

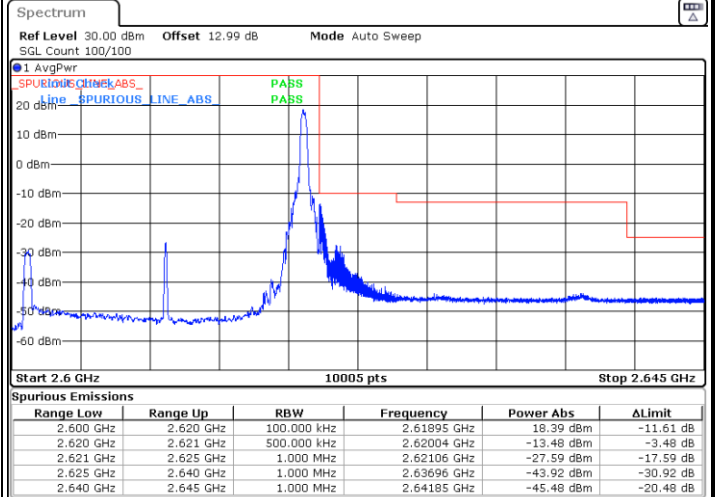
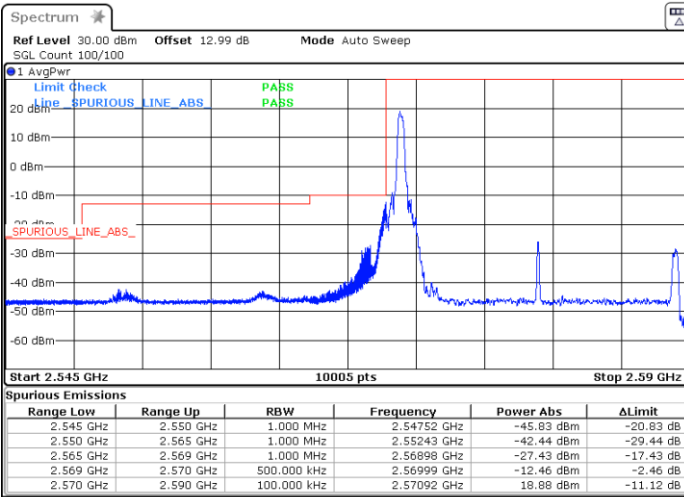


Conducted Band Edge

FR1 n38/ 20MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

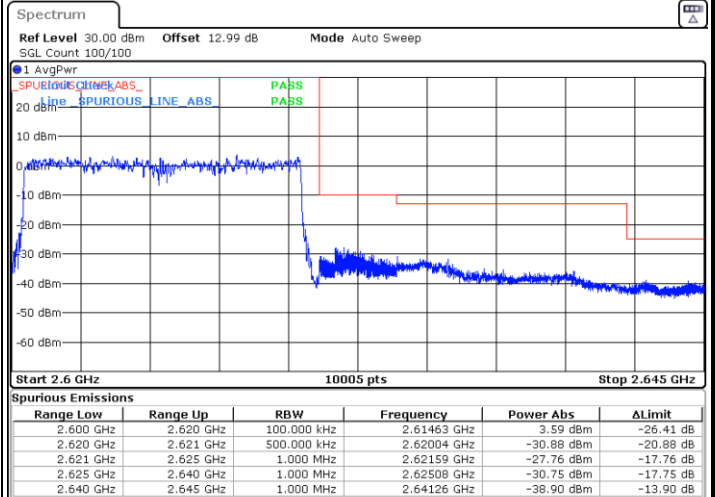
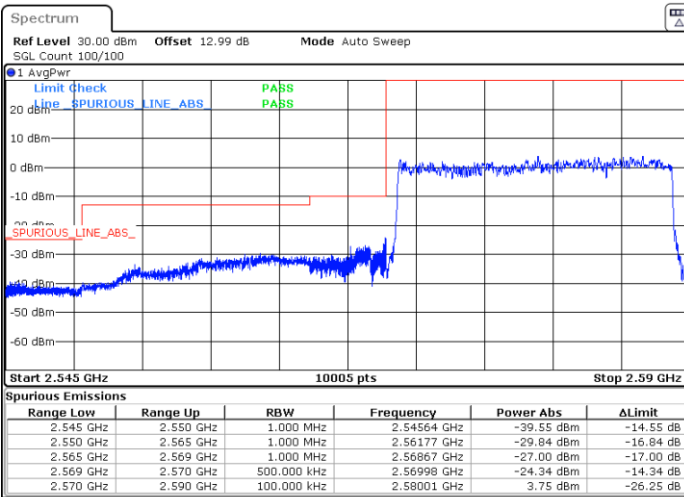


Date: 21 JUN 2022 22:54:58

Date: 21 JUN 2022 22:47:18

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21 JUN 2022 22:56:46

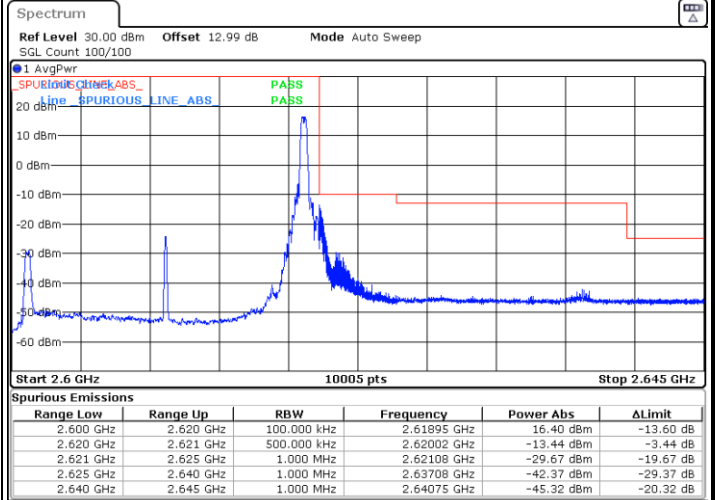
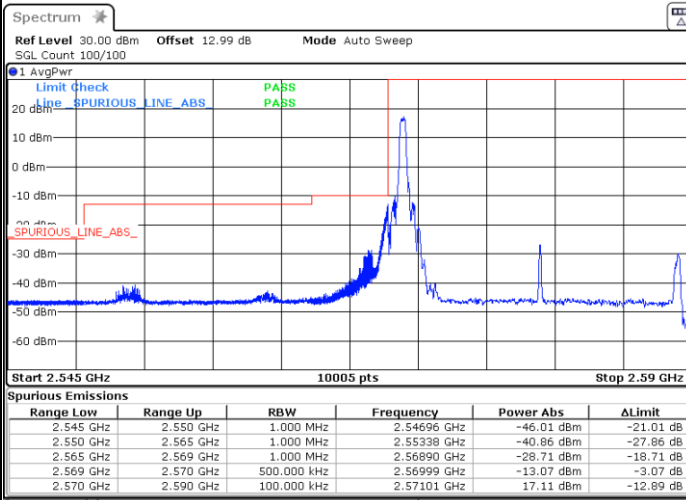
Date: 21 JUN 2022 22:45:48



FR1 n38 / 20MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

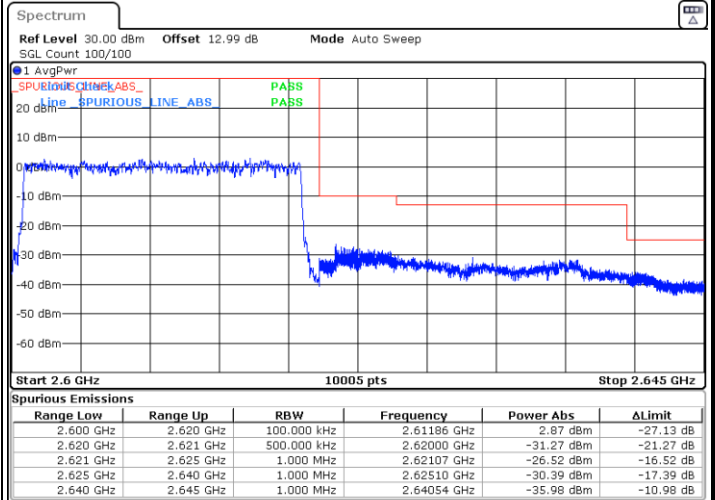
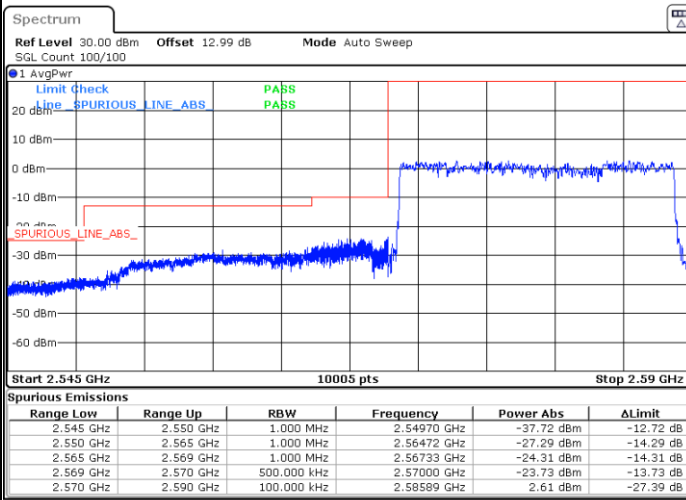


Date: 21 JUN 2022 22:56:02

Date: 21 JUN 2022 22:46:52

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21 JUN 2022 22:56:26

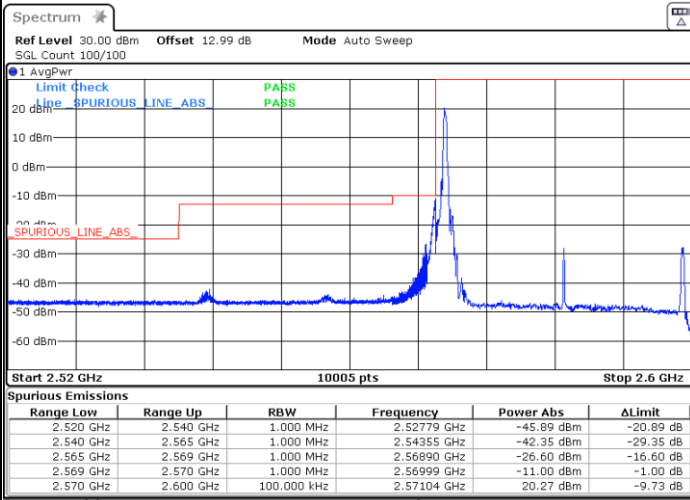
Date: 21 JUN 2022 22:46:15



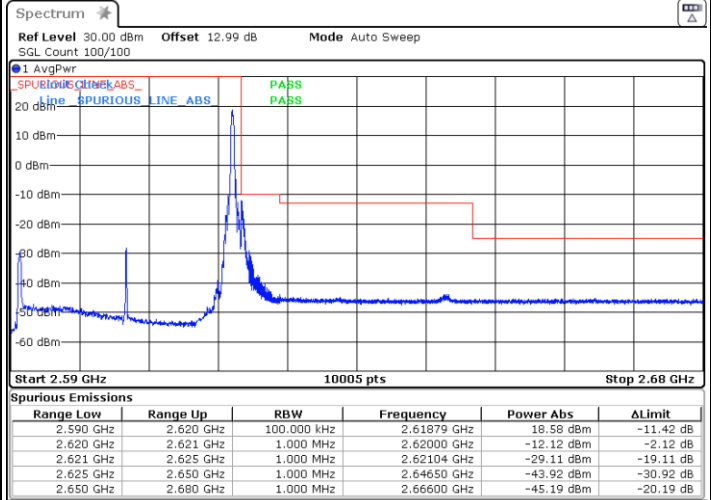
FR1 n38/ 30MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



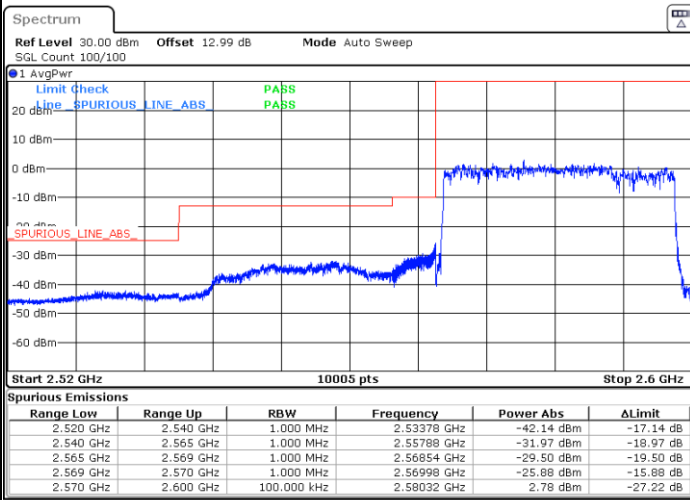
Date: 21 JUN 2022 23:02:13



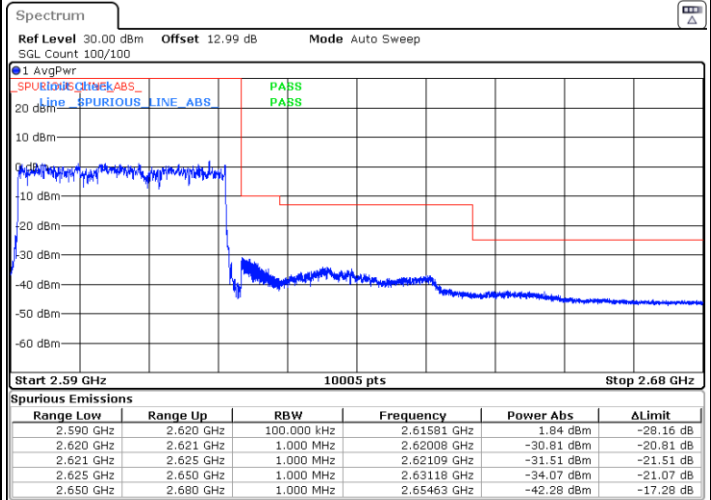
Date: 21 JUN 2022 23:18:38

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21 JUN 2022 23:04:05



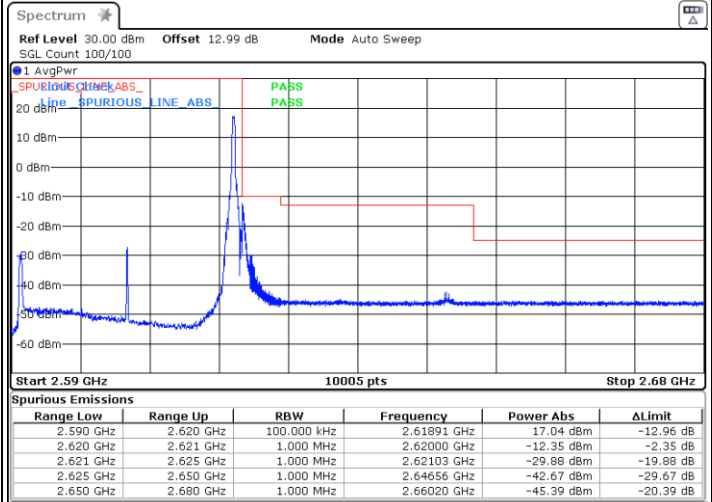
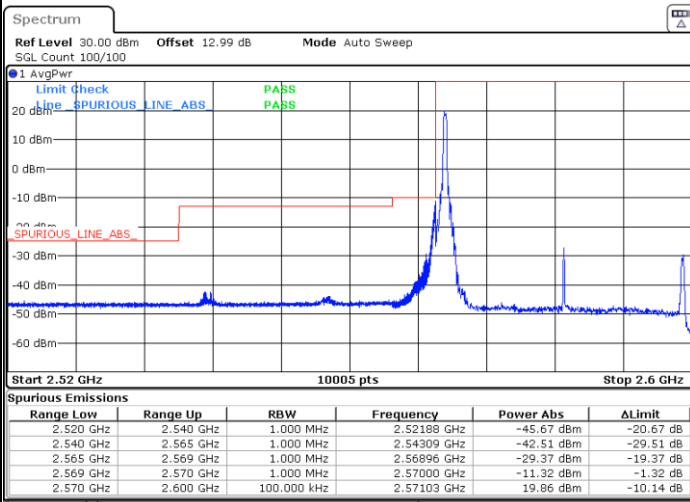
Date: 21 JUN 2022 23:13:38



FR1 n38 / 30MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

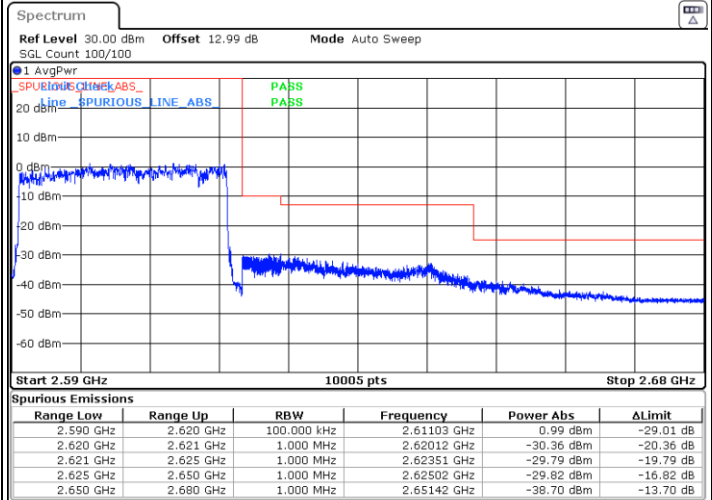
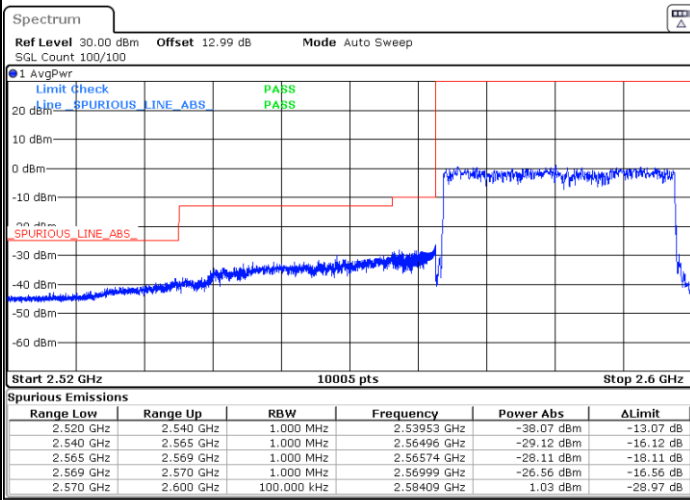


Date: 21 JUN 2022 23:02:45

Date: 21 JUN 2022 23:17:46

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21 JUN 2022 23:03:31

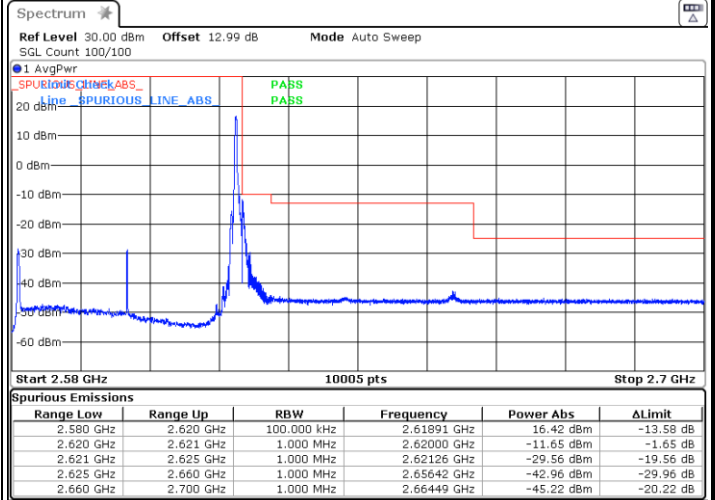
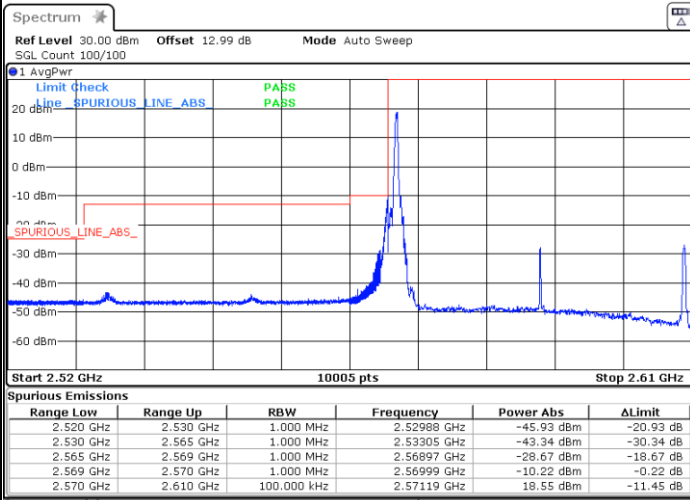
Date: 21 JUN 2022 23:14:46



FR1 n38 / 40MHz / DFT-S OFDM / PI/2 BPSK

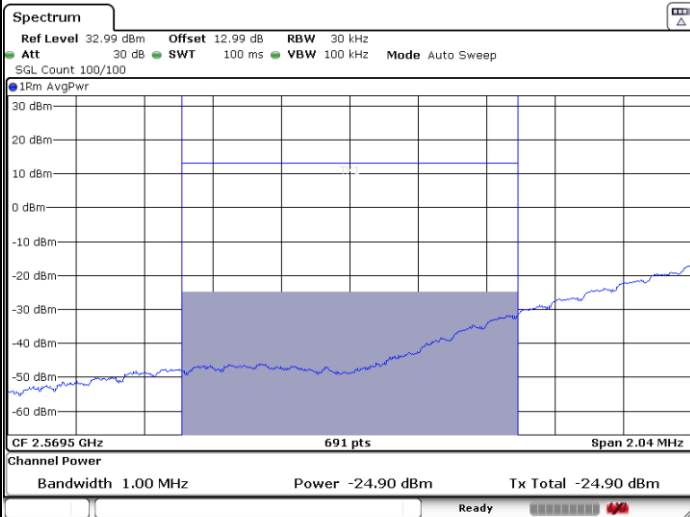
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

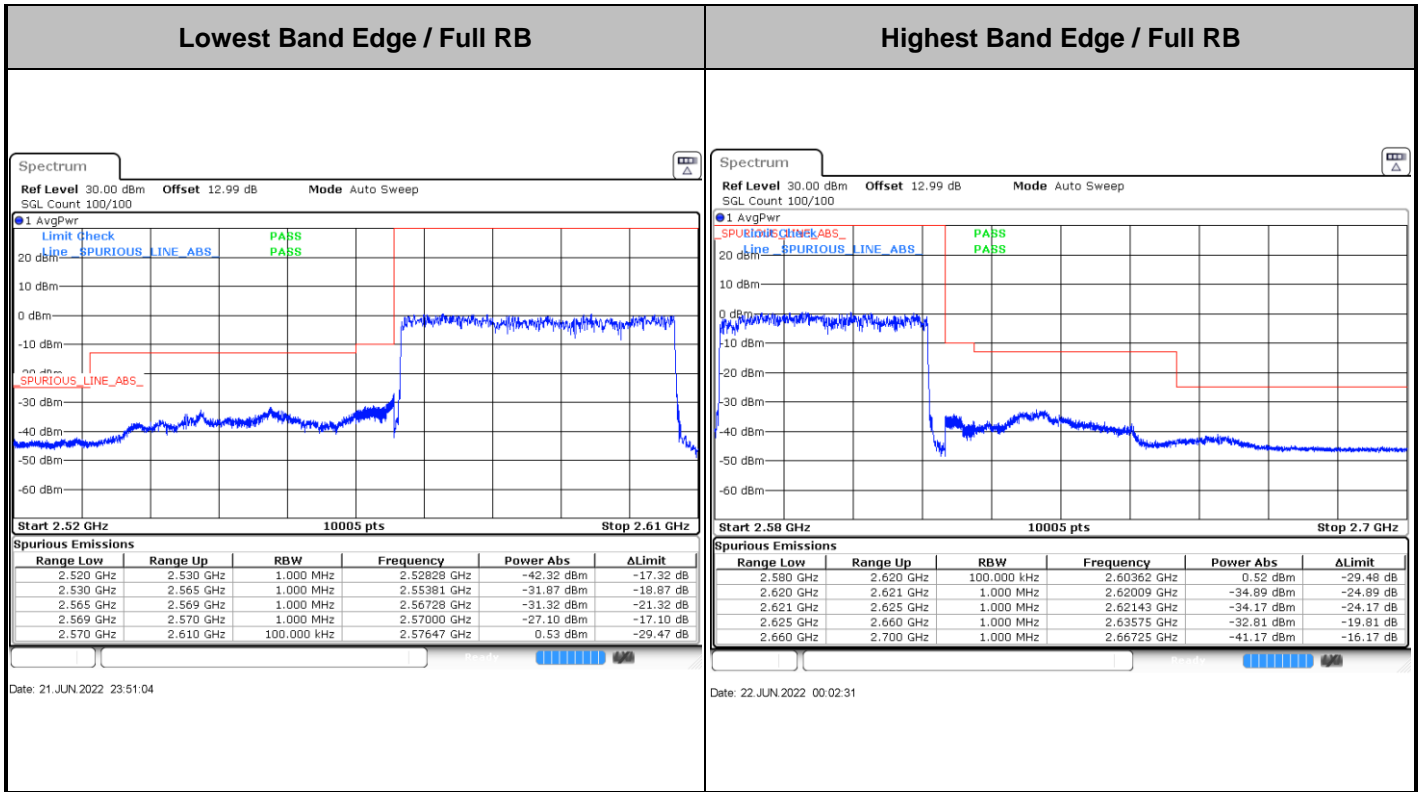


Date: 21 JUN 2022 23:29:23

Date: 22 JUN 2022 00:09:56



Date: 21 JUN 2022 23:47:50

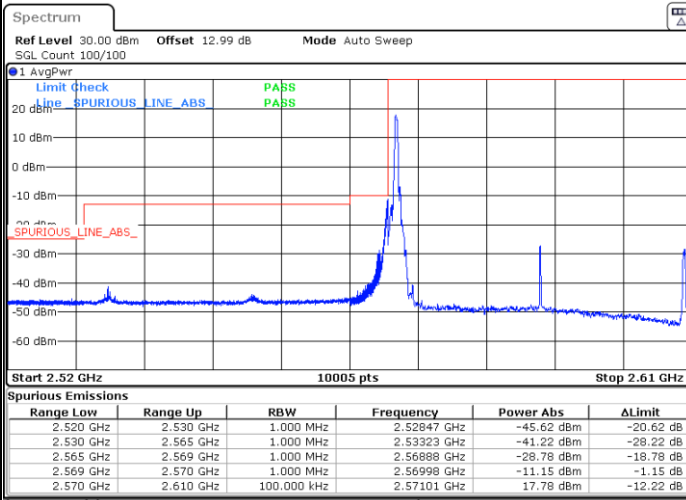




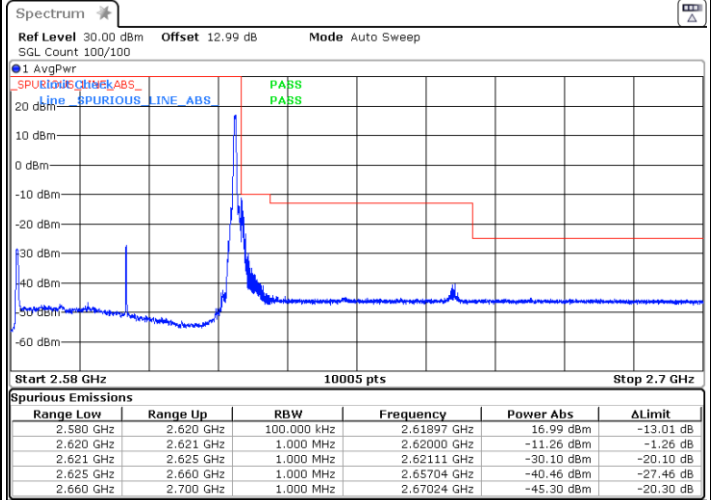
FR1 n38 / 40MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



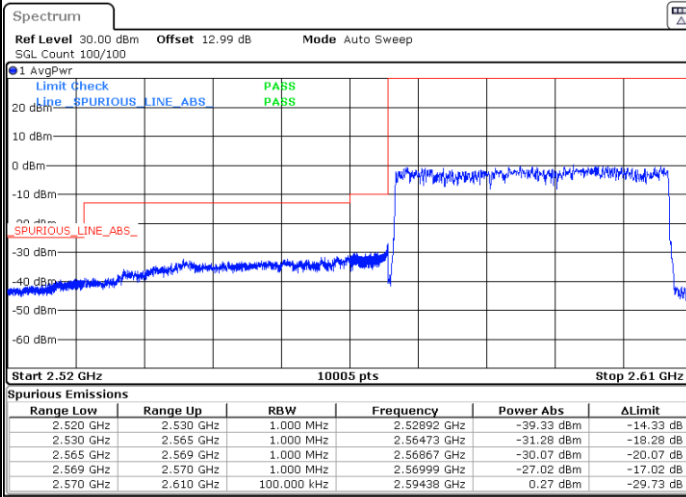
Date: 21 JUN 2022 23:49:42



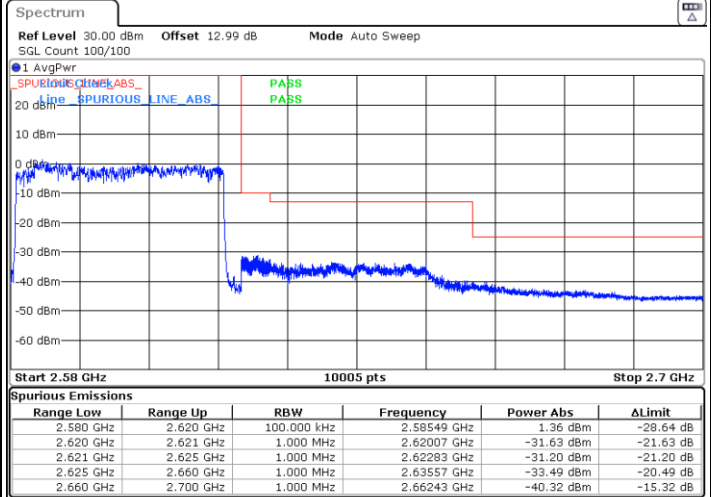
Date: 22 JUN 2022 00:06:42

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21 JUN 2022 23:50:37



Date: 22 JUN 2022 00:03:57



Conducted Spurious Emission

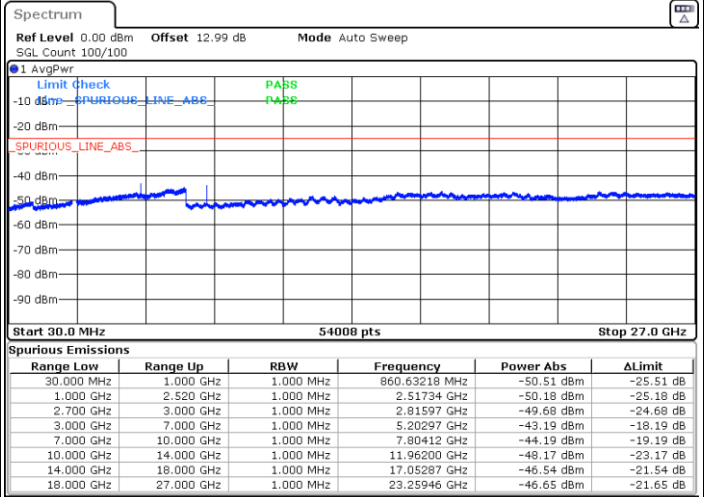
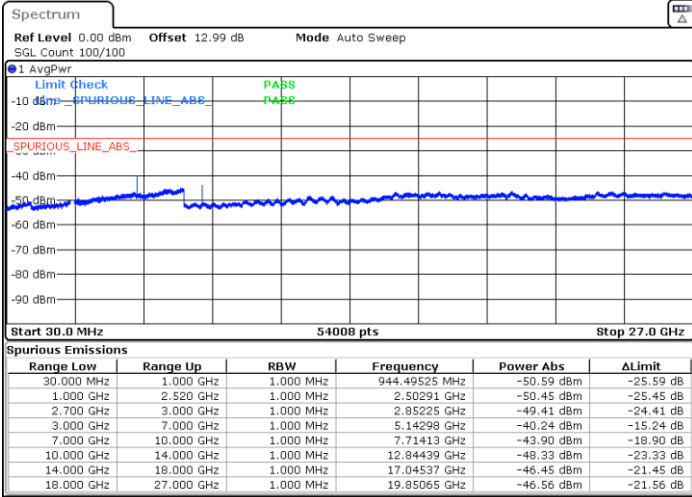




FR1 n38 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

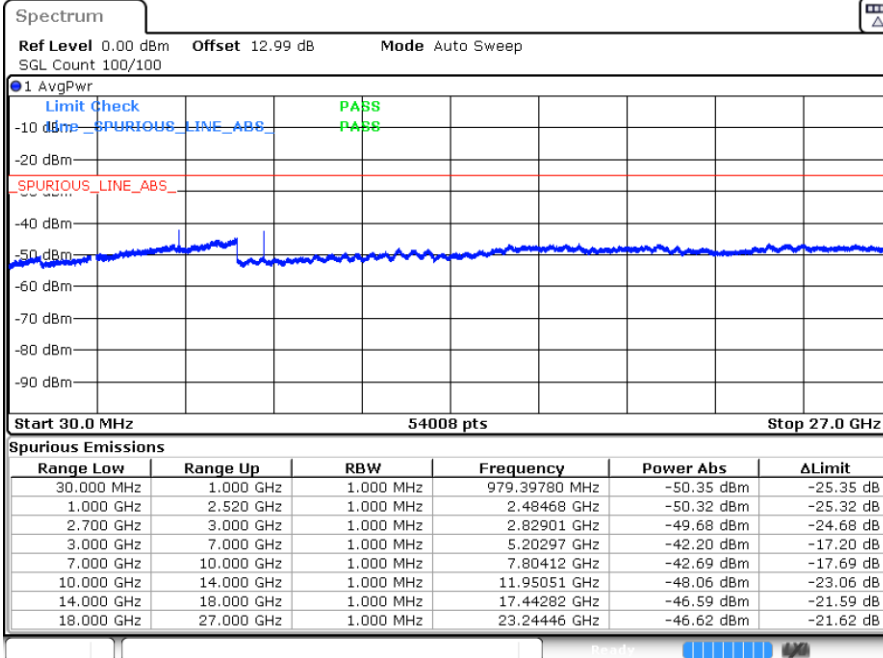
Middle Channel / 1RB1



Date: 21 JUN 2022 22:53:23

Date: 21 JUN 2022 22:50:34

Highest Channel / 1RB1



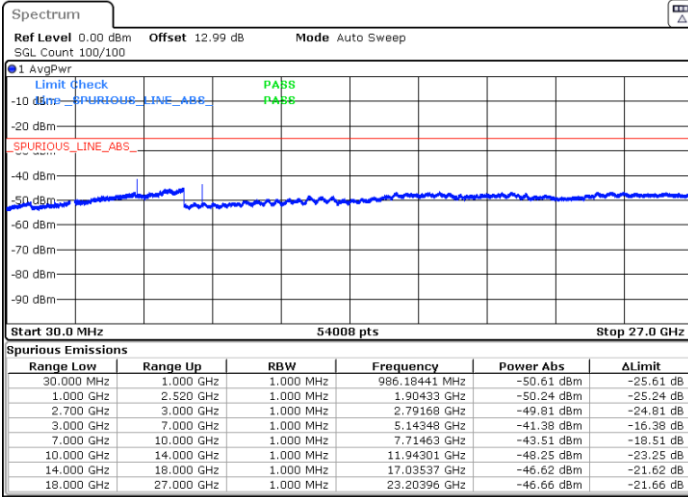
Date: 21 JUN 2022 22:49:43



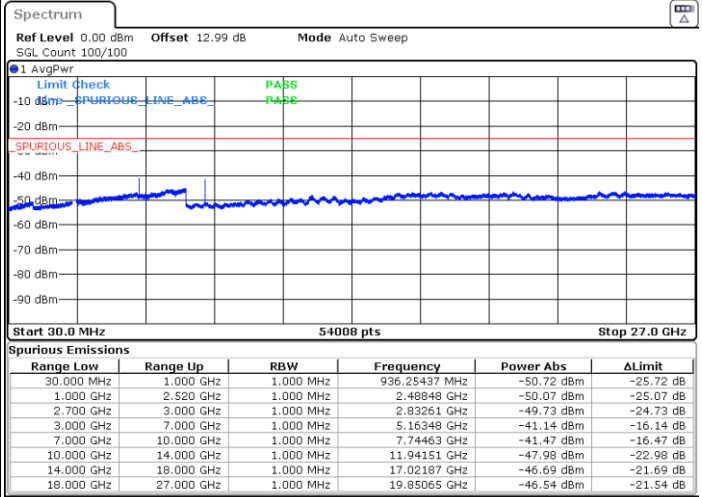
FR1 n38 / 30MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

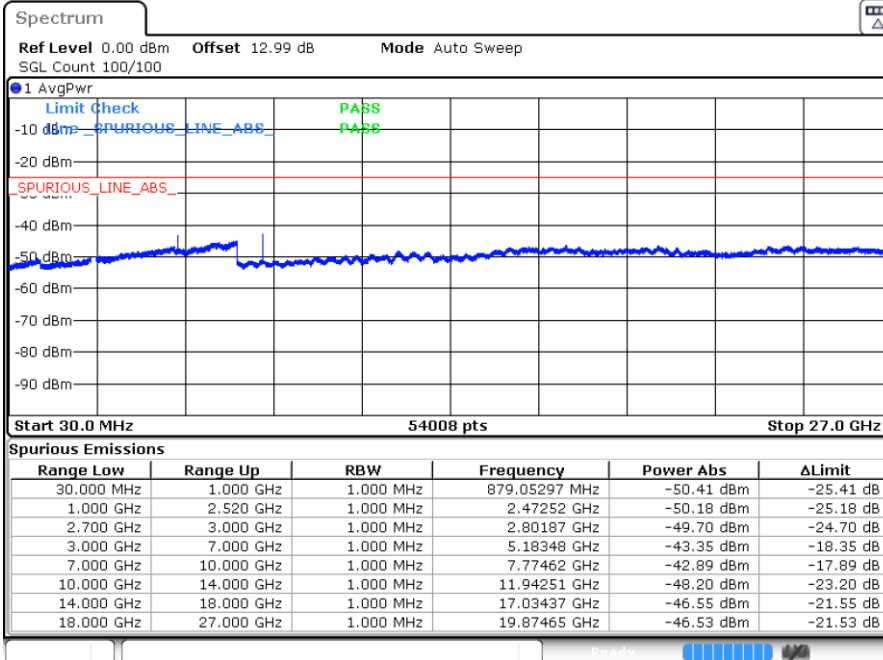


Date: 21 JUN 2022 23:05:07



Date: 21 JUN 2022 23:08:23

Highest Channel / 1RB1



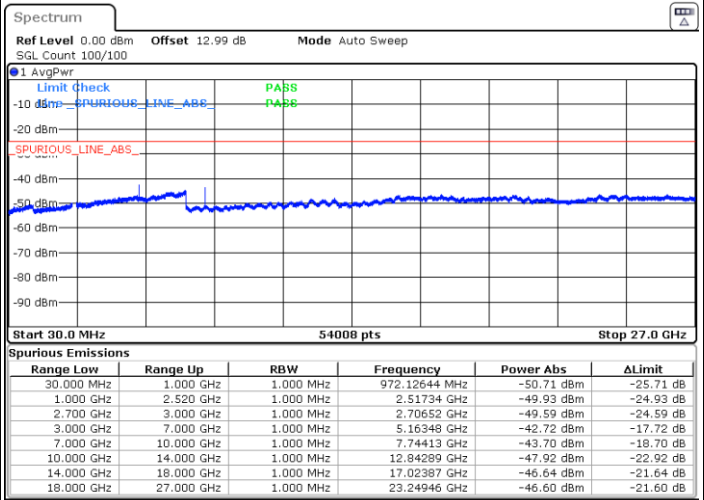
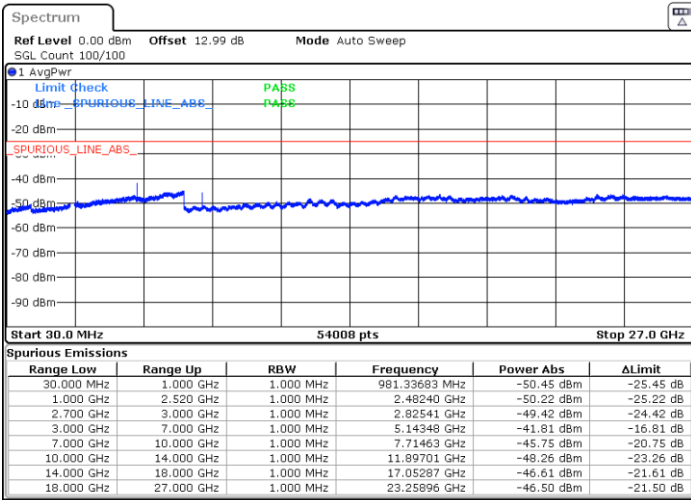
Date: 21 JUN 2022 23:19:39



FR1 n38 / 30MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

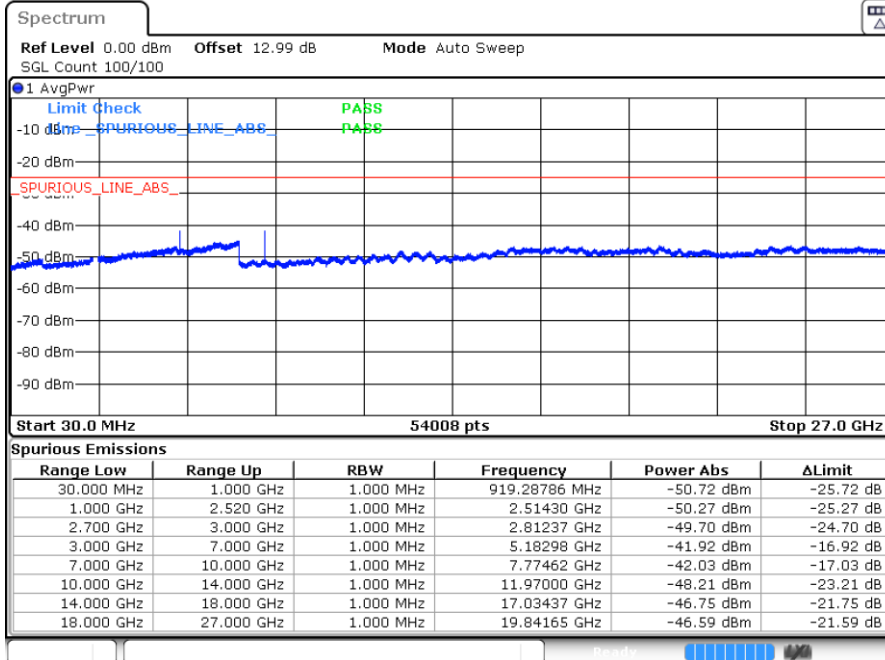
Middle Channel / 1RB1



Date: 21 JUN 2022 23:06:05

Date: 21 JUN 2022 23:07:26

Highest Channel / 1RB1



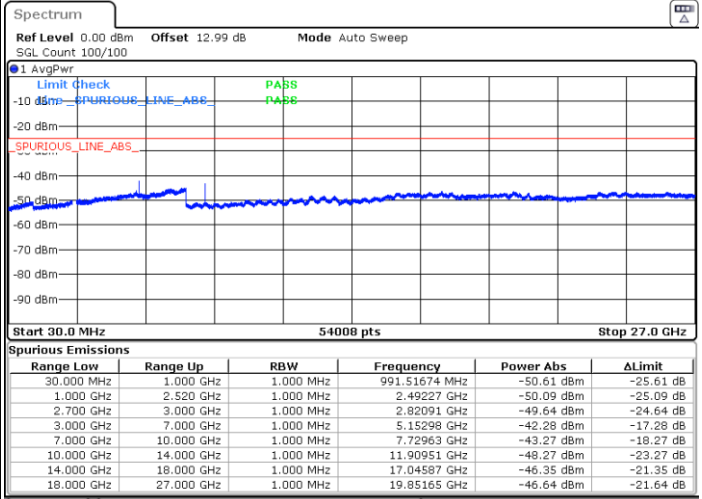
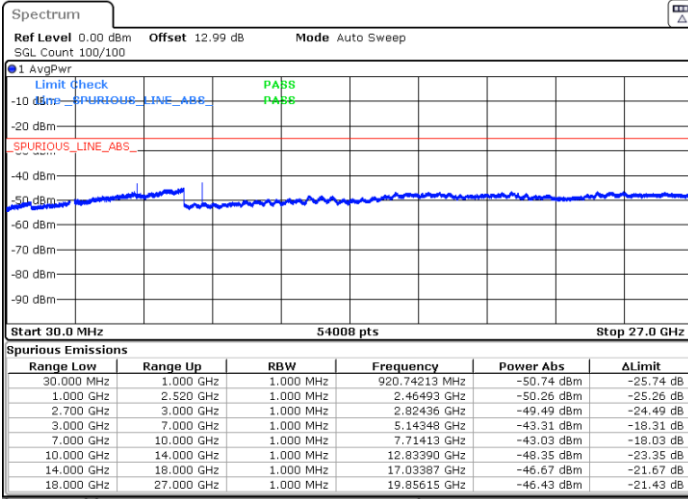
Date: 21 JUN 2022 23:21:02



FR1 n38 / 40MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

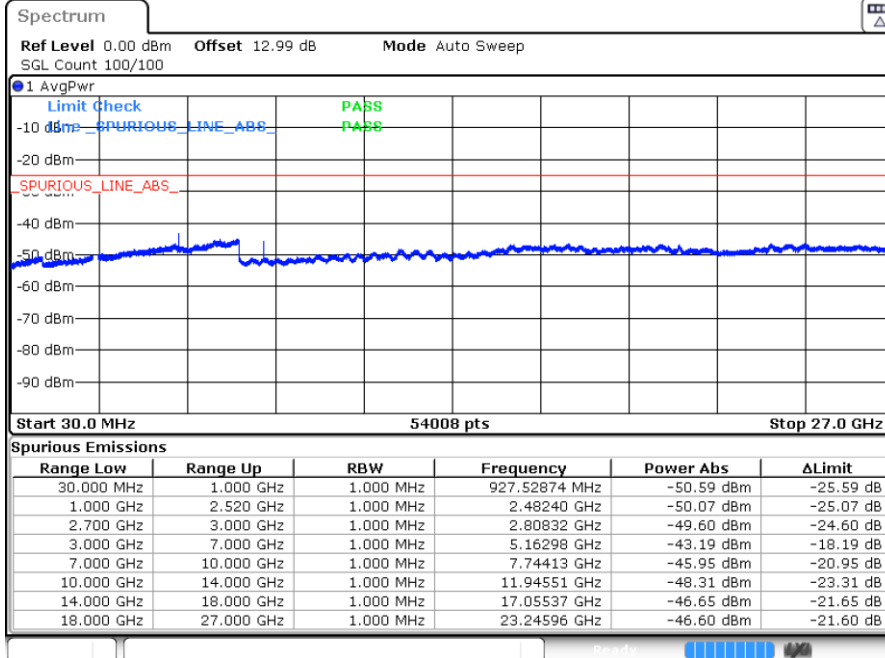
Middle Channel / 1RB1



Date: 21 JUN 2022 23:52:20

Date: 21 JUN 2022 23:55:32

Highest Channel / 1RB1



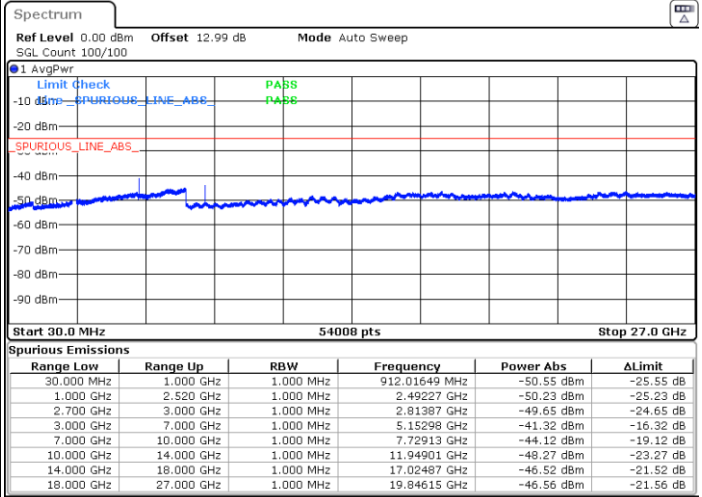
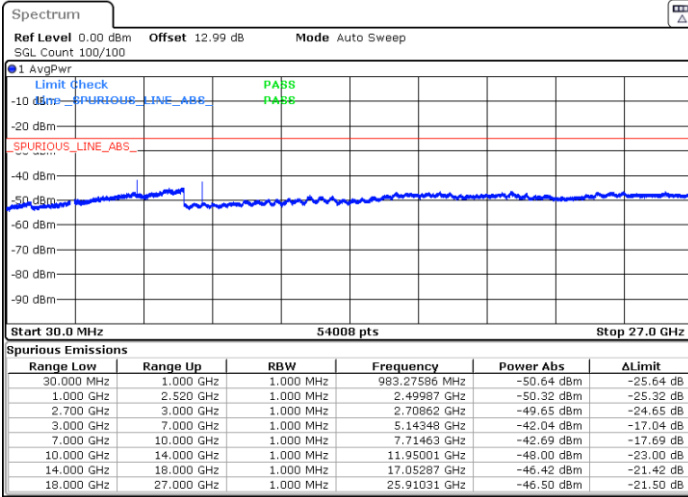
Date: 22 JUN 2022 00:11:33



FR1 n38 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

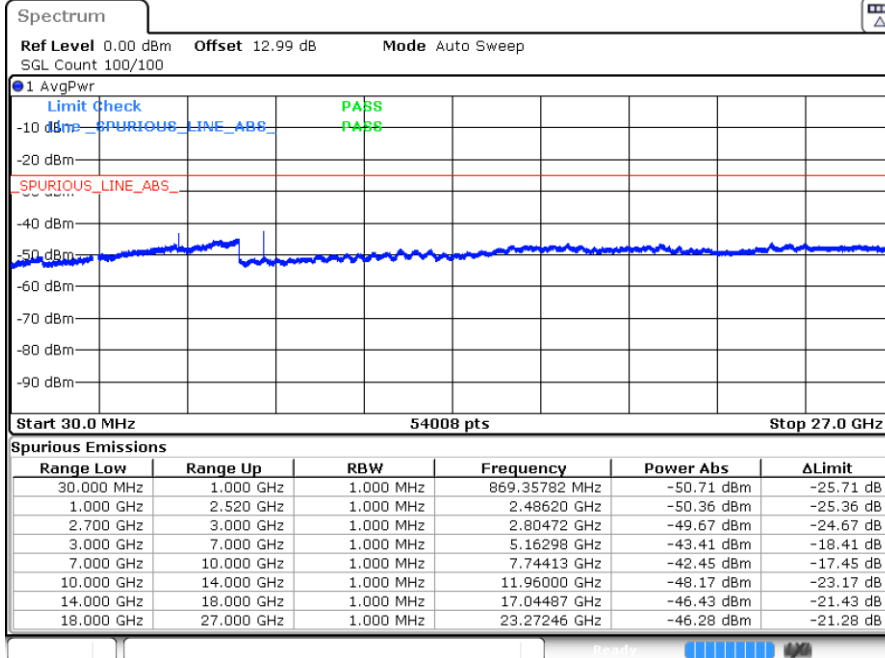
Middle Channel / 1RB1



Date: 21 JUN 2022 23:53:10

Date: 21 JUN 2022 23:54:17

Highest Channel / 1RB1



Date: 22 JUN 2022 00:12:26



Frequency Stability

Test Conditions		FR1 n78 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 100MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0013	PASS
40	Normal Voltage	0.0026	
30	Normal Voltage	0.0034	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0024	
0	Normal Voltage	0.0017	
-10	Normal Voltage	0.0035	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0023	
20	Maximum Voltage	0.0018	
20	Normal Voltage	0.0031	
20	Battery End Point	0.0038	

Note:

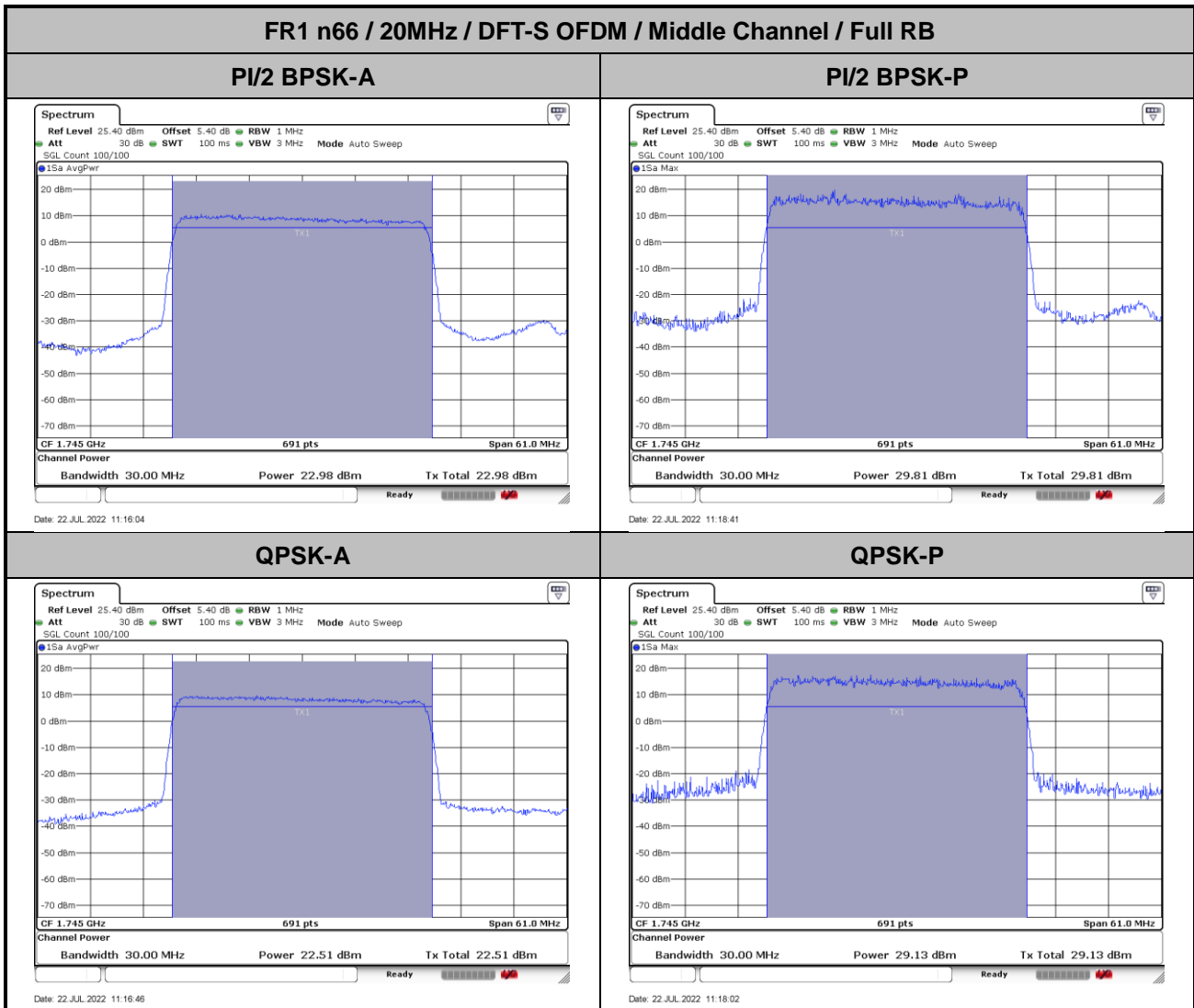
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.55 V. ; Maximum Voltage =4.45V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



FR1 12A-n66

Peak-to-Average Ratio

Mode	FR1 n66 / 20MHz / DFT-S OFDM		
Mod.	PI/2 BPSK	QPSK	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	6.83	6.62	PASS





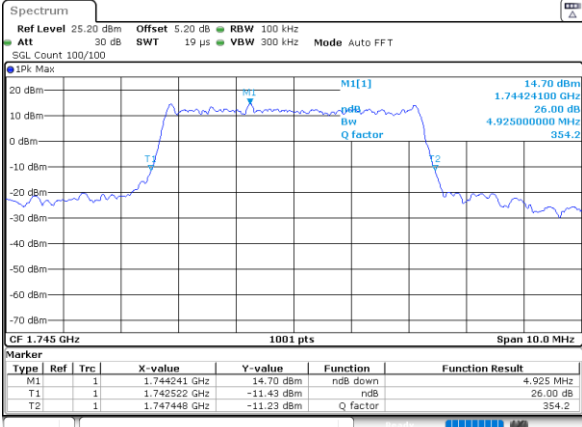
26dB Bandwidth

Mode	FR1 n66 : 26dBW (MHz) / CP OFDM							
BW	5M				10M			
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	4.93	4.99	4.98	4.91	10.05	9.99	10.17	10.15
BW	15M				20M			
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	14.99	14.93	15.02	14.93	21.14	21.30	21.78	21.02
BW	30M							
Mod.	QPSK		16QAM		64QAM		256QAM	
Middle CH	29.69		29.57		29.53		29.53	



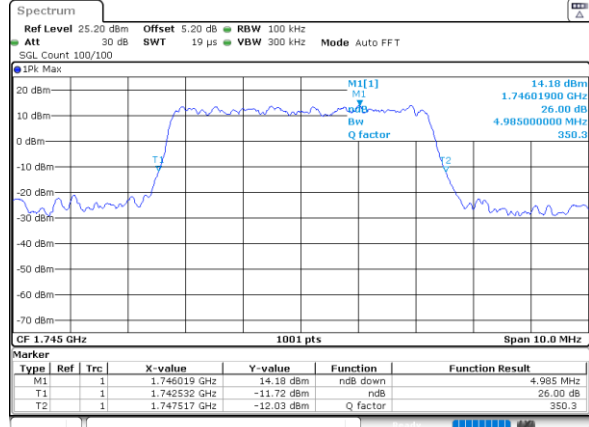
FR1 n66 / 5MHz / CP OFDM

QPSK



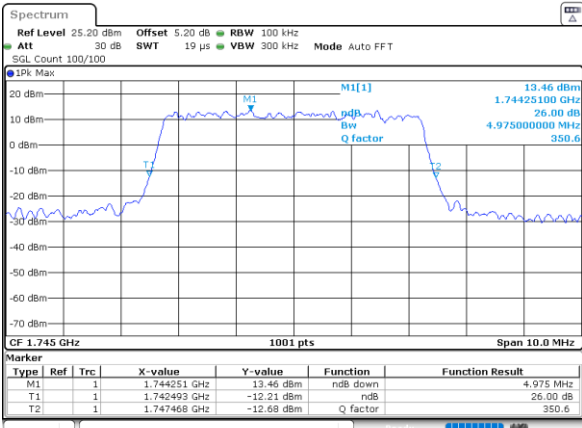
Date: 21 JUN 2022 22:15:25

16QAM



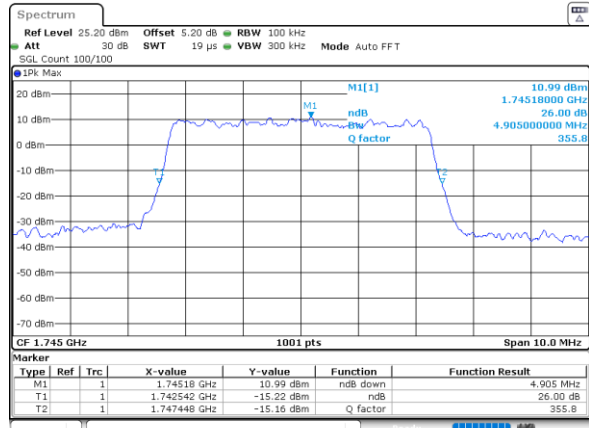
Date: 21 JUN 2022 22:15:53

64QAM



Date: 21 JUN 2022 22:16:17

256QAM

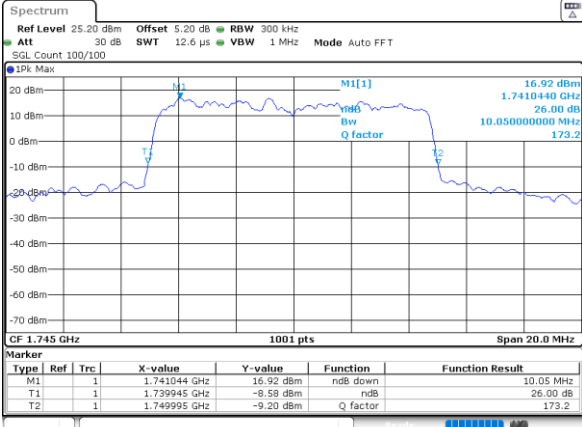


Date: 21 JUN 2022 22:23:18



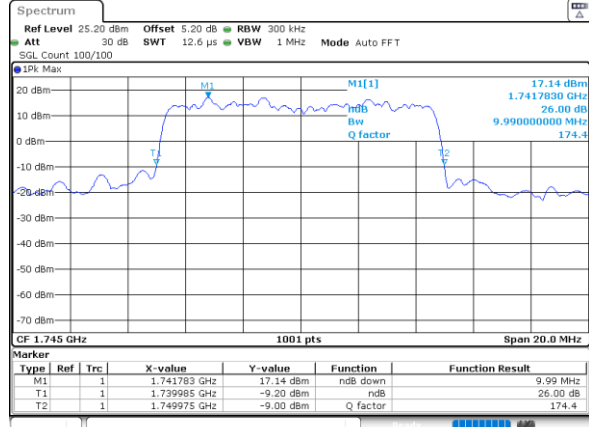
FR1 n66 / 10MHz / CP OFDM

QPSK



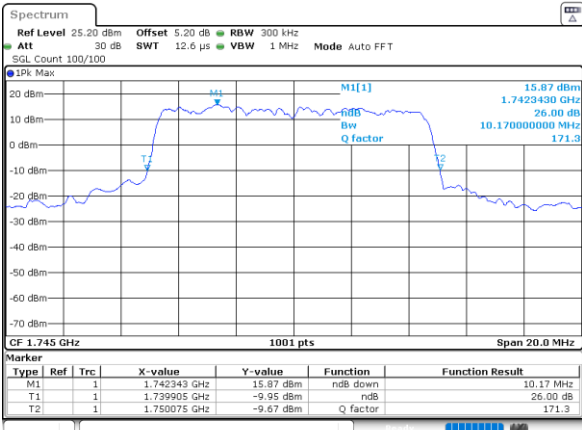
Date: 21 JUN 2022 22:52:13

16QAM



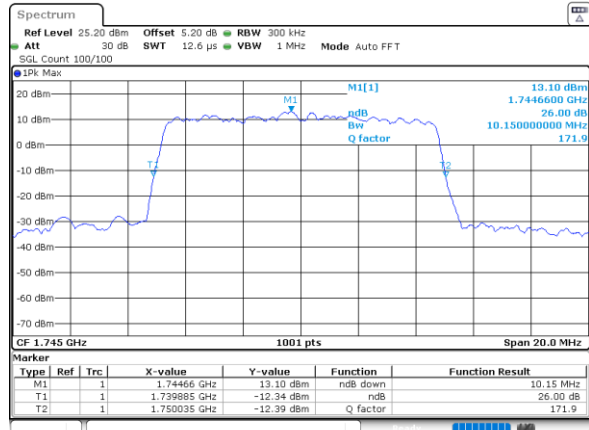
Date: 21 JUN 2022 22:53:11

64QAM



Date: 21 JUN 2022 22:53:34

256QAM

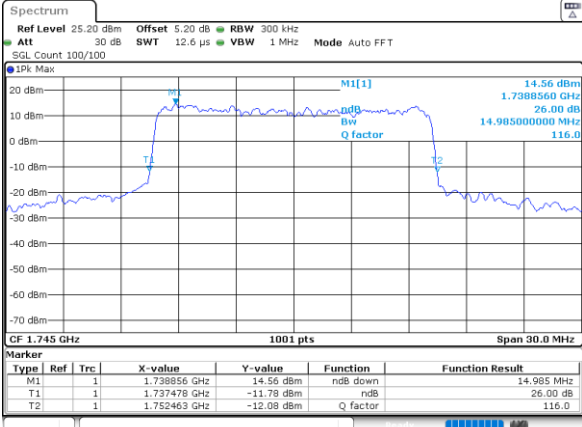


Date: 21 JUN 2022 22:55:01



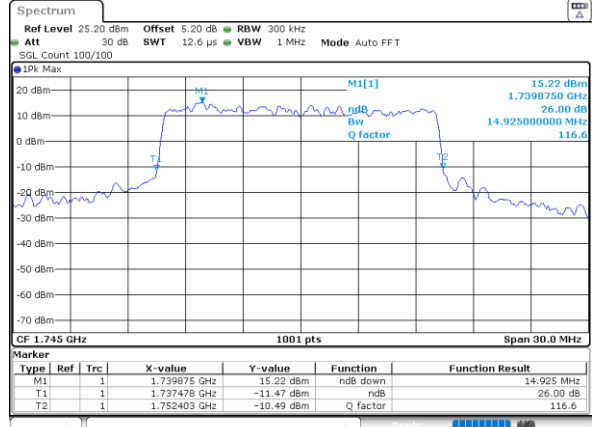
FR1 n66 / 15MHz / CP OFDM

QPSK



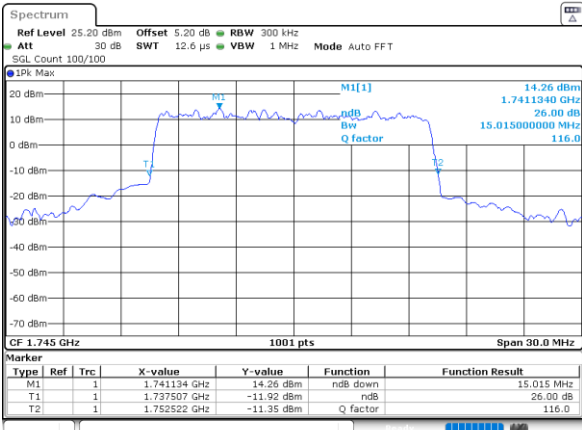
Date: 21 JUN 2022 23:01:00

16QAM



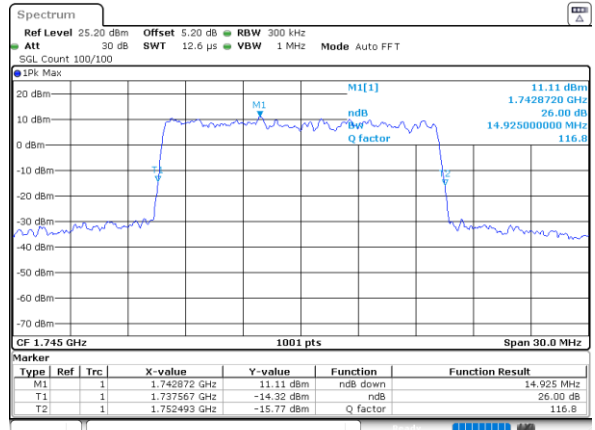
Date: 21 JUN 2022 23:00:38

64QAM



Date: 21 JUN 2022 23:00:19

256QAM

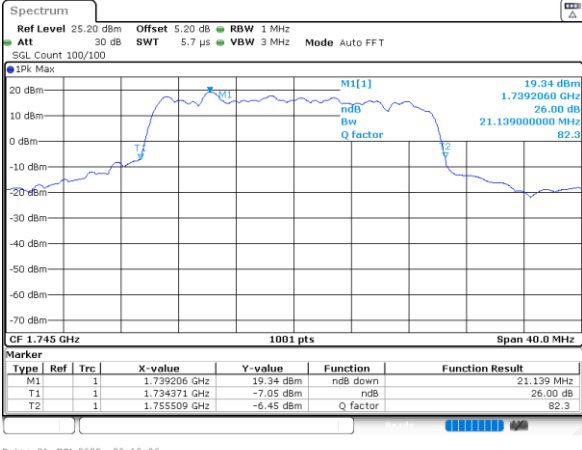


Date: 21 JUN 2022 23:00:00



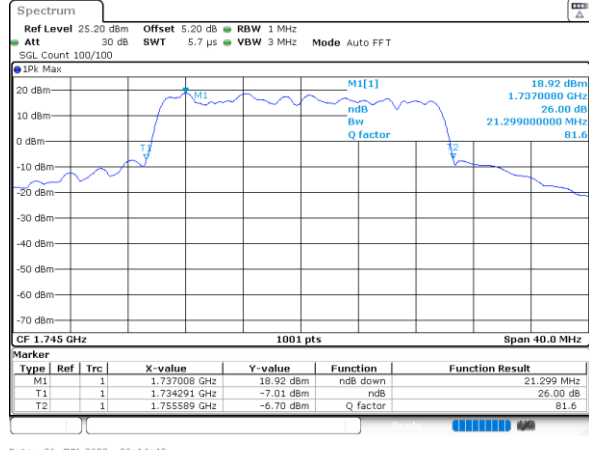
FR1 n66 / 20MHz / CP OFDM

QPSK



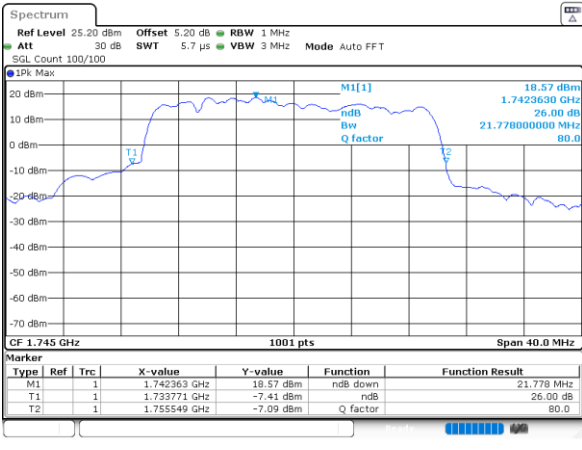
Date: 21 JUN 2022 23:13:26

16QAM



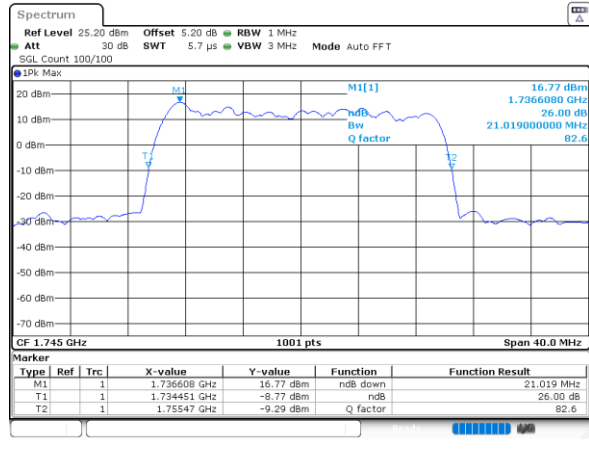
Date: 21 JUN 2022 23:14:42

64QAM



Date: 21 JUN 2022 23:12:33

256QAM

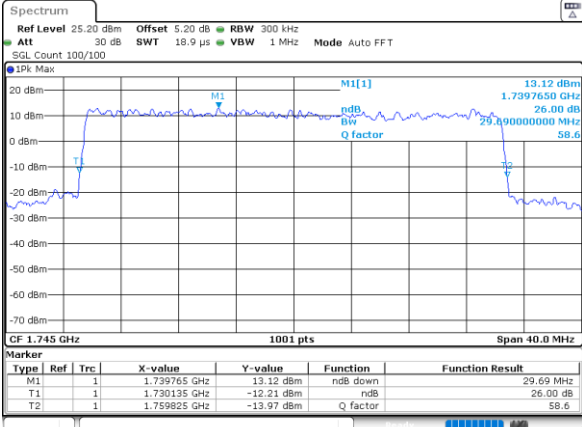


Date: 21 JUN 2022 23:12:58



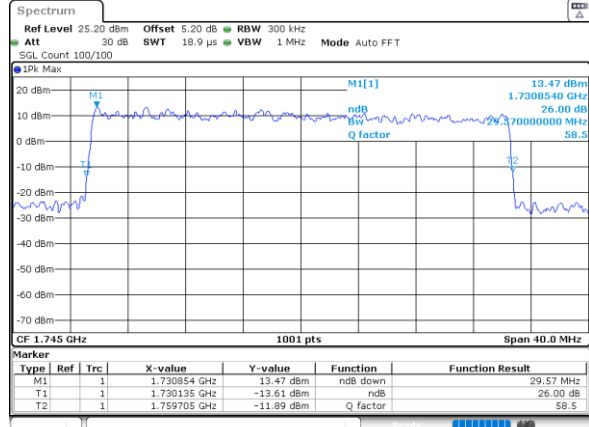
FR1 n66 / 30MHz / CP OFDM

QPSK



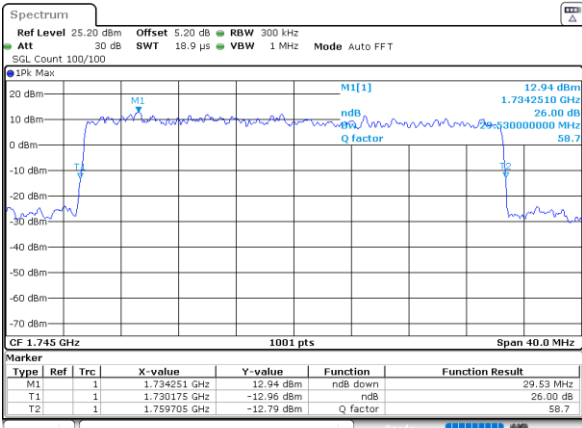
Date: 21 JUN 2022 23:24:30

16QAM



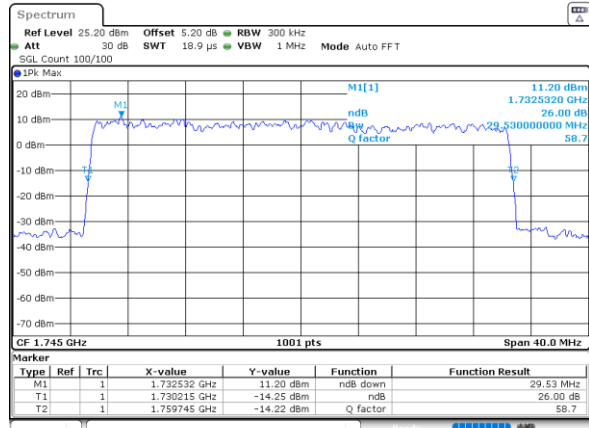
Date: 21 JUN 2022 23:24:53

64QAM



Date: 21 JUN 2022 23:25:11

256QAM



Date: 21 JUN 2022 23:25:38



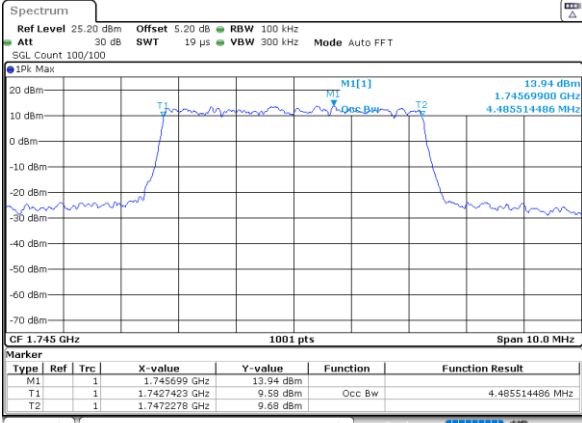
Occupied Bandwidth

Mode	FR1 n66 : OBW (MHz) / CP OFDM							
BW	5M				10M			
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	4.49	4.50	4.51	4.48	9.39	9.39	9.39	9.39
BW	15M				20M			
Mod.	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
Middle CH	14.12	14.12	14.12	14.21	19.30	19.38	19.50	19.30
BW	30M							
Mod.	QPSK		16QAM		64QAM		256QAM	
Middle CH	28.57		28.57		28.53		28.53	



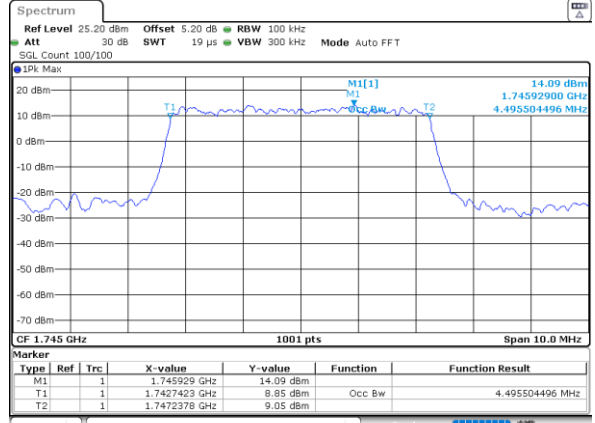
FR1 n66 / 5MHz / CP OFDM

QPSK



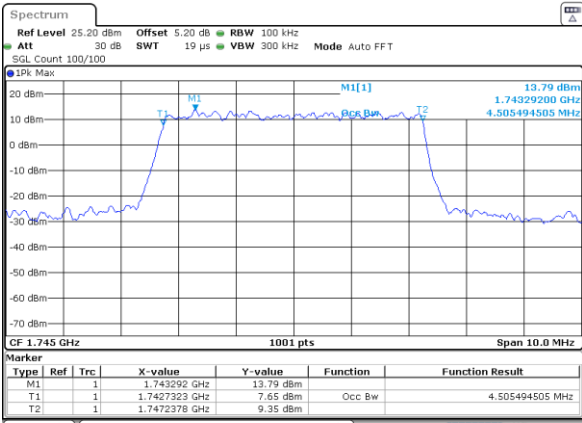
Date: 21 JUN 2022 22:04:05

16QAM



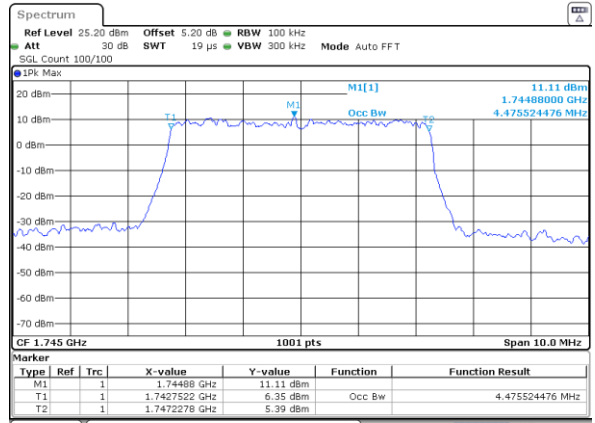
Date: 21 JUN 2022 22:15:42

64QAM



Date: 21 JUN 2022 22:16:06

256QAM

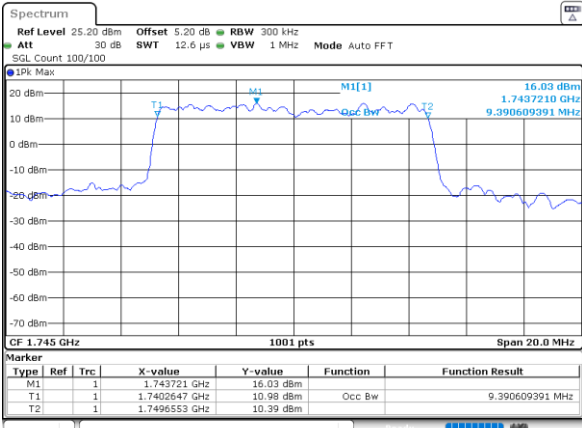


Date: 21 JUN 2022 22:21:55

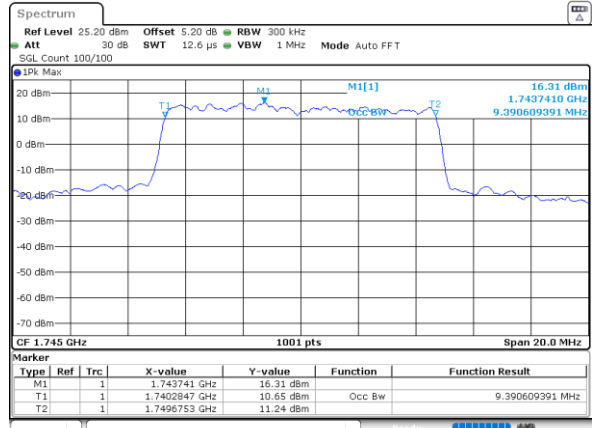


FR1 n66 / 10MHz / CP OFDM

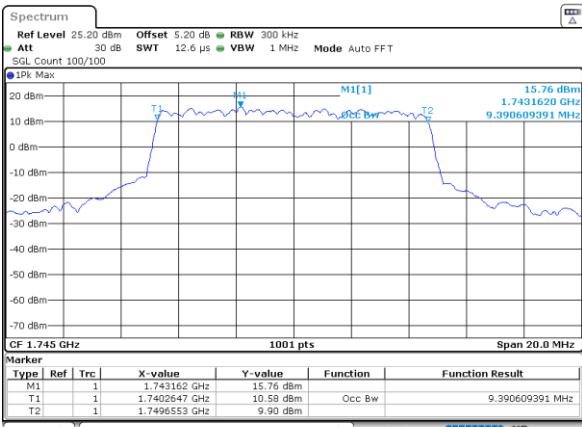
QPSK



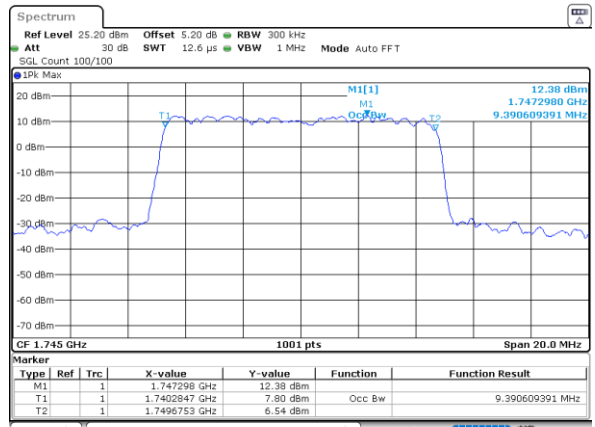
16QAM



64QAM



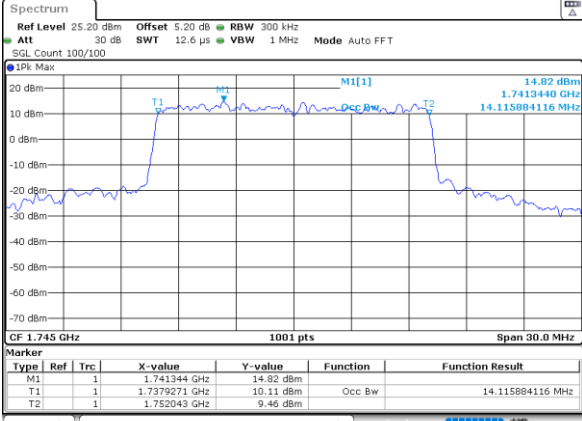
256QAM





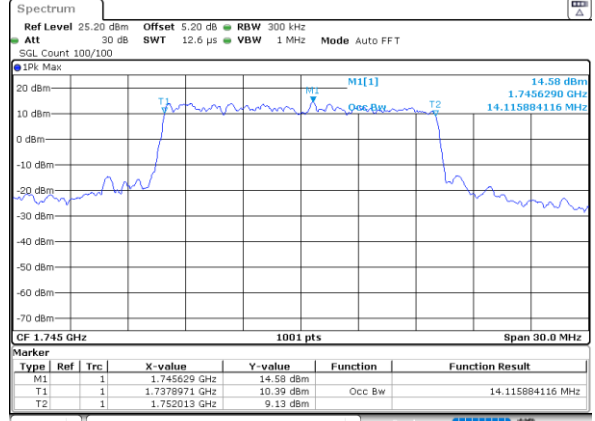
FR1 n66 / 15MHz / CP OFDM

QPSK



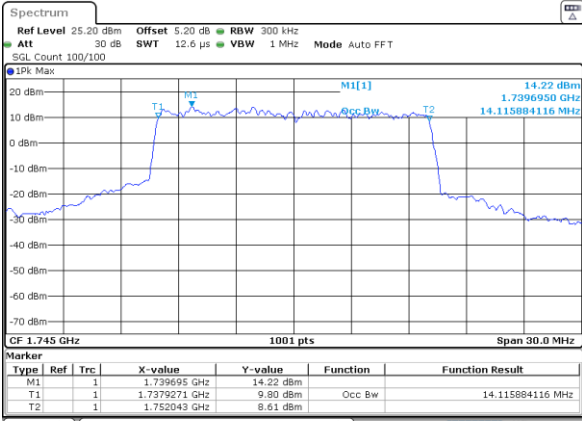
Date: 21 JUN 2022 23:00:53

16QAM



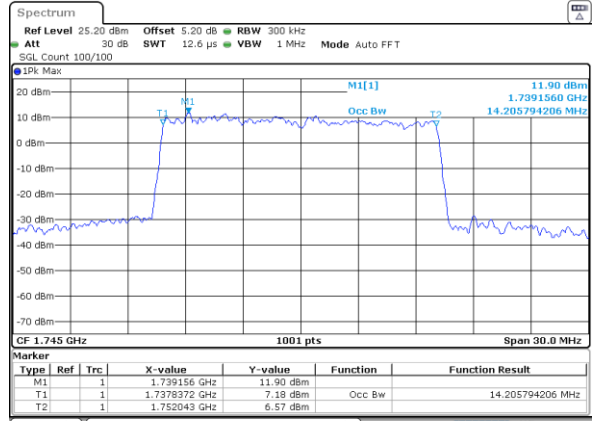
Date: 21 JUN 2022 23:00:31

64QAM



Date: 21 JUN 2022 23:00:13

256QAM

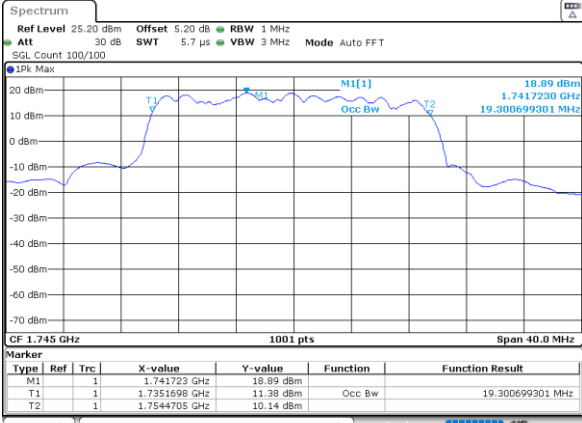


Date: 21 JUN 2022 22:59:54



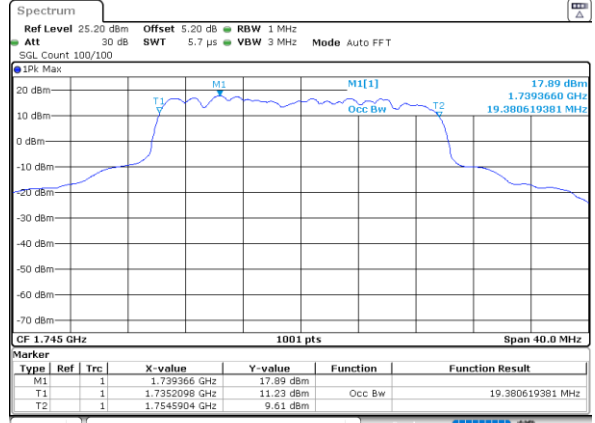
FR1 n66 / 20MHz / CP OFDM

QPSK



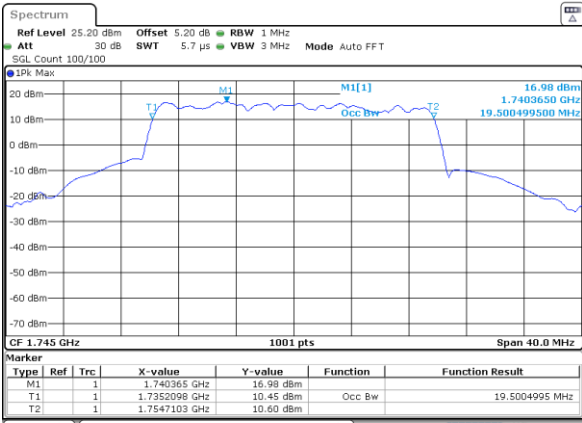
Date: 21 JUN 2022 23:13:08

16QAM



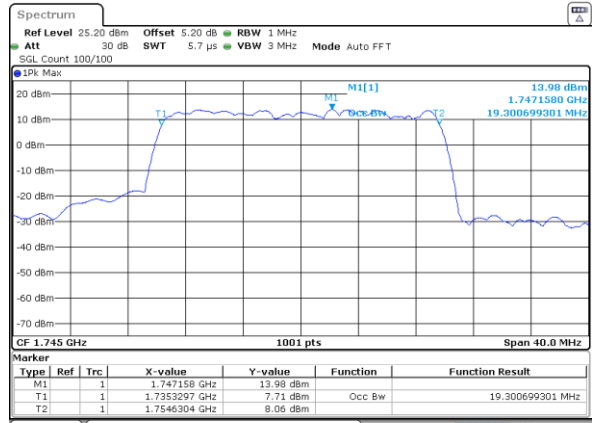
Date: 21 JUN 2022 23:14:36

64QAM



Date: 21 JUN 2022 23:22:25

256QAM

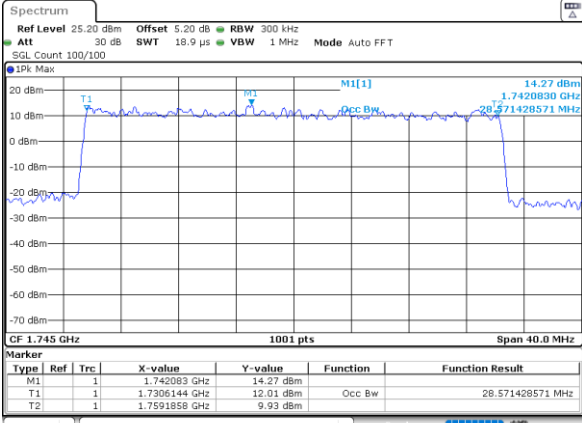


Date: 21 JUN 2022 23:22:50



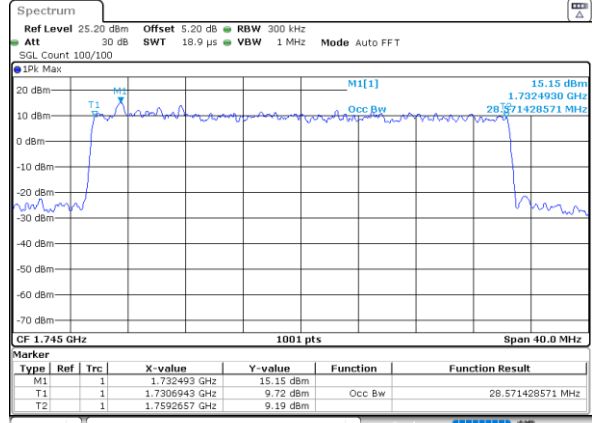
FR1 n66 / 30MHz / CP OFDM

QPSK



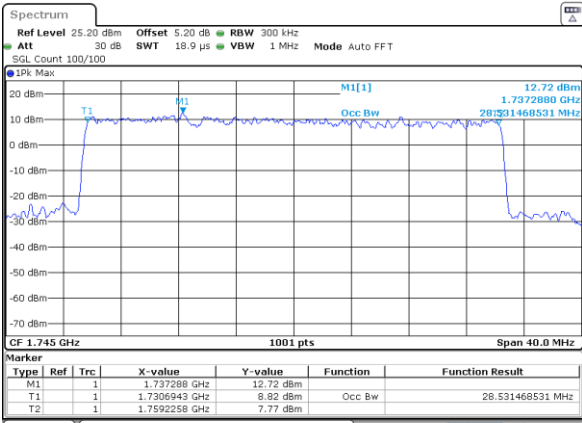
Date: 21 JUN 2022 23:24:21

16QAM



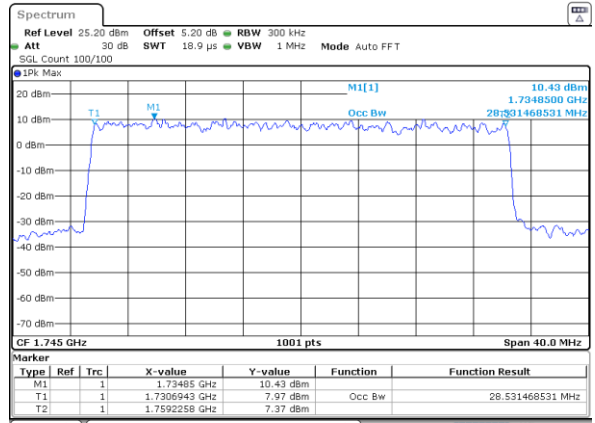
Date: 21 JUN 2022 23:24:46

64QAM



Date: 21 JUN 2022 23:25:05

256QAM



Date: 21 JUN 2022 23:25:27

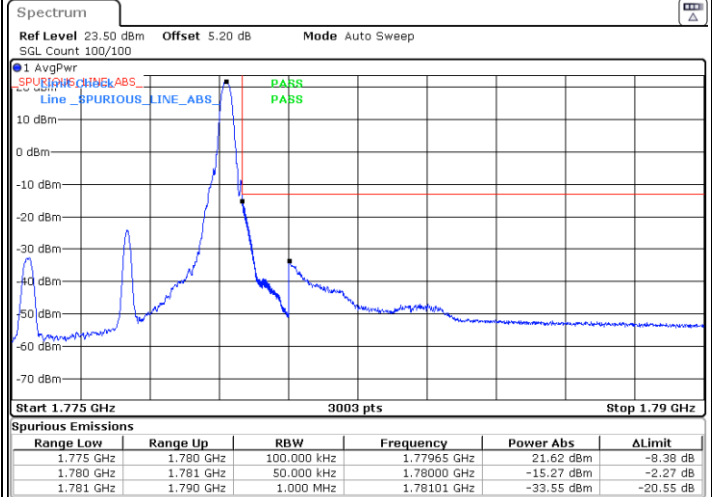
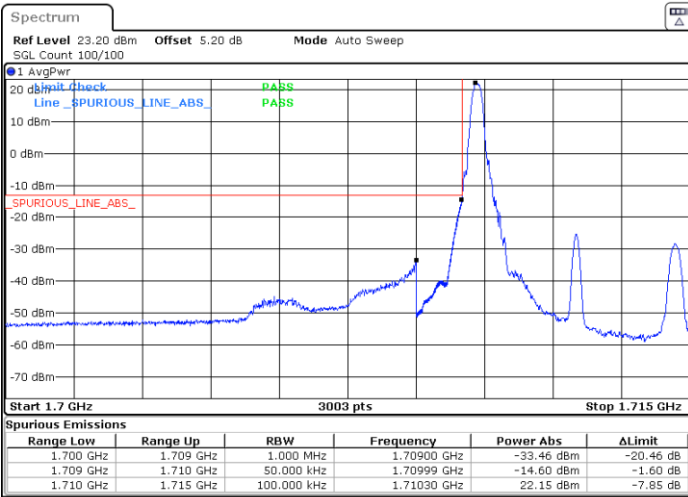


Conducted Band Edge

FR1 n66 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

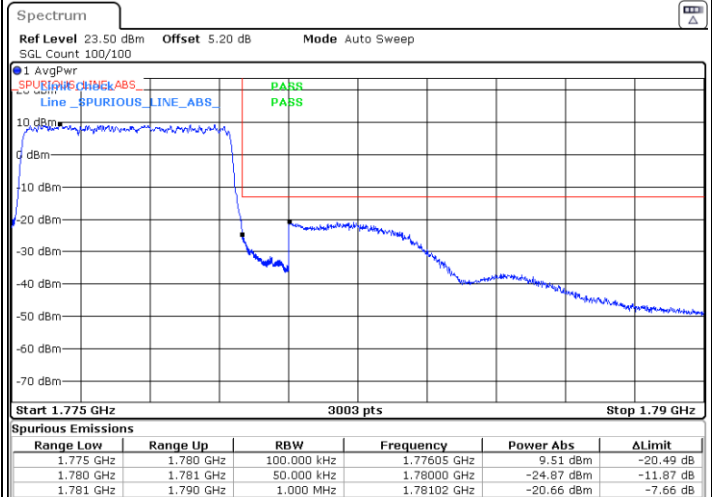
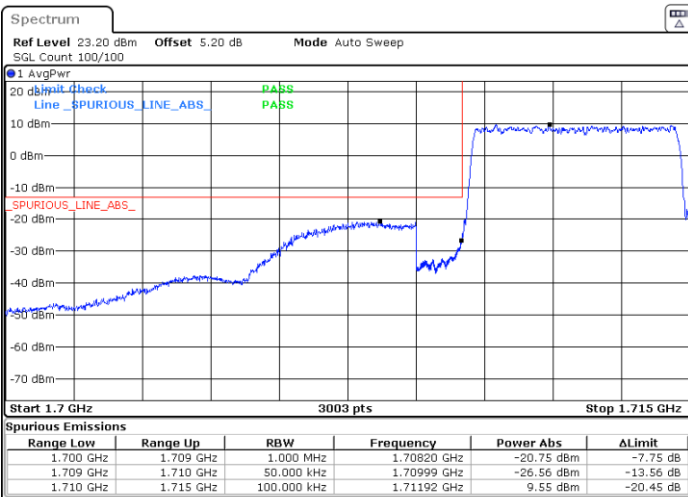


Date: 21.JUN.2022 22:39:40

Date: 21.JUN.2022 22:46:52

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.JUN.2022 22:40:34

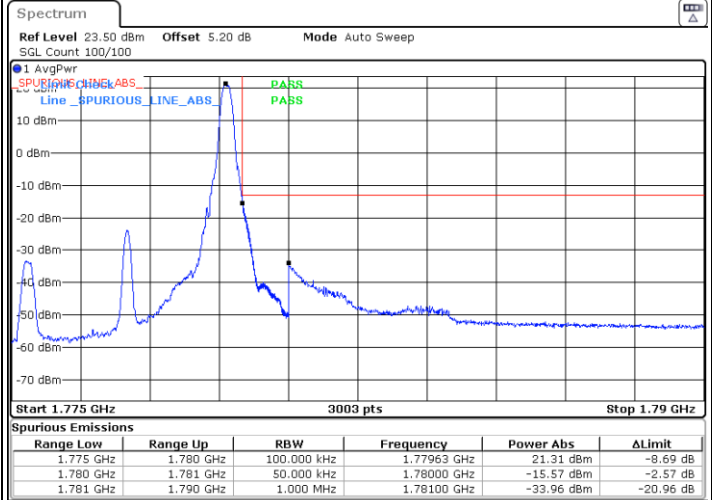
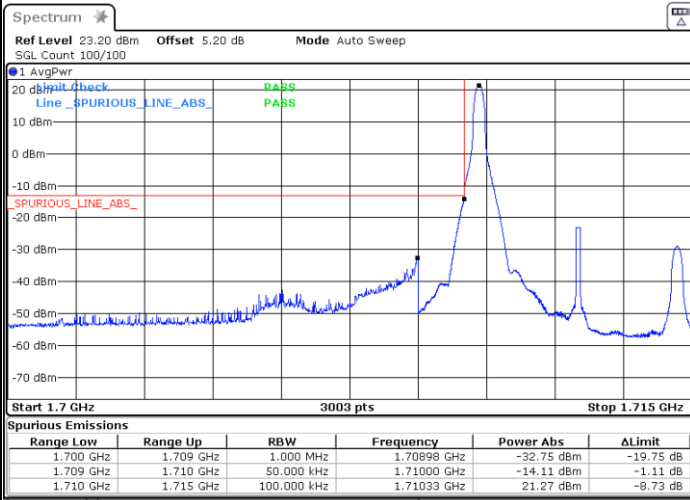
Date: 21.JUN.2022 22:48:12



FR1 n66 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

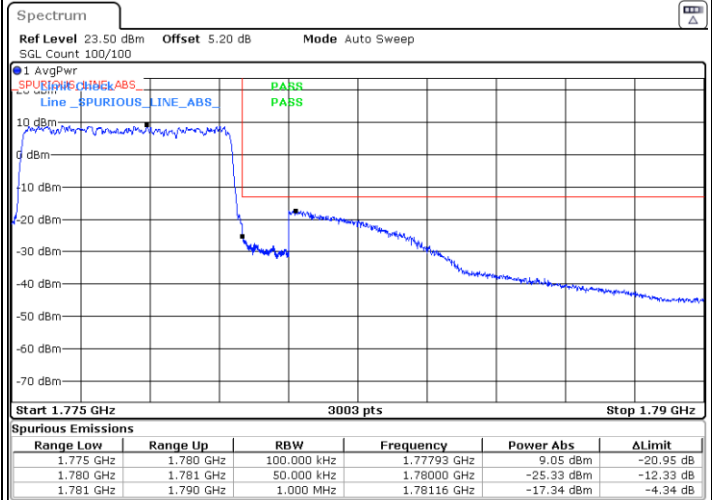
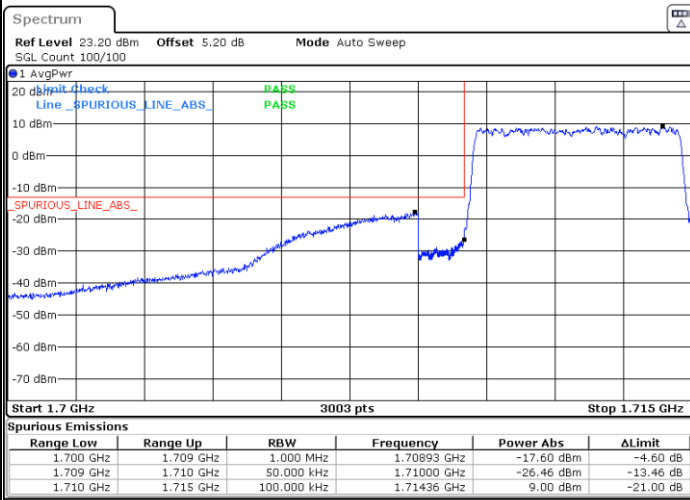


Date: 21 JUN.2022 22:38:56

Date: 21 JUN.2022 22:47:14

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21 JUN.2022 22:41:20

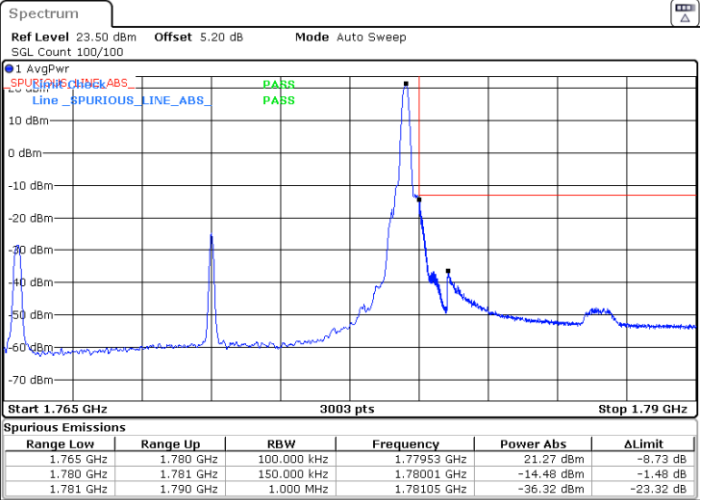
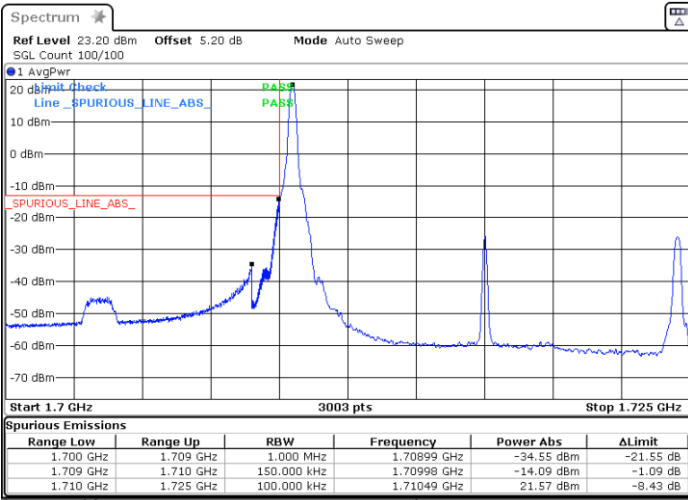
Date: 21 JUN.2022 22:47:40



FR1 n66 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

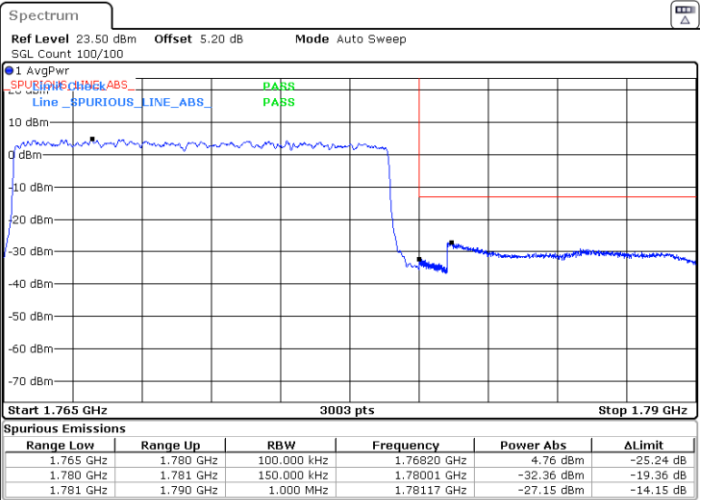
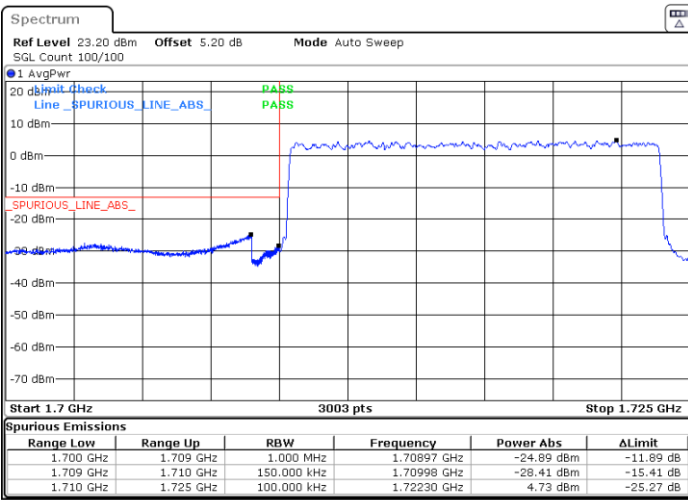


Date: 21.JUN.2022 23:02:08

Date: 21.JUN.2022 23:11:12

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.JUN.2022 23:04:03

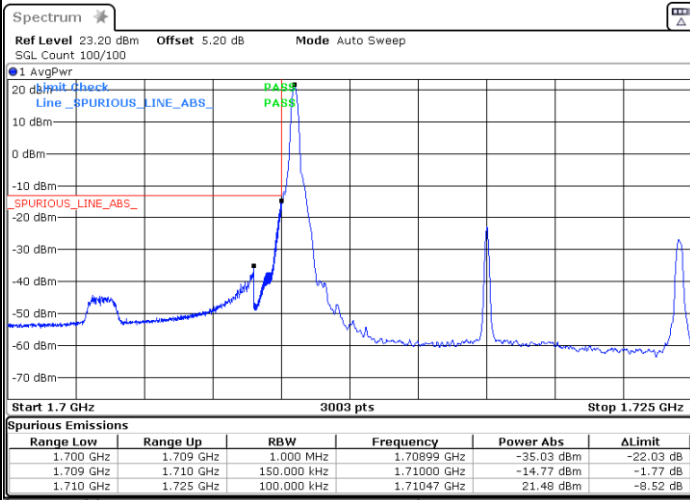
Date: 21.JUN.2022 23:12:05



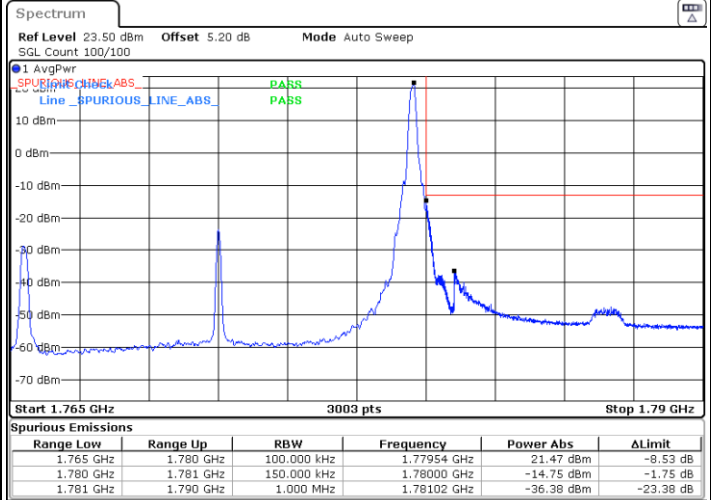
FR1 n66 / 15MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



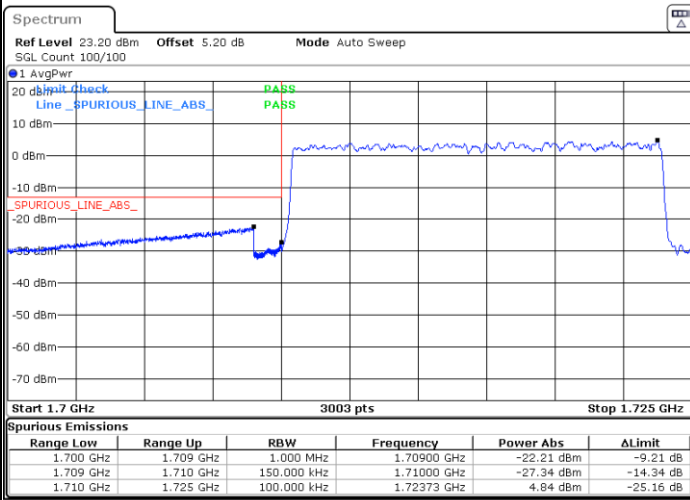
Date: 21.JUN.2022 23:02:34



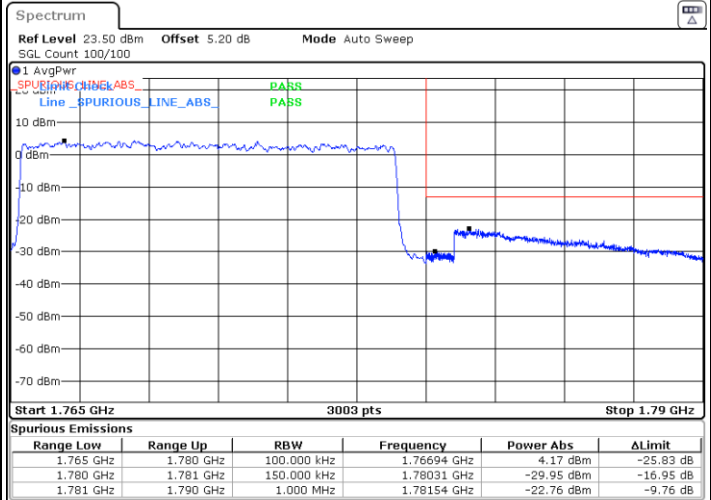
Date: 21.JUN.2022 23:11:27

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.JUN.2022 23:04:19



Date: 21.JUN.2022 23:11:48