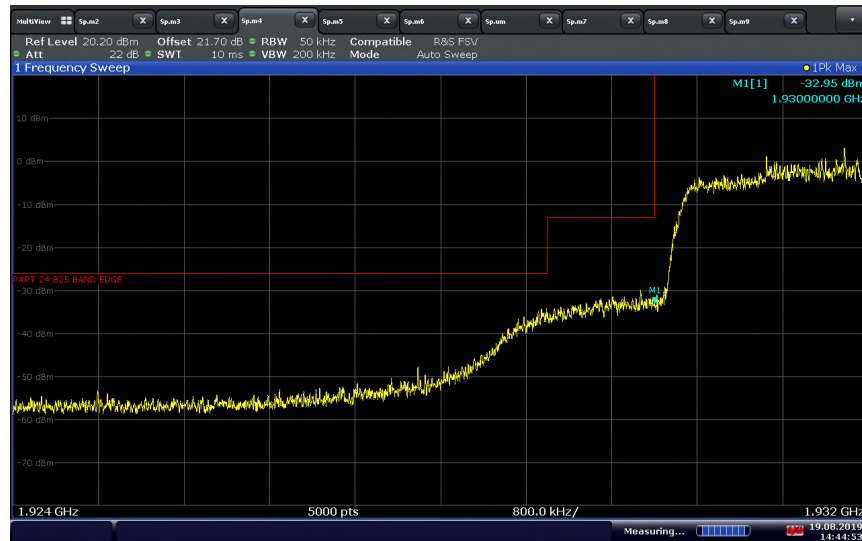
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LTE Band 5 Uplink_15MHz Bandwidth_High Channel Band Edge



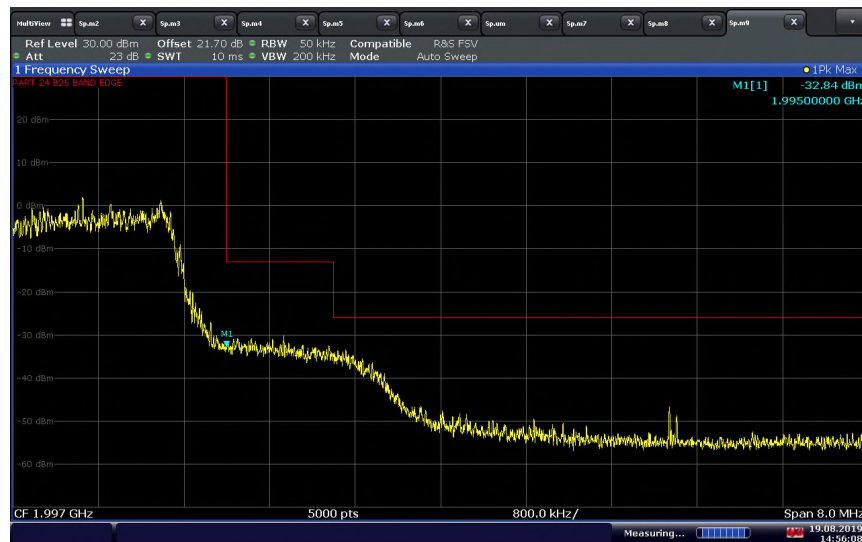
11:15:04 15.10.2019

LTE Band 25 Downlink_5MHz Bandwidth_Low Channel Band Edge



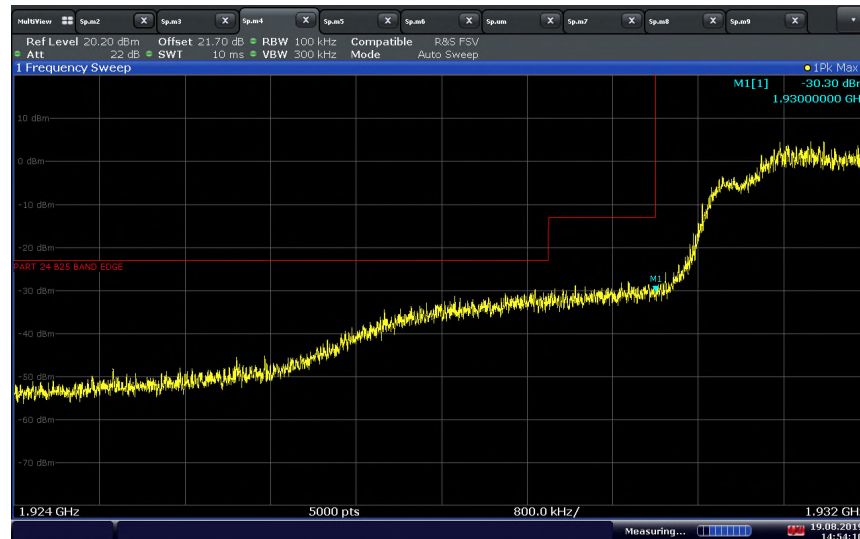
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LTE Band 25 Downlink_5MHz Bandwidth_High Channel Band Edge



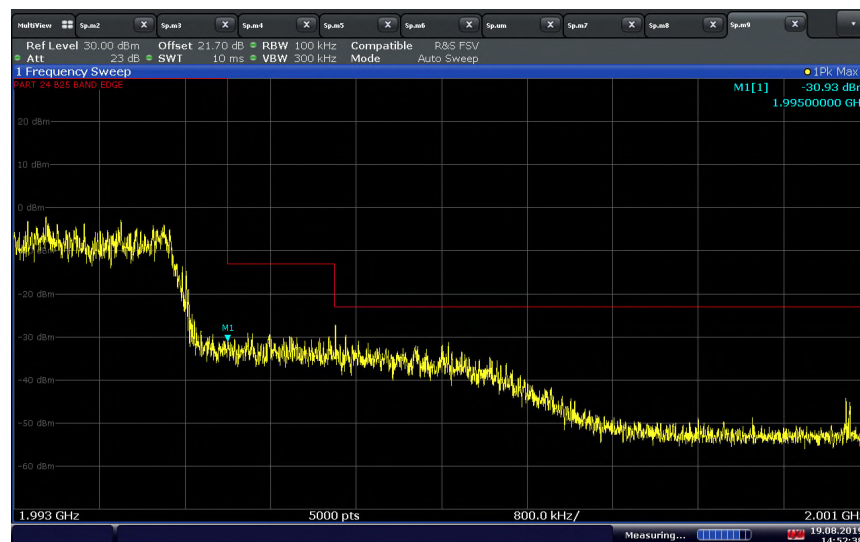
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LTE Band 25 Downlink_10MHz Bandwidth_Low Channel Band Edge



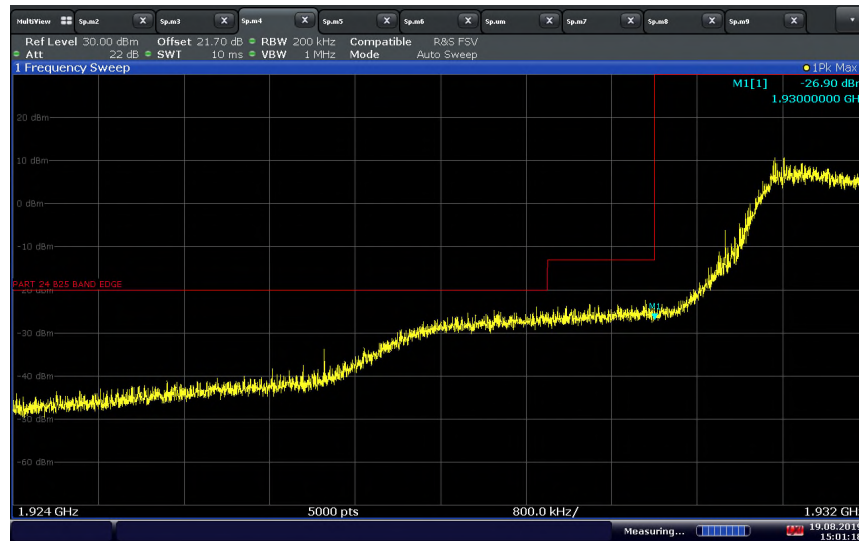
14:54:11 19.08.2019

LTE Band 25 Downlink_10MHz Bandwidth_High Channel Band Edge



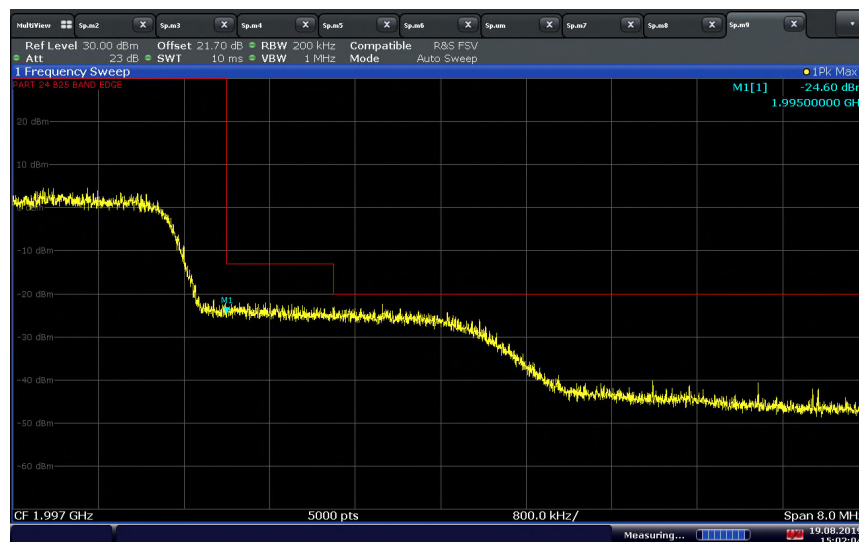
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LTE Band 25 Downlink_15MHz Bandwidth_Low Channel Band Edge



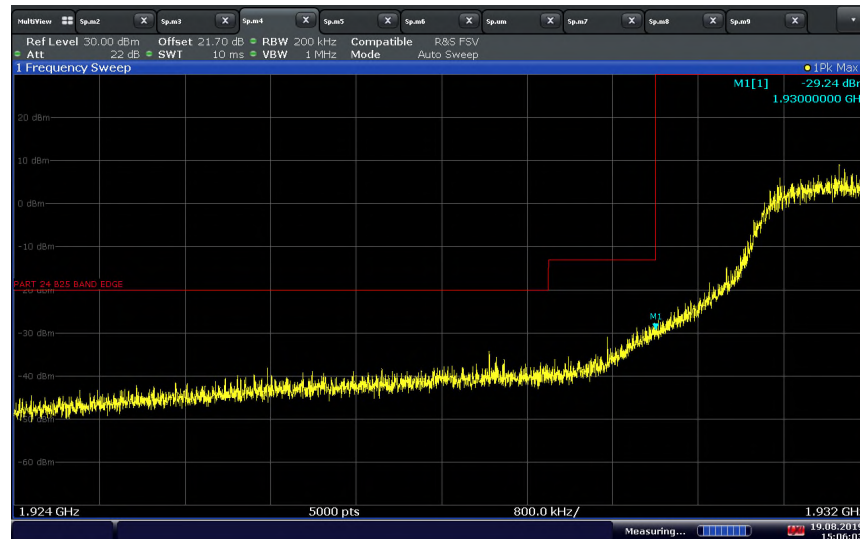
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LTE Band 25 Downlink_15MHz Bandwidth_High Channel Band Edge

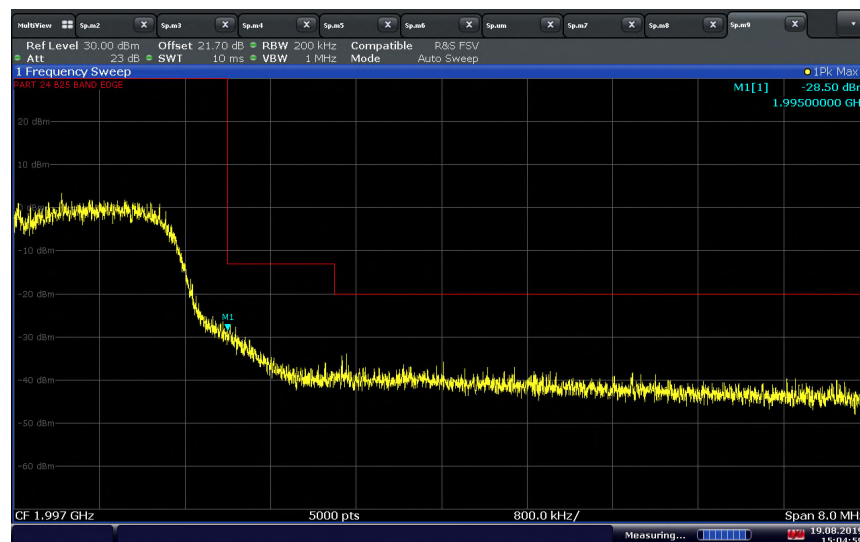


15:02:05 19.08.2019

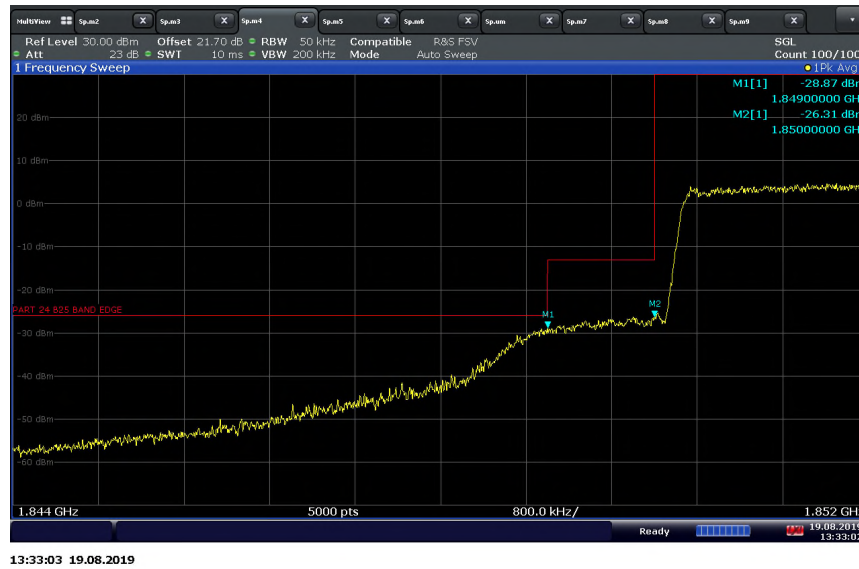
LTE Band 25 Downlink_20MHz Bandwidth_Low Channel Band Edge



LTE Band 25 Downlink_20MHz Bandwidth_High Channel Band Edge



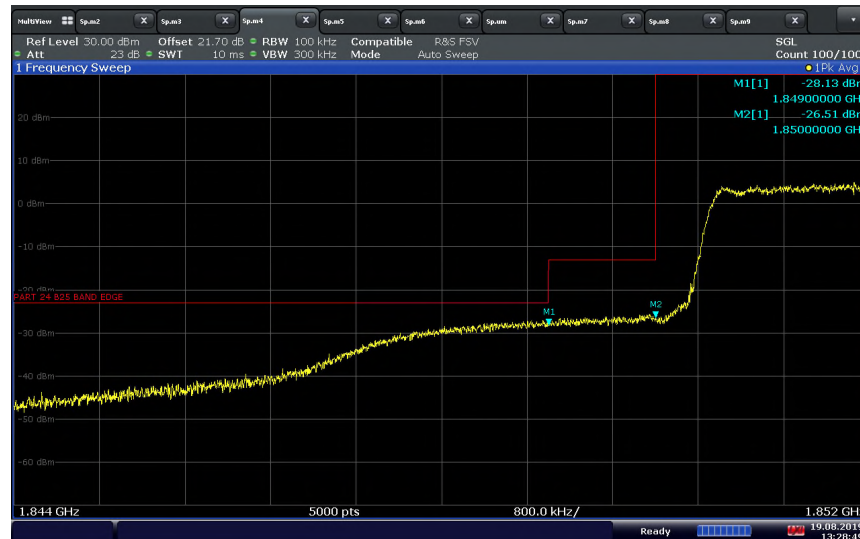
LTE Band 25 Uplink_5MHz Bandwidth_Low Channel Band Edge



LTE Band 25 Uplink_5MHz Bandwidth_High Channel Band Edge



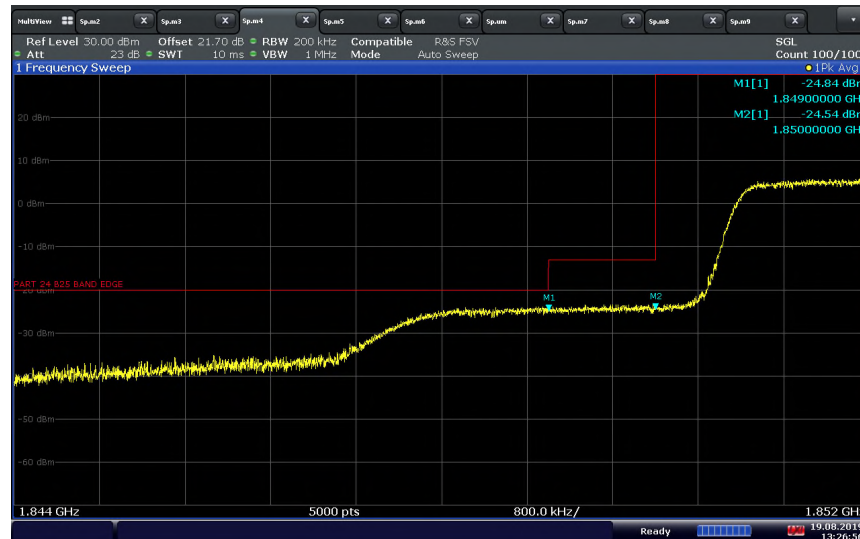
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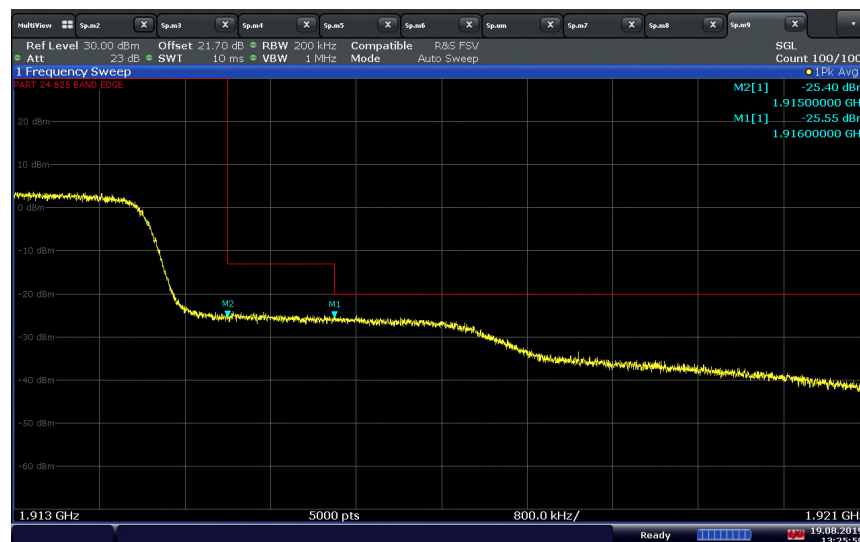
LTE Band 25 Uplink_10MHz Bandwidth_High Channel Band Edge



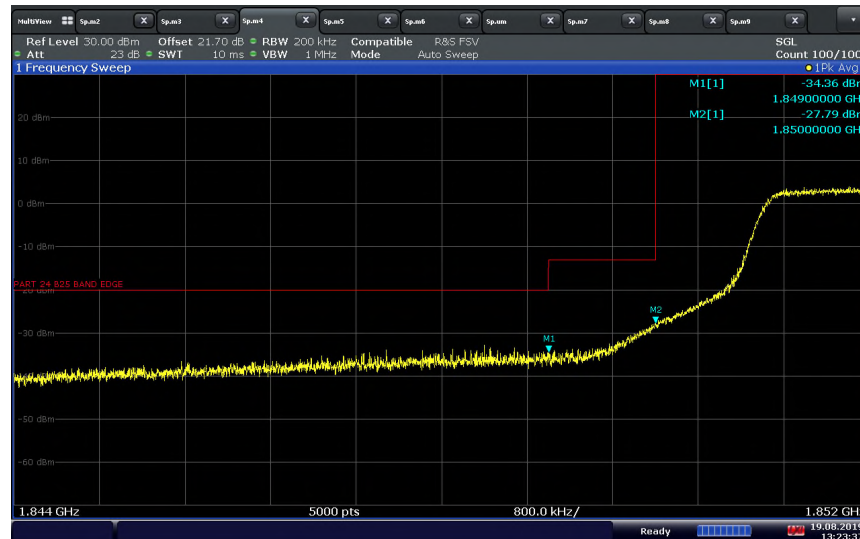
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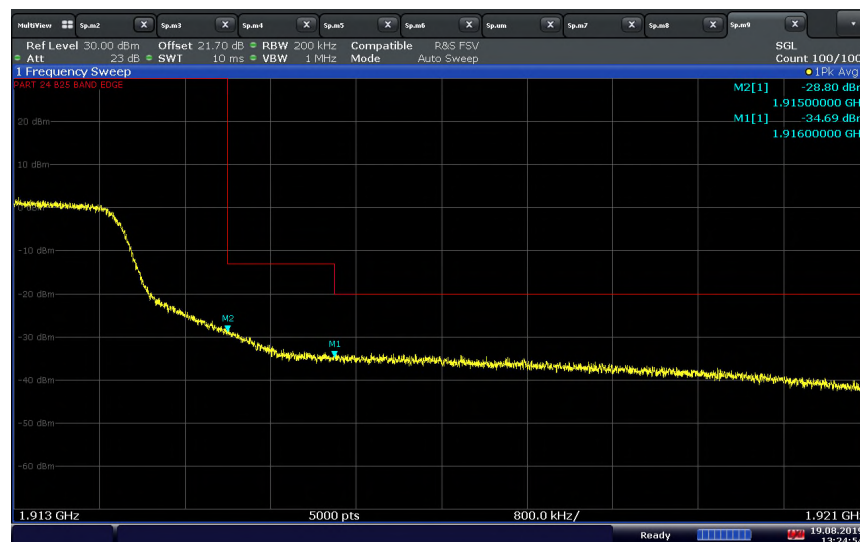
LTE Band 25 Uplink_15MHz Bandwidth_High Channel Band Edge



LTE Band 25 Uplink_20MHz Bandwidth_Low Channel Band Edge



LTE Band 25 Uplink_20MHz Bandwidth_High Channel Band Edge



2.7 CONDUCTED SPURIOUS EMISSIONS

2.7.1 Specification Reference

FCC 47 CFR Part 2, Clause 2.1051
FCC 47 CFR Part 22, Clause 22.917(a)
FCC 47 CFR Part 24, Clause 24.238(a)
RSS-132, Clause 5.5
RSS-133, Clause 6.5

2.7.2 Standard Applicable

Out of band emissions. 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.

2.7.3 Equipment Under Test and Modification State

Serial No: 370920000139 (NU) and 371929000156 (CU) / Test Configuration A and B

2.7.4 Date of Test/Initial of test personnel who performed the test

August 08, 13 and October 15, 16, 2019/XYZ

2.7.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.7.6 Environmental Conditions

Test performed at TÜV SÜD America Inc. Rancho Bernardo facility.

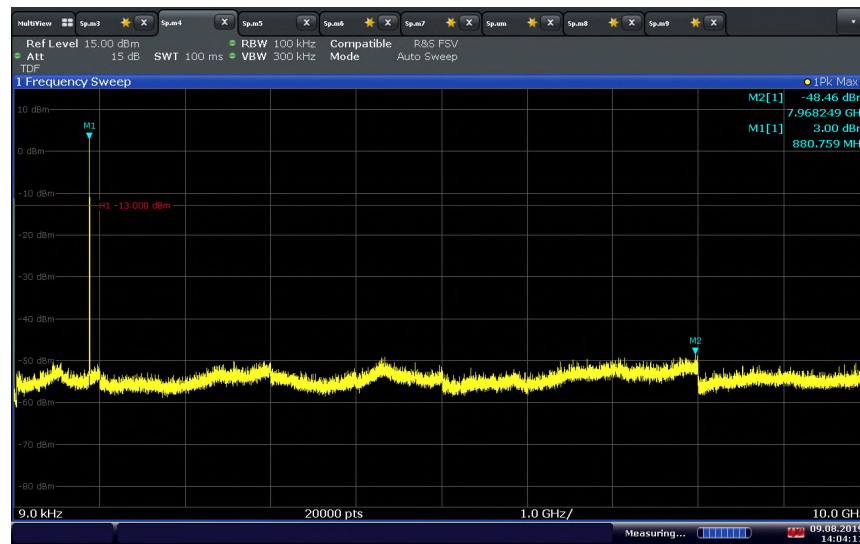
Ambient Temperature	24.5 - 25.8°C
Relative Humidity	45.0 - 53.3%
ATM Pressure	98.9 - 99.0kPa

2.7.7 Additional Observations

- This is a conducted test. Test guidance is per Section 6.1 of KDB971168 (D01 Power Meas License Digital Systems v03r01).
- The transducer factor (TDF) used is from the external attenuators and cables used.
- A resolution bandwidth of 100 kHz was used for WCDMA/LTE Band 5, and 1MHz was used for LTE Band 25.
- The limit is set to -13dBm.
- Only test plots for middle channel were presented as the representative configuration.

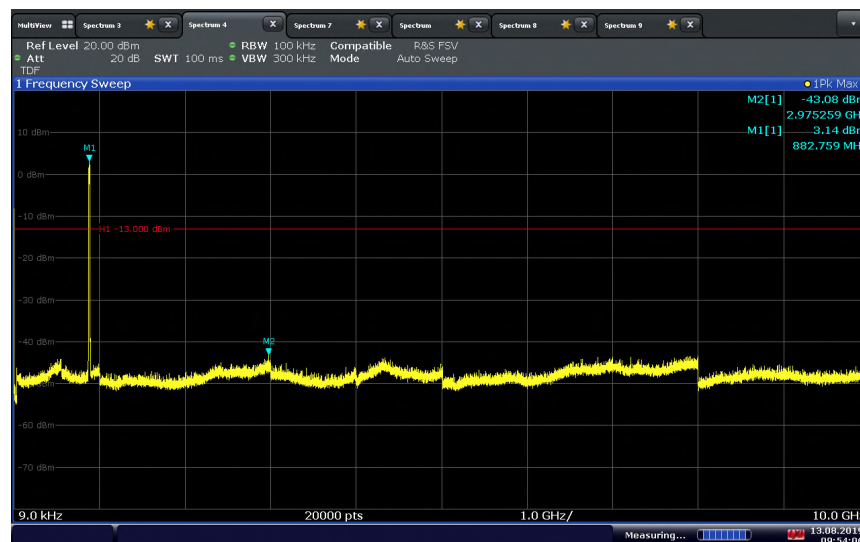
2.7.8 Test Results

WCDMA Band 5_5MHz Bandwidth_Downlink Middle Channel Conducted Spurious Emissions



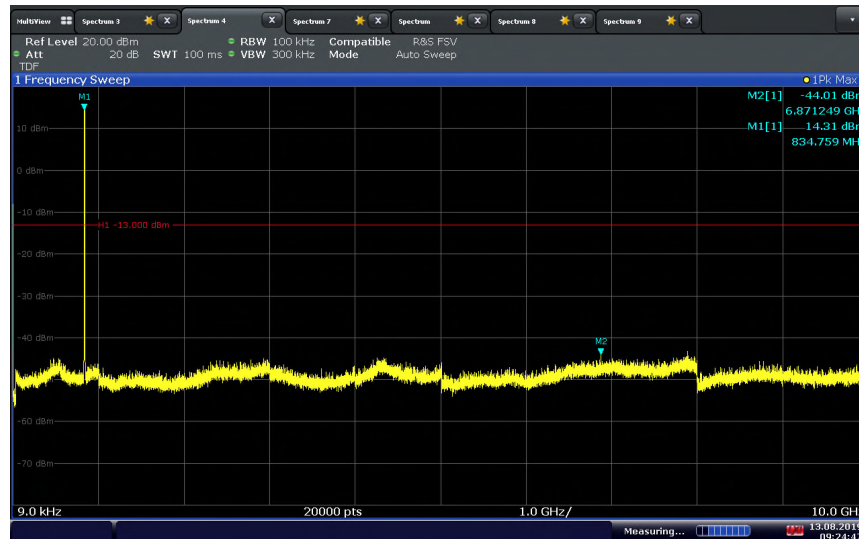
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WCDMA Band 5_15MHz Bandwidth_Downlink Middle Channel Conducted Spurious Emissions



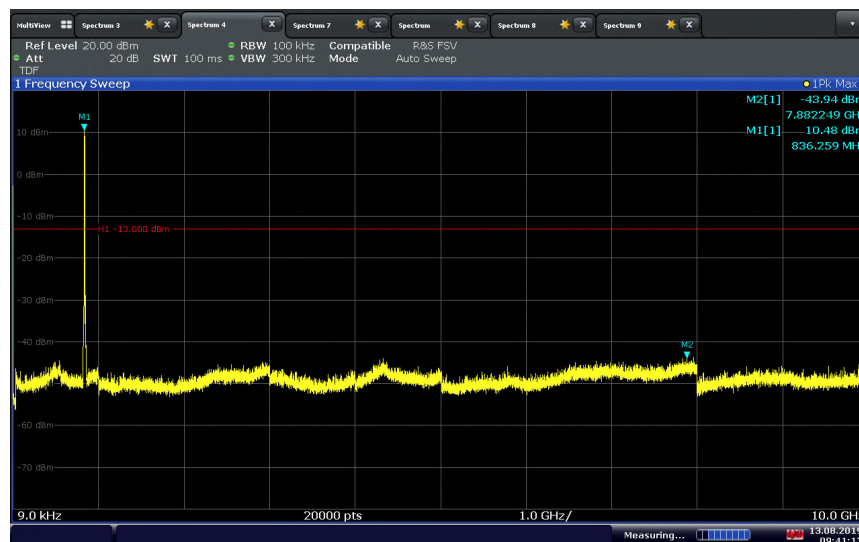
09:54:06 13.08.2019

WCDMA Band 5_5MHz Bandwidth_Uplink Middle Channel Conducted Spurious Emissions



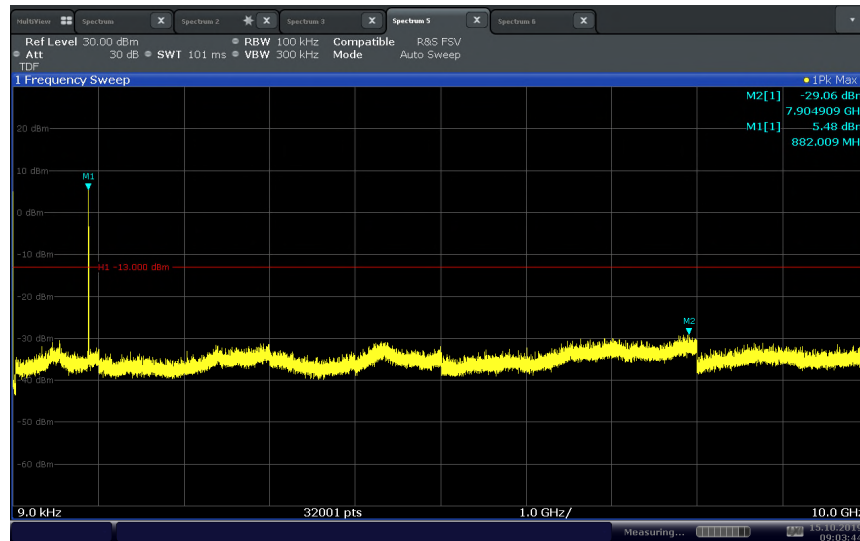
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WCDMA Band 5_15MHz Bandwidth_Uplink Middle Channel Conducted Spurious Emissions



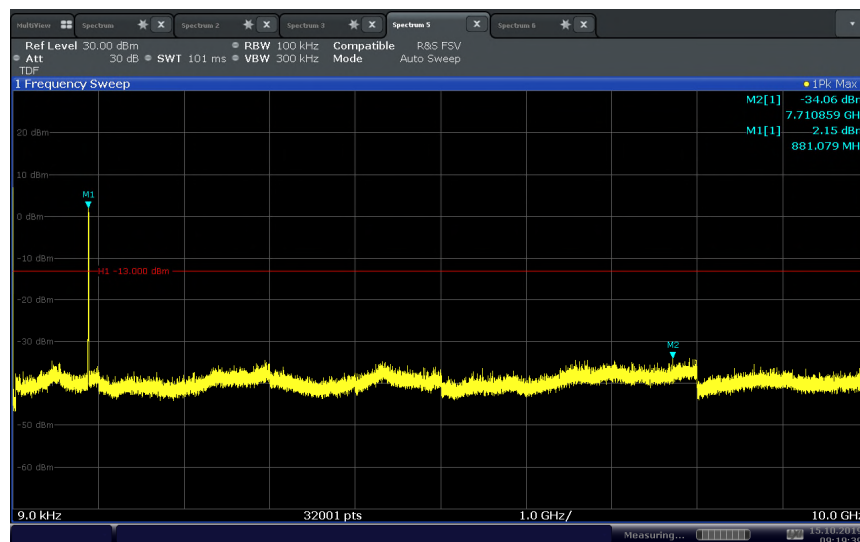
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LTE Band 5_5MHz Bandwidth_Downlink Middle Channel Conducted Spurious Emissions



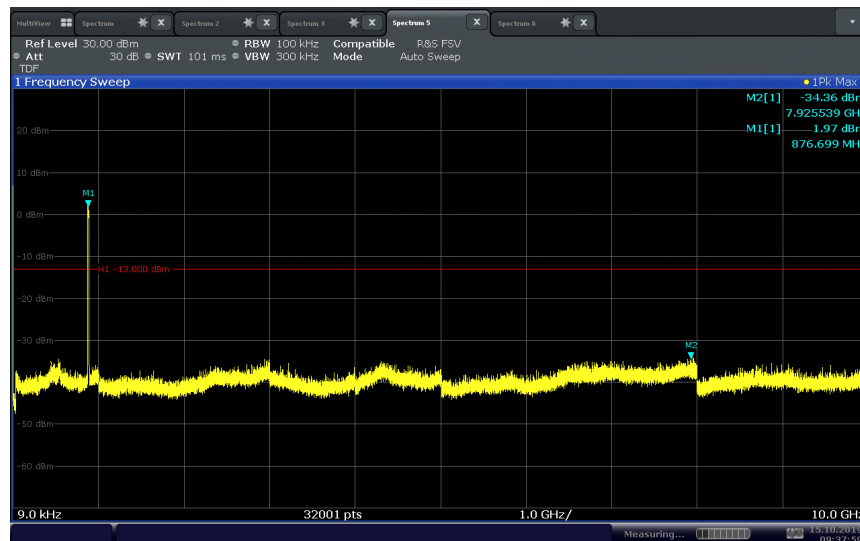
09:03:45 15.10.2019

LTE Band 5_10MHz Bandwidth_Downlink Middle Channel Conducted Spurious Emissions

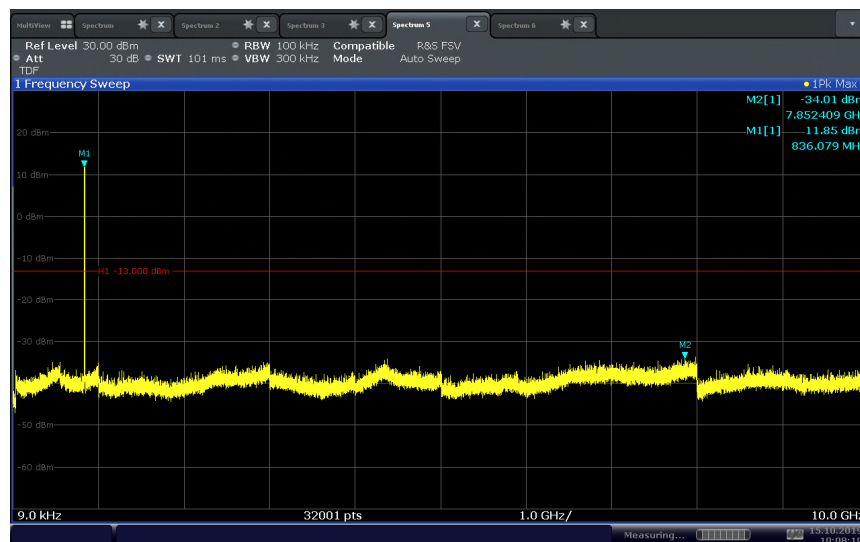


09:19:40 15.10.2019

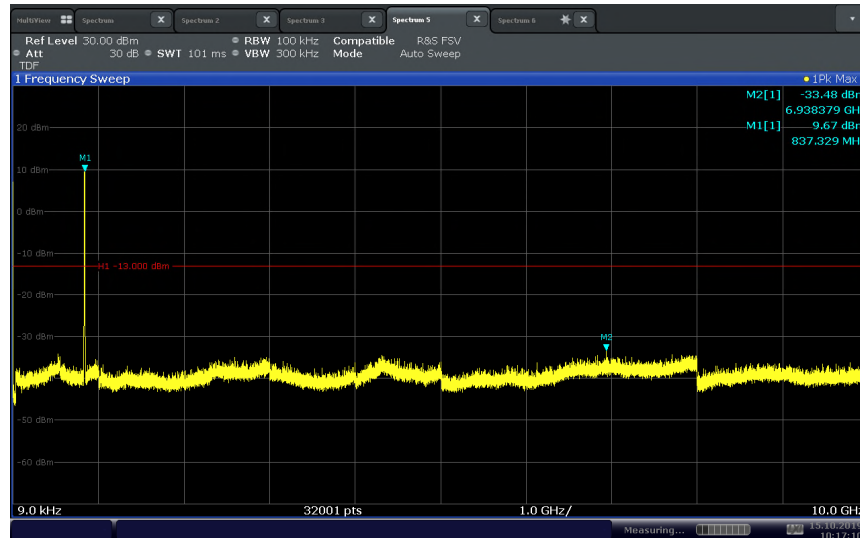
LTE Band 5_15MHz Bandwidth_Downlink Middle Channel Conducted Spurious Emissions



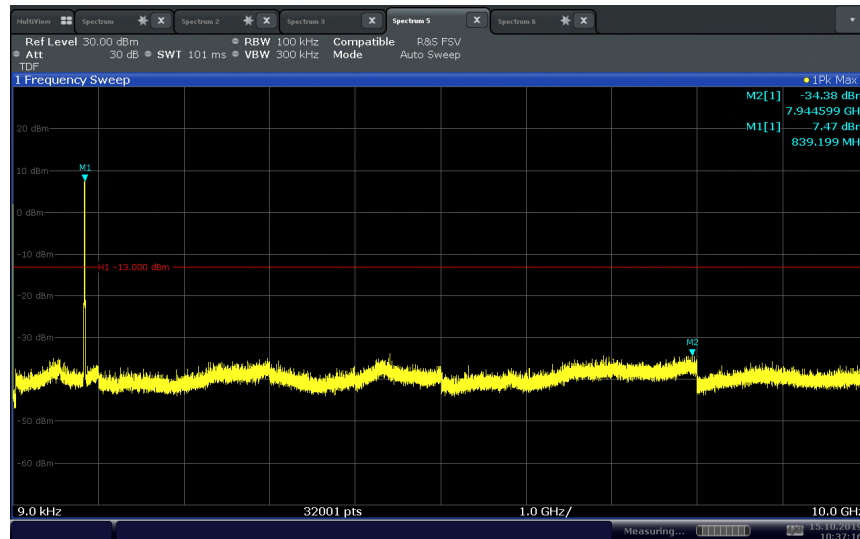
LTE Band 5_5MHz Bandwidth_Uplink Middle Channel Conducted Spurious Emissions



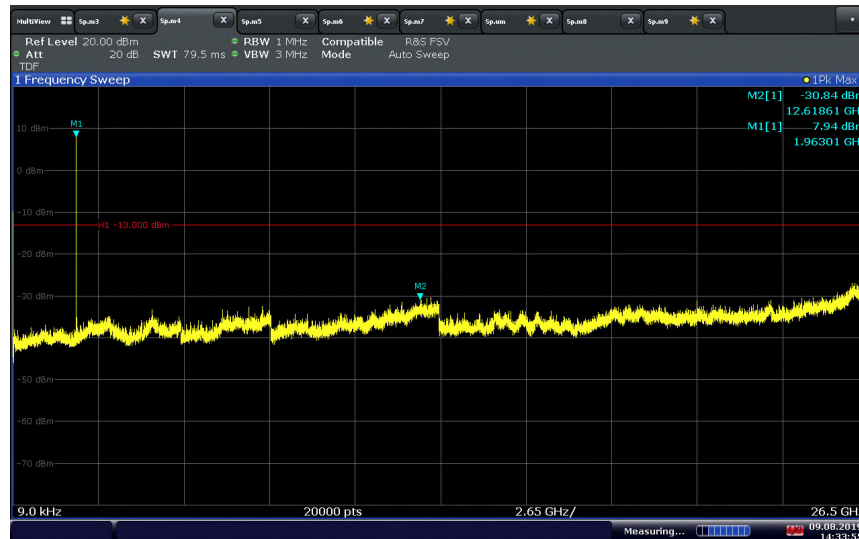
LTE Band 5_10MHz Bandwidth_Uplink Middle Channel Conducted Spurious Emissions



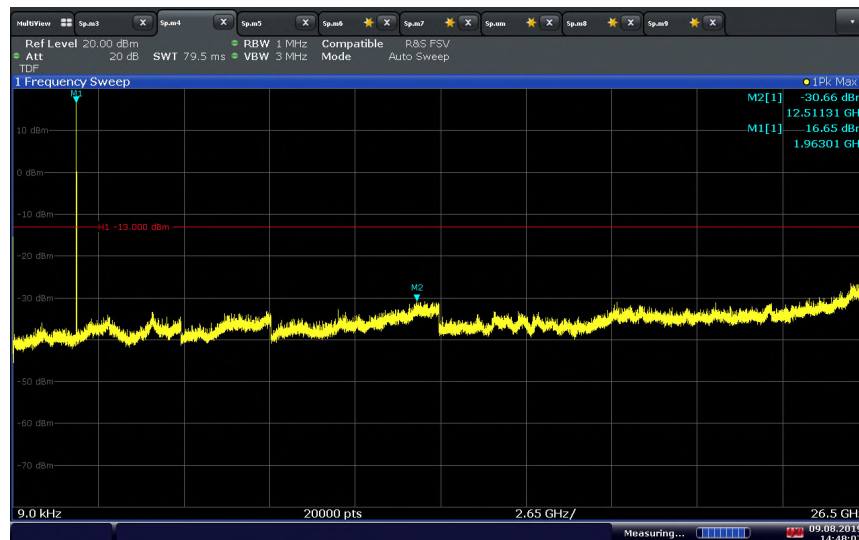
LTE Band 5_15MHz Bandwidth_Uplink Middle Channel Conducted Spurious Emissions



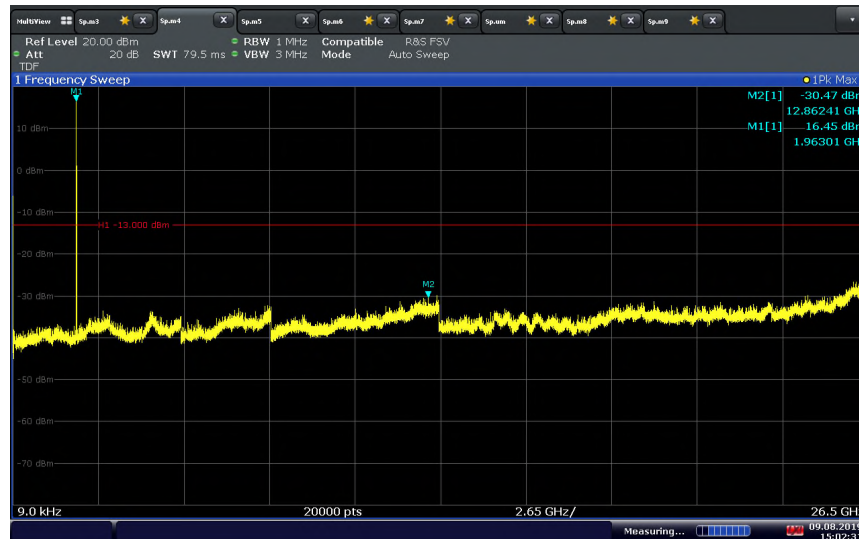
LTE Band 25_5MHz Bandwidth_Downlink Middle Channel Conducted Spurious Emissions



LTE Band 25_10MHz Bandwidth_Downlink Middle Channel Conducted Spurious Emissions

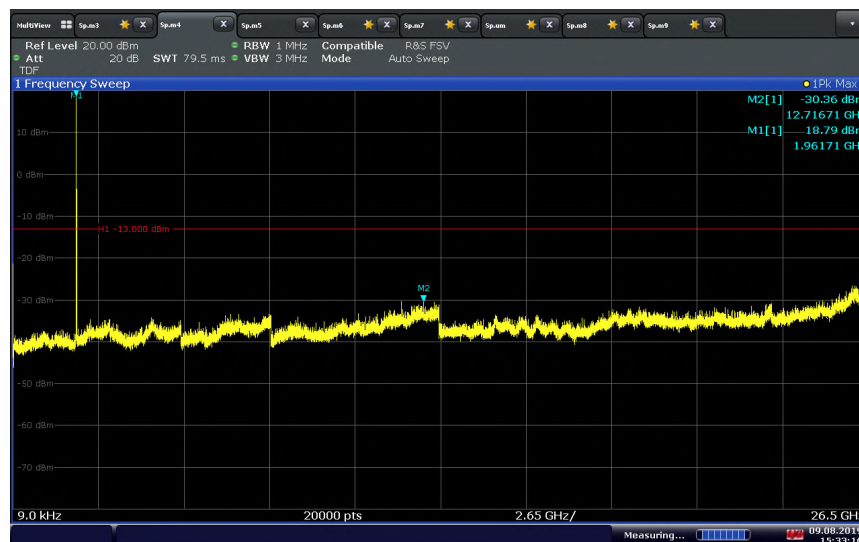


LTE Band 25_15MHz Bandwidth_Downlink Middle Channel Conducted Spurious Emissions



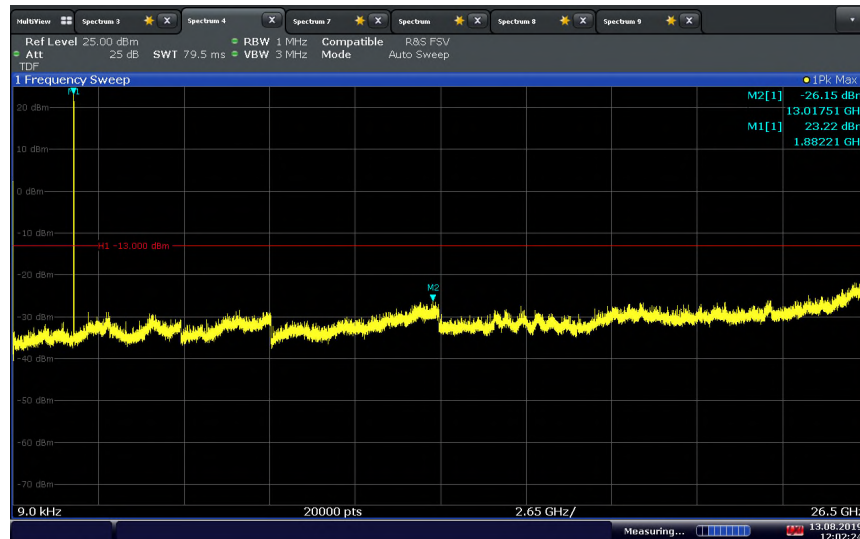
15:02:31 09.08.2019

LTE Band 25_20MHz Bandwidth_Downlink Middle Channel Conducted Spurious Emissions



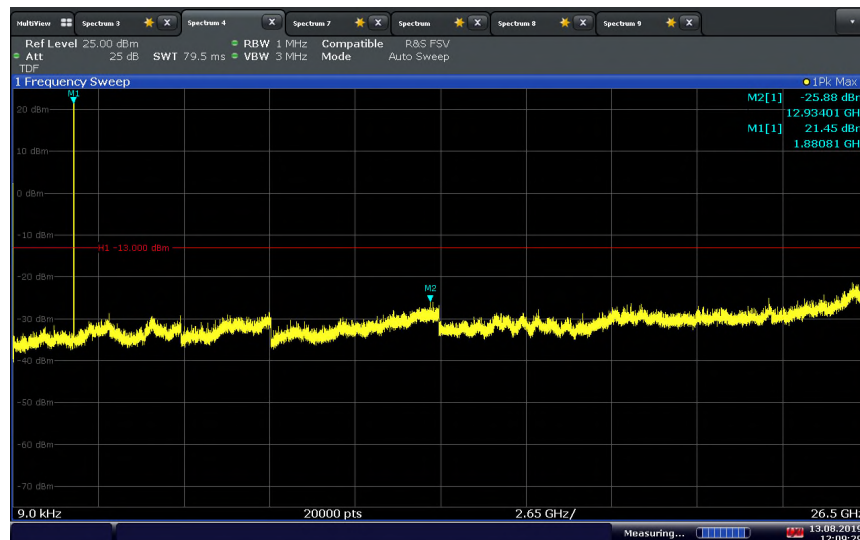
15:33:16 09.08.2019

LTE Band 25_5MHz Bandwidth_Uplink Middle Channel Conducted Spurious Emissions



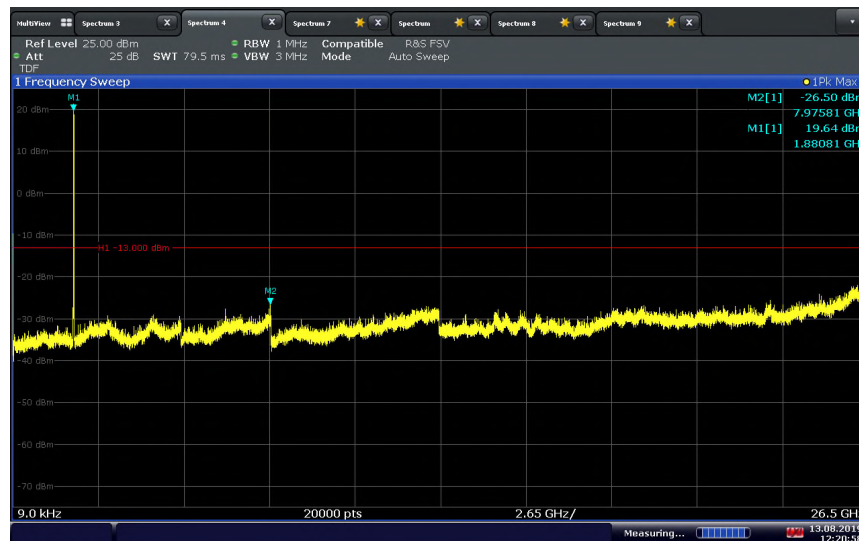
12:02:24 13.08.2019

LTE Band 25_10MHz Bandwidth_Uplink Middle Channel Conducted Spurious Emissions



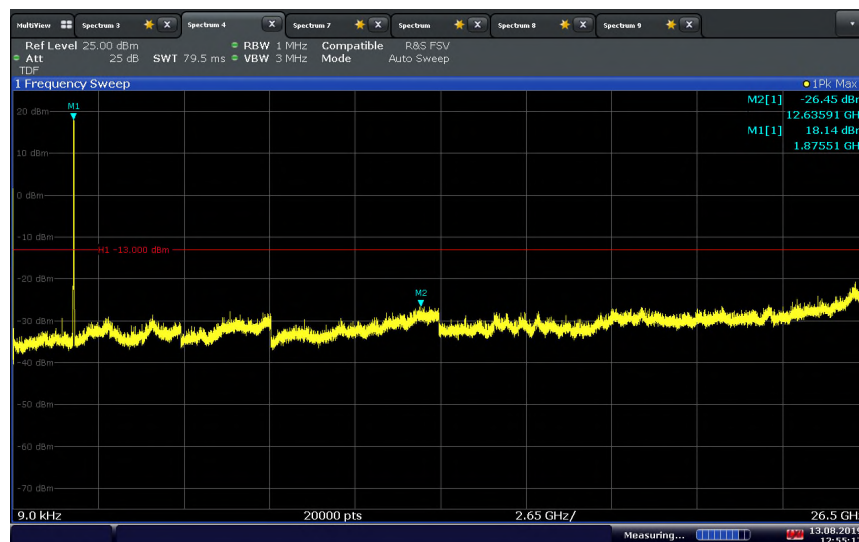
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LTE Band 25_15MHz Bandwidth_Uplink Middle Channel Conducted Spurious Emissions



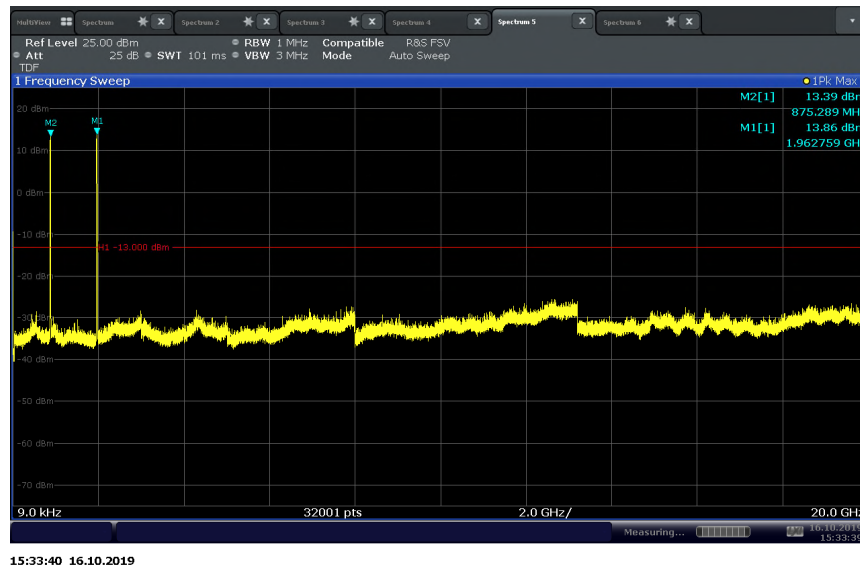
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LTE Band 25_20MHz Bandwidth_Uplink Middle Channel Conducted Spurious Emissions

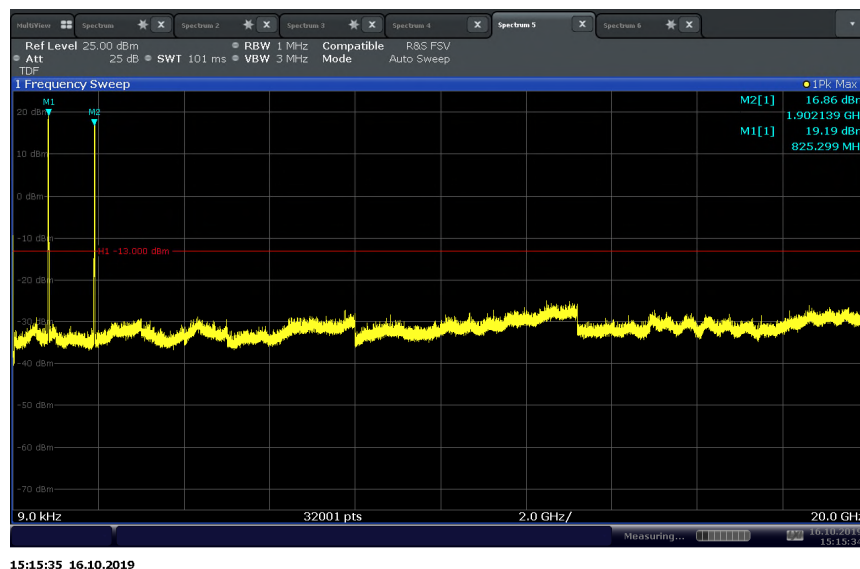


12:55:18 13.08.2019

2 Bands per antenna port Conducted Spurious Emissions
Antenna Port D Downlink: LTE Band 25 20MHz BW Mid Ch & LTE Band 5 15MHz BW Low Ch



2 Bands per antenna port Conducted Spurious Emissions
Antenna Port D Uplink: LTE Band 25 20MHz BW High Ch & LTE Band 5 15MHz BW Low Ch



2.8 FIELD STRENGTH OF SPURIOUS RADIATION

2.8.1 Specification Reference

FCC 47 CFR Part 2, Clause 2.1053
FCC 47 CFR Part 22, Clause 22.917(a)
FCC 47 CFR Part 24, Clause 24.238(a)
RSS-132, Clause 5.5
RSS-133, Clause 6.5

2.8.2 Standard Applicable

Out of band emissions. 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.

2.8.3 Equipment Under Test and Modification State

Serial No: 370920000139 (NU) and 371929000156 (CU) / Test Configuration C and D

2.8.4 Date of Test/Initial of test personnel who performed the test

August 14 to September 06, and October 27, 2019/XYZ

2.8.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.8.6 Environmental Conditions

Test performed at TÜV SÜD America Inc. Rancho Bernardo facility.

Ambient Temperature	25.8 - 26.4°C
Relative Humidity	31.1 - 53.7%
ATM Pressure	98.5 - 99.1kPa

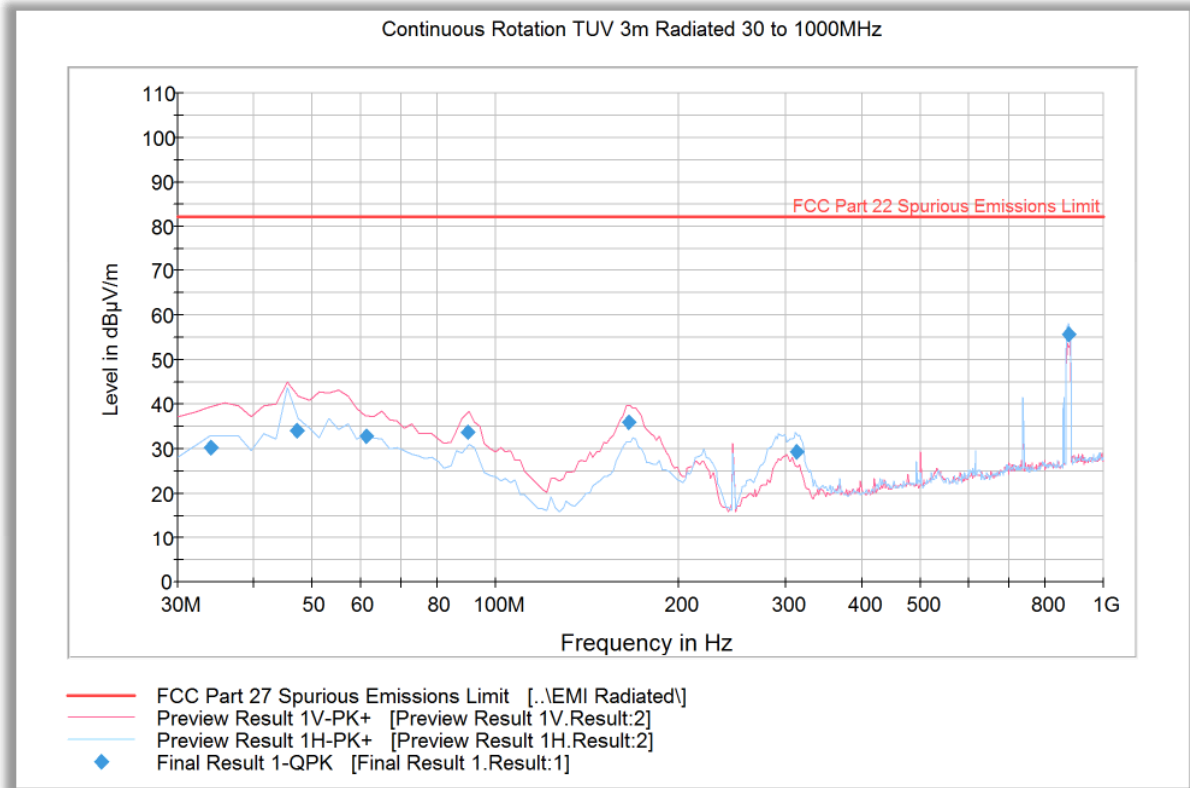
2.8.7 Additional Observations

- This is a radiated test using substitution method as per Unwanted Emissions: Radiated Spurious method of measurement of C63.26 2015.
- Only the worst case configuration presented in this test report.
- Measurement was done using EMC32 automated software. Reported level is the actual level with all the correction factors factored in. Correction Factor column is for informational purposes only.

2.8.8 Test Results

Compliant. See attached plots.

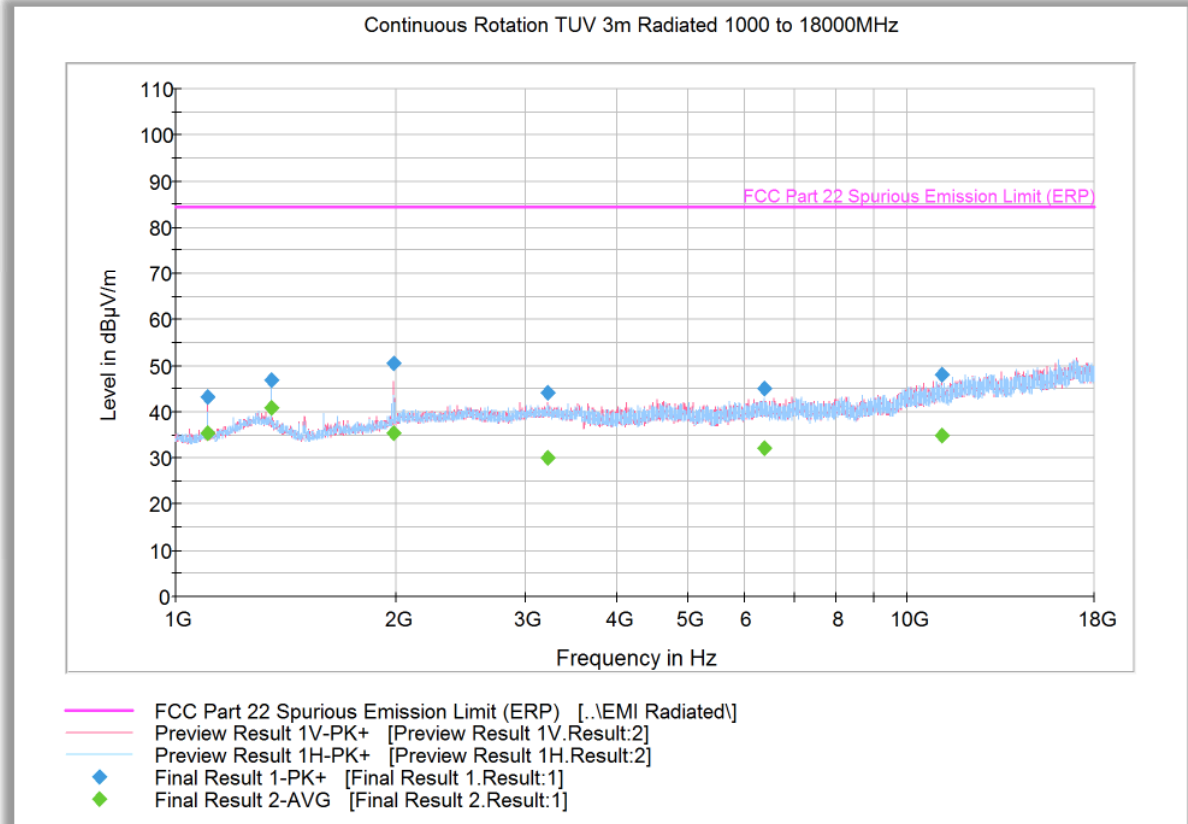
2.8.9 Test Results Below 1GHz (WCDMA Band 5 Downlink Worst Case Configuration) - 15MHz Bandwidth High Channel



Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
34.111663	30.2	1000.0	120.000	100.0	V	15.0	-9.6	54.2	84.4
47.111102	34.1	1000.0	120.000	155.0	V	189.0	-14.2	50.3	84.4
61.429980	32.9	1000.0	120.000	206.0	V	159.0	-16.8	51.5	84.4
89.940521	33.6	1000.0	120.000	100.0	V	312.0	-15.1	50.8	84.4
165.952144	35.9	1000.0	120.000	100.0	V	76.0	-11.8	48.5	84.4
312.239840	29.5	1000.0	120.000	109.0	H	330.0	-7.0	54.9	84.4
877.655070	55.5	1000.0	120.000	150.0	H	146.0	4.5	Fundamental Frequency	

2.8.10 Test Results Above 1GHz (WCDMA Band 5 Downlink Worst Case Configuration) - 15MHz Bandwidth Low Channel



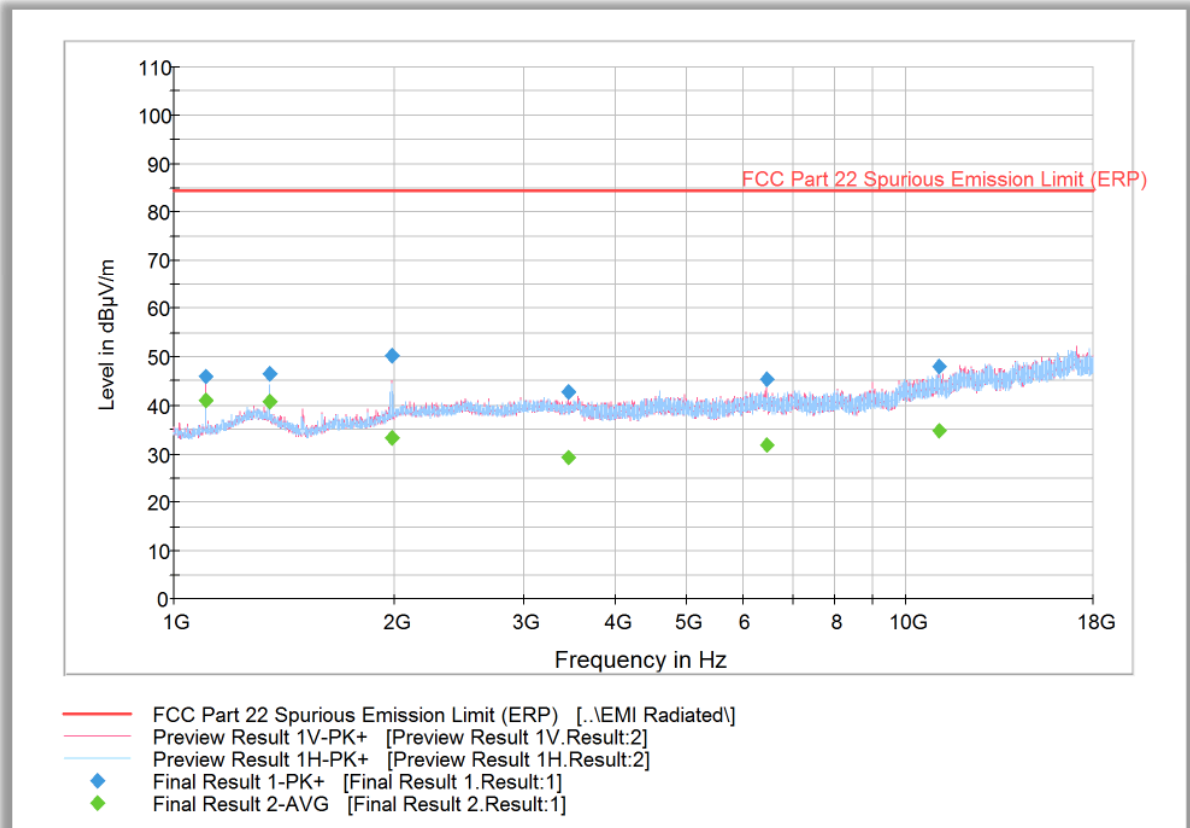
Peak Data

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1105.766667	43.2	1000.0	1000.000	250.5	H	236.0	-6.9	41.2	84.4
1351.933333	46.9	1000.0	1000.000	204.5	H	4.0	-5.1	37.5	84.4
1987.100000	50.4	1000.0	1000.000	199.5	V	177.0	-2.3	34.0	84.4
3220.233333	44.3	1000.0	1000.000	352.7	V	269.0	1.2	40.1	84.4
6357.966667	45.2	1000.0	1000.000	250.5	H	338.0	6.4	39.2	84.4
11115.366667	48.2	1000.0	1000.000	103.7	V	101.0	12.3	36.2	84.4

Average Data

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1105.766667	35.5	1000.0	1000.000	250.5	H	236.0	-6.9	48.8	84.4
1351.933333	41.0	1000.0	1000.000	204.5	H	4.0	-5.1	43.4	84.4
1987.100000	35.4	1000.0	1000.000	199.5	V	177.0	-2.3	49.0	84.4
3220.233333	29.9	1000.0	1000.000	352.7	V	269.0	1.2	54.4	84.4
6357.966667	32.2	1000.0	1000.000	250.5	H	338.0	6.4	52.2	84.4
11115.366667	34.8	1000.0	1000.000	103.7	V	101.0	12.3	49.6	84.4

2.8.11 Test Results Above 1GHz (WCDMA Band 5 Downlink Worst Case Configuration) - 15MHz Bandwidth Middle Channel



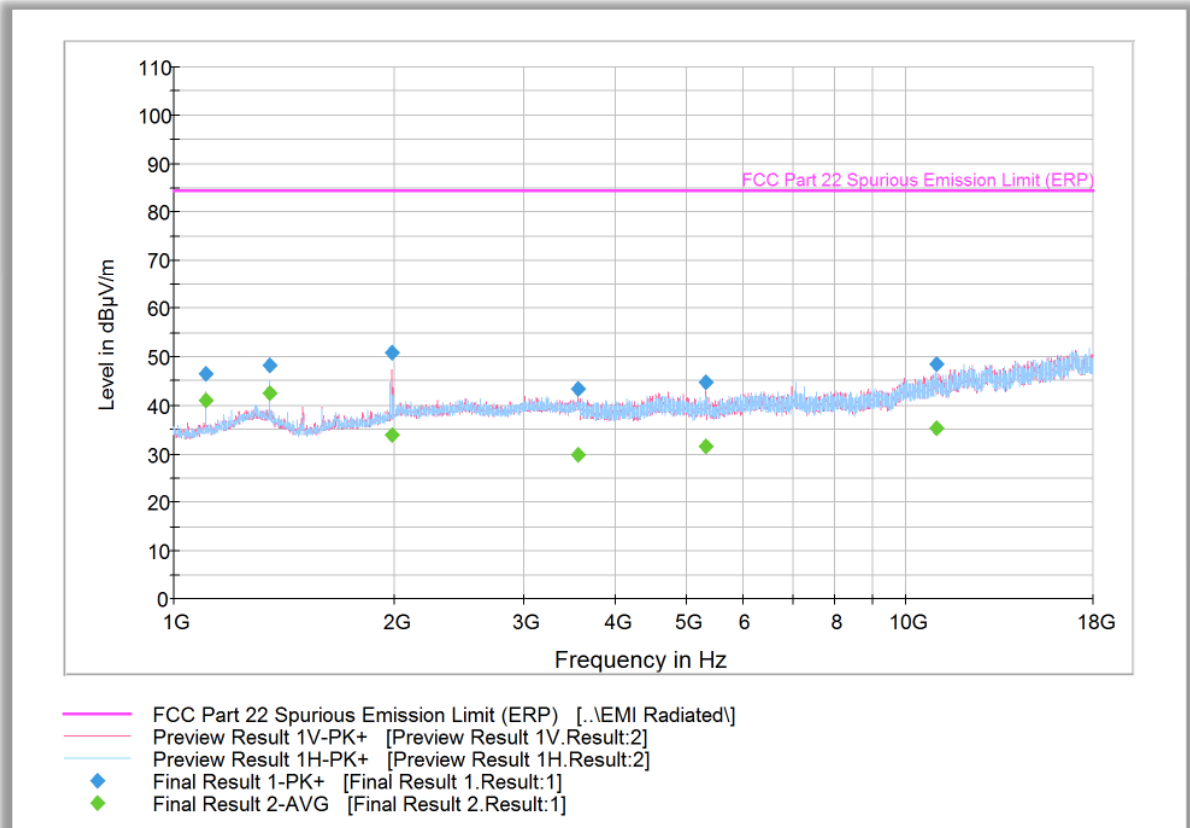
Peak Data

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1105.800000	46.0	1000.0	1000.000	286.2	V	202.0	-6.9	38.4	84.4
1351.766667	46.5	1000.0	1000.000	199.5	H	8.0	-5.1	37.8	84.4
1987.533333	50.2	1000.0	1000.000	200.5	V	192.0	-2.3	34.1	84.4
3451.800000	42.9	1000.0	1000.000	191.5	V	225.0	1.0	41.5	84.4
6459.266667	45.2	1000.0	1000.000	147.7	V	330.0	6.2	39.1	84.4
11068.766667	47.9	1000.0	1000.000	152.2	V	189.0	12.0	36.5	84.4

Average Data

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1105.800000	41.2	1000.0	1000.000	286.2	V	202.0	-6.9	43.2	84.4
1351.766667	40.7	1000.0	1000.000	199.5	H	8.0	-5.1	43.7	84.4
1987.533333	33.2	1000.0	1000.000	200.5	V	192.0	-2.3	51.1	84.4
3451.800000	29.4	1000.0	1000.000	191.5	V	225.0	1.0	54.9	84.4
6459.266667	31.7	1000.0	1000.000	147.7	V	330.0	6.2	52.6	84.4
11068.766667	34.7	1000.0	1000.000	152.2	V	189.0	12.0	49.7	84.4

2.8.12 Test Results Above 1GHz (WCDMA Band 5 Downlink Worst Case Configuration) - 15MHz Bandwidth High Channel



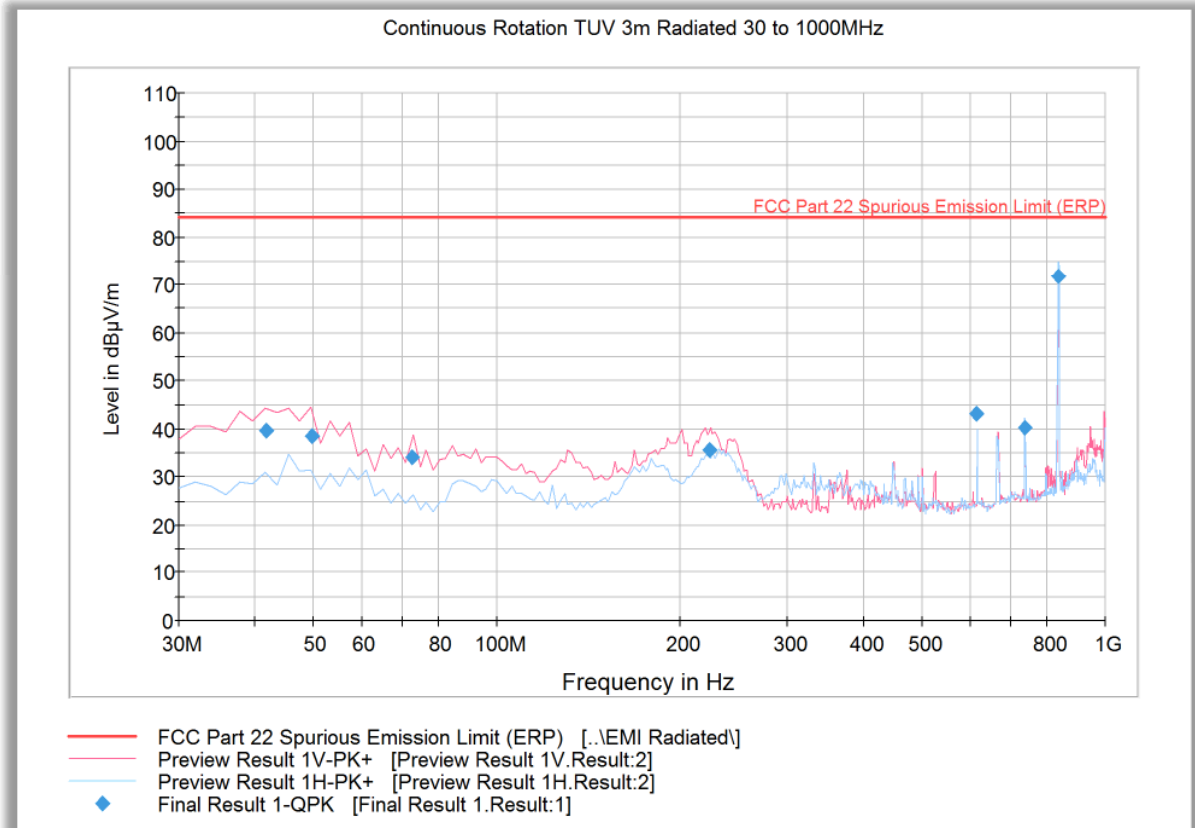
Peak Data

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1106.000000	46.4	1000.0	1000.000	289.2	V	199.0	-6.9	37.9	84.4
1351.533333	48.2	1000.0	1000.000	199.5	H	7.0	-5.1	36.2	84.4
1986.966667	50.8	1000.0	1000.000	213.4	V	113.0	-2.3	33.6	84.4
3568.900000	43.5	1000.0	1000.000	201.5	V	86.0	1.7	40.9	84.4
5317.066667	44.7	1000.0	1000.000	194.5	V	10.0	4.7	39.6	84.4
10987.533333	48.5	1000.0	1000.000	323.2	H	-19.0	11.8	35.8	84.4

Average Data

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1106.000000	41.0	1000.0	1000.000	289.2	V	199.0	-6.9	43.4	84.4
1351.533333	42.6	1000.0	1000.000	199.5	H	7.0	-5.1	41.8	84.4
1986.966667	33.8	1000.0	1000.000	213.4	V	113.0	-2.3	50.5	84.4
3568.900000	29.9	100.0	1000.000	103.7	H	191.0	1.7	54.4	84.4
5317.066667	31.7	1000.0	1000.000	194.5	V	10.0	4.7	52.7	84.4
10987.533333	35.4	1000.0	1000.000	323.2	H	-19.0	11.8	48.9	84.4

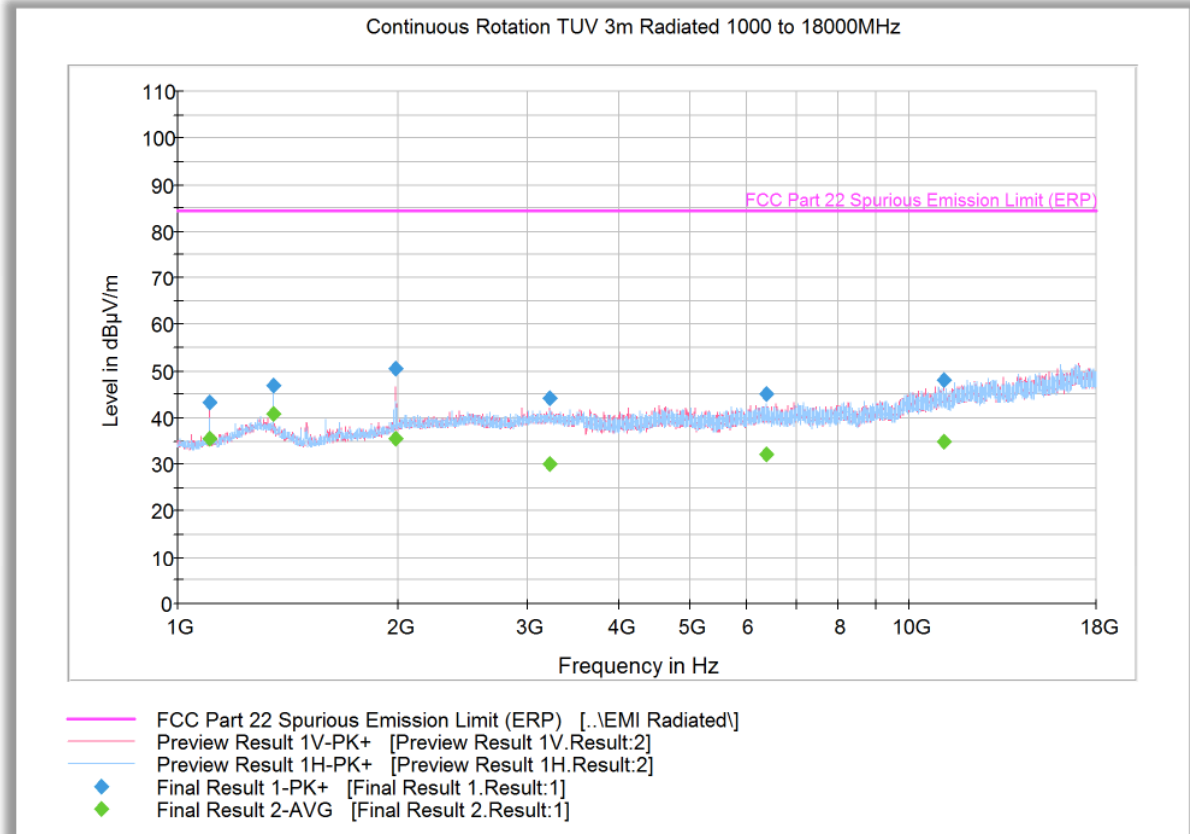
2.8.13 Test Results Below 1GHz (WCDMA Band 5 Uplink Worst Case Configuration) - 5MHz Bandwidth Middle Channel



Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
41.743327	39.7	1000.0	120.000	100.0	V	259.0	-12.6	44.7	84.4
49.638878	38.4	1000.0	120.000	105.0	V	247.0	-15.1	45.9	84.4
72.445531	34.1	1000.0	120.000	144.0	V	113.0	-17.2	50.3	84.4
223.748778	35.7	1000.0	120.000	109.0	V	214.0	-9.5	48.7	84.4
614.390220	43.0	1000.0	120.000	126.0	H	300.0	0.9	41.4	84.4
737.255150	40.3	1000.0	120.000	183.0	V	155.0	2.7	44.1	84.4
837.033427	71.7	1000.0	120.000	100.0	H	38.0	4.0	Fundamental Frequency	

2.8.14 Test Results Above 1GHz (WCDMA Band 5 Uplink Worst Case Configuration) - 5MHz Bandwidth Low Channel



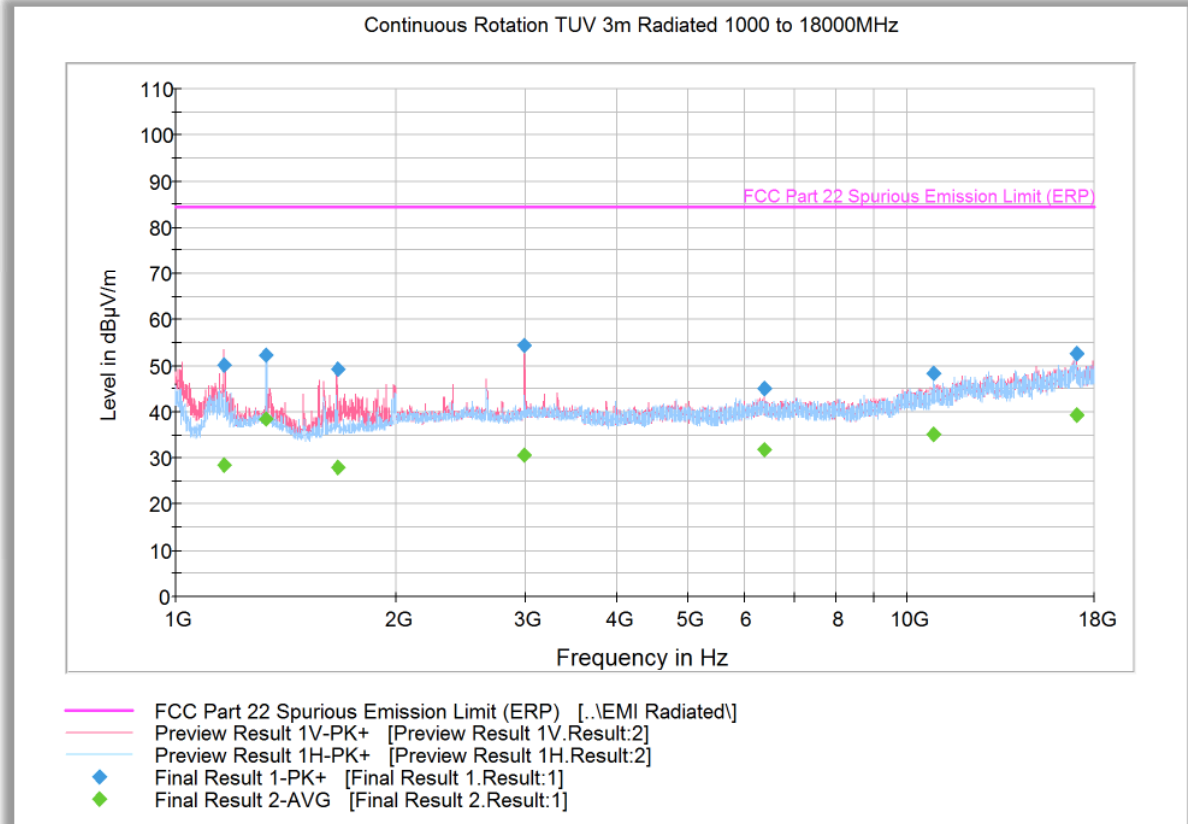
Peak Data

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1105.766667	43.2	1000.0	1000.000	250.5	H	236.0	-6.9	41.2	84.4
1351.933333	46.9	1000.0	1000.000	204.5	H	4.0	-5.1	37.5	84.4
1987.100000	50.4	1000.0	1000.000	199.5	V	177.0	-2.3	34.0	84.4
3220.233333	44.3	1000.0	1000.000	352.7	V	269.0	1.2	40.1	84.4
6357.966667	45.2	1000.0	1000.000	250.5	H	338.0	6.4	39.2	84.4
11115.366667	48.2	1000.0	1000.000	103.7	V	101.0	12.3	36.2	84.4

Average Data

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1105.766667	35.5	1000.0	1000.000	250.5	H	236.0	-6.9	48.8	84.4
1351.933333	41.0	1000.0	1000.000	204.5	H	4.0	-5.1	43.4	84.4
1987.100000	35.4	1000.0	1000.000	199.5	V	177.0	-2.3	49.0	84.4
3220.233333	29.9	1000.0	1000.000	352.7	V	269.0	1.2	54.4	84.4
6357.966667	32.2	1000.0	1000.000	250.5	H	338.0	6.4	52.2	84.4
11115.366667	34.8	1000.0	1000.000	103.7	V	101.0	12.3	49.6	84.4

2.8.15 Test Results Above 1GHz (WCDMA Band 5 Uplink Worst Case Configuration) - 5MHz Bandwidth Middle Channel



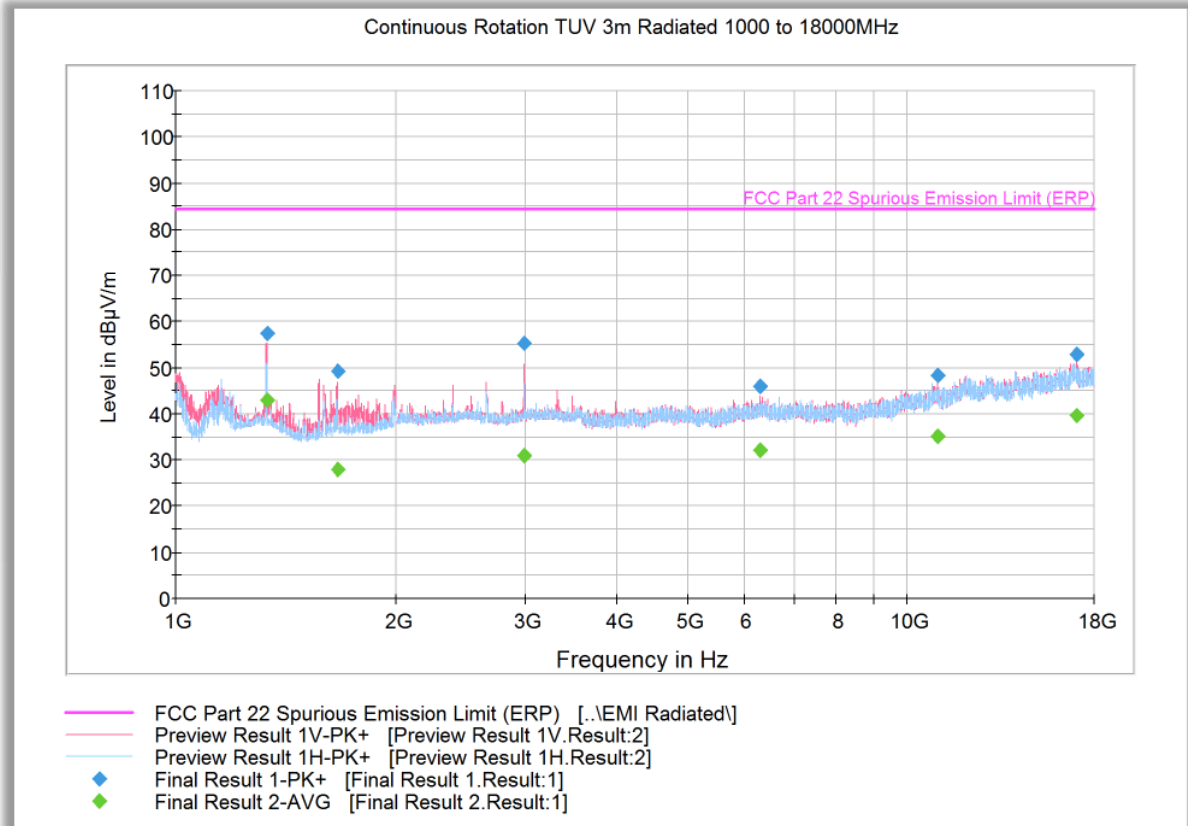
Peak Data

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1167.033333	50.2	1000.0	1000.000	227.4	V	241.0	-6.7	34.1	84.4
1329.100000	52.2	1000.0	1000.000	408.9	H	315.0	-5.1	32.2	84.4
1663.800000	49.2	1000.0	1000.000	310.2	V	296.0	-5.2	35.2	84.4
2998.066667	54.5	1000.0	1000.000	315.2	V	246.0	0.9	29.9	84.4
6367.500000	45.1	1000.0	1000.000	173.6	V	136.0	6.4	39.2	84.4
10866.033333	48.5	1000.0	1000.000	325.1	H	271.0	11.9	35.9	84.4
17009.700000	52.5	1000.0	1000.000	153.2	V	-9.0	17.8	31.9	84.4

Average Data

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1167.033333	28.5	1000.0	1000.000	227.4	V	241.0	-6.7	55.9	84.4
1329.100000	38.4	1000.0	1000.000	408.9	H	315.0	-5.1	45.9	84.4
1663.800000	28.1	1000.0	1000.000	310.2	V	296.0	-5.2	56.3	84.4
2998.066667	30.7	1000.0	1000.000	315.2	V	246.0	0.9	53.6	84.4
6367.500000	31.8	1000.0	1000.000	173.6	V	136.0	6.4	52.5	84.4
10866.033333	35.0	1000.0	1000.000	325.1	H	271.0	11.9	49.3	84.4
17009.700000	39.5	1000.0	1000.000	153.2	V	-9.0	17.8	44.9	84.4

2.8.16 Test Results Above 1GHz (WCDMA Band 5 Uplink Worst Case Configuration) - 5MHz Bandwidth High Channel



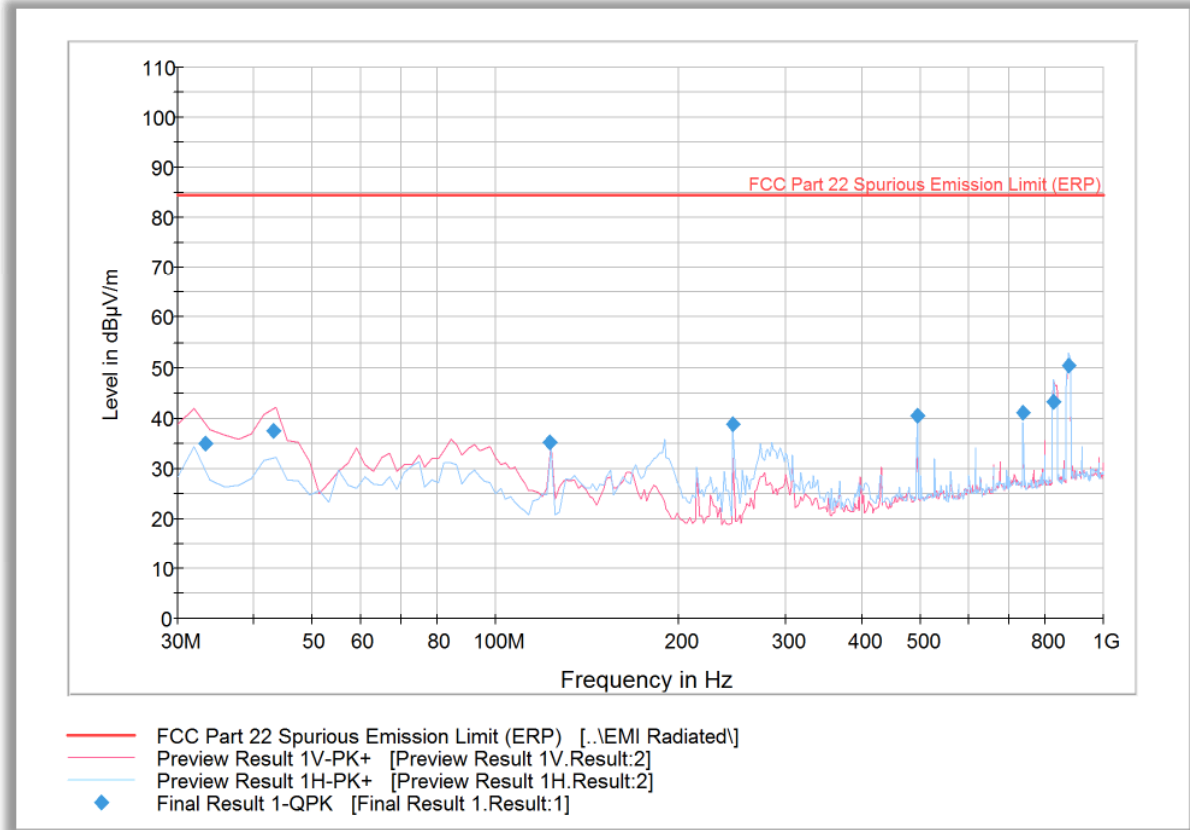
Peak Data

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1331.133333	57.6	1000.0	1000.000	199.5	V	94.0	-5.1	26.8	84.4
1663.966667	49.4	1000.0	1000.000	332.1	V	254.0	-5.2	35.0	84.4
2997.733333	55.4	1000.0	1000.000	139.7	V	266.0	0.9	29.0	84.4
6295.333333	46.1	1000.0	1000.000	225.4	V	34.0	6.2	38.3	84.4
11004.300000	48.4	1000.0	1000.000	270.3	V	38.0	11.8	36.0	84.4
16971.900000	53.0	1000.0	1000.000	146.7	V	70.0	17.9	31.4	84.4

Average Data

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1331.133333	42.9	1000.0	1000.000	199.5	V	94.0	-5.1	41.5	84.4
1663.966667	27.9	1000.0	1000.000	332.1	V	254.0	-5.2	56.5	84.4
2997.733333	31.0	1000.0	1000.000	139.7	V	266.0	0.9	53.4	84.4
6295.333333	32.1	1000.0	1000.000	225.4	V	34.0	6.2	52.2	84.4
11004.300000	35.1	1000.0	1000.000	270.3	V	38.0	11.8	49.3	84.4
16971.900000	39.7	1000.0	1000.000	146.7	V	70.0	17.9	44.7	84.4

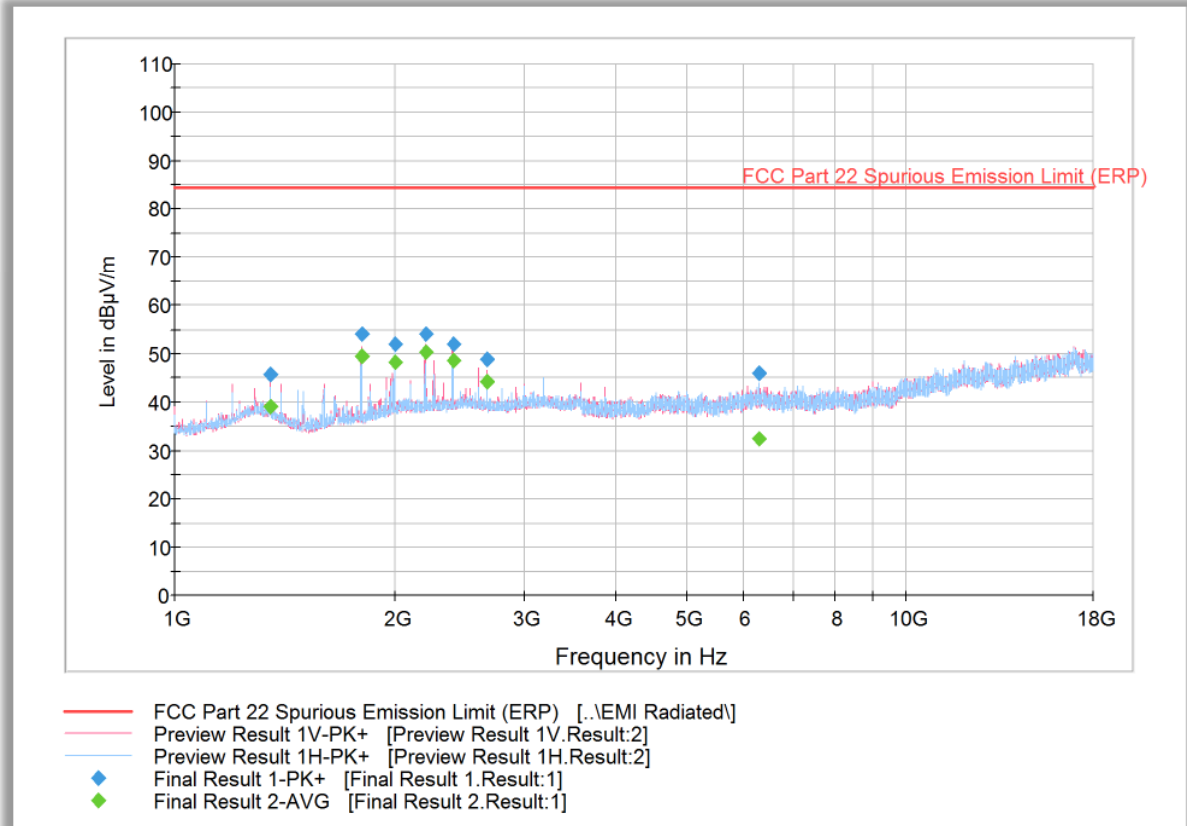
2.8.17 Test Results Below 1GHz (LTE Band 5 Downlink and Uplink Worst Case Configuration) - 15MHz Bandwidth Low Channel



Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
33.400000	34.8	1000.0	120.000	110.0	V	165.0	-10.9	49.6	84.4
43.047214	37.4	1000.0	120.000	109.0	V	38.0	-14.6	46.9	84.4
122.866613	35.1	1000.0	120.000	105.0	V	253.0	-15.8	49.3	84.4
245.731543	38.7	1000.0	120.000	133.0	H	153.0	-9.7	45.7	84.4
494.989178	40.6	1000.0	120.000	100.0	H	162.0	-2.8	43.8	84.4
737.255150	41.1	1000.0	120.000	123.0	H	35.0	1.7	43.3	84.4
829.617876	43.3	1000.0	120.000	100.0	H	73.0	3.1	UL Fundamental Frequency	
875.495070	50.4	1000.0	120.000	100.0	H	90.0	3.6	DL Fundamental Frequency	

2.8.18 Test Results Above 1GHz (LTE Band 5 Downlink and Uplink Worst Case Configuration) - 15MHz Bandwidth Low Channel



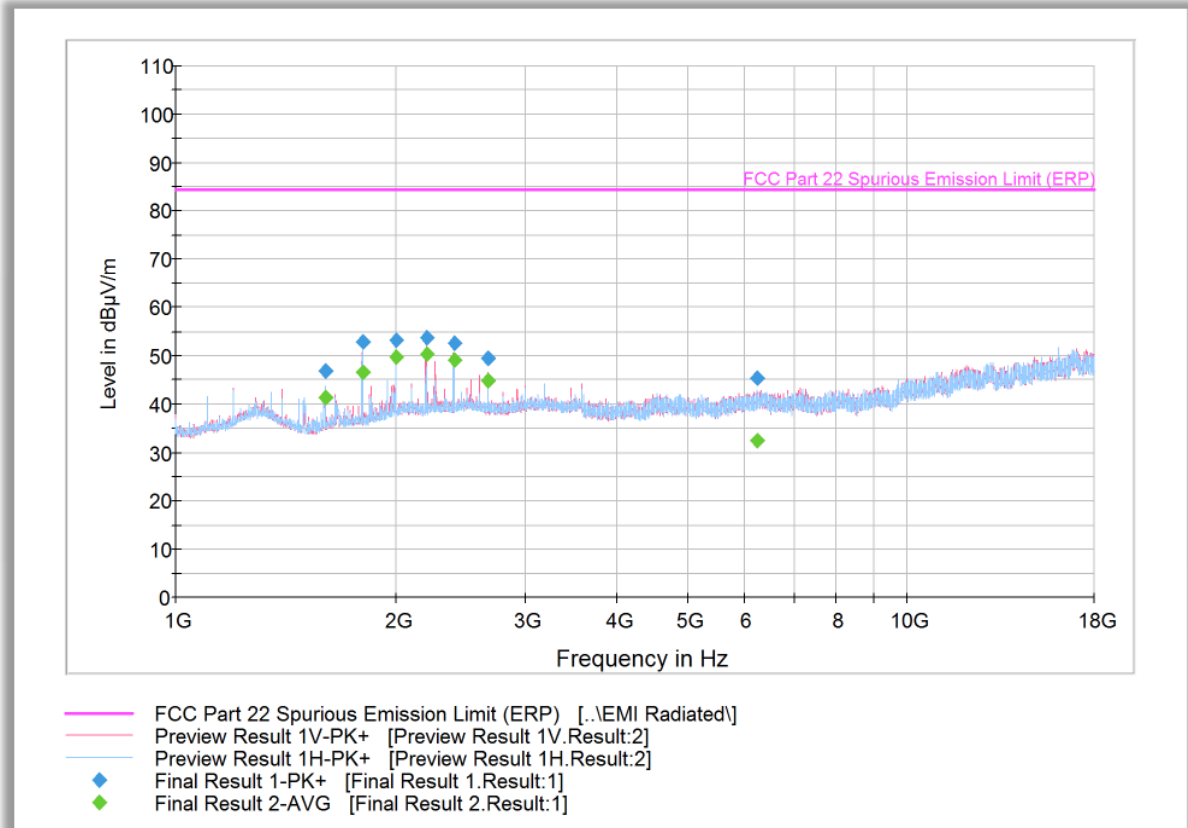
Peak Data

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1351.700000	45.7	1000.0	1000.000	211.0	V	282.0	-5.1	38.7	84.4
1800.166667	54.0	1000.0	1000.000	173.0	H	242.0	-3.4	30.4	84.4
1999.966667	52.0	1000.0	1000.000	292.0	H	225.0	-2.2	32.4	84.4
2200.000000	54.0	1000.0	1000.000	117.0	V	169.0	-1.6	30.4	84.4
2400.066667	52.0	1000.0	1000.000	100.0	V	187.0	-1.1	32.4	84.4
2666.766667	48.9	1000.0	1000.000	100.0	V	185.0	-0.2	35.5	84.4
6287.933333	45.8	1000.0	1000.000	305.0	H	163.0	6.2	38.5	84.4

Average Data

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1351.700000	39.0	1000.0	1000.000	211.0	V	282.0	-5.1	45.4	84.4
1800.166667	49.5	1000.0	1000.000	173.0	H	242.0	-3.4	34.9	84.4
1999.966667	48.3	1000.0	1000.000	292.0	H	225.0	-2.2	36.1	84.4
2200.000000	50.4	1000.0	1000.000	117.0	V	169.0	-1.6	34.0	84.4
2400.066667	48.6	1000.0	1000.000	100.0	V	187.0	-1.1	35.8	84.4
2666.766667	44.4	1000.0	1000.000	100.0	V	185.0	-0.2	40.0	84.4
6287.933333	32.5	1000.0	1000.000	305.0	H	163.0	6.2	51.9	84.4

2.8.19 Test Results Above 1GHz (LTE Band 5 Downlink and Uplink Worst Case Configuration) - 15MHz Bandwidth Middle Channel



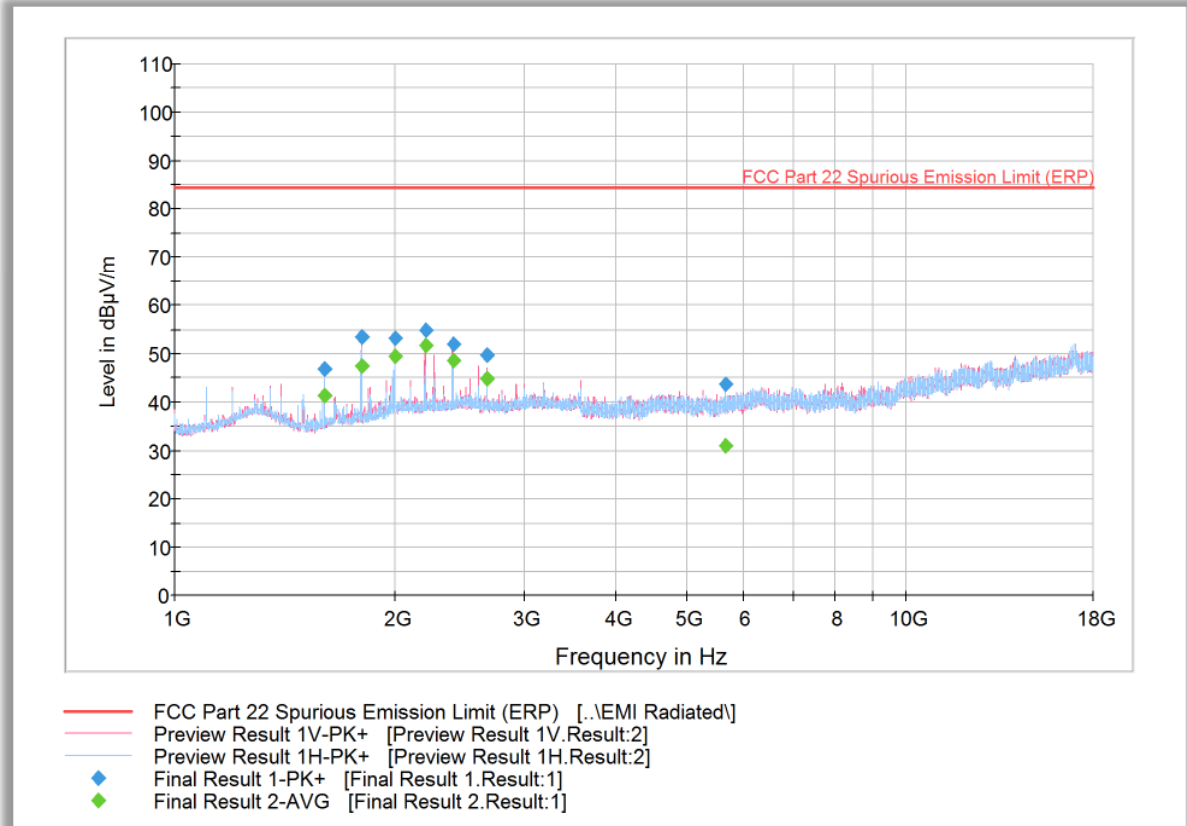
Peak Data

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1599.933333	46.9	1000.0	1000.000	206.0	H	269.0	-5.8	37.4	84.4
1800.166667	52.8	1000.0	1000.000	300.0	V	-4.0	-3.4	31.6	84.4
1999.966667	53.2	1000.0	1000.000	250.0	H	226.0	-2.2	31.1	84.4
2199.833333	53.6	1000.0	1000.000	117.0	V	167.0	-1.6	30.8	84.4
2399.866667	52.6	1000.0	1000.000	100.0	V	307.0	-1.1	31.7	84.4
2666.766667	49.3	1000.0	1000.000	100.0	V	184.0	-0.2	35.1	84.4
6242.266667	45.5	1000.0	1000.000	123.0	H	7.0	6.3	38.9	84.4

Average Data

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1599.933333	41.4	1000.0	1000.000	206.0	H	269.0	-5.8	43.0	84.4
1800.166667	46.6	1000.0	1000.000	300.0	V	-4.0	-3.4	37.8	84.4
1999.966667	49.6	1000.0	1000.000	250.0	H	226.0	-2.2	34.8	84.4
2199.833333	50.1	1000.0	1000.000	117.0	V	167.0	-1.6	34.2	84.4
2399.866667	49.0	1000.0	1000.000	100.0	V	307.0	-1.1	35.4	84.4
2666.766667	44.8	1000.0	1000.000	100.0	V	184.0	-0.2	39.6	84.4
6242.266667	32.4	1000.0	1000.000	123.0	H	7.0	6.3	52.0	84.4

2.8.20 Test Results Above 1GHz (LTE Band 5 Downlink and Uplink Worst Case Configuration) - 15MHz Bandwidth High Channel



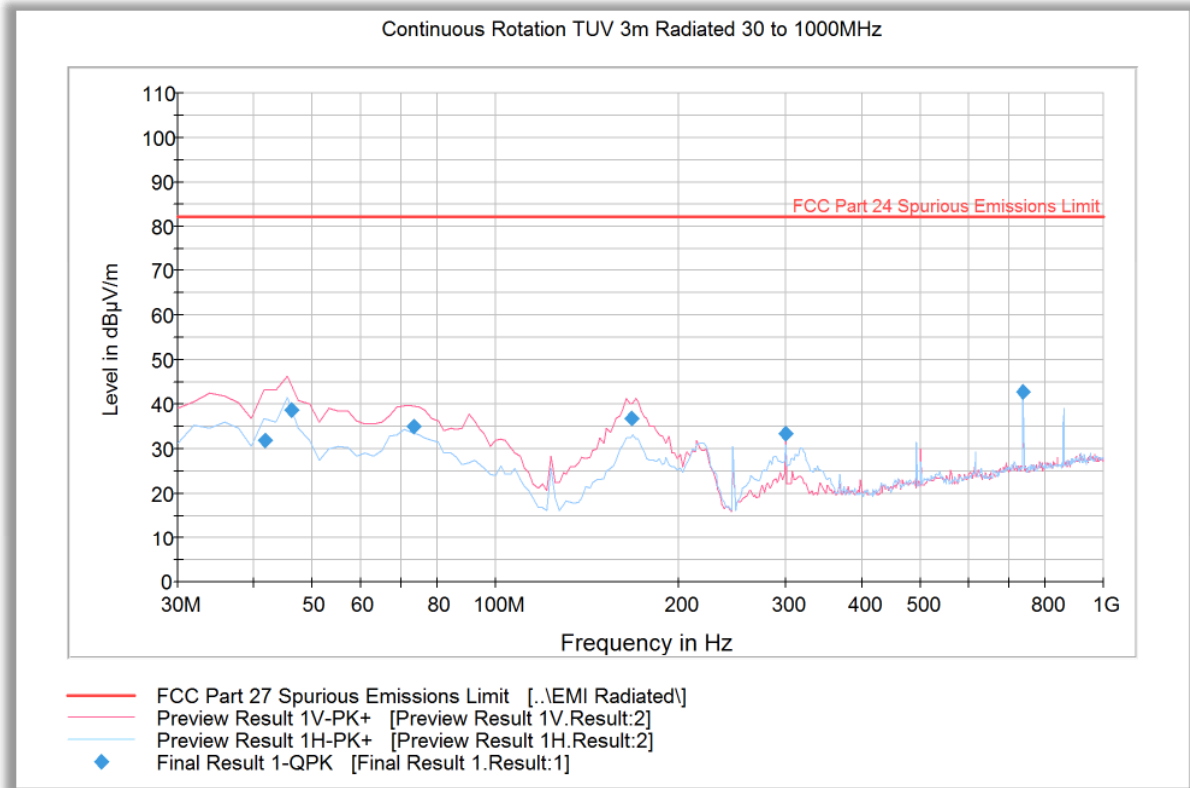
Peak Data

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1599.900000	46.8	1000.0	1000.000	206.0	H	269.0	-5.8	37.6	84.4
1799.800000	53.3	1000.0	1000.000	180.0	V	28.0	-3.4	31.0	84.4
1999.800000	53.0	1000.0	1000.000	117.0	V	195.0	-2.2	31.4	84.4
2199.833333	54.8	1000.0	1000.000	117.0	V	171.0	-1.6	29.6	84.4
2399.866667	52.0	1000.0	1000.000	123.0	V	188.0	-1.1	32.4	84.4
2666.766667	49.6	1000.0	1000.000	100.0	V	186.0	-0.2	34.8	84.4
5654.800000	43.7	1000.0	1000.000	143.0	H	67.0	5.0	40.7	84.4

Average Data

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1599.900000	41.2	1000.0	1000.000	206.0	H	269.0	-5.8	43.2	84.4
1799.800000	47.3	1000.0	1000.000	180.0	V	28.0	-3.4	37.1	84.4
1999.800000	49.3	1000.0	1000.000	117.0	V	195.0	-2.2	35.1	84.4
2199.833333	51.6	1000.0	1000.000	117.0	V	171.0	-1.6	32.8	84.4
2399.866667	48.6	1000.0	1000.000	123.0	V	188.0	-1.1	35.8	84.4
2666.766667	44.8	1000.0	1000.000	100.0	V	186.0	-0.2	39.6	84.4
5654.800000	30.9	1000.0	1000.000	143.0	H	67.0	5.0	53.5	84.4

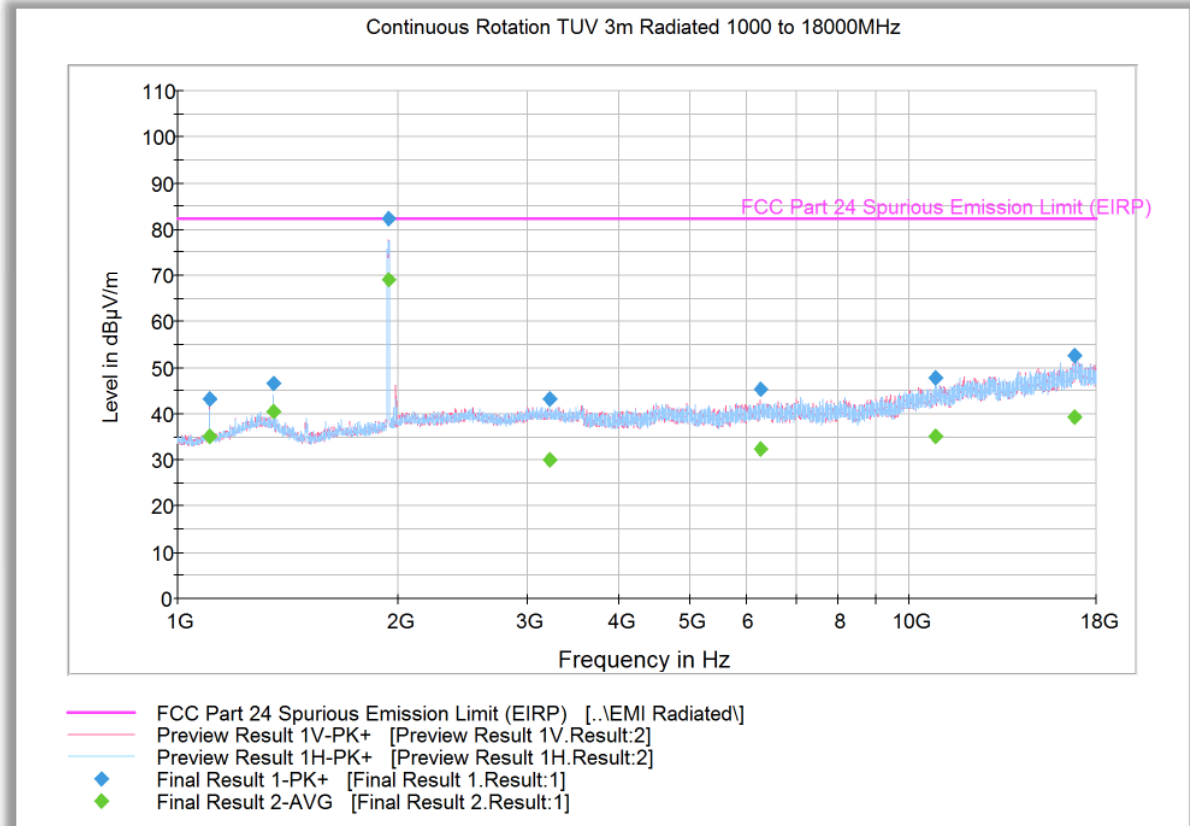
2.8.21 Test Results Below 1GHz (LTE Band 25 Downlink Worst Case Configuration) - 20MHz Bandwidth Middle Channel



Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
41.783327	31.9	1000.0	120.000	100.0	V	127.0	-12.6	50.3	82.2
46.071102	38.6	1000.0	120.000	108.0	V	271.0	-13.9	43.6	82.2
73.205531	34.9	1000.0	120.000	150.0	V	259.0	-17.2	47.3	82.2
167.199920	36.8	1000.0	120.000	100.0	V	69.0	-11.8	45.4	82.2
300.000401	33.3	1000.0	120.000	100.0	V	330.0	-6.9	48.9	82.2
737.295150	43.0	1000.0	120.000	100.0	H	8.0	2.7	39.2	82.2
41.783327	31.9	1000.0	120.000	100.0	V	127.0	-12.6	50.3	82.2

2.8.22 Test Results Above 1GHz (LTE Band 25 Downlink Worst Case Configuration) - 20MHz Bandwidth Low Channel



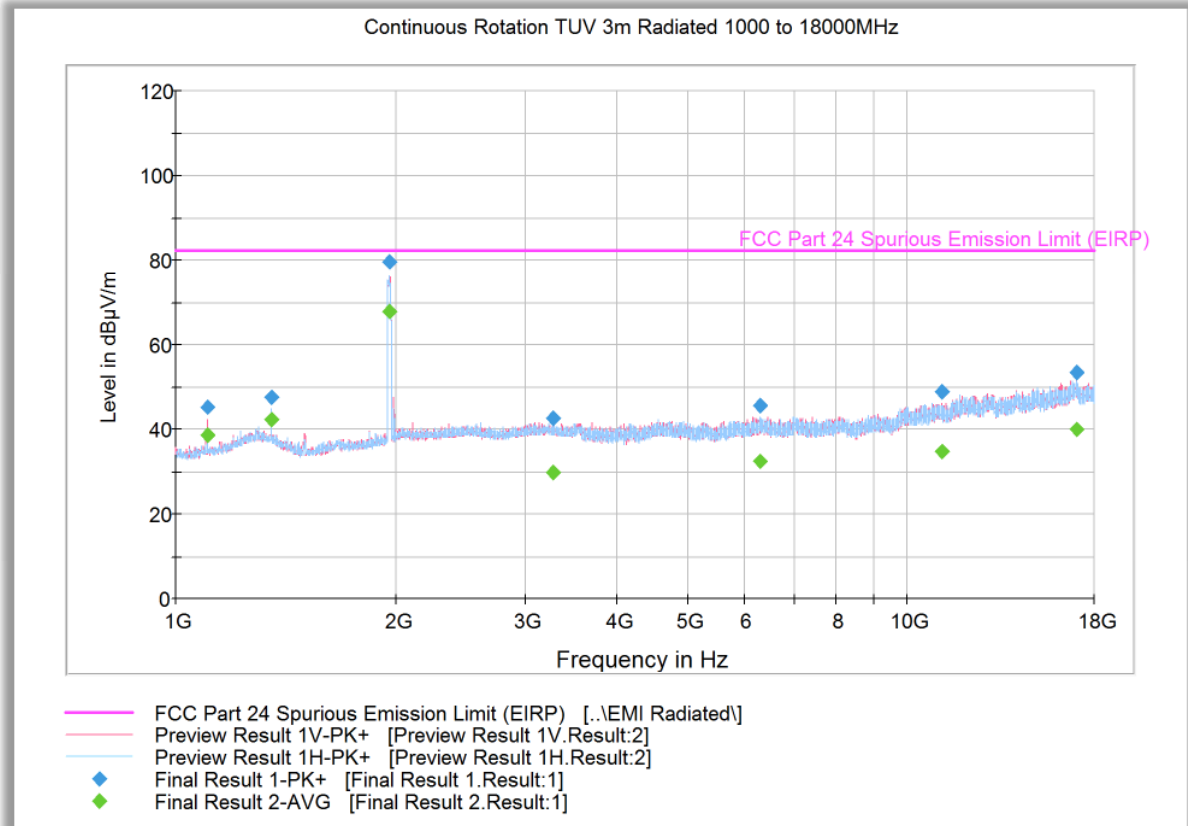
Peak Data

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1105.766667	43.3	1000.0	1000.000	213.4	V	203.0	-6.9	38.9	82.2
1351.933333	46.7	1000.0	1000.000	151.6	H	4.0	-5.1	35.5	82.2
1945.566667	82.2	1000.0	1000.000	213.4	V	191.0	-2.4	Fundamental Frequency	82.2
3220.900000	43.2	1000.0	1000.000	343.1	H	39.0	1.1	39.0	82.2
6247.166667	45.5	1000.0	1000.000	250.5	V	294.0	6.3	36.7	82.2
10839.633333	47.9	1000.0	1000.000	151.6	H	98.0	11.8	34.3	82.2
16816.600000	52.6	1000.0	1000.000	113.7	V	148.0	17.9	29.6	82.2

Average Data

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1105.766667	35.3	1000.0	1000.000	213.4	V	203.0	-6.9	46.9	82.2
1351.933333	40.5	1000.0	1000.000	151.6	H	4.0	-5.1	41.8	82.2
1945.566667	69.1	1000.0	1000.000	213.4	V	191.0	-2.4	Fundamental Frequency	82.2
3220.900000	30.0	1000.0	1000.000	343.1	H	39.0	1.1	52.3	82.2
6247.166667	32.4	1000.0	1000.000	250.5	V	294.0	6.3	49.8	82.2
10839.633333	35.3	1000.0	1000.000	151.6	H	98.0	11.8	46.9	82.2
16816.600000	39.4	1000.0	1000.000	113.7	V	148.0	17.9	42.8	82.2

2.8.23 Test Results Above 1GHz (LTE Band 25 Downlink Worst Case Configuration) - 20MHz Bandwidth Middle Channel



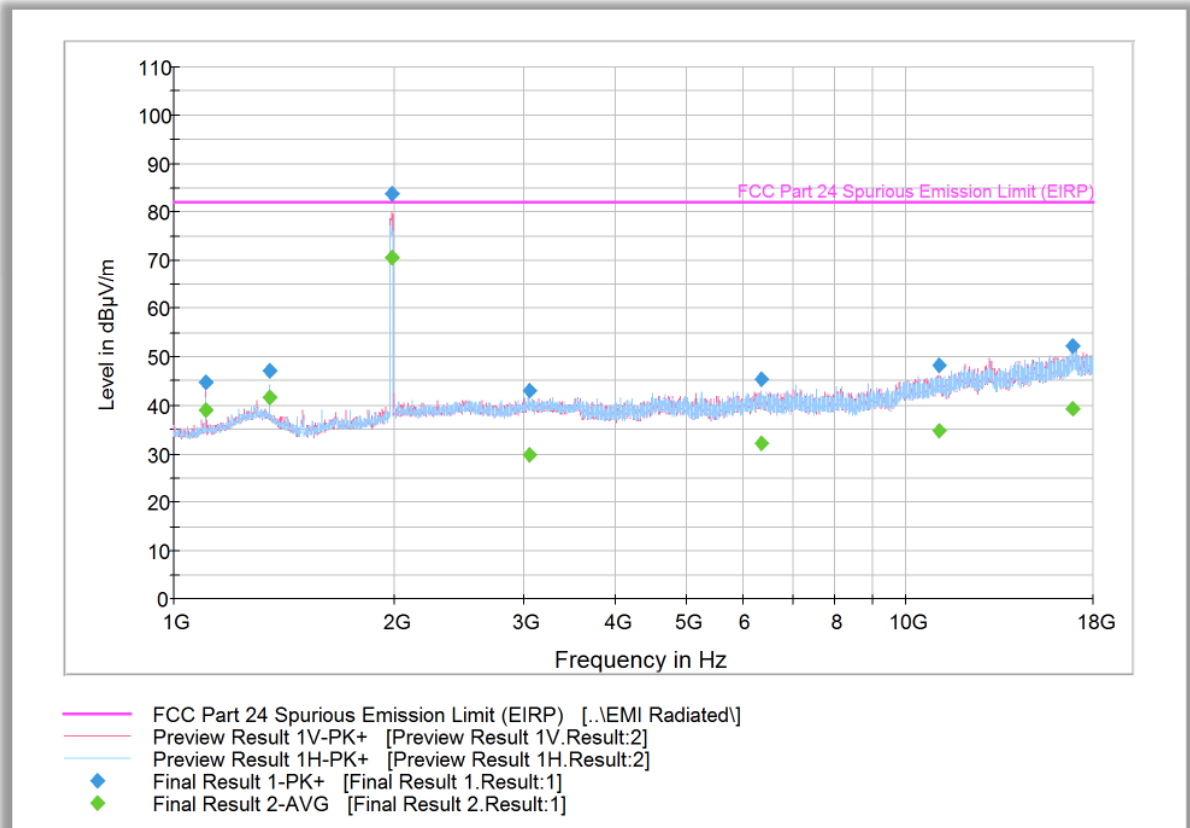
Peak Data

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1105.800000	45.3	1000.0	1000.000	290.2	V	205.0	-6.9	37.0	82.2
1351.733333	47.4	1000.0	1000.000	194.5	H	9.0	-5.1	34.8	82.2
1959.166667	79.7	1000.0	1000.000	147.7	H	150.0	-2.3	Fundamental Frequency	
3280.266667	42.6	1000.0	1000.000	240.4	V	12.0	1.0	39.7	82.2
6274.900000	45.7	1000.0	1000.000	280.2	H	-19.0	6.3	36.5	82.2
11114.000000	48.7	1000.0	1000.000	103.7	V	135.0	12.3	33.5	82.2
16979.566667	53.3	1000.0	1000.000	347.1	V	228.0	17.9	28.9	82.2

Average Data

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1105.800000	38.6	1000.0	1000.000	290.2	V	205.0	-6.9	43.6	82.2
1351.733333	42.1	1000.0	1000.000	194.5	H	9.0	-5.1	40.1	82.2
1959.166667	67.9	1000.0	1000.000	147.7	H	150.0	-2.3	Fundamental Frequency	
3280.266667	29.8	1000.0	1000.000	240.4	V	12.0	1.0	52.4	82.2
6274.900000	32.5	1000.0	1000.000	280.2	H	-19.0	6.3	49.8	82.2
11114.000000	34.8	1000.0	1000.000	103.7	V	135.0	12.3	47.4	82.2
16979.566667	40.1	1000.0	1000.000	347.1	V	228.0	17.9	42.1	82.2

2.8.24 Test Results Above 1GHz (LTE Band 25 Downlink Worst Case Configuration) - 20MHz Bandwidth High Channel



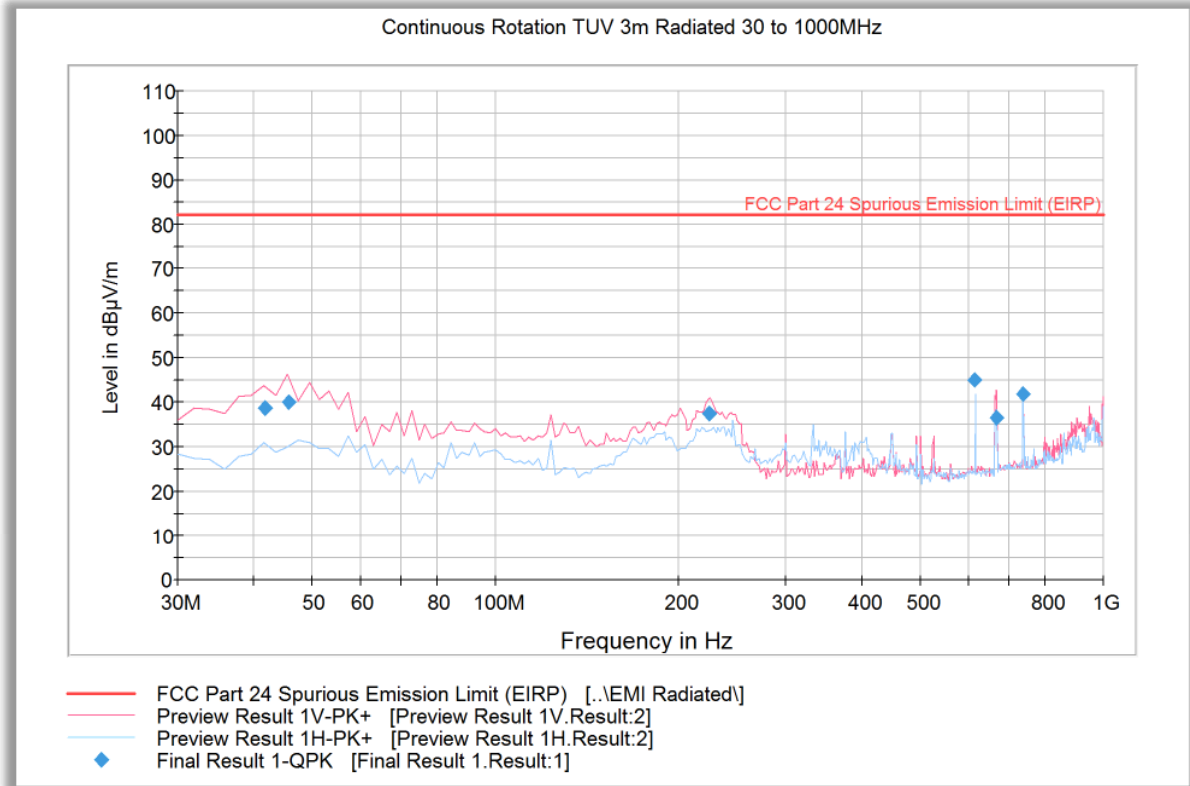
Peak Data

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1105.766667	44.7	1000.0	1000.000	250.5	H	236.0	-6.9	37.6	82.2
1351.533333	47.2	1000.0	1000.000	151.6	H	6.0	-5.1	35.0	82.2
1986.566667	83.9	1000.0	1000.000	252.3	V	183.0	-2.3	Fundamental Frequency	
3056.000000	43.0	1000.0	1000.000	195.5	H	290.0	1.0	39.3	82.2
6330.266667	45.3	1000.0	1000.000	152.2	H	125.0	6.3	36.9	82.2
11067.966667	48.2	1000.0	1000.000	265.3	V	223.0	12.0	34.1	82.2
16859.733333	52.4	1000.0	1000.000	327.2	H	354.0	18.0	29.8	82.2

Average Data

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1105.766667	38.9	1000.0	1000.000	250.5	H	236.0	-6.9	43.3	82.2
1351.533333	41.7	1000.0	1000.000	151.6	H	6.0	-5.1	40.5	82.2
1986.566667	70.6	1000.0	1000.000	252.3	V	183.0	-2.3	Fundamental Frequency	
3056.000000	30.0	1000.0	1000.000	195.5	H	290.0	1.0	52.3	82.2
6330.266667	32.2	1000.0	1000.000	152.2	H	125.0	6.3	50.0	82.2
11067.966667	34.8	1000.0	1000.000	265.3	V	223.0	12.0	47.4	82.2
16859.733333	39.3	1000.0	1000.000	327.2	H	354.0	18.0	42.9	82.2

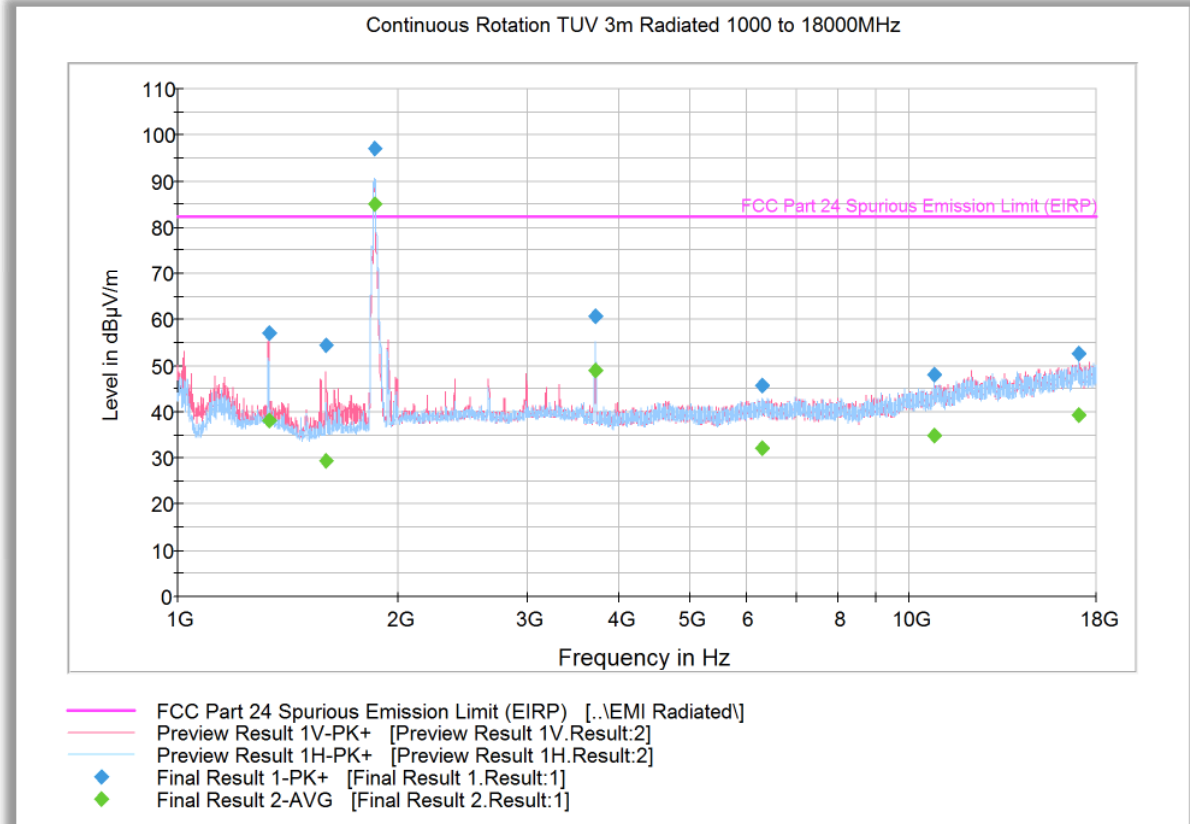
2.8.25 Test Results Below 1GHz (LTE Band 25 Uplink Worst Case Configuration) - 20MHz Bandwidth High Channel



Quasi Peak Data

Frequency (MHz)	QuasiPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
41.783327	38.8	1000.0	120.000	100.0	V	-15.0	-12.6	43.5	82.2
45.671102	40.0	1000.0	120.000	100.0	V	296.0	-13.7	42.2	82.2
224.292665	37.4	1000.0	120.000	100.0	V	218.0	-9.5	44.8	82.2
614.390220	45.0	1000.0	120.000	121.0	H	301.0	0.9	37.2	82.2
666.115190	36.6	1000.0	120.000	109.0	V	265.0	1.4	45.6	82.2
737.255150	41.9	1000.0	120.000	177.0	V	159.0	2.7	40.3	82.2

2.8.26 Test Results Above 1GHz (LTE Band 25 Uplink Worst Case Configuration) - 20MHz Bandwidth Low Channel



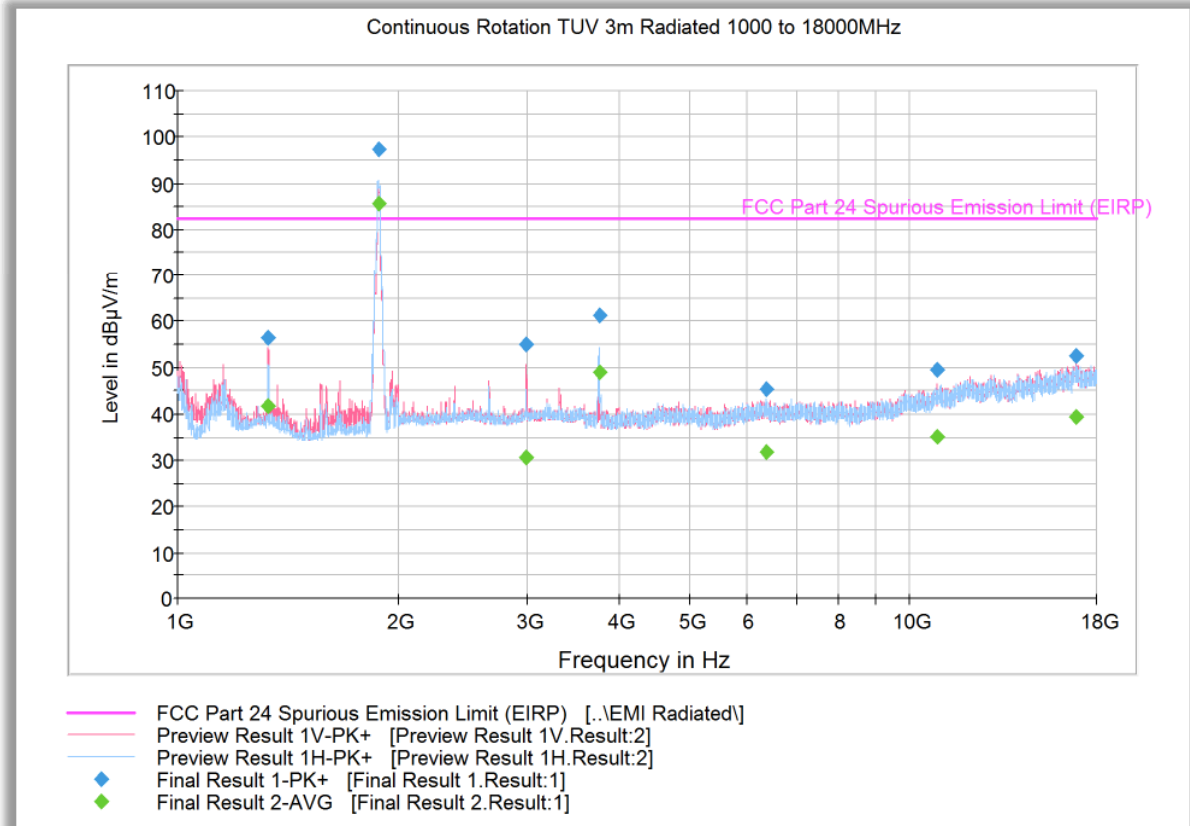
Peak Data

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1332.866667	57.0	1000.0	1000.000	199.5	V	90.0	-5.1	25.3	82.2
1594.566667	54.5	1000.0	1000.000	103.7	V	274.0	-5.8	27.8	82.2
1862.700000	97.2	1000.0	1000.000	200.5	H	124.0	-2.8	Fundamental Frequency	82.2
3720.933333	60.8	1000.0	1000.000	195.5	H	122.0	2.0	21.4	82.2
6293.366667	45.8	1000.0	1000.000	352.7	H	185.0	6.2	36.4	82.2
10817.066667	48.0	1000.0	1000.000	312.2	H	20.0	11.8	34.3	82.2
17026.100000	52.7	1000.0	1000.000	317.2	H	329.0	17.8	29.5	82.2

Average Data

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1332.866667	38.1	1000.0	1000.000	199.5	V	90.0	-5.1	44.1	82.2
1594.566667	29.5	1000.0	1000.000	103.7	V	274.0	-5.8	52.7	82.2
1862.700000	85.0	1000.0	1000.000	200.5	H	124.0	-2.8	Fundamental Frequency	82.2
3720.933333	48.8	1000.0	1000.000	195.5	H	122.0	2.0	33.4	82.2
6293.366667	32.2	1000.0	1000.000	352.7	H	185.0	6.2	50.0	82.2
10817.066667	35.0	1000.0	1000.000	312.2	H	20.0	11.8	47.2	82.2
17026.100000	39.3	1000.0	1000.000	317.2	H	329.0	17.8	42.9	82.2

2.8.27 Test Results Above 1GHz (LTE Band 25 Uplink Worst Case Configuration) - 20MHz Bandwidth Middle Channel



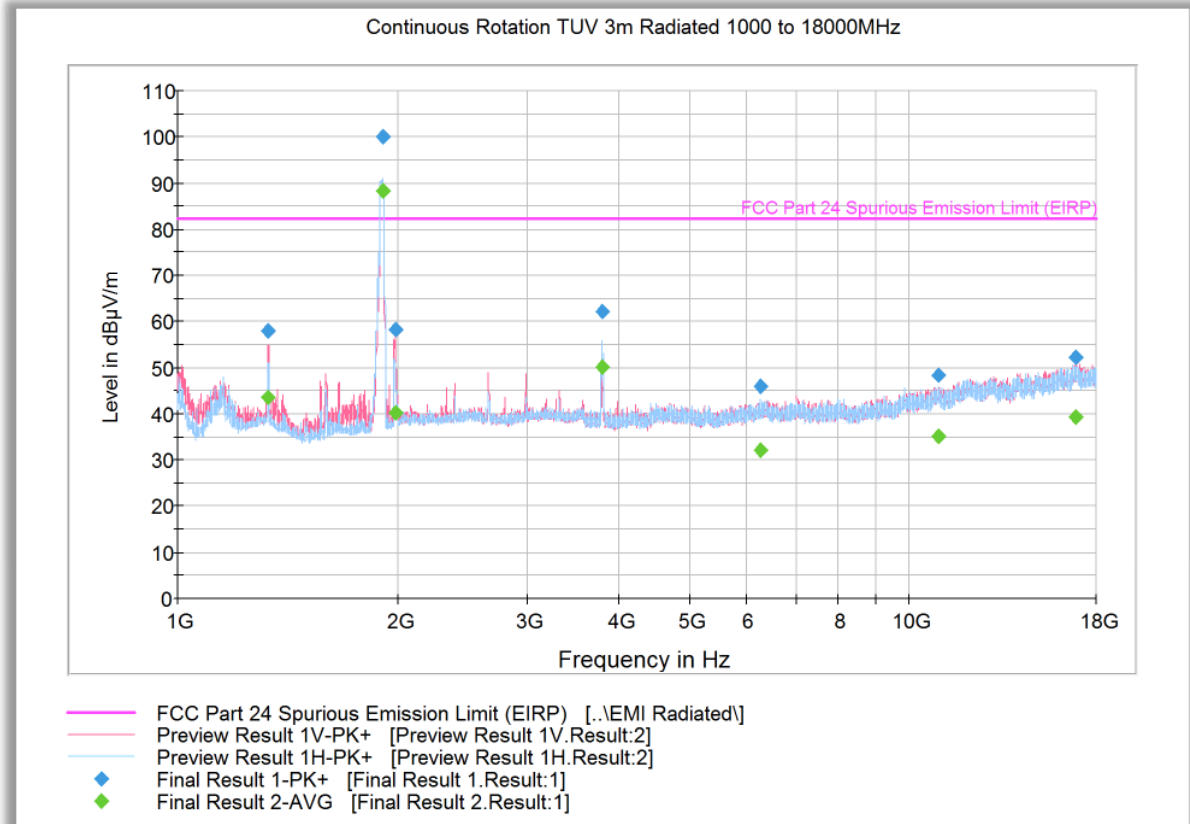
Peak Data

Frequency (MHz)	MaxPeak (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1330.033333	56.4	1000.0	1000.000	194.5	V	89.0	-5.1	25.8	82.2
1882.500000	97.3	1000.0	1000.000	199.5	H	238.0	-2.7	Fundamental Frequency	
2993.333333	54.9	1000.0	1000.000	152.2	V	268.0	0.8	27.3	82.2
3764.966667	61.2	1000.0	1000.000	190.5	H	122.0	2.0	21.0	82.2
6379.900000	45.3	1000.0	1000.000	146.7	H	47.0	6.4	36.9	82.2
10907.566667	49.5	1000.0	1000.000	127.7	V	308.0	11.9	32.8	82.2
16875.566667	52.7	1000.0	1000.000	120.7	V	332.0	18.0	29.5	82.2

Average Data

Frequency (MHz)	Average (dBµV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBµV/m)
1330.033333	41.7	1000.0	1000.000	194.5	V	89.0	-5.1	40.5	82.2
1882.500000	85.7	1000.0	1000.000	199.5	H	238.0	-2.7	Fundamental Frequency	
2993.333333	30.8	1000.0	1000.000	152.2	V	268.0	0.8	51.5	82.2
3764.966667	49.1	1000.0	1000.000	190.5	H	122.0	2.0	33.1	82.2
6379.900000	31.9	1000.0	1000.000	146.7	H	47.0	6.4	50.4	82.2
10907.566667	35.0	1000.0	1000.000	127.7	V	308.0	11.9	47.2	82.2
16875.566667	39.4	1000.0	1000.000	120.7	V	332.0	18.0	42.9	82.2

2.8.28 Test Results Above 1GHz (LTE Band 25 Uplink Worst Case Configuration) - 20MHz Bandwidth High Channel



Peak Data

Frequency (MHz)	MaxPeak (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1330.200000	58.0	1000.0	1000.000	198.5	V	92.0	-5.1	24.2	82.2
1904.766667	100.1	1000.0	1000.000	190.5	H	125.0	-2.5	Fundamental Frequency	
1985.966667	58.5	1000.0	1000.000	155.2	V	275.0	-2.3	23.8	82.2
3809.200000	62.2	1000.0	1000.000	127.7	H	116.0	2.2	20.0	82.2
6261.333333	45.9	1000.0	1000.000	143.7	H	354.0	6.3	36.4	82.2
10956.000000	48.3	1000.0	1000.000	142.7	H	80.0	11.9	33.9	82.2
16849.633333	52.2	1000.0	1000.000	181.6	H	318.0	18.0	30.0	82.2

Average Data

Frequency (MHz)	Average (dBμV/m)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Polarization	Azimuth (deg)	Corr. (dB)	Margin (dB)	Limit (dBμV/m)
1330.200000	43.5	1000.0	1000.000	198.5	V	92.0	-5.1	38.7	82.2
1904.766667	88.4	1000.0	1000.000	190.5	H	125.0	-2.5	Fundamental Frequency	
1985.966667	40.1	1000.0	1000.000	155.2	V	275.0	-2.3	42.1	82.2
3809.200000	50.2	1000.0	1000.000	127.7	H	116.0	2.2	32.0	82.2
6261.333333	32.3	1000.0	1000.000	143.7	H	354.0	6.3	49.9	82.2
10956.000000	35.0	1000.0	1000.000	142.7	H	80.0	11.9	47.2	82.2
16849.633333	39.3	1000.0	1000.000	181.6	H	318.0	18.0	42.9	82.2

2.9 FREQUENCY STABILITY

2.9.1 Specification Reference

FCC 47 CFR Part 2, Clause 2.1055
 FCC 47 CFR Part 22, Clause 22.355
 FCC 47 CFR Part 24, Clause 24.235
 RSS-132, Clause 5.3
 RSS-133, Clause 6.3

2.9.2 Standard Applicable

FCC Part 22.355:
 The carrier frequency of each transmitter in the Public Mobile Services must be maintained within the tolerances given in Table C-1 of this section.

TABLE C-1—FREQUENCY TOLERANCE FOR TRANSMITTERS IN THE PUBLIC MOBILE SERVICES

Frequency range (MHz)	Base, fixed (ppm)	Mobile >3 watts (ppm)	Mobile ≤3 watts (ppm)
25 to 50	20.0	20.0	50.0
50 to 450	5.0	5.0	50.0
450 to 512	2.5	5.0	5.0
821 to 896	1.5	2.5	2.5
928 to 929	5.0	n/a	n/a
929 to 960	1.5	n/a	n/a
2110 to 2220	10.0	n/a	n/a

FCC Part 24.235:
 The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

RSS-132:
 The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations and ± 1.5 ppm for base stations.

RSS-133
 The carrier frequency shall not depart from the reference frequency, in excess of ± 2.5 ppm for mobile stations and ± 1.0 ppm for base stations.

2.9.3 Equipment Under Test and Modification State

Serial No: 370920000139 (NU) and 371929000156 (CU) / Test Configuration A and B

2.9.4 Date of Test/Initial of test personnel who performed the test

August 20, 21, September 10 and October 17, 2019/XYZ



2.9.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.9.6 Environmental Conditions

Test performed at TÜV SÜD America Inc. Rancho Bernardo facility.

Ambient Temperature	21.7 - 25.7°C
Relative Humidity	23.2 - 58.1%
ATM Pressure	98.5 - 99.5kPa

2.9.7 Additional Observations

- This is a conducted test.
- The Unit was operated at 120 VAC nominal voltage and was placed in the temperature chamber for the series of temperature variation evaluations performed
- The Temperature was reduced to -30°C and allowed to sit for 1 hour to allow the equipment and chamber temperature to stabilize. The measurements on both downlink and uplink were then performed. The temperature was then increased by 10°C steps and allowed to settle before taking the next set of measurements.
- Voltage variation was also performed at 85% and 115% of the nominal voltage.
- EUT was injected a CW signal from a Signal Generator and maximum frequency error was monitored using the spectrum analyser.
- 5MHz bandwidth Middle Channel was tested as the representative configuration.

2.9.8 Test Results Summary

WCDMA Band 5 Downlink			
<i>Voltage (VAC)</i>	<i>Temperature (°C)</i>	<i>Frequency Deviation (Hz/ppm)</i>	<i>Limit (ppm)</i>
120	-30	0 / 0	1.5
	-20	0 / 0	1.5
	-10	0 / 0	1.5
	0	0 / 0	1.5
	+10	0 / 0	1.5
	+20	0 / 0	1.5
	+30	0 / 0	1.5
	+40	0 / 0	1.5
	+50	0 / 0	1.5

WCDMA Band 5 Downlink			
<i>Temperature (°C)</i>	<i>Voltage (VAC)</i>	<i>Frequency Deviation (Hz/ppm)</i>	<i>Limit (ppm)</i>
20	102	0 / 0	1.5
	138	0 / 0	1.5

WCDMA Band 5 Uplink			
<i>Voltage (VAC)</i>	<i>Temperature (°C)</i>	<i>Frequency Deviation (Hz/ppm)</i>	<i>Limit (ppm)</i>
120	-30	0 / 0	1.5
	-20	0 / 0	1.5
	-10	0 / 0	1.5
	0	0 / 0	1.5
	+10	0 / 0	1.5
	+20	0 / 0	1.5
	+30	0 / 0	1.5
	+40	0 / 0	1.5
	+50	0 / 0	1.5

WCDMA Band 5 Uplink			
<i>Temperature (°C)</i>	<i>Voltage (VAC)</i>	<i>Frequency Deviation (Hz/ppm)</i>	<i>Limit (ppm)</i>
20	102	0 / 0	1.5
	138	0 / 0	1.5

LTE Band 5 Downlink			
<i>Voltage (VAC)</i>	<i>Temperature (°C)</i>	<i>Frequency Deviation (Hz/ppm)</i>	<i>Limit (ppm)</i>
120	-30	0 / 0	1.5
	-20	0 / 0	1.5
	-10	0 / 0	1.5
	0	0 / 0	1.5
	+10	0 / 0	1.5
	+20	0 / 0	1.5
	+30	0 / 0	1.5
	+40	0 / 0	1.5
	+50	0 / 0	1.5

LTE Band 5 Downlink			
<i>Temperature (°C)</i>	<i>Voltage (VAC)</i>	<i>Frequency Deviation (Hz/ppm)</i>	<i>Limit (ppm)</i>
20	102	0 / 0	1.5
	138	0 / 0	1.5

LTE Band 5 Uplink			
<i>Voltage (VAC)</i>	<i>Temperature (°C)</i>	<i>Frequency Deviation (Hz/ppm)</i>	<i>Limit (ppm)</i>
120	-30	0 / 0	1.5
	-20	0 / 0	1.5
	-10	0 / 0	1.5
	0	0 / 0	1.5
	+10	0 / 0	1.5
	+20	0 / 0	1.5
	+30	0 / 0	1.5
	+40	0 / 0	1.5
	+50	0 / 0	1.5

LTE Band 5 Uplink			
<i>Temperature (°C)</i>	<i>Voltage (VAC)</i>	<i>Frequency Deviation (Hz/ppm)</i>	<i>Limit (ppm)</i>
20	102	0 / 0	1.5
	138	0 / 0	1.5

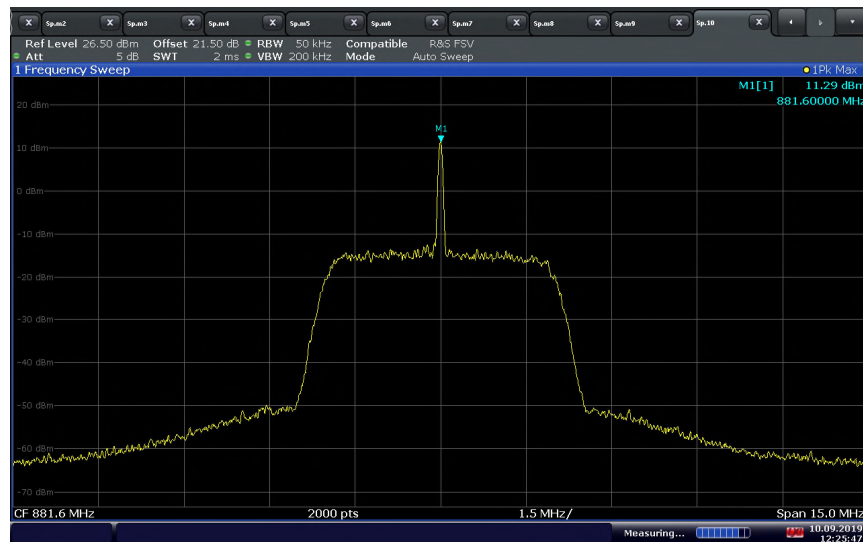
LTE Band 25 Downlink			
<i>Voltage (VAC)</i>	<i>Temperature (°C)</i>	<i>Frequency Deviation (Hz/ppm)</i>	<i>Limit (ppm)</i>
120	-30	0 / 0	1.0
	-20	0 / 0	1.0
	-10	0 / 0	1.0
	0	0 / 0	1.0
	+10	0 / 0	1.0
	+20	0 / 0	1.0
	+30	0 / 0	1.0
	+40	0 / 0	1.0
	+50	0 / 0	1.0

LTE Band 25 Downlink			
<i>Temperature (°C)</i>	<i>Voltage (VAC)</i>	<i>Frequency Deviation (Hz/ppm)</i>	<i>Limit (ppm)</i>
20	102	0 / 0	1.0
	138	0 / 0	1.0

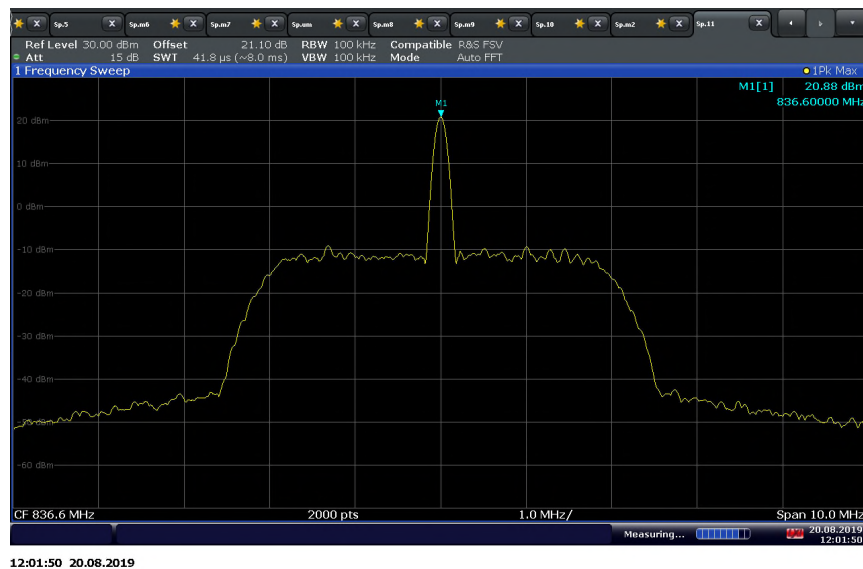
LTE Band 25 Uplink			
<i>Voltage (VAC)</i>	<i>Temperature (°C)</i>	<i>Frequency Deviation (Hz/ppm)</i>	<i>Limit (ppm)</i>
120	-30	0 / 0	1.0
	-20	0 / 0	1.0
	-10	0 / 0	1.0
	0	0 / 0	1.0
	+10	0 / 0	1.0
	+20	0 / 0	1.0
	+30	0 / 0	1.0
	+40	0 / 0	1.0
	+50	0 / 0	1.0

LTE Band 25 Uplink			
<i>Temperature (°C)</i>	<i>Voltage (VAC)</i>	<i>Frequency Deviation (Hz/ppm)</i>	<i>Limit (ppm)</i>
20	102	0 / 0	1.0
	138	0 / 0	1.0

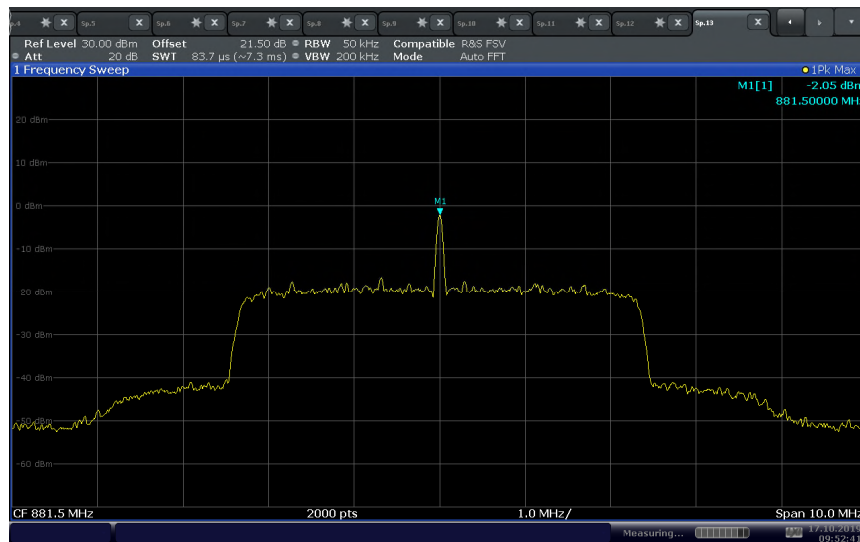
2.9.9 Sample Test Plots



WCDMA B5 Downlink Middle Channel 120VAC @ 20°C

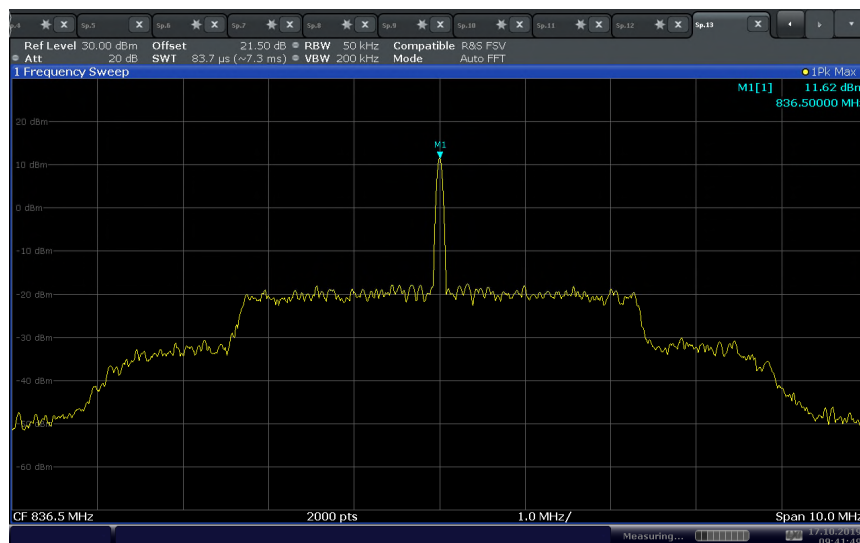


WCDMA B5 Uplink Middle Channel 120VAC @ 20°C



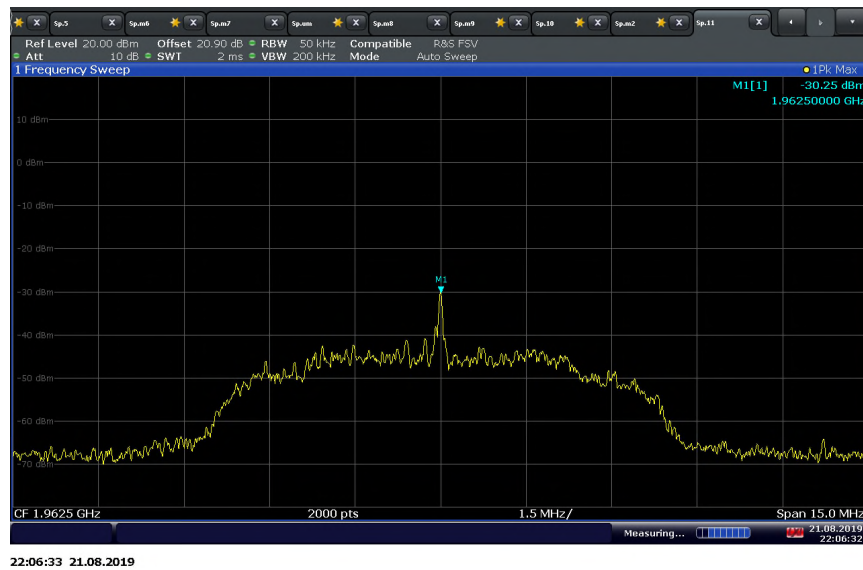
09:52:41 17.10.2019

LTE B5 and Band 26 869-894MHz Downlink Middle Channel 120VAC @ 20°C

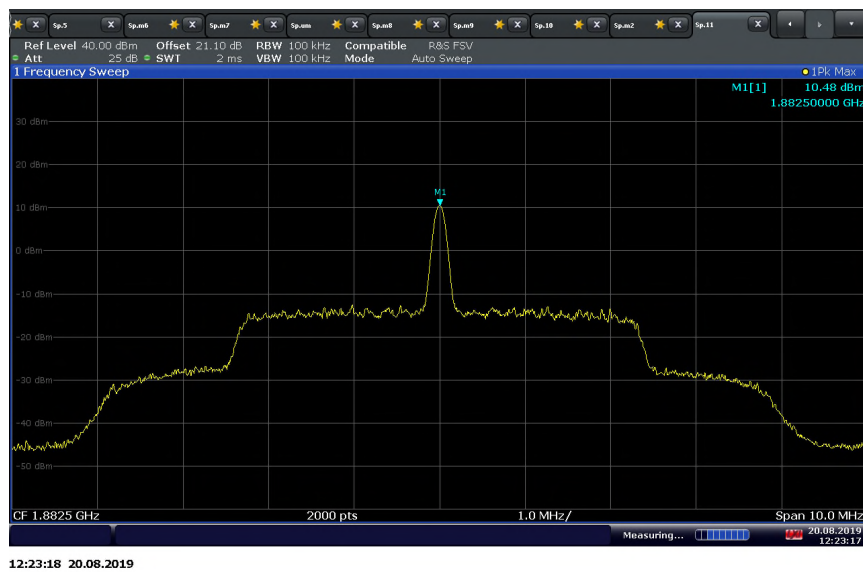


09:41:50 17.10.2019

LTE B5 and Band 26 824-849MHz Uplink Middle Channel 120VAC @ 20°C



LTE B25 Downlink Middle Channel 120VAC @ 20°C



LTE B25 Uplink Middle Channel 120VAC @ 20°C

2.10 POWER LINE CONDUCTED EMISSIONS

2.10.1 Specification Reference

RSS-Gen, Section 8.8

2.10.2 Standard Applicable

An intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN).

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

**Decreases with the logarithm of the frequency.*

2.10.3 Equipment Under Test and Modification State

Serial No: 370920000139 (NU) and 371929000156 (CU) /Test Configuration B

2.10.4 Date of Test/Initial of test personnel who performed the test

August 30, 2019/XYZ

2.10.5 Test Equipment Used

The major items of test equipment used for the above tests are identified in Section 3.1.

2.10.6 Environmental Conditions

Test performed at TÜV SÜD America Inc. Rancho Bernardo facility.

Ambient Temperature	25.2 °C
Relative Humidity	47.3 %
ATM Pressure	98.9 kPa

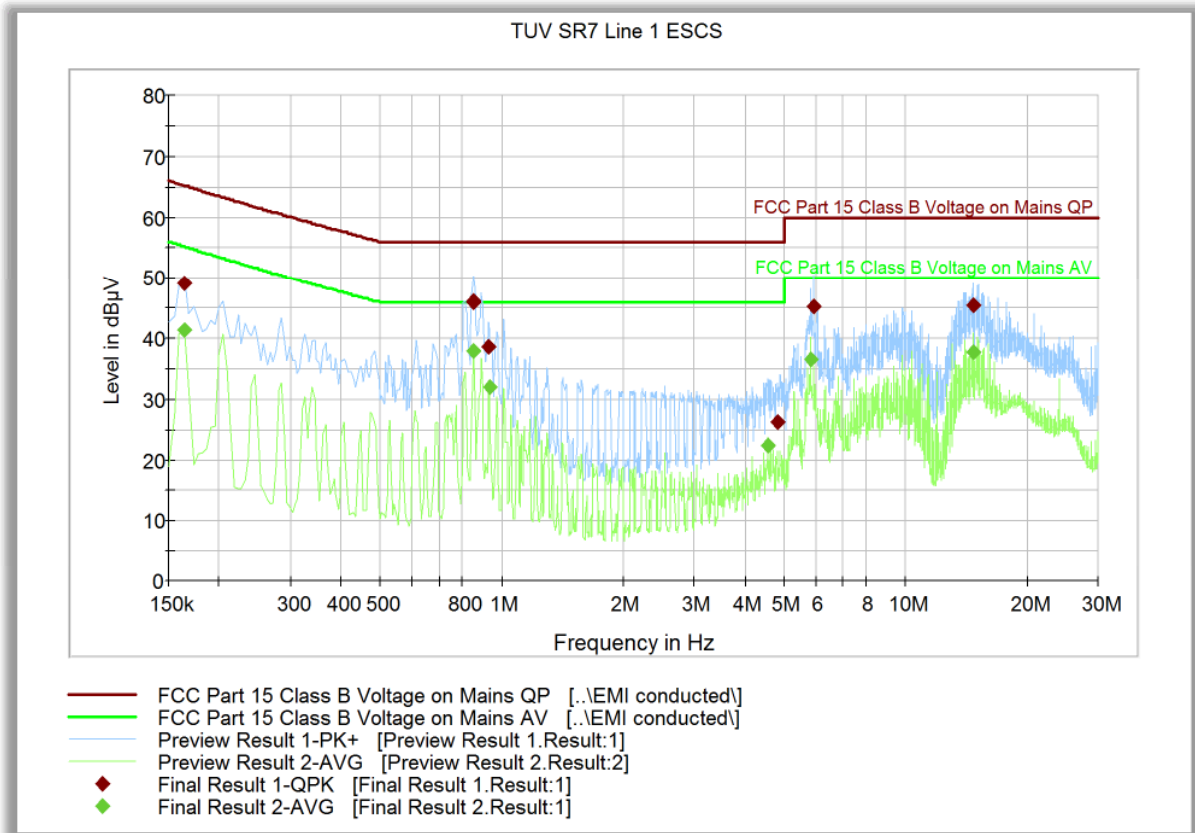
2.10.7 Additional Observations

- EUT verified using input voltage of 120VAC 60Hz.
- There are no significant variations in test results between each operating modes. Only the one worst operation modes for WCDMA and LTE are presented.
- Measurement was done using EMC32 automated software. Reported level is the actual level with all the correction factors factored in. Correction Factor column is for informational purposes only. See Section 2.10.8 for sample computation.

2.10.8 Sample Computation (Conducted Emission – Quasi Peak)

Measuring equipment raw measurement (db μ V) @ 150kHz			5.5
Correction Factor (dB)	Asset# 8607 (20 dB attenuator)	19.9	20.7
	Asset# 1177 (cable)	0.15	
	Asset# 1176 (cable)	0.35	
	Asset# 7567 (LISN)	0.30	
Reported QuasiPeak Final Measurement (db μ V) @ 150kHz			26.2

2.10.9 Test Results - Conducted Emissions Line 1 – Hot (WCDMA B5 Mode)



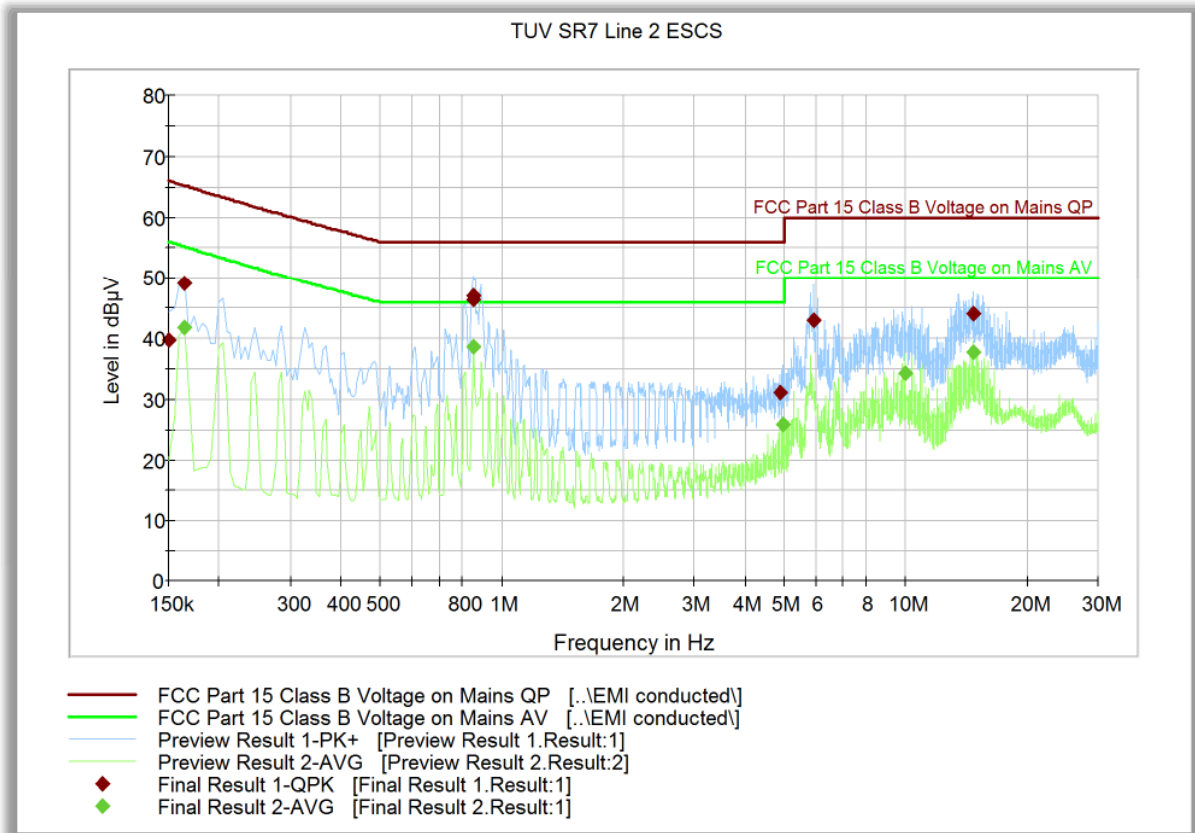
Quasi Peak

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV)
0.163500	49.3	1000.0	9.000	Off	L1	20.1	16.0	65.2
0.847500	46.1	1000.0	9.000	Off	L1	19.9	9.9	56.0
0.928500	38.7	1000.0	9.000	Off	L1	19.9	17.3	56.0
4.821000	26.3	1000.0	9.000	Off	L1	20.5	29.7	56.0
5.905500	45.3	1000.0	9.000	Off	L1	20.4	14.7	60.0
14.653500	45.4	1000.0	9.000	Off	L1	20.5	14.6	60.0

Average

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - Ave (dB)	Limit - Ave (dBµV)
0.163500	41.4	1000.0	9.000	Off	L1	20.1	13.8	55.2
0.852000	38.0	1000.0	9.000	Off	L1	19.9	8.0	46.0
0.933000	32.0	1000.0	9.000	Off	L1	19.9	14.0	46.0
4.546500	22.4	1000.0	9.000	Off	L1	20.4	23.6	46.0
5.824500	36.7	1000.0	9.000	Off	L1	20.4	13.3	50.0
14.653500	37.8	1000.0	9.000	Off	L1	20.5	12.2	50.0

2.10.10 FCC Conducted Emissions Line 2 – Neutral (WCDMA B5 Mode)



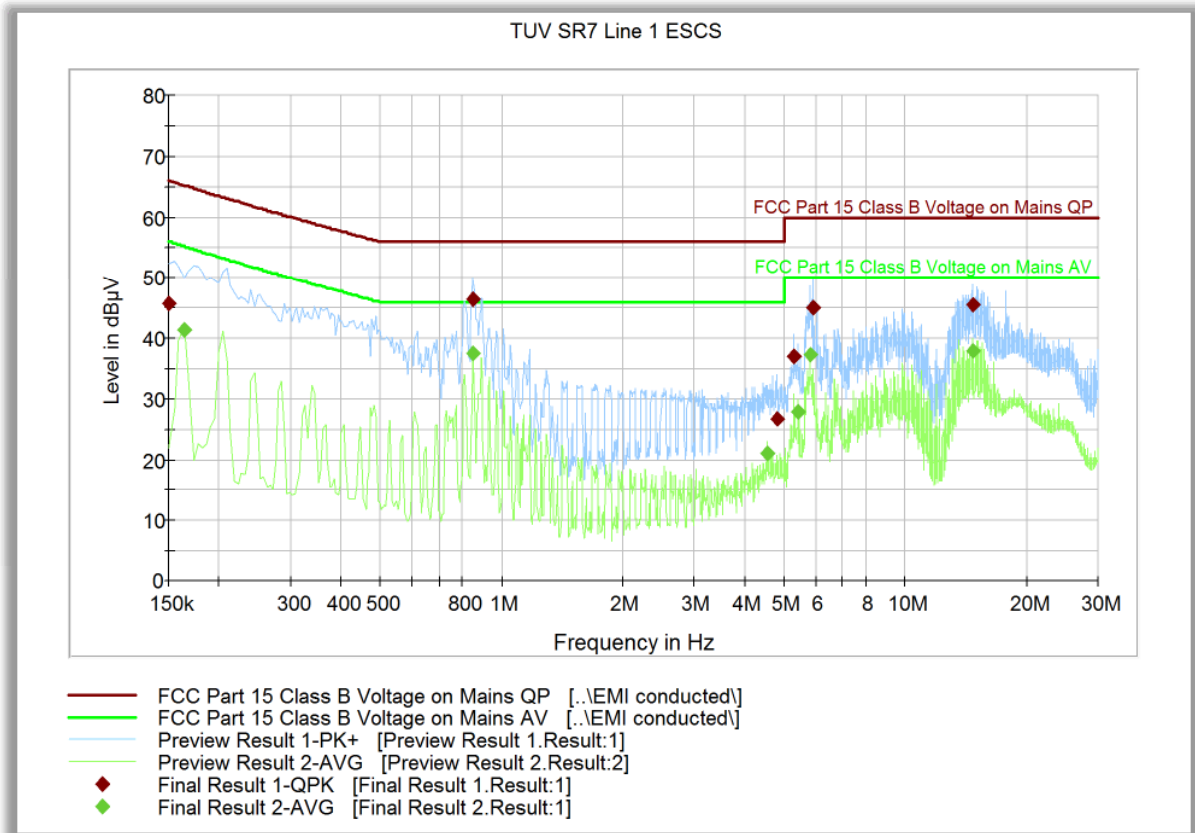
Quasi Peak

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV)
0.150000	39.7	1000.0	9.000	Off	N	20.1	26.3	66.0
0.163500	49.2	1000.0	9.000	Off	N	20.0	16.0	65.2
0.852000	47.0	1000.0	9.000	Off	N	19.8	9.0	56.0
4.902000	31.0	1000.0	9.000	Off	N	20.5	25.0	56.0
5.905500	43.0	1000.0	9.000	Off	N	20.3	17.0	60.0
14.653500	44.2	1000.0	9.000	Off	N	20.6	15.8	60.0

Average

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - Ave (dB)	Limit - Ave (dBµV)
0.163500	41.7	1000.0	9.000	Off	N	20.0	13.5	55.2
0.163500	41.7	1000.0	9.000	Off	N	20.0	13.5	55.2
0.852000	38.6	1000.0	9.000	Off	N	19.8	7.4	46.0
4.983000	25.9	1000.0	9.000	Off	N	20.5	20.1	46.0
9.955500	34.2	1000.0	9.000	Off	N	20.7	15.8	50.0
14.658000	37.7	1000.0	9.000	Off	N	20.6	12.3	50.0

2.10.11 Test Results - Conducted Emissions Line 1 – Hot (the worst case LTE Band)



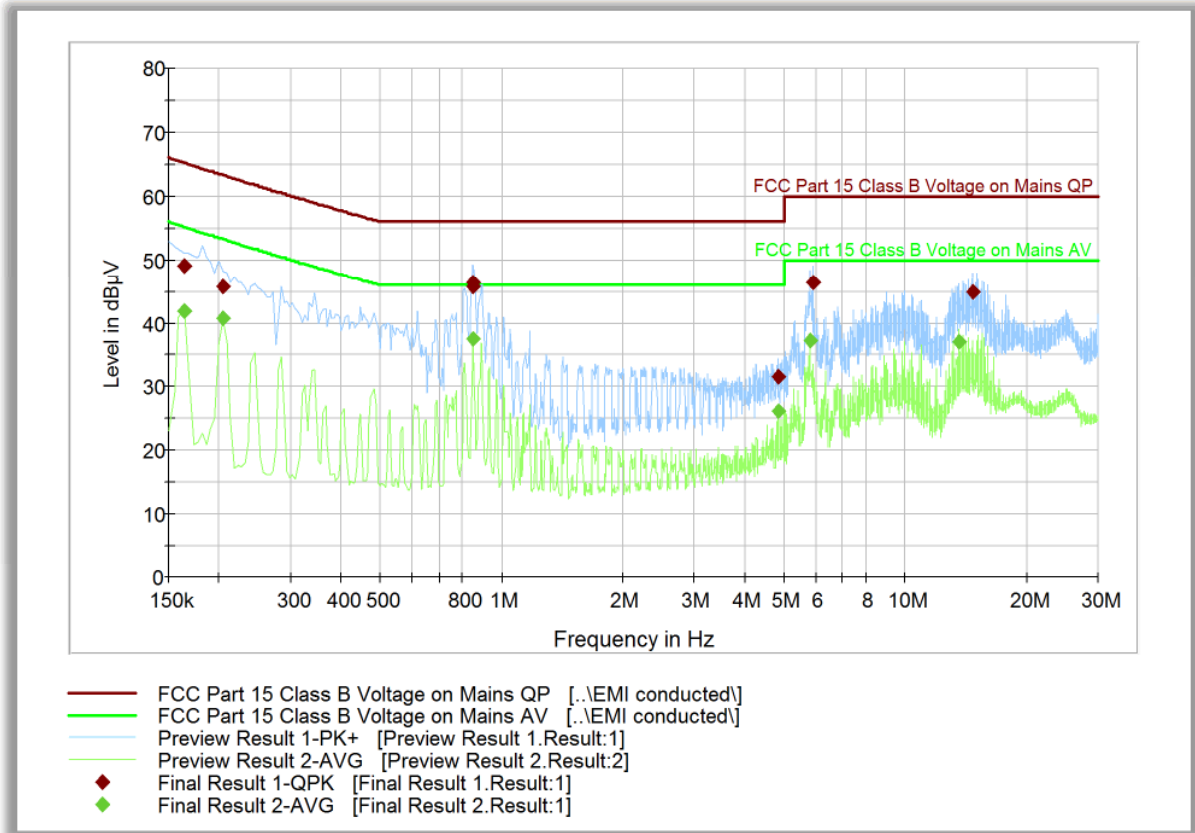
Quasi Peak

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBµV)
0.150000	45.8	1000.0	9.000	Off	L1	20.1	20.2	66.0
0.852000	46.3	1000.0	9.000	Off	L1	19.9	9.7	56.0
4.812000	26.6	1000.0	9.000	Off	L1	20.5	29.4	56.0
5.311500	37.0	1000.0	9.000	Off	L1	20.4	23.0	60.0
5.905500	45.1	1000.0	9.000	Off	L1	20.4	14.9	60.0
14.653500	45.4	1000.0	9.000	Off	L1	20.5	14.6	60.0

Average

Frequency (MHz)	Average (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - Ave (dB)	Limit - Ave (dBµV)
0.163500	41.4	1000.0	9.000	Off	L1	20.1	13.8	55.2
0.852000	37.5	1000.0	9.000	Off	L1	19.9	8.5	46.0
4.551000	21.0	1000.0	9.000	Off	L1	20.4	25.0	46.0
5.415000	27.9	1000.0	9.000	Off	L1	20.4	22.1	50.0
5.824500	37.2	1000.0	9.000	Off	L1	20.4	12.8	50.0
14.653500	38.0	1000.0	9.000	Off	L1	20.5	12.0	50.0

2.10.12 Test Result - Conducted Emissions Line 2 – Neutral (the worst case LTE Band)



Quasi Peak

Frequency (MHz)	QuasiPeak (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - QPK (dB)	Limit - QPK (dBμV)
0.163500	49.0	1000.0	9.000	Off	N	20.0	16.2	65.2
0.204000	45.8	1000.0	9.000	Off	N	19.9	17.5	63.3
0.852000	46.4	1000.0	9.000	Off	N	19.8	9.6	56.0
4.857000	31.6	1000.0	9.000	Off	N	20.5	24.4	56.0
5.905500	46.4	1000.0	9.000	Off	N	20.3	13.6	60.0
14.658000	44.9	1000.0	9.000	Off	N	20.6	15.1	60.0

Average

Frequency (MHz)	Average (dBμV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin - Ave (dB)	Limit - Ave (dBμV)
0.163500	41.9	1000.0	9.000	Off	N	20.0	13.3	55.2
0.204000	40.7	1000.0	9.000	Off	N	19.9	12.5	53.3
0.852000	37.5	1000.0	9.000	Off	N	19.8	8.5	46.0
4.857000	26.1	1000.0	9.000	Off	N	20.5	19.9	46.0
5.820000	37.2	1000.0	9.000	Off	N	20.3	12.8	50.0
13.636500	37.0	1000.0	9.000	Off	N	20.6	13.0	50.0

FCC ID: NU: YETQ44-1234CNU
CU: YETQ41-5ECU
IC: NU: 9298A-Q441234CNU
CU: 9298A-Q415ECU
Report No. 72146075A



SECTION 3

TEST EQUIPMENT USED

3.1 TEST EQUIPMENT USED

List of absolute measuring and other principal items of test equipment.

ID Number (SDGE/SDRB)	Test Equipment	Type	Serial Number	Manufacturer	Cal Date	Cal Due Date
Antenna Conducted Port Setup						
7662	P-Series Power Meter	N1911A	MY45100951	Agilent	06/28/19	06/28/20
7661	50MHz-18GHz Wideband Power Sensor	N1921A	MY45241383	Agilent	07/24/19	07/24/20
7608	Vector Signal Generator	SMBV100A	259021	Rhode & Schwarz	10/10/19	10/10/21
7582	Signal/Spectrum Analyzer	FSW26	101614	Rhode & Schwarz	01/07/19	01/07/20
8825	20dB Attenuator	46-20-34	BK5773	Weinschel Corp.	Verified by 7608 and 7582	
-	10dB Attenuator	VAT-10W2+2W	N/A	MCL	Verified by 7608 and 7582	
Radiated Test Setup						
1033	Bilog Antenna	3142C	00044556	EMCO	09/05/19	09/05/21
7575	Double-ridged waveguide horn antenna	3117	00155511	EMCO	06/16/18	06/16/20
8628	Pre-amplifier	QLJ 01182835-JO	8986002	QuinStar Technologies Inc.	03/07/19	03/07/20
1040	EMI Test Receiver	ESIB40	100292	Rhode & Schwarz	10/11/19	10/11/20
7620	EMI Test Receiver	ESU	100399	Rhode & Schwarz	10/18/19	10/18/20
1016	Pre-amplifier	PAM-0202	187	A.H. Systems, Inc.	03/08/19	03/08/20
Conducted Emissions						
7620	EMI Test Receiver	ESU	100399	Rhode & Schwarz	10/18/19	10/18/20
7567	LISN	FCC-LISN-50-25-2	120304	Fischer Custom Comm.	12/14/17	12/14/19
8822	20dB Attenuator	34-20-34	N/A	MCE / Weinschel	03/05/19	03/06/20
8824	20dB Attenuator	34-20-34	N/A	MCE / Weinschel	03/05/19	03/05/20
Miscellaneous						
43003	True RMS Multimeter	85 III	96880143	Fluke	10/07/19	10/07/20
7579	Temperature Chamber	115	151617	TestQuity	09/09/19	09/09/20
7619	Temp & Humidity Sensor	iBTHX-W	15050268	Omega	06/18/19	06/18/20
	Test Software	EMC32	V8.53	Rhode & Schwarz	N/A	

3.2 MEASUREMENT UNCERTAINTY

For a 95% confidence level, the measurement uncertainties for defined systems are:

3.2.1 Conducted Antenna Port Measurement

	Input Quantity (Contribution) X_i	Value	Prob. Dist.	Divisor	$u_i(x)$	$u_i(x)^2$
1	Receiver reading	0.10 dB	Normal, k=1	1.000	0.10	0.01
2	Cable attenuation	1.00 dB	Normal, k=2	2.000	0.50	0.25
3	Received sinewave accuracy	0.07 dB	Normal, k=2	2.000	0.04	0.00
4	Receiver pulse amplitude	0.00 dB	Rectangular	1.732	0.00	0.00
5	Receiver pulse repetition rate	0.00 dB	Rectangular	1.732	0.00	0.00
6	Noise floor proximity	0.00 dB	Rectangular	1.732	0.00	0.00
7	Frequency interpolation	0.10 dB	Rectangular	1.732	0.06	0.00
8	Mismatch	0.07 dB	U-shaped	1.414	0.05	0.00
Combined standard uncertainty			Normal	0.52	dB	
Expanded uncertainty			Normal, k=2	1.03	dB	

3.2.2 Radiated Emission Measurements (Below 1GHz)

	Input Quantity (Contribution) X_i	Value	Prob. Dist.	Divisor	$u_i(x)$	$u_i(x)^2$
1	Receiver reading	0.10 dB	Normal, k=1	1.000	0.10	0.01
2	Attenuation: antenna-receiver	0.20 dB	Normal, k=2	2.000	0.10	0.01
3	Antenna factor AF	0.75 dB	Normal, k=2	2.000	0.38	0.14
4	Receiver sinewave accuracy	0.45 dB	Normal, k=2	2.000	0.23	0.05
5	Receiver pulse amplitude	1.50 dB	Rectangular	1.732	0.87	0.75
6	Receiver pulse repetition rate	1.50 dB	Rectangular	1.732	0.87	0.75
7	Noise floor proximity	0.50 dB	Rectangular	1.732	0.29	0.08
8	Mismatch: antenna-receiver	0.95 dB	U-shaped	1.414	0.67	0.45
9	AF frequency interpolation	0.30 dB	Rectangular	1.732	0.17	0.03
10	AF height deviations	0.10 dB	Rectangular	1.732	0.06	0.00
11	Directivity difference at 3 m	3.12 dB	Rectangular	1.732	1.80	3.24
12	Phase center location at 3 m	1.00 dB	Rectangular	1.732	0.58	0.33
13	Cross-polarisation	0.90 dB	Rectangular	1.732	0.52	0.27
14	Balance	0.00 dB	Rectangular	1.732	0.00	0.00
15	Site imperfections	3.76 dB	Triangular	2.449	1.54	2.36
16	Separation distance at 3 m	0.30 dB	Rectangular	1.732	0.17	0.03
17	Effect of setup table material	0.77 dB	Rectangular	1.732	0.44	0.20
18	Table height at 3 m	0.10 dB	Normal, k=2	2.000	0.05	0.00
19	Near-field effects	0.00 dB	Triangular	2.449	0.00	0.00
20	Effect of ambient noise on OATS	0.00 dB				0.00
Combined standard uncertainty			Normal	2.95	dB	
Expanded uncertainty			Normal, k=2	5.90	dB	

3.2.3 Radiated Emission Measurements (Above 1GHz)

	Input Quantity (Contribution) X_i	Value	Prob. Dist.	Divisor	$u_i(x)$	$u_i(x)^2$
1	Receiver reading	0.10 dB	Normal, k=1	1.000	0.10	0.01
2	Attenuation: antenna-receiver	0.20 dB	Normal, k=2	2.000	0.10	0.01
3	Antenna factor AF	0.75 dB	Normal, k=2	2.000	0.38	0.14
4	Receiver sinewave accuracy	0.45 dB	Normal, k=2	2.000	0.23	0.05
5	Receiver pulse amplitude	1.50 dB	Rectangular	1.732	0.87	0.75
6	Receiver pulse repetition rate	1.50 dB	Rectangular	1.732	0.87	0.75
7	Noise floor proximity	0.50 dB	Rectangular	1.732	0.29	0.08
8	Mismatch: antenna-receiver	0.95 dB	U-shaped	1.414	0.67	0.45
9	AF frequency interpolation	0.30 dB	Rectangular	1.732	0.17	0.03
10	AF height deviations	0.10 dB	Rectangular	1.732	0.06	0.00
11	Directivity difference at 3 m	3.12 dB	Rectangular	1.732	1.80	3.24
12	Phase center location at 3 m	1.00 dB	Rectangular	1.732	0.58	0.33
13	Cross-polarisation	0.90 dB	Rectangular	1.732	0.52	0.27
14	Balance	0.00 dB	Rectangular	1.732	0.00	0.00
15	Site imperfections	3.25 dB	Triangular	2.449	1.33	1.76
16	Separation distance at 3 m	0.30 dB	Rectangular	1.732	0.17	0.03
17	Effect of setup table material	0.77 dB	Rectangular	1.732	0.44	0.20
18	Table height at 3 m	0.10 dB	Normal, k=2	2.000	0.05	0.00
19	Near-field effects	0.00 dB	Triangular	2.449	0.00	0.00
20	Effect of ambient noise on OATS	0.00 dB				0.00
Combined standard uncertainty			Normal	2.85	dB	
Expanded uncertainty			Normal, k=2	5.70	dB	

3.2.4 Conducted Measurements

	Input Quantity (Contribution) X_i	Value	Prob. Dist.	Divisor	$u_i(x)$	$u_i(x)^2$
1	Receiver reading	0.10 dB	Normal, k=1	1.000	0.10	0.01
2	LISN-receiver attenuation	0.10 dB	Normal, k=2	2.000	0.05	0.00
3	LISN voltage division factor	0.30 dB	Normal, k=2	2.000	0.15	0.02
4	Receiver sinewave accuracy	0.36 dB	Normal, k=2	2.000	0.18	0.03
5	Receiver pulse amplitude	1.50 dB	Rectangular	1.732	0.87	0.75
6	Receiver pulse repetition rate	1.50 dB	Rectangular	1.732	0.87	0.75
7	Noise floor proximity	0.00 dB	Rectangular	1.732	0.00	0.00
8	AMN VDF frequency interpolation	0.10 dB	Rectangular	1.732	0.06	0.00
9	Mismatch	0.07 dB	U-shaped	1.414	0.05	0.00
10	LISN impedance	2.65 dB	Triangular	2.449	1.08	1.17
11	Effect of mains disturbance	0.00 dB			0.00	0.00
12	Effect of the environment					
Combined standard uncertainty			Normal	1.66	dB	
Expanded uncertainty			Normal, k=2	3.31	dB	

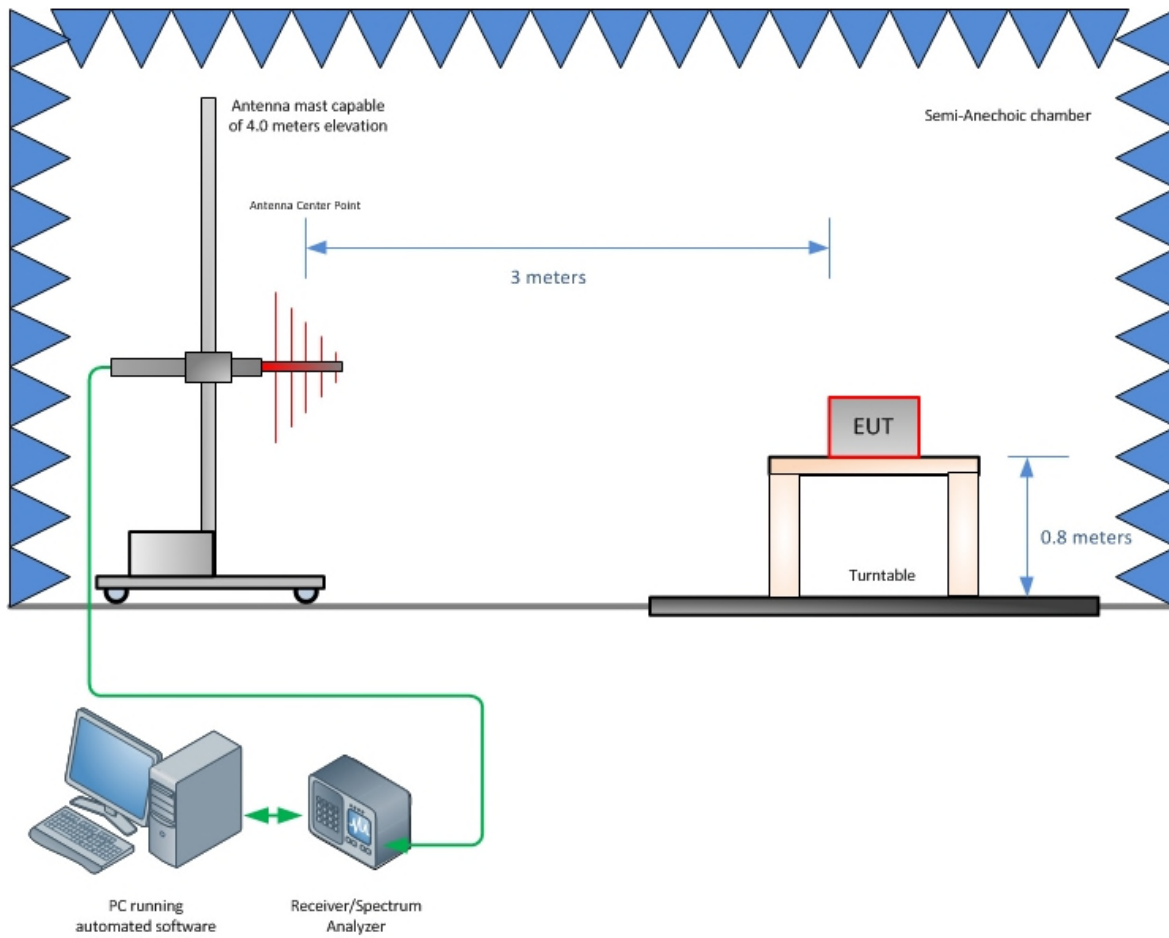
FCC ID: NU: YETQ44-1234CNU
CU: YETQ41-5ECU
IC: NU: 9298A-Q441234CNU
CU: 9298A-Q415ECU
Report No. 72146075A



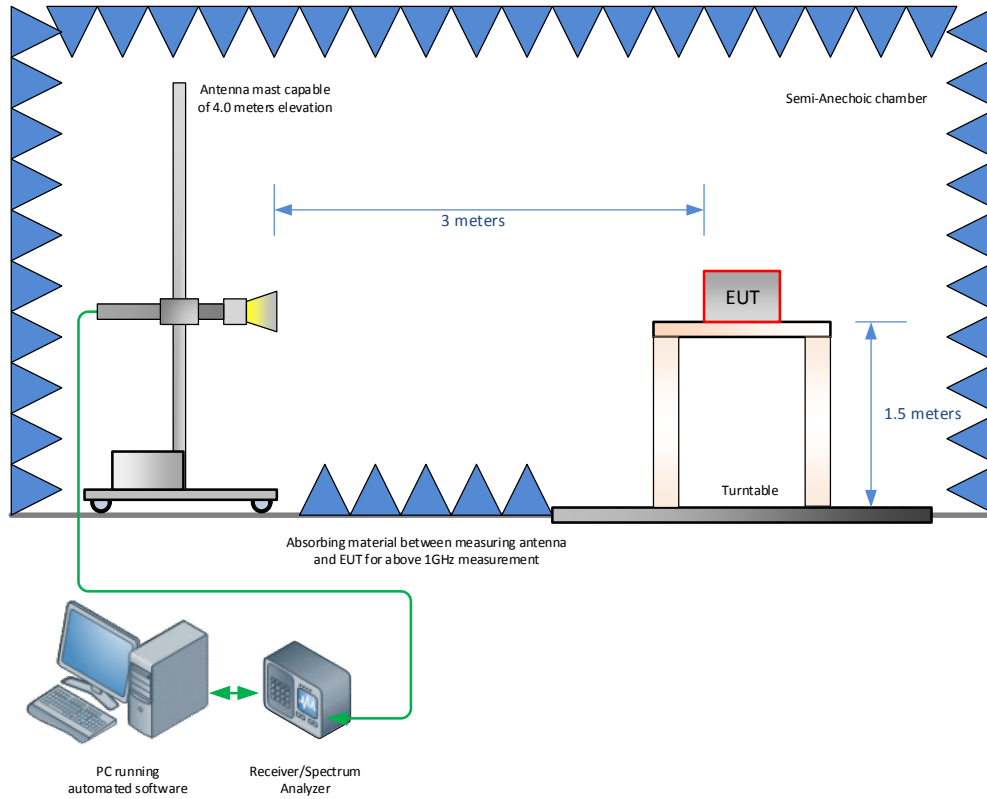
SECTION 4

DIAGRAM OF TEST SETUP

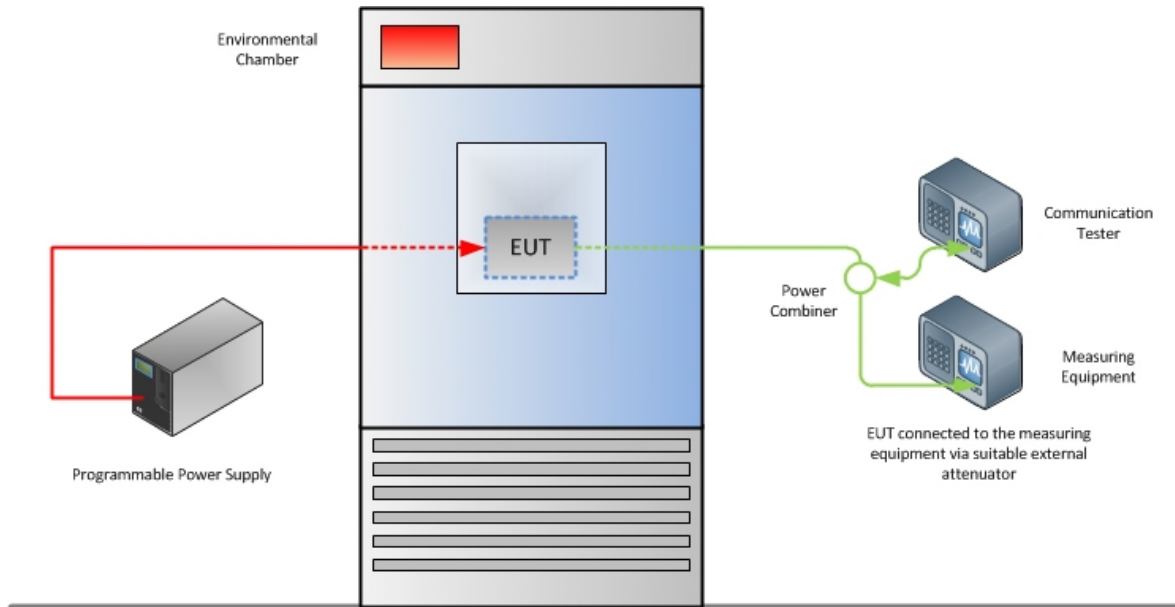
4.1 TEST SETUP DIAGRAM



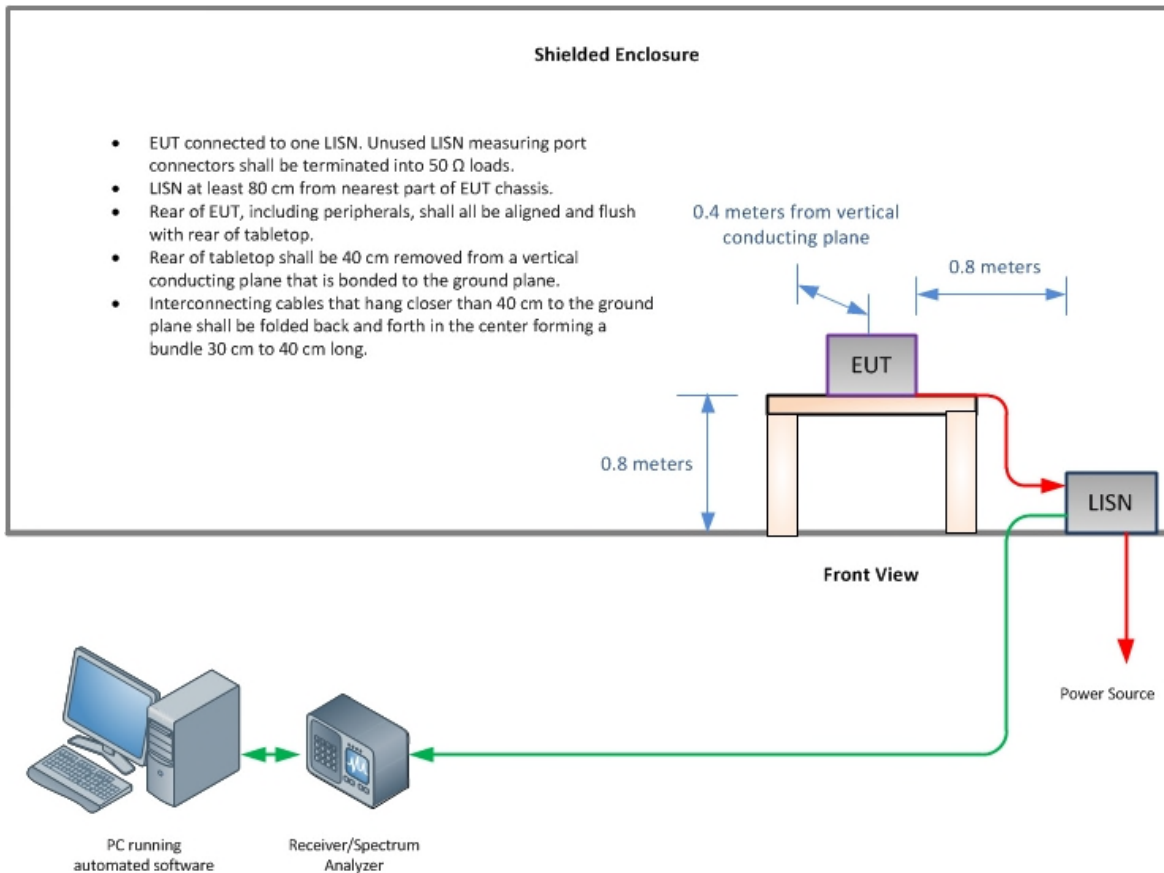
Radiated Emission Test Setup (Below 1GHz)



Radiated Emission Test Setup (Above 1GHz)



Frequency Stability Test Configuration



Conducted Emissions Test Configuration (if applicable)

FCC ID: NU: YETQ44-1234CNU
CU: YETQ41-5ECU
IC: NU: 9298A-Q441234CNU
CU: 9298A-Q415ECU
Report No. 72146075A



SECTION 5

ACCREDITATION, DISCLAIMERS AND COPYRIGHT

5.1 ACCREDITATION, DISCLAIMERS AND COPYRIGHT

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