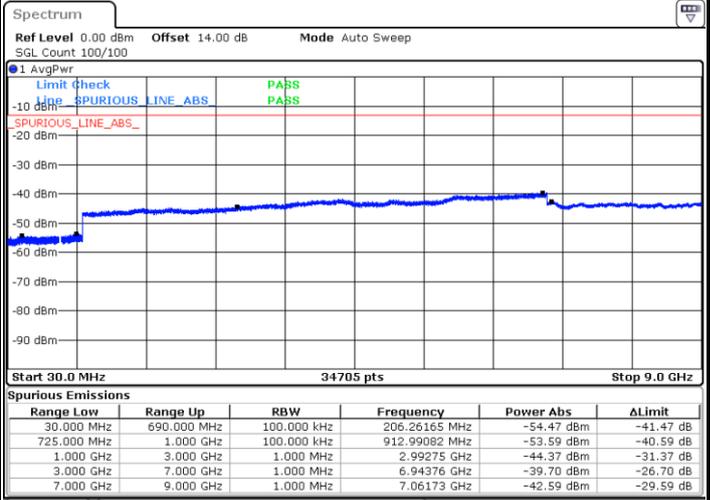




LTE Band 12 / 3MHz

Lowest Channel / QPSK

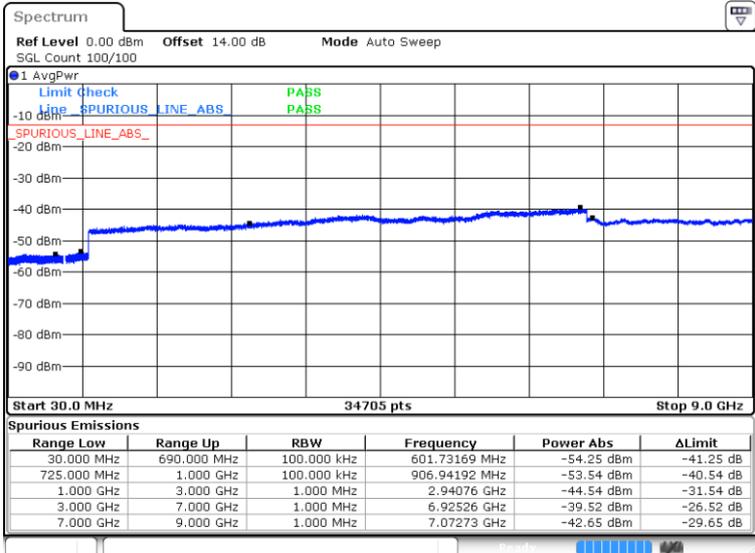
Middle Channel / QPSK



Date: 9 AUG.2023 16:11:05

Date: 9 AUG.2023 16:11:52

Highest Channel / QPSK



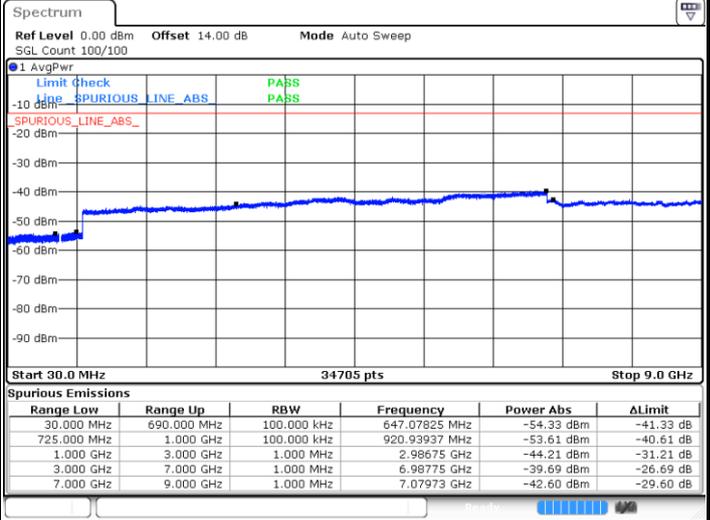
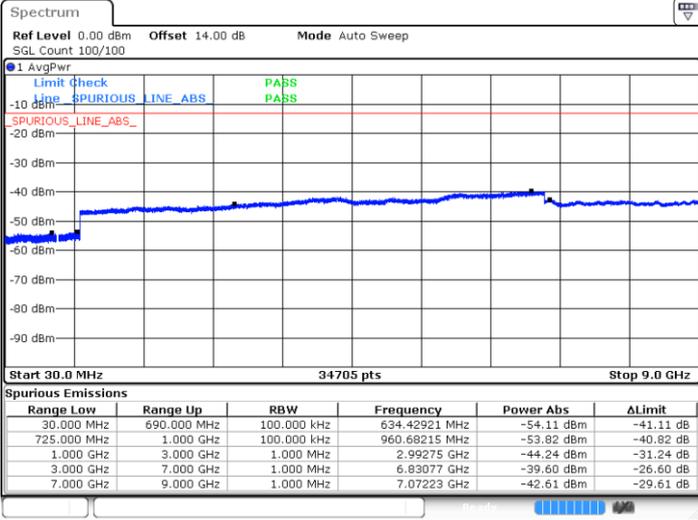
Date: 9.AUG.2023 16:19:01



LTE Band 12 / 5MHz

Lowest Channel / QPSK

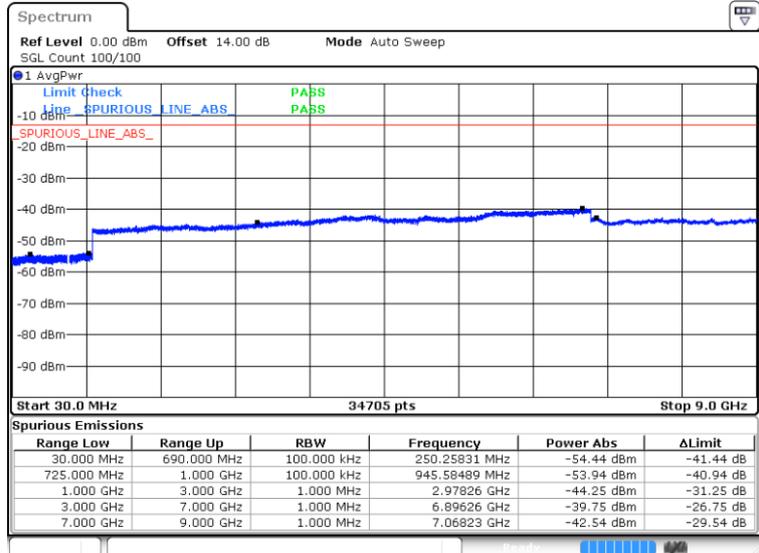
Middle Channel / QPSK



Date: 9 AUG.2023 16:27:45

Date: 9 AUG.2023 16:28:33

Highest Channel / QPSK



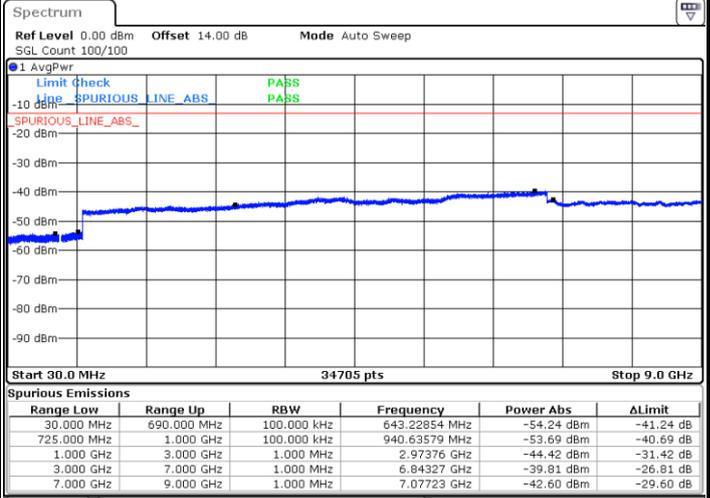
Date: 9 AUG.2023 16:35:41



LTE Band 12 / 10MHz

Lowest Channel / QPSK

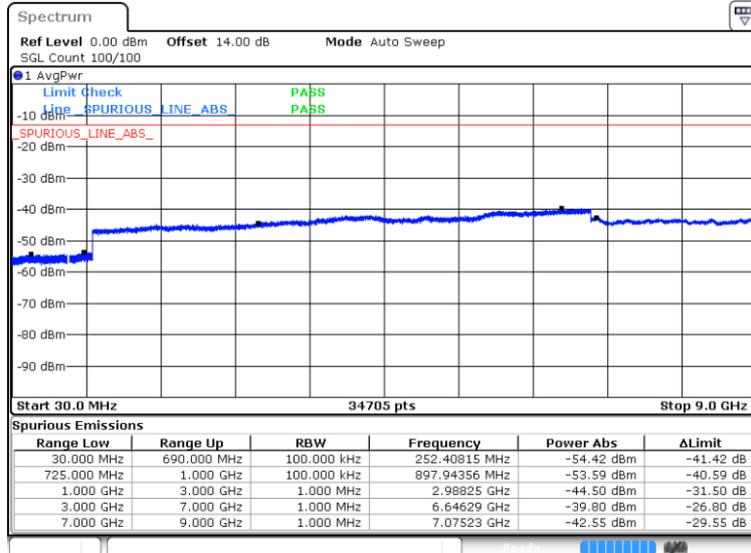
Middle Channel / QPSK



Date: 9 AUG.2023 16:43:01

Date: 9 AUG.2023 16:43:49

Highest Channel / QPSK



Date: 9 AUG.2023 16:50:59



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	0.0124	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0033	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0001	
-20	Normal Voltage	0.0114	
-30	Normal Voltage	0.0096	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0101	

Note:

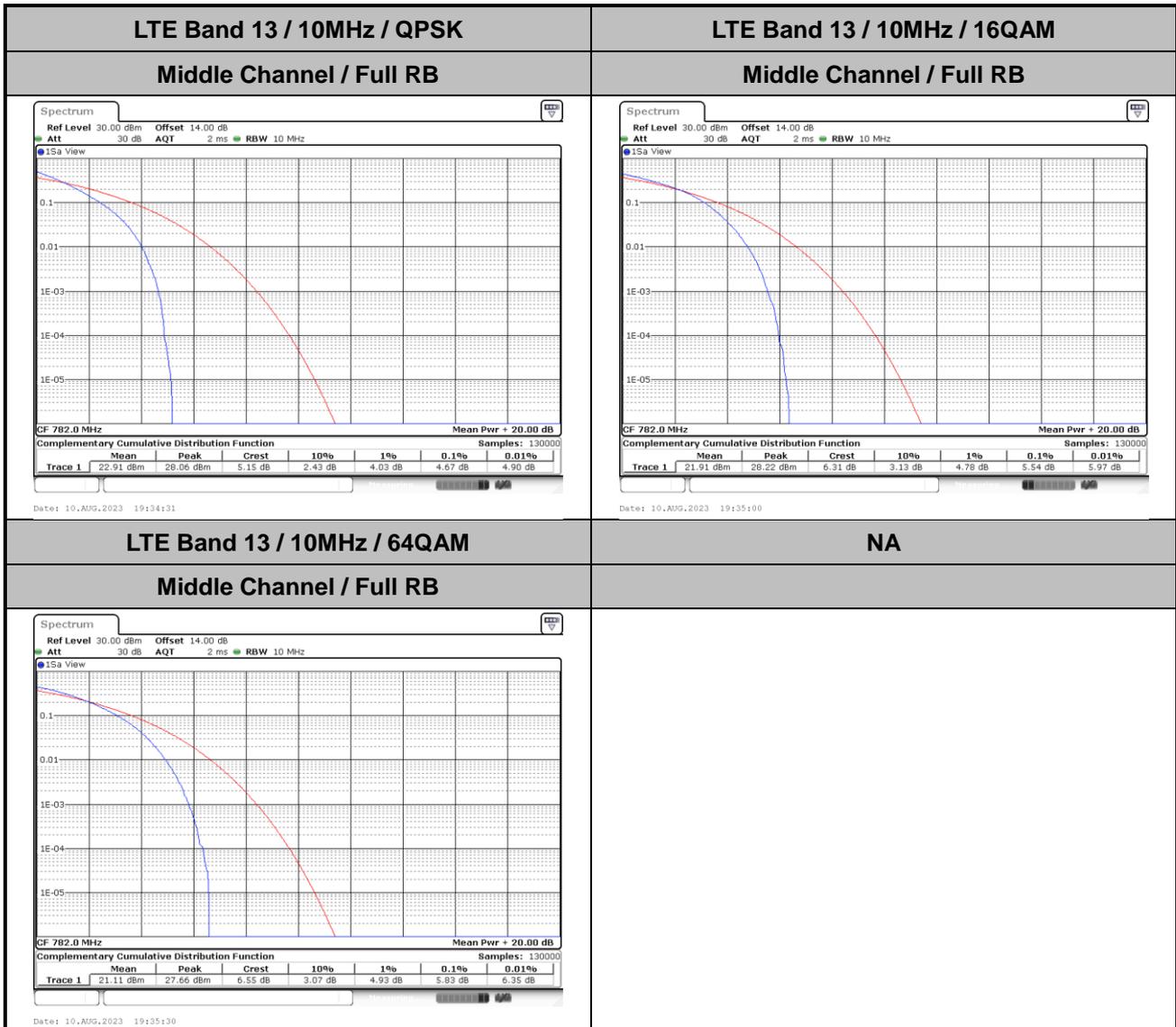
1. Normal Voltage = 3.88 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

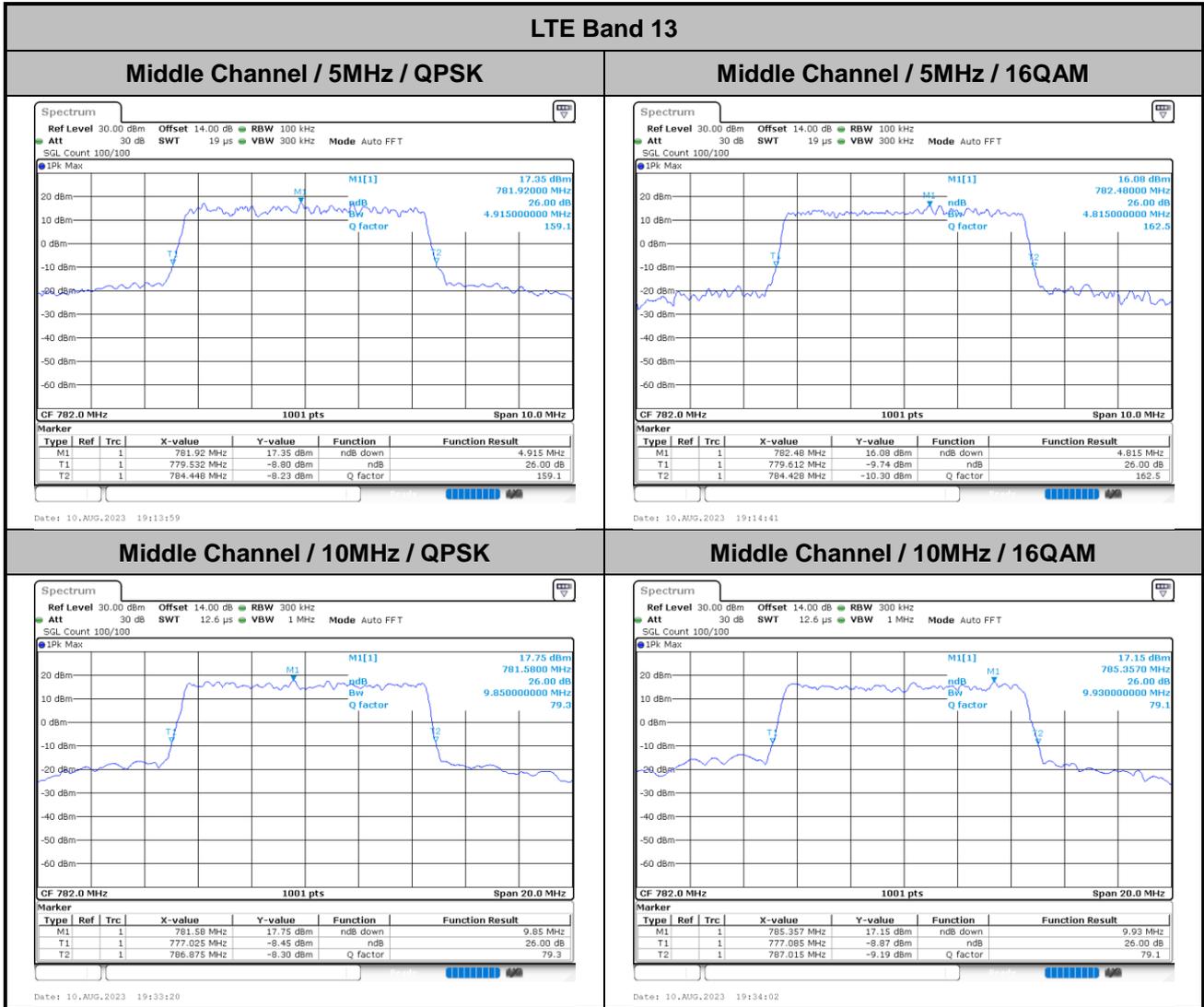
Mode	LTE Band 13 / 10MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.67	5.54	5.83	PASS





26dB Bandwidth

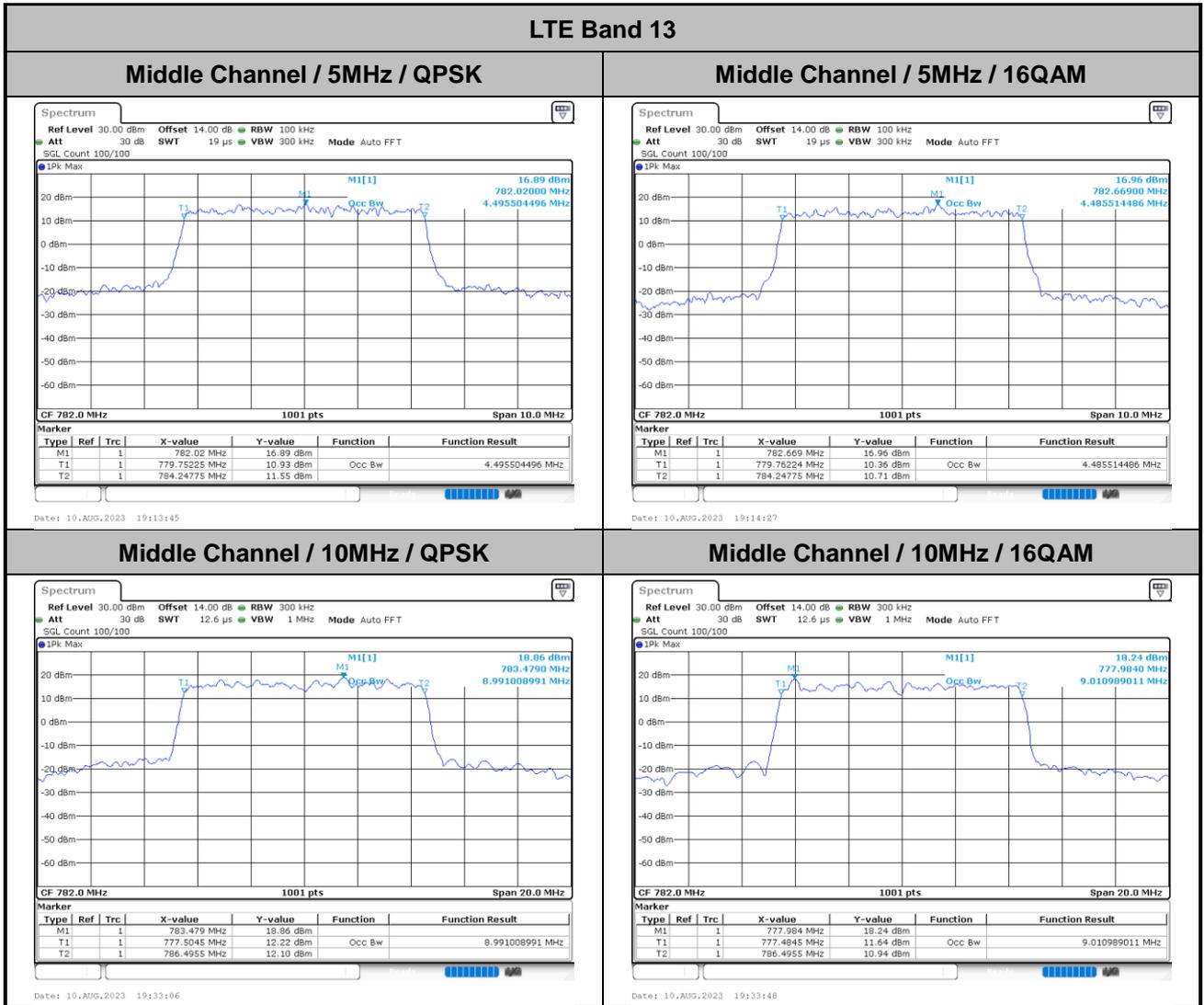
Mode	LTE Band 13 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.92	4.82	9.85	9.93	-	-	-	-





Occupied Bandwidth

Mode	LTE Band 13 : 99%OBW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	-	-	-	-	4.50	4.49	8.99	9.01	-	-	-	-



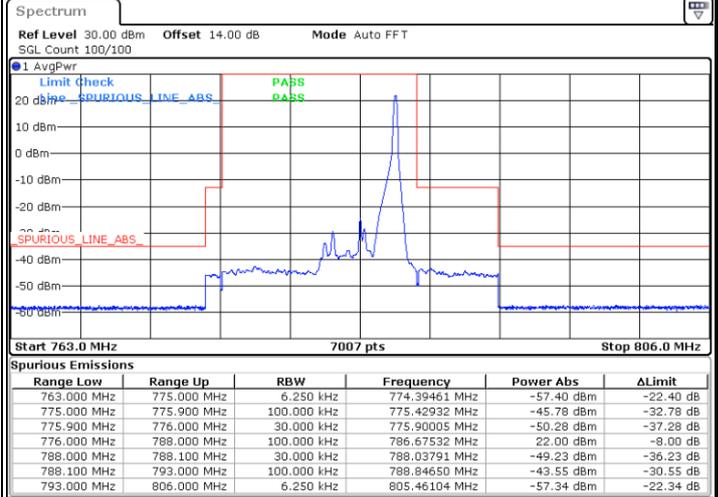
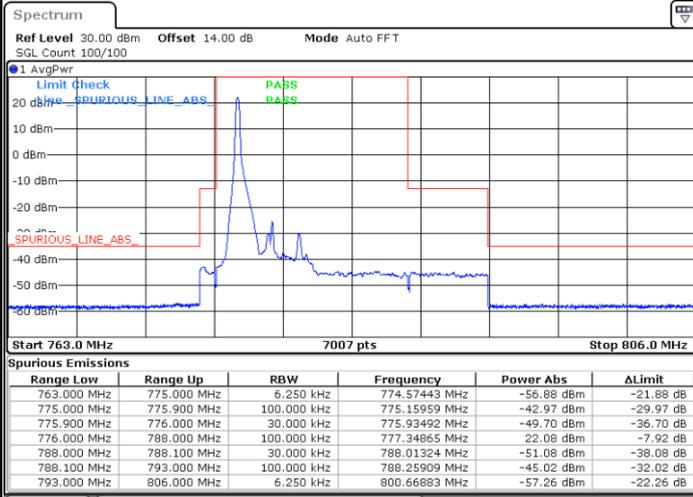


Conducted Band Edge

LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

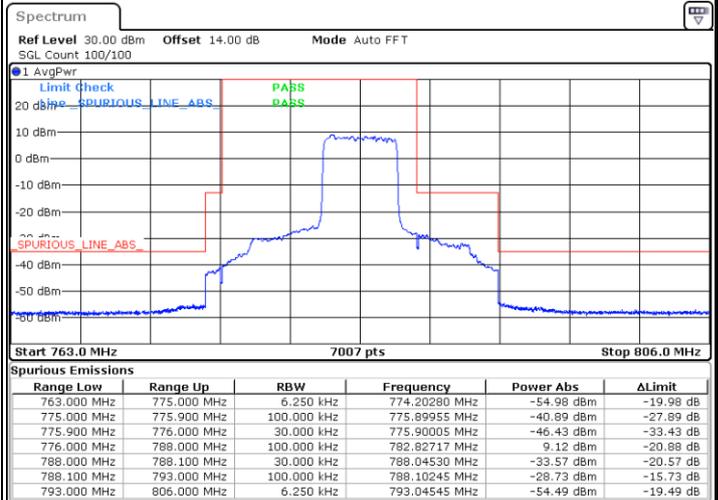
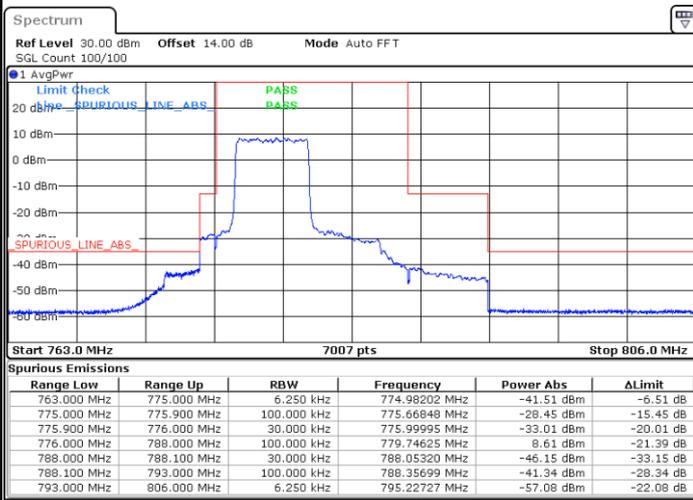


Date: 10.AUG.2023 19:06:34

Date: 10.AUG.2023 19:15:33

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 10.AUG.2023 19:09:14

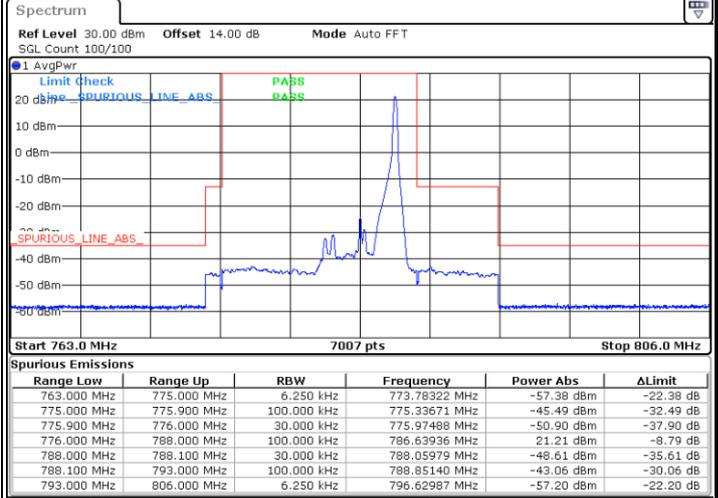
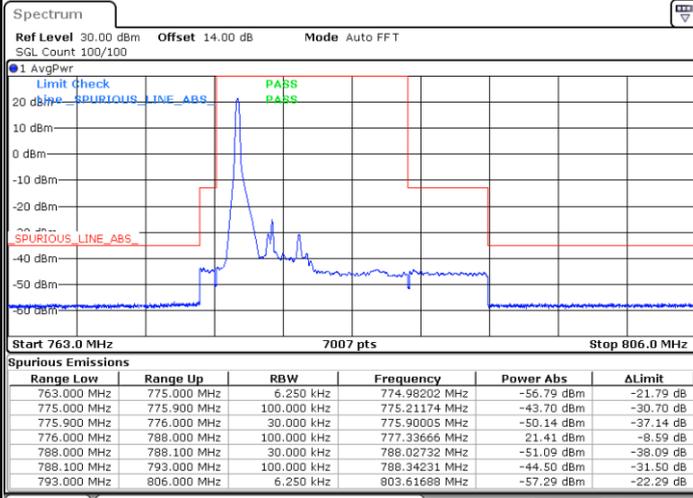
Date: 10.AUG.2023 19:18:14



LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

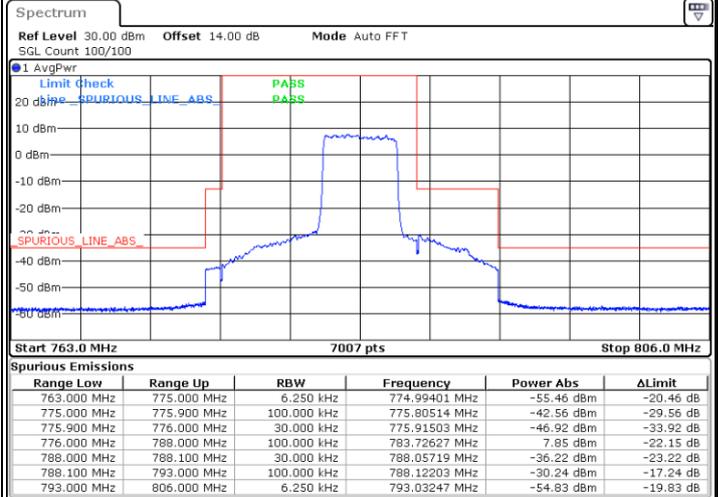
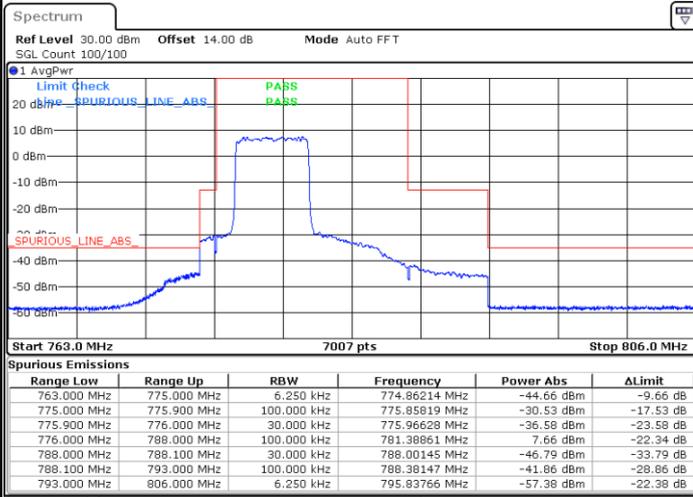


Date: 10.AUG.2023 19:07:27

Date: 10.AUG.2023 19:16:27

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 10.AUG.2023 19:10:08

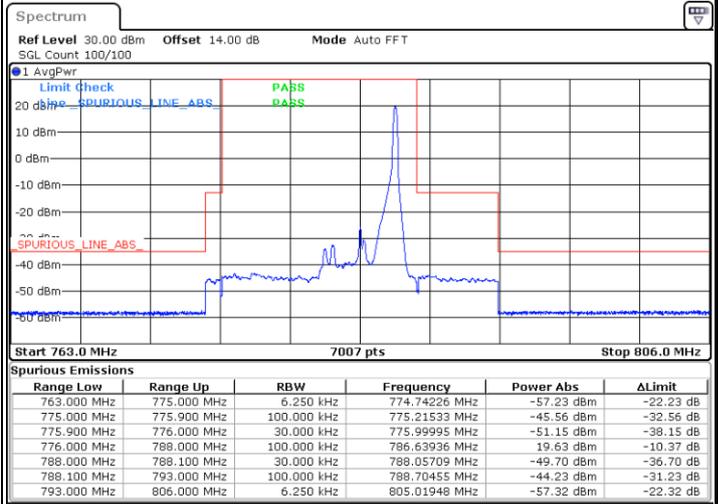
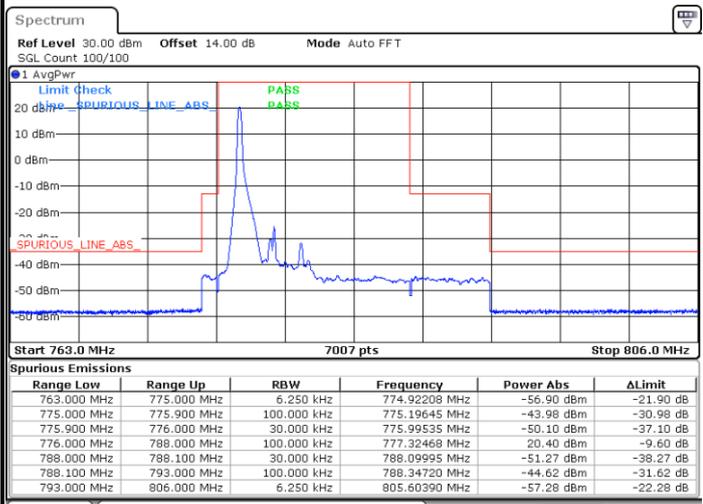
Date: 10.AUG.2023 19:19:07



LTE Band 13 / 5MHz / 64QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

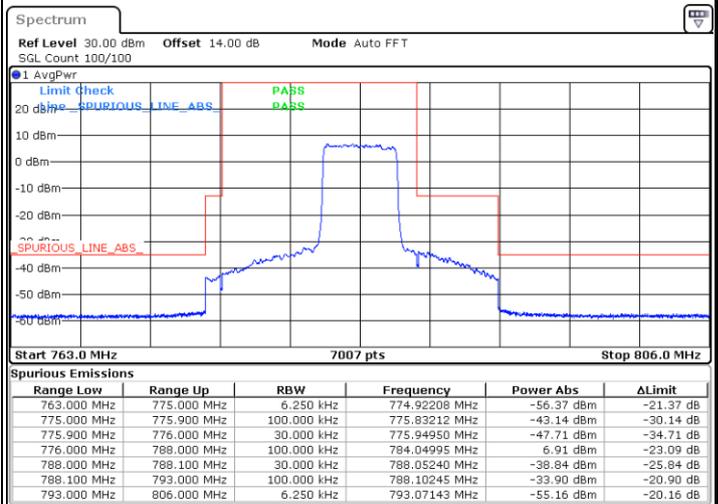
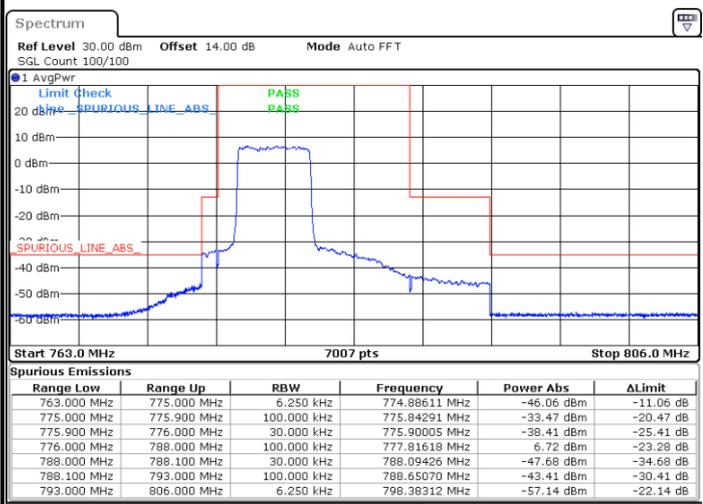


Date: 10.AUG.2023 19:08:21

Date: 10.AUG.2023 19:17:20

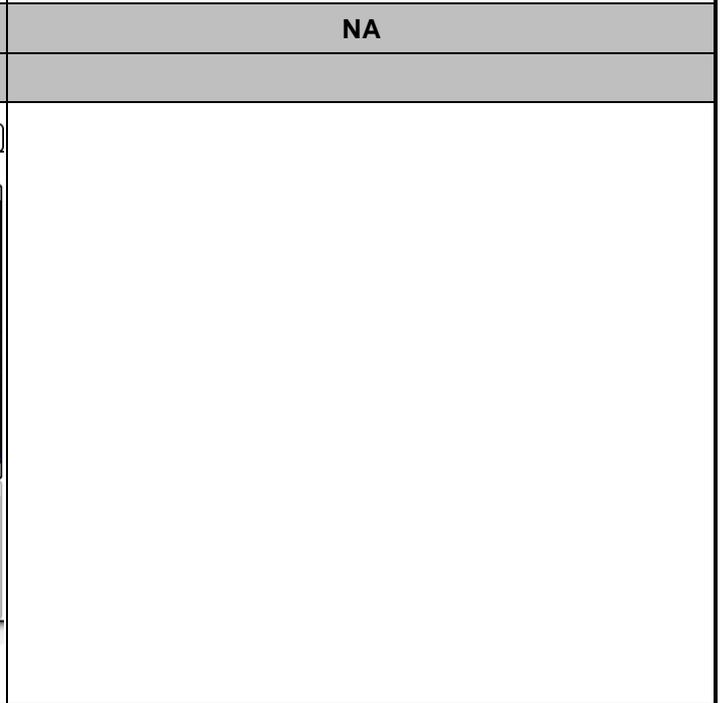
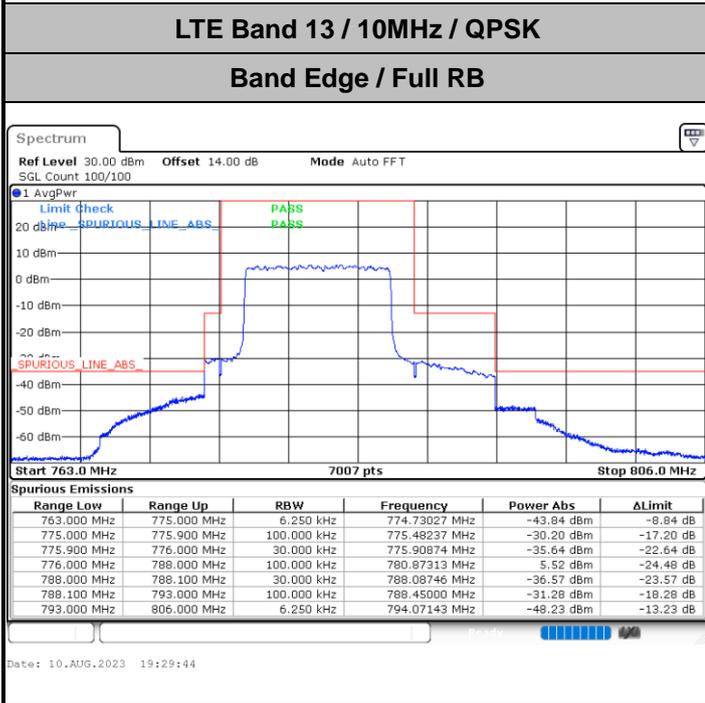
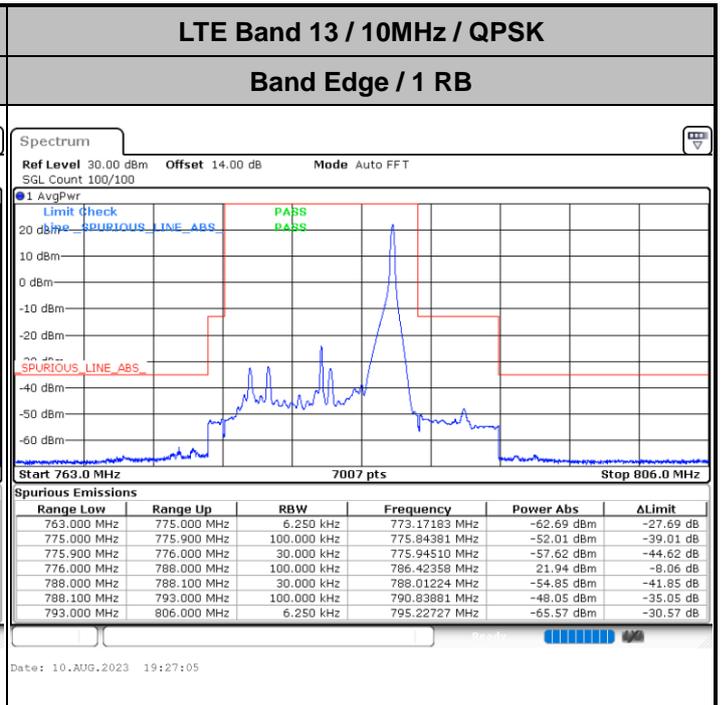
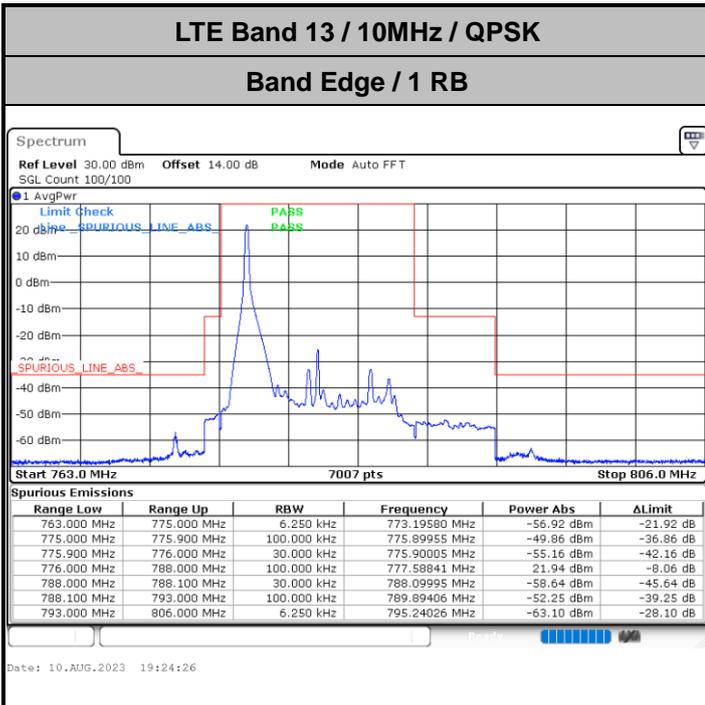
Lowest Band Edge / Full RB

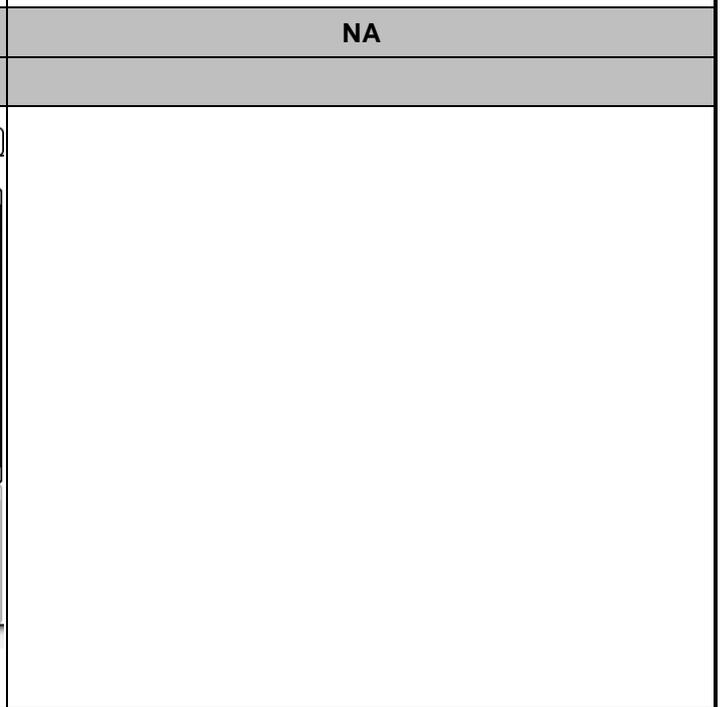
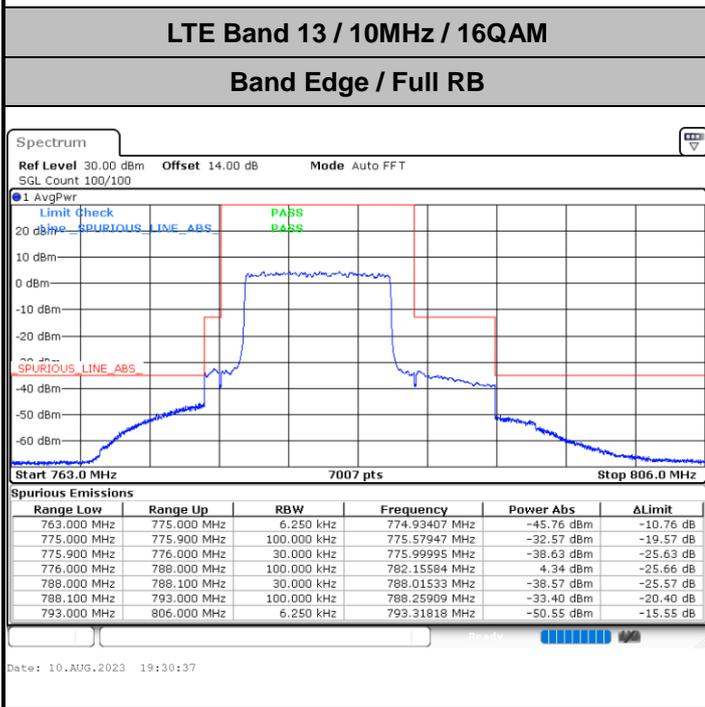
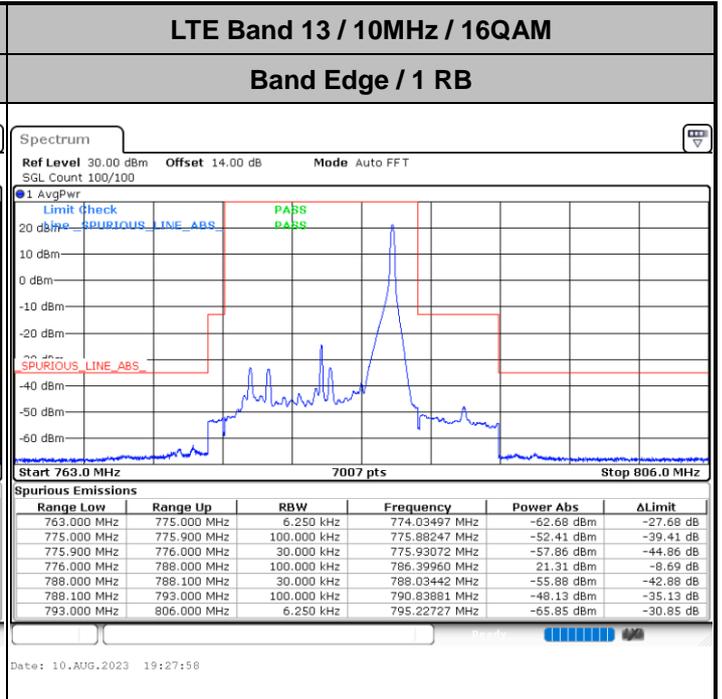
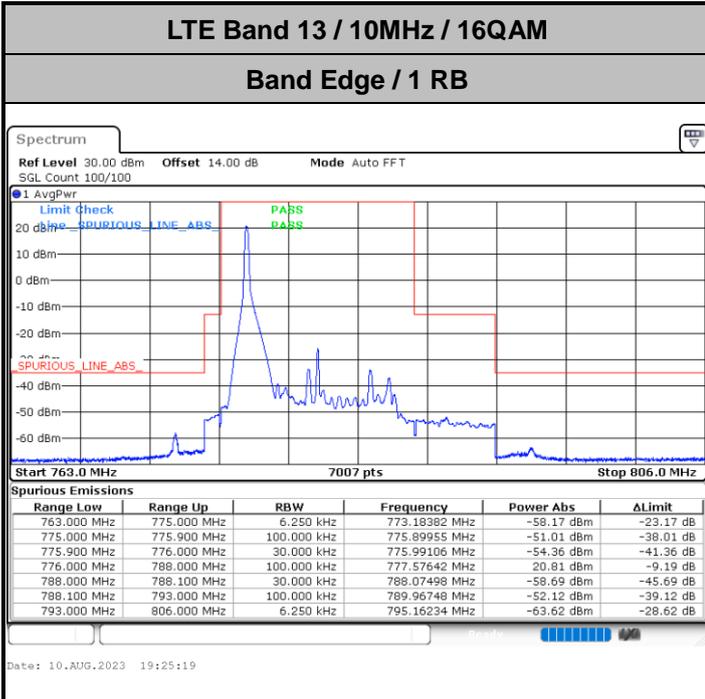
Highest Band Edge / Full RB

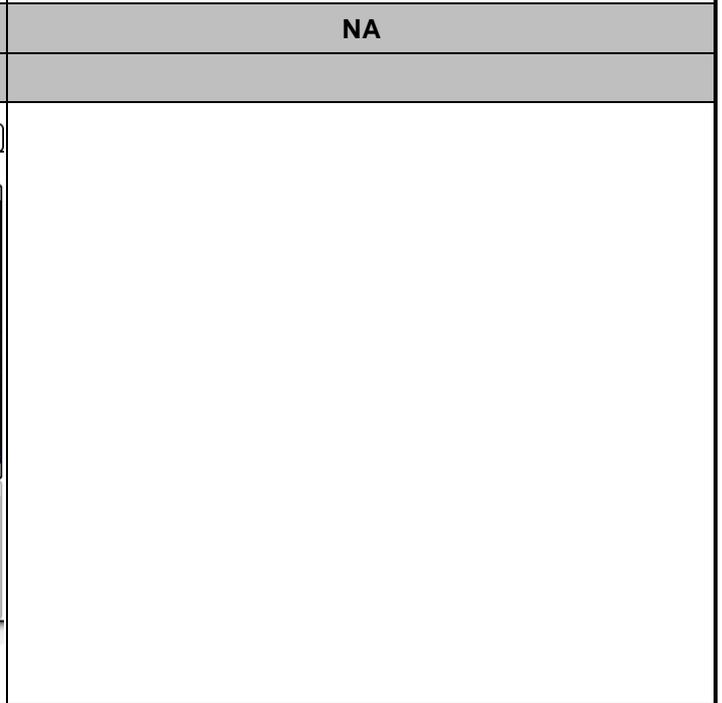
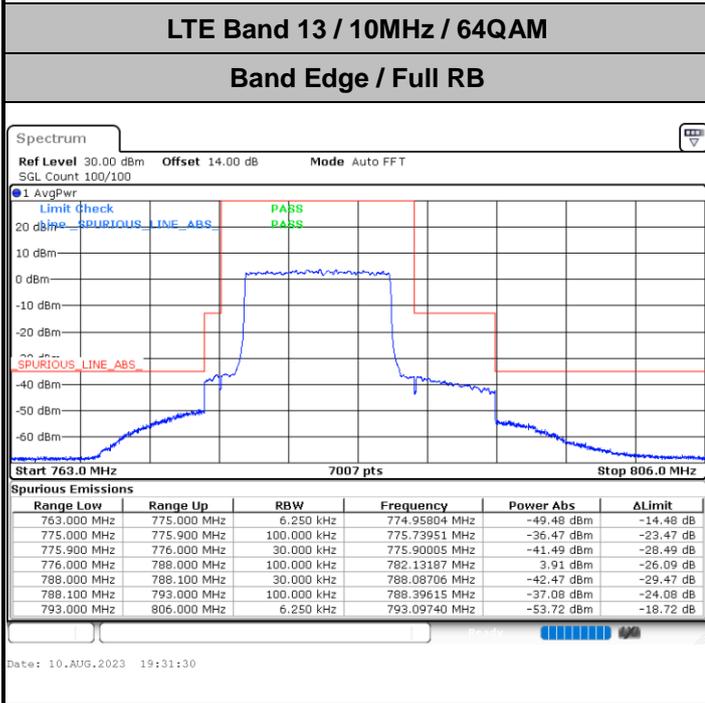
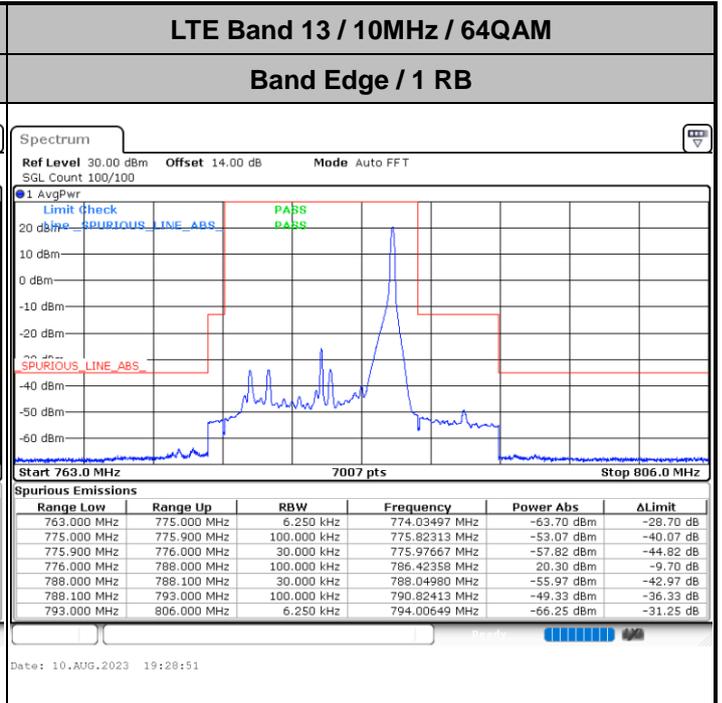
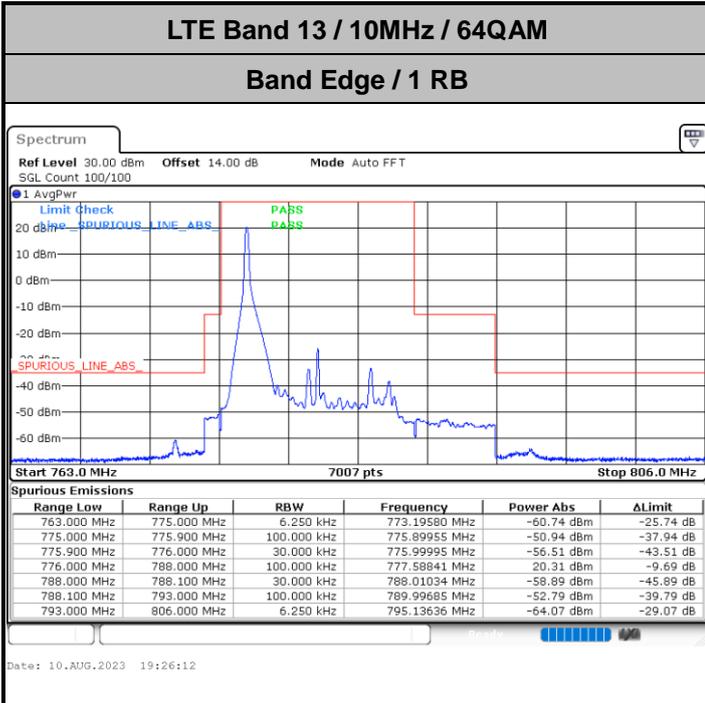


Date: 10.AUG.2023 19:11:02

Date: 10.AUG.2023 19:20:01

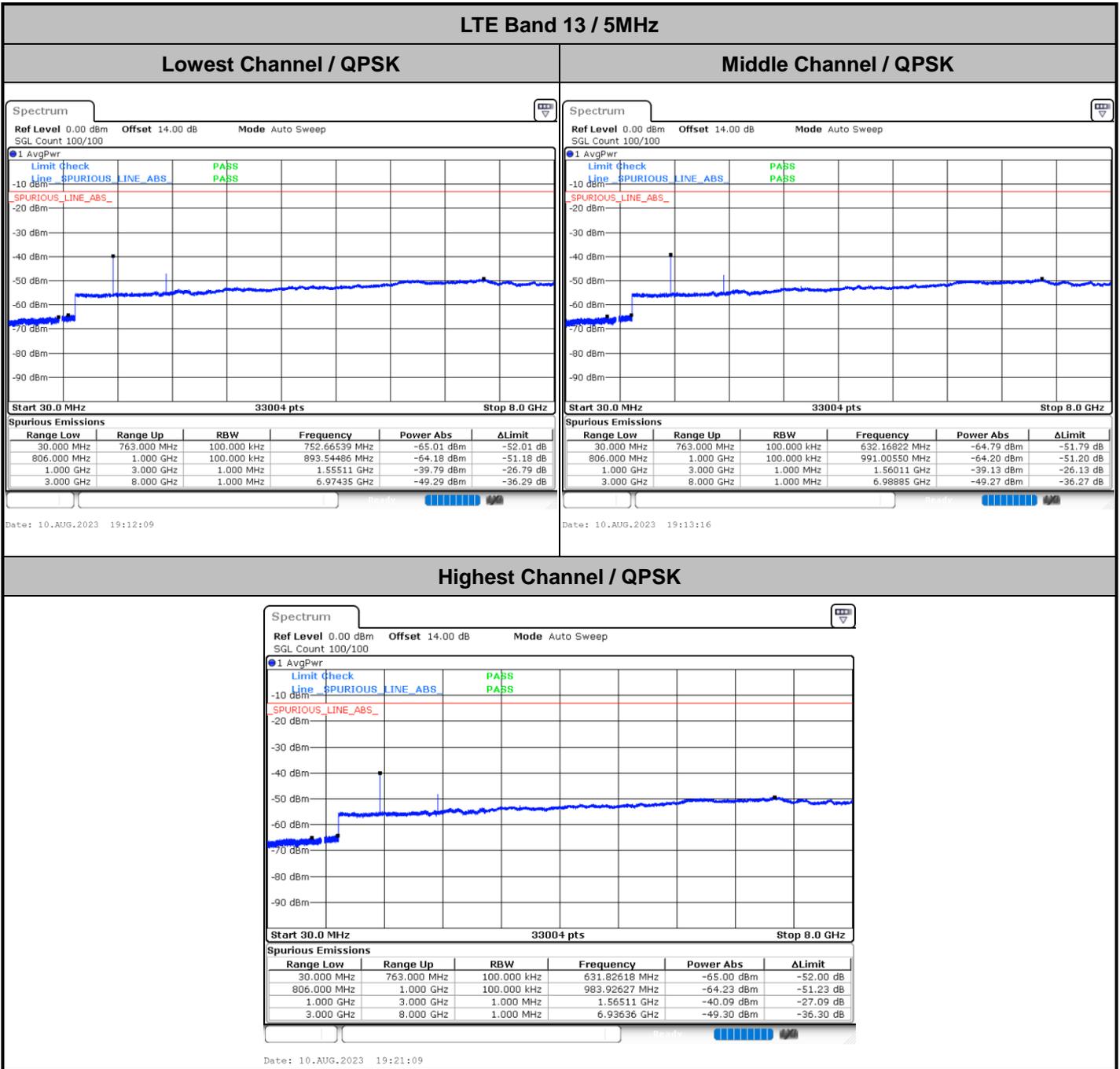








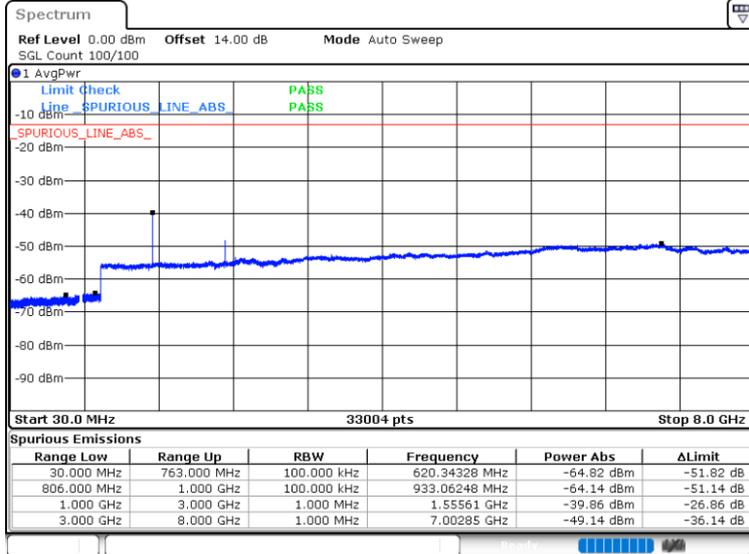
Conducted Spurious Emission





LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 10.AUG.2023 19:32:37



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	0.0065	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0084	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0081	
0	Normal Voltage	0.0079	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0003	
-30	Normal Voltage	0.0073	
20	Maximum Voltage	0.0008	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0081	

Note:

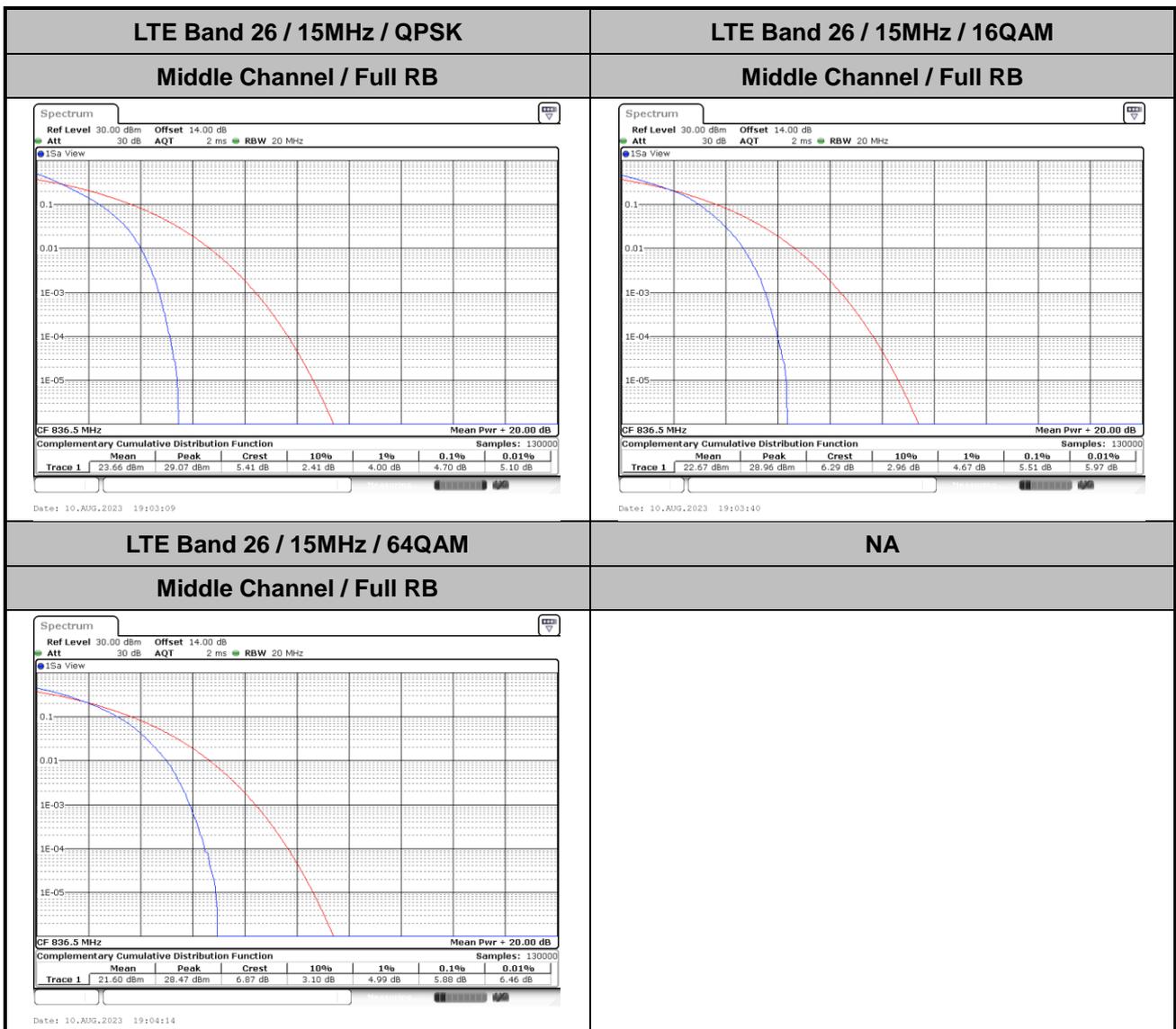
1. Normal Voltage =3.88 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.3 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 26 (Main PA)

Peak-to-Average Ratio

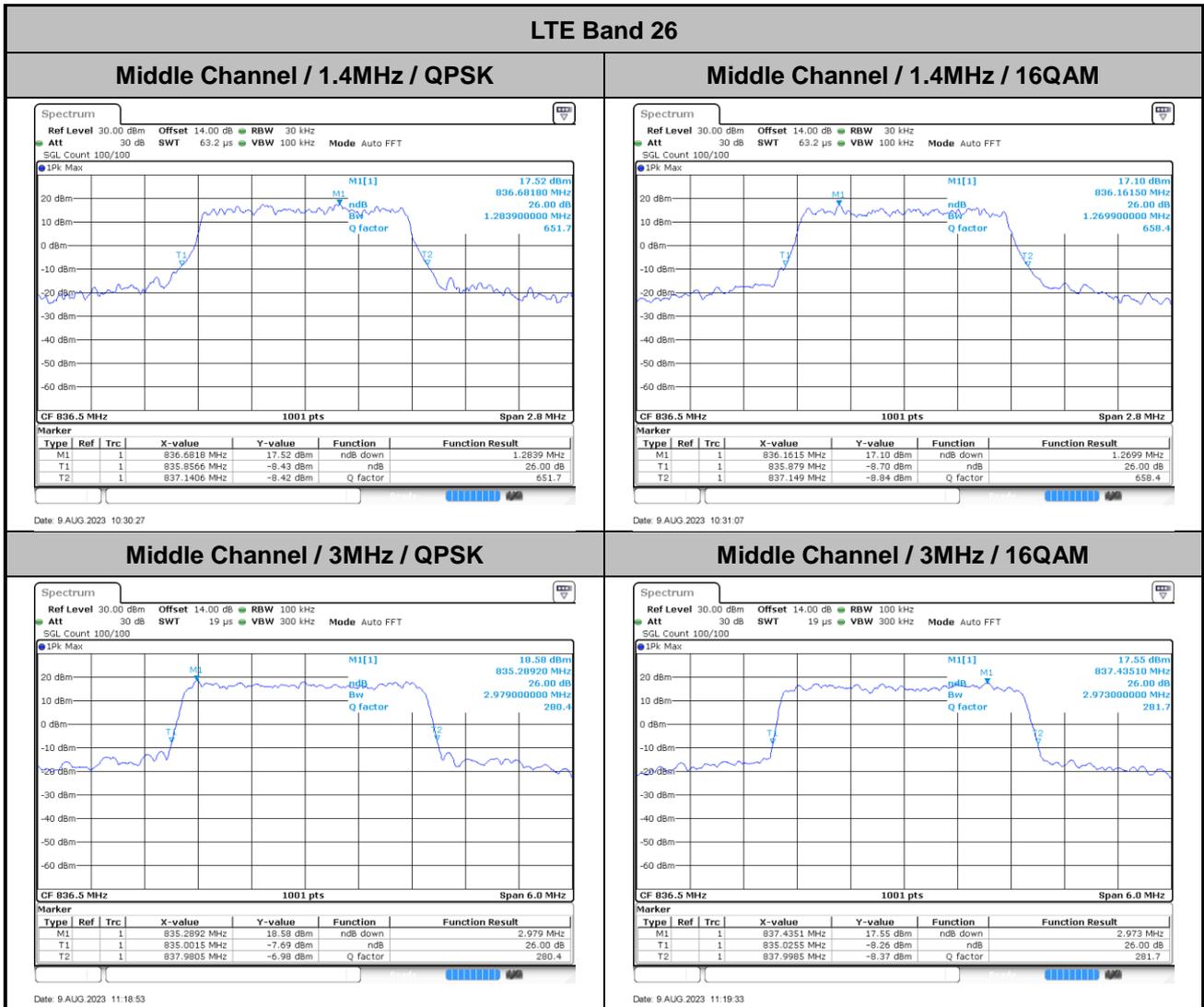
Mode	LTE Band 26 / 15MHz			
Mod.	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Result
Middle CH	4.7	5.51	5.88	PASS





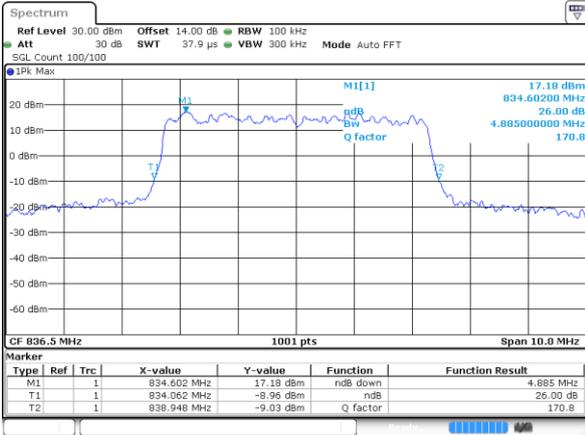
26dB Bandwidth

Mode	LTE Band 26 : 26dB BW(MHz)											
	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.28	1.27	2.98	2.97	4.89	4.87	9.79	9.73	14.45	14.45	-	-



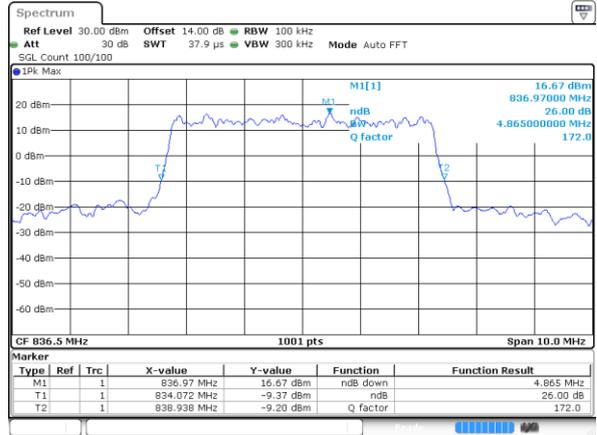


Middle Channel / 5MHz / QPSK



Date: 9 AUG 2023 11:50:21

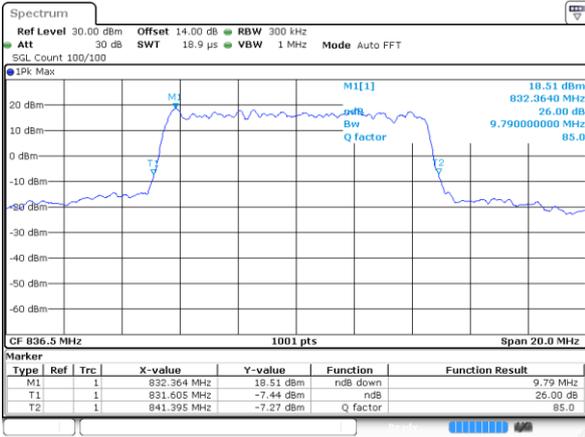
Middle Channel / 5MHz / 16QAM



Date: 9 AUG 2023 11:51:19

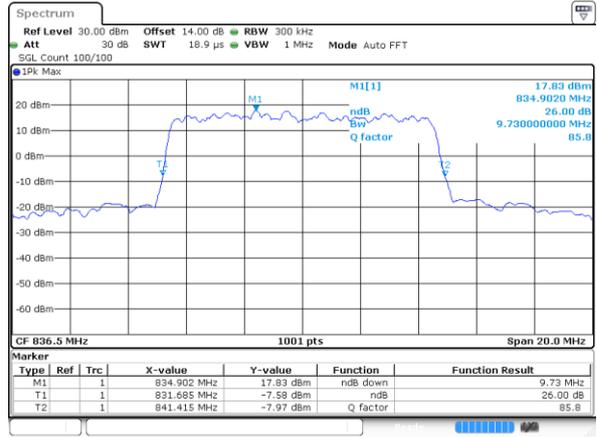
LTE Band 26

Middle Channel / 10MHz / QPSK



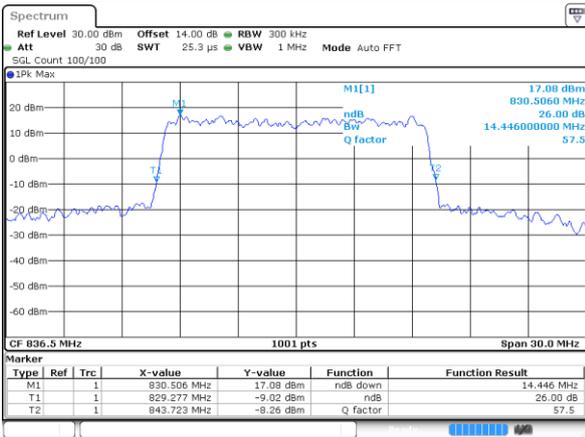
Date: 9 AUG 2023 13:23:22

Middle Channel / 10MHz / 16QAM



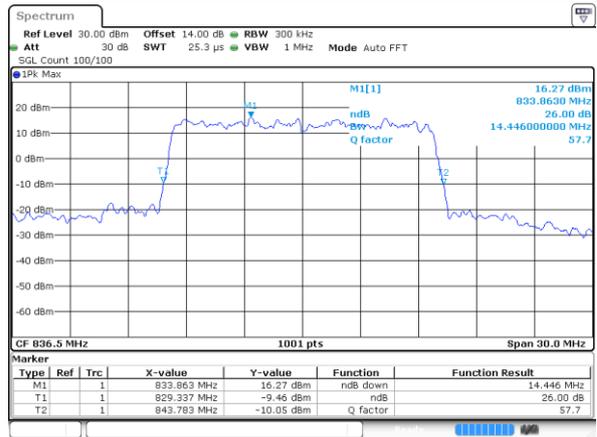
Date: 9 AUG 2023 13:24:02

Middle Channel / 15MHz / QPSK



Date: 9 AUG 2023 13:37:05

Middle Channel / 15MHz / 16QAM



Date: 9 AUG 2023 13:37:45



Occupied Bandwidth

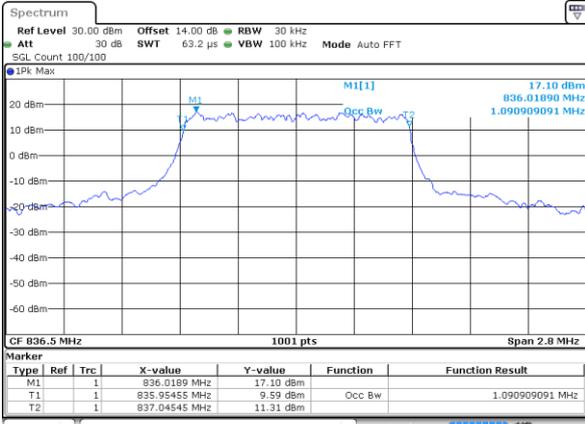
Mode	LTE Band 26 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	1.09	1.09	2.72	2.69	4.47	4.50	9.03	9.03	13.40	13.43	-	-

Mode	LTE Band 26 : 99%OBW(MHz)	
BW	15MHz(CH26790)	
Mod.	QPSK	16QAM
Lowest CH	-	-
Middle CH	-	-
Highest CH	13.49	13.43

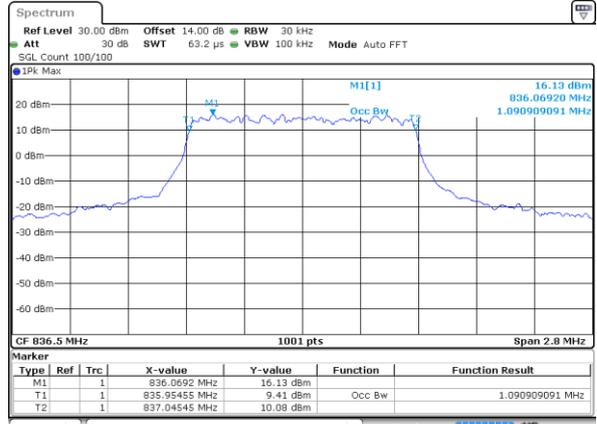


LTE Band 26

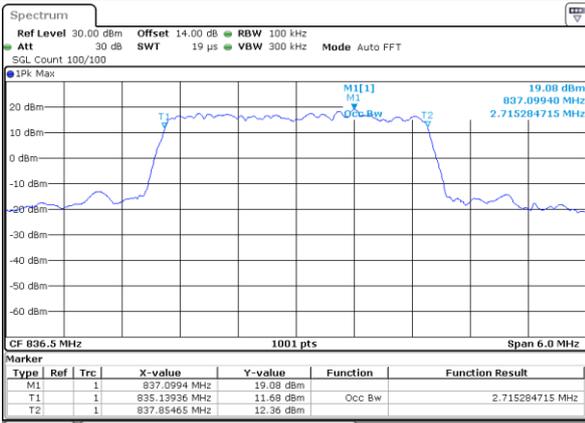
Middle Channel / 1.4MHz / QPSK



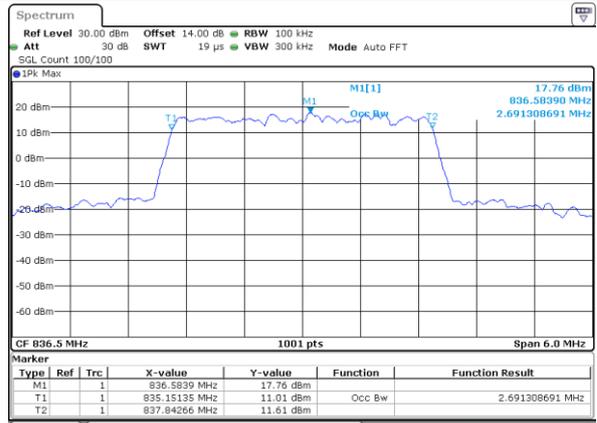
Middle Channel / 1.4MHz / 16QAM



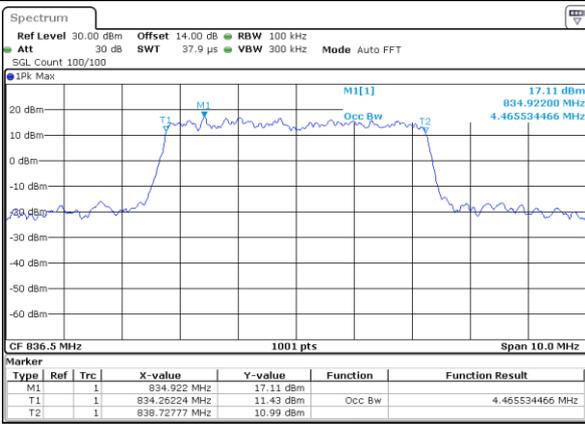
Middle Channel / 3MHz / QPSK



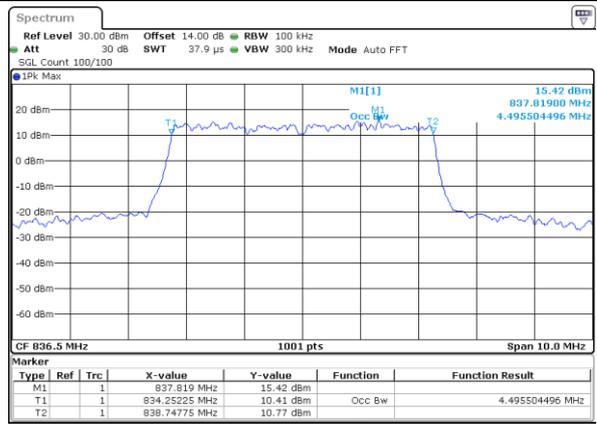
Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



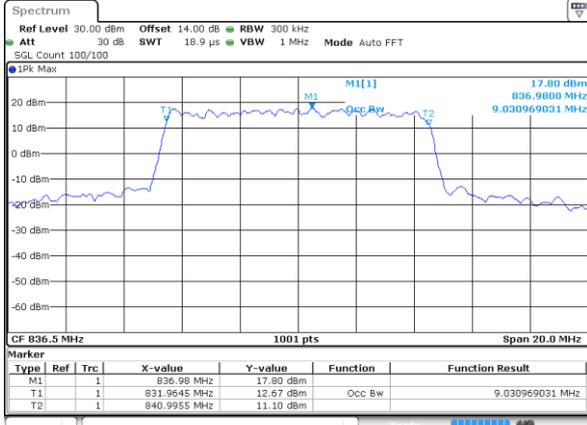
Middle Channel / 5MHz / 16QAM





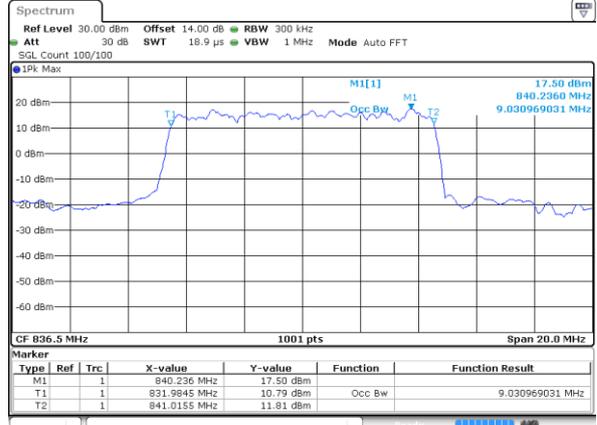
LTE Band 26

Middle Channel / 10MHz / QPSK



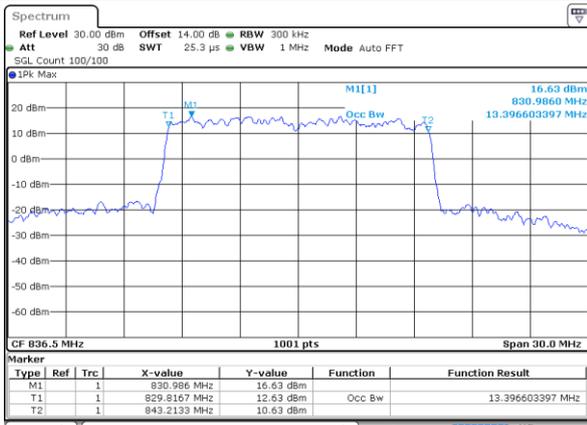
Date: 9 AUG 2023 13:23:08

Middle Channel / 10MHz / 16QAM



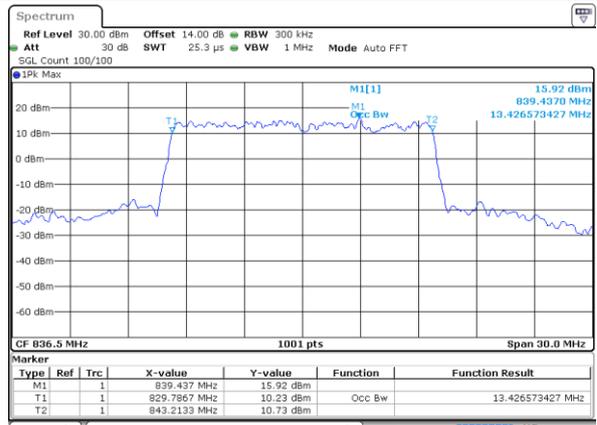
Date: 9 AUG 2023 13:23:48

Middle Channel / 15MHz / QPSK



Date: 9 AUG 2023 13:36:51

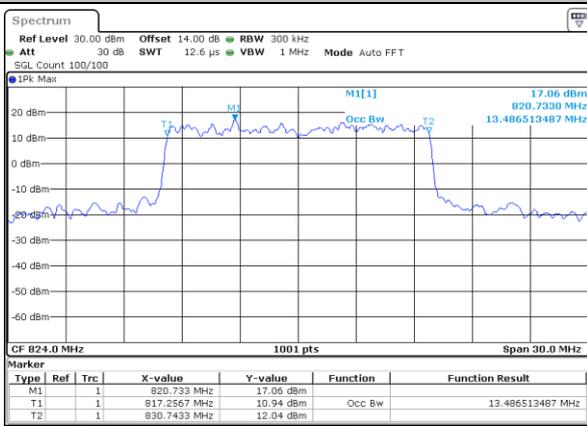
Middle Channel / 15MHz / 16QAM



Date: 9 AUG 2023 13:37:31

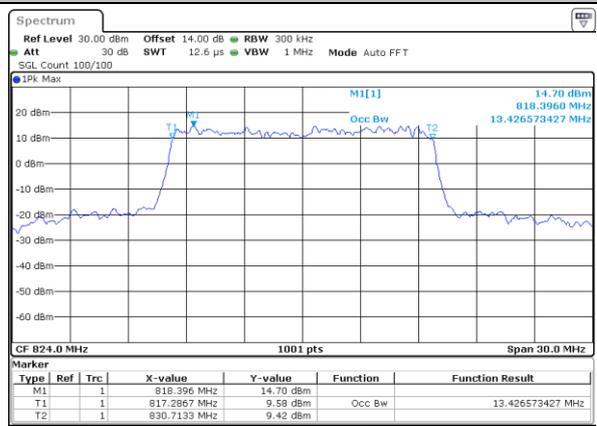
LTE Band 26

High Channel / CH26790 / QPSK



Date: 21.AUG.2023 12:46:18

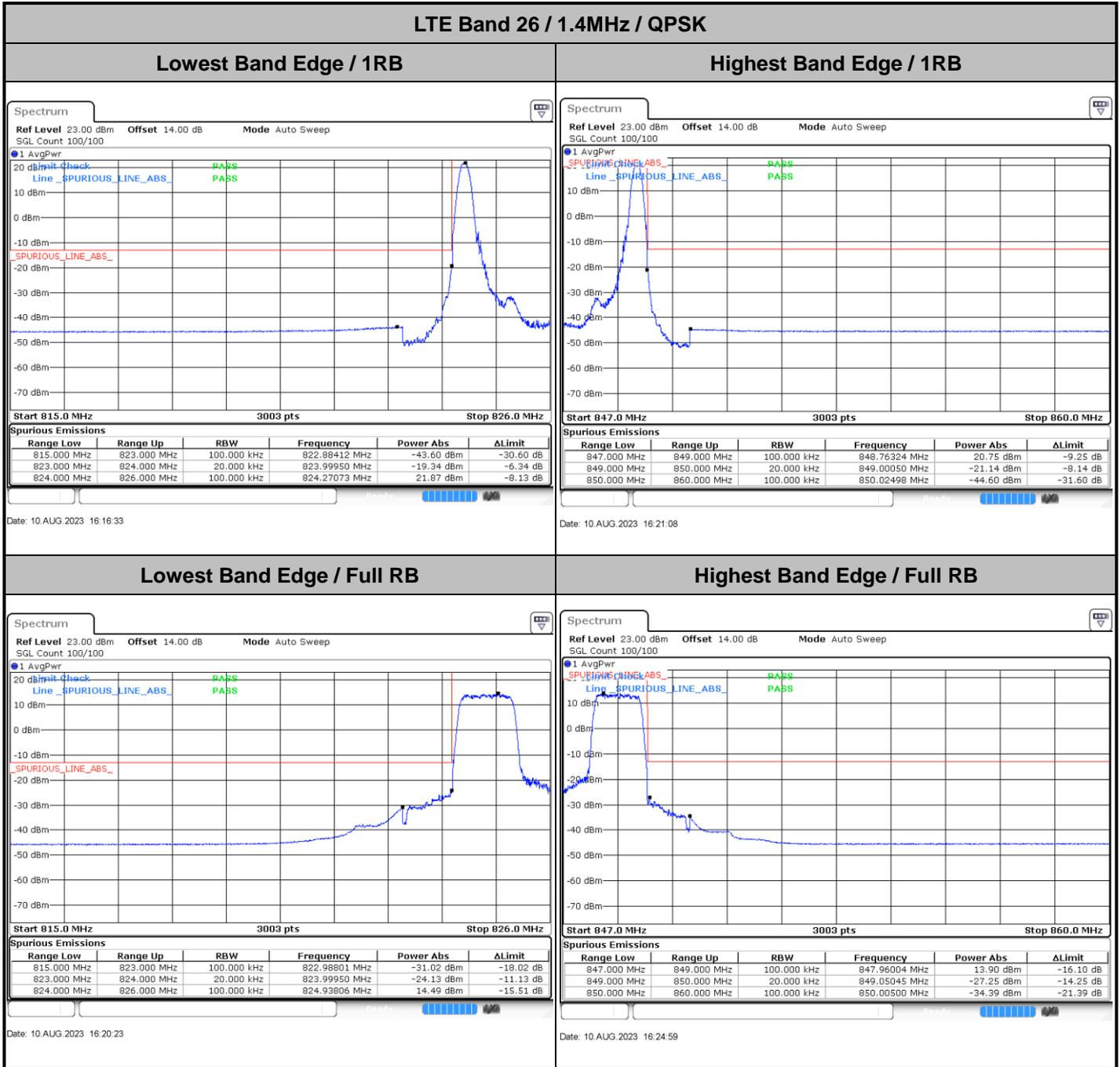
High Channel / CH26790 / 16QAM



Date: 21.AUG.2023 12:47:17



Conducted Band Edge





LTE Band 26 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB

Highest Band Edge / 1 RB

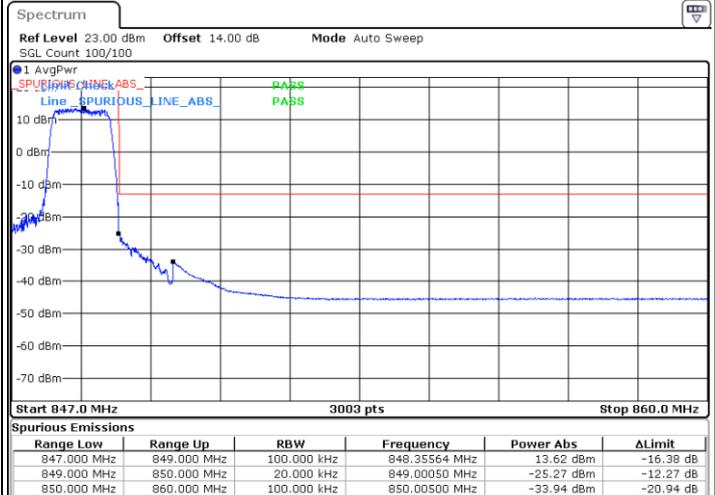
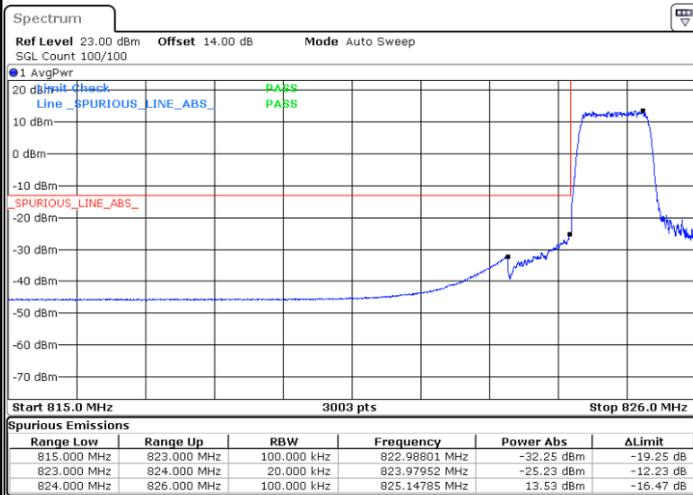


Date: 10 AUG 2023 16:17:16

Date: 10 AUG 2023 16:21:53

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 10 AUG 2023 16:19:29

Date: 10 AUG 2023 16:24:14



LTE Band 26 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



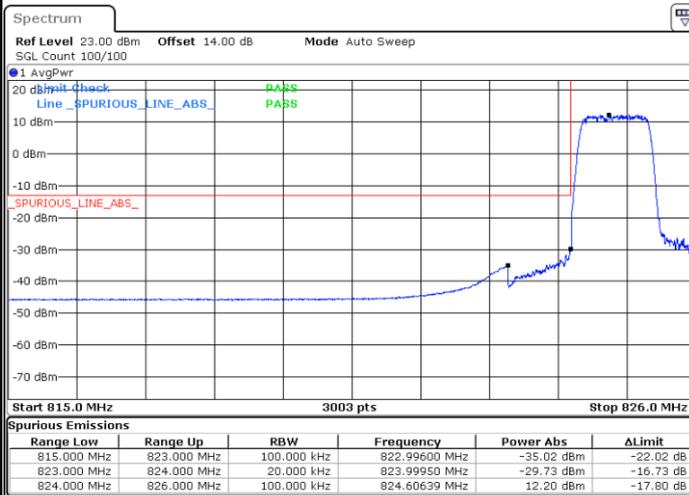
Date: 10 AUG 2023 16:18:02

Highest Band Edge / 1 RB



Date: 10 AUG 2023 16:22:39

Lowest Band Edge / Full RB



Date: 10 AUG 2023 16:18:45

Highest Band Edge / Full RB

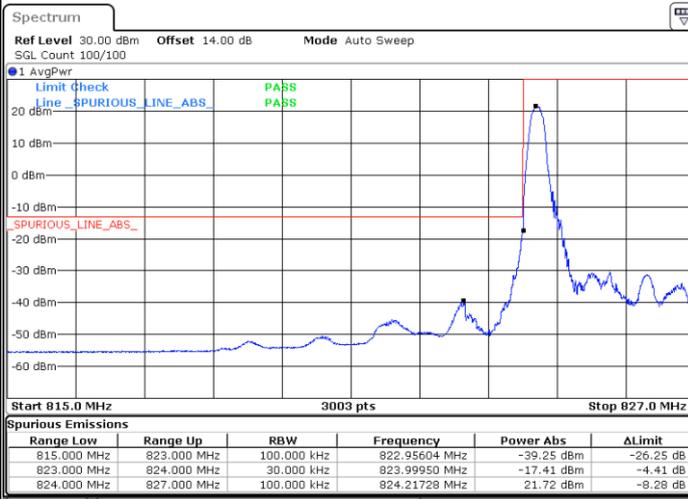


Date: 10 AUG 2023 16:23:28



LTE Band 26 / 3MHz / QPSK

Lowest Band Edge / 1RB



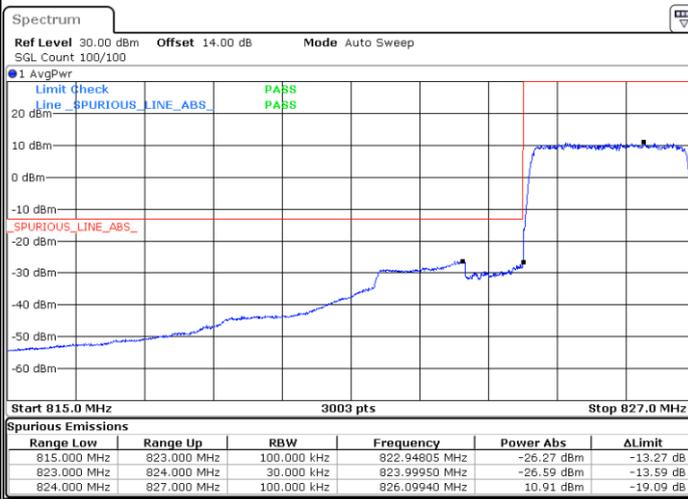
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Highest Band Edge / 1RB



Date: 9 AUG 2023 11:37:13

Lowest Band Edge / Full RB



Date: 9 AUG 2023 11:36:17

Highest Band Edge / Full RB



Date: 9 AUG 2023 11:41:29



LTE Band 26 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



Date: 9 AUG 2023 11:32:34

Highest Band Edge / 1 RB



Date: 9 AUG 2023 11:38:10

Lowest Band Edge / Full RB



Date: 9 AUG 2023 11:35:21

Highest Band Edge / Full RB

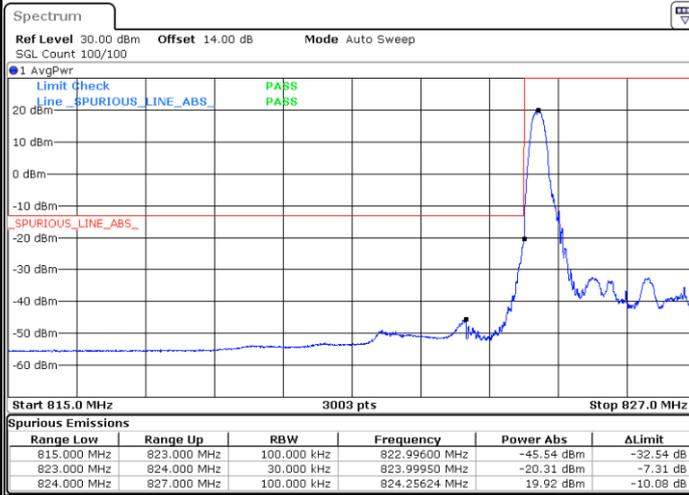


Date: 9 AUG 2023 11:40:41



LTE Band 26 / 3MHz / 64QAM

Lowest Band Edge / 1 RB



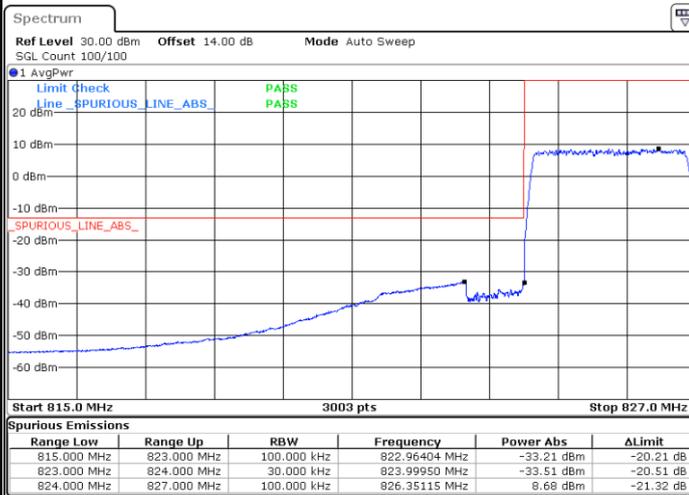
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Highest Band Edge / 1 RB



Date: 9 AUG 2023 11:39:01

Lowest Band Edge / Full RB



Date: 9 AUG 2023 11:34:25

Highest Band Edge / Full RB

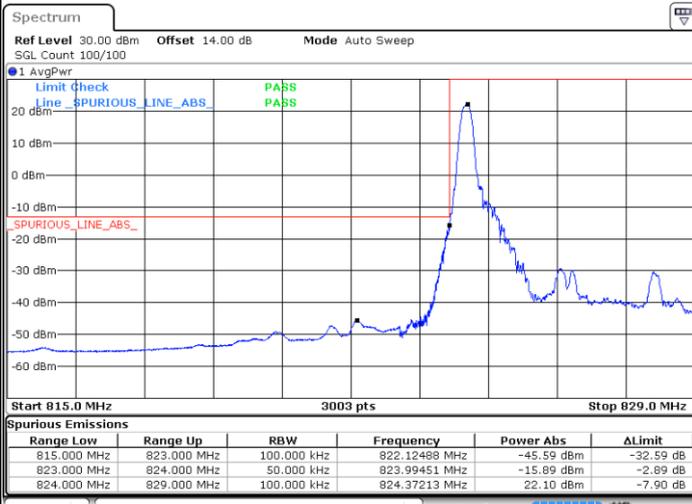


Date: 9 AUG 2023 11:39:52



LTE Band 26 / 5MHz / QPSK

Lowest Band Edge / 1RB



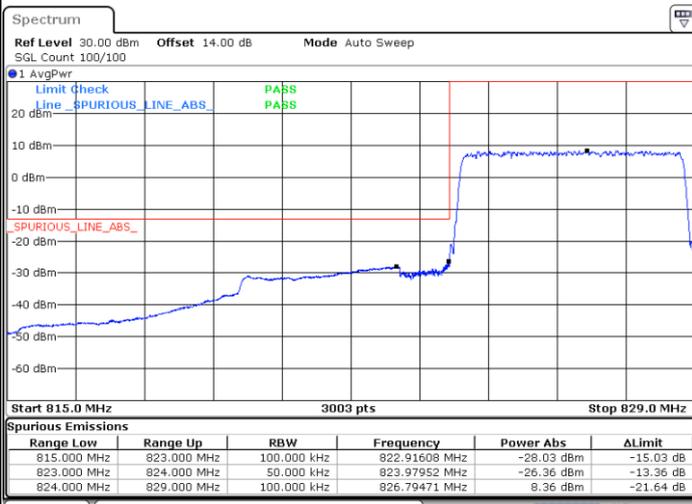
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Highest Band Edge / 1RB



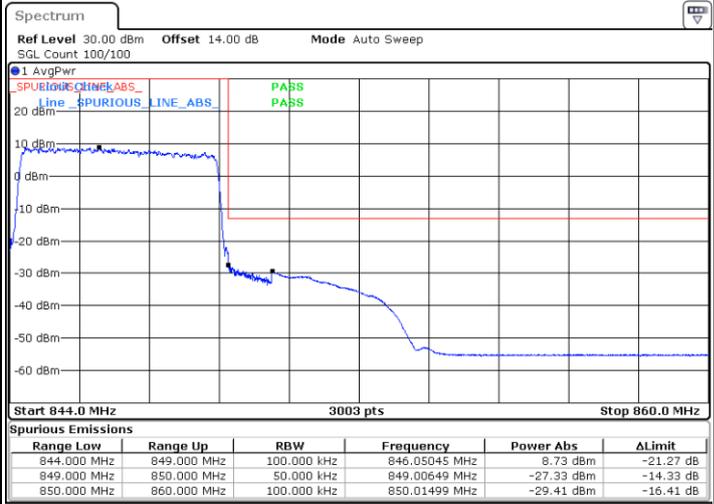
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Lowest Band Edge / Full RB



Date: 9 AUG 2023 13:10:50

Highest Band Edge / Full RB

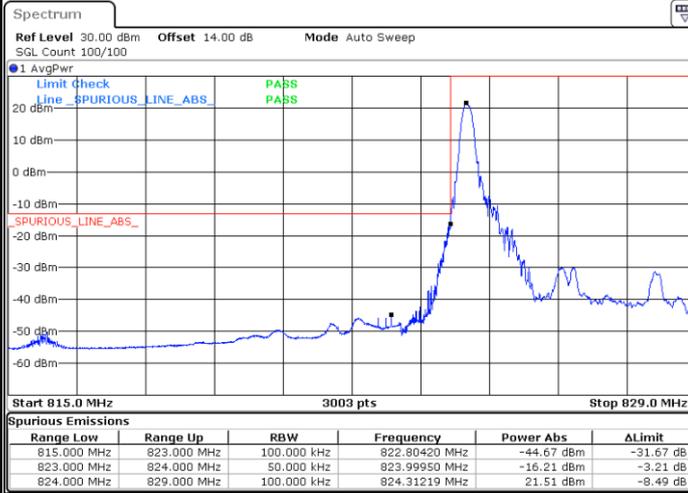


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LTE Band 26 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



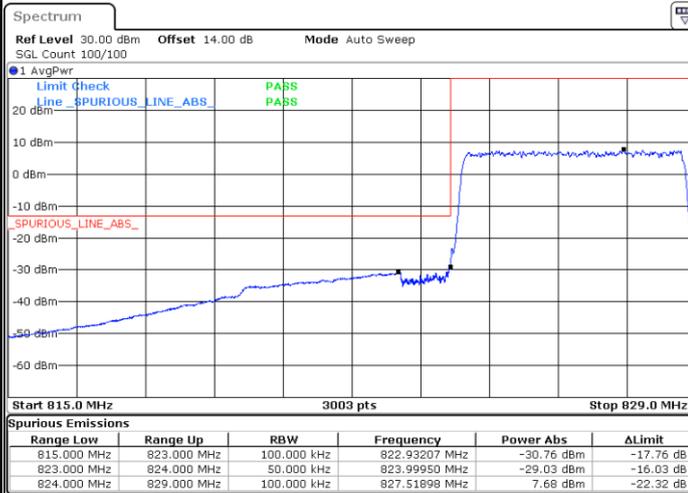
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Highest Band Edge / 1 RB



Date: 9 AUG 2023 13:12:26

Lowest Band Edge / Full RB



Date: 9 AUG 2023 13:10:04

Highest Band Edge / Full RB

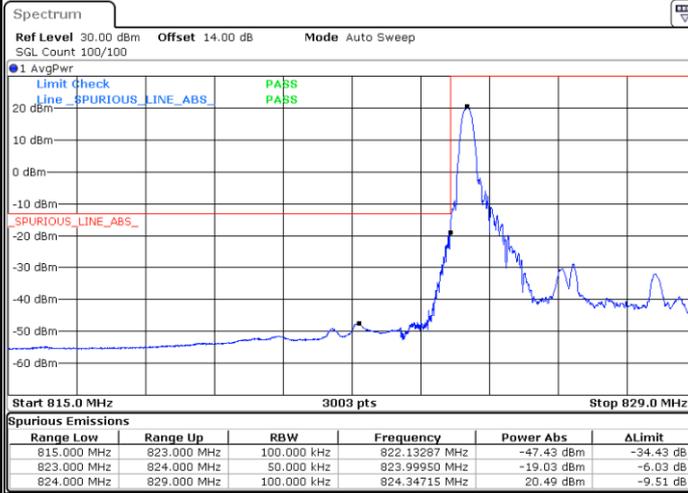


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LTE Band 26 / 5MHz / 64QAM

Lowest Band Edge / 1 RB



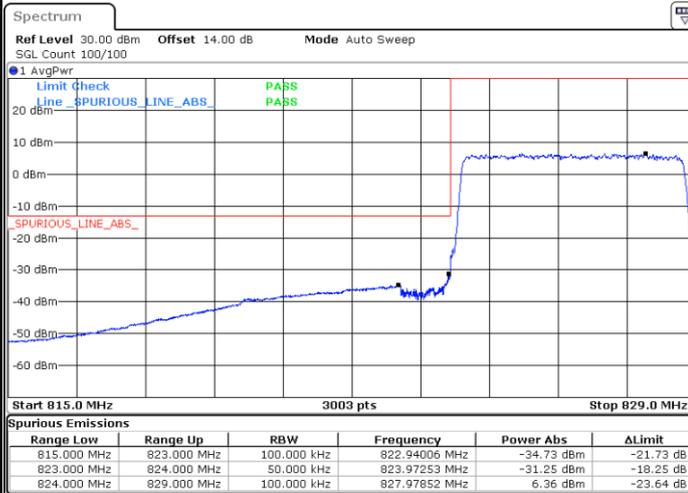
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Highest Band Edge / 1 RB



Date: 9 AUG 2023 13:13:15

Lowest Band Edge / Full RB



Date: 9 AUG 2023 13:09:18

Highest Band Edge / Full RB



Date: 9 AUG 2023 13:14:03