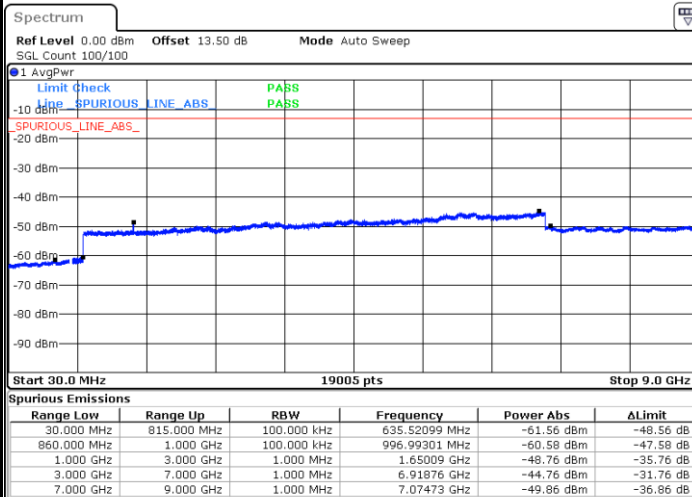




Conducted Spurious Emission

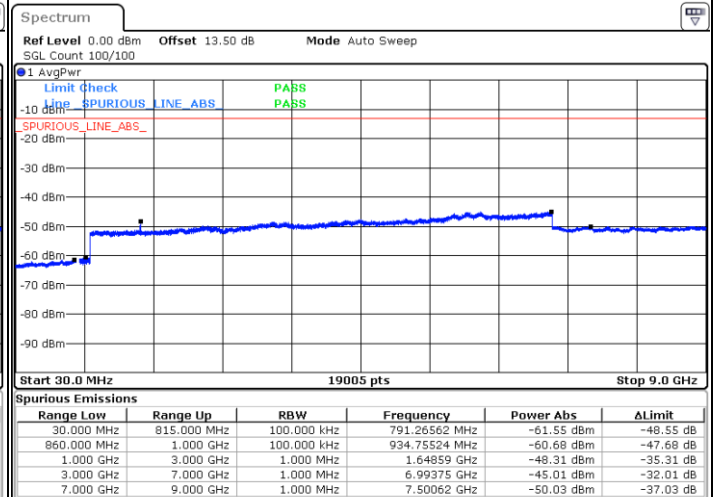
LTE Band 5 / 1.4MHz

Lowest Channel / QPSK



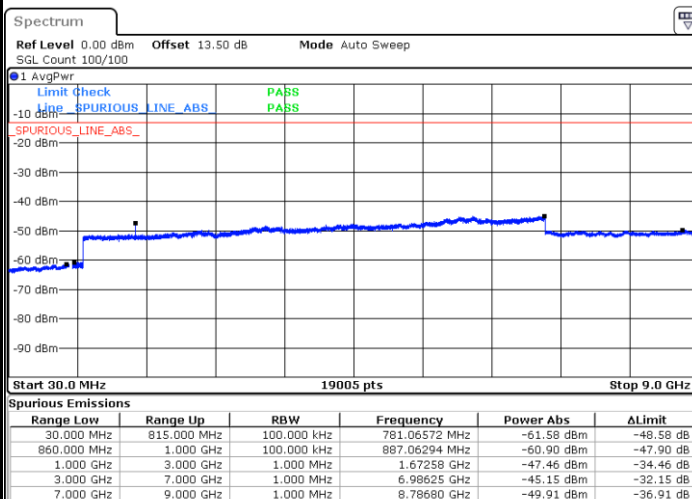
Date: 30.JUN.2022 15:09:01

Lowest Channel / 16QAM



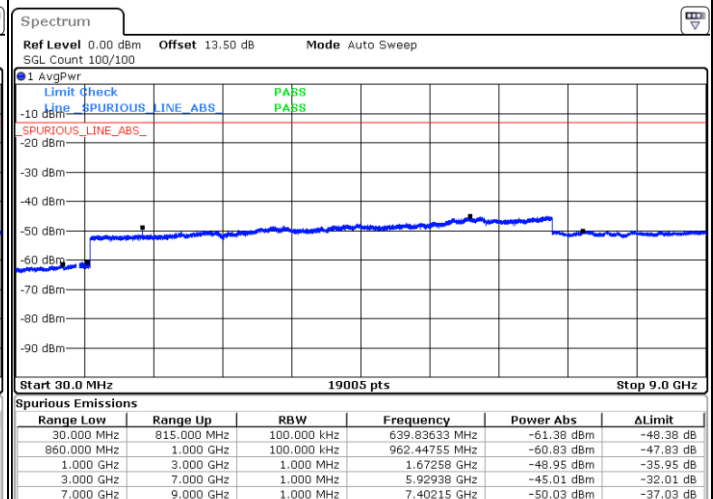
Date: 30.JUN.2022 13:50:40

Middle Channel / QPSK



Date: 30.JUN.2022 15:09:53

Middle Channel / 16QAM

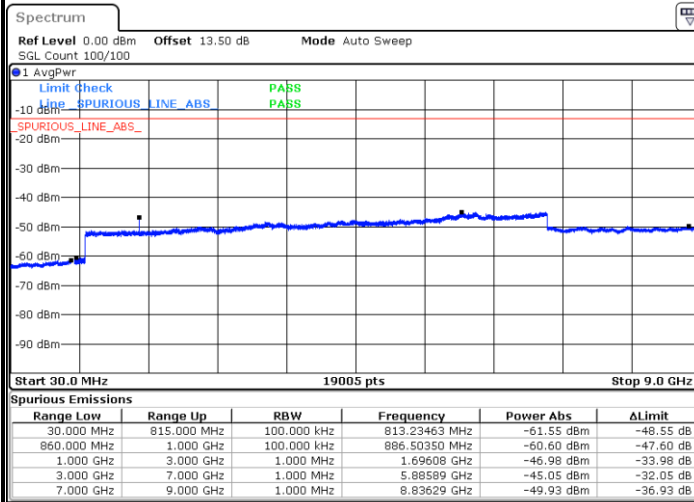


Date: 30.JUN.2022 14:05:52



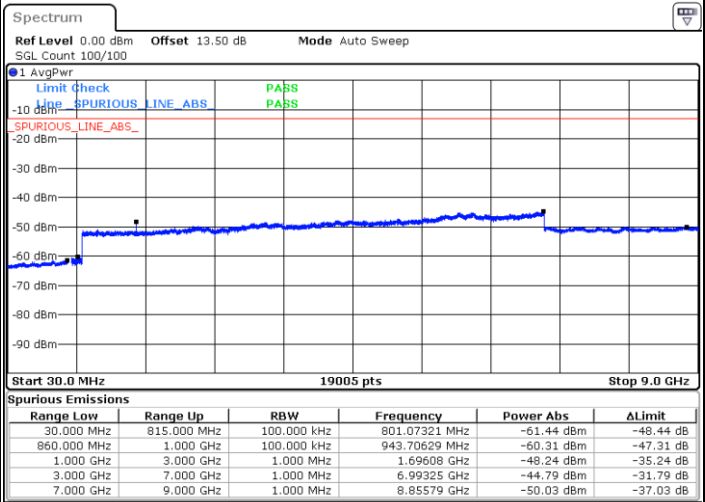
LTE Band 5 / 1.4MHz

Highest Channel / QPSK



Date: 30.JUN.2022 15:10:46

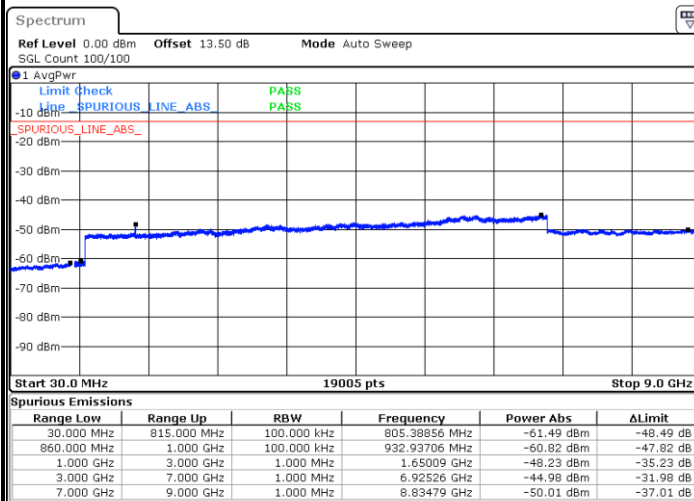
Highest Channel / 16QAM



Date: 30.JUN.2022 14:16:44

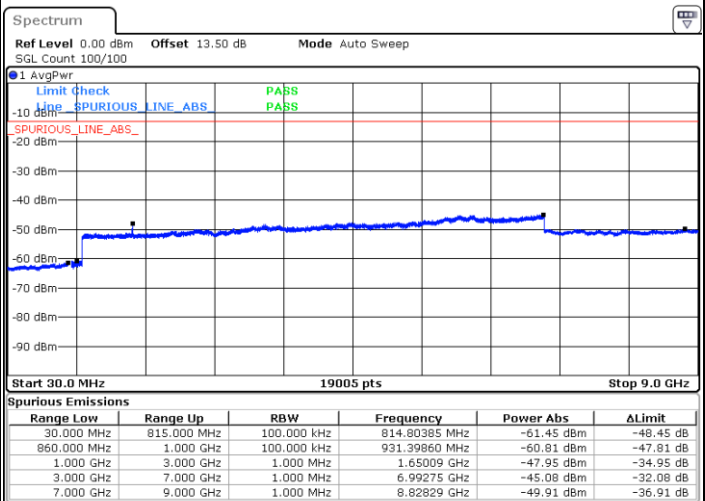
LTE Band 5 / 3MHz

Lowest Channel / QPSK



Date: 30.JUN.2022 14:53:31

Lowest Channel / 16QAM

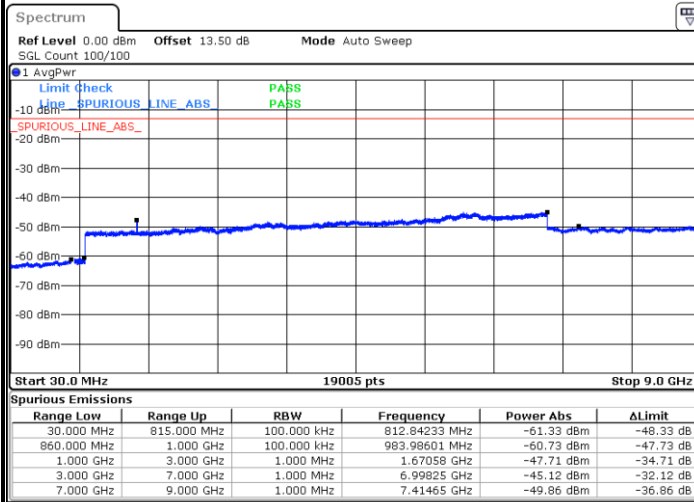


Date: 30.JUN.2022 11:43:22



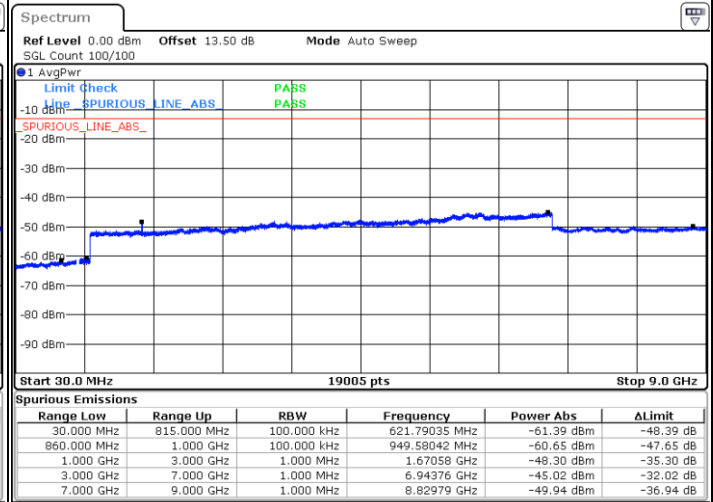
LTE Band 5 / 3MHz

Middle Channel / QPSK



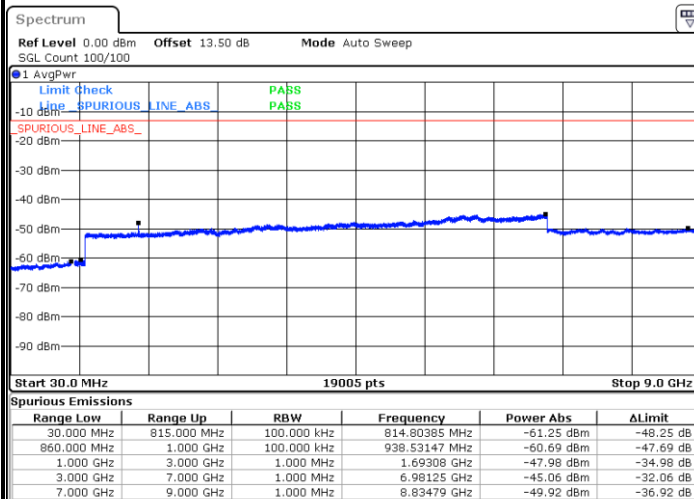
Date: 30.JUN.2022 14:54:23

Middle Channel / 16QAM



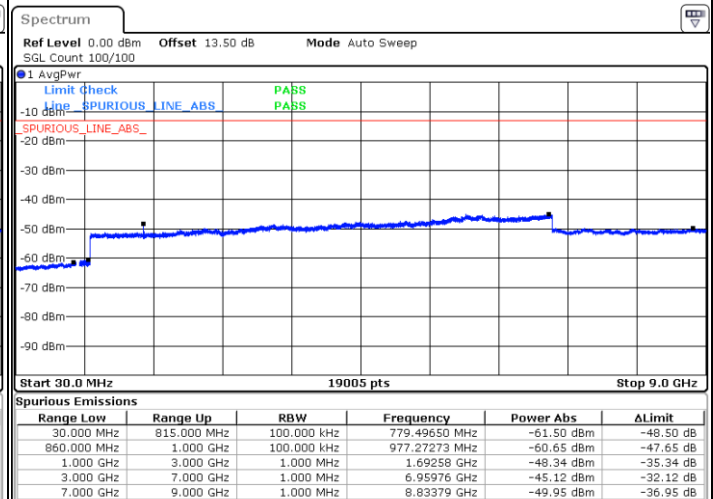
Date: 30.JUN.2022 11:44:53

Highest Channel / QPSK



Date: 30.JUN.2022 14:55:16

Highest Channel / 16QAM

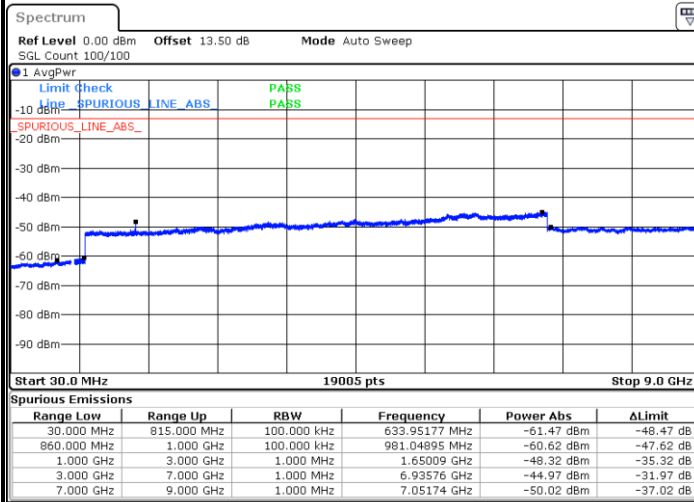


Date: 30.JUN.2022 11:50:10



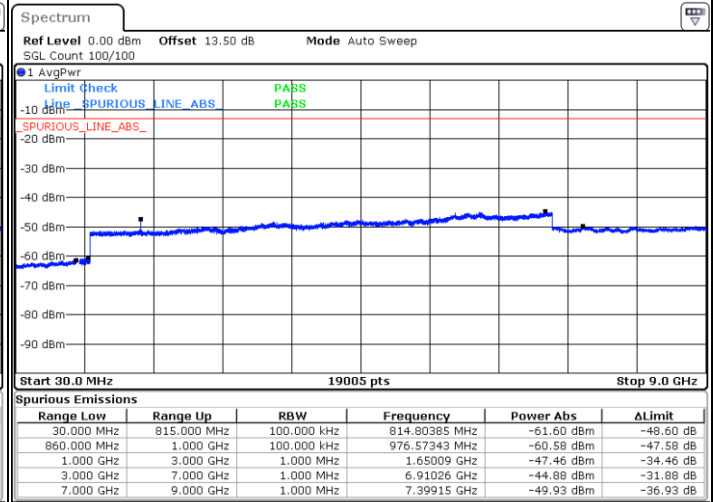
LTE Band 5 / 5MHz

Lowest Channel / QPSK



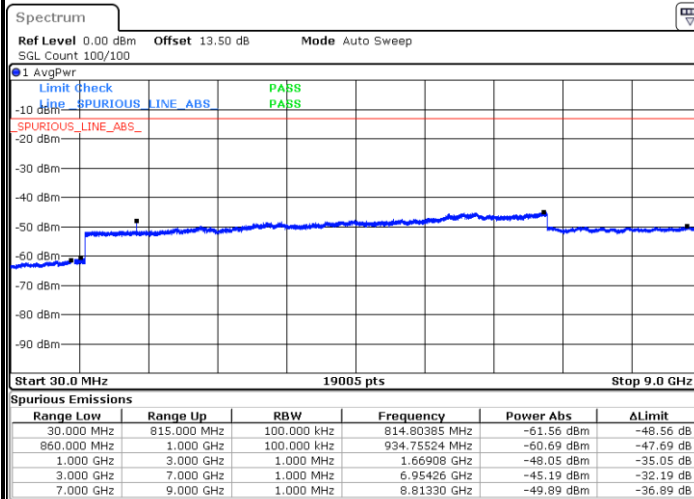
Date: 30.JUN.2022 14:56:09

Lowest Channel / 16QAM



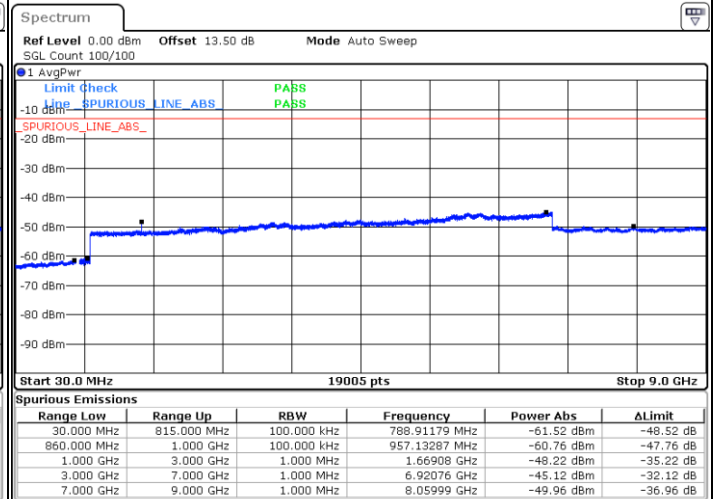
Date: 30.JUN.2022 11:55:27

Middle Channel / QPSK



Date: 30.JUN.2022 14:57:02

Middle Channel / 16QAM

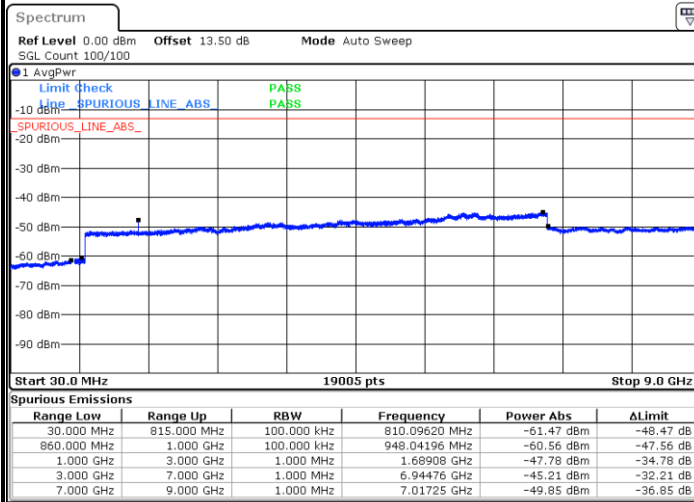


Date: 30.JUN.2022 11:56:58



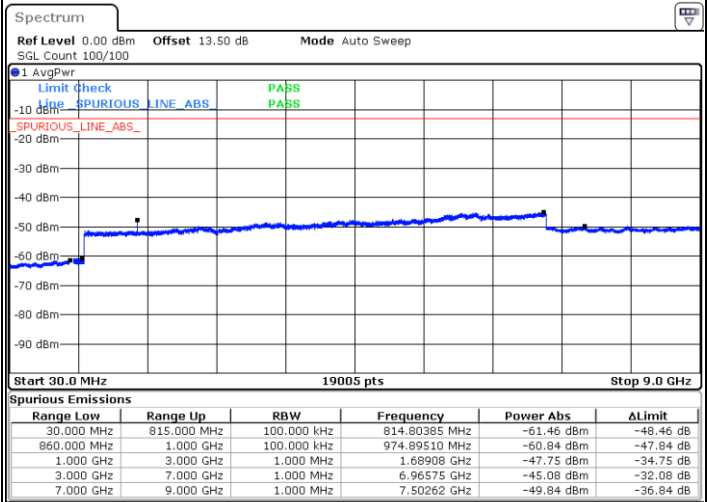
LTE Band 5 / 5MHz

Highest Channel / QPSK



Date: 30.JUN.2022 14:57:55

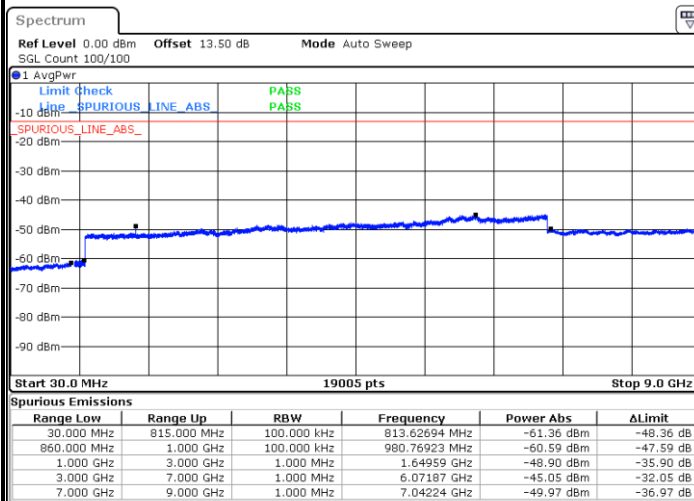
Highest Channel / 16QAM



Date: 30.JUN.2022 12:02:16

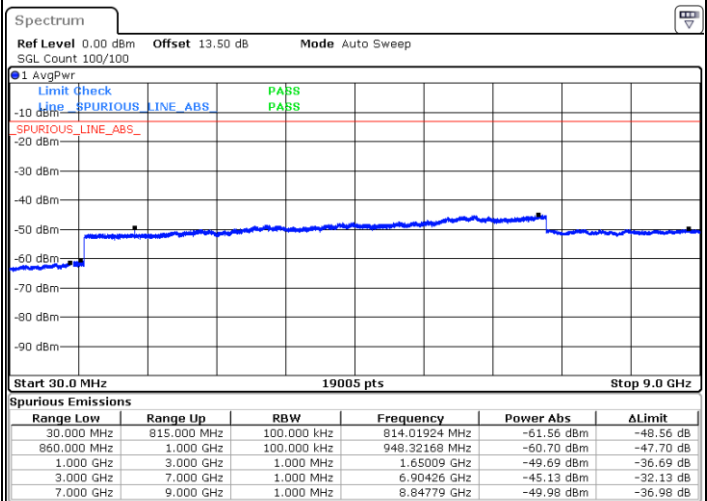
LTE Band 5 / 10MHz

Lowest Channel / QPSK



Date: 30.JUN.2022 14:58:48

Lowest Channel / 16QAM

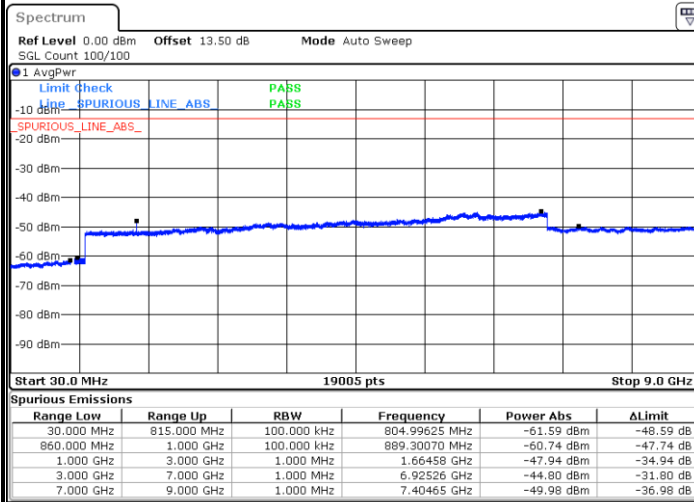


Date: 30.JUN.2022 12:07:33



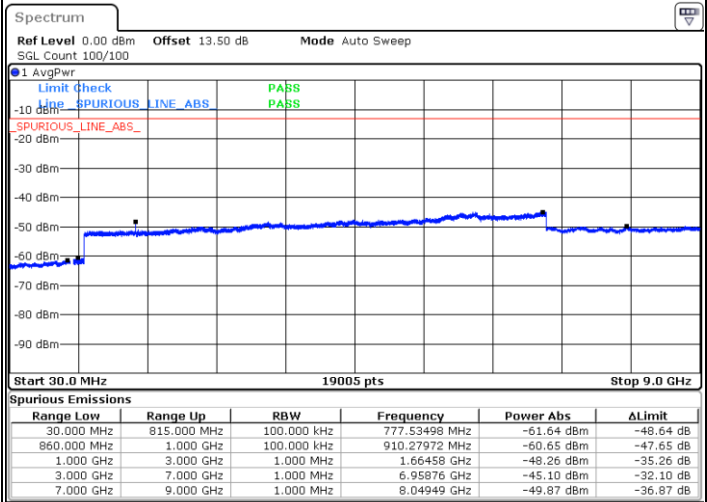
LTE Band 5 / 10MHz

Middle Channel / QPSK



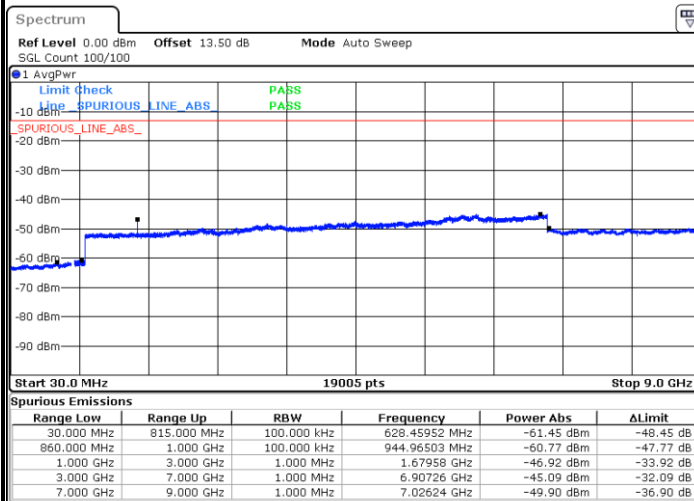
Date: 30.JUN.2022 14:59:41

Middle Channel / 16QAM



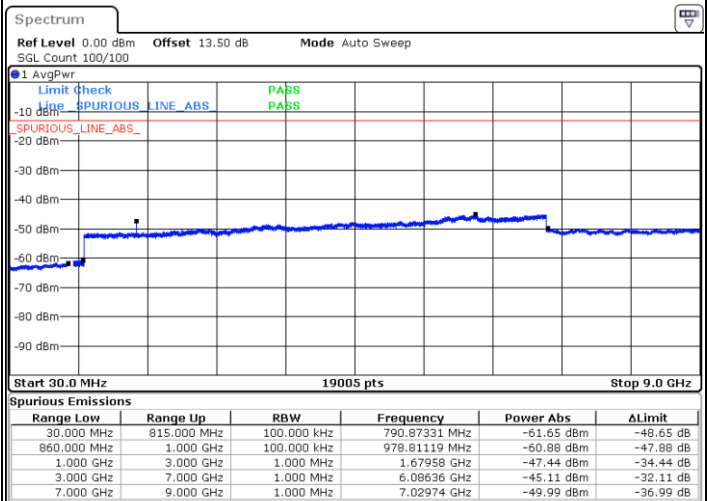
Date: 30.JUN.2022 12:09:04

Highest Channel / QPSK



Date: 30.JUN.2022 15:00:33

Highest Channel / 16QAM



Date: 30.JUN.2022 12:14:21

**Frequency Stability**

Test Conditions		LTE Band 5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	2.5ppm
		Deviation (ppm)	Result
70	Normal Voltage	0.0022	PASS
60	Normal Voltage	0.0020	
50	Normal Voltage	0.0022	
40	Normal Voltage	0.0020	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0007	
-10	Normal Voltage	0.0013	
-20	Normal Voltage	0.0002	
-30	Normal Voltage	0.0011	
20	Maximum Voltage	0.0012	
20	Normal Voltage	0.0000	
20	Minimum Voltage	0.0013	

Note:

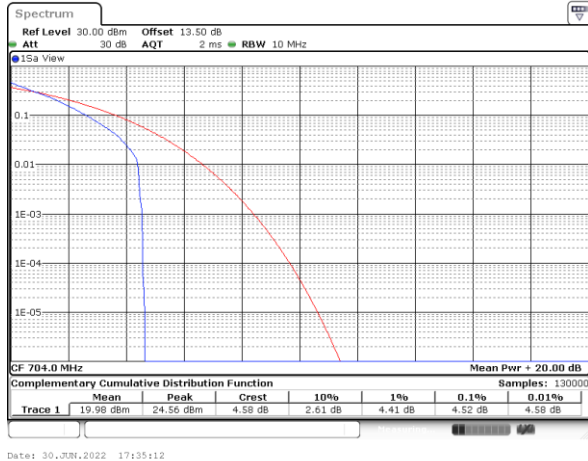
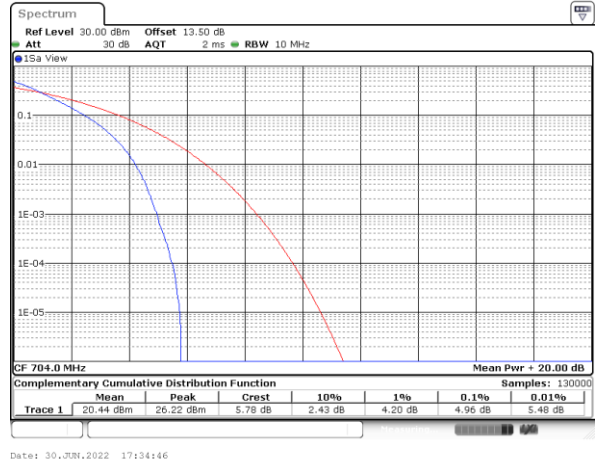
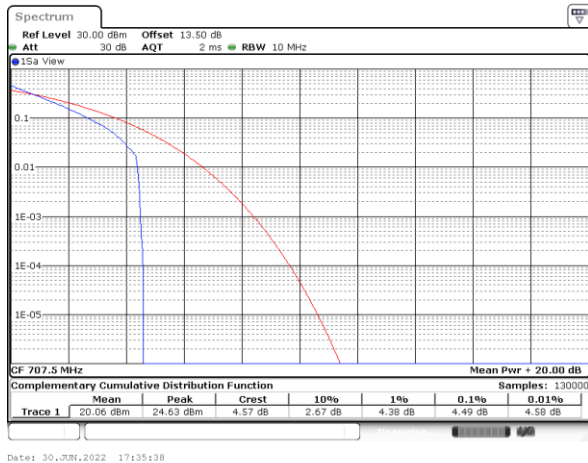
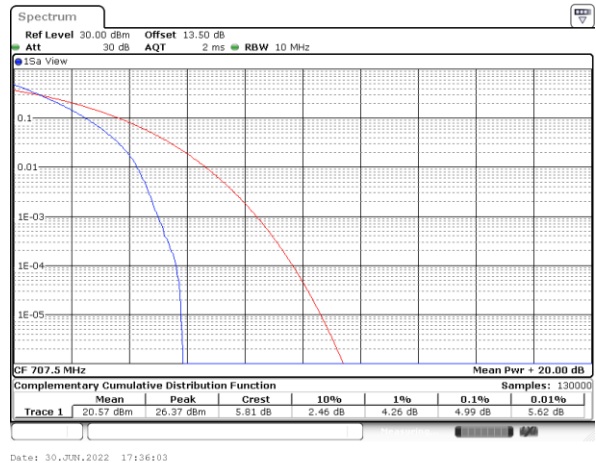
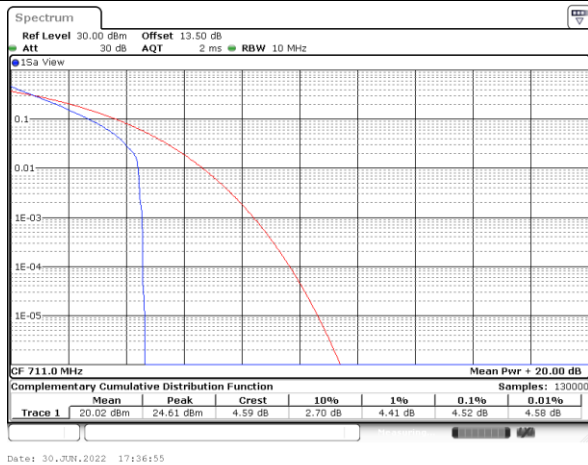
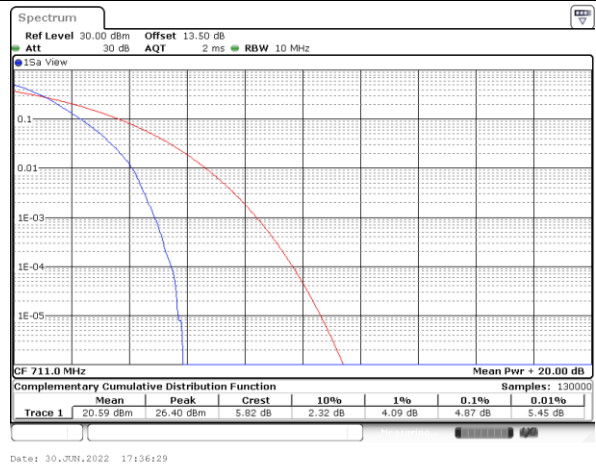
1. Normal Voltage =3.7 V. ; Minimum Voltage =3.4 V. ; Maximum Voltage =4.2 V.

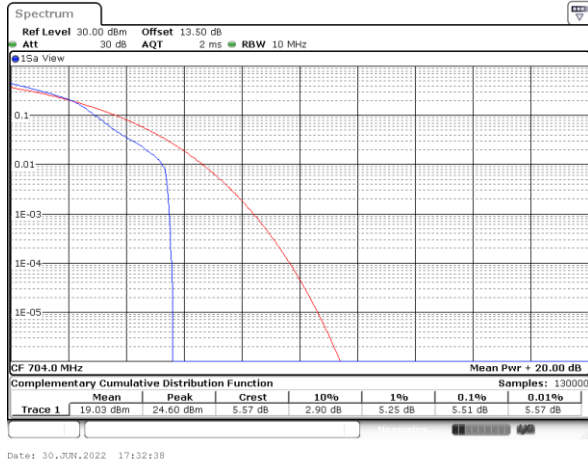
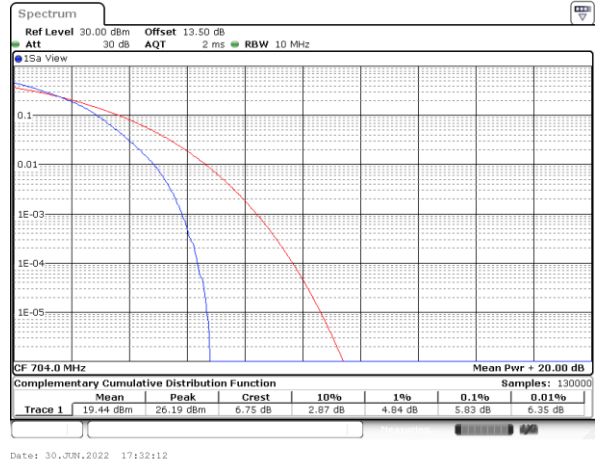
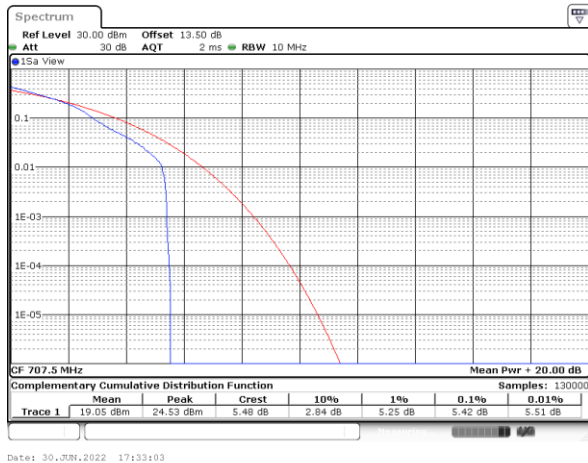
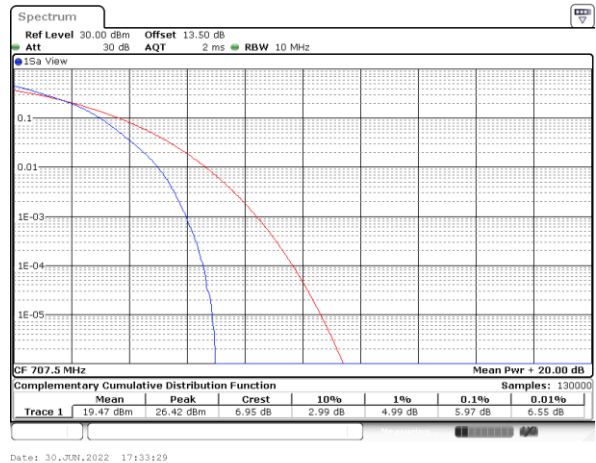
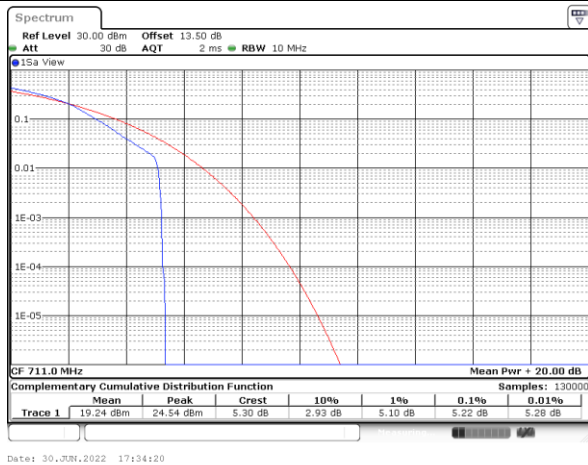
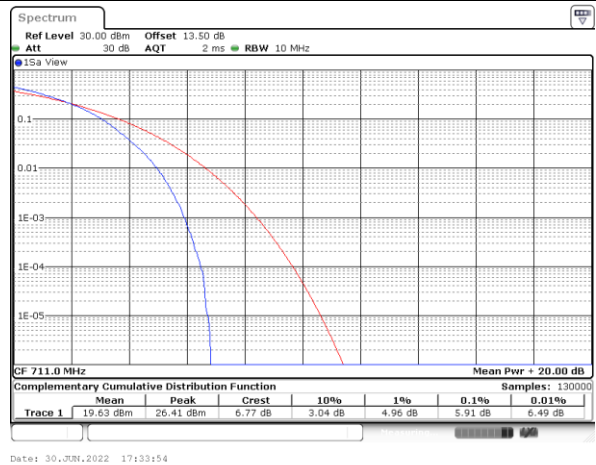


LTE Band 12

Peak-to-Average Ratio

Mode	LTE Band 12 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	4.52	4.96	5.51	5.83	PASS
Middle CH	4.49	4.99	5.42	5.97	
Highest CH	4.52	4.87	5.22	5.91	

LTE Band 12 / 10MHz / QPSK
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB


LTE Band 12 / 10MHz / 16QAM
Lowest Channel / 1RB

Lowest Channel / Full RB

Middle Channel / 1RB

Middle Channel / Full RB

Highest Channel / 1RB

Highest Channel / Full RB




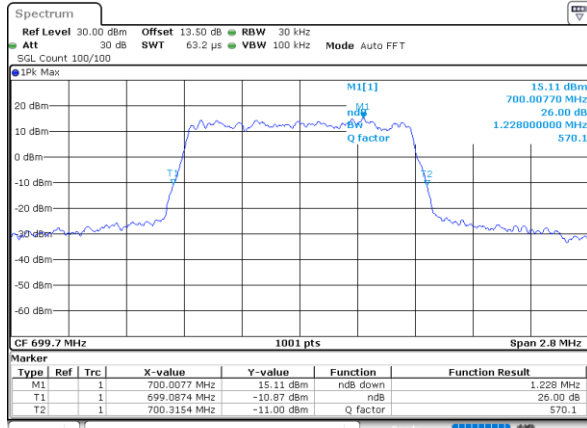
26dB Bandwidth

Mode	LTE Band 12 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.23	1.22	3.07	3.00	4.97	4.92	9.83	9.75	-	-	-	-
Middle CH	1.23	1.23	3.02	3.03	4.91	4.94	9.79	9.95	-	-	-	-
Highest CH	1.22	1.23	3.01	3.05	4.92	4.85	9.75	9.79	-	-	-	-



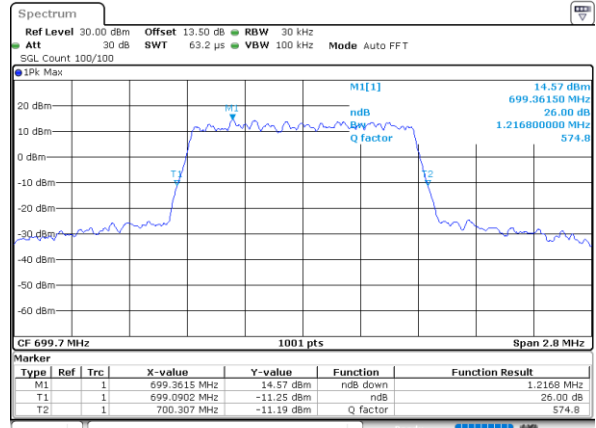
LTE Band 12

Lowest Channel / 1.4MHz / QPSK



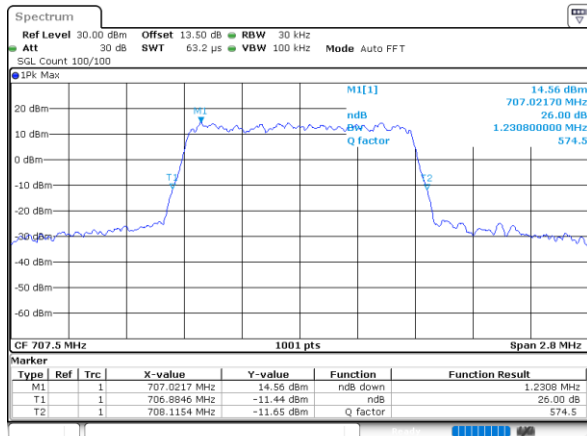
Date: 30 JUN 2022 17:15:42

Lowest Channel / 1.4MHz / 16QAM



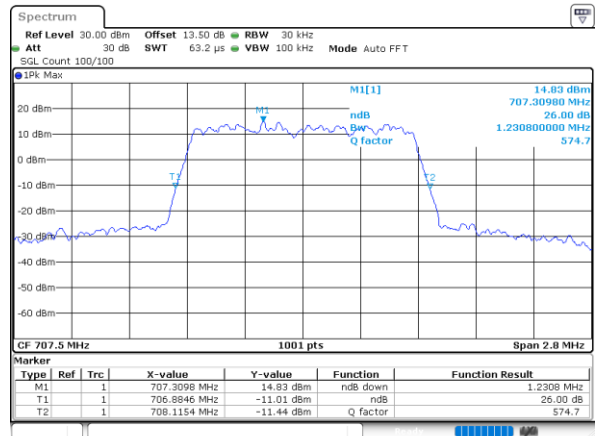
Date: 30 JUN 2022 17:15:18

Middle Channel / 1.4MHz / QPSK



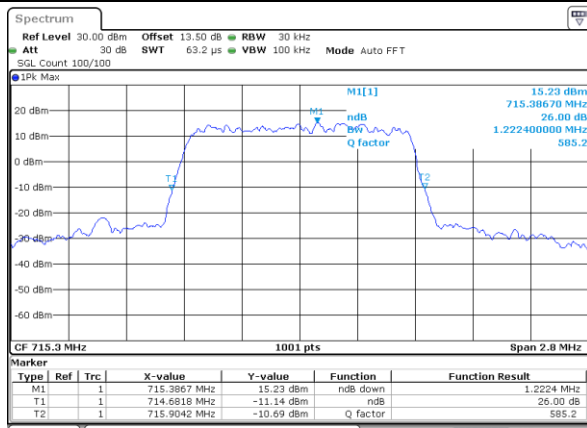
Date: 30 JUN 2022 17:22:23

Middle Channel / 1.4MHz / 16QAM



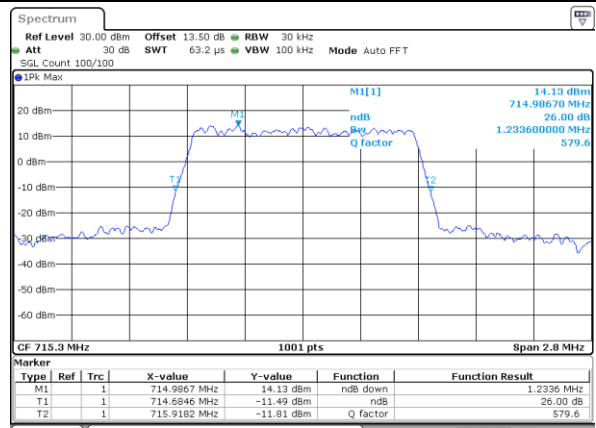
Date: 30 JUN 2022 17:22:46

Highest Channel / 1.4MHz / QPSK



Date: 30 JUN 2022 17:25:58

Highest Channel / 1.4MHz / 16QAM

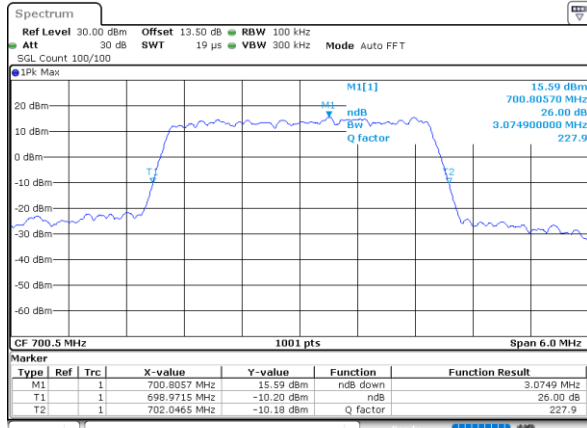


Date: 30 JUN 2022 17:25:34

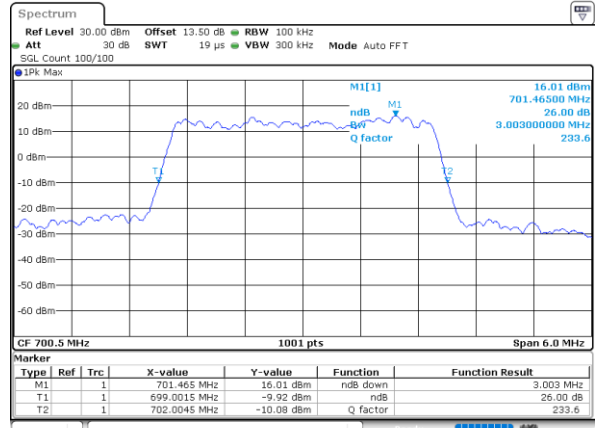


LTE Band 12

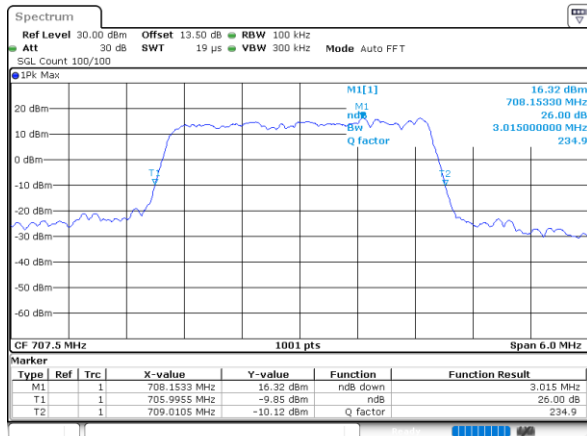
Lowest Channel / 3MHz / QPSK



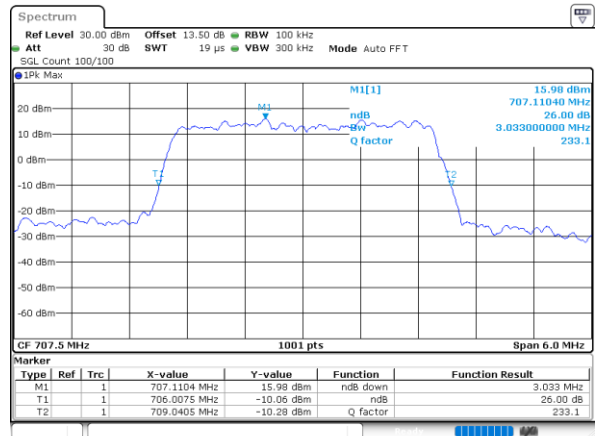
Lowest Channel / 3MHz / 16QAM



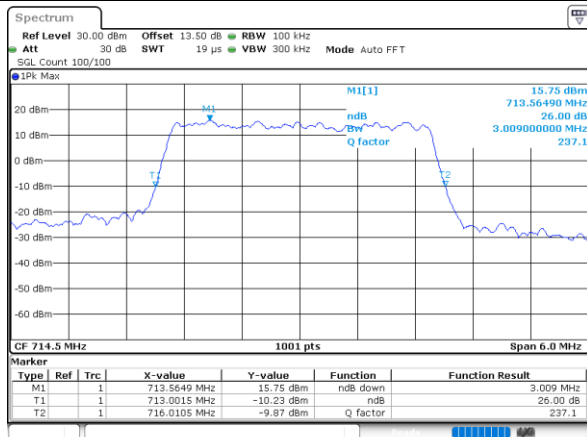
Middle Channel / 3MHz / QPSK



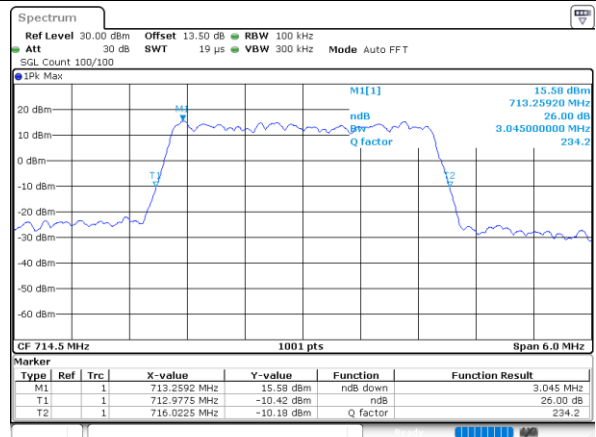
Middle Channel / 3MHz / 16QAM



Highest Channel / 3MHz / QPSK



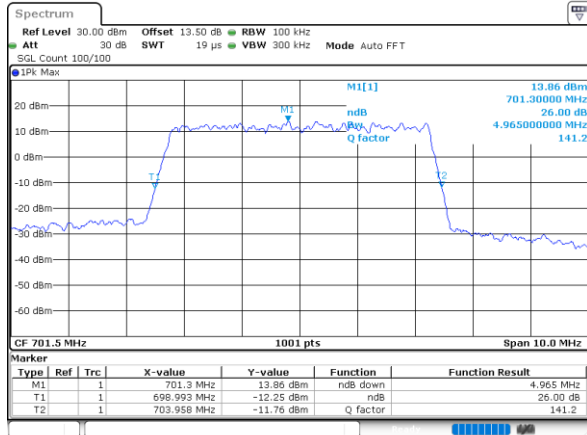
Highest Channel / 3MHz / 16QAM





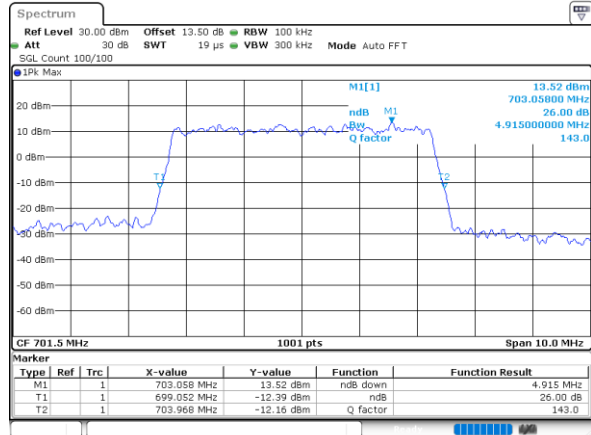
LTE Band 12

Lowest Channel / 5MHz / QPSK



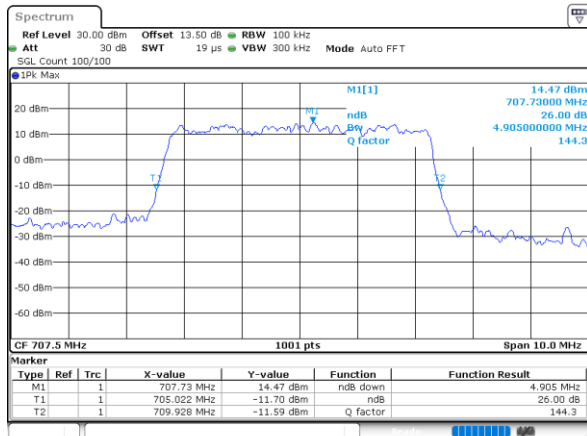
Date: 30 JUN 2022 16:36:20

Lowest Channel / 5MHz / 16QAM



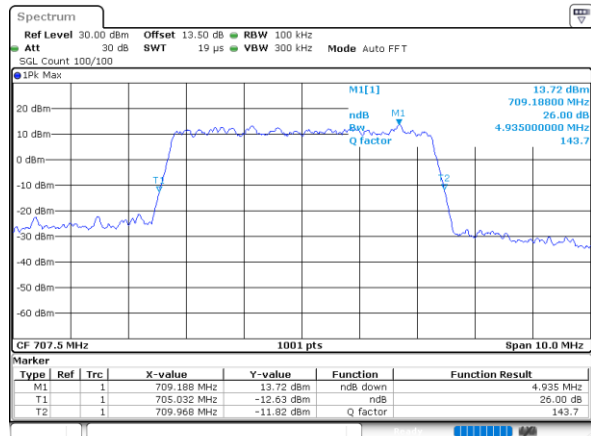
Date: 30 JUN 2022 16:35:57

Middle Channel / 5MHz / QPSK



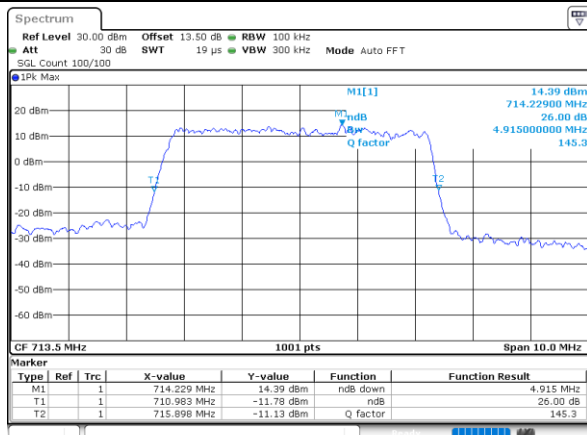
Date: 30 JUN 2022 16:43:01

Middle Channel / 5MHz / 16QAM



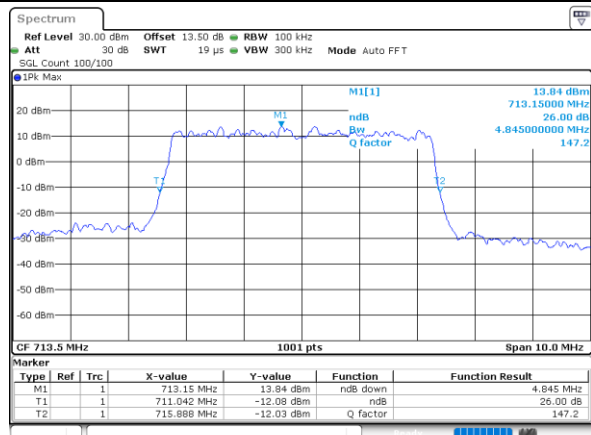
Date: 30 JUN 2022 16:43:25

Highest Channel / 5MHz / QPSK



Date: 30 JUN 2022 16:46:35

Highest Channel / 5MHz / 16QAM

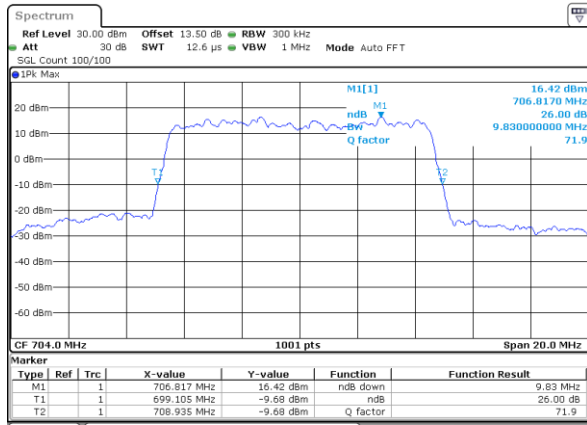


Date: 30 JUN 2022 16:46:12



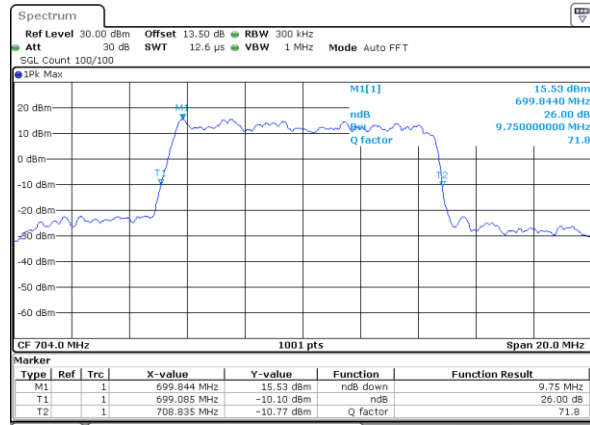
LTE Band 12

Lowest Channel / 10MHz / QPSK



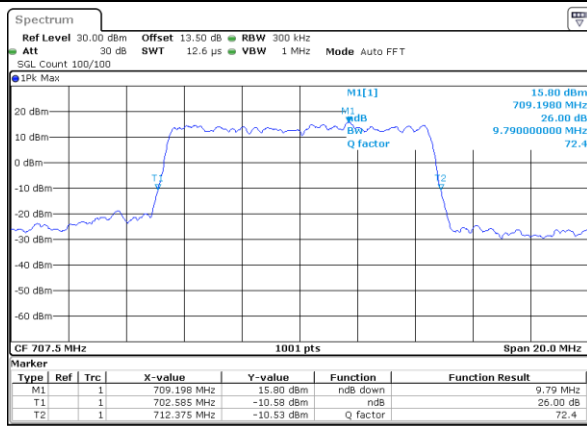
Date: 30 JUN 2022 16:53:51

Lowest Channel / 10MHz / 16QAM



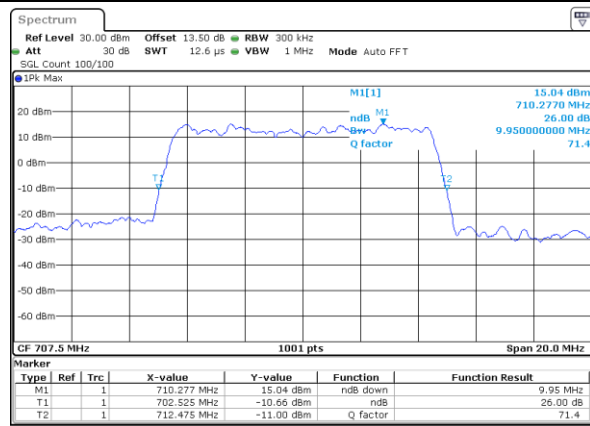
Date: 30 JUN 2022 16:53:27

Middle Channel / 10MHz / QPSK



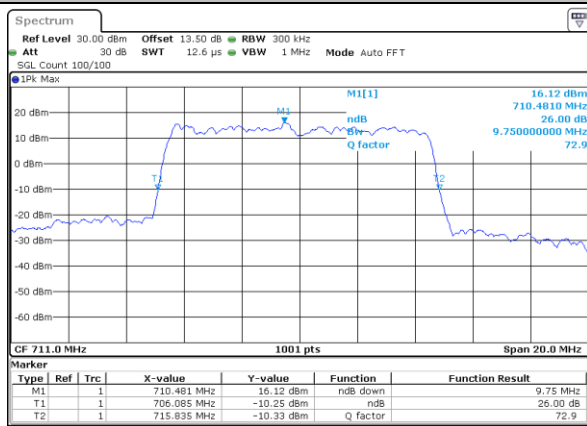
Date: 30 JUN 2022 17:00:32

Middle Channel / 10MHz / 16QAM



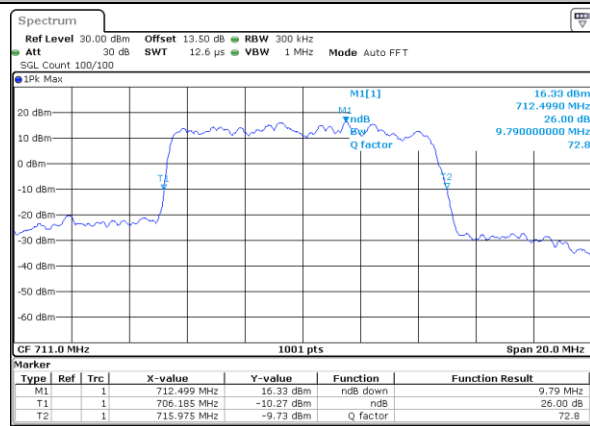
Date: 30 JUN 2022 17:00:55

Highest Channel / 10MHz / QPSK



Date: 30 JUN 2022 17:04:06

Highest Channel / 10MHz / 16QAM



Date: 30 JUN 2022 17:03:42



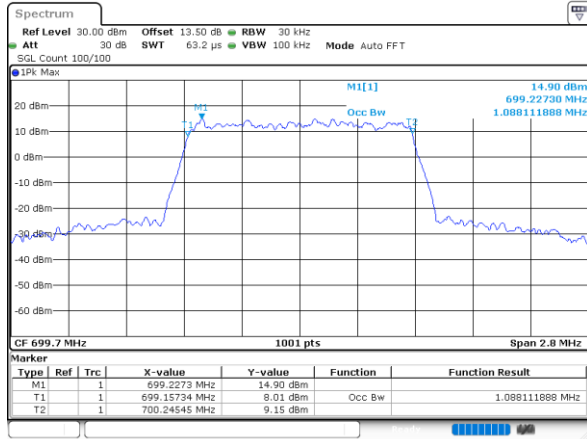
Occupied Bandwidth

Mode	LTE Band 12 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	1.09	1.09	2.72	2.72	4.49	4.49	9.01	8.99	-	-	-	-
Middle CH	1.09	1.09	2.72	2.72	4.50	4.50	9.09	9.05	-	-	-	-
Highest CH	1.08	1.08	2.70	2.72	4.49	4.50	9.01	9.01	-	-	-	-

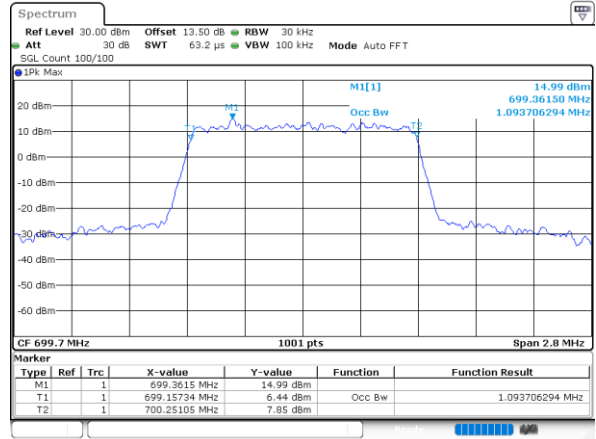


LTE Band 12

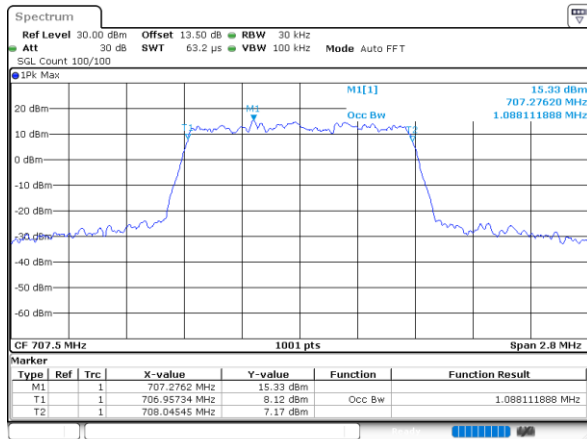
Lowest Channel / 1.4MHz / QPSK



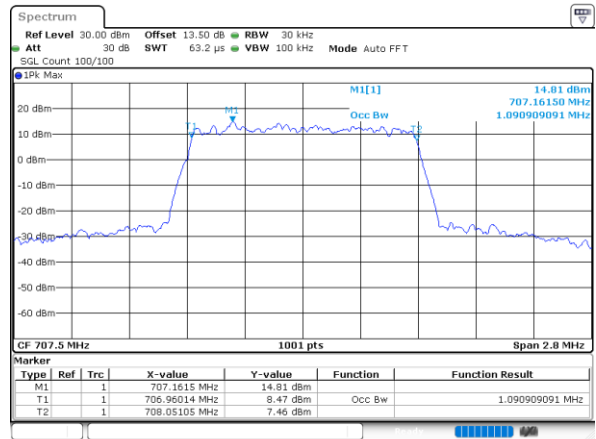
Lowest Channel / 1.4MHz / 16QAM



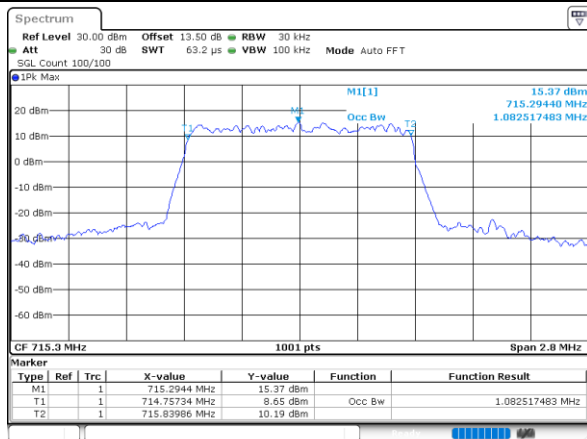
Middle Channel / 1.4MHz / QPSK



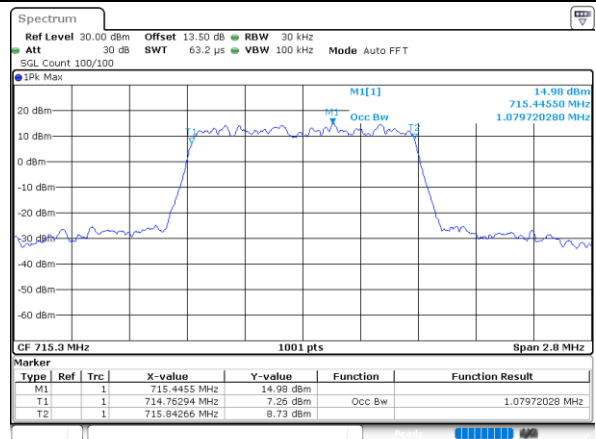
Middle Channel / 1.4MHz / 16QAM



Highest Channel / 1.4MHz / QPSK



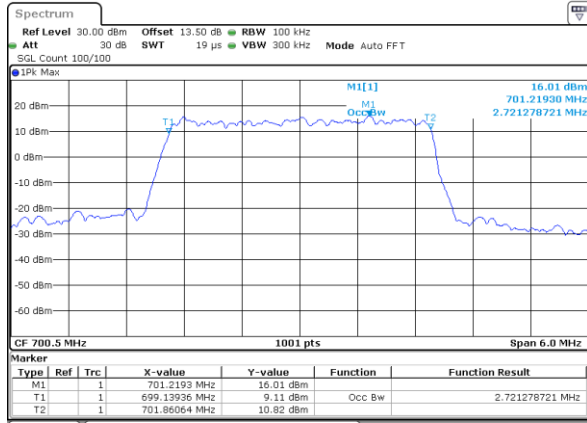
Highest Channel / 1.4MHz / 16QAM





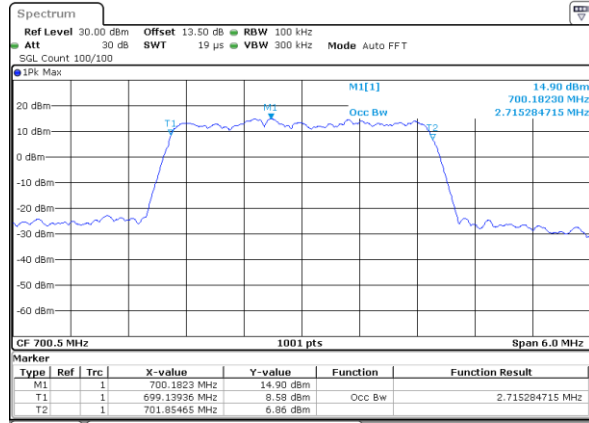
LTE Band 12

Lowest Channel / 3MHz / QPSK



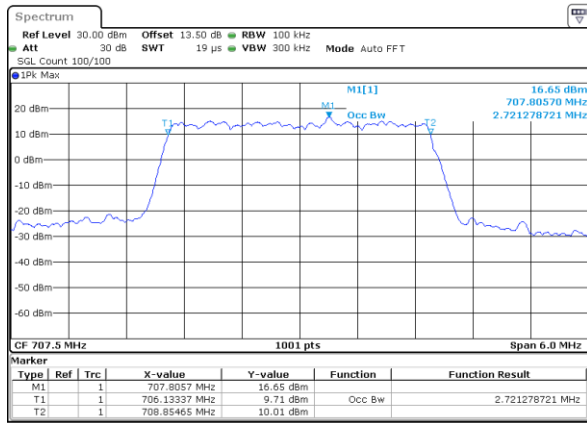
Date: 30 JUN 2022 16:17:47

Lowest Channel / 3MHz / 16QAM



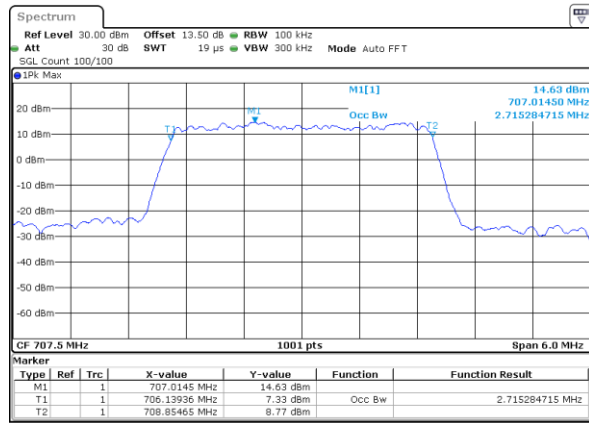
Date: 30 JUN 2022 16:18:11

Middle Channel / 3MHz / QPSK



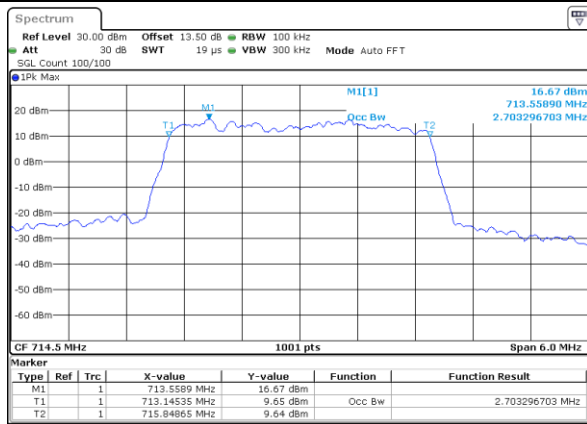
Date: 30 JUN 2022 16:25:16

Middle Channel / 3MHz / 16QAM



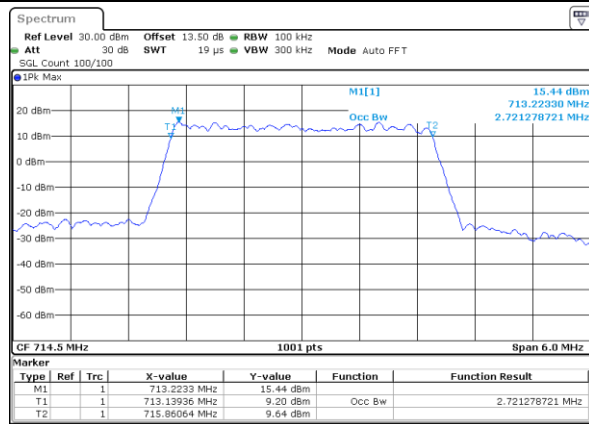
Date: 30 JUN 2022 16:24:53

Highest Channel / 3MHz / QPSK



Date: 30 JUN 2022 16:28:03

Highest Channel / 3MHz / 16QAM

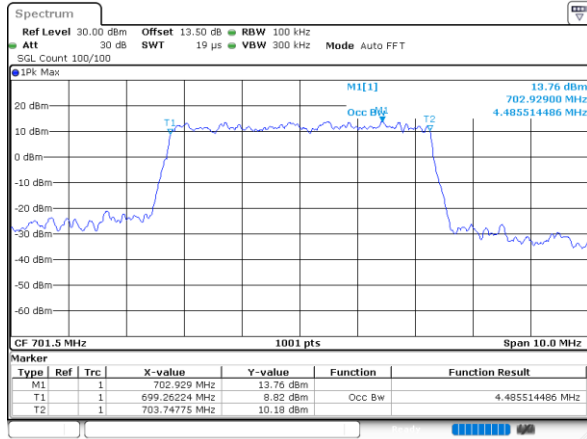


Date: 30 JUN 2022 16:28:26

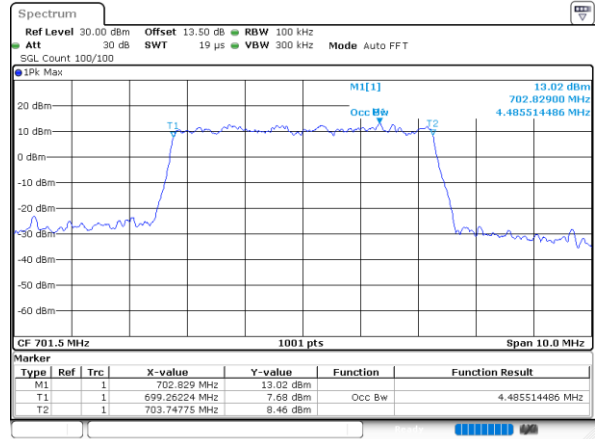


LTE Band 12

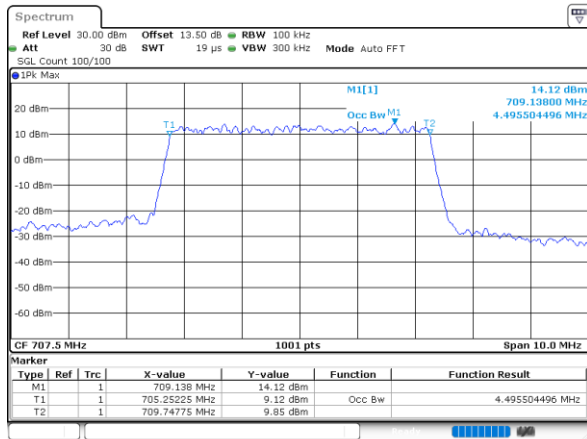
Lowest Channel / 5MHz / QPSK



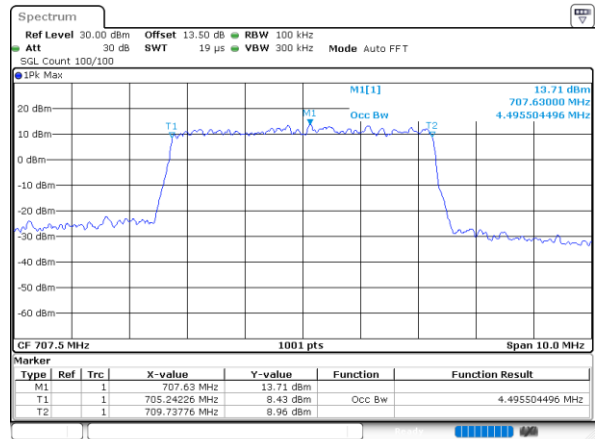
Lowest Channel / 5MHz / 16QAM



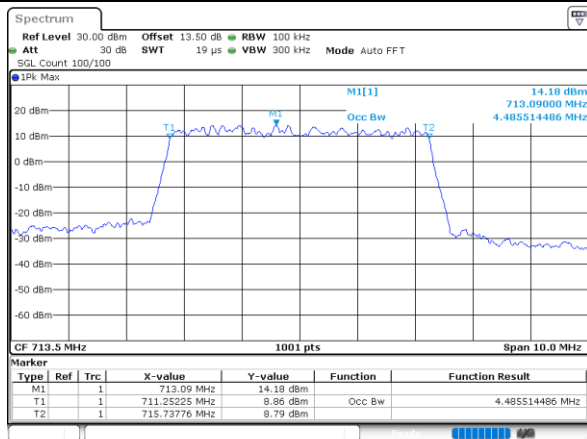
Middle Channel / 5MHz / QPSK



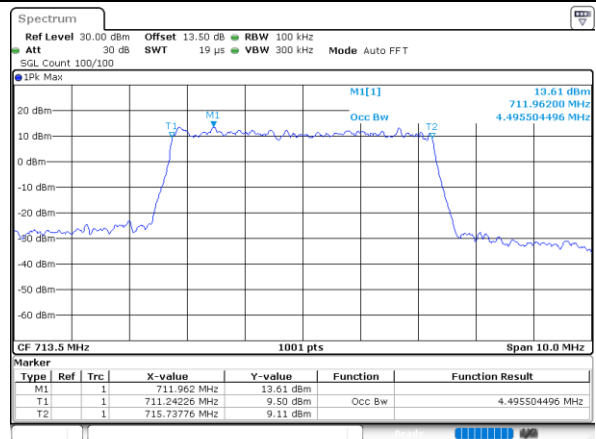
Middle Channel / 5MHz / 16QAM



Highest Channel / 5MHz / QPSK



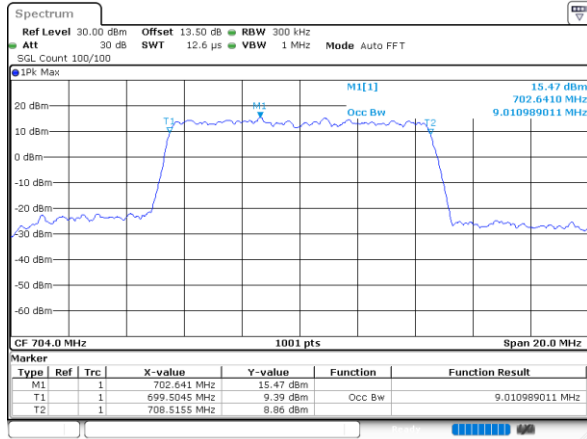
Highest Channel / 5MHz / 16QAM



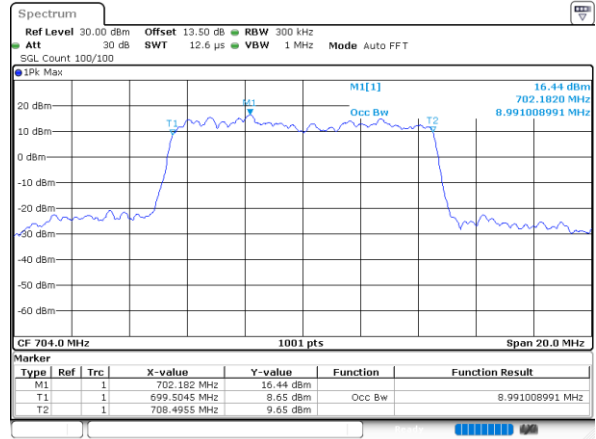


LTE Band 12

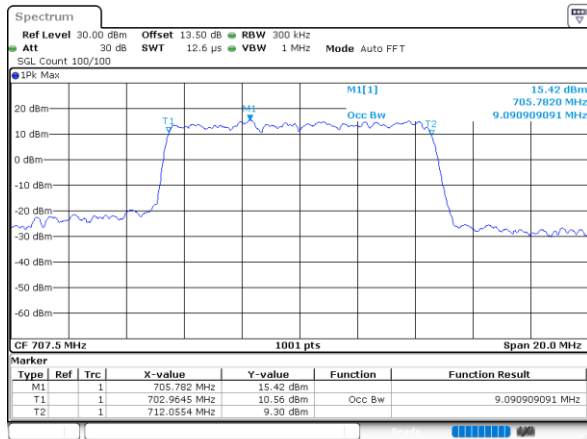
Lowest Channel / 10MHz / QPSK



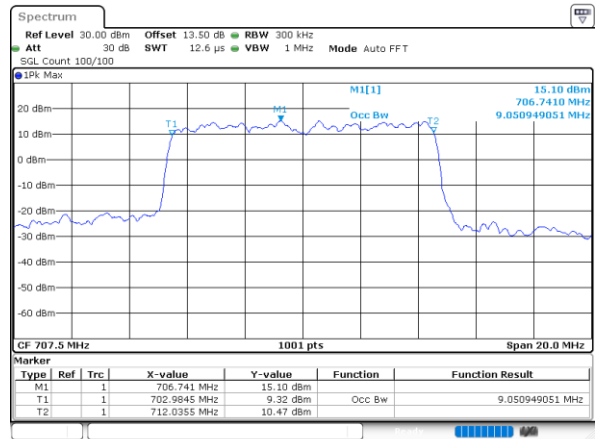
Lowest Channel / 10MHz / 16QAM



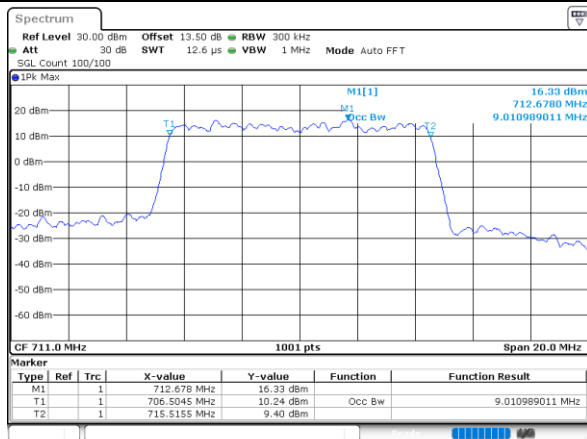
Middle Channel / 10MHz / QPSK



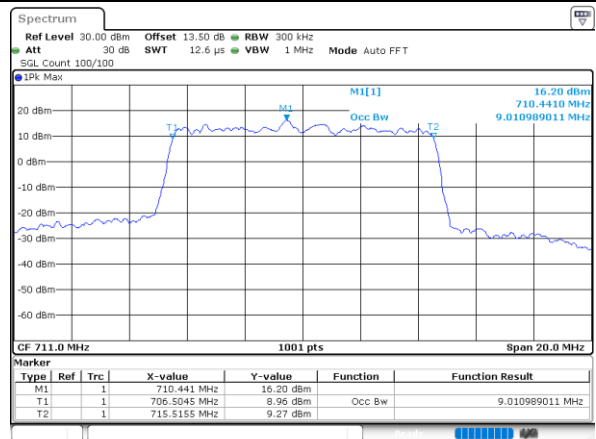
Middle Channel / 10MHz / 16QAM



Highest Channel / 10MHz / QPSK



Highest Channel / 10MHz / 16QAM

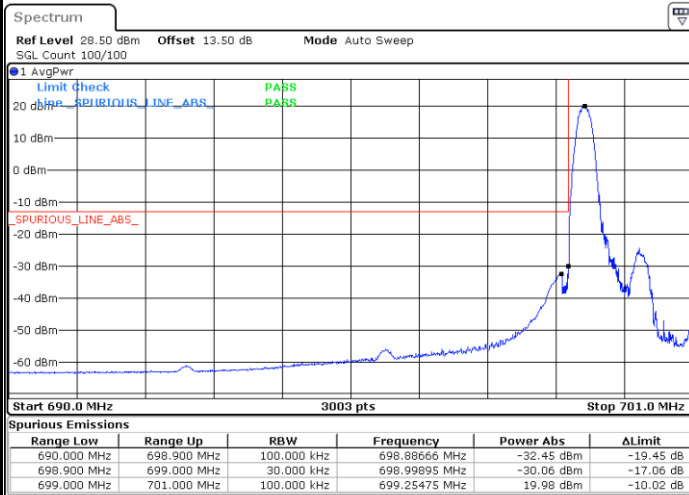




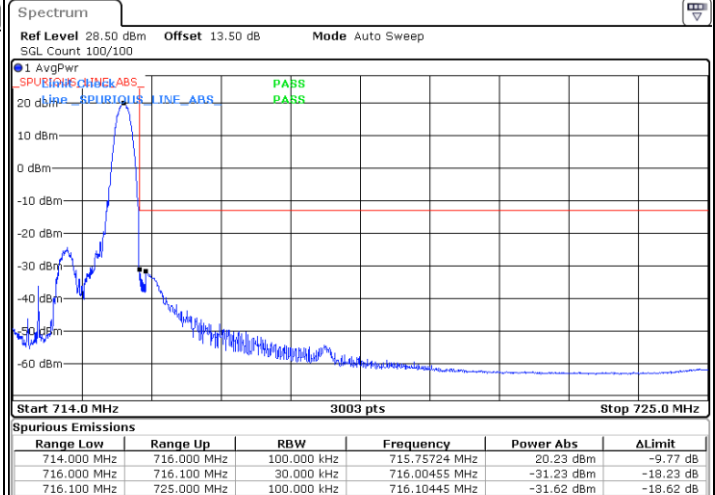
Conducted Band Edge

LTE Band 12 / 1.4MHz / QPSK

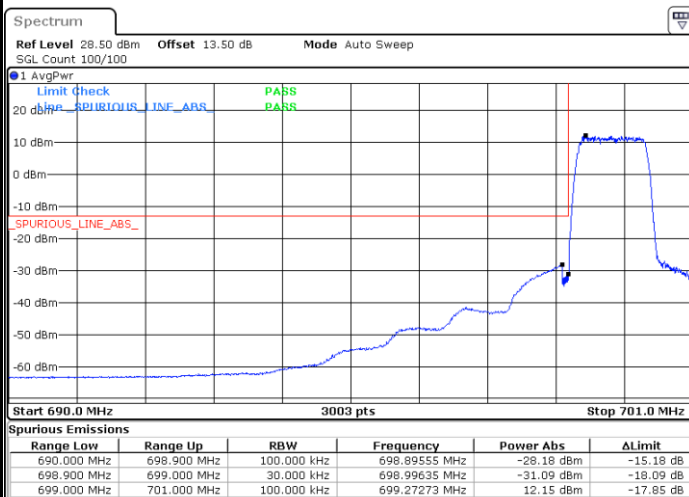
Lowest Band Edge / 1 RB



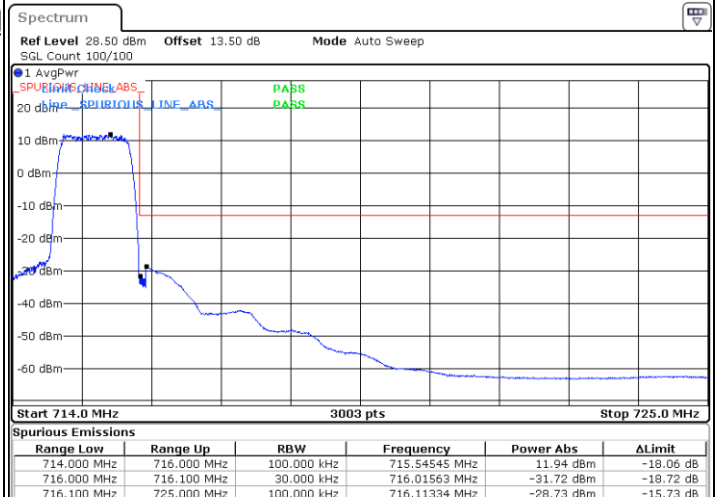
Highest Band Edge / 1RB



Lowest Band Edge / Full RB



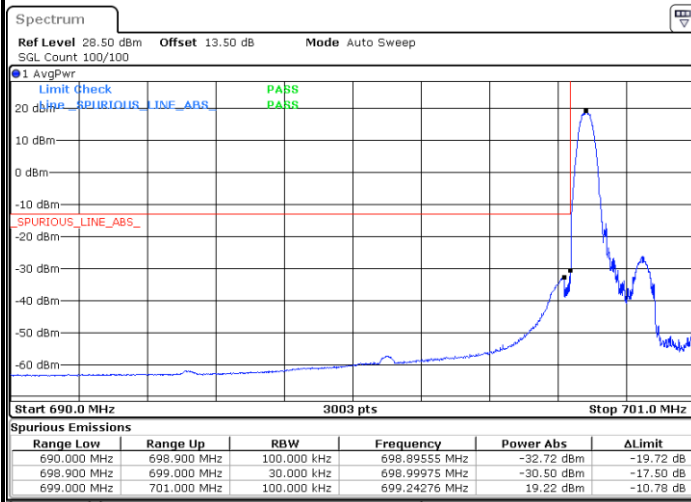
Highest Band Edge / Full RB



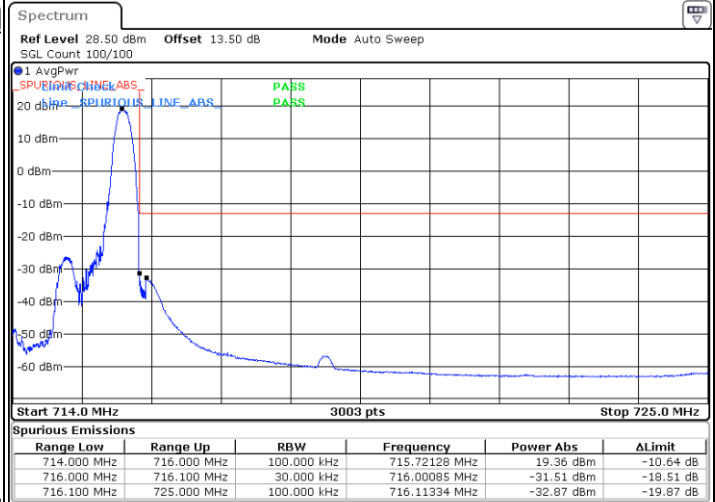


LTE Band 12 / 1.4MHz / 16QAM

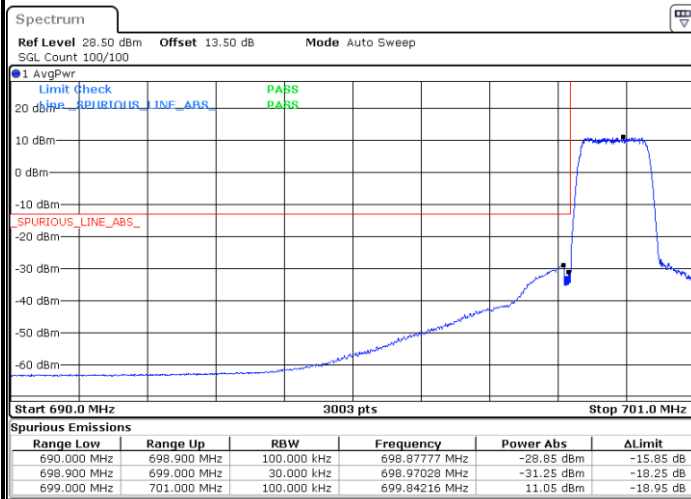
Lowest Band Edge / 1 RB



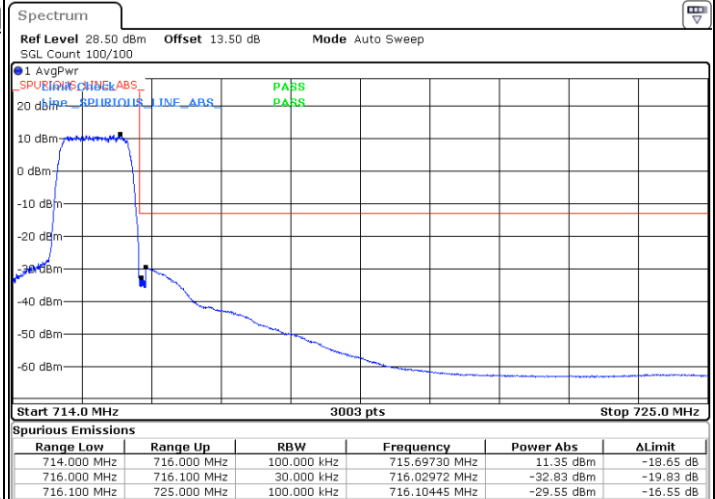
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



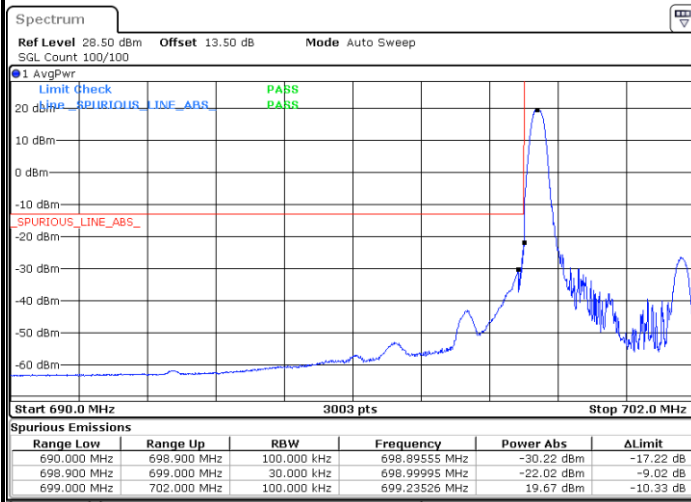
Highest Band Edge / Full RB



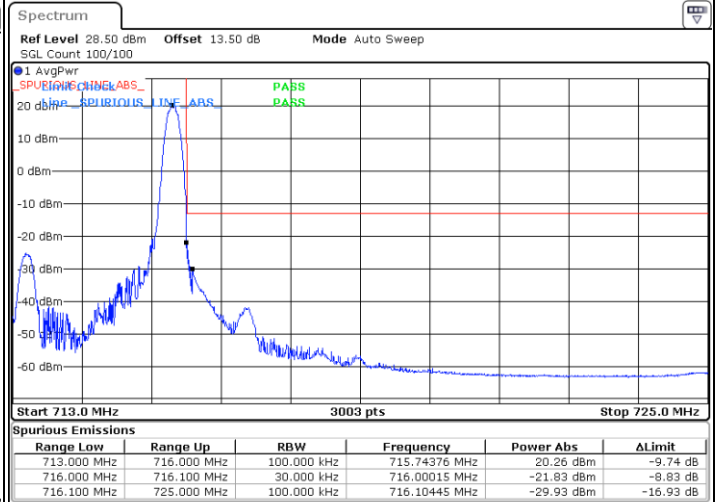


LTE Band 12 / 3MHz / QPSK

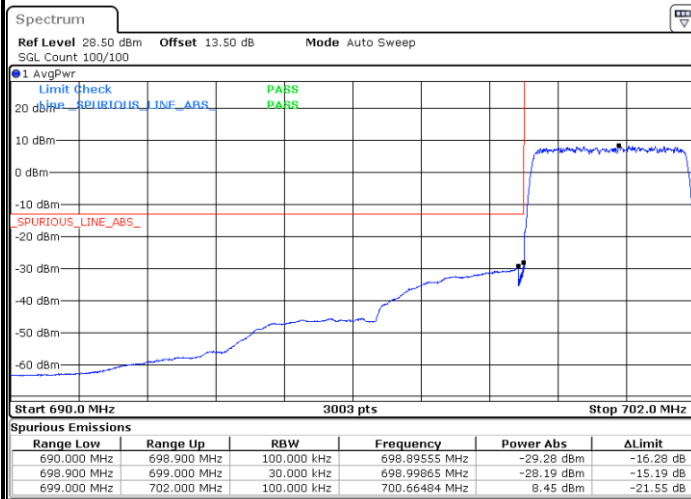
Lowest Band Edge / 1RB



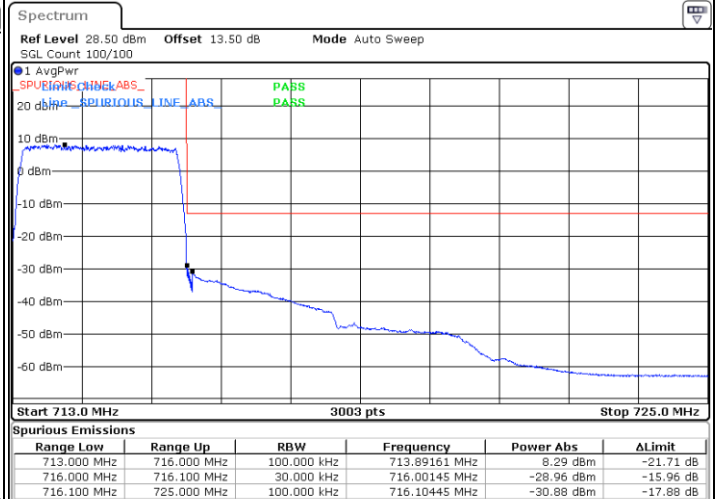
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



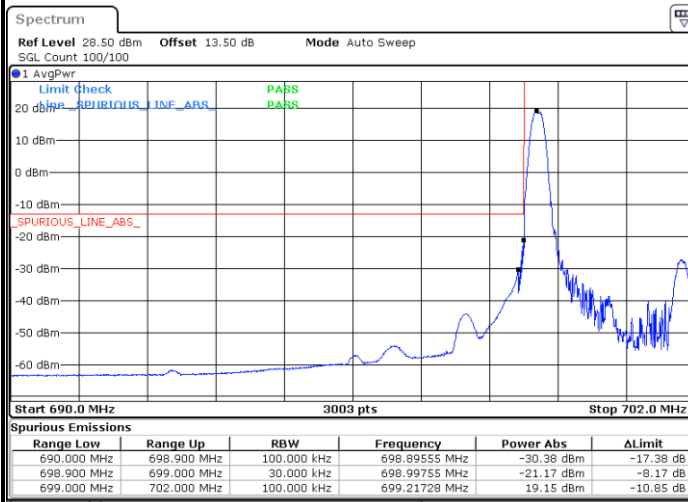
Highest Band Edge / Full RB



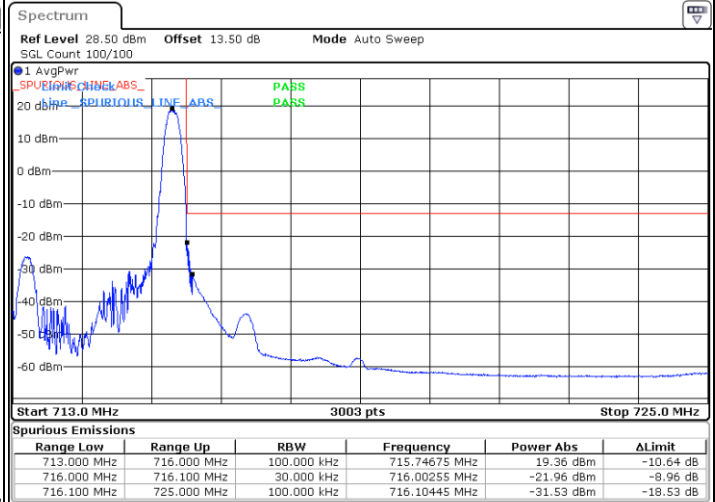


LTE Band 12 / 3MHz / 16QAM

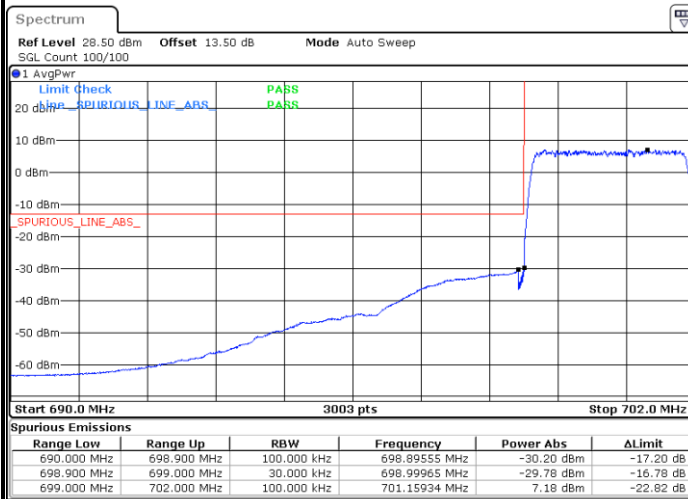
Lowest Band Edge / 1 RB



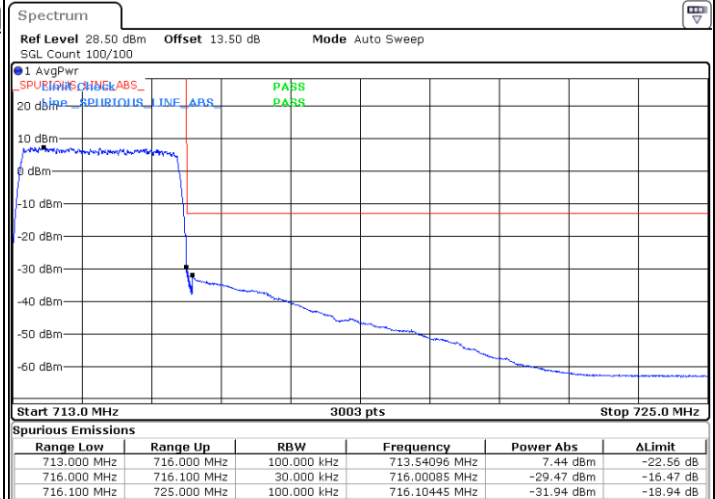
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



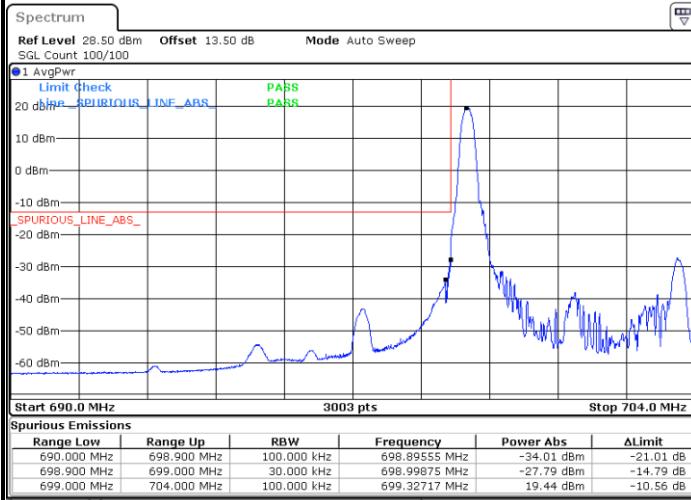
Highest Band Edge / Full RB



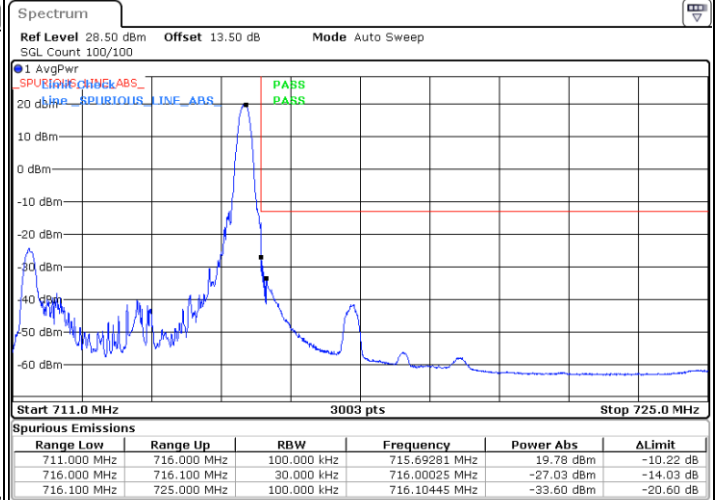


LTE Band 12 / 5MHz / QPSK

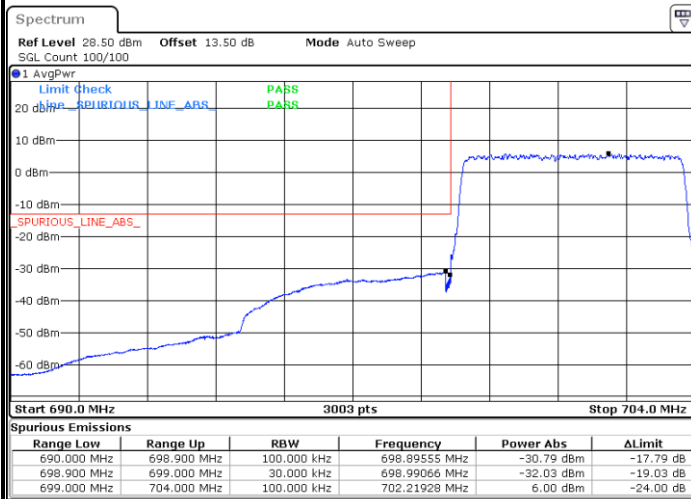
Lowest Band Edge / 1 RB



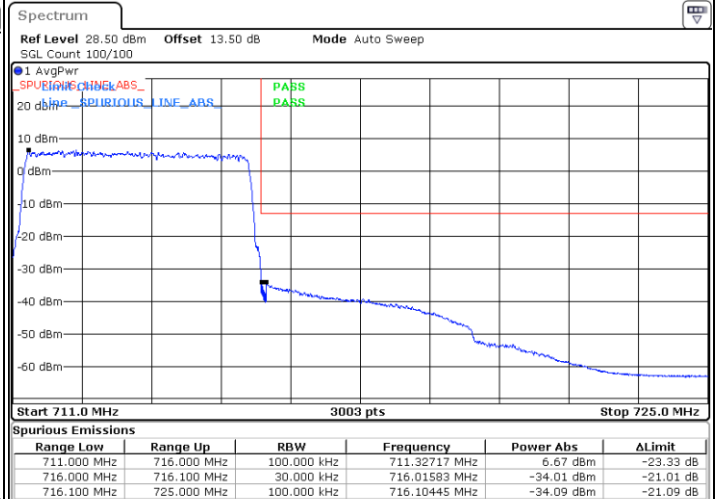
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



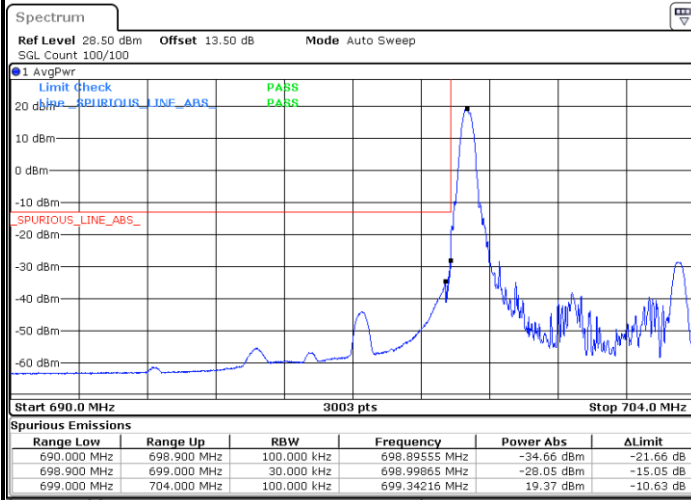
Highest Band Edge / Full RB



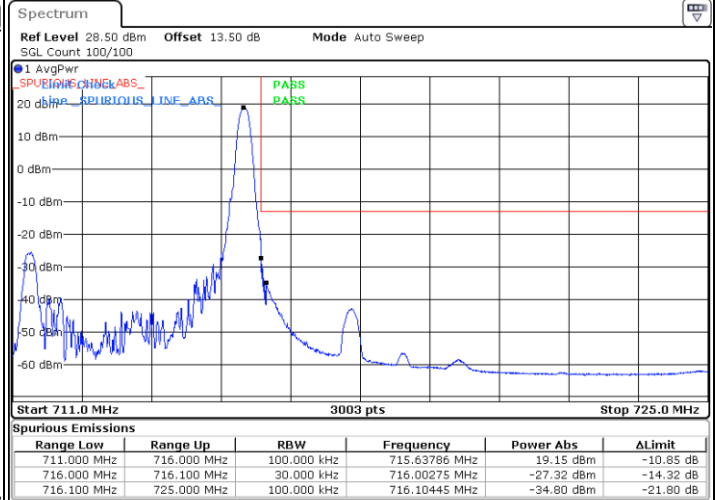


LTE Band 12 / 5MHz / 16QAM

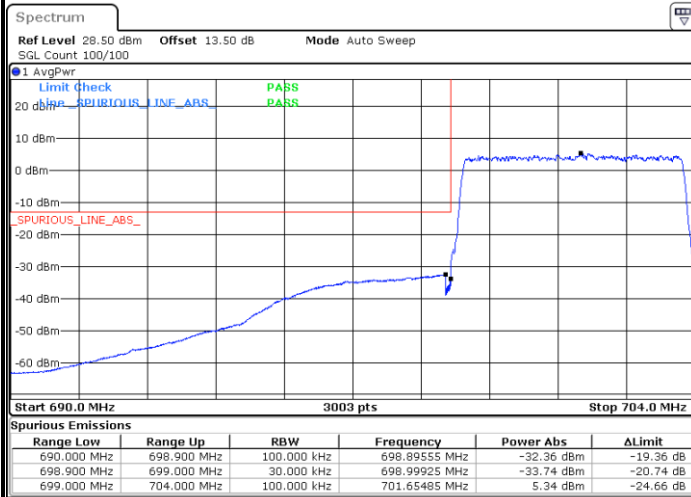
Lowest Band Edge / 1RB



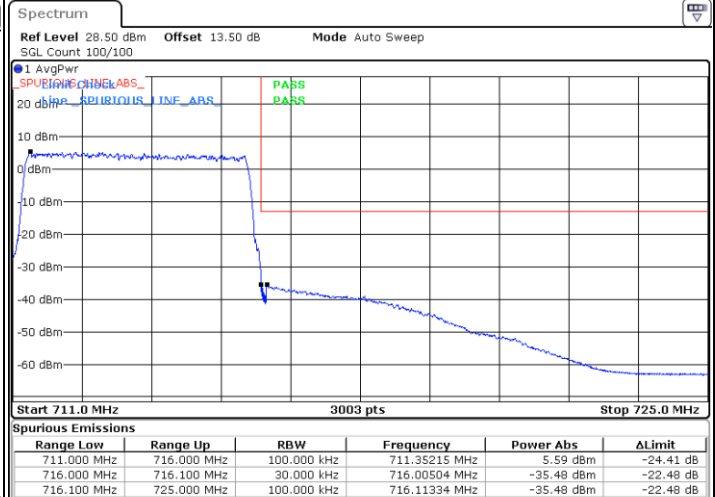
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



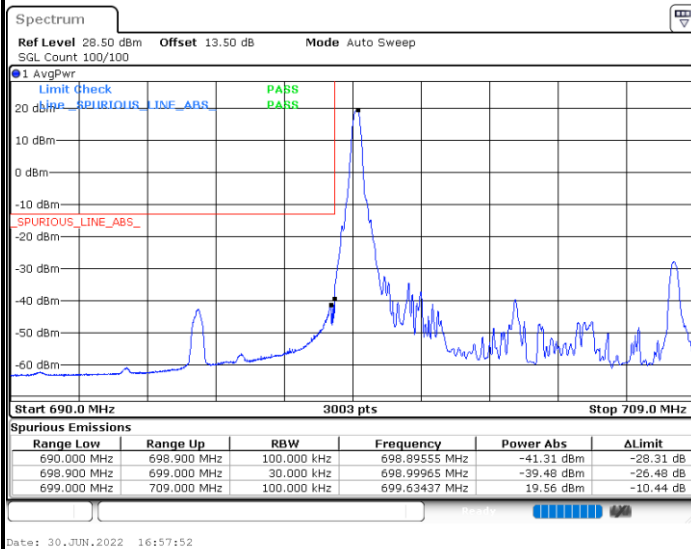
Highest Band Edge / Full RB



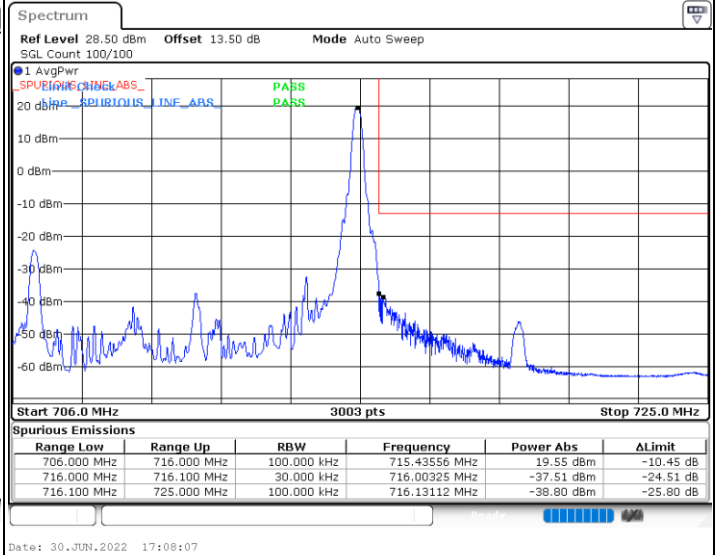


LTE Band 12 / 10MHz / QPSK

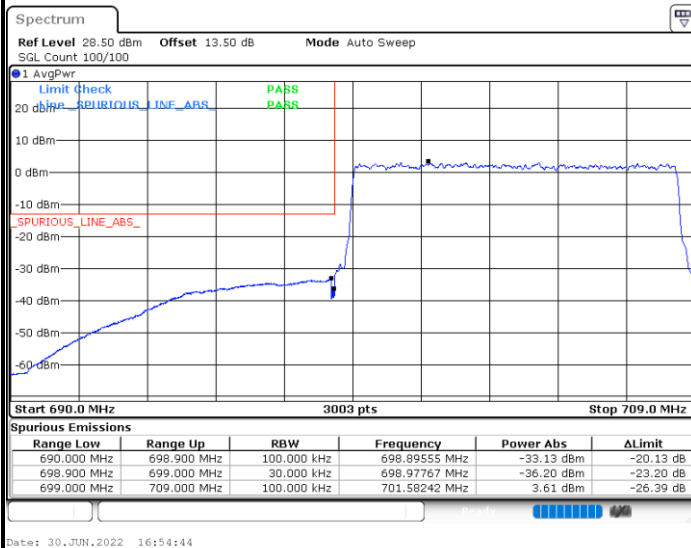
Lowest Band Edge / 1 RB



Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

