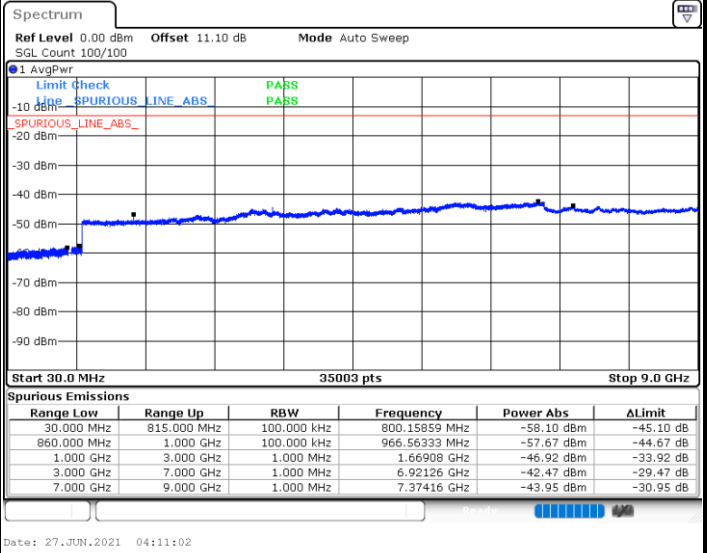
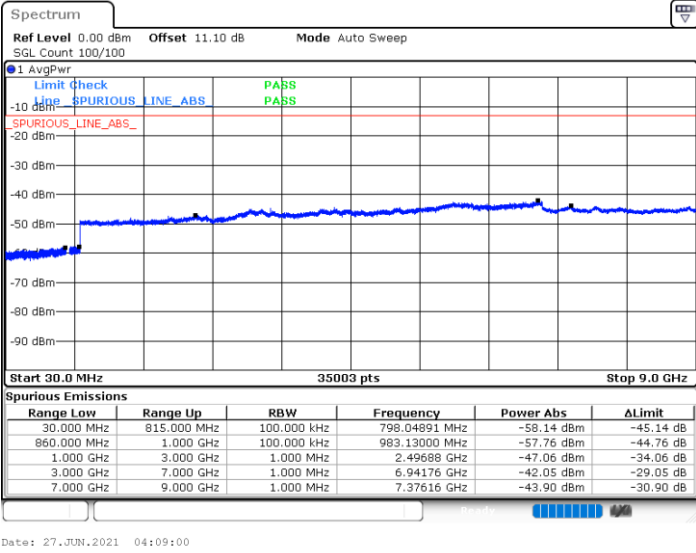




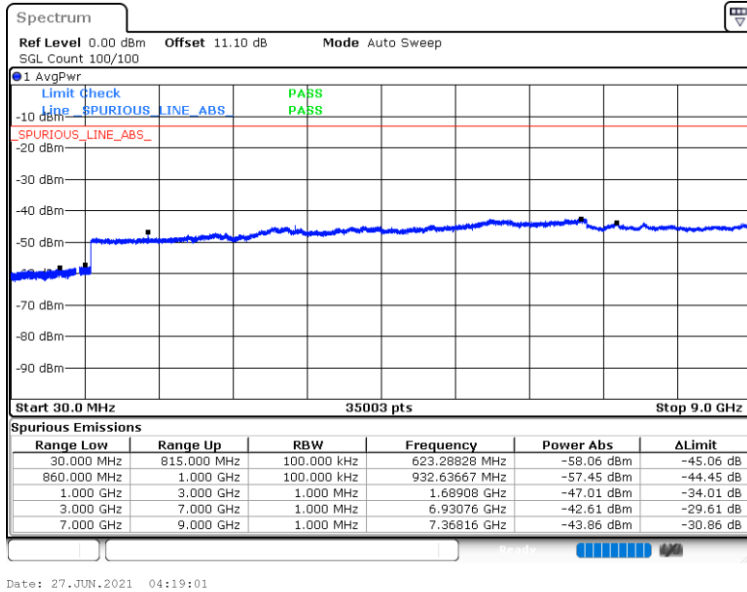
LTE Band 5 / 5MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK

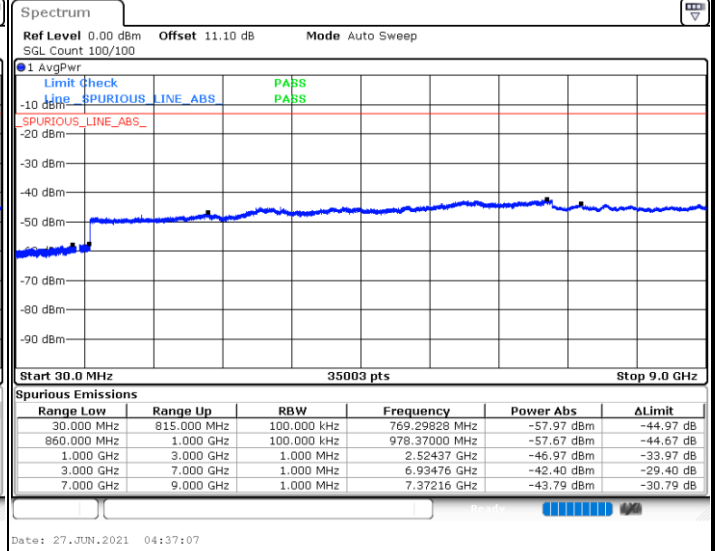
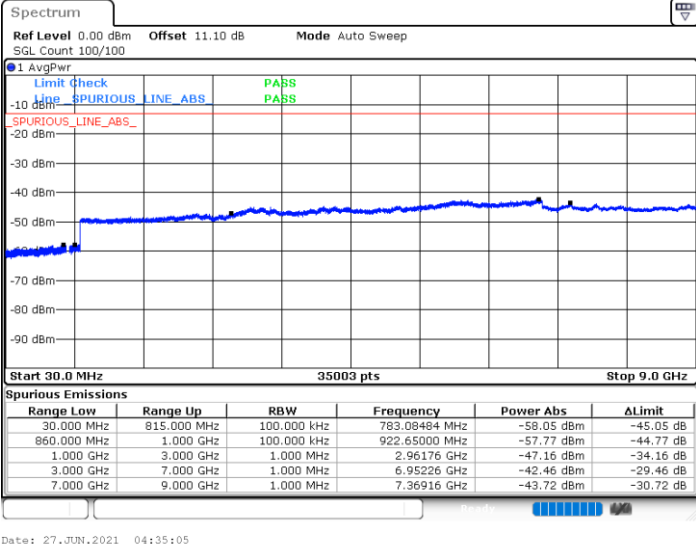




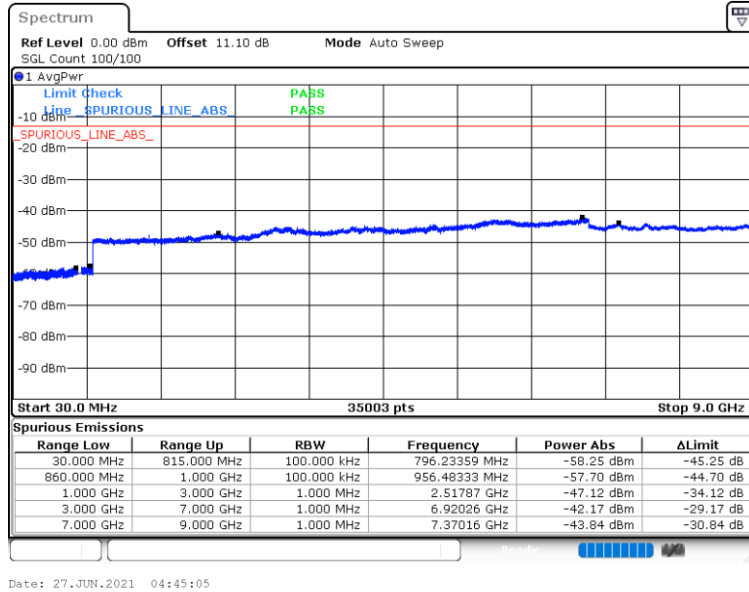
LTE Band 5 / 10MHz

Lowest Channel / QPSK

Middle Channel / QPSK



Highest Channel / QPSK





Frequency Stability

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0039	PASS
40	Normal Voltage	0.0038	
30	Normal Voltage	0.0135	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0121	
0	Normal Voltage	0.0142	
-10	Normal Voltage	0.0141	
-20	Normal Voltage	0.0029	
-30	Normal Voltage	0.0093	
20	Maximum Voltage	0.0037	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0037	

Note:

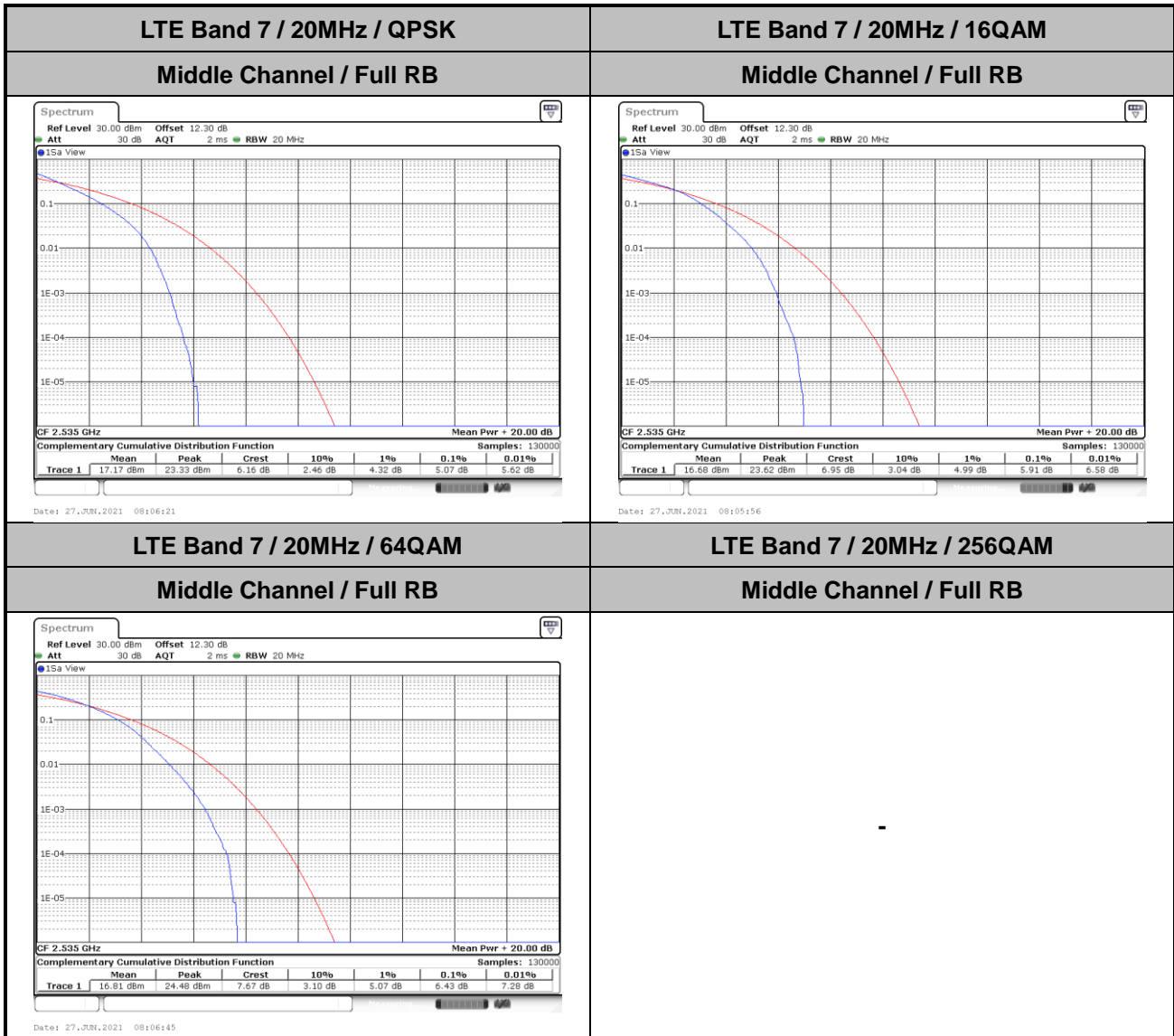
- 1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.67 V. ; Maximum Voltage =4.26 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 7

Peak-to-Average Ratio

Mode	LTE Band 7 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.07	5.91	6.43	-	PASS





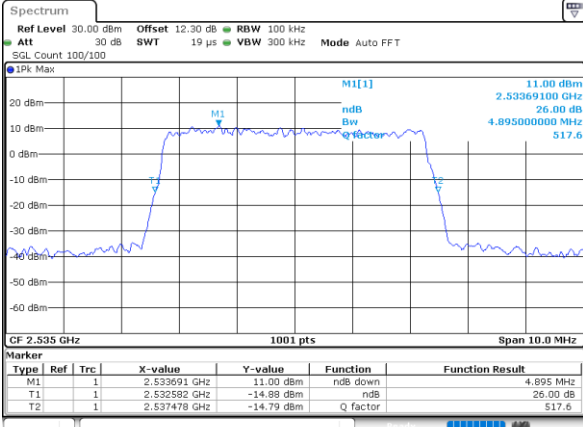
26dB Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.90	4.91	9.77	9.79	14.51	14.42	18.82	18.74
Mode	LTE Band 7 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.95	-	9.71	-	14.48	-	18.82	-



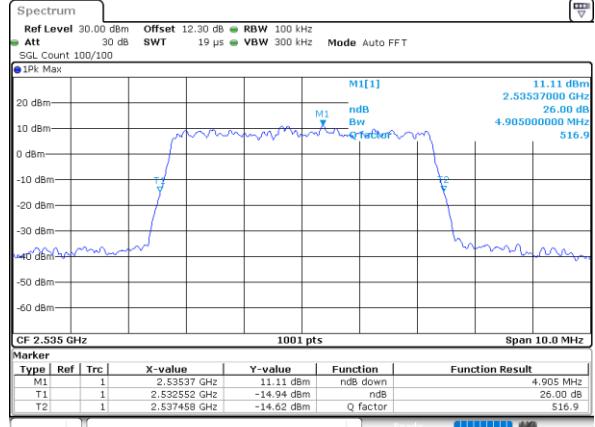
LTE Band 7

Middle Channel / 5MHz / QPSK



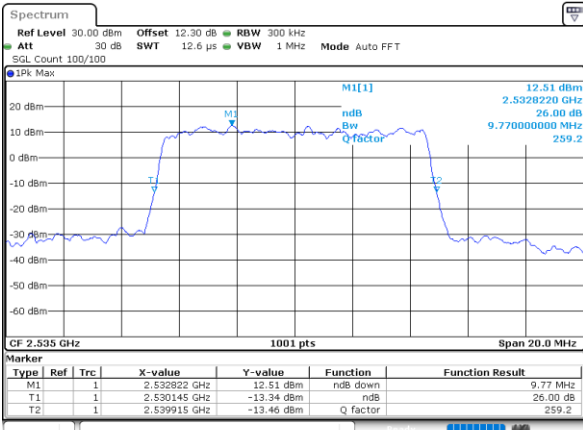
Date: 27_JUN.2021 07:27:44

Middle Channel / 5MHz / 16QAM



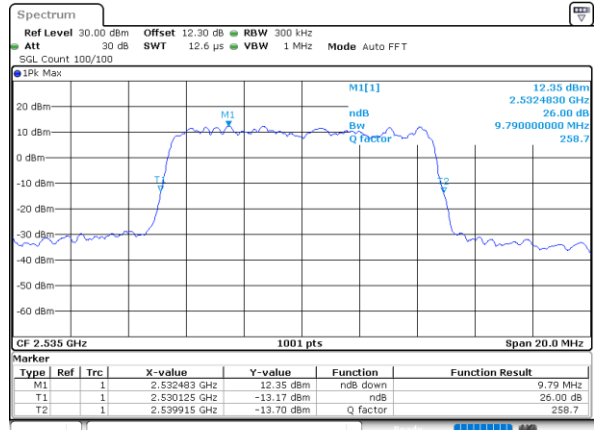
Date: 27_JUN.2021 07:28:05

Middle Channel / 10MHz / QPSK



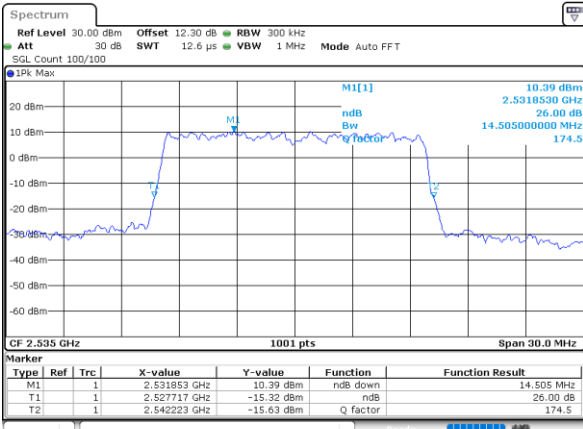
Date: 27_JUN.2021 07:38:08

Middle Channel / 10MHz / 16QAM



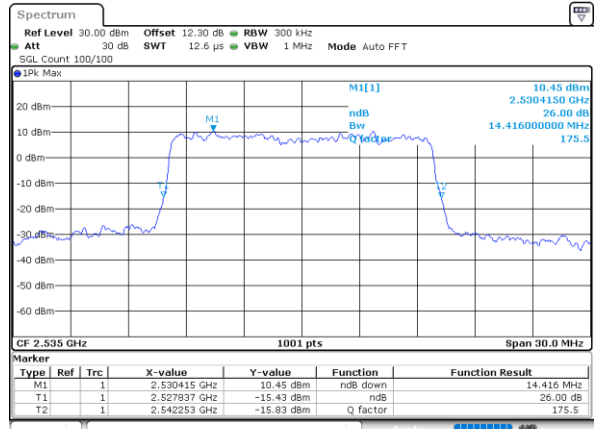
Date: 27_JUN.2021 07:38:28

Middle Channel / 15MHz / QPSK



Date: 27_JUN.2021 07:48:34

Middle Channel / 15MHz / 16QAM

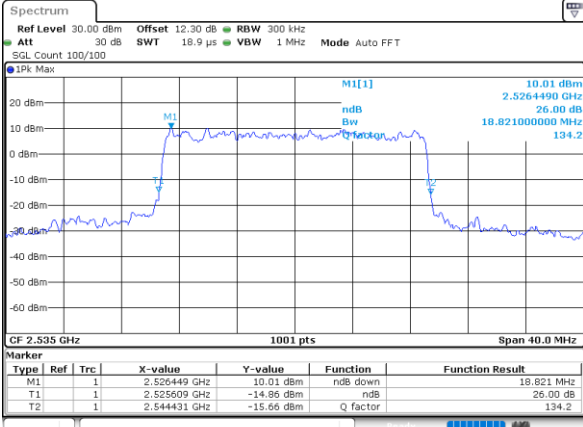


Date: 27_JUN.2021 07:48:55



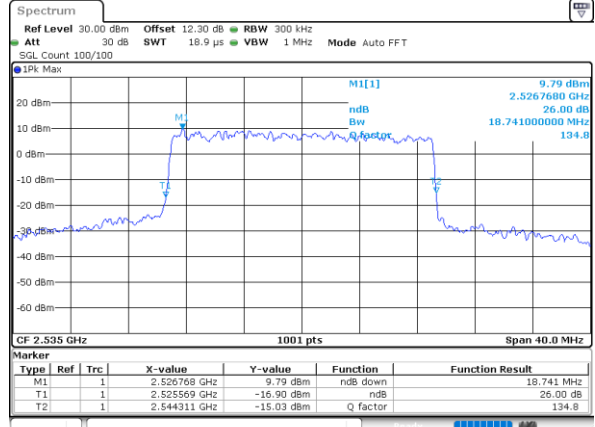
LTE Band 7

Middle Channel / 20MHz / QPSK



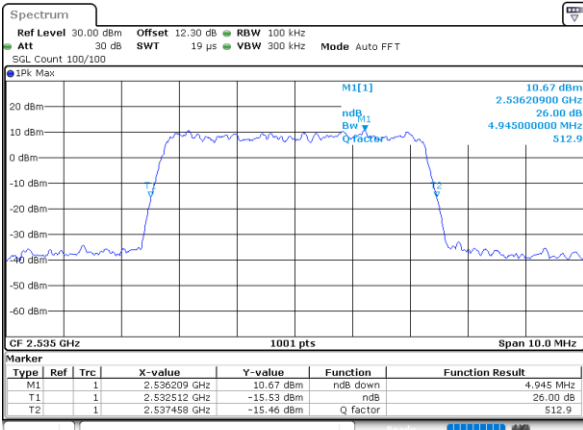
Date: 27_JUN,2021 07:59:01

Middle Channel / 20MHz / 16QAM



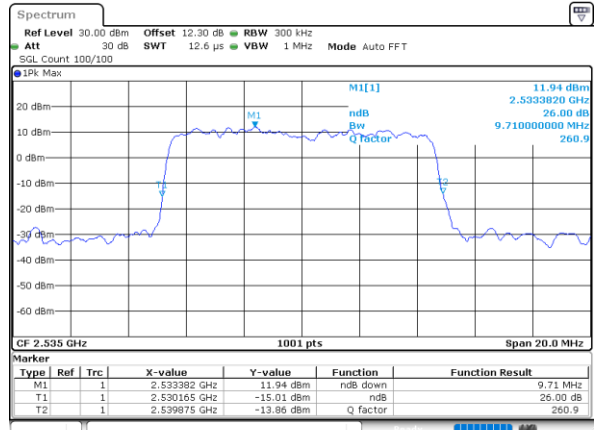
Date: 27_JUN,2021 07:59:122

Middle Channel / 5MHz / 64QAM



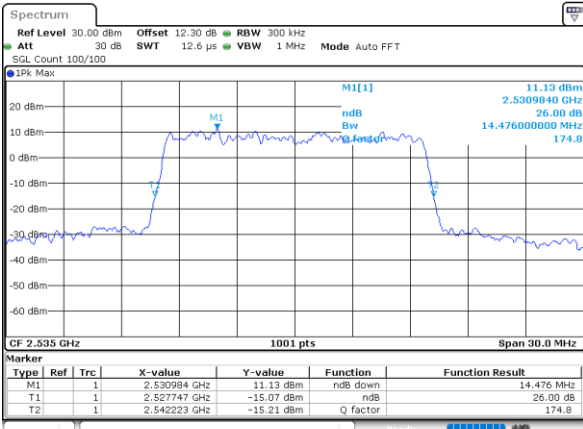
Date: 27_JUN,2021 07:33:24

Middle Channel / 10MHz / 64QAM



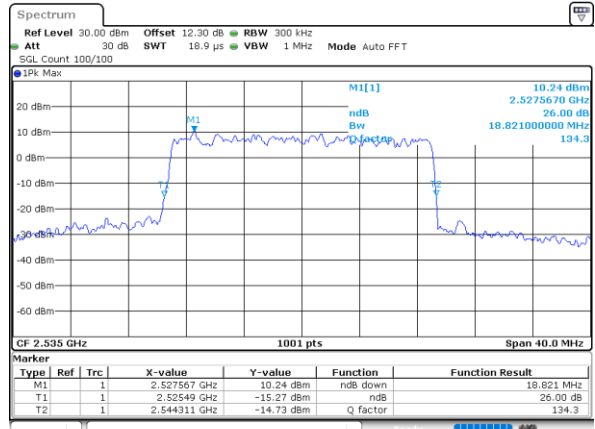
Date: 27_JUN,2021 07:43:148

Middle Channel / 15MHz / 64QAM



Date: 27_JUN,2021 07:54:15

Middle Channel / 20MHz / 64QAM



Date: 27_JUN,2021 08:04:42



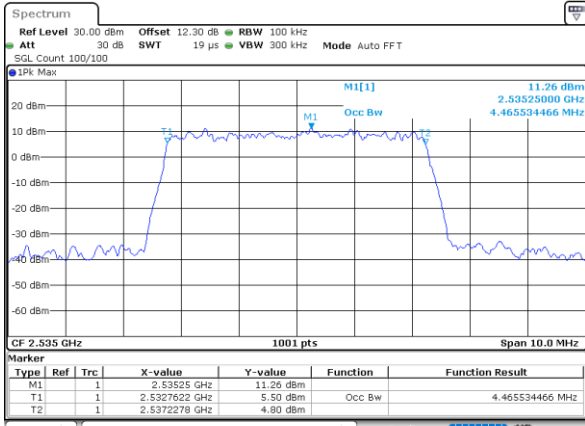
Occupied Bandwidth

Mode	LTE Band 7 : 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	-	-	-	-	4.47	4.47	9.03	9.05	13.49	13.43	17.94	17.86
Mode	LTE Band 7 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.49	-	9.05	-	13.43	-	17.86	-



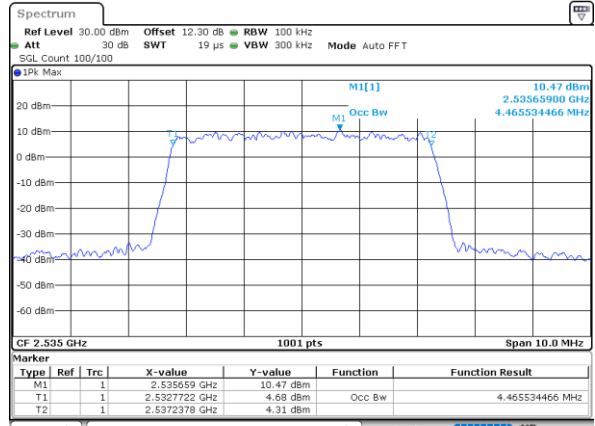
LTE Band 7

Middle Channel / 5MHz / QPSK



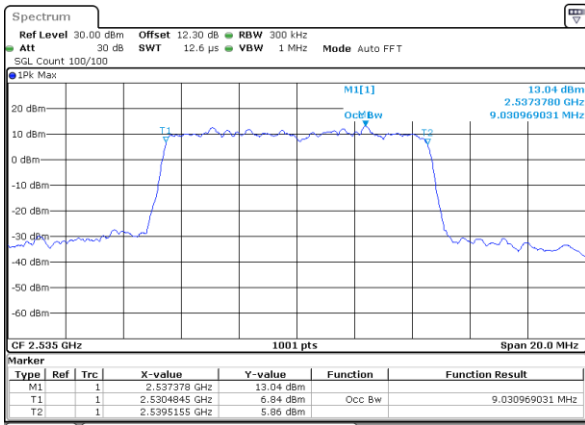
Date: 27_JUN.2021 07:26:59

Middle Channel / 5MHz / 16QAM



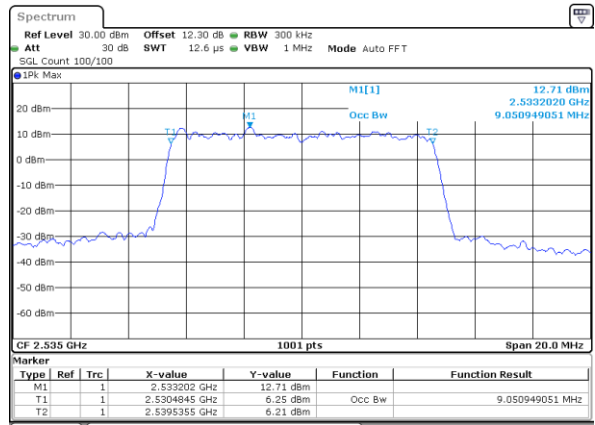
Date: 27_JUN.2021 07:27:122

Middle Channel / 10MHz / QPSK



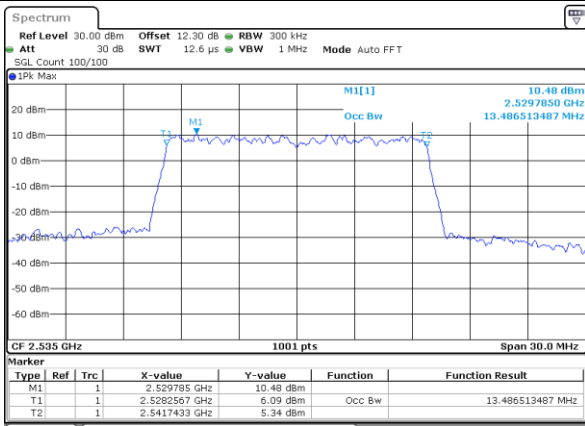
Date: 27_JUN.2021 07:37:23

Middle Channel / 10MHz / 16QAM



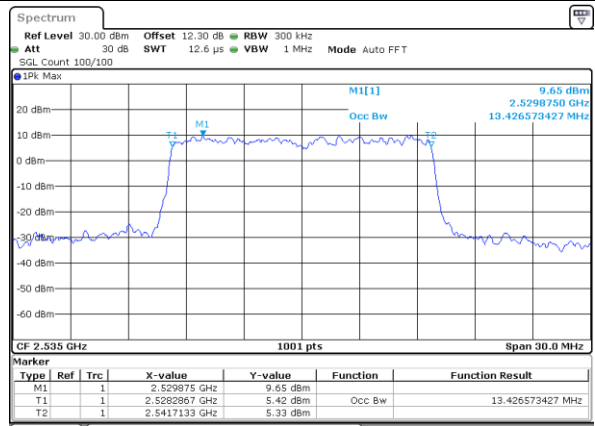
Date: 27_JUN.2021 07:37:445

Middle Channel / 15MHz / QPSK



Date: 27_JUN.2021 07:47:49

Middle Channel / 15MHz / 16QAM

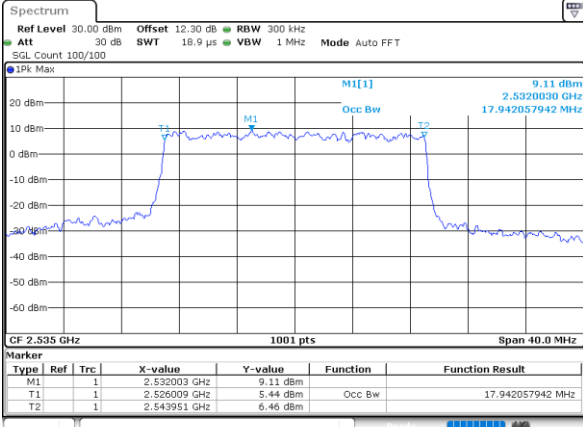


Date: 27_JUN.2021 07:48:11



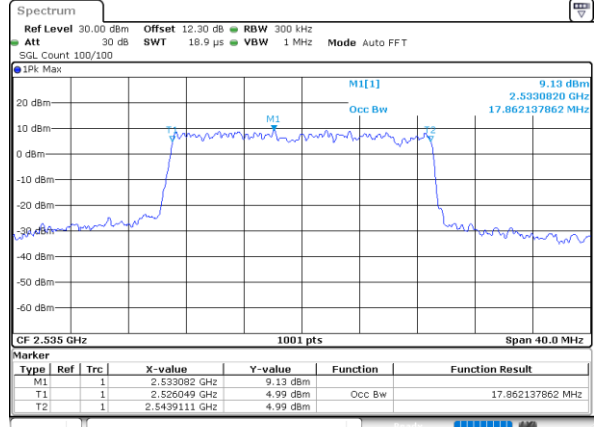
LTE Band 7

Middle Channel / 20MHz / QPSK



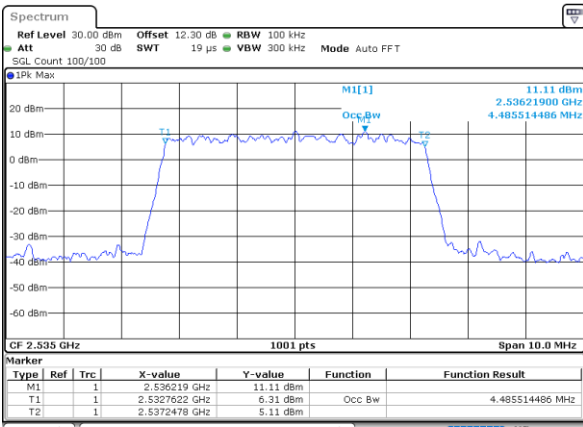
Date: 27_JUN.2021 07:58:16

Middle Channel / 20MHz / 16QAM



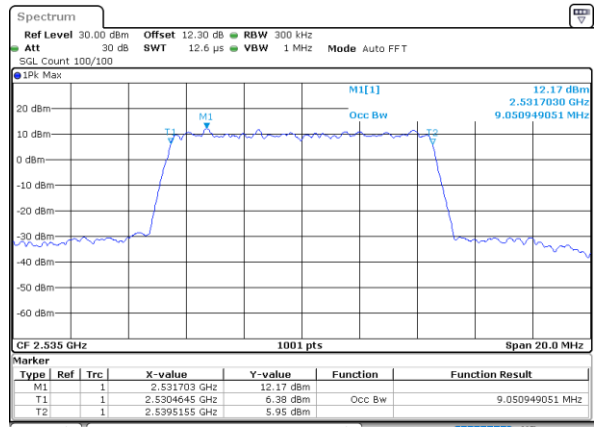
Date: 27_JUN.2021 07:58:18

Middle Channel / 5MHz / 64QAM



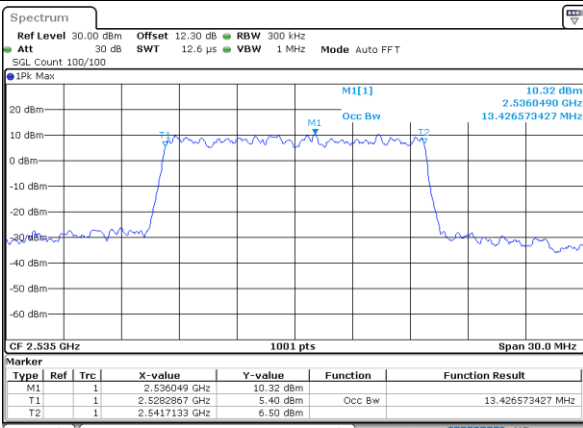
Date: 27_JUN.2021 07:53:01

Middle Channel / 10MHz / 64QAM



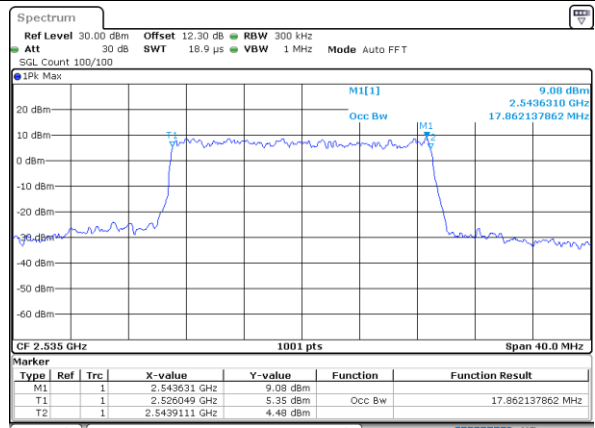
Date: 27_JUN.2021 07:43:26

Middle Channel / 15MHz / 64QAM



Date: 27_JUN.2021 07:53:52

Middle Channel / 20MHz / 64QAM



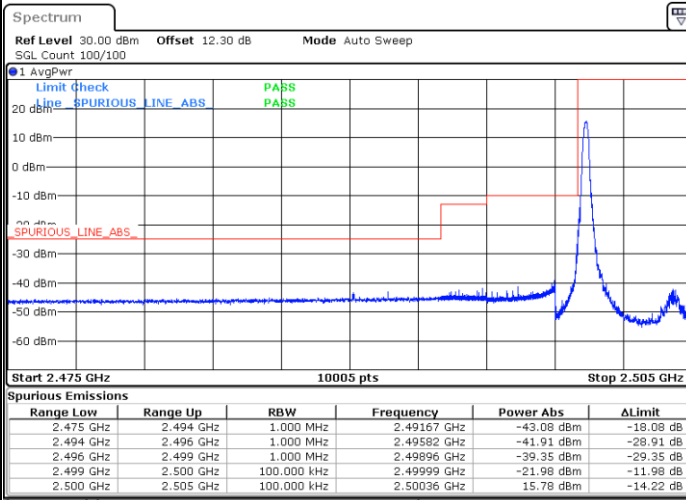
Date: 27_JUN.2021 08:04:20



Conducted Band Edge

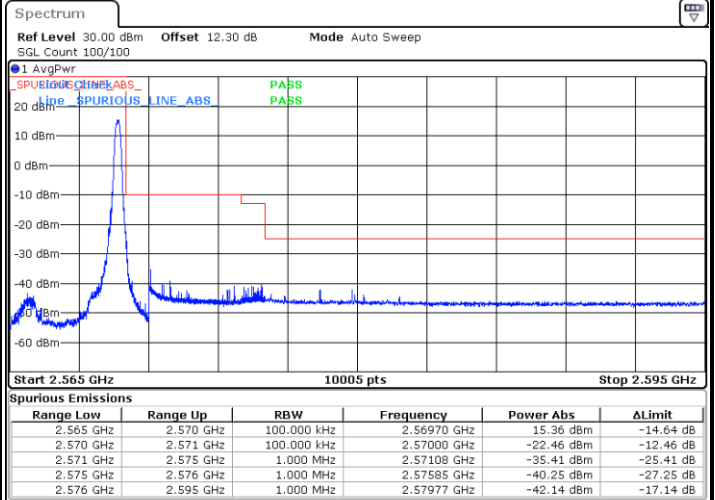
LTE Band 7 / 5MHz / QPSK

Lowest Band Edge / 1 RB



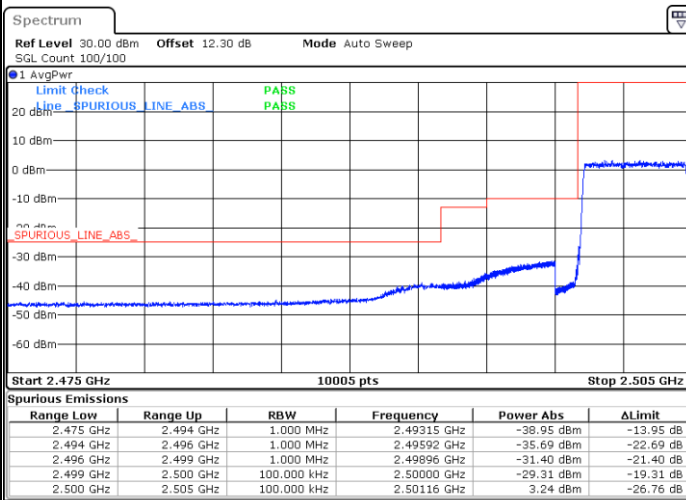
Date: 27.JUN.2021 07:23:13

Highest Band Edge / 1 RB



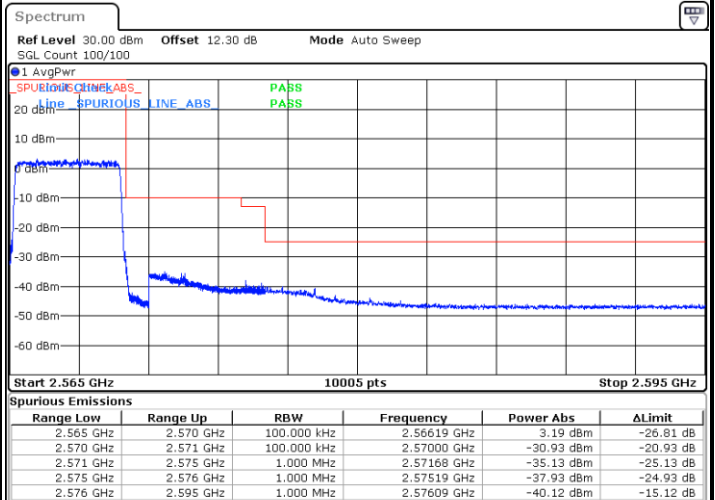
Date: 27.JUN.2021 07:29:30

Lowest Band Edge / Full RB



Date: 27.JUN.2021 07:25:10

Highest Band Edge / Full RB

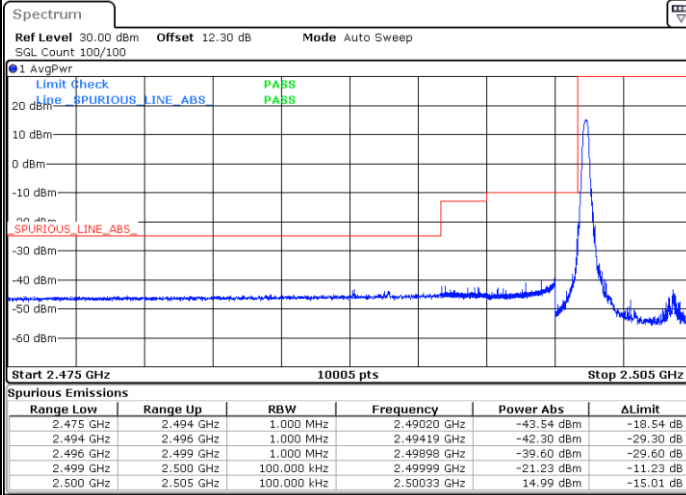


Date: 27.JUN.2021 07:30:22



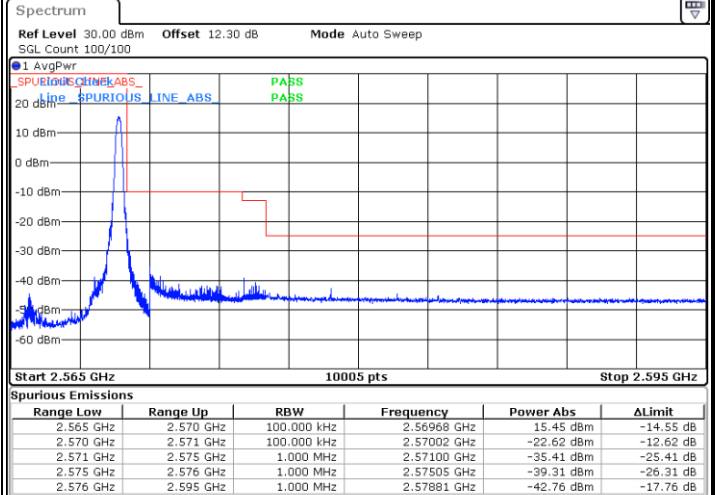
LTE Band 7 / 5MHz / 16QAM

Lowest Band Edge / 1RB



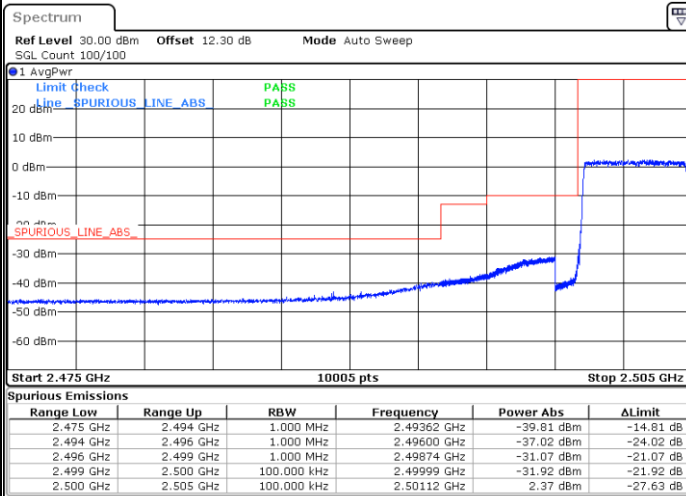
Date: 27.JUN.2021 07:24:43

Highest Band Edge / 1 RB



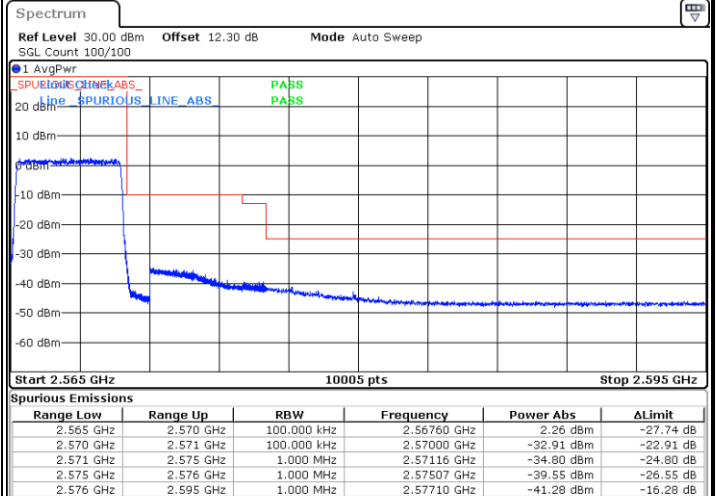
Date: 27.JUN.2021 07:29:56

Lowest Band Edge / Full RB



Date: 27.JUN.2021 07:25:37

Highest Band Edge / Full RB

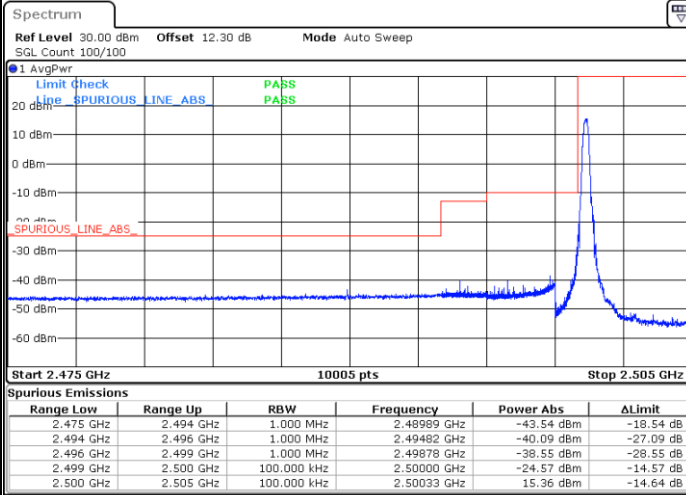


Date: 27.JUN.2021 07:30:47



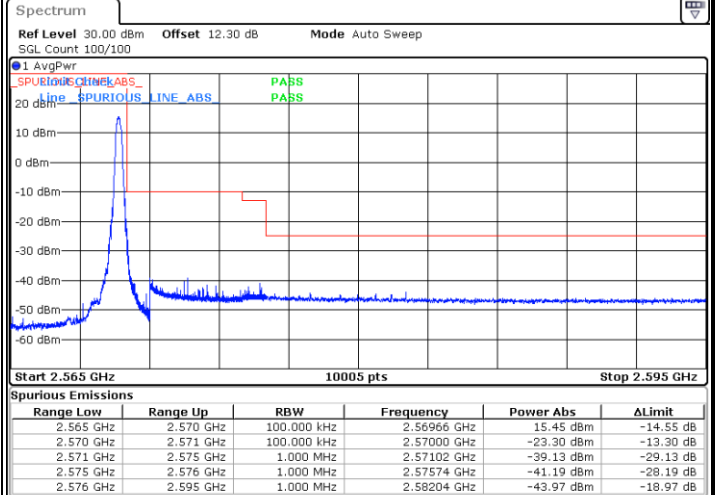
LTE Band 7 / 5MHz / 64QAM

Lowest Band Edge / 1RB



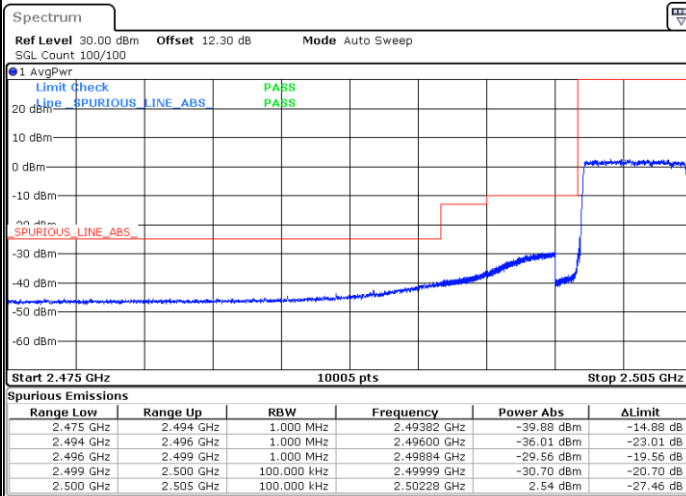
Date: 27.JUN.2021 07:32:14

Highest Band Edge / 1 RB



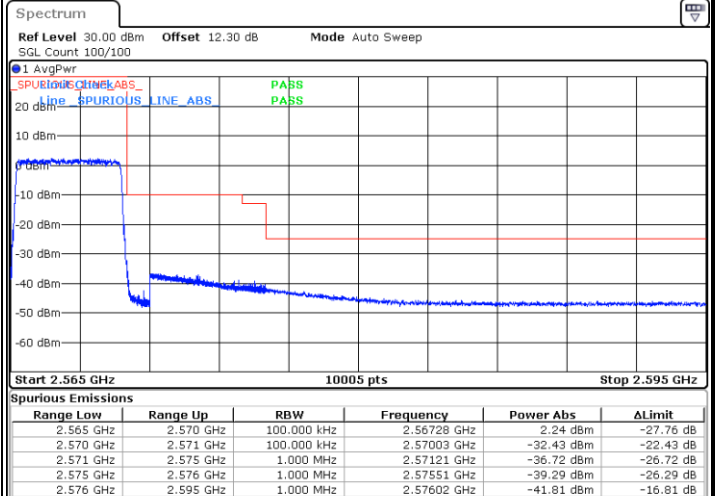
Date: 27.JUN.2021 07:33:49

Lowest Band Edge / Full RB



Date: 27.JUN.2021 07:32:40

Highest Band Edge / Full RB

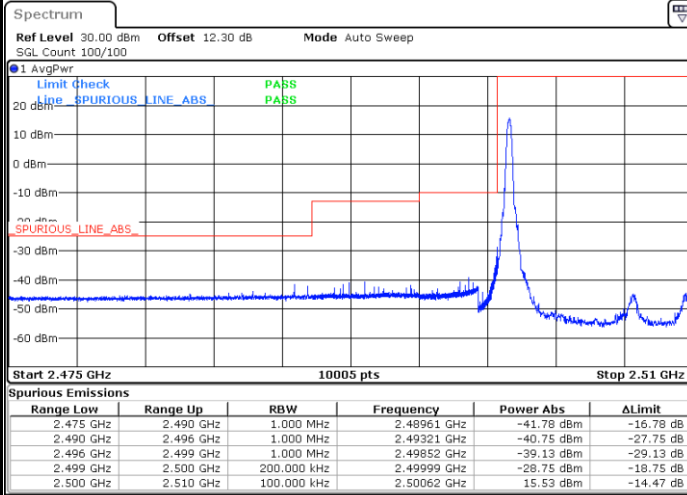


Date: 27.JUN.2021 07:34:15



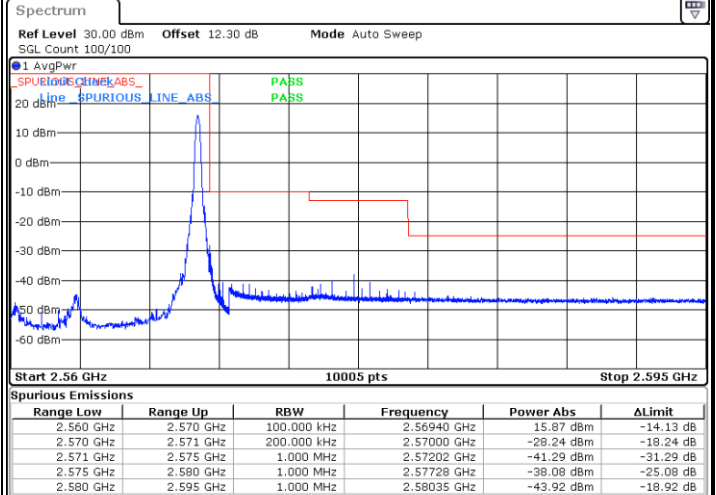
LTE Band 7 / 10MHz / QPSK

Lowest Band Edge / 1 RB



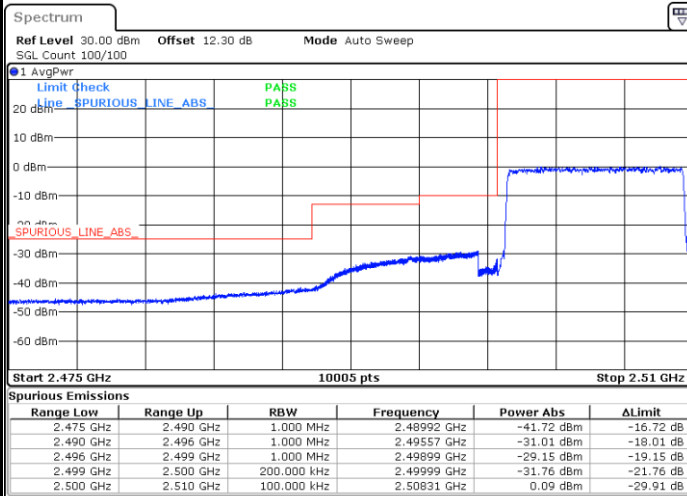
Date: 27.JUN.2021 07:34:43

Highest Band Edge / 1 RB



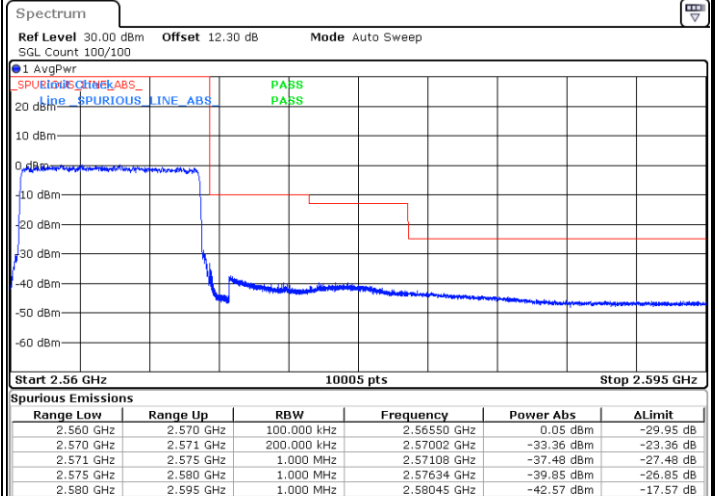
Date: 27.JUN.2021 07:39:54

Lowest Band Edge / Full RB



Date: 27.JUN.2021 07:35:35

Highest Band Edge / Full RB

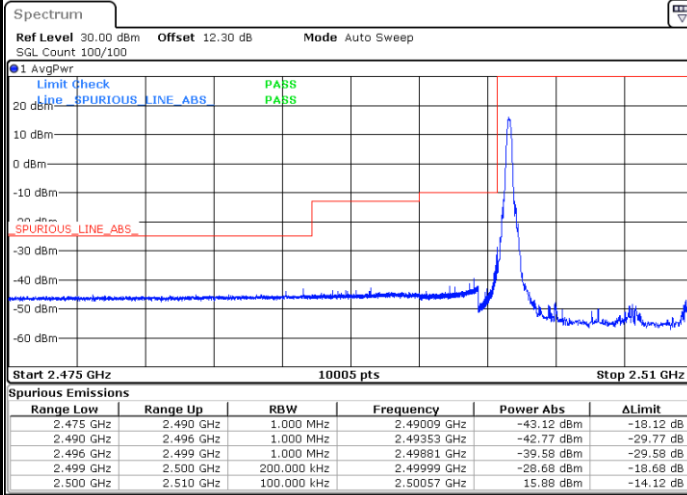


Date: 27.JUN.2021 07:40:46



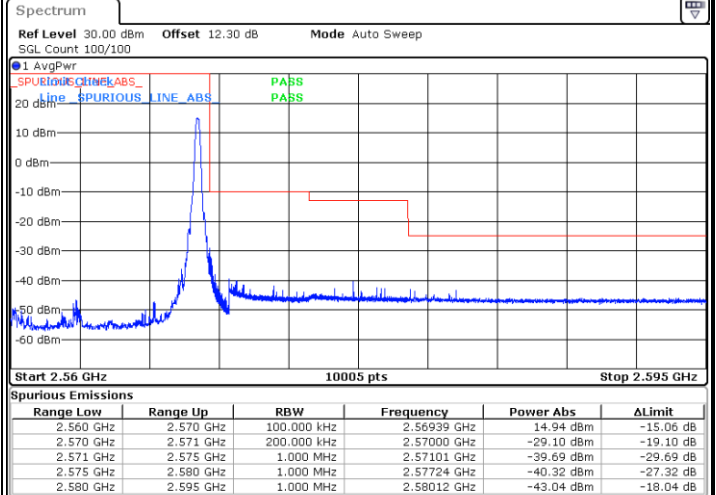
LTE Band 7 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



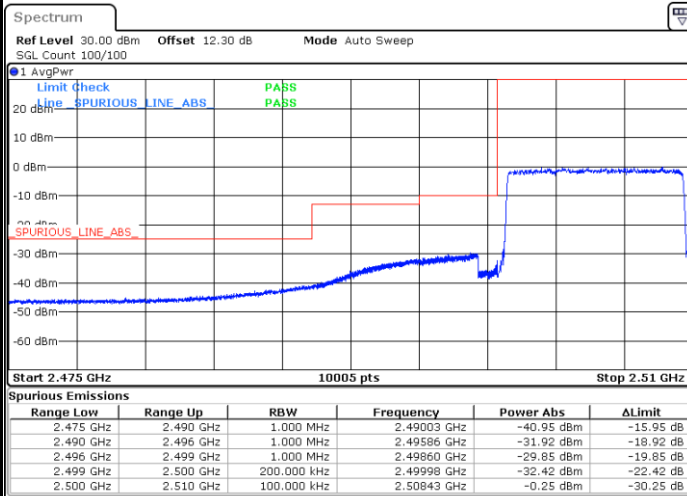
Date: 27.JUN.2021 07:35:09

Highest Band Edge / 1 RB



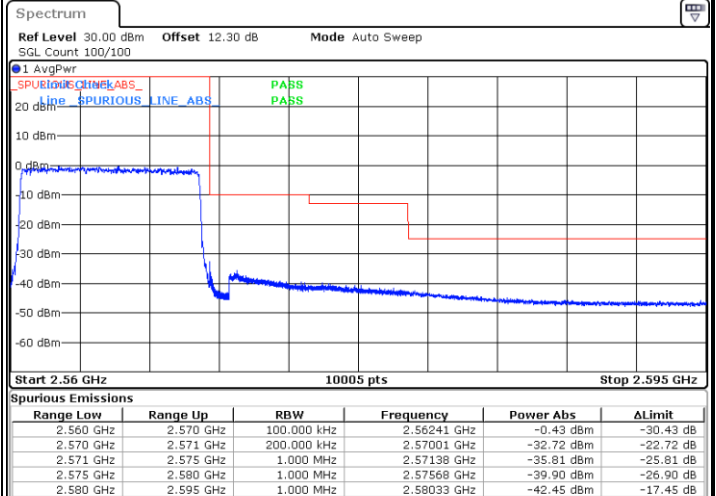
Date: 27.JUN.2021 07:40:20

Lowest Band Edge / Full RB



Date: 27.JUN.2021 07:36:00

Highest Band Edge / Full RB

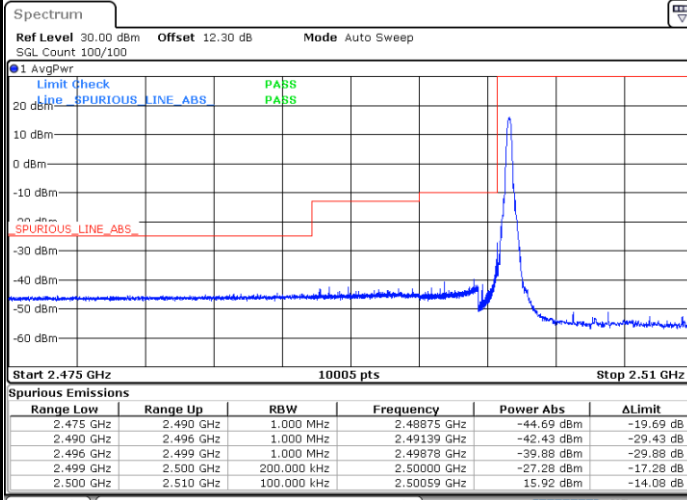


Date: 27.JUN.2021 07:41:12



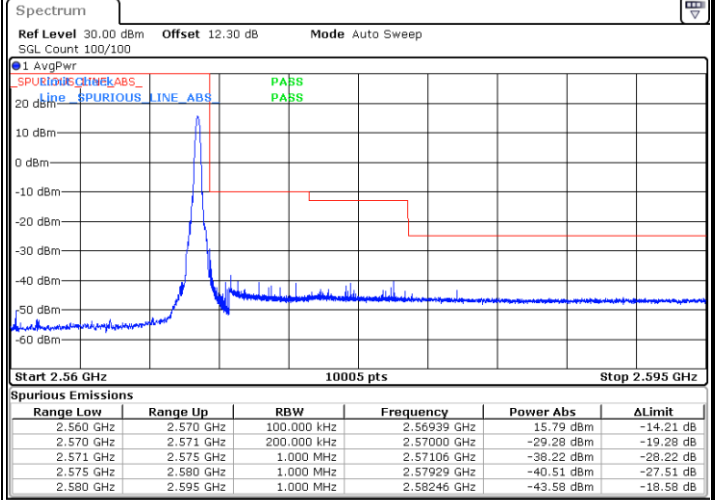
LTE Band 7 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



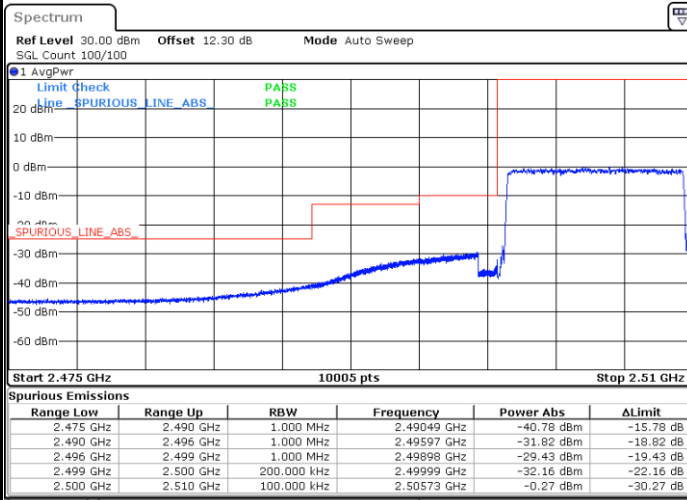
Date: 27.JUN.2021 07:42:38

Highest Band Edge / 1 RB



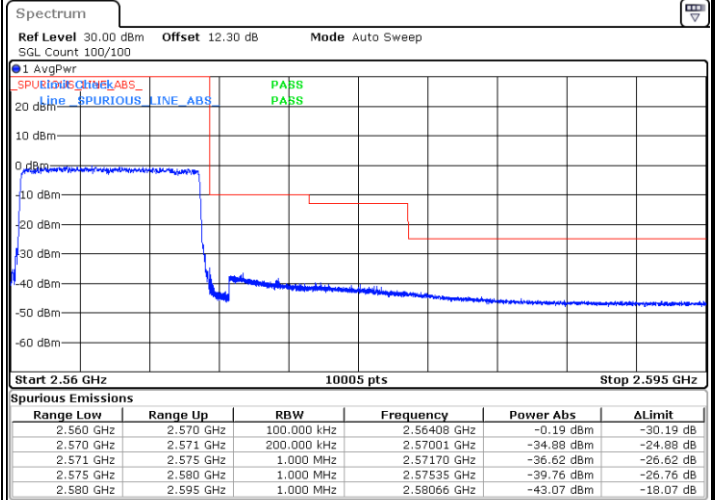
Date: 27.JUN.2021 07:44:13

Lowest Band Edge / Full RB



Date: 27.JUN.2021 07:43:04

Highest Band Edge / Full RB

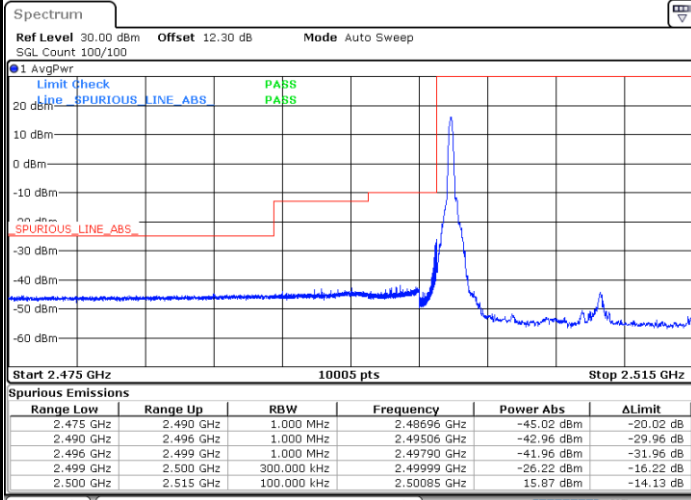


Date: 27.JUN.2021 07:44:39



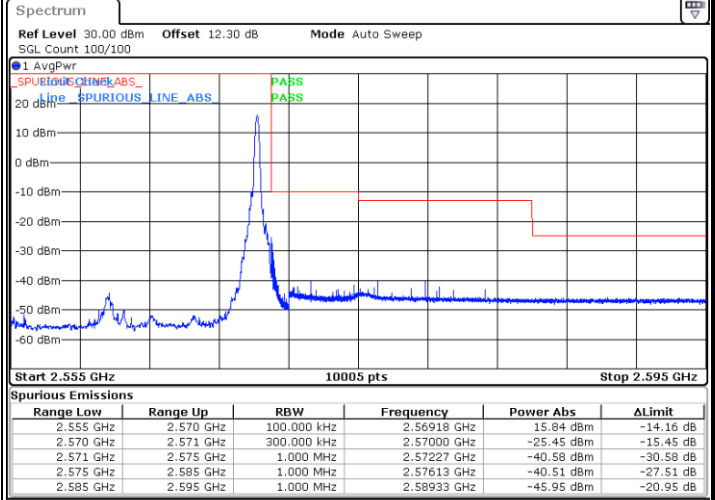
LTE Band 7 / 15MHz / QPSK

Lowest Band Edge / 1 RB



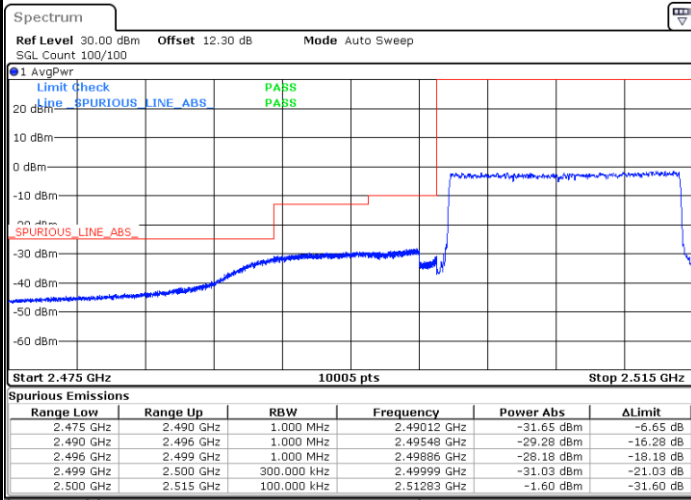
Date: 27.JUN.2021 07:45:07

Highest Band Edge / 1 RB



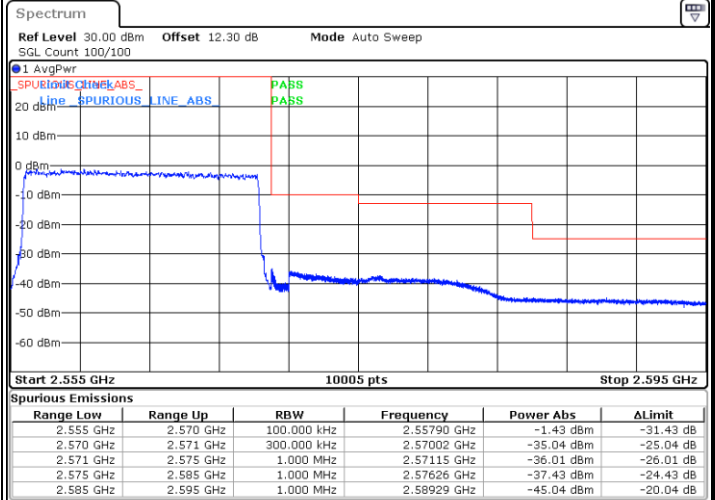
Date: 27.JUN.2021 07:50:20

Lowest Band Edge / Full RB



Date: 27.JUN.2021 07:46:00

Highest Band Edge / Full RB

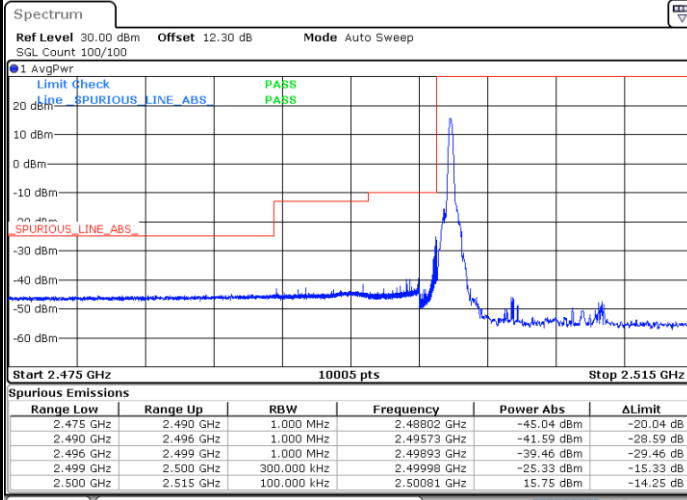


Date: 27.JUN.2021 07:51:12



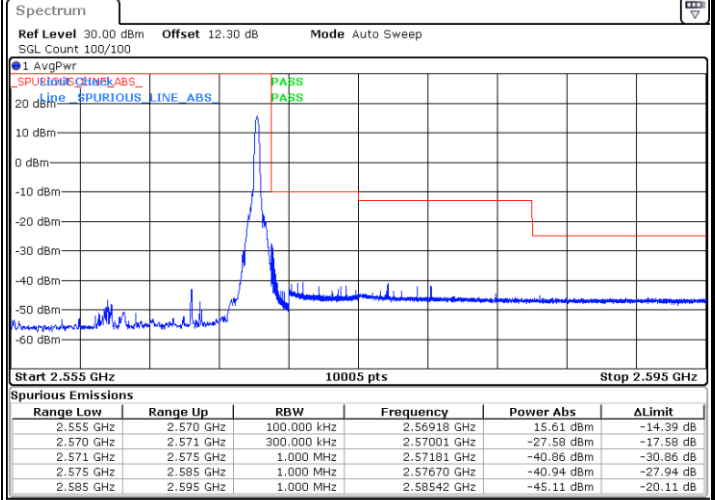
LTE Band 7 / 15MHz / 16QAM

Lowest Band Edge / 1 RB



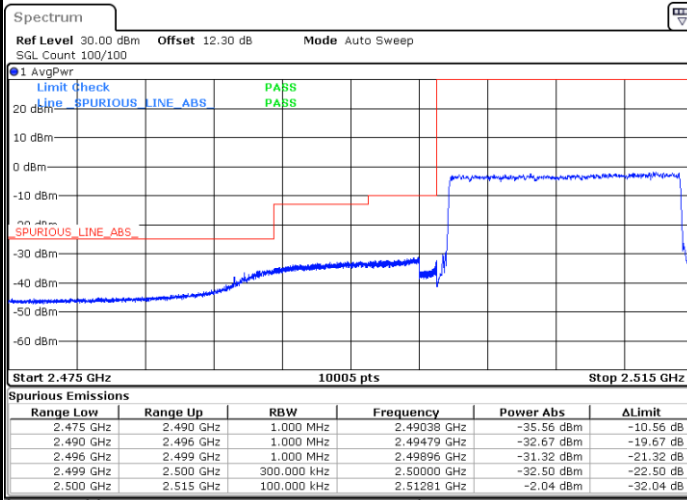
Date: 27. JUN. 2021 07:45:34

Highest Band Edge / 1 RB



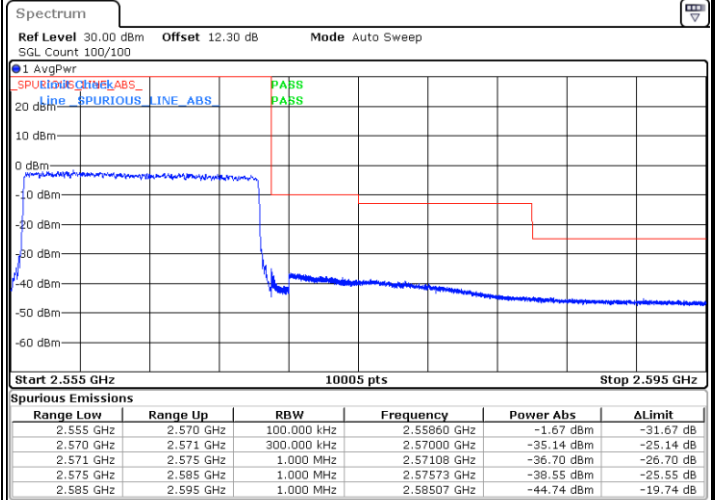
Date: 27. JUN. 2021 07:50:45

Lowest Band Edge / Full RB



Date: 27. JUN. 2021 07:46:27

Highest Band Edge / Full RB

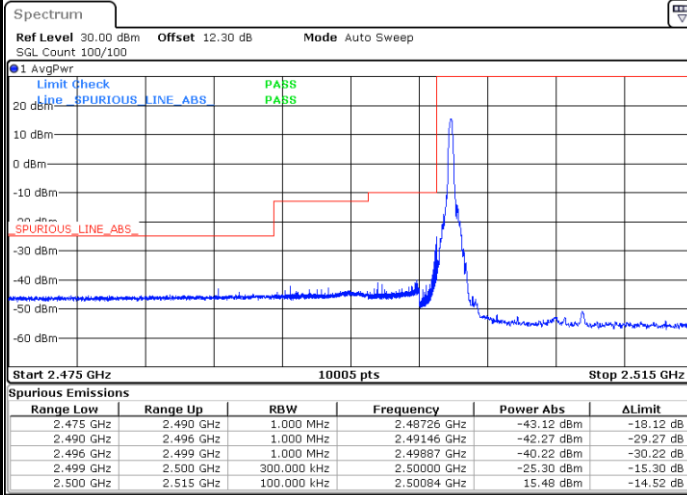


Date: 27. JUN. 2021 07:51:38



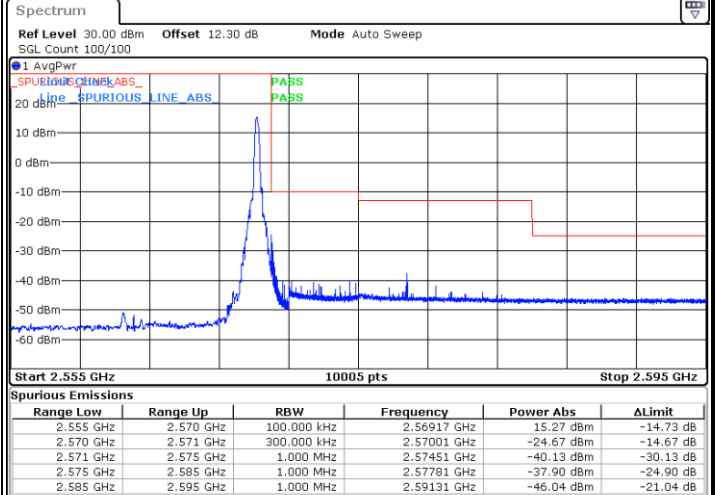
LTE Band 7 / 15MHz / 64QAM

Lowest Band Edge / 1 RB



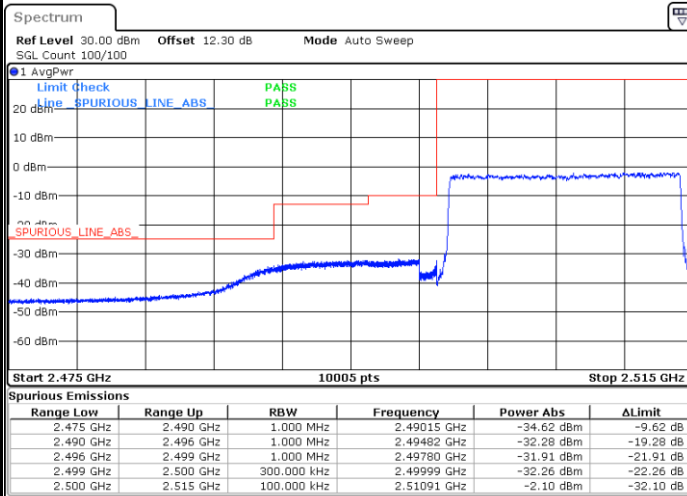
Date: 27.JUN.2021 07:53:04

Highest Band Edge / 1 RB



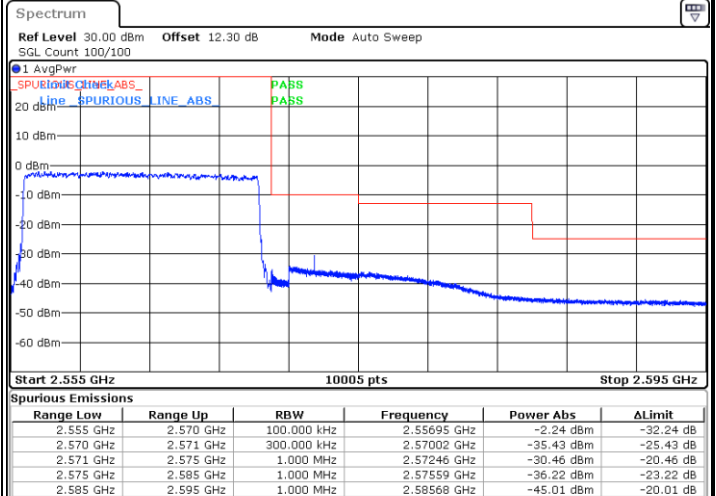
Date: 27.JUN.2021 07:54:41

Lowest Band Edge / Full RB



Date: 27.JUN.2021 07:53:31

Highest Band Edge / Full RB

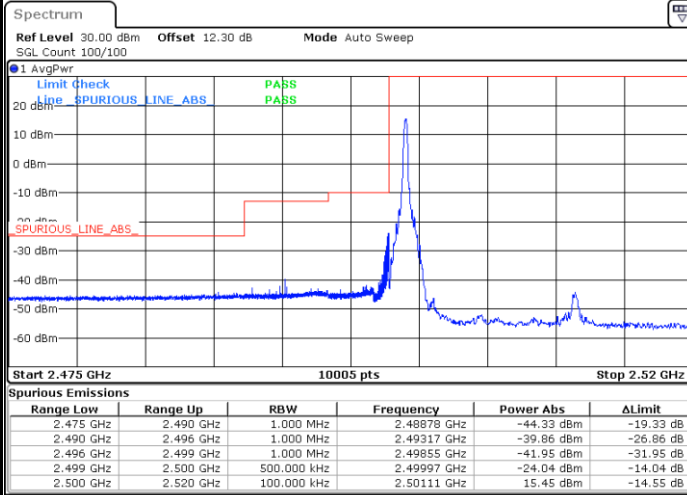


Date: 27.JUN.2021 07:55:07



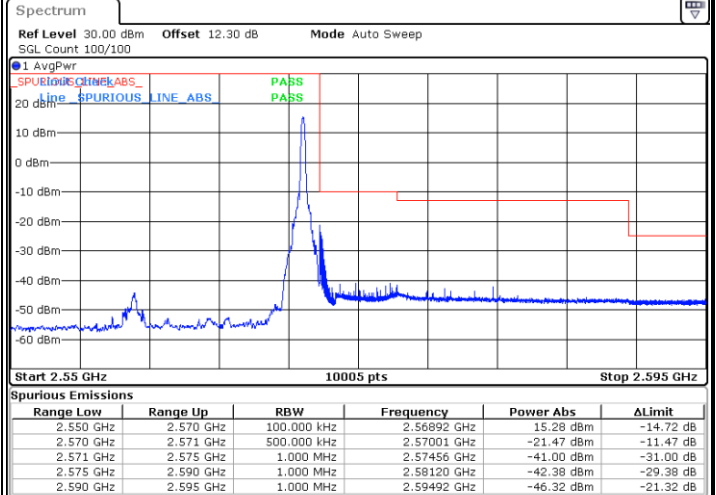
LTE Band 7 / 20MHz / QPSK

Lowest Band Edge / 1 RB



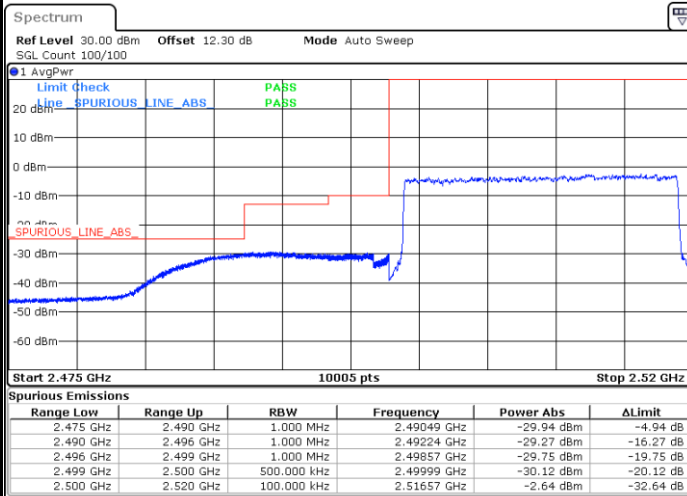
Date: 27.JUN.2021 07:55:34

Highest Band Edge / 1 RB



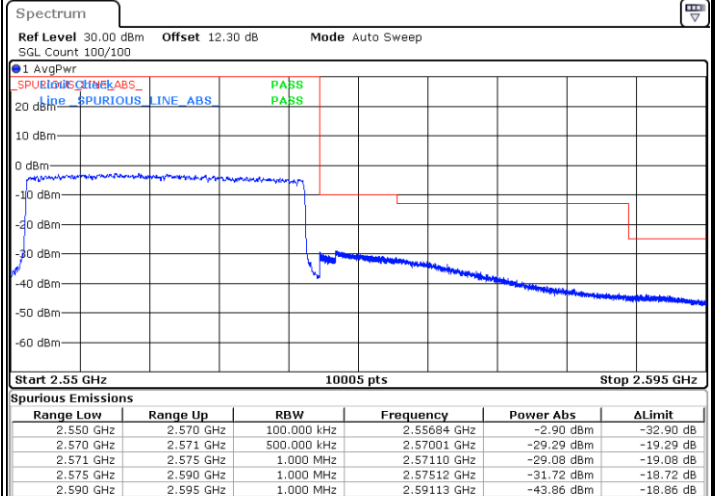
Date: 27.JUN.2021 08:00:46

Lowest Band Edge / Full RB



Date: 27.JUN.2021 07:56:27

Highest Band Edge / Full RB

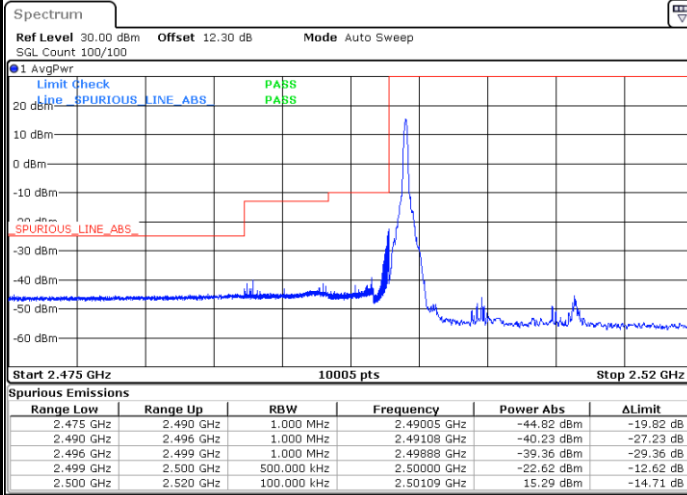


Date: 27.JUN.2021 08:02:04



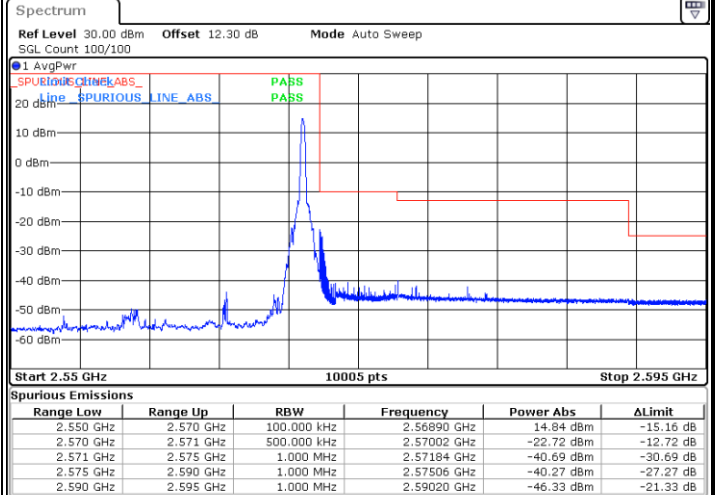
LTE Band 7 / 20MHz / 16QAM

Lowest Band Edge / 1 RB



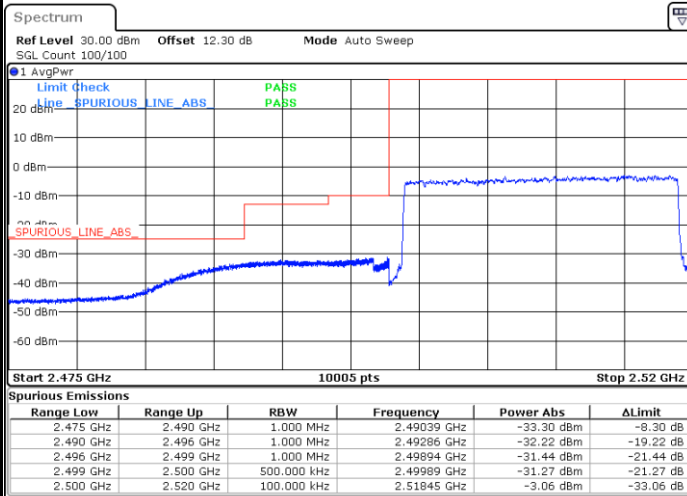
Date: 27.JUN.2021 07:56:01

Highest Band Edge / 1 RB



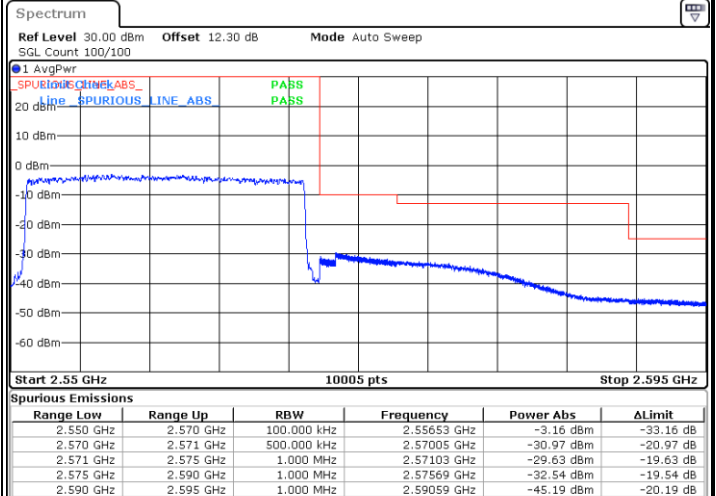
Date: 27.JUN.2021 08:01:12

Lowest Band Edge / Full RB



Date: 27.JUN.2021 07:56:54

Highest Band Edge / Full RB

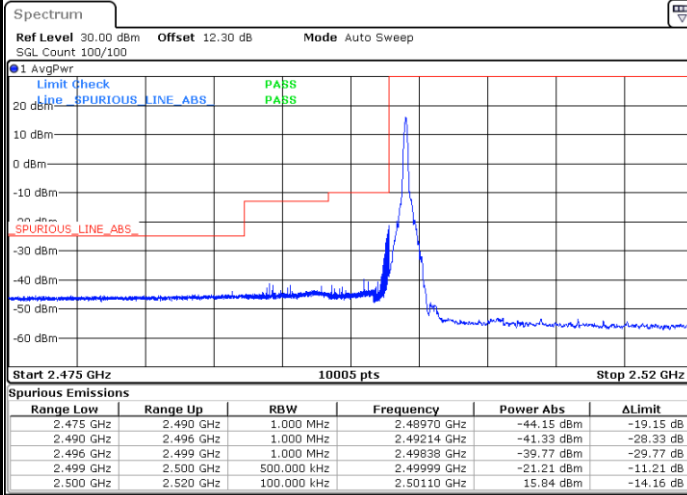


Date: 27.JUN.2021 08:01:38



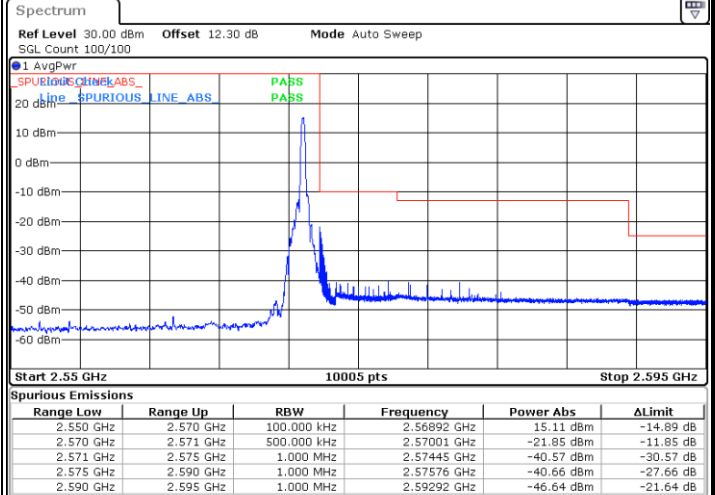
LTE Band 7 / 20MHz / 64QAM

Lowest Band Edge / 1 RB



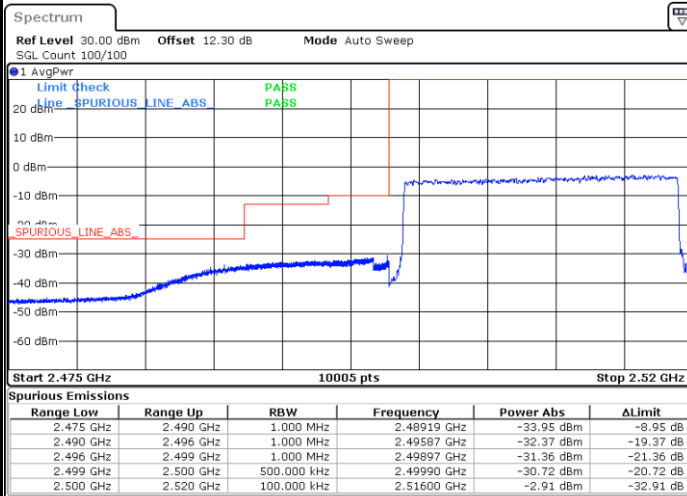
Date: 27.JUN.2021 08:03:31

Highest Band Edge / 1 RB



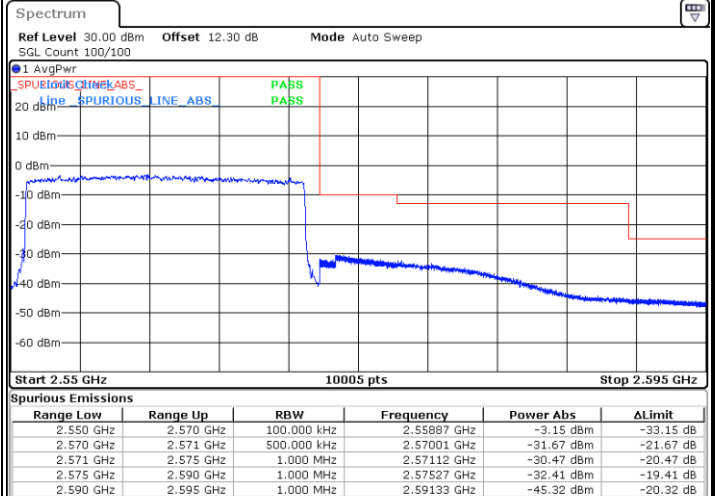
Date: 27.JUN.2021 08:05:08

Lowest Band Edge / Full RB



Date: 27.JUN.2021 08:03:57

Highest Band Edge / Full RB



Date: 27.JUN.2021 08:05:34



Conducted Spurious Emission

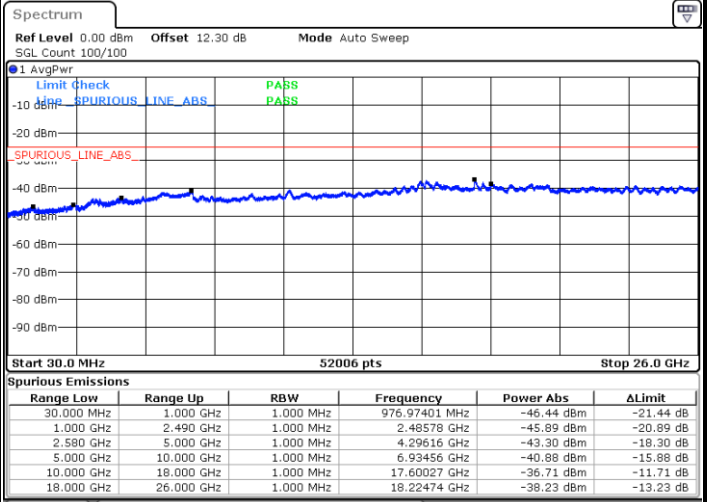
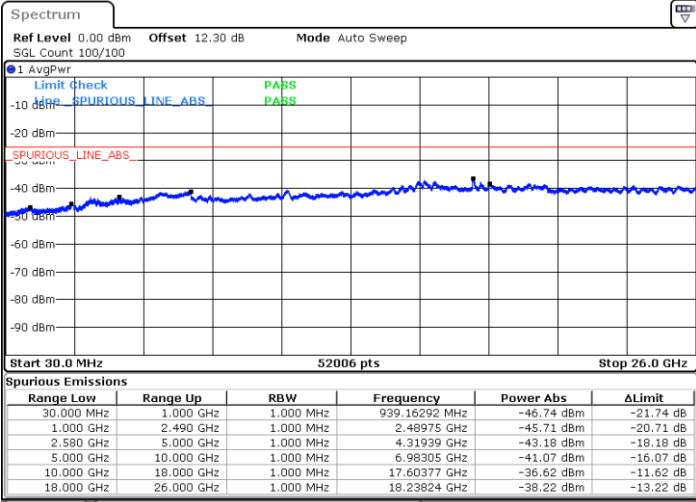




LTE Band 7 / 10MHz

Lowest Channel / QPSK

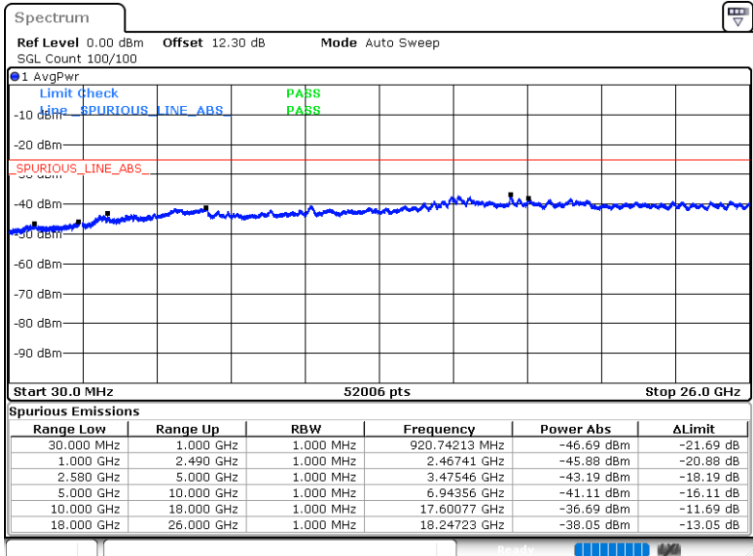
Middle Channel / QPSK



Date: 27.JUN.2021 07:37:00

Date: 27.JUN.2021 07:39:27

Highest Channel / QPSK



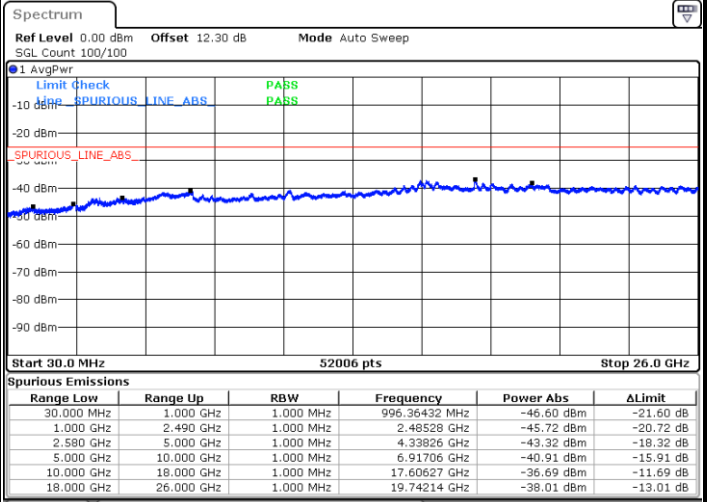
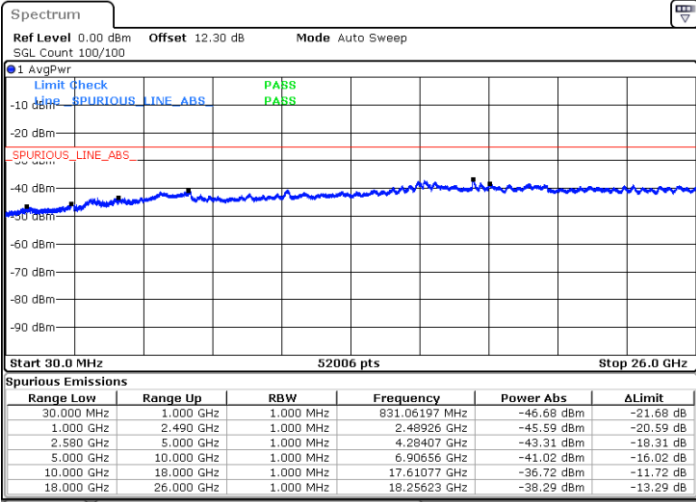
Date: 27.JUN.2021 07:42:11



LTE Band 7 / 15MHz

Lowest Channel / QPSK

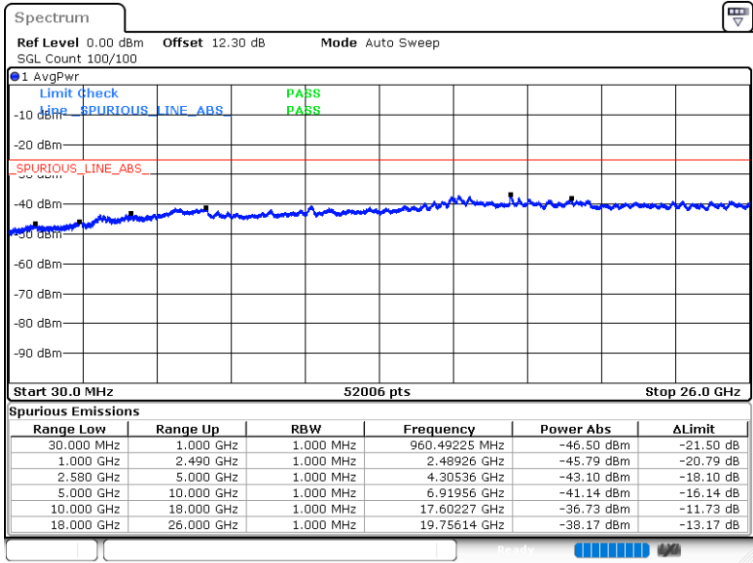
Middle Channel / QPSK



Date: 27.JUN.2021 07:47:26

Date: 27.JUN.2021 07:49:53

Highest Channel / QPSK



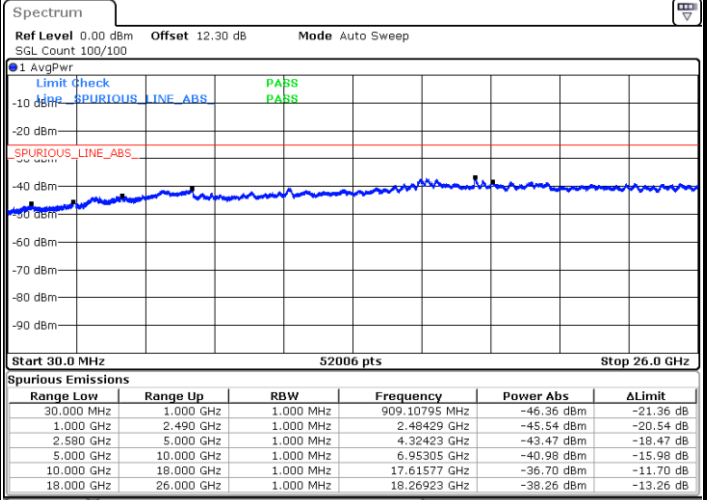
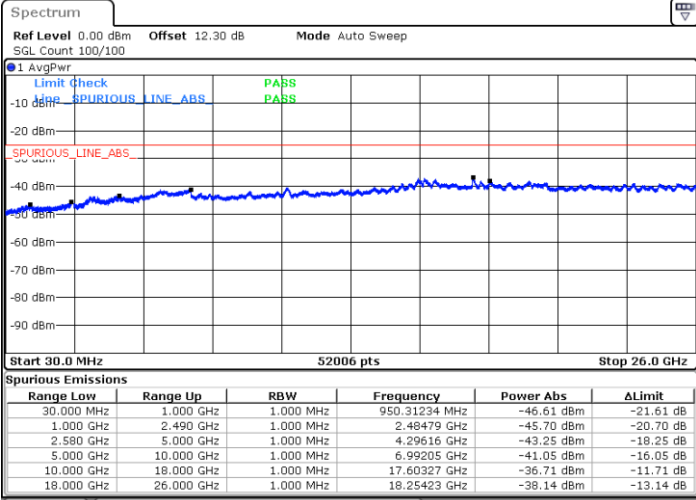
Date: 27.JUN.2021 07:52:37



LTE Band 7 / 20MHz

Lowest Channel / QPSK

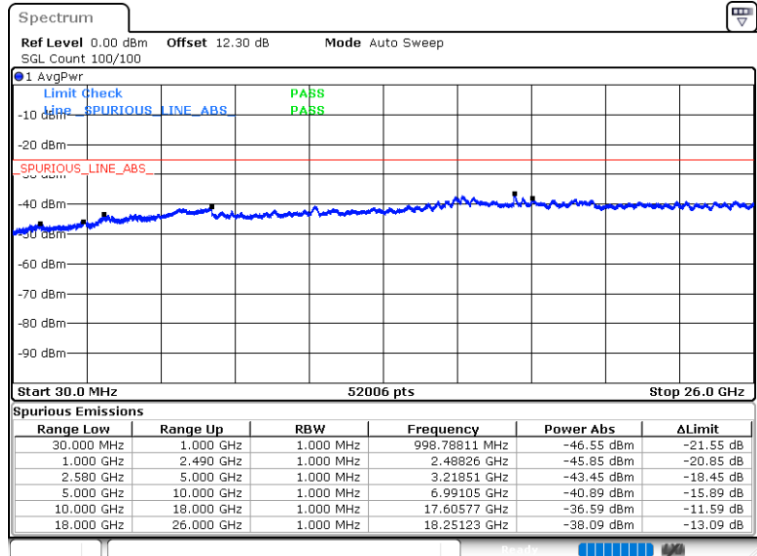
Middle Channel / QPSK



Date: 27.JUN.2021 07:57:53

Date: 27.JUN.2021 08:00:20

Highest Channel / QPSK



Date: 27.JUN.2021 08:03:03



Frequency Stability

Test Conditions		LTE Band 7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0080	
30	Normal Voltage	0.0079	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0003	
0	Normal Voltage	0.0067	
-10	Normal Voltage	0.0004	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0079	
20	Maximum Voltage	0.0070	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0009	

Note:

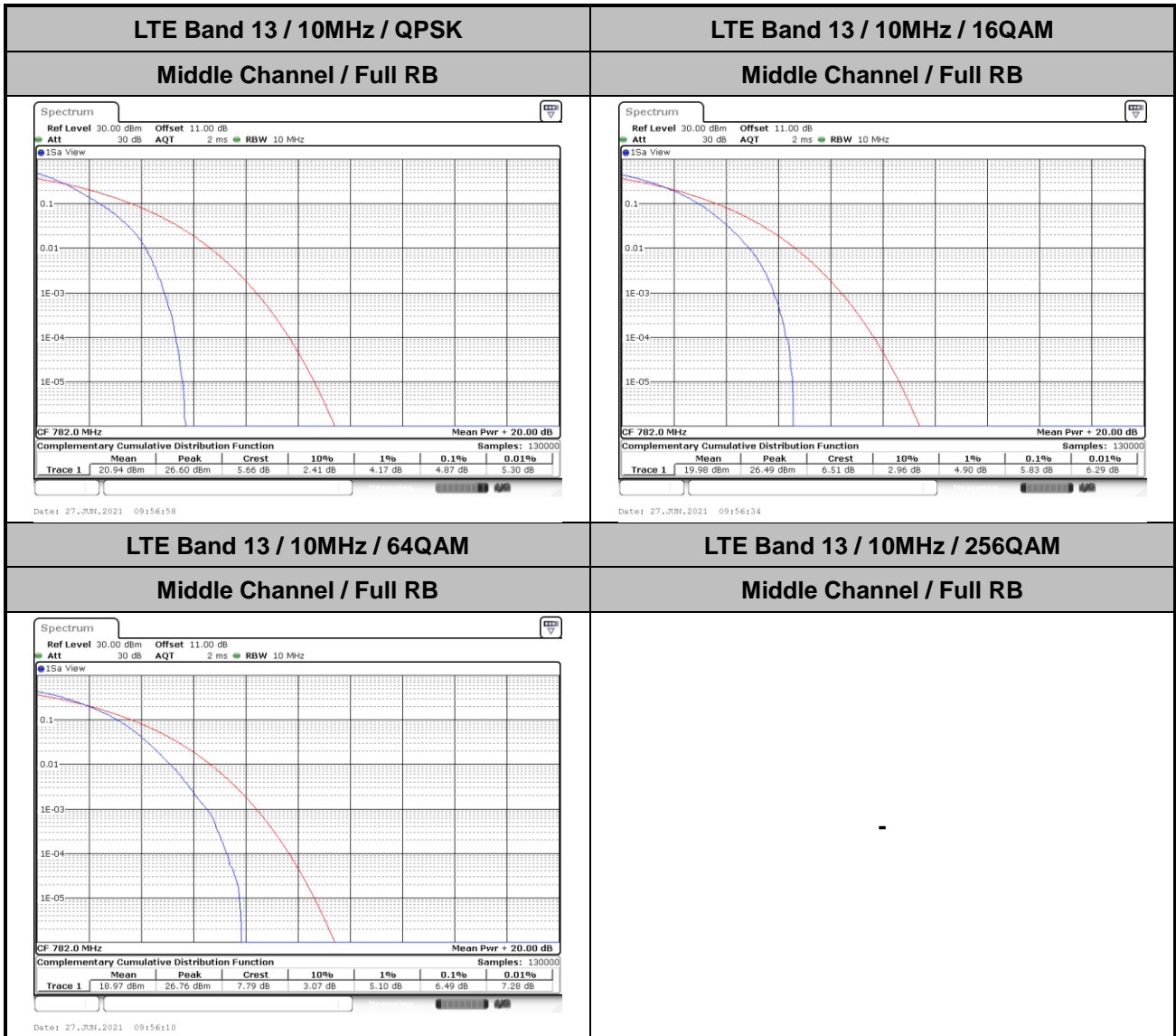
- 1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.67 V. ; Maximum Voltage =4.26 V.
- 2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	4.87	5.83	6.49	-	PASS





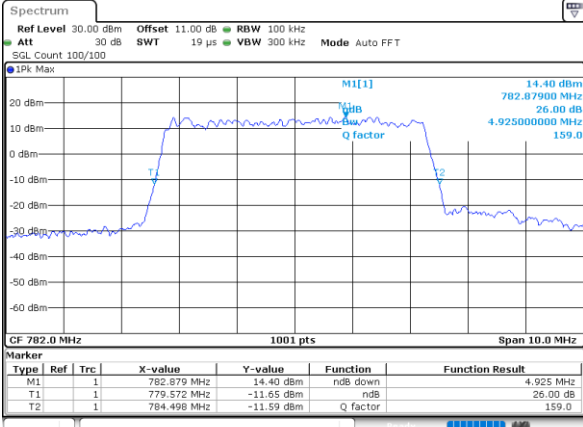
26dB Bandwidth

Mode	LTE Band 13 : 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	-	-	-	-	4.93	4.93	9.85	9.81	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.86	-	9.73	-	-	-	-	-



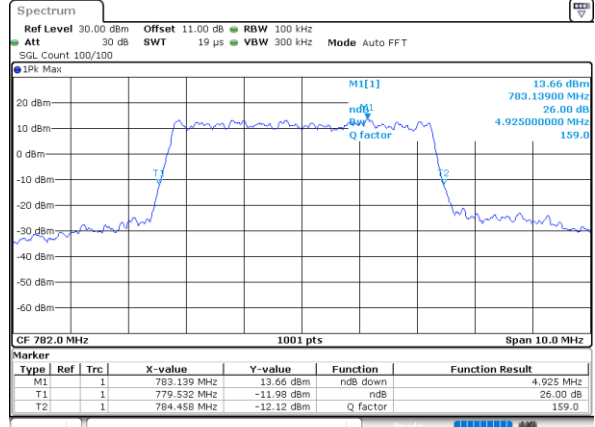
LTE Band 13

Middle Channel / 5MHz / QPSK



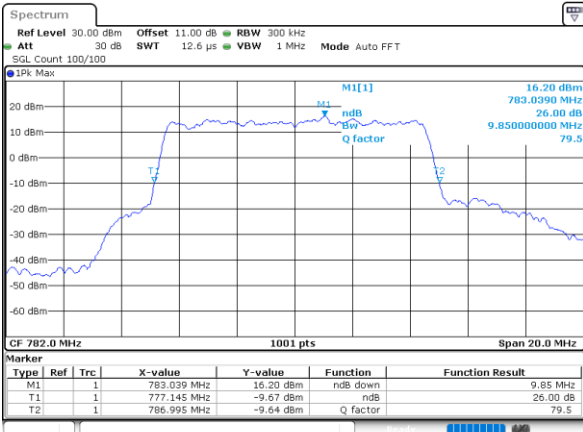
Date: 27_JUN.2021 09:19:27

Middle Channel / 5MHz / 16QAM



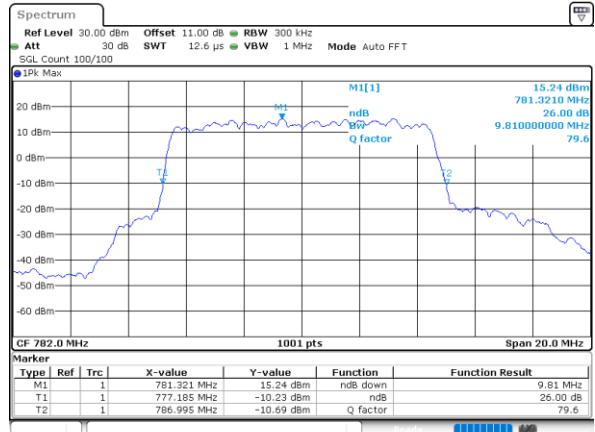
Date: 27_JUN.2021 09:19:48

Middle Channel / 10MHz / QPSK



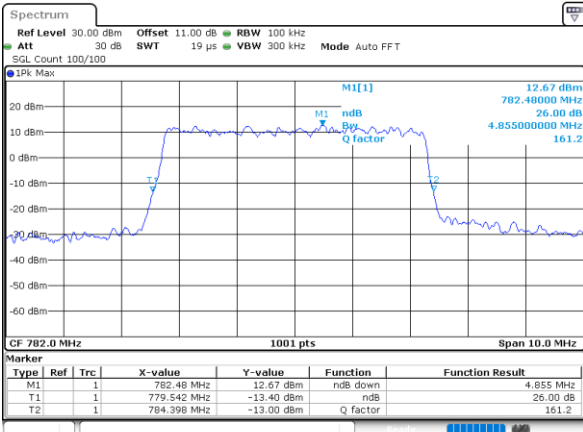
Date: 27_JUN.2021 09:38:02

Middle Channel / 10MHz / 16QAM



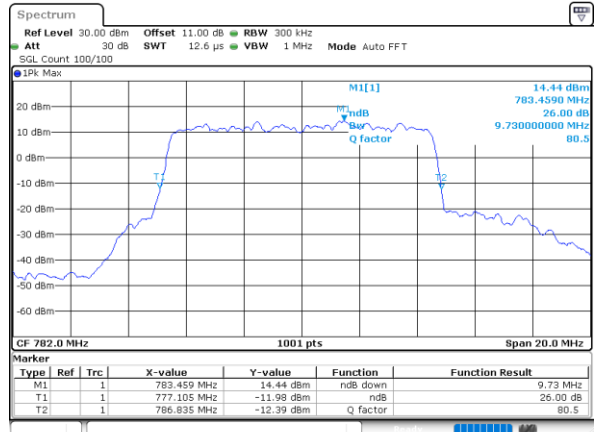
Date: 27_JUN.2021 09:37:44

Middle Channel / 5MHz / 64QAM



Date: 27_JUN.2021 09:32:32

Middle Channel / 10MHz / 64QAM



Date: 27_JUN.2021 09:50:19



Occupied Bandwidth

Mode	LTE Band 13 : 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	-	-	-	-	4.47	4.50	9.01	8.97	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM	64QAM	256 QAM
Middle CH	-	-	-	-	4.50	-	9.05	-	-	-	-	-