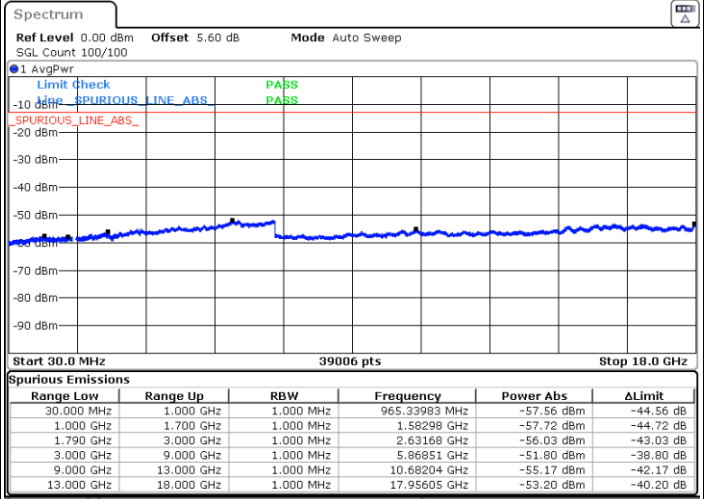
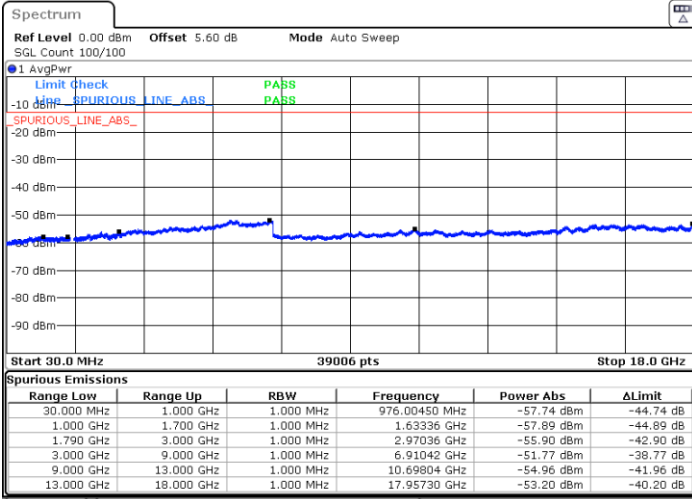




FR1 n66 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

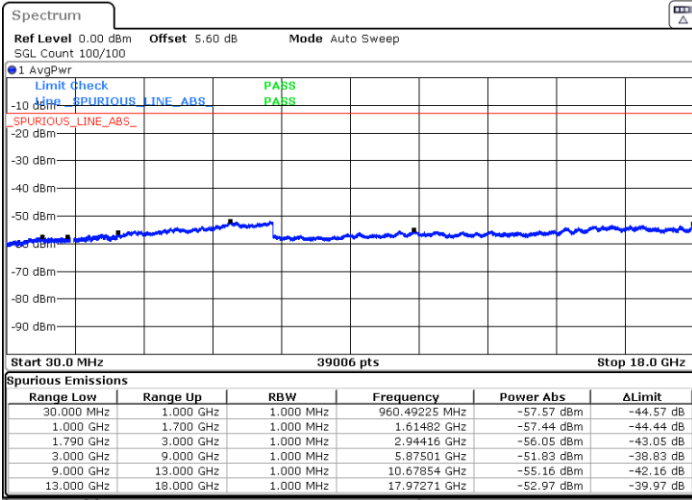
Middle Channel / 1RB1



Date: 1.APR.2021 14:03:46

Date: 1.APR.2021 14:04:28

Highest Channel / 1RB1



Date: 1.APR.2021 14:05:14



### Frequency Stability

Test Conditions		FR1 n66 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0001	PASS
40	Normal Voltage	0.0035	
30	Normal Voltage	0.0016	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0022	
0	Normal Voltage	0.0013	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0025	
-30	Normal Voltage	0.0034	
20	Maximum Voltage	0.0016	
20	Normal Voltage	0.0025	
20	Battery End Point	0.0013	

**Note:**

1. Normal Voltage =3.85V. ; Battery End Point (BEP) =3.40 V. ; Maximum Voltage =4.30 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



# FR1 n71

## Peak-to-Average Ratio

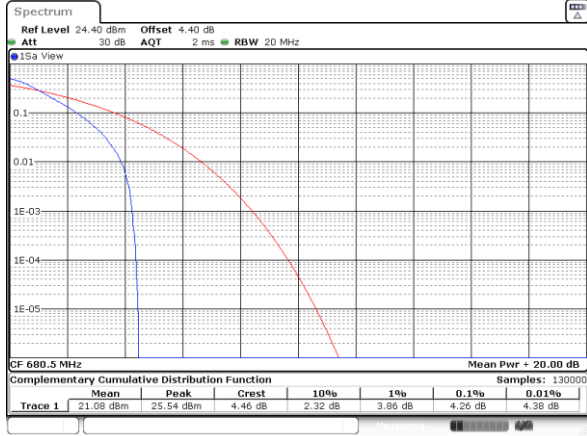
Mode	FR1 n71 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
					PASS
Middle CH	4.26	4.26	5.45	5.83	
Mode	FR1 n71 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
					PASS
Middle CH	6.32				



FR1 n71 / 20MHz / DFT-S OFDM

Middle Channel / Full RB

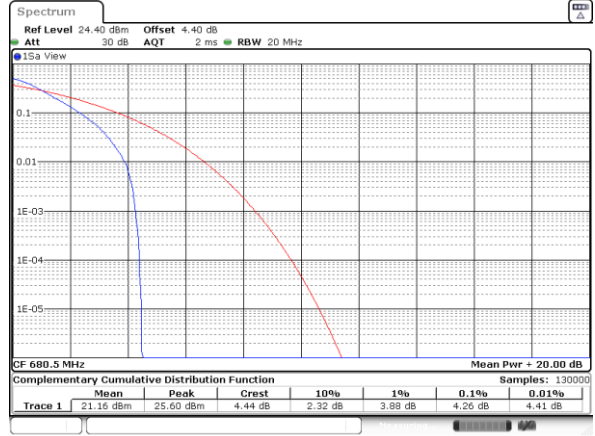
PI/2 BPSK



Date: 1.APR.2021 18:09:05

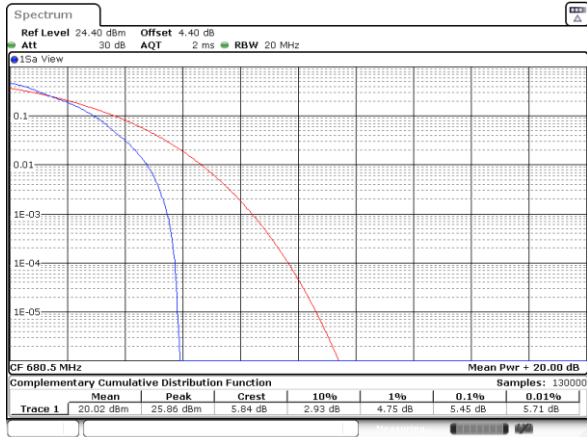
Middle Channel / Full RB

QPSK



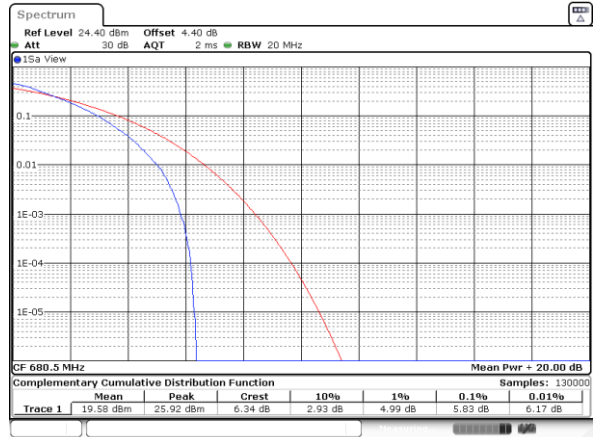
Date: 1.APR.2021 18:09:17

16QAM



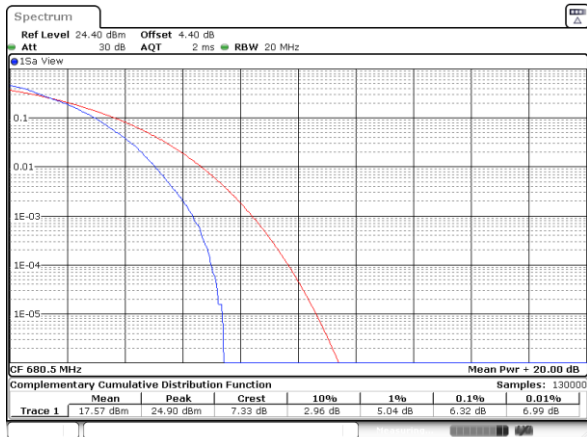
Date: 1.APR.2021 18:09:40

64QAM



Date: 1.APR.2021 18:09:56

256QAM

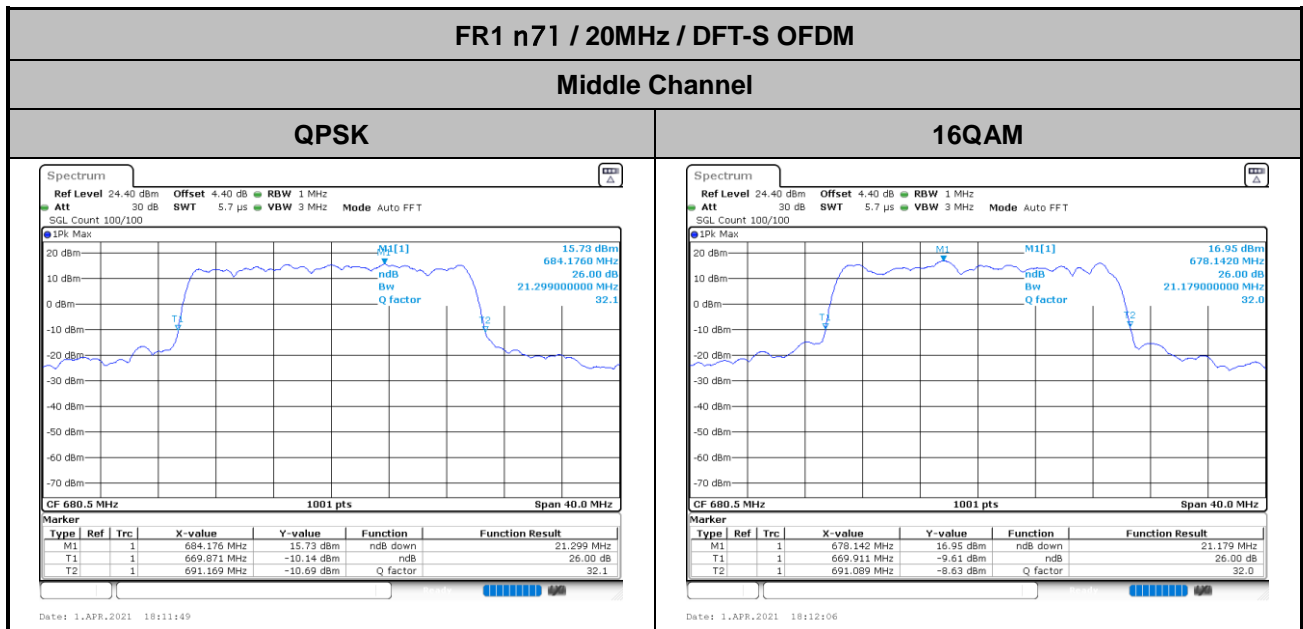


Date: 1.APR.2021 18:10:49



**26dB Bandwidth**

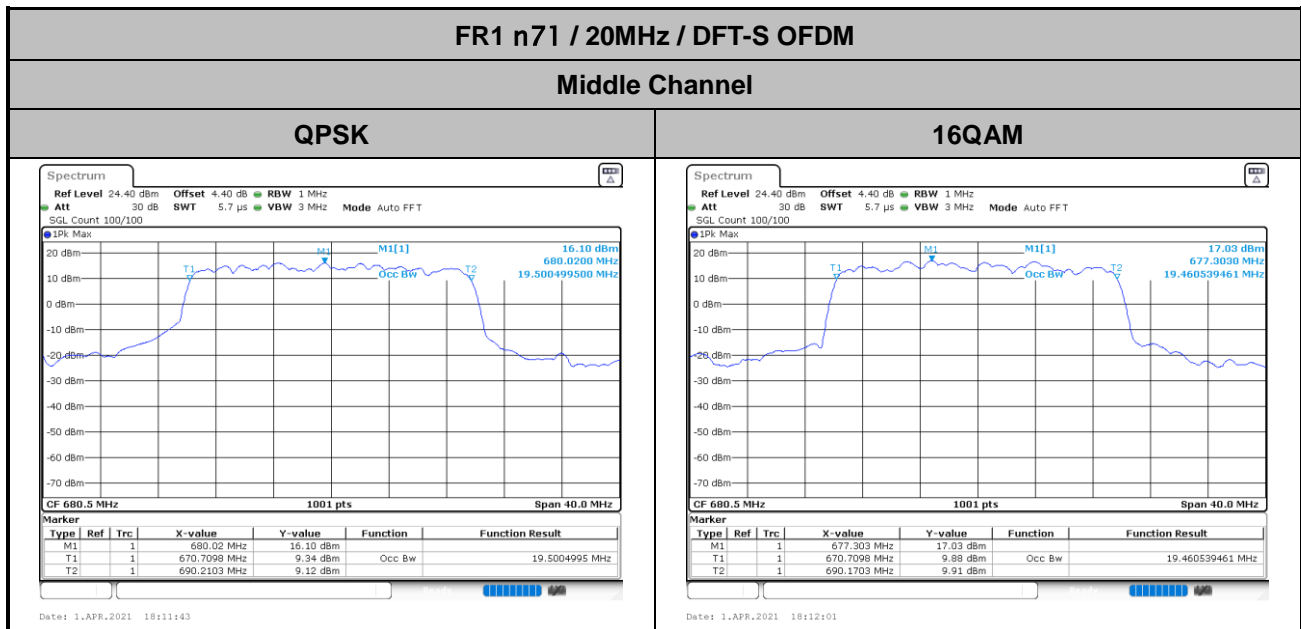
Mode	FR1 n71: 26dB BW(20MHz) / DFT-S OFDM						
BW	20MHz						
Mod.	QPSK	16QAM					
Middle CH	21.299	21.179					





# Occupied Bandwidth

Mode	FR1 n71: 99%OBW(20MHz) / DFT-S OFDM							
BW	20MHz							
Mod.	QPSK	16QAM						
Middle CH	19.500	19.461						





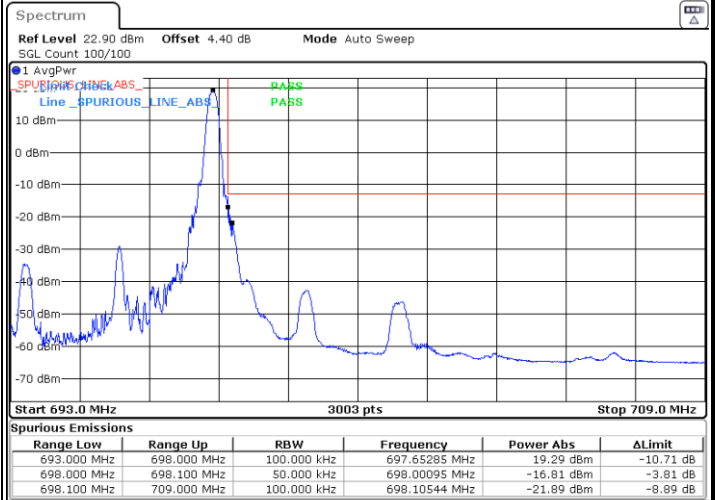
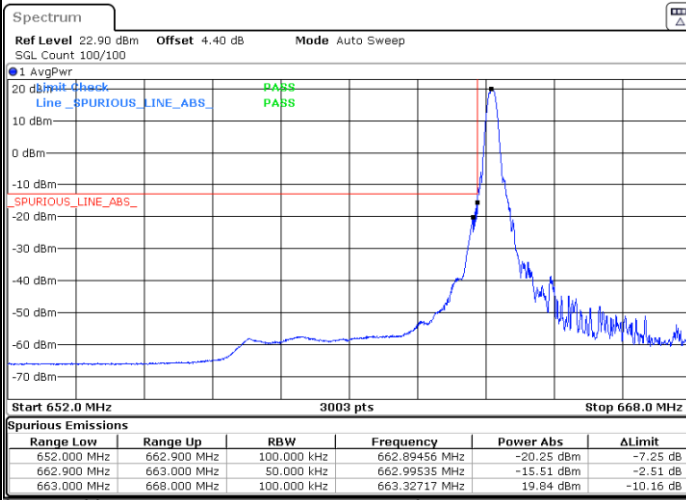
**Conducted Band Edge**



FR1 n71 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

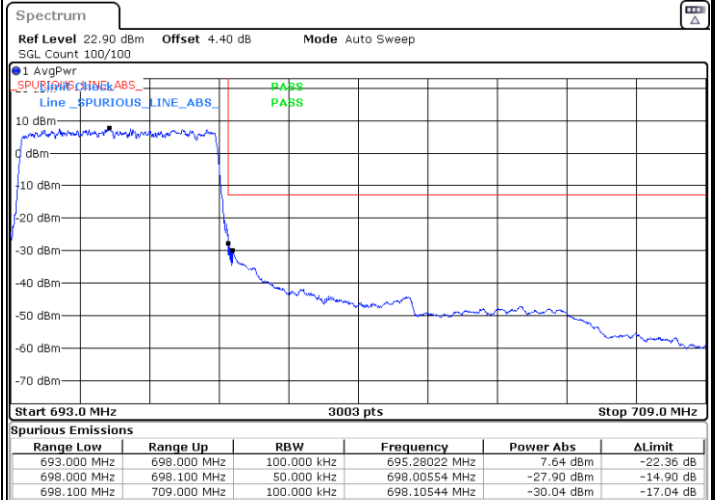
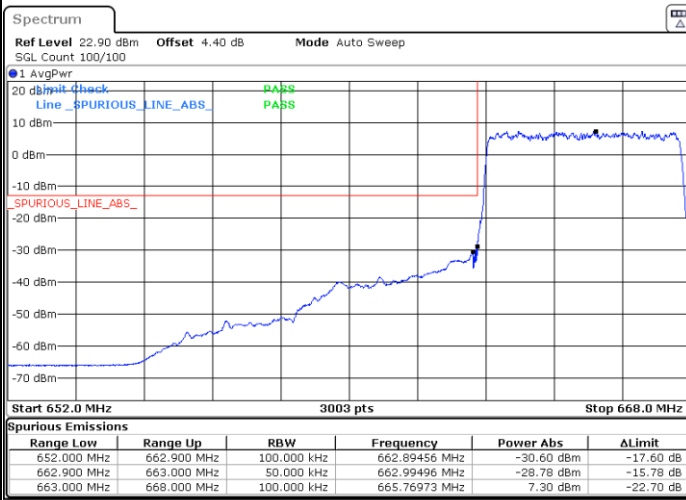


Date: 1.APR.2021 16:45:36

Date: 1.APR.2021 17:01:06

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 16:55:43

Date: 2.APR.2021 14:31:42

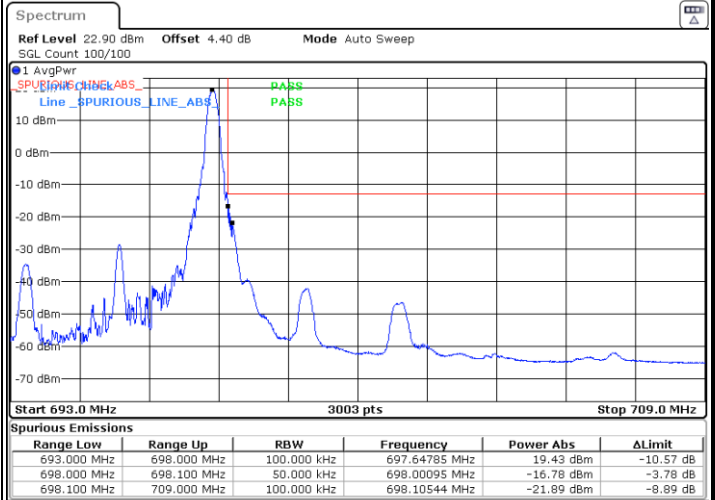
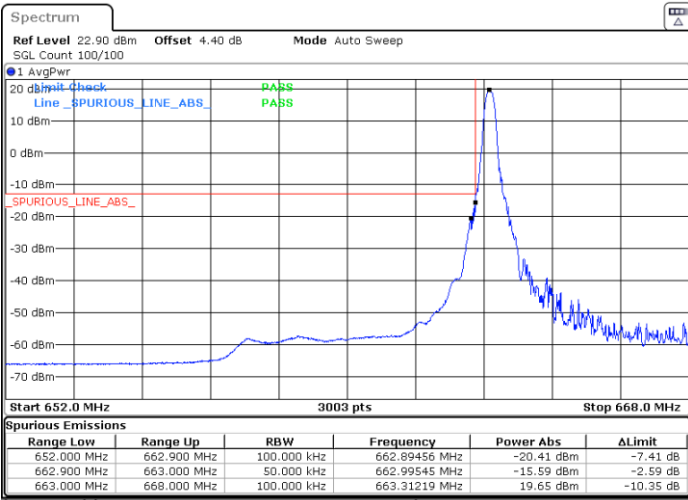




FR1 n71 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

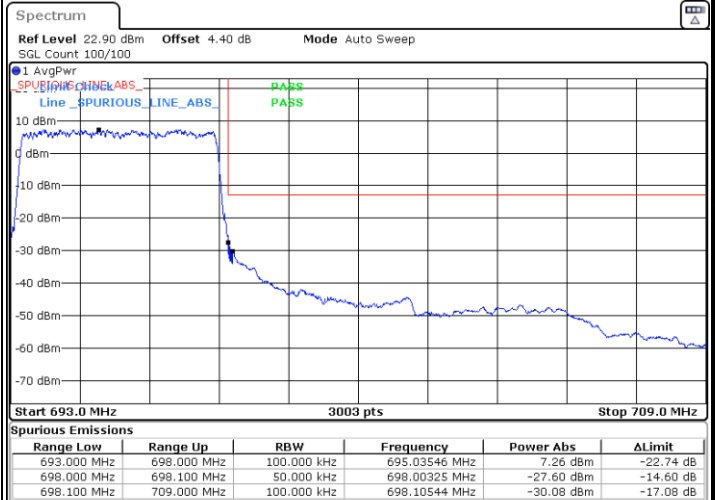
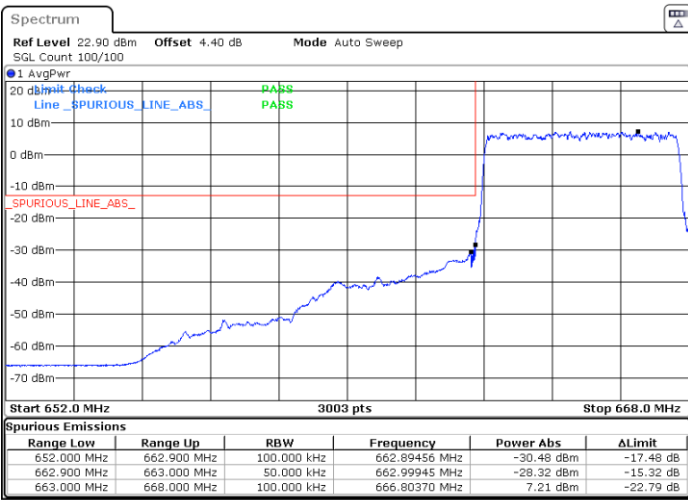


Date: 1.APR.2021 16:44:56

Date: 1.APR.2021 17:02:11

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 16:56:23

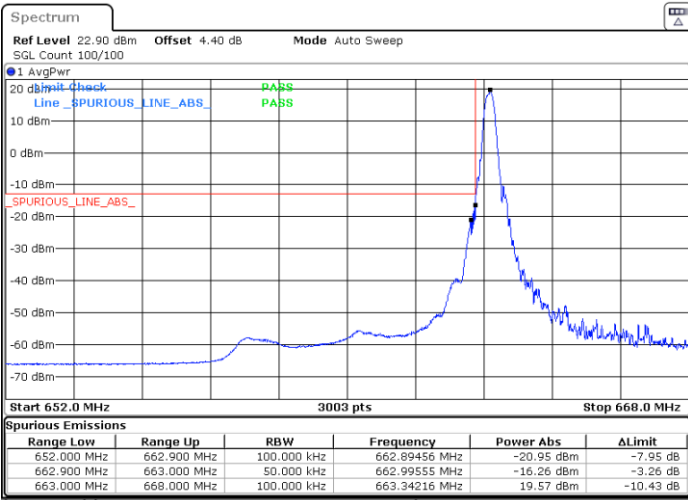
Date: 2.APR.2021 14:32:27



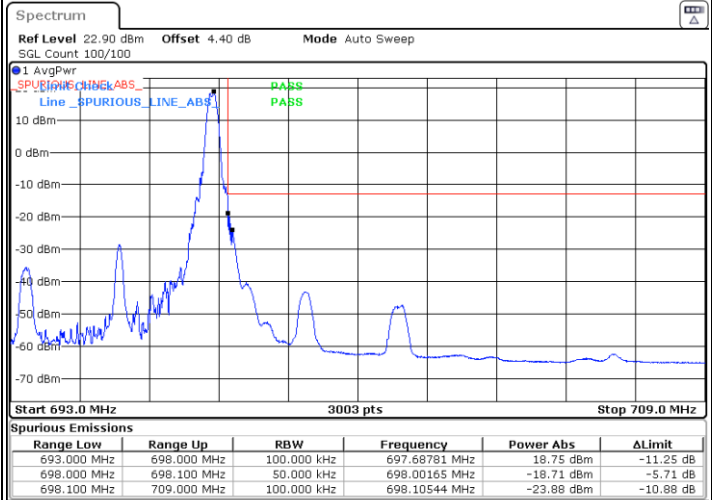
FR1 n71 / 5MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



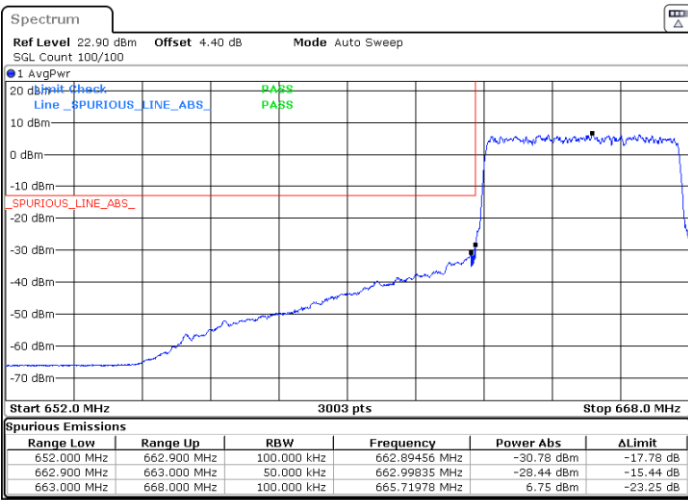
Date: 1.APR.2021 16:53:28



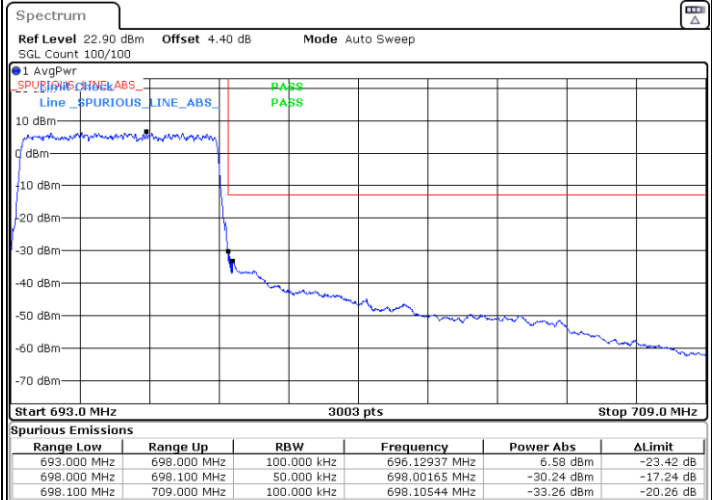
Date: 1.APR.2021 17:02:58

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 16:57:02



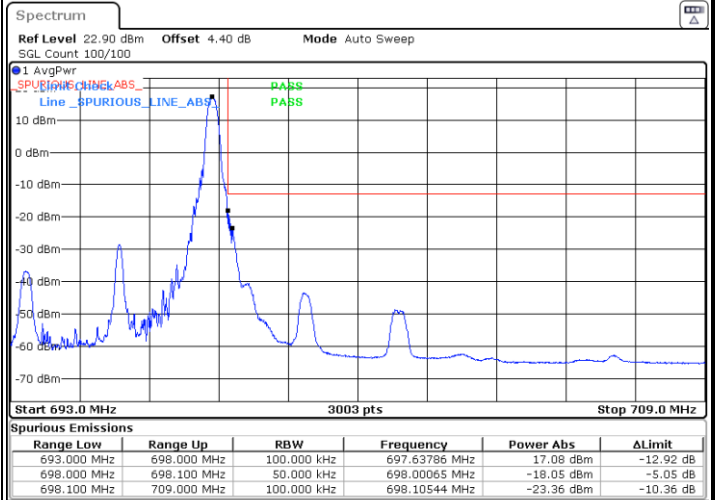
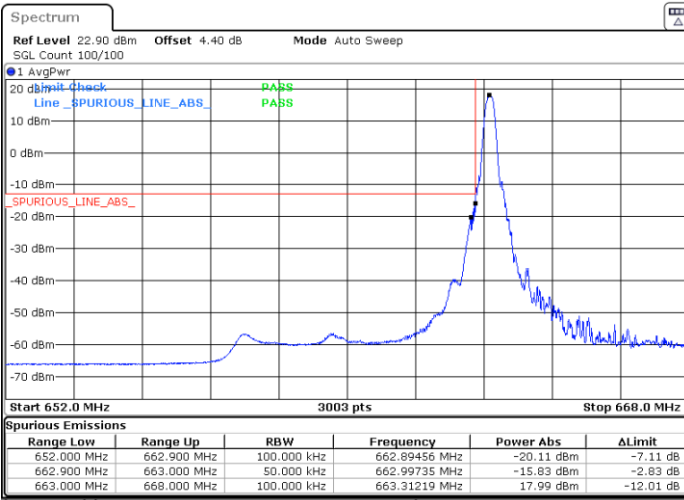
Date: 2.APR.2021 14:33:05



FR1 n71/ 5MHz / DFT-S OFDM / 64Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

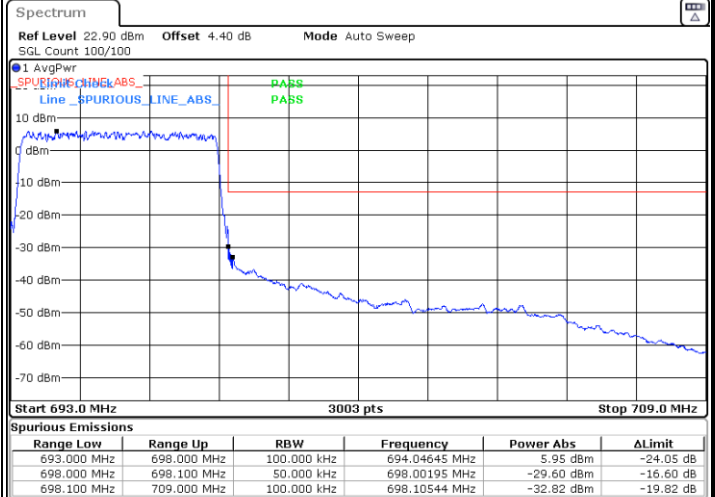
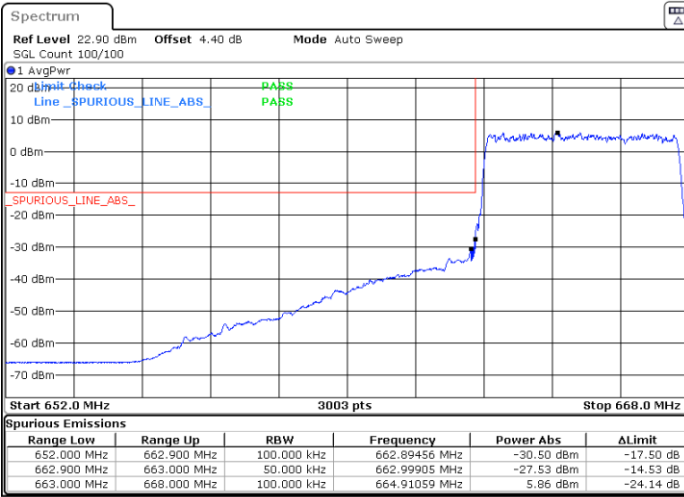


Date: 1.APR.2021 16:54:04

Date: 1.APR.2021 17:03:41

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 16:57:48

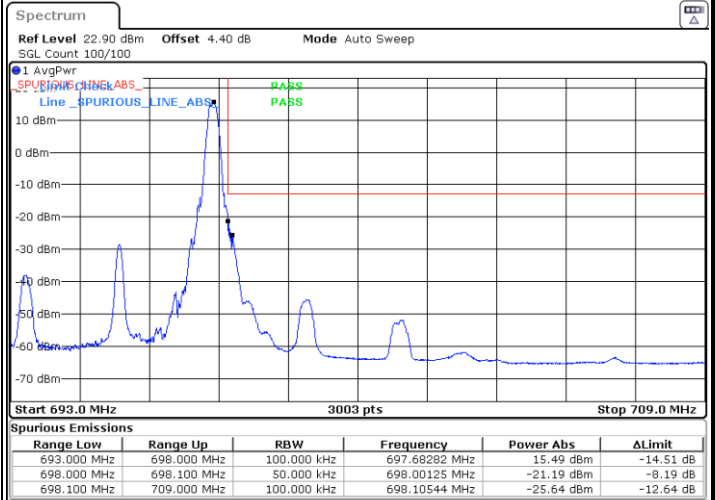
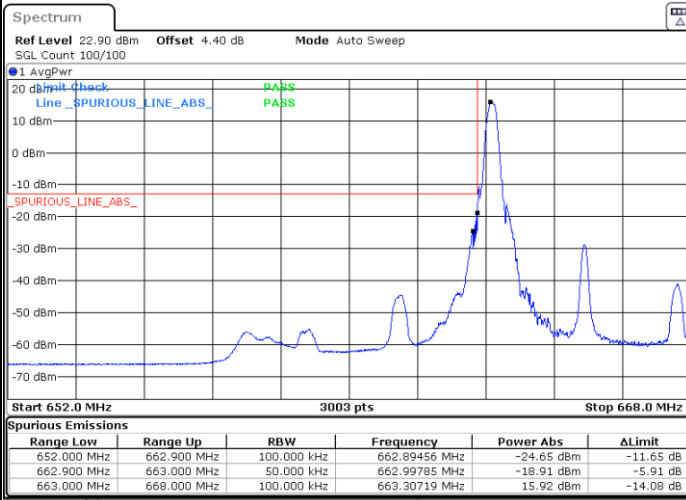
Date: 2.APR.2021 14:33:49



FR1 n71 / 5MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

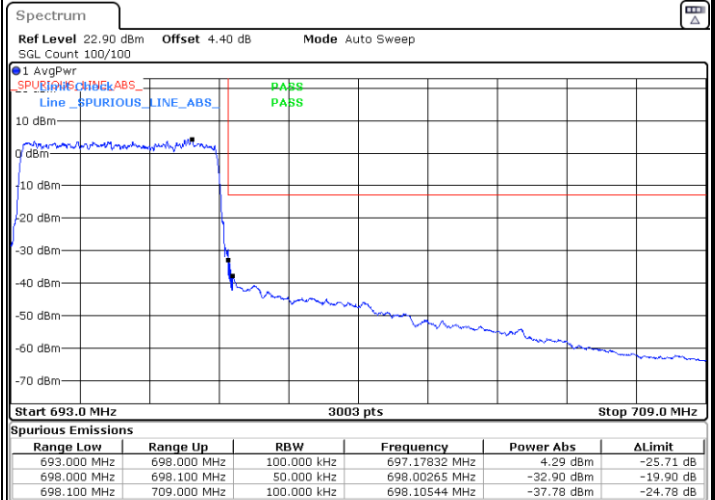
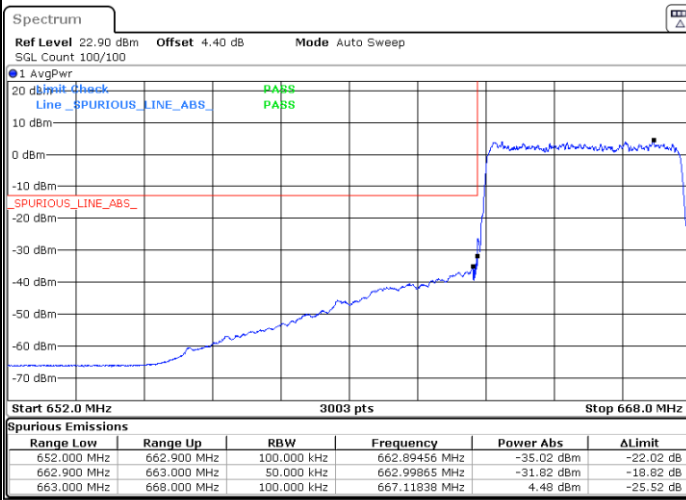


Date: 1.APR.2021 16:54:51

Date: 1.APR.2021 17:04:29

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 16:58:43

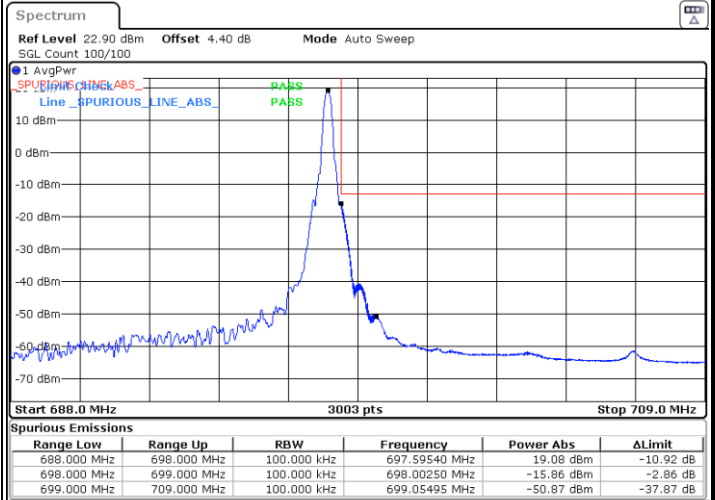
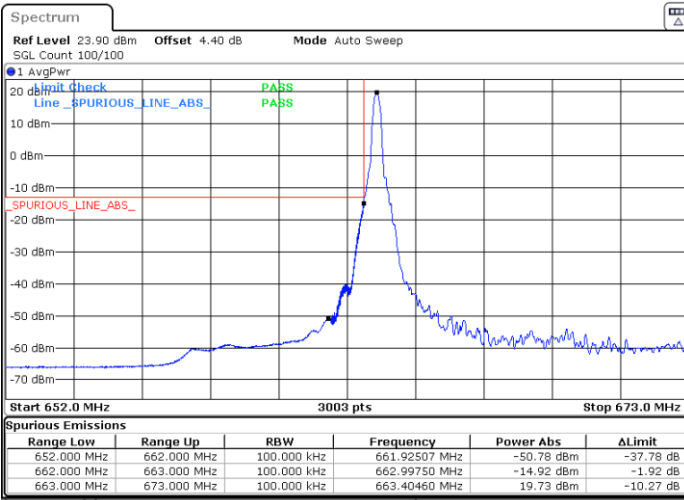
Date: 2.APR.2021 14:35:30



FR1 n71 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

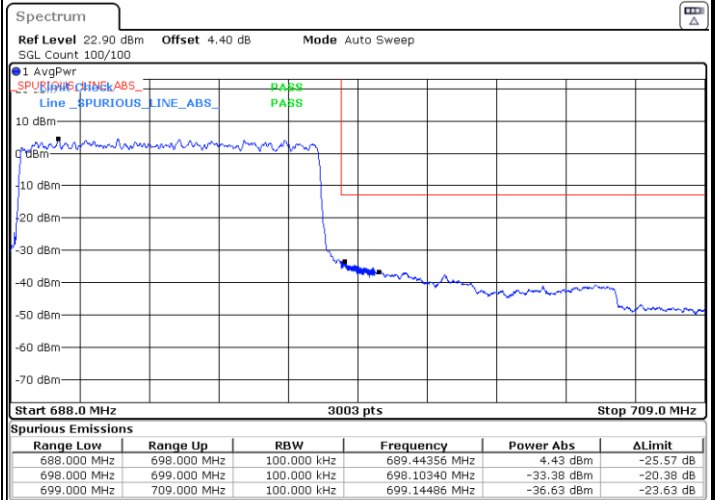
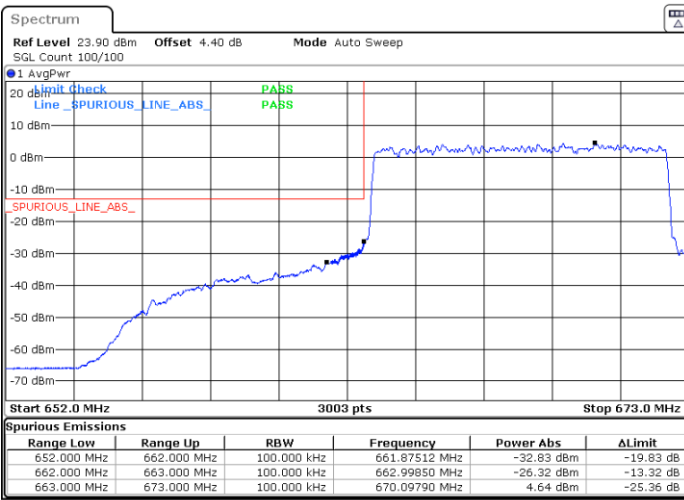


Date: 1.APR.2021 17:08:12

Date: 1.APR.2021 17:20:53

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 17:12:38

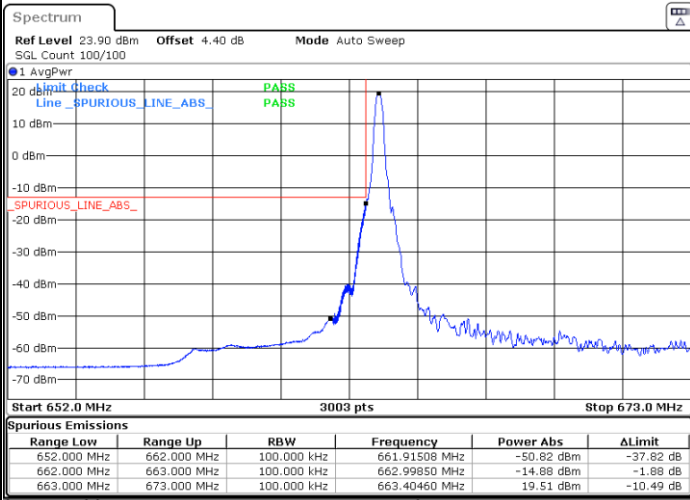
Date: 1.APR.2021 17:16:27



FR1 n71 / 10MHz / DFT-s-OFDM / QPSK

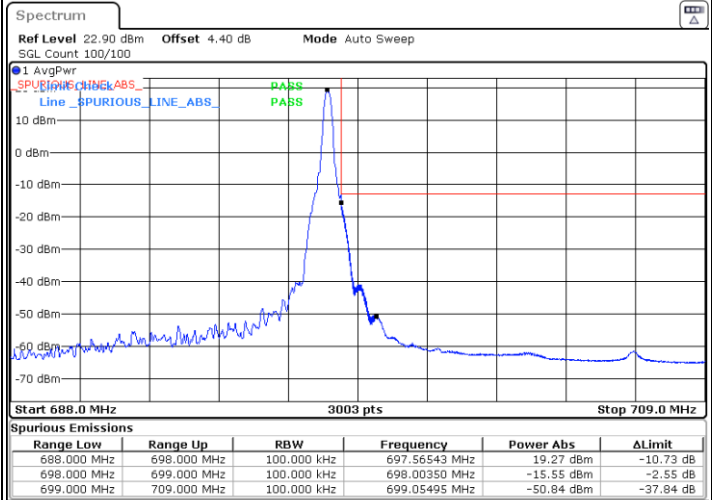
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.000 MHz	100.000 kHz	661.91508 MHz	-50.82 dBm	-37.82 dB
662.000 MHz	663.000 MHz	100.000 kHz	662.99850 MHz	-14.88 dBm	-1.88 dB
663.000 MHz	673.000 MHz	100.000 kHz	663.40460 MHz	19.51 dBm	-10.49 dB

Date: 1.APR.2021 17:08:47

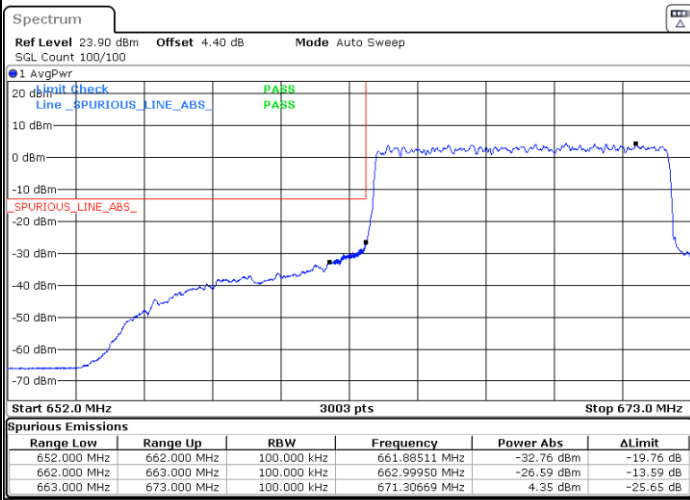


Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
688.000 MHz	698.000 MHz	100.000 kHz	697.56543 MHz	19.27 dBm	-10.73 dB
698.000 MHz	699.000 MHz	100.000 kHz	698.00350 MHz	-15.55 dBm	-2.55 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.05495 MHz	-50.84 dBm	-37.84 dB

Date: 1.APR.2021 17:21:30

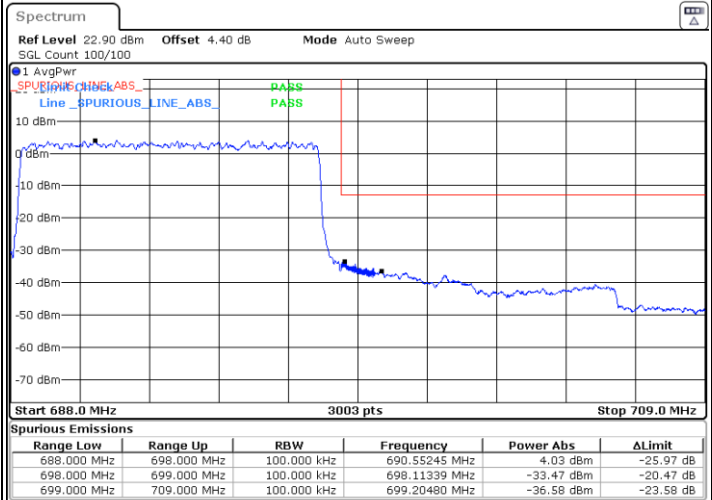
Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
652.000 MHz	662.000 MHz	100.000 kHz	661.88511 MHz	-32.76 dBm	-19.76 dB
662.000 MHz	663.000 MHz	100.000 kHz	662.99950 MHz	-26.59 dBm	-13.59 dB
663.000 MHz	673.000 MHz	100.000 kHz	671.30669 MHz	4.35 dBm	-25.65 dB

Date: 1.APR.2021 17:13:27



Range Low	Range Up	RBW	Frequency	Power Abs	ΔLimit
688.000 MHz	698.000 MHz	100.000 kHz	690.55245 MHz	4.03 dBm	-25.97 dB
698.000 MHz	699.000 MHz	100.000 kHz	698.11339 MHz	-33.47 dBm	-20.47 dB
699.000 MHz	709.000 MHz	100.000 kHz	699.20480 MHz	-36.58 dBm	-23.58 dB

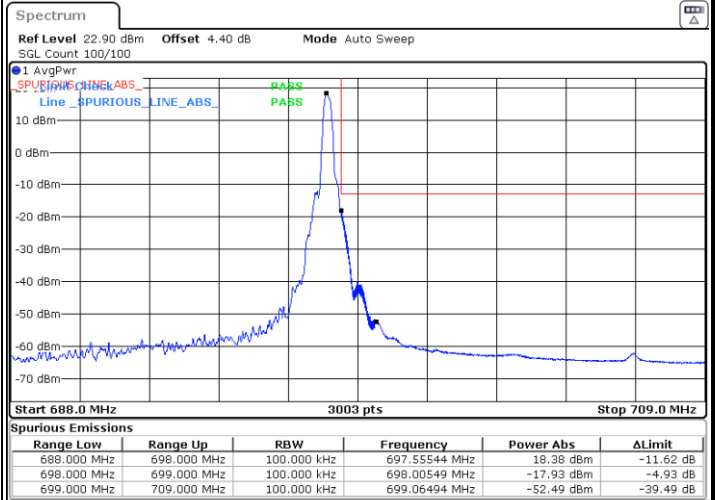
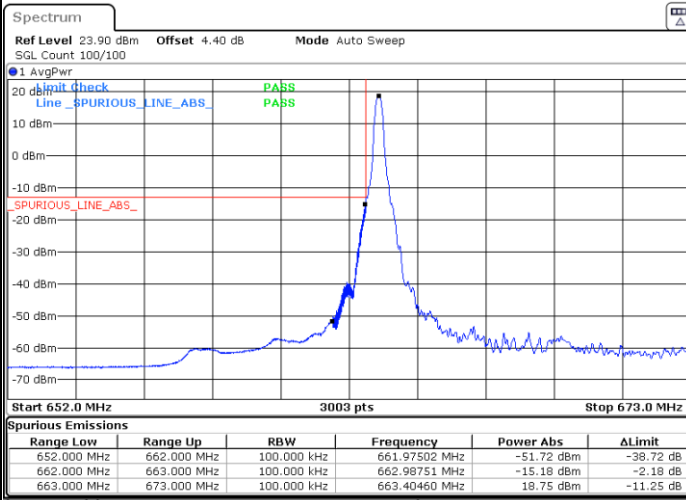
Date: 1.APR.2021 17:17:03



FR1 n71/ 10MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

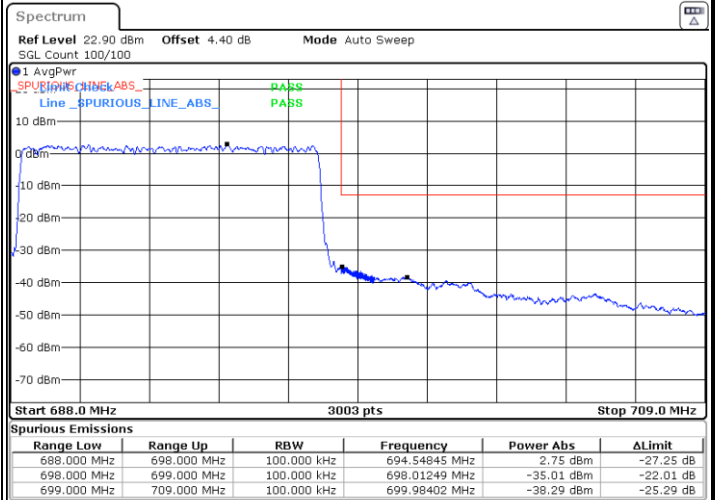
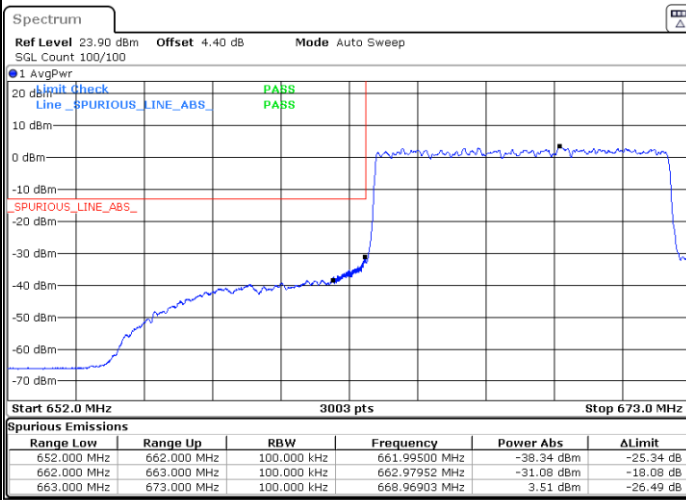


Date: 1.APR.2021 17:09:25

Date: 1.APR.2021 17:22:07

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 17:14:05

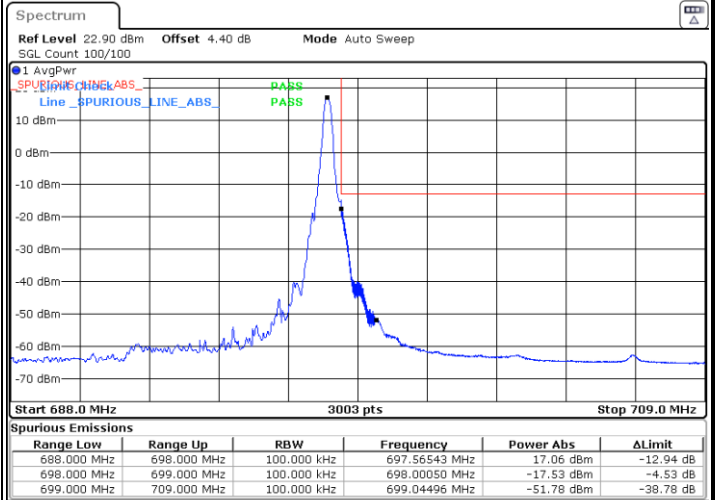
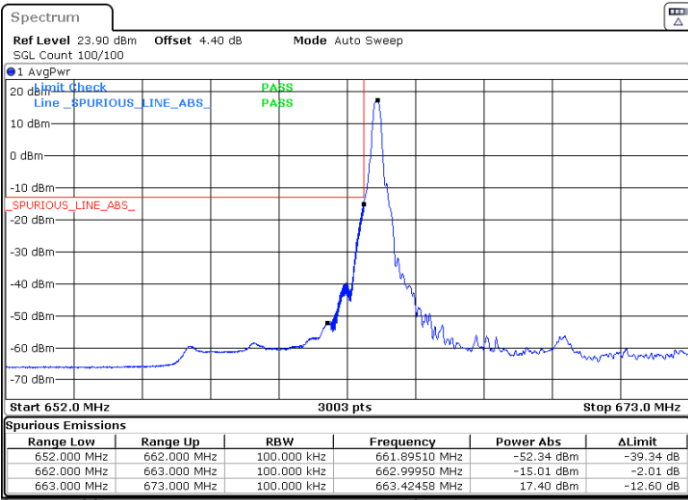
Date: 1.APR.2021 17:17:42



FR1 n71 / 10MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

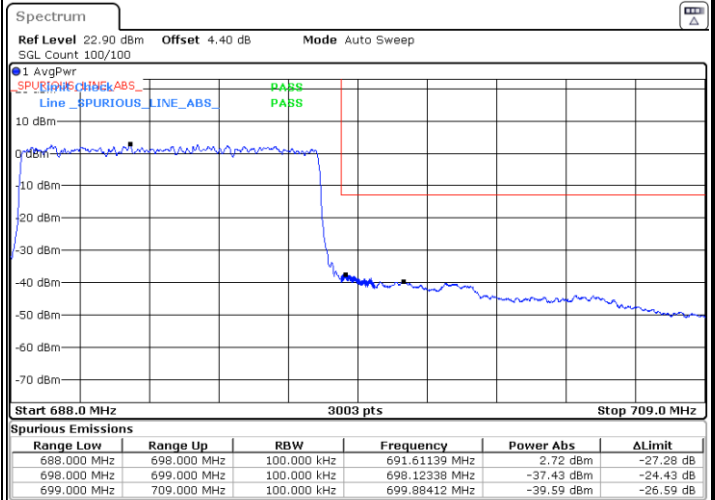
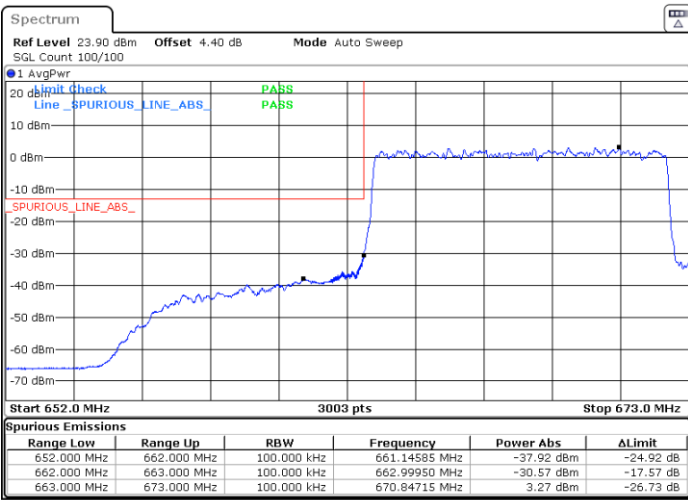


Date: 1.APR.2021 17:10:24

Date: 1.APR.2021 17:22:46

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 17:14:43

Date: 1.APR.2021 17:18:20

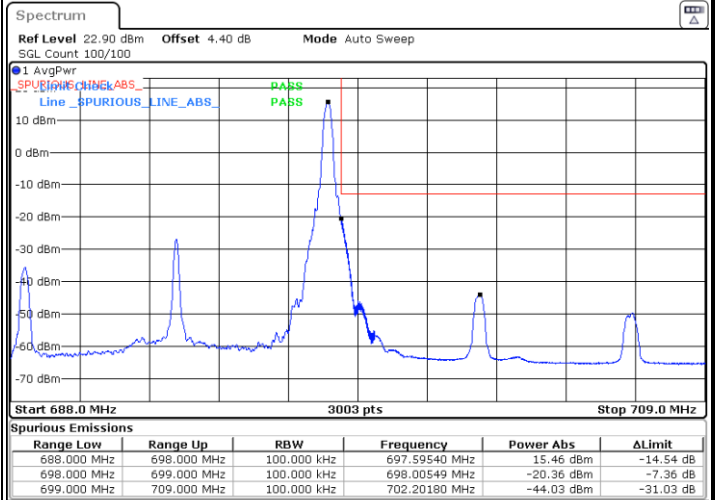
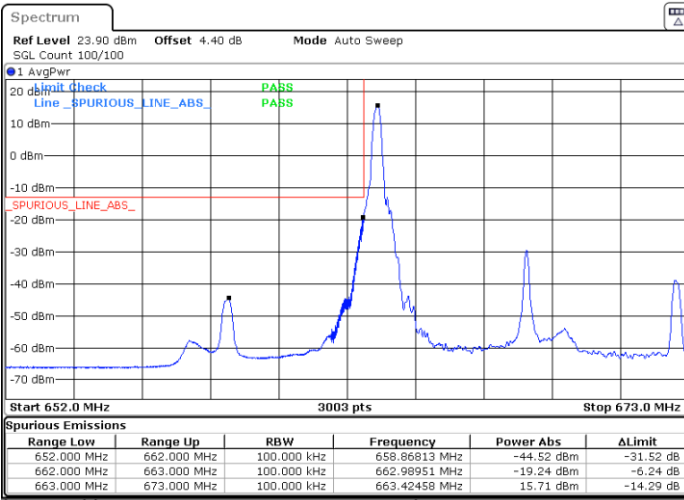




FR1 n71/ 10MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

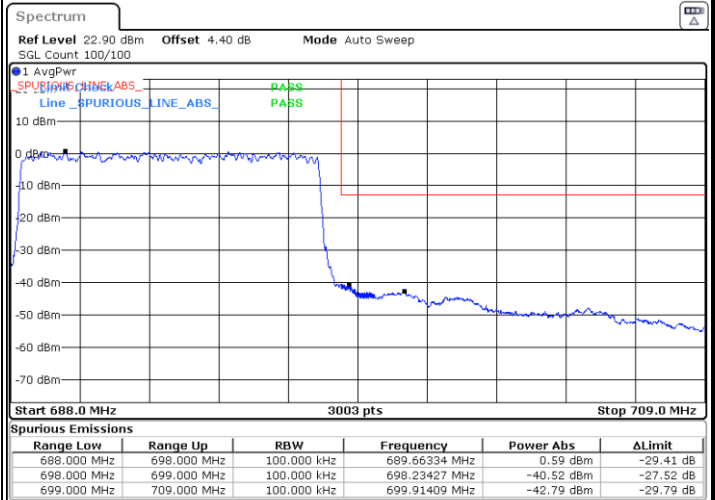
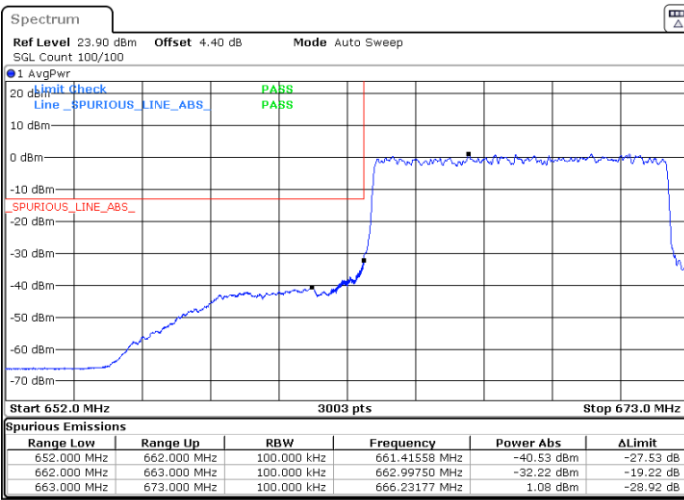


Date: 1.APR.2021 17:11:57

Date: 1.APR.2021 17:23:22

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 17:15:21

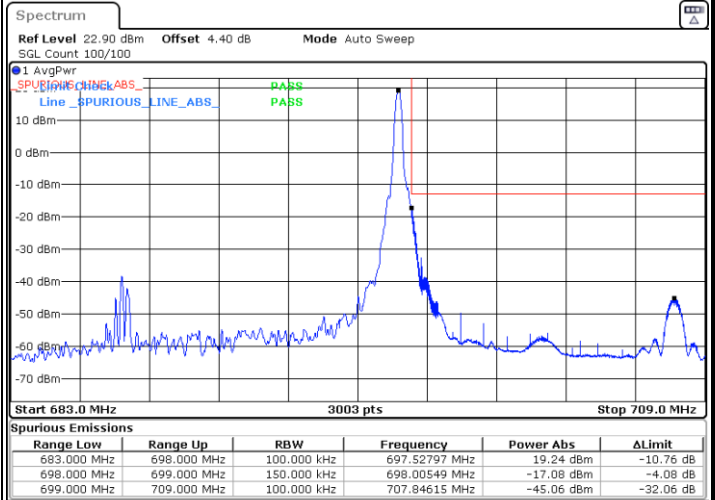
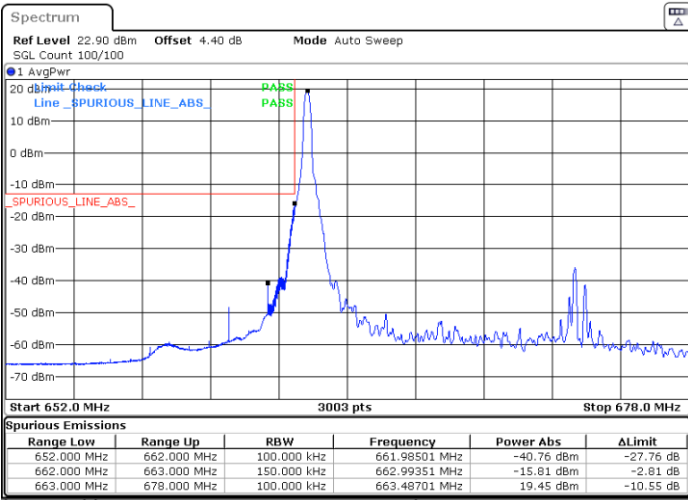
Date: 1.APR.2021 17:18:58



FR1 n71 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

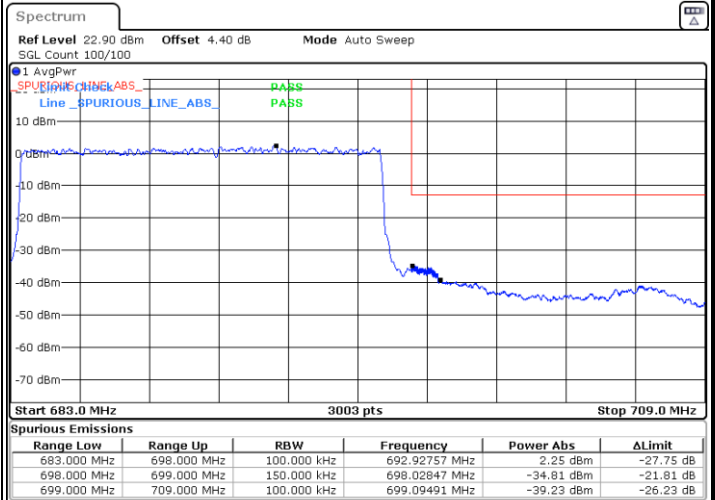
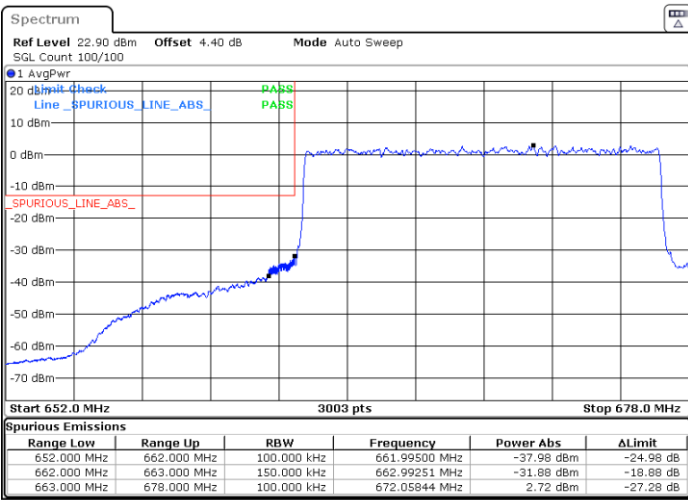


Date: 1.APR.2021 17:28:07

Date: 1.APR.2021 17:35:33

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 17:25:00

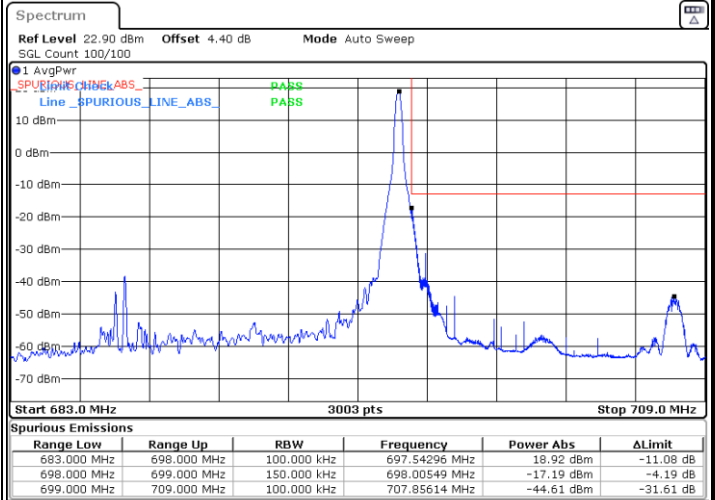
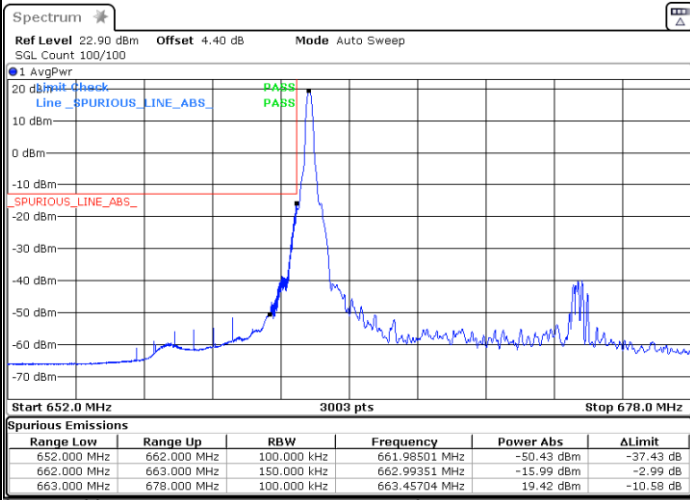
Date: 1.APR.2021 17:32:04



FR1 n71/ 15MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

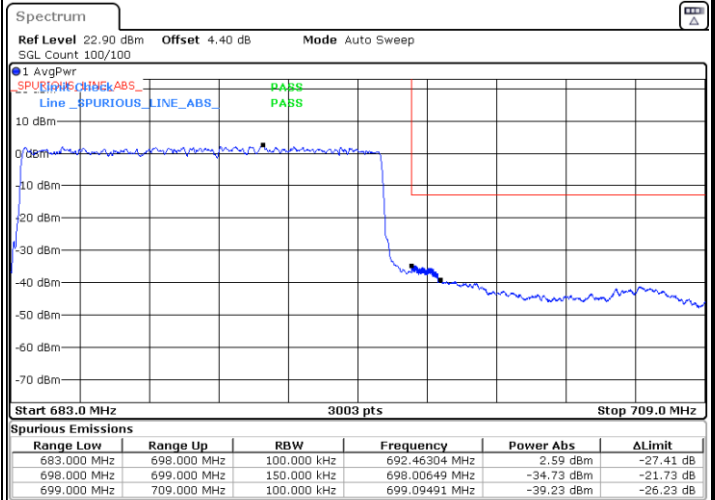
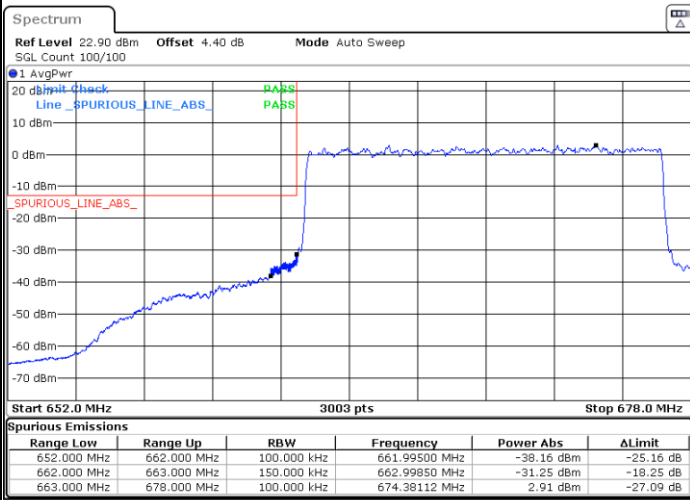


Date: 1.APR.2021 17:29:06

Date: 1.APR.2021 17:36:07

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 17:25:34

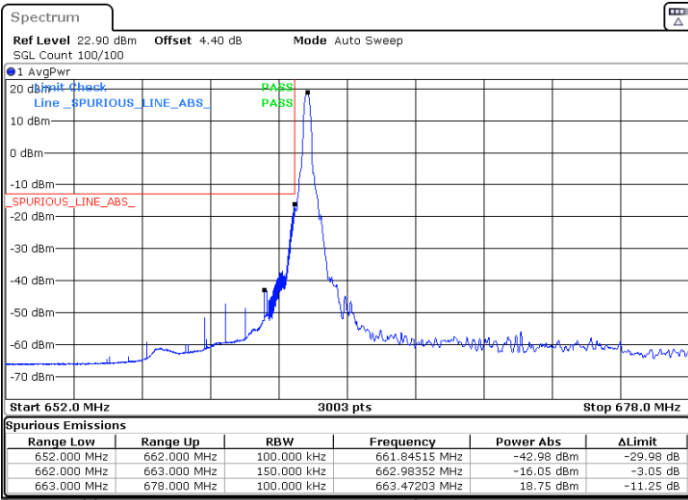
Date: 1.APR.2021 17:32:38



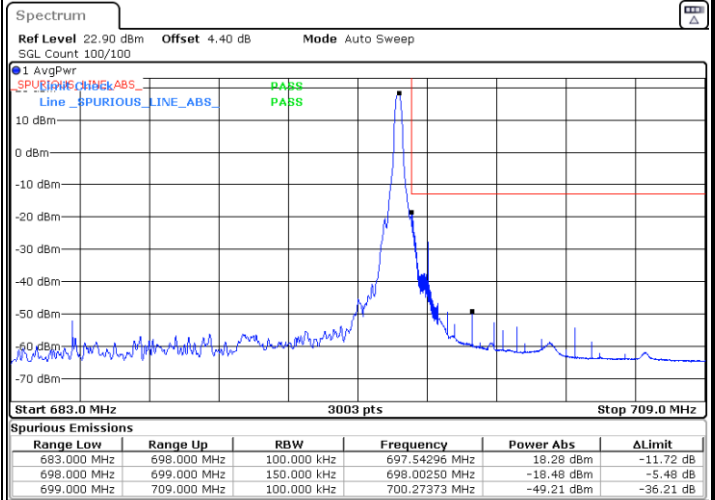
FR1 n71 / 15MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX



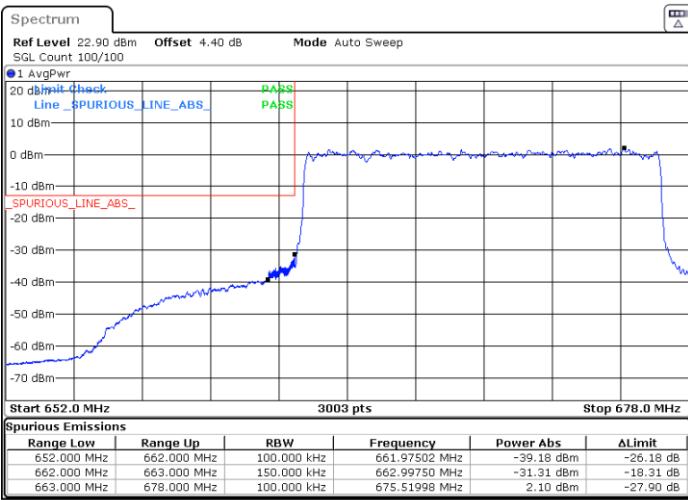
Date: 1.APR.2021 17:29:44



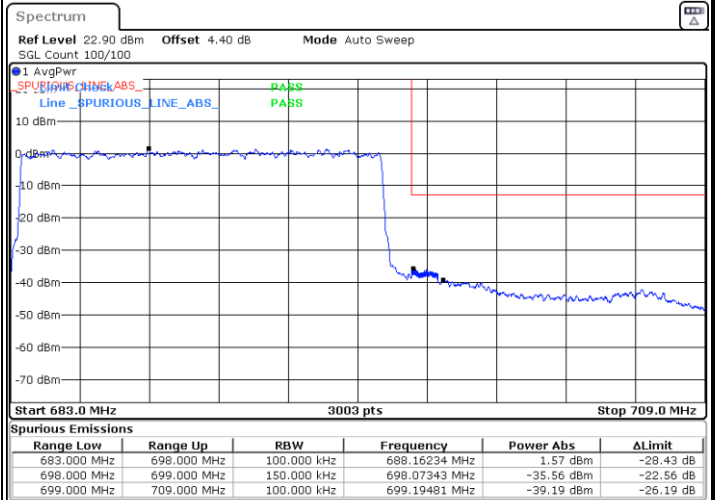
Date: 1.APR.2021 17:36:46

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 17:26:10



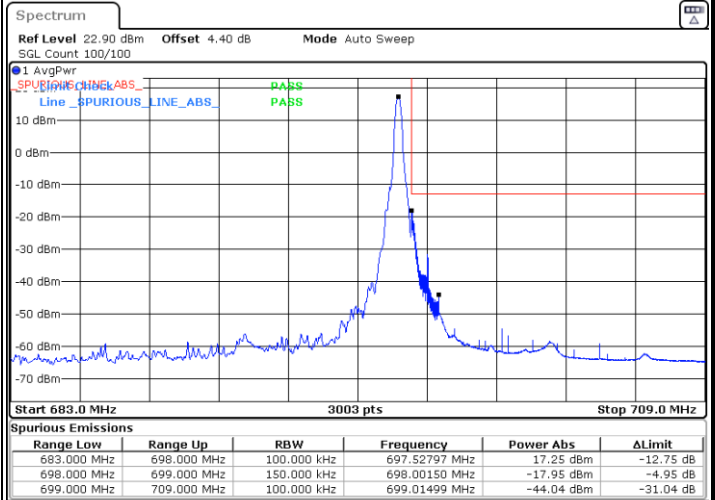
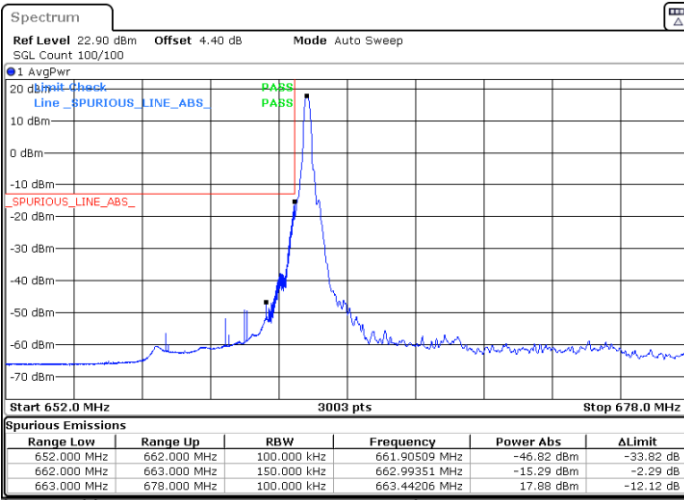
Date: 1.APR.2021 17:33:14



FR1 n71 / 15MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

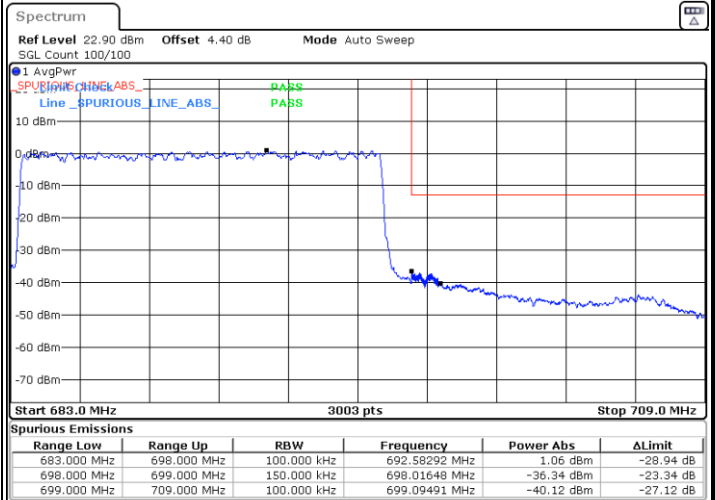
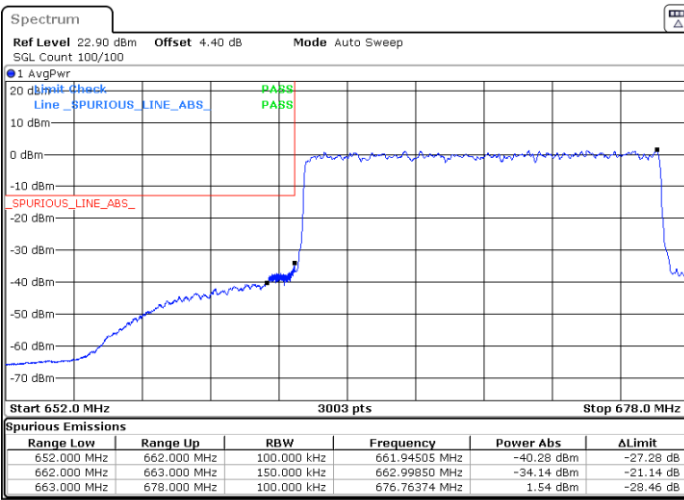


Date: 1.APR.2021 17:30:20

Date: 1.APR.2021 17:37:22

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 17:26:45

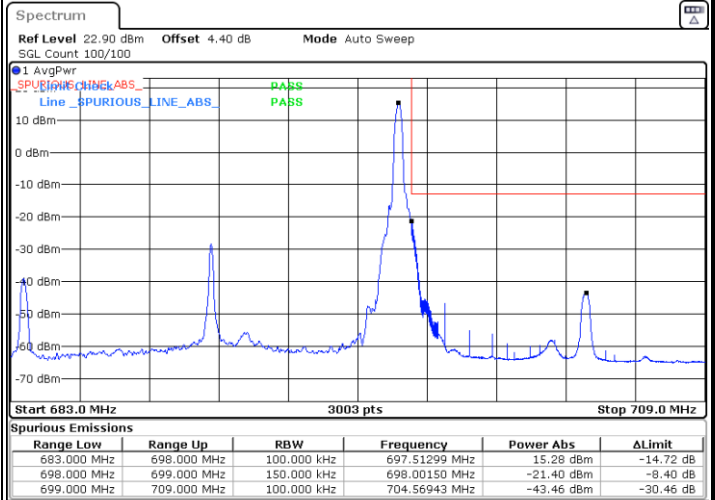
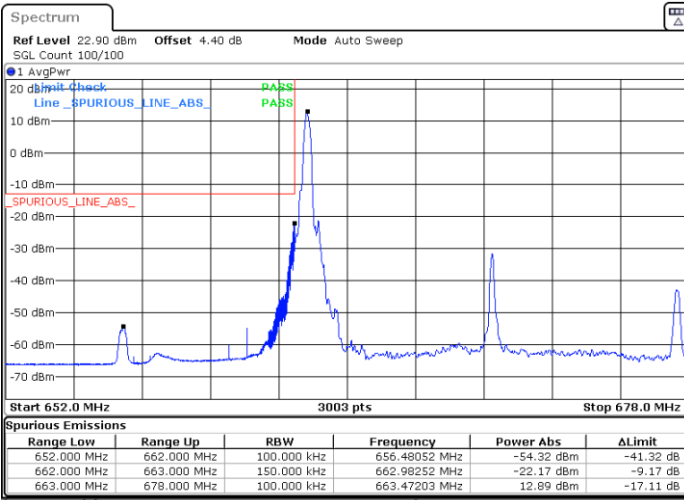
Date: 1.APR.2021 17:33:58



FR1 n71/ 15MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

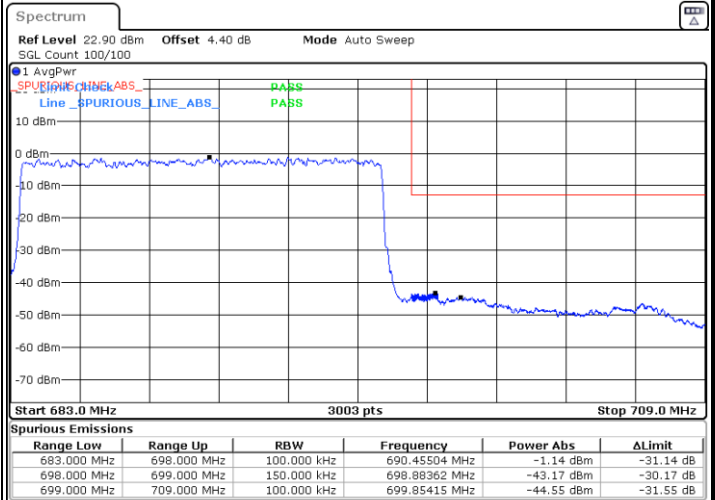
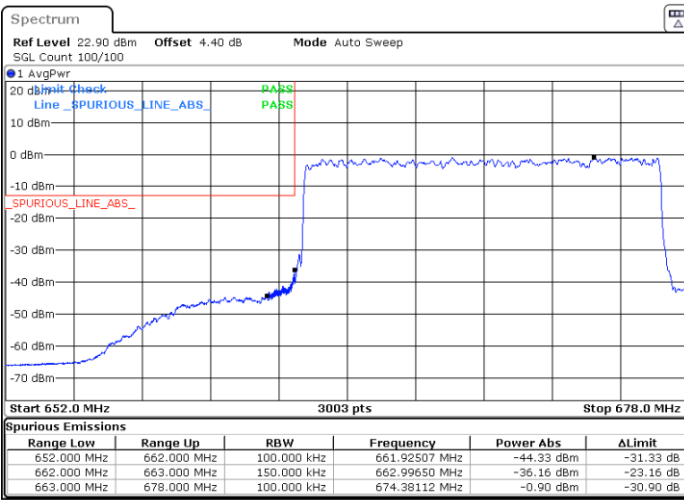


Date: 1.APR.2021 17:31:03

Date: 1.APR.2021 17:38:00

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 17:27:21

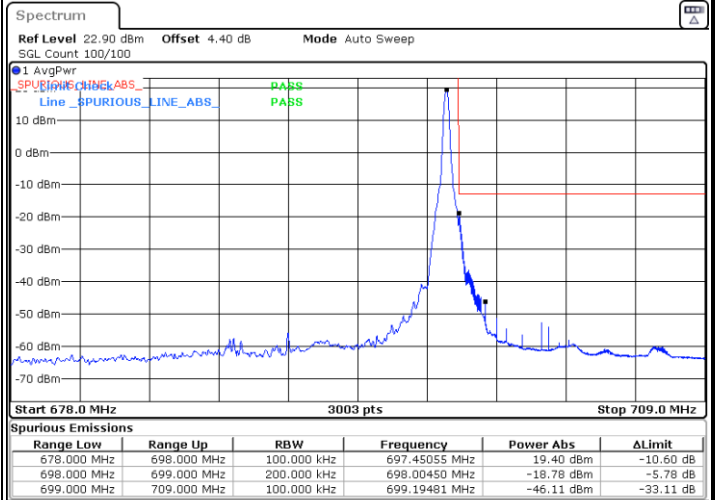
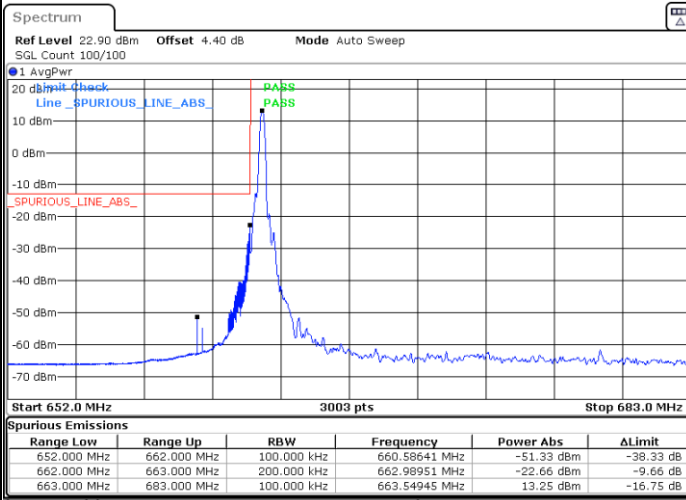
Date: 1.APR.2021 17:34:47



FR1 n71 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

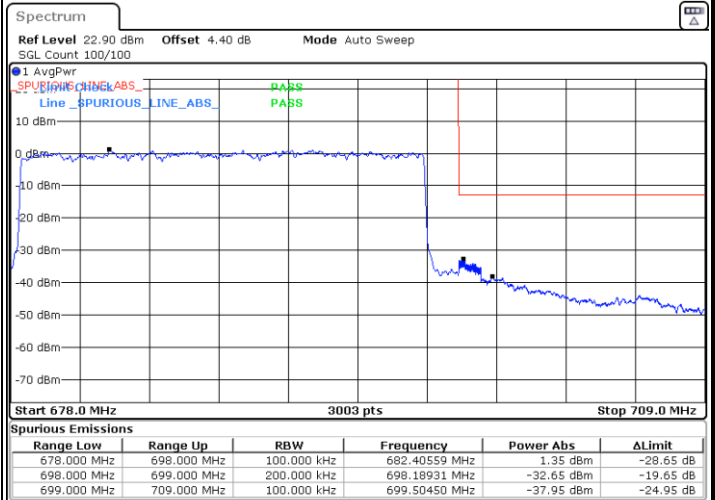
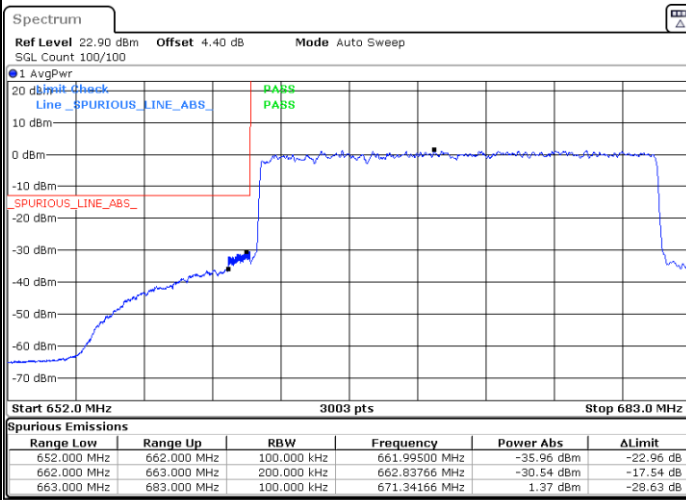


Date: 1.APR.2021 17:48:40

Date: 1.APR.2021 18:02:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 17:54:47

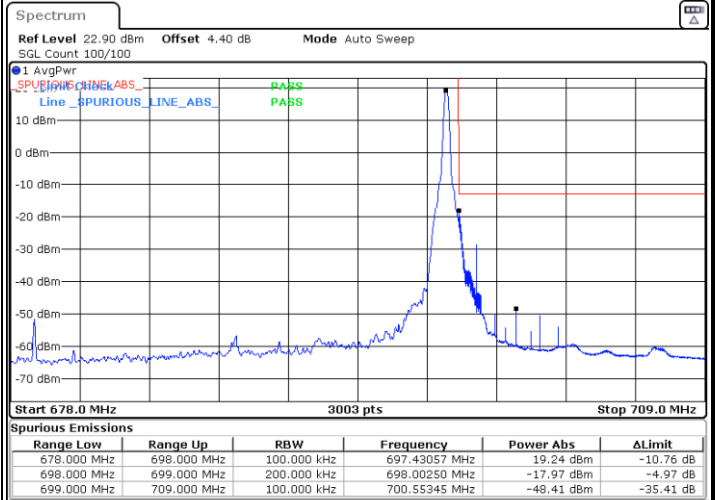
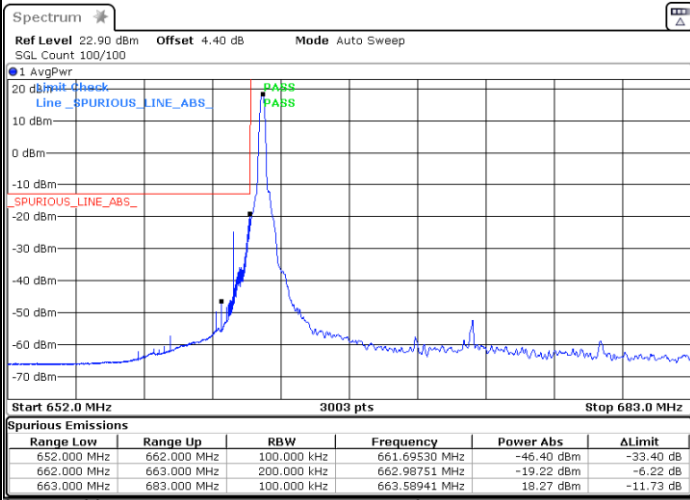
Date: 1.APR.2021 17:58:43



FR1 n71/ 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

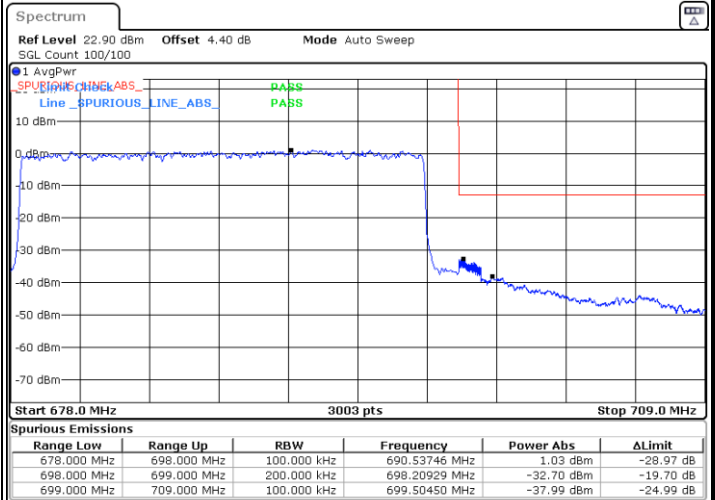
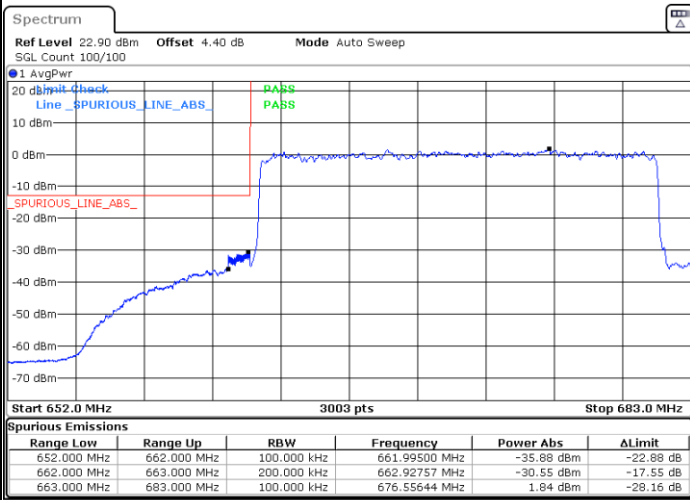


Date: 1.APR.2021 17:50:21

Date: 1.APR.2021 18:03:45

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 17:55:28

Date: 1.APR.2021 17:59:25

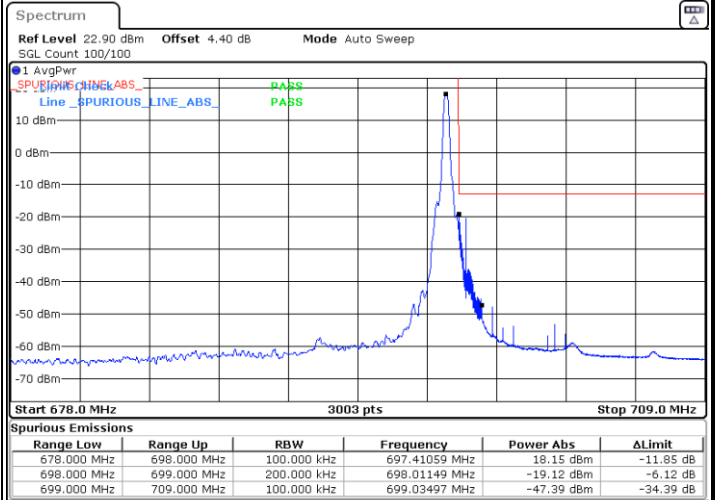
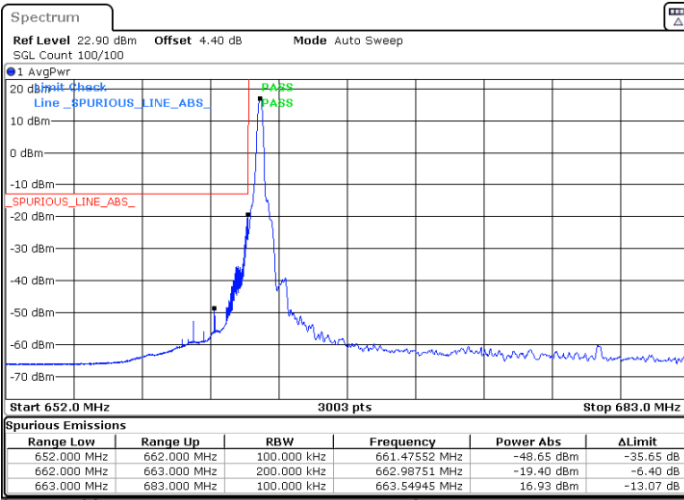




FR1 n71 / 20MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

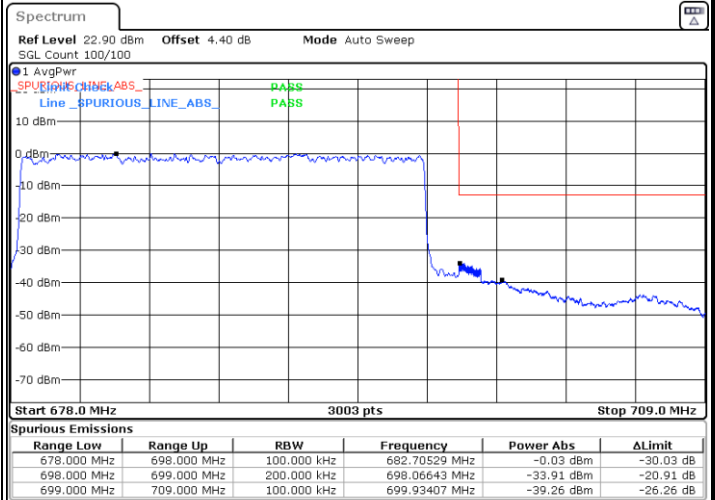
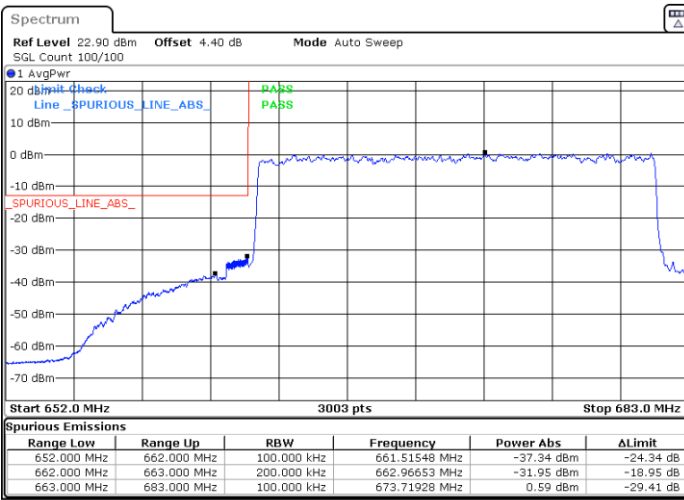


Date: 1.APR.2021 17:50:55

Date: 1.APR.2021 18:04:43

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 17:56:04

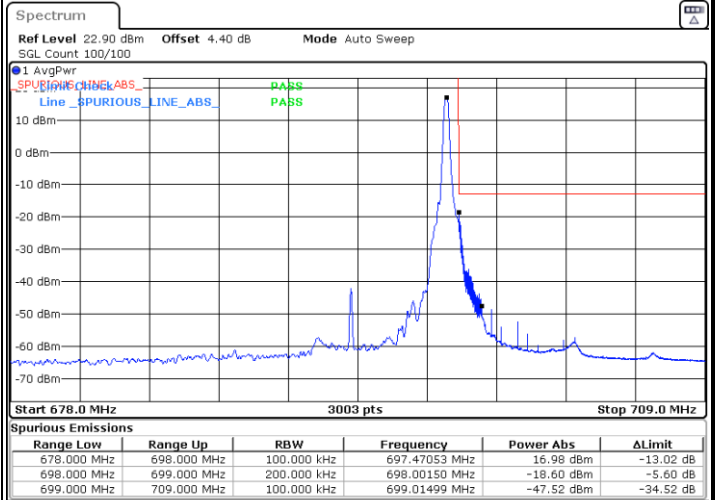
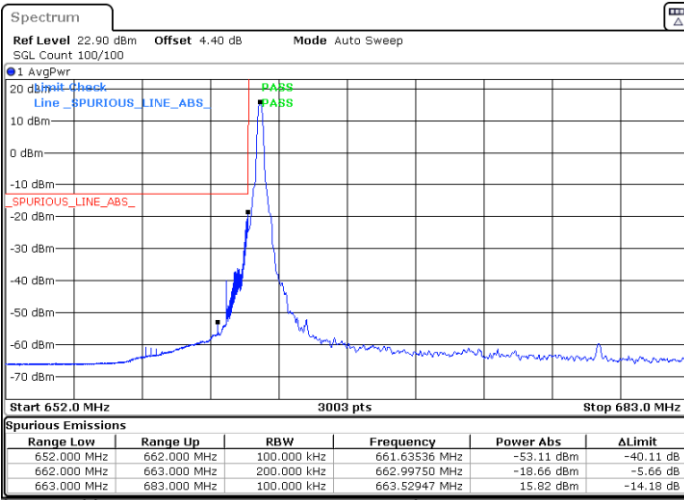
Date: 1.APR.2021 18:00:00



FR1 n71 / 20MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

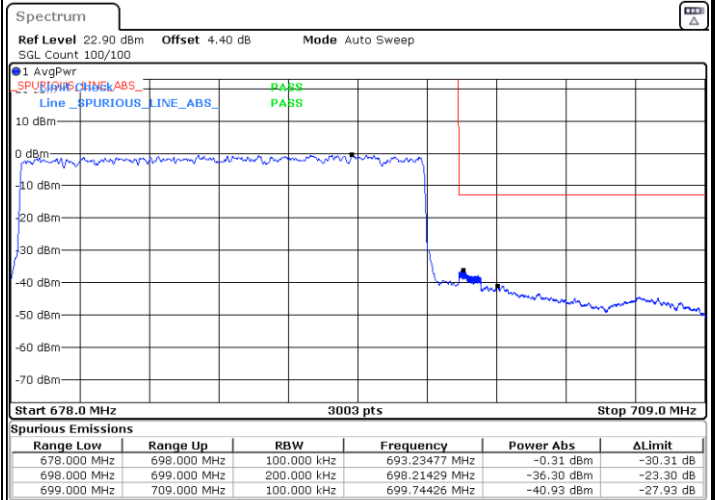
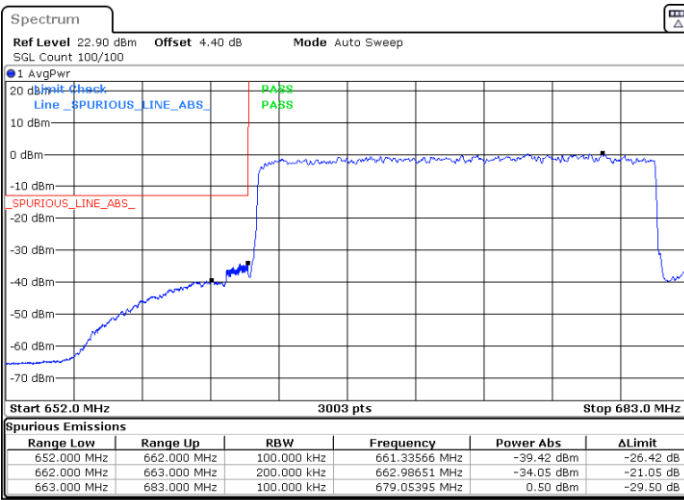


Date: 1.APR.2021 17:51:28

Date: 1.APR.2021 18:05:40

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 17:56:43

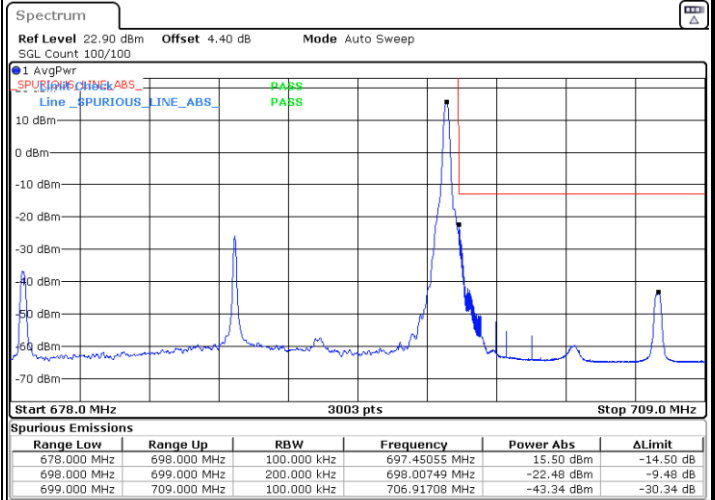
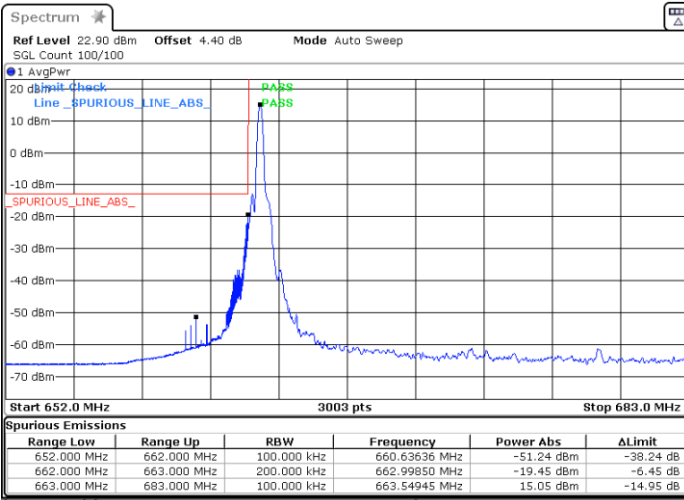
Date: 1.APR.2021 18:00:35



FR1 n71/ 20MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBMAX

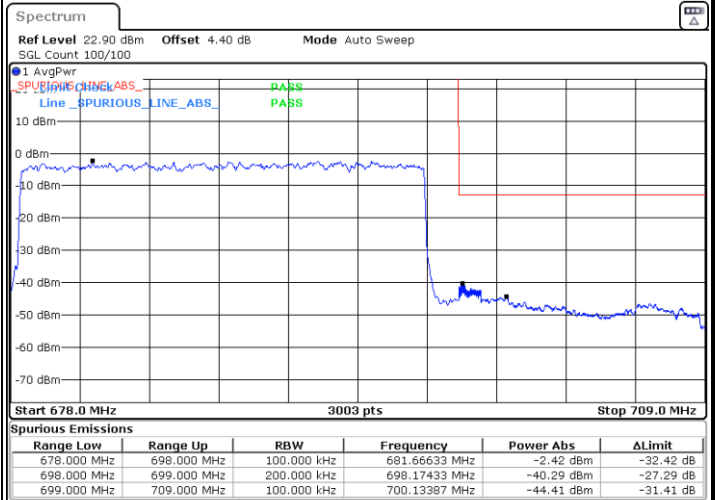
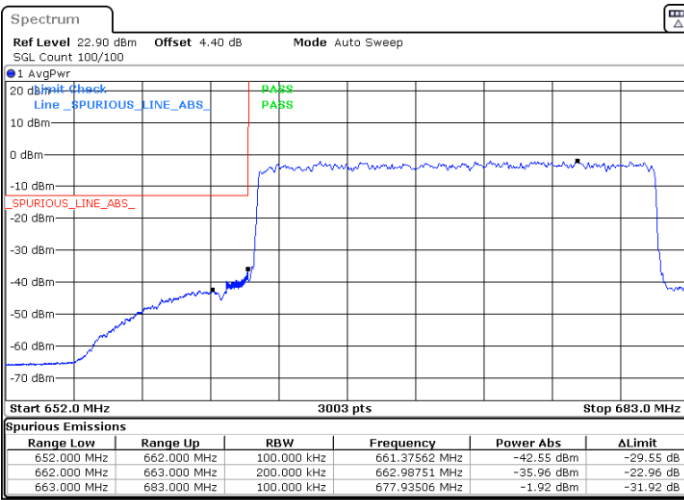


Date: 1.APR.2021 17:53:50

Date: 1.APR.2021 18:08:13

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 1.APR.2021 17:57:23

Date: 1.APR.2021 18:01:14



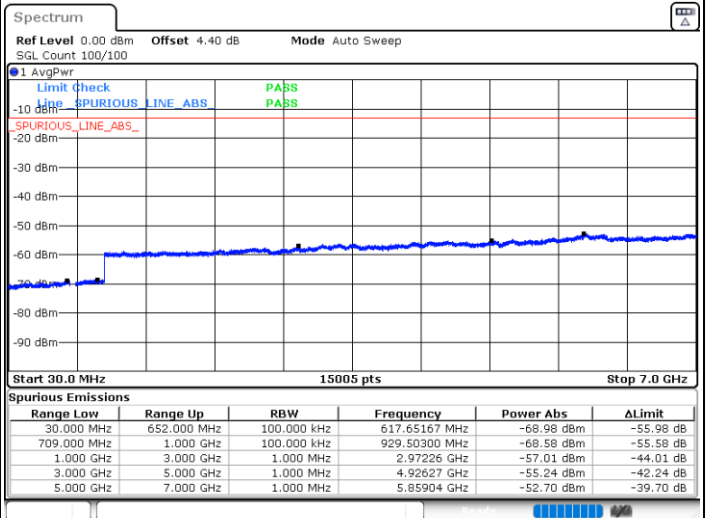
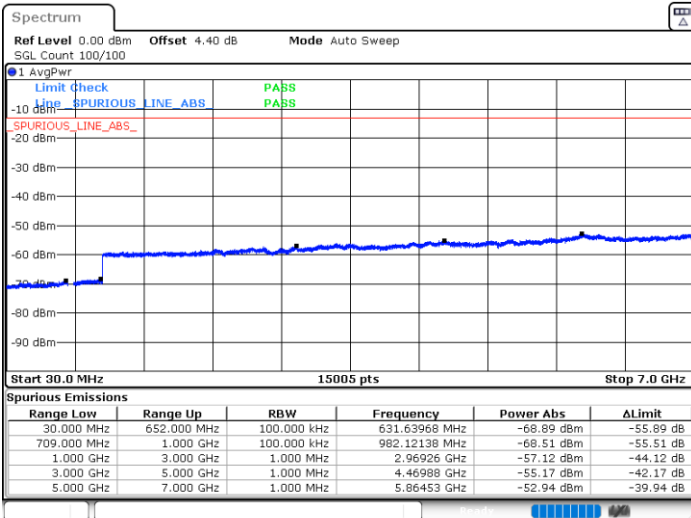
## **Conducted Spurious Emission**



FR1 n71 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

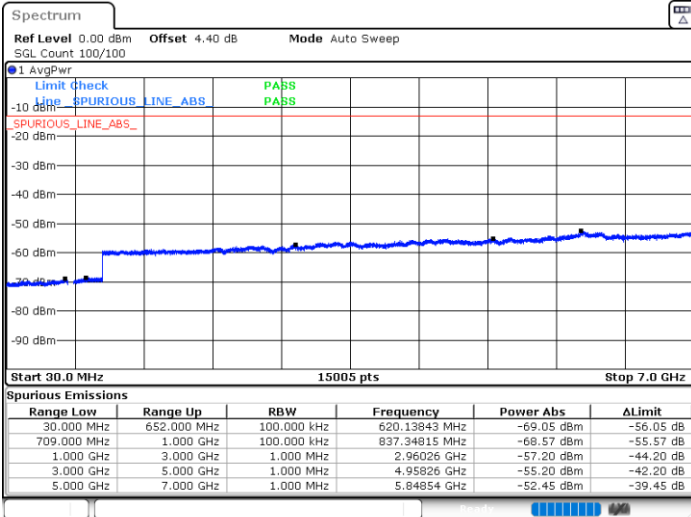
Middle Channel / 1RB1



Date: 1.APR.2021 18:29:51

Date: 1.APR.2021 18:33:27

Highest Channel / 1RB1



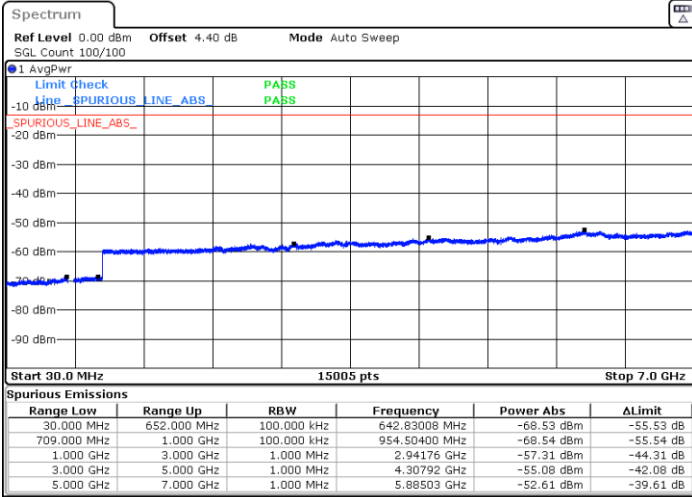
Date: 1.APR.2021 18:34:28



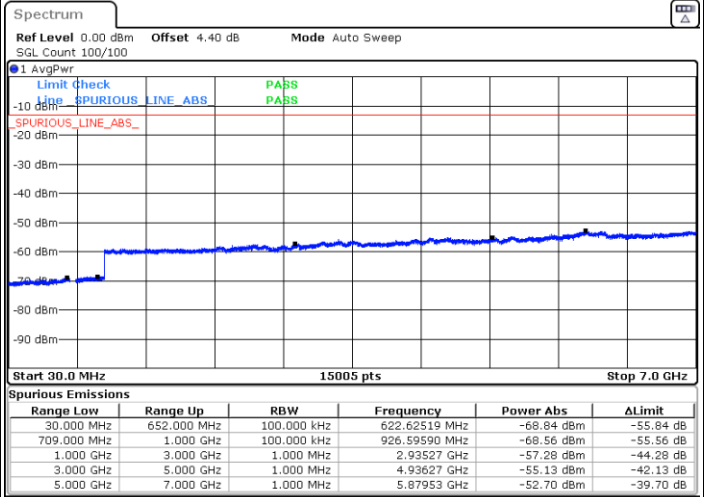
FR1 n71/ 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

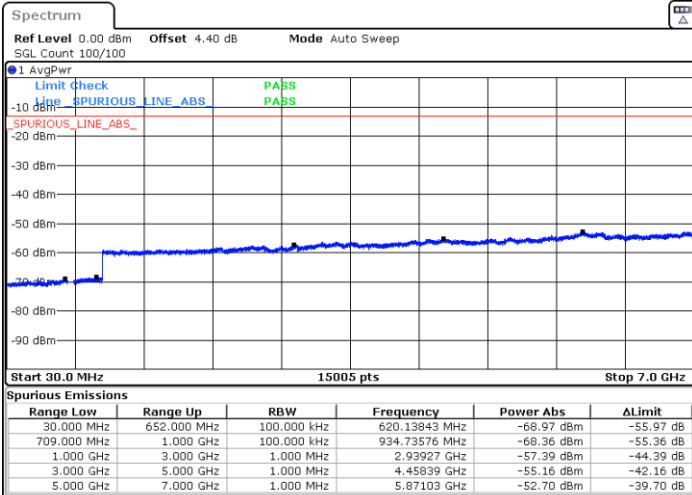


Date: 1.APR.2021 18:35:15



Date: 1.APR.2021 18:36:05

Highest Channel / 1RB1



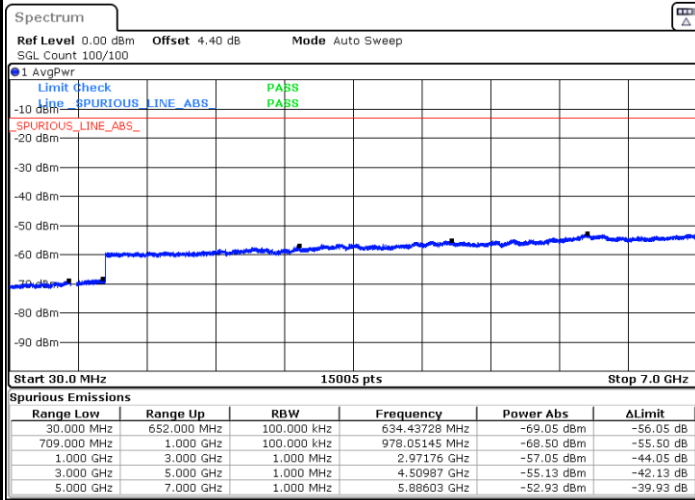
Date: 1.APR.2021 18:39:19



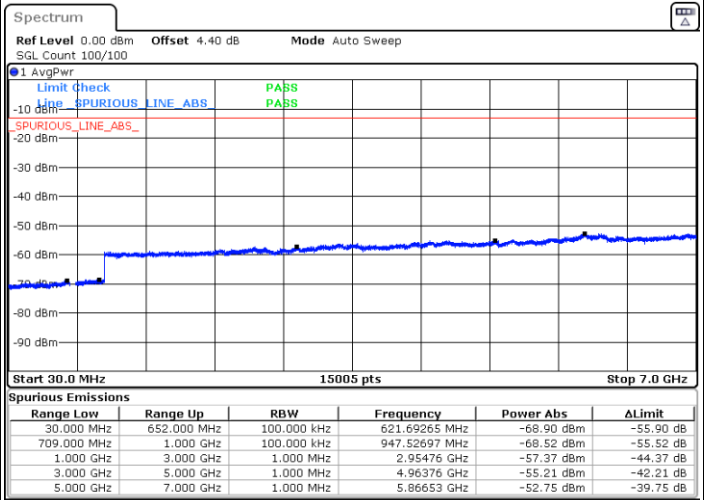
FR1 n71 / 15MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

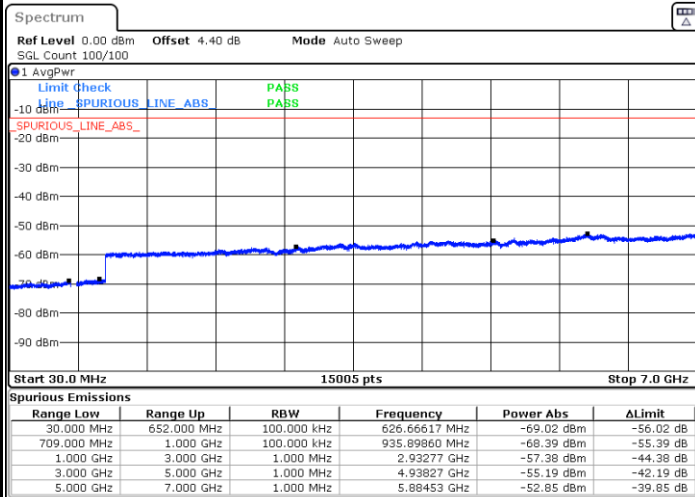


Date: 1.APR.2021 18:40:01



Date: 1.APR.2021 18:40:40

Highest Channel / 1RB1



Date: 1.APR.2021 18:41:20