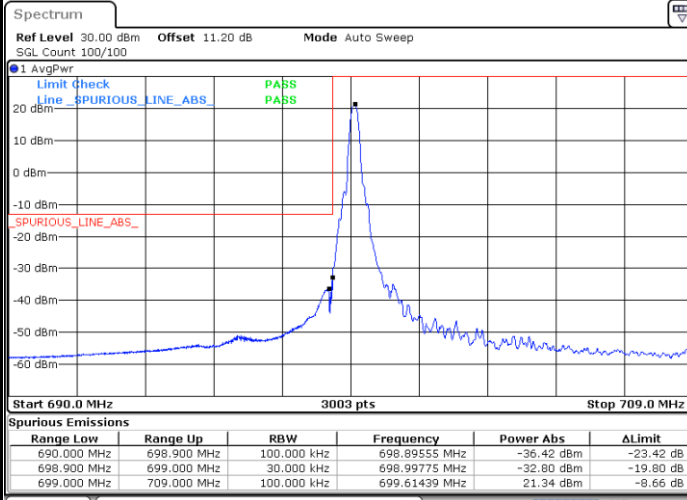




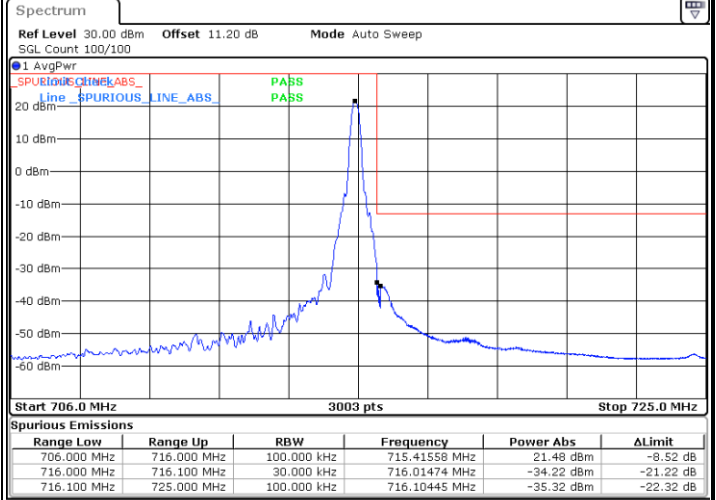
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



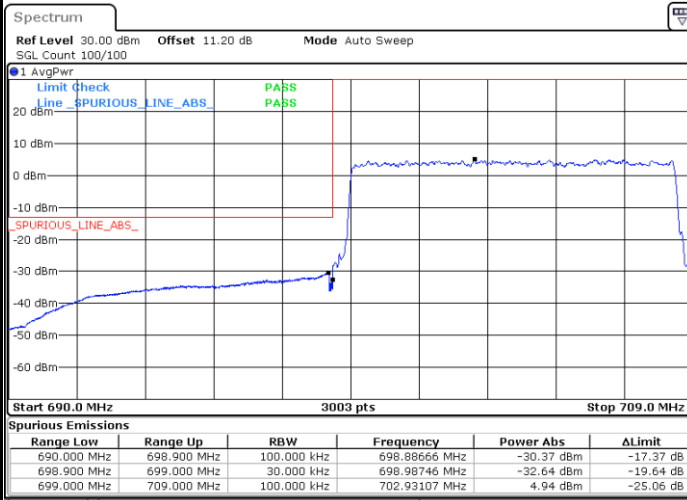
Date: 31.AUG.2022 17:37:43

Highest Band Edge / 1 RB



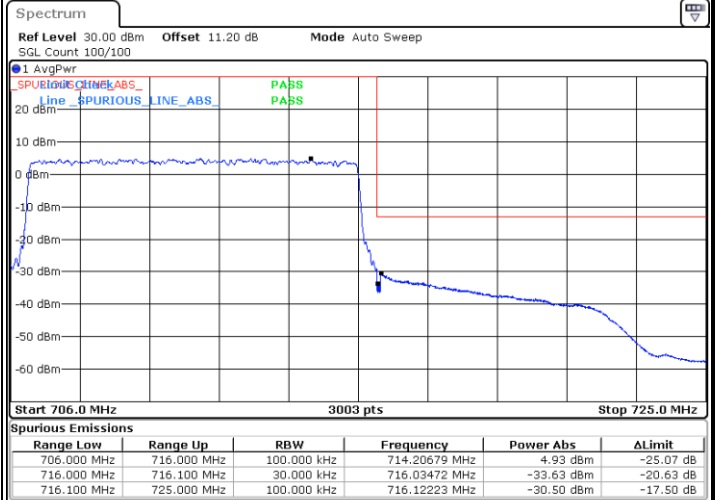
Date: 31.AUG.2022 17:44:43

Lowest Band Edge / Full RB



Date: 31.AUG.2022 17:35:12

Highest Band Edge / Full RB

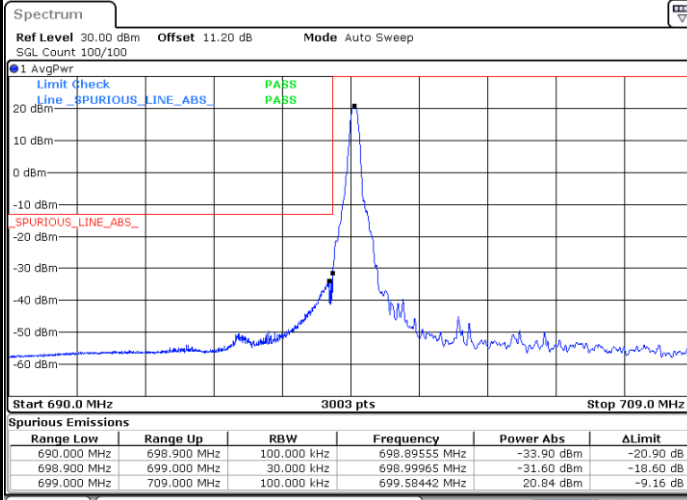


Date: 31.AUG.2022 17:42:14



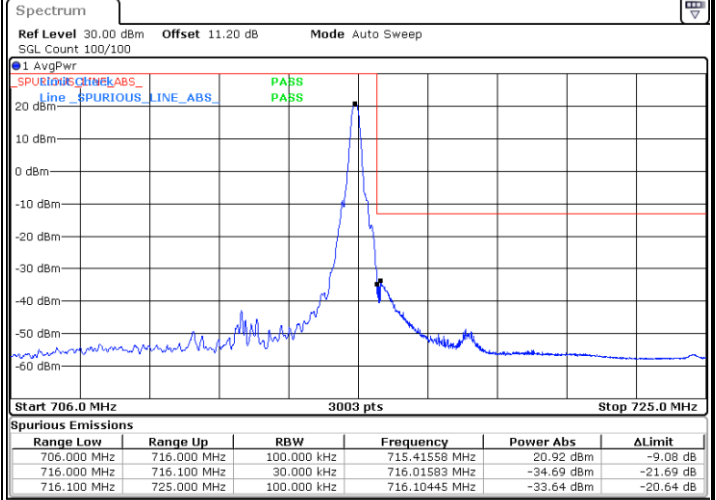
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



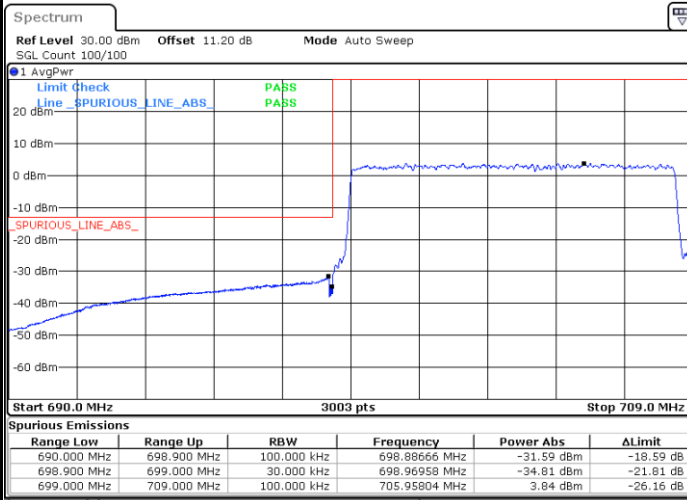
Date: 31.AUG.2022 17:36:53

Highest Band Edge / 1 RB



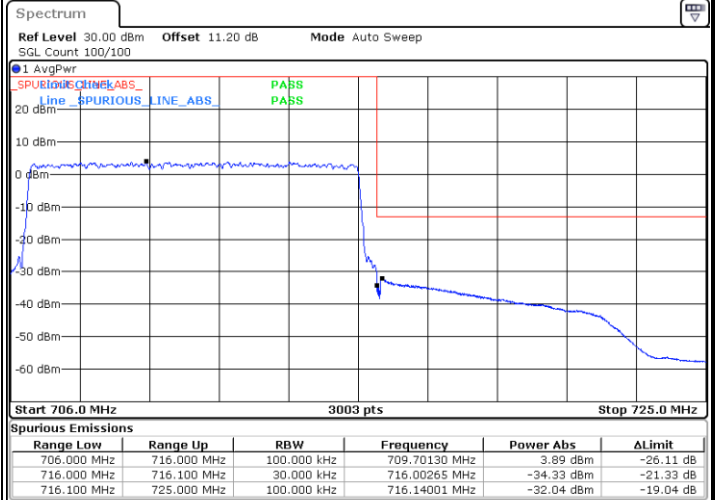
Date: 31.AUG.2022 17:43:54

Lowest Band Edge / Full RB



Date: 31.AUG.2022 17:36:03

Highest Band Edge / Full RB

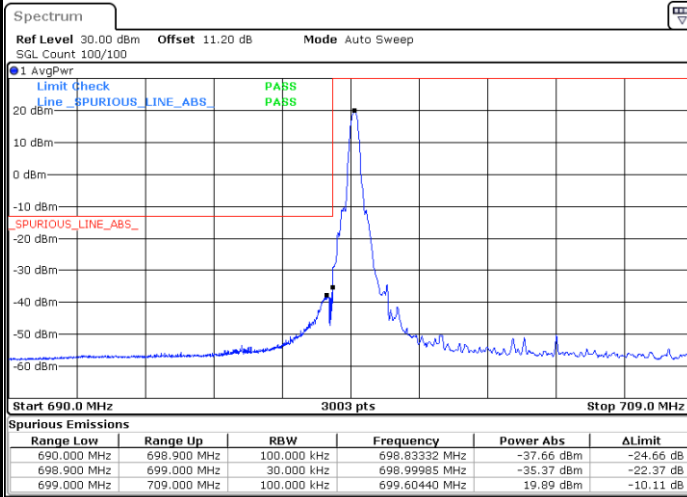


Date: 31.AUG.2022 17:43:04



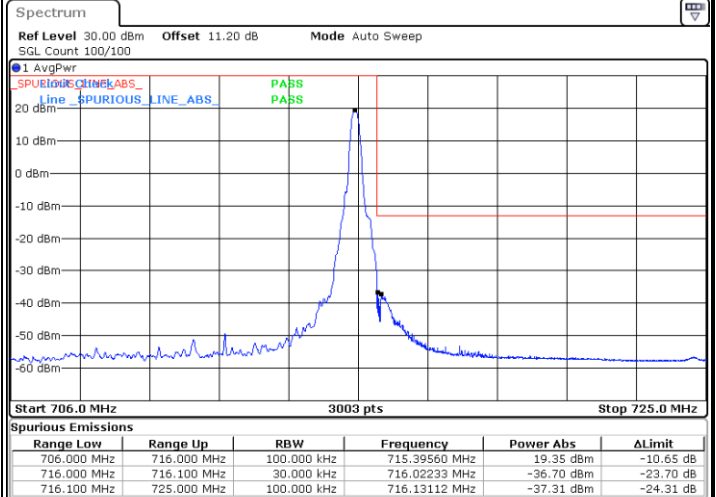
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



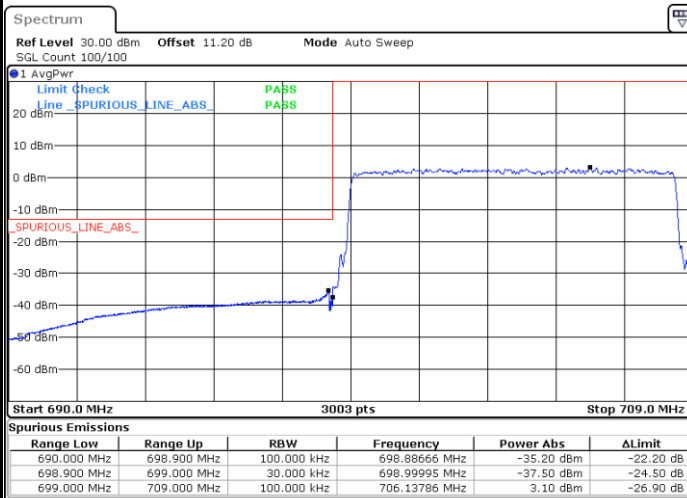
Date: 31.AUG.2022 17:47:31

Highest Band Edge / 1 RB



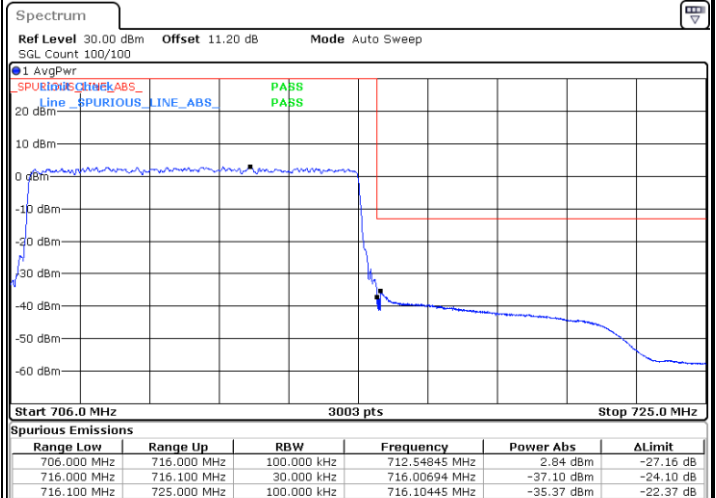
Date: 31.AUG.2022 17:49:54

Lowest Band Edge / Full RB



Date: 31.AUG.2022 17:46:41

Highest Band Edge / Full RB

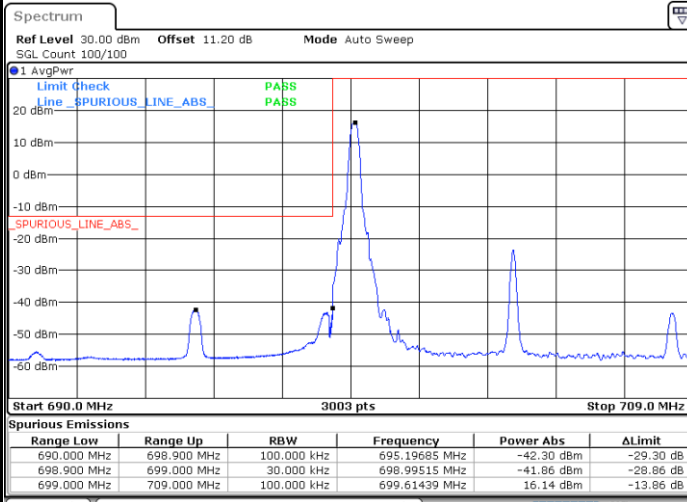


Date: 31.AUG.2022 17:49:04



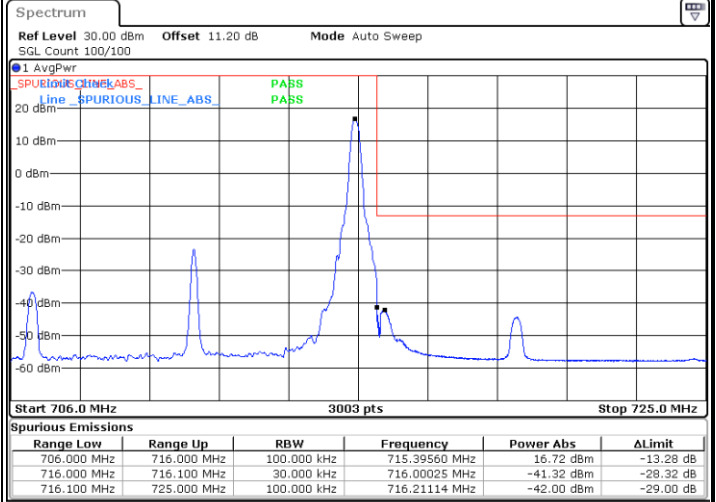
LTE Band 12 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



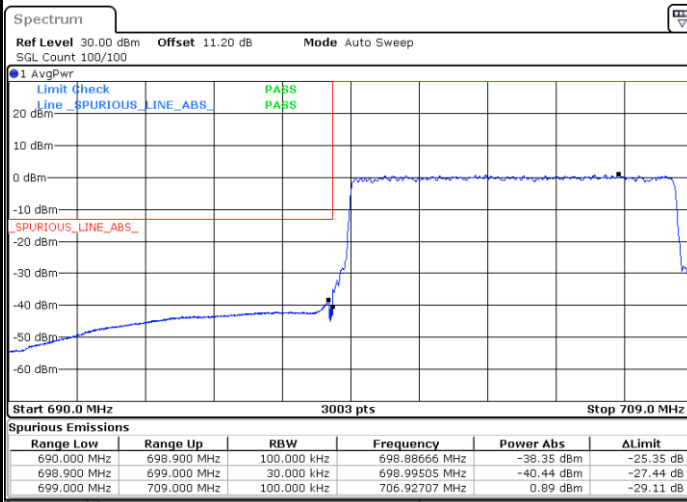
Date: 31.AUG.2022 18:05:45

Highest Band Edge / 1 RB



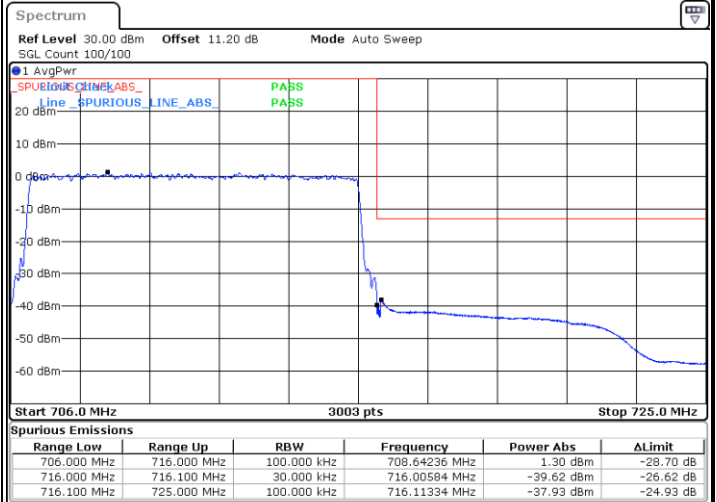
Date: 31.AUG.2022 18:08:11

Lowest Band Edge / Full RB



Date: 31.AUG.2022 18:04:53

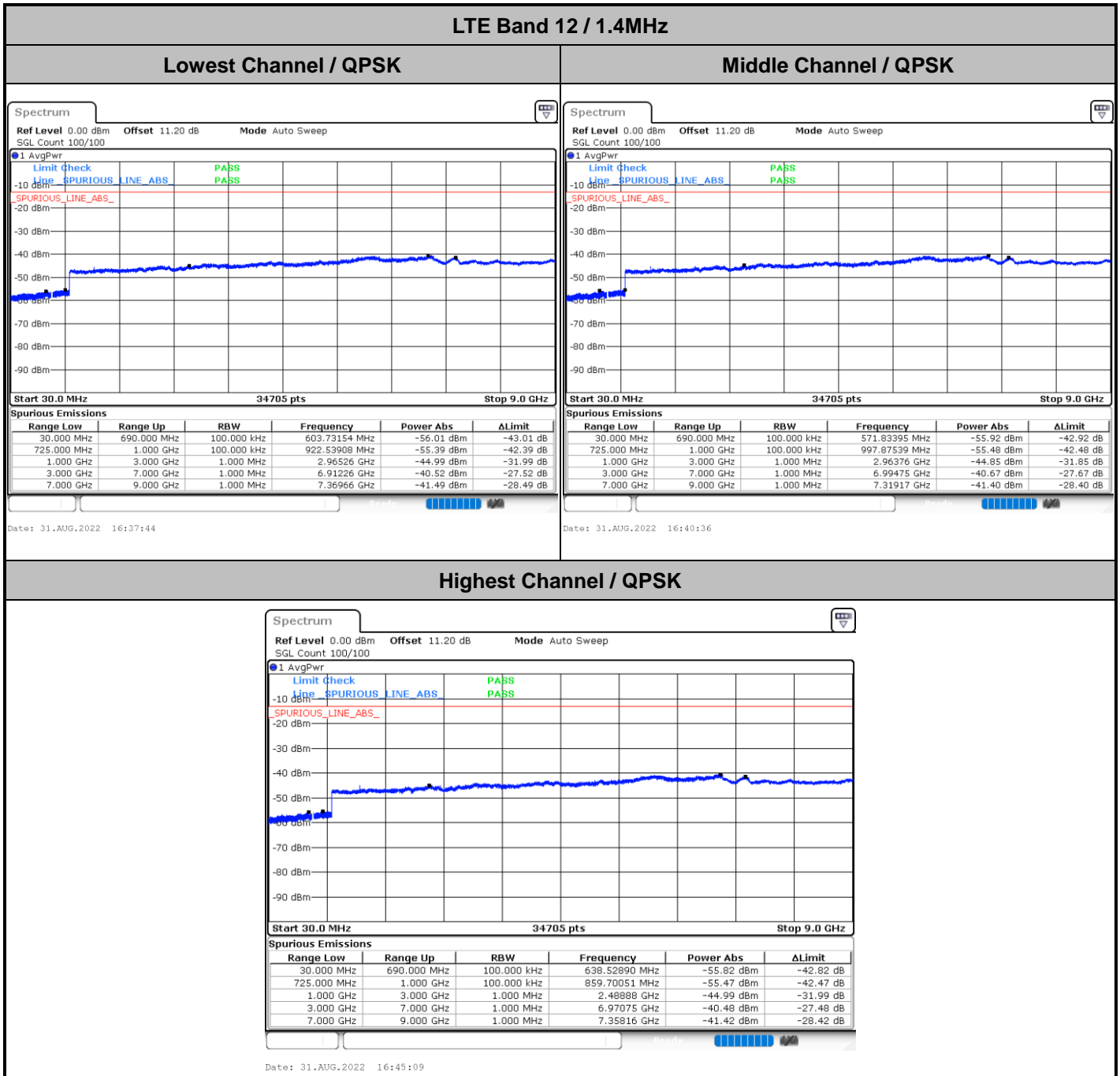
Highest Band Edge / Full RB



Date: 31.AUG.2022 18:07:18



Conducted Spurious Emission

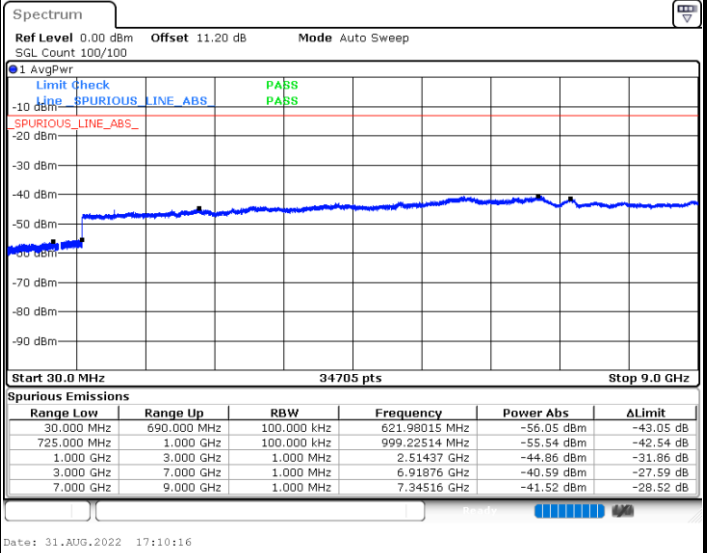
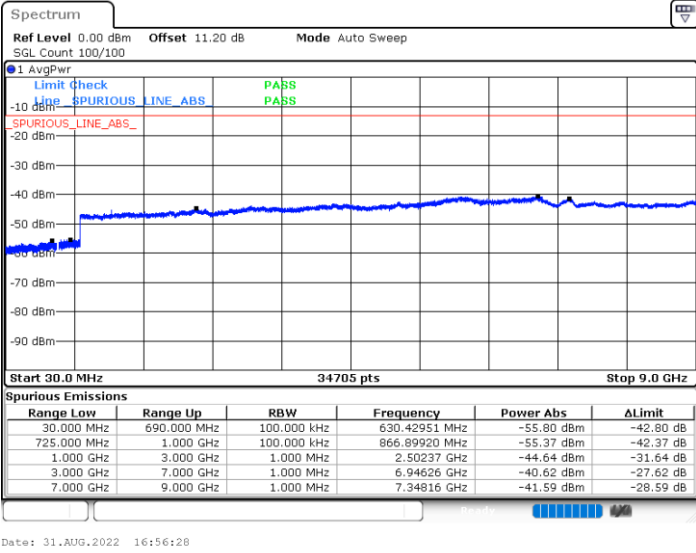




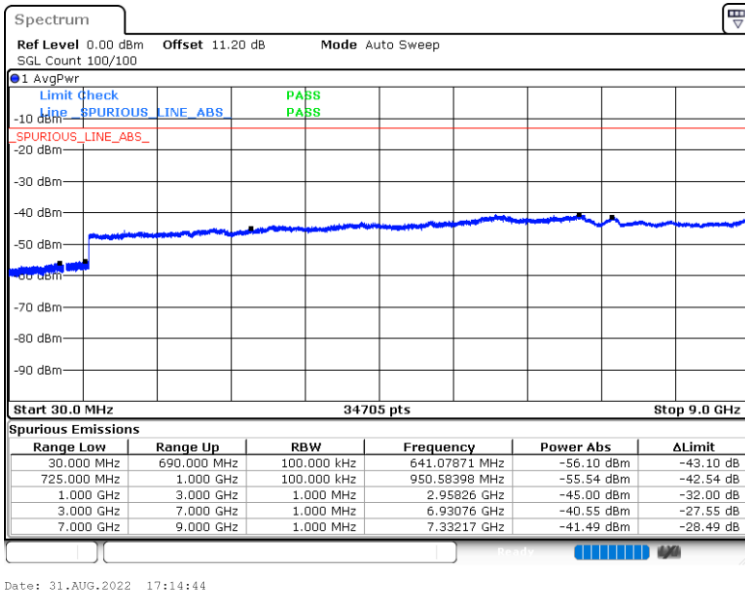
LTE Band 12 / 3MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

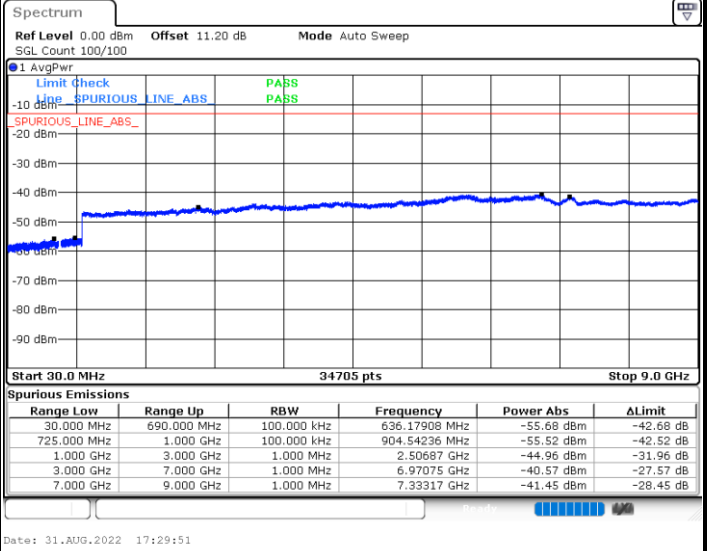
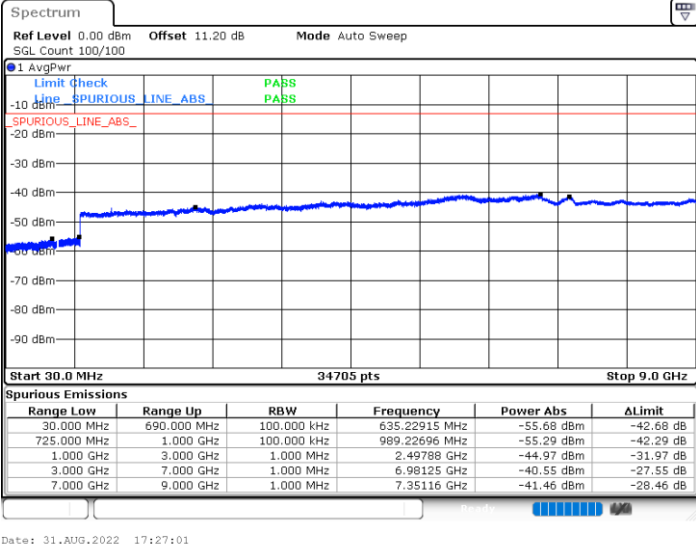




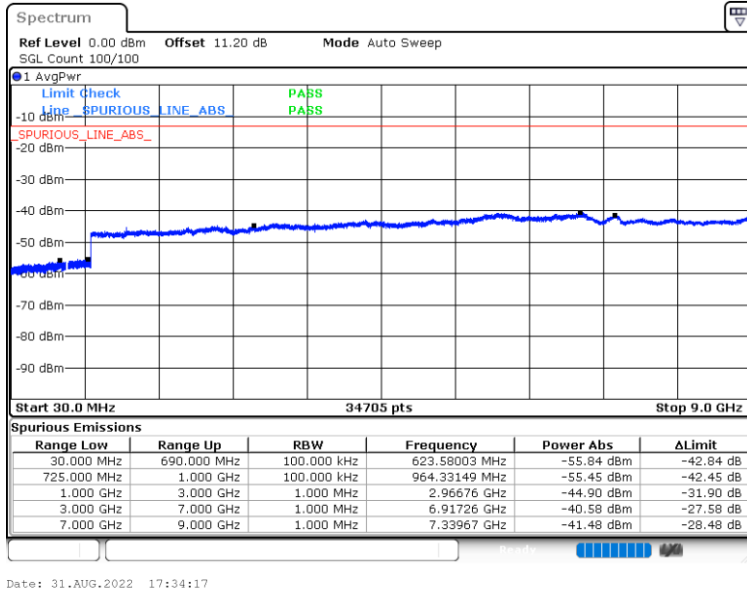
LTE Band 12 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

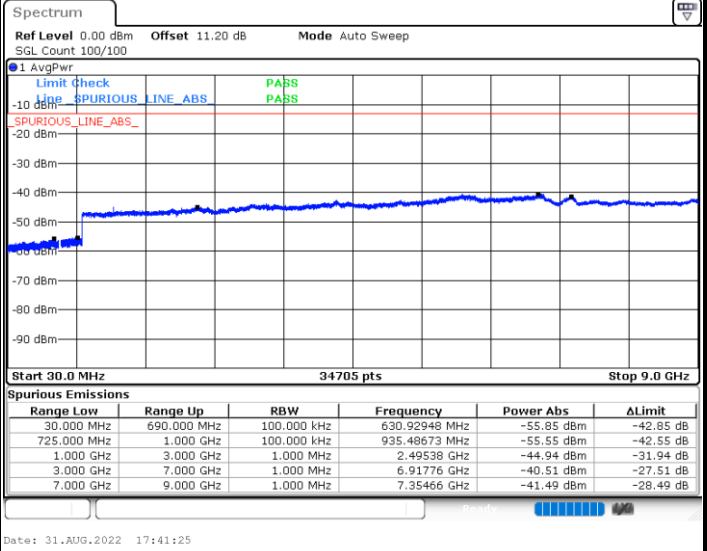
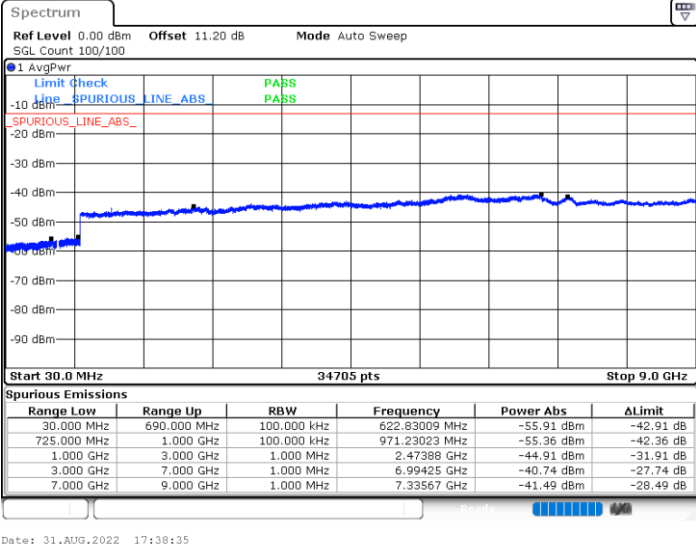




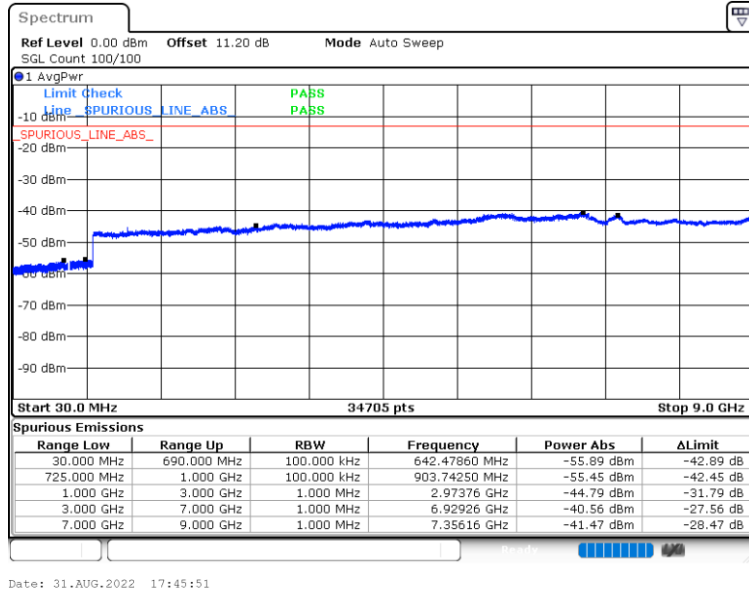
LTE Band 12 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0119	PASS
40	Normal Voltage	0.0106	
30	Normal Voltage	0.0066	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0119	
0	Normal Voltage	0.0073	
-10	Normal Voltage	0.0057	
-20	Normal Voltage	0.0119	
-30	Normal Voltage	0.0107	
20	Maximum Voltage	0.0051	
20	Normal Voltage	0.0119	
20	Battery End Point	0.0062	

Note:

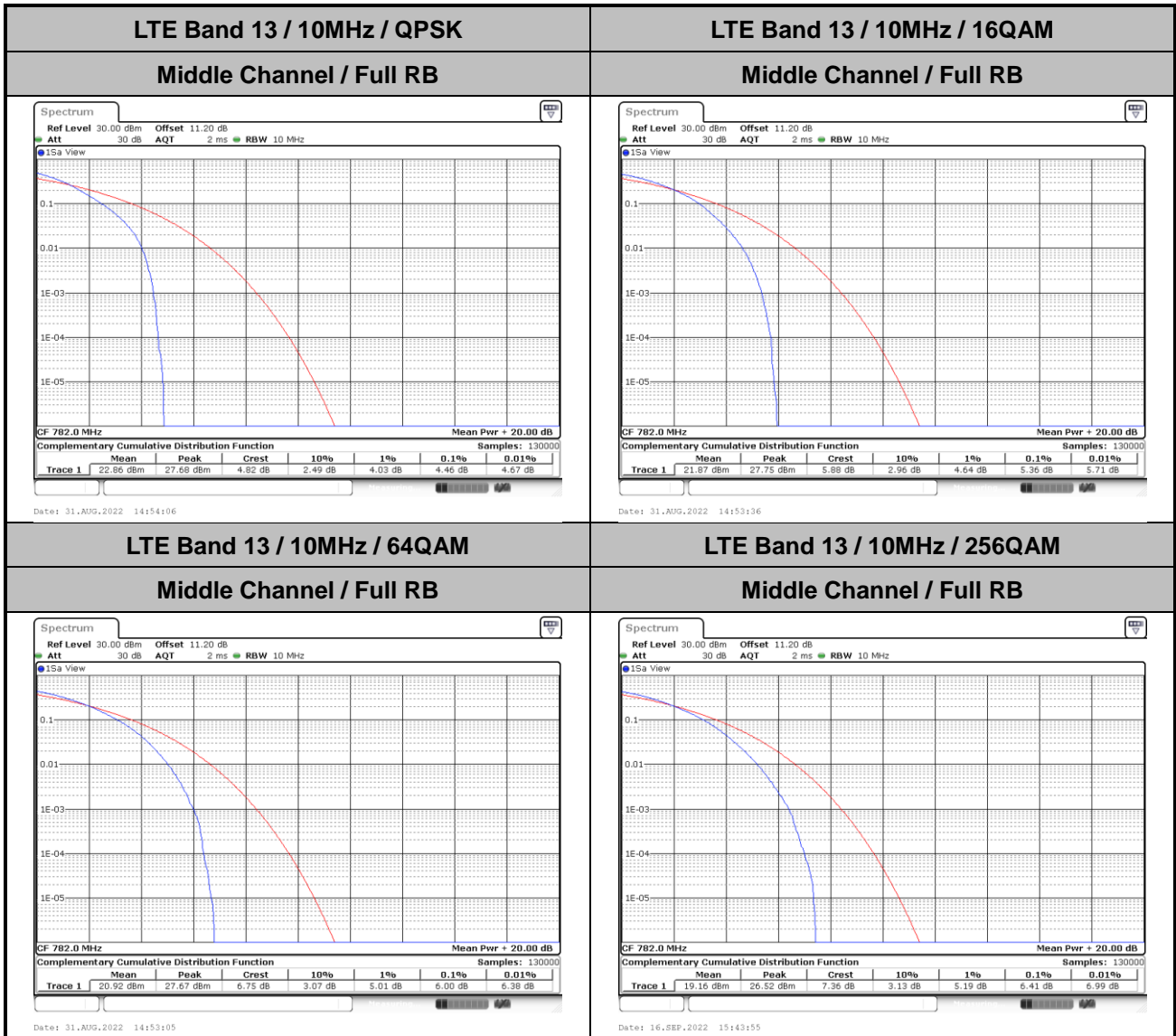
1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.3 V. ; Maximum Voltage = 4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.46	5.36	6.00	6.41	PASS





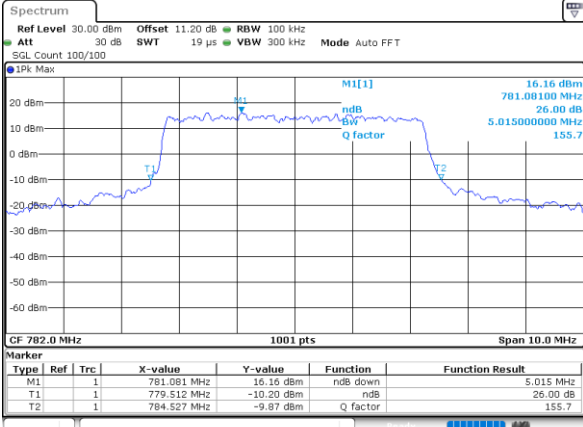
26dB Bandwidth

Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	5.02	4.85	9.83	9.93	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.85	4.92	9.99	9.65	-	-	-	-



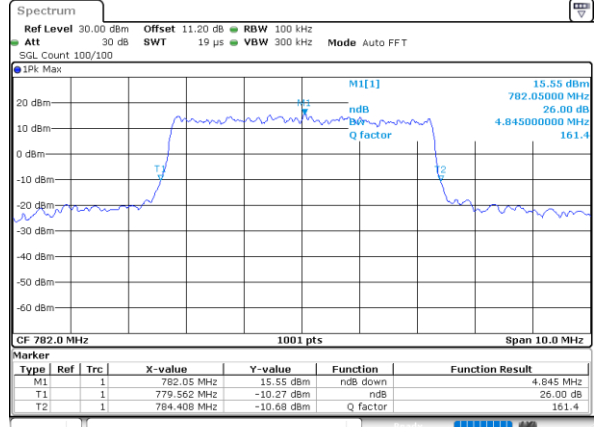
LTE Band 13

Middle Channel / 5MHz / QPSK



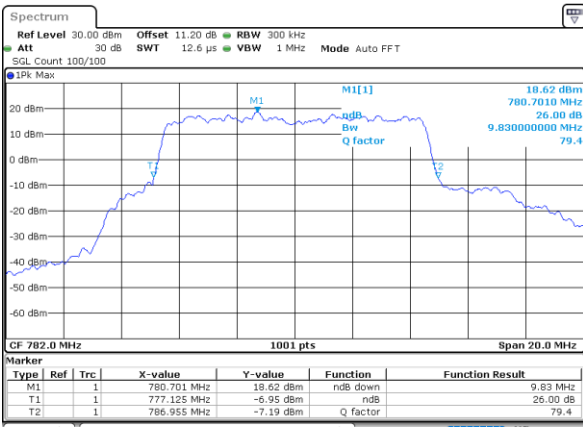
Date: 31.AUG.2022 14:09:03

Middle Channel / 5MHz / 16QAM



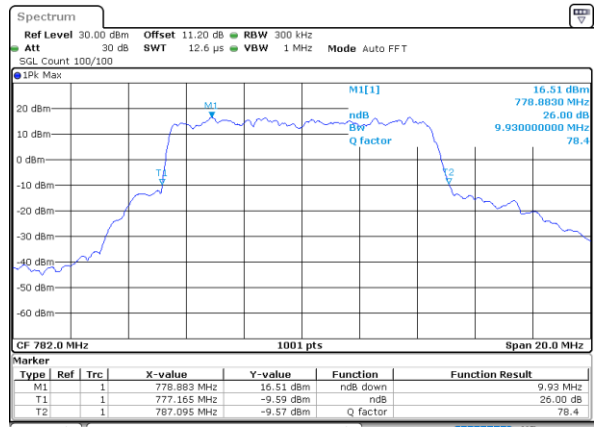
Date: 31.AUG.2022 14:09:32

Middle Channel / 10MHz / QPSK



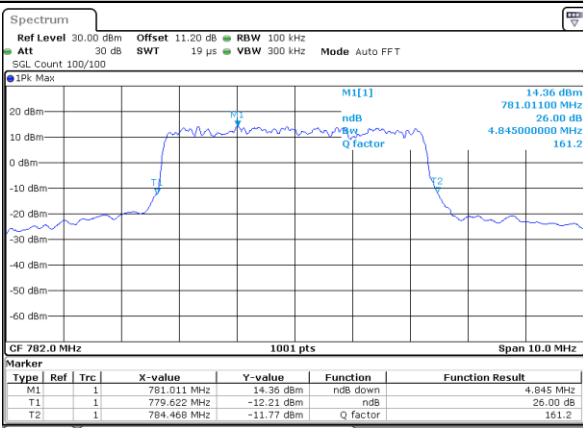
Date: 31.AUG.2022 14:21:48

Middle Channel / 10MHz / 16QAM



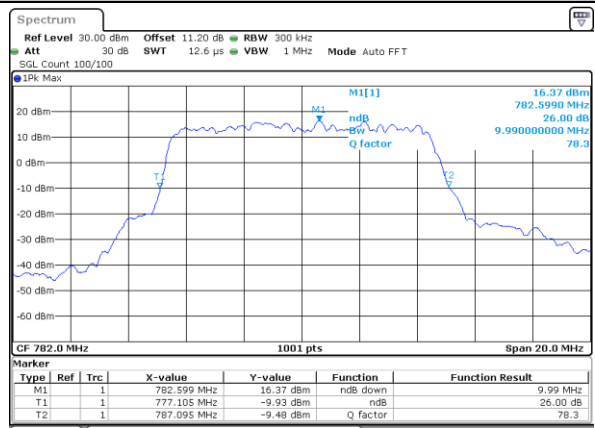
Date: 31.AUG.2022 14:21:19

Middle Channel / 5MHz / 64QAM



Date: 31.AUG.2022 14:17:00

Middle Channel / 10MHz / 64QAM



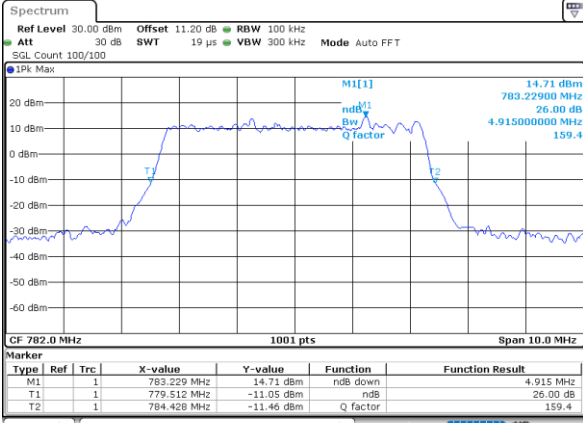
Date: 31.AUG.2022 14:30:20



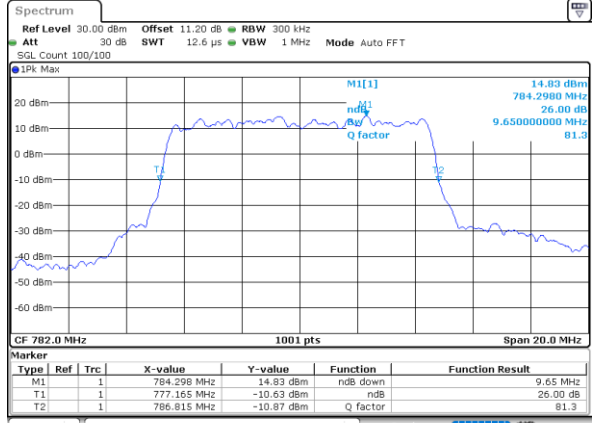
LTE Band 13

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 16_SEP_2022 15:37:42



Date: 16_SEP_2022 15:40:45



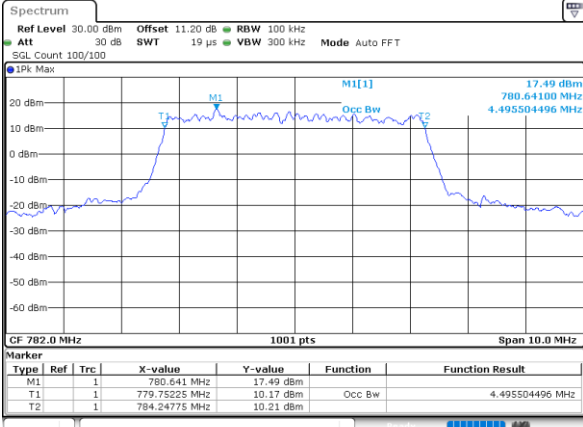
Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.50	4.50	8.97	8.99	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	-	-	-	-	4.52	4.52	8.99	8.93	-	-	-	-



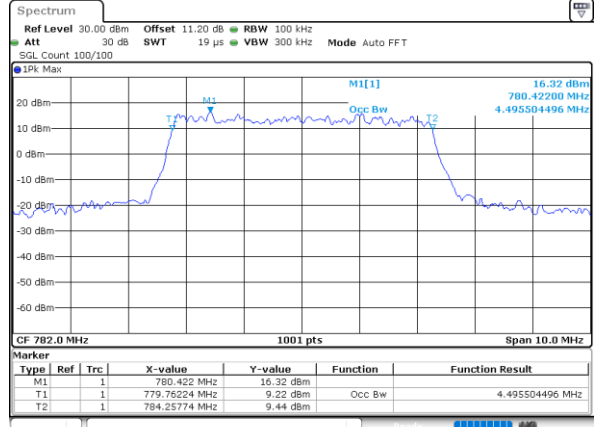
LTE Band 13

Middle Channel / 5MHz / QPSK



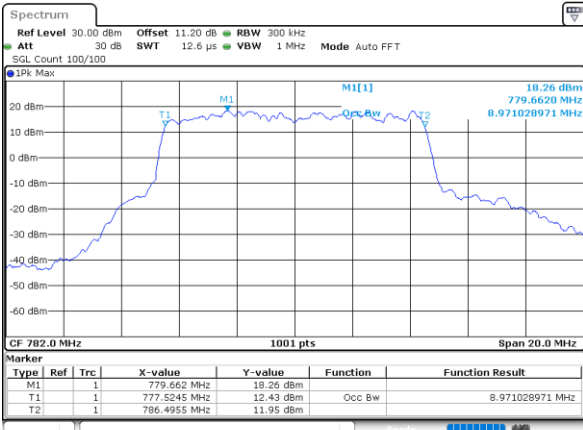
Date: 31.AUG.2022 14:10:15

Middle Channel / 5MHz / 16QAM



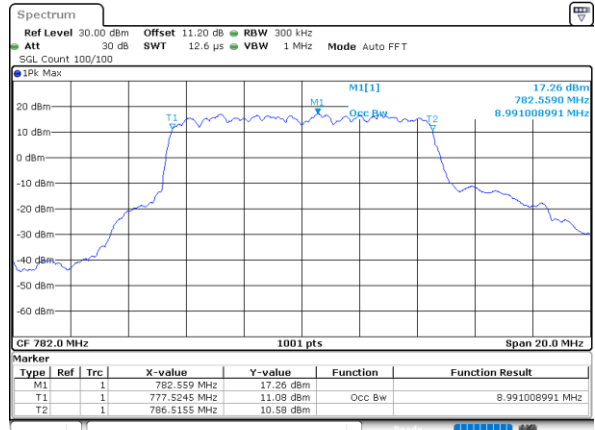
Date: 31.AUG.2022 14:10:46

Middle Channel / 10MHz / QPSK



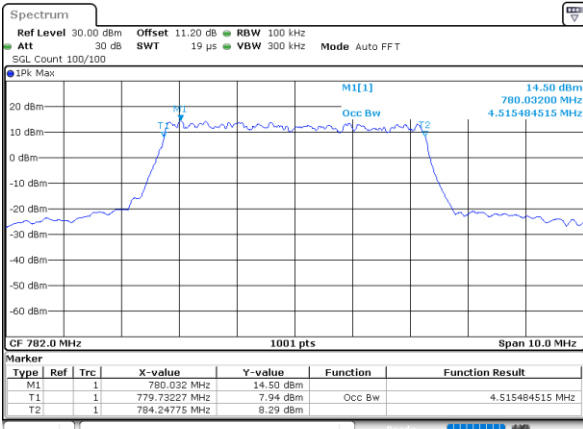
Date: 31.AUG.2022 14:19:37

Middle Channel / 10MHz / 16QAM



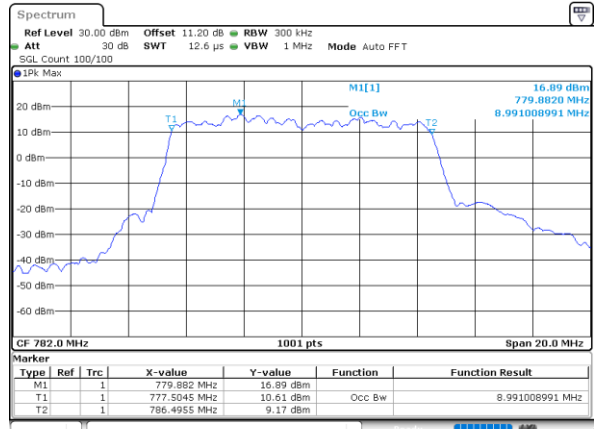
Date: 31.AUG.2022 14:20:11

Middle Channel / 5MHz / 64QAM



Date: 31.AUG.2022 14:17:14

Middle Channel / 10MHz / 64QAM



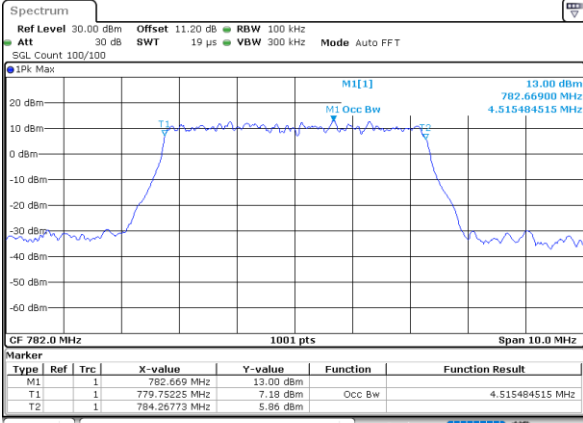
Date: 31.AUG.2022 14:30:06



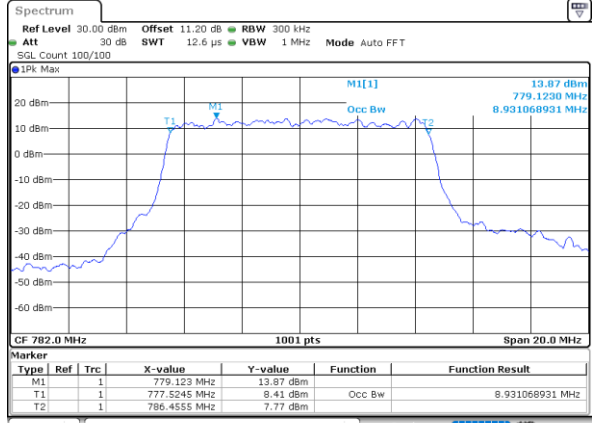
LTE Band 13

Middle Channel / 5MHz / 256QAM

Middle Channel / 10MHz / 256QAM



Date: 16_SEP.2022 15:37:57



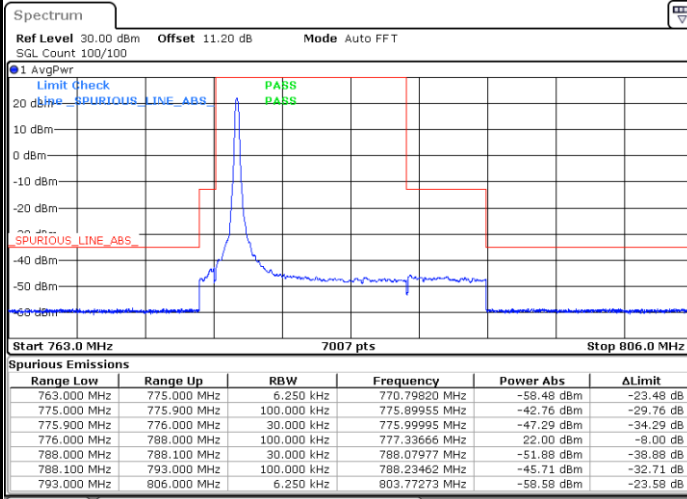
Date: 16_SEP.2022 15:40:31



Conducted Band Edge

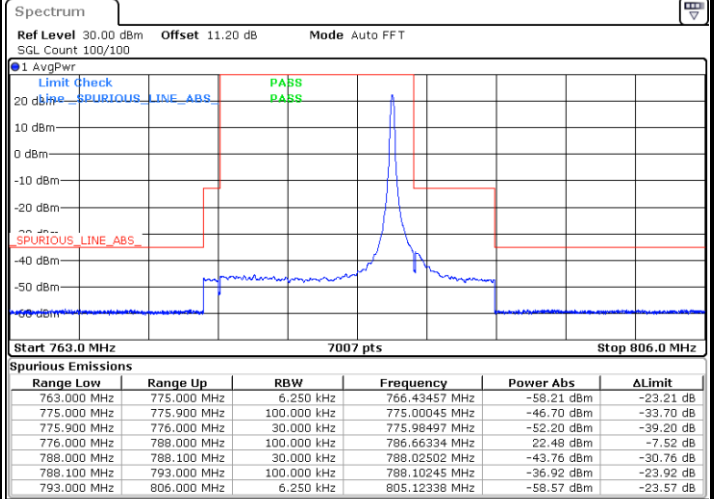
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



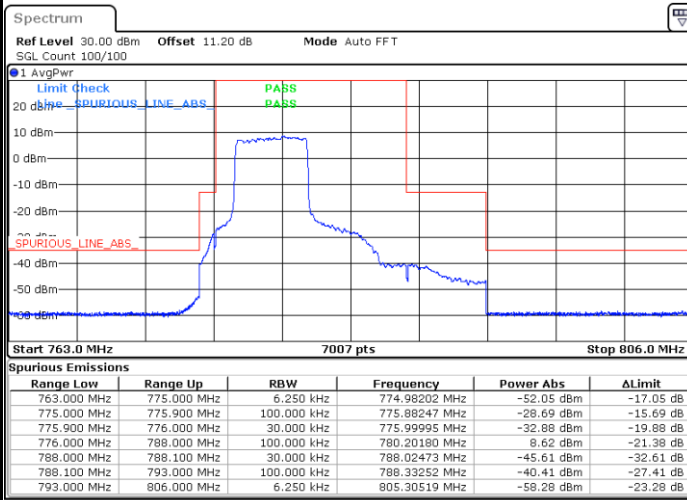
Date: 31.AUG.2022 14:06:33

Highest Band Edge / 1 RB



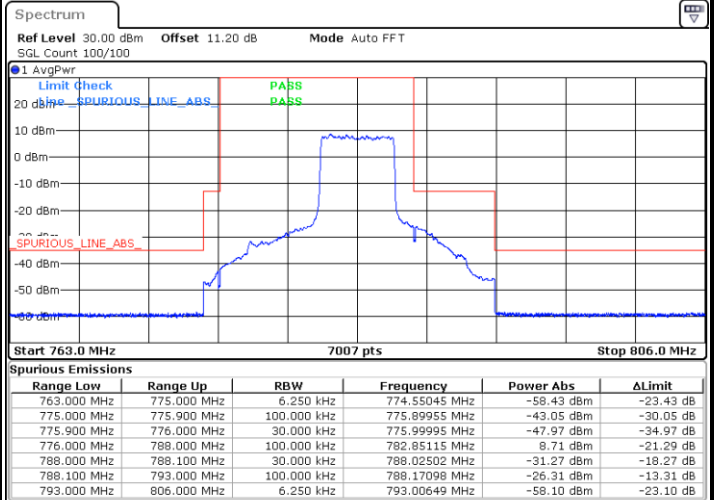
Date: 31.AUG.2022 14:13:34

Lowest Band Edge / Full RB



Date: 31.AUG.2022 14:04:06

Highest Band Edge / Full RB

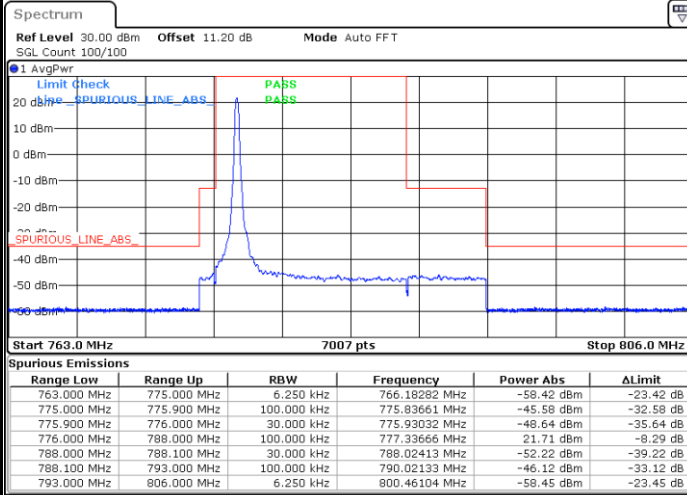


Date: 31.AUG.2022 14:11:04



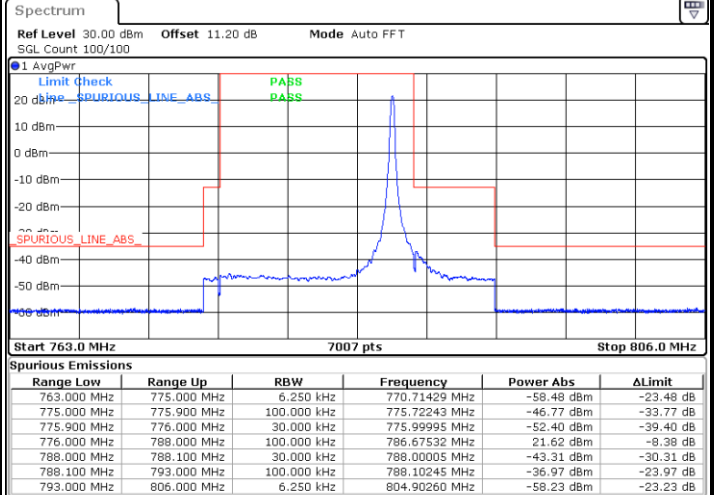
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



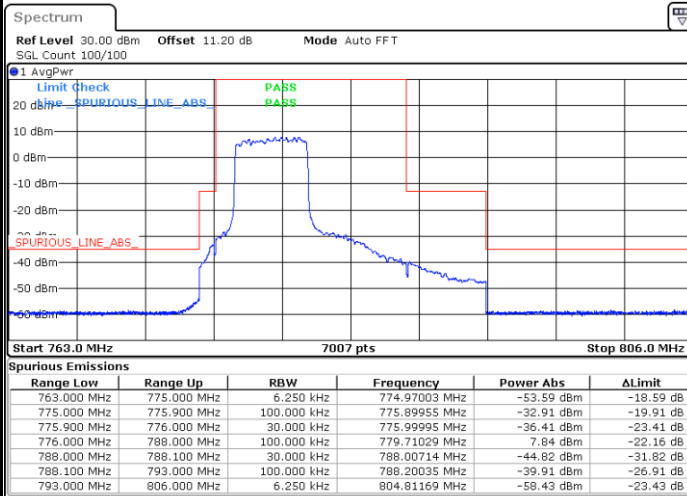
Date: 31.AUG.2022 14:05:45

Highest Band Edge / 1 RB



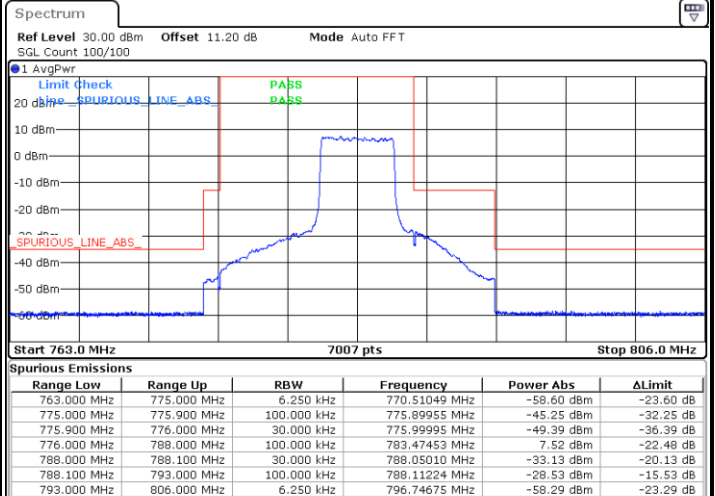
Date: 31.AUG.2022 14:12:42

Lowest Band Edge / Full RB



Date: 31.AUG.2022 14:04:56

Highest Band Edge / Full RB



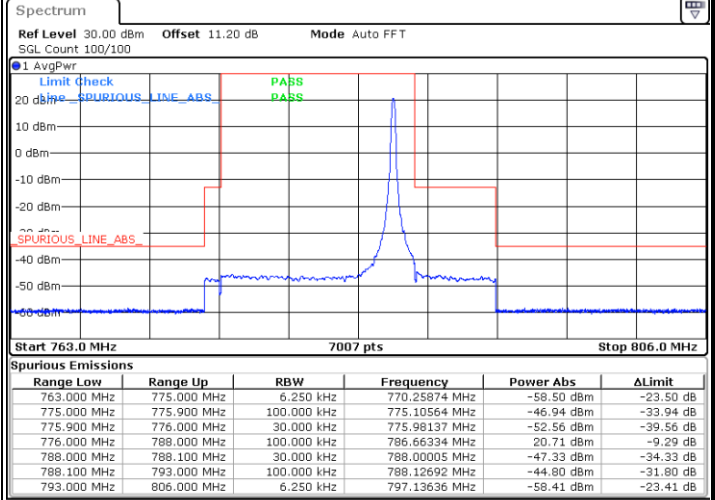
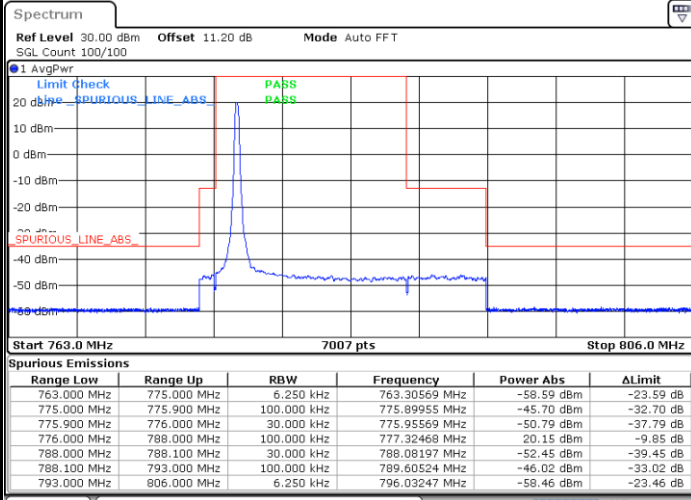
Date: 31.AUG.2022 14:11:53



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

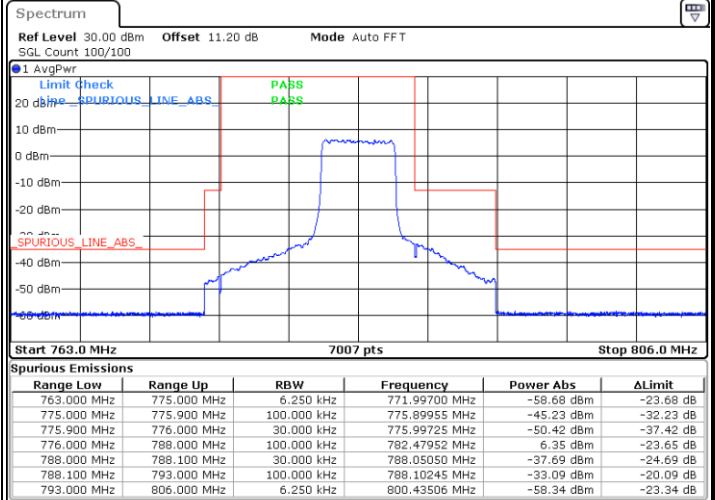
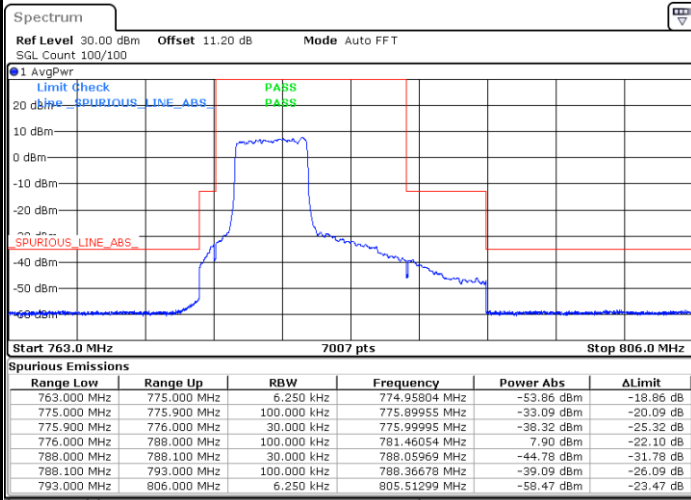


Date: 31.AUG.2022 14:16:26

Date: 31.AUG.2022 14:19:01

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



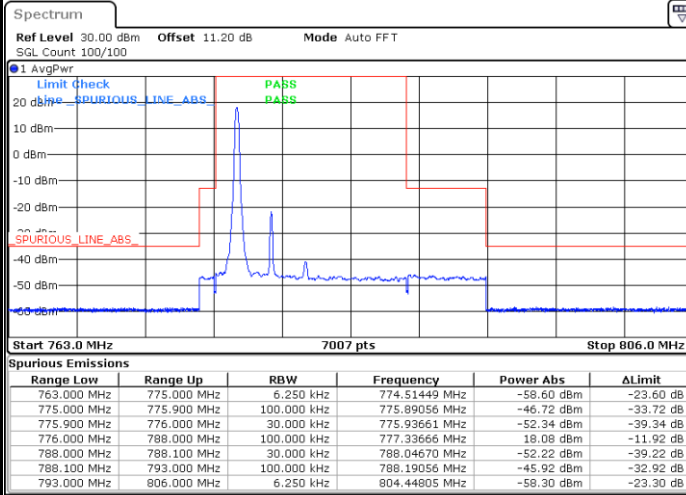
Date: 31.AUG.2022 14:15:34

Date: 31.AUG.2022 14:18:08



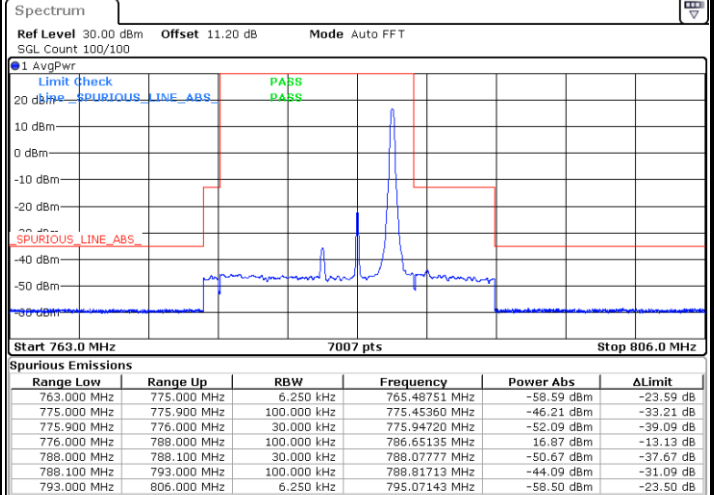
LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1 RB



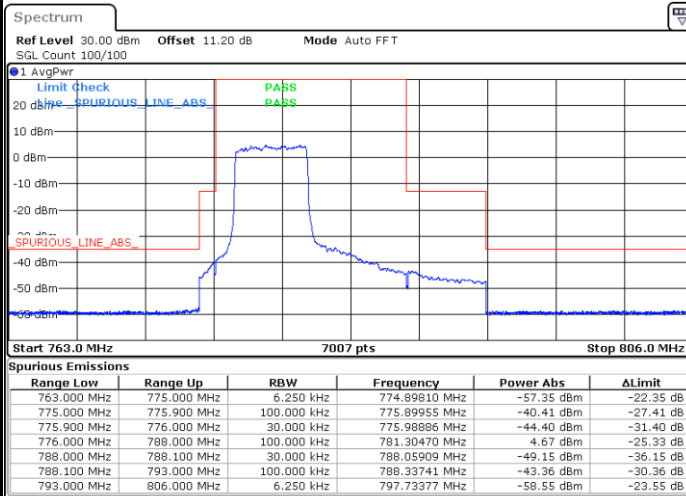
Date: 16.SEP.2022 15:37:13

Highest Band Edge / 1 RB



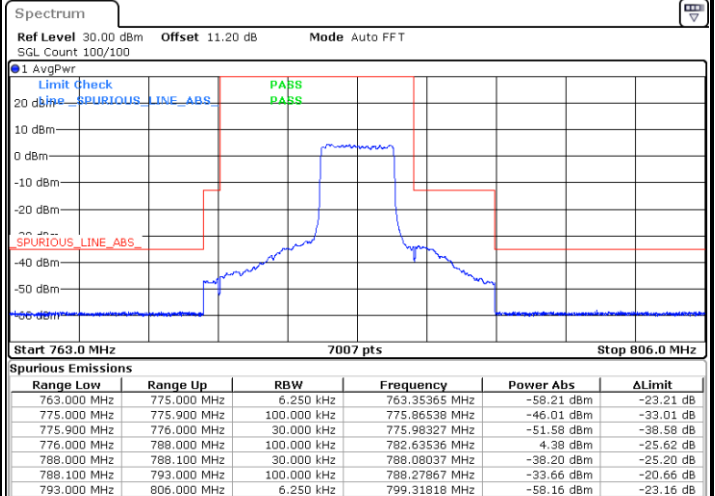
Date: 16.SEP.2022 15:39:56

Lowest Band Edge / Full RB



Date: 16.SEP.2022 15:36:12

Highest Band Edge / Full RB



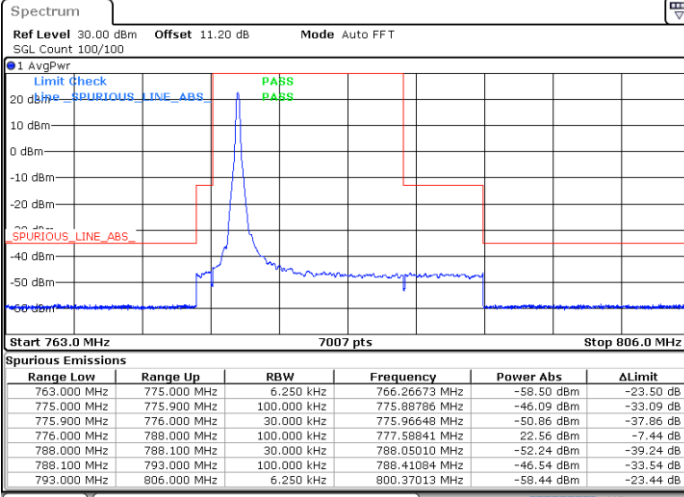
Date: 16.SEP.2022 15:38:55



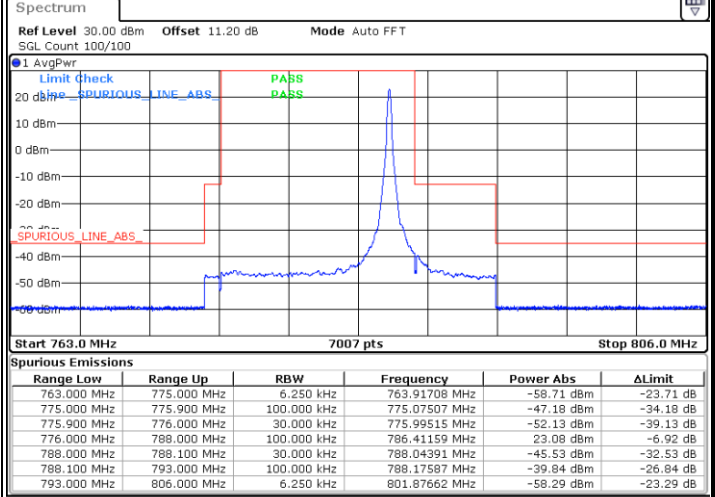
LTE Band 13 / 10MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

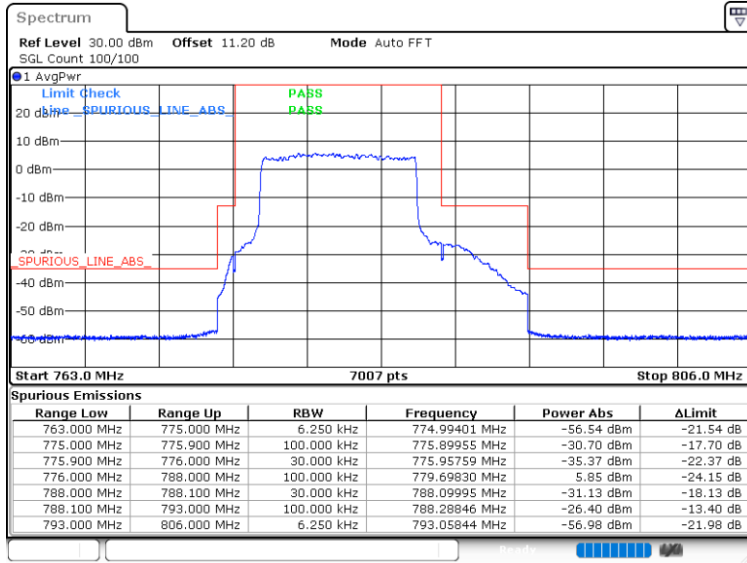


Date: 31.AUG.2022 14:25:51



Date: 31.AUG.2022 14:27:36

Band Edge / Full RB



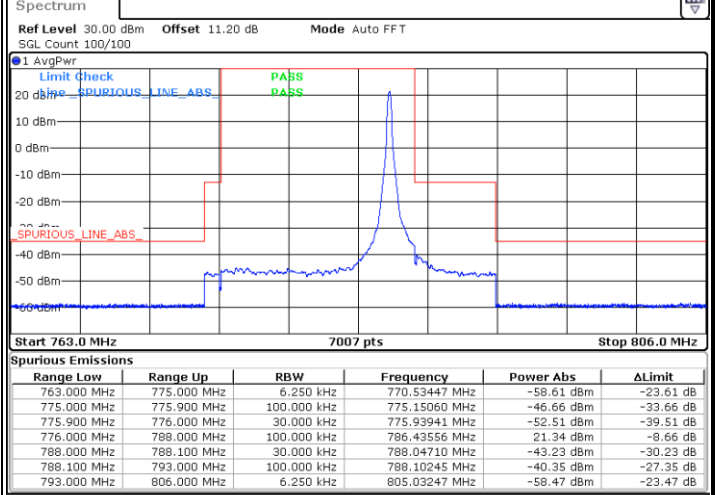
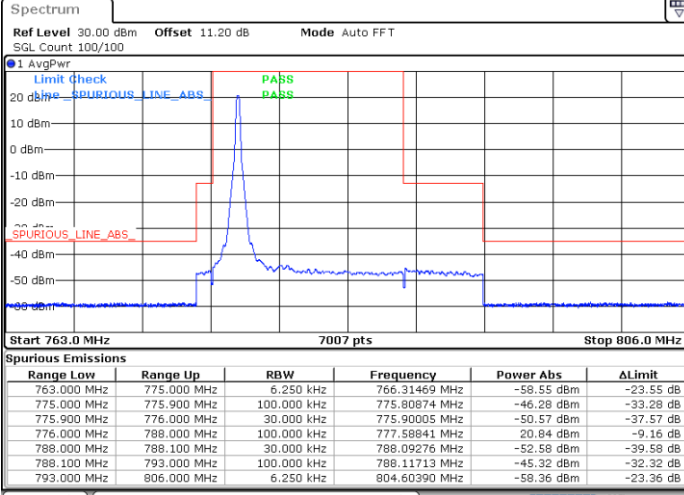
Date: 31.AUG.2022 14:23:16



LTE Band 13 / 10MHz / 16QAM

Lowest Band Edge / 1 RB

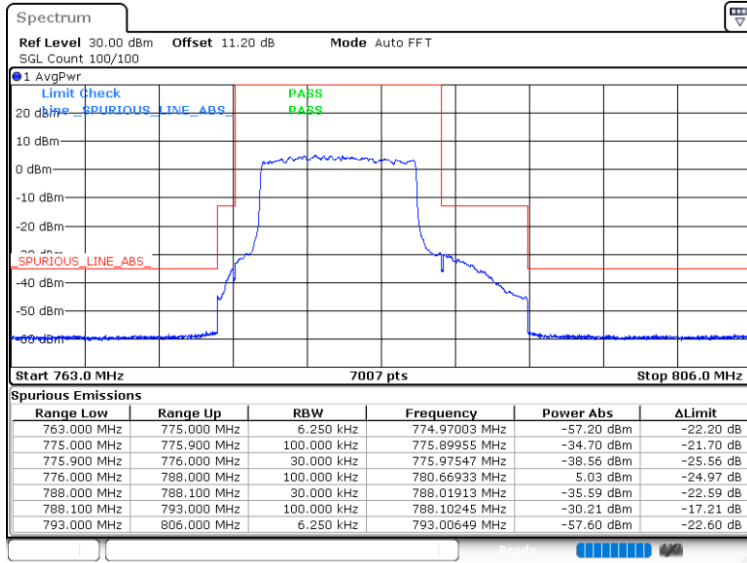
Highest Band Edge / 1 RB



Date: 31.AUG.2022 14:24:58

Date: 31.AUG.2022 14:28:24

Band Edge / Full RB



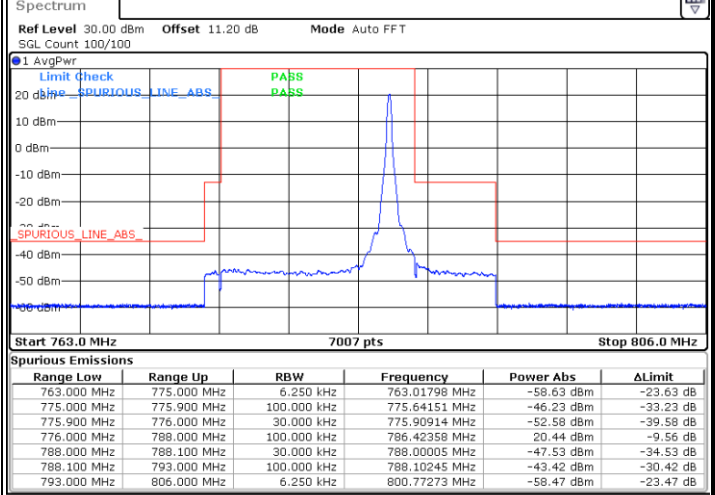
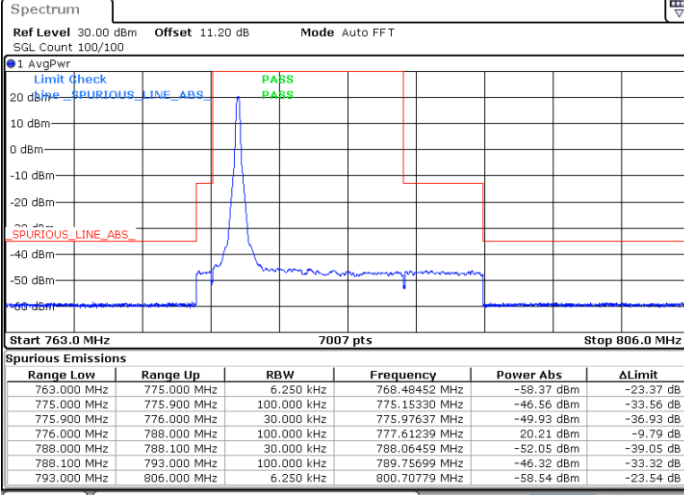
Date: 31.AUG.2022 14:24:09



LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB

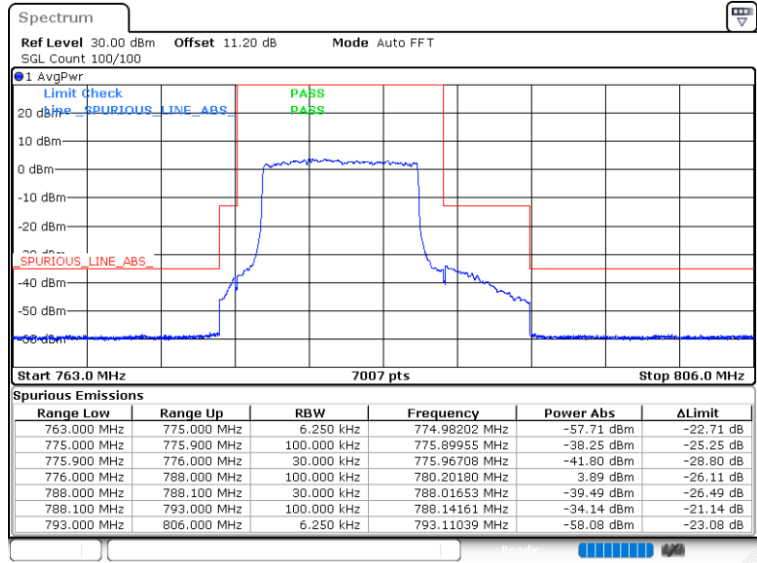
Highest Band Edge / 1 RB



Date: 31.AUG.2022 14:51:46

Date: 31.AUG.2022 14:52:35

Band Edge / Full RB

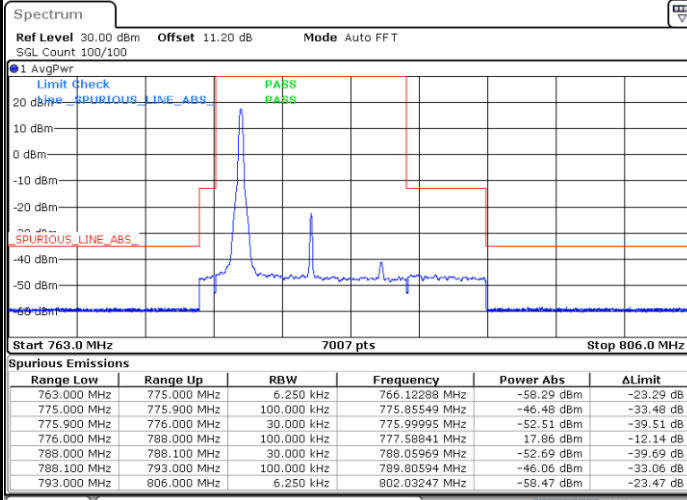


Date: 31.AUG.2022 14:50:58



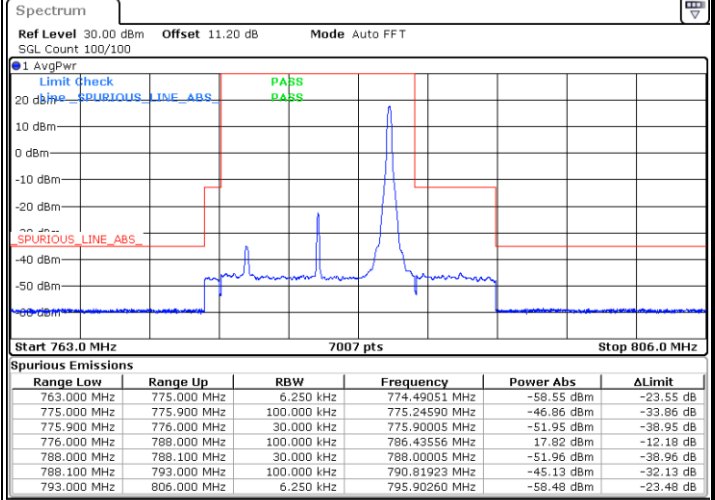
LTE Band 13 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



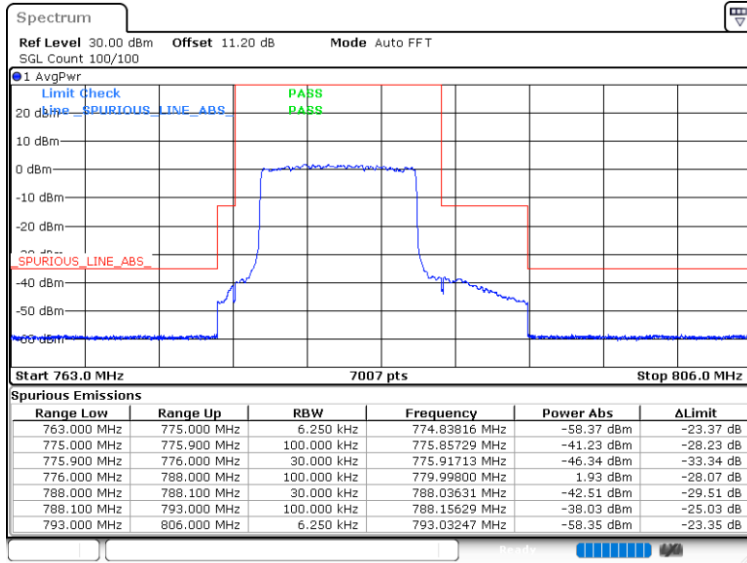
Date: 16.SEP.2022 15:42:26

Highest Band Edge / 1 RB



Date: 16.SEP.2022 15:43:24

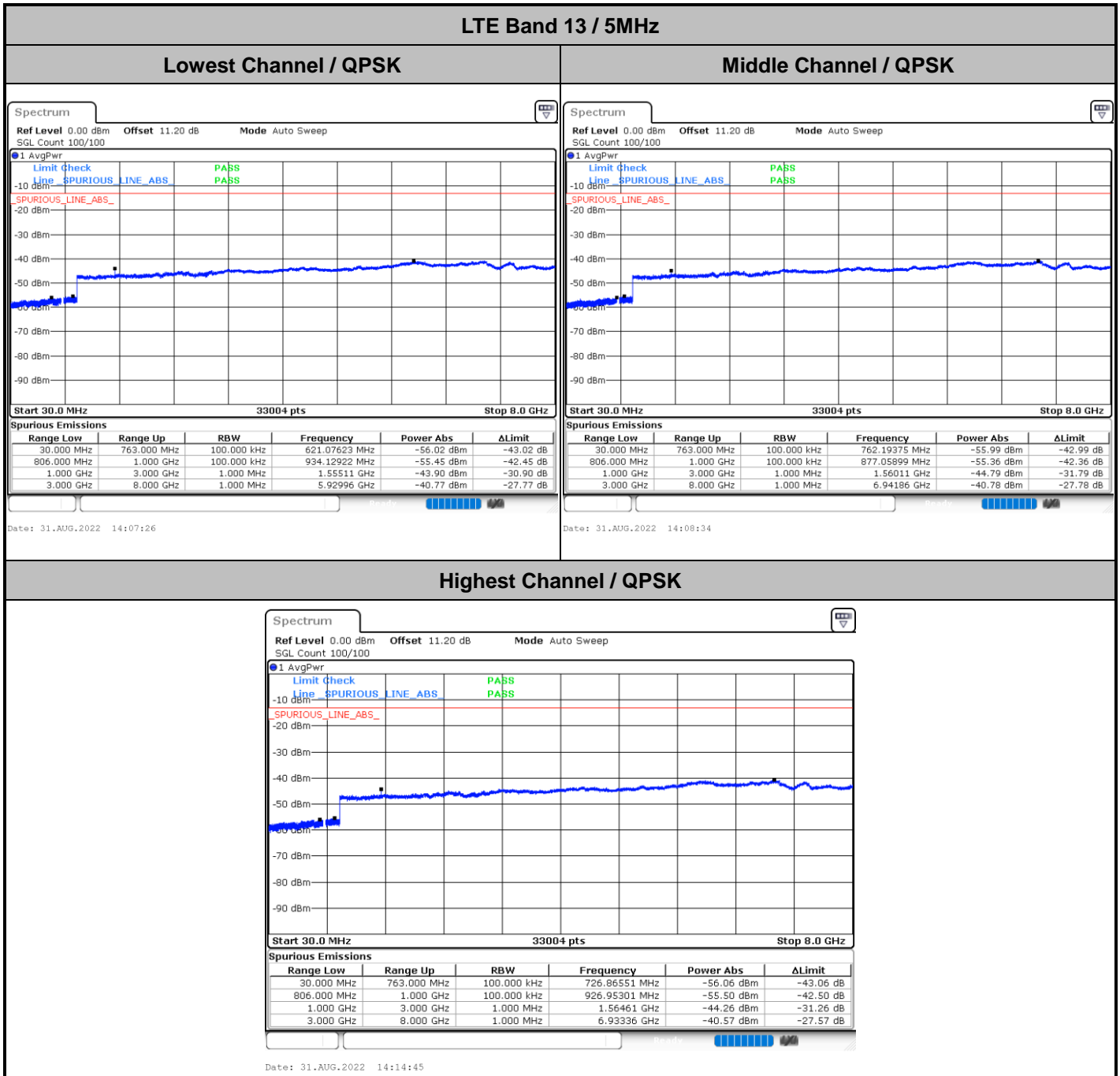
Band Edge / Full RB



Date: 16.SEP.2022 15:41:28



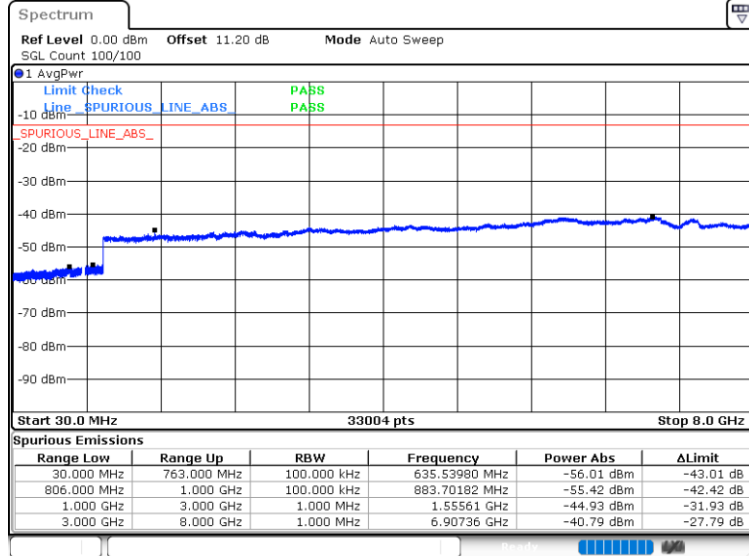
Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 31.AUG.2022 14:29:38



Frequency Stability

Test Conditions		LTE Band 13 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0238	PASS
40	Normal Voltage	0.0056	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0238	
0	Normal Voltage	0.0182	
-10	Normal Voltage	0.0152	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0054	
20	Maximum Voltage	0.0153	
20	Normal Voltage	0.0238	
20	Battery End Point	0.0092	

Note:

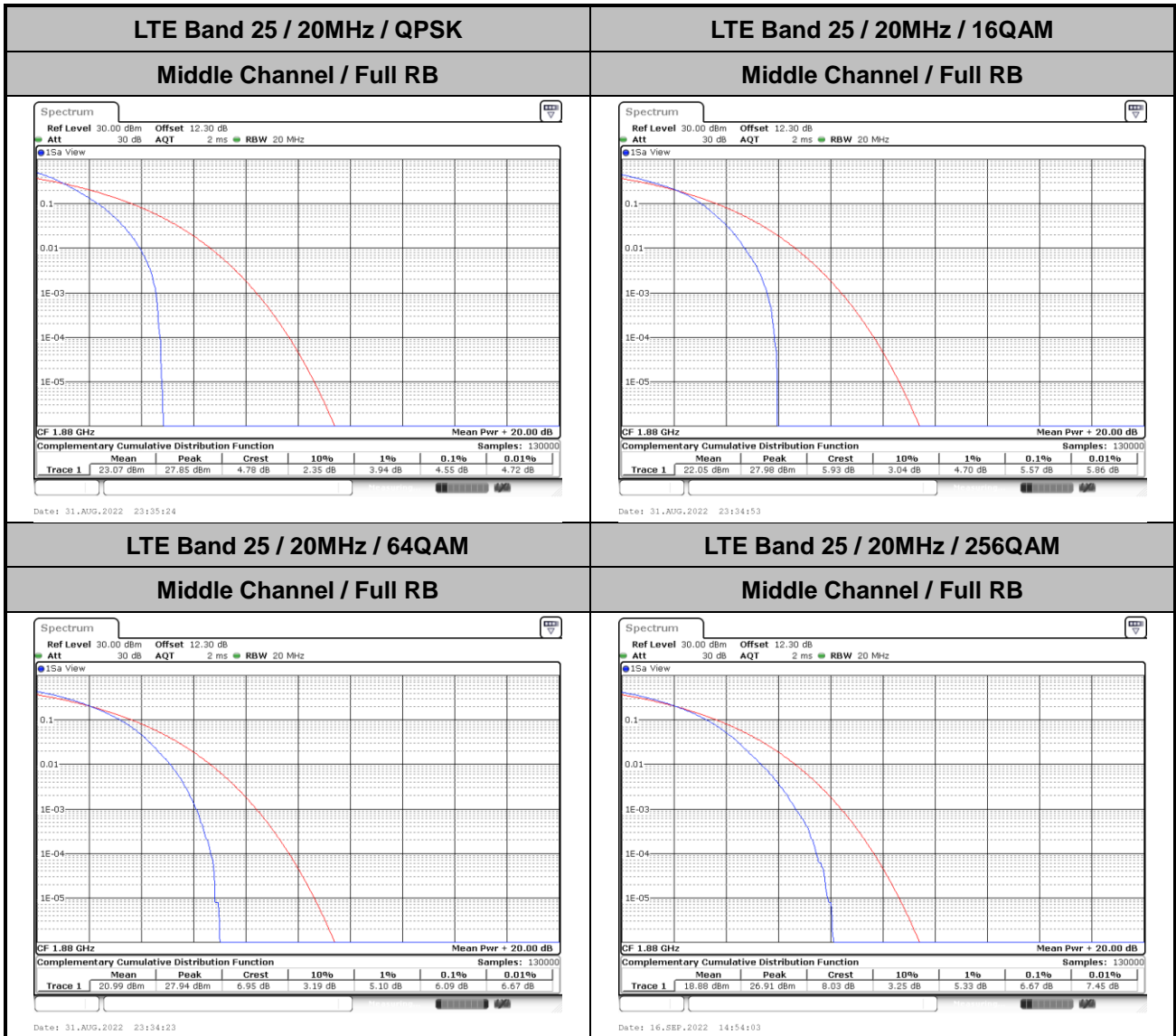
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.3 V. ; Maximum Voltage =4.25 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 25

Peak-to-Average Ratio

Mode	LTE Band 25 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.55	5.57	6.09	6.67	PASS





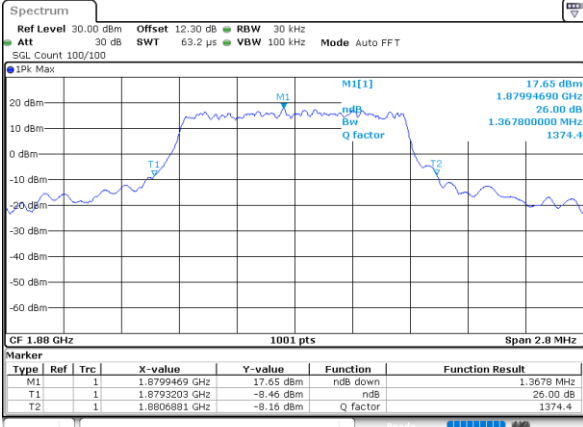
26dB Bandwidth

Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.37	1.39	3.10	3.06	5.13	4.88	9.83	9.65	14.72	14.45	19.02	18.90
Mode	LTE Band 25 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	1.35	1.30	3.07	3.06	4.81	5.04	10.01	9.91	14.54	14.51	19.10	18.70



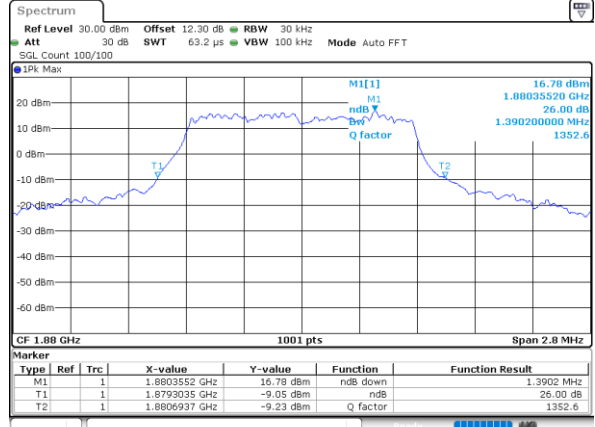
LTE Band 25

Middle Channel / 1.4MHz / QPSK



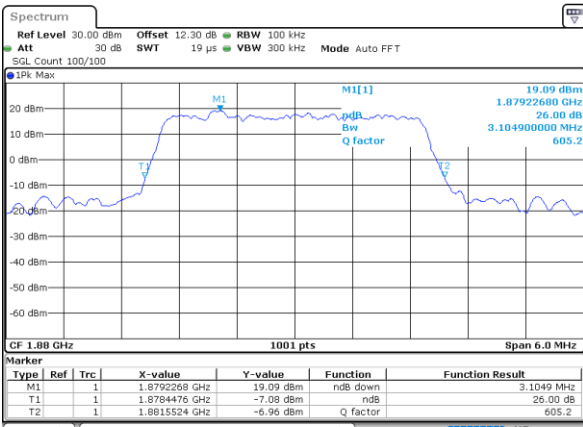
Date: 31.AUG.2022 21:27:48

Middle Channel / 1.4MHz / 16QAM



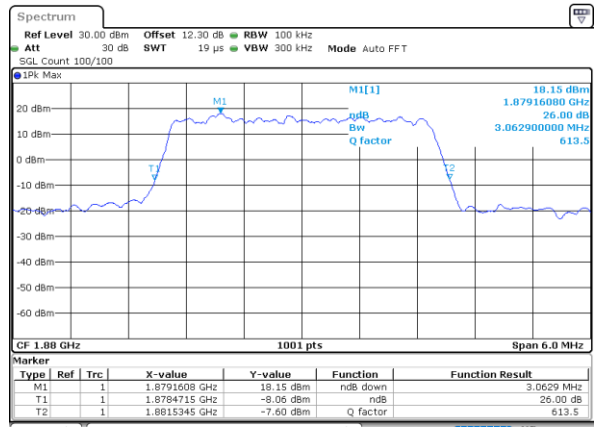
Date: 31.AUG.2022 22:04:27

Middle Channel / 3MHz / QPSK



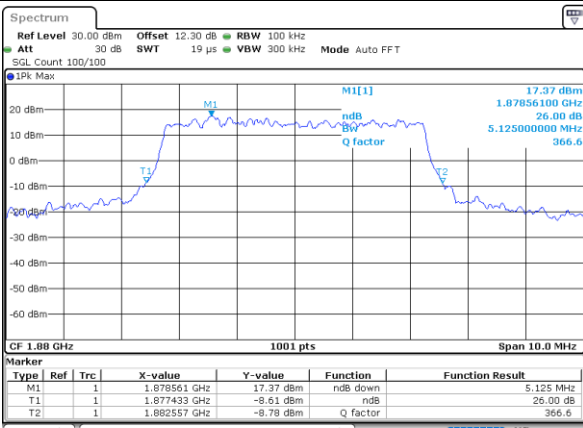
Date: 31.AUG.2022 22:23:55

Middle Channel / 3MHz / 16QAM



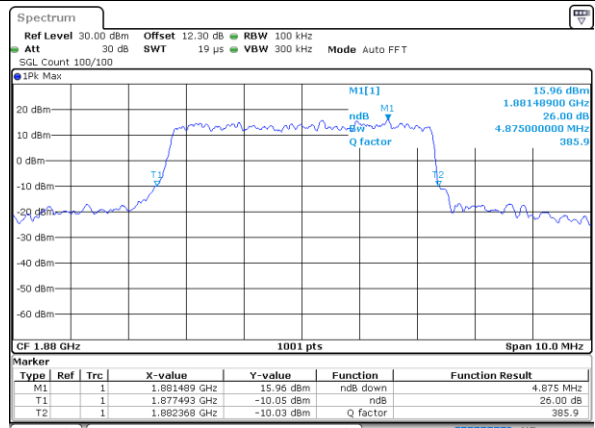
Date: 31.AUG.2022 22:24:24

Middle Channel / 5MHz / QPSK



Date: 31.AUG.2022 22:35:54

Middle Channel / 5MHz / 16QAM

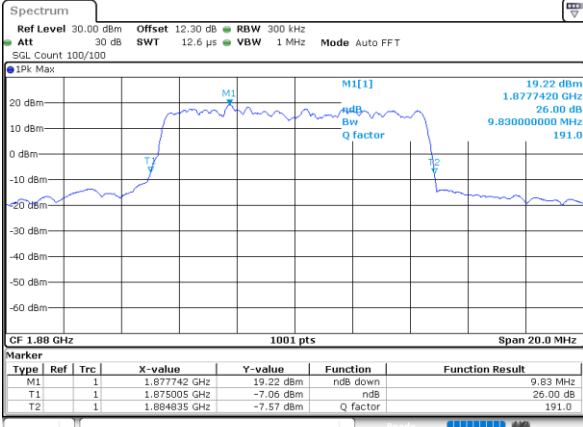


Date: 31.AUG.2022 22:36:24



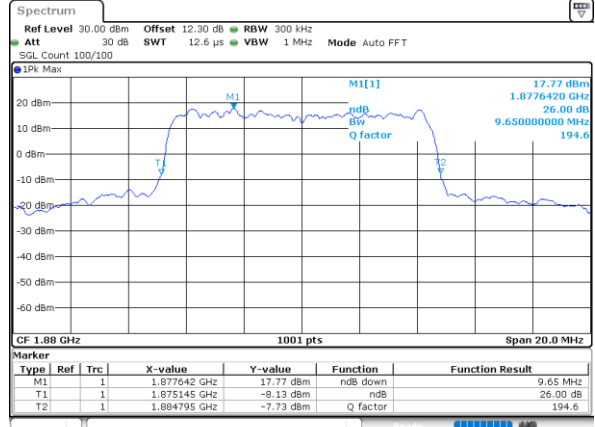
LTE Band 25

Middle Channel / 10MHz / QPSK



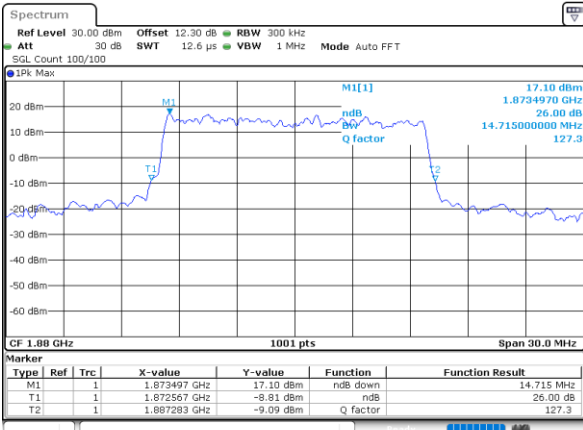
Date: 31.AUG.2022 22:51:53

Middle Channel / 10MHz / 16QAM



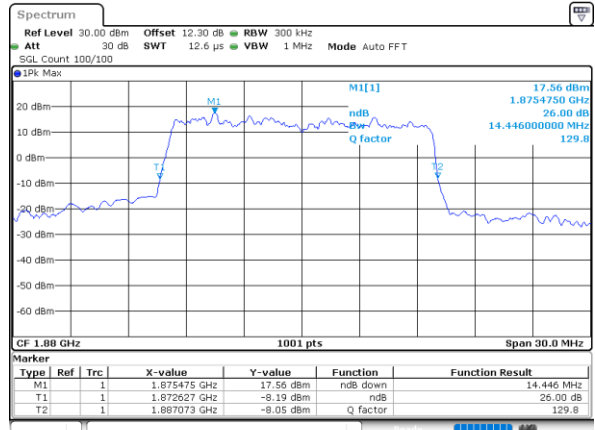
Date: 31.AUG.2022 22:52:23

Middle Channel / 15MHz / QPSK



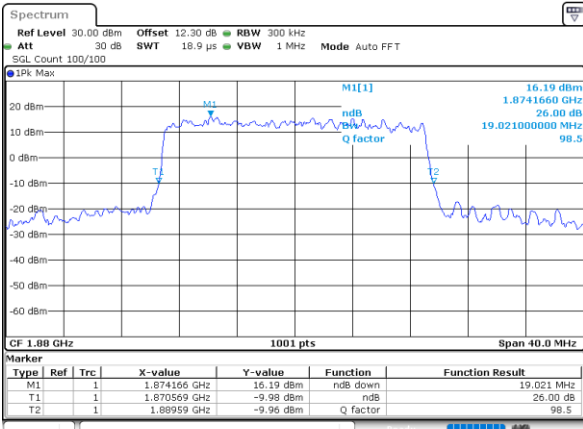
Date: 31.AUG.2022 23:11:52

Middle Channel / 15MHz / 16QAM



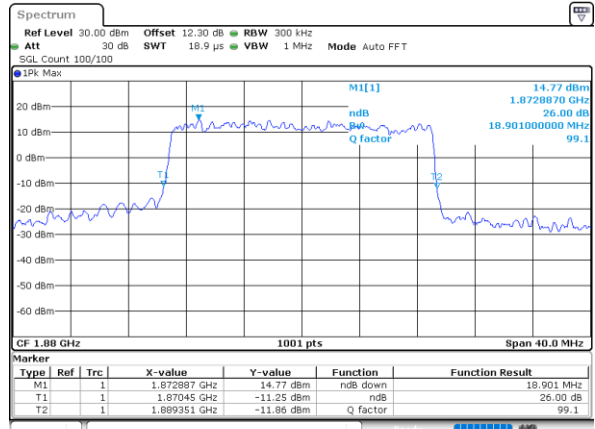
Date: 31.AUG.2022 23:12:01

Middle Channel / 20MHz / QPSK



Date: 31.AUG.2022 23:23:51

Middle Channel / 20MHz / 16QAM

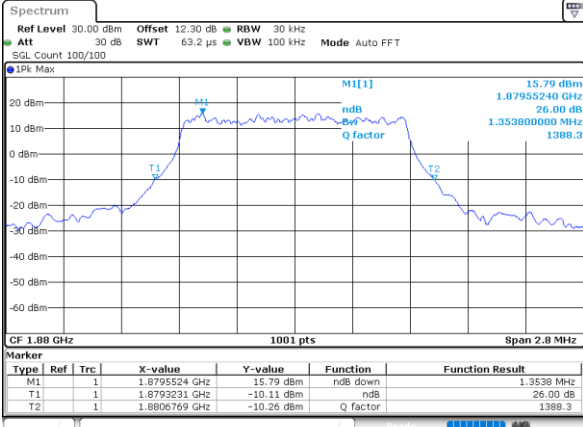


Date: 31.AUG.2022 23:24:20



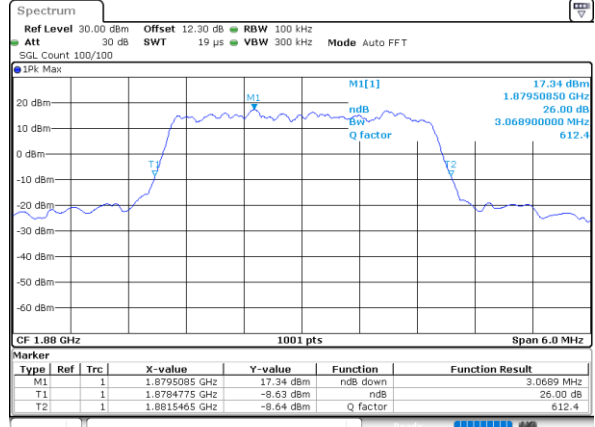
LTE Band 25

Middle Channel / 1.4MHz / 64QAM



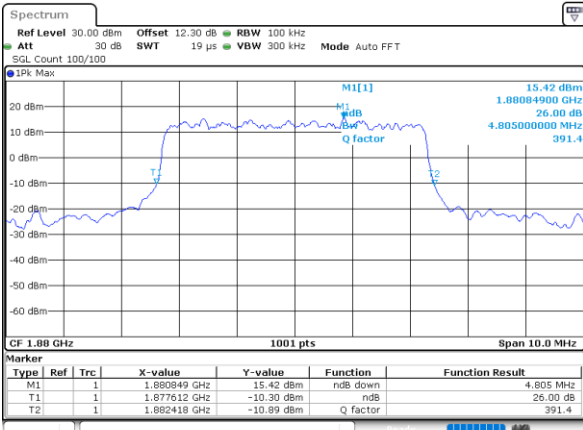
Date: 31.AUG.2022 22:12:20

Middle Channel / 3MHz / 64QAM



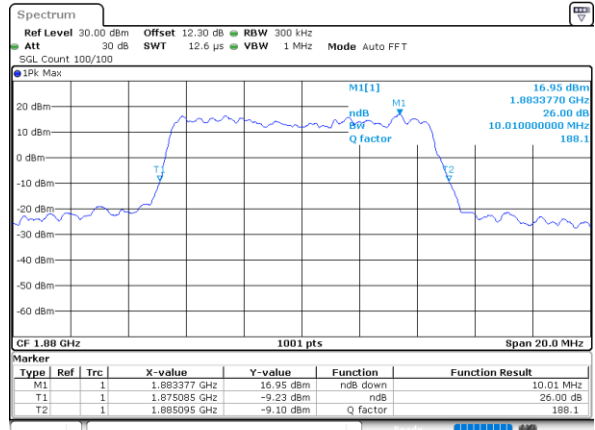
Date: 31.AUG.2022 22:16:24

Middle Channel / 5MHz / 64QAM



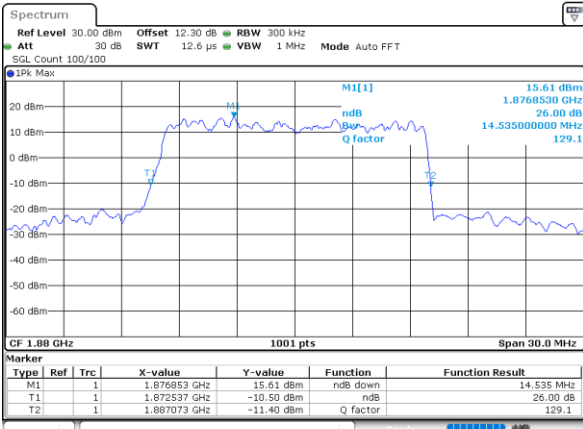
Date: 31.AUG.2022 22:44:17

Middle Channel / 10MHz / 64QAM



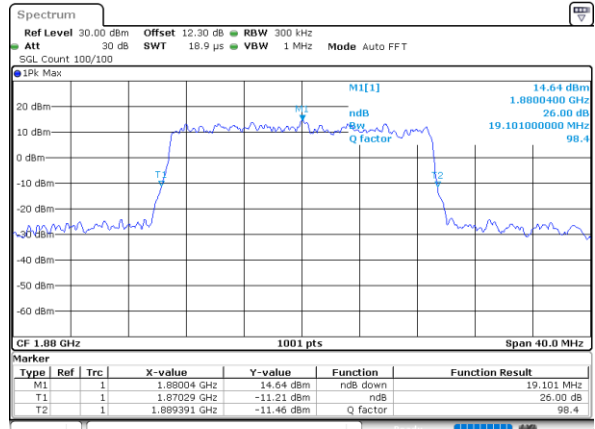
Date: 31.AUG.2022 23:00:16

Middle Channel / 15MHz / 64QAM



Date: 31.AUG.2022 23:04:21

Middle Channel / 20MHz / 64QAM



Date: 31.AUG.2022 23:13:14