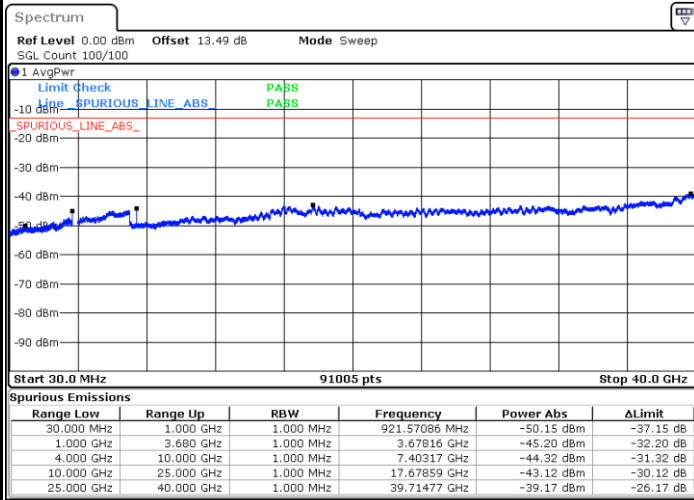




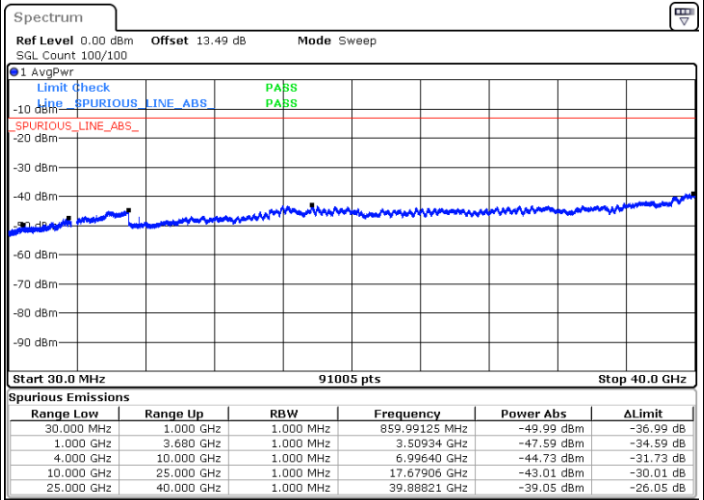
FR1 n77 / 50MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

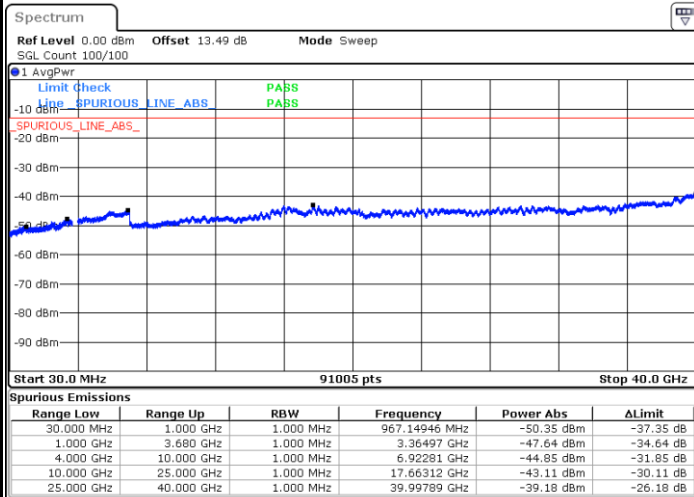


Date: 10.FEB.2022 18:41:42



Date: 10.FEB.2022 18:43:06

Highest Channel / 1RB1



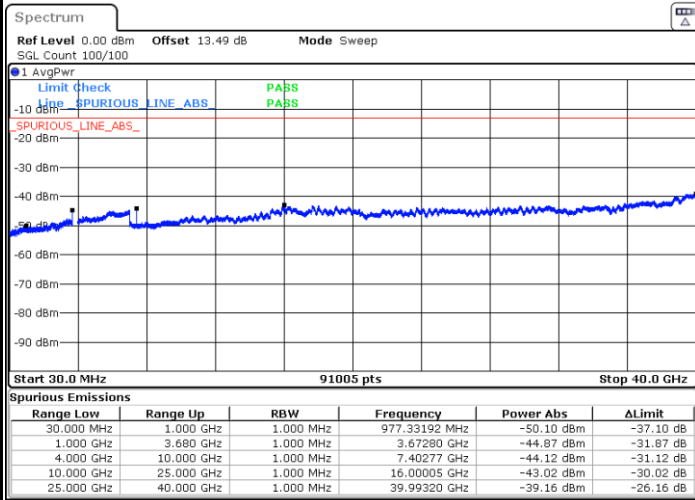
Date: 10.FEB.2022 18:46:27



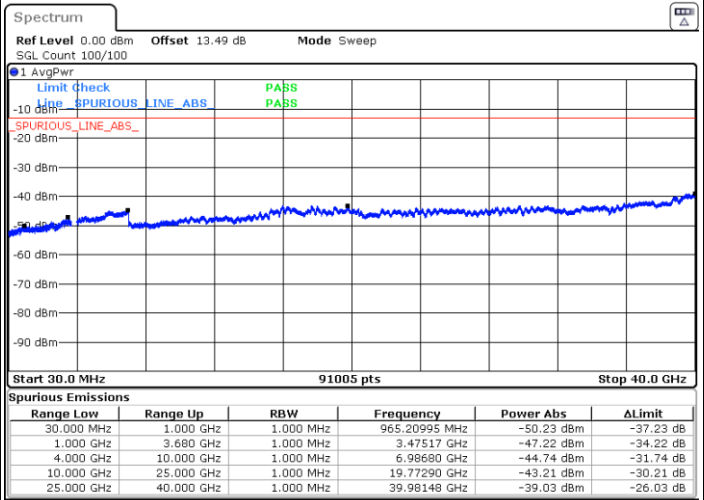
FR1 n77 / 60MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

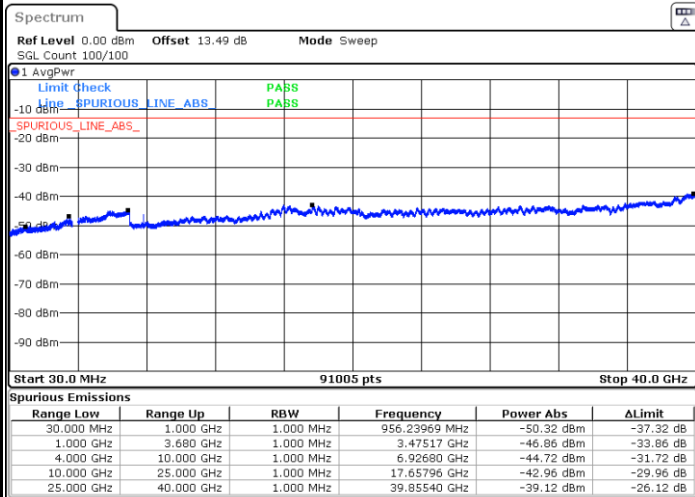


Date: 6.FEB.2022 19:14:37



Date: 6.FEB.2022 19:17:02

Highest Channel / 1RB1



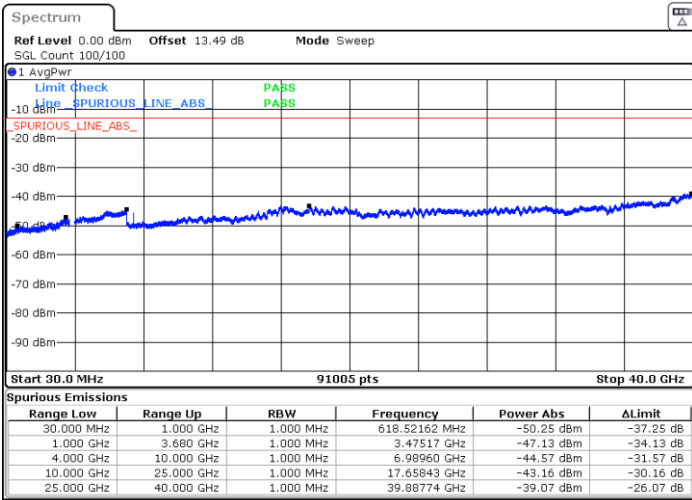
Date: 6.FEB.2022 19:18:32



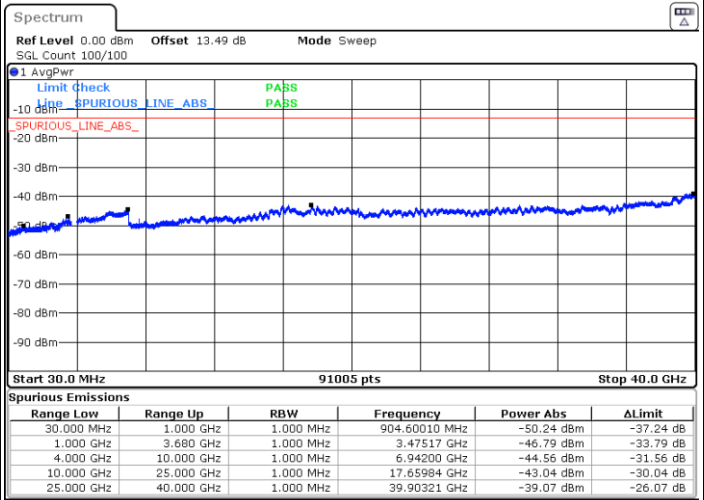
FR1 n77 / 70MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

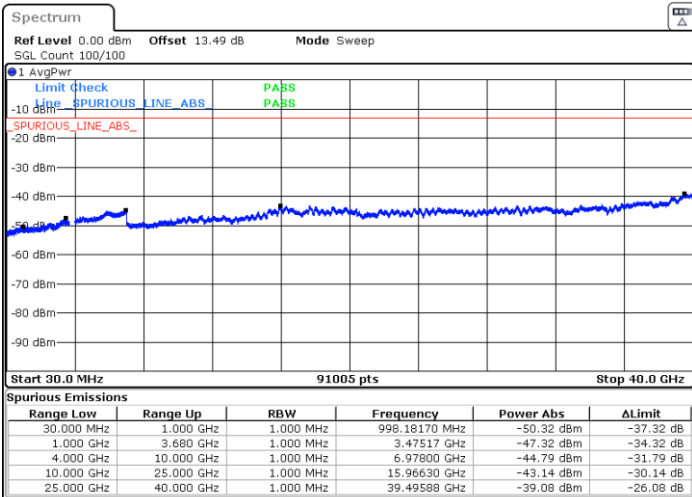


Date: 10.FEB.2022 22:32:26



Date: 10.FEB.2022 22:31:10

Highest Channel / 1RB1



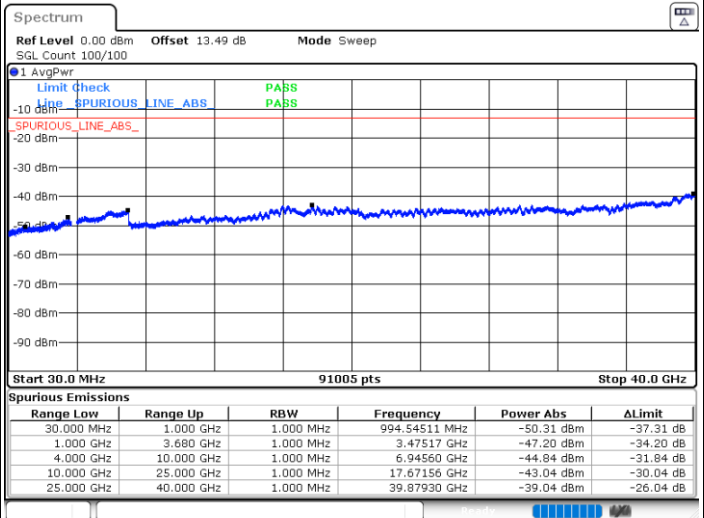
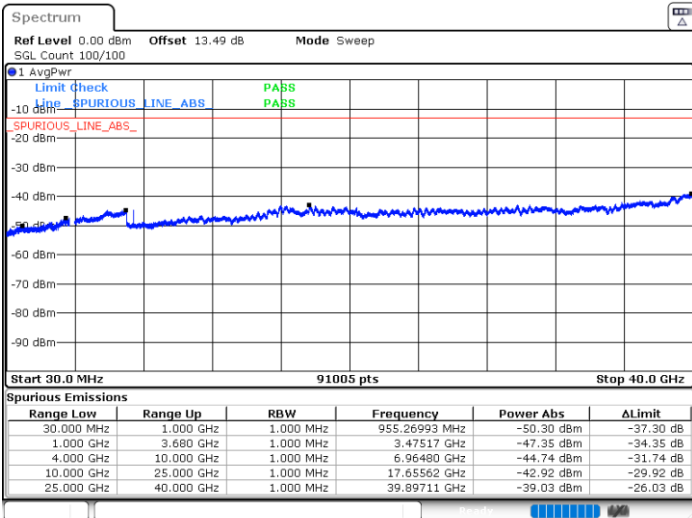
Date: 10.FEB.2022 22:29:50



FR1 n77 / 80MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

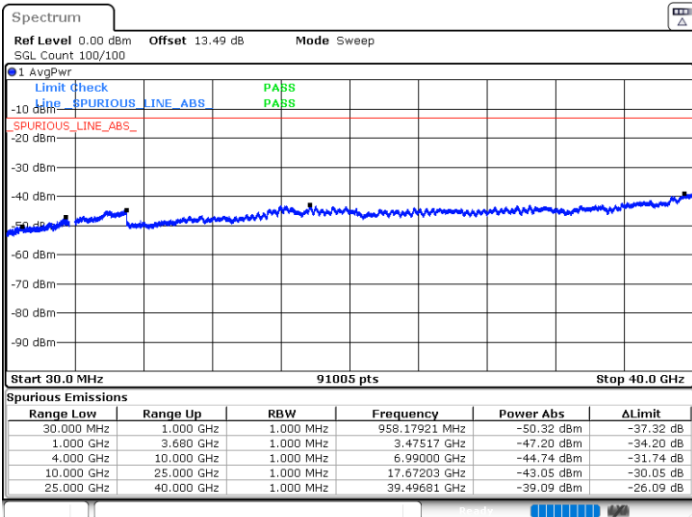
Middle Channel / 1RB1



Date: 7.FEB.2022 10:06:41

Date: 7.FEB.2022 10:08:02

Highest Channel / 1RB1



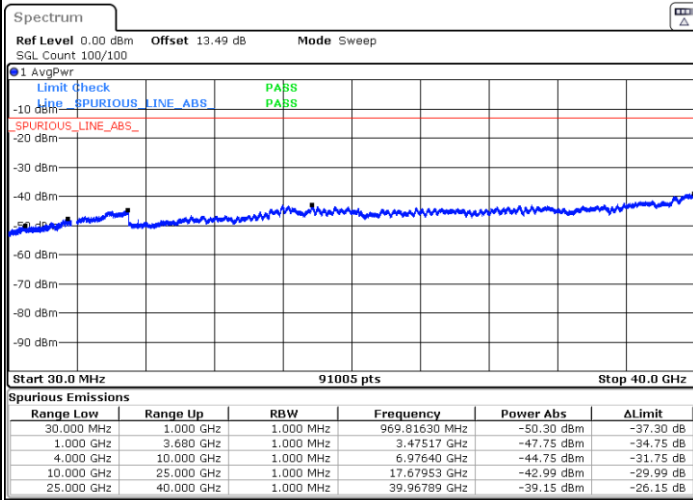
Date: 7.FEB.2022 10:09:48



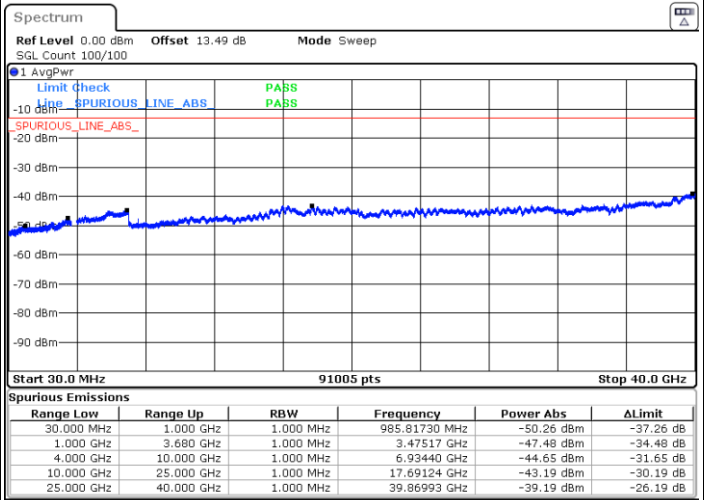
FR1 n77 / 90MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

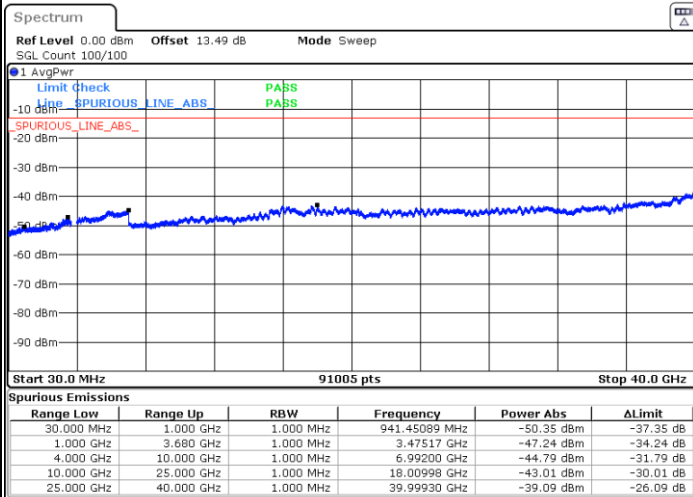


Date: 10.FEB.2022 21:54:09



Date: 10.FEB.2022 21:52:22

Highest Channel / 1RB1



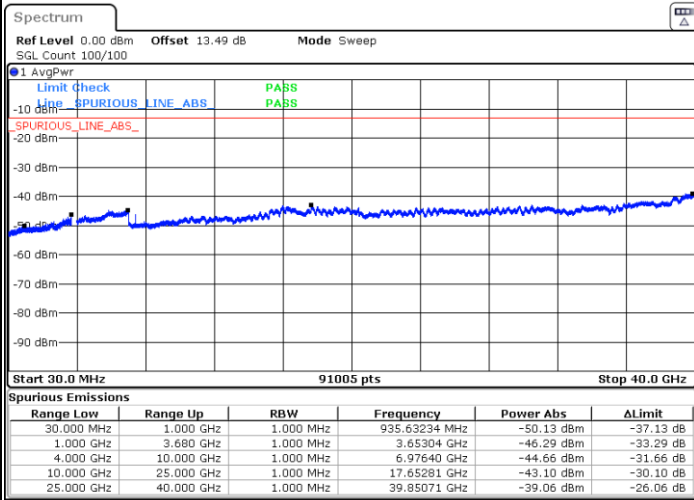
Date: 10.FEB.2022 21:44:17



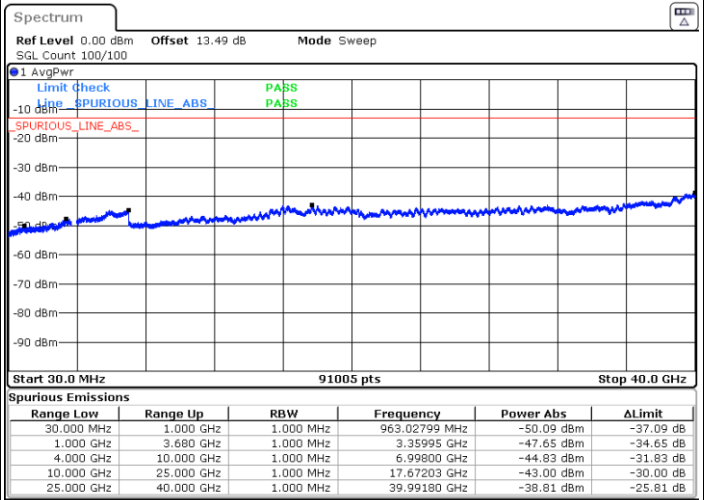
FR1 n77 / 100MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

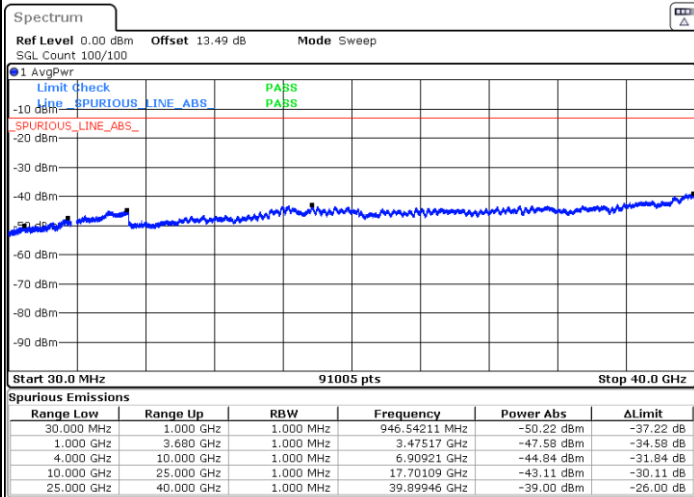


Date: 7.FEB.2022 10:49:40



Date: 7.FEB.2022 10:51:45

Highest Channel / 1RB1



Date: 7.FEB.2022 10:53:16



Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 100MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0029	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0021	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0010	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0041	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0021	
20	Battery End Point	0.0045	

Note:

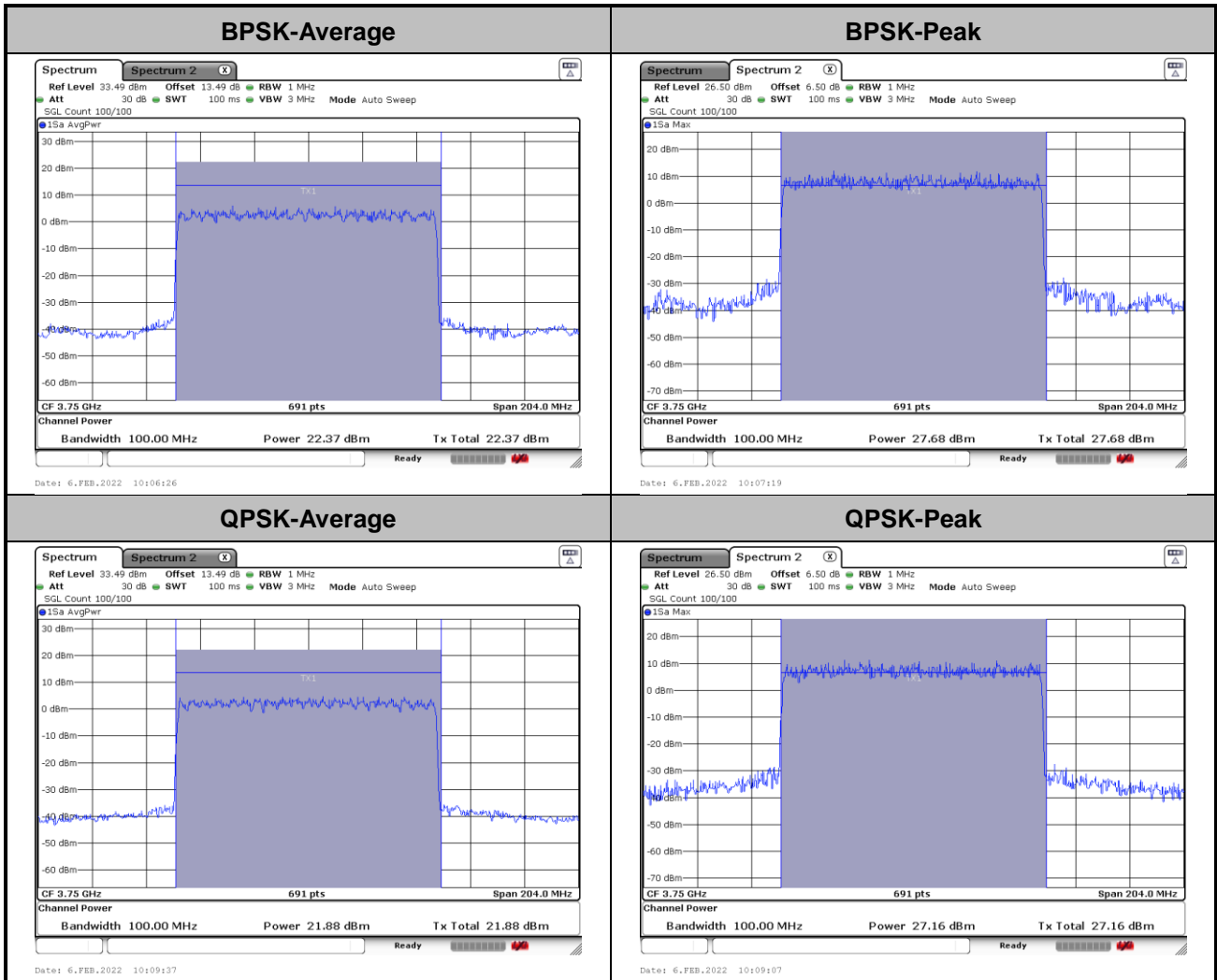
1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# FR1 n78

## Peak-to-Average Ratio

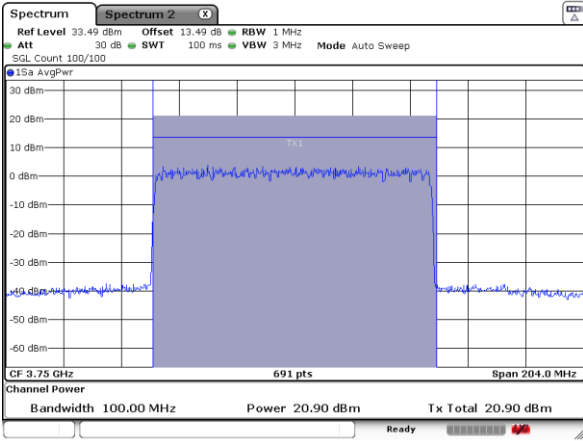
Mode	FR1 n78 / 100MHz / DFT-S OFDM				
Mod.	100M				Limit: 13dB
RB Size	BPSK	QPSK	16QAM	64QAM	Result
Middle CH	5.31	5.28	5.31	5.44	PASS
RB Size	256QAM				
Middle CH	5.36				



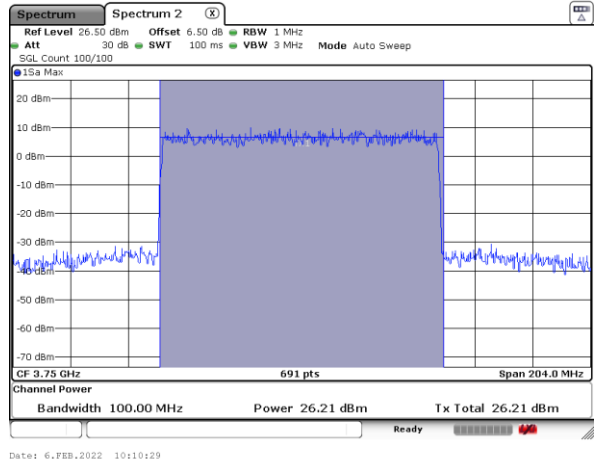




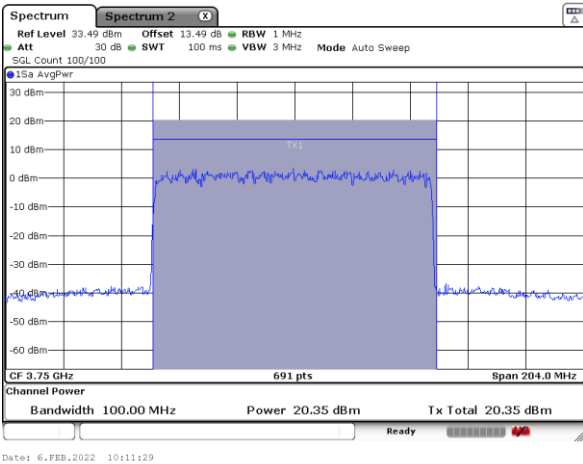
16QAM-Average



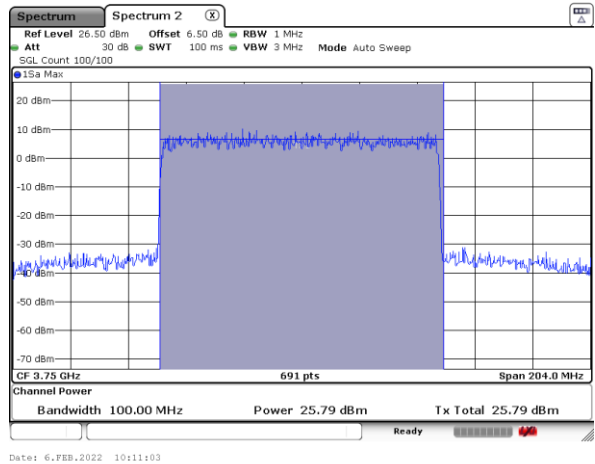
16QAM-Peak



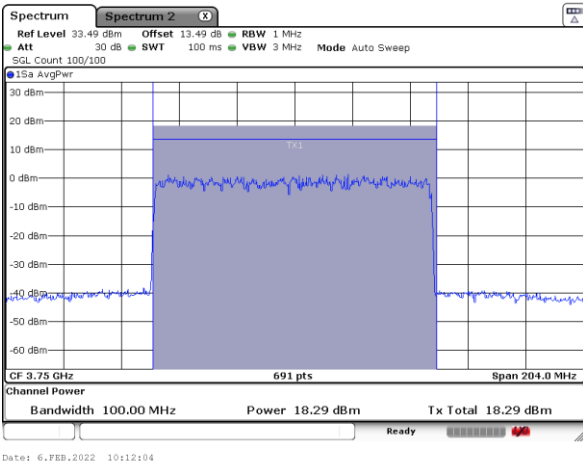
64QAM-Average



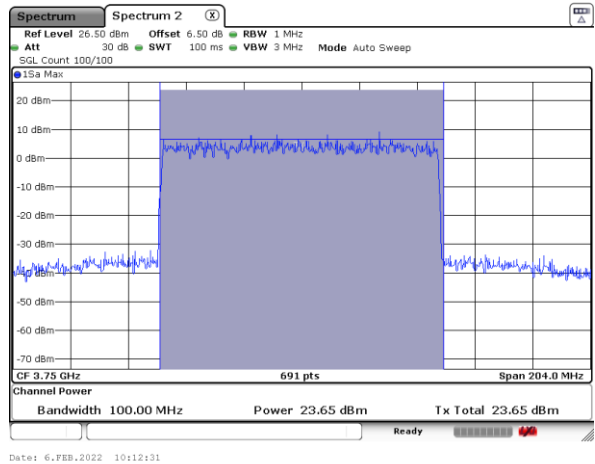
64QAM-Peak



256QAM-Average



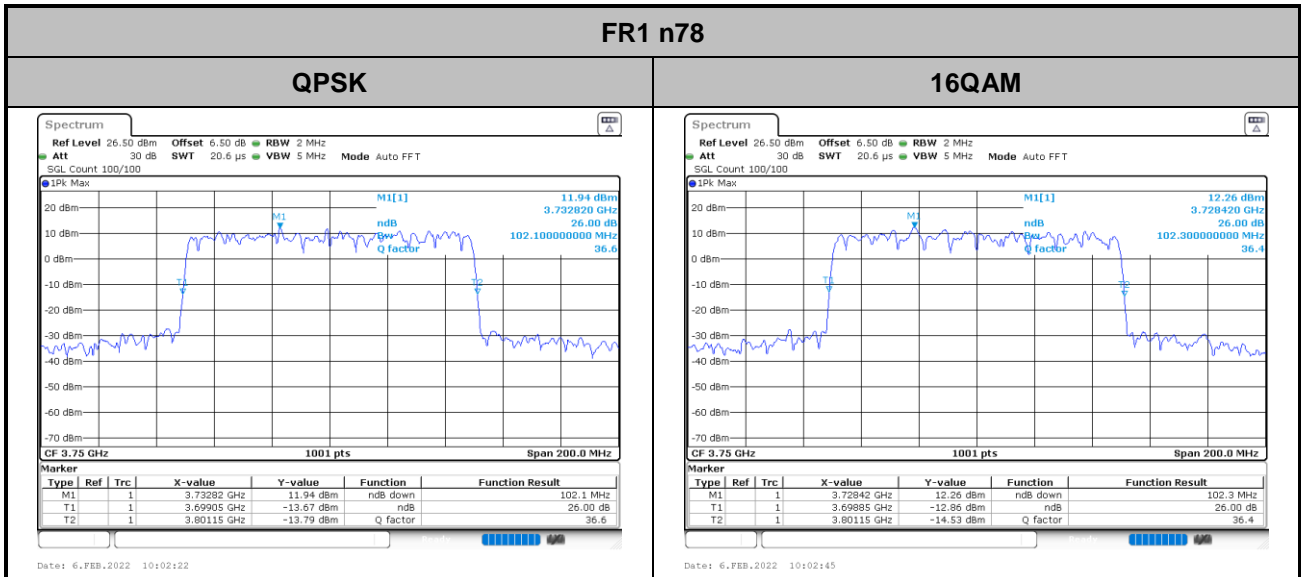
256QAM-Peak





## 26dB Bandwidth

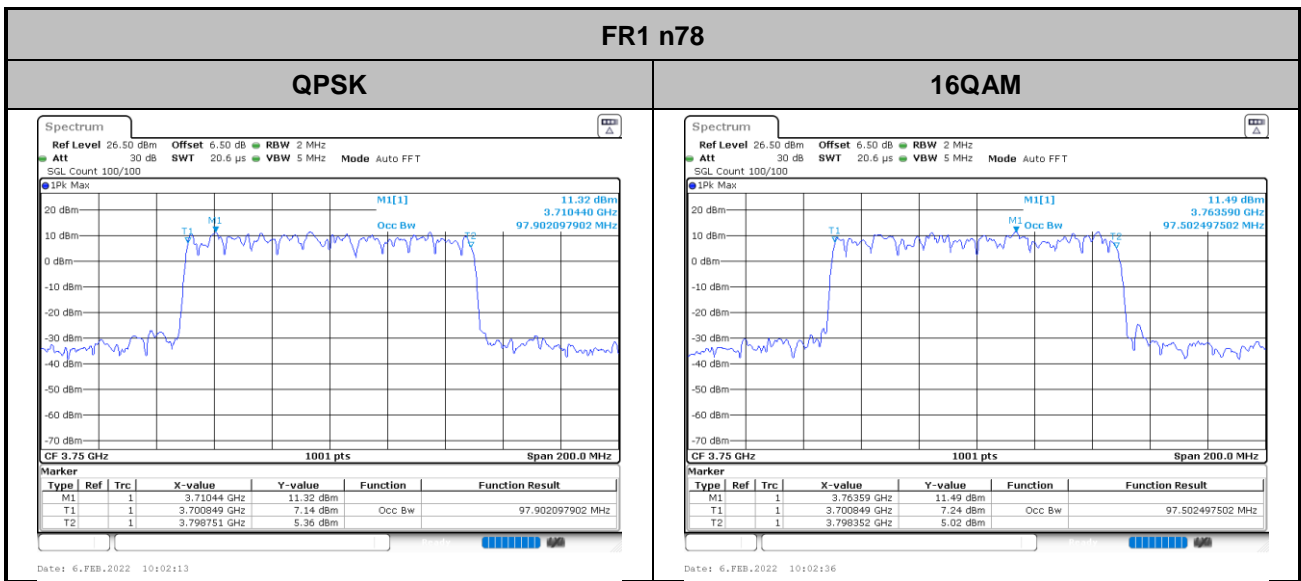
Mode	FR1 n78 : 26dB BW(MHz) / DFT-S OFDM	
BW	100MHz	
Mod.	QPSK	16QAM
Middle CH	102.1	102.3





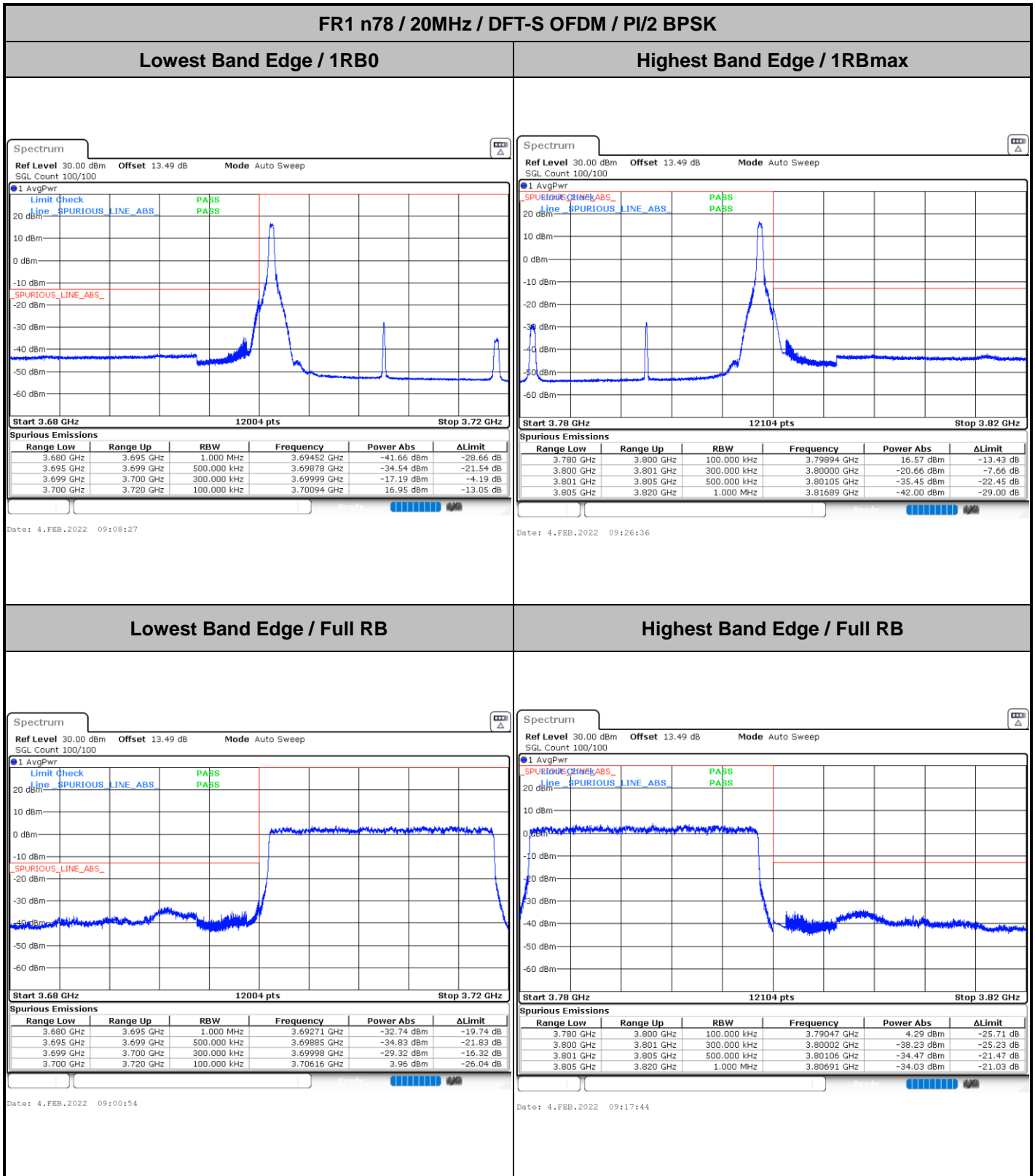
# Occupied Bandwidth

Mode	FR1 n78: OB BW(MHz) / DFT-S OFDM	
BW	100MHz	
Mod.	QPSK	16QAM
Middle CH	97.90	97.50





# Conducted Band Edge

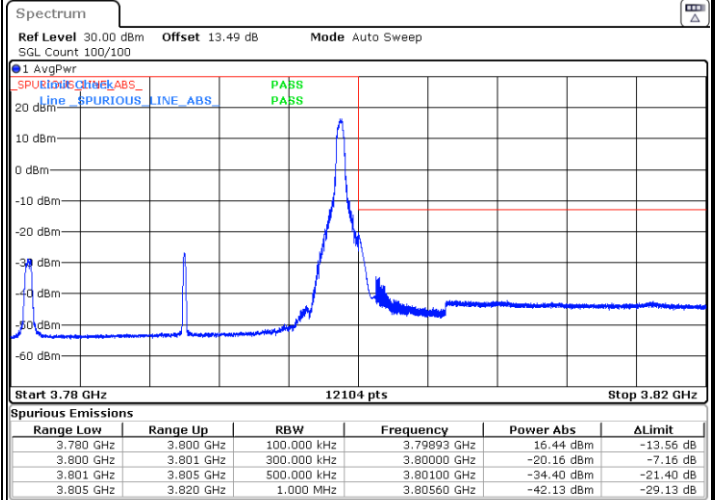
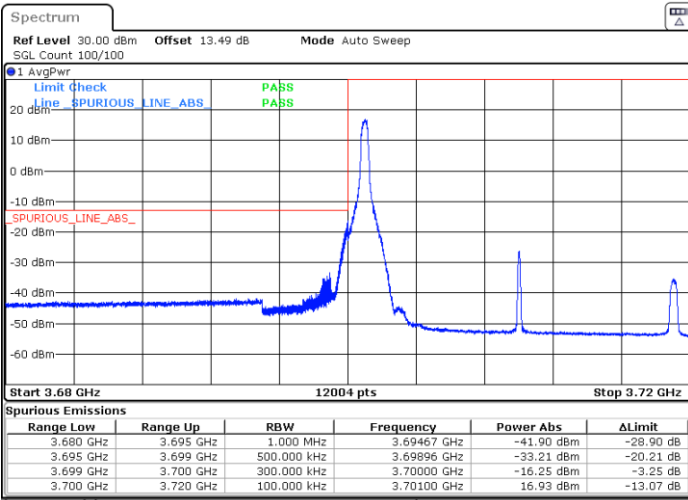




FR1 n78 / 20MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

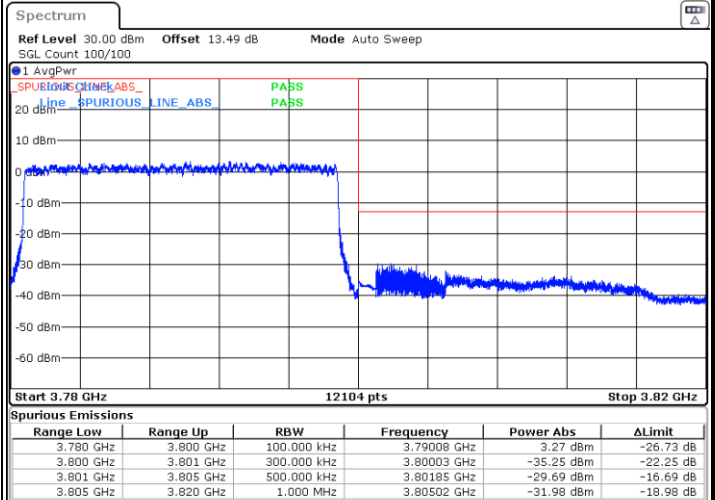
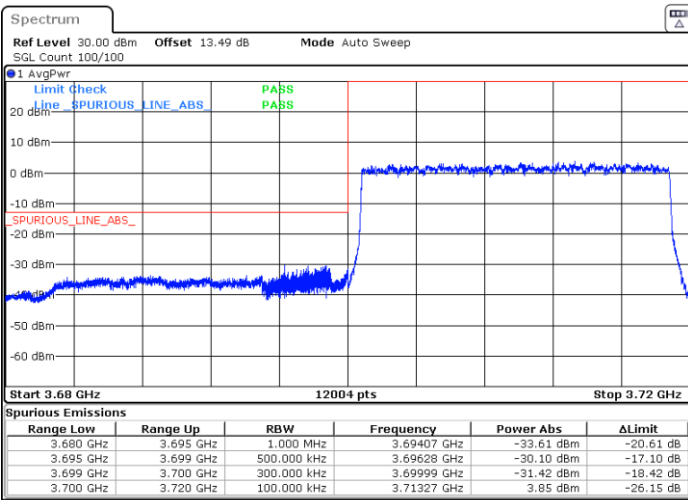


Date: 4.FEB.2022 09:07:33

Date: 4.FEB.2022 09:25:52

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 4.FEB.2022 09:01:36

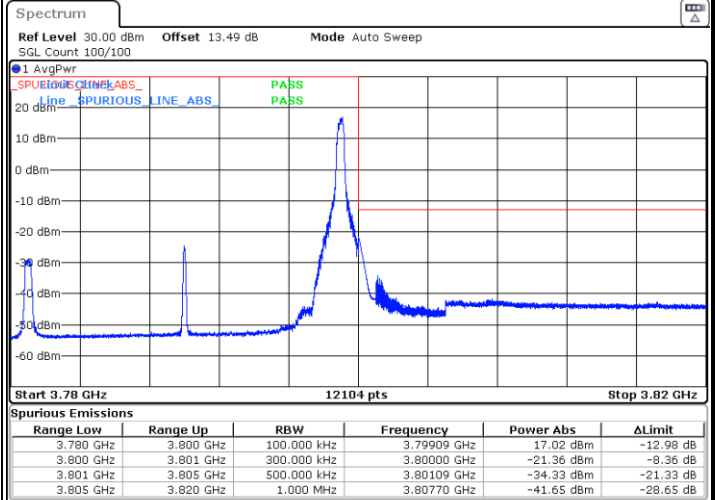
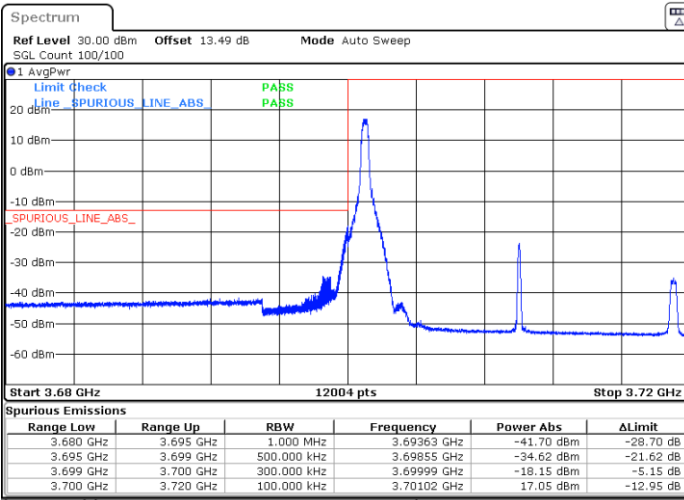
Date: 4.FEB.2022 09:19:34



FR1 n78 / 20MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

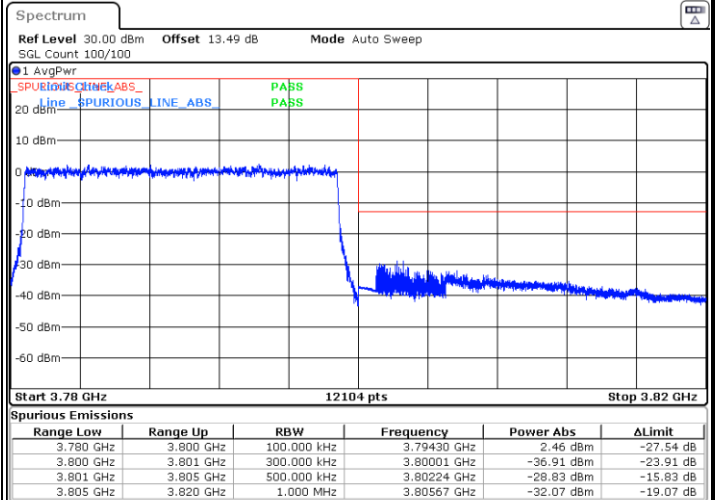
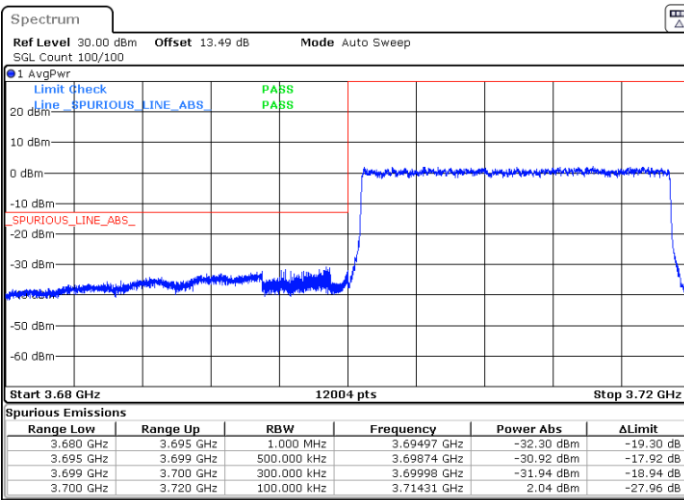


Date: 4.FEB.2022 09:06:55

Date: 4.FEB.2022 09:25:14

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



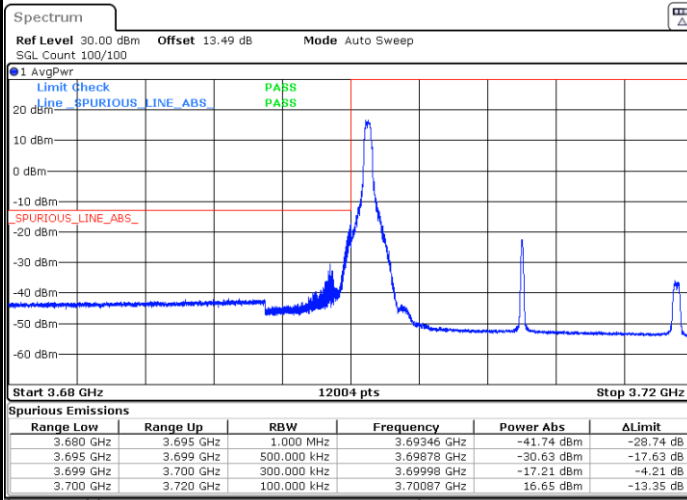
Date: 4.FEB.2022 09:03:02

Date: 4.FEB.2022 09:20:47



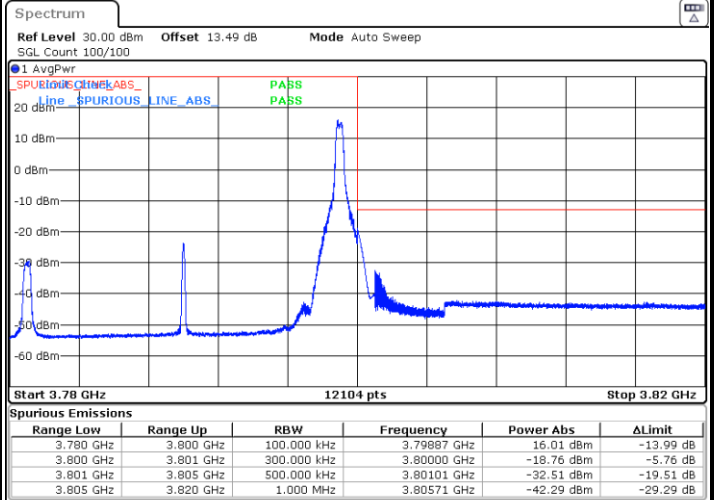
FR1 n78 / 20MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0



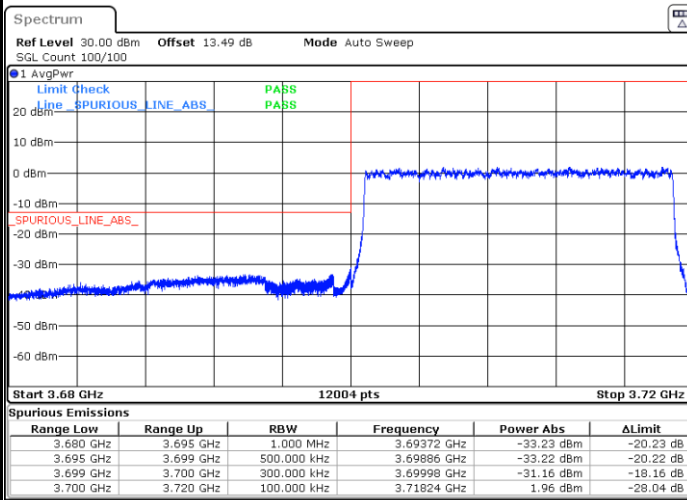
Date: 4.FEB.2022 09:06:16

Highest Band Edge / 1RB24



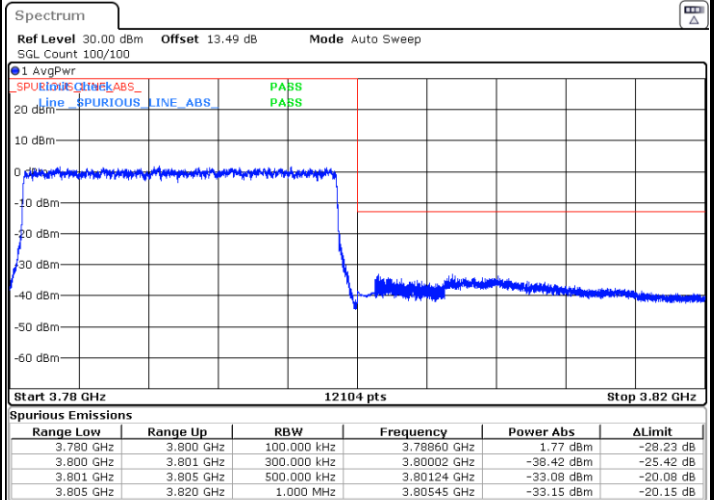
Date: 4.FEB.2022 09:24:33

Lowest Band Edge / Full RB



Date: 4.FEB.2022 09:04:09

Highest Band Edge / Full RB

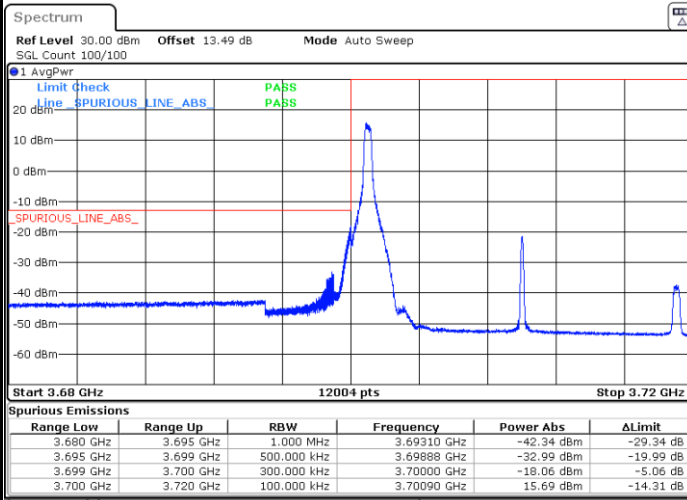


Date: 4.FEB.2022 09:21:33



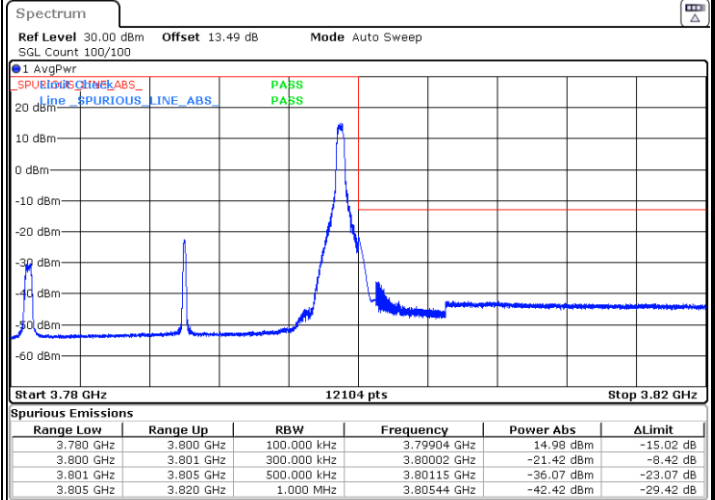
FR1 n78 / 20MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0



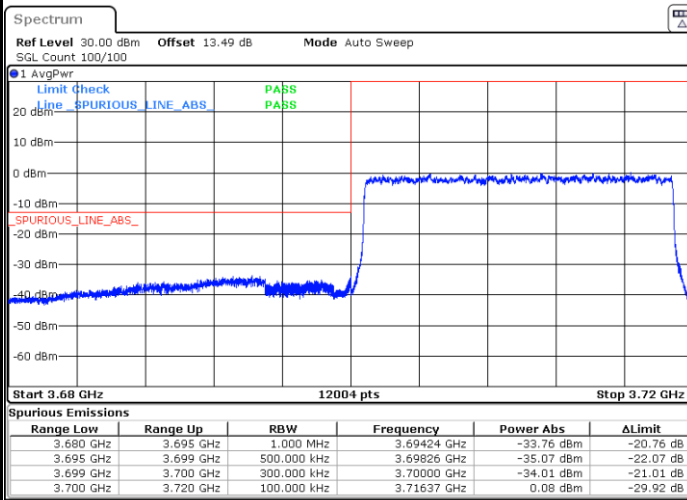
Date: 4.FEB.2022 09:05:36

Highest Band Edge / 1RB24



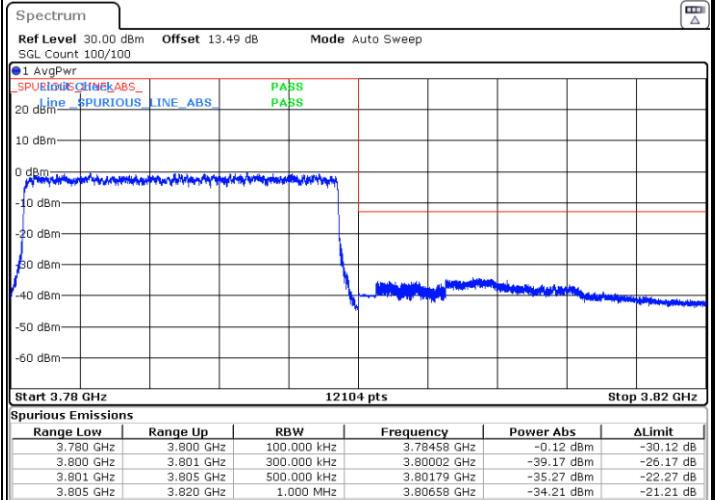
Date: 4.FEB.2022 09:23:54

Lowest Band Edge / Full RB



Date: 4.FEB.2022 09:04:53

Highest Band Edge / Full RB



Date: 4.FEB.2022 09:22:29

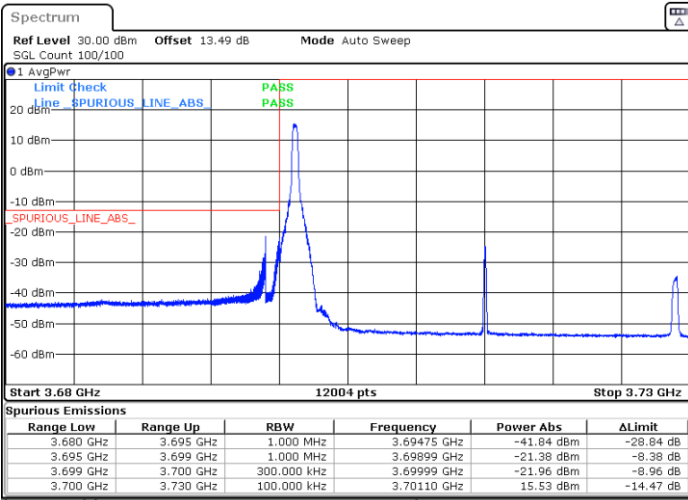




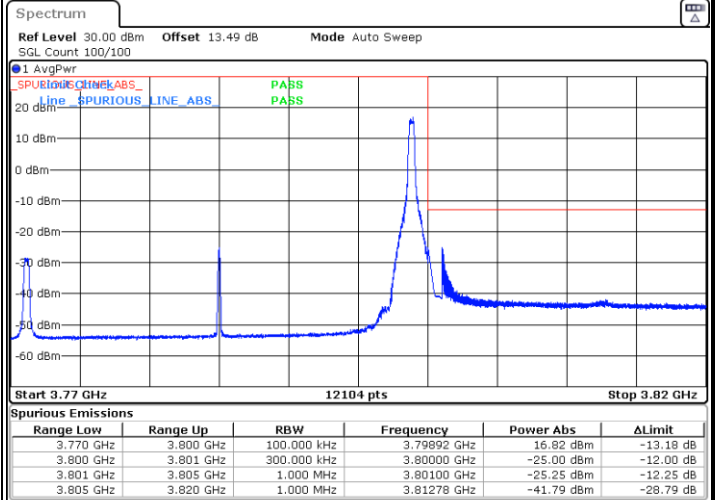
FR1 n78/ 30MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



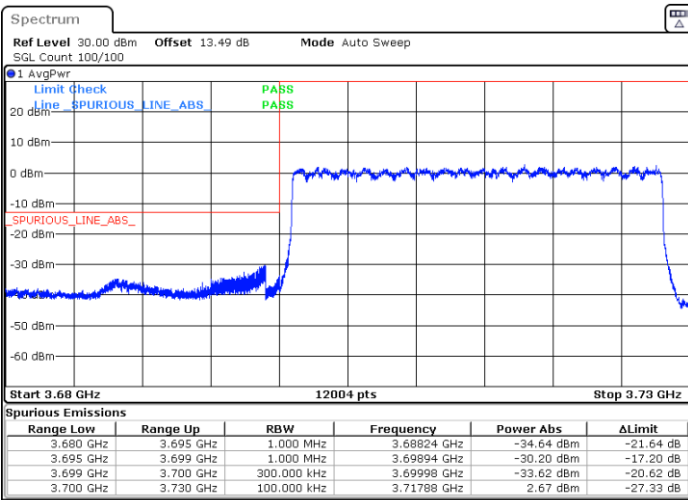
Date: 4.FEB.2022 09:44:47



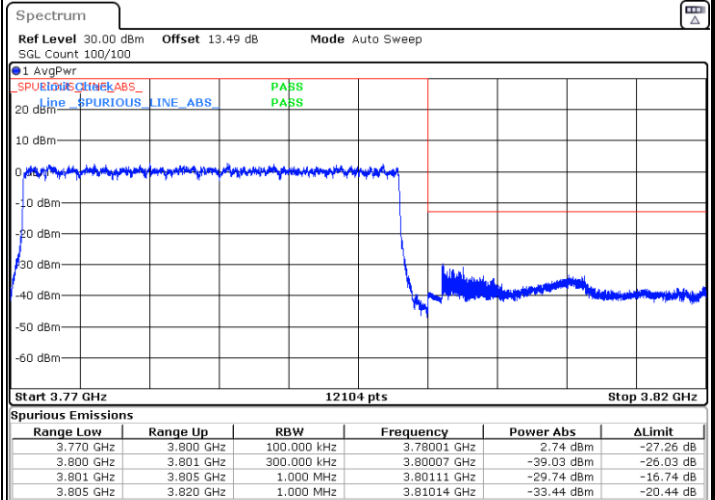
Date: 4.FEB.2022 10:36:23

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 4.FEB.2022 09:37:06



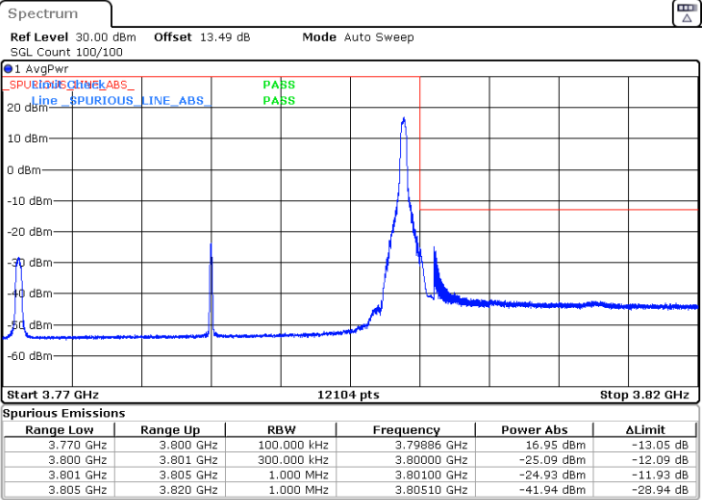
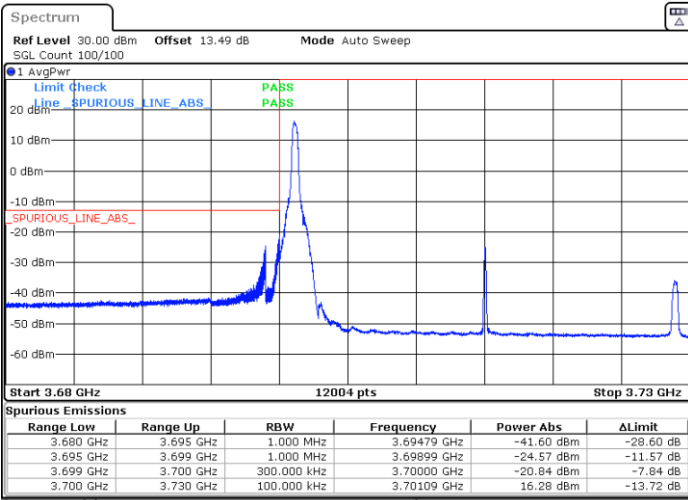
Date: 4.FEB.2022 10:24:10



FR1 n78 / 30MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

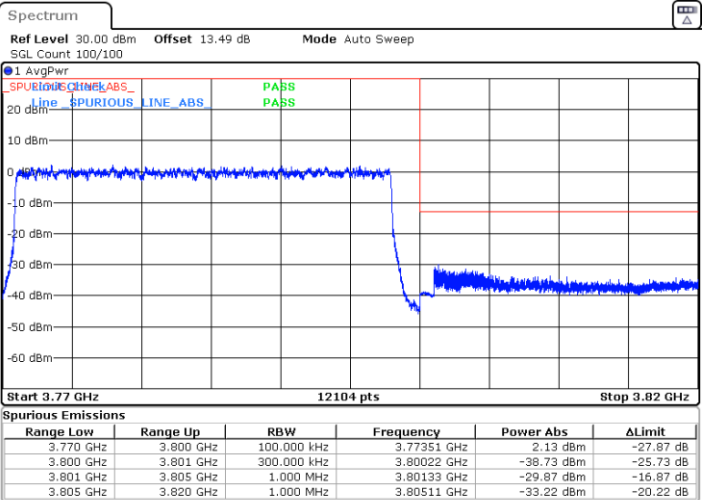
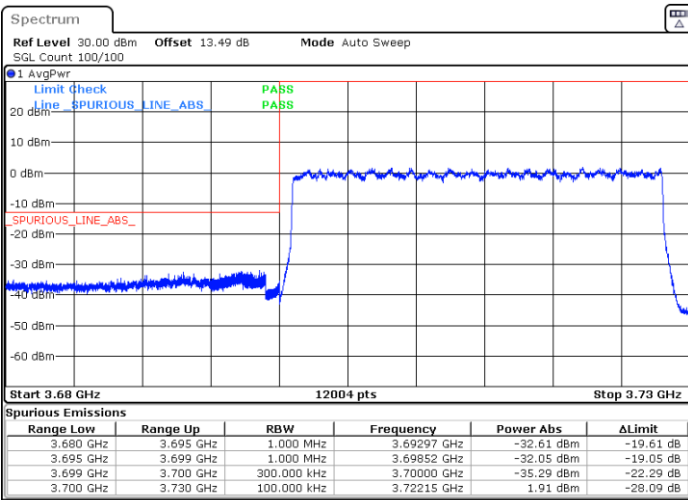


Date: 4.FEB.2022 09:44:05

Date: 4.FEB.2022 10:35:38

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 4.FEB.2022 09:38:33

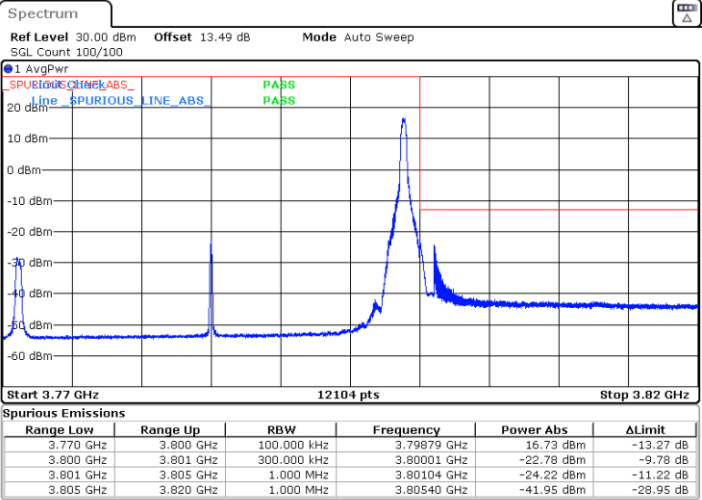
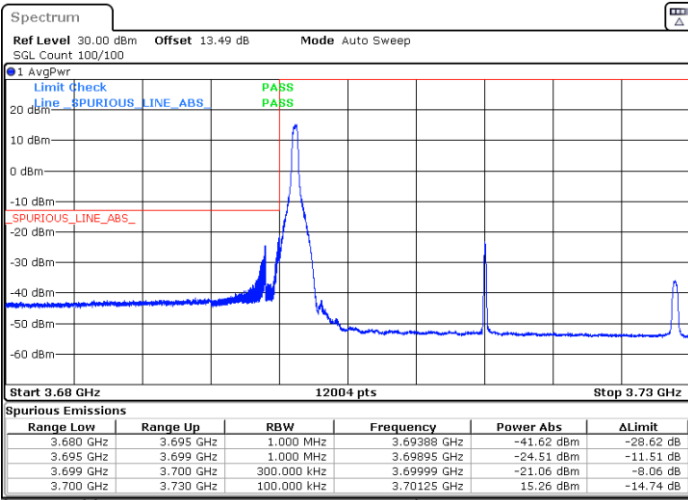
Date: 4.FEB.2022 10:24:52



FR1 n78 / 30MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

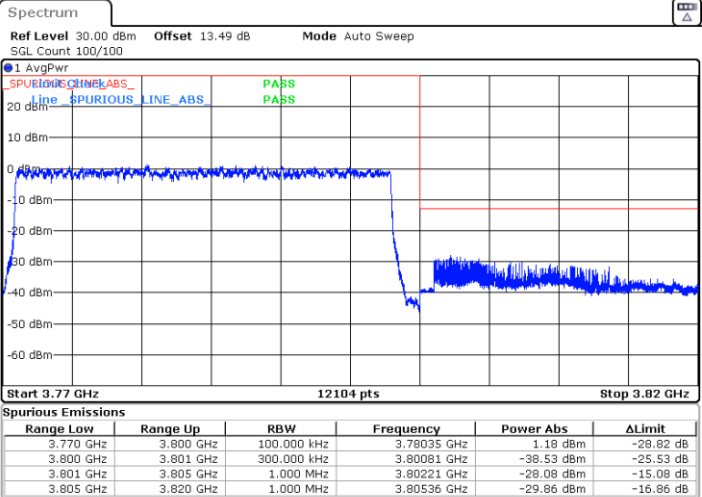
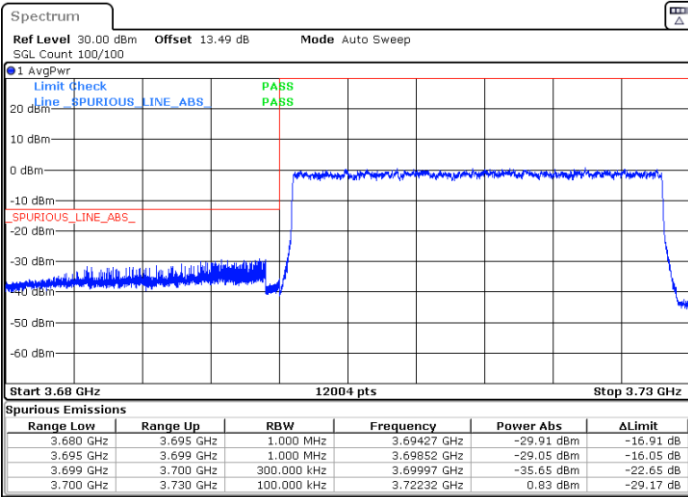


Date: 4.FEB.2022 09:43:24

Date: 4.FEB.2022 10:33:53

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



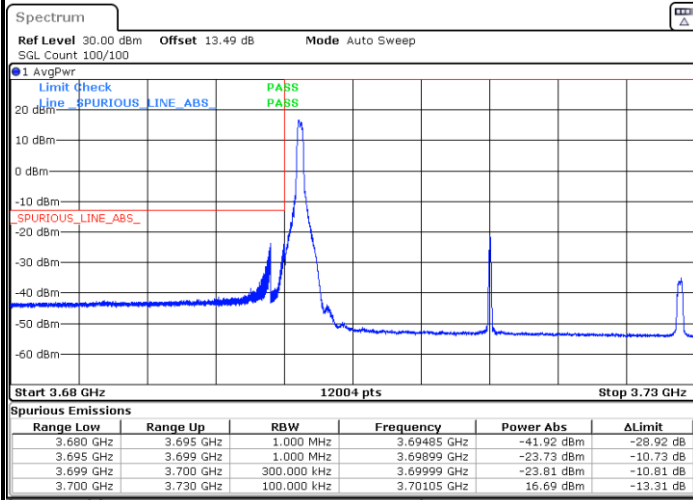
Date: 4.FEB.2022 09:39:28

Date: 4.FEB.2022 10:25:32



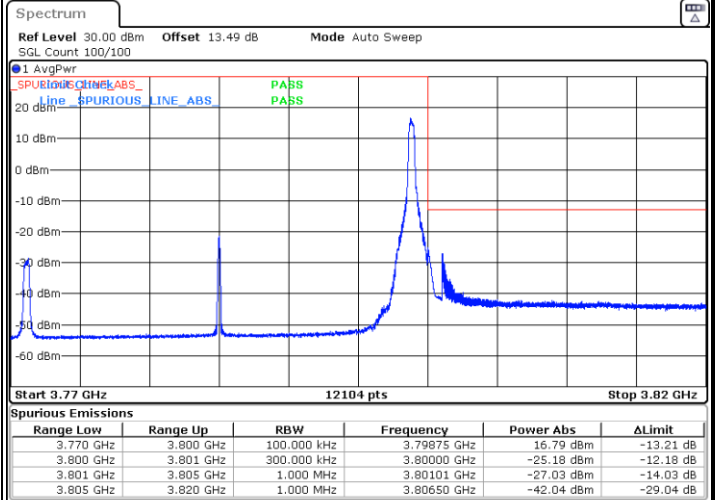
FR1 n78 / 30MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0



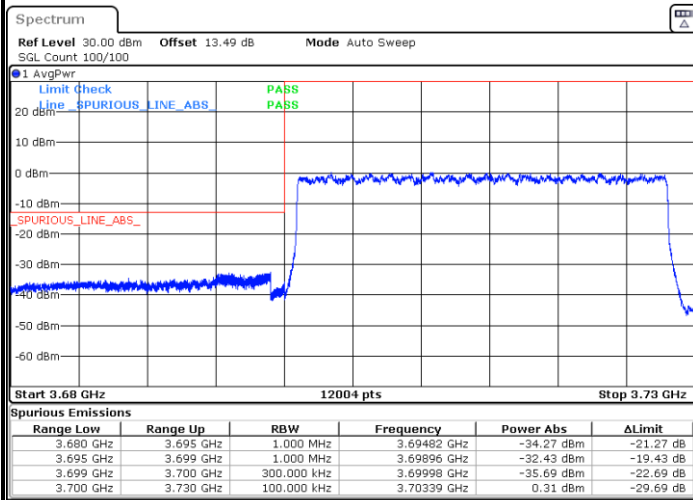
Date: 4.FEB.2022 09:42:46

Highest Band Edge / 1RB24



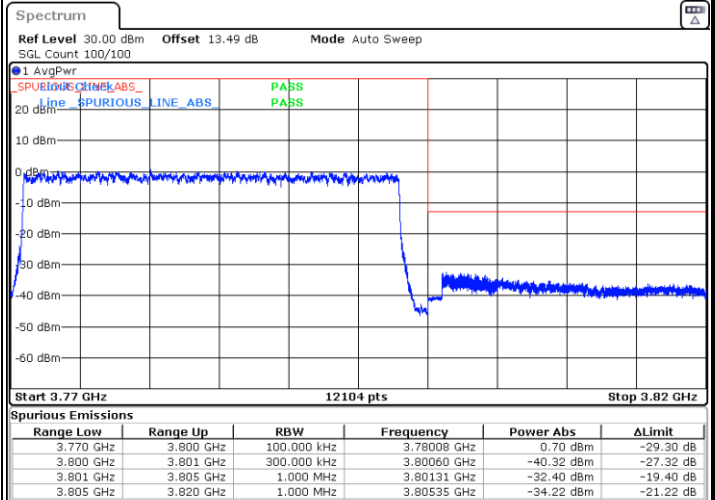
Date: 4.FEB.2022 10:33:12

Lowest Band Edge / Full RB



Date: 4.FEB.2022 09:40:14

Highest Band Edge / Full RB

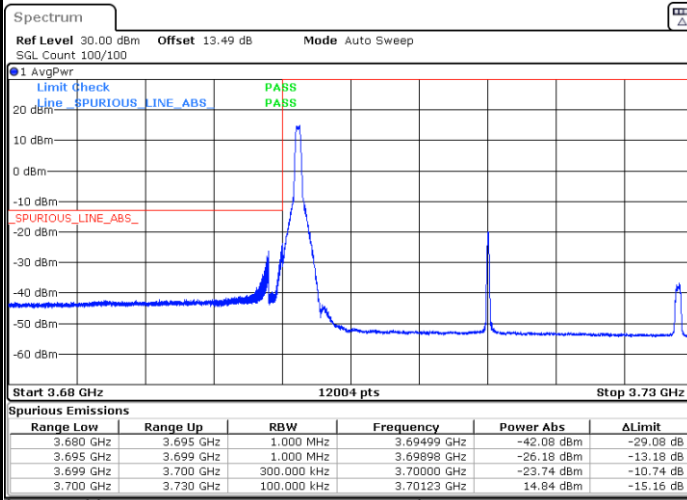


Date: 4.FEB.2022 10:26:24



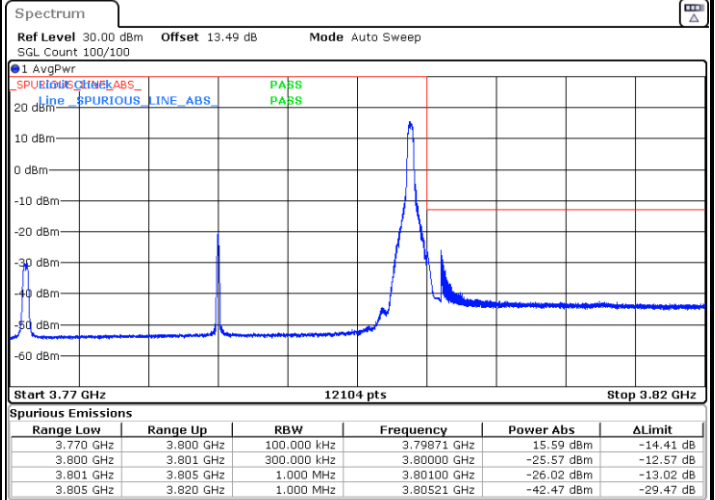
FR1 n78 / 30MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0



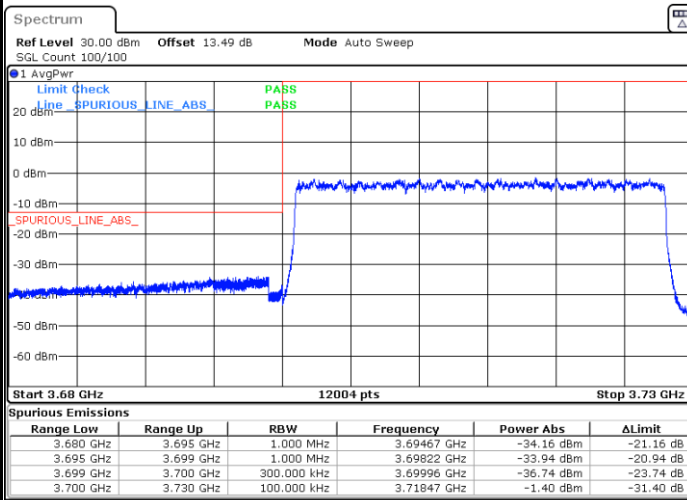
Date: 4.FEB.2022 09:42:07

Highest Band Edge / 1RB24



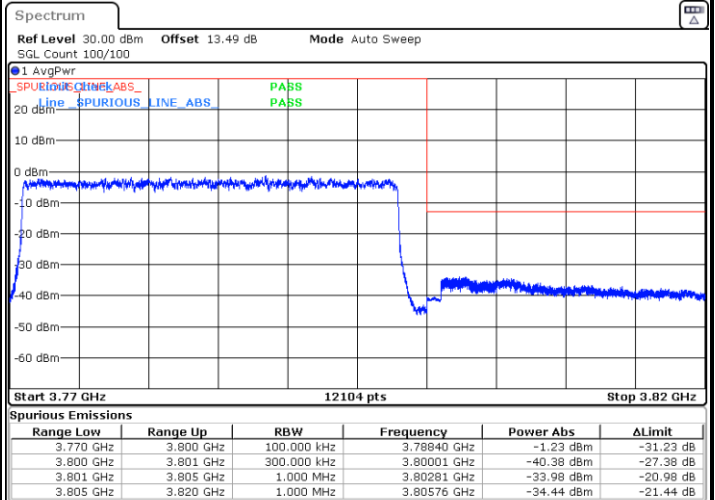
Date: 4.FEB.2022 10:28:41

Lowest Band Edge / Full RB



Date: 4.FEB.2022 09:41:00

Highest Band Edge / Full RB



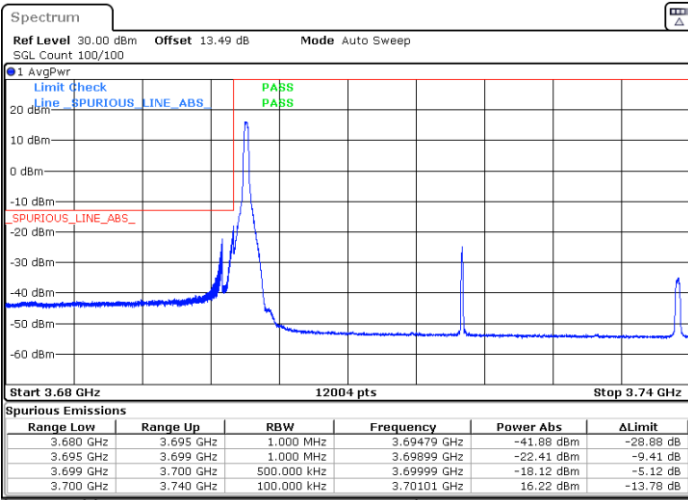
Date: 4.FEB.2022 10:27:08



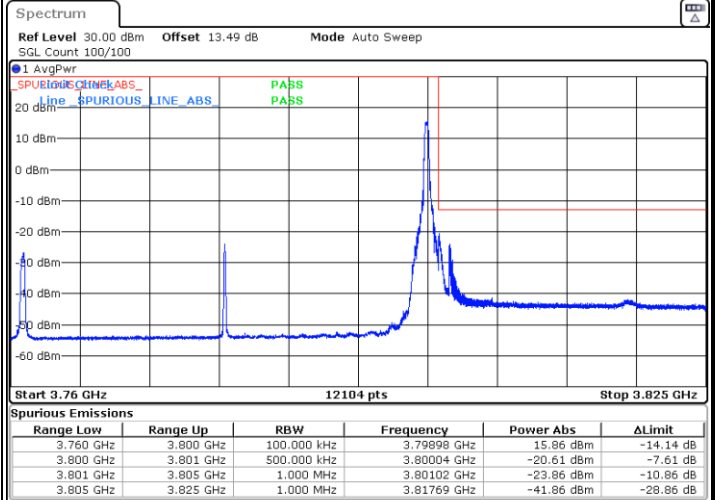
FR1 n78 / 40MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



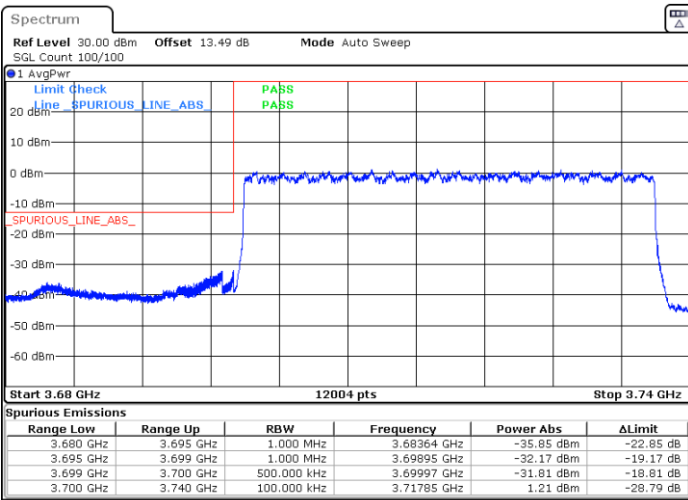
Date: 4.FEB.2022 15:06:34



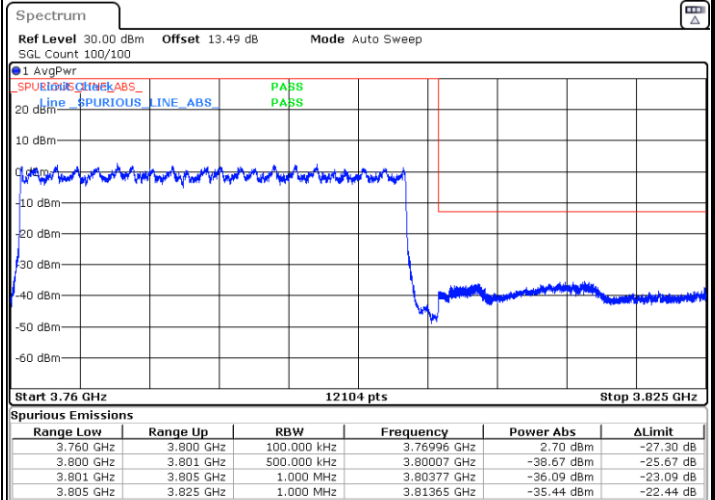
Date: 4.FEB.2022 16:50:40

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 4.FEB.2022 14:56:11



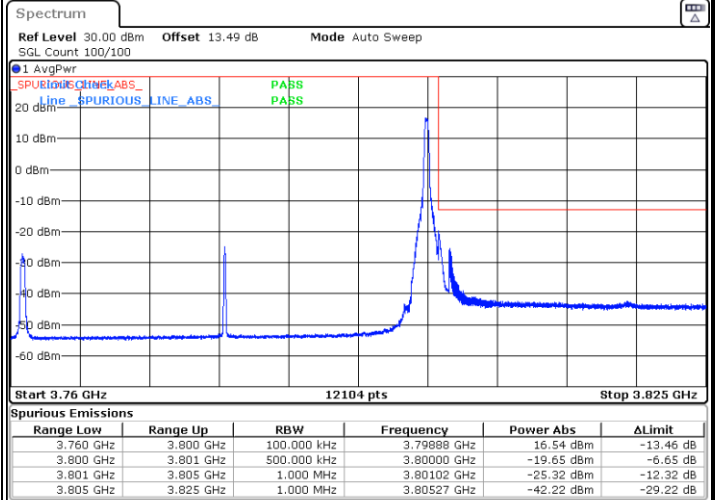
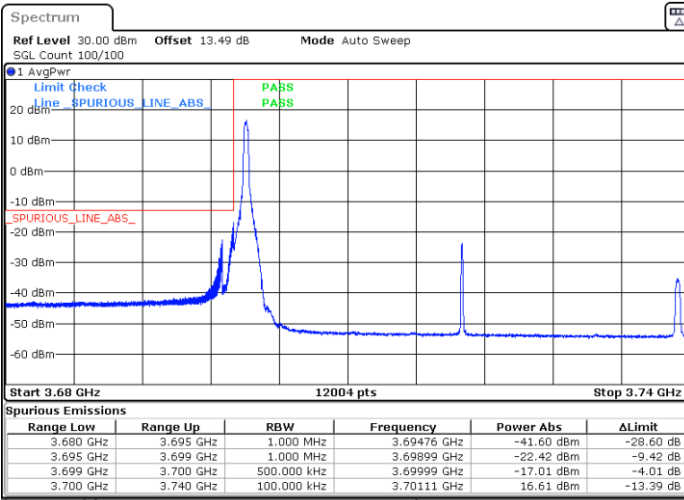
Date: 4.FEB.2022 16:41:14



FR1 n78 / 40MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

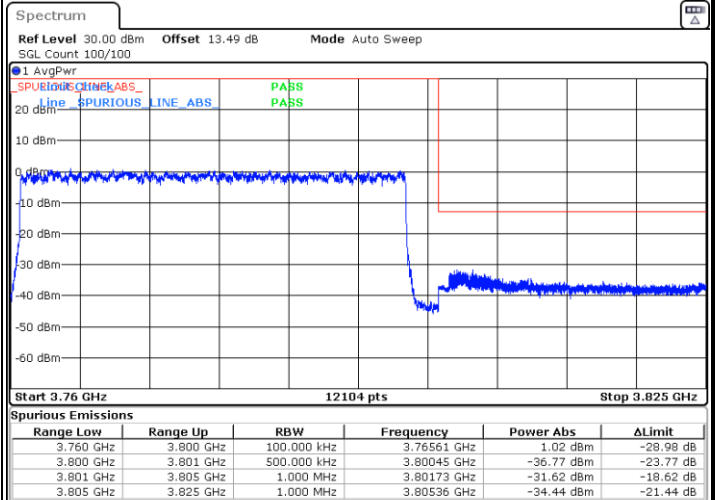
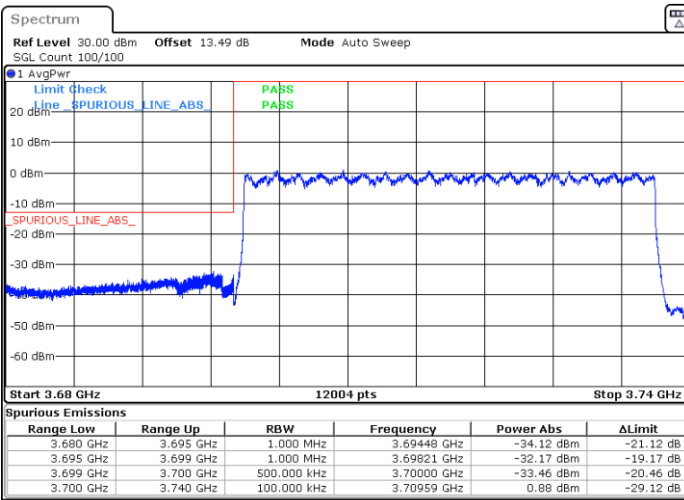


Date: 4.FEB.2022 15:04:59

Date: 4.FEB.2022 16:48:26

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 4.FEB.2022 14:57:43

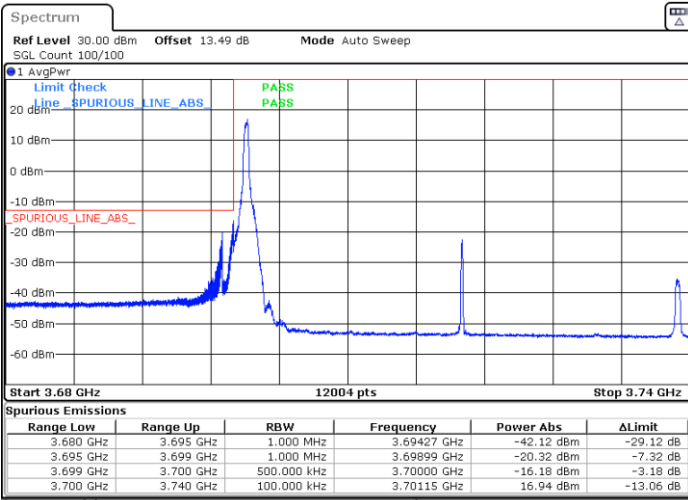
Date: 4.FEB.2022 16:42:21



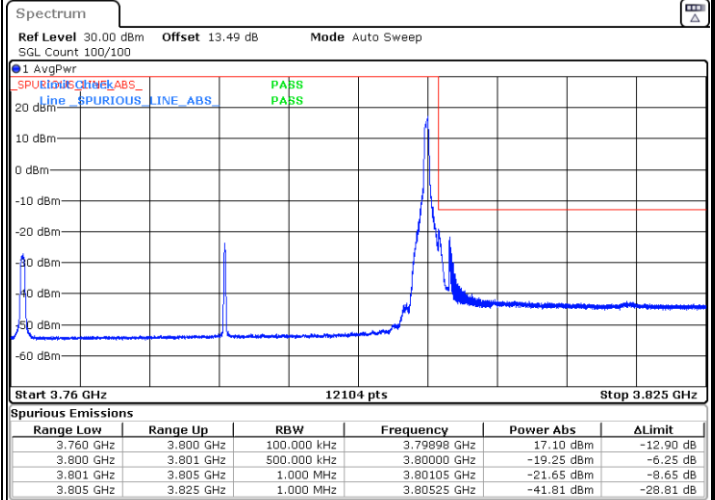
FR1 n78 / 40MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



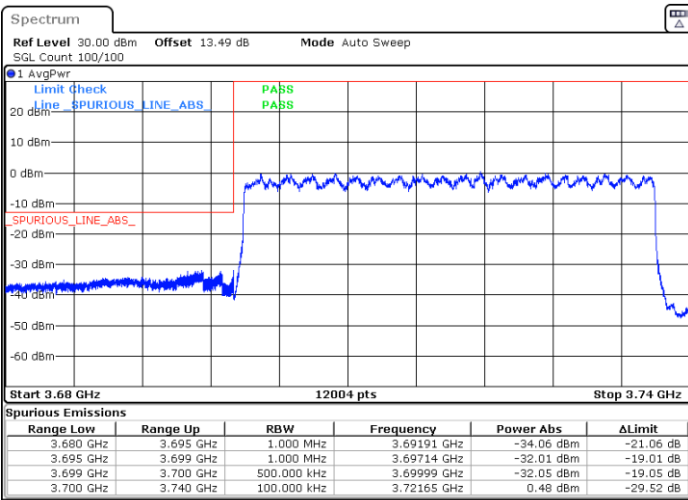
Date: 4.FEB.2022 15:03:43



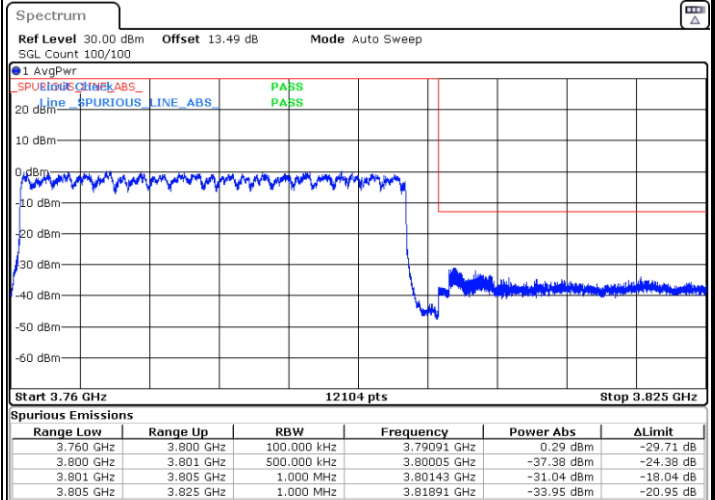
Date: 4.FEB.2022 16:47:40

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 4.FEB.2022 14:59:07



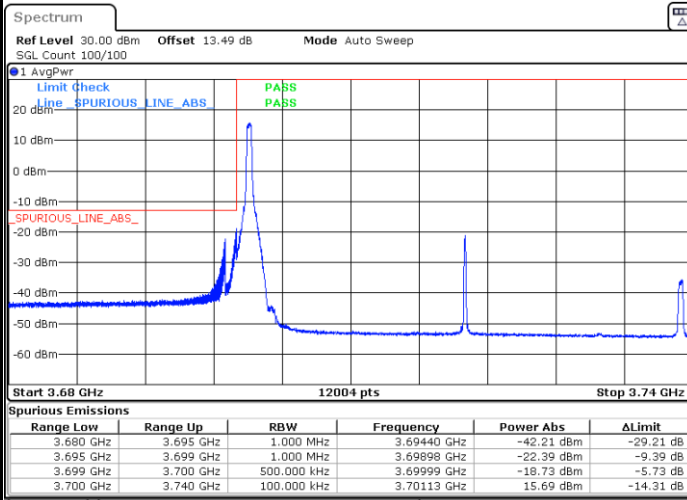
Date: 4.FEB.2022 16:43:03





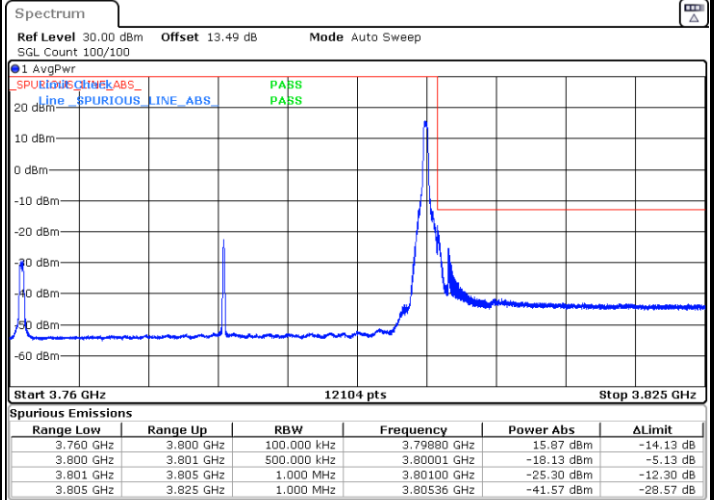
FR1 n78 / 40MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0



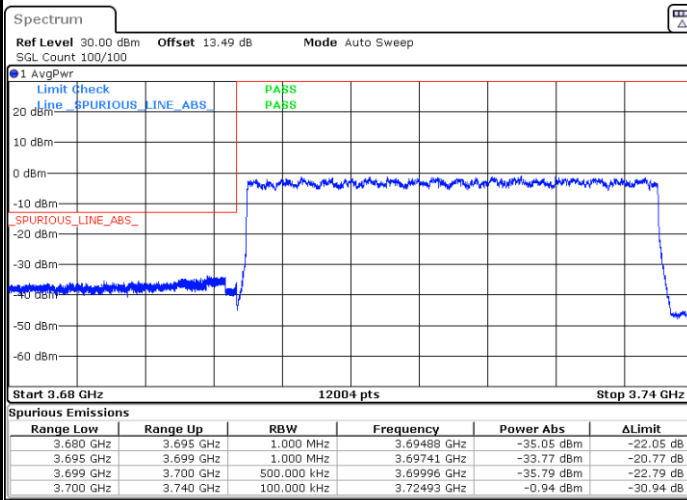
Date: 4.FEB.2022 15:03:00

Highest Band Edge / 1RB24



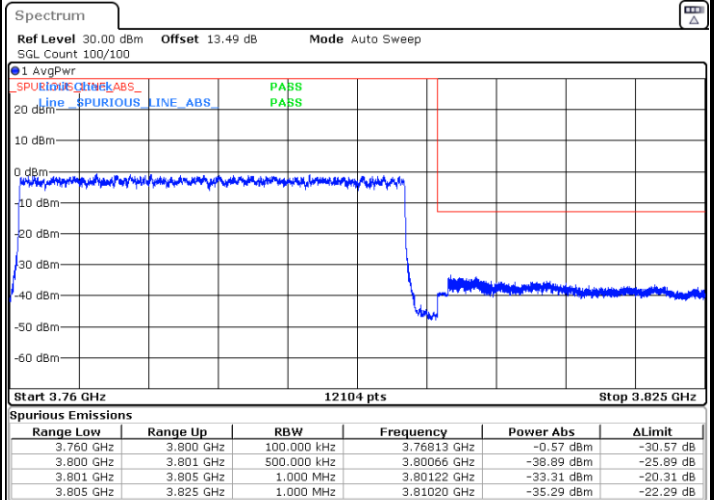
Date: 4.FEB.2022 16:47:00

Lowest Band Edge / Full RB



Date: 4.FEB.2022 15:00:04

Highest Band Edge / Full RB

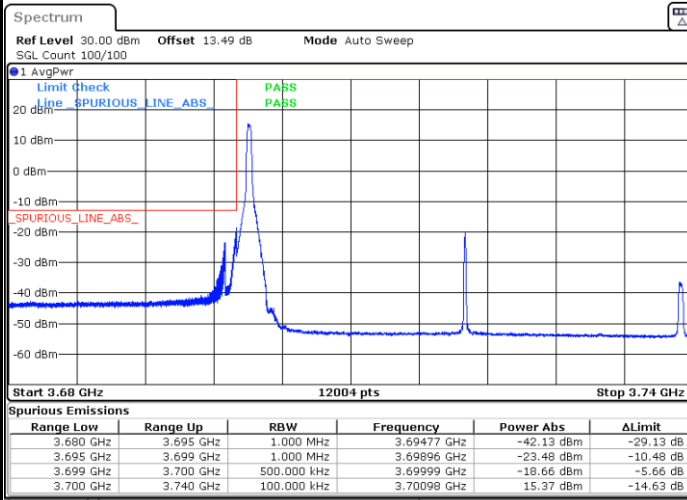


Date: 4.FEB.2022 16:44:07



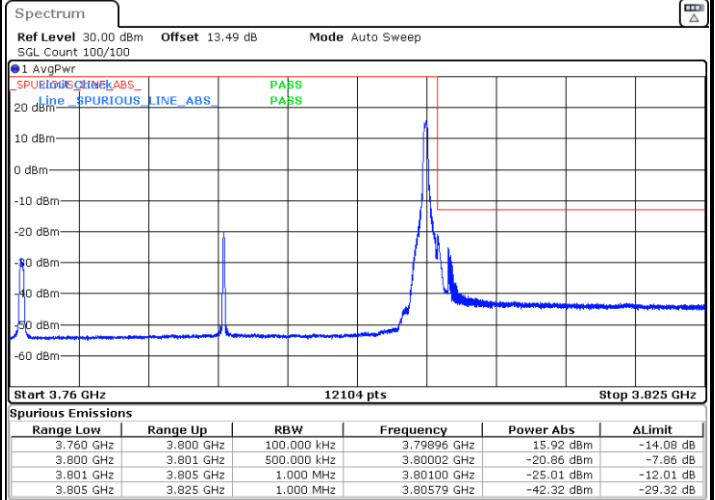
FR1 n78 / 40MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0



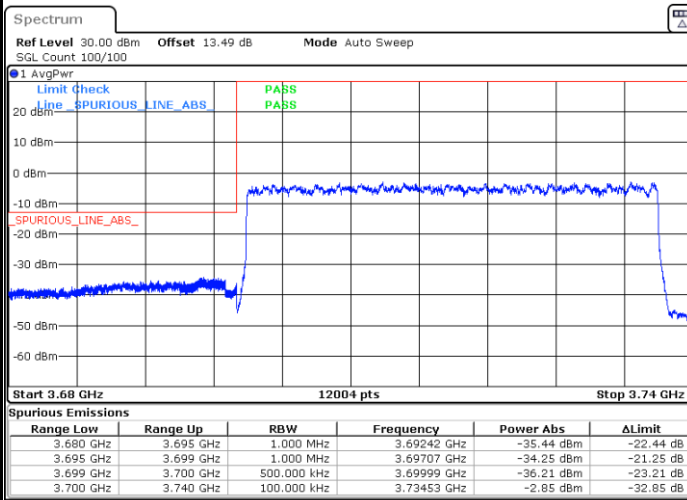
Date: 4.FEB.2022 15:01:49

Highest Band Edge / 1RB24



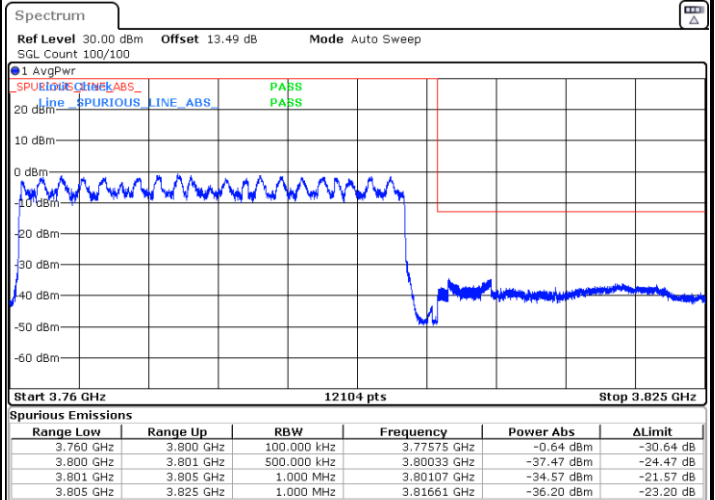
Date: 4.FEB.2022 16:46:13

Lowest Band Edge / Full RB



Date: 4.FEB.2022 15:01:06

Highest Band Edge / Full RB

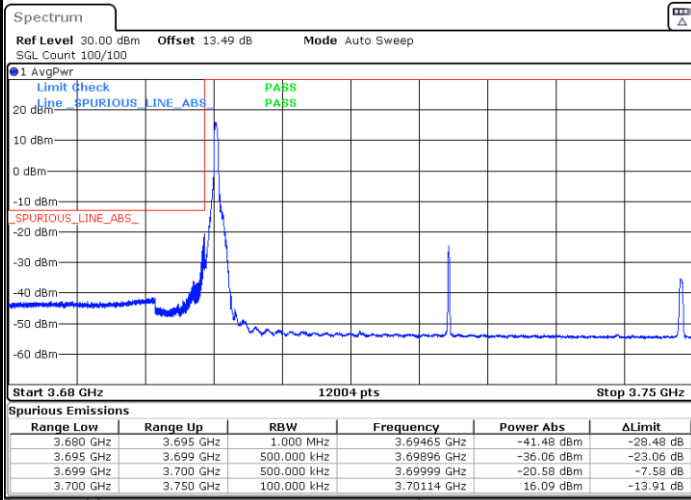


Date: 4.FEB.2022 16:45:27



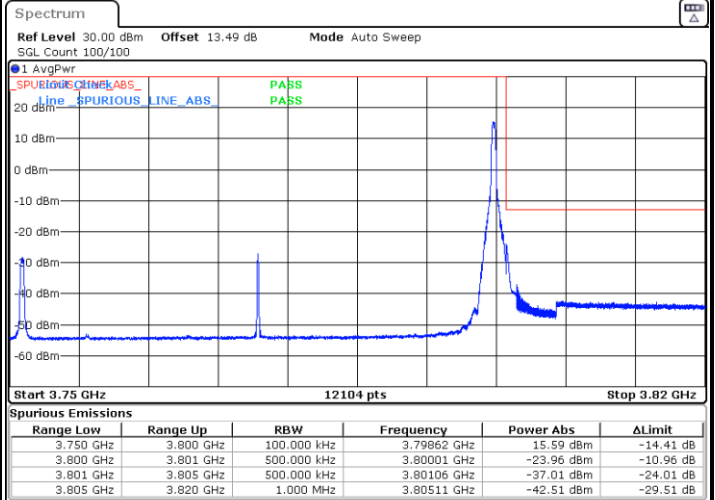
FR1 n78 / 50MHz / DFT-S OFDM / BPSK

Lowest Band Edge / 1RB0



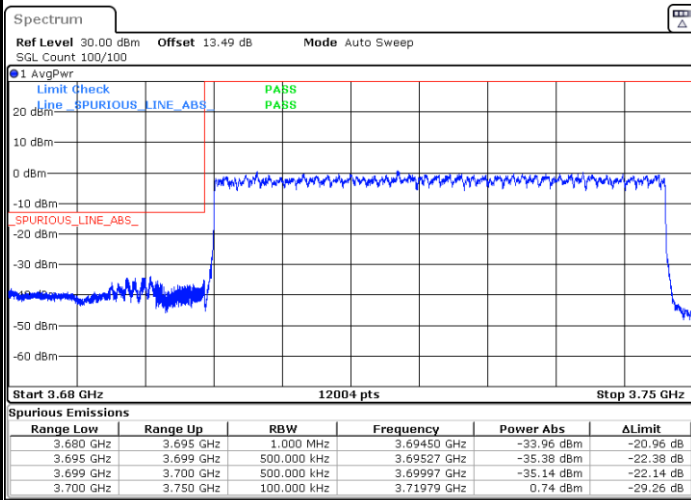
Date: 5.FEB.2022 08:58:23

Highest Band Edge / 1RB24



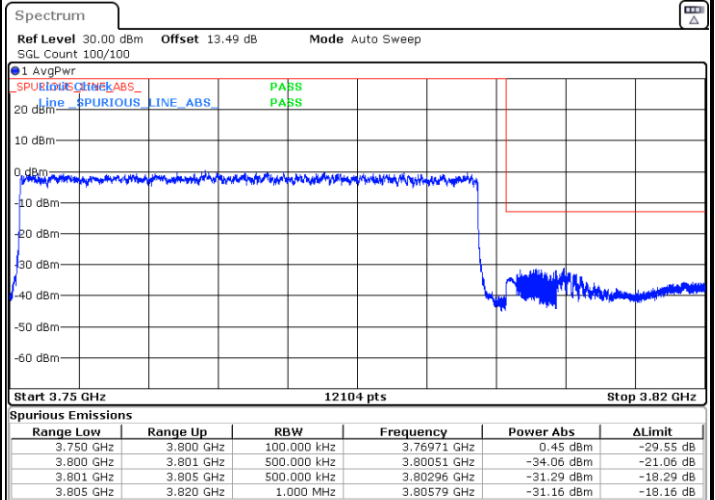
Date: 5.FEB.2022 09:10:22

Lowest Band Edge / Full RB



Date: 5.FEB.2022 08:51:43

Highest Band Edge / Full RB

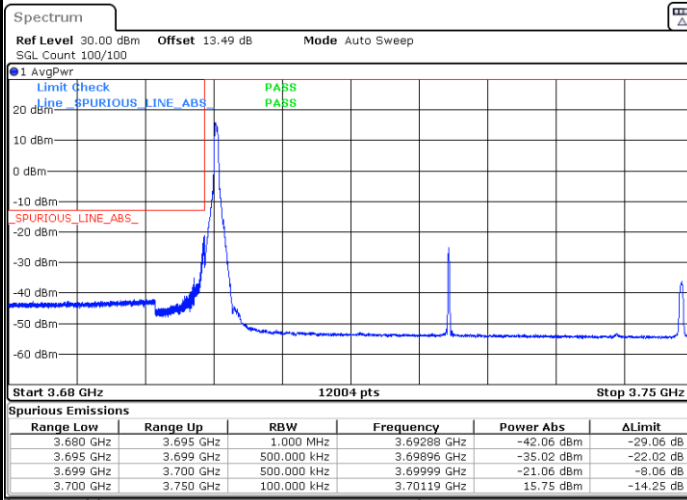


Date: 5.FEB.2022 09:03:36



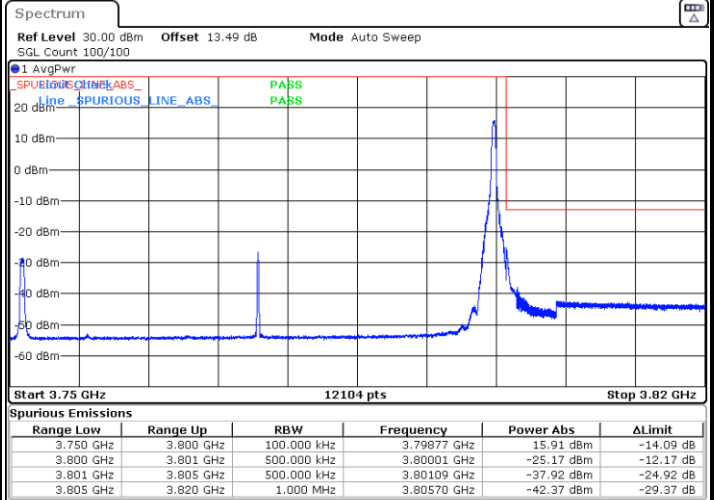
FR1 n78 / 50MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0



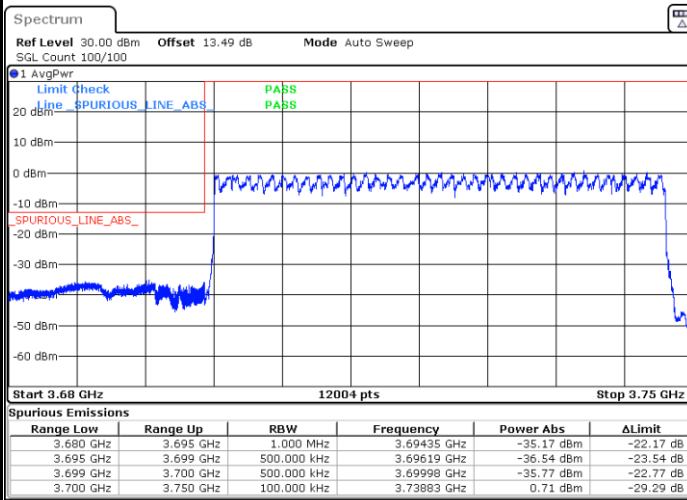
Date: 5.FEB.2022 08:57:39

Highest Band Edge / 1RB24



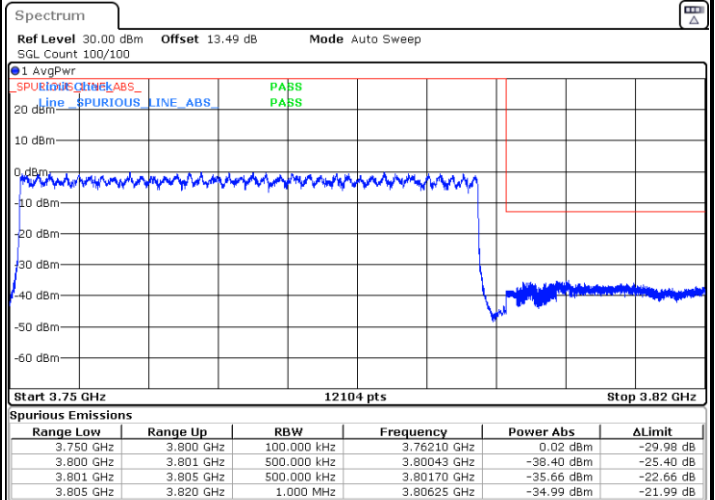
Date: 5.FEB.2022 09:09:37

Lowest Band Edge / Full RB



Date: 5.FEB.2022 08:52:35

Highest Band Edge / Full RB

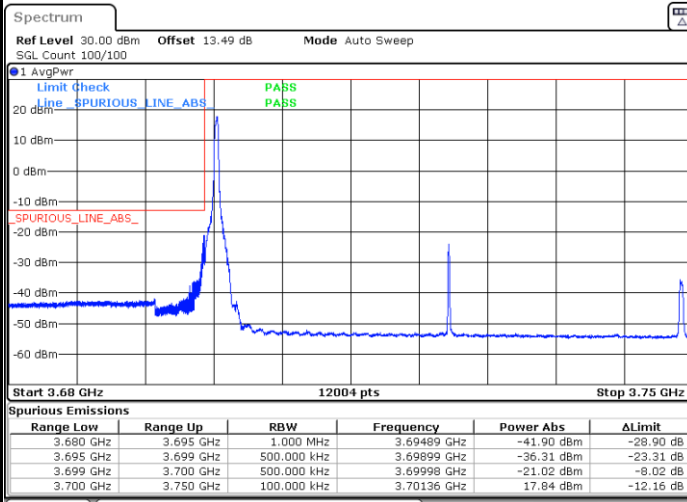


Date: 5.FEB.2022 09:04:21



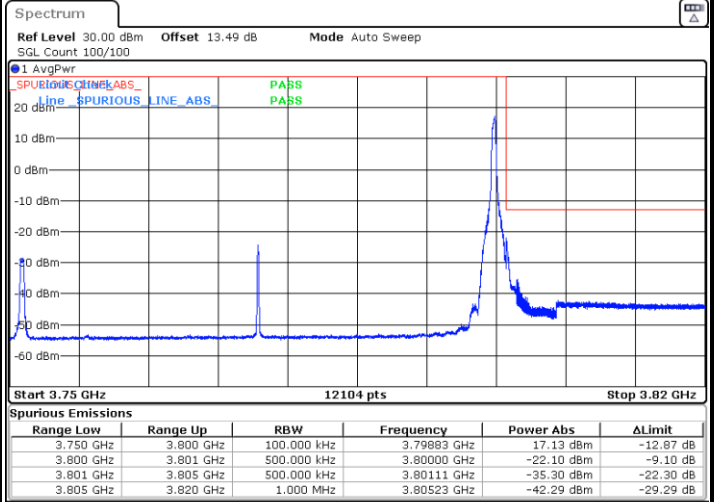
FR1 n78 / 50MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0



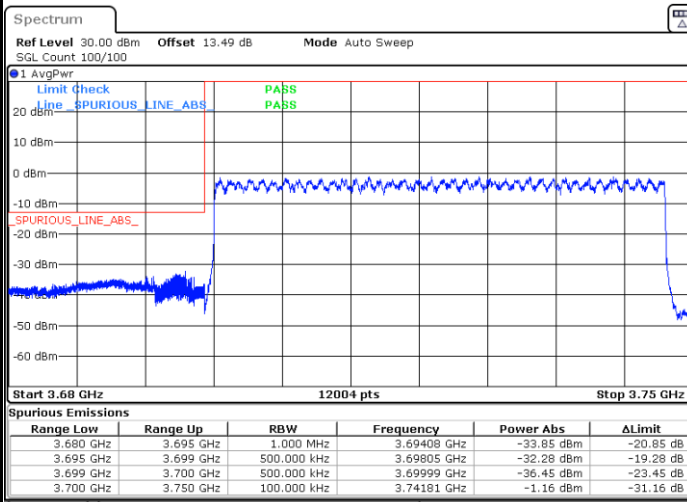
Date: 5.FEB.2022 08:57:02

Highest Band Edge / 1RB24



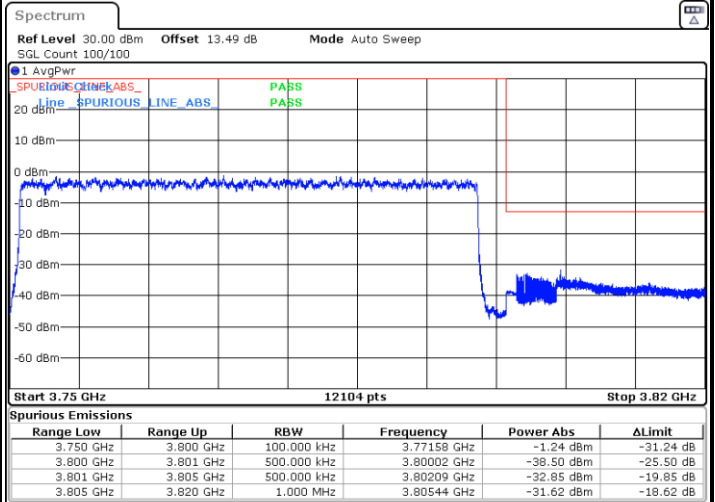
Date: 5.FEB.2022 09:08:54

Lowest Band Edge / Full RB



Date: 5.FEB.2022 08:53:14

Highest Band Edge / Full RB

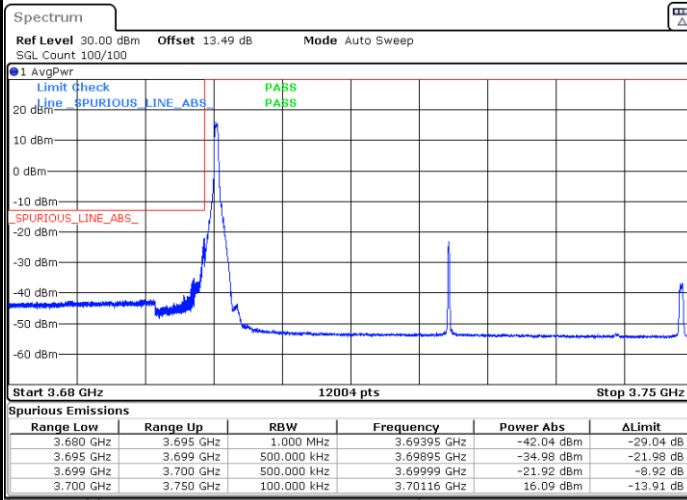


Date: 5.FEB.2022 09:05:05



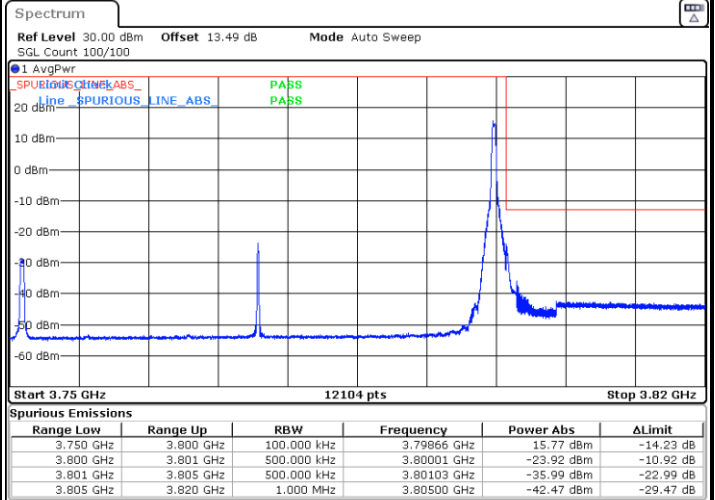
FR1 n78 / 50MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0



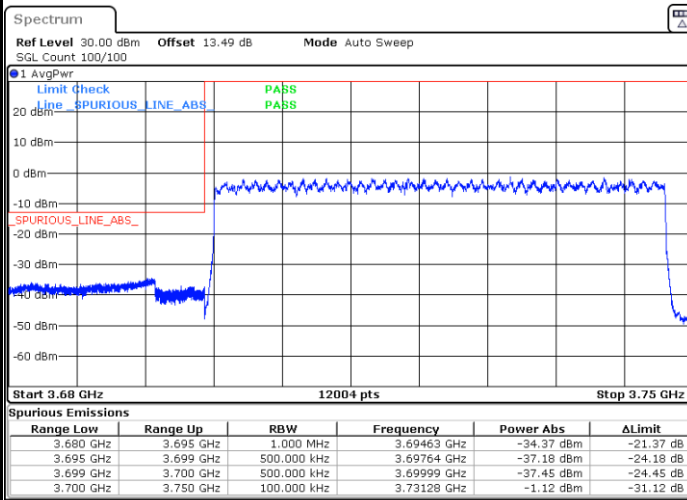
Date: 5.FEB.2022 08:56:23

Highest Band Edge / 1RB24



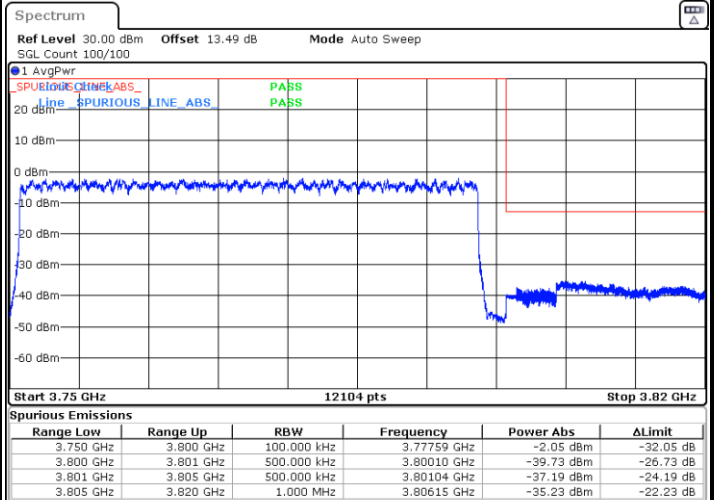
Date: 5.FEB.2022 09:08:14

Lowest Band Edge / Full RB



Date: 5.FEB.2022 08:54:03

Highest Band Edge / Full RB



Date: 5.FEB.2022 09:05:56