

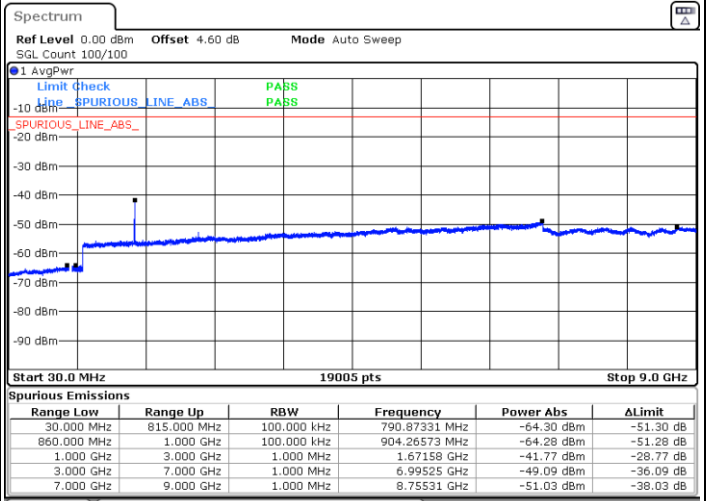
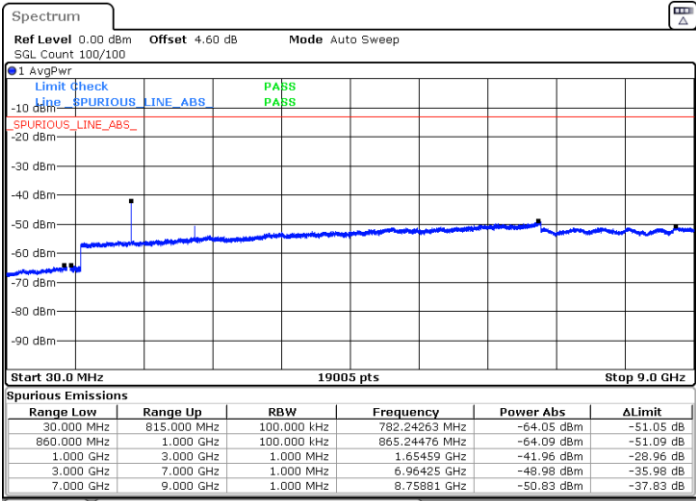


LTE Band 5B / 3MHz+5MHz

QPSK

Lowest Channel / 1RB14 and 1RB0

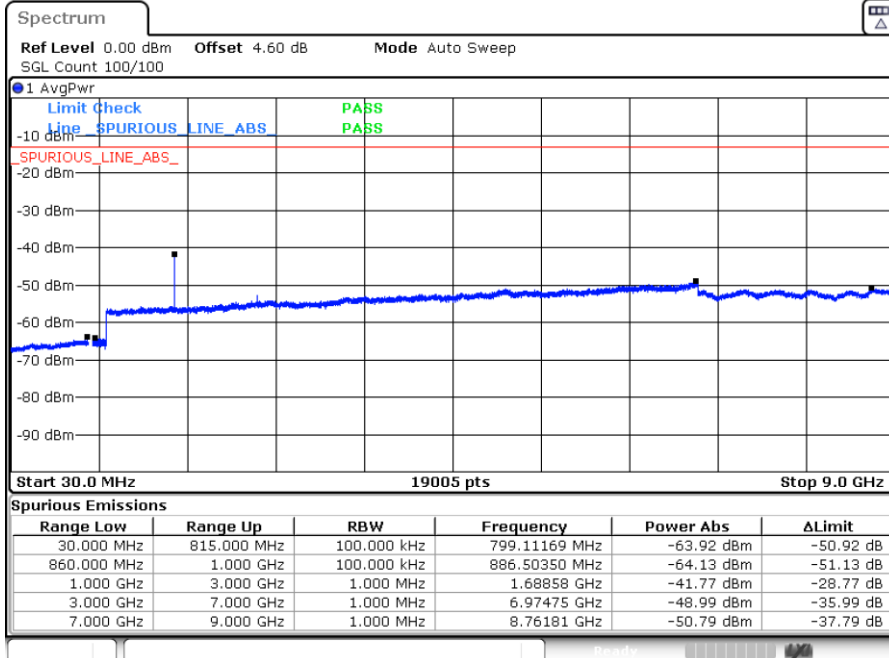
Middle Channel / 1RB14 and 1RB0



Date: 22.FEB.2023 01:18:15

Date: 22.FEB.2023 01:19:51

Highest Channel / 1RB14 and 1RB0



Date: 22.FEB.2023 01:23:26

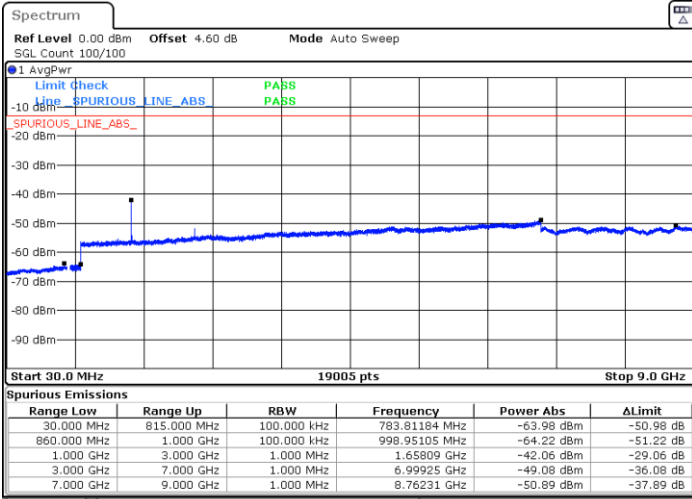


LTE Band 5B / 5MHz+3MHz

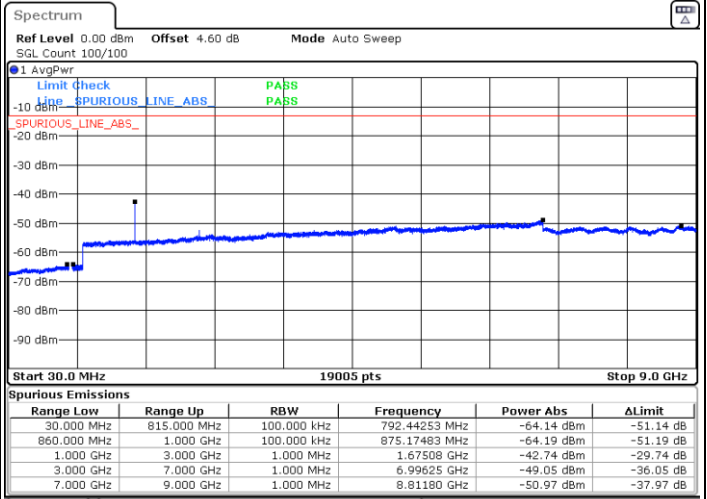
QPSK

Lowest Channel / 1RB24 and 1RB0

Middle Channel / 1RB24 and 1RB0

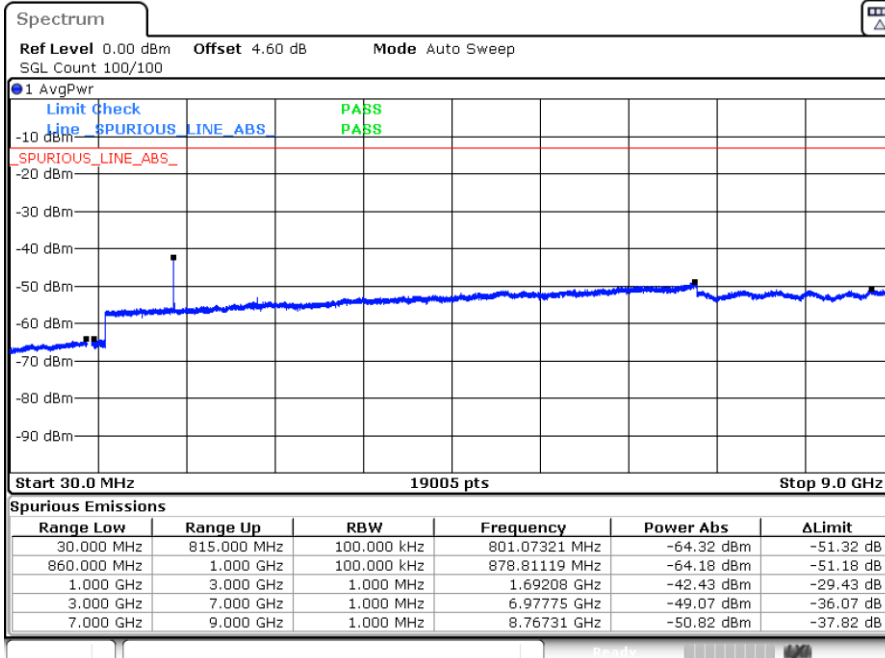


Date: 22.FEB.2023 01:29:56



Date: 22.FEB.2023 01:31:32

Highest Channel / 1RB24 and 1RB0



Date: 22.FEB.2023 01:35:06

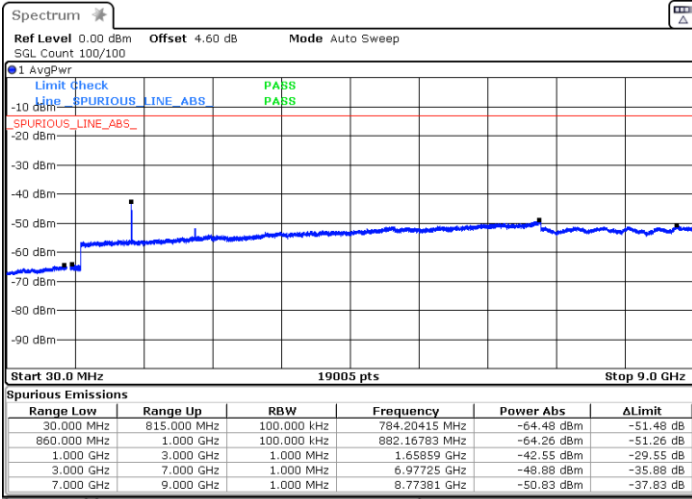


LTE Band 5B / 5MHz+10MHz

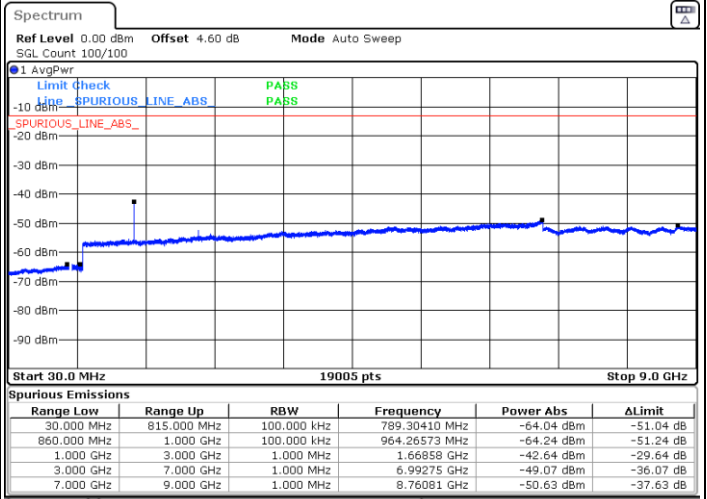
QPSK

Lowest Channel / 1RB24 and 1RB0

Middle Channel / 1RB24 and 1RB0

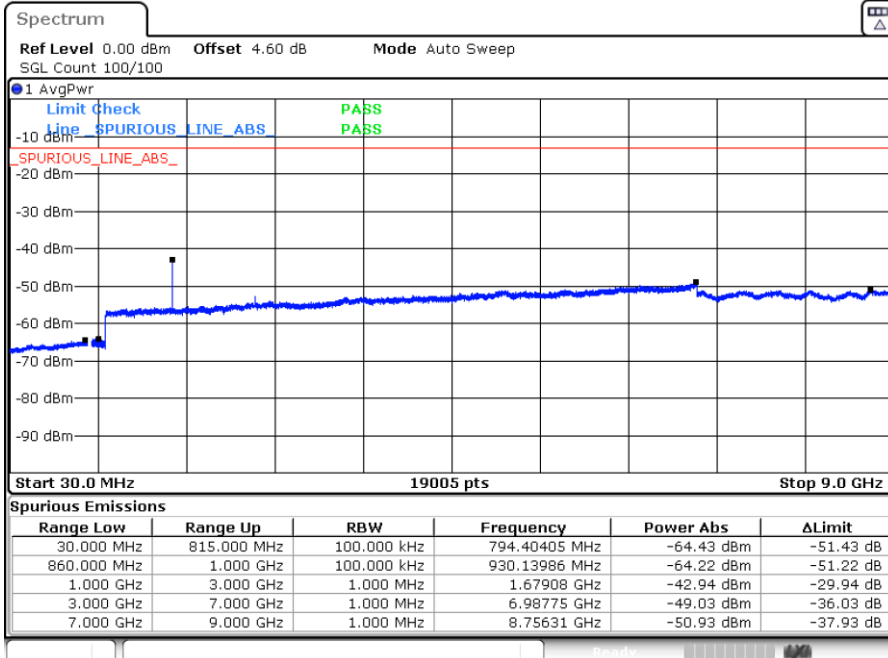


Date: 22.FEB.2023 01:36:42



Date: 22.FEB.2023 01:38:17

Highest Channel / 1RB24 and 1RB0



Date: 22.FEB.2023 01:44:41

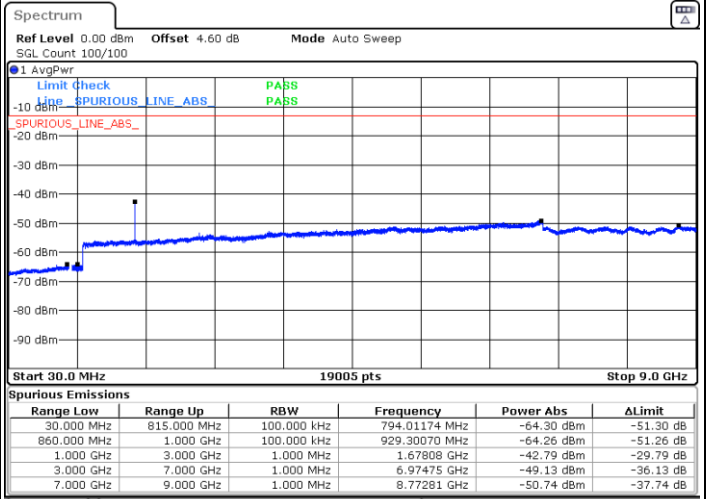
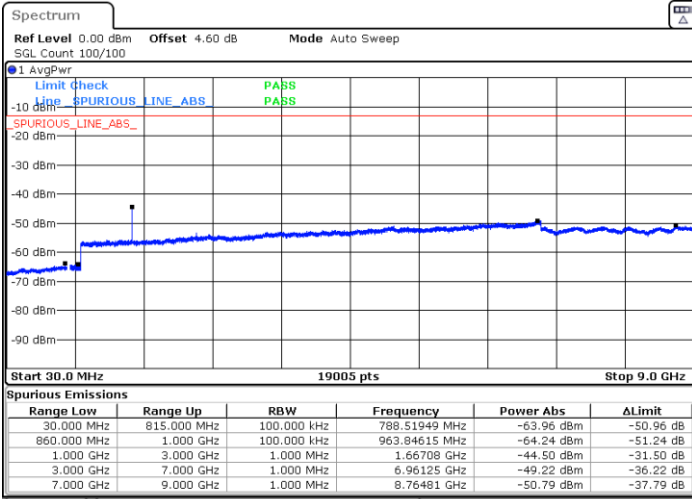


LTE Band 5B / 10MHz+5MHz

QPSK

Lowest Channel / 1RB49 and 1RB0

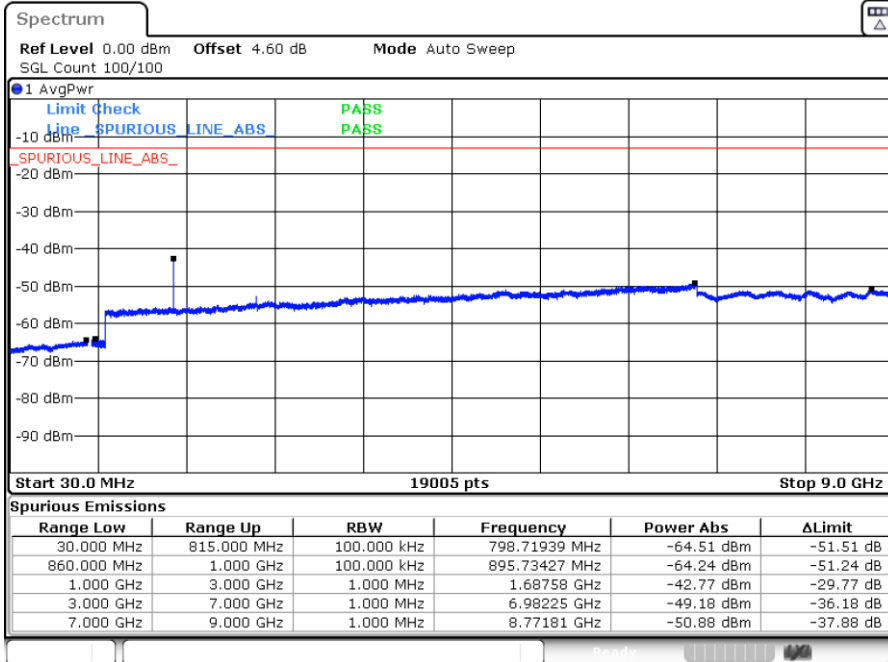
Middle Channel / 1RB49 and 1RB0



Date: 22.FEB.2023 01:47:10

Date: 22.FEB.2023 01:48:45

Highest Channel / 1RB49 and 1RB0



Date: 22.FEB.2023 01:52:19

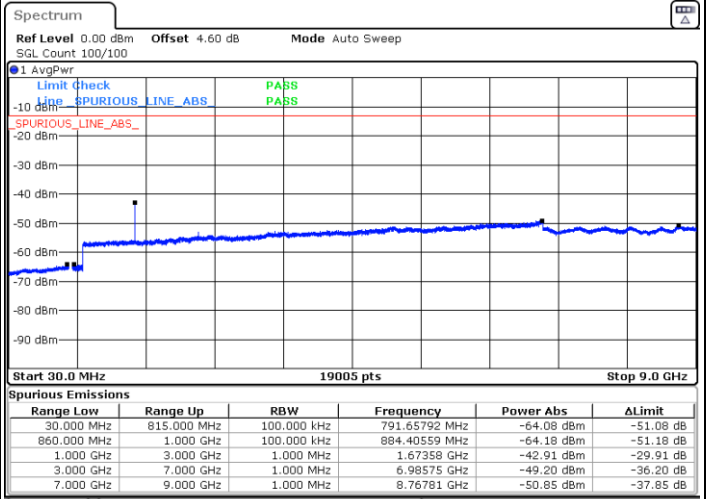
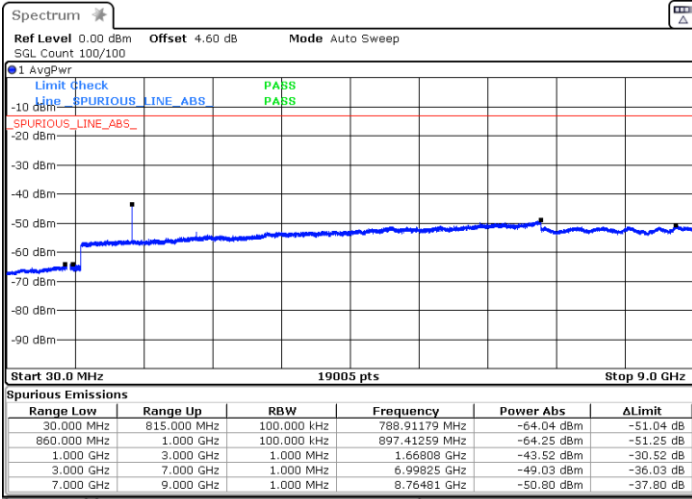


LTE Band 5B / 10MHz+10MHz

QPSK

Lowest Channel / 1RB49 and 1RB0

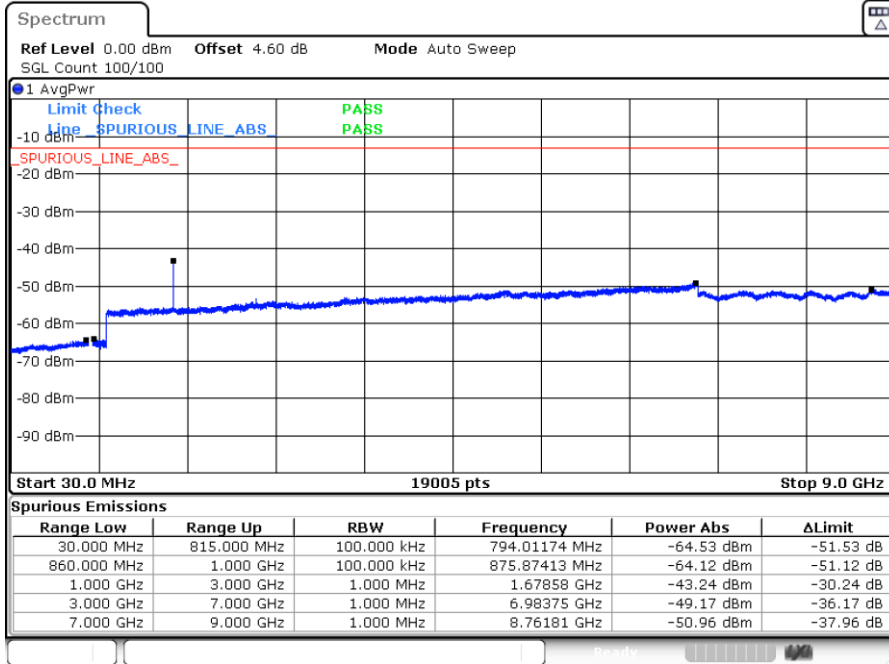
Middle Channel / 1RB49 and 1RB0



Date: 22.FEB.2023 01:53:55

Date: 22.FEB.2023 01:55:30

Highest Channel / 1RB49 and 1RB0



Date: 22.FEB.2023 01:59:05



Frequency Stability

Test Conditions		LTE Band 5B (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz+10MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0026	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0035	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0014	
-20	Normal Voltage	0.0042	
-30	Normal Voltage	0.0016	
20	Maximum Voltage	0.0028	
20	Normal Voltage	0.0034	
20	Battery End Point	0.0013	

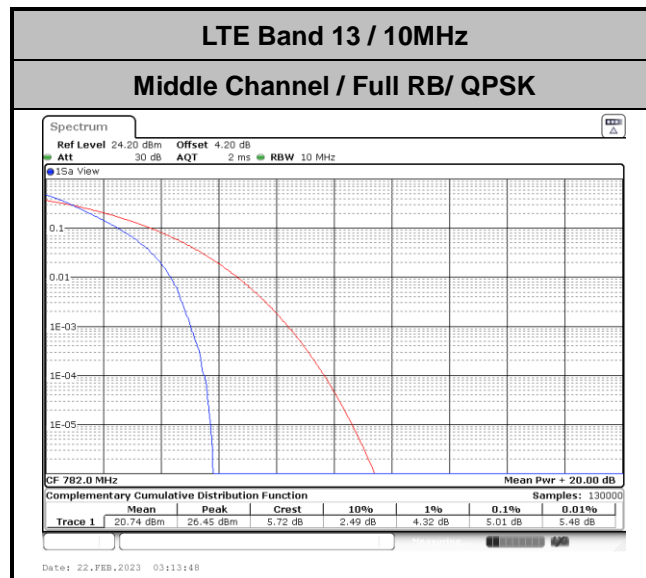
Note: Normal Voltage =3.85V. ; Battery End Point (BEP) =3.45V. ; Maximum Voltage =4.41 V.

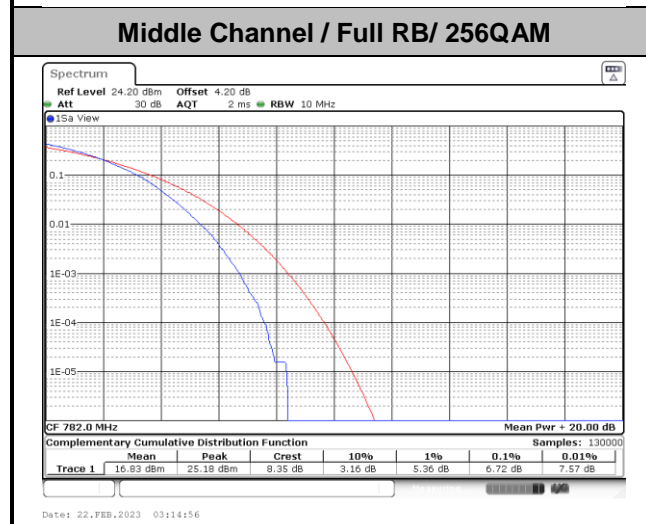
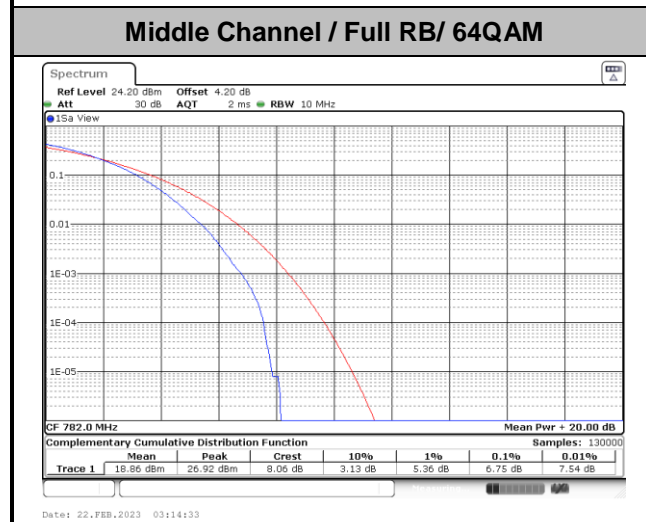
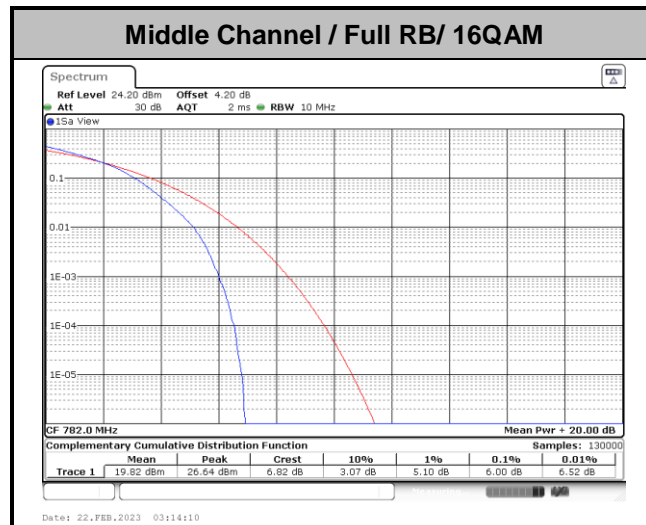


LTE Band 13

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	5.01	6.00	6.75	6.72	PASS





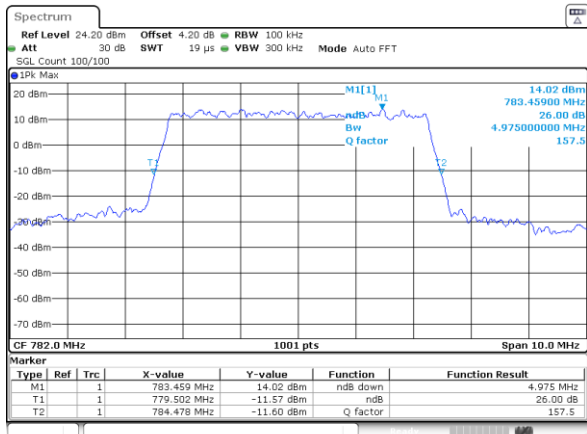


26dB Bandwidth

Mode	LTE Band 13 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.98	4.91
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.83	9.79

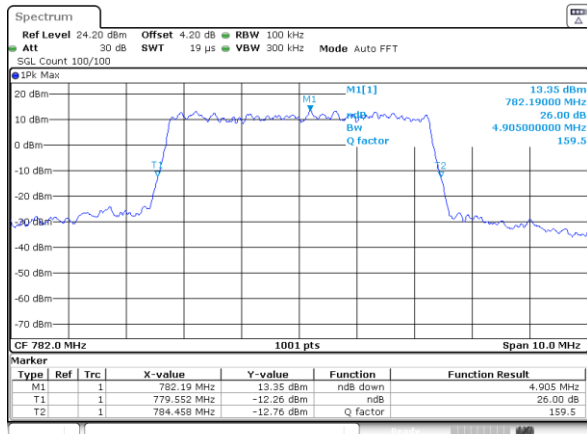
LTE Band 13

Middle Channel / 5MHz / QPSK



Date: 22.FEB.2023 03:20:10

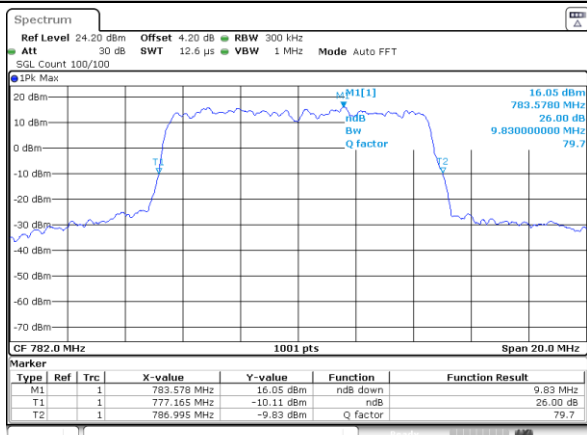
Middle Channel / 5MHz / 16QAM



Date: 22.FEB.2023 03:20:31

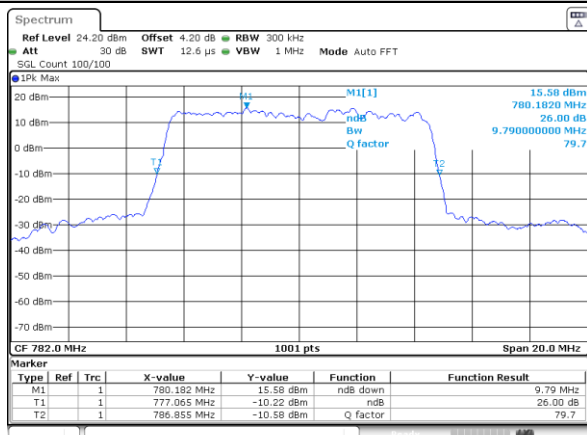
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 22.FEB.2023 03:12:43

Middle Channel / 10MHz / 16QAM

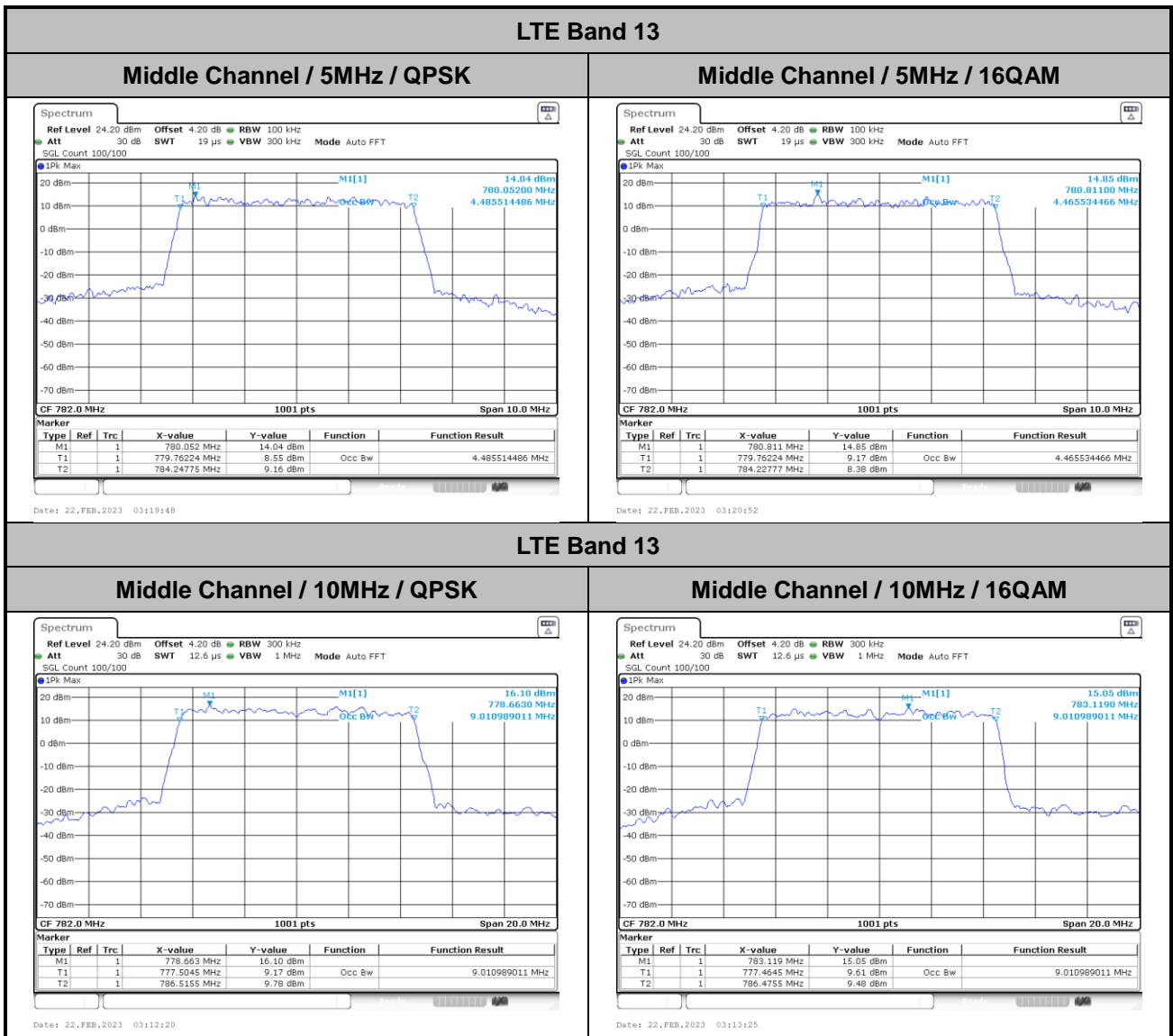


Date: 22.FEB.2023 03:13:04



Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.49	4.47
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.01	9.01

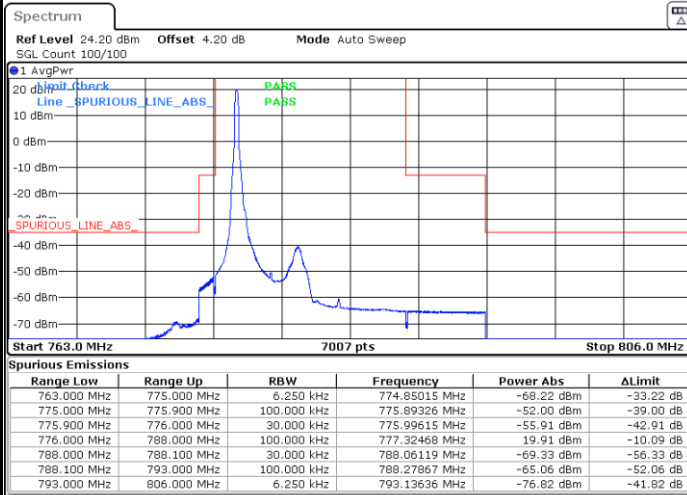




Conducted Band Edge

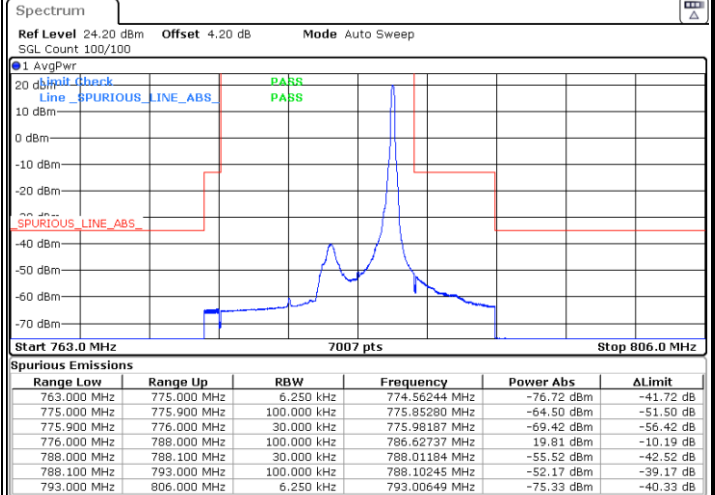
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



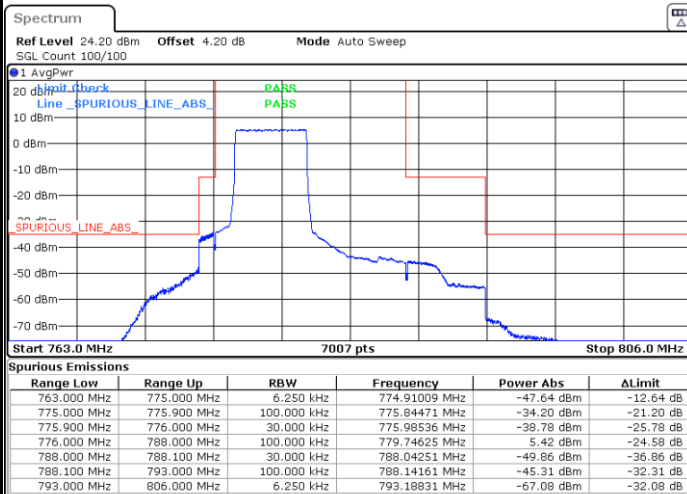
Date: 22.FEB.2023 02:16:49

Highest Band Edge / 1 RB



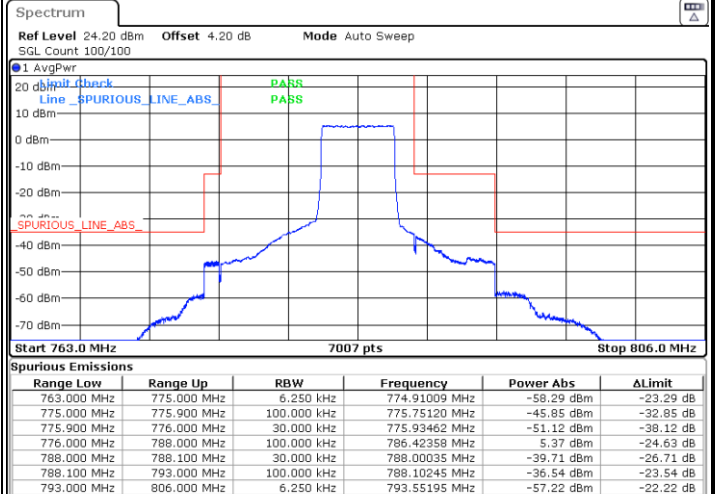
Date: 22.FEB.2023 02:35:33

Lowest Band Edge / Full RB



Date: 22.FEB.2023 02:24:14

Highest Band Edge / Full RB



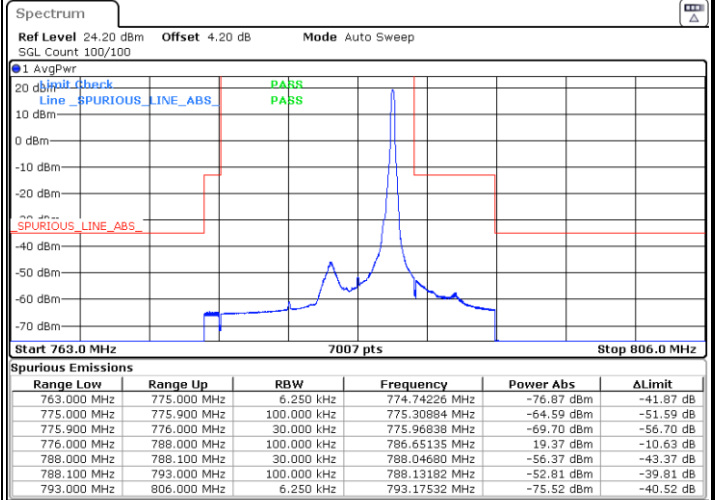
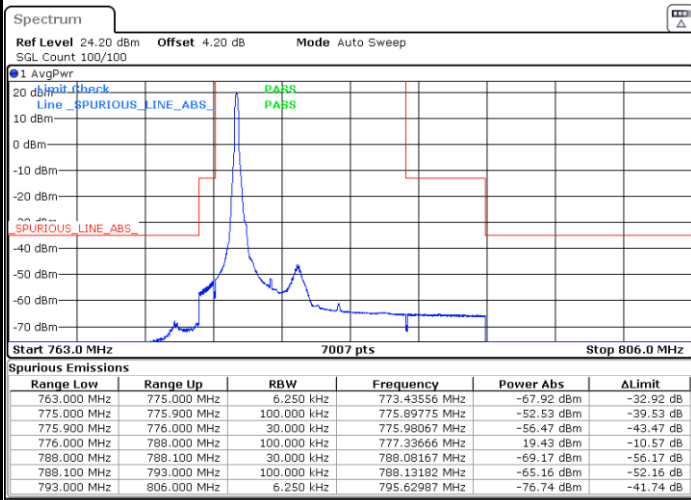
Date: 22.FEB.2023 02:43:01



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

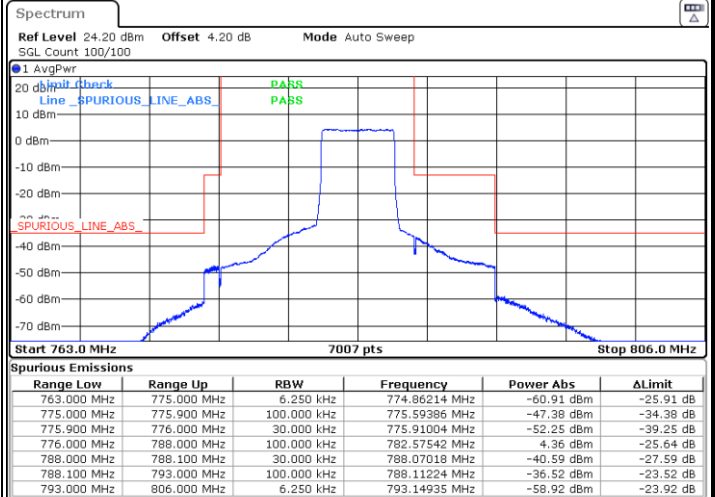
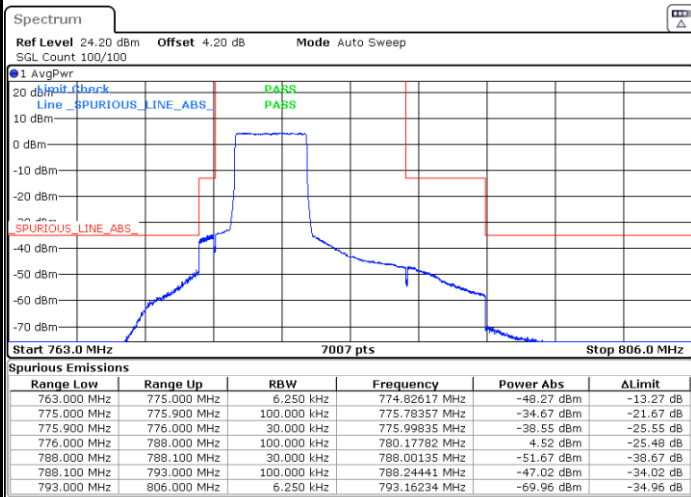


Date: 22.FEB.2023 02:18:39

Date: 22.FEB.2023 02:37:24

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.FEB.2023 02:26:04

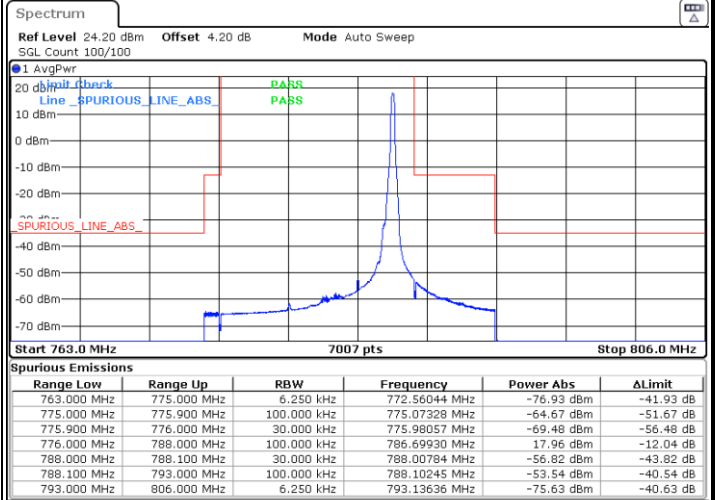
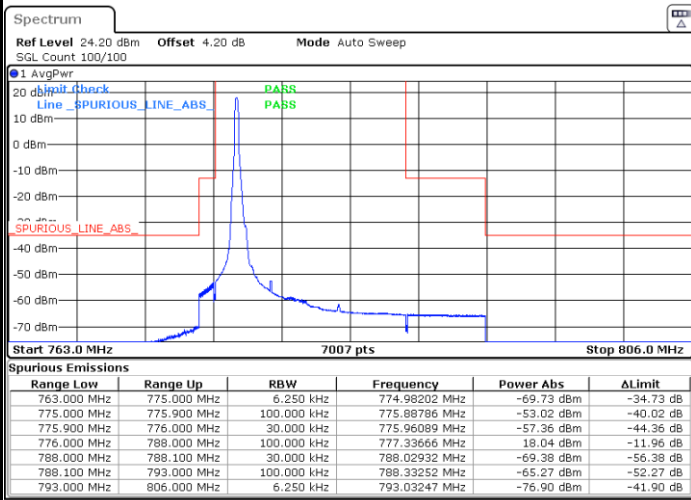
Date: 22.FEB.2023 02:44:53



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

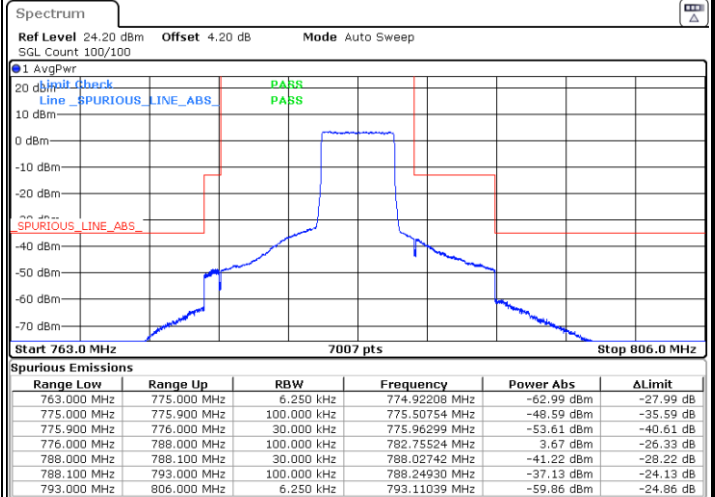
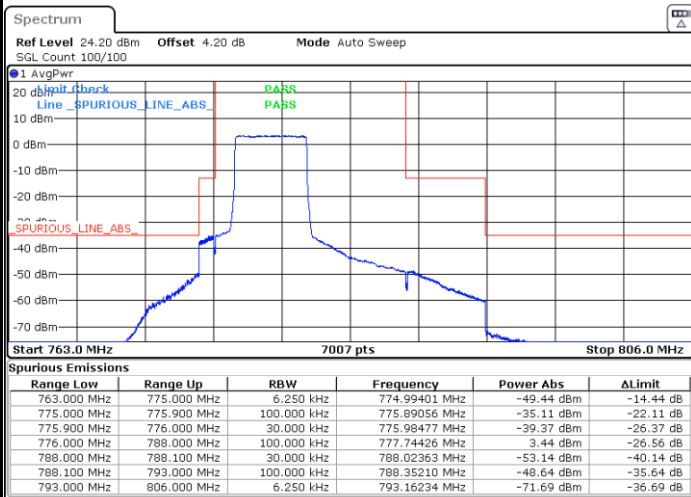


Date: 22.FEB.2023 02:20:28

Date: 22.FEB.2023 02:39:16

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.FEB.2023 02:27:53

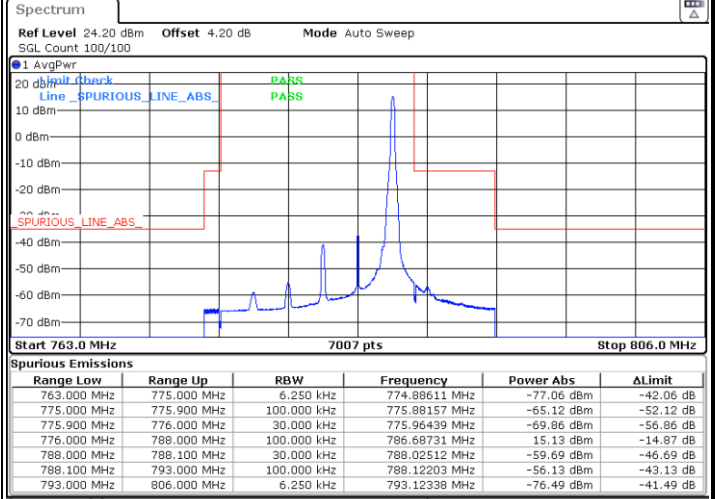
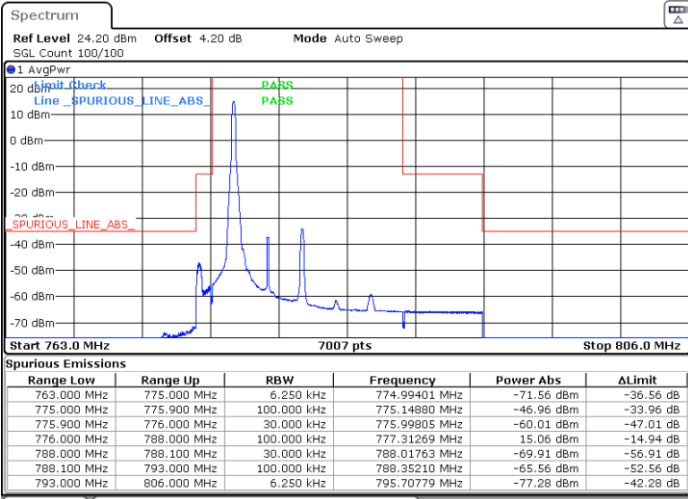
Date: 22.FEB.2023 02:46:42



LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1RB

Highest Band Edge / 1 RB

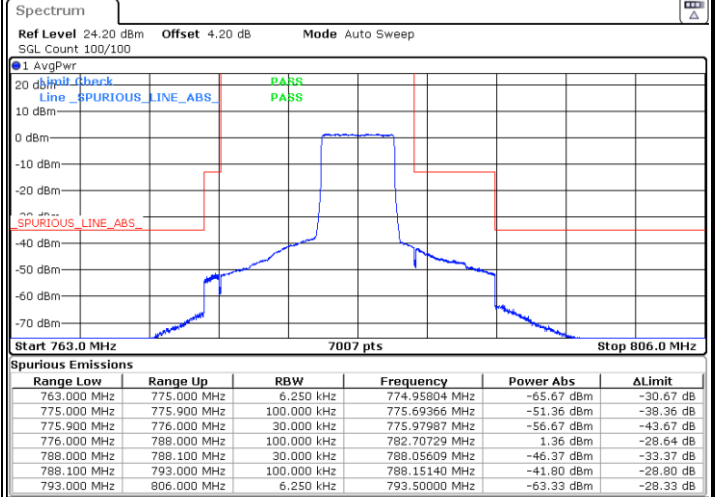
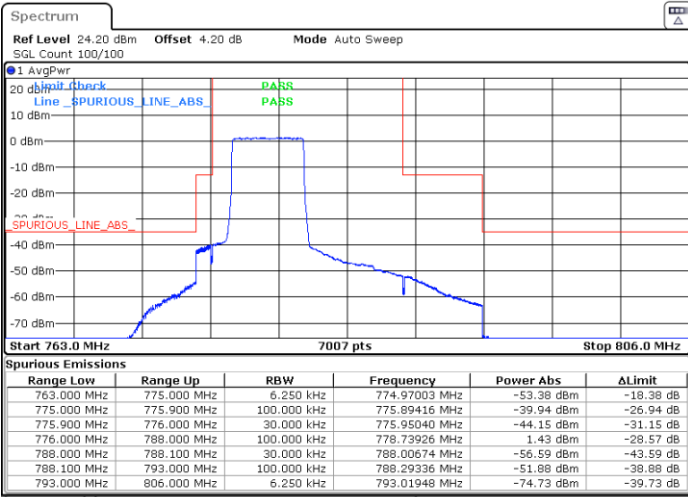


Date: 22.FEB.2023 02:22:20

Date: 22.FEB.2023 02:41:07

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 22.FEB.2023 02:29:45

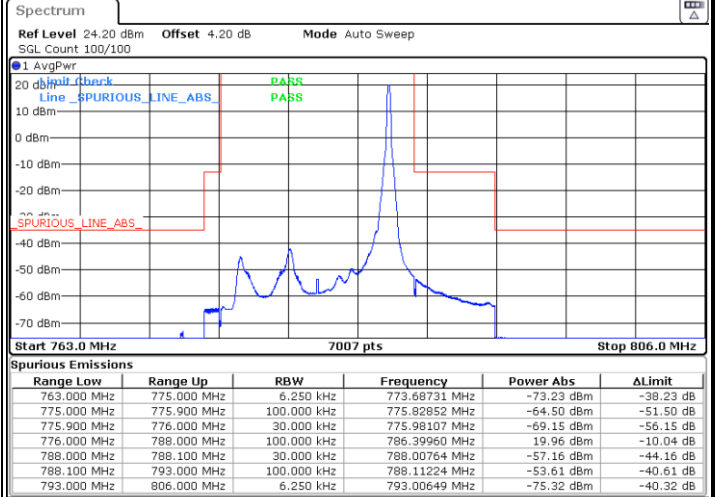
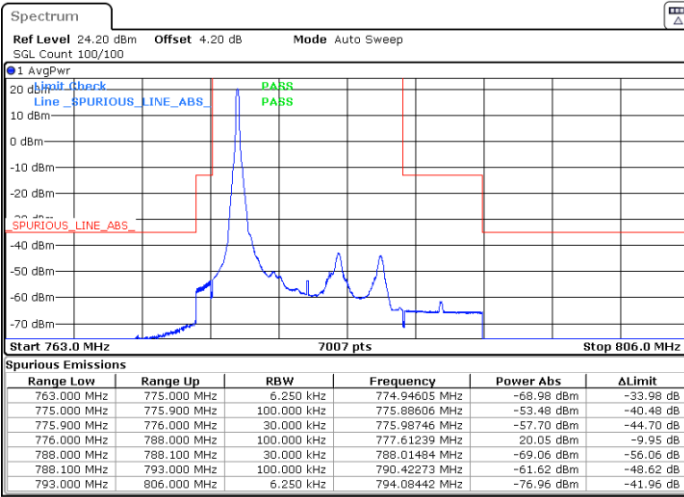
Date: 22.FEB.2023 02:48:34



LTE Band 13 / 10MHz / QPSK

middle Band Edge / 1 RB

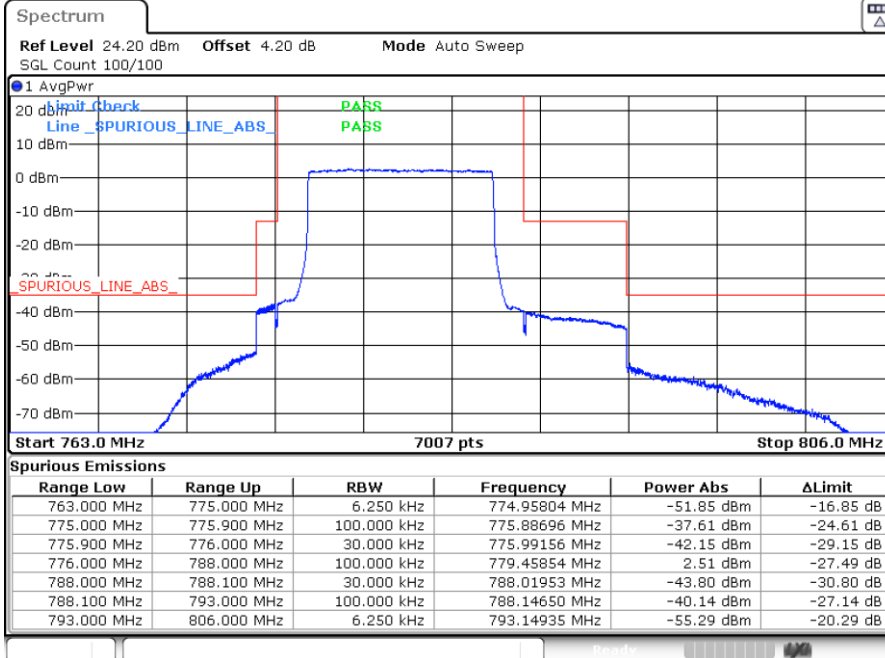
middle Band Edge / 1 RB



Date: 22.FEB.2023 02:51:48

Date: 22.FEB.2023 03:06:28

Middle Band Edge / Full RB

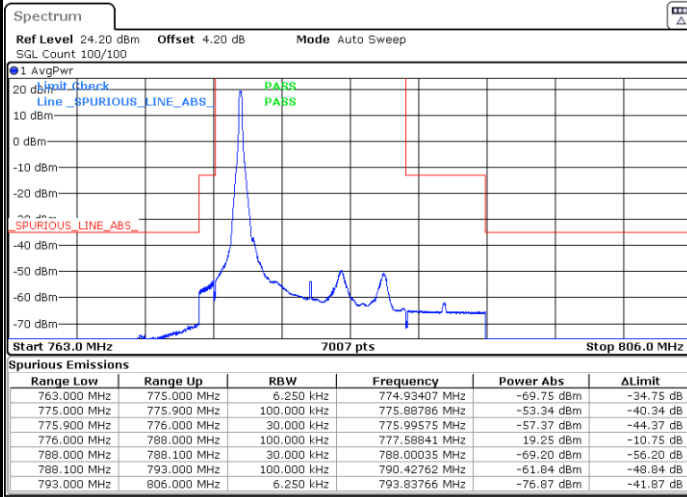


Date: 22.FEB.2023 02:59:08



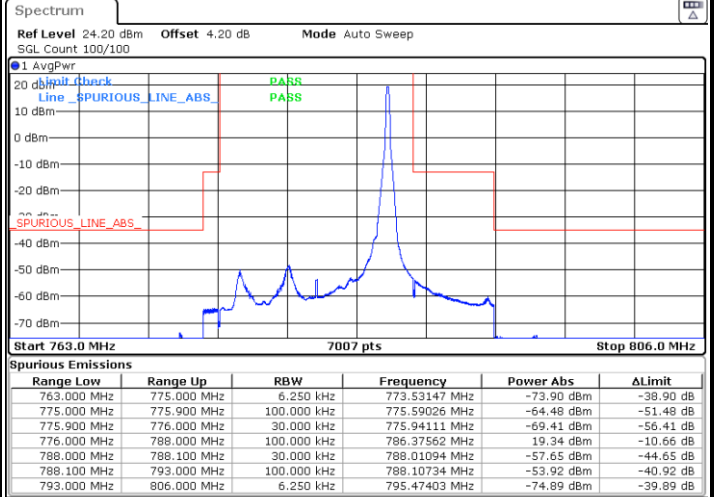
LTE Band 13 / 10MHz / 16QAM

middle Band Edge / 1 RB



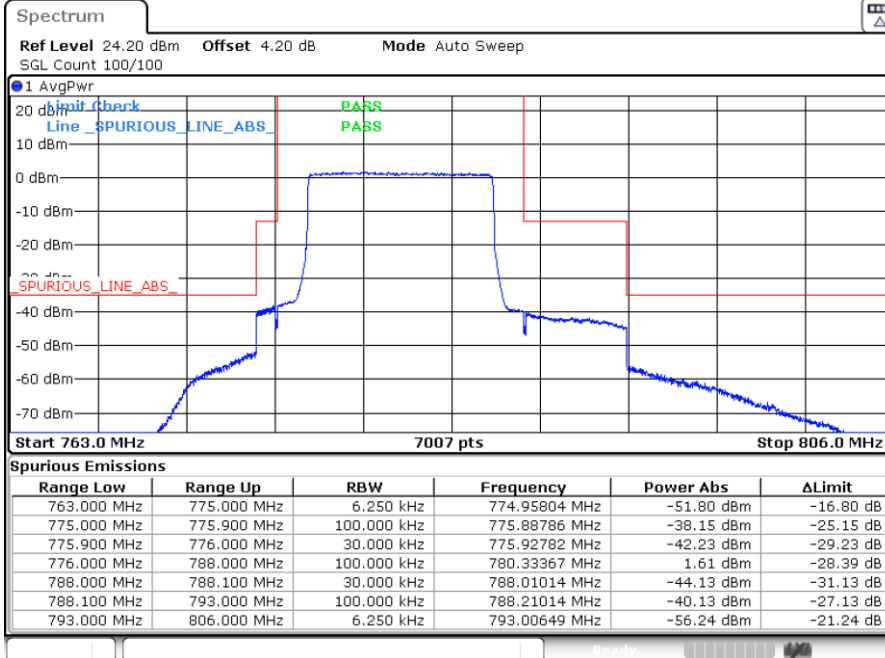
Date: 22.FEB.2023 02:53:39

middle Band Edge / 1 RB



Date: 22.FEB.2023 03:08:17

middle Band Edge / Full RB

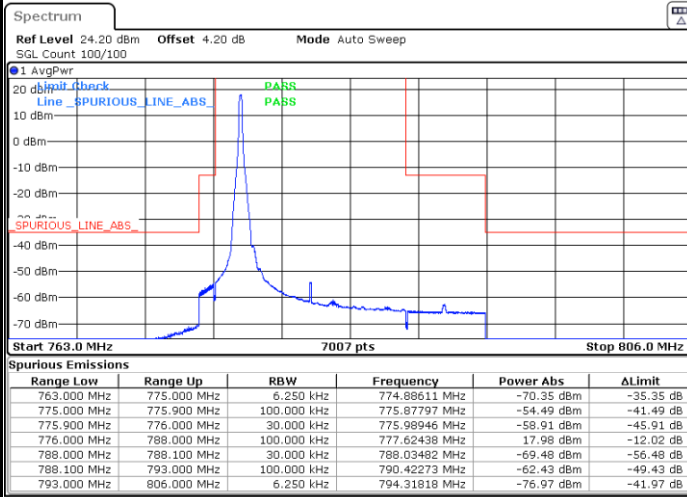


Date: 22.FEB.2023 03:00:58



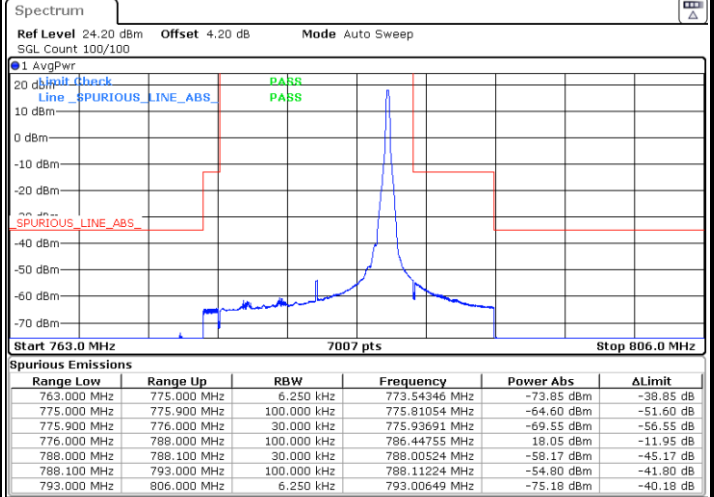
LTE Band 13 / 10MHz / 64QAM

middle Band Edge / 1 RB



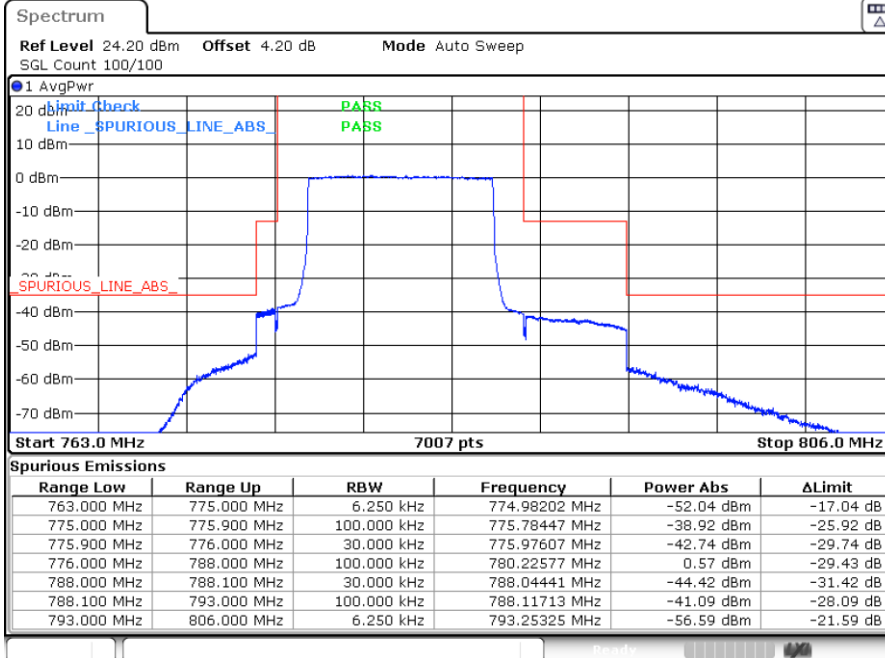
Date: 22.FEB.2023 02:55:28

middle Band Edge / 1 RB



Date: 22.FEB.2023 03:10:08

middle Band Edge / Full RB



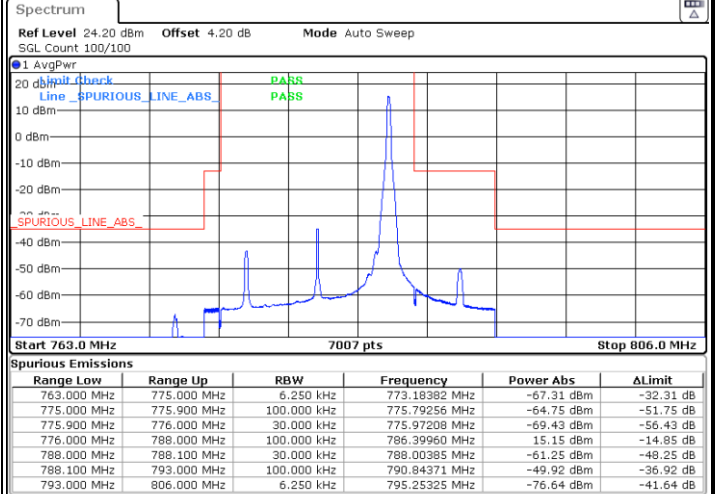
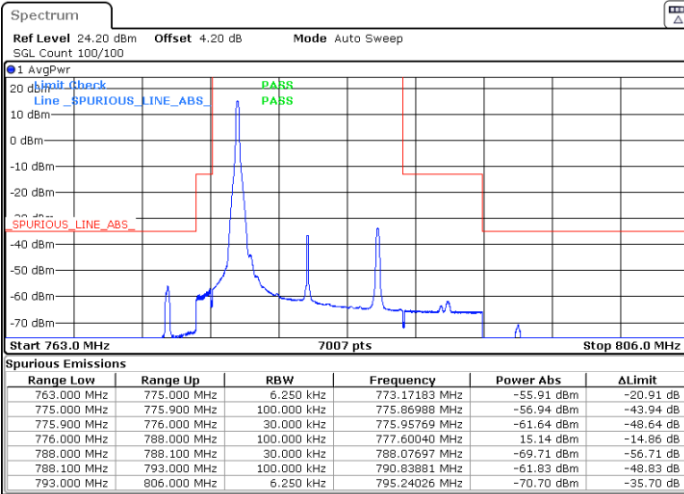
Date: 22.FEB.2023 03:02:49



LTE Band 13 / 10MHz / 256QAM

middle Band Edge / 1 RB

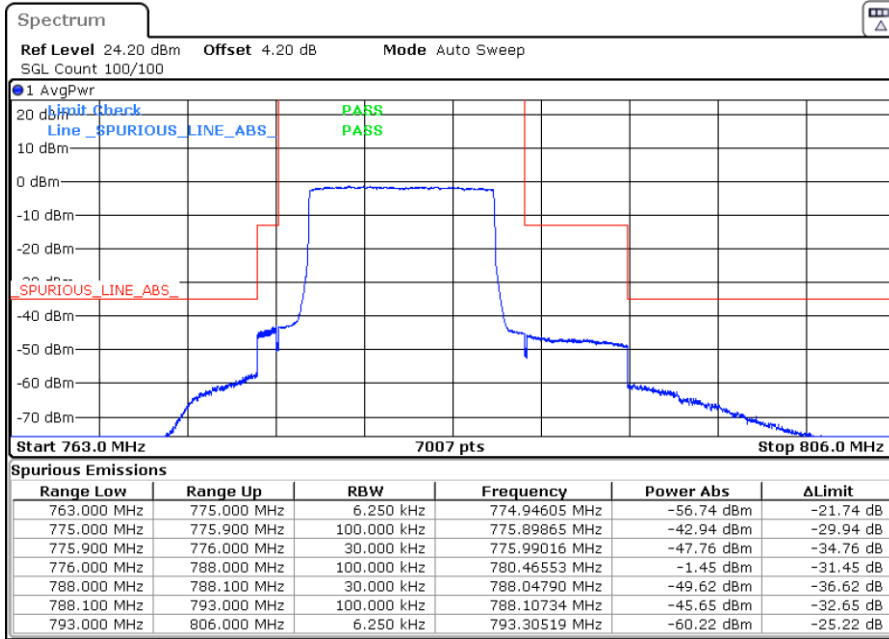
middle Band Edge / 1 RB



Date: 22.FEB.2023 02:57:17

Date: 22.FEB.2023 03:11:58

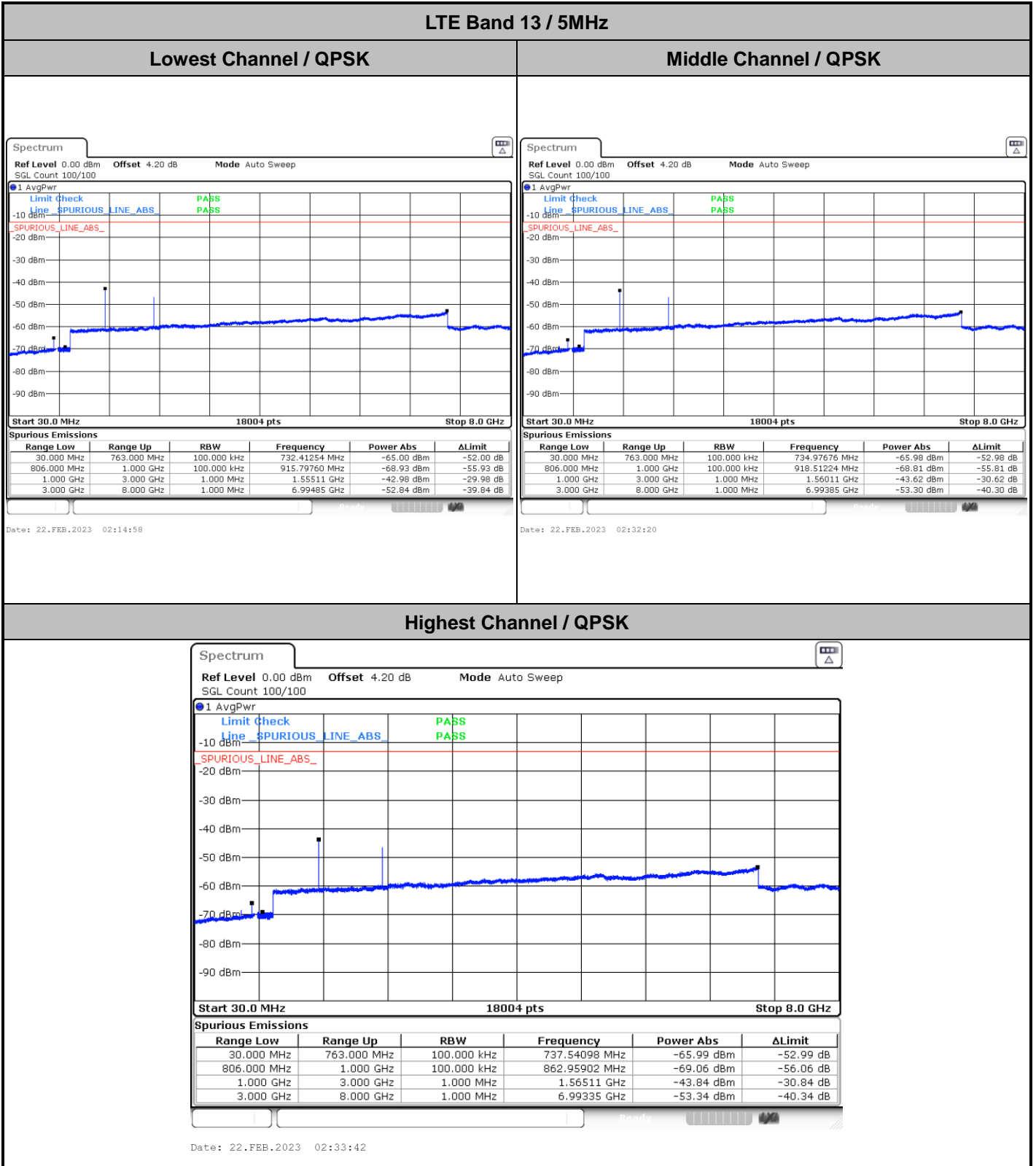
middle Band Edge / Full RB



Date: 22.FEB.2023 03:04:38



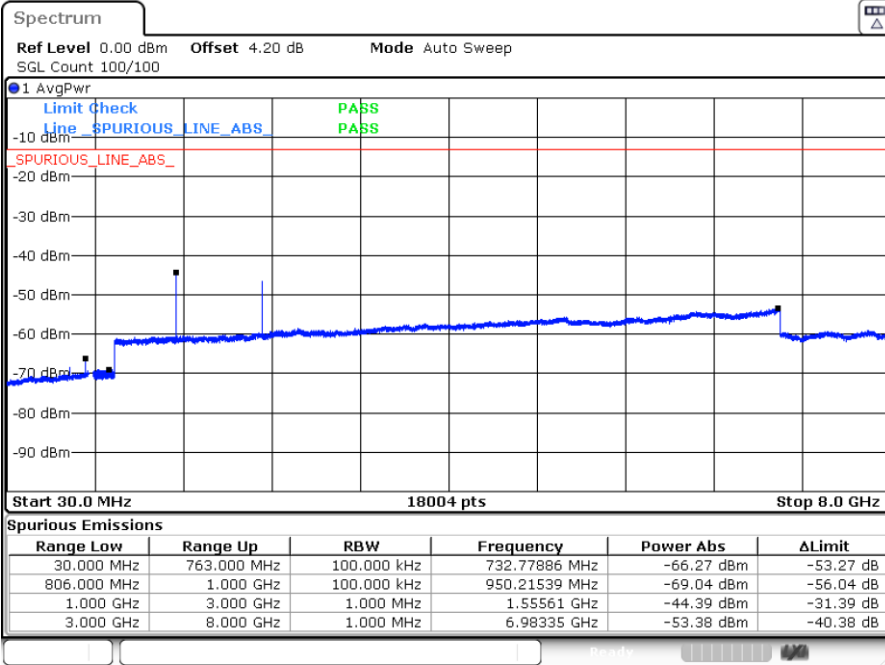
Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 22.FEB.2023 02:49:57



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	0.0025	PASS
40	Normal Voltage	0.0046	
30	Normal Voltage	0.0053	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0016	
0	Normal Voltage	0.0029	
-10	Normal Voltage	0.0034	
-20	Normal Voltage	0.0012	
-30	Normal Voltage	0.0053	
20	Maximum Voltage	0.0014	
20	Normal Voltage	0.0009	
20	Battery End Point	0.0027	

Note:

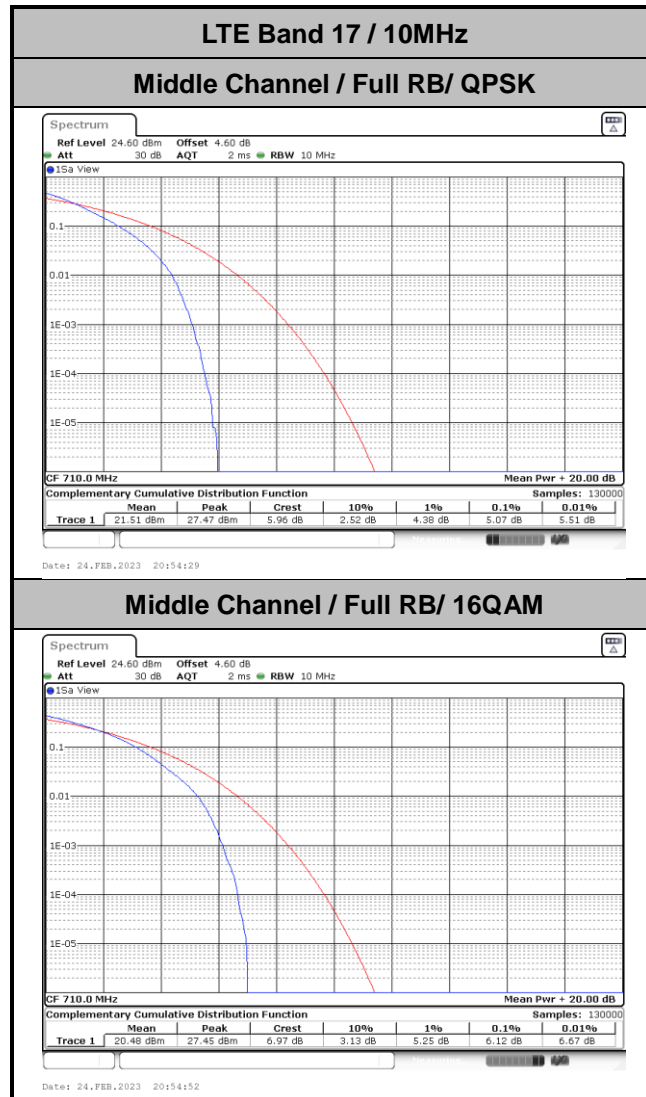
1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.45 V. ; Maximum Voltage =4.41 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.

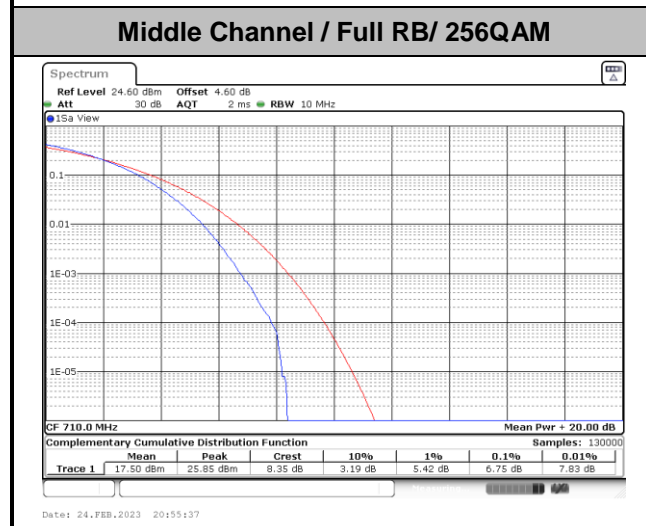
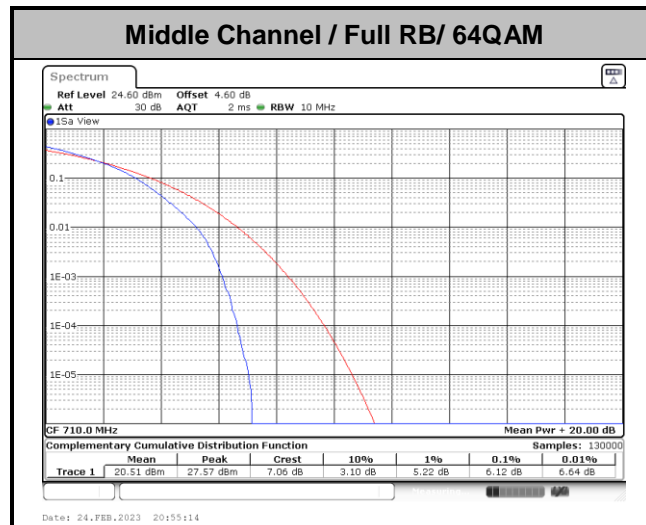


LTE Band 17

Peak-to-Average Ratio

Mode	LTE Band 17 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.07	6.12	6.12	6.75	PASS

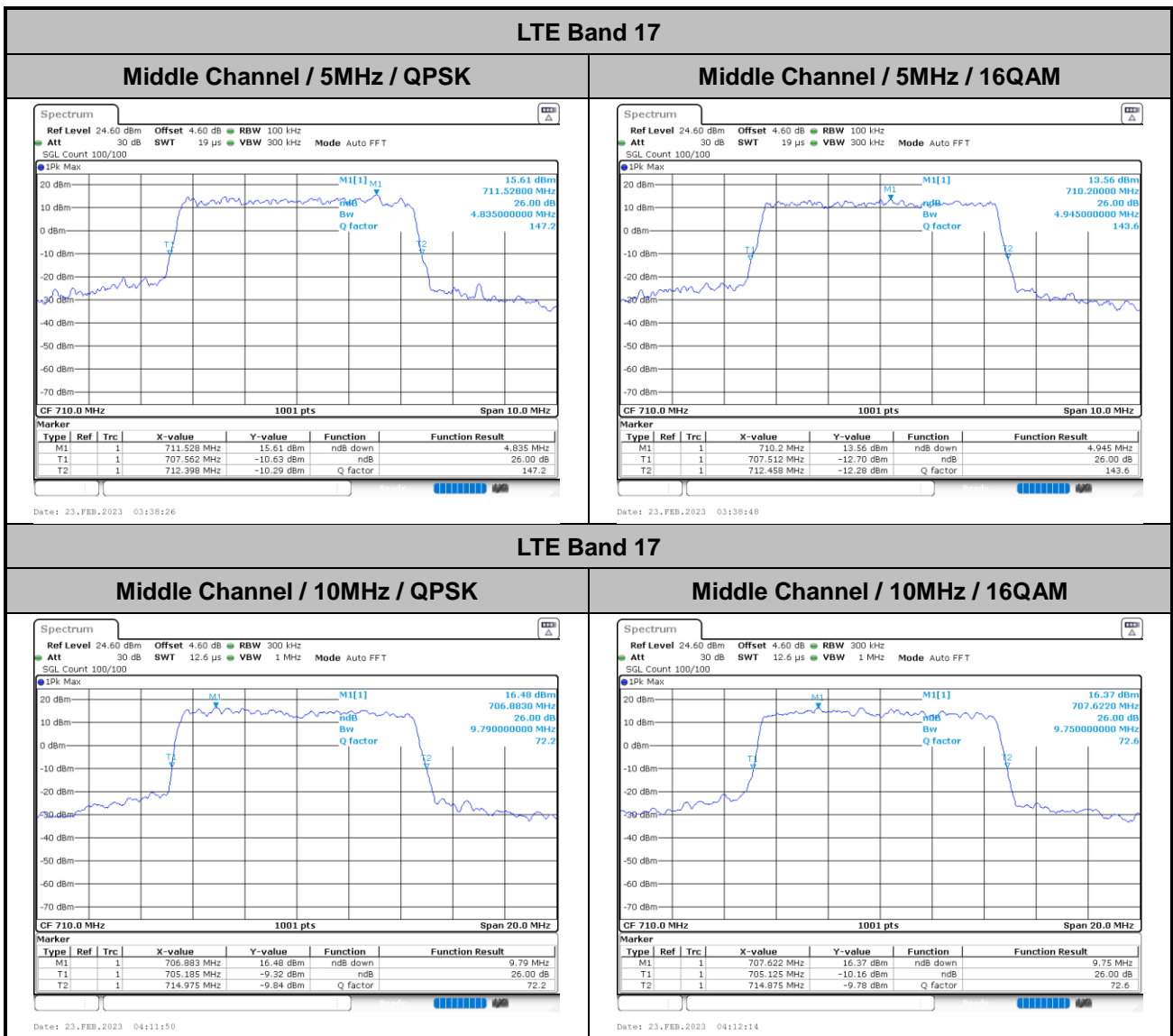






26dB Bandwidth

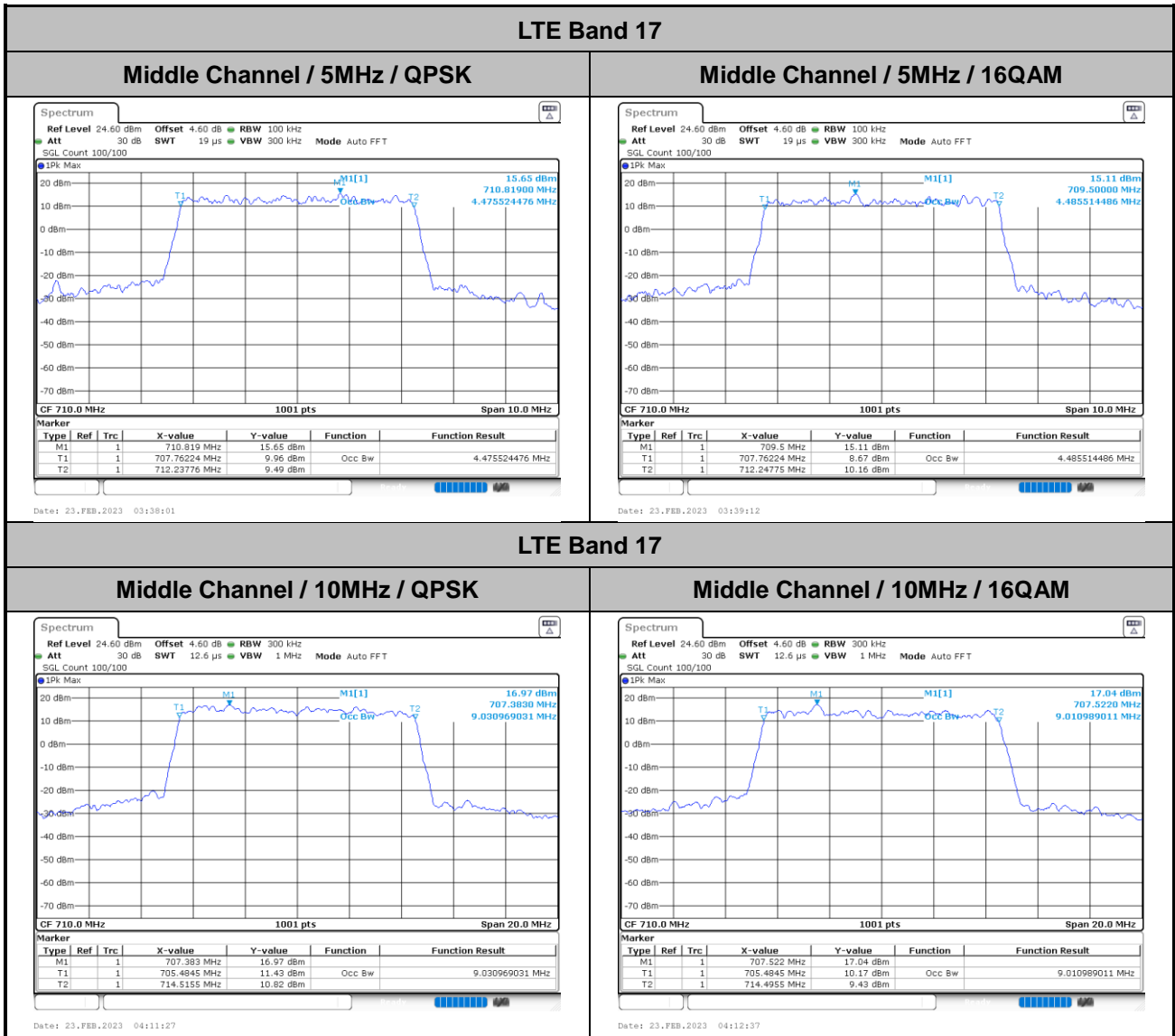
Mode	LTE Band 17 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.84	4.95
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.79	9.75





Occupied Bandwidth

Mode	LTE Band 17 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.48	4.49
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.03	9.01

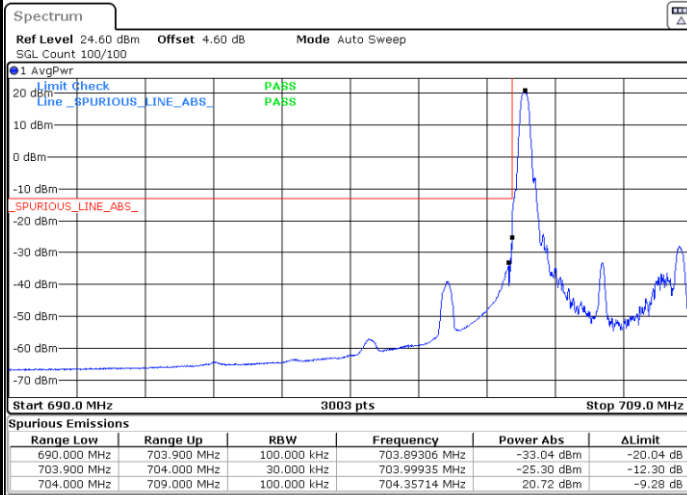




Conducted Band Edge

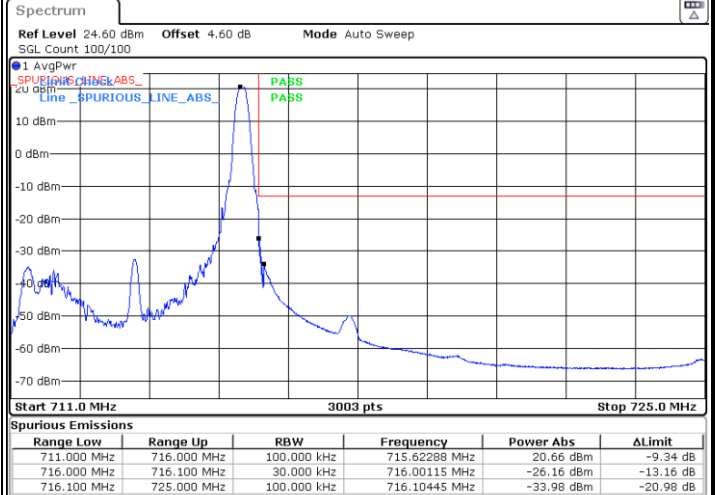
LTE Band 17 / 5MHz / QPSK

Lowest Band Edge / 1 RB



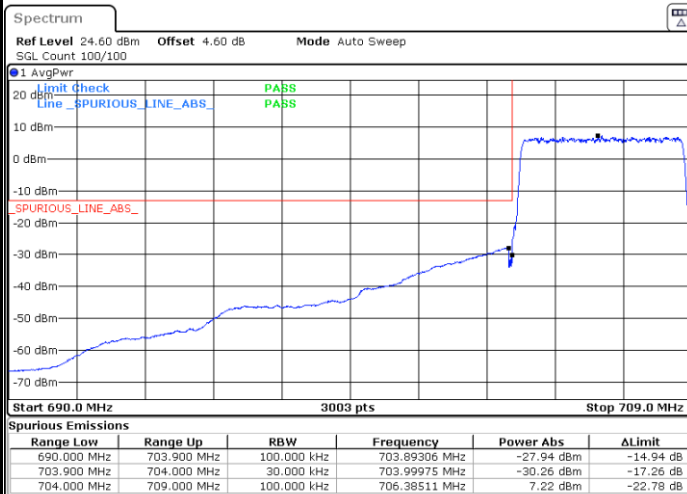
Date: 23.FEB.2023 03:22:44

Highest Band Edge / 1 RB



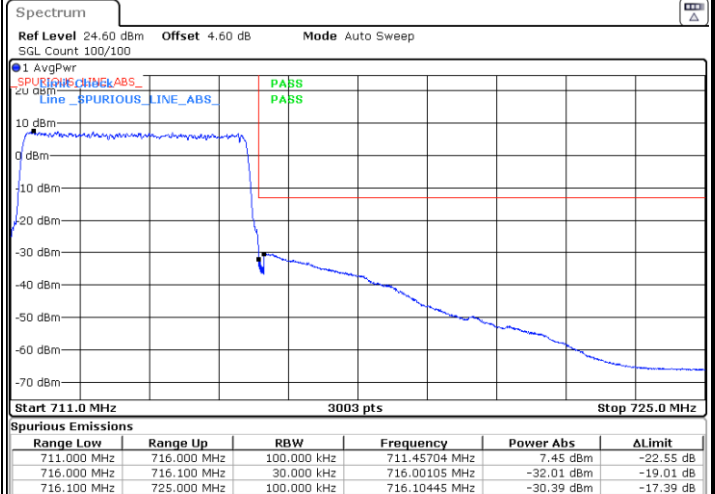
Date: 23.FEB.2023 03:42:15

Lowest Band Edge / Full RB



Date: 23.FEB.2023 03:29:40

Highest Band Edge / Full RB

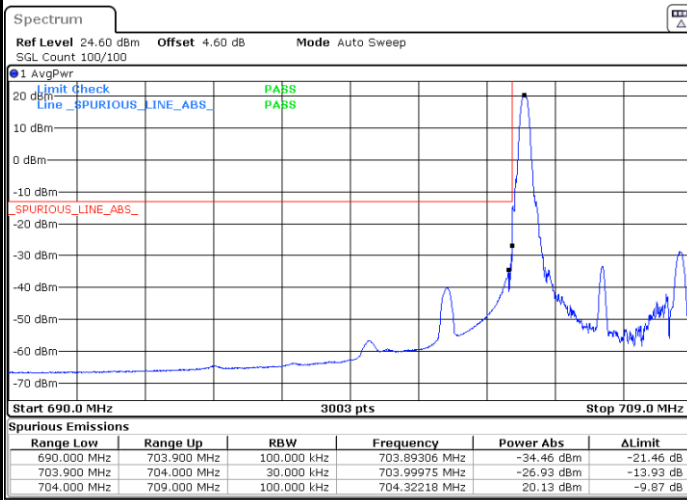


Date: 23.FEB.2023 03:49:09



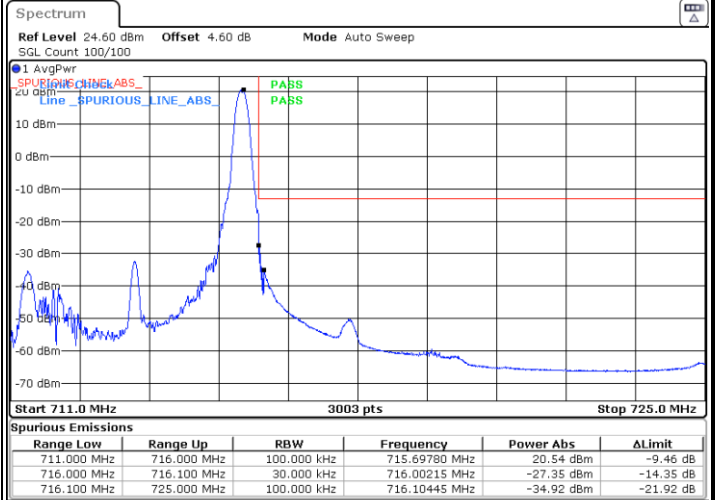
LTE Band 17 / 5MHz / 16QAM

Lowest Band Edge / 1RB



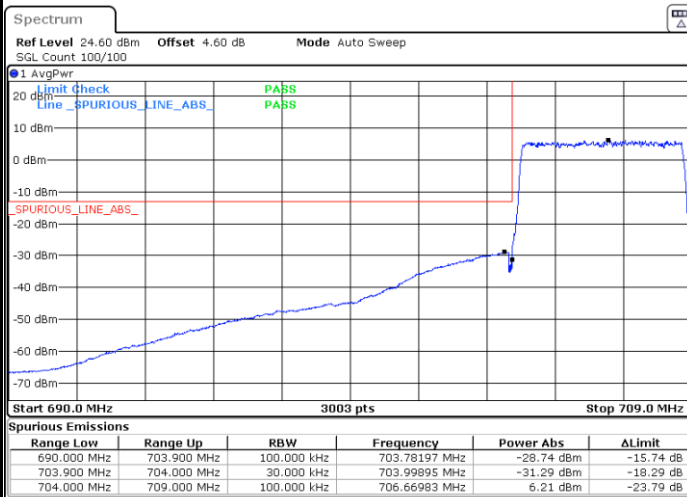
Date: 23.FEB.2023 03:24:27

Highest Band Edge / 1 RB



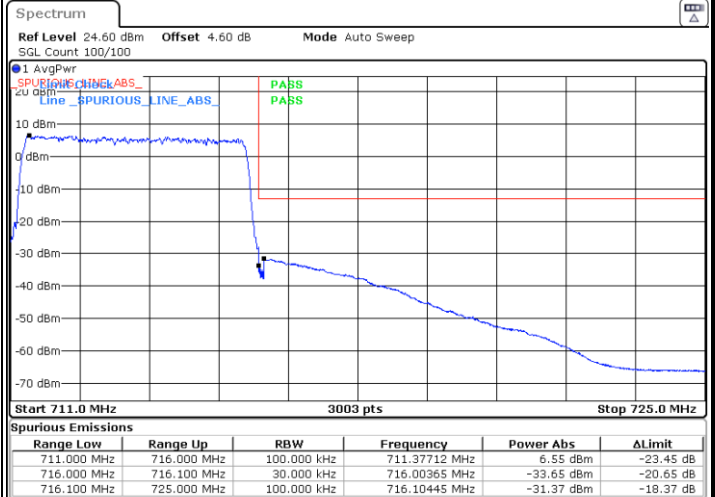
Date: 23.FEB.2023 03:43:58

Lowest Band Edge / Full RB



Date: 23.FEB.2023 03:31:23

Highest Band Edge / Full RB

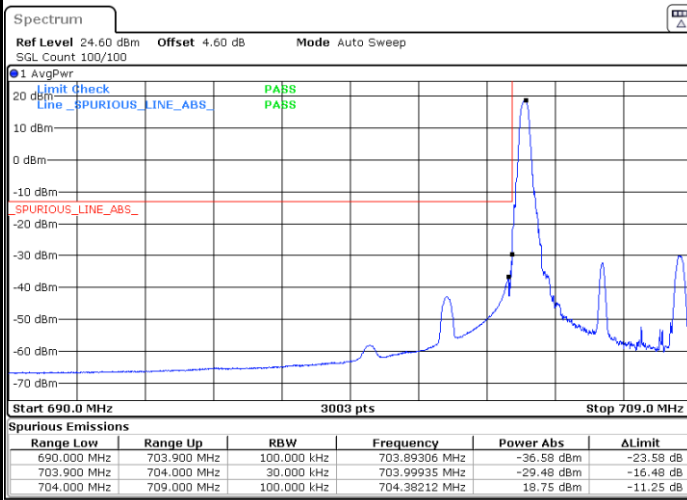


Date: 23.FEB.2023 03:50:51



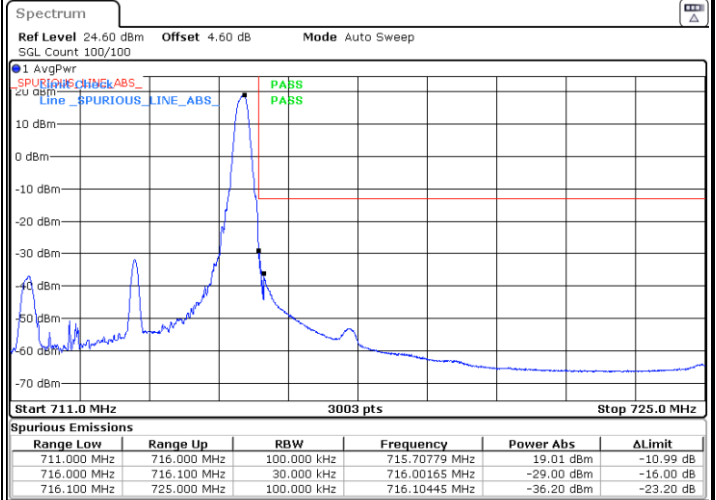
LTE Band 17 / 5MHz / 64QAM

Lowest Band Edge / 1RB



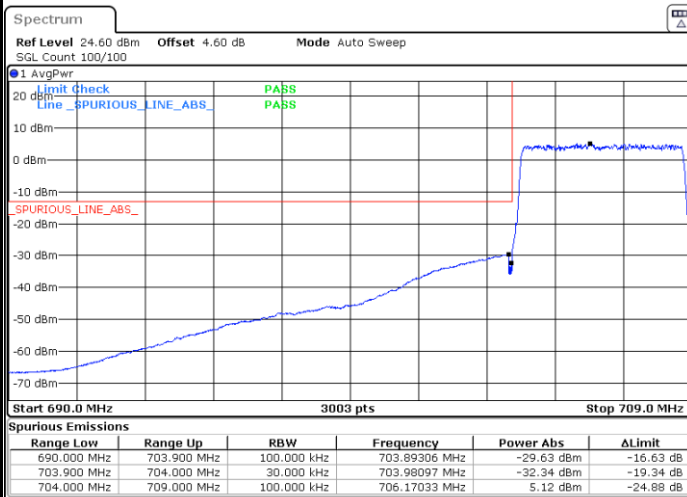
Date: 23.FEB.2023 03:26:09

Highest Band Edge / 1 RB



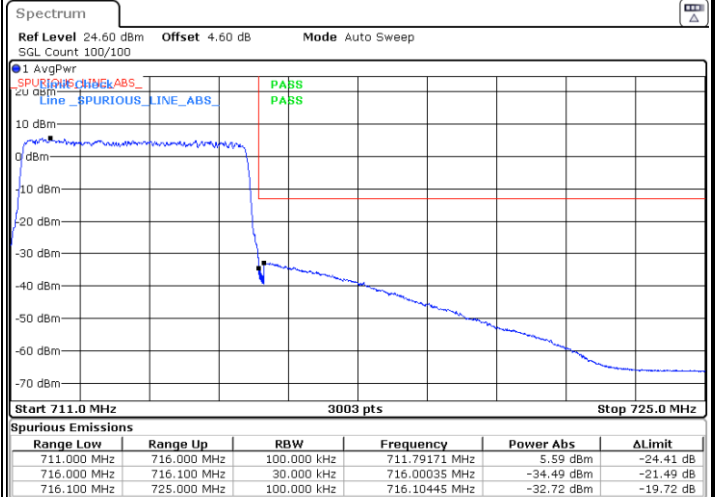
Date: 23.FEB.2023 03:45:40

Lowest Band Edge / Full RB



Date: 23.FEB.2023 03:33:06

Highest Band Edge / Full RB

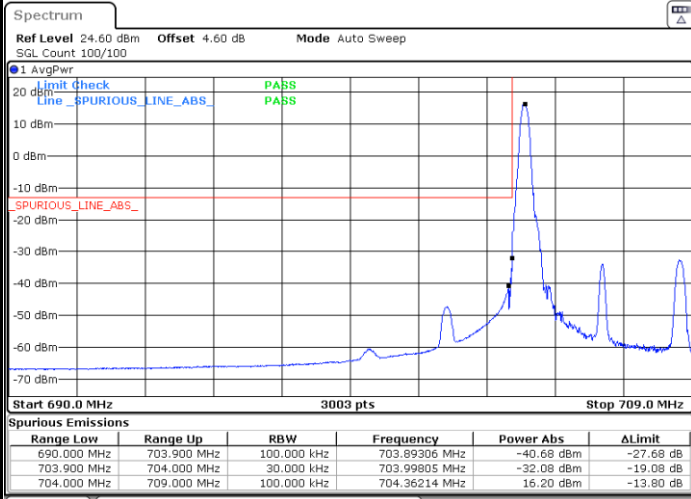


Date: 23.FEB.2023 03:52:33



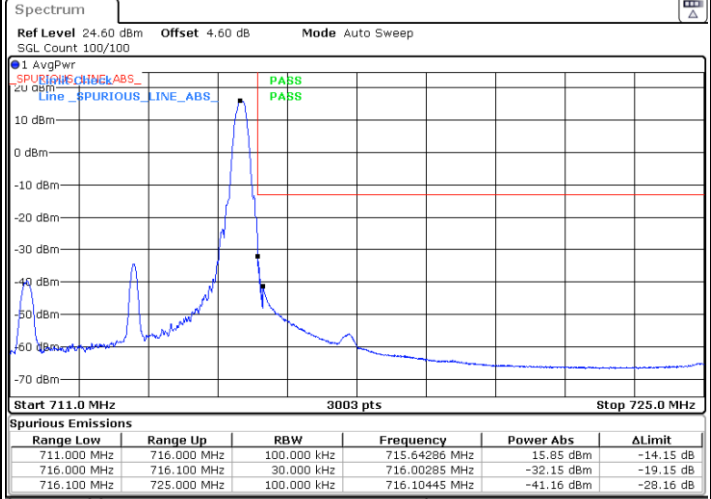
LTE Band 17 / 5MHz / 256QAM

Lowest Band Edge / 1RB



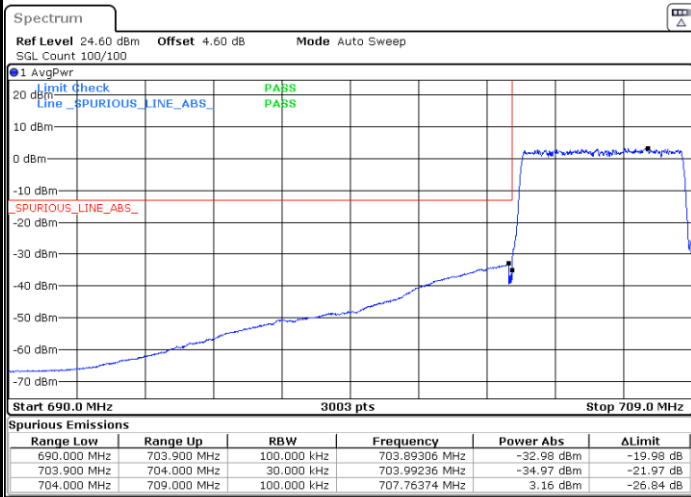
Date: 23.FEB.2023 03:27:52

Highest Band Edge / 1 RB



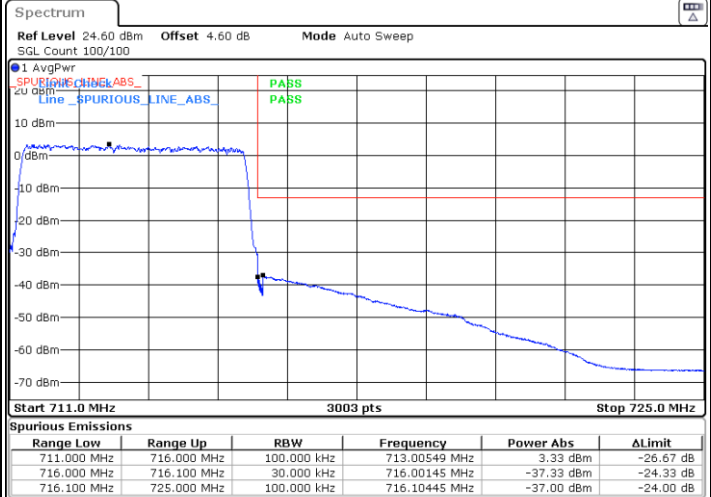
Date: 23.FEB.2023 03:47:22

Lowest Band Edge / Full RB



Date: 23.FEB.2023 03:34:49

Highest Band Edge / Full RB

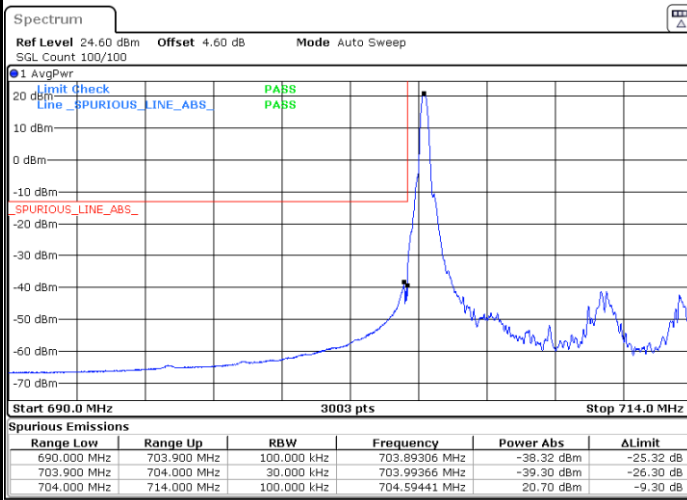


Date: 23.FEB.2023 03:54:15



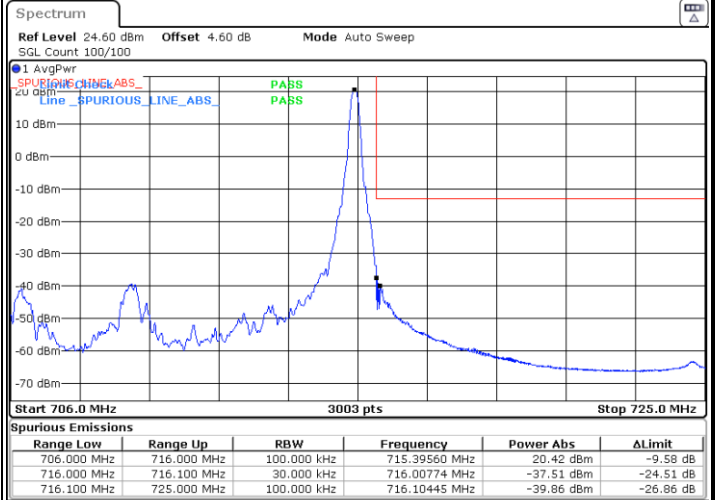
LTE Band 17 / 10MHz / QPSK

Lowest Band Edge / 1 RB



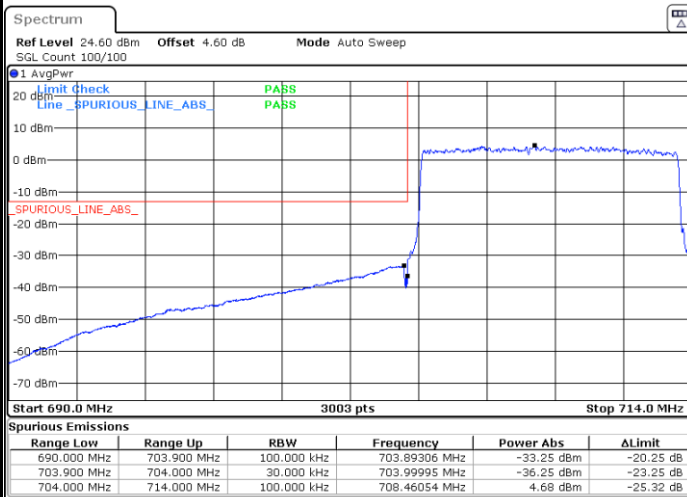
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Highest Band Edge / 1 RB



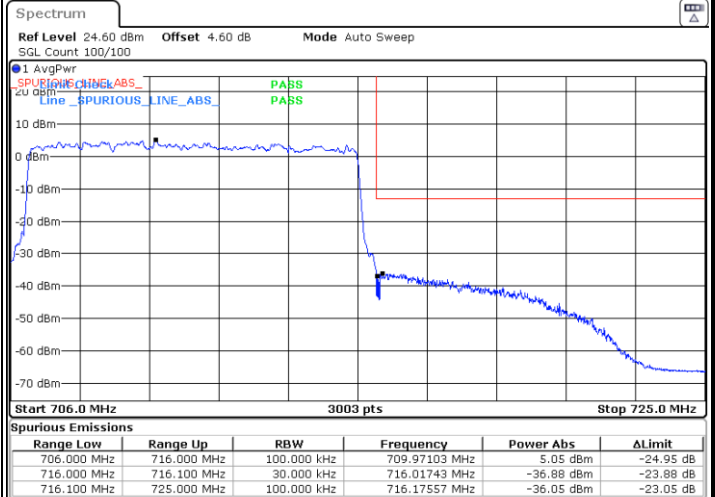
Date: 23.FEB.2023 04:15:40

Lowest Band Edge / Full RB



Date: 23.FEB.2023 03:57:34

Highest Band Edge / Full RB



Date: 23.FEB.2023 04:22:27