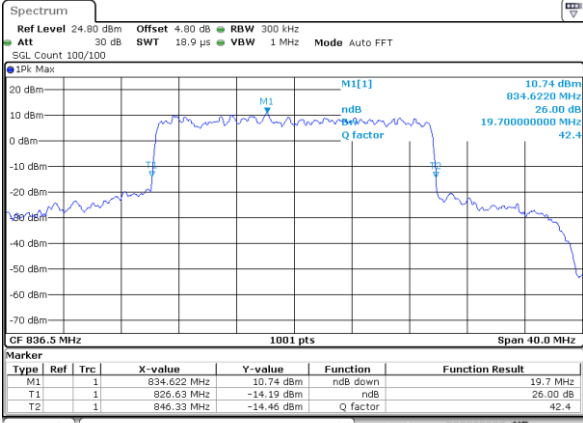




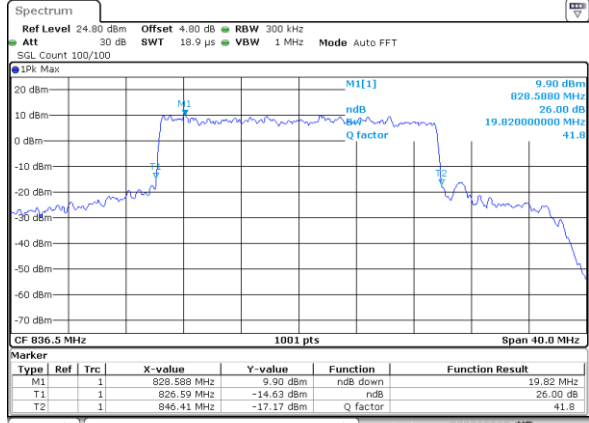
FR1 n5 / 20MHz / CP OFDM

QPSK



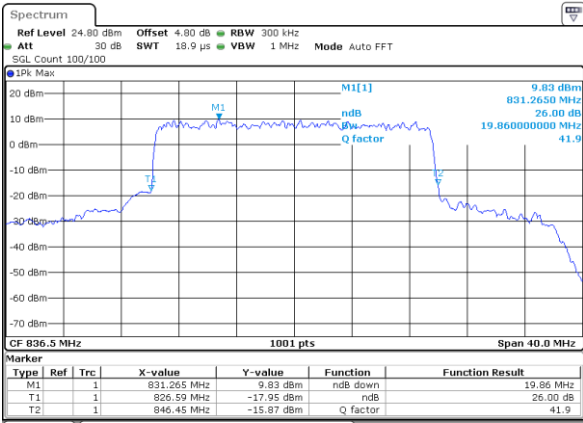
Date: 9,SEP,2022 03:21:19

16QAM



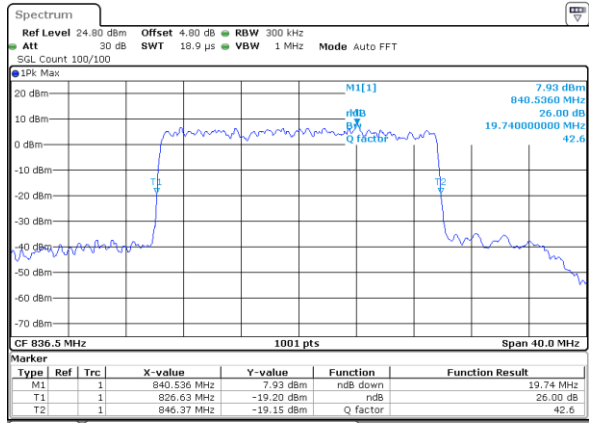
Date: 9,SEP,2022 03:21:50

64QAM



Date: 9,SEP,2022 03:22:46

256QAM



Date: 9,SEP,2022 03:23:31



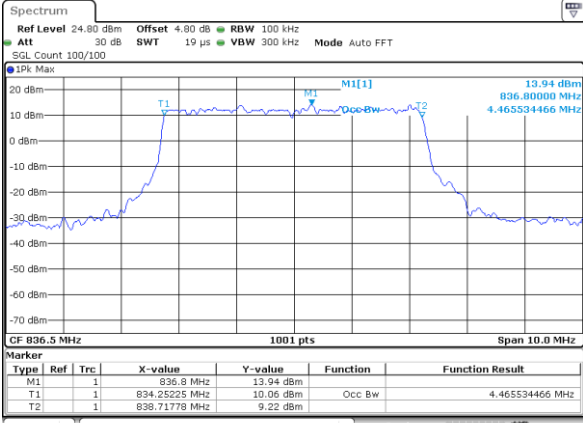
Occupied Bandwidth

Mode	FR1 n5 : OB (MHz) / CP OFDM									
BW	5M					10M				
Mod.	QPSK	16QAM	64QAM	256QAM		QPSK	16QAM	64QAM	256QAM	
Middle CH	4.47	4.50	4.50	4.51		9.35	9.37	9.37	9.37	
BW	15M					20M				
Mod.	QPSK	16QAM	64QAM	256QAM		QPSK	16QAM	64QAM	256QAM	
Middle CH	13.46	13.52	13.43	13.46		18.90	18.98	18.90	18.86	



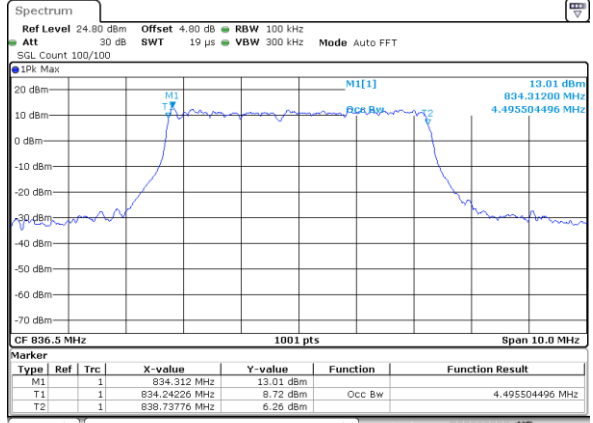
FR1 n5 / 5MHz / CP OFDM

QPSK



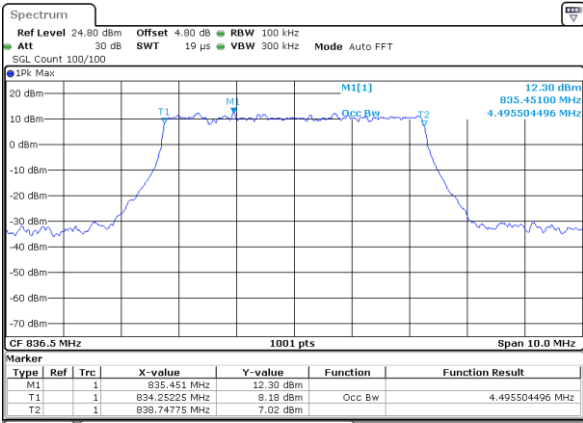
Date: 9,SEP,2022 03:58:22

16QAM



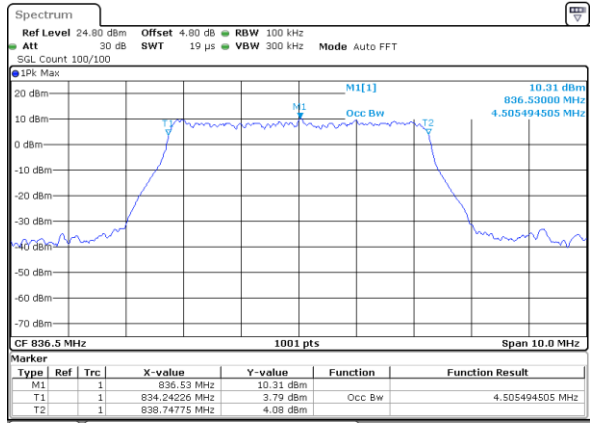
Date: 9,SEP,2022 03:58:59

64QAM



Date: 9,SEP,2022 03:59:39

256QAM

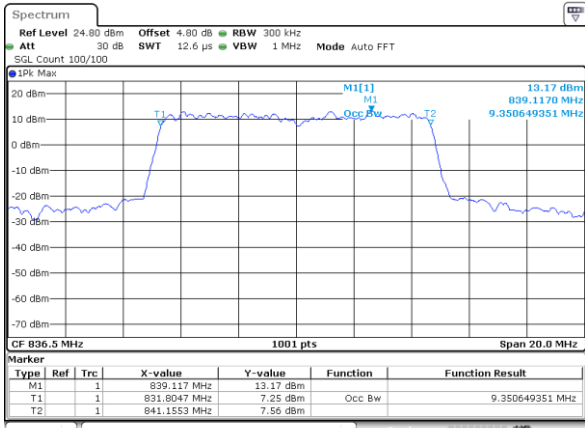


Date: 9,SEP,2022 04:00:20



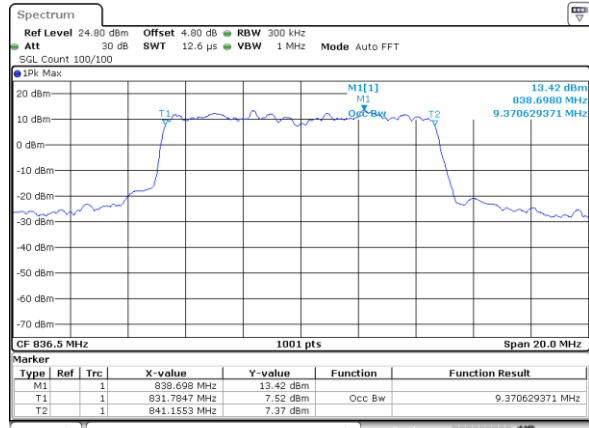
FR1 n5 / 10MHz / CP OFDM

QPSK



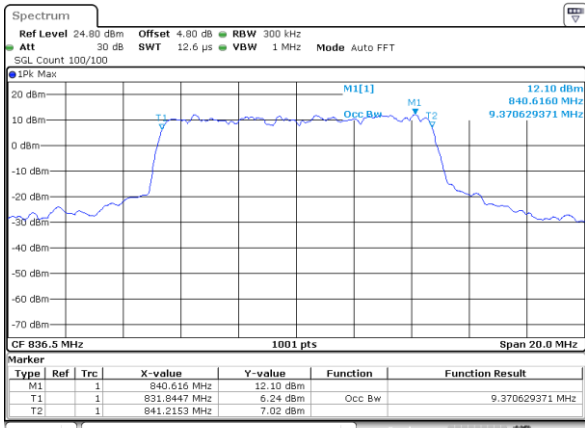
Date: 9,SEP,2022 03:44:02

16QAM



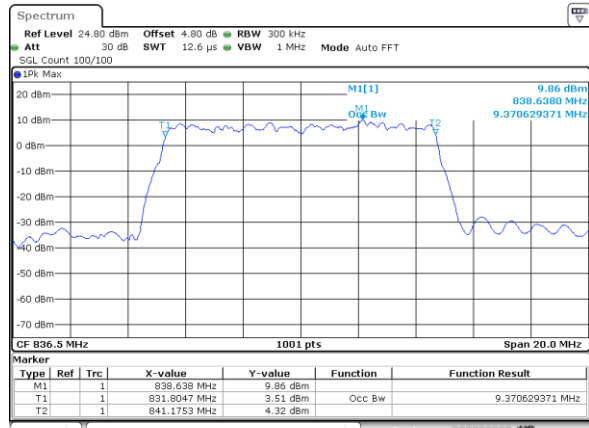
Date: 9,SEP,2022 03:43:40

64QAM



Date: 9,SEP,2022 03:43:21

256QAM

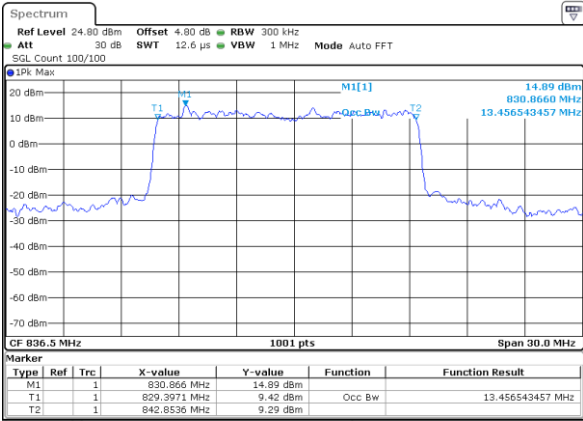


Date: 9,SEP,2022 03:42:59



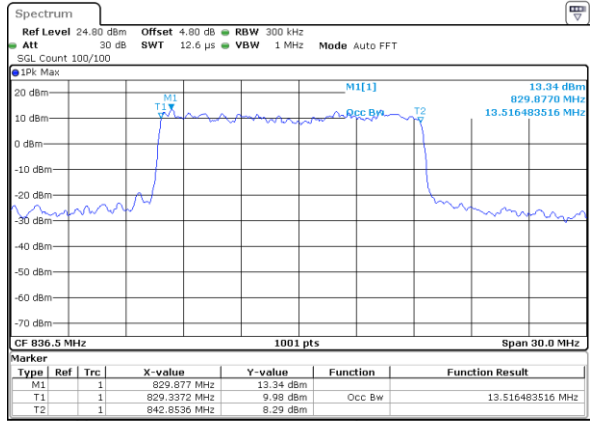
FR1 n5 / 15MHz / CP OFDM

QPSK



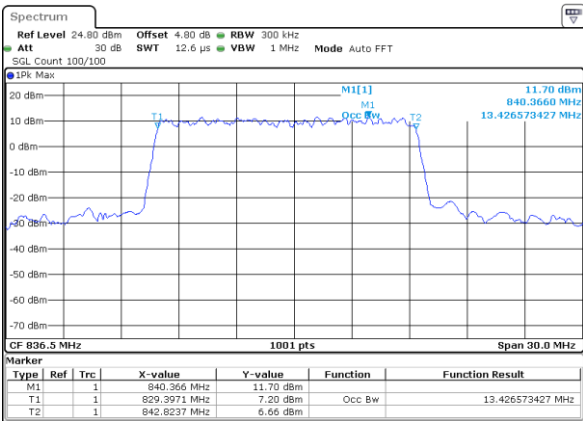
Date: 9,SEP,2022 03:34:52

16QAM



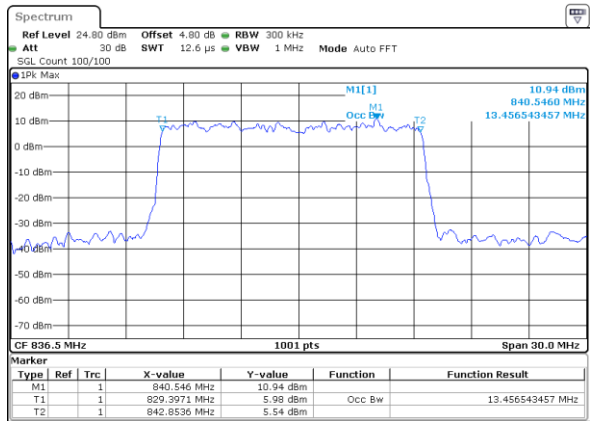
Date: 9,SEP,2022 03:39:21

64QAM



Date: 9,SEP,2022 03:39:41

256QAM

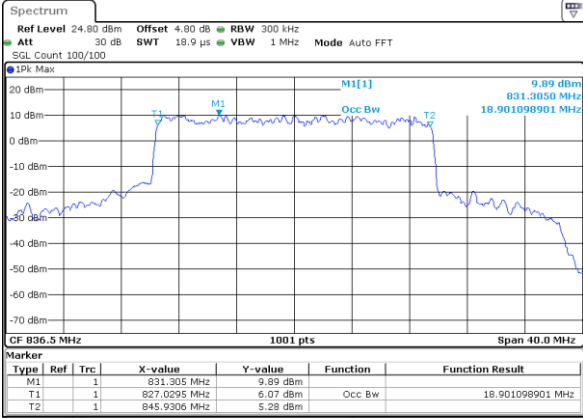


Date: 9,SEP,2022 03:40:26



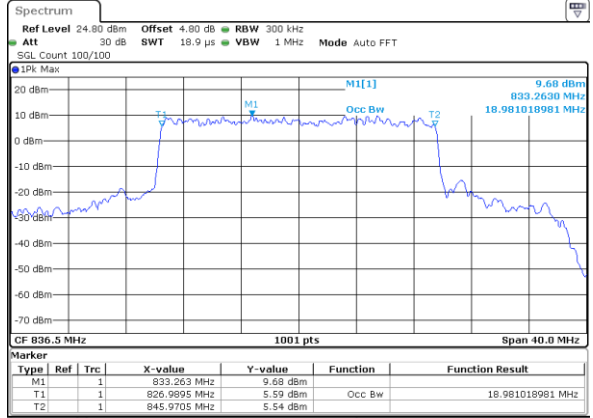
FR1 n5 / 20MHz / CP OFDM

QPSK



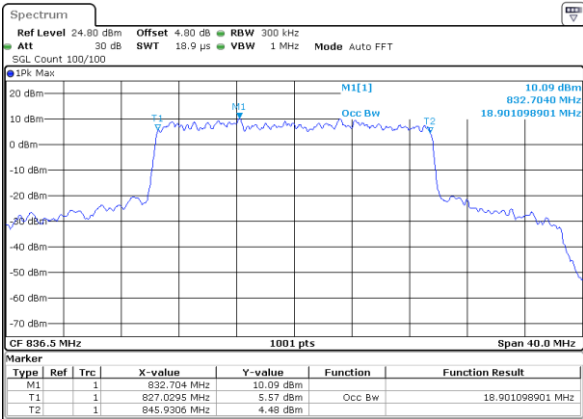
Date: 9,SEP,2022 03:21:10

16QAM



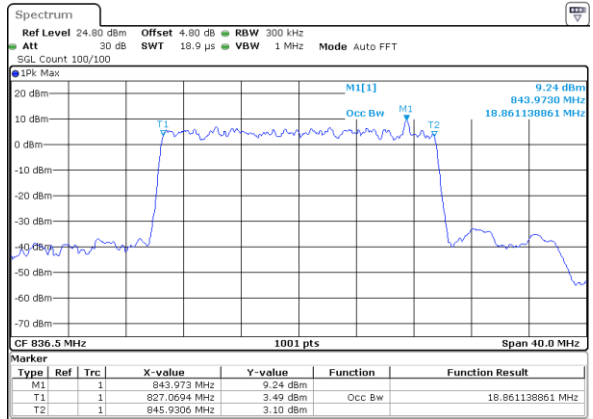
Date: 9,SEP,2022 03:21:39

64QAM



Date: 9,SEP,2022 03:22:11

256QAM



Date: 9,SEP,2022 03:23:21

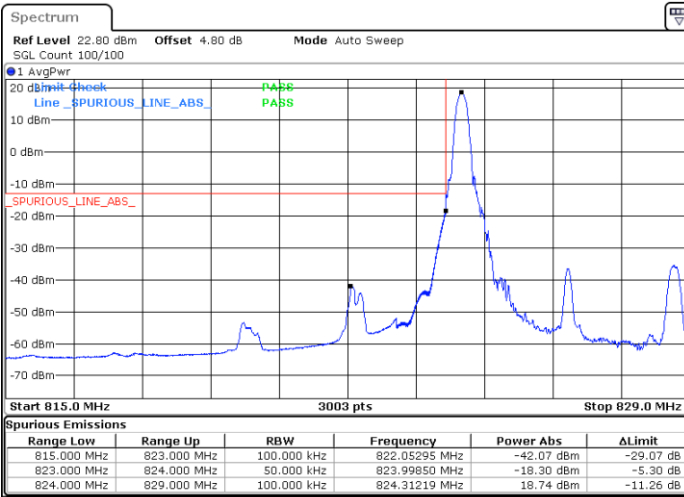


# Conducted Band Edge

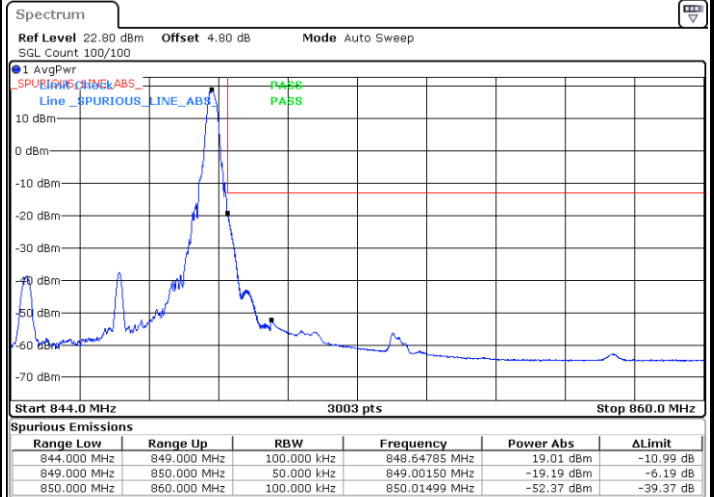
FR1 n5 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



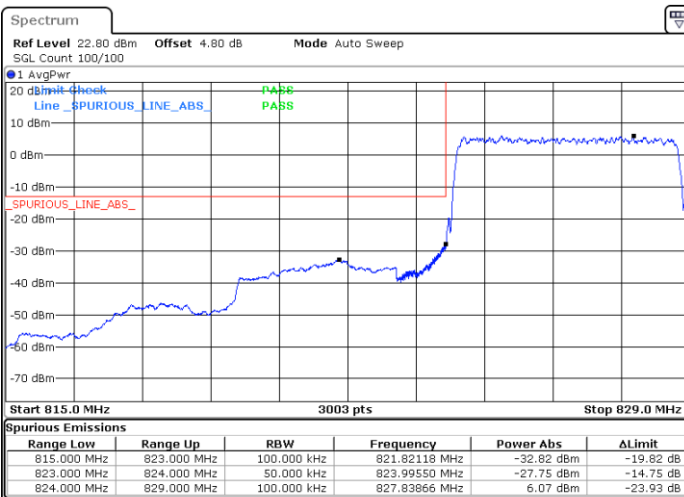
Date: 9.SEP.2022 04:06:23



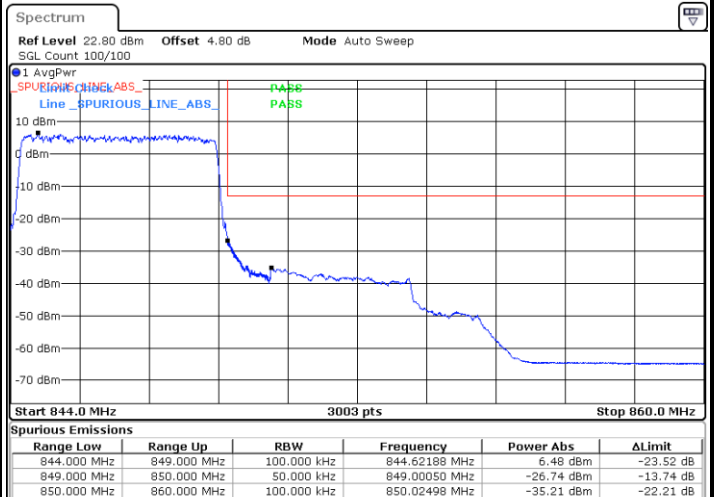
Date: 9.SEP.2022 04:12:37

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9.SEP.2022 04:08:47



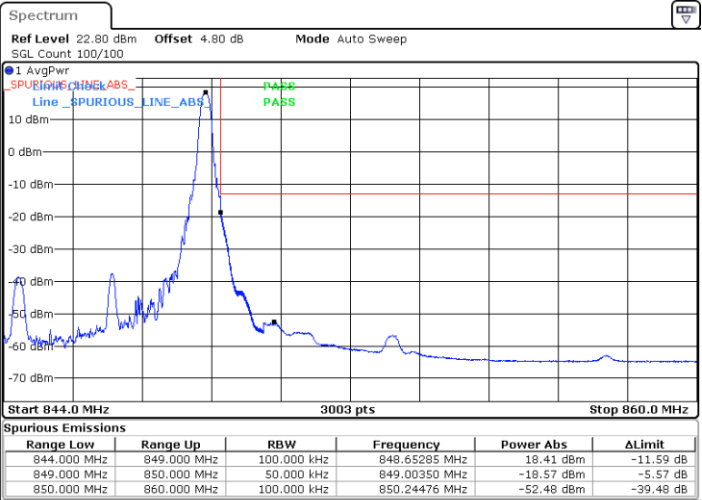
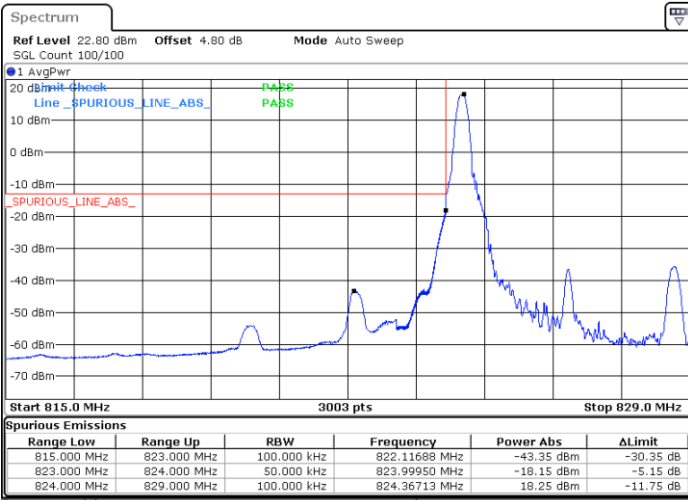
Date: 9.SEP.2022 04:09:58



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

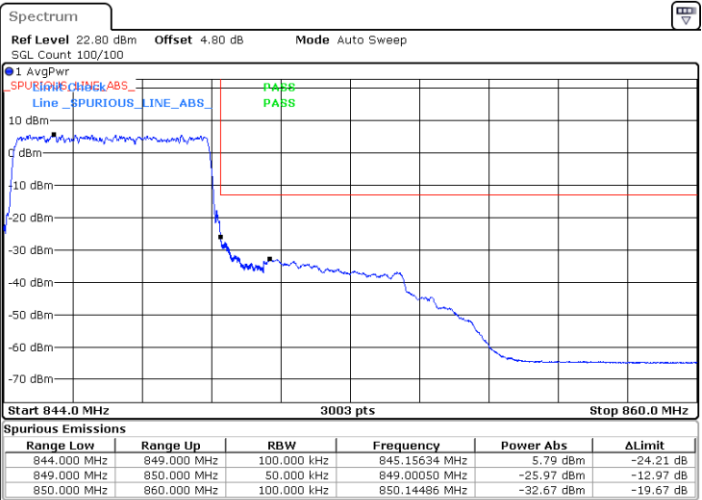
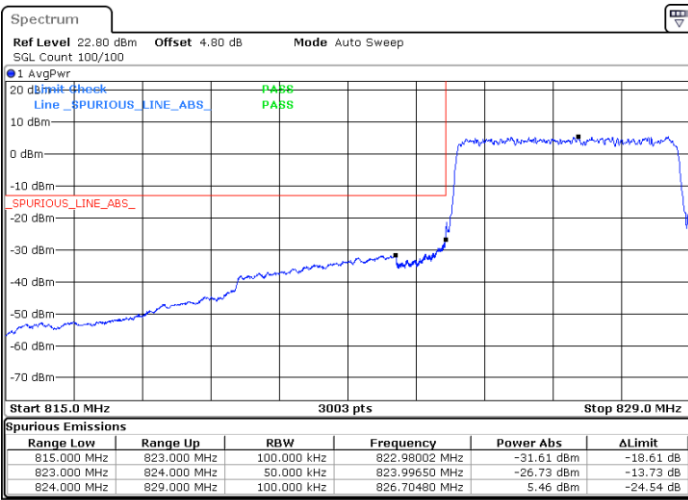


Date: 9.SEP.2022 04:07:15

Date: 9.SEP.2022 04:11:49

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9.SEP.2022 04:07:59

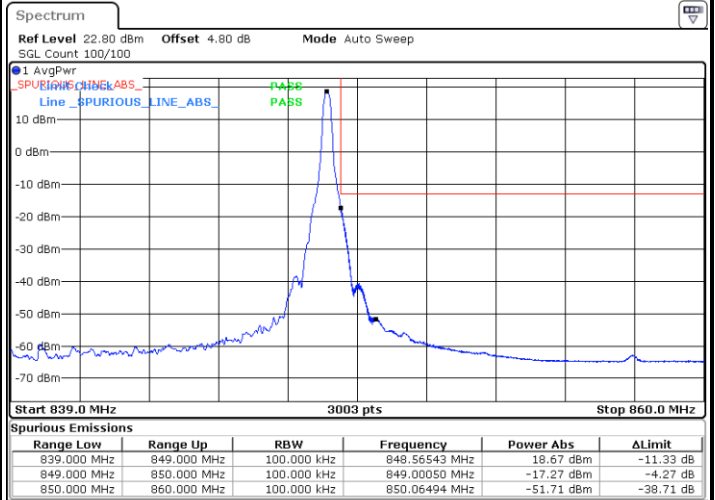
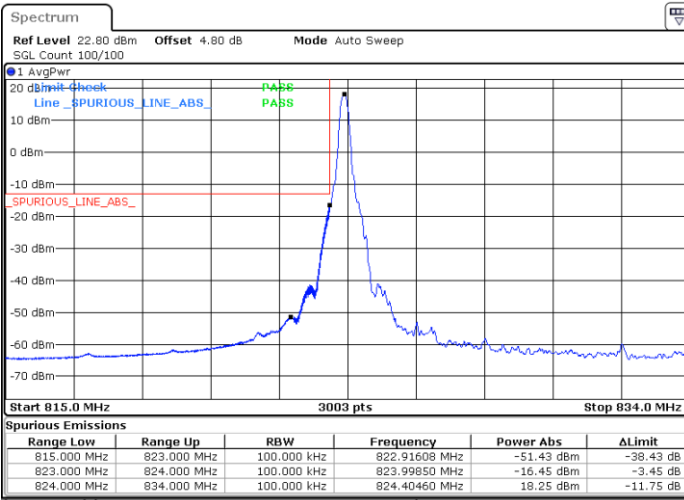
Date: 9.SEP.2022 04:10:55



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

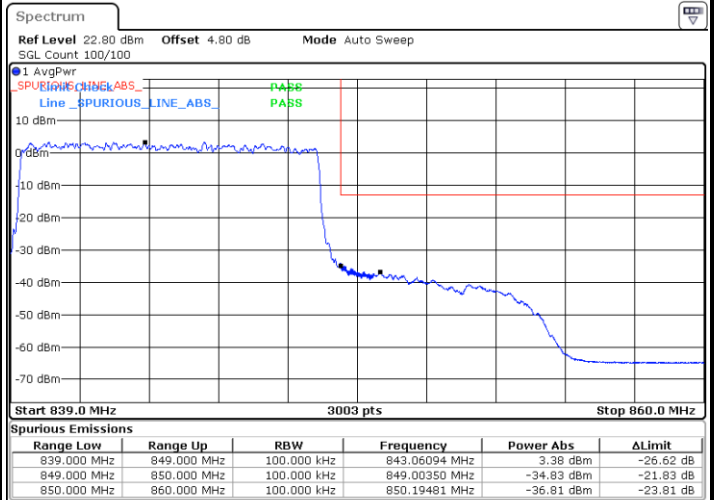
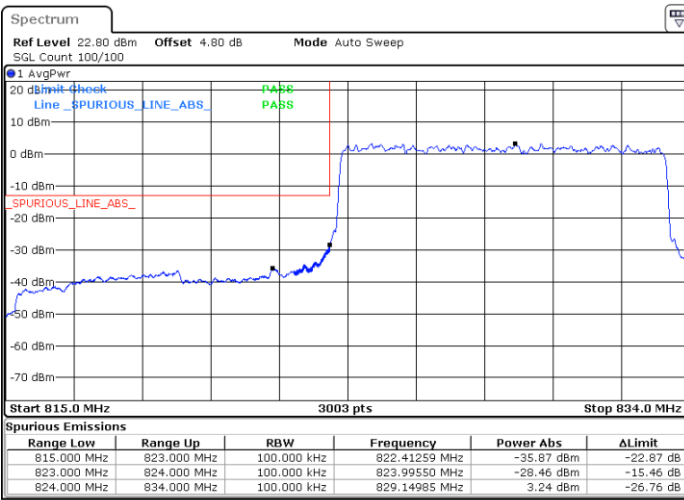


Date: 9.SEP.2022 03:50:50

Date: 9.SEP.2022 03:55:50

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9.SEP.2022 03:52:46

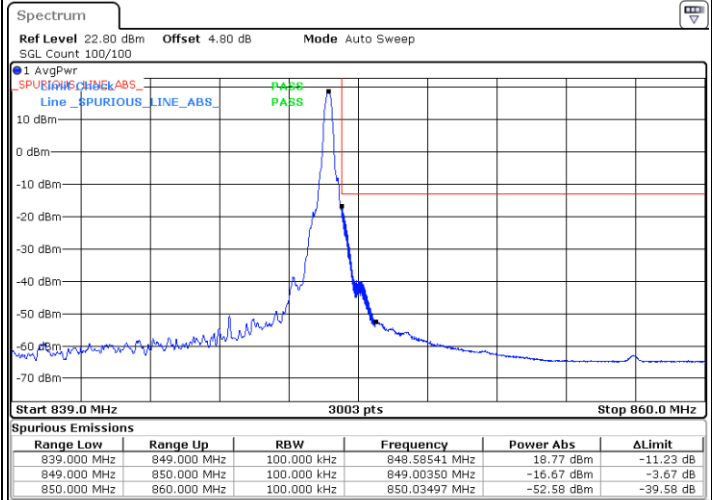
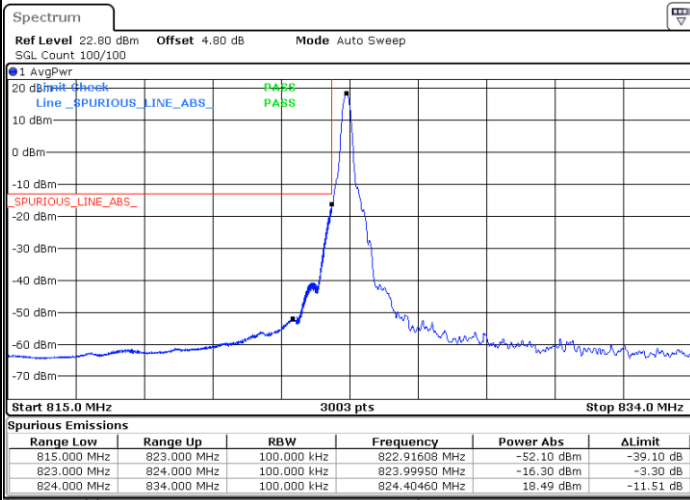
Date: 9.SEP.2022 03:53:38



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

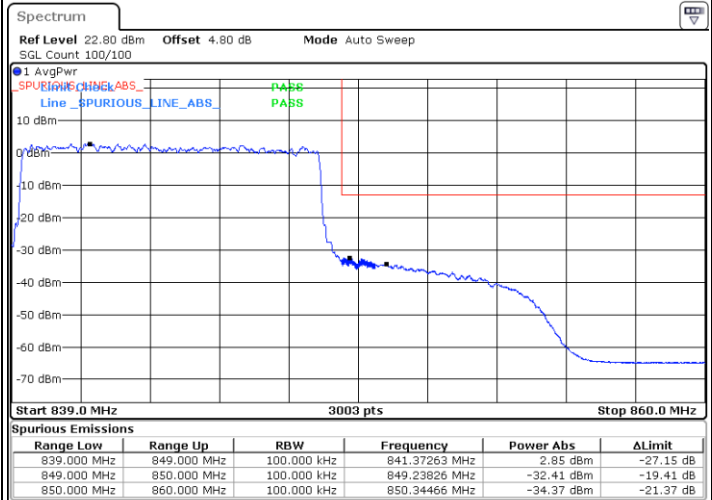
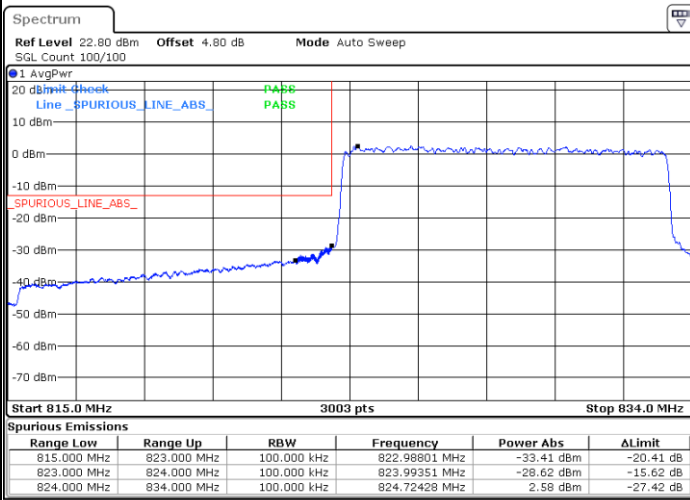
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

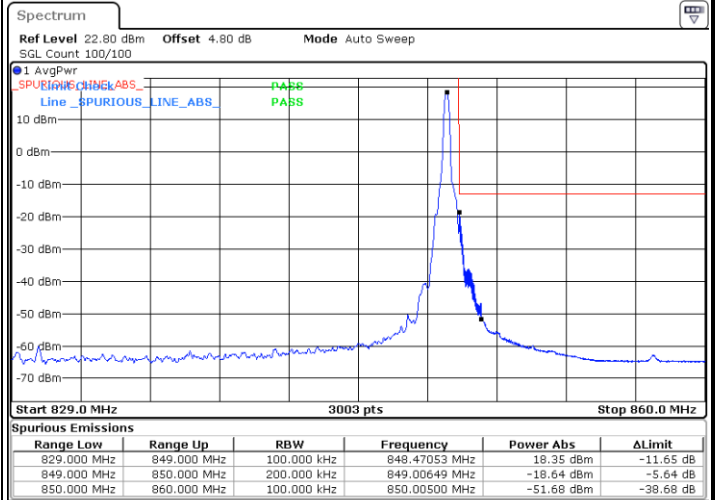
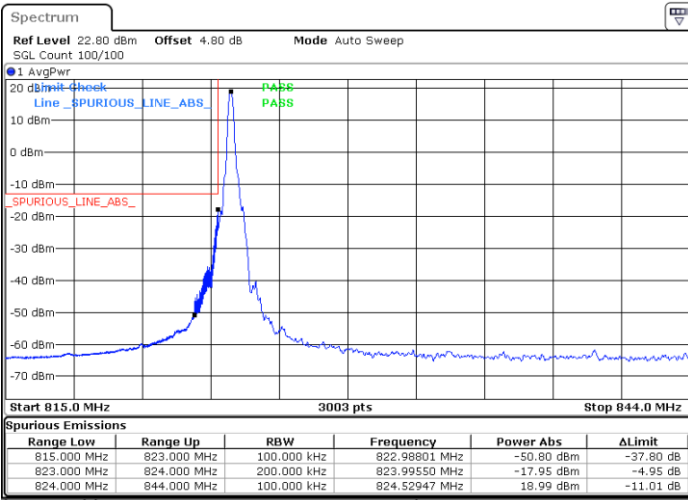




FR1 n5 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

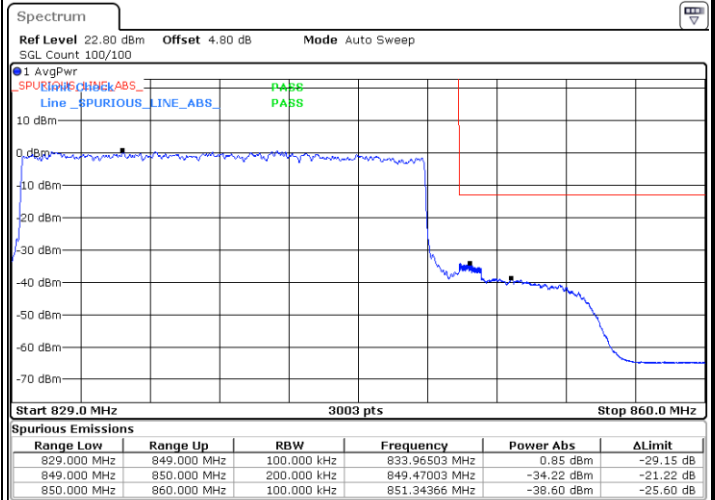
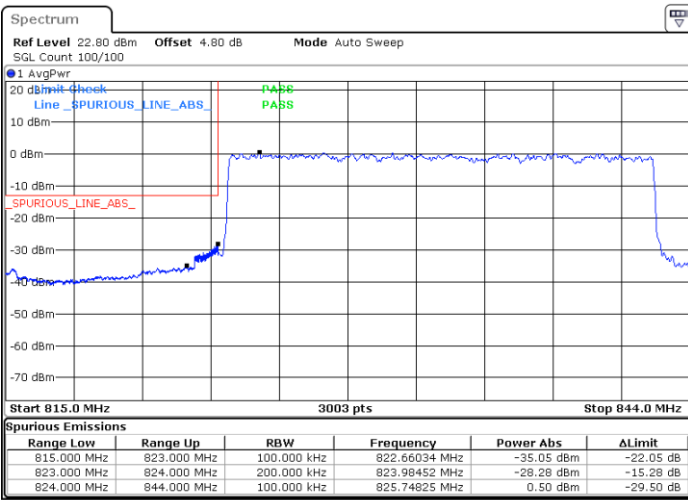


Date: 9.SEP.2022 03:15:04

Date: 9.SEP.2022 03:32:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9.SEP.2022 03:19:39

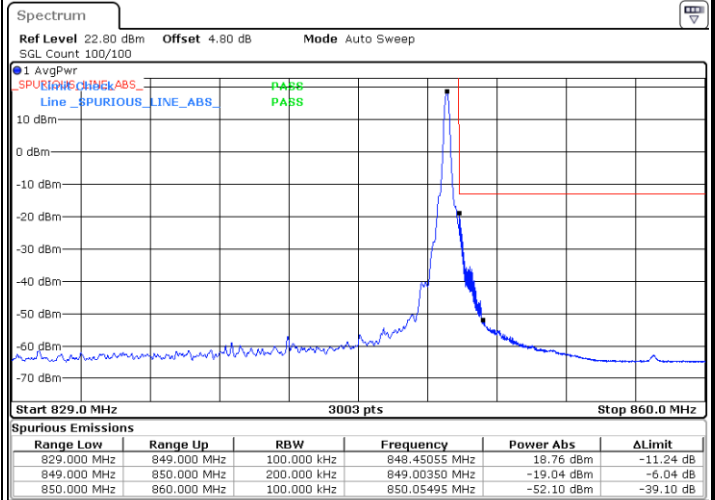
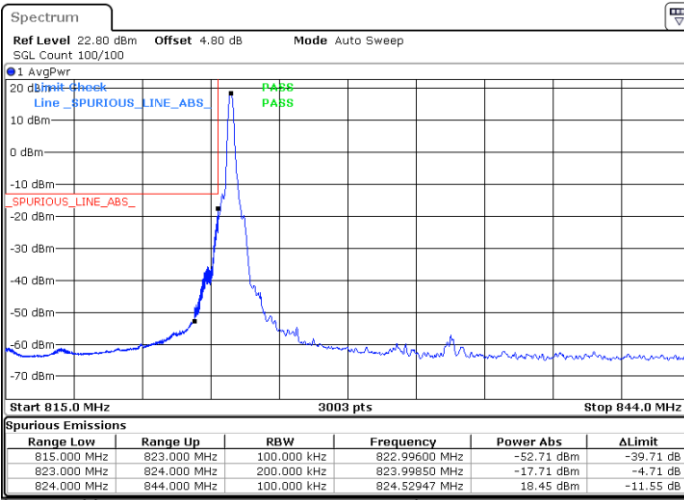
Date: 9.SEP.2022 03:27:52



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

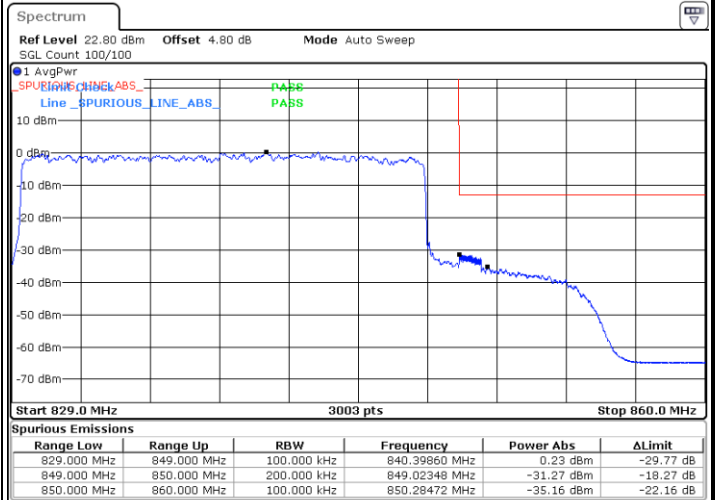
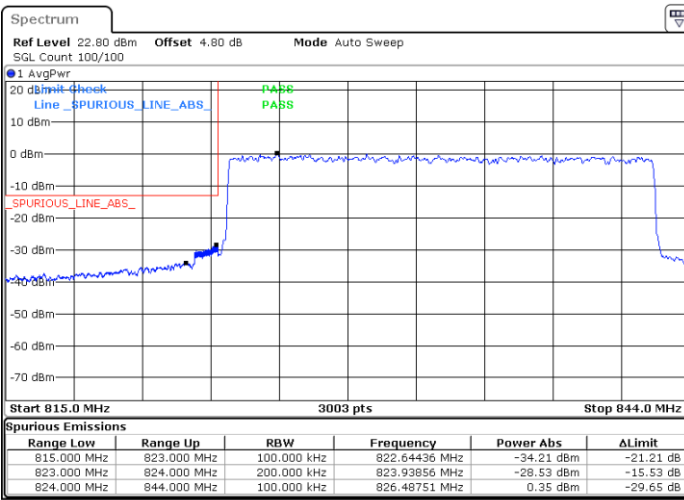


Date: 9.SEP.2022 03:16:48

Date: 9.SEP.2022 03:32:00

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 9.SEP.2022 03:17:26

Date: 9.SEP.2022 03:29:31

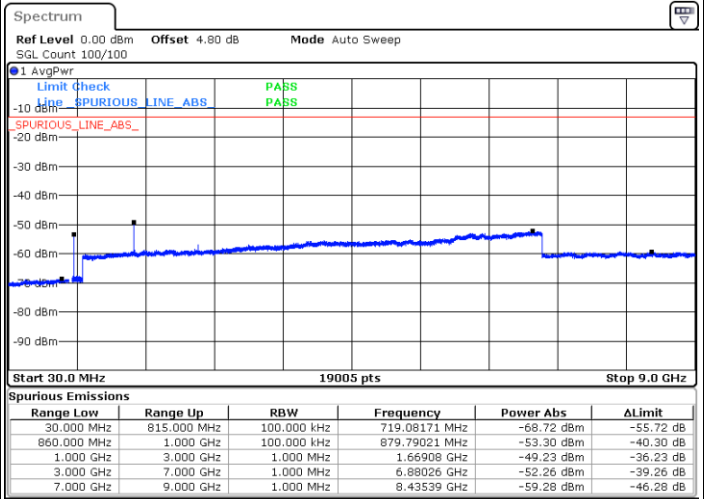
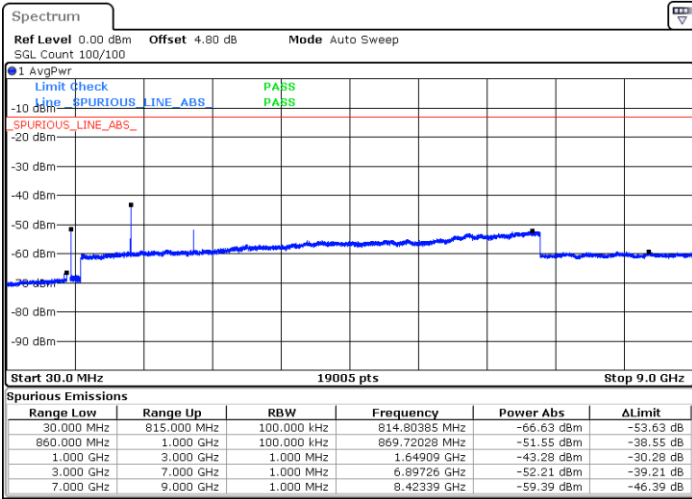


# Conducted Spurious Emission

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

Lowest Channel / 1RB1

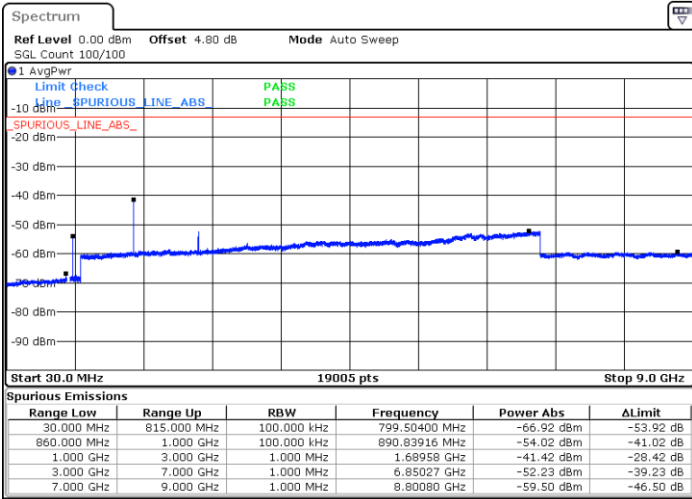
Middle Channel / 1RB1



Date: 9.SEP.2022 04:05:38

Date: 9.SEP.2022 04:01:32

Highest Channel / 1RB1



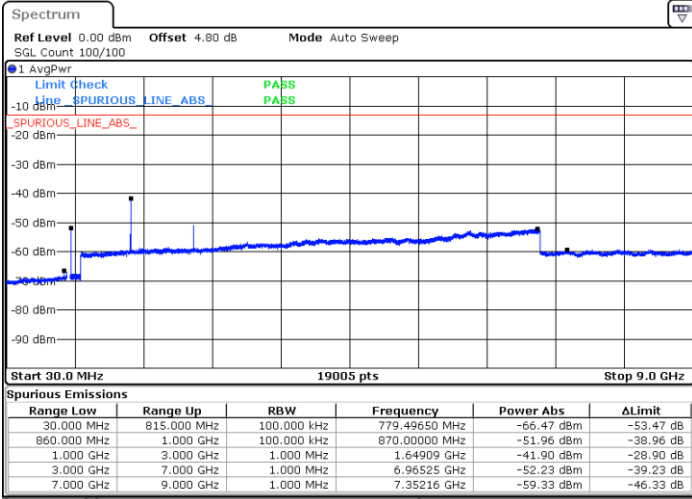
Date: 9.SEP.2022 04:13:18



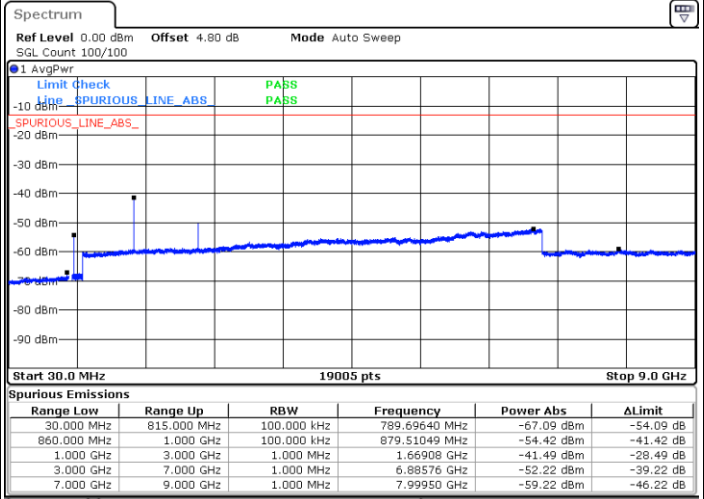
FR1 n5 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

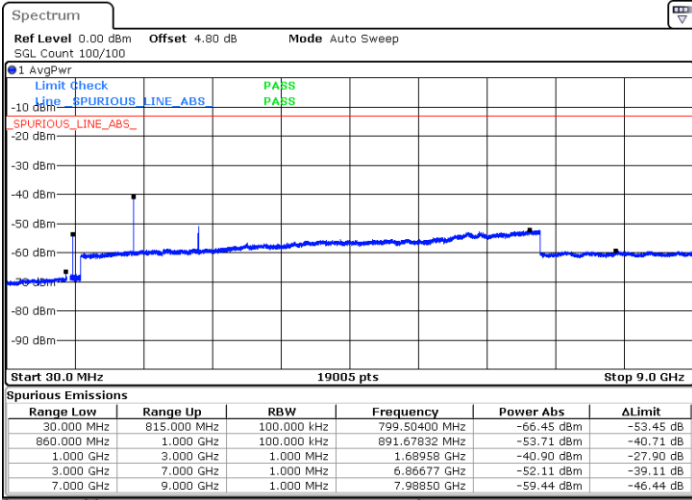


Date: 9.SEP.2022 04:04:56



Date: 9.SEP.2022 04:03:01

Highest Channel / 1RB1



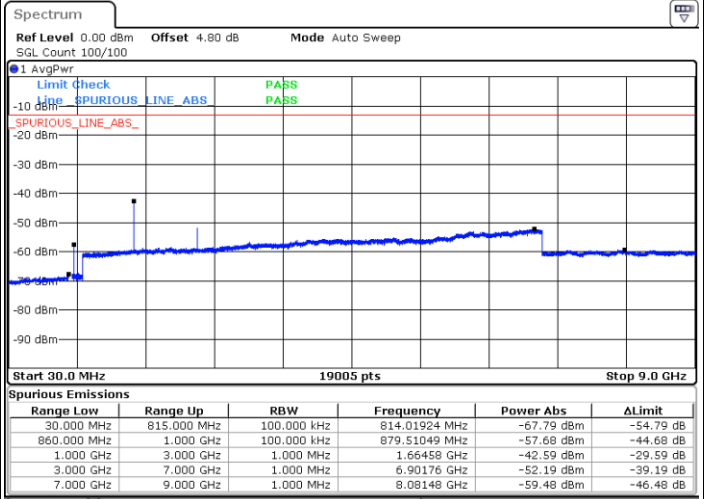
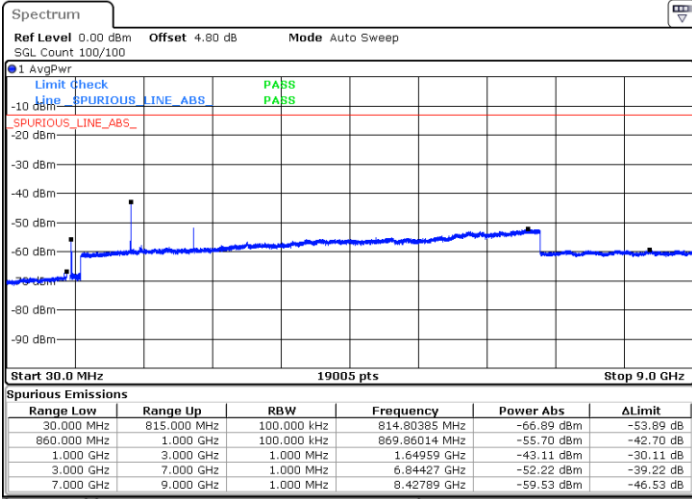
Date: 9.SEP.2022 04:14:10



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

Lowest Channel / 1RB1

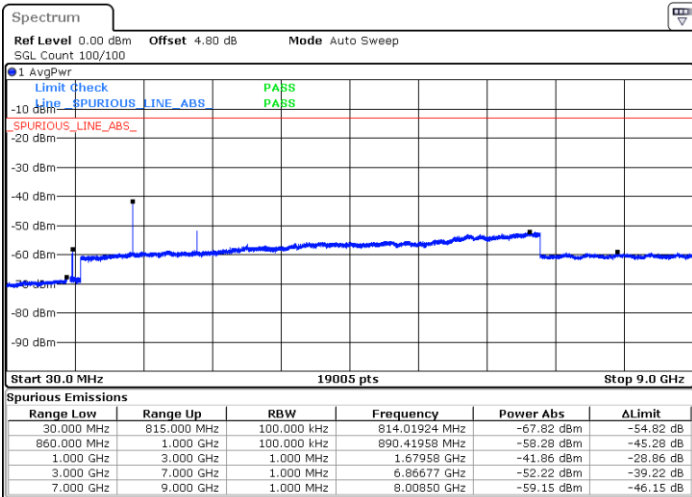
Middle Channel / 1RB1



Date: 9.SEP.2022 03:50:10

Date: 9.SEP.2022 03:46:34

Highest Channel / 1RB1



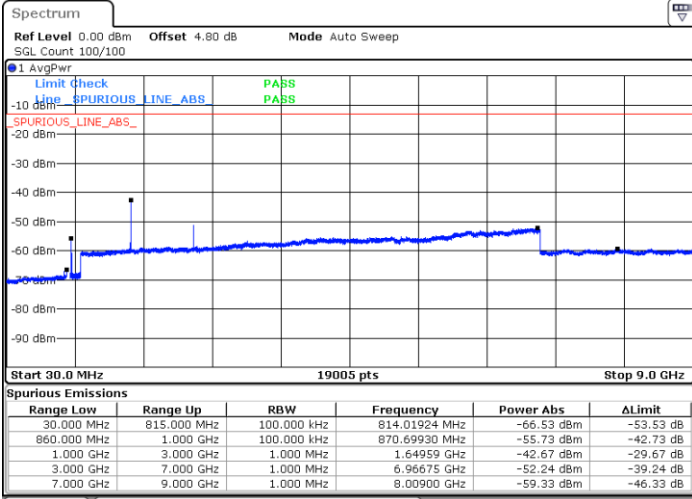
Date: 9.SEP.2022 03:56:36



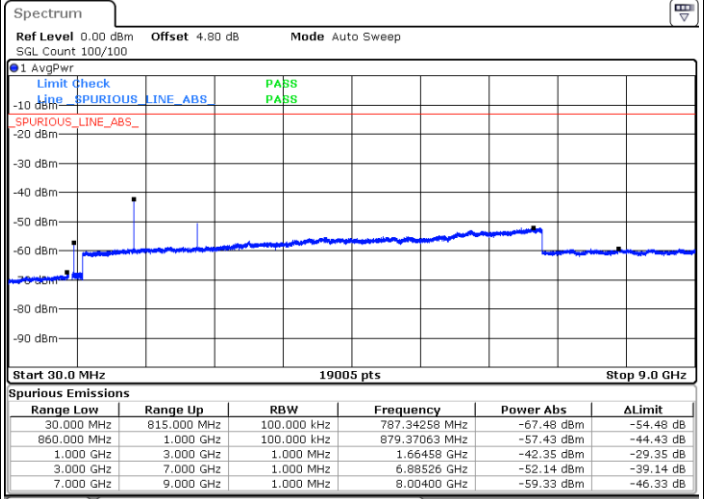
FR1 n5 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

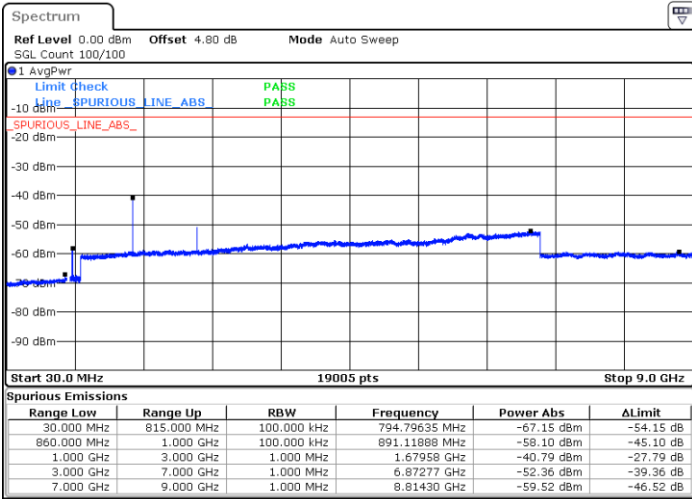


Date: 9.SEP.2022 03:49:36



Date: 9.SEP.2022 03:47:39

Highest Channel / 1RB1



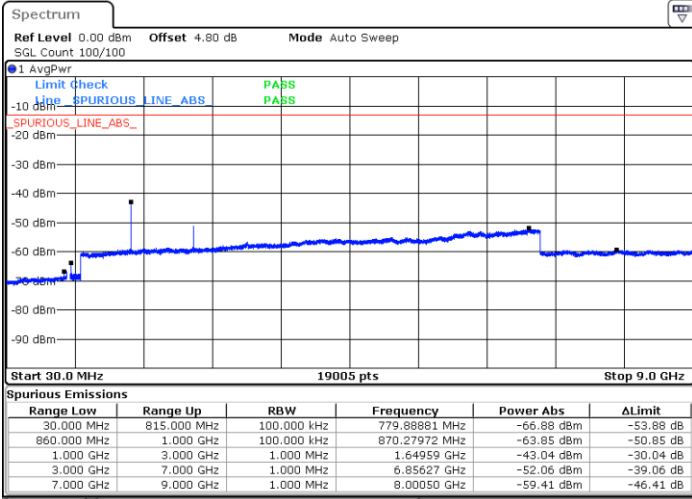
Date: 9.SEP.2022 03:57:11



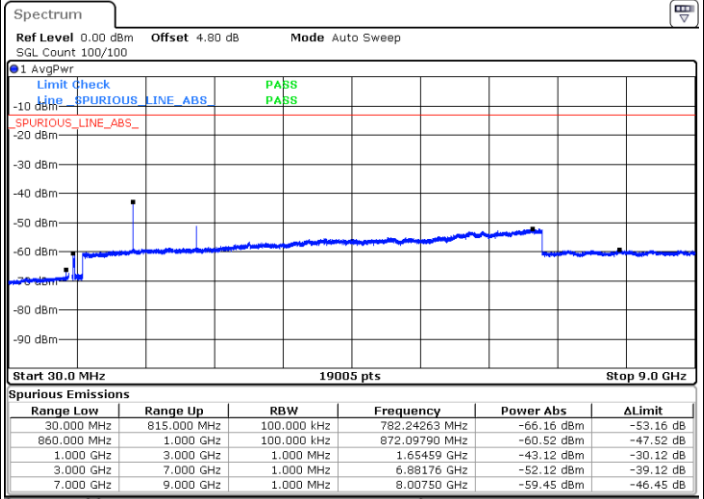
FR1 n5 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

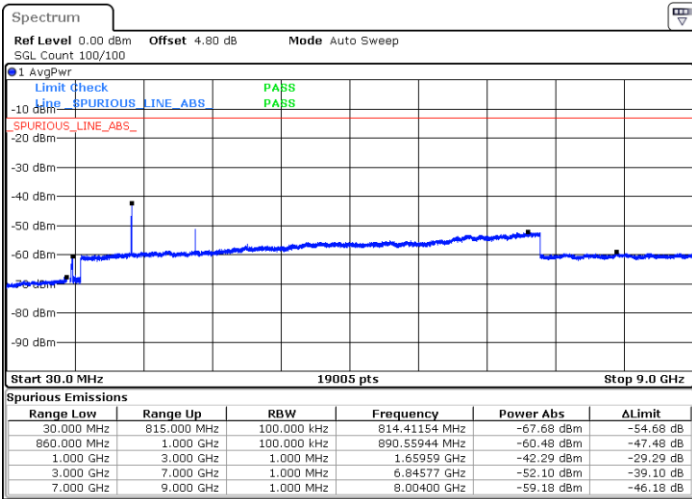


Date: 9.SEP.2022 03:13:28



Date: 9.SEP.2022 03:09:13

Highest Channel / 1RB1



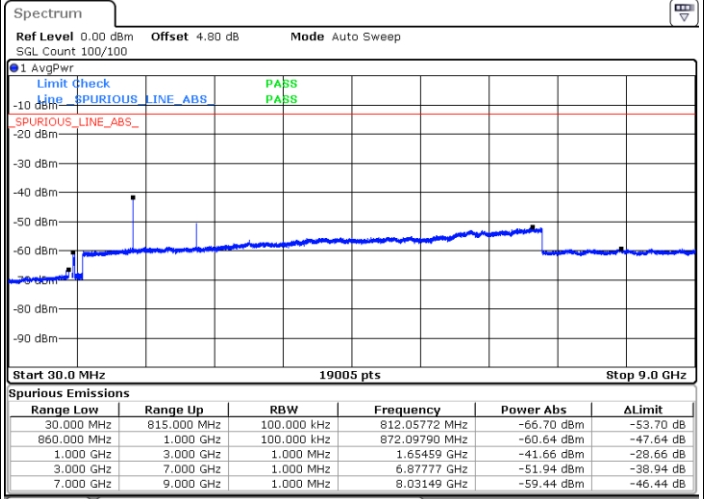
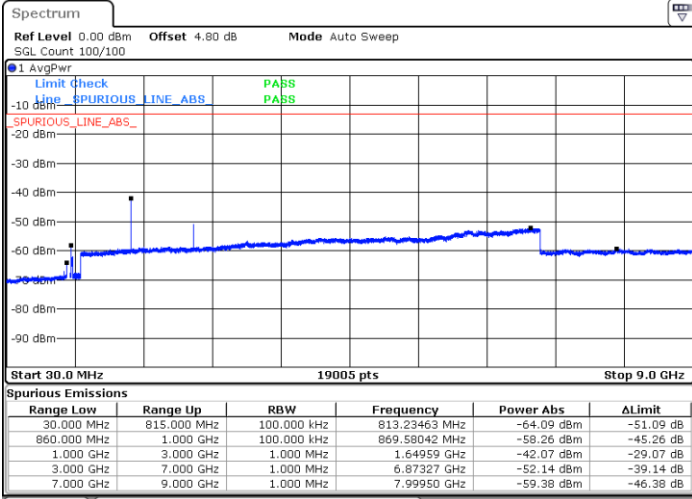
Date: 9.SEP.2022 03:26:34



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

Lowest Channel / 1RB1

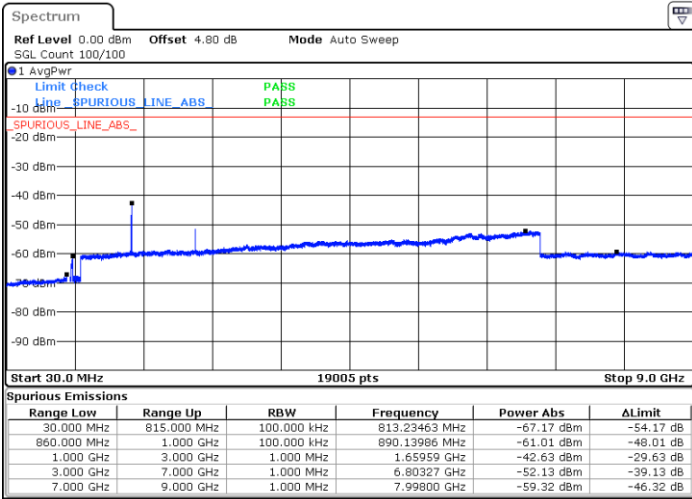
Middle Channel / 1RB1



Date: 9.SEP.2022 03:12:32

Date: 9.SEP.2022 03:09:55

Highest Channel / 1RB1



Date: 9.SEP.2022 03:24:40



Frequency Stability

Test Conditions		FR1 n5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	2.5ppm
		Deviation (ppm)	Result
50	Normal Voltage	0.0022	PASS
40	Normal Voltage	0.0031	
30	Normal Voltage	0.0025	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0028	
0	Normal Voltage	0.0015	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0032	
-30	Normal Voltage	0.0025	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0028	
20	Battery End Point	0.0016	

Note:

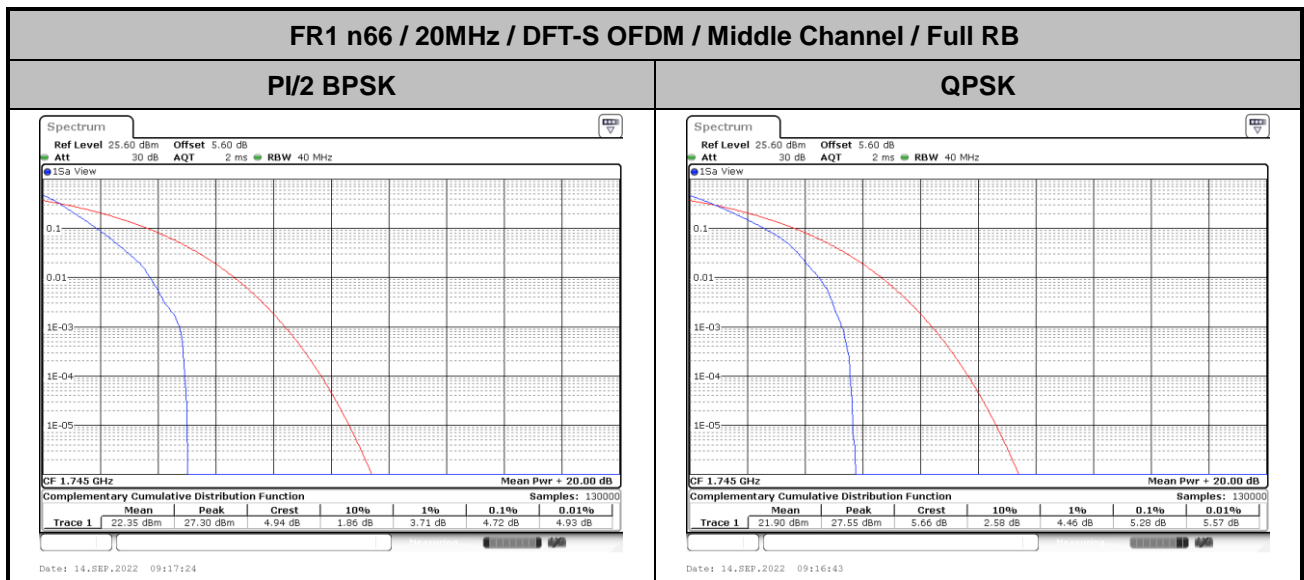
1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.



# FR1 n66

## Peak-to-Average Ratio

Mode	FR1 n66 / 40MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK			Limit: 13dB
RB Size	Full RB	Full RB			Result
Middle CH	4.72	5.28			PASS





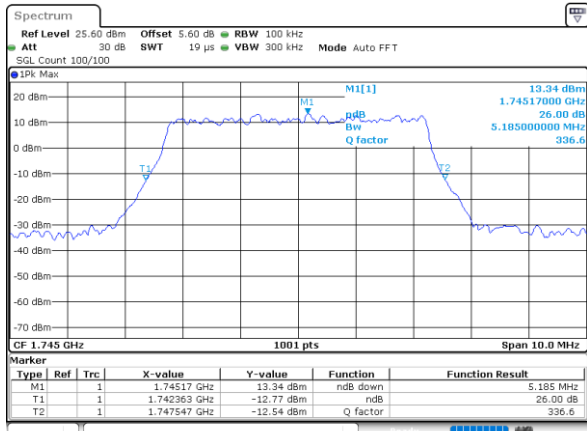
**26dB Bandwidth**

Mode	FR1 n66 : 26dBW (MHz) / CP OFDM									
BW	5MHz		10MHz		15MHz		20MHz		25M	
Mod.	QPSK		QPSK		QPSK		QPSK		QPSK	
Middle CH	5.19		10.29		15.08		20.02		24.78	
Mod.	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM
Middle CH	5.27	4.90	10.03	10.09	15.11	15.11	19.78	19.98	24.86	24.54
Mod.	256QAM		256QAM		256QAM		256QAM		256QAM	
Middle CH	5.22		10.17		14.99		20.06		24.78	
Mode	FR1 n66 : 26dBW (MHz) / CP OFDM									
BW	30M				40M					
Mod.	QPSK				QPSK					
Middle CH	29.65				40.92					
Mod.	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM
Middle CH	29.65	29.65	41.00	41.08						
Mod.	256QAM				256QAM					
Middle CH	29.49				40.92					



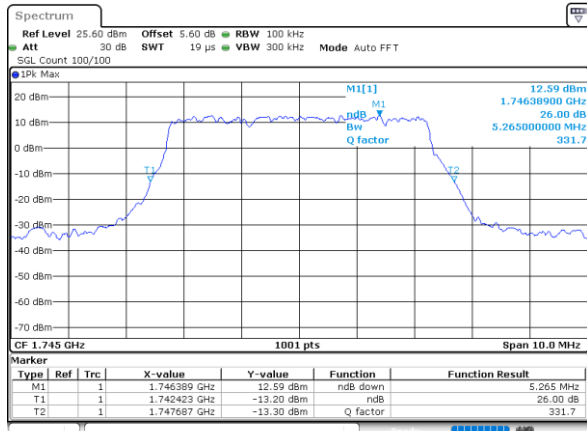
FR1 n66 / 5MHz / CP OFDM / Middle Channel / Full RB

QPSK



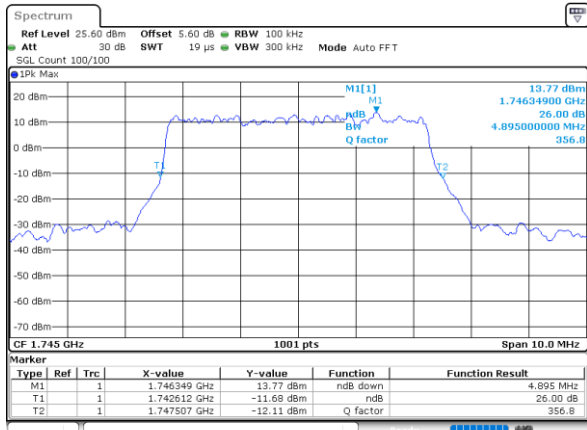
Date: 14\_SEP.2022 09:56:55

16QAM



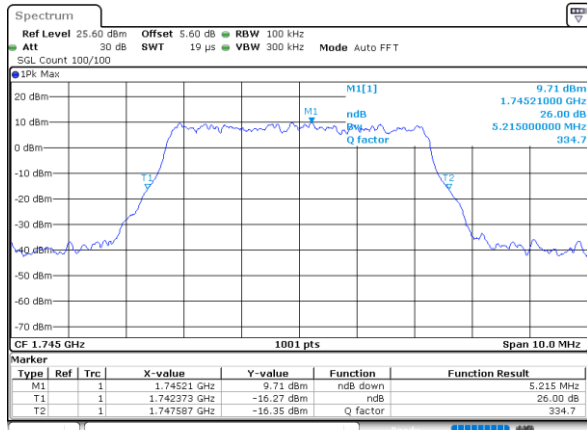
Date: 14\_SEP.2022 09:57:15

64QAM



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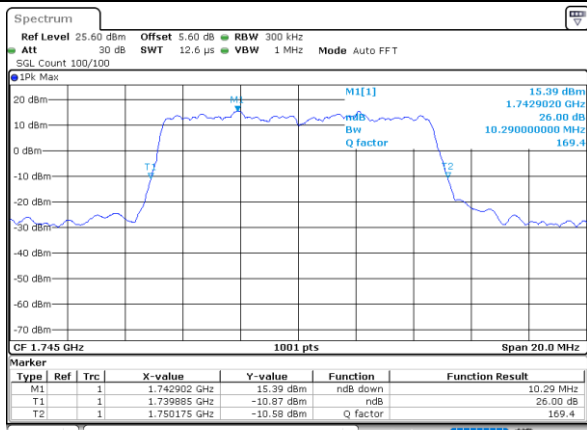
256QAM



Date: 14\_SEP.2022 09:58:18

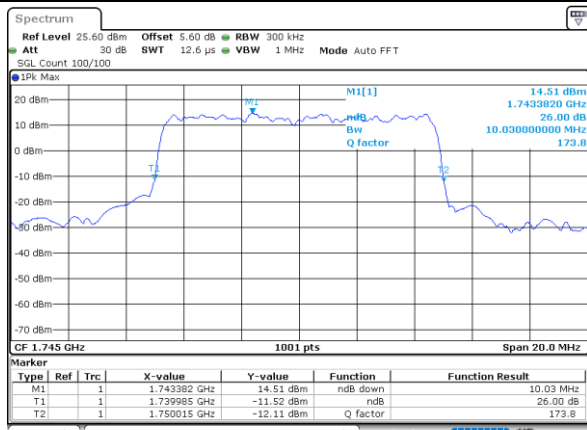
FR1 n66 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



Date: 14\_SEP.2022 09:56:03

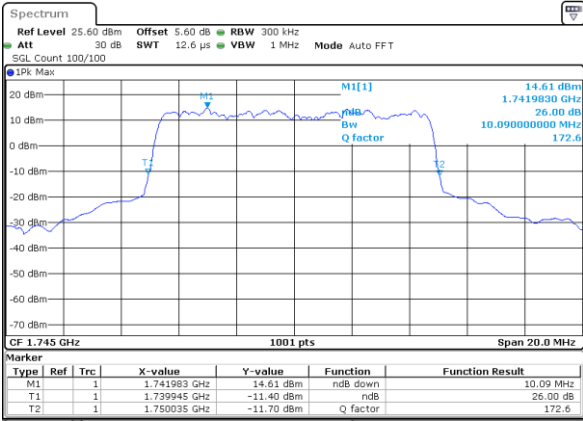
16QAM



Date: 14\_SEP.2022 09:55:38

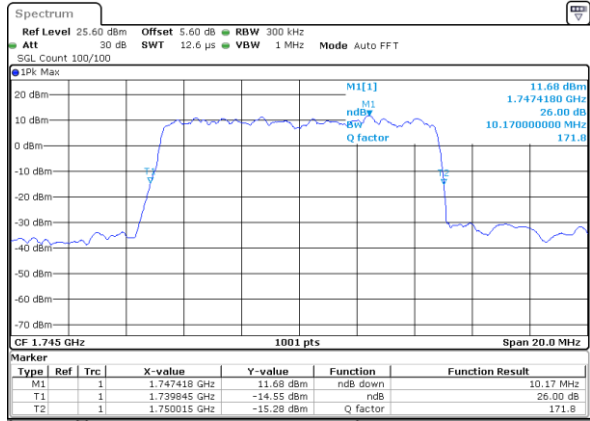


64QAM



Date: 14\_SEP.2022 09:55:16

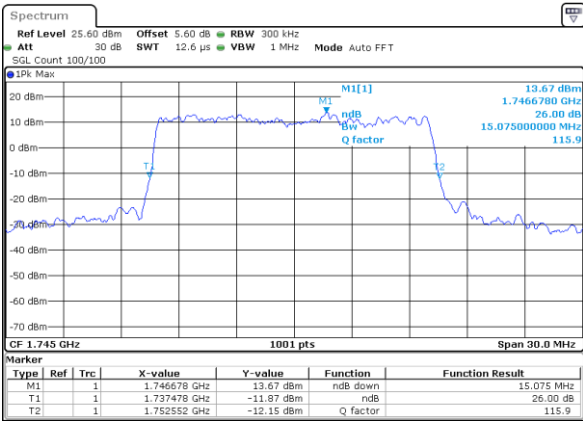
256QAM



Date: 14\_SEP.2022 09:54:59

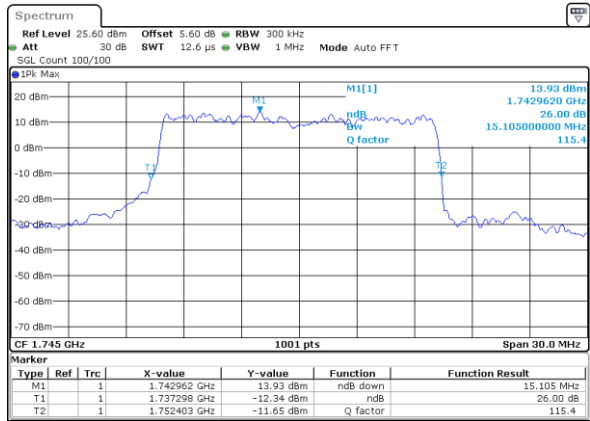
FR1 n66 /15MHz / CP OFDM / Middle Channel / Full RB

QPSK



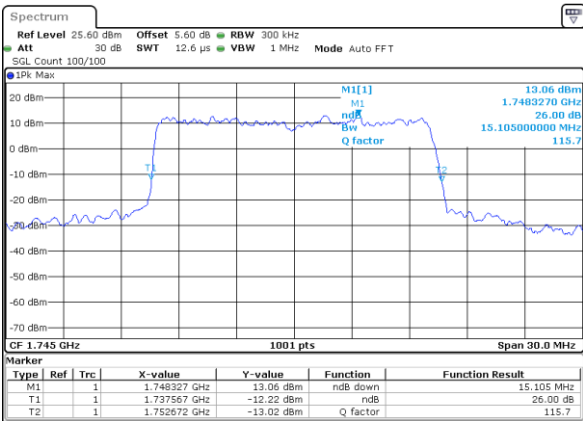
Date: 14\_SEP.2022 09:52:22

16QAM



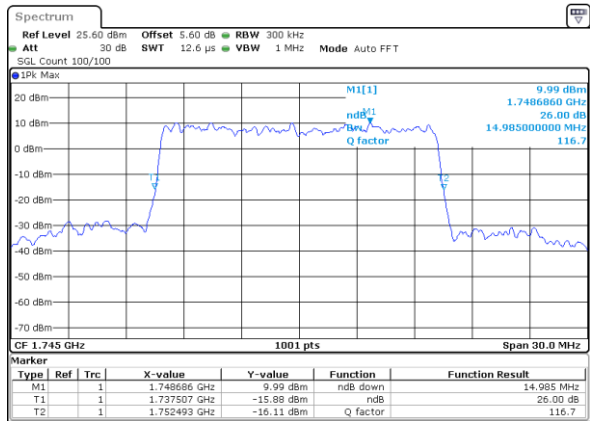
Date: 14\_SEP.2022 09:52:45

64QAM



Date: 14\_SEP.2022 09:53:38

256QAM

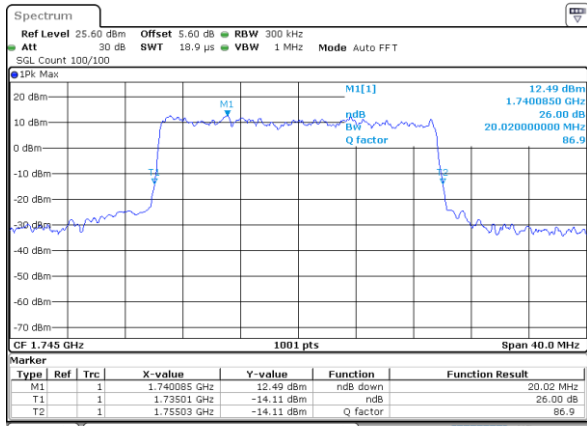


Date: 14\_SEP.2022 09:54:18

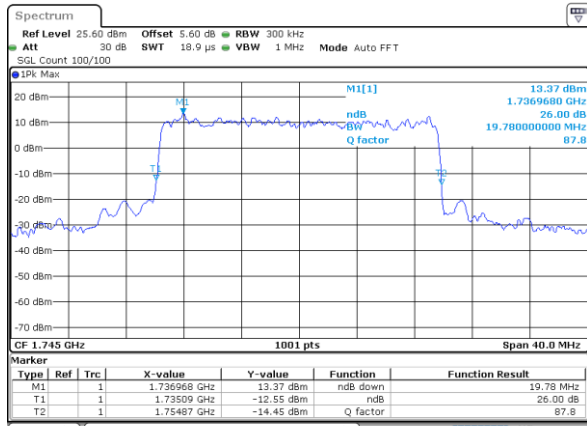


FR1 n66 / 20MHz / CP OFDM / Middle Channel / Full RB

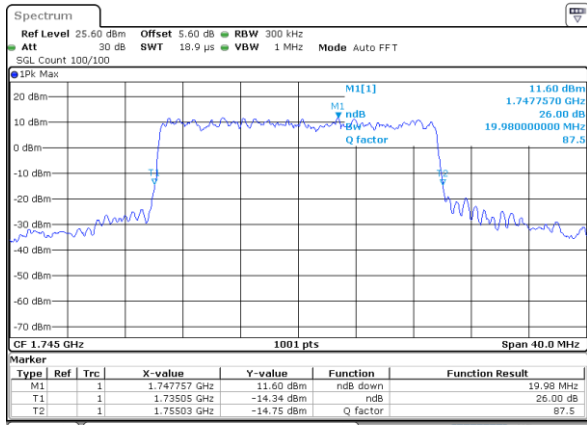
QPSK



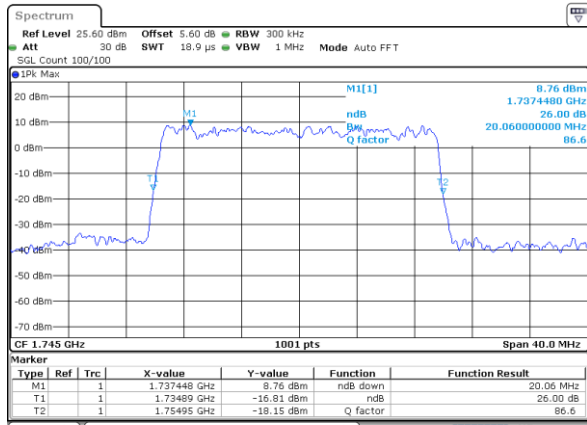
16QAM



64QAM

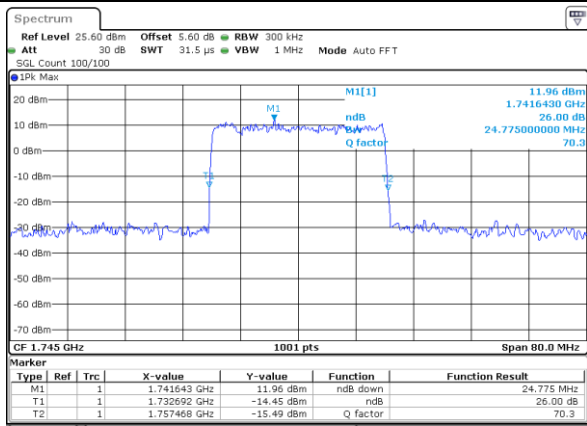


256QAM

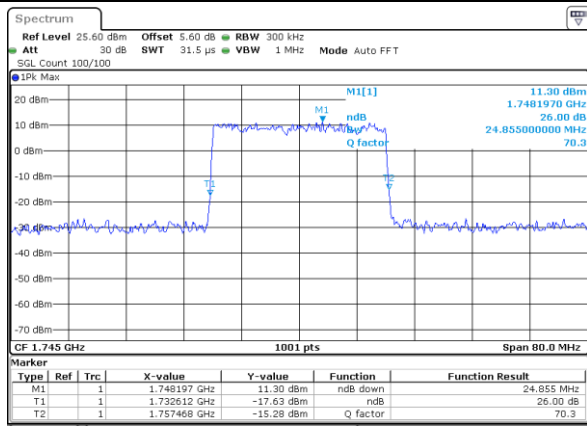


FR1 n66 / 25MHz / CP OFDM / Middle Channel / Full RB

QPSK

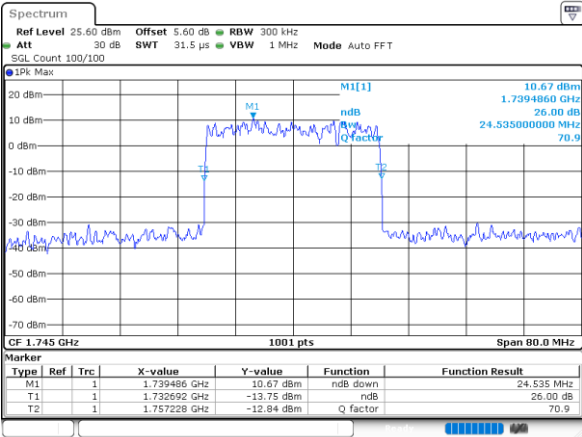


16QAM



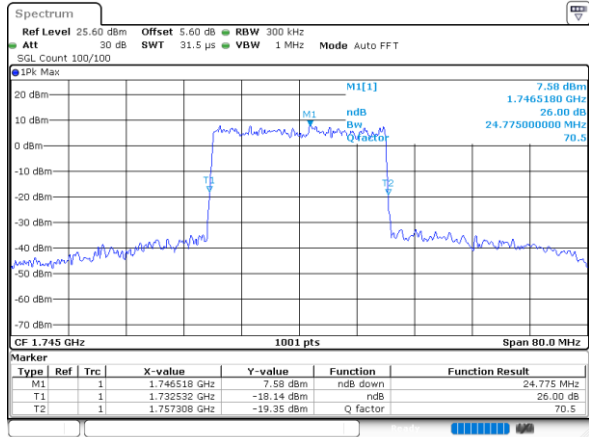


64QAM



Date: 14\_SEP.2022 09:36:57

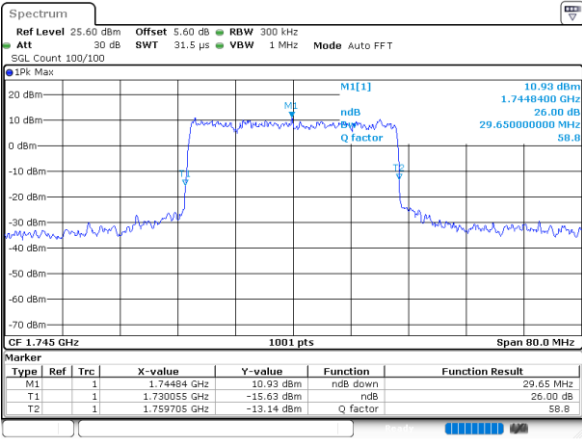
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Date: 14\_SEP.2022 09:37:22

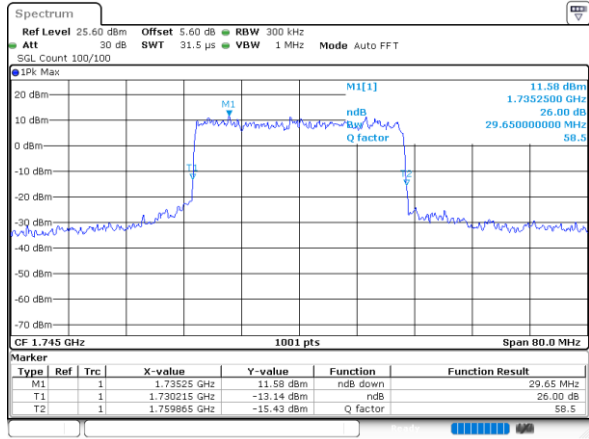
FR1 n66 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



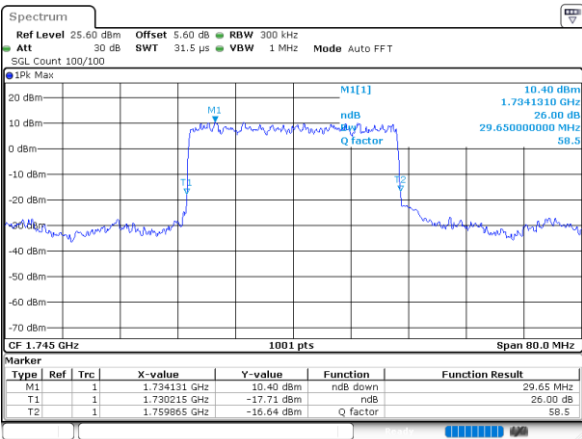
Date: 14\_SEP.2022 09:30:46

16QAM



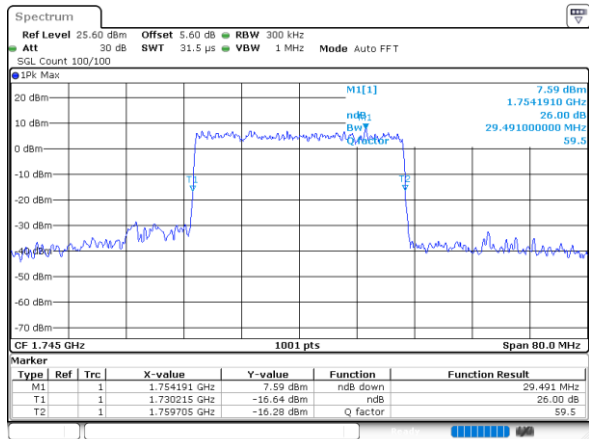
Date: 14\_SEP.2022 09:31:03

64QAM



Date: 14\_SEP.2022 09:31:21

256QAM

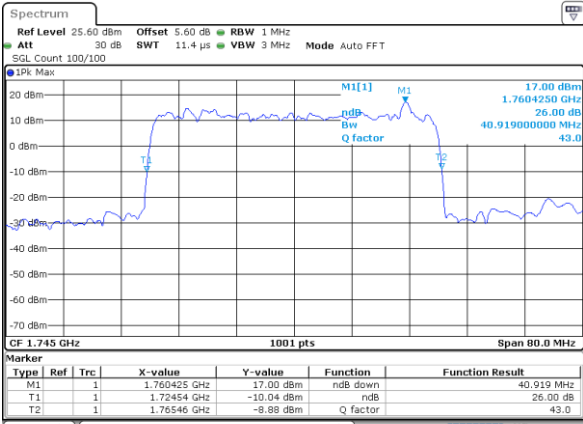


Date: 14\_SEP.2022 09:32:01



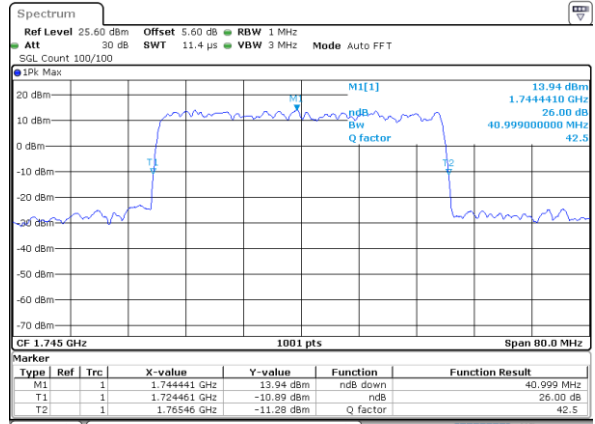
FR1 n66 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK



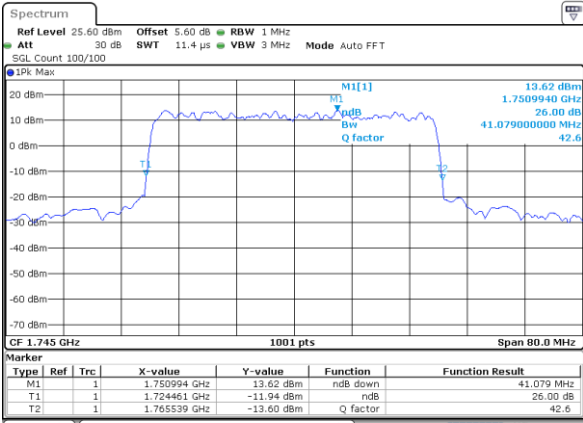
Date: 14.SEP.2022 09:15:11

16QAM



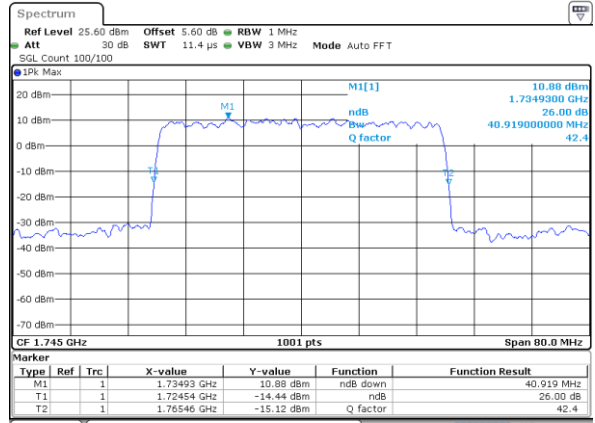
Date: 14.SEP.2022 09:15:37

64QAM



Date: 14.SEP.2022 09:15:53

256QAM



Date: 14.SEP.2022 09:16:10



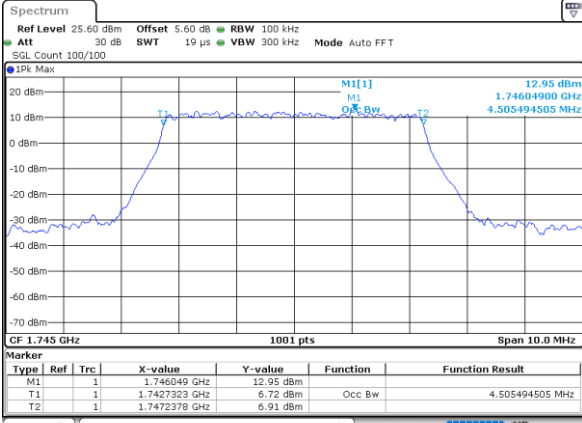
## Occupied Bandwidth

Mode	FR1 n66 : OBW (MHz) / CP OFDM									
BW	5MHz		10MHz		15MHz		20MHz		25M	
Mod.	QPSK		QPSK		QPSK		QPSK		QPSK	
Middle CH	4.51		9.35		14.24		18.94		23.74	
Mod.	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM
Middle CH	4.47	4.48	9.37	9.43	14.09	14.15	19.06	18.98	23.82	23.82
Mod.	256QAM		256QAM		256QAM		256QAM		256QAM	
Middle CH	4.52		9.37		14.09		18.94		23.82	
Mode	FR1 n66 : OBW (MHz) / CP OFDM									
BW	30M				40M					
Mod.	QPSK				QPSK					
Middle CH	28.53				38.68					
Mod.	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM	16QAM	64QAM
Middle CH	28.61	28.53	38.76	38.68						
Mod.	256QAM				256QAM					
Middle CH	28.69				38.60					



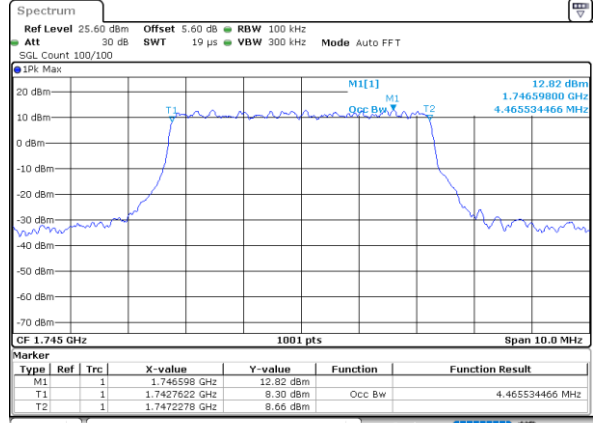
FR1 n66/ 5MHz / CP OFDM / Middle Channel / Full RB

QPSK



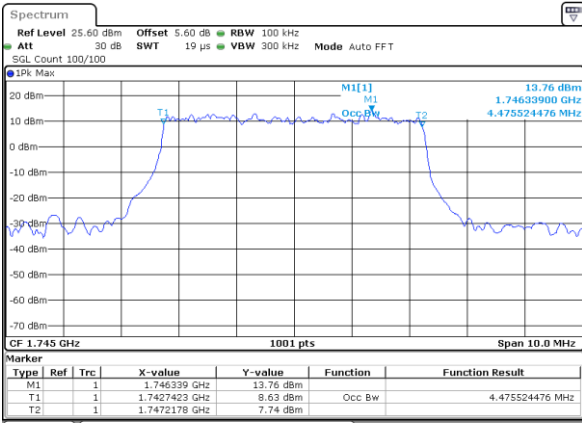
Date: 14\_SEP.2022 09:56:46

16QAM



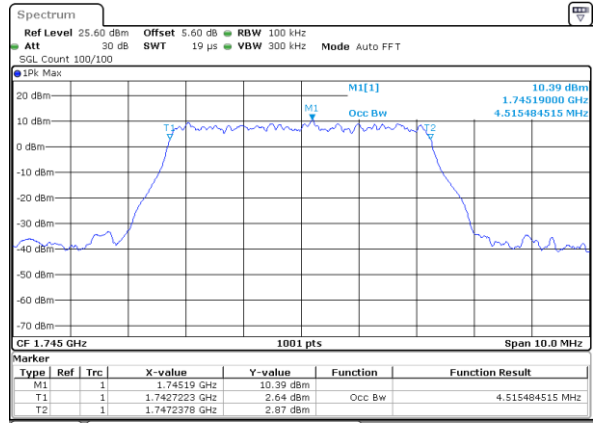
Date: 14\_SEP.2022 09:57:08

64QAM



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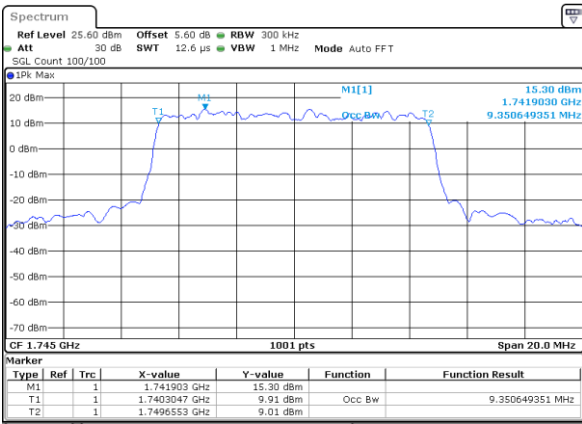
256QAM



Date: 14\_SEP.2022 09:58:12

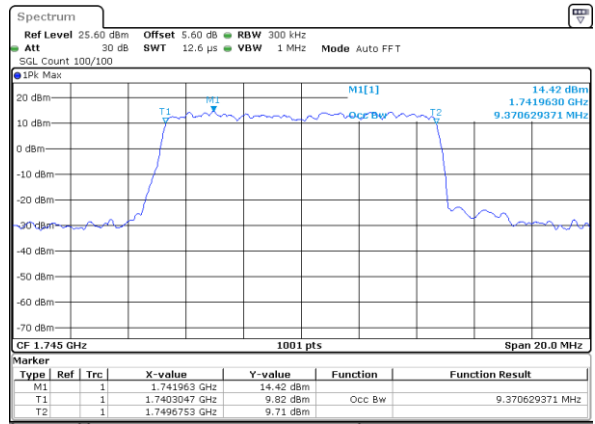
FR1 n66 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



Date: 14\_SEP.2022 09:55:57

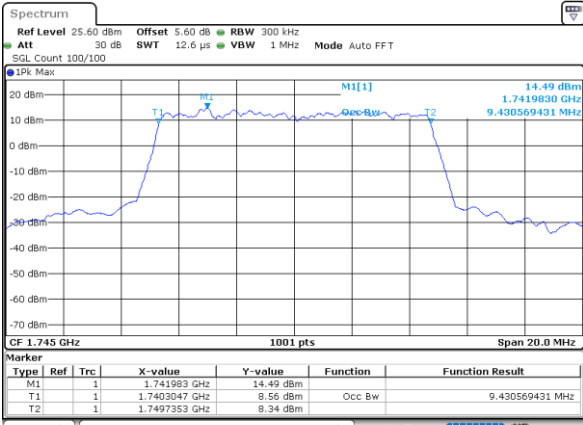
16QAM



Date: 14\_SEP.2022 09:55:30

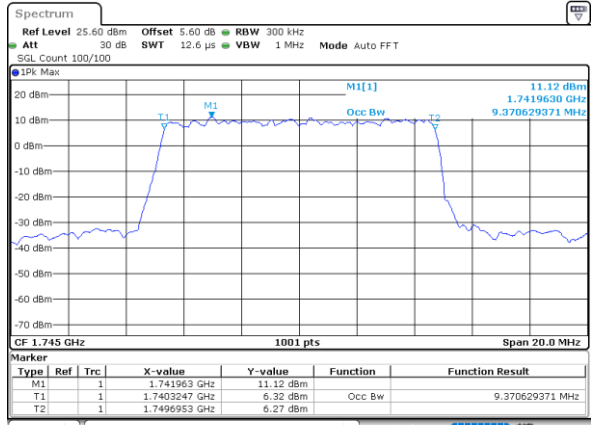


64QAM



Date: 14.SEP.2022 09:55:10

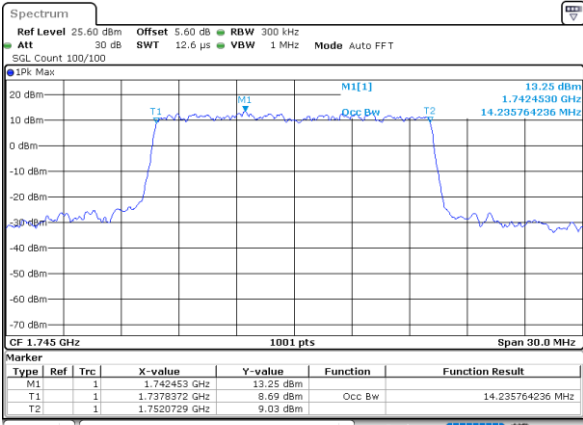
256QAM



Date: 14.SEP.2022 09:54:53

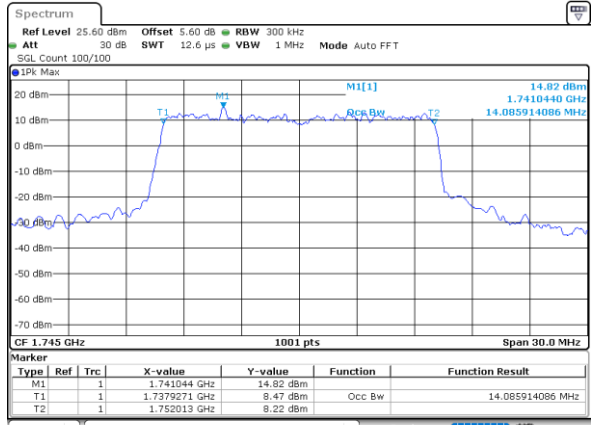
FR1 n66 /15MHz / CP OFDM / Middle Channel / Full RB

QPSK



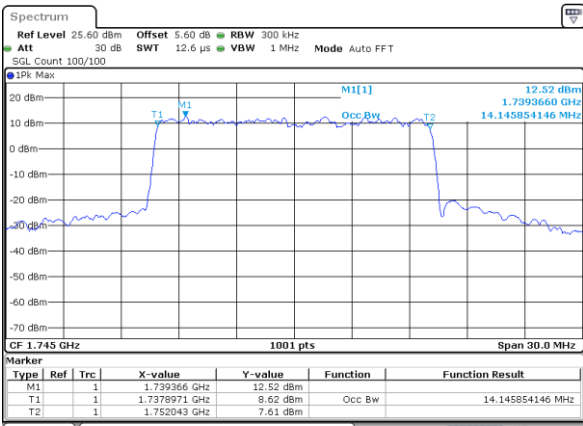
Date: 14.SEP.2022 09:52:15

16QAM



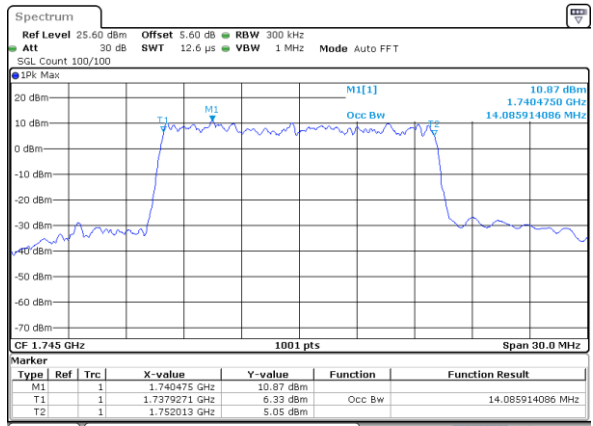
Date: 14.SEP.2022 09:52:38

64QAM



Date: 14.SEP.2022 09:52:56

256QAM

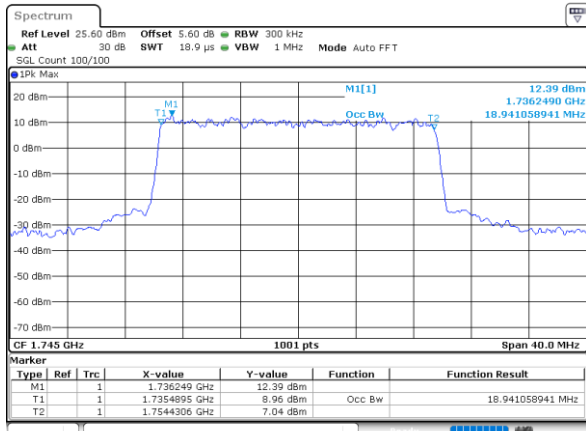


Date: 14.SEP.2022 09:54:06



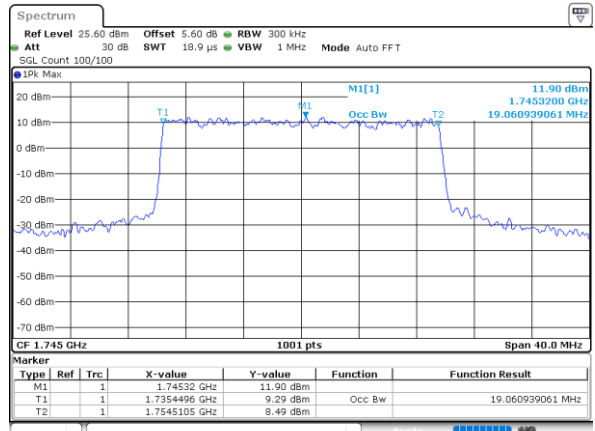
FR1 n66 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



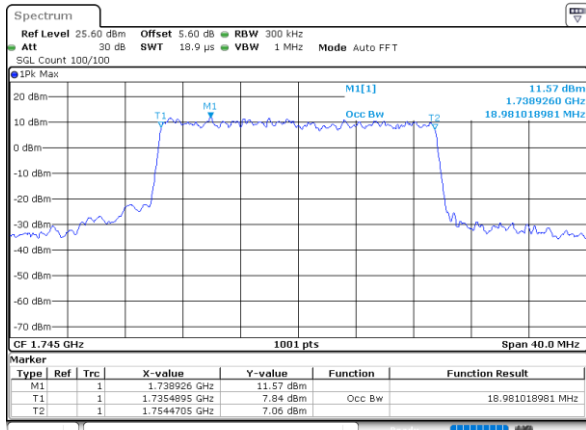
Date: 14\_SEP.2022 09:39:02

16QAM



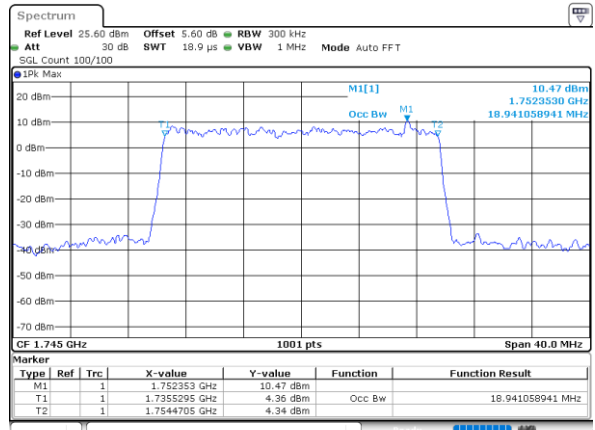
Date: 14\_SEP.2022 09:38:31

64QAM



Date: 14\_SEP.2022 09:38:15

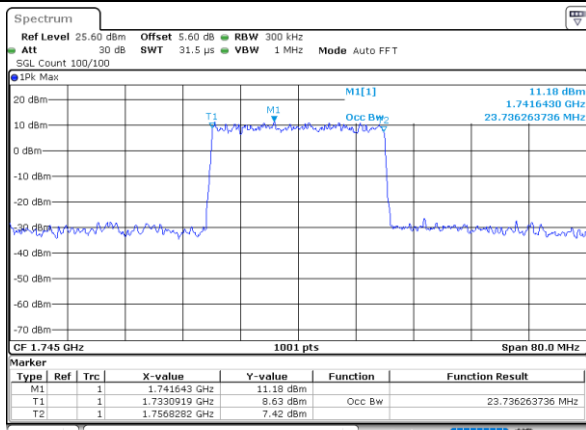
256QAM



Date: 14\_SEP.2022 09:37:57

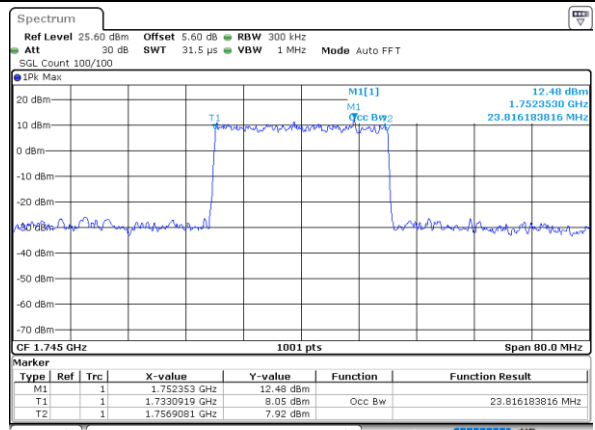
FR1 n66 / 25MHz / CP OFDM / Middle Channel / Full RB

QPSK



Date: 14\_SEP.2022 09:36:10

16QAM



Date: 14\_SEP.2022 09:36:29