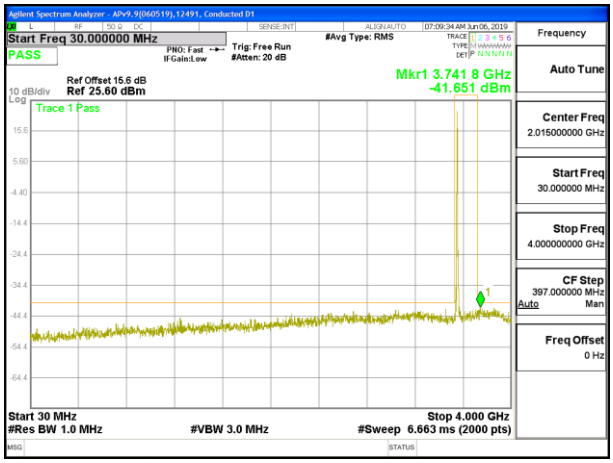
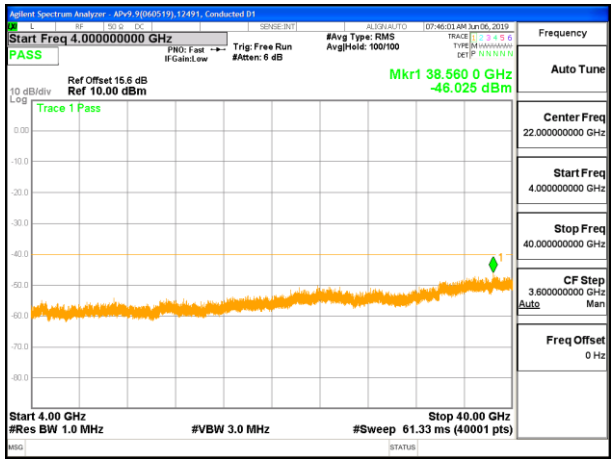
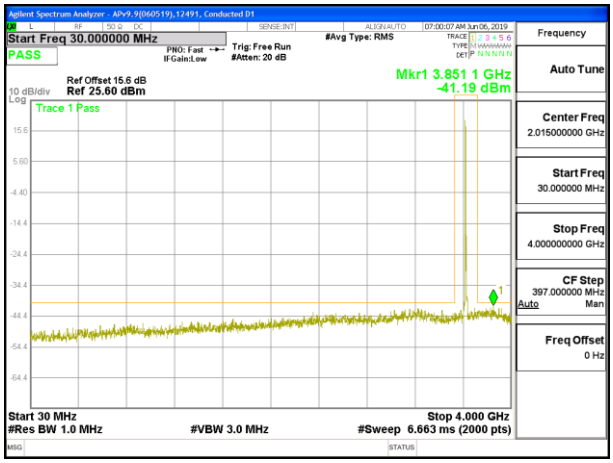


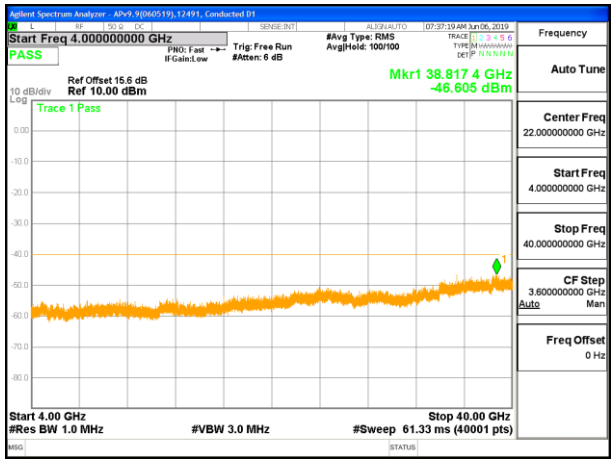
LTE B48 15MHz 16QAM Low Channel RB1-0



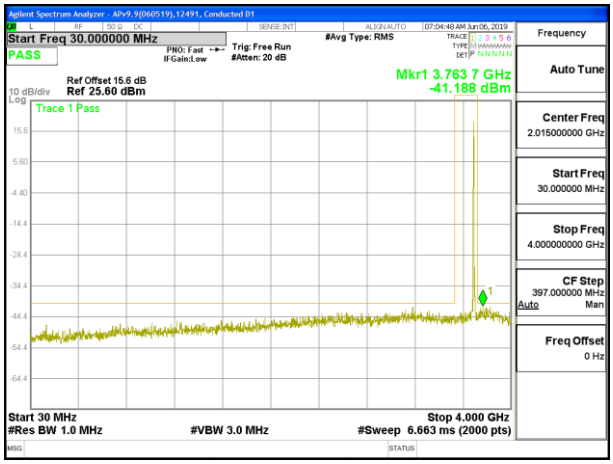
LTE B48 15MHz 16QAM Low Channel RB1-0



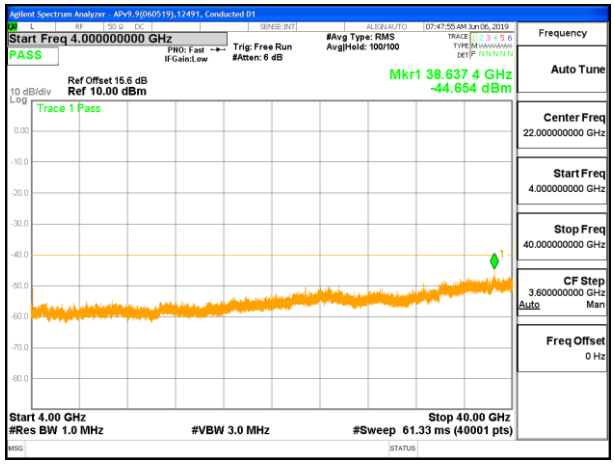
LTE B48 15MHz 16QAM Middle Channel RB1-0



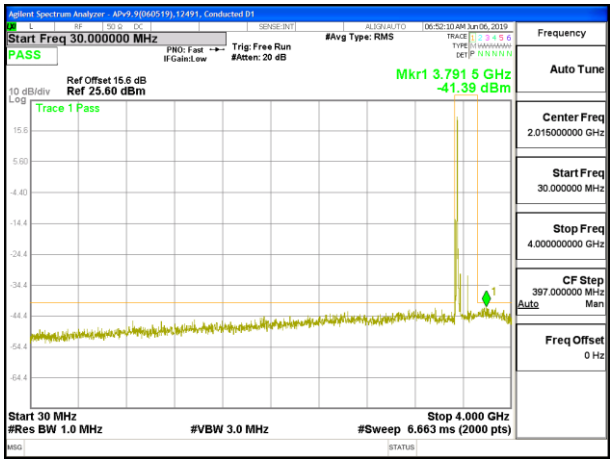
LTE B48 15MHz 16QAM Middle Channel RB1-0



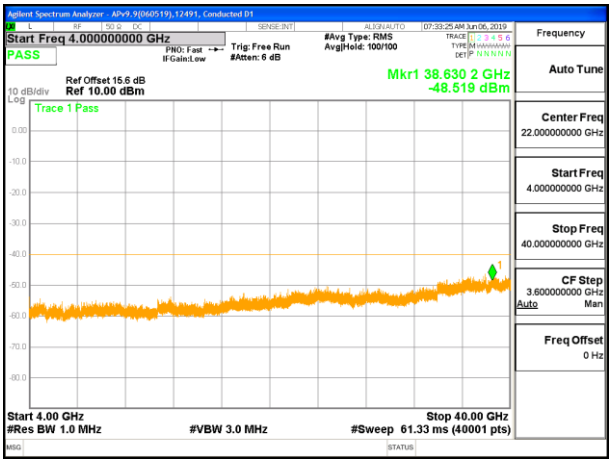
LTE B48 15MHz 16QAM High Channel RB1-0



LTE B48 15MHz 16QAM High Channel RB1-0



LTE B48 20MHz QPSK Low Channel RB1-0



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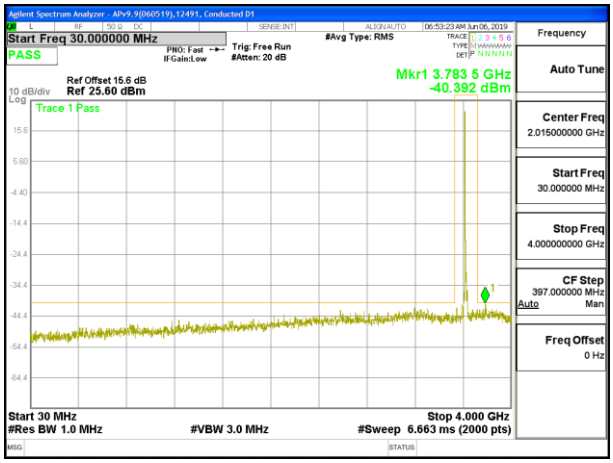

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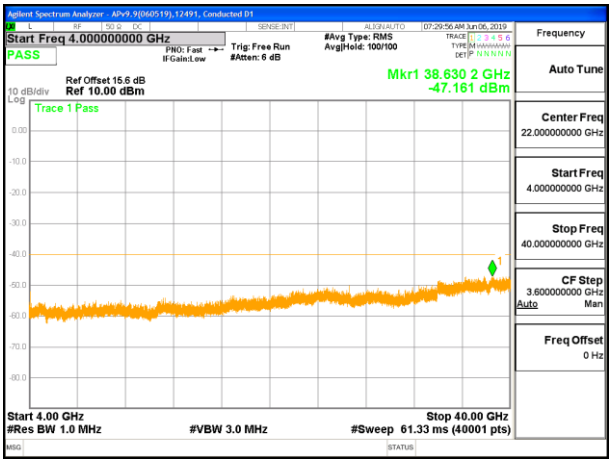

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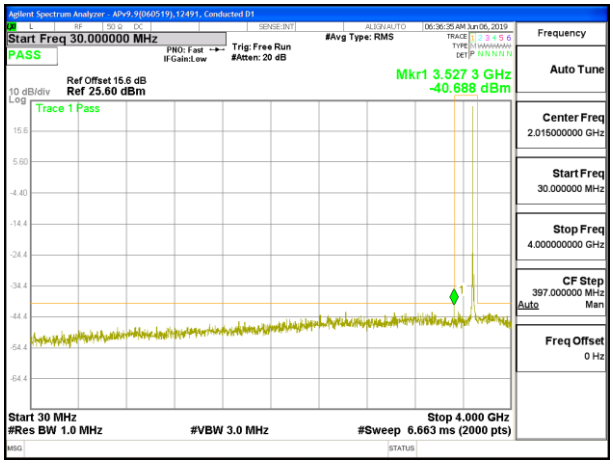

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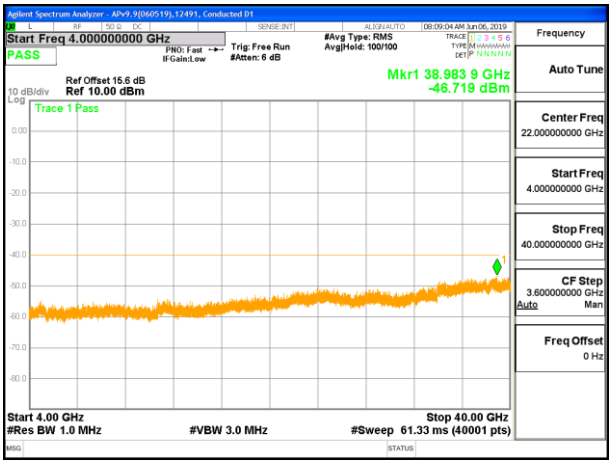
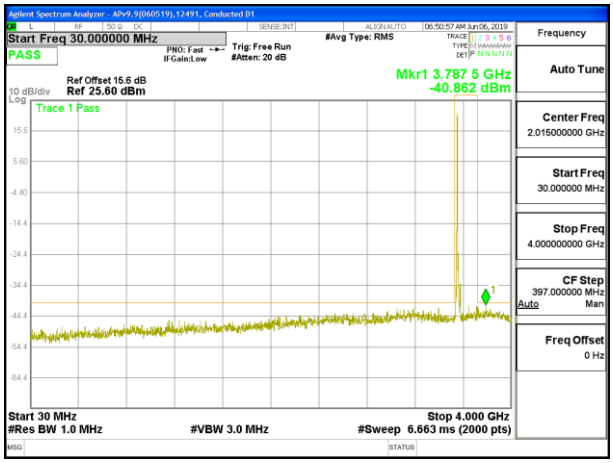
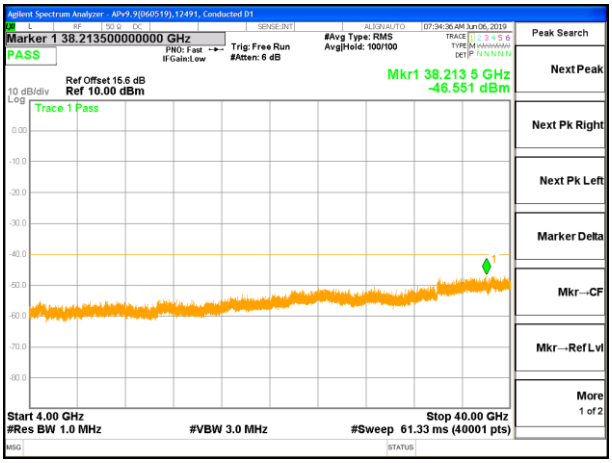


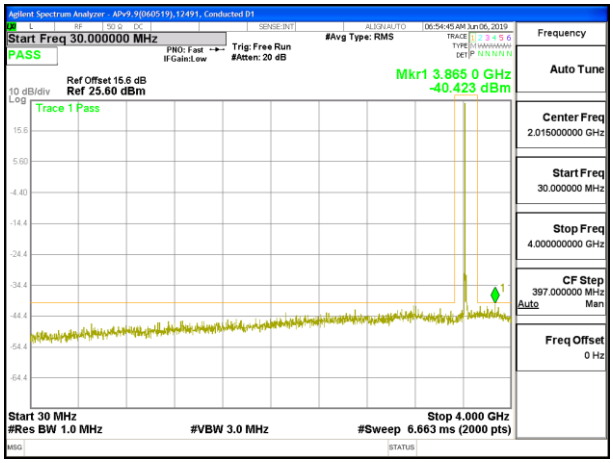
LTE B48 20MHz QPSK High Channel RB1-0



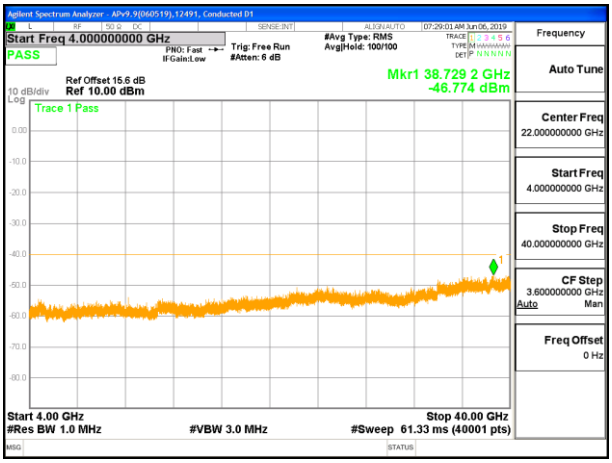
LTE B48 20MHz 16QAM Low Channel RB1-0



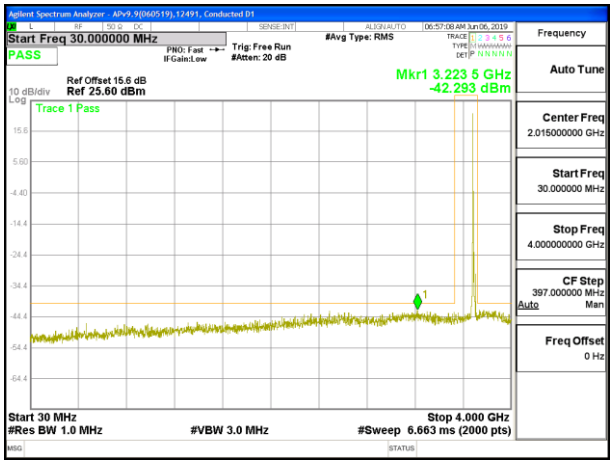
LTE B48 20MHz 16QAM Low Channel RB1-0



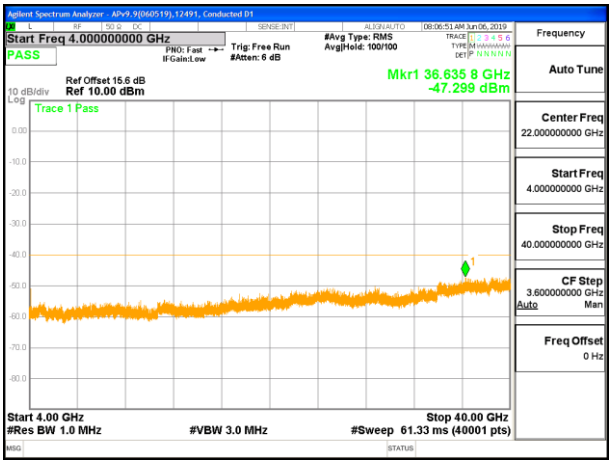
LTE B48 20MHz 16QAM Middle Channel RB1-0



LTE B48 20MHz 16QAM Middle Channel RB1-0

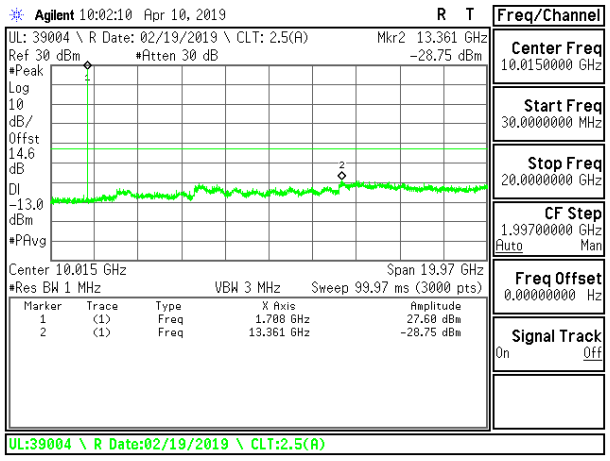


LTE B48 20MHz 16QAM High Channel RB1-0

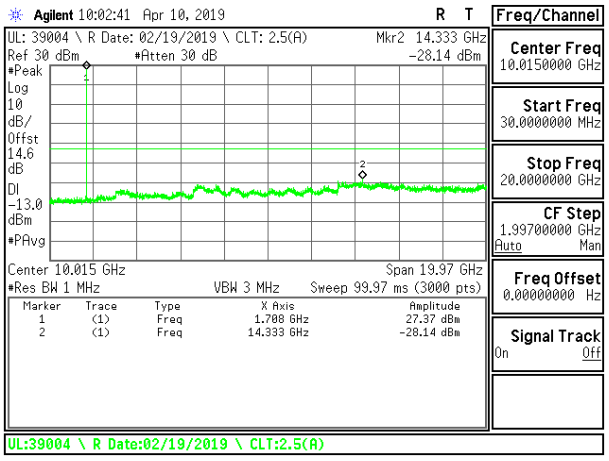


LTE B48 20MHz 16QAM High Channel RB1-0

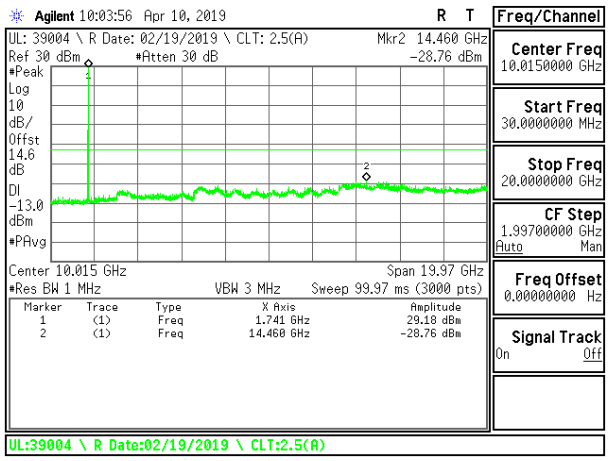
8.3.13. LTE BAND 66



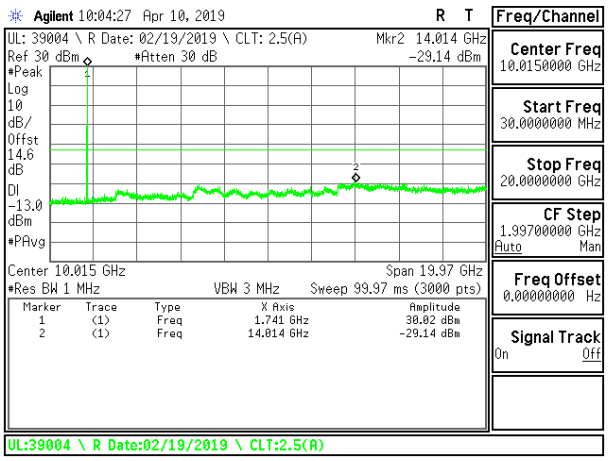
LTE B66 1.4MHz QPSK Low Channel RB1-0



LTE B66 1.4MHz 16QAM Low Channel RB1-0



LTE B66 1.4MHz QPSK Middle Channel RB1-0



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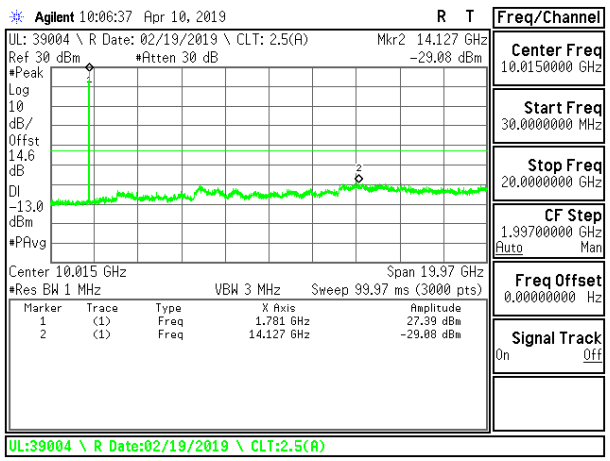
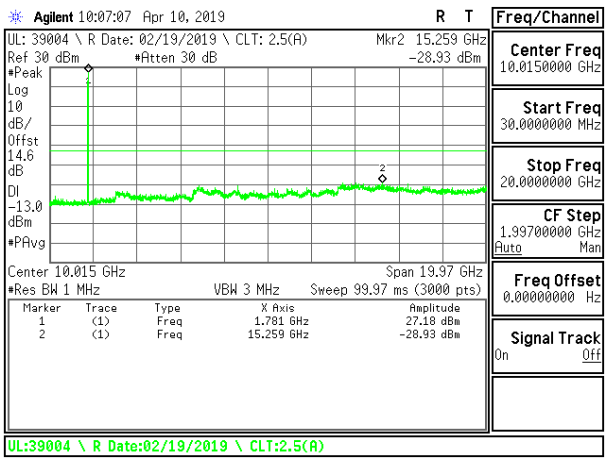
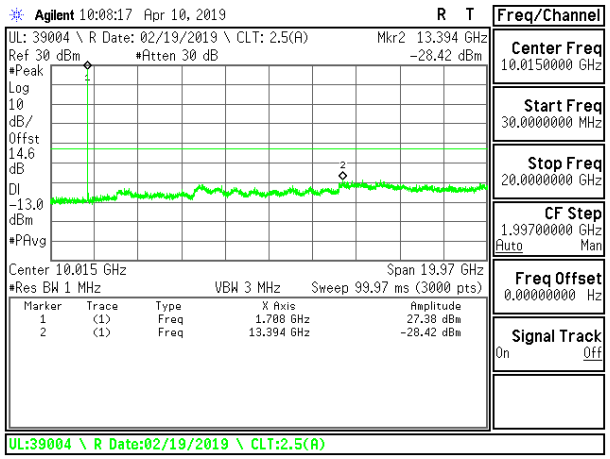


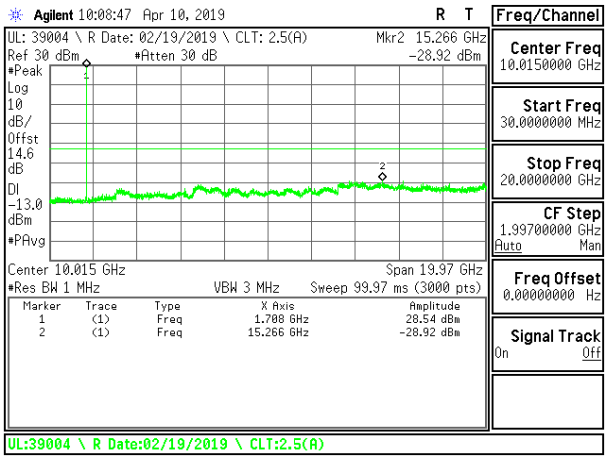
LTE B66 1.4MHz QPSK High Channel RB1-0



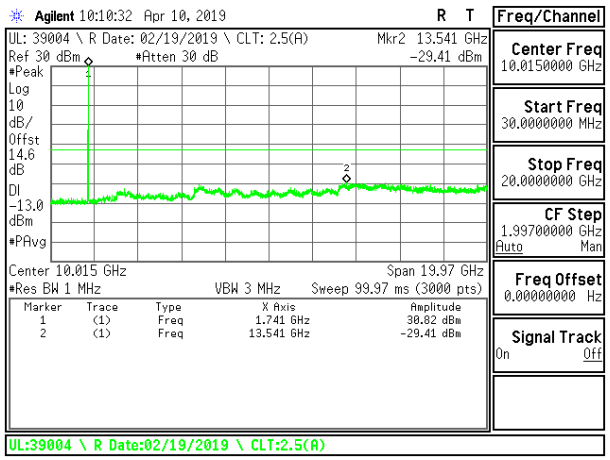
LTE B66 1.4MHz 16QAM High Channel RB1-0



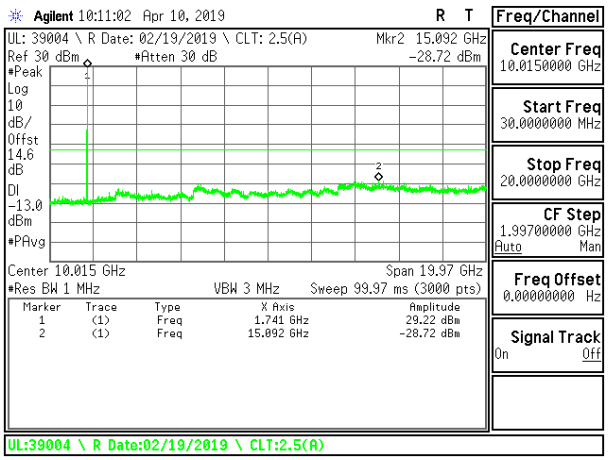
LTE B66 3MHz QPSK Low Channel RB1-0



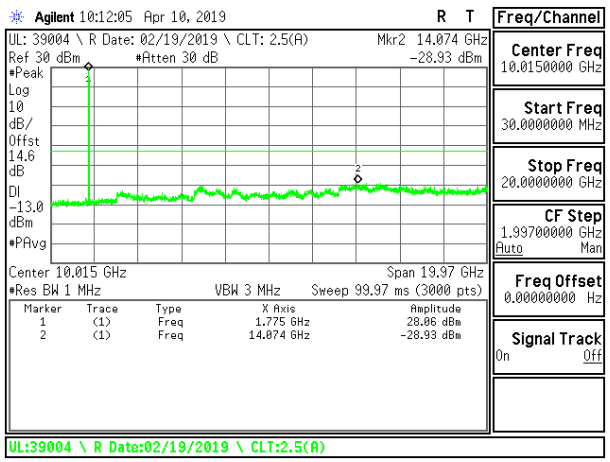
LTE B66 3MHz 16QAM Low Channel RB1-0



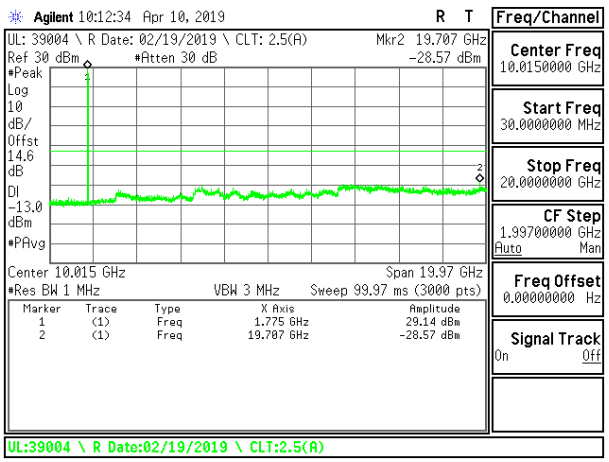
LTE B66 3MHz QPSK Middle Channel RB1-0



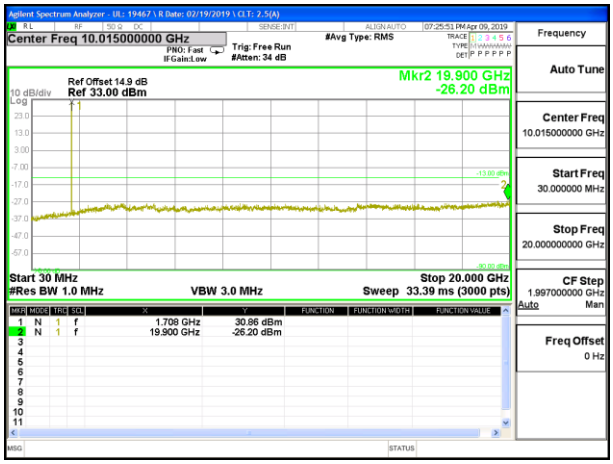
LTE B66 3MHz 16QAM Middle Channel RB1-0



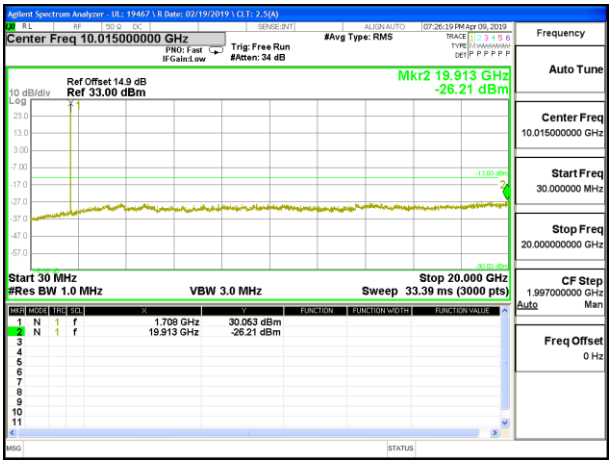
LTE B66 3MHz QPSK High Channel RB1-0



LTE B66 3MHz 16QAM High Channel RB1-0



LTE B66 5MHz QPSK Low Channel RB1-0



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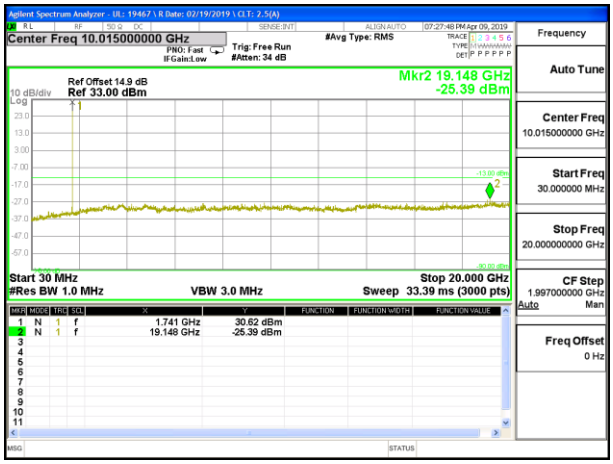
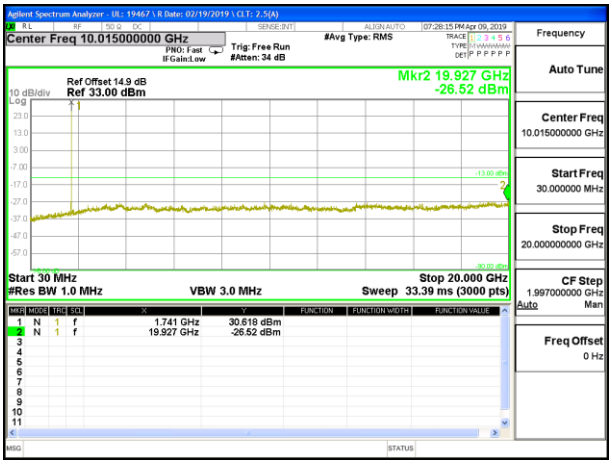
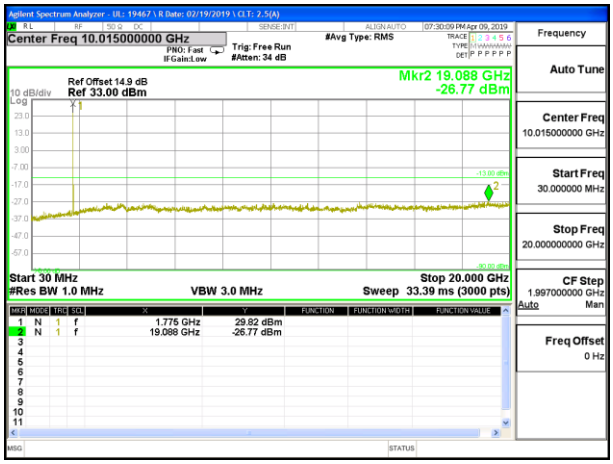


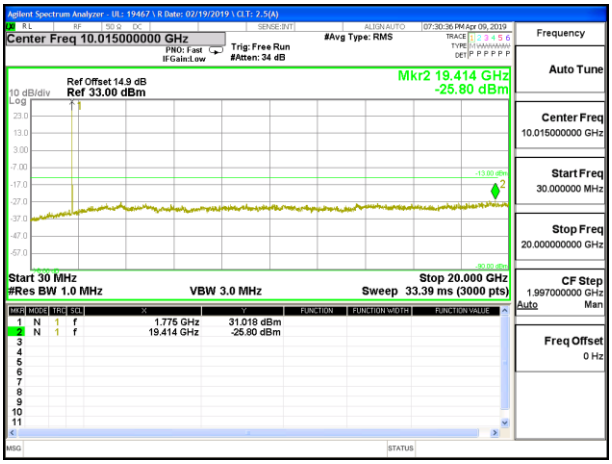
LTE B66 5MHz QPSK Middle Channel RB1-0



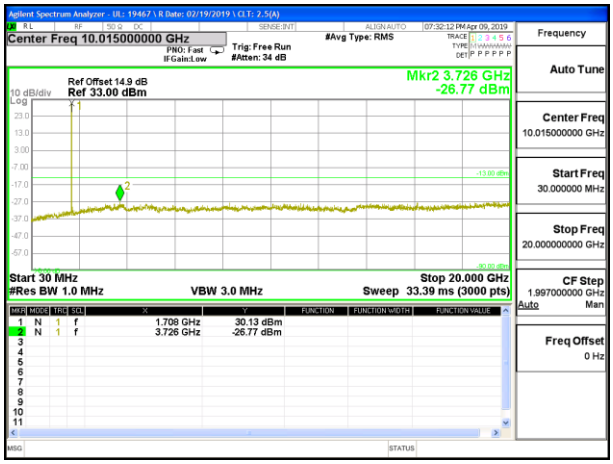
LTE B66 5MHz 16QAM Middle Channel RB1-0



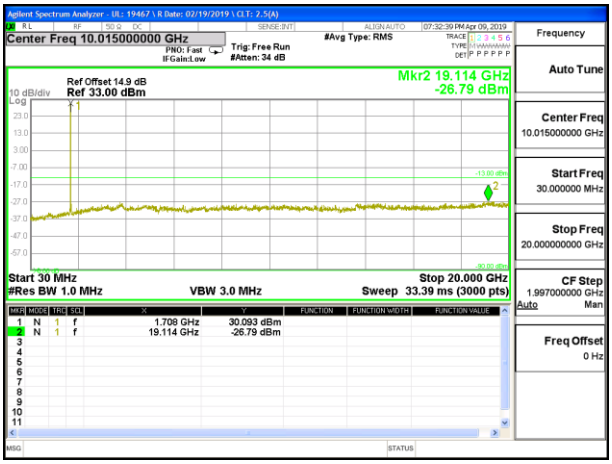
LTE B66 5MHz QPSK High Channel RB1-0



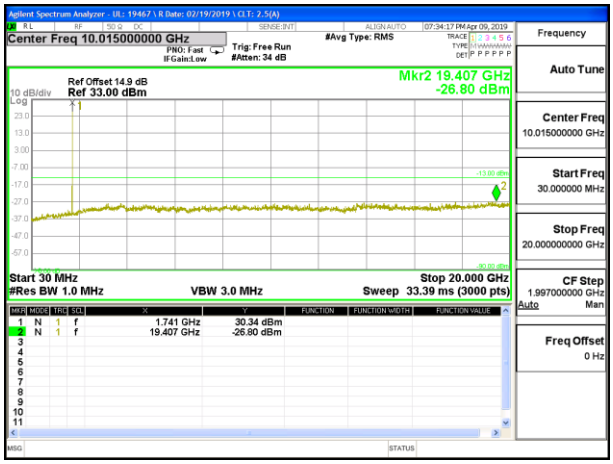
LTE B66 5MHz 16QAM High Channel RB1-0



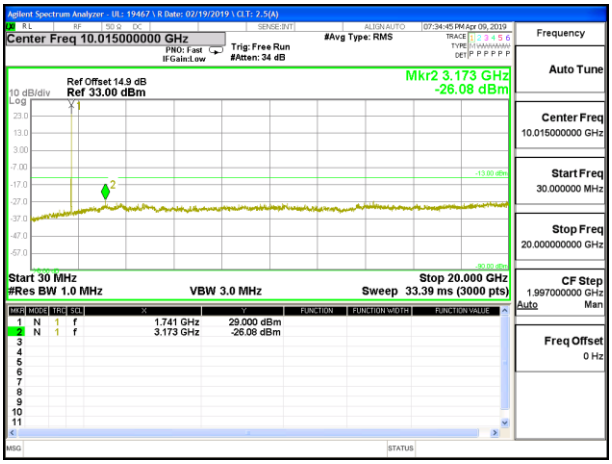
LTE B66 10MHz QPSK Low Channel RB1-0



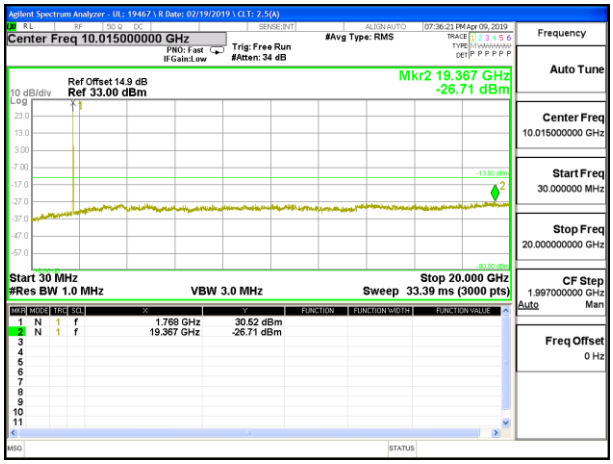
LTE B66 10MHz 16QAM Low Channel RB1-0



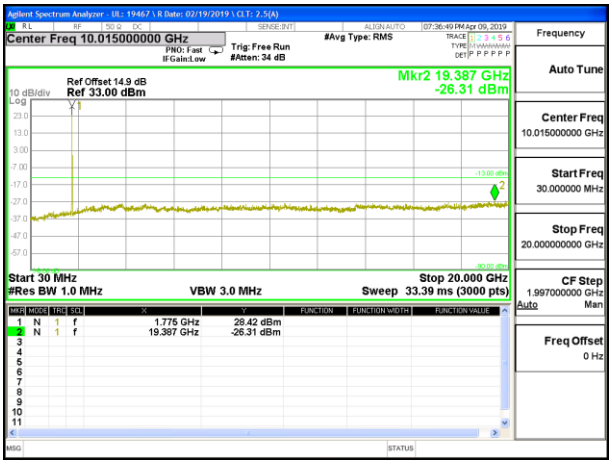
LTE B66 10MHz QPSK Middle Channel RB1-0



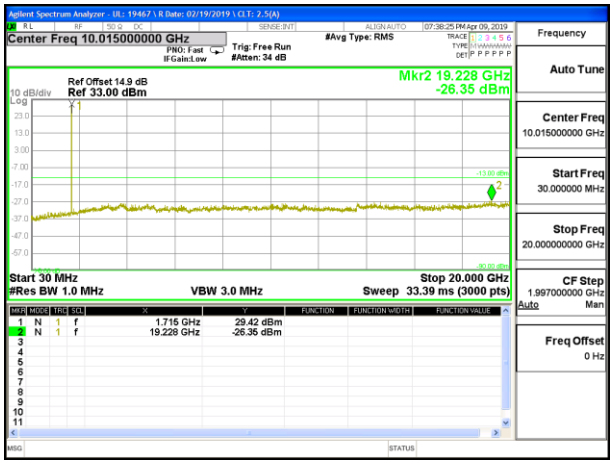
LTE B66 10MHz 16QAM Middle Channel RB1-0



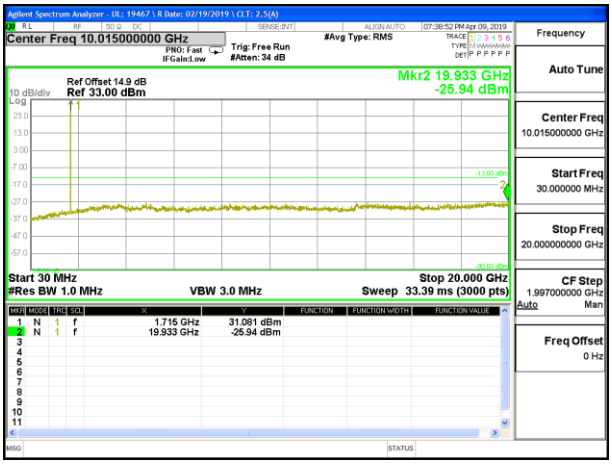
LTE B66 10MHz QPSK High Channel RB1-0



LTE B66 10MHz 16QAM High Channel RB1-0



LTE B66 15MHz QPSK Low Channel RB1-0



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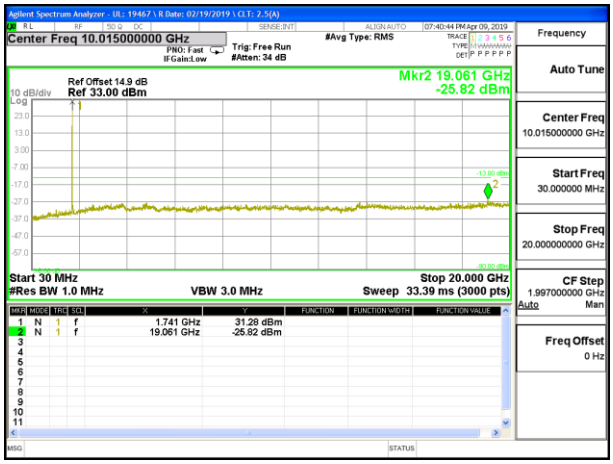
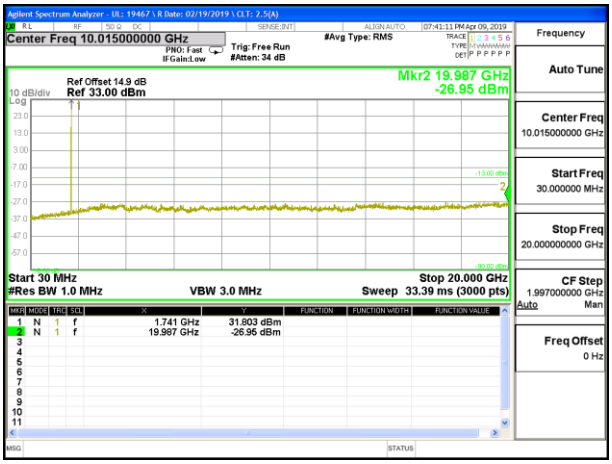
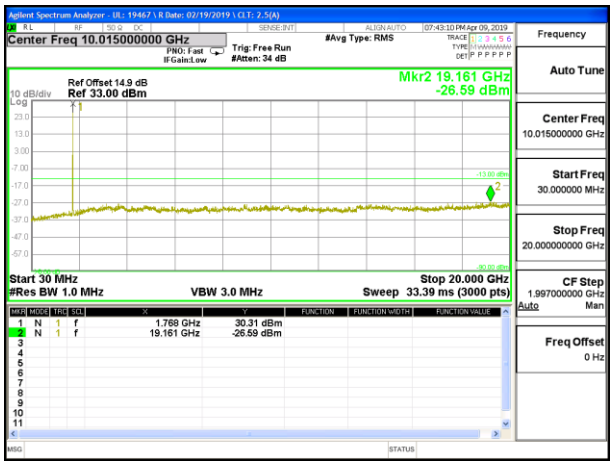


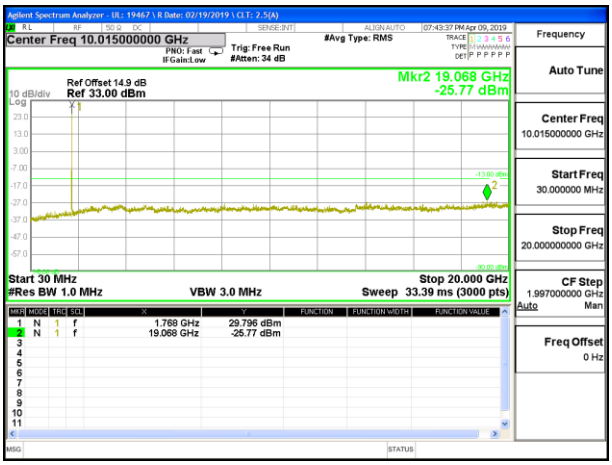
LTE B66 15MHz QPSK Middle Channel RB1-0



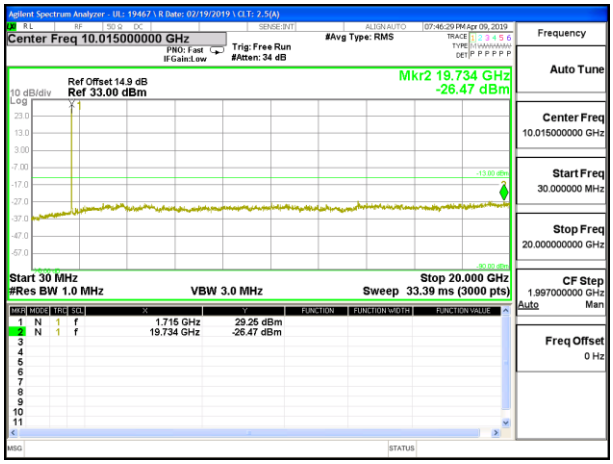
LTE B66 15MHz 16QAM Middle Channel RB1-0



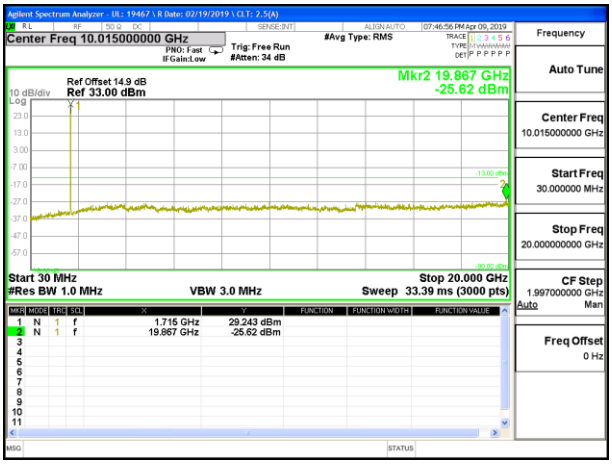
LTE B66 15MHz QPSK High Channel RB1-0



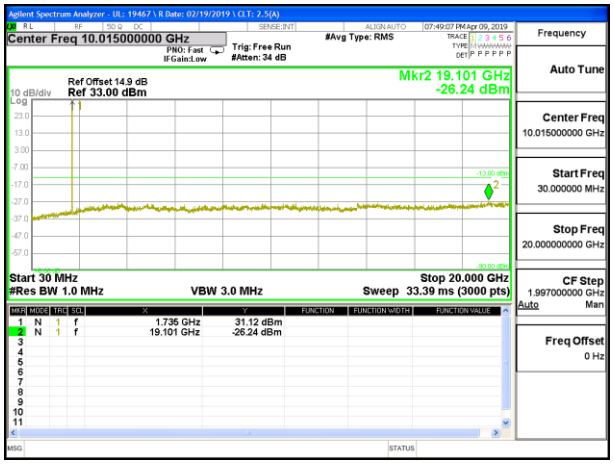
LTE B66 15MHz 16QAM High Channel RB1-0



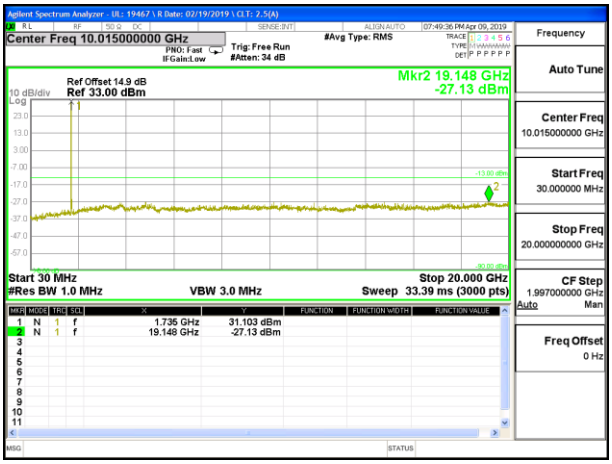
LTE B66 20MHz QPSK Low Channel RB1-0



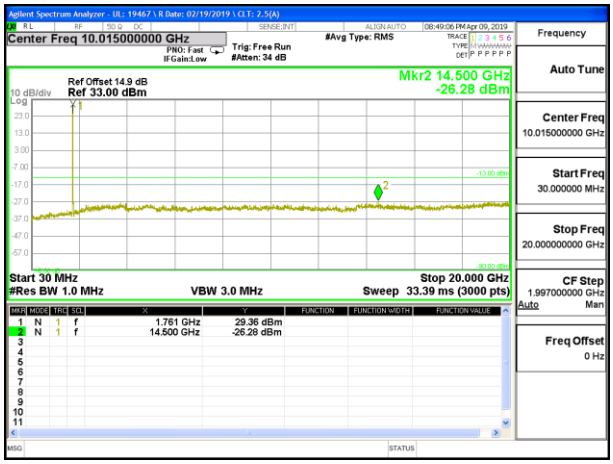
LTE B66 20MHz 16QAM Low Channel RB1-0



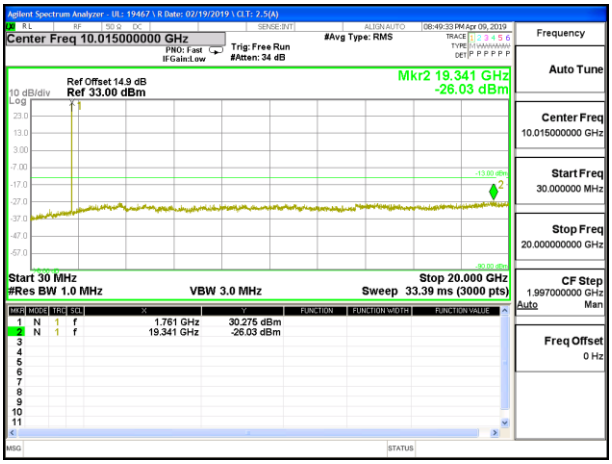
LTE B66 20MHz QPSK Middle Channel RB1-0



LTE B66 20MHz 16QAM Middle Channel RB1-0

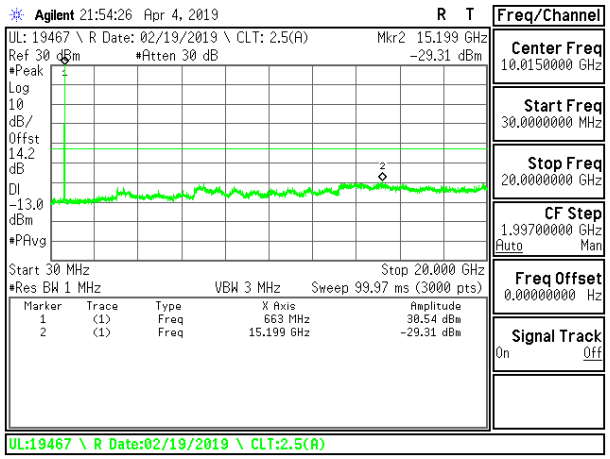


LTE B66 20MHz QPSK High Channel RB1-0

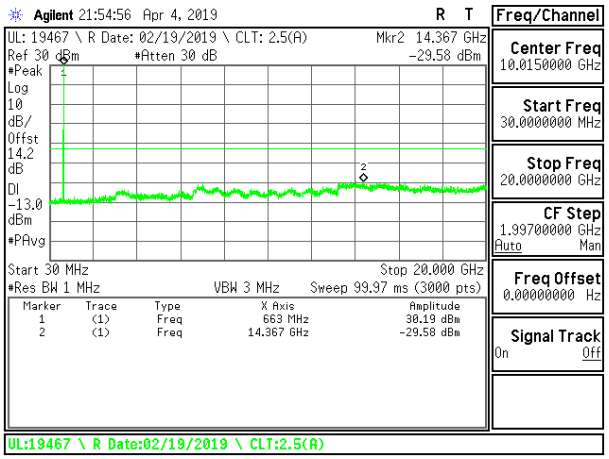


LTE B66 20MHz 16QAM High Channel RB1-0

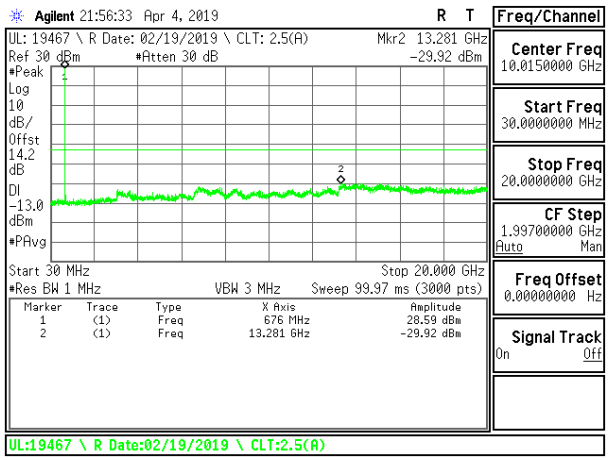
8.3.14. LTE BAND 71



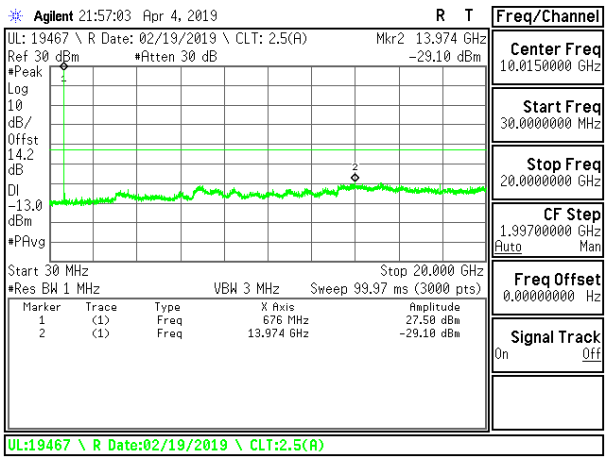
LTE B71 5MHz QPSK Low Channel RB1-0



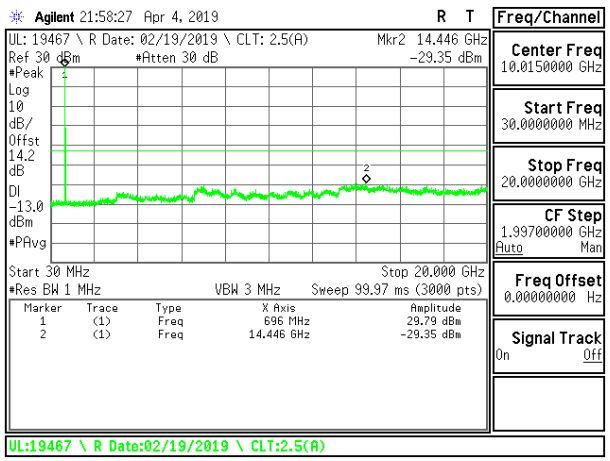
LTE B71 5MHz 16QAM Low Channel RB1-0



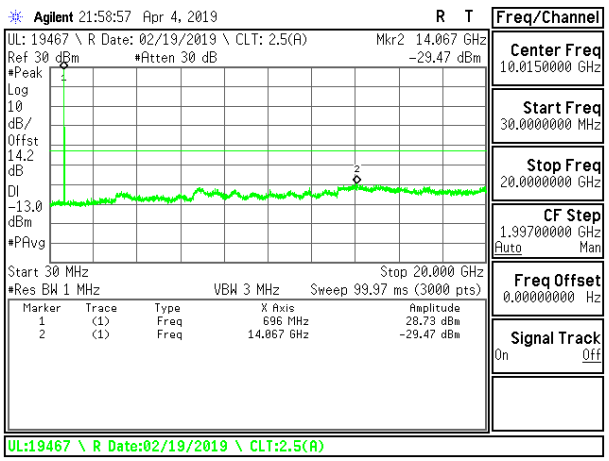
LTE B71 5MHz QPSK Middle Channel RB1-0



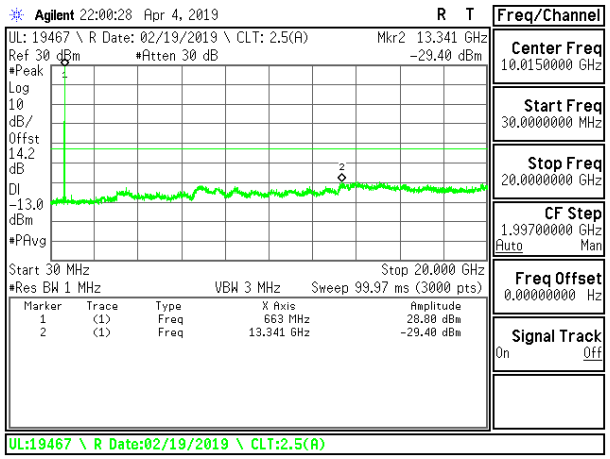
LTE B71 5MHz 16QAM Middle Channel RB1-0



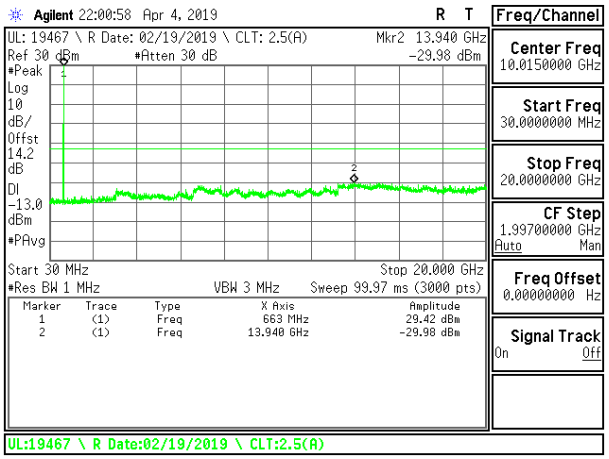
LTE B71 5MHz QPSK High Channel RB1-0



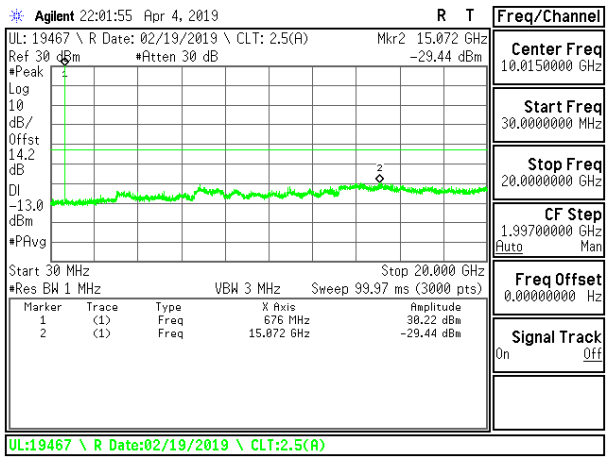
LTE B71 5MHz 16QAM High Channel RB1-0



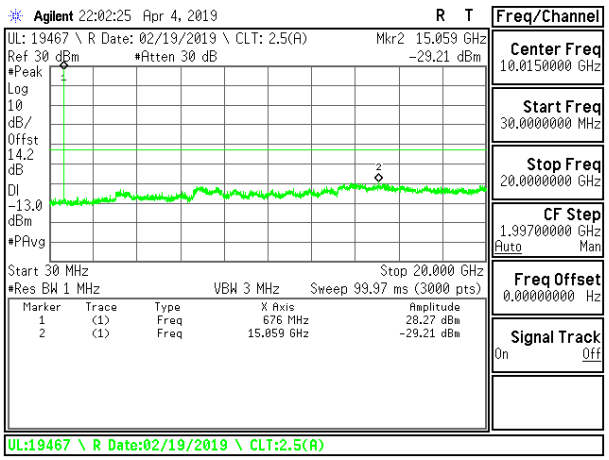
LTE B71 10MHz QPSK Low Channel RB1-0



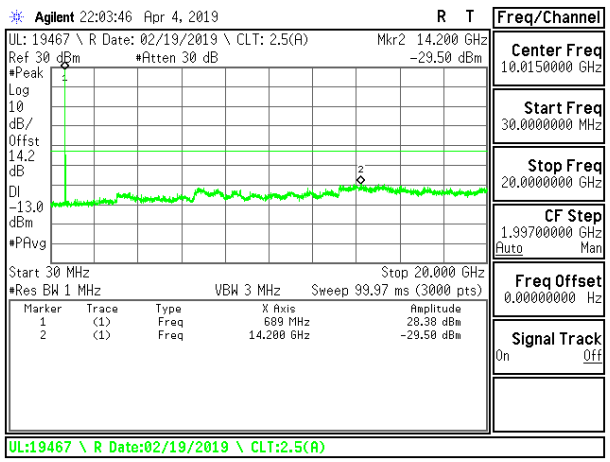
LTE B71 10MHz 16QAM Low Channel RB1-0



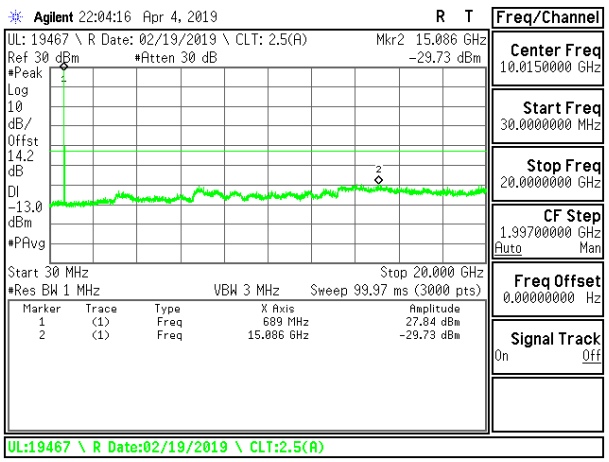
LTE B71 10MHz QPSK Middle Channel RB1-0



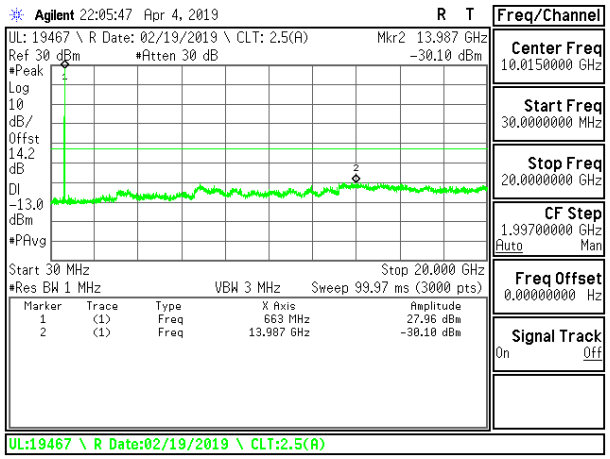
LTE B71 10MHz 16QAM Middle Channel RB1-0



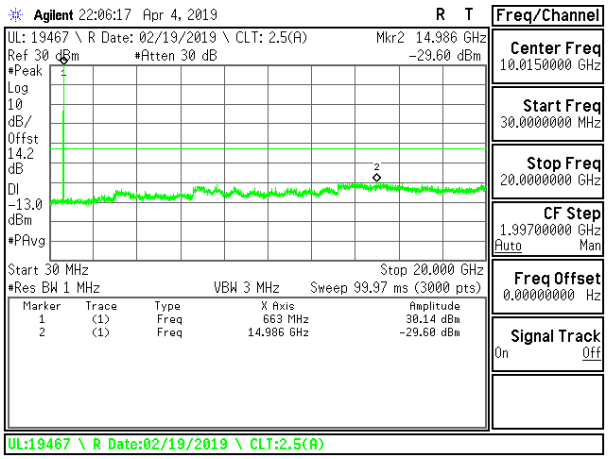
LTE 71 10MHz QPSK High Channel RB1-0



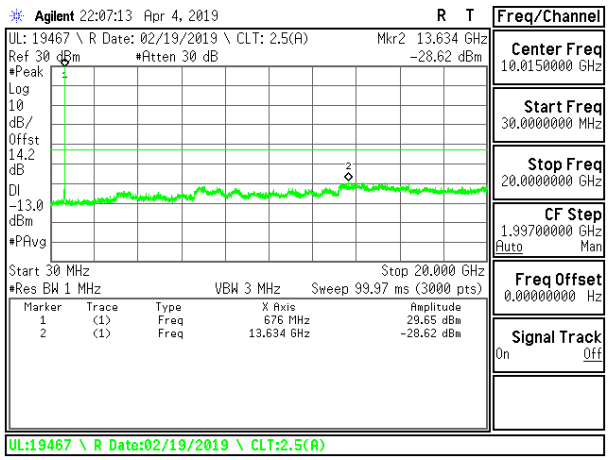
LTE B71 10MHz 16QAM High Channel RB1-0



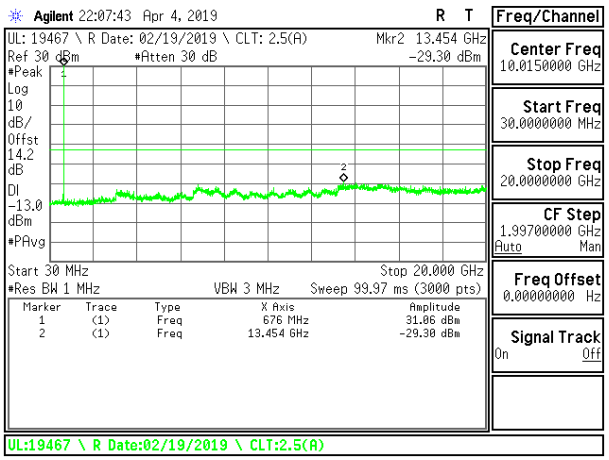
LTE B71 15MHz QPSK Low Channel RB1-0



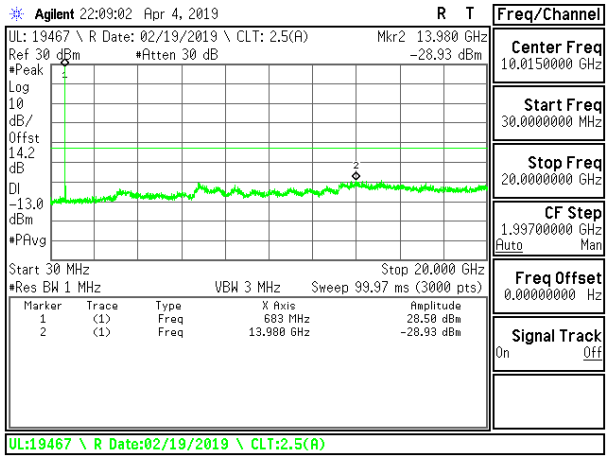
LTE B71 15MHz 16QAM Low Channel RB1-0



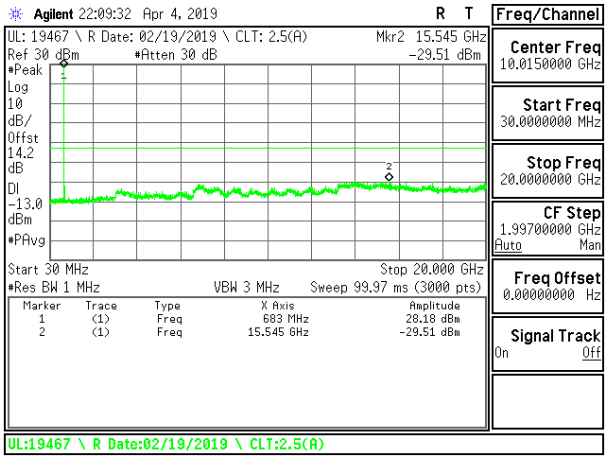
LTE B71 15MHz QPSK Middle Channel RB1-0



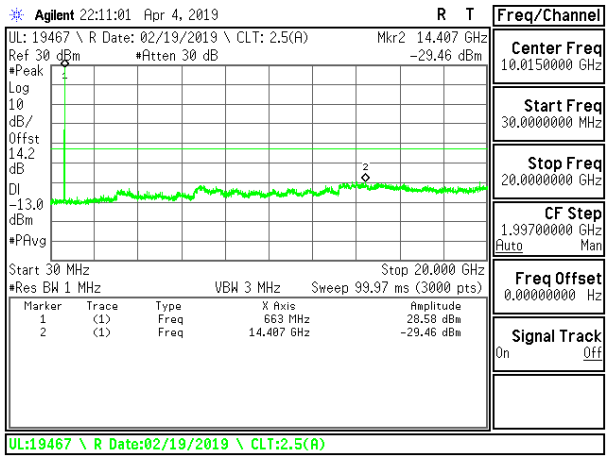
LTE B71 15MHz 16QAM Middle Channel RB1-0



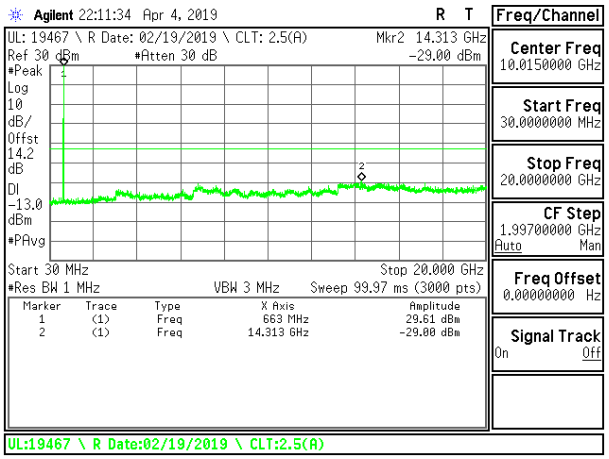
LTE B71 15MHz QPSK High Channel RB1-0



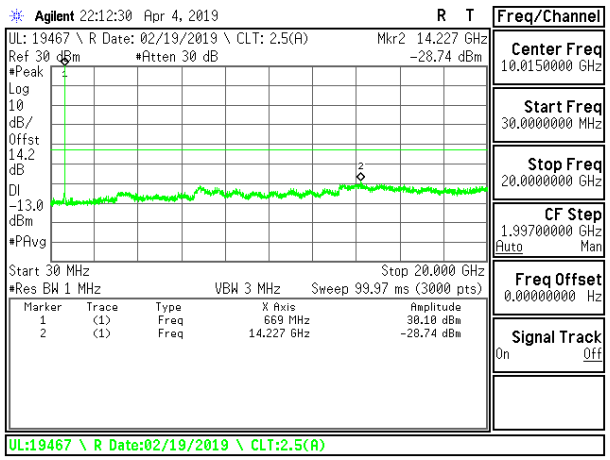
LTE B71 15MHz 16QAM High Channel RB1-0



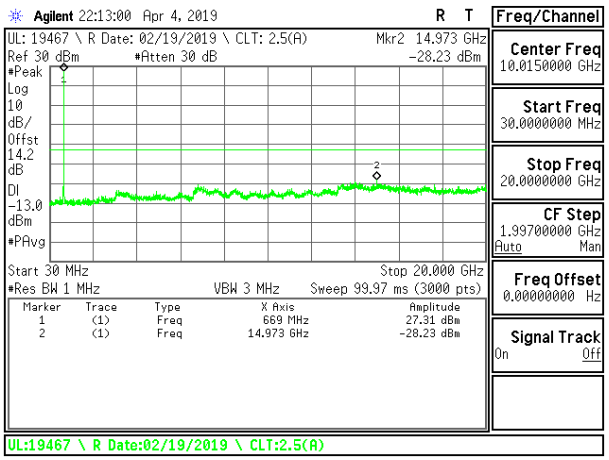
LTE B71 20MHz QPSK Low Channel RB1-0



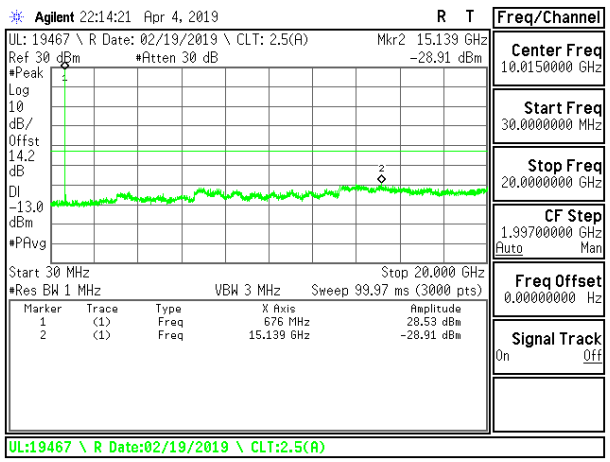
LTE B71 20MHz 16QAM Low Channel RB1-0



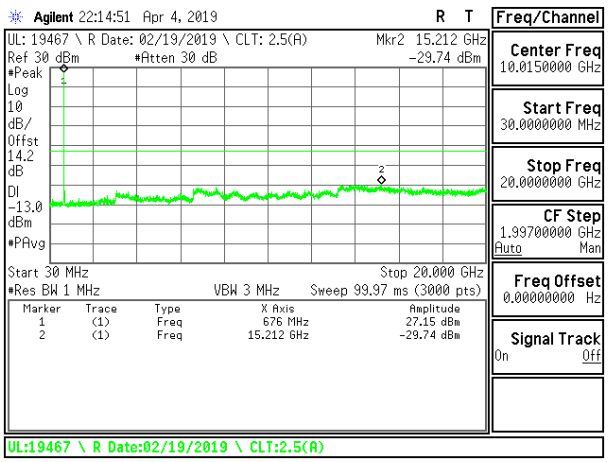
LTE B71 20MHz QPSK Middle Channel RB1-0



LTE B71 20MHz 16QAM Middle Channel RB1-0



LTE B71 20MHz QPSK High Channel RB1-0



LTE B71 20MHz 16QAM High Channel RB1-0

8.4. FREQUENCY STABILITY

RULE PART(S)

FCC: §2.1055, §22.355, §24.235, §27.54, §90.213 and §90.539

LIMITS

§22.355, §90.213
The carrier frequency shall not depart from the reference frequency in excess of ±2.5 ppm for mobile stations.

§90.539
(e) The frequency stability of mobile, portable and control transmitters operating in the wideband segment must be 1.25 ppm or better when AFC is locked to a base station, and 5 ppm or better when AFC is not locked.

§24.235 & §27.54
The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

TEST PROCEDURE

Use CMW 500 with Frequency Error measurement capability.

- Temp. = −30°C to +50°C
- Voltage = (85% - 115%)

  Low voltage, 3.23VDC, Normal, 3.8VDC and High voltage, 4.37VDC.
  End Voltage, 3.2VDC.

Frequency Stability vs Temperature:
The EUT is place inside a temperature chamber. The temperature is set to 20ºC and allowed to stabilize. After sufficient soak time, the transmitting frequency error is measured. The temperature is increased by 10 degrees, allowed to stabilize and soak, and then the measurement is repeated. This is repeated until +50ºC is reached.

Frequency Stability vs Voltage:
The peak frequency error is recorded (worst-case).

MODES TESTED

- LTE Band 2
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 14
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 30
- LTE Band 41
- LTE Band 48
- LTE Band 66
- LTE Band 71

RESULTS

See the following pages.

8.4.1. LTE BAND 2

ID:	38602	Date:	4/2/19

QPSK, (20MHz BANDWIDTH)

Condition		F low @ -13dBm	F high @ -13dBm	Delta (Hz)	Frequency Stability (ppm)
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)		1850.9945	1909.0427		
Extreme (50C)		1850.9945	1909.0427	-1.0	-0.001
Extreme (40C)		1850.9945	1909.0427	-0.9	0.000
Extreme (30C)		1850.9945	1909.0427	-1.2	-0.001
Extreme (10C)	Normal	1850.9945	1909.0427	-1.0	-0.001
Extreme (0C)		1850.9945	1909.0427	-1.2	-0.001
Extreme (-10C)		1850.9945	1909.0427	-1.1	-0.001
Extreme (-20C)		1850.9945	1909.0427	-1.0	-0.001
Extreme (-30C)		1850.9945	1909.0427	-0.8	0.000
	15%	1850.9945	1909.0427	1.2	0.001
20C	-15%	1850.9945	1909.0427	1.1	0.001
	End Point	1850.9945	1909.0427	0.8	0.000

8.4.2. LTE BAND 5

ID:	38602	Date:	4/3/19

QPSK, (10MHz BANDWIDTH)

Limit		824	849	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)		824.4157	848.5025		
Extreme (50C)		824.4157	848.5025	1.2	0.001
Extreme (40C)		824.4157	848.5025	1.1	0.001
Extreme (30C)		824.4157	848.5025	0.9	0.001
Extreme (10C)	Normal	824.4157	848.5025	0.8	0.001
Extreme (0C)		824.4157	848.5025	1.0	0.001
Extreme (-10C)		824.4157	848.5025	0.8	0.001
Extreme (-20C)		824.4157	848.5025	1.2	0.001
Extreme (-30C)		824.4157	848.5025	1.1	0.001
	15%	824.4157	848.5025	1.4	0.002
20C	-15%	824.4157	848.5025	1.2	0.001
	End Point	824.4157	848.5025	1.5	0.002

8.4.3. LTE BAND 7

ID:	38602	Date:	4/3/19

QPSK, (20MHz BANDWIDTH)

Limit		2500	2570	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)		2501.016	2569.024		
Extreme (50C)		2501.016	2569.024	1.6	0.001
Extreme (40C)		2501.016	2569.024	1.3	0.001
Extreme (30C)		2501.016	2569.024	1.2	0.000
Extreme (10C)	Normal	2501.016	2569.024	-0.9	0.000
Extreme (0C)		2501.016	2569.024	1.0	0.000
Extreme (-10C)		2501.016	2569.024	1.2	0.000
Extreme (-20C)		2501.016	2569.024	1.1	0.000
Extreme (-30C)		2501.016	2569.024	-1.3	-0.001
	15%	2501.016	2569.024	1.3	0.001
20C	-15%	2501.016	2569.024	1.4	0.001
	End Point	2501.016	2569.024	1.6	0.001

8.4.4. LTE BAND 12

ID:	38602	Date:	4/3/19

QPSK, (10MHz BANDWIDTH)

Limit		699	716	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)		699.4809	715.5186		
Extreme (50C)		699.4809	715.5186	0.8	0.001
Extreme (40C)		699.4809	715.5186	1.0	0.001
Extreme (30C)		699.4809	715.5186	0.7	0.001
Extreme (10C)	Normal	699.4809	715.5186	1.0	0.001
Extreme (0C)		699.4809	715.5186	0.8	0.001
Extreme (-10C)		699.4809	715.5186	1.1	0.002
Extreme (-20C)		699.4809	715.5186	0.9	0.001
Extreme (-30C)		699.4809	715.5186	1.2	0.002
	15%	699.4809	715.5186	1.0	0.001
20C	-15%	699.4809	715.5186	1.2	0.002
	End Point	699.4809	715.5186	1.1	0.002

8.4.5. LTE BAND 13

ID:	38602	Date:	4/3/19

QPSK, (10MHz BANDWIDTH)

Limit		777	787	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	777.1688	786.8579		
Extreme (50C)		777.1688	786.8579	0.8	0.001
Extreme (40C)		777.1688	786.8579	1.1	0.001
Extreme (30C)		777.1688	786.8579	0.8	0.001
Extreme (10C)		777.1688	786.8579	0.7	0.001
Extreme (0C)		777.1688	786.8579	0.5	0.001
Extreme (-10C)		777.1688	786.8579	-0.7	-0.001
Extreme (-20C)		777.1688	786.8579	-0.6	-0.001
Extreme (-30C)		777.1688	786.8579	1.3	0.002
20C	15%	777.1688	786.8579	1.2	0.002
	-15%	777.1688	786.8579	0.9	0.001
	End Point	777.1688	786.8579	1.1	0.001

8.4.6. LTE BAND 14

ID:	30606	Date:	4/3/19

QPSK, (10MHz BANDWIDTH)

Limit		788	798	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	788.1897	797.8317		
Extreme (50C)		788.1897	797.8317	-0.5	-0.001
Extreme (40C)		788.1897	797.8317	0.9	0.001
Extreme (30C)		788.1897	797.8317	0.6	0.001
Extreme (10C)		788.1897	797.8317	0.8	0.001
Extreme (0C)		788.1897	797.8317	0.8	0.001
Extreme (-10C)		788.1897	797.8317	1.1	0.001
Extreme (-20C)		788.1897	797.8317	1.1	0.001
Extreme (-30C)		788.1897	797.8317	0.4	0.001
20C	15%	788.1897	797.8317	1.3	0.002
	-15%	788.1897	797.8317	1.1	0.001
	End Point	788.1897	797.8317	1.2	0.002

8.4.7. LTE BAND 17

ID:	30606	Date:	4/3/19

QPSK, (10MHz BANDWIDTH)

Limit		704	716	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	704.2830	715.5697		
Extreme (50C)		704.2830	715.5697	0.7	0.001
Extreme (40C)		704.2830	715.5697	0.9	0.001
Extreme (30C)		704.2830	715.5697	1.1	0.002
Extreme (10C)		704.2830	715.5697	0.9	0.001
Extreme (0C)		704.2830	715.5697	0.9	0.001
Extreme (-10C)		704.2830	715.5697	0.9	0.001
Extreme (-20C)		704.2830	715.5697	1.2	0.002
Extreme (-30C)		704.2830	715.5697	1.8	0.003
20C	15%	704.2830	715.5697	1.3	0.002
	-15%	704.2830	715.5697	0.9	0.001
	End Point	704.2830	715.5697	1.1	0.002

8.4.8. LTE BAND 25

ID:	30606	Date:	4/3/19

QPSK, (20MHz BANDWIDTH)

Limit		1850	1915	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	1850.9987	1914.0232		
Extreme (50C)		1850.9987	1914.0232	0.8	0.000
Extreme (40C)		1850.9987	1914.0232	1.0	0.001
Extreme (30C)		1850.9987	1914.0232	1.6	0.001
Extreme (10C)		1850.9987	1914.0232	1.4	0.001
Extreme (0C)		1850.9987	1914.0232	1.5	0.001
Extreme (-10C)		1850.9987	1914.0232	1.1	0.001
Extreme (-20C)		1850.9987	1914.0232	0.4	0.000
Extreme (-30C)		1850.9987	1914.0232	1.7	0.001
20C	15%	1850.9987	1914.0232	1.2	0.001
	-15%	1850.9987	1914.0232	0.7	0.000
	End Point	1850.9987	1914.0232	1.0	0.001

8.4.9. LTE BAND 26

ID:	30606	Date:	4/3/19

QPSK, (10MHz BANDWIDTH)

Limit		814	824	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	814.2110	823.8236		
Extreme (50C)		814.2110	823.8236	1.2	0.002
Extreme (40C)		814.2110	823.8236	1.3	0.002
Extreme (30C)		814.2110	823.8236	0.9	0.001
Extreme (10C)		814.2110	823.8236	1.6	0.002
Extreme (0C)		814.2110	823.8236	0.8	0.001
Extreme (-10C)		814.2110	823.8236	1.0	0.001
Extreme (-20C)		814.2110	823.8236	1.4	0.002
Extreme (-30C)		814.2110	823.8236	0.9	0.001
20C	15%	814.2110	823.8236	1.5	0.002
	-15%	814.2110	823.8236	1.2	0.001
	End Point	814.2110	823.8236	1.0	0.001

8.4.10. LTE BAND 30

ID:	30606	Date:	4/4/19

QPSK, (10MHz BANDWIDTH)

Limit		2305	2315	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	2305.5041	2314.5012		
Extreme (50C)		2305.5041	2314.5012	1.0	0.000
Extreme (40C)		2305.5041	2314.5012	0.9	0.000
Extreme (30C)		2305.5041	2314.5012	1.5	0.001
Extreme (10C)		2305.5041	2314.5012	1.1	0.000
Extreme (0C)		2305.5041	2314.5012	1.2	0.001
Extreme (-10C)		2305.5041	2314.5012	0.9	0.000
Extreme (-20C)		2305.5041	2314.5012	1.3	0.001
Extreme (-30C)		2305.5041	2314.5012	0.6	0.000
20C	15%	2305.5041	2314.5012	1.3	0.001
	-15%	2305.5041	2314.5012	1.1	0.000
	End Point	2305.5041	2314.5012	1.5	0.001

8.4.11. LTE BAND 41

ID:	38602	Date:	4/4/19

QPSK, (20MHz BANDWIDTH)

Limit		2496	2690	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	2496.9101	2689.0856		
Extreme (50C)		2496.9101	2689.0856	2.9	0.001
Extreme (40C)		2496.9101	2689.0856	3.3	0.001
Extreme (30C)		2496.9101	2689.0856	3.0	0.001
Extreme (10C)		2496.9101	2689.0856	2.8	0.001
Extreme (0C)		2496.9101	2689.0856	3.5	0.001
Extreme (-10C)		2496.9101	2689.0856	3.2	0.001
Extreme (-20C)		2496.9101	2689.0856	3.3	0.001
Extreme (-30C)		2496.9101	2689.0856	3.7	0.001
20C	15%	2496.9101	2689.0856	3.2	0.001
	-15%	2496.9101	2689.0856	3.8	0.001
	End Point	2496.9101	2689.0856	3.3	0.001

8.4.12. LTE BAND 48

ID:	30606	Date:	5/23/19

QPSK, (20MHz BANDWIDTH)

Limit		3550	3700	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)		3550.8100	3699.1802		
Extreme (50C)		3550.8100	3699.1802	-8.8	-0.002
Extreme (40C)		3550.8100	3699.1802	12.7	0.003
Extreme (30C)		3550.8100	3699.1802	1.9	0.001
Extreme (10C)	Normal	3550.8100	3699.1802	-8.1	-0.002
Extreme (0C)		3550.8100	3699.1802	-14.2	-0.004
Extreme (-10C)		3550.8100	3699.1802	-17.3	-0.005
Extreme (-20C)		3550.8100	3699.1802	-16.4	-0.005
Extreme (-30C)		3550.8100	3699.1802	11.2	0.003
20C	15%	3550.8100	3699.1802	-13.2	-0.004
	-15%	3550.8100	3699.1802	-5.9	-0.002
	End Point	3550.8100	3699.1802	-14.6	-0.004

8.4.13. LTE BAND 66

ID:	38602	Date:	4/4/19

QPSK, (20MHz BANDWIDTH)

Limit		1710	1780	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)		1711.0014	1779.0989		
Extreme (50C)		1711.0014	1779.0989	1.7	0.001
Extreme (40C)		1711.0014	1779.0989	1.9	0.001
Extreme (30C)		1711.0014	1779.0989	1.7	0.001
Extreme (10C)	Normal	1711.0014	1779.0989	1.8	0.001
Extreme (0C)		1711.0014	1779.0989	1.6	0.001
Extreme (-10C)		1711.0014	1779.0989	2.0	0.001
Extreme (-20C)		1711.0014	1779.0989	1.8	0.001
Extreme (-30C)		1711.0014	1779.0989	1.4	0.001
20C	15%	1711.0014	1779.0989	1.6	0.001
	-15%	1711.0014	1779.0989	1.2	0.001
	End Point	1711.0014	1779.0989	1.7	0.001

8.4.14. LTE BAND 71

ID:	30606	Date:	4/4/19

QPSK, (20MHz BANDWIDTH)

Limit		663	698	Delta (Hz)	Frequency Stability (ppm)
Condition		F low @ -13dBm	F high @ -13dBm		
Temperature	Voltage	(MHz)	(MHz)		
Normal (20C)	Normal	663.9870	697.0122		
Extreme (50C)		663.9870	697.0122	1.0	0.001
Extreme (40C)		663.9870	697.0122	1.1	0.002
Extreme (30C)		663.9870	697.0122	1.3	0.002
Extreme (10C)		663.9870	697.0122	0.9	0.001
Extreme (0C)		663.9870	697.0122	1.5	0.002
Extreme (-10C)		663.9870	697.0122	1.3	0.002
Extreme (-20C)		663.9870	697.0122	1.0	0.001
Extreme (-30C)		663.9870	697.0122	1.1	0.002
20C	15%	663.9870	697.0122	1.5	0.002
	-15%	663.9870	697.0122	1.3	0.002
	End Point	663.9870	697.0122	1.6	0.002

8.5. PEAK-TO-AVERAGE POWER RATIOLIMIT

In addition, the peak-to-average power ratio (PAPR) of the transmitter shall not exceed 13 dB for more than 0.1% of the time and shall use a signal corresponding to the highest PAPR during periods of continuous transmission.

MODES TESTED

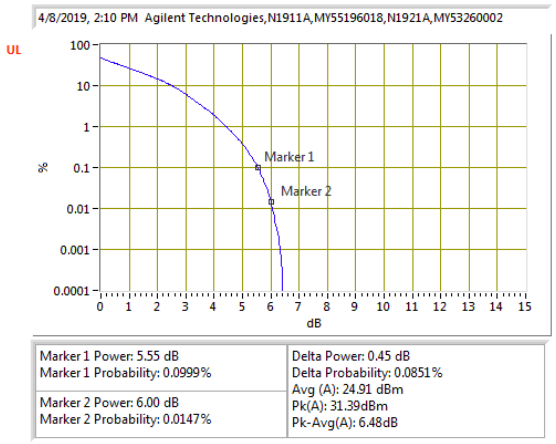
- LTE Band 2
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 14
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 30
- LTE Band 41
- LTE Band 48
- LTE Band 66
- LTE Band 71

RESULT

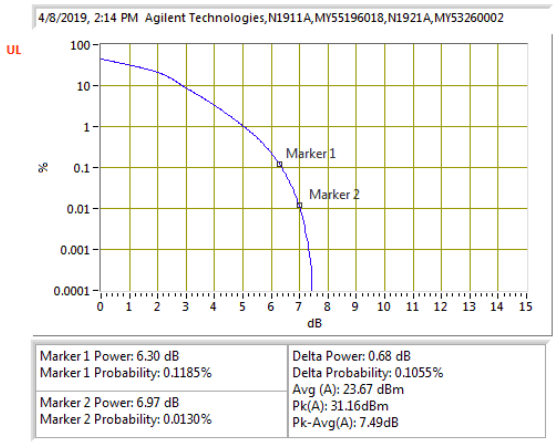
Antenna 1 was used to measure as the worst case; full resource block (FRB) for each bandwidth was used to measure as the worst case. The results from all CCDF measurements are passed with 13dB peak-to-average power ratio criteria.

ID:	39004	Date:	4/8/19

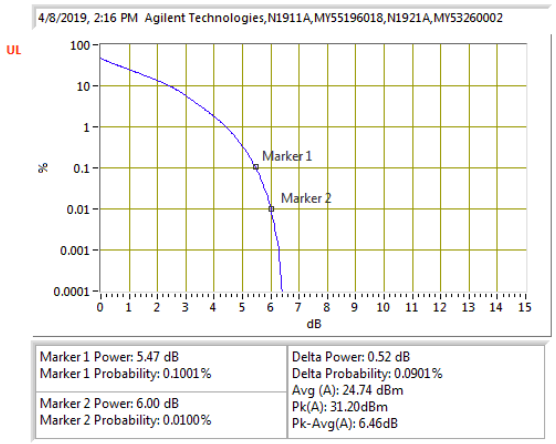
8.5.1. LTE BAND 2



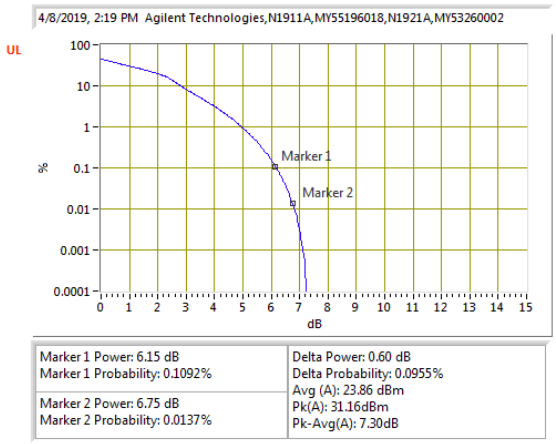
LTE B2 1.4MHz QPSK Middle Channel ID:39004



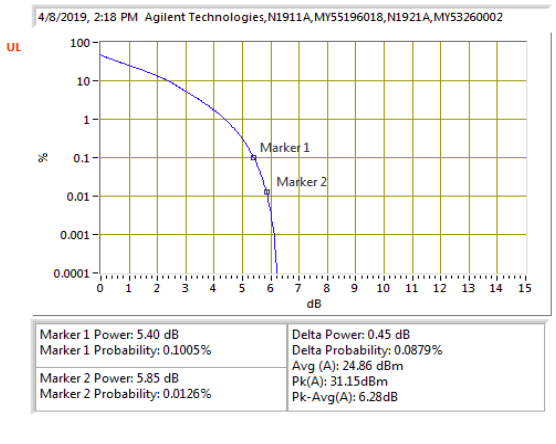
LTE B2 1.4MHz 16QAM Middle Channel ID:39004



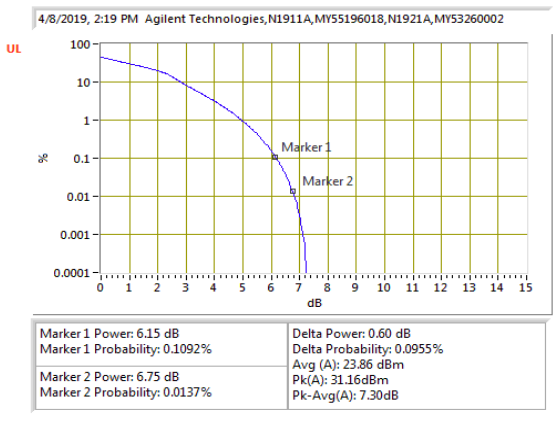
LTE B2 3MHz QPSK Middle Channel ID:39004



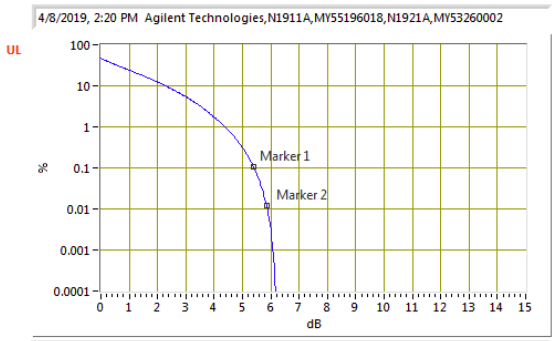
LTE B2 3MHz 16QAM Middle Channel ID:39004



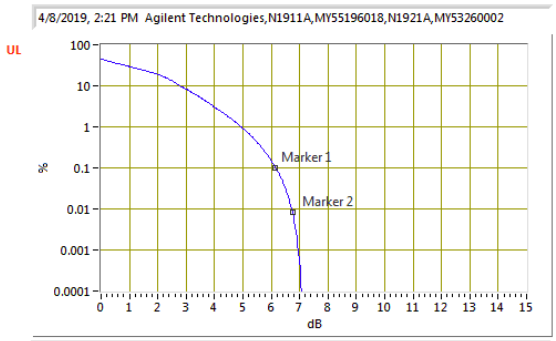
LTE B2 5MHz QPSK Middle Channel ID:39004



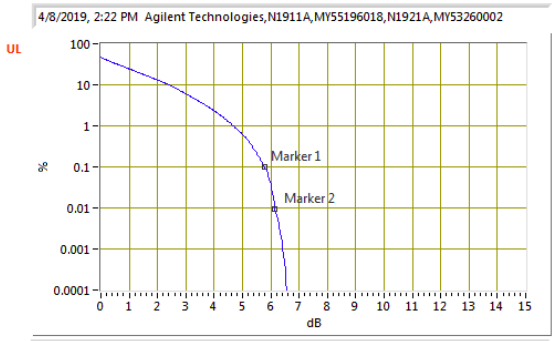
LTE B2 5MHz 16QAM Middle Channel ID:39004



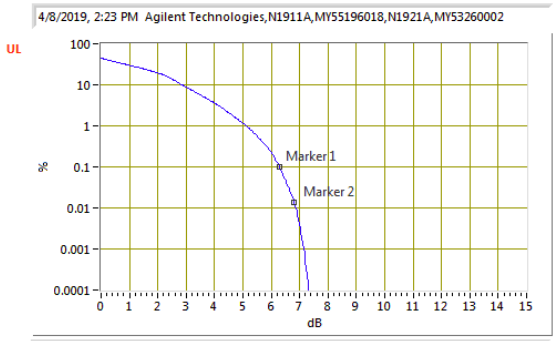
LTE B2 10MHz QPSK Middle Channel ID:39004



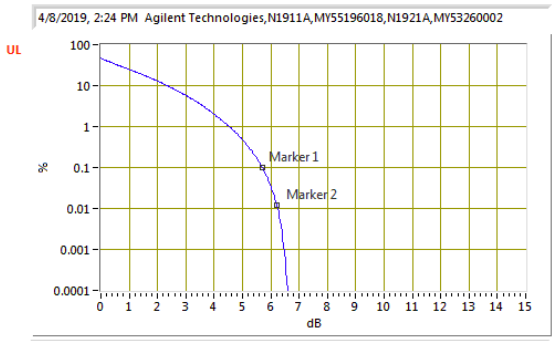
LTE B2 10MHz 16QAM Middle Channel ID:39004



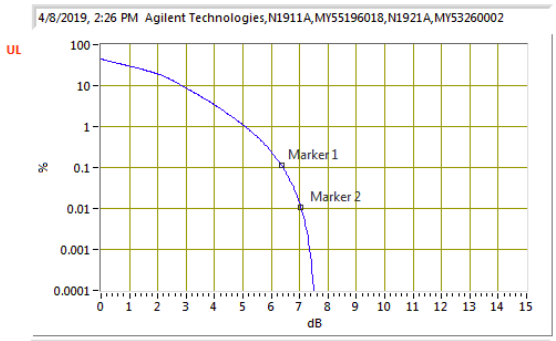
LTE B2 15MHz QPSK Middle Channel ID:39004



LTE B2 15MHz 16QAM Middle Channel ID:39004

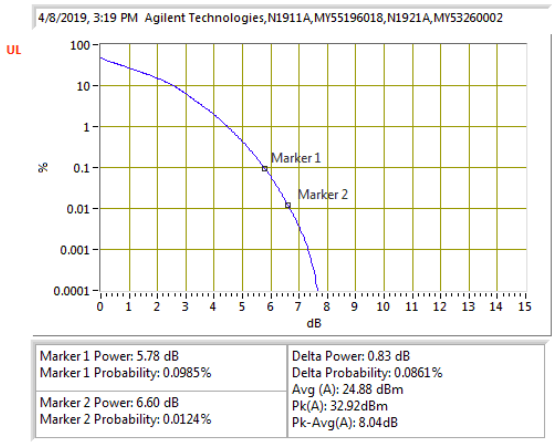


LTE B2 20MHz QPSK Middle Channel ID:39004

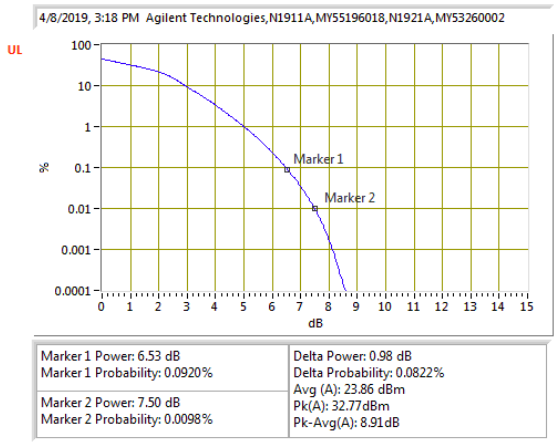


LTE B2 20MHz 16QAM Middle Channel ID:39004

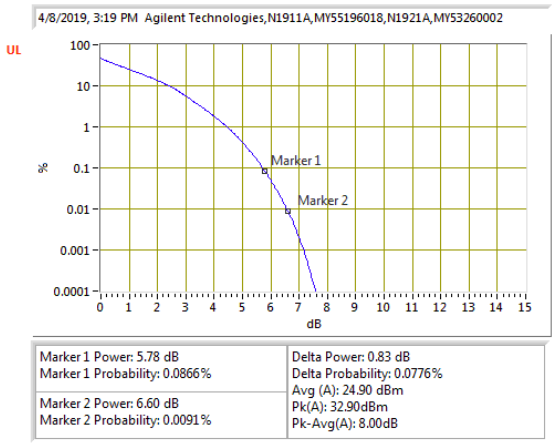
8.5.2. LTE BAND 5



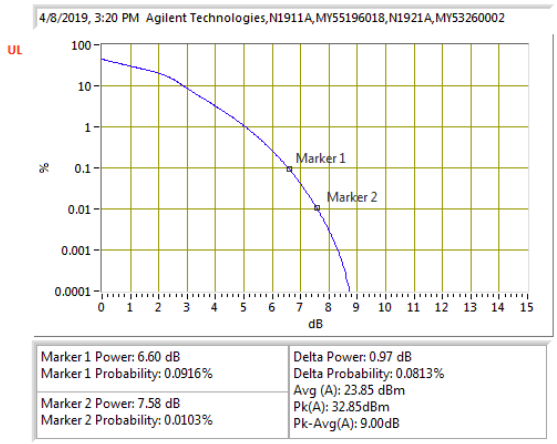
LTE B5 1.4MHz QPSK Middle Channel ID:39004



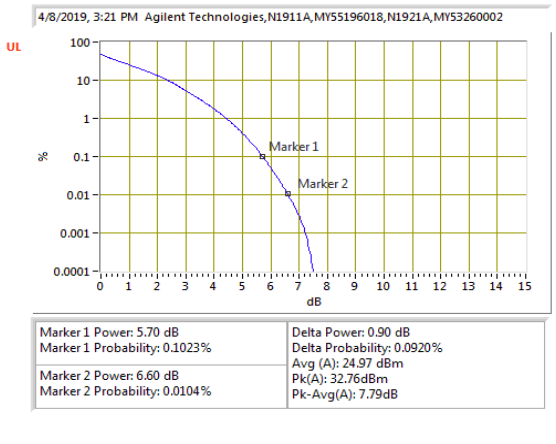
LTE B5 1.4MHz 16QAM Middle Channel ID:39004



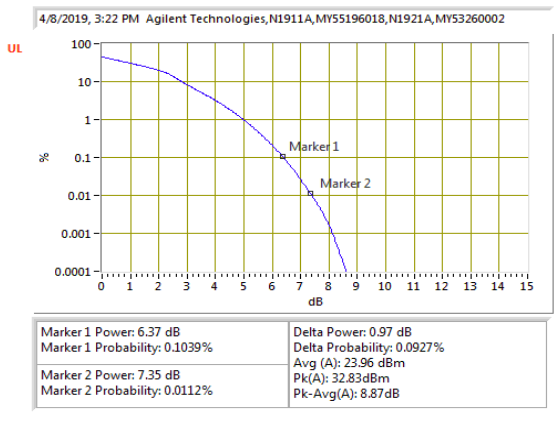
LTE B5 3MHz QPSK Middle Channel ID:39004



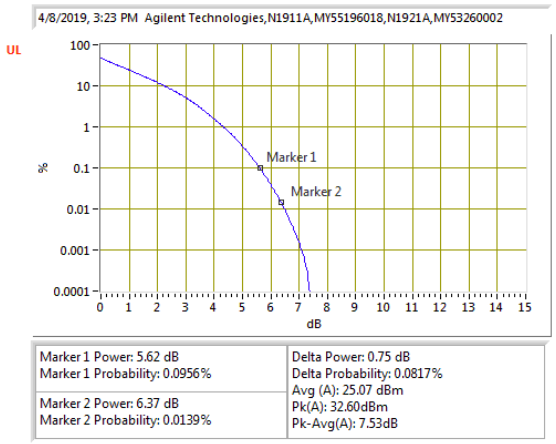
LTE B5 3MHz 16QAM Middle Channel ID:39004



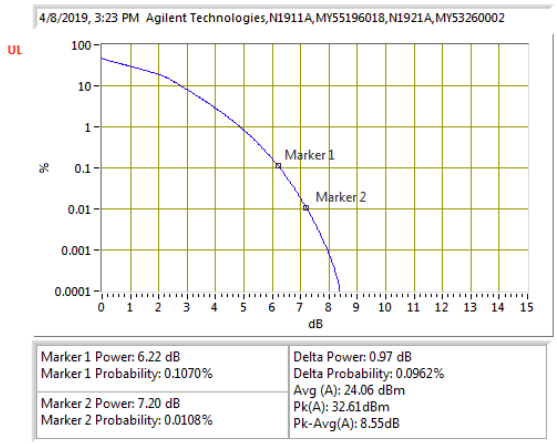
LTE B5 5MHz QPSK Middle Channel ID:39004



LTE B5 5MHz 16QAM Middle Channel ID:39004

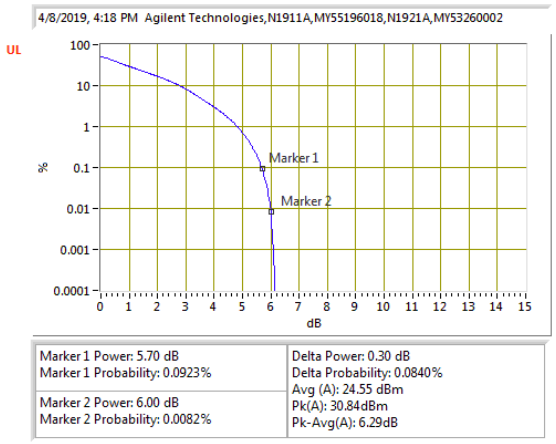


LTE B5 10MHz QPSK Middle Channel ID:39004

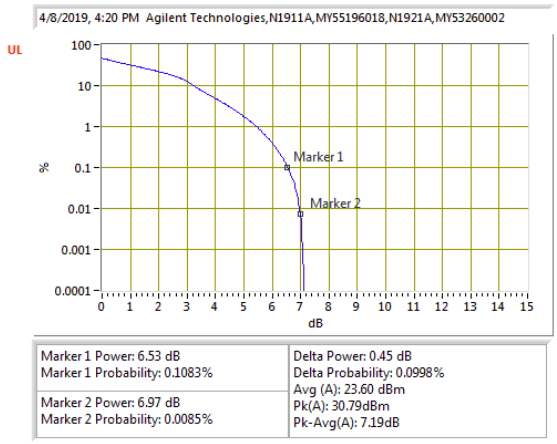


LTE B5 10MHz 16QAM Middle Channel ID:39004

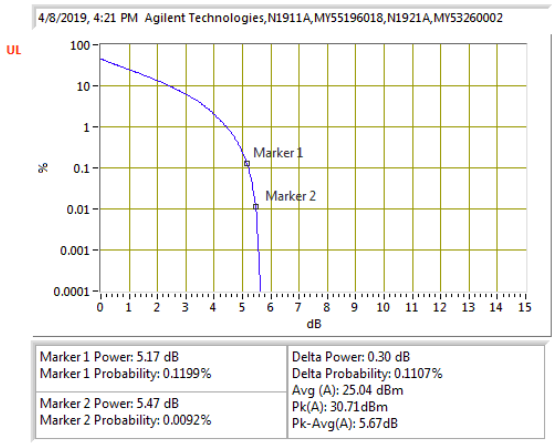
8.5.3. LTE BAND 7



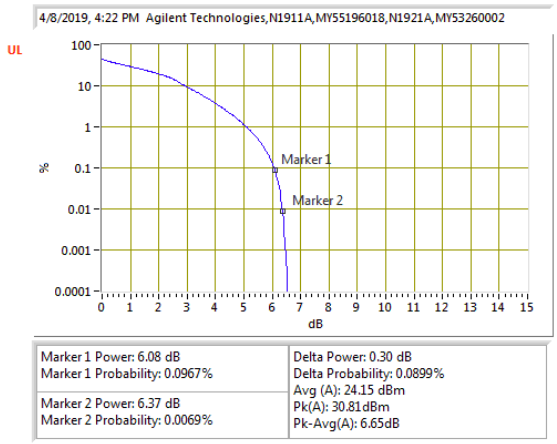
LTE B7 5MHz QPSK Middle Channel ID:39004



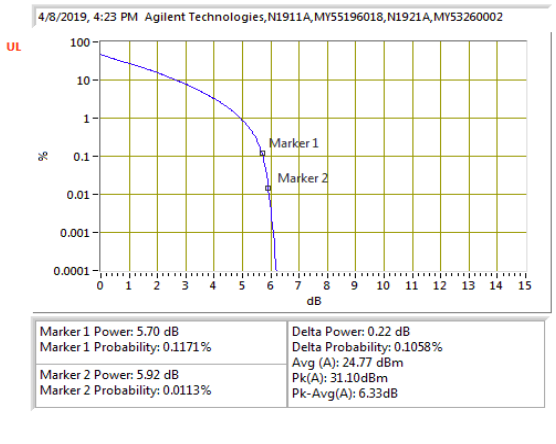
LTE B7 5MHz 16QAM Middle Channel ID:39004



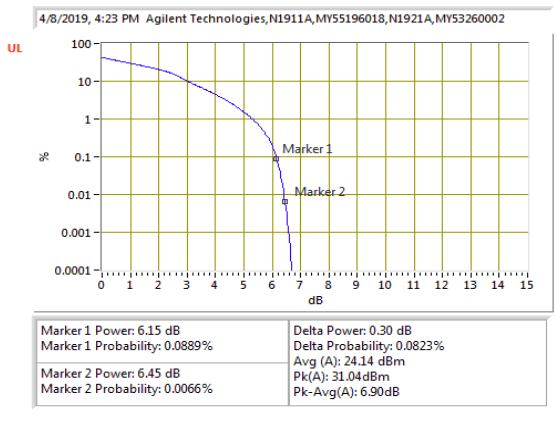
LTE B7 10MHz QPSK Middle Channel ID:39004



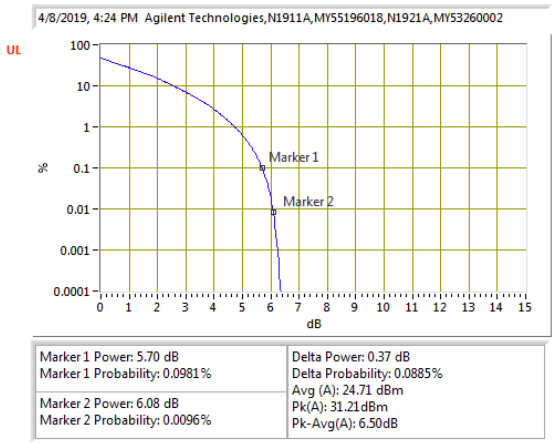
LTE B7 10MHz 16QAM Middle Channel ID:39004



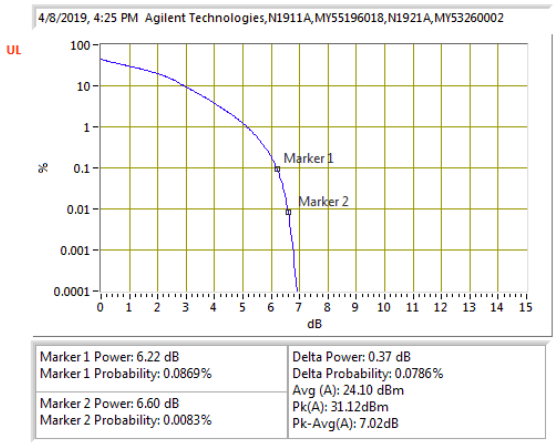
LTE B7 15MHz QPSK Middle Channel ID:39004



LTE B7 15MHz 16QAM Middle Channel ID:39004

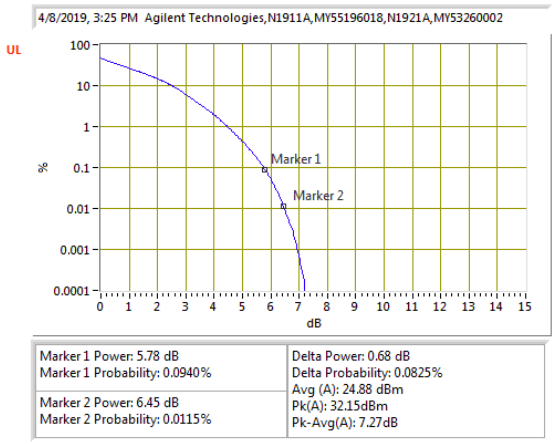


LTE B7 20MHz QPSK Middle Channel ID:39004

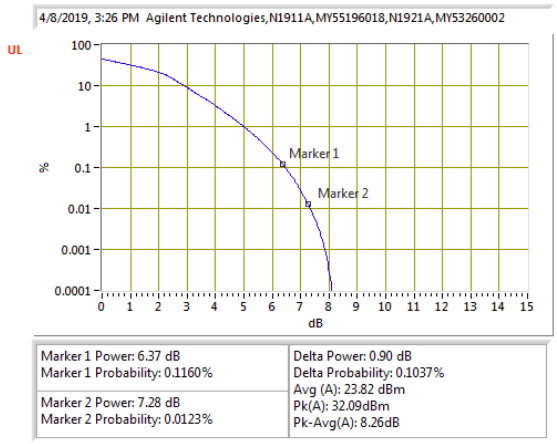


LTE B7 20MHz 16QAM Middle Channel ID:39004

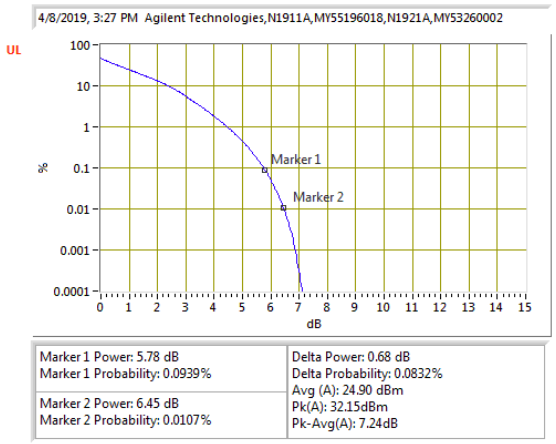
8.5.4. LTE BAND 12



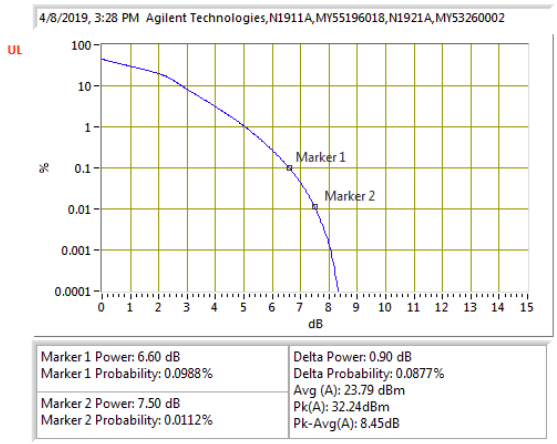
LTE B12 1.4MHz QPSK Middle Channel ID:39004



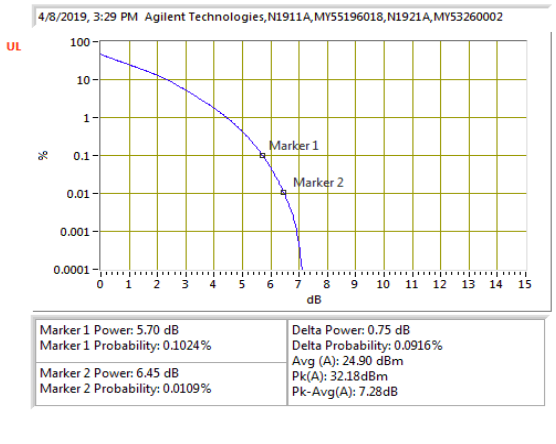
LTE B12 1.4MHz 16QAM Middle Channel ID:39004



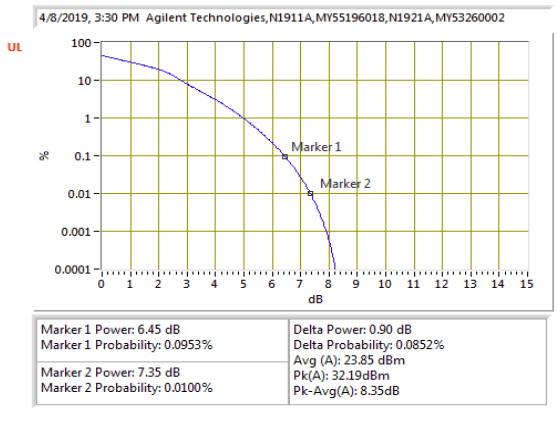
LTE B12 3MHz QPSK Middle Channel ID:39004



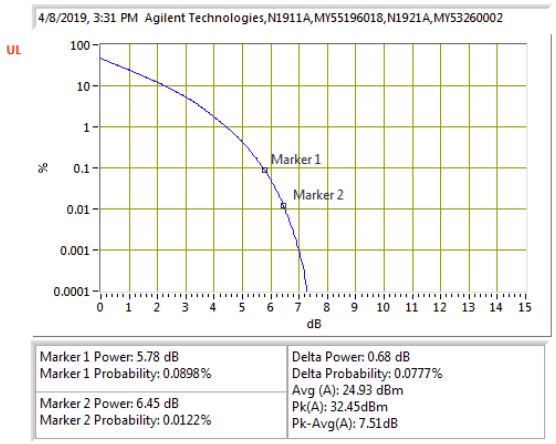
LTE B12 3MHz 16QAM Middle Channel ID:39004



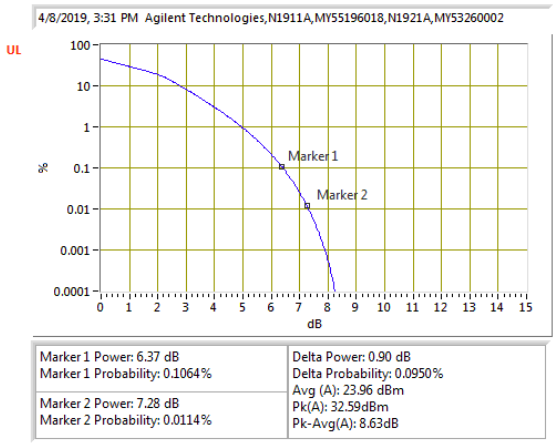
LTE B12 5MHz QPSK Middle Channel ID:39004



LTE B12 5MHz 16QAM Middle Channel ID:39004

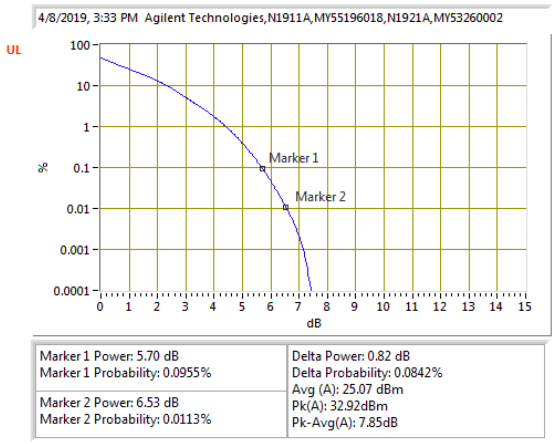


LTE B12 10MHz QPSK Middle Channel ID:39004

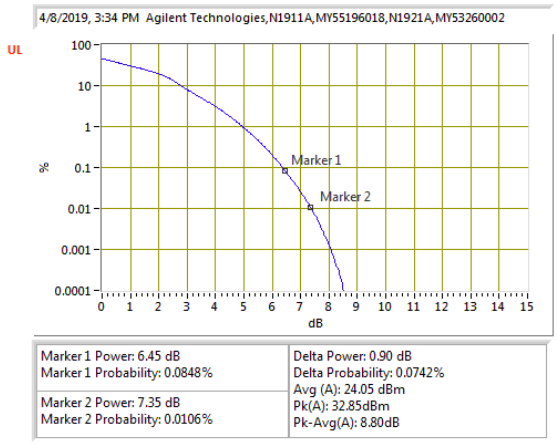


LTE B12 10MHz 16QAM Middle Channel ID:39004

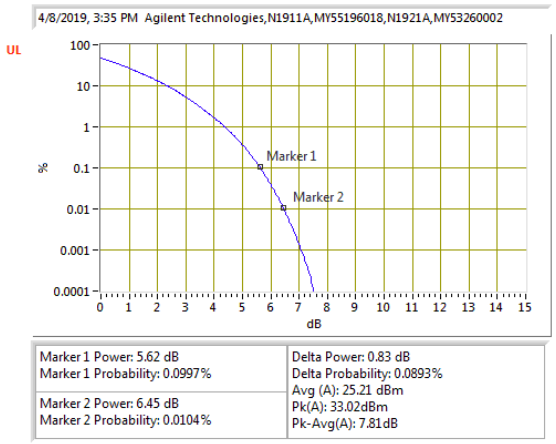
8.5.5. LTE BAND 13



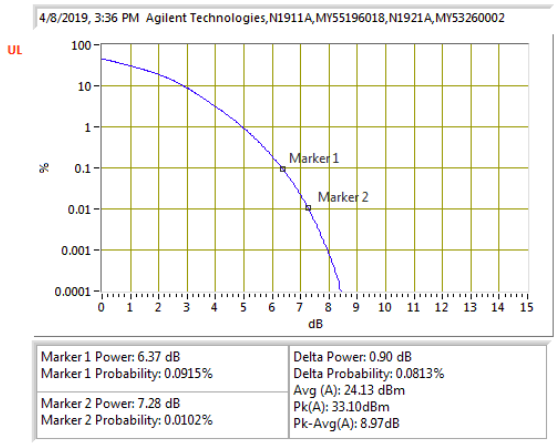
LTE B13 5MHz QPSK Middle Channel ID:39004



LTE B13 5MHz 16QAM Middle Channel ID:39004

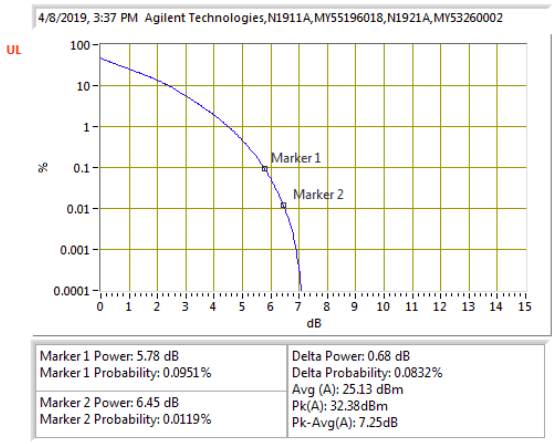


LTE B13 10MHz QPSK Middle Channel ID:39004

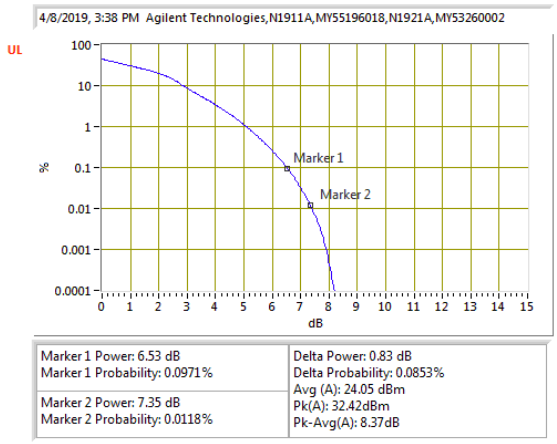


LTE B13 10MHz 16QAM Middle Channel ID:39004

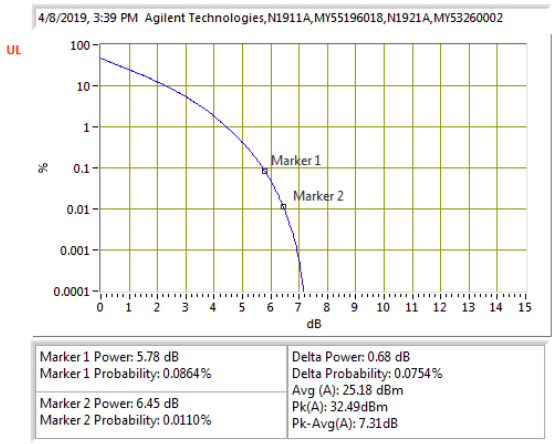
8.5.6. LTE BAND 14



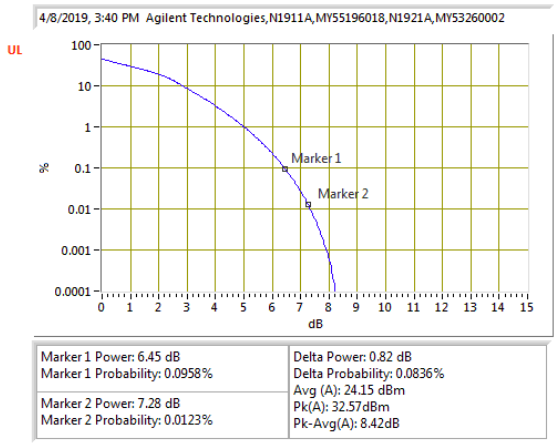
LTE B14 5MHz QPSK Middle Channel ID:39004



LTE B14 5MHz 16QAM Middle Channel ID:39004

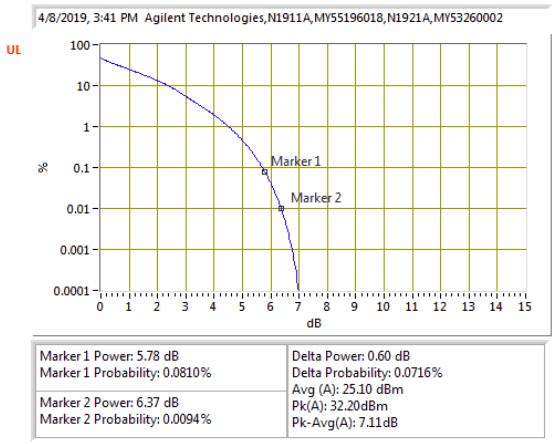


LTE B14 10MHz QPSK Middle Channel ID:39004

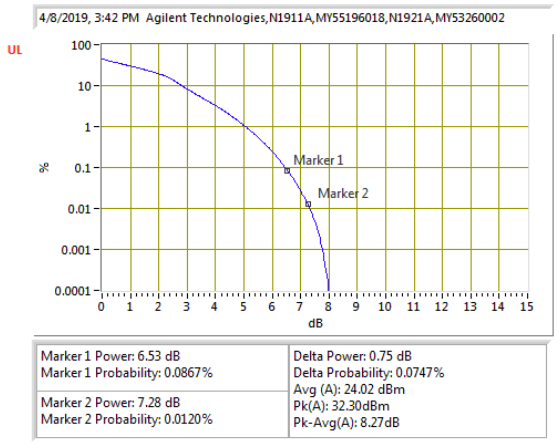


LTE B14 10MHz 16QAM Middle Channel ID:39004

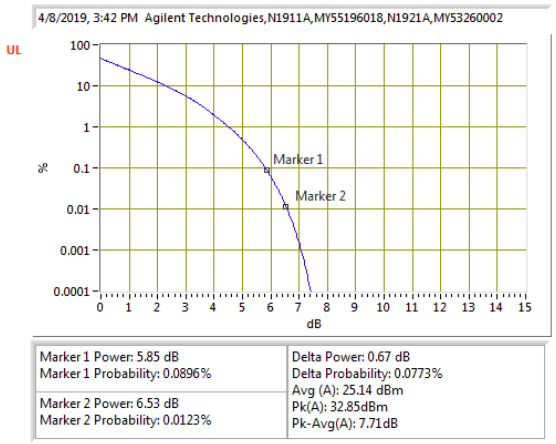
8.5.7. LTE BAND 17



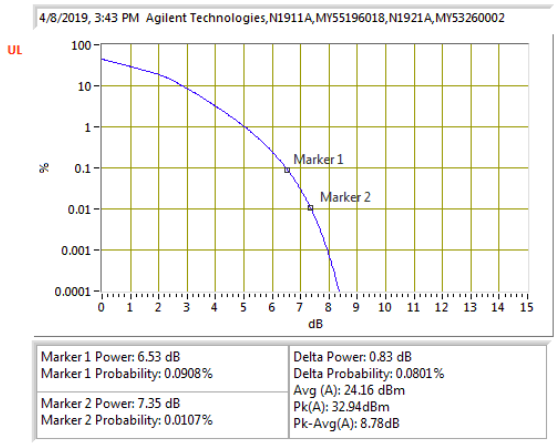
LTE B17 5MHz QPSK Middle Channel ID:39004



LTE B17 5MHz 16QAM Middle Channel ID:39004

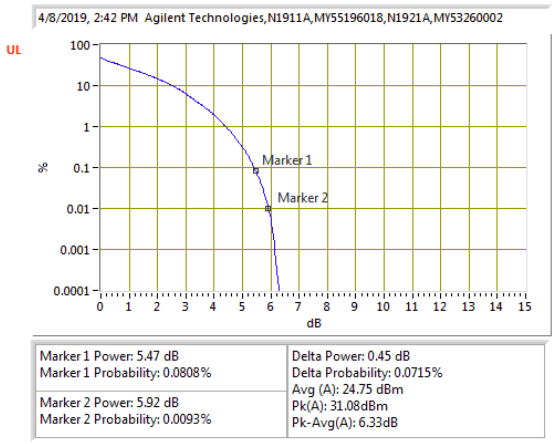


LTE B17 10MHz QPSK Middle Channel ID:39004

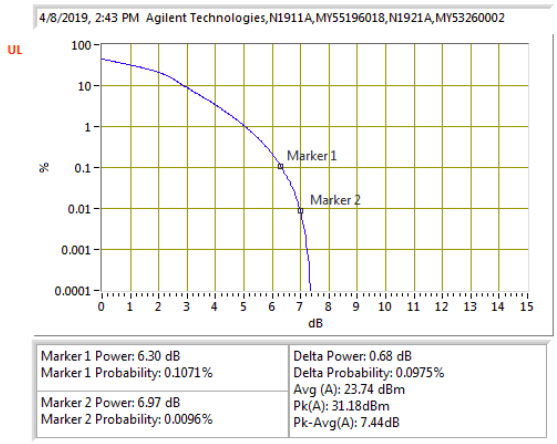


LTE B17 10MHz 16QAM Middle Channel ID:39004

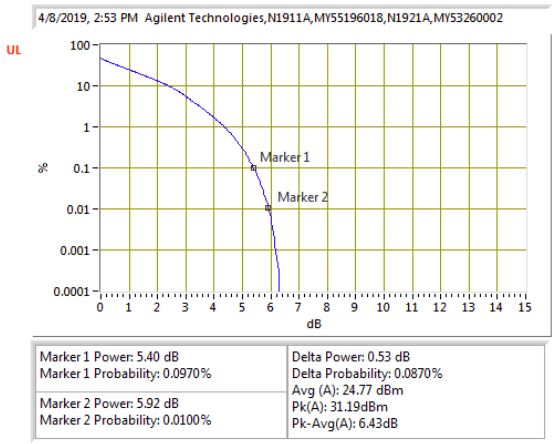
8.5.8. LTE BAND 25



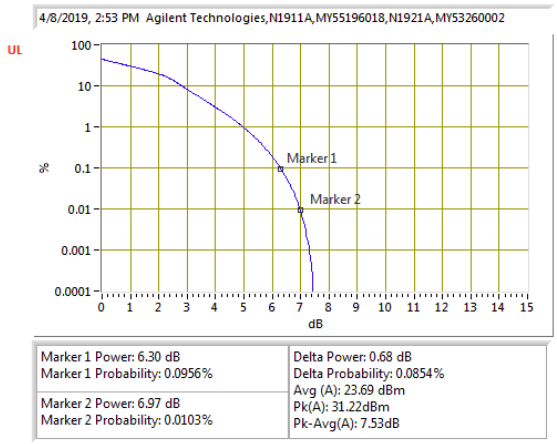
LTE B25 1.4MHz QPSK Middle Channel ID:39004



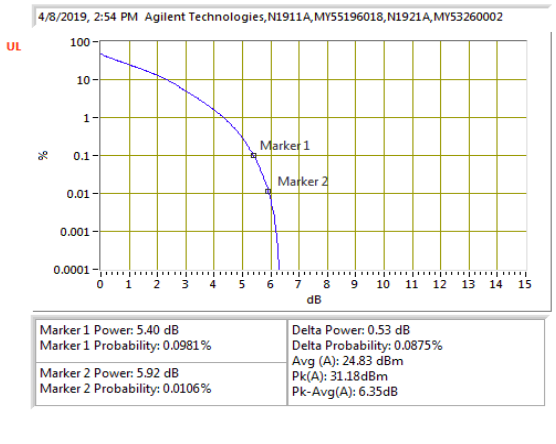
LTE B25 1.4MHz 16QAM Middle Channel ID:39004



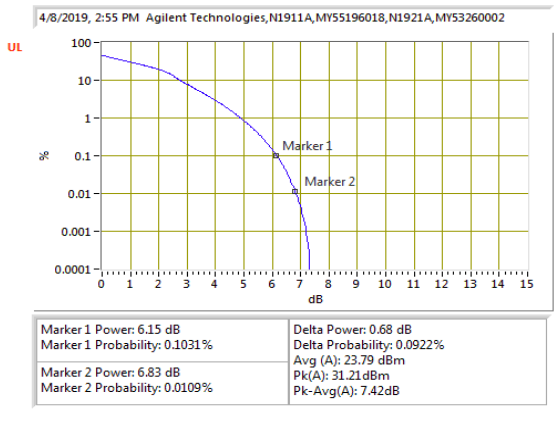
LTE B25 3MHz QPSK Middle Channel ID:39004



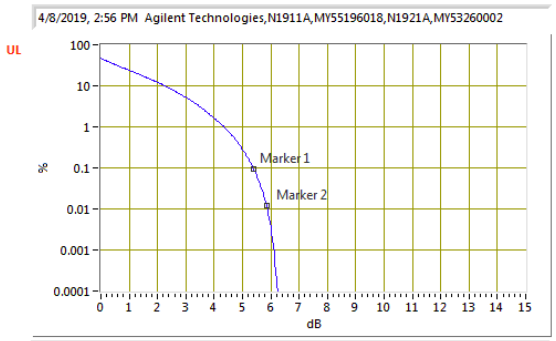
LTE B25 3MHz 16QAM Middle Channel ID:39004



LTE B2 5MHz QPSK Middle Channel ID:39004

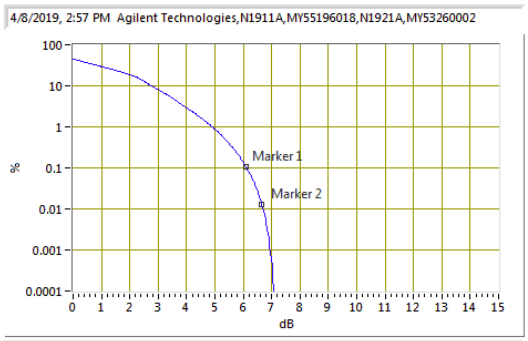


LTE B2 5MHz 16QAM Middle Channel ID:39004



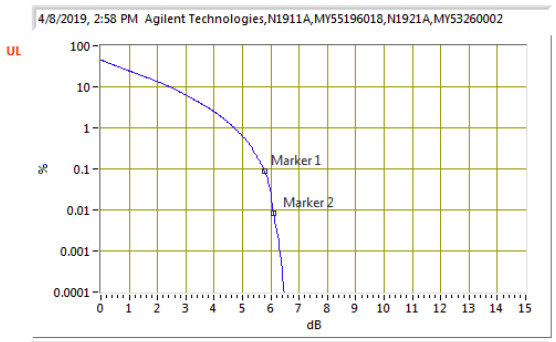
Marker 1 Power: 5.40 dB Marker 1 Probability: 0.0946%	Delta Power: 0.45 dB Delta Probability: 0.0825%
Marker 2 Power: 5.85 dB Marker 2 Probability: 0.0121%	Avg (A): 25.01 dBm Pk(A): 31.37dBm Pk-Avg(A): 6.36dB

LTE B25 10MHz QPSK Middle Channel ID:39004



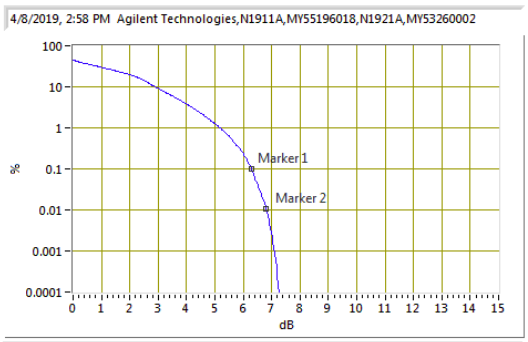
Marker 1 Power: 6.08 dB Marker 1 Probability: 0.1106%	Delta Power: 0.60 dB Delta Probability: 0.0988%
Marker 2 Power: 6.67 dB Marker 2 Probability: 0.0119%	Avg (A): 24.07 dBm Pk(A): 31.33dBm Pk-Avg(A): 7.26dB

LTE B25 10MHz 16QAM Middle Channel ID:39004



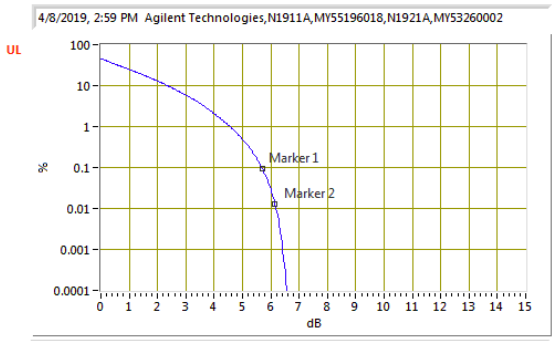
Marker 1 Power: 5.78 dB Marker 1 Probability: 0.0928%	Delta Power: 0.30 dB Delta Probability: 0.0826%
Marker 2 Power: 6.08 dB Marker 2 Probability: 0.0102%	Avg (A): 25.02 dBm Pk(A): 31.71dBm Pk-Avg(A): 6.70dB

LTE B25 15MHz QPSK Middle Channel ID:39004



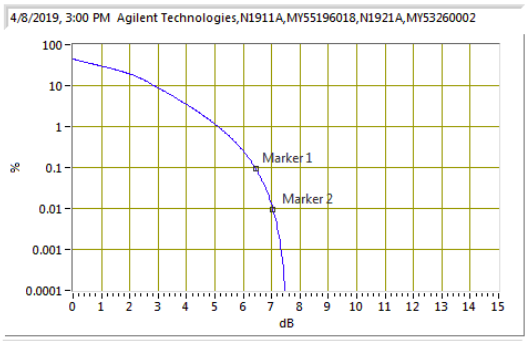
Marker 1 Power: 6.30 dB Marker 1 Probability: 0.0970%	Delta Power: 0.53 dB Delta Probability: 0.0874%
Marker 2 Power: 6.83 dB Marker 2 Probability: 0.0097%	Avg (A): 24.09 dBm Pk(A): 31.57dBm Pk-Avg(A): 7.48dB

LTE B25 15MHz 16QAM Middle Channel ID:39004



Marker 1 Power: 5.70 dB Marker 1 Probability: 0.0943%	Delta Power: 0.45 dB Delta Probability: 0.0814%
Marker 2 Power: 6.15 dB Marker 2 Probability: 0.0129%	Avg (A): 25.02 dBm Pk(A): 31.78dBm Pk-Avg(A): 6.76dB

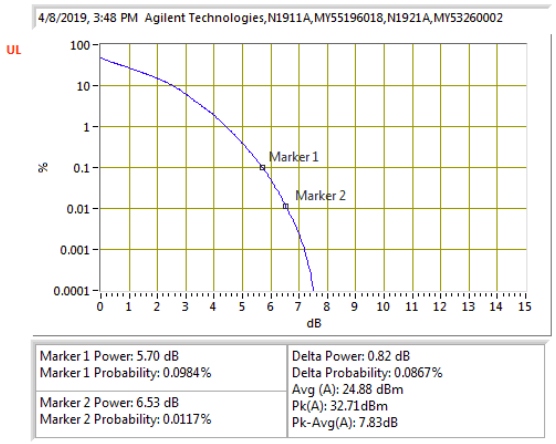
LTE B25 20MHz QPSK Middle Channel ID:39004



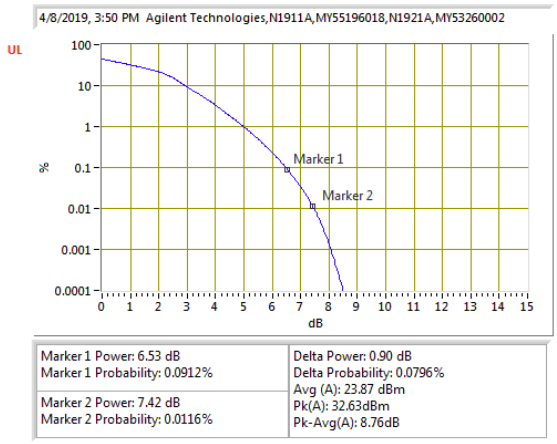
Marker 1 Power: 6.45 dB Marker 1 Probability: 0.0914%	Delta Power: 0.60 dB Delta Probability: 0.0819%
Marker 2 Power: 7.05 dB Marker 2 Probability: 0.0095%	Avg (A): 24.02 dBm Pk(A): 31.64dBm Pk-Avg(A): 7.61dB

LTE B25 20MHz 16QAM Middle Channel ID:39004

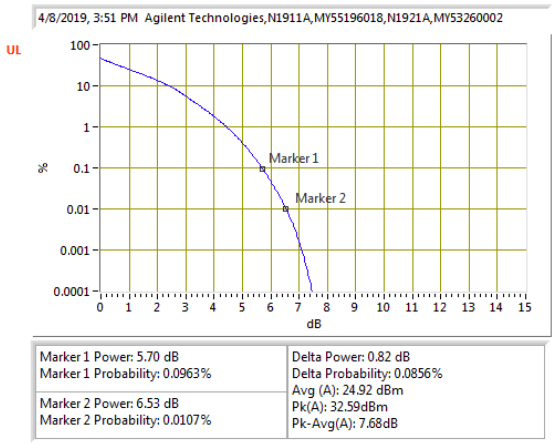
8.5.9. LTE BAND 26



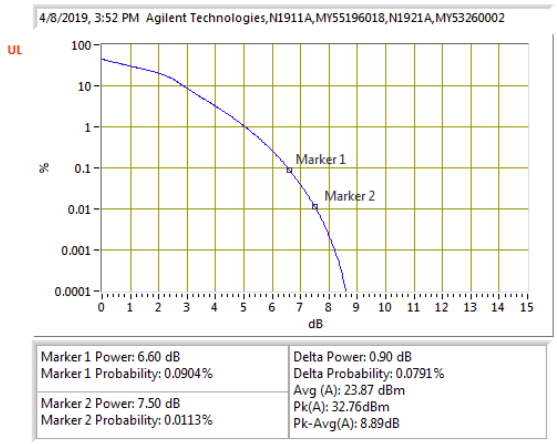
LTE B26 1.4MHz QPSK Middle Channel ID:39004



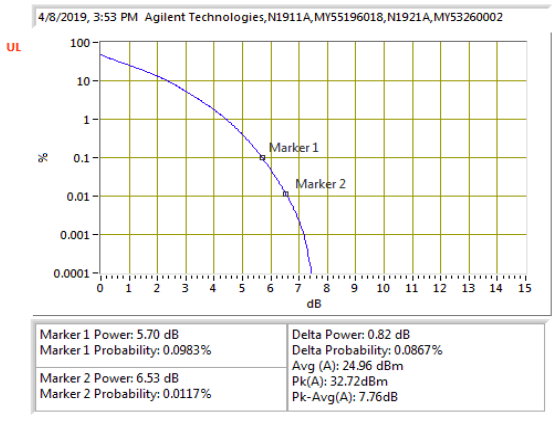
LTE B26 1.4MHz 16QAM Middle Channel ID:39004



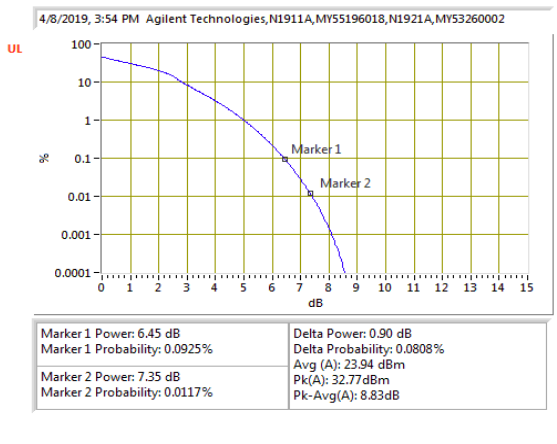
LTE B26 3MHz QPSK Middle Channel ID:39004



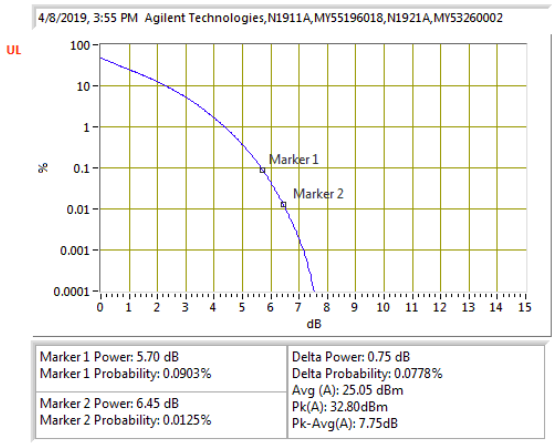
LTE B26 3MHz 16QAM Middle Channel ID:39004



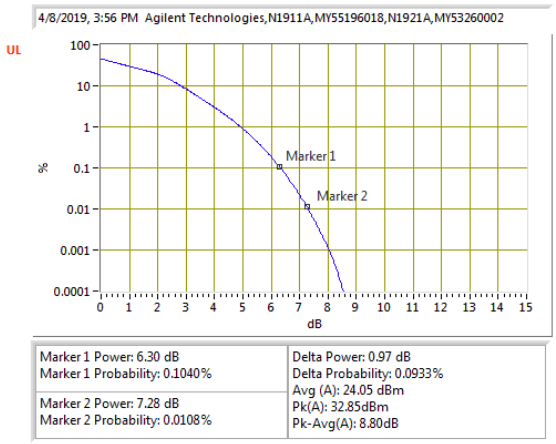
LTE B26 5MHz QPSK Middle Channel ID:39004



LTE B26 5MHz 16QAM Middle Channel ID:39004

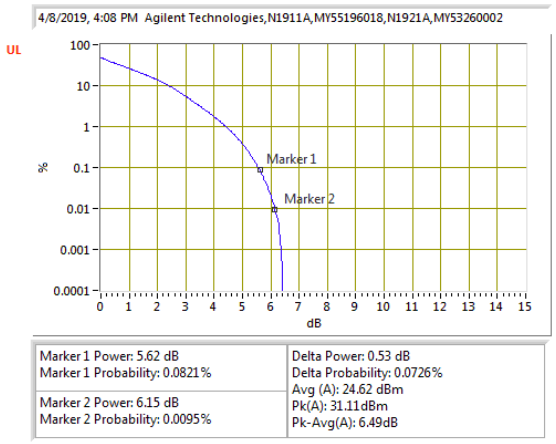


LTE B26 10MHz QPSK Middle Channel ID:39004

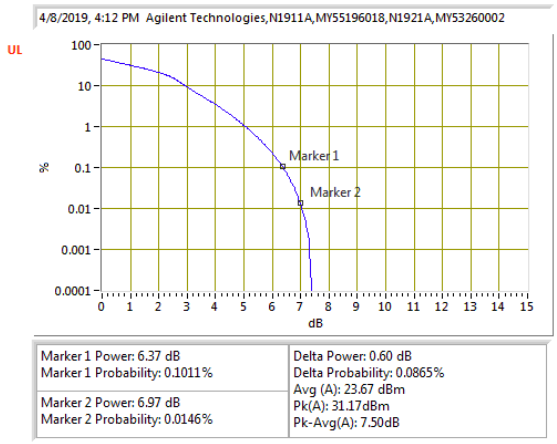


LTE B26 10MHz 16QAM Middle Channel ID:39004

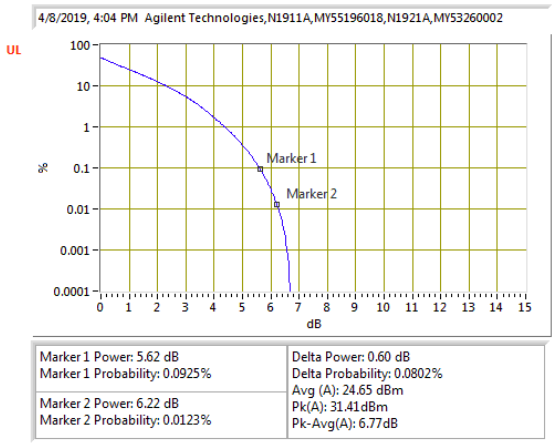
8.5.10. LTE BAND 30



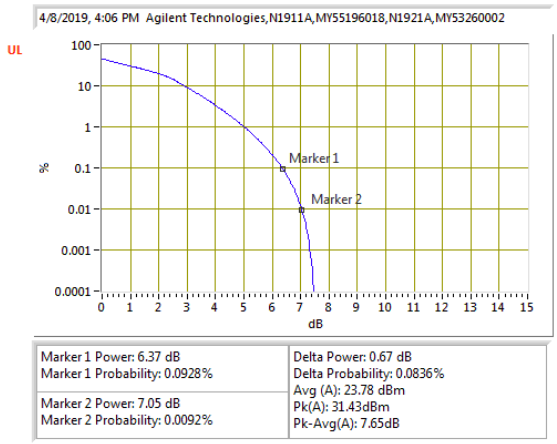
LTE B30 5MHz QPSK Middle Channel ID:39004



LTE B30 5MHz 16QAM Middle Channel ID:39004



LTE B30 10MHz QPSK Middle Channel ID:39004



LTE B30 10MHz 16QAM Middle Channel ID:39004

8.5.11. LTE BAND 41

ID:	39004	Date:	4/9/19

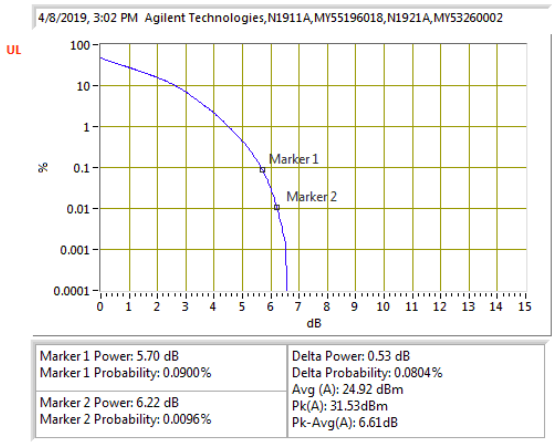
Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
Band 41	5MHz	2593.0	25	0	QPSK	34.08	20.22	6.82
					16QAM	33.92	19.24	7.64
	10MHz		50	0	QPSK	33.90	20.33	6.53
					16QAM	33.94	19.40	7.50
	15MHz		75	0	QPSK	33.97	20.29	6.64
					16QAM	33.86	19.36	7.46
	20MHz		100	0	QPSK	33.93	20.31	6.58
					16QAM	33.86	19.34	7.48
Duty Cycle Correction Factor (dB) =			7.04					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

8.5.12. LTE BAND 48

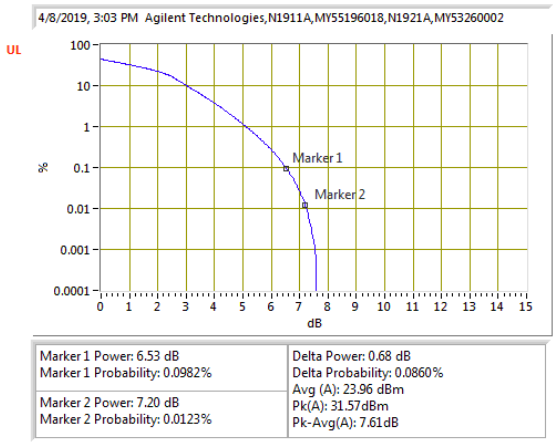
ID:	39004	Date:	6/6/19

Band	Bandwidth (MHz)	Frequency (MHz)	RB Allocation	RB OffSet	Modulation	Conducted Power (dBm)		Peak-to-Average Power Ratio (dB)
						Peak	Average	
Band 48	5MHz	3625.0	25	0	QPSK	29.58	15.43	7.11
					16QAM	29.68	14.29	8.35
	10MHz		50	0	QPSK	29.51	15.43	7.04
					16QAM	29.50	14.37	8.09
	15MHz		75	0	QPSK	29.34	15.34	6.96
					16QAM	29.35	14.32	7.99
	20MHz		100	0	QPSK	29.40	15.41	6.95
					16QAM	29.46	14.41	8.01
Duty Cycle Correction Factor (dB) =			7.04					
Peak-to-Average Power Ratio= Peak Reading - Average Reading - Duty Cycle Correction Factor								

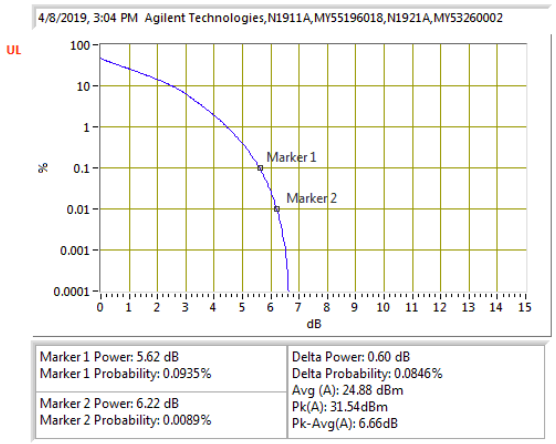
8.5.13. LTE BAND 66



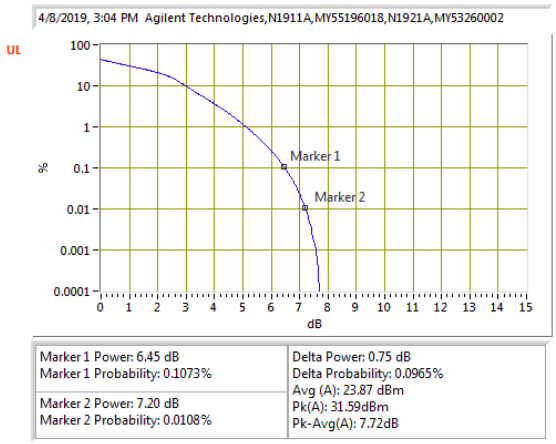
LTE B66 1.4MHz QPSK Middle Channel ID:39004



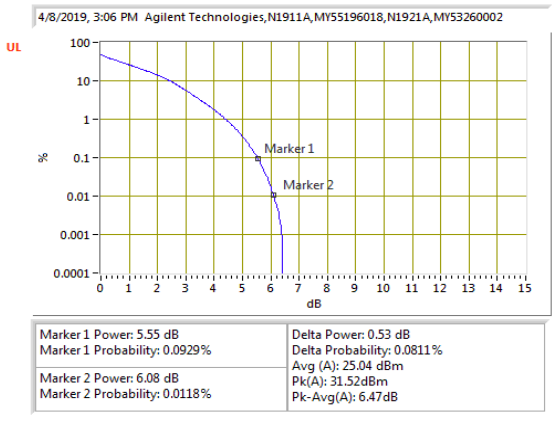
LTE B66 1.4MHz 16QAM Middle Channel ID:39004



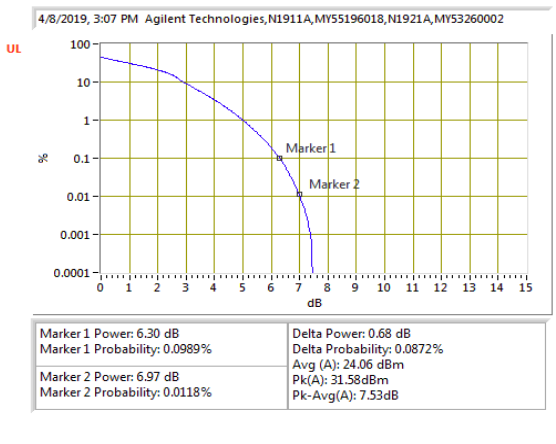
LTE B66 3MHz QPSK Middle Channel ID:39004



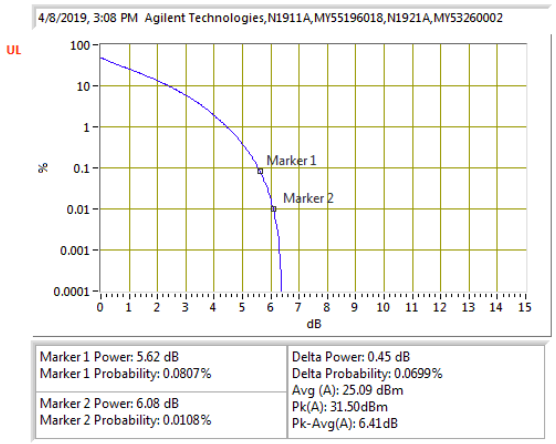
LTE B66 3MHz 16QAM Middle Channel ID:39004



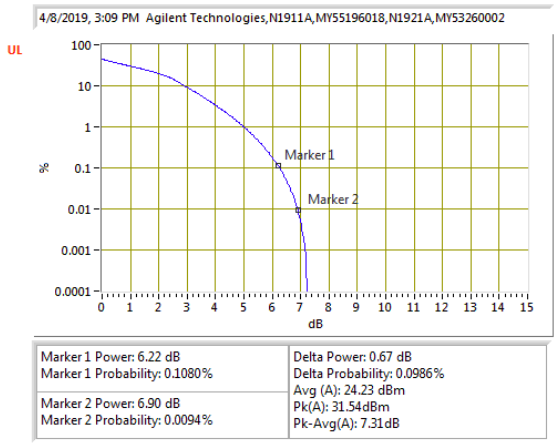
LTE B66 5MHz QPSK Middle Channel ID:39004



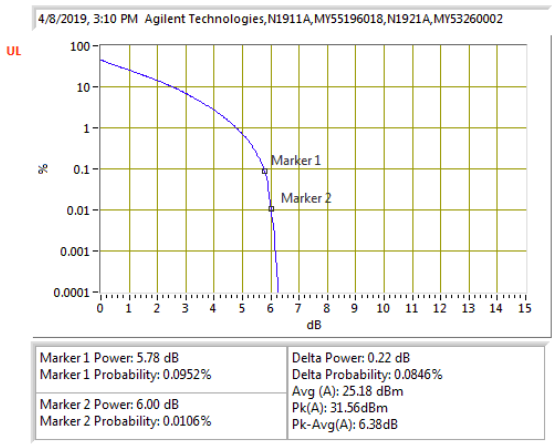
LTE B66 5MHz 16QAM Middle Channel ID:39004



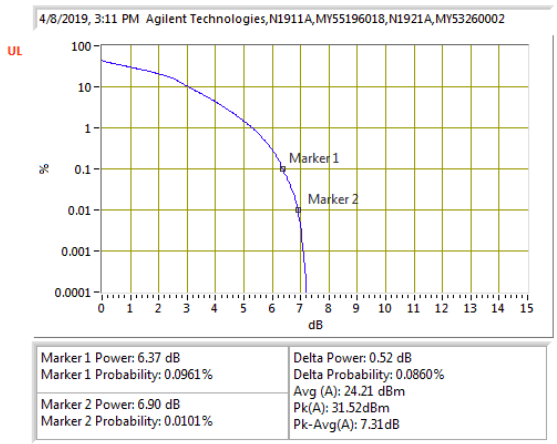
LTE B66 10MHz QPSK Middle Channel ID:39004



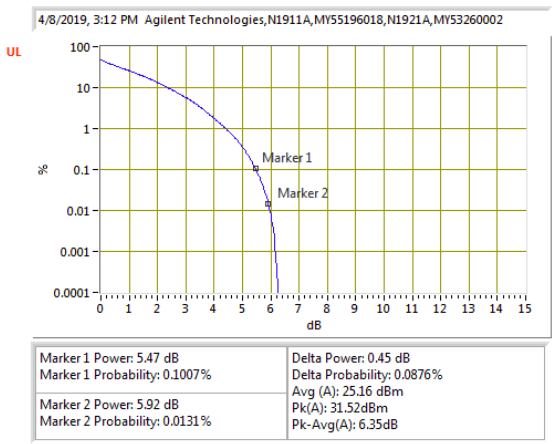
LTE B66 10MHz 16QAM Middle Channel ID:39004



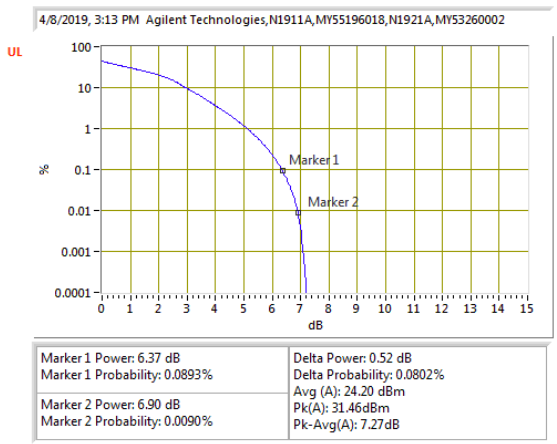
LTE B66 15MHz QPSK Middle Channel ID:39004



LTE B66 15MHz 16QAM Middle Channel ID:39004

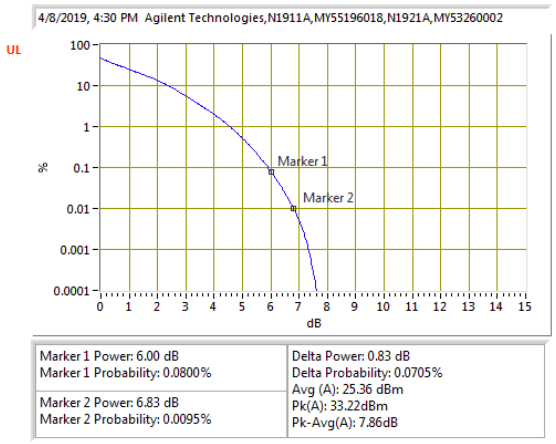


LTE B66 20MHz QPSK Middle Channel ID:39004

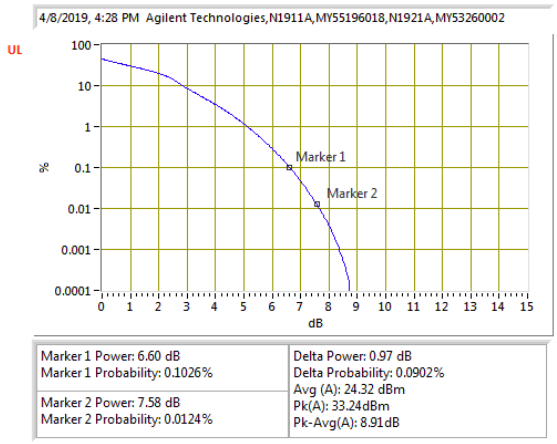


LTE B66 20MHz 16QAM Middle Channel ID:39004

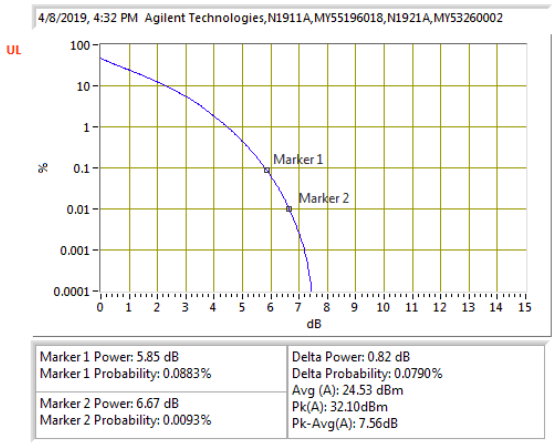
8.5.14. LTE BAND 71



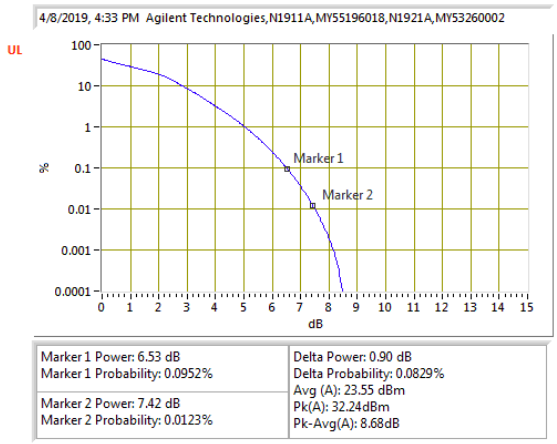
LTE B71 5MHz QPSK Middle Channel ID:39004



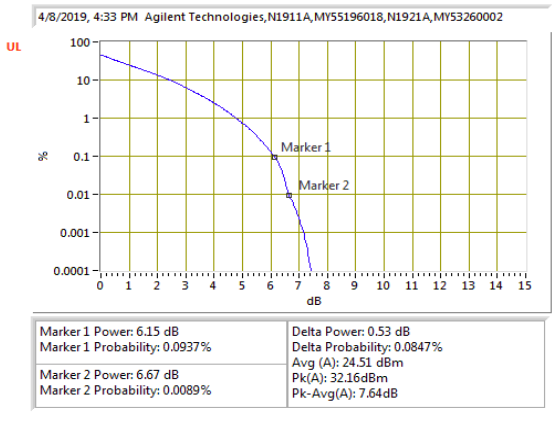
LTE B71 5MHz 16QAM Middle Channel ID:39004



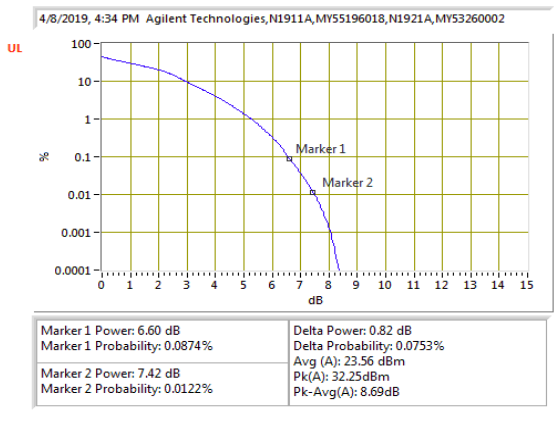
LTE B71 10MHz QPSK Middle Channel ID:39004



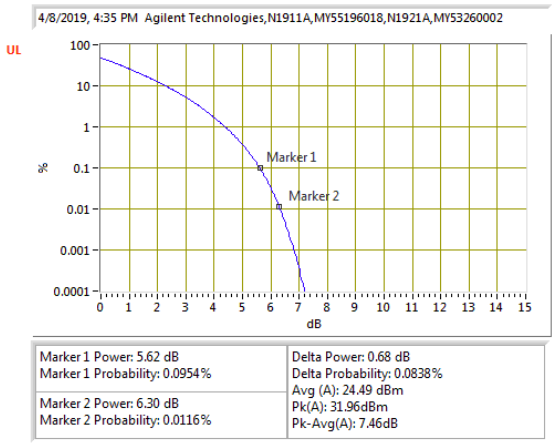
LTE B71 10MHz 16QAM Middle Channel ID:39004



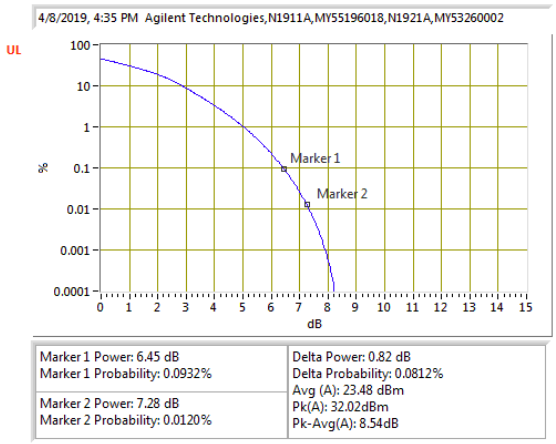
LTE B71 15MHz QPSK Middle Channel ID:39004



LTE B71 15MHz 16QAM Middle Channel ID:39004



LTE B71 20MHz QPSK Middle Channel ID:39004



LTE B71 20MHz 16QAM Middle Channel ID:39004

9. RADIATED TEST RESULTS

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53, §90.669, §90.691, §96.41, and §90.543

LIMIT

§22.917(a), §24.238(a), §27.53 (g), (h), §90.691
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.

§27.53 (Band 13)
(c) 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.
(f) Emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals. (-70 dBW/MHz = -40dBm/MHz).

§90.543 Emission Limitations. (Band 14)
(e) For operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the 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, in accordance with the following:
(3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

(f) For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

FCC: § 90.669 Emission limits. (Band 26)
(a) On any frequency in an MTA licensee's spectrum block that is adjacent to a non-MTA frequency, the power of any emission shall be attenuated below the transmitter power (P) by at least 43 plus 10 log10(P) decibels or 80 decibels, whichever is the lesser attenuation.

§27.53 (a) (Band 30)
For mobile and portable stations operating in the 2305-2315 MHz: by a factor of not less than 43 + 10 log (P) dB on all frequencies between 2360 and 2365 MHz, and not less than 70 + 10 log (P) dB above 2365 MHz.

§27.53 (m) (Band 7, 41)
At least 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.

§96.41 (Band 48)
(e) 3.5 GHz Emissions and Interference Limits—
(2) Additional protection levels. Notwithstanding paragraph (d)(1) of this section, the conducted power of any emissions below 3530 MHz or above 3720 MHz shall not exceed −40dBm/MHz.

TEST PROCEDURE

KDB 971168 D01/D02 v02r01

All tests above 1GHz were done with a Resolution Bandwidth of 1MHz, and a Video Bandwidth of 3MHz.

MODES TESTED

- LTE Band 2
- LTE Band 5
- LTE Band 7
- LTE Band 12
- LTE Band 13
- LTE Band 14
- LTE Band 17
- LTE Band 25
- LTE Band 26
- LTE Band 30
- LTE Band 41
- LTE Band 48
- LTE Band 66
- LTE Band 71

RESULTS

For LTE Bands 13 and 14, no narrow band emissions were observed in the 1559-1610MHz band, so the wide band limit of -70dBW/MHz was applied.

9.1. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 1

9.1.1. LTE BAND 2

Company:	
Project #:	12607346
Date:	3/30/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 2 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	PK Margin (dB)	Polarity
Low Channel, 1860MHz									
3.723	-67.57	Pk	33.3	-30.1	10.1	-54.27	-13	-41.27	H
7.432	-69.7	Pk	36.2	-26.6	6.8	-53.3	-13	-40.3	H
3.722	-67.32	Pk	33.3	-30.1	9.9	-54.22	-13	-41.22	V
7.44	-69.86	Pk	36.1	-26.7	6.9	-53.56	-13	-40.56	V
5.567	-68.71	Pk	35.5	-28.5	8.7	-53.01	-13	-40.01	V
5.568	-68.75	Pk	35.5	-28.5	8.6	-53.15	-13	-40.15	H
Mid Channel, 1880MHz									
3.759	-67.7	Pk	33.3	-30.1	9.3	-55.2	-13	-42.2	H
7.518	-70.87	Pk	36.2	-26.3	7.5	-53.47	-13	-40.47	H
3.764	-67.54	Pk	33.3	-30.1	9.7	-54.64	-13	-41.64	V
7.513	-70.52	Pk	36.2	-26.3	7.6	-53.02	-13	-40.02	V
5.627	-67.92	Pk	35.5	-28.5	8.4	-52.52	-13	-39.52	H
5.634	-69.18	Pk	35.5	-28.6	8.6	-53.68	-13	-40.68	V
High Channel, 1900MHz									
3.798	-67.63	Pk	33.4	-30.2	9.9	-54.53	-13	-41.53	H
7.59	-70.01	Pk	36.3	-26.2	7	-52.91	-13	-39.91	H
3.79	-67.36	Pk	33.4	-30.1	9.7	-54.36	-13	-41.36	V
7.593	-70.27	Pk	36.4	-26.2	7	-53.07	-13	-40.07	V
5.68	-66.81	Pk	35.5	-27.9	8.2	-51.01	-13	-38.01	H
5.699	-69.1	Pk	35.5	-28	7.6	-54	-13	-41	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	3/30/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 2 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	PK Margin (dB)	Polarity
Low Channel, 1860MHz									
3.714	-67.07	Pk	33.3	-30	9.8	-53.97	-13	-40.97	H
7.439	-70.09	Pk	36.1	-26.6	7	-53.59	-13	-40.59	H
3.716	-67.41	Pk	33.3	-30.1	9.6	-54.61	-13	-41.61	V
7.433	-69.24	Pk	36.2	-26.6	7	-52.64	-13	-39.64	V
5.565	-68.9	Pk	35.5	-28.4	8.9	-52.9	-13	-39.9	V
5.571	-68.82	Pk	35.5	-28.5	8.4	-53.42	-13	-40.42	H
Mid Channel, 1880MHz									
3.764	-67.6	Pk	33.3	-30.1	9.3	-55.1	-13	-42.1	H
7.519	-70.32	Pk	36.2	-26.3	7.5	-52.92	-13	-39.92	H
3.754	-66.99	Pk	33.3	-30	9.5	-54.19	-13	-41.19	H
7.512	-70.73	Pk	36.2	-26.3	7.7	-53.13	-13	-40.13	H
5.626	-68.88	Pk	35.5	-28.5	8.6	-53.28	-13	-40.28	V
5.628	-68.63	Pk	35.5	-28.5	8.4	-53.23	-13	-40.23	H
High Channel, 1900MHz									
3.798	-71.59	Pk	33.4	-30.2	9.9	-58.49	-13	-45.49	H
7.589	-74.24	Pk	36.3	-26.3	7	-57.24	-13	-44.24	H
3.799	-71.1	Pk	33.4	-30.2	9.4	-58.5	-13	-45.5	V
7.601	-74.93	Pk	36.4	-26.3	7.5	-57.33	-13	-44.33	V
5.694	-72.7	Pk	35.5	-28.1	7.8	-57.5	-13	-44.5	H
5.696	-72.98	Pk	35.5	-28.1	7.6	-57.98	-13	-44.98	V

Pk - Peak detector

9.1.2. LTE BAND 5

Company:	
Project #:	12607346
Date:	3/31/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 5 QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 829MHz									
1.216	-66.36	Pk	28.4	-33	14.2	-56.76	-13	-43.76	H
3.857	-67.87	Pk	33.6	-29.7	12	-51.97	-13	-38.97	H
10.793	-72.88	Pk	37.9	-20.8	10.8	-44.98	-13	-31.98	H
3.856	-67.9	Pk	33.6	-29.7	11.3	-52.7	-13	-39.7	V
12.068	-74.85	Pk	38.8	-21	10.4	-46.65	-13	-33.65	V
6.421	-71.11	Pk	35.6	-26.2	10.3	-51.41	-13	-38.41	V
Mid Channel, 836.5MHz									
3.924	-67.18	Pk	33.6	-29.6	11.5	-51.68	-13	-38.68	H
1.222	-67.87	Pk	28.5	-33.1	13.9	-58.57	-13	-45.57	V
3.892	-65.8	Pk	33.6	-29.4	11.2	-50.4	-13	-37.4	V
11.047	-72.88	Pk	37.9	-21	11	-44.98	-13	-31.98	V
7.036	-72.77	Pk	35.6	-25.1	10.3	-51.97	-13	-38.97	H
7.936	-71.82	Pk	35.9	-24.3	11.2	-49.02	-13	-36.02	H
High Channel, 844MHz									
3.872	-68.37	Pk	33.6	-29.5	11.9	-52.37	-13	-39.37	H
11.436	-73.24	Pk	38.1	-20.8	10.9	-45.04	-13	-32.04	H
3.805	-68.06	Pk	33.5	-29.4	11.4	-52.56	-13	-39.56	V
2.582	-67.77	Pk	32.3	-31.3	12.4	-54.37	-13	-41.37	H
6.525	-71.52	Pk	35.6	-25.7	11	-50.62	-13	-37.62	V
8.907	-71.56	Pk	36.3	-23.6	11	-47.86	-13	-34.86	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	3/31/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 5 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 829MHz									
3.891	-67.76	Pk	33.6	-29.4	11.4	-52.16	-13	-39.16	H
11.047	-74.02	Pk	37.9	-21	10.6	-46.52	-13	-33.52	H
3.94	-68.17	Pk	33.6	-29.4	11.4	-52.57	-13	-39.57	V
1.731	-68.03	Pk	29.5	-32.5	12.4	-58.63	-13	-45.63	H
2.631	-68.21	Pk	32.4	-31.1	12.9	-54.01	-13	-41.01	V
6.492	-71.3	Pk	35.5	-26.1	11.3	-50.6	-13	-37.6	V
Mid Channel, 836.5MHz									
1.221	-68.06	Pk	28.5	-33.1	13.3	-59.36	-13	-46.36	H
3.856	-68	Pk	33.6	-29.7	11.9	-52.2	-13	-39.2	H
3.874	-68.03	Pk	33.6	-29.5	12.2	-51.73	-13	-38.73	V
10.793	-74.3	Pk	37.9	-20.8	11.1	-46.1	-13	-33.1	V
1.73	-67.6	Pk	29.5	-32.4	12.5	-58	-13	-45	V
10.366	-73.37	Pk	37.6	-21.2	10.3	-46.67	-13	-33.67	H
High Channel, 844MHz									
3.755	-67.35	Pk	33.4	-29.7	11.6	-52.05	-13	-39.05	H
2.341	-67.94	Pk	31.7	-31.6	12.8	-55.04	-13	-42.04	V
3.923	-67.02	Pk	33.6	-29.6	11.4	-51.62	-13	-38.62	V
6.425	-70.62	Pk	35.6	-26.1	10.3	-50.82	-13	-37.82	H
13.598	-72.45	Pk	38.9	-20.4	10.6	-43.35	-13	-30.35	H
13.599	-71.84	Pk	38.7	-20.4	10.3	-43.24	-13	-30.24	V

Pk - Peak detector

9.1.3. LTE BAND 7

Company:	
Project #:	12607346
Date:	3/30/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 7 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2510MHz									
5.025	-69.73	Pk	34.6	-28.7	8.4	-55.43	-25	-30.43	H
7.533	-71.09	Pk	36.2	-26.4	7.4	-53.89	-25	-28.89	H
5.018	-70.42	Pk	34.6	-28.6	8.7	-55.72	-25	-30.72	V
7.528	-71.26	Pk	36.2	-26.3	7.3	-54.06	-25	-29.06	V
10.039	-72.56	Pk	37.5	-22.8	8	-49.86	-25	-24.86	H
10.039	-73.3	Pk	37.5	-22.8	7.9	-50.7	-25	-25.7	V
Mid Channel, 2535MHz									
5.061	-69.43	Pk	34.5	-28.8	8.8	-54.93	-25	-29.93	H
7.608	-71.17	Pk	36.4	-26.3	7.6	-53.47	-25	-28.47	H
5.062	-74.21	Pk	34.5	-28.8	8.9	-59.61	-25	-34.61	V
7.602	-70.71	Pk	36.4	-26.3	7.5	-53.11	-25	-28.11	V
10.143	-72.94	Pk	37.7	-22.6	6.4	-51.44	-25	-26.44	V
10.145	-72.45	Pk	37.7	-22.6	6.4	-50.95	-25	-25.95	H
High Channel, 2560MHz									
5.102	-59.83	Pk	34.5	-28.8	9.5	-44.63	-25	-19.63	H
7.684	-70.98	Pk	36.4	-26.1	7.8	-52.88	-25	-27.88	H
5.102	-55.22	Pk	34.5	-28.8	9.4	-40.12	-25	-15.12	V
7.681	-70.86	Pk	36.4	-26.1	7.6	-52.96	-25	-27.96	V
10.242	-72.02	Pk	37.8	-22.5	7.5	-49.22	-25	-24.22	V
10.244	-72.22	Pk	37.8	-22.5	7.5	-49.42	-25	-24.42	H

Pk - Peak detector

Company:	
Project #:	12607346
Date:	3/30/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 7 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2510MHz									
5.014	-70.86	Pk	34.6	-28.6	8.6	-56.26	-25	-31.26	H
7.527	-71.24	Pk	36.2	-26.3	7.4	-53.94	-25	-28.94	H
5.021	-69.78	Pk	34.6	-28.6	8.8	-54.98	-25	-29.98	V
7.527	-71.26	Pk	36.2	-26.3	7.3	-54.06	-25	-29.06	V
10.038	-73.08	Pk	37.5	-22.8	8	-50.38	-25	-25.38	H
10.039	-73.1	Pk	37.5	-22.8	7.9	-50.5	-25	-25.5	V
Mid Channel, 2535MHz									
5.062	-69.35	Pk	34.5	-28.8	8.8	-54.85	-25	-29.85	H
7.608	-70.95	Pk	36.4	-26.3	7.6	-53.25	-25	-28.25	H
5.065	-68.99	Pk	34.5	-28.8	8.7	-54.59	-25	-29.59	V
7.608	-70.4	Pk	36.4	-26.3	7.5	-52.8	-25	-27.8	V
10.141	-72.77	Pk	37.7	-22.6	6.5	-51.17	-25	-26.17	H
10.142	-72.85	Pk	37.7	-22.6	6.4	-51.35	-25	-26.35	V
High Channel, 2560MHz									
5.102	-57.18	Pk	34.5	-28.8	9.6	-41.88	-25	-16.88	H
7.68	-70.49	Pk	36.4	-26	7.7	-52.39	-25	-27.39	H
5.102	-56.05	Pk	34.5	-28.8	9.4	-40.95	-25	-15.95	V
7.682	-70.67	Pk	36.4	-26.1	7.6	-52.77	-25	-27.77	V
10.236	-72.05	Pk	37.8	-22.6	7.7	-49.15	-25	-24.15	H
10.241	-72.87	Pk	37.8	-22.6	7.5	-50.17	-25	-25.17	V

Pk - Peak detector

9.1.4. LTE BAND 12

Company:	
Project #:	12607346
Date:	4/1/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 12 QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 704MHz									
1.411	-65.13	Pk	28.4	-33.1	10.3	-59.53	-13	-46.53	H
2.821	-68.12	Pk	32.5	-30.9	9.7	-56.82	-13	-43.82	H
1.409	-65.28	Pk	28.4	-33.2	9.7	-60.38	-13	-47.38	V
2.82	-67.66	Pk	32.5	-30.9	9.3	-56.76	-13	-43.76	V
2.099	-63.49	Pk	31.1	-32	10.5	-53.89	-13	-40.89	H
2.099	-64.78	Pk	31.1	-32	9.7	-55.98	-13	-42.98	V
Mid Channel, 707.5MHz									
1.418	-65.47	Pk	28.4	-33.1	9.3	-60.87	-13	-47.87	H
2.837	-67.12	Pk	32.5	-30.9	9.5	-56.02	-13	-43.02	H
1.414	-65.62	Pk	28.4	-33.1	9.1	-61.22	-13	-48.22	V
2.836	-67.04	Pk	32.5	-30.9	9.2	-56.24	-13	-43.24	V
2.117	-66.94	Pk	31.2	-31.8	10.3	-57.24	-13	-44.24	H
2.12	-66.38	Pk	31.2	-31.8	9.9	-57.08	-13	-44.08	V
High Channel, 711MHz									
1.409	-66.17	Pk	28.4	-32.6	12.6	-57.77	-13	-44.77	H
2.869	-67.05	Pk	32.3	-30.6	11.7	-53.65	-13	-40.65	H
1.411	-65.65	Pk	28.4	-32.6	11.8	-58.05	-13	-45.05	V
2.769	-66.68	Pk	32.4	-31.1	11.8	-53.58	-13	-40.58	V
2.12	-65.56	Pk	31.3	-31.8	13.1	-52.96	-13	-39.96	H
2.12	-65.7	Pk	31.3	-31.8	12.5	-53.7	-13	-40.70	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	4/1/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 12 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 704MHz									
1.412	-64.59	Pk	28.4	-33.1	10.1	-59.19	-13	-46.19	H
2.813	-67.8	Pk	32.5	-31	9.6	-56.7	-13	-43.7	H
1.409	-65.26	Pk	28.4	-33.2	9.7	-60.36	-13	-47.36	V
2.816	-67.57	Pk	32.5	-30.9	9	-56.97	-13	-43.97	V
2.109	-66.95	Pk	31.1	-31.9	9.5	-58.25	-13	-45.25	V
2.111	-66.9	Pk	31.1	-31.9	10.2	-57.5	-13	-44.5	H
Mid Channel, 707.5MHz									
1.412	-65.61	Pk	28.4	-33.1	10.2	-60.11	-13	-47.11	H
2.833	-66.66	Pk	32.5	-31	9.5	-55.66	-13	-42.66	H
1.412	-64.57	Pk	28.4	-33.1	9.3	-59.97	-13	-46.97	V
2.829	-67.14	Pk	32.5	-30.9	9.6	-55.94	-13	-42.94	V
2.133	-66.42	Pk	31.2	-31.7	11.2	-55.72	-13	-42.72	H
2.134	-66.78	Pk	31.2	-31.6	10.5	-56.68	-13	-43.68	V
High Channel, 711MHz									
1.407	-66.56	Pk	28.4	-32.5	12.9	-57.76	-13	-44.76	H
2.818	-66.64	Pk	32.4	-30.8	11.6	-53.44	-13	-40.44	H
1.413	-67.68	Pk	28.3	-32.6	11.4	-60.58	-13	-47.58	V
2.819	-66.31	Pk	32.4	-30.8	12.2	-52.51	-13	-39.51	V
2.07	-67.84	Pk	31.2	-31.7	13	-55.34	-13	-42.34	H
2.123	-66.43	Pk	31.3	-31.7	12.9	-53.93	-13	-40.93	V

Pk - Peak detector

9.1.5. LTE BAND 13

Project #:	12607346
Date:	4/1/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 13 QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 782MHz									
1.569	-66	Pk	27.7	-32.9	9.5	-61.7	-40	-21.7	H
2.349	-66.23	Pk	32.2	-31.8	10.2	-55.63	-13	-42.63	H
1.571	-65.69	Pk	27.7	-32.8	10	-60.79	-40	-20.79	V
2.35	-67.17	Pk	32.2	-31.8	9.7	-57.07	-13	-44.07	V
3.133	-67.75	Pk	33.2	-30.8	9.7	-55.65	-13	-42.65	H
3.134	-67.66	Pk	33.2	-30.8	10.3	-54.96	-13	-41.96	V

Project #:	12607346
Date:	4/1/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 13 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 782MHz									
1.563	-65.94	Pk	27.7	-32.9	9.1	-62.04	-40	-22.04	H
2.345	-67.26	Pk	32.2	-31.7	10	-56.76	-13	-43.76	H
2.353	-66.87	Pk	32.2	-31.7	9.9	-56.47	-13	-43.47	V
1.566	-65.19	Pk	27.7	-32.9	10.2	-60.19	-40	-20.19	V
3.132	-67.32	Pk	33.2	-30.8	10.1	-54.82	-13	-41.82	V
3.136	-67.59	Pk	33.2	-30.7	9.9	-55.19	-13	-42.19	H

Pk - Peak detector

9.1.6. LTE BAND 14

Project #:	12607346
Date:	4/1/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 14 QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
			Mid Channel, 793MHz						
1.587	-65.78	Pk	27.7	-32.8	9.3	-61.58	-40	-21.58	H
2.377	-66.7	Pk	32.3	-31.9	9.8	-56.5	-13	-43.5	H
1.591	-64.7	Pk	27.7	-32.8	10.4	-59.4	-40	-19.4	V
2.377	-66.76	Pk	32.3	-31.9	9.6	-56.76	-13	-43.76	V
3.174	-66.97	Pk	33.1	-30.7	9.7	-54.87	-13	-41.87	V
3.177	-67.05	Pk	33.1	-30.7	9.8	-54.85	-13	-41.85	H

Project #:	12607346
Date:	4/1/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 14 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 793MHz									
1.583	-65.93	Pk	27.7	-32.8	9.2	-61.83	-40	-21.83	H
2.38	-66.82	Pk	32.3	-31.9	9.7	-56.72	-13	-43.72	H
1.58	-65.97	Pk	27.7	-32.9	10	-61.17	-40	-21.17	V
2.374	-66.87	Pk	32.3	-31.8	9.8	-56.57	-13	-43.57	V
3.17	-66.58	Pk	33.1	-30.7	9.9	-54.28	-13	-41.28	V
3.171	-66.58	Pk	33.1	-30.7	9.6	-54.58	-13	-41.58	H

Pk - Peak detector

9.1.7. LTE BAND 17

Project #:	12607346
Date:	04/01/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 17 QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 710MHz									
1.422	-65.48	Pk	28.3	-33	8.8	-61.38	-13	-48.38	H
2.835	-66.79	Pk	32.5	-31	9.5	-55.79	-13	-42.79	H
1.415	-65.46	Pk	28.4	-33.2	9	-61.26	-13	-48.26	V
2.838	-67.08	Pk	32.5	-30.8	9.2	-56.18	-13	-43.18	V
2.117	-65.27	Pk	31.2	-31.8	10.3	-55.57	-13	-42.57	H
2.117	-66.03	Pk	31.2	-31.8	9.4	-57.23	-13	-44.23	V

Project #:	12607346
Date:	04/01/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 17 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 710MHz									
1.411	-65.21	Pk	28.4	-33.1	10.4	-59.51	-13	-46.51	H
2.837	-67.4	Pk	32.5	-30.8	9.4	-56.3	-13	-43.3	H
1.41	-65.41	Pk	28.4	-33.2	9.6	-60.61	-13	-47.61	V
2.841	-67.33	Pk	32.5	-30.7	9.2	-56.33	-13	-43.33	V
2.131	-66.22	Pk	31.2	-31.7	10.9	-55.82	-13	-42.82	H
2.137	-66.9	Pk	31.2	-31.6	10.3	-57	-13	-44	V

Pk - Peak detector

9.1.8. LTE BAND 25

Company:	
Project #:	12607346
Date:	04/01/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 25 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	PK Margin (dB)	Polarity
Low Channel, 1860MHz									
3.713	-68.92	Pk	33.3	-30	9.8	-55.82	-13	-42.82	H
7.438	-69.75	Pk	36.1	-26.6	7	-53.25	-13	-40.25	H
3.72	-68.74	Pk	33.3	-30.1	9.8	-55.74	-13	-42.74	V
7.439	-70.35	Pk	36.1	-26.7	6.9	-54.05	-13	-41.05	V
5.574	-69.47	Pk	35.5	-28.6	8.3	-54.27	-13	-41.27	V
5.578	-68.92	Pk	35.5	-28.5	8.2	-53.72	-13	-40.72	H
Mid Channel, 1882.5MHz									
3.762	-67.43	Pk	33.3	-30.1	9.3	-54.93	-13	-41.93	H
7.53	-71.34	Pk	36.2	-26.3	7.5	-53.94	-13	-40.94	H
3.762	-68.11	Pk	33.3	-30.1	9.7	-55.21	-13	-42.21	V
7.531	-70.94	Pk	36.2	-26.3	7.3	-53.74	-13	-40.74	V
5.642	-69.01	Pk	35.5	-28.5	8.1	-53.91	-13	-40.91	H
5.648	-69.4	Pk	35.5	-28.5	7.9	-54.5	-13	-41.5	V
High Channel, 1905MHz									
3.819	-67.42	Pk	33.4	-30.1	9.6	-54.52	-13	-41.52	H
7.626	-70.21	Pk	36.4	-26.3	7.4	-52.71	-13	-39.71	H
3.815	-67.77	Pk	33.4	-30.1	9.7	-54.77	-13	-41.77	V
7.623	-70.38	Pk	36.4	-26.4	7.4	-52.98	-13	-39.98	V
5.71	-70.19	Pk	35.5	-28.2	7.7	-55.19	-13	-42.19	V
5.712	-69.77	Pk	35.5	-28.2	7.9	-54.57	-13	-41.57	H

Pk - Peak detector

Company:	
Project #:	12607346
Date:	04/01/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 25 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	PK Margin (dB)	Polarity
Low Channel, 1860MHz									
3.721	-68.3	Pk	33.3	-30.1	9.9	-55.2	-13	-42.2	H
7.442	-71.15	Pk	36.1	-26.6	7	-54.65	-13	-41.65	H
3.722	-68.67	Pk	33.3	-30.2	9.9	-55.67	-13	-42.67	V
7.443	-70.02	Pk	36.1	-26.6	6.9	-53.62	-13	-40.62	V
5.578	-68.79	Pk	35.5	-28.5	8.2	-53.59	-13	-40.59	H
5.584	-68.78	Pk	35.5	-28.6	8.1	-53.78	-13	-40.78	V
Mid Channel, 1882.5MHz									
3.768	-67.59	Pk	33.4	-30	9.2	-54.99	-13	-41.99	H
7.537	-70.37	Pk	36.2	-26.5	7.3	-53.37	-13	-40.37	H
3.762	-67.9	Pk	33.3	-30.1	9.7	-55	-13	-42	V
7.537	-70.85	Pk	36.2	-26.5	7.2	-53.95	-13	-40.95	V
5.645	-68.4	Pk	35.5	-28.5	8	-53.4	-13	-40.4	H
5.645	-68.47	Pk	35.5	-28.5	7.8	-53.67	-13	-40.67	V
High Channel, 1905MHz									
3.809	-68.31	Pk	33.4	-30.1	9.3	-55.71	-13	-42.71	H
7.623	-70.31	Pk	36.4	-26.4	7.4	-52.91	-13	-39.91	H
3.812	-68.19	Pk	33.4	-30.1	9.5	-55.39	-13	-42.39	V
7.619	-70.22	Pk	36.4	-26.4	7.5	-52.72	-13	-39.72	V
5.715	-69.54	Pk	35.5	-28.1	7.9	-54.24	-13	-41.24	V
5.717	-69.16	Pk	35.5	-28.1	7.7	-54.06	-13	-41.06	H

Pk - Peak detector

9.1.9. LTE BAND 26

Project #:	12607346
Date:	04/02/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 26(90S) QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 819MHz									
1.636	-65.26	Pk	28.3	-32.9	10.5	-59.36	-13	-46.36	H
1.643	-65.79	Pk	28.5	-32.9	10.7	-59.49	-13	-46.49	V
2.46	-66.8	Pk	32.6	-31.6	9	-56.8	-13	-43.8	V
2.462	-66.8	Pk	32.6	-31.5	8.9	-56.8	-13	-43.8	H
3.276	-67.41	Pk	33	-30.3	9.1	-55.61	-13	-42.61	V
3.278	-66.89	Pk	32.9	-30.3	9.7	-54.59	-13	-41.59	H

Project #:	12607346
Date:	04/02/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 26(90S) 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 819MHz									
1.641	-65.08	Pk	28.4	-32.9	10.7	-58.88	-13	-45.88	V
1.643	-65.36	Pk	28.5	-32.9	10.9	-58.86	-13	-45.86	H
2.455	-66.73	Pk	32.6	-31.6	9	-56.73	-13	-43.73	V
2.456	-66.59	Pk	32.6	-31.6	8.6	-56.99	-13	-43.99	H
3.277	-67.79	Pk	33	-30.3	9.8	-55.29	-13	-42.29	H
3.279	-67.61	Pk	32.9	-30.4	9.1	-56.01	-13	-43.01	V

Pk - Peak detector

9.1.10. LTE BAND 30

Project #:	12607346
Date:	04/02/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 30 QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.612	-68.57	Pk	34.1	-29.5	9.5	-54.47	-40	-14.47	H
4.618	-69.23	Pk	34.1	-29.6	9.6	-55.13	-40	-15.13	V
6.933	-70.07	Pk	35.8	-27.4	6.6	-55.07	-40	-15.07	H
6.936	-69.46	Pk	35.8	-27.4	6.8	-54.26	-40	-14.26	V
9.239	-72.04	Pk	36.8	-23.7	8	-50.94	-40	-10.94	V
9.241	-71.11	Pk	36.8	-23.8	7.9	-50.21	-40	-10.21	H

Project #:	12607346
Date:	04/10/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 30 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.611	-65.54	Pk	34.1	-29.5	9.4	-51.54	-40	-11.54	H
4.611	-68.14	Pk	34.1	-29.5	9.3	-54.24	-40	-14.24	V
6.918	-69.69	Pk	35.8	-27.3	6.5	-54.69	-40	-14.69	H
6.934	-68.67	Pk	35.8	-27.4	6.7	-53.57	-40	-13.57	V
9.23	-71.34	Pk	36.8	-23.5	7.9	-50.14	-40	-10.14	H
9.235	-71.81	Pk	36.8	-23.6	8	-50.61	-40	-10.61	V

Pk - Peak detector

9.1.11. LTE BAND 41

Company:	
Project #:	12607346
Date:	04/01/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 41 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2506MHz									
5.003	-65.77	Pk	34.1	-28.6	10.8	-49.47	-25	-24.47	H
7.508	-71.14	Pk	35.7	-24.5	10.7	-49.24	-25	-24.24	H
4.999	-66.62	Pk	34.1	-28.5	10.7	-50.32	-25	-25.32	V
7.511	-70.81	Pk	35.7	-24.5	10.9	-48.71	-25	-23.71	V
10.012	-71.87	Pk	37.2	-22.3	10.6	-46.37	-25	-21.37	V
10.018	-72.11	Pk	37.2	-22.2	10.5	-46.61	-25	-21.61	H
Mid Channel, 2593MHz									
5.177	-50.67	Pk	34.2	-28.6	11.4	-33.67	-25	-8.67	H
5.178	-49.92	Pk	34.2	-28.6	11.3	-33.02	-25	-8.02	V
7.778	-70.61	Pk	35.8	-24.4	11	-48.21	-25	-23.21	H
7.973	-70.3	Pk	35.8	-24.3	11.4	-47.4	-25	-22.4	V
10.344	-71.63	Pk	37.5	-21.3	10	-45.43	-25	-20.43	V
10.362	-71.41	Pk	37.6	-21.2	10.3	-44.71	-25	-19.71	H
High Channel, 2680MHz									
5.355	-68.57	Pk	34.6	-27.9	11.3	-50.57	-25	-25.57	H
8.039	-69.92	Pk	35.9	-24.4	11.3	-47.12	-25	-22.12	H
10.682	-72.04	Pk	37.8	-21.2	10.7	-44.74	-25	-19.74	H
5.351	-65.92	Pk	34.6	-27.9	11	-48.22	-25	-23.22	V
8.027	-68.72	Pk	35.9	-24.3	11.3	-45.82	-25	-20.82	V
10.726	-72.35	Pk	37.9	-21.2	10.9	-44.75	-25	-19.75	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	04/01/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 41 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
2506MHz									
5.006	-67.61	Pk	34.2	-28.7	10.8	-51.31	-25	-26.31	H
7.514	-70.52	Pk	35.6	-24.5	10.5	-48.92	-25	-23.92	H
5.006	-66.96	Pk	34.2	-28.7	10.6	-50.86	-25	-25.86	V
7.502	-70.89	Pk	35.7	-24.5	11.1	-48.59	-25	-23.59	V
9.996	-72.42	Pk	37.2	-22.3	10.6	-46.92	-25	-21.92	H
10.008	-72.23	Pk	37.3	-22.2	10.6	-46.53	-25	-21.53	V
Mid Channel, 2593MHz									
5.177	-52.25	Pk	34.2	-28.6	11.4	-35.25	-25	-10.25	H
5.177	-58.01	Pk	34.2	-28.6	11.3	-41.11	-25	-16.11	V
7.778	-70.66	Pk	35.8	-24.4	11	-48.26	-25	-23.26	H
7.871	-70.28	Pk	35.9	-24.6	11.3	-47.68	-25	-22.68	V
10.349	-71.86	Pk	37.5	-21.2	10.1	-45.46	-25	-20.46	V
10.365	-72.23	Pk	37.6	-21.2	10.3	-45.53	-25	-20.53	H
High Channel, 2680MHz									
5.351	-64.29	Pk	34.6	-27.9	11.1	-46.49	-25	-21.49	H
8.027	-69.9	Pk	35.9	-24.3	11	-47.3	-25	-22.3	H
8.038	-70.04	Pk	35.9	-24.4	11.5	-47.04	-25	-22.04	V
10.726	-71.64	Pk	37.9	-21.2	10.9	-44.04	-25	-19.04	V
10.724	-71.97	Pk	37.9	-21.2	10.9	-44.37	-25	-19.37	V
5.347	-68.46	Pk	34.5	-28.1	11.2	-50.86	-25	-25.86	V

Pk - Peak detector

9.1.12. LTE BAND 48

Company:	
Project #:	12607346
Date:	6/27/2019
Test Engineer:	23567
Configuration:	EUT Only
Mode:	LTE 48 QPSK 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 3560MHz									
7.099	-74.37	Pk	36	-24.2	10.3	-52.27	-40	-12.27	V
7.106	-73.08	Pk	36	-24.3	10	-51.38	-40	-11.38	H
10.608	-74.77	Pk	37.9	-20.2	10.8	-46.27	-40	-6.27	V
10.644	-75.22	Pk	37.9	-19.8	10	-47.12	-40	-7.12	H
14.218	-75.33	Pk	38.9	-19.2	11.4	-44.23	-40	-4.23	H
14.264	-75.32	Pk	39	-19.3	10.7	-44.92	-40	-4.92	V
Mid Channel, 3625MHz									
7.23	-74.97	Pk	35.9	-24	11	-52.07	-40	-12.07	V
7.248	-74.06	Pk	35.9	-24.1	10.6	-51.66	-40	-11.66	H
10.83	-75.8	Pk	38	-19.3	10.3	-46.8	-40	-6.8	V
10.85	-76.25	Pk	38	-19.7	10.6	-47.35	-40	-7.35	H
14.513	-75.65	Pk	39.4	-19.5	10.8	-44.95	-40	-4.95	H
14.537	-74.09	Pk	39.5	-19.3	10.6	-43.29	-40	-5.29	V
High Channel, 3690MHz									
7.347	-75.02	Pk	35.8	-23.7	11.1	-51.82	-40	-11.82	V
7.376	-75.53	Pk	35.7	-23.5	11	-52.33	-40	-12.33	H
11.052	-73.98	Pk	37.9	-19.8	10.6	-45.28	-40	-5.28	H
11.06	-75.66	Pk	37.9	-19.8	10.8	-46.76	-40	-6.76	V
14.641	-75.37	Pk	39.7	-19.3	10.3	-44.67	-40	-4.67	V
14.742	-75.16	Pk	39.7	-19.1	10.1	-44.46	-40	-4.46	H

Pk - Peak detector

Company:	
Project #:	12607346
Date:	6/27/2019
Test Engineer:	23567
Configuration:	EUT Only
Mode:	LTE 48 16QAM 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 3560MHz									
7.086	-74.17	Pk	36.1	-24.2	10.7	-51.57	-40	-11.57	V
7.117	-73.88	Pk	36.1	-24.3	10.4	-51.68	-40	-11.68	H
10.625	-76.89	Pk	37.9	-19.7	10.4	-48.29	-40	-8.29	V
10.666	-76.68	Pk	37.9	-20.2	10.5	-48.48	-40	-8.48	H
14.219	-75.72	Pk	38.8	-19.2	11.4	-44.72	-40	-4.72	H
14.242	-75.46	Pk	38.9	-19.4	10.8	-45.16	-40	-5.16	V
Mid Channel, 3625MHz									
7.25	-71.77	Pk	35.9	-24.1	10.6	-49.37	-40	-9.37	H
7.255	-73.06	Pk	35.8	-24.1	11.3	-50.06	-40	-10.06	V
10.869	-75.51	Pk	37.9	-19.5	10.8	-46.31	-40	-6.31	H
10.888	-76.3	Pk	37.9	-19.5	10.6	-47.30	-40	-7.30	V
14.509	-74.81	Pk	39.4	-19.7	10.7	-44.41	-40	-4.41	H
14.565	-76.02	Pk	39.6	-19.5	10	-45.92	-40	-5.92	V
High Channel, 3690MHz									
7.352	-75	Pk	35.7	-23.7	10.9	-52.1	-40	-12.1	V
7.38	-74.53	Pk	35.8	-23.5	10.9	-51.33	-40	-11.33	H
10.982	-75.45	Pk	37.9	-20	10.9	-46.65	-40	-6.65	V
11.056	-76.51	Pk	37.9	-19.8	10.5	-47.91	-40	-7.91	H
14.69	-75.9	Pk	39.7	-19	10.4	-44.80	-40	-4.80	V
14.739	-76.34	Pk	39.7	-19.2	10.2	-45.64	-40	-5.64	H

Pk - Peak detector

9.1.13. LTE BAND 66

Company:	
Project #:	12607346
Date:	04/02/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 66 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1710MHz									
3.432	-66.88	Pk	32.8	-29.9	8.9	-55.08	-13	-42.08	H
3.432	-66.5	Pk	32.8	-29.9	8.9	-54.7	-13	-41.7	V
5.156	-68.14	Pk	34.6	-28.6	9.2	-52.94	-13	-39.94	V
5.159	-68.4	Pk	34.6	-28.7	9.2	-53.3	-13	-40.3	H
6.862	-68.66	Pk	35.8	-27.4	6.3	-53.96	-13	-40.96	V
6.876	-69.35	Pk	35.8	-27.4	6.6	-54.35	-13	-41.35	H
Mid Channel, 1745MHz									
3.474	-67.83	Pk	32.9	-30	9.5	-55.43	-13	-42.43	H
3.498	-67.97	Pk	32.9	-29.8	9.5	-55.37	-13	-42.37	V
5.156	-68.32	Pk	34.6	-28.6	9.1	-53.22	-13	-40.22	H
5.161	-67.62	Pk	34.6	-28.7	9.4	-52.32	-13	-39.32	V
6.964	-69.56	Pk	35.9	-27	7	-53.66	-13	-40.66	H
6.965	-69.06	Pk	35.9	-27	7	-53.16	-13	-40.16	V
High Channel, 1770MHz									
3.537	-67.82	Pk	33	-30.2	9.5	-55.52	-13	-42.52	H
3.539	-68.41	Pk	33.1	-30.2	9.3	-56.21	-13	-43.21	V
5.302	-68.07	Pk	34.9	-29	8.1	-54.07	-13	-41.07	H
5.303	-68.67	Pk	34.9	-28.9	8.1	-54.57	-13	-41.57	V
7.072	-70.06	Pk	36	-26.6	7.2	-53.46	-13	-40.46	V
7.074	-69.76	Pk	36	-26.5	7.1	-53.16	-13	-40.16	H

Pk - Peak detector

Company:	
Project #:	12607346
Date:	04/01/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 66 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1720MHz									
3.434	-70.92	Pk	32.8	-29.9	8.9	-59.12	-13	-46.12	V
3.435	-71.53	Pk	32.8	-29.8	8.8	-59.73	-13	-46.73	H
5.154	-72.58	Pk	34.6	-28.6	9.2	-57.38	-13	-44.38	V
5.158	-71.4	Pk	34.6	-28.7	9.1	-56.4	-13	-43.4	H
6.871	-73.9	Pk	35.8	-27.5	6.6	-59	-13	-46	V
6.872	-73	Pk	35.8	-27.5	6.6	-58.1	-13	-45.1	H
Mid Channel, 1745MHz									
3.481	-70.59	Pk	32.9	-30	9.5	-58.19	-13	-45.19	V
3.492	-71.93	Pk	32.9	-29.9	9.5	-59.43	-13	-46.43	H
5.154	-71.27	Pk	34.6	-28.7	9.2	-56.17	-13	-43.17	V
5.159	-72.69	Pk	34.6	-28.7	9.2	-57.59	-13	-44.59	H
6.965	-74.37	Pk	35.9	-27	7	-58.47	-13	-45.47	H
6.967	-74.36	Pk	35.9	-26.9	6.8	-58.56	-13	-45.56	V
High Channel, 1770MHz									
3.536	-72.8	Pk	33	-30.2	9.5	-60.5	-13	-47.5	H
3.531	-72.55	Pk	33	-30.2	9.9	-59.85	-13	-46.85	V
5.297	-72.06	Pk	34.9	-29	8	-58.16	-13	-45.16	H
5.302	-73.06	Pk	34.9	-29	8	-59.16	-13	-46.16	V
7.062	-75	Pk	36	-26.4	7.1	-58.3	-13	-45.3	V
7.073	-73.6	Pk	36	-26.6	7.1	-57.1	-13	-44.1	H

Pk - Peak detector

9.1.14. LTE BAND 71

Company:	
Project #:	12607346
Date:	04/02/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 71 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 673MHz									
1.349	-64.39	Pk	28.5	-33.2	10.5	-58.59	-13	-45.59	H
2.691	-67.08	Pk	32.3	-31.2	8.7	-57.28	-13	-44.28	H
1.35	-64.97	Pk	28.5	-33.2	9.3	-60.37	-13	-47.37	V
2.691	-67.34	Pk	32.3	-31.2	9.7	-56.54	-13	-43.54	V
2.013	-66.15	Pk	30.9	-32	9	-58.25	-13	-45.25	H
2.016	-66.11	Pk	30.9	-32	9.4	-57.81	-13	-44.81	V
Mid Channel, 680.5MHz									
1.354	-65.65	Pk	28.5	-33.1	10	-60.25	-13	-47.25	H
2.77	-67.89	Pk	32.4	-31.1	10	-56.59	-13	-43.59	H
1.357	-65.89	Pk	28.5	-33.2	9	-61.59	-13	-48.59	V
2.77	-68.38	Pk	32.4	-31.1	9.2	-57.88	-13	-44.88	V
2.015	-59.66	Pk	30.9	-32	9.1	-51.66	-13	-38.66	H
2.015	-51.7	Pk	30.9	-32	9.5	-43.3	-13	-30.3	V
High Channel, 688MHz									
1.379	-65.52	Pk	28.5	-33	7.6	-62.42	-13	-49.42	H
2.748	-66.68	Pk	32.3	-31	9	-56.38	-13	-43.38	H
1.38	-66.07	Pk	28.5	-33	6.4	-64.17	-13	-51.17	V
2.749	-66.53	Pk	32.3	-31.1	8.4	-56.93	-13	-43.93	V
2.037	-62.96	Pk	31	-31.9	9.5	-54.36	-13	-41.36	H
2.037	-61.21	Pk	31	-31.9	10.5	-51.61	-13	-38.61	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	04/02/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 71 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 673MHz									
1.35	-64.86	Pk	28.5	-33.2	10.4	-59.16	-13	-46.16	H
2.687	-67.17	Pk	32.3	-31.1	8.7	-57.27	-13	-44.27	H
1.347	-65.02	Pk	28.5	-33.2	9.5	-60.22	-13	-47.22	V
2.685	-66.33	Pk	32.3	-31.1	10	-55.13	-13	-42.13	V
2.018	-65.99	Pk	30.9	-32	9.3	-57.79	-13	-44.79	V
2.021	-65.94	Pk	30.9	-32	9.1	-57.94	-13	-44.94	H
Mid Channel, 680.5MHz									
1.36	-65.43	Pk	28.5	-33.2	9.5	-60.63	-13	-47.63	H
2.725	-67.23	Pk	32.3	-31	9.8	-56.13	-13	-43.13	H
1.356	-65.71	Pk	28.5	-33.2	9	-61.41	-13	-48.41	V
2.724	-66.99	Pk	32.3	-31	9.7	-55.99	-13	-42.99	V
2.015	-54.29	Pk	30.9	-32	9.1	-46.29	-13	-33.29	H
2.015	-52.16	Pk	30.9	-32	9.5	-43.76	-13	-30.76	V
High Channel, 688MHz									
1.386	-66.16	Pk	28.5	-33.1	8.2	-62.56	-13	-49.56	H
2.751	-67.18	Pk	32.3	-31.1	9	-56.98	-13	-43.98	H
1.382	-66.29	Pk	28.5	-33	6.8	-63.99	-13	-50.99	V
2.748	-66.98	Pk	32.3	-31	8.4	-57.28	-13	-44.28	V
2.068	-66	Pk	31	-31.8	9.7	-57.1	-13	-44.1	H
2.071	-65.28	Pk	31	-31.7	9.9	-56.08	-13	-43.08	V

Pk - Peak detector

9.2. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 2

9.2.1. LTE BAND 2

Company:	
Project #:	12607346
Date:	4/4/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 2 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.716	-68.14	Pk	33.3	-30	9.8	-55.04	-13	-42.04	H
7.435	-69.83	Pk	36.1	-26.6	6.9	-53.43	-13	-40.43	H
3.707	-67.77	Pk	33.2	-29.9	10	-54.47	-13	-41.47	V
7.43	-69.72	Pk	36.2	-26.6	6.9	-53.22	-13	-40.22	V
5.571	-68.76	Pk	35.5	-28.6	8.4	-53.46	-13	-40.46	V
5.573	-67.83	Pk	35.5	-28.6	8.3	-52.63	-13	-39.63	H
Mid Channel, 1880MHz									
3.757	-67.36	Pk	33.3	-30.1	9.3	-54.86	-13	-41.86	H
7.514	-70.62	Pk	36.2	-26.3	7.6	-53.12	-13	-40.12	H
3.763	-67.19	Pk	33.3	-30.1	9.7	-54.29	-13	-41.29	V
7.508	-70.77	Pk	36.1	-26.4	7.8	-53.27	-13	-40.27	V
5.628	-68.03	Pk	35.5	-28.5	8.5	-52.53	-13	-39.53	V
5.636	-68.63	Pk	35.5	-28.6	8.5	-53.23	-13	-40.23	H
HighChannel, 1900MHz									
3.798	-66.7	Pk	33.4	-30.2	9.9	-53.6	-13	-40.6	H
7.593	-70.93	Pk	36.4	-26.2	7.2	-53.53	-13	-40.53	H
3.795	-68.47	Pk	33.4	-30.2	9.6	-55.67	-13	-42.67	V
7.587	-71.5	Pk	36.3	-26.3	6.9	-54.6	-13	-41.6	V
5.694	-69.14	Pk	35.5	-28.1	7.8	-53.94	-13	-40.94	H
5.698	-68.55	Pk	35.5	-28.1	7.6	-53.55	-13	-40.55	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	4/4/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 2 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.715	-67.39	Pk	33.3	-30	9.8	-54.29	-13	-41.29	H
7.436	-69.58	Pk	36.1	-26.6	7	-53.08	-13	-40.08	H
3.717	-68.01	Pk	33.3	-30.1	9.6	-55.21	-13	-42.21	V
7.44	-69.9	Pk	36.1	-26.7	6.9	-53.6	-13	-40.6	V
5.569	-68.51	Pk	35.5	-28.5	8.5	-53.01	-13	-40.01	V
5.573	-68.22	Pk	35.5	-28.6	8.3	-53.02	-13	-40.02	H
Mid Channel, 1880MHz									
3.758	-66.64	Pk	33.3	-30.1	9.3	-54.14	-13	-41.14	H
7.516	-71.18	Pk	36.2	-26.2	7.6	-53.58	-13	-40.58	H
3.762	-67.29	Pk	33.3	-30.1	9.7	-54.39	-13	-41.39	V
7.508	-70.11	Pk	36.2	-26.4	7.8	-52.51	-13	-39.51	V
5.627	-68.12	Pk	35.5	-28.5	8.4	-52.72	-13	-39.72	H
5.629	-67.93	Pk	35.5	-28.5	8.5	-52.43	-13	-39.43	V
High Channel, 1900MHz									
3.805	-68.13	Pk	33.4	-30.1	9.5	-55.33	-13	-42.33	H
7.51	-71.28	Pk	36.2	-26.3	7.7	-53.68	-13	-40.68	H
3.793	-67.55	Pk	33.4	-30.2	9.7	-54.65	-13	-41.65	V
7.508	-70.77	Pk	36.1	-26.4	7.8	-53.27	-13	-40.27	V
5.698	-69.03	Pk	35.5	-28.1	7.7	-53.93	-13	-40.93	H
5.699	-69.3	Pk	35.5	-28	7.6	-54.2	-13	-41.2	V

Pk - Peak detector

9.2.2. LTE BAND 5

Company:	
Project #:	12607346
Date:	4/2/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 5 QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 829MHz									
2.485	-66.51	Pk	32.6	-31.6	8.7	-56.81	-13	-43.81	H
2.486	-67.05	Pk	32.6	-31.6	8.7	-57.35	-13	-44.35	V
1.649	-65.54	Pk	28.6	-32.8	10.9	-58.84	-13	-45.84	H
1.651	-65.41	Pk	28.6	-32.8	9.9	-59.71	-13	-46.71	V
3.318	-67.55	Pk	32.9	-30.4	9.5	-55.55	-13	-42.55	V
3.32	-68.08	Pk	32.9	-30.3	9.2	-56.28	-13	-43.28	H
Mid Channel, 836.5MHz									
1.68	-66.3	Pk	29.2	-32.7	10.9	-58.9	-13	-45.9	H
3.348	-67.18	Pk	32.9	-30.4	9.2	-55.48	-13	-42.48	H
1.673	-65.89	Pk	29.1	-32.9	9	-60.69	-13	-47.69	V
2.508	-65.74	Pk	32.7	-31.5	9.3	-55.24	-13	-42.24	V
2.509	-66.71	Pk	32.7	-31.6	9.1	-56.51	-13	-43.51	H
3.345	-67.4	Pk	32.9	-30.4	9.3	-55.6	-13	-42.6	V
High Channel, 844MHz									
1.697	-66.45	Pk	29.5	-32.7	10.2	-59.45	-13	-46.45	H
1.694	-66.47	Pk	29.5	-32.6	9.7	-59.87	-13	-46.87	V
2.519	-62.13	Pk	32.7	-31.5	9.1	-51.83	-13	-38.83	H
2.519	-62.6	Pk	32.7	-31.5	9.2	-52.2	-13	-39.2	V
3.372	-67.71	Pk	32.9	-30.3	9.4	-55.71	-13	-42.71	H
3.375	-67.31	Pk	32.8	-30.4	9.4	-55.51	-13	-42.51	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	4/2/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 5 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 829MHz									
2.485	-66.88	Pk	32.6	-31.6	8.7	-57.18	-13	-44.18	H
2.488	-66.85	Pk	32.6	-31.5	8.7	-57.05	-13	-44.05	V
1.649	-62.6	Pk	28.6	-32.8	10.9	-55.9	-13	-42.9	H
1.649	-63.64	Pk	28.6	-32.8	10.1	-57.74	-13	-44.74	V
3.316	-67.56	Pk	32.9	-30.3	9.7	-55.26	-13	-42.26	V
3.319	-67.76	Pk	32.9	-30.3	9.3	-55.86	-13	-42.86	H
Mid Channel, 836.5MHz									
1.672	-66.14	Pk	29	-32.9	10.6	-59.44	-13	-46.44	H
1.668	-65.94	Pk	29	-32.8	8.7	-61.04	-13	-48.04	V
2.508	-66.55	Pk	32.7	-31.6	9.1	-56.35	-13	-43.35	H
2.513	-66.74	Pk	32.7	-31.5	9.5	-56.04	-13	-43.04	V
3.344	-67.97	Pk	32.9	-30.4	9	-56.47	-13	-43.47	H
3.344	-67.44	Pk	32.9	-30.4	9.3	-55.64	-13	-42.64	V
High Channel, 844MHz									
1.683	-66.25	Pk	29.2	-32.7	11	-58.75	-13	-45.75	H
1.688	-65.72	Pk	29.3	-32.7	9.8	-59.32	-13	-46.32	V
2.519	-63.4	Pk	32.7	-31.5	9.1	-53.1	-13	-40.1	H
2.519	-60.64	Pk	32.7	-31.5	9.3	-50.14	-13	-37.14	V
3.371	-68	Pk	32.9	-30.3	9.9	-55.5	-13	-42.5	V
3.372	-67.36	Pk	32.9	-30.3	9.4	-55.36	-13	-42.36	H

Pk - Peak detector

9.2.3. LTE BAND 7

Company:	
Project #:	12607346
Date:	4/3/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 7 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2510MHz									
5.021	-70.34	Pk	34.6	-28.6	8.6	-55.74	-25	-30.74	H
7.503	-68.74	Pk	36.1	-26.4	7.9	-51.14	-25	-26.14	H
5.011	-69.47	Pk	34.6	-28.6	9	-54.47	-25	-29.47	V
7.503	-61.15	Pk	36.1	-26.4	7.9	-43.55	-25	-18.55	V
10.037	-72.74	Pk	37.5	-22.7	8	-49.94	-25	-24.94	V
10.04	-72.27	Pk	37.5	-22.8	8	-49.57	-25	-24.57	H
Mid Channel, 2535MHz									
5.069	-69.08	Pk	34.5	-28.7	8.6	-54.68	-25	-29.68	H
7.58	-70.67	Pk	36.3	-26.2	7.2	-53.37	-25	-28.37	H
7.578	-70.68	Pk	36.3	-26.3	7.2	-53.48	-25	-28.48	V
5.073	-68.4	Pk	34.5	-28.7	8.4	-54.2	-25	-29.2	V
10.142	-72.73	Pk	37.7	-22.6	6.5	-51.13	-25	-26.13	H
10.142	-72.7	Pk	37.7	-22.6	6.4	-51.2	-25	-26.2	V
High Channel, 2560MHz									
5.111	-68.09	Pk	34.5	-28.8	9.3	-53.09	-25	-28.09	H
7.653	-58.37	Pk	36.4	-26	7.6	-40.37	-25	-15.37	H
5.119	-68.48	Pk	34.6	-28.8	8.9	-53.78	-25	-28.78	V
7.653	-63.78	Pk	36.4	-26	7.5	-45.88	-25	-20.88	V
10.237	-72.57	Pk	37.8	-22.6	7.5	-49.87	-25	-24.87	V
10.243	-72.08	Pk	37.8	-22.5	7.6	-49.18	-25	-24.18	H

Pk - Peak detector

Company:	
Project #:	12607346
Date:	4/3/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 7 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2510MHz									
5.018	-69.59	Pk	34.6	-28.6	8.5	-55.09	-25	-30.09	H
7.503	-70.5	Pk	36.1	-26.4	7.9	-52.9	-25	-27.9	H
5.027	-69.25	Pk	34.6	-28.7	8.4	-54.95	-25	-29.95	V
7.503	-60.49	Pk	36.1	-26.4	8	-42.79	-25	-17.79	V
10.04	-71.78	Pk	37.5	-22.8	8	-49.08	-25	-24.08	H
10.04	-72.9	Pk	37.5	-22.8	7.9	-50.3	-25	-25.3	V
Mid Channel, 2535MHz									
7.578	-60.15	Pk	36.3	-26.2	7.2	-42.85	-25	-17.85	H
5.065	-69.41	Pk	34.5	-28.8	8.7	-55.01	-25	-30.01	H
5.064	-68.98	Pk	34.5	-28.8	8.8	-54.48	-25	-29.48	V
7.578	-60.32	Pk	36.3	-26.3	7.2	-43.12	-25	-18.12	V
10.135	-71.96	Pk	37.7	-22.6	6.4	-50.46	-25	-25.46	H
10.146	-72.27	Pk	37.7	-22.7	6.4	-50.87	-25	-25.87	V
High Channel, 2560MHz									
5.118	-68.37	Pk	34.6	-28.8	9.1	-53.47	-25	-28.47	H
7.653	-60.72	Pk	36.4	-26	7.6	-42.72	-25	-17.72	H
5.114	-68.42	Pk	34.6	-28.8	9.3	-53.32	-25	-28.32	V
7.653	-58.45	Pk	36.4	-26	7.5	-40.55	-25	-15.55	V
10.24	-72.77	Pk	37.8	-22.6	7.6	-49.97	-25	-24.97	H
10.246	-72.78	Pk	37.8	-22.5	7.4	-50.08	-25	-25.08	V

Pk - Peak detector

9.2.4. LTE BAND 12

Company:	
Project #:	12607346
Date:	4/4/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 12 QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 704MHz									
1.411	-67.08	Pk	28.4	-32.6	12.2	-59.08	-13	-46.08	H
2.802	-66.67	Pk	32.4	-31	12.3	-52.97	-13	-39.97	H
1.408	-65.82	Pk	28.4	-32.5	12.3	-57.62	-13	-44.62	V
2.817	-67.2	Pk	32.4	-30.8	12.1	-53.5	-13	-40.5	V
2.103	-66.65	Pk	31.3	-31.8	12	-55.15	-13	-42.15	H
2.139	-66.01	Pk	31.3	-31.7	12.9	-53.51	-13	-40.51	V
Mid Channel, 707.5MHz									
1.406	-43.38	Pk	28.5	-33.2	10.5	-37.58	-13	-24.58	H
2.834	-68.49	Pk	32.5	-31	9.5	-57.49	-13	-44.49	H
1.406	-43.93	Pk	28.5	-33.2	9.8	-38.83	-13	-25.83	V
2.83	-68.12	Pk	32.5	-30.9	9.5	-57.02	-13	-44.02	V
2.109	-56.31	Pk	31.1	-31.9	10.3	-46.81	-13	-33.81	H
2.109	-65.32	Pk	31.1	-31.9	9.5	-56.62	-13	-43.62	V
High Channel, 711MHz									
1.405	-66.07	Pk	28.5	-32.5	13	-57.07	-13	-44.07	H
2.871	-66.83	Pk	32.3	-30.6	11.7	-53.43	-13	-40.43	H
1.408	-65.78	Pk	28.4	-32.5	12.3	-57.58	-13	-44.58	V
2.82	-66.7	Pk	32.4	-30.8	12.3	-52.8	-13	-39.8	V
2.12	-65.11	Pk	31.3	-31.8	13.1	-52.51	-13	-39.51	H
2.12	-62.64	Pk	31.3	-31.8	12.5	-50.64	-13	-37.64	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	4/4/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 12 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 704MHz									
1.411	-67.08	Pk	28.4	-32.6	12.2	-59.08	-13	-46.08	H
2.802	-66.67	Pk	32.4	-31	12.3	-52.97	-13	-39.97	H
1.408	-65.82	Pk	28.4	-32.5	12.3	-57.62	-13	-44.62	V
2.817	-67.2	Pk	32.4	-30.8	12.1	-53.5	-13	-40.5	V
2.103	-66.65	Pk	31.3	-31.8	12	-55.15	-13	-42.15	H
2.139	-66.01	Pk	31.3	-31.7	12.9	-53.51	-13	-40.51	V
Mid Channel, 707.5MHz									
1.406	-43.73	Pk	28.5	-33.2	10.5	-37.93	-13	-24.93	H
2.835	-68.12	Pk	32.5	-31	9.5	-57.12	-13	-44.12	H
1.406	-43.4	Pk	28.5	-33.2	9.8	-38.3	-13	-25.3	V
2.834	-68.76	Pk	32.5	-31	9.3	-57.96	-13	-44.96	V
2.109	-58.51	Pk	31.1	-31.9	10.3	-49.01	-13	-36.01	H
2.109	-58.15	Pk	31.1	-31.9	9.5	-49.45	-13	-36.45	V
High Channel, 711MHz									
1.409	-65.87	Pk	28.4	-32.6	12.5	-57.57	-13	-44.57	H
2.835	-66.67	Pk	32.4	-30.7	11.9	-53.07	-13	-40.07	H
1.462	-67.93	Pk	28.2	-32.5	12.3	-59.93	-13	-46.93	V
2.869	-66.86	Pk	32.3	-30.6	12.2	-52.96	-13	-39.96	V
2.12	-66.07	Pk	31.3	-31.8	13.1	-53.47	-13	-40.47	H
2.12	-60.51	Pk	31.3	-31.8	12.5	-48.51	-13	-35.51	V

Pk - Peak detector

9.2.5. LTE BAND 13

Project #:	12607346
Date:	4/8/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 13 QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	PK Margin (dB)	Polarity
Mid Channel, 782MHz									
1.412	-70.24	Pk	28.4	-33.1	10.1	-64.84	-40	-24.84	H
2.825	-72.19	Pk	32.5	-30.9	10	-60.59	-13	-47.59	H
1.422	-70.92	Pk	28.3	-33	8.9	-66.72	-40	-16.72	V
2.822	-71.25	Pk	32.5	-30.9	9.5	-60.15	-13	-47.15	V
2.119	-70.25	Pk	31.2	-31.8	10.4	-60.45	-13	-47.45	H
2.119	-70.29	Pk	31.2	-31.8	9.7	-61.19	-13	-48.19	V

Project #:	12607346
Date:	4/8/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 13 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 782MHz									
1.555	-65	Pk	27.7	-32.9	8.7	-61.5	-40	-21.5	H
2.347	-66.65	Pk	32.2	-31.7	10	-56.15	-13	-43.15	H
1.555	-65.3	Pk	27.7	-32.8	10	-60.4	-40	-20.4	V
2.347	-65.58	Pk	32.2	-31.7	9.4	-55.68	-13	-42.68	V
3.127	-66.5	Pk	33.2	-30.8	9.4	-54.7	-13	-41.7	H
3.13	-67.13	Pk	33.2	-30.8	10	-54.73	-13	-41.73	V

Pk - Peak detector

9.2.6. LTE BAND 14

Project #:	12607346
Date:	4/3/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 14 QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 793MHz									
1.59	-65.65	Pk	27.7	-32.8	9.6	-61.15	-40	-21.15	H
2.372	-67.13	Pk	32.3	-31.8	10.4	-56.23	-13	-43.23	H
1.588	-64.87	Pk	27.7	-32.8	10.2	-59.77	-40	-19.77	V
2.38	-66.55	Pk	32.3	-31.9	9.3	-56.85	-13	-43.85	V
3.164	-66.96	Pk	33.1	-30.7	9.8	-54.76	-13	-41.76	V
3.166	-67.32	Pk	33.1	-30.7	9.4	-55.52	-13	-42.52	H

Project #:	12607346
Date:	4/3/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 14 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 793MHz									
1.593	-65.04	Pk	27.7	-32.9	9.7	-60.54	-40	-20.54	H
2.387	-65.92	Pk	32.3	-31.7	10	-55.32	-13	-42.32	H
1.589	-64.93	Pk	27.7	-32.8	10.3	-59.73	-40	-19.73	V
2.379	-66.4	Pk	32.3	-31.9	9.5	-56.5	-13	-43.5	V
3.168	-66.87	Pk	33.1	-30.7	9.5	-54.97	-13	-41.97	H
3.172	-67.16	Pk	33.1	-30.7	9.8	-54.96	-13	-41.96	V

Pk - Peak detector

9.2.7. LTE BAND 17

Project #:	12607346
Date:	6/28/2019
Test Engineer:	52277
Configuration:	EUT Only
Mode:	LTE 17 QPSK 10MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 710MHz									
1.414	-71.28	Pk	28.7	-32	11.5	-63.08	-13	-50.08	H
2.839	-70.18	Pk	32.4	-29.8	11.7	-55.88	-13	-42.88	H
1.414	-69.87	Pk	28.7	-32	11.1	-62.07	-13	-49.07	V
2.837	-71.71	Pk	32.4	-29.9	11.6	-57.61	-13	-44.61	V
2.134	-71.18	Pk	31.7	-30.8	13.2	-57.08	-13	-44.08	V
2.136	-71.24	Pk	31.7	-30.8	12.3	-58.04	-13	-45.04	H

Project #:	12607346
Date:	6/28/2019
Test Engineer:	52277
Configuration:	EUT Only
Mode:	LTE 17 16QAM 10MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 710MHz									
1.418	-70.86	Pk	28.6	-31.9	10.8	-63.36	-13	-50.36	H
2.843	-69.27	Pk	32.4	-29.8	11.7	-54.97	-13	-41.97	H
1.419	-70.38	Pk	28.6	-31.9	10.6	-63.08	-13	-50.08	V
2.845	-72.43	Pk	32.4	-29.8	11.6	-58.23	-13	-45.23	V
2.131	-70.71	Pk	31.7	-30.8	12.5	-57.31	-13	-44.31	H
2.131	-71.13	Pk	31.7	-30.8	13.4	-56.83	-13	-43.83	V

Pk - Peak detector

9.2.8. LTE BAND 25

Company:	
Project #:	12607346
Date:	04/03/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 25 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.726	-68.01	Pk	33.3	-30.1	10.1	-54.71	-13	-41.71	H
7.443	-71.38	Pk	36.1	-26.6	7	-54.88	-13	-41.88	H
3.719	-68.01	Pk	33.3	-30.1	9.7	-55.11	-13	-42.11	V
7.437	-70.82	Pk	36.1	-26.6	7	-54.32	-13	-41.32	V
5.582	-68.82	Pk	35.5	-28.6	8.2	-53.72	-13	-40.72	H
5.583	-68.85	Pk	35.5	-28.6	8.1	-53.85	-13	-40.85	V
Mid Channel, 1882.5MHz									
3.769	-66.69	Pk	33.4	-30	9.3	-53.99	-13	-40.99	H
7.52	-70.25	Pk	36.2	-26.3	7.5	-52.85	-13	-39.85	H
3.765	-67.18	Pk	33.3	-30	9.6	-54.28	-13	-41.28	V
7.525	-69.66	Pk	36.2	-26.3	7.3	-52.46	-13	-39.46	V
5.638	-68.73	Pk	35.5	-28.6	8.4	-53.43	-13	-40.43	H
5.64	-68.51	Pk	35.5	-28.5	8.2	-53.31	-13	-40.31	V
High Channel, 1905MHz									
3.802	-66.54	Pk	33.4	-30.2	9.8	-53.54	-13	-40.54	H
7.614	-69.82	Pk	36.4	-26.3	7.5	-52.22	-13	-39.22	H
3.809	-67.39	Pk	33.4	-30.1	9.2	-54.89	-13	-41.89	V
7.617	-70.5	Pk	36.4	-26.4	7.4	-53.1	-13	-40.1	V
5.7	-68.46	Pk	35.5	-28	7.8	-53.16	-13	-40.16	H
5.705	-69.14	Pk	35.5	-28.1	7.5	-54.24	-13	-41.24	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	04/03/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 25 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.711	-67.03	Pk	33.3	-30	9.9	-53.83	-13	-40.83	H
7.428	-69.91	Pk	36.2	-26.7	6.8	-53.61	-13	-40.61	H
3.711	-67.88	Pk	33.3	-30	9.8	-54.78	-13	-41.78	V
7.415	-69.63	Pk	36.2	-26.6	7.1	-52.93	-13	-39.93	V
5.573	-69.23	Pk	35.5	-28.6	8.4	-53.93	-13	-40.93	V
5.577	-68.53	Pk	35.5	-28.5	8.2	-53.33	-13	-40.33	H
Mid Channel, 1882.5MHz									
3.762	-66.58	Pk	33.3	-30.1	9.3	-54.08	-13	-41.08	H
7.522	-71.04	Pk	36.2	-26.3	7.5	-53.64	-13	-40.64	H
3.758	-66.42	Pk	33.3	-30.1	9.6	-53.62	-13	-40.62	V
7.522	-70.4	Pk	36.2	-26.3	7.4	-53.1	-13	-40.1	V
5.641	-68.14	Pk	35.5	-28.5	8.1	-53.04	-13	-40.04	V
5.643	-68.36	Pk	35.5	-28.5	8	-53.36	-13	-40.36	H
High Channel, 1905MHz									
3.801	-67.9	Pk	33.4	-30.2	9.9	-54.8	-13	-41.8	H
7.617	-70.03	Pk	36.4	-26.4	7.6	-52.43	-13	-39.43	H
3.806	-67.42	Pk	33.4	-30.1	9.2	-54.92	-13	-41.92	V
7.611	-70.7	Pk	36.4	-26.3	7.3	-53.3	-13	-40.3	V
5.688	-60.59	Pk	35.5	-27.8	8.1	-44.79	-13	-31.79	H
5.688	-58.1	Pk	35.5	-27.8	7.9	-42.5	-13	-29.5	V

Pk - Peak detector

9.2.9. LTE BAND 26

Project #:	12607346
Date:	04/03/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 26(90S) QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 819MHz									
2.484	-66.63	Pk	32.6	-31.6	8.7	-56.93	-13	-43.93	V
1.655	-65.66	Pk	28.7	-32.8	9.6	-60.16	-13	-47.16	V
1.658	-65.46	Pk	28.8	-32.7	10.6	-58.76	-13	-45.76	H
2.483	-66.52	Pk	32.6	-31.6	8.7	-56.82	-13	-43.82	H
3.327	-68.09	Pk	32.9	-30.5	9	-56.69	-13	-43.69	H
3.328	-67.38	Pk	32.9	-30.5	9.2	-55.78	-13	-42.78	V

Project #:	12607346
Date:	04/03/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 26(90S) 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 819MHz									
1.661	-65.7	Pk	28.8	-32.7	10.3	-59.3	-13	-46.3	H
2.488	-66.77	Pk	32.6	-31.5	8.7	-56.97	-13	-43.97	H
2.487	-66.29	Pk	32.6	-31.5	8.7	-56.49	-13	-43.49	V
1.659	-65.7	Pk	28.8	-32.7	9.3	-60.3	-13	-47.3	V
3.327	-68.04	Pk	32.9	-30.5	9.1	-56.54	-13	-43.54	H
3.328	-67.42	Pk	32.9	-30.5	9.2	-55.82	-13	-42.82	V

Pk - Peak detector

9.2.10. LTE BAND 30

Project #:	12607346
Date:	04/04/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 30 QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.628	-68.39	Pk	34.1	-29.7	9.8	-54.19	-40	-14.19	H
4.623	-69.49	Pk	34.1	-29.6	9.5	-55.49	-40	-15.49	V
6.926	-69.75	Pk	35.8	-27.3	6.9	-54.35	-40	-14.35	V
6.928	-69.37	Pk	35.8	-27.3	6.8	-54.07	-40	-14.07	H
9.24	-71.89	Pk	36.8	-23.7	7.9	-50.89	-40	-10.89	V
9.246	-72.29	Pk	36.8	-23.9	7.7	-51.69	-40	-11.69	H

Project #:	12607346
Date:	04/04/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 30 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.62	-69.18	Pk	34.1	-29.6	9.5	-55.18	-40	-15.18	H
4.614	-68.83	Pk	34.1	-29.6	9.6	-54.73	-40	-14.73	V
6.916	-69.99	Pk	35.8	-27.3	6.3	-55.19	-40	-15.19	H
6.917	-68.32	Pk	35.8	-27.3	6.5	-53.32	-40	-13.32	V
9.24	-72.31	Pk	36.8	-23.8	7.9	-51.41	-40	-11.41	H
9.24	-71.86	Pk	36.8	-23.8	7.9	-50.96	-40	-10.96	V

Pk - Peak detector

9.2.11. LTE BAND 41

Company:	
Project #:	12607346
Date:	04/04/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 41 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2506MHz									
5.01	-72.72	Pk	34.6	-28.6	9	-57.72	-25	-32.72	H
7.491	-66.16	Pk	36.1	-26.5	7.7	-48.86	-25	-23.86	H
5.011	-73.52	Pk	34.6	-28.6	9	-58.52	-25	-33.52	V
7.491	-63.05	Pk	36.1	-26.5	7.6	-45.85	-25	-20.85	V
10.025	-76.1	Pk	37.5	-22.8	8.2	-53.2	-25	-28.2	H
10.027	-75.46	Pk	37.5	-22.9	8.1	-52.76	-25	-27.76	V
Mid Channel, 2593MHz									
5.183	-68.66	Pk	34.7	-28.9	9	-53.86	-25	-28.86	H
5.193	-68.45	Pk	34.7	-28.8	8.8	-53.75	-25	-28.75	V
7.752	-64.37	Pk	36.4	-26	7.4	-46.57	-25	-21.57	H
7.752	-55.73	Pk	36.4	-26	7.5	-37.83	-25	-12.83	V
10.372	-72.36	Pk	37.8	-22.4	7.9	-49.06	-25	-24.06	V
10.374	-72.6	Pk	37.8	-22.4	7.8	-49.4	-25	-24.4	H
High Channel, 2680MHz									
5.366	-69.48	Pk	35.1	-29.1	8.7	-54.78	-25	-29.78	H
8.039	-70.64	Pk	36.4	-25.4	8.2	-51.44	-25	-26.44	H
10.718	-72.86	Pk	37.8	-22.1	7.8	-49.36	-25	-24.36	H
5.365	-69.03	Pk	35.1	-29.1	8.7	-54.33	-25	-29.33	V
8.036	-70.8	Pk	36.4	-25.4	8.1	-51.7	-25	-26.7	V
10.719	-73.2	Pk	37.8	-22.1	7.8	-49.7	-25	-24.7	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	04/04/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 41 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2506MHz									
5.005	-69.51	Pk	34.6	-28.5	9.4	-54.01	-25	-29.01	H
7.524	-71.94	Pk	36.2	-26.3	7.4	-54.64	-25	-29.64	H
5.014	-69.45	Pk	34.6	-28.6	8.8	-54.65	-25	-29.65	V
7.524	-70.62	Pk	36.2	-26.3	7.3	-53.42	-25	-28.42	V
10.021	-73.17	Pk	37.5	-22.8	8.2	-50.27	-25	-25.27	V
10.022	-72.58	Pk	37.5	-22.8	8.2	-49.68	-25	-24.68	H
Mid Channel, 2593MHz									
5.186	-69.01	Pk	34.7	-28.9	8.6	-54.61	-25	-29.61	V
5.192	-68.77	Pk	34.7	-28.8	9	-53.87	-25	-28.87	H
7.777	-71.01	Pk	36.4	-26	7.8	-52.81	-25	-27.81	H
7.777	-70.81	Pk	36.4	-26	7.9	-52.51	-25	-27.51	V
10.374	-72.33	Pk	37.8	-22.4	7.9	-49.03	-25	-24.03	V
10.378	-73.23	Pk	37.8	-22.3	7.9	-49.83	-25	-24.83	H
High Channel, 2680MHz									
5.361	-69.08	Pk	35.1	-29.1	8.8	-54.28	-25	-29.28	H
8.044	-70.38	Pk	36.4	-25.2	8.1	-51.08	-25	-26.08	H
10.718	-73.12	Pk	37.8	-22.1	7.8	-49.62	-25	-24.62	H
5.363	-68.92	Pk	35.1	-29.1	8.7	-54.22	-25	-29.22	V
8.046	-70.48	Pk	36.4	-25.3	8	-51.38	-25	-26.38	V
10.72	-72.51	Pk	37.8	-22.1	7.8	-49.01	-25	-24.01	V

Pk - Peak detector

9.2.13. LTE BAND 66

Company:	
Project #:	12607346
Date:	04/02/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 66 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1720MHz									
3.43	-67.27	Pk	32.8	-30	9	-55.47	-13	-42.47	H
3.436	-67.28	Pk	32.8	-29.8	8.9	-55.38	-13	-42.38	V
5.156	-68.17	Pk	34.6	-28.6	9.2	-52.97	-13	-39.97	V
5.16	-67.32	Pk	34.6	-28.7	9.2	-52.22	-13	-39.22	H
6.874	-69.43	Pk	35.8	-27.5	6.6	-54.53	-13	-41.53	H
6.875	-68.98	Pk	35.8	-27.5	6.7	-53.98	-13	-40.98	V
Mid Channel, 1745MHz									
3.482	-67.5	Pk	32.9	-30	9.4	-55.2	-13	-42.2	H
3.488	-67.78	Pk	32.9	-30	9.5	-55.38	-13	-42.38	V
5.235	-67.22	Pk	34.8	-29.1	9.1	-52.42	-13	-39.42	H
5.235	-67.88	Pk	34.8	-29.1	8.8	-53.38	-13	-40.38	V
6.962	-69.49	Pk	35.9	-27	7.1	-53.49	-13	-40.49	V
6.965	-69.15	Pk	35.9	-27	7	-53.25	-13	-40.25	H
High Channel, 1770MHz									
3.537	-67.96	Pk	33	-30.2	9.4	-55.76	-13	-42.76	H
3.536	-67.92	Pk	33	-30.2	9.5	-55.62	-13	-42.62	V
5.292	-68.39	Pk	34.9	-28.8	7.9	-54.39	-13	-41.39	V
5.303	-68.25	Pk	34.9	-28.9	8.3	-53.95	-13	-40.95	H
7.07	-69.9	Pk	36	-26.5	7.1	-53.3	-13	-40.3	H
7.081	-69.61	Pk	36	-26.5	7.4	-52.71	-13	-39.71	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	04/02/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 66 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1720MHz									
5.147	-61.89	Pk	34.6	-28.7	9.1	-46.89	-13	-33.89	H
5.147	-58.67	Pk	34.6	-28.7	9	-43.77	-13	-30.77	V
3.43	-67.39	Pk	32.8	-30	9	-55.59	-13	-42.59	V
3.439	-66.76	Pk	32.9	-29.9	8.8	-54.96	-13	-41.96	H
6.867	-69.93	Pk	35.8	-27.4	6.5	-55.03	-13	-42.03	V
6.872	-69.63	Pk	35.8	-27.5	6.6	-54.73	-13	-41.73	H
Mid Channel, 1745MHz									
3.481	-71.89	Pk	32.9	-30	9.4	-59.59	-13	-46.59	H
3.485	-71.45	Pk	32.9	-30	9.5	-59.05	-13	-46.05	V
5.234	-72.04	Pk	34.8	-29.1	8.7	-57.64	-13	-44.64	V
5.235	-72.02	Pk	34.8	-29.1	9.1	-57.22	-13	-44.22	H
6.964	-74.28	Pk	35.9	-27	7	-58.38	-13	-45.38	V
6.965	-73.99	Pk	35.9	-27	7	-58.09	-13	-45.09	H
High Channel, 1770MHz									
3.537	-67.72	Pk	33	-30.2	9.4	-55.52	-13	-42.52	H
3.541	-67.83	Pk	33.1	-30.2	9.2	-55.73	-13	-42.73	V
5.307	-68.46	Pk	34.9	-28.9	8.5	-53.96	-13	-40.96	V
5.309	-68.26	Pk	34.9	-29	8.4	-53.96	-13	-40.96	H
7.066	-70.73	Pk	36	-26.4	7	-54.13	-13	-41.13	V
7.072	-69.9	Pk	36	-26.6	7.1	-53.4	-13	-40.4	H

Pk - Peak detector

9.2.14. LTE BAND 71

Company:	
Project #:	12607346
Date:	04/04/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 71 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 673MHz									
1.353	-64.5	Pk	28.5	-33.1	10.1	-59	-13	-46	H
2.679	-66.64	Pk	32.4	-31	9.5	-55.74	-13	-42.74	H
1.345	-64.18	Pk	28.5	-33.2	9.4	-59.48	-13	-46.48	V
2.683	-66.4	Pk	32.3	-31.1	10.1	-55.1	-13	-42.1	V
2.013	-66.01	Pk	30.9	-32	9	-58.11	-13	-45.11	H
2.016	-65.3	Pk	30.9	-32	9.4	-57	-13	-44	V
Mid Channel, 680.5MHz									
1.36	-65.9	Pk	28.5	-33.2	9.5	-61.1	-13	-48.1	H
2.724	-67.35	Pk	32.3	-31	9.9	-56.15	-13	-43.15	H
1.365	-65.04	Pk	28.5	-33.1	8	-61.64	-13	-48.64	V
2.721	-66.93	Pk	32.3	-31.1	9.9	-55.83	-13	-42.83	V
2.032	-66.79	Pk	31	-32.1	10.4	-57.49	-13	-44.49	V
2.042	-66.78	Pk	31	-32.1	9.7	-58.18	-13	-45.18	H
High Channel, 688MHz									
1.38	-65.39	Pk	28.5	-33	7.7	-62.19	-13	-49.19	H
2.75	-65.47	Pk	32.3	-31.1	9	-55.27	-13	-42.27	H
1.382	-65.61	Pk	28.5	-33	6.8	-63.31	-13	-50.31	V
2.743	-66.64	Pk	32.3	-30.9	8.7	-56.54	-13	-43.54	V
2.064	-65.72	Pk	31	-31.8	9.5	-57.02	-13	-44.02	H
2.069	-66.15	Pk	31	-31.8	9.8	-57.15	-13	-44.15	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	04/04/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 71 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 673MHz									
1.352	-64.6	Pk	28.5	-33.2	10.2	-59.1	-13	-46.1	H
2.685	-66.47	Pk	32.3	-31.1	8.8	-56.47	-13	-43.47	H
1.343	-64.71	Pk	28.5	-33.2	9.1	-60.31	-13	-47.31	V
2.685	-66.88	Pk	32.3	-31.1	10	-55.68	-13	-42.68	V
2.011	-66.12	Pk	30.9	-32	9.7	-57.52	-13	-44.52	V
2.017	-65.82	Pk	30.9	-32	9.1	-57.82	-13	-44.82	H
Mid Channel, 680.5MHz									
1.36	-64.09	Pk	28.5	-33.2	9.5	-59.29	-13	-46.29	H
2.721	-66.81	Pk	32.3	-31.1	9.9	-55.71	-13	-42.71	H
1.355	-64.93	Pk	28.5	-33.2	9	-60.63	-13	-47.63	V
2.718	-67.94	Pk	32.3	-31.1	10	-56.74	-13	-43.74	V
2.041	-67.19	Pk	31	-32	10.8	-57.39	-13	-44.39	V
2.044	-66.98	Pk	31	-32.1	9.7	-58.38	-13	-45.38	H
High Channel, 688MHz									
1.374	-65.62	Pk	28.5	-33.1	7.9	-62.32	-13	-49.32	H
2.744	-66.05	Pk	32.3	-30.9	9.1	-55.55	-13	-42.55	H
1.373	-65.97	Pk	28.5	-33.1	6.8	-63.77	-13	-50.77	V
2.747	-66.36	Pk	32.3	-31	8.5	-56.56	-13	-43.56	V
2.057	-65.81	Pk	31	-31.8	9.8	-56.81	-13	-43.81	H
2.062	-65.24	Pk	31	-31.8	9.6	-56.44	-13	-43.44	V

Pk - Peak detector

9.3. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 3

9.3.1. LTE BAND 2

Company:	
Project #:	12607346
Date:	4/5/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 2 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.702	-61.56	Pk	33.2	-30	10.2	-48.16	-13	-35.16	H
7.445	-71.12	Pk	36.1	-26.6	7.1	-54.52	-13	-41.52	H
3.702	-60.6	Pk	33.2	-30	9.7	-47.7	-13	-34.7	V
7.445	-70.53	Pk	36.1	-26.5	7	-53.93	-13	-40.93	V
5.581	-68.53	Pk	35.5	-28.6	8.2	-53.43	-13	-40.43	H
5.582	-69.2	Pk	35.5	-28.6	8.2	-54.1	-13	-41.1	V
Mid Channel, 1880MHz									
3.755	-67.63	Pk	33.3	-30	9.4	-54.93	-13	-41.93	H
7.514	-70.32	Pk	36.2	-26.3	7.6	-52.82	-13	-39.82	H
3.754	-67.85	Pk	33.3	-30.1	9.7	-54.95	-13	-41.95	V
7.524	-70.95	Pk	36.2	-26.3	7.3	-53.75	-13	-40.75	V
5.636	-68.64	Pk	35.5	-28.6	8.5	-53.24	-13	-40.24	H
5.638	-68.48	Pk	35.5	-28.6	8.4	-53.18	-13	-40.18	V
HighChannel, 1900MHz									
3.786	-68.1	Pk	33.4	-30.1	10.1	-54.7	-13	-41.7	H
7.598	-70.69	Pk	36.4	-26.2	7.5	-52.99	-13	-39.99	H
3.782	-67.73	Pk	33.4	-30.1	9.7	-54.73	-13	-41.73	V
7.604	-70.54	Pk	36.4	-26.3	7.6	-52.84	-13	-39.84	V
5.701	-69.18	Pk	35.5	-28	7.6	-54.08	-13	-41.08	V
5.702	-68.07	Pk	35.5	-28	7.8	-52.77	-13	-39.77	H

Pk - Peak detector

Company:	
Project #:	12607346
Date:	4/5/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 2 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.702	-60.38	Pk	33.2	-30	10.2	-46.98	-13	-33.98	H
7.443	-70.55	Pk	36.1	-26.6	7	-54.05	-13	-41.05	H
3.702	-59.43	Pk	33.2	-30	9.7	-46.53	-13	-33.53	V
7.442	-69.82	Pk	36.1	-26.6	6.9	-53.42	-13	-40.42	V
5.574	-69.02	Pk	35.5	-28.6	8.3	-53.82	-13	-40.82	V
5.581	-68.41	Pk	35.5	-28.5	8.3	-53.11	-13	-40.11	H
Mid Channel, 1880MHz									
3.742	-62.68	Pk	33.3	-30.3	9.9	-49.78	-13	-36.78	H
7.521	-71.17	Pk	36.2	-26.3	7.5	-53.77	-13	-40.77	H
3.742	-61.3	Pk	33.3	-30.3	9.7	-48.6	-13	-35.6	V
7.519	-70.75	Pk	36.2	-26.3	7.4	-53.45	-13	-40.45	V
5.64	-68.83	Pk	35.5	-28.5	8.3	-53.53	-13	-40.53	H
5.641	-68.86	Pk	35.5	-28.5	8.1	-53.76	-13	-40.76	V
High Channel, 1900MHz									
3.782	-59.14	Pk	33.4	-30.1	10	-45.84	-13	-32.84	H
7.601	-70.92	Pk	36.4	-26.3	7.6	-53.22	-13	-40.22	H
3.782	-59.64	Pk	33.4	-30.1	9.7	-46.64	-13	-33.64	V
7.602	-71.3	Pk	36.4	-26.3	7.5	-53.7	-13	-40.7	V
5.697	-69.51	Pk	35.5	-28.1	7.7	-54.41	-13	-41.41	H
5.699	-68.27	Pk	35.5	-28	7.6	-53.17	-13	-40.17	V

Pk - Peak detector

9.3.2. LTE BAND 7

Company:	
Project #:	12607346
Date:	4/5/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 7 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2510MHz									
5.02	-69.89	Pk	34.6	-28.6	8.6	-55.29	-25	-30.29	H
7.533	-70.32	Pk	36.2	-26.4	7.4	-53.12	-25	-28.12	H
5.026	-69.9	Pk	34.6	-28.8	8.5	-55.6	-25	-30.6	V
7.528	-70.57	Pk	36.2	-26.3	7.3	-53.37	-25	-28.37	V
10.037	-72.46	Pk	37.5	-22.7	8	-49.66	-25	-24.66	H
10.037	-73.01	Pk	37.5	-22.7	8	-50.21	-25	-25.21	V
Mid Channel, 2535MHz									
5.069	-68.43	Pk	34.5	-28.7	8.6	-54.03	-25	-29.03	H
7.578	-70.53	Pk	36.3	-26.3	7.2	-53.33	-25	-28.33	H
5.07	-69.61	Pk	34.5	-28.7	8.5	-55.31	-25	-30.31	V
7.58	-69.91	Pk	36.3	-26.2	7.2	-52.61	-25	-29.61	V
10.139	-72.38	Pk	37.7	-22.6	6.4	-50.88	-25	-25.88	H
10.14	-72.35	Pk	37.7	-22.6	6.4	-50.85	-25	-25.85	V
High Channel, 2560MHz									
5.114	-68.03	Pk	34.6	-28.8	9.3	-52.93	-25	-27.93	H
7.653	-66.12	Pk	36.4	-26	7.6	-48.12	-25	-23.12	H
7.653	-62.57	Pk	36.4	-26	7.5	-44.67	-25	-19.67	V
5.114	-67.28	Pk	34.6	-28.8	9.3	-52.18	-25	-27.18	V
10.24	-72.71	Pk	37.8	-22.6	7.7	-49.81	-25	-24.81	H
10.243	-71.93	Pk	37.8	-22.5	7.5	-49.13	-25	-24.13	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	4/5/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 7 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2510MHz									
5.021	-70.39	Pk	34.6	-28.6	8.6	-55.79	-25	-30.79	H
7.501	-70.77	Pk	36.1	-26.4	7.8	-53.27	-25	-28.27	H
5.025	-69.51	Pk	34.6	-28.7	8.7	-54.91	-25	-29.91	V
7.503	-70.34	Pk	36.1	-26.4	7.9	-52.74	-25	-27.74	V
10.037	-72.63	Pk	37.5	-22.8	7.9	-50.03	-25	-25.03	V
10.043	-72.16	Pk	37.5	-22.8	8	-49.46	-25	-14.46	H
Mid Channel, 2535MHz									
5.067	-69.25	Pk	34.5	-28.7	8.7	-54.75	-25	-29.75	H
7.601	-70.91	Pk	36.4	-26.3	7.6	-53.21	-25	-28.21	H
5.067	-69.24	Pk	34.5	-28.7	8.7	-54.74	-25	-29.74	V
7.6	-70.83	Pk	36.4	-26.3	7.4	-53.33	-25	-28.33	V
10.143	-72.73	Pk	37.7	-22.6	6.5	-51.13	-25	-26.13	H
10.143	-72.18	Pk	37.7	-22.6	6.4	-50.68	-25	-25.68	V
High Channel, 2560MHz									
7.653	-69.75	Pk	36.4	-26	7.6	-51.75	-25	-26.75	H
5.114	-68.64	Pk	34.6	-28.8	9.3	-53.54	-25	-28.54	V
7.655	-69.58	Pk	36.4	-26	7.6	-51.58	-25	-26.58	V
9.5	-72.08	Pk	36.9	-23.6	8.5	-50.28	-25	-25.28	H
10.242	-72.82	Pk	37.8	-22.6	7.5	-50.12	-25	-25.12	V
10.247	-72.71	Pk	37.8	-22.4	7.4	-49.91	-25	-24.91	H

Pk - Peak detector

9.3.3. LTE BAND 25

Company:	
Project #:	12607346
Date:	04/06/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 25 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
4.574	-68.48	Pk	34	-29.2	10.1	-53.58	-13	-40.58	H
2.261	-68.71	Pk	31.8	-31.7	9.2	-59.41	-13	-46.41	V
4.52	-69.83	Pk	33.9	-29.1	10.5	-54.53	-13	-41.53	V
11.434	-72.92	Pk	38.4	-21.6	8	-48.12	-13	-35.12	V
2.572	-68.88	Pk	32.7	-31.4	10.6	-56.98	-13	-43.98	H
8.628	-71.43	Pk	36.2	-24.4	8.3	-51.33	-13	-38.33	H
Mid Channel, 1882.5MHz									
3.727	-66.38	Pk	33.3	-30.1	10.1	-53.08	-13	-40.08	H
5.143	-67.38	Pk	34.6	-28.7	8.9	-52.58	-13	-39.58	H
2.229	-65.95	Pk	31.6	-32	9.9	-56.45	-13	-43.45	V
2.503	-65.41	Pk	32.7	-31.6	8.9	-55.41	-13	-42.41	H
4.464	-69.93	Pk	33.8	-29.1	10	-55.23	-13	-42.23	V
5.621	-61.37	Pk	35.5	-28.4	8.7	-45.57	-13	-32.57	V
High Channel, 1905MHz									
3.792	-62.73	Pk	33.4	-30.2	10.3	-49.23	-13	-36.23	H
3.792	-57.35	Pk	33.4	-30.2	9.7	-44.45	-13	-31.45	V
2.596	-65.88	Pk	32.7	-31.4	9.1	-55.48	-13	-42.48	H
2.618	-66.32	Pk	32.6	-31.3	9.7	-55.32	-13	-42.32	V
5.688	-59.5	Pk	35.5	-27.7	8.1	-43.6	-13	-30.6	H
5.688	-59.37	Pk	35.5	-27.8	7.9	-43.77	-13	-30.77	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	04/06/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 25 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
4.203	-67.58	Pk	33.6	-29.4	9.8	-53.58	-13	-40.58	H
9.024	-70.75	Pk	36.8	-23.9	8.6	-49.25	-13	-36.25	H
3.702	-60.43	Pk	33.2	-30	9.7	-47.53	-13	-34.53	V
11.5	-72.71	Pk	38.5	-21.5	8.6	-47.11	-13	-34.11	V
2.137	-66.16	Pk	31.2	-31.7	11.7	-54.96	-13	-41.96	H
5.553	-62.62	Pk	35.4	-28.3	8.8	-46.72	-13	-33.72	V
Mid Channel, 1882.5MHz									
2.321	-67.67	Pk	32.1	-31.6	10.9	-56.27	-13	-43.27	H
4.511	-69.54	Pk	33.9	-29.2	10.2	-54.64	-13	-41.64	H
1.3	-67.64	Pk	28.4	-33.2	10.8	-61.64	-13	-48.64	V
8.412	-73.98	Pk	36.2	-25.1	8.3	-54.58	-13	-41.58	V
3.16	-66.87	Pk	33.1	-30.6	10.1	-54.27	-13	-41.27	V
5.642	-68.15	Pk	35.5	-28.5	8.1	-53.05	-13	-40.05	H
High Channel, 1905MHz									
1.538	-64.21	Pk	27.7	-32.9	8.3	-61.11	-13	-48.11	H
1.491	-65.24	Pk	27.8	-33	9.6	-60.84	-13	-47.84	V
2.826	-66.37	Pk	32.5	-30.9	9.7	-55.07	-13	-42.07	V
2.097	-65.28	Pk	31.1	-32	10.7	-55.48	-13	-42.48	H
4.468	-67.57	Pk	33.8	-29.3	10.1	-52.97	-13	-39.97	V
5.542	-69.12	Pk	35.4	-28.5	8.8	-53.42	-13	-40.42	H

Pk - Peak detector

9.3.4. LTE BAND 30

Project #:	12607346
Date:	04/10/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 30 QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.611	-66.09	Pk	34.1	-29.5	9.4	-52.09	-40	-12.09	H
4.592	-67.72	Pk	34.1	-29.4	9.4	-53.62	-40	-13.62	V
6.911	-69.74	Pk	35.8	-27.4	6.5	-54.84	-40	-14.84	H
6.917	-68.35	Pk	35.8	-27.3	6.5	-53.35	-40	-13.35	V
9.227	-72.11	Pk	36.8	-23.6	8.1	-50.81	-40	-10.81	H
9.261	-72.54	Pk	36.8	-24.1	7.9	-51.94	-40	-11.94	V

Project #:	12607346
Date:	04/10/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 30 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.611	-65.54	Pk	34.1	-29.5	9.4	-51.54	-40	-11.54	H
4.611	-68.14	Pk	34.1	-29.5	9.3	-54.24	-40	-14.24	V
6.918	-69.69	Pk	35.8	-27.3	6.5	-54.69	-40	-14.69	H
6.934	-68.67	Pk	35.8	-27.4	6.7	-53.57	-40	-13.57	V
9.23	-71.34	Pk	36.8	-23.5	7.9	-50.14	-40	-10.14	H
9.235	-71.81	Pk	36.8	-23.6	8	-50.61	-40	-10.61	V

Pk - Peak detector

9.3.5. LTE BAND 41

Company:	
Project #:	12607346
Date:	04/05/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 41 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2506MHz									
5.003	-69.29	Pk	34.6	-28.5	9.4	-53.79	-25	-28.79	H
7.508	-70.39	Pk	36.2	-26.4	7.8	-52.79	-25	-27.79	H
5.003	-69.13	Pk	34.6	-28.5	9.3	-53.73	-25	-28.73	V
7.51	-70.95	Pk	36.2	-26.3	7.8	-53.25	-25	-28.25	V
10.184	-72.05	Pk	37.8	-22.5	7.4	-49.35	-25	-24.35	H
10.184	-72.39	Pk	37.8	-22.5	7.3	-49.79	-25	-24.79	V
Mid Channel, 2593MHz									
5.179	-67.49	Pk	34.7	-28.9	8.9	-52.79	-25	-27.79	H
5.179	-68.07	Pk	34.7	-28.9	8.5	-53.77	-25	-28.77	V
7.783	-70.64	Pk	36.4	-25.9	7.6	-52.54	-25	-27.54	H
7.783	-70.22	Pk	36.4	-25.9	7.8	-51.92	-25	-26.92	V
10.365	-72.95	Pk	37.8	-22.5	7.6	-50.05	-25	-25.05	H
10.371	-72.42	Pk	37.8	-22.4	7.9	-49.12	-25	-24.12	V
High Channel, 2680MHz									
5.352	-68.96	Pk	35	-29	8.2	-54.76	-25	-29.76	H
8.035	-70.5	Pk	36.4	-25.5	8.1	-51.5	-25	-26.5	H
10.711	-72.93	Pk	37.8	-22	8	-49.13	-25	-24.13	H
5.36	-68.98	Pk	35.1	-29.1	8.8	-54.18	-25	-29.18	V
8.037	-70.62	Pk	36.4	-25.4	8.1	-51.52	-25	-26.52	V
10.715	-72.96	Pk	37.8	-22	7.8	-49.36	-25	-24.36	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	04/05/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 41 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2506MHz									
5	-69.27	Pk	34.6	-28.5	9.7	-53.47	-25	-28.47	H
7.508	-70.67	Pk	36.1	-26.4	7.8	-53.17	-25	-28.17	H
4.998	-69.29	Pk	34.6	-28.3	9.8	-53.19	-25	-28.19	V
7.509	-70.75	Pk	36.2	-26.3	7.8	-53.05	-25	-28.05	V
10.182	-72.04	Pk	37.8	-22.5	7.3	-49.44	-25	-24.44	V
10.183	-72.35	Pk	37.8	-22.5	7.4	-49.65	-25	-24.65	H
Mid Channel, 2593MHz									
5.181	-66.84	Pk	34.7	-28.9	8.6	-52.44	-25	-27.44	V
5.185	-68.33	Pk	34.7	-28.9	9	-53.53	-25	-28.53	H
7.776	-69.73	Pk	36.4	-26	7.9	-51.43	-25	-26.43	H
7.778	-70.73	Pk	36.4	-25.9	7.9	-52.33	-25	-27.33	V
10.366	-72.57	Pk	37.8	-22.4	7.7	-49.47	-25	-24.47	H
10.37	-73.19	Pk	37.8	-22.4	7.9	-49.89	-25	-24.89	V
High Channel, 2680MHz									
5.359	-69.16	Pk	35.1	-29.1	8.9	-54.26	-25	-29.26	H
8.038	-70.5	Pk	36.4	-25.4	8.2	-51.3	-25	-26.3	H
10.699	-72.25	Pk	37.8	-22	8.5	-47.95	-25	-22.95	H
5.353	-68.17	Pk	35	-29	7.9	-54.27	-25	-29.27	V
8.037	-70.69	Pk	36.4	-25.4	8.1	-51.59	-25	-26.59	V
10.706	-72.9	Pk	37.8	-22	8.2	-48.9	-25	-23.9	V

Pk - Peak detector

9.3.6. LTE BAND 48

Company:	
Project #:	12607346
Date:	6/27/2019
Test Engineer:	23567
Configuration:	EUT Only
Mode:	LTE 48 QPSK 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 3560MHz									
7.1	-73.35	Pk	36	-24.2	10	-51.55	-40	-11.55	H
7.112	-73.77	Pk	36.1	-24.3	10.4	-51.57	-40	-11.57	V
10.666	-74.63	Pk	37.9	-20.2	10.5	-46.43	-40	-6.43	H
10.68	-75.77	Pk	37.9	-20.1	10.9	-47.07	-40	-7.07	V
14.217	-75.04	Pk	38.9	-19.2	11.2	-44.14	-40	-4.14	V
14.238	-75.7	Pk	38.9	-19.4	11.1	-45.10	-40	-5.10	H
Mid Channel, 3625MHz									
7.242	-74.47	Pk	35.8	-24.1	11.1	-51.67	-40	-11.67	V
7.266	-73.81	Pk	35.8	-24.1	10.6	-51.51	-40	-11.51	H
10.863	-76.9	Pk	38	-19.7	11.3	-47.30	-40	-7.30	V
10.866	-76.66	Pk	38	-19.6	10.9	-47.36	-40	-7.36	H
14.433	-74.81	Pk	39.3	-19.6	10.5	-44.61	-40	-4.61	V
14.512	-76.15	Pk	39.4	-19.6	10.8	-45.55	-40	-5.55	H
High Channel, 3690MHz									
7.35	-74.29	Pk	35.7	-23.7	11	-51.29	-40	-11.29	V
7.363	-74.33	Pk	35.7	-23.7	10.8	-51.53	-40	-11.53	H
11.033	-76.09	Pk	37.9	-20	10.8	-47.39	-40	-7.39	V
11.057	-76.02	Pk	37.9	-19.8	10.5	-47.42	-40	-7.42	H
14.711	-76.25	Pk	39.7	-19.1	10.6	-45.05	-40	-5.05	V
14.739	-75.19	Pk	39.7	-19.2	10.2	-44.49	-40	-4.49	H

Pk - Peak detector

Company:	
Project #:	12607346
Date:	6/27/2019
Test Engineer:	23567
Configuration:	EUT Only
Mode:	LTE 48 16QAM 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T346 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 3560MHz									
7.113	-72.09	Pk	36.1	-24.3	10.4	-49.89	-40	-9.89	V
7.123	-74.29	Pk	36.2	-24.3	10.7	-51.69	-40	-11.69	H
10.678	-76.87	Pk	37.9	-20.1	10.8	-48.27	-40	-8.27	V
10.685	-75.11	Pk	37.9	-20.1	10.7	-46.61	-40	-6.61	H
14.189	-73.29	Pk	38.8	-19.3	10.9	-42.89	-40	-2.89	V
14.236	-75.06	Pk	38.9	-19.4	11.1	-44.46	-40	-4.46	H
Mid Channel, 3625MHz									
7.26	-73.23	Pk	35.8	-24.1	10.5	-51.03	-40	-11.03	H
7.276	-74.11	Pk	35.8	-24.1	10.7	-51.71	-40	-11.71	V
10.826	-74.36	Pk	37.9	-19.2	10.3	-45.36	-40	-5.36	V
10.863	-76.93	Pk	38	-19.6	11	-47.53	-40	-7.53	H
14.487	-75.85	Pk	39.4	-19.5	10.6	-45.35	-40	-5.35	V
14.515	-75.11	Pk	39.4	-19.5	10.8	-44.41	-40	-4.41	H
High Channel, 3690MHz									
7.36	-75.27	Pk	35.7	-23.7	11.3	-51.97	-40	-11.97	V
7.376	-74.41	Pk	35.7	-23.5	11	-51.21	-40	-11.21	H
11.04	-76.14	Pk	37.9	-19.9	10.9	-47.24	-40	-7.24	V
11.059	-76.14	Pk	37.9	-19.8	10.5	-47.54	-40	-7.54	H
14.71	-75.54	Pk	39.7	-19.1	10.6	-44.34	-40	-4.34	V
14.733	-75.16	Pk	39.7	-19	10.3	-44.16	-40	-4.16	H

Pk - Peak detector

9.3.7. LTE BAND 66

Company:	
Project #:	12607346
Date:	04/05/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 66 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1720MHz									
3.432	-66.81	Pk	32.8	-29.9	8.9	-55.01	-13	-42.01	H
3.436	-66.9	Pk	32.8	-29.8	8.9	-55	-13	-42	V
5.153	-67.91	Pk	34.6	-28.7	9.2	-52.81	-13	-39.81	H
5.157	-68.54	Pk	34.6	-28.6	9.3	-53.24	-13	-40.24	V
6.87	-69.69	Pk	35.8	-27.5	6.5	-54.89	-13	-41.89	H
6.87	-69.25	Pk	35.8	-27.5	6.6	-54.35	-13	-41.35	V
Mid Channel, 1745MHz									
3.487	-67.87	Pk	32.9	-30	9.5	-55.47	-13	-42.47	H
3.495	-67.07	Pk	32.9	-29.8	9.6	-54.37	-13	-41.37	V
5.152	-67.86	Pk	34.6	-28.7	9.1	-52.86	-13	-39.86	V
5.157	-67.73	Pk	34.6	-28.6	9.1	-52.63	-13	-39.63	H
6.961	-69.41	Pk	35.9	-27	7	-53.51	-13	-40.51	H
6.961	-69.61	Pk	35.9	-27	7.1	-53.61	-13	-40.61	V
High Channel, 1770MHz									
3.529	-71.79	Pk	33	-30.2	9.7	-59.29	-13	-46.29	H
3.539	-73.55	Pk	33.1	-30.2	9.3	-61.35	-13	-48.35	V
5.297	-72.44	Pk	34.9	-29	7.7	-58.84	-13	-45.84	V
5.298	-71.86	Pk	34.9	-29	8	-57.96	-13	-44.96	H
7.072	-74.13	Pk	36	-26.6	7.2	-57.53	-13	-44.53	V
7.076	-73.87	Pk	36	-26.5	7.1	-57.27	-13	-44.27	H

Pk - Peak detector

Company:	
Project #:	12607346
Date:	04/05/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 66 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1720MHz									
3.436	-67.47	Pk	32.8	-29.8	8.8	-55.67	-13	-42.67	H
3.441	-67.3	Pk	32.9	-30	8.8	-55.6	-13	-42.6	V
5.153	-67.51	Pk	34.6	-28.7	9.1	-52.51	-13	-39.51	H
5.155	-68.17	Pk	34.6	-28.6	9.2	-52.97	-13	-39.97	V
6.872	-69.34	Pk	35.8	-27.5	6.6	-54.44	-13	-41.44	H
6.876	-69.63	Pk	35.8	-27.4	6.7	-54.53	-13	-41.53	V
Mid Channel, 1745MHz									
3.493	-68.15	Pk	32.9	-29.9	9.6	-55.55	-13	-42.55	V
3.496	-67.19	Pk	32.9	-29.8	9.5	-54.59	-13	-41.59	H
5.155	-68.19	Pk	34.6	-28.6	9.2	-52.99	-13	-39.99	V
5.156	-68.37	Pk	34.6	-28.6	9.1	-53.27	-13	-40.27	H
6.963	-69.61	Pk	35.9	-27	7	-53.71	-13	-40.71	H
6.964	-70.19	Pk	35.9	-27	7	-54.29	-13	-41.29	V
High Channel, 1770MHz									
3.528	-68.08	Pk	33	-30.2	9.7	-55.58	-13	-42.58	H
3.53	-67.86	Pk	33	-30.2	9.9	-55.16	-13	-42.16	V
5.294	-67.97	Pk	34.9	-28.9	8.2	-53.77	-13	-40.77	H
5.303	-68.72	Pk	34.9	-28.9	8.1	-54.62	-13	-41.62	V
7.073	-69.87	Pk	36	-26.6	7.1	-53.37	-13	-40.37	V
7.081	-69.69	Pk	36	-26.5	7.3	-52.89	-13	-39.89	H

Pk - Peak detector

9.4. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 4

9.4.1. LTE BAND 2

Company:	
Project #:	12607346
Date:	4/8/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 2 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.721	-68.64	Pk	33.3	-30.1	9.9	-55.54	-13	-42.54	H
7.441	-70.91	Pk	36.1	-26.7	6.9	-54.61	-13	-41.61	H
3.715	-68.68	Pk	33.3	-30	9.7	-55.68	-13	-42.68	V
7.444	-70.44	Pk	36.1	-26.6	6.9	-54.04	-13	-41.04	V
5.578	-68.56	Pk	35.5	-28.5	8.3	-53.26	-13	-40.26	V
5.58	-68.86	Pk	35.5	-28.5	8.3	-53.56	-13	-40.56	H
Mid Channel, 1880MHz									
3.714	-68.62	Pk	33.3	-30	9.8	-55.52	-13	-42.52	H
7.443	-70.82	Pk	36.1	-26.6	7	-54.32	-13	-41.32	H
3.715	-68.67	Pk	33.3	-30	9.7	-55.67	-13	-42.67	V
7.444	-70.34	Pk	36.1	-26.6	6.9	-53.94	-13	-40.94	V
5.576	-68.16	Pk	35.5	-28.6	8.3	-52.96	-13	-39.96	V
5.578	-69.08	Pk	35.5	-28.5	8.2	-53.88	-13	-40.88	H
HighChannel, 1900MHz									
3.803	-68.36	Pk	33.4	-30.1	9.8	-55.26	-13	-42.26	H
7.602	-70.65	Pk	36.4	-26.3	7.6	-52.95	-13	-39.95	H
3.808	-68.24	Pk	33.4	-30.1	9.1	-55.84	-13	-42.84	V
7.604	-71.13	Pk	36.4	-26.3	7.6	-53.43	-13	-40.43	V
5.698	-69.24	Pk	35.5	-28.1	7.7	-54.14	-13	-41.14	H
5.702	-69.53	Pk	35.5	-28	7.5	-54.53	-13	-41.53	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	4/8/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 2 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.711	-68.43	Pk	33.2	-29.9	9.9	-55.23	-13	-42.23	H
7.442	-70.98	Pk	36.1	-26.6	7	-54.48	-13	-41.48	H
3.724	-68.55	Pk	33.3	-30.1	10	-55.35	-13	-42.35	V
7.439	-69.9	Pk	36.1	-26.7	6.9	-53.6	-13	-40.6	V
5.58	-69.09	Pk	35.5	-28.5	8.3	-53.79	-13	-40.79	H
5.581	-69.01	Pk	35.5	-28.6	8.2	-53.91	-13	-40.91	V
Mid Channel, 1880MHz									
3.724	-66.86	Pk	33.3	-30.1	10.1	-53.56	-13	-40.56	H
7.446	-70.77	Pk	36.1	-26.5	7.2	-53.97	-13	-40.97	H
3.722	-68.65	Pk	33.3	-30.1	9.9	-55.55	-13	-42.55	V
7.44	-70.87	Pk	36.1	-26.7	6.9	-54.57	-13	-41.57	V
5.578	-69.17	Pk	35.5	-28.5	8.3	-53.87	-13	-40.87	V
5.579	-69.2	Pk	35.5	-28.5	8.2	-54	-13	-41	H
HighChannel, 1900MHz									
3.803	-68.26	Pk	33.4	-30.2	9.8	-55.26	-13	-42.26	H
7.603	-71.25	Pk	36.4	-26.3	7.6	-53.55	-13	-40.55	H
3.803	-68.77	Pk	33.4	-30.2	9.4	-56.17	-13	-43.17	V
7.601	-71.54	Pk	36.4	-26.3	7.5	-53.94	-13	-40.94	V
5.698	-68.77	Pk	35.5	-28.1	7.6	-53.77	-13	-40.77	V
5.701	-68.4	Pk	35.5	-28	7.8	-53.1	-13	-40.1	H

Pk - Peak detector

9.4.2. LTE BAND 7

Company:	
Project #:	12607346
Date:	4/8/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 7 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2510MHz									
5.024	-69.43	Pk	34.6	-28.7	8.5	-55.03	-25	-30.03	H
7.504	-70.58	Pk	36.1	-26.4	7.9	-52.98	-25	-27.98	H
5.023	-68.63	Pk	34.6	-28.6	8.8	-53.83	-25	-28.83	V
7.503	-64.93	Pk	36.1	-26.4	8	-47.23	-25	-22.23	V
10.036	-71.83	Pk	37.5	-22.7	8	-49.03	-25	-24.03	H
10.036	-72.49	Pk	37.5	-22.7	8	-49.69	-25	-24.69	V
Mid Channel, 2535MHz									
5.073	-68.83	Pk	34.5	-28.7	8.5	-54.53	-25	-39.53	H
7.578	-69.16	Pk	36.3	-26.3	7.2	-51.96	-25	-26.96	H
5.063	-69.13	Pk	34.5	-28.8	8.8	-54.63	-25	-29.63	V
7.578	-63.55	Pk	36.3	-26.3	7.2	-46.35	-25	-21.35	V
10.147	-72.56	Pk	37.8	-22.7	6.4	-51.06	-25	-26.06	V
10.152	-71.83	Pk	37.8	-22.7	6.6	-50.13	-25	-25.13	H
High Channel, 2560MHz									
5.112	-69.51	Pk	34.5	-28.8	9.3	-54.51	-25	-29.51	H
7.678	-71.3	Pk	36.4	-25.9	7.8	-53	-25	-28	H
5.119	-69.59	Pk	34.6	-28.8	8.9	-54.89	-25	-29.89	V
7.683	-70.71	Pk	36.4	-26.1	7.6	-52.81	-25	-27.81	V
10.239	-72.02	Pk	37.8	-22.6	7.5	-49.32	-25	-24.32	V
10.243	-72.03	Pk	37.8	-22.5	7.6	-49.13	-25	-24.13	H

Pk - Peak detector

Company:	
Project #:	12607346
Date:	4/8/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 7 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2510MHz									
5.018	-69.55	Pk	34.6	-28.6	8.5	-55.05	-25	-30.05	H
7.503	-70.15	Pk	36.1	-26.4	7.9	-52.55	-25	-27.55	H
5.017	-69.39	Pk	34.6	-28.6	8.7	-54.69	-25	-29.69	V
7.503	-64.58	Pk	36.1	-26.4	7.9	-46.98	-25	-21.98	V
10.038	-72.78	Pk	37.5	-22.8	7.9	-50.18	-25	-25.18	V
10.043	-72.53	Pk	37.5	-22.8	8	-49.83	-25	-24.83	H
Mid Channel, 2535MHz									
5.076	-71.69	Pk	34.5	-28.7	8.5	-57.39	-25	-32.39	H
7.603	-74.92	Pk	36.4	-26.3	7.6	-57.22	-25	-32.22	H
5.048	-73.16	Pk	34.6	-28.6	9.4	-57.76	-25	-32.76	V
7.578	-71.17	Pk	36.3	-26.2	7.2	-53.87	-25	-28.87	V
10.093	-76.26	Pk	37.7	-22.9	7.4	-54.06	-25	-29.06	V
10.124	-76.67	Pk	37.7	-22.8	6.7	-55.07	-25	-30.07	H
High Channel, 2560MHz									
5.12	-69.07	Pk	34.6	-28.9	8.9	-54.47	-25	-29.47	H
7.681	-71.21	Pk	36.4	-26	7.7	-53.11	-25	-28.11	H
5.119	-69.62	Pk	34.6	-28.8	8.9	-54.92	-25	-29.92	V
7.681	-70.39	Pk	36.4	-26	7.6	-52.39	-25	-27.39	V
10.241	-72.81	Pk	37.8	-22.6	7.6	-50.01	-25	-25.01	H
10.243	-72.4	Pk	37.8	-22.5	7.5	-49.6	-25	-24.6	V

Pk - Peak detector

9.4.3. LTE BAND 25

Company:	
Project #:	12607346
Date:	04/08/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 25 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.723	-68.05	Pk	33.3	-30.1	10.1	-54.75	-13	-41.75	H
7.445	-70.61	Pk	36.1	-26.6	7.1	-54.01	-13	-41.01	H
3.718	-68.03	Pk	33.3	-30.1	9.7	-55.13	-13	-42.13	V
7.444	-71.17	Pk	36.1	-26.6	6.9	-54.77	-13	-41.77	V
5.582	-68.74	Pk	35.5	-28.6	8.2	-53.64	-13	-40.64	H
5.582	-69.49	Pk	35.5	-28.6	8.2	-54.39	-13	-41.39	V
Mid Channel, 1882.5MHz									
3.768	-66.34	Pk	33.4	-30	9.2	-53.74	-13	-40.74	H
7.529	-70.64	Pk	36.2	-26.3	7.5	-53.24	-13	-40.24	H
3.766	-66.43	Pk	33.3	-30	9.6	-53.53	-13	-40.53	V
7.525	-69.57	Pk	36.2	-26.3	7.3	-52.37	-13	-39.37	V
5.63	-68.54	Pk	35.5	-28.6	8.4	-53.24	-13	-40.24	H
5.639	-68.73	Pk	35.5	-28.5	8.2	-53.53	-13	-40.53	V
High Channel, 1905MHz									
3.811	-67.78	Pk	33.4	-30.1	9.3	-55.18	-13	-42.18	H
7.614	-69.73	Pk	36.4	-26.4	7.5	-52.23	-13	-39.23	H
3.814	-66.98	Pk	33.4	-30.1	9.7	-53.98	-13	-40.98	V
7.608	-69.84	Pk	36.4	-26.3	7.5	-52.24	-13	-39.24	V
5.711	-68.91	Pk	35.5	-28.2	7.9	-53.71	-13	-40.71	H
5.714	-69.61	Pk	35.5	-28.1	7.9	-54.31	-13	-41.31	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	04/03/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 25 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1860MHz									
3.72	-68.97	Pk	33.3	-30.1	9.9	-55.87	-13	-42.87	H
7.439	-70.8	Pk	36.1	-26.7	6.9	-54.5	-13	-41.5	H
3.72	-67.9	Pk	33.3	-30.1	9.8	-54.9	-13	-41.9	V
7.442	-70.11	Pk	36.1	-26.6	6.9	-53.71	-13	-40.71	V
5.579	-69.21	Pk	35.5	-28.5	8.3	-53.91	-13	-40.91	V
5.581	-68.87	Pk	35.5	-28.5	8.3	-53.57	-13	-40.57	H
Mid Channel, 1882.5MHz									
3.764	-67.14	Pk	33.3	-30.1	9.3	-54.64	-13	-41.64	H
7.532	-70.21	Pk	36.2	-26.3	7.5	-52.81	-13	-39.81	H
3.765	-67.12	Pk	33.3	-30.1	9.7	-54.22	-13	-41.22	V
7.529	-70.3	Pk	36.2	-26.3	7.3	-53.1	-13	-40.1	V
5.633	-68.58	Pk	35.5	-28.6	8.6	-53.08	-13	-40.08	V
5.634	-67.79	Pk	35.5	-28.6	8.6	-52.29	-13	-39.29	H
High Channel, 1905MHz									
3.81	-67.83	Pk	33.4	-30.1	9.3	-55.23	-13	-42.23	H
7.619	-69.2	Pk	36.4	-26.4	7.6	-51.6	-13	-38.6	H
3.815	-67.49	Pk	33.4	-30.1	9.7	-54.49	-13	-41.49	V
7.625	-70.12	Pk	36.4	-26.4	7.3	-52.82	-13	-39.82	V
5.713	-69.67	Pk	35.5	-28.1	7.9	-54.37	-13	-41.37	H
5.72	-70	Pk	35.5	-28.1	7.7	-54.9	-13	-41.9	V

Pk - Peak detector

9.4.4. LTE BAND 30

Project #:	12607346
Date:	04/10/2019
Test Engineer:	50822
Configuration:	EUT Only
Mode:	LTE 30 QPSK 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.611	-67.65	Pk	34.1	-29.5	9.4	-53.65	-40	-13.65	H
4.621	-67.82	Pk	34.1	-29.6	9.5	-53.82	-40	-13.82	V
6.917	-65.1	Pk	35.8	-27.3	6.4	-50.2	-40	-10.2	H
6.917	-68.06	Pk	35.8	-27.3	6.5	-53.06	-40	-13.06	V
9.231	-72.04	Pk	36.8	-23.5	7.9	-50.84	-40	-10.84	H
9.236	-71.79	Pk	36.8	-23.6	8	-50.59	-40	-10.59	V

Project #:	12607346
Date:	04/04/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 30 16QAM 10MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Mid Channel, 2310MHz									
4.613	-68.37	Pk	34.1	-29.6	9.5	-54.37	-40	-14.37	H
4.616	-68.41	Pk	34.1	-29.6	9.7	-54.21	-40	-14.21	V
6.928	-69.54	Pk	35.8	-27.3	6.9	-54.14	-40	-14.14	V
6.932	-69.67	Pk	35.8	-27.4	6.6	-54.67	-40	-14.67	H
9.216	-72.13	Pk	36.8	-23.7	8.1	-50.93	-40	-10.93	H
9.231	-77.42	Pk	36.8	-23.5	8	-56.12	-40	-16.12	V

Pk - Peak detector

9.4.5. LTE BAND 41

Company:	
Project #:	12607346
Date:	04/08/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 41 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2506MHz									
5.009	-69.27	Pk	34.6	-28.6	9.1	-54.17	-25	-29.17	H
7.517	-69.95	Pk	36.2	-26.2	7.5	-52.45	-25	-27.45	H
5.011	-68.5	Pk	34.6	-28.6	9	-53.5	-25	-28.5	V
7.521	-70.34	Pk	36.2	-26.3	7.4	-53.04	-25	-28.04	V
10.026	-72.35	Pk	37.5	-22.9	8.2	-49.55	-25	-24.55	V
10.028	-73.08	Pk	37.5	-22.9	8.2	-50.28	-25	-25.28	H
Mid Channel, 2593MHz									
5.185	-68.33	Pk	34.7	-28.9	8.6	-53.93	-25	-28.93	V
5.19	-69.04	Pk	34.7	-28.8	9	-54.14	-25	-29.14	H
7.776	-70.99	Pk	36.4	-26	7.9	-52.69	-25	-27.69	H
7.777	-70.36	Pk	36.4	-26	7.9	-52.06	-25	-27.06	V
10.371	-72.83	Pk	37.8	-22.4	7.9	-49.53	-25	-24.53	V
10.373	-73.07	Pk	37.8	-22.4	7.8	-49.87	-25	-24.87	H
High Channel, 2680MHz									
5.354	-69.24	Pk	35	-29	8.3	-54.94	-25	-29.94	H
8.041	-71.1	Pk	36.4	-25.3	8.2	-51.8	-25	-26.8	H
10.723	-72.6	Pk	37.8	-22.1	7.8	-49.1	-25	-24.1	H
5.368	-68.84	Pk	35.1	-29.2	8.8	-54.14	-25	-29.14	V
8.046	-70.7	Pk	36.4	-25.3	8	-51.6	-25	-26.6	V
10.721	-73.19	Pk	37.8	-22.1	7.8	-49.69	-25	-24.69	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	04/08/2019
Test Engineer:	12492
Configuration:	EUT Only
Mode:	LTE 41 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 2506MHz									
5.012	-68.62	Pk	34.6	-28.6	8.8	-53.82	-25	-28.82	H
7.491	-70.94	Pk	36.1	-26.5	7.7	-53.64	-25	-28.64	H
5.014	-69.59	Pk	34.6	-28.6	8.8	-54.79	-25	-29.79	V
7.491	-68.88	Pk	36.1	-26.5	7.6	-51.68	-25	-26.68	V
10.021	-72.81	Pk	37.5	-22.8	8.2	-49.91	-25	-24.91	H
10.022	-72.21	Pk	37.5	-22.8	8.2	-49.31	-25	-24.31	V
Mid Channel, 2593MHz									
5.19	-68.62	Pk	34.7	-28.8	8.6	-54.12	-25	-29.12	V
5.192	-68.9	Pk	34.7	-28.8	9	-54	-25	-29	H
7.778	-70.69	Pk	36.4	-25.9	7.9	-52.29	-25	-27.29	V
7.781	-70.51	Pk	36.4	-25.9	7.7	-52.31	-25	-27.31	H
10.376	-72.83	Pk	37.8	-22.3	7.9	-49.43	-25	-24.43	V
10.378	-72.57	Pk	37.8	-22.3	7.9	-49.17	-25	-24.17	H
High Channel, 2680MHz									
5.365	-68.71	Pk	35.1	-29.1	8.6	-54.11	-25	-29.11	H
8.038	-69.79	Pk	36.4	-25.4	8.2	-50.59	-25	-25.59	H
10.727	-72.99	Pk	37.9	-22	7.9	-49.19	-25	-24.19	H
5.369	-69.03	Pk	35.1	-29.2	8.9	-54.23	-25	-29.23	V
8.044	-71.06	Pk	36.4	-25.2	8	-51.86	-25	-26.86	V
10.723	-72.43	Pk	37.8	-22.1	7.8	-48.93	-25	-23.93	V

Pk - Peak detector

9.4.6. LTE BAND 48

Company:	
Project #:	12607346
Date:	6/27/2019
Test Engineer:	23567
Configuration:	EUT Only
Mode:	LTE 48 QPSK 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 3560MHz									
7.124	-74.42	Pk	36.1	-24.4	10.9	-51.82	-40	-11.82	V
7.134	-74.55	Pk	36.1	-24.3	10.6	-52.15	-40	-12.15	H
10.664	-76.37	Pk	37.9	-20.2	10.5	-48.17	-40	-8.17	H
10.678	-76.15	Pk	37.9	-20.1	10.8	-47.55	-40	-7.55	V
14.15	-75.3	Pk	38.6	-19.4	10.8	-45.30	-40	-5.30	V
14.223	-75.59	Pk	38.8	-19.3	11.2	-44.89	-40	-4.89	H
Mid Channel, 3625MHz									
7.242	-72.74	Pk	35.8	-24.1	11.1	-49.94	-40	-9.94	V
7.264	-73.01	Pk	35.8	-24.1	10.5	-50.81	-40	-10.81	H
10.88	-76.51	Pk	37.9	-19.4	10.8	-47.21	-40	-7.21	V
10.903	-76.06	Pk	38	-19.8	10.2	-47.66	-40	-7.66	H
14.474	-74.99	Pk	39.4	-19.4	10.9	-44.09	-40	-4.09	V
14.493	-75.29	Pk	39.4	-19.7	10.8	-44.79	-40	-4.79	H
High Channel, 3690MHz									
7.365	-74.41	Pk	35.7	-23.7	11.3	-51.11	-40	-11.11	V
7.384	-74.34	Pk	35.8	-23.5	10.9	-51.14	-40	-11.14	H
11.016	-75.45	Pk	37.9	-19.9	10.5	-46.95	-40	-6.95	V
11.054	-75.71	Pk	37.9	-19.8	10.6	-47.01	-40	-7.01	H
14.749	-75.09	Pk	39.7	-19.1	10.1	-44.39	-40	-4.39	H
14.774	-75.85	Pk	39.7	-18.5	10.5	-44.15	-40	-4.15	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	6/27/2019
Test Engineer:	23567
Configuration:	EUT Only
Mode:	LTE 48 16QAM 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 3560MHz									
7.117	-73.85	Pk	36.1	-24.3	10.5	-51.55	-40	-11.55	V
7.123	-74.04	Pk	36.2	-24.3	10.7	-51.44	-40	-11.44	H
10.717	-74.97	Pk	37.9	-20.4	10.6	-46.87	-40	-6.87	V
10.718	-75.61	Pk	37.9	-20.4	10.2	-47.91	-40	-7.91	H
14.205	-76.33	Pk	38.9	-19.3	11.2	-45.53	-40	-5.53	V
14.221	-75.56	Pk	38.8	-19.2	11.3	-44.66	-40	-4.66	H
Mid Channel, 3625MHz									
7.234	-74.34	Pk	36	-24	11.1	-51.24	-40	-11.24	V
7.252	-73.23	Pk	35.9	-24.1	10.7	-50.73	-40	-10.73	H
10.88	-76.68	Pk	37.9	-19.4	10.5	-47.68	-40	-7.68	H
10.897	-75.14	Pk	37.9	-19.7	10.3	-46.64	-40	-6.64	V
14.522	-74.73	Pk	39.5	-19.5	11	-43.73	-40	-3.73	H
14.567	-74.27	Pk	39.6	-19.5	9.9	-44.27	-40	-4.27	V
High Channel, 3690MHz									
7.395	-74.97	Pk	35.6	-23.5	10.8	-52.07	-40	-12.07	V
7.409	-75.48	Pk	35.7	-23.6	10.4	-52.98	-40	-12.98	H
11.094	-76.02	Pk	37.9	-19.9	10.3	-47.72	-40	-7.72	H
11.111	-75.82	Pk	37.9	-19.7	11	-46.62	-40	-6.62	V
14.597	-75	Pk	39.6	-19	10.7	-43.70	-40	-3.70	V
14.751	-75.67	Pk	39.7	-19.1	10.1	-44.97	-40	-4.97	H

Pk - Peak detector

9.4.7. LTE BAND 66

Company:	
Project #:	12607346
Date:	04/07/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 66 QPSK 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1720MHz									
2.369	-66.23	Pk	32.3	-31.7	10.7	-54.93	-13	-41.93	H
11.856	-73.96	Pk	39	-21.4	8.4	-47.96	-13	-34.96	H
4.517	-67.08	Pk	33.9	-29.2	10.3	-52.08	-13	-39.08	V
2.12	-42.35	Pk	31.2	-31.8	10.4	-32.55	-13	-19.55	H
2.12	-38.93	Pk	31.2	-31.8	9.8	-29.73	-13	-16.73	V
6.896	-68.75	Pk	35.8	-27.4	6.9	-53.45	-13	-40.45	V
Mid Channel, 1745MHz									
4.196	-67.59	Pk	33.6	-29.4	9.6	-53.79	-13	-40.79	H
8.333	-71.56	Pk	36.3	-25.5	7.9	-52.86	-13	-39.86	H
4.33	-67.51	Pk	33.7	-29.3	8.4	-54.71	-13	-41.71	V
2.145	-39.05	Pk	31.3	-31.8	10.9	-28.65	-13	-15.65	H
2.145	-36.82	Pk	31.3	-31.8	10	-27.32	-13	-14.32	V
9.786	-71.96	Pk	37.3	-22.9	8.2	-49.36	-13	-36.36	V
High Channel, 1770MHz									
4.578	-67.46	Pk	34	-29.2	10.1	-52.56	-13	-39.56	H
3.821	-66.58	Pk	33.4	-30	9.9	-53.28	-13	-40.28	V
2.17	-39.27	Pk	31.4	-31.9	9.4	-30.37	-13	-17.37	H
2.17	-38.02	Pk	31.4	-31.9	9.6	-28.92	-13	-15.92	V
7.077	-68.79	Pk	36	-26.5	7.1	-52.19	-13	-39.19	H
10.573	-72.16	Pk	37.8	-22.1	7.8	-48.66	-13	-35.66	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	04/07/2019
Test Engineer:	31300
Configuration:	EUT Only
Mode:	LTE 66 16QAM 20MHz
Chamber #:	Chamber B

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 1720MHz									
3.794	-67.58	Pk	33.4	-30.2	10.2	-54.18	-13	-41.18	H
4.583	-67.21	Pk	34.1	-29.3	10	-52.41	-13	-39.41	H
7.653	-69.22	Pk	36.4	-26	7.5	-51.32	-13	-38.32	V
9.086	-71.92	Pk	36.8	-24	8.3	-50.82	-13	-37.82	V
2.12	-41.58	Pk	31.2	-31.8	10.4	-31.78	-13	-18.78	H
2.12	-37.95	Pk	31.2	-31.8	9.8	-28.75	-13	-15.75	V
Mid Channel, 1745MHz									
4.007	-66.56	Pk	33.3	-29.8	9.8	-53.26	-13	-40.26	H
5.145	-68.43	Pk	34.6	-28.7	9	-53.53	-13	-40.53	H
2.718	-66.58	Pk	32.3	-31.1	10	-55.38	-13	-42.38	V
2.145	-38.84	Pk	31.3	-31.8	10.9	-28.44	-13	-15.44	H
2.145	-37.55	Pk	31.3	-31.8	9.9	-28.15	-13	-15.15	V
13.741	-73.3	Pk	39.2	-21.1	10.3	-44.9	-13	-31.9	V
High Channel, 1770MHz									
8.424	-71.09	Pk	36.2	-24.8	8.4	-51.29	-13	-38.29	V
2.17	-39.19	Pk	31.4	-31.9	9.4	-30.29	-13	-17.29	H
2.17	-37.11	Pk	31.4	-31.9	9.6	-28.01	-13	-15.01	V
2.465	-65.57	Pk	32.6	-31.5	8.8	-55.67	-13	-42.67	V
2.573	-66.09	Pk	32.7	-31.4	10.5	-54.29	-13	-41.29	H
2.992	-66.7	Pk	32.7	-30.9	10.2	-54.7	-13	-41.7	H

Pk - Peak detector

9.5. FIELD STRENGTH OF SPURIOUS RADIATION, ANT 6

9.5.1. LTE BAND 48

Company:	
Project #:	12607346
Date:	6/27/2019
Test Engineer:	23567
Configuration:	EUT Only
Mode:	LTE 48 QPSK 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 3560MHz									
7.074	-74.22	Pk	36	-24.1	11	-51.32	-40	-11.32	V
7.114	-72.93	Pk	36.1	-24.3	10.2	-50.93	-40	-10.93	H
10.625	-76.66	Pk	37.9	-19.7	10.4	-48.06	-40	-8.06	V
10.66	-75.63	Pk	37.9	-20.1	10.5	-47.33	-40	-7.33	H
14.116	-75.41	Pk	38.6	-19.1	11.4	-44.51	-40	-4.51	V
14.217	-75.31	Pk	38.9	-19.2	11.4	-44.21	-40	-4.21	H
Mid Channel, 3625MHz									
7.238	-73.65	Pk	35.9	-24.1	11	-50.85	-40	-10.85	V
7.248	-74.4	Pk	35.9	-24.1	10.6	-52.00	-40	-12.00	H
10.79	-75.92	Pk	37.9	-19.9	11.2	-46.72	-40	-6.72	V
10.871	-76.13	Pk	37.9	-19.5	10.7	-47.03	-40	-7.03	H
14.466	-75.41	Pk	39.3	-19.5	10.9	-44.71	-40	-4.71	V
14.516	-76.15	Pk	39.4	-19.5	10.9	-45.35	-40	-5.35	H
High Channel, 3690MHz									
7.352	-74.58	Pk	35.7	-23.7	10.9	-51.68	-40	-11.68	V
7.376	-72.95	Pk	35.7	-23.5	11	-49.75	-40	-9.75	H
11.022	-76.21	Pk	37.9	-19.9	10.6	-47.61	-40	-7.61	V
11.054	-74.92	Pk	37.9	-19.8	10.6	-46.22	-40	-6.22	H
14.739	-75.17	Pk	39.7	-19.2	10.2	-44.47	-40	-4.47	H
14.784	-75.34	Pk	39.7	-18.5	10.9	-43.24	-40	-3.24	V

Pk - Peak detector

Company:	
Project #:	12607346
Date:	6/27/2019
Test Engineer:	23567
Configuration:	EUT Only
Mode:	LTE 48 16QAM 20MHz
Chamber #:	Chamber A

Frequency (GHz)	Meter Reading (dBm)	Det	AF T344 (dB/m)	Amp/Cbl (dB)	Amp/Cbl (dB)	Corrected Reading (dBm)	Harmonics limit	Margin (dB)	Polarity
Low Channel, 3560MHz									
7.104	-73.29	Pk	36	-24.2	10.3	-51.19	-40	-11.19	V
7.114	-74.7	Pk	36.1	-24.3	10.2	-52.70	-40	-12.70	H
10.631	-76.21	Pk	37.9	-19.7	10.4	-47.61	-40	-7.61	V
10.661	-76.66	Pk	37.9	-20.1	10.5	-48.36	-40	-8.36	H
14.195	-75.26	Pk	38.8	-19.3	11	-44.76	-40	-4.76	V
14.218	-75.17	Pk	38.9	-19.2	11.4	-44.07	-40	-4.07	H
Mid Channel, 3625MHz									
7.23	-74.23	Pk	35.9	-24	11	-51.33	-40	-11.33	V
7.248	-73.81	Pk	35.9	-24.1	10.6	-51.41	-40	-11.41	H
10.829	-76.19	Pk	38	-19.3	10.3	-47.19	-40	-7.19	V
10.863	-75.22	Pk	38	-19.6	11	-45.82	-40	-5.82	H
14.49	-75.46	Pk	39.4	-19.6	10.8	-44.86	-40	-4.86	H
14.512	-75.46	Pk	39.4	-19.6	10.6	-45.06	-40	-5.06	V
High Channel, 3690MHz									
7.355	-73.79	Pk	35.7	-23.7	11	-50.79	-40	-10.79	V
7.361	-74.09	Pk	35.8	-23.7	10.8	-51.19	-40	-11.19	H
11.052	-76.19	Pk	37.9	-19.8	10.9	-47.19	-40	-7.19	V
11.055	-75.14	Pk	37.9	-19.8	10.6	-46.44	-40	-6.44	H
14.766	-76.84	Pk	39.7	-18.6	10.6	-45.14	-40	-5.14	H
14.766	-76.07	Pk	39.7	-18.6	10.4	-44.57	-40	-4.57	V

Pk - Peak detector

END OF REPORT

10. SETUP PHOTOS

Please see setup photo report 12607346-EP1V1