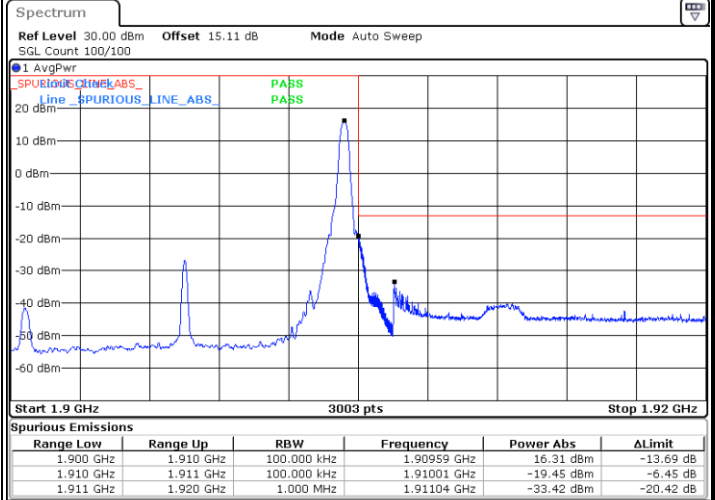
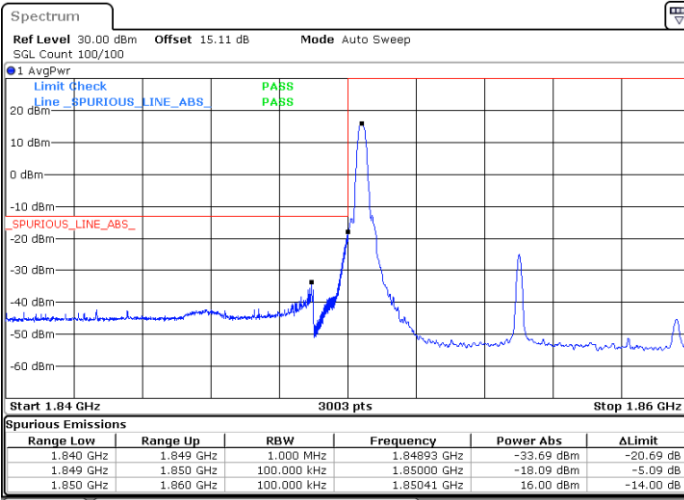




FR1 n2 / 10MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

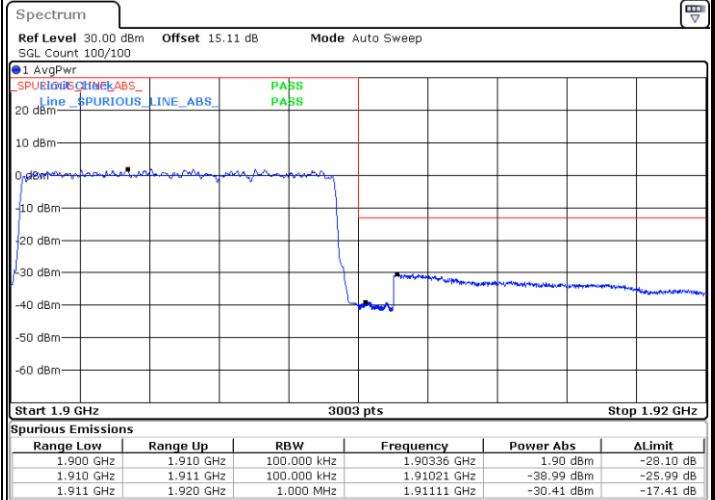
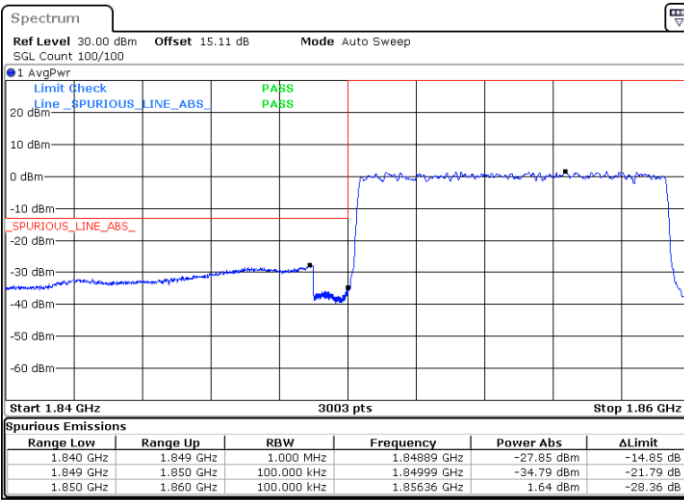


Date: 29.MAR.2021 12:25:02

Date: 29.MAR.2021 12:35:30

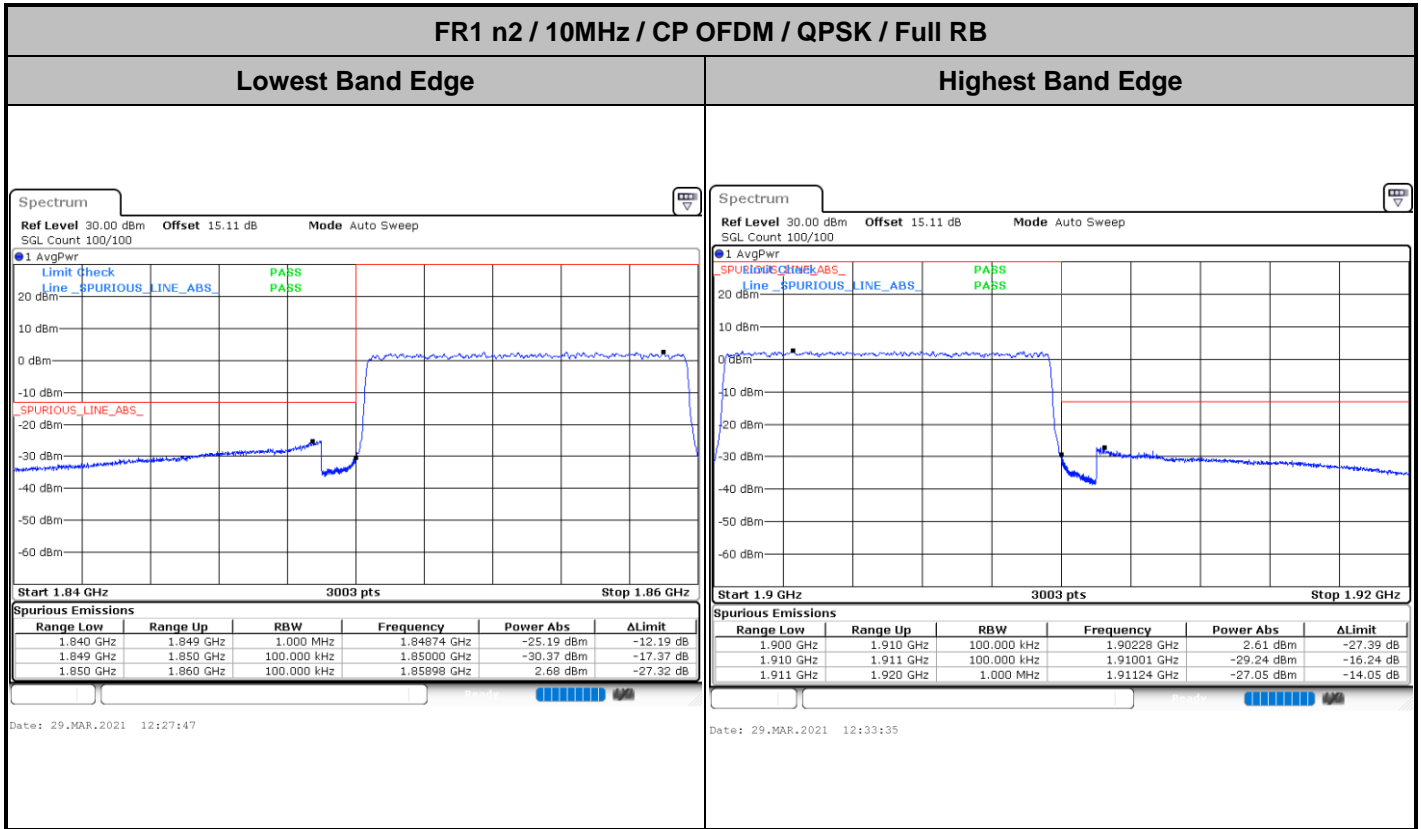
Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.MAR.2021 12:25:26

Date: 29.MAR.2021 12:32:59

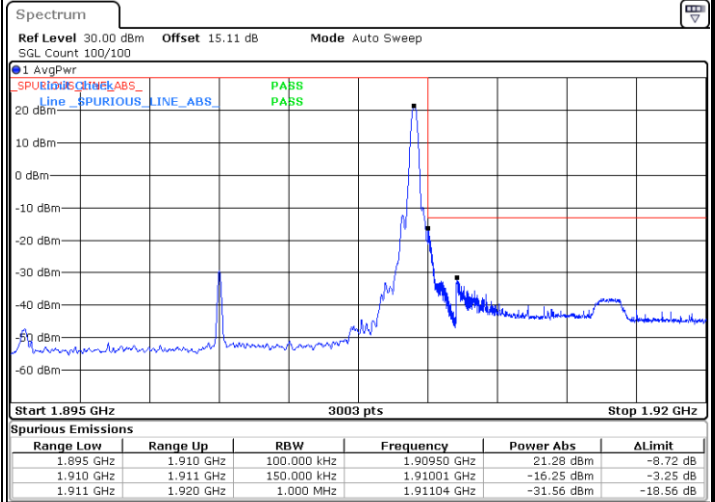
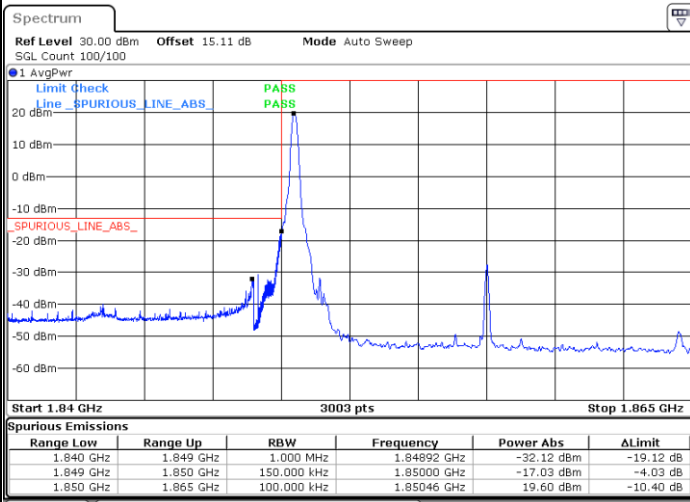




FR1 n2 / 15MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

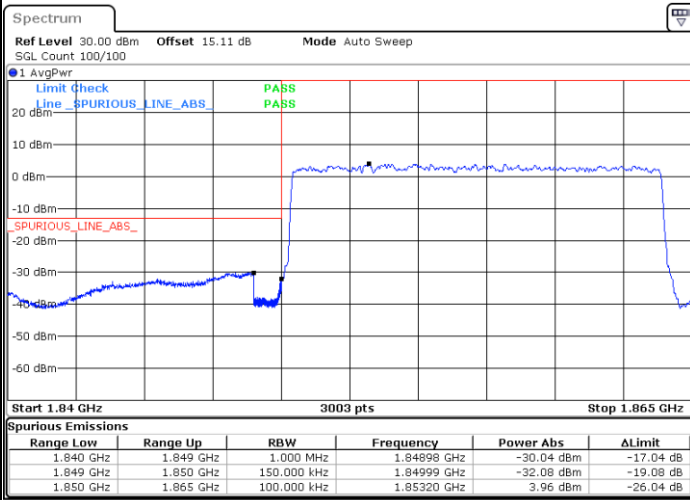


Date: 30.MAR.2021 11:15:10

Date: 29.MAR.2021 12:51:39

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.MAR.2021 12:43:28

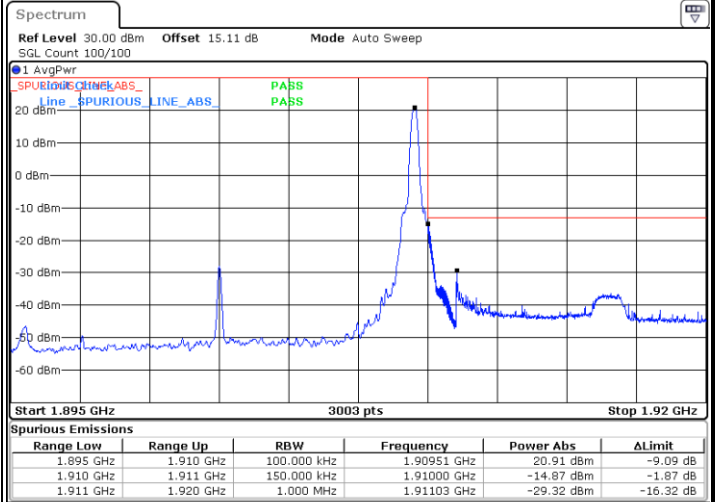
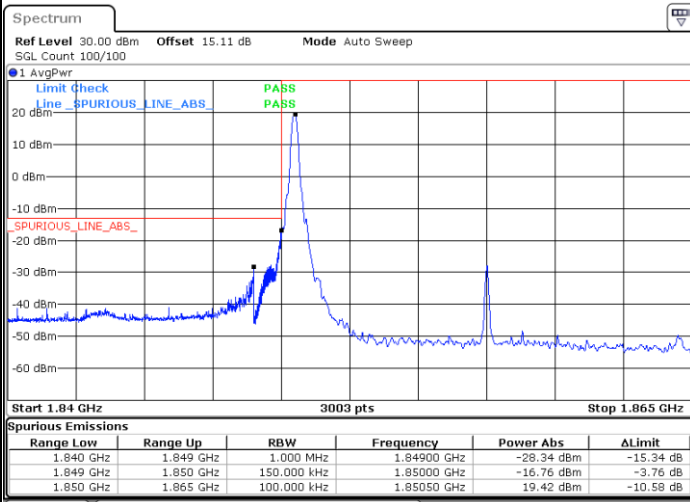
Date: 29.MAR.2021 12:46:50



FR1 n2 / 15MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

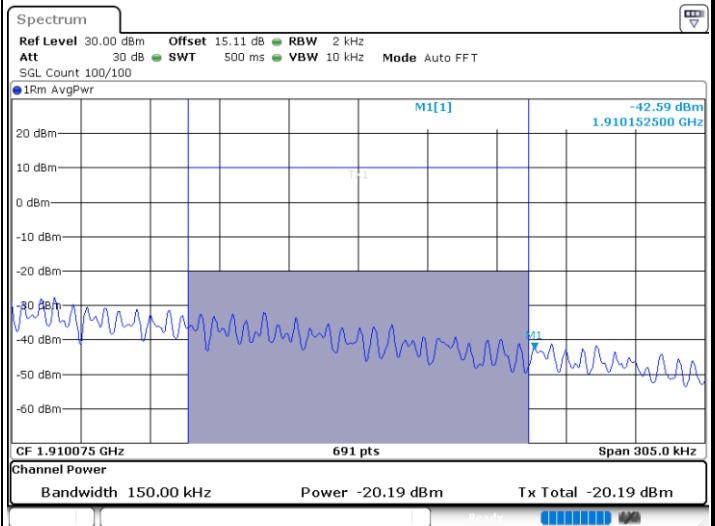
Highest Band Edge / 1RBmax



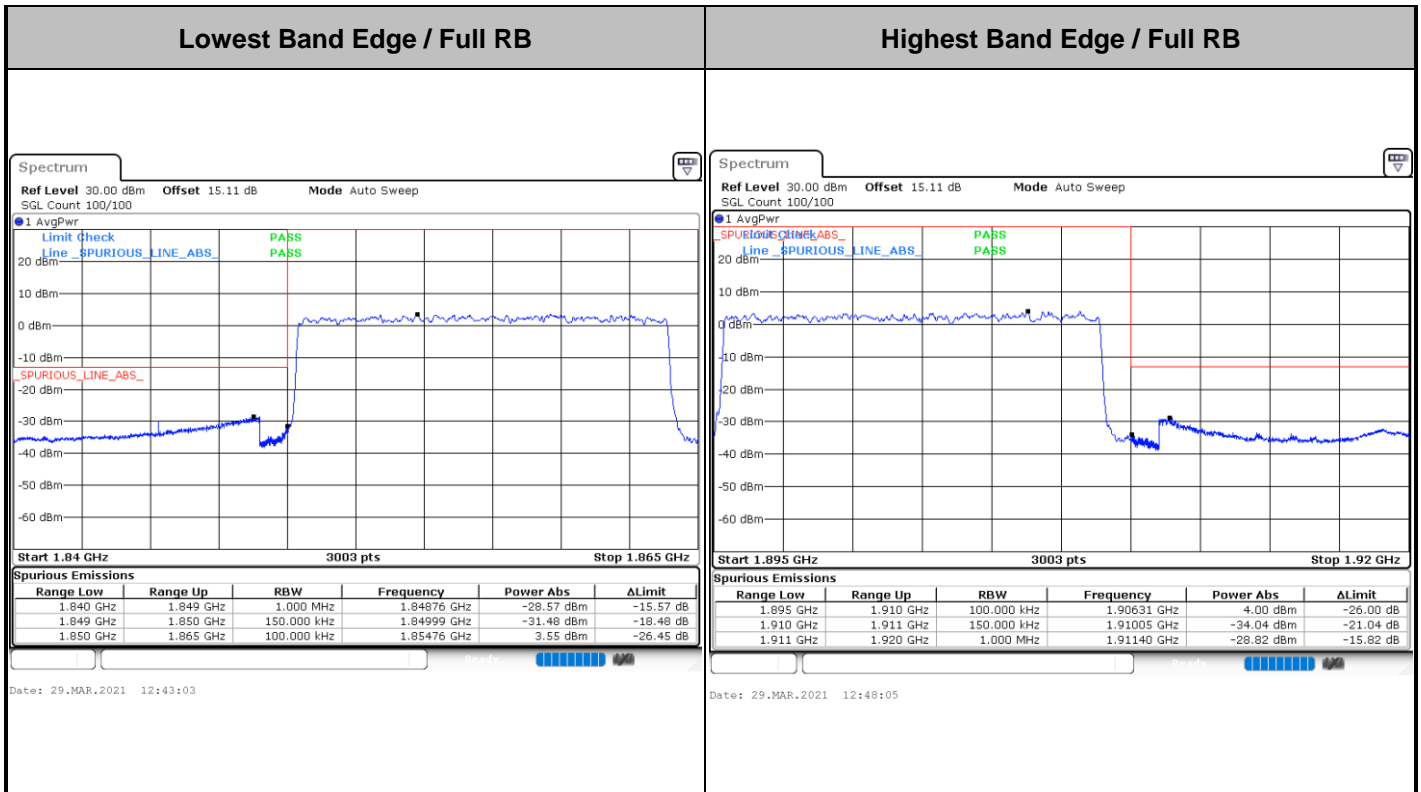
Date: 30.MAR.2021 11:15:44

Date: 30.MAR.2021 11:17:29

Channel Power -20.19dBm < -13dBm (Pass)



Date: 30.MAR.2021 11:21:36

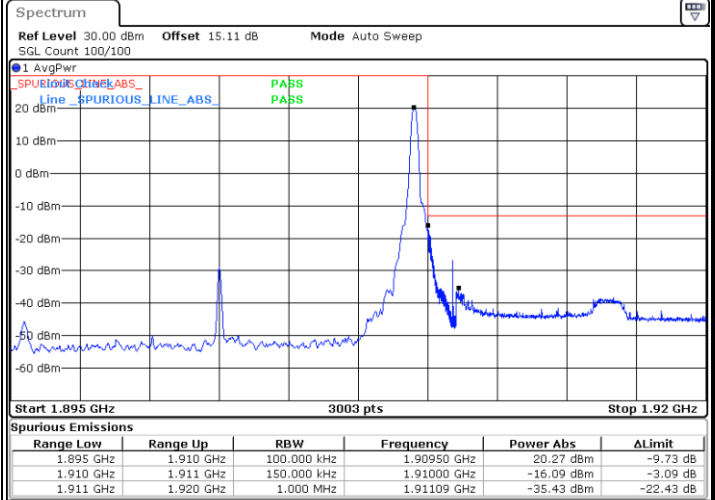
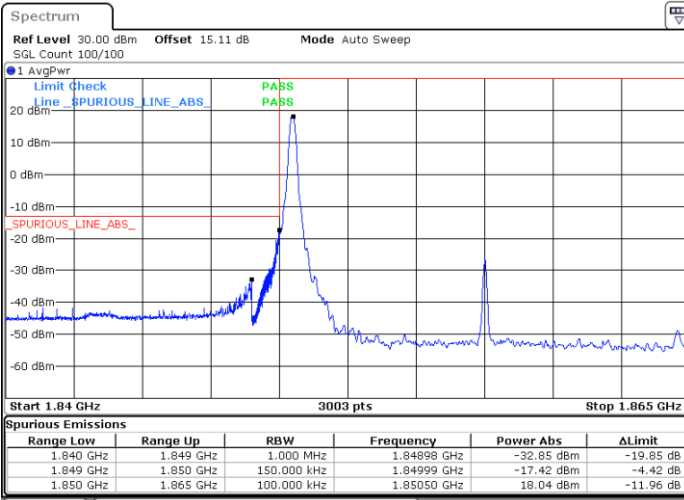




FR1 n2 / 15MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

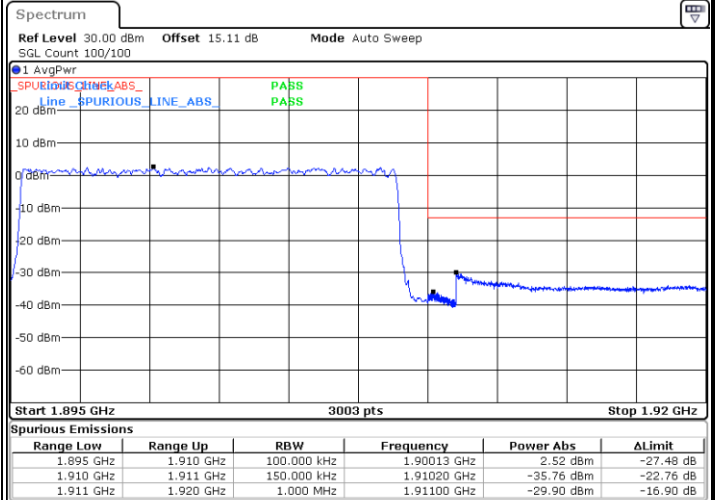
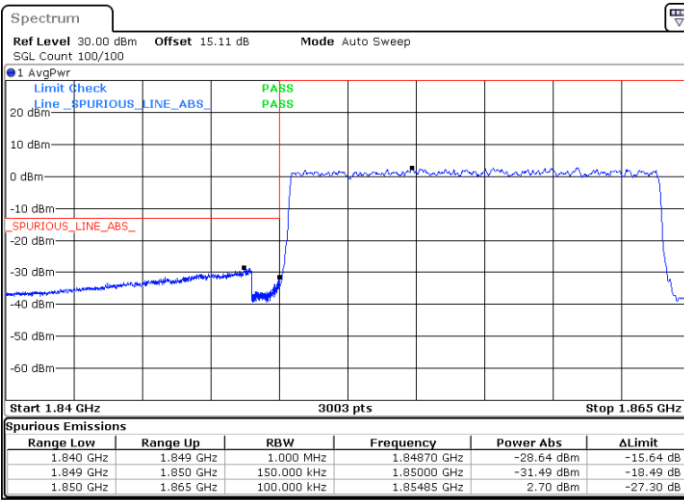


Date: 30.MAR.2021 11:16:06

Date: 29.MAR.2021 12:50:48

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.MAR.2021 12:42:44

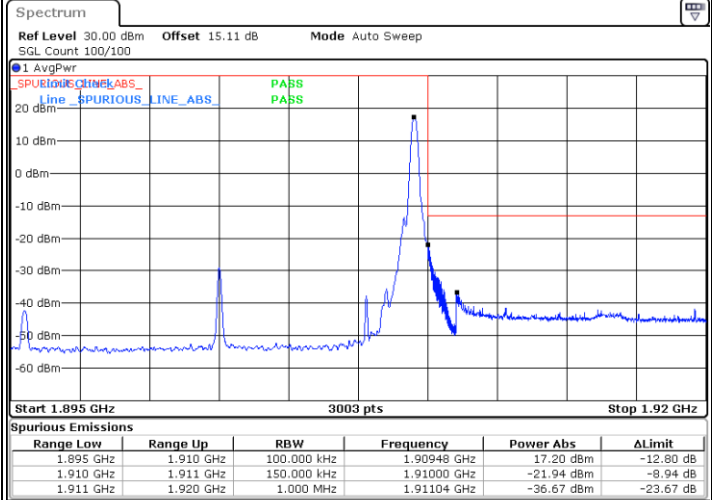
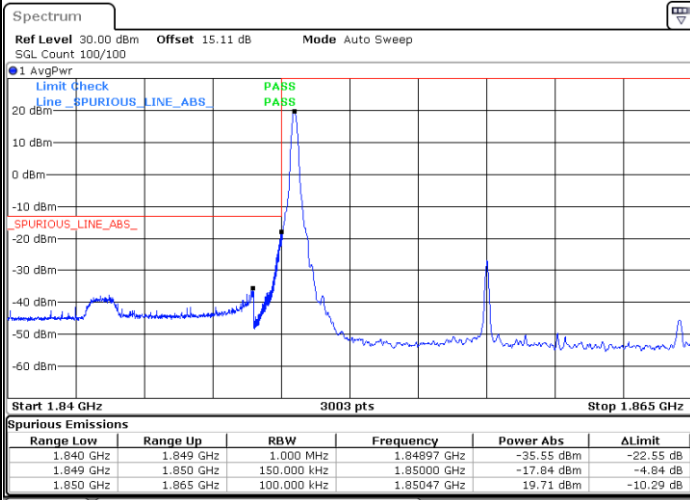
Date: 29.MAR.2021 12:48:40



FR1 n2 / 15MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

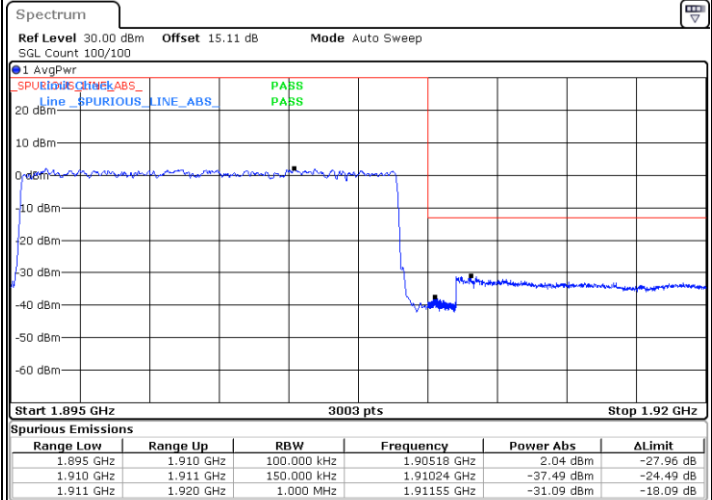
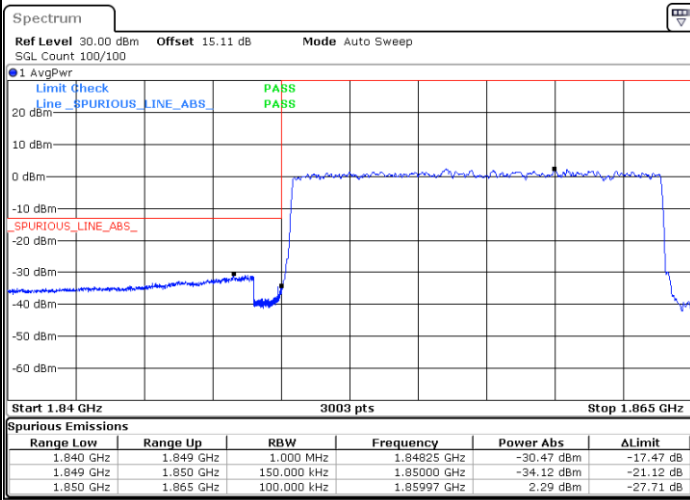


Date: 29.MAR.2021 12:41:04

Date: 29.MAR.2021 12:50:23

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.MAR.2021 12:42:19

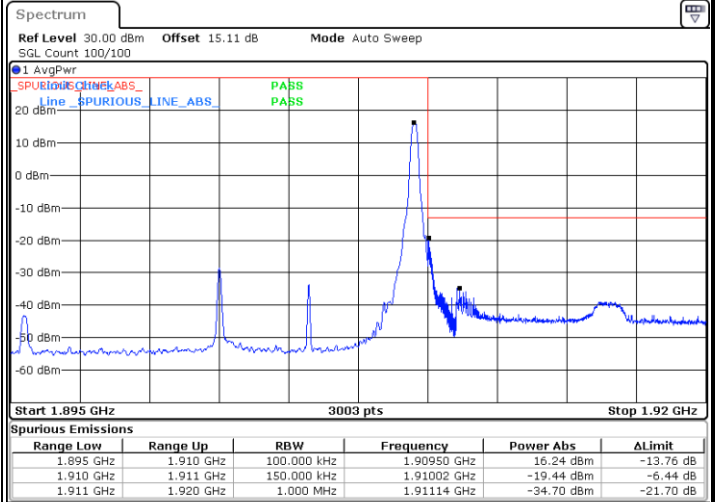
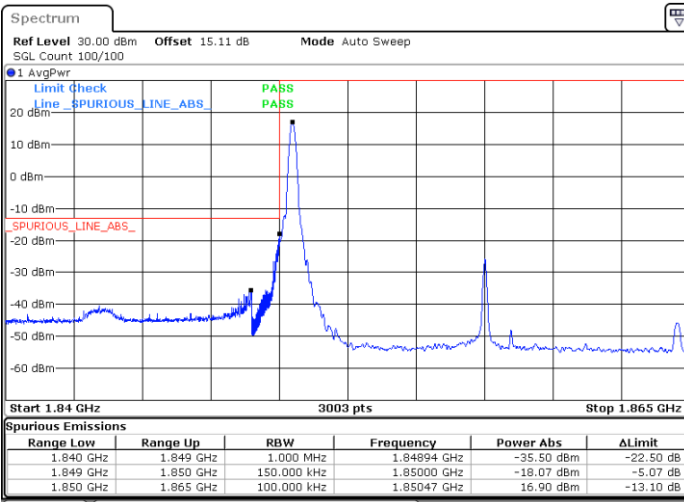
Date: 29.MAR.2021 12:49:00



FR1 n2 / 15MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

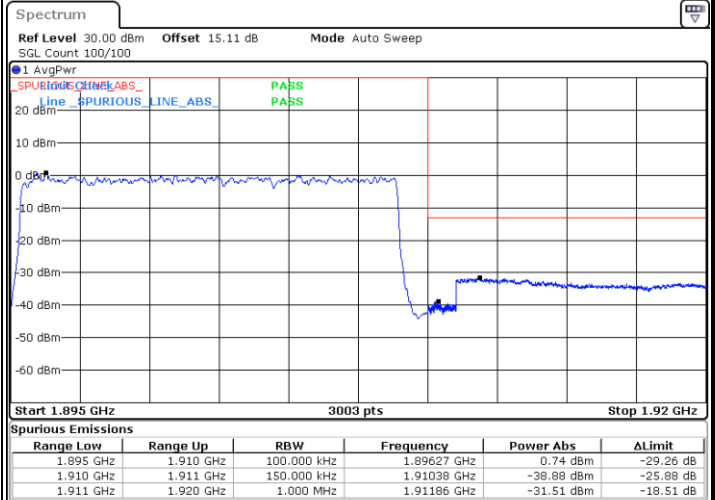
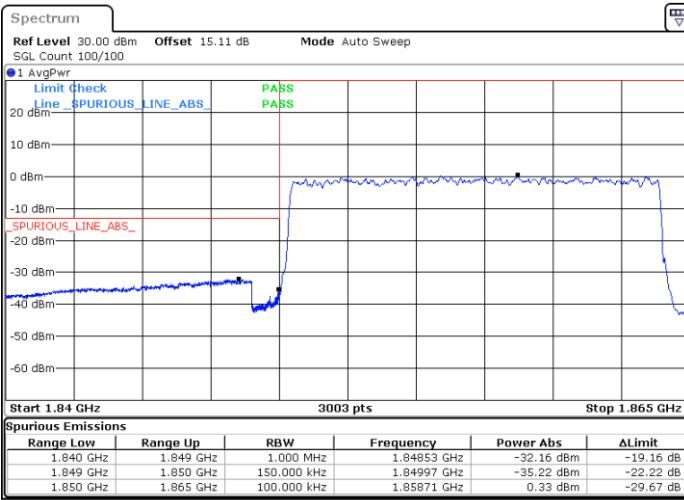


Date: 29.MAR.2021 12:41:28

Date: 29.MAR.2021 12:49:48

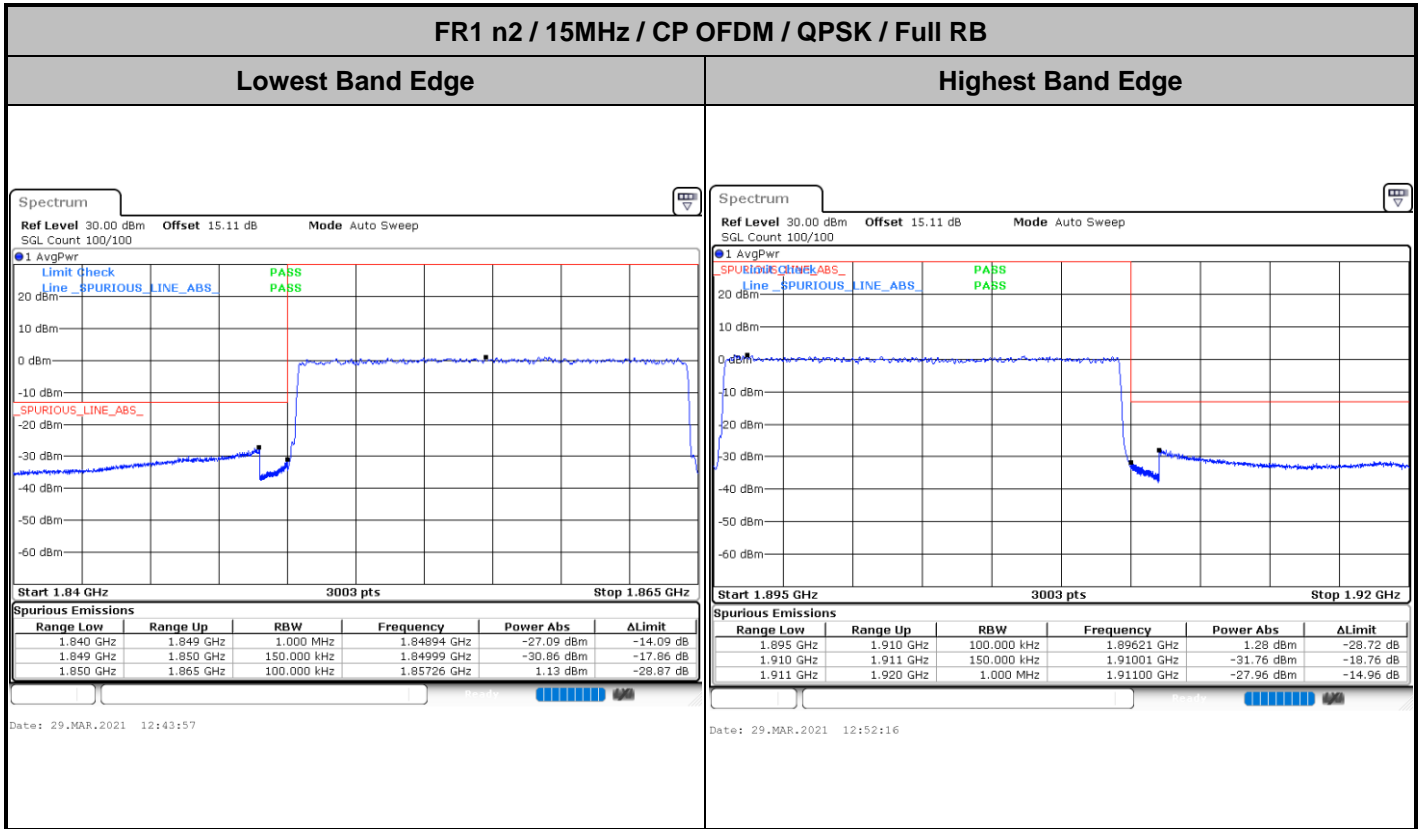
Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.MAR.2021 12:41:53

Date: 29.MAR.2021 12:49:25

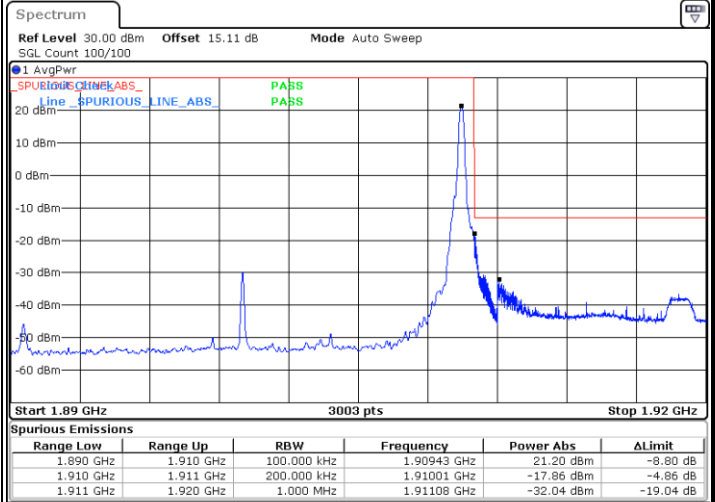
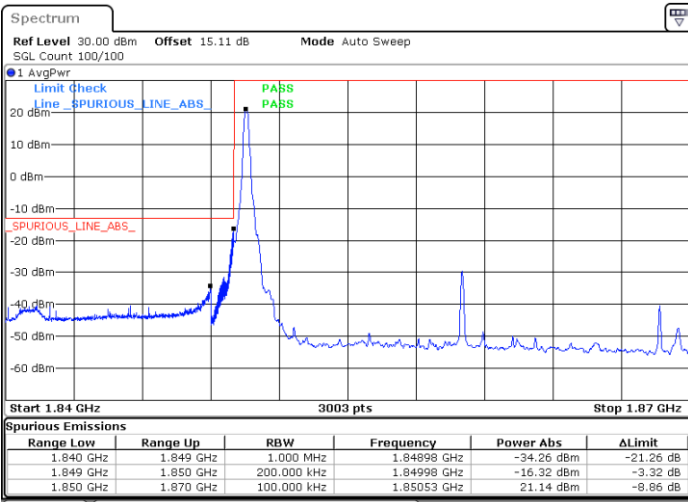




FR1 n2 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

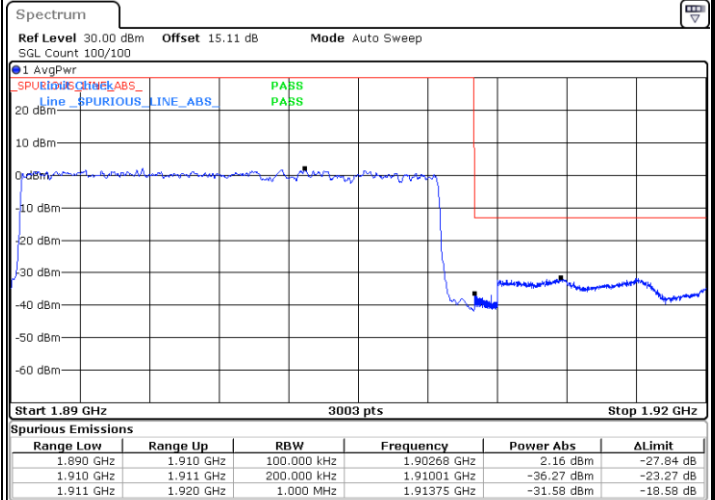
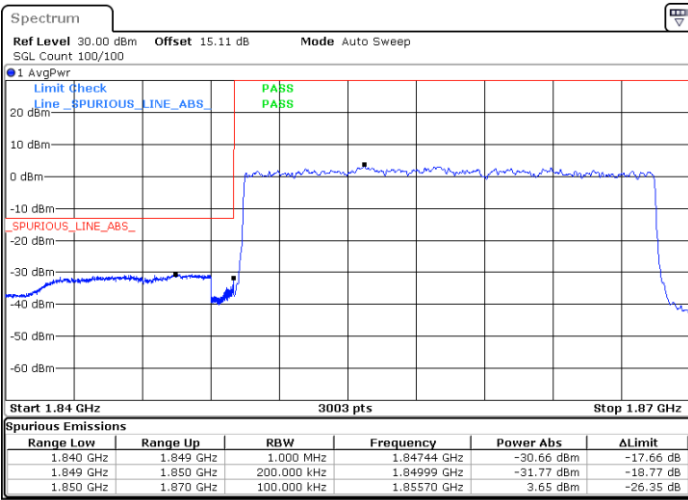


Date: 29.MAR.2021 12:55:51

Date: 29.MAR.2021 14:40:21

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.MAR.2021 12:55:19

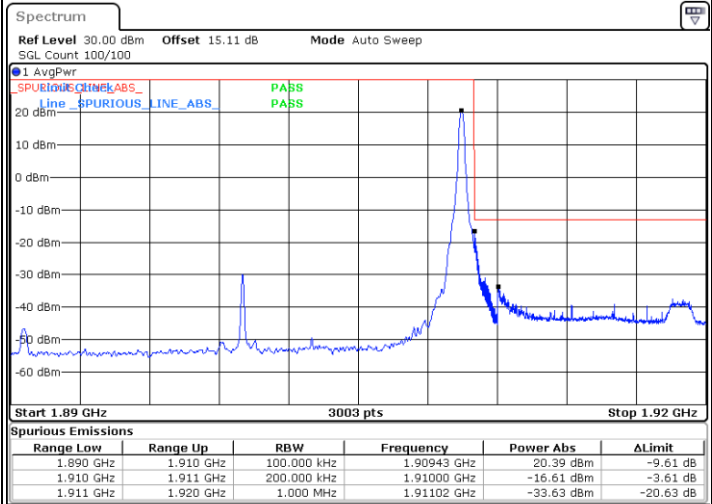
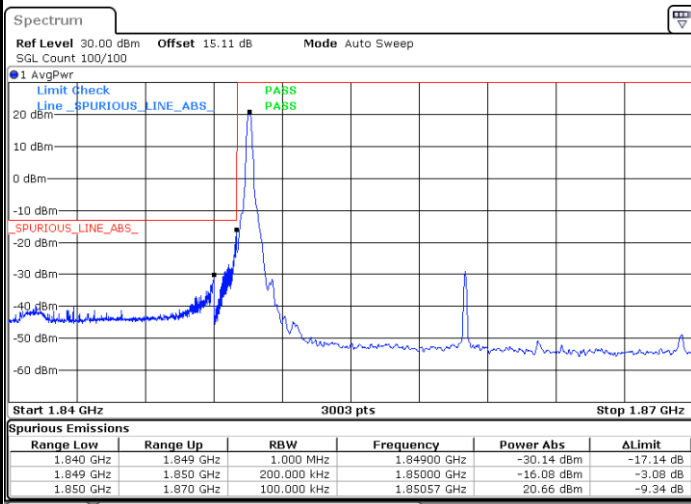
Date: 29.MAR.2021 14:39:47



FR1 n2 / 20MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

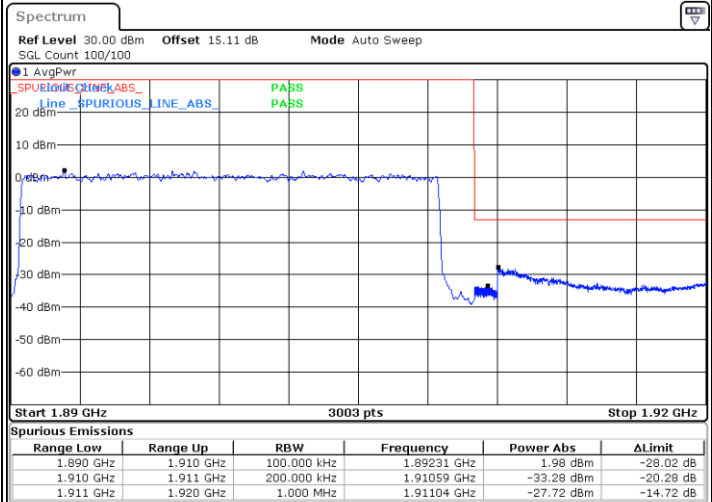
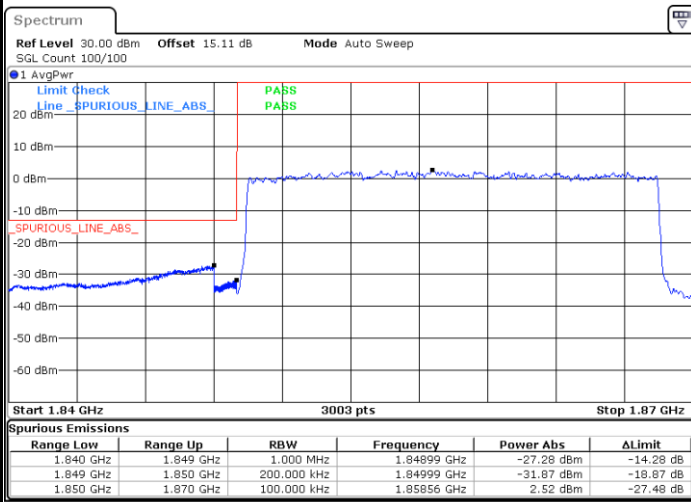


Date: 29.MAR.2021 12:56:12

Date: 29.MAR.2021 14:40:47

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.MAR.2021 12:53:34

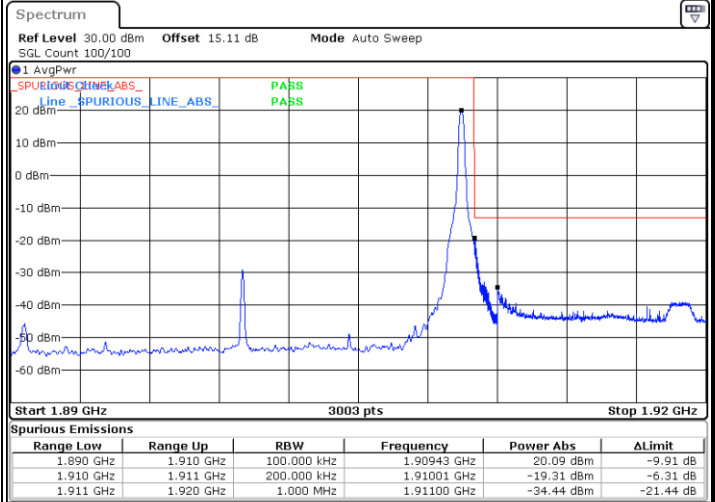
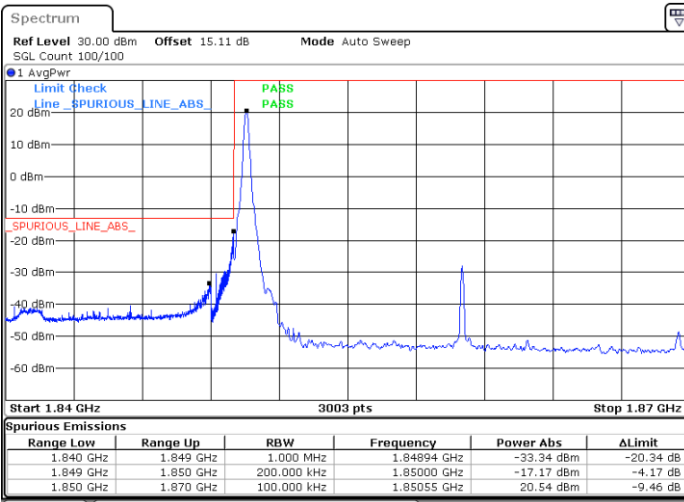
Date: 29.MAR.2021 14:37:32



FR1 n2 / 20MHz / DFT-s-OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

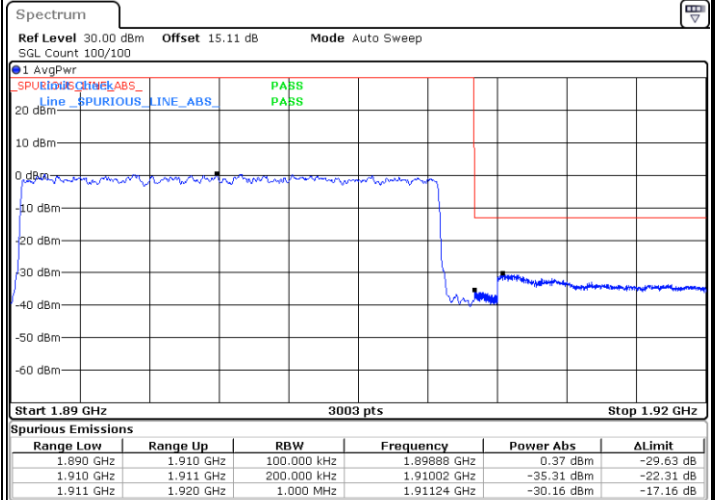
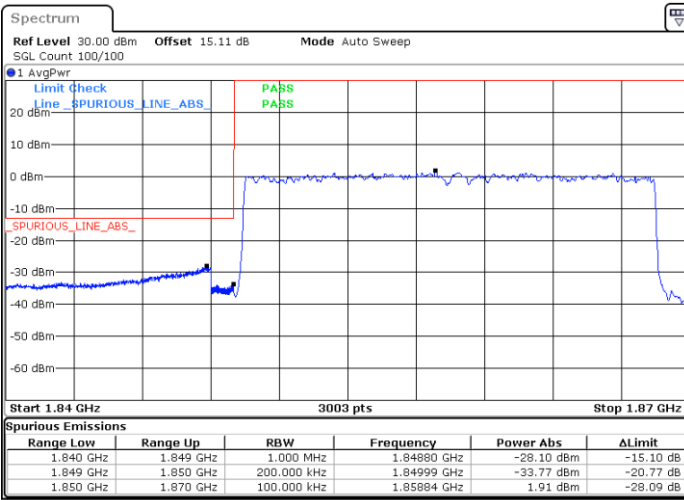


Date: 29.MAR.2021 12:56:35

Date: 29.MAR.2021 14:41:09

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.MAR.2021 12:54:00

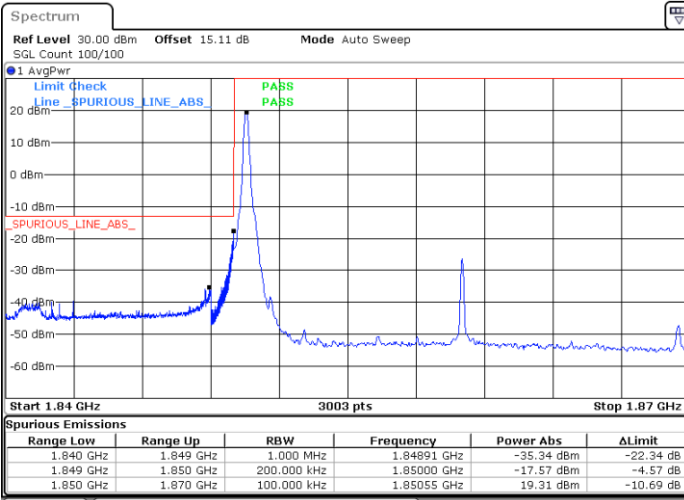
Date: 29.MAR.2021 14:38:12



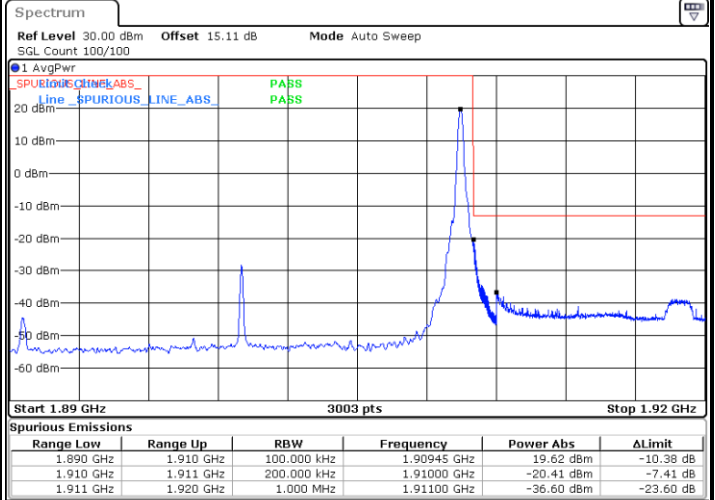
FR1 n2 / 20MHz / DFT-s-OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



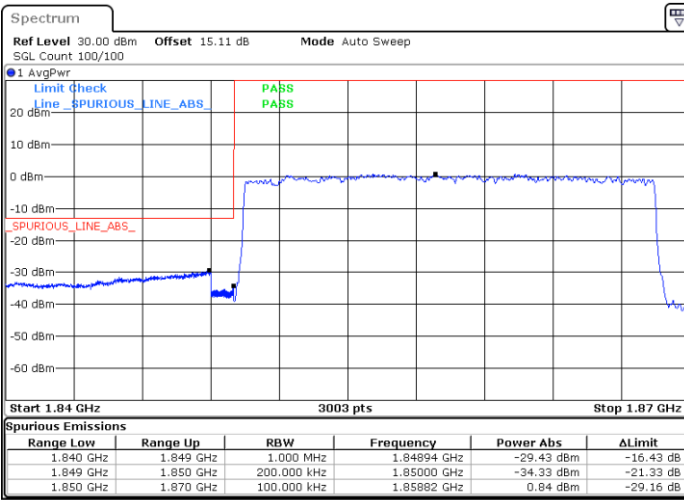
Date: 29.MAR.2021 12:56:57



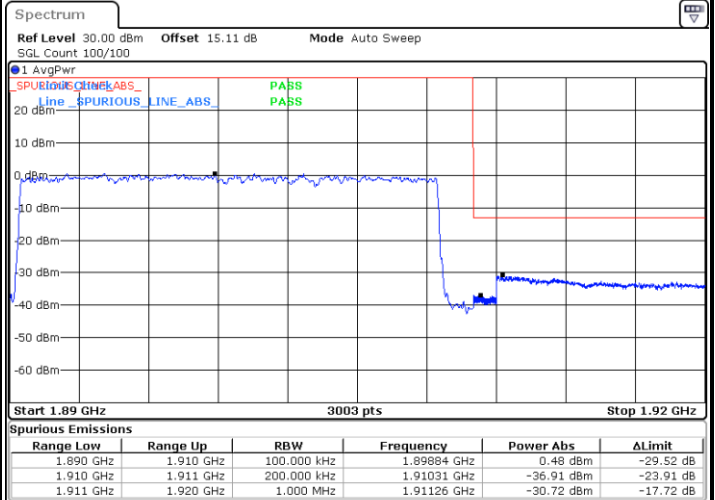
Date: 29.MAR.2021 14:41:36

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.MAR.2021 12:54:24



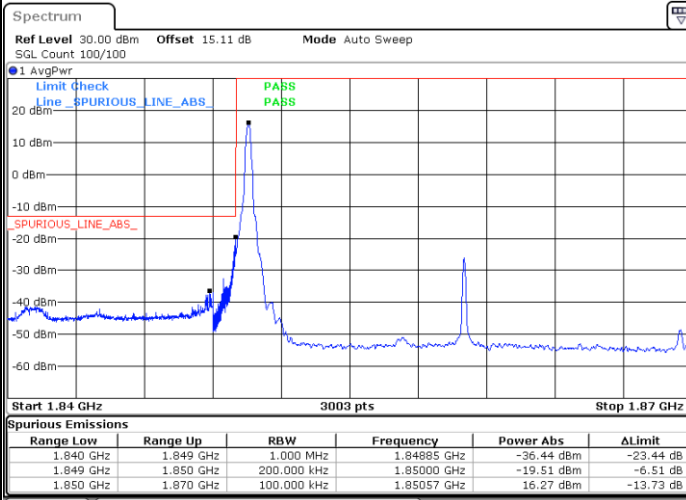
Date: 29.MAR.2021 14:38:55



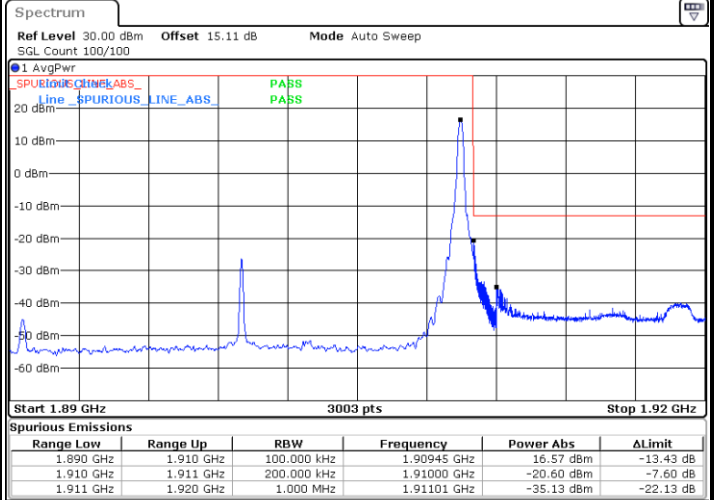
FR1 n2 / 20MHz / DFT-s-OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



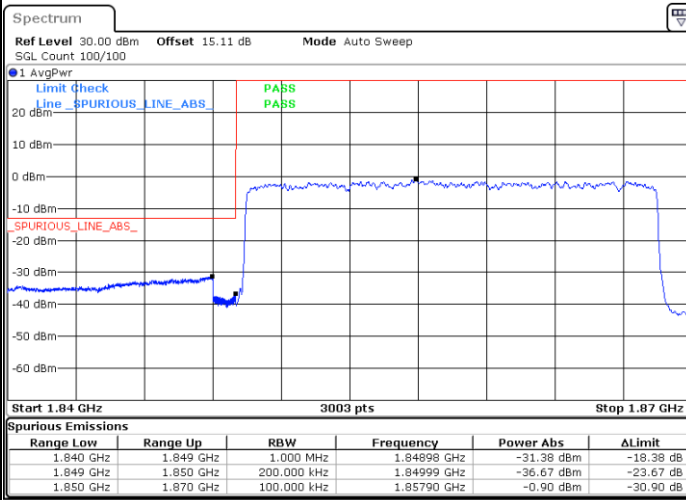
Date: 29.MAR.2021 12:57:23



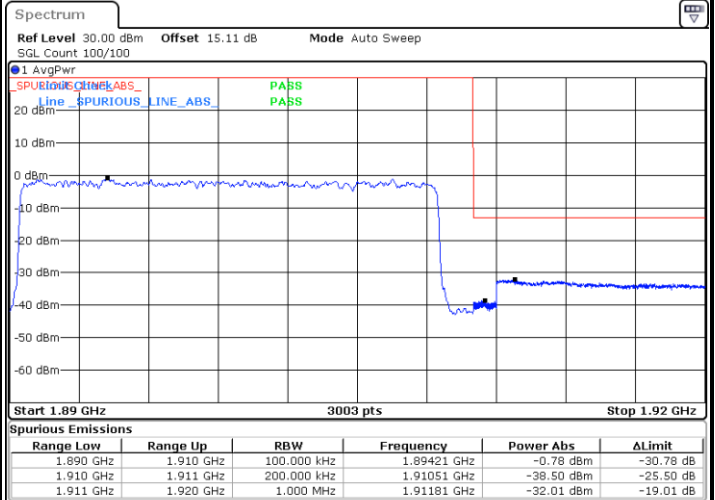
Date: 29.MAR.2021 14:42:02

Lowest Band Edge / Full RB

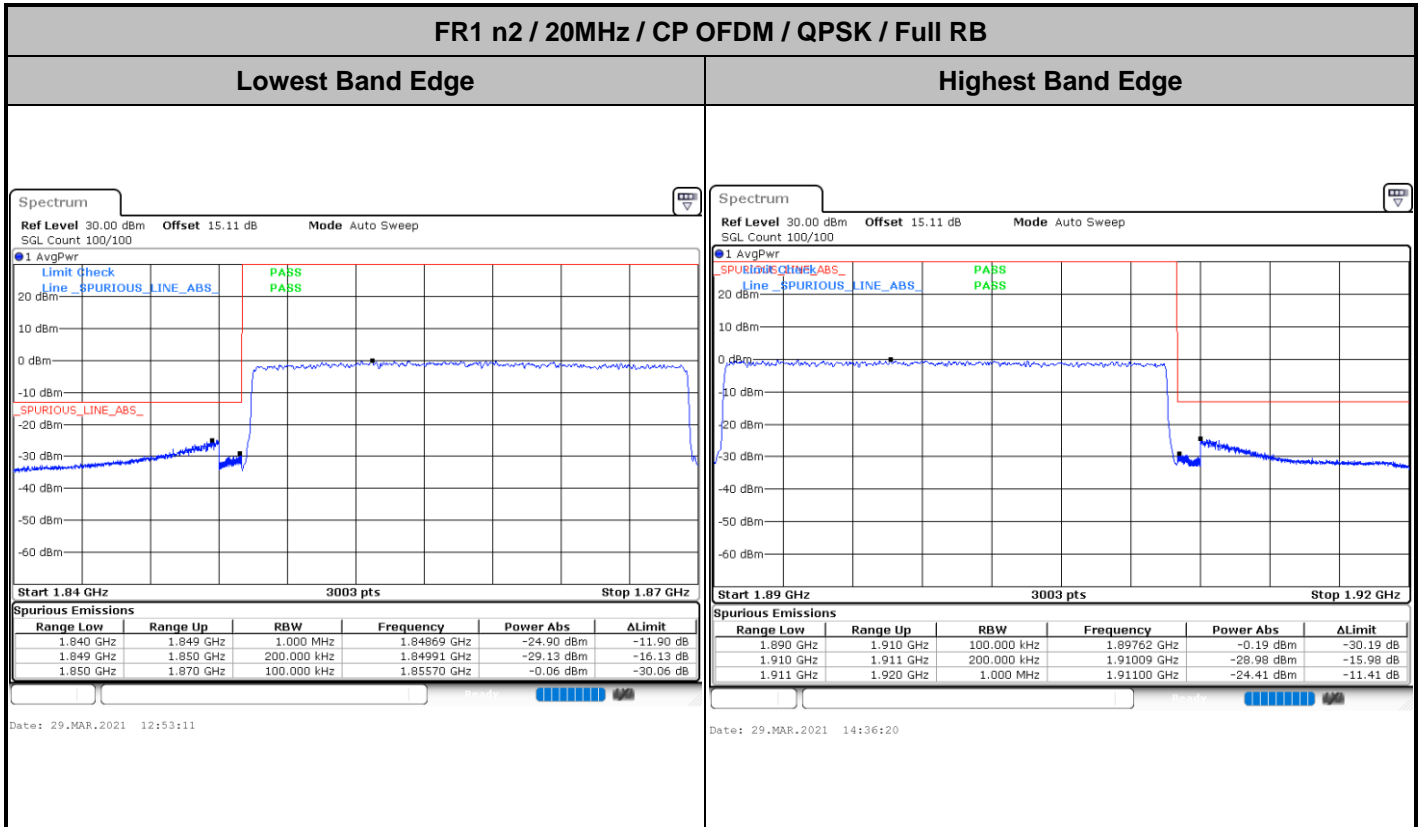
Highest Band Edge / Full RB



Date: 29.MAR.2021 12:54:49



Date: 29.MAR.2021 14:39:22

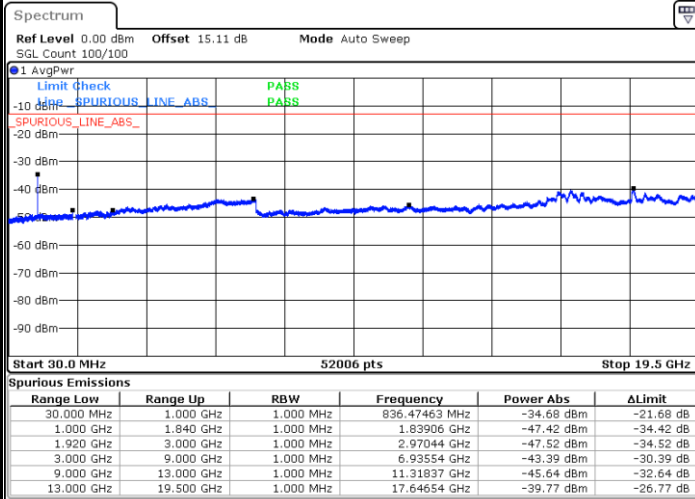




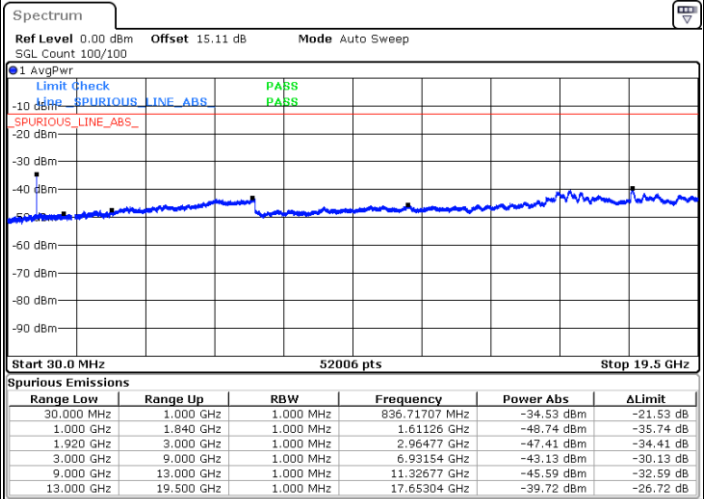
Conducted Spurious Emission

FR1 n2 / 5MHz / DFT-S OFDM / QPSK / 1RB1

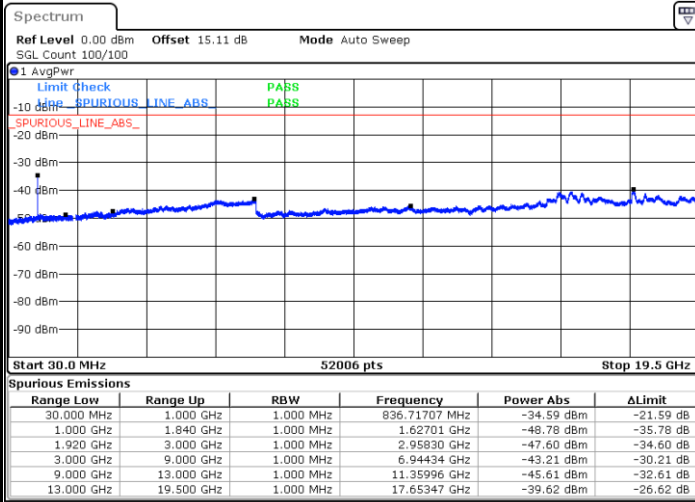
Lowest Channel



Middle Channel



Highest Channel





Frequency Stability

Test Conditions		FR1 n2 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0060	PASS
40	Normal Voltage	0.0003	
30	Normal Voltage	0.0001	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0005	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0022	
-20	Normal Voltage	0.0004	
-30	Normal Voltage	0.0017	
20	Maximum Voltage	0.0004	
20	Normal Voltage	0.0005	
20	Battery End Point	0.0005	

Note:

1. Normal Voltage =3.87 V. ; Battery End Point (BEP) =3.67 V. ; Maximum Voltage =4.26 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



FR1 n5

<Main>

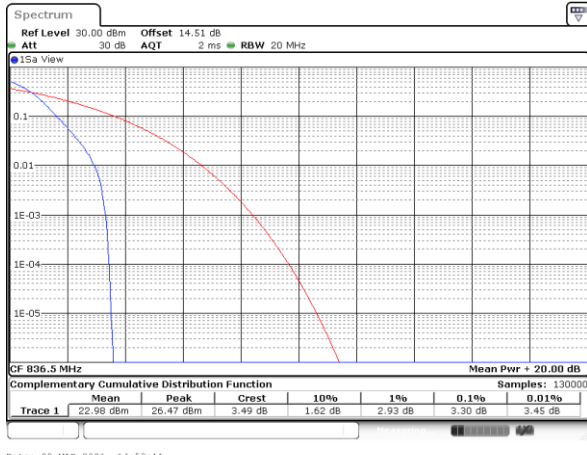
Peak-to-Average Ratio

Mode	FR1 n5 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Middle CH	3.30	4.38	5.54	5.86	PASS
Mode	FR1 n5 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.58				PASS



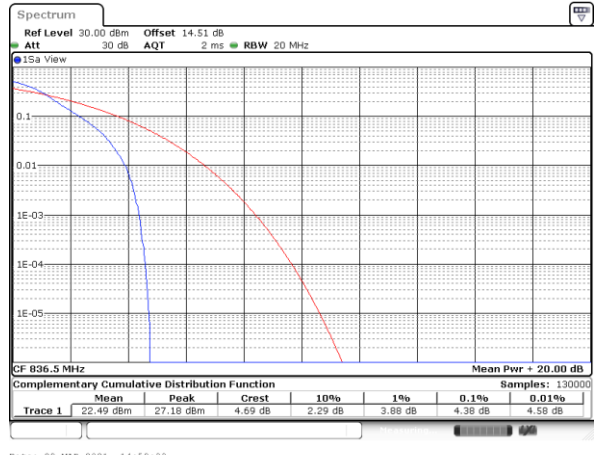
FR1 n5 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



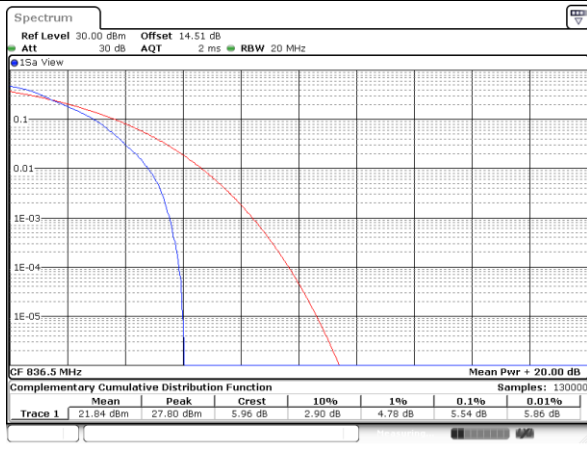
Date: 29.MAR.2021 14:59:11

QPSK



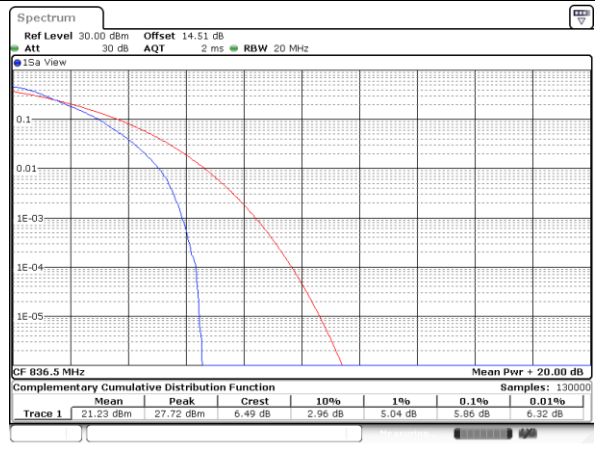
Date: 29.MAR.2021 14:59:33

16QAM



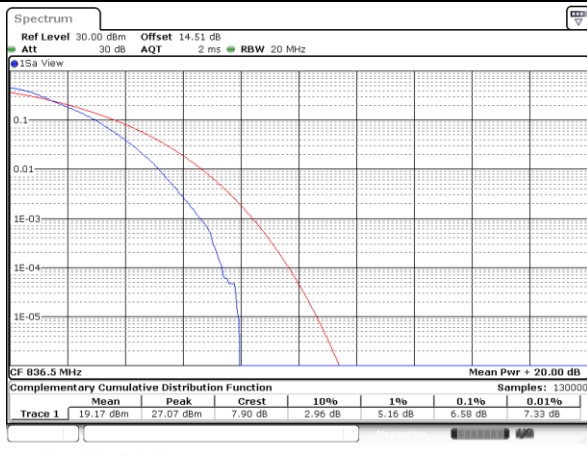
Date: 29.MAR.2021 14:59:42

64QAM



Date: 29.MAR.2021 14:59:50

256QAM



Date: 29.MAR.2021 15:00:05



26dB Bandwidth

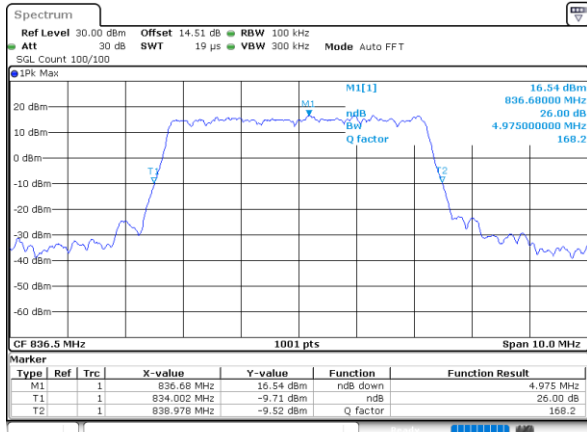
Mode	FR1 n5 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.97		9.45		14.18		18.82	

Mode	FR1 n5 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.92	4.92	9.87	9.85	14.93	14.87	19.70	19.90
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	5.01	4.96	9.79	9.77	14.87	14.99	19.82	19.70



FR1 n5 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

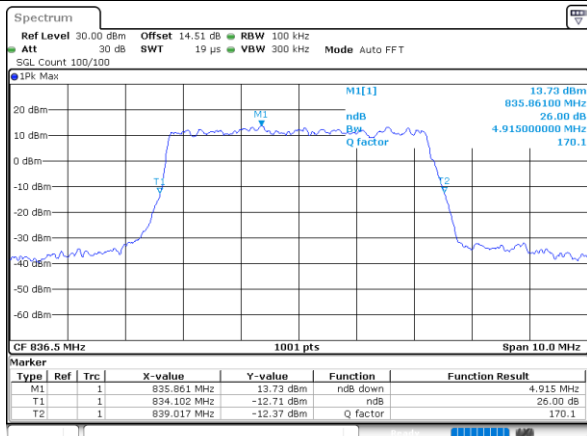
PI/2 BPSK



Date: 29_MAR_2021 15:43:46

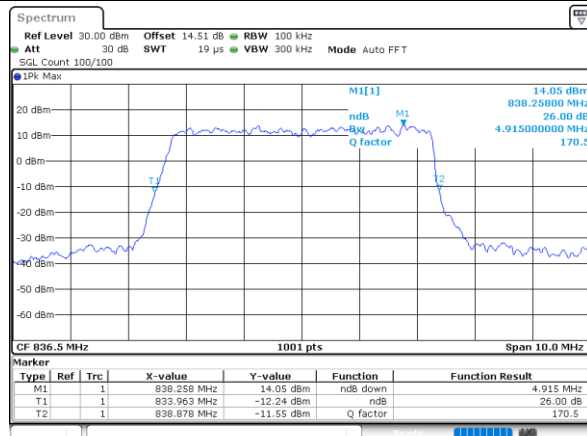
FR1 n5 / 5MHz / CP OFDM / Middle Channel / Full RB

QPSK



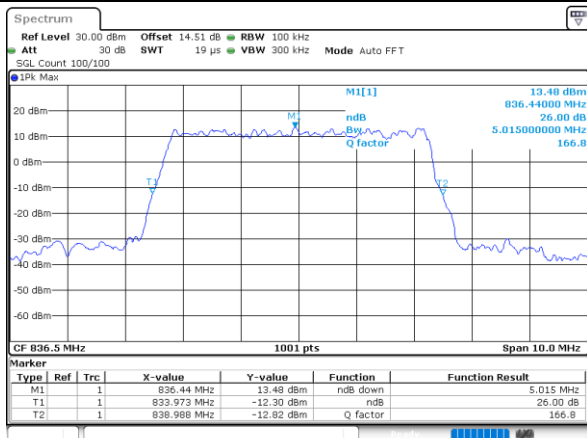
Date: 29_MAR_2021 15:44:10

16QAM



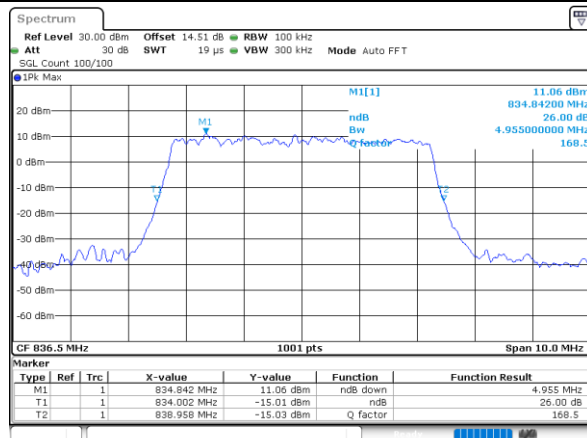
Date: 29_MAR_2021 15:44:23

64QAM



Date: 29_MAR_2021 15:44:36

256QAM

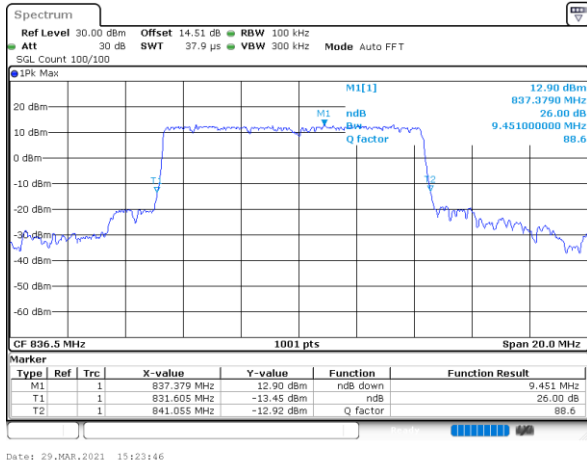


Date: 29_MAR_2021 15:44:50



FR1 n5 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

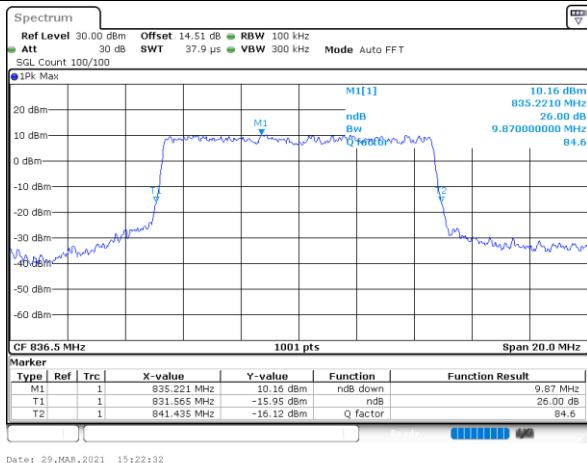
PI/2 BPSK



Date: 29_MAR_2021 15:23:46

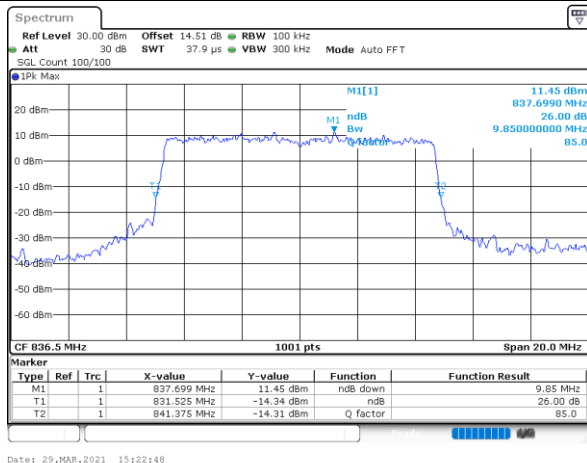
FR1 n5 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



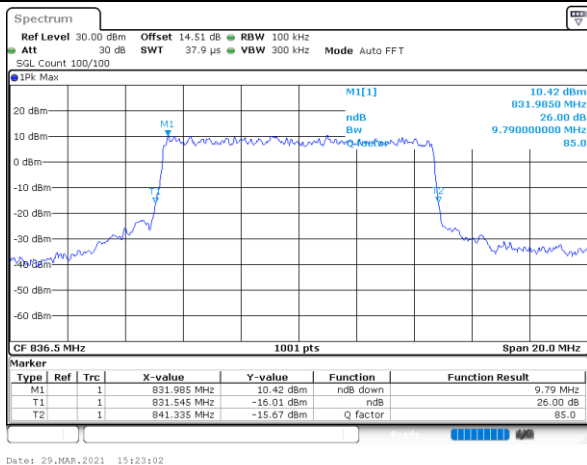
Date: 29_MAR_2021 15:22:32

16QAM



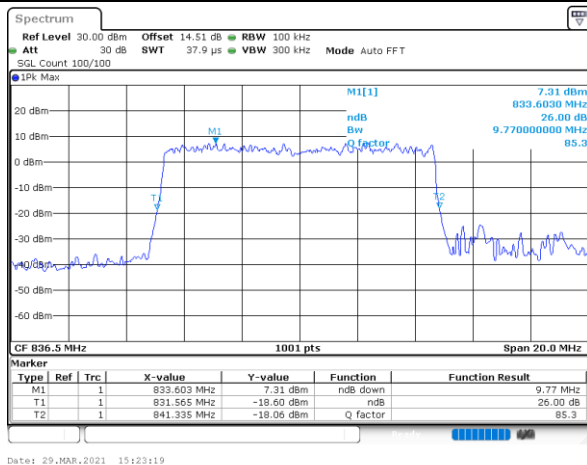
Date: 29_MAR_2021 15:22:48

64QAM



Date: 29_MAR_2021 15:23:02

256QAM

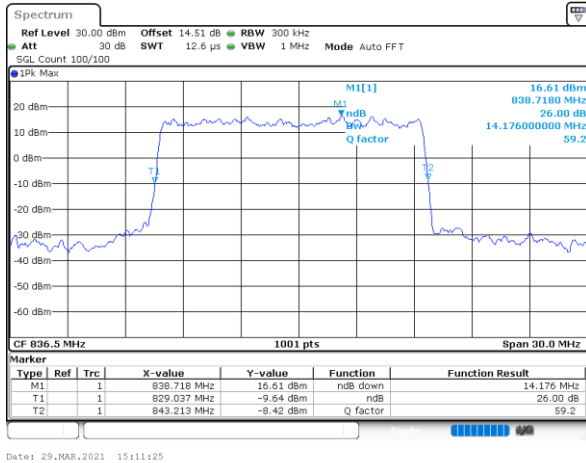


Date: 29_MAR_2021 15:23:19



FR1 n5 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

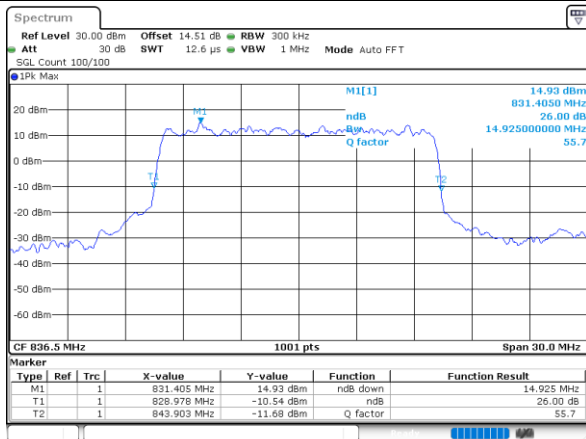
PI/2 BPSK



Date: 29_MAR_2021 15:11:25

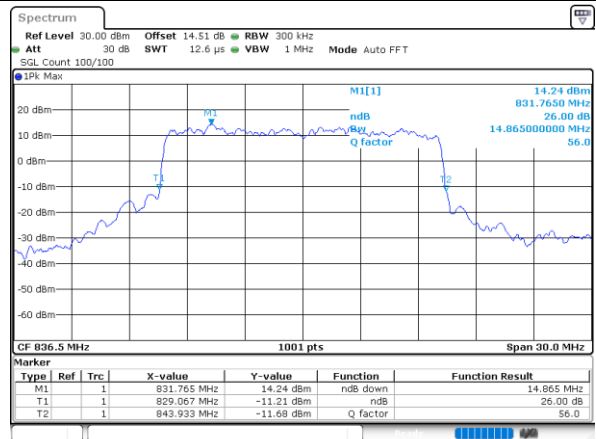
FR1 n5 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



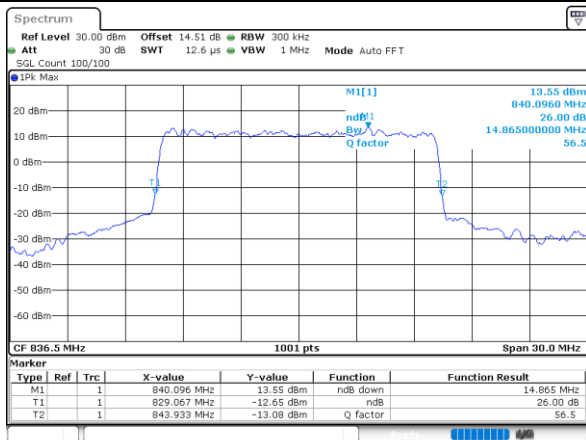
Date: 29_MAR_2021 15:11:46

16QAM



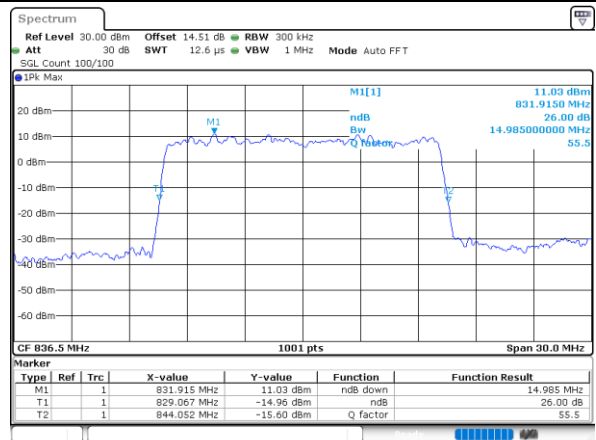
Date: 29_MAR_2021 15:11:58

64QAM



Date: 29_MAR_2021 15:12:10

256QAM

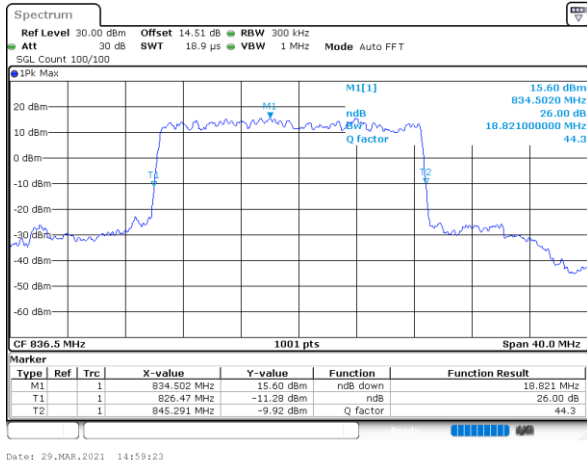


Date: 29_MAR_2021 15:12:35



FR1 n5 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

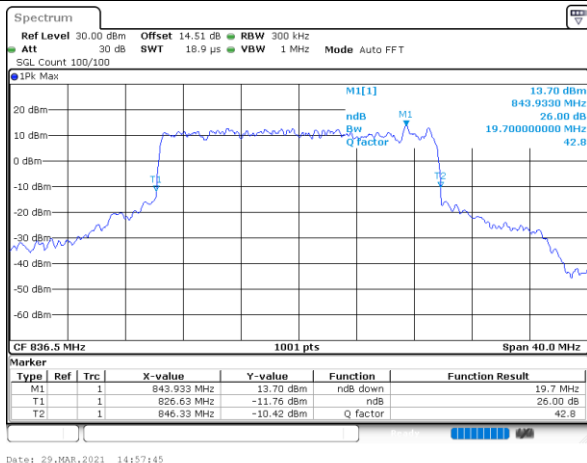
PI/2 BPSK



Date: 29_MAR_2021 14:59:23

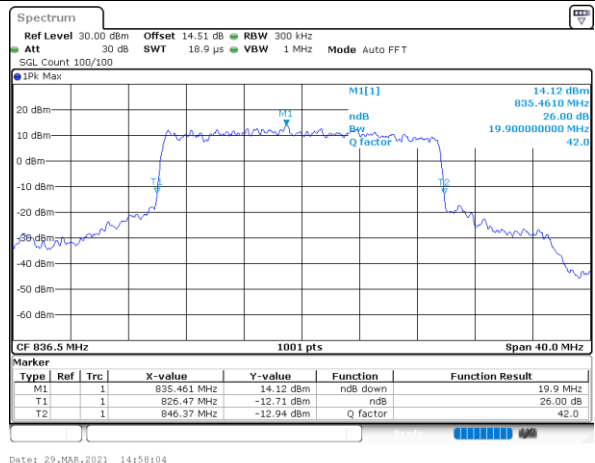
FR1 n5 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



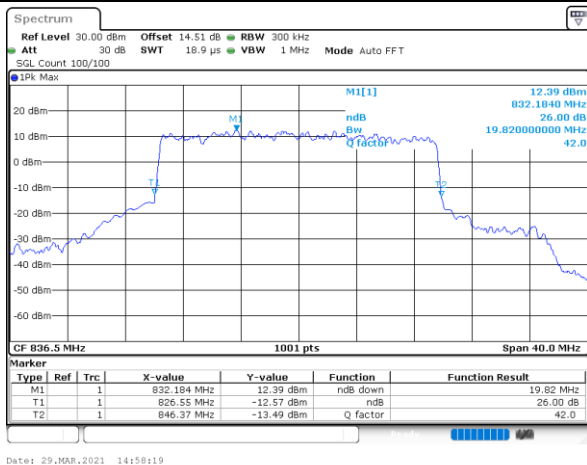
Date: 29_MAR_2021 14:57:45

16QAM



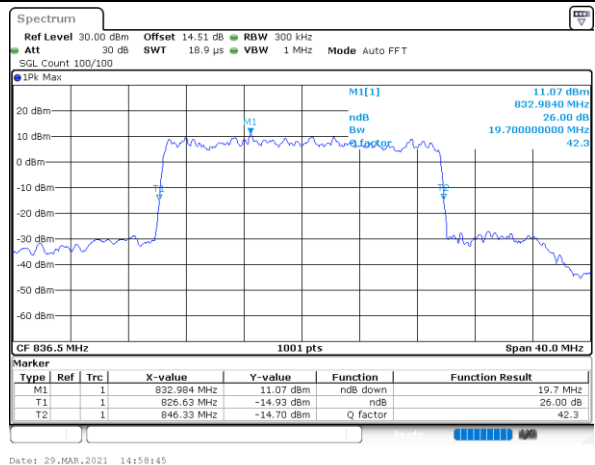
Date: 29_MAR_2021 14:58:04

64QAM



Date: 29_MAR_2021 14:58:19

256QAM



Date: 29_MAR_2021 14:58:15



Occupied Bandwidth

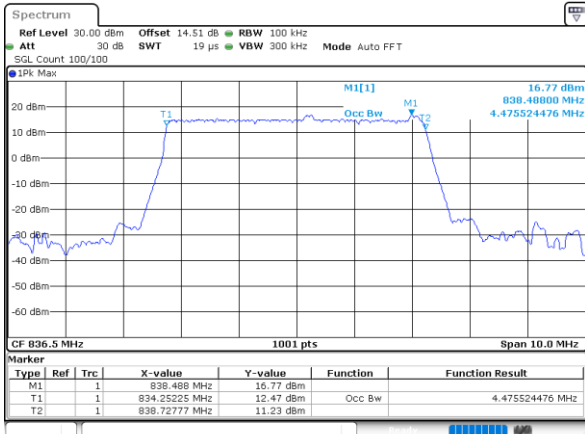
Mode	FR1 n5 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.48		8.93		13.46		17.90	

Mode	FR1 n5 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.48	4.49	9.27	9.25	14.12	14.12	18.86	18.90
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.51	4.49	9.29	9.29	14.15	14.18	18.82	18.90



FR1 n5 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

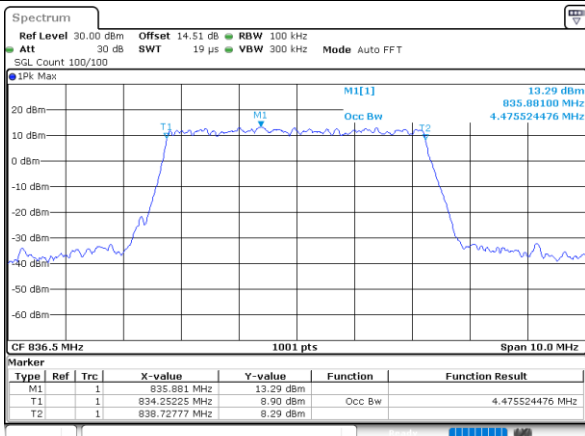
PI/2 BPSK



Date: 29_MAR_2021 15:43:39

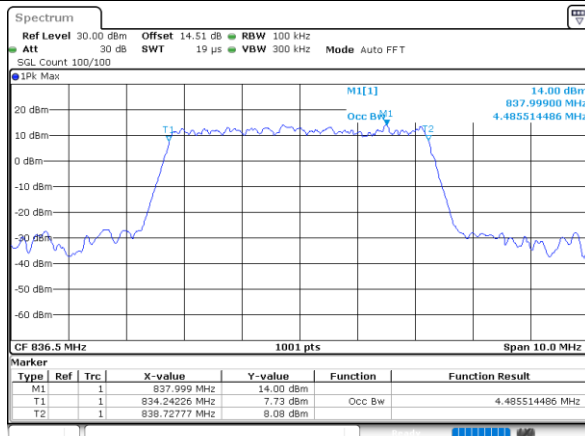
FR1 n5 / 5MHz / CP OFDM / Middle Channel / Full RB

QPSK



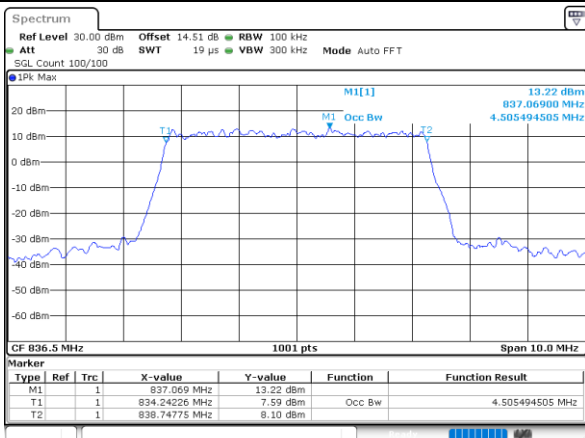
Date: 29_MAR_2021 15:44:04

16QAM



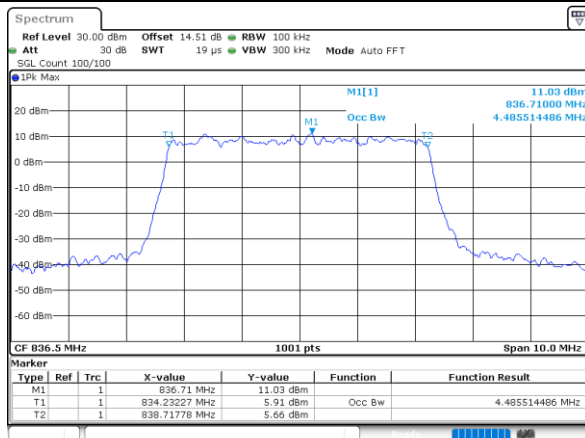
Date: 29_MAR_2021 15:44:18

64QAM



Date: 29_MAR_2021 15:44:30

256QAM

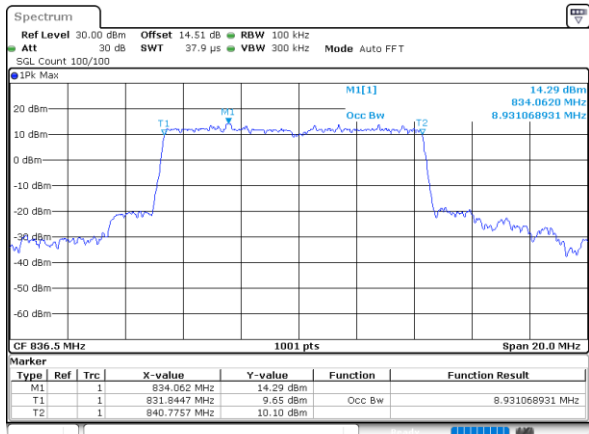


Date: 29_MAR_2021 15:44:50



FR1 n5 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

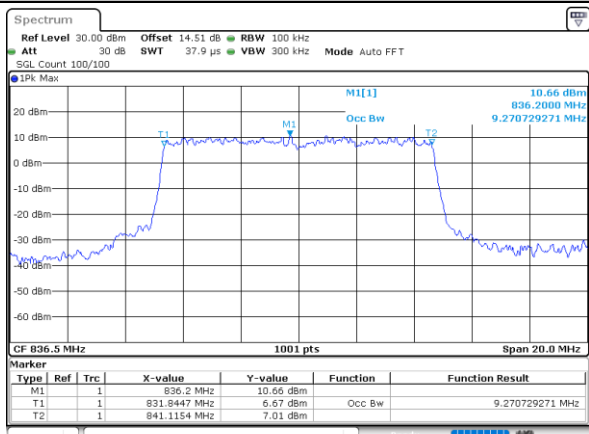
PI/2 BPSK



Date: 29_MAR_2021 15:23:37

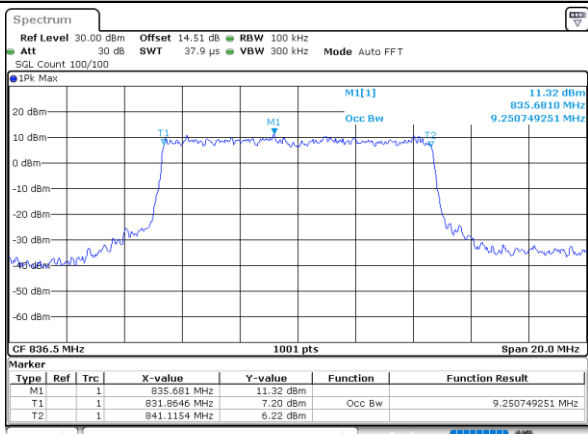
FR1 n5 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



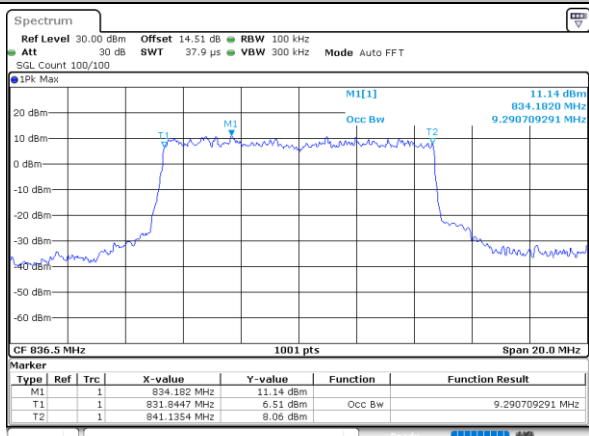
Date: 29_MAR_2021 15:22:24

16QAM



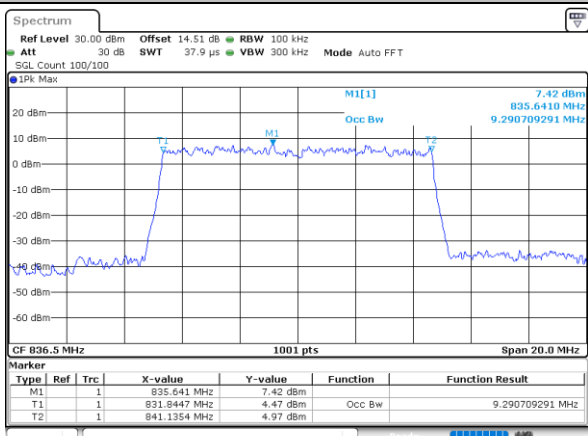
Date: 29_MAR_2021 15:22:41

64QAM



Date: 29_MAR_2021 15:22:56

256QAM

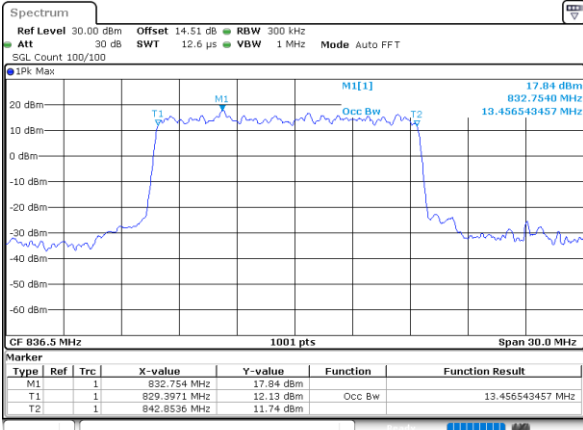


Date: 29_MAR_2021 15:23:13



FR1 n5 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

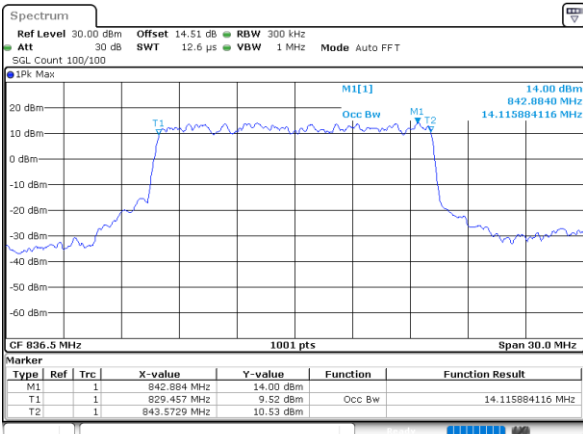
PI/2 BPSK



Date: 29_MAR_2021 15:11:18

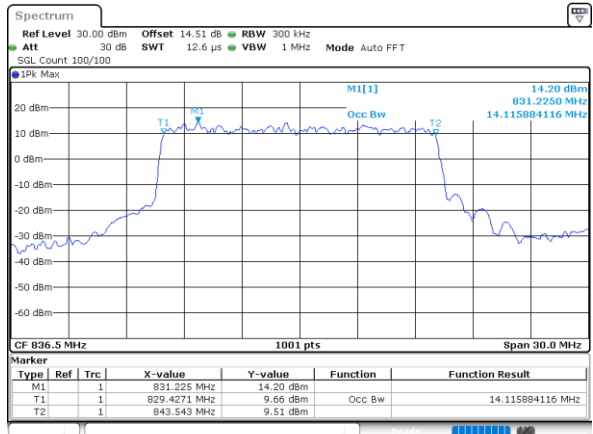
FR1 n5 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



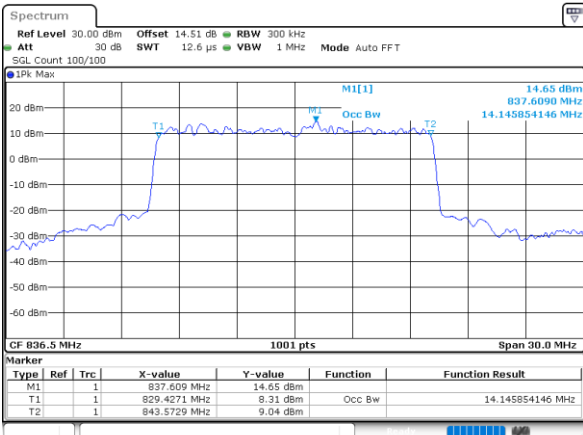
Date: 29_MAR_2021 15:11:40

16QAM



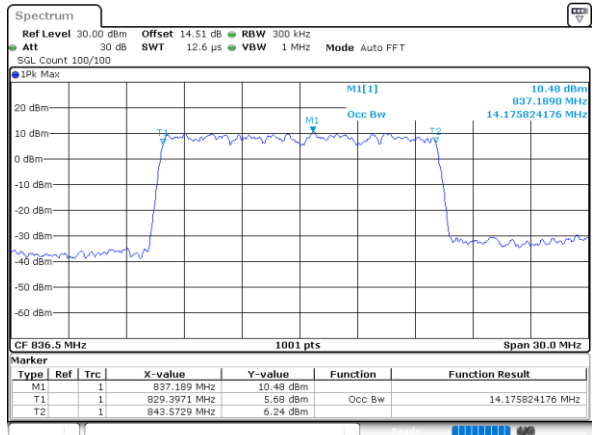
Date: 29_MAR_2021 15:11:53

64QAM



Date: 29_MAR_2021 15:12:05

256QAM

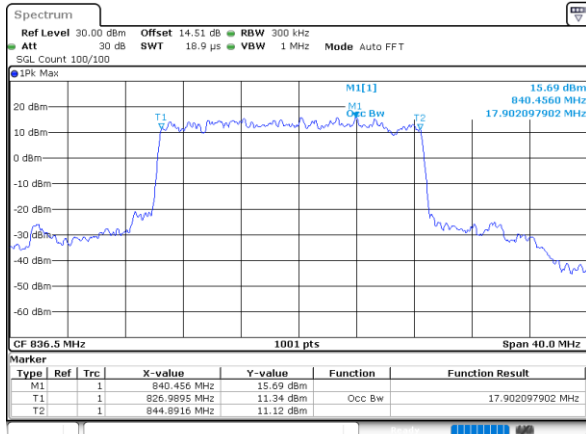


Date: 29_MAR_2021 15:12:22



FR1 n5 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

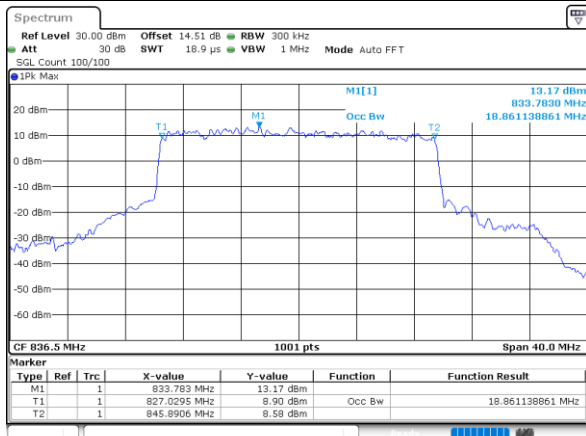
PI/2 BPSK



Date: 29_MAR_2021 14:59:17

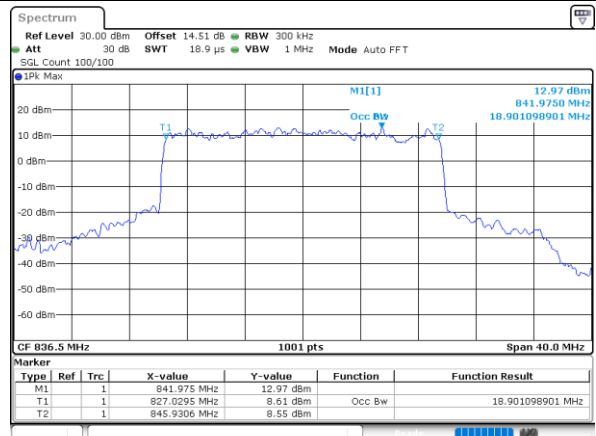
FR1 n5 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



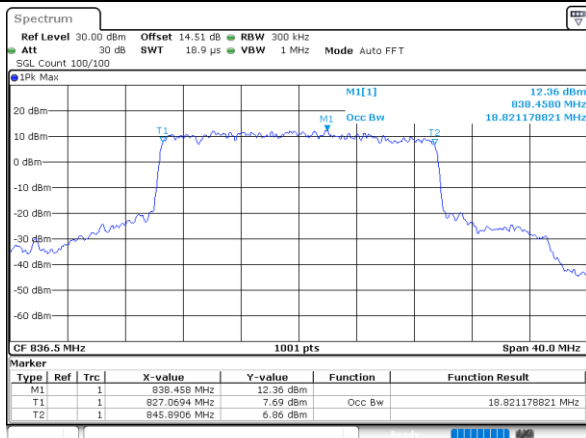
Date: 29_MAR_2021 14:57:38

16QAM



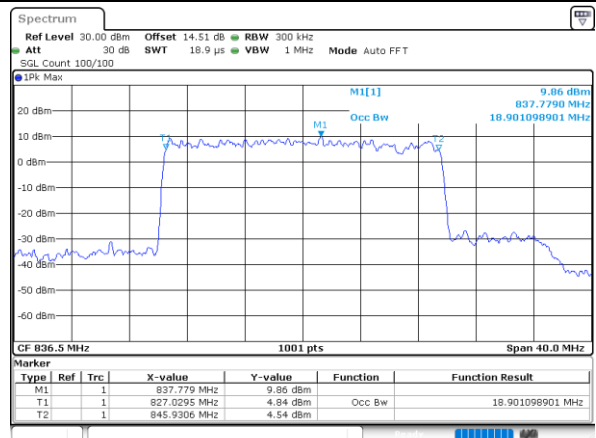
Date: 29_MAR_2021 14:57:57

64QAM



Date: 29_MAR_2021 14:58:13

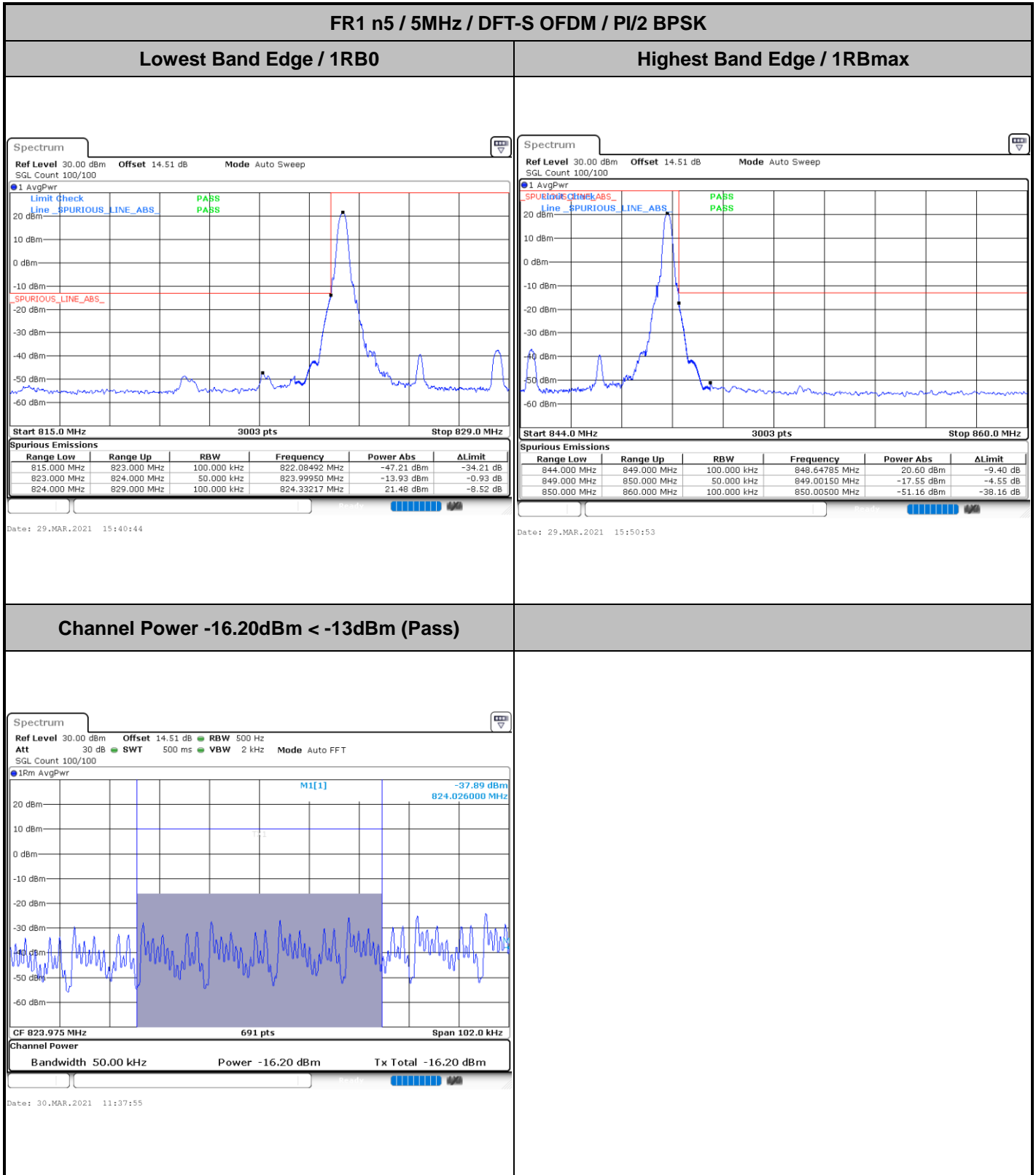
256QAM

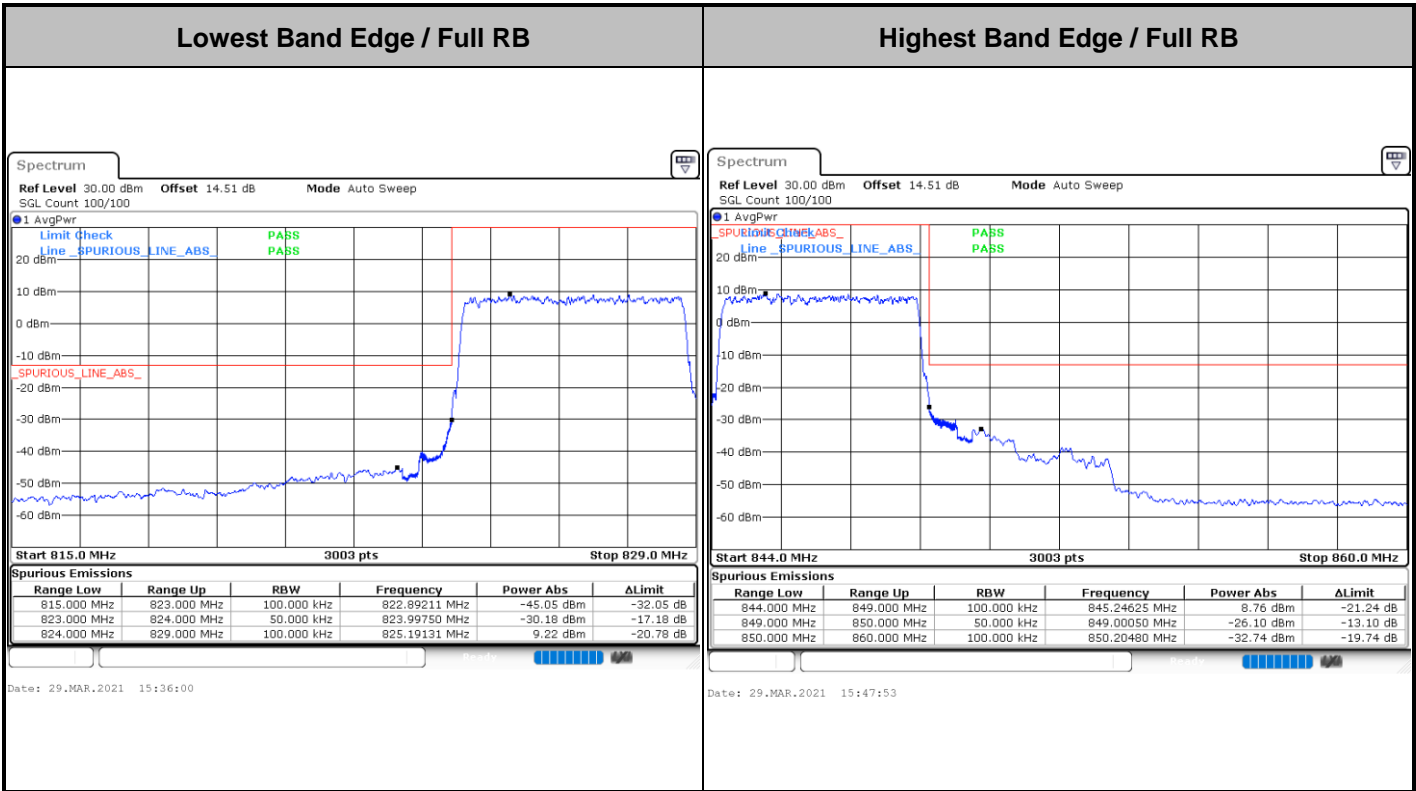


Date: 29_MAR_2021 14:58:35



Conducted Band Edge



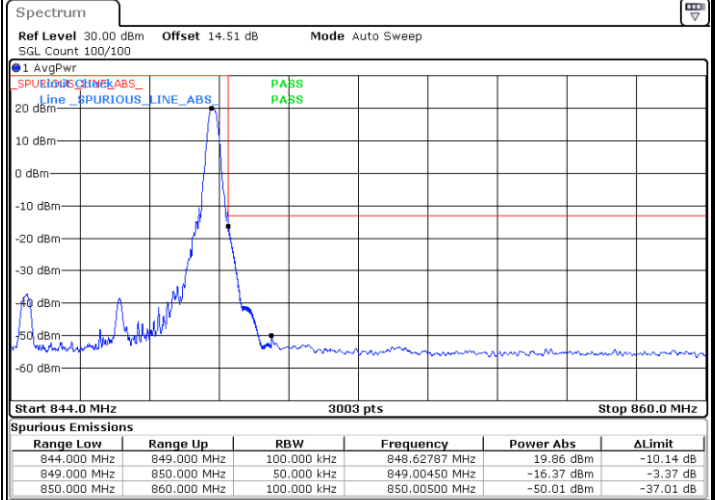
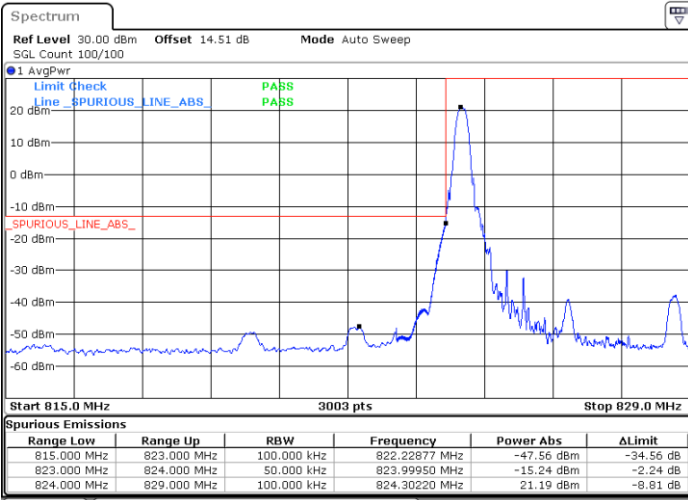




FR1 n5 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

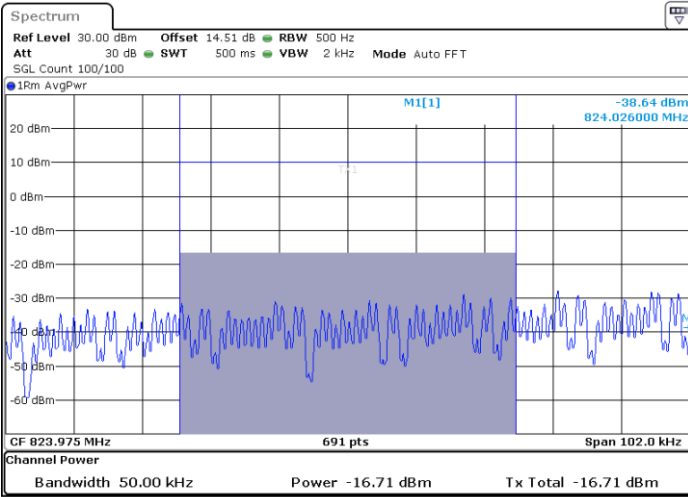
Highest Band Edge / 1RBmax



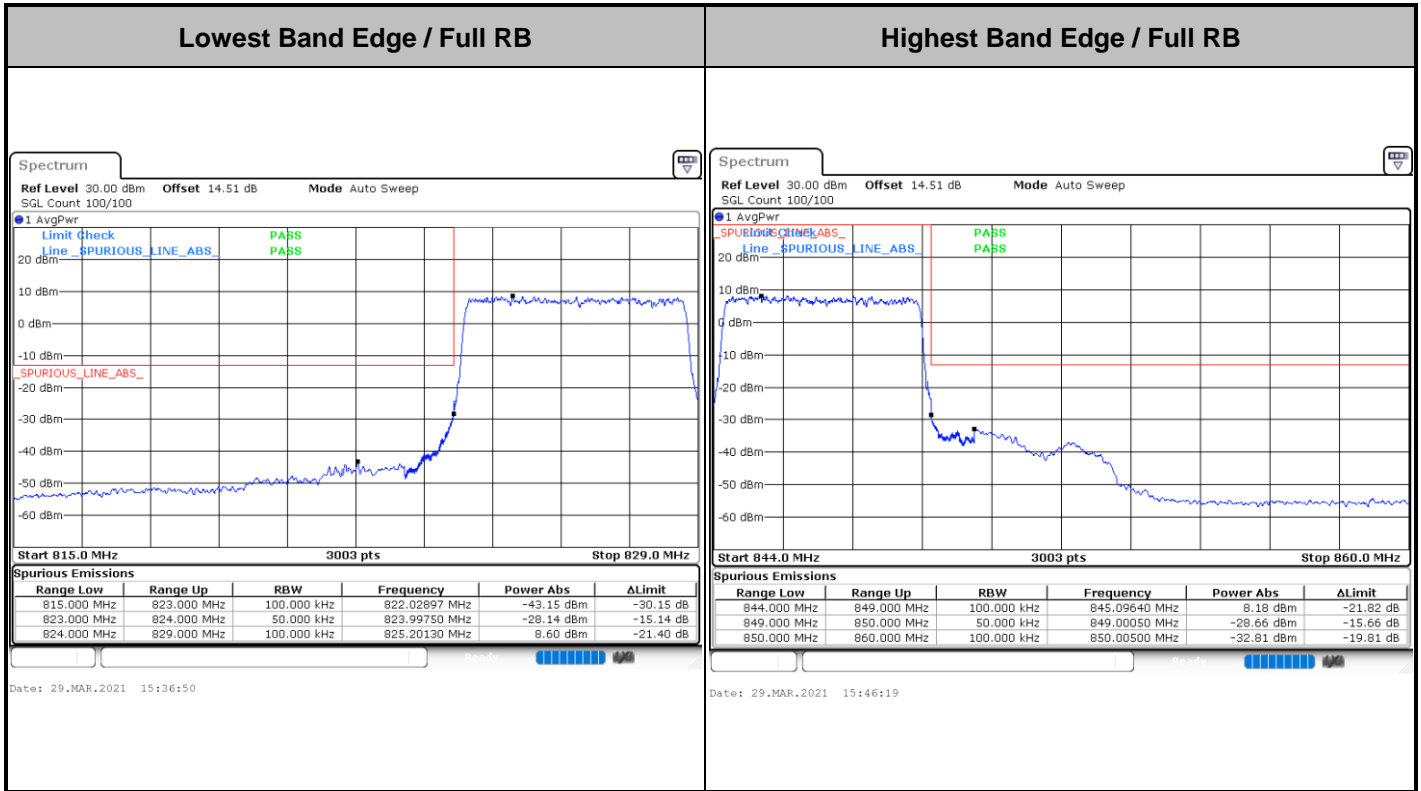
Date: 30.MAR.2021 11:32:30

Date: 29.MAR.2021 15:50:25

Channel Power -16.71dBm < -13dBm (Pass)



Date: 30.MAR.2021 11:36:48

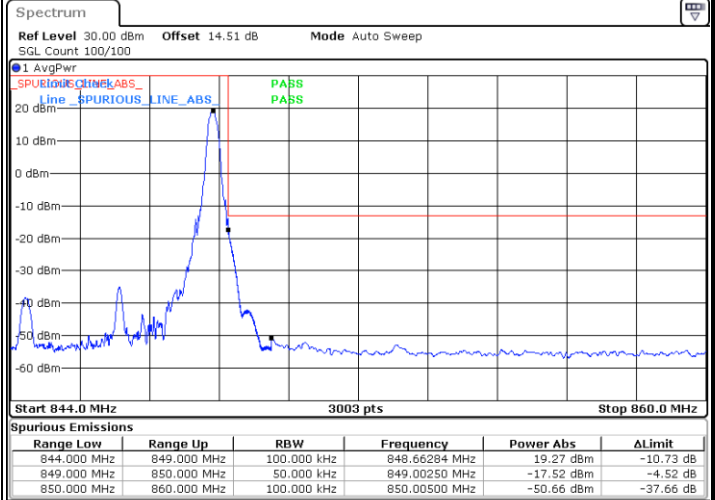
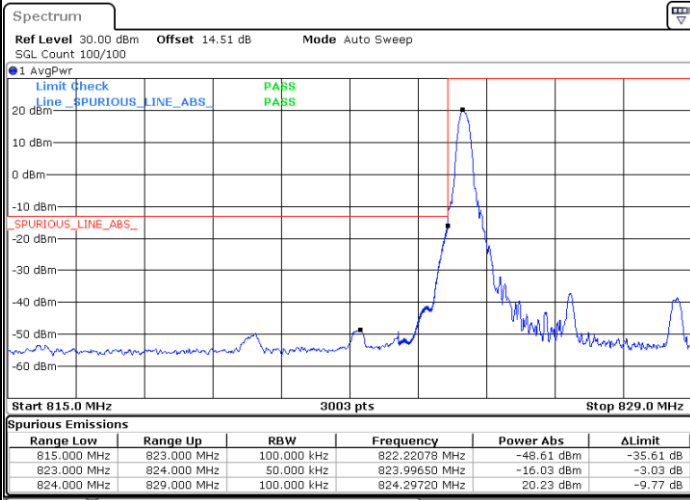




FR1 n5 / 5MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

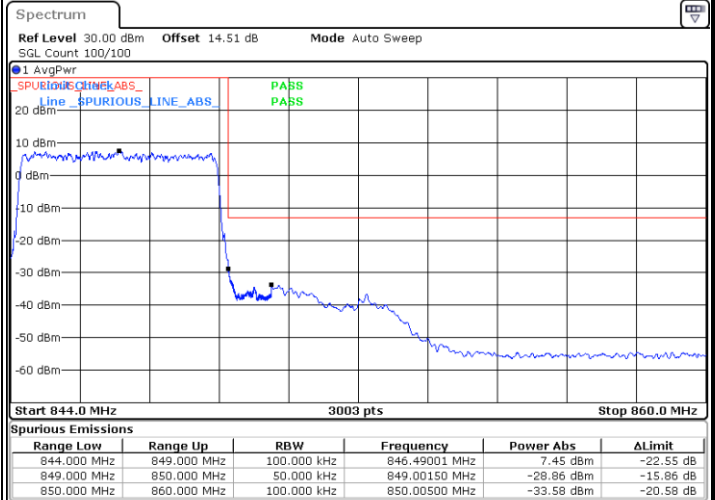
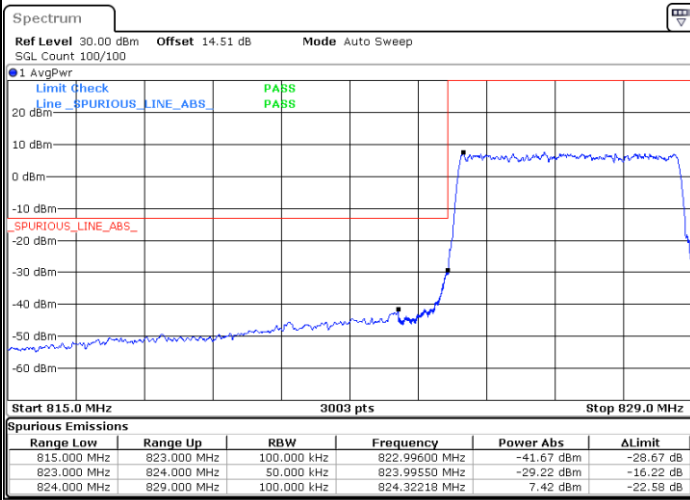


Date: 29.MAR.2021 15:39:48

Date: 29.MAR.2021 15:49:58

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 29.MAR.2021 15:37:19

Date: 29.MAR.2021 15:46:52