

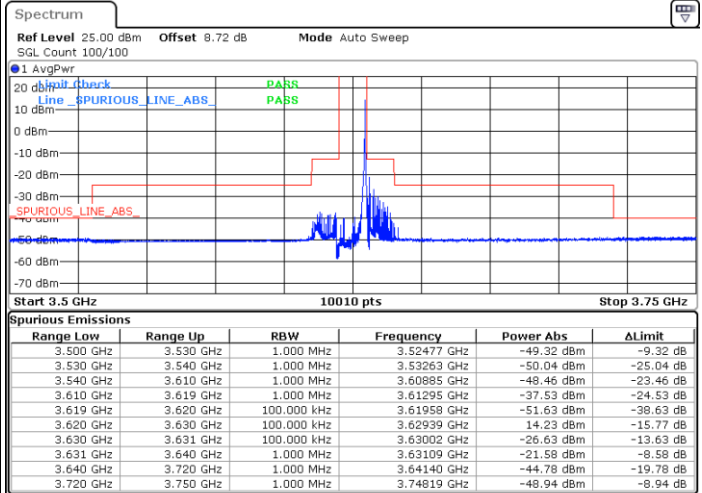
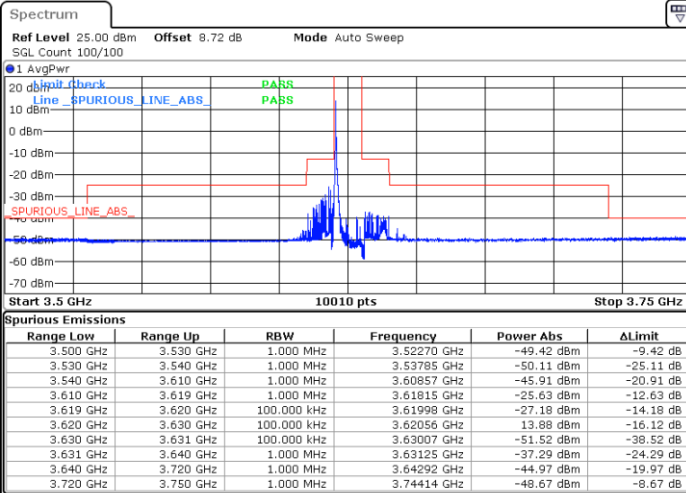


LTE Band 48 / 10MHz

256QAM

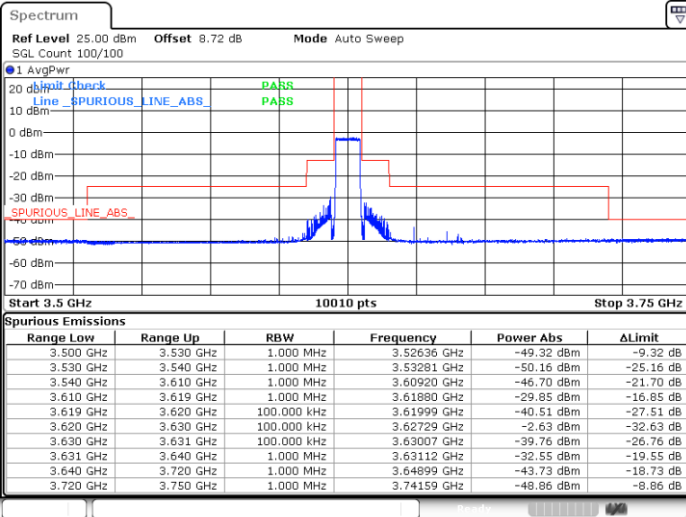
MiddleChannel / 1RB0

Middle Channel / 1RBmax



Middle Channel / FullIRB

N/A



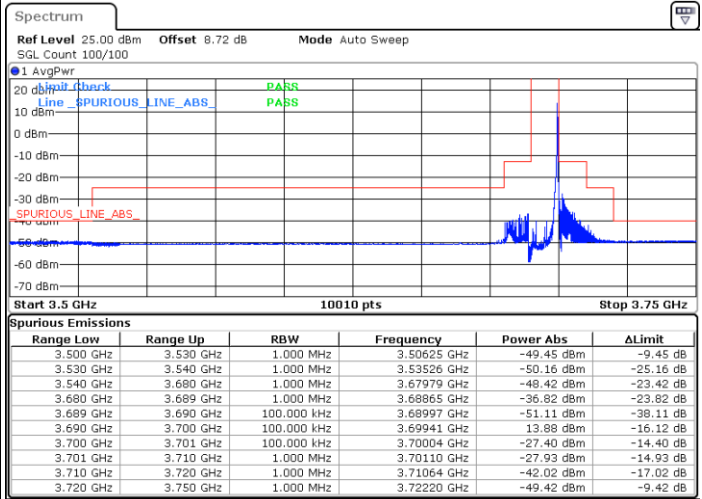
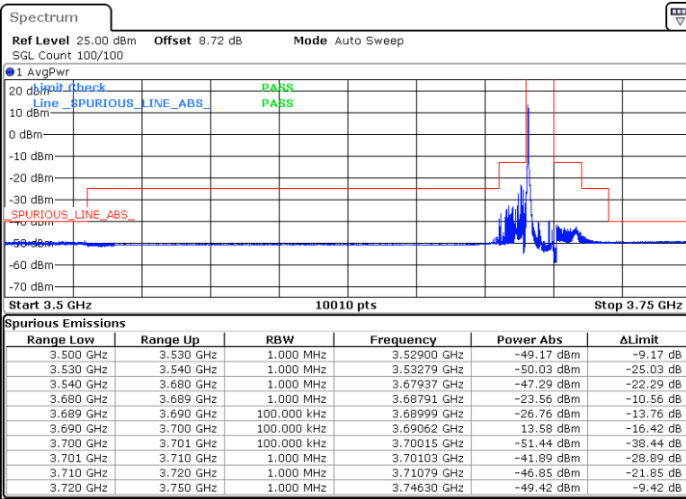


LTE Band 48 / 10MHz

256QAM

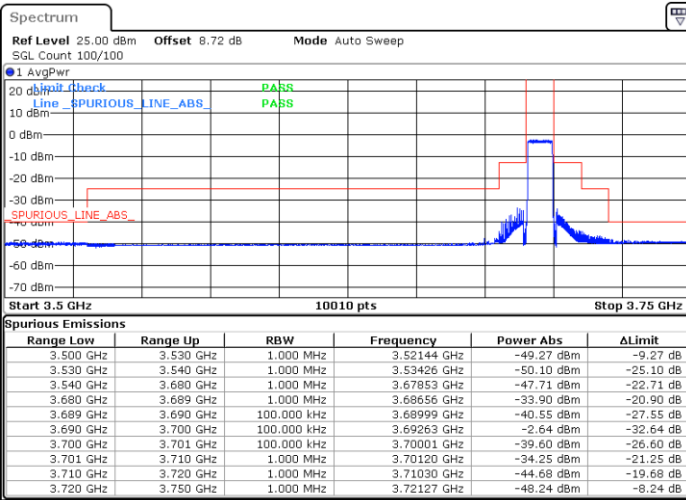
Highest Channel / 1RB0

Highest Channel / 1RBmax



Highest Channel / FullIRB

N/A



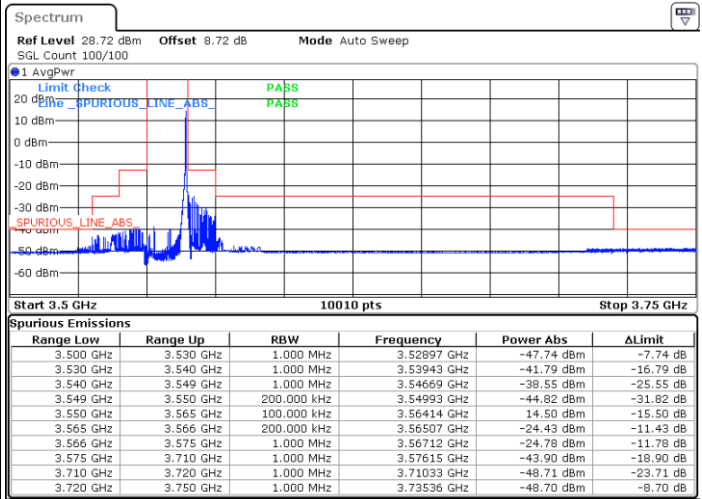
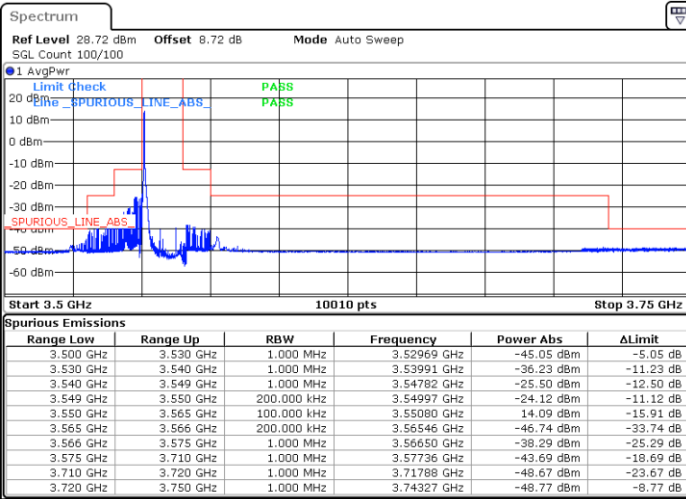


LTE Band 48 / 15MHz

256QAM

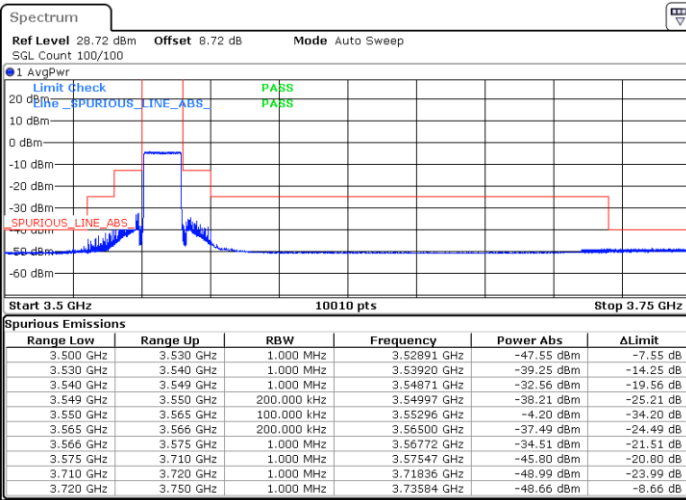
Lowest Channel / 1RB0

Lowest Channel / 1RBmax



Lowest Channel / FullRB

N/A



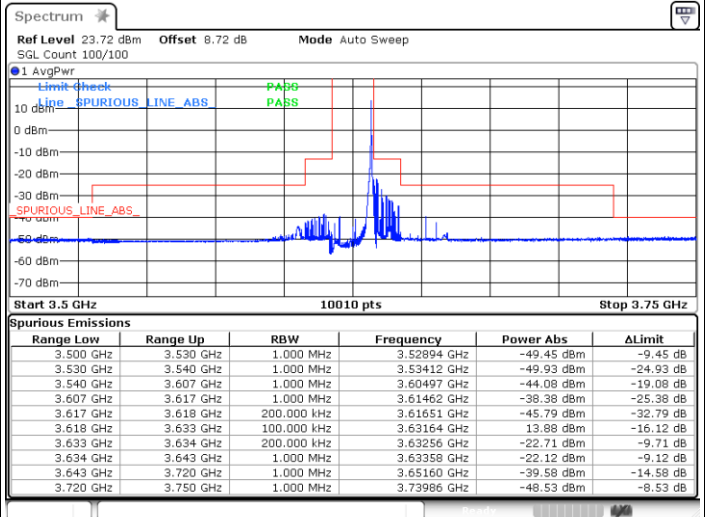
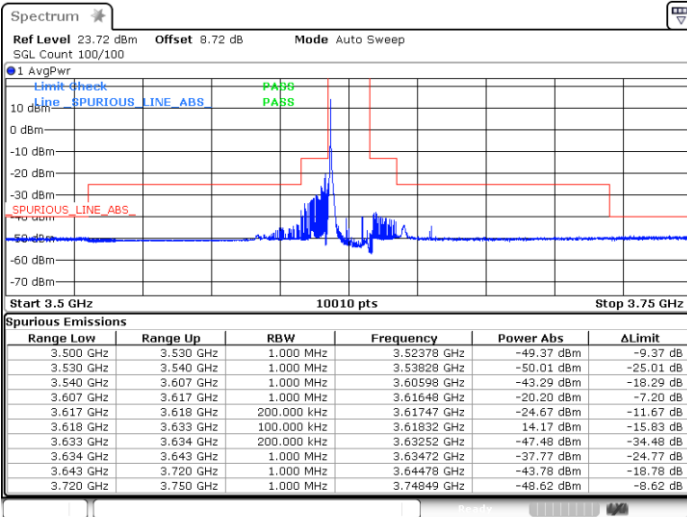


LTE Band 48 / 15MHz

256QAM

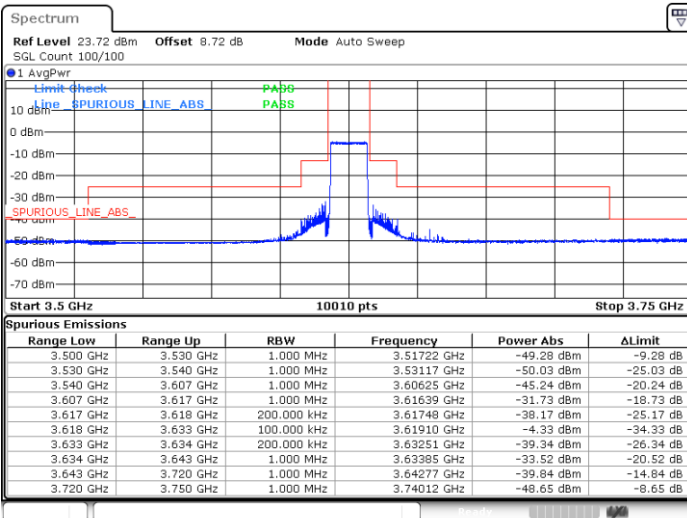
Middle Channel / 1RB0

Middle Channel / 1RBmax



Middle Channel / FullIRB

N/A



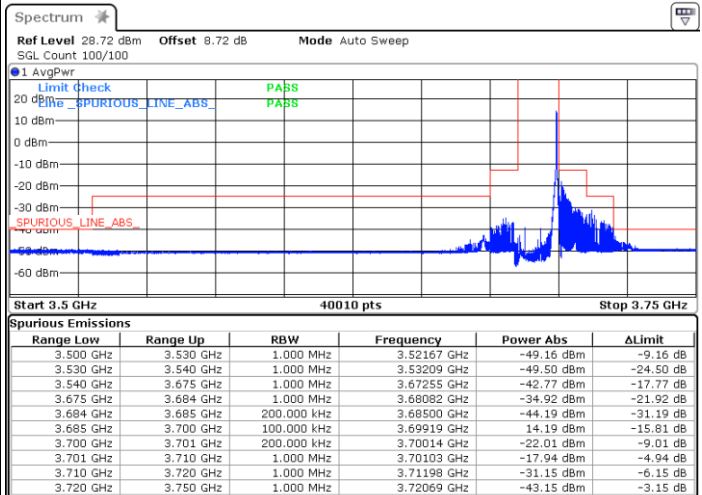
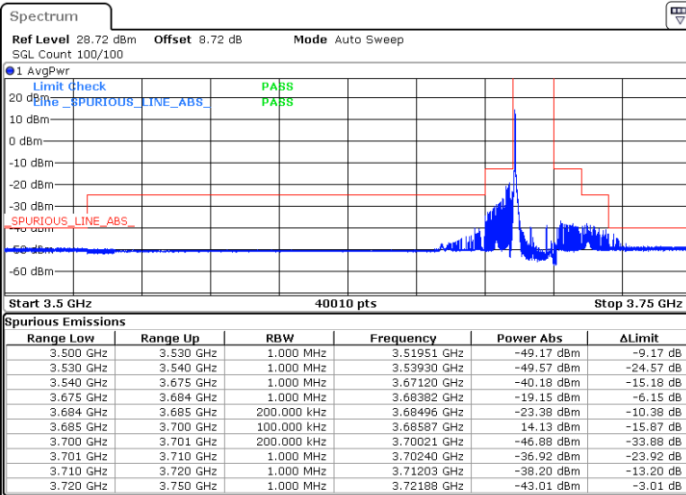


LTE Band 48 / 15MHz

256QAM

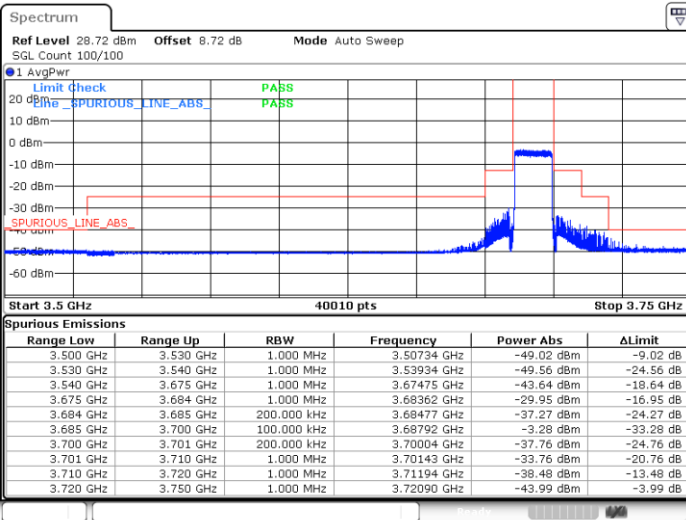
Highest Channel / 1RB0

Highest Channel / 1RBmax



Highest Channel / FullIRB

N/A



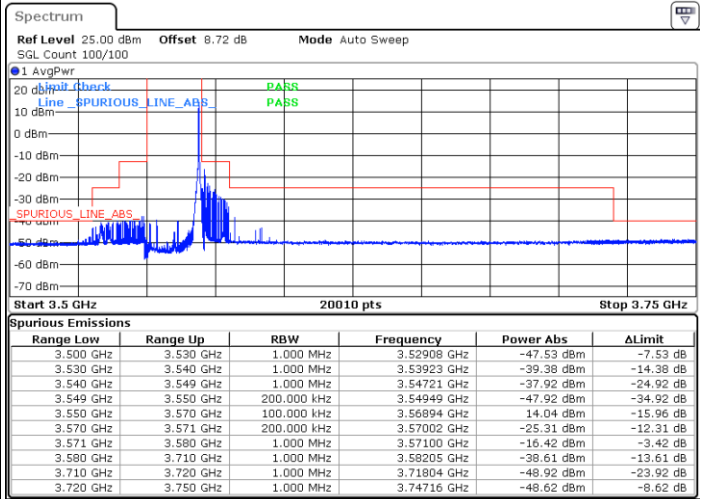
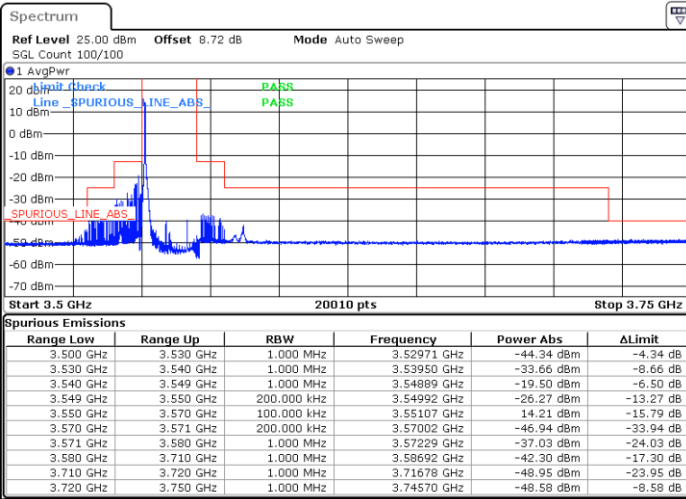


LTE Band 48 / 20MHz

256QAM

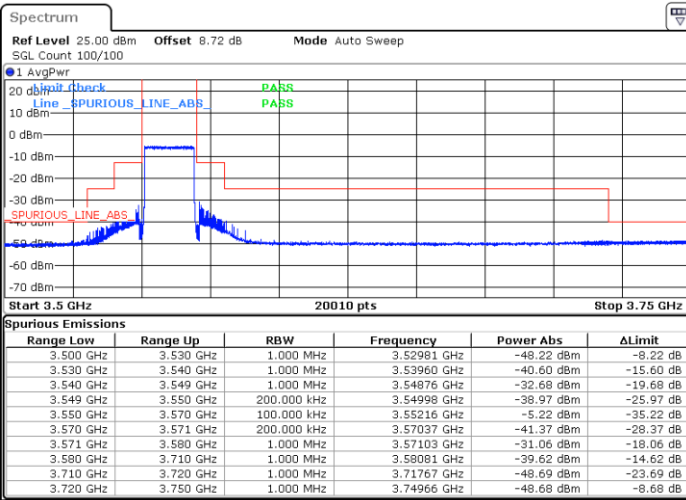
Lowest Channel / 1RB0

Lowest Channel / 1RBmax



Lowest Channel / FullIRB

N/A



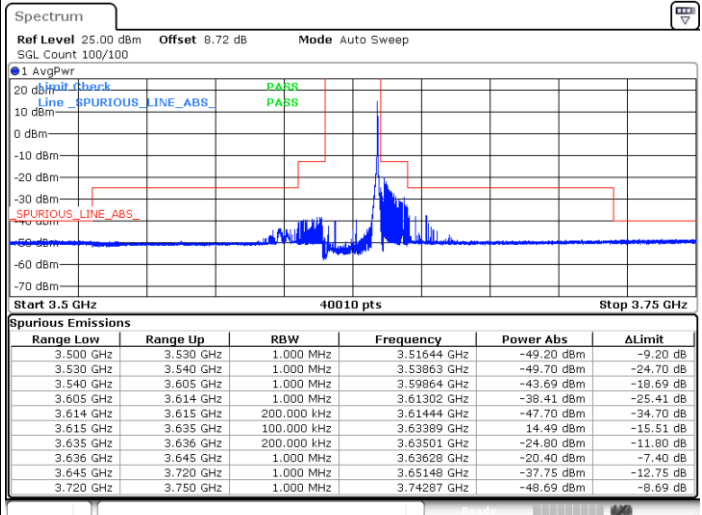
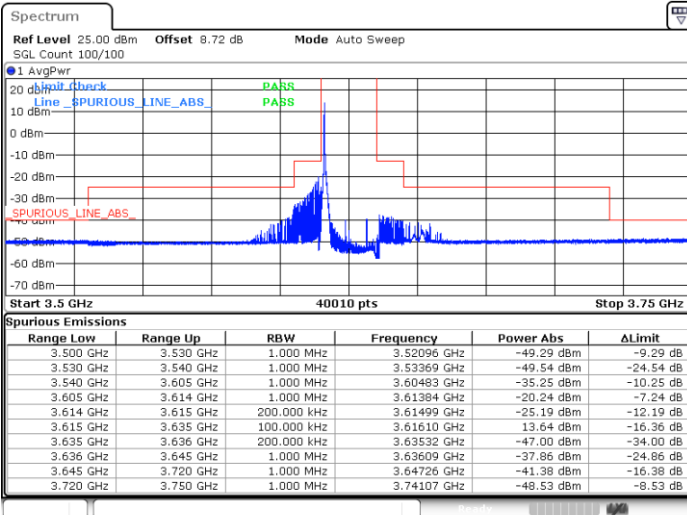


LTE Band 48 / 20MHz

256QAM

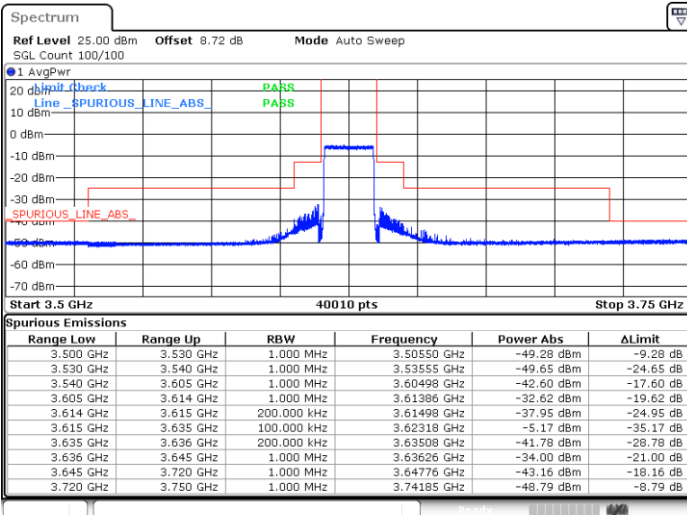
Middle Channel / 1RB0

Middle Channel / 1RBmax



Middle Channel / FullIRB

N/A



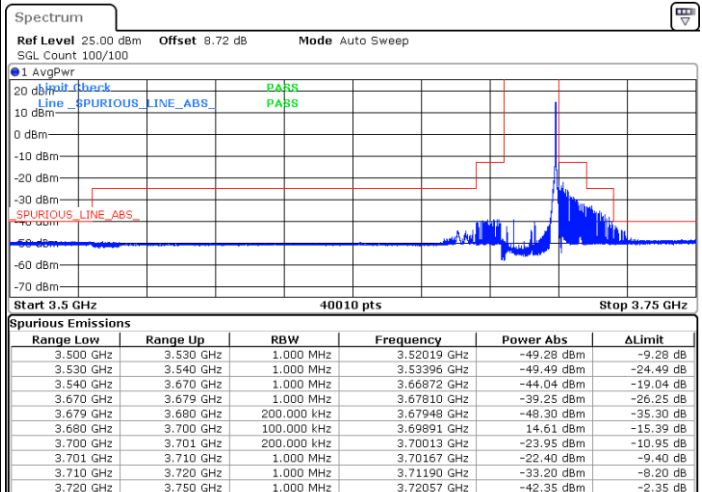
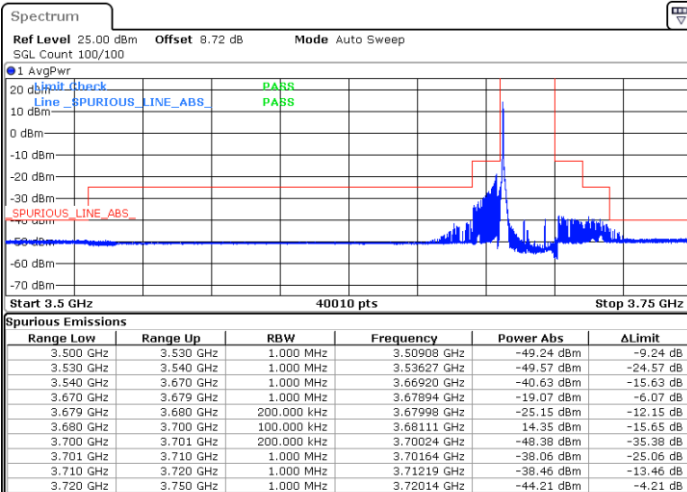


LTE Band 48 / 20MHz

256QAM

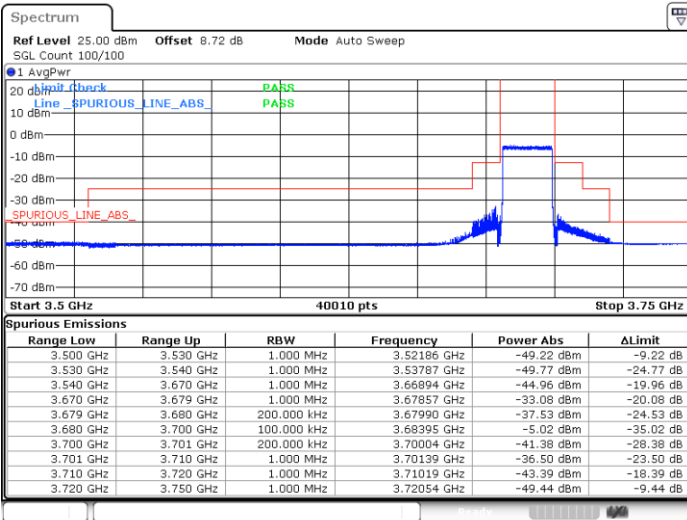
Highest Channel / 1RB0

Highest Channel / 1RBmax



Highest Channel / FullIRB

N/A





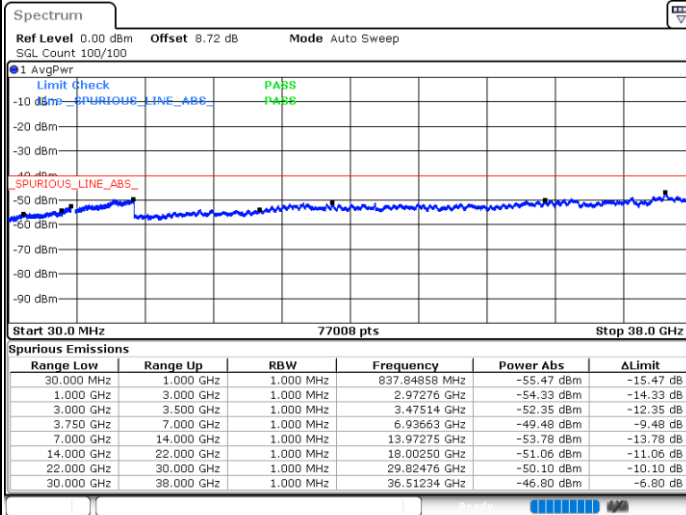
A2.6 Conducted Spurious Emission

LTE Band 48 / 5MHz

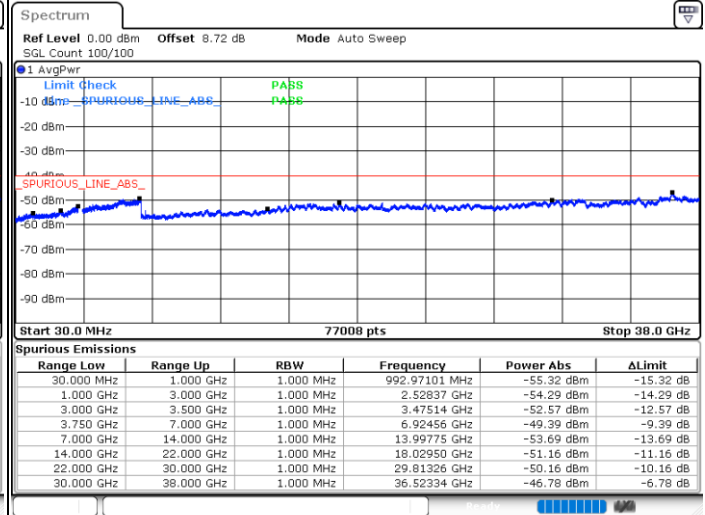
QPSK / 1RB0

Lowest Channel

Middle Channel

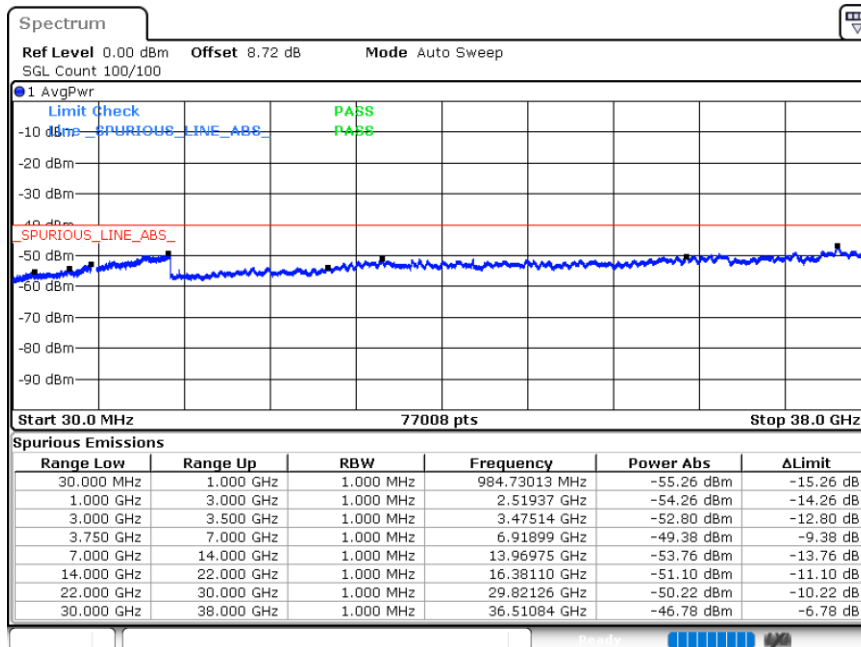


Date: 6.MAY.2023 03:23:50



Date: 6.MAY.2023 03:22:17

Highest Channel



Date: 6.MAY.2023 03:25:24

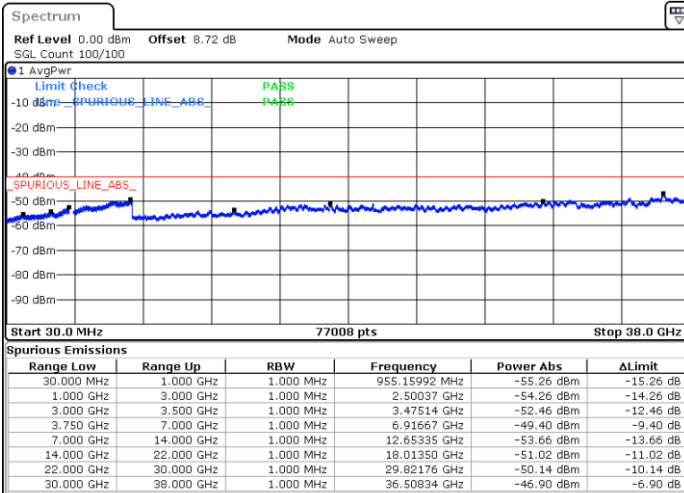


LTE Band 48 / 10MHz

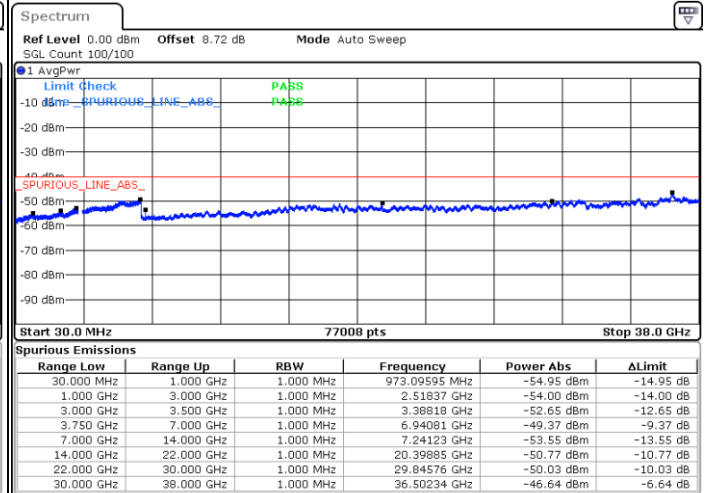
QPSK / 1RB0

Lowest Channel

Middle Channel

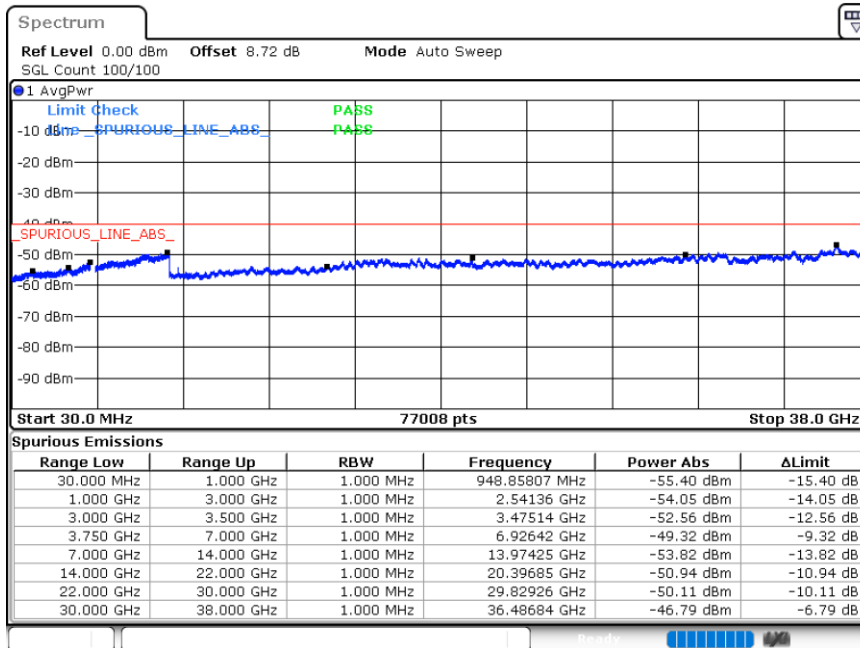


Date: 6.MAY.2023 03:27:07



Date: 6.MAY.2023 03:28:38

Highest Channel



Date: 6.MAY.2023 03:31:02

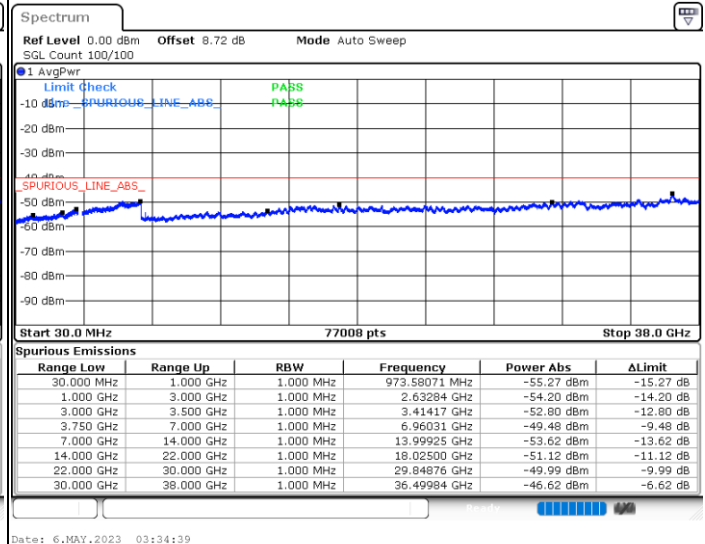
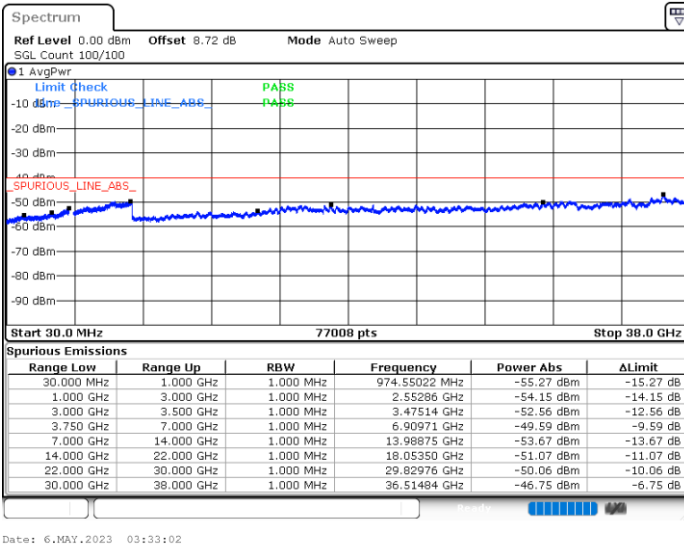


LTE Band 48 / 15MHz

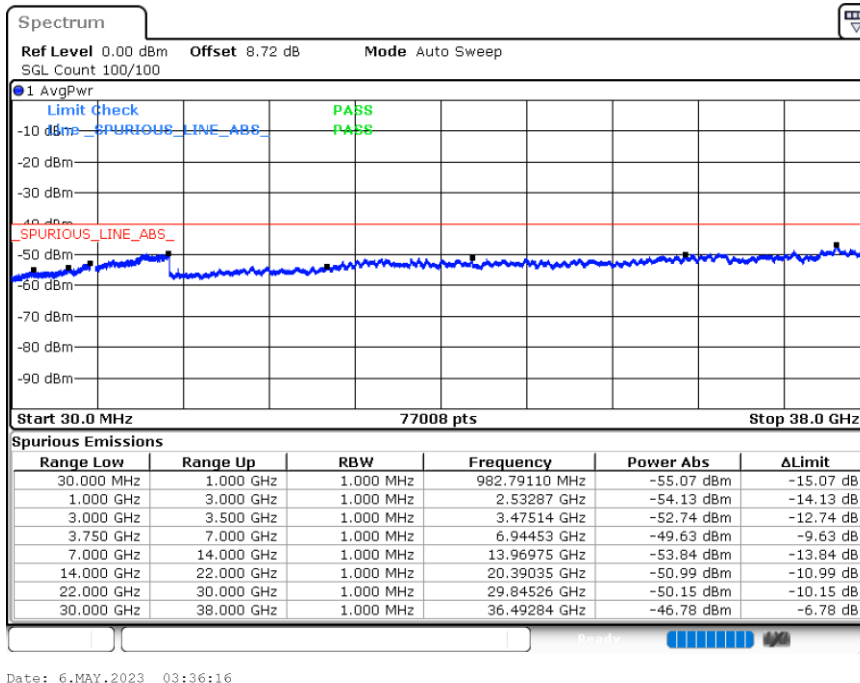
QPSK / 1RB0

Lowest Channel

Middle Channel



Highest Channel



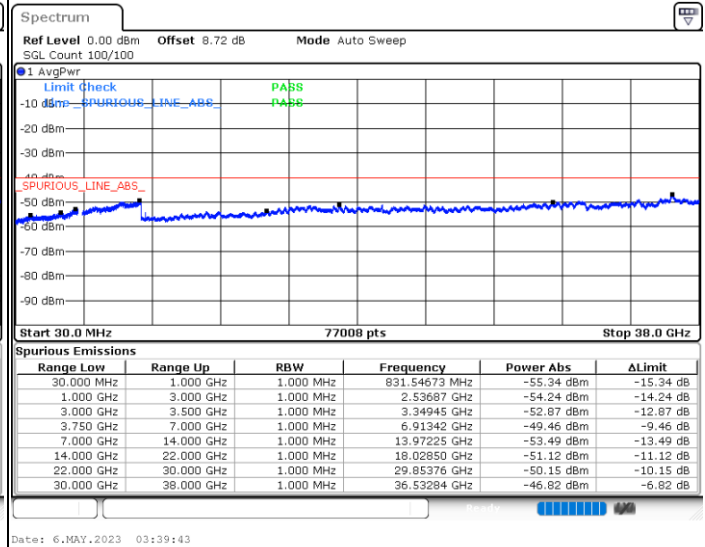
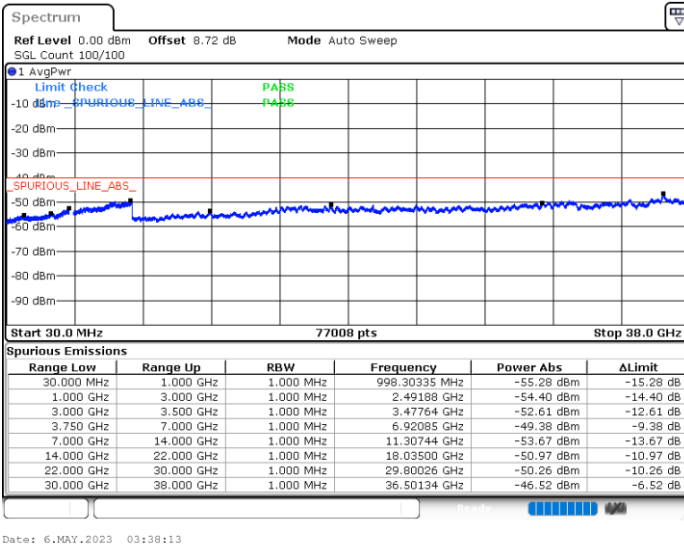


LTE Band 48 / 20MHz

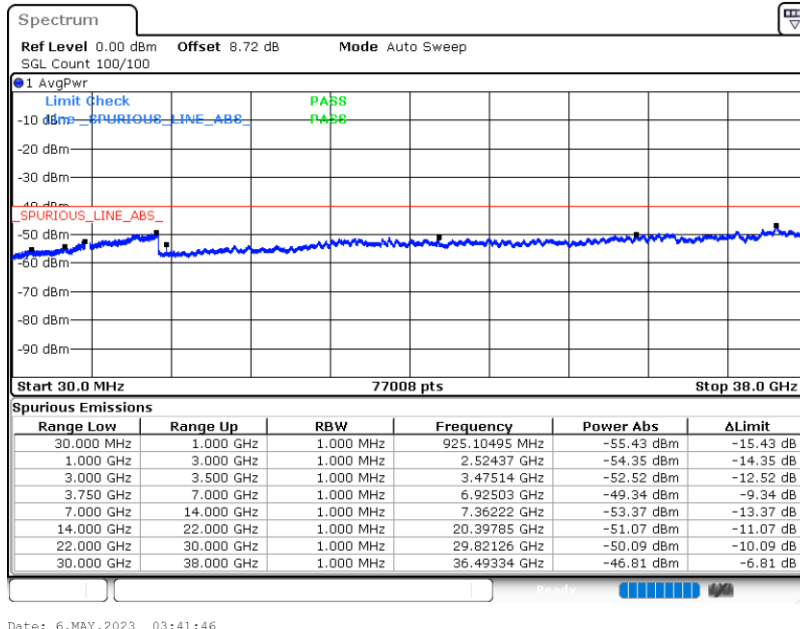
QPSK / 1RB0

Lowest Channel

Middle Channel



Highest Channel





A2.7 Frequency Stability

Test Conditions		LTE Band 48 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 10MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0021	PASS
40	Normal Voltage	0.0018	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0023	
0	Normal Voltage	0.0016	
-10	Normal Voltage	0.0025	
-20	Normal Voltage	0.0019	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0021	
20	Normal Voltage	0.0031	
20	Minimum Voltage	0.0042	

Note:

1. Normal Voltage =54 V. ; Minimum Voltage =48 V. ; Maximum Voltage =57 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



A3. LTE Band 48C

A3.1 EIRP PSD

Full RB

Mode	LTE Band 48C : EIRP PSD (dBm/1MHz)											
BW	5MHz+20MHz				10M+20M				15M+20M			
Mod.	QPSK	16QAM	64QAM	256Q	QPSK	16QAM	64QAM	256Q	QPSK	16QAM	64QAM	256Q
Lowest CH	34.44	34.41	34.30	32.65	33.86	33.67	33.60	31.92	32.63	32.68	32.61	30.90
Middle CH	34.50	34.48	34.43	32.76	33.66	33.64	33.61	32.12	32.78	32.75	32.91	31.09
Highest CH	34.50	34.65	34.68	32.77	33.70	33.73	33.70	32.03	32.68	32.76	32.73	31.19
Limit	37dBm /1MHz											
Gain	17.99											
Result	Pass											
Mode	LTE Band 48C : EIRP PSD (dBm/1MHz)											
BW	20M+5M				20M+10M				20M+15M			
Mod.	QPSK	16QAM	64QAM	256Q	QPSK	16QAM	64QAM	256Q	QPSK	16QAM	64QAM	256Q
Lowest CH	34.65	34.48	34.54	32.24	33.49	33.67	33.56	31.26	32.68	32.67	32.60	30.19
Middle CH	34.44	34.49	34.41	32.11	33.64	33.52	33.77	31.14	32.67	32.71	32.60	30.28
Highest CH	34.42	34.51	34.58	32.26	33.53	33.56	33.61	31.23	32.55	32.63	32.56	30.16
Limit	37dBm /1MHz											
Gain	17.99											
Result	Pass											
Mode	LTE Band 48C : EIRP PSD (dBm/1MHz)											
BW	20M+20M											
Mod.	QPSK	16QAM	64QAM	256Q								
Lowest CH	31.67	31.78	31.82	30.09								
Middle CH	31.71	31.68	31.83	30.19								
Highest CH	31.79	31.73	31.72	30.29								
Limit	37dBm /1MHz											
Gain	17.99											
Result	Pass											

**1RBMAX 1RB0**

Mode	LTE Band 48C : EIRP PSD (dBm/1MHz)											
BW	5MHz+20MHz				10MHz+20MHz				15MHz+20MHz			
Mod.	QPSK	16QAM	64QAM	256Q	QPSK	16QAM	64QAM	256Q	QPSK	16QAM	64QAM	256Q
Lowest CH	30.30	30.52	30.45	30.54	29.79	30.19	30.08	30.39	30.01	30.13	30.06	30.26
Middle CH	30.00	30.26	30.12	30.34	29.81	30.11	30.05	30.01	29.88	30.28	30.03	30.44
Highest CH	29.98	30.20	30.20	30.34	29.90	30.01	30.14	30.05	29.71	30.38	29.98	30.03
Limit	37dBm /1MHz											
Gain	17.99											
Result	Pass											
Mode	LTE Band 48C : EIRP PSD (dBm/1MHz)											
BW	20M+5M				20M+10M				20M+15M			
Mod.	QPSK	16QAM	64QAM	256Q	QPSK	16QAM	64QAM	256Q	QPSK	16QAM	64QAM	256Q
Lowest CH	29.96	30.35	30.13	30.40	30.03	30.03	30.13	30.33	29.74	30.11	30.03	30.4
Middle CH	30.16	30.51	30.18	30.45	29.97	29.99	30.21	30.18	29.91	30.55	29.79	30.01
Highest CH	30.04	30.47	30.12	30.29	29.74	30.19	29.89	30.17	29.92	30.17	30.15	30.17
Limit	37dBm /1MHz											
Gain	17.99											
Result	Pass											
Mode	LTE Band 48C : EIRP PSD (dBm/1MHz)											
BW	20M+20M											
Mod.	QPSK	16QAM	64QAM	256Q								
Lowest CH	29.82	29.91	29.81	30.17								
Middle CH	29.81	30.14	29.88	29.89								
Highest CH	29.99	29.97	30.20	29.72								
Limit	37dBm /1MHz											
Gain	17.99											
Result	Pass											

**1RB0 1RBMAX**

Mode	LTE Band 48C : EIRP PSD (dBm/1MHz)											
BW	5MHz+20MHz				10MHz+20MHz				15MHz+20MHz			
Mod.	QPSK	16QAM	64QAM	256Q	QPSK	16QAM	64QAM	256Q	QPSK	16QAM	64QAM	256Q
Lowest CH	27.33	27.70	27.43	27.52	27.01	27.22	27.22	27.25	27.27	27.44	27.57	27.51
Middle CH	27.47	27.30	27.35	27.33	27.02	27.24	27.49	27.30	27.37	27.65	27.59	27.39
Highest CH	27.24	27.43	27.25	27.48	27.17	27.46	27.43	27.06	27.22	27.47	27.25	27.52
Limit	37dBm /1MHz											
Gain	17.99											
Result	Pass											
Mode	LTE Band 48C : EIRP PSD (dBm/1MHz)											
BW	20M+5M				20M+10M				20M+15M			
Mod.	QPSK	16QAM	64QAM	256Q	QPSK	16QAM	64QAM	256Q	QPSK	16QAM	64QAM	256Q
Lowest CH	27.34	27.73	27.38	27.65	27.04	27.31	27.62	27.23	27.15	27.58	27.25	27.33
Middle CH	27.50	27.90	27.63	27.71	27.05	27.27	27.24	27.59	27.33	27.42	27.33	27.33
Highest CH	27.41	27.56	27.64	27.52	27.14	27.23	27.35	27.53	27.18	27.53	27.37	27.38
Limit	37dBm /1MHz											
Gain	17.99											
Result	Pass											
Mode	LTE Band 48C : EIRP PSD (dBm/1MHz)											
BW	20M+20M											
Mod.	QPSK	16QAM	64QAM	256Q								
Lowest CH	27.10	27.34	27.40	27.36								
Middle CH	27.13	27.32	27.29	27.50								
Highest CH	27.26	27.40	27.26	27.44								
Limit	37dBm /1MHz											
Gain	17.99											
Result	Pass											

A3.2 26dB Bandwidth

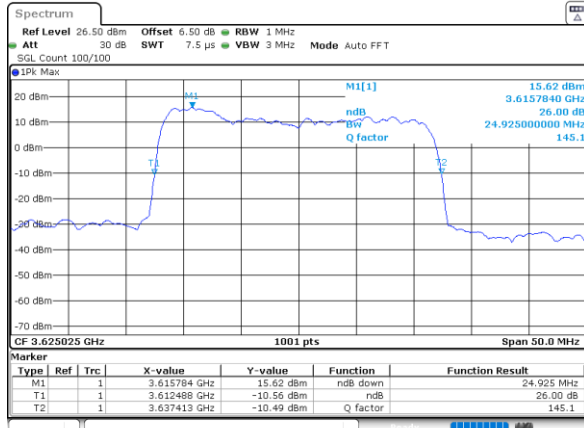
Mode	LTE Band 48C : 26dB BW(MHz)			
BW	5MHz+20MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	24.93	24.83	24.93	24.88
BW	10MHz+20MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	30.09	30.03	30.27	30.03
BW	15MHz+20MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	35.04	34.90	34.90	34.90
BW	20MHz+5MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	24.98	24.83	24.88	24.88
BW	20MHz+10MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	30.03	30.03	29.97	30.15
BW	20MHz+15MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	35.04	34.97	35.18	34.97
BW	20MHz+20MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	39.96	39.80	39.80	39.80



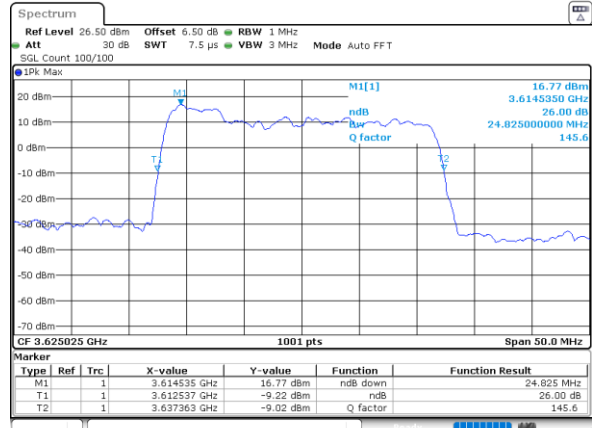
LTE Band 48 / Middle channel / Full RB

5MHz+20MHz

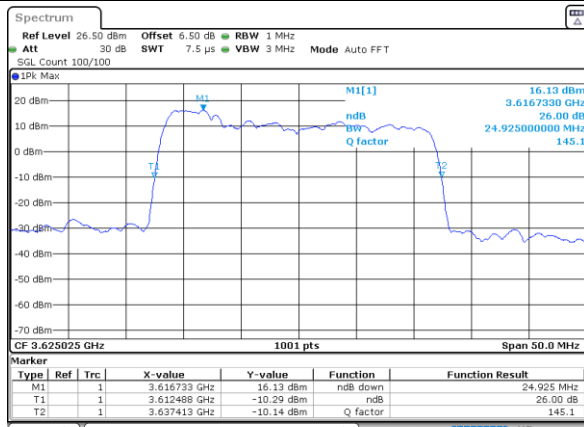
QPSK



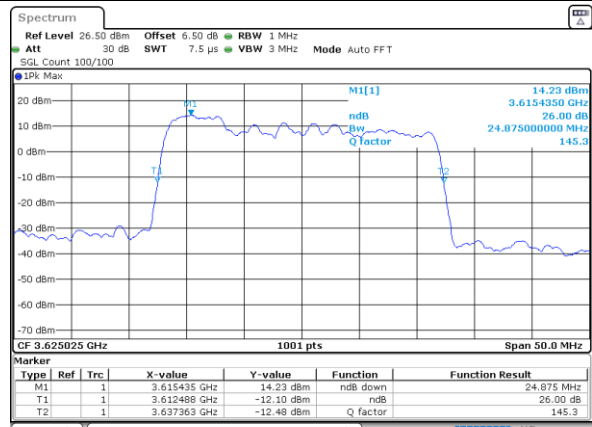
16QAM



64QAM

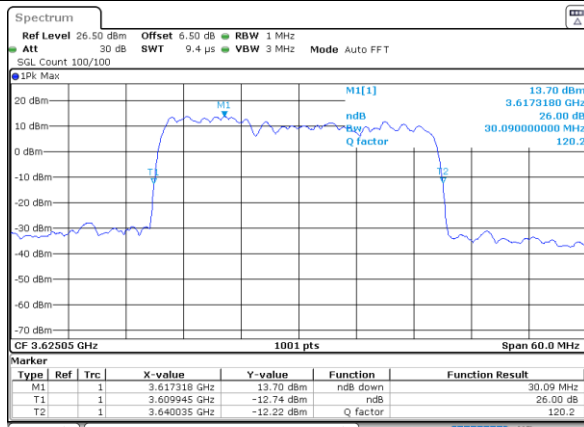


256QAM

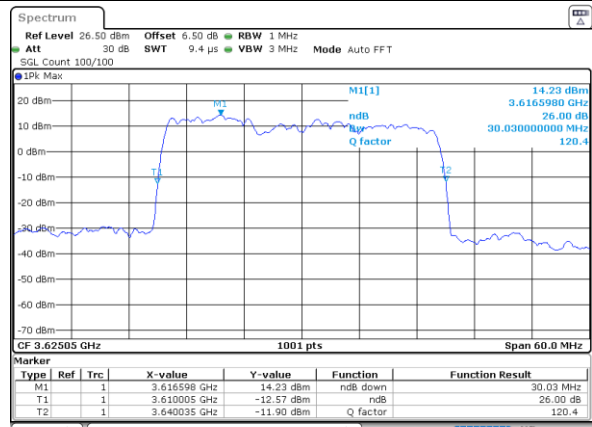


10MHz+20MHz

QPSK

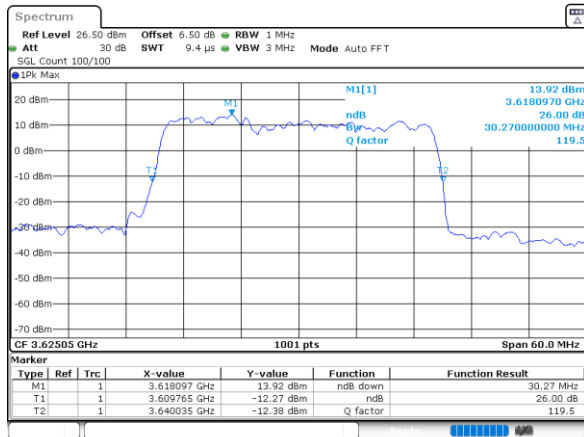


16QAM



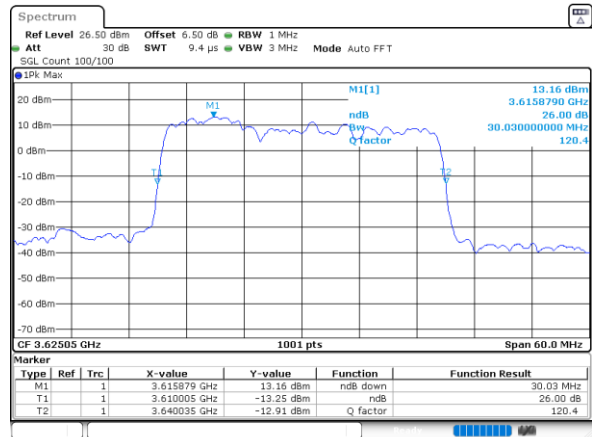


64QAM



Date: 16.MAY.2023 06:42:12

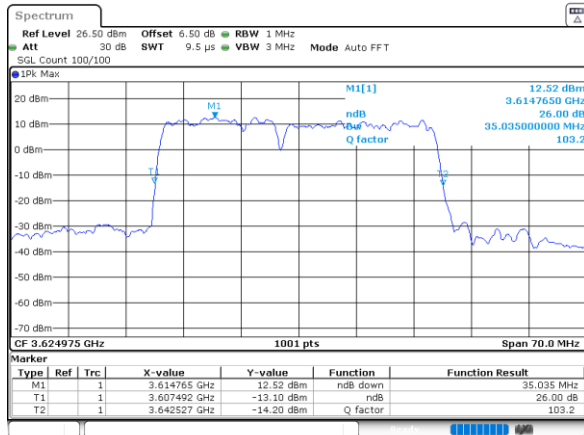
256QAM



Date: 16.MAY.2023 06:43:06

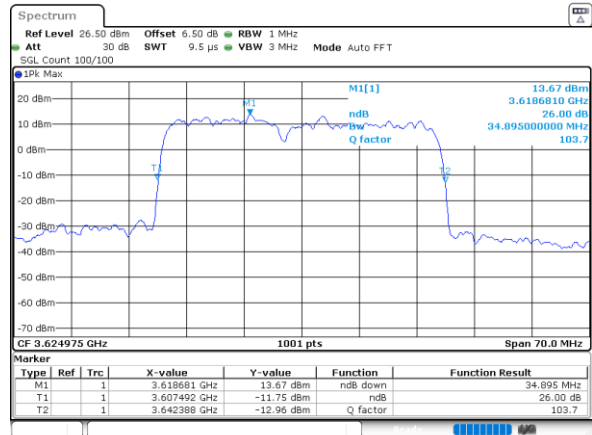
15MHz+20MHz

QPSK



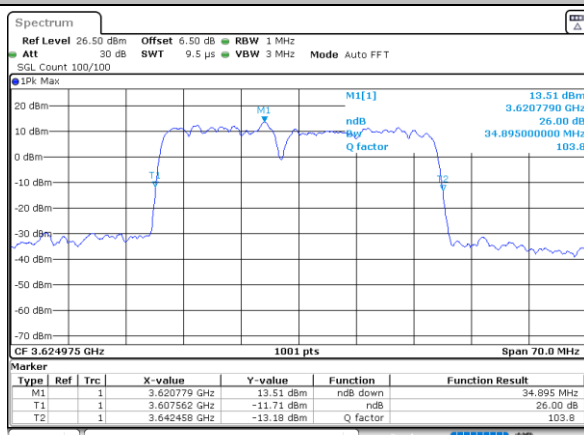
Date: 16.MAY.2023 06:14:09

16QAM



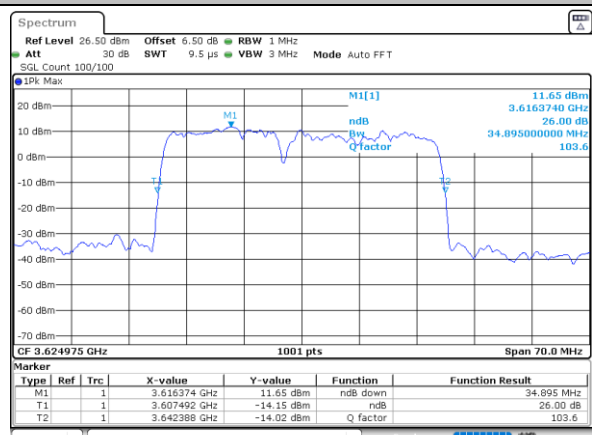
Date: 16.MAY.2023 06:15:30

64QAM



Date: 16.MAY.2023 06:38:27

256QAM

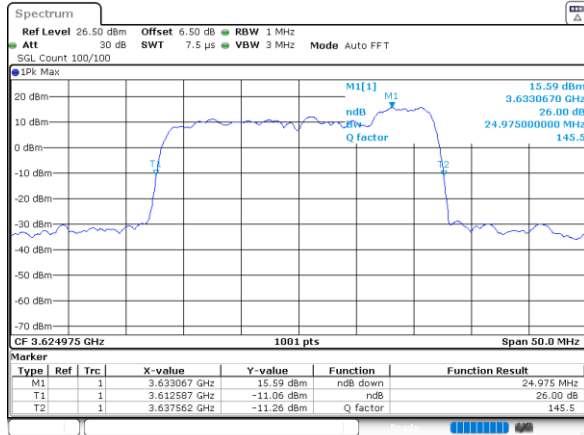


Date: 16.MAY.2023 06:39:27



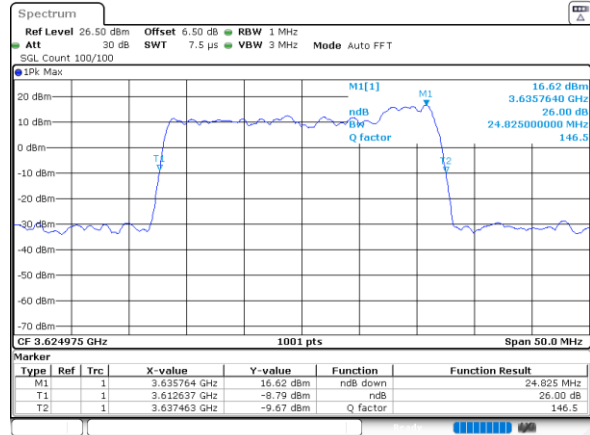
20MHz+5MHz

QPSK



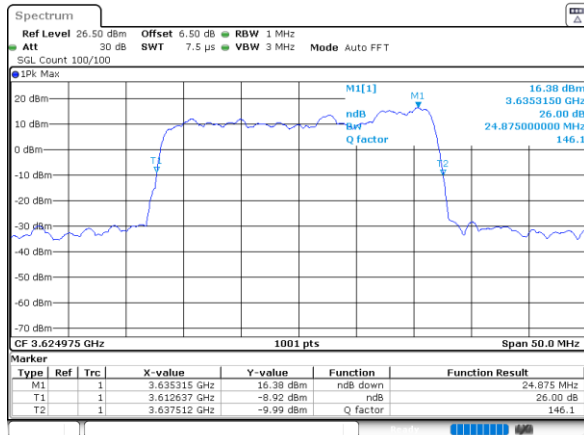
Date: 16.MAY.2023 06:16:02

16QAM



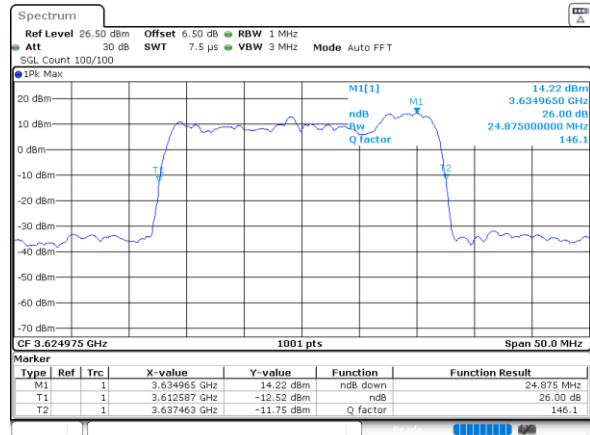
Date: 16.MAY.2023 06:17:24

64QAM



Date: 16.MAY.2023 06:13:53

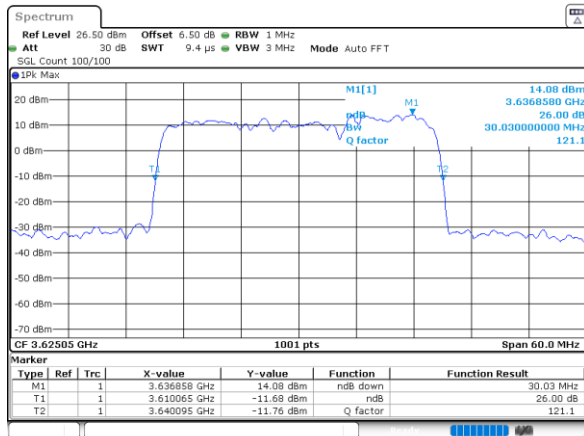
256QAM



Date: 16.MAY.2023 06:13:15

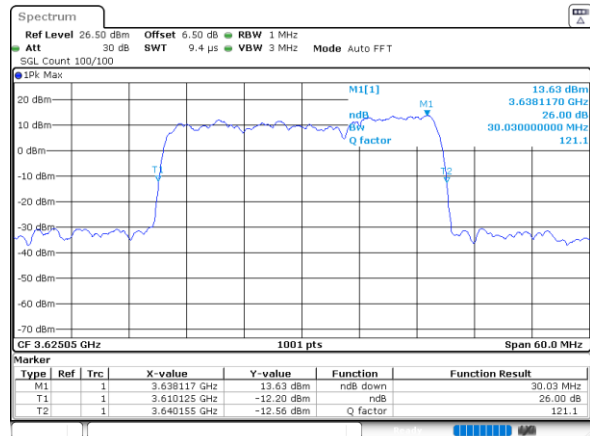
20MHz+10MHz

QPSK



Date: 16.MAY.2023 06:17:58

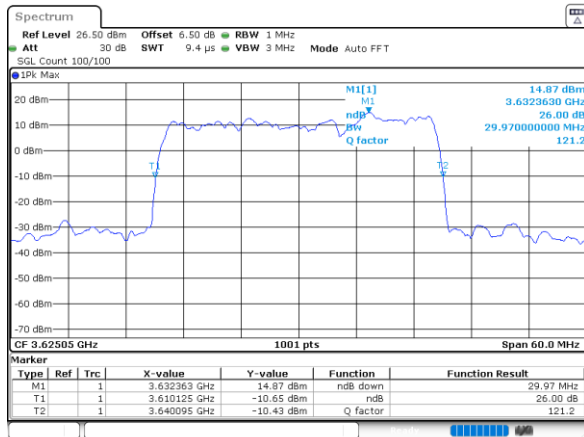
16QAM



Date: 16.MAY.2023 06:19:19

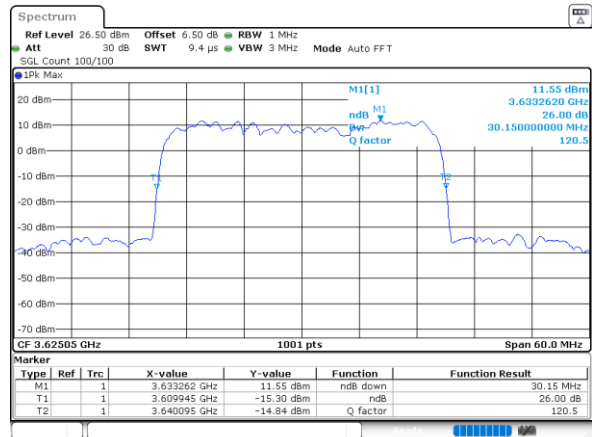


64QAM



Date: 16.MAY.2023 06:32:55

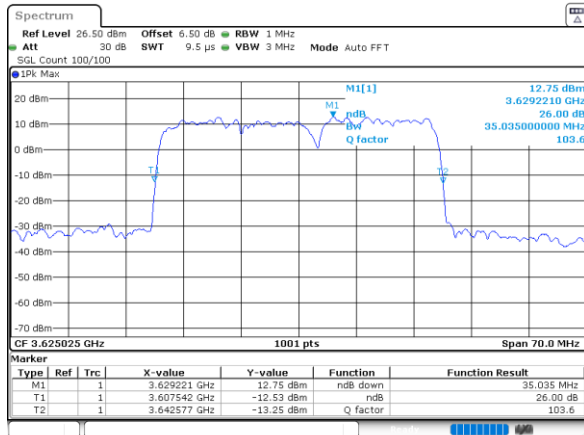
256QAM



Date: 16.MAY.2023 06:33:49

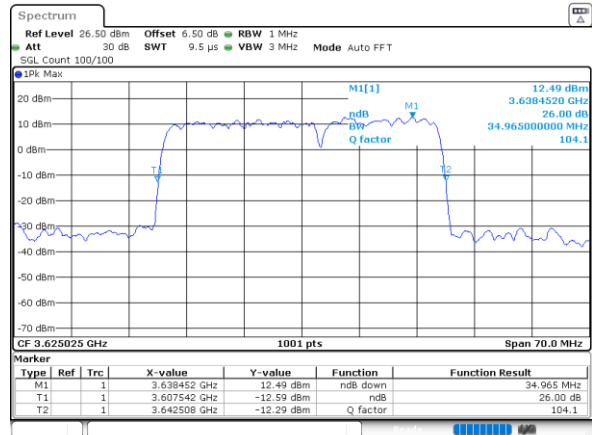
20MHz+15MHz

QPSK



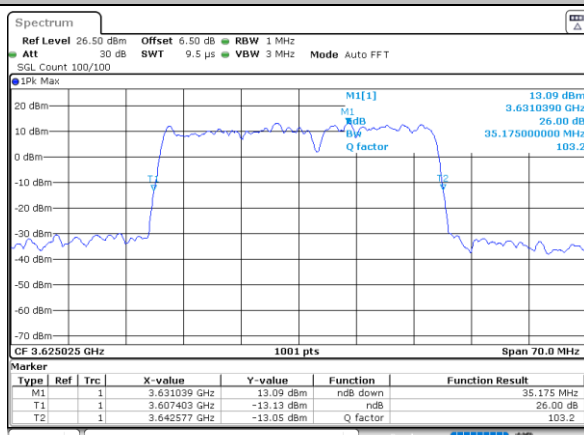
Date: 16.MAY.2023 06:19:56

16QAM



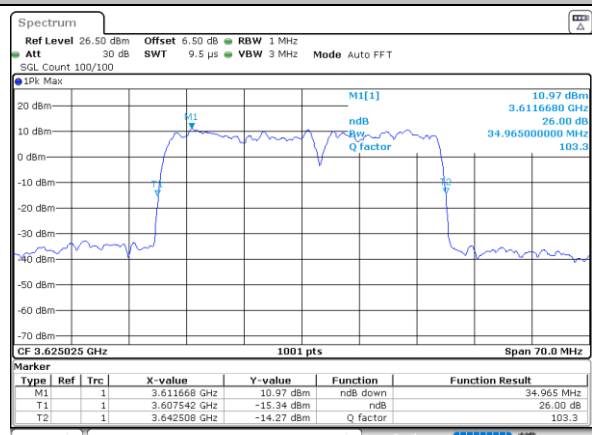
Date: 16.MAY.2023 06:21:18

64QAM



Date: 16.MAY.2023 06:30:49

256QAM

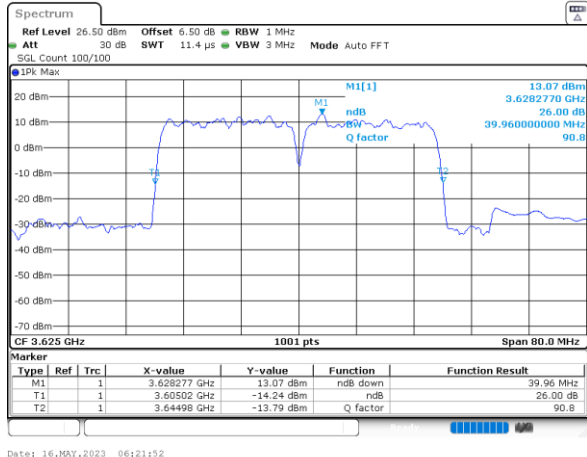


Date: 16.MAY.2023 06:31:44

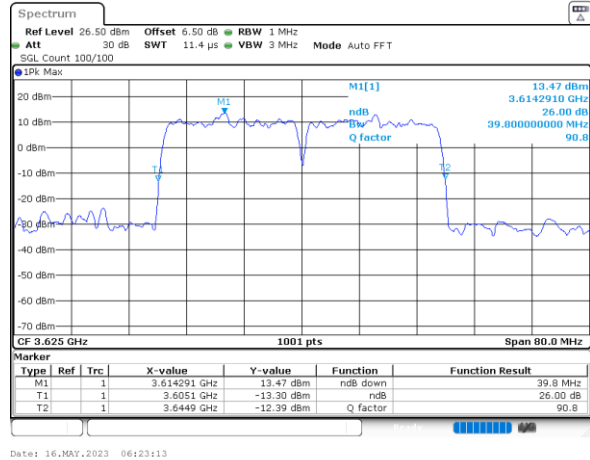


20MHz+20MHz

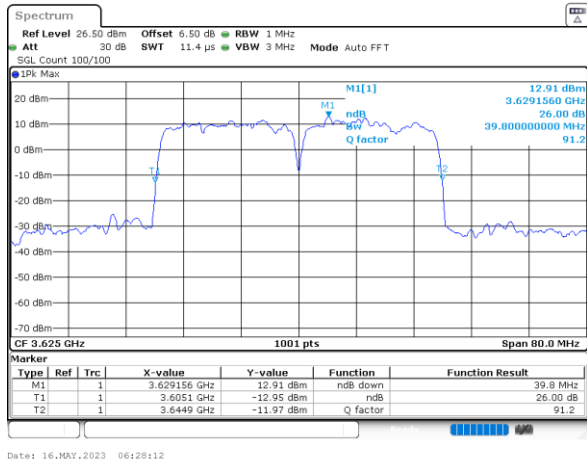
QPSK



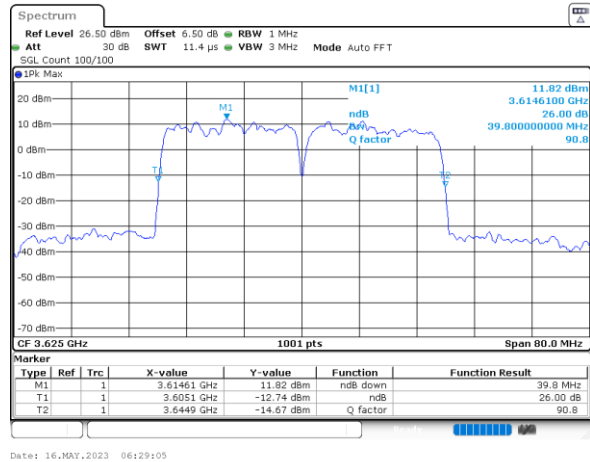
16QAM



64QAM



256QAM





A3.3 Occupied Bandwidth

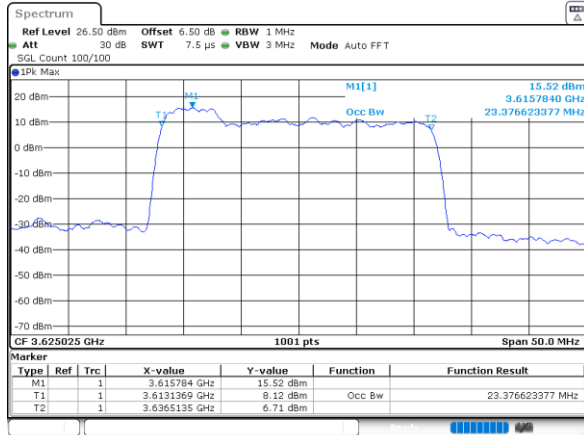
BW	5MHz+20MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	23.38	23.28	23.08	23.38
BW	10MHz+20MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	28.11	27.99	27.93	27.99
BW	15MHz+20MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	32.87	32.94	32.94	32.66
BW	20MHz+5MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	23.33	23.53	23.28	23.23
BW	20MHz+10MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	28.05	28.29	27.93	28.11
BW	20MHz+15MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	33.08	32.94	33.01	32.80
BW	20MHz+20MHz			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	37.56	37.72	37.72	37.72



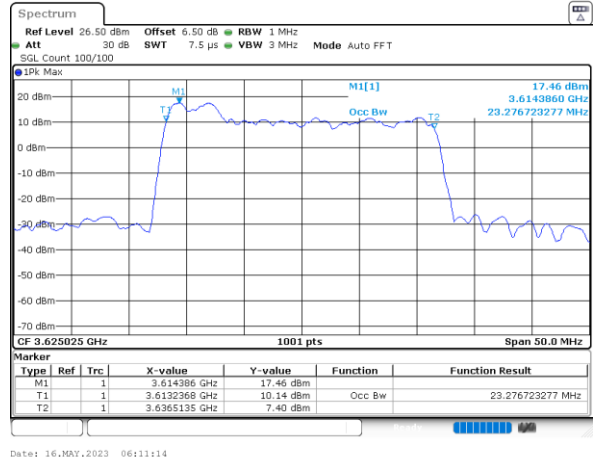
LTE Band 48 / Middle channel / Full RB

5MHz+20MHz

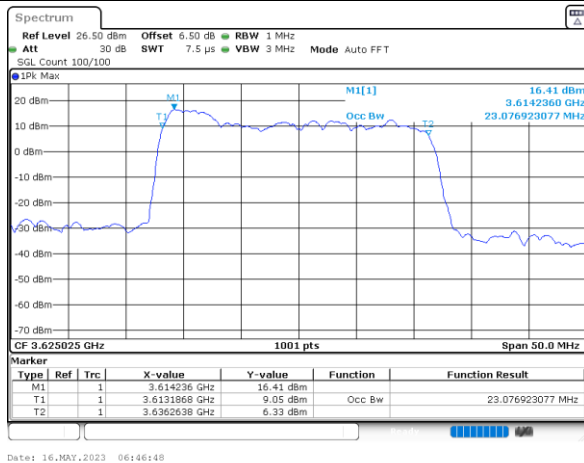
QPSK



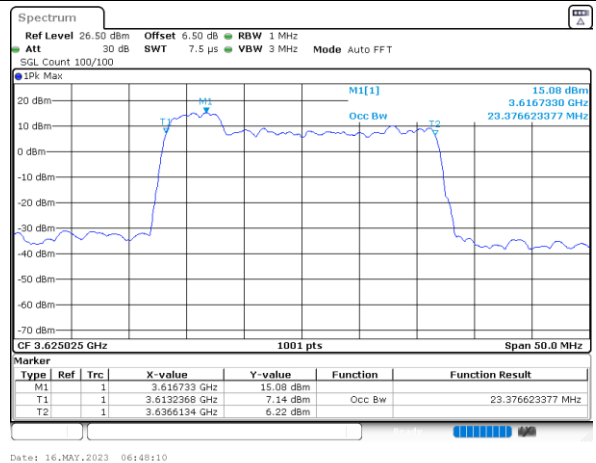
16QAM



64QAM

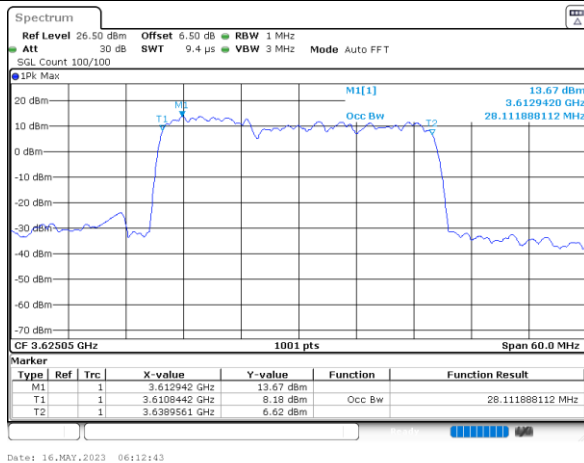


256QAM

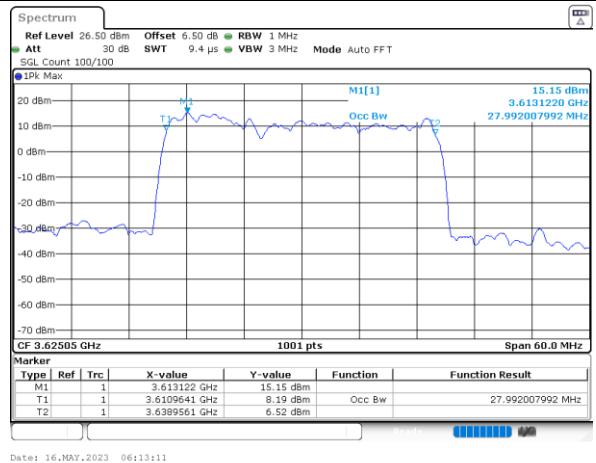


10MHz+20MHz

QPSK

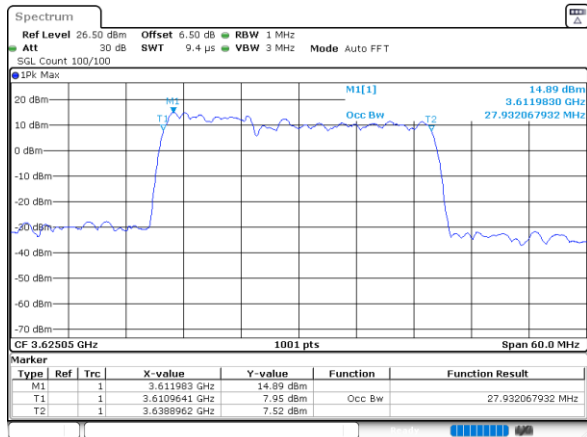


16QAM

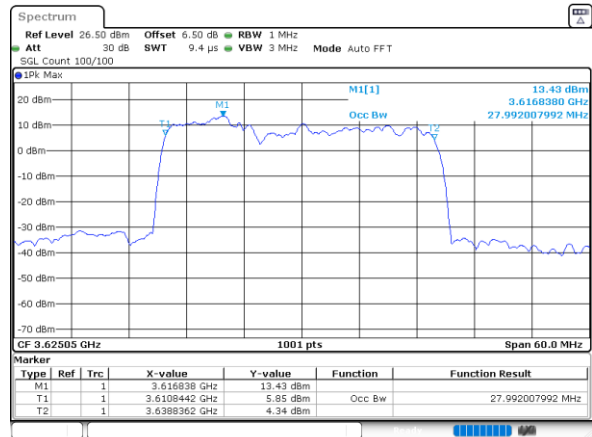




64QAM

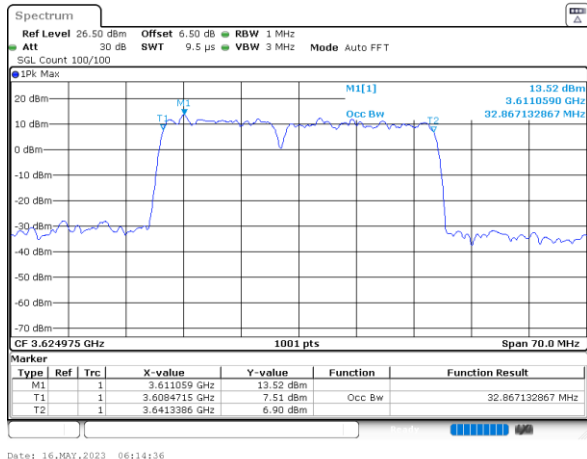


256QAM

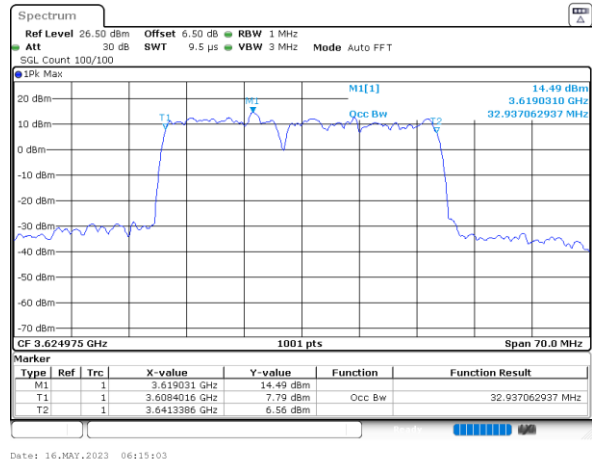


15MHz+20MHz

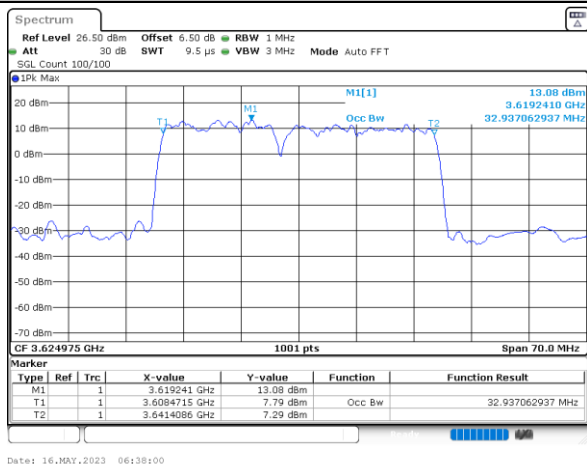
QPSK



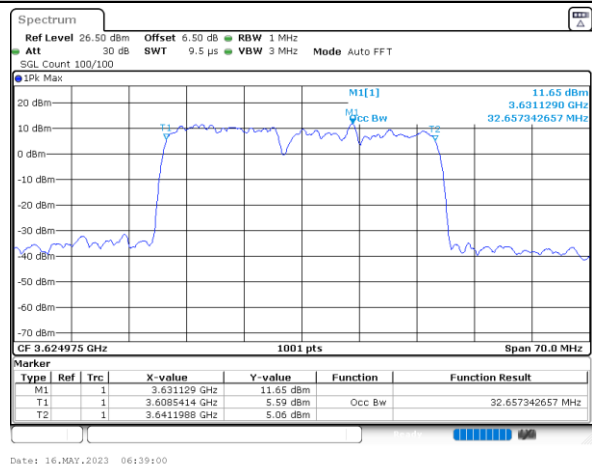
16QAM



64QAM



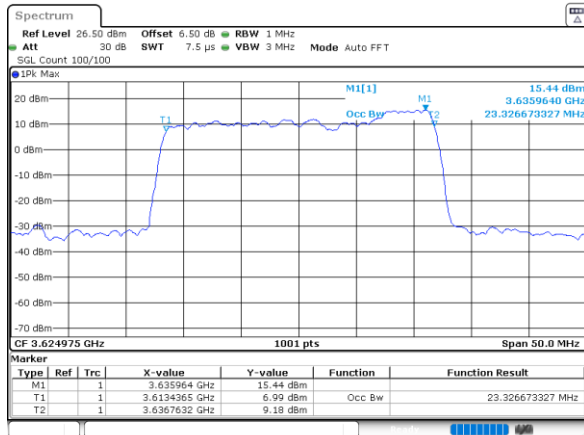
256QAM





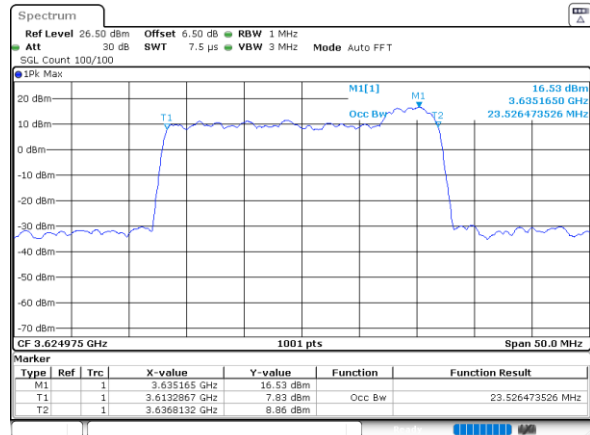
20MHz+5MHz

QPSK



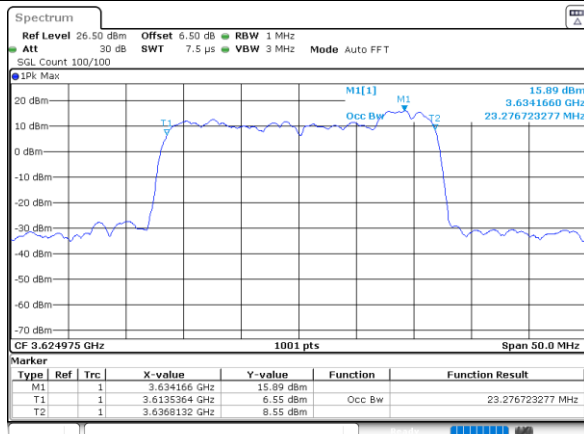
Date: 16.MAY.2023 06:16:29

16QAM



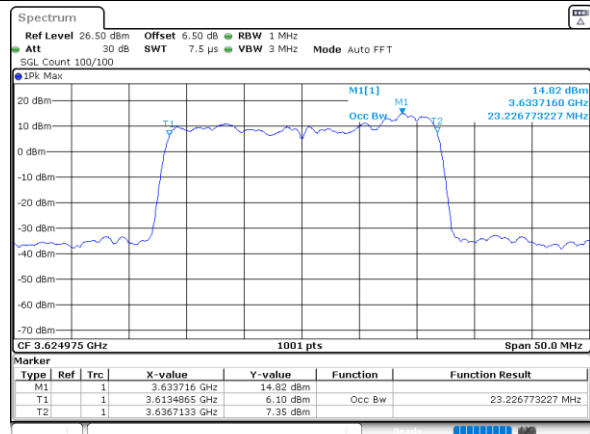
Date: 16.MAY.2023 06:16:57

64QAM



Date: 16.MAY.2023 06:13:27

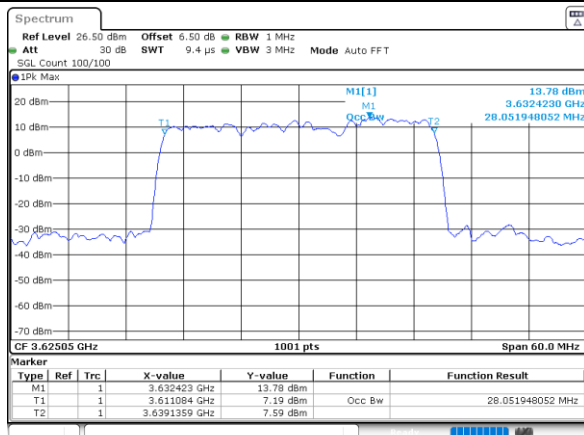
256QAM



Date: 16.MAY.2023 06:13:50

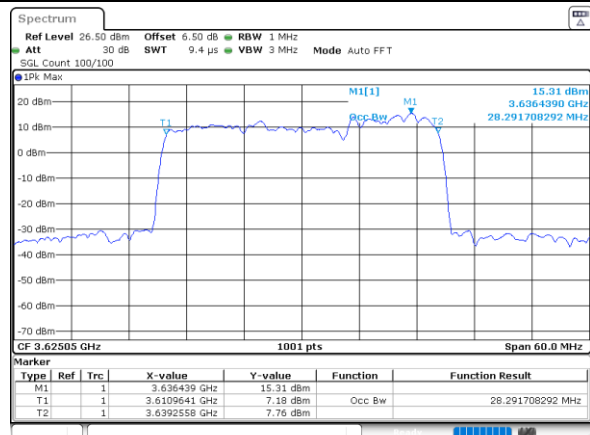
20MHz+10MHz

QPSK



Date: 16.MAY.2023 06:18:25

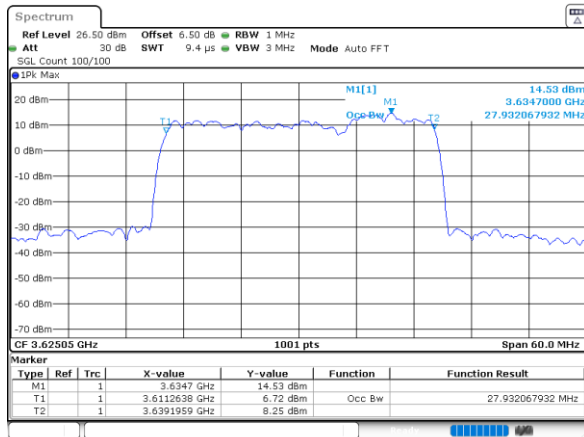
16QAM



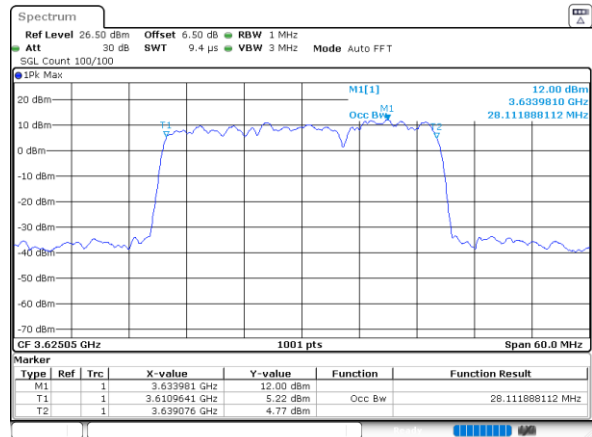
Date: 16.MAY.2023 06:18:52



64QAM

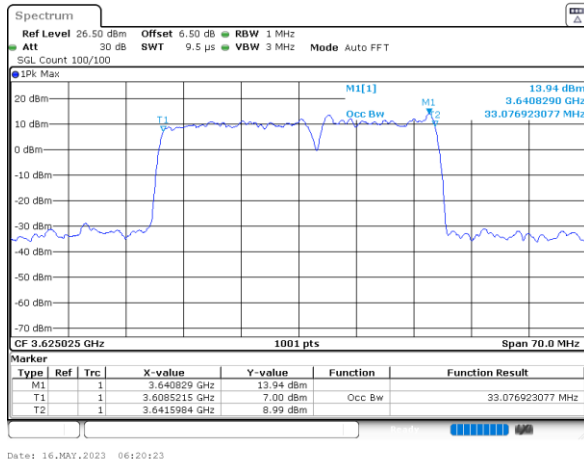


256QAM

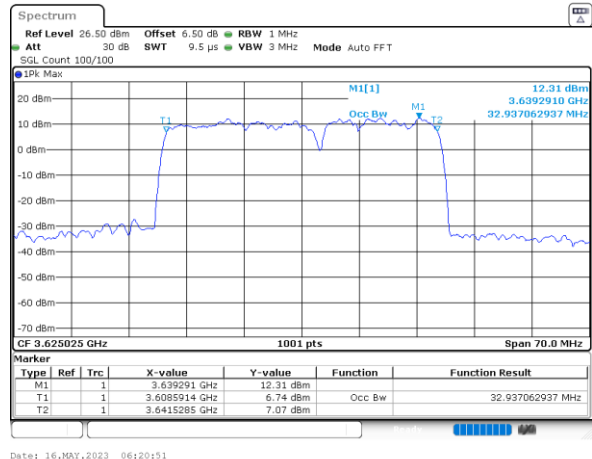


20MHz+15MHz

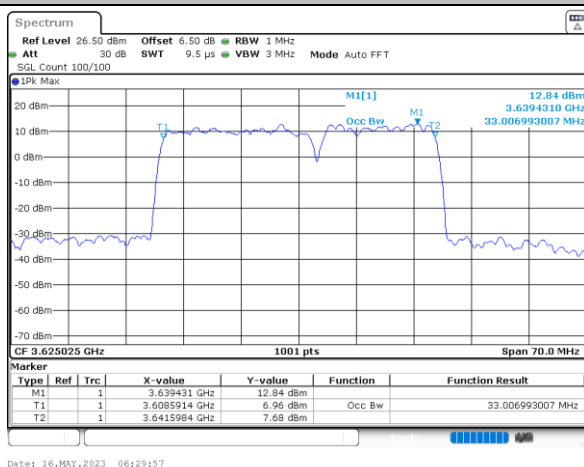
QPSK



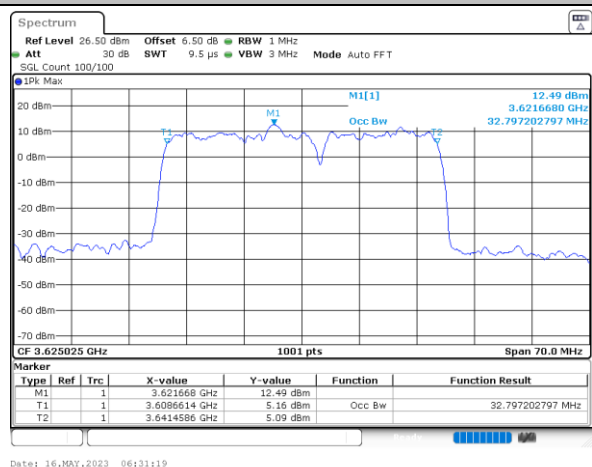
16QAM



64QAM



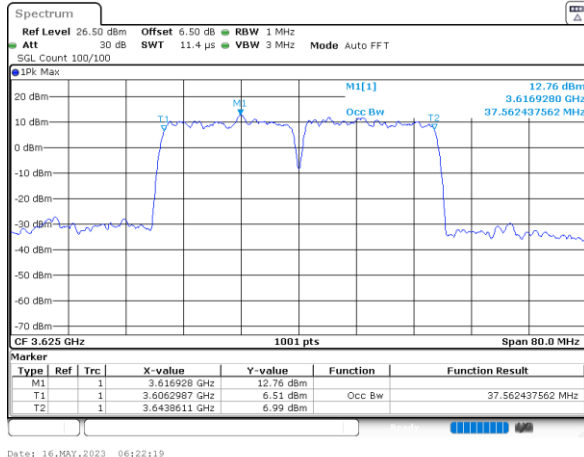
256QAM



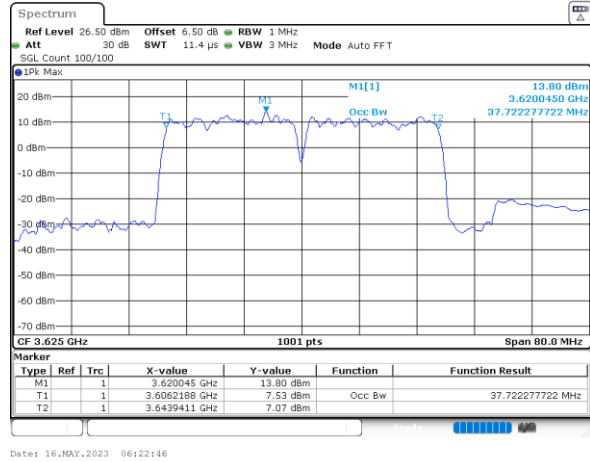


20MHz+20MHz

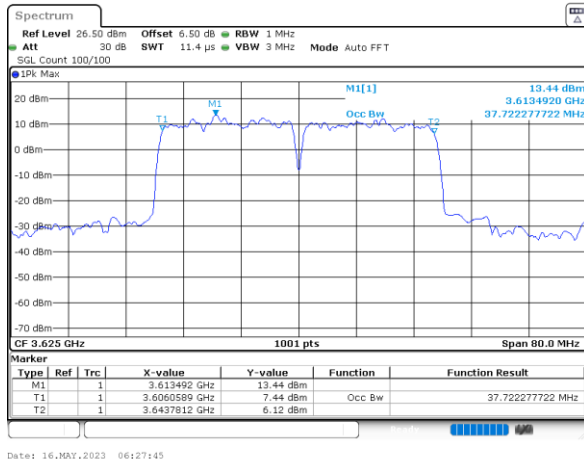
QPSK



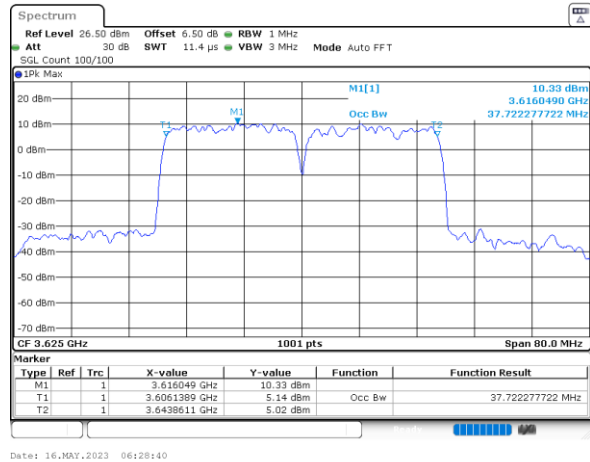
16QAM



64QAM



256QAM



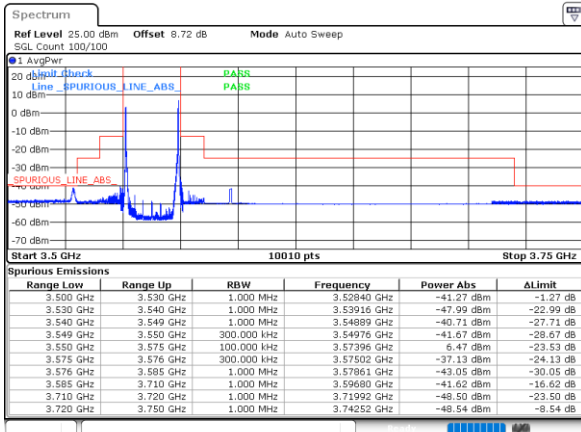


A3.4 Conducted Band Edge

LTE Band 48C / 5MHz+20MHz

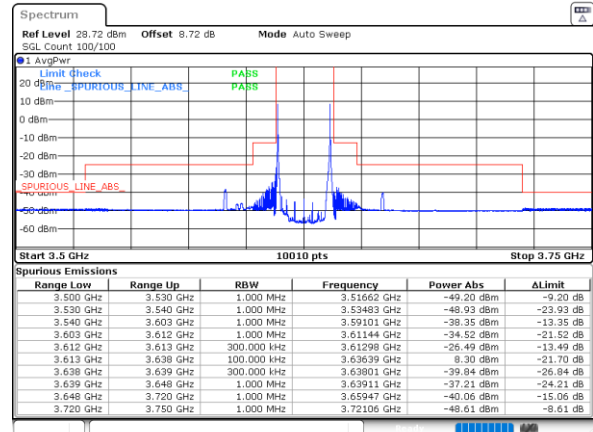
QPSK

Lowest Band Edge / 1RB0 and 1RB99



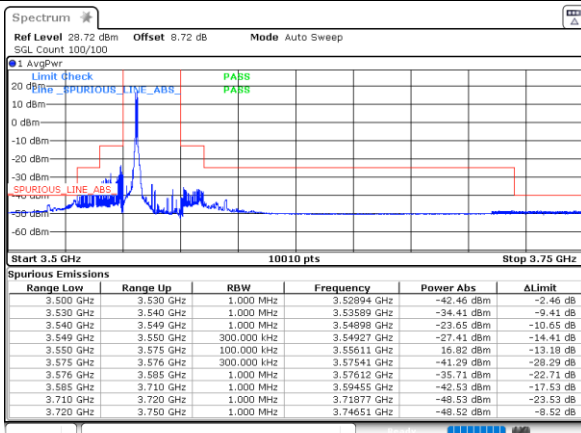
Date: 5.MAY.2023 22:21:56

Middle Band Edge / 1RB0 and 1RB99



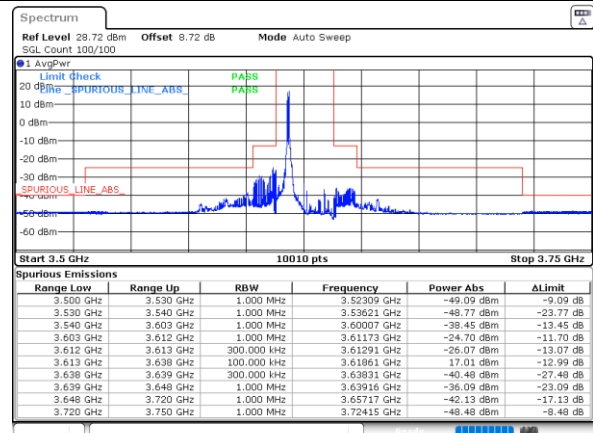
Date: 21.APR.2023 22:12:29

Lowest Band Edge / 1RB24 and 1RB0



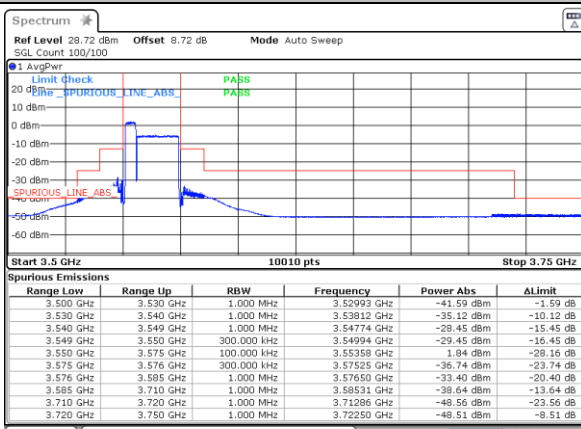
Date: 21.APR.2023 21:52:45

Middle Band Edge / 1RB24 and 1RB0



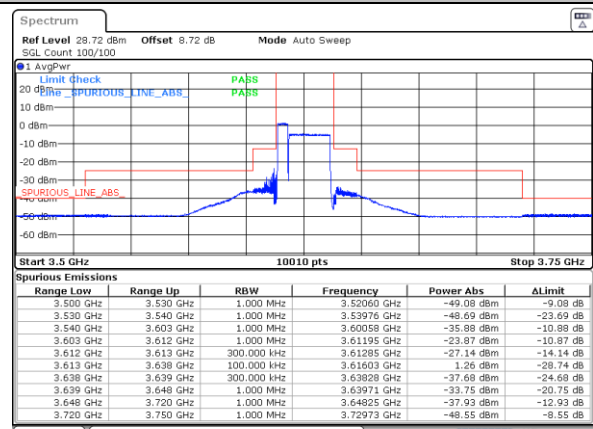
Date: 21.APR.2023 22:12:18

Lowest Band Edge / Full RB



Date: 21.APR.2023 21:33:07

Middle Band Edge / Full RB



Date: 21.APR.2023 22:02:40

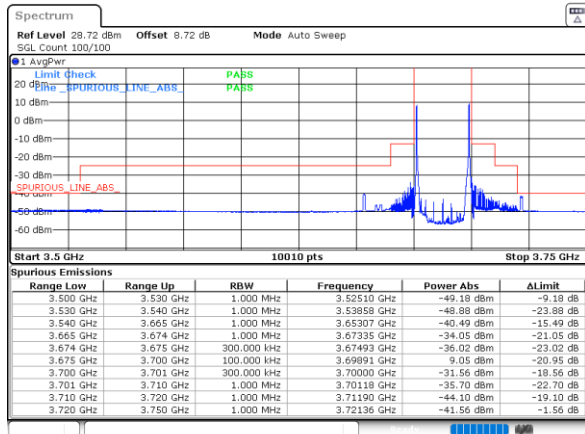


LTE Band 48C / 5MHz+20MHz

QPSK

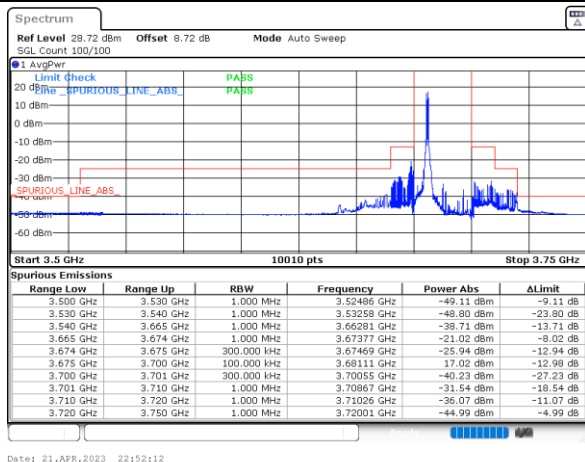
Highest Band Edge / 1RB0 and 1RB99

N/A



Highest Band Edge / 1RB24 and 1RB0

N/A



Highest Band Edge / Full RB

N/A

