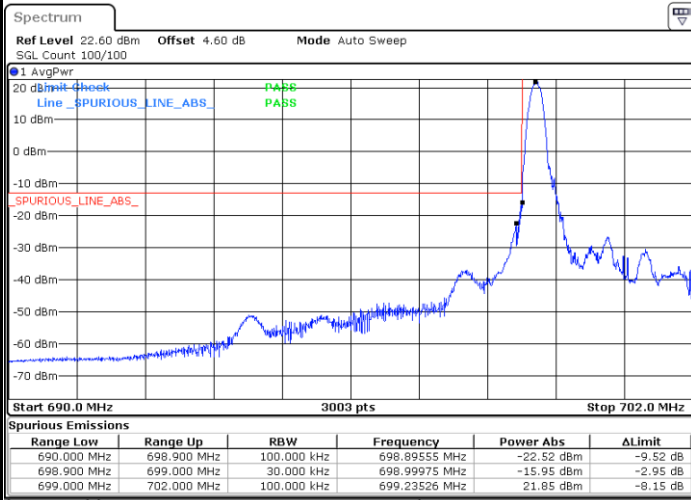




LTE Band 12 / 3MHz / QPSK

Lowest Band Edge / 1RB



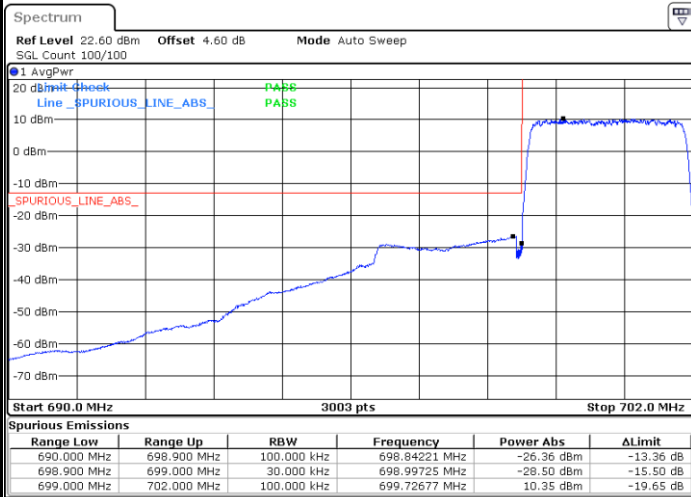
Date: 8 SEP.2022 17:48:38

Highest Band Edge / 1 RB



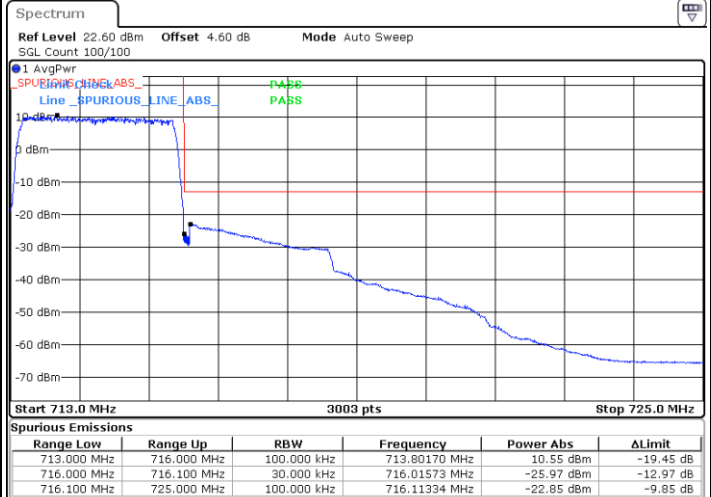
Date: 8 SEP.2022 17:58:42

Lowest Band Edge / Full RB



Date: 8 SEP.2022 17:53:47

Highest Band Edge / Full RB

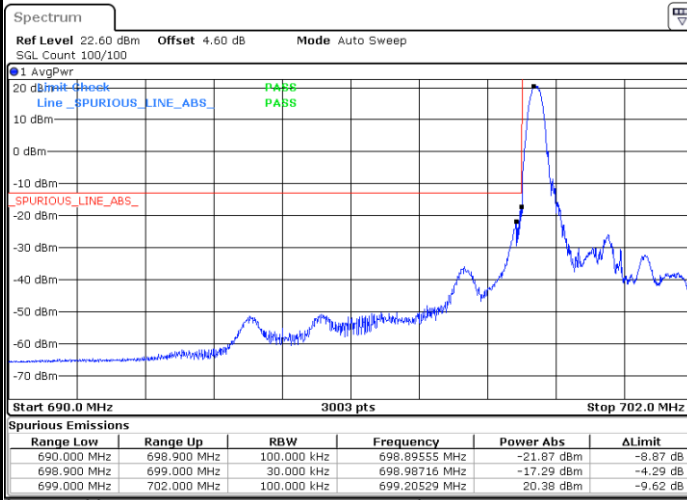


Date: 8 SEP.2022 18:03:09



LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



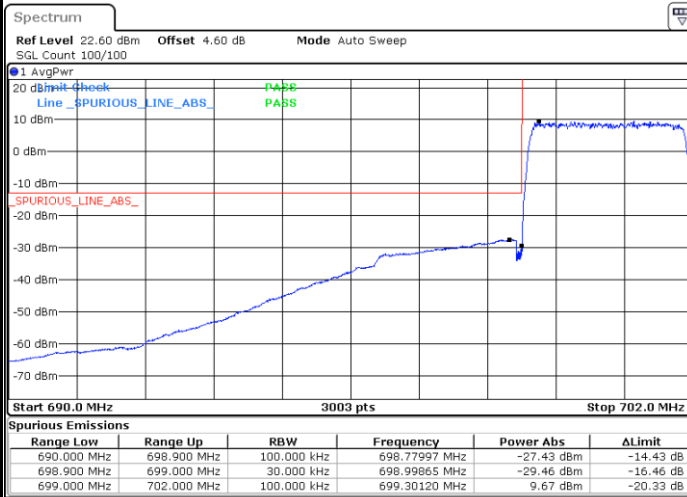
Date: 8 SEP.2022 17:49:38

Highest Band Edge / 1 RB



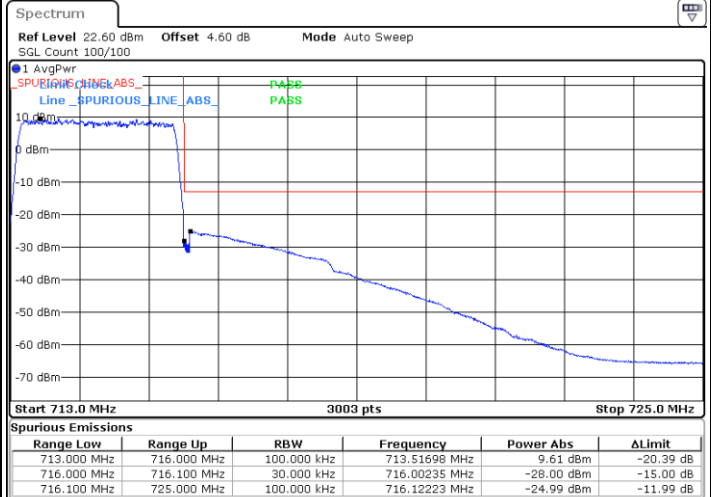
Date: 8 SEP.2022 17:59:40

Lowest Band Edge / Full RB



Date: 8 SEP.2022 17:53:02

Highest Band Edge / Full RB

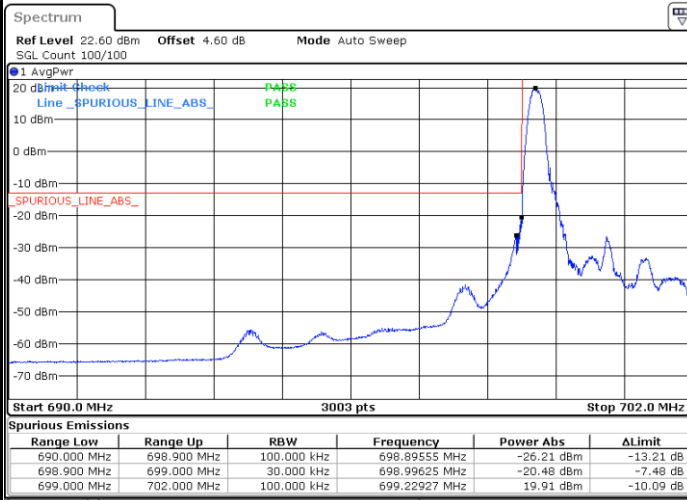


Date: 8 SEP.2022 18:02:15



LTE Band 12 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



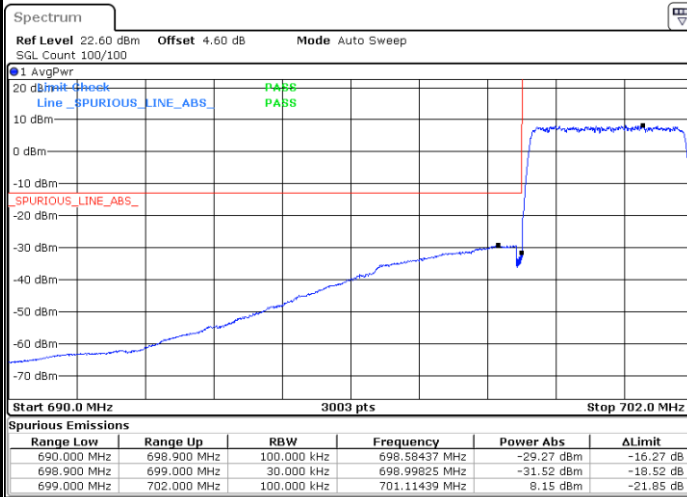
Date: 8 SEP.2022 17:50:57

Highest Band Edge / 1 RB



Date: 8 SEP.2022 18:00:32

Lowest Band Edge / Full RB



Date: 8 SEP.2022 17:52:02

Highest Band Edge / Full RB

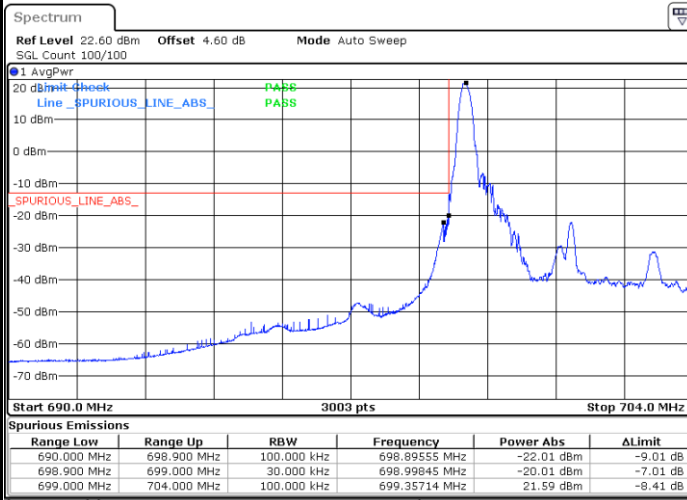


Date: 8 SEP.2022 18:01:21



LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



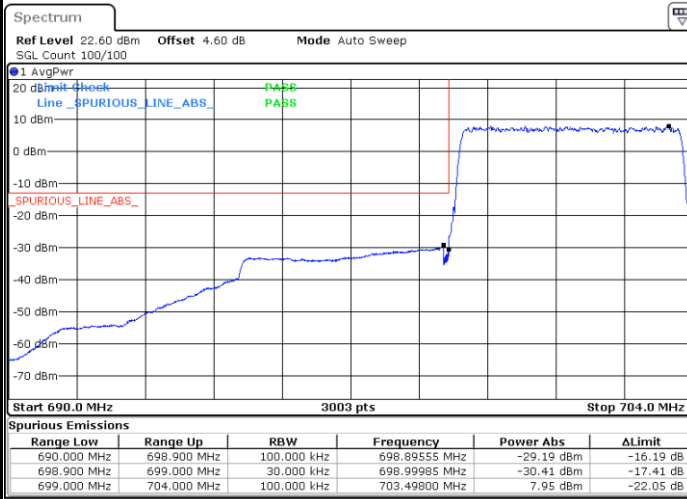
Date: 8 SEP.2022 19:14:16

Highest Band Edge / 1 RB



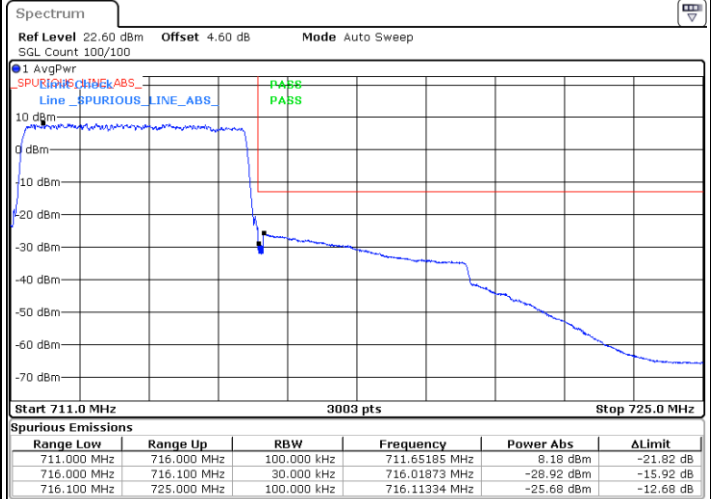
Date: 8 SEP.2022 19:19:14

Lowest Band Edge / Full RB



Date: 8 SEP.2022 19:07:15

Highest Band Edge / Full RB

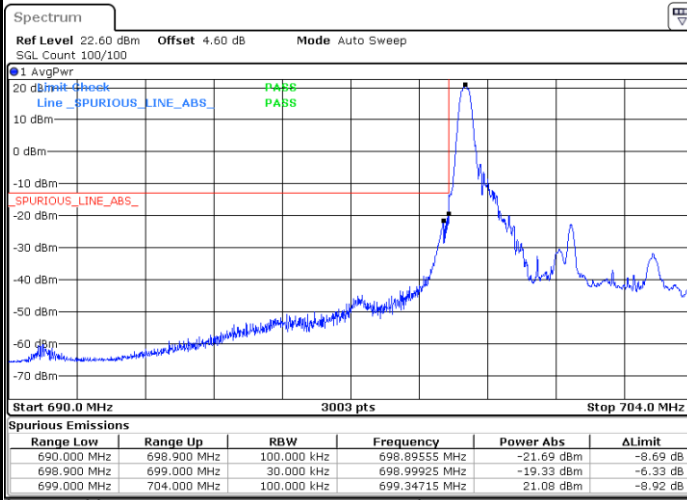


Date: 8 SEP.2022 19:24:23



LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



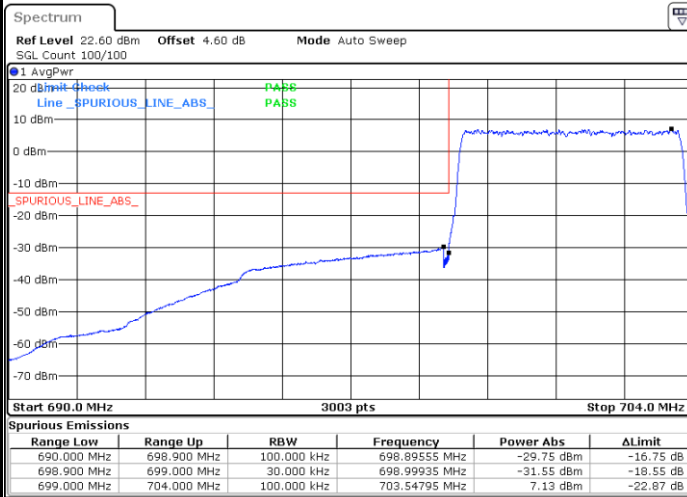
Date: 8 SEP.2022 19:13:16

Highest Band Edge / 1 RB



Date: 8 SEP.2022 19:20:18

Lowest Band Edge / Full RB



Date: 8 SEP.2022 19:08:05

Highest Band Edge / Full RB

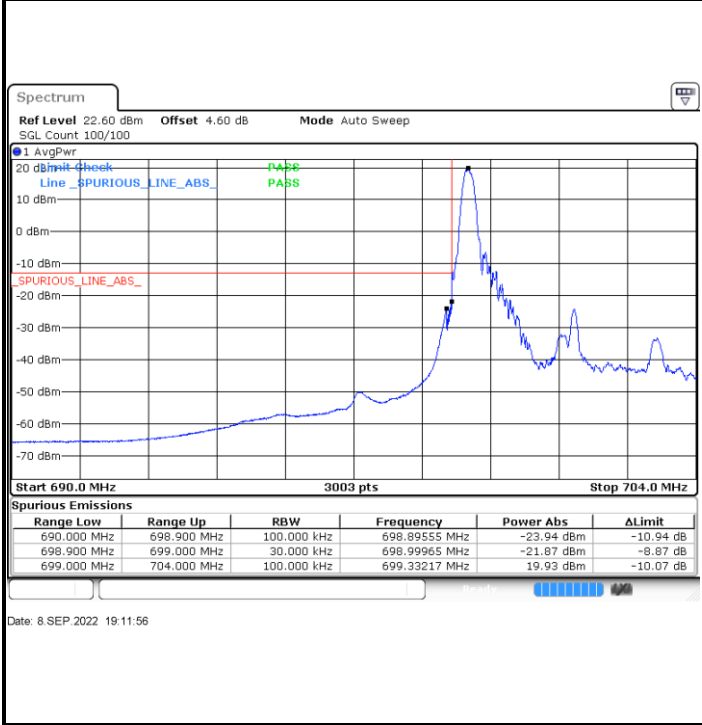


Date: 8 SEP.2022 19:23:33

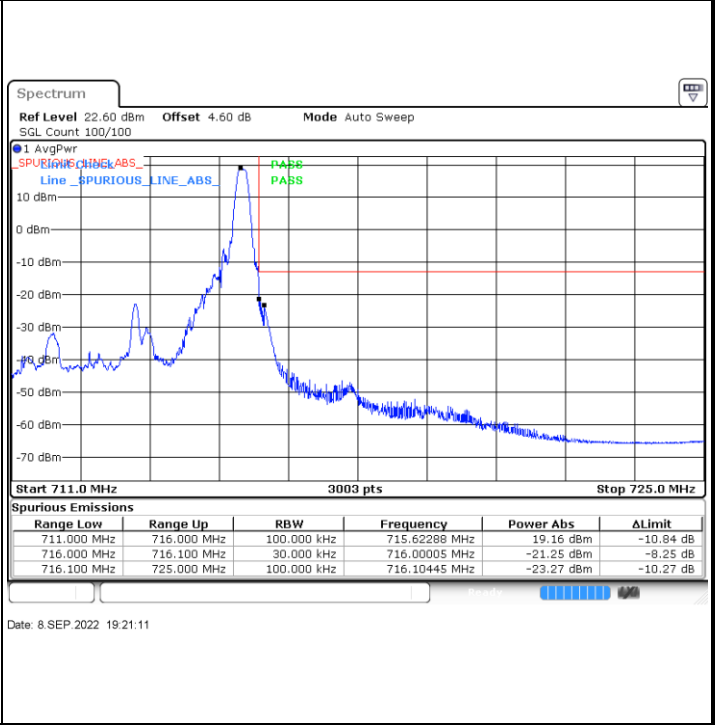


LTE Band 12 / 5MHz / 64QAM

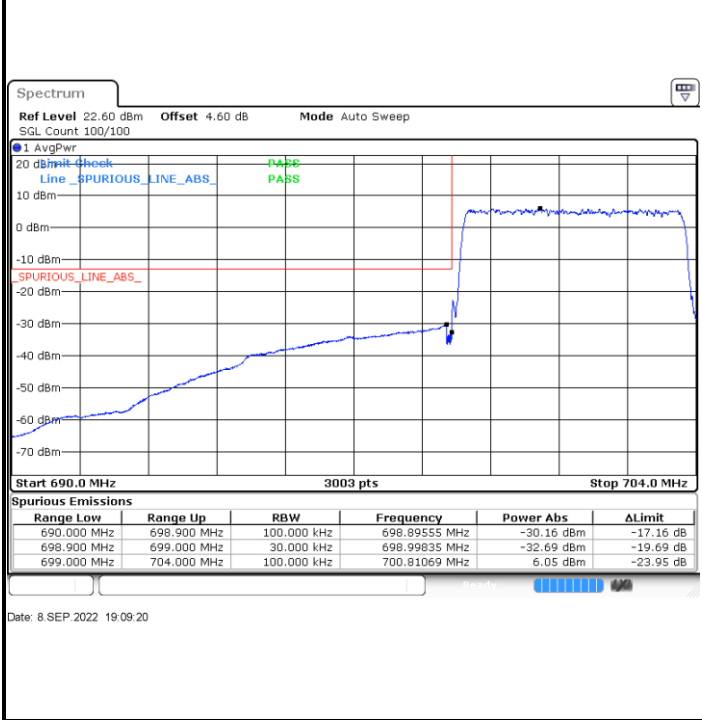
Lowest Band Edge / 1RB



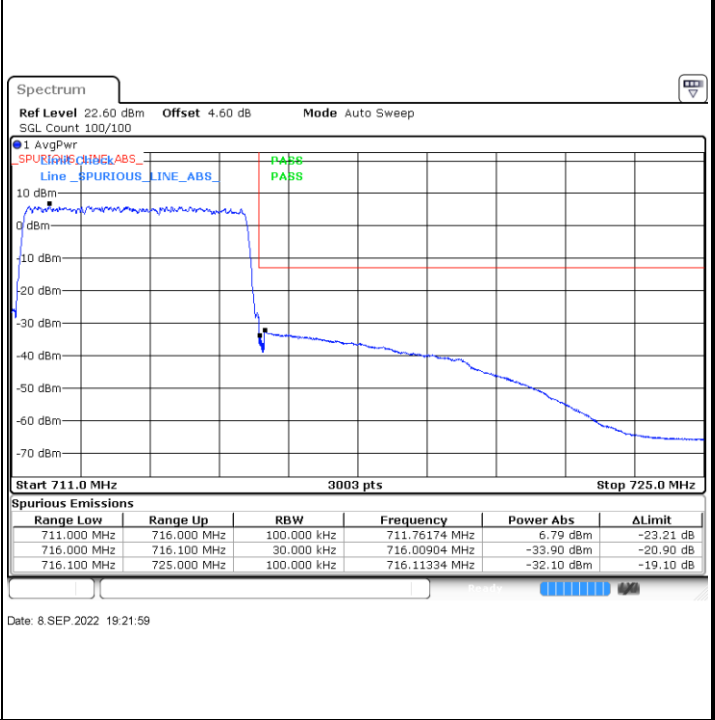
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



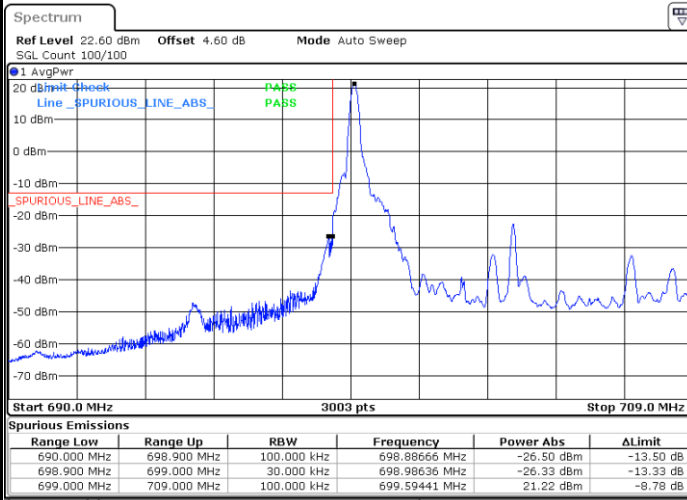
Highest Band Edge / Full RB





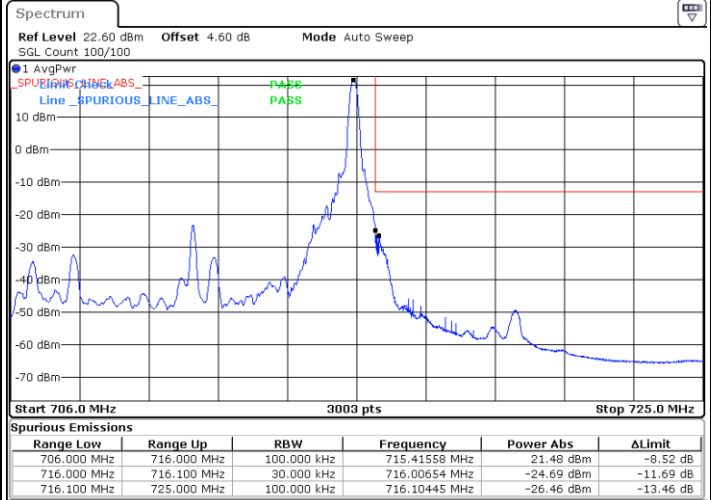
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



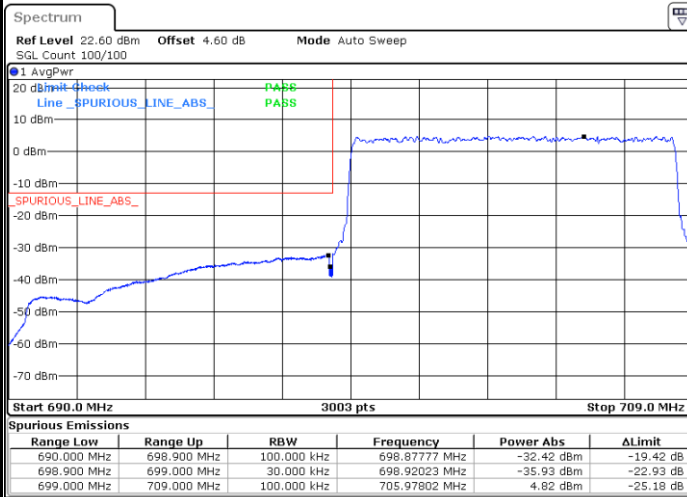
Date: 8 SEP.2022 19:31:31

Highest Band Edge / 1 RB



Date: 8 SEP.2022 19:52:19

Lowest Band Edge / Full RB



Date: 8 SEP.2022 19:26:01

Highest Band Edge / Full RB

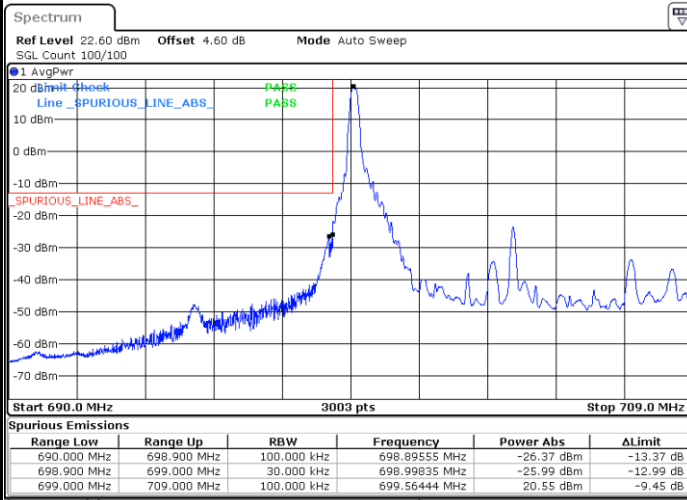


Date: 8 SEP.2022 19:43:45



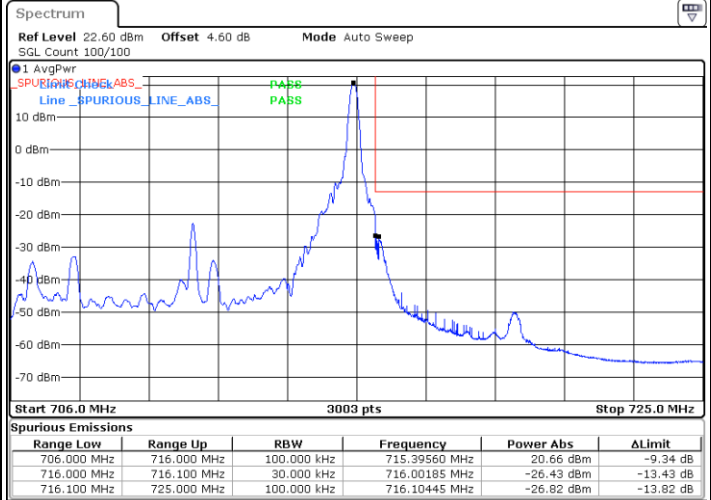
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



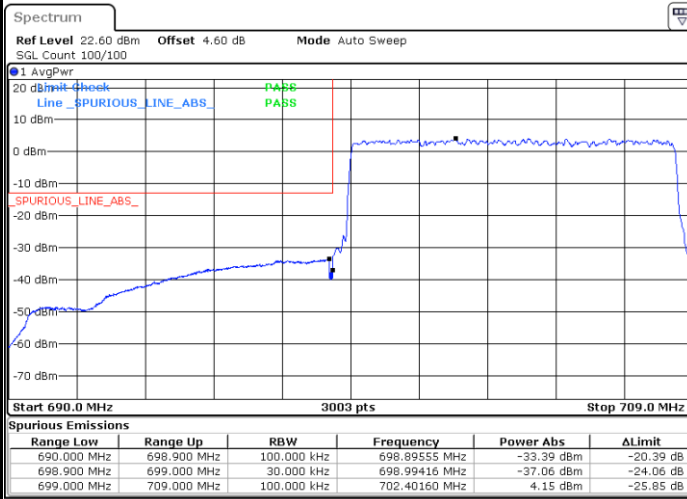
Date: 8 SEP.2022 19:30:23

Highest Band Edge / 1 RB



Date: 8 SEP.2022 19:49:51

Lowest Band Edge / Full RB



Date: 8 SEP.2022 19:27:04

Highest Band Edge / Full RB

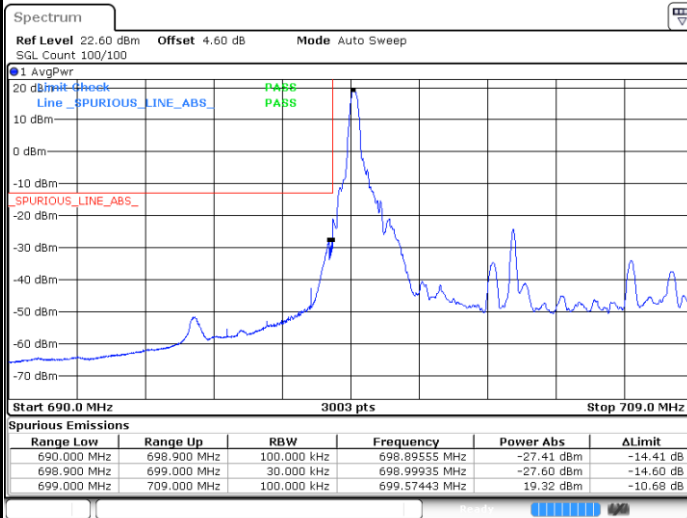


Date: 8 SEP.2022 19:45:06



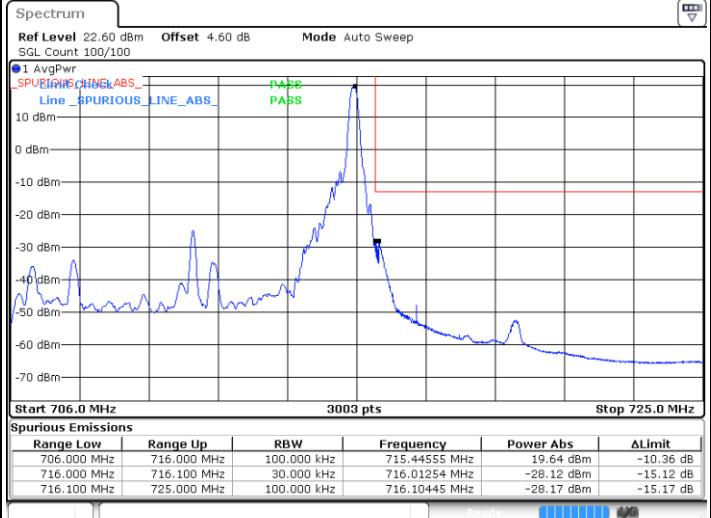
LTE Band 12 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



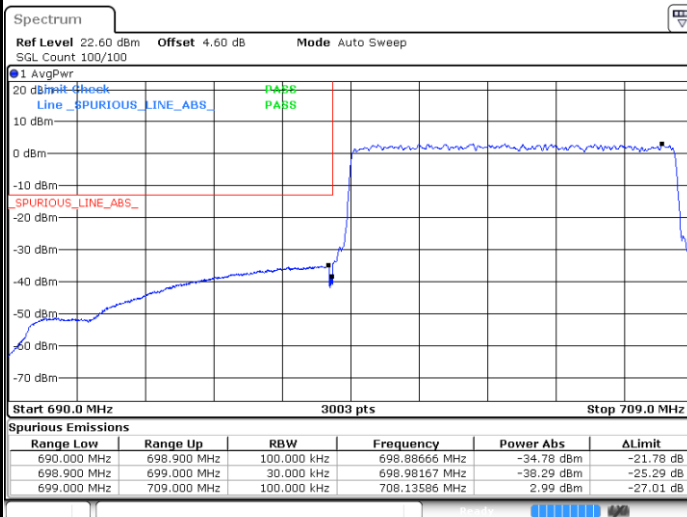
Date: 8 SEP.2022 19:29:22

Highest Band Edge / 1 RB



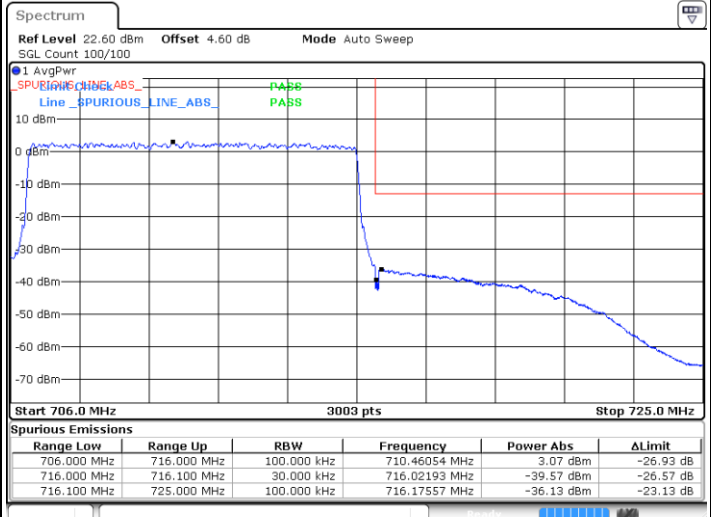
Date: 8 SEP.2022 19:47:56

Lowest Band Edge / Full RB



Date: 8 SEP.2022 19:28:24

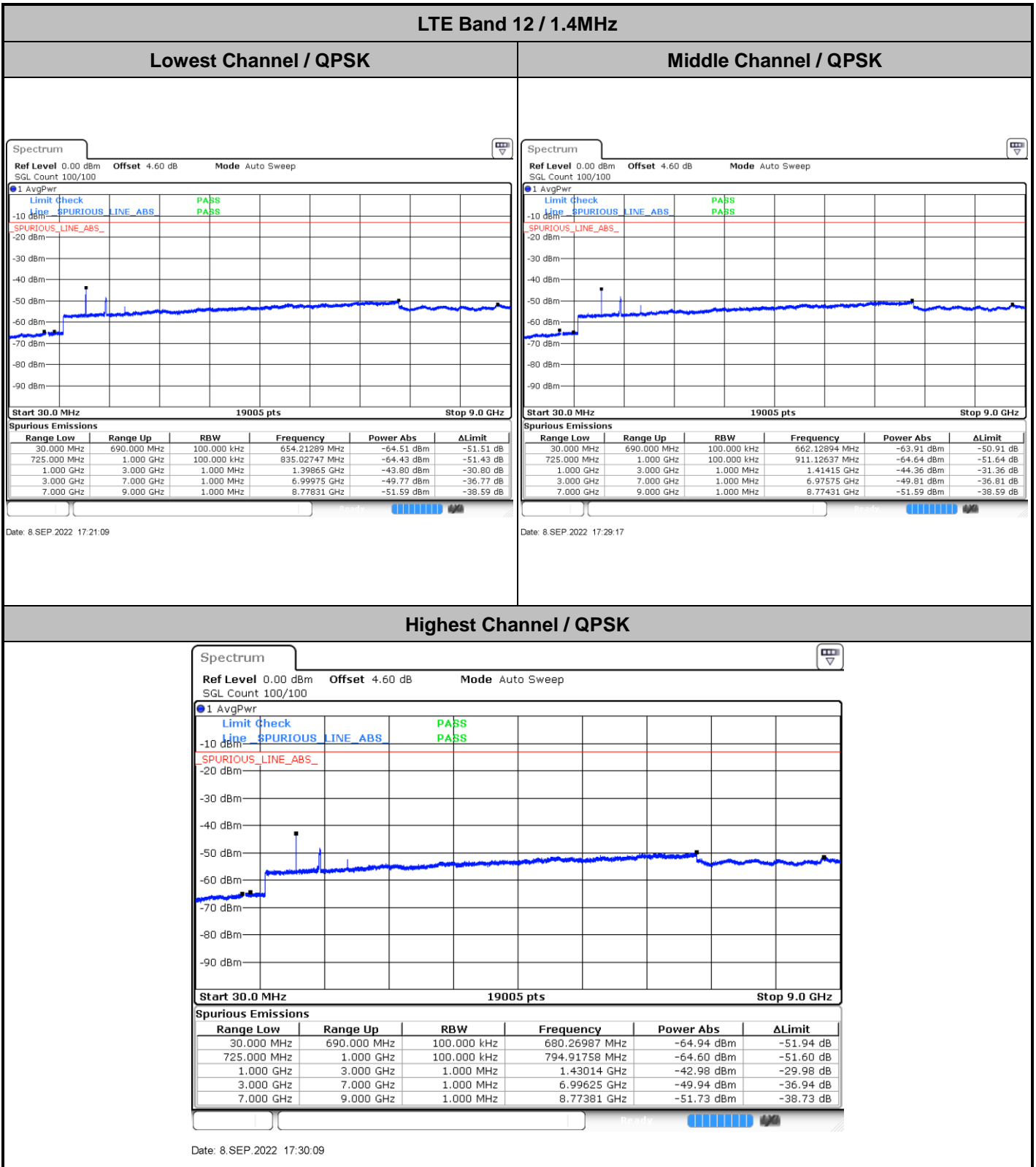
Highest Band Edge / Full RB



Date: 8 SEP.2022 19:46:28



Conducted Spurious Emission

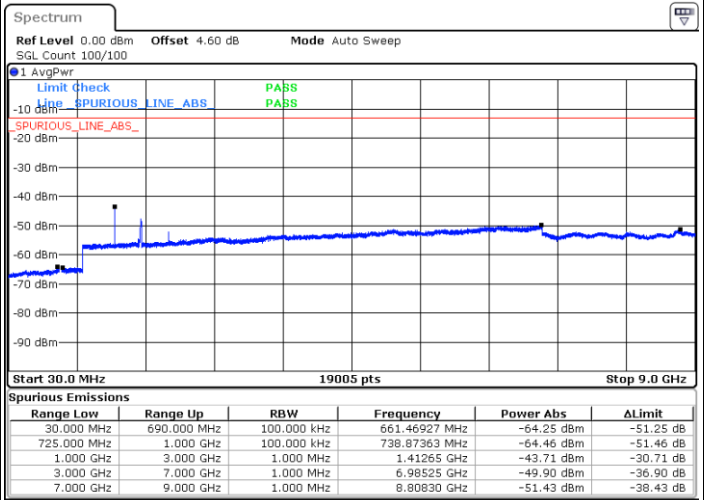
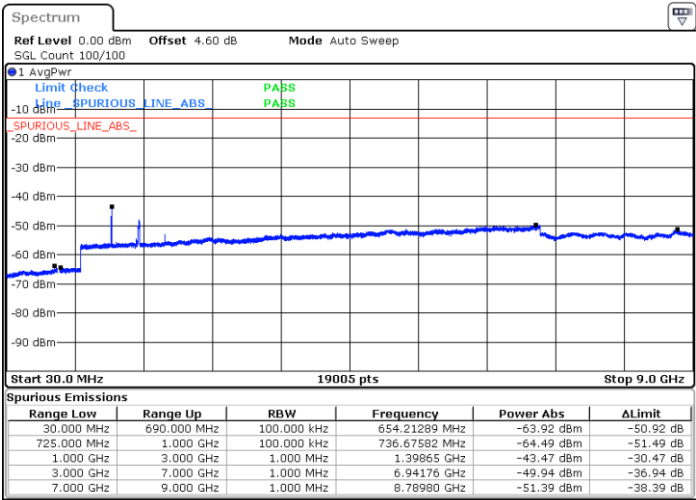




LTE Band 12 / 3MHz

Lowest Channel / QPSK

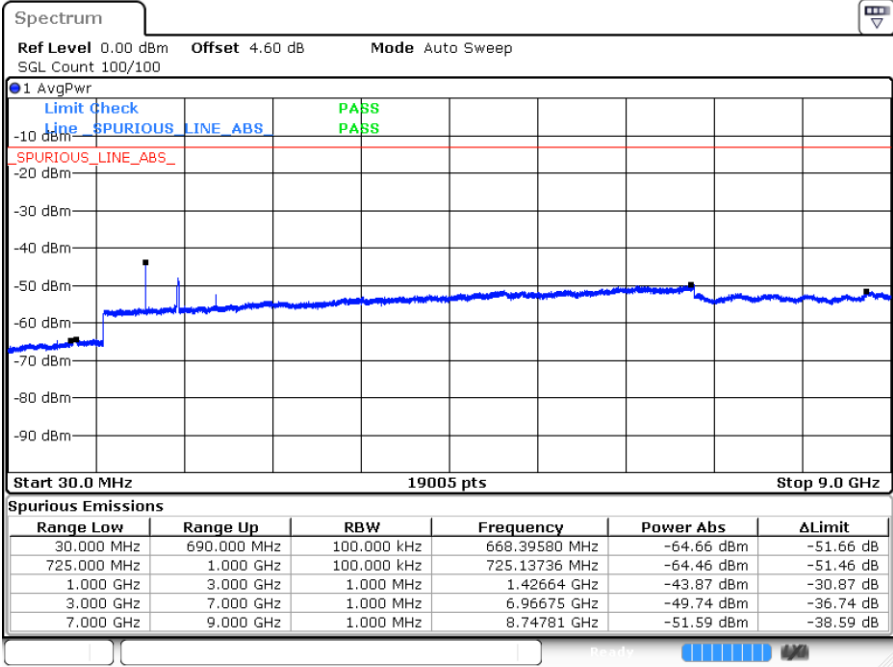
Middle Channel / QPSK



Date: 8 SEP.2022 17:47:52

Date: 8 SEP.2022 17:55:17

Highest Channel / QPSK



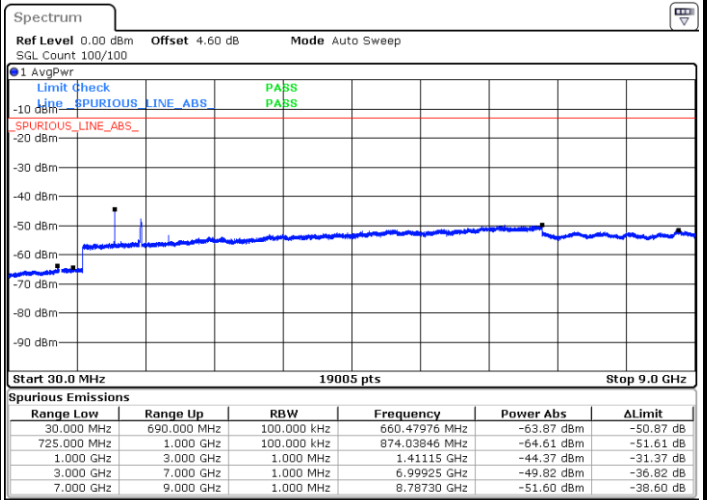
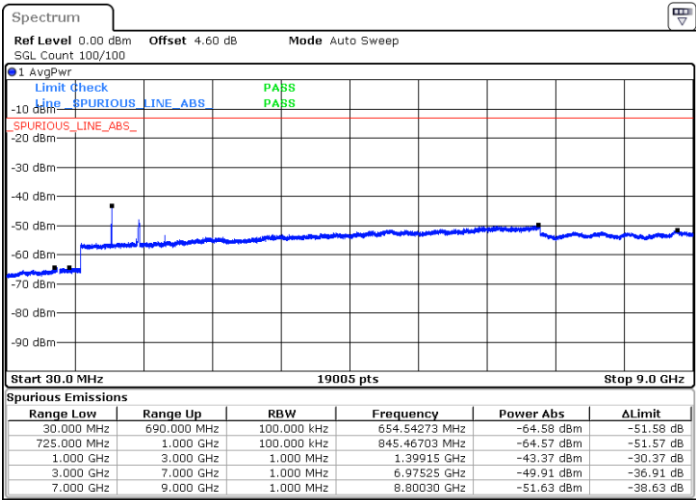
Date: 8 SEP.2022 17:57:42



LTE Band 12 / 5MHz

Lowest Channel / QPSK

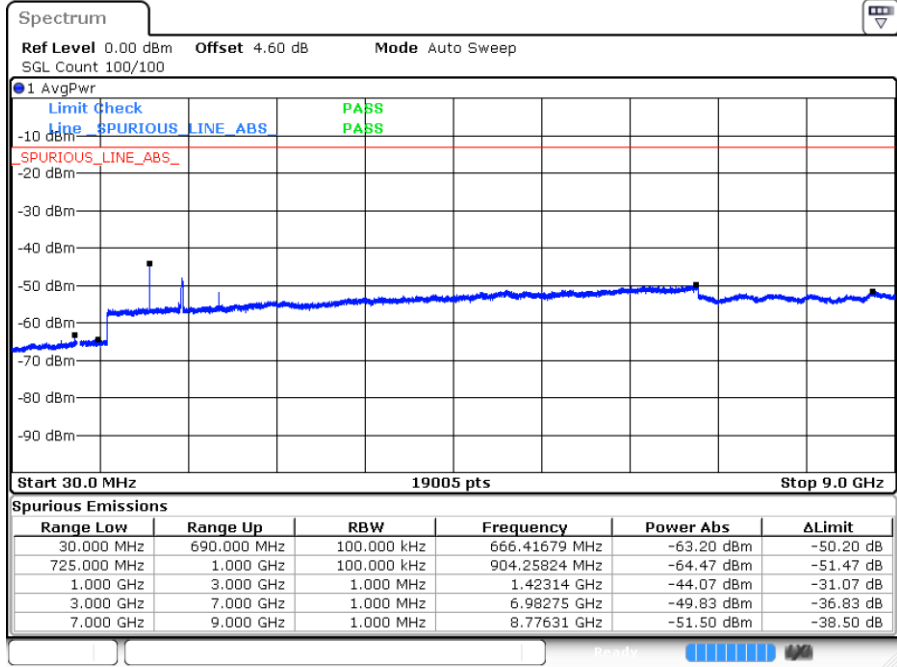
Middle Channel / QPSK



Date: 8 SEP.2022 19:15:16

Date: 8 SEP.2022 19:16:24

Highest Channel / QPSK



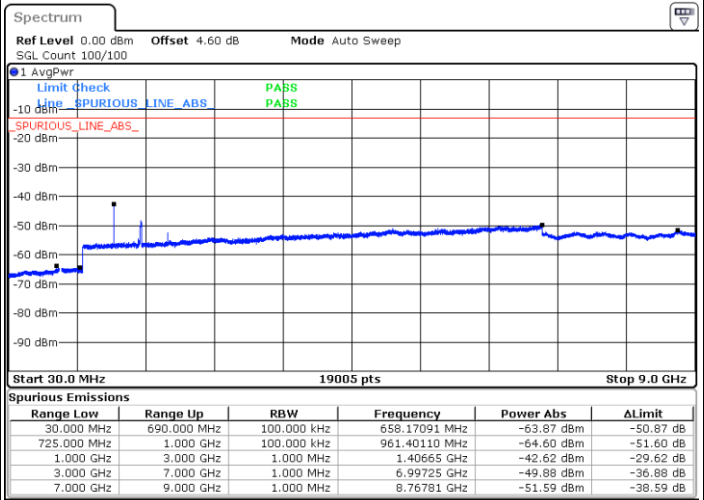
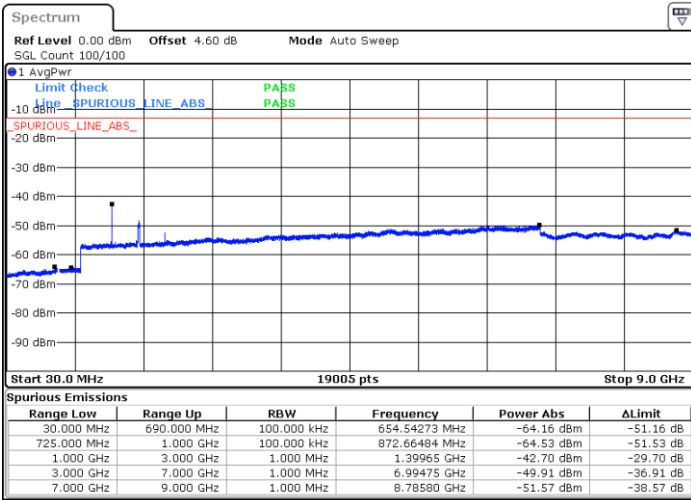
Date: 8 SEP.2022 19:17:56



LTE Band 12 / 10MHz

Lowest Channel / QPSK

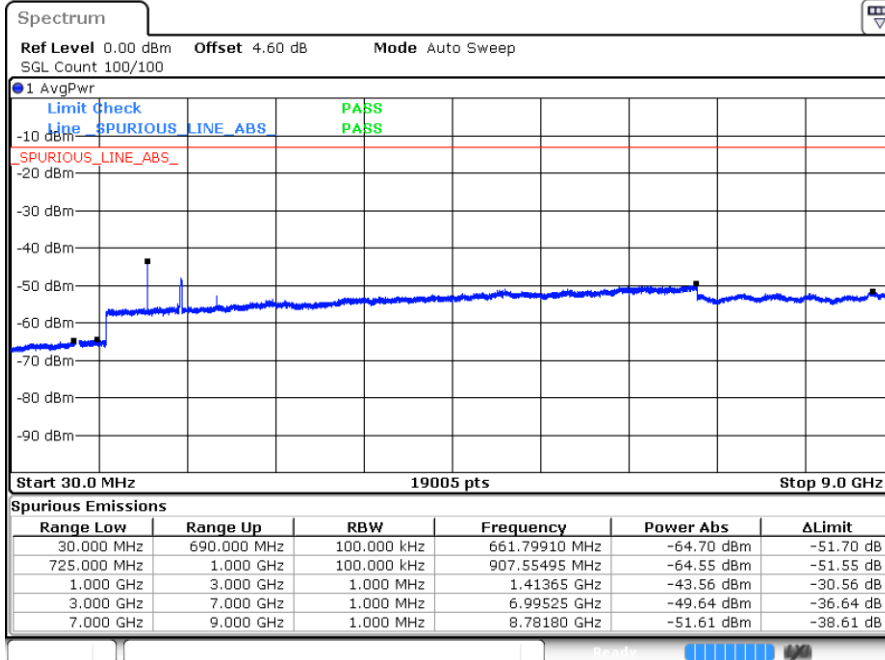
Middle Channel / QPSK



Date: 8 SEP.2022 19:32:18

Date: 8 SEP.2022 19:34:40

Highest Channel / QPSK



Date: 8 SEP.2022 19:56:49



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	0.0023	PASS
40	Normal Voltage	0.0019	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0016	
-20	Normal Voltage	0.0017	
-30	Normal Voltage	0.0024	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0019	

Note:

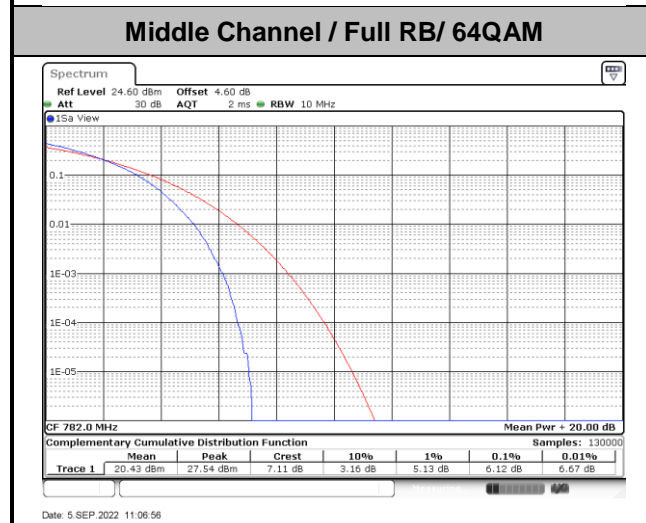
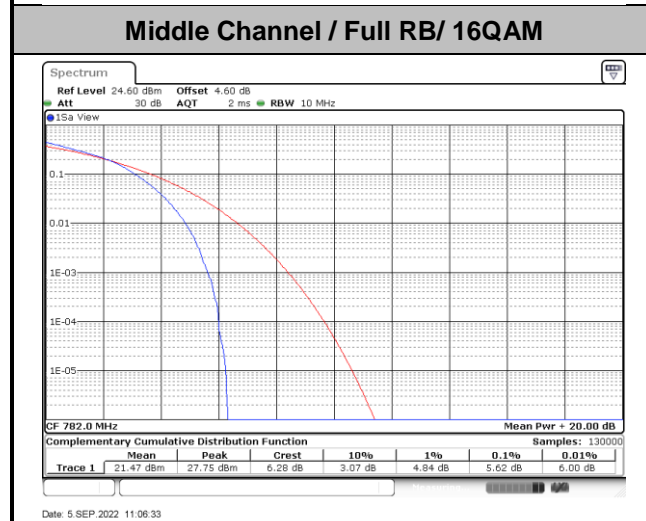
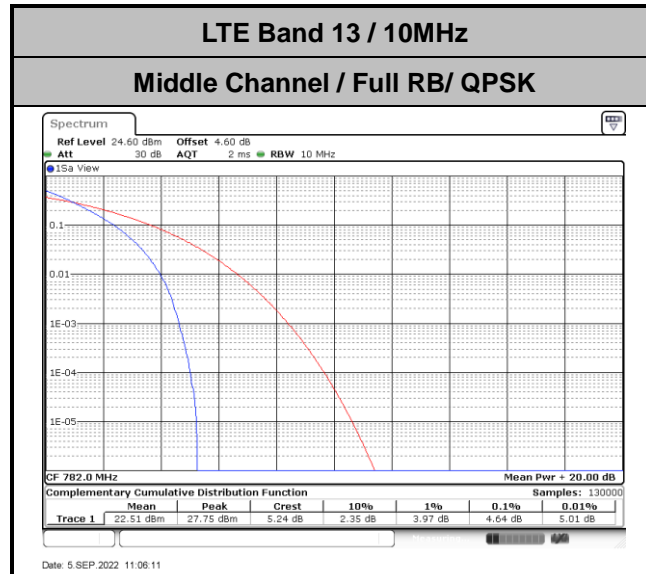
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

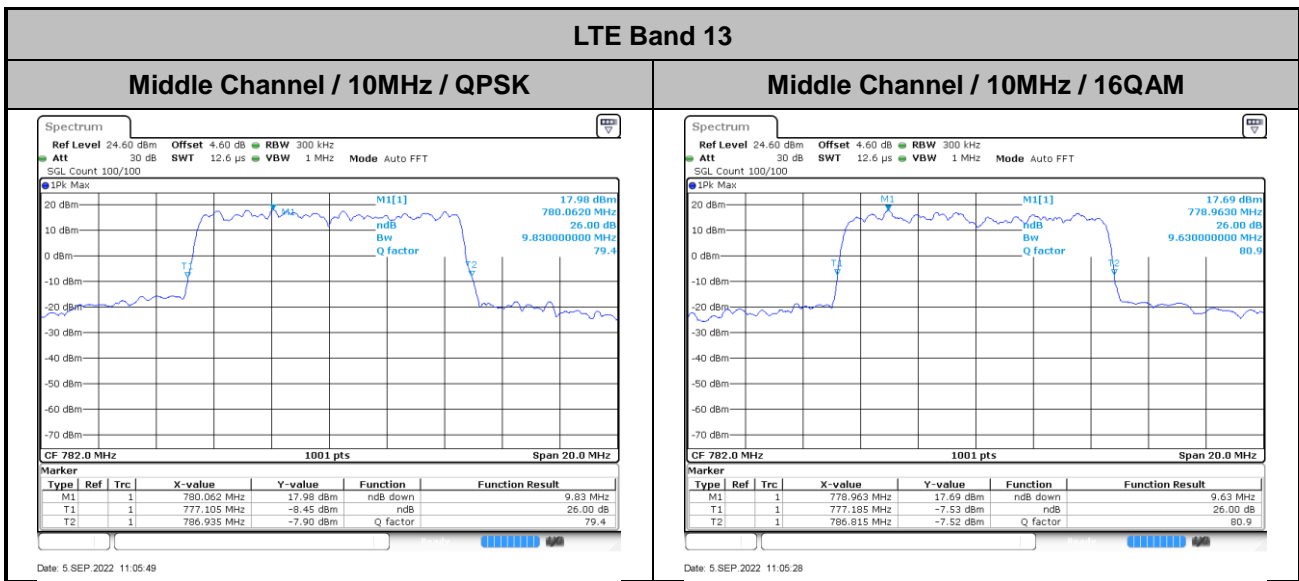
Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.64	5.62	6.12	PASS





26dB Bandwidth

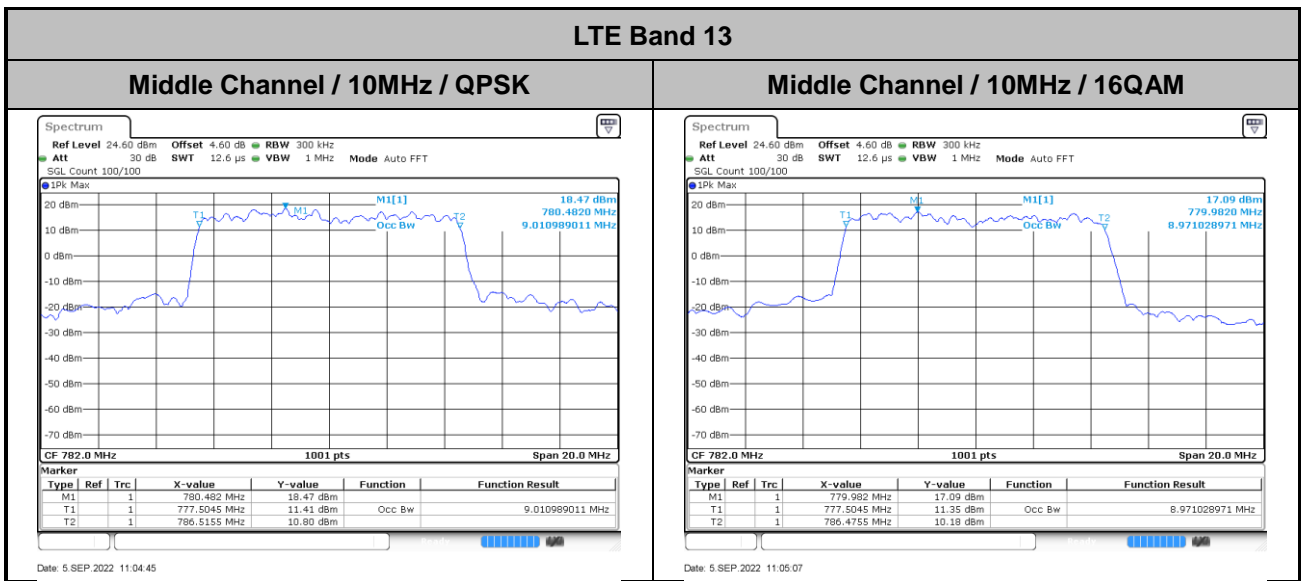
Mode	LTE Band 13 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.83	9.63





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.01	8.97



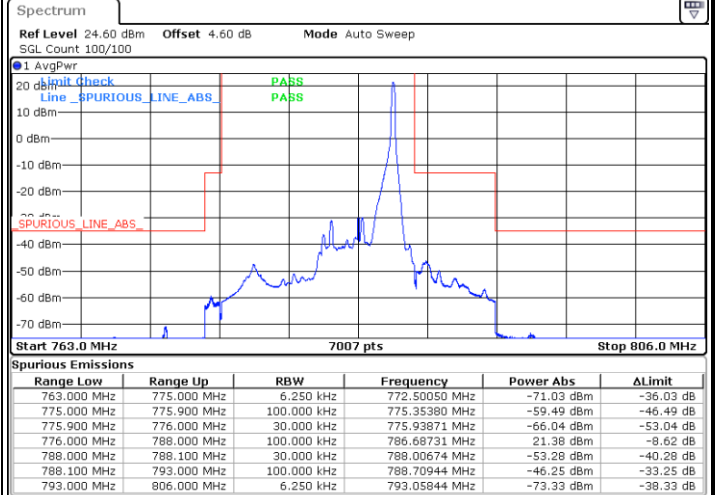
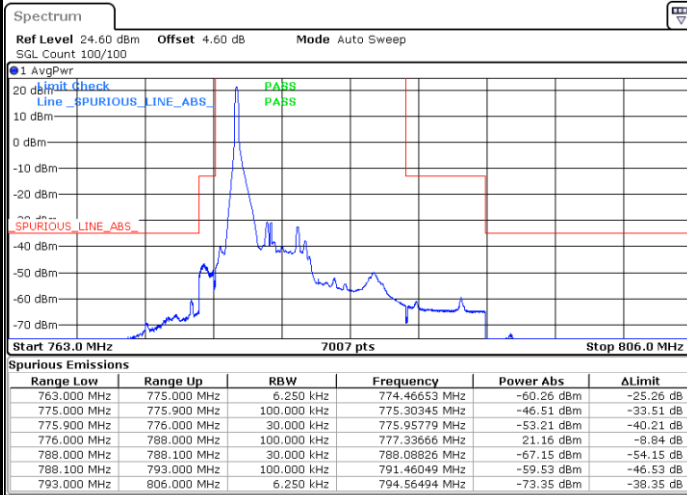


Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

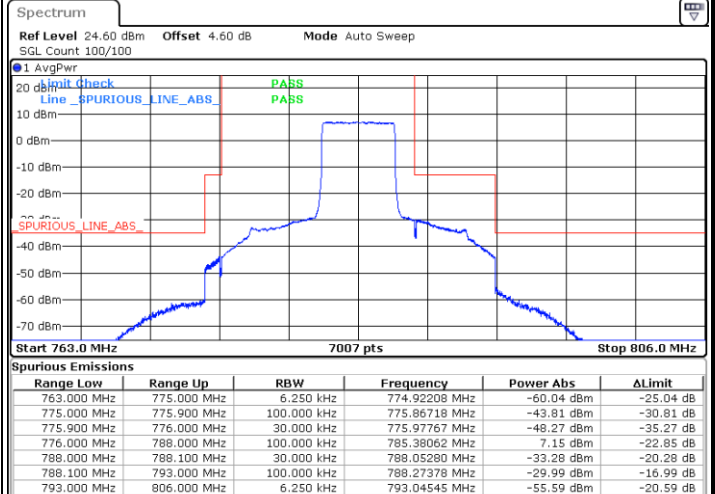
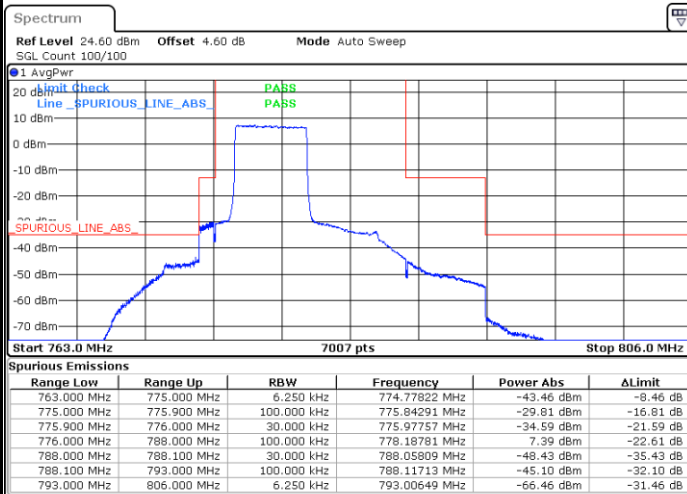


Date: 5 SEP.2022 10:23:54

Date: 5 SEP.2022 10:37:32

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5 SEP.2022 10:33:03

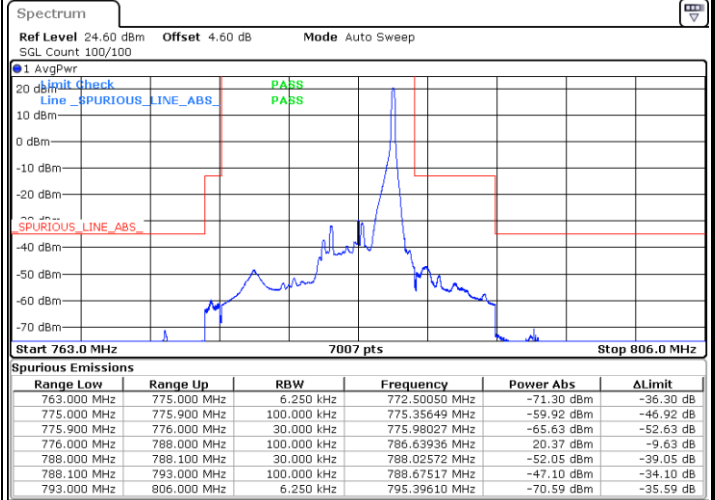
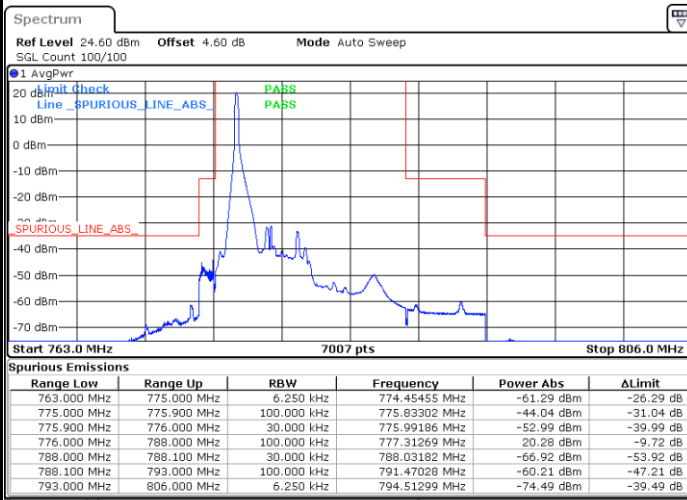
Date: 5 SEP.2022 10:46:41



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

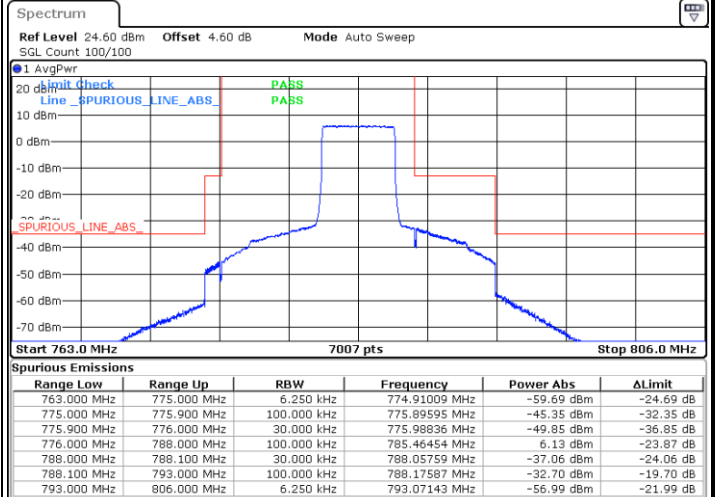
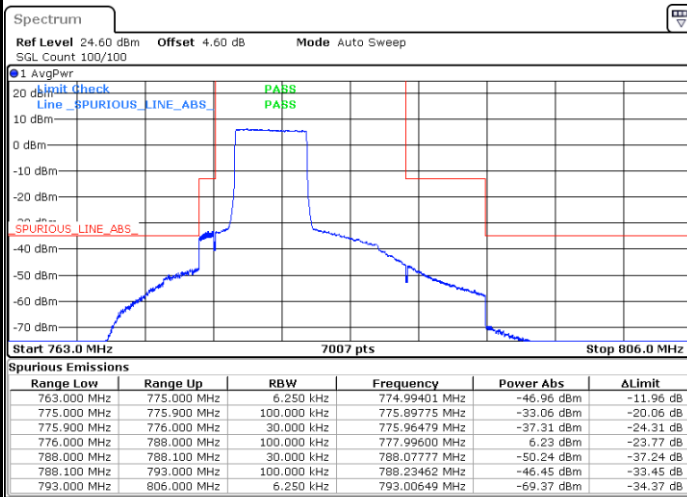


Date: 5 SEP.2022 10:25:44

Date: 5 SEP.2022 10:39:22

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5 SEP.2022 10:31:13

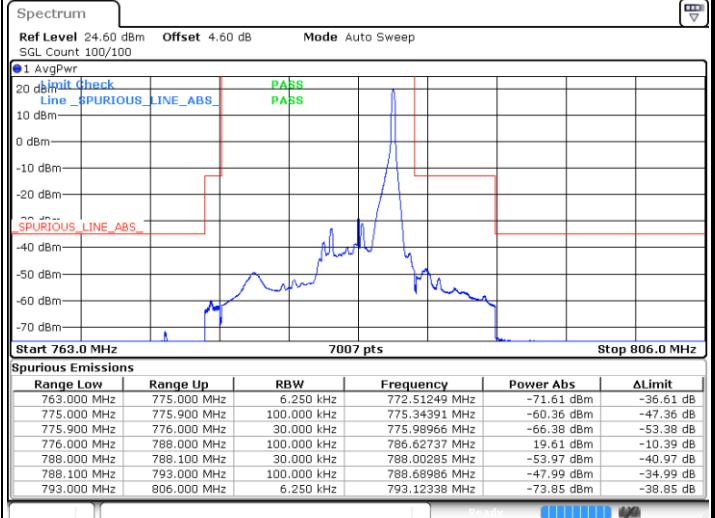
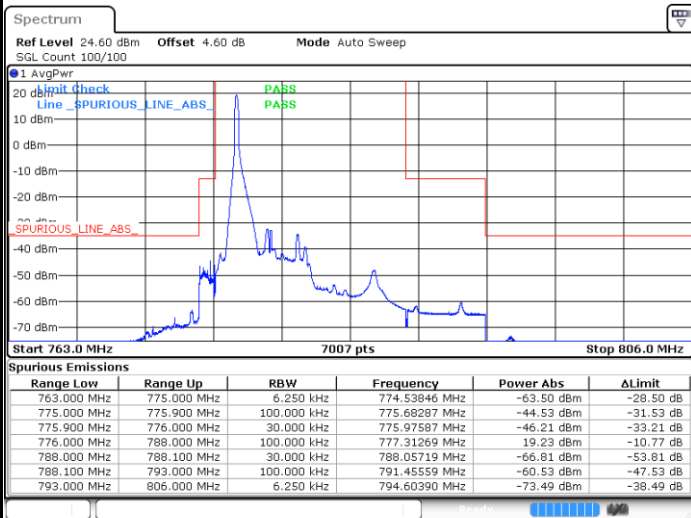
Date: 5 SEP.2022 10:44:52



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

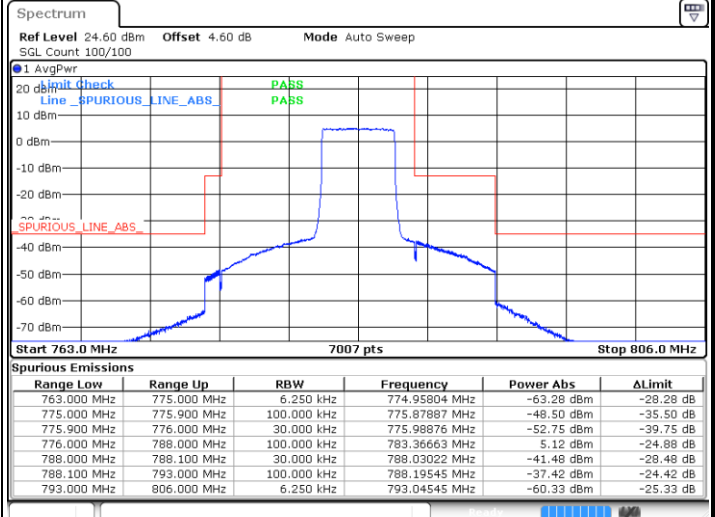
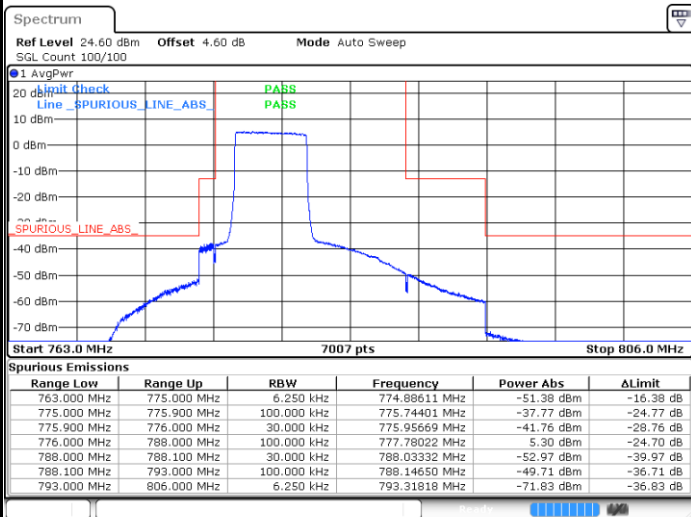


Date: 5 SEP.2022 10:27:34

Date: 5 SEP.2022 10:41:12

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5 SEP.2022 10:29:23

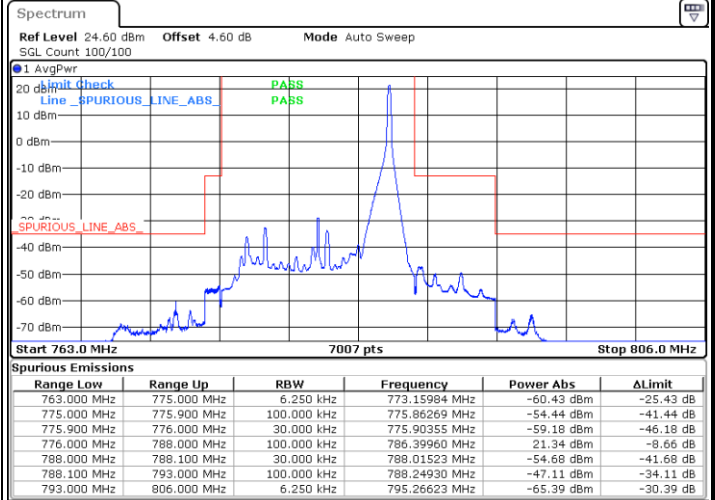
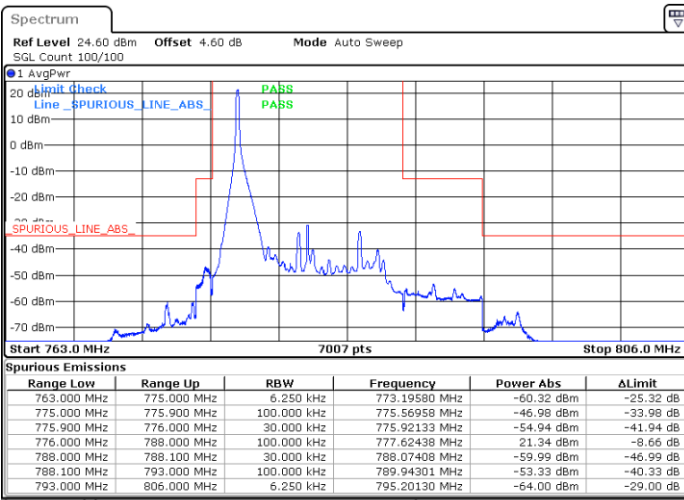
Date: 5 SEP.2022 10:43:02



LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB

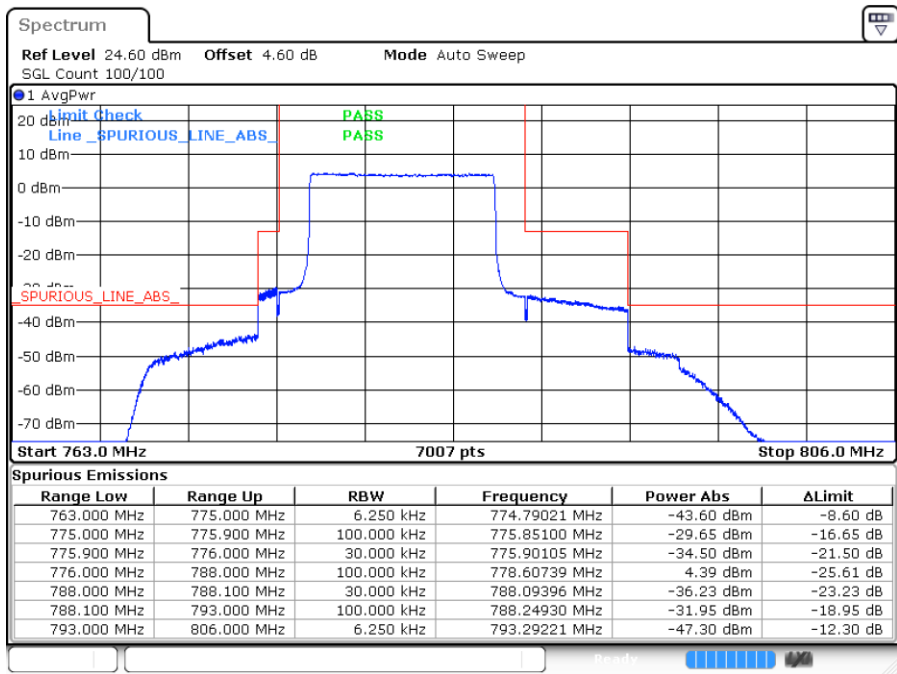
middle Band Edge / 1 RB



Date: 5 SEP 2022 10:49:51

Date: 5 SEP 2022 10:58:57

Middle Band Edge / Full RB

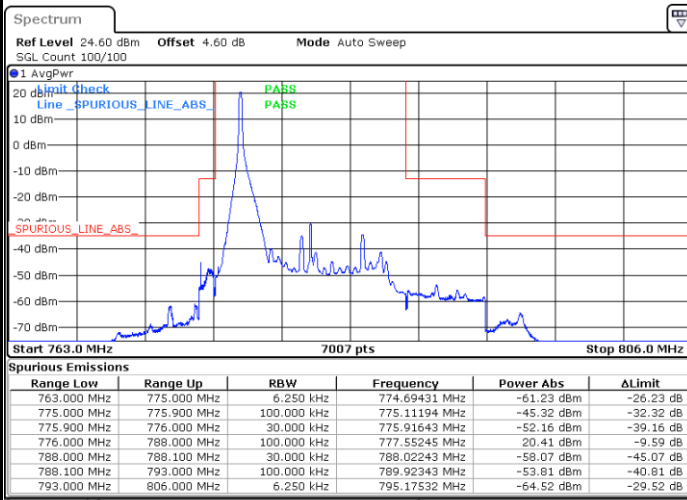


Date: 5 SEP 2022 11:00:46



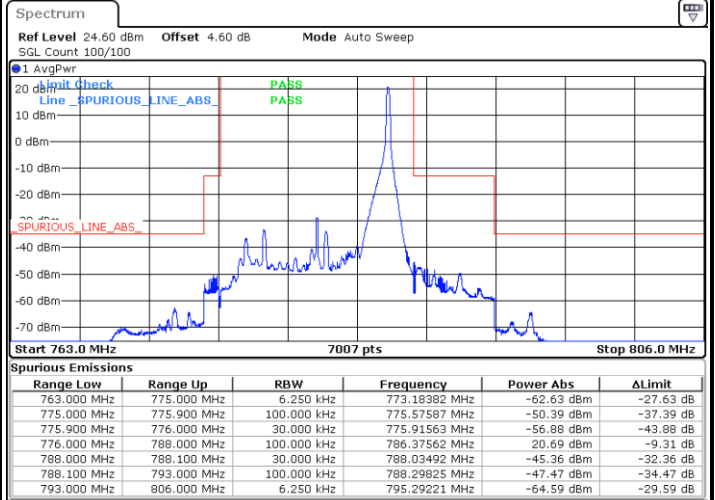
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



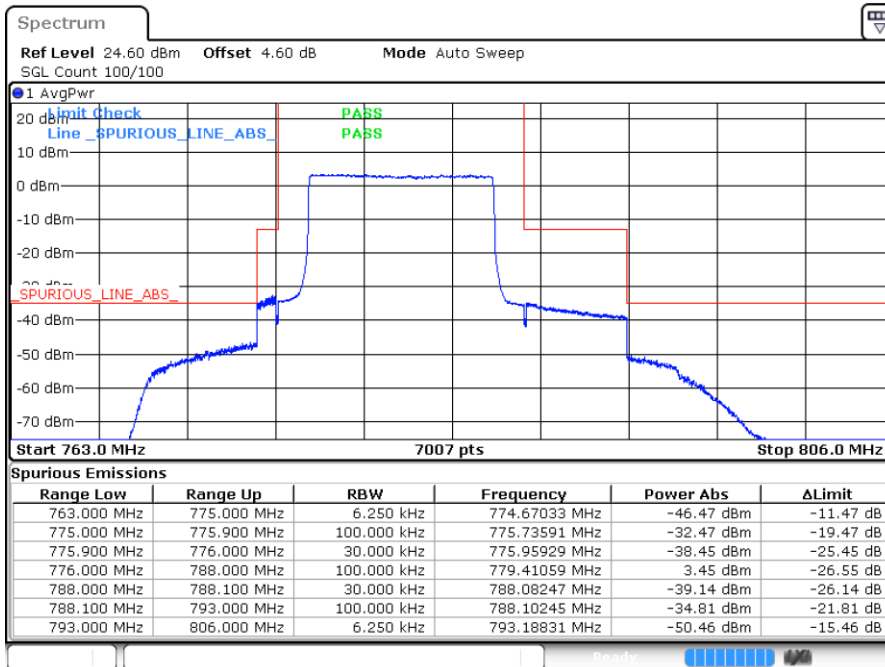
Date: 5 SEP 2022 10:51:40

middle Band Edge / 1 RB



Date: 5 SEP 2022 10:57:08

middle Band Edge / Full RB



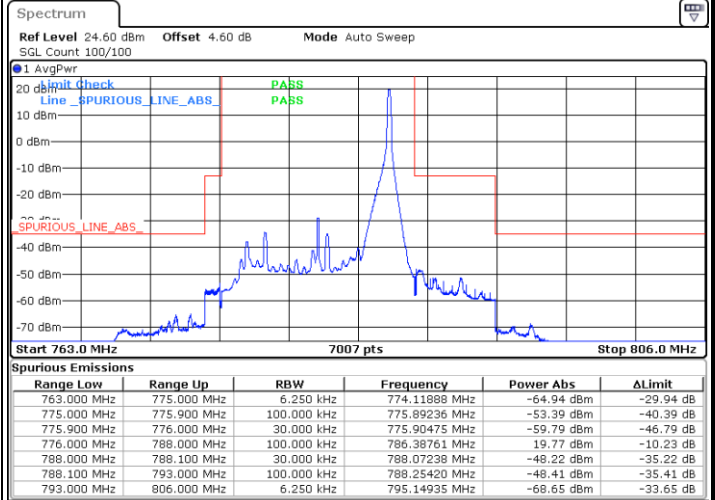
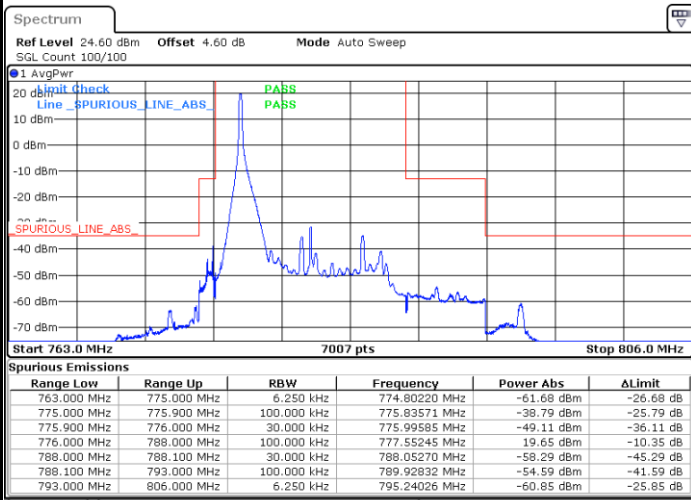
Date: 5 SEP 2022 11:02:35



LTE Band 13 / 10MHz / 64QAM

middle Band Edge / 1 RB

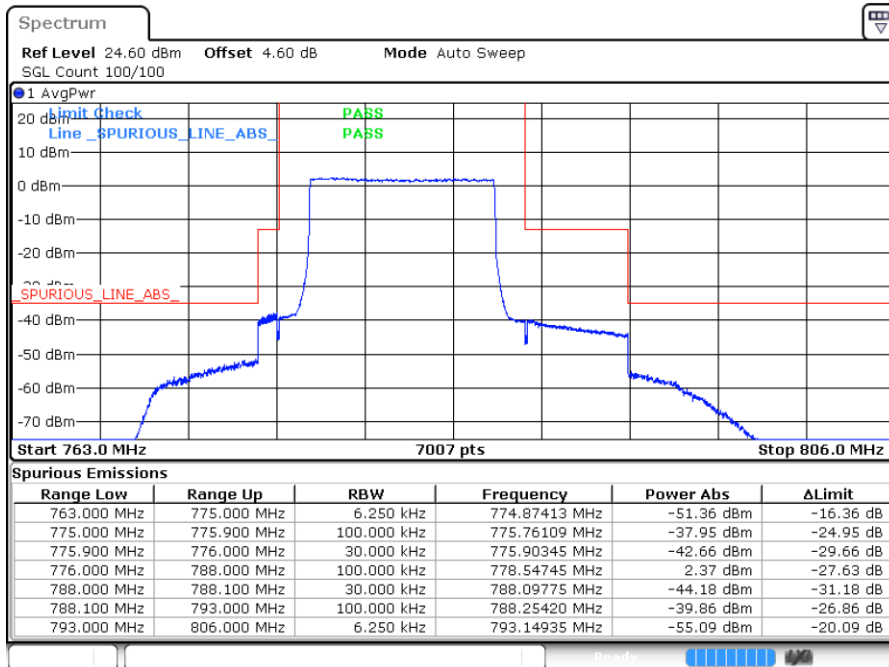
middle Band Edge / 1 RB



Date: 5 SEP 2022 10:53:29

Date: 5 SEP 2022 10:55:18

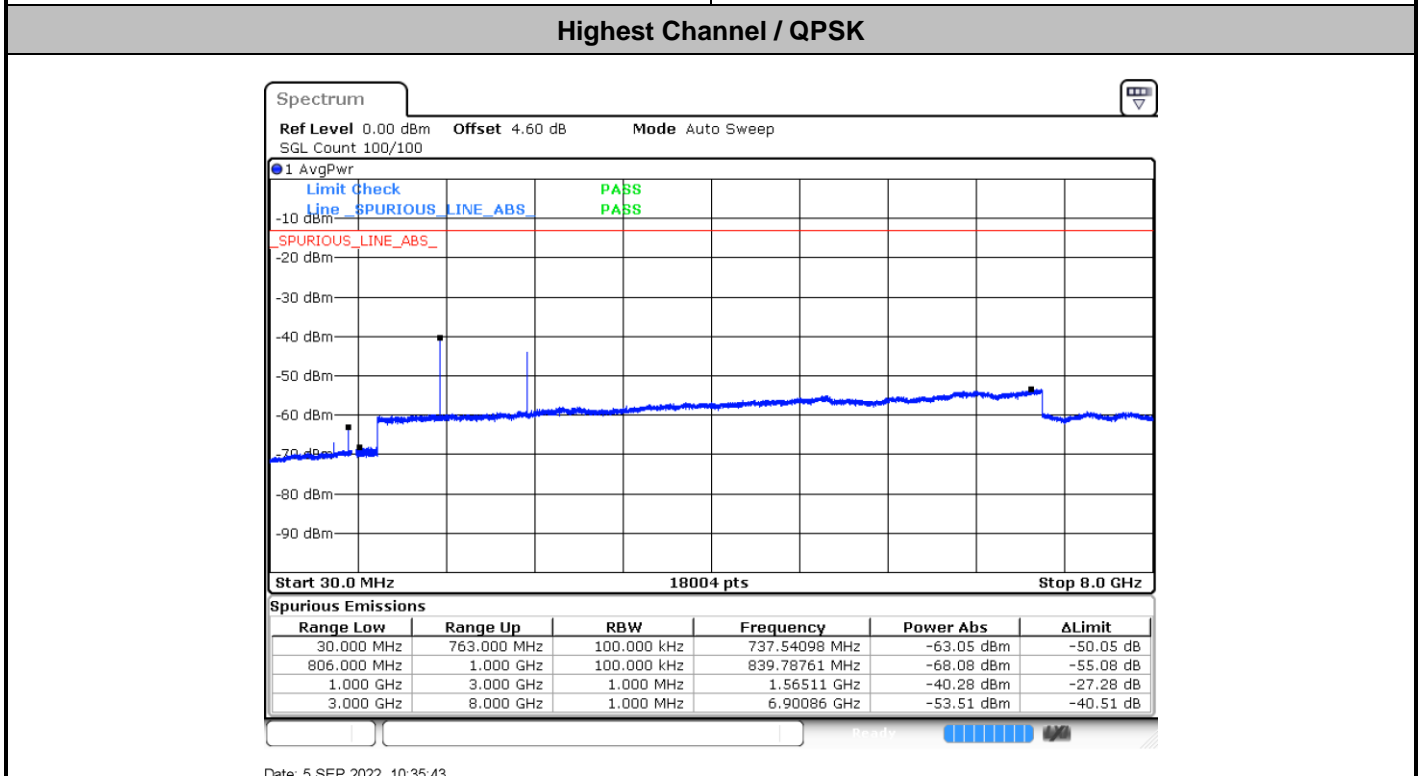
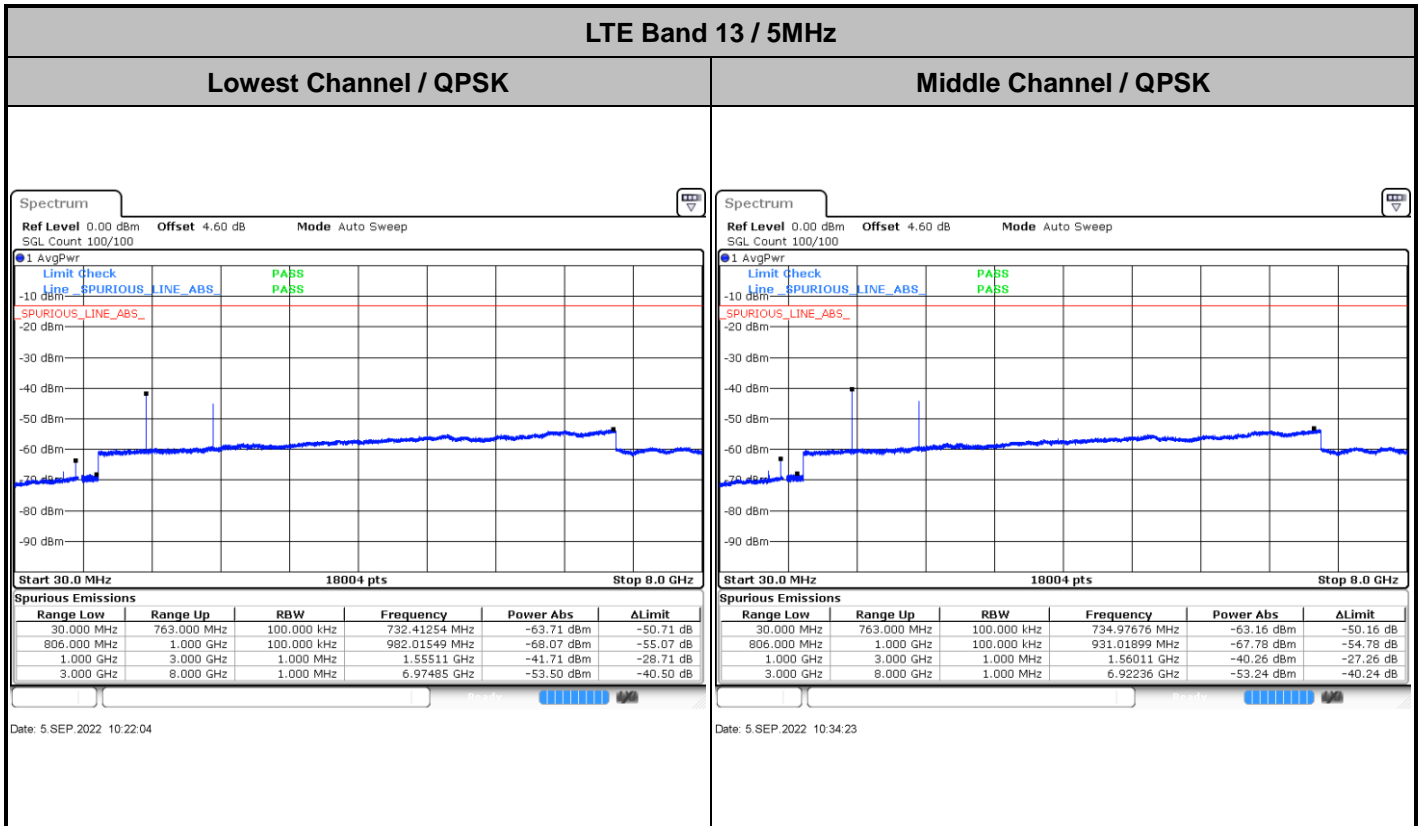
middle Band Edge / Full RB



Date: 5 SEP 2022 11:04:24



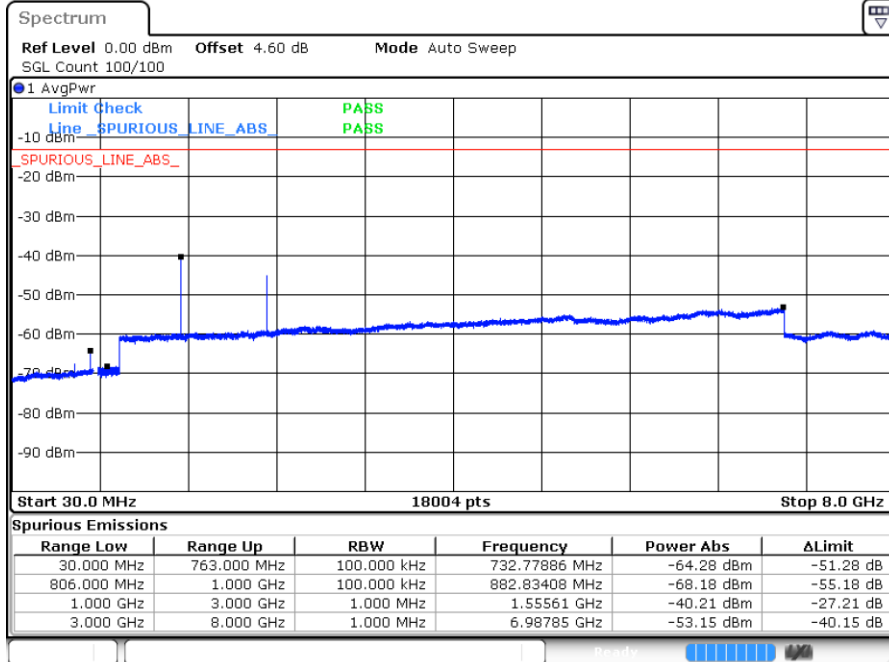
Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 5 SEP 2022 10:48:02



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	0.0024	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0013	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0023	
-30	Normal Voltage	0.0028	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 26

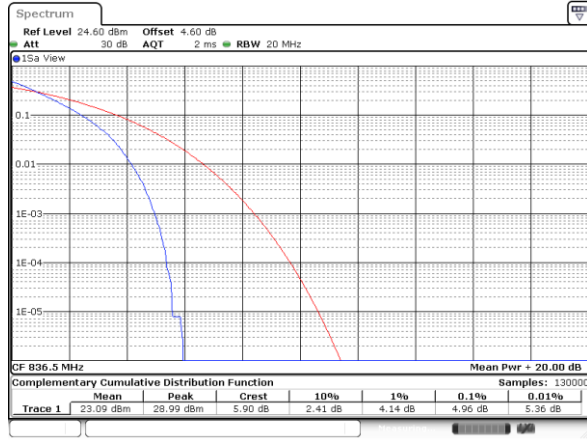
Peak-to-Average Ratio

Mode	LTE Band 26 / 15MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.96	5.80	6.32	PASS



LTE Band 26 / 15MHz

Middle Channel / Full RB/ QPSK



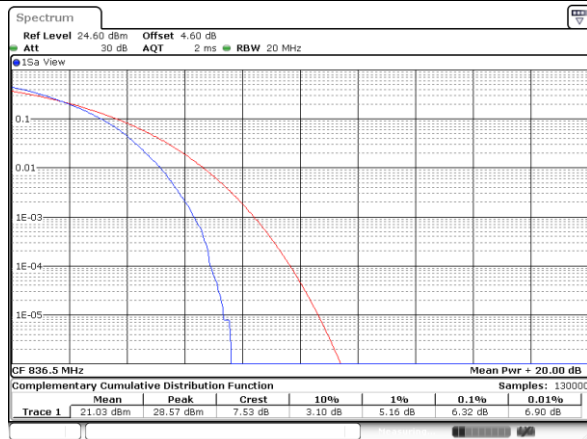
Date: 3 SEP 2022 03:28:36

Middle Channel / Full RB/ 16QAM



Date: 3 SEP 2022 03:28:59

Middle Channel / Full RB/ 64QAM

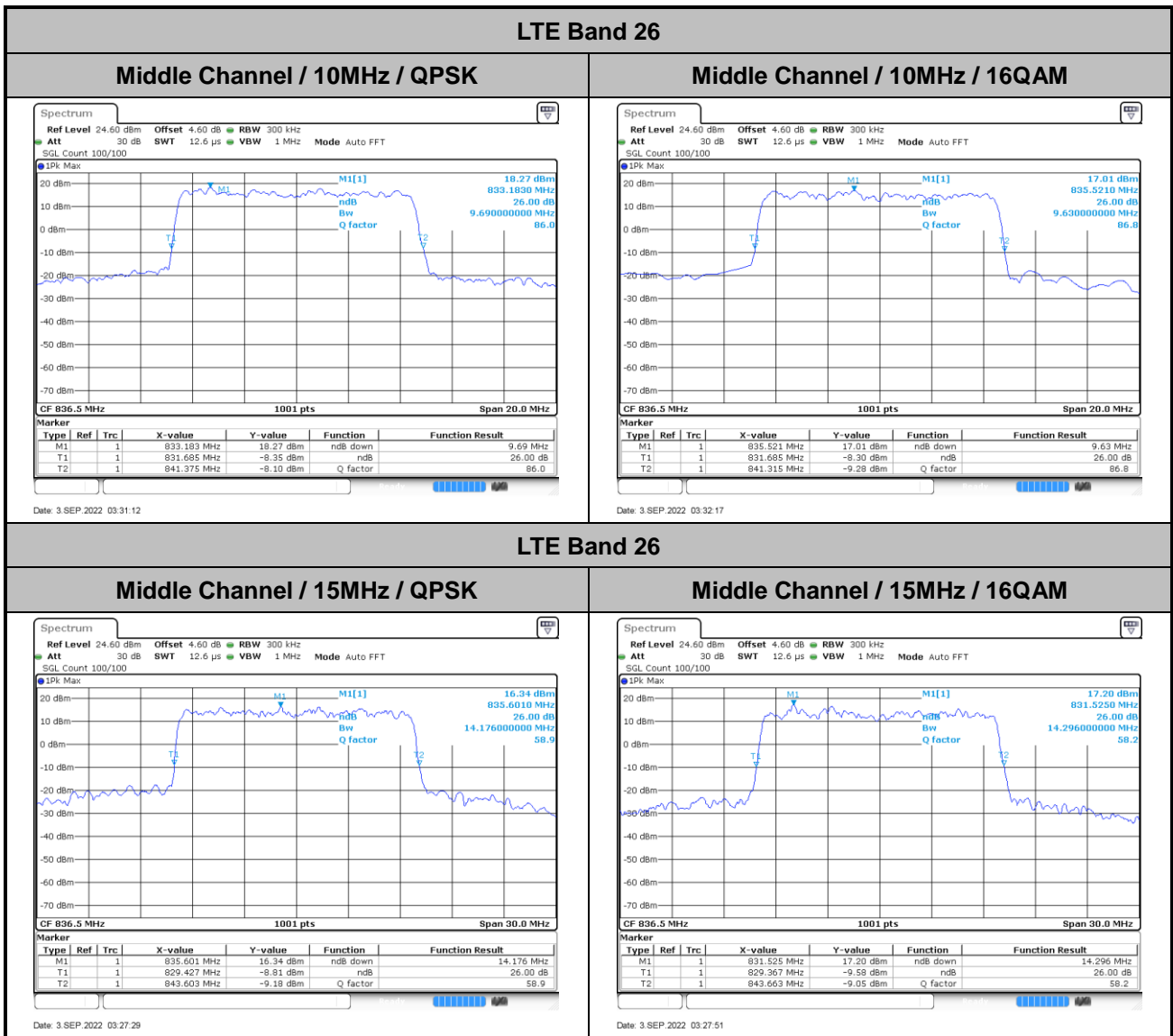


Date: 3 SEP 2022 03:29:22



26dB Bandwidth

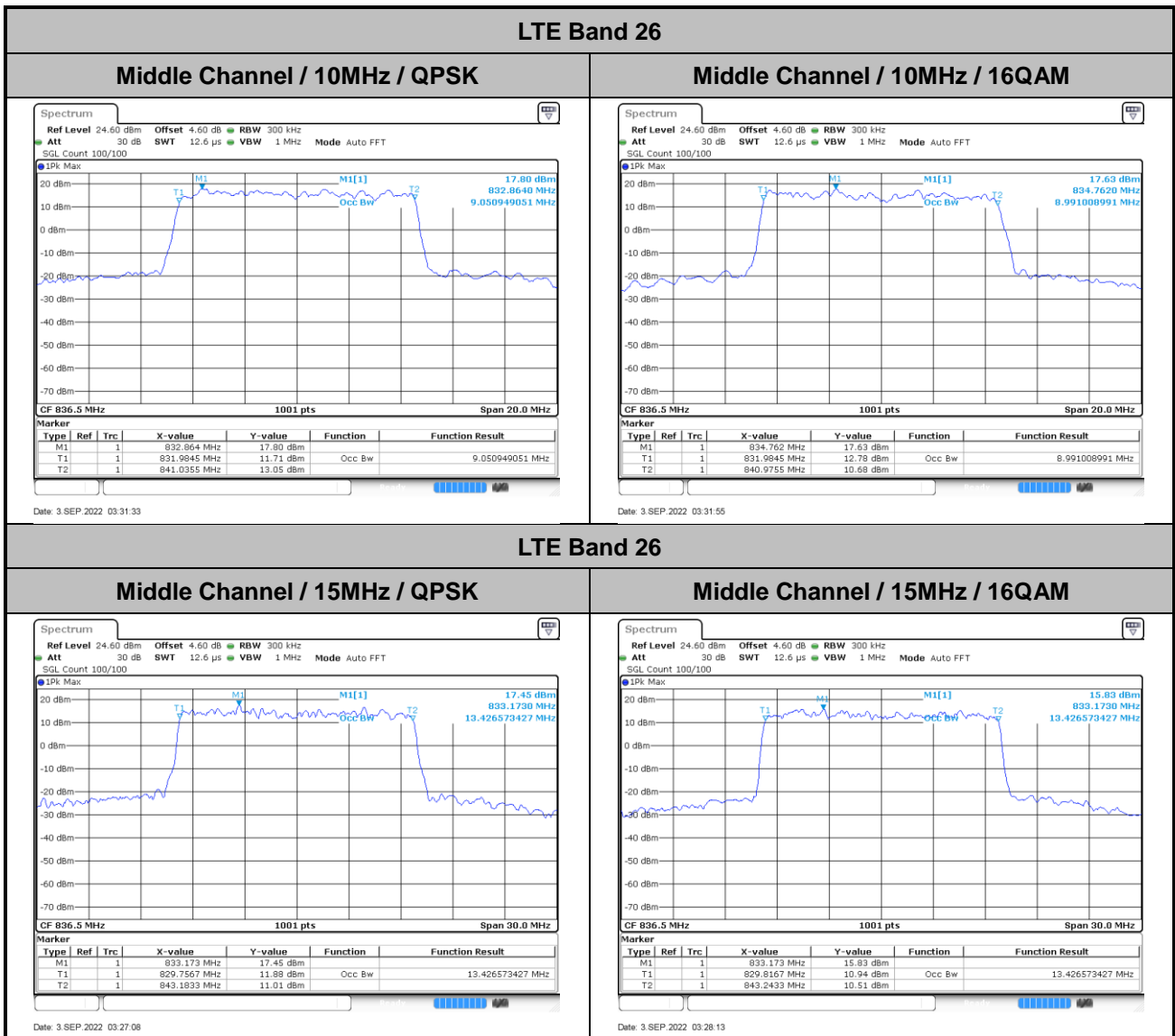
Mode	LTE Band 26 : 26dB BW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.69	9.63
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.18	14.30





Occupied Bandwidth

Mode	LTE Band 26 : 99%OBW(MHz)	
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.05	8.99
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.43	13.43





Mode	LTE Band 26 : 99%OBW(MHz)	
BW	CH26790	
Mod.	QPSK	16QAM
High CH	13.43	13.52

