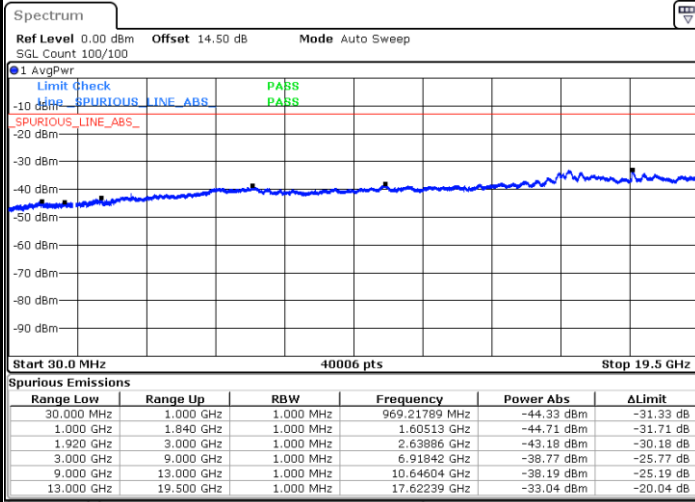




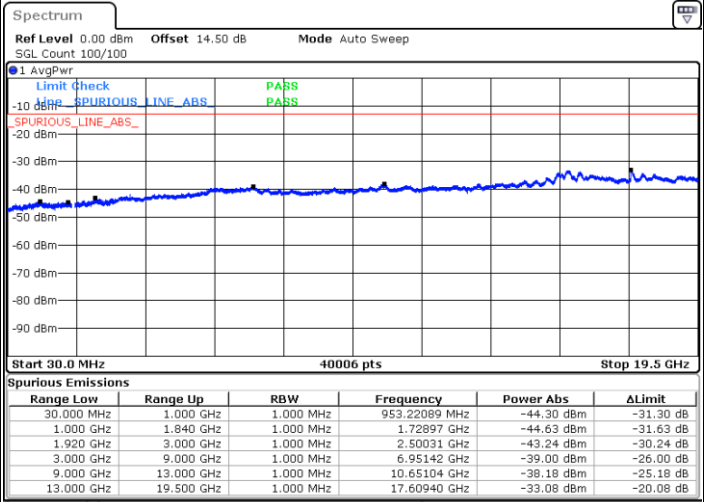
LTE Band 2 / 1.4MHz

Highest Channel / QPSK



Date: 23.NOV.2022 18:28:10

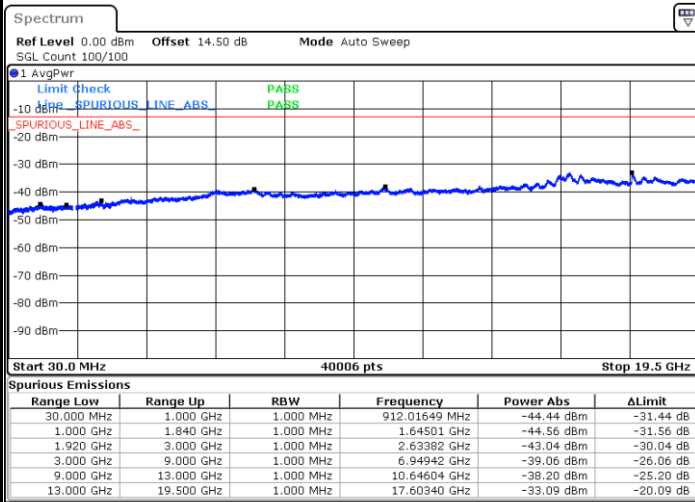
Highest Channel / 16QAM



Date: 23.NOV.2022 18:29:33

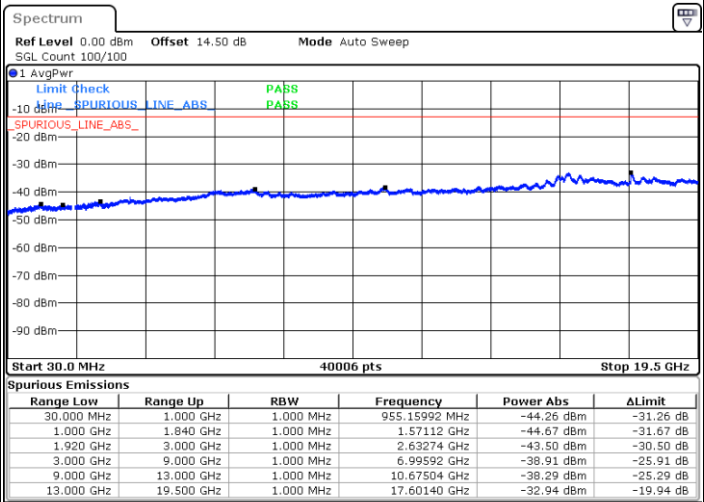
LTE Band 2 / 3MHz

Lowest Channel / QPSK



Date: 23.NOV.2022 18:38:02

Lowest Channel / 16QAM

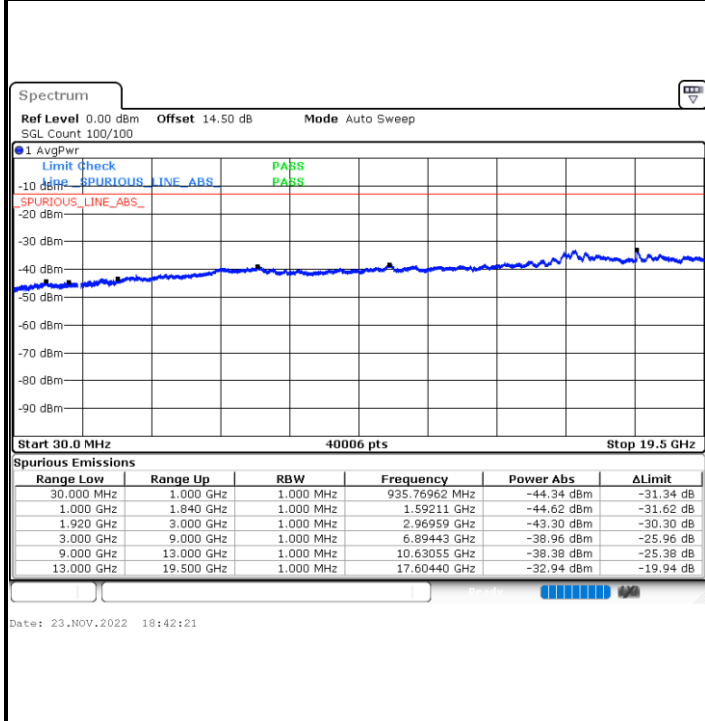


Date: 23.NOV.2022 18:39:25

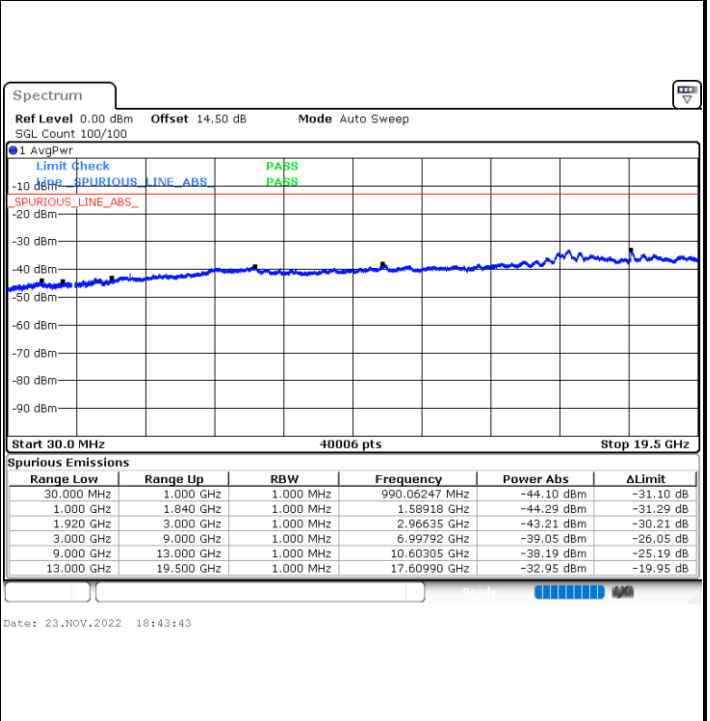


LTE Band 2 / 3MHz

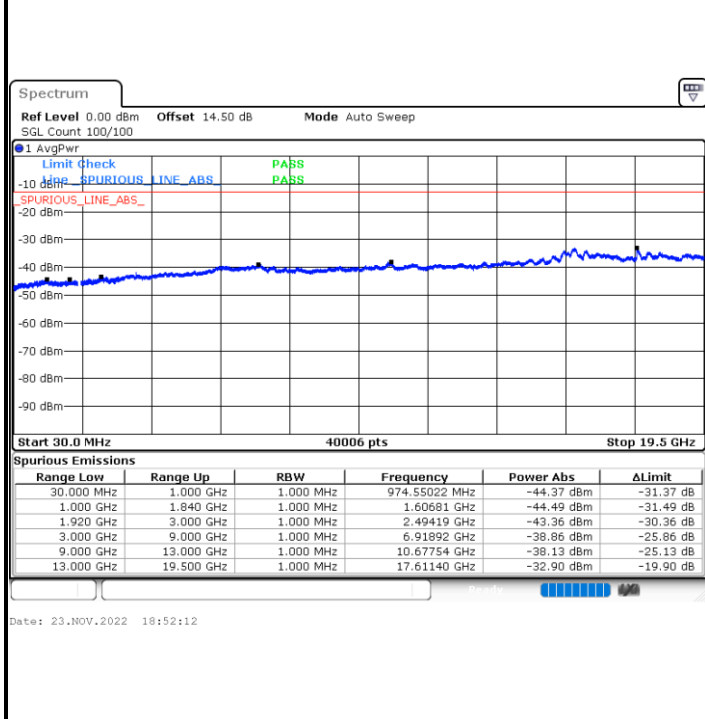
Middle Channel / QPSK



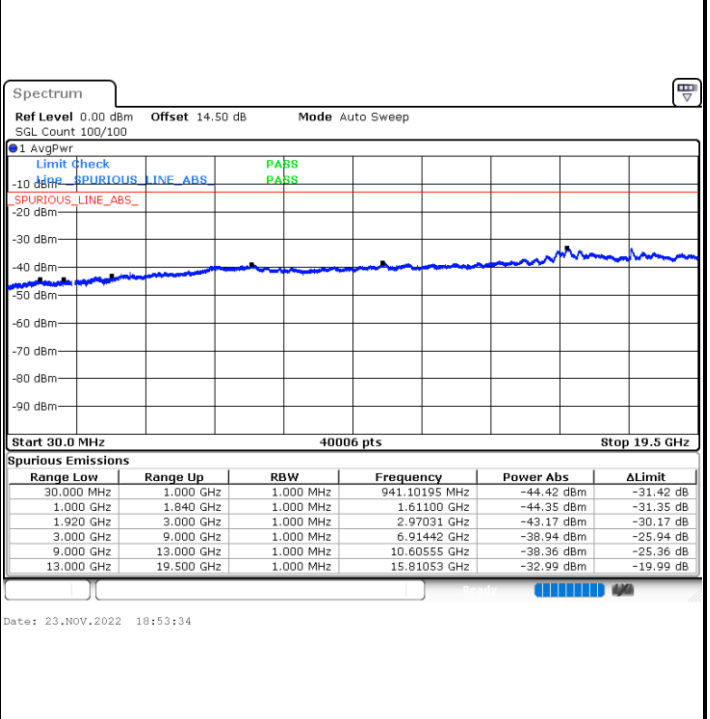
Middle Channel / 16QAM



Highest Channel / QPSK



Highest Channel / 16QAM

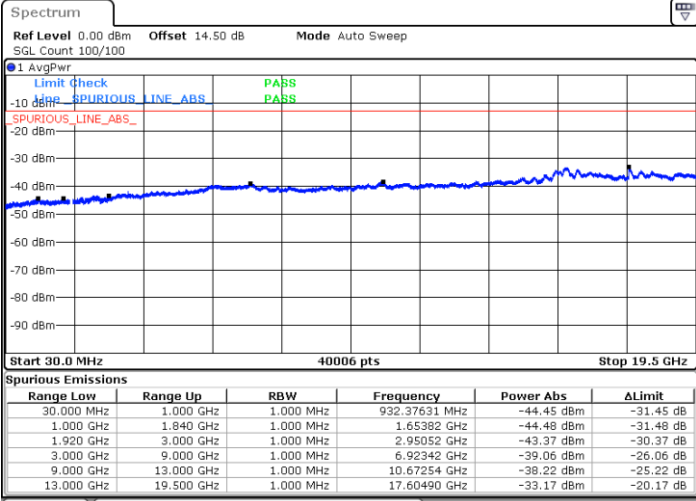




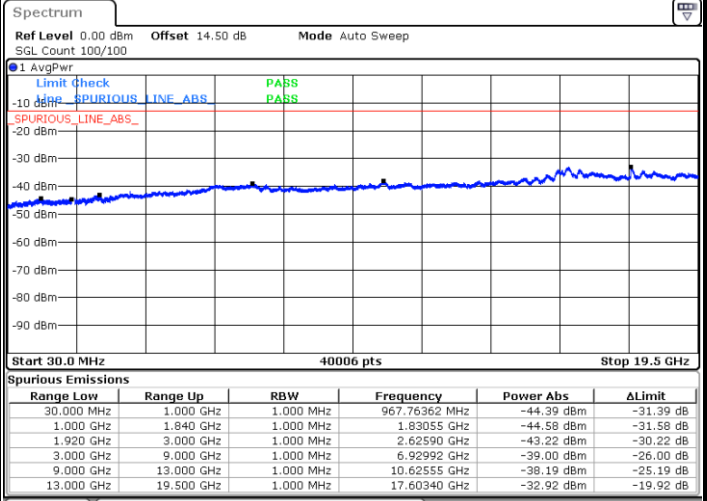
LTE Band 2 / 5MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



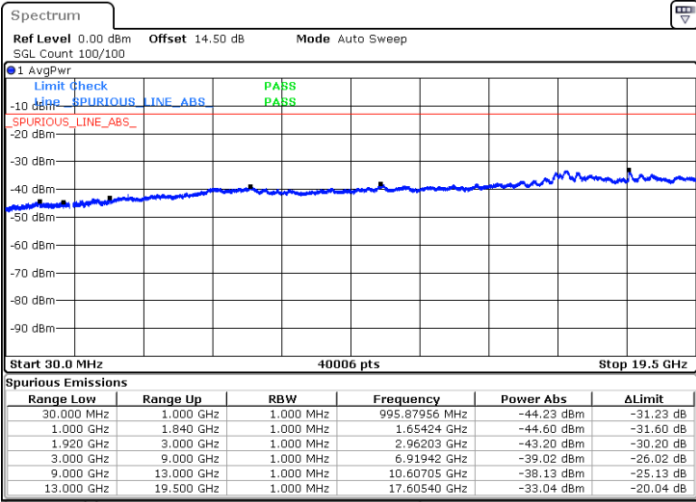
Date: 23.NOV.2022 19:02:03



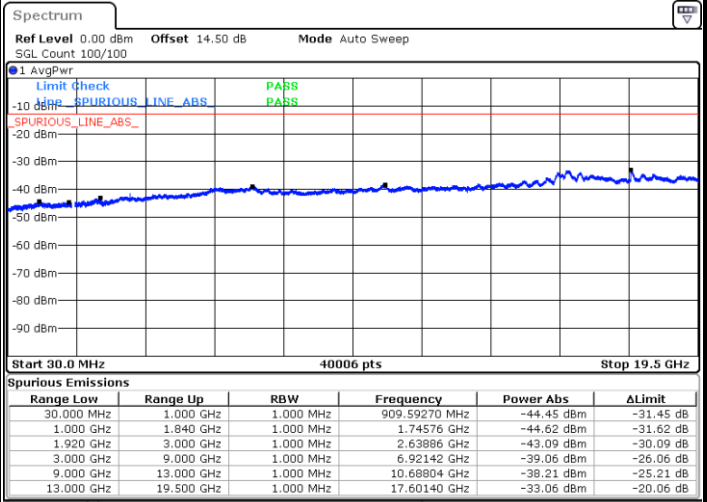
Date: 23.NOV.2022 19:03:25

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 23.NOV.2022 19:06:21

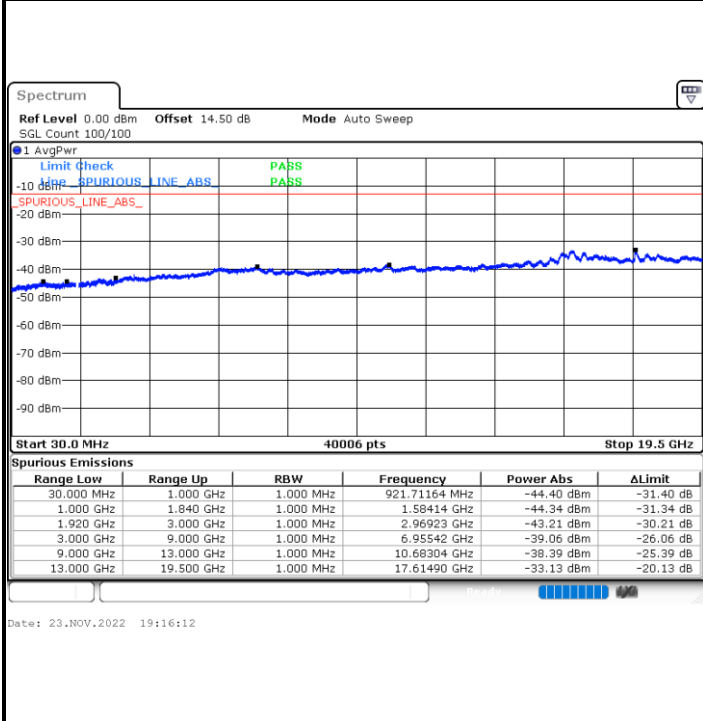


Date: 23.NOV.2022 19:07:43

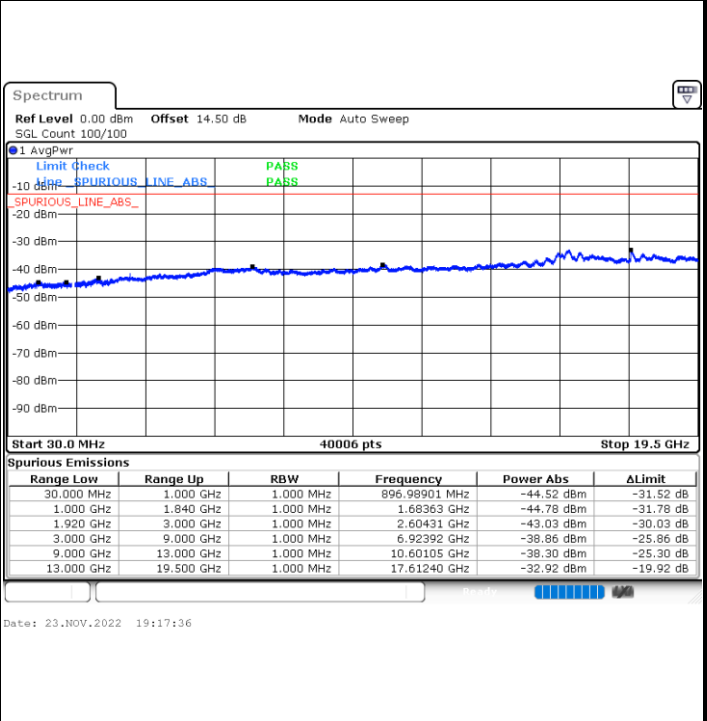


LTE Band 2 / 5MHz

Highest Channel / QPSK

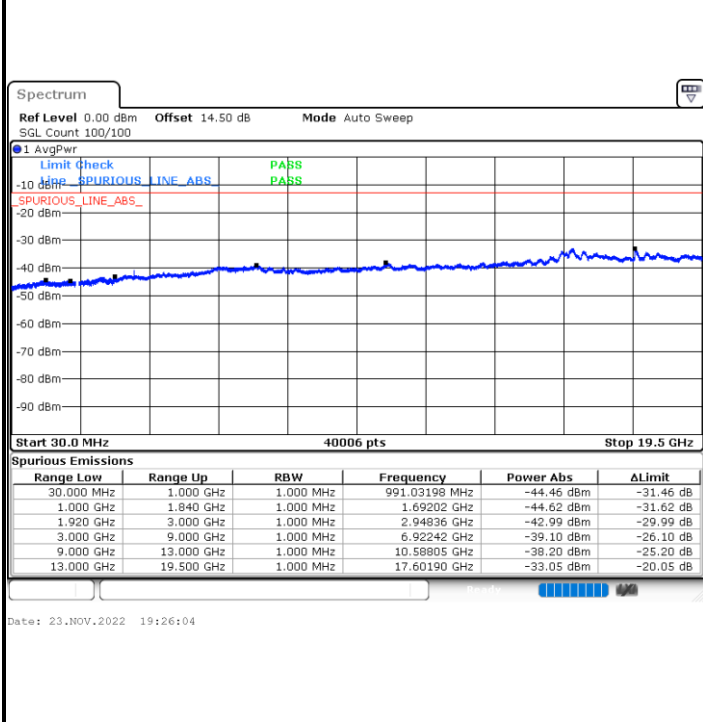


Highest Channel / 16QAM

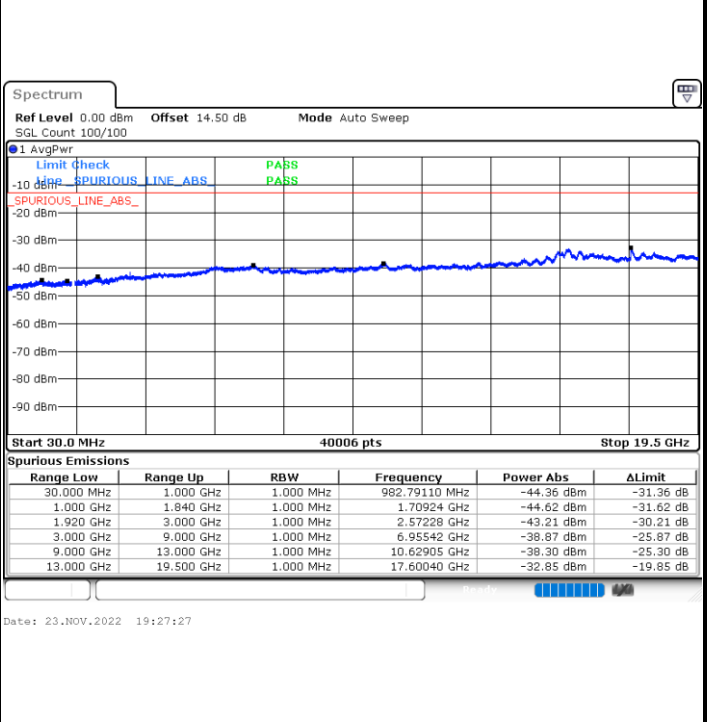


LTE Band 2 / 10MHz

Lowest Channel / QPSK



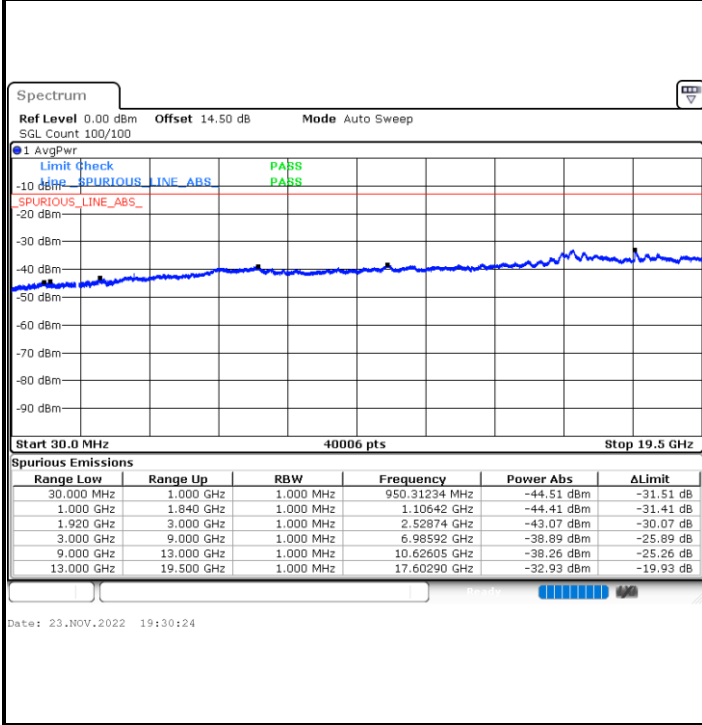
Lowest Channel / 16QAM



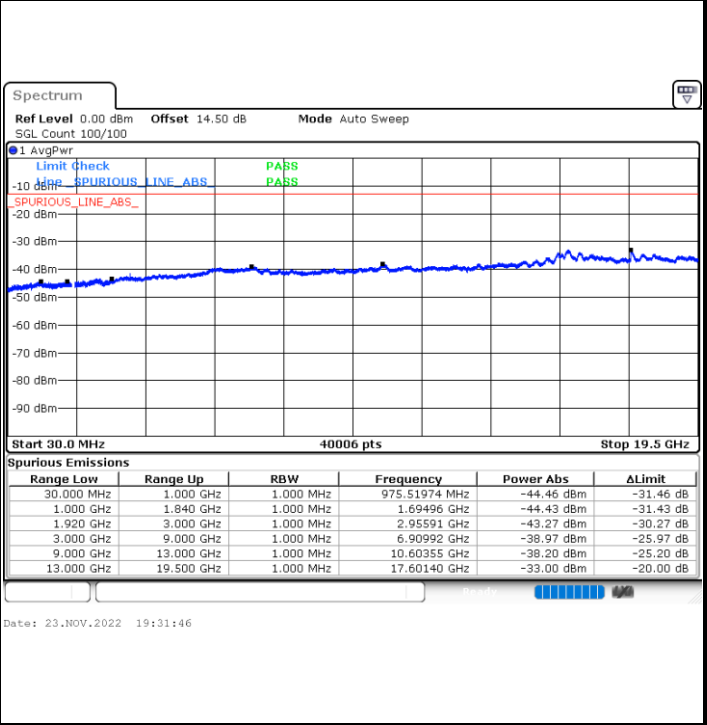


LTE Band 2 / 10MHz

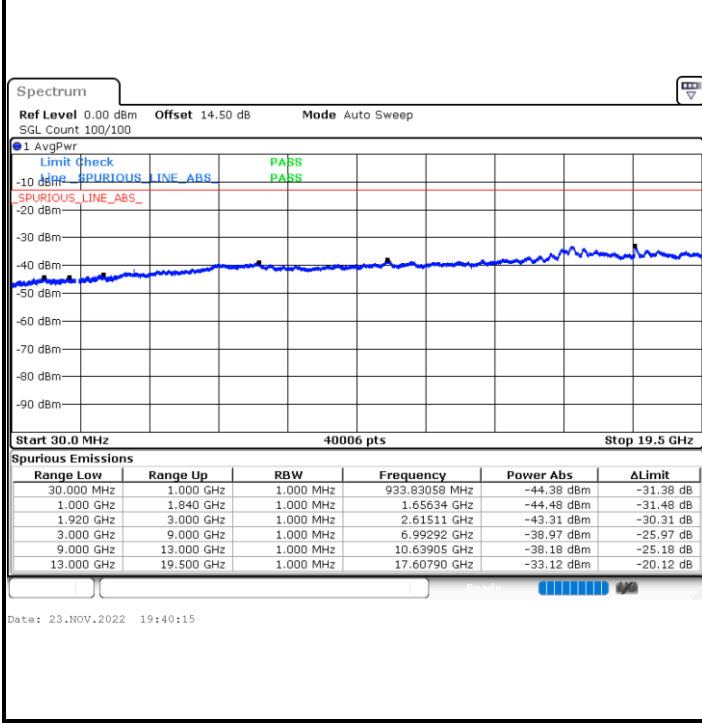
Middle Channel / QPSK



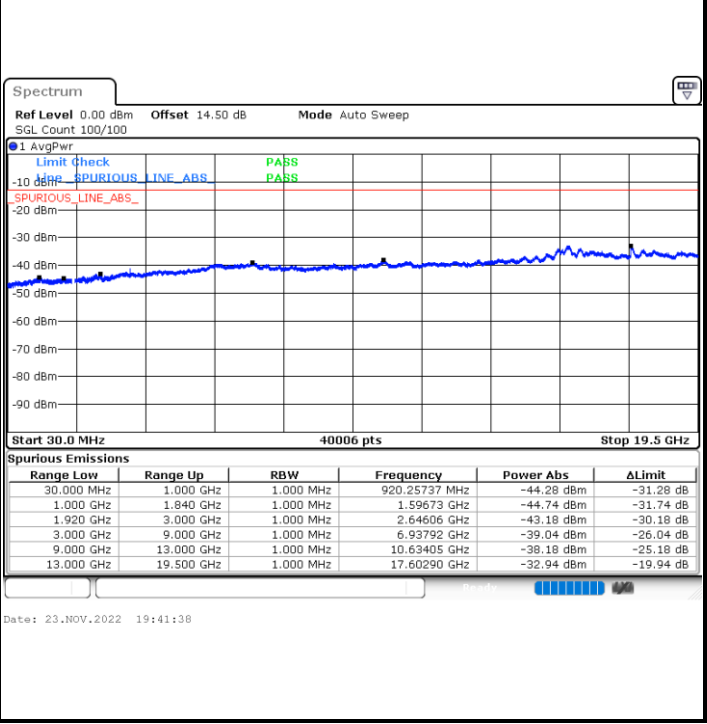
Middle Channel / 16QAM



Highest Channel / QPSK



Highest Channel / 16QAM

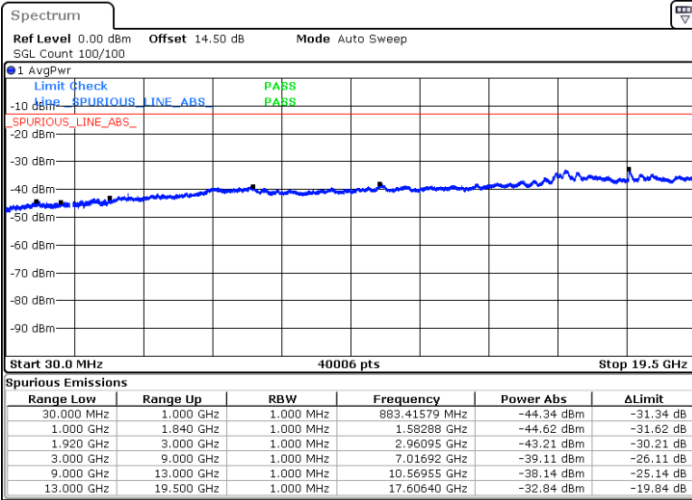




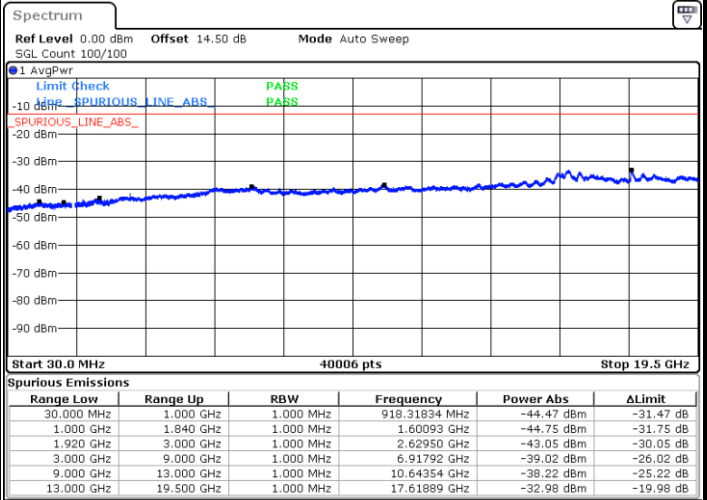
LTE Band 2 / 15MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



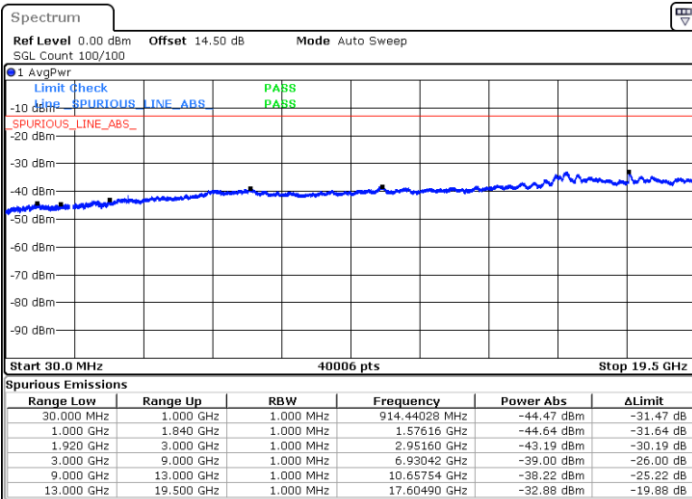
Date: 23.NOV.2022 19:50:07



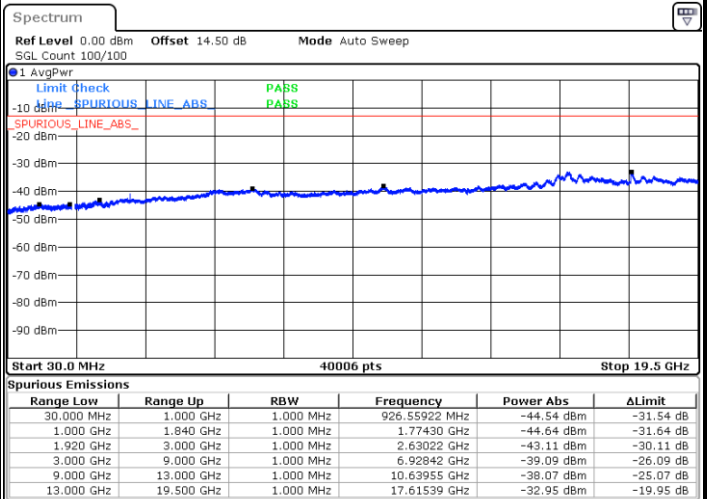
Date: 23.NOV.2022 19:51:29

Middle Channel / QPSK

Middle Channel / 16QAM



Date: 23.NOV.2022 19:54:26



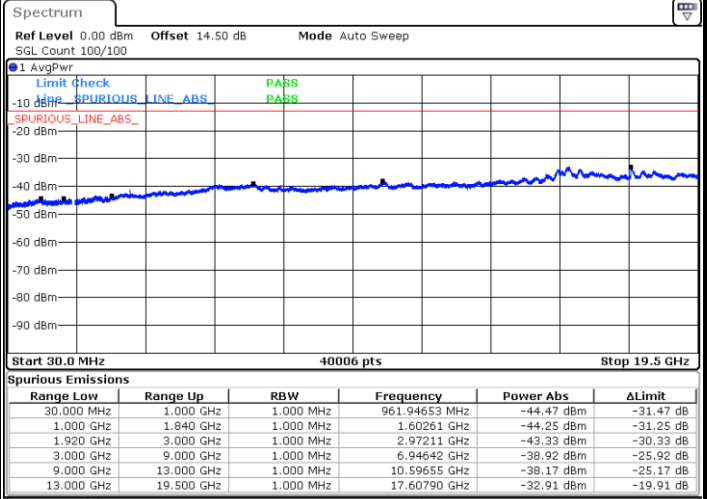
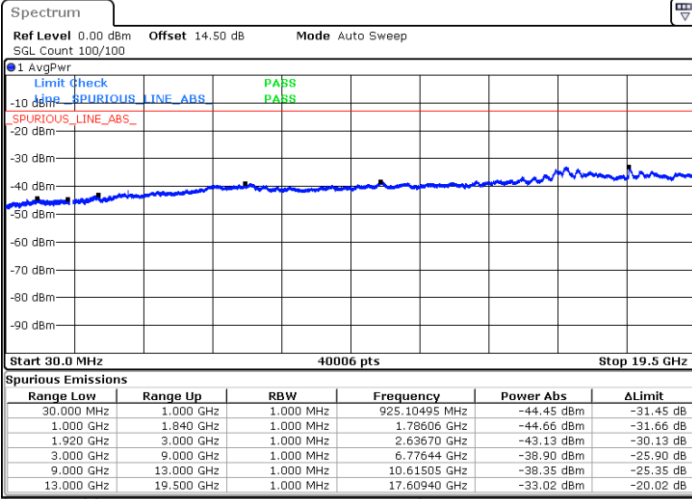
Date: 23.NOV.2022 19:55:48



LTE Band 2 / 15MHz

Highest Channel / QPSK

Highest Channel / 16QAM



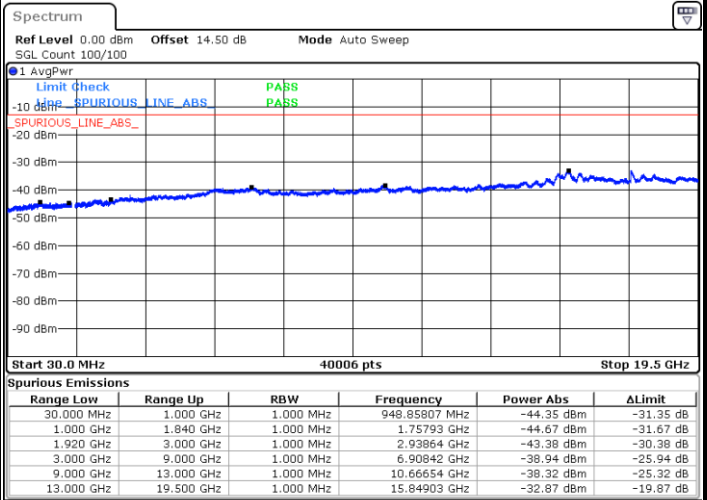
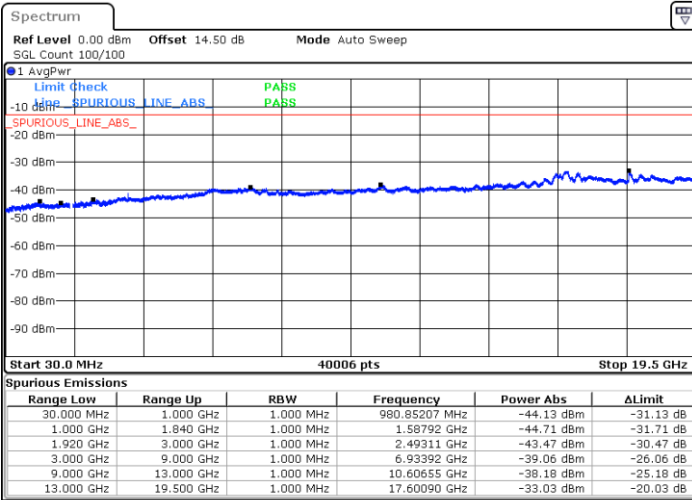
Date: 23.NOV.2022 20:04:16

Date: 23.NOV.2022 20:05:39

LTE Band 2 / 20MHz

Lowest Channel / QPSK

Lowest Channel / 16QAM



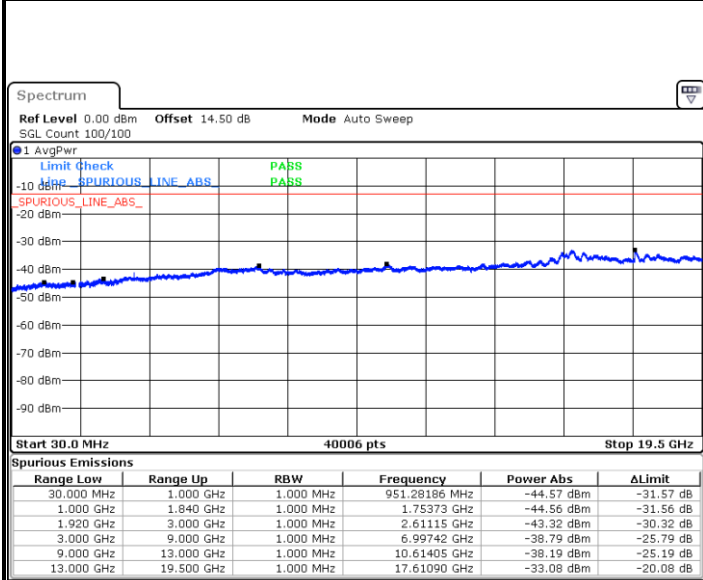
Date: 23.NOV.2022 20:14:08

Date: 23.NOV.2022 20:15:31



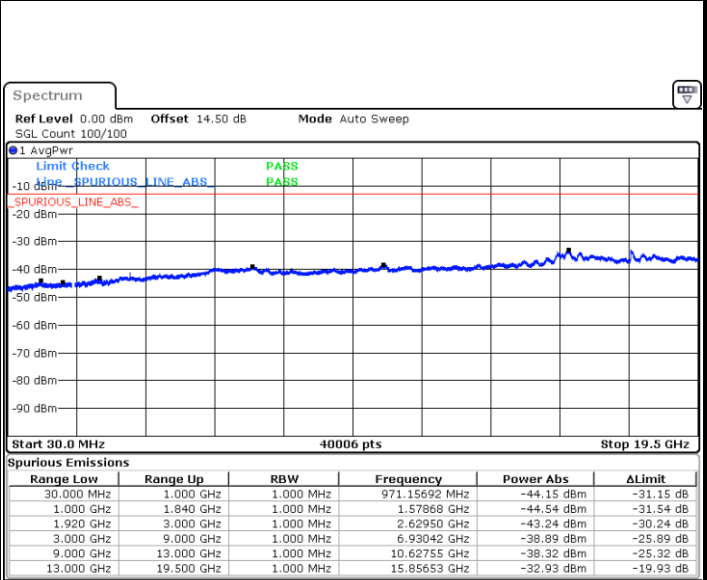
LTE Band 2 / 20MHz

Middle Channel / QPSK



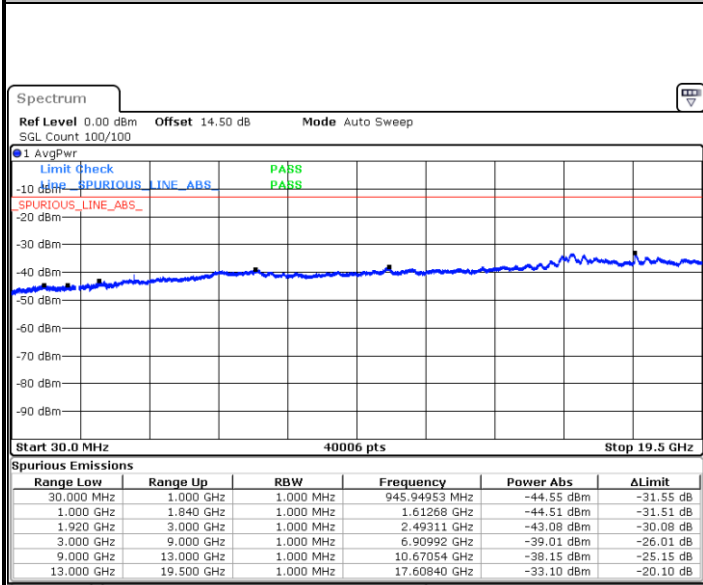
Date: 23.NOV.2022 20:18:28

Middle Channel / 16QAM



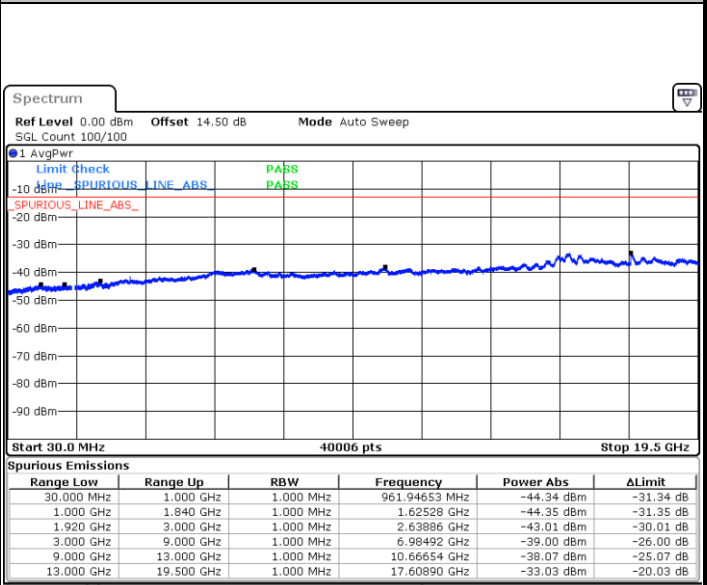
Date: 23.NOV.2022 20:19:50

Highest Channel / QPSK



Date: 23.NOV.2022 20:28:19

Highest Channel / 16QAM



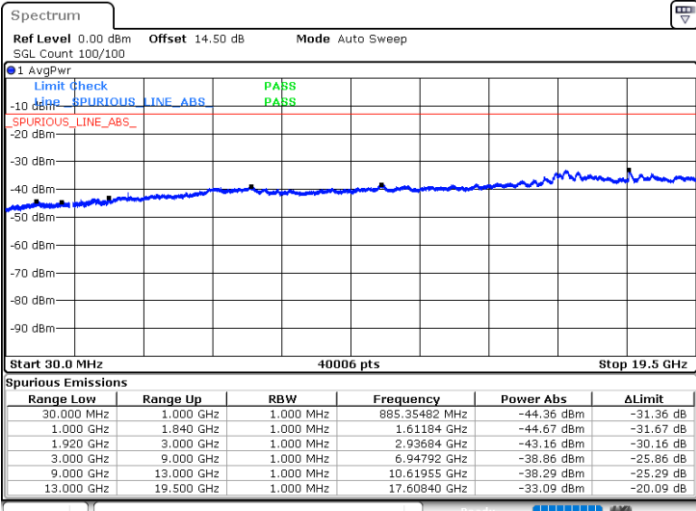
Date: 23.NOV.2022 20:29:42



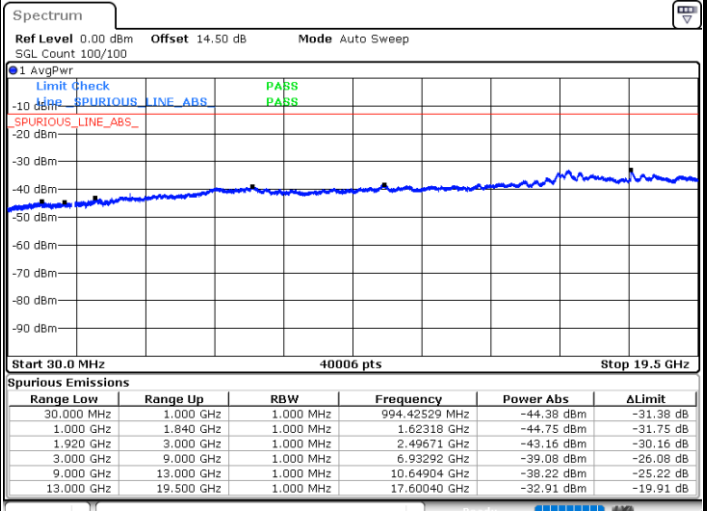
LTE Band 2 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM



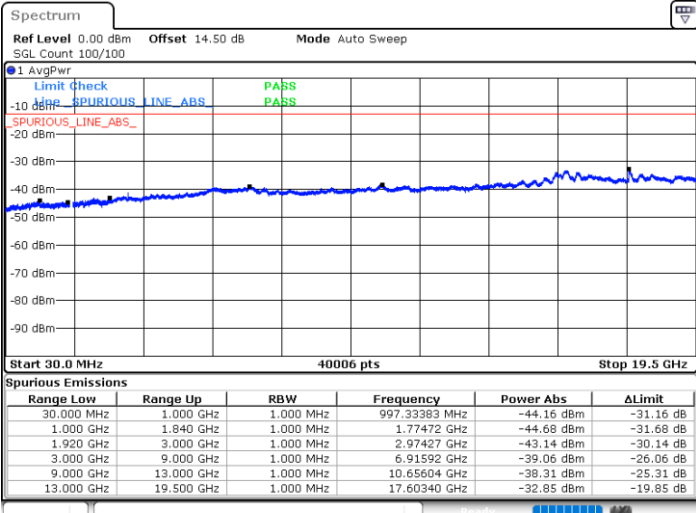
Date: 23.NOV.2022 17:58:01



Date: 23.NOV.2022 18:00:13

Highest Channel / 64QAM

N/A



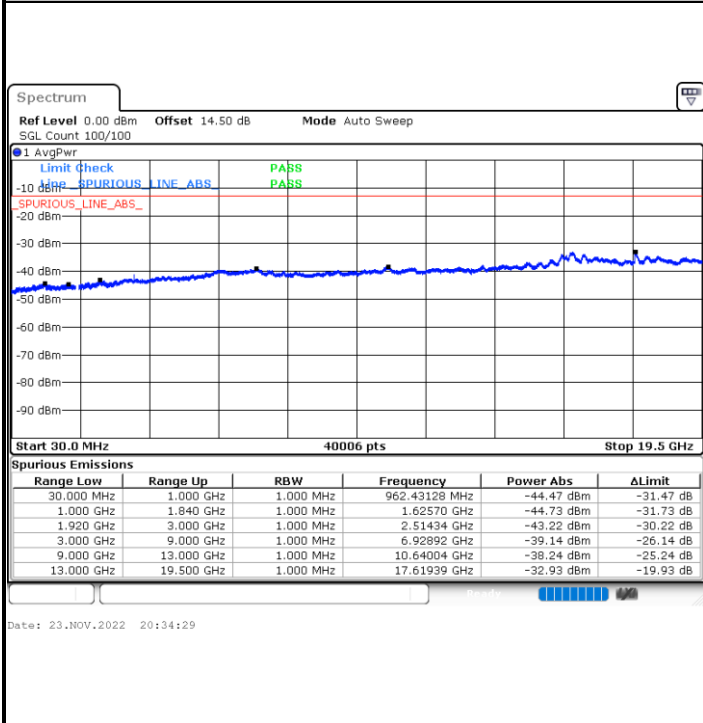
Date: 23.NOV.2022 18:05:30

N/A

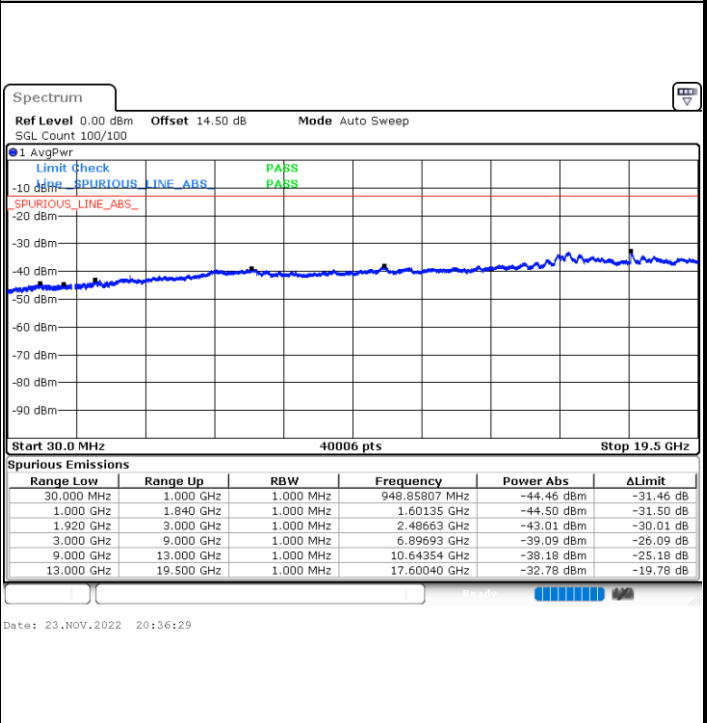


LTE Band 2 / 3MHz

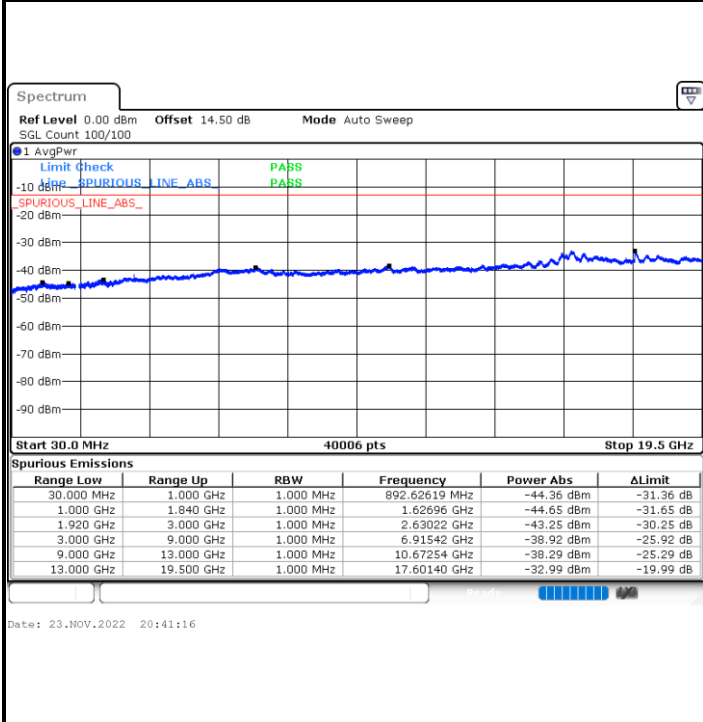
Lowest Channel / 64QAM



Middle Channel / 64QAM



Highest Channel / 64QAM



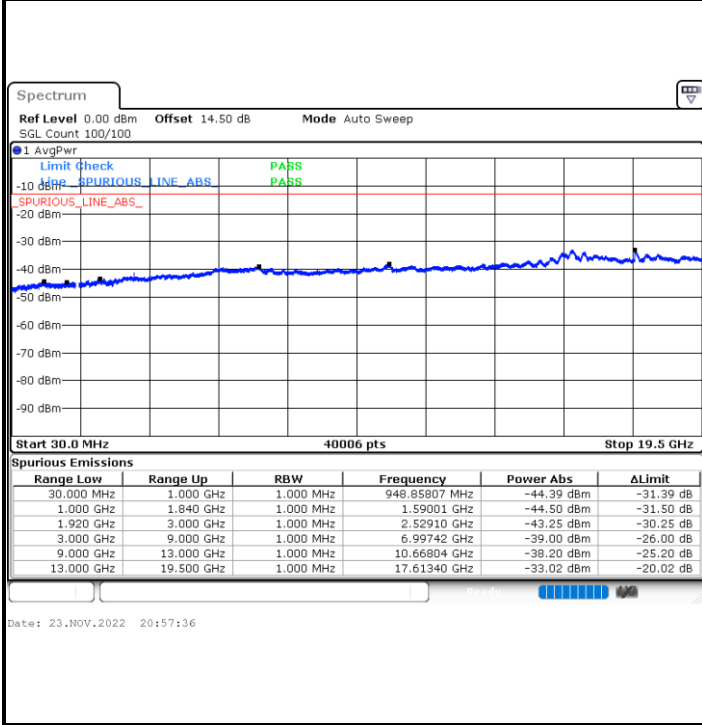
N/A

N/A

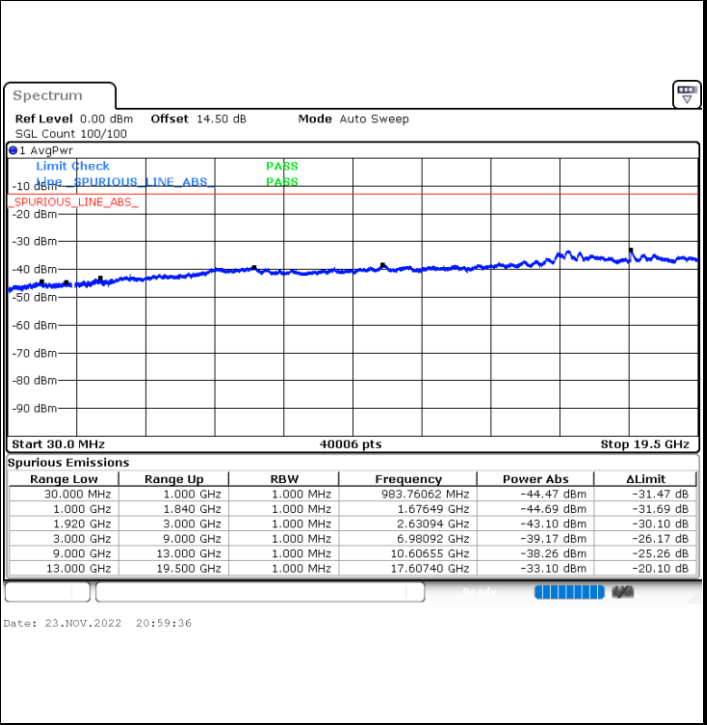


LTE Band 2 / 10MHz

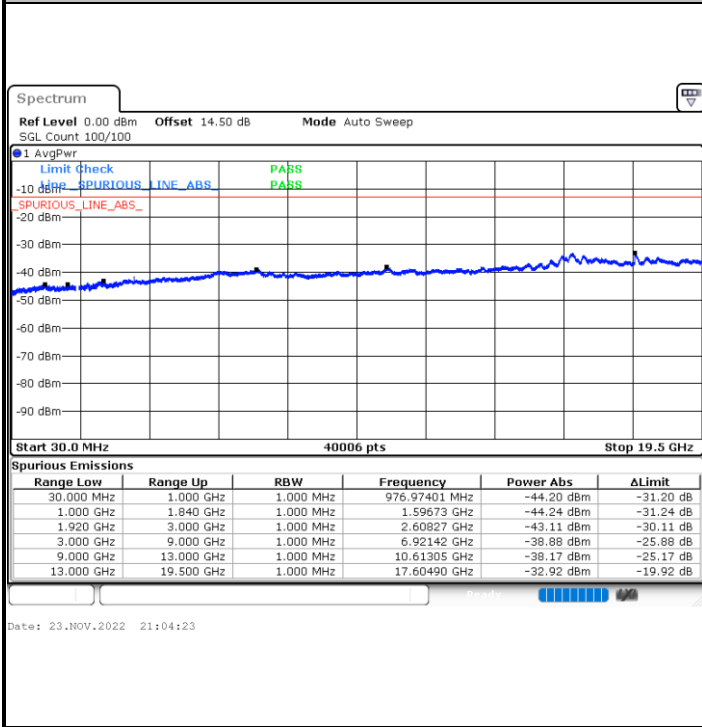
Lowest Channel / 64QAM



Middle Channel / 64QAM



Highest Channel / 64QAM



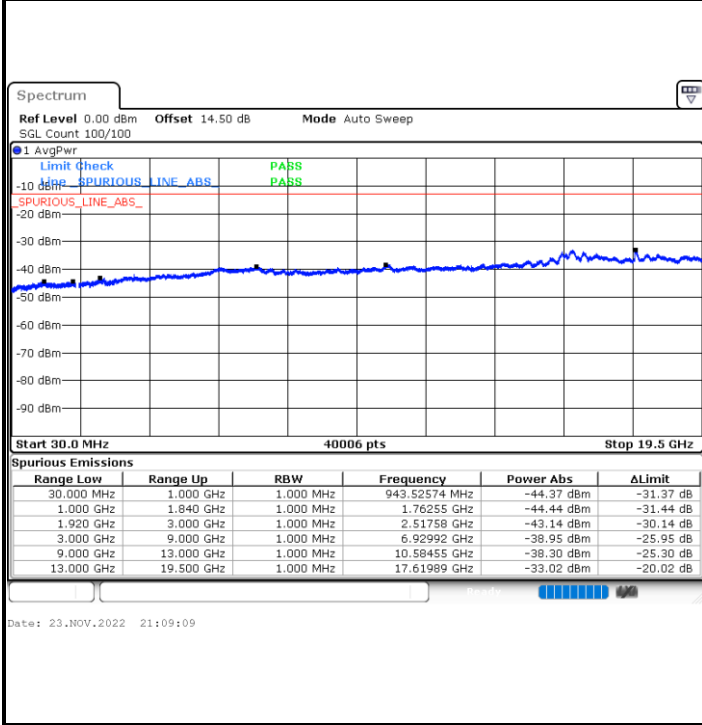
N/A

N/A

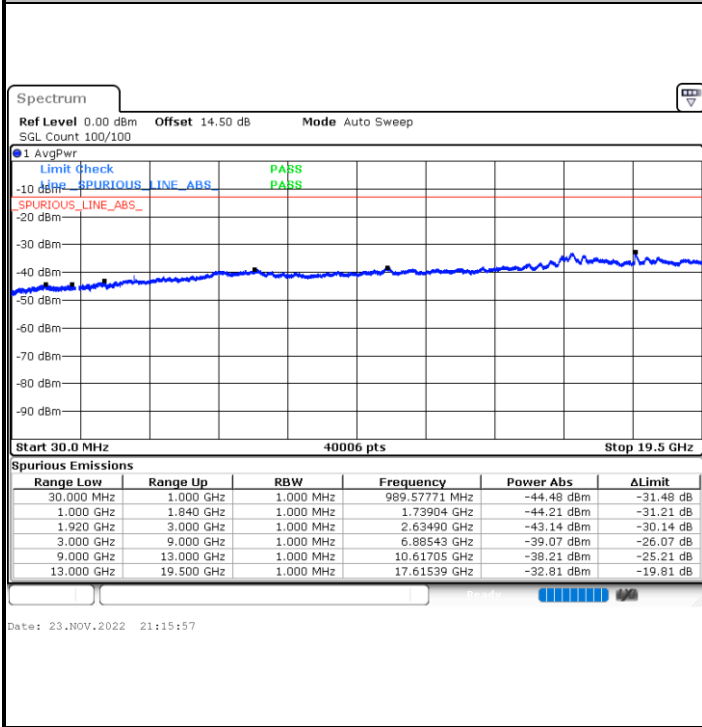


LTE Band 2 / 15MHz

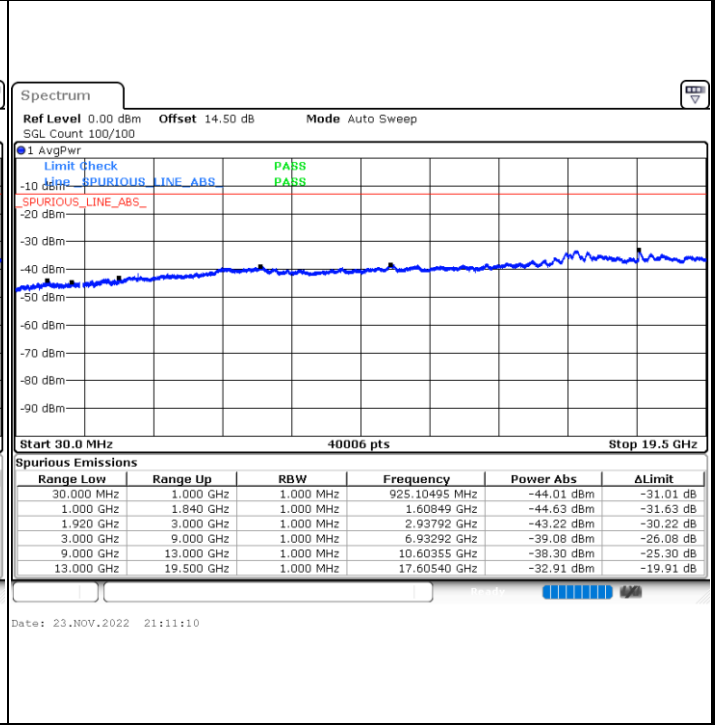
Lowest Channel / 64QAM



Highest Channel / 64QAM



Middle Channel / 64QAM



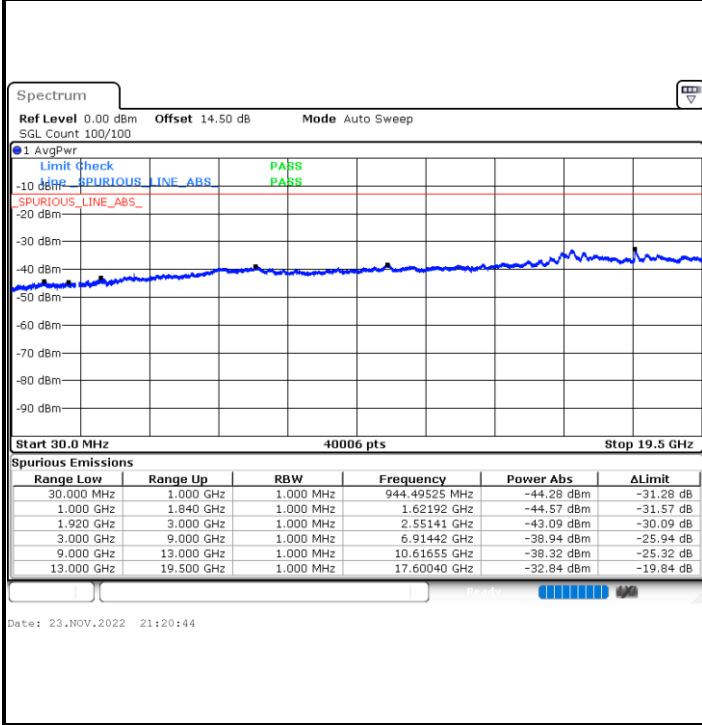
N/A

N/A

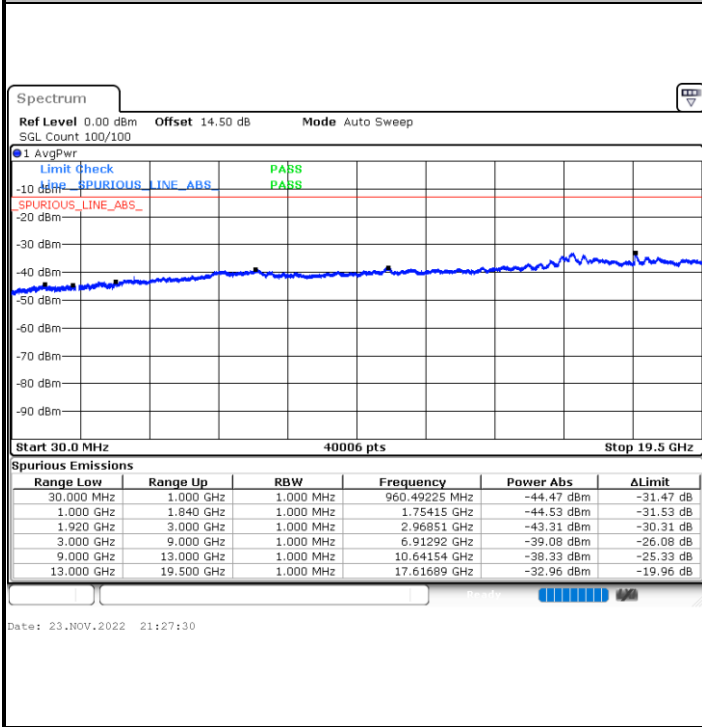


LTE Band 2 / 20MHz

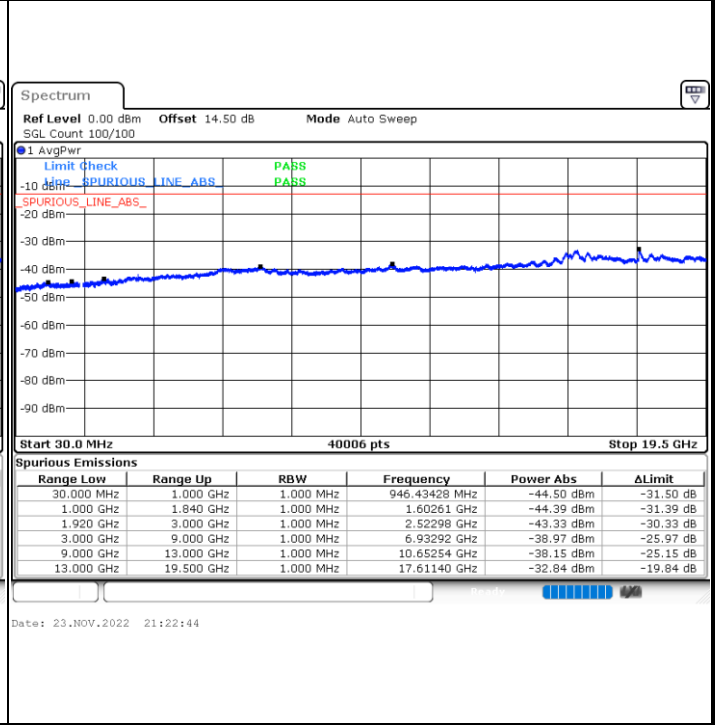
Lowest Channel / 64QAM



Highest Channel / 64QAM



Middle Channel / 64QAM



N/A

N/A



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	0.0008	PASS
40	Normal Voltage	0.0001	
30	Normal Voltage	0.0071	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0066	
0	Normal Voltage	0.0006	
-10	Normal Voltage	0.0065	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0007	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0004	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.6 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 4

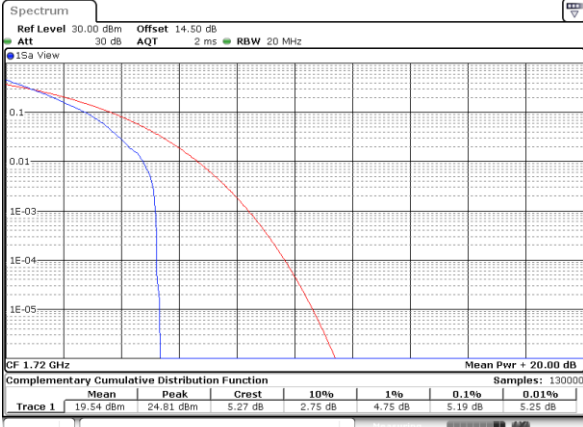
Peak-to-Average Ratio

Mode	LTE Band 4 / 20MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	5.19	5.36	5.88	6.29	PASS
Middle CH	5.01	5.42	6.00	6.35	
Highest CH	5.45	5.54	6.14	6.38	
Mode	LTE Band 4 / 20MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	6.72	6.70	-	-	PASS
Middle CH	6.43	6.70	-	-	
Highest CH	6.32	6.78	-	-	



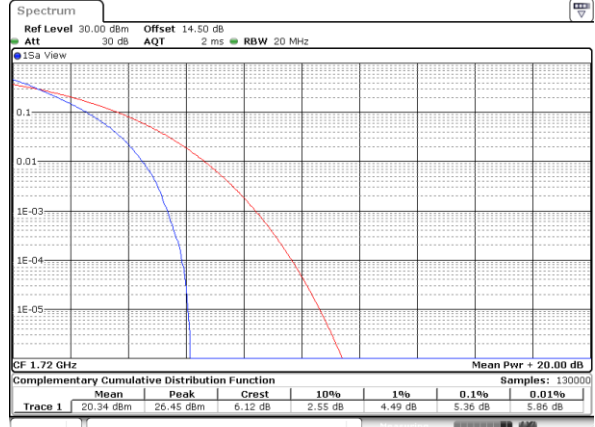
LTE Band 4 / 20MHz / QPSK

Lowest Channel / 1RB



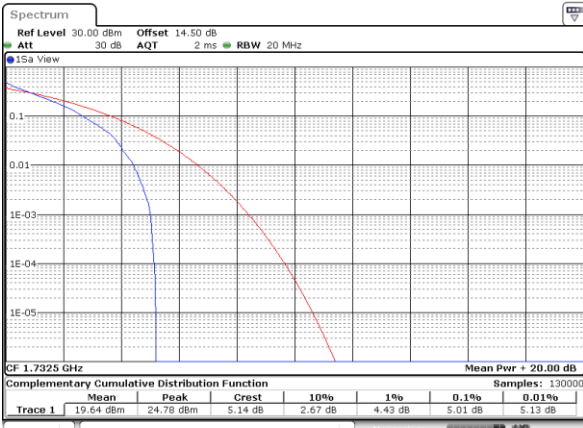
Date: 25.NOV.2022 16:42:07

Lowest Channel / Full RB



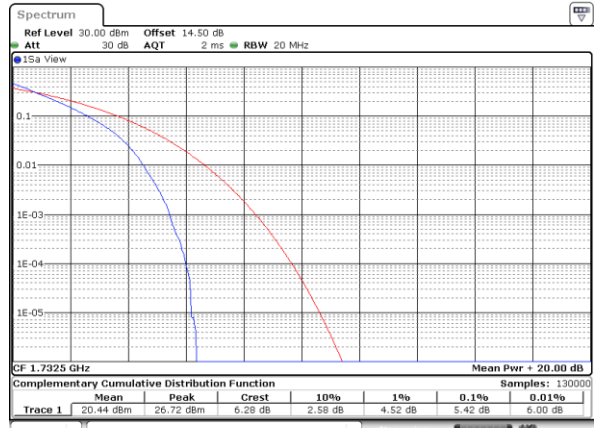
Date: 25.NOV.2022 16:44:120

Middle Channel / 1RB



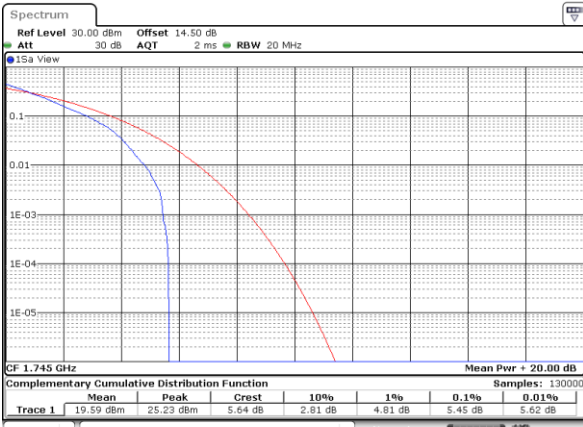
Date: 25.NOV.2022 16:50:15

Middle Channel / Full RB



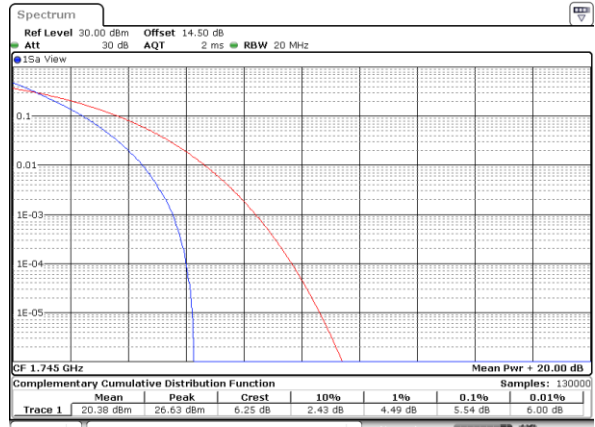
Date: 25.NOV.2022 16:47:46

Highest Channel / 1RB



Date: 25.NOV.2022 16:50:39

Highest Channel / Full RB

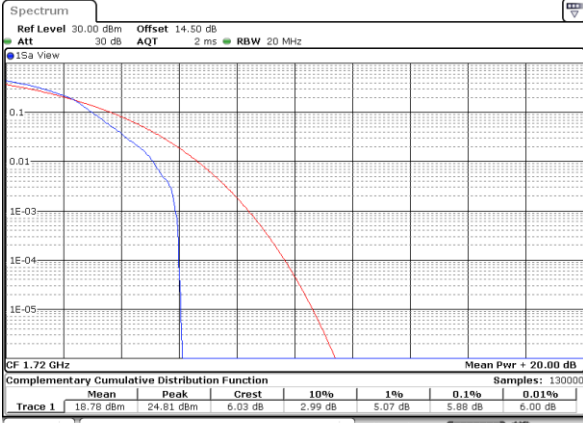


Date: 25.NOV.2022 16:53:03



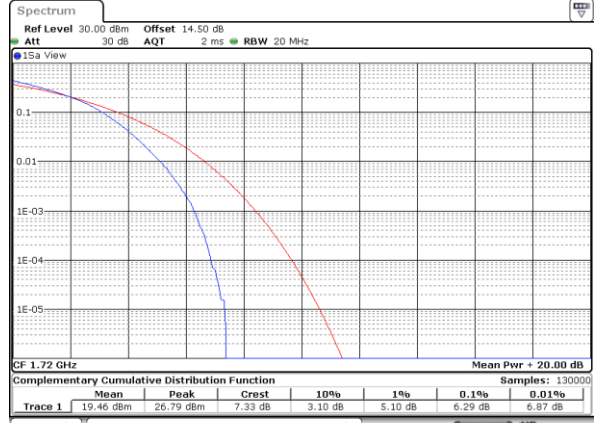
LTE Band 4 / 20MHz / 16QAM

Lowest Channel / 1RB



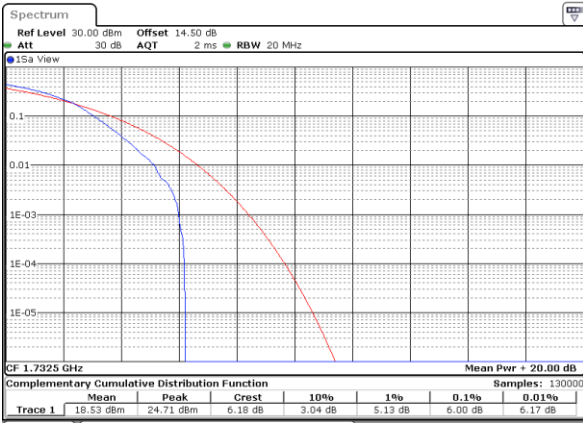
Date: 25.NOV.2022 16:42:29

Lowest Channel / Full RB



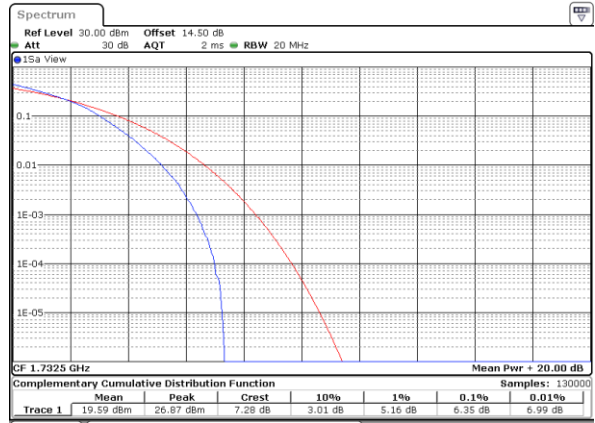
Date: 25.NOV.2022 16:43:57

Middle Channel / 1RB



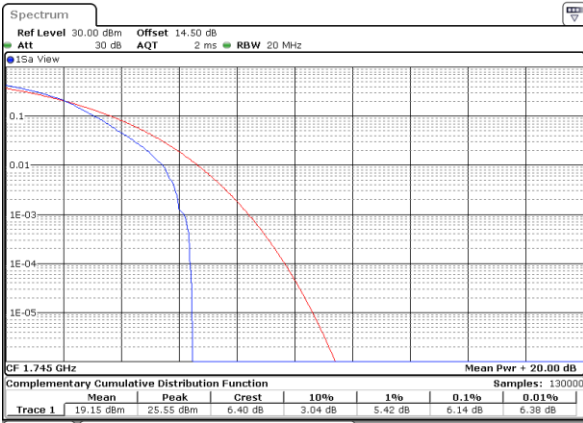
Date: 25.NOV.2022 16:49:49

Middle Channel / Full RB



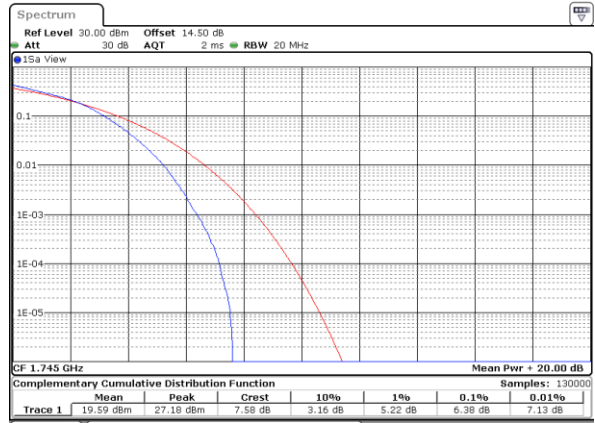
Date: 25.NOV.2022 16:48:09

Highest Channel / 1RB



Date: 25.NOV.2022 16:51:03

Highest Channel / Full RB

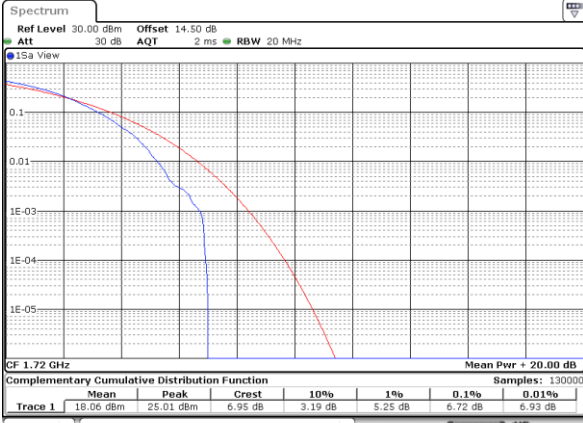


Date: 25.NOV.2022 16:52:38



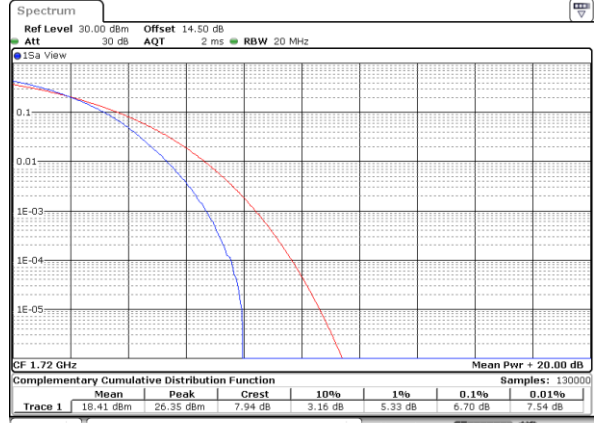
LTE Band 4 / 20MHz / 64QAM

Lowest Channel / 1RB



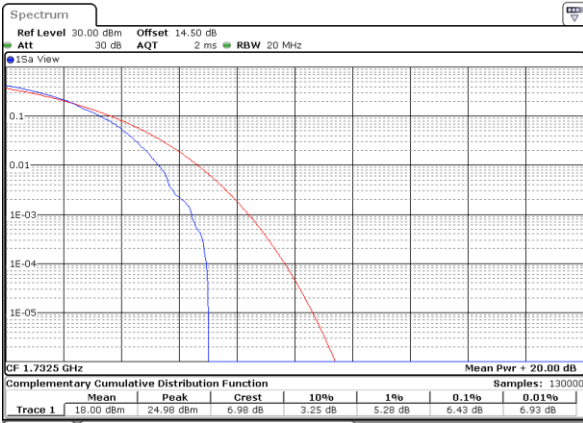
Date: 25.NOV.2022 16:43:01

Lowest Channel / Full RB



Date: 25.NOV.2022 16:43:32

Middle Channel / 1RB



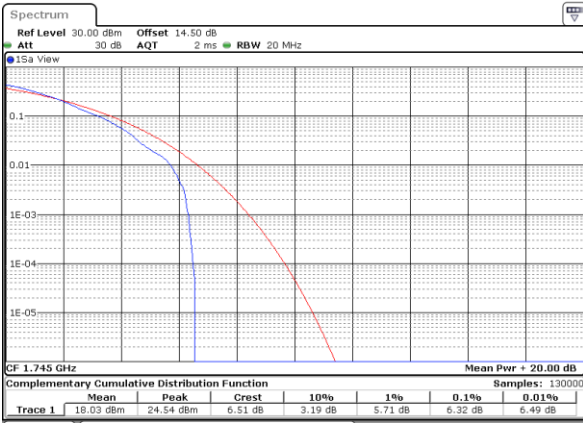
Date: 25.NOV.2022 16:49:26

Middle Channel / Full RB



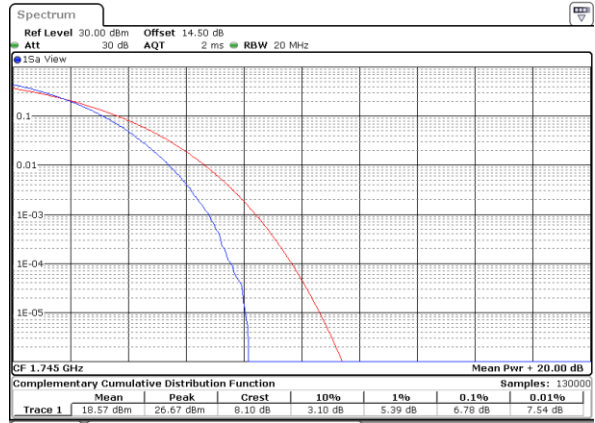
Date: 25.NOV.2022 16:48:46

Highest Channel / 1RB



Date: 25.NOV.2022 16:51:53

Highest Channel / Full RB



Date: 25.NOV.2022 16:52:16



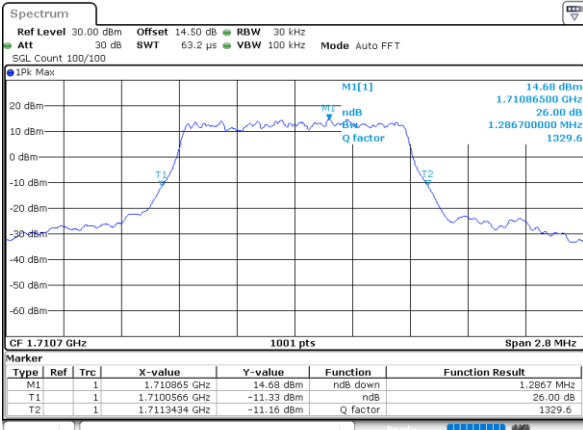
26dB Bandwidth

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	1.29	1.27	2.94	2.99	4.97	4.89	9.87	9.85	14.21	14.24	18.98	18.98
Middle CH	1.28	1.29	2.97	2.97	4.87	4.86	9.75	9.73	14.33	14.60	18.94	19.10
Highest CH	1.27	1.30	2.97	2.96	4.88	4.86	9.79	9.71	14.48	14.45	19.06	18.74
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	-	2.94	-	4.83	-	9.83	-	14.15	-	18.82	-
Middle CH	1.29	-	2.97	-	4.99	-	9.87	-	14.54	-	18.86	-
Highest CH	1.27	-	2.97	-	4.85	-	9.83	-	14.51	-	18.86	-



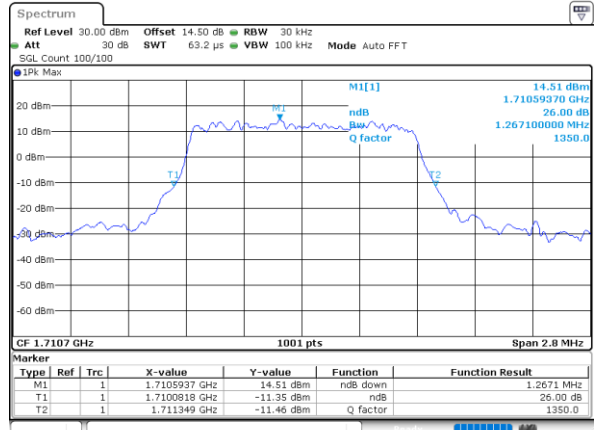
LTE Band 4

Lowest Channel / 1.4MHz / QPSK



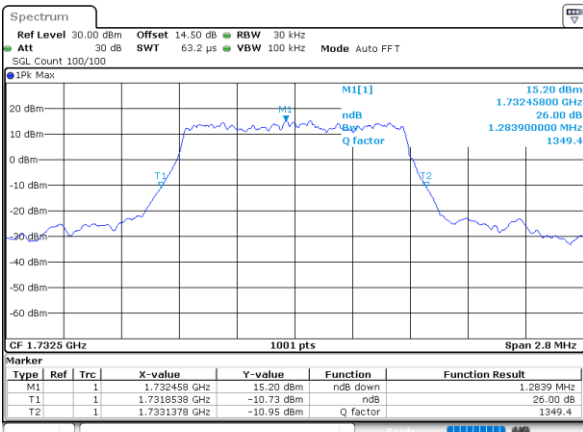
Date: 5,DEC,2022 18:16:08

Lowest Channel / 1.4MHz / 16QAM



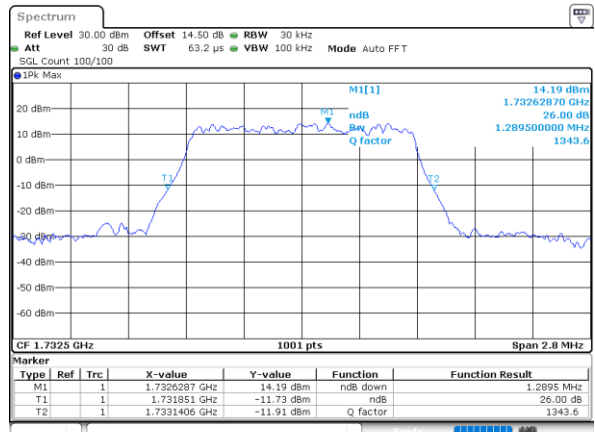
Date: 5,DEC,2022 18:16:32

Middle Channel / 1.4MHz / QPSK



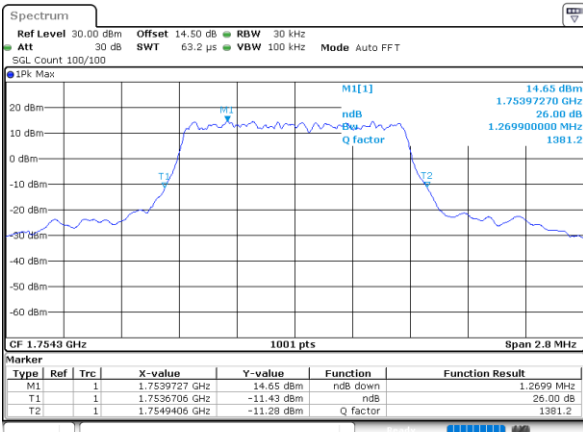
Date: 5,DEC,2022 18:26:36

Middle Channel / 1.4MHz / 16QAM



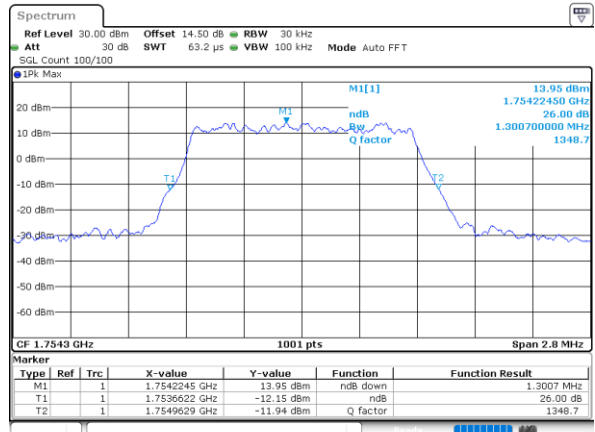
Date: 5,DEC,2022 18:27:00

Highest Channel / 1.4MHz / QPSK



Date: 5,DEC,2022 18:30:55

Highest Channel / 1.4MHz / 16QAM

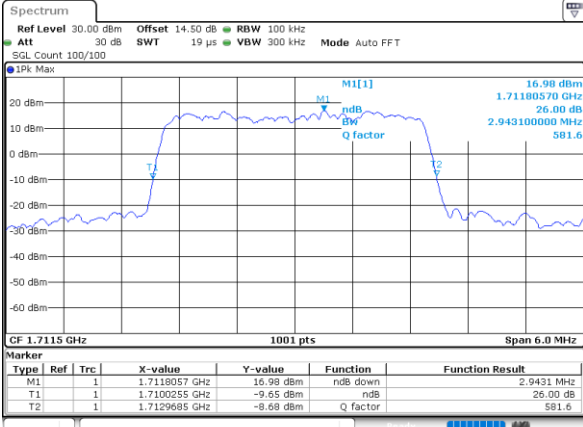


Date: 5,DEC,2022 18:31:19



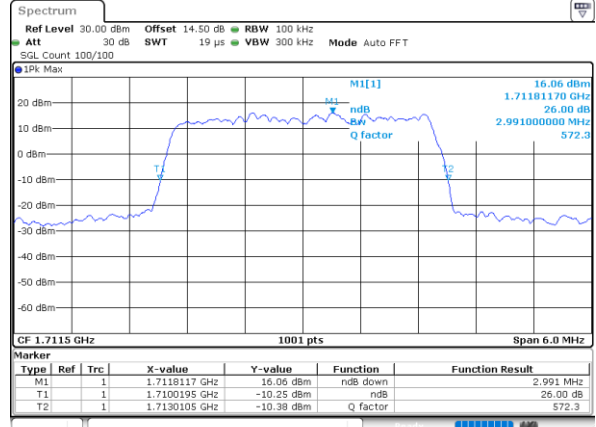
LTE Band 4

Lowest Channel / 3MHz / QPSK



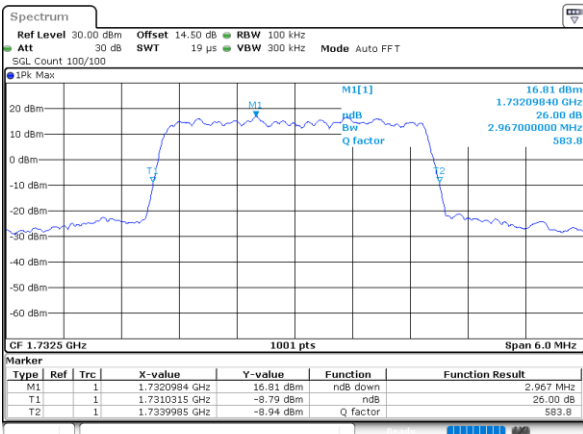
Date: 24.NOV.2022 09:59:05

Lowest Channel / 3MHz / 16QAM



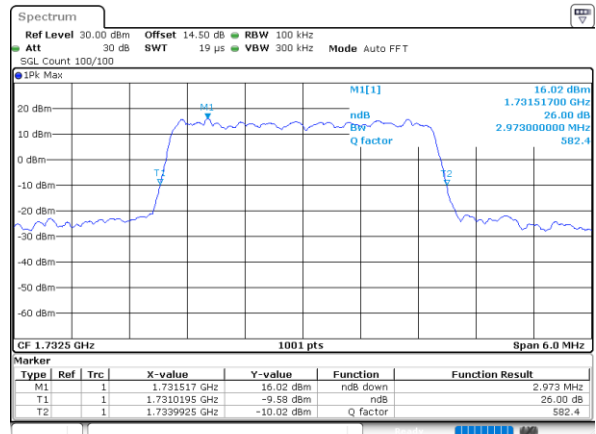
Date: 24.NOV.2022 09:59:29

Middle Channel / 3MHz / QPSK



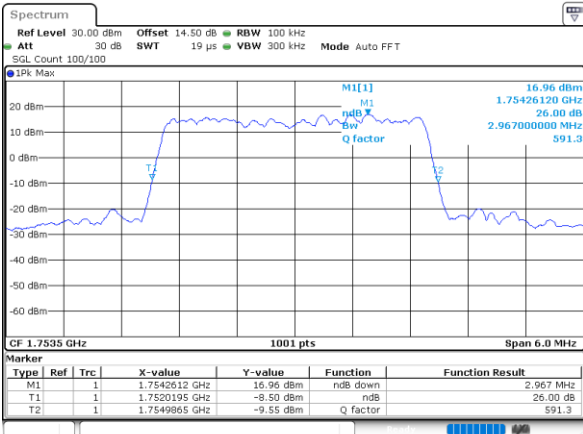
Date: 24.NOV.2022 10:08:24

Middle Channel / 3MHz / 16QAM



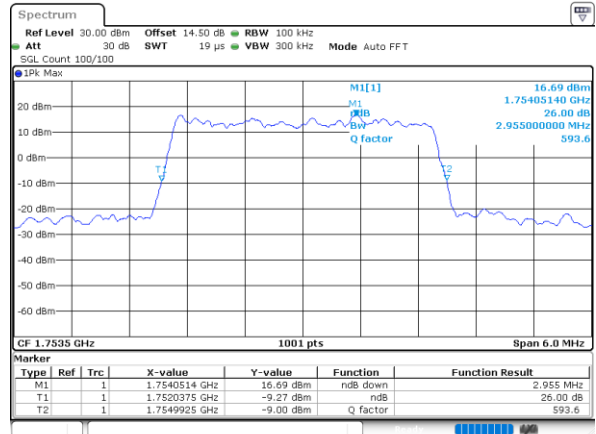
Date: 24.NOV.2022 10:08:47

Highest Channel / 3MHz / QPSK



Date: 24.NOV.2022 10:12:33

Highest Channel / 3MHz / 16QAM

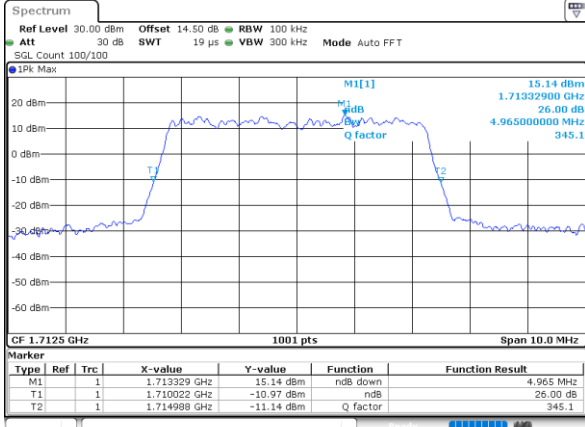


Date: 24.NOV.2022 10:12:57



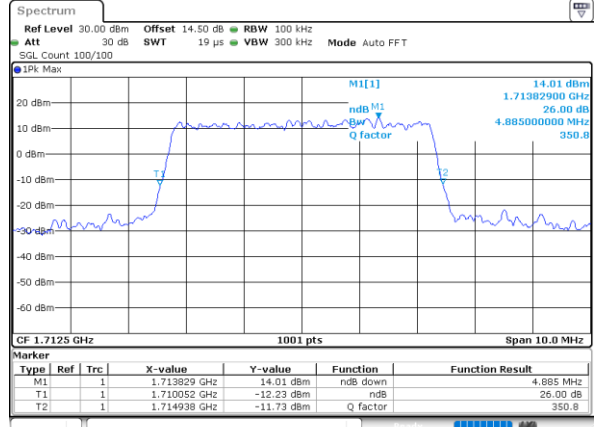
LTE Band 4

Lowest Channel / 5MHz / QPSK



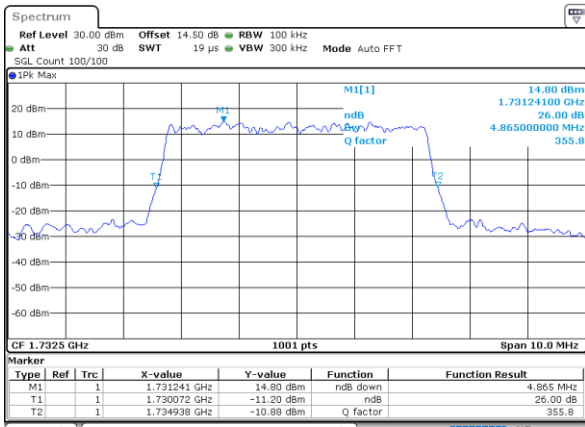
Date: 24.NOV.2022 10:21:54

Lowest Channel / 5MHz / 16QAM



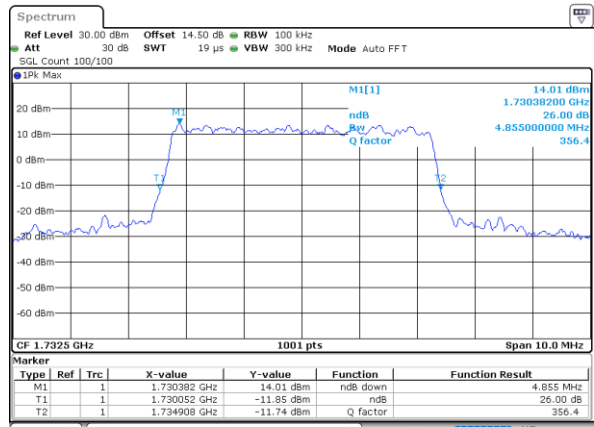
Date: 24.NOV.2022 10:22:18

Middle Channel / 5MHz / QPSK



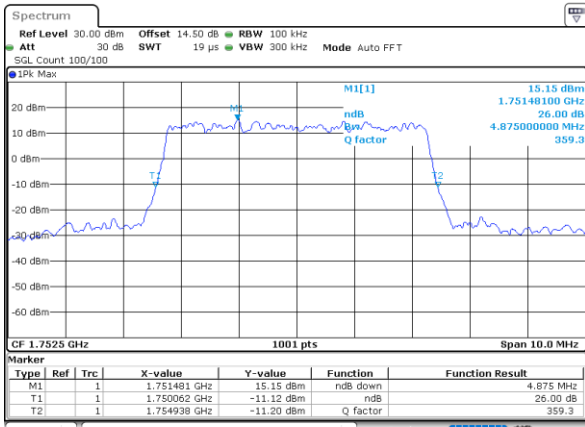
Date: 24.NOV.2022 10:31:13

Middle Channel / 5MHz / 16QAM



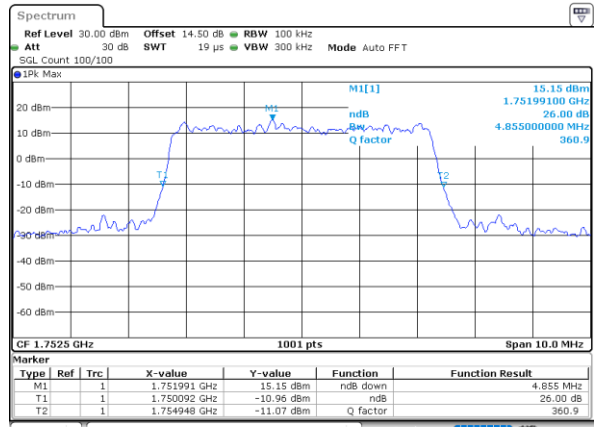
Date: 24.NOV.2022 10:31:36

Highest Channel / 5MHz / QPSK



Date: 24.NOV.2022 10:35:22

Highest Channel / 5MHz / 16QAM

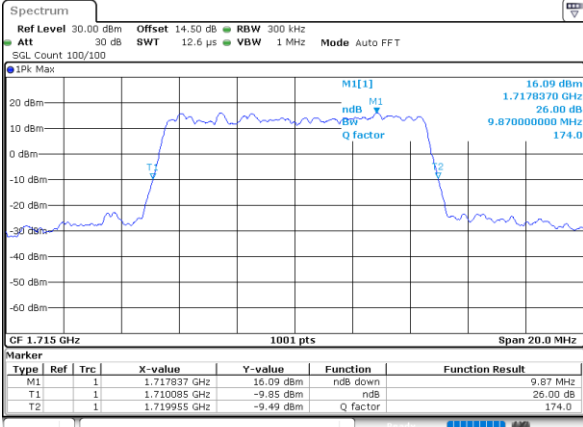


Date: 24.NOV.2022 10:35:46



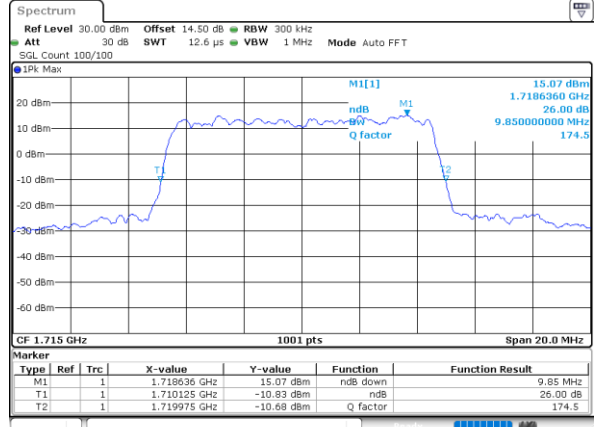
LTE Band 4

Lowest Channel / 10MHz / QPSK



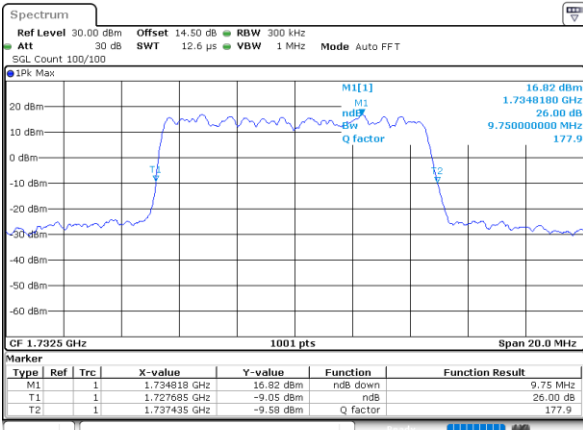
Date: 24.NOV.2022 10:44:42

Lowest Channel / 10MHz / 16QAM



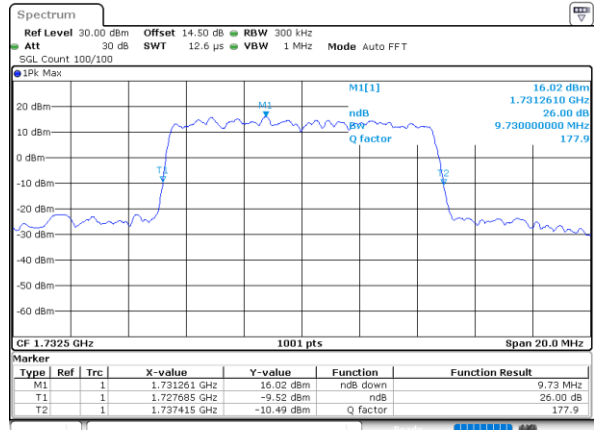
Date: 24.NOV.2022 10:45:06

Middle Channel / 10MHz / QPSK



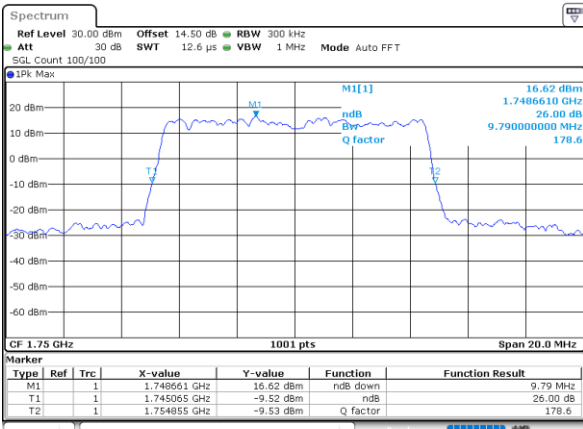
Date: 24.NOV.2022 10:54:00

Middle Channel / 10MHz / 16QAM



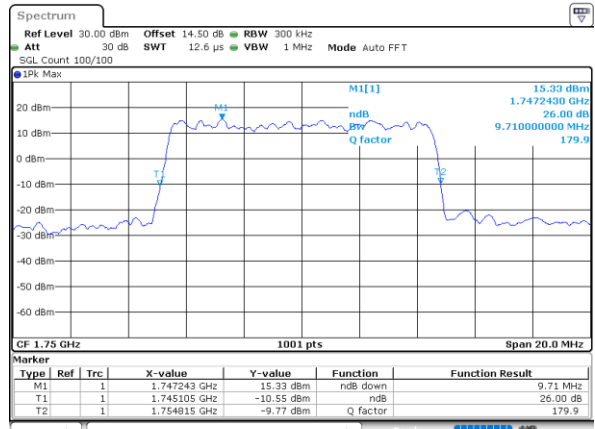
Date: 24.NOV.2022 10:54:23

Highest Channel / 10MHz / QPSK



Date: 24.NOV.2022 10:58:09

Highest Channel / 10MHz / 16QAM

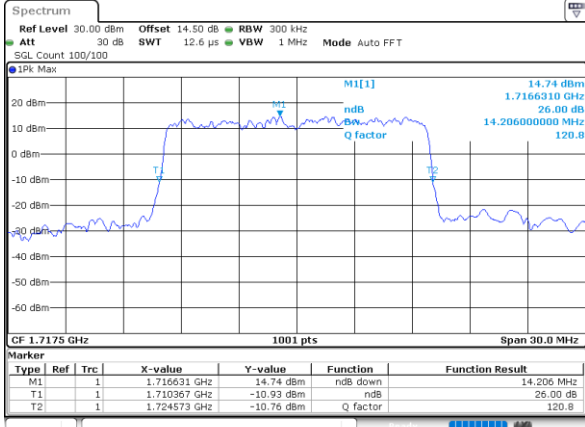


Date: 24.NOV.2022 10:58:34



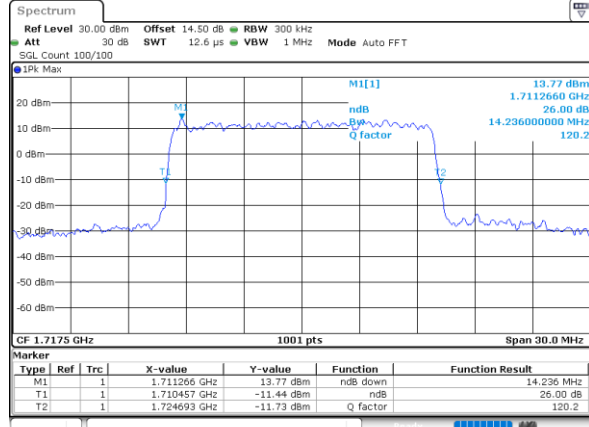
LTE Band 4

Lowest Channel / 15MHz / QPSK



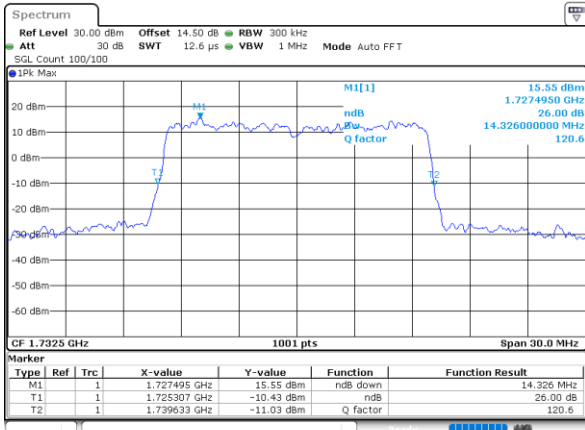
Date: 24.NOV.2022 11:07:13

Lowest Channel / 15MHz / 16QAM



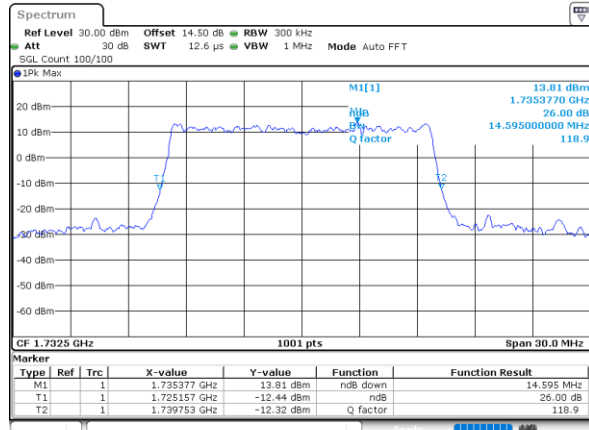
Date: 24.NOV.2022 11:07:55

Middle Channel / 15MHz / QPSK



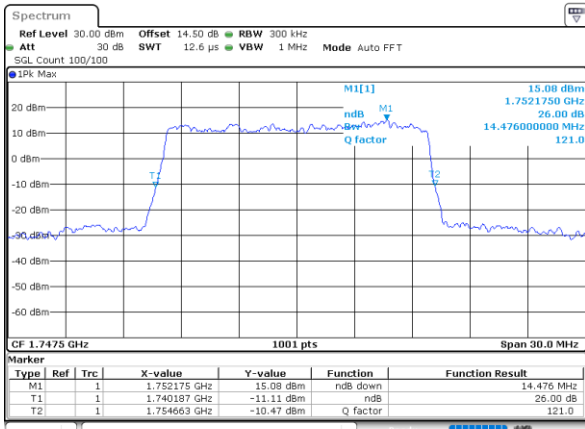
Date: 24.NOV.2022 11:16:41

Middle Channel / 15MHz / 16QAM



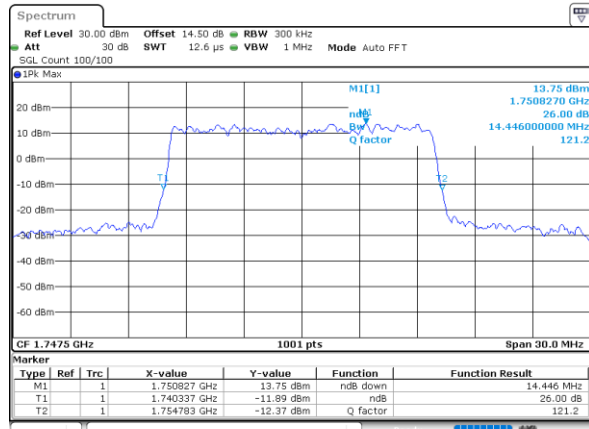
Date: 24.NOV.2022 11:17:05

Highest Channel / 15MHz / QPSK



Date: 24.NOV.2022 11:20:41

Highest Channel / 15MHz / 16QAM

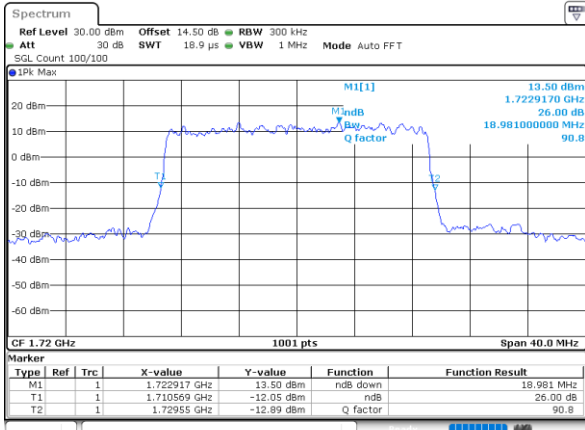


Date: 24.NOV.2022 11:21:05



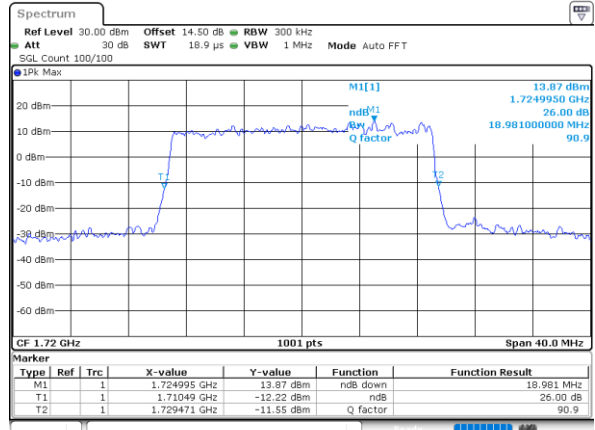
LTE Band 4

Lowest Channel / 20MHz / QPSK



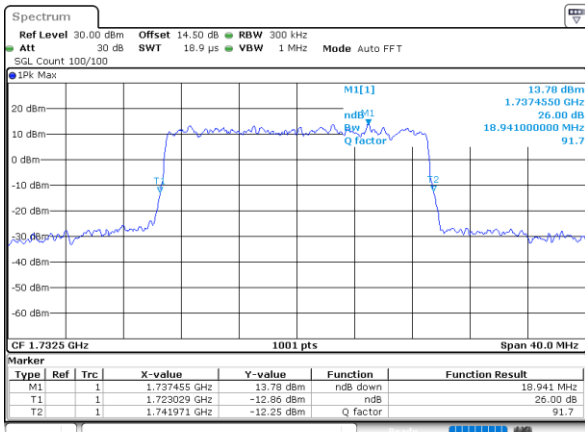
Date: 24.NOV.2022 11:28:02

Lowest Channel / 20MHz / 16QAM



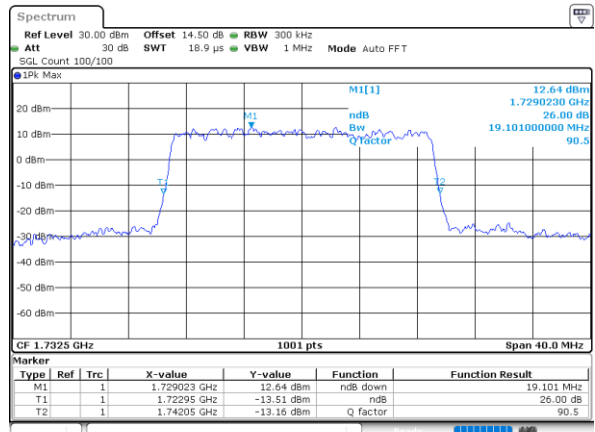
Date: 24.NOV.2022 11:28:26

Middle Channel / 20MHz / QPSK



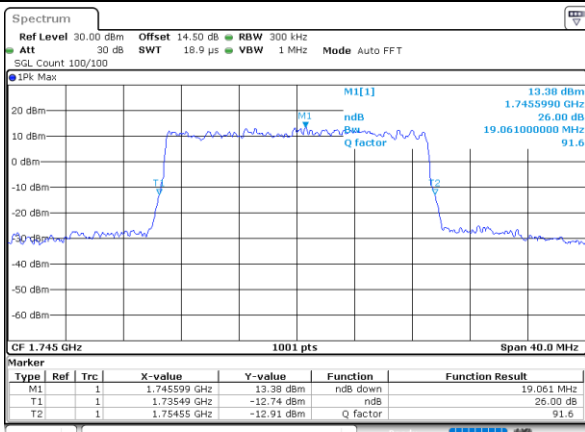
Date: 24.NOV.2022 11:35:11

Middle Channel / 20MHz / 16QAM



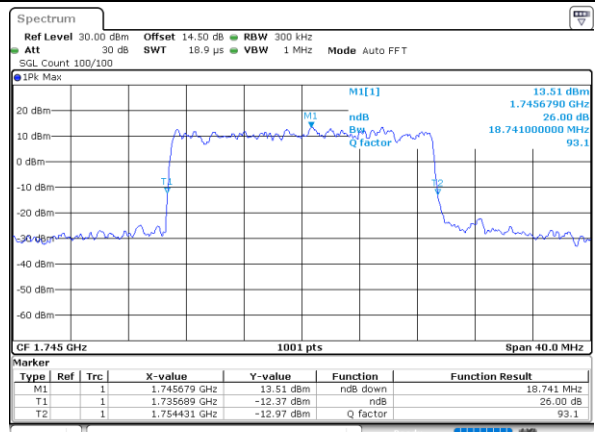
Date: 24.NOV.2022 11:35:34

Highest Channel / 20MHz / QPSK



Date: 24.NOV.2022 11:38:46

Highest Channel / 20MHz / 16QAM



Date: 24.NOV.2022 11:39:10