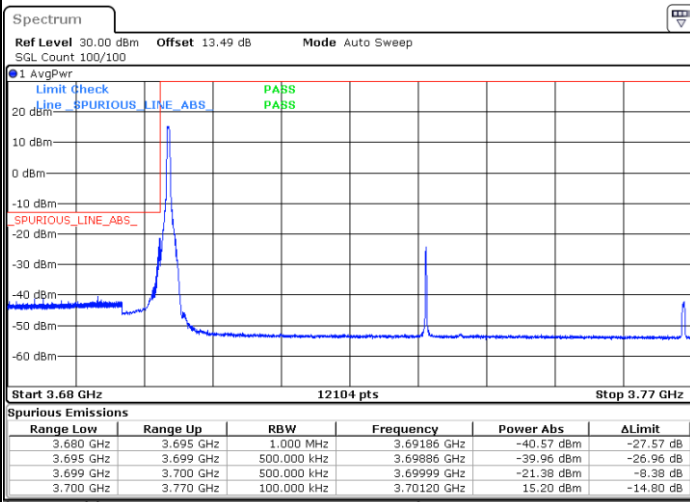




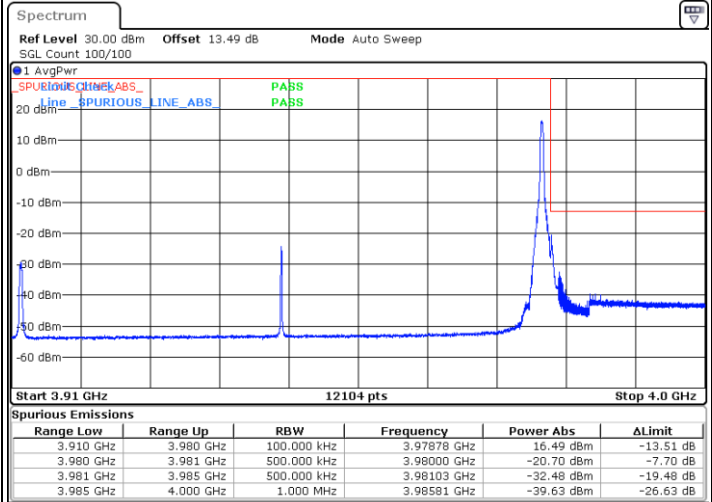
FR1 n77 / 70MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



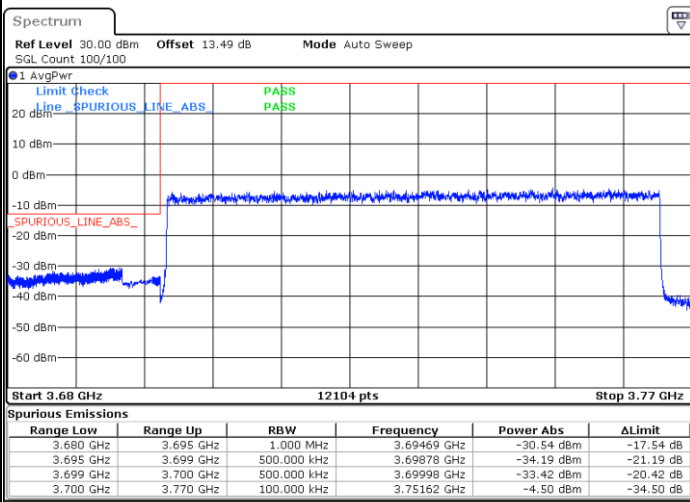
Date: 5.MAR.2022 05:40:55



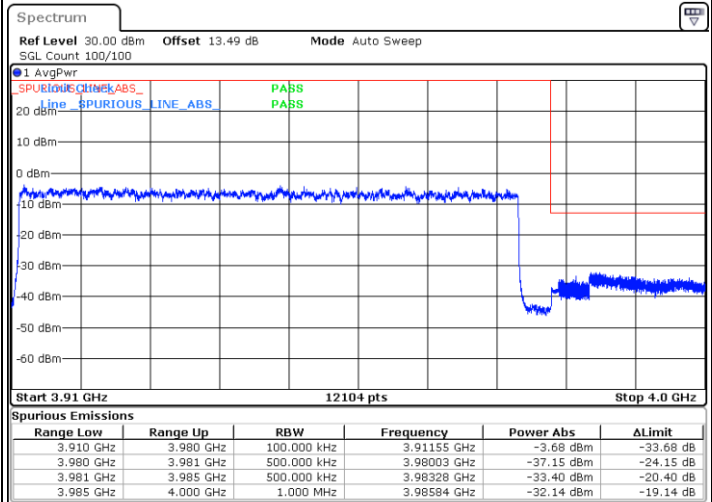
Date: 5.MAR.2022 06:10:09

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.MAR.2022 06:00:30



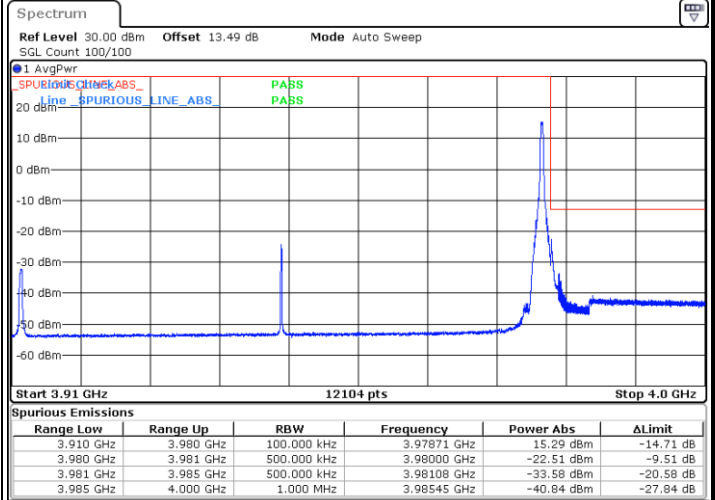
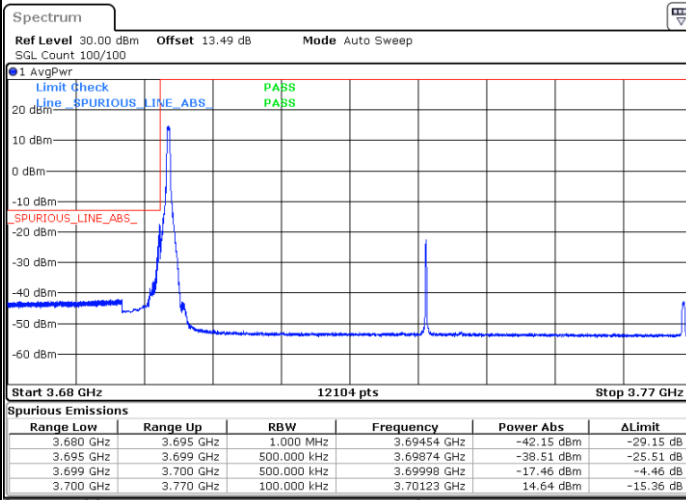
Date: 5.MAR.2022 06:04:52



FR1 n77 / 70MHz / DFT-S OFDM / 64Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

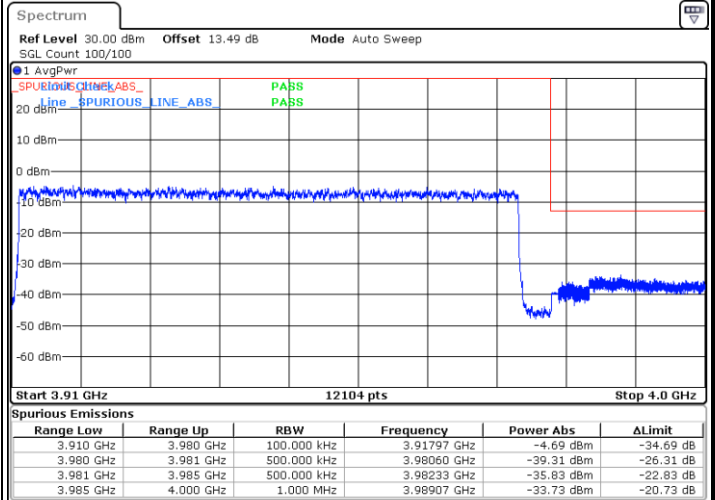
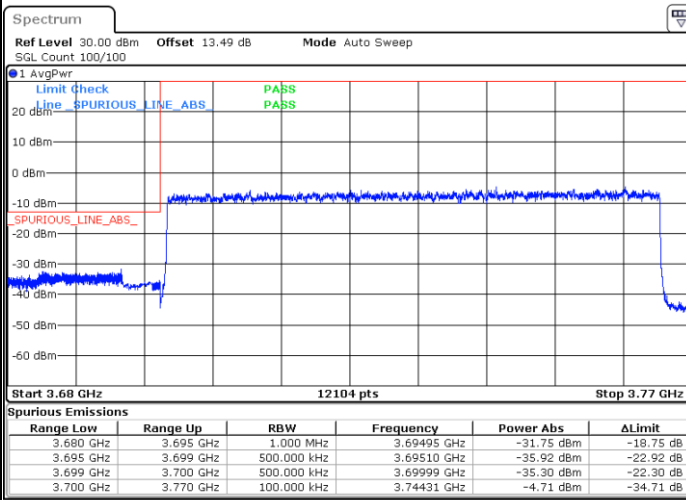


Date: 5.MAR.2022 05:41:36

Date: 5.MAR.2022 06:09:02

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.MAR.2022 05:46:41

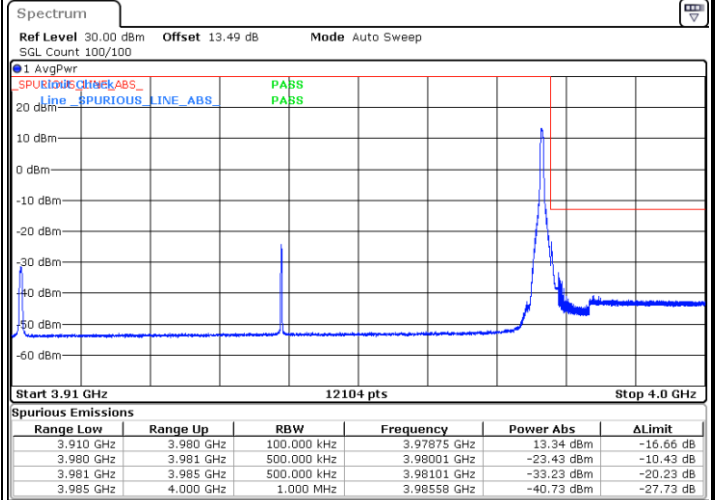
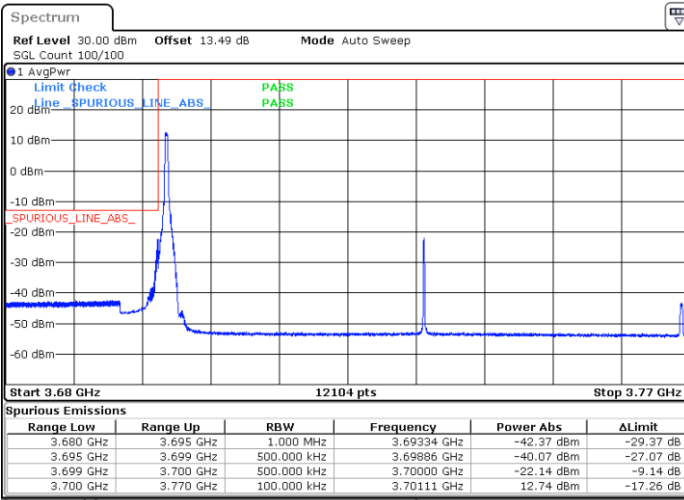
Date: 5.MAR.2022 06:05:35



FR1 n77 / 70MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

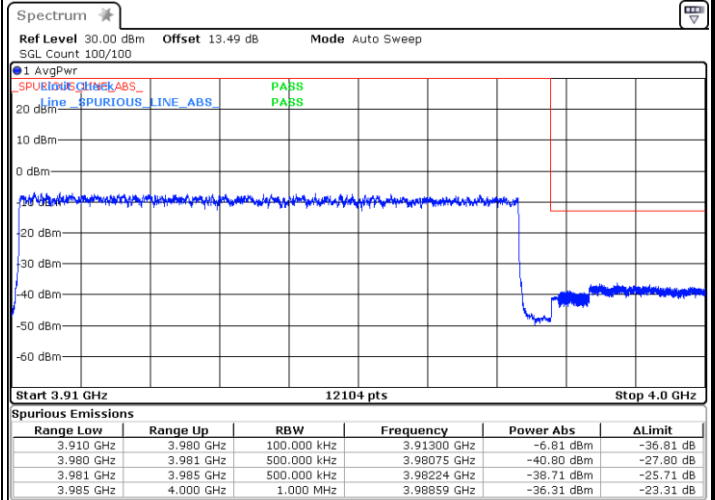
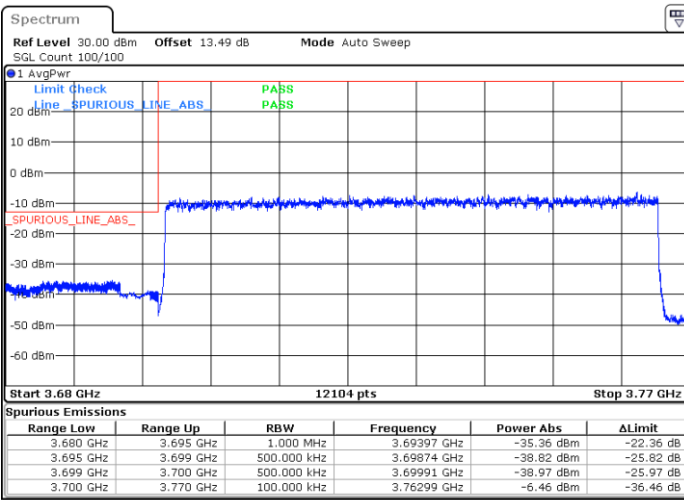


Date: 5.MAR.2022 05:42:45

Date: 5.MAR.2022 06:08:17

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.MAR.2022 05:43:34

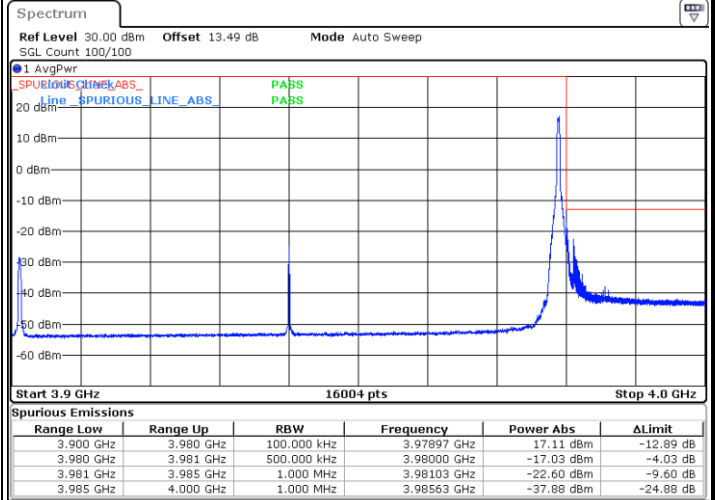
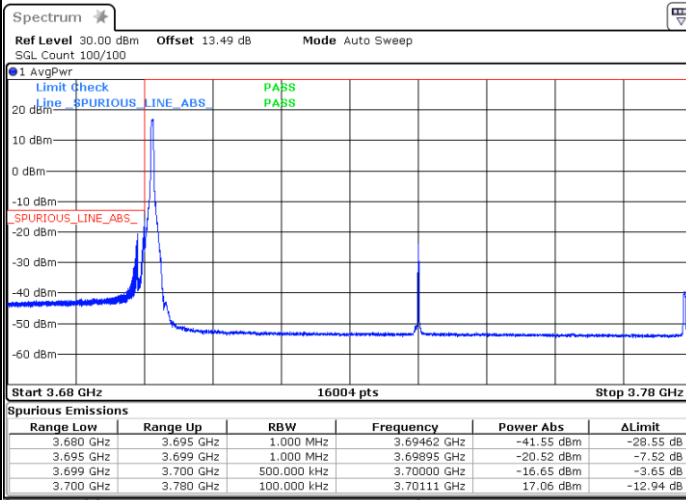
Date: 5.MAR.2022 06:07:25



FR1 n77 / 80MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

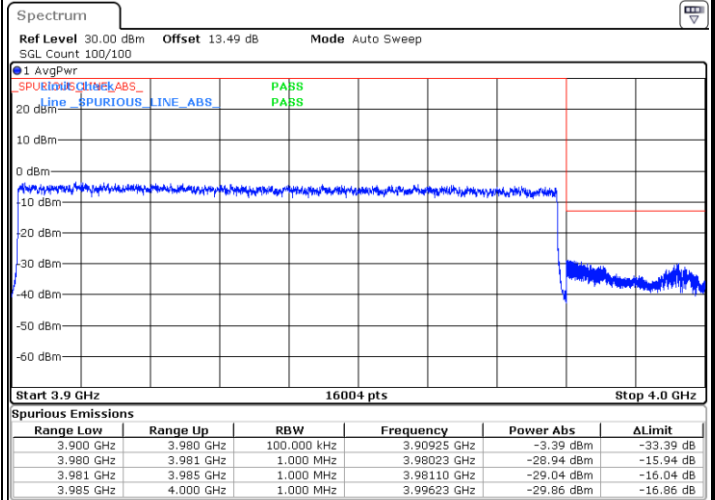
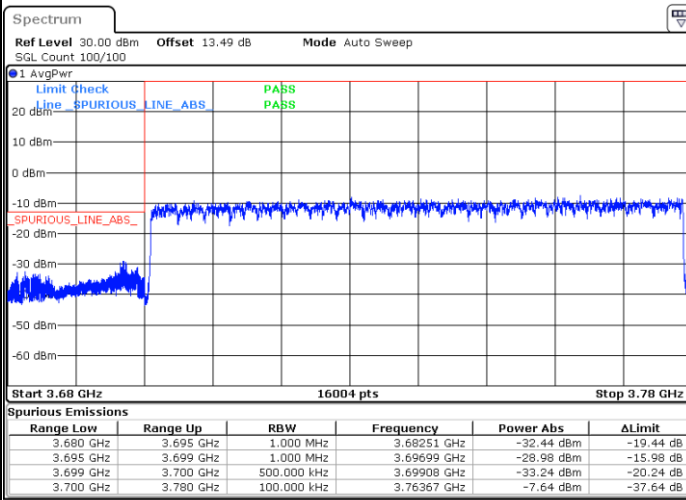


Date: 5.MAR.2022 06:34:37

Date: 5.MAR.2022 07:06:44

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.MAR.2022 06:45:39

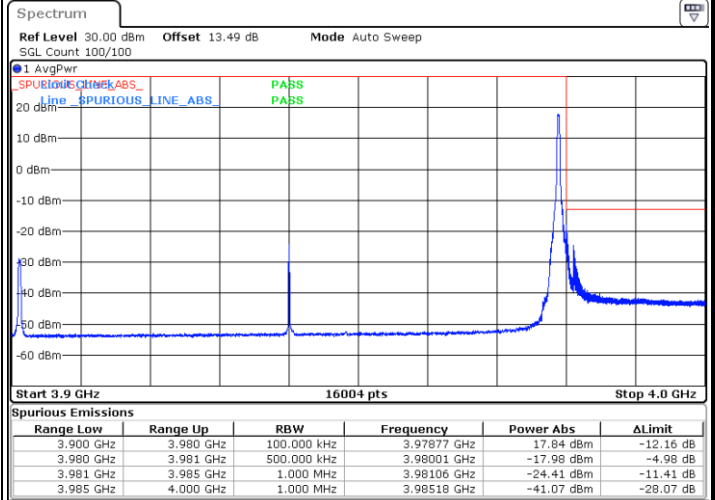
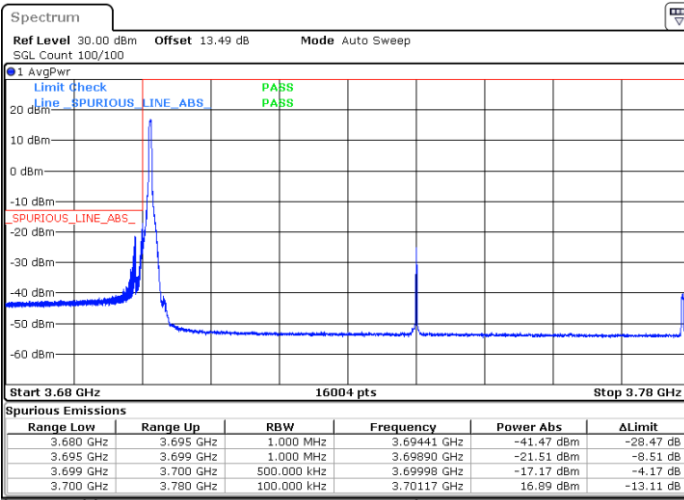
Date: 5.MAR.2022 06:56:34



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

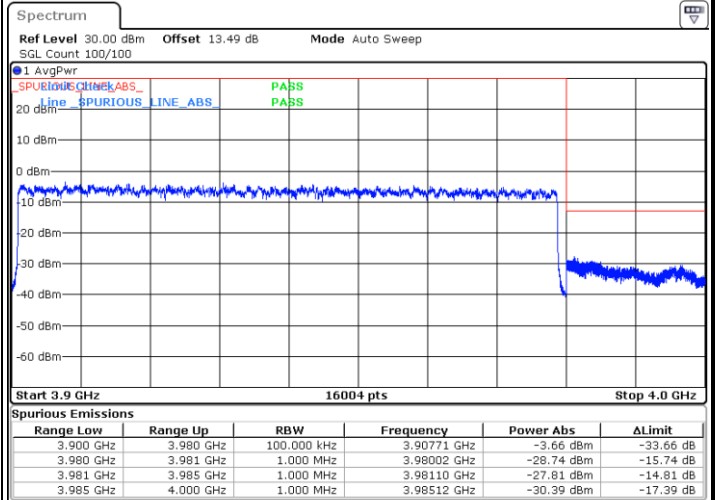
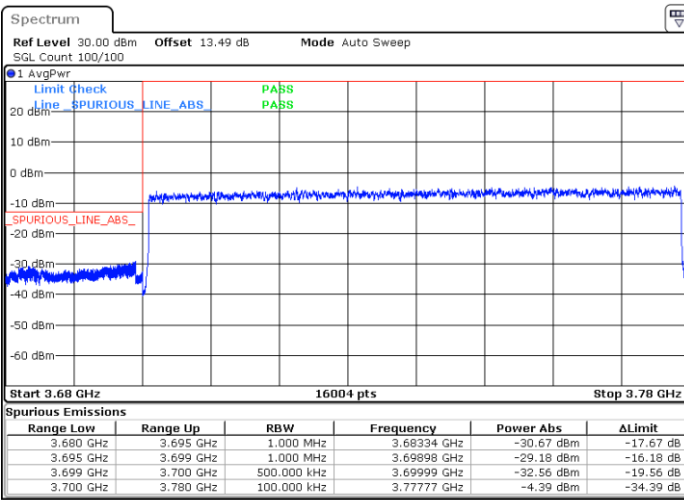


Date: 5.MAR.2022 06:35:31

Date: 5.MAR.2022 07:05:22

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.MAR.2022 06:44:28

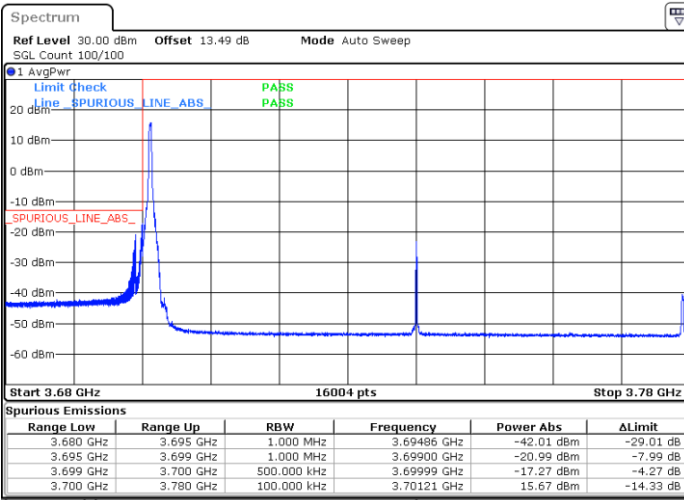
Date: 5.MAR.2022 06:57:14



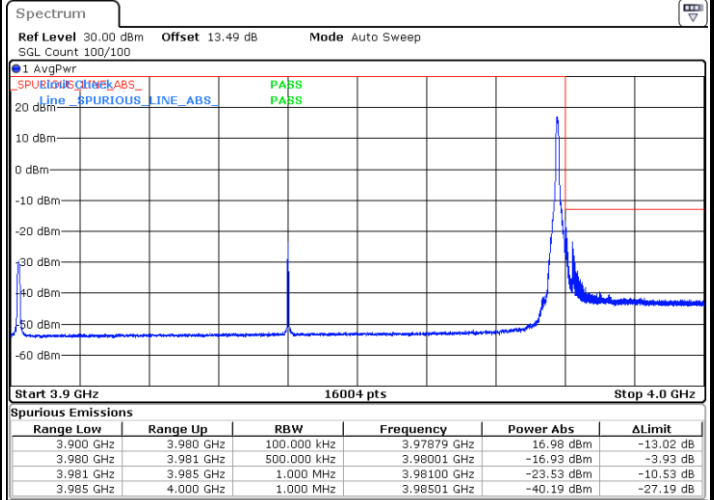
FR1 n77 / 80MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



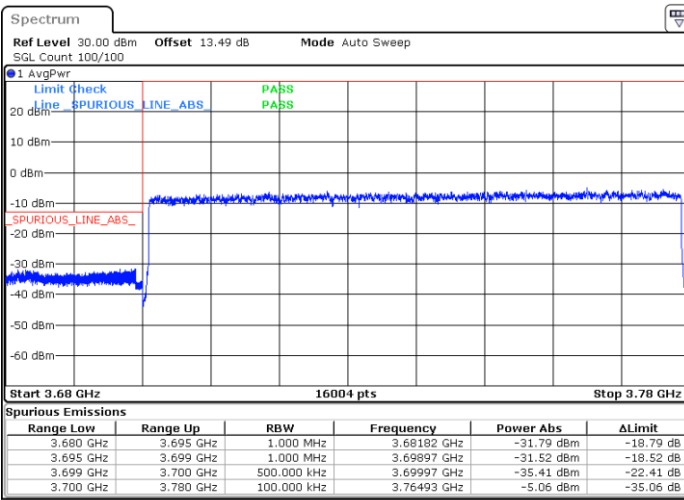
Date: 5.MAR.2022 06:36:57



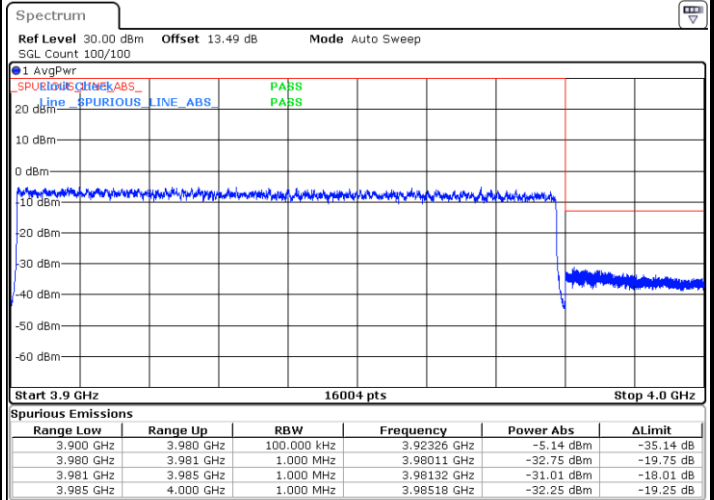
Date: 5.MAR.2022 07:04:46

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.MAR.2022 06:43:48



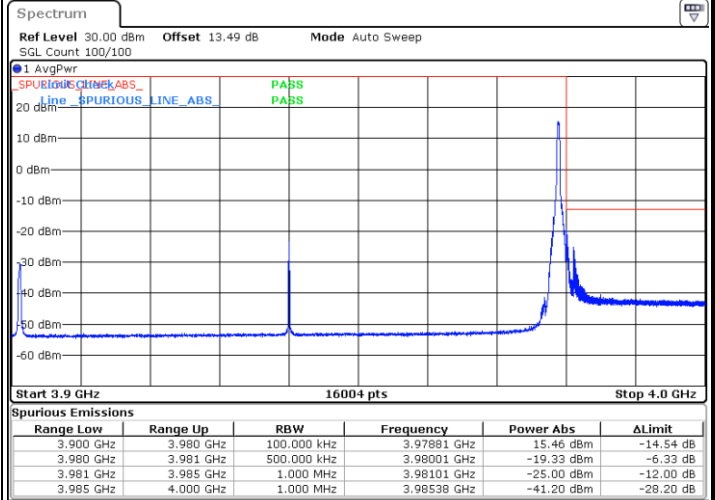
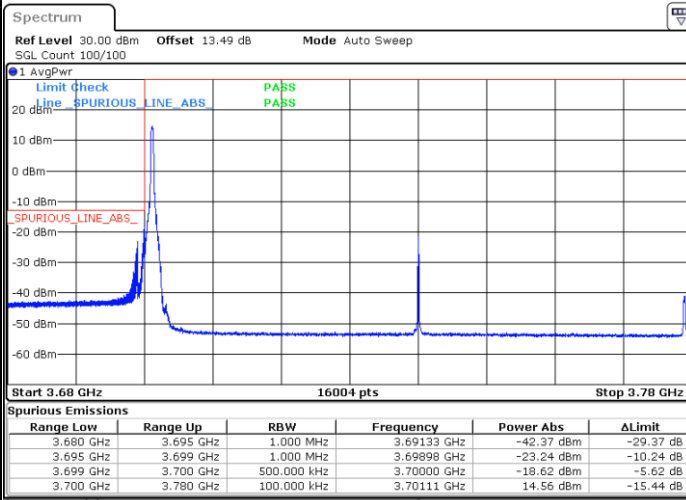
Date: 5.MAR.2022 06:59:29



FR1 n77 / 80MHz / DFT-S OFDM / 64Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

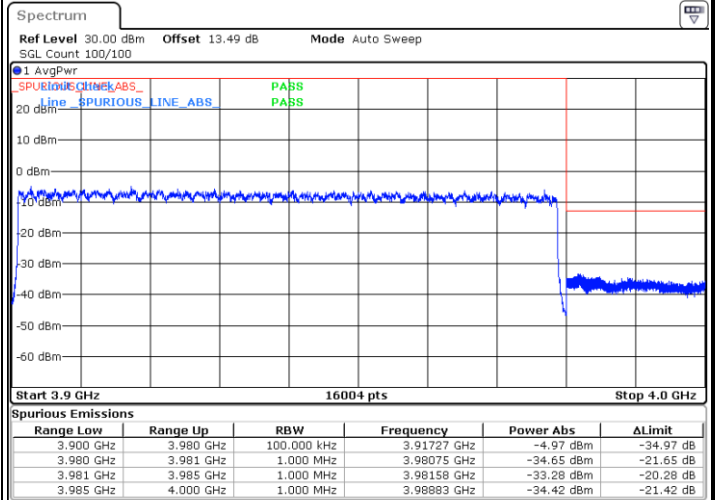
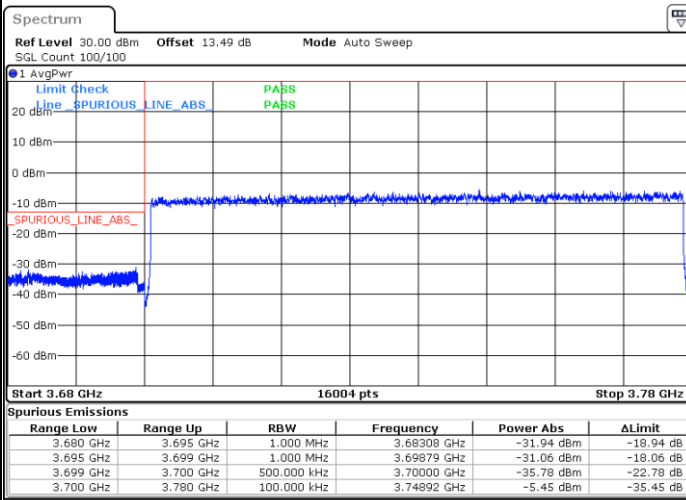


Date: 5.MAR.2022 06:37:58

Date: 5.MAR.2022 07:04:08

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.MAR.2022 06:43:06

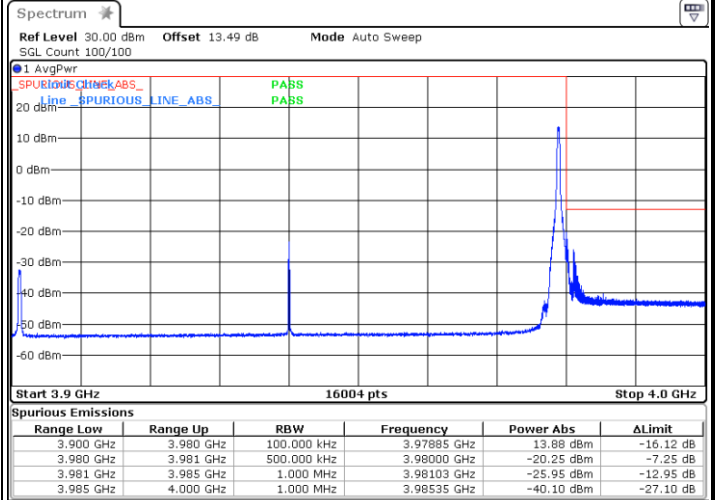
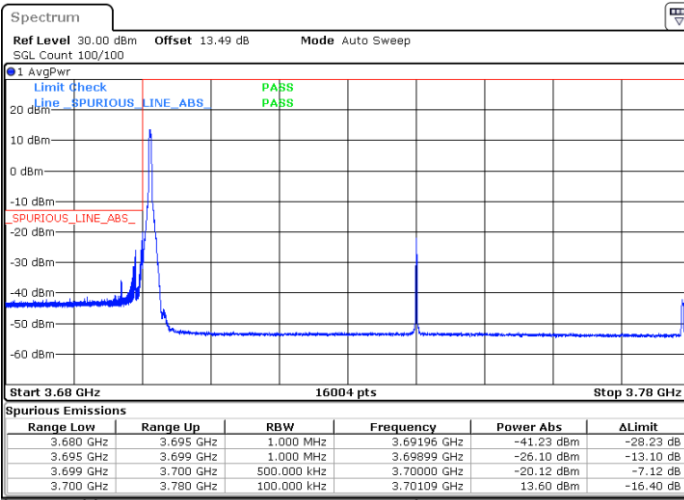
Date: 5.MAR.2022 07:00:10



FR1 n77 / 80MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

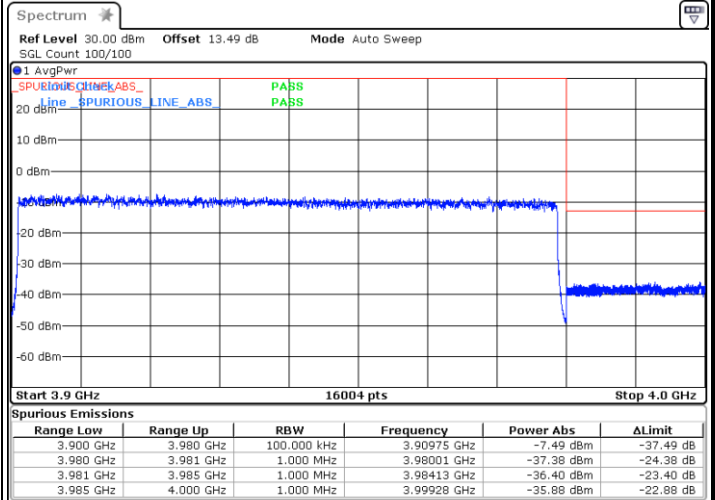
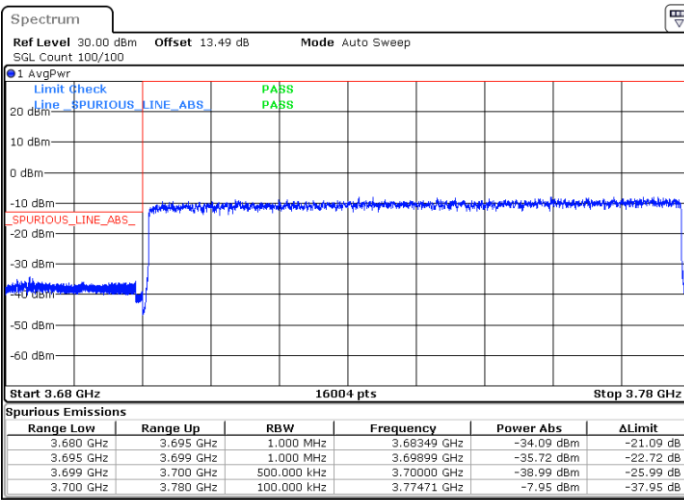


Date: 5.MAR.2022 06:40:11

Date: 5.MAR.2022 07:03:27

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.MAR.2022 06:40:54

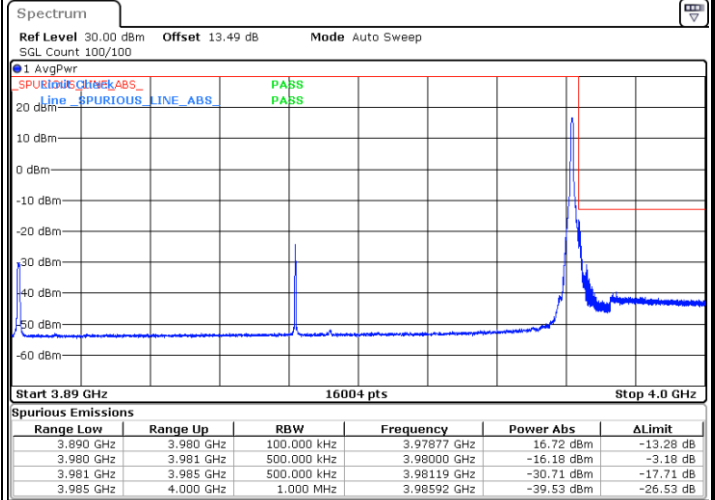
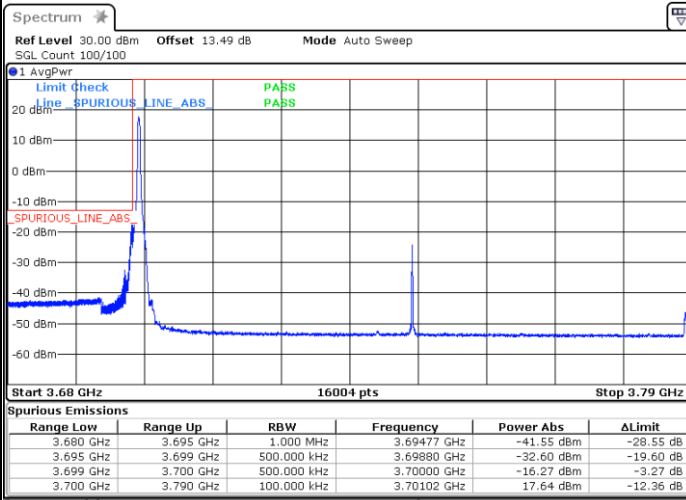
Date: 5.MAR.2022 07:01:38



FR1 n77 / 90MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

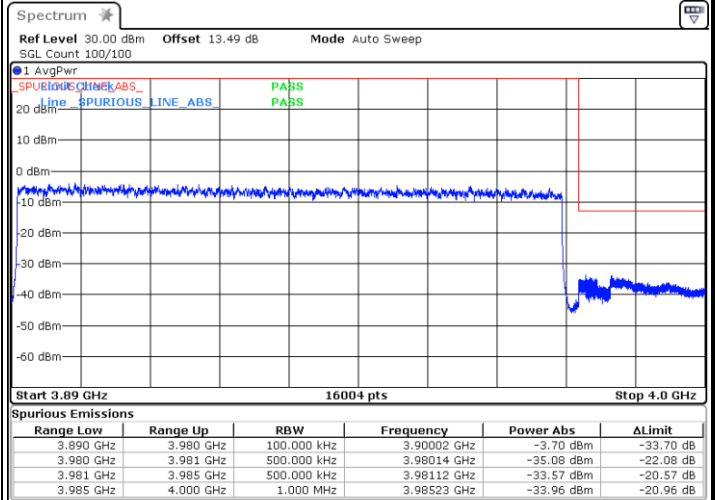
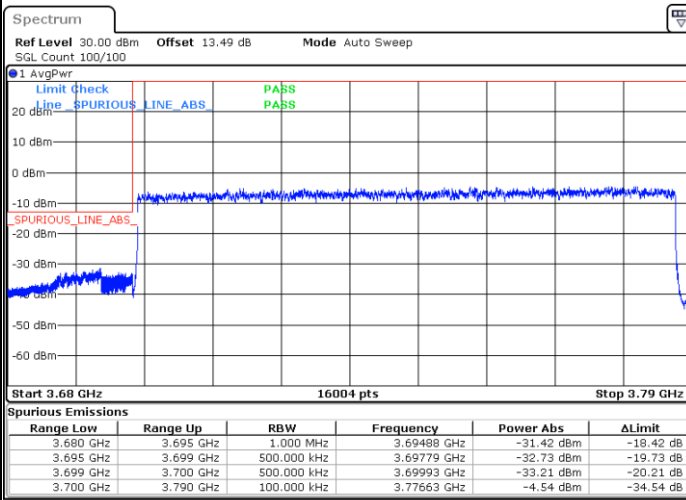


Date: 5.MAR.2022 07:13:32

Date: 5.MAR.2022 07:33:32

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.MAR.2022 07:22:52

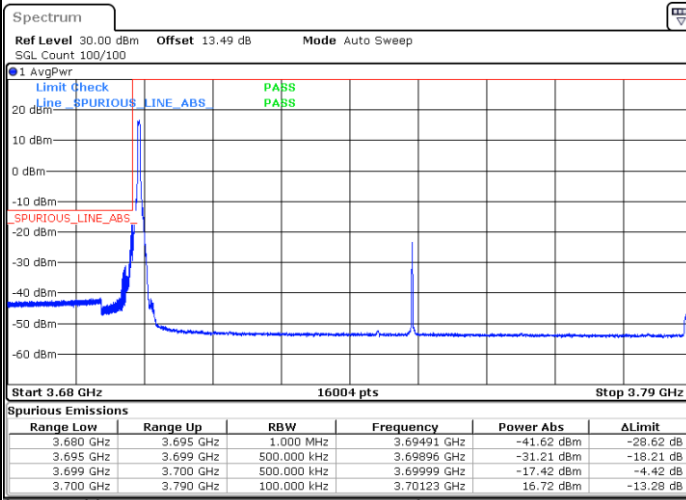
Date: 5.MAR.2022 07:24:18



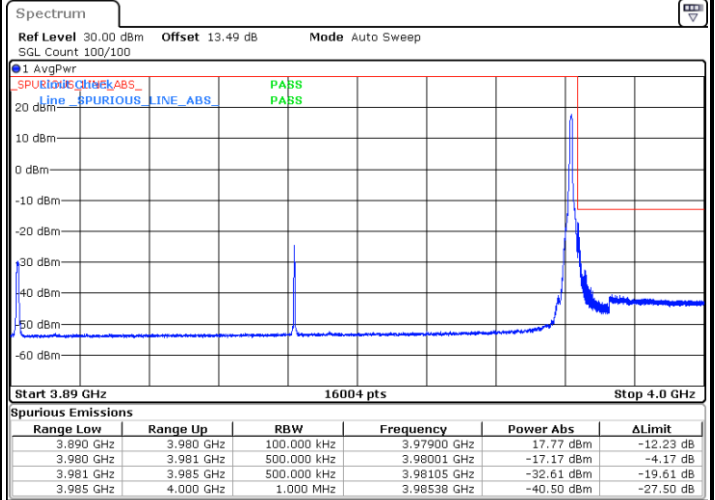
FR1 n77 / 90MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



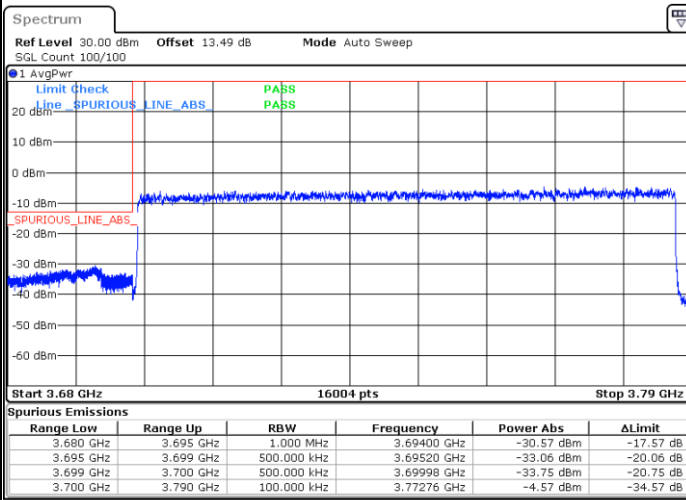
Date: 5.MAR.2022 07:14:16



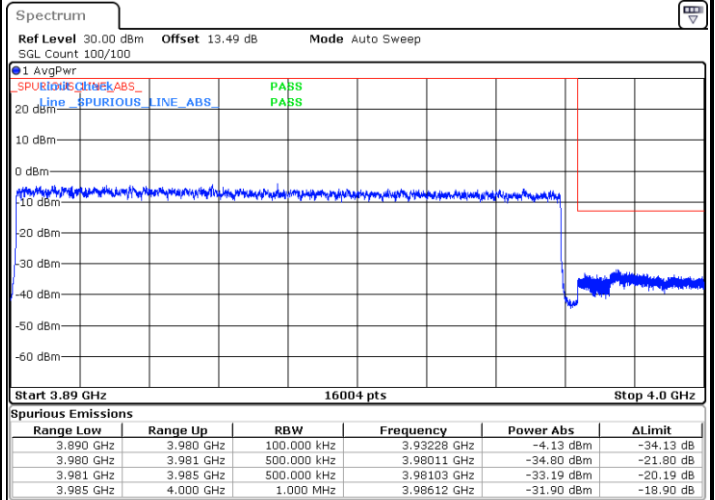
Date: 5.MAR.2022 07:31:49

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.MAR.2022 07:21:00



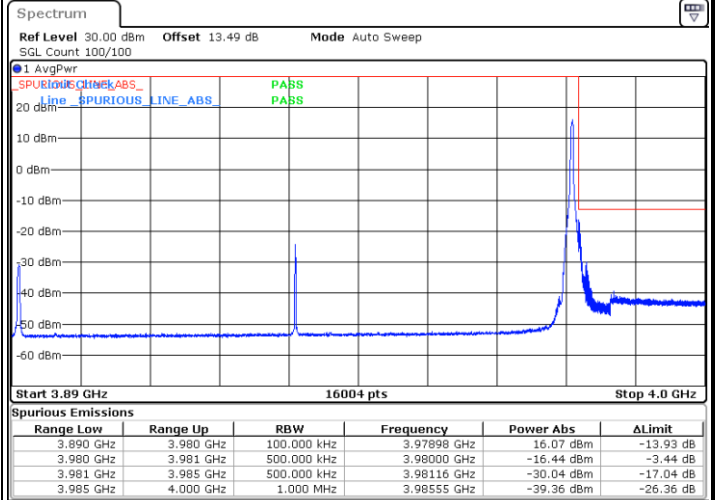
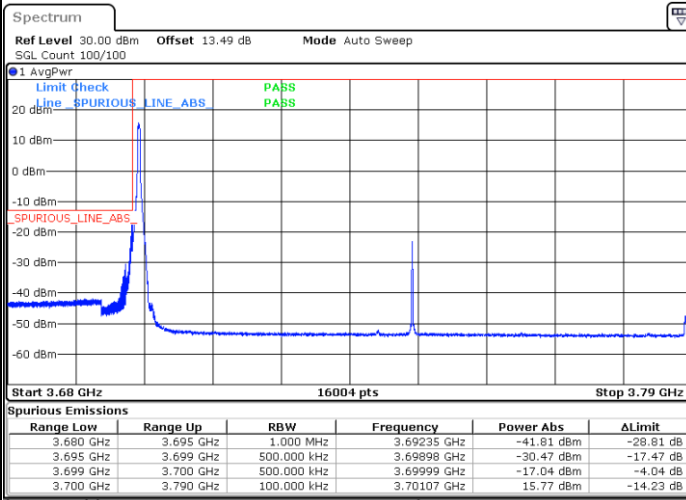
Date: 5.MAR.2022 07:24:59



FR1 n77 / 90MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

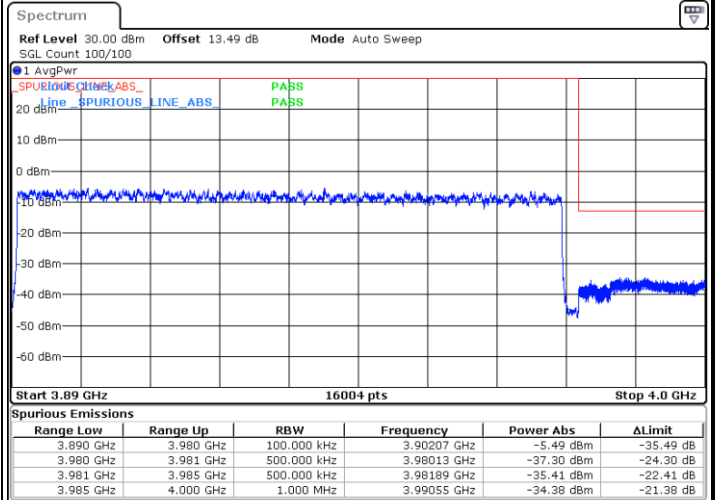
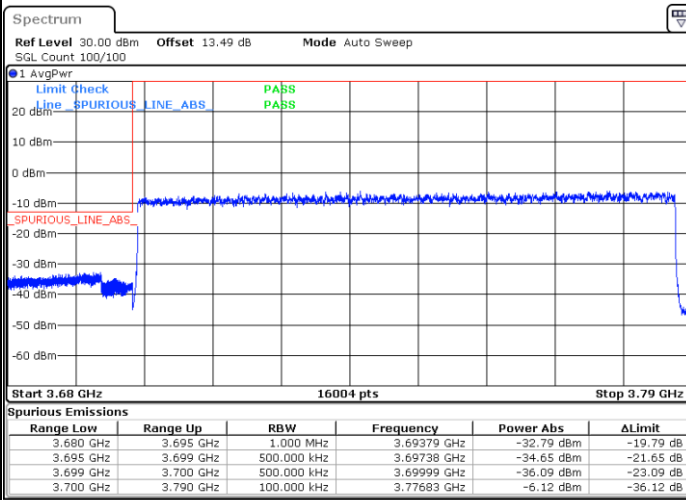


Date: 5.MAR.2022 07:14:54

Date: 5.MAR.2022 07:30:32

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.MAR.2022 07:20:15

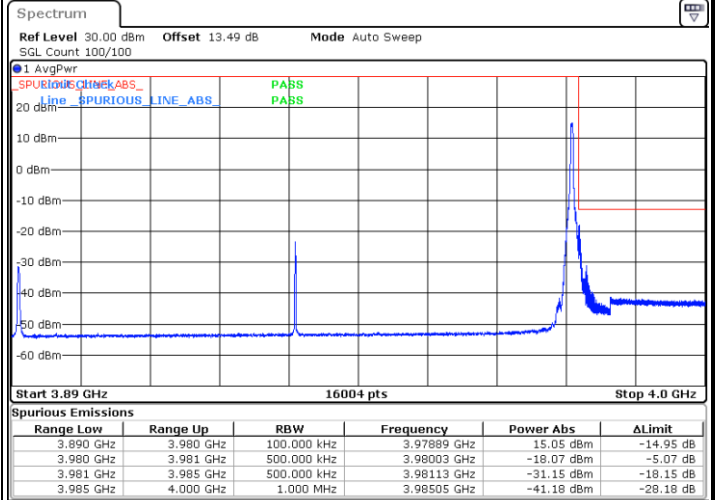
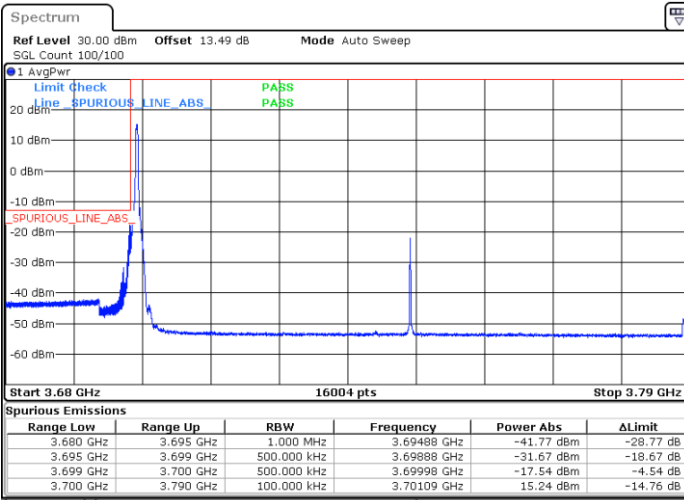
Date: 5.MAR.2022 07:25:57



FR1 n77 / 90MHz / DFT-S OFDM / 64Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

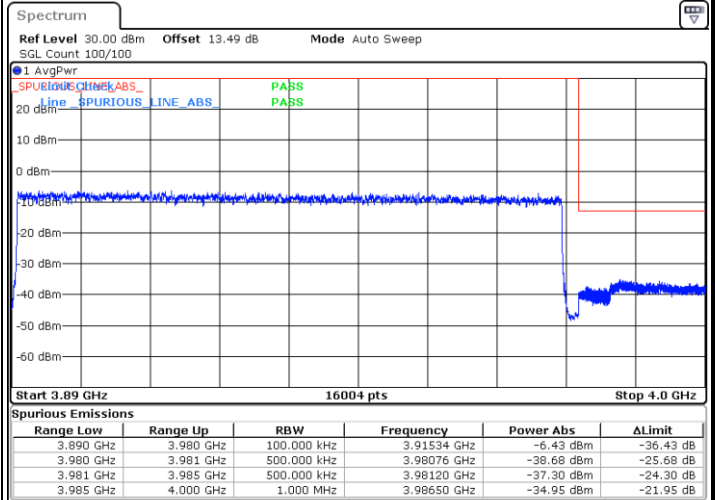
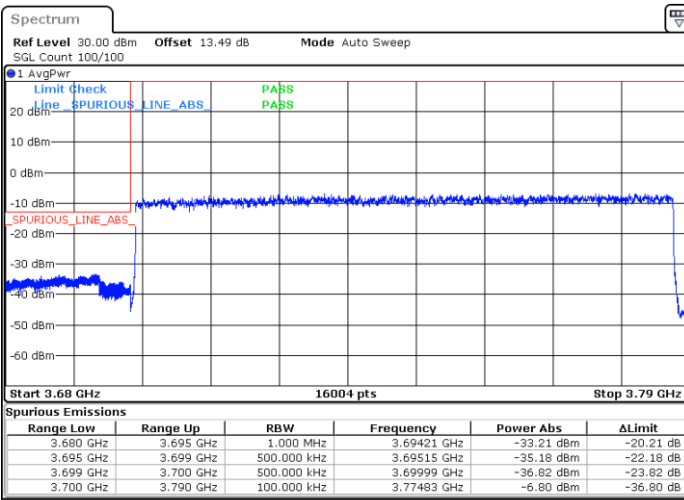


Date: 5.MAR.2022 07:15:31

Date: 5.MAR.2022 07:29:41

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.MAR.2022 07:18:52

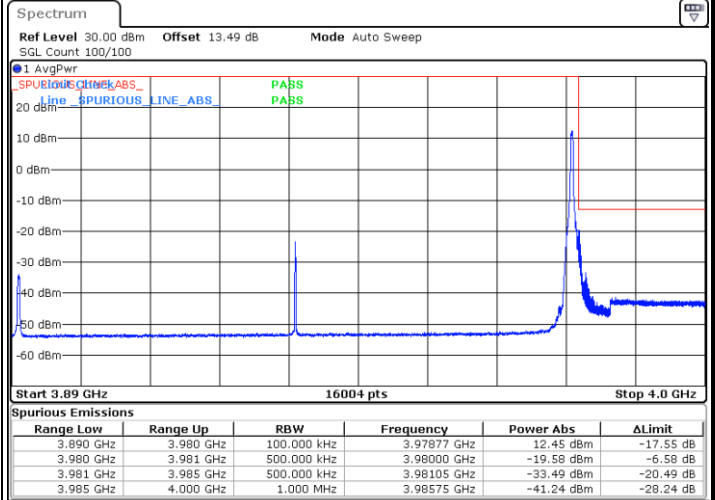
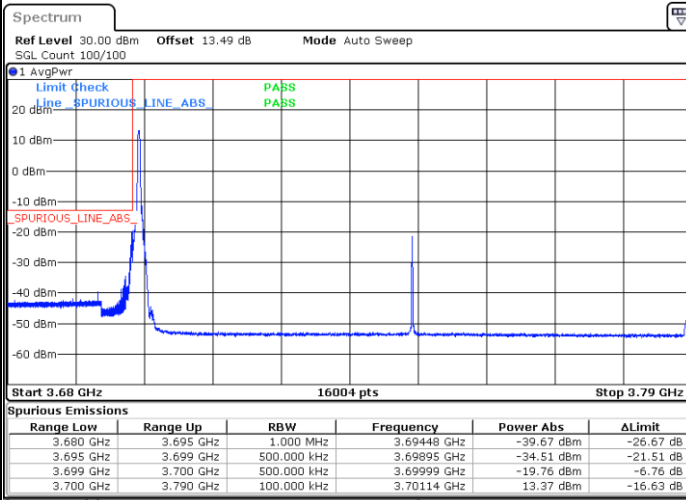
Date: 5.MAR.2022 07:26:52



FR1 n77 / 90MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

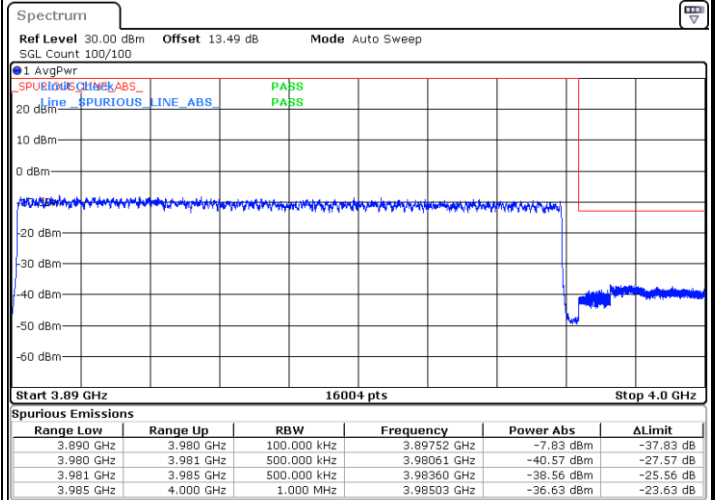
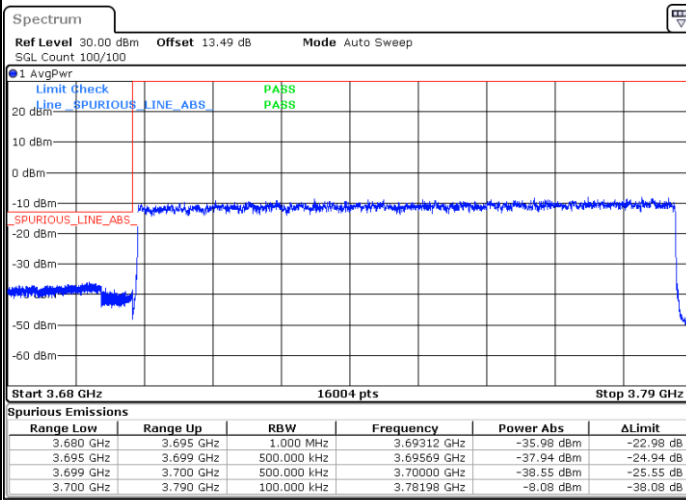


Date: 5.MAR.2022 07:16:37

Date: 5.MAR.2022 07:28:47

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.MAR.2022 07:18:11

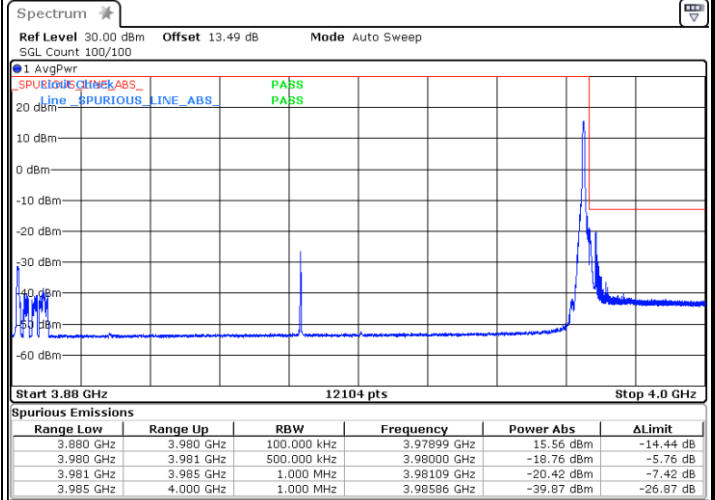
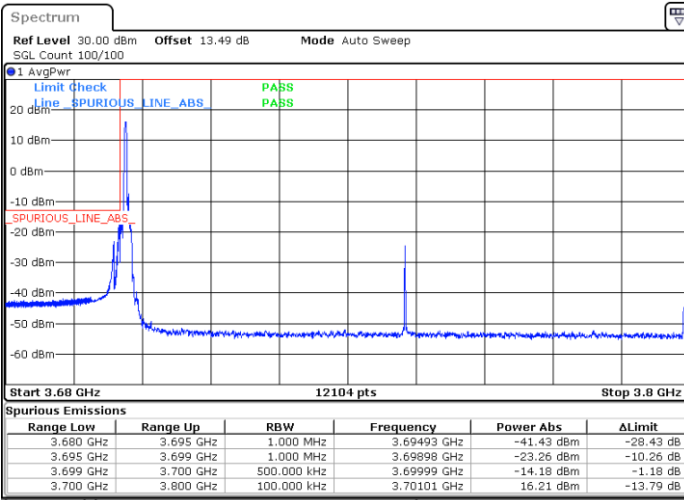
Date: 5.MAR.2022 07:27:49



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

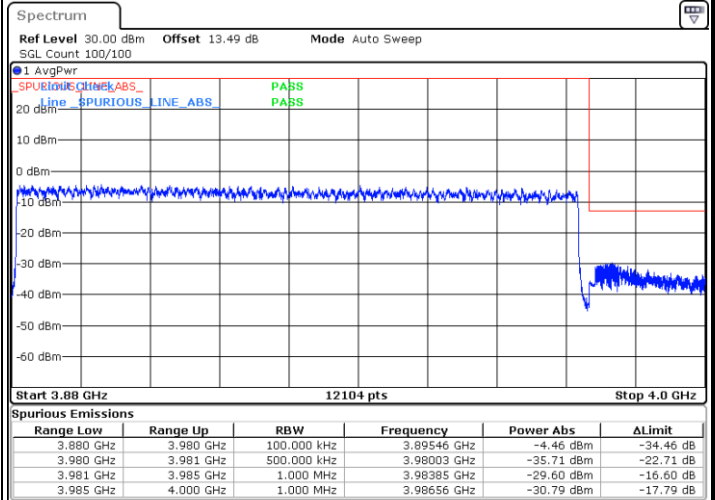
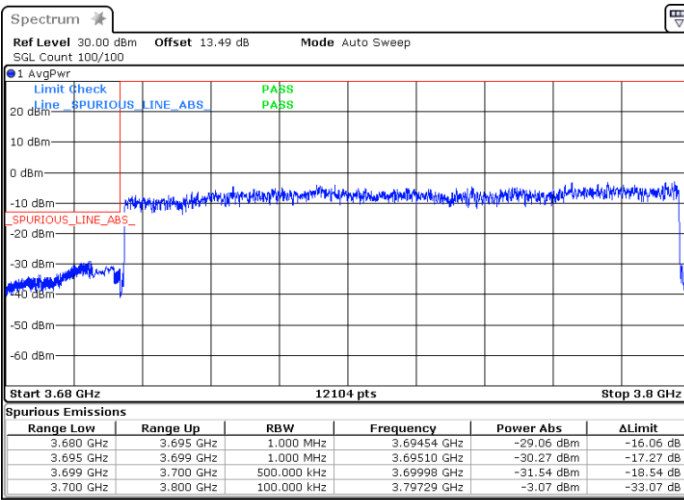


Date: 5.MAR.2022 07:43:50

Date: 5.MAR.2022 08:04:26

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.MAR.2022 07:54:31

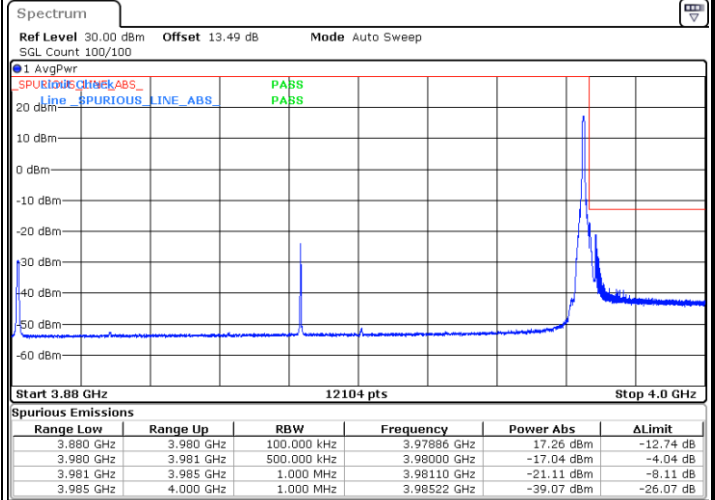
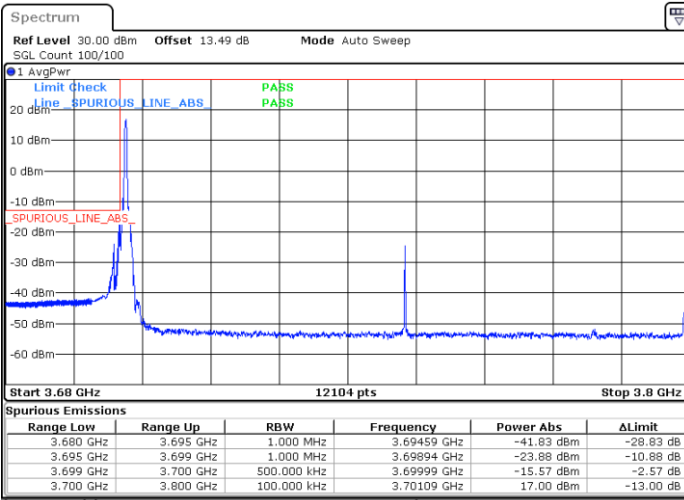
Date: 5.MAR.2022 07:55:45



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

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

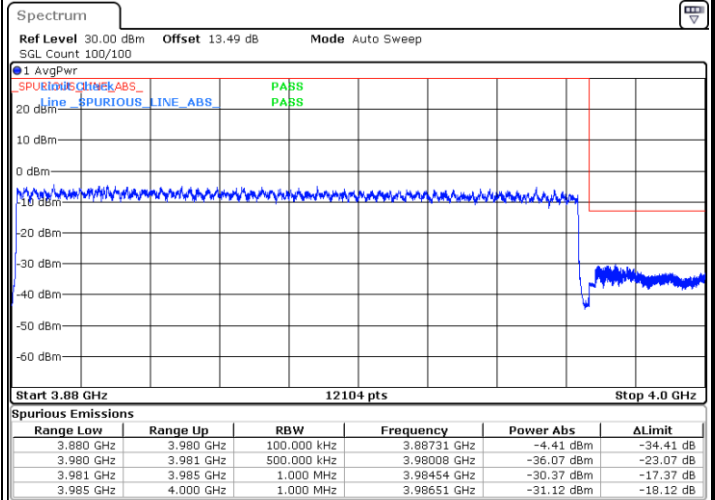
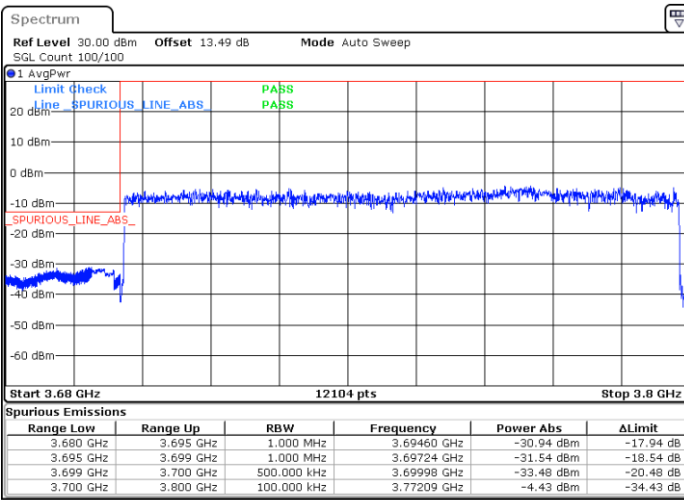


Date: 5.MAR.2022 07:44:30

Date: 5.MAR.2022 08:03:04

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.MAR.2022 07:53:13

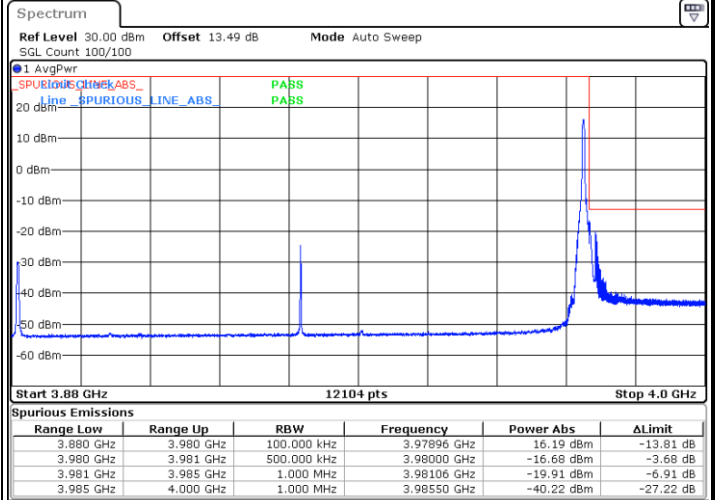
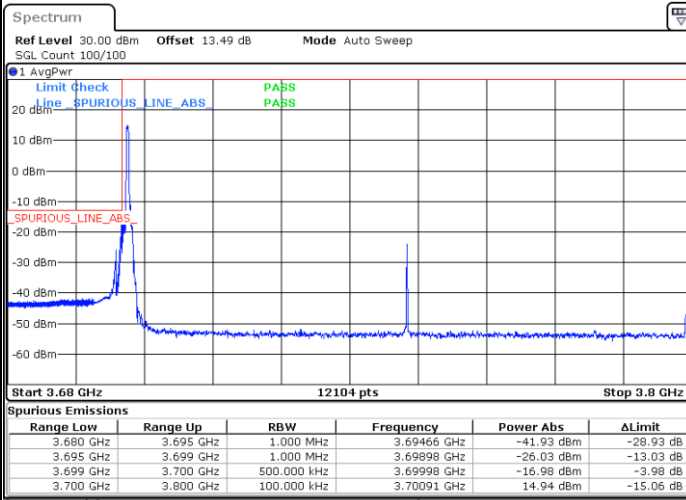
Date: 5.MAR.2022 07:56:57



FR1 n77 / 100MHz / DFT-S OFDM / 16Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

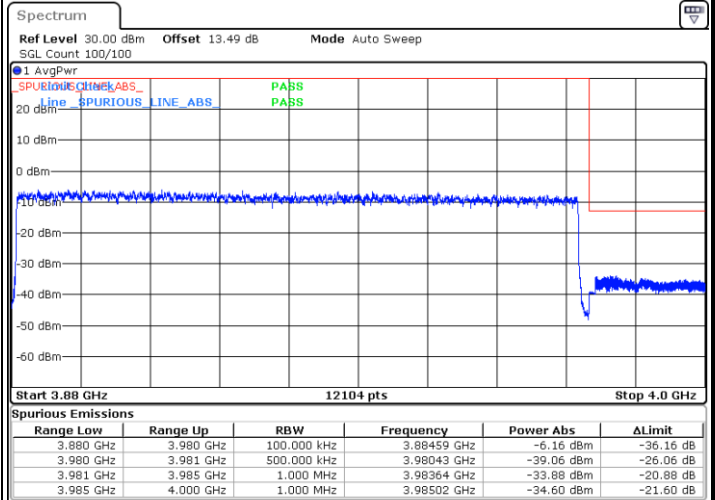
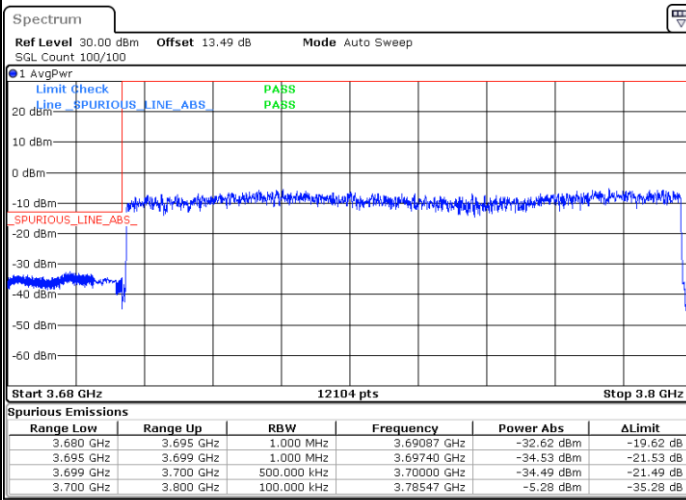


Date: 5.MAR.2022 07:45:06

Date: 5.MAR.2022 08:02:17

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.MAR.2022 07:52:30

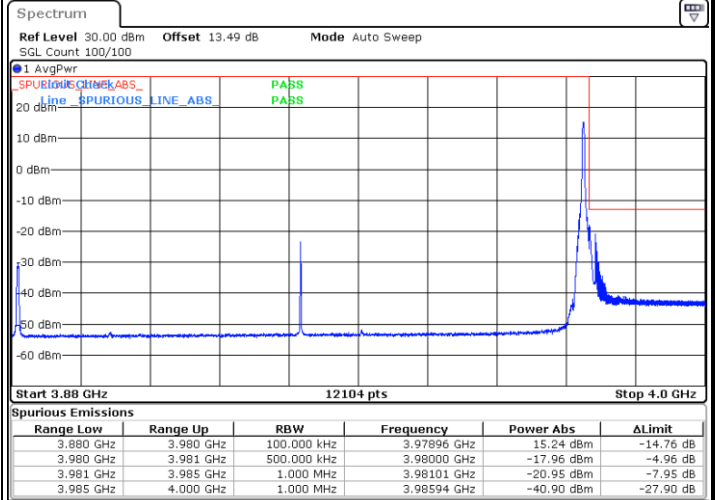
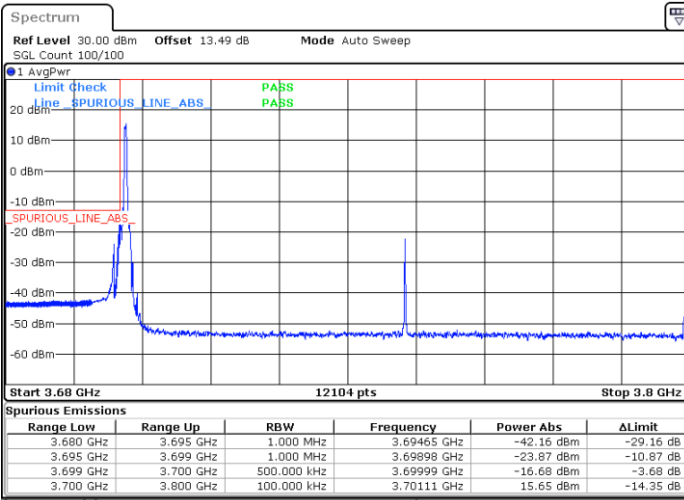
Date: 5.MAR.2022 07:57:48



FR1 n77 / 100MHz / DFT-S OFDM / 64Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

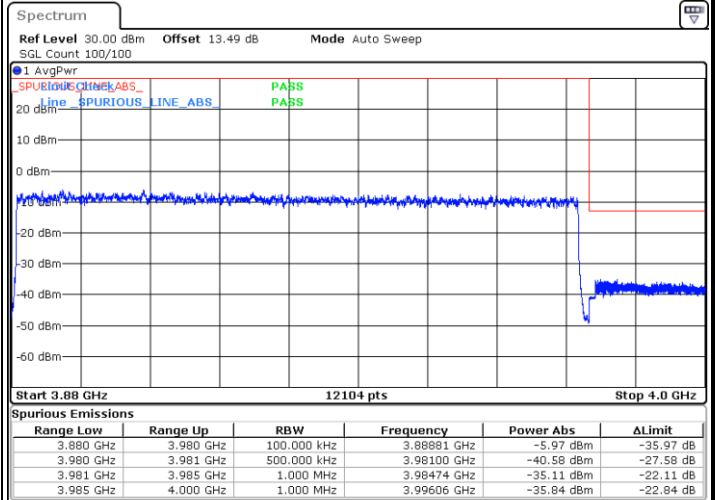
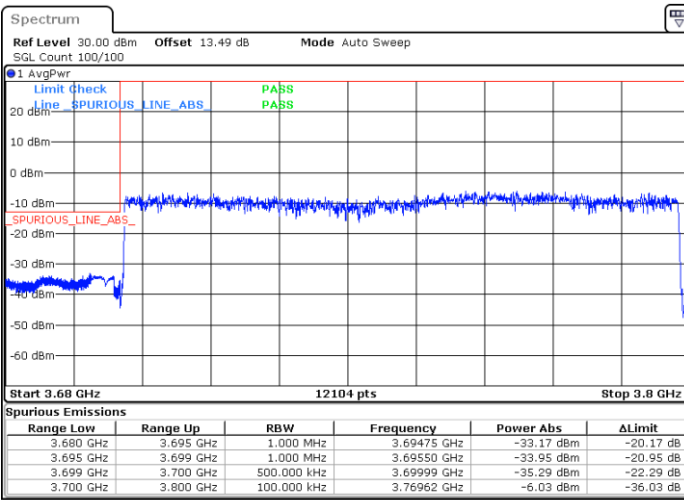


Date: 5.MAR.2022 07:45:54

Date: 5.MAR.2022 08:01:19

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.MAR.2022 07:50:58

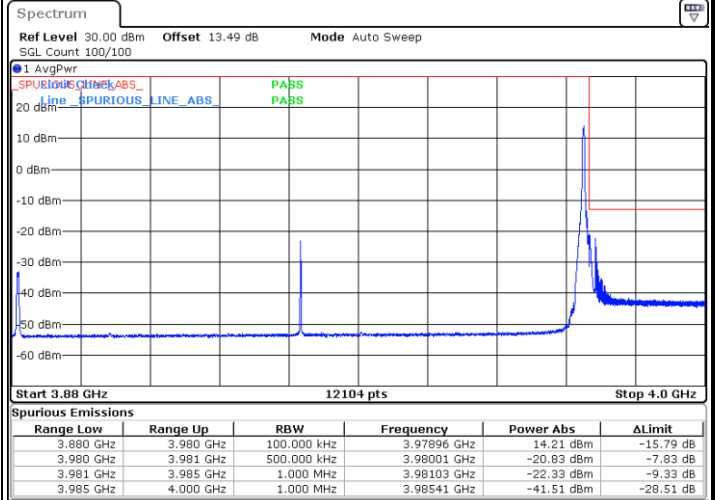
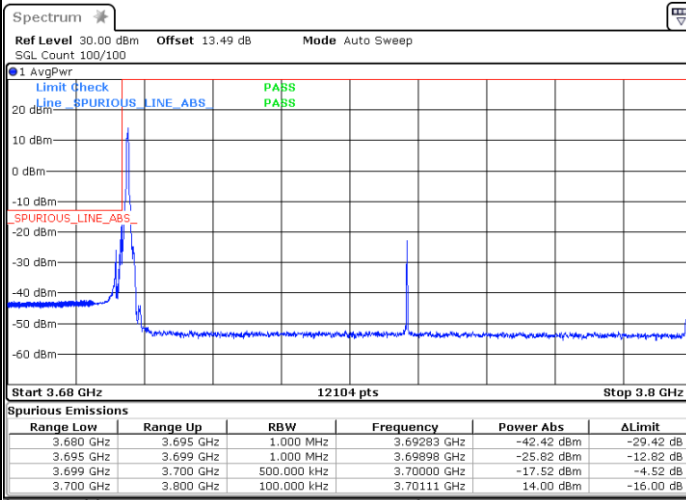
Date: 5.MAR.2022 07:58:26



FR1 n77 /100MHz / DFT-S OFDM / 256Q

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

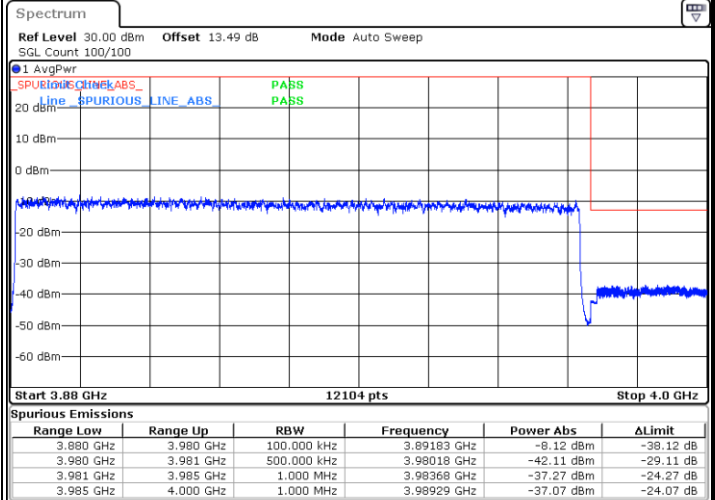
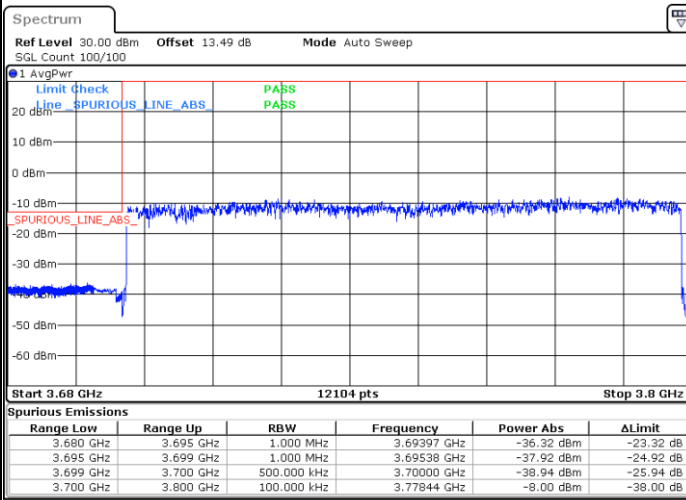


Date: 5.MAR.2022 07:47:26

Date: 5.MAR.2022 08:00:32

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 5.MAR.2022 07:50:16

Date: 5.MAR.2022 07:59:40

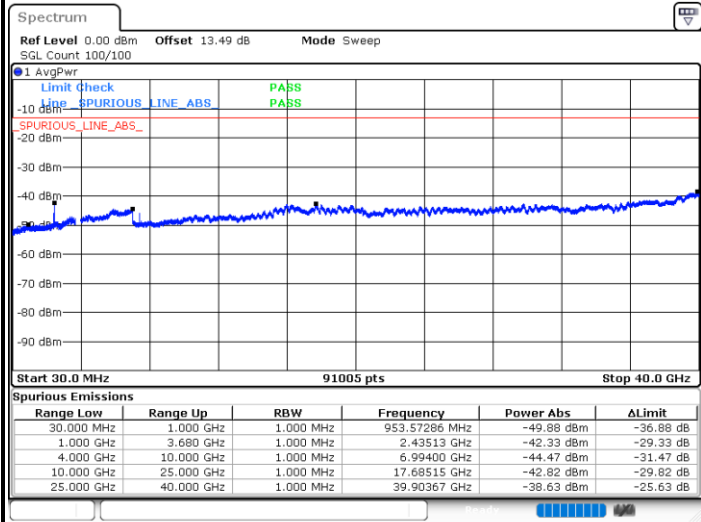


Conducted Spurious Emission

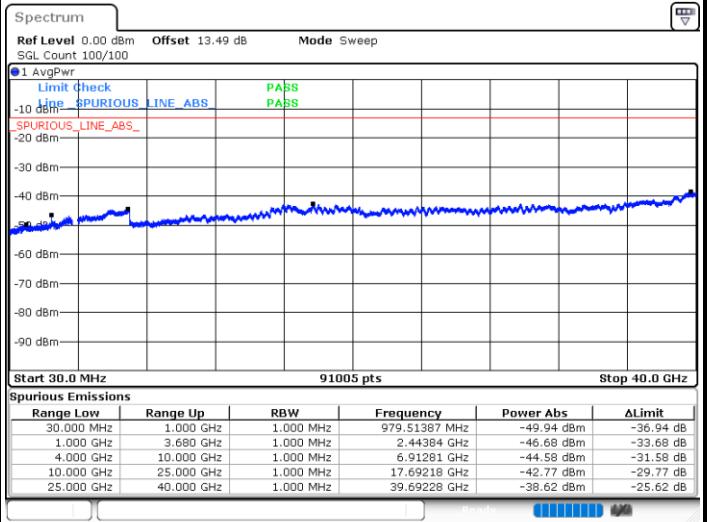
FR1 n77 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

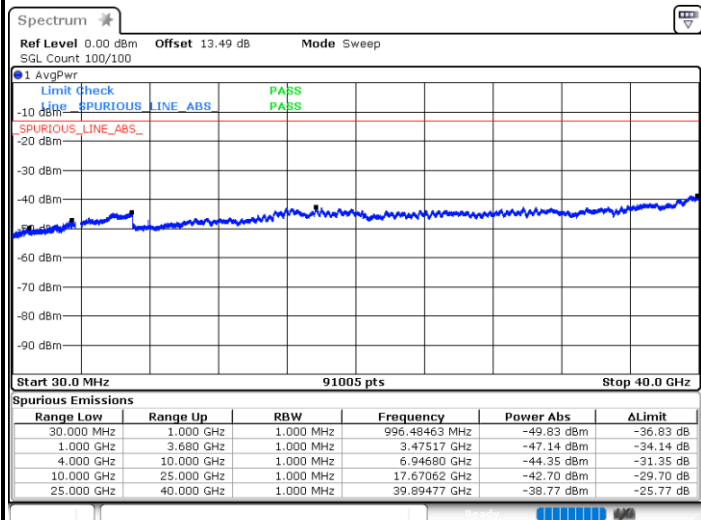


Date: 4.MAR.2022 21:43:40



Date: 4.MAR.2022 21:49:47

Highest Channel / 1RB1



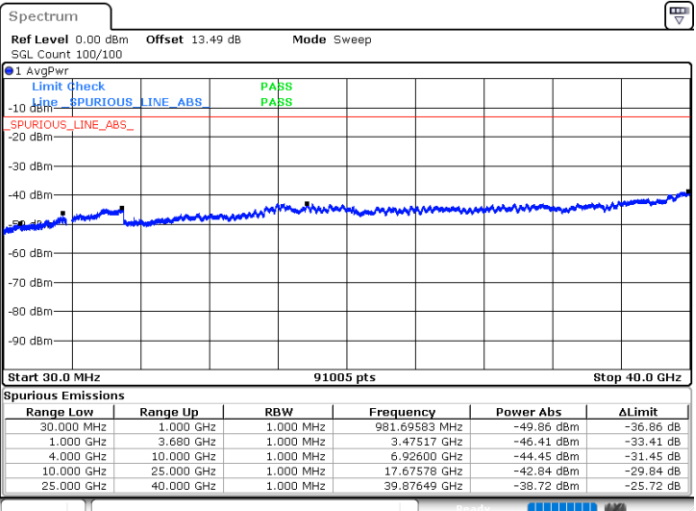
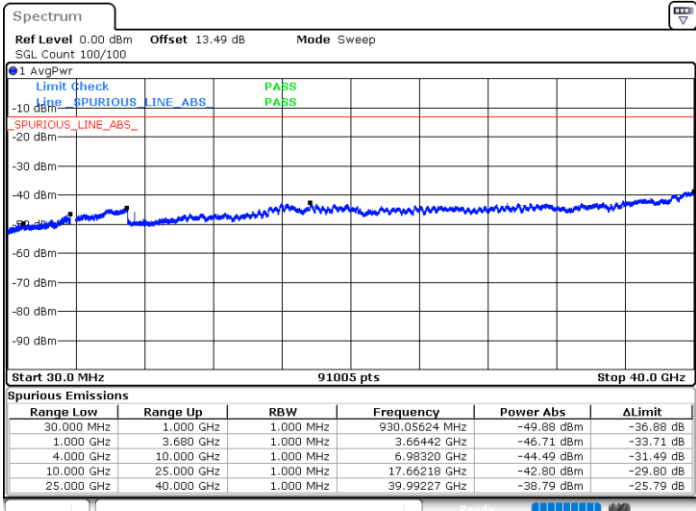
Date: 4.MAR.2022 21:51:43



FR1 n77 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

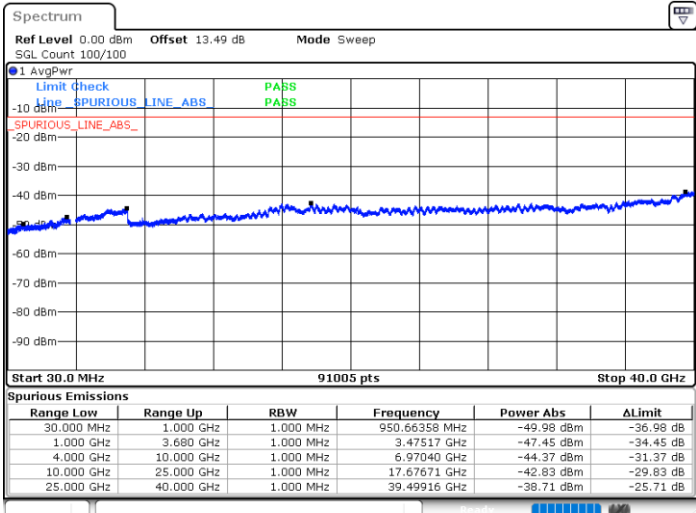
Middle Channel / 1RB1



Date: 4.MAR.2022 22:24:13

Date: 4.MAR.2022 22:25:36

Highest Channel / 1RB1



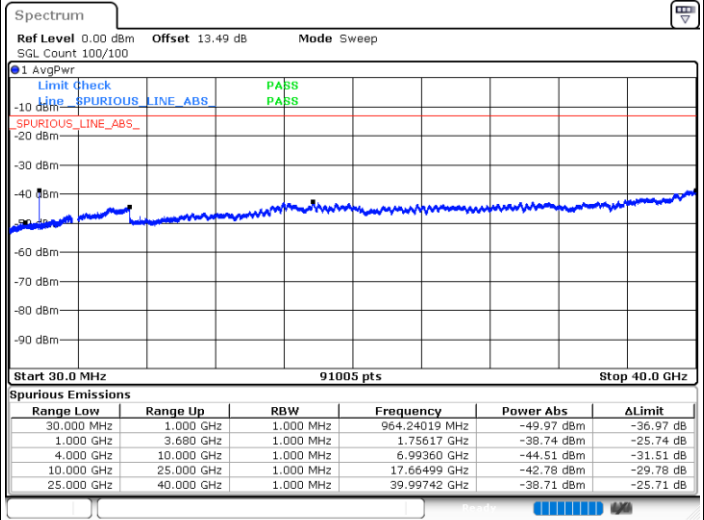
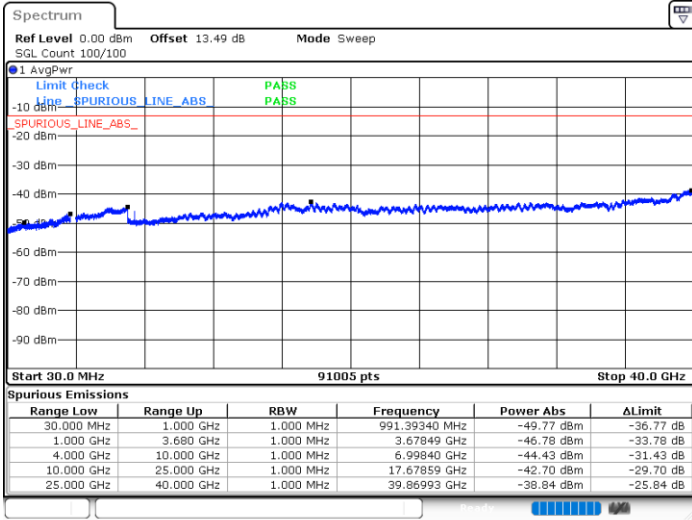
Date: 4.MAR.2022 22:27:00



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

Lowest Channel / 1RB1

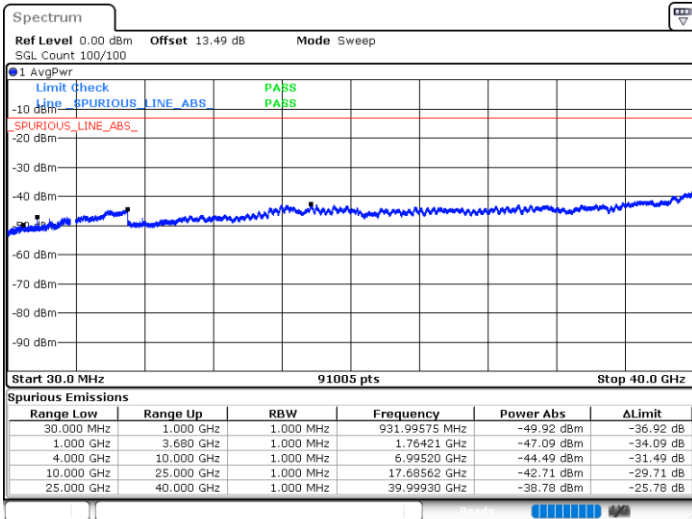
Middle Channel / 1RB1



Date: 4.MAR.2022 23:18:48

Date: 4.MAR.2022 23:20:14

Highest Channel / 1RB1



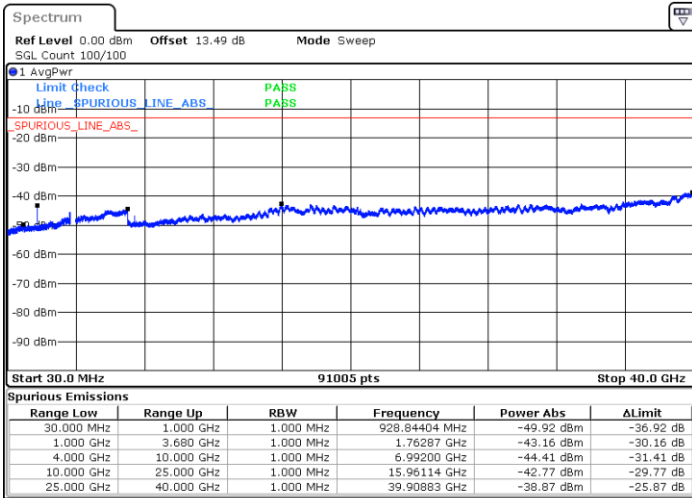
Date: 4.MAR.2022 23:21:36



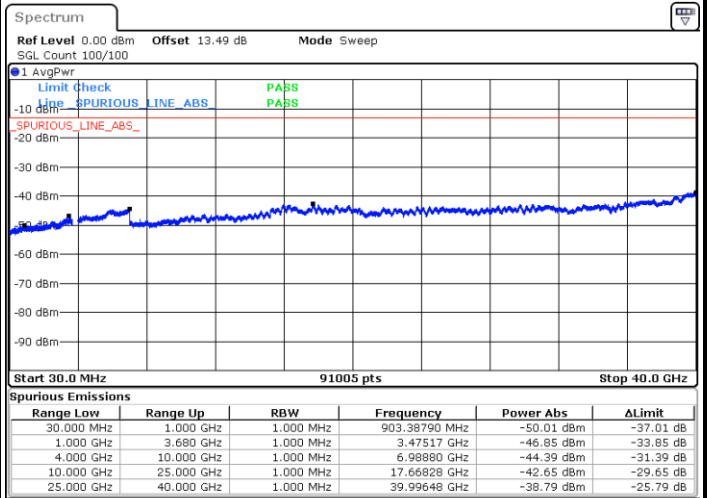
FR1 n77 / 60MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

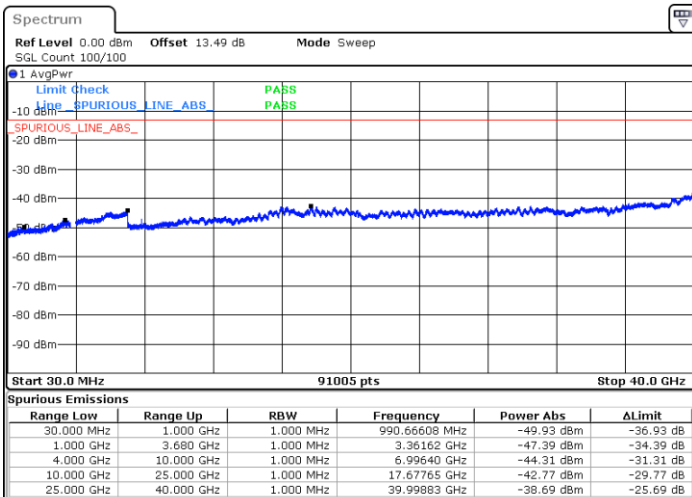


Date: 5.MAR.2022 01:59:34



Date: 5.MAR.2022 02:01:15

Highest Channel / 1RB1



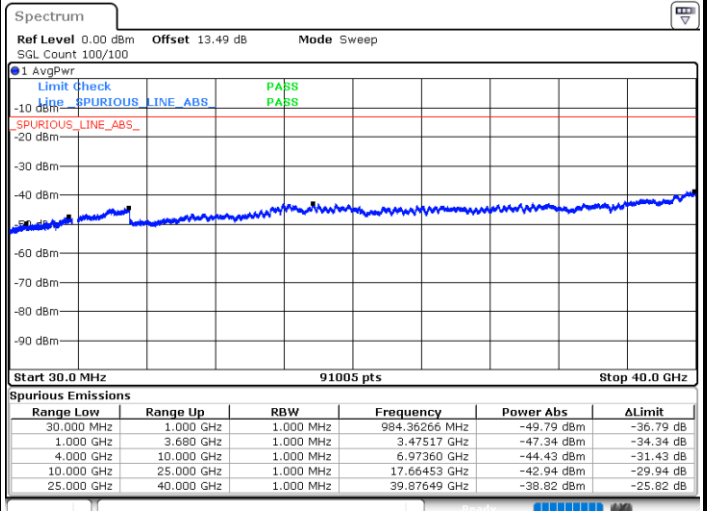
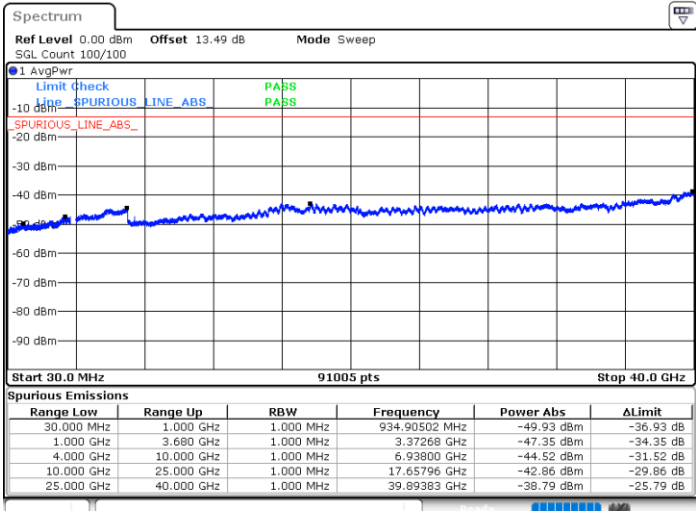
Date: 5.MAR.2022 02:02:43



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

Lowest Channel / 1RB1

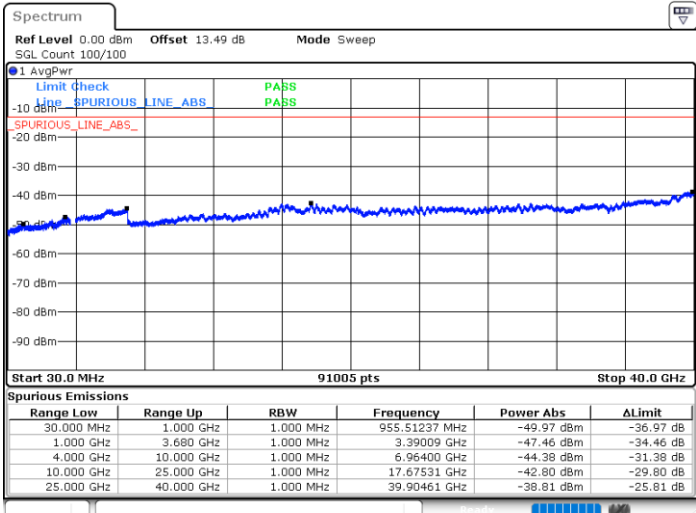
Middle Channel / 1RB1



Date: 5.MAR.2022 05:13:27

Date: 5.MAR.2022 05:33:26

Highest Channel / 1RB1



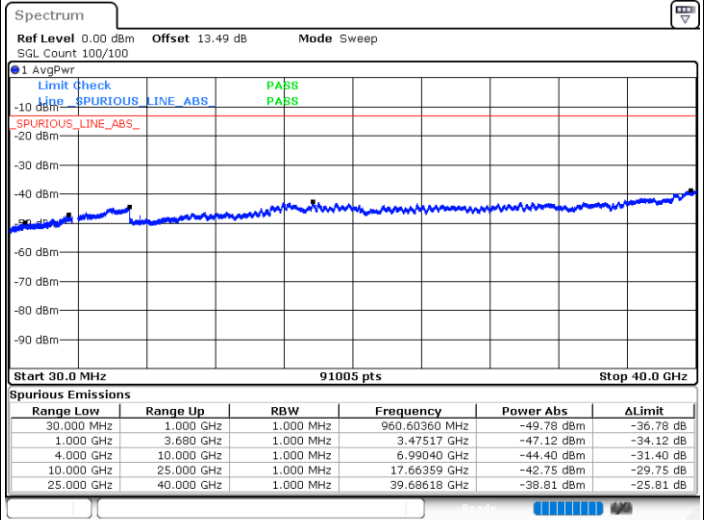
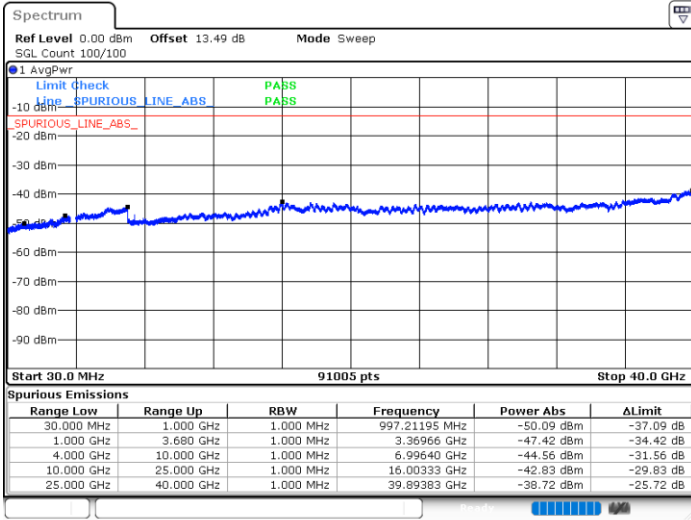
Date: 5.MAR.2022 05:17:23



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

Lowest Channel / 1RB1

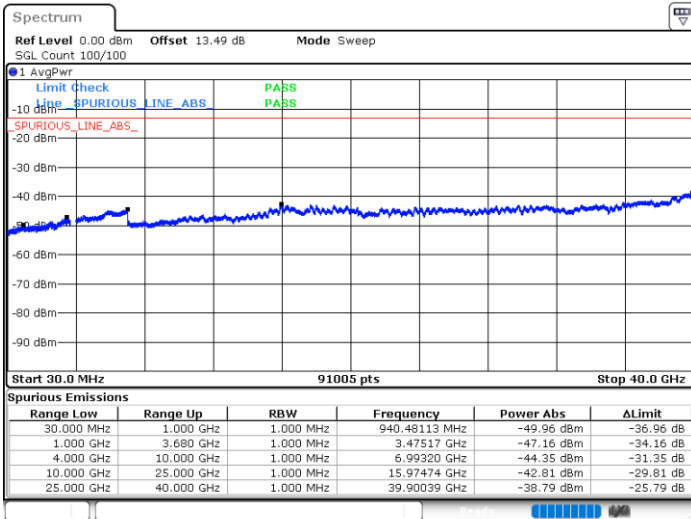
Middle Channel / 1RB1



Date: 5.MAR.2022 06:19:13

Date: 5.MAR.2022 06:16:16

Highest Channel / 1RB1



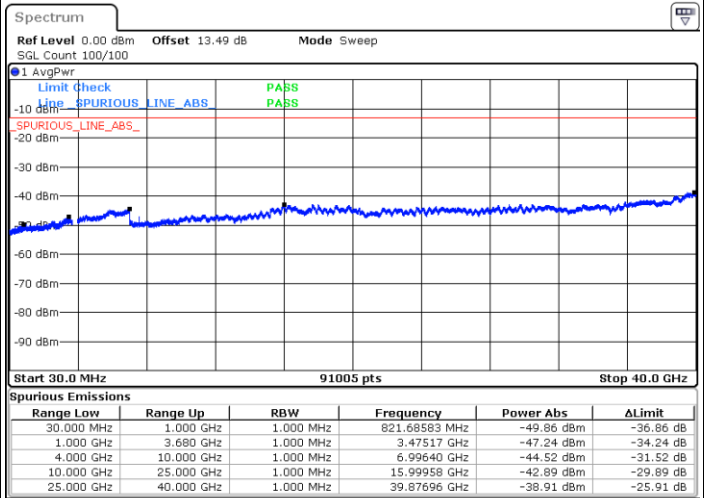
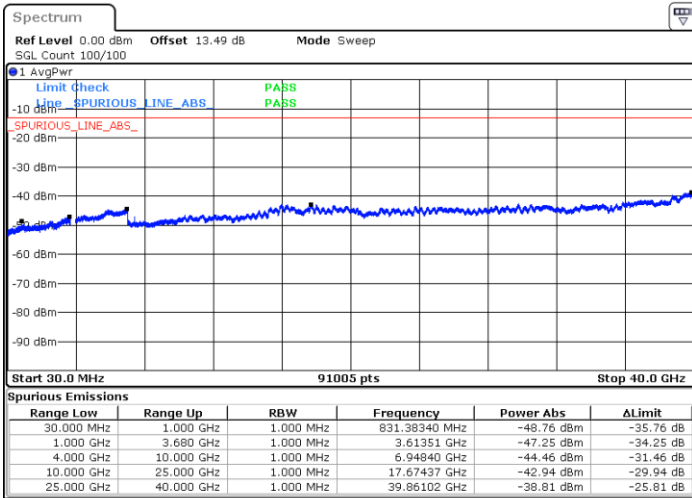
Date: 5.MAR.2022 06:27:38



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

Lowest Channel / 1RB1

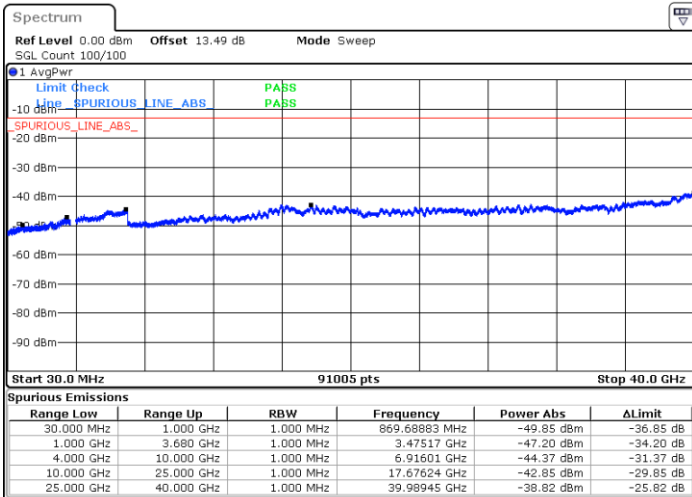
Middle Channel / 1RB1



Date: 5.MAR.2022 07:10:14

Date: 5.MAR.2022 07:08:51

Highest Channel / 1RB1



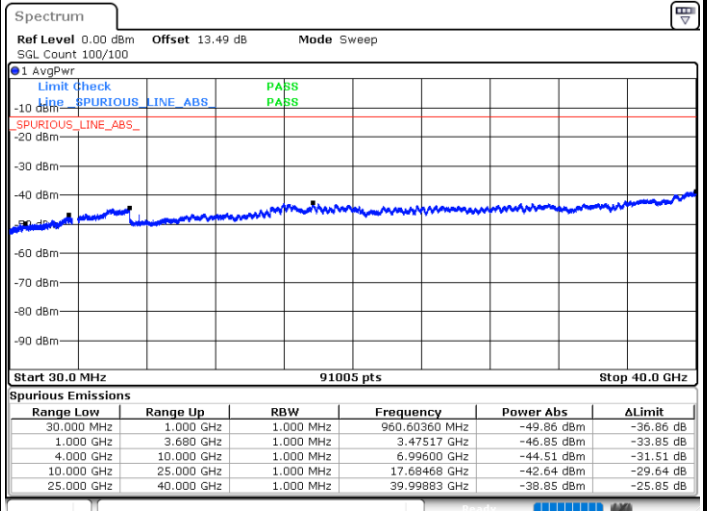
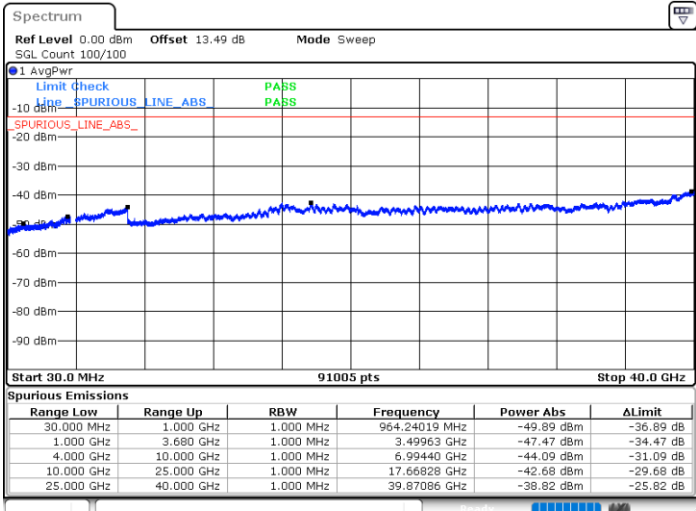
Date: 5.MAR.2022 07:11:43



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

Lowest Channel / 1RB1

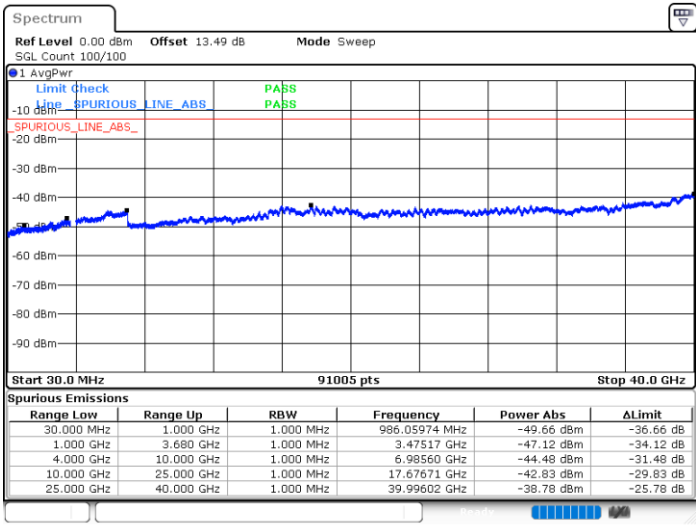
Middle Channel / 1RB1



Date: 5.MAR.2022 07:36:36

Date: 5.MAR.2022 07:35:11

Highest Channel / 1RB1



Date: 5.MAR.2022 07:38:16



Frequency Stability

Test Conditions		FR1 n77 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0024	PASS
40	Normal Voltage	0.0009	
30	Normal Voltage	0.0011	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0002	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0032	
-20	Normal Voltage	0.0015	
-30	Normal Voltage	0.0021	
20	Maximum Voltage	0.0007	
20	Normal Voltage	0.0031	
20	Battery End Point	0.0042	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.4 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



FR1 n78

Conducted Output Power(Average power) and EIRP

BW [MHz]	Modulation	RB Size	RB Offset	Power Low Ch. / Freq.	Power Middle Ch. / Freq.	Power High Ch. / Freq.	Gain	EIRP	EIRP	EIRP
Channel				650000				L	M	H
Frequency (MHz)				3750						
100	PI/2 BPSK	1	1		26.88		0.00		0.4875	
100	PI/2 BPSK	1	137		26.21		0.00		0.4178	
100	PI/2 BPSK	1	271		25.93		0.00		0.3917	
100	PI/2 BPSK	135	0		25.74		0.00		0.3750	
100	PI/2 BPSK	135	69		26.42		0.00		0.4385	
100	PI/2 BPSK	135	138		25.65		0.00		0.3673	
100	PI/2 BPSK	270	0		25.67		0.00		0.3690	
100	QPSK	1	1		26.10		0.00		0.4074	
100	QPSK	1	137		26.34		0.00		0.4305	
100	QPSK	1	271		26.08		0.00		0.4055	
100	QPSK	135	0		25.24		0.00		0.3342	
100	QPSK	135	69		26.26		0.00		0.4227	
100	QPSK	135	138		25.12		0.00		0.3251	
100	QPSK	270	0		25.04		0.00		0.3192	
100	16QAM	1	1		24.94		0.00		0.3119	
100	64QAM	1	1		23.26		0.00		0.2118	
100	256QAM	1	1		21.38		0.00		0.1374	
Channel				649668	650000	650334	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3745.02	3750	3755.01				
90	PI/2 BPSK	1	1	25.98	26.04	25.98	0.00	0.3963	0.4018	0.3963
Channel				649334	650000	650668	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3740.01	3750	3760.02				
80	PI/2 BPSK	1	1	26.10	26.05	26.14	0.00	0.4074	0.4027	0.4111
Channel				649000	650000	651000	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3735	3750	3765				
70	PI/2 BPSK	1	1	26.21	26.10	26.15	0.00	0.4178	0.4074	0.4121
Channel				648668	650000	651334	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3730.02	3750	3770.01				
60	PI/2 BPSK	1	1	26.39	26.26	26.12	0.00	0.4355	0.4227	0.4093
Channel				648334	650000	651668	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3725.01	3750	3775.02				
50	PI/2 BPSK	1	1	26.07	26.36	26.21	0.00	0.4046	0.4325	0.4178
Channel				648000	650000	652000	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3720	3750	3780				
40	PI/2 BPSK	1	1	26.57	26.86	26.79	0.00	0.4539	0.4853	0.4775
Channel				647668	650000	652334	Gain	EIRP	EIRP	EIRP



Frequency (MHz)				3715.02	3750	3785.01				
30	PI/2 BPSK	1	1	26.64	26.82	26.66	0.00	0.4613	0.4808	0.4634
Channel				647334	650000	652668	Gain	EIRP	EIRP	EIRP
Frequency (MHz)				3710.01	3750	3790.02				
20	PI/2 BPSK	1	1	26.69	26.83	26.81	0.00	0.4667	0.4819	0.4797



Peak-to-Average Ratio

Mode	FR1 n78 / 100MHz / DFT-S OFDM				
Mod.	100M				Limit: 13dB
RB Size	BPSK	QPSK	16QAM	64QAM	Result
Middle CH	5.39	5.56	5.33	5.44	PASS
RB Size	256QAM				
Middle CH	5.37				