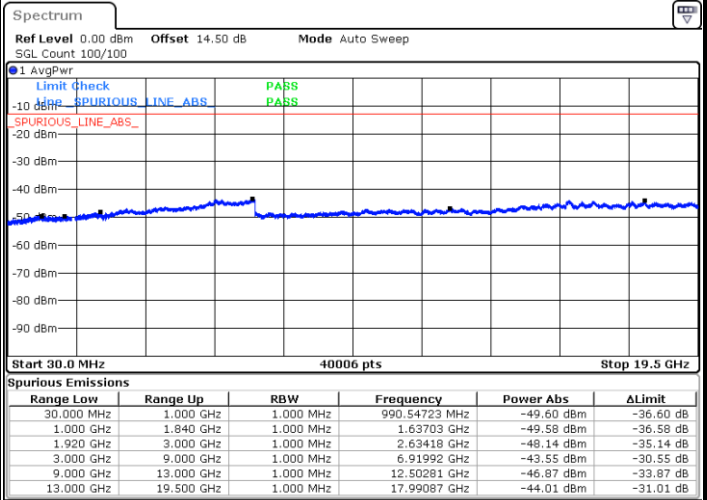
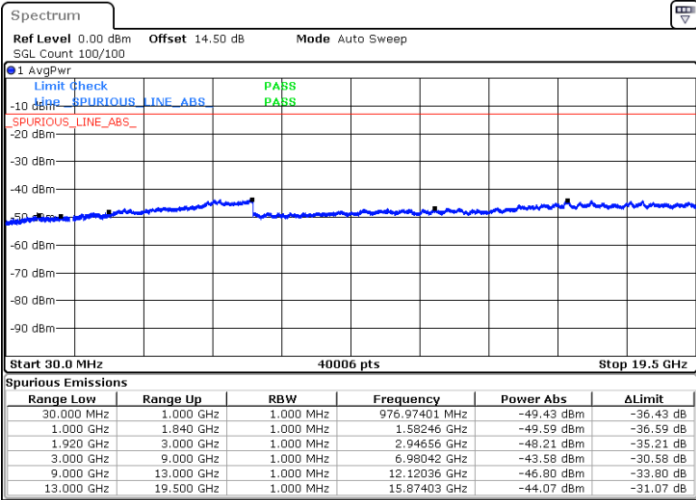




LTE Band 2 / 3MHz

Middle Channel / QPSK

Middle Channel / 16QAM

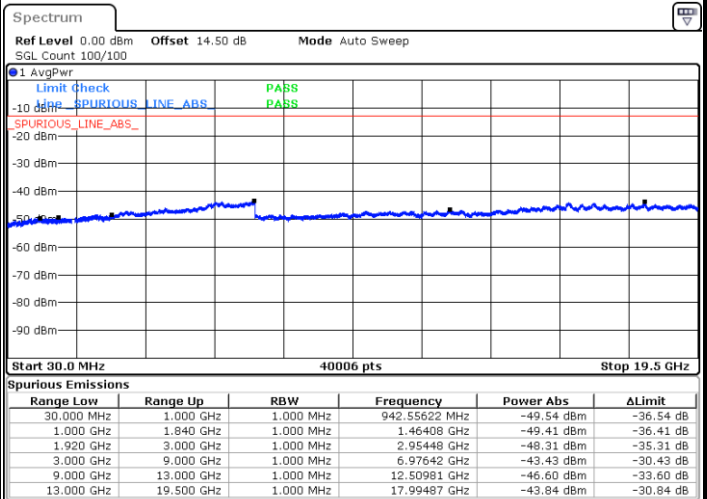
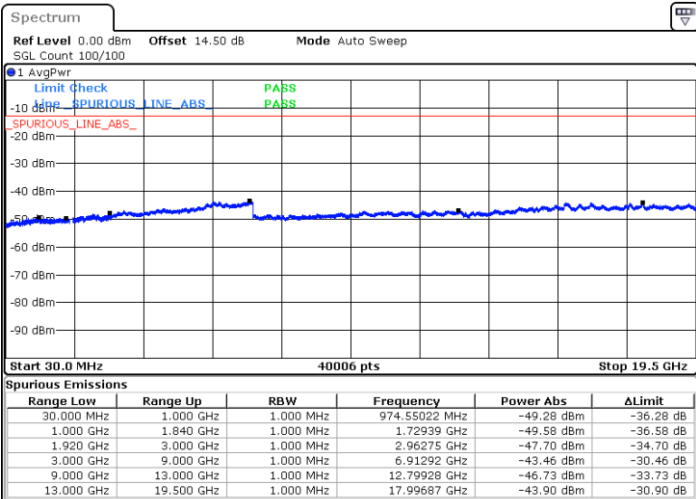


Date: 14.DEC.2021 10:12:02

Date: 14.DEC.2021 10:13:19

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 14.DEC.2021 10:21:28

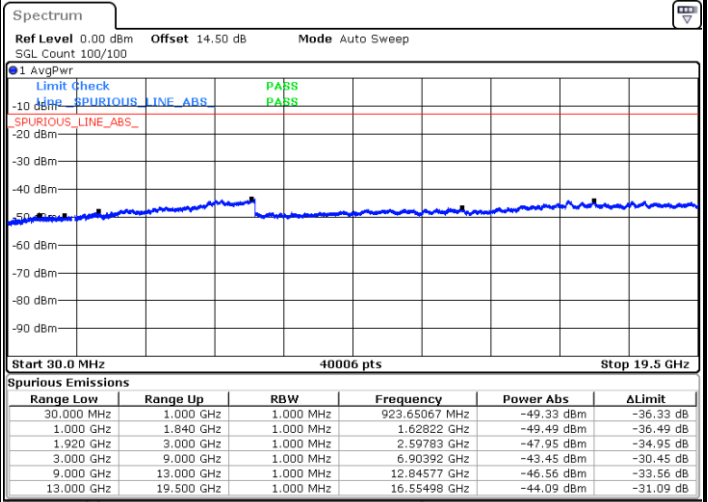
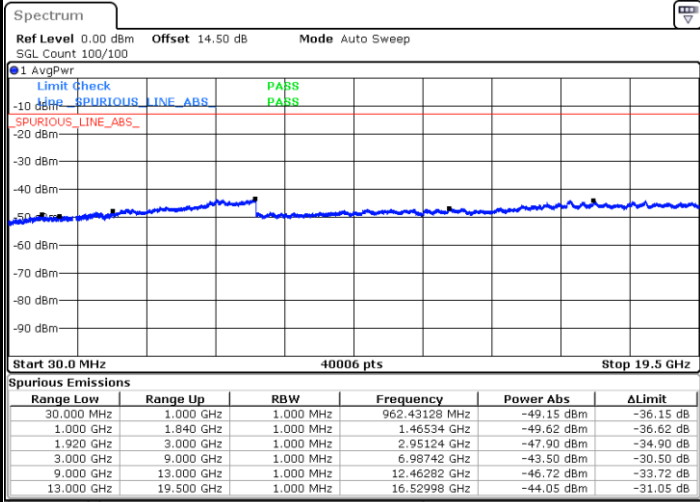
Date: 14.DEC.2021 10:22:46



LTE Band 2 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

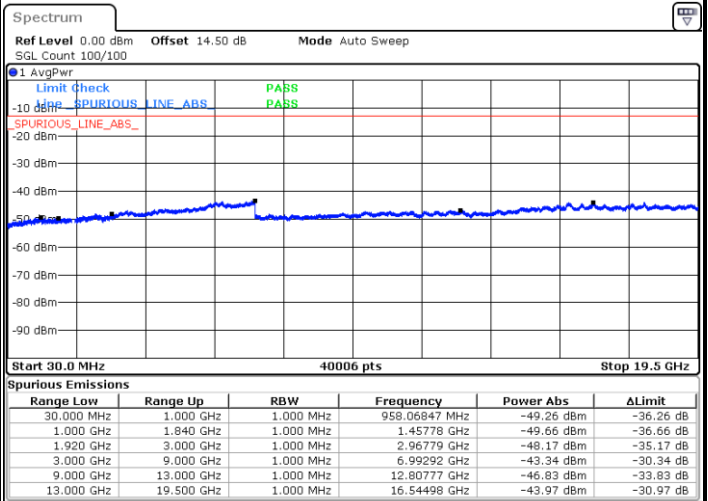
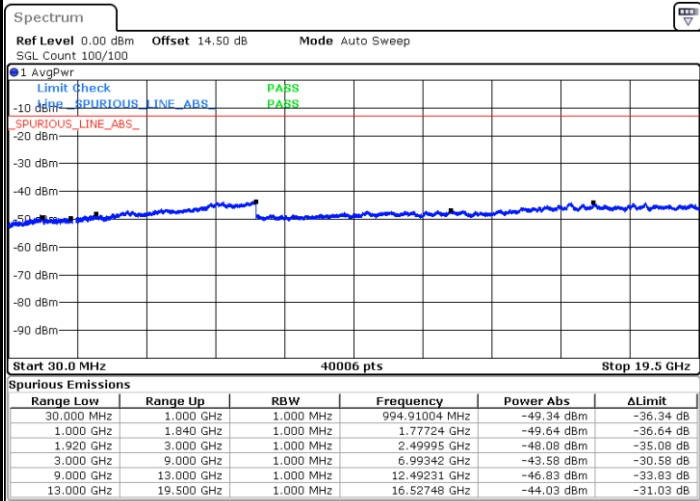


Date: 14.DEC.2021 10:30:55

Date: 14.DEC.2021 10:32:13

Middle Channel / QPSK

Middle Channel / 16QAM



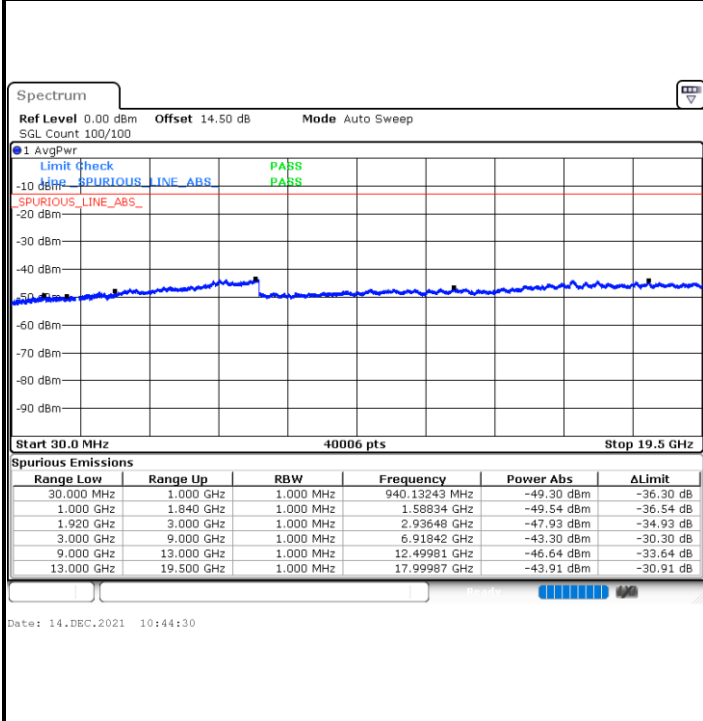
Date: 14.DEC.2021 10:35:06

Date: 14.DEC.2021 10:36:24

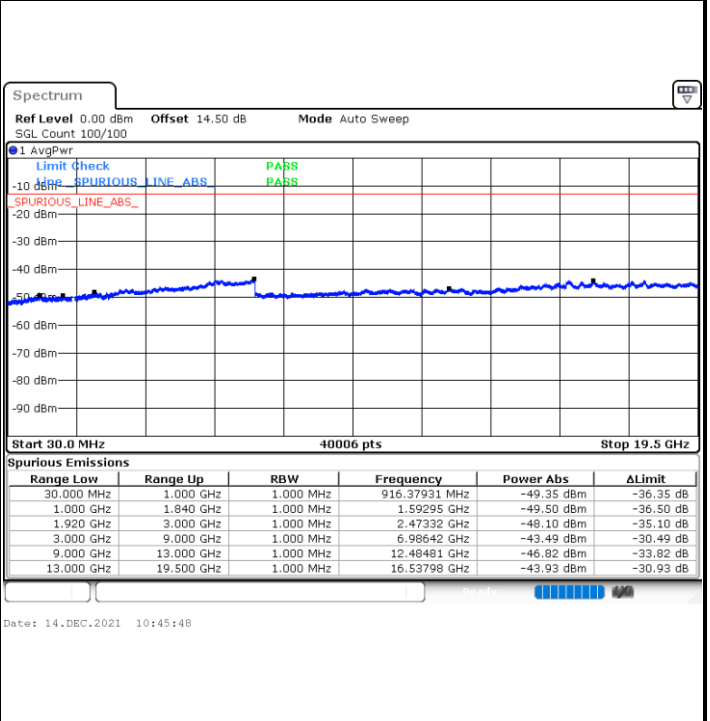


LTE Band 2 / 5MHz

Highest Channel / QPSK

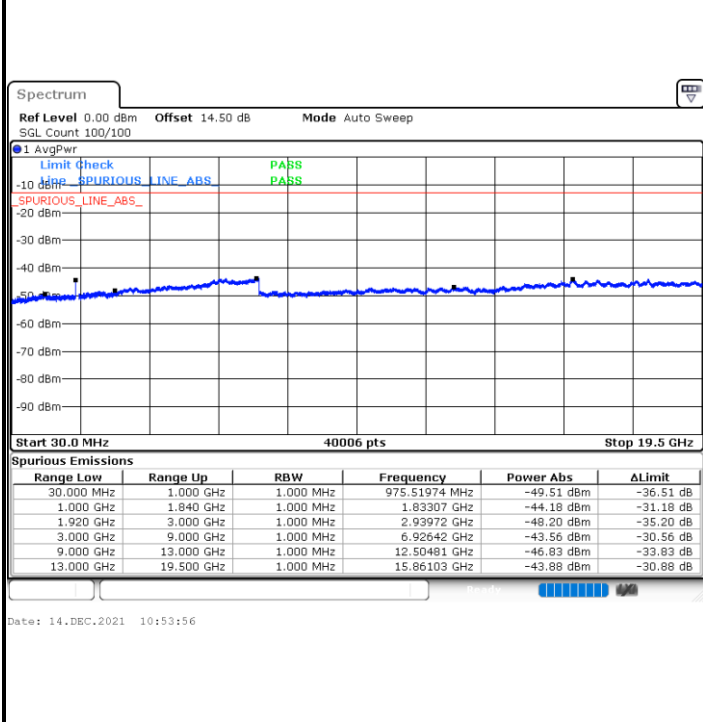


Highest Channel / 16QAM

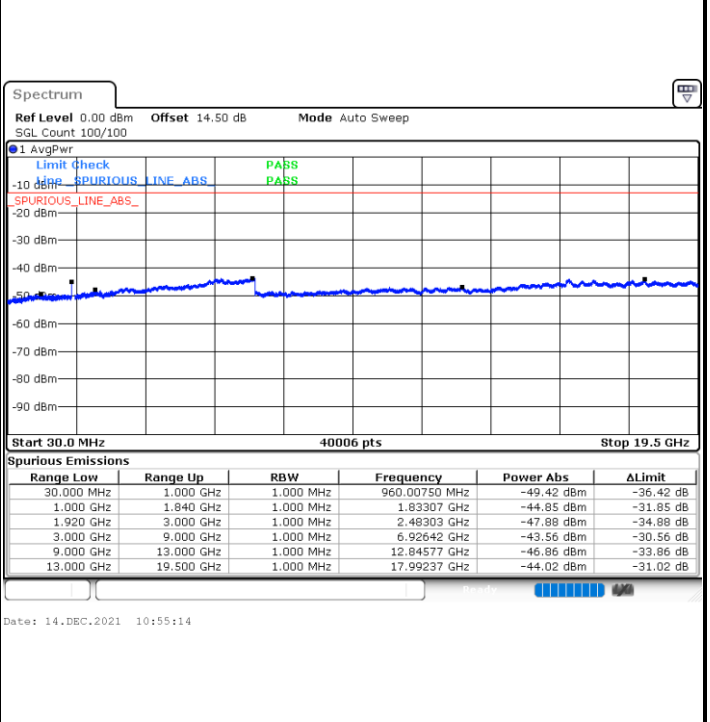


LTE Band 2 / 10MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

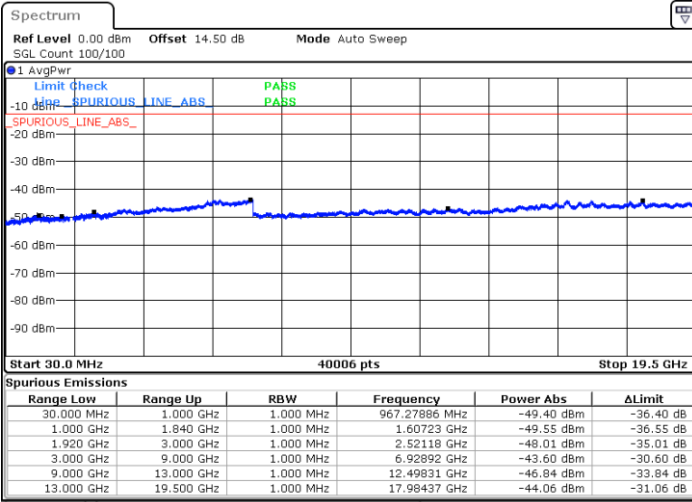




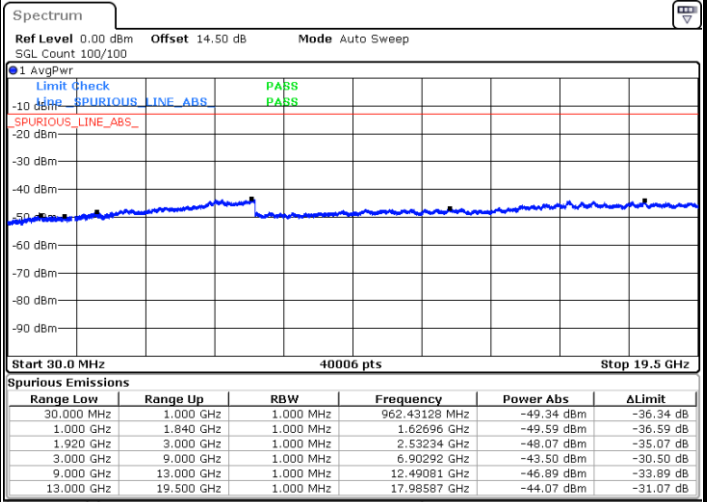
LTE Band 2 / 10MHz

Middle Channel / QPSK

Middle Channel / 16QAM



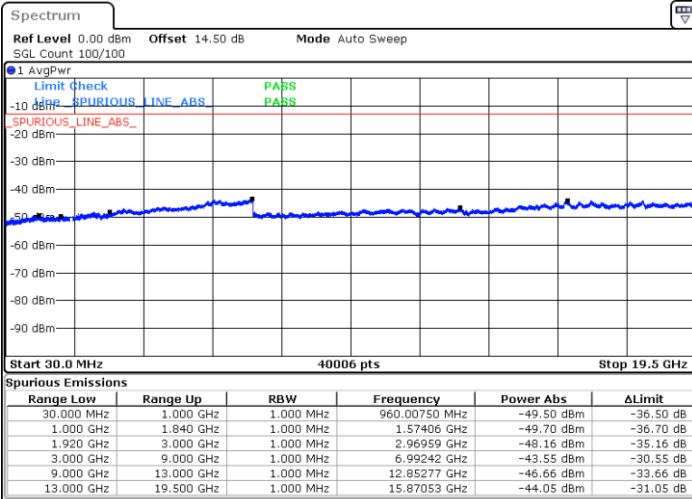
Date: 14.DEC.2021 10:58:07



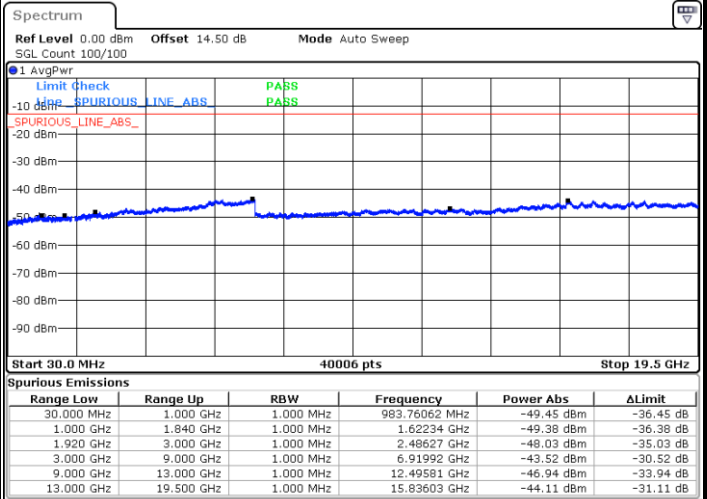
Date: 14.DEC.2021 10:59:24

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 14.DEC.2021 11:07:31



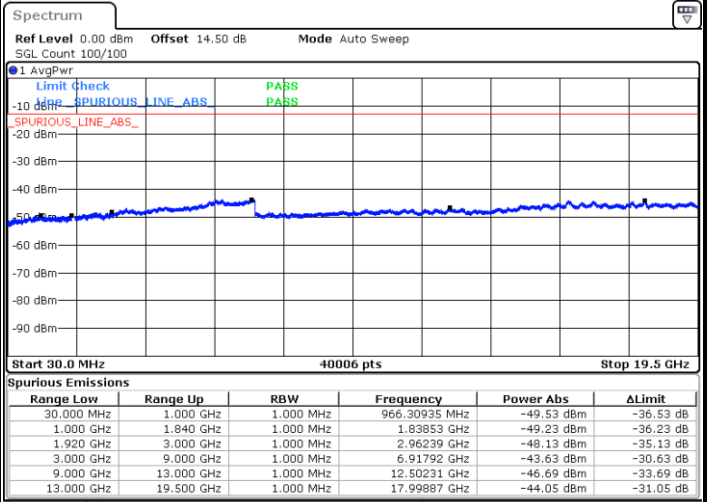
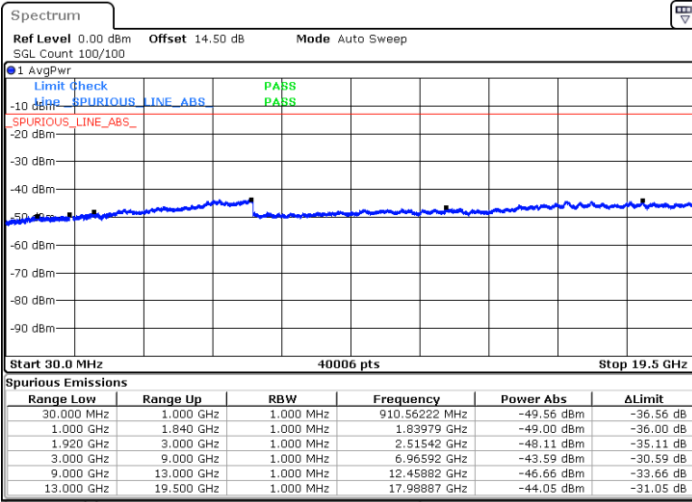
Date: 14.DEC.2021 11:08:49



LTE Band 2 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM

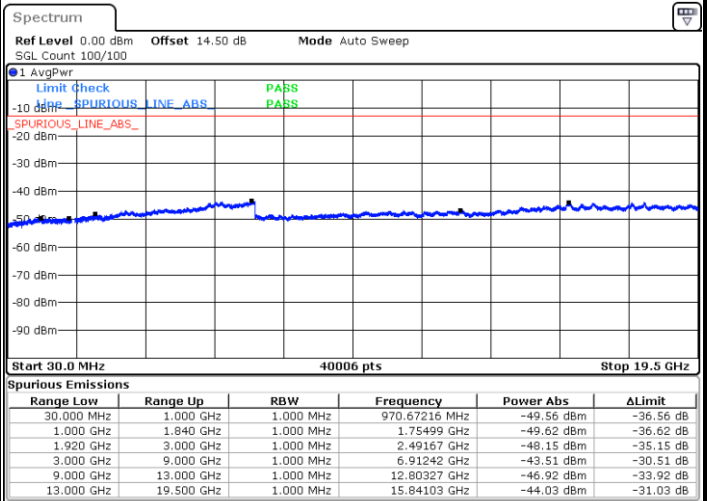
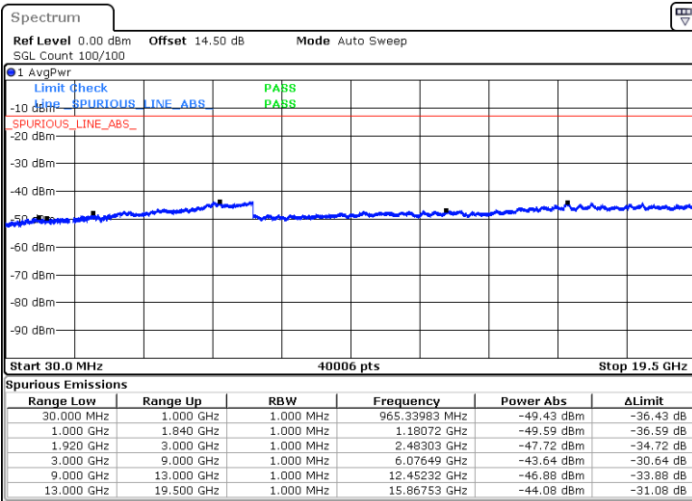


Date: 14.DEC.2021 11:16:58

Date: 14.DEC.2021 11:18:16

Middle Channel / QPSK

Middle Channel / 16QAM



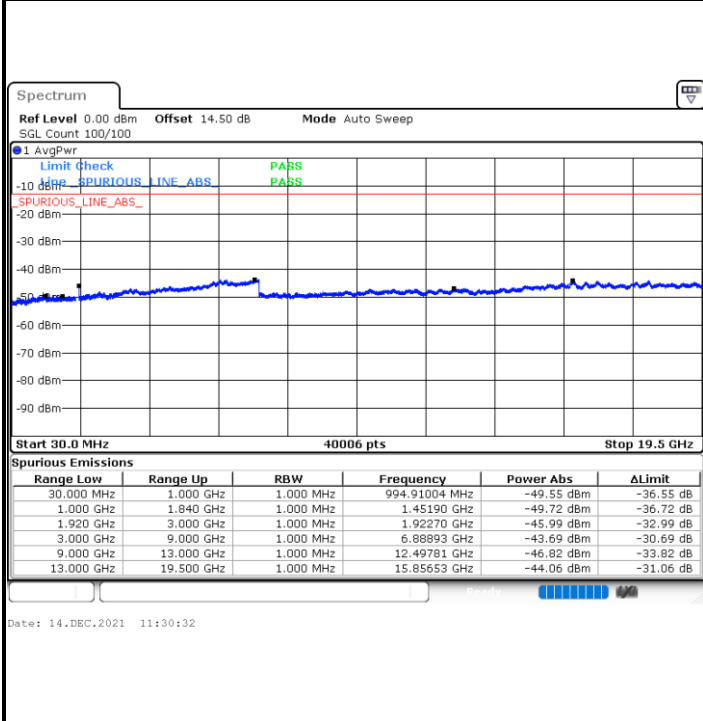
Date: 14.DEC.2021 11:21:09

Date: 14.DEC.2021 11:22:27

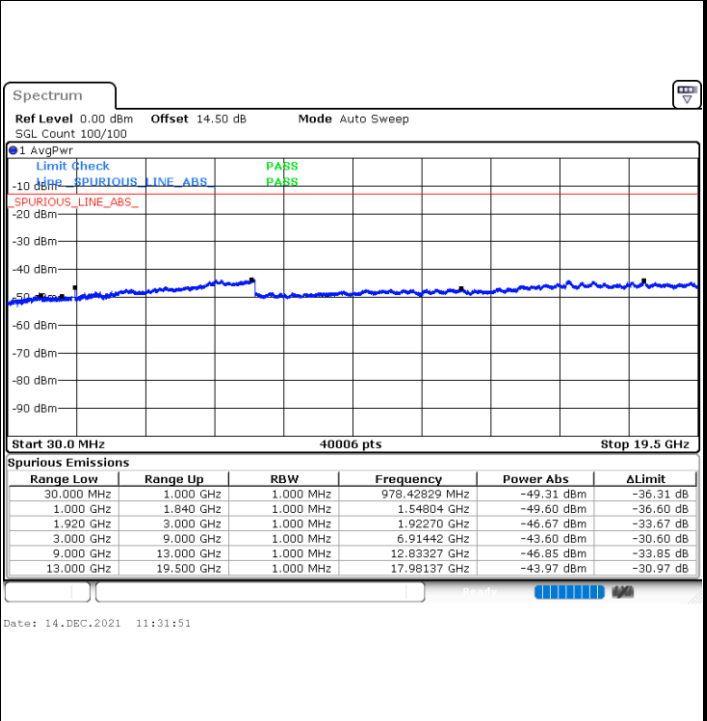


LTE Band 2 / 15MHz

Highest Channel / QPSK

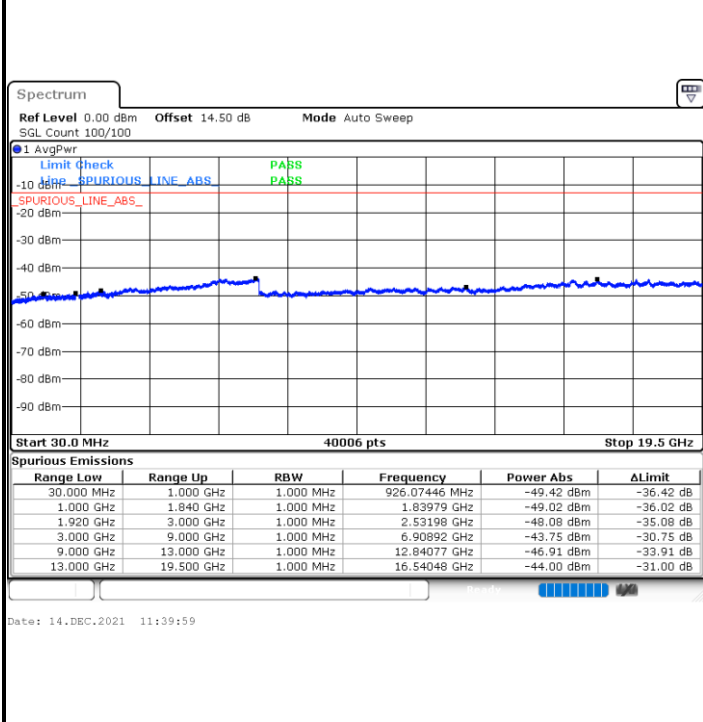


Highest Channel / 16QAM

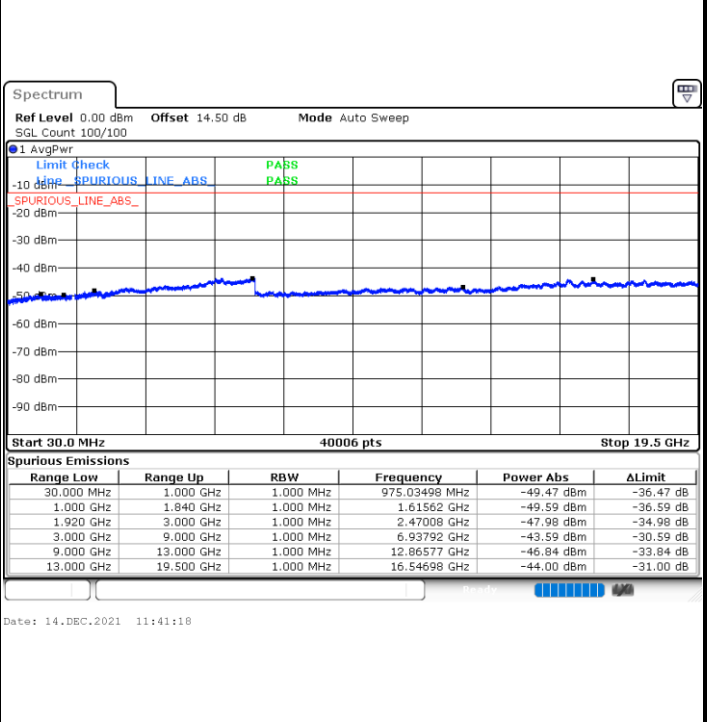


LTE Band 2 / 20MHz

Lowest Channel / QPSK



Lowest Channel / 16QAM

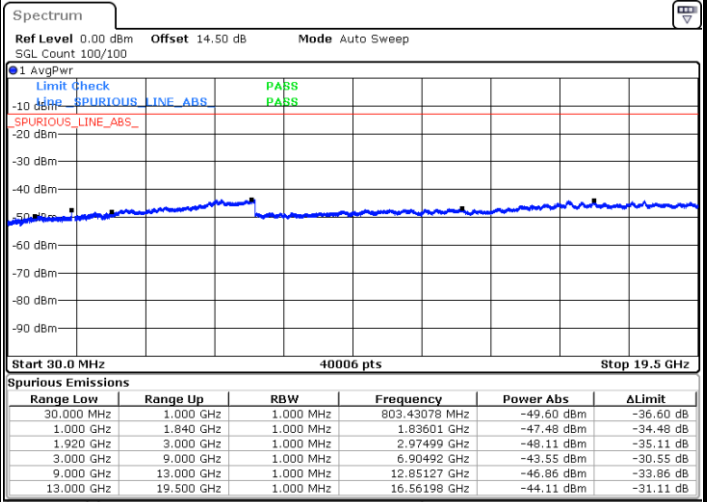
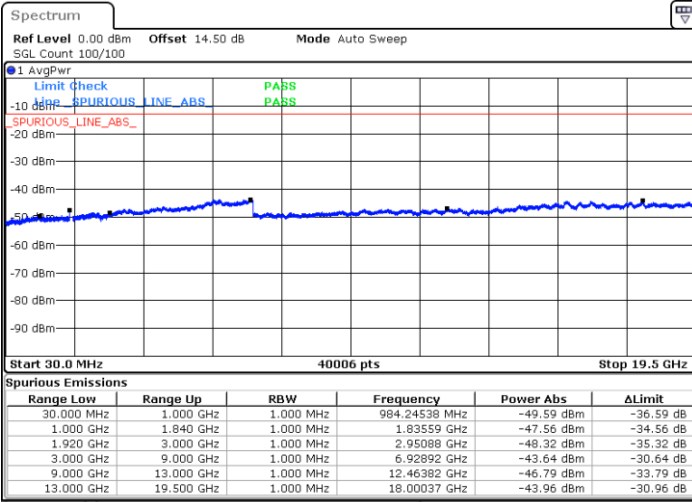




LTE Band 2 / 20MHz

Middle Channel / QPSK

Middle Channel / 16QAM

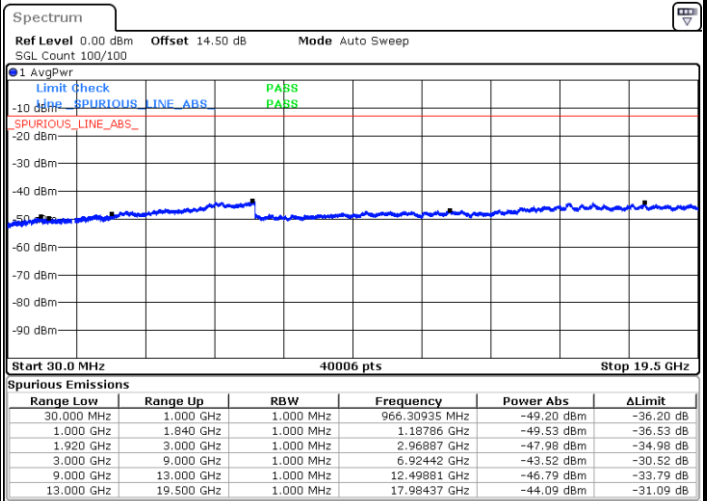
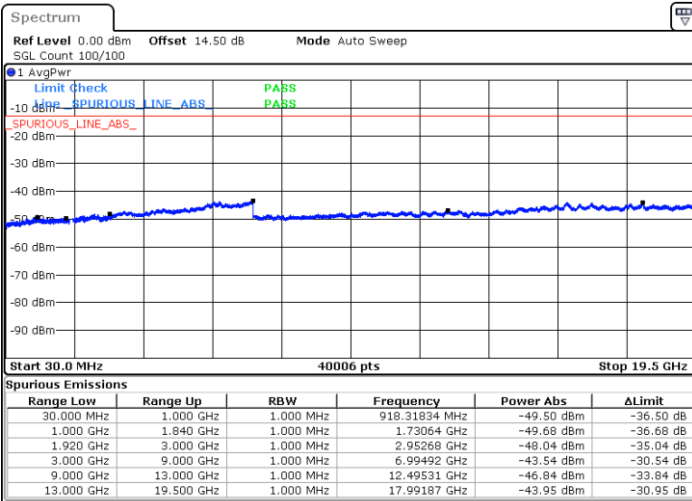


Date: 14.DEC.2021 11:44:11

Date: 14.DEC.2021 11:45:28

Highest Channel / QPSK

Highest Channel / 16QAM



Date: 14.DEC.2021 11:53:36

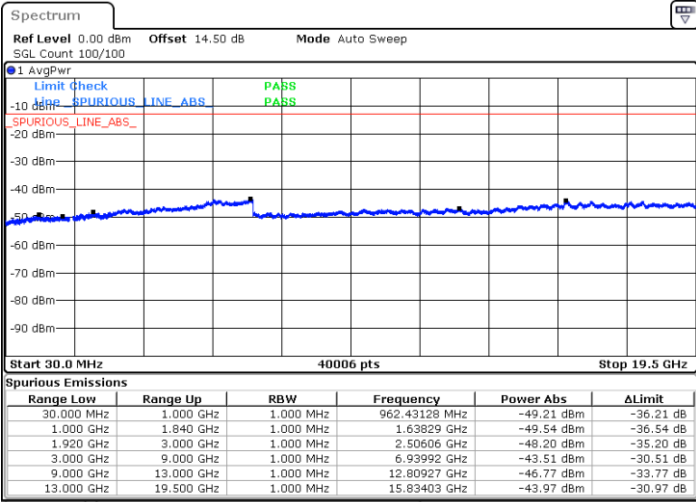
Date: 14.DEC.2021 11:54:54



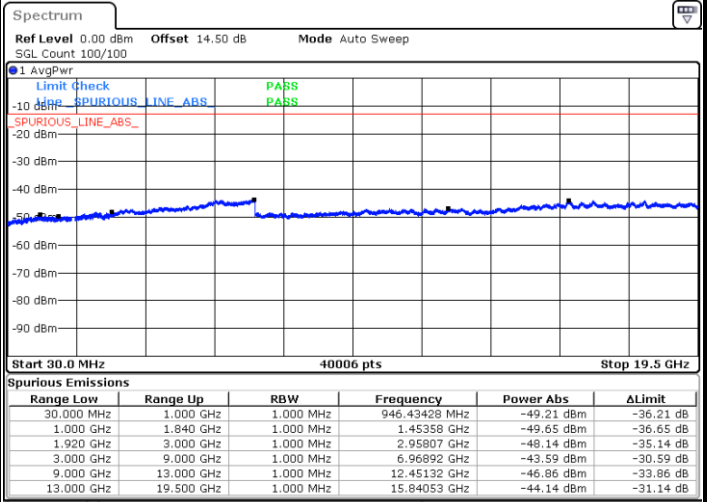
LTE Band 2 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

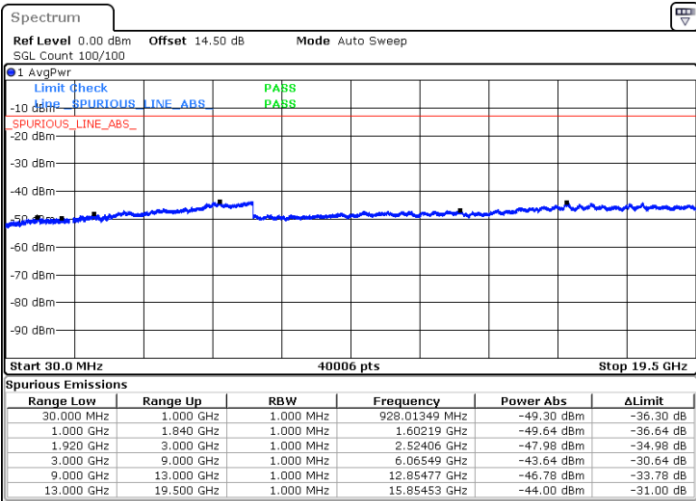


Date: 14.DEC.2021 13:38:27



Date: 14.DEC.2021 13:40:24

Highest Channel / 64QAM



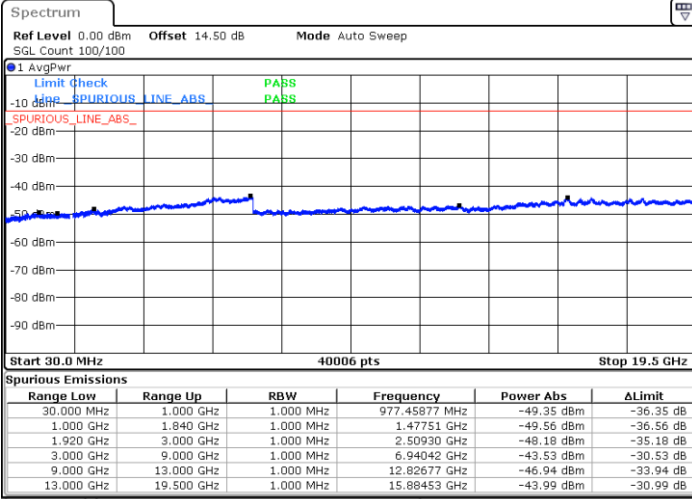
Date: 14.DEC.2021 13:44:58



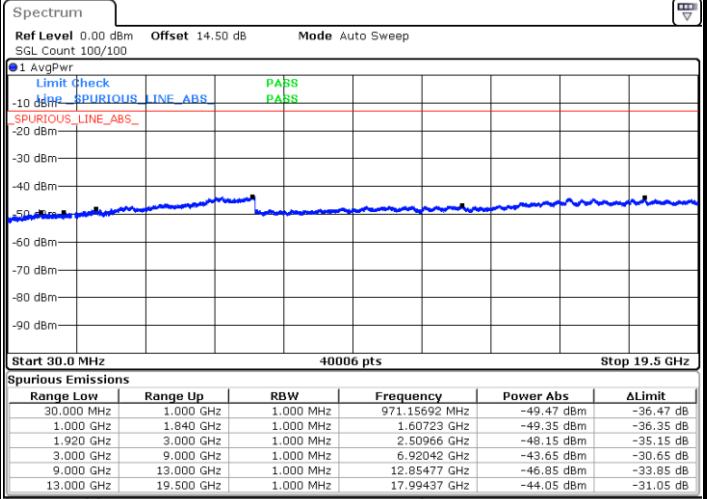
LTE Band 2 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

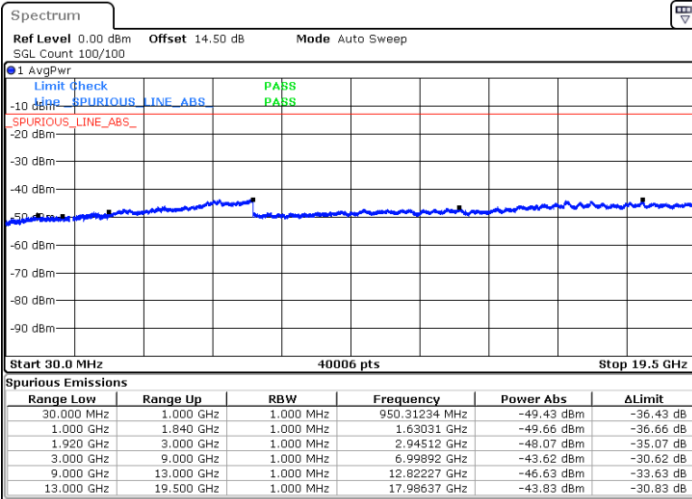


Date: 14.DEC.2021 11:59:32



Date: 14.DEC.2021 12:01:29

Highest Channel / 64QAM

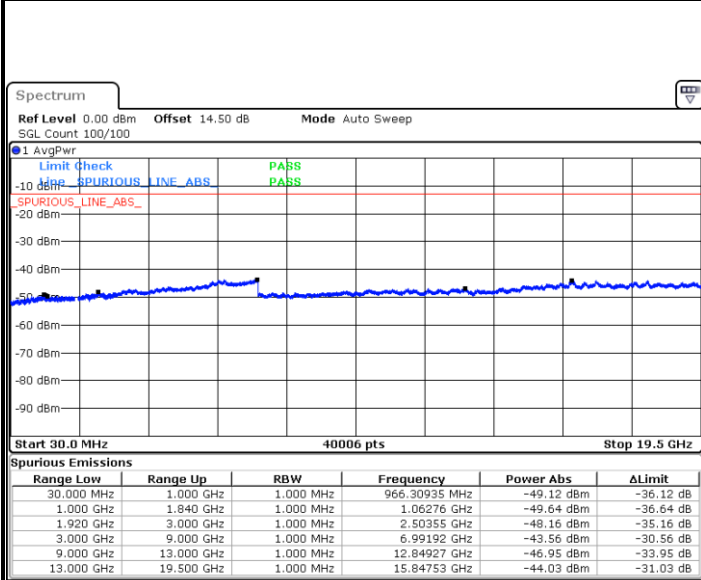


Date: 14.DEC.2021 12:06:02



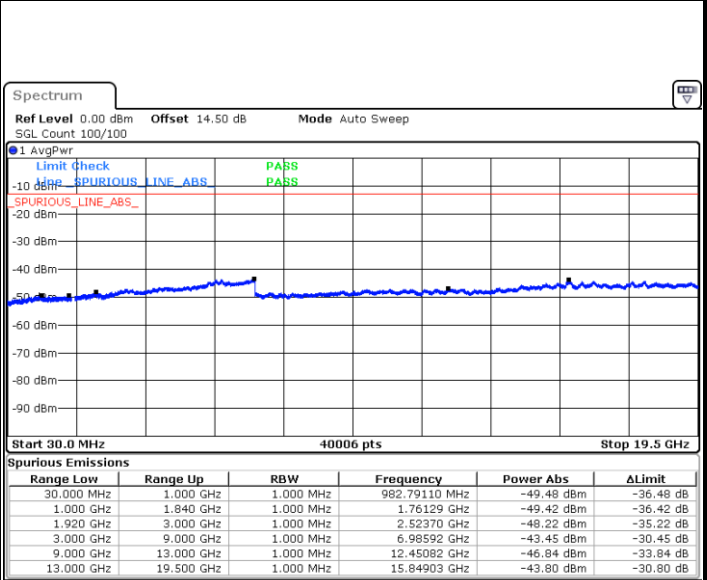
LTE Band 2 / 5MHz

Lowest Channel / 64QAM



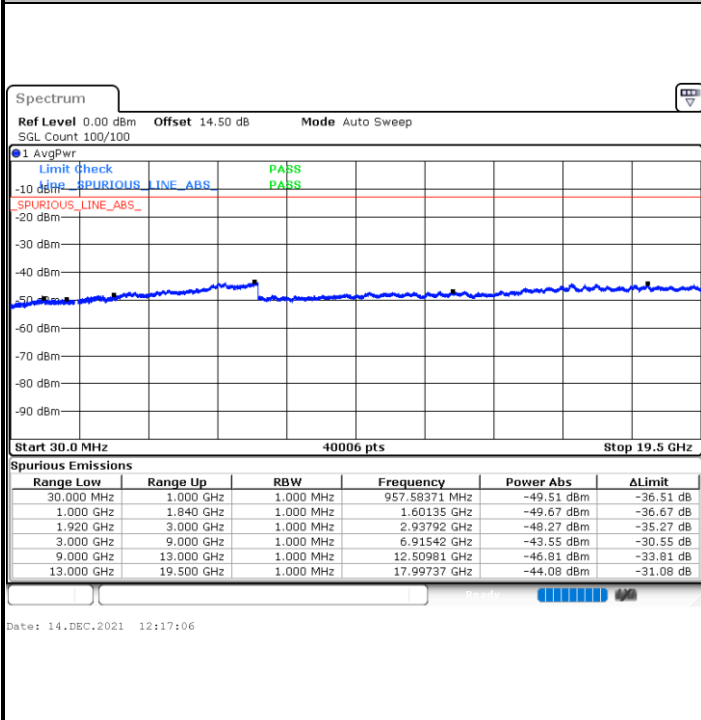
Date: 14.DEC.2021 12:10:37

Middle Channel / 64QAM



Date: 14.DEC.2021 12:12:34

Highest Channel / 64QAM



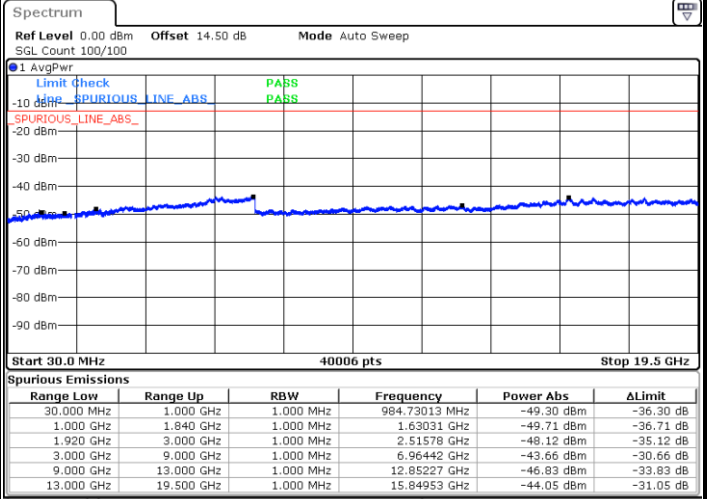
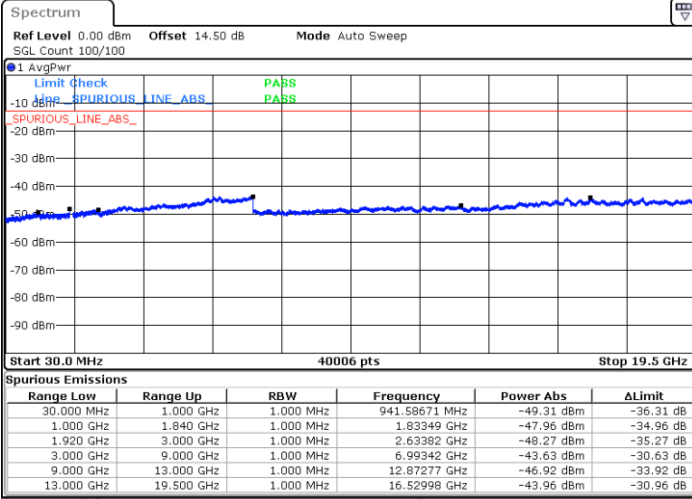
Date: 14.DEC.2021 12:17:06



LTE Band 2 / 10MHz

Lowest Channel / 64QAM

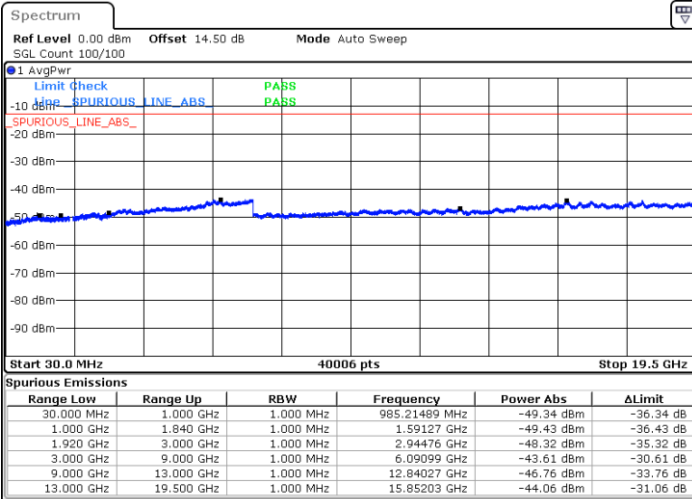
Middle Channel / 64QAM



Date: 14.DEC.2021 12:21:40

Date: 14.DEC.2021 12:23:37

Highest Channel / 64QAM



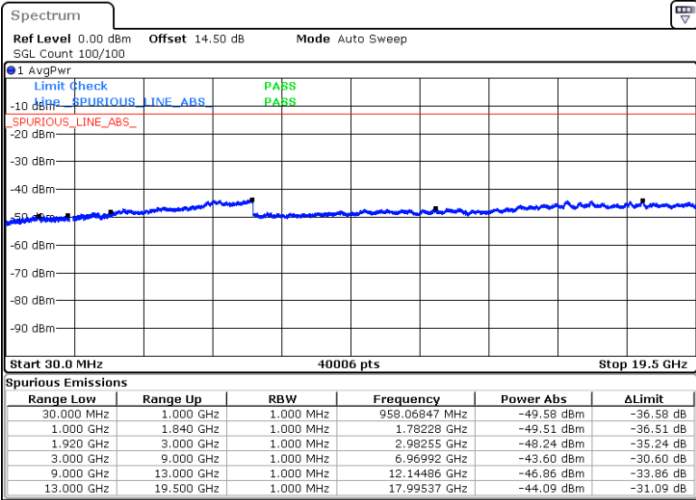
Date: 14.DEC.2021 12:28:09



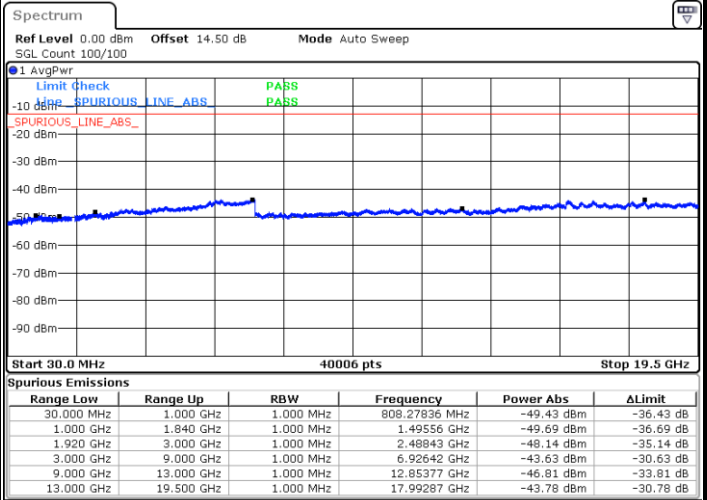
LTE Band 2 / 15MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

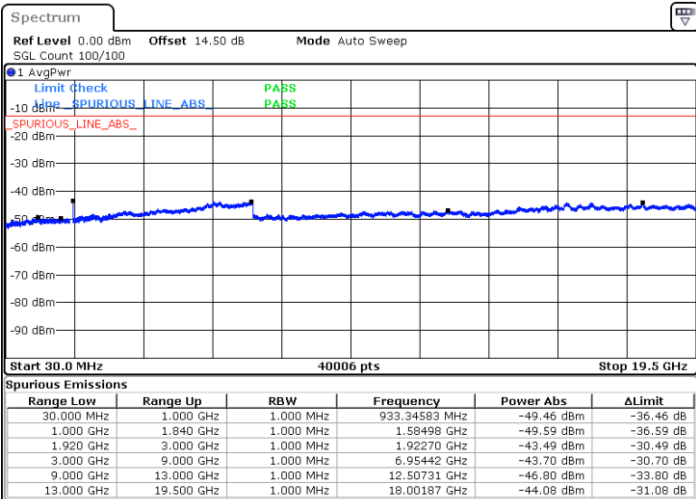


Date: 14.DEC.2021 12:32:42



Date: 14.DEC.2021 12:34:40

Highest Channel / 64QAM



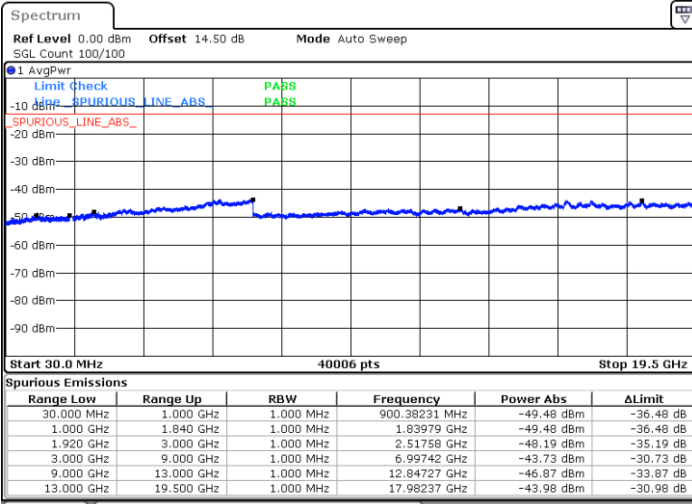
Date: 14.DEC.2021 12:39:12



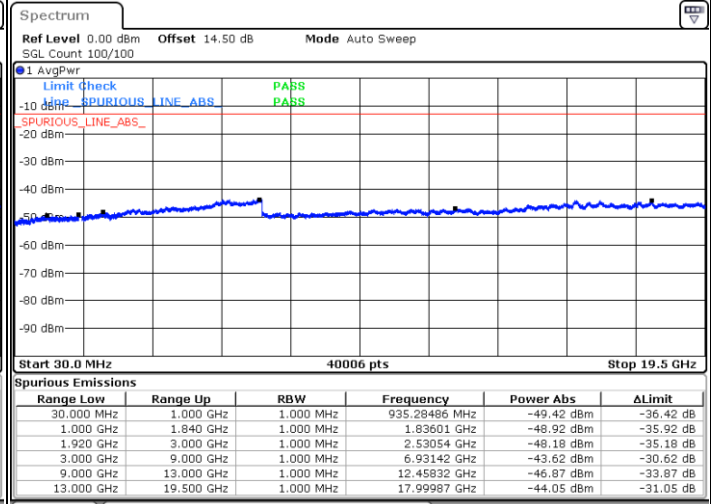
LTE Band 2 / 20MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

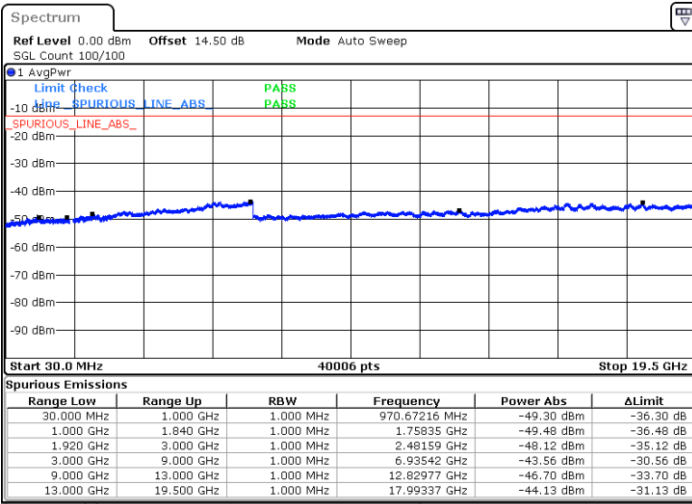


Date: 14.DEC.2021 12:43:45



Date: 14.DEC.2021 12:45:42

Highest Channel / 64QAM



Date: 14.DEC.2021 12:50:15



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	0.0005	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0010	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0003	
-20	Normal Voltage	0.0001	
-30	Normal Voltage	0.0002	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 4

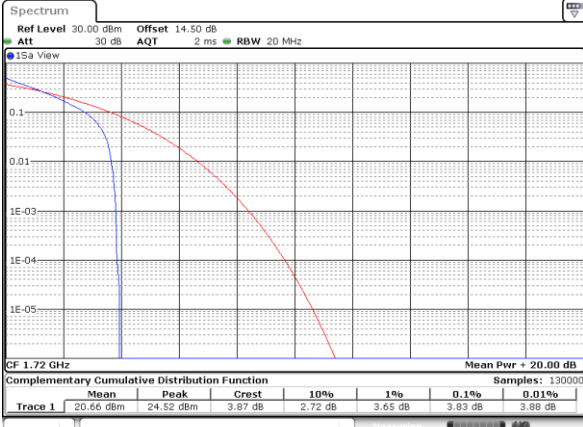
Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	3.83	5.19	4.87	6.35	PASS
Middle CH	4.75	5.13	5.48	6.14	
Highest CH	4.72	5.19	5.36	6.09	
Mode	LTE Band 4 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	5.51	6.84	-	-	PASS
Middle CH	6.81	6.35	-	-	
Highest CH	6.64	6.55	-	-	



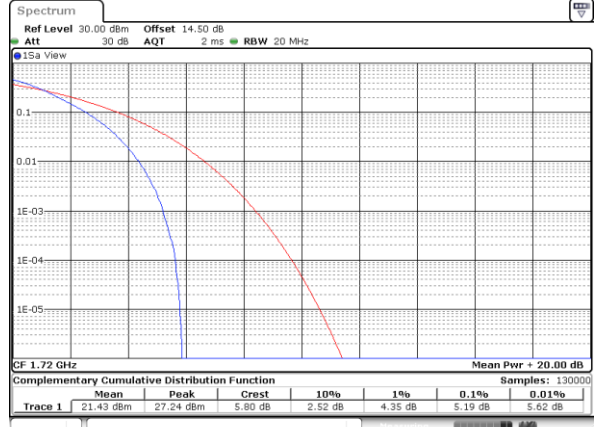
LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



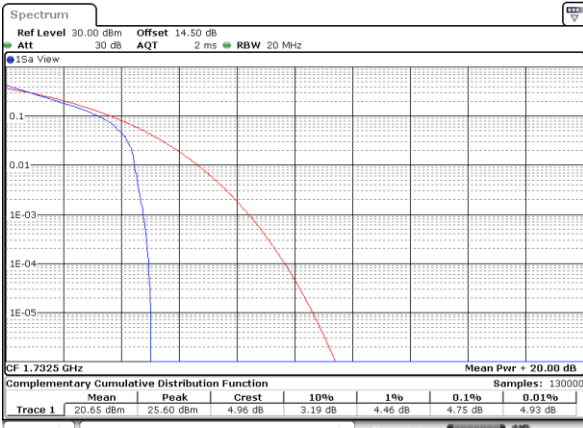
Date: 14.DEC.2021 20:18:27

Lowest Channel / Full RB



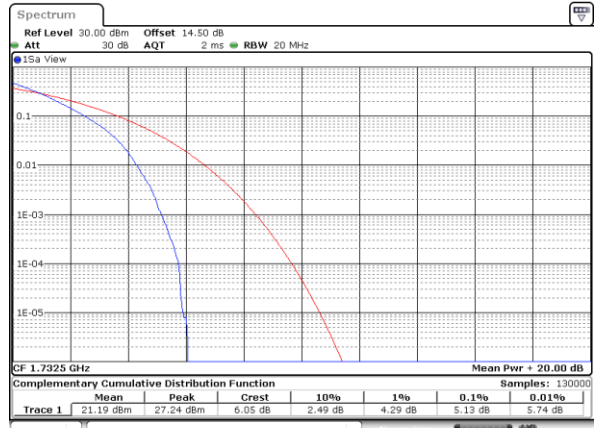
Date: 14.DEC.2021 20:18:54

Middle Channel / 1RB



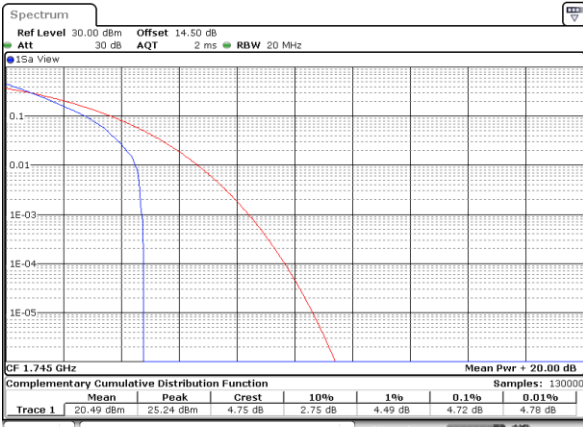
Date: 14.DEC.2021 20:19:20

Middle Channel / Full RB



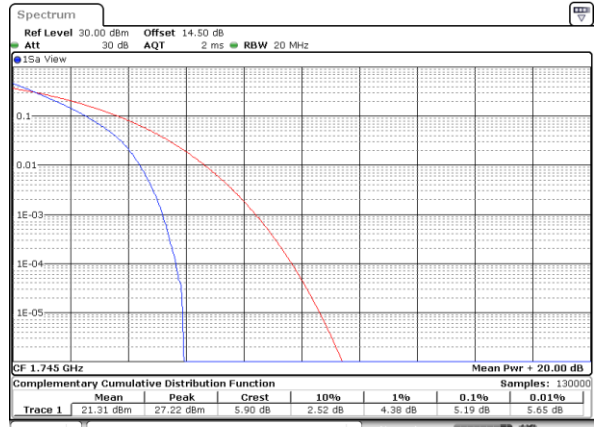
Date: 14.DEC.2021 20:19:46

Highest Channel / 1RB



Date: 14.DEC.2021 20:20:12

Highest Channel / Full RB

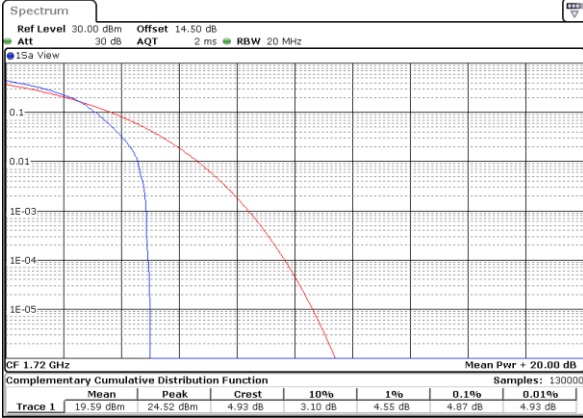


Date: 14.DEC.2021 20:20:39



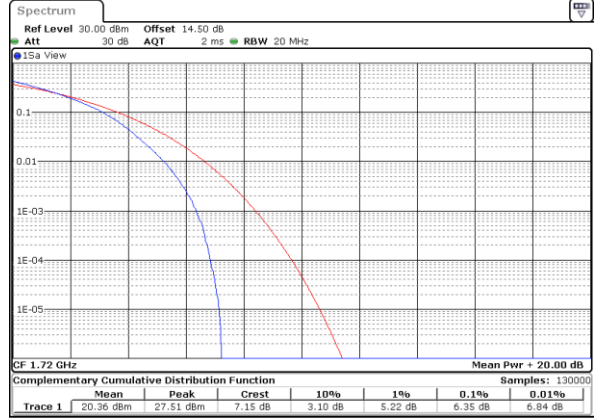
LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



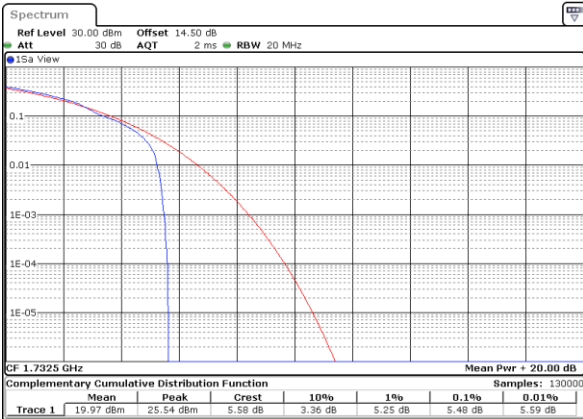
Date: 14. DEC. 2021 20:15:49

Lowest Channel / Full RB



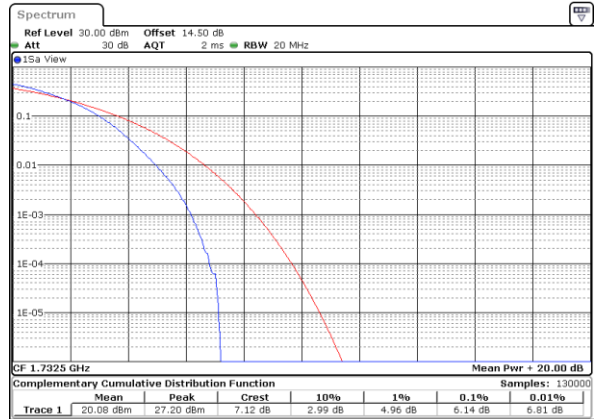
Date: 14. DEC. 2021 20:16:15

Middle Channel / 1RB



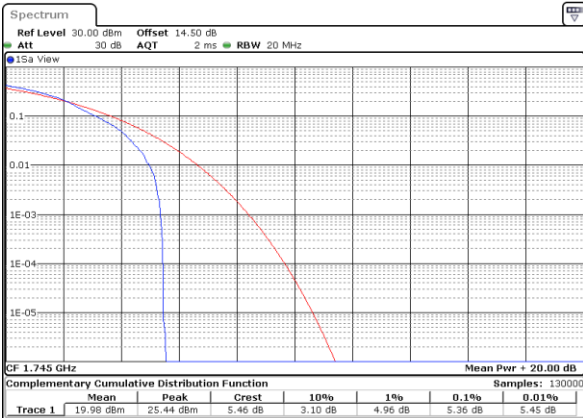
Date: 14. DEC. 2021 20:16:42

Middle Channel / Full RB



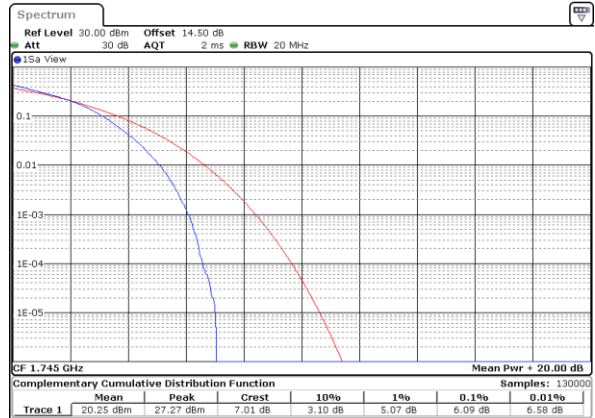
Date: 14. DEC. 2021 20:17:08

Highest Channel / 1RB



Date: 14. DEC. 2021 20:17:34

Highest Channel / Full RB

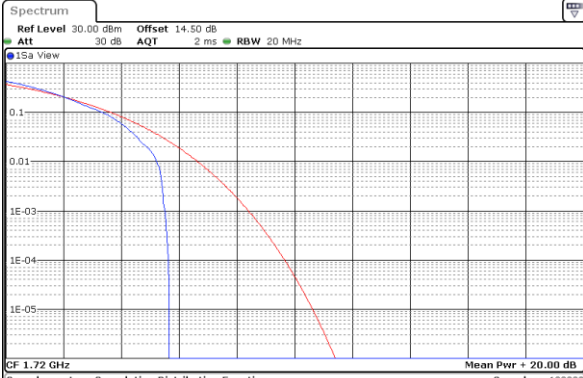


Date: 14. DEC. 2021 20:17:01



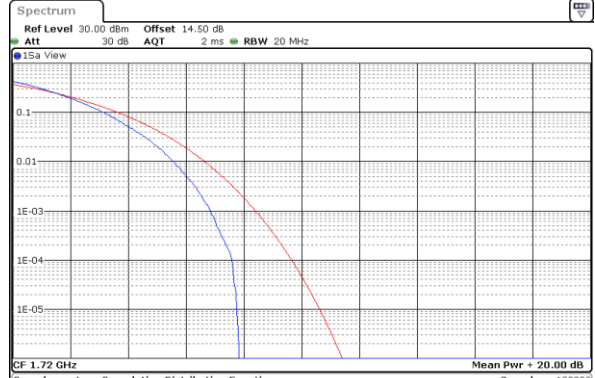
LTE Band 4 / 20MHz / 64QAM

Lowest Channel / 1RB



Date: 14.DEC.2021 20:21:06

Lowest Channel / Full RB



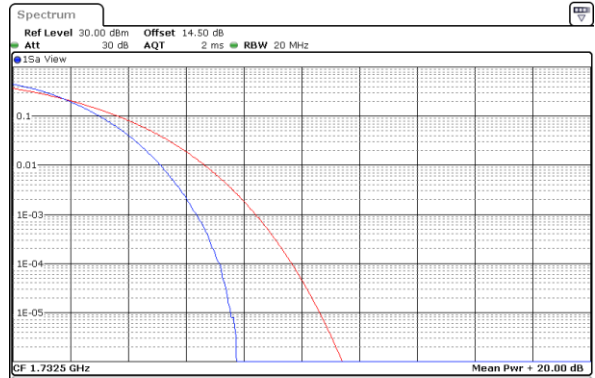
Date: 14.DEC.2021 20:21:33

Middle Channel / 1RB



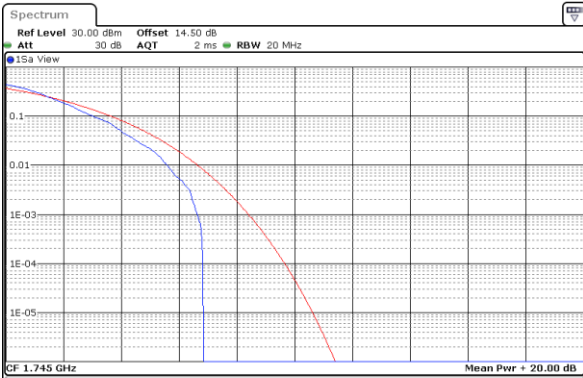
Date: 14.DEC.2021 20:21:59

Middle Channel / Full RB



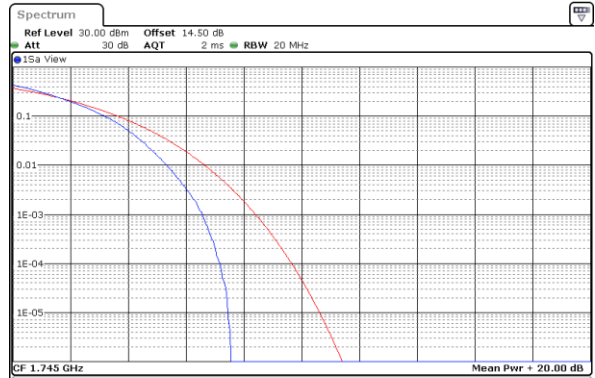
Date: 14.DEC.2021 20:22:25

Highest Channel / 1RB



Date: 14.DEC.2021 20:22:51

Highest Channel / Full RB



Date: 14.DEC.2021 20:23:18



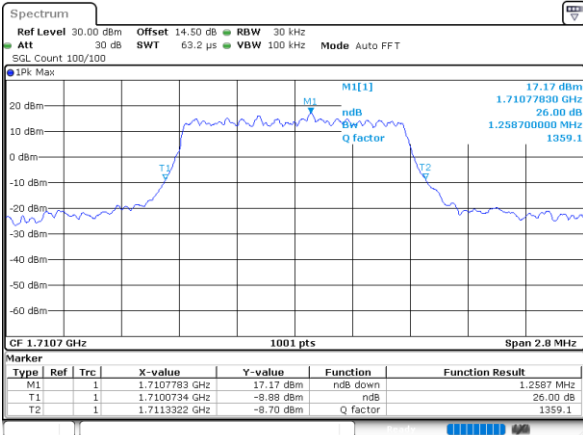
26dB Bandwidth

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
Lowest CH	1.26	1.27	2.97	2.98	4.88	4.88	9.77	9.85	14.27	14.18	18.98	18.94
Middle CH	1.28	1.24	2.98	3.00	4.88	4.89	9.67	9.93	14.21	14.39	18.74	18.74
Highest CH	1.28	1.25	2.99	2.97	4.84	4.84	9.75	9.89	14.45	14.30	19.10	19.02
Mode	LTE Band 4 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	1.26	-	2.96	-	4.87	-	9.79	-	14.36	-	18.86	-
Middle CH	1.30	-	2.96	-	4.89	-	9.73	-	14.39	-	18.74	-
Highest CH	1.28	-	2.94	-	4.94	-	9.87	-	14.39	-	19.02	-



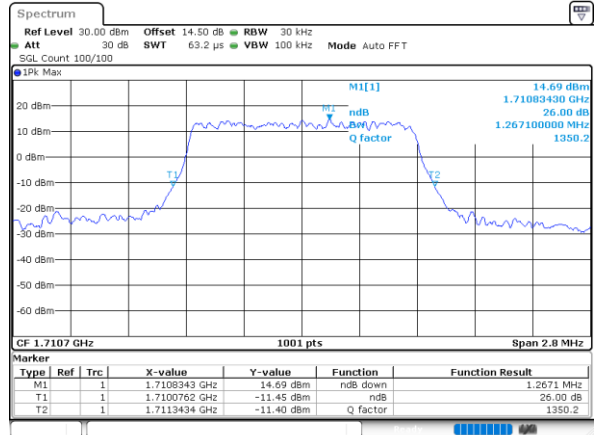
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



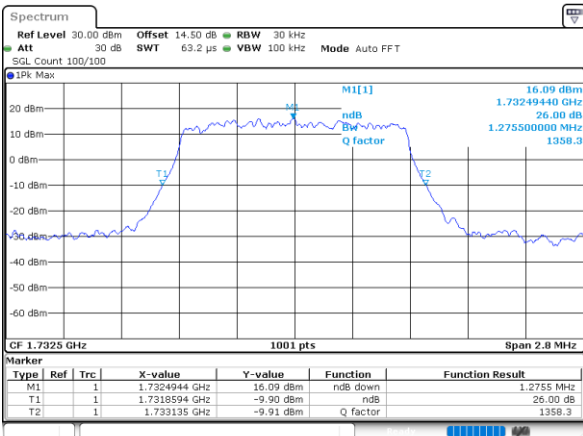
Date: 14. DEC. 2021 19:53:35

Lowest Channel / 1.4MHz / 16QAM



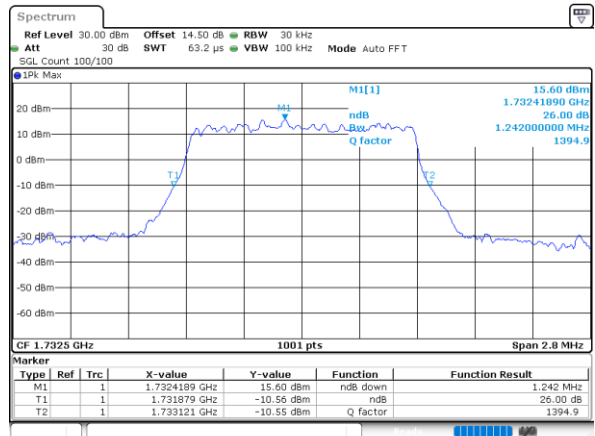
Date: 14. DEC. 2021 19:53:59

Middle Channel / 1.4MHz / QPSK



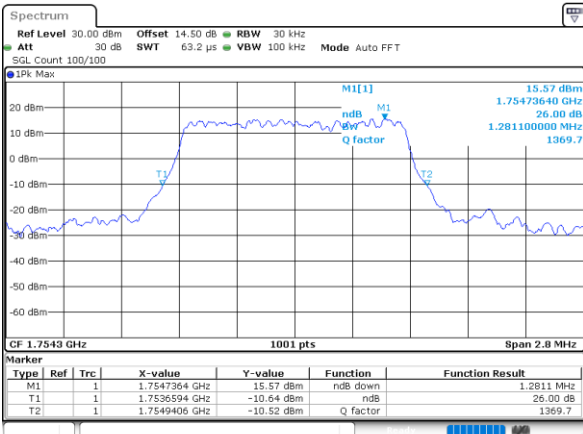
Date: 14. DEC. 2021 20:02:58

Middle Channel / 1.4MHz / 16QAM



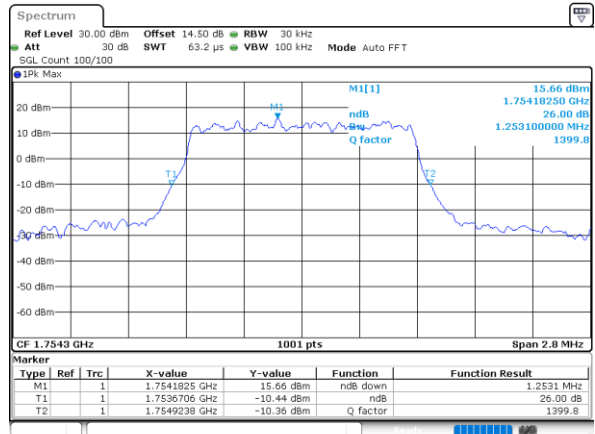
Date: 14. DEC. 2021 20:03:22

Highest Channel / 1.4MHz / QPSK



Date: 14. DEC. 2021 20:07:10

Highest Channel / 1.4MHz / 16QAM

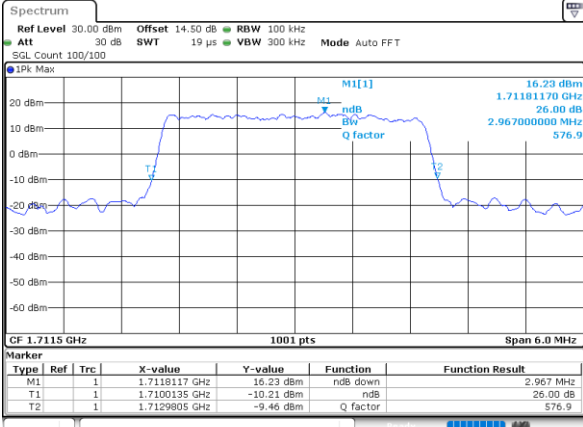


Date: 14. DEC. 2021 20:07:34



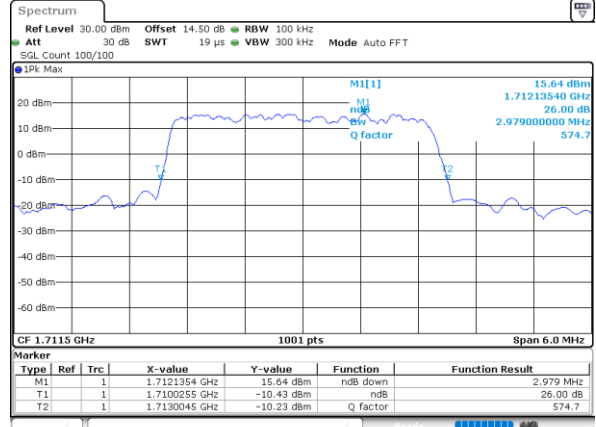
LTE Band 4

Lowest Channel / 3MHz / QPSK



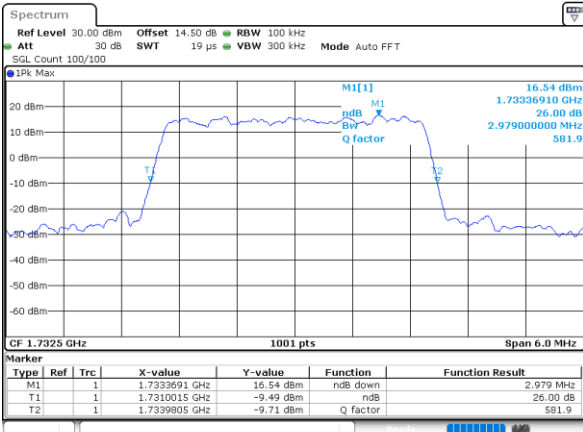
Date: 14.DEC.2021 14:11:35

Lowest Channel / 3MHz / 16QAM



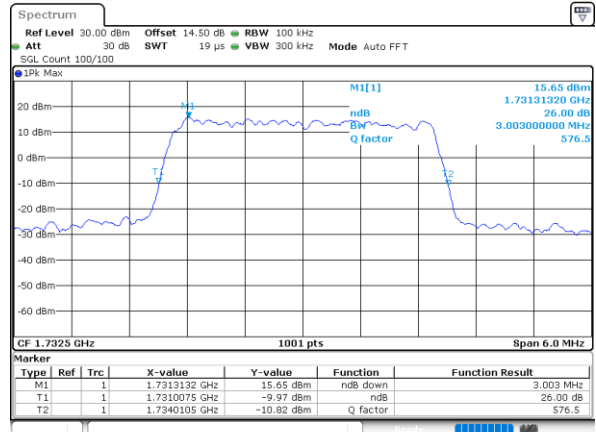
Date: 14.DEC.2021 14:11:59

Middle Channel / 3MHz / QPSK



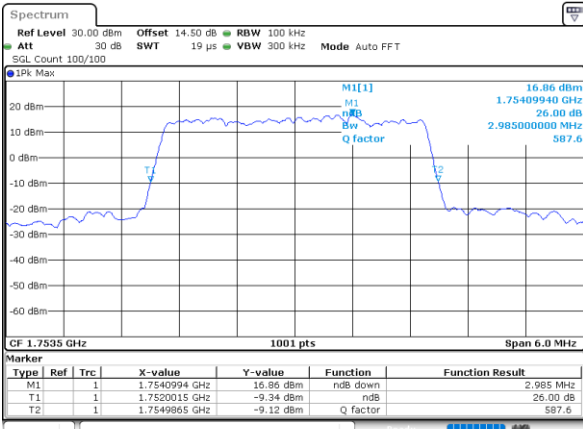
Date: 14.DEC.2021 14:21:01

Middle Channel / 3MHz / 16QAM



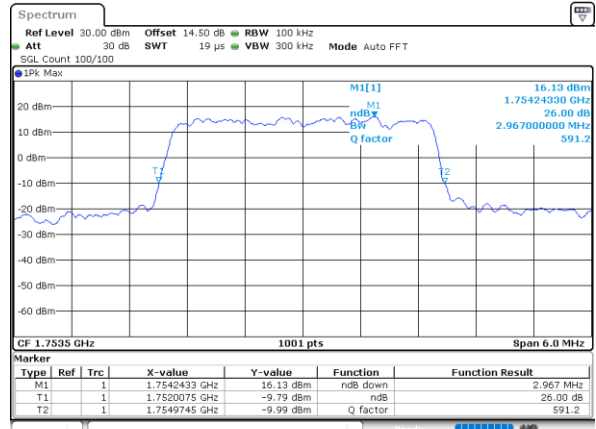
Date: 14.DEC.2021 14:21:25

Highest Channel / 3MHz / QPSK



Date: 14.DEC.2021 14:25:13

Highest Channel / 3MHz / 16QAM

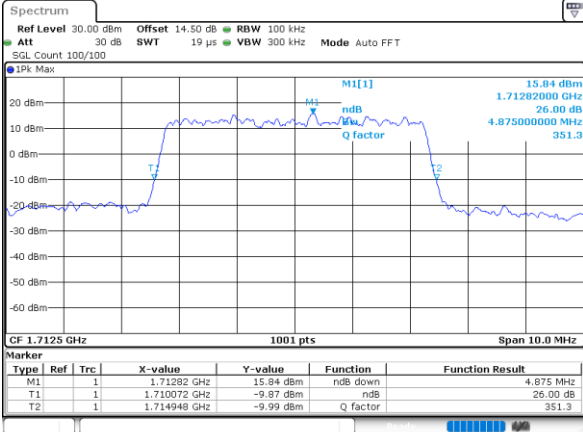


Date: 14.DEC.2021 14:25:37



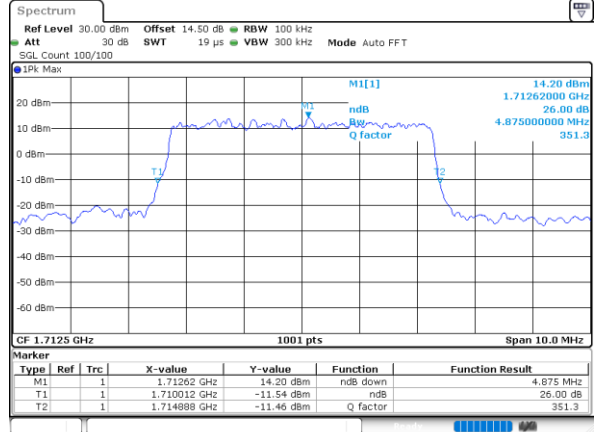
LTE Band 4

Lowest Channel / 5MHz / QPSK



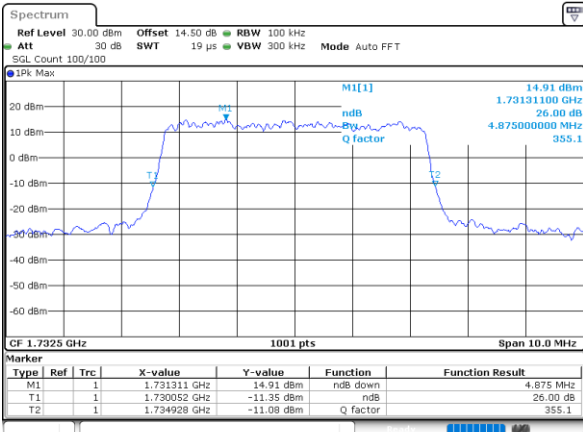
Date: 14. DEC. 2021 14:36:10

Lowest Channel / 5MHz / 16QAM



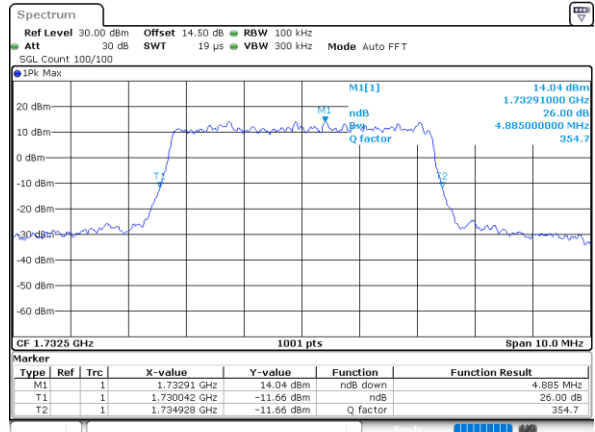
Date: 14. DEC. 2021 14:36:42

Middle Channel / 5MHz / QPSK



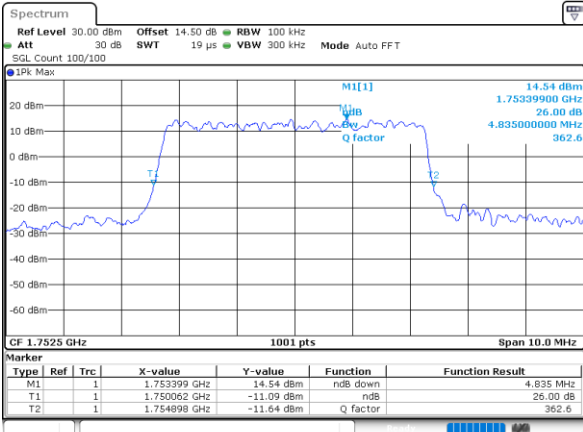
Date: 14. DEC. 2021 14:45:43

Middle Channel / 5MHz / 16QAM



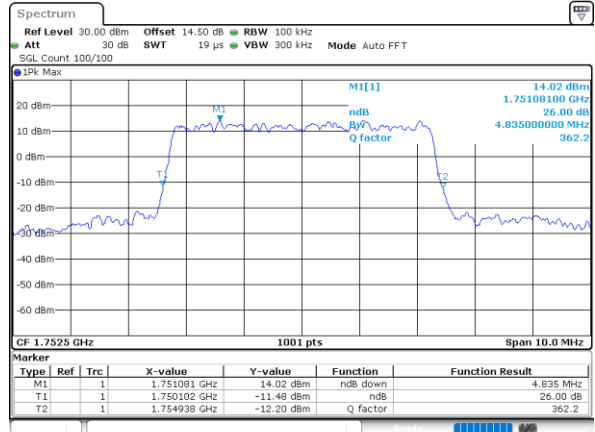
Date: 14. DEC. 2021 14:46:06

Highest Channel / 5MHz / QPSK



Date: 14. DEC. 2021 14:49:55

Highest Channel / 5MHz / 16QAM

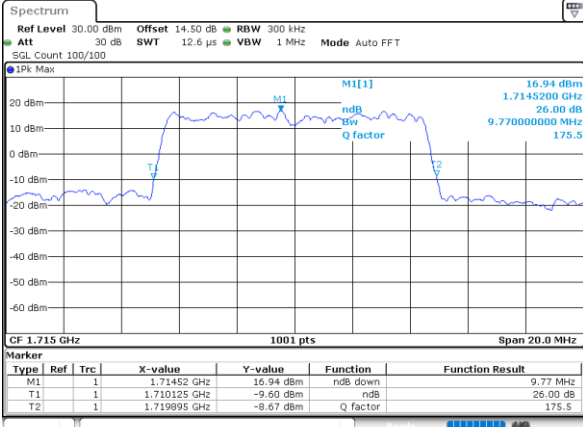


Date: 14. DEC. 2021 14:50:19



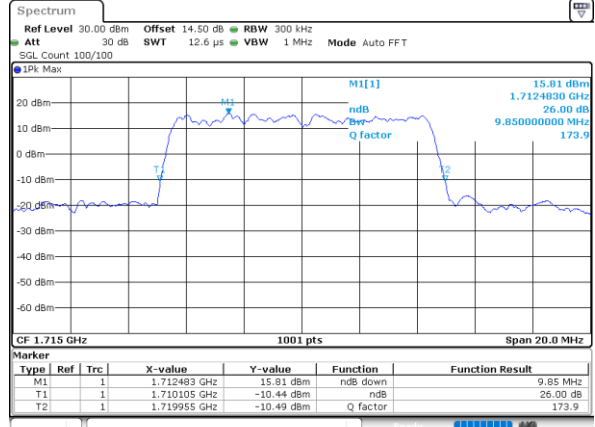
LTE Band 4

Lowest Channel / 10MHz / QPSK



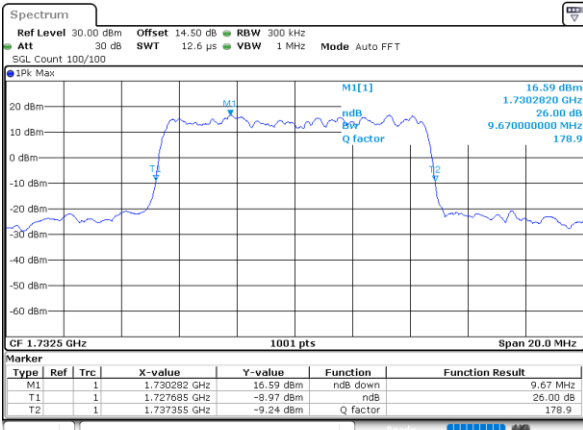
Date: 14. DEC. 2021 14:59:20

Lowest Channel / 10MHz / 16QAM



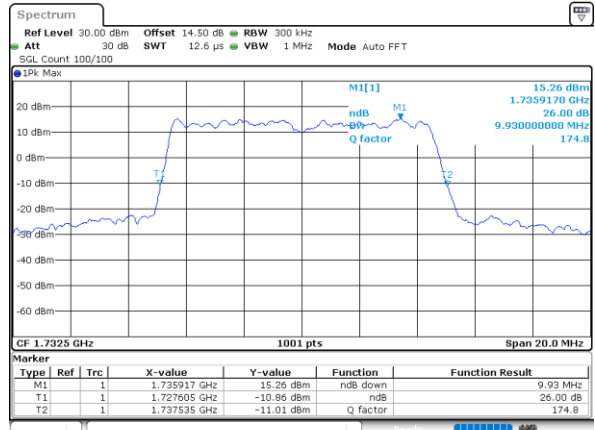
Date: 14. DEC. 2021 14:59:44

Middle Channel / 10MHz / QPSK



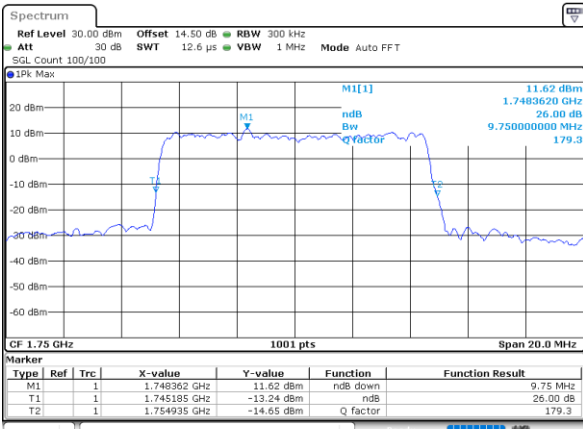
Date: 14. DEC. 2021 15:08:43

Middle Channel / 10MHz / 16QAM



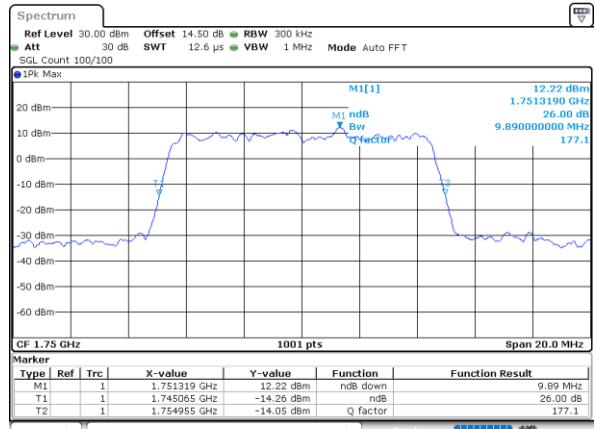
Date: 14. DEC. 2021 15:09:06

Highest Channel / 10MHz / QPSK



Date: 14. DEC. 2021 15:12:54

Highest Channel / 10MHz / 16QAM

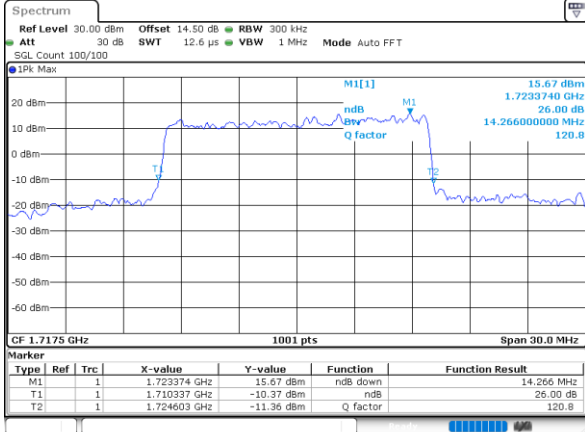


Date: 14. DEC. 2021 15:13:18



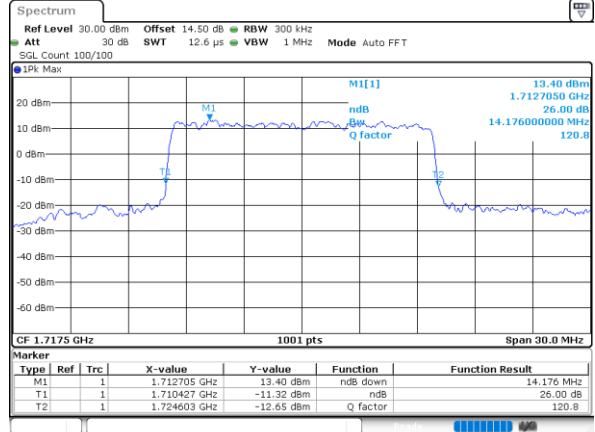
LTE Band 4

Lowest Channel / 15MHz / QPSK



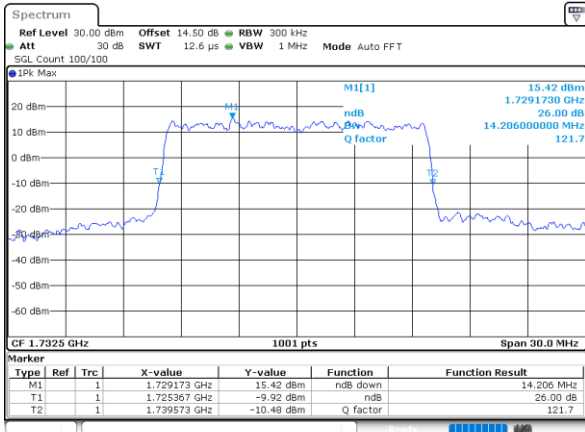
Date: 14. DEC. 2021 15:22:21

Lowest Channel / 15MHz / 16QAM



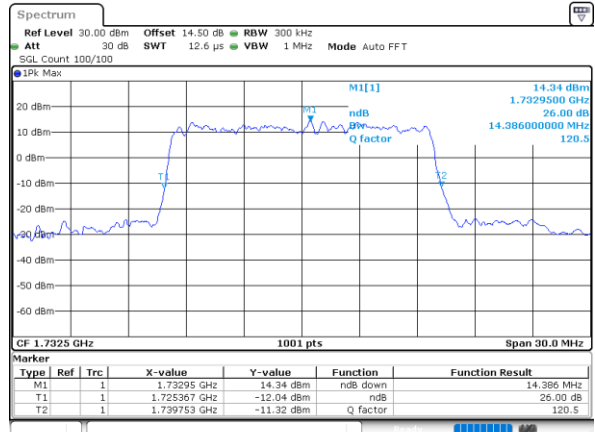
Date: 14. DEC. 2021 15:22:45

Middle Channel / 15MHz / QPSK



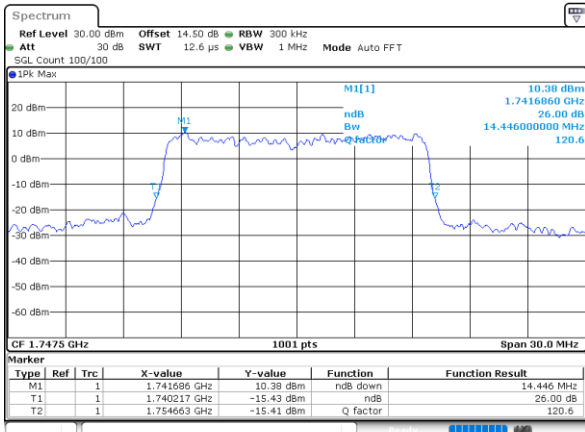
Date: 14. DEC. 2021 15:31:46

Middle Channel / 15MHz / 16QAM



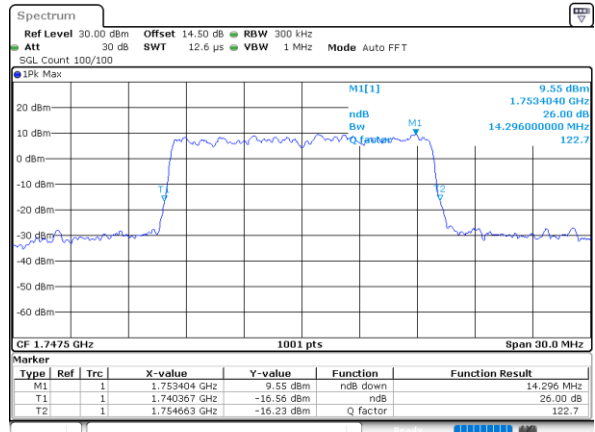
Date: 14. DEC. 2021 15:32:10

Highest Channel / 15MHz / QPSK



Date: 14. DEC. 2021 17:23:19

Highest Channel / 15MHz / 16QAM

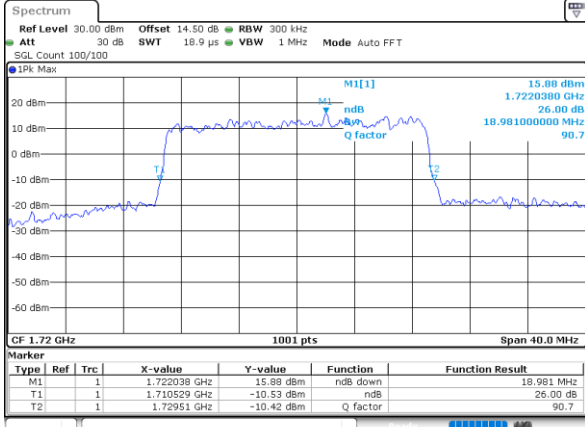


Date: 14. DEC. 2021 17:23:43



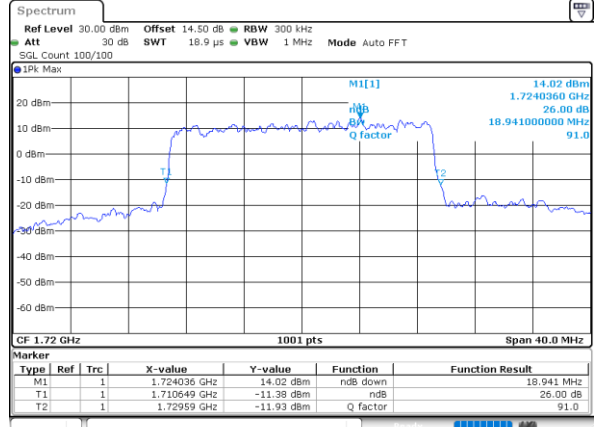
LTE Band 4

Lowest Channel / 20MHz / QPSK



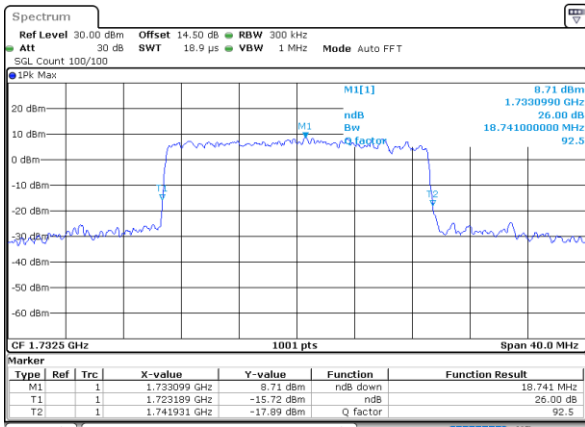
Date: 14. DEC. 2021 17:32:46

Lowest Channel / 20MHz / 16QAM



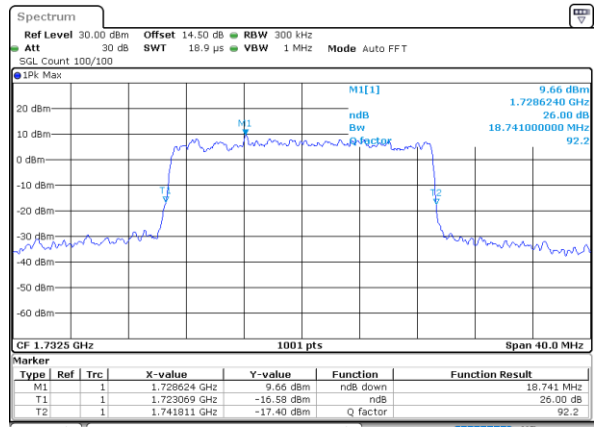
Date: 14. DEC. 2021 17:33:10

Middle Channel / 20MHz / QPSK



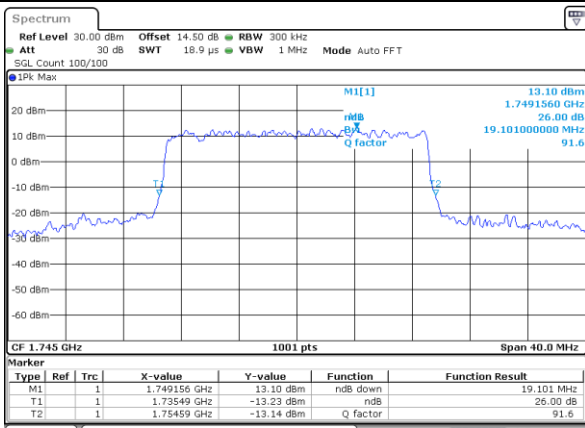
Date: 14. DEC. 2021 17:42:10

Middle Channel / 20MHz / 16QAM



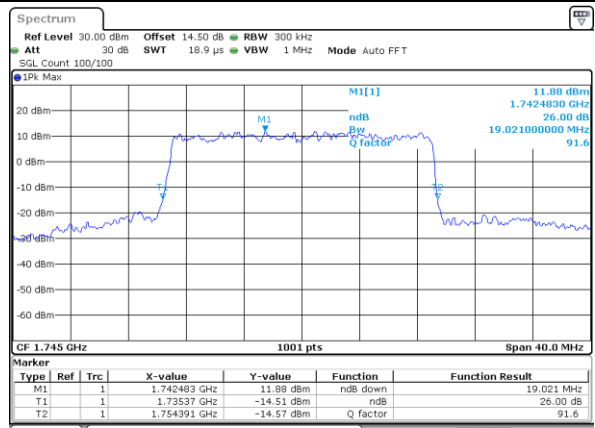
Date: 14. DEC. 2021 17:42:34

Highest Channel / 20MHz / QPSK



Date: 14. DEC. 2021 18:37:42

Highest Channel / 20MHz / 16QAM



Date: 14. DEC. 2021 18:38:06