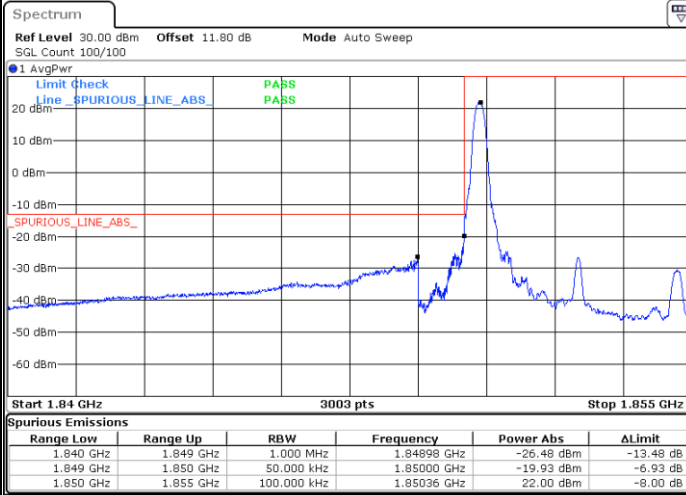




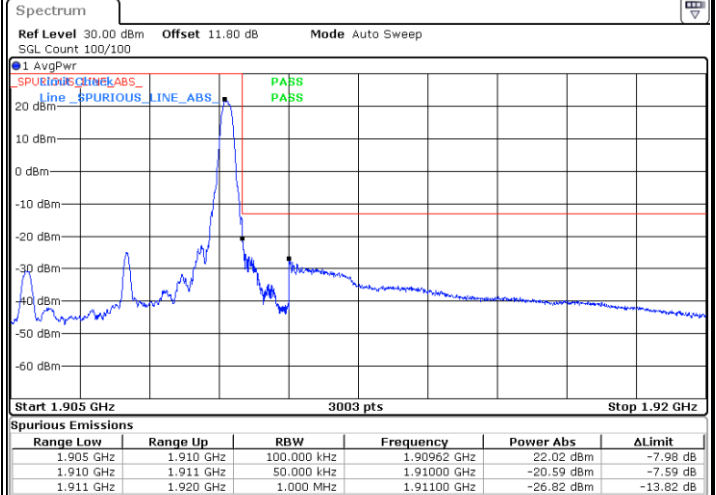
LTE Band 2 / 5MHz / 16QAM

Lowest Band Edge / 1RB



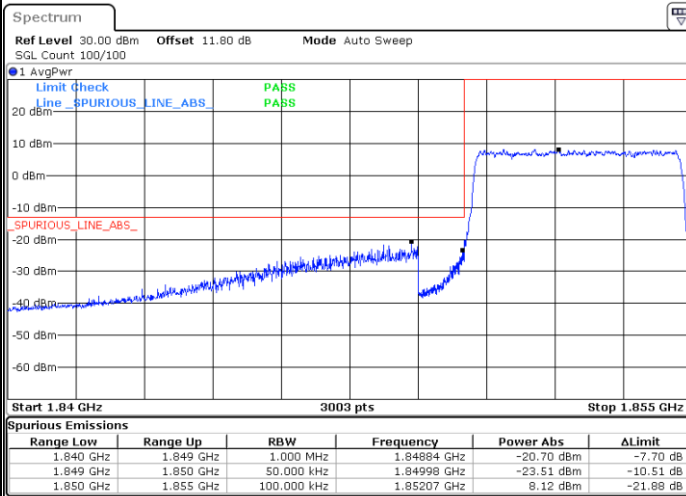
Date: 24.SEP.2022 02:22:48

Highest Band Edge / 1 RB



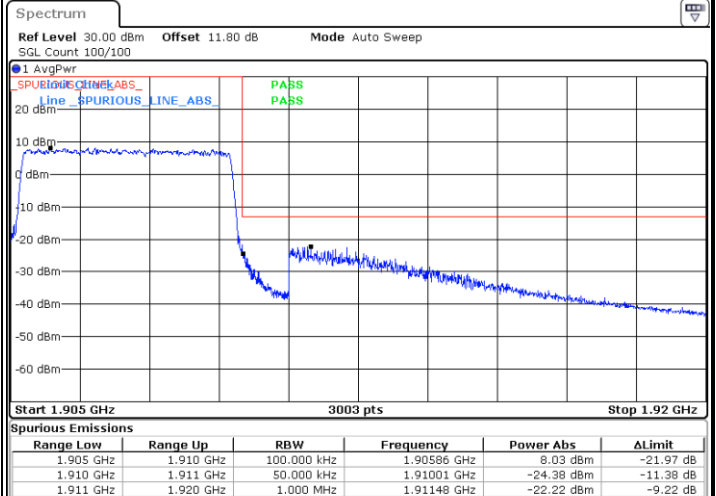
Date: 24.SEP.2022 02:31:08

Lowest Band Edge / Full RB



Date: 24.SEP.2022 02:24:40

Highest Band Edge / Full RB

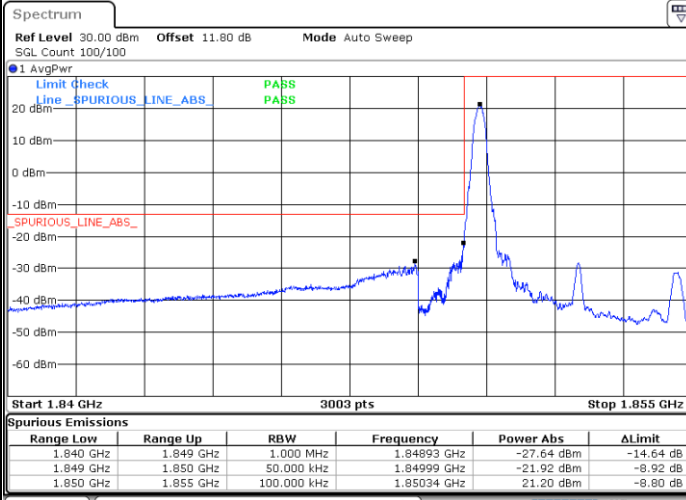


Date: 24.SEP.2022 02:33:01



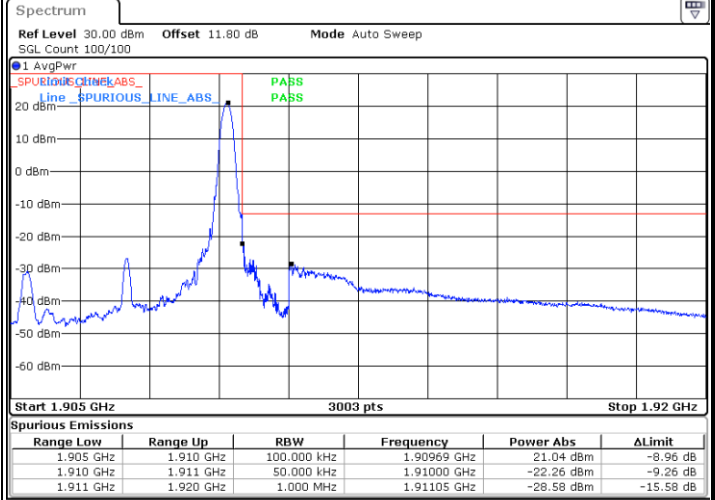
LTE Band 2 / 5MHz / 64QAM

Lowest Band Edge / 1RB



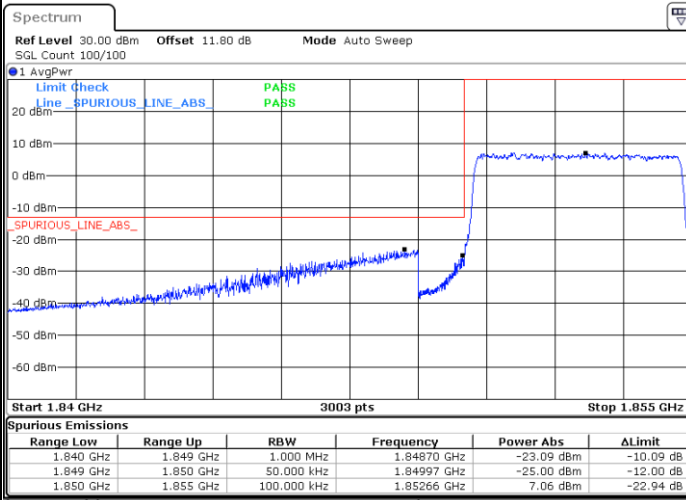
Date: 24.SEP.2022 02:35:23

Highest Band Edge / 1 RB



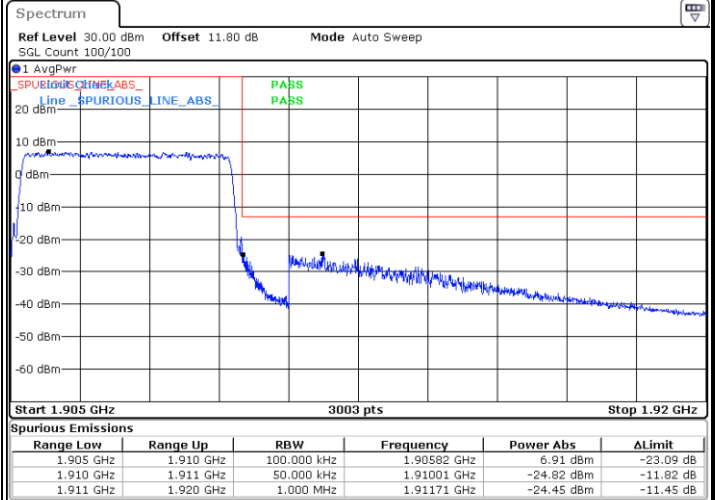
Date: 24.SEP.2022 02:37:56

Lowest Band Edge / Full RB



Date: 24.SEP.2022 02:36:20

Highest Band Edge / Full RB

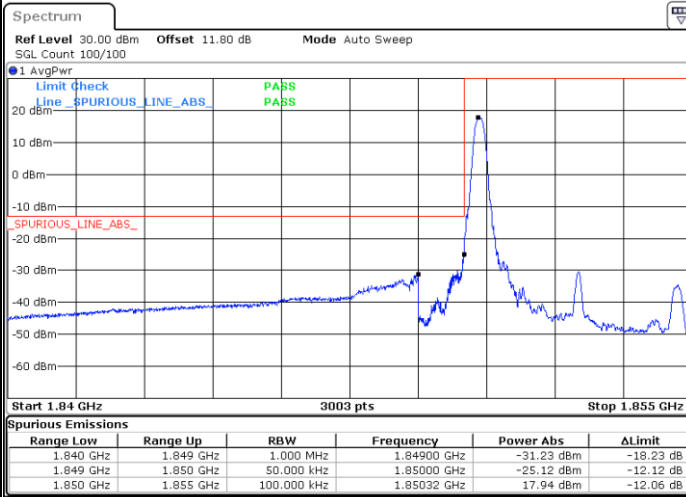


Date: 24.SEP.2022 02:38:53



LTE Band 2 / 5MHz / 256QAM

Lowest Band Edge / 1RB



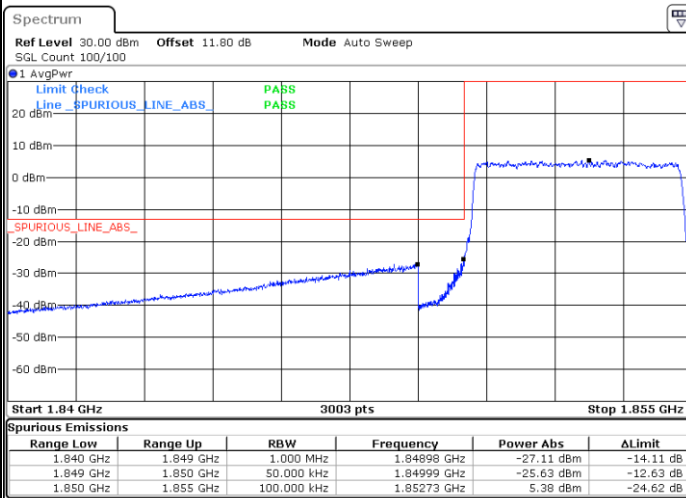
Date: 24.SEP.2022 03:48:40

Highest Band Edge / 1 RB



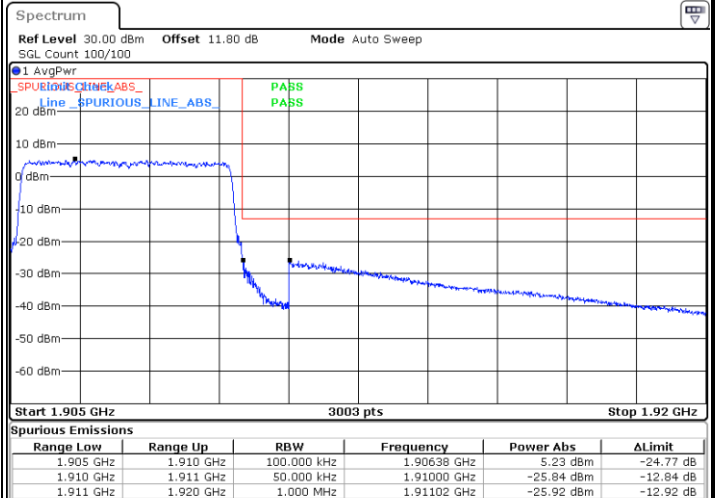
Date: 24.SEP.2022 03:51:13

Lowest Band Edge / Full RB



Date: 24.SEP.2022 03:49:37

Highest Band Edge / Full RB

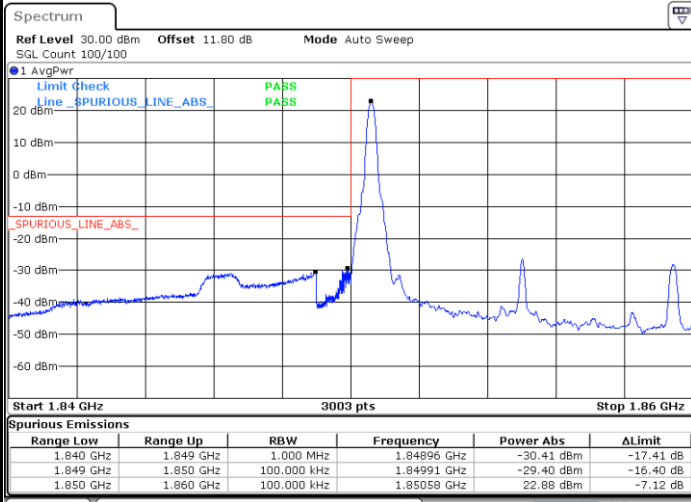


Date: 24.SEP.2022 03:52:10



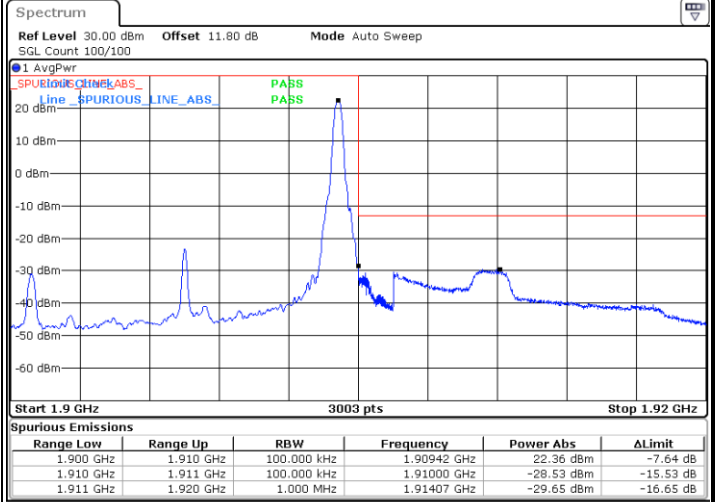
LTE Band 2 / 10MHz / QPSK

Lowest Band Edge / 1 RB



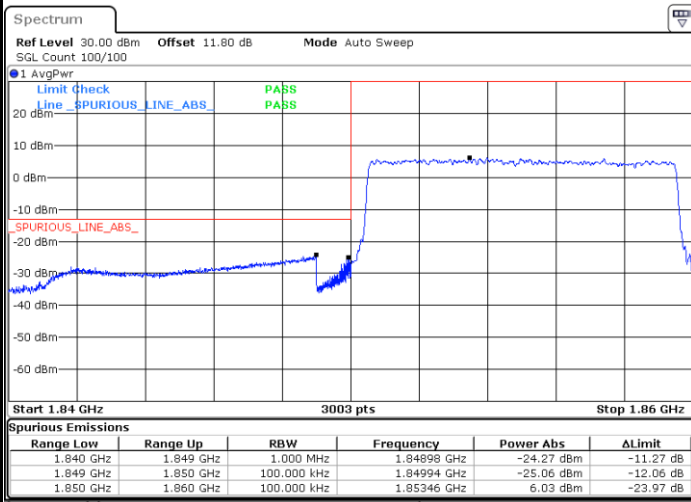
Date: 24.SEP.2022 02:40:35

Highest Band Edge / 1 RB



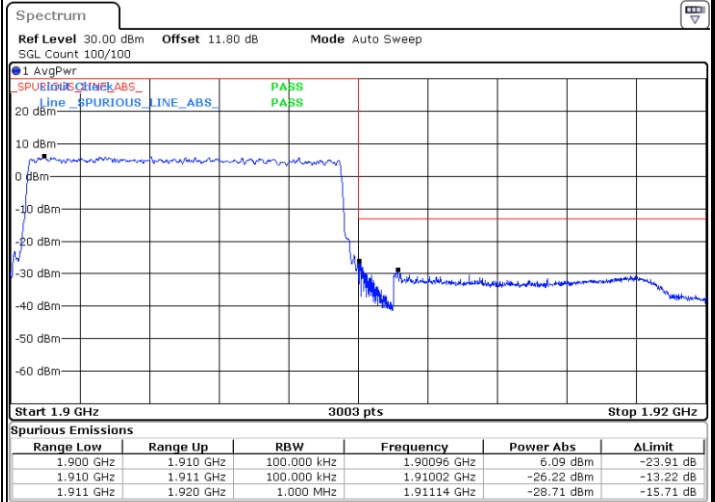
Date: 24.SEP.2022 02:48:55

Lowest Band Edge / Full RB



Date: 24.SEP.2022 02:42:28

Highest Band Edge / Full RB

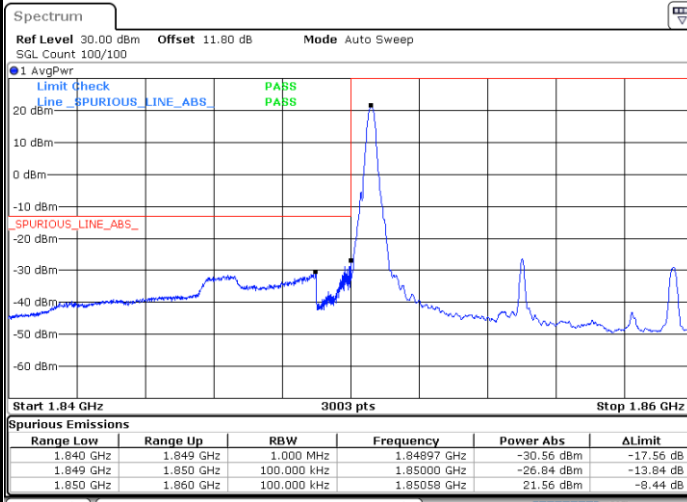


Date: 24.SEP.2022 02:50:48



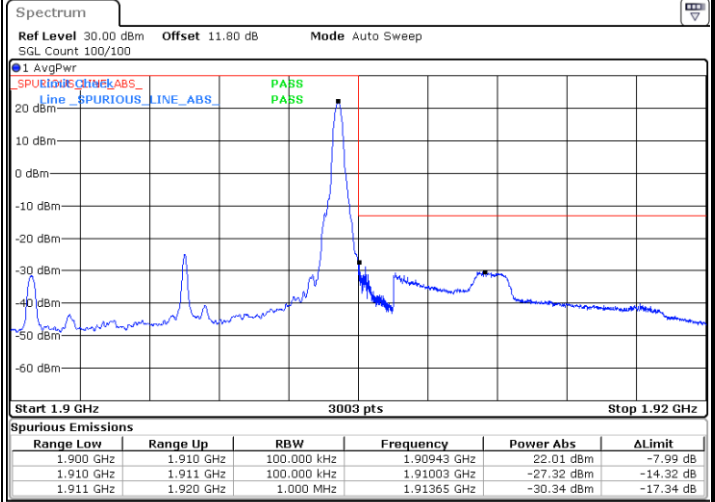
LTE Band 2 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



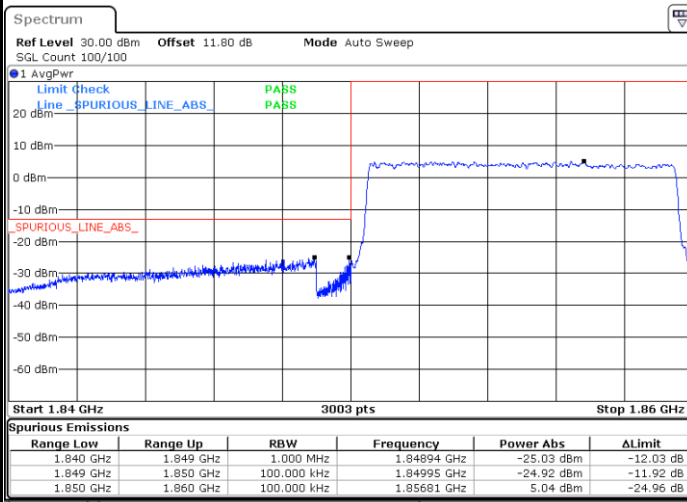
Date: 24.SEP.2022 02:41:31

Highest Band Edge / 1 RB



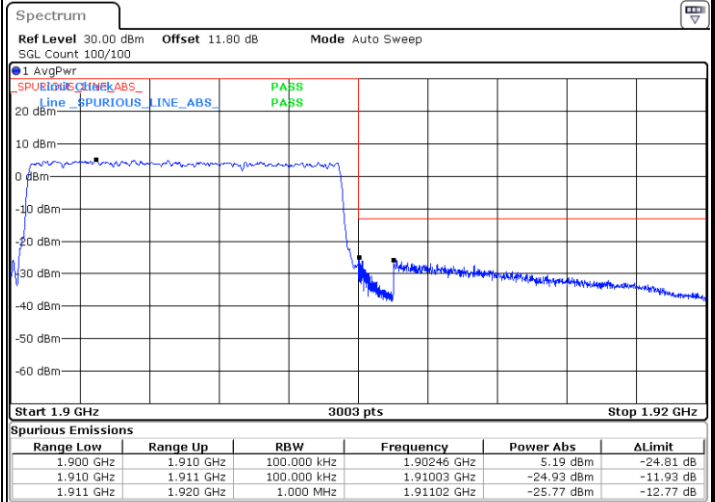
Date: 24.SEP.2022 02:49:51

Lowest Band Edge / Full RB



Date: 24.SEP.2022 02:43:24

Highest Band Edge / Full RB

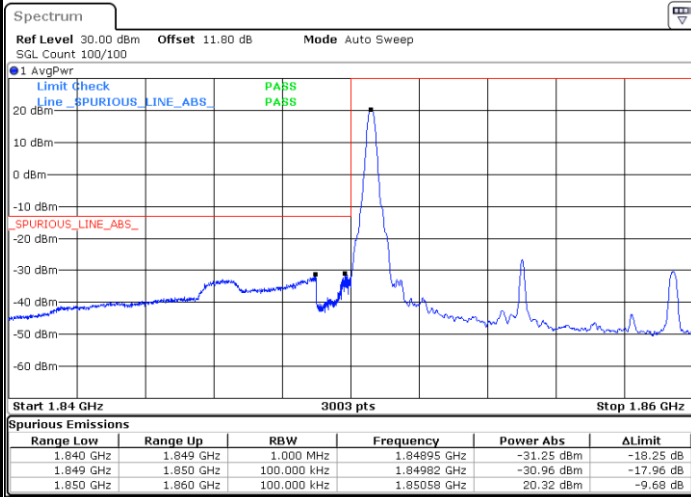


Date: 24.SEP.2022 02:51:44



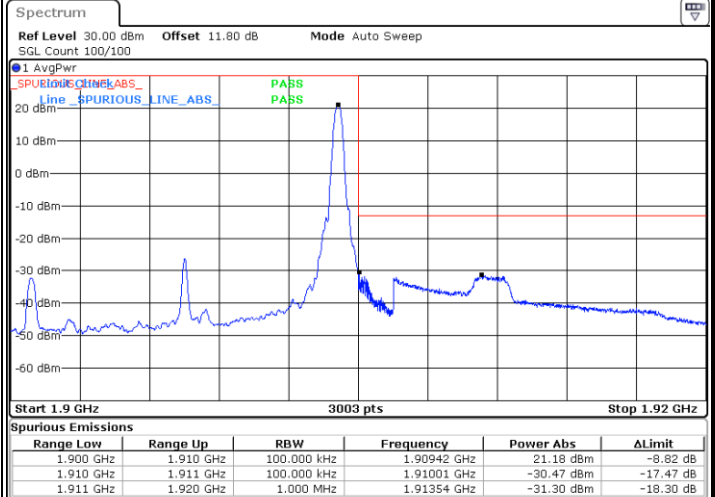
LTE Band 2 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



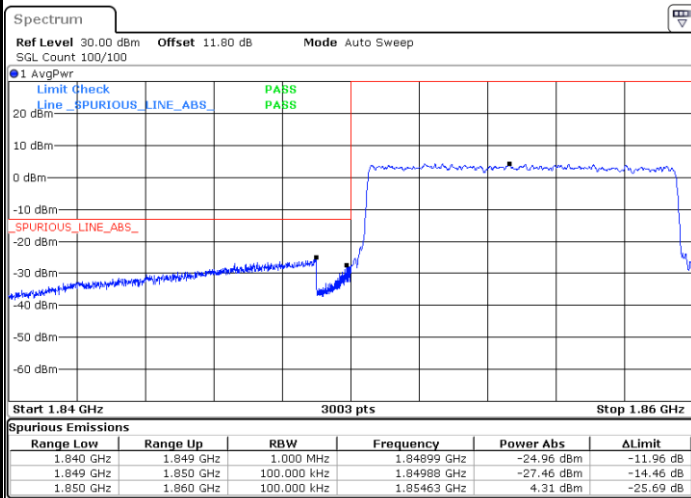
Date: 24.SEP.2022 02:54:06

Highest Band Edge / 1 RB



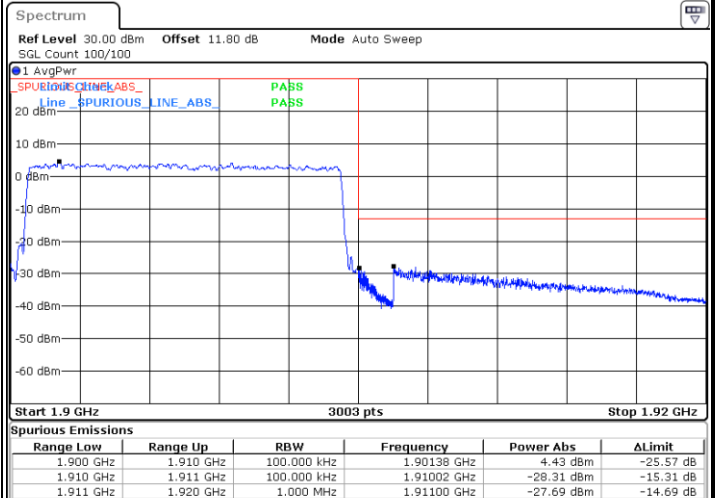
Date: 24.SEP.2022 02:56:39

Lowest Band Edge / Full RB



Date: 24.SEP.2022 02:55:03

Highest Band Edge / Full RB

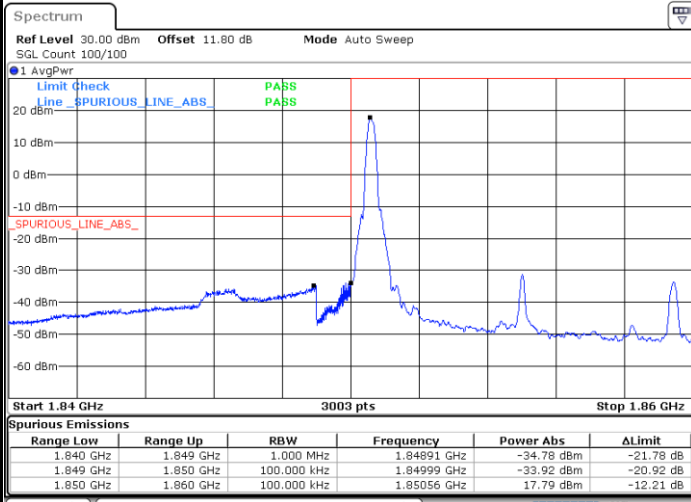


Date: 24.SEP.2022 02:57:36



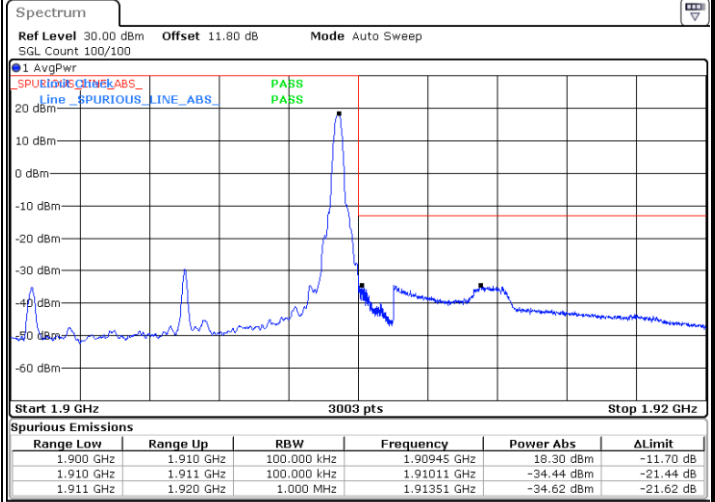
LTE Band 2 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



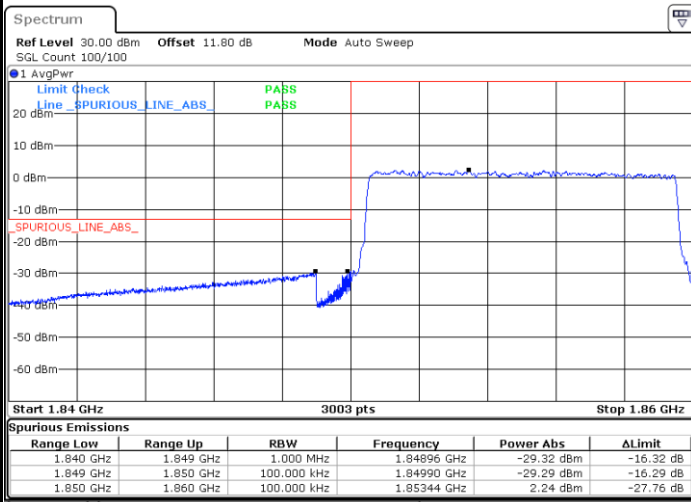
Date: 24.SEP.2022 03:53:56

Highest Band Edge / 1 RB



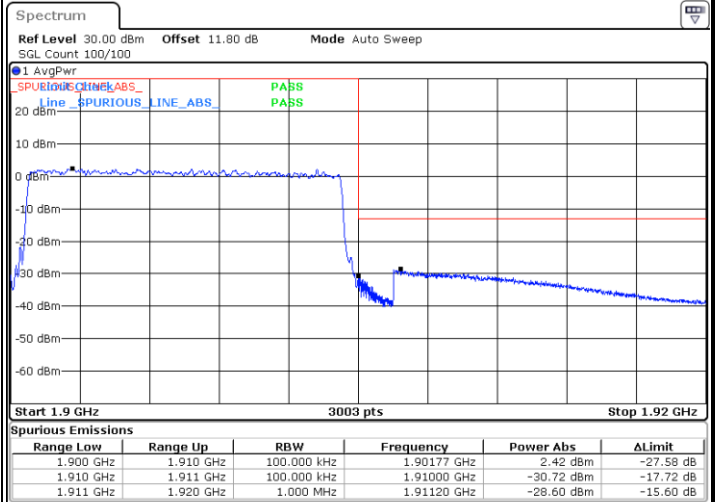
Date: 24.SEP.2022 03:56:29

Lowest Band Edge / Full RB



Date: 24.SEP.2022 03:54:53

Highest Band Edge / Full RB

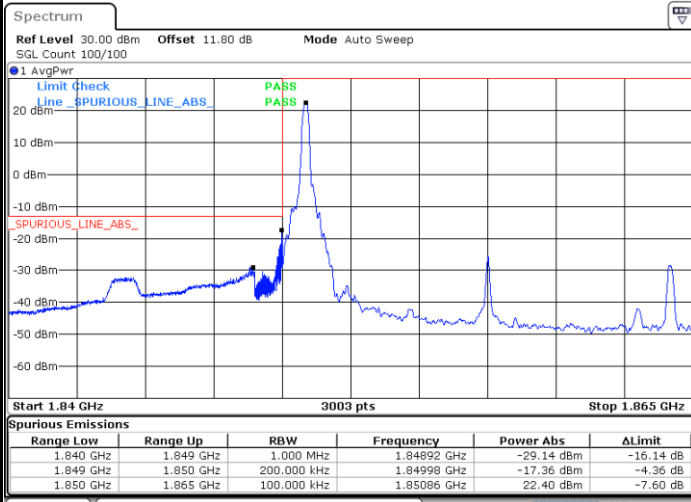


Date: 24.SEP.2022 03:57:25



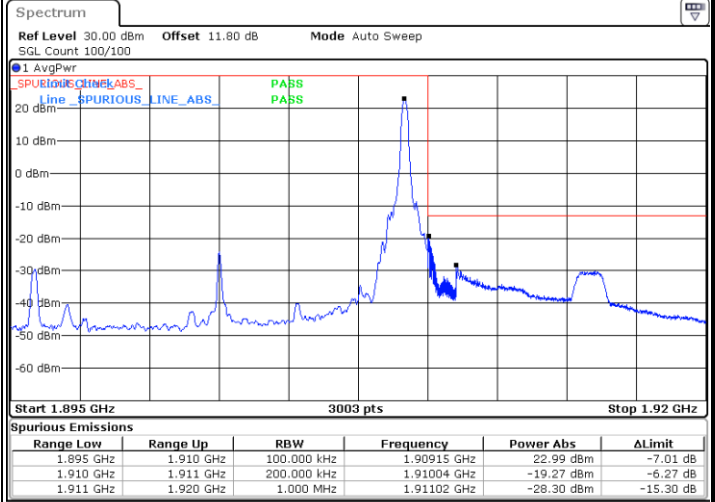
LTE Band 2 / 15MHz / QPSK

Lowest Band Edge / 1 RB



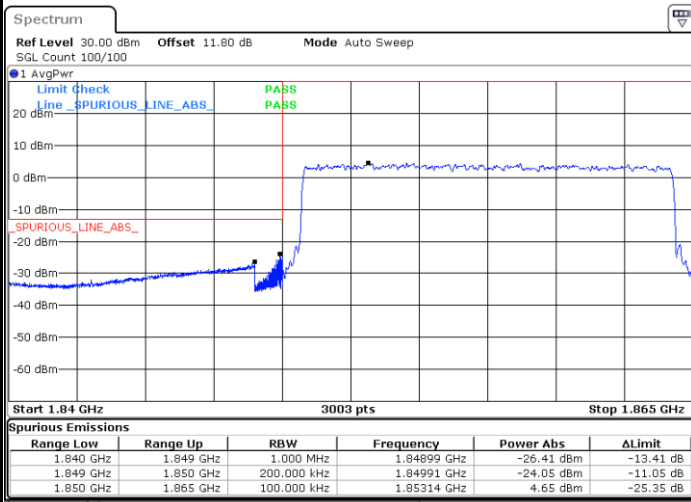
Date: 24.SEP.2022 02:59:18

Highest Band Edge / 1 RB



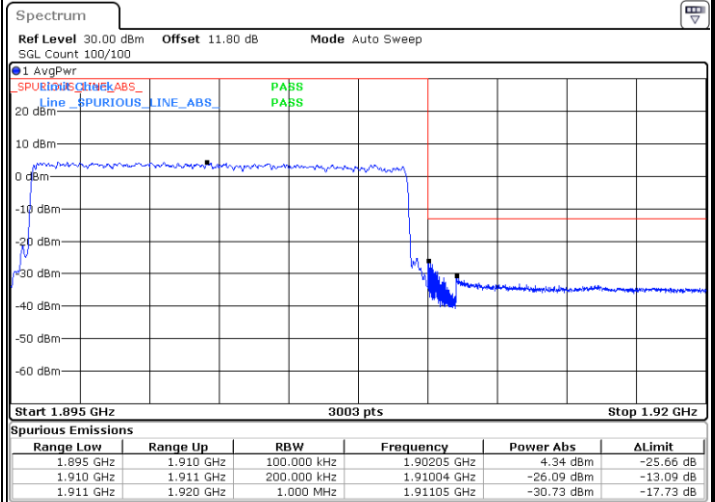
Date: 24.SEP.2022 03:07:37

Lowest Band Edge / Full RB



Date: 24.SEP.2022 03:01:10

Highest Band Edge / Full RB

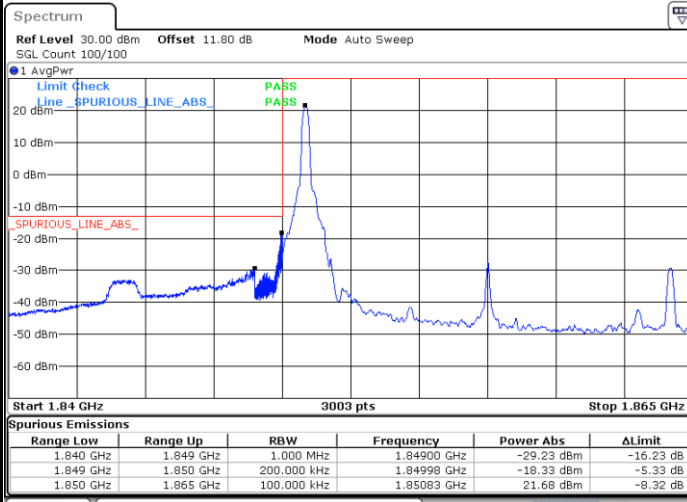


Date: 24.SEP.2022 03:09:31



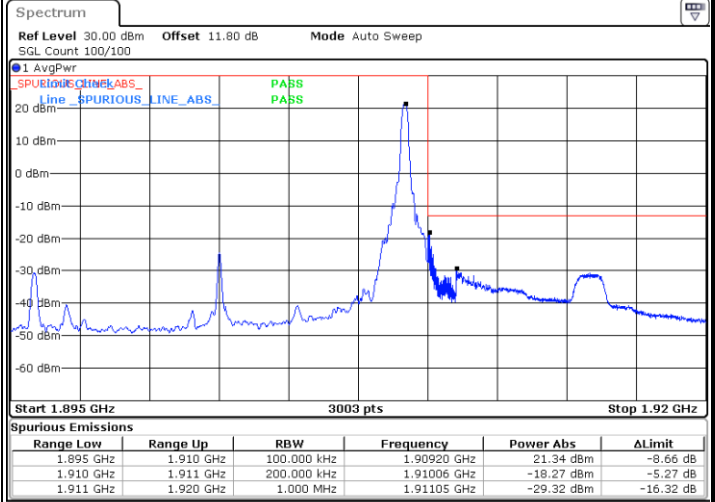
LTE Band 2 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



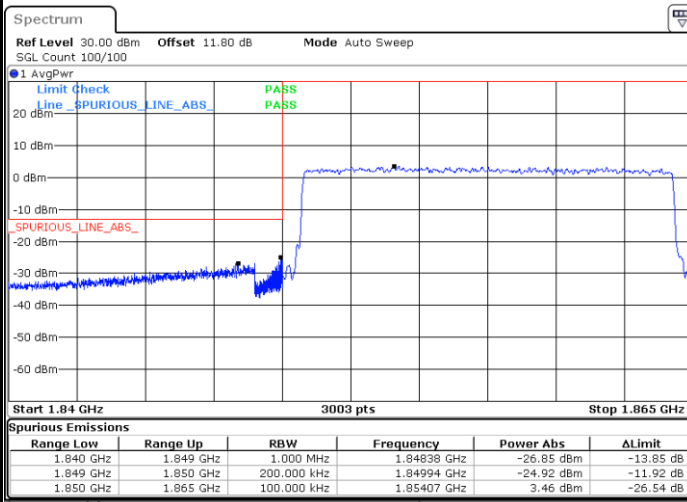
Date: 24.SEP.2022 03:00:14

Highest Band Edge / 1 RB



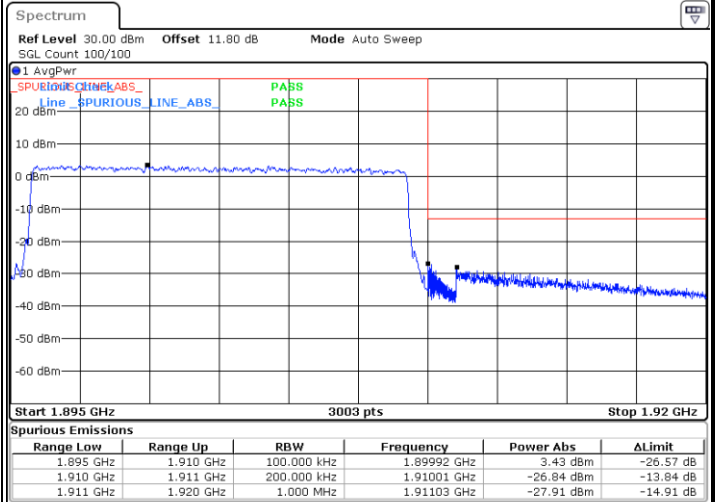
Date: 24.SEP.2022 03:08:34

Lowest Band Edge / Full RB



Date: 24.SEP.2022 03:02:07

Highest Band Edge / Full RB

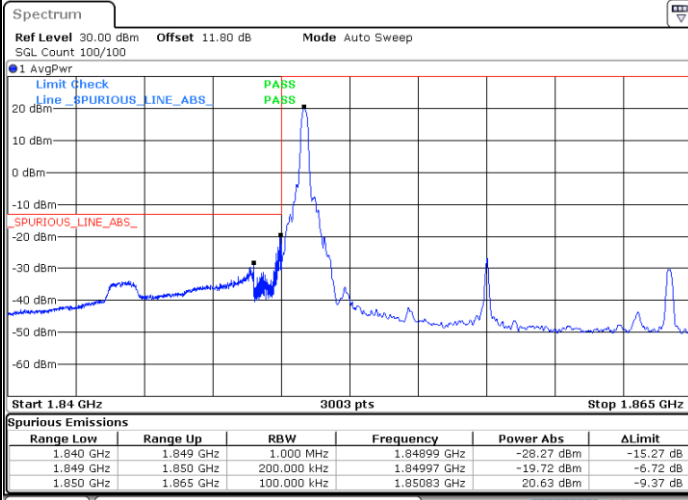


Date: 24.SEP.2022 03:10:27



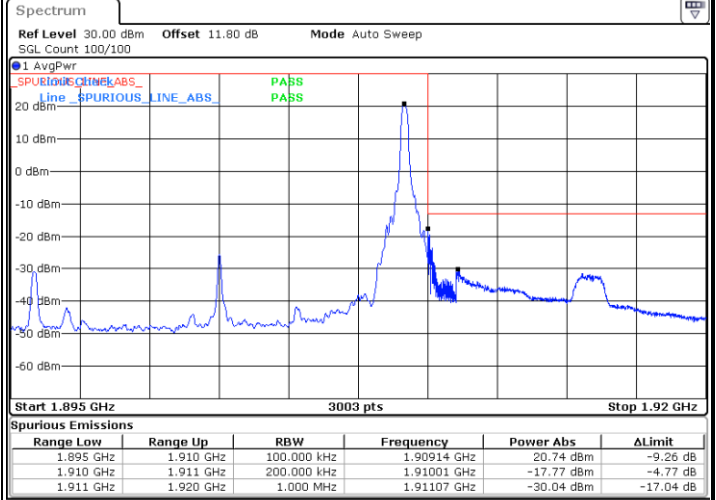
LTE Band 2 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



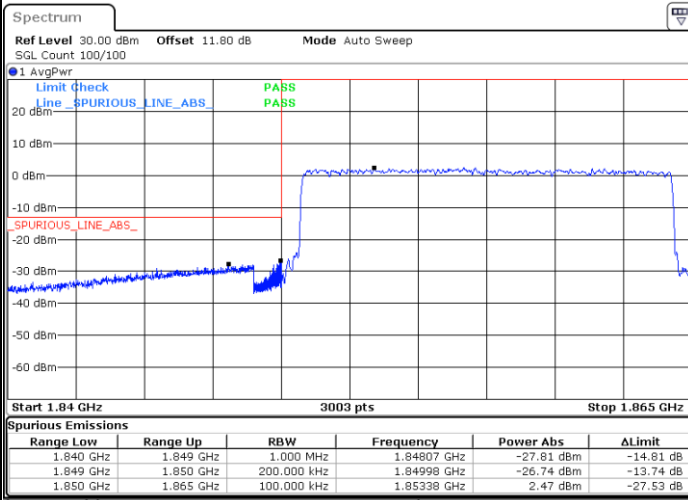
Date: 24.SEP.2022 03:12:49

Highest Band Edge / 1 RB



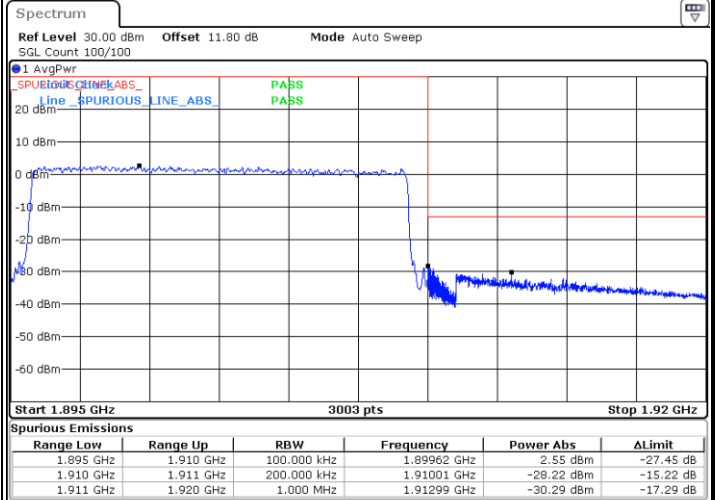
Date: 24.SEP.2022 03:15:21

Lowest Band Edge / Full RB



Date: 24.SEP.2022 03:13:45

Highest Band Edge / Full RB

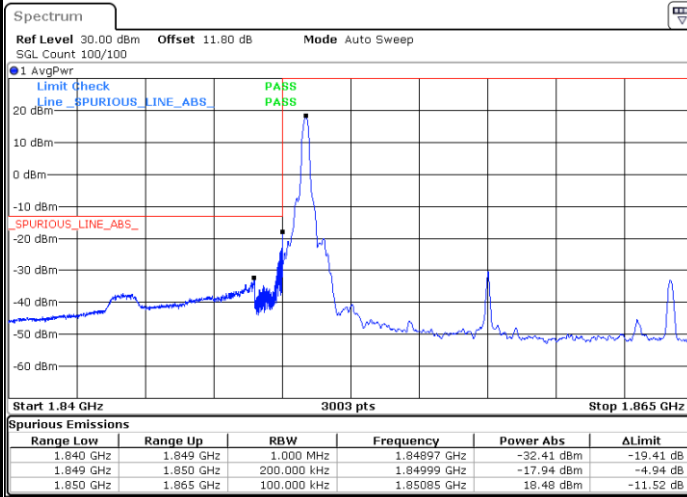


Date: 24.SEP.2022 03:16:17



LTE Band 2 / 15MHz / 256QAM

Lowest Band Edge / 1 RB



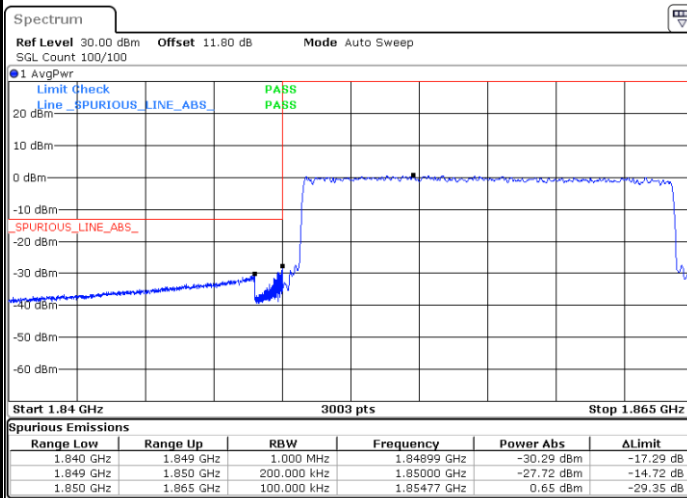
Date: 24.SEP.2022 03:59:11

Highest Band Edge / 1 RB



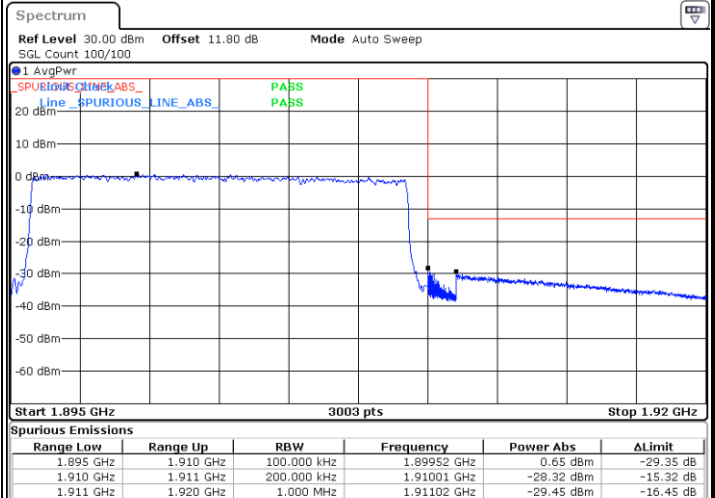
Date: 24.SEP.2022 04:01:47

Lowest Band Edge / Full RB



Date: 24.SEP.2022 04:00:11

Highest Band Edge / Full RB

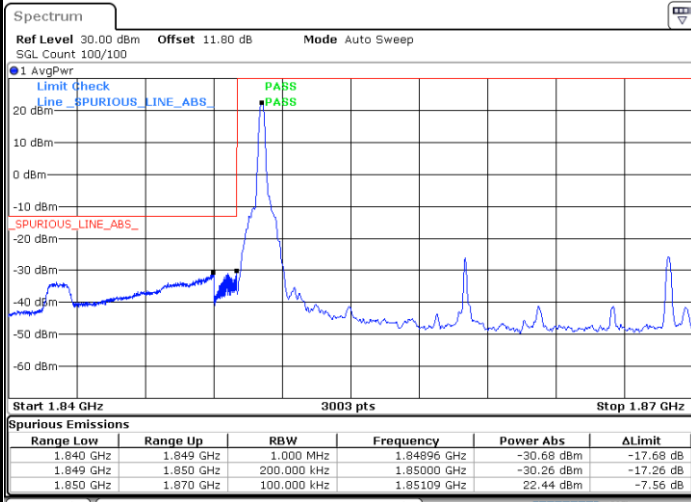


Date: 24.SEP.2022 04:02:44



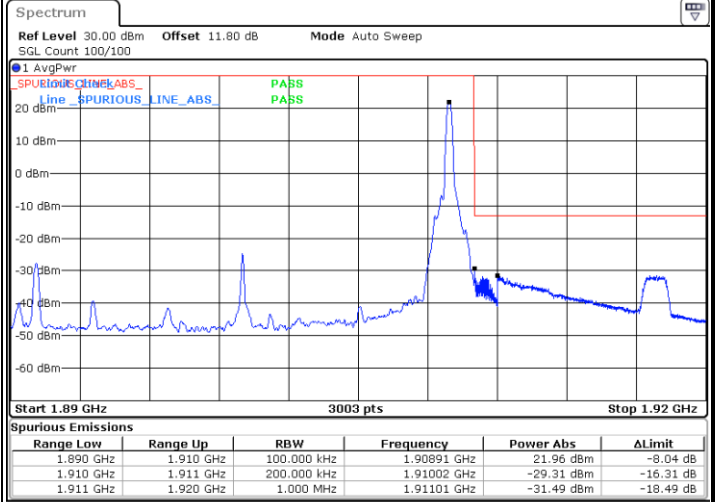
LTE Band 2 / 20MHz / QPSK

Lowest Band Edge / 1 RB



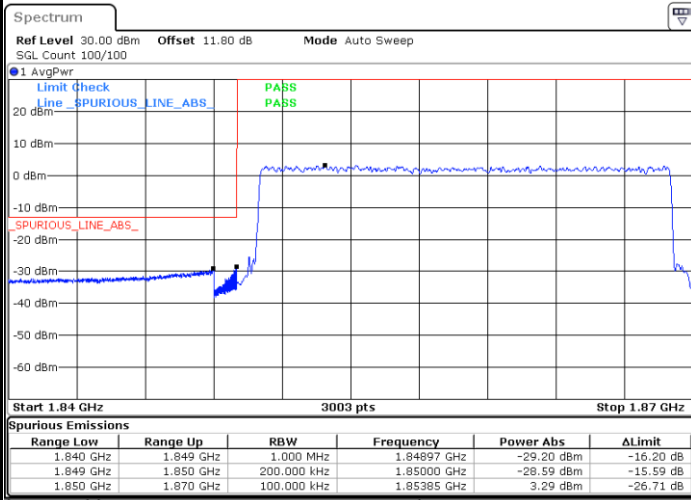
Date: 24.SEP.2022 03:17:58

Highest Band Edge / 1 RB



Date: 24.SEP.2022 03:26:20

Lowest Band Edge / Full RB



Date: 24.SEP.2022 03:19:51

Highest Band Edge / Full RB

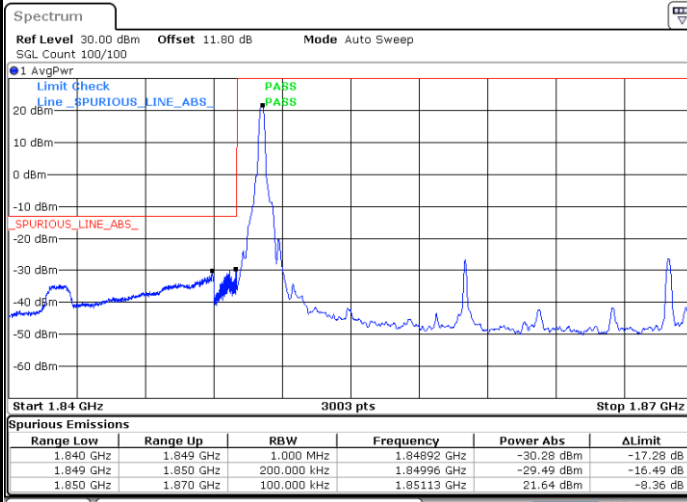


Date: 24.SEP.2022 03:28:13



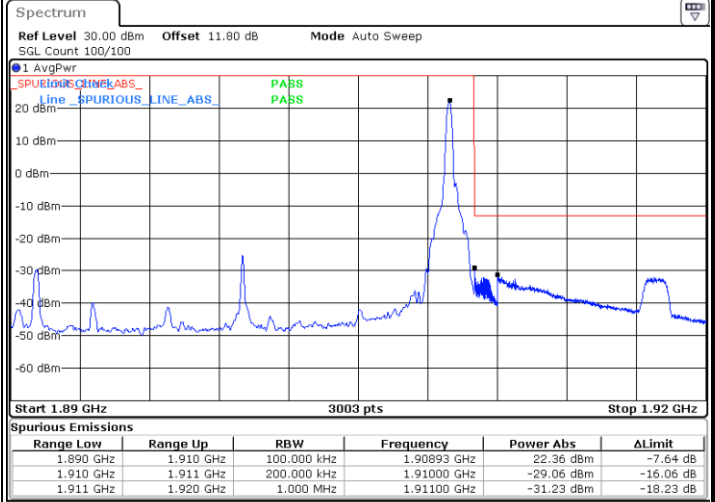
LTE Band 2 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



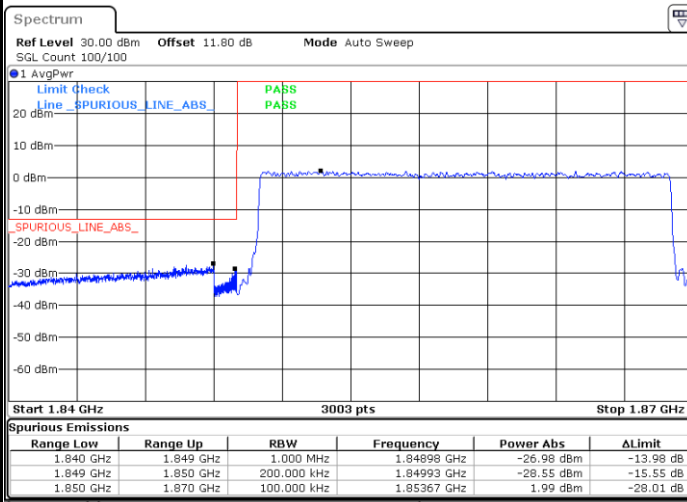
Date: 24.SEP.2022 03:18:55

Highest Band Edge / 1 RB



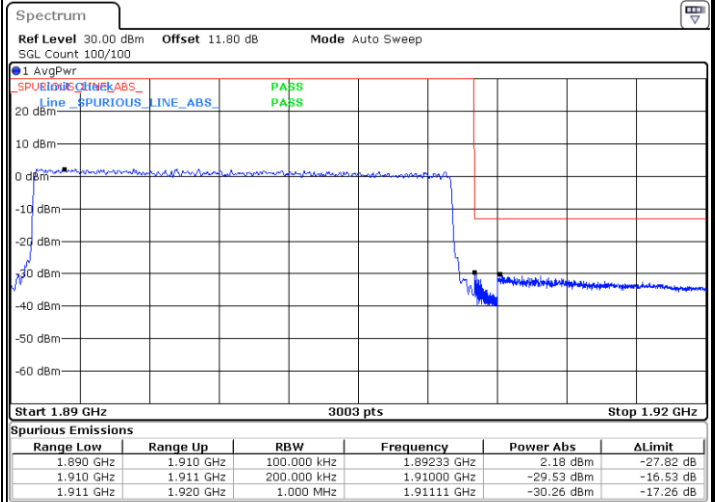
Date: 24.SEP.2022 03:27:16

Lowest Band Edge / Full RB



Date: 24.SEP.2022 03:20:48

Highest Band Edge / Full RB

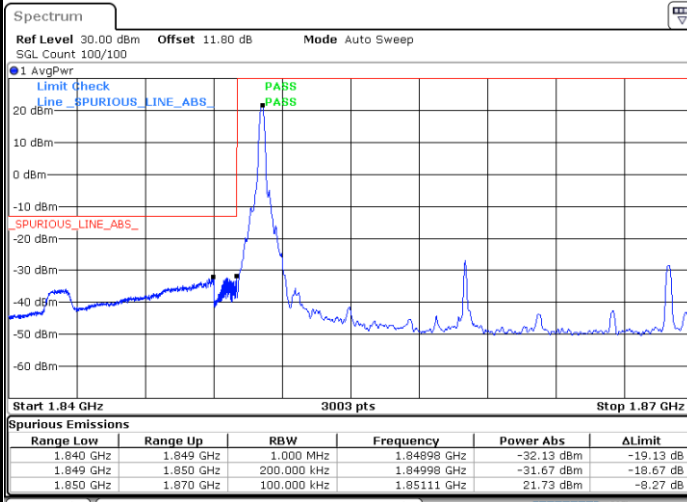


Date: 24.SEP.2022 03:29:09



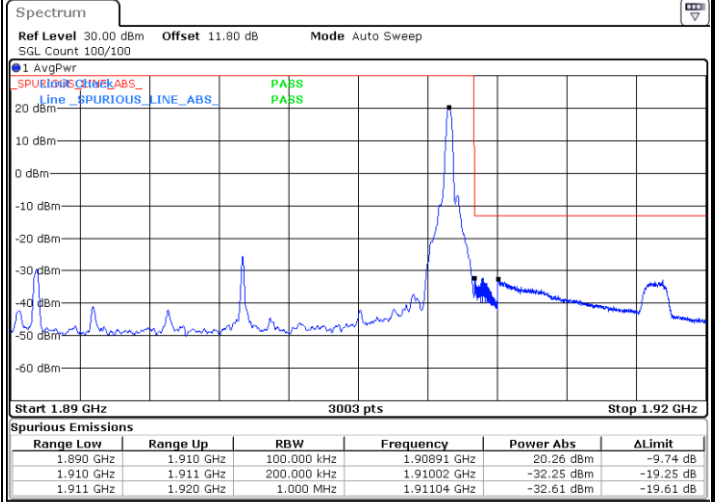
LTE Band 2 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



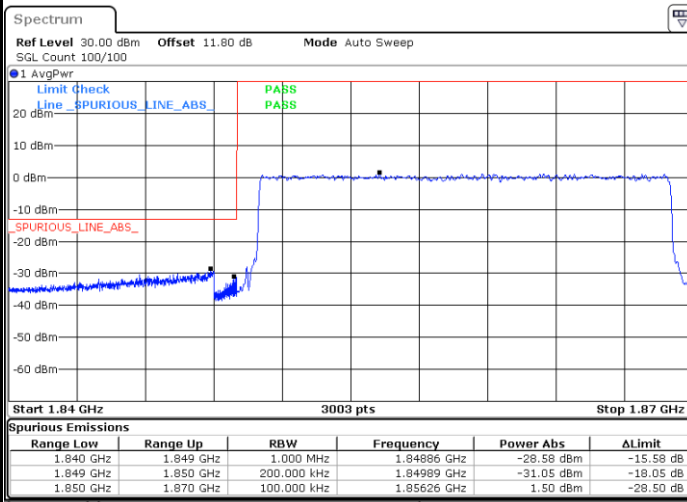
Date: 24.SEP.2022 03:31:31

Highest Band Edge / 1 RB



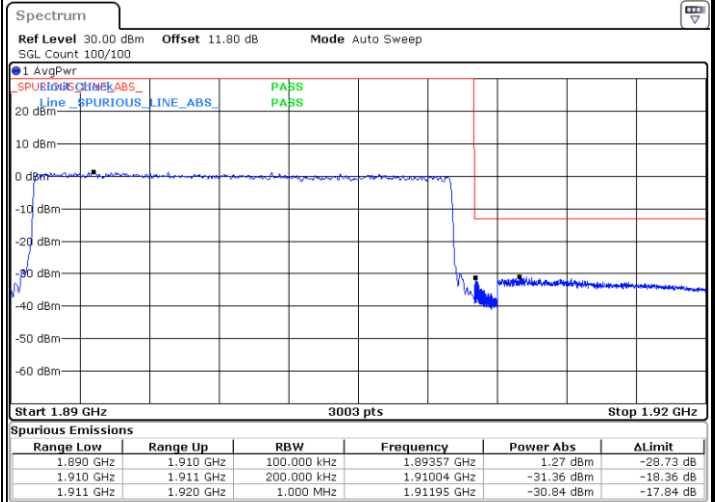
Date: 24.SEP.2022 03:34:03

Lowest Band Edge / Full RB



Date: 24.SEP.2022 03:32:27

Highest Band Edge / Full RB

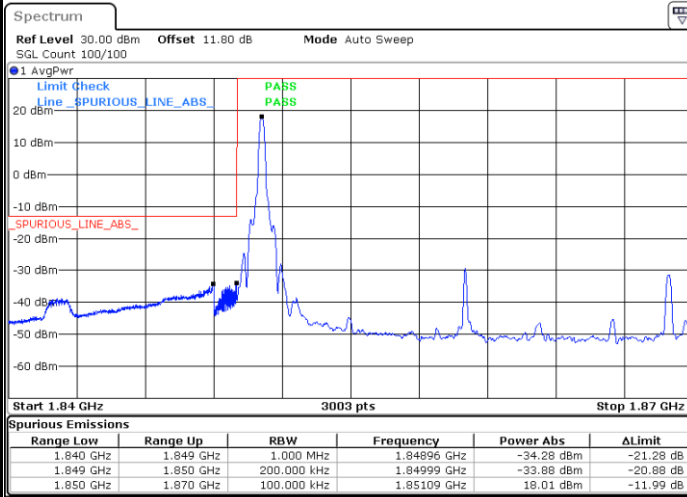


Date: 24.SEP.2022 03:35:00



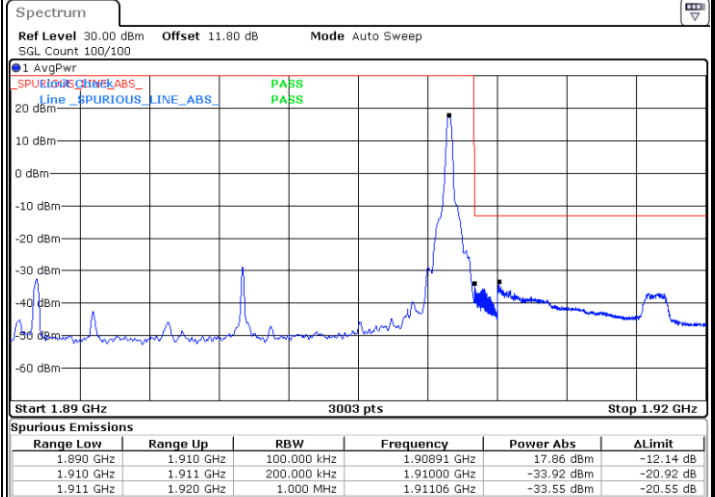
LTE Band 2 / 20MHz / 256QAM

Lowest Band Edge / 1 RB



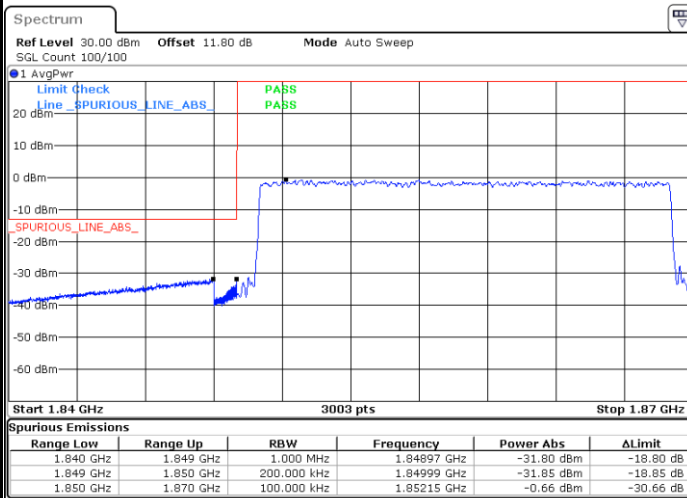
Date: 24.SEP.2022 04:04:30

Highest Band Edge / 1 RB



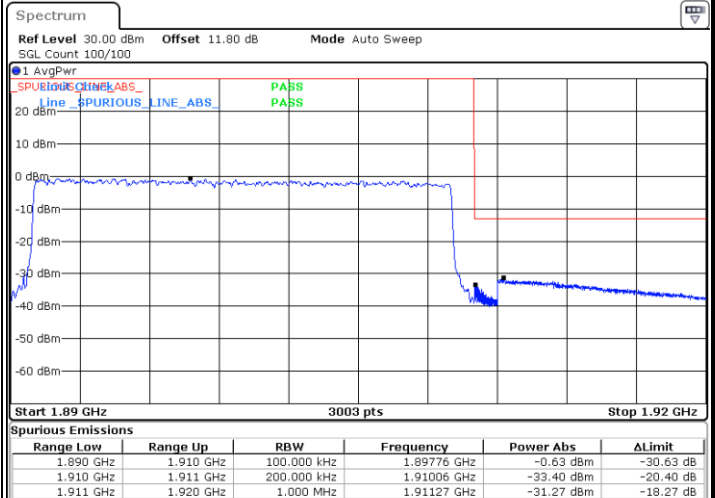
Date: 24.SEP.2022 04:07:03

Lowest Band Edge / Full RB



Date: 24.SEP.2022 04:05:26

Highest Band Edge / Full RB



Date: 24.SEP.2022 04:07:59

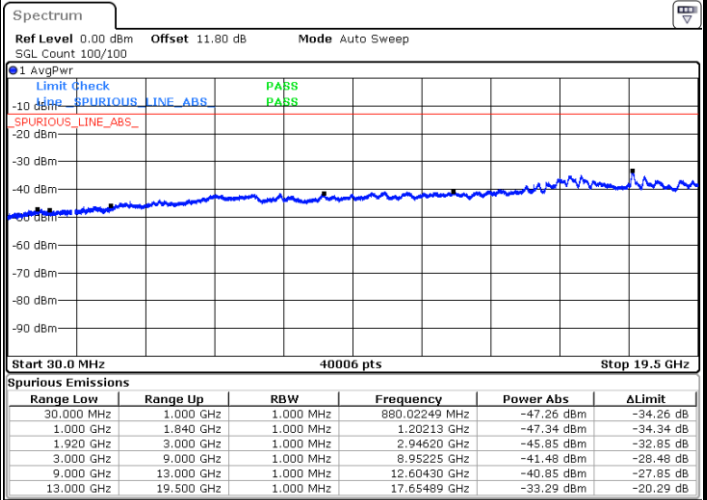
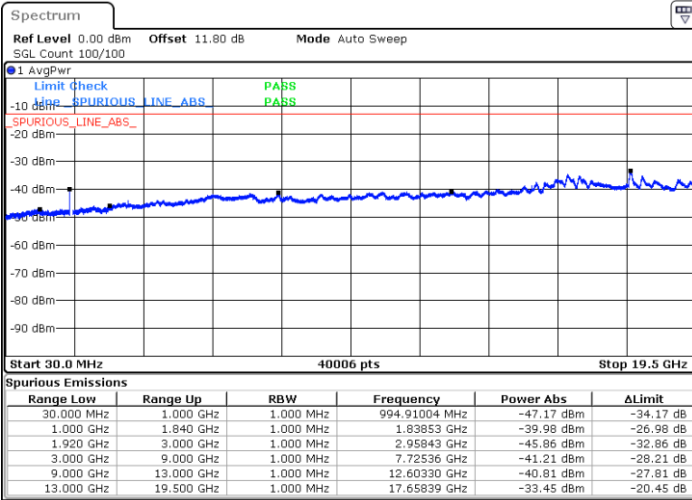


Conducted Spurious Emission

LTE Band 2 / 1.4MHz

Lowest Channel / QPSK

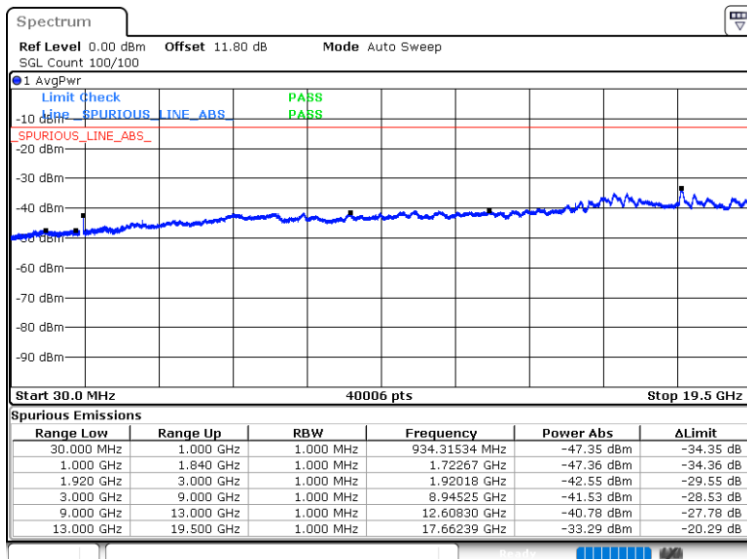
Middle Channel / QPSK



Date: 24.SEP.2022 01:53:06

Date: 24.SEP.2022 01:56:16

Highest Channel / QPSK



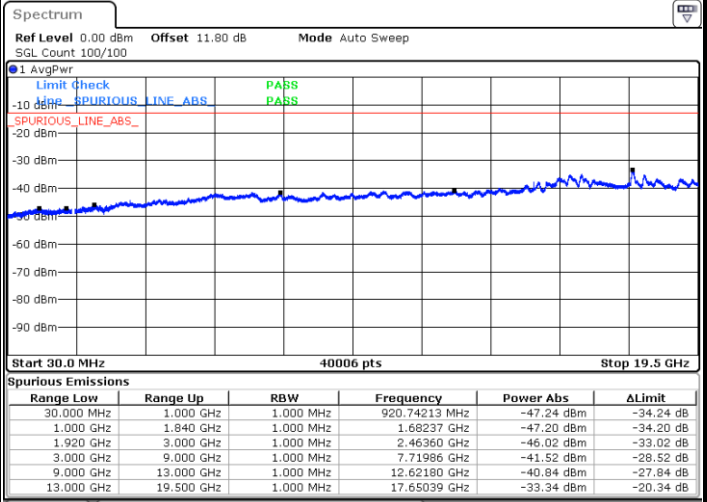
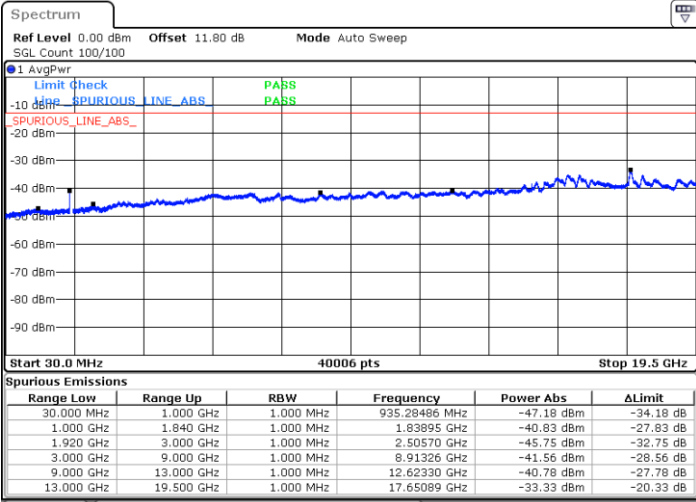
Date: 24.SEP.2022 02:01:28



LTE Band 2 / 3MHz

Lowest Channel / QPSK

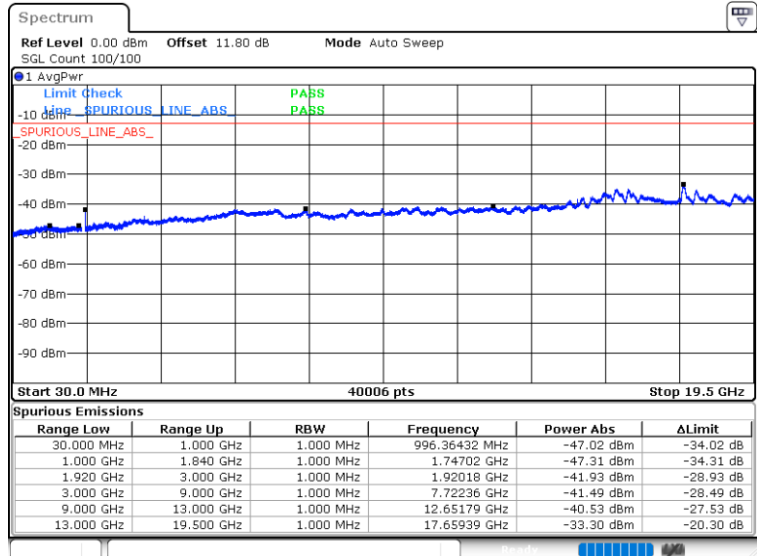
Middle Channel / QPSK



Date: 24.SEP.2022 02:07:25

Date: 24.SEP.2022 02:10:35

Highest Channel / QPSK



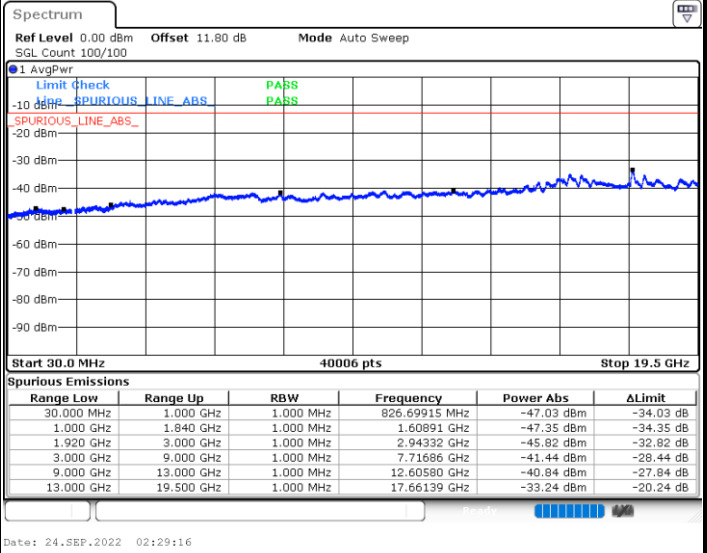
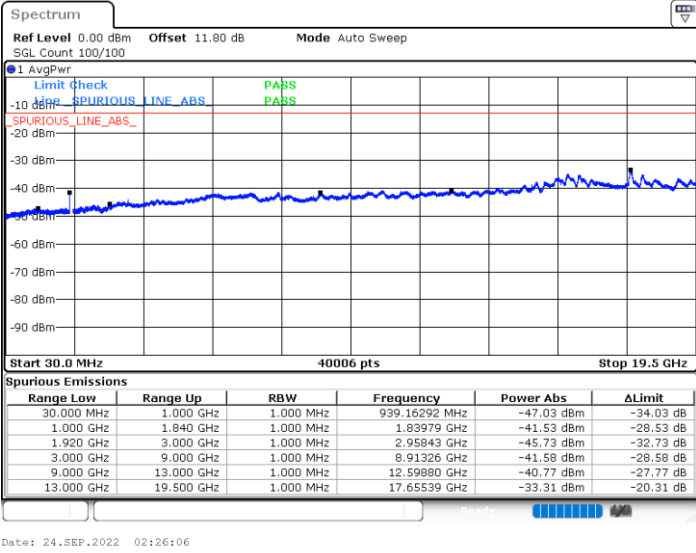
Date: 24.SEP.2022 02:15:45



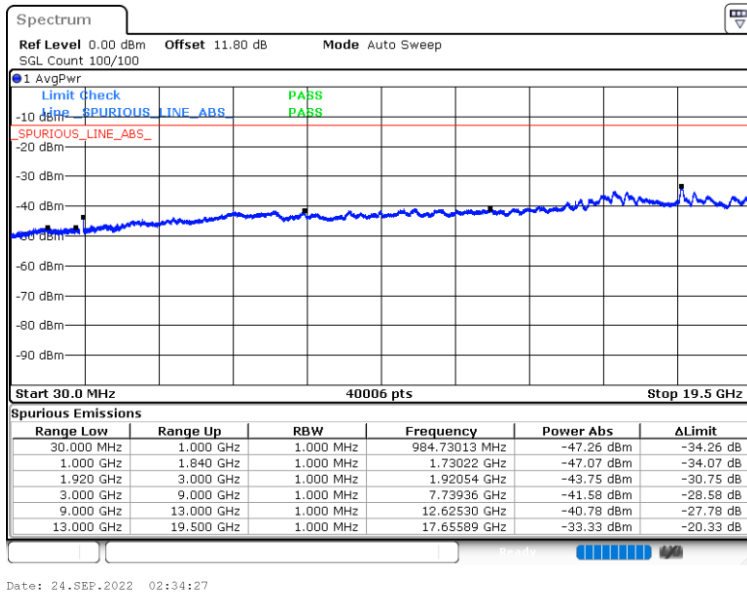
LTE Band 2 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

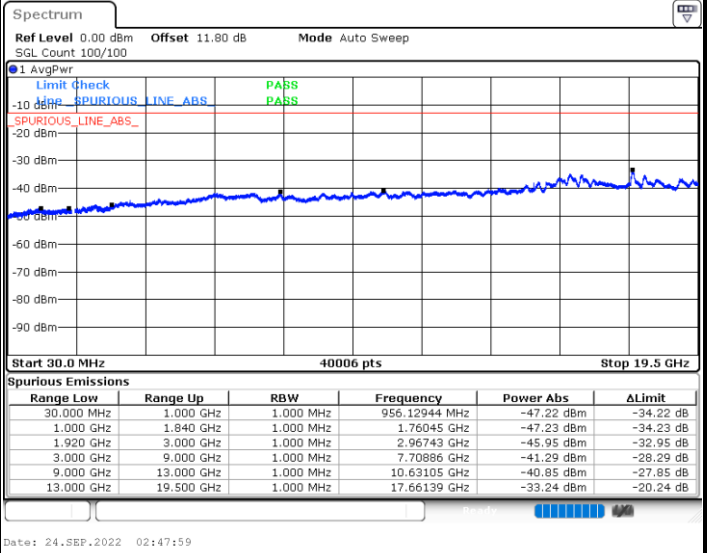
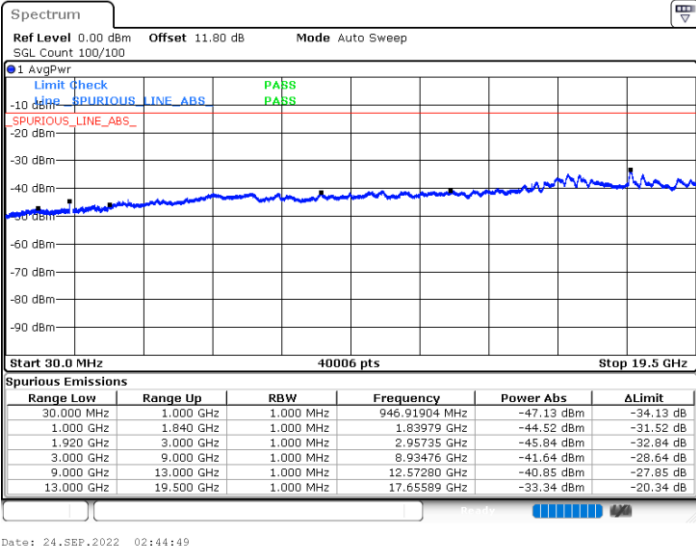




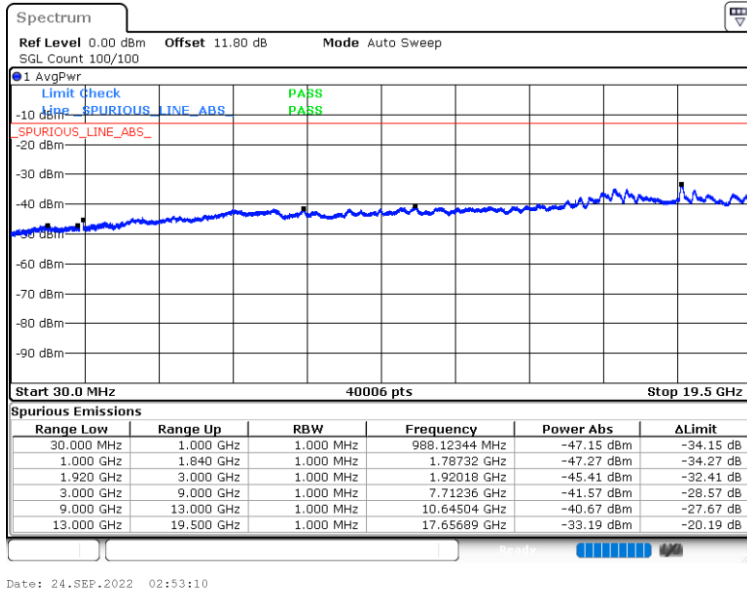
LTE Band 2 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

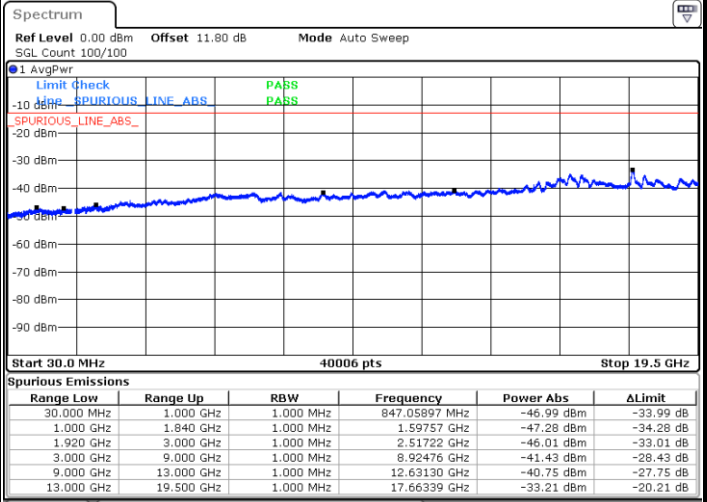
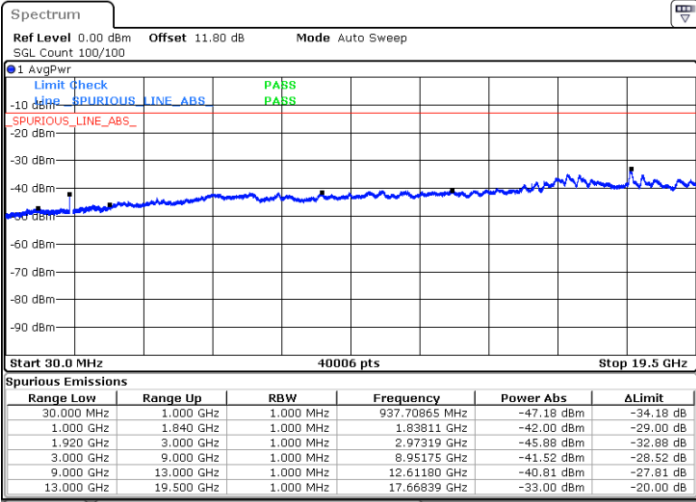




LTE Band 2 / 15MHz

Lowest Channel / QPSK

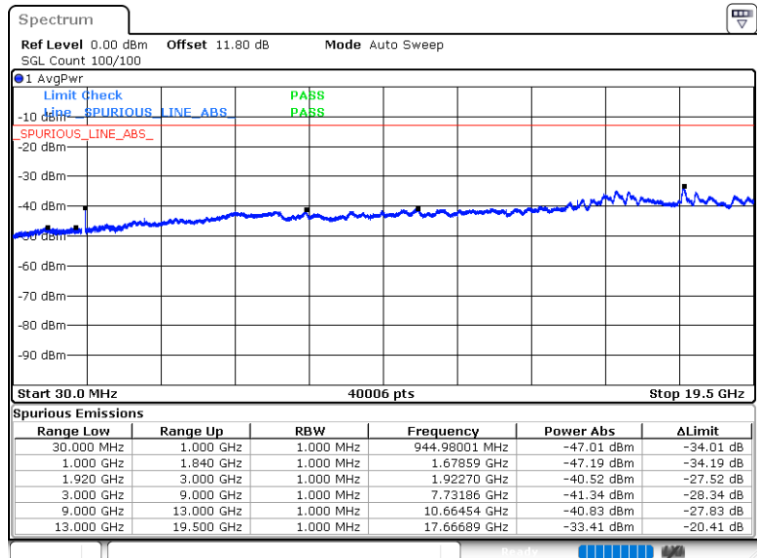
Middle Channel / QPSK



Date: 24.SEP.2022 03:03:33

Date: 24.SEP.2022 03:06:42

Highest Channel / QPSK



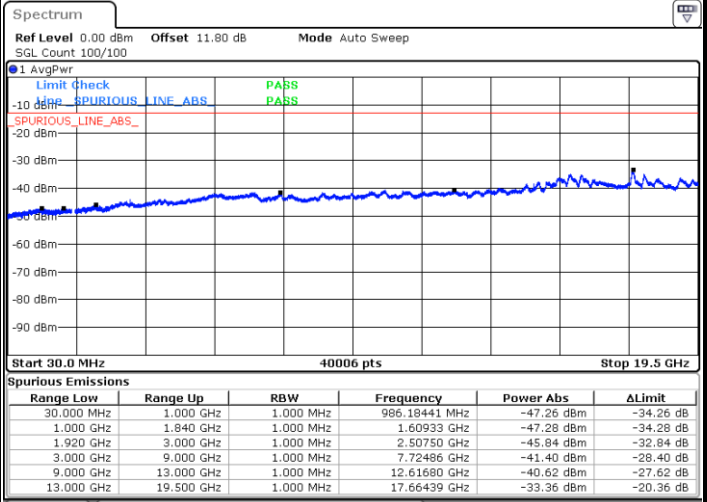
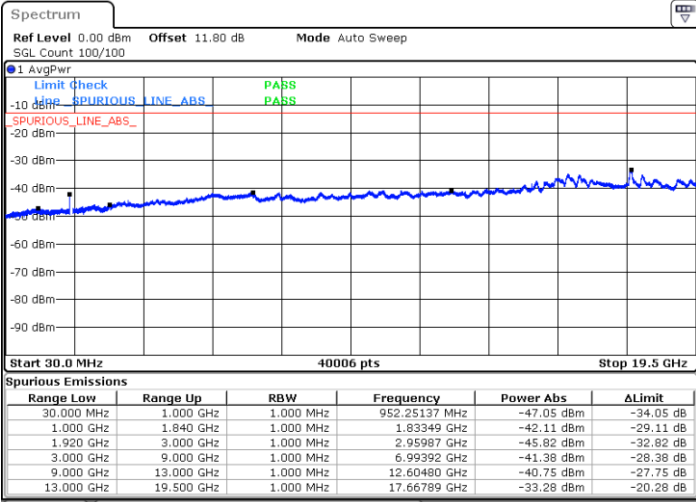
Date: 24.SEP.2022 03:11:53



LTE Band 2 / 20MHz

Lowest Channel / QPSK

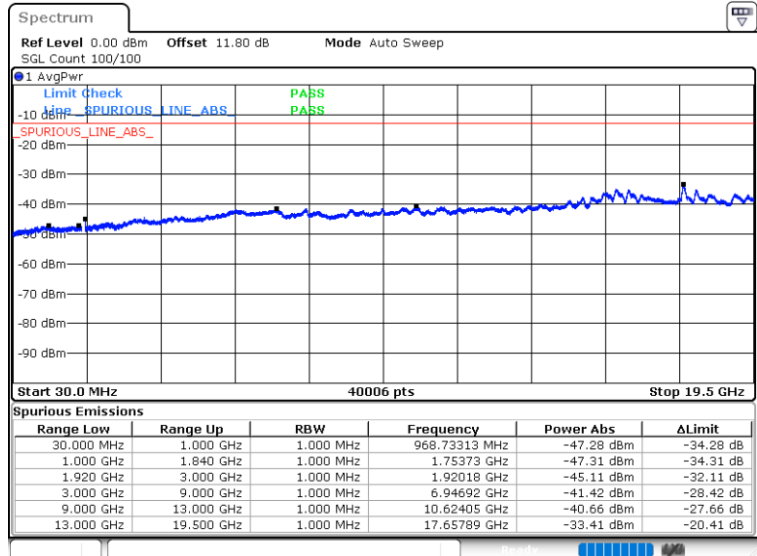
Middle Channel / QPSK



Date: 24.SEP.2022 03:22:13

Date: 24.SEP.2022 03:25:24

Highest Channel / QPSK



Date: 24.SEP.2022 03:30:35



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	0.0026	PASS
40	Normal Voltage	0.0002	
30	Normal Voltage	0.0002	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0025	
-10	Normal Voltage	0.0029	
-20	Normal Voltage	0.0054	
-30	Normal Voltage	0.0010	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0045	

Note:

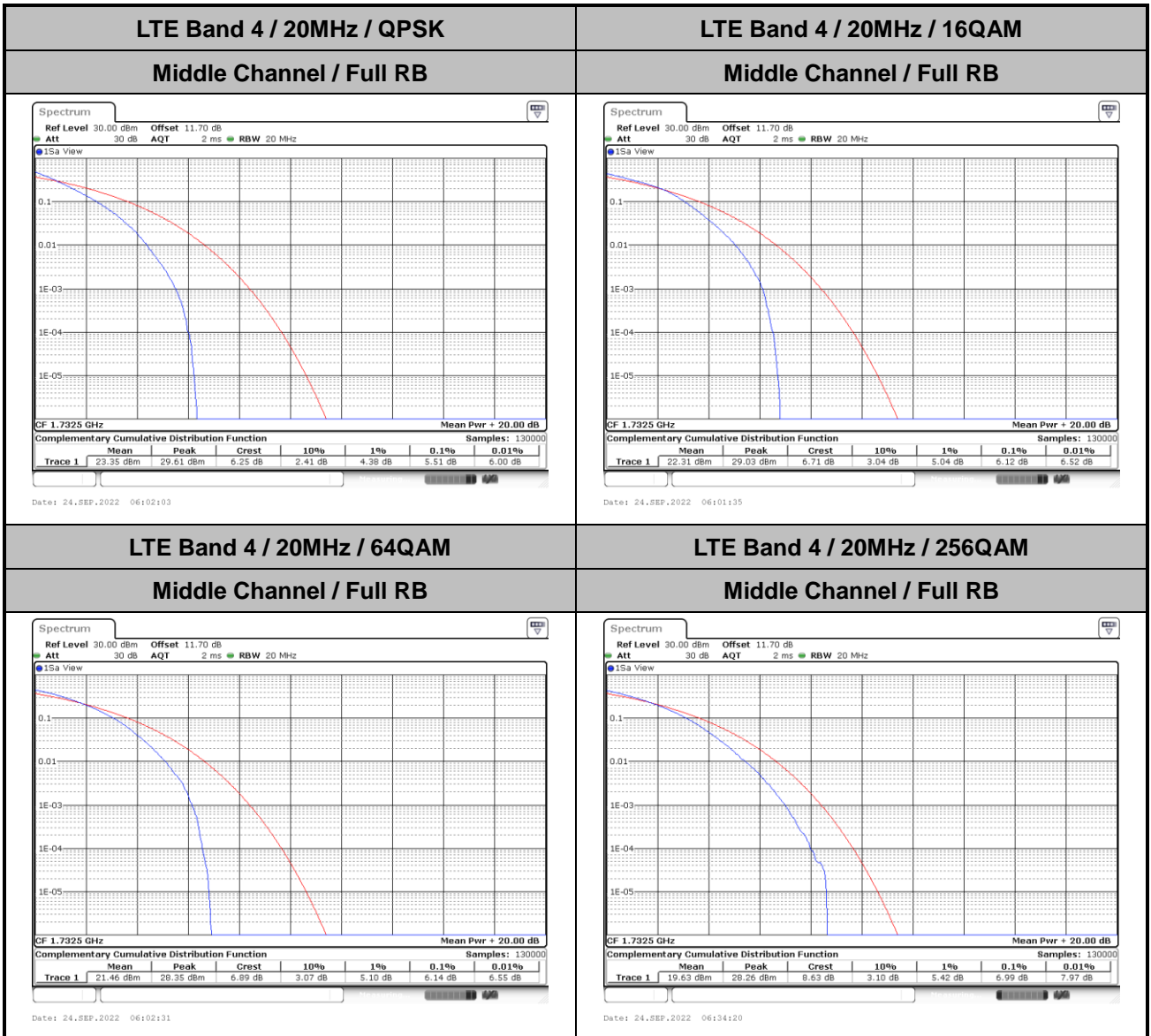
1. Normal Voltage = 3.85 V. ; Battery End Point (BEP) = 3.6 V. ; Maximum Voltage = 4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



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	5.51	6.12	6.14	6.99	PASS





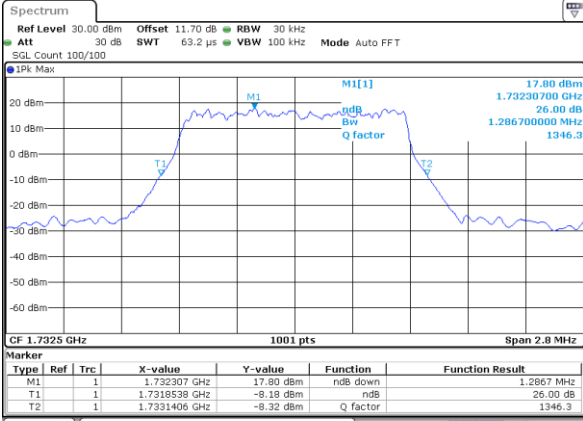
26dB Bandwidth

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	1.29	1.33	3.13	3.06	5.14	5.16	10.13	10.59	14.90	14.42	19.54	19.42
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	1.30	3.09	3.12	5.25	5.03	10.19	10.17	14.93	14.87	19.02	19.30



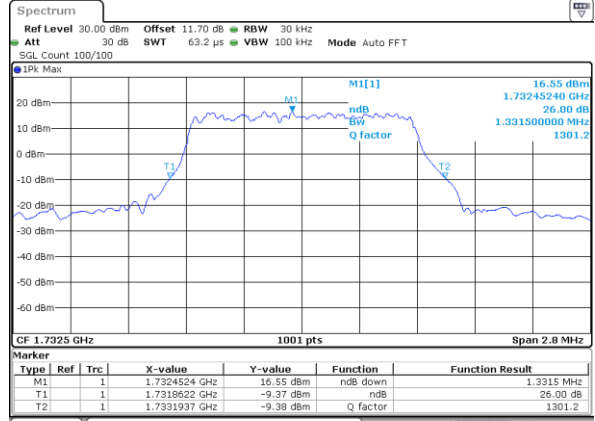
LTE Band 4

Middle Channel / 1.4MHz / QPSK



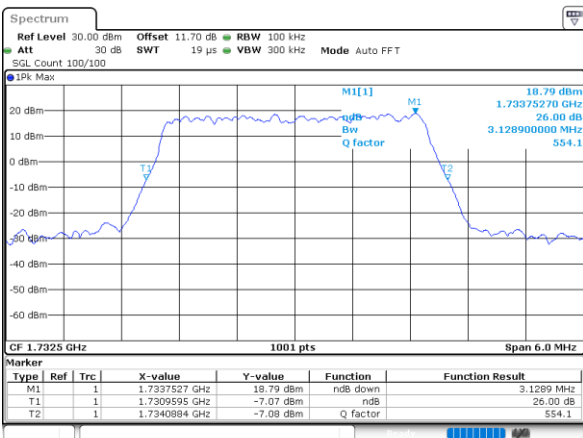
Date: 24.SEP.2022 04:15:46

Middle Channel / 1.4MHz / 16QAM



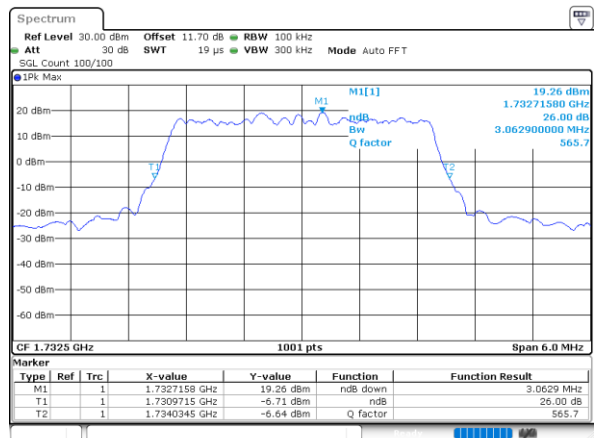
Date: 24.SEP.2022 04:16:12

Middle Channel / 3MHz / QPSK



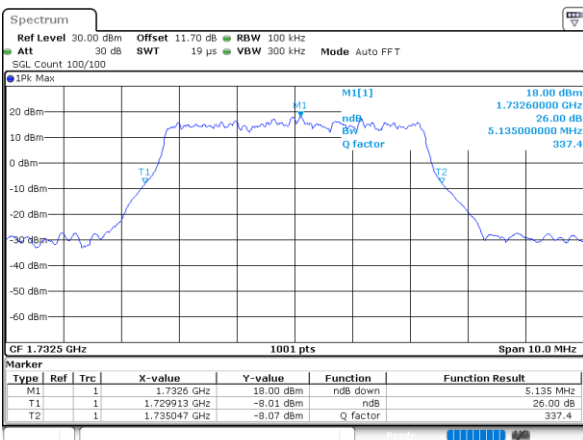
Date: 24.SEP.2022 04:34:33

Middle Channel / 3MHz / 16QAM



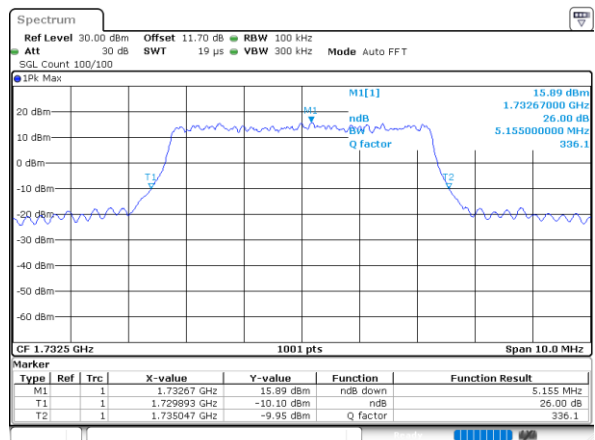
Date: 24.SEP.2022 04:34:59

Middle Channel / 5MHz / QPSK



Date: 24.SEP.2022 04:57:45

Middle Channel / 5MHz / 16QAM

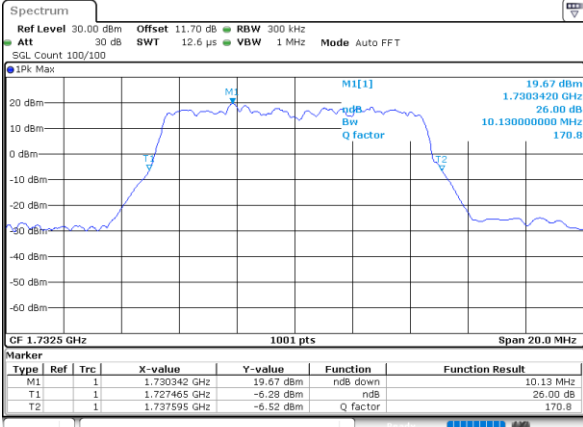


Date: 24.SEP.2022 04:58:11



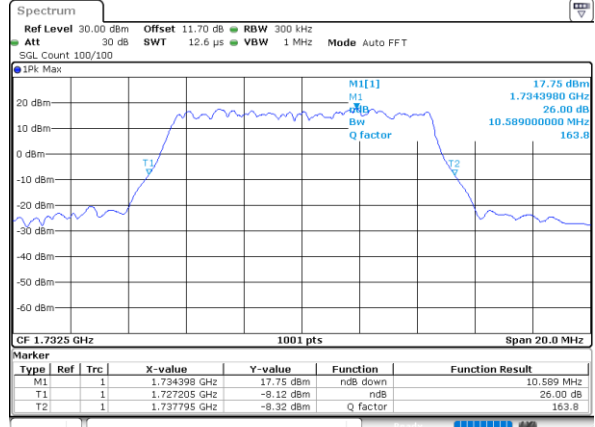
LTE Band 4

Middle Channel / 10MHz / QPSK



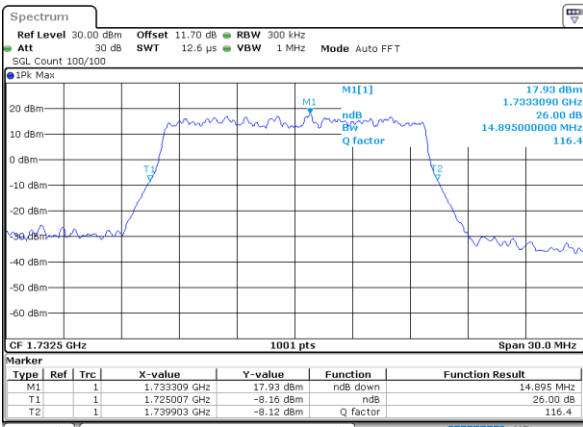
Date: 24.SEP.2022 05:11:22

Middle Channel / 10MHz / 16QAM



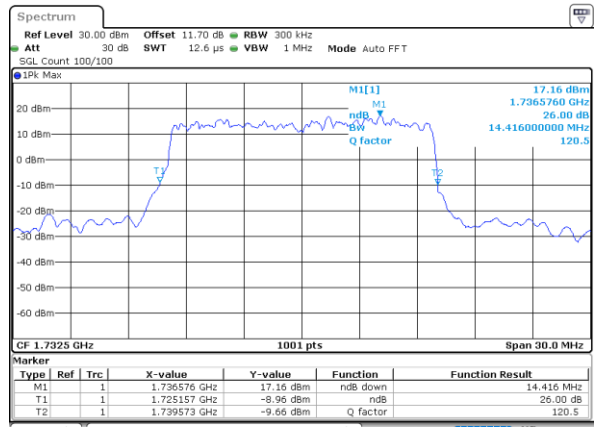
Date: 24.SEP.2022 05:11:49

Middle Channel / 15MHz / QPSK



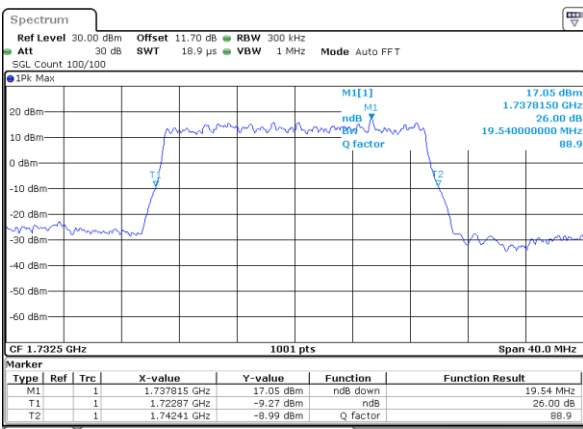
Date: 24.SEP.2022 05:30:05

Middle Channel / 15MHz / 16QAM



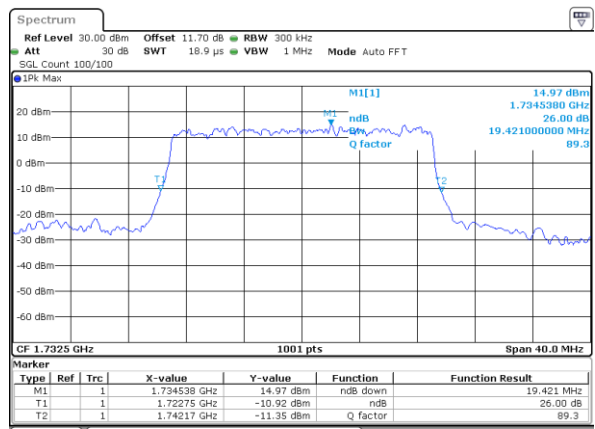
Date: 24.SEP.2022 05:30:32

Middle Channel / 20MHz / QPSK



Date: 24.SEP.2022 05:49:39

Middle Channel / 20MHz / 16QAM

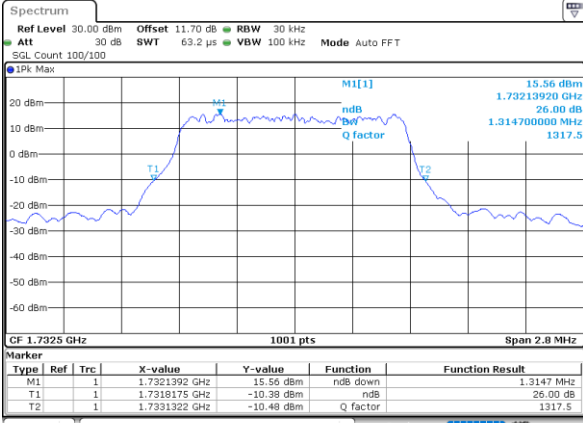


Date: 24.SEP.2022 05:50:05



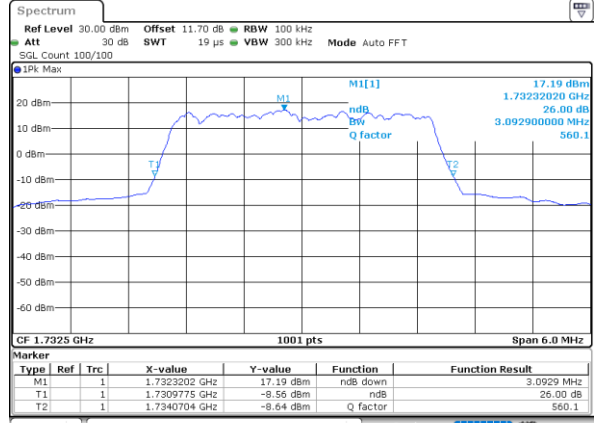
LTE Band 4

Middle Channel / 1.4MHz / 64QAM



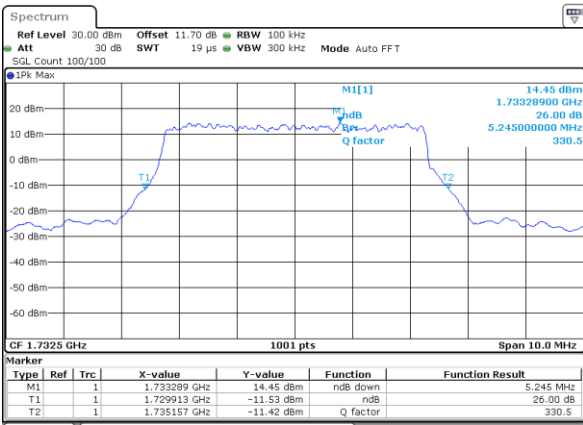
Date: 24.SEP.2022 04:25:24

Middle Channel / 3MHz / 64QAM



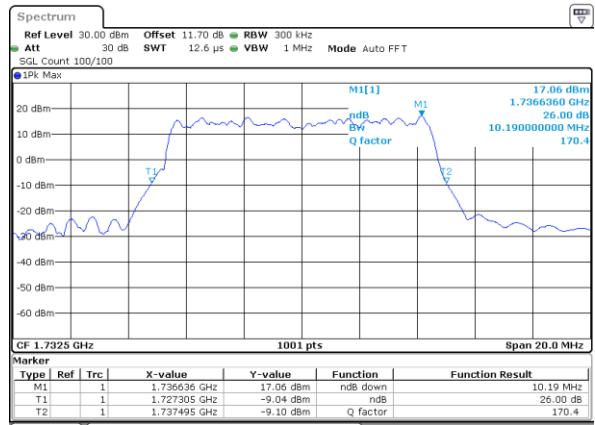
Date: 24.SEP.2022 04:44:10

Middle Channel / 5MHz / 64QAM



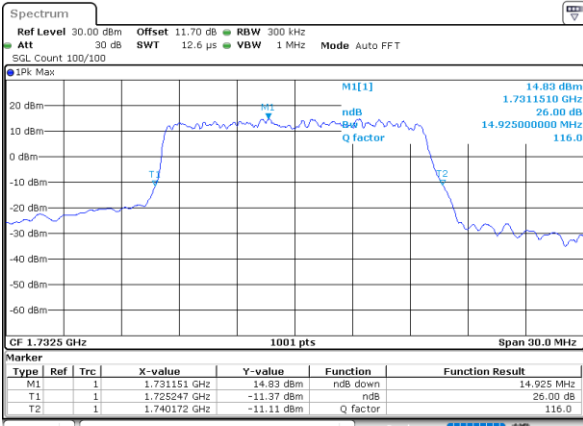
Date: 24.SEP.2022 04:49:22

Middle Channel / 10MHz / 64QAM



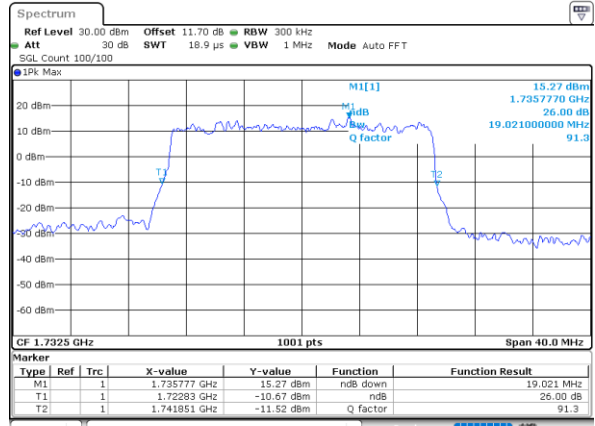
Date: 24.SEP.2022 05:12:05

Middle Channel / 15MHz / 64QAM



Date: 24.SEP.2022 05:19:40

Middle Channel / 20MHz / 64QAM

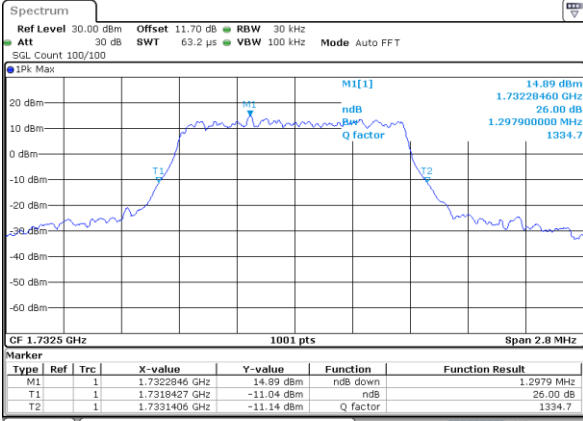


Date: 24.SEP.2022 05:19:15



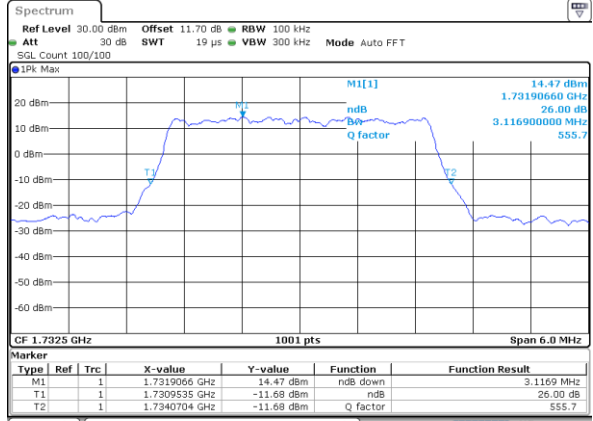
LTE Band 4

Middle Channel / 1.4MHz / 256QAM



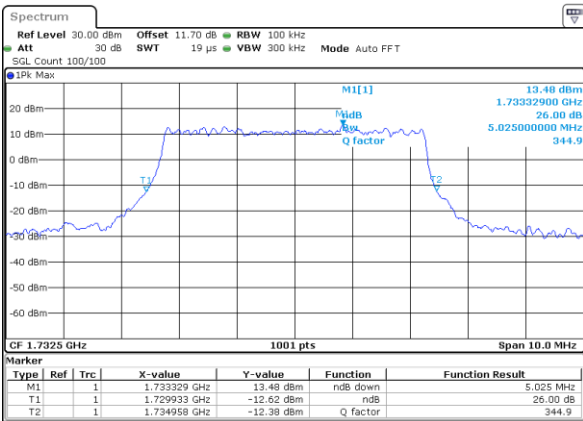
Date: 24.SEP.2022 06:05:55

Middle Channel / 3MHz / 256QAM



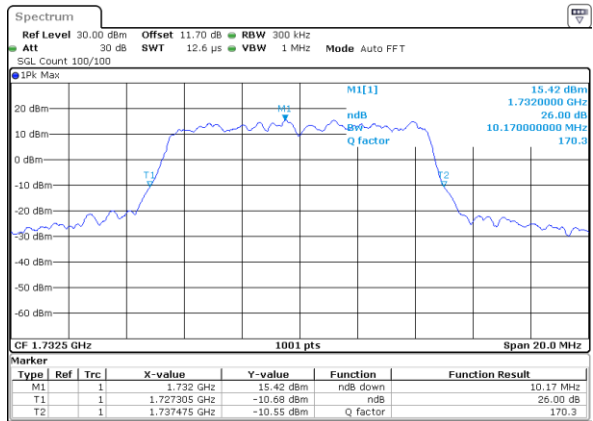
Date: 24.SEP.2022 06:10:24

Middle Channel / 5MHz / 256QAM



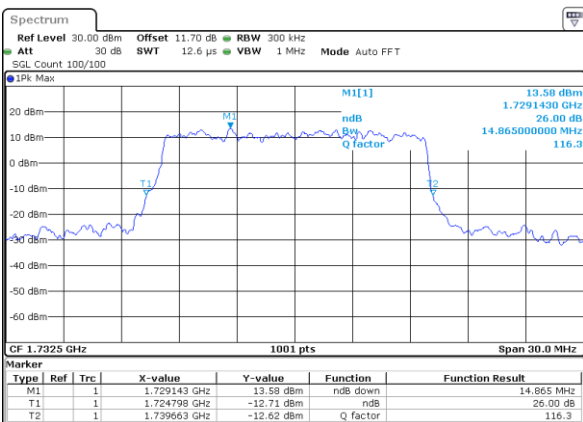
Date: 24.SEP.2022 06:16:31

Middle Channel / 10MHz / 256QAM



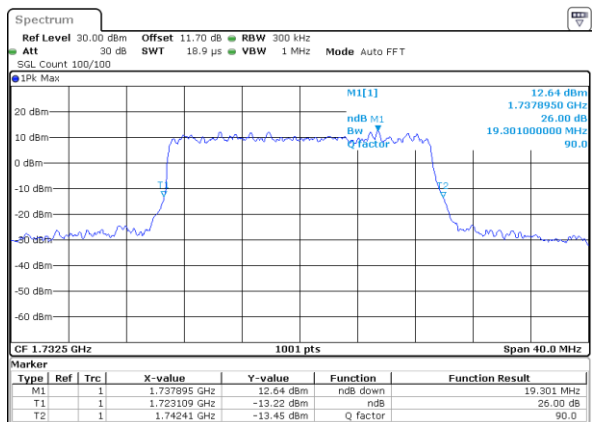
Date: 24.SEP.2022 06:21:00

Middle Channel / 15MHz / 256QAM



Date: 24.SEP.2022 06:26:17

Middle Channel / 20MHz / 256QAM



Date: 24.SEP.2022 06:31:59



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	1.09	1.10	2.72	2.73	4.53	4.48	9.05	9.05	13.40	13.46	17.82	17.78
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	1.10	1.09	2.72	2.72	4.55	4.52	9.01	9.01	13.43	13.46	18.02	17.86