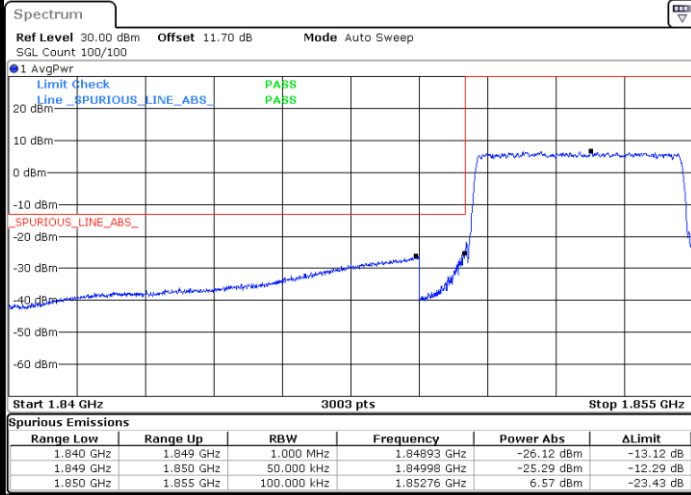




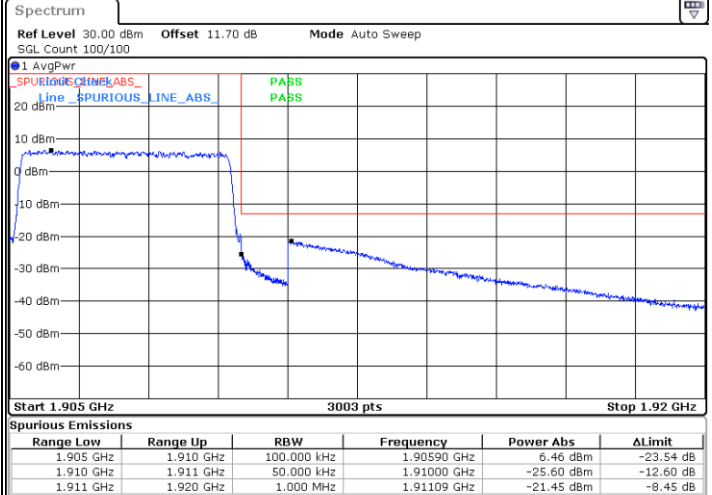
LTE Band 2 / 5MHz / QPSK

Lowest Band Edge / Full RB



Date: 14.MAR.2023 20:08:45

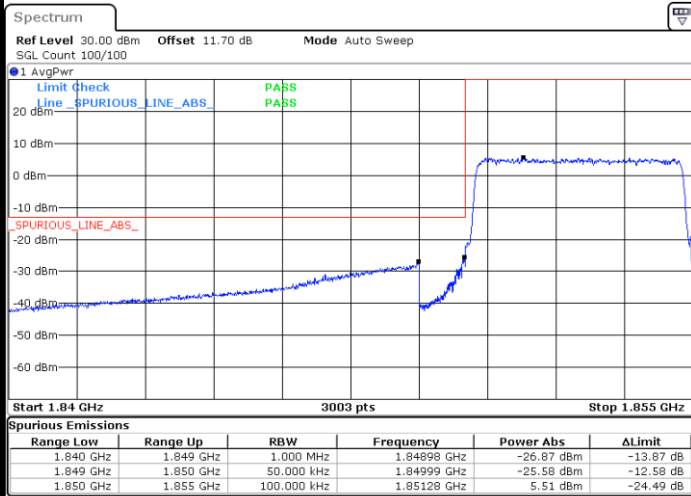
Highest Band Edge / Full RB



Date: 14.MAR.2023 20:21:24

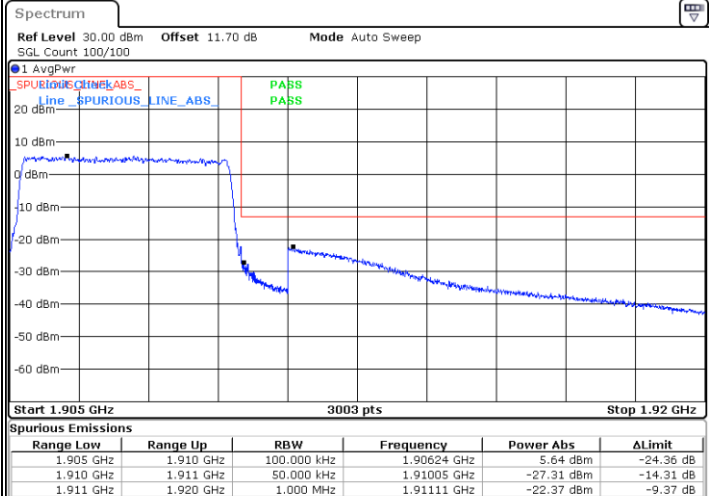
LTE Band 2 / 5MHz / 16QAM

Lowest Band Edge / Full RB



Date: 14.MAR.2023 20:10:05

Highest Band Edge / Full RB



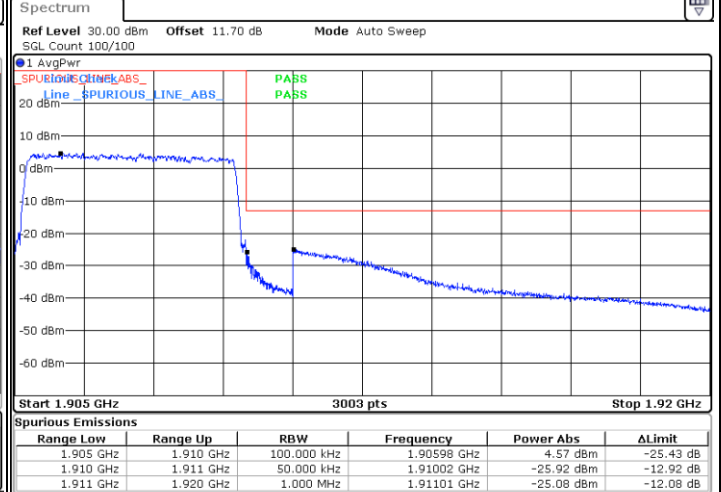
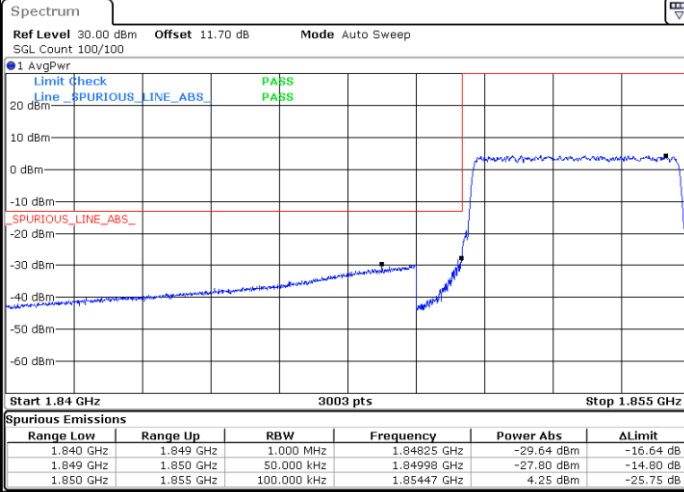
Date: 14.MAR.2023 20:22:38



LTE Band 2 / 5MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



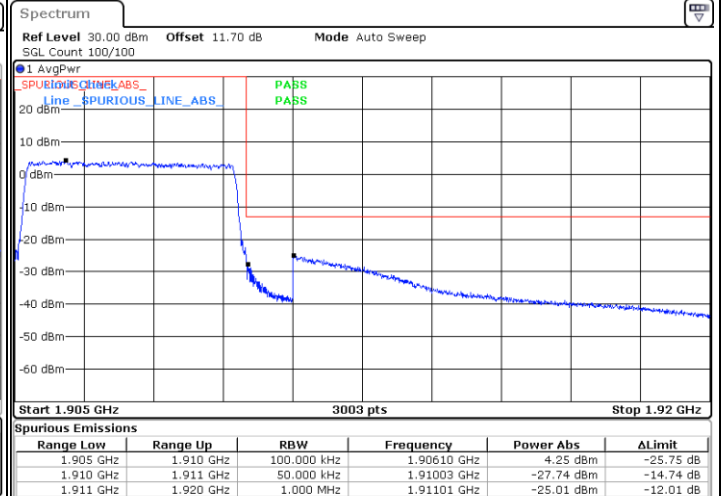
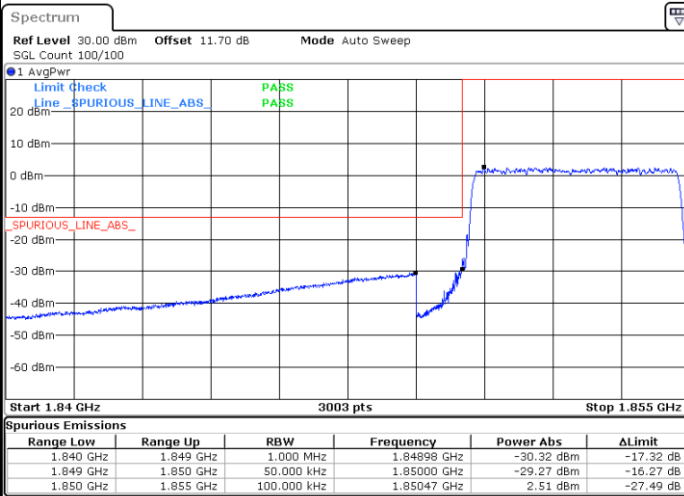
Date: 14.MAR.2023 20:23:51

Date: 14.MAR.2023 20:28:33

LTE Band 2 / 5MHz / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.MAR.2023 21:49:17

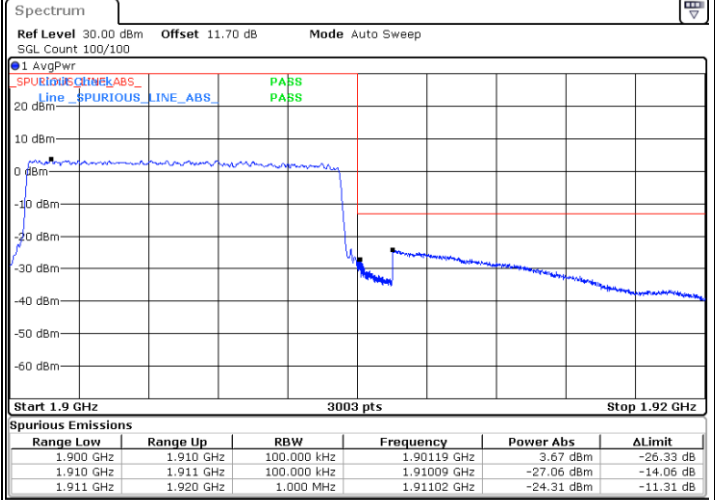
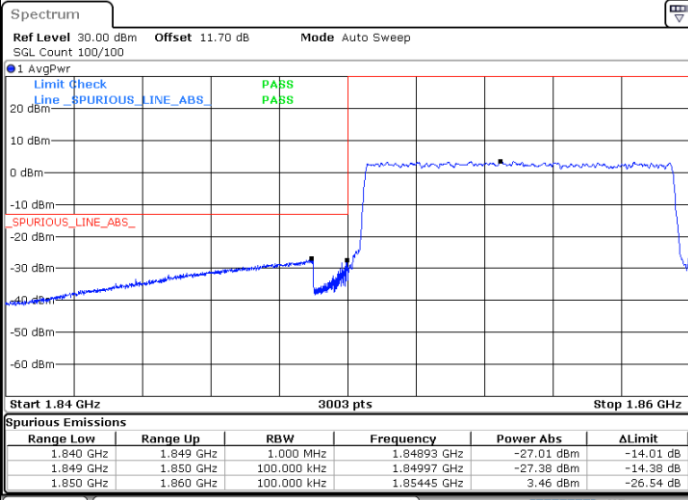
Date: 16.MAR.2023 18:53:03



LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



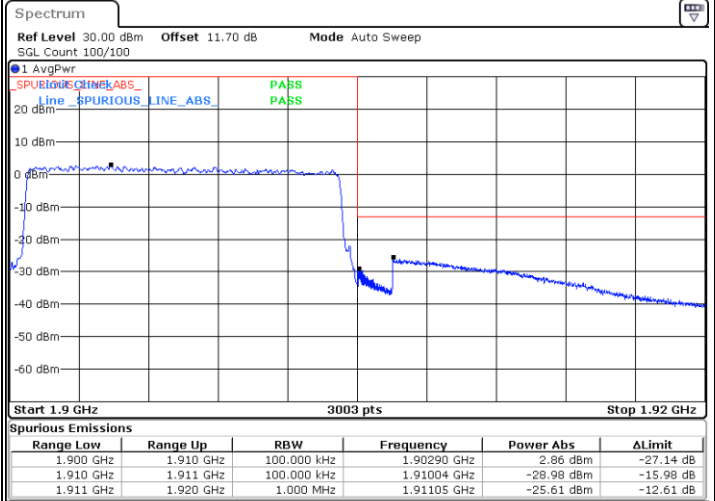
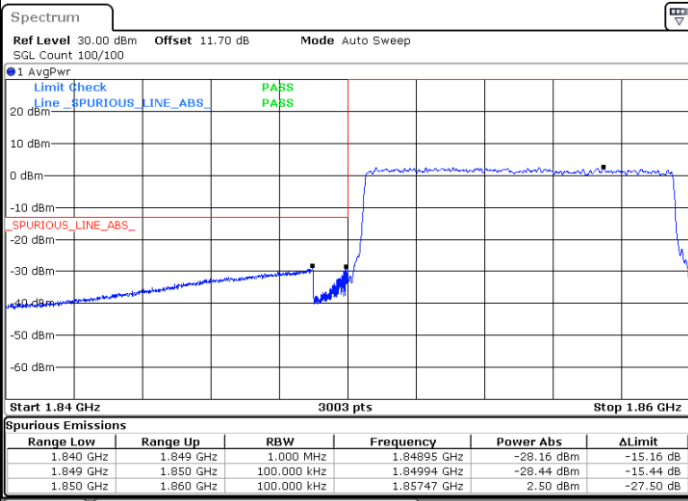
Date: 14.MAR.2023 20:31:27

Date: 14.MAR.2023 20:38:08

LTE Band 2 / 10MHz / 16QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.MAR.2023 20:32:40

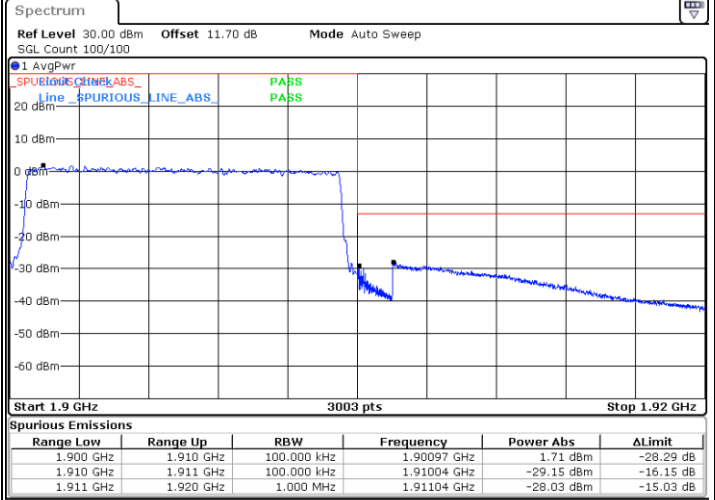
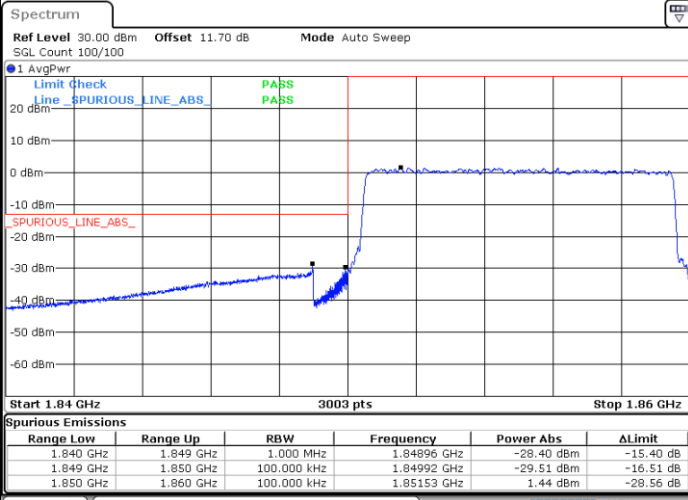
Date: 14.MAR.2023 20:39:21



LTE Band 2 / 10MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



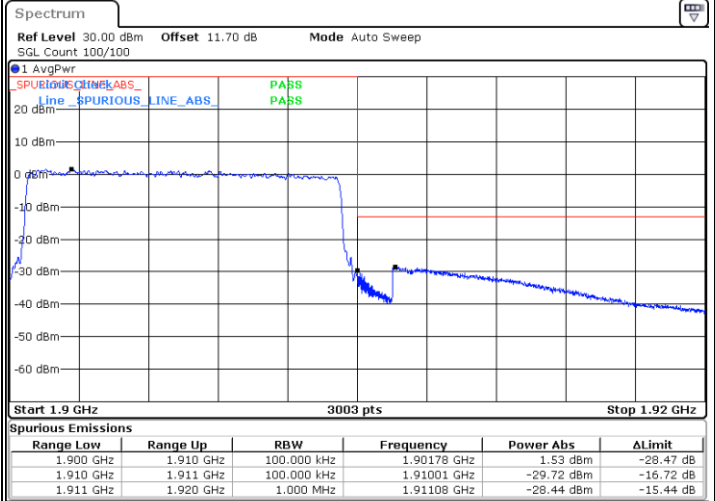
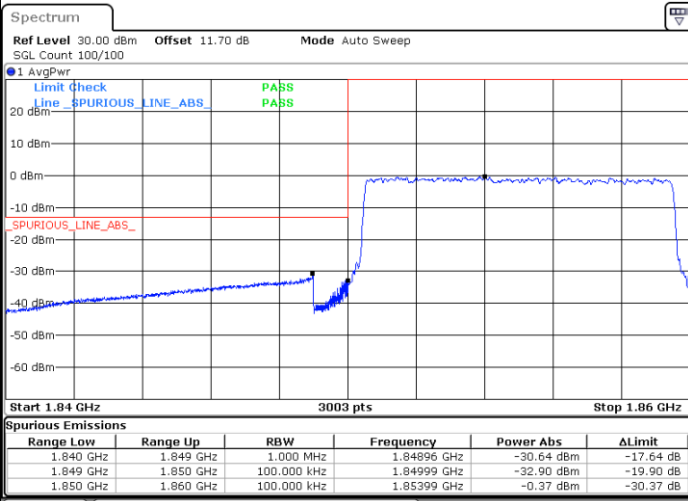
Date: 14.MAR.2023 20:40:35

Date: 14.MAR.2023 20:42:35

LTE Band 2 / 10MHz / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



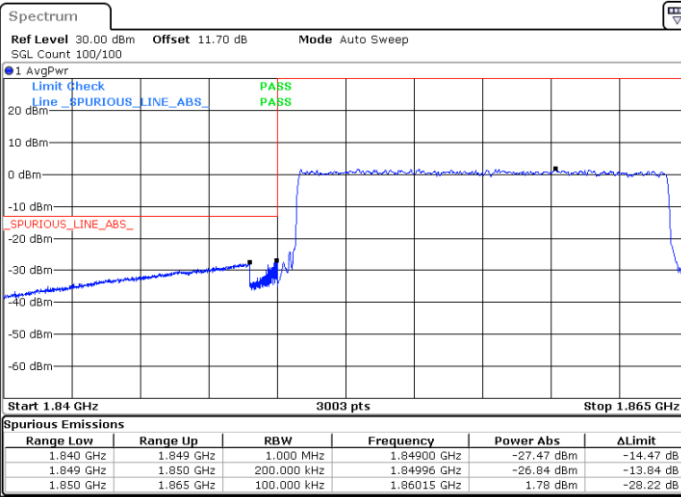
Date: 14.MAR.2023 21:54:37

Date: 16.MAR.2023 19:00:29



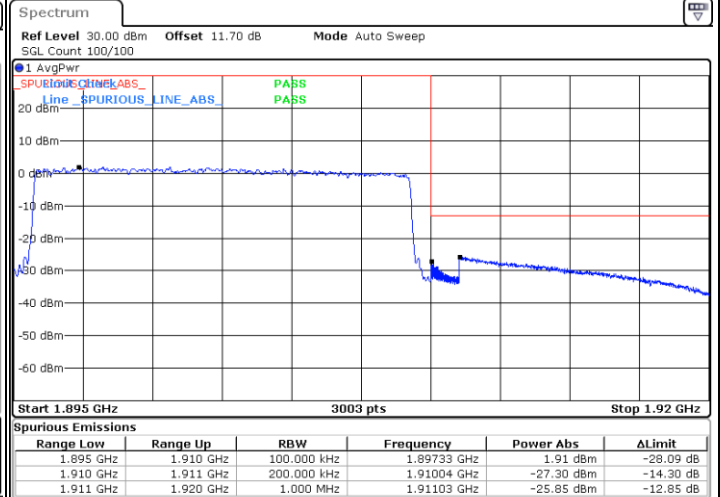
LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / Full RB



Date: 14.MAR.2023 20:48:47

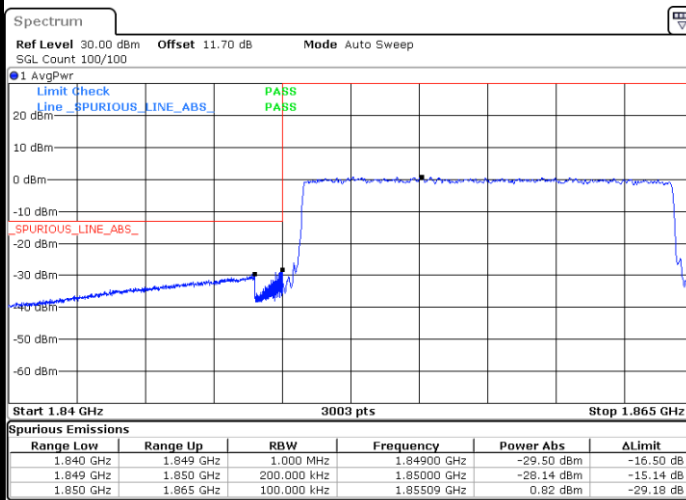
Highest Band Edge / Full RB



Date: 14.MAR.2023 20:52:47

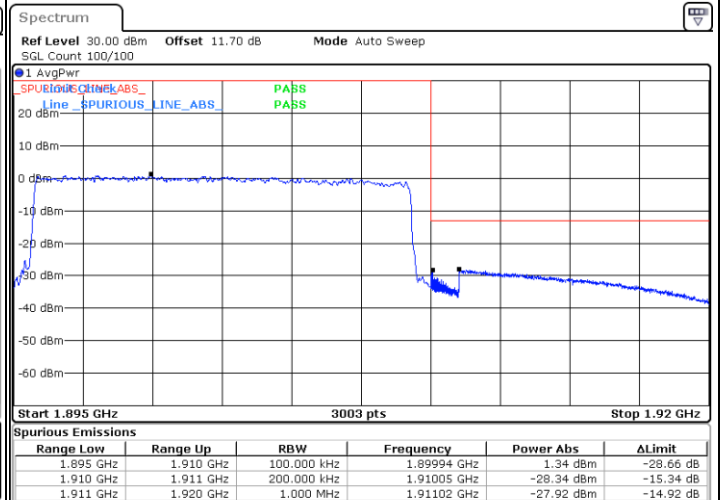
LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / Full RB



Date: 14.MAR.2023 20:50:00

Highest Band Edge / Full RB

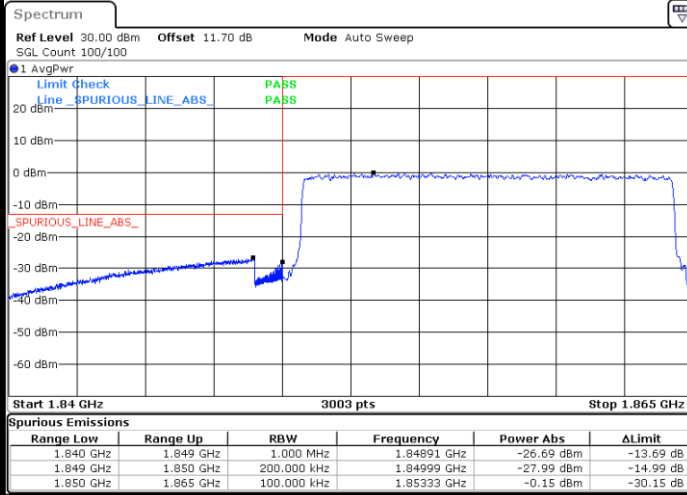


Date: 14.MAR.2023 20:54:00



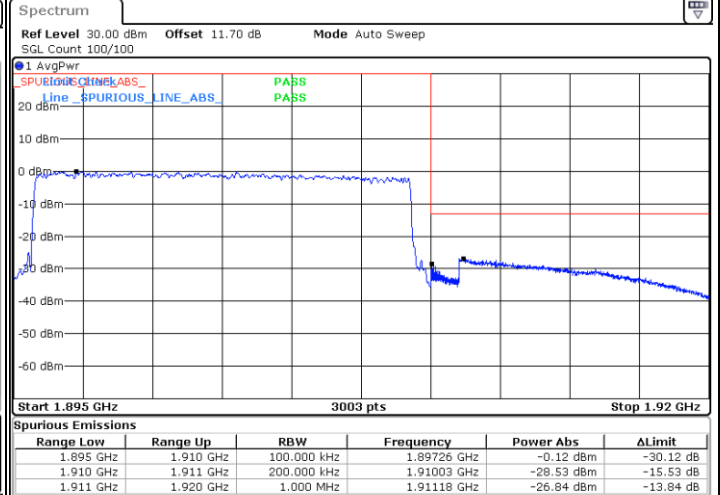
LTE Band 2 / 15MHz / 64QAM

Lowest Band Edge / Full RB



Date: 14.MAR.2023 20:55:13

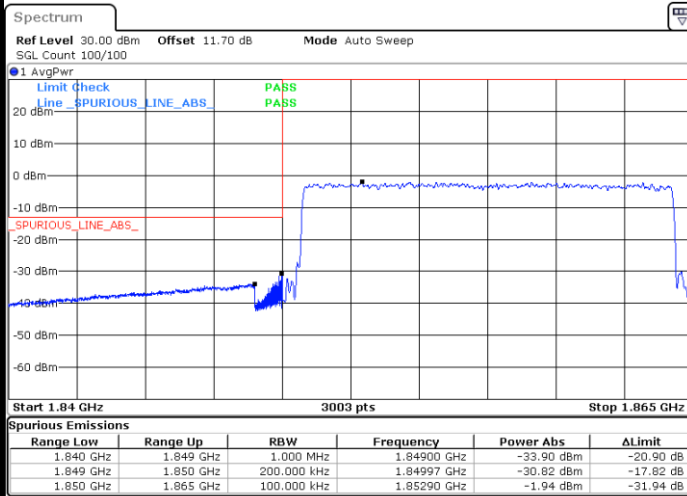
Highest Band Edge / Full RB



Date: 14.MAR.2023 20:59:54

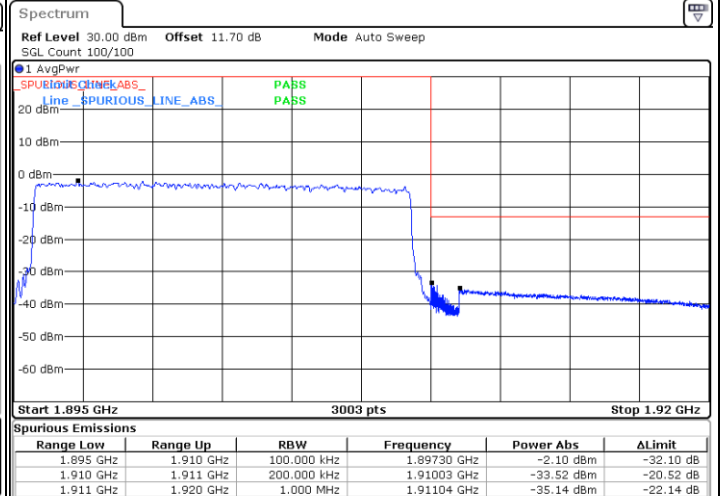
LTE Band 2 / 15MHz / 256QAM

Lowest Band Edge / Full RB



Date: 14.MAR.2023 21:59:48

Highest Band Edge / Full RB

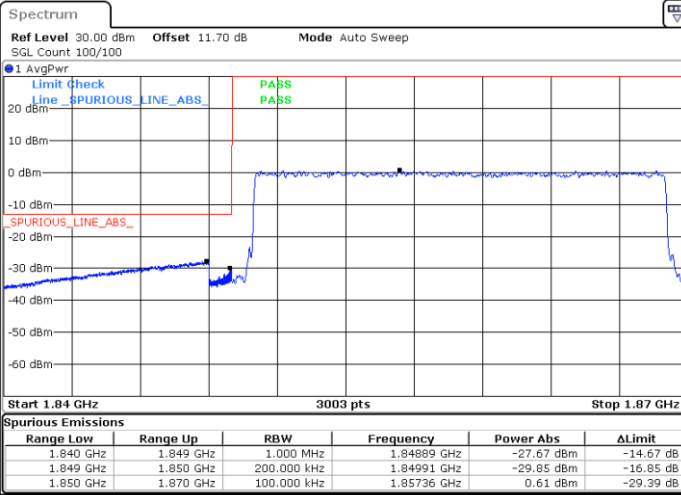


Date: 16.MAR.2023 19:05:21



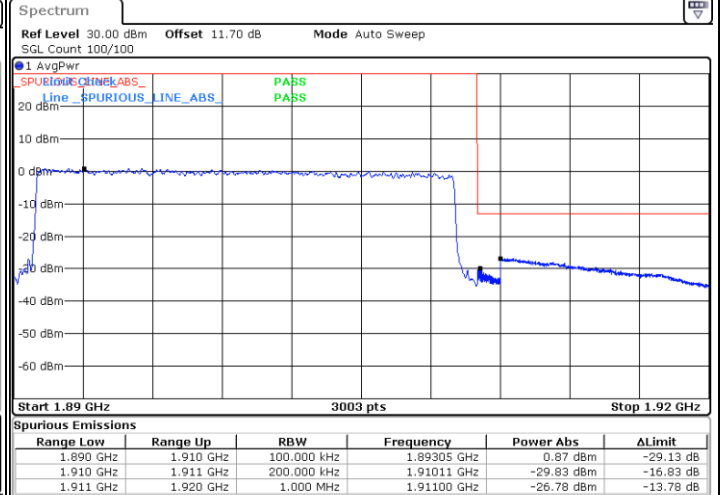
LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / Full RB



Date: 14.MAR.2023 21:08:42

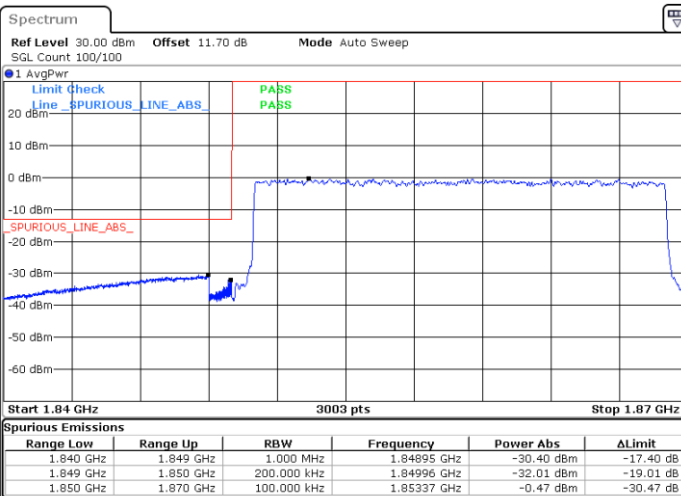
Highest Band Edge / Full RB



Date: 14.MAR.2023 21:12:43

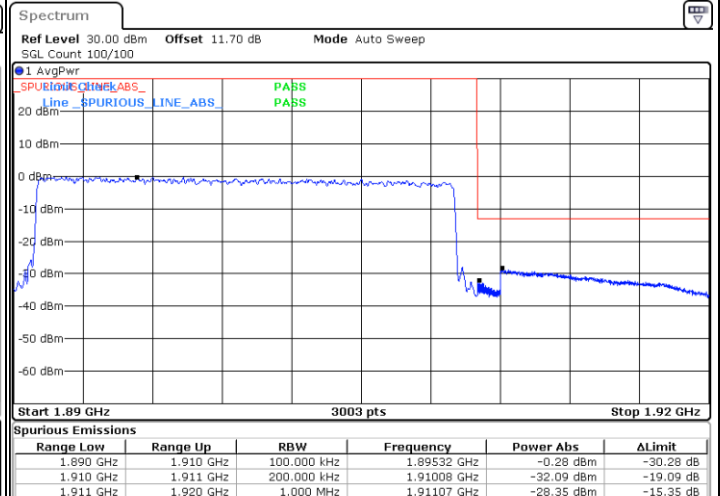
LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / Full RB



Date: 14.MAR.2023 21:09:56

Highest Band Edge / Full RB



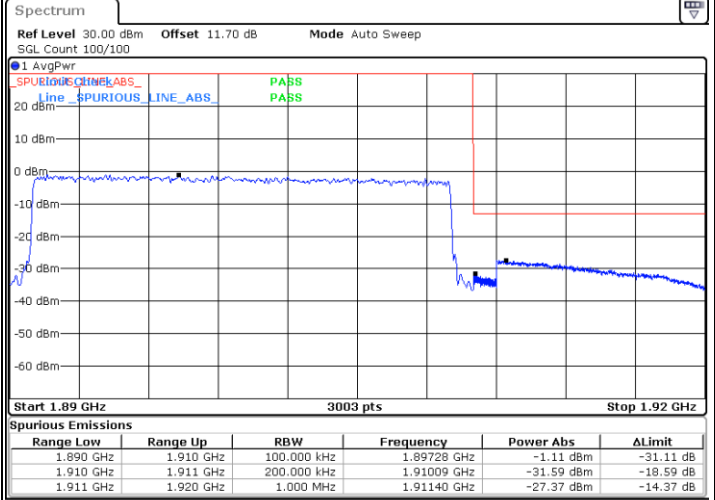
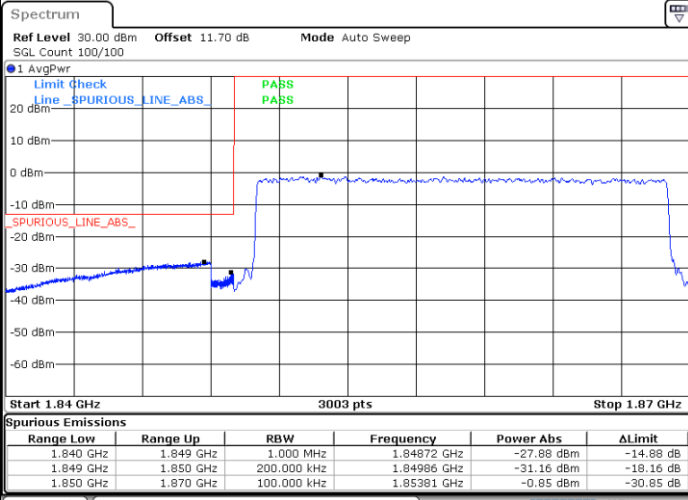
Date: 14.MAR.2023 21:13:56



LTE Band 2 / 20MHz / 64QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



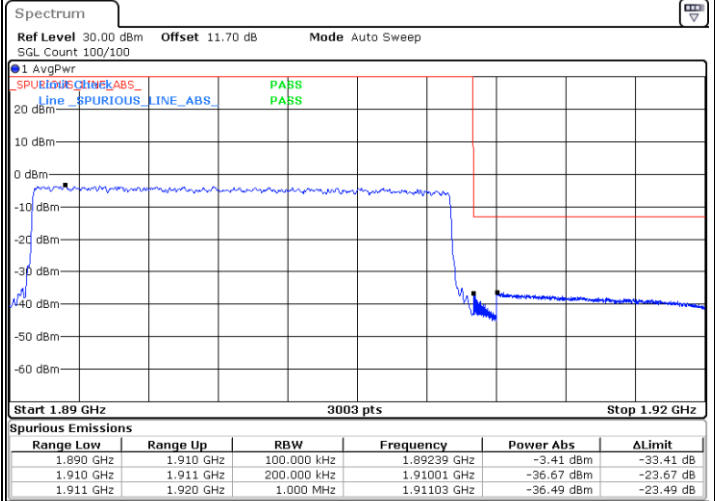
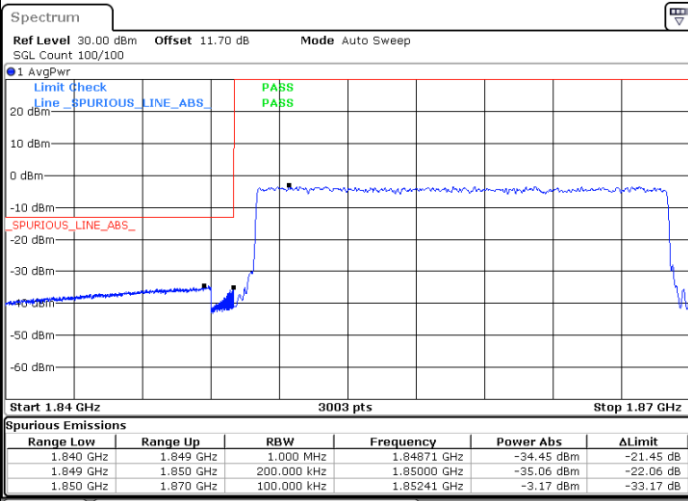
Date: 14.MAR.2023 21:15:09

Date: 14.MAR.2023 21:17:09

LTE Band 2 / 20MHz / 256QAM

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.MAR.2023 22:06:09

Date: 16.MAR.2023 19:07:25

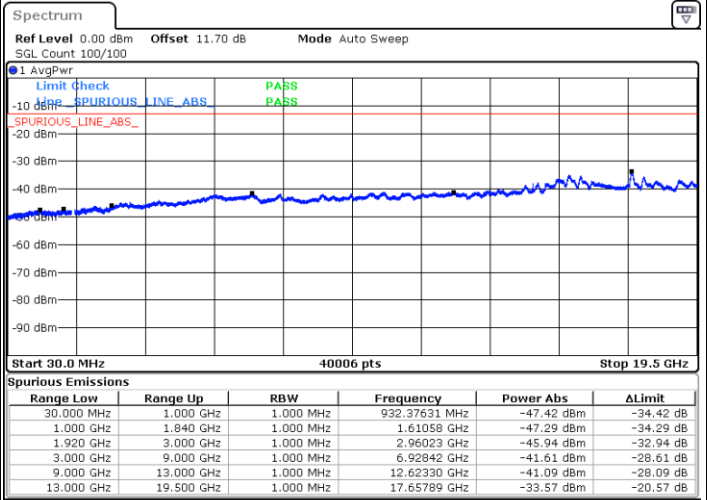
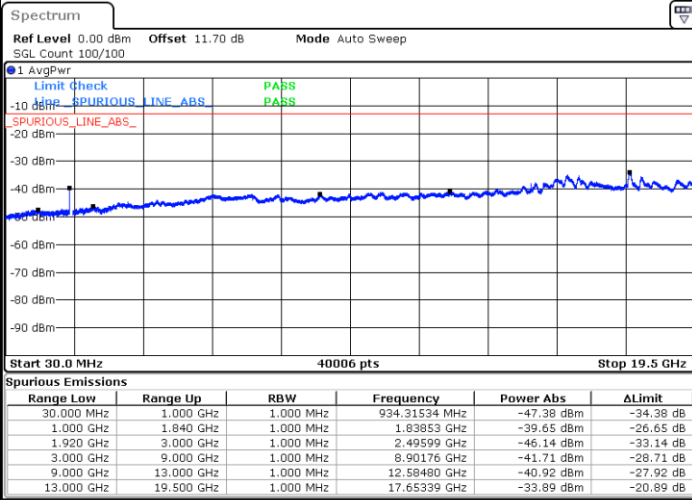


Conducted Spurious Emission

LTE Band 2 / 1.4MHz

Lowest Channel / QPSK

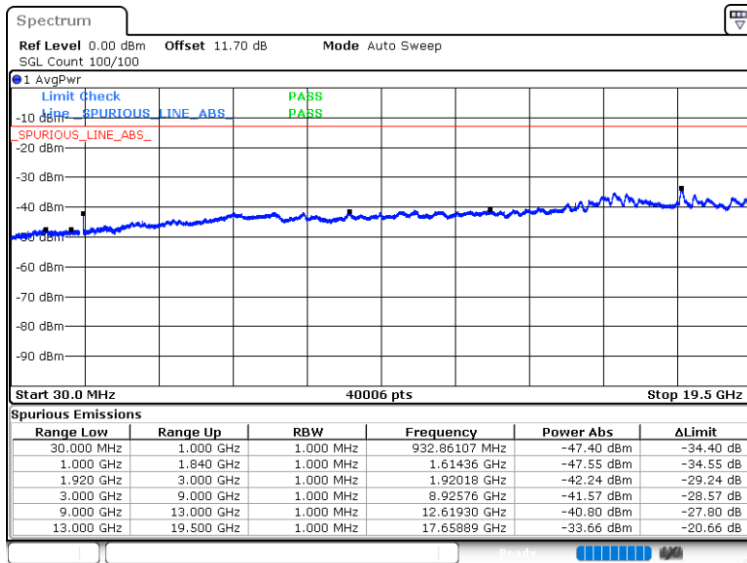
Middle Channel / QPSK



Date: 14.MAR.2023 19:32:50

Date: 14.MAR.2023 19:35:31

Highest Channel / QPSK



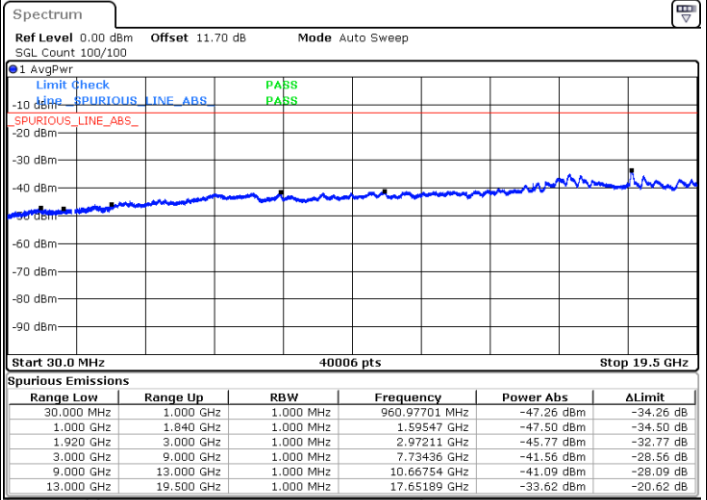
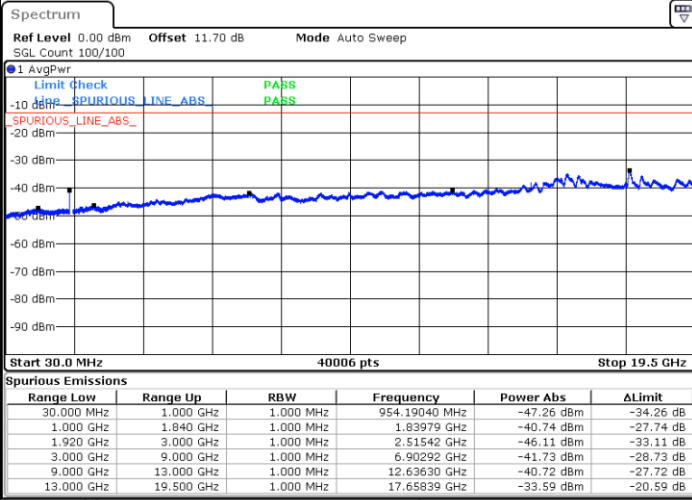
Date: 14.MAR.2023 19:41:31



LTE Band 2 / 3MHz

Lowest Channel / QPSK

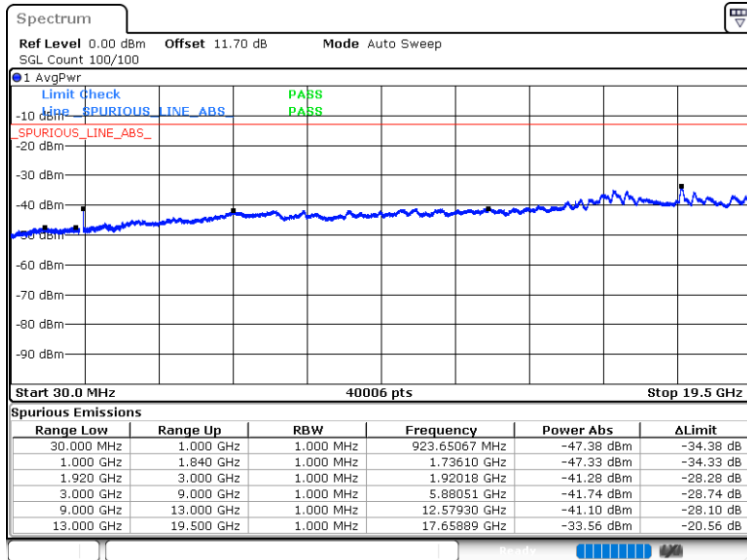
Middle Channel / QPSK



Date: 14.MAR.2023 19:50:04

Date: 14.MAR.2023 19:51:04

Highest Channel / QPSK

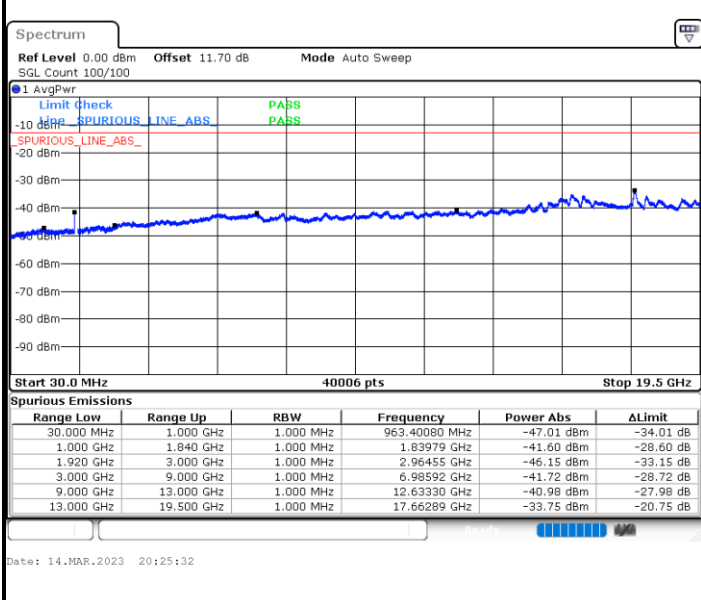


Date: 14.MAR.2023 19:52:03

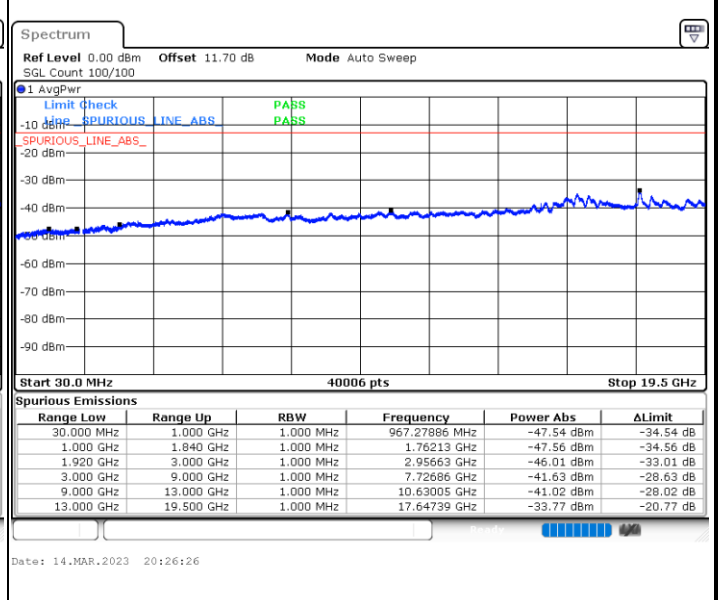


LTE Band 2 / 5MHz

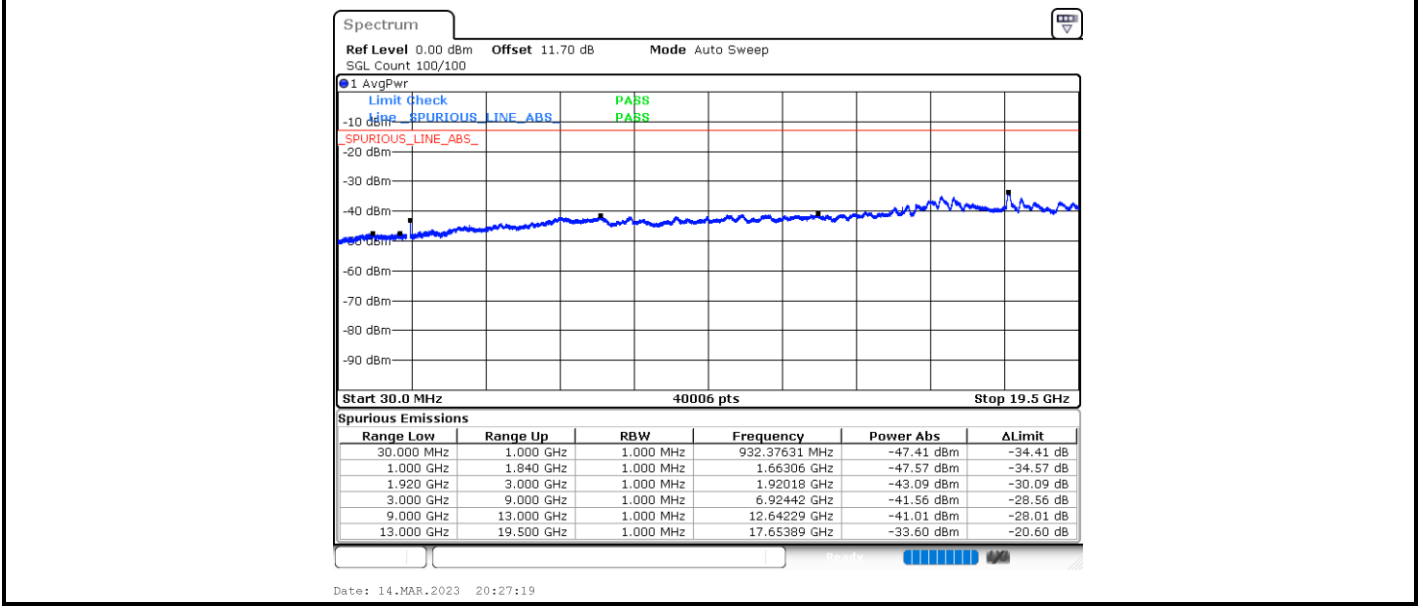
Lowest Channel / QPSK



Middle Channel / QPSK



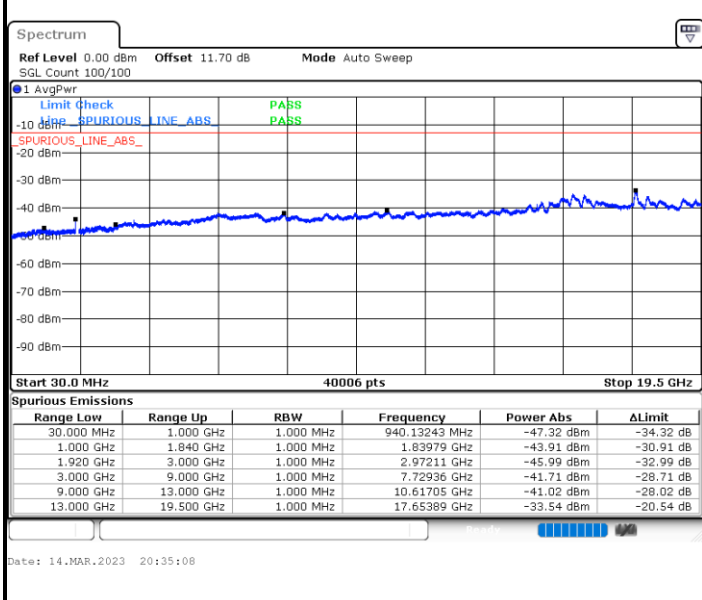
Highest Channel / QPSK



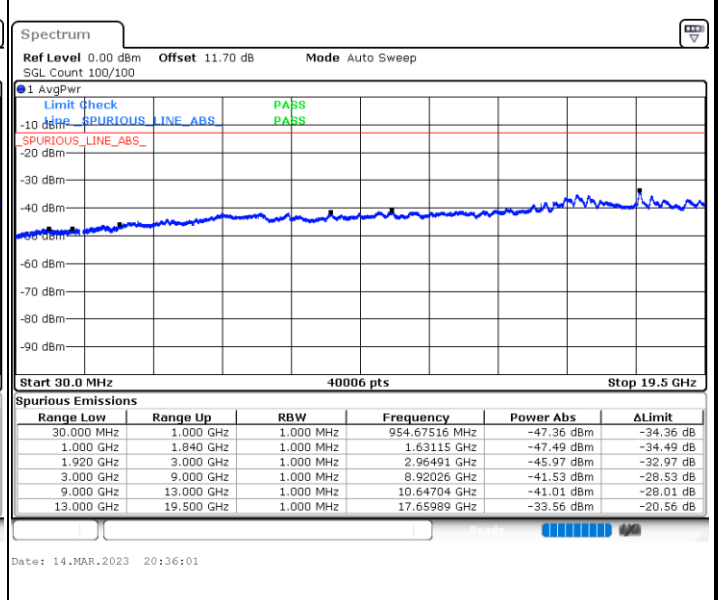


LTE Band 2 / 10MHz

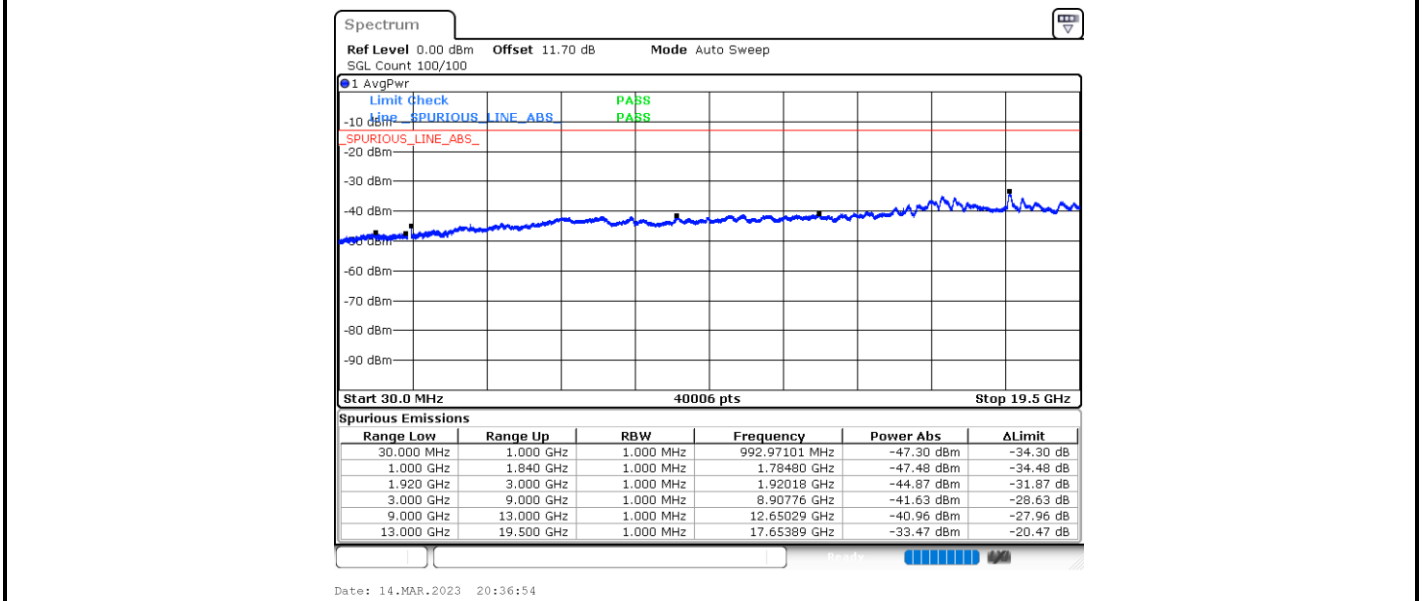
Lowest Channel / QPSK



Middle Channel / QPSK



Highest Channel / QPSK

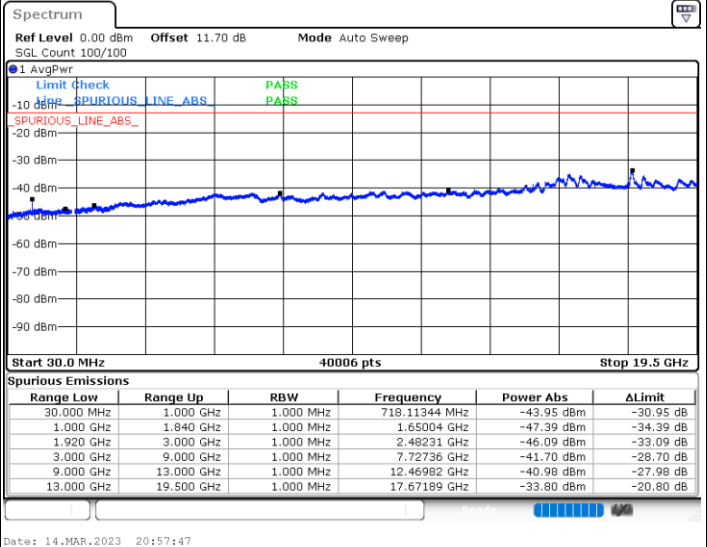
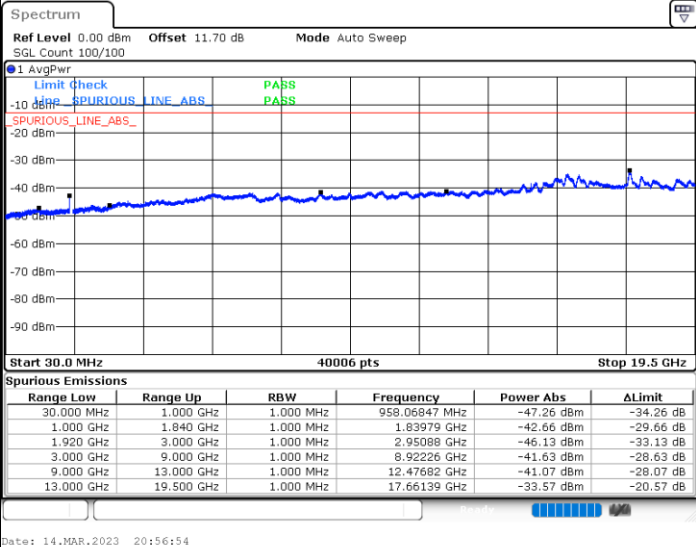




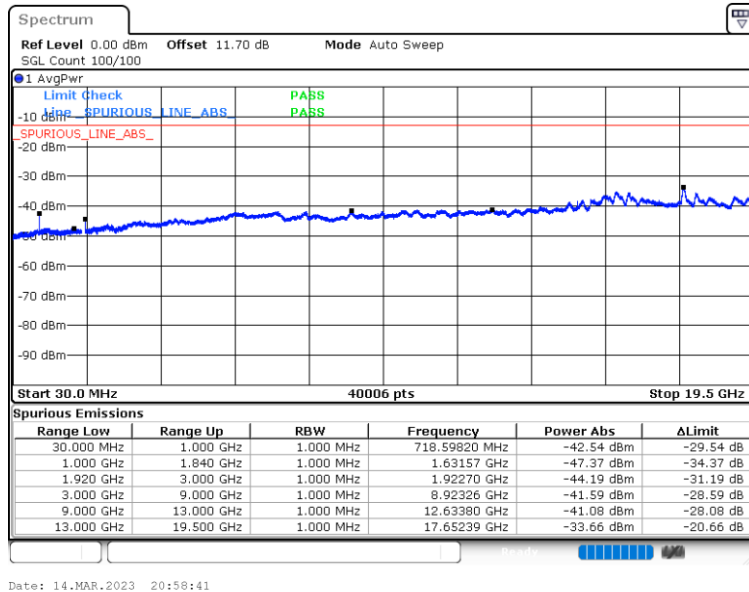
LTE Band 2 / 15MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

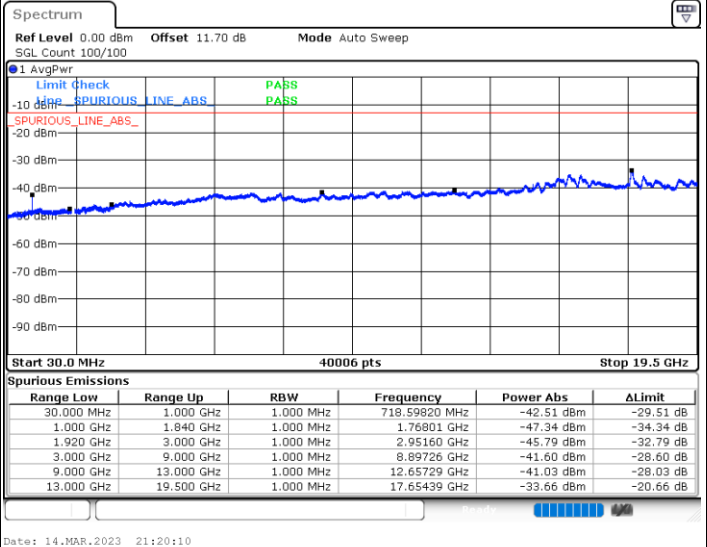
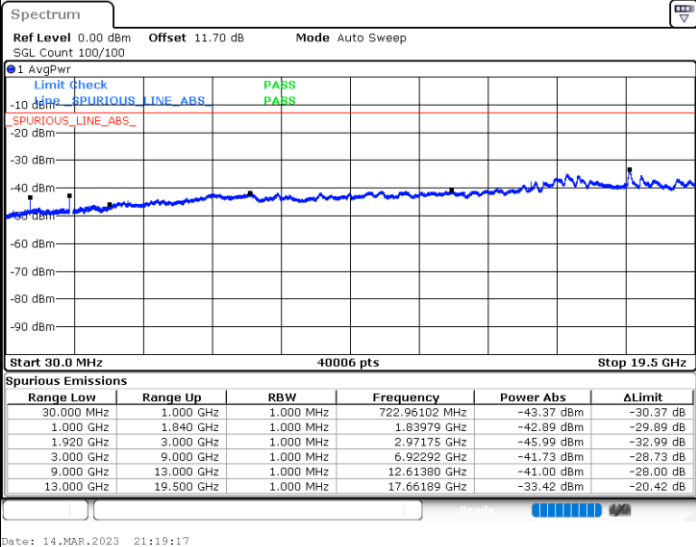




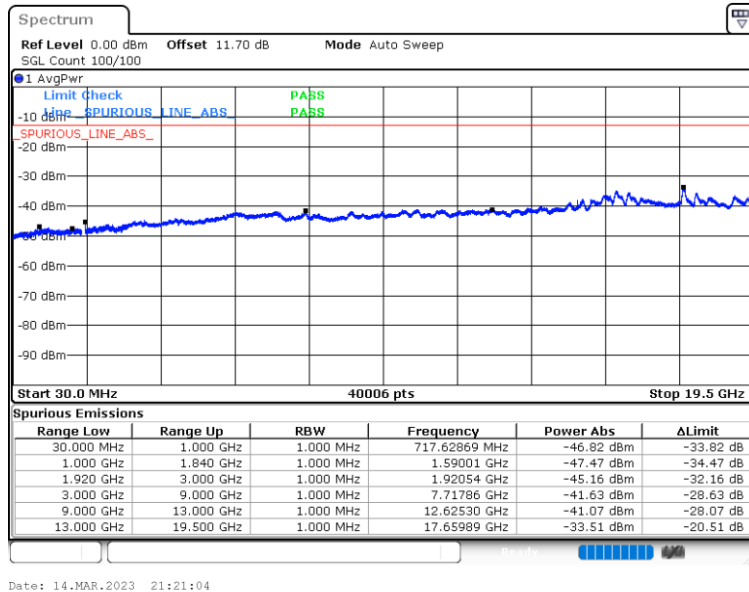
LTE Band 2 / 20MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 2 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0069	PASS
40	Normal Voltage	0.0046	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0034	
0	Normal Voltage	0.0047	
-10	Normal Voltage	0.0006	
-20	Normal Voltage	0.0018	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0033	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

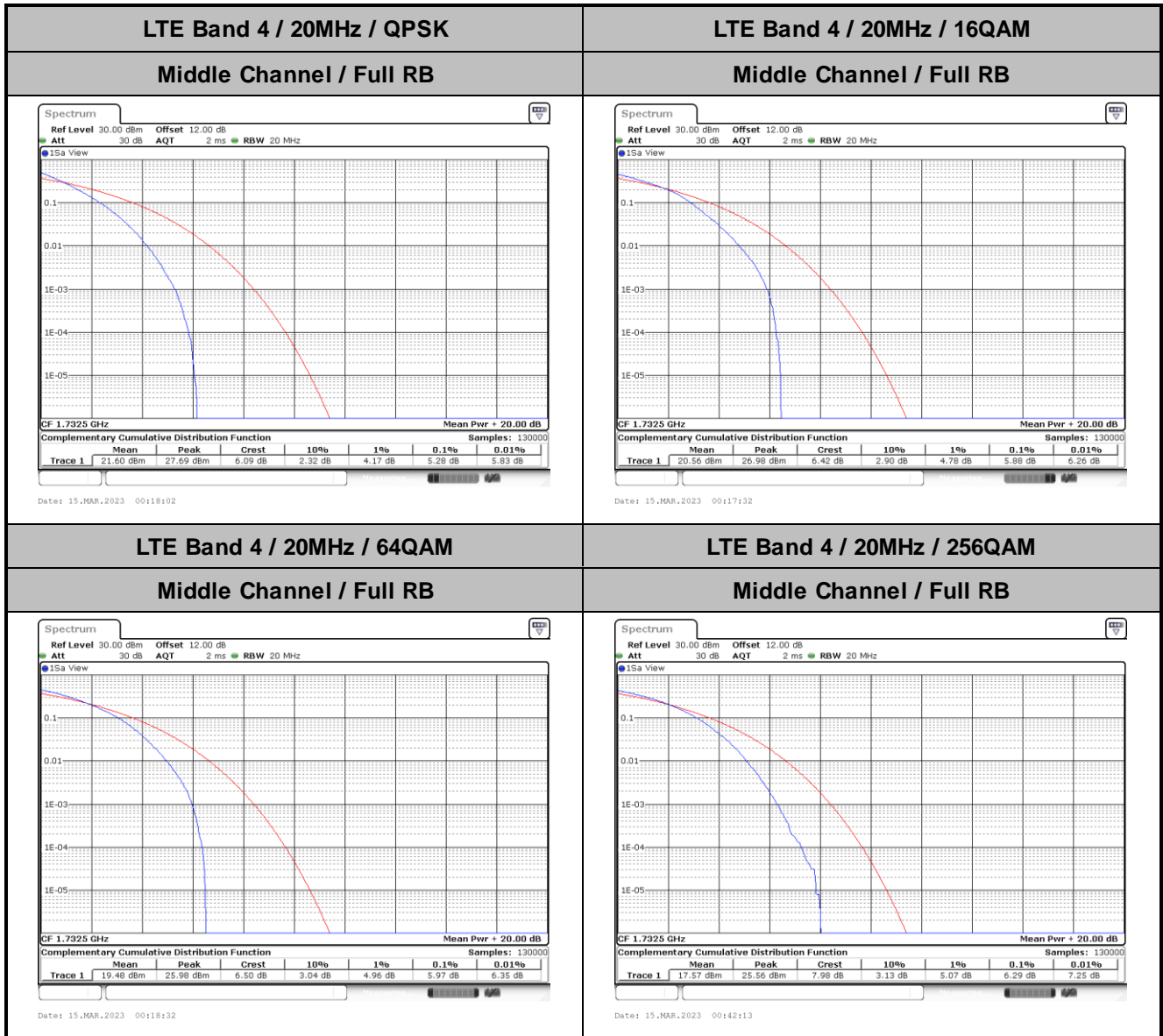
1. Normal Voltage = 3.89 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.4 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 4

Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.28	5.88	5.97	6.29	PASS





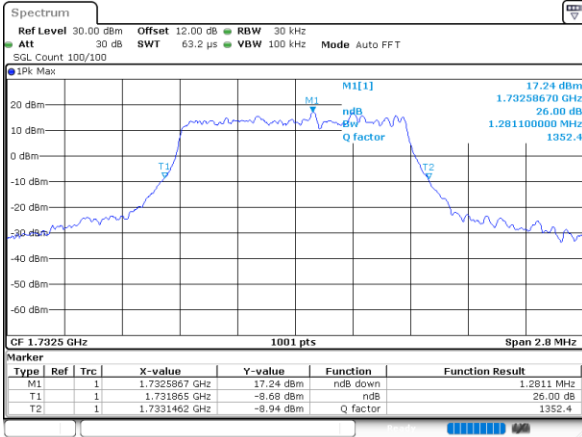
26dB Bandwidth

Mode	LTE Band 4 : 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	1.28	1.35	3.12	3.16	5.11	5.25	9.99	10.49	14.84	14.67	19.38	19.26
Mode	LTE Band 4 : 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	1.31	1.32	3.08	3.05	5.09	5.08	9.81	10.33	14.66	14.69	19.42	19.66



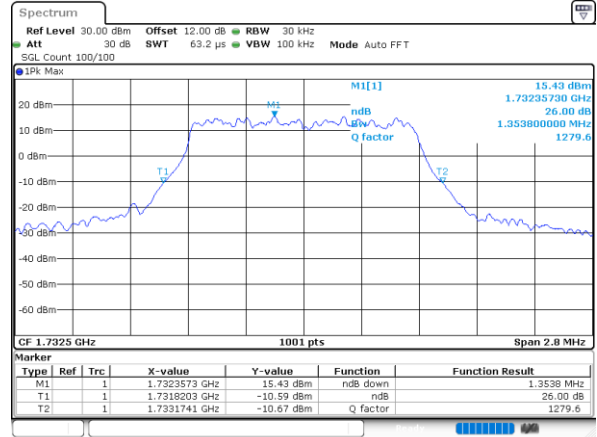
LTE Band 4

Middle Channel / 1.4MHz / QPSK



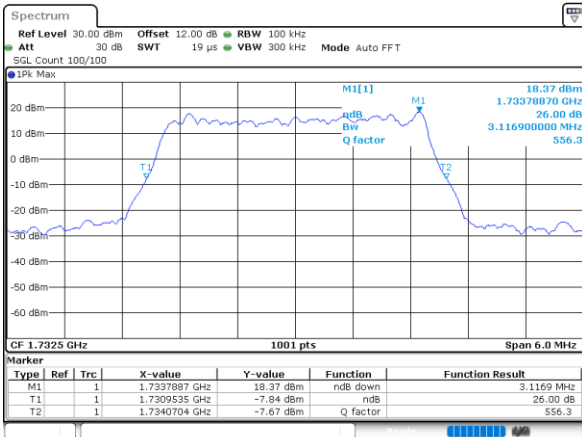
Date: 14.MAR.2023 22:23:27

Middle Channel / 1.4MHz / 16QAM



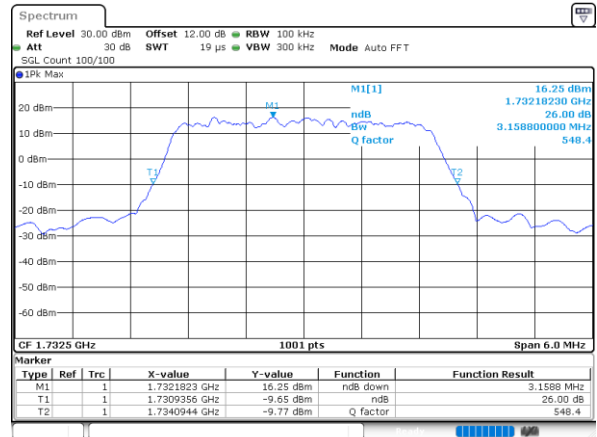
Date: 14.MAR.2023 22:23:56

Middle Channel / 3MHz / QPSK



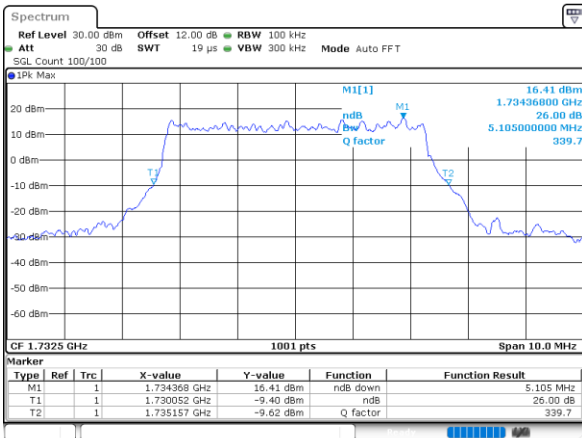
Date: 14.MAR.2023 23:01:51

Middle Channel / 3MHz / 16QAM



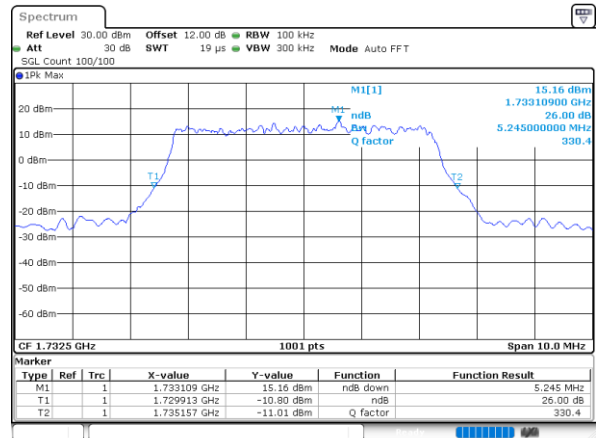
Date: 14.MAR.2023 23:02:20

Middle Channel / 5MHz / QPSK



Date: 14.MAR.2023 23:22:53

Middle Channel / 5MHz / 16QAM

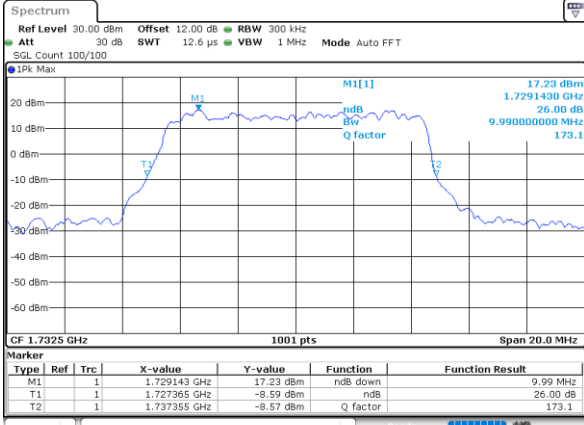


Date: 14.MAR.2023 23:23:22



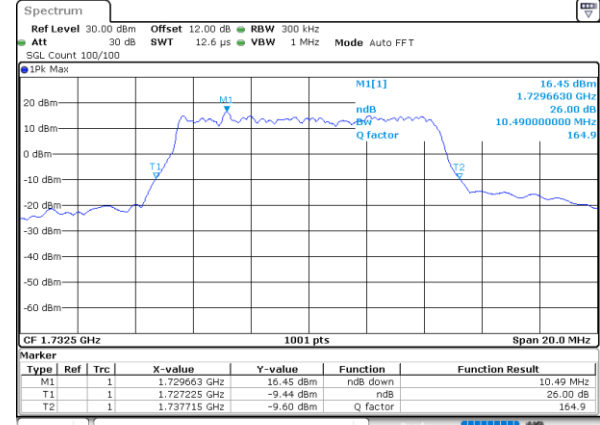
LTE Band 4

Middle Channel / 10MHz / QPSK



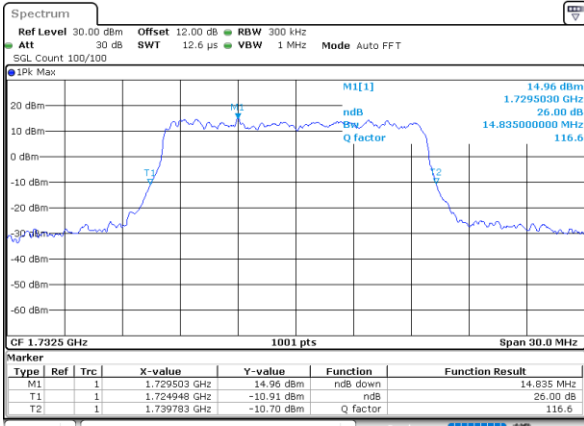
Date: 14.MAR.2023 23:30:09

Middle Channel / 10MHz / 16QAM



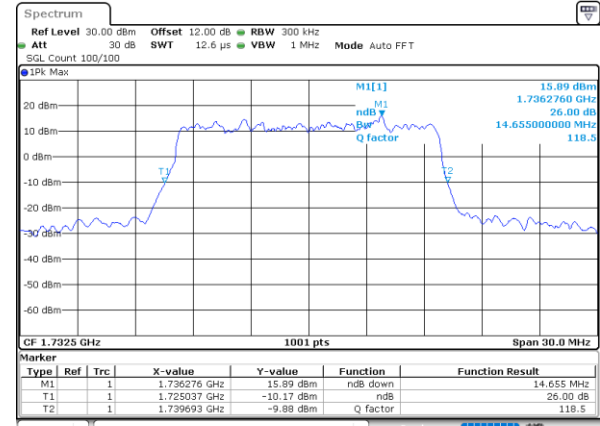
Date: 14.MAR.2023 23:30:37

Middle Channel / 15MHz / QPSK



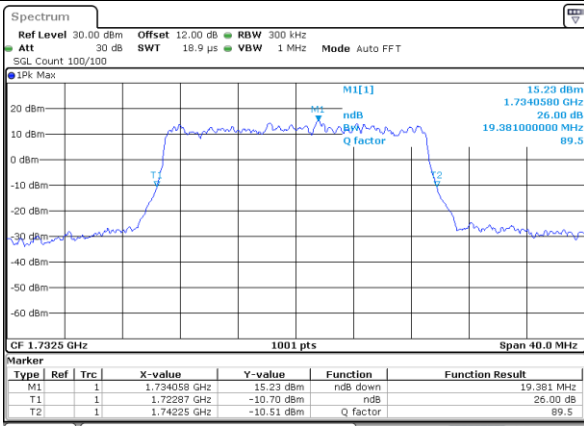
Date: 14.MAR.2023 23:45:47

Middle Channel / 15MHz / 16QAM



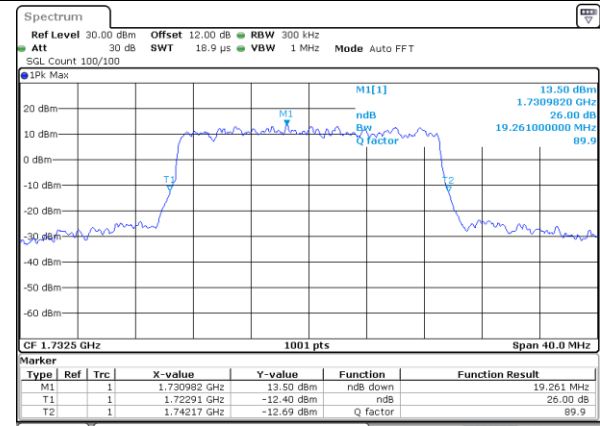
Date: 14.MAR.2023 23:46:19

Middle Channel / 20MHz / QPSK



Date: 15.MAR.2023 00:07:32

Middle Channel / 20MHz / 16QAM

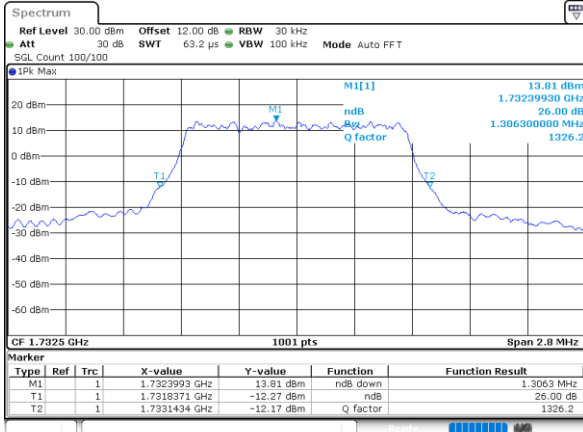


Date: 15.MAR.2023 00:08:06



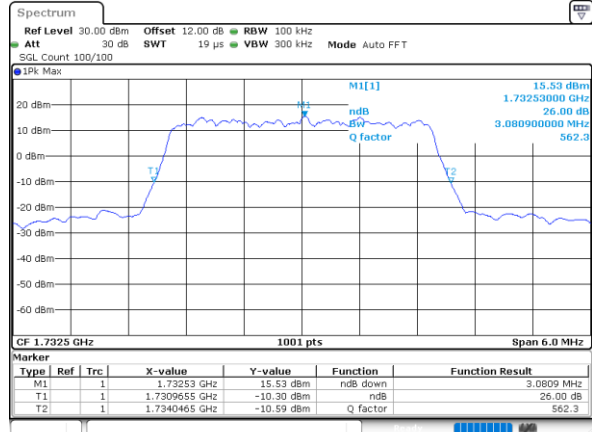
LTE Band 4

Middle Channel / 1.4MHz / 64QAM



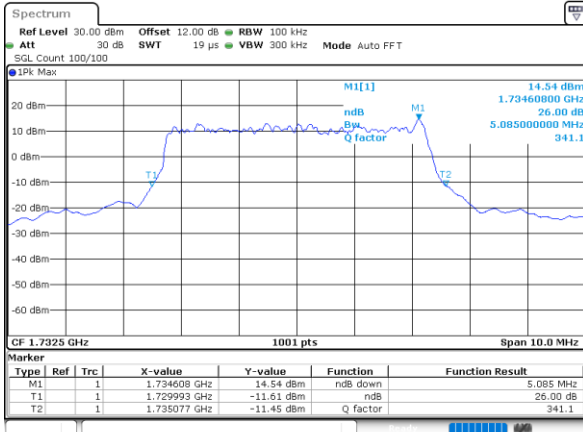
Date: 14.MAR.2023 22:34:31

Middle Channel / 3MHz / 64QAM



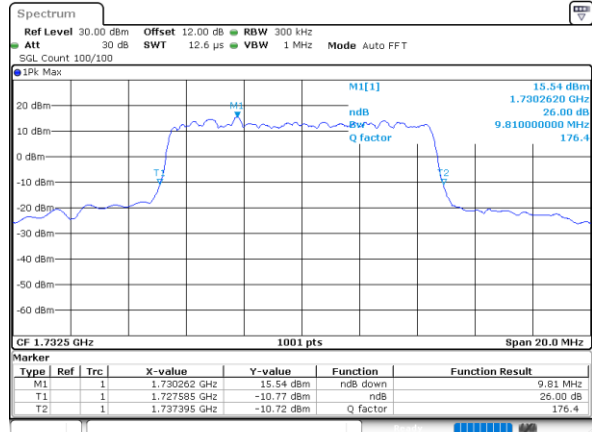
Date: 14.MAR.2023 23:06:59

Middle Channel / 5MHz / 64QAM



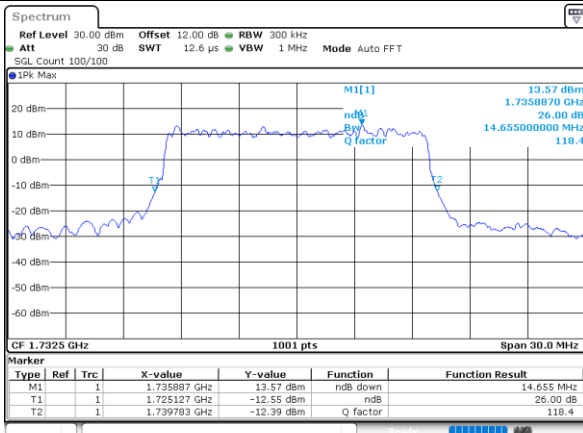
Date: 14.MAR.2023 23:14:11

Middle Channel / 10MHz / 64QAM



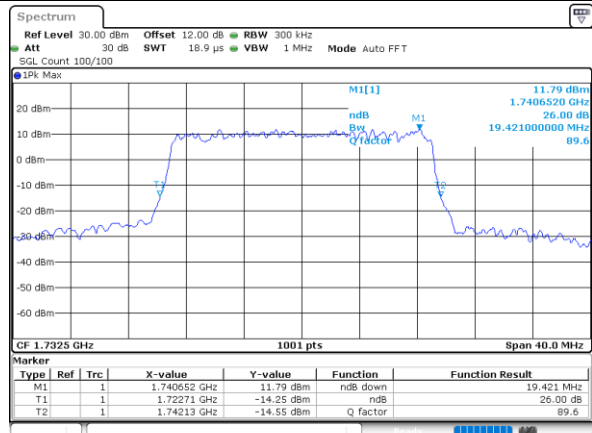
Date: 14.MAR.2023 23:35:16

Middle Channel / 15MHz / 64QAM



Date: 14.MAR.2023 23:53:56

Middle Channel / 20MHz / 64QAM

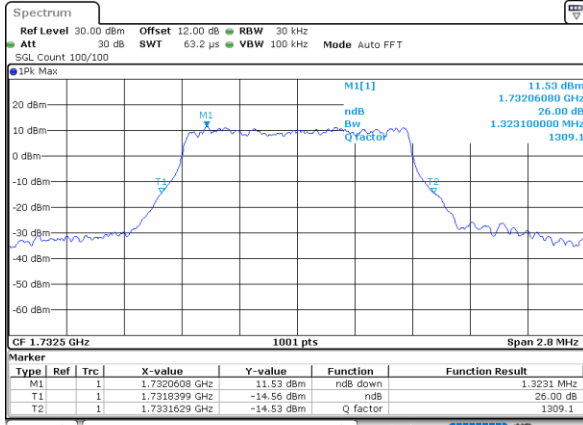


Date: 15.MAR.2023 00:15:43



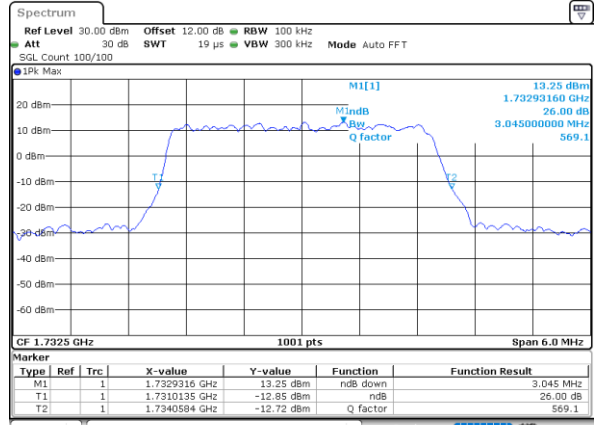
LTE Band 4

Middle Channel / 1.4MHz / 256QAM



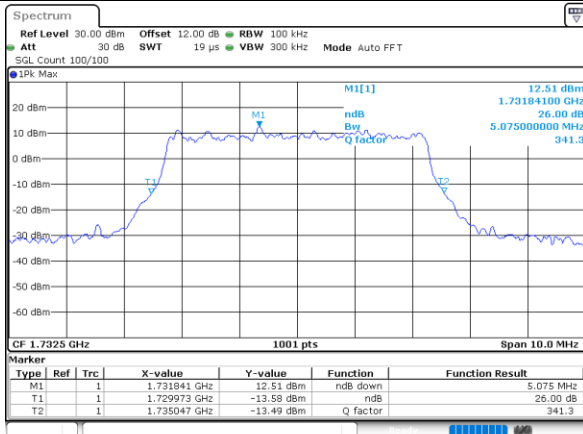
Date: 15.MAR.2023 00:21:59

Middle Channel / 3MHz / 256QAM



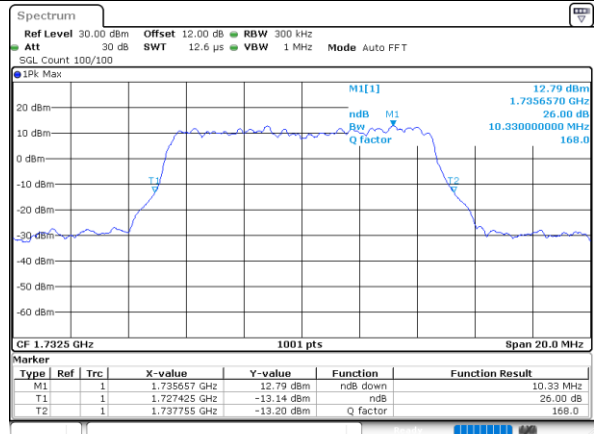
Date: 15.MAR.2023 00:26:43

Middle Channel / 5MHz / 256QAM



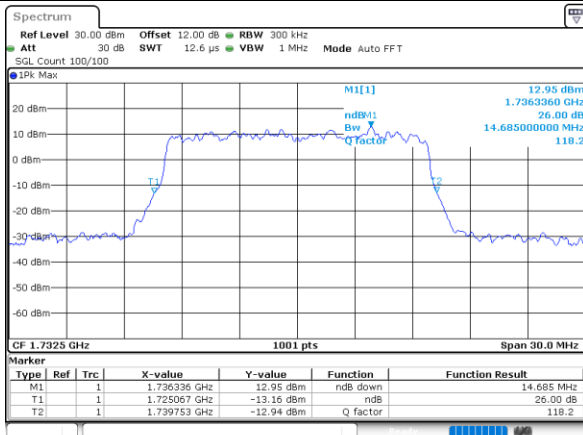
Date: 15.MAR.2023 00:30:09

Middle Channel / 10MHz / 256QAM



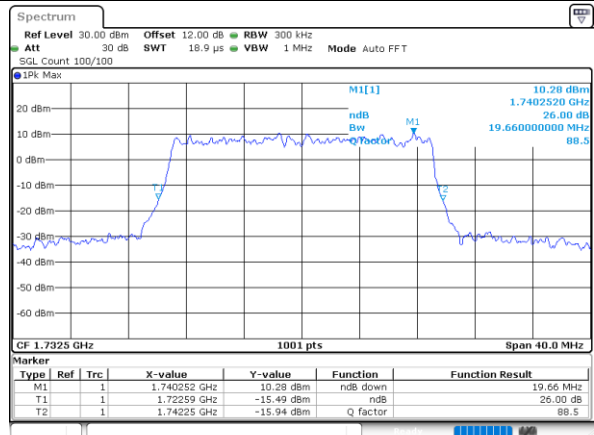
Date: 15.MAR.2023 00:33:34

Middle Channel / 15MHz / 256QAM



Date: 15.MAR.2023 00:36:58

Middle Channel / 20MHz / 256QAM



Date: 15.MAR.2023 00:40:24



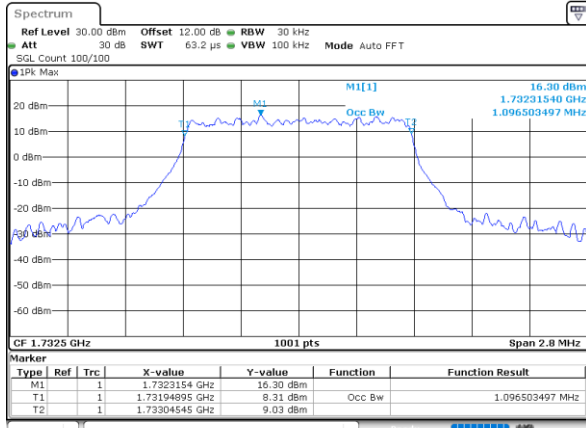
Occupied Bandwidth

Mode	LTE Band 4 : 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	1.10	1.10	2.74	2.75	4.54	4.51	9.07	8.97	13.43	13.40	17.94	17.86
Mode	LTE Band 4 : 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	1.09	1.09	2.74	2.70	4.50	4.49	9.13	9.05	13.37	13.40	17.90	17.90



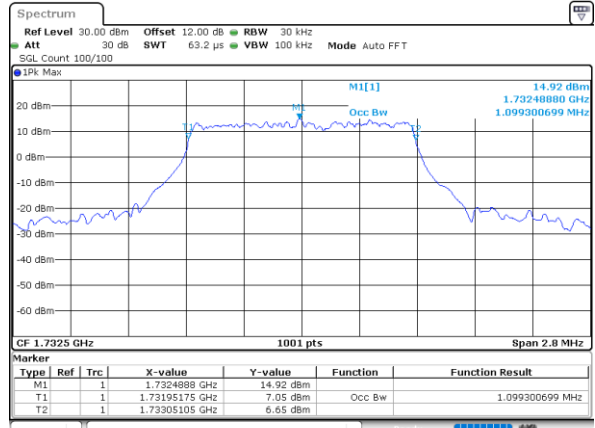
LTE Band 4

Middle Channel / 1.4MHz / QPSK



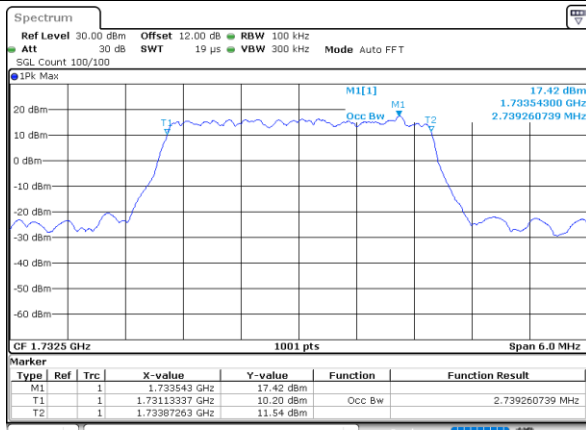
Date: 14.MAR.2023 22:22:27

Middle Channel / 1.4MHz / 16QAM



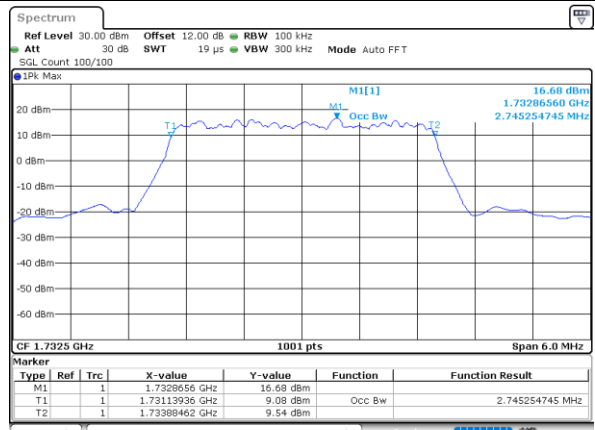
Date: 14.MAR.2023 22:22:57

Middle Channel / 3MHz / QPSK



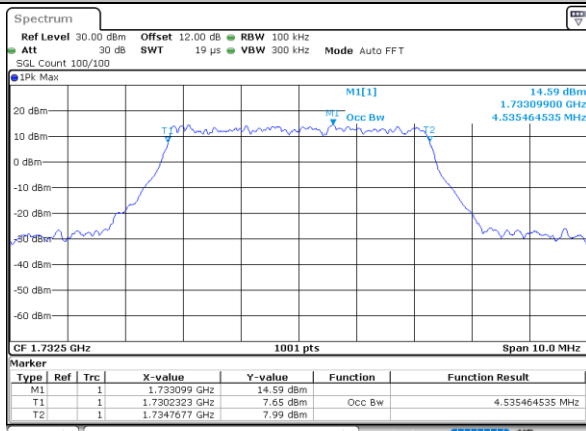
Date: 14.MAR.2023 22:57:59

Middle Channel / 3MHz / 16QAM



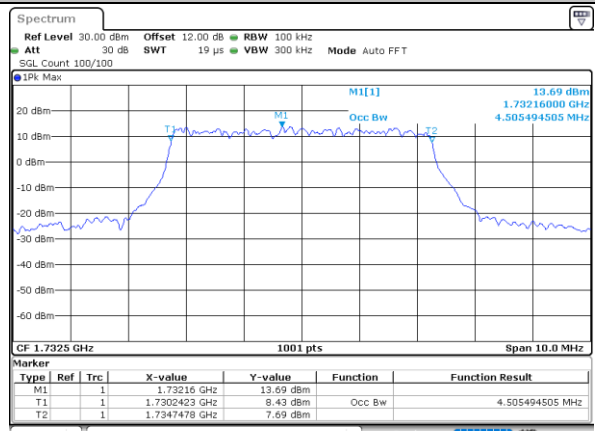
Date: 14.MAR.2023 22:58:28

Middle Channel / 5MHz / QPSK



Date: 14.MAR.2023 23:21:47

Middle Channel / 5MHz / 16QAM

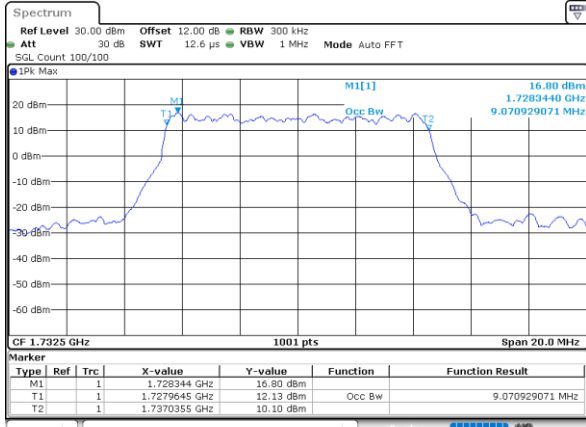


Date: 14.MAR.2023 23:22:16



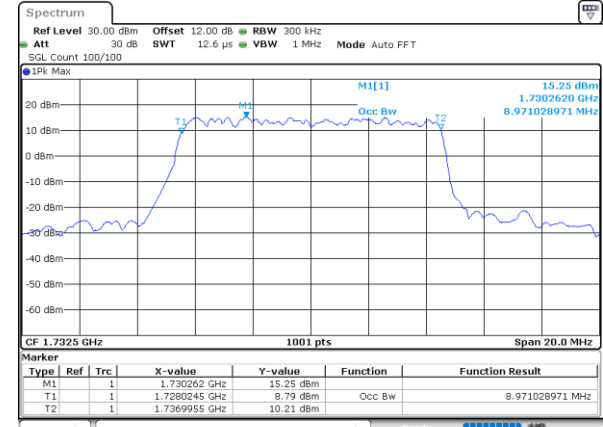
LTE Band 4

Middle Channel / 10MHz / QPSK



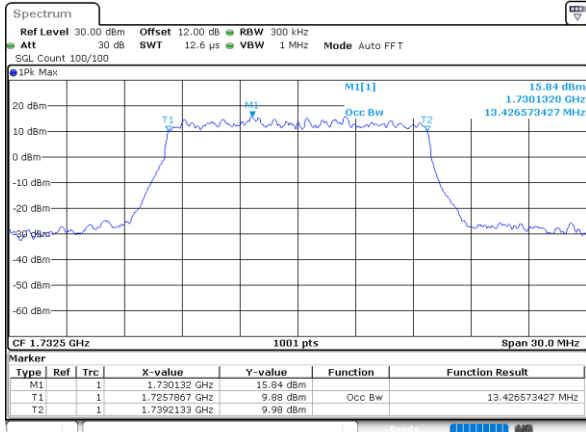
Date: 14.MAR.2023 23:29:11

Middle Channel / 10MHz / 16QAM



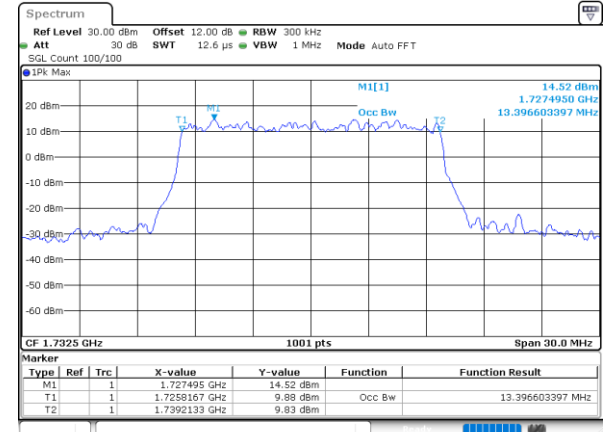
Date: 14.MAR.2023 23:29:40

Middle Channel / 15MHz / QPSK



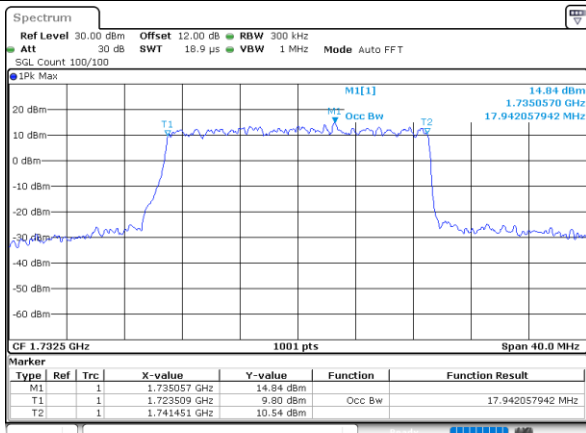
Date: 14.MAR.2023 23:44:48

Middle Channel / 15MHz / 16QAM



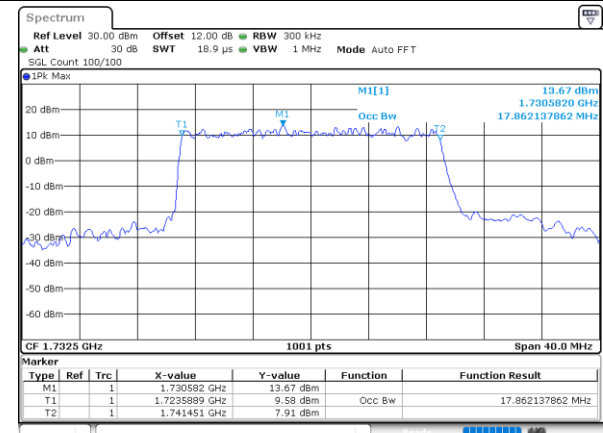
Date: 14.MAR.2023 23:45:18

Middle Channel / 20MHz / QPSK



Date: 15.MAR.2023 00:06:33

Middle Channel / 20MHz / 16QAM

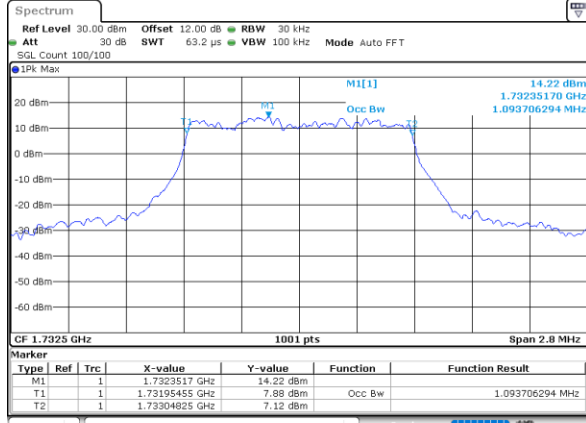


Date: 15.MAR.2023 00:07:03



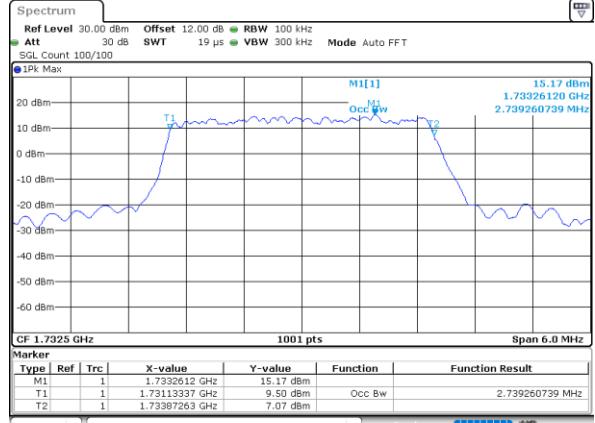
LTE Band 4

Middle Channel / 1.4MHz / 64QAM



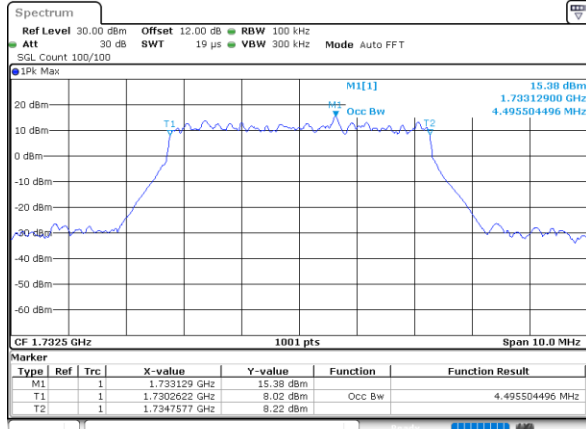
Date: 14.MAR.2023 22:34:17

Middle Channel / 3MHz / 64QAM



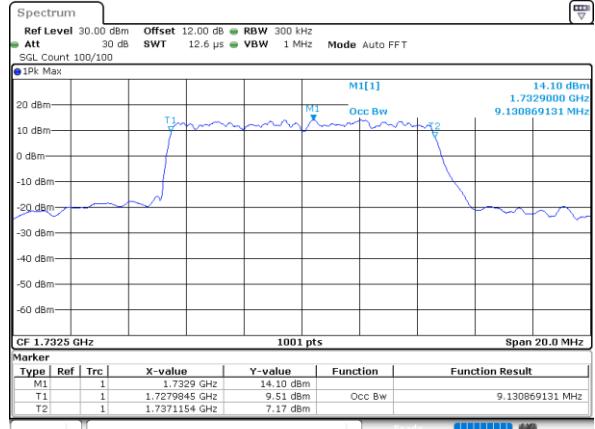
Date: 14.MAR.2023 23:06:45

Middle Channel / 5MHz / 64QAM



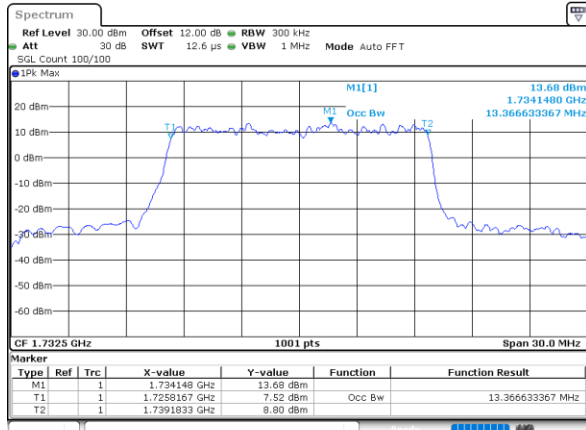
Date: 14.MAR.2023 23:13:57

Middle Channel / 10MHz / 64QAM



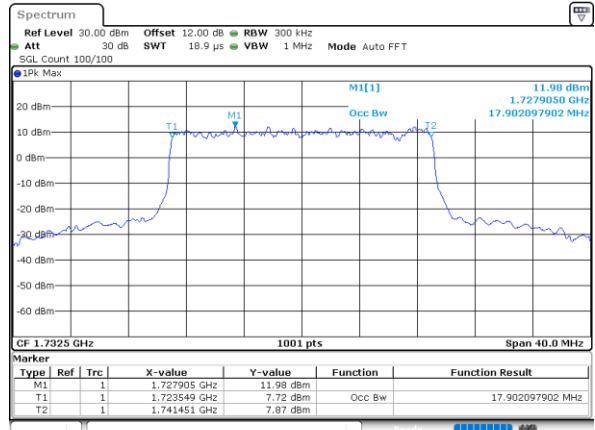
Date: 14.MAR.2023 23:35:02

Middle Channel / 15MHz / 64QAM



Date: 14.MAR.2023 23:53:42

Middle Channel / 20MHz / 64QAM

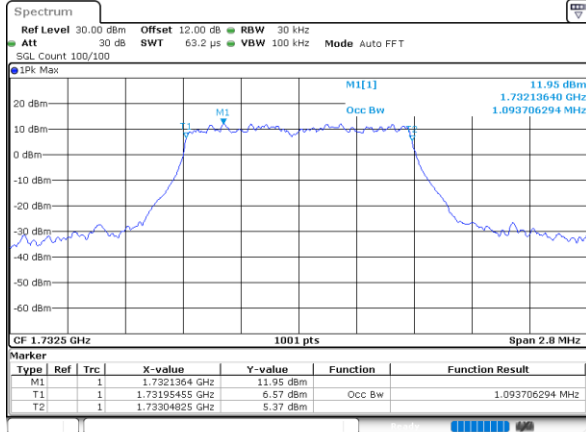


Date: 15.MAR.2023 00:15:29



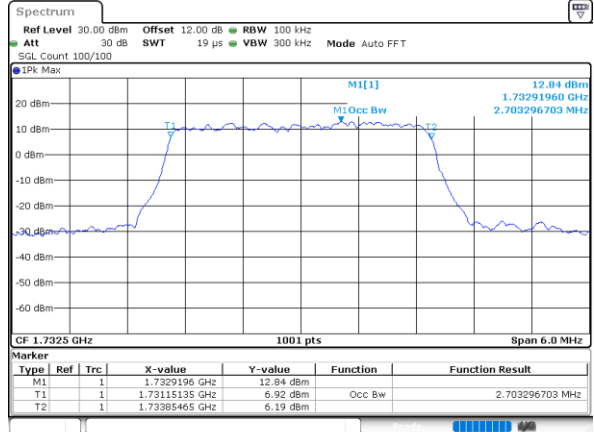
LTE Band 4

Middle Channel / 1.4MHz / 256QAM



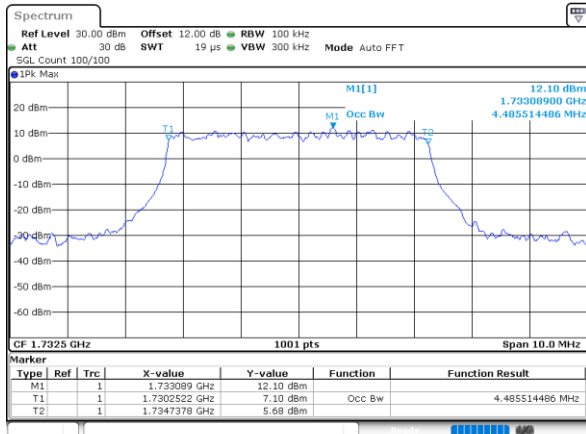
Date: 15.MAR.2023 00:21:44

Middle Channel / 3MHz / 256QAM



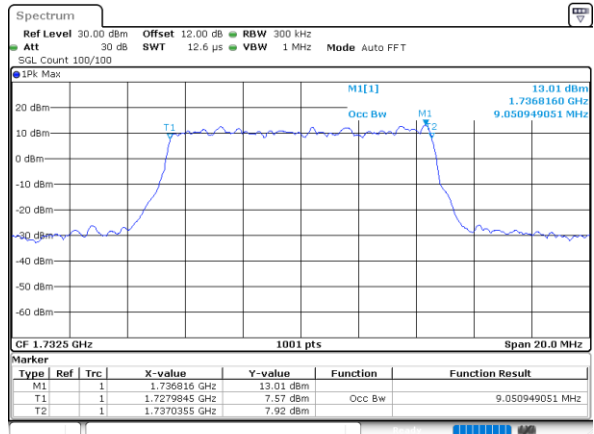
Date: 15.MAR.2023 00:26:29

Middle Channel / 5MHz / 256QAM



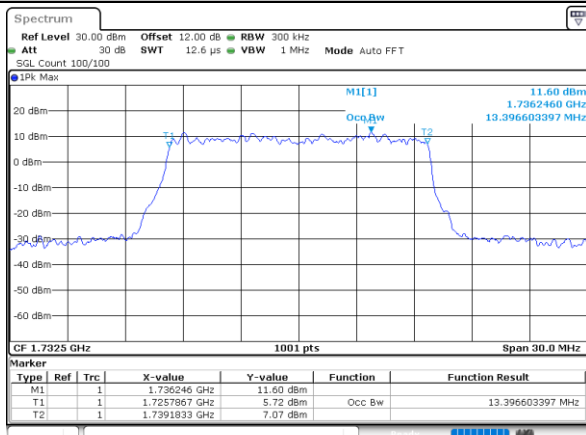
Date: 15.MAR.2023 00:29:55

Middle Channel / 10MHz / 256QAM



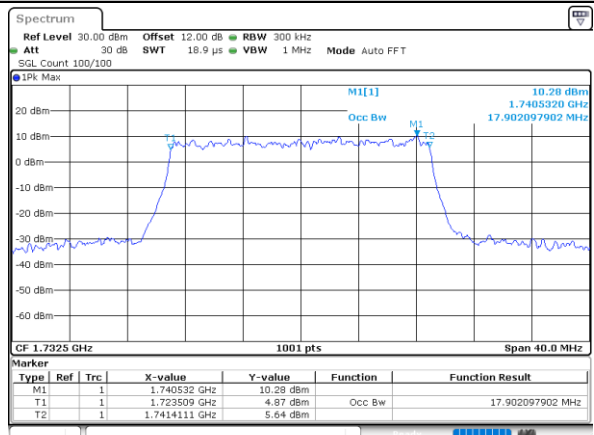
Date: 15.MAR.2023 00:33:20

Middle Channel / 15MHz / 256QAM



Date: 15.MAR.2023 00:36:44

Middle Channel / 20MHz / 256QAM



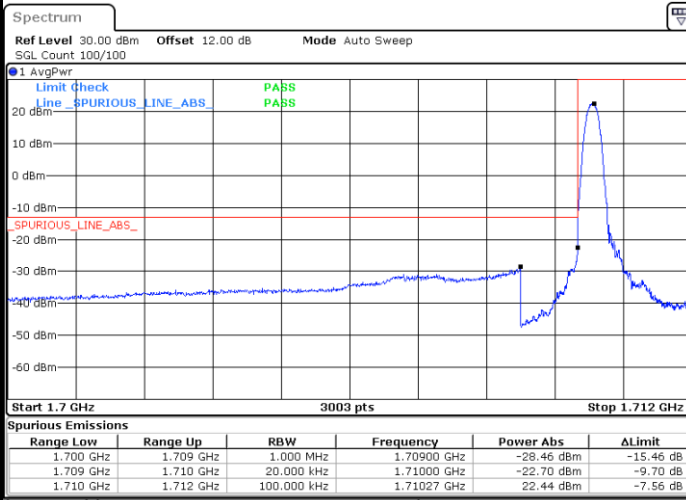
Date: 15.MAR.2023 00:40:10



Conducted Band Edge

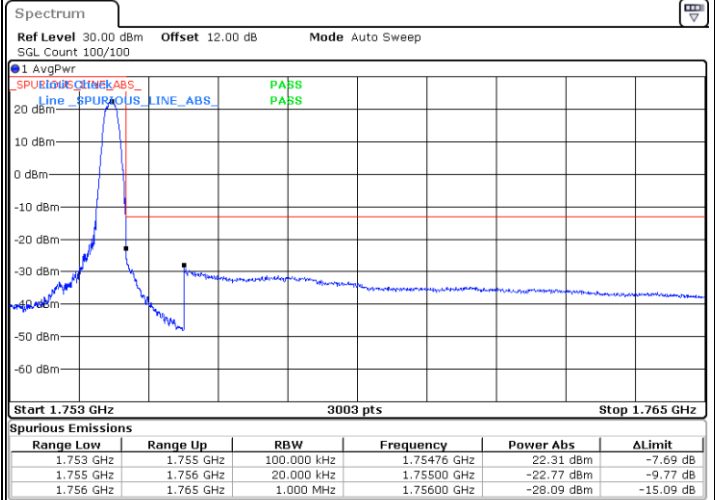
LTE Band 4 / 1.4MHz / QPSK

Lowest Band Edge / 1RB



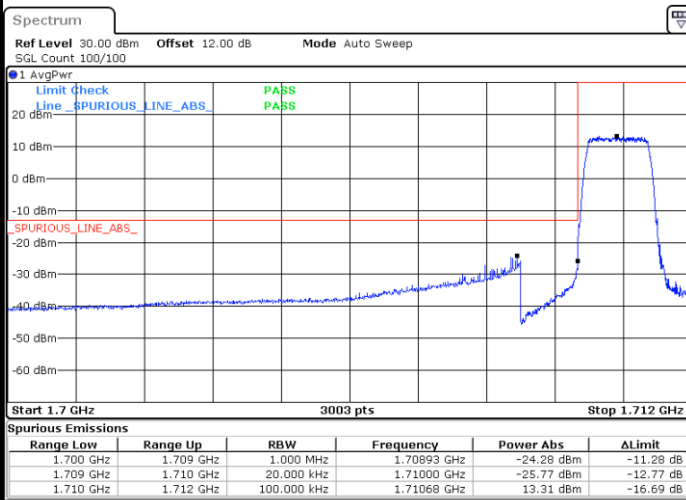
Date: 14.MAR.2023 22:17:03

Highest Band Edge / 1RB



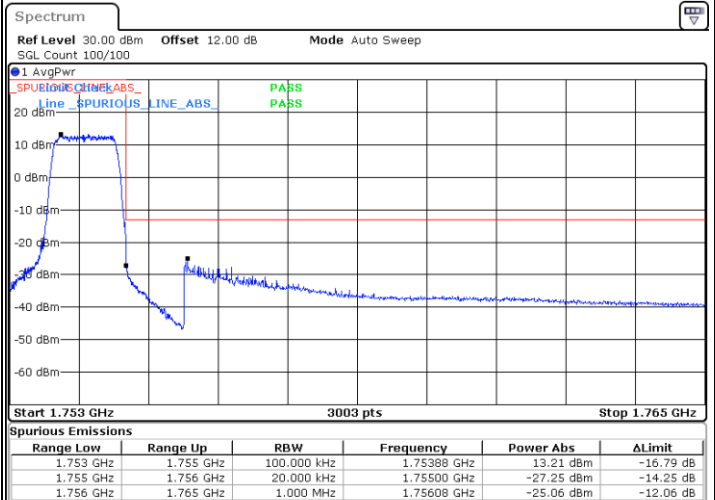
Date: 14.MAR.2023 22:26:14

Lowest Band Edge / Full RB



Date: 14.MAR.2023 22:19:41

Highest Band Edge / Full RB

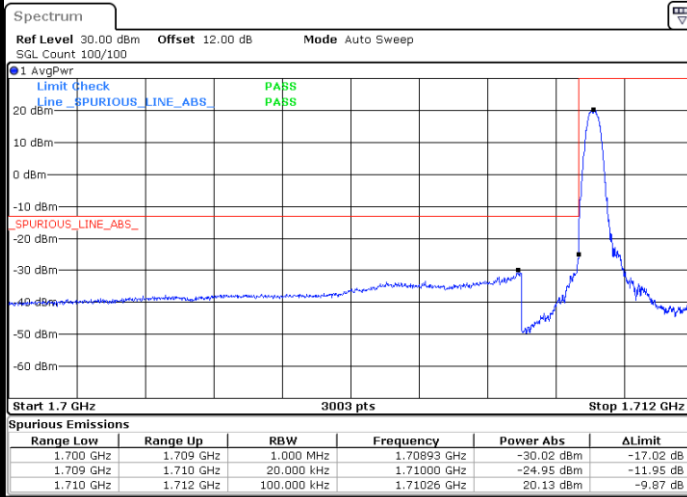


Date: 14.MAR.2023 22:28:52



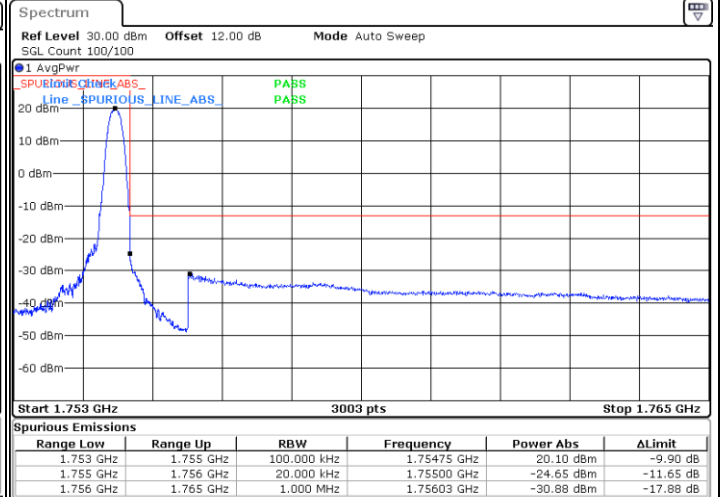
LTE Band 4 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



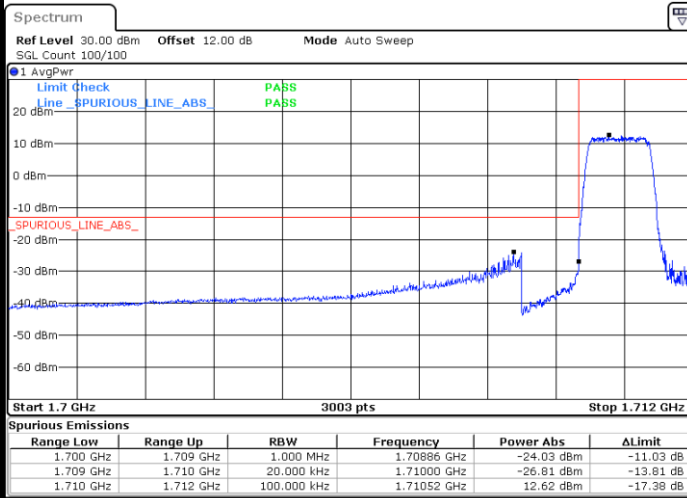
Date: 14.MAR.2023 22:18:22

Highest Band Edge / 1 RB



Date: 14.MAR.2023 22:27:33

Lowest Band Edge / Full RB



Date: 14.MAR.2023 22:20:59

Highest Band Edge / Full RB

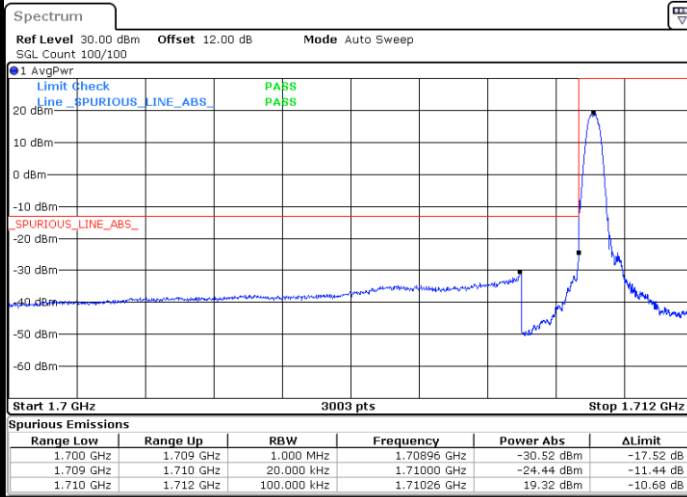


Date: 14.MAR.2023 22:30:11



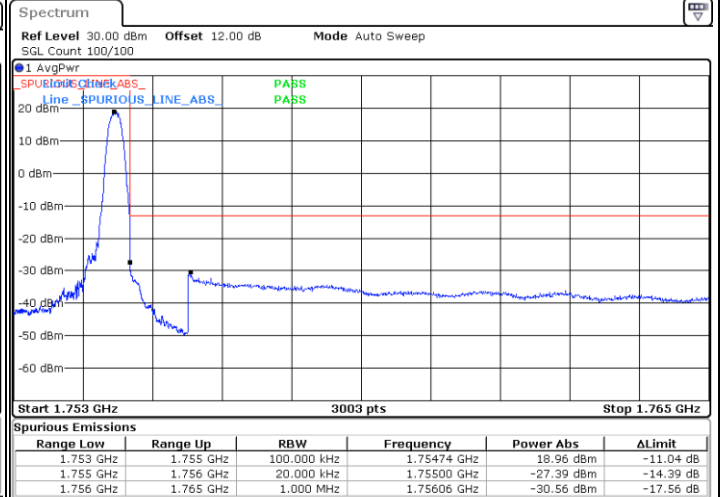
LTE Band 4 / 1.4MHz / 64QAM

Lowest Band Edge / 1 RB



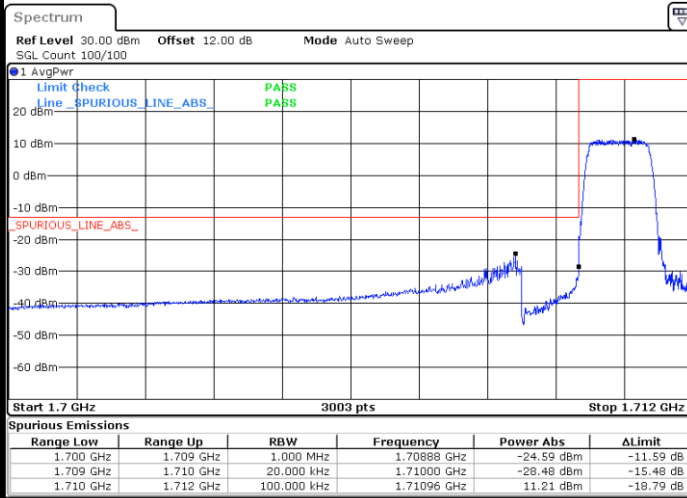
Date: 14.MAR.2023 22:32:28

Highest Band Edge / 1 RB



Date: 14.MAR.2023 22:35:51

Lowest Band Edge / Full RB



Date: 14.MAR.2023 22:33:47

Highest Band Edge / Full RB



Date: 14.MAR.2023 22:37:10