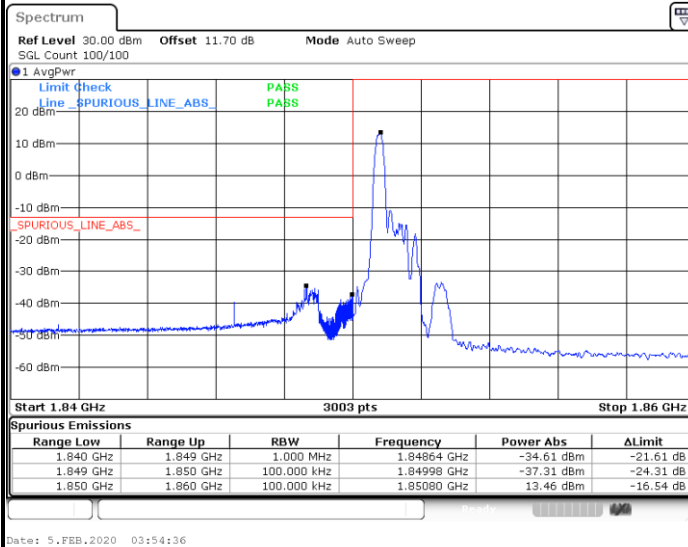


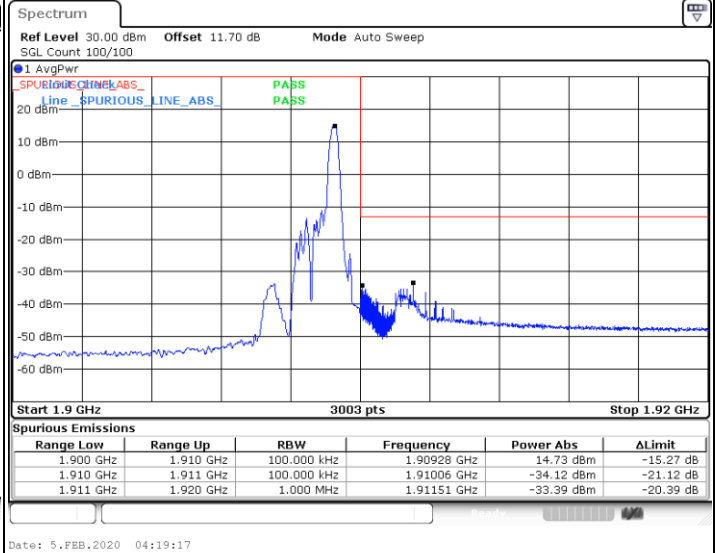


LTE Band 2 / 10MHz / 16QAM

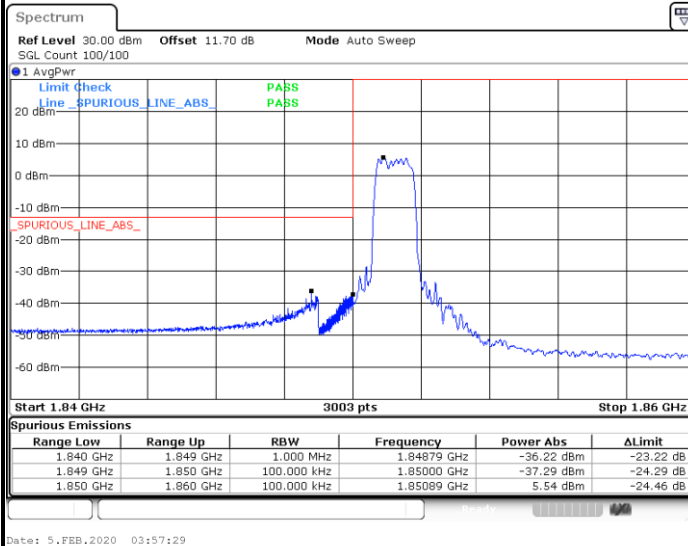
Lowest Band Edge / 1 RB



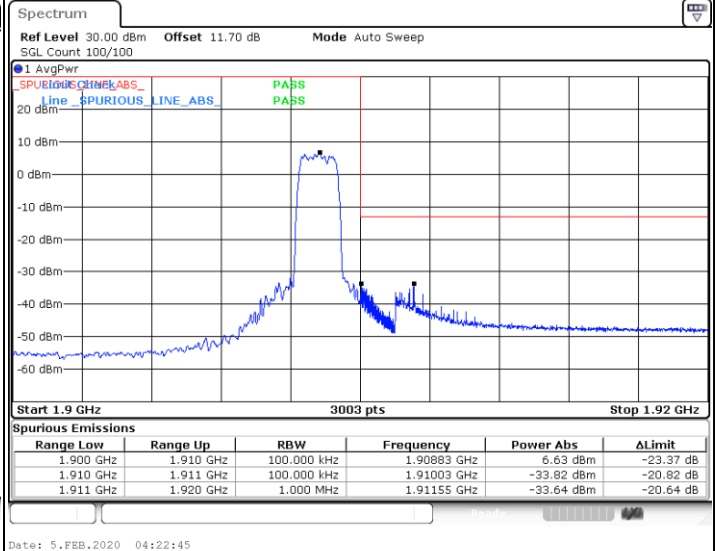
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



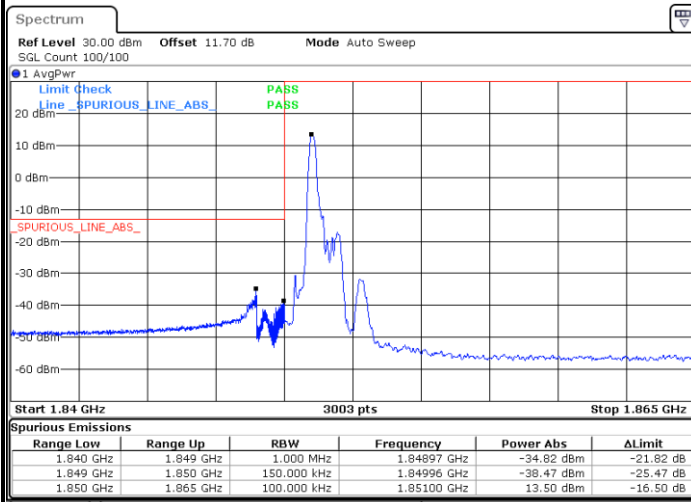
Highest Band Edge / Full RB



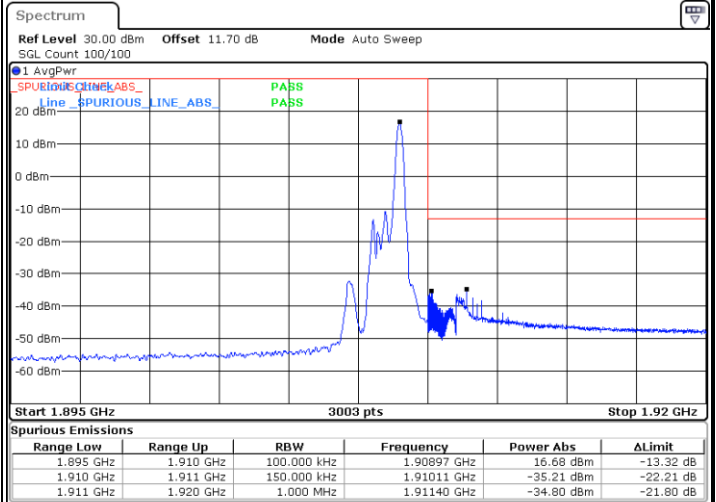


LTE Band 2 / 15MHz / QPSK

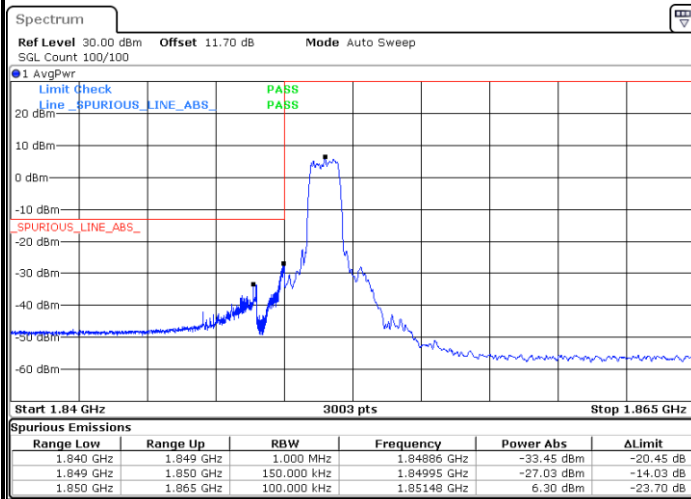
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



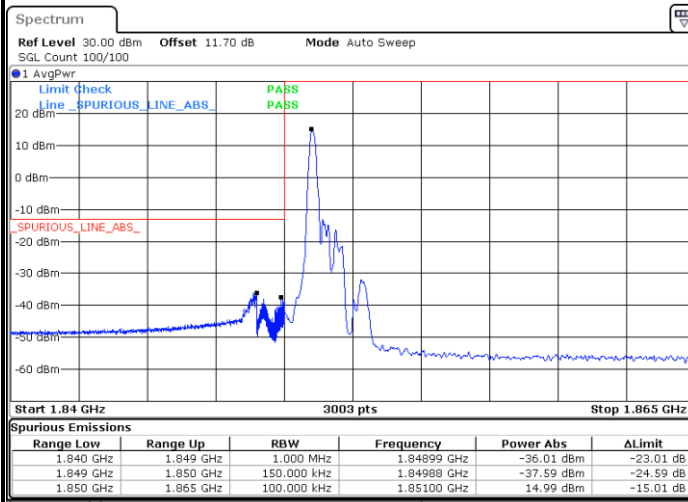
Highest Band Edge / Full RB



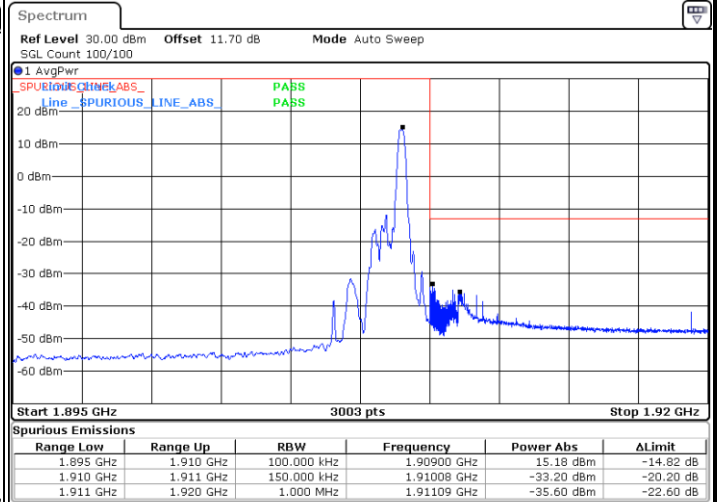


LTE Band 2 / 15MHz / 16QAM

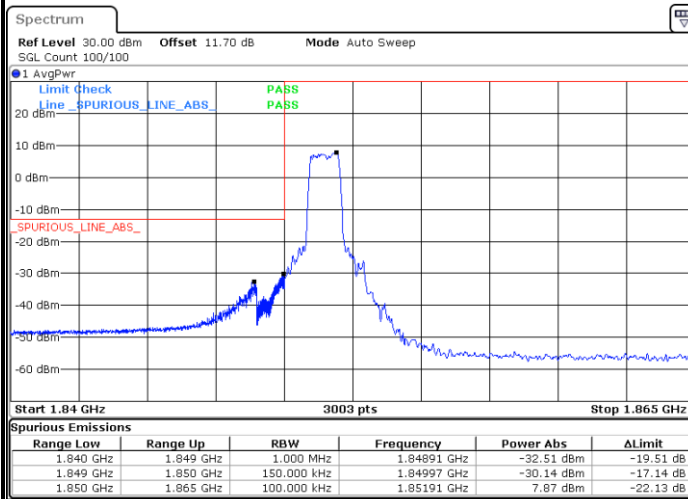
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



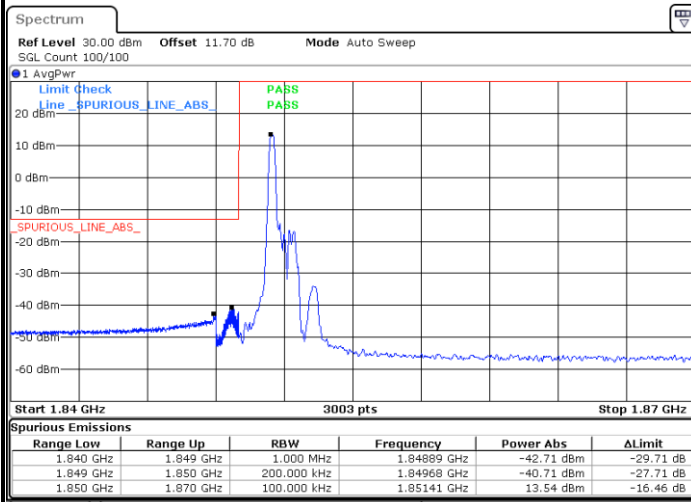
Highest Band Edge / Full RB



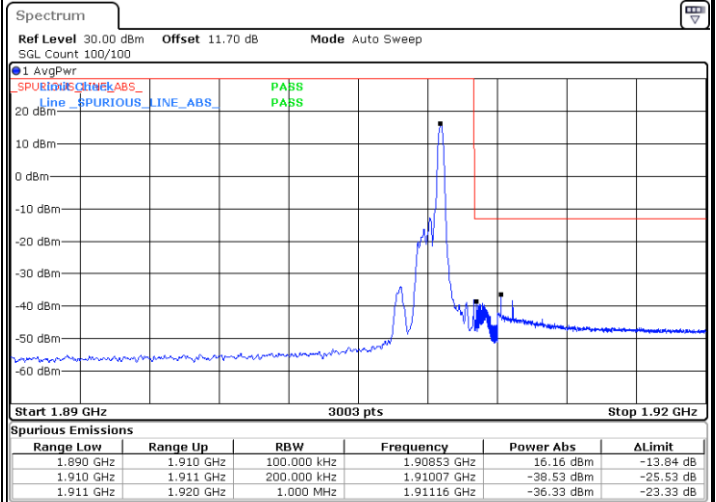


LTE Band 2 / 20MHz / QPSK

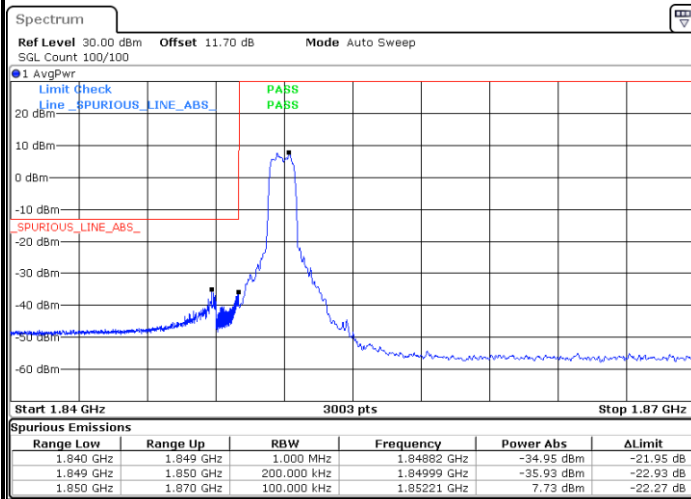
Lowest Band Edge / 1 RB



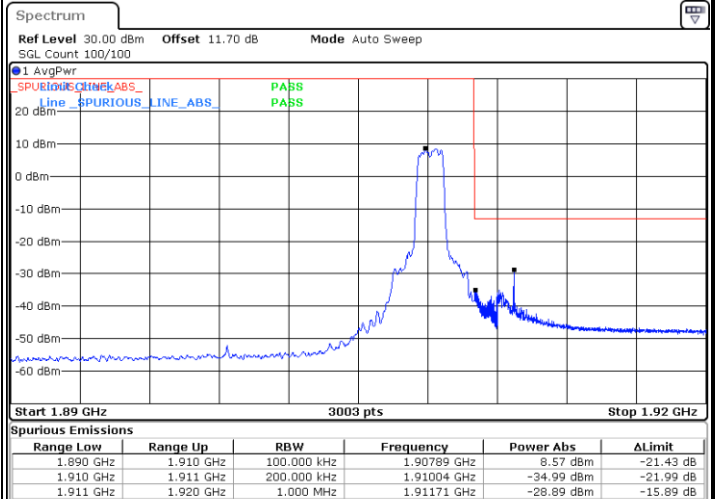
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



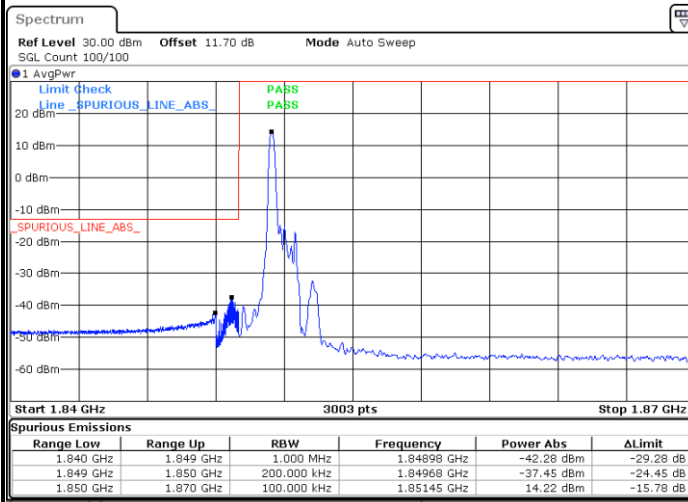
Highest Band Edge / Full RB



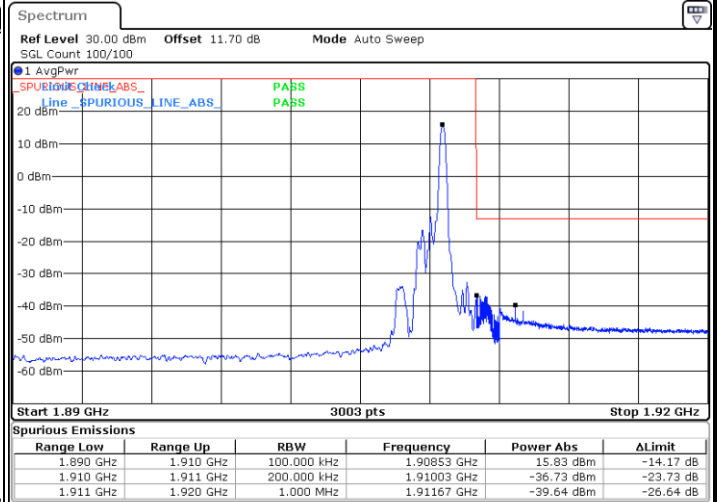


LTE Band 2 / 20MHz / 16QAM

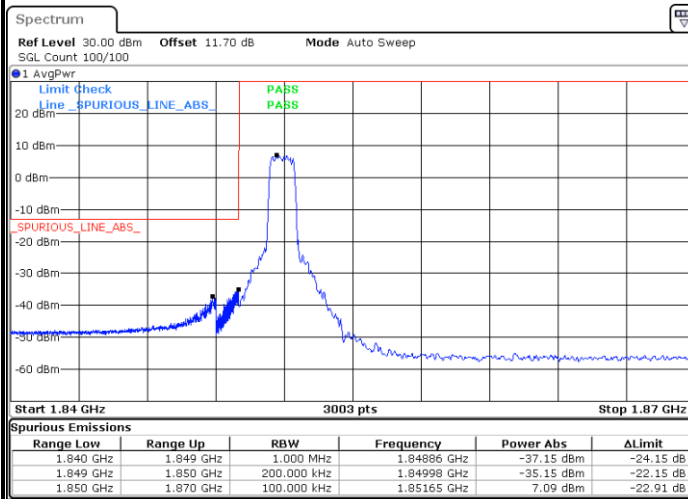
Lowest Band Edge / 1 RB



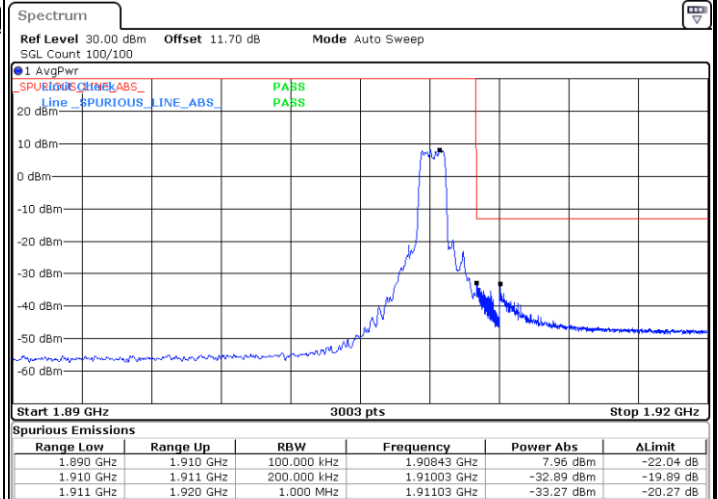
Highest Band Edge / 1 RB

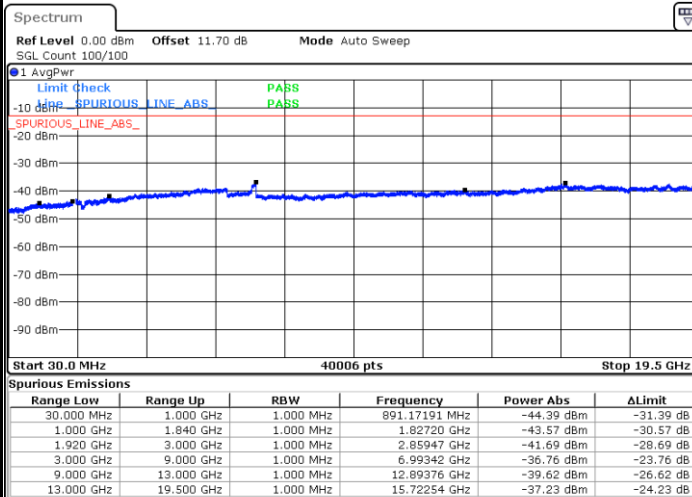
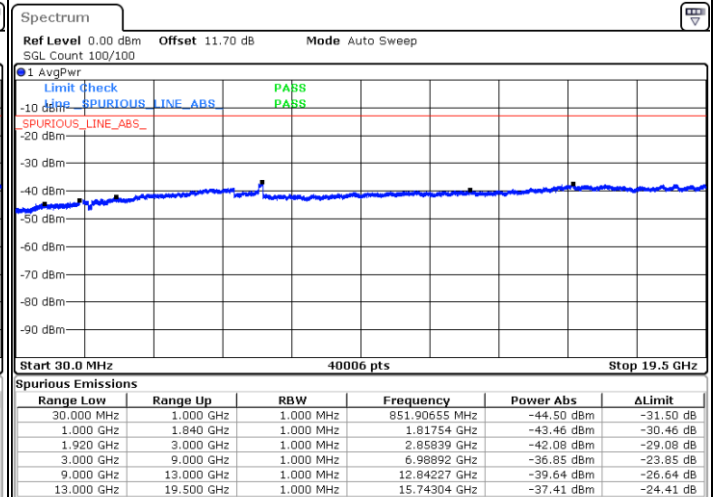
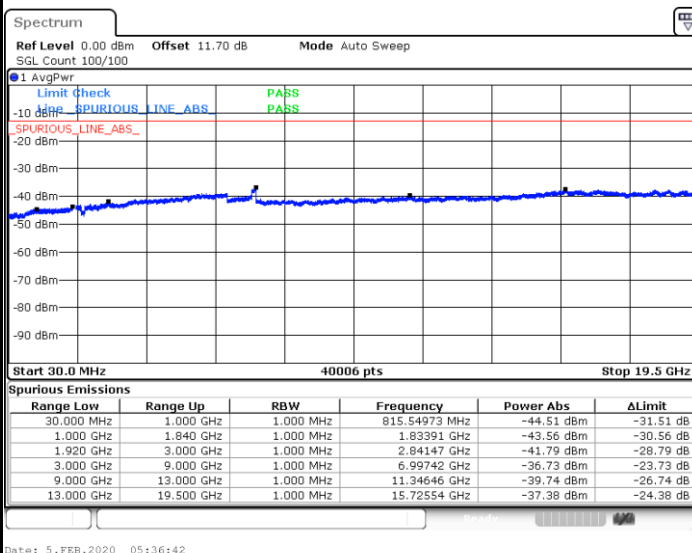
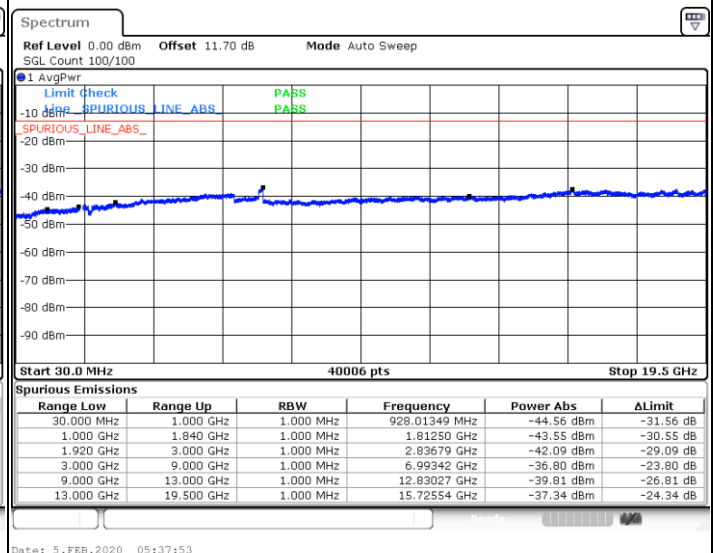


Lowest Band Edge / Full RB



Highest Band Edge / Full RB

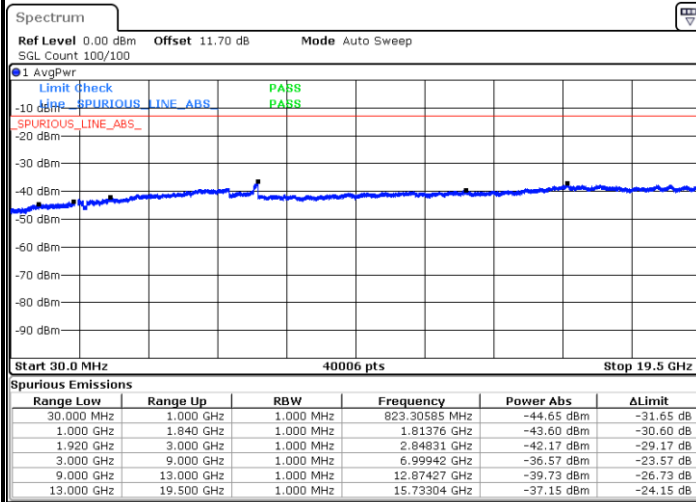


**Conducted Spurious Emission****LTE Band 2 / 1.4MHz****Lowest Channel / QPSK****Lowest Channel / 16QAM****Middle Channel / QPSK****Middle Channel / 16QAM**



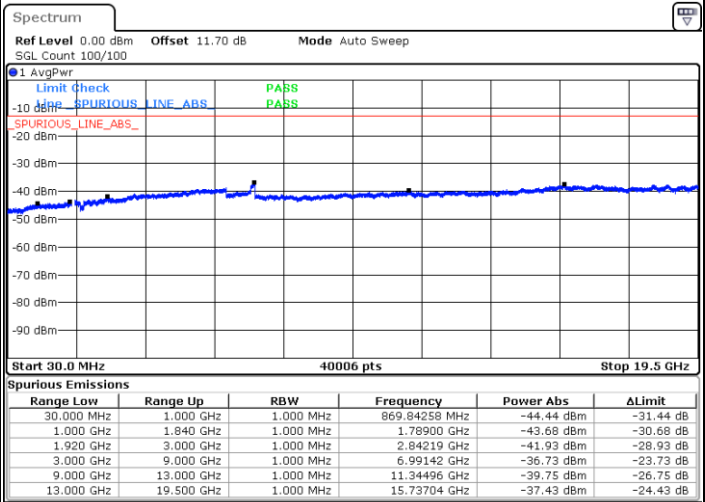
LTE Band 2 / 1.4MHz

Highest Channel / QPSK



Date: 5.FEB.2020 05:54:36

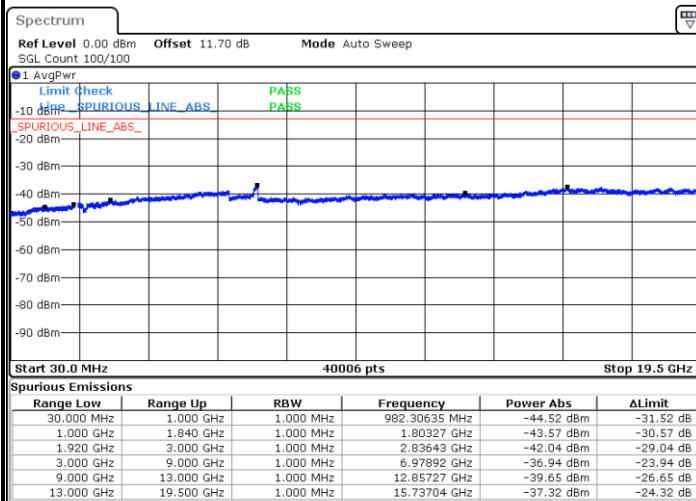
Highest Channel / 16QAM



Date: 5.FEB.2020 05:55:43

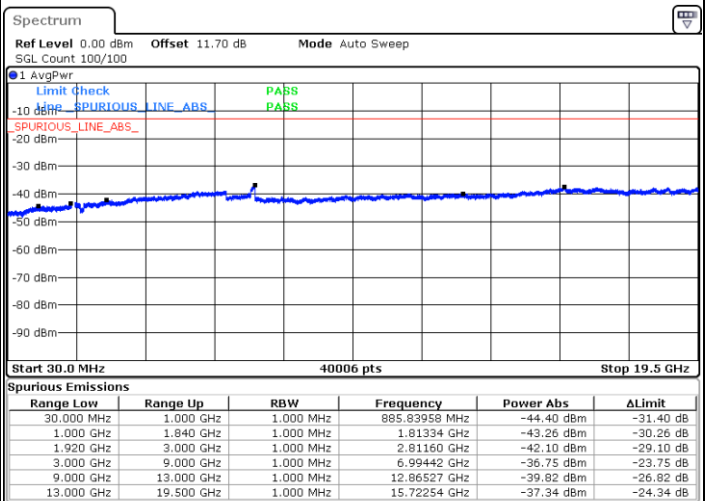
LTE Band 2 / 3MHz

Lowest Channel / QPSK



Date: 5.FEB.2020 02:31:52

Lowest Channel / 16QAM

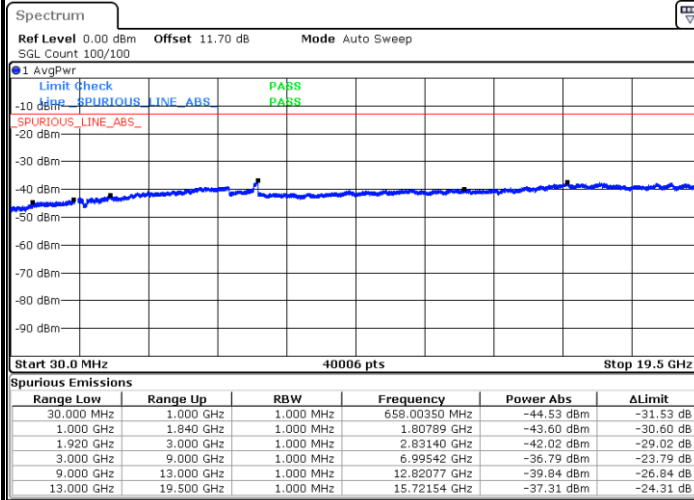


Date: 5.FEB.2020 02:33:05



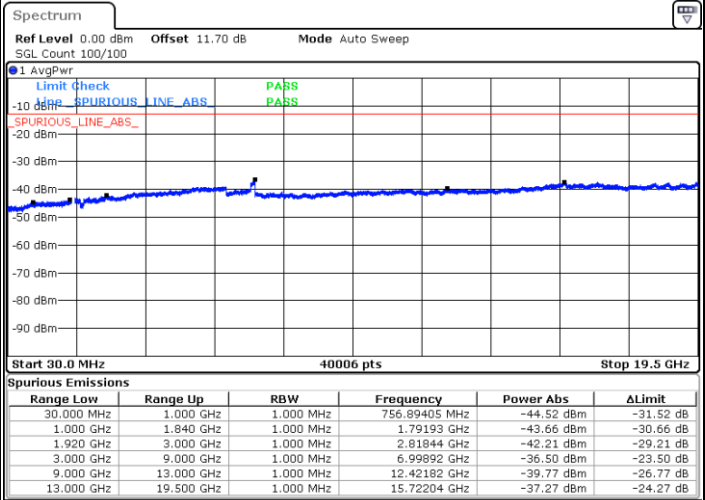
LTE Band 2 / 3MHz

Middle Channel / QPSK



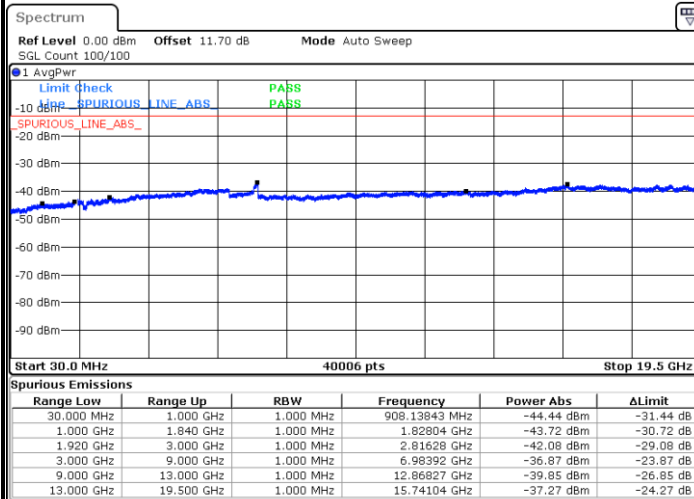
Date: 5.FEB.2020 02:56:33

Middle Channel / 16QAM



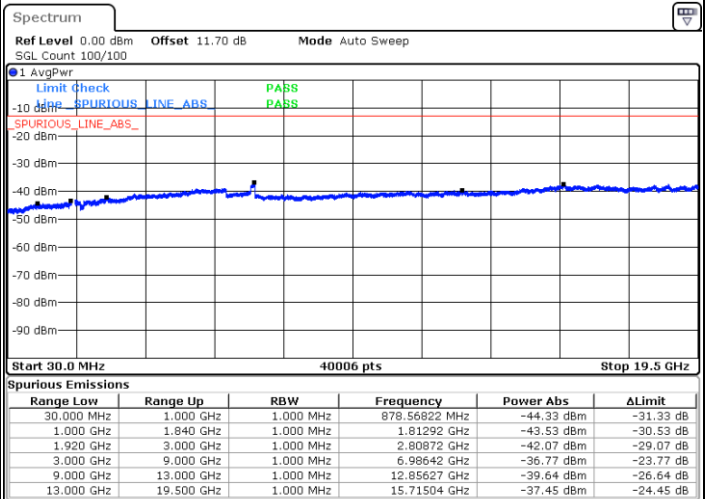
Date: 5.FEB.2020 02:57:43

Highest Channel / QPSK



Date: 5.FEB.2020 03:15:33

Highest Channel / 16QAM

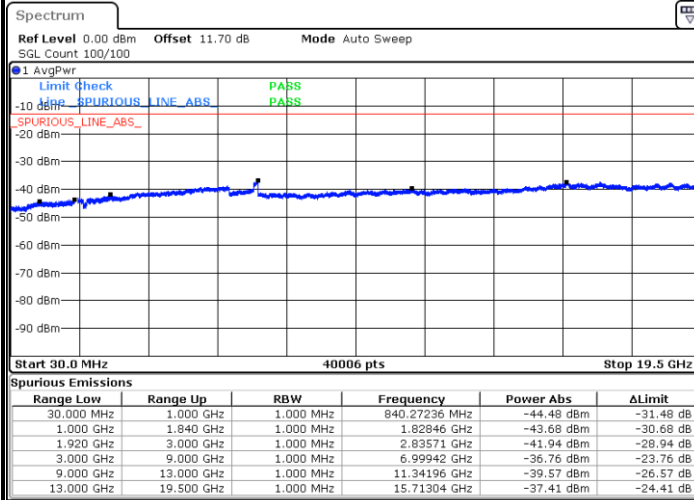


Date: 5.FEB.2020 03:17:27



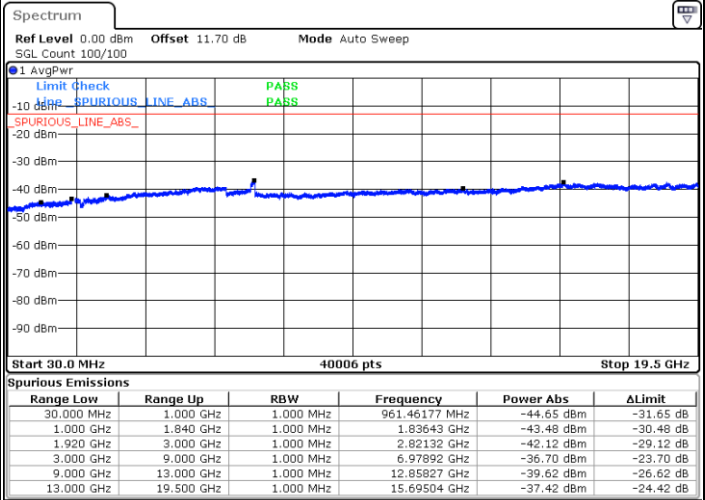
LTE Band 2 / 5MHz

Lowest Channel / QPSK



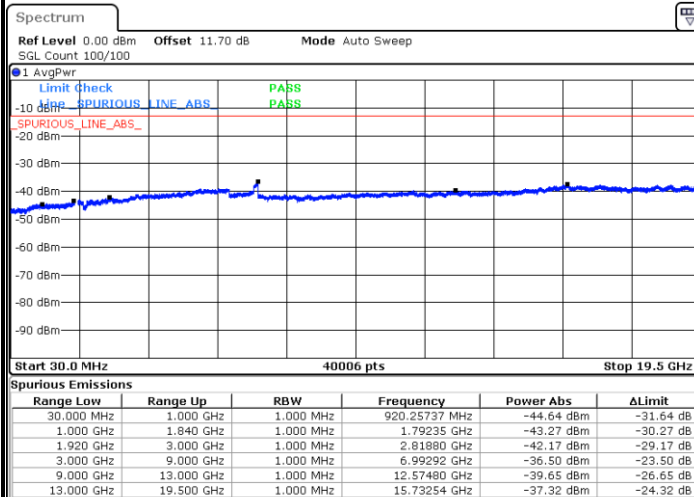
Date: 5.FEB.2020 03:28:32

Lowest Channel / 16QAM



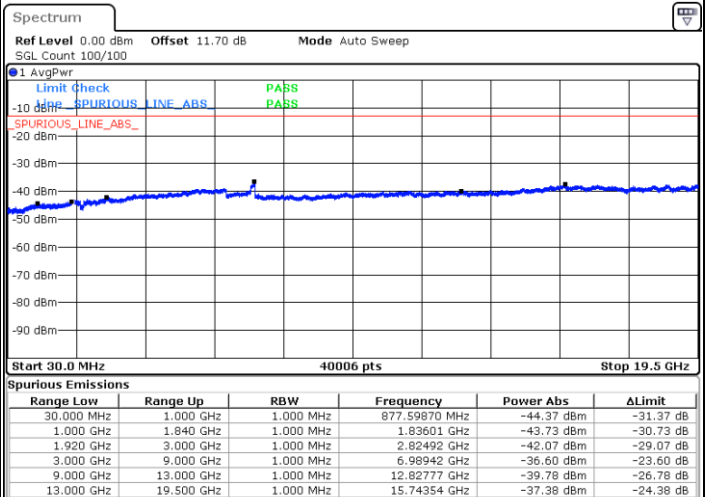
Date: 5.FEB.2020 03:29:43

Middle Channel / QPSK



Date: 5.FEB.2020 03:34:35

Middle Channel / 16QAM

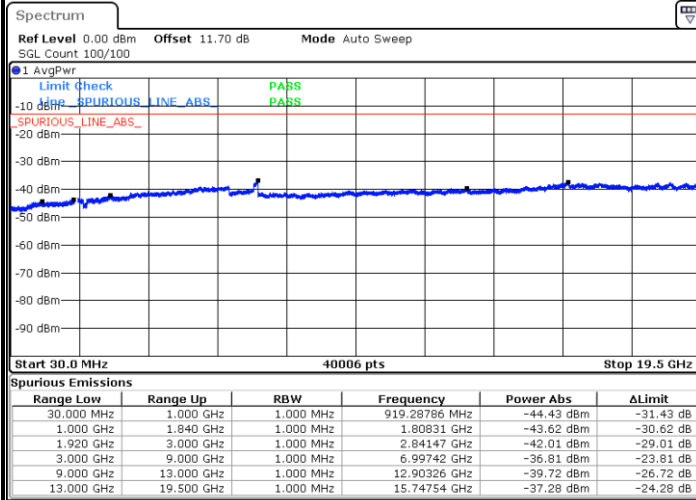


Date: 5.FEB.2020 03:36:43



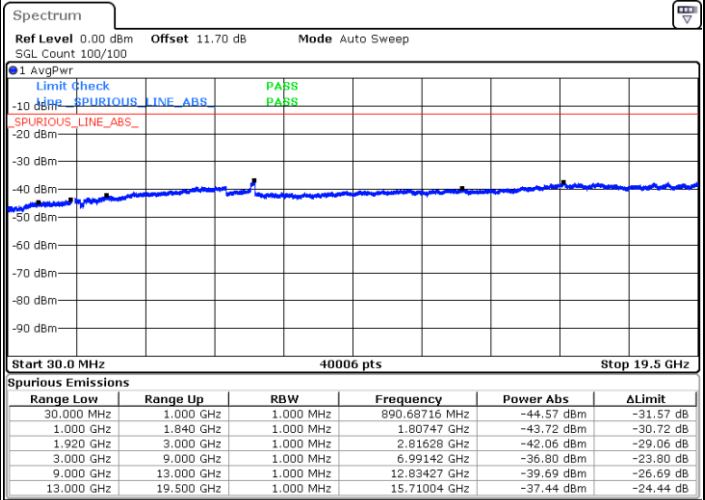
LTE Band 2 / 5MHz

Highest Channel / QPSK



Date: 5.FEB.2020 03:48:37

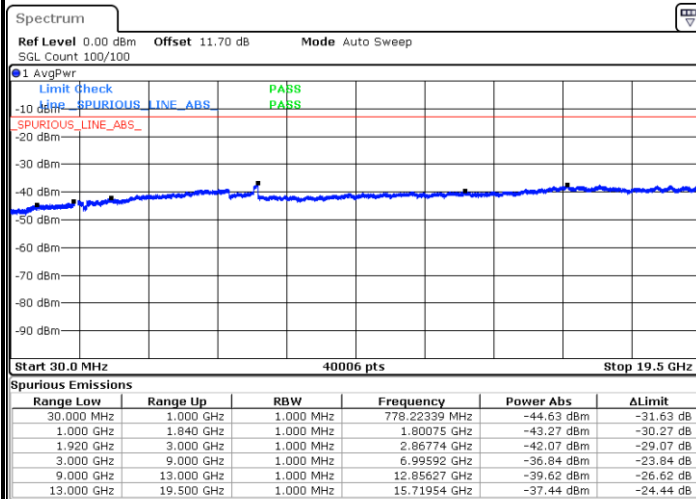
Highest Channel / 16QAM



Date: 5.FEB.2020 03:50:14

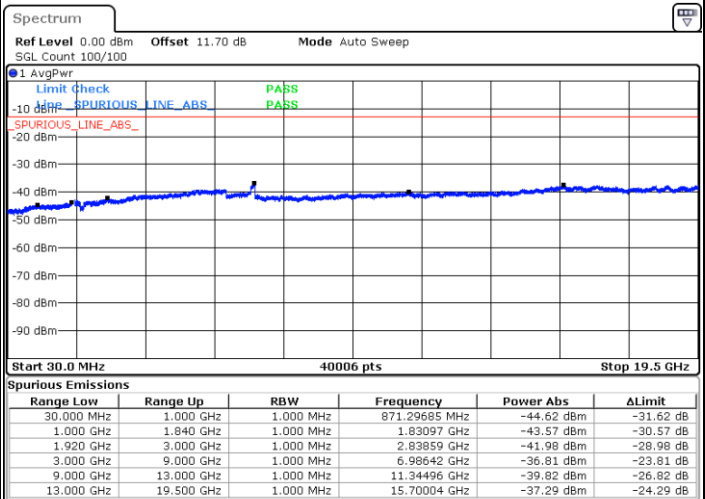
LTE Band 2 / 10MHz

Lowest Channel / QPSK



Date: 5.FEB.2020 03:58:55

Lowest Channel / 16QAM

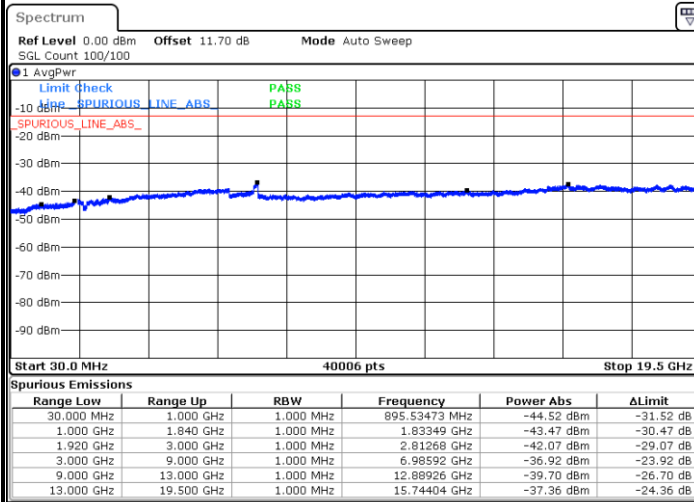


Date: 5.FEB.2020 04:00:11



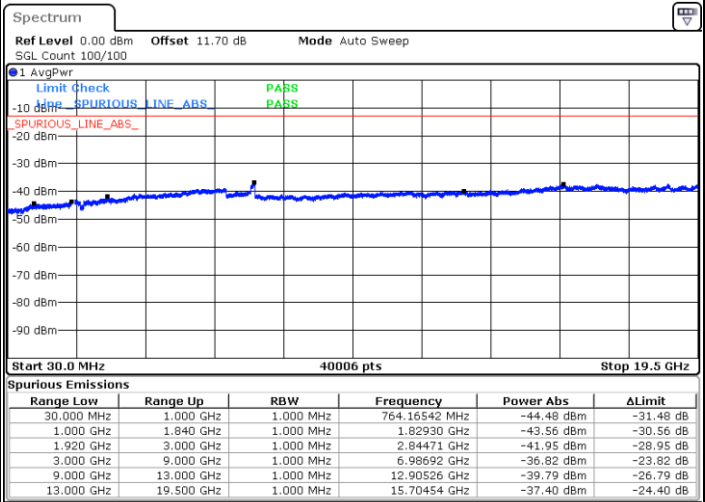
LTE Band 2 / 10MHz

Middle Channel / QPSK



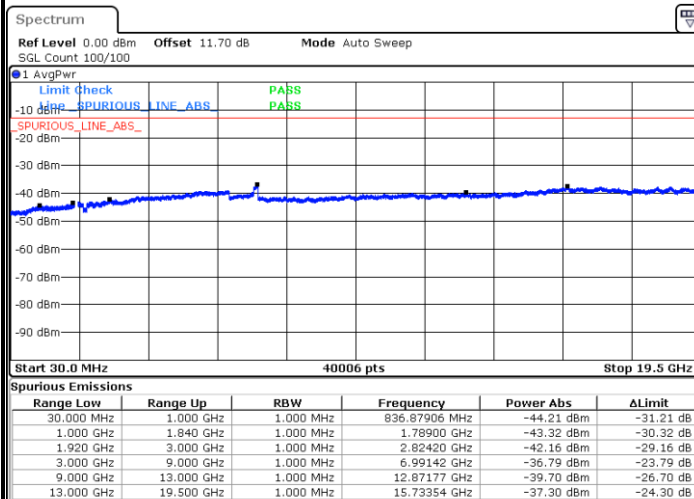
Date: 5.FEB.2020 04:02:57

Middle Channel / 16QAM



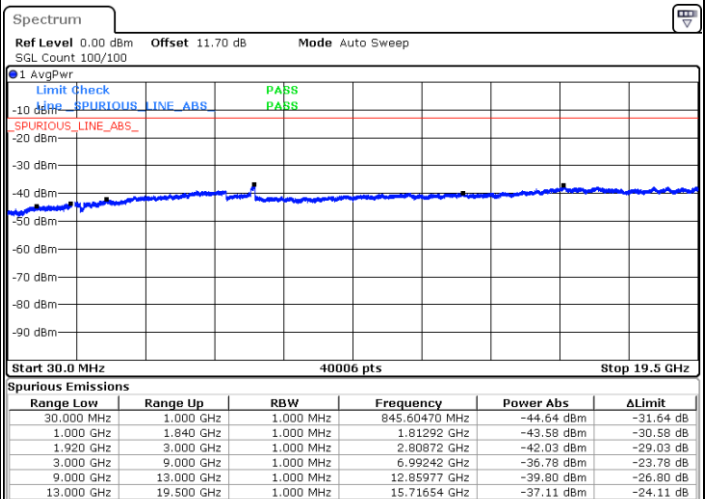
Date: 5.FEB.2020 04:04:08

Highest Channel / QPSK



Date: 5.FEB.2020 04:23:56

Highest Channel / 16QAM

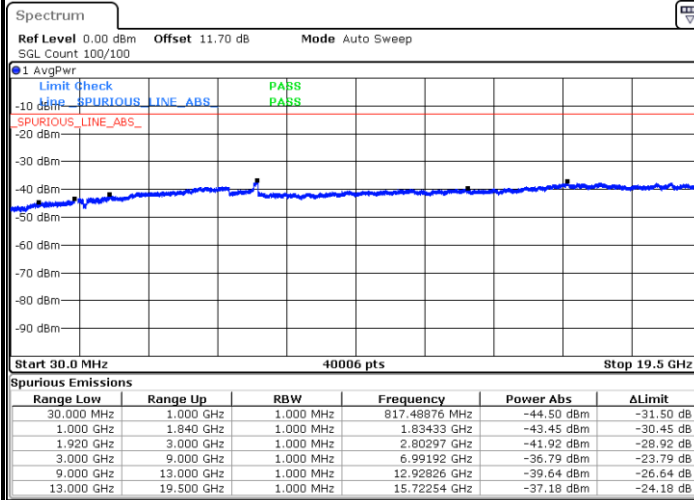


Date: 5.FEB.2020 04:25:01



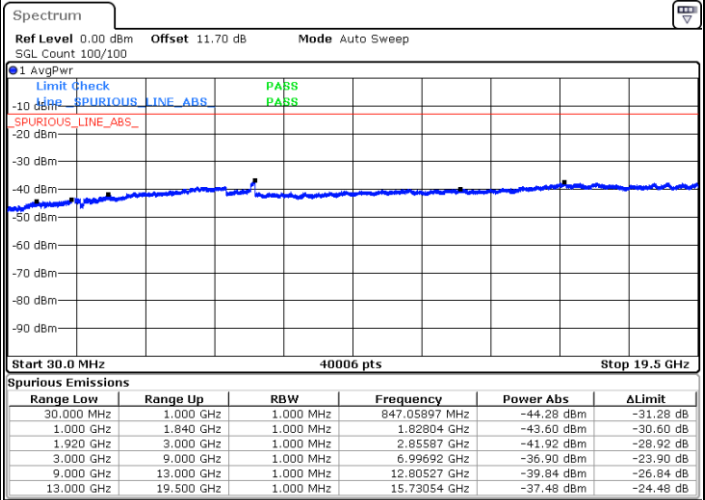
LTE Band 2 / 15MHz

Lowest Channel / QPSK



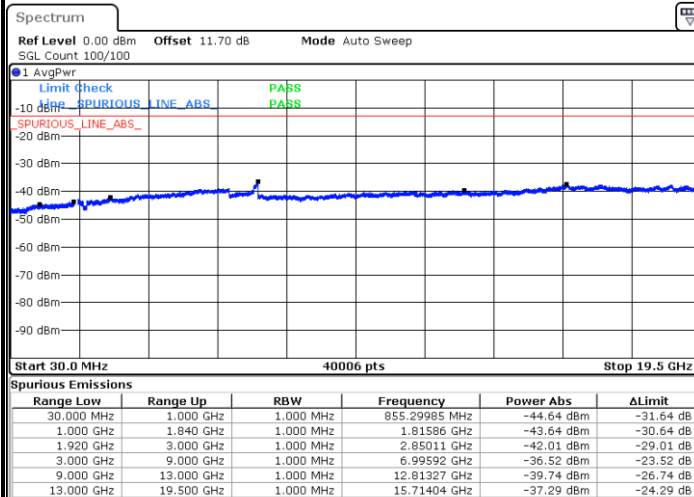
Date: 5.FEB.2020 04:32:55

Lowest Channel / 16QAM



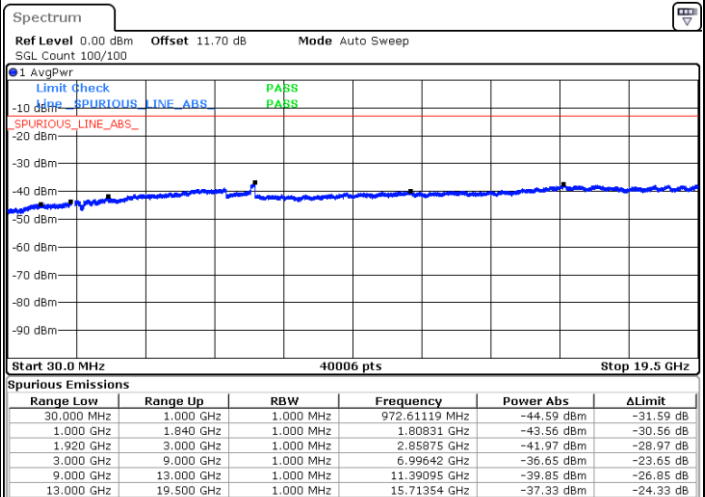
Date: 5.FEB.2020 04:34:03

Middle Channel / QPSK



Date: 5.FEB.2020 04:36:38

Middle Channel / 16QAM

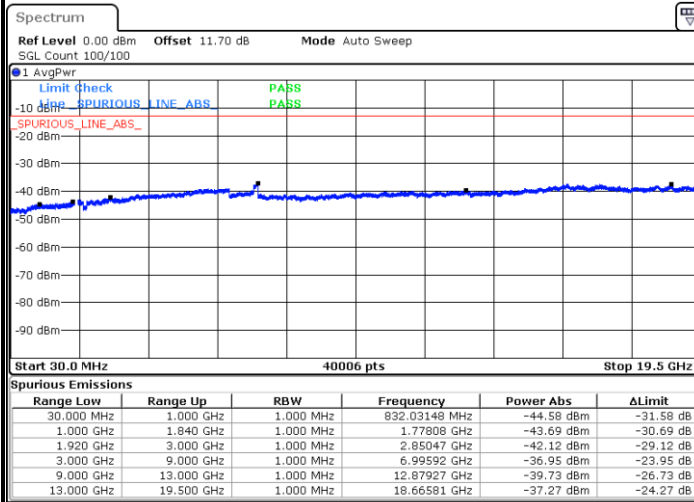


Date: 5.FEB.2020 04:37:44



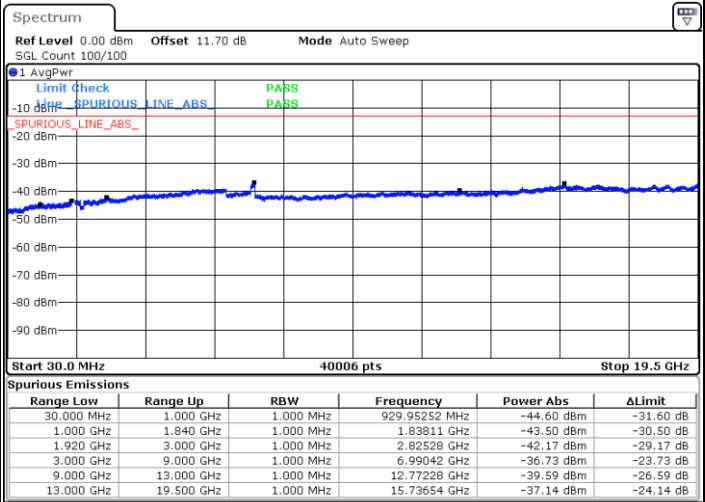
LTE Band 2 / 15MHz

Highest Channel / QPSK



Date: 5.FEB.2020 04:50:29

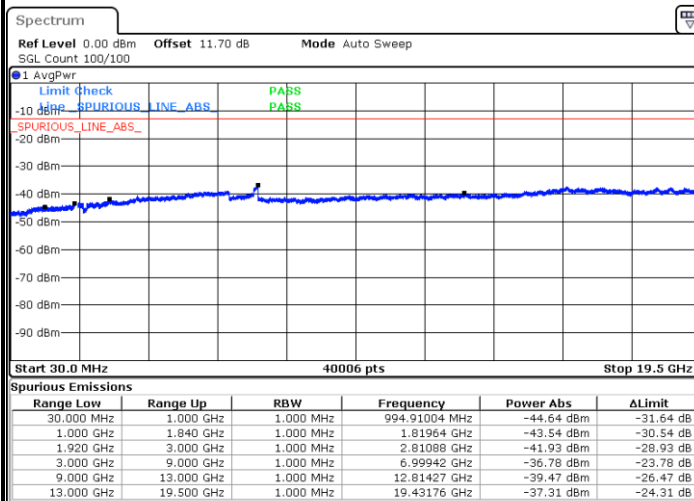
Highest Channel / 16QAM



Date: 5.FEB.2020 04:51:32

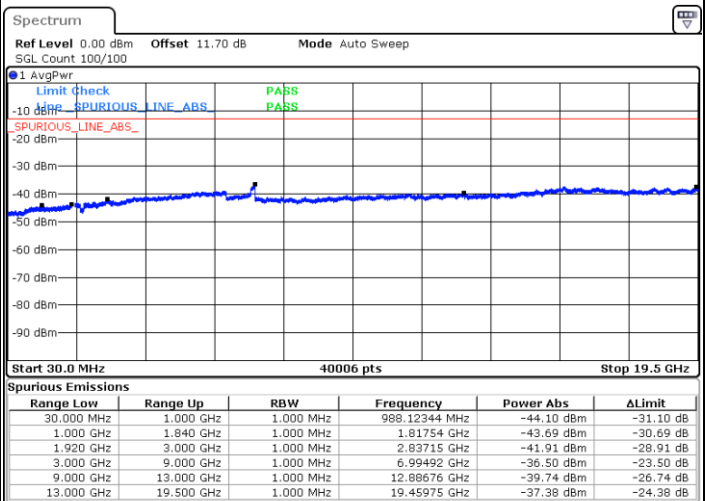
LTE Band 2 / 20MHz

Lowest Channel / QPSK



Date: 5.FEB.2020 04:59:38

Lowest Channel / 16QAM

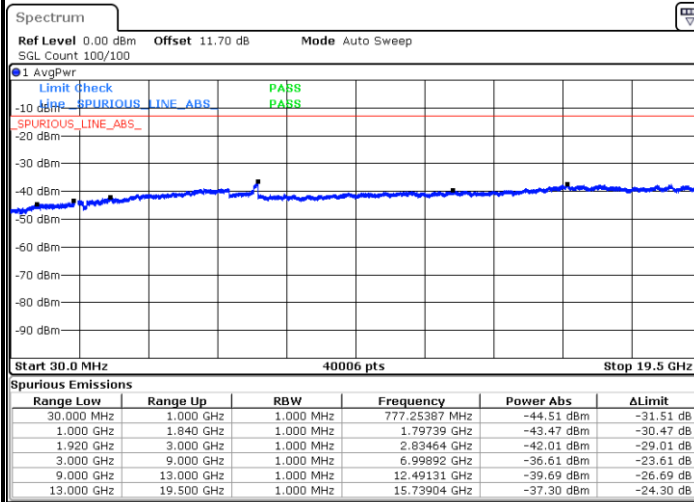


Date: 5.FEB.2020 05:00:58



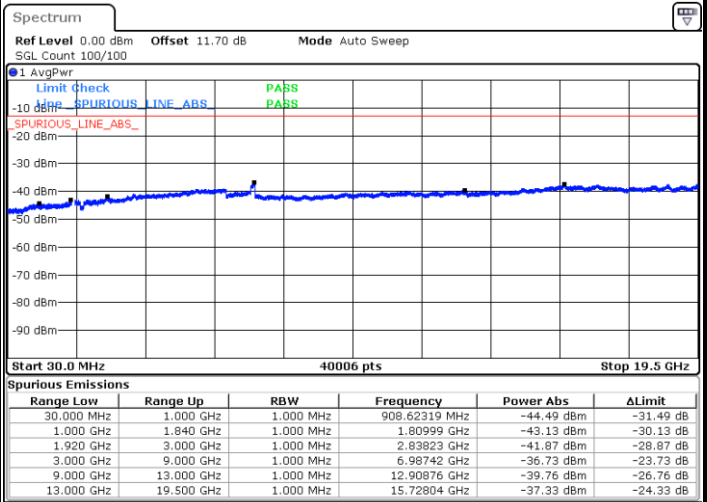
LTE Band 2 / 20MHz

Middle Channel / QPSK



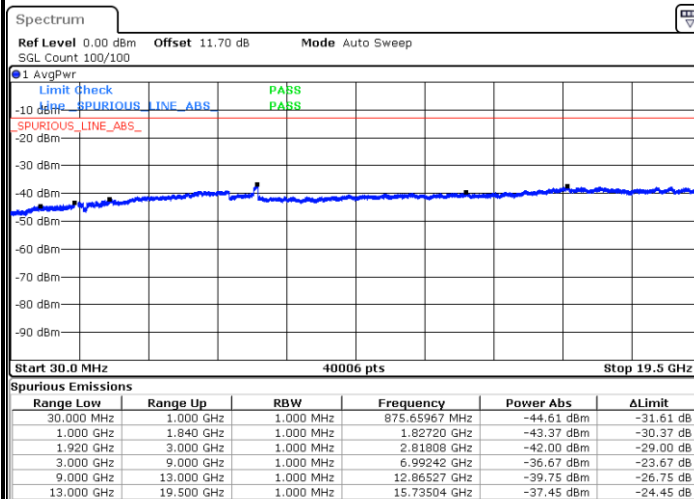
Date: 5.FEB.2020 05:04:11

Middle Channel / 16QAM



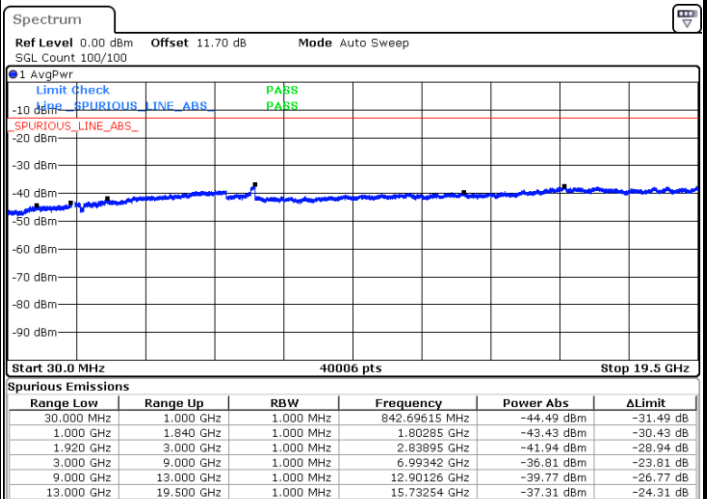
Date: 5.FEB.2020 05:05:45

Highest Channel / QPSK



Date: 5.FEB.2020 05:14:22

Highest Channel / 16QAM



Date: 5.FEB.2020 05:15:37

Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0047	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0005	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0055	
0	Normal Voltage	0.0011	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0037	
-30	Normal Voltage	0.0075	
20	Maximum Voltage	0.0036	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0038	

Note:

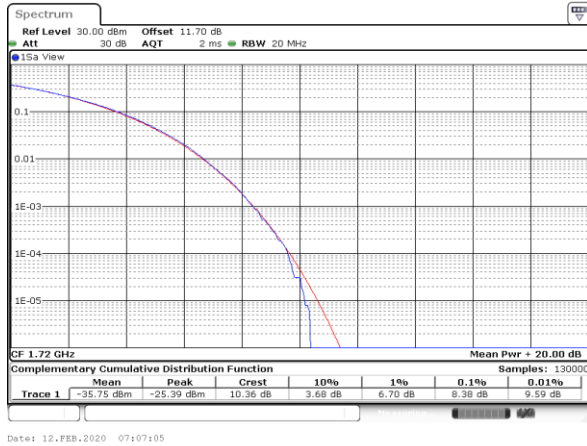
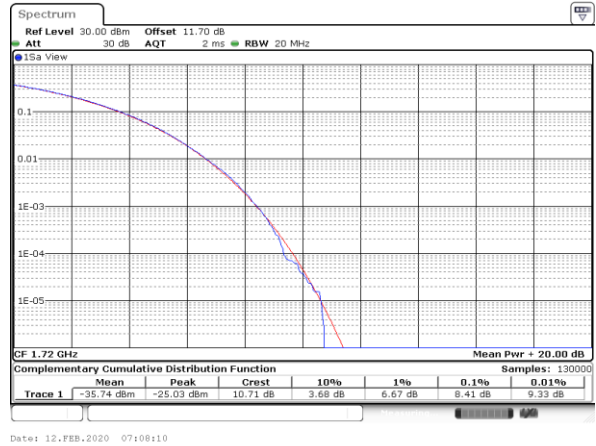
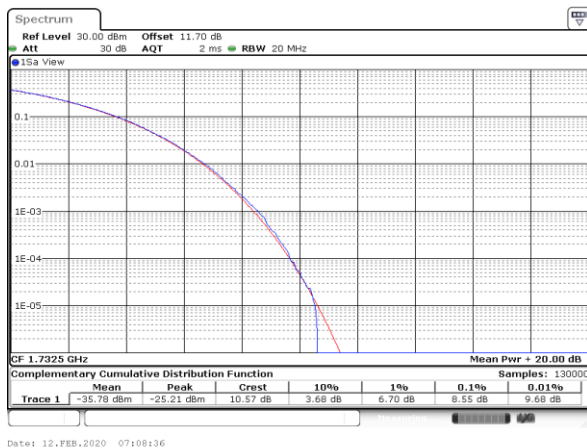
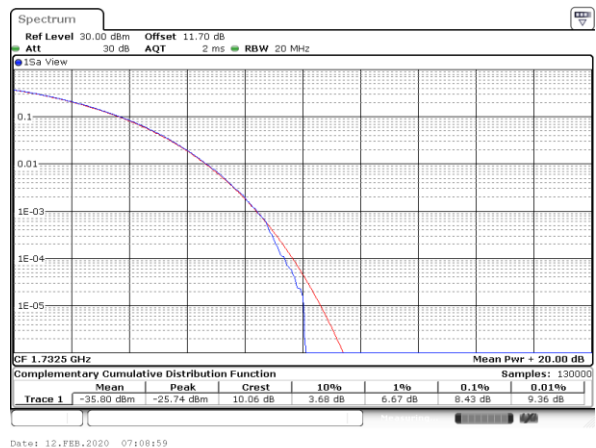
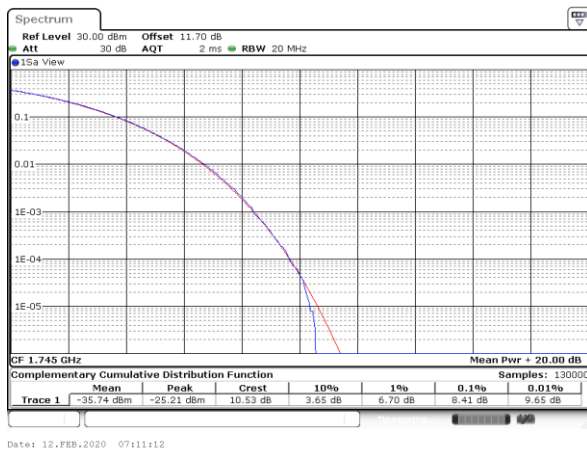
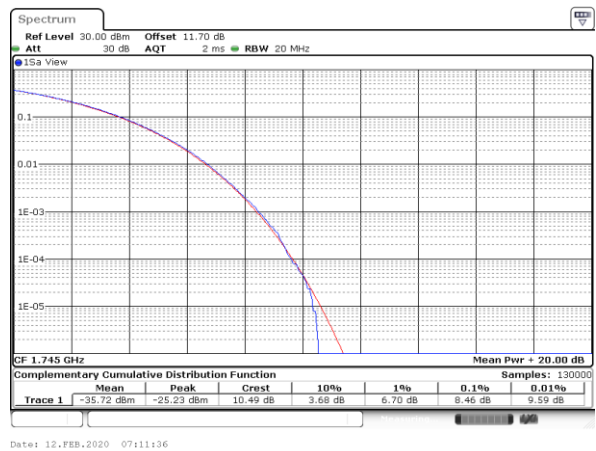
1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.2 V.
2. The frequency fundamental emissions stay within the authorized frequency block.

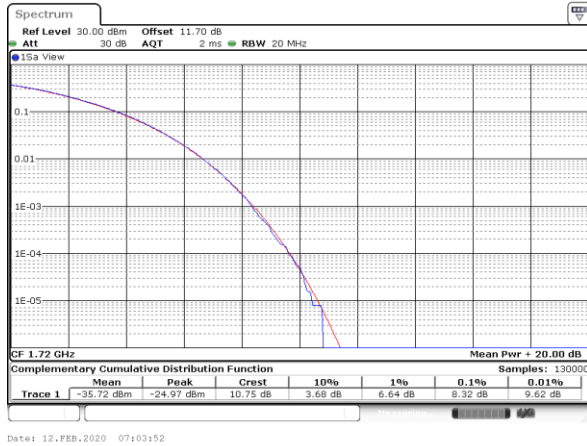
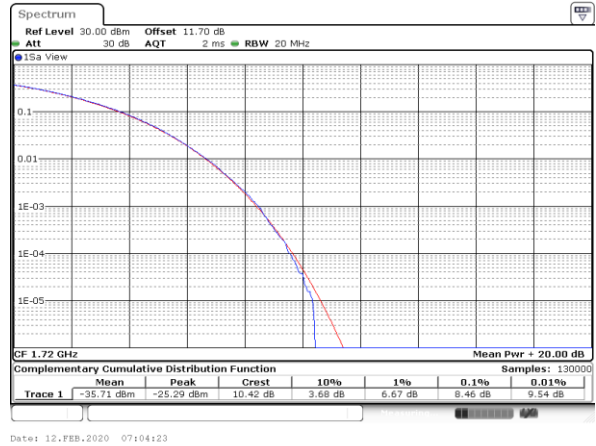
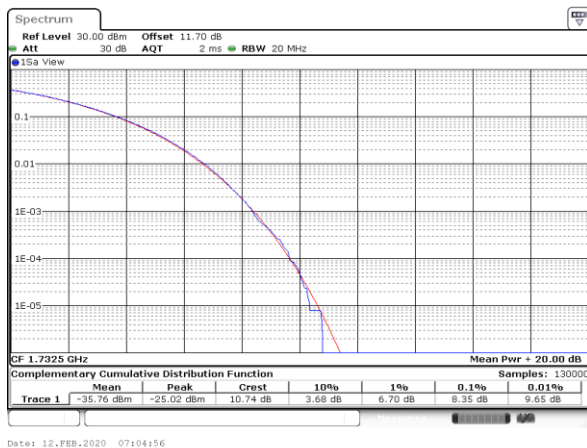
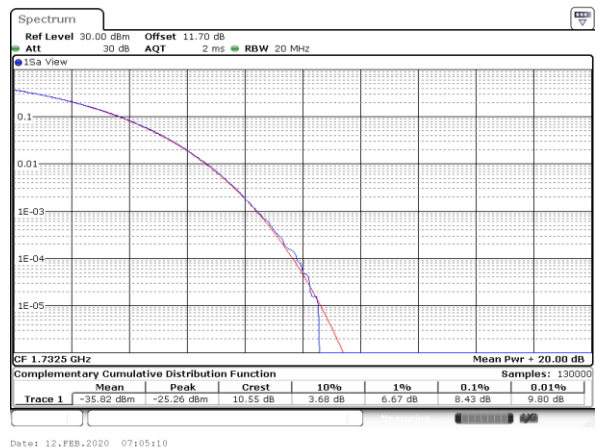
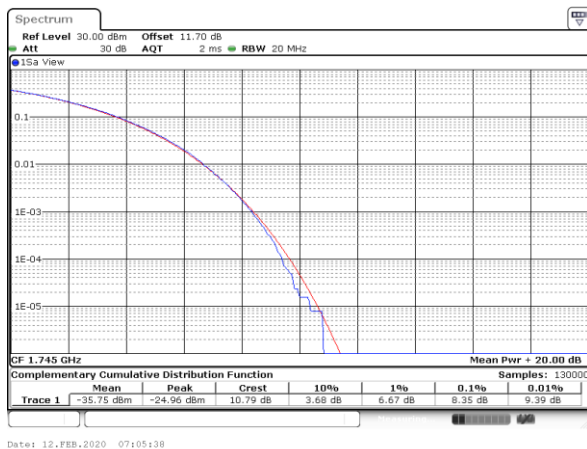
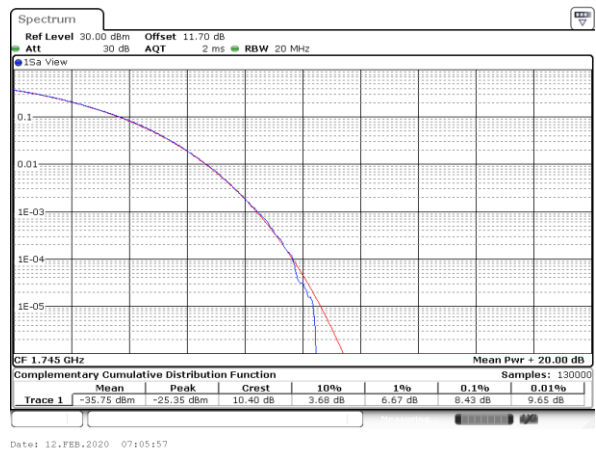


LTE Band 4

Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	8.38	8.41	8.32	8.46	PASS
Middle CH	8.55	8.43	8.35	8.43	
Highest CH	8.41	8.46	8.35	8.43	

LTE Band 4 / 20MHz / QPSK
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB


LTE Band 4 / 20MHz / 16QAM
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB




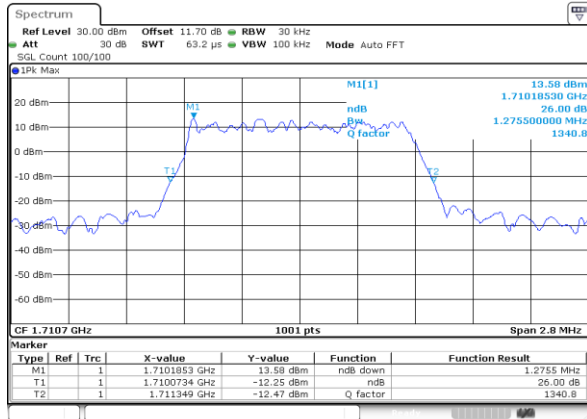
26dB Bandwidth

Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.28	1.28	1.38	1.44	1.38	1.39	1.94	1.78	2.67	1.92	1.92	1.84
Middle CH	1.24	1.32	1.38	1.40	1.36	1.39	1.82	1.74	2.01	1.98	2.44	2.00
Highest CH	1.29	1.28	1.43	1.42	1.38	1.36	1.78	1.84	1.83	1.89	1.96	2.20

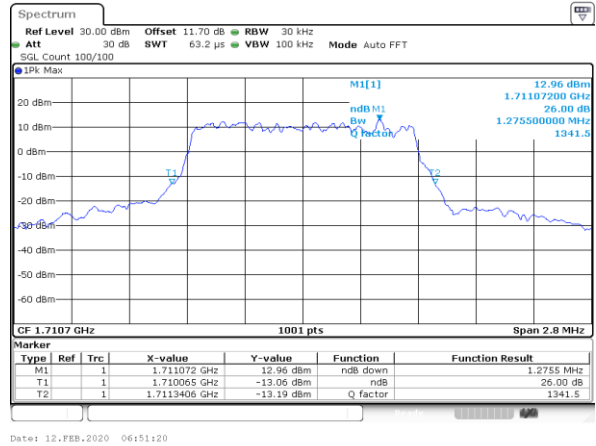


LTE Band 4

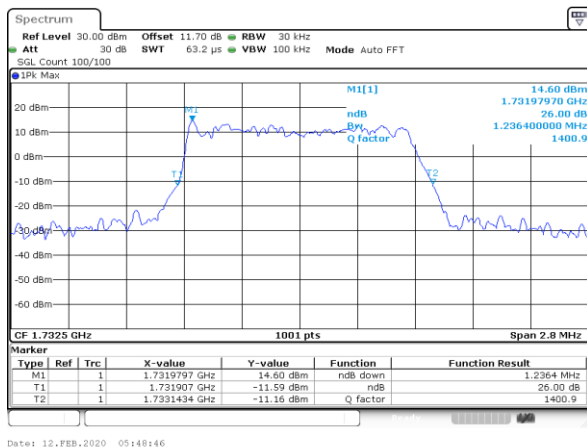
Lowest Channel / 1.4MHz / QPSK



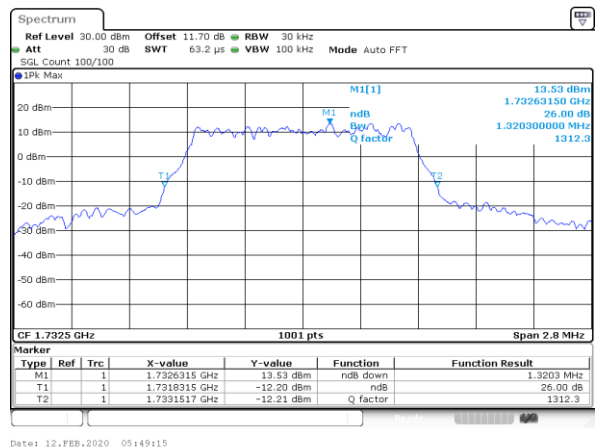
Lowest Channel / 1.4MHz / 16QAM



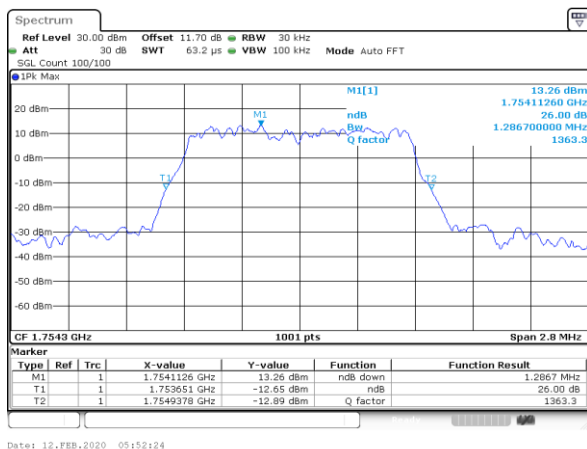
Middle Channel / 1.4MHz / QPSK



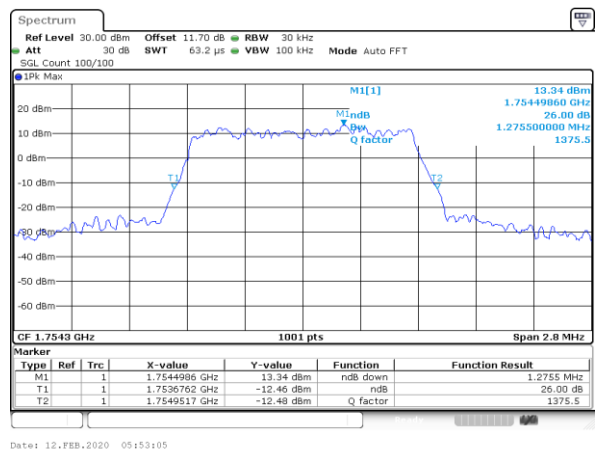
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



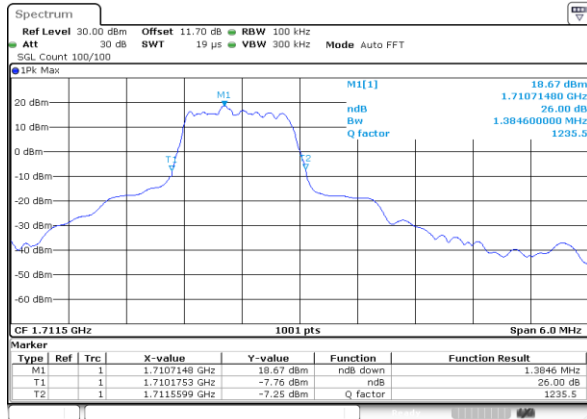
Highest Channel / 1.4MHz / 16QAM





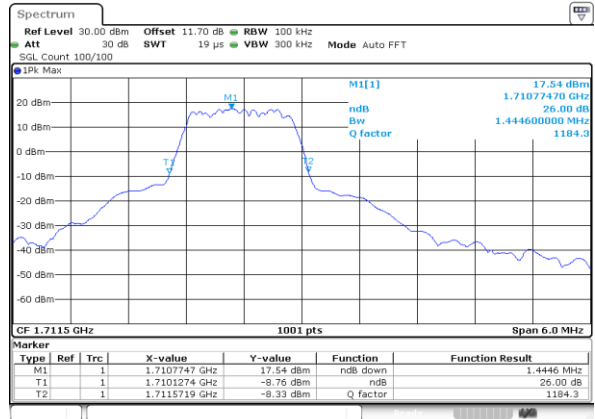
LTE Band 4

Lowest Channel / 3MHz / QPSK



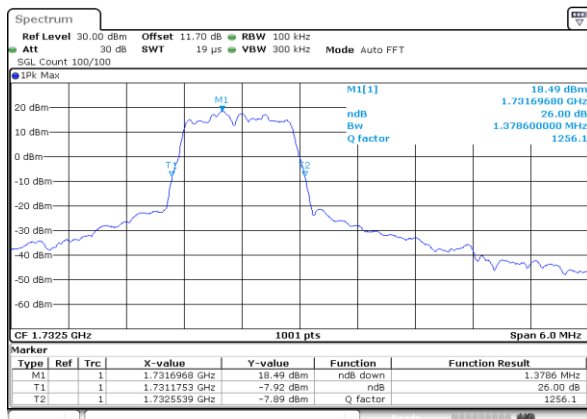
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Lowest Channel / 3MHz / 16QAM



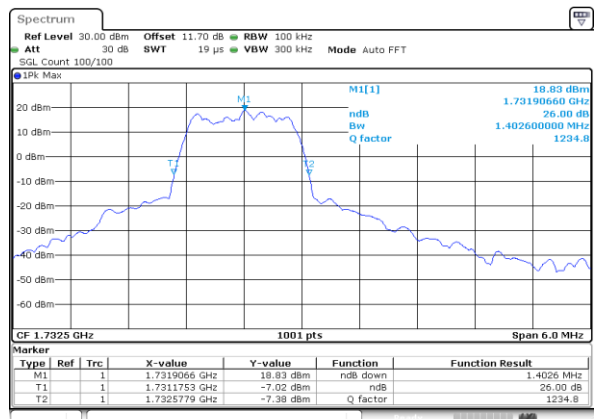
Date: 12.FEB.2020 06:19:09

Middle Channel / 3MHz / QPSK



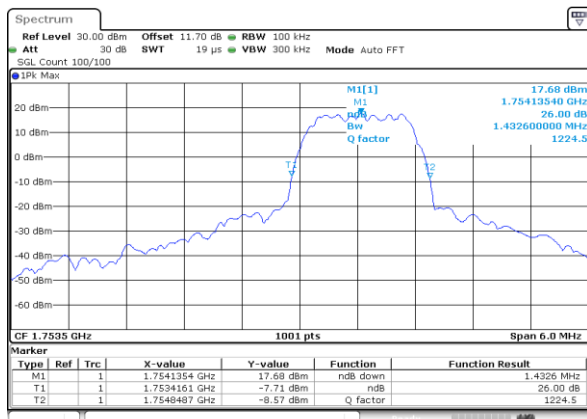
Date: 12.FEB.2020 02:38:08

Middle Channel / 3MHz / 16QAM



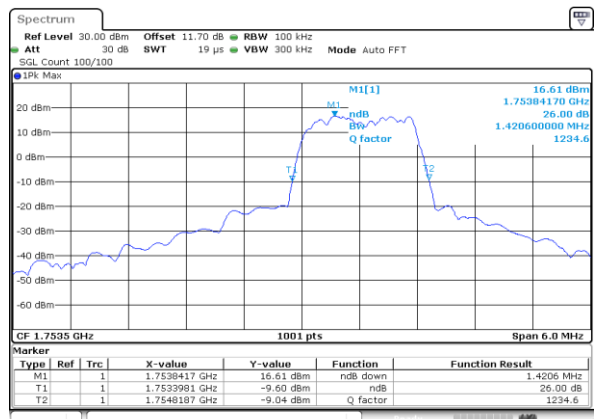
Date: 12.FEB.2020 02:38:24

Highest Channel / 3MHz / QPSK



Date: 12.FEB.2020 03:02:52

Highest Channel / 3MHz / 16QAM

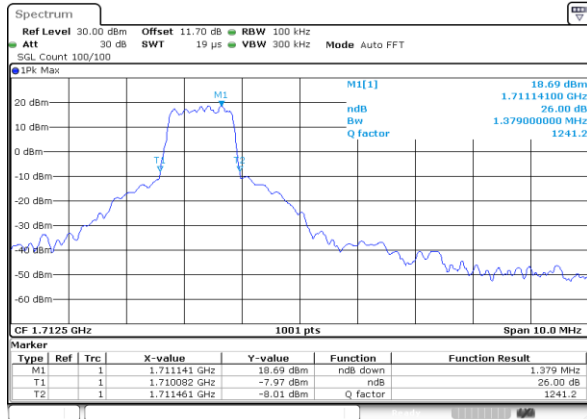


Date: 12.FEB.2020 03:03:07



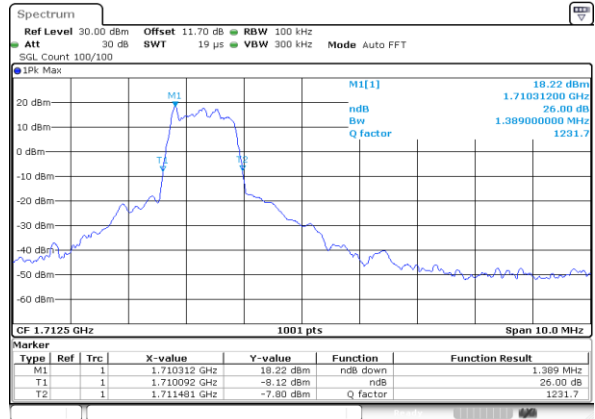
LTE Band 4

Lowest Channel / 5MHz / QPSK



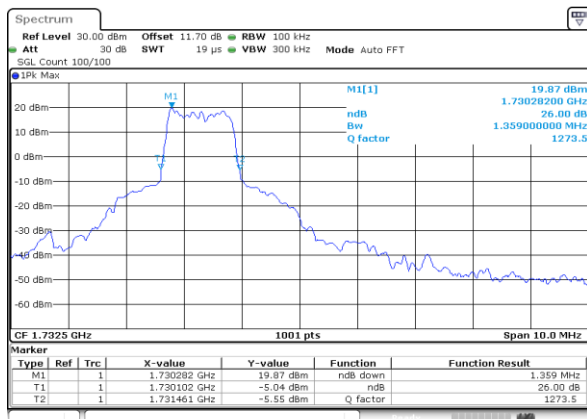
Date: 12.FEB.2020 03:11:59

Lowest Channel / 5MHz / 16QAM



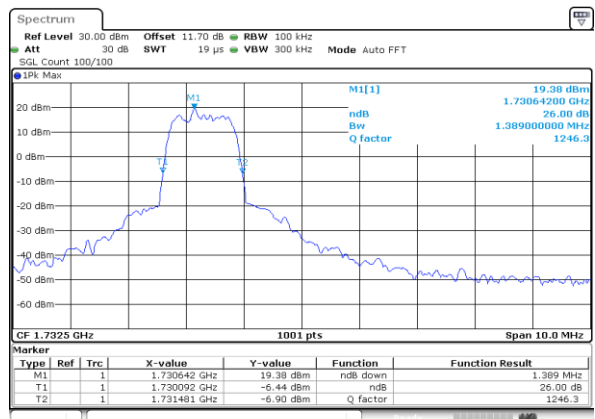
Date: 12.FEB.2020 03:12:18

Middle Channel / 5MHz / QPSK



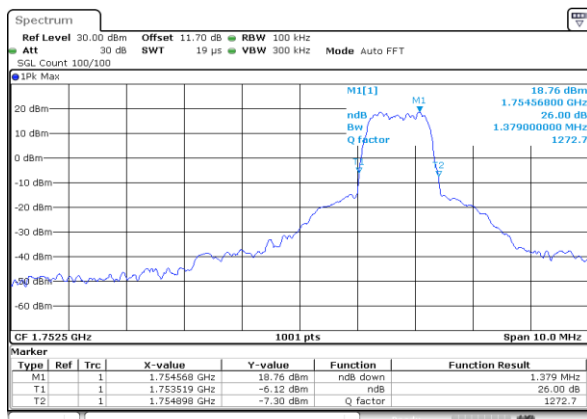
Date: 12.FEB.2020 03:20:32

Middle Channel / 5MHz / 16QAM



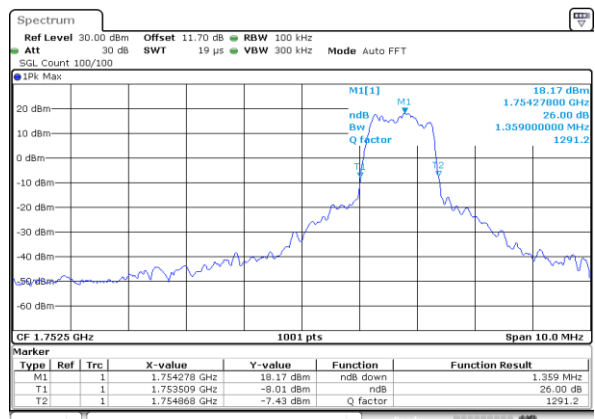
Date: 12.FEB.2020 03:20:49

Highest Channel / 5MHz / QPSK



Date: 12.FEB.2020 03:24:05

Highest Channel / 5MHz / 16QAM

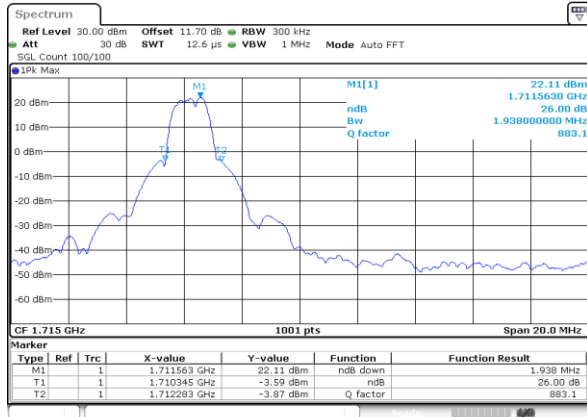


Date: 12.FEB.2020 03:24:22

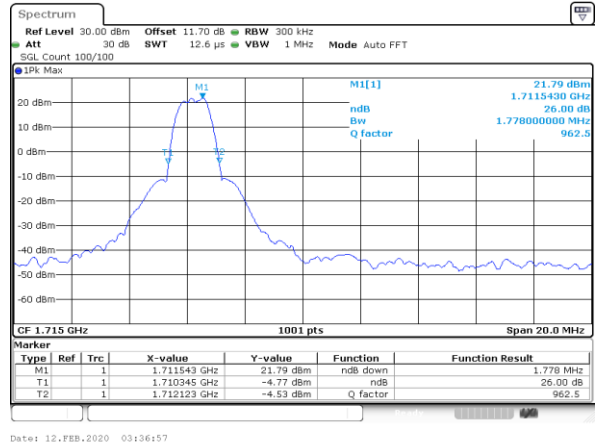


LTE Band 4

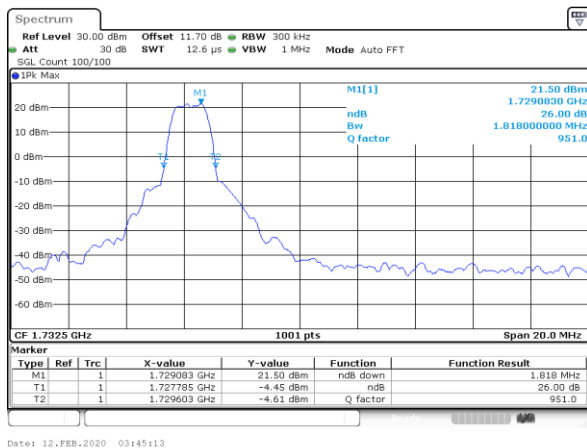
Lowest Channel / 10MHz / QPSK



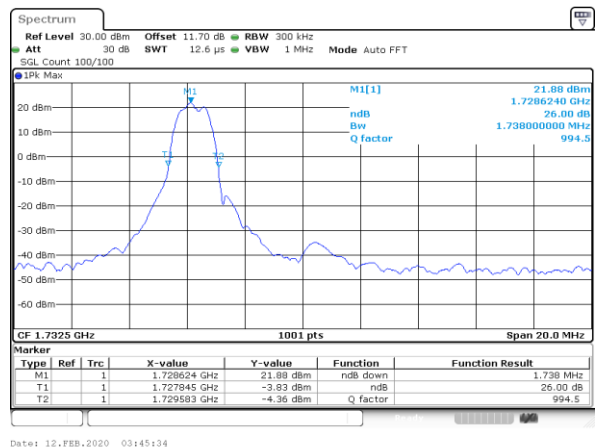
Lowest Channel / 10MHz / 16QAM



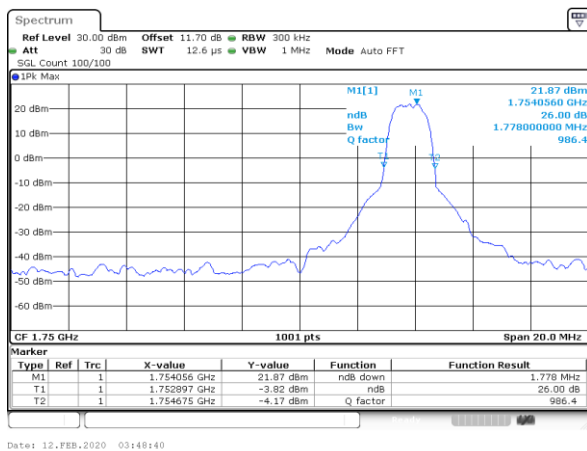
Middle Channel / 10MHz / QPSK



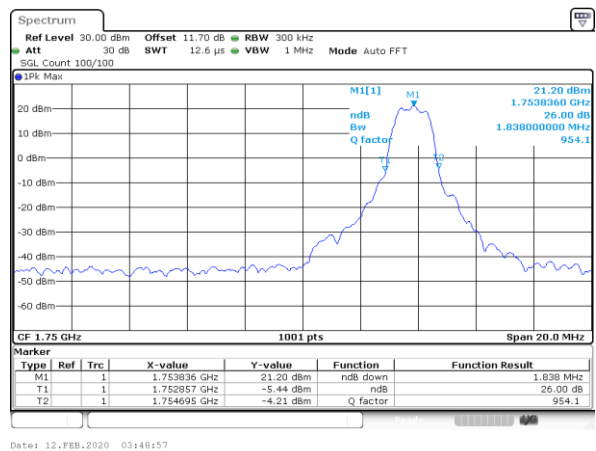
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



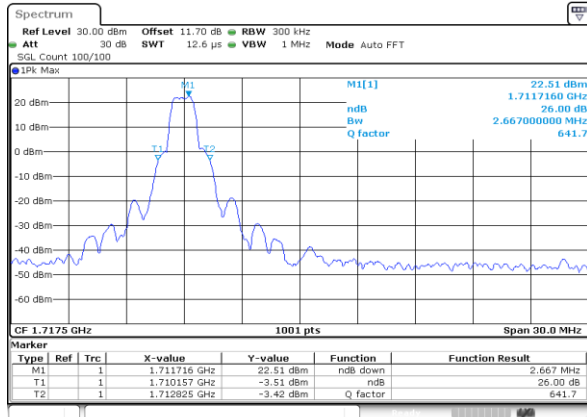
Highest Channel / 10MHz / 16QAM





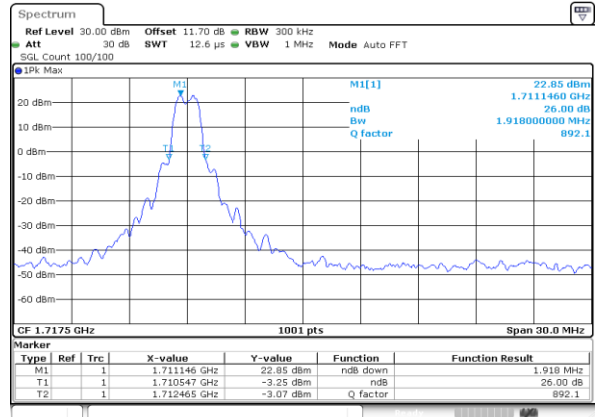
LTE Band 4

Lowest Channel / 15MHz / QPSK



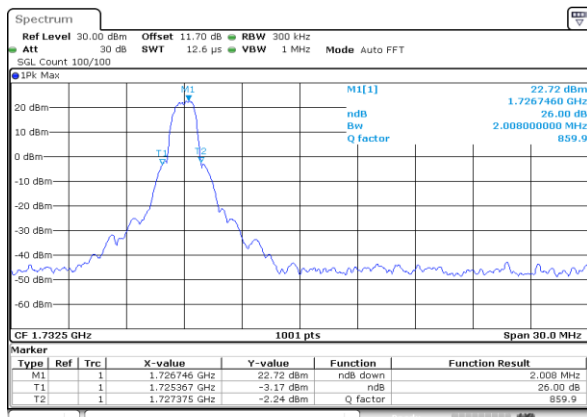
Date: 12.FEB.2020 03:57:36

Lowest Channel / 15MHz / 16QAM



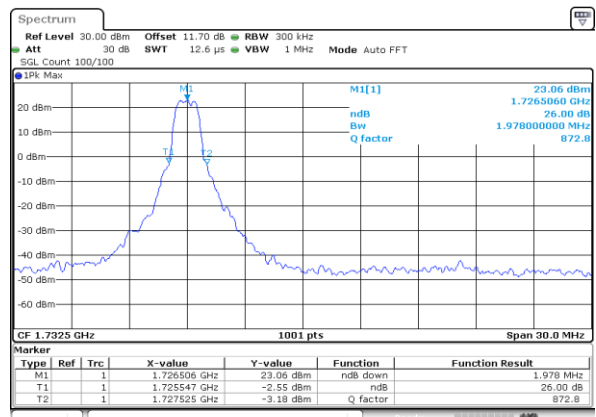
Date: 12.FEB.2020 03:57:54

Middle Channel / 15MHz / QPSK



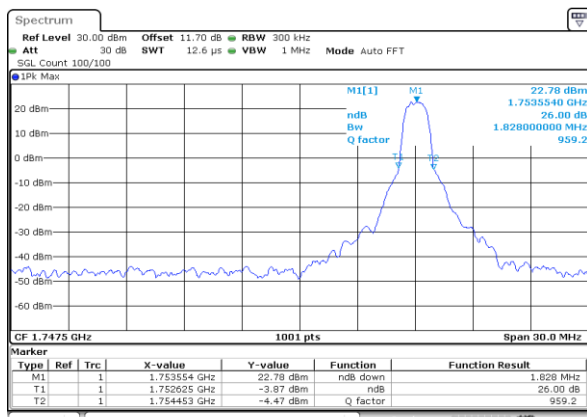
Date: 12.FEB.2020 04:28:55

Middle Channel / 15MHz / 16QAM



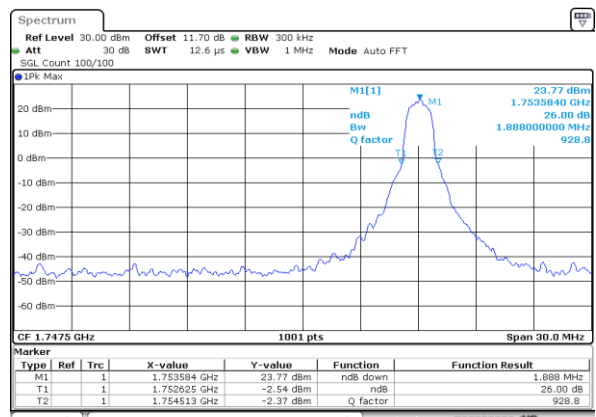
Date: 12.FEB.2020 04:29:12

Highest Channel / 15MHz / QPSK



Date: 12.FEB.2020 04:43:50

Highest Channel / 15MHz / 16QAM

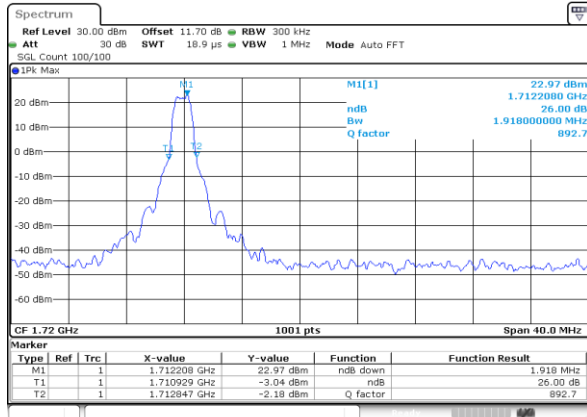


Date: 12.FEB.2020 04:44:26

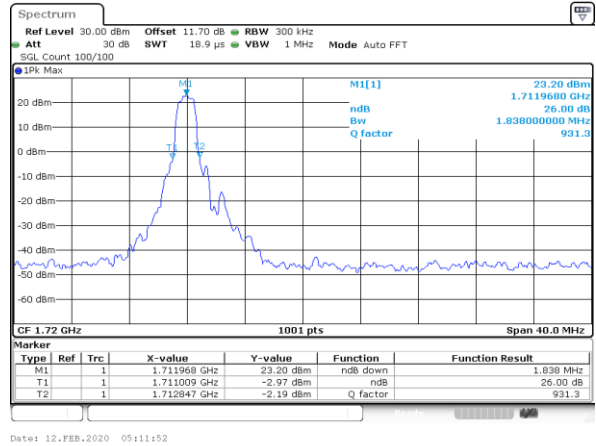


LTE Band 4

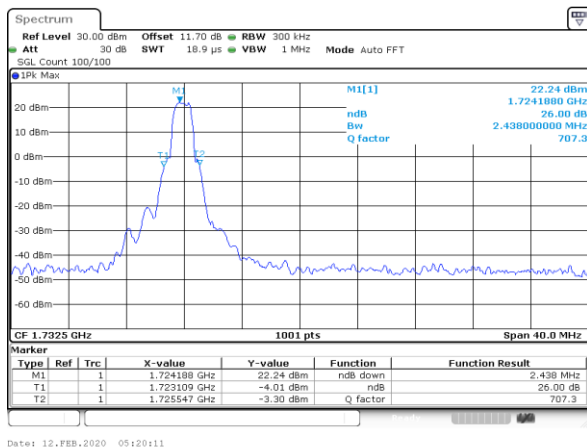
Lowest Channel / 20MHz / QPSK



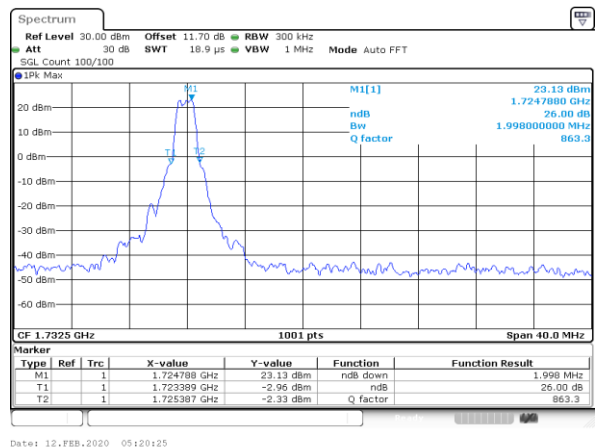
Lowest Channel / 20MHz / 16QAM



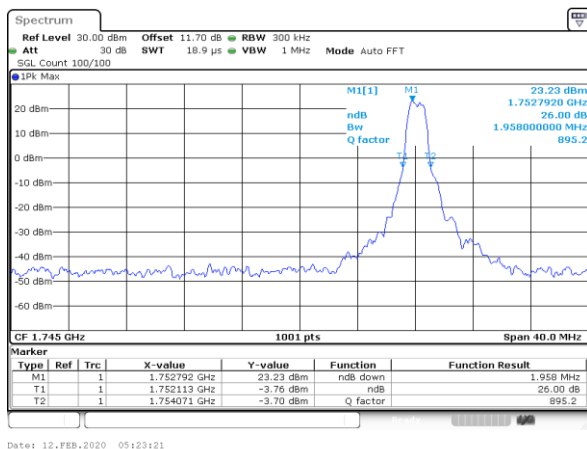
Middle Channel / 20MHz / QPSK



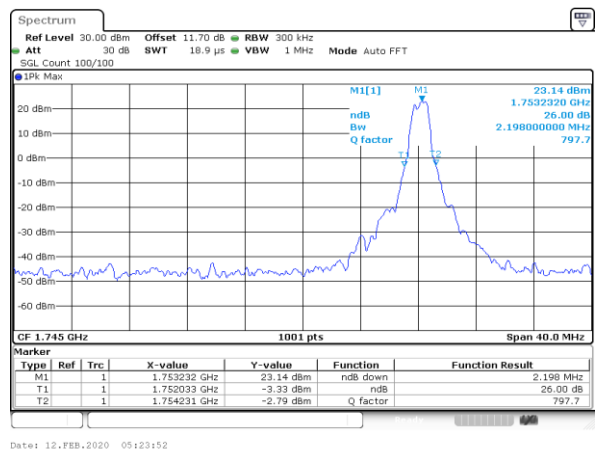
Middle Channel / 20MHz / 16QAM



Highest Channel / 20MHz / QPSK



Highest Channel / 20MHz / 16QAM





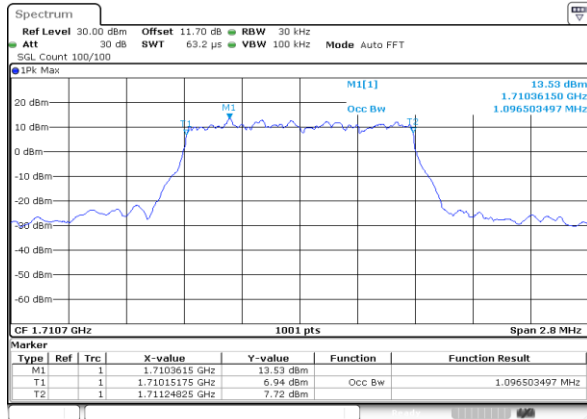
Occupied Bandwidth

Mode	LTE Band 4 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.10	1.10	1.18	1.18	1.16	1.16	1.46	1.44	1.44	1.50	1.44	1.52
Middle CH	1.10	1.12	1.16	1.16	1.17	1.16	1.44	1.42	1.47	1.47	1.48	1.48
Highest CH	1.09	1.10	1.16	1.17	1.19	1.15	1.46	1.44	1.47	1.47	1.48	1.48

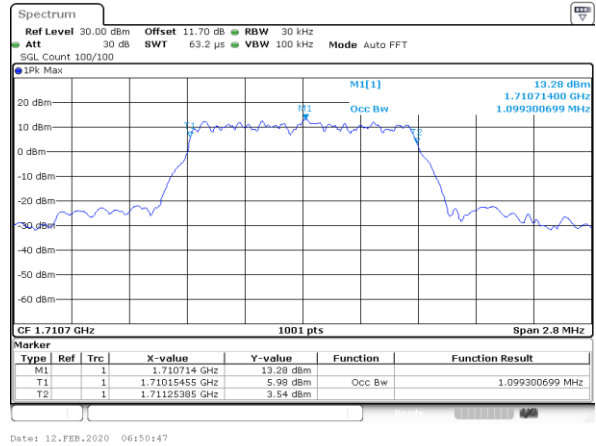


LTE Band 4

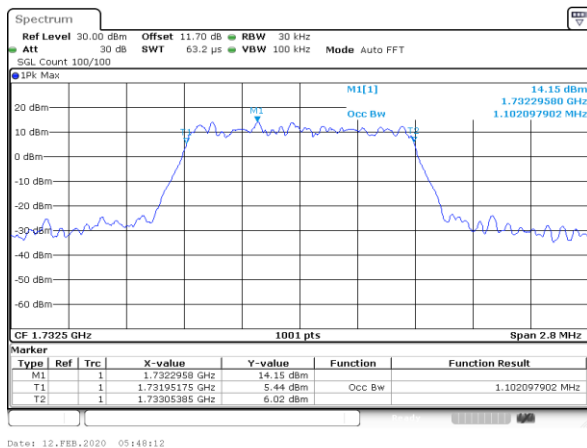
Lowest Channel / 1.4MHz / QPSK



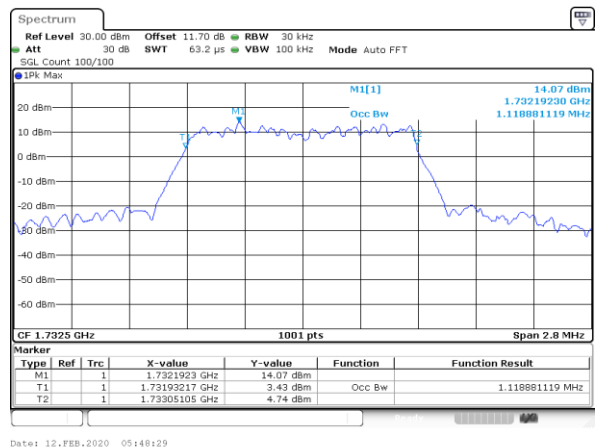
Lowest Channel / 1.4MHz / 16QAM



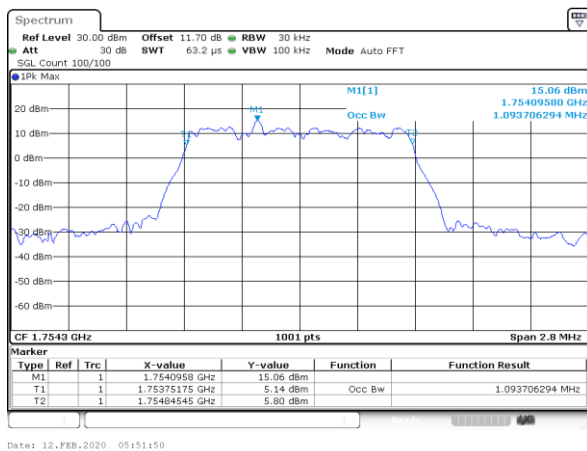
Middle Channel / 1.4MHz / QPSK



Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



Highest Channel / 1.4MHz / 16QAM

