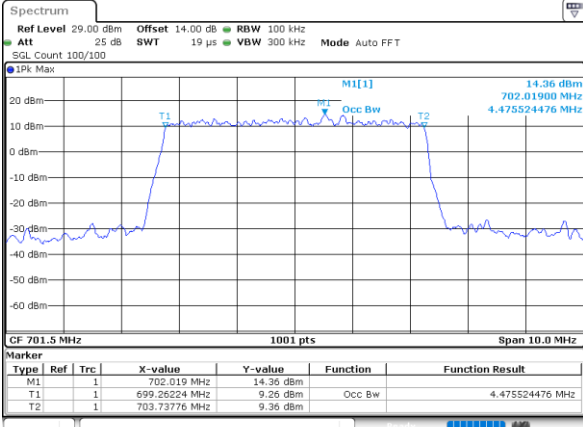




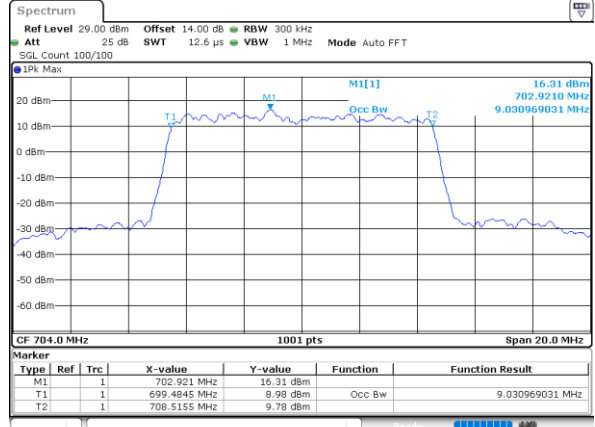
LTE Band 12

Lowest Channel / 5MHz / 64QAM



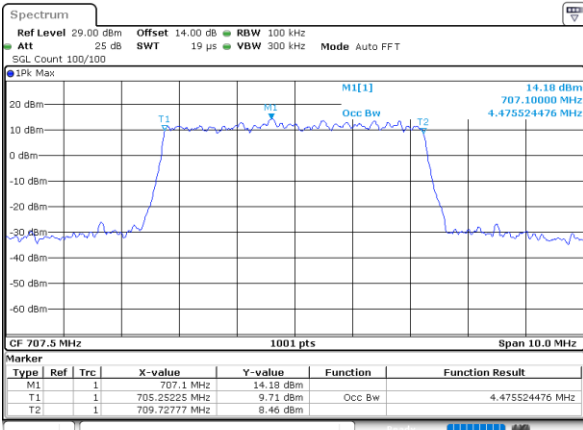
Date: 23. DEC. 2021 00:46:33

Lowest Channel / 10MHz / 64QAM



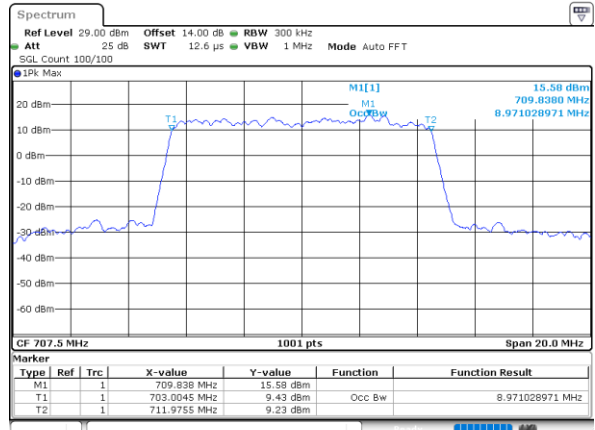
Date: 23. DEC. 2021 01:24:25

Middle Channel / 5MHz / 64QAM



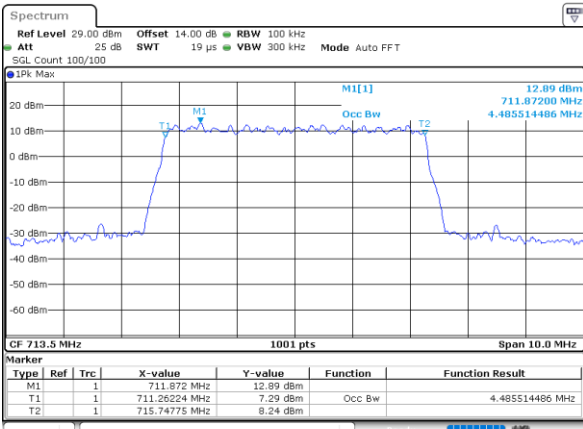
Date: 23. DEC. 2021 00:49:42

Middle Channel / 10MHz / 64QAM



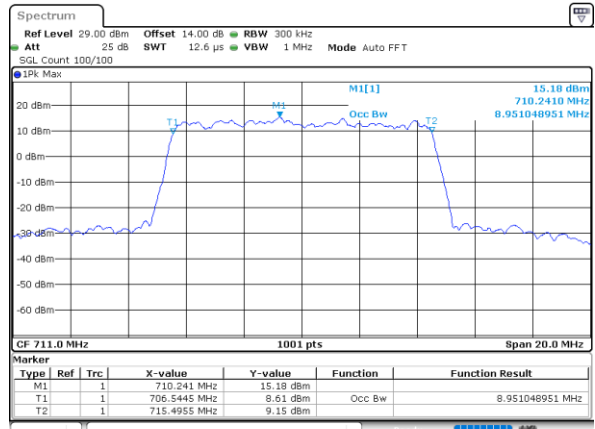
Date: 23. DEC. 2021 01:27:34

Highest Channel / 5MHz / 64QAM



Date: 23. DEC. 2021 00:50:53

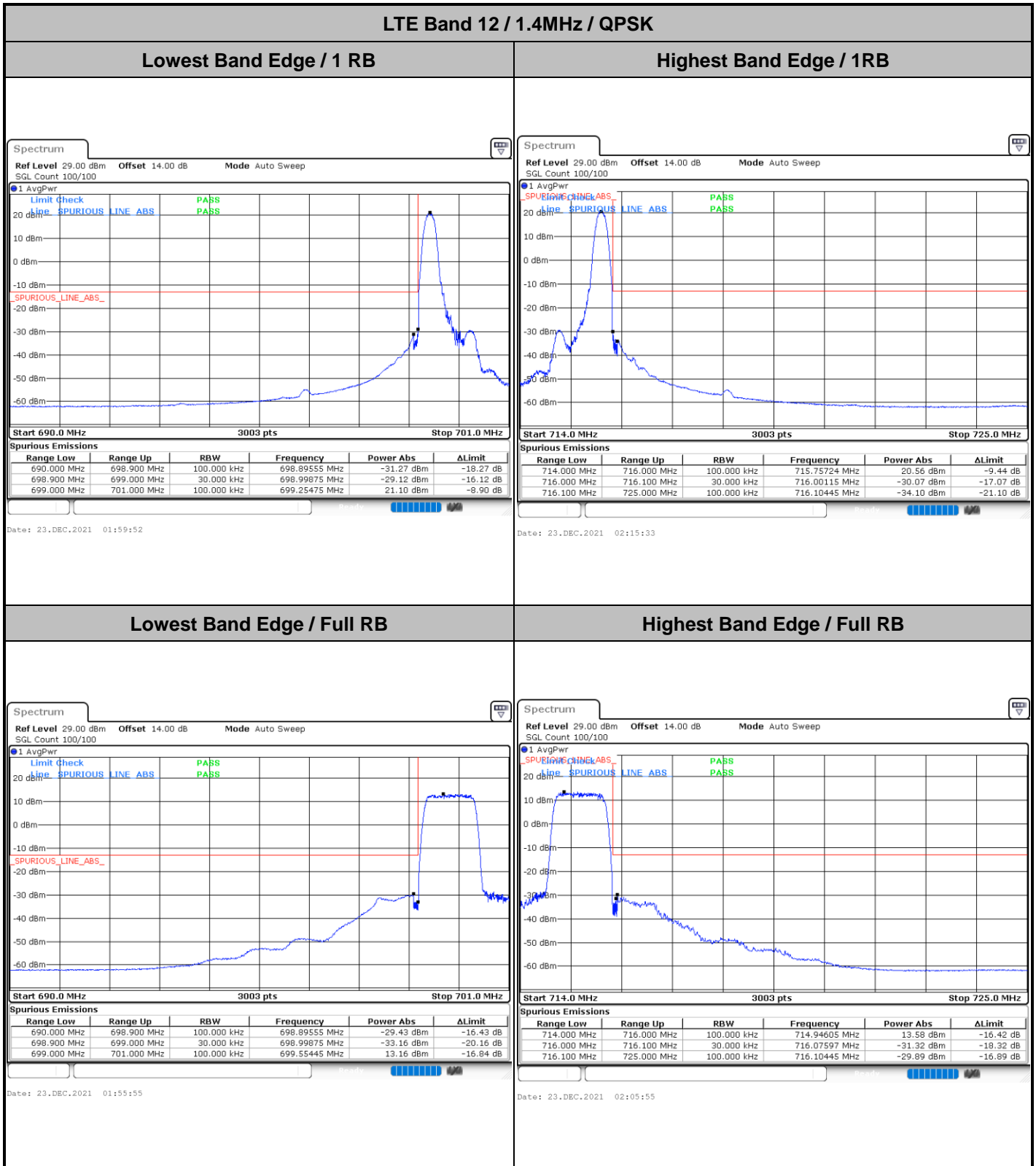
Highest Channel / 10MHz / 64QAM



Date: 23. DEC. 2021 01:49:54



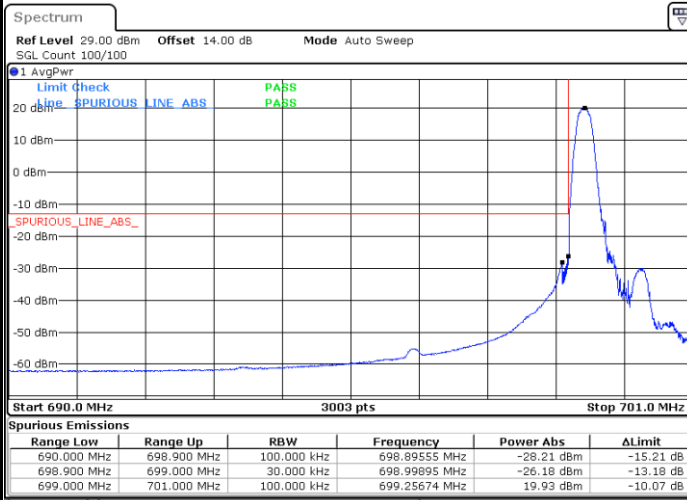
Conducted Band Edge





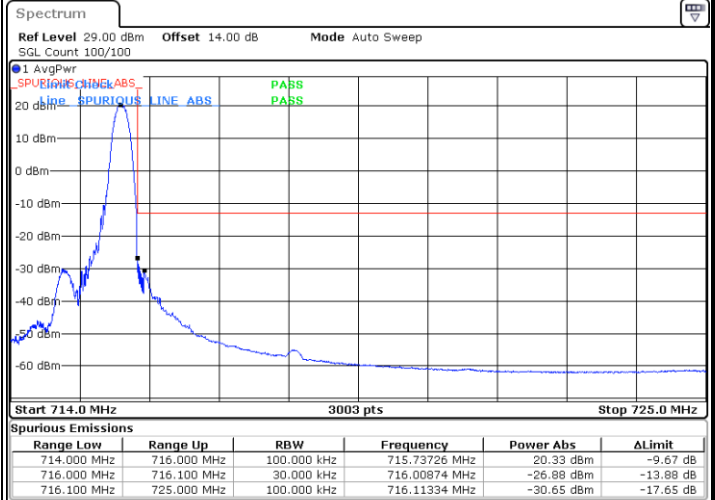
LTE Band 12 / 1.4MHz / 16QAM

Lowest Band Edge / 1 RB



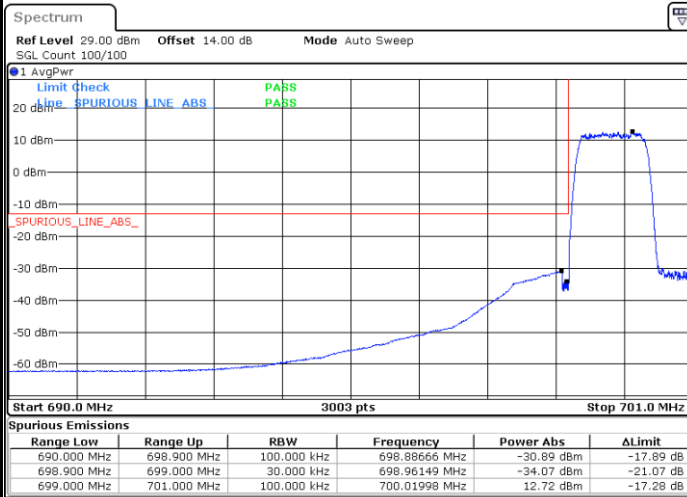
Date: 23.DEC.2021 01:58:33

Highest Band Edge / 1 RB



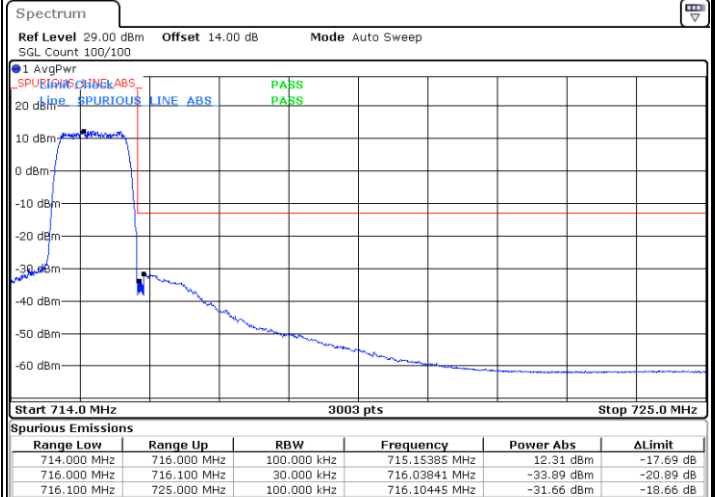
Date: 23.DEC.2021 02:14:14

Lowest Band Edge / Full RB



Date: 23.DEC.2021 01:57:14

Highest Band Edge / Full RB

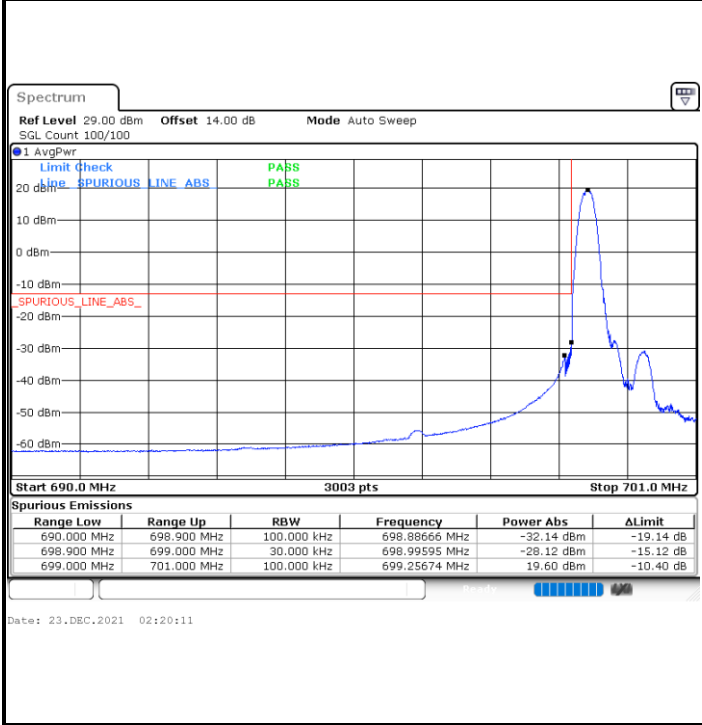


Date: 23.DEC.2021 02:12:55

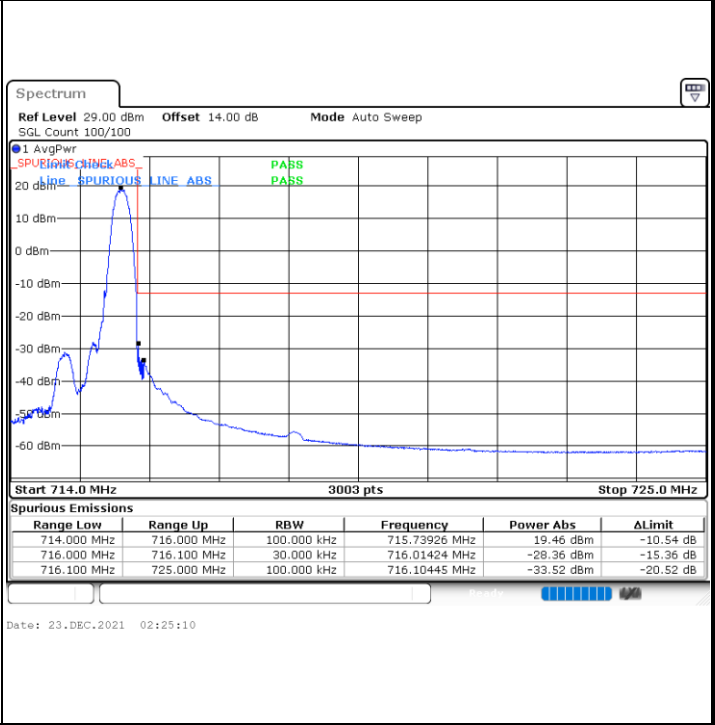


LTE Band 12 / 1.4MHz / 64QAM

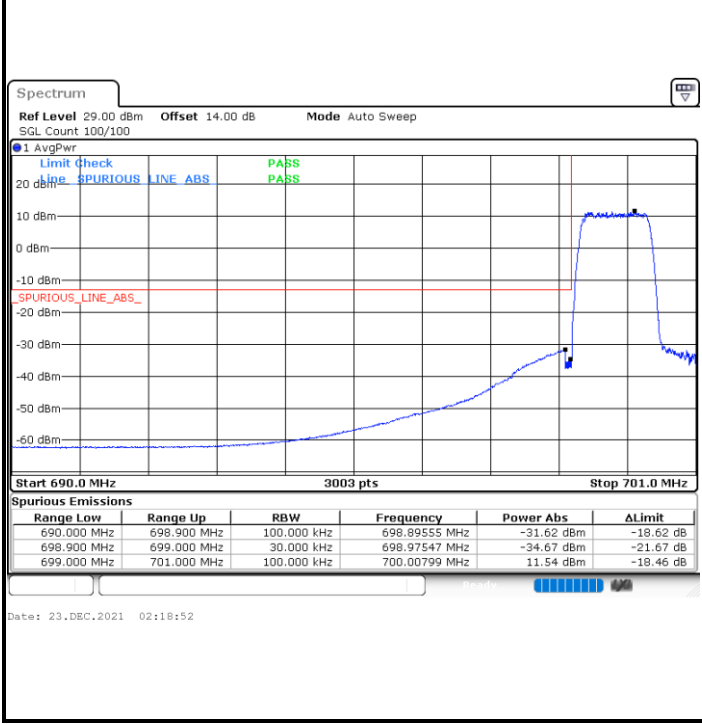
Lowest Band Edge / 1 RB



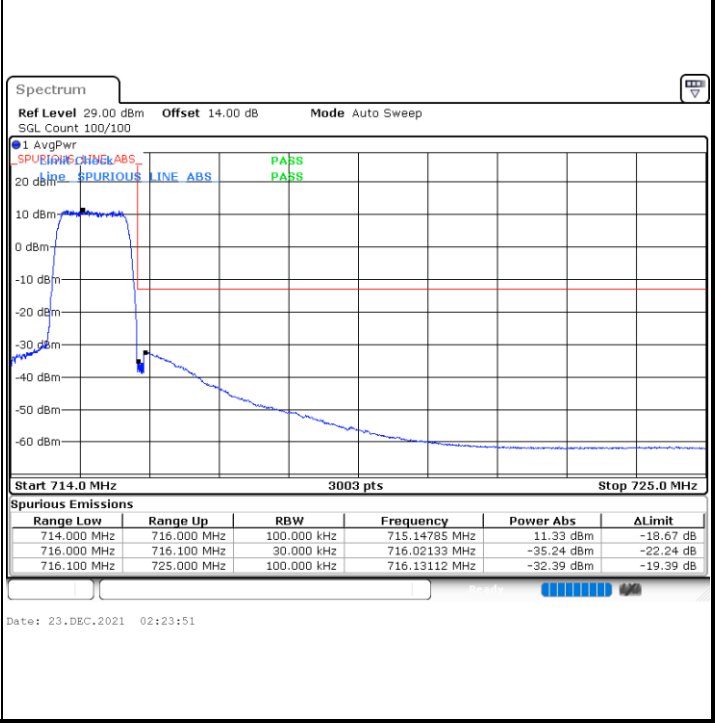
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



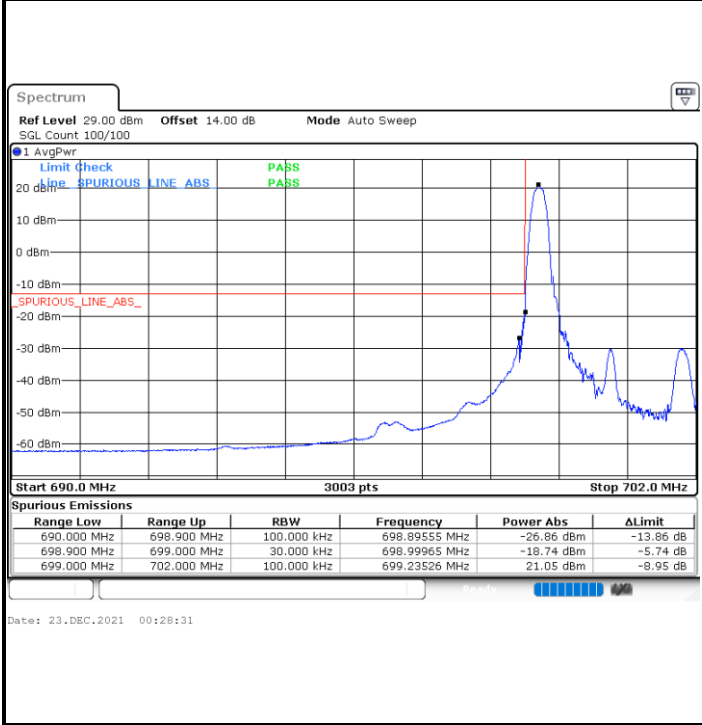
Highest Band Edge / Full RB



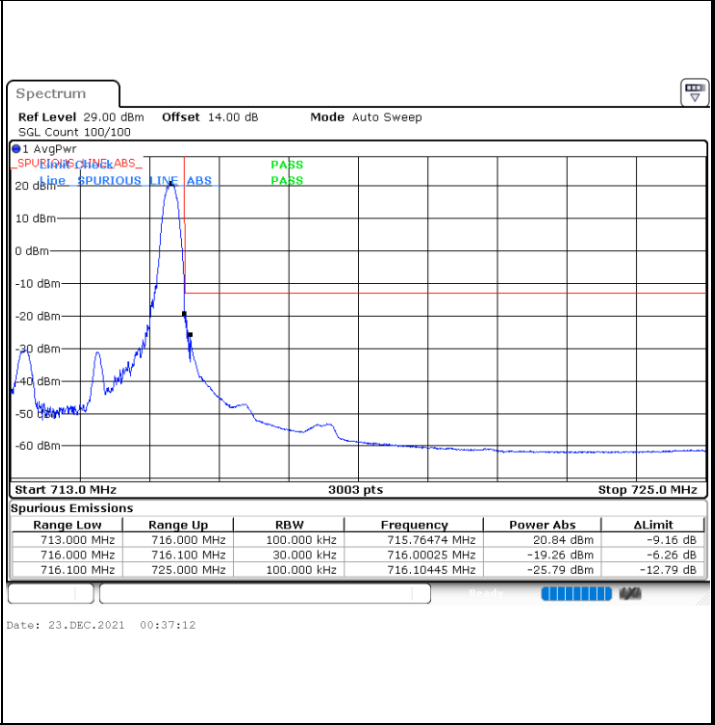


LTE Band 12 / 3MHz / QPSK

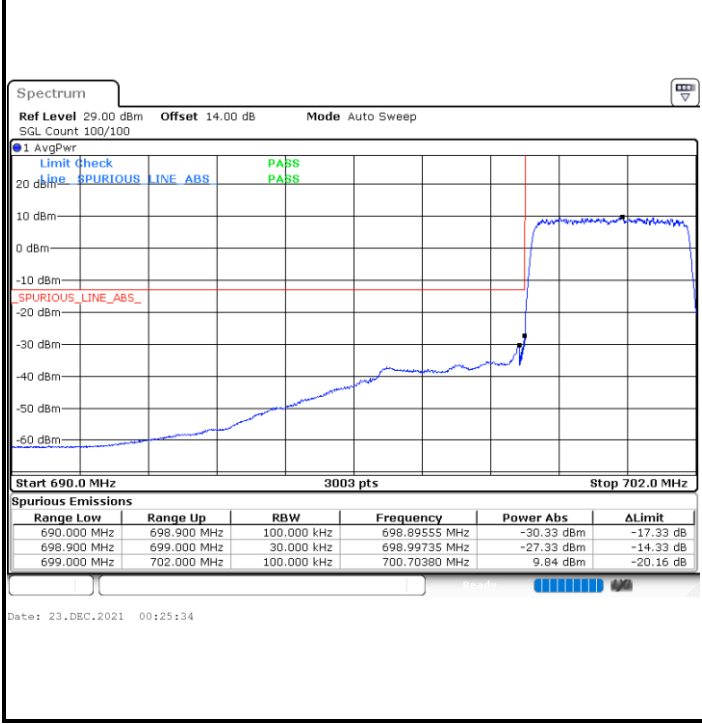
Lowest Band Edge / 1RB



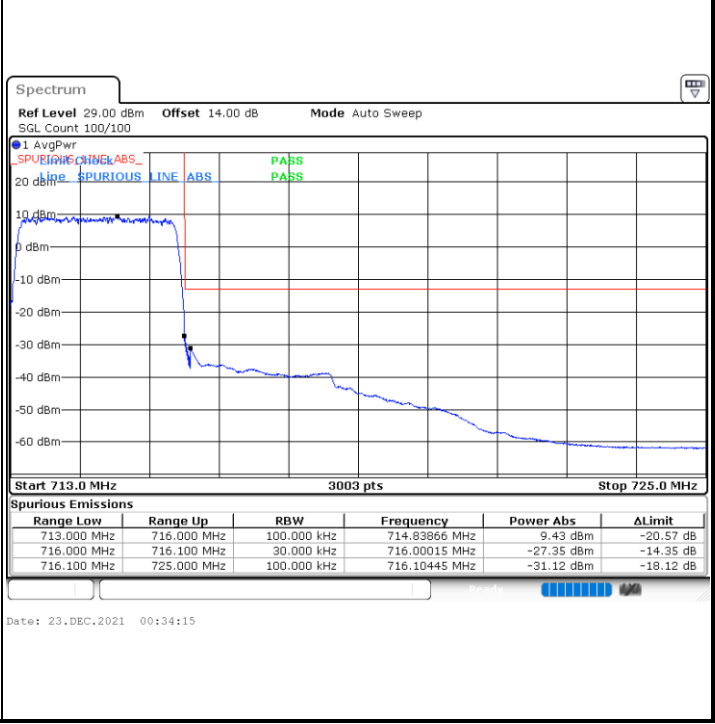
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB



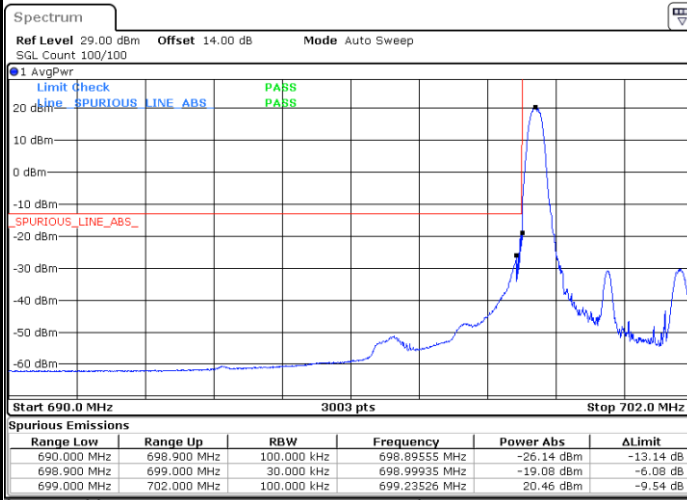
Highest Band Edge / Full RB





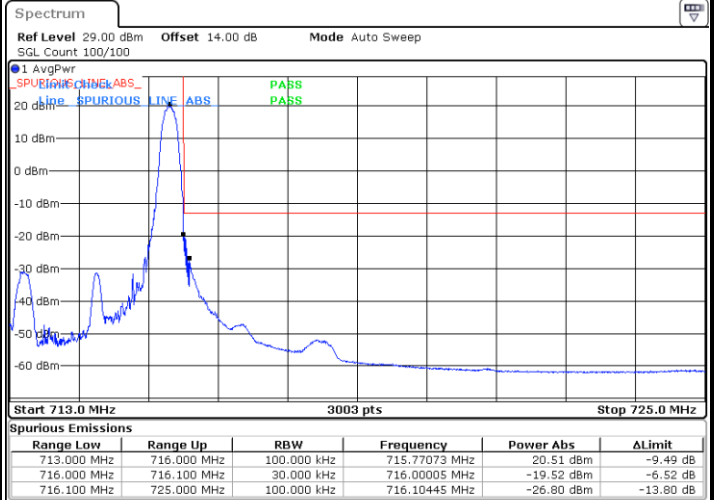
LTE Band 12 / 3MHz / 16QAM

Lowest Band Edge / 1 RB



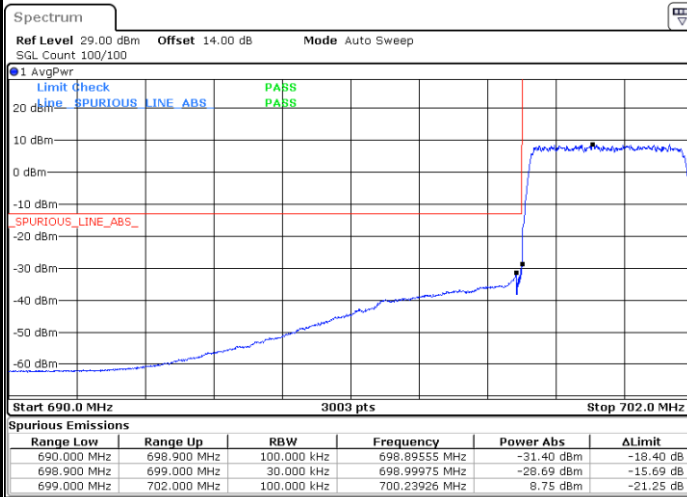
Date: 23.DEC.2021 00:27:32

Highest Band Edge / 1 RB



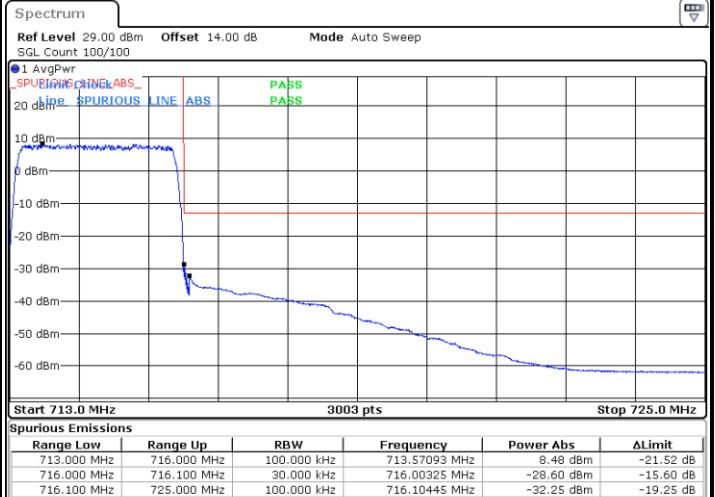
Date: 23.DEC.2021 00:36:13

Lowest Band Edge / Full RB



Date: 23.DEC.2021 00:26:33

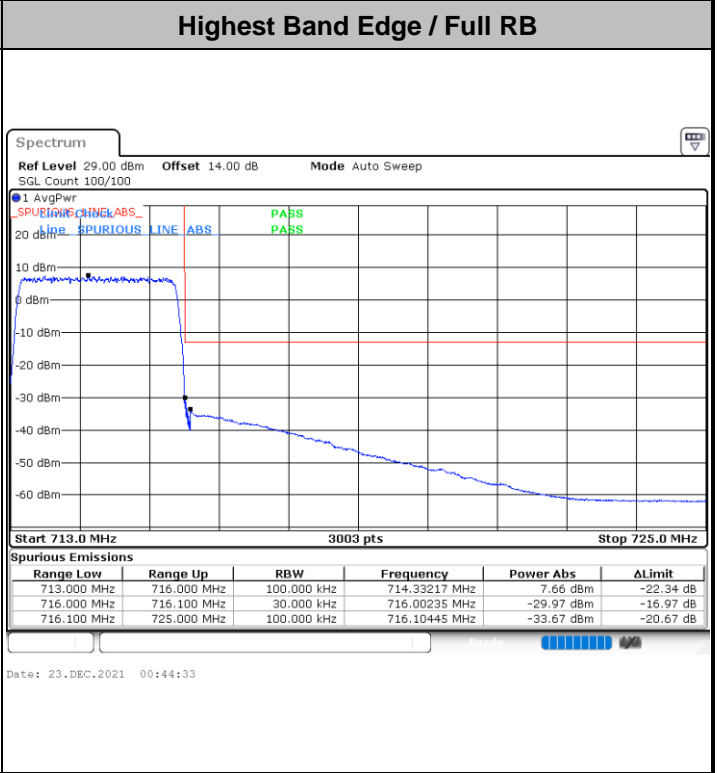
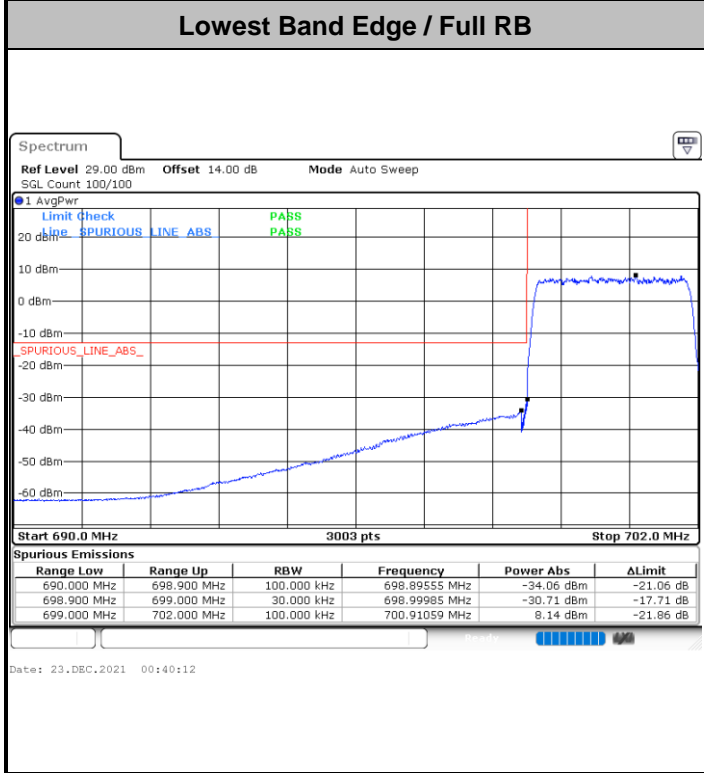
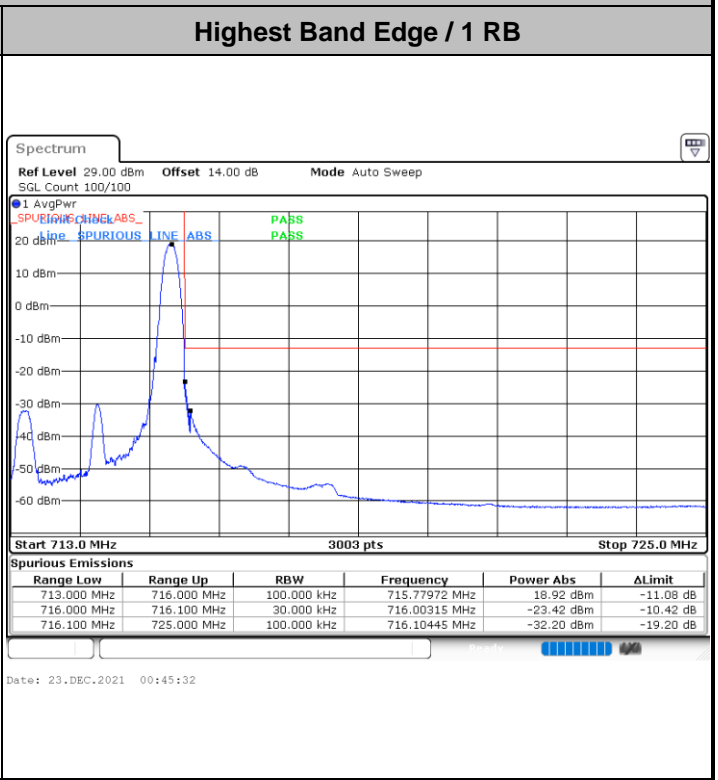
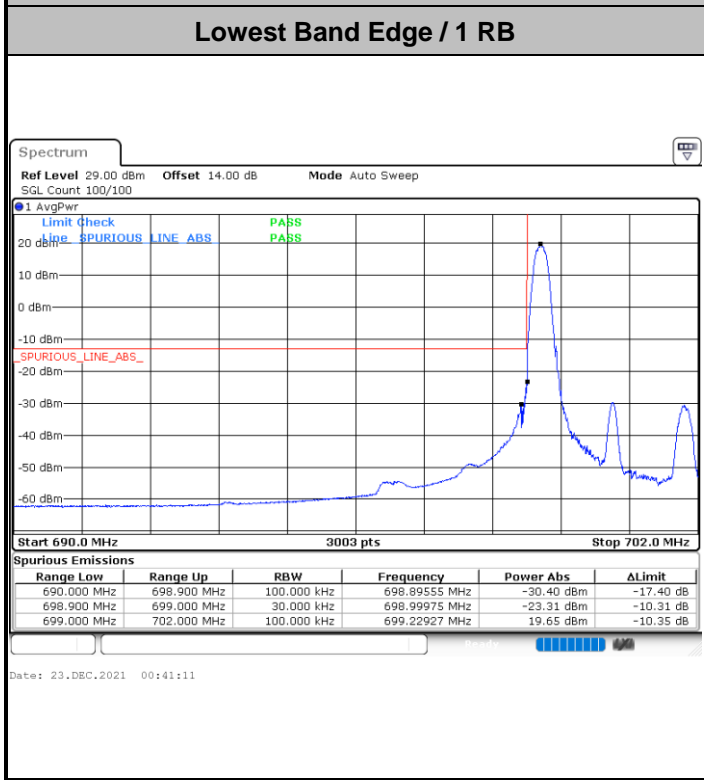
Highest Band Edge / Full RB



Date: 23.DEC.2021 00:35:14



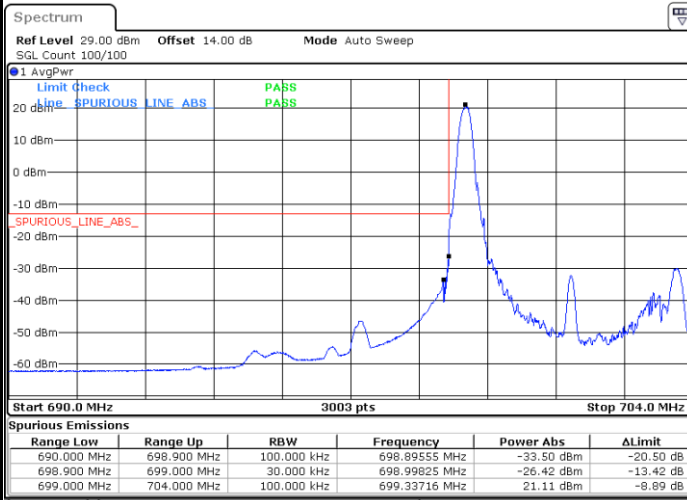
LTE Band 12 / 3MHz / 64QAM





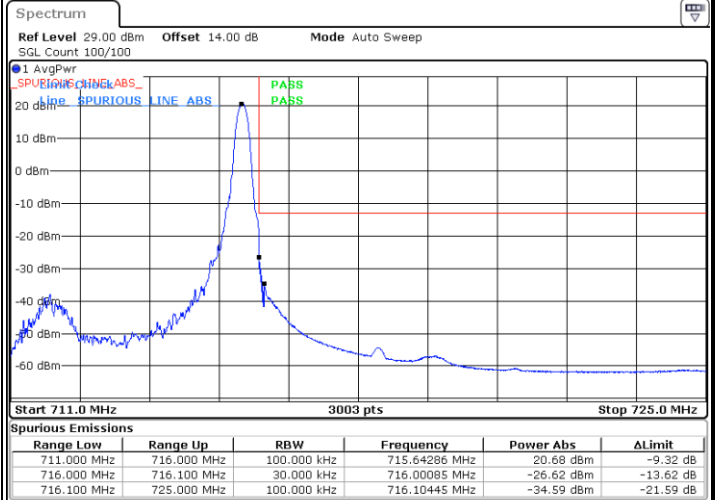
LTE Band 12 / 5MHz / QPSK

Lowest Band Edge / 1 RB



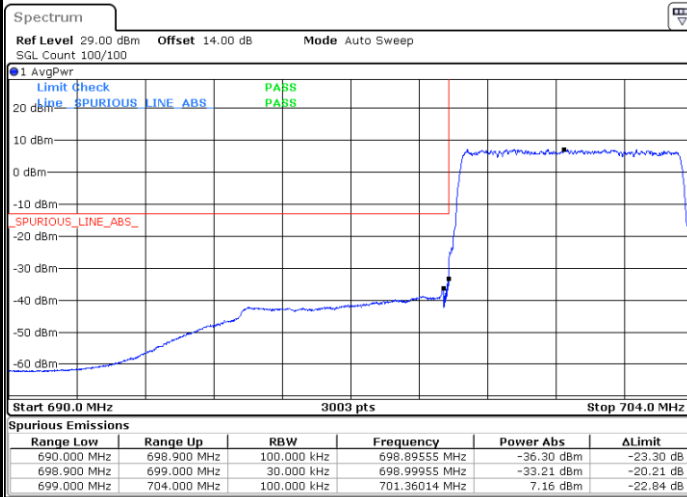
Date: 23.DEC.2021 00:58:31

Highest Band Edge / 1 RB



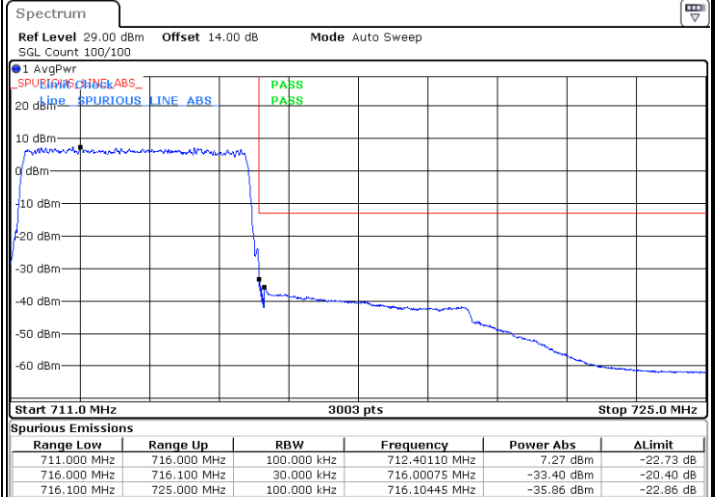
Date: 23.DEC.2021 01:06:13

Lowest Band Edge / Full RB



Date: 23.DEC.2021 00:55:34

Highest Band Edge / Full RB

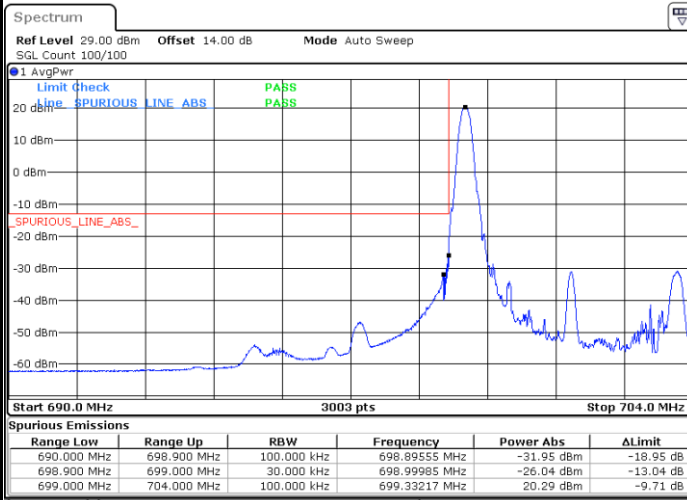


Date: 23.DEC.2021 01:04:15



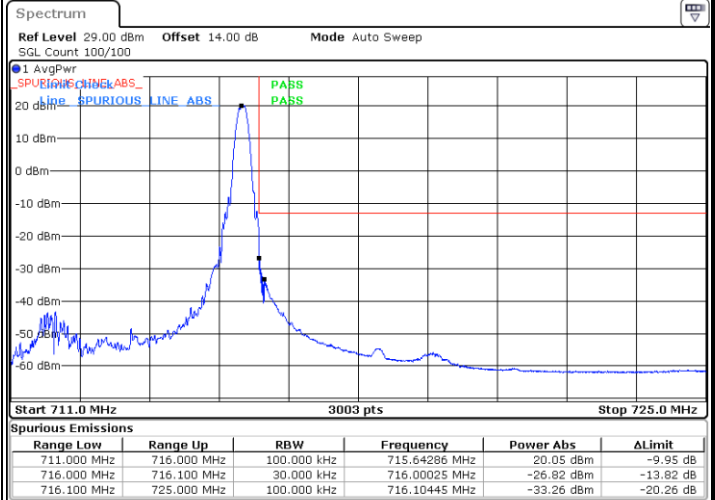
LTE Band 12 / 5MHz / 16QAM

Lowest Band Edge / 1RB



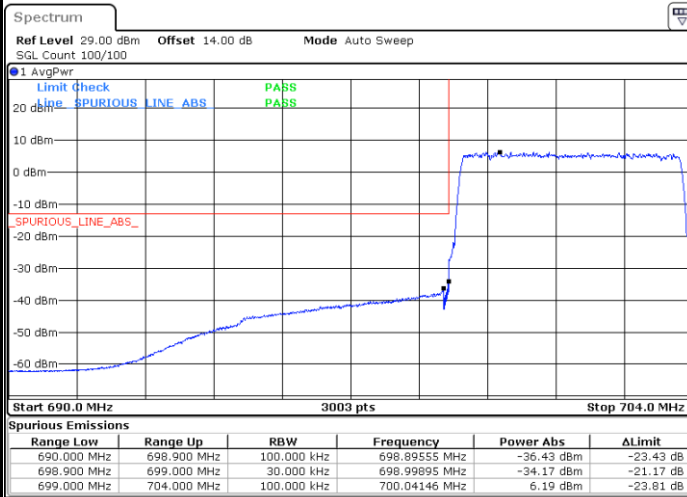
Date: 23.DEC.2021 00:57:32

Highest Band Edge / 1 RB



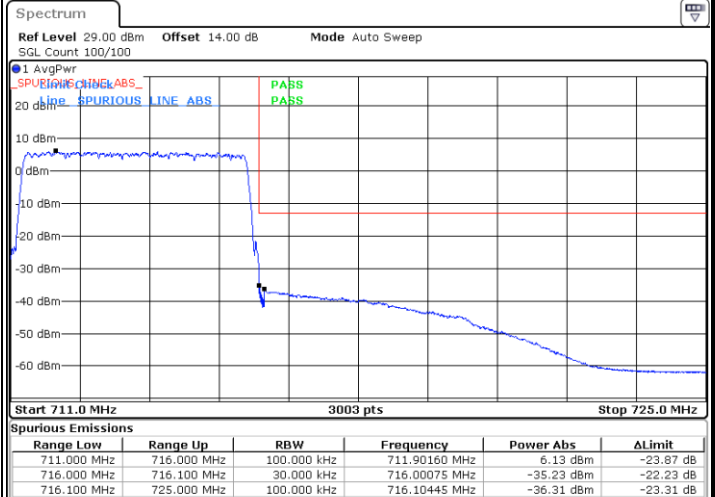
Date: 23.DEC.2021 01:07:12

Lowest Band Edge / Full RB



Date: 23.DEC.2021 00:56:33

Highest Band Edge / Full RB

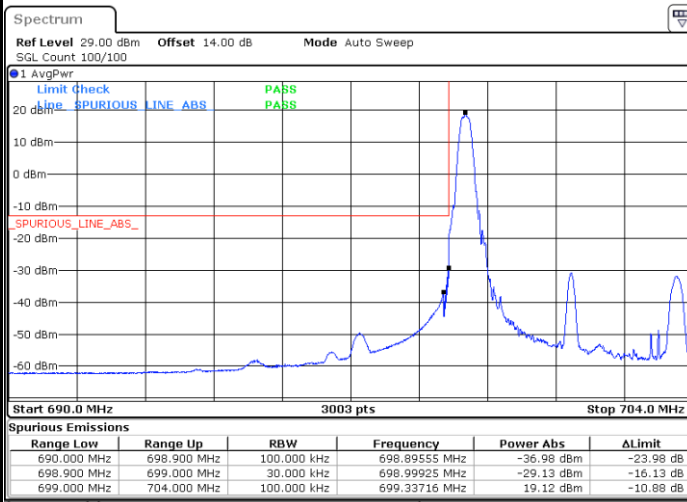


Date: 23.DEC.2021 01:05:14



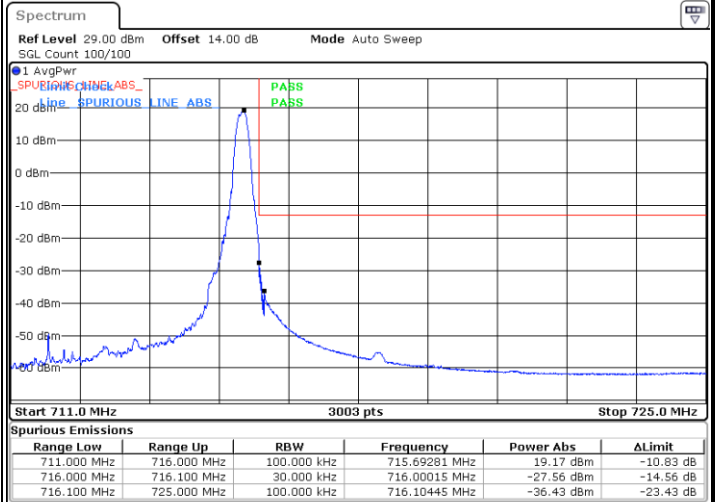
LTE Band 12 / 5MHz / 64QAM

Lowest Band Edge / 1RB



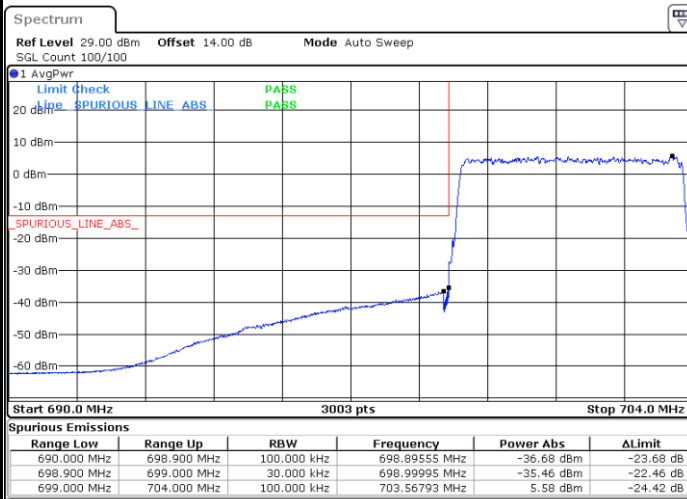
Date: 23.DEC.2021 00:48:41

Highest Band Edge / 1 RB



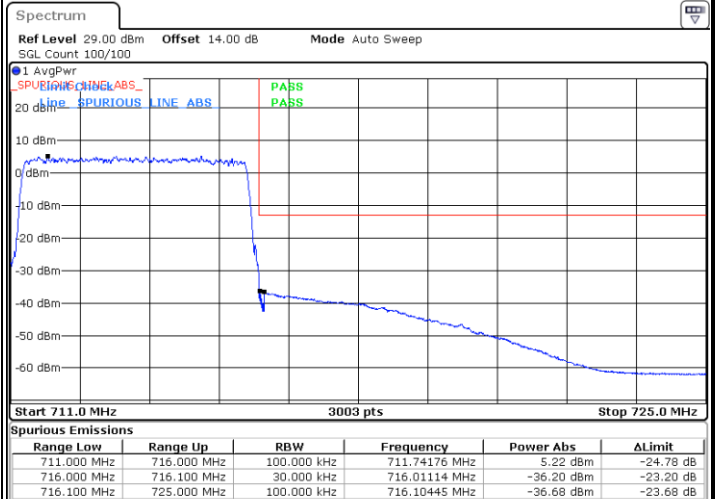
Date: 23.DEC.2021 00:53:02

Lowest Band Edge / Full RB



Date: 23.DEC.2021 00:47:42

Highest Band Edge / Full RB

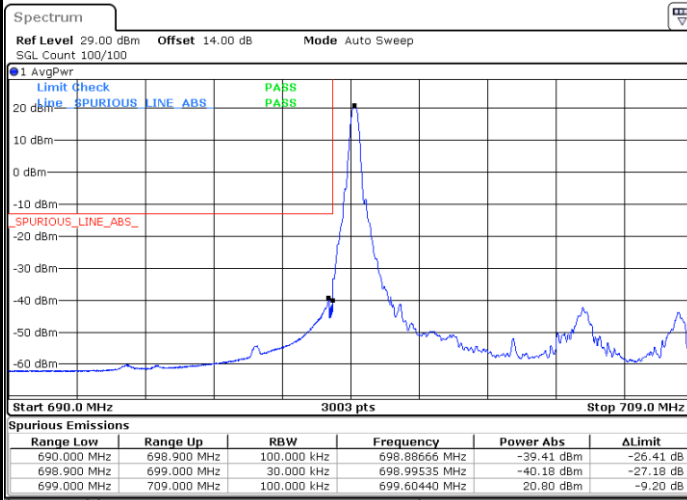


Date: 23.DEC.2021 00:52:03



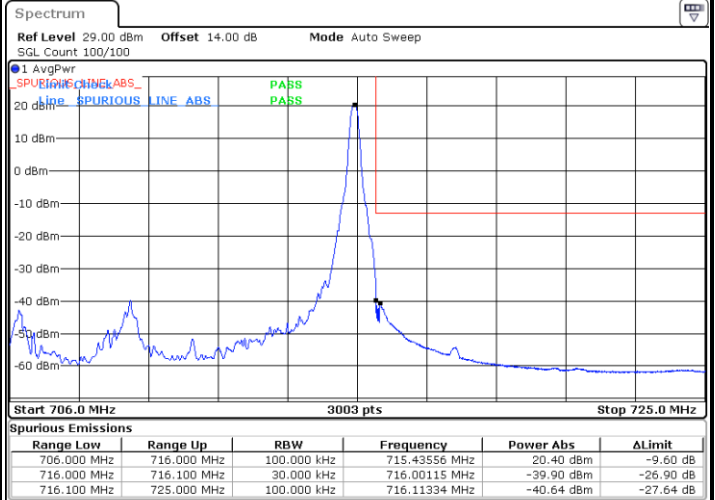
LTE Band 12 / 10MHz / QPSK

Lowest Band Edge / 1 RB



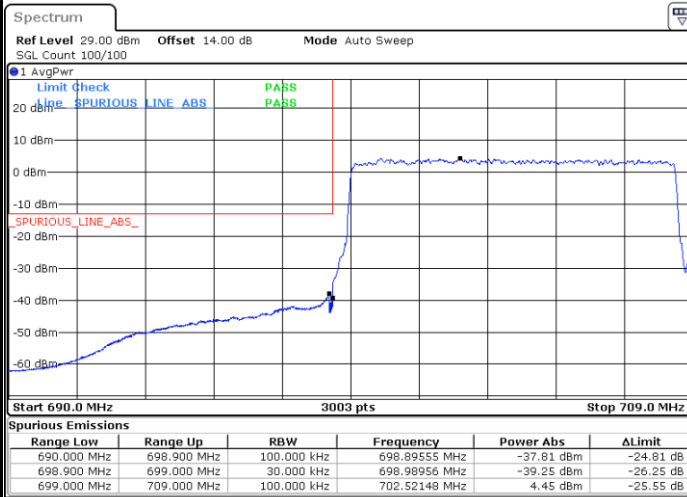
Date: 23.DEC.2021 01:13:54

Highest Band Edge / 1 RB



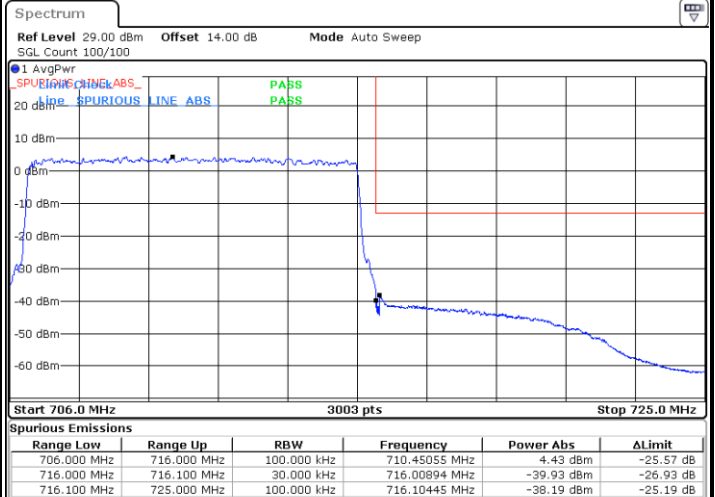
Date: 23.DEC.2021 01:22:35

Lowest Band Edge / Full RB



Date: 23.DEC.2021 01:10:34

Highest Band Edge / Full RB

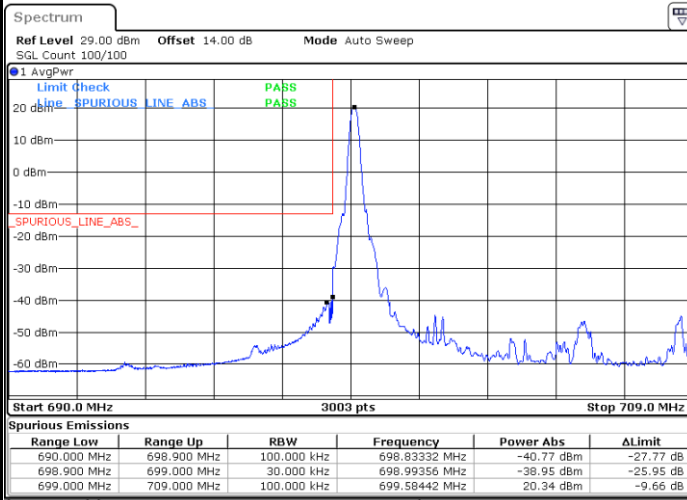


Date: 23.DEC.2021 01:19:38



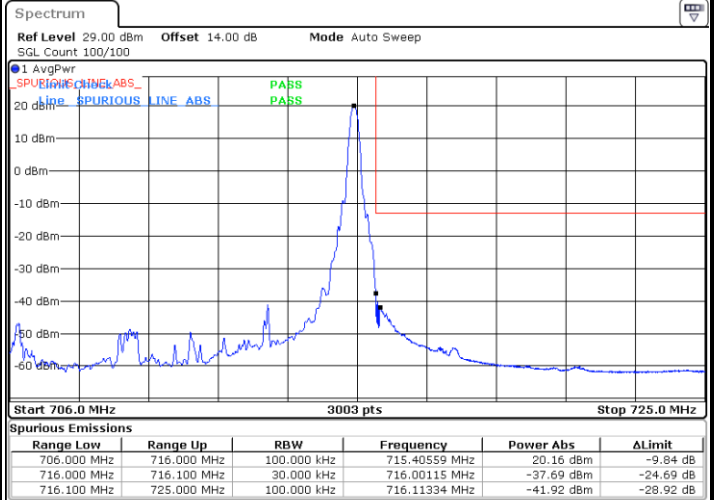
LTE Band 12 / 10MHz / 16QAM

Lowest Band Edge / 1 RB



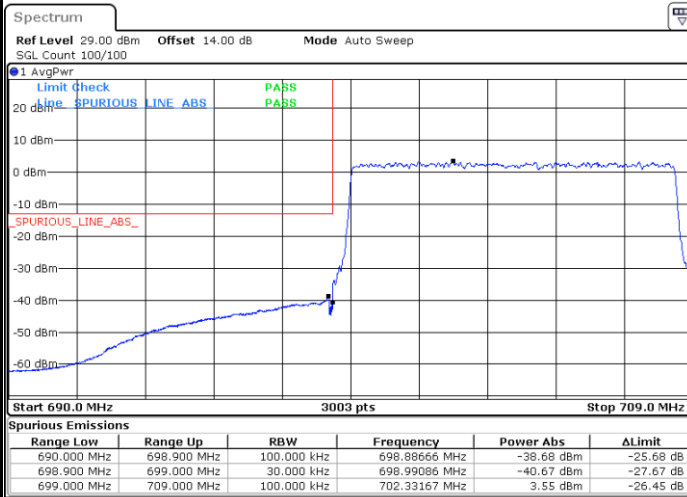
Date: 23.DEC.2021 01:12:55

Highest Band Edge / 1 RB



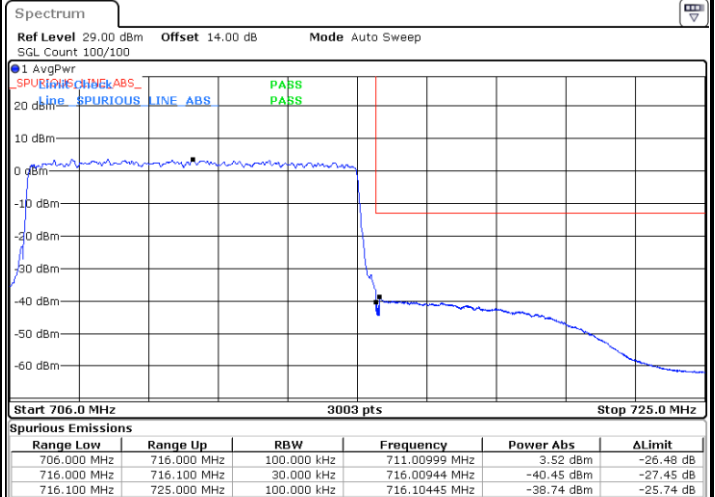
Date: 23.DEC.2021 01:21:36

Lowest Band Edge / Full RB



Date: 23.DEC.2021 01:11:56

Highest Band Edge / Full RB

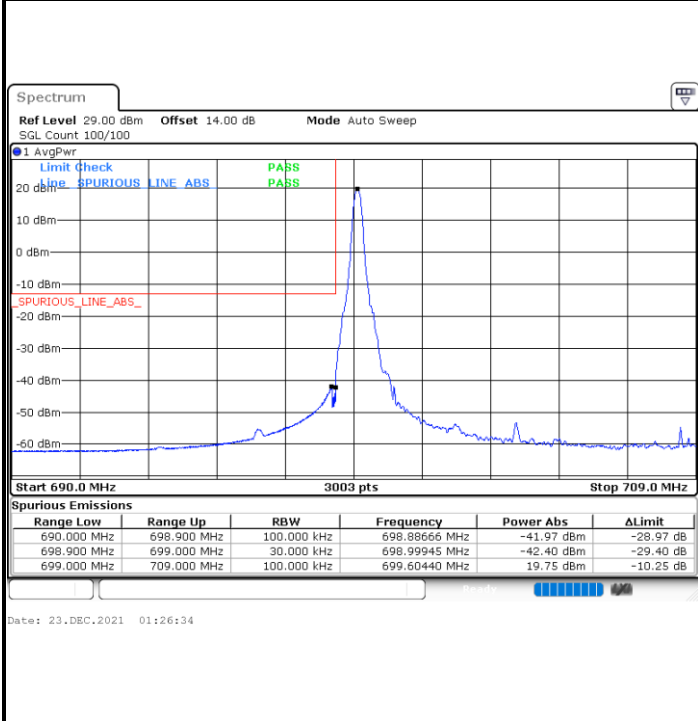


Date: 23.DEC.2021 01:20:37

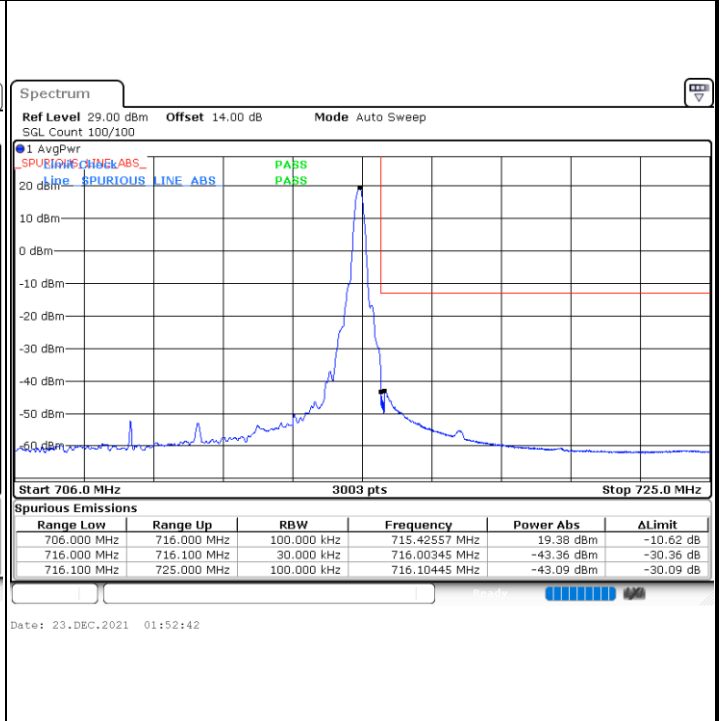


LTE Band 12 / 10MHz / 64QAM

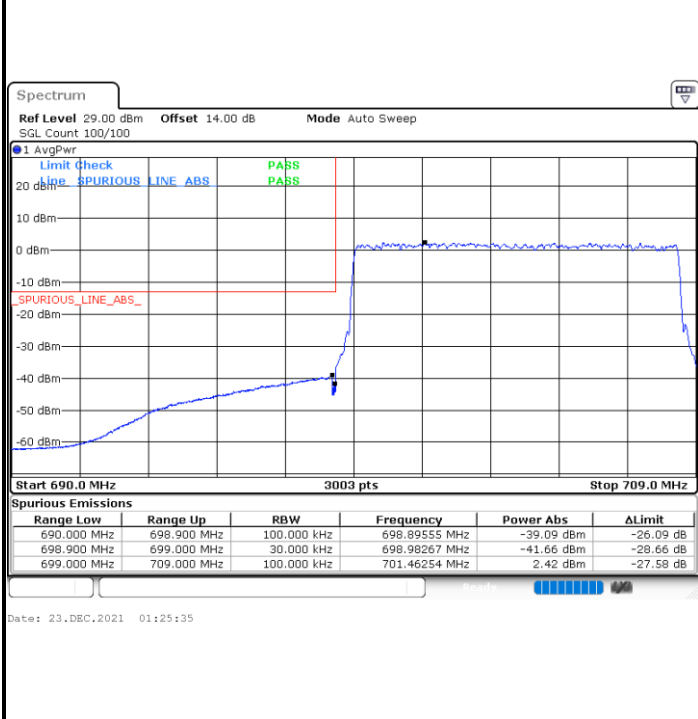
Lowest Band Edge / 1 RB



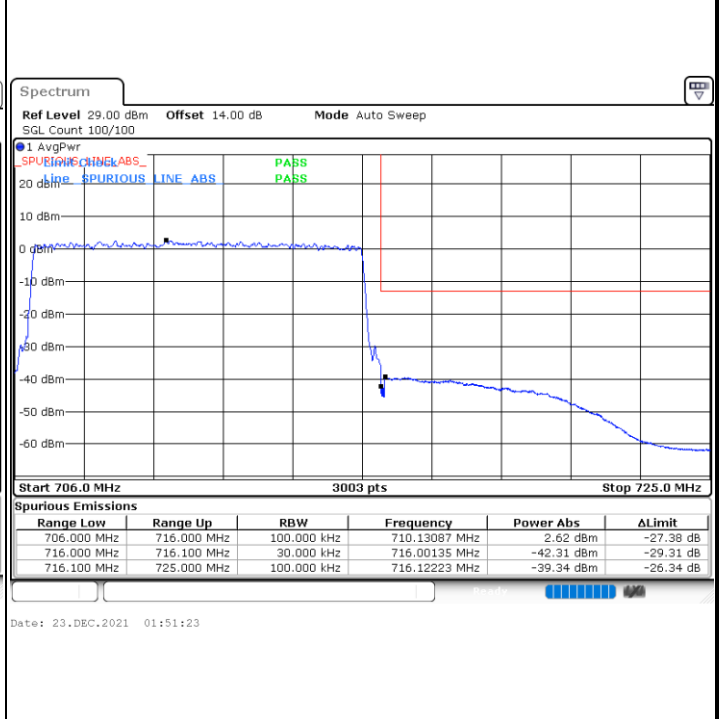
Highest Band Edge / 1 RB



Lowest Band Edge / Full RB

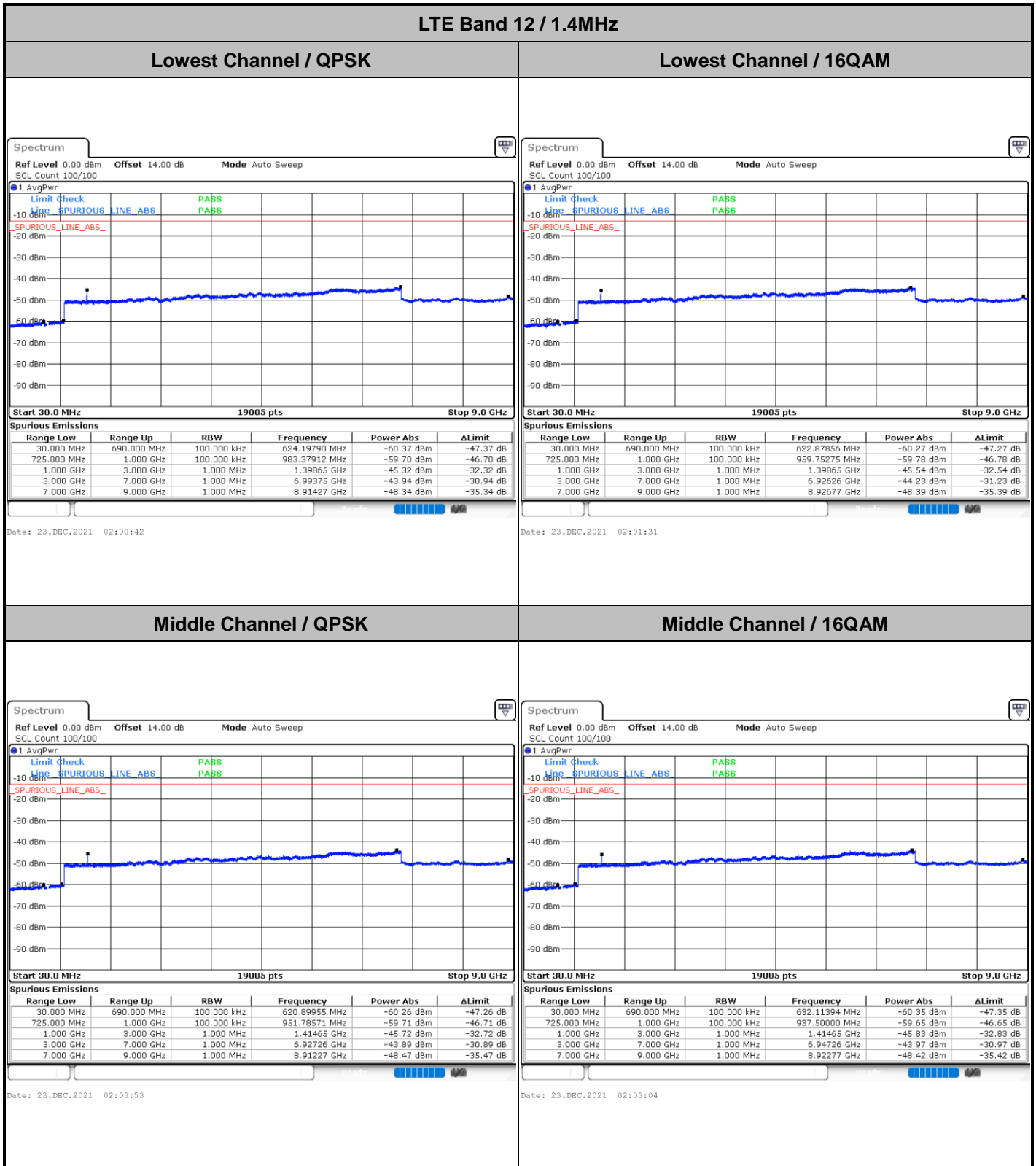


Highest Band Edge / Full RB





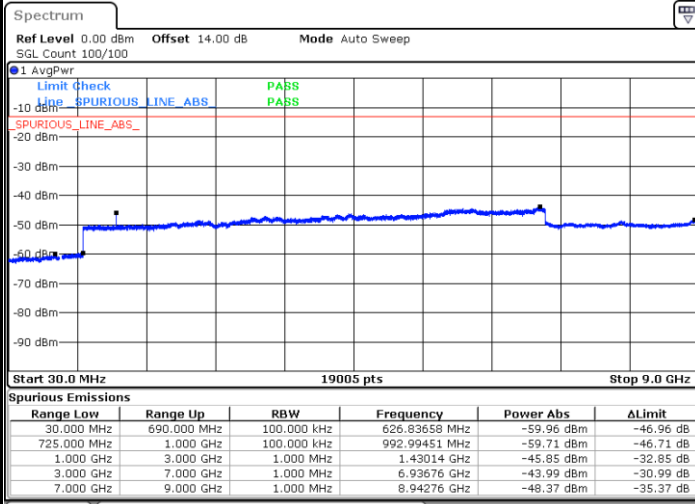
Conducted Spurious Emission





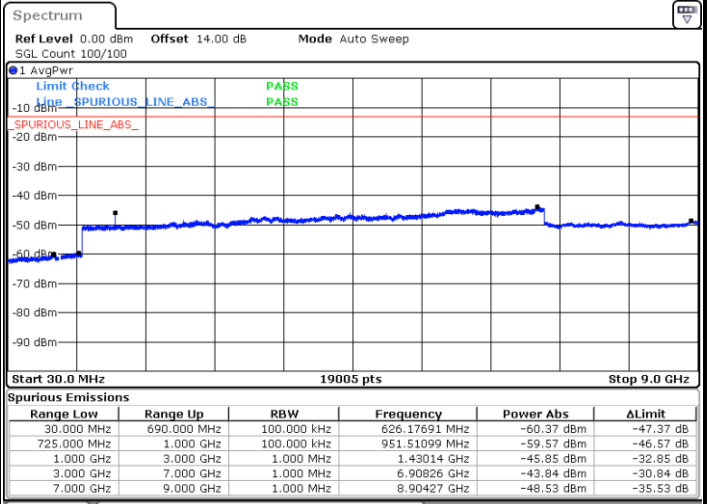
LTE Band 12 / 1.4MHz

Highest Channel / QPSK



Date: 23.DEC.2021 02:16:22

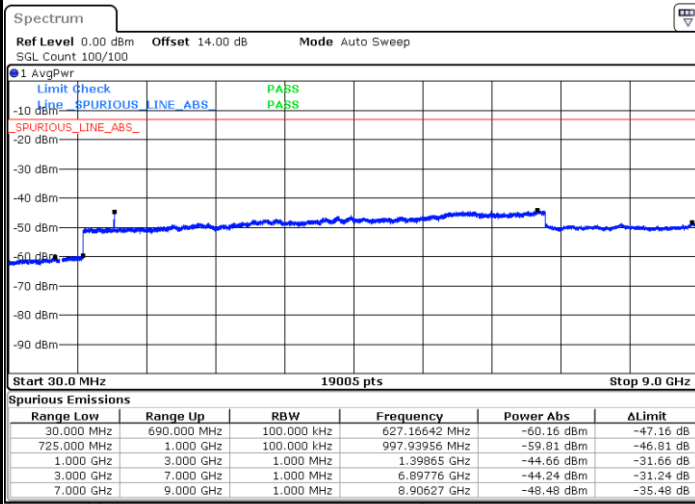
Highest Channel / 16QAM



Date: 23.DEC.2021 02:17:11

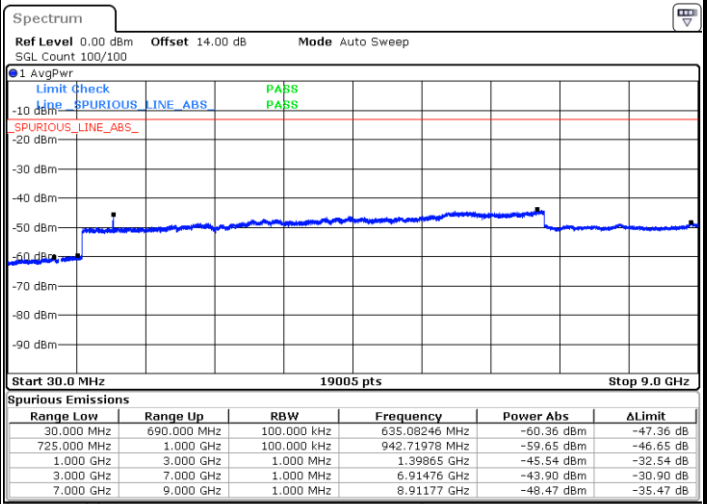
LTE Band 12 / 3MHz

Lowest Channel / QPSK



Date: 23.DEC.2021 00:29:21

Lowest Channel / 16QAM

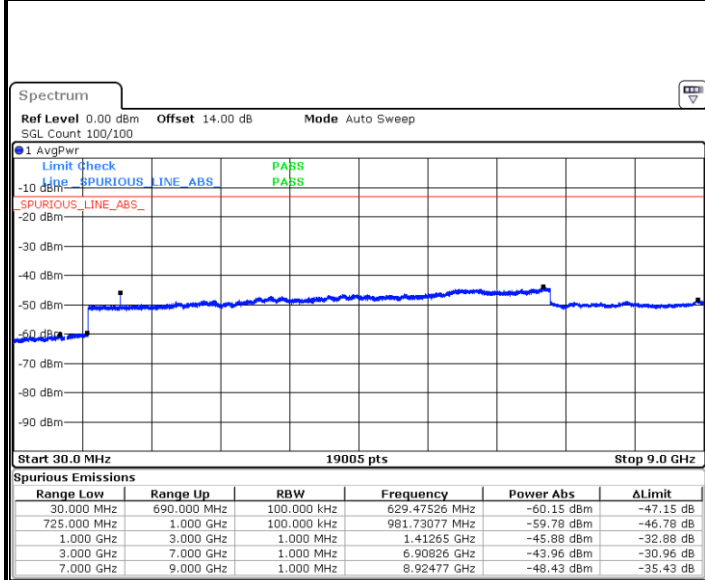


Date: 23.DEC.2021 00:30:10



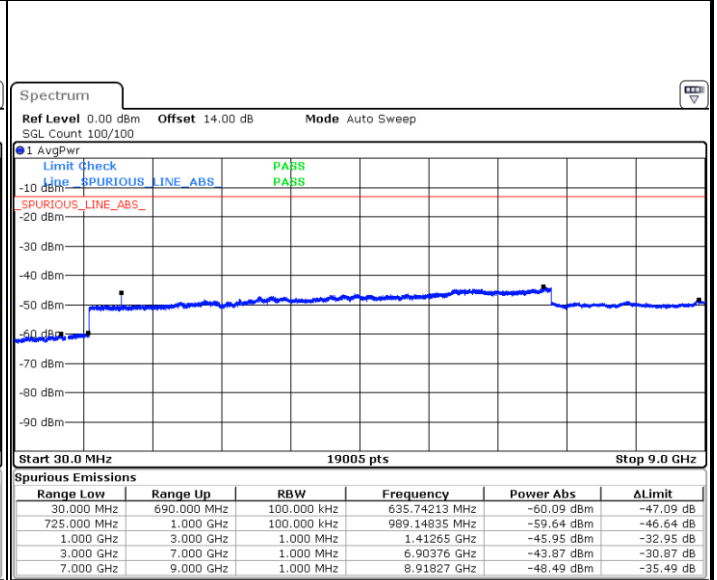
LTE Band 12 / 3MHz

Middle Channel / QPSK



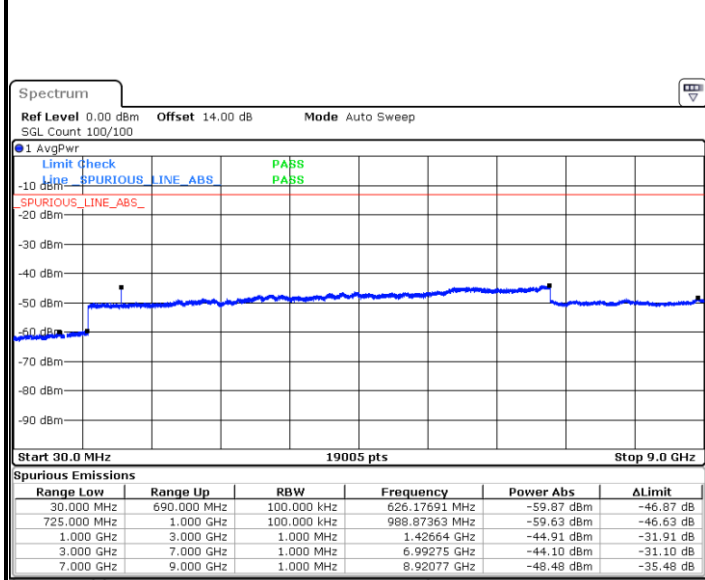
Date: 23.DEC.2021 00:32:33

Middle Channel / 16QAM



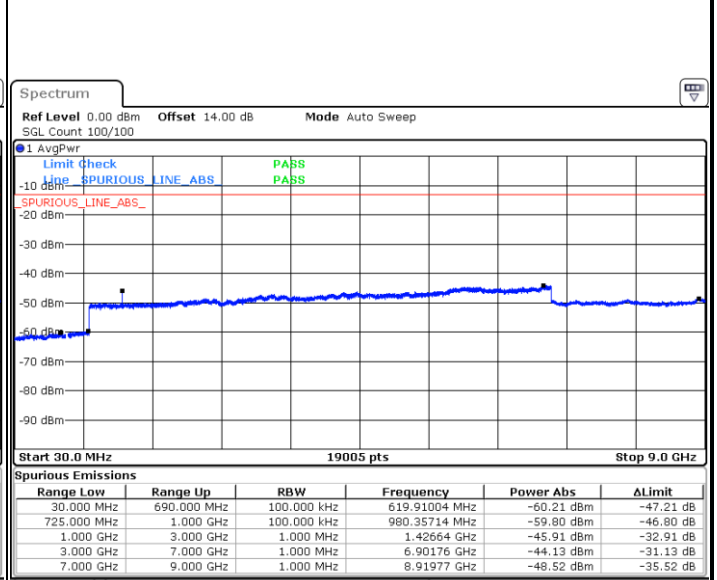
Date: 23.DEC.2021 00:31:43

Highest Channel / QPSK



Date: 23.DEC.2021 00:38:02

Highest Channel / 16QAM

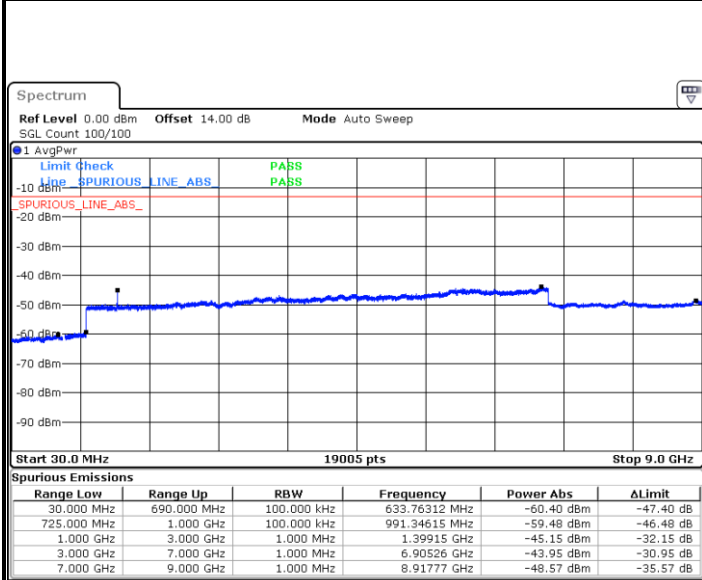


Date: 23.DEC.2021 00:38:51



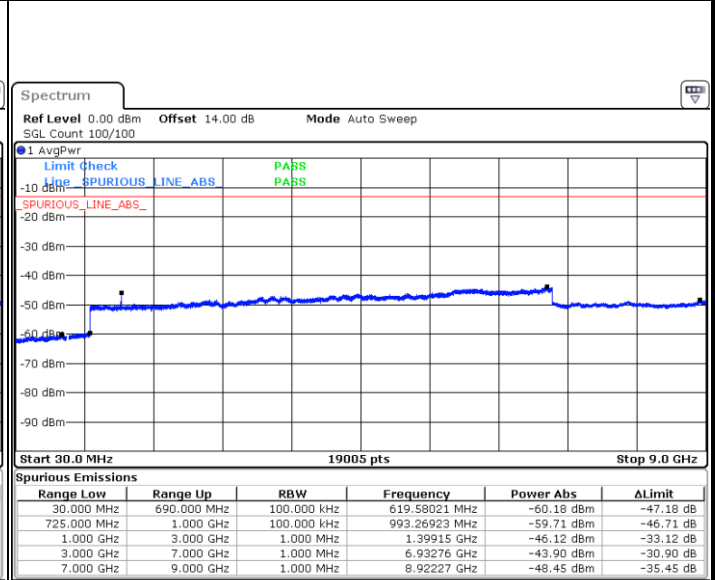
LTE Band 12 / 5MHz

Lowest Channel / QPSK



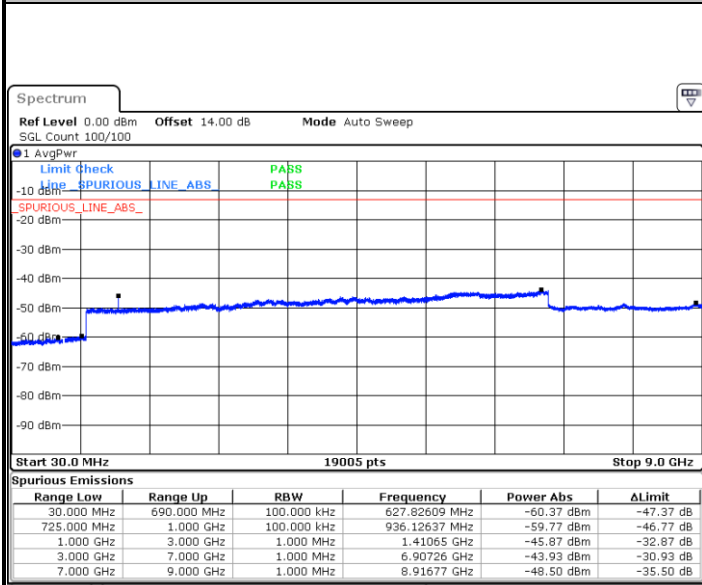
Date: 23.DEC.2021 00:59:21

Lowest Channel / 16QAM



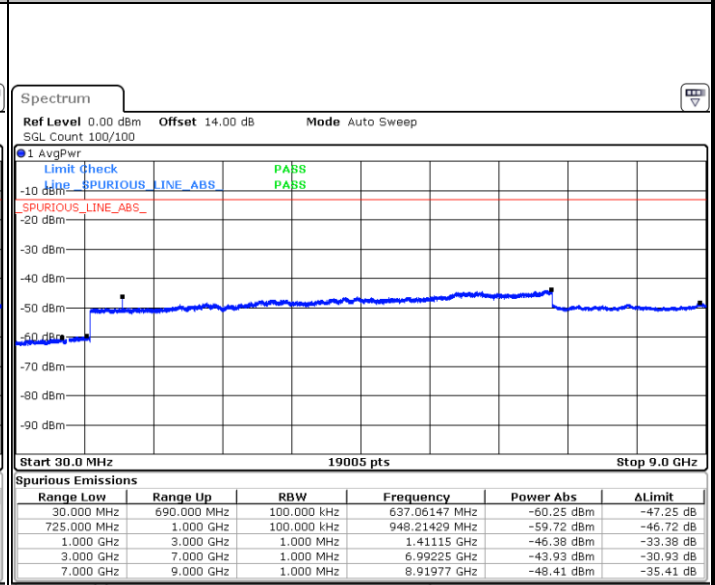
Date: 23.DEC.2021 01:00:11

Middle Channel / QPSK



Date: 23.DEC.2021 01:02:33

Middle Channel / 16QAM

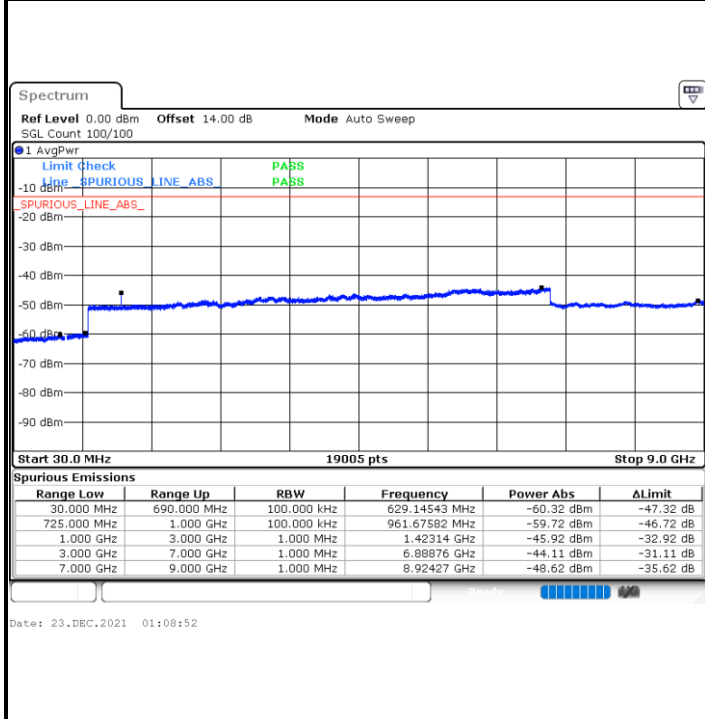


Date: 23.DEC.2021 01:01:44

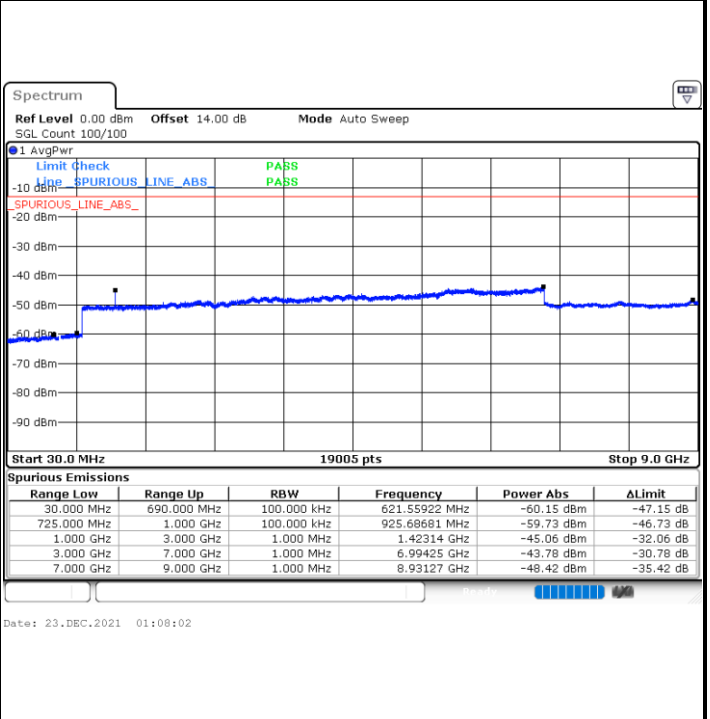


LTE Band 12 / 5MHz

Highest Channel / QPSK

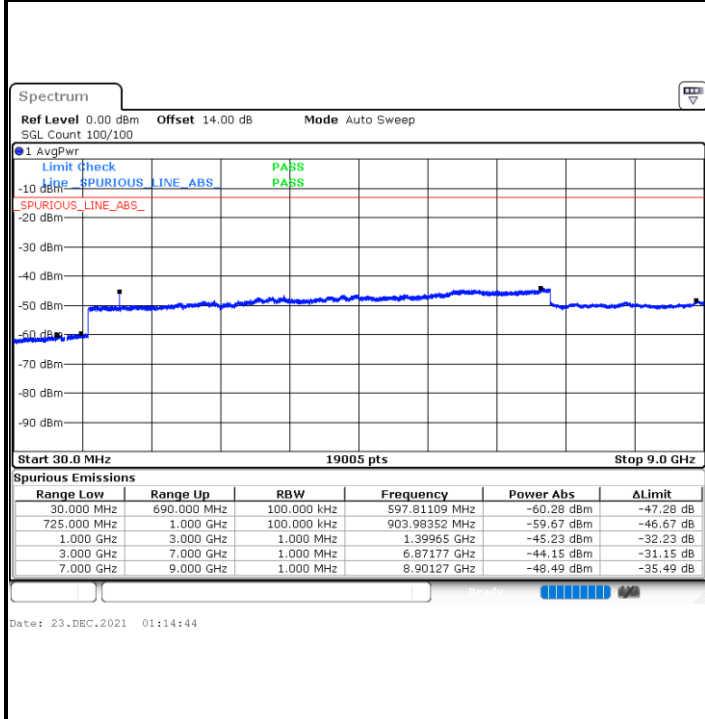


Highest Channel / 16QAM

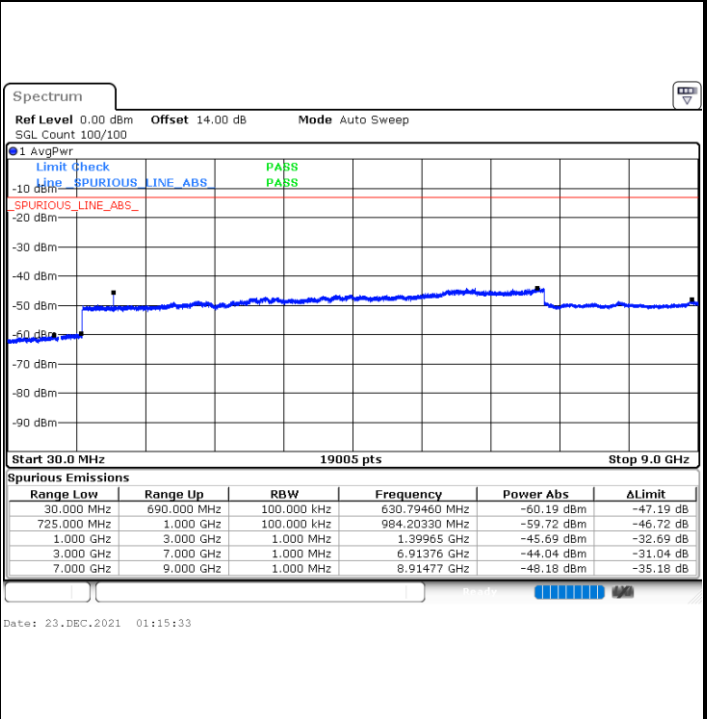


LTE Band 12 / 10MHz

Lowest Channel / QPSK



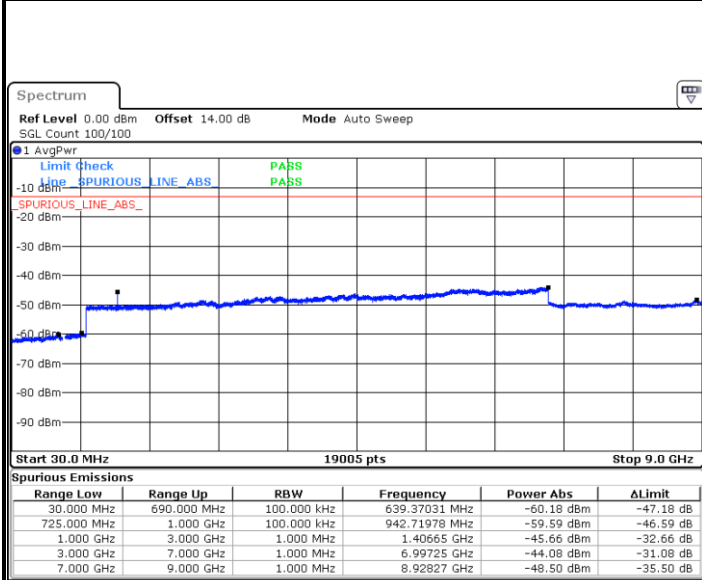
Lowest Channel / 16QAM





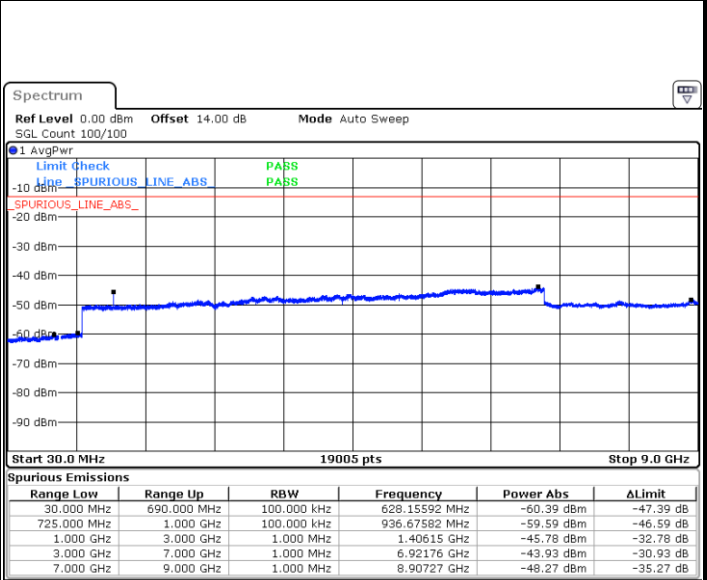
LTE Band 12 / 10MHz

Middle Channel / QPSK



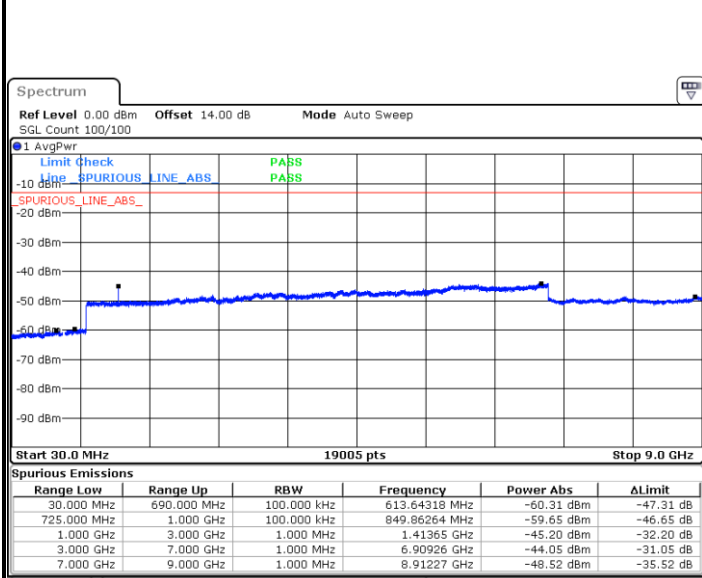
Date: 23.DEC.2021 01:17:56

Middle Channel / 16QAM



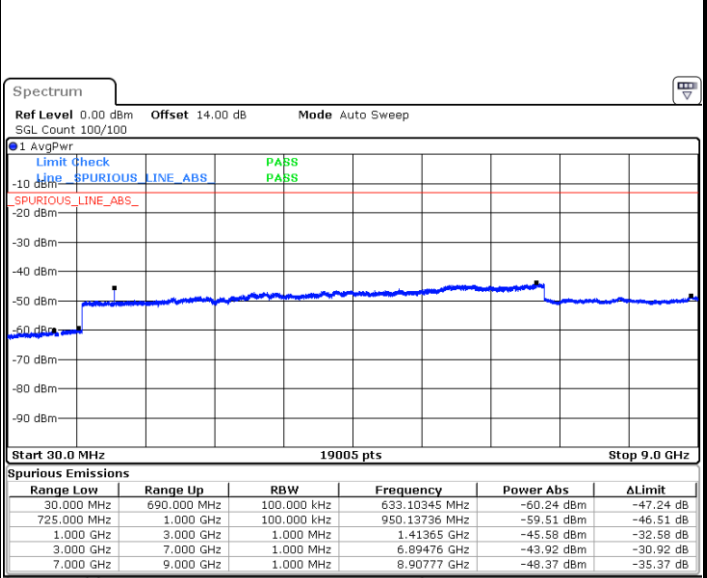
Date: 23.DEC.2021 01:17:06

Highest Channel / QPSK



Date: 23.DEC.2021 01:23:25

Highest Channel / 16QAM



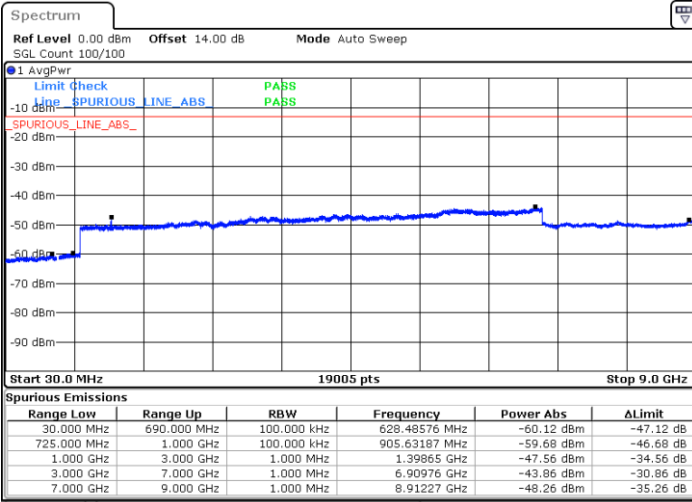
Date: 23.DEC.2021 01:24:14



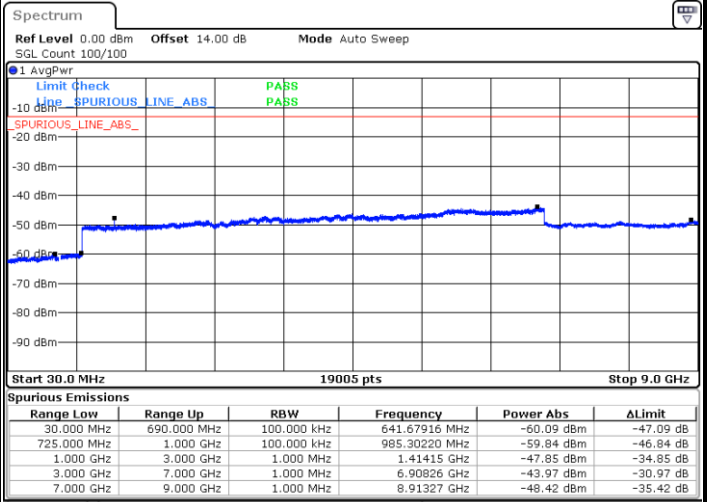
LTE Band 12 / 1.4MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

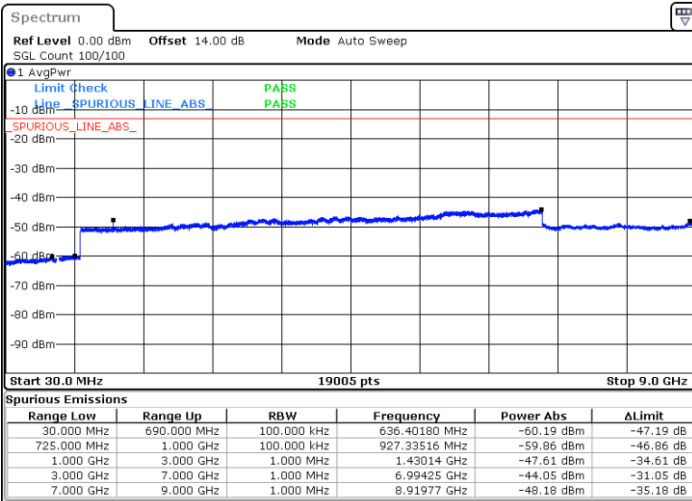


Date: 23.DEC.2021 02:21:00



Date: 23.DEC.2021 02:22:11

Highest Channel / 64QAM



Date: 23.DEC.2021 02:26:00

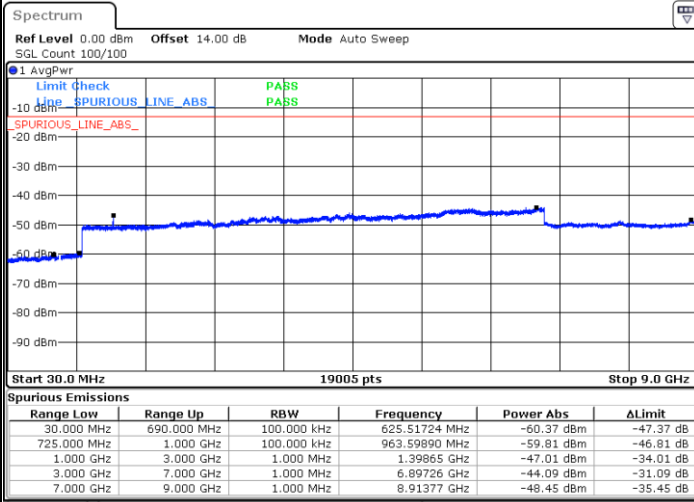
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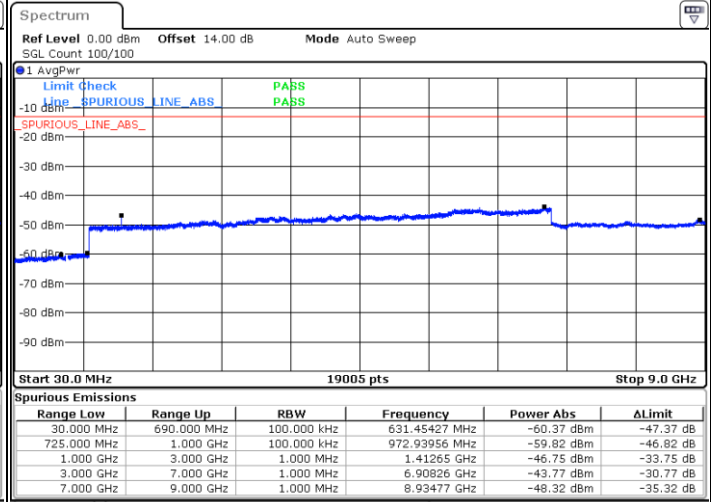
LTE Band 12 / 3MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

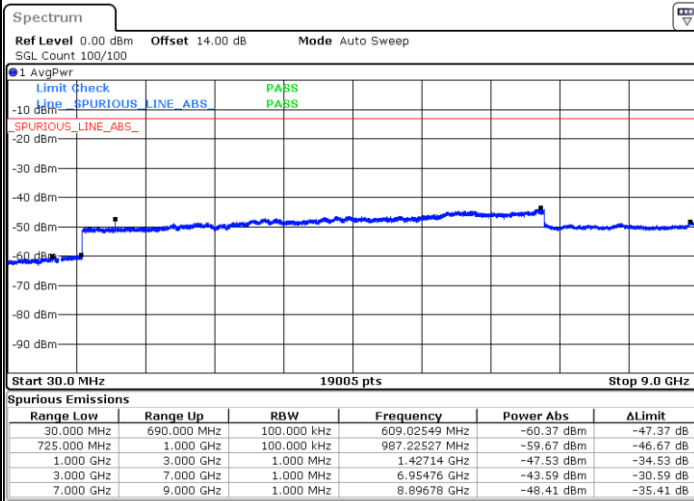


Date: 23.DEC.2021 00:42:01



Date: 23.DEC.2021 00:43:12

Highest Channel / 64QAM



Date: 23.DEC.2021 00:46:22

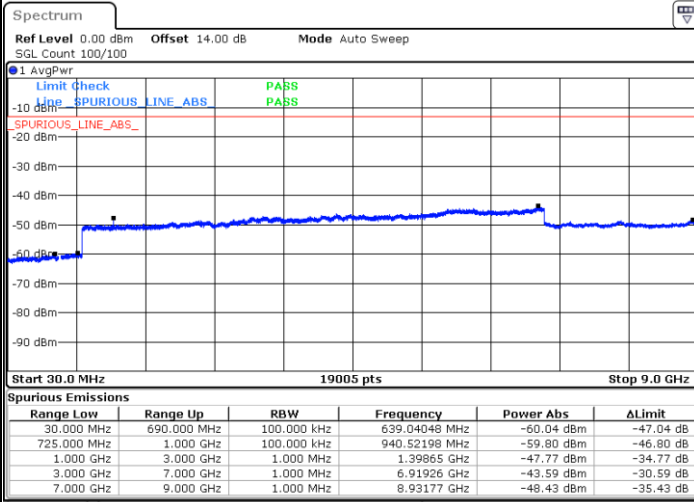
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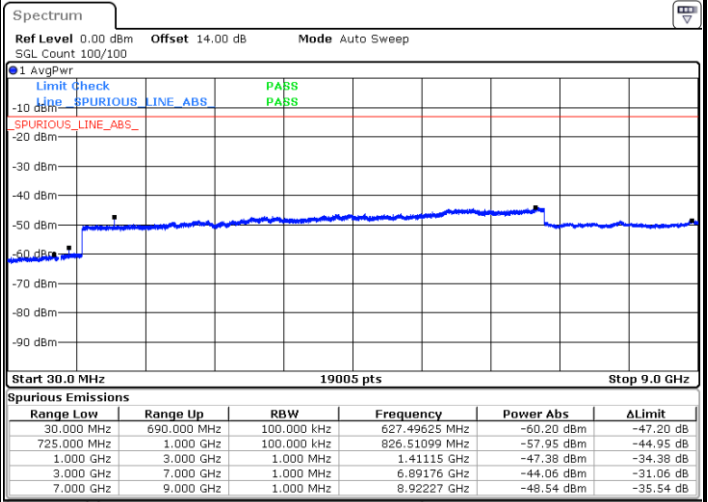
LTE Band 12 / 5MHz

Lowest Channel / 64QAM

Middle Channel / 64QAM

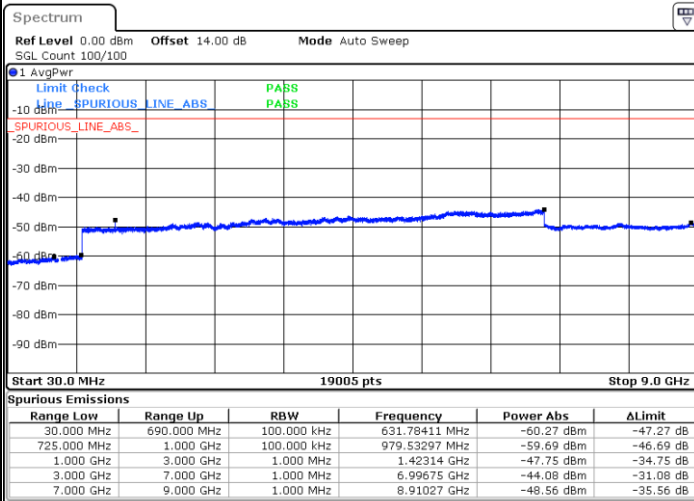


Date: 23.DEC.2021 00:49:31



Date: 23.DEC.2021 00:50:43

Highest Channel / 64QAM



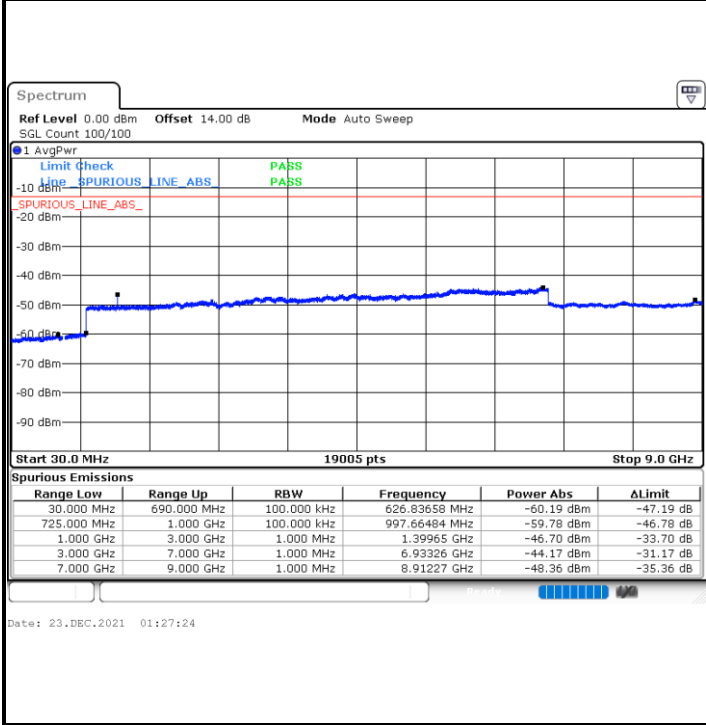
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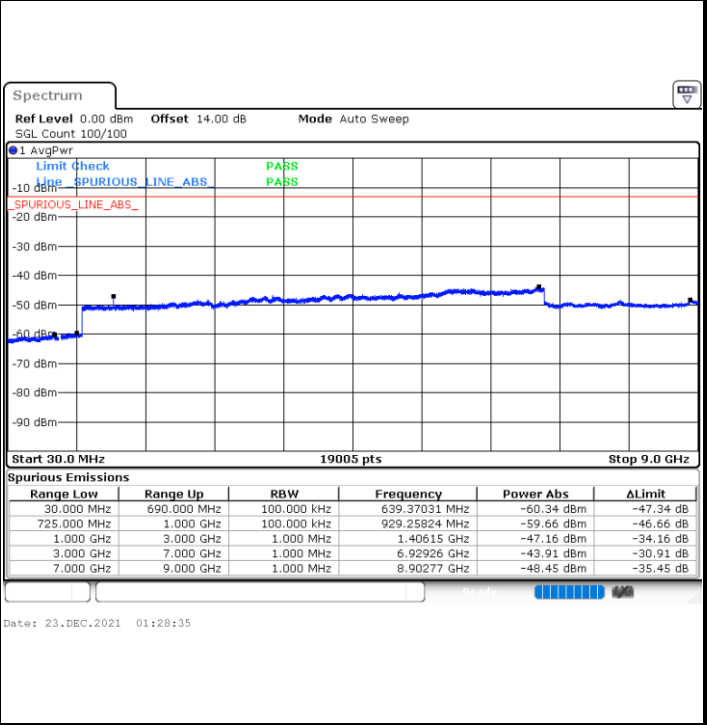


LTE Band 12 / 10MHz

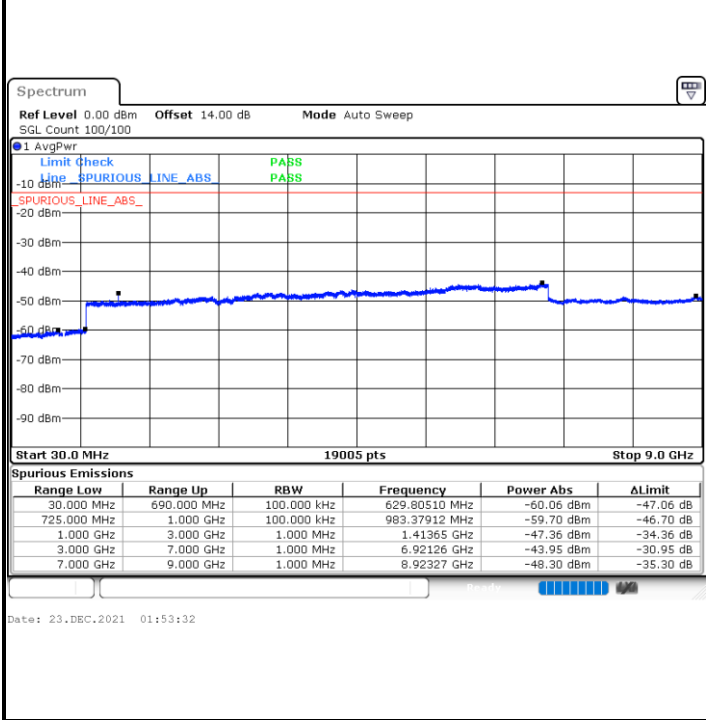
Lowest Channel / 64QAM



Middle Channel / 64QAM



Highest Channel / 64QAM



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Frequency Stability

Test Conditions		LTE Band 12 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0004	PASS
40	Normal Voltage	0.0000	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0000	
-10	Normal Voltage	0.0008	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0001	
20	Maximum Voltage	0.0003	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0003	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



LTE Band 13

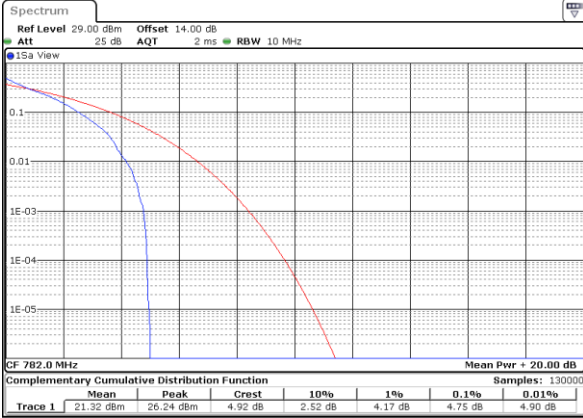
Peak-to-Average Ratio

Mode	LTE Band 13 / 10MHz				
Mod.	QPSK		16QAM		Limit: 13dB
RB Size	1RB	Full RB	1RB	Full RB	Result
Lowest CH	-	-	-	-	PASS
Middle CH	4.75	5.36	5.97	6.12	
Highest CH	-	-	-	-	
Mode	LTE Band 13 / 10MHz				
Mod.	64QAM				Limit: 13dB
RB Size	1RB	Full RB			Result
Lowest CH	-	-	-	-	PASS
Middle CH	6.75	6.35	-	-	
Highest CH	-	-	-	-	

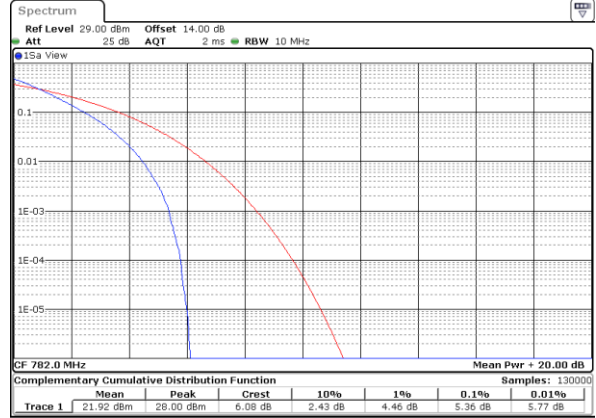


LTE Band 13 / 10MHz / QPSK

Middle Channel / 1RB

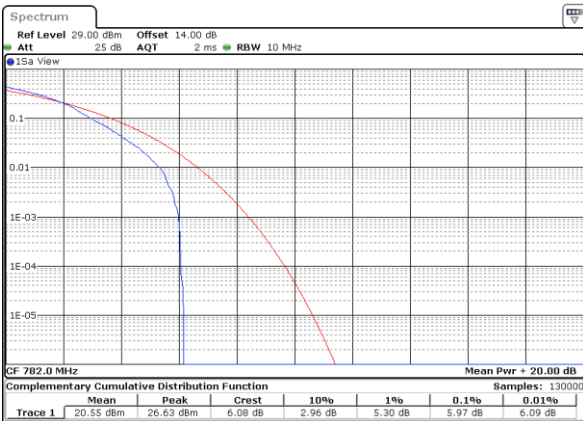


Middle Channel / Full RB

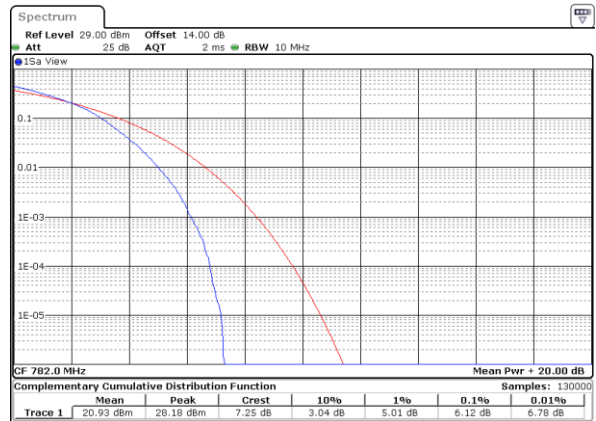


LTE Band 13 / 10MHz / 16QAM

Middle Channel / 1RB

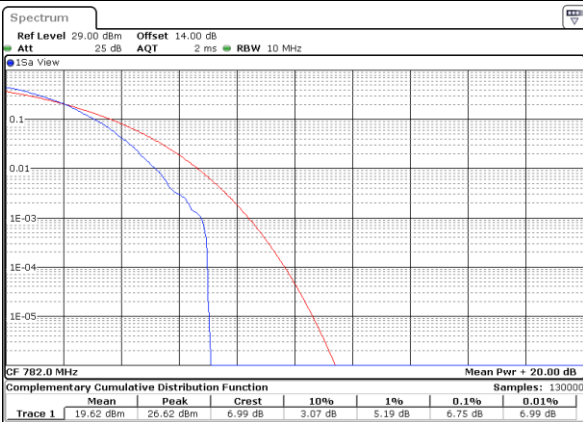


Middle Channel / Full RB

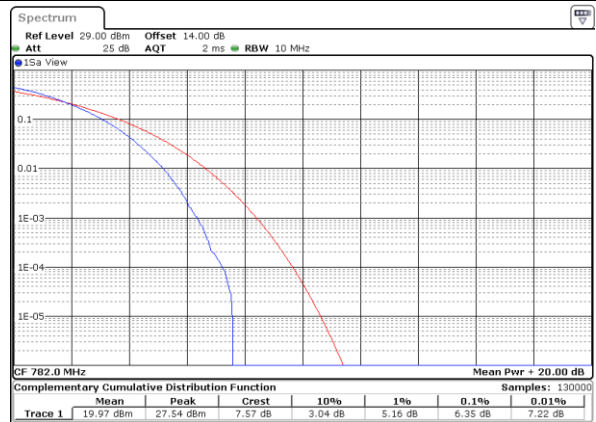


LTE Band 13 / 10MHz / 64QAM

Middle Channel / 1RB



Middle Channel / Full RB



Date: 17_DEC.2021 00:47:05

Date: 17_DEC.2021 00:47:15



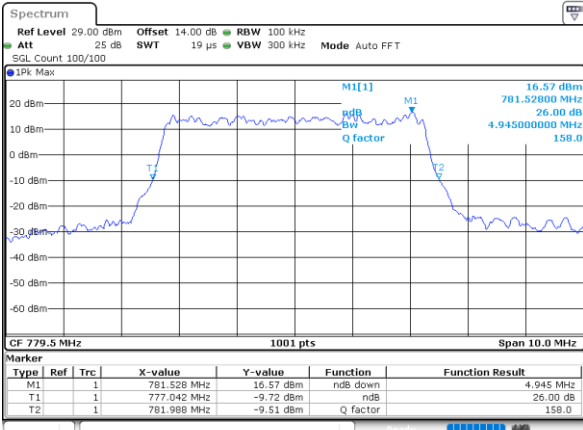
26dB Bandwidth

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
Lowest CH	-	-	-	-	4.95	5.00	-	-	-	-	-	-
Middle CH	-	-	-	-	5.10	5.01	9.81	9.93	-	-	-	-
Highest CH	-	-	-	-	4.95	5.06	-	-	-	-	-	-
Mode	LTE Band 13 : 26dB BW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	5.02	-	-	-	-	-	-	-
Middle CH	-	-	-	-	5.11	-	9.65	-	-	-	-	-
Highest CH	-	-	-	-	5.01	-	-	-	-	-	-	-



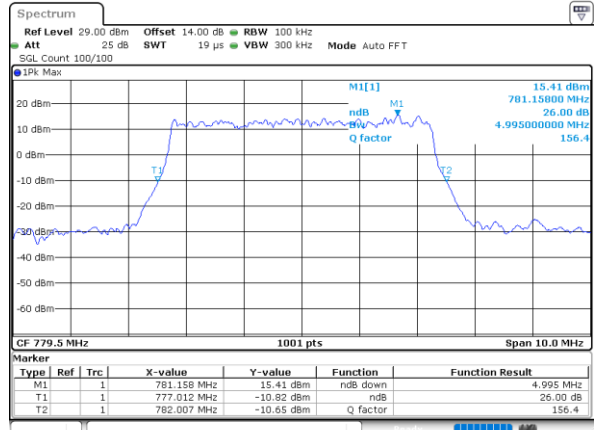
LTE Band 13

Lowest Channel / 5MHz / QPSK



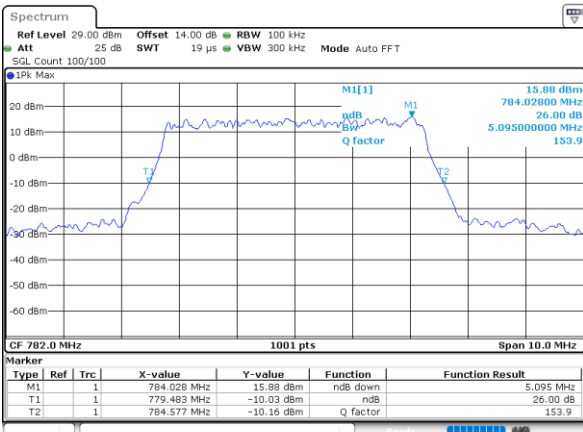
Date: 16, DEC, 2021 23:56:33

Lowest Channel / 5MHz / 16QAM



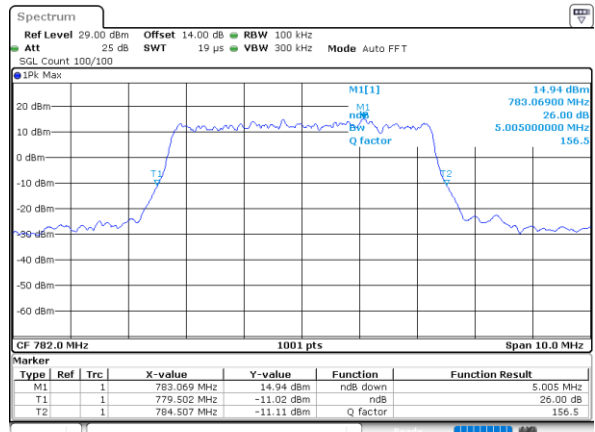
Date: 16, DEC, 2021 23:56:22

Middle Channel / 5MHz / QPSK



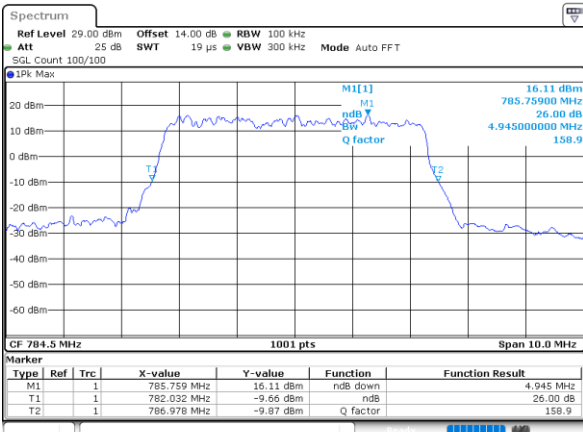
Date: 17, DEC, 2021 00:07:16

Middle Channel / 5MHz / 16QAM



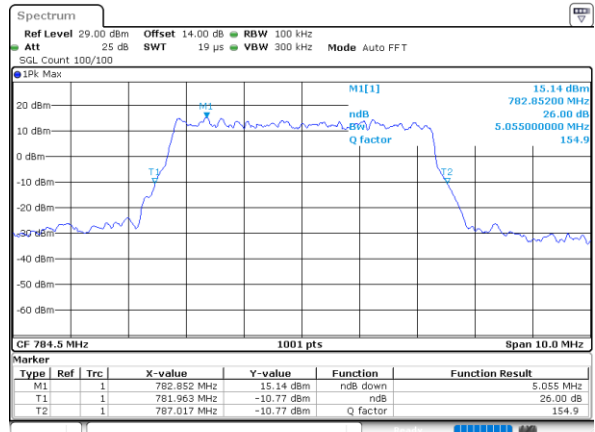
Date: 17, DEC, 2021 00:07:27

Highest Channel / 5MHz / QPSK



Date: 17, DEC, 2021 00:08:33

Highest Channel / 5MHz / 16QAM

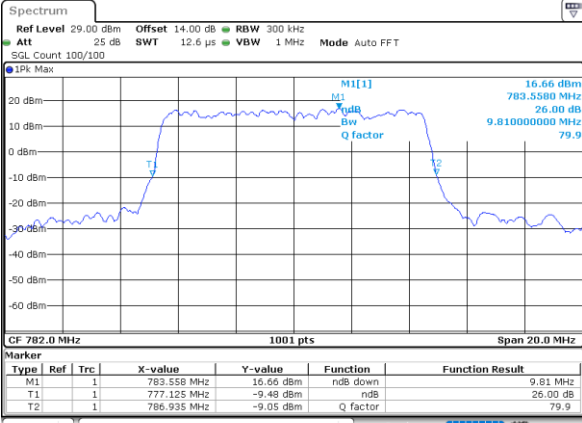


Date: 17, DEC, 2021 00:08:22



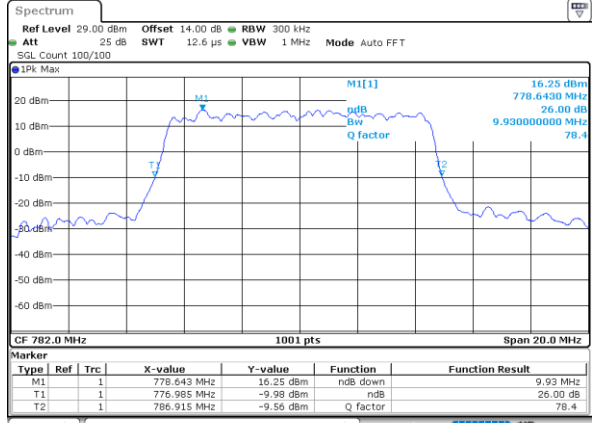
LTE Band 13

Middle Channel / 10MHz / QPSK



Date: 17, DEC, 2021 00:28:29

Middle Channel / 10MHz / 16QAM

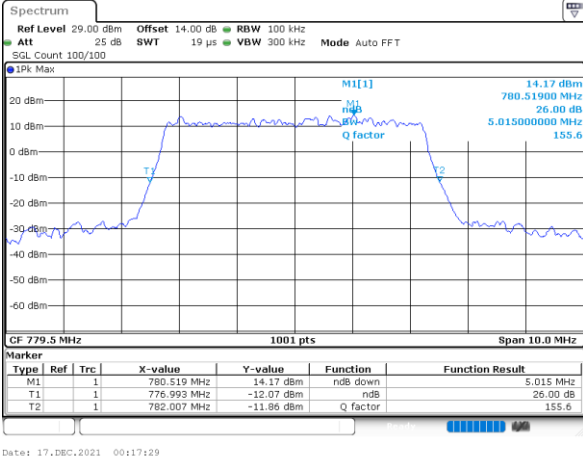


Date: 17, DEC, 2021 00:28:18



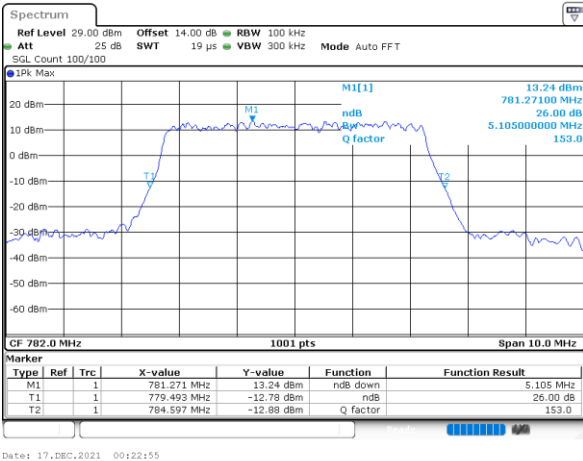
LTE Band 13

Lowest Channel / 5MHz / 64QAM

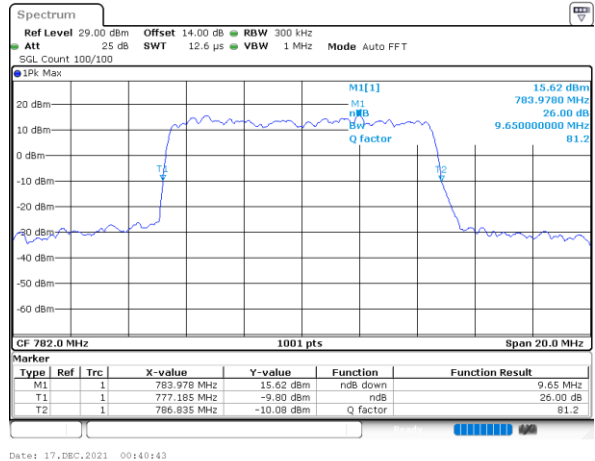


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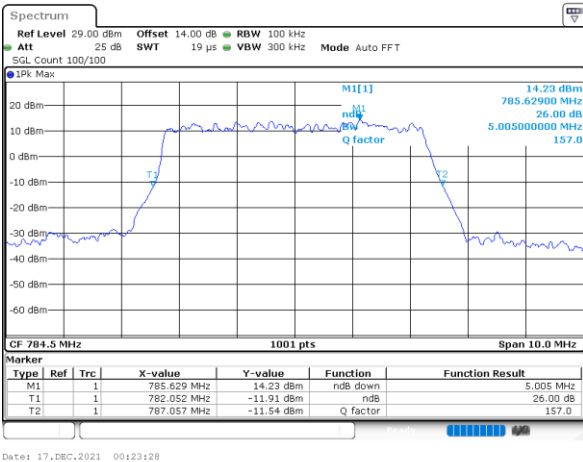
Middle Channel / 5MHz / 64QAM



Middle Channel / 10MHz / 64QAM



Highest Channel / 5MHz / 64QAM



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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
Lowest CH	-	-	-	-	4.52	4.49	-	-	-	-	-	-
Middle CH	-	-	-	-	4.47	4.51	9.01	9.05	-	-	-	-
Highest CH	-	-	-	-	4.49	4.49	-	-	-	-	-	-
Mode	LTE Band 13 : 99%OBW(MHz)											
BW	1.4MHz		3MHz		5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM		64QAM		64QAM		64QAM		64QAM		64QAM	
Lowest CH	-	-	-	-	4.52	-	-	-	-	-	-	-
Middle CH	-	-	-	-	4.50	-	8.99	-	-	-	-	-
Highest CH	-	-	-	-	4.50	-	-	-	-	-	-	-