

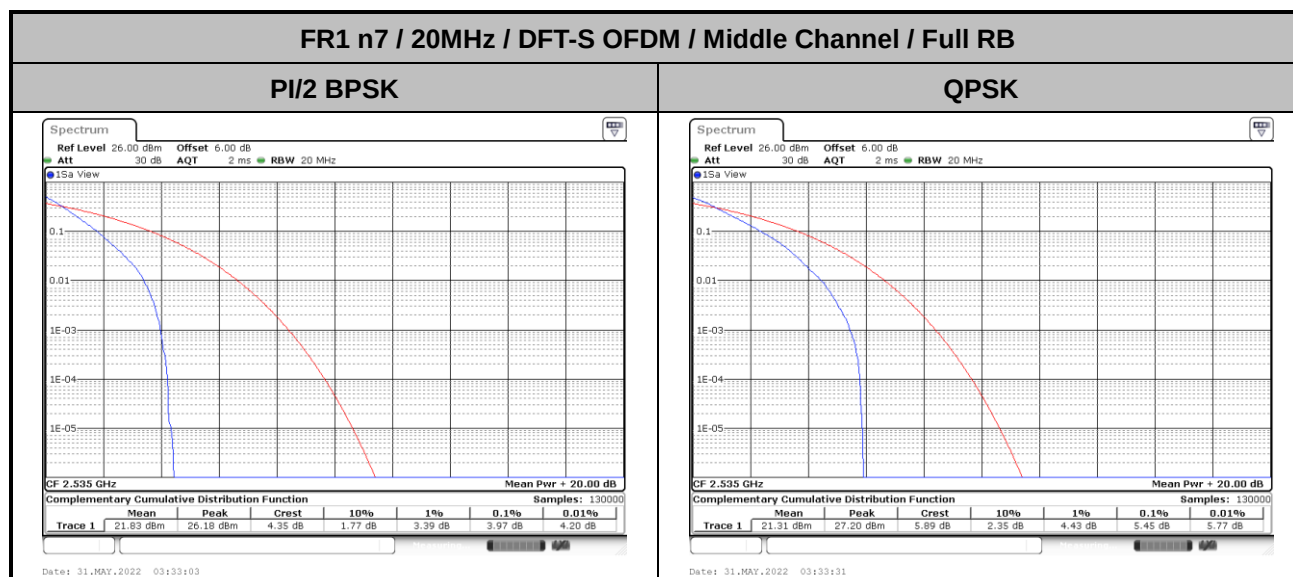


Other PA

FR1 5A-n7

Peak-to-Average Ratio

Mode	FR1 n7 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK			Limit: 13dB
RB Size	Full RB	Full RB			Result
Middle CH	3.97	5.45			PASS





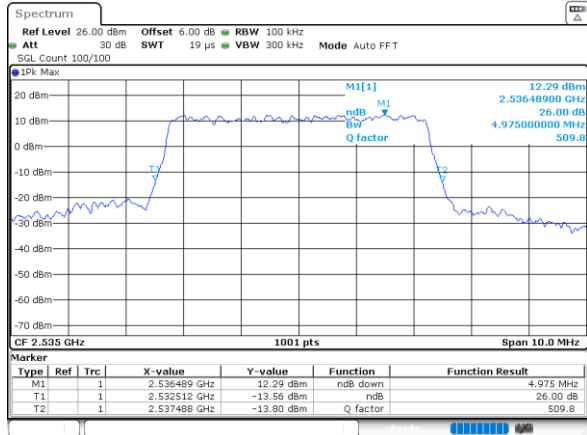
26dB Bandwidth

Mode	FR1 n7 : 26dBW (MHz) / CP OFDM									
BW	5M					10M				
Mod.		QPSK	16QAM	64QAM	256QAM		QPSK	16QAM	64QAM	256QAM
Middle CH		4.98	4.94	4.94	4.98		10.05	9.99	10.15	10.01
BW	15M					20M				
Mod.		QPSK	16QAM	64QAM	256QAM		QPSK	16QAM	64QAM	256QAM
Middle CH		15.02	14.90	15.02	14.93		21.22	21.26	21.18	21.14

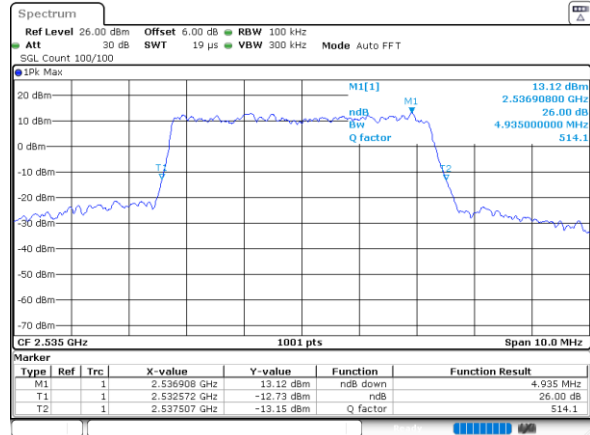


FR1 n7 / 5MHz / CP OFDM / Middle Channel / Full RB

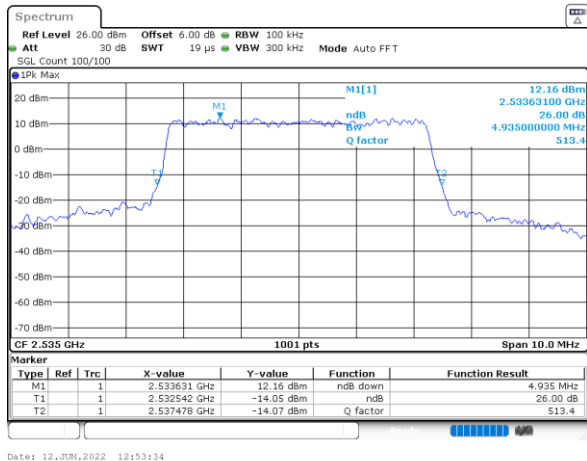
QPSK



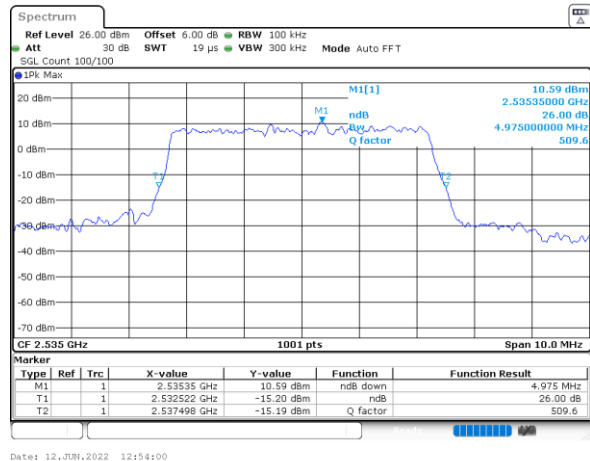
16QAM



64QAM



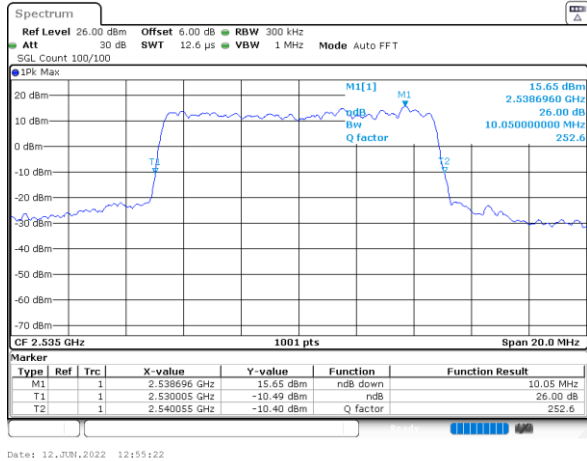
256QAM



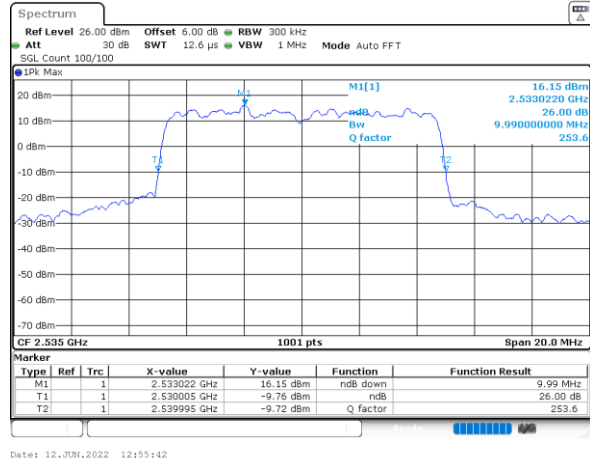


FR1 n7 / 10MHz / CP OFDM / Middle Channel / Full RB

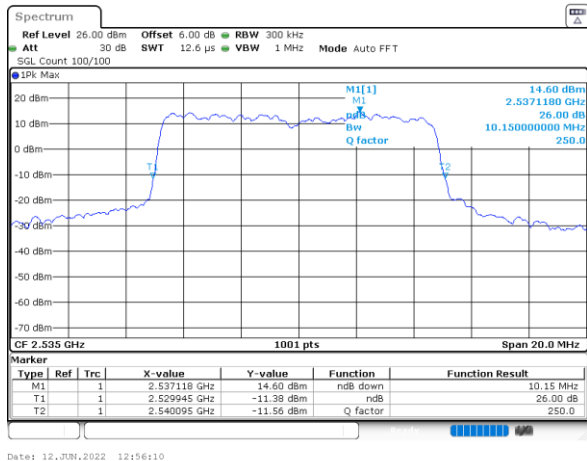
QPSK



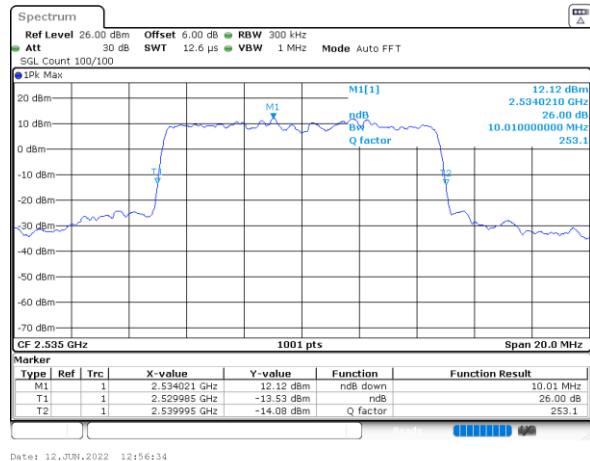
16QAM



64QAM



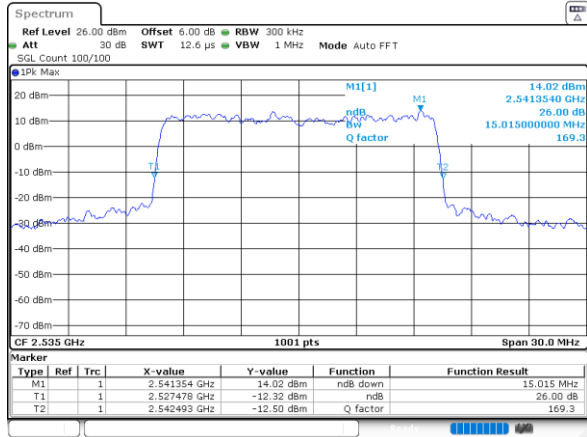
256QAM





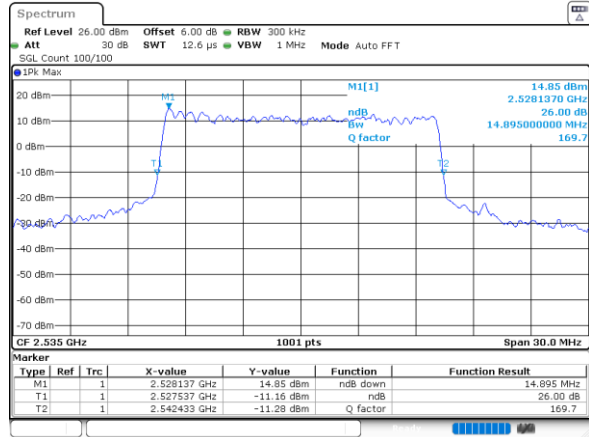
FR1 n7 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



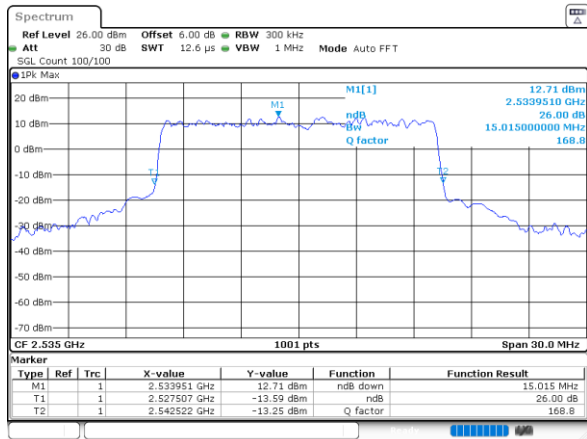
Date: 12 JUN 2022 12:58:47

16QAM



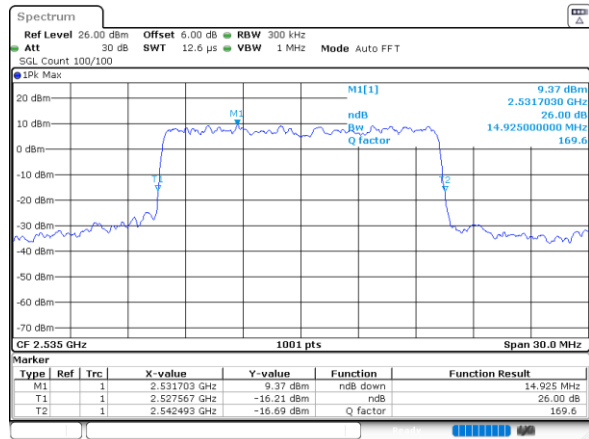
Date: 12 JUN 2022 12:58:10

64QAM



Date: 12 JUN 2022 12:57:29

256QAM

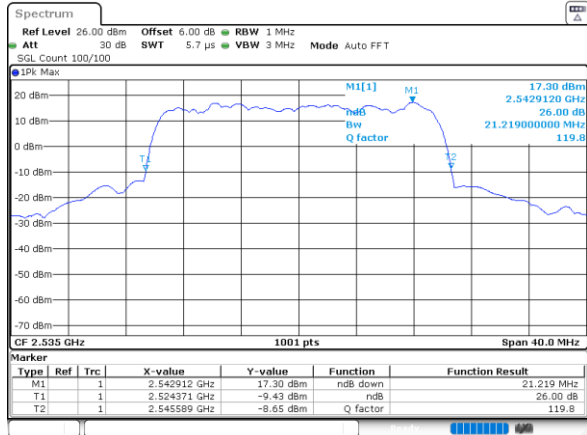


Date: 12 JUN 2022 12:57:07

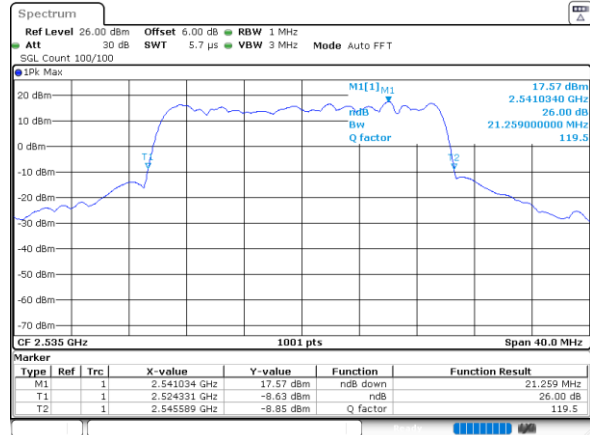


FR1 n7 / 20MHz / CP OFDM / Middle Channel / Full RB

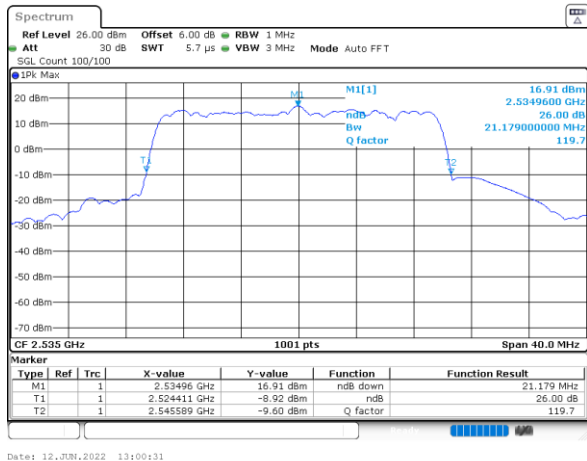
QPSK



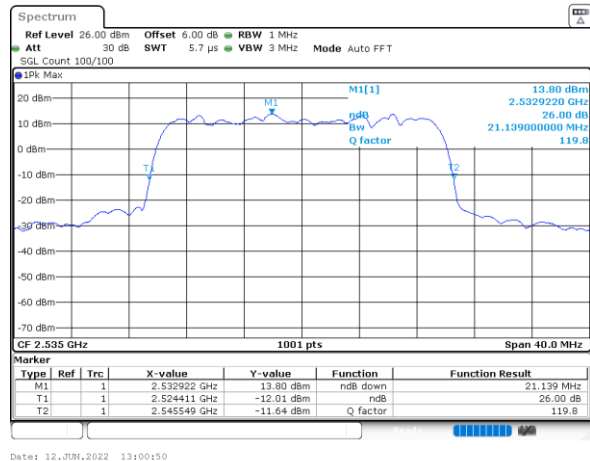
16QAM



64QAM



256QAM





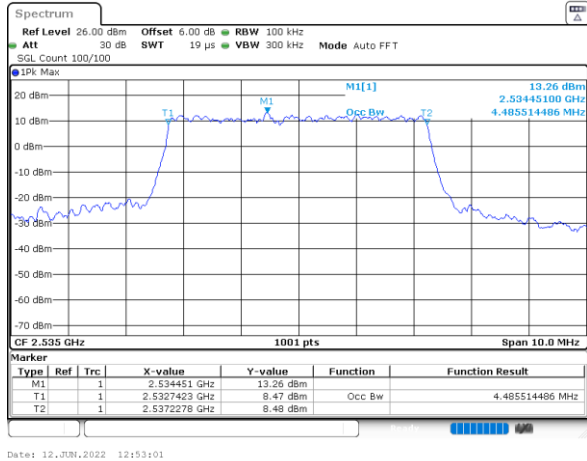
Occupied Bandwidth

Mode	FR1 n7 : OB (MHz) / CP OFDM									
BW	5M					10M				
Mod.		QPSK	16QAM	64QAM	256QAM		QPSK	16QAM	64QAM	256QAM
Middle CH		4.49	4.49	4.49	4.50		9.39	9.37	9.43	9.39
BW	15M					20M				
Mod.		QPSK	16QAM	64QAM	256QAM		QPSK	16QAM	64QAM	256QAM
Middle CH		14.18	14.15	14.15	14.21		19.46	19.42	19.42	19.38

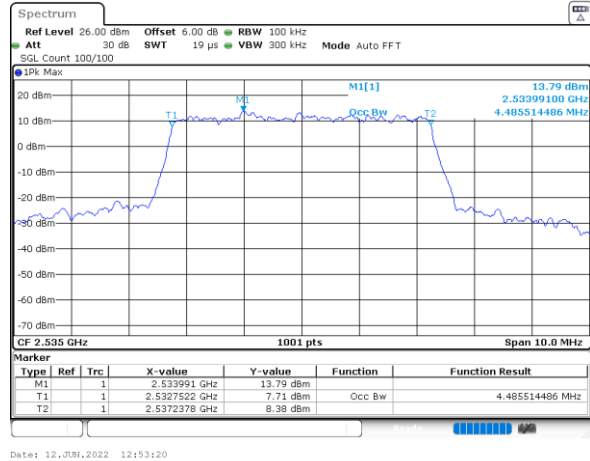


FR1 n7 / 5MHz / CP OFDM / Middle Channel / Full RB

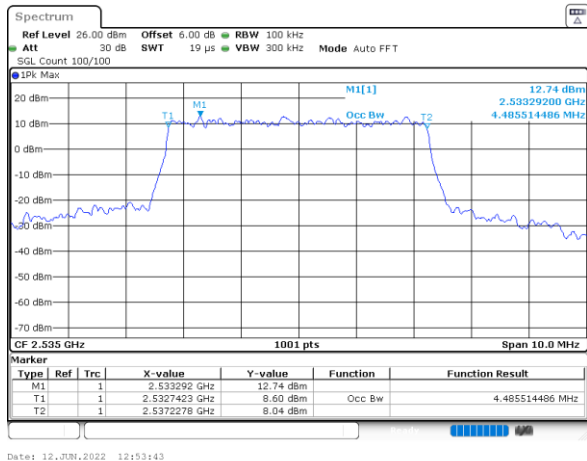
QPSK



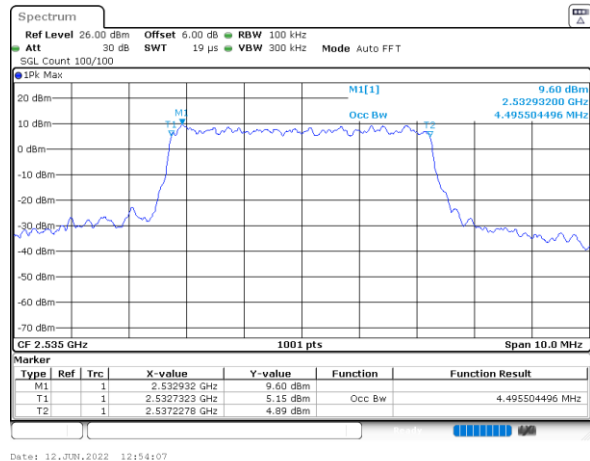
16QAM



64QAM



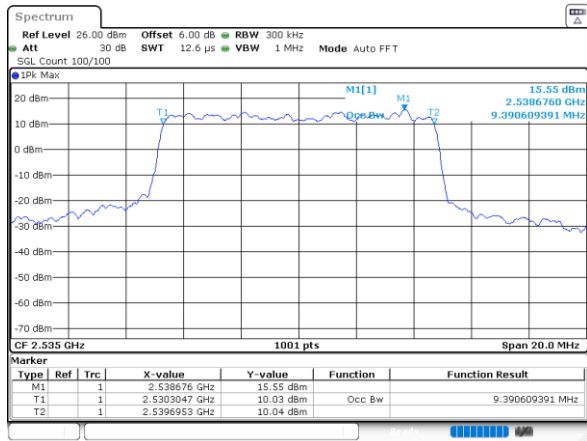
256QAM



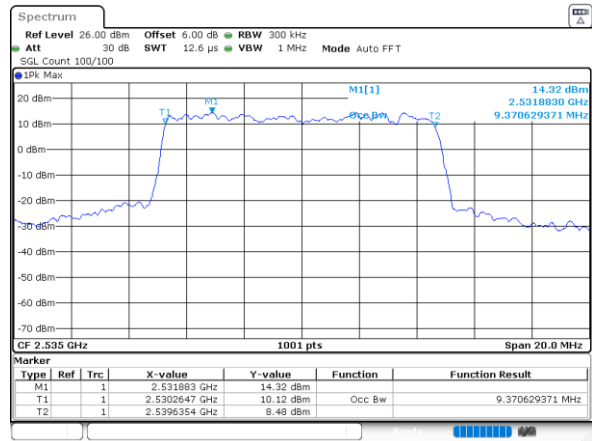


FR1 n7 / 10MHz / CP OFDM / Middle Channel / Full RB

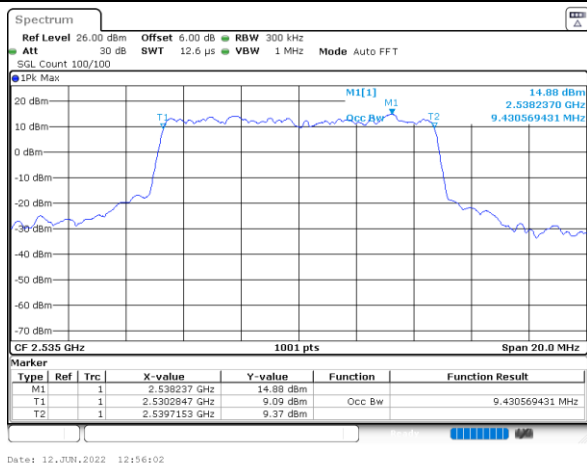
QPSK



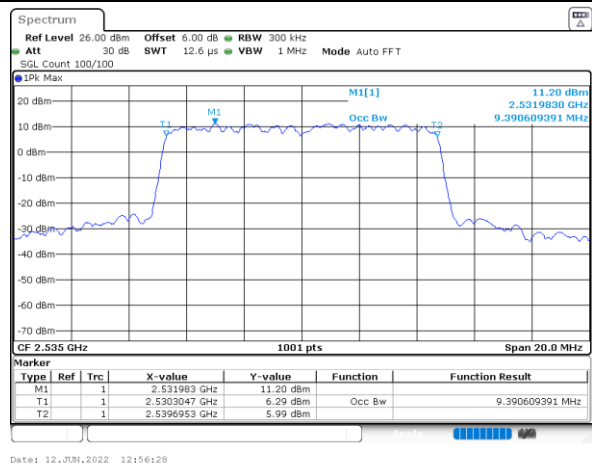
16QAM



64QAM



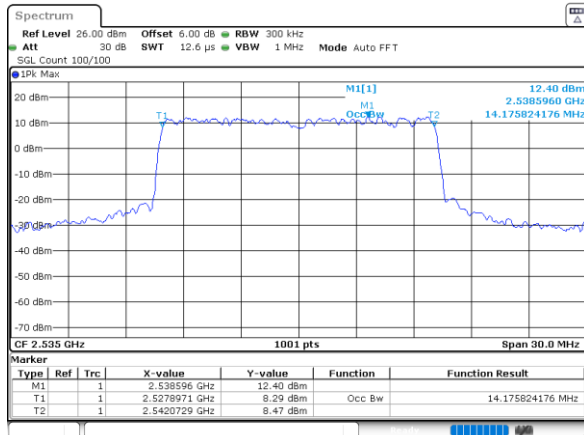
256QAM





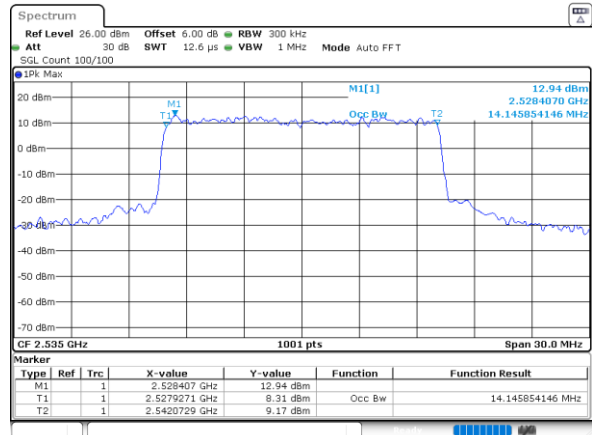
FR1 n7 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



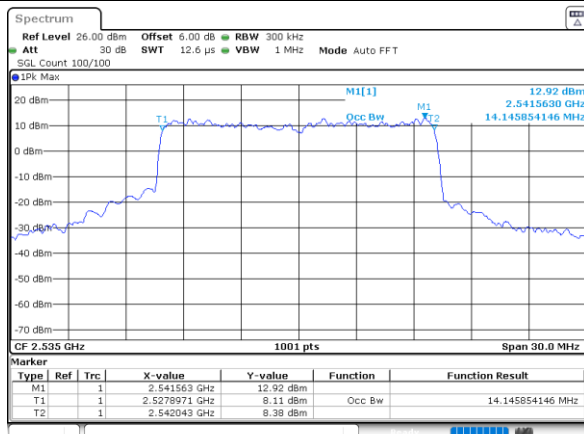
Date: 12.JUN.2022 12:58:36

16QAM



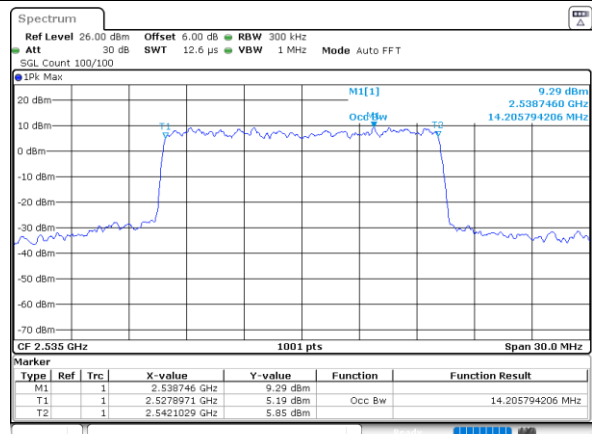
Date: 12.JUN.2022 12:58:17

64QAM



Date: 12.JUN.2022 12:57:23

256QAM

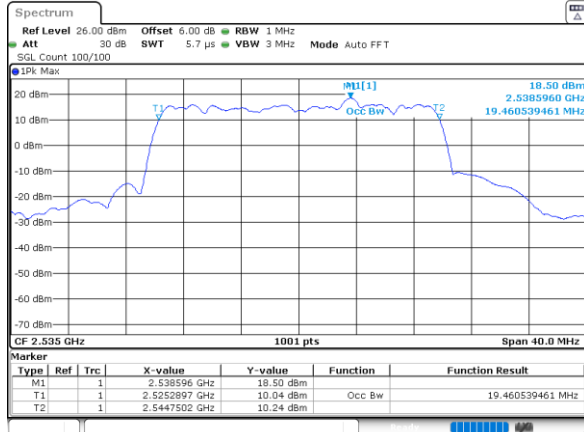


Date: 12.JUN.2022 12:57:12



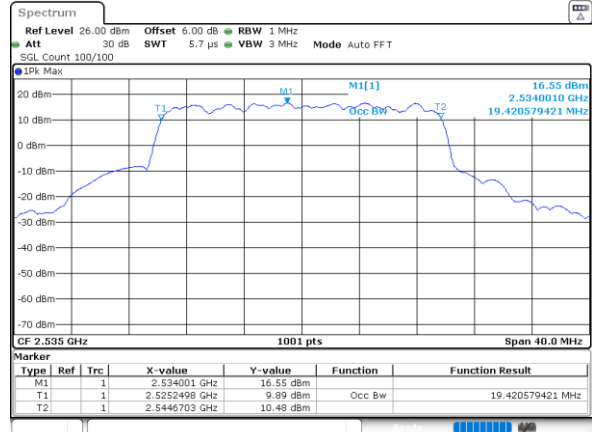
FR1 n7 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



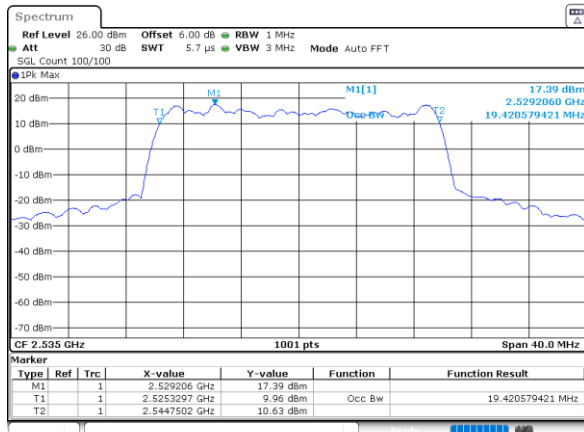
Date: 12.JUN.2022 12:59:45

16QAM



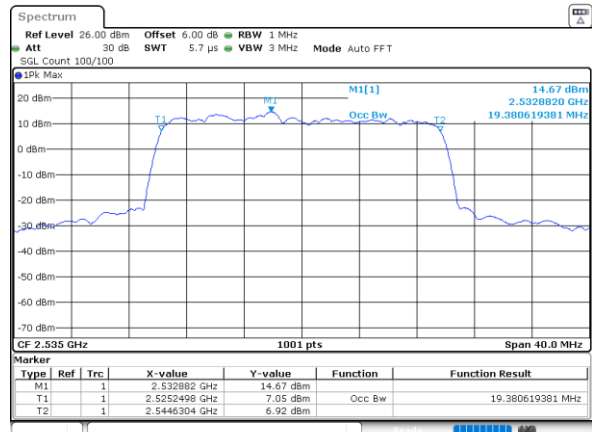
Date: 12.JUN.2022 12:59:57

64QAM



Date: 12.JUN.2022 13:00:22

256QAM



Date: 12.JUN.2022 13:00:44

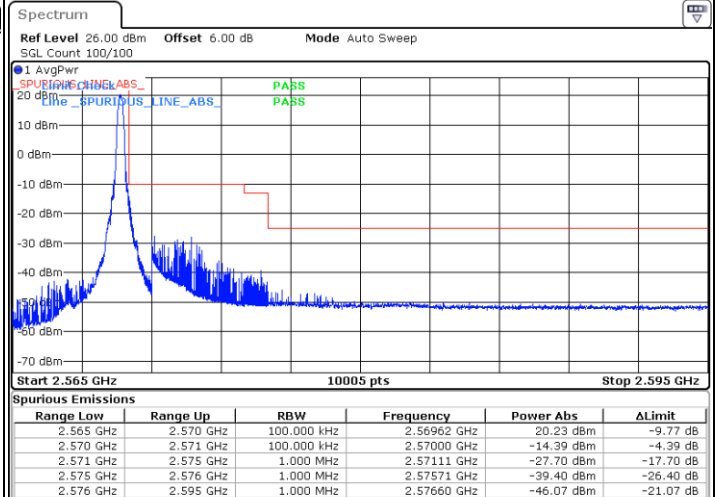
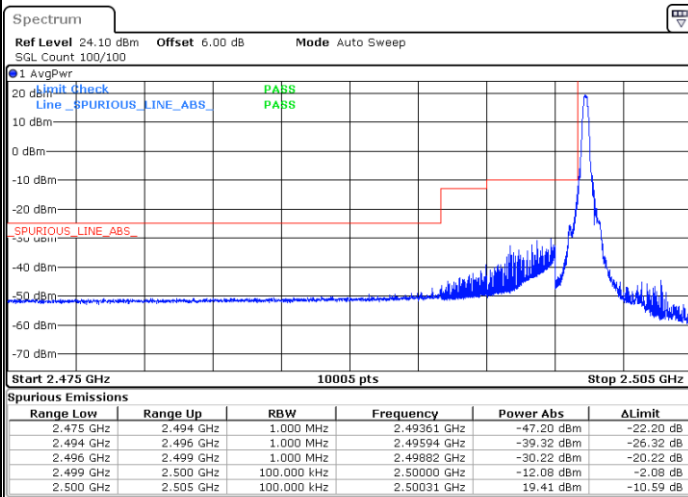


Conducted Band Edge

FR1 n7 / 5MHz / DFT-S OFDM / PI/2 BPSK

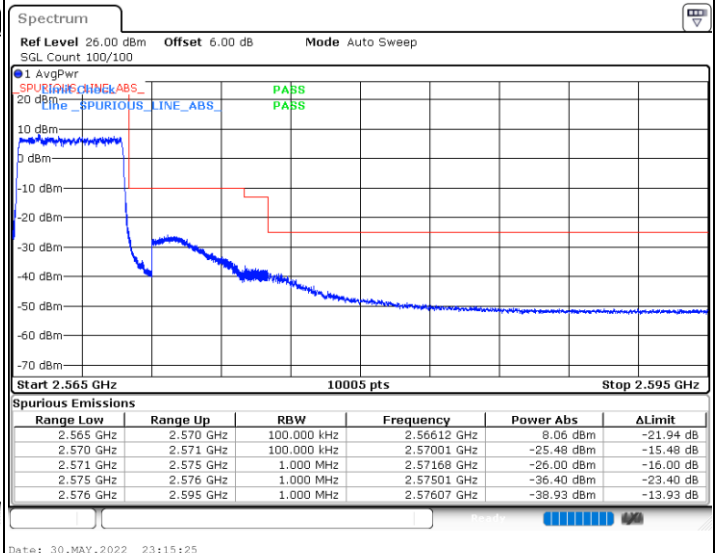
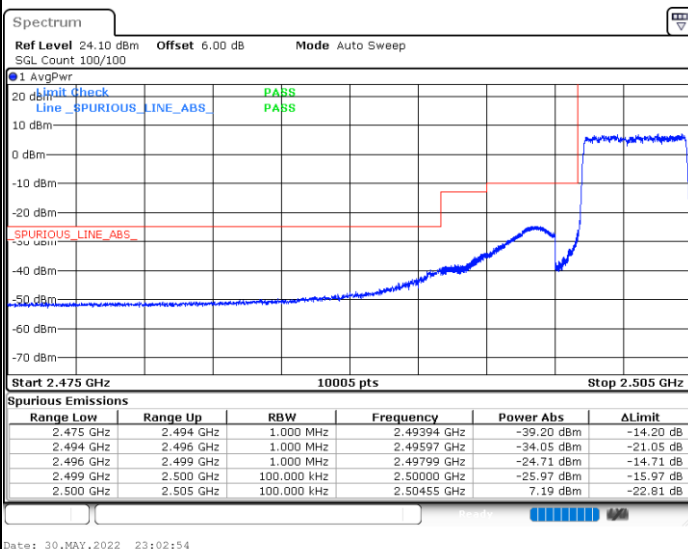
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

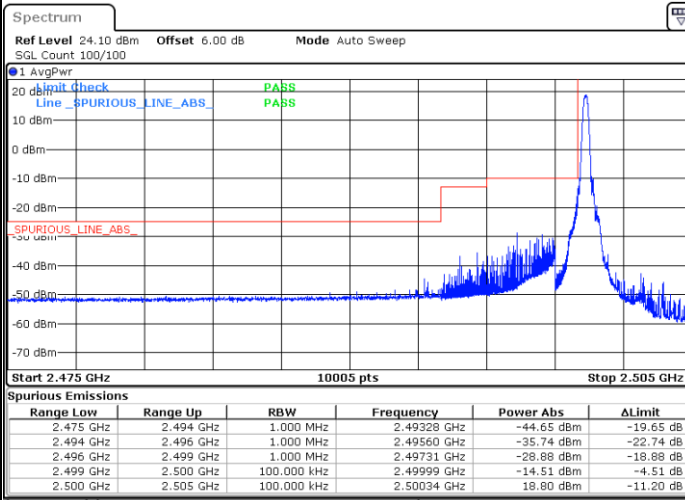




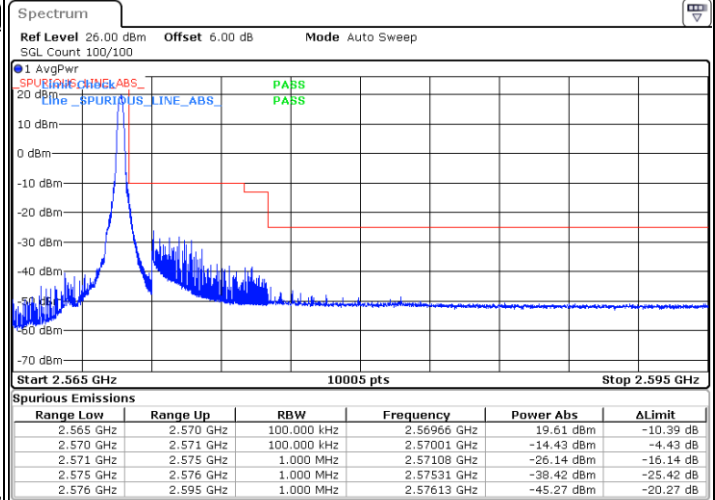
FR1 n7 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



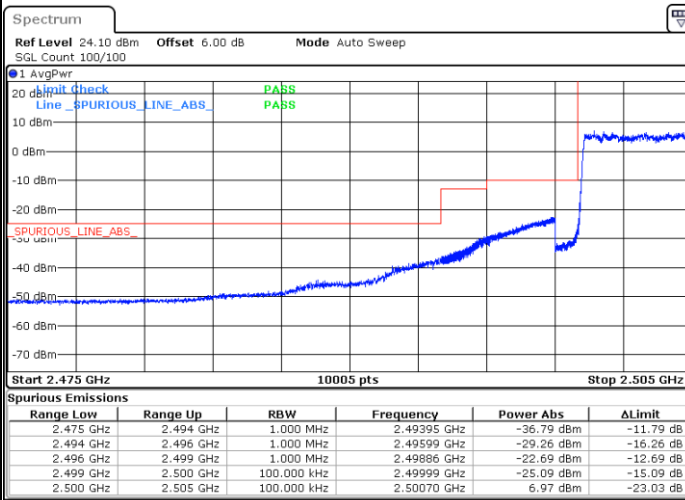
Date: 30.MAY.2022 23:04:29



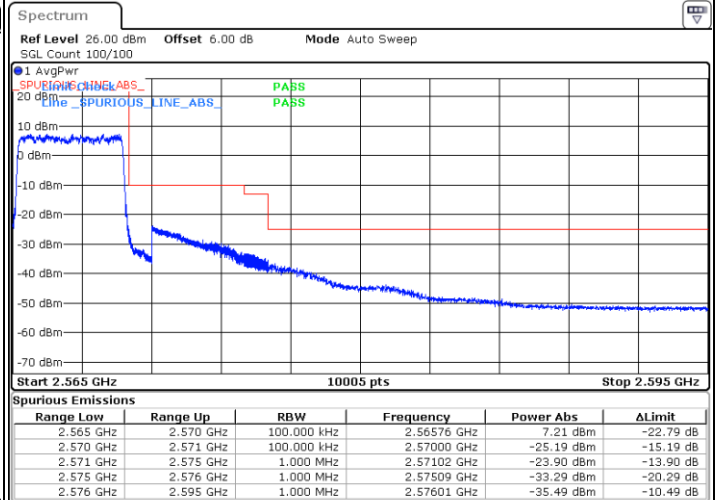
Date: 30.MAY.2022 23:16:43

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 30.MAY.2022 23:03:55



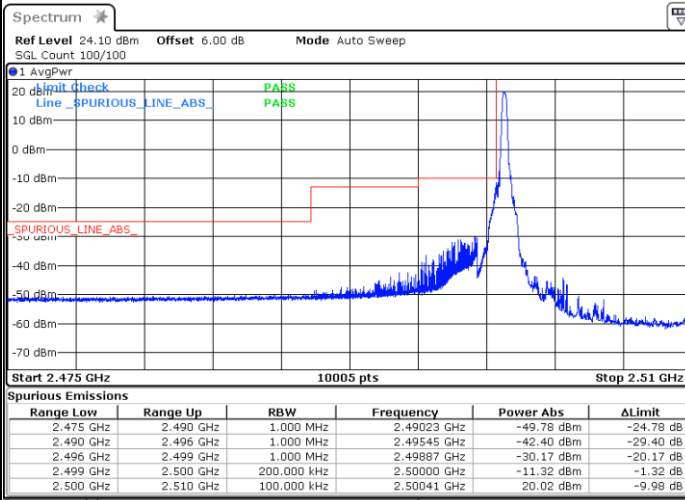
Date: 30.MAY.2022 23:16:19



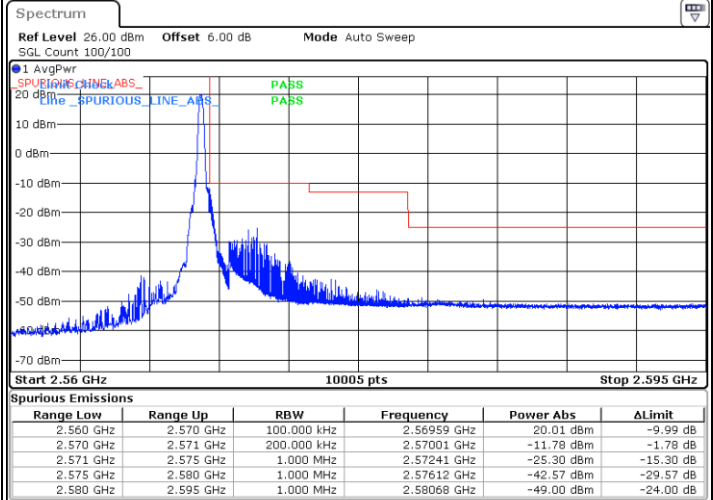
FR1 n7 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



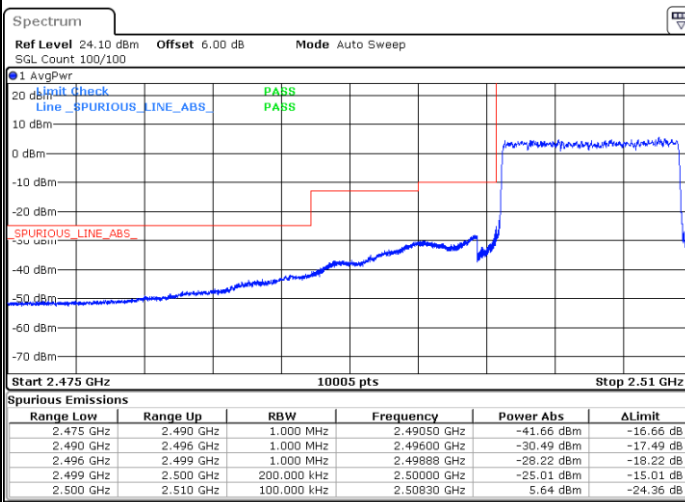
Date: 31.MAY.2022 00:36:59



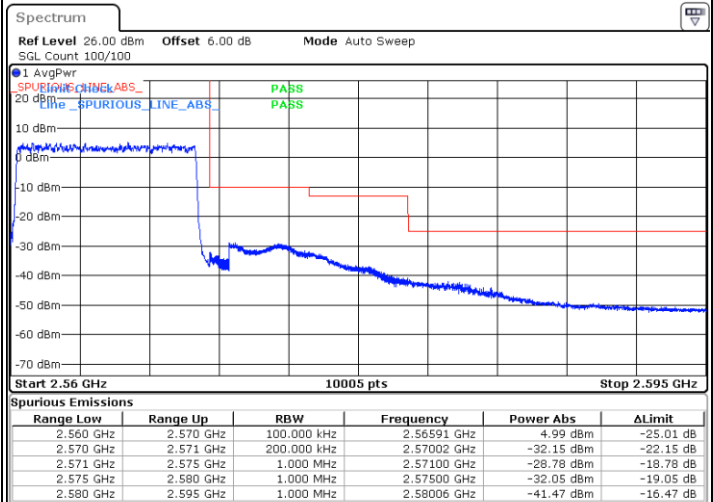
Date: 31.MAY.2022 00:46:42

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 31.MAY.2022 00:35:31



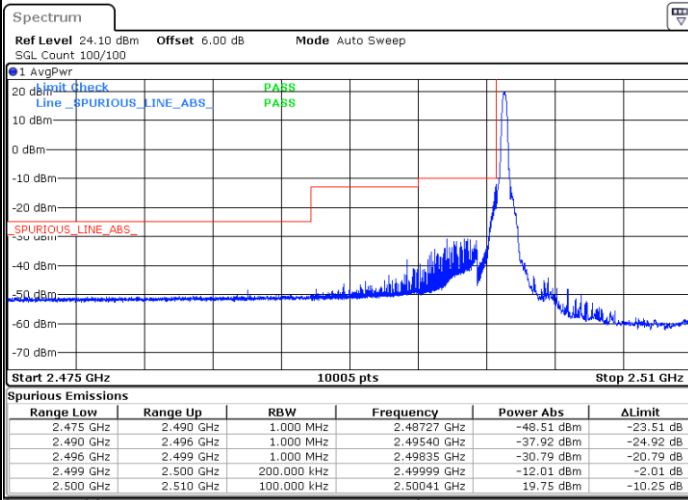
Date: 31.MAY.2022 00:44:02



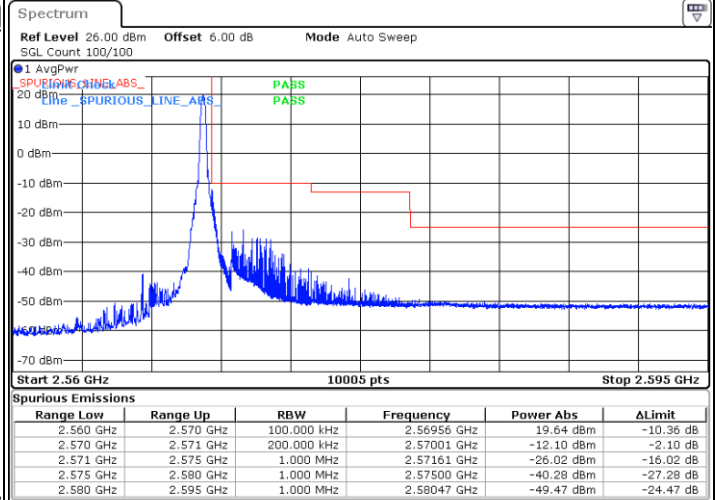
FR1 n7 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



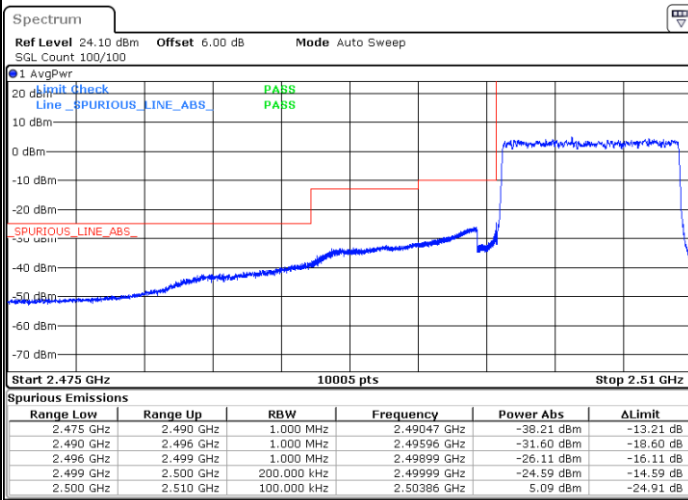
Date: 31.MAY.2022 00:36:10



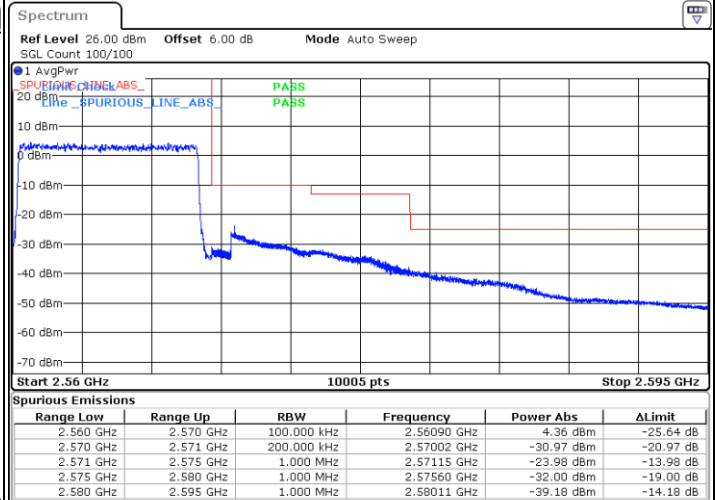
Date: 31.MAY.2022 00:46:11

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 31.MAY.2022 00:35:50



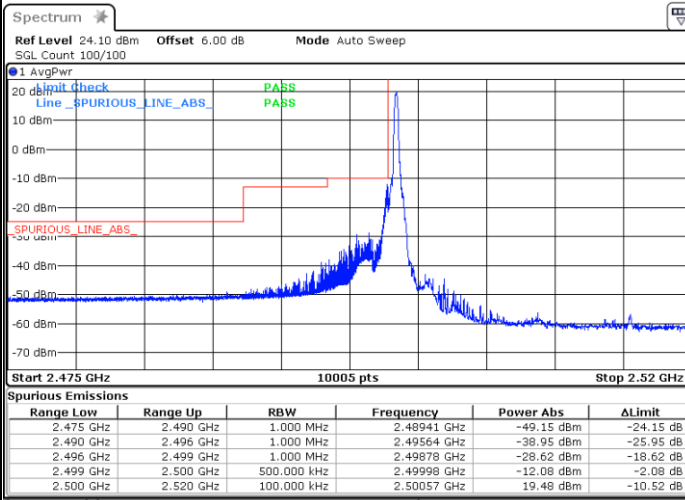
Date: 31.MAY.2022 00:45:25



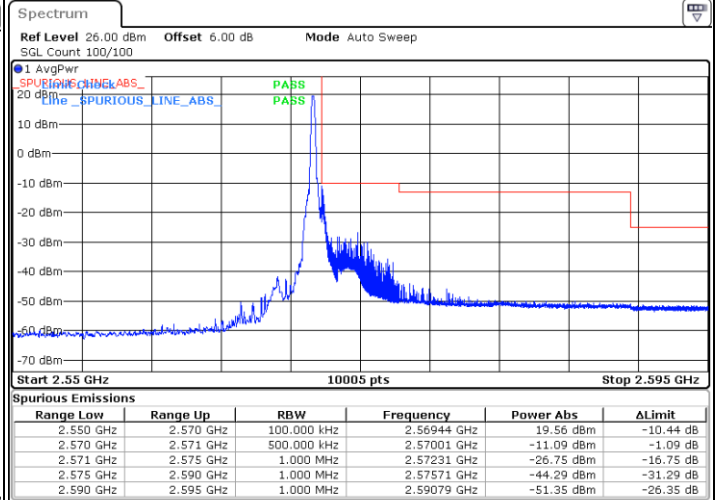
FR1 n7 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



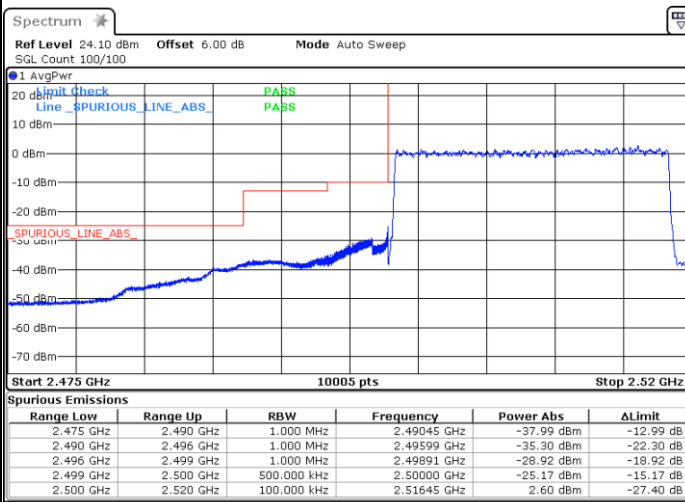
Date: 31.MAY.2022 02:53:13



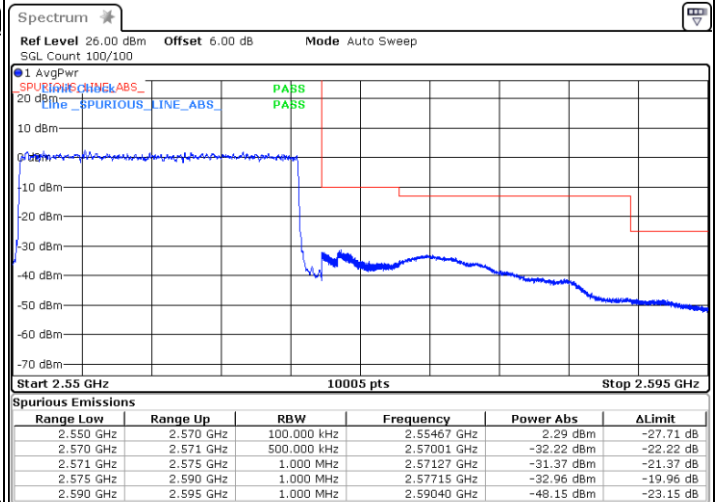
Date: 31.MAY.2022 03:37:48

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 31.MAY.2022 02:34:28



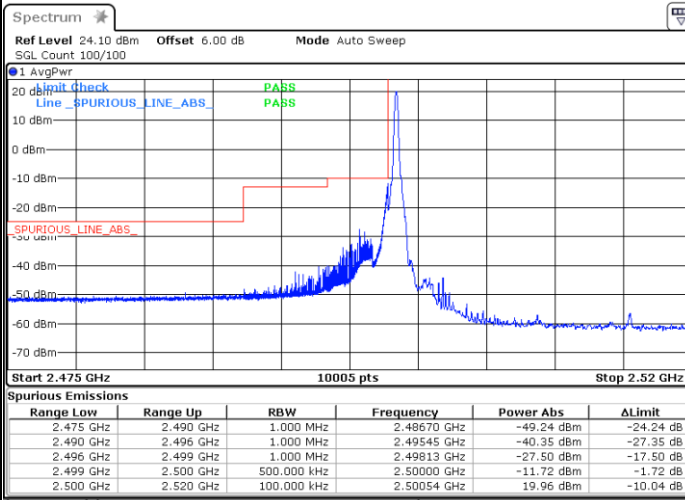
Date: 31.MAY.2022 03:35:20



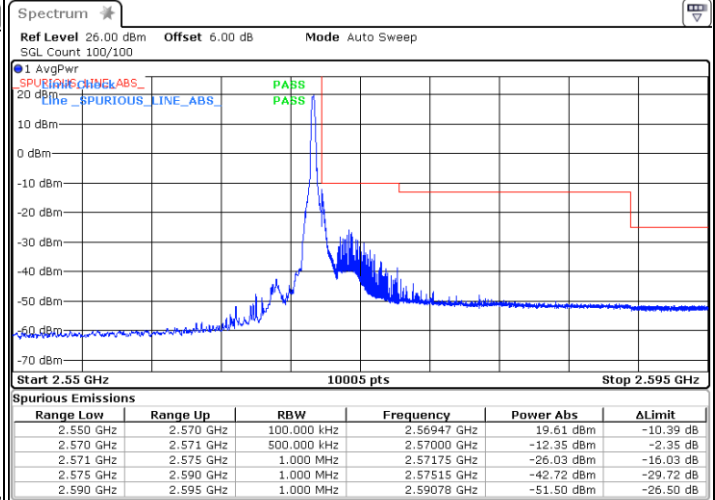
FR1 n7 / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



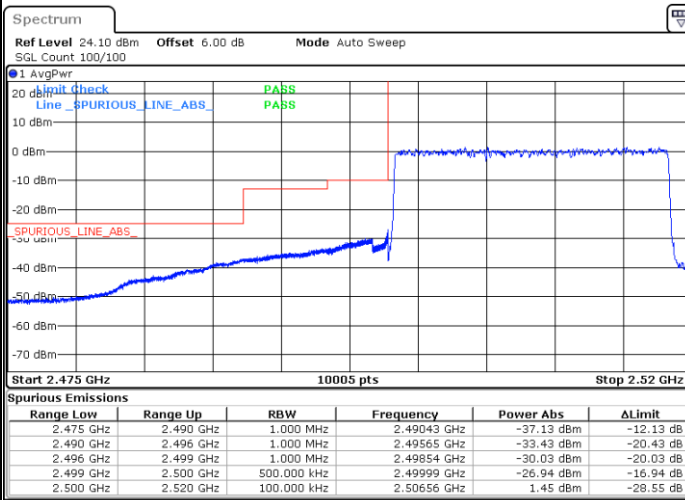
Date: 31.MAY.2022 02:39:04



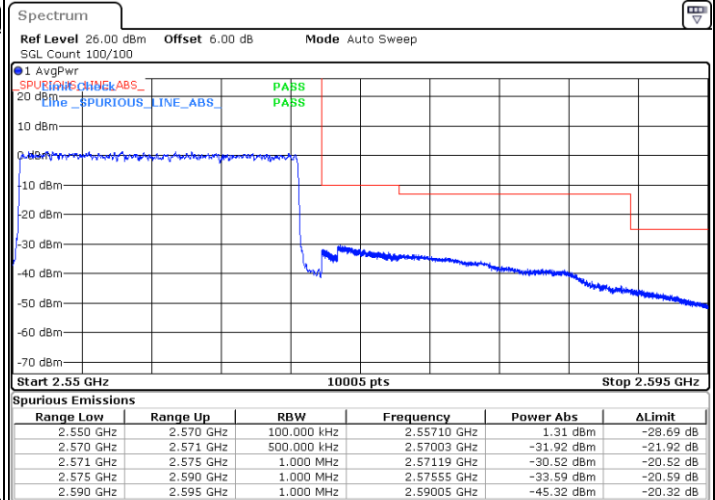
Date: 31.MAY.2022 03:37:31

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 31.MAY.2022 02:35:41



Date: 31.MAY.2022 03:36:35

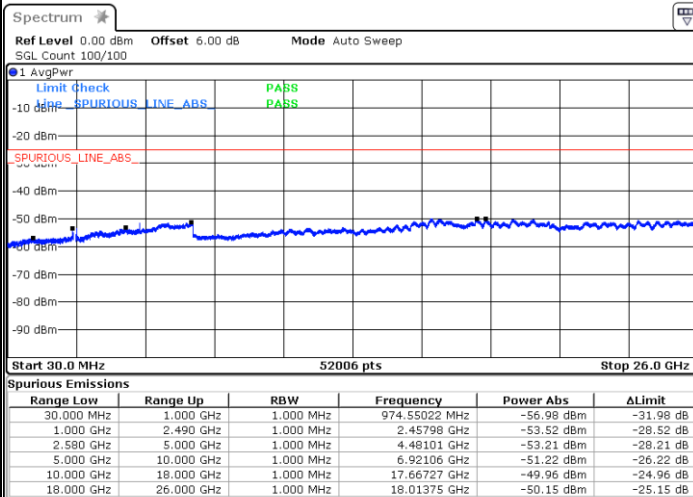


Conducted Spurious Emission

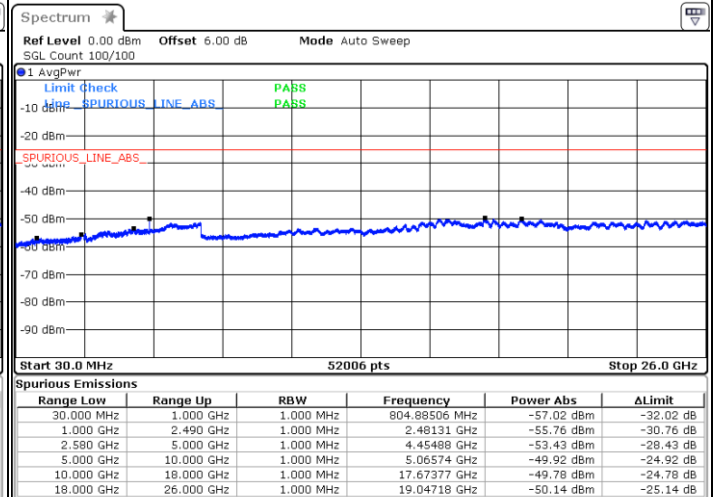
FR1 n7 / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

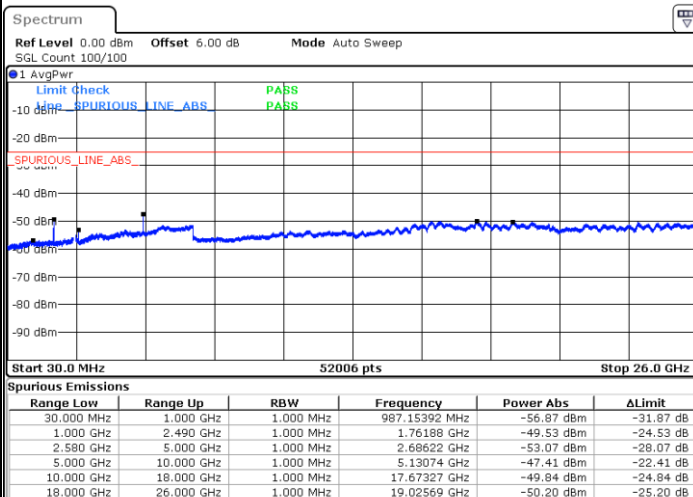


Date: 30.MAY.2022 23:07:22



Date: 30.MAY.2022 23:11:06

Highest Channel / 1RB1

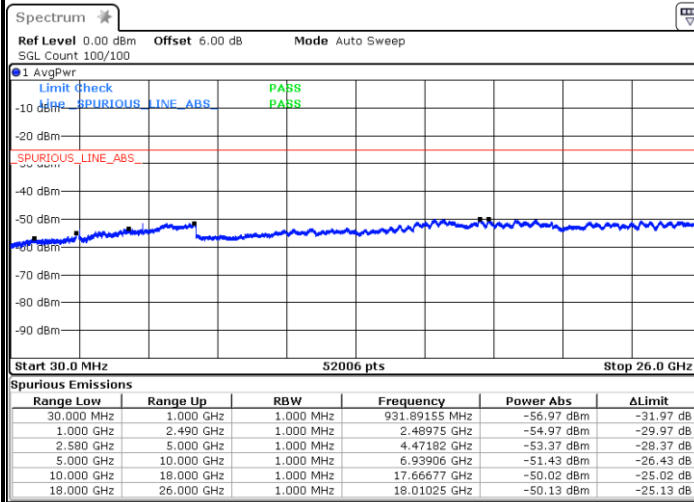


Date: 30.MAY.2022 23:17:58



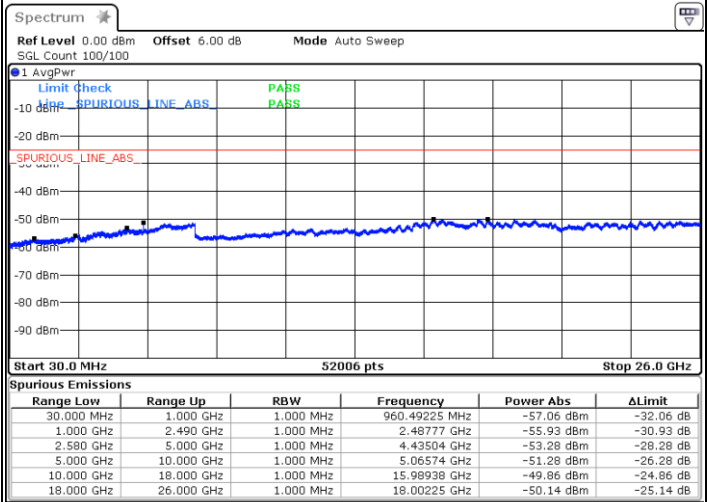
FR1 n7 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



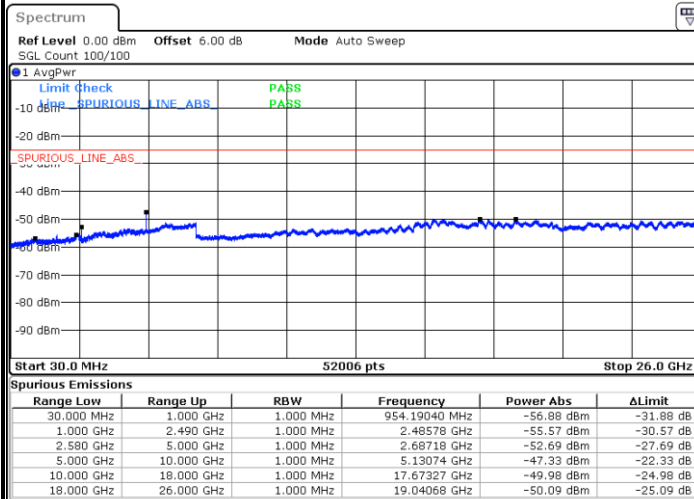
Date: 30.MAY.2022 23:08:33

Middle Channel / 1RB1



Date: 30.MAY.2022 23:10:00

Highest Channel / 1RB1

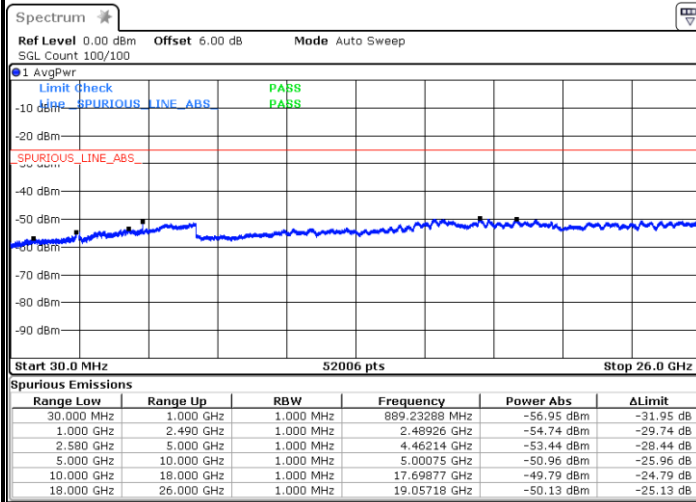


Date: 30.MAY.2022 23:18:54



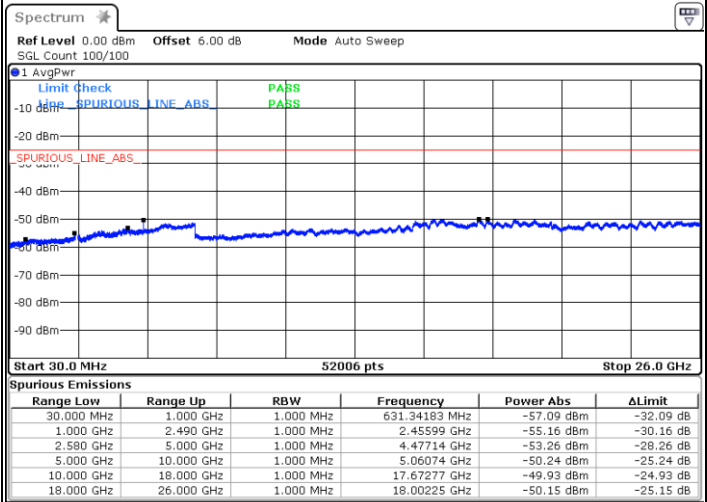
FR1 n7 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1



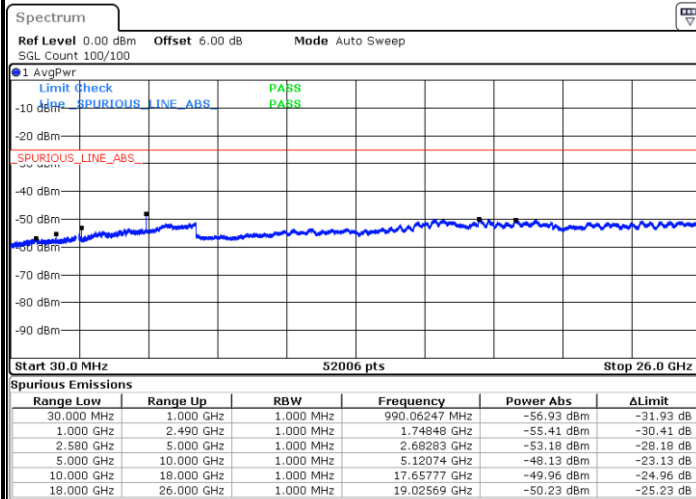
Date: 31.MAY.2022 00:38:17

Middle Channel / 1RB1



Date: 31.MAY.2022 00:41:50

Highest Channel / 1RB1

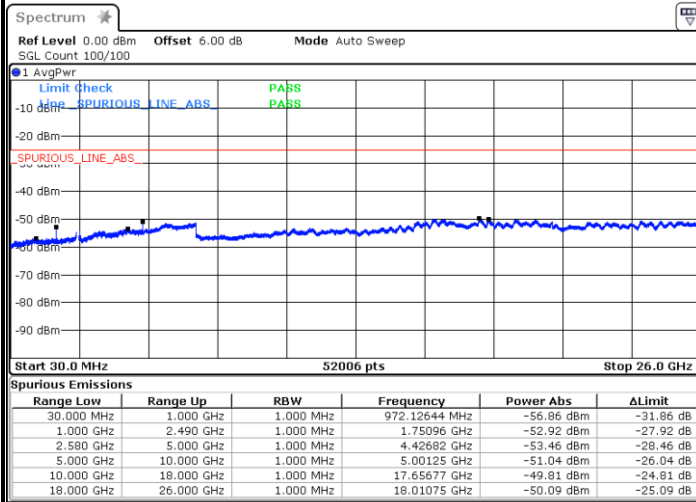


Date: 31.MAY.2022 00:47:49



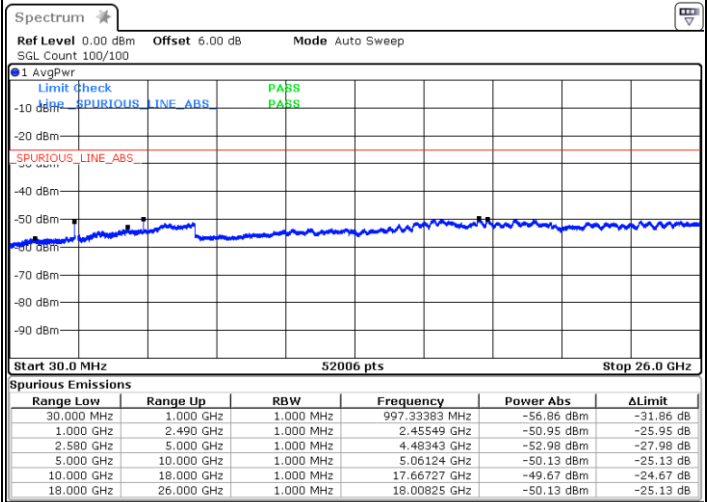
FR1 n7 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



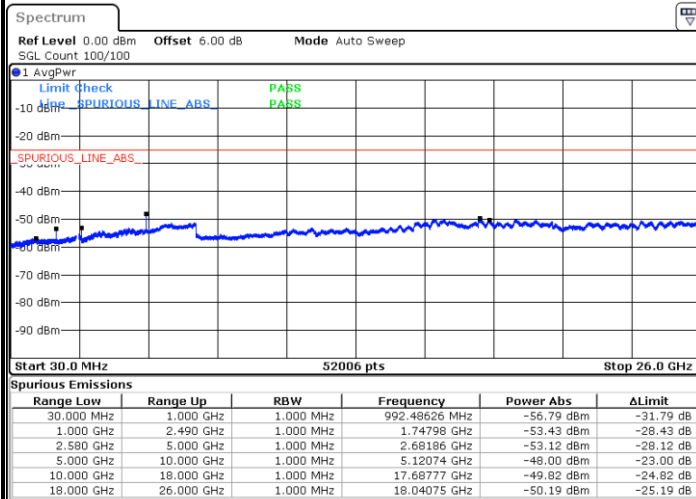
Date: 31.MAY.2022 00:39:22

Middle Channel / 1RB1



Date: 31.MAY.2022 00:40:42

Highest Channel / 1RB1

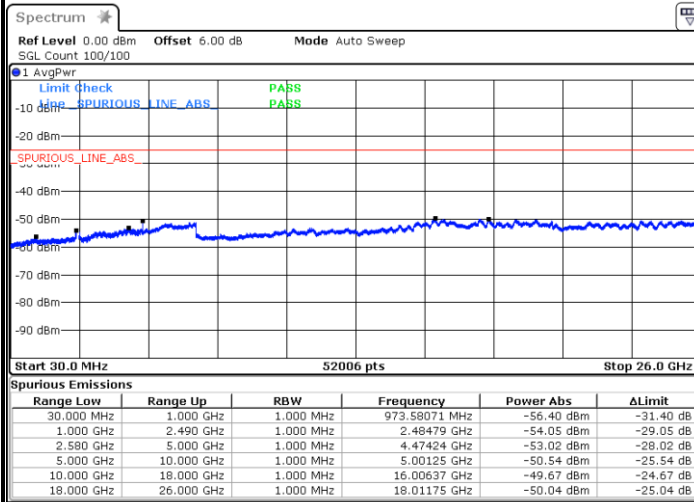


Date: 31.MAY.2022 00:49:14



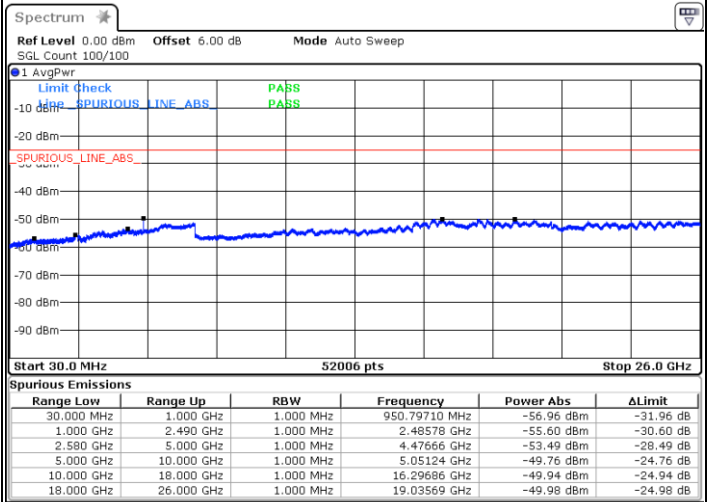
FR1 n7 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1



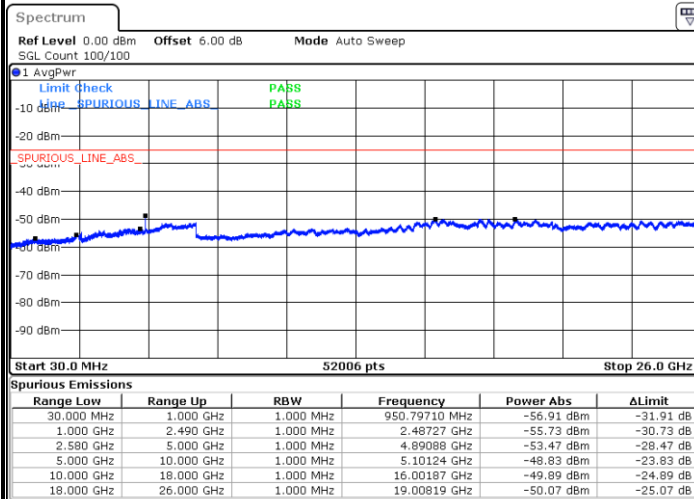
Date: 31.MAY.2022 02:54:26

Middle Channel / 1RB1



Date: 31.MAY.2022 03:04:09

Highest Channel / 1RB1

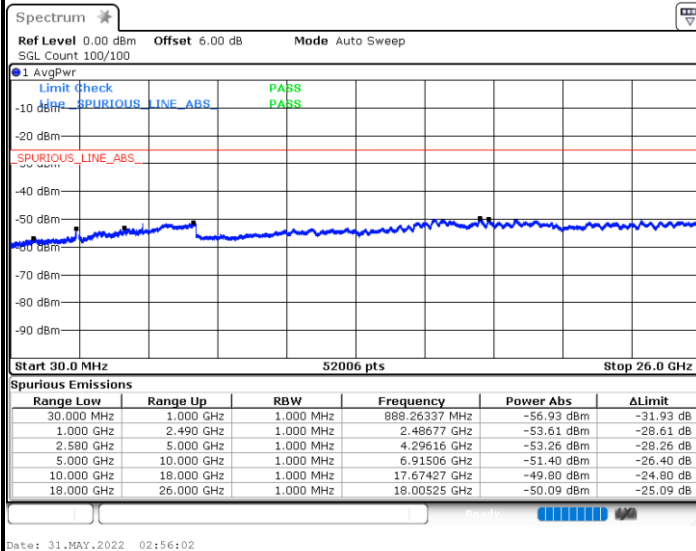


Date: 31.MAY.2022 03:39:04

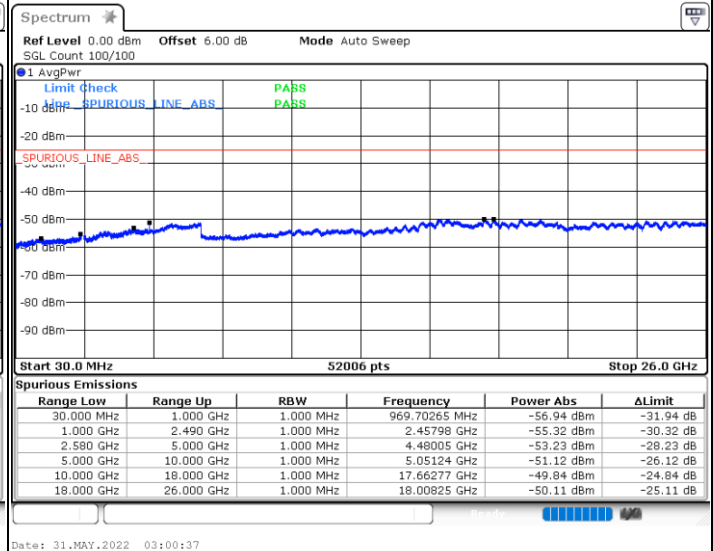


FR1 n7 / 20MHz / DFT-S OFDM / QPSK

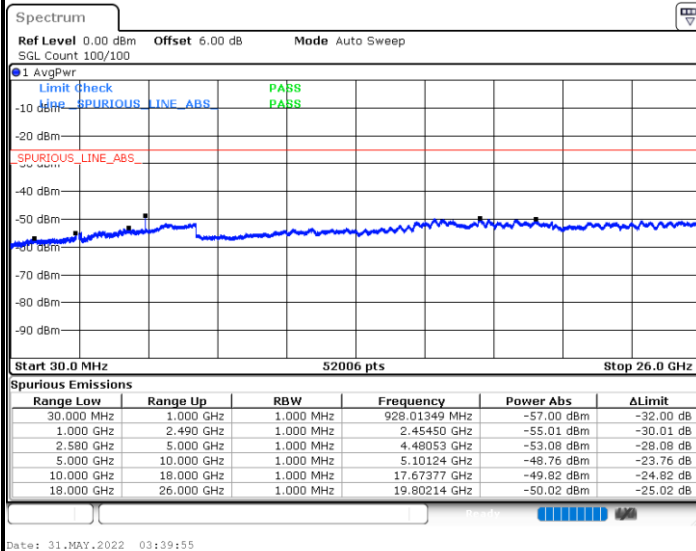
Lowest Channel / 1RB1



Middle Channel / 1RB1



Highest Channel / 1RB1



Frequency Stability

Test Conditions		FR1 n5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0012	PASS
40	Normal Voltage	0.0034	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0021	
-20	Normal Voltage	0.0034	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0015	
20	Normal Voltage	0.0022	
20	Battery End Point	0.0011	

Note:

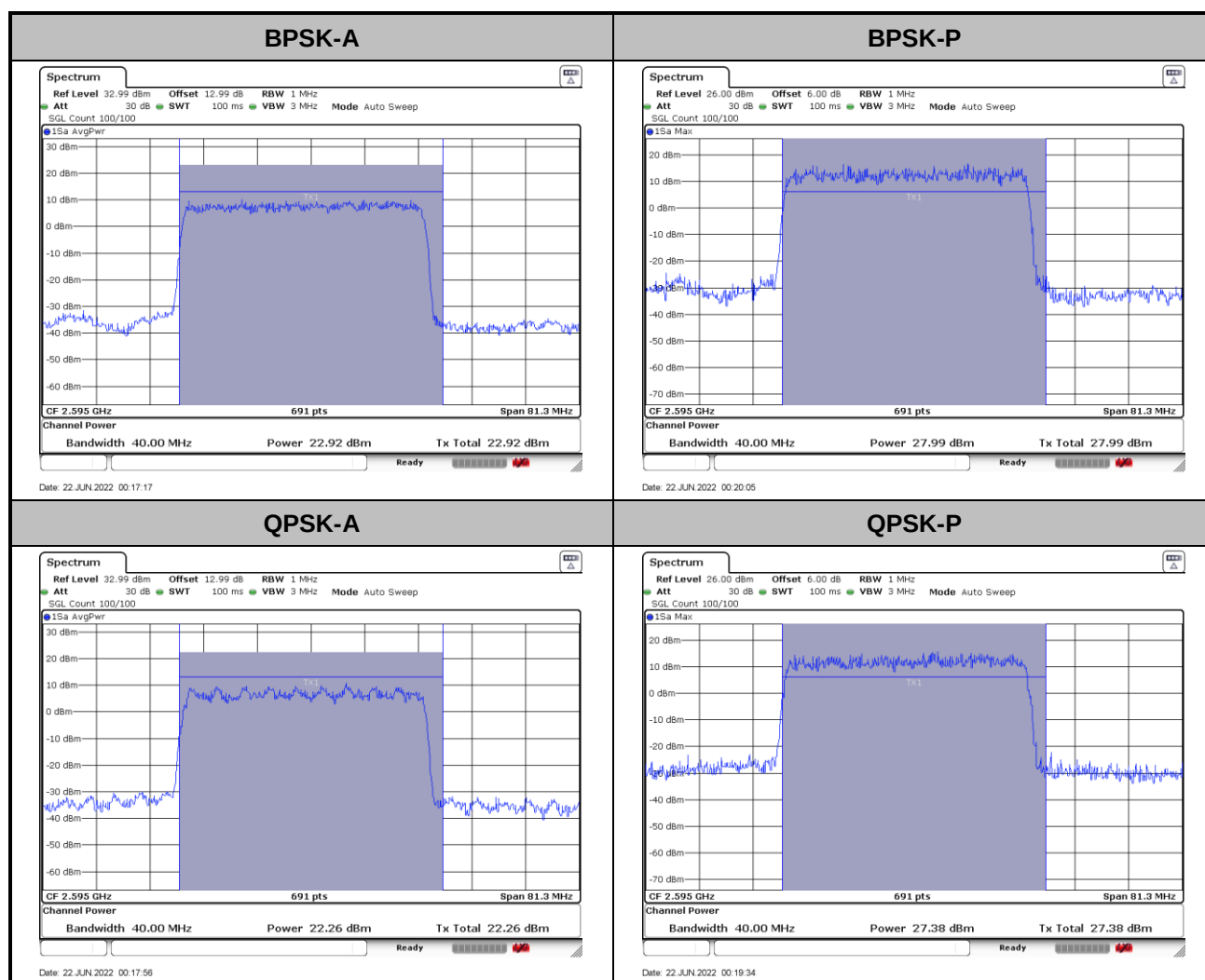
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.55 V. ; Maximum Voltage =4.45 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



FR1 71A-n38

Peak-to-Average Ratio

Mode	FR1 n38 /40MHz / DFT-S OFDM		
Mod.	40M		Limit: 13dB
RB Size	BPSK	QPSK	Result
Middle CH	5.07	5.12	PASS



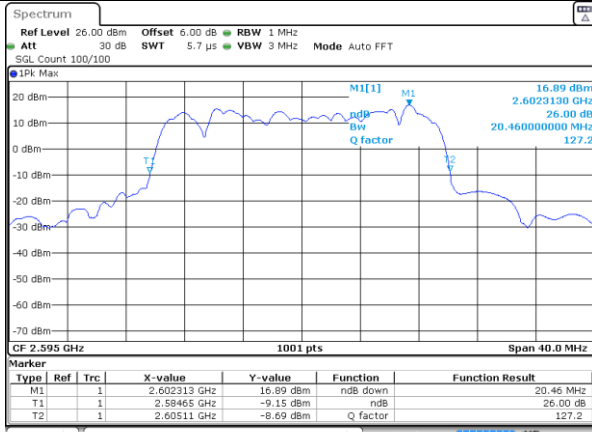
**26dB Bandwidth**

Mode	FR1 n38 : 26dB BW(MHz) / CP			
BW	20M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	20.46	20.46	20.5	20.5
BW	30M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	28.89	28.93	29.29	28.85
BW	40M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	40.28	40.36	40.28	40.12

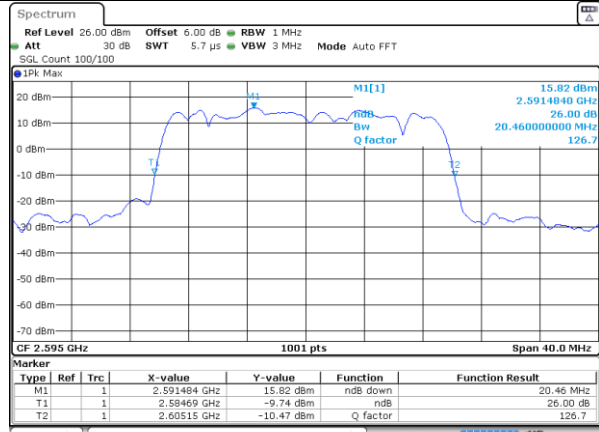


20M

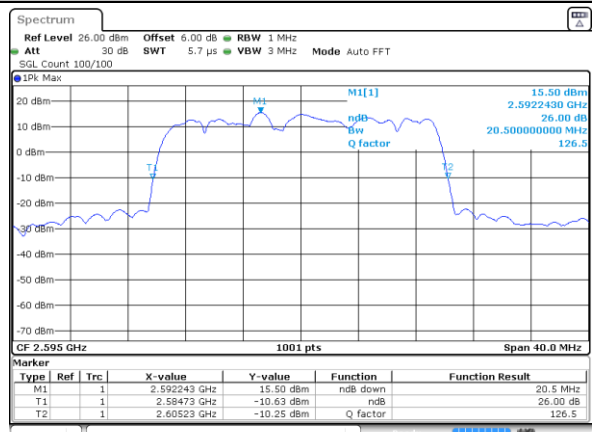
QPSK



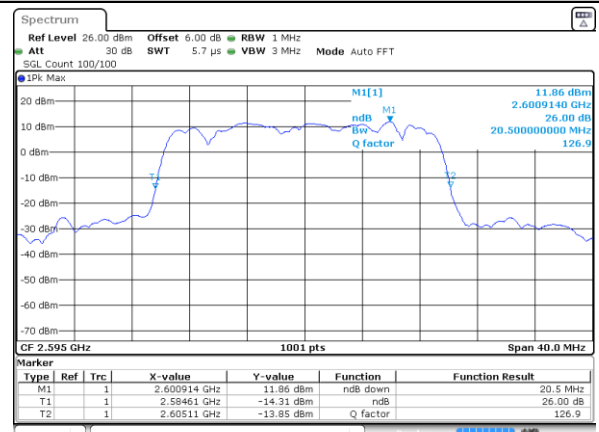
16QAM



64QAM

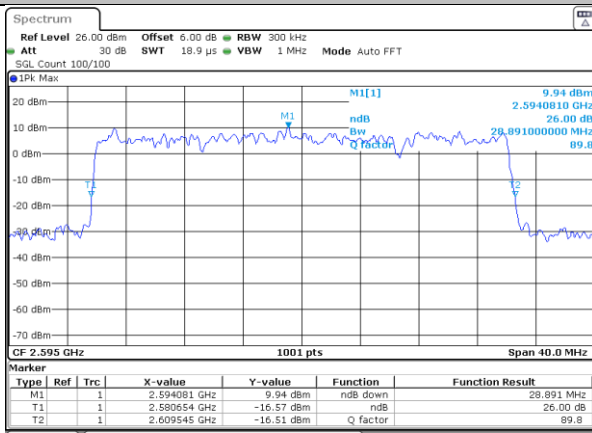


256QAM

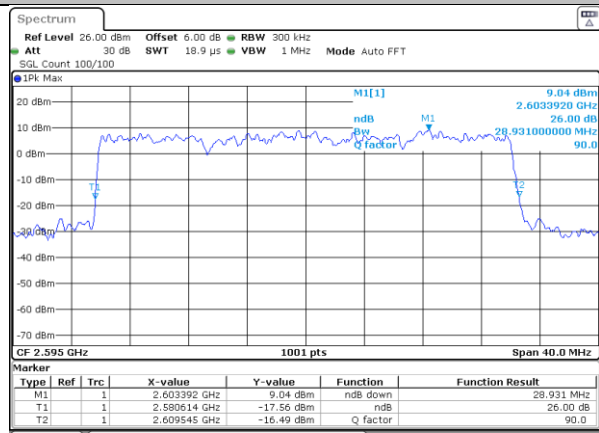


30M

QPSK

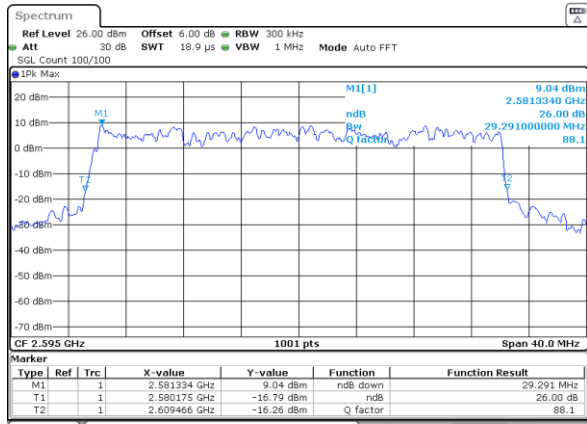


16QAM



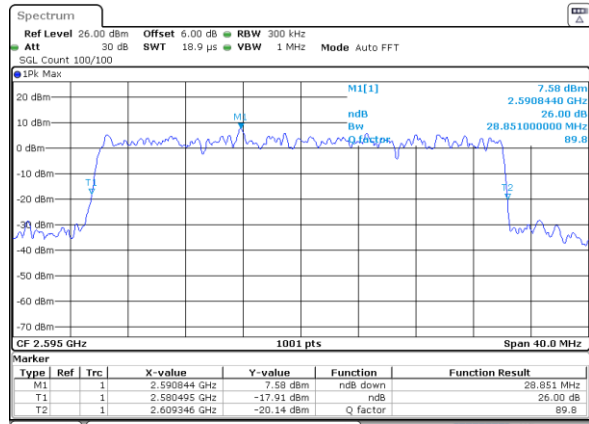


64QAM



Date: 21 JUN 2022 23:10:29

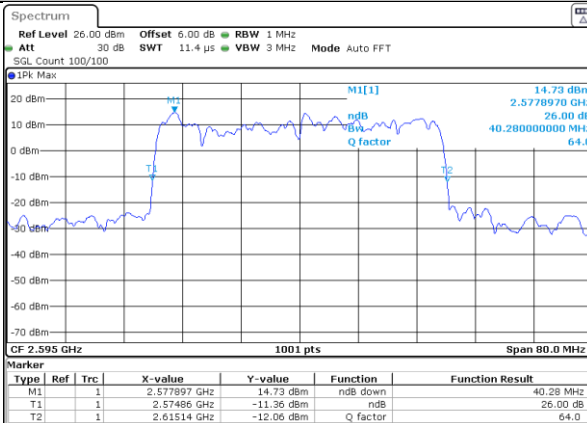
256QAM



Date: 21 JUN 2022 23:10:59

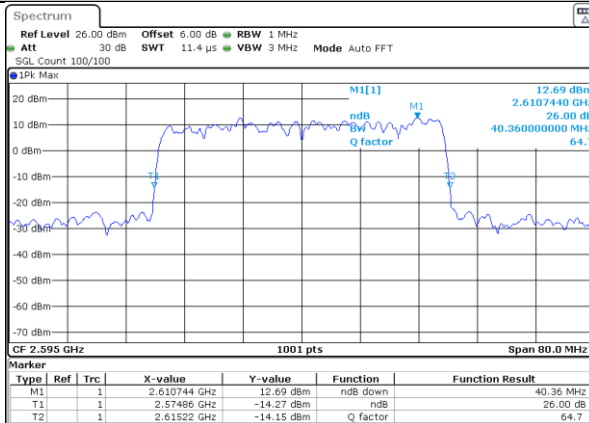
40M

QPSK



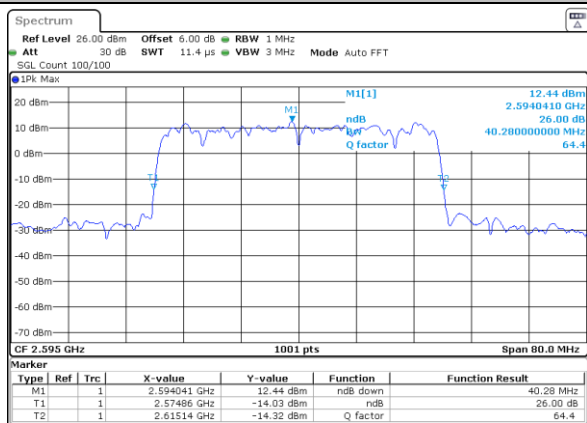
Date: 21 JUN 2022 23:56:33

16QAM



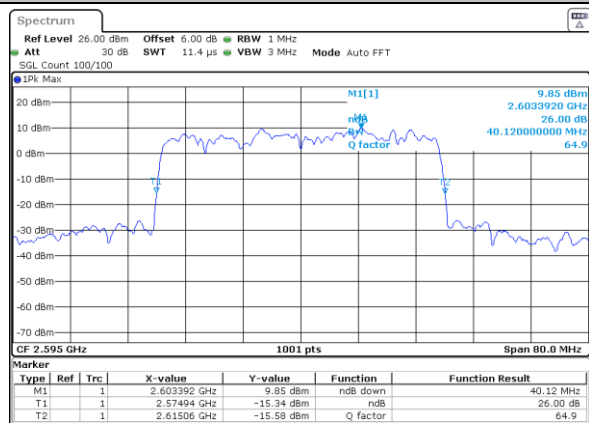
Date: 21 JUN 2022 23:57:40

64QAM



Date: 21 JUN 2022 23:58:24

256QAM



Date: 22 JUN 2022 00:00:42

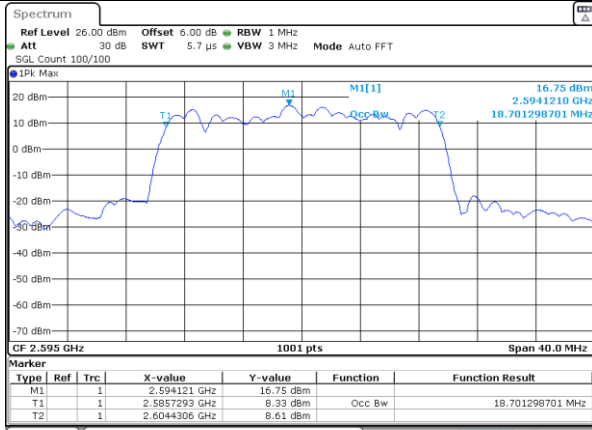
**Occupied Bandwidth**

Mode	FR1 n38: OB BW(MHz) / CP			
BW	20M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	18.70	18.62	18.78	18.62
BW	30M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	27.77	27.69	27.81	27.77
BW	40M			
Mod.	QPSK	16QAM	64QAM	256QAM
Middle CH	38.04	38.36	37.96	38.04

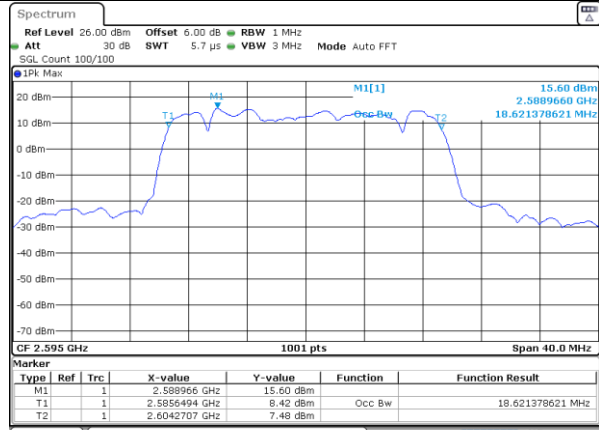


20M

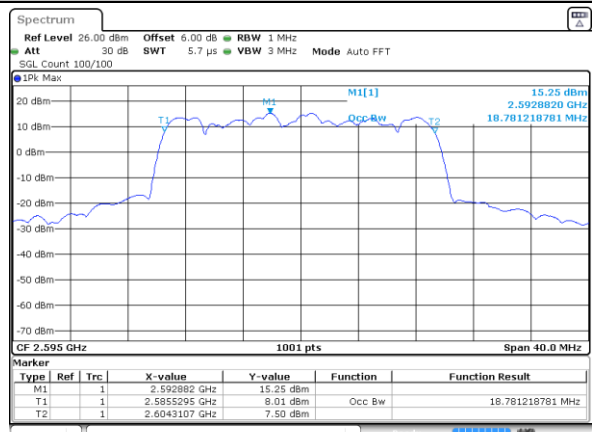
QPSK



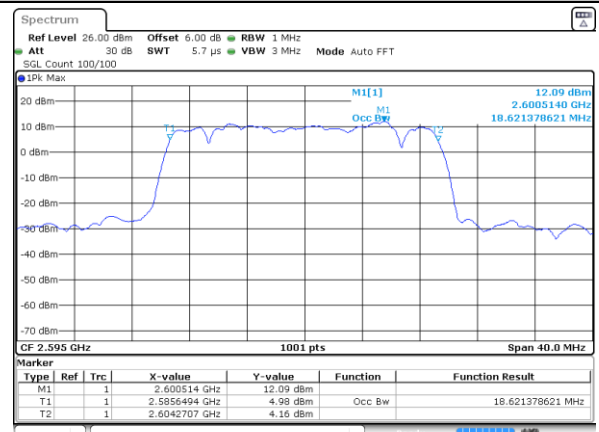
16QAM



64QAM

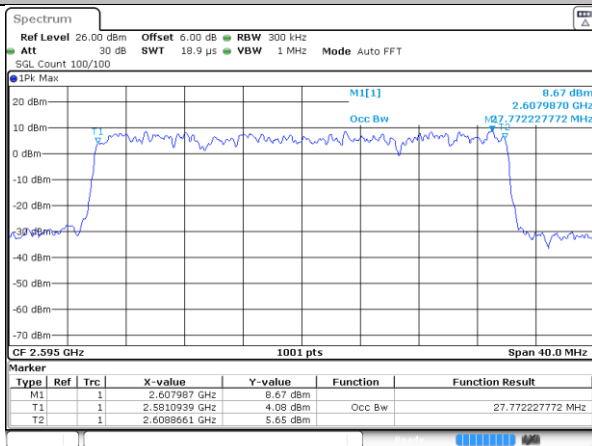


256QAM

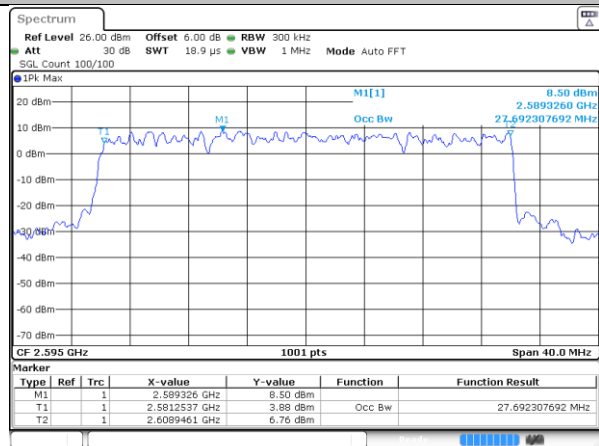


30M

QPSK

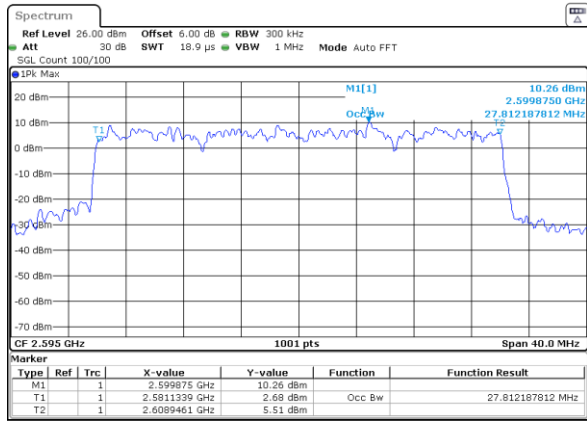


16QAM



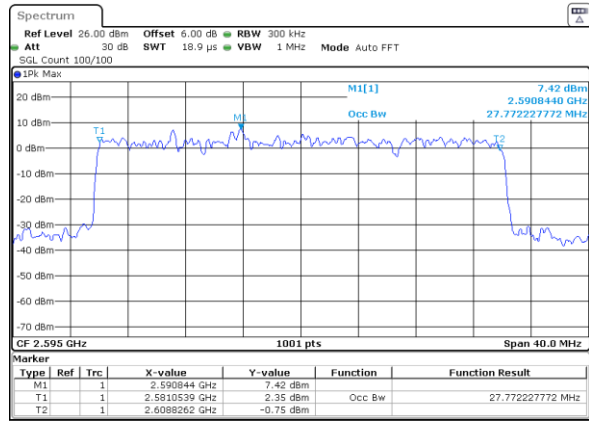


64QAM



Date: 21 JUN 2022 23:10:12

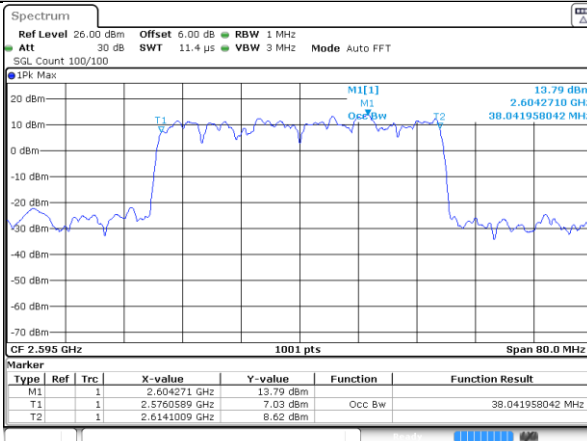
256QAM



Date: 21 JUN 2022 23:10:47

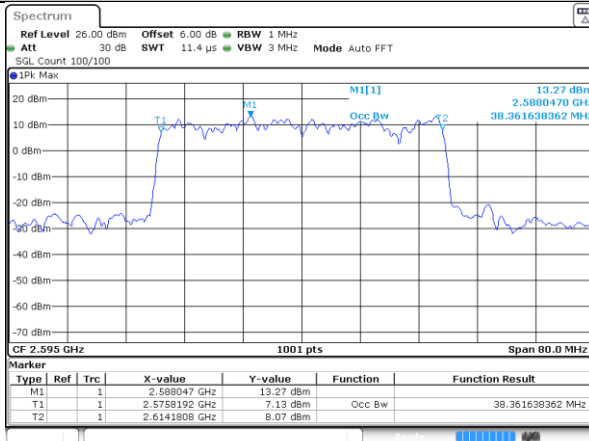
40M

QPSK



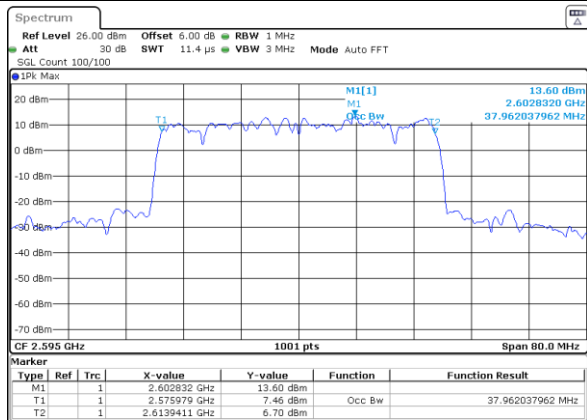
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16QAM



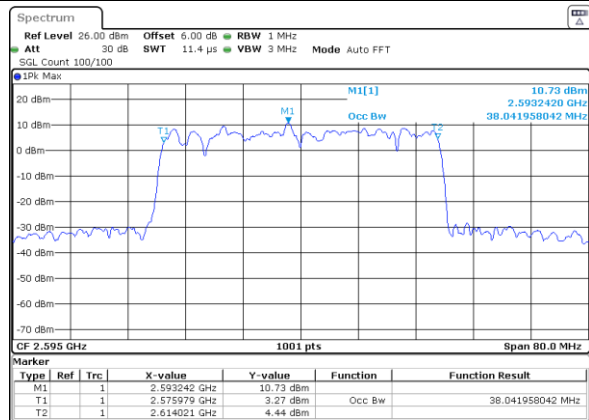
Date: 21 JUN 2022 23:57:07

4QAM



Date: 21 JUN 2022 23:57:58

256QAM



Date: 21 JUN 2022 23:58:02