

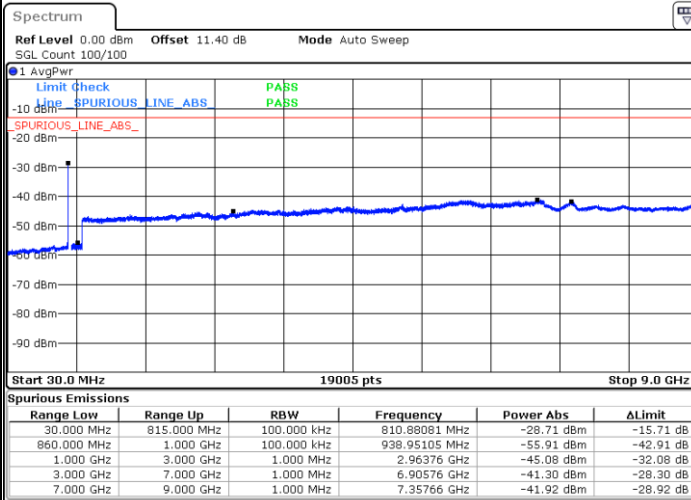


LTE Band 5B / 5MHz+10MHz

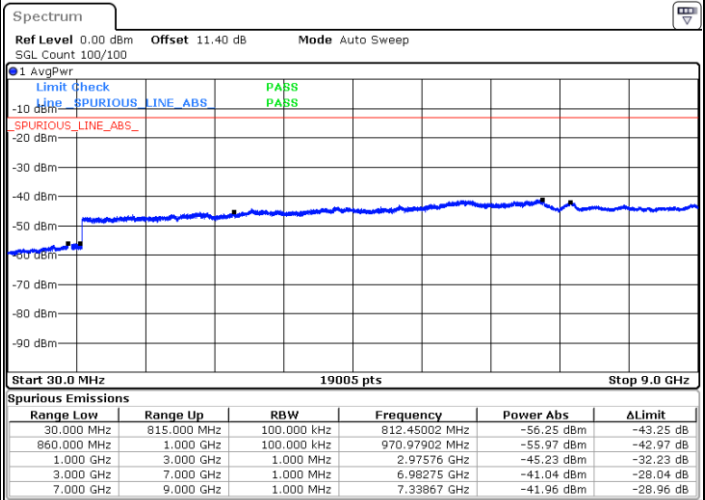
QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB24 and 1RB0



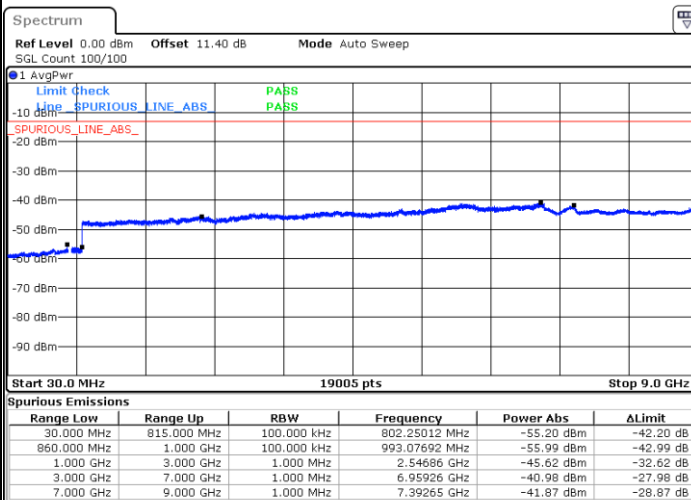
Date: 2.NOV.2021 23:06:31



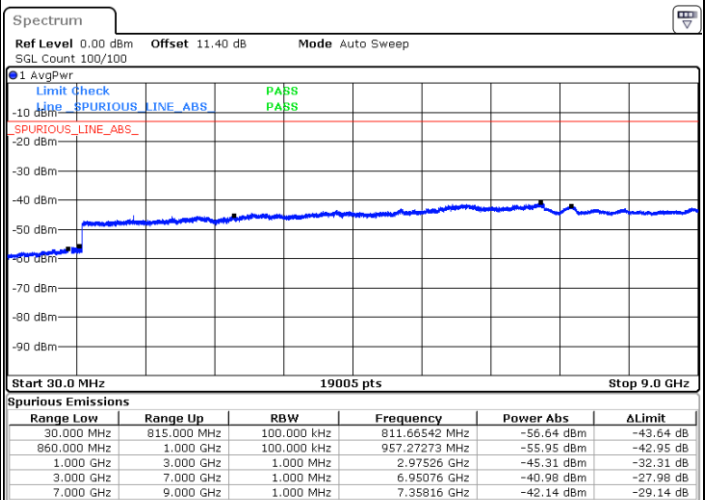
Date: 2.NOV.2021 23:05:27

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB24 and 1RB0



Date: 2.NOV.2021 23:10:38



Date: 2.NOV.2021 23:11:43

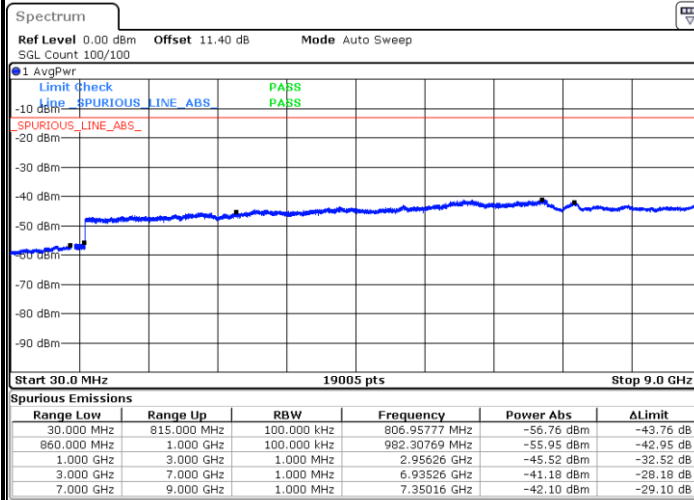


LTE Band 5B / 5MHz+10MHz

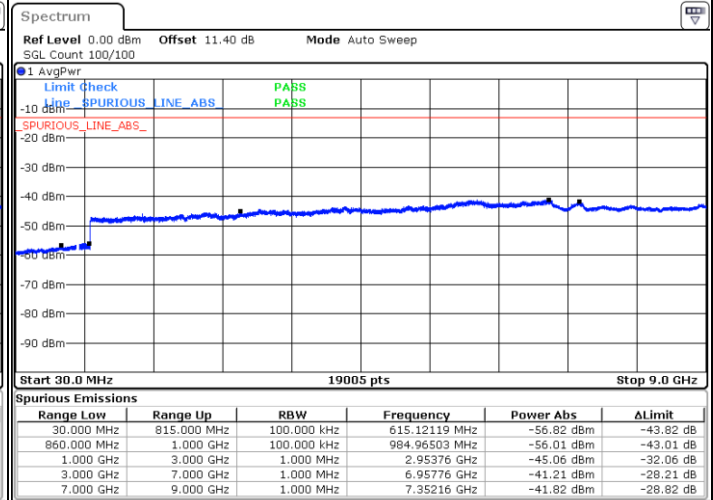
QPSK

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB24 and 1RB0



Date: 2.NOV.2021 22:46:20



Date: 2.NOV.2021 22:45:16

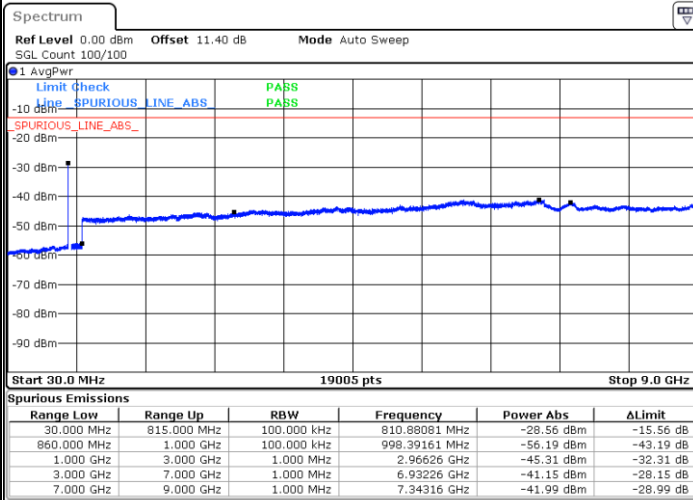


LTE Band 5B / 10MHz+5MHz

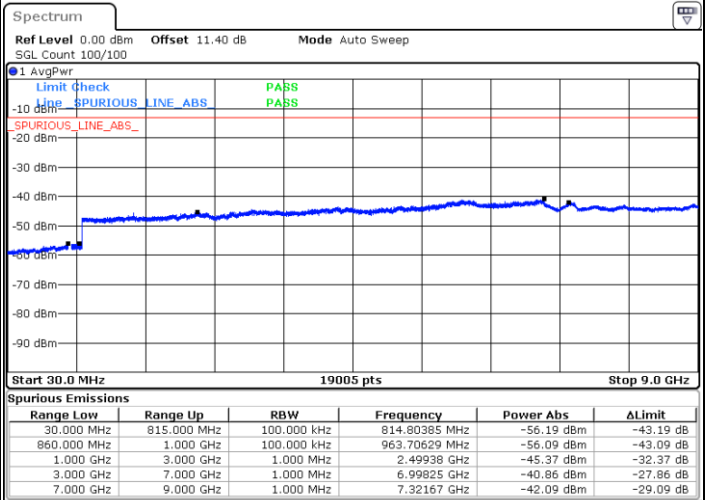
QPSK

Lowest Channel / 1RB0 and 1RB24

Lowest Channel / 1RB49 and 1RB0



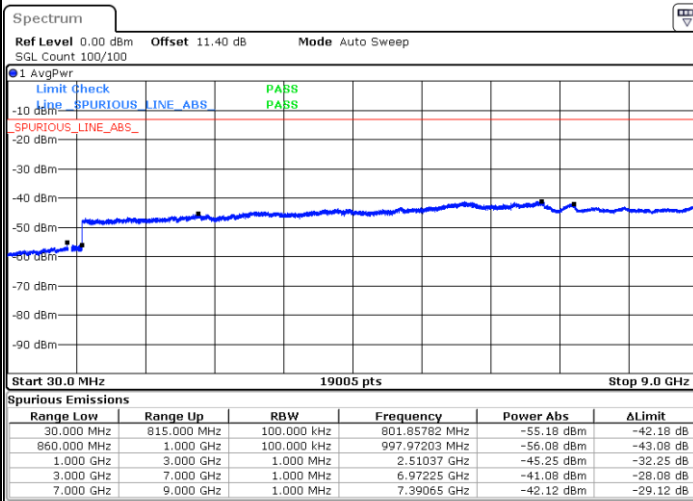
Date: 2.NOV.2021 23:52:44



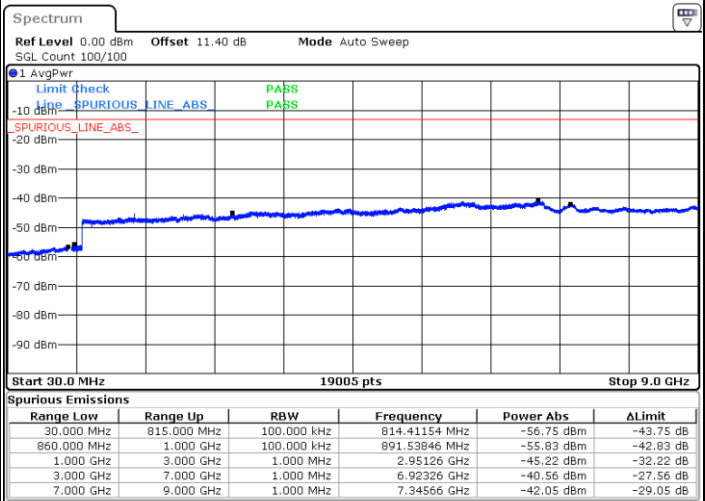
Date: 2.NOV.2021 23:51:40

Middle Channel / 1RB0 and 1RB24

Middle Channel / 1RB49 and 1RB0



Date: 2.NOV.2021 23:56:52



Date: 2.NOV.2021 23:57:56

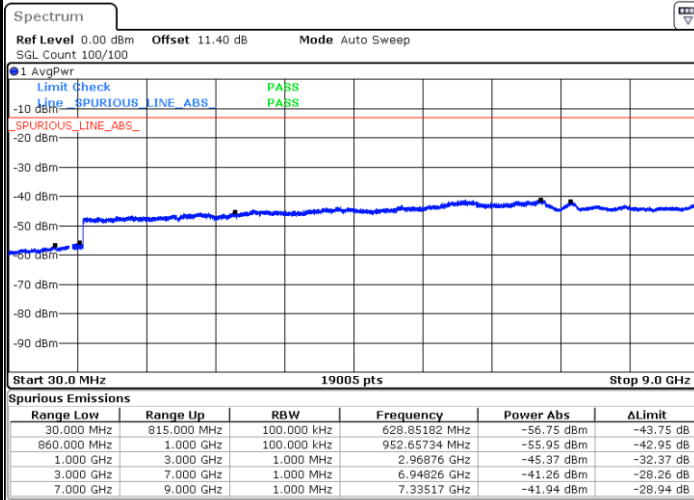


LTE Band 5B / 10MHz+5MHz

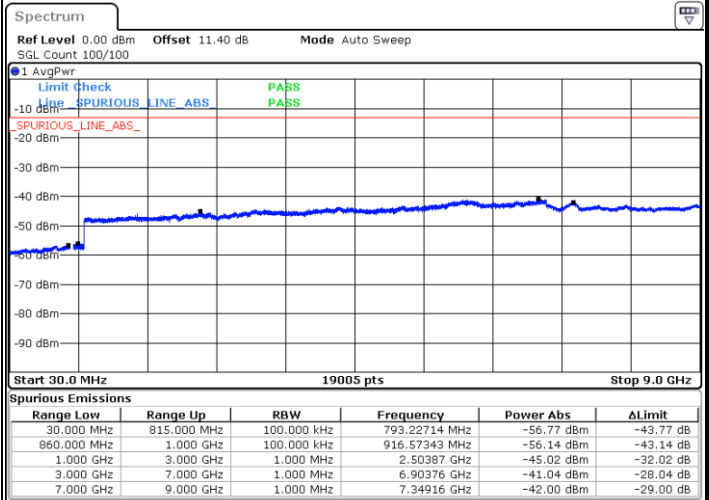
QPSK

Highest Channel / 1RB0 and 1RB24

Highest Channel / 1RB49 and 1RB0



Date: 2.NOV.2021 23:32:33



Date: 2.NOV.2021 23:31:29

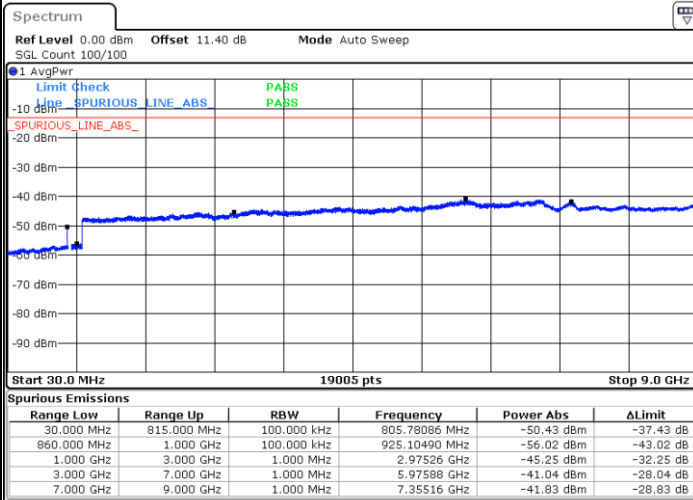


LTE Band 5B / 10MHz+10MHz

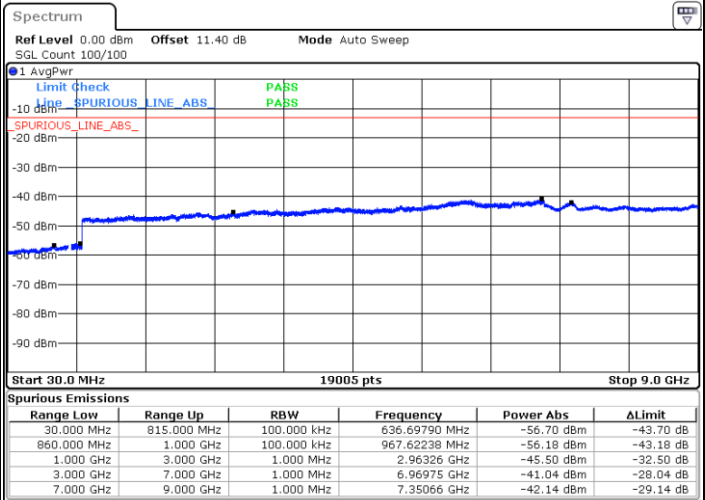
QPSK

Lowest Channel / 1RB0 and 1RB49

Lowest Channel / 1RB49 and 1RB0



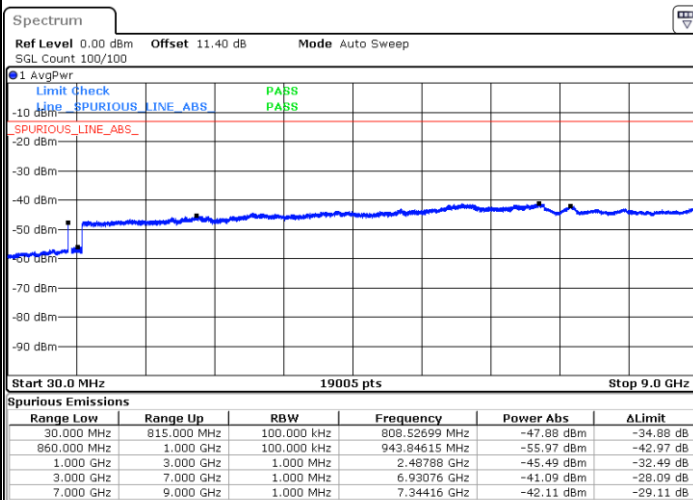
Date: 3.NOV.2021 00:38:15



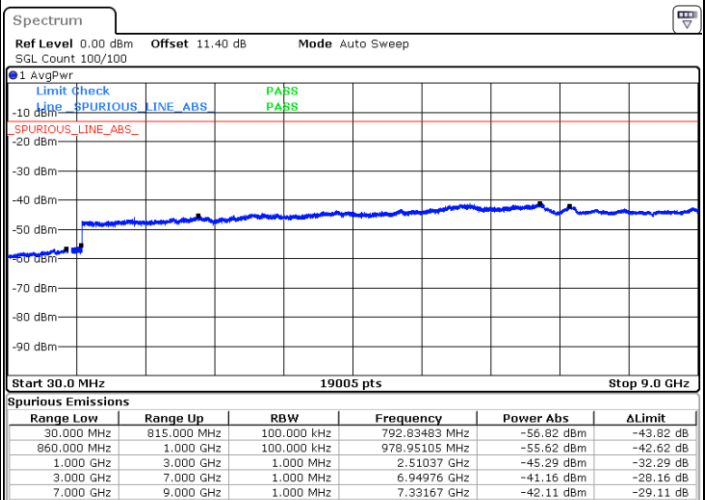
Date: 3.NOV.2021 00:37:11

Middle Channel / 1RB0 and 1RB49

Middle Channel / 1RB49 and 1RB0



Date: 3.NOV.2021 00:42:23



Date: 3.NOV.2021 00:43:27

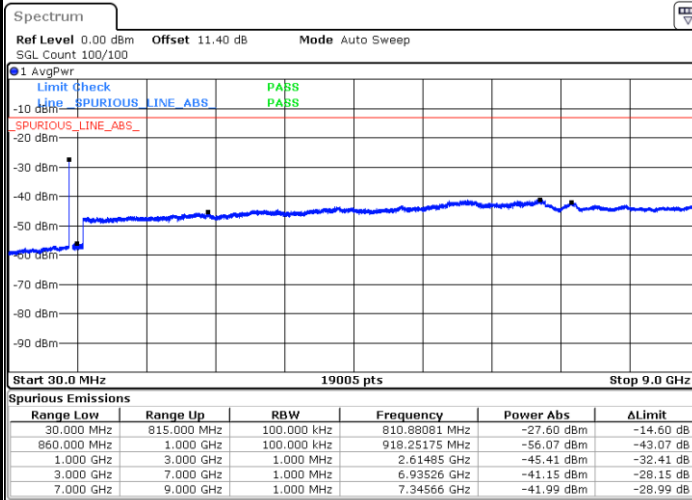


LTE Band 5B / 10MHz+10MHz

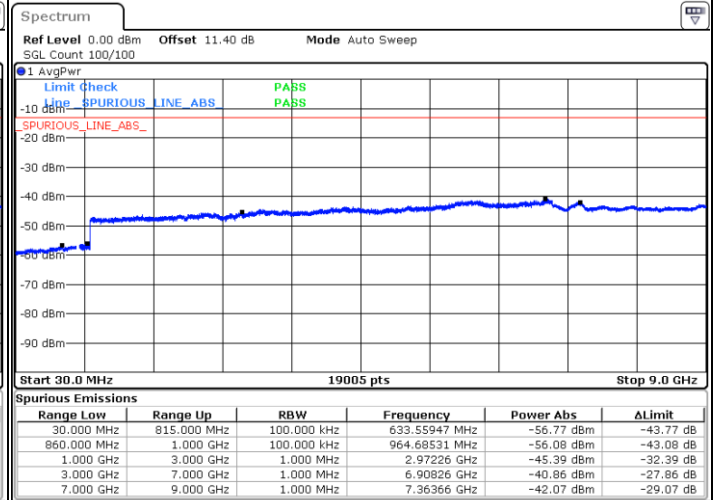
QPSK

Highest Channel / 1RB0 and 1RB49

Highest Channel / 1RB49 and 1RB0



Date: 3.NOV.2021 00:18:05



Date: 3.NOV.2021 00:17:01



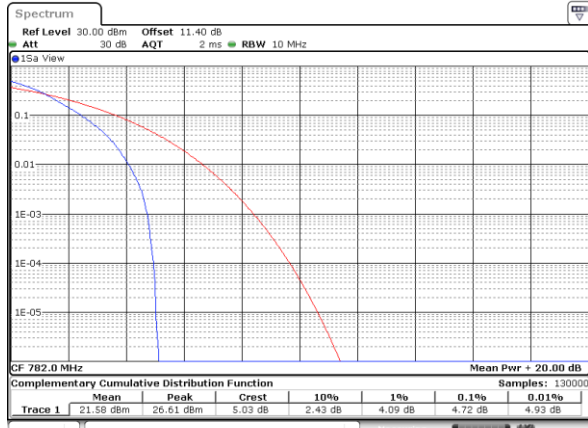
LTE Band 13

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	4.72	5.71	5.62	6.55	PASS

LTE Band 13 / 10MHz / QPSK

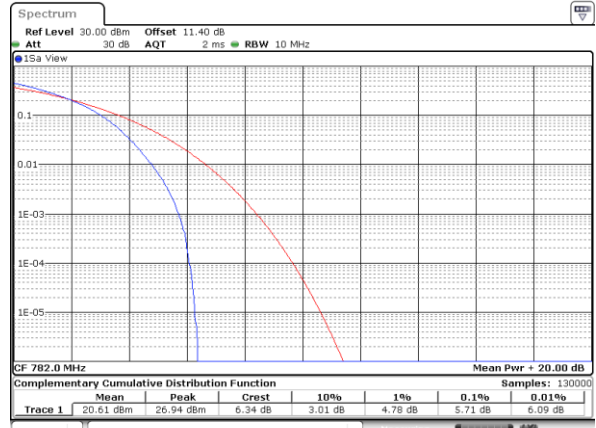
Middle Channel / Full RB



Date: 24.OCT.2021 08:37:14

LTE Band 13 / 10MHz / 16QAM

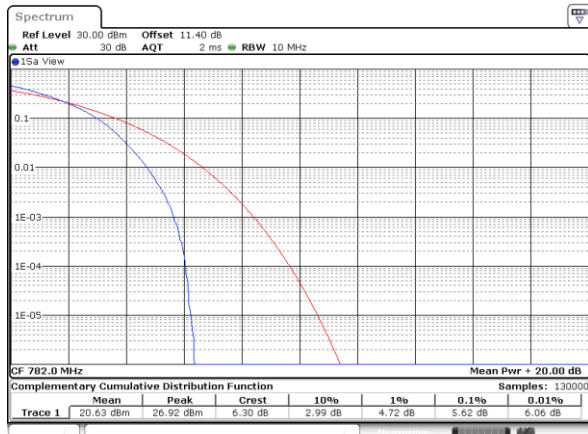
Middle Channel / Full RB



Date: 24.OCT.2021 08:36:51

LTE Band 13 / 10MHz / 64QAM

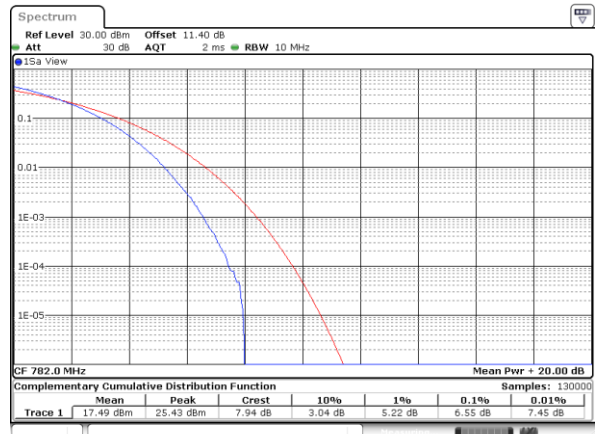
Middle Channel / Full RB



Date: 24.OCT.2021 08:36:29

LTE Band 13 / 10MHz / 256QAM

Middle Channel / Full RB



Date: 24.OCT.2021 09:02:17

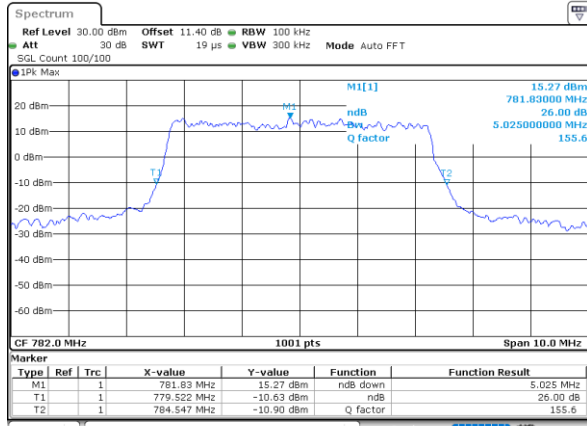
**26dB Bandwidth**

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	-	-	-	-	5.03	5.05	9.83	9.87	-	-	-	-
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	-	-	-	-	5.01	4.89	9.79	9.75	-	-	-	-



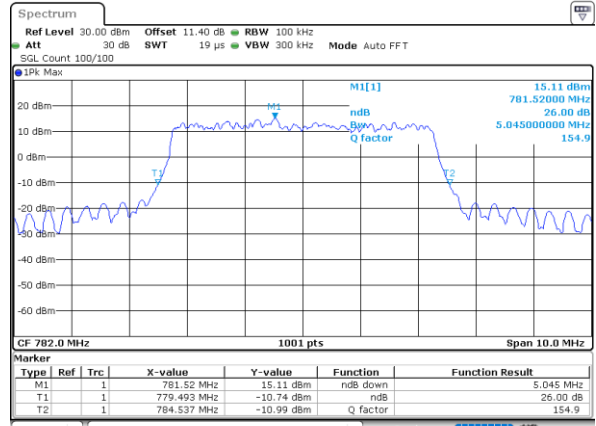
LTE Band 13

Middle Channel / 5MHz / QPSK



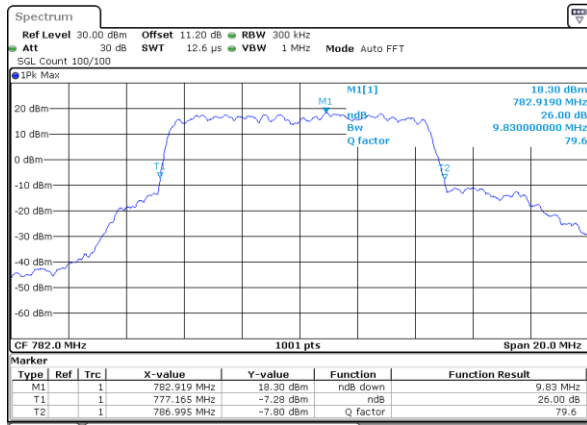
Date: 24.OCT.2021 07:59:02

Middle Channel / 5MHz / 16QAM



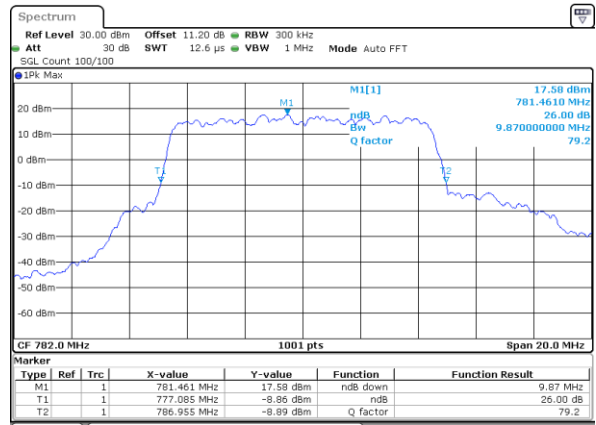
Date: 24.OCT.2021 07:59:23

Middle Channel / 10MHz / QPSK



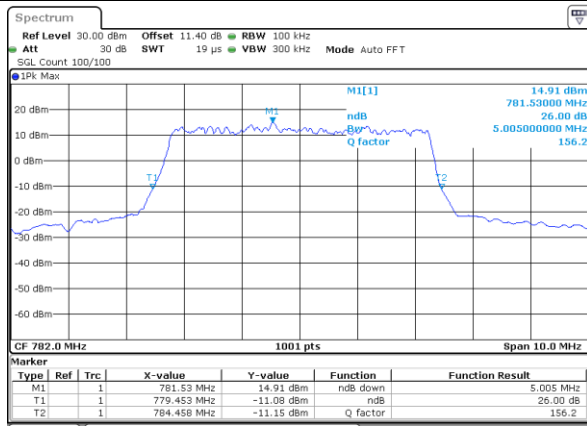
Date: 24 MAR 2021 00:06:31

Middle Channel / 10MHz / 16QAM



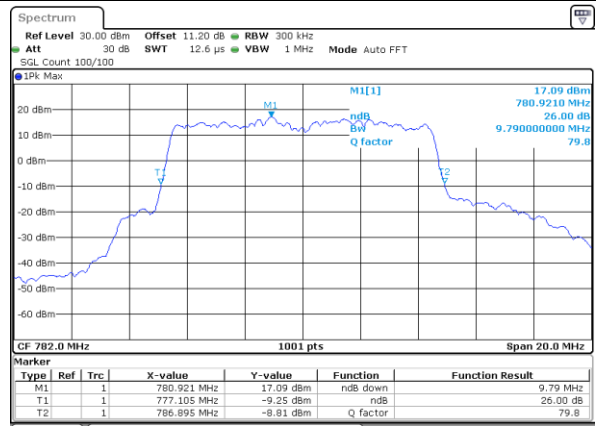
Date: 24 MAR 2021 00:06:08

Middle Channel / 5MHz / 64QAM



Date: 24.OCT.2021 08:12:30

Middle Channel / 10MHz / 64QAM

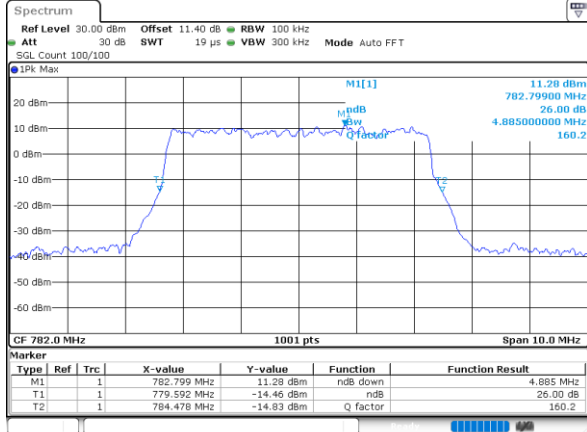


Date: 24 MAR 2021 00:19:18



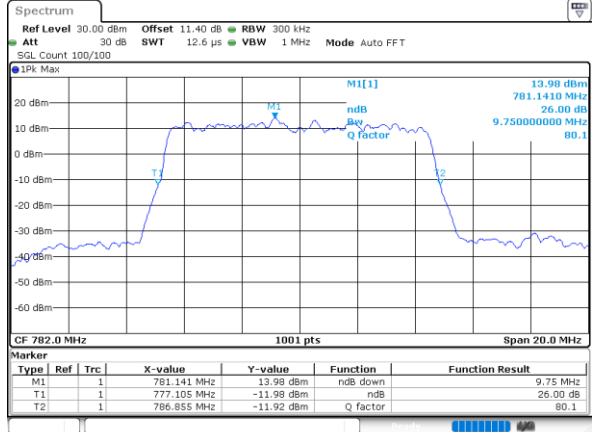
LTE Band 13

Middle Channel / 5MHz / 256QAM



Date: 24.OCT.2021 08:49:27

Middle Channel / 10MHz / 256QAM



Date: 24.OCT.2021 08:56:25

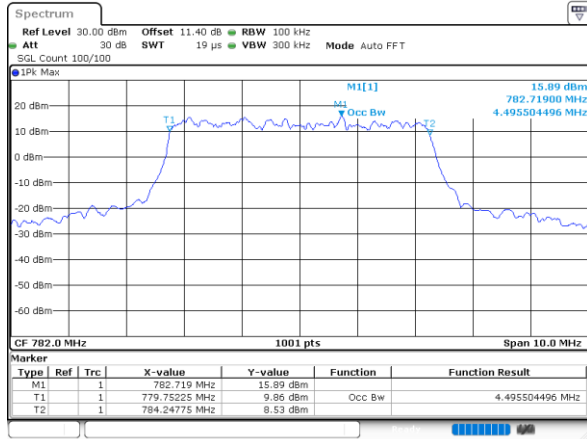
**Occupied Bandwidth**

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	-	-	-	-	4.50	4.49	9.03	9.03	-	-	-	-
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	4.49	9.03	9.01	-	-	-	-



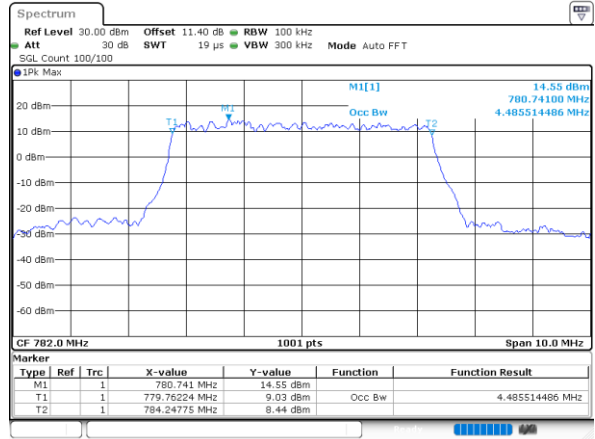
LTE Band 13

Middle Channel / 5MHz / QPSK



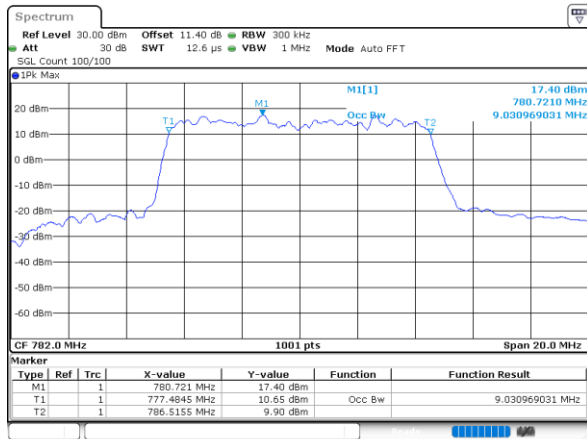
Date: 24.OCT.2021 08:00:05

Middle Channel / 5MHz / 16QAM



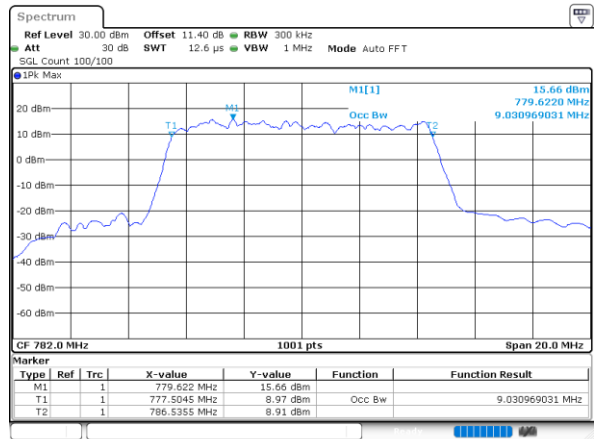
Date: 24.OCT.2021 07:59:44

Middle Channel / 10MHz / QPSK



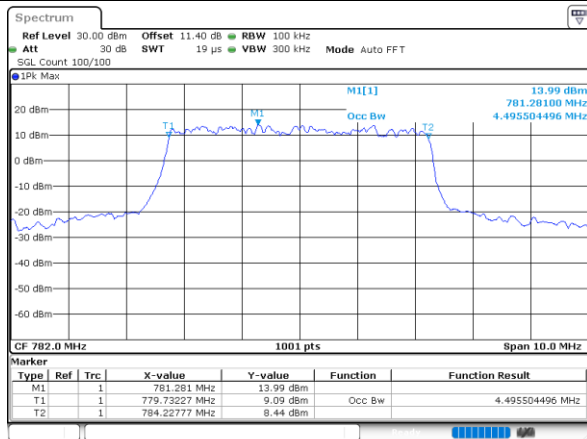
Date: 24.OCT.2021 08:16:53

Middle Channel / 10MHz / 16QAM



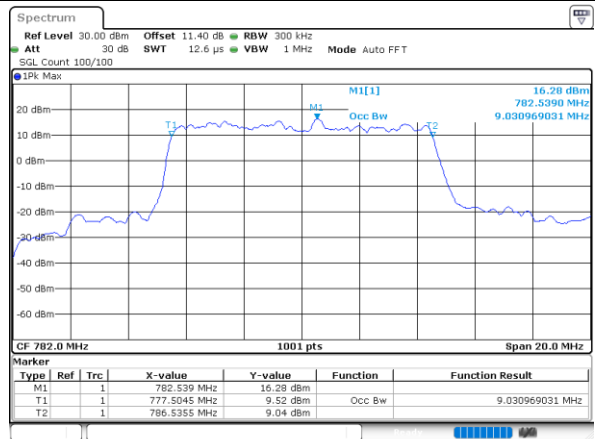
Date: 24.OCT.2021 08:17:14

Middle Channel / 5MHz / 64QAM



Date: 24.OCT.2021 08:12:51

Middle Channel / 10MHz / 64QAM

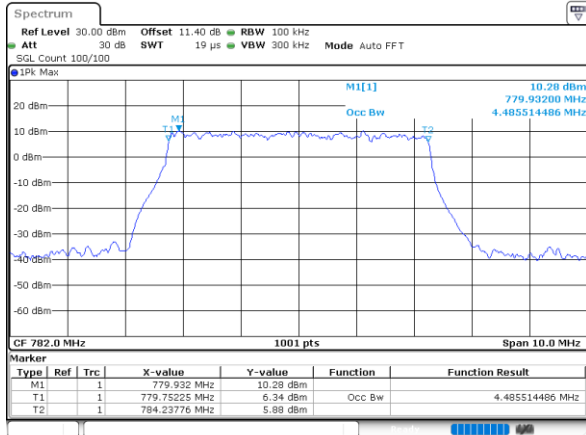


Date: 24.OCT.2021 08:10:16



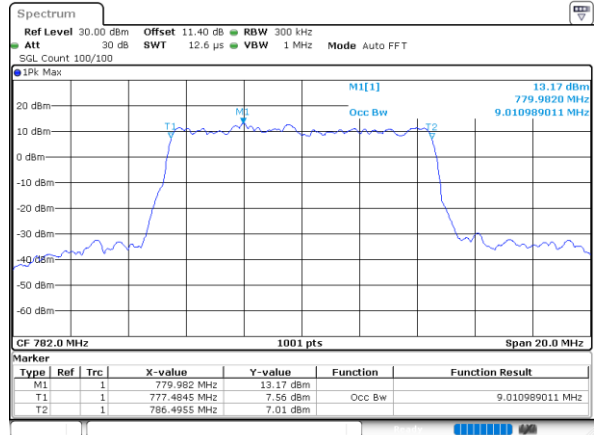
LTE Band 13

Middle Channel / 5MHz / 256QAM



Date: 24.OCT.2021 08:49:40

Middle Channel / 10MHz / 256QAM



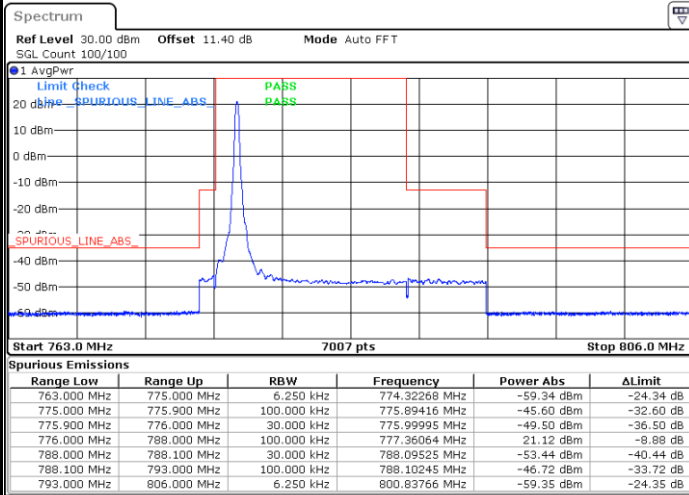
Date: 24.OCT.2021 08:56:04



Conducted Band Edge

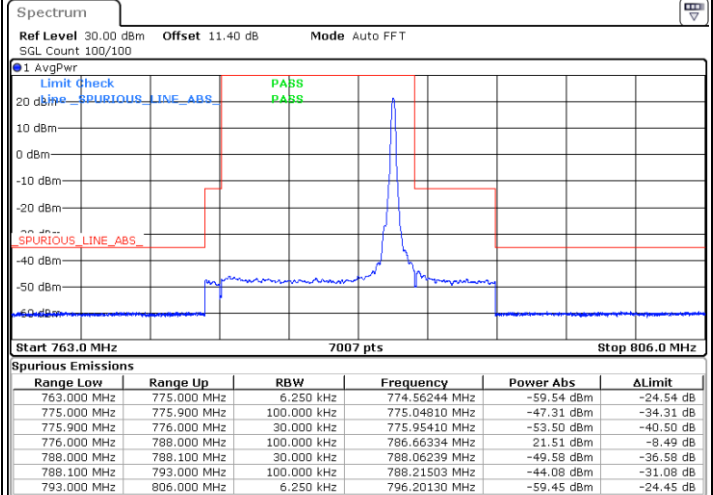
LTE Band 13 / 5MHz / QPSK

Lowest Band Edge / 1 RB



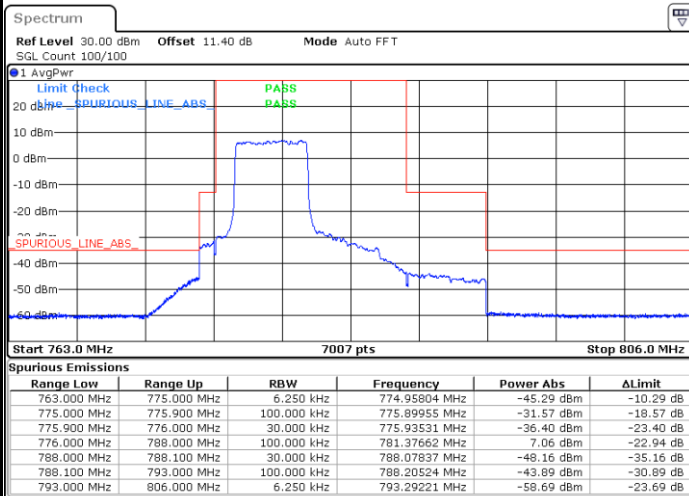
Date: 24.OCT.2021 07:56:42

Highest Band Edge / 1 RB



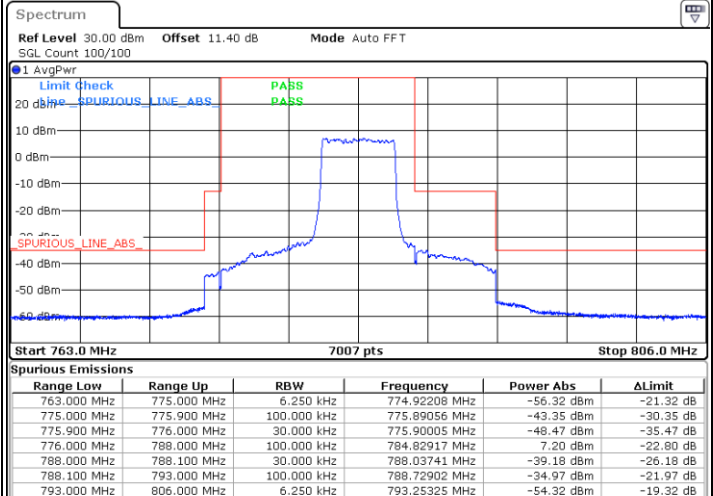
Date: 24.OCT.2021 08:07:27

Lowest Band Edge / Full RB



Date: 24.OCT.2021 07:51:10

Highest Band Edge / Full RB

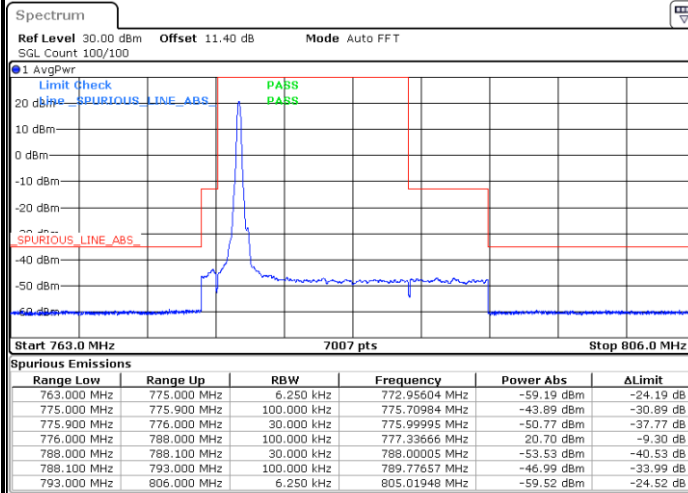


Date: 24.OCT.2021 08:01:55



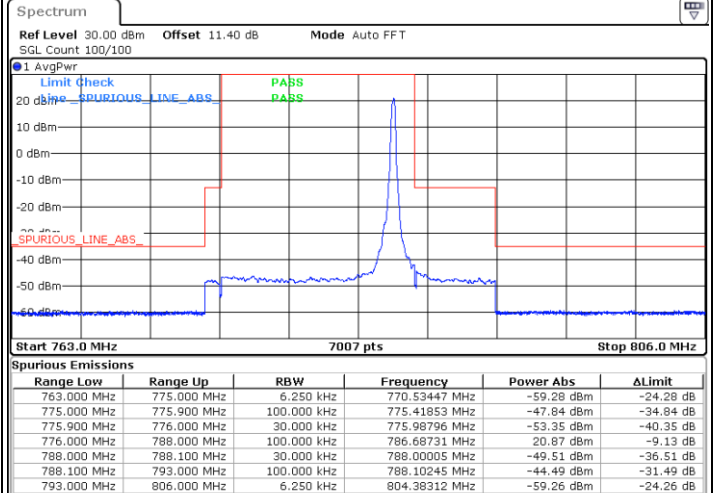
LTE Band 13 / 5MHz / 16QAM

Lowest Band Edge / 1 RB



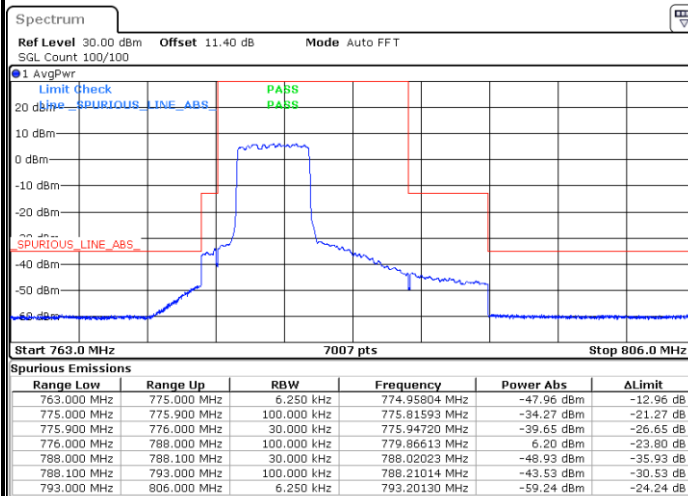
Date: 24.OCT.2021 07:54:51

Highest Band Edge / 1 RB



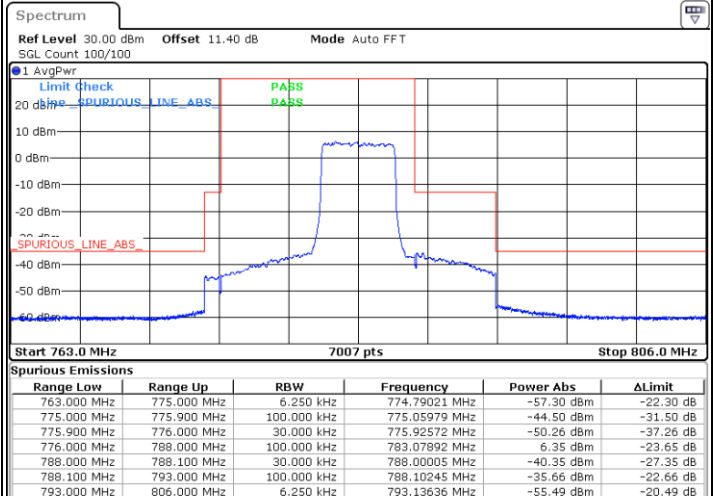
Date: 24.OCT.2021 08:05:36

Lowest Band Edge / Full RB



Date: 24.OCT.2021 07:53:00

Highest Band Edge / Full RB

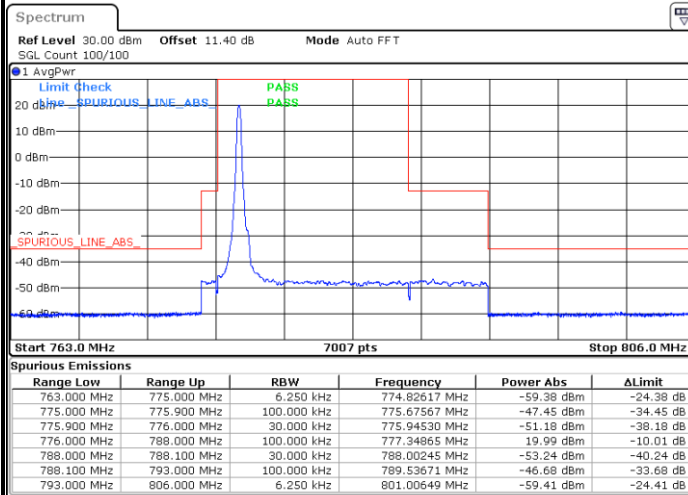


Date: 24.OCT.2021 08:03:46

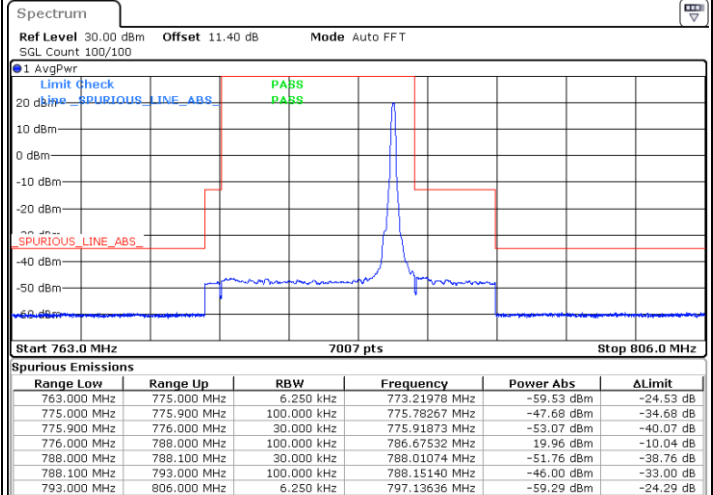


LTE Band 13 / 5MHz / 64QAM

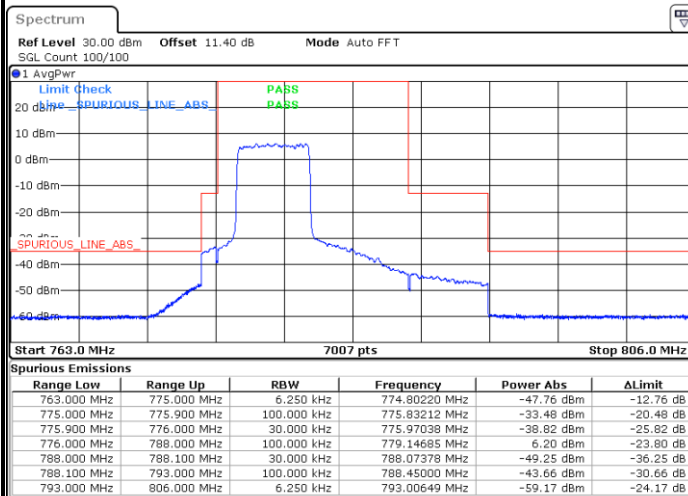
Lowest Band Edge / 1 RB



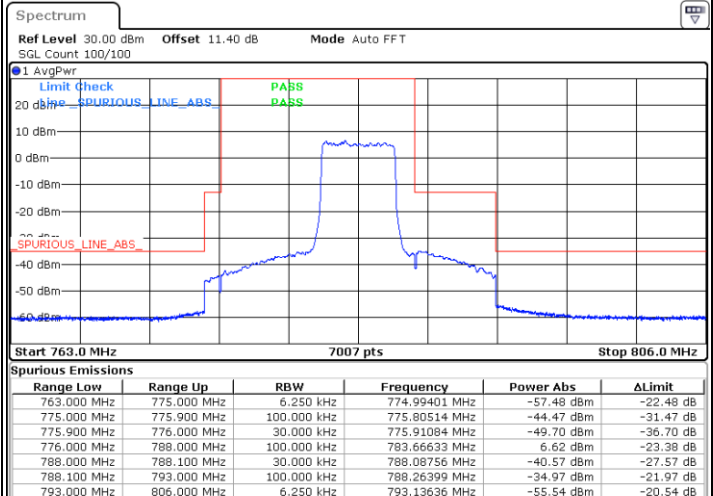
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



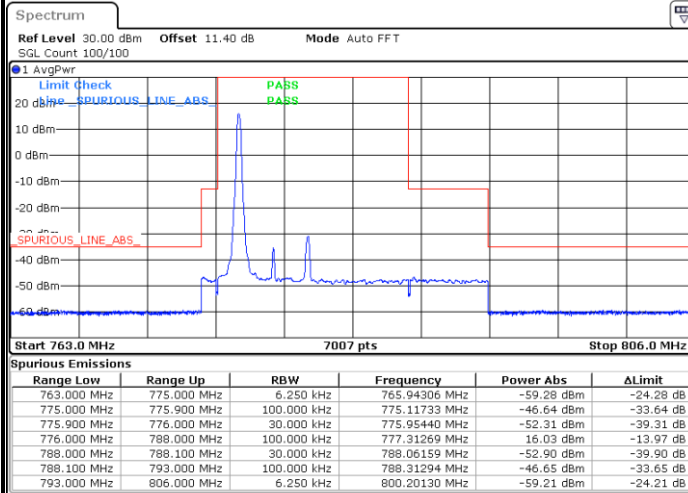
Highest Band Edge / Full RB





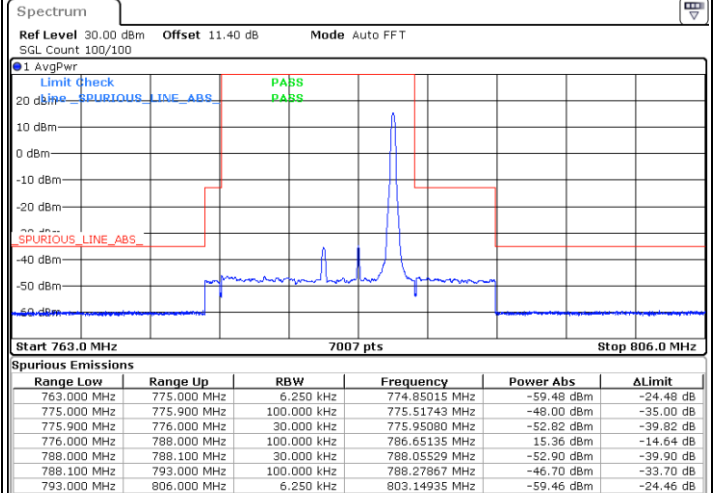
LTE Band 13 / 5MHz / 256QAM

Lowest Band Edge / 1 RB



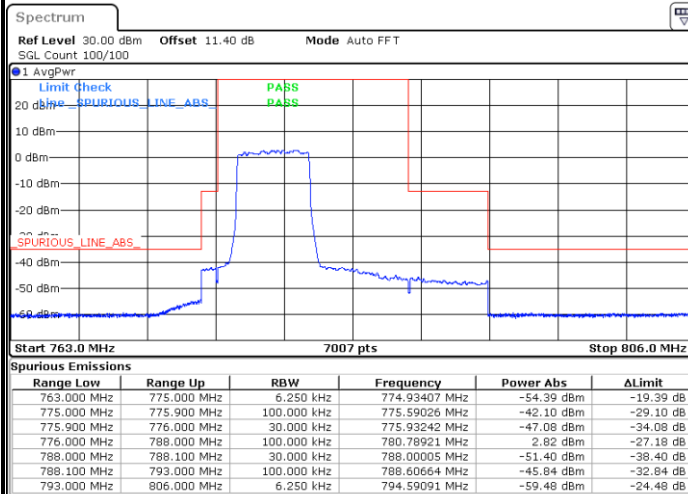
Date: 24.OCT.2021 08:48:46

Highest Band Edge / 1 RB



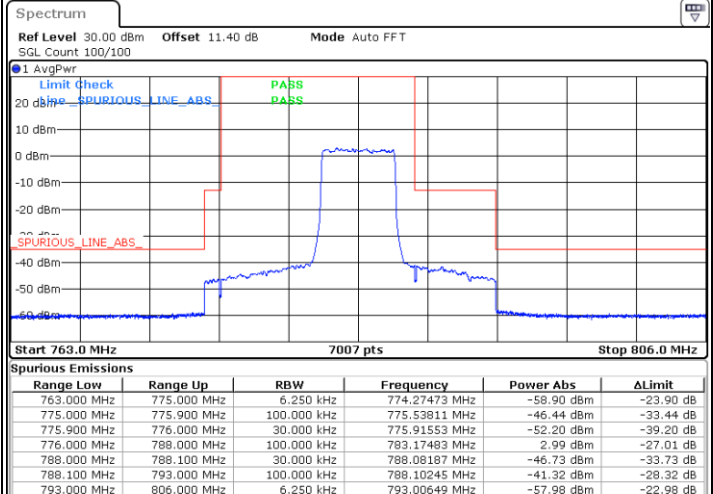
Date: 24.OCT.2021 08:55:27

Lowest Band Edge / Full RB



Date: 24.OCT.2021 08:41:49

Highest Band Edge / Full RB

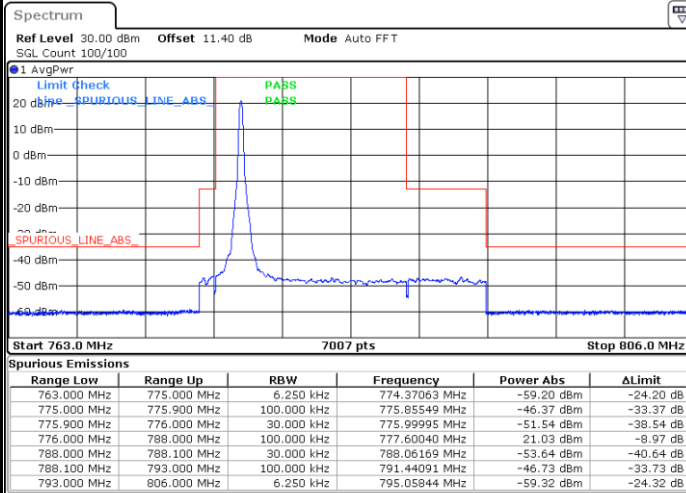


Date: 24.OCT.2021 08:53:34

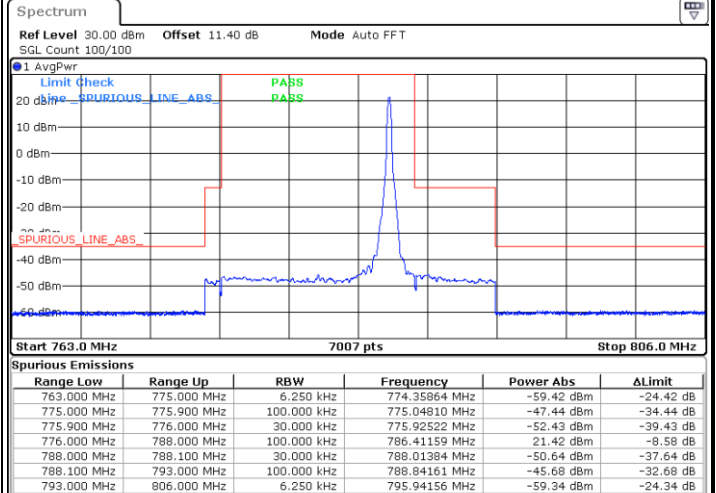


LTE Band 13 / 10MHz / QPSK

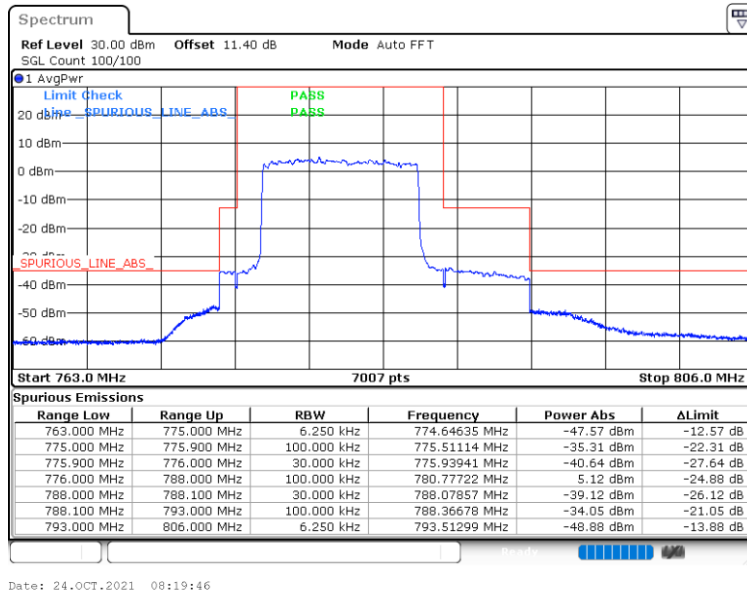
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



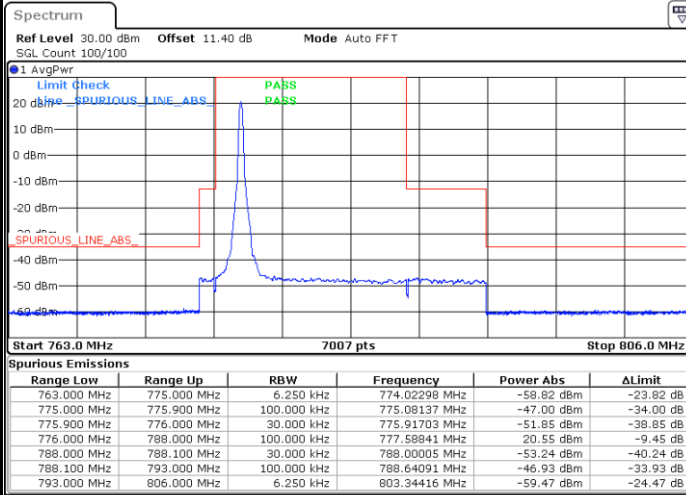
Band Edge / Full RB



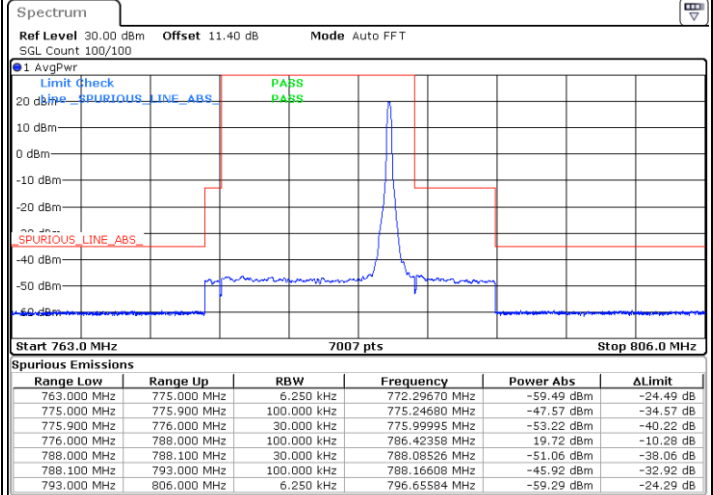


LTE Band 13 / 10MHz / 16QAM

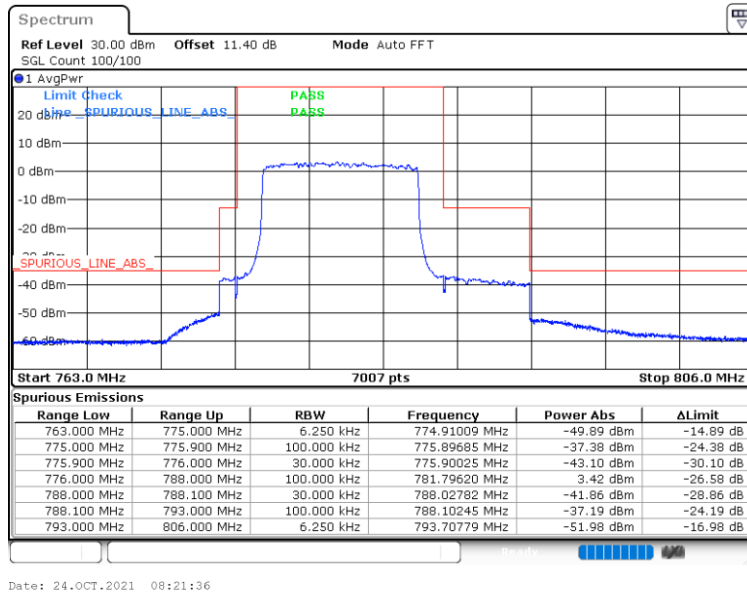
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



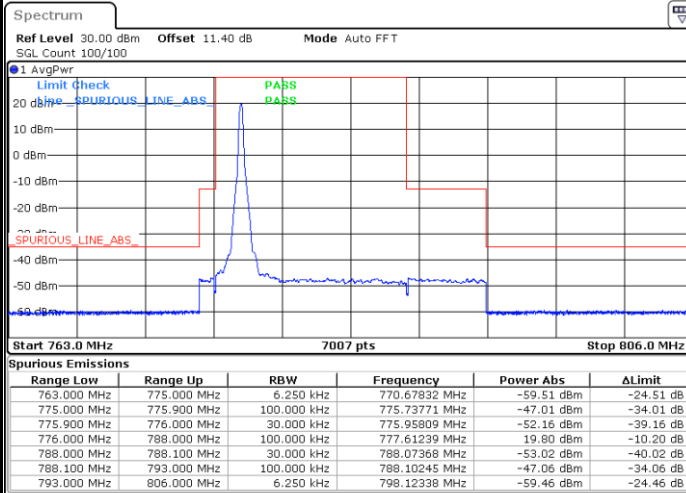
Band Edge / Full RB





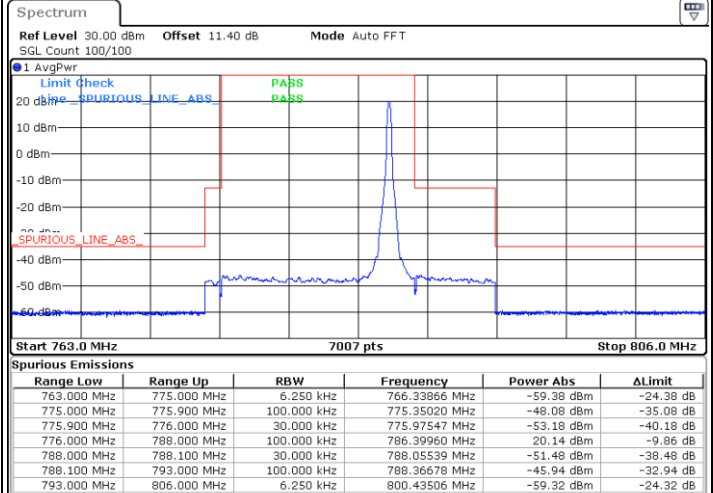
LTE Band 13 / 10MHz / 64QAM

Lowest Band Edge / 1 RB



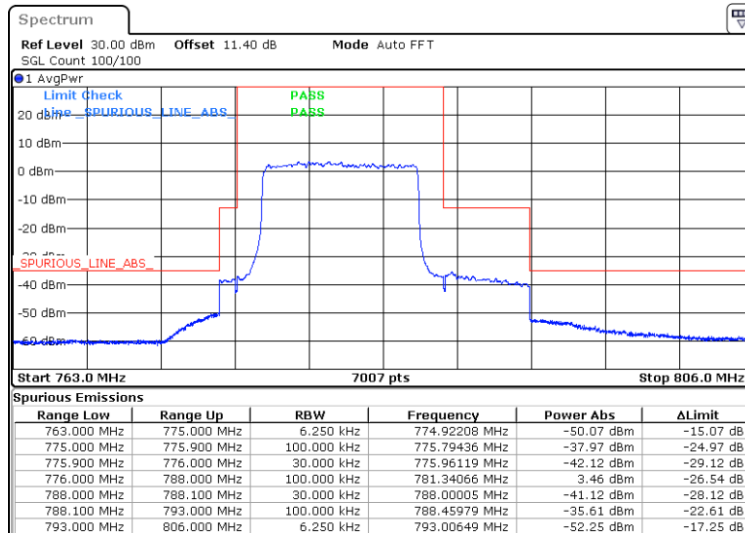
Date: 24.OCT.2021 08:34:17

Highest Band Edge / 1 RB



Date: 24.OCT.2021 08:36:07

Band Edge / Full RB

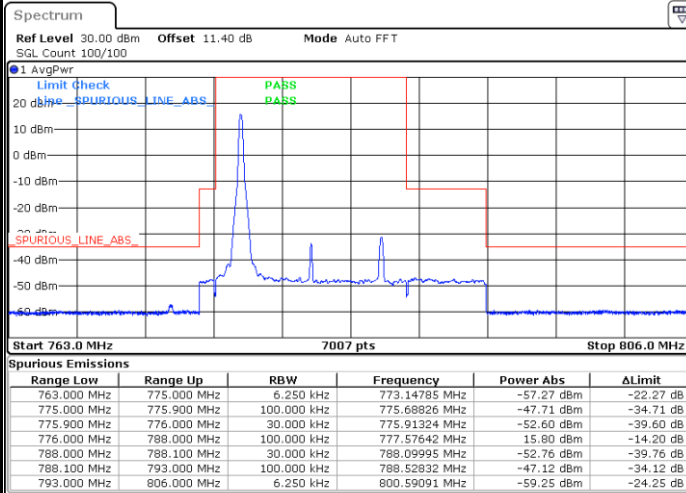


Date: 24.OCT.2021 08:32:27



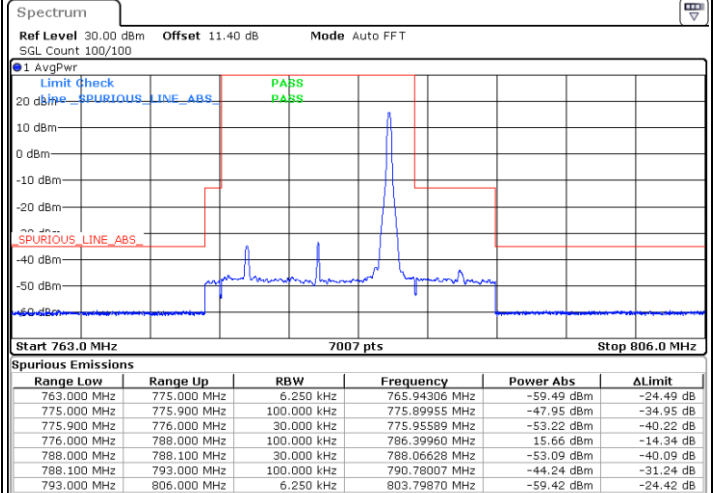
LTE Band 13 / 10MHz / 256QAM

Lowest Band Edge / 1 RB



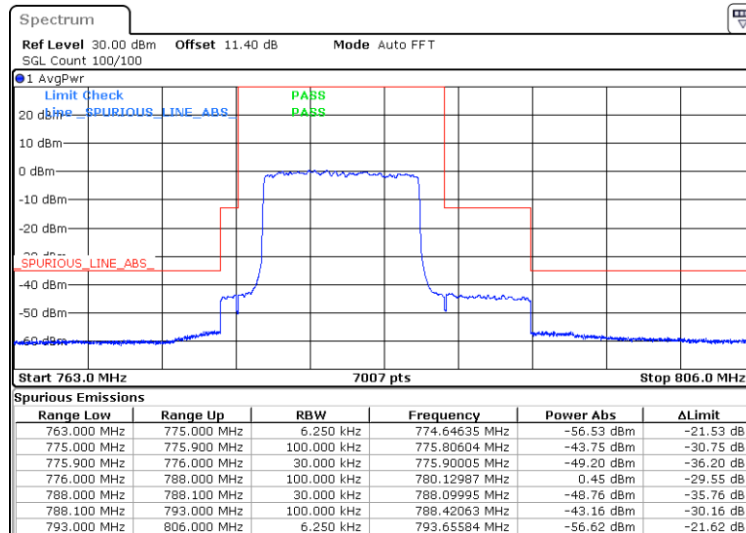
Date: 24.OCT.2021 09:00:05

Highest Band Edge / 1 RB



Date: 24.OCT.2021 09:01:55

Band Edge / Full RB



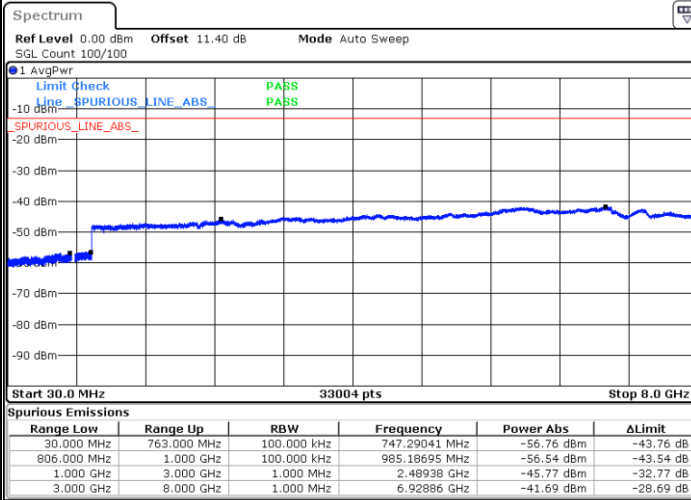
Date: 24.OCT.2021 08:58:15



Conducted Spurious Emission

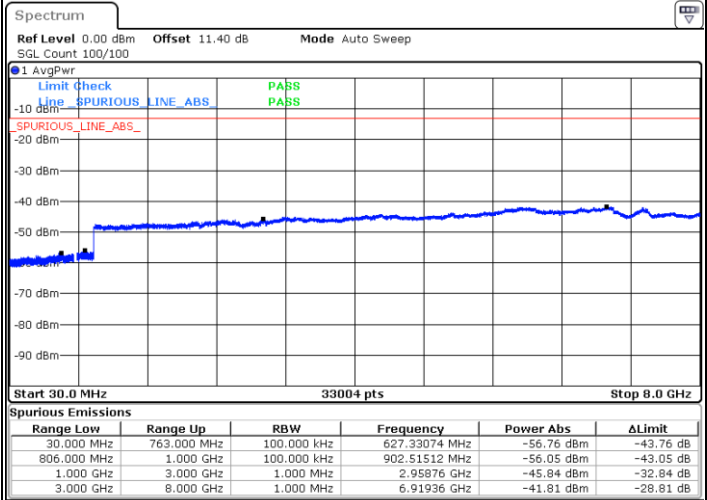
LTE Band 13 / 5MHz

Lowest Channel / QPSK



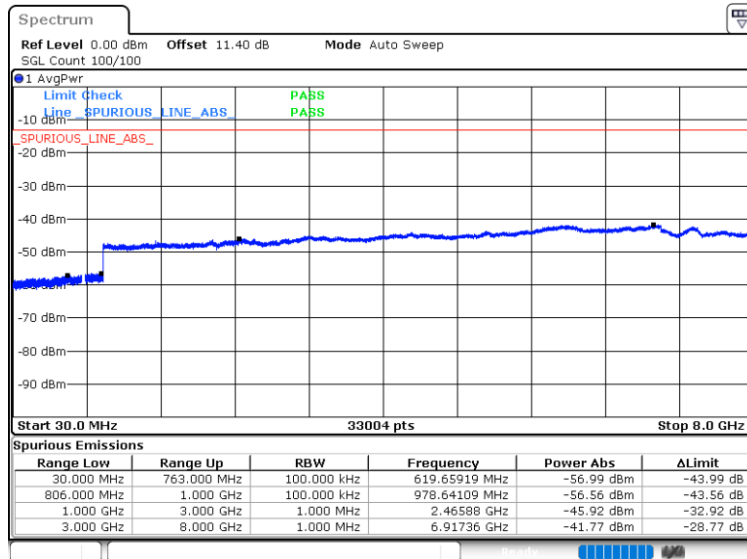
Date: 24.OCT.2021 07:57:42

Middle Channel / QPSK



Date: 24.OCT.2021 07:58:41

Highest Channel / QPSK

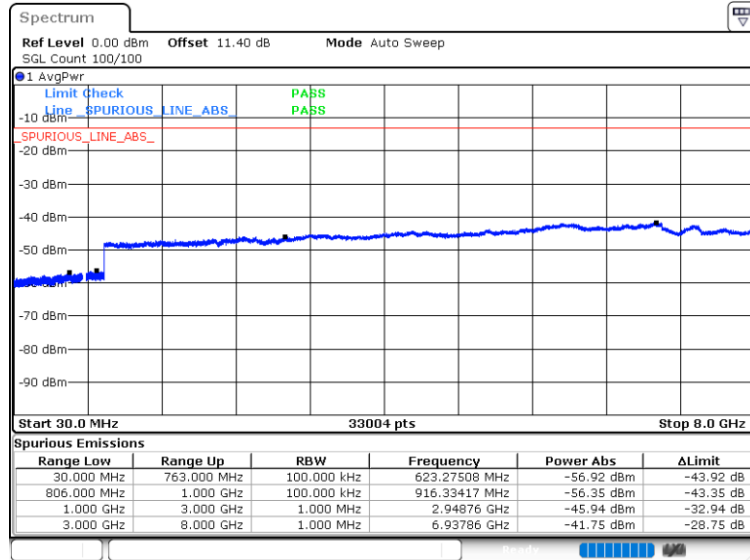


Date: 24.OCT.2021 08:08:27



LTE Band 13 / 10MHz

Middle Channel / QPSK



Date: 24.OCT.2021 08:29:55

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	0.0064	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0024	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0104	
0	Normal Voltage	0.0221	
-10	Normal Voltage	0.0159	
-20	Normal Voltage	0.0031	
-30	Normal Voltage	0.0147	
20	Maximum Voltage	0.0157	
20	Normal Voltage	0.0224	
20	Battery End Point	0.0033	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 66

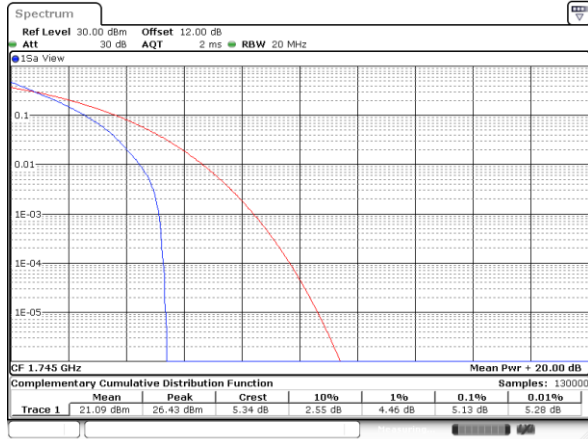
Peak-to-Average Ratio

Mode	LTE Band 66 / 20MHz				
Mod.	QPSK	16QAM	64QAM	256QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	5.13	6.06	6.55	5.94	PASS



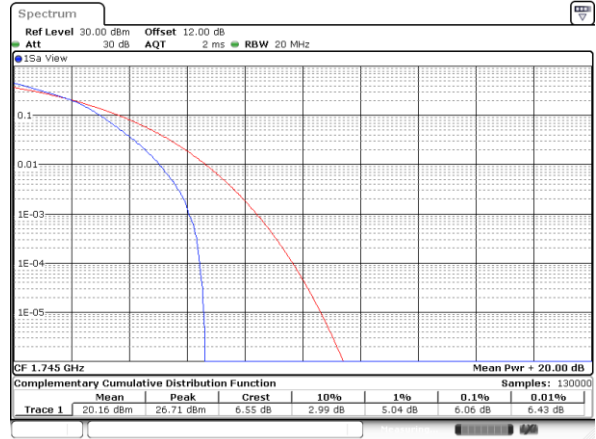
LTE Band 66 / 20MHz / QPSK

Middle Channel / Full RB



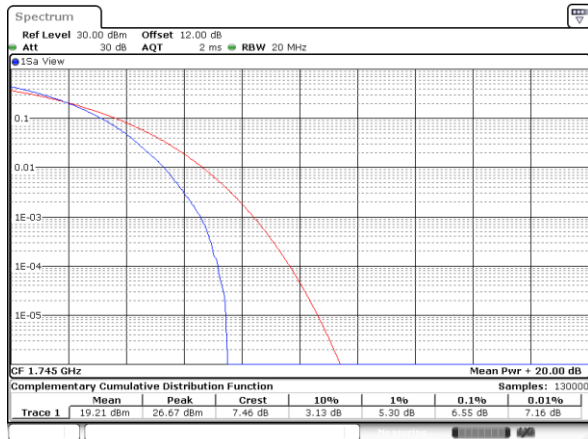
LTE Band 66 / 20MHz / 16QAM

Middle Channel / Full RB



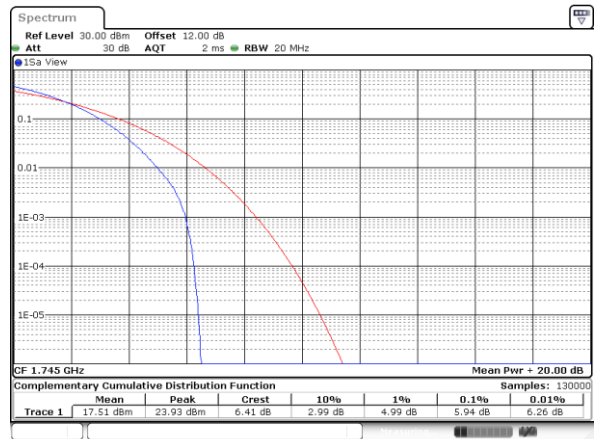
LTE Band 66 / 20MHz / 64QAM

Middle Channel / Full RB



LTE Band 66 / 20MHz / 256QAM

Middle Channel / Full RB



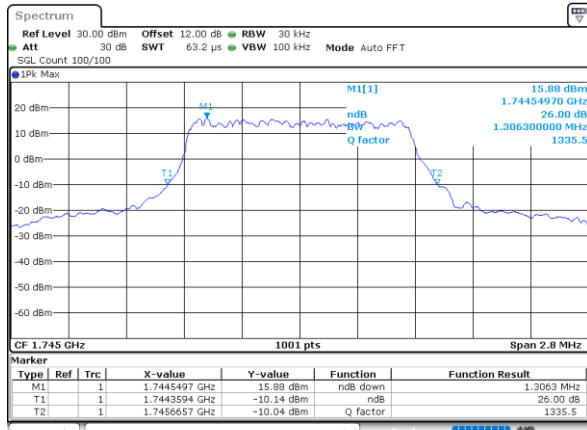
**26dB Bandwidth**

Mode	LTE Band 66 : 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	1.31	1.31	2.97	3.03	4.98	4.98	9.87	9.85	14.60	14.66	19.06	19.02
Mode	LTE Band 66 : 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	1.31	1.34	3.00	3.06	5.14	4.94	10.13	10.03	14.42	14.87	18.98	19.10



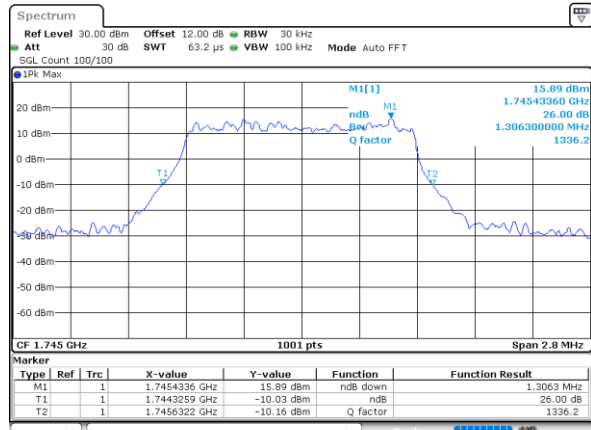
LTE Band 66

Middle Channel / 1.4MHz / QPSK



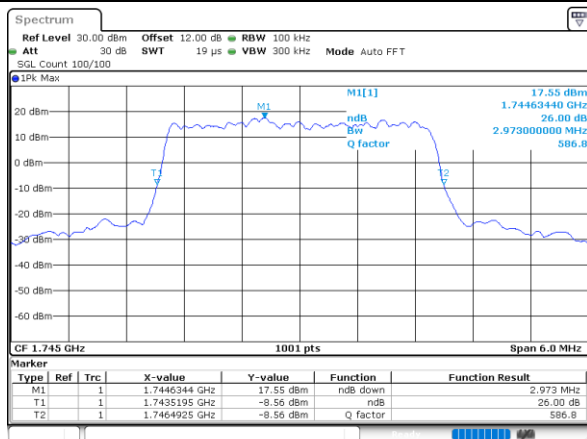
Date: 24.OCT.2021 05:47:10

Middle Channel / 1.4MHz / 16QAM



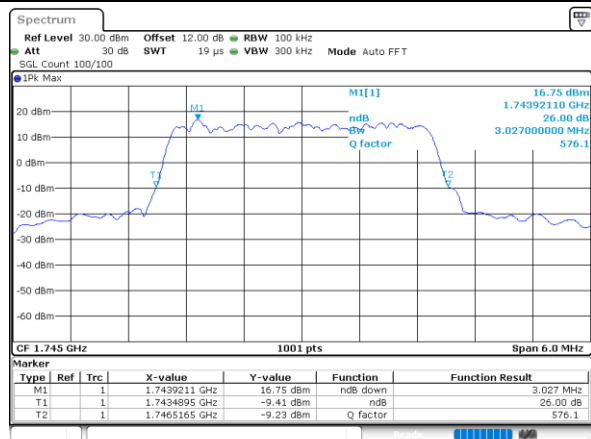
Date: 24.OCT.2021 05:47:19

Middle Channel / 3MHz / QPSK



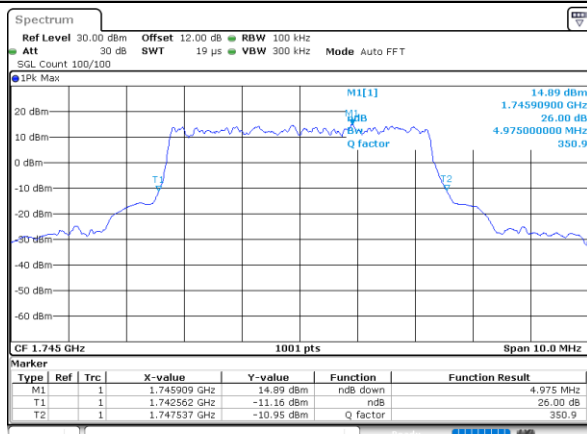
Date: 24.OCT.2021 06:02:56

Middle Channel / 3MHz / 16QAM



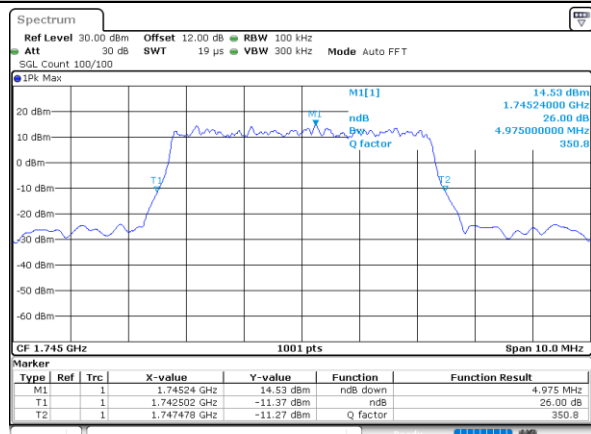
Date: 24.OCT.2021 06:03:17

Middle Channel / 5MHz / QPSK



Date: 24.OCT.2021 06:18:17

Middle Channel / 5MHz / 16QAM

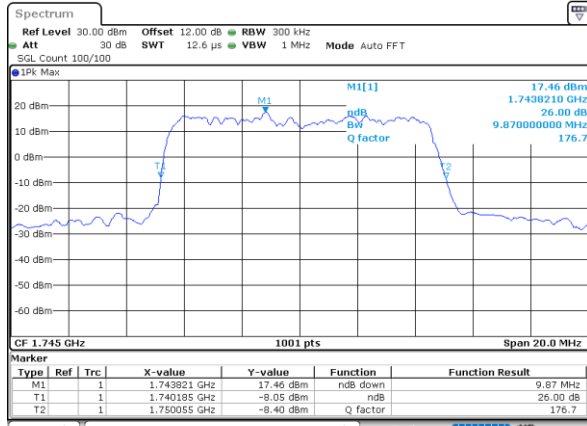


Date: 24.OCT.2021 06:18:38



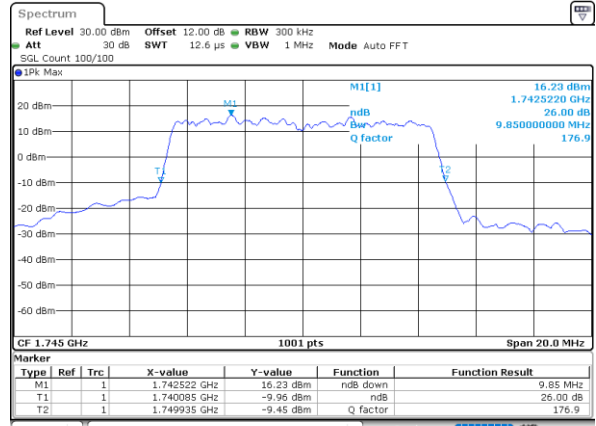
LTE Band 66

Middle Channel / 10MHz / QPSK



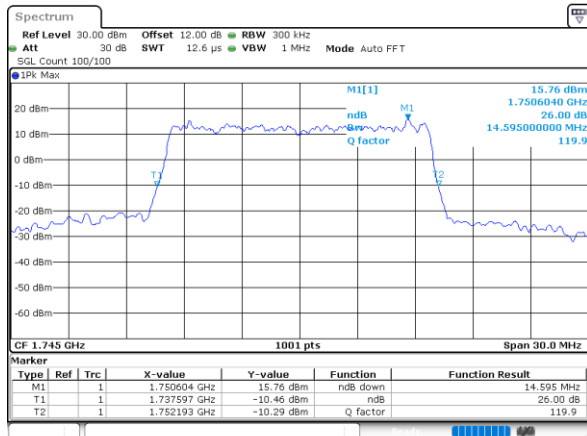
Date: 24.OCT.2021 06:27:49

Middle Channel / 10MHz / 16QAM



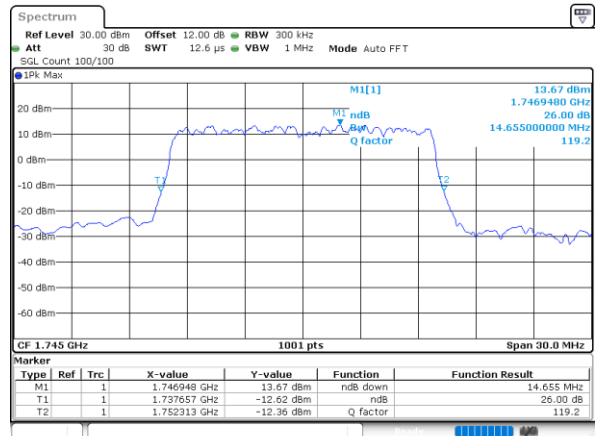
Date: 24.OCT.2021 06:28:10

Middle Channel / 15MHz / QPSK



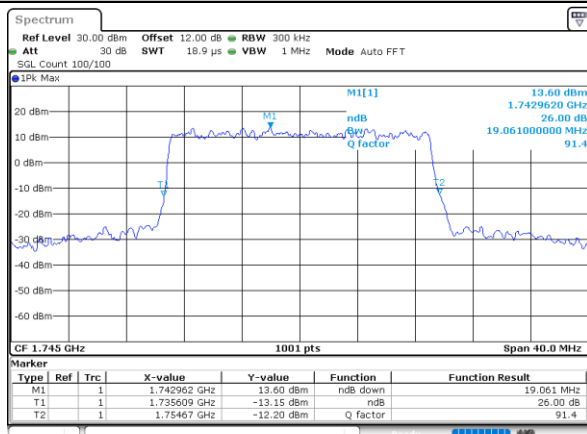
Date: 24.OCT.2021 06:43:09

Middle Channel / 15MHz / 16QAM



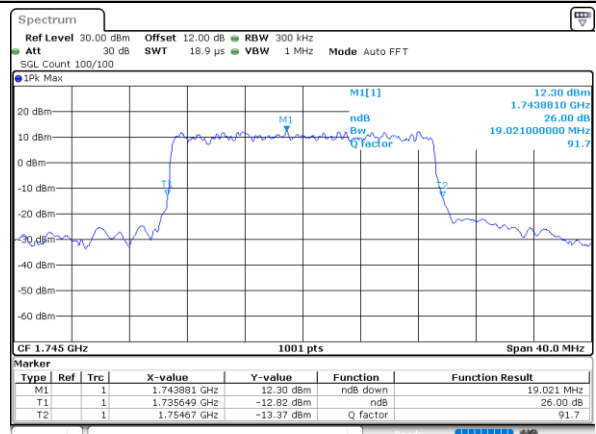
Date: 24.OCT.2021 06:43:30

Middle Channel / 20MHz / QPSK



Date: 24.OCT.2021 06:52:41

Middle Channel / 20MHz / 16QAM

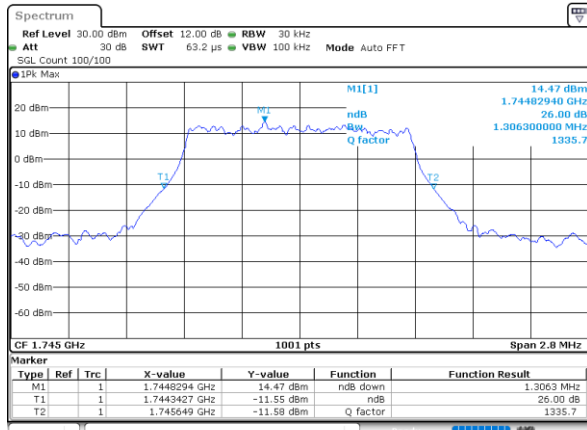


Date: 24.OCT.2021 06:53:03



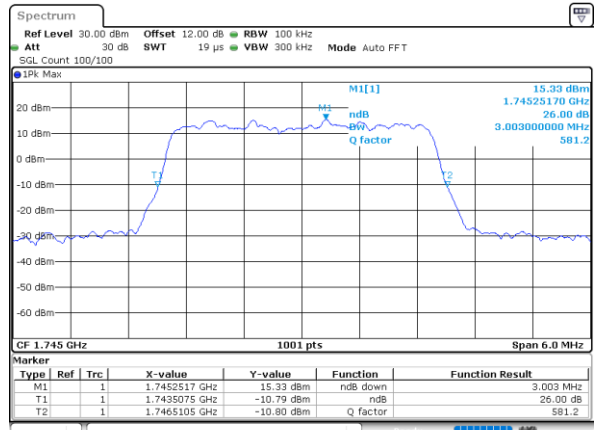
LTE Band 66

Middle Channel / 1.4MHz / 64QAM



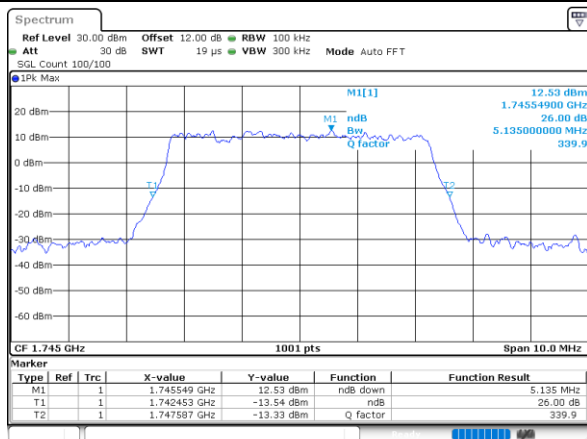
Date: 24.OCT.2021 05:57:15

Middle Channel / 3MHz / 64QAM



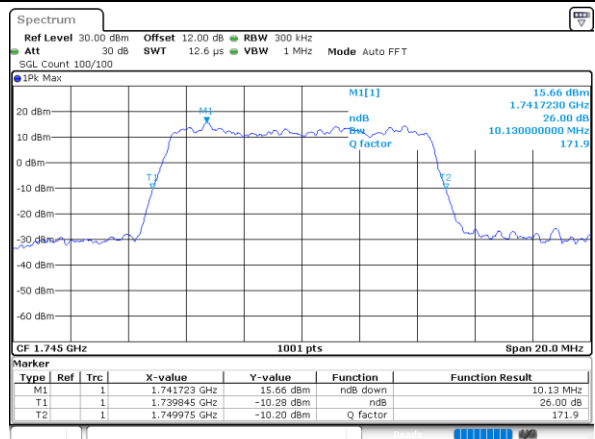
Date: 24.OCT.2021 06:09:34

Middle Channel / 5MHz / 64QAM



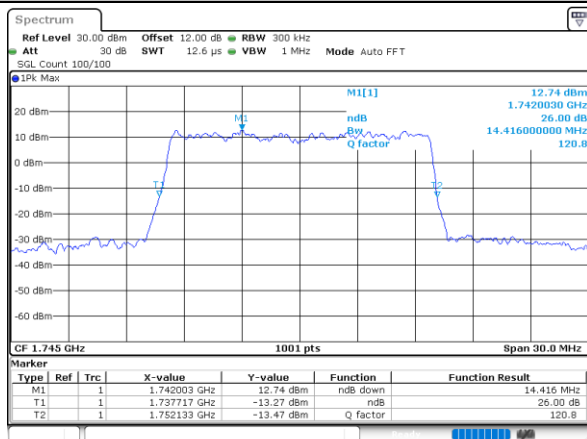
Date: 24.OCT.2021 06:12:39

Middle Channel / 10MHz / 64QAM



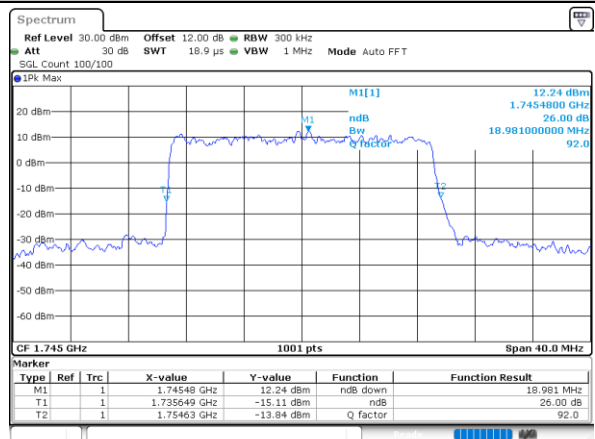
Date: 24.OCT.2021 06:13:26

Middle Channel / 15MHz / 64QAM



Date: 24.OCT.2021 06:37:31

Middle Channel / 20MHz / 64QAM

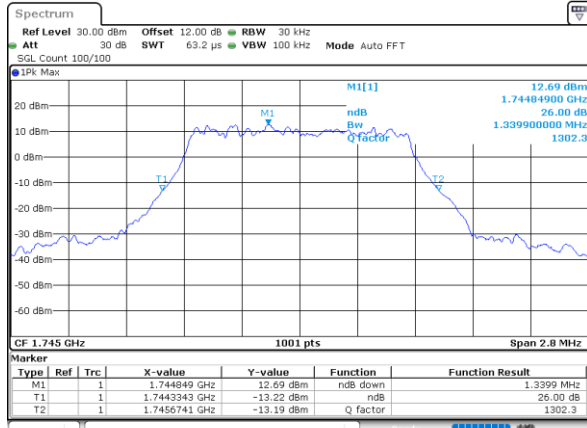


Date: 24.OCT.2021 06:59:19



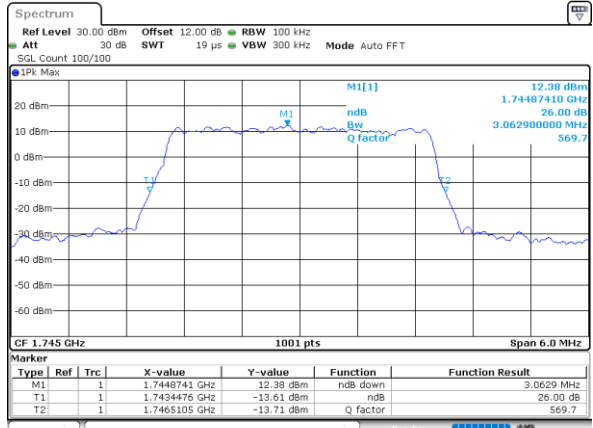
LTE Band 66

Middle Channel / 1.4MHz / 256QAM



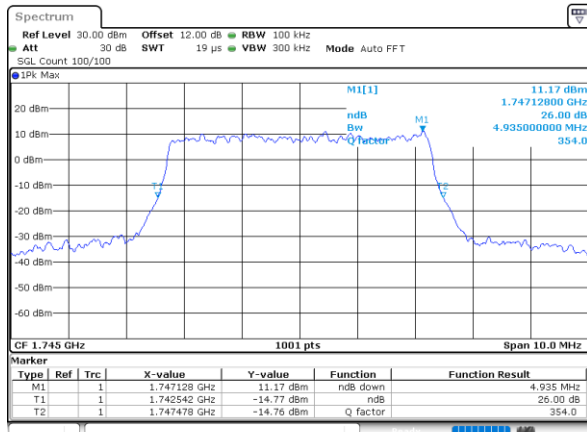
Date: 24.OCT.2021 04:56:54

Middle Channel / 3MHz / 256QAM



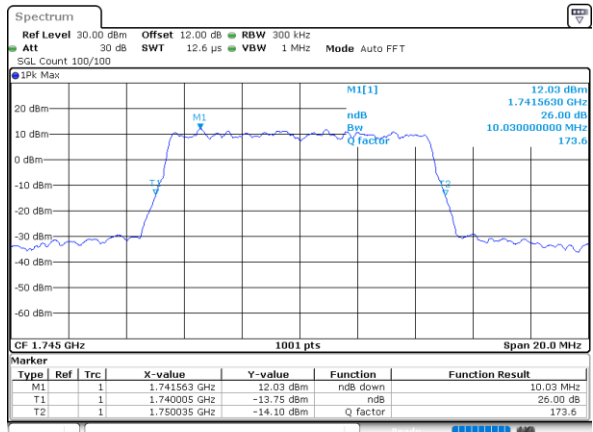
Date: 24.OCT.2021 05:07:08

Middle Channel / 5MHz / 256QAM



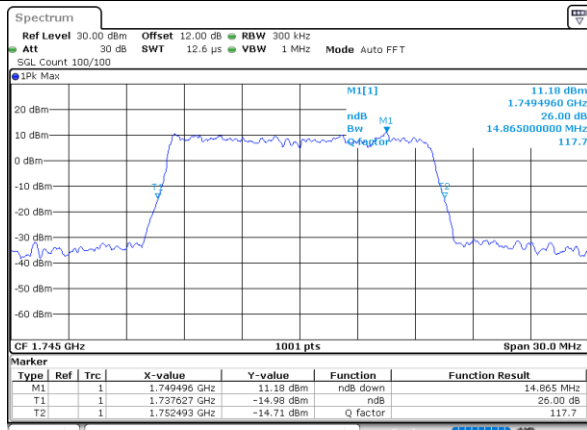
Date: 24.OCT.2021 05:21:24

Middle Channel / 10MHz / 256QAM



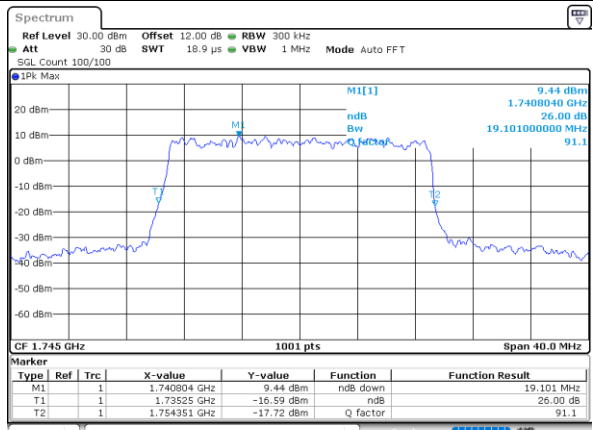
Date: 24.OCT.2021 05:26:59

Middle Channel / 15MHz / 256QAM



Date: 24.OCT.2021 05:32:20

Middle Channel / 20MHz / 256QAM



Date: 24.OCT.2021 05:40:10

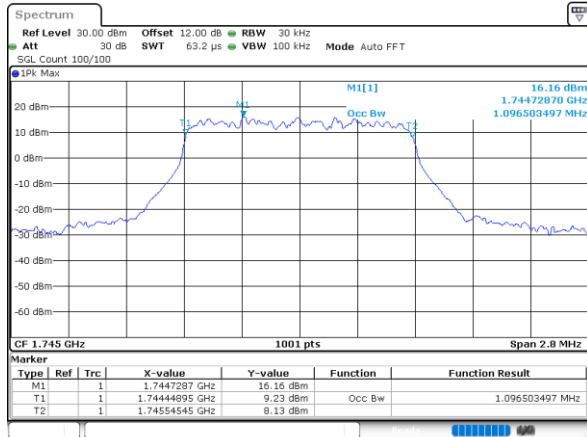
**Occupied Bandwidth**

Mode	LTE Band 66 : 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	2.73	2.72	4.52	4.52	8.99	9.09	13.46	13.49	17.94	17.94
Mode	LTE Band 66 : 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	1.10	1.10	2.75	2.75	4.49	4.48	9.03	9.01	13.46	13.46	18.02	17.98

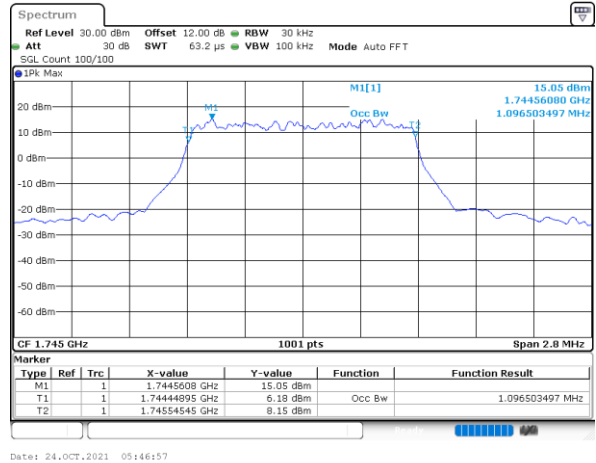


LTE Band 66

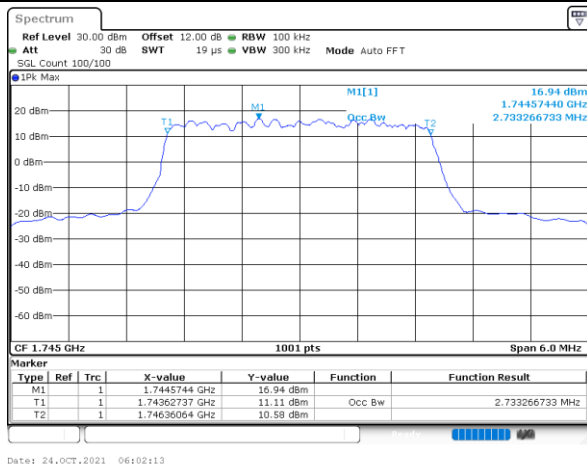
Middle Channel / 1.4MHz / QPSK



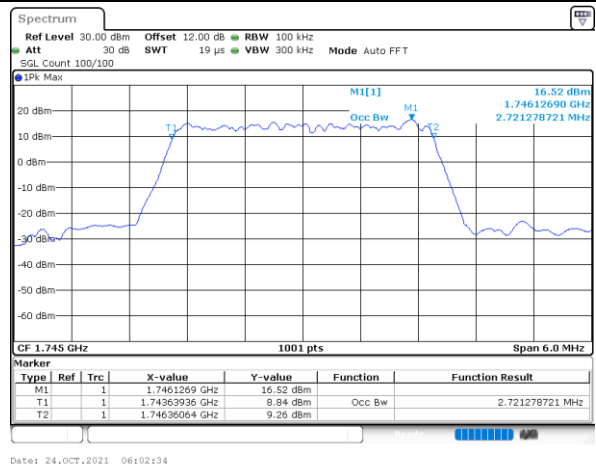
Middle Channel / 1.4MHz / 16QAM



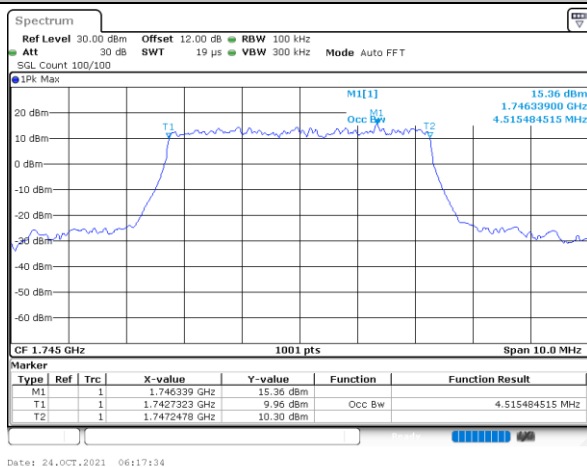
Middle Channel / 3MHz / QPSK



Middle Channel / 3MHz / 16QAM



Middle Channel / 5MHz / QPSK



Middle Channel / 5MHz / 16QAM

