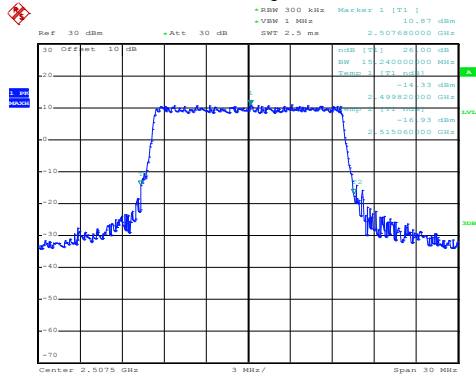


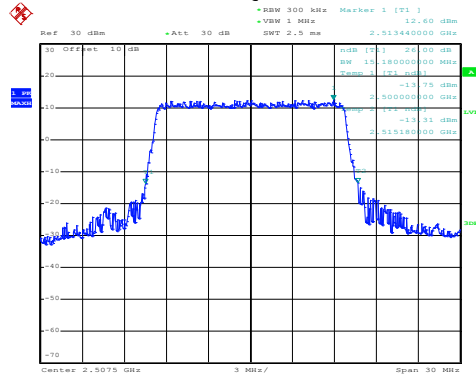
LTE Band 7: -26dBc bandwidth
BW: 15MHz

16QAM



Date: 26.APR.2020 10:18:50

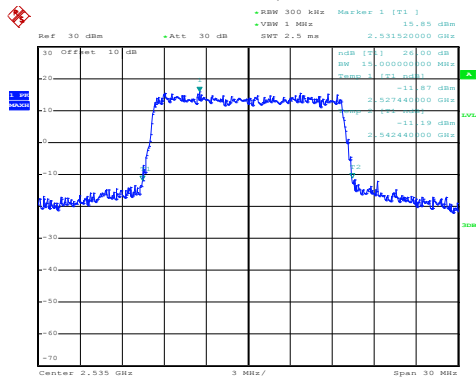
QPSK



Date: 26.APR.2020 10:18:38

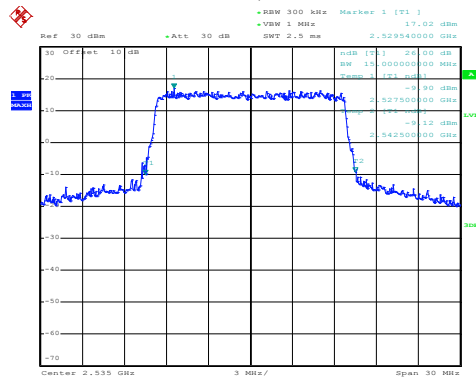
Lowest channel

16QAM



Date: 26.APR.2020 10:19:33

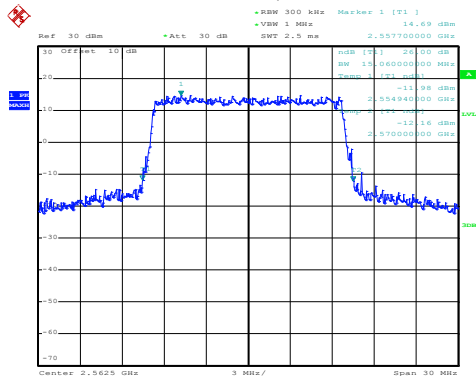
QPSK



Date: 26.APR.2020 10:19:28

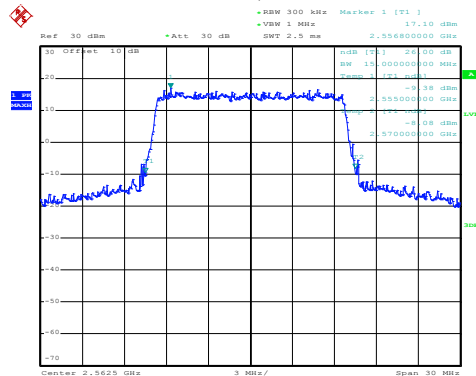
Middle channel

16QAM



Date: 26.APR.2020 10:19:53

QPSK

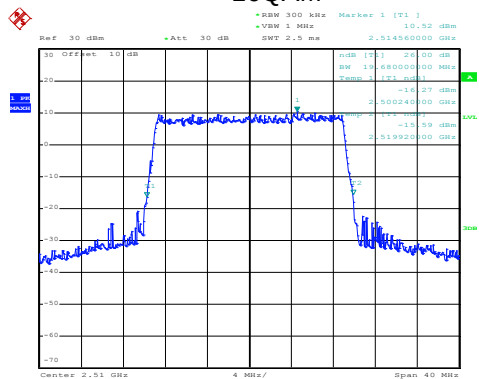


Date: 26.APR.2020 10:19:49

Highest channel

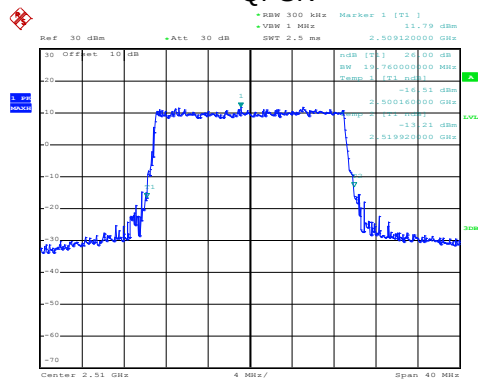
LTE Band 7: -26dBc bandwidth
BW: 20MHz

16QAM



Date: 26.APR.2020 10:18:08

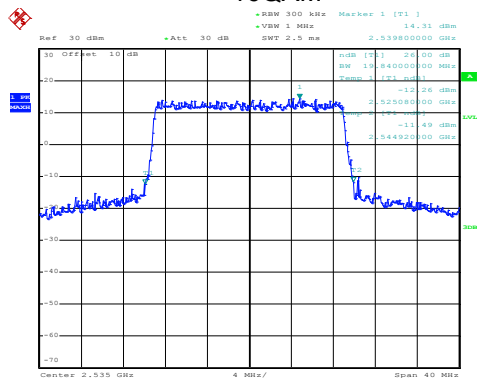
QPSK



Date: 26.APR.2020 10:18:01

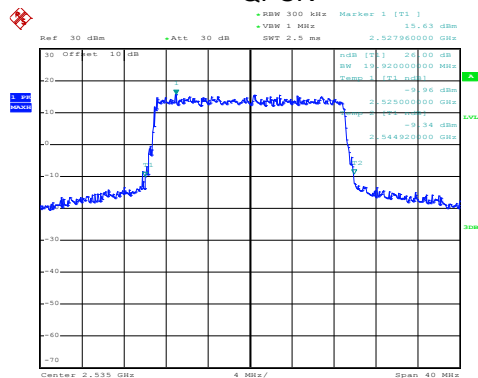
Lowest channel

16QAM



Date: 26.APR.2020 10:16:49

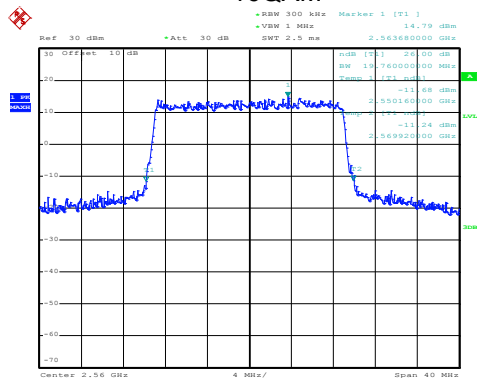
QPSK



Date: 26.APR.2020 10:16:44

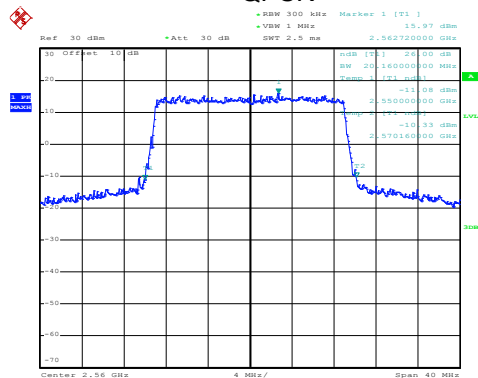
Middle channel

16QAM



Date: 26.APR.2020 10:16:31

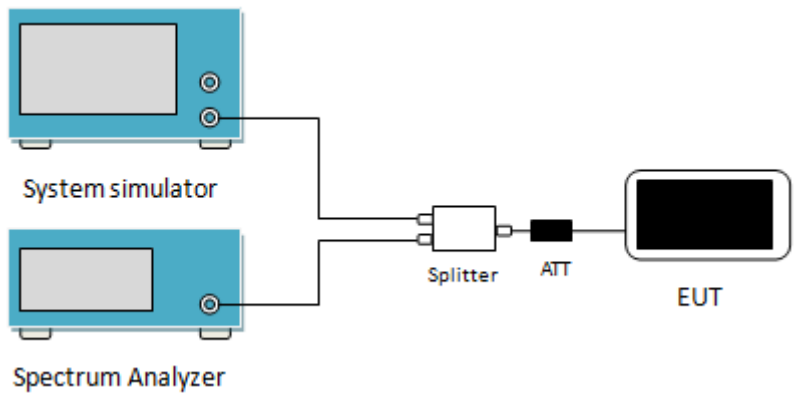
QPSK



Date: 26.APR.2020 10:16:25

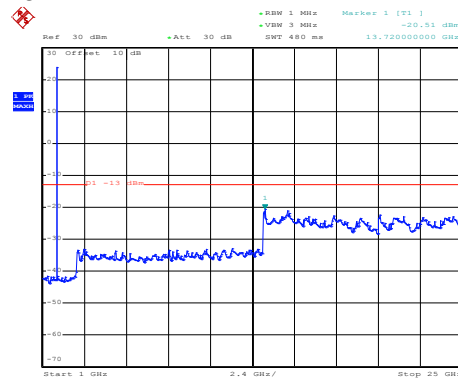
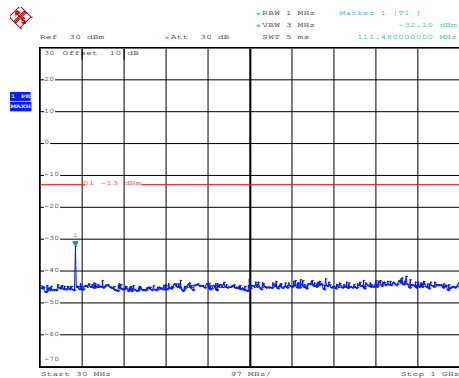
Highest channel

6.4 Out of band emission at antenna terminals

Test Requirement:	Part 22.917(a), Part 24.238 (a), part 27.53(h), Part 27.53(m)
Limit:	LTE Band 2 & 4 & 5: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB (-13 dBm). LTE Band 7: For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log(P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log(P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log(P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log(P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log(P)$ dB at or below 2490.5 MHz.
Test Setup:	 The diagram illustrates the test setup. On the left, there are two blue rectangular units: the top one is labeled 'System simulator' and the bottom one is labeled 'Spectrum Analyzer'. Both have a single output port. These two ports are connected to a single input port of a white rectangular unit labeled 'Splitter'. The 'Splitter' has two output ports. One output port is connected to a black rectangular unit labeled 'ATT' (Attenuator). The other output port of the 'Splitter' is connected to the input port of a black rectangular unit labeled 'EUT' (Equipment Under Test).
Test Procedure:	1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 For the out of band: For Band 5 & 12 & 17 set the RBW=100 kHz, VBW=300 kHz and for Band 2 & 4 & 7 set the RBW=1 MHz, VBW=3 MHz when below 1 GHz, RBW =1 MHz, VBW=3 MHz when above 1 GHz, Start=30MHz, Stop= 10th harmonic. 3 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed
Remark:	Pre-scan all RB Size and offset, and found the RB Size and offset of worst case, so the report shows only the worst case test data.

Test plots as follows (Conducted spurious emission) (worst case):
LTE Band 2 part:

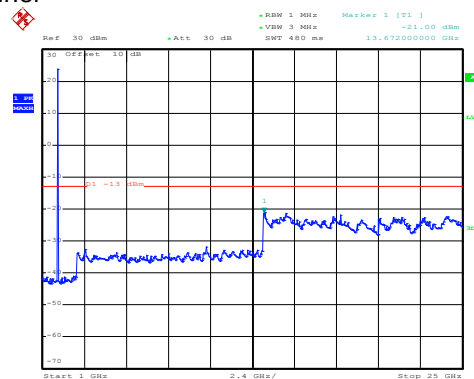
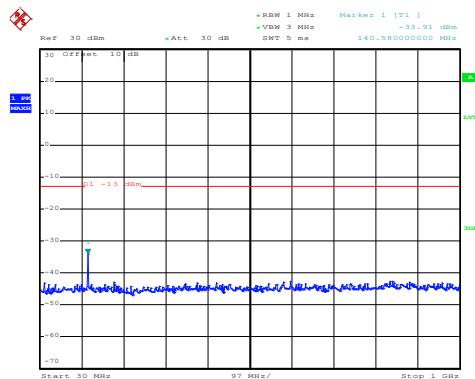
LTE Band 2: 16 QAM & RB Size 1
BW: 1.4MHz
Lowest channel



30MHz~1GHz

1GHz~25GHz

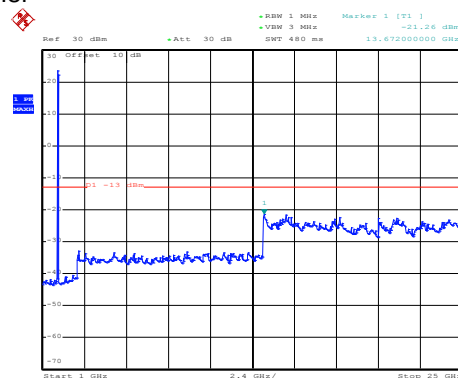
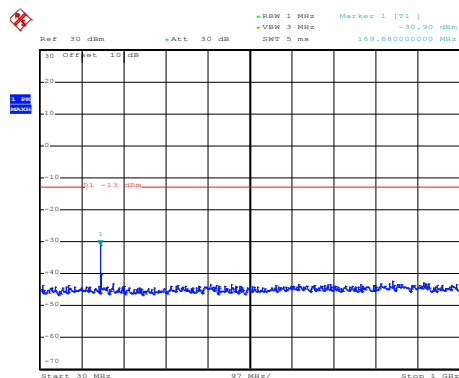
Middle channel



30MHz~1GHz

1GHz~25GHz

High channel

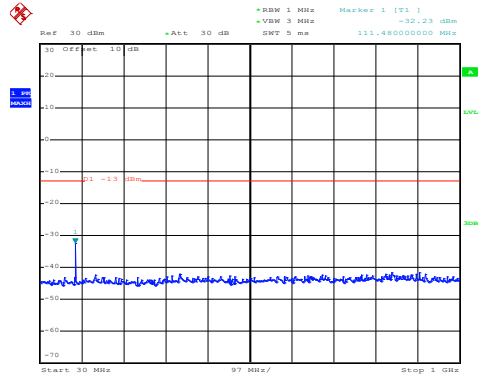


30MHz~1GHz

1GHz~25GHz

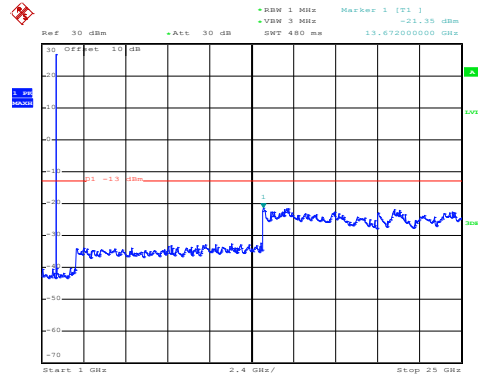
LTE Band 2: QPSK & RB Size 1
BW: 1.4MHz

Lowest channel



Date: 26.APR.2020 10:08:23

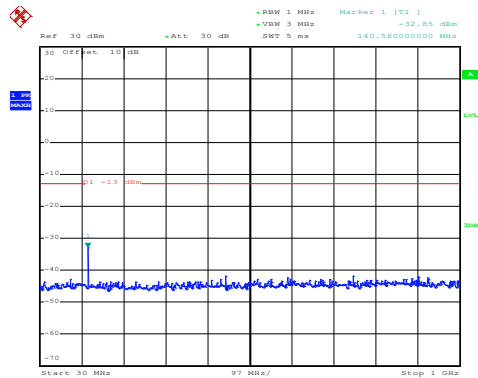
30MHz~1GHz



Date: 26.APR.2020 10:10:30

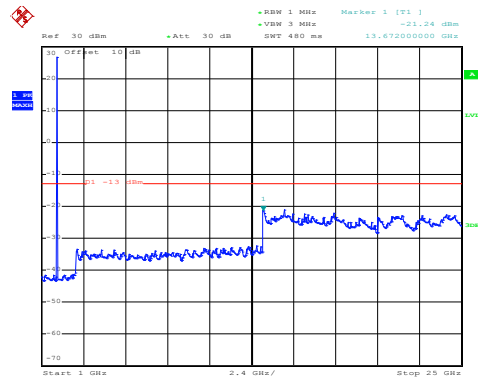
1GHz~25GHz

Middle channel



Date: 26.APR.2020 10:08:42

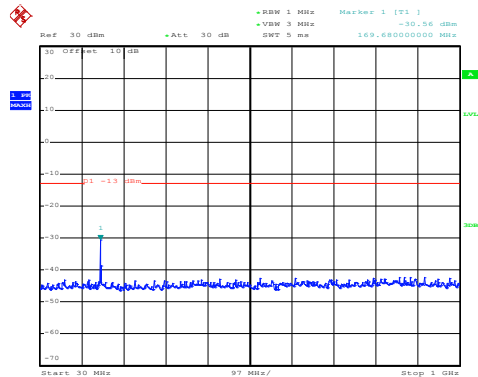
30MHz~1GHz



Date: 26.APR.2020 10:10:01

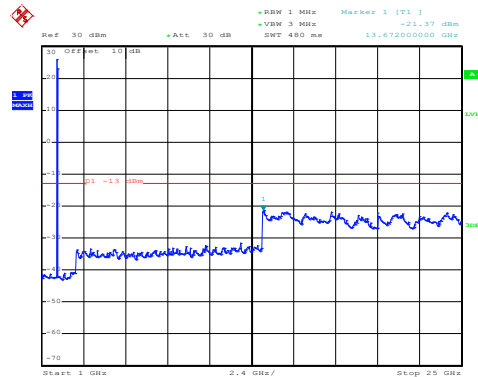
1GHz~25GHz

High channel



Date: 26.APR.2020 10:09:01

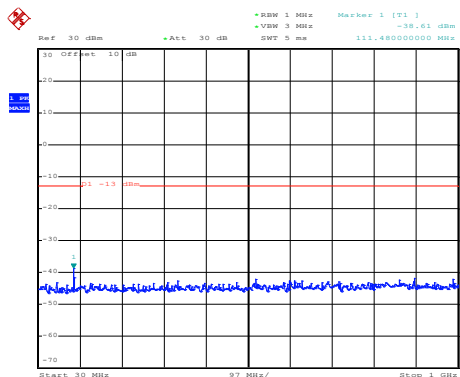
30MHz~1GHz



Date: 26.APR.2020 10:09:40

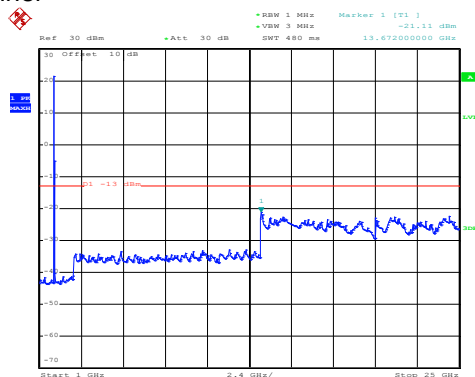
1GHz~25GHz

LTE Band 2: 16 QAM & RB Size 1
BW: 20MHz
Lowest channel



Date: 26.APR.2020 10:06:06

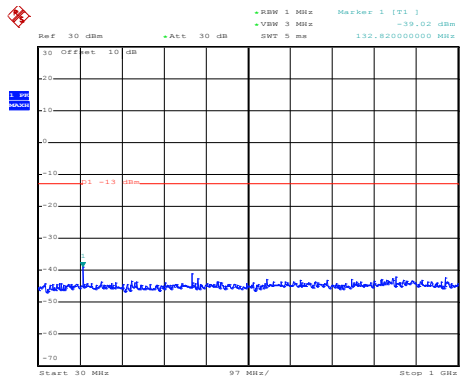
30MHz~1GHz



Date: 26.APR.2020 10:04:10

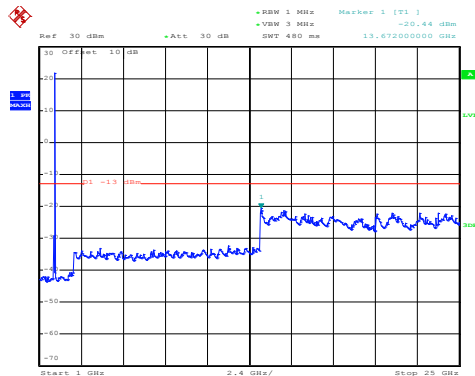
1GHz~25GHz

Middle channel



Date: 26.APR.2020 10:05:46

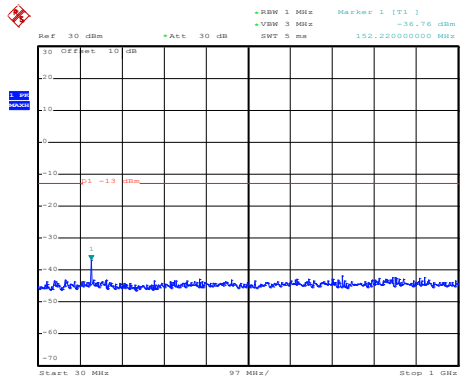
30MHz~1GHz



Date: 26.APR.2020 10:04:36

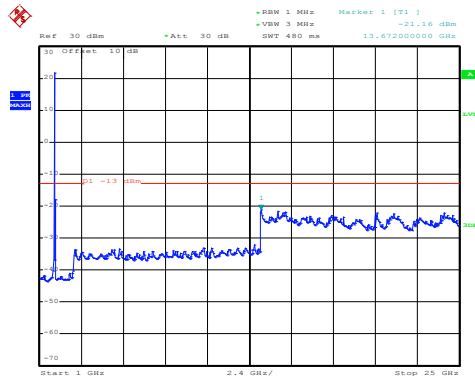
1GHz~25GHz

High channel



Date: 26.APR.2020 10:05:30

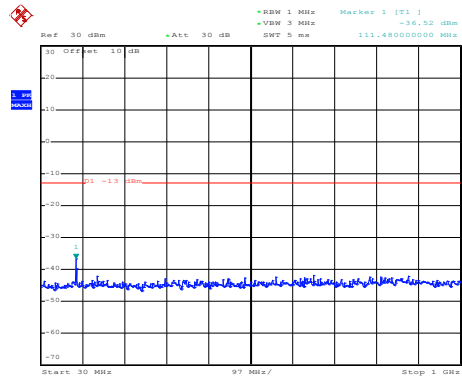
30MHz~1GHz



Date: 26.APR.2020 10:05:07

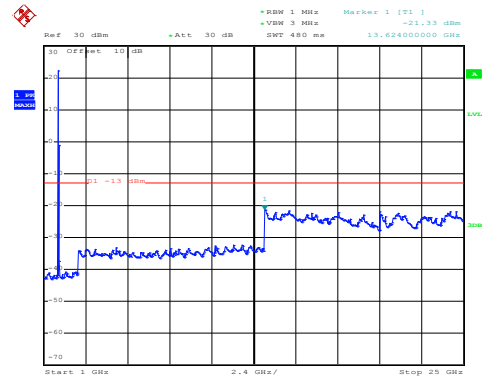
1GHz~25GHz

LTE Band 2: QPSK & RB Size 1
BW: 20MHz
Lowest channel



Date: 26.APR.2020 10:05:59

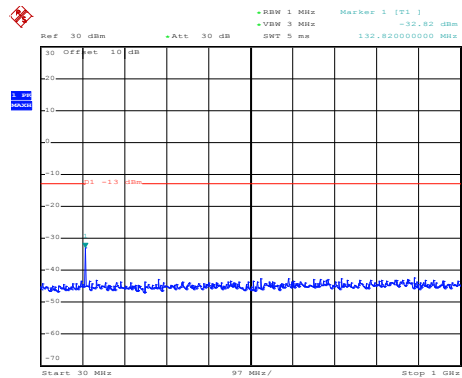
30MHz~1GHz



Date: 26.APR.2020 10:04:03

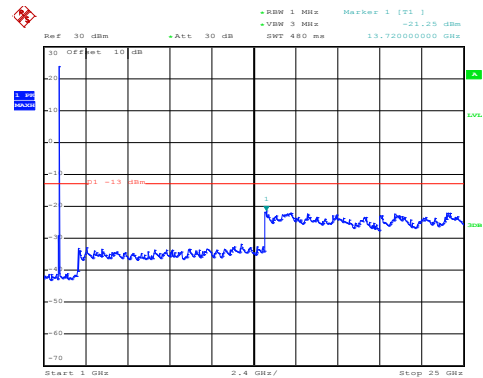
1GHz~25GHz

Middle channel



Date: 26.APR.2020 10:05:39

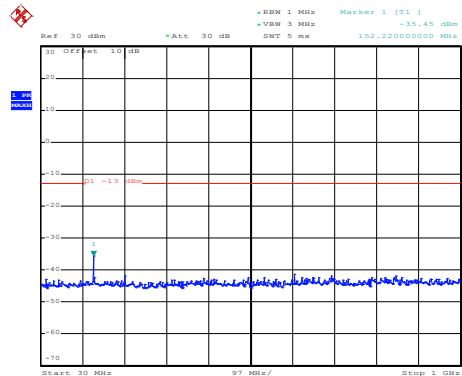
30MHz~1GHz



Date: 26.APR.2020 10:04:26

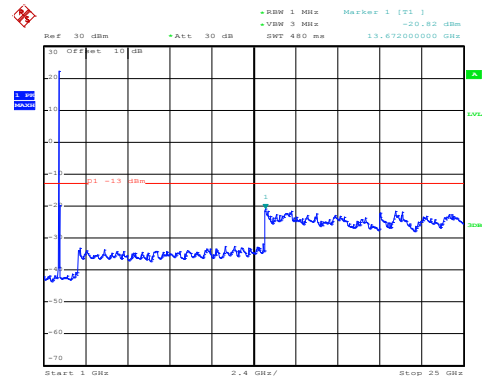
1GHz~25GHz

High channel



Date: 26.APR.2020 10:05:23

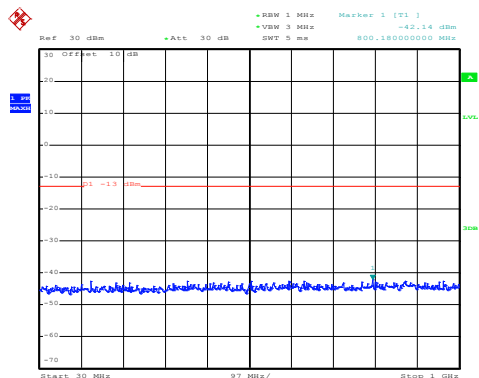
30MHz~1GHz



Date: 26.APR.2020 10:04:58

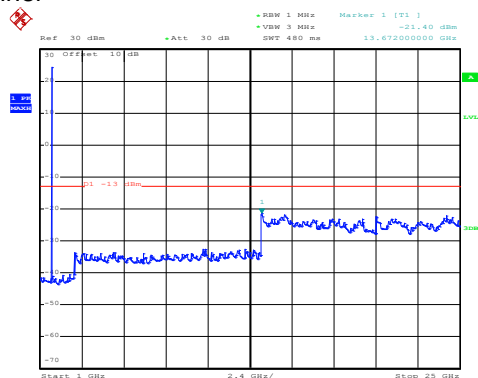
1GHz~25GHz

LTE Band 4 part:

LTE Band 4: 16 QAM & RB Size 1
BW: 1.4MHz
Lowest channel

Date: 26.APR.2020 10:00:34

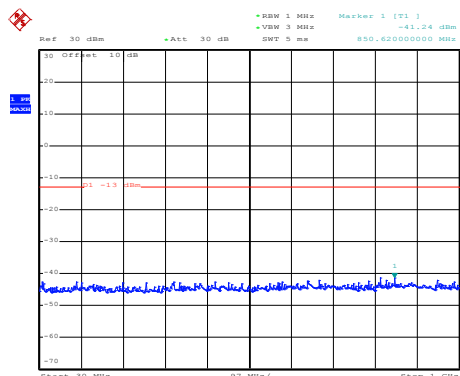
30MHz~1GHz



Date: 26.APR.2020 09:58:26

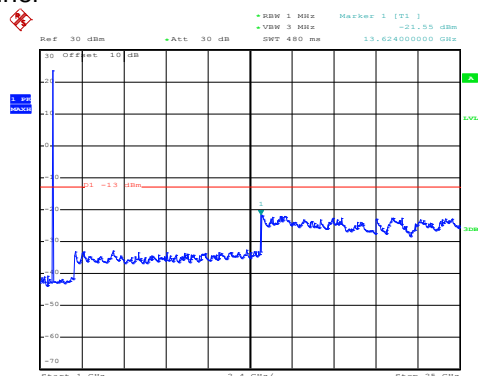
1GHz~25GHz

Middle channel



Date: 26.APR.2020 10:00:15

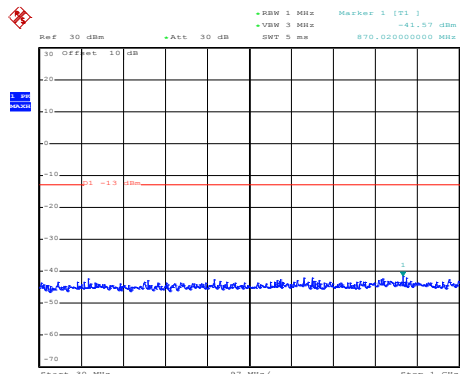
30MHz~1GHz



Date: 26.APR.2020 09:58:52

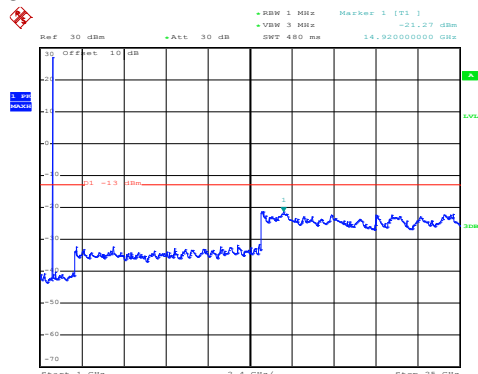
1GHz~25GHz

High channel



Date: 26.APR.2020 09:59:55

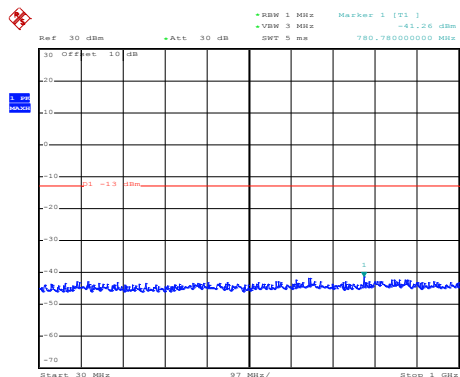
30MHz~1GHz



Date: 26.APR.2020 09:59:28

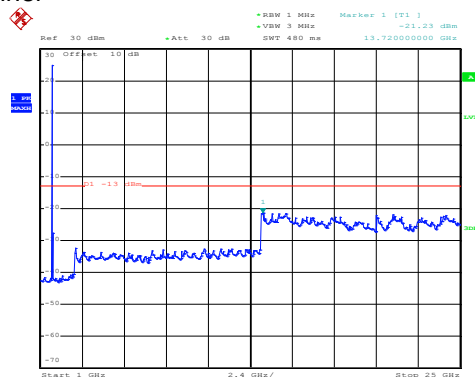
1GHz~25GHz

LTE Band 4: QPSK & RB Size 1

BW: 1.4MHz
Lowest channel

Date: 26.APR.2020 10:00:26

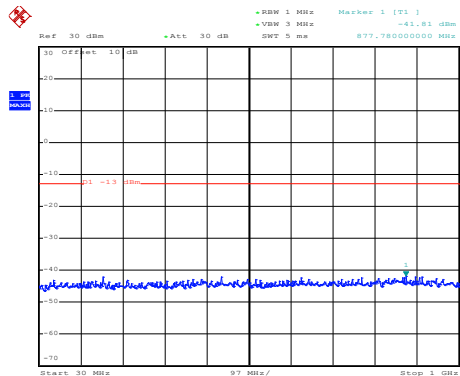
30MHz~1GHz



Date: 26.APR.2020 09:58:16

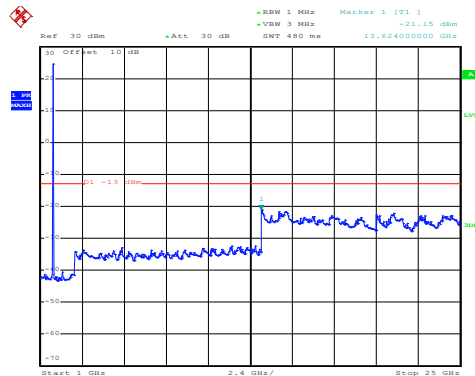
1GHz~25GHz

Middle channel



Date: 26.APR.2020 10:00:07

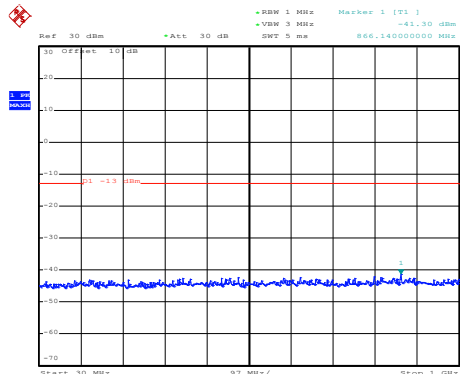
30MHz~1GHz



Date: 26.APR.2020 09:58:42

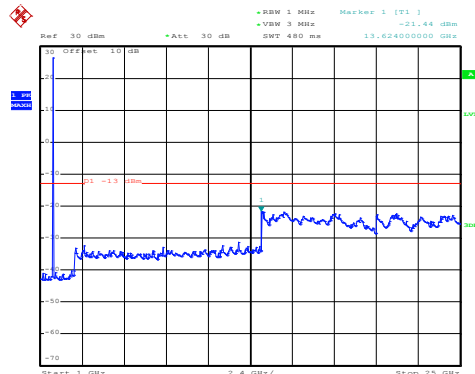
1GHz~25GHz

High channel



Date: 26.APR.2020 09:59:47

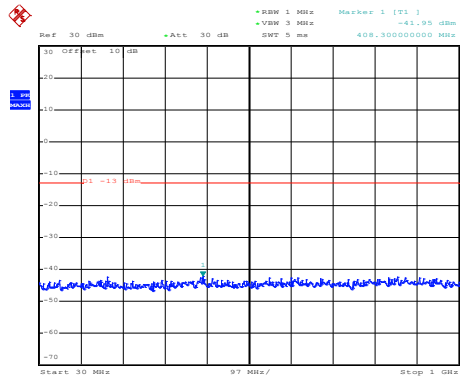
30MHz~1GHz



Date: 26.APR.2020 09:59:09

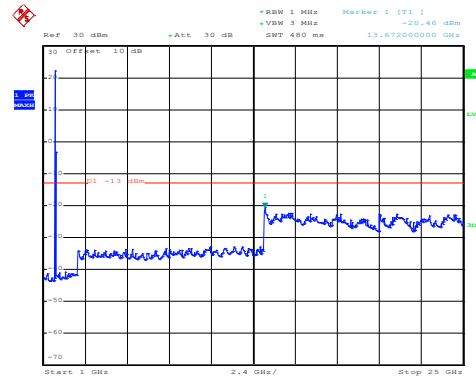
1GHz~25GHz

LTE Band 4: 16 QAM & RB Size 1
BW: 20MHz
Lowest channel



Date: 26.APR.2020 10:01:16

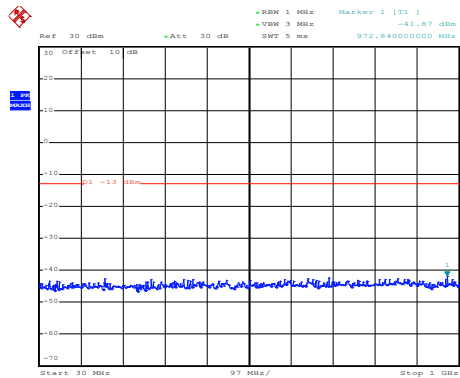
30MHz~1GHz



Date: 26.APR.2020 10:03:31

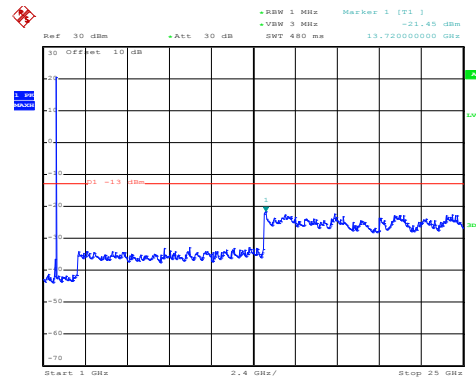
1GHz~25GHz

Middle channel



Date: 26.APR.2020 10:01:33

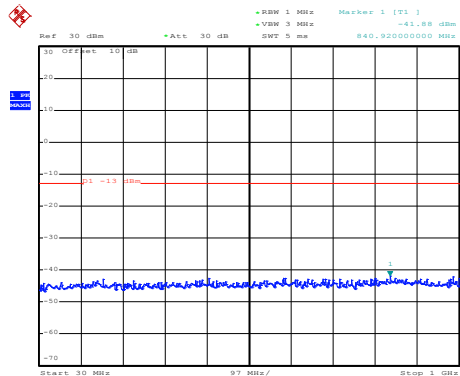
30MHz~1GHz



Date: 26.APR.2020 10:02:58

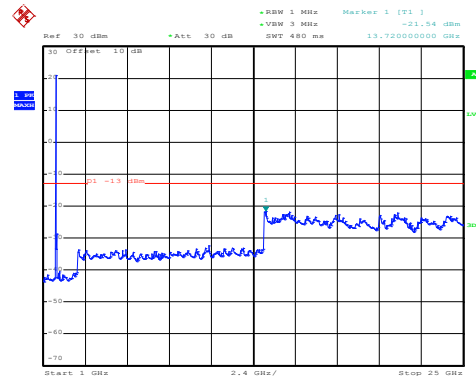
1GHz~25GHz

High channel



Date: 26.APR.2020 10:01:56

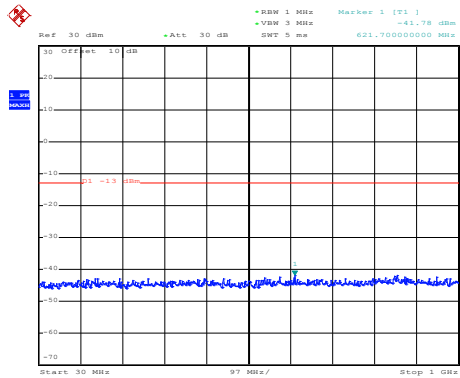
30MHz~1GHz



Date: 26.APR.2020 10:02:40

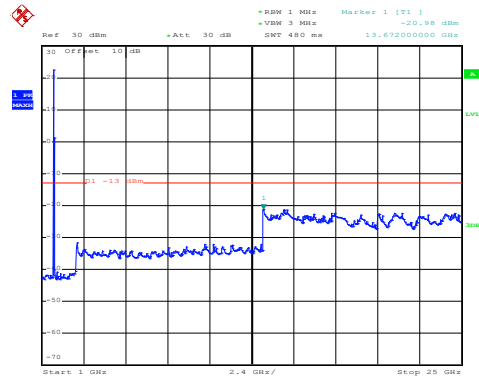
1GHz~25GHz

LTE Band 4: QPSK & RB Size 1
BW: 20MHz
Lowest channel



Date: 26.APR.2020 10:01:08

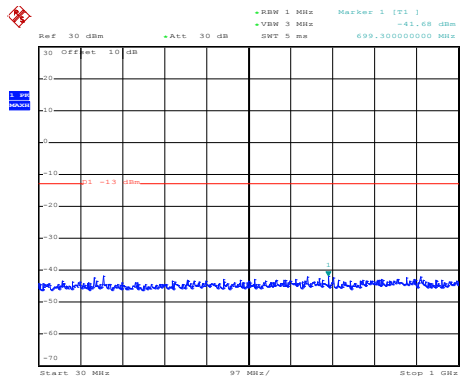
30MHz~1GHz



Date: 26.APR.2020 10:03:22

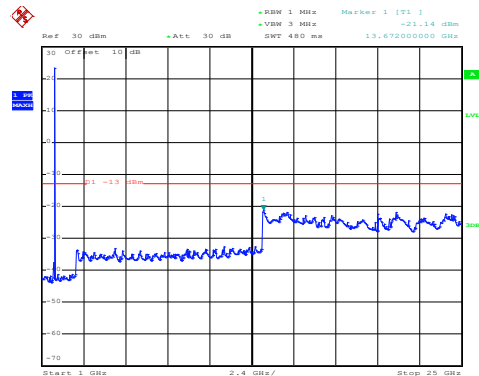
1GHz~25GHz

Middle channel



Date: 26.APR.2020 10:01:25

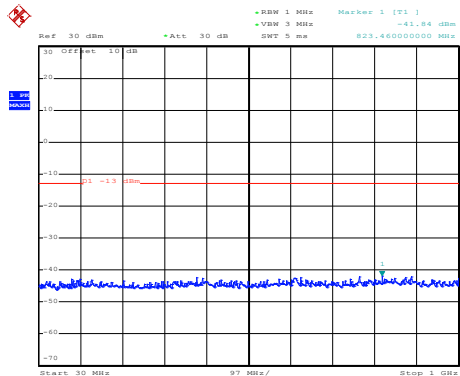
30MHz~1GHz



Date: 26.APR.2020 10:02:51

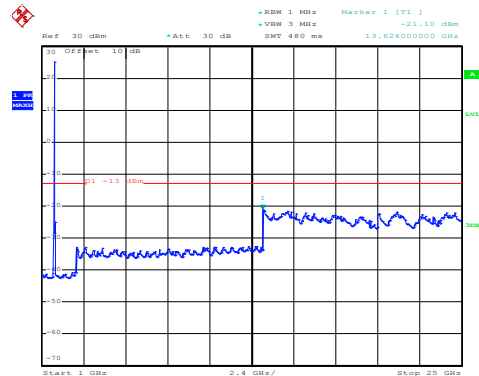
1GHz~25GHz

High channel



Date: 26.APR.2020 10:01:47

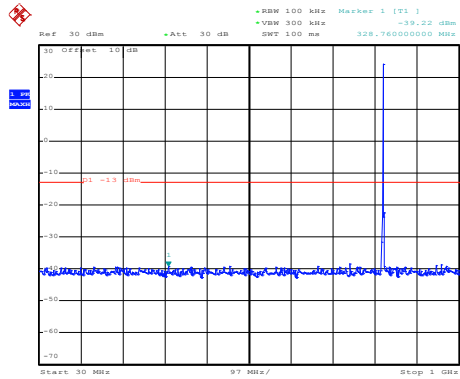
30MHz~1GHz



Date: 26.APR.2020 10:02:31

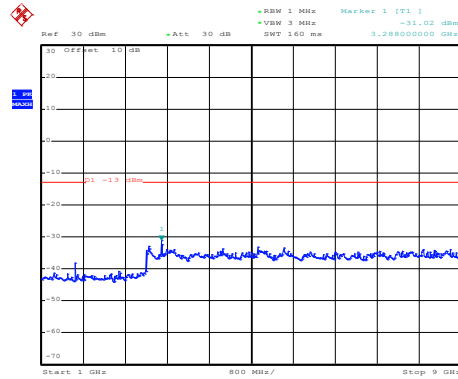
1GHz~25GHz

LTE Band 5 part:

LTE Band 5: 16 QAM & RB Size 1
BW: 1.4MHz
Lowest channel

Date: 26.APR.2020 09:53:38

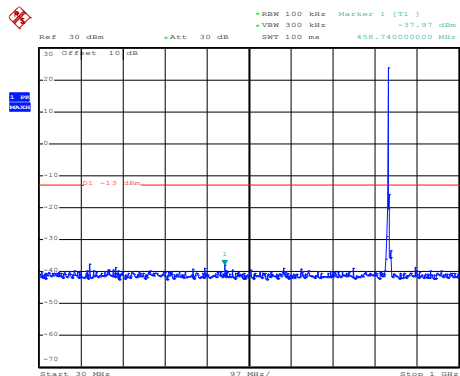
30MHz~1GHz



Date: 26.APR.2020 09:51:14

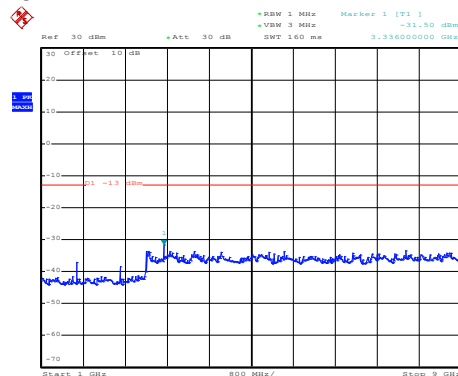
1GHz~9GHz

Middle channel



Date: 26.APR.2020 09:53:09

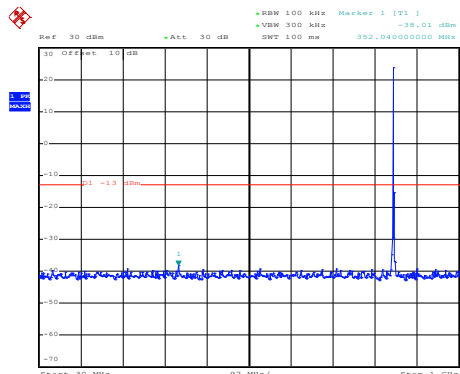
30MHz~1GHz



Date: 26.APR.2020 09:51:33

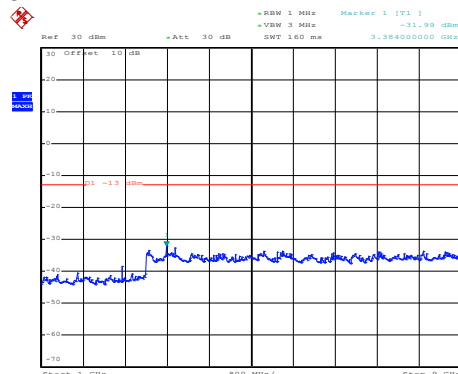
1GHz~9GHz

High channel



Date: 26.APR.2020 09:52:41

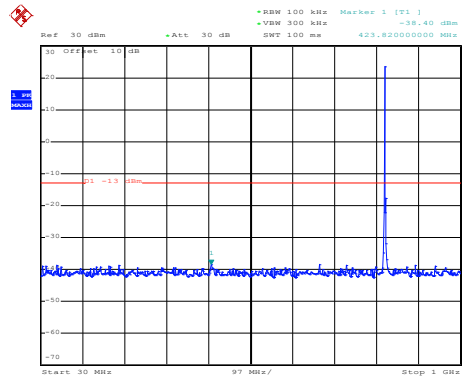
30MHz~1GHz



Date: 26.APR.2020 09:51:56

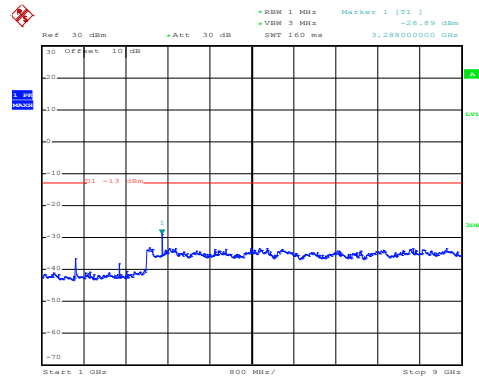
1GHz~9GHz

LTE Band 5: QPSK & RB Size 1
BW: 1.4MHz
Lowest channel



Date: 26.APR.2020 09:53:25

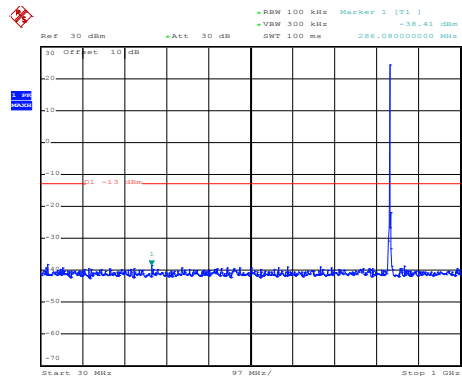
30MHz~1GHz



Date: 26.APR.2020 09:51:05

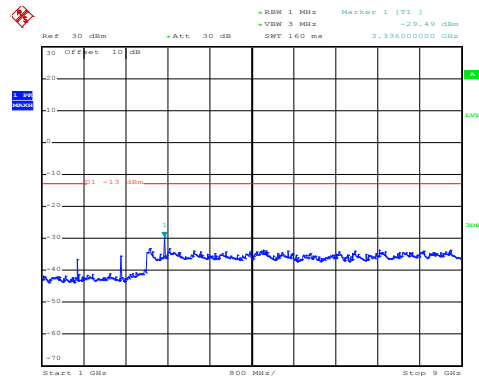
1GHz~9GHz

Middle channel



Date: 26.APR.2020 09:52:57

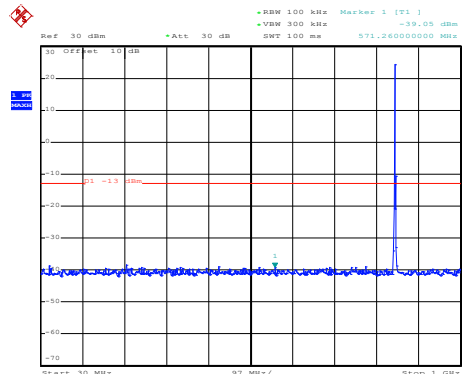
30MHz~1GHz



Date: 26.APR.2020 09:51:27

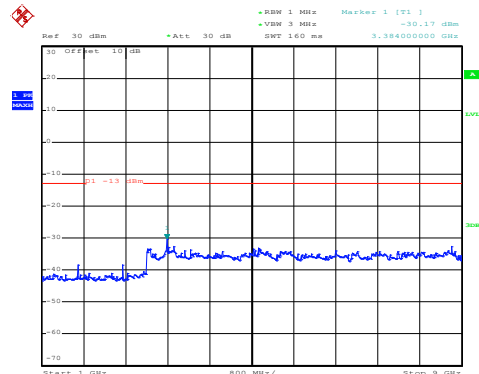
1GHz~9GHz

High channel



Date: 26.APR.2020 09:52:32

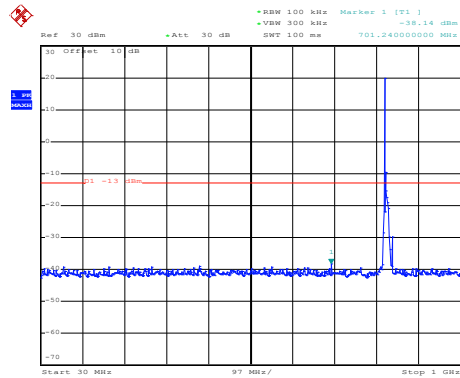
30MHz~1GHz



Date: 26.APR.2020 09:51:49

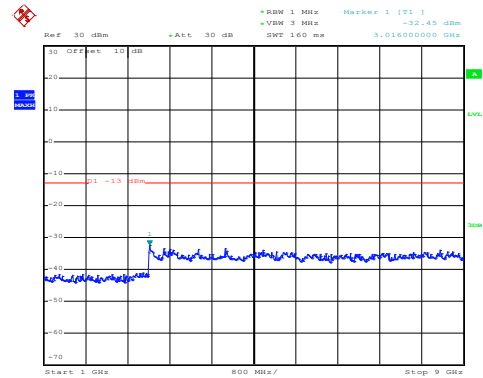
1GHz~9GHz

LTE Band 5: 16 QAM & RB Size 1
BW: 10MHz
Lowest channel



Date: 26.APR.2020 09:54:42

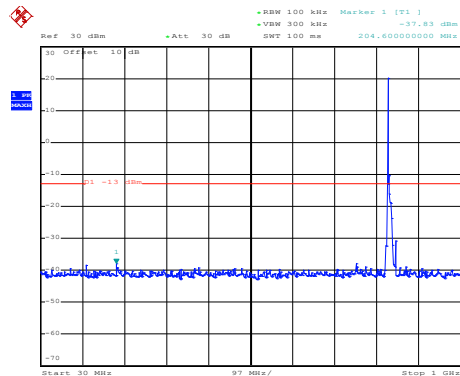
30MHz~1GHz



Date: 26.APR.2020 09:56:54

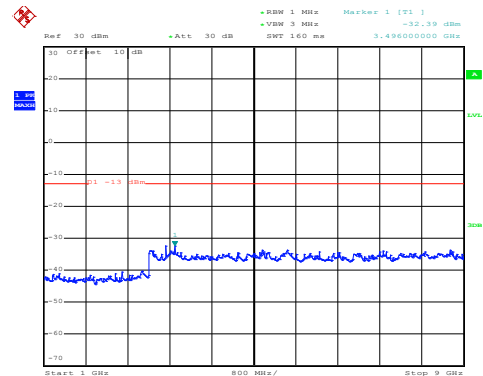
1GHz~9GHz

Middle channel



Date: 26.APR.2020 09:55:08

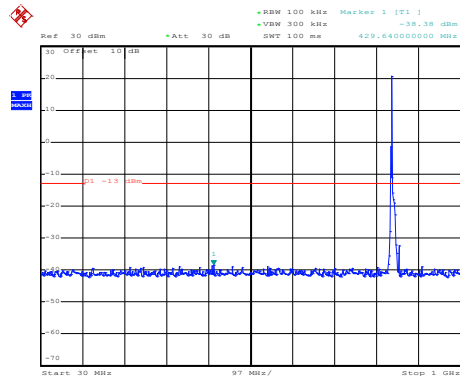
30MHz~1GHz



Date: 26.APR.2020 09:56:35

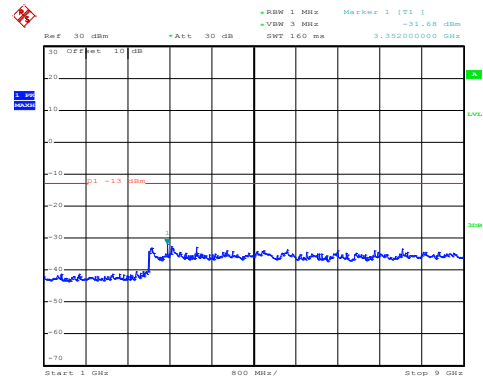
1GHz~9GHz

High channel



Date: 26.APR.2020 09:55:40

30MHz~1GHz



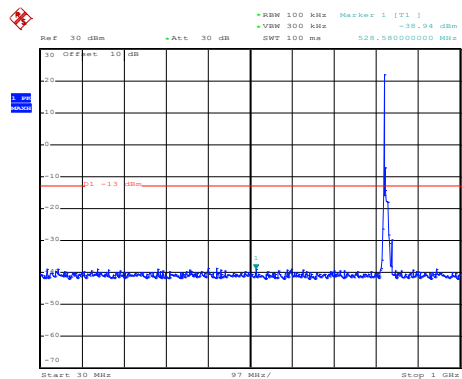
Date: 26.APR.2020 09:56:15

1GHz~9GHz

LTE Band 5: QPSK & RB Size 1

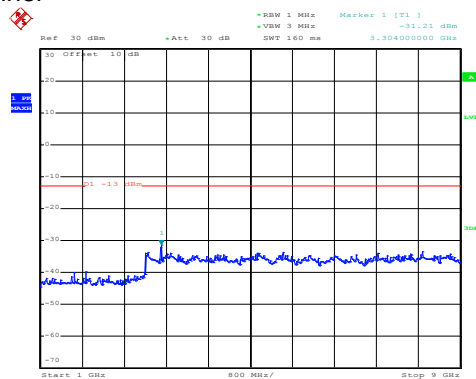
BW: 10MHz

Lowest channel



Date: 26.APR.2020 09:54:28

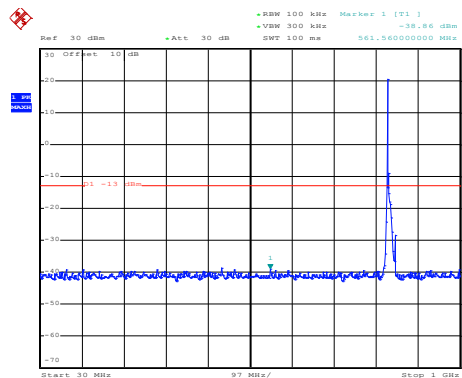
30MHz~1GHz



Date: 26.APR.2020 09:56:47

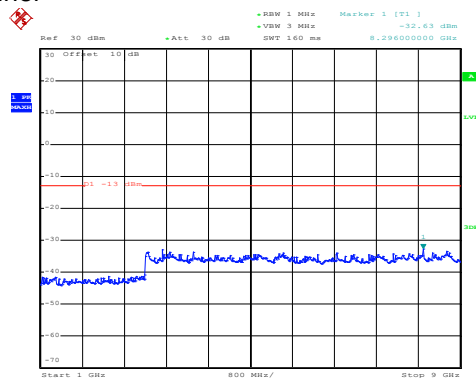
1GHz~9GHz

Middle channel



Date: 26.APR.2020 09:54:56

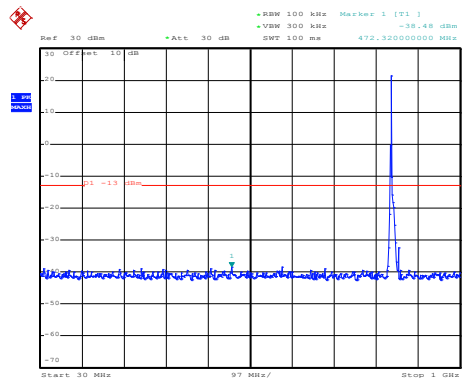
30MHz~1GHz



Date: 26.APR.2020 09:56:27

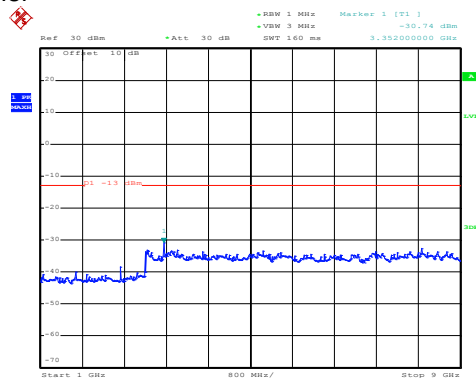
1GHz~9GHz

High channel



Date: 26.APR.2020 09:55:25

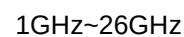
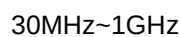
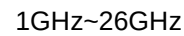
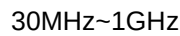
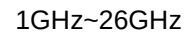
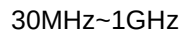
30MHz~1GHz



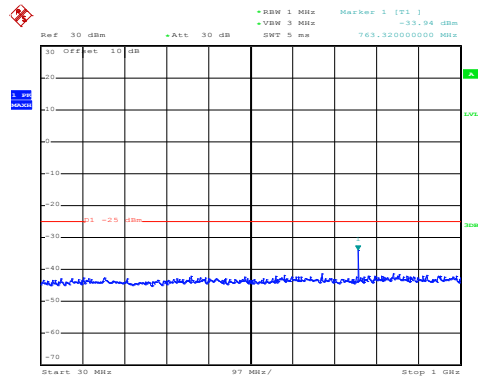
Date: 26.APR.2020 09:56:05

1GHz~9GHz

LTE Band 7: 16 QAM & RB Size 1
BW: 5MHz
Lowest channel

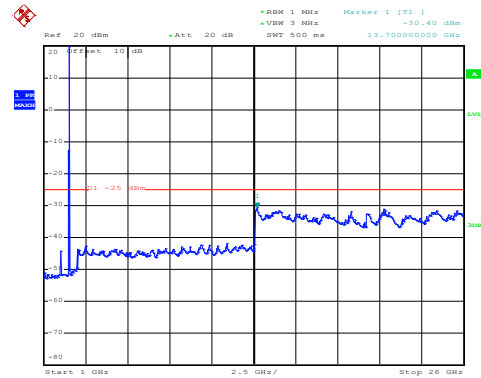


LTE Band 7: QPSK & RB Size 1
BW: 5MHz
Lowest channel



Date: 26.APR.2020 09:45:44

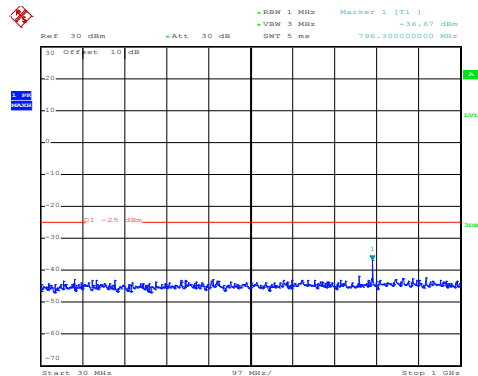
30MHz~1GHz



Date: 26.APR.2020 09:48:54

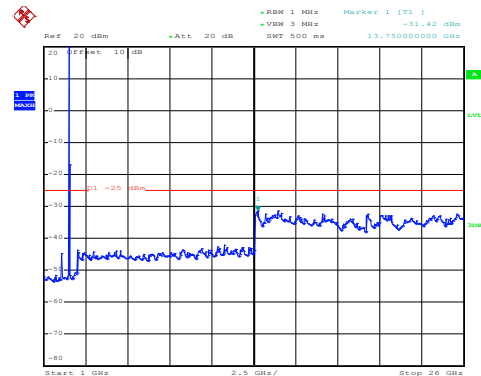
1GHz~26GHz

Middle channel



Date: 26.APR.2020 09:46:00

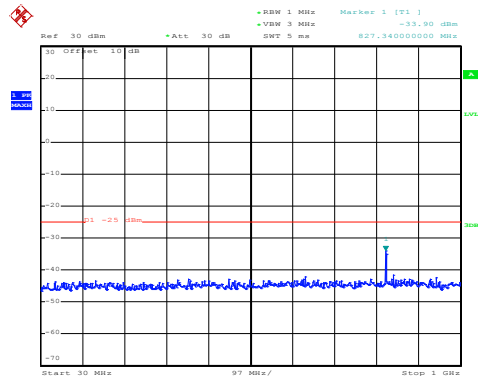
30MHz~1GHz



Date: 26.APR.2020 09:47:38

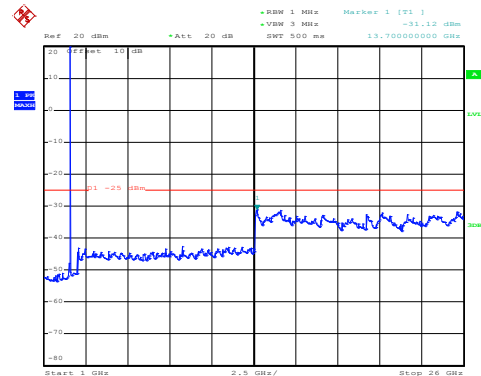
1GHz~26GHz

High channel



Date: 26.APR.2020 09:46:18

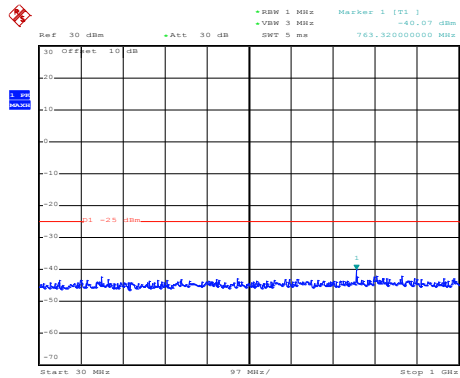
30MHz~1GHz



Date: 26.APR.2020 09:47:20

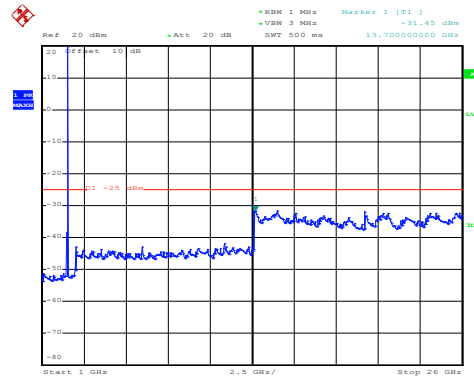
1GHz~26GHz

LTE Band 7: 16 QAM & RB Size 1
BW: 20MHz
Lowest channel



Date: 26.APR.2020 09:40:54

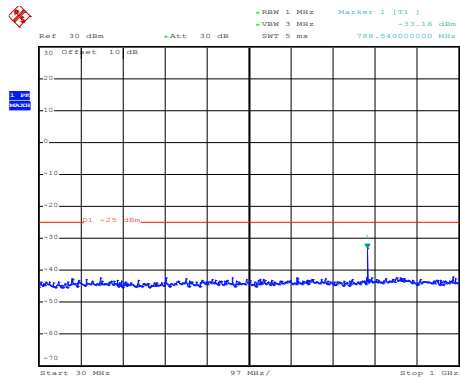
30MHz~1GHz



Date: 26.APR.2020 09:40:01

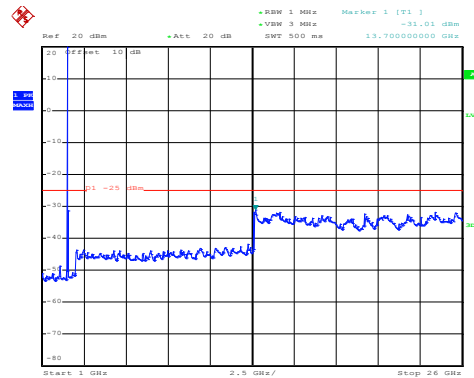
1GHz~26GHz

Middle channel



Date: 26.APR.2020 09:41:12

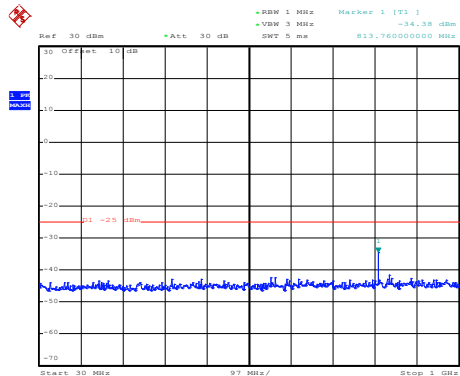
30MHz~1GHz



Date: 26.APR.2020 09:39:38

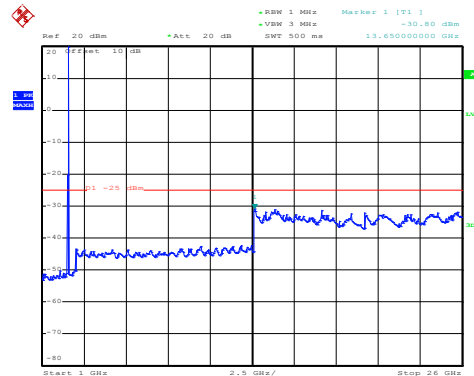
1GHz~26GHz

High channel



Date: 26.APR.2020 09:41:39

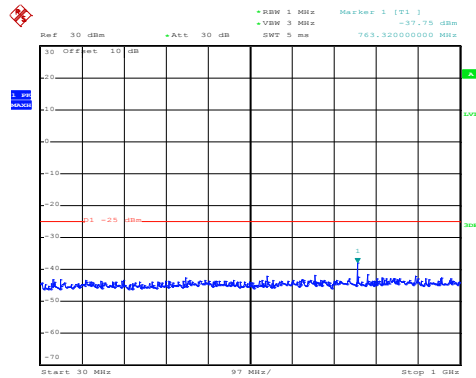
30MHz~1GHz



Date: 26.APR.2020 09:39:15

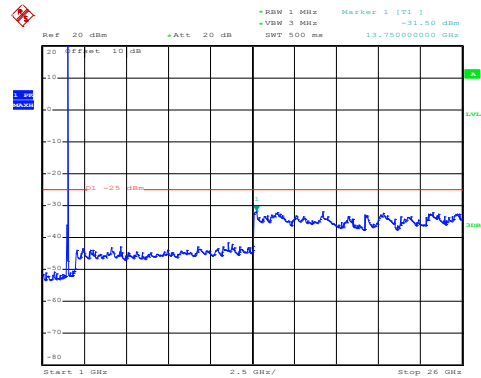
1GHz~26GHz

LTE Band 7: QPSK & RB Size 1
BW: 20MHz
Lowest channel



Date: 26.APR.2020 09:40:43

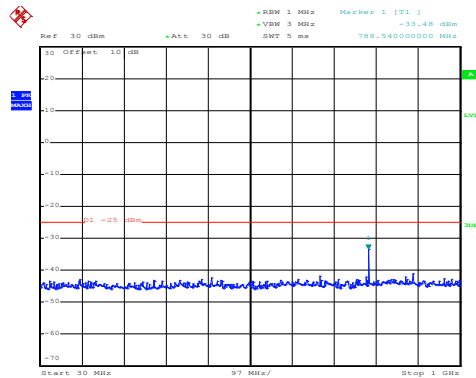
30MHz~1GHz



Date: 26.APR.2020 09:39:54

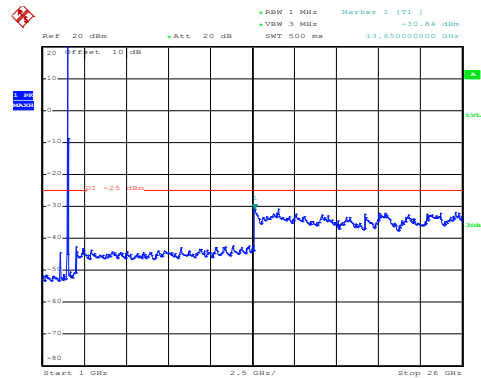
1GHz~26GHz

Middle channel



Date: 26.APR.2020 09:41:19

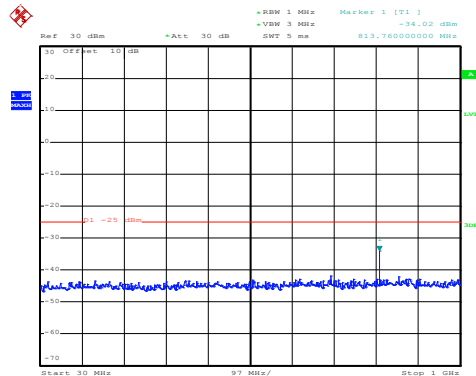
30MHz~1GHz



Date: 26.APR.2020 09:39:31

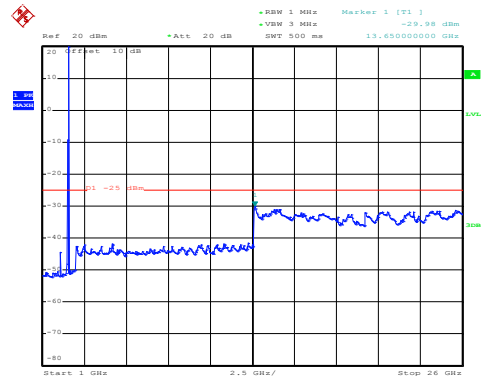
1GHz~26GHz

High channel



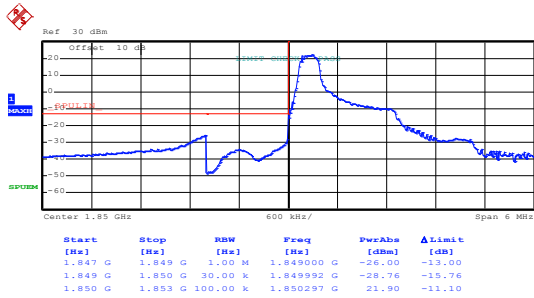
Date: 26.APR.2020 09:41:32

30MHz~1GHz



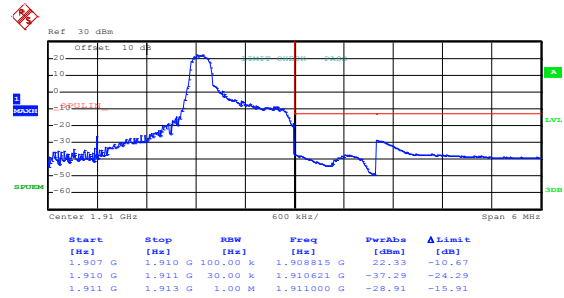
Date: 26.APR.2020 09:38:07

1GHz~26GHz

Band edge emission:**LTE Band 2 part:****LTE Band 2, BW: 1.4MHz
16QAM & RB Size 1**

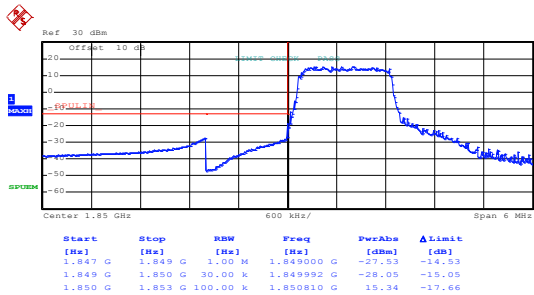
Date: 26.APR.2020 09:05:55

Lowest channel



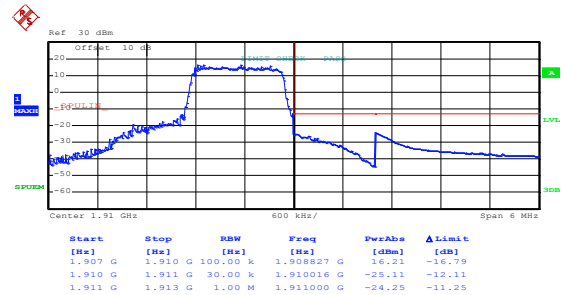
Date: 26.APR.2020 09:08:08

Highest channel

16QAM & RB Size 6

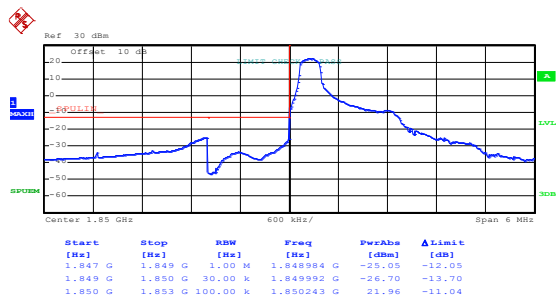
Date: 26.APR.2020 09:06:10

Lowest channel



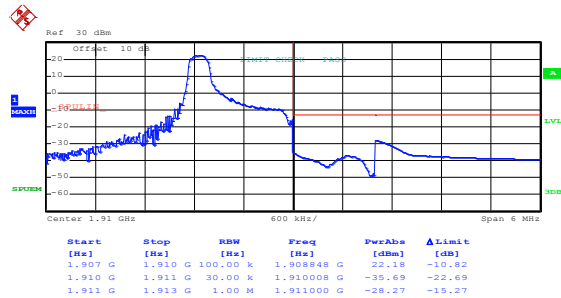
Date: 26.APR.2020 09:07:01

Highest channel

LTE Band 2, BW: 1.4MHz
QPSK & RB Size 1

Date: 26.APR.2020 09:05:21

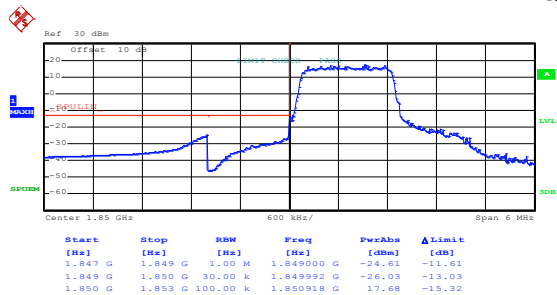
Lowest channel



Date: 26.APR.2020 09:07:41

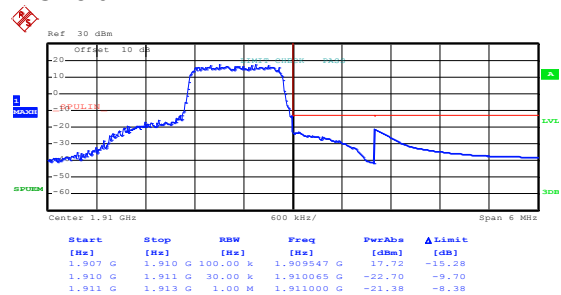
Highest channel

QPSK & RB Size 6



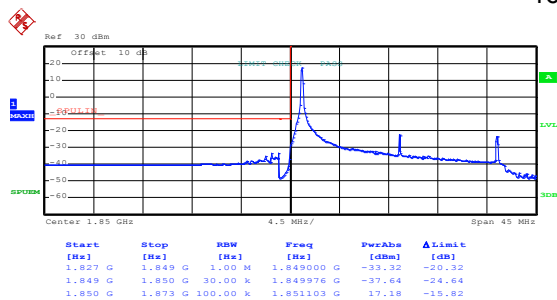
Date: 26.APR.2020 09:06:05

Lowest channel



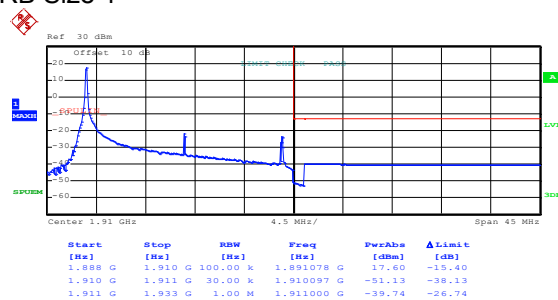
Date: 26.APR.2020 09:06:49

Highest channel

LTE Band 2, BW: 20MHz
16QAM & RB Size 1

Date: 26.APR.2020 09:13:15

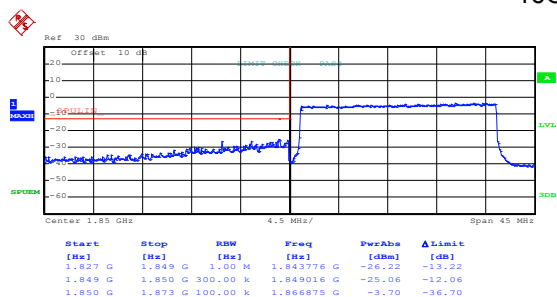
Lowest channel



Date: 26.APR.2020 09:09:21

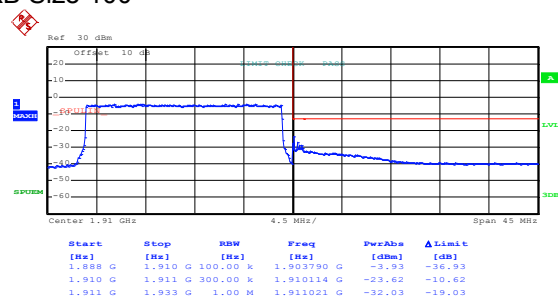
Highest channel

16QAM & RB Size 100



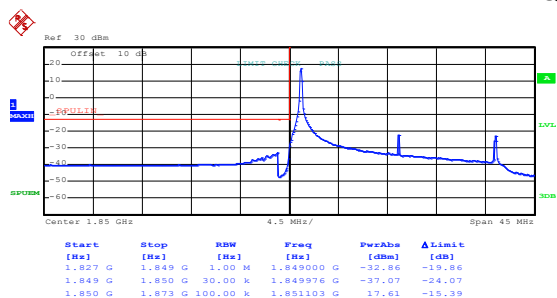
Date: 26.APR.2020 09:12:40

Lowest channel



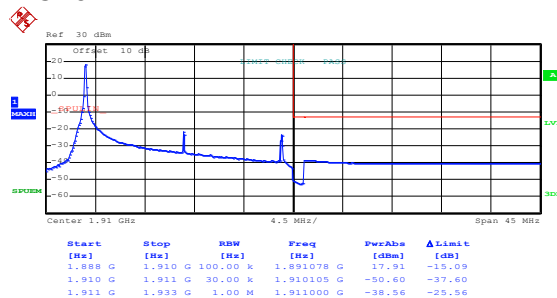
Date: 26.APR.2020 09:12:09

Highest channel

LTE Band 2, BW: 20MHz
QPSK & RB Size 1

Date: 26.APR.2020 09:13:10

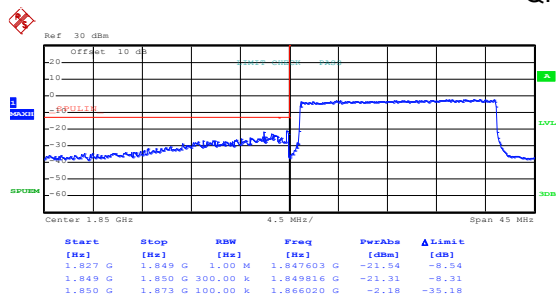
Lowest channel



Date: 26.APR.2020 09:09:15

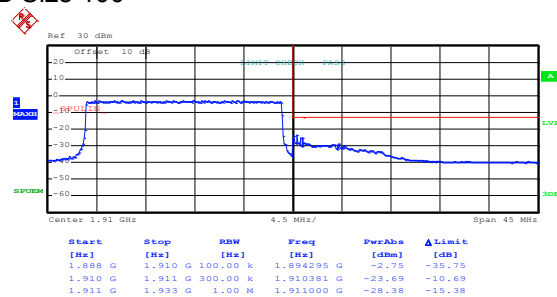
Highest channel

QPSK & RB Size 100



Date: 26.APR.2020 09:12:35

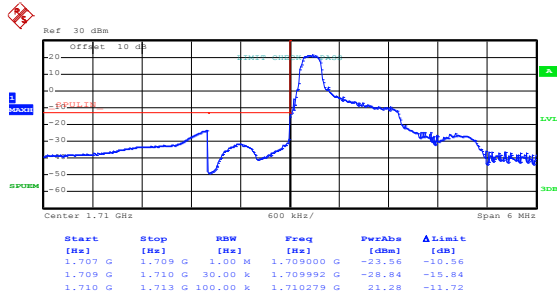
Lowest channel



Date: 26.APR.2020 09:12:04

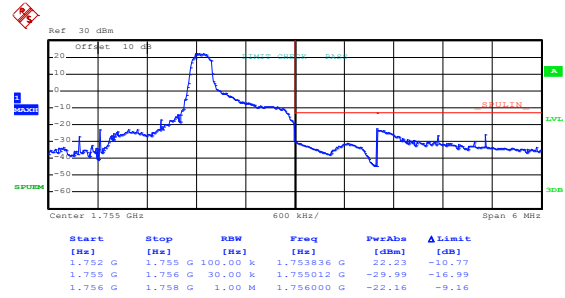
Highest channel

LTE Band 4 part:

LTE Band 4, BW: 1.4MHz
16QAM & RB Size 1

Date: 26.APR.2020 09:16:11

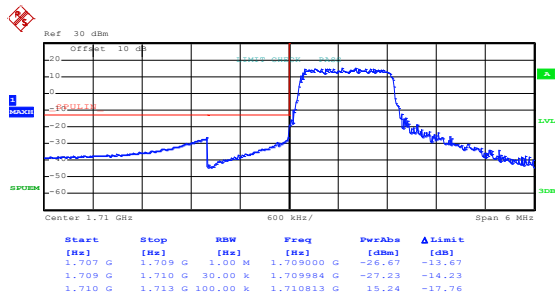
Lowest channel



Date: 26.APR.2020 09:17:24

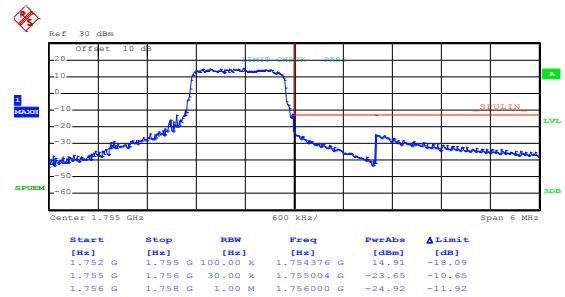
Highest channel

16QAM & RB Size 6



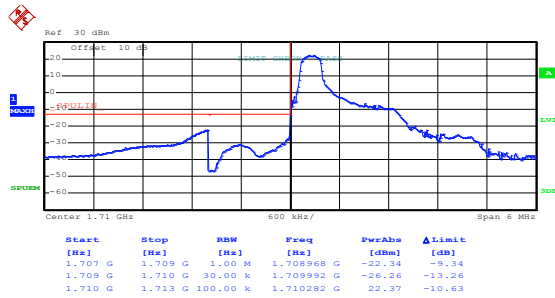
Date: 26.APR.2020 09:16:25

Lowest channel



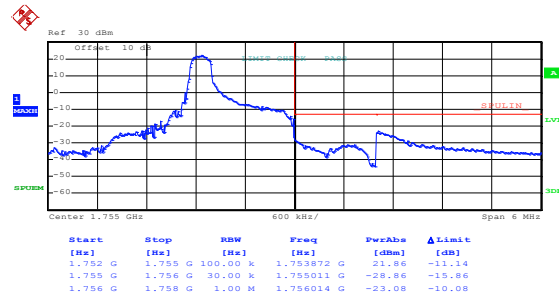
Date: 26.APR.2020 09:16:50

Highest channel

LTE Band 4, BW: 1.4MHz
QPSK & RB Size 1

Date: 26.APR.2020 09:15:59

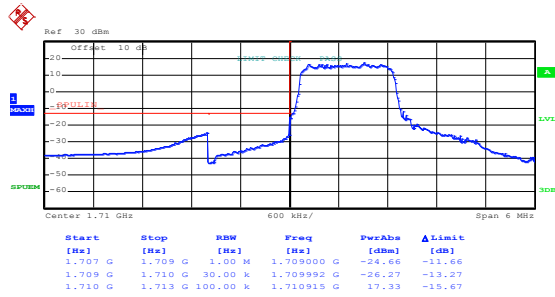
Lowest channel



Date: 26.APR.2020 09:17:07

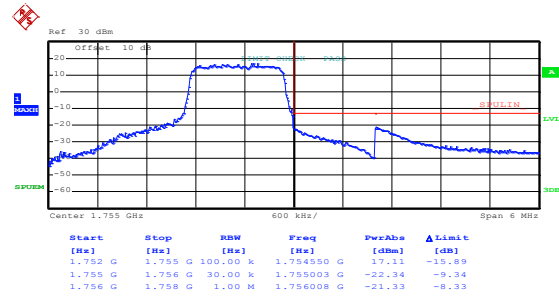
Highest channel

QPSK & RB Size 6



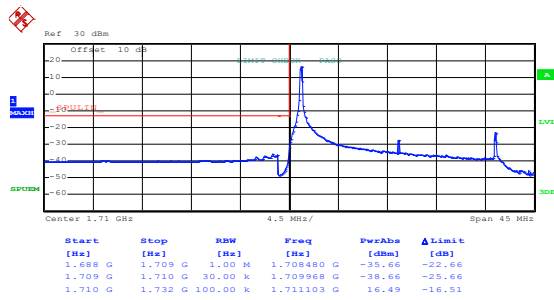
Date: 26.APR.2020 09:16:21

Lowest channel



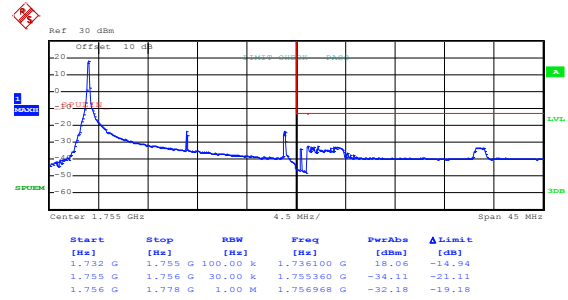
Date: 26.APR.2020 09:16:45

Highest channel

LTE Band 4, BW: 20MHz
16QAM & RB Size 1

Date: 26.APR.2020 09:19:08

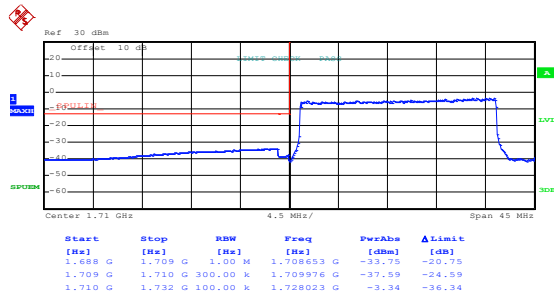
Lowest channel



Date: 26.APR.2020 09:18:01

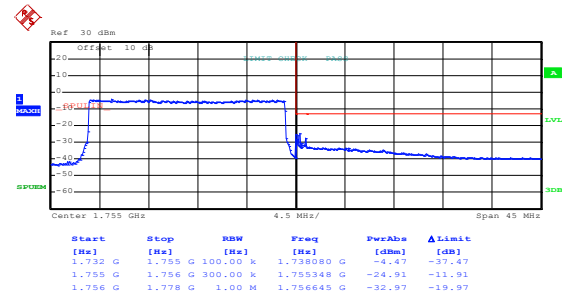
Highest channel

16QAM & RB Size 100



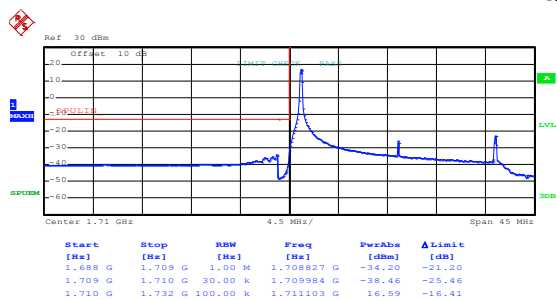
Date: 26.APR.2020 09:18:50

Lowest channel



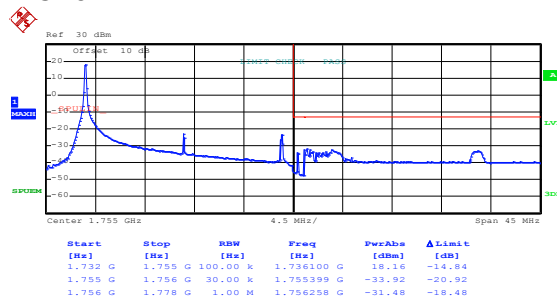
Date: 26.APR.2020 09:18:21

Highest channel

LTE Band 4, BW: 20MHz
QPSK & RB Size 1

Date: 26.APR.2020 09:19:04

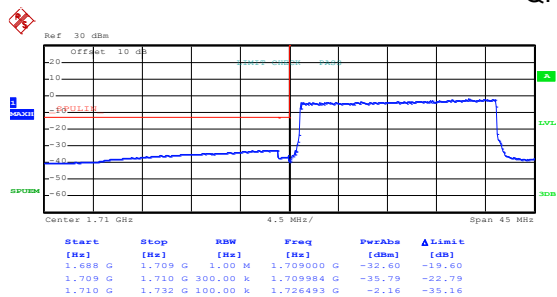
Lowest channel



Date: 26.APR.2020 09:17:53

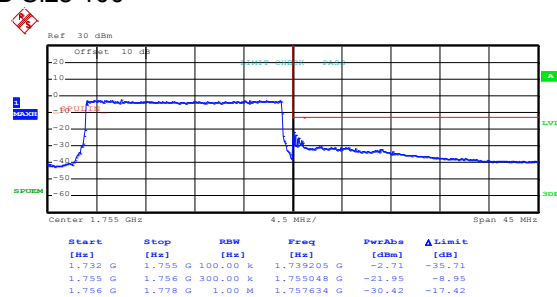
Highest channel

QPSK & RB Size 100



Date: 26.APR.2020 09:18:46

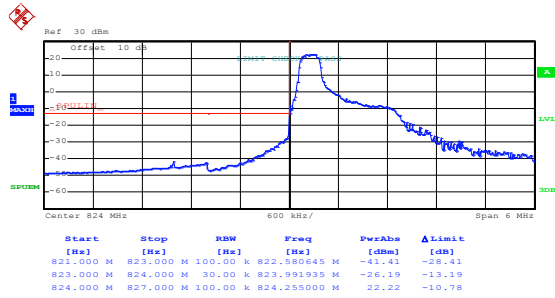
Lowest channel



Date: 26.APR.2020 09:18:15

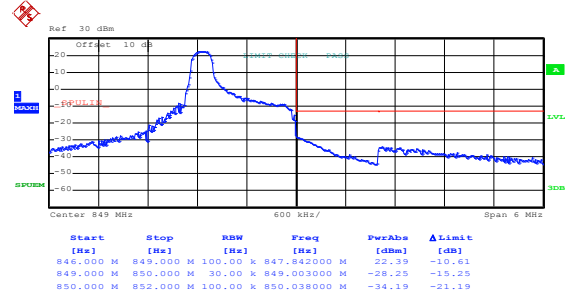
Highest channel

LTE Band 5 part:

LTE Band 5, BW: 1.4MHz
16QAM & RB Size 1

Date: 26.APR.2020 09:21:57

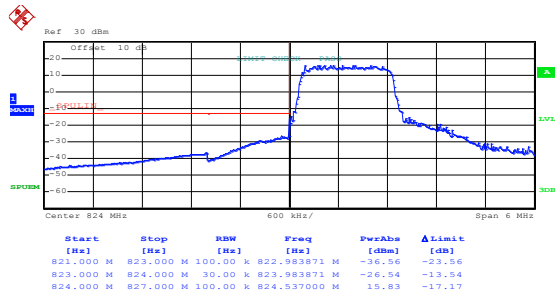
Lowest channel



Date: 26.APR.2020 09:23:10

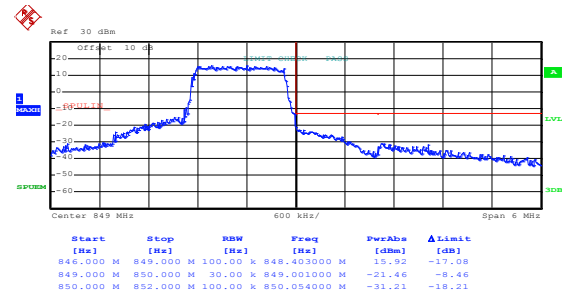
Highest channel

16QAM & RB Size 6



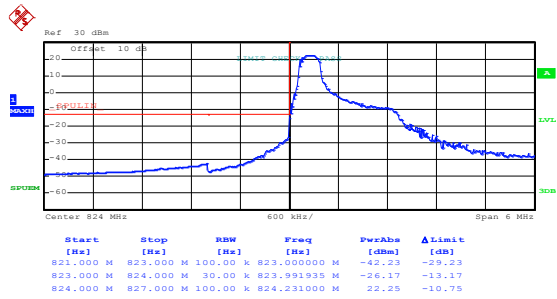
Date: 26.APR.2020 09:22:10

Lowest channel



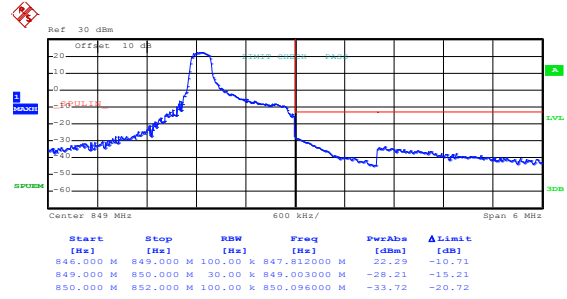
Date: 26.APR.2020 09:22:34

Highest channel

LTE Band 5, BW: 1.4MHz
QPSK & RB Size 1

Date: 26.APR.2020 09:21:40

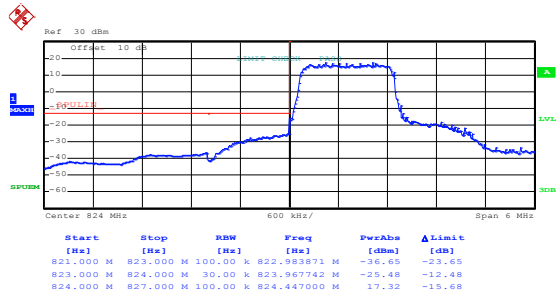
Lowest channel



Date: 26.APR.2020 09:22:53

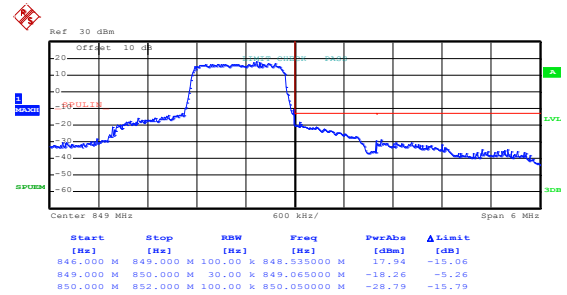
Highest channel

QPSK & RB Size 6



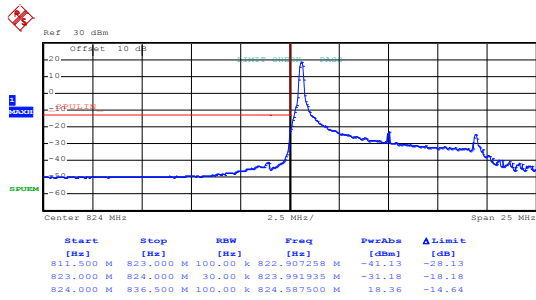
Date: 26.APR.2020 09:22:05

Lowest channel



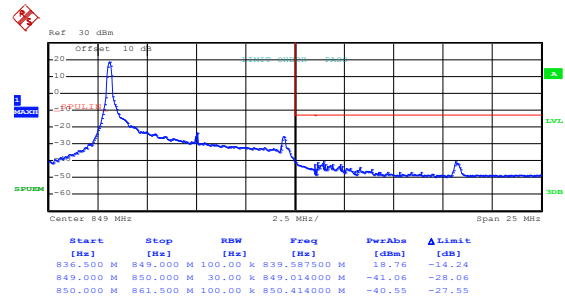
Date: 26.APR.2020 09:22:30

Highest channel

LTE Band 5, BW: 10MHz
16QAM & RB Size 1

Date: 26.APR.2020 09:25:07

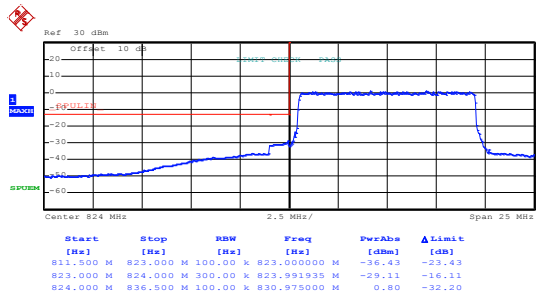
Lowest channel



Date: 26.APR.2020 09:23:47

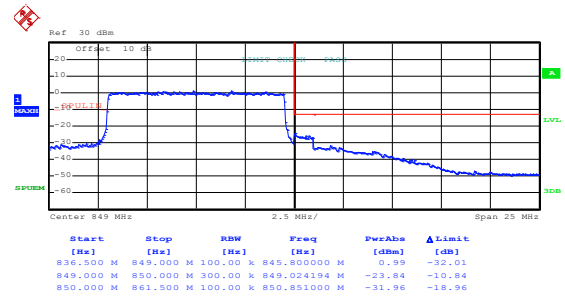
Highest channel

16QAM & RB Size 50



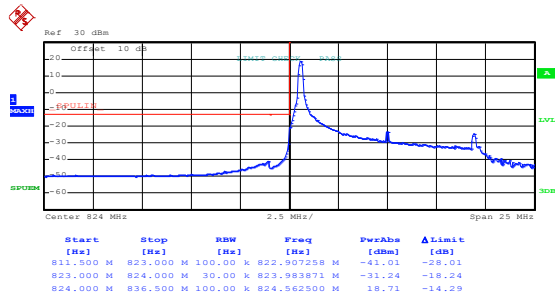
Date: 26.APR.2020 09:24:46

Lowest channel



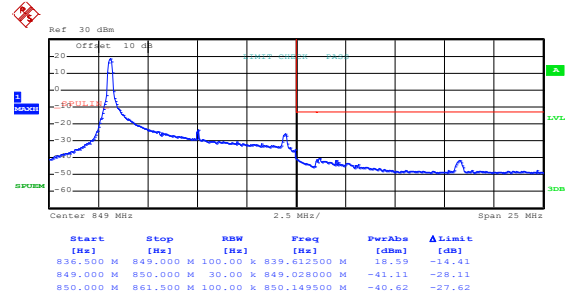
Date: 26.APR.2020 09:24:16

Highest channel

LTE Band 5, BW: 10MHz
QPSK & RB Size 1

Date: 26.APR.2020 09:25:01

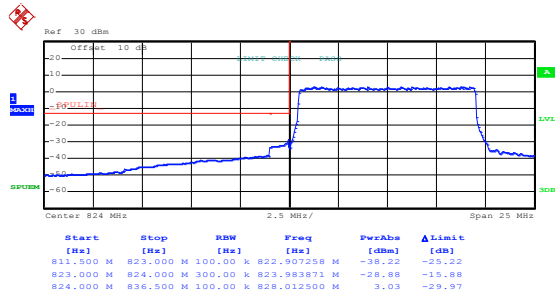
Lowest channel



Date: 26.APR.2020 09:23:40

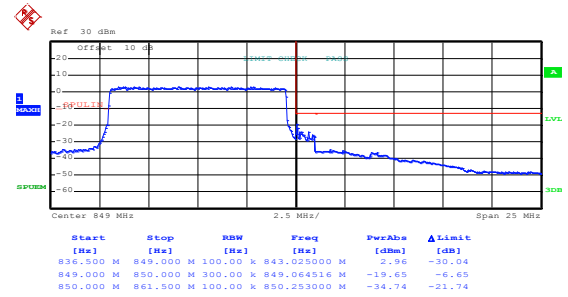
Highest channel

QPSK & RB Size 50



Date: 26.APR.2020 09:24:41

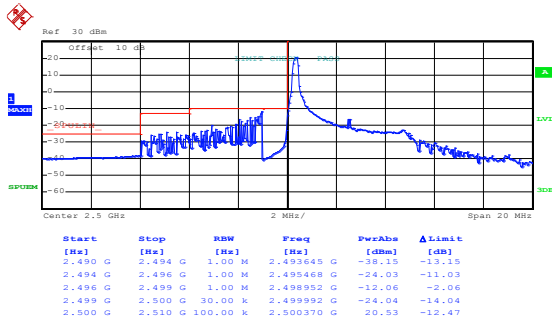
Lowest channel



Date: 26.APR.2020 09:24:11

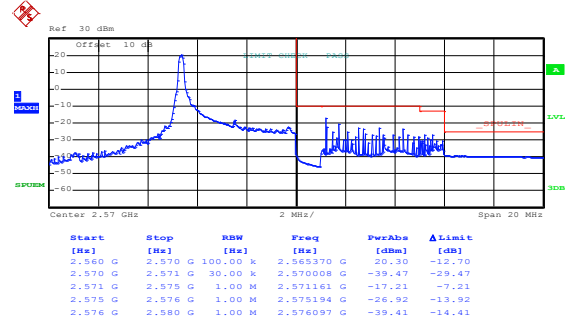
Highest channel

LTE Band 7 part:

LTE Band 7, BW: 5MHz
16QAM & RB Size 1

Date: 26.APR.2020 09:26:50

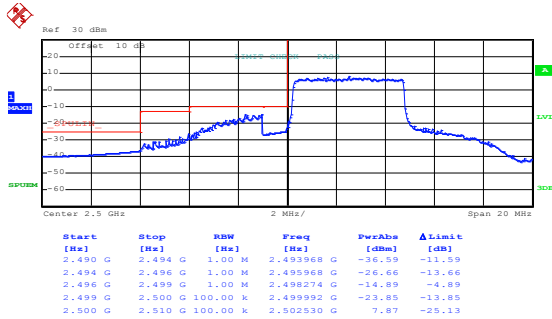
Lowest channel



Date: 26.APR.2020 09:29:26

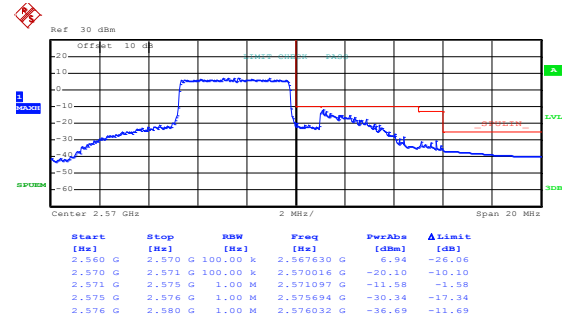
Highest channel

16QAM & RB Size 25



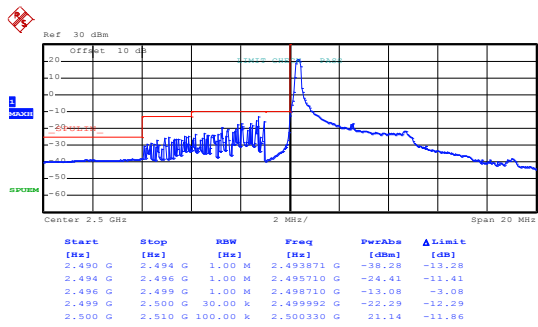
Date: 26.APR.2020 09:27:22

Lowest channel



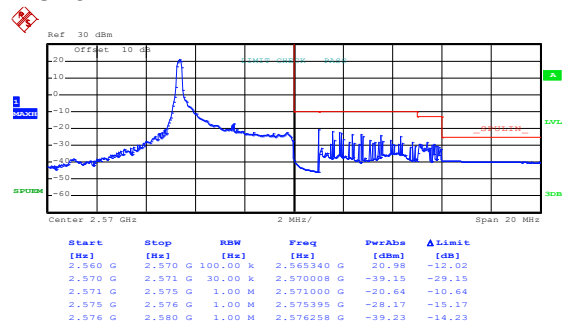
Date: 26.APR.2020 09:28:25

Highest channel

LTE Band 7, BW: 5MHz
QPSK & RB Size 1

Date: 26.APR.2020 09:26:25

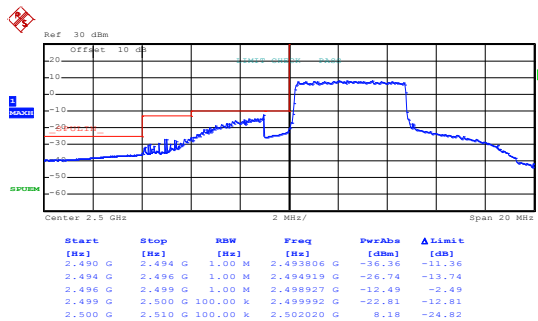
Lowest channel



Date: 26.APR.2020 09:29:05

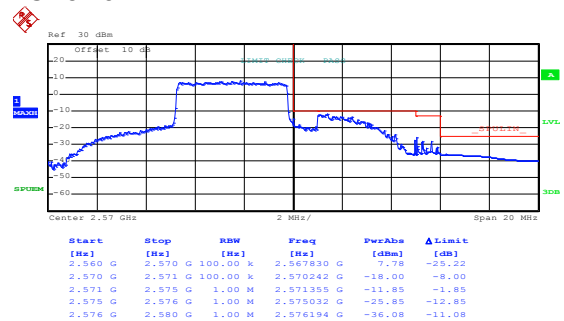
Highest channel

QPSK & RB Size 25



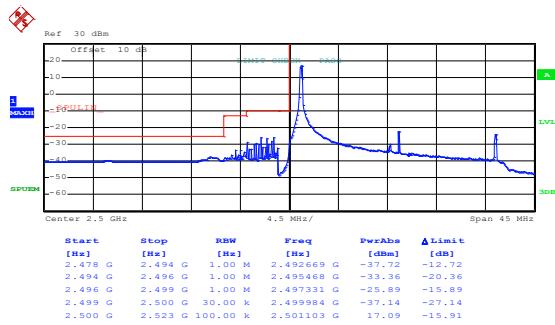
Date: 26.APR.2020 09:27:12

Lowest channel



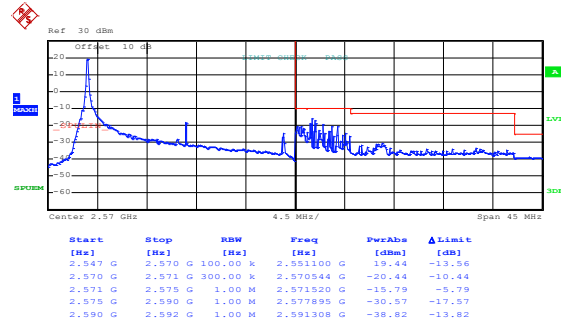
Date: 26.APR.2020 09:28:17

Highest channel

LTE Band 7, BW: 20MHz
16QAM & RB Size 1

Date: 26.APR.2020 09:33:20

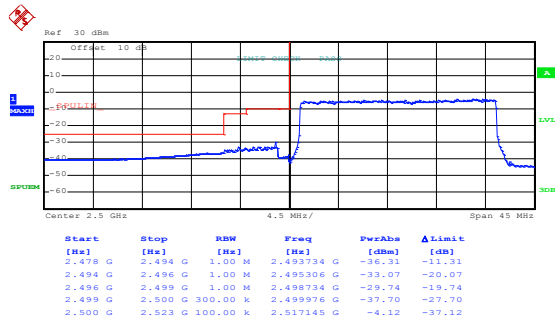
Lowest channel



Date: 26.APR.2020 10:12:02

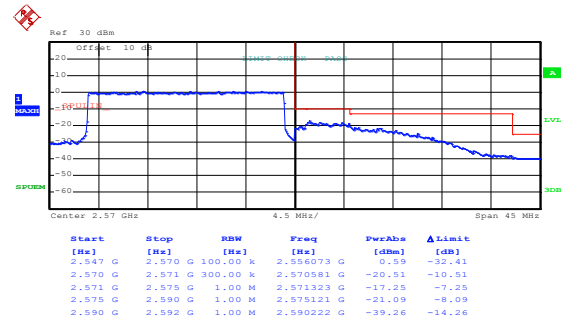
Highest channel

16QAM & RB Size 100



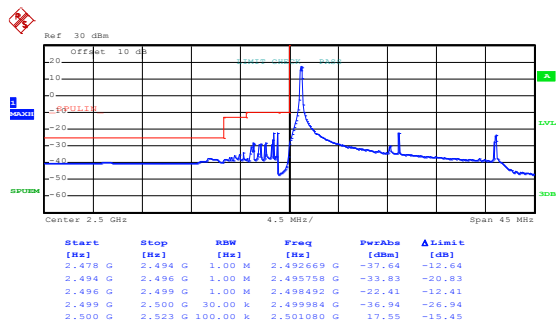
Date: 26.APR.2020 09:32:58

Lowest channel



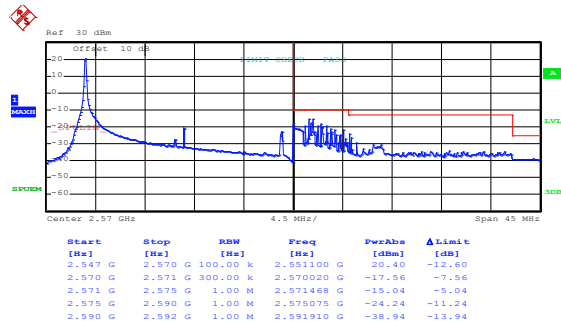
Date: 26.APR.2020 09:35:13

Highest channel

LTE Band 7, BW: 20MHz
QPSK & RB Size 1

Date: 26.APR.2020 09:33:14

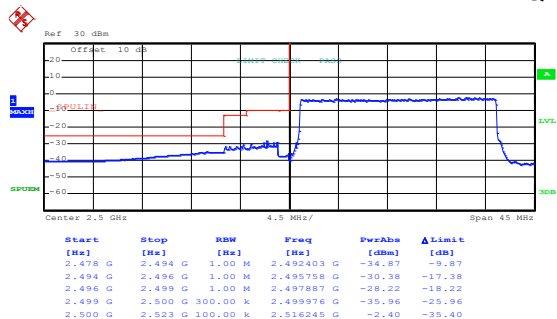
Lowest channel



Date: 26.APR.2020 10:12:17

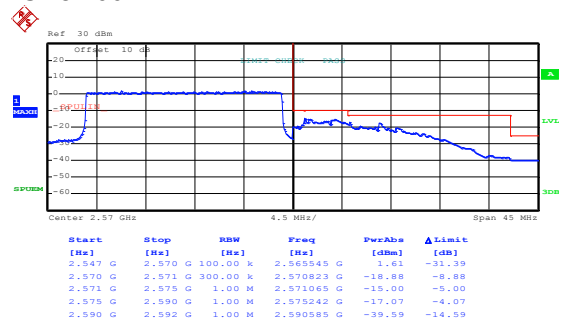
Highest channel

QPSK & RB Size 100



Date: 26.APR.2020 09:32:52

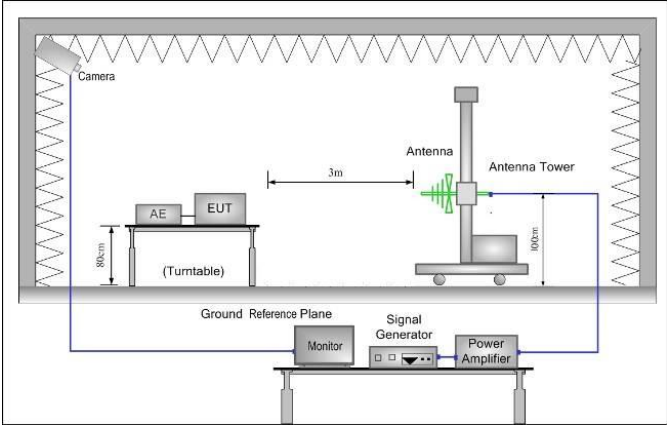
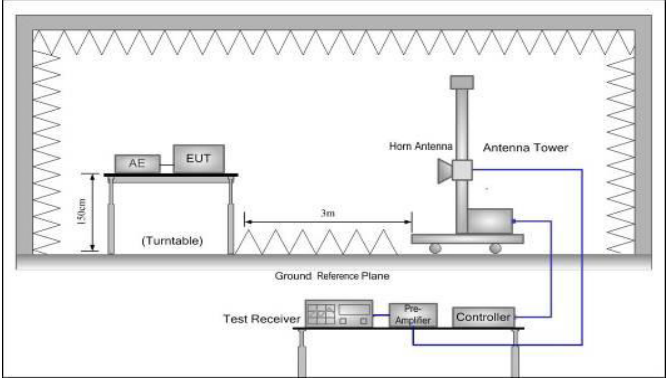
Lowest channel



Date: 26.APR.2020 09:35:02

Highest channel

6.5 Field strength of spurious radiation measurement

Test Requirement:	Part 22.917(a), Part 24.238 (a), Part 27.53(m), Part 27.53(h)
Limit:	LTE Band 2 & 4 & 5: The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ dB (-13 dBm). LTE Band 7: For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz.
Test setup:	Below 1GHz  Above 1GHz 
Test Procedure:	1. The EUT was placed on the top of a rotating table 0.8m(below 1GHz)/1.5m(above 1GHz) above the ground at a 3 meter camber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. 3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method.

	4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details.
Test results:	Passed

Measurement Data:

LTE Band 2 part:

Band 2 (1.4MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3701.40	-61.12	12.26	0.75	-49.61	-13.00	-36.61	Vertical
5552.10	-52.43	12.47	1.13	-41.09	-13.00	-28.09	Vertical
7402.00	-45.47	11.26	1.63	-35.84	-13.00	-22.84	Vertical
3701.40	-56.57	12.26	0.75	-45.06	-13.00	-32.06	Horizontal
5552.10	-52.50	12.47	1.13	-41.16	-13.00	-28.16	Horizontal
7402.00	-46.65	11.26	1.63	-37.02	-13.00	-24.02	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3760.00	-61.22	12.19	0.79	-49.82	-13.00	-36.82	Vertical
5640.00	-52.83	12.60	1.15	-41.38	-13.00	-28.38	Vertical
7520.00	-44.88	11.18	1.66	-35.36	-13.00	-22.36	Vertical
3760.00	-56.56	12.19	0.79	-45.16	-13.00	-32.16	Horizontal
5640.00	-52.90	12.60	1.15	-41.45	-13.00	-28.45	Horizontal
7520.00	-47.01	11.18	1.66	-37.49	-13.00	-24.49	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3816.60	-61.49	12.12	0.81	-50.18	-13.00	-37.18	Vertical
5724.90	-53.06	12.71	1.19	-41.54	-13.00	-28.54	Vertical
7633.20	-45.21	11.09	1.71	-35.83	-13.00	-22.83	Vertical
3816.60	-56.95	12.12	0.81	-45.64	-13.00	-32.64	Horizontal
5724.90	-52.70	12.71	1.19	-41.18	-13.00	-28.18	Horizontal
7633.20	-46.87	11.09	1.71	-37.49	-13.00	-24.49	Horizontal
Remark:							
The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

Band 2 (20MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3720.00	-61.04	12.24	0.77	-49.57	-13.00	-36.57	Vertical
5580.00	-51.98	12.51	1.15	-40.62	-13.00	-27.62	Vertical
7440.00	-45.73	11.24	1.64	-36.13	-13.00	-23.13	Vertical
3720.00	-56.55	12.24	0.77	-45.08	-13.00	-32.08	Horizontal
5580.00	-52.87	12.51	1.15	-41.51	-13.00	-28.51	Horizontal
7440.00	-46.64	11.24	1.64	-37.04	-13.00	-24.04	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3760.00	-60.94	12.19	0.79	-49.54	-13.00	-36.54	Vertical
5640.00	-52.48	12.60	1.15	-41.03	-13.00	-28.03	Vertical
7520.00	-45.19	11.18	1.66	-35.67	-13.00	-22.67	Vertical
3760.00	-56.11	12.19	0.79	-44.71	-13.00	-31.71	Horizontal
5640.00	-53.23	12.60	1.15	-41.78	-13.00	-28.78	Horizontal
7520.00	-47.46	11.18	1.66	-37.94	-13.00	-24.94	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3800.00	-61.58	12.14	0.79	-50.23	-13.00	-37.23	Vertical
5700.00	-53.15	12.68	1.18	-41.65	-13.00	-28.65	Vertical
7600.00	-44.94	11.12	1.69	-35.51	-13.00	-22.51	Vertical
3800.00	-57.25	12.14	0.79	-45.90	-13.00	-32.90	Horizontal
5700.00	-52.45	12.68	1.18	-40.95	-13.00	-27.95	Horizontal
7600.00	-47.19	11.12	1.69	-37.76	-13.00	-24.76	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

LTE Band 4 part:

Band 4 (1.4MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3421.40	-35.51	12.30	0.70	-23.91	-13.00	-10.91	Vertical
5132.10	-48.53	12.69	1.01	-36.85	-13.00	-23.85	Vertical
6842.80	-45.45	11.56	1.53	-35.42	-13.00	-22.42	Vertical
3421.40	-39.94	12.30	0.70	-28.34	-13.00	-15.34	Horizontal
5132.10	-44.81	12.69	1.01	-33.13	-13.00	-20.13	Horizontal
6842.80	-45.30	11.56	1.53	-35.27	-13.00	-22.27	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3465.00	-35.48	12.41	0.72	-23.79	-13.00	-10.79	Vertical
5197.50	-48.40	12.64	1.04	-36.80	-13.00	-23.80	Vertical
6930.00	-45.56	11.53	1.56	-35.59	-13.00	-22.59	Vertical
3465.00	-39.81	12.41	0.72	-28.12	-13.00	-15.12	Horizontal
5197.50	-44.70	12.64	1.04	-33.10	-13.00	-20.10	Horizontal
6930.00	-45.36	11.53	1.56	-35.39	-13.00	-22.39	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3508.60	-35.39	12.49	0.74	-23.64	-13.00	-10.64	Vertical
5262.90	-47.97	12.59	1.07	-36.45	-13.00	-23.45	Vertical
7017.20	-45.65	11.49	1.58	-35.74	-13.00	-22.74	Vertical
3508.60	-40.03	12.49	0.74	-28.28	-13.00	-15.28	Horizontal
5262.90	-45.03	12.59	1.07	-33.51	-13.00	-20.51	Horizontal
7017.20	-44.97	11.49	1.58	-35.06	-13.00	-22.06	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

Band 4 (20MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3440.00	-35.51	12.34	0.71	-23.88	-13.00	-10.88	Vertical
5160.00	-48.30	12.67	1.03	-36.66	-13.00	-23.66	Vertical
6880.00	-45.00	11.55	1.54	-34.99	-13.00	-21.99	Vertical
3440.00	-40.43	12.34	0.71	-28.80	-13.00	-15.80	Horizontal
5160.00	-45.26	12.67	1.03	-33.62	-13.00	-20.62	Horizontal
6880.00	-45.44	11.55	1.54	-35.43	-13.00	-22.43	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3465.00	-35.81	12.41	0.72	-24.12	-13.00	-11.12	Vertical
5197.50	-48.49	12.64	1.04	-36.89	-13.00	-23.89	Vertical
6930.00	-44.99	11.53	1.56	-35.02	-13.00	-22.02	Vertical
3465.00	-40.16	12.41	0.72	-28.47	-13.00	-15.47	Horizontal
5197.50	-44.48	12.64	1.04	-32.88	-13.00	-19.88	Horizontal
6930.00	-45.07	11.53	1.56	-35.10	-13.00	-22.10	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
3490.00	-35.24	12.49	0.73	-23.48	-13.00	-10.48	Vertical
5235.00	-47.78	12.61	1.06	-36.23	-13.00	-23.23	Vertical
6980.00	-46.15	11.51	1.57	-36.21	-13.00	-23.21	Vertical
3490.00	-40.37	12.49	0.73	-28.61	-13.00	-15.61	Horizontal
5235.00	-45.36	12.61	1.06	-33.81	-13.00	-20.81	Horizontal
6980.00	-45.13	11.51	1.57	-35.19	-13.00	-22.19	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

Band 5 (1.4MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1649.40	-61.28	9.58	0.20	-51.90	-13.00	-38.90	Vertical
2474.10	-57.44	10.79	0.43	-47.08	-13.00	-34.08	Vertical
3298.80	-50.00	12.14	0.64	-38.50	-13.00	-25.50	Vertical
1649.40	-56.78	9.58	0.20	-47.40	-13.00	-34.40	Horizontal
2474.10	-62.44	10.79	0.43	-52.08	-13.00	-39.08	Horizontal
3298.80	-50.45	12.14	0.64	-38.95	-13.00	-25.95	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1673.30	-60.93	9.62	0.22	-51.53	-13.00	-38.53	Vertical
2509.50	-57.43	10.83	0.46	-47.06	-13.00	-34.06	Vertical
3346.00	-50.25	12.23	0.66	-38.68	-13.00	-25.68	Vertical
1673.30	-56.59	9.62	0.22	-47.19	-13.00	-34.19	Horizontal
2509.50	-62.43	10.83	0.46	-52.06	-13.00	-39.06	Horizontal
3346.00	-51.14	12.23	0.66	-39.57	-13.00	-26.57	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1696.60	-61.30	9.66	0.23	-51.87	-13.00	-38.87	Vertical
2544.90	-57.87	10.88	0.49	-47.48	-13.00	-34.48	Vertical
3393.20	-49.84	12.32	0.68	-38.20	-13.00	-25.20	Vertical
1696.60	-56.58	9.66	0.23	-47.15	-13.00	-34.15	Horizontal
2544.90	-62.09	10.88	0.49	-51.70	-13.00	-38.70	Horizontal
3393.20	-51.49	12.32	0.68	-39.85	-13.00	-26.85	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

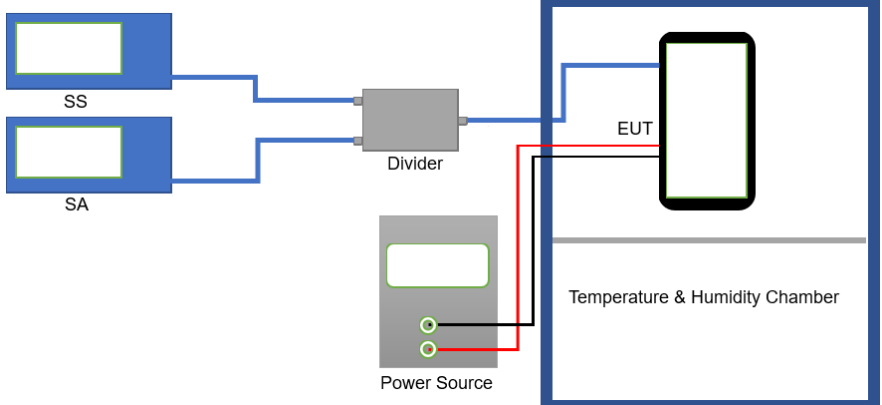
Band 5 (10MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1658.00	-61.13	9.58	0.21	-51.76	-13.00	-38.76	Vertical
2487.00	-57.09	10.79	0.45	-46.75	-13.00	-33.75	Vertical
3316.00	-50.43	12.14	0.65	-38.94	-13.00	-25.94	Vertical
1658.00	-56.93	9.58	0.21	-47.56	-13.00	-34.56	Horizontal
2487.00	-61.94	10.79	0.45	-51.60	-13.00	-38.60	Horizontal
3316.00	-50.79	12.14	0.65	-39.30	-13.00	-26.30	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1673.30	-60.97	9.62	0.21	-51.56	-13.00	-38.56	Vertical
2509.50	-57.15	10.83	0.46	-46.78	-13.00	-33.78	Vertical
3346.00	-50.10	12.23	0.66	-38.53	-13.00	-25.53	Vertical
1673.30	-57.14	9.62	0.21	-47.73	-13.00	-34.73	Horizontal
2509.50	-61.67	10.83	0.46	-51.30	-13.00	-38.30	Horizontal
3346.00	-50.44	12.23	0.66	-38.87	-13.00	-25.87	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
1688.00	-61.28	9.66	0.23	-51.85	-13.00	-38.85	Vertical
2532.00	-57.25	10.88	0.48	-46.85	-13.00	-33.85	Vertical
3376.00	-50.17	12.32	0.67	-38.52	-13.00	-25.52	Vertical
1688.00	-57.13	9.66	0.23	-47.70	-13.00	-34.70	Horizontal
2532.00	-61.26	10.88	0.48	-50.86	-13.00	-37.86	Horizontal
3376.00	-50.79	12.32	0.67	-39.14	-13.00	-26.14	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

LTE Band 7 part:

Band 7 (5MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
5005.00	-49.31	12.80	0.94	-37.45	-25.00	-12.45	Vertical
7507.50	-44.13	11.19	1.65	-34.59	-25.00	-9.59	Vertical
5005.00	-53.17	12.80	0.94	-41.31	-25.00	-16.31	Horizontal
7507.50	-42.26	11.19	1.65	-32.72	-25.00	-7.72	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
5070.00	-48.92	12.74	0.98	-37.16	-25.00	-12.16	Vertical
7605.00	-44.12	11.12	1.69	-34.69	-25.00	-9.69	Vertical
5070.00	-53.43	12.74	0.98	-41.67	-25.00	-16.67	Horizontal
7605.00	-42.40	11.12	1.69	-32.97	-25.00	-7.97	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
5135.00	-48.93	12.69	1.01	-37.25	-25.00	-12.25	Vertical
7702.50	-44.20	11.04	1.72	-34.88	-25.00	-9.88	Vertical
5135.00	-52.55	12.69	1.01	-40.87	-25.00	-15.87	Horizontal
7702.50	-41.71	11.04	1.72	-32.39	-25.00	-7.39	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

Band 7 (20MHz)							
Lowest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
5020.00	-48.98	12.78	0.97	-37.17	-25.00	-12.17	Vertical
7530.00	-43.94	11.18	1.68	-34.44	-25.00	-9.44	Vertical
5020.00	-53.48	12.78	0.97	-41.67	-25.00	-16.67	Horizontal
7530.00	-42.30	11.18	1.68	-32.80	-25.00	-7.80	Horizontal
Middle channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
5070.00	-48.45	12.74	0.98	-36.69	-25.00	-11.69	Vertical
7605.00	-43.38	11.12	1.69	-33.95	-25.00	-8.95	Vertical
5070.00	-52.95	12.74	0.98	-41.19	-25.00	-16.19	Horizontal
7605.00	-42.60	11.12	1.69	-33.17	-25.00	-8.17	Horizontal
Highest channel							
Frequency (MHz)	Level at antenna terminals (dBm)	Substitute antenna gain (dBi)	Cable Loss (dBi)	Spurious Emission level (dBm)	Limit Line (dBm)	Over Limit (dBm)	Polarization
5120.00	-49.31	12.70	1.00	-37.61	-25.00	-12.61	Vertical
7680.00	-44.07	11.06	1.72	-34.73	-25.00	-9.73	Vertical
5120.00	-53.20	12.70	1.00	-41.50	-25.00	-16.50	Horizontal
7680.00	-42.22	11.06	1.72	-32.88	-25.00	-7.88	Horizontal
Remark: The emission levels of below 1 GHz are lower than the limit 20dB and not show in test report.							

6.6 Frequency stability V.S. Temperature measurement

Test Requirement:	Part 22.355, Part 24.235, Part 27.54, Part 2.1055(a)(1)(b)
Limit:	± 2.5 ppm for Band 5 Within authorized band for Band 2 & 4 & 7 & 12 & 13 & 17
Test setup:	
Test procedure:	1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to -30°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data (worst case):

LTE Band 2 part:

Reference Frequency: LTE Band 2 (10MHz) Middle channel=18900 channel=1880.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.80	-30	198	0.105319	Within authorized band for Band 2	Pass
	-20	151	0.080319		
	-10	132	0.070213		
	0	165	0.087766		
	10	147	0.078191		
	20	174	0.092553		
	30	123	0.065426		
	40	110	0.058511		
	50	107	0.056915		
16QAM					
3.80	-30	195	0.103723	Within authorized band for Band 2	Pass
	-20	165	0.087766		
	-10	131	0.069681		
	0	121	0.064362		
	10	144	0.076596		
	20	150	0.079787		
	30	177	0.094149		
	40	180	0.095745		
	50	104	0.055319		
Note: Only the worst case shown in the report.					

LTE Band 4 part:

Reference Frequency: LTE Band 4 (10MHz) Middle channel=20175 channel=1732.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.80	-30	198	0.114286	Within authorized band for Band 4	Pass
	-20	188	0.108514		
	-10	176	0.101587		
	0	123	0.070996		
	10	136	0.078499		
	20	121	0.069841		
	30	101	0.058297		
	40	112	0.064646		
	50	145	0.083694		
16QAM					
3.80	-30	192	0.110823	Within authorized band for Band 4	Pass
	-20	128	0.073882		
	-10	136	0.078499		
	0	177	0.102165		
	10	180	0.103896		
	20	145	0.083694		
	30	165	0.095238		
	40	100	0.057720		
	50	118	0.068110		
Note: Only the worst case shown in the report.					

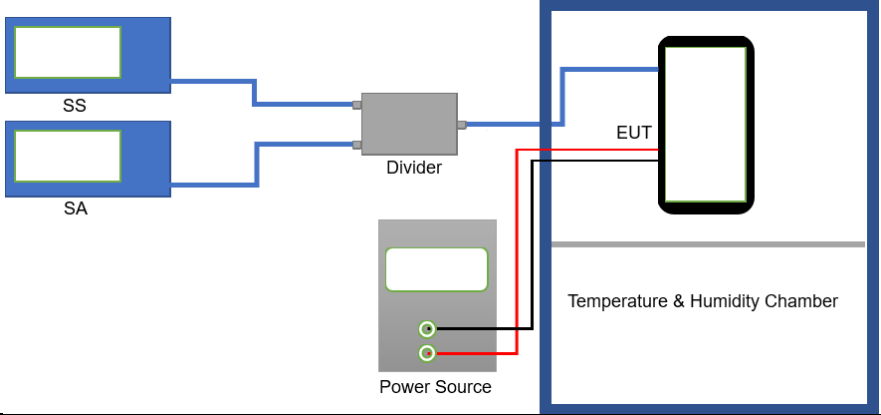
LTE Band 5 part:

Reference Frequency: LTE Band 5 (10MHz) Middle channel=20525 channel=836.50MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.80	-30	193	0.230723	±2.5	Pass
	-20	155	0.185296		
	-10	180	0.215182		
	0	177	0.211596		
	10	144	0.172146		
	20	102	0.121937		
	30	123	0.147041		
	40	165	0.197250		
	50	111	0.132696		
16QAM					
3.80	-30	198	0.236701	±2.5	Pass
	-20	150	0.179319		
	-10	136	0.162582		
	0	127	0.151823		
	10	100	0.119546		
	20	147	0.175732		
	30	180	0.215182		
	40	177	0.211596		
	50	113	0.135087		
Note: Only the worst case shown in the report.					

LTE Band 7 part:

Reference Frequency: LTE Band 7 (10MHz) Middle channel=21100 Frequency=2535.00MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
3.80	-30	199	0.078501	Within authorized band for Band 7	Pass
	-20	178	0.070217		
	-10	165	0.065089		
	0	131	0.051677		
	10	144	0.056805		
	20	170	0.067061		
	30	126	0.049704		
	40	100	0.039448		
	50	118	0.046548		
16QAM					
3.80	-30	196	0.077318	Within authorized band for Band 7	Pass
	-20	111	0.043787		
	-10	180	0.071006		
	0	133	0.052465		
	10	100	0.039448		
	20	125	0.049310		
	30	144	0.056805		
	40	177	0.069822		
	50	160	0.063116		
Note: Only the worst case shown in the report.					

6.7 Frequency stability V.S. Voltage measurement

Test Requirement:	Part 22.355, Part 24.235, Part 27.54, Part 2.1055(d)(2)
Limit:	±2.5 ppm for Band 5 Within authorized band for Band 2 & 4 & 7 & 12 & 13 & 17
Test setup:	 The diagram illustrates the test setup. A Spectrum Analyzer (SA) and a Signal Source (SS) are connected to a Divider. The Divider is connected to the EUT (Equipment Under Test) inside a Temperature & Humidity Chamber. A Power Source is also connected to the EUT.
Test procedure:	1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specify extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 5.10 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data (worst case):

LTE Band 2 part:

Reference Frequency: LTE Band 2(10MHz) Middle channel=18900 channel=1880.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.35	90	0.047872	Within authorized band for Band 2	Pass
	3.80	88	0.046809		
	3.50	77	0.040957		
16QAM					
25	4.35	96	0.051064	Within authorized band for Band 2	Pass
	3.80	80	0.042553		
	3.50	69	0.036702		
Note: Only the worst case shown in the report.					

Note: Only the worst case shown in the report.

LTE Band 4 part:

Reference Frequency: LTE Band 4(10MHz) Middle channel=20175 channel=1732.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.35	98	0.056566	Within authorized band for Band 4	Pass
	3.80	74	0.042713		
	3.50	80	0.046176		
16QAM					
25	4.35	87	0.050216	Within authorized band for Band 4	Pass
	3.80	78	0.045022		
	3.50	61	0.035209		
Note: Only the worst case shown in the report.					

Note: Only the worst case shown in the report.

LTE Band 5 part:

Reference Frequency: LTE Band 5(10MHz) Middle channel=20525 channel=836.50MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.35	99	0.118350	±2.5	Pass
	3.80	86	0.102809		
	3.50	70	0.083682		
16QAM					
25	4.35	95	0.113568	±2.5	Pass
	3.80	80	0.095637		
	3.50	60	0.071727		
Note: Only the worst case shown in the report.					

Note: Only the worst case shown in the report.

LTE Band 7 part:

Reference Frequency: LTE Band 7(10MHz) Middle channel=21100 Frequency=2535.00MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
QPSK					
25	4.35	80	0.031558	Within authorized band for Band 7	Pass
	3.80	74	0.029191		
	3.50	66	0.026036		
16QAM					
25	4.35	78	0.030769	Within authorized band for Band 7	Pass
	3.80	90	0.035503		
	3.50	83	0.032742		
Note: Only the worst case shown in the report.					

8 EUT Constructional Details

Reference to the test report No. CCISE200406501

-----End of report-----