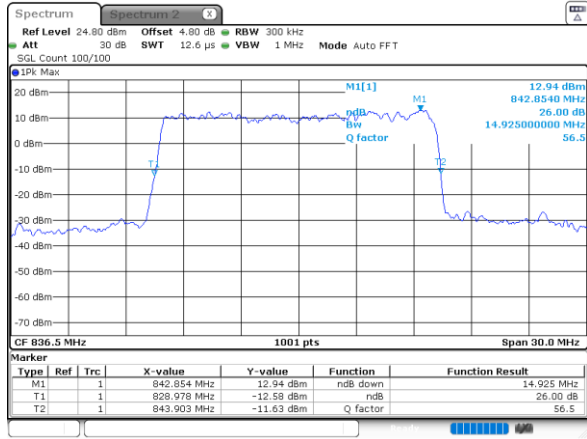


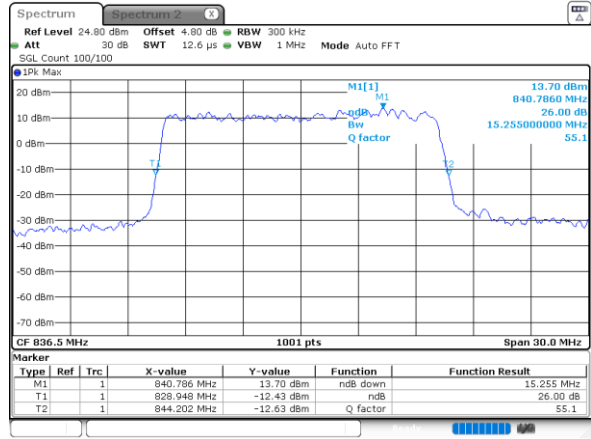


FR1 n5 / 15MHz / CP OFDM / Middle Channel / Full RB

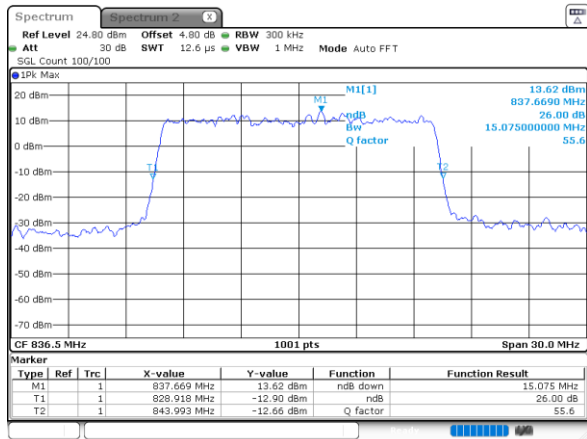
QPSK



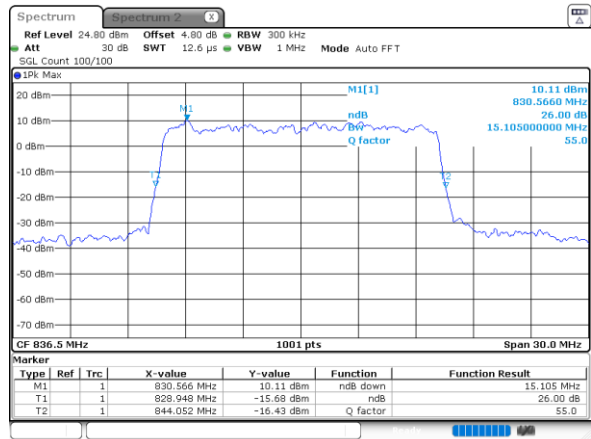
16QAM



64QAM



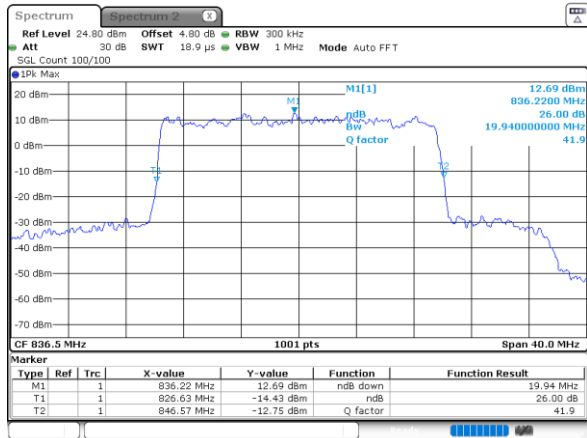
256QAM



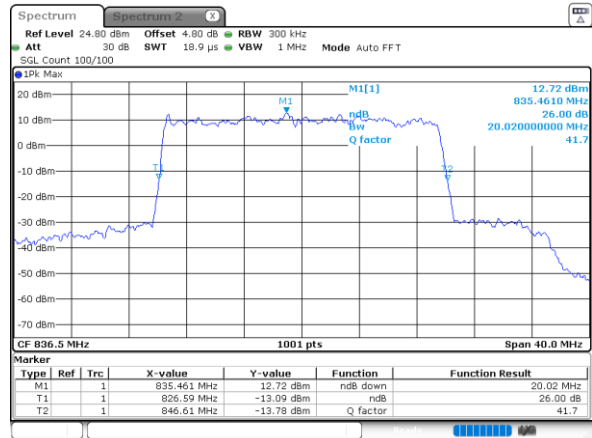


FR1 n5 / 20MHz / CP OFDM / Middle Channel / Full RB

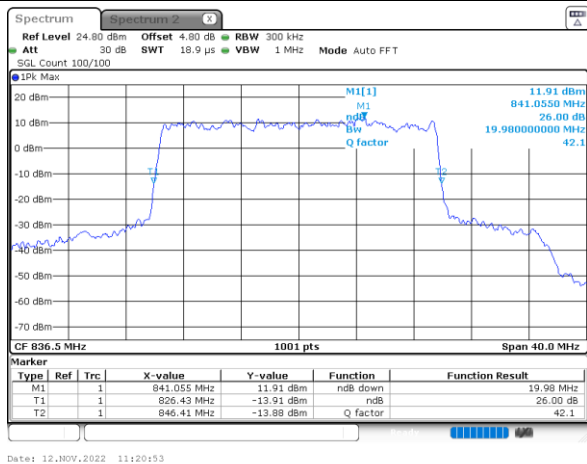
QPSK



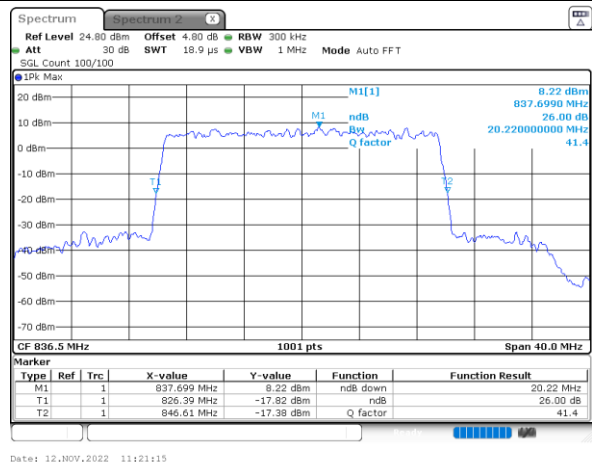
16QAM



64QAM



256QAM



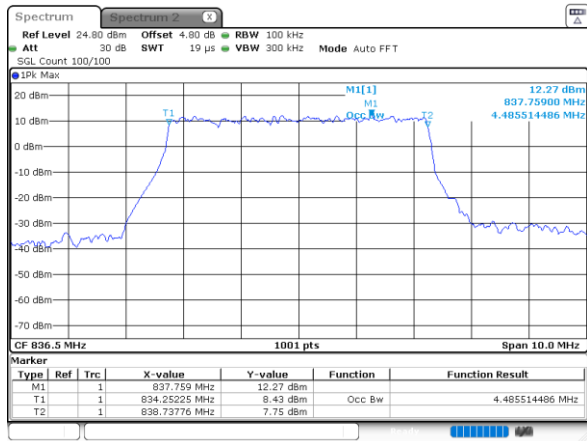
Occupied Bandwidth

Mode	FR1 n5 : 99%OBW (MHz) / CP OFDM			
BW	5MHz	10MHz	15MHz	20MHz
Mod.	QPSK	QPSK	QPSK	QPSK
Middle CH	4.49	9.35	14.12	18.94
BW	5MHz	10MHz	15MHz	20MHz
Mod.	16QAM	16QAM	16QAM	16QAM
Middle CH	4.51	9.35	14.18	18.98
BW	5MHz	10MHz	15MHz	20MHz
Mod.	64QAM	64QAM	64QAM	64QAM
Middle CH	4.49	9.35	14.18	18.90
BW	5MHz	10MHz	15MHz	20MHz
Mod.	256QAM	256QAM	256QAM	256QAM
Middle CH	4.49	9.37	14.15	18.86

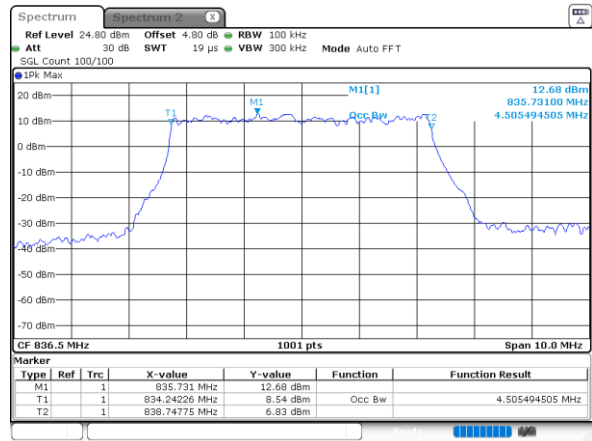


FR1 n5 / 5MHz / CP OFDM / Middle Channel / Full RB

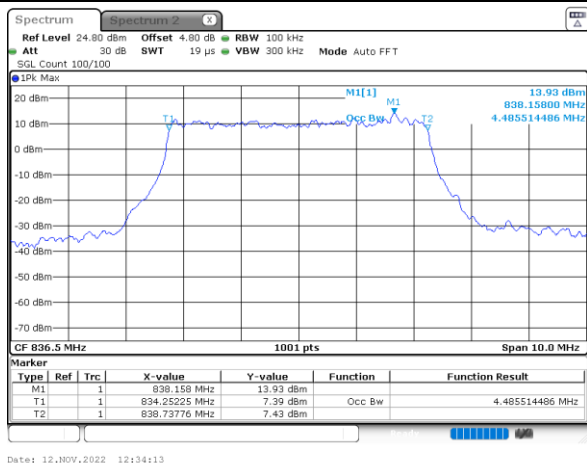
QPSK



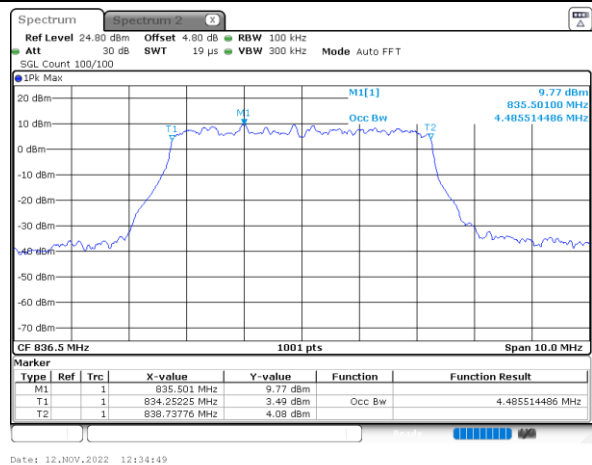
16QAM



64QAM



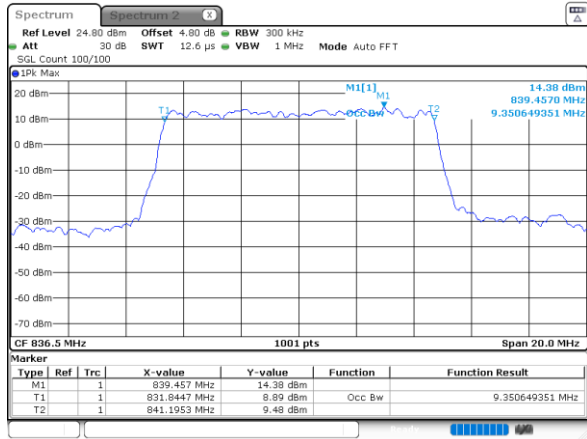
256QAM



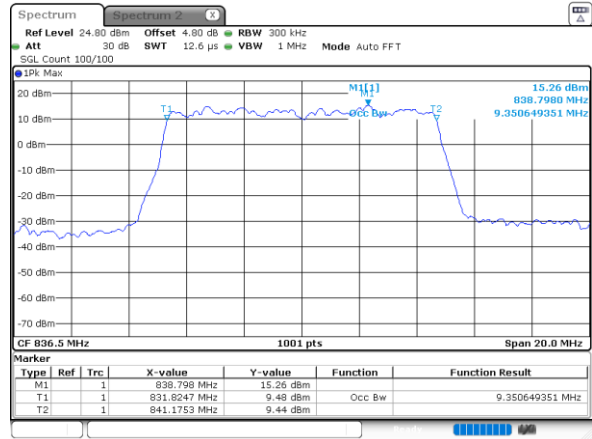


FR1 n5 / 10MHz / CP OFDM / Middle Channel / Full RB

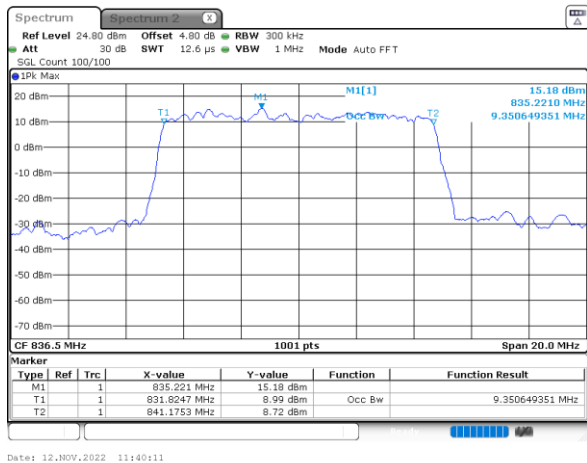
QPSK



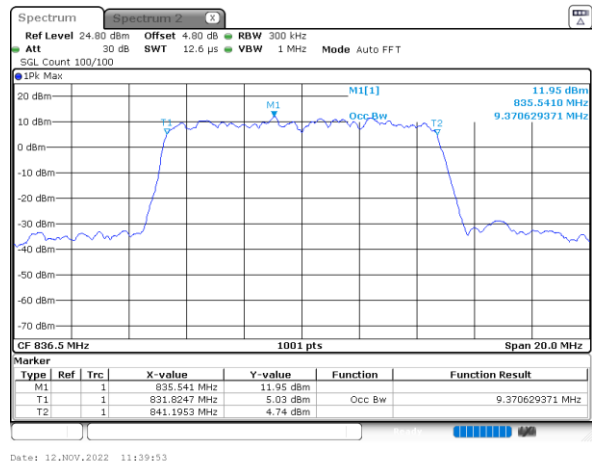
16QAM



64QAM



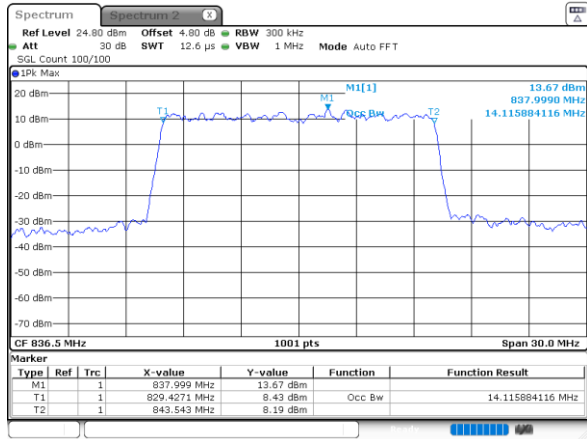
256QAM



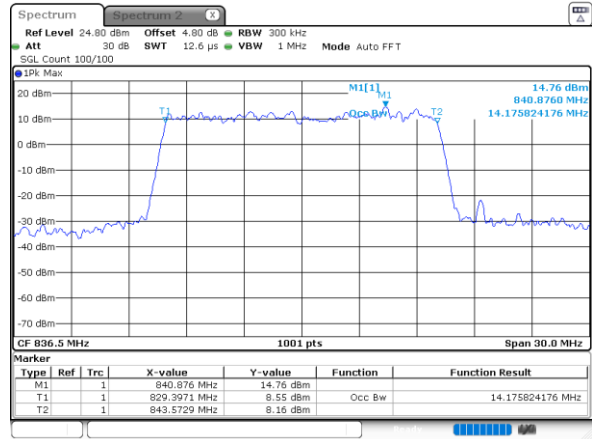


FR1 n5 / 15MHz / CP OFDM / Middle Channel / Full RB

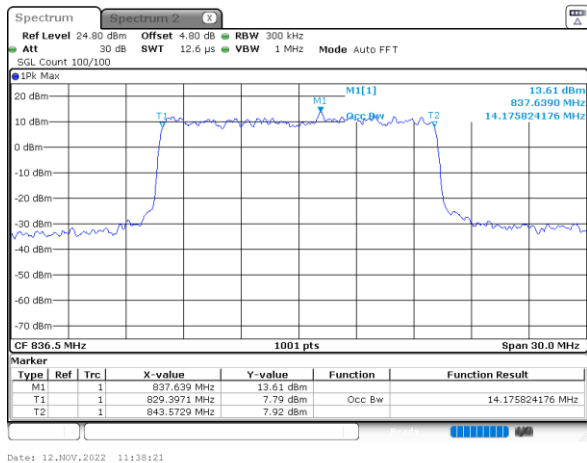
QPSK



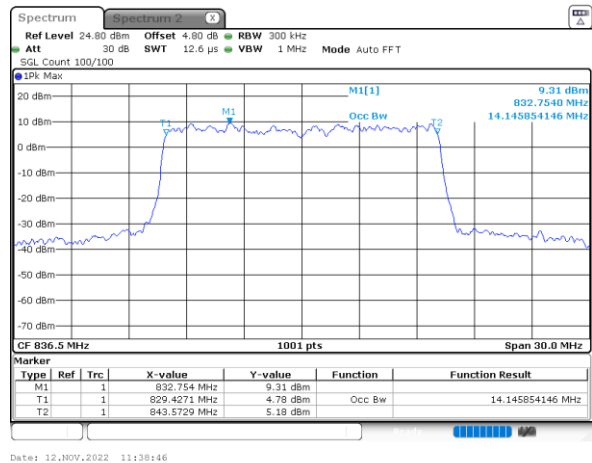
16QAM



64QAM



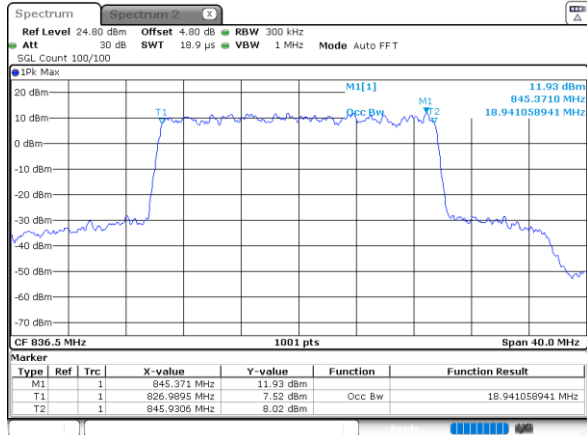
256QAM



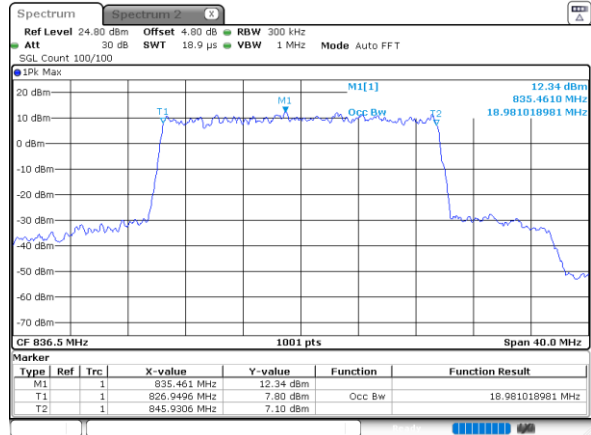


FR1 n5 / 20MHz / CP OFDM / Middle Channel / Full RB

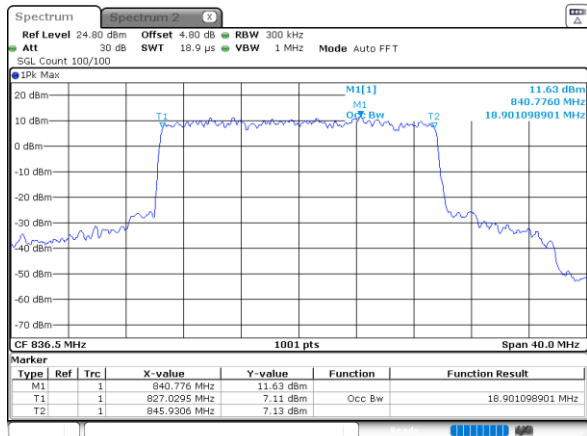
QPSK



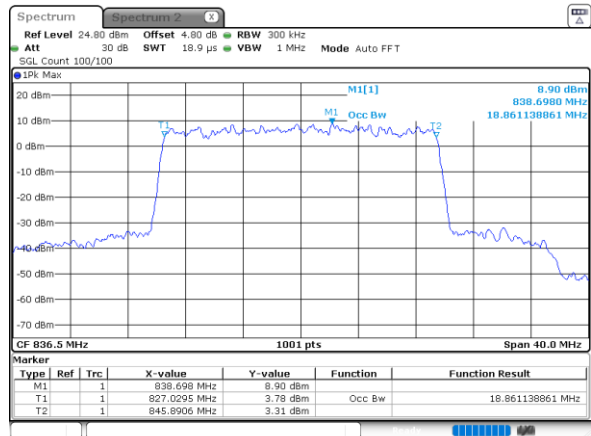
16QAM



64QAM



256QAM



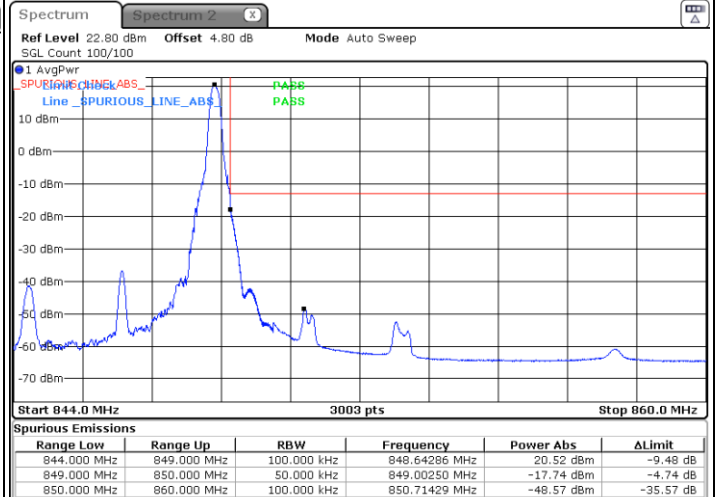
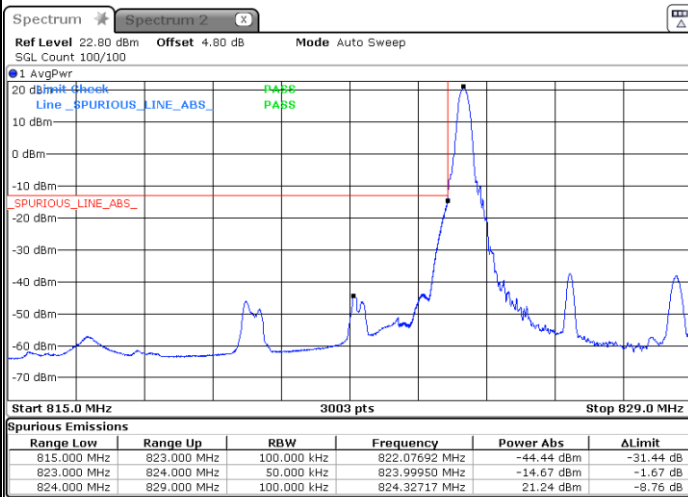


Conducted Band Edge

FR1 n5 / 5MHz / DFT-S OFDM / PI/2 BPSK

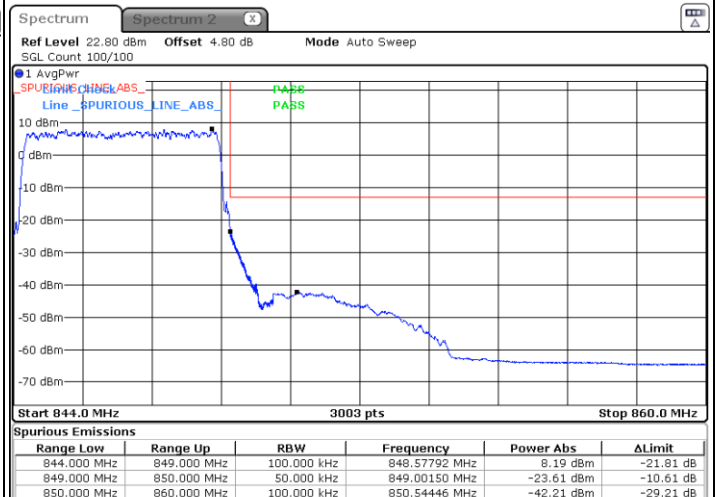
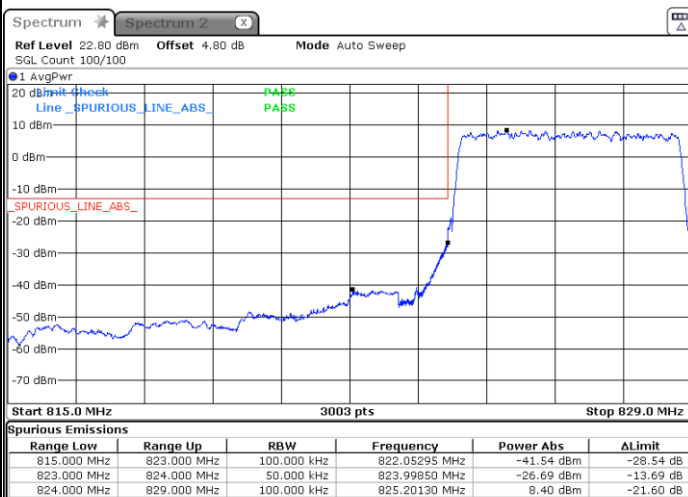
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB





Highest Band Edge / 1RBmax



Highest Band Edge / Full RB

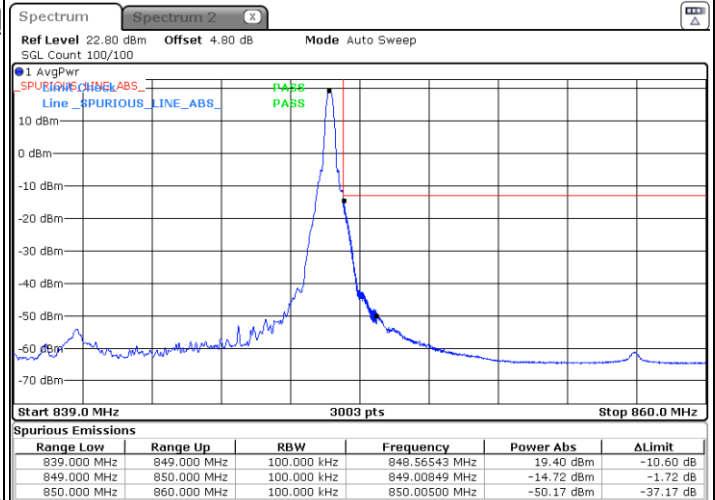
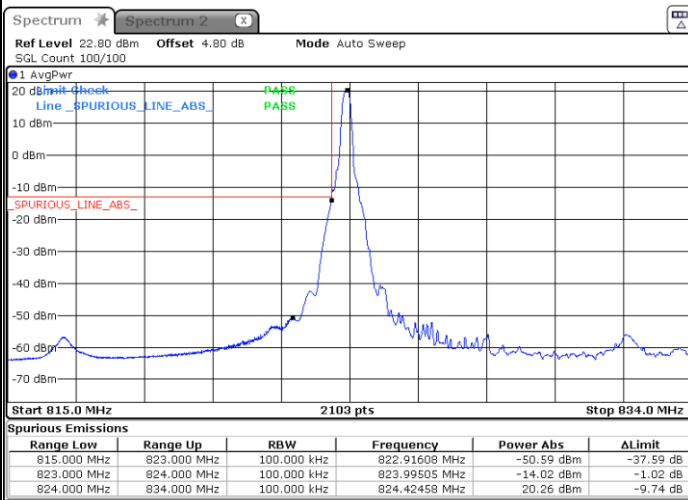




FR1 n5 / 10MHz / DFT-s-OFDM / PI/2 BPSK

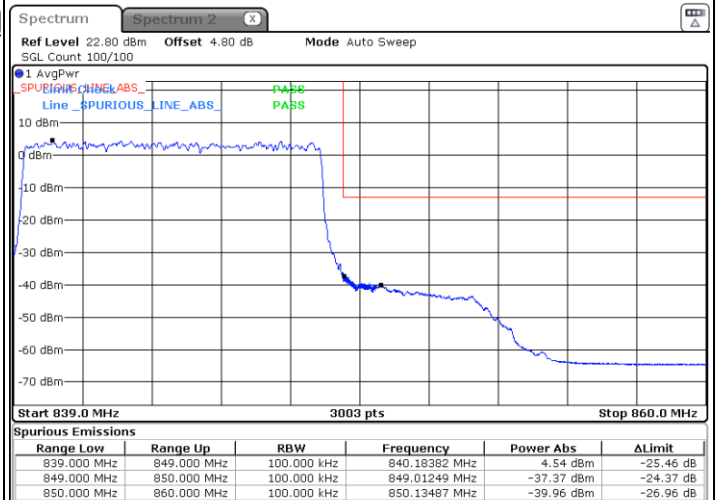
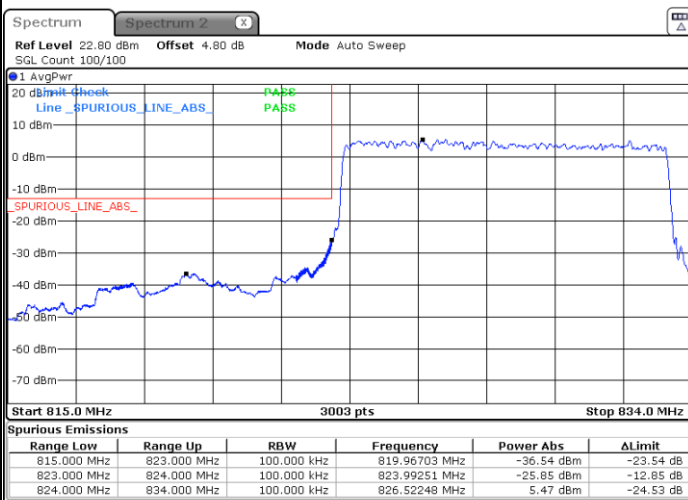
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

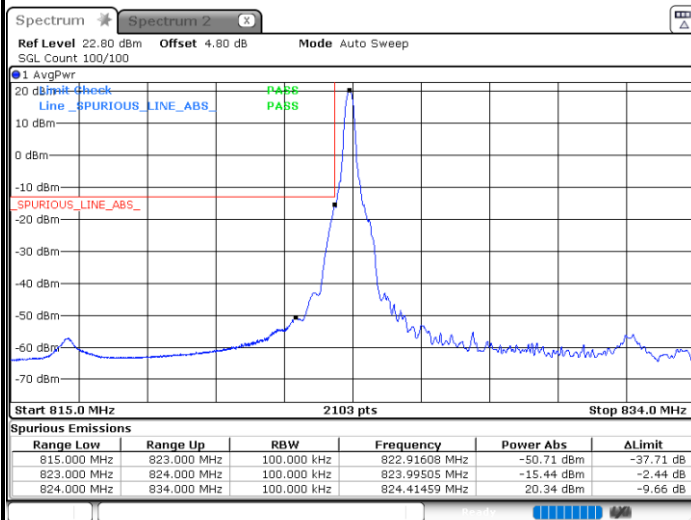
Highest Band Edge / Full RB



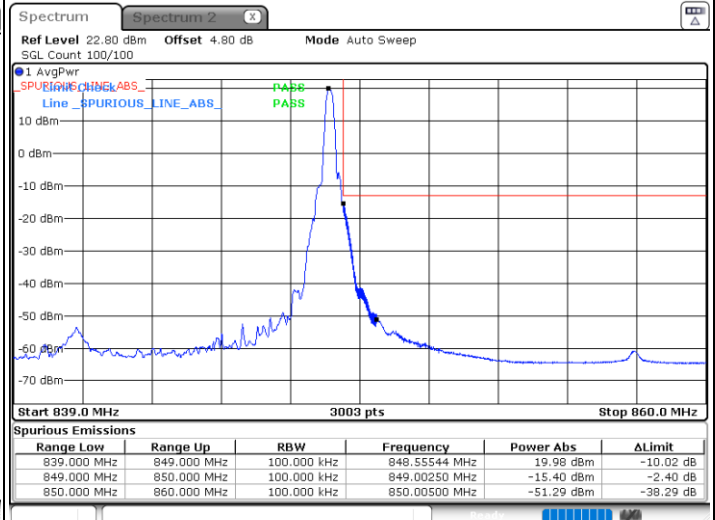


FR1 n5 / 10MHz / DFT-s-OFDM / QPSK

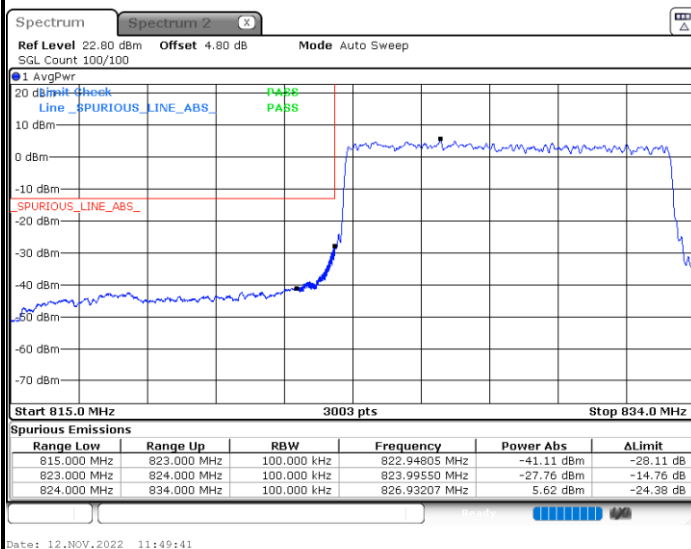
Lowest Band Edge / 1RB0



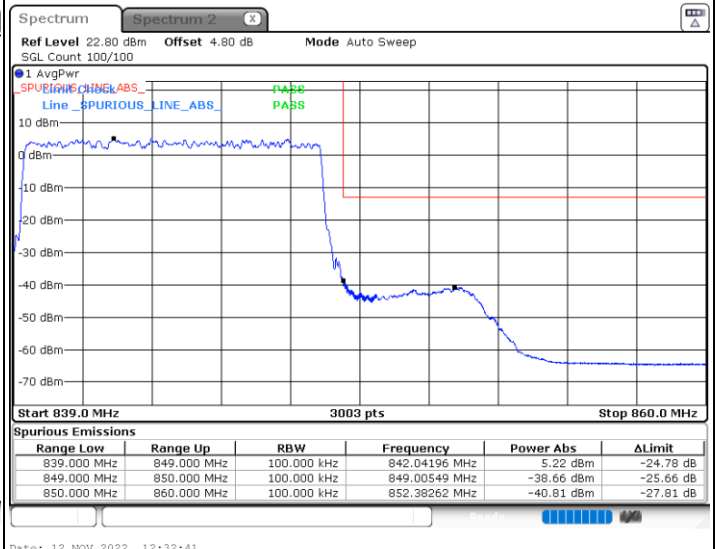
Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB



Highest Band Edge / Full RB

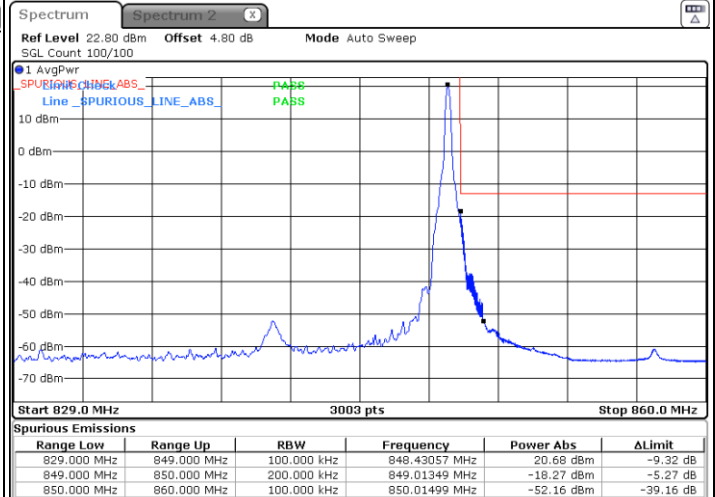
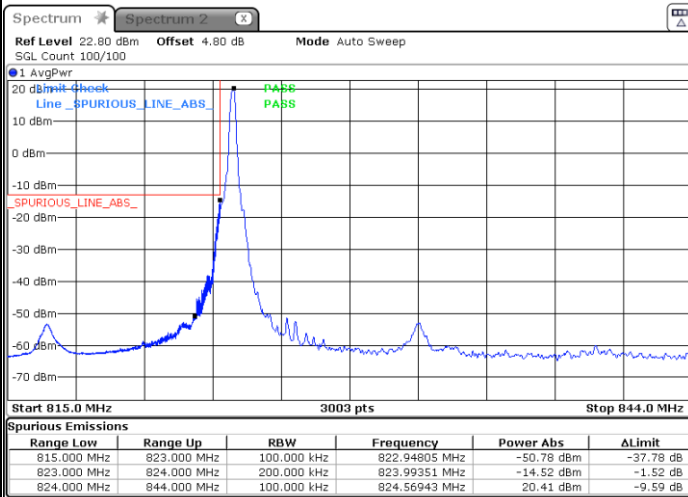




FR1 n5 / 20MHz / DFT-s-OFDM / PI/2 BPSK

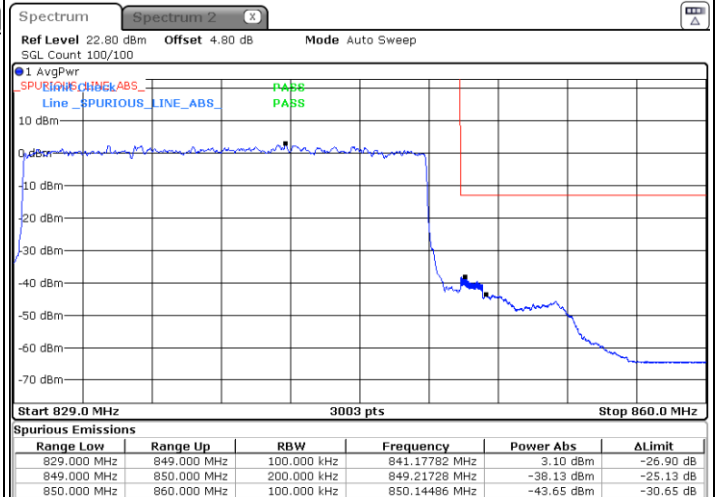
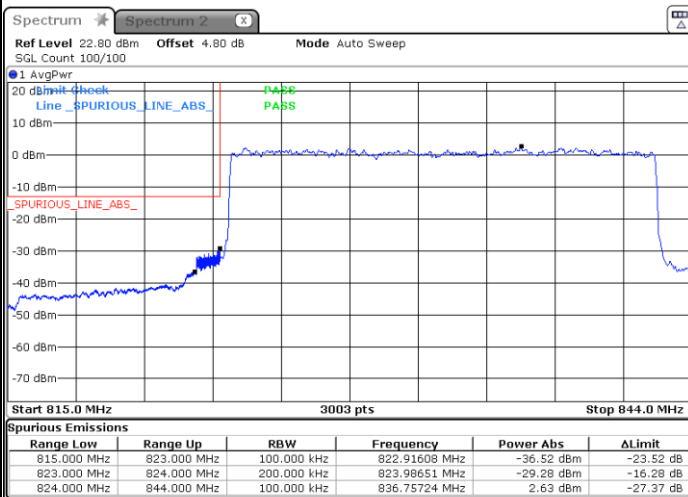
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

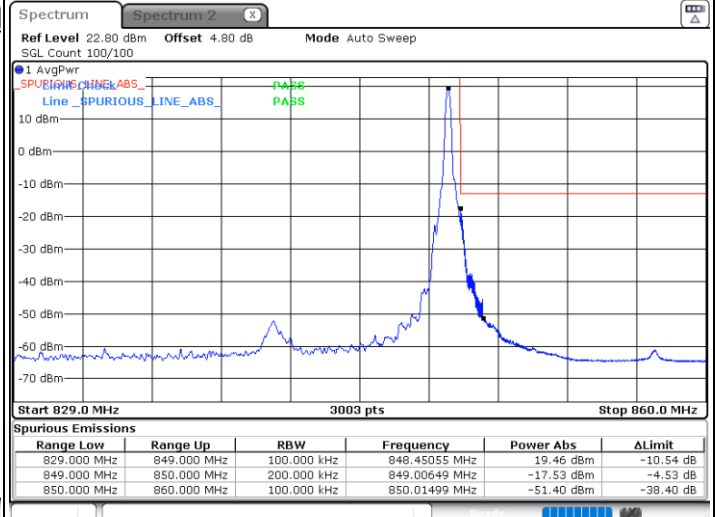
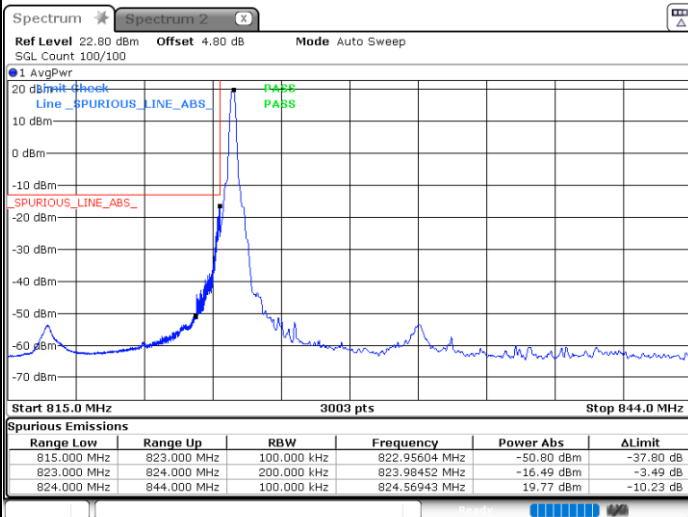




FR1 n5 / 20MHz / DFT-s-OFDM / QPSK

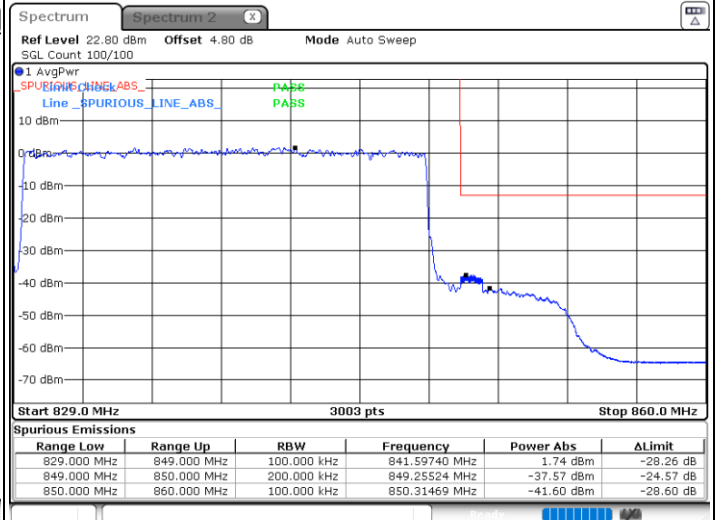
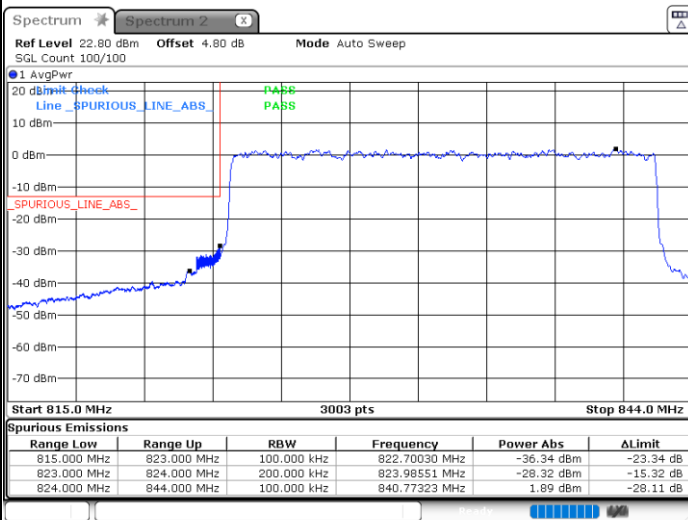
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

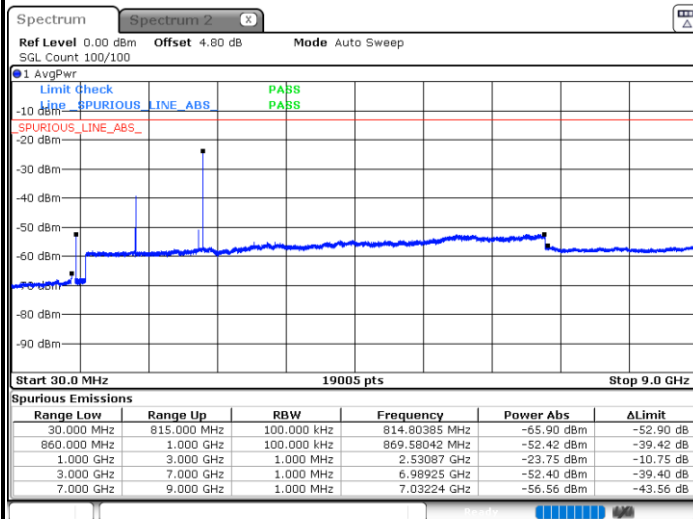




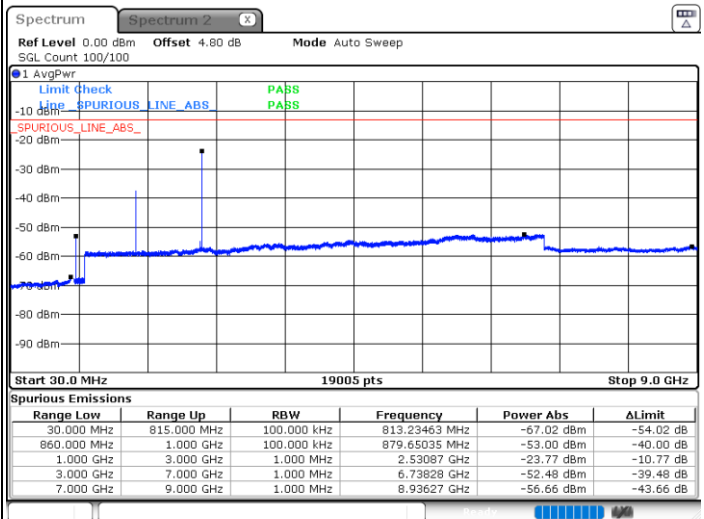
Conducted Spurious Emission

FR1 n5 / 5MHz / DFT-S OFDM / BPSK

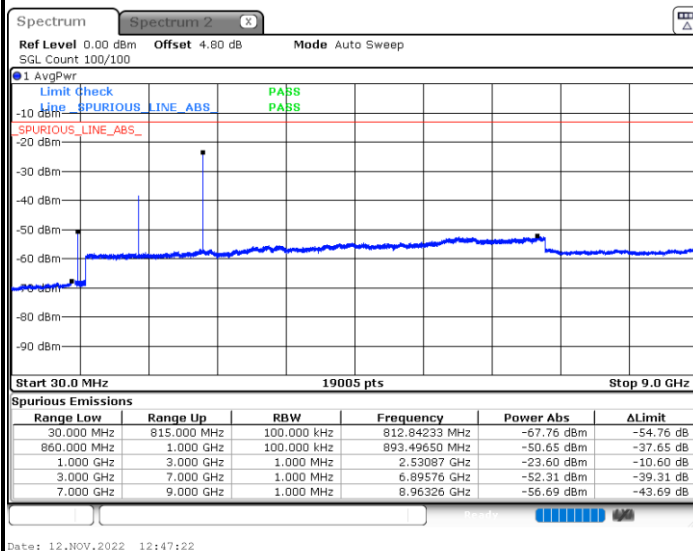
Lowest Channel / 1RB1



Middle Channel / 1RB1



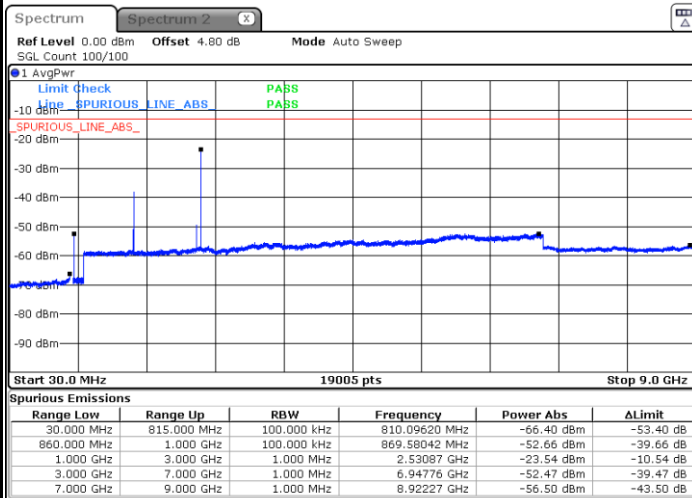
Highest Channel / 1RB1





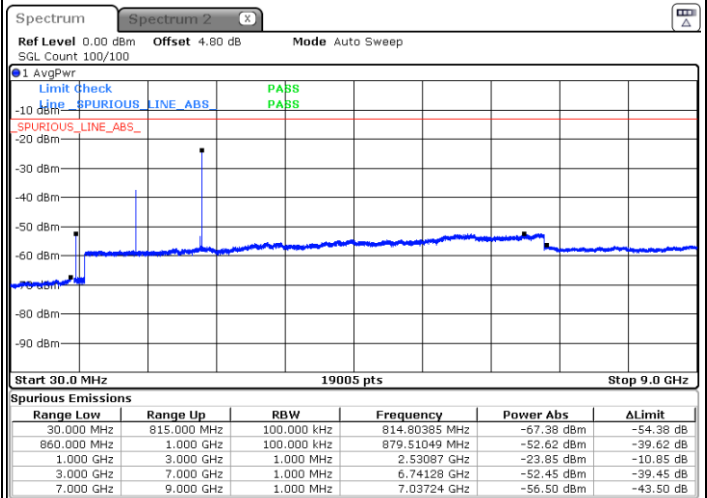
FR1 n5 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



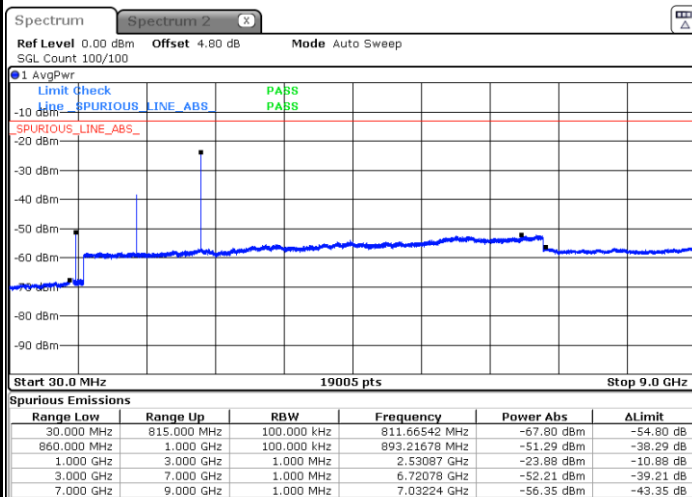
Date: 12.NOV.2022 12:38:50

Middle Channel / 1RB1



Date: 12.NOV.2022 12:37:39

Highest Channel / 1RB1

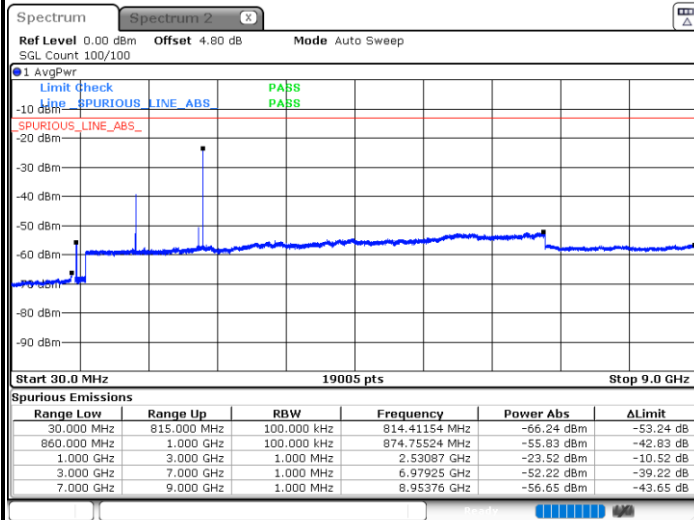


Date: 12.NOV.2022 12:47:53



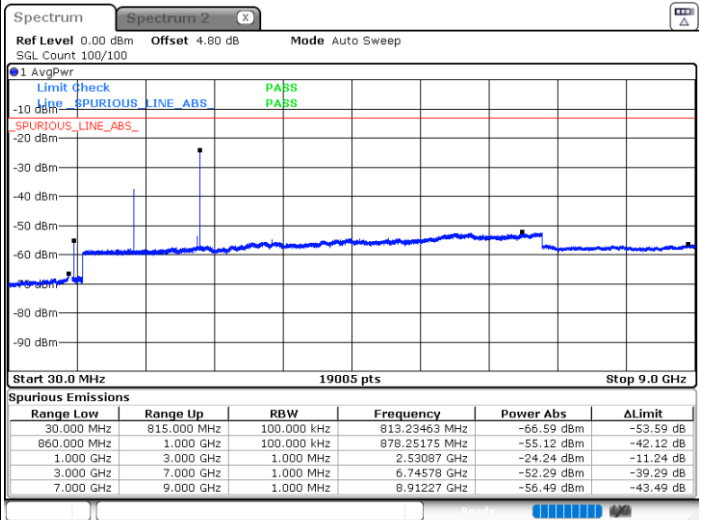
FR1 n5 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1



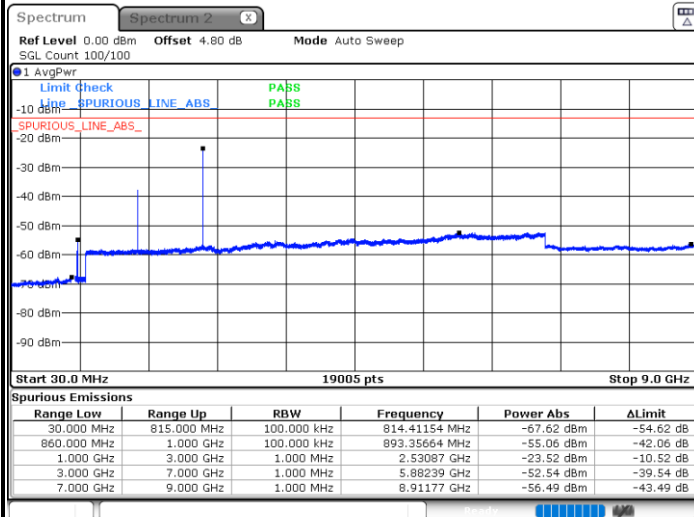
Date: 12.NOV.2022 12:24:04

Middle Channel / 1RB1



Date: 12.NOV.2022 12:28:06

Highest Channel / 1RB1

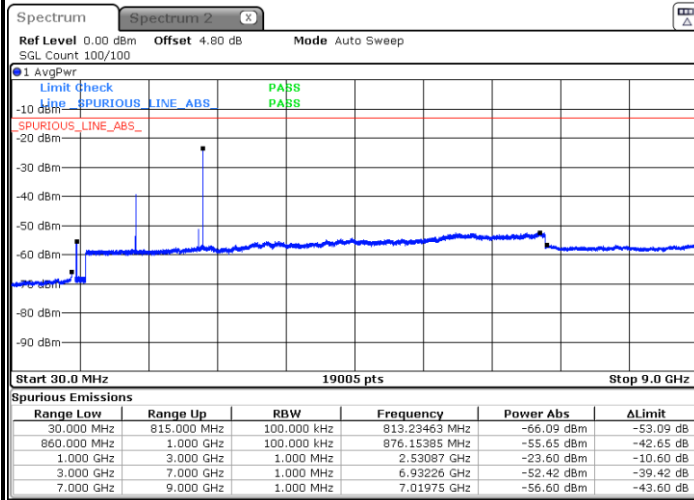


Date: 12.NOV.2022 12:29:05



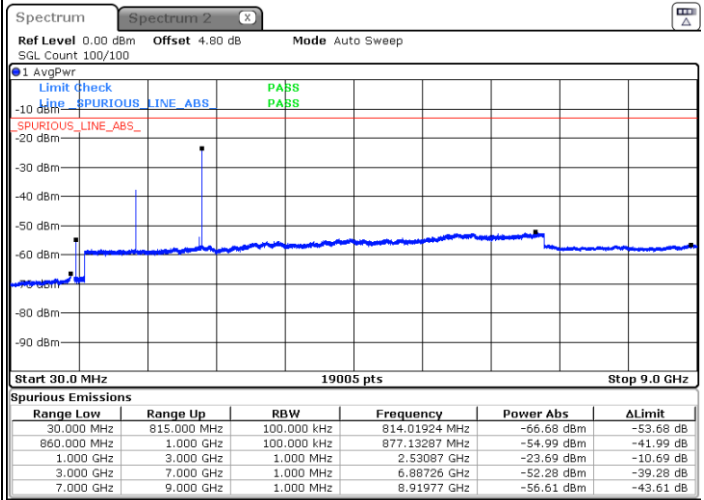
FR1 n5 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



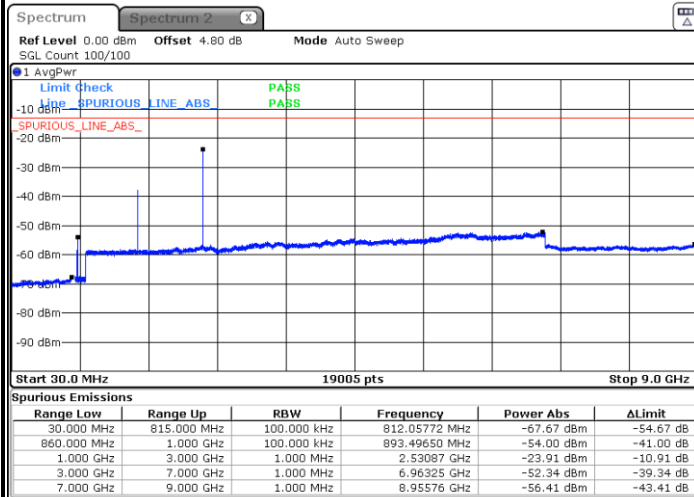
Date: 12.NOV.2022 12:26:04

Middle Channel / 1RB1



Date: 12.NOV.2022 12:27:20

Highest Channel / 1RB1

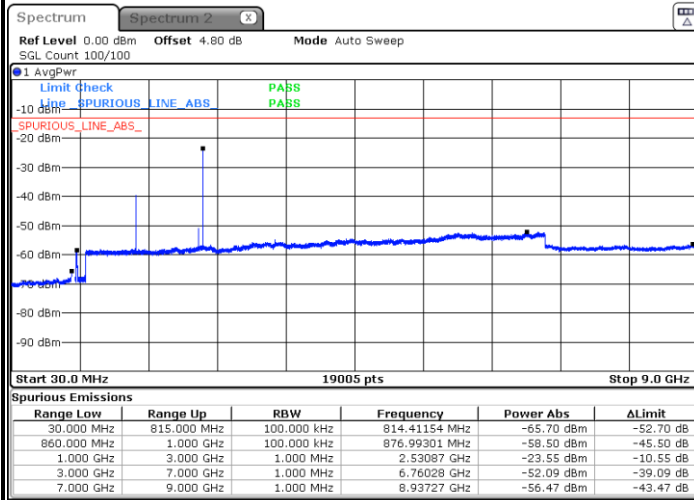


Date: 12.NOV.2022 12:29:42



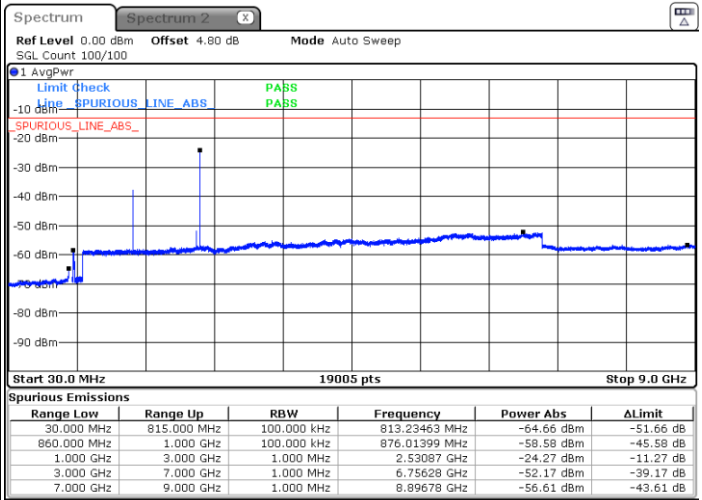
FR1 n5 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1



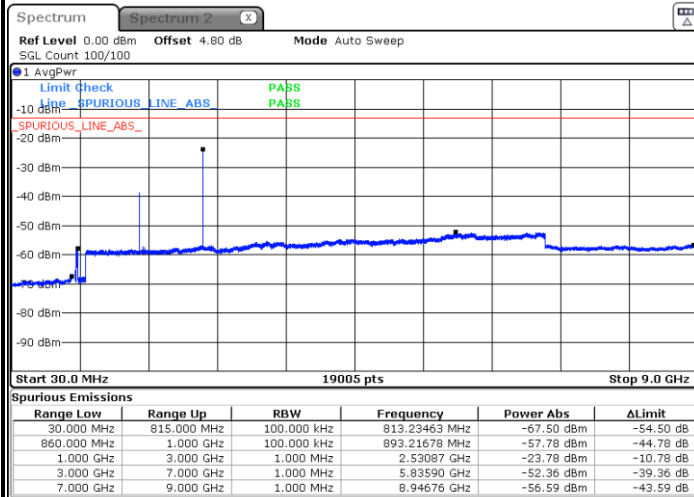
Date: 12.NOV.2022 11:26:26

Middle Channel / 1RB1



Date: 12.NOV.2022 11:22:11

Highest Channel / 1RB1

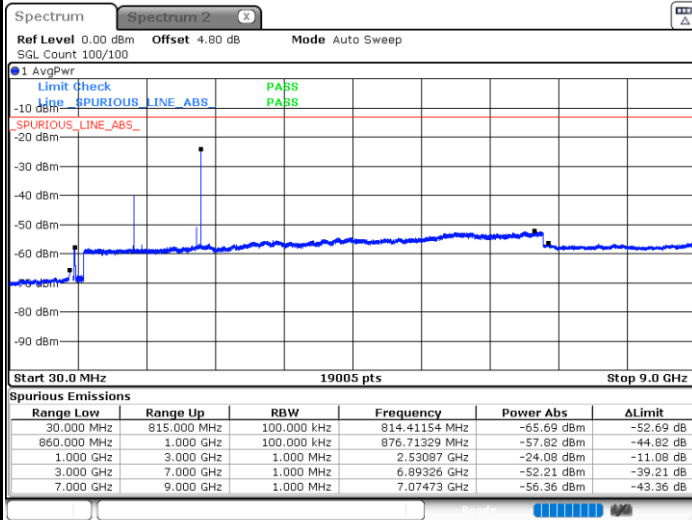


Date: 12.NOV.2022 11:35:29



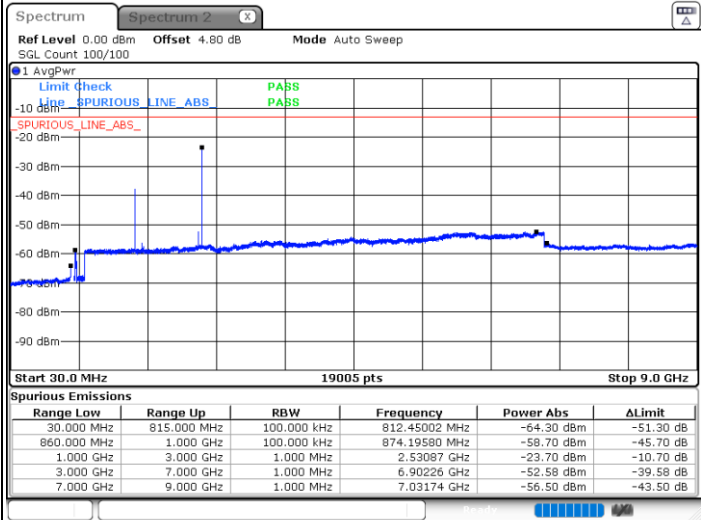
FR1 n5 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



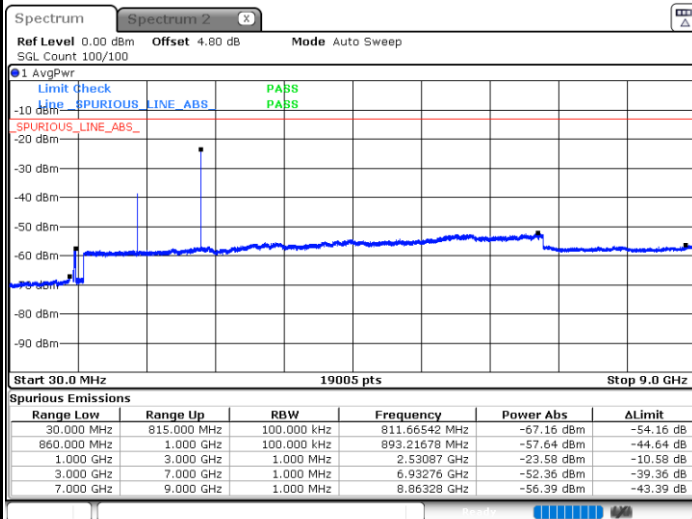
Date: 12.NOV.2022 11:25:54

Middle Channel / 1RB1



Date: 12.NOV.2022 11:23:15

Highest Channel / 1RB1



Date: 12.NOV.2022 11:35:53

**Frequency Stability**

Test Conditions		FR1 n5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0025	PASS
40	Normal Voltage	0.0036	
30	Normal Voltage	0.0017	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0018	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0017	
-20	Normal Voltage	0.0028	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0019	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0016	

Note: Normal Voltage =3.89V. ; Battery End Point (BEP) =3.4V. ; Maximum Voltage =4.48 V.



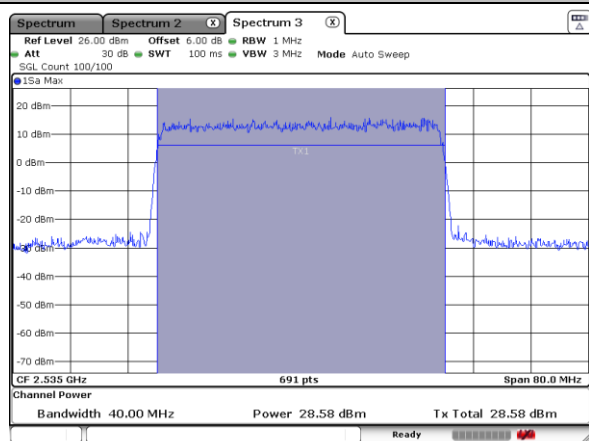
FR1 n7(Main PA)

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	6.62	6.69			PASS

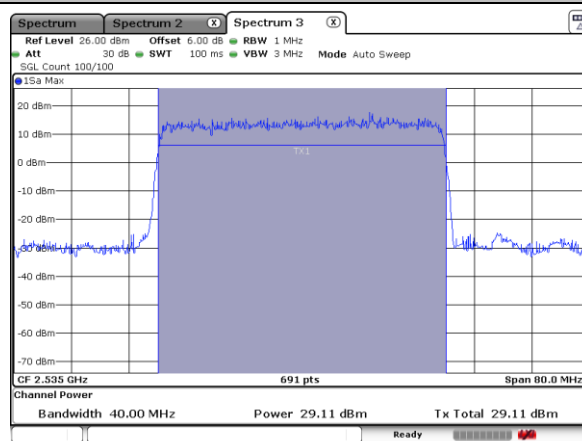
FR1 n7 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



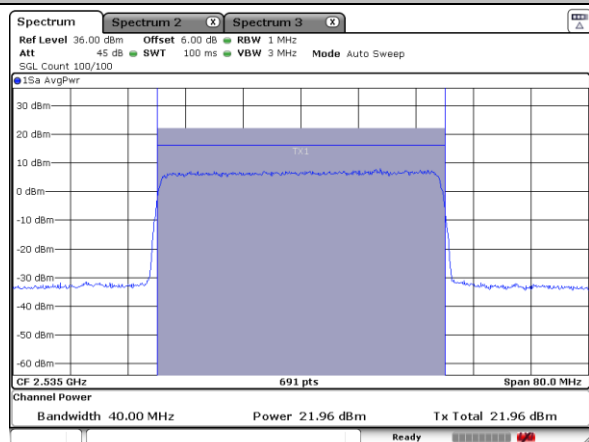
Date: 8.NOV.2022 09:39:22

QPSK



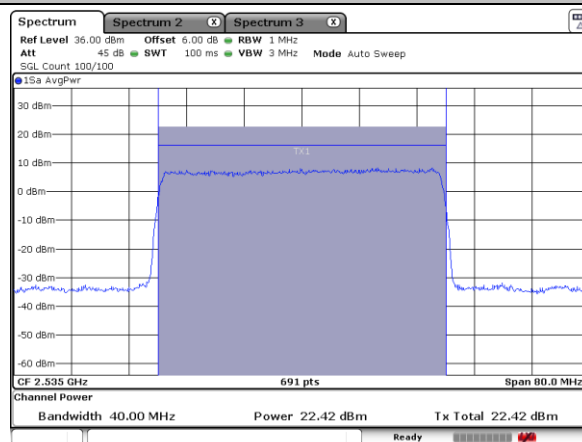
Date: 8.NOV.2022 09:40:44

PI/2 BPSK



Date: 8.NOV.2022 09:39:52

QPSK



Date: 8.NOV.2022 09:40:22

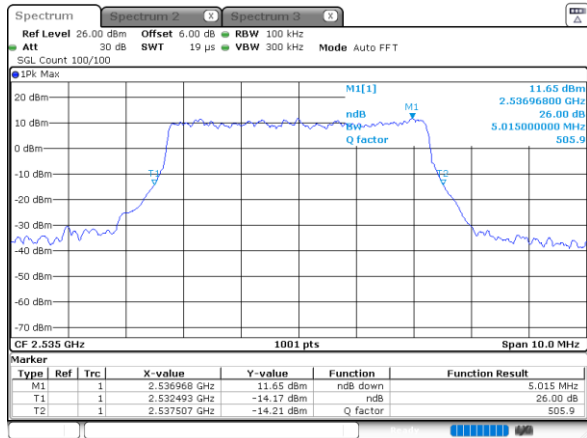
26dB Bandwidth

Mode	FR1 n7 : 26dBW (MHz) / CP OFDM						
BW	5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz
Mod.	QPSK	QPSK	QPSK	QPSK	QPSK	QPSK	QPSK
Middle CH	5.02	10.17	15.02	20.18	24.62	29.57	41.08
BW	5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz
Mod.	16QAM	16QAM	16QAM	16QAM	16QAM	16QAM	16QAM
Middle CH	5.16	10.13	15.02	19.86	24.66	29.65	40.92
BW	5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz
Mod.	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM
Middle CH	5.14	10.15	14.84	20.02	24.86	29.73	41.08
BW	5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz
Mod.	256QAM	256QAM	256QAM	256QAM	256QAM	256QAM	256QAM
Middle CH	5.07	10.25	15.08	19.98	24.74	29.73	41.08

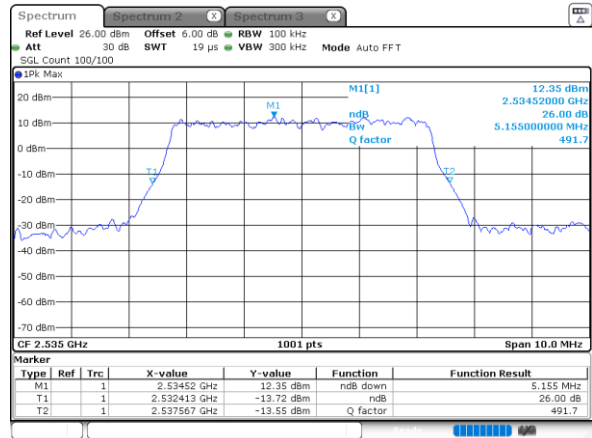


FR1 n7 / 5MHz / CP OFDM / Middle Channel / Full RB

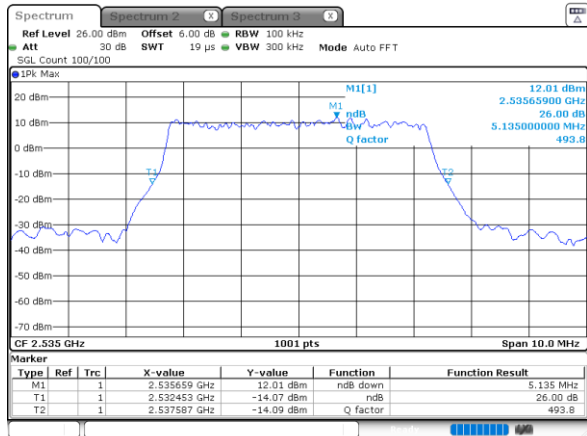
QPSK



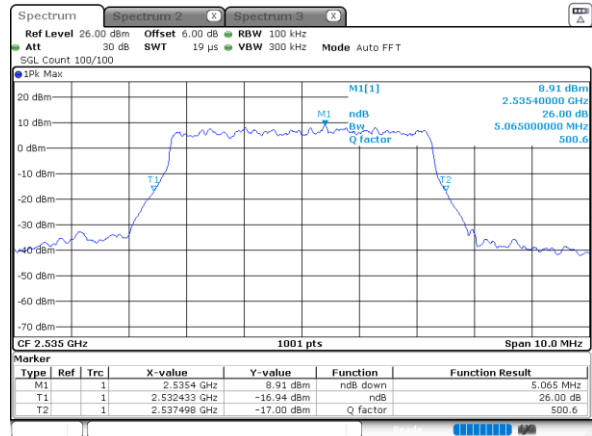
16QAM



64QAM



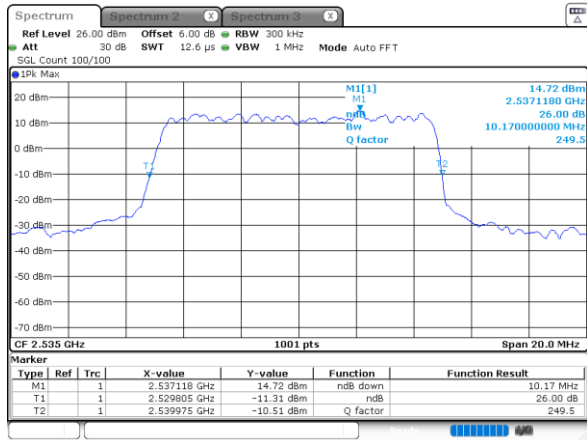
256QAM



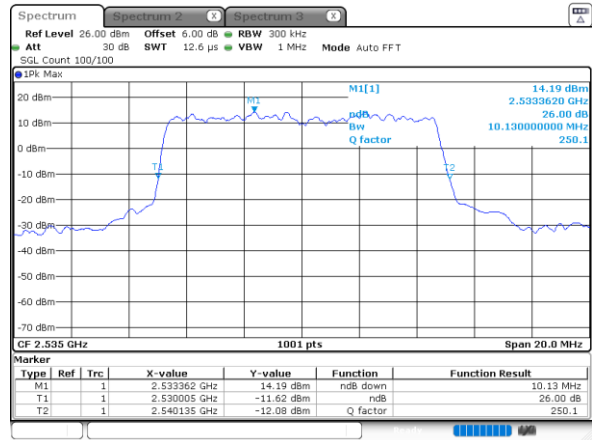


FR1 n7 / 10MHz / CP OFDM / Middle Channel / Full RB

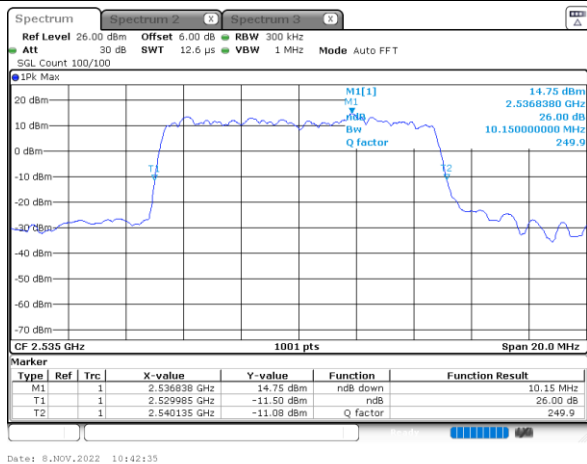
QPSK



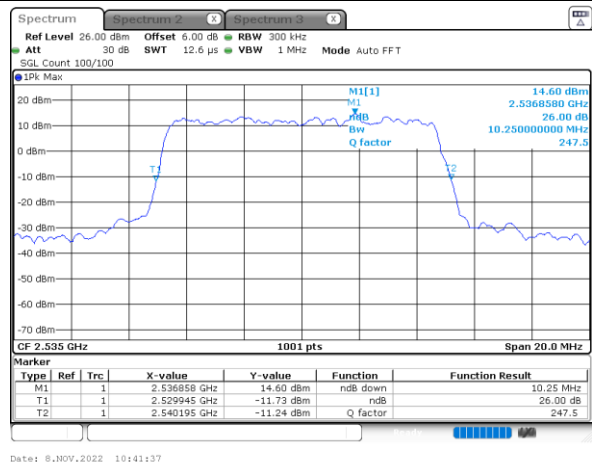
16QAM



64QAM



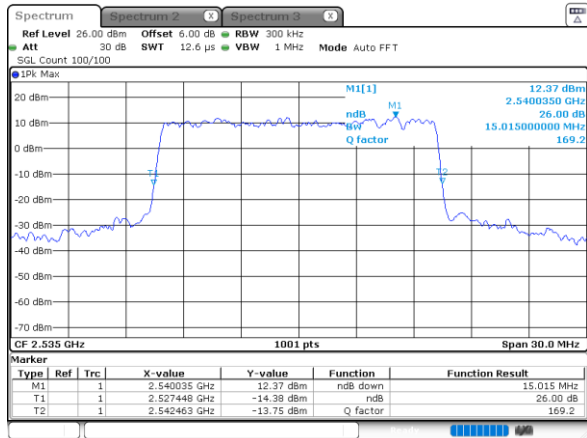
256QAM



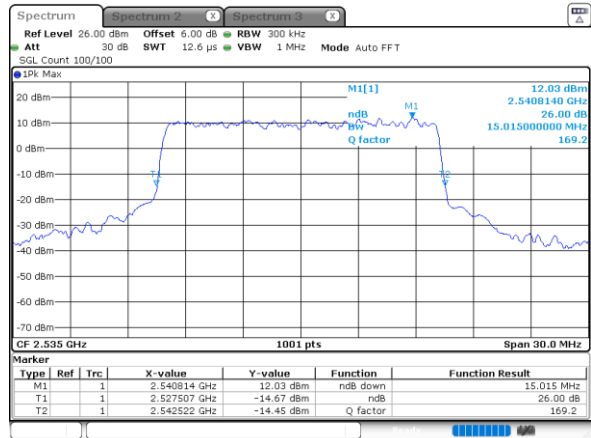


FR1 n7 / 15MHz / CP OFDM / Middle Channel / Full RB

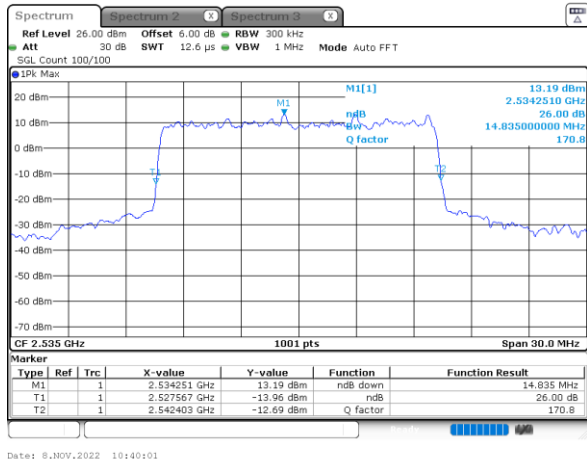
QPSK



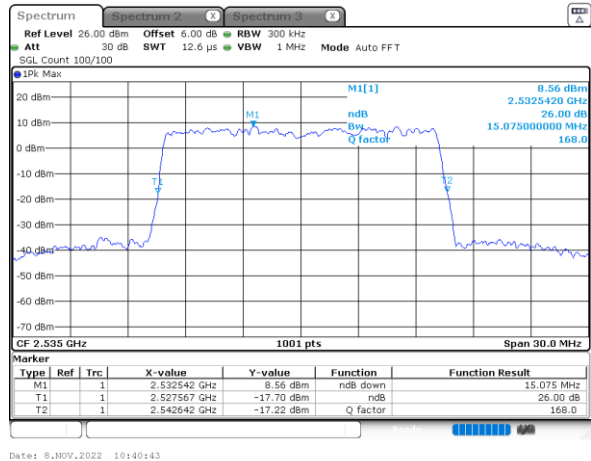
16QAM



64QAM



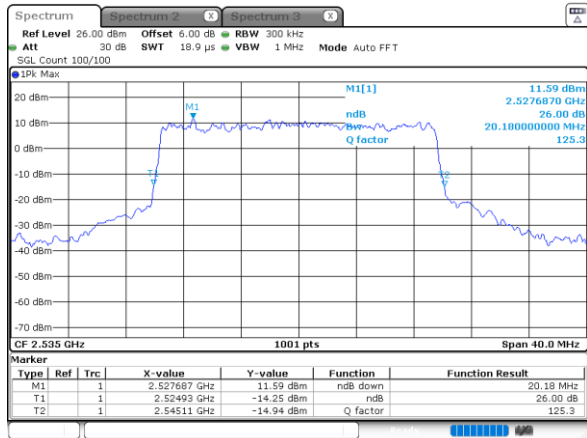
256QAM



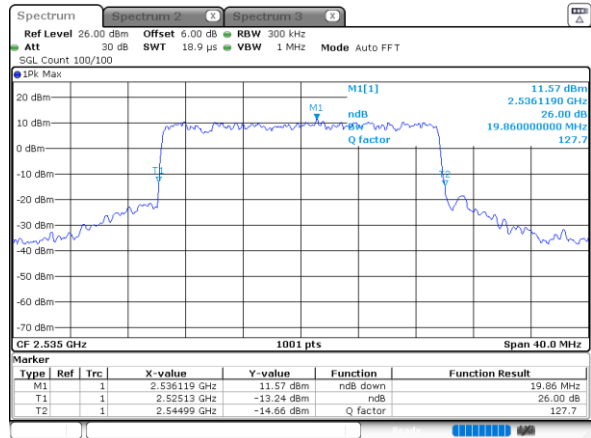


FR1 n7 / 20MHz / CP OFDM / Middle Channel / Full RB

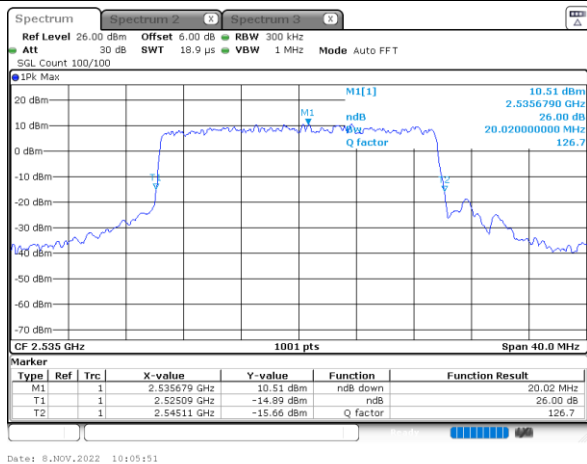
QPSK



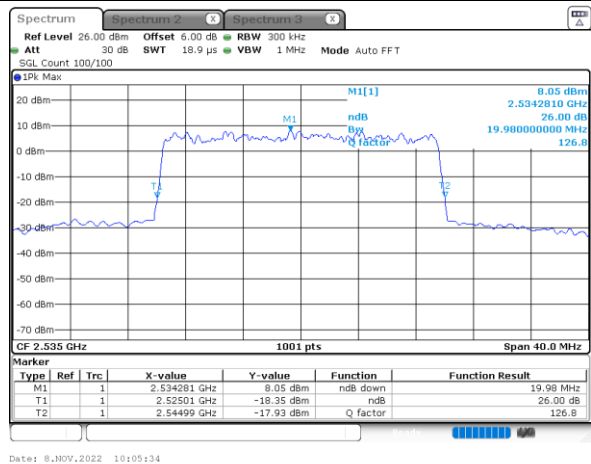
16QAM



64QAM



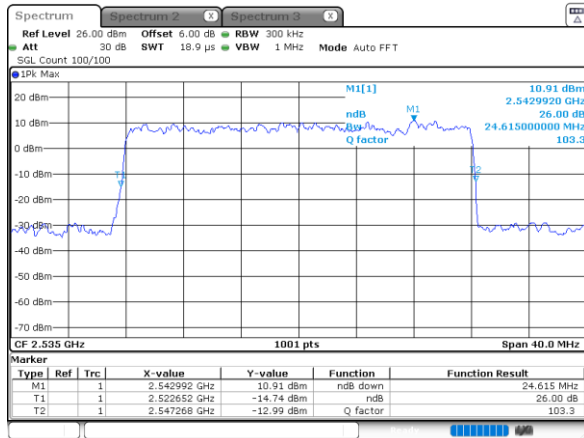
256QAM



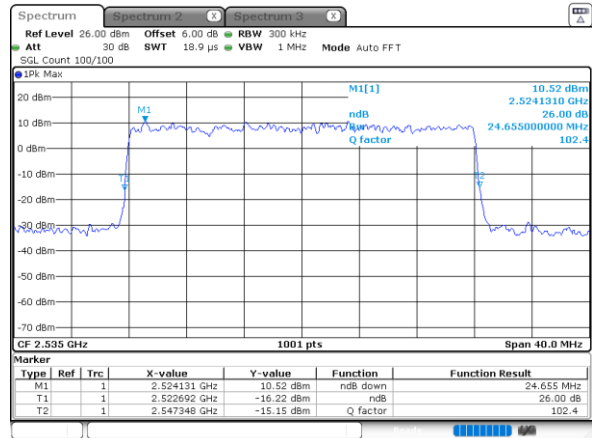


FR1 n7 / 25MHz / CP OFDM / Middle Channel / Full RB

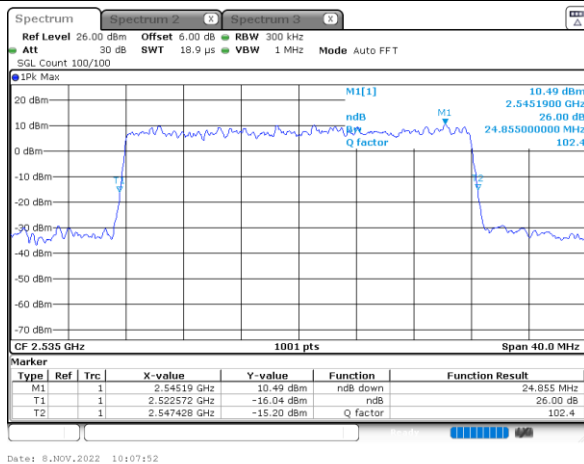
QPSK



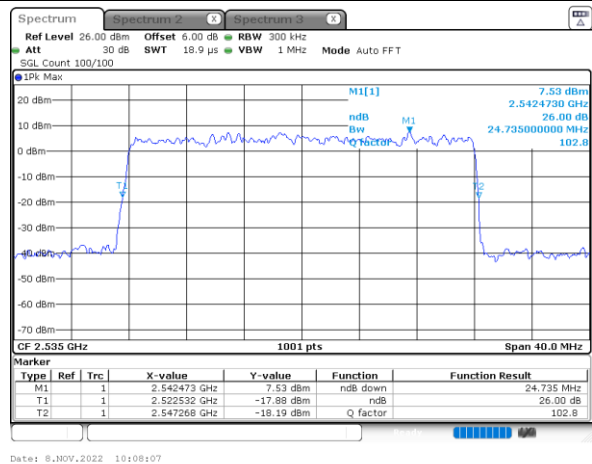
16QAM



64QAM



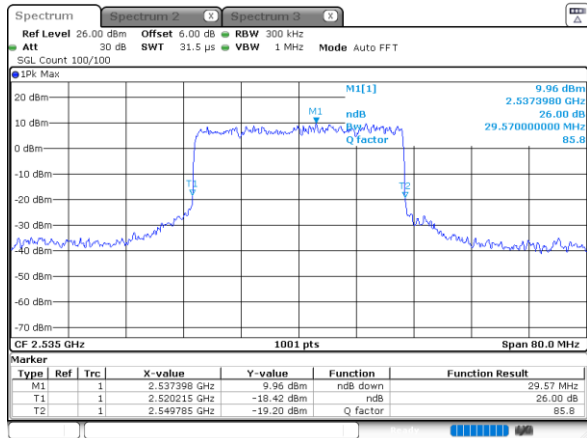
256QAM



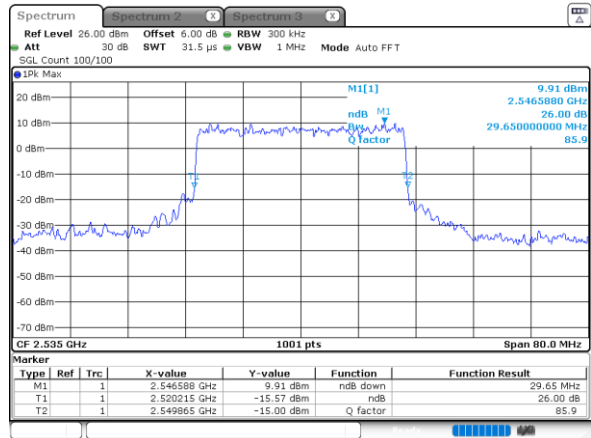


FR1 n7 / 30MHz / CP OFDM / Middle Channel / Full RB

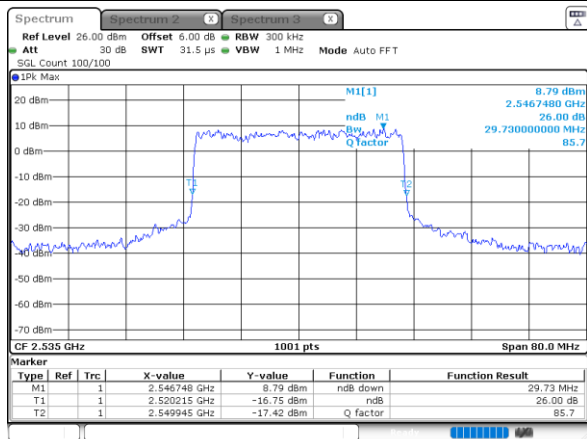
QPSK



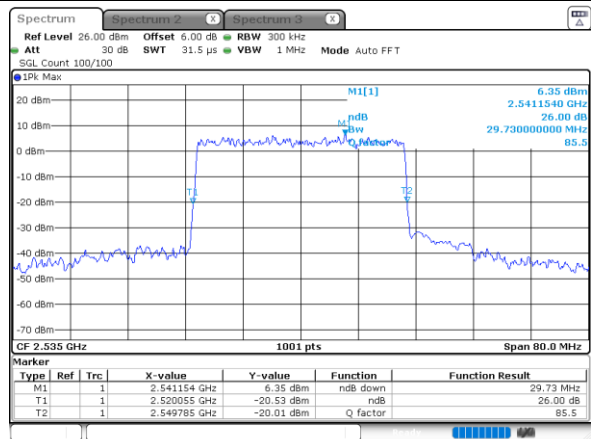
16QAM



64QAM



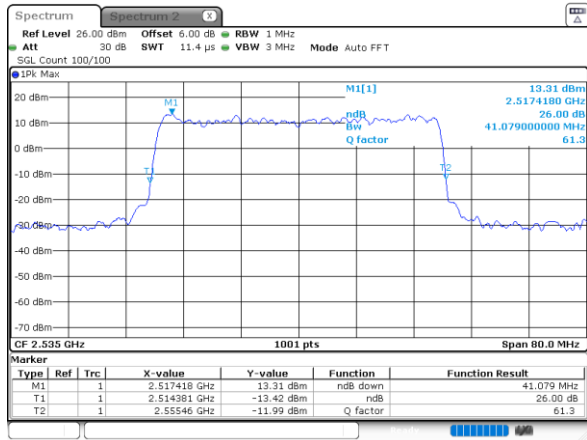
256QAM



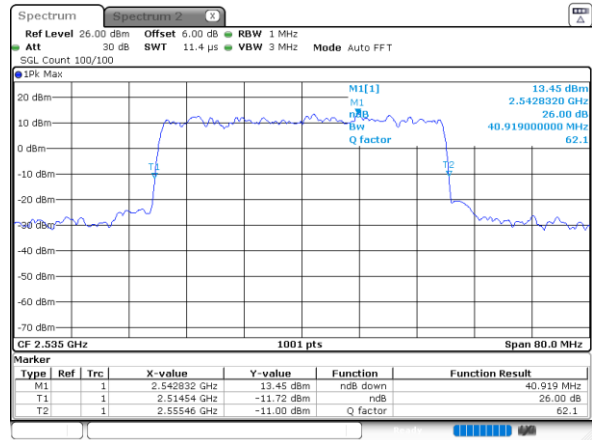


FR1 n7 / 40MHz / CP OFDM / Middle Channel / Full RB

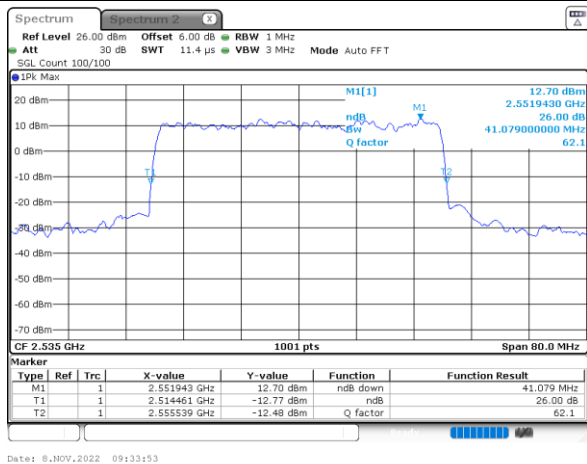
QPSK



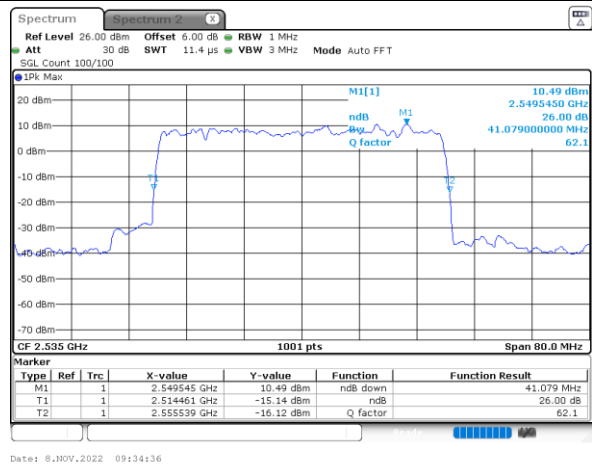
16QAM



64QAM



256QAM



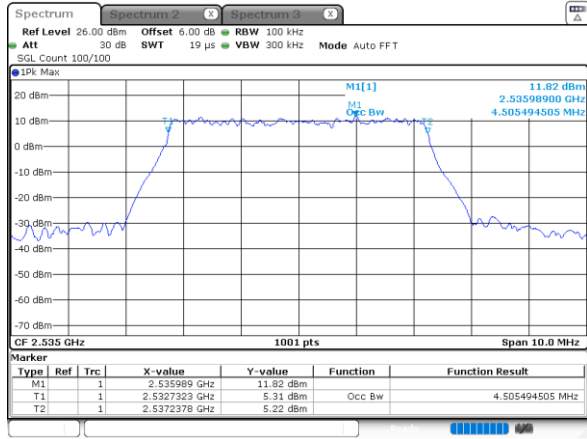
Occupied Bandwidth

Mode	FR1 n7 : 99%OBW (MHz) / CP OFDM						
BW	5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz
Mod.	QPSK	QPSK	QPSK	QPSK	QPSK	QPSK	QPSK
Middle CH	4.51	9.33	14.21	18.94	23.70	28.53	38.76
BW	5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz
Mod.	16QAM	16QAM	16QAM	16QAM	16QAM	16QAM	16QAM
Middle CH	4.49	9.35	14.15	18.94	23.74	28.61	38.92
BW	5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz
Mod.	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM
Middle CH	4.51	9.33	14.12	18.94	23.74	28.45	38.92
BW	5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz
Mod.	256QAM	256QAM	256QAM	256QAM	256QAM	256QAM	256QAM
Middle CH	4.50	9.35	14.15	18.90	23.74	28.69	38.92

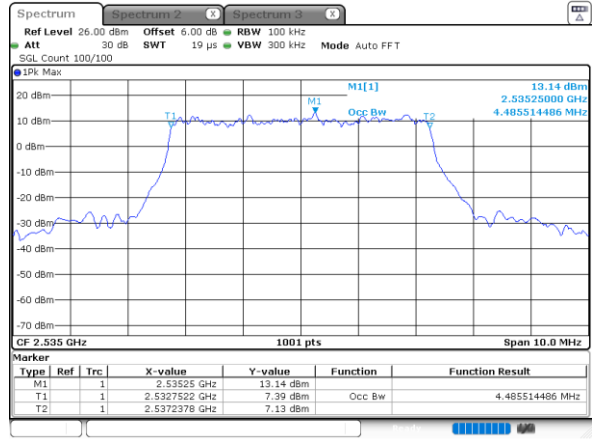


FR1 n7 / 5MHz / CP OFDM / Middle Channel / Full RB

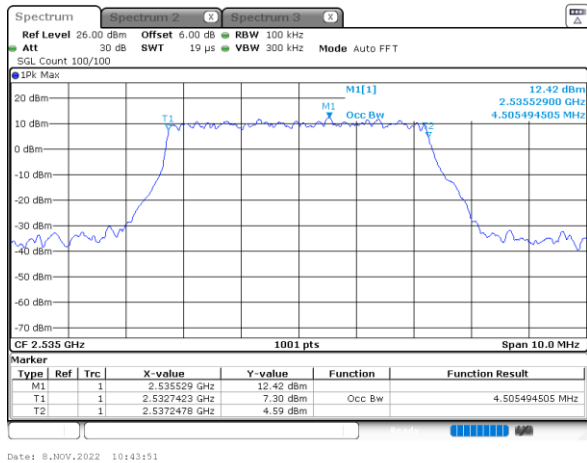
QPSK



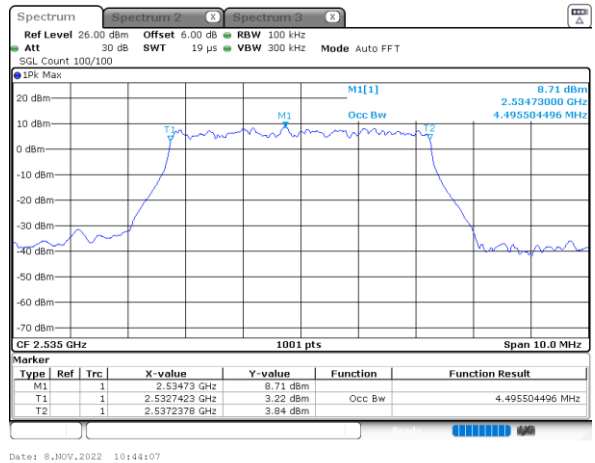
16QAM



64QAM



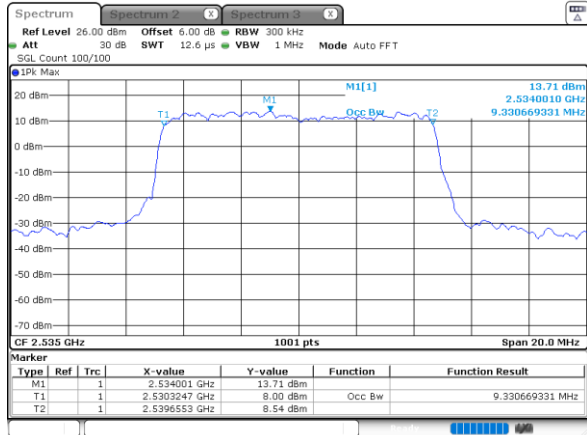
256QAM



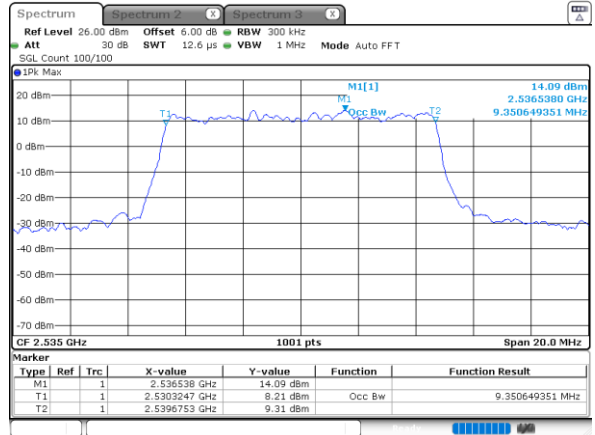


FR1 n7 / 10MHz / CP OFDM / Middle Channel / Full RB

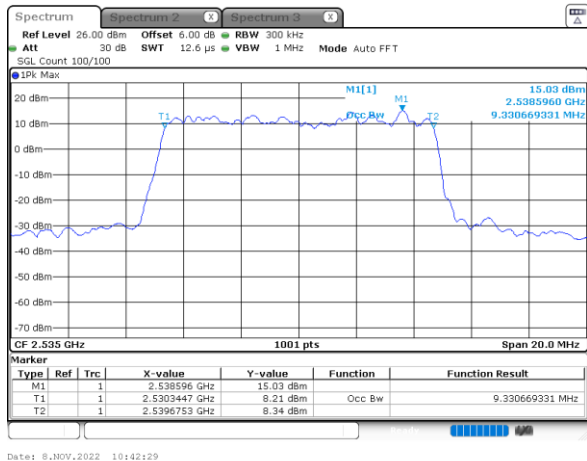
QPSK



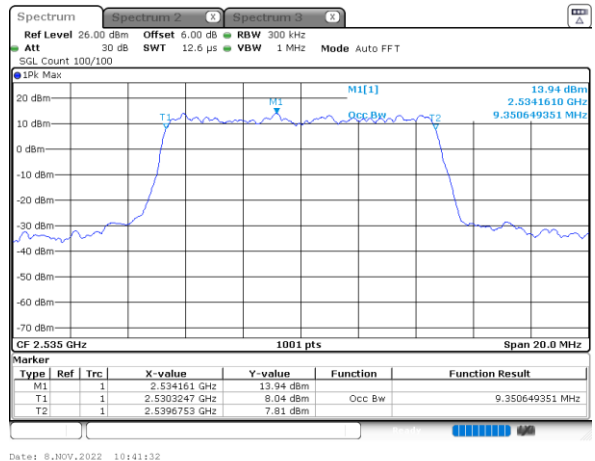
16QAM



64QAM



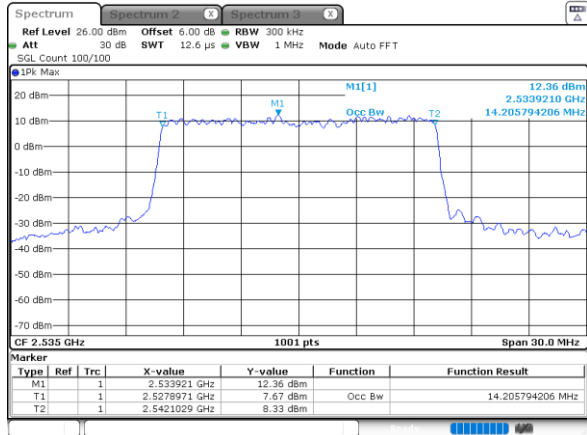
256QAM



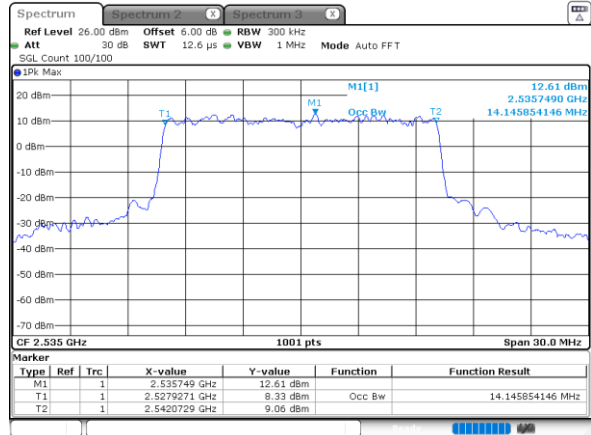


FR1 n7 /15MHz / CP OFDM / Middle Channel / Full RB

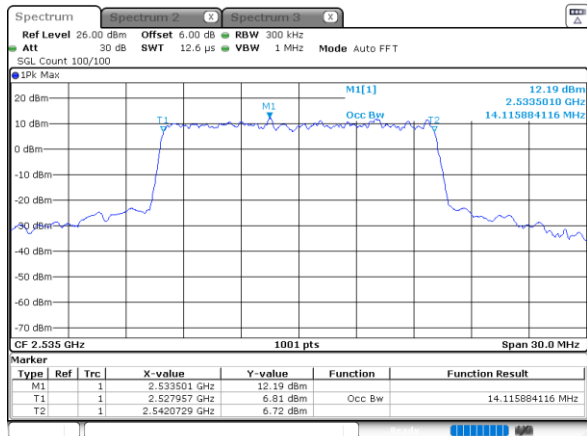
QPSK



16QAM



64QAM



256QAM

