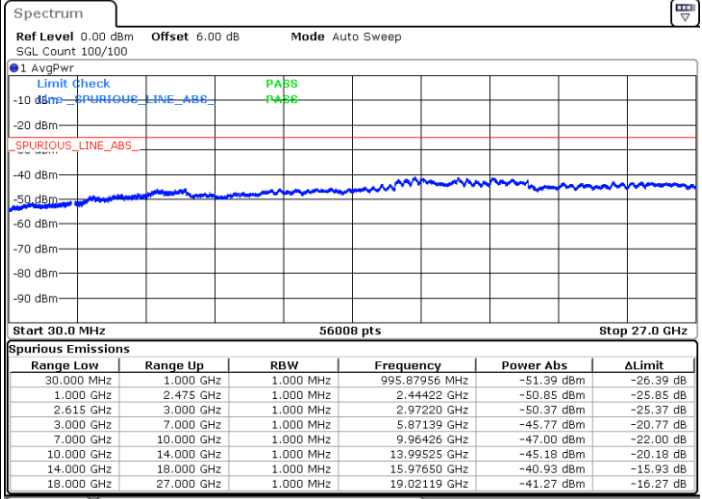
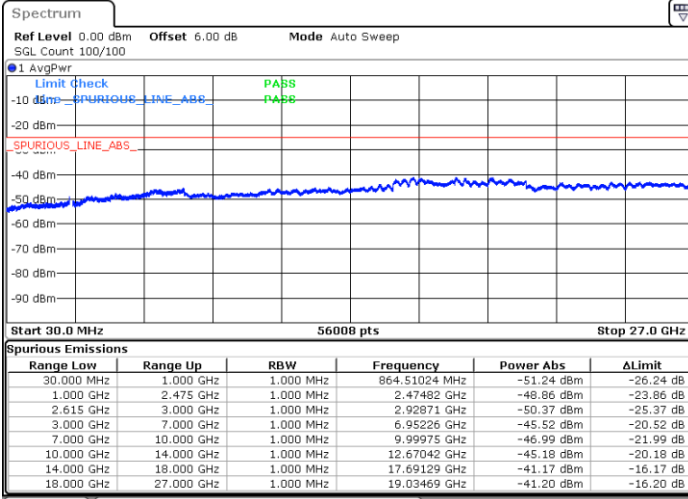




LTE Band 7 / 15MHz+20MHz

Lowest Channel / QPSK

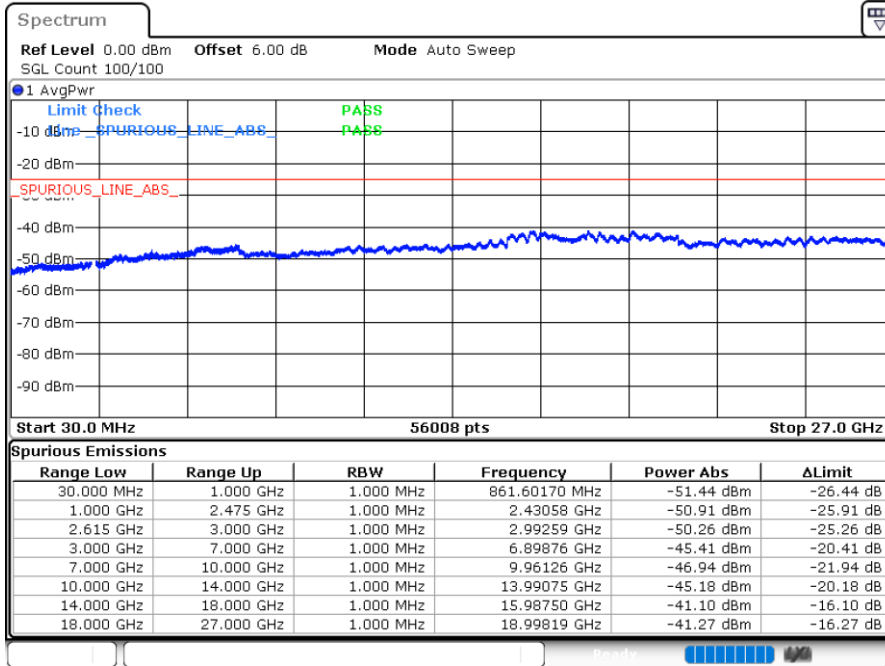
Middle Channel / QPSK



Date: 23.JUL.2024 04:27:13

Date: 23.JUL.2024 04:41:13

Highest Channel / QPSK



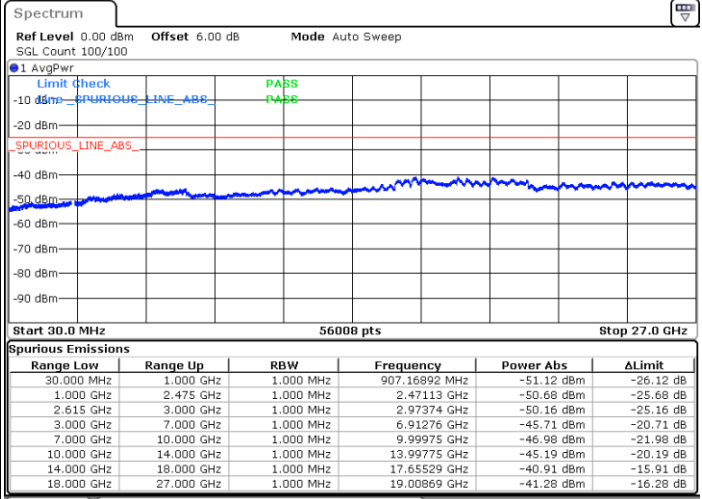
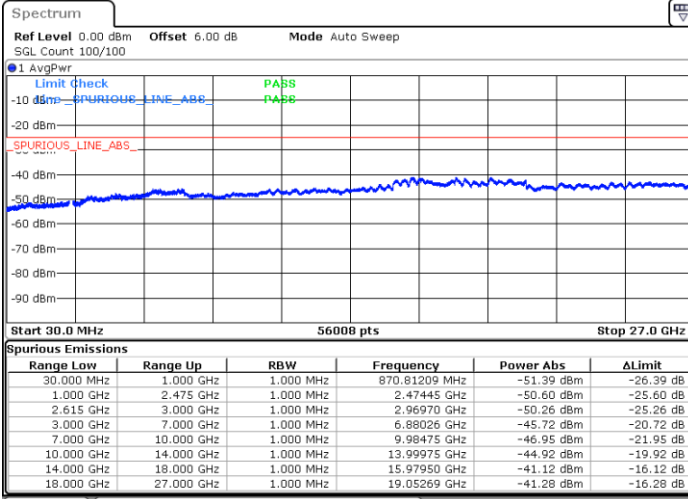
Date: 23.JUL.2024 04:45:11



LTE Band 7 / 20MHz+10MHz

Lowest Channel / QPSK

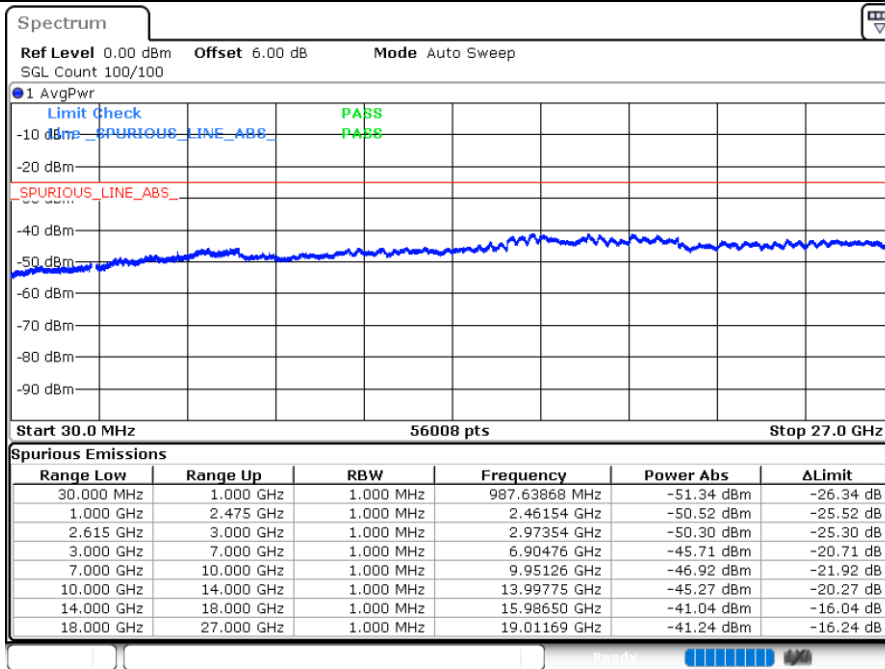
Middle Channel / QPSK



Date: 23.JUL.2024 04:58:45

Date: 23.JUL.2024 05:12:45

Highest Channel / QPSK



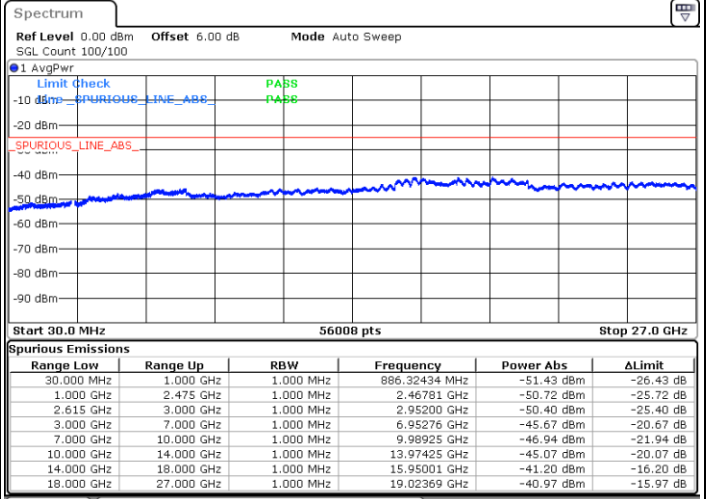
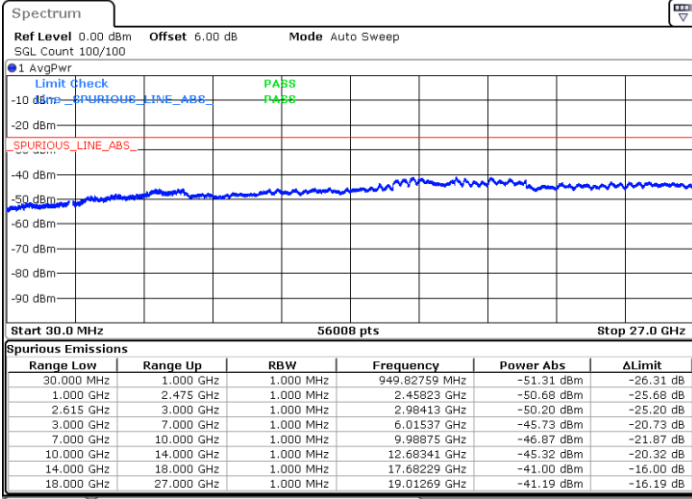
Date: 23.JUL.2024 05:16:44



LTE Band 7 / 20MHz+15MHz

Lowest Channel / QPSK

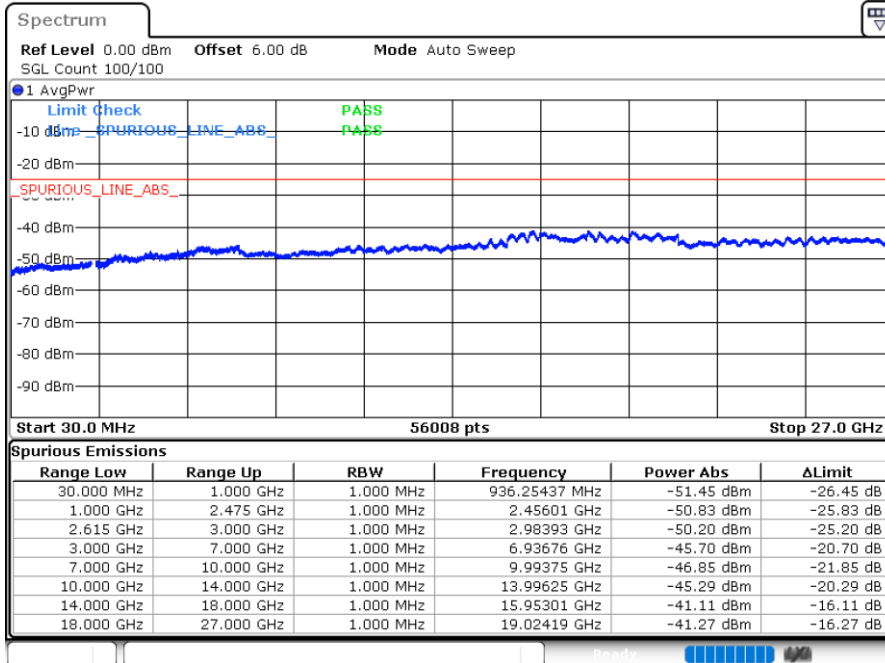
Middle Channel / QPSK



Date: 23.JUL.2024 05:30:16

Date: 23.JUL.2024 05:44:15

Highest Channel / QPSK



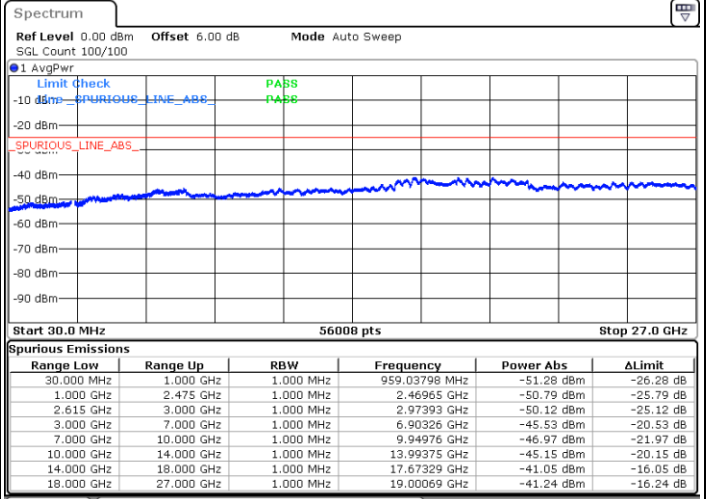
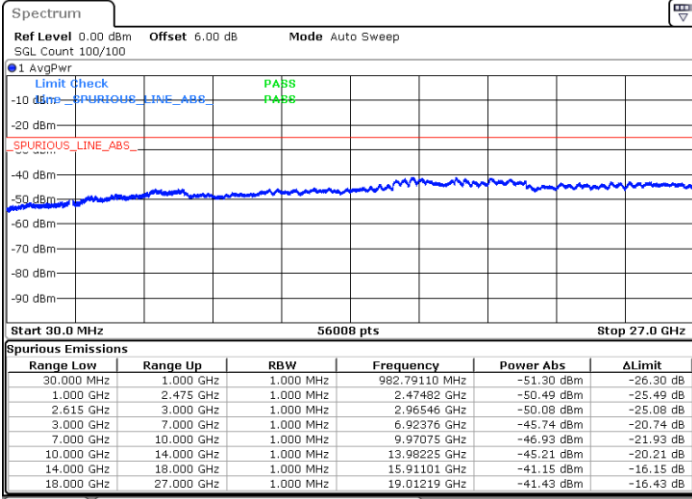
Date: 23.JUL.2024 05:48:14



LTE Band 7 /20MHz+20MHz

Lowest Channel / QPSK

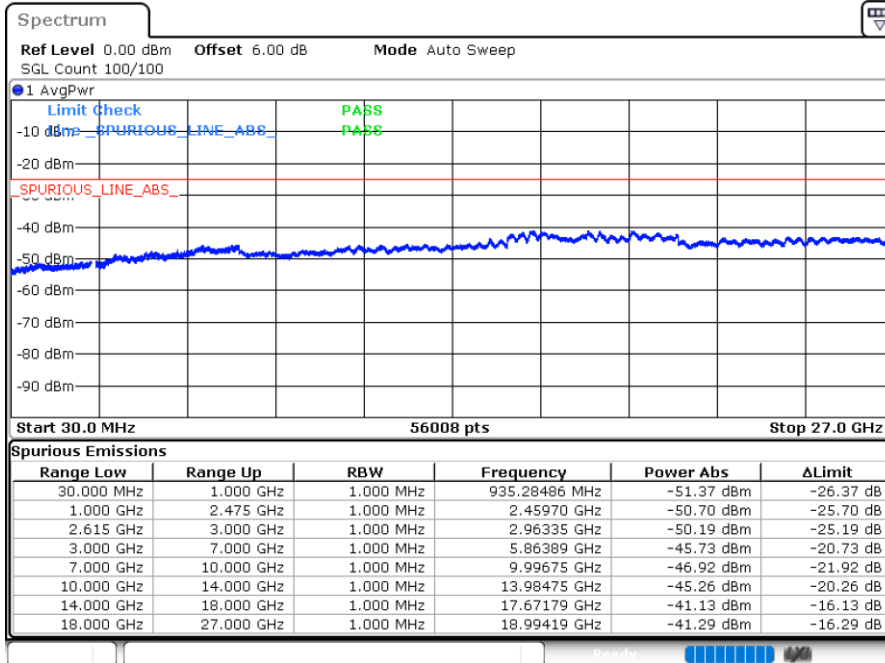
Middle Channel / QPSK



Date: 23.JUL.2024 06:01:43

Date: 23.JUL.2024 06:15:20

Highest Channel / QPSK



Date: 23.JUL.2024 06:19:09



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20+20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0023	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0038	
-30	Normal Voltage	0.0046	
20	Maximum Voltage	0.0057	
20	Normal Voltage	0.0066	
20	Battery End Point	0.0034	

Note:

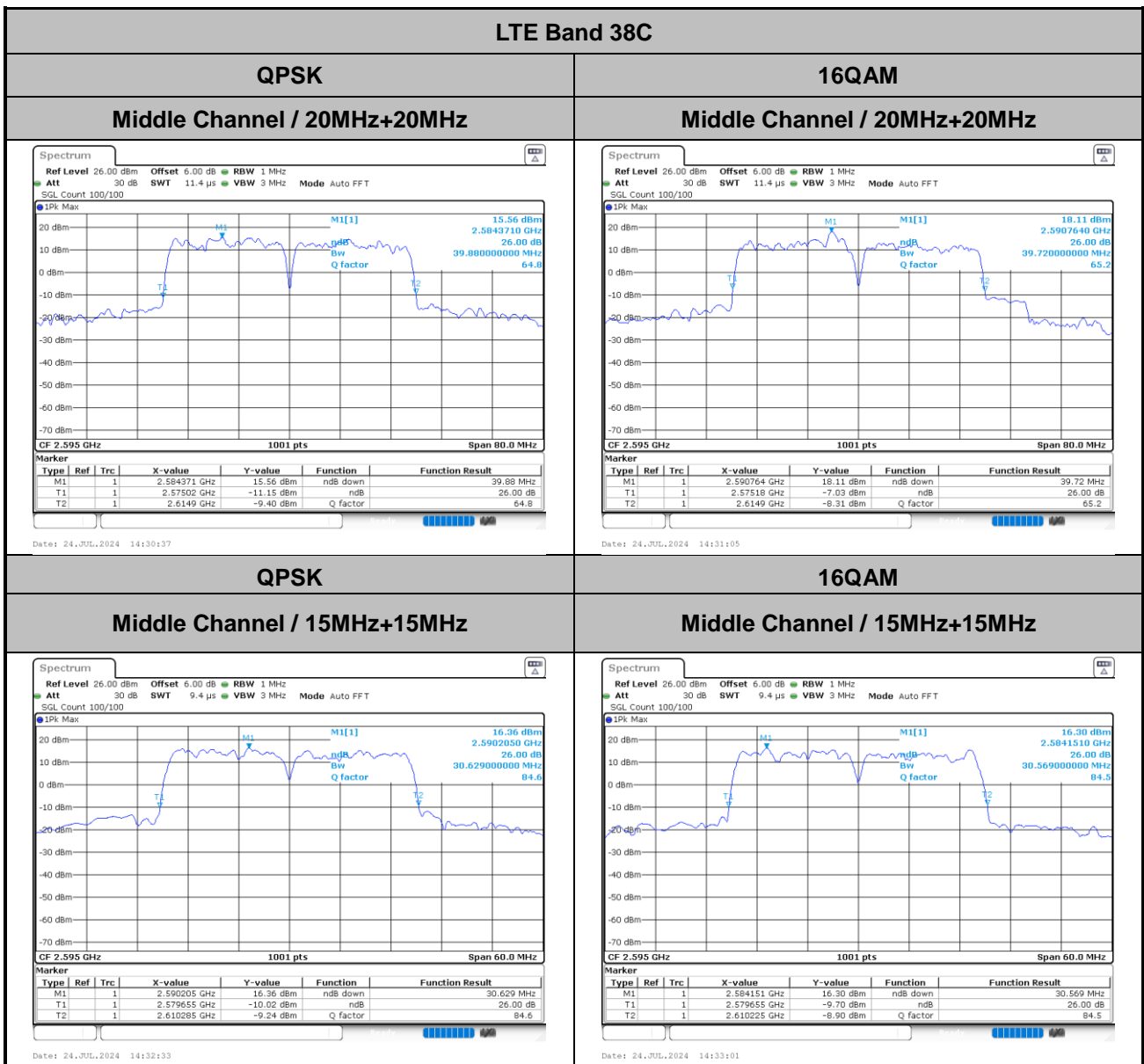
1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.6V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band CA_38C

26dB Bandwidth

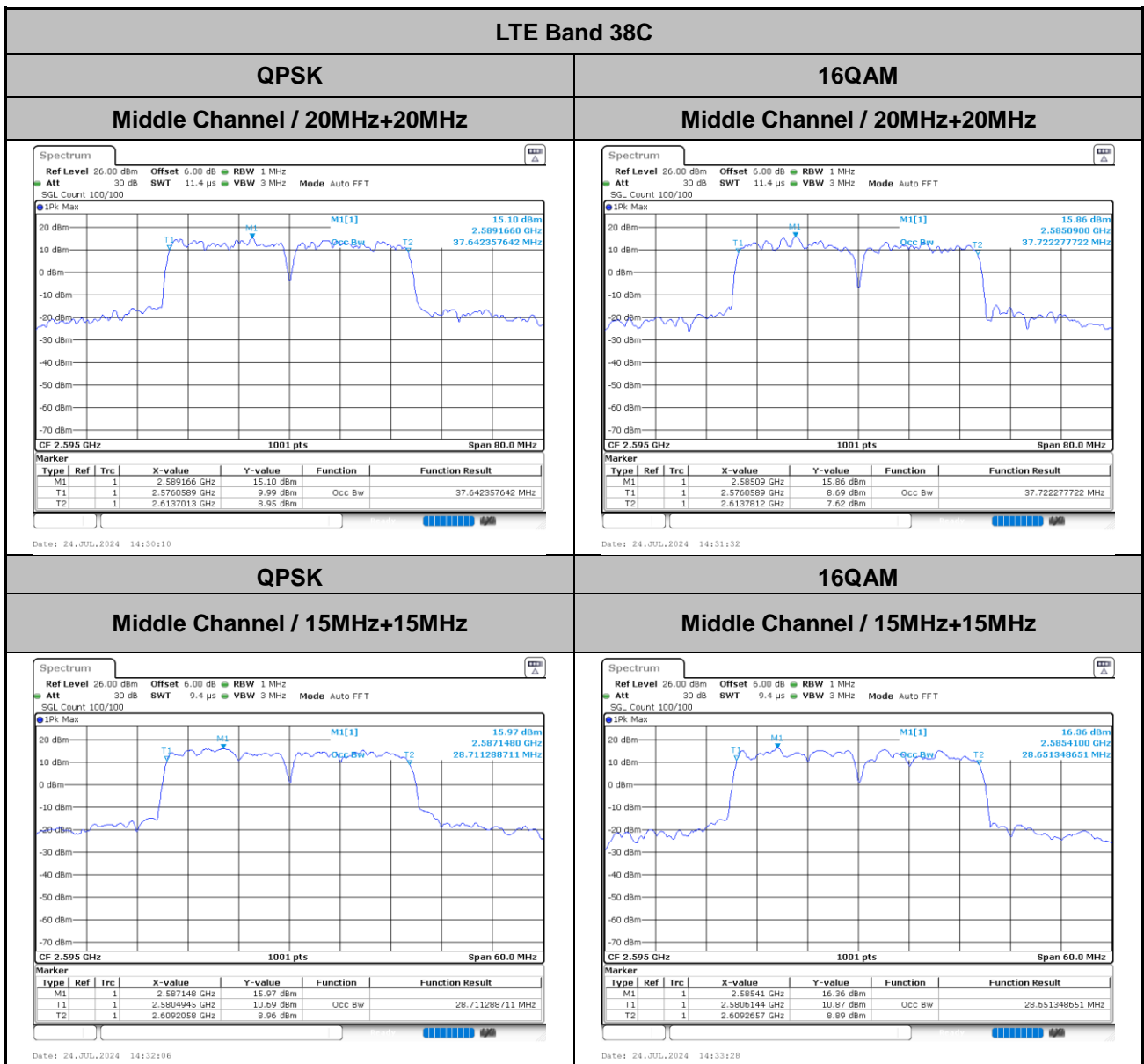
Mode	LTE Band 38C : 26dB BW(MHz)	
Mod.	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	39.88	39.72
Mod.	QPSK	16QAM
BW	15MHz+15MHz	15MHz+15MHz
Middle CH	30.63	30.57





Occupied Bandwidth

Mode	LTE Band 38C : 99%OBW(MHz)	
Mod.	QPSK	16QAM
BW	20MHz+20MHz	20MHz+20MHz
Middle CH	37.64	37.72
Mod.	QPSK	16QAM
BW	15MHz+15MHz	15MHz+15MHz
Middle CH	28.71	28.65



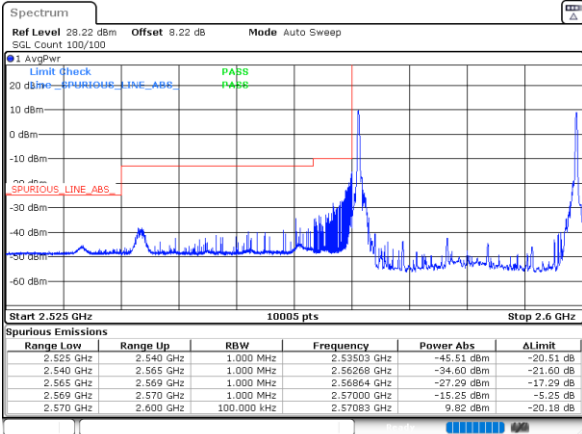


Conducted Band Edge

LTE Band 38C / 15MHz+15MHz

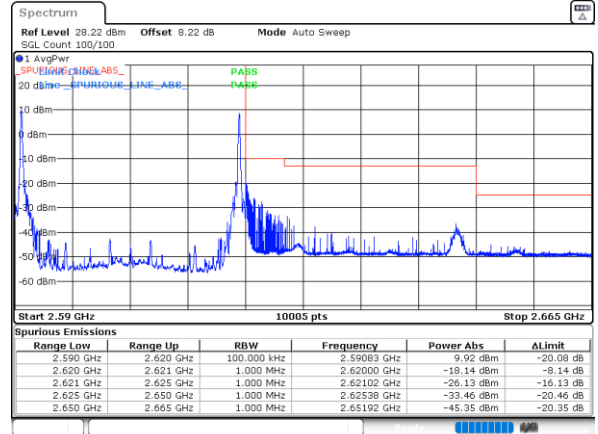
QPSK

Lowest Band Edge / 1RB0 and 1RB74



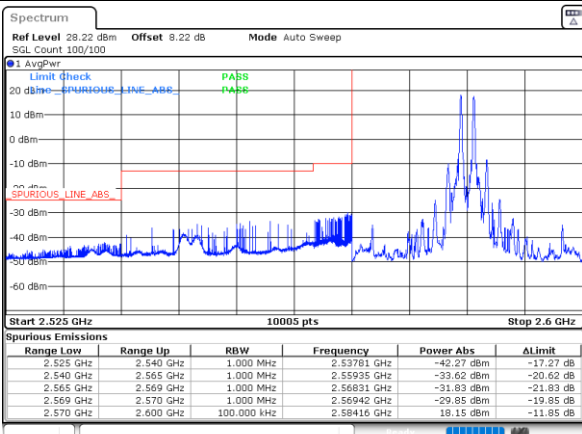
Date: 24, JUL, 2024 13:27:46

Highest Band Edge / 1RB0 and 1RB74



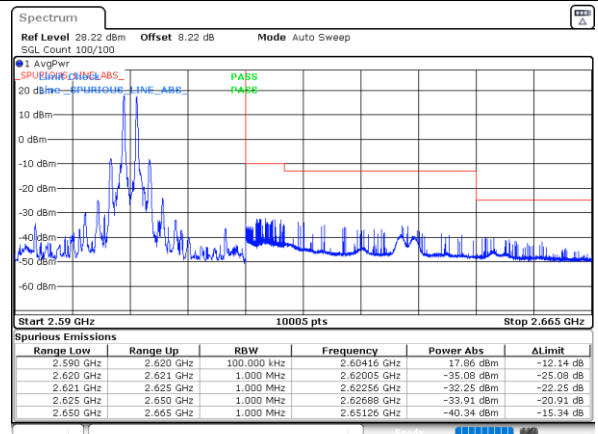
Date: 24, JUL, 2024 13:42:56

Lowest Band Edge / 1RB74 and 1RB0



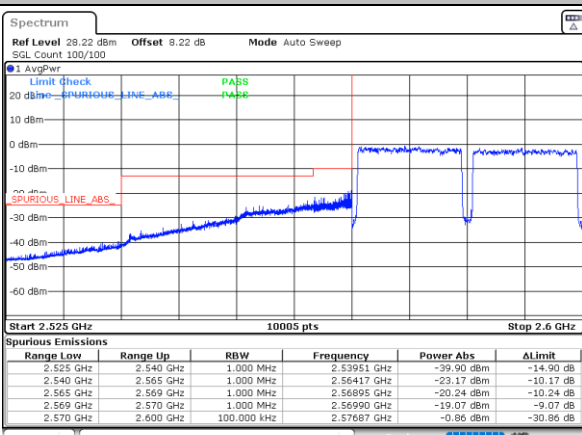
Date: 24, JUL, 2024 13:31:15

Highest Band Edge / 1RB74 and 1RB0



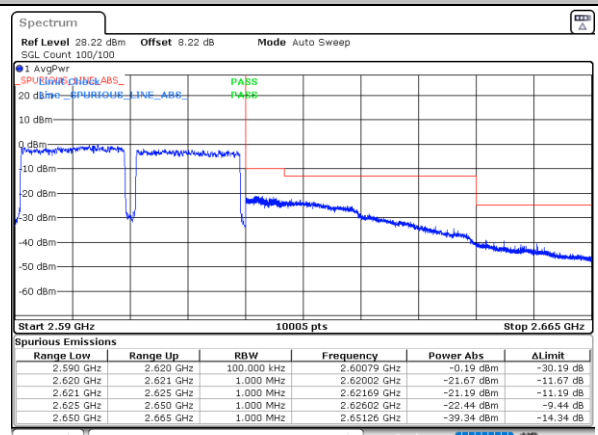
Date: 24, JUL, 2024 13:39:29

Lowest Band Edge / Full RB



Date: 24, JUL, 2024 13:24:16

Highest Band Edge / Full RB



Date: 24, JUL, 2024 13:46:24

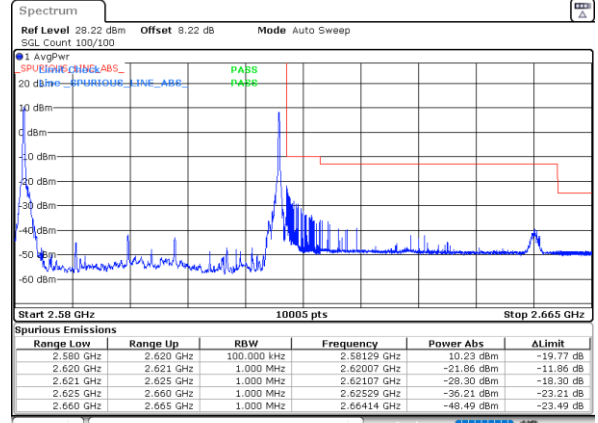
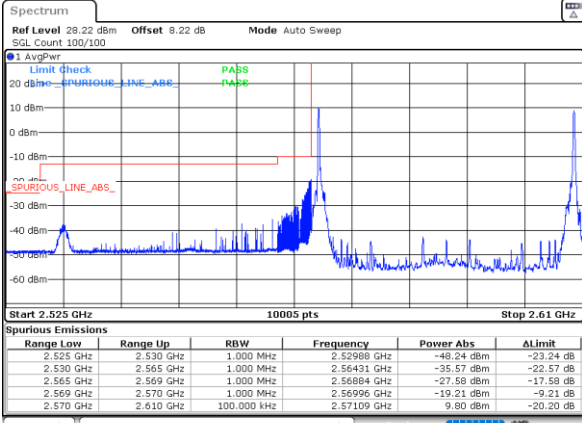


LTE Band 38C / 20MHz+20MHz

QPSK

Lowest Band Edge / 1RB0 and 1RB99

Highest Band Edge / 1RB0 and 1RB99

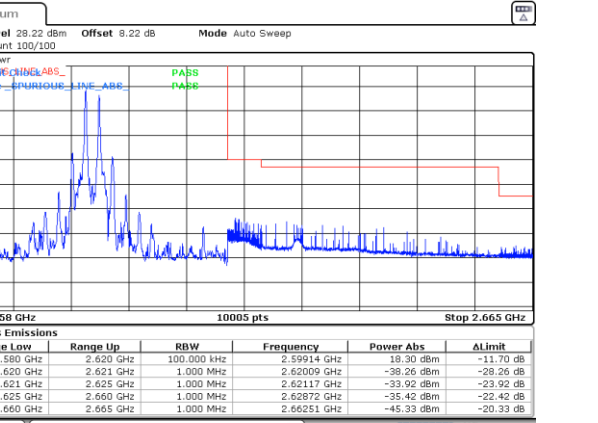
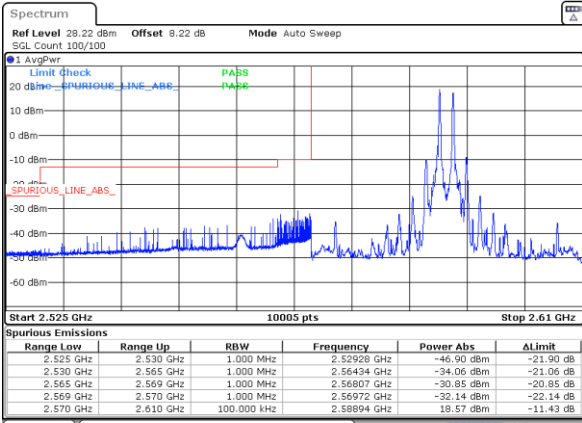


Date: 24.JUL.2024 13:57:43

Date: 24.JUL.2024 14:12:54

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

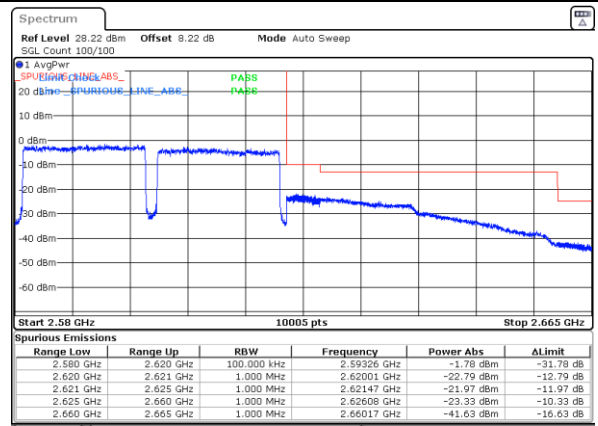
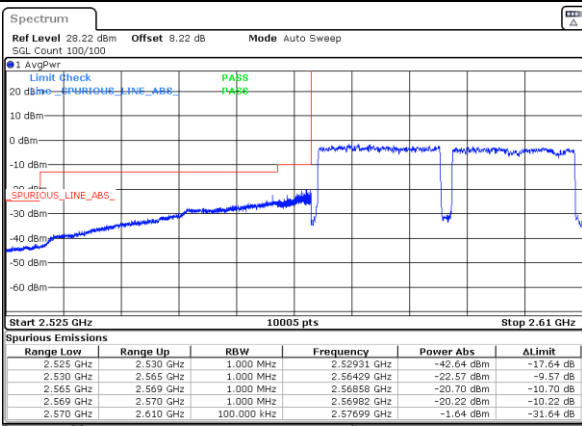


Date: 24.JUL.2024 14:01:12

Date: 24.JUL.2024 14:09:26

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24.JUL.2024 13:54:14

Date: 24.JUL.2024 14:19:14

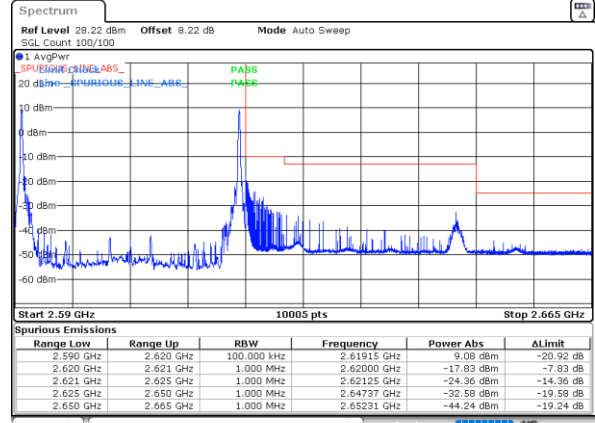
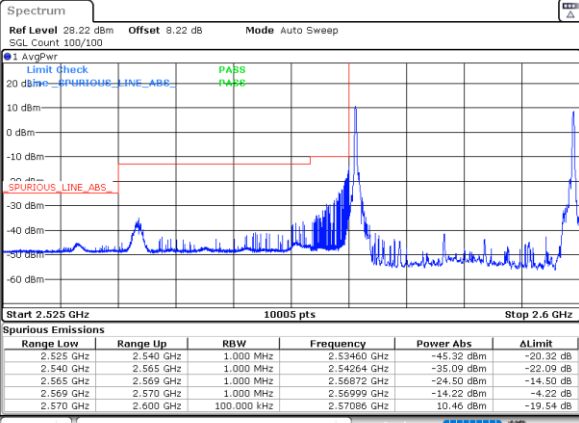


LTE Band 38C / 15MHz+15MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

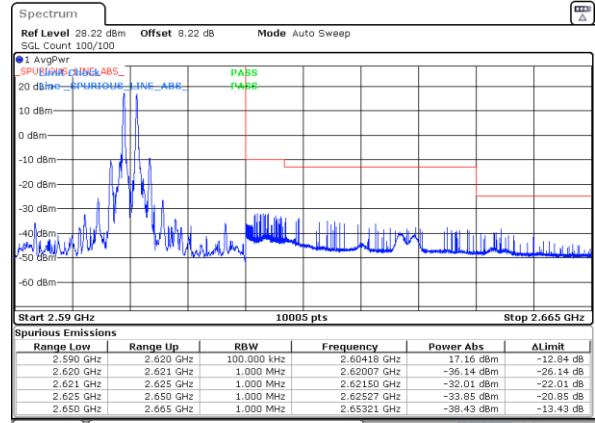
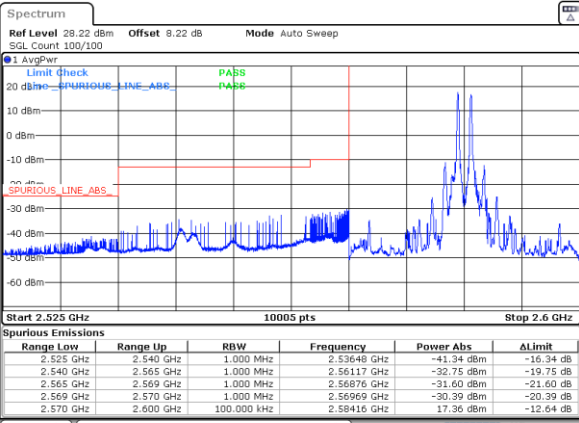


Date: 24, JUL, 2024 13:28:38

Date: 24, JUL, 2024 13:43:48

Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0

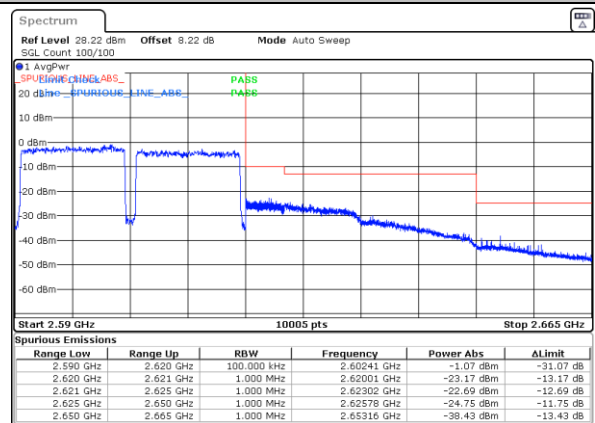
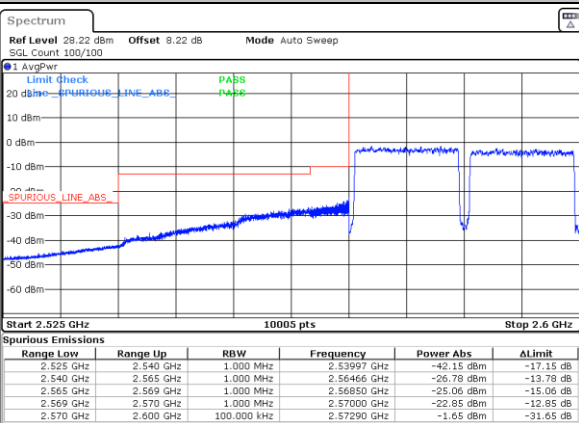


Date: 24, JUL, 2024 13:32:07

Date: 24, JUL, 2024 13:40:21

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24, JUL, 2024 13:25:09

Date: 24, JUL, 2024 13:47:16

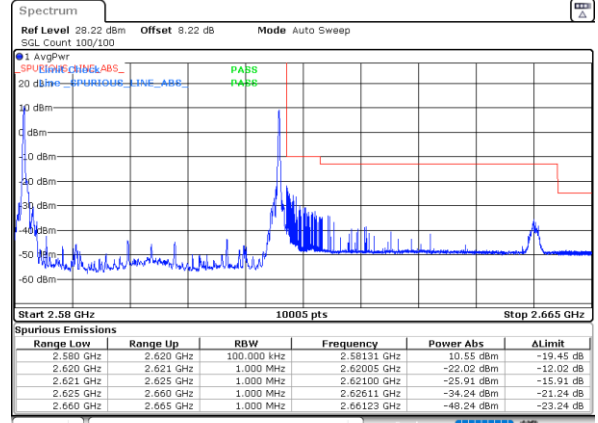
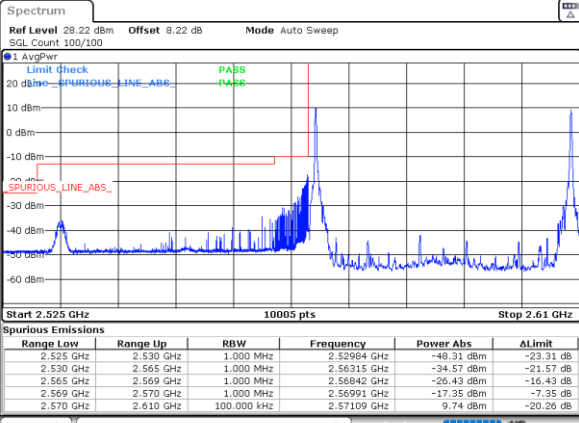


LTE Band 38C / 20MHz+20MHz

16QAM

Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9

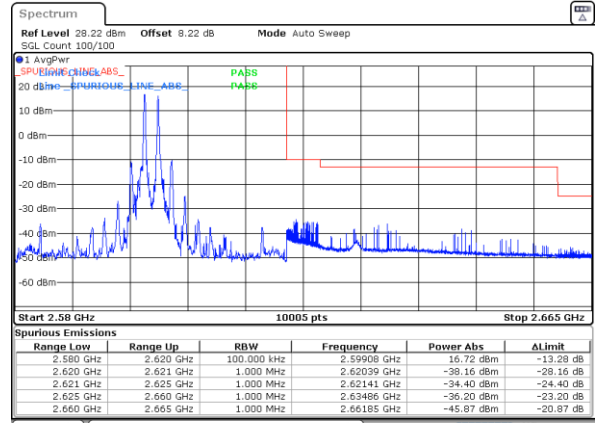
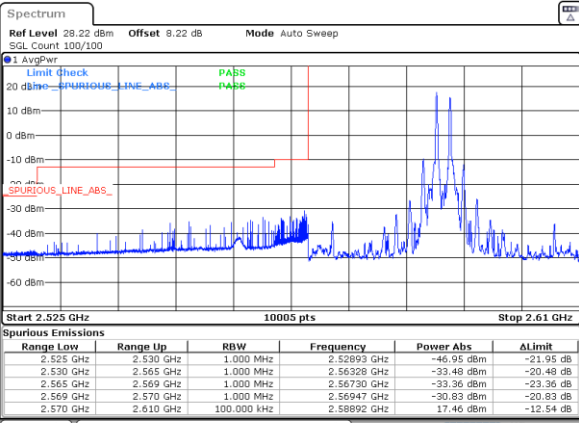


Date: 24_JUL_2024 13:58:35

Date: 24_JUL_2024 14:13:46

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

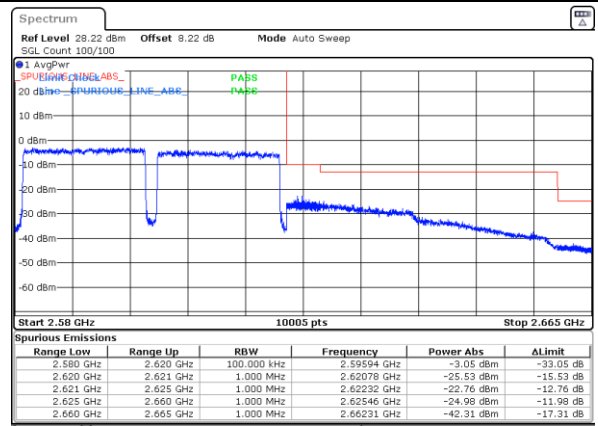
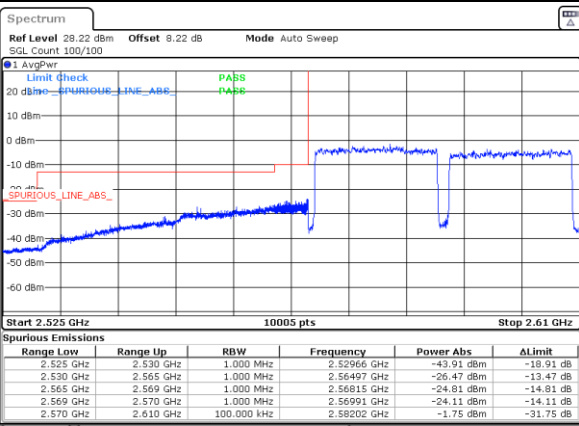


Date: 24_JUL_2024 14:02:03

Date: 24_JUL_2024 14:10:18

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24_JUL_2024 13:55:06

Date: 24_JUL_2024 14:20:06

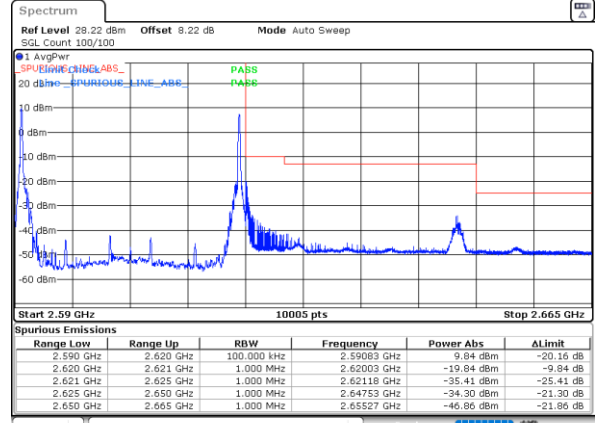
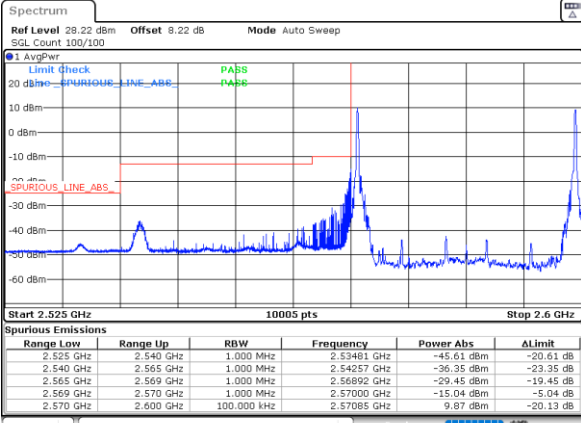


LTE Band 38C / 15MHz+15MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

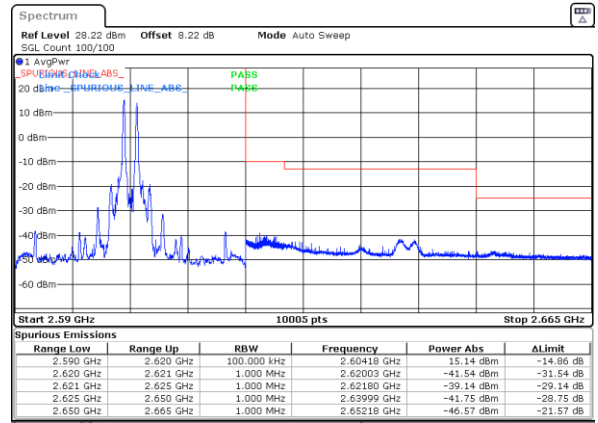
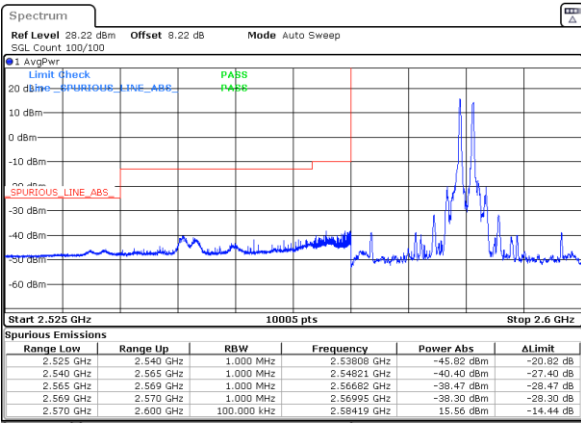


Date: 24.JUL.2024 13:29:31

Date: 24.JUL.2024 13:44:40

Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0

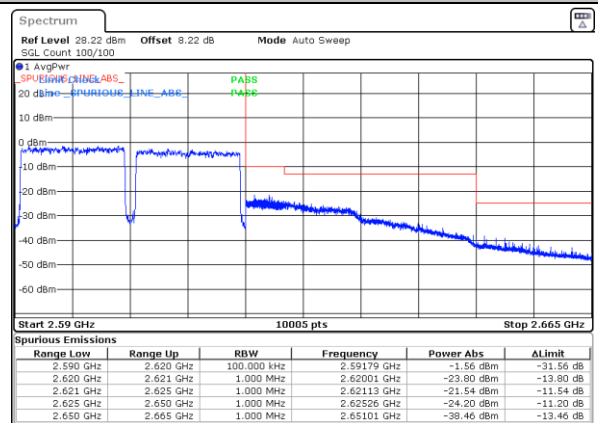
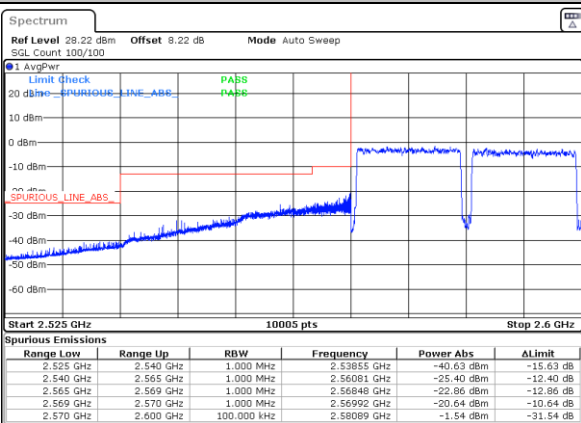


Date: 24.JUL.2024 13:32:59

Date: 24.JUL.2024 13:41:13

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24.JUL.2024 13:26:01

Date: 24.JUL.2024 13:48:08

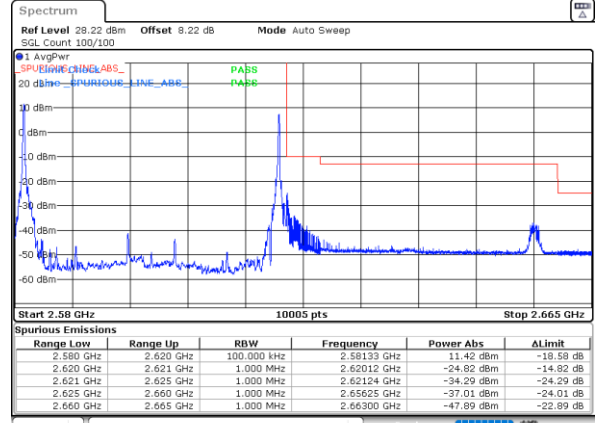
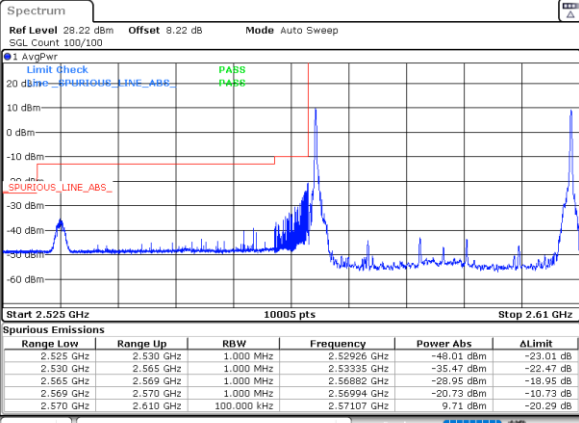


LTE Band 38C / 20MHz+20MHz

64QAM

Lowest Band Edge / 1RB0 and 1RB9

Highest Band Edge / 1RB0 and 1RB9

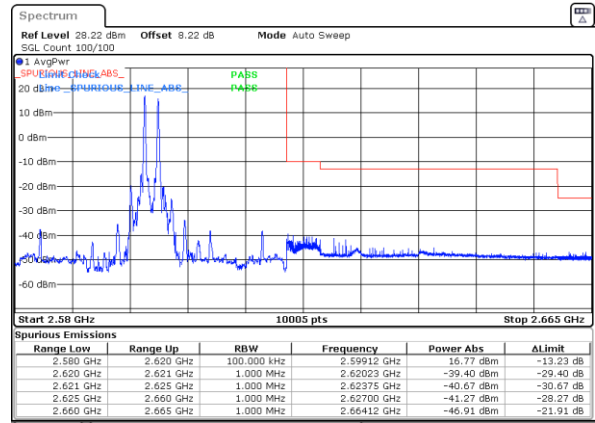
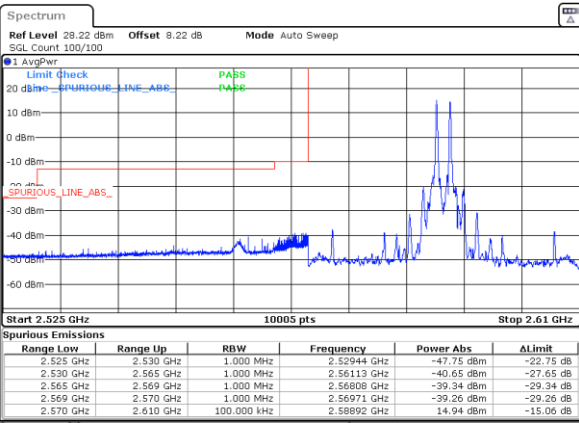


Date: 24.JUL.2024 13:59:27

Date: 24.JUL.2024 14:14:38

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

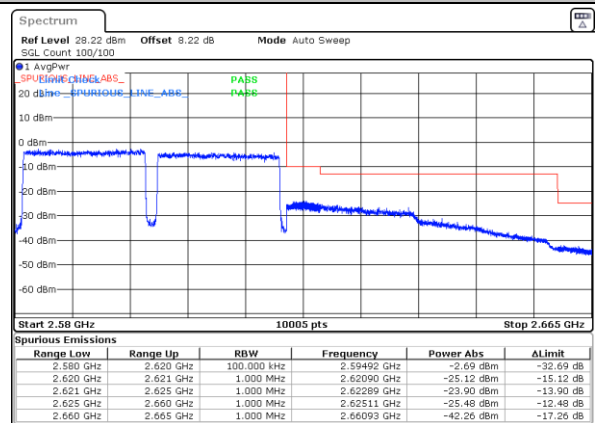
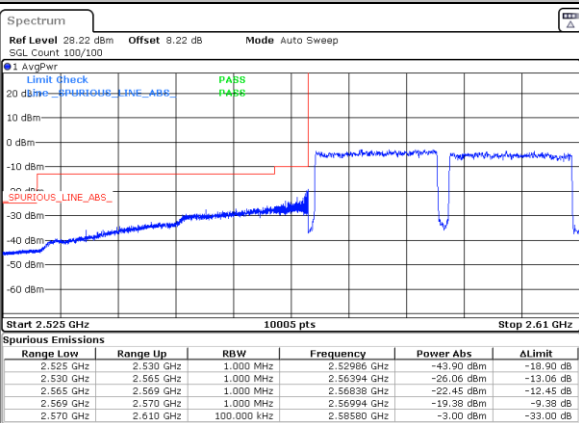


Date: 24.JUL.2024 14:02:55

Date: 24.JUL.2024 14:11:10

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24.JUL.2024 13:55:56

Date: 24.JUL.2024 14:20:58

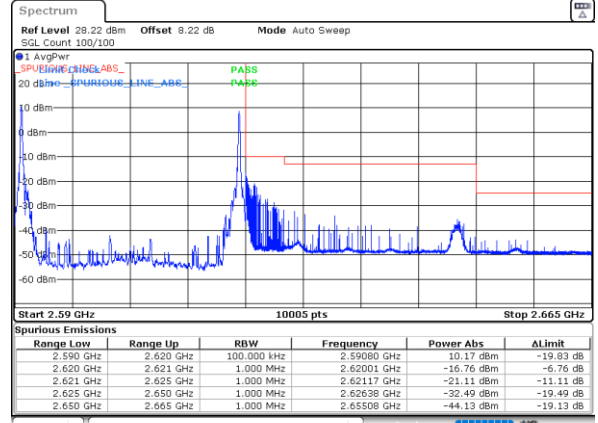
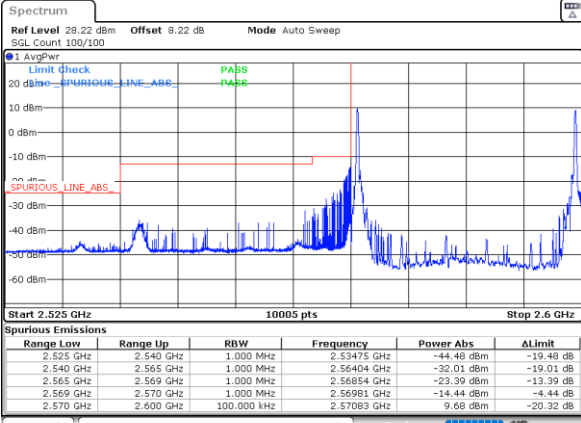


LTE Band 38C / 15MHz+15MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB74

Highest Band Edge / 1RB0 and 1RB74

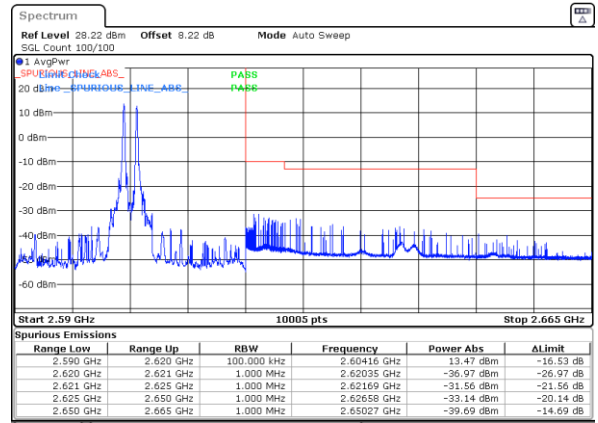
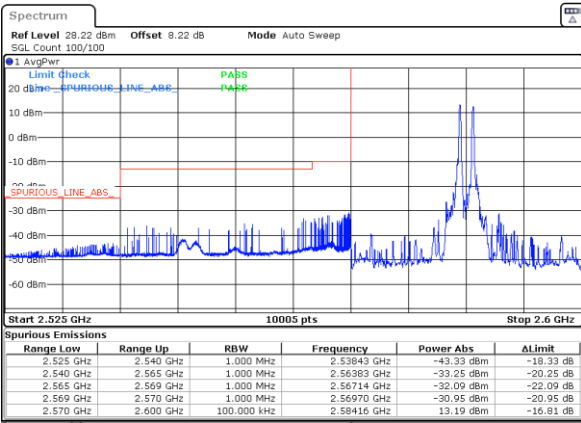


Date: 24, JUL, 2024 13:30:23

Date: 24, JUL, 2024 13:45:32

Lowest Band Edge / 1RB74 and 1RB0

Highest Band Edge / 1RB74 and 1RB0

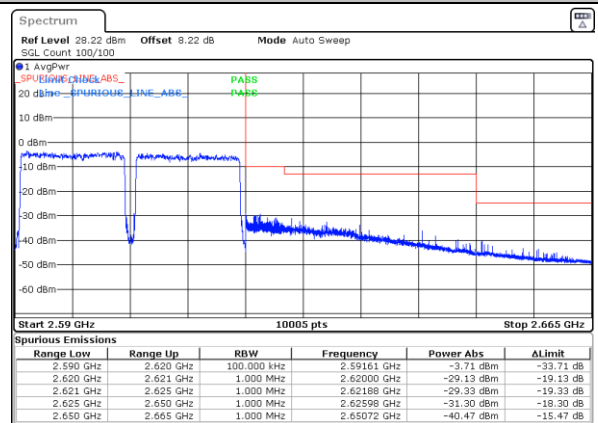
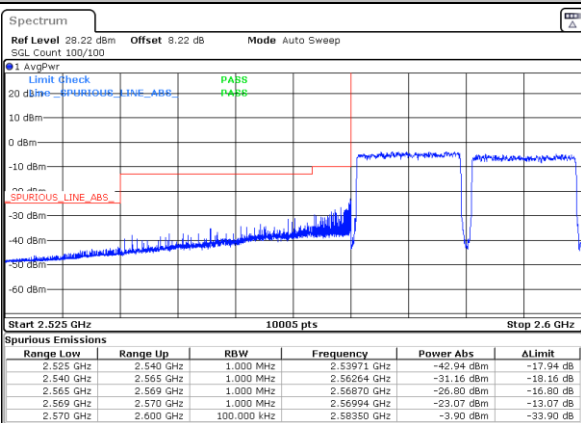


Date: 24, JUL, 2024 13:33:51

Date: 24, JUL, 2024 13:42:04

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24, JUL, 2024 13:26:54

Date: 24, JUL, 2024 13:48:59

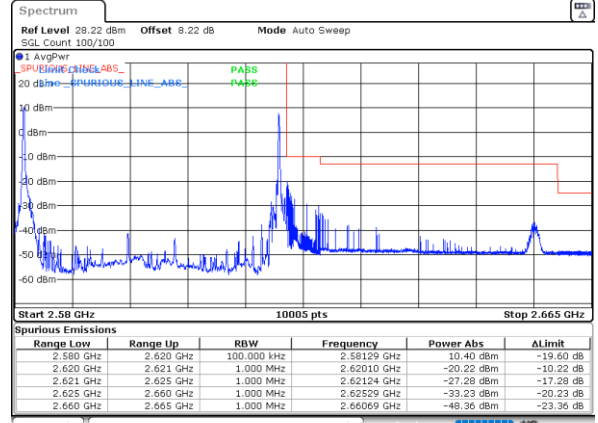
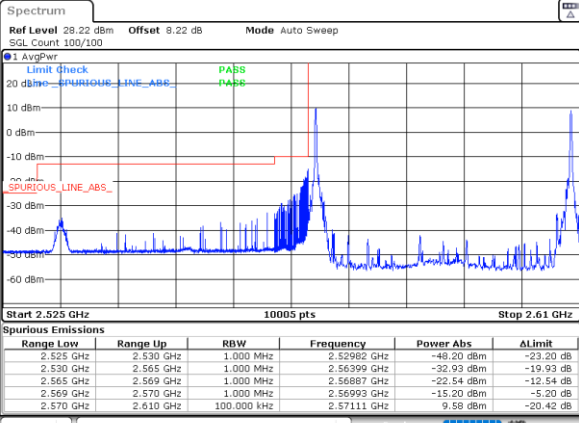


LTE Band 38C / 20MHz+20MHz

256QAM

Lowest Band Edge / 1RB0 and 1RB99

Highest Band Edge / 1RB0 and 1RB99

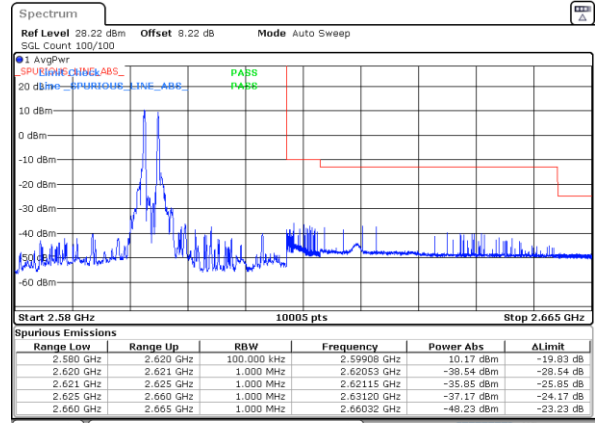
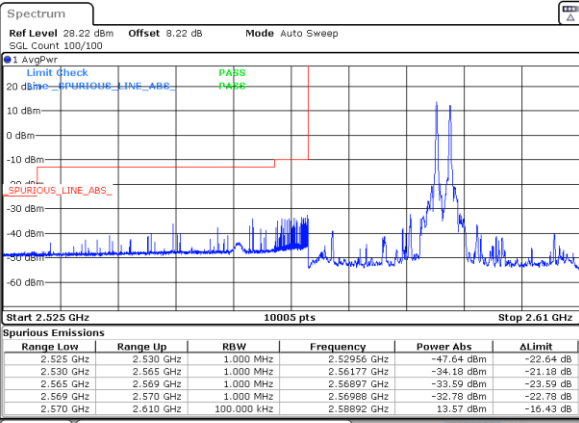


Date: 24.JUL.2024 14:00:19

Date: 24.JUL.2024 14:15:30

Lowest Band Edge / 1RB99 and 1RB0

Highest Band Edge / 1RB99 and 1RB0

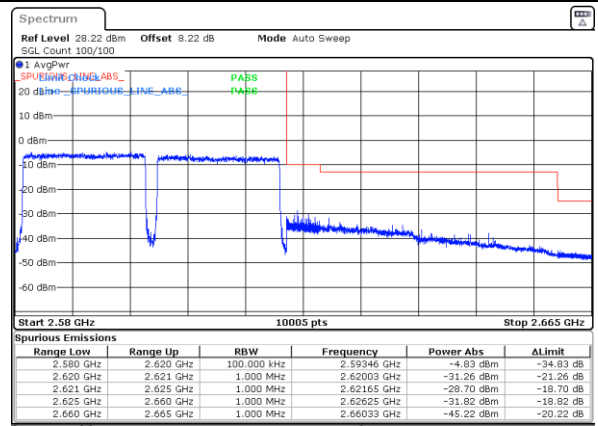
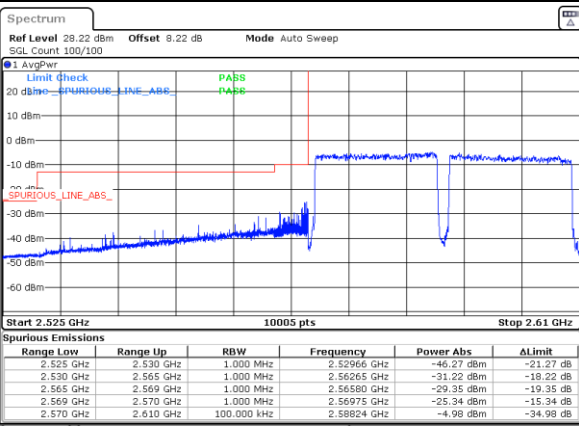


Date: 24.JUL.2024 14:03:47

Date: 24.JUL.2024 14:12:02

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 24.JUL.2024 13:56:50

Date: 24.JUL.2024 14:21:49



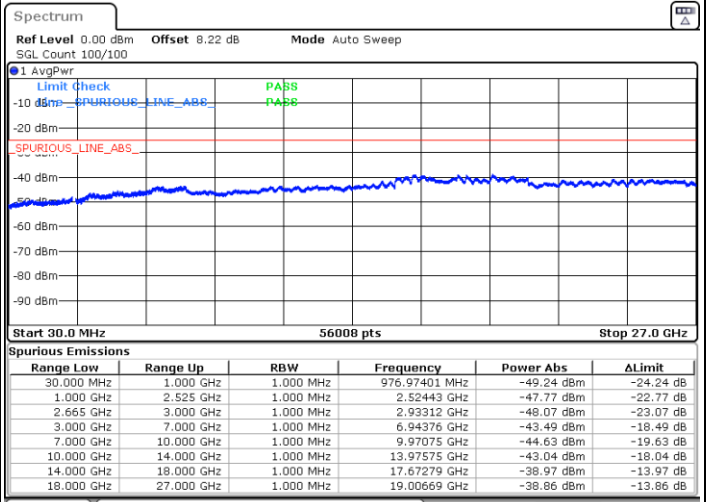
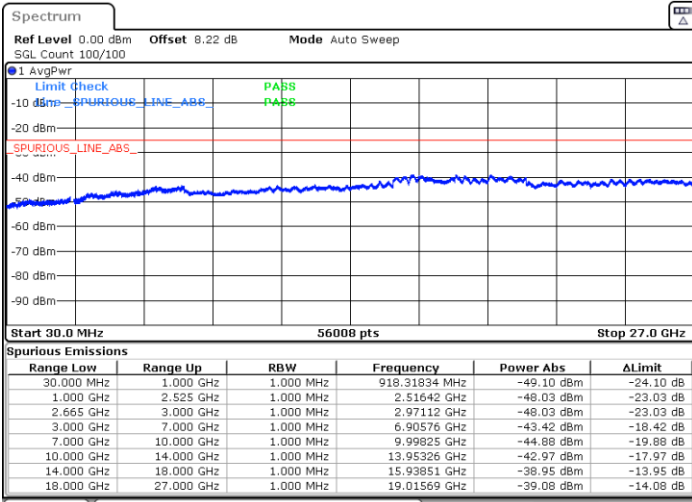
Conducted Spurious Emission

LTE Band 38C / 15MHz+15MHz

QPSK

Lowest Channel / 1RB74 and 1RB0

Middle Channel / 1RB74 and 1RB0

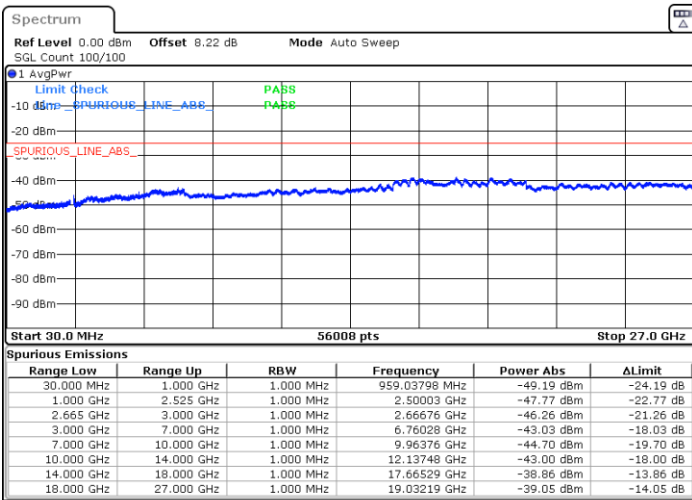


Date: 24.JUL.2024 13:35:22

Date: 24.JUL.2024 13:37:00

Highest Channel / 1RB74 and 1RB0

N/A



Date: 24.JUL.2024 13:38:38

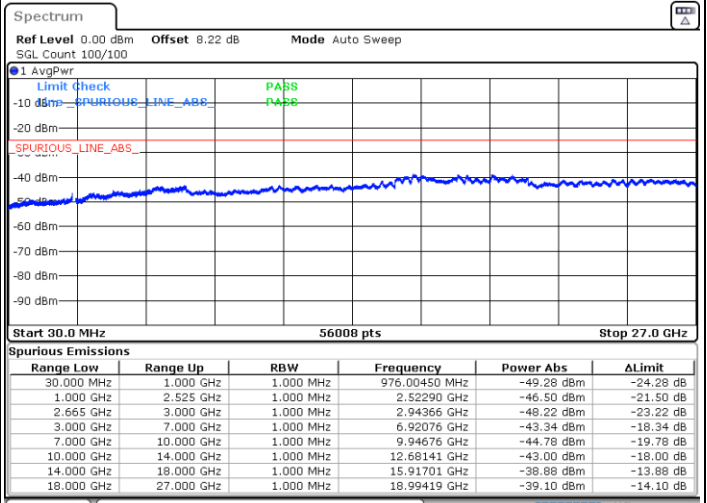
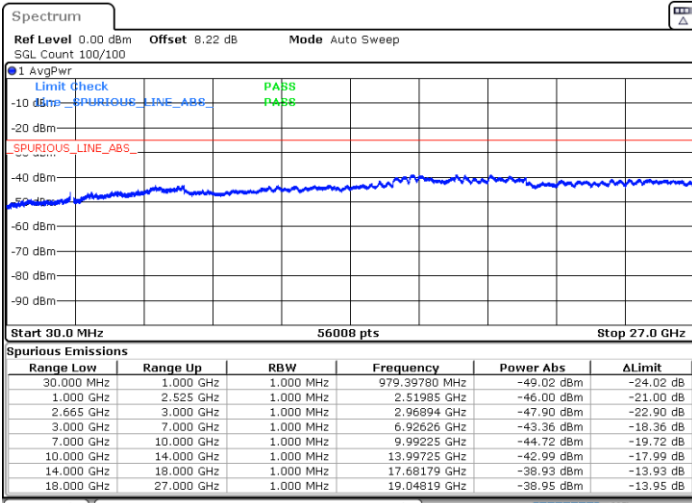


LTE Band 38C / 20MHz+20MHz

QPSK

Lowest Channel / 1RB99 and 1RB0

Middle Channel / 1RB99 and 1RB0

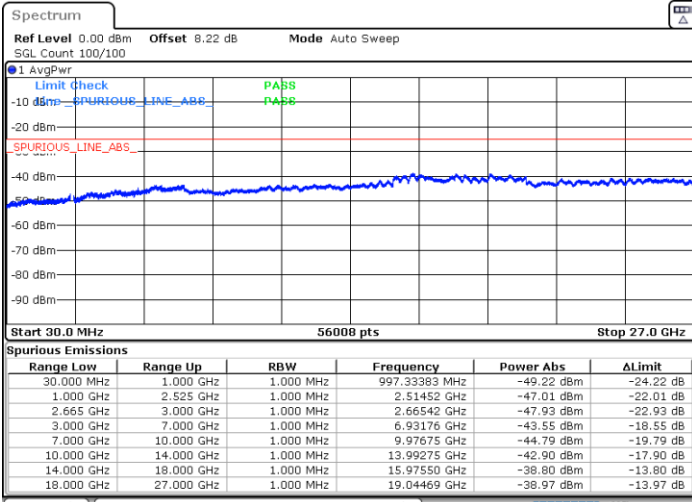


Date: 24.JUL.2024 14:05:19

Date: 24.JUL.2024 14:06:57

Highest Channel / 1RB99 and 1RB0

N/A



Date: 24.JUL.2024 14:08:35



Frequency Stability

Test Conditions		LTE Band 38C (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 40MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0056	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0064	
-30	Normal Voltage	0.0062	
20	Maximum Voltage	0.0073	
20	Normal Voltage	0.0032	
20	Battery End Point	0.0024	

Note:

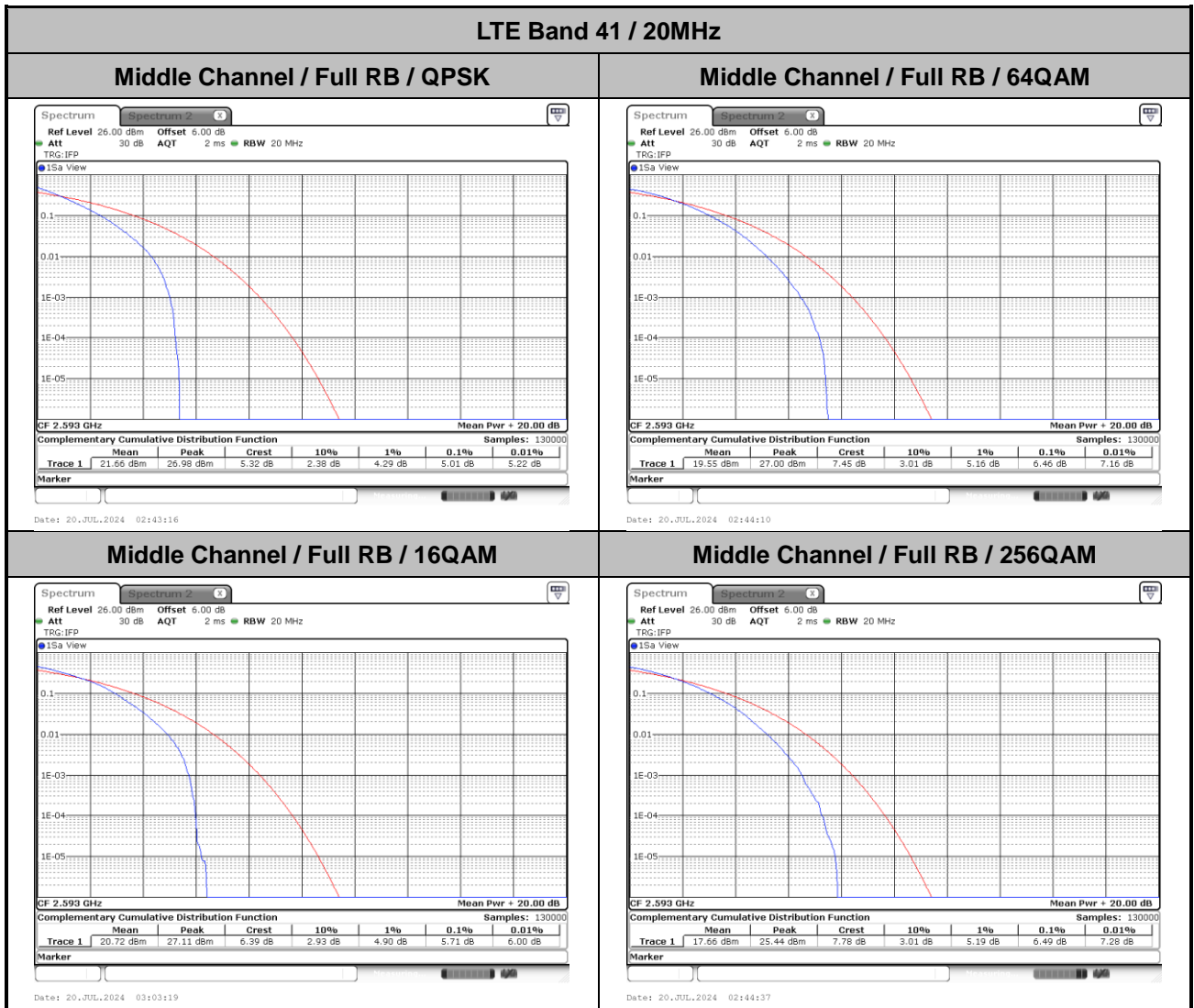
1. Normal Voltage =3.91 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 41 (Main PA)

Peak-to-Average Ratio

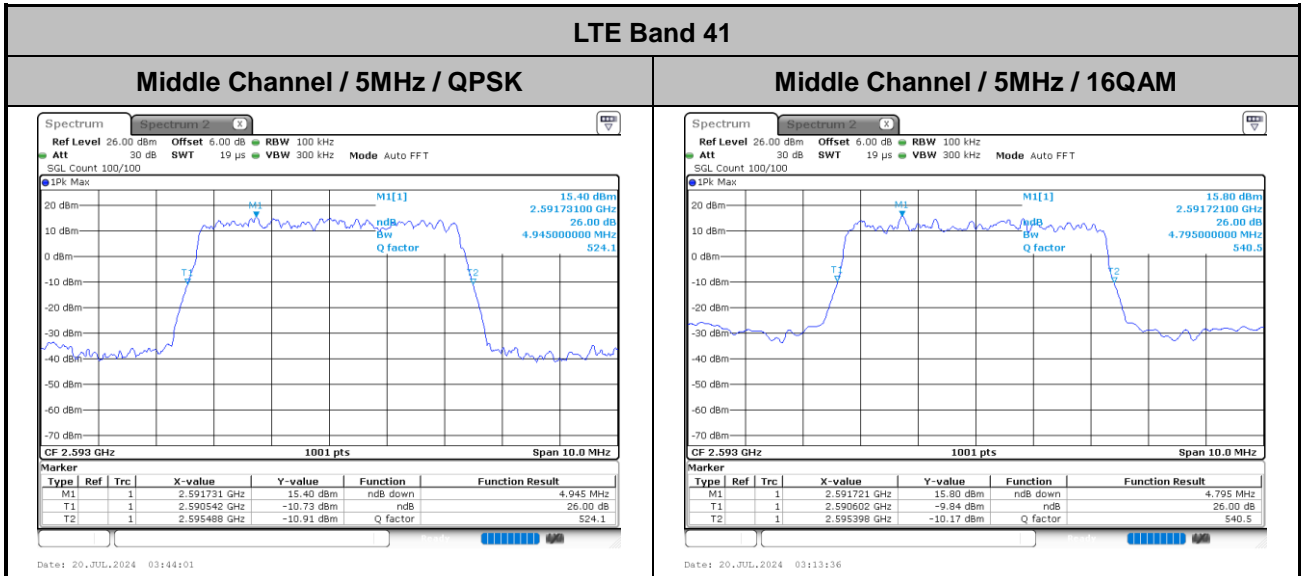
Mode	LTE Band 41 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.01	5.71	6.46	6.49	PASS





26dB Bandwidth

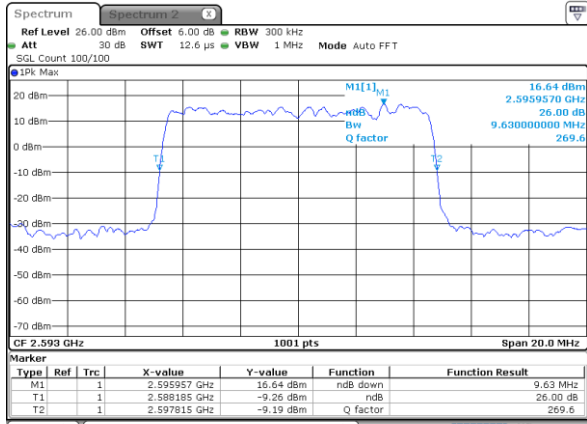
Mode	LTE Band 41 : 26dB BW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.95	4.80
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.63	9.79
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	14.39	14.39
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	19.02	19.10





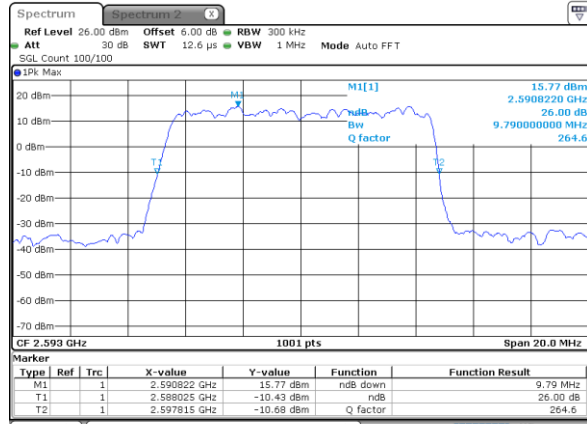
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 20_JUL_2024 03:45:29

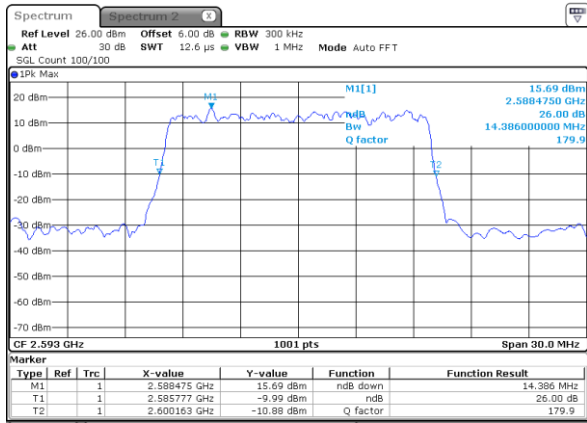
Middle Channel / 10MHz / 16QAM



Date: 20_JUL_2024 03:22:06

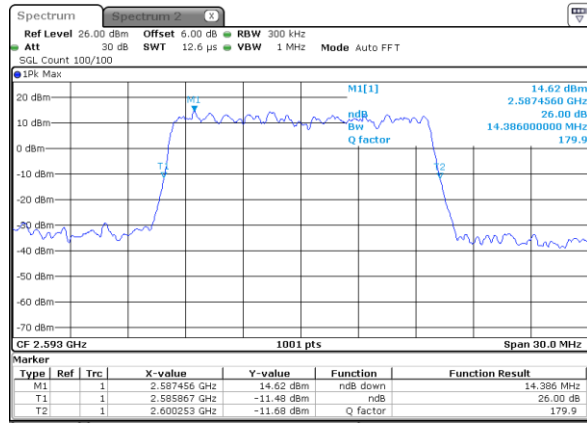
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 20_JUL_2024 03:25:56

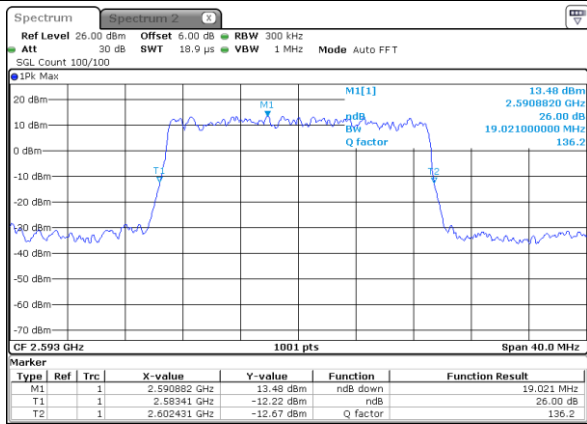
Middle Channel / 15MHz / 16QAM



Date: 20_JUL_2024 03:26:50

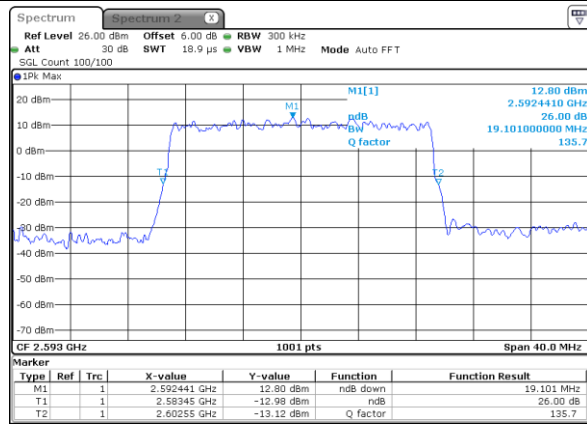
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 20_JUL_2024 03:30:40

Middle Channel / 20MHz / 16QAM

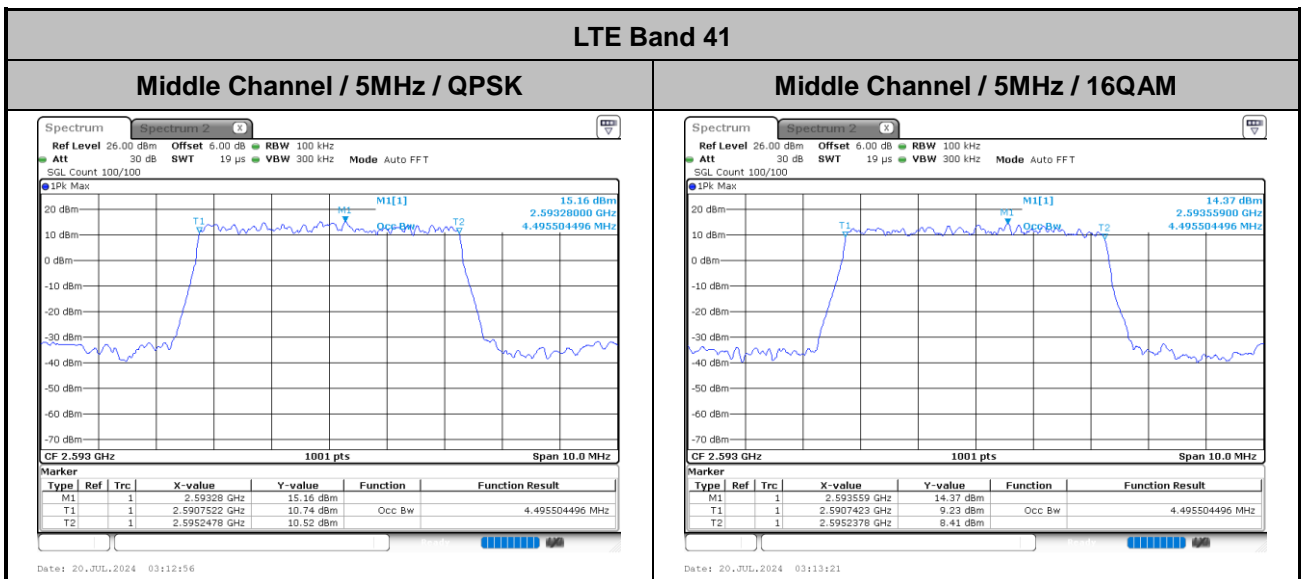


Date: 20_JUL_2024 03:31:34



Occupied Bandwidth

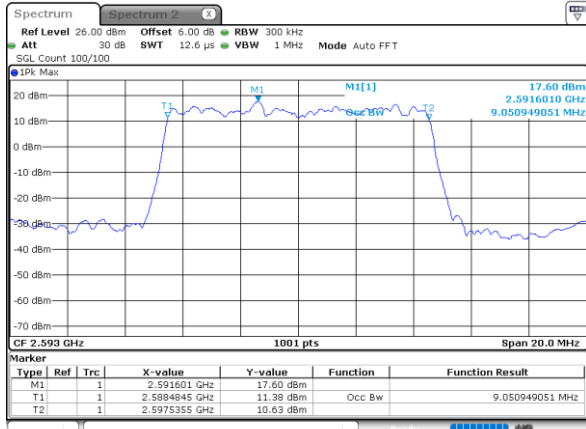
Mode	LTE Band 41 : 99%OBW(MHz)	
BW	5MHz	
Mod.	QPSK	16QAM
Middle CH	4.50	4.50
BW	10MHz	
Mod.	QPSK	16QAM
Middle CH	9.05	9.09
BW	15MHz	
Mod.	QPSK	16QAM
Middle CH	13.40	13.46
BW	20MHz	
Mod.	QPSK	16QAM
Middle CH	17.90	17.94





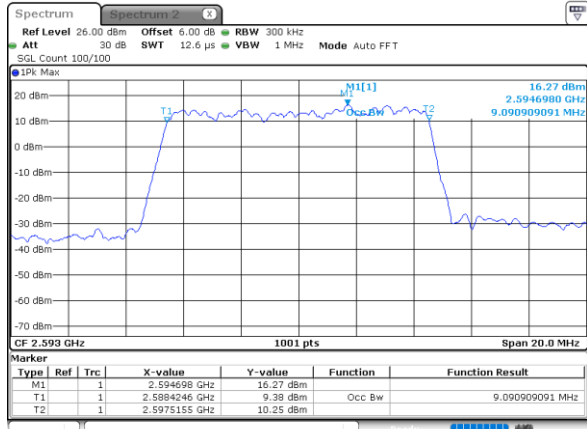
LTE Band 41

Middle Channel / 10MHz / QPSK



Date: 20_JUL_2024 03:21:26

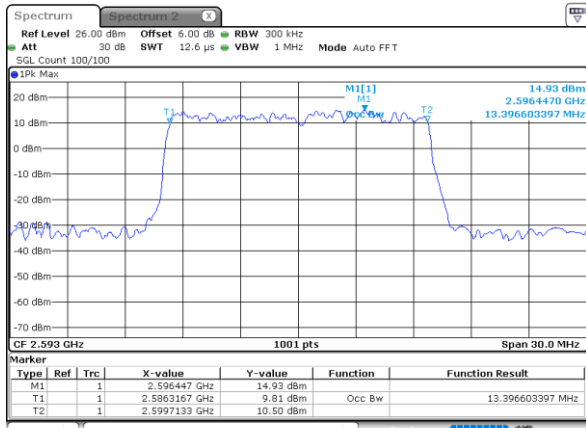
Middle Channel / 10MHz / 16QAM



Date: 20_JUL_2024 03:21:52

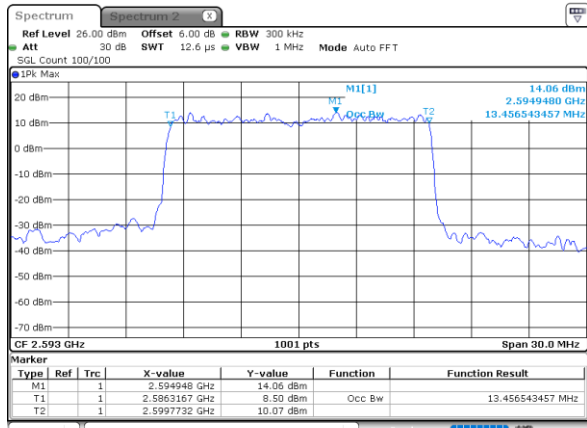
LTE Band 41

Middle Channel / 15MHz / QPSK



Date: 20_JUL_2024 03:26:10

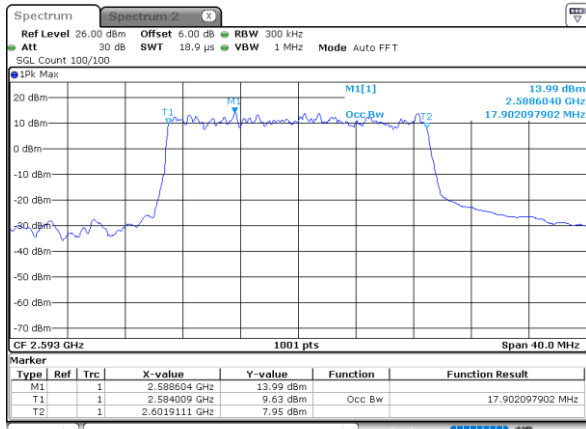
Middle Channel / 15MHz / 16QAM



Date: 20_JUL_2024 03:26:36

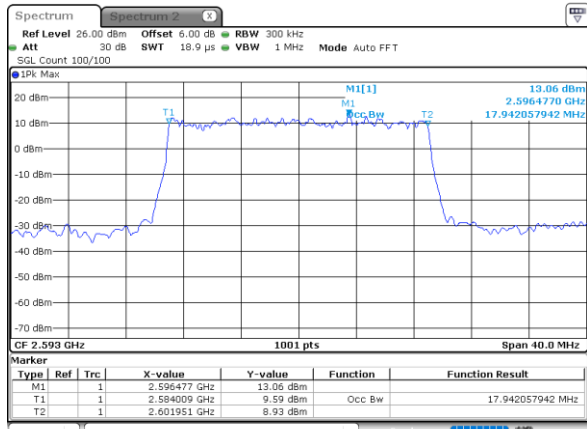
LTE Band 41

Middle Channel / 20MHz / QPSK



Date: 20_JUL_2024 03:30:54

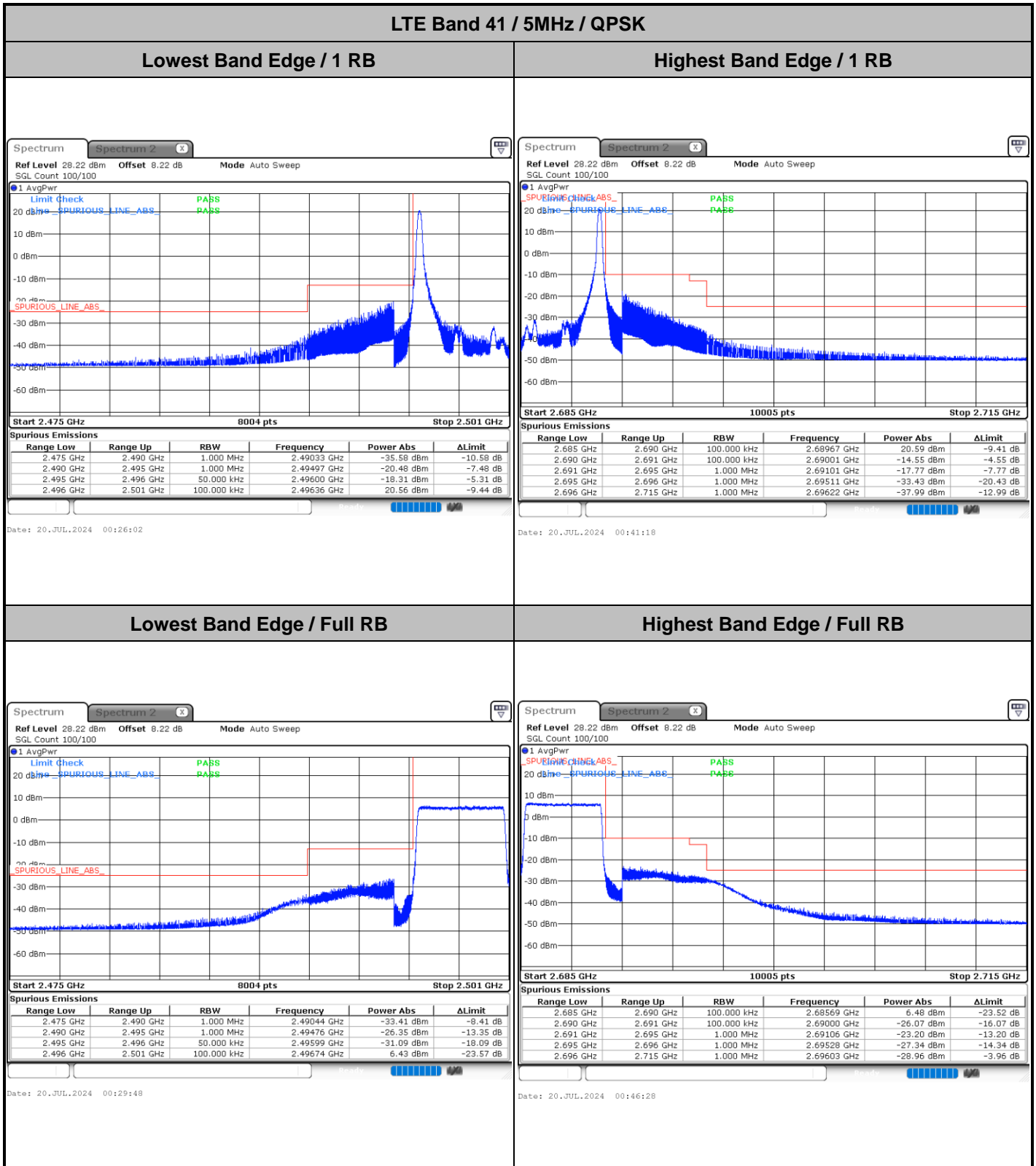
Middle Channel / 20MHz / 16QAM



Date: 20_JUL_2024 03:31:20



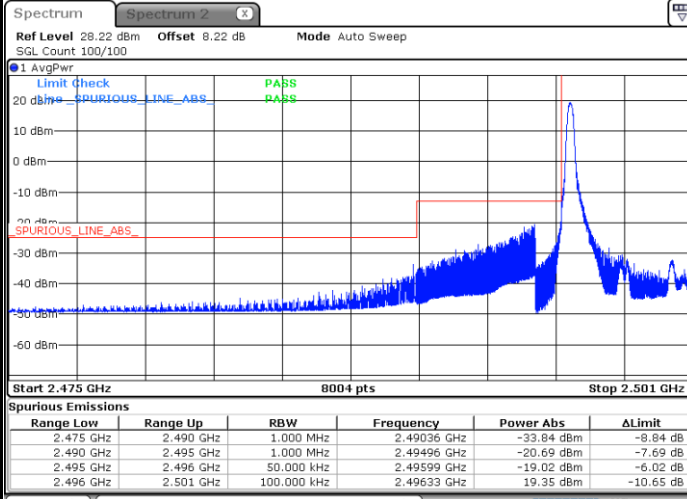
Conducted Band Edge





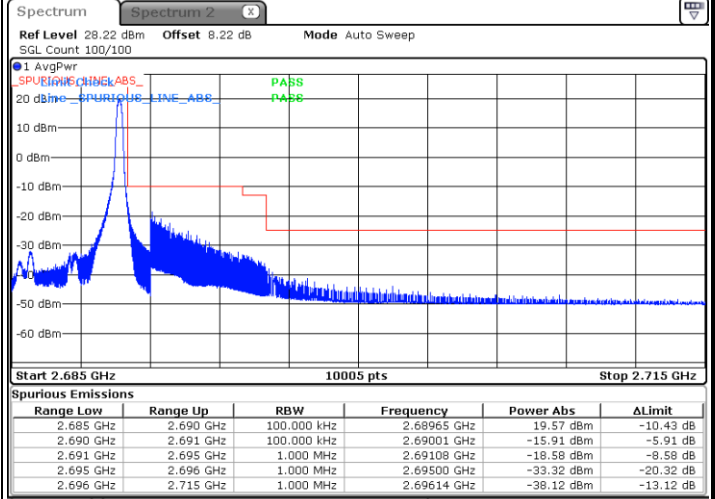
LTE Band 41 / 5MHz / 16QAM

Lowest Band Edge / 1RB



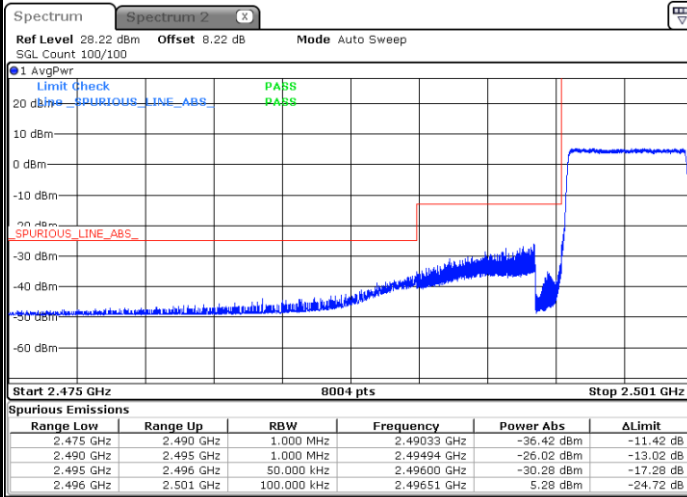
Date: 20.JUL.2024 00:26:58

Highest Band Edge / 1 RB



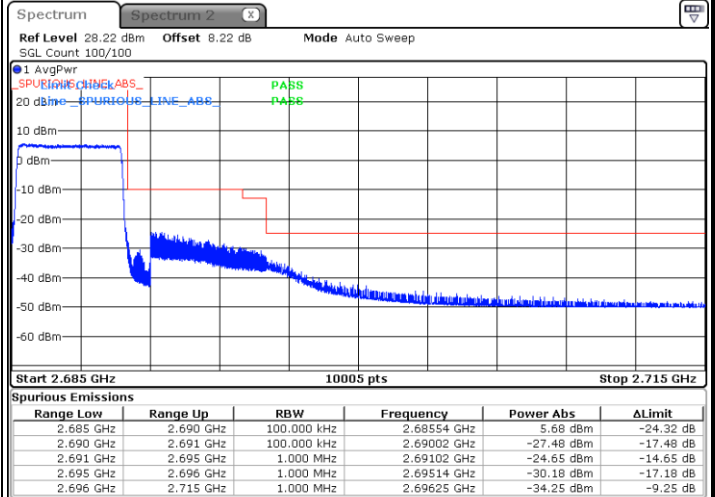
Date: 20.JUL.2024 00:42:40

Lowest Band Edge / Full RB



Date: 20.JUL.2024 00:30:44

Highest Band Edge / Full RB

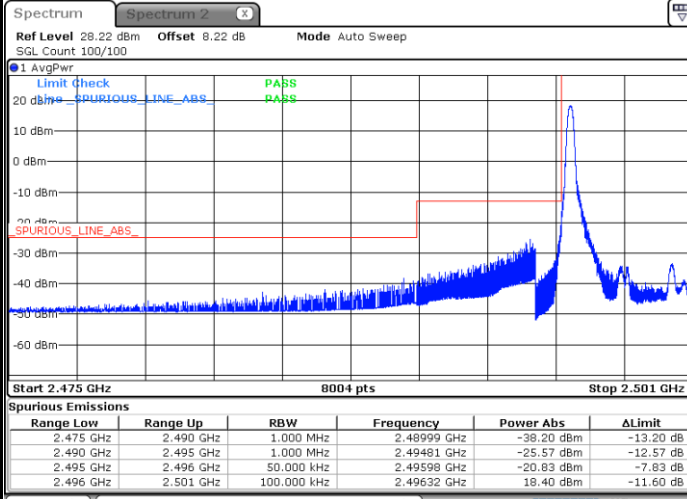


Date: 20.JUL.2024 00:47:44



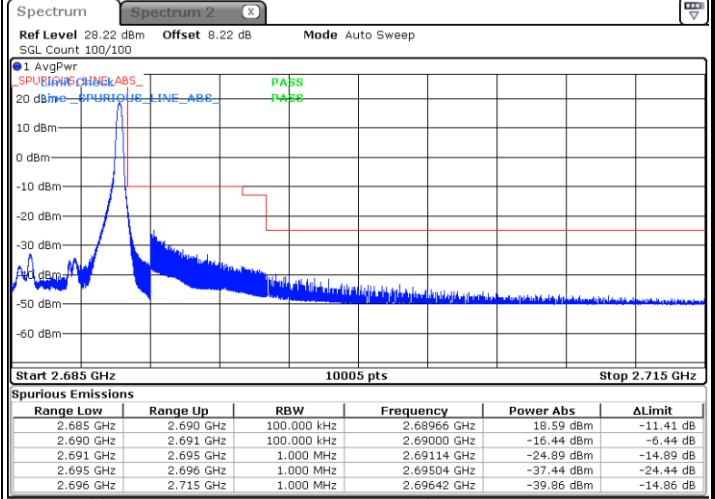
LTE Band 41 / 5MHz / 64QAM

Lowest Band Edge / 1RB



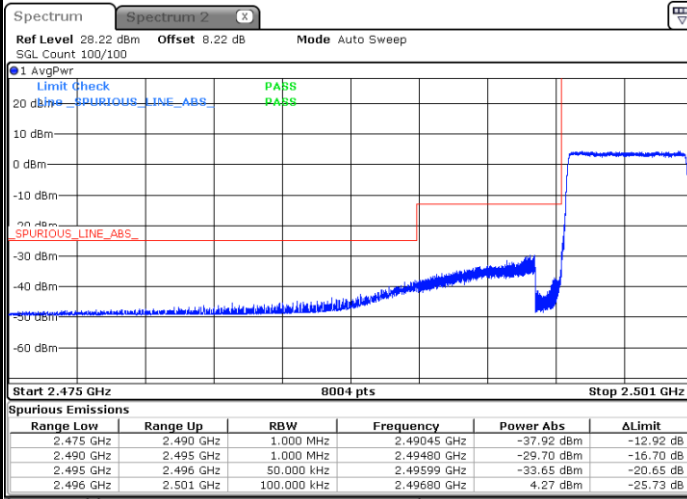
Date: 20.JUL.2024 00:27:54

Highest Band Edge / 1 RB



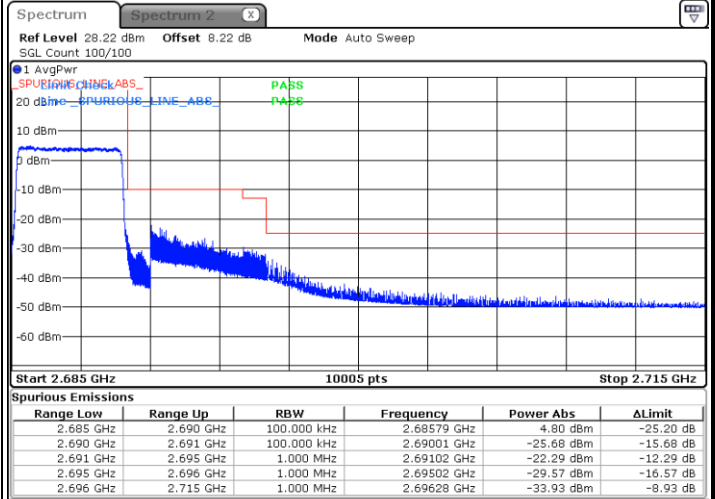
Date: 20.JUL.2024 00:43:56

Lowest Band Edge / Full RB



Date: 20.JUL.2024 00:31:40

Highest Band Edge / Full RB



Date: 20.JUL.2024 00:48:59