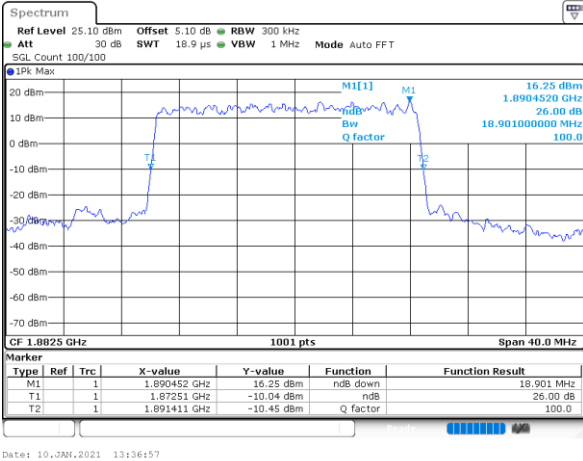




FR1 n25 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

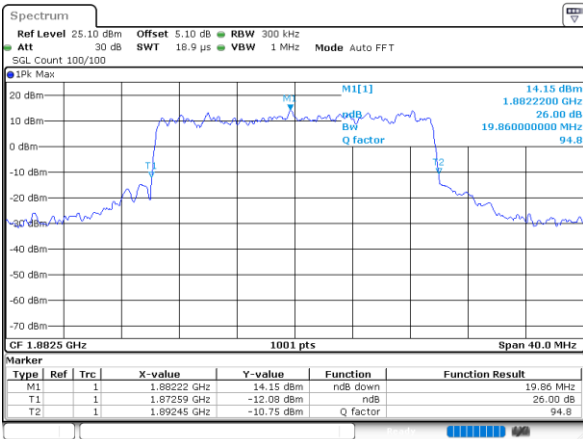
PI/2 BPSK



Date: 10_JAN_2021 13:36:57

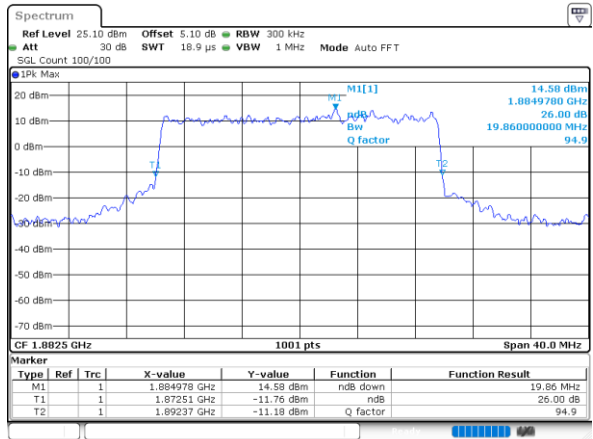
FR1 n25 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



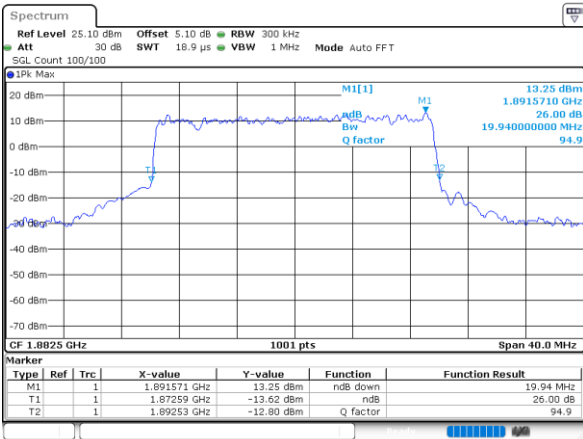
Date: 10_JAN_2021 13:35:01

16QAM



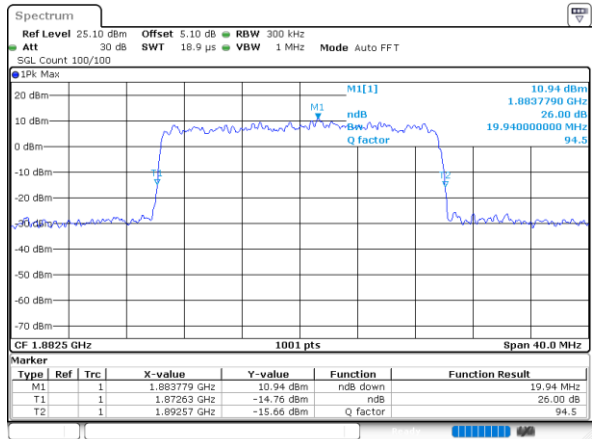
Date: 10_JAN_2021 13:35:22

64QAM



Date: 10_JAN_2021 13:35:42

256QAM



Date: 10_JAN_2021 13:36:06



Occupied Bandwidth

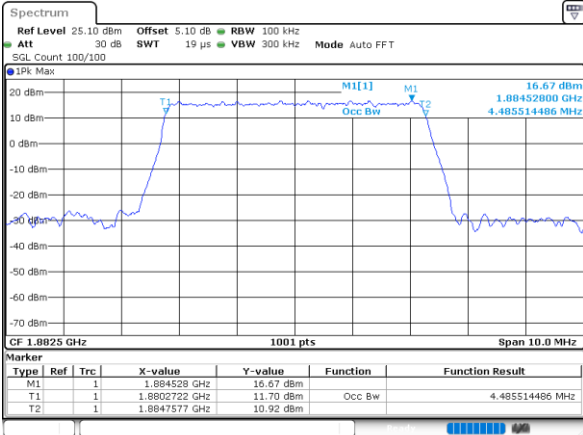
Mode	FR1 n25 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.49		8.91		13.49		17.94	

Mode	FR1 n25 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.49	4.51	9.27	9.27	14.12	14.09	18.98	18.98
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.51	4.48	9.25	9.27	14.21	14.15	18.90	18.90



FR1 n25 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

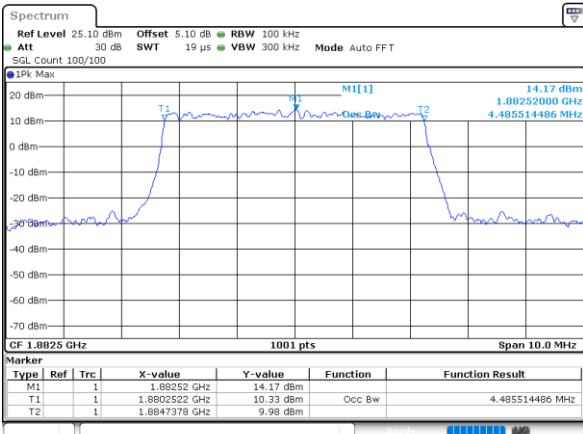
PI/2 BPSK



Date: 10_JAN_2021 12:19:02

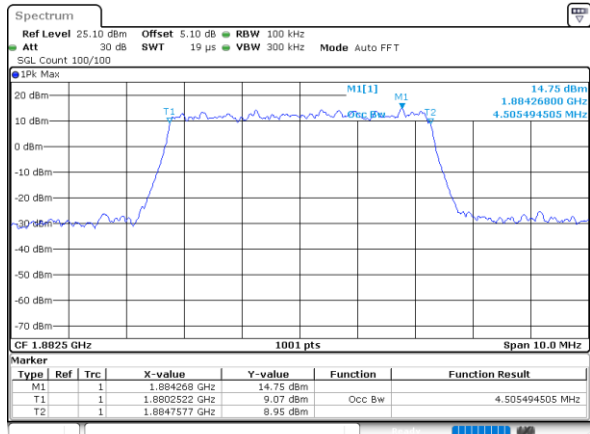
FR1 n25 / 5MHz / CP OFDM / Middle Channel / Full RB

QPSK



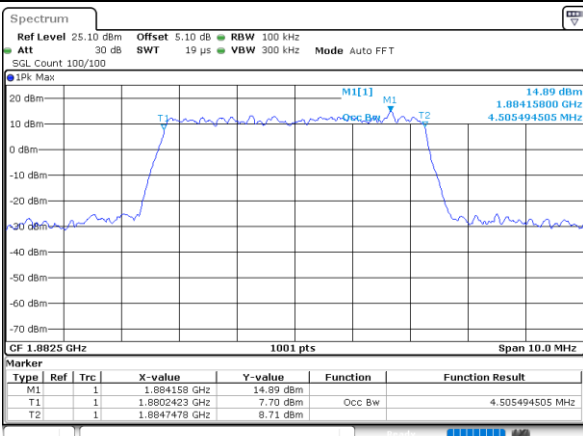
Date: 10_JAN_2021 12:19:24

16QAM



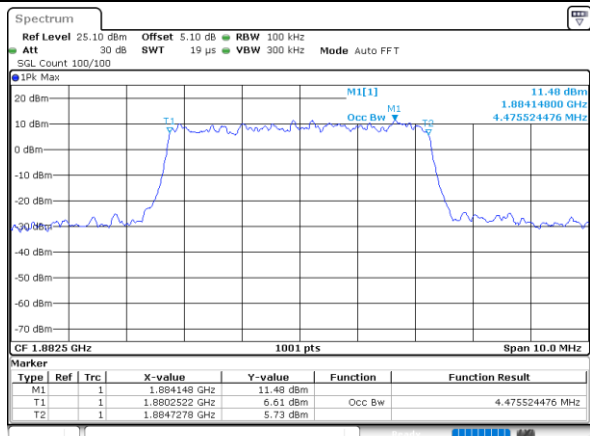
Date: 10_JAN_2021 12:19:40

64QAM



Date: 10_JAN_2021 12:19:57

256QAM

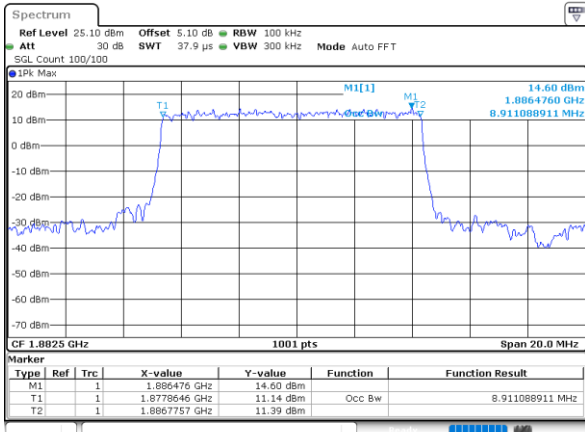


Date: 10_JAN_2021 12:20:16



FR1 n25 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

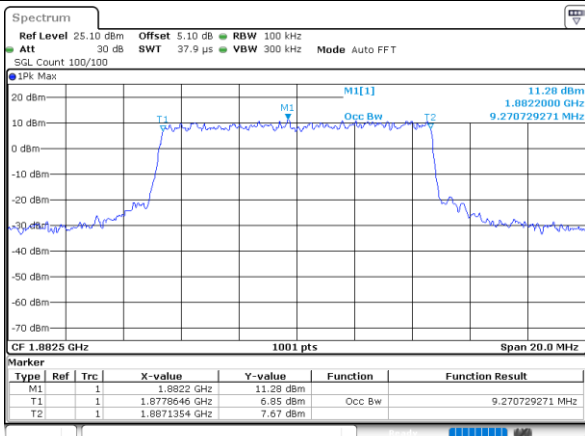
PI/2 BPSK



Date: 10_JAN_2021 12:58:11

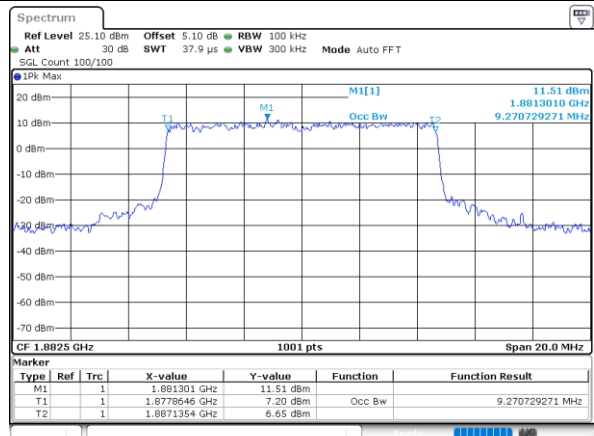
FR1 n25 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



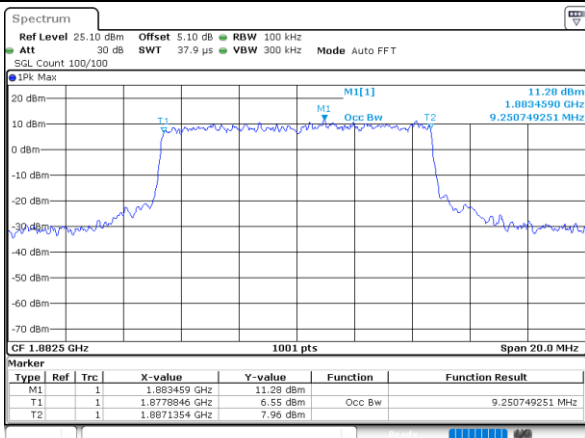
Date: 10_JAN_2021 12:55:30

16QAM



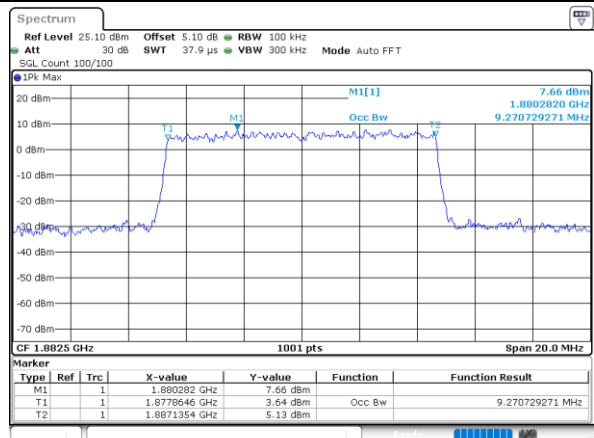
Date: 10_JAN_2021 12:55:47

64QAM



Date: 10_JAN_2021 12:56:02

256QAM

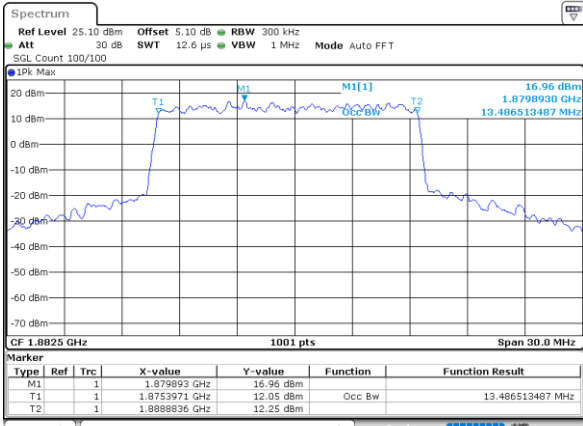


Date: 10_JAN_2021 12:56:44



FR1 n25 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

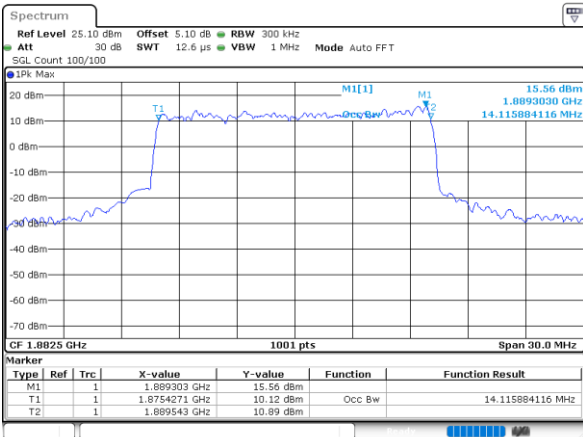
PI/2 BPSK



Date: 10_JAN_2021 13:19:01

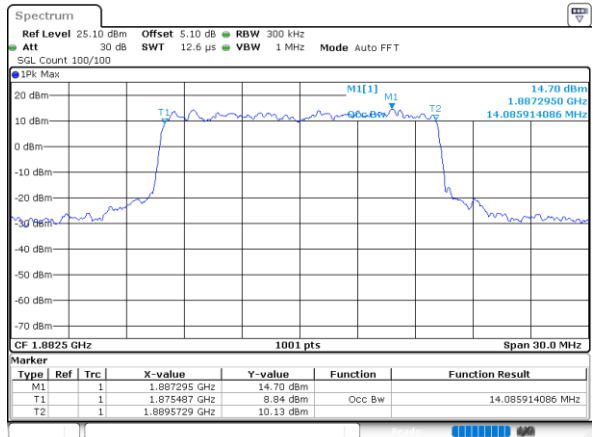
FR1 n25 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



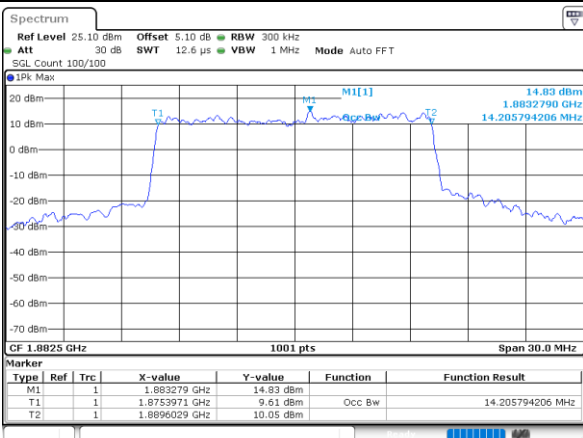
Date: 10_JAN_2021 13:17:38

16QAM



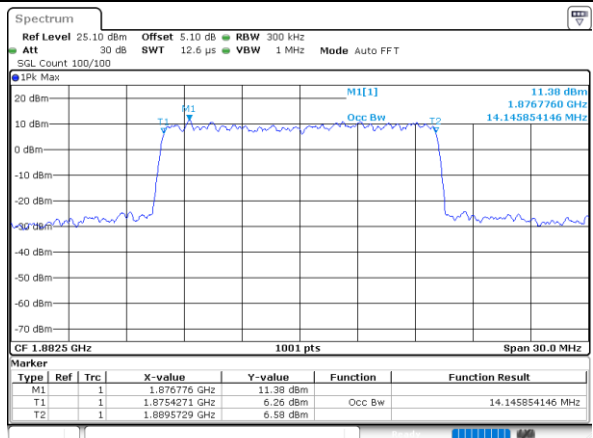
Date: 10_JAN_2021 13:17:55

64QAM



Date: 10_JAN_2021 13:18:18

256QAM

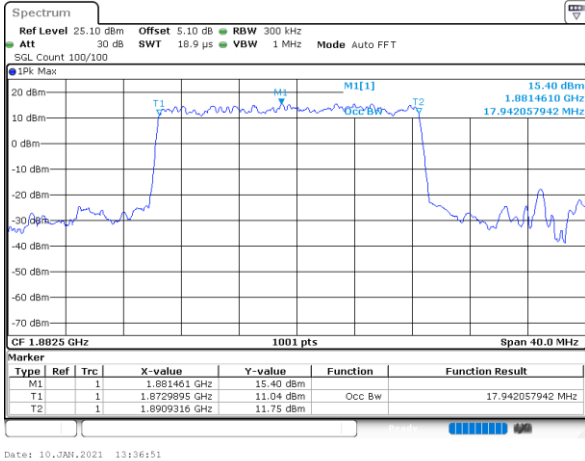


Date: 10_JAN_2021 13:18:37



FR1 n25 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

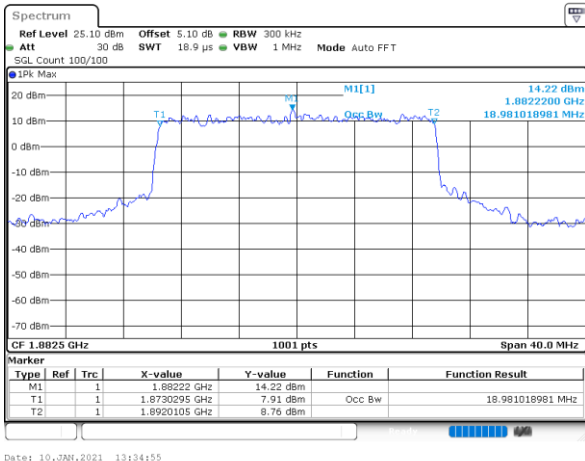
PI/2 BPSK



Date: 10_JAN_2021 13:36:51

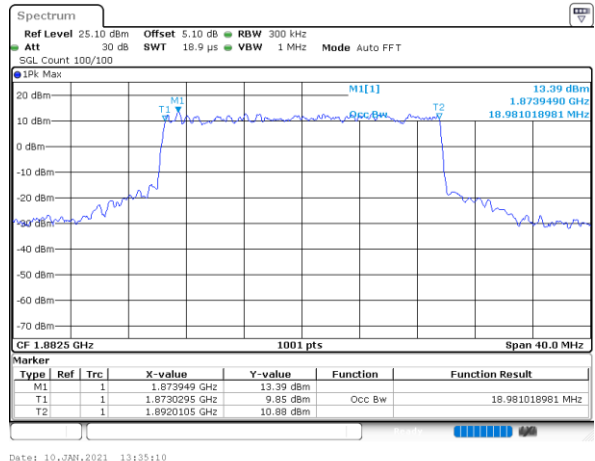
FR1 n25 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



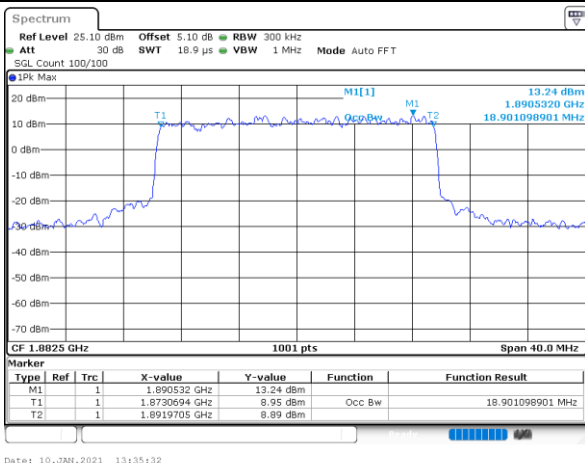
Date: 10_JAN_2021 13:34:55

16QAM



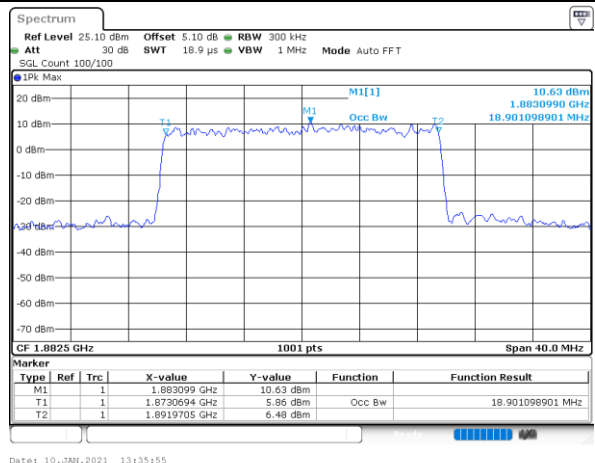
Date: 10_JAN_2021 13:35:10

64QAM



Date: 10_JAN_2021 13:35:32

256QAM



Date: 10_JAN_2021 13:35:55

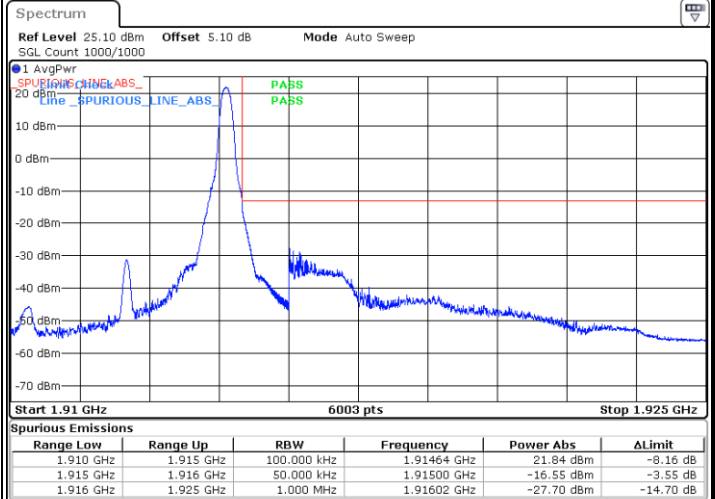
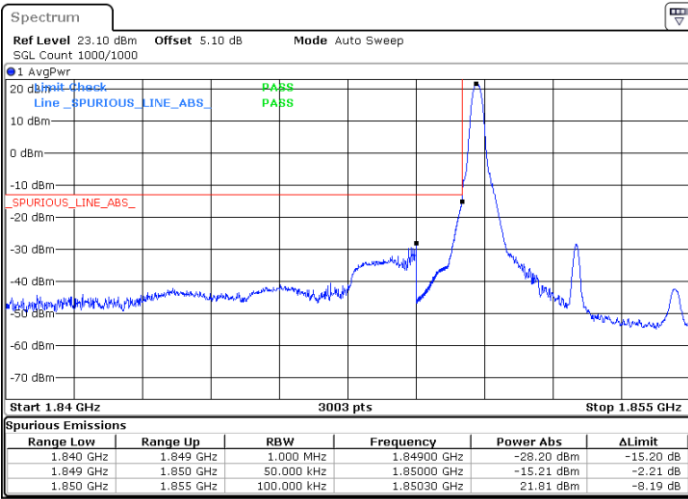


Conducted Band Edge

FR1 n25 / 5MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

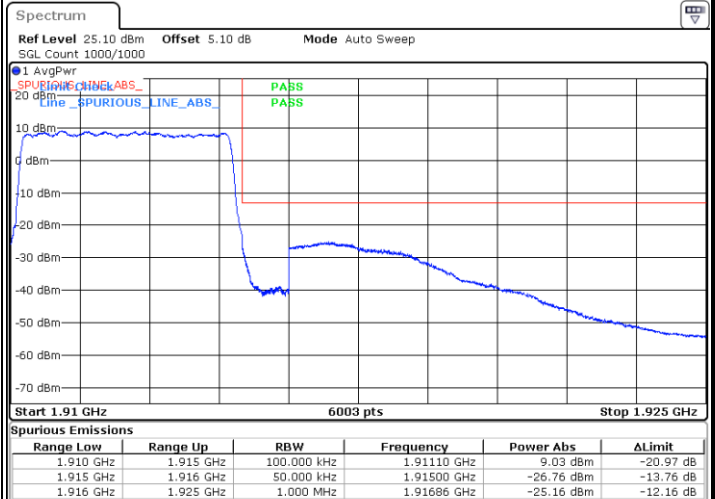
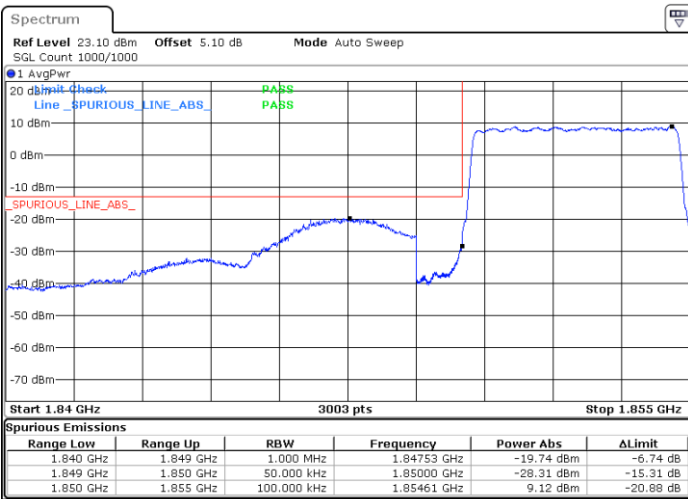


Date: 10.JAN.2021 12:02:01

Date: 10.JAN.2021 12:41:31

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 10.JAN.2021 11:48:22

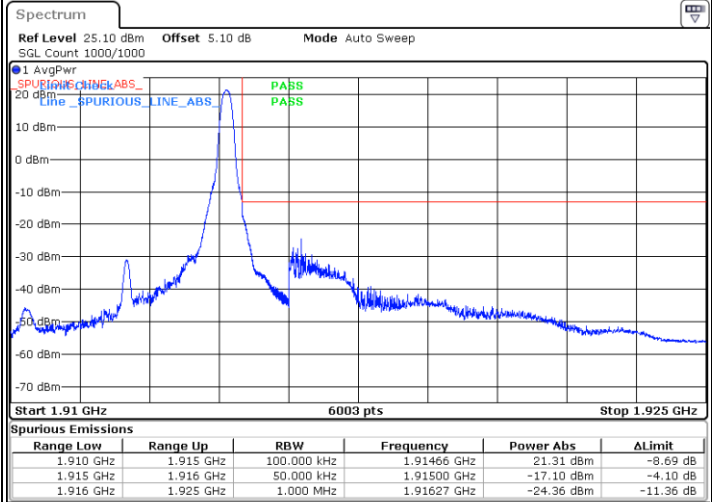
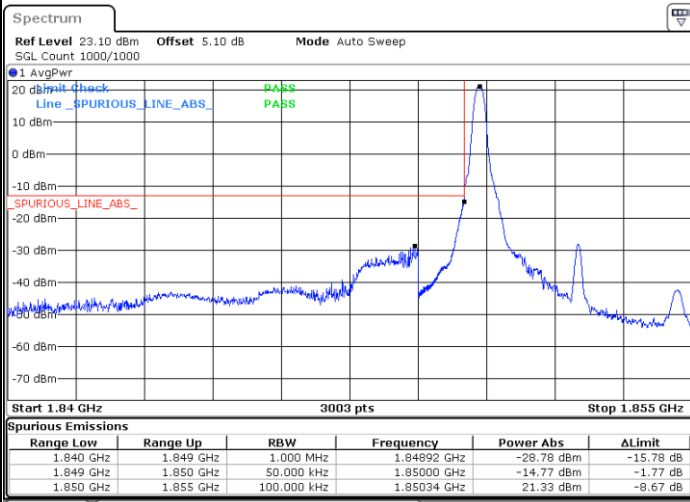
Date: 10.JAN.2021 12:26:50



FR1 n25 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

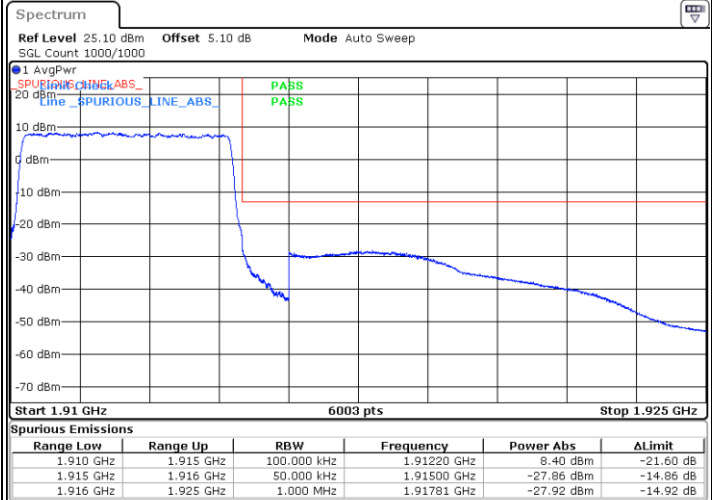
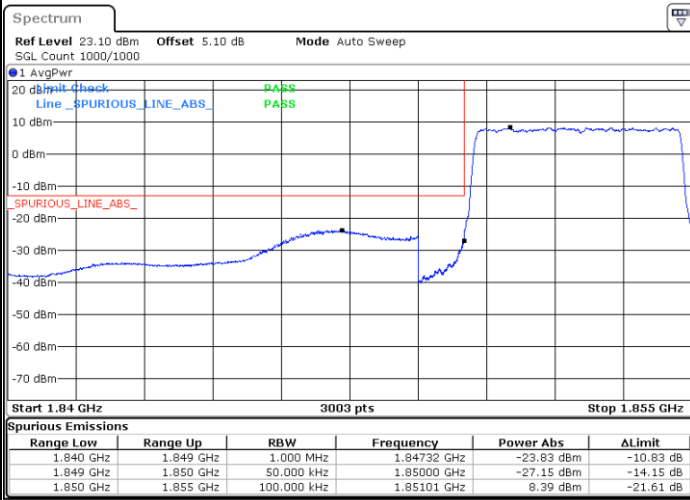


Date: 10.JAN.2021 12:00:10

Date: 10.JAN.2021 12:39:39

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 10.JAN.2021 11:50:28

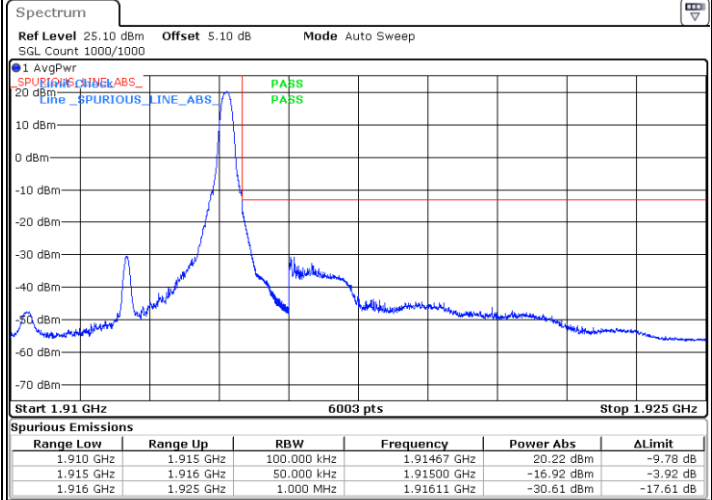
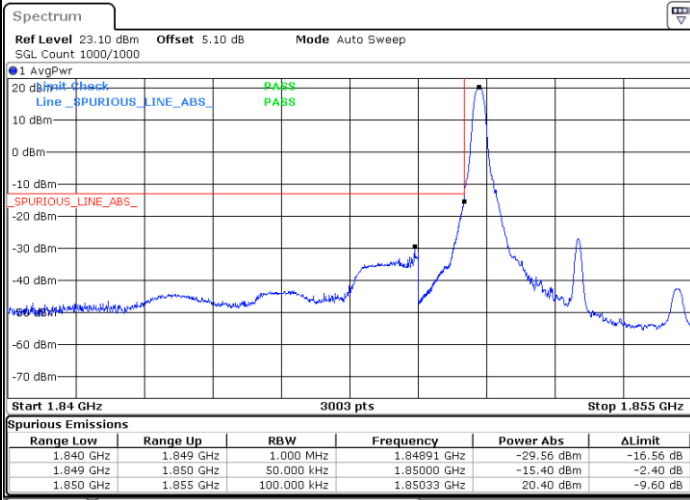
Date: 10.JAN.2021 12:29:15



FR1 n25 / 5MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

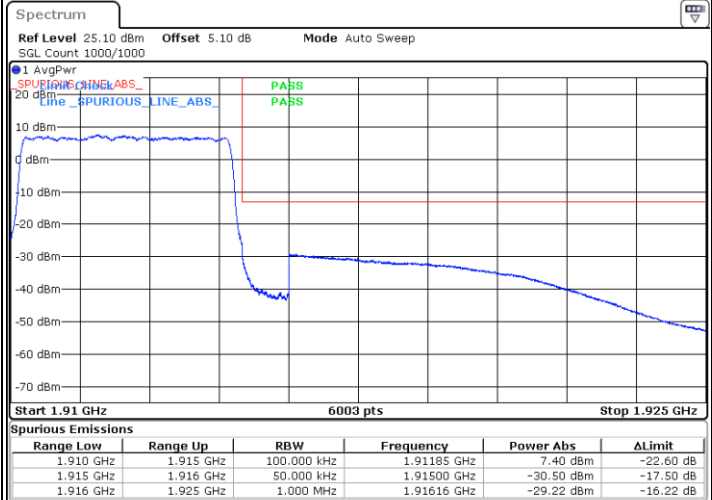
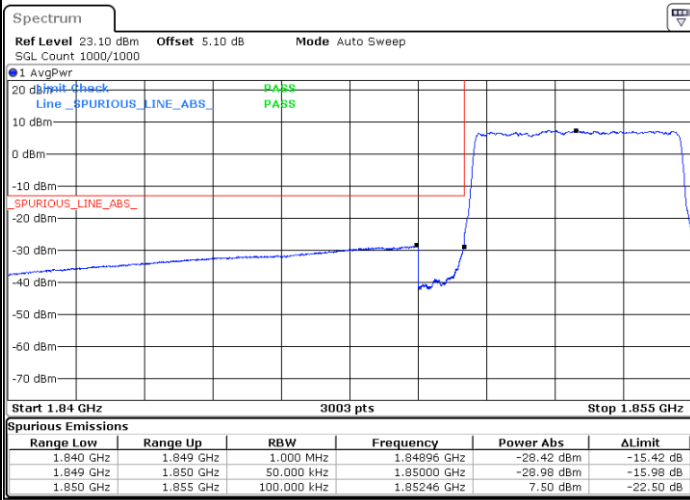


Date: 10.JAN.2021 11:58:17

Date: 10.JAN.2021 12:37:28

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 10.JAN.2021 11:52:19

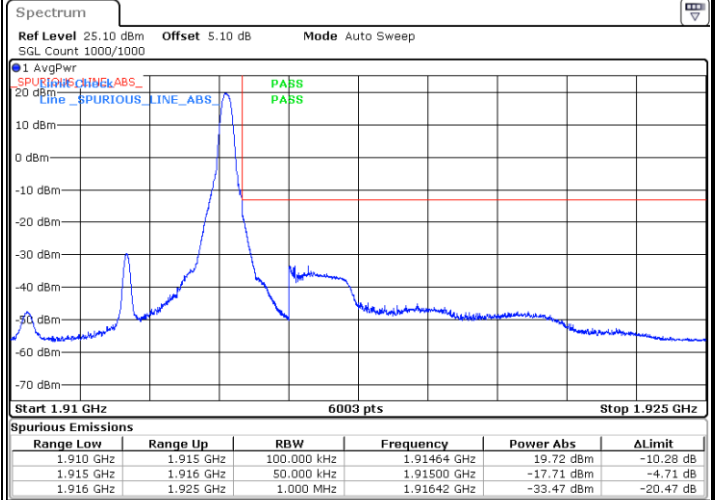
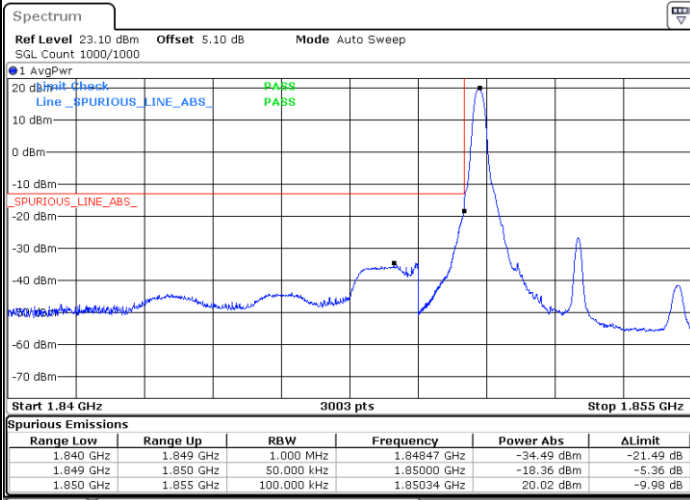
Date: 10.JAN.2021 12:31:08



FR1 n25 / 5MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

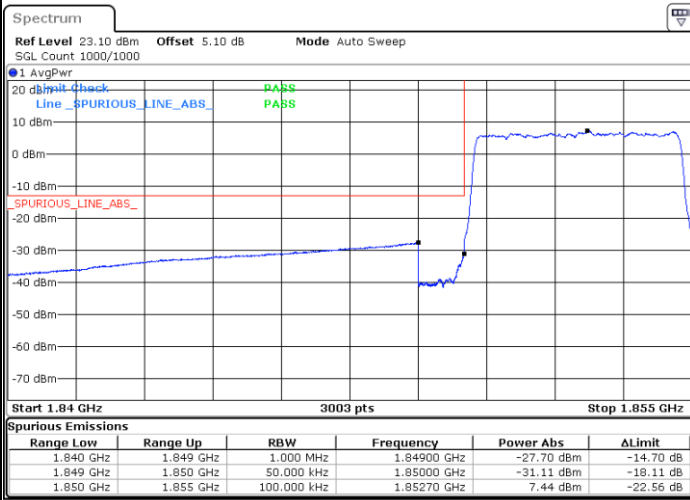


Date: 10.JAN.2021 11:56:20

Date: 10.JAN.2021 12:35:24

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 10.JAN.2021 11:54:28

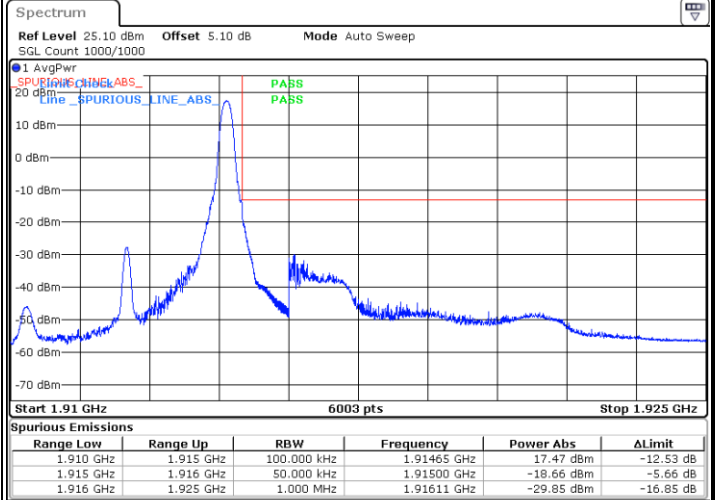
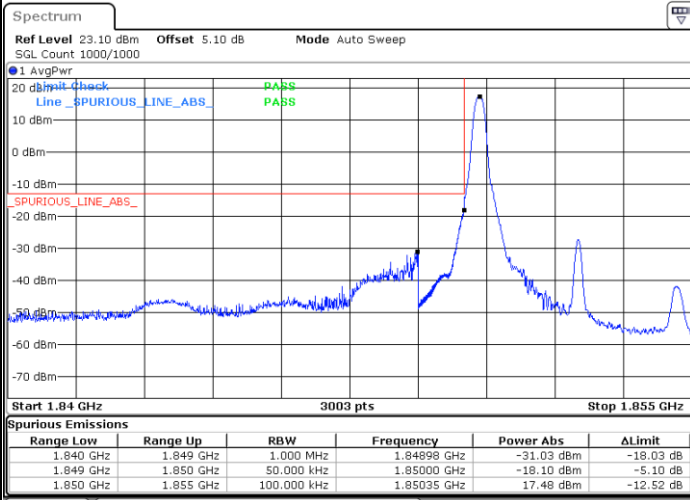
Date: 10.JAN.2021 12:33:19



FR1 n25 / 5MHz / DFT-S OFDM / 256QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

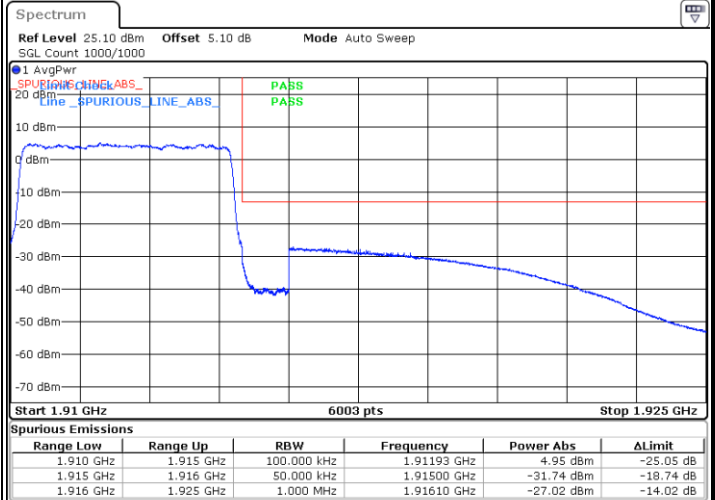
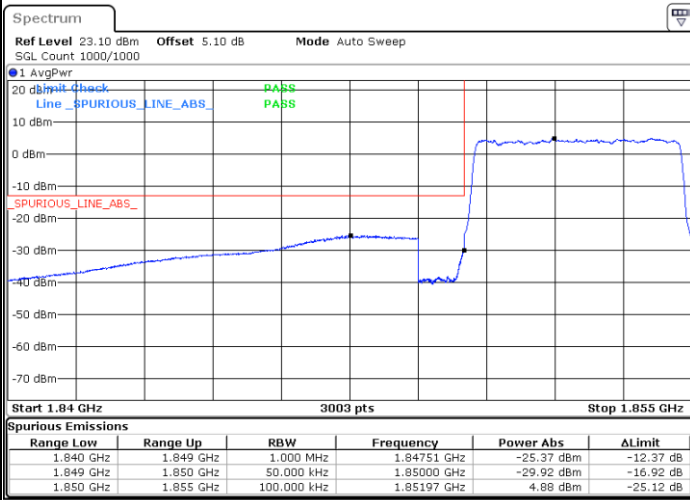


Date: 10.JAN.2021 12:09:59

Date: 10.JAN.2021 12:45:30

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 10.JAN.2021 12:11:49

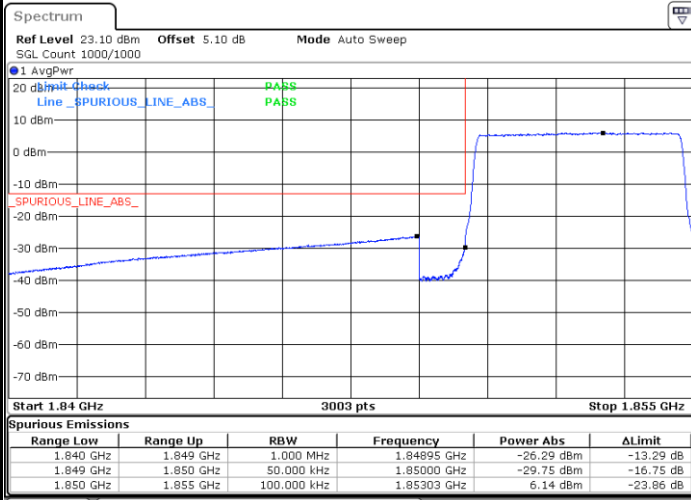
Date: 10.JAN.2021 12:47:23



FR1 n25 / 5MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 10.JAN.2021 12:13:56

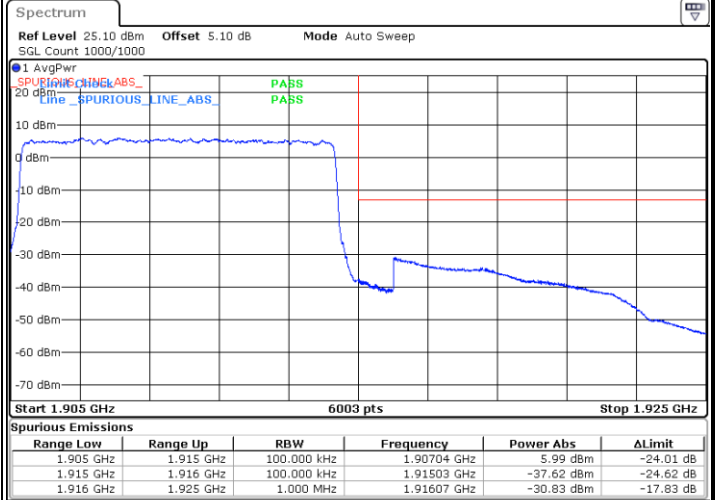
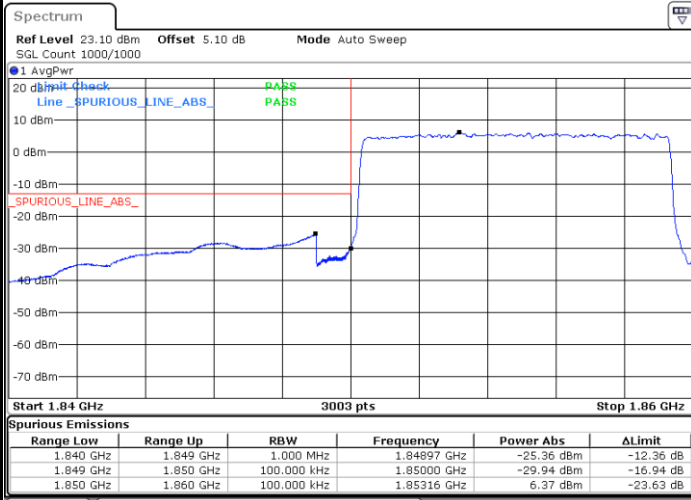
Date: 10.JAN.2021 12:23:03



FR1 n25 / 10MHz / DFT-s-OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 10.JAN.2021 12:53:39

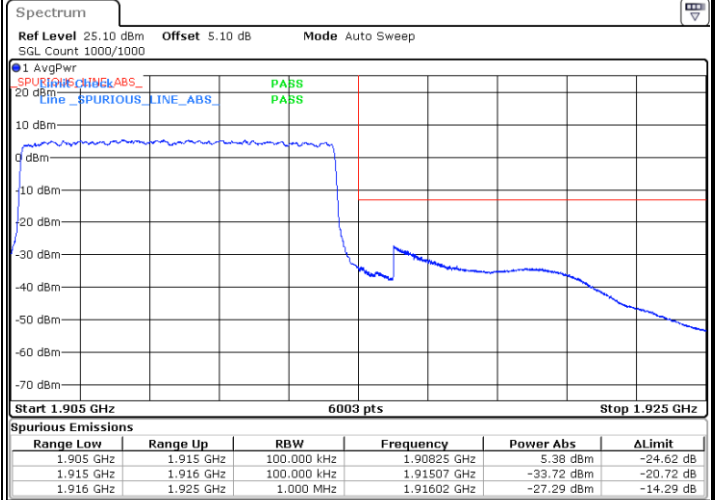
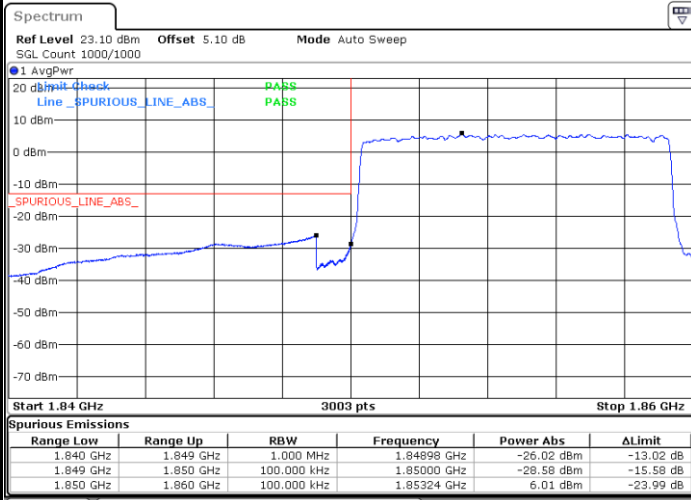
Date: 10.JAN.2021 12:59:27



FR1 n25 / 10MHz / DFT-s-OFDM / QPSK / Full RB

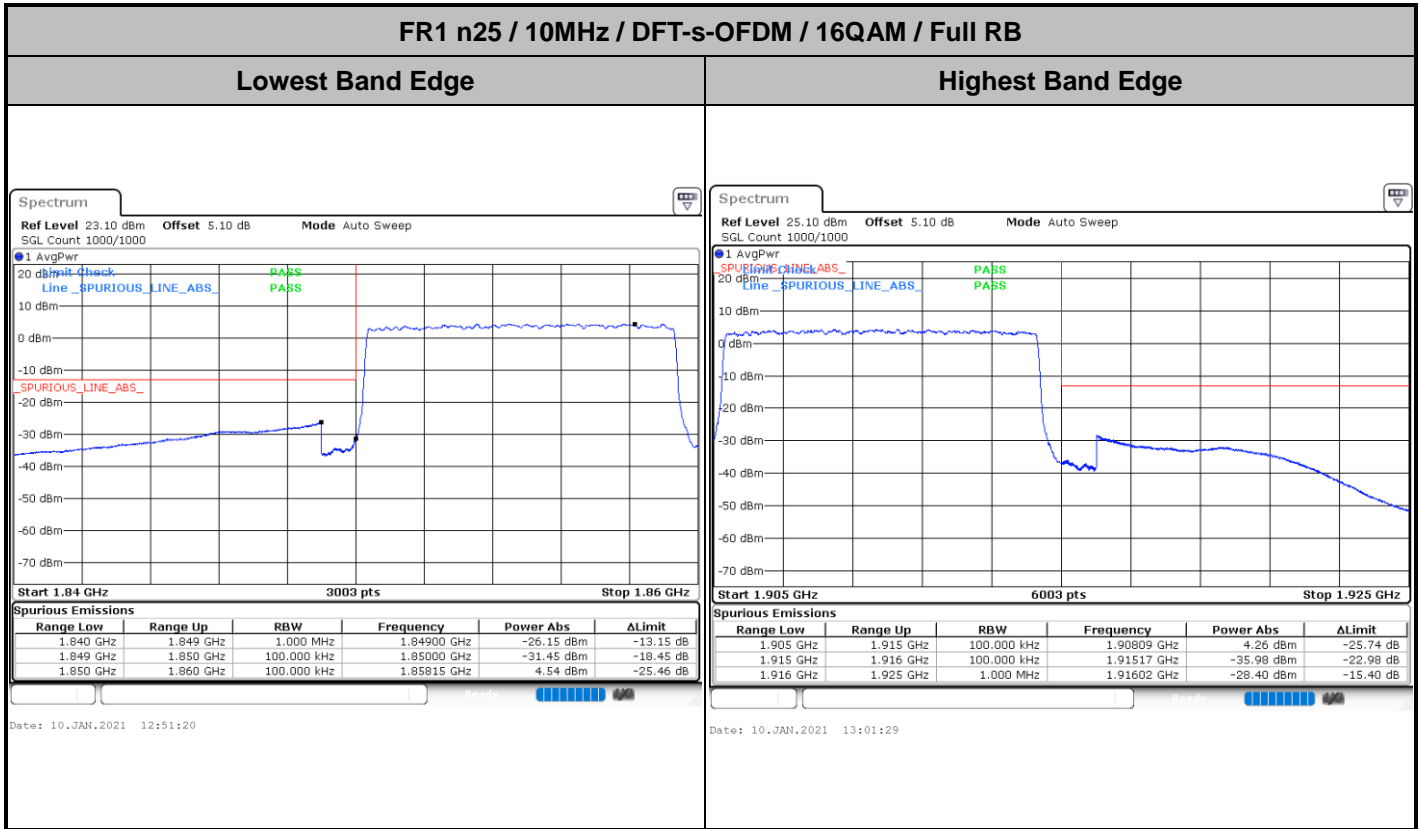
Lowest Band Edge

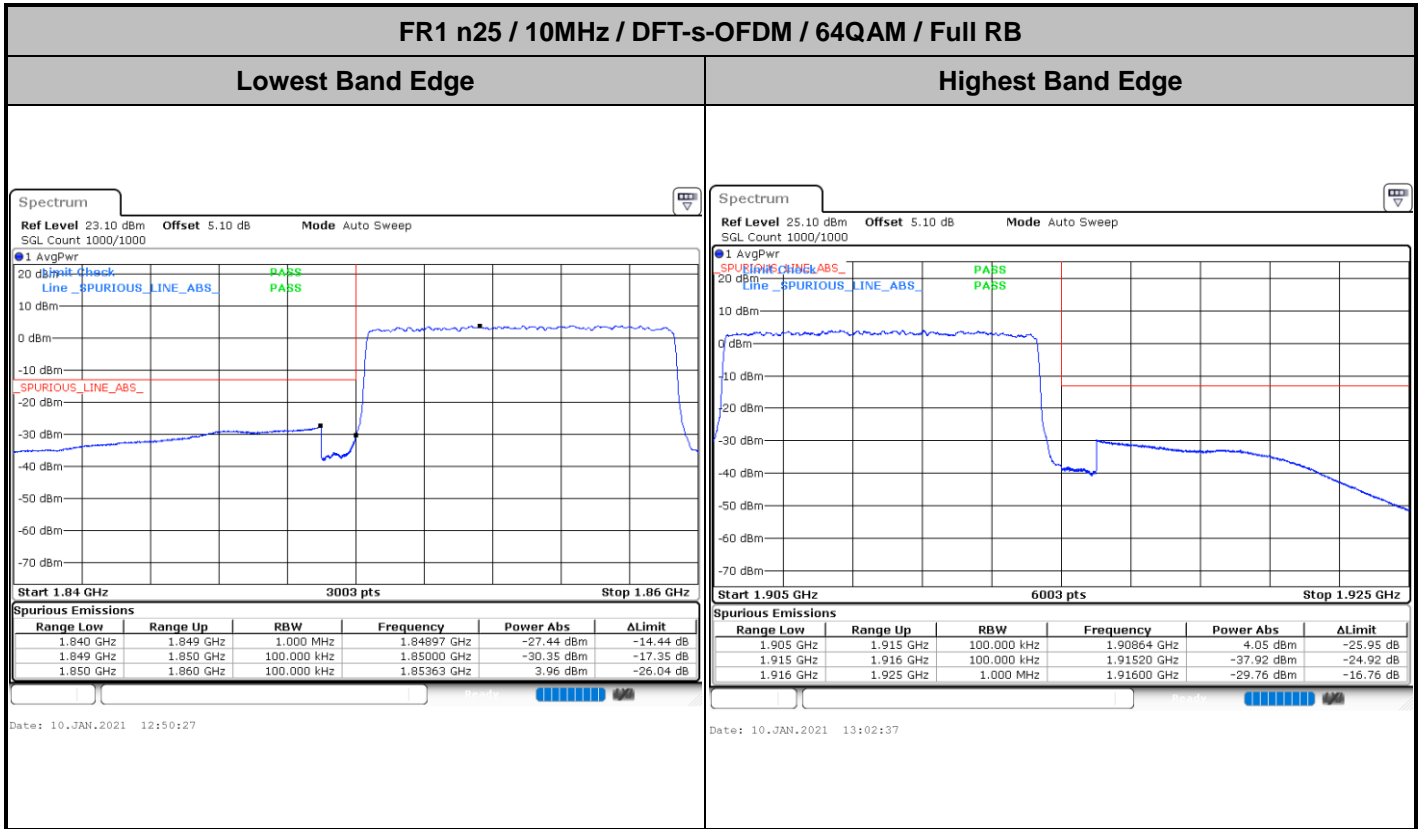
Highest Band Edge



Date: 10.JAN.2021 12:52:22

Date: 10.JAN.2021 13:00:22



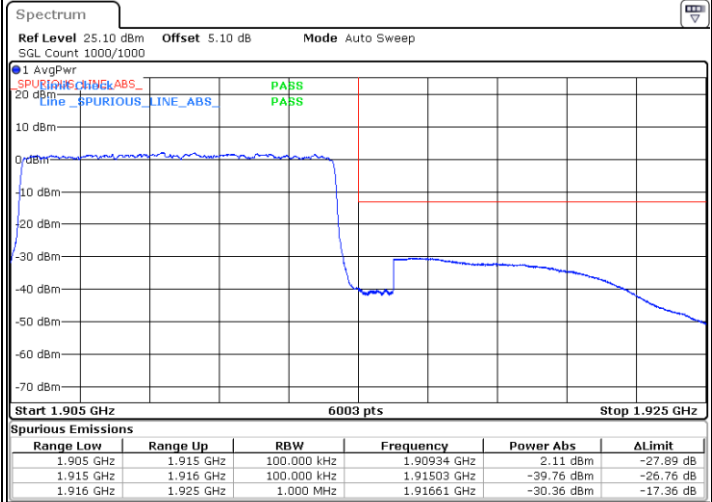
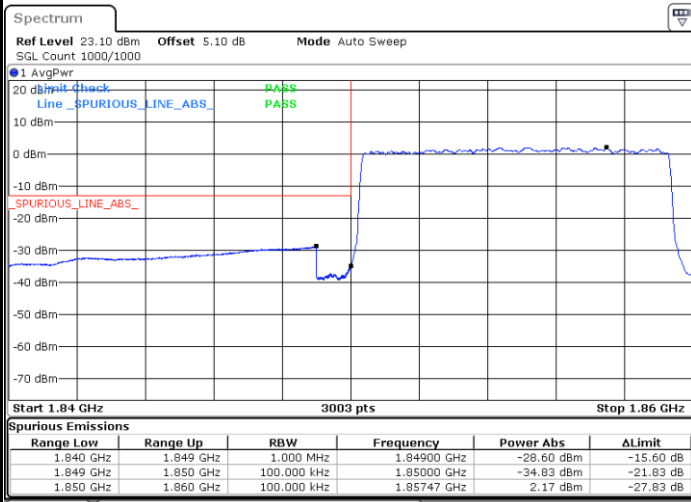




FR1 n25 / 10MHz / DFT-s-OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 10.JAN.2021 12:49:34

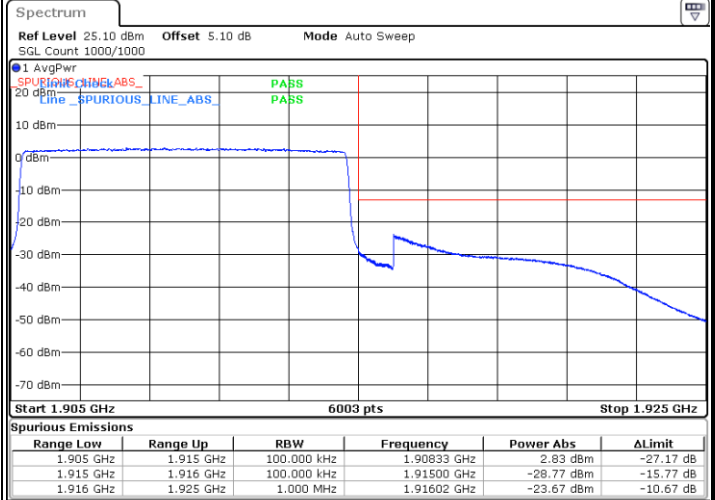
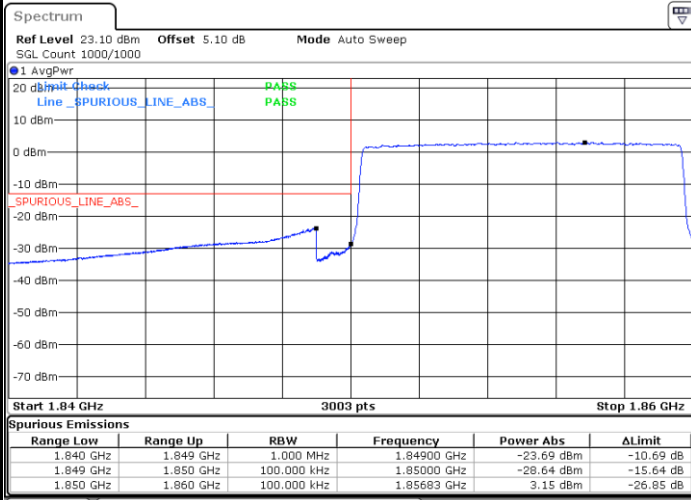
Date: 10.JAN.2021 13:03:46



FR1 n25 / 10MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 10.JAN.2021 12:54:41

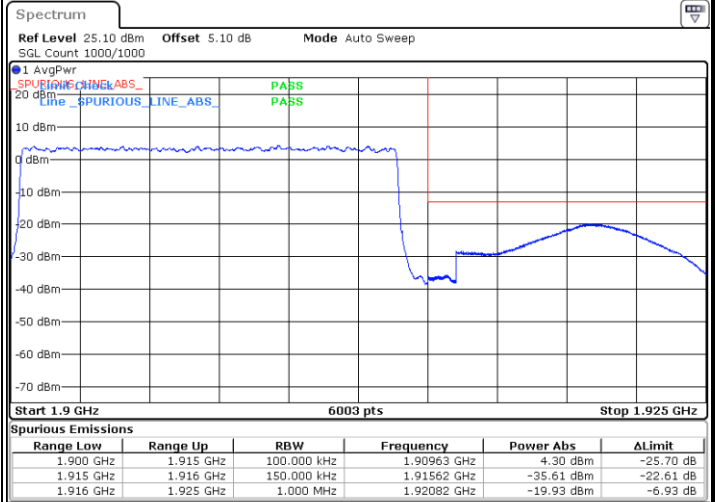
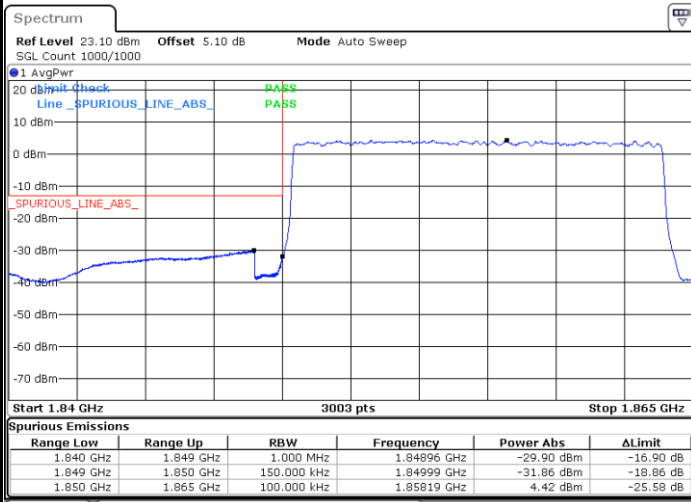
Date: 10.JAN.2021 13:05:26



FR1 n25 / 15MHz / DFT-s-OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 10.JAN.2021 13:12:14

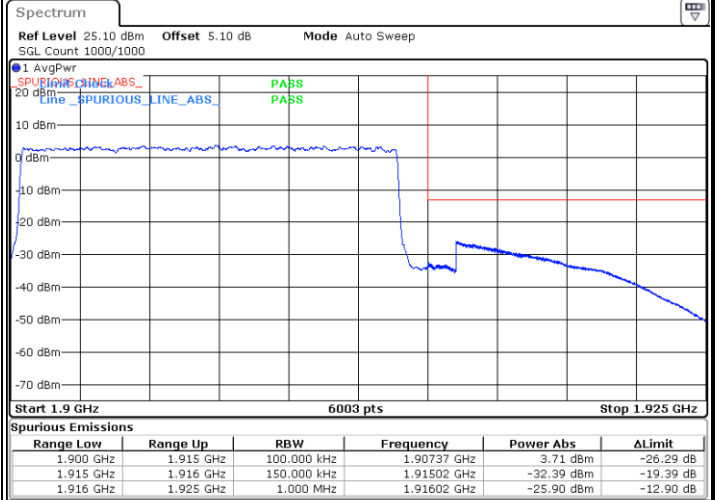
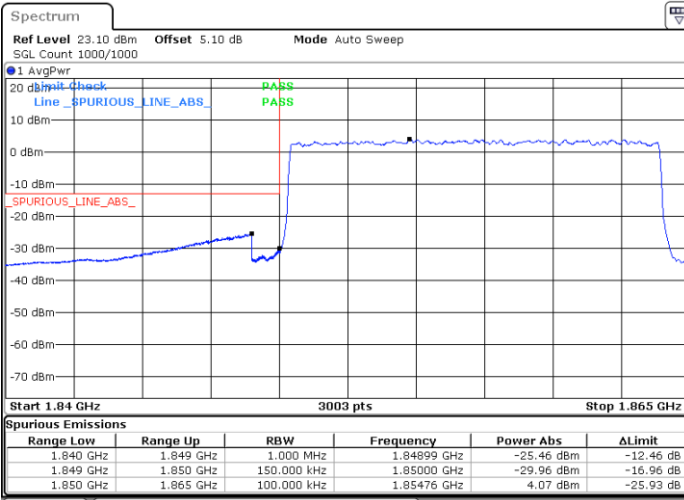
Date: 10.JAN.2021 13:20:42



FR1 n25 / 15MHz / DFT-s-OFDM / QPSK / Full RB

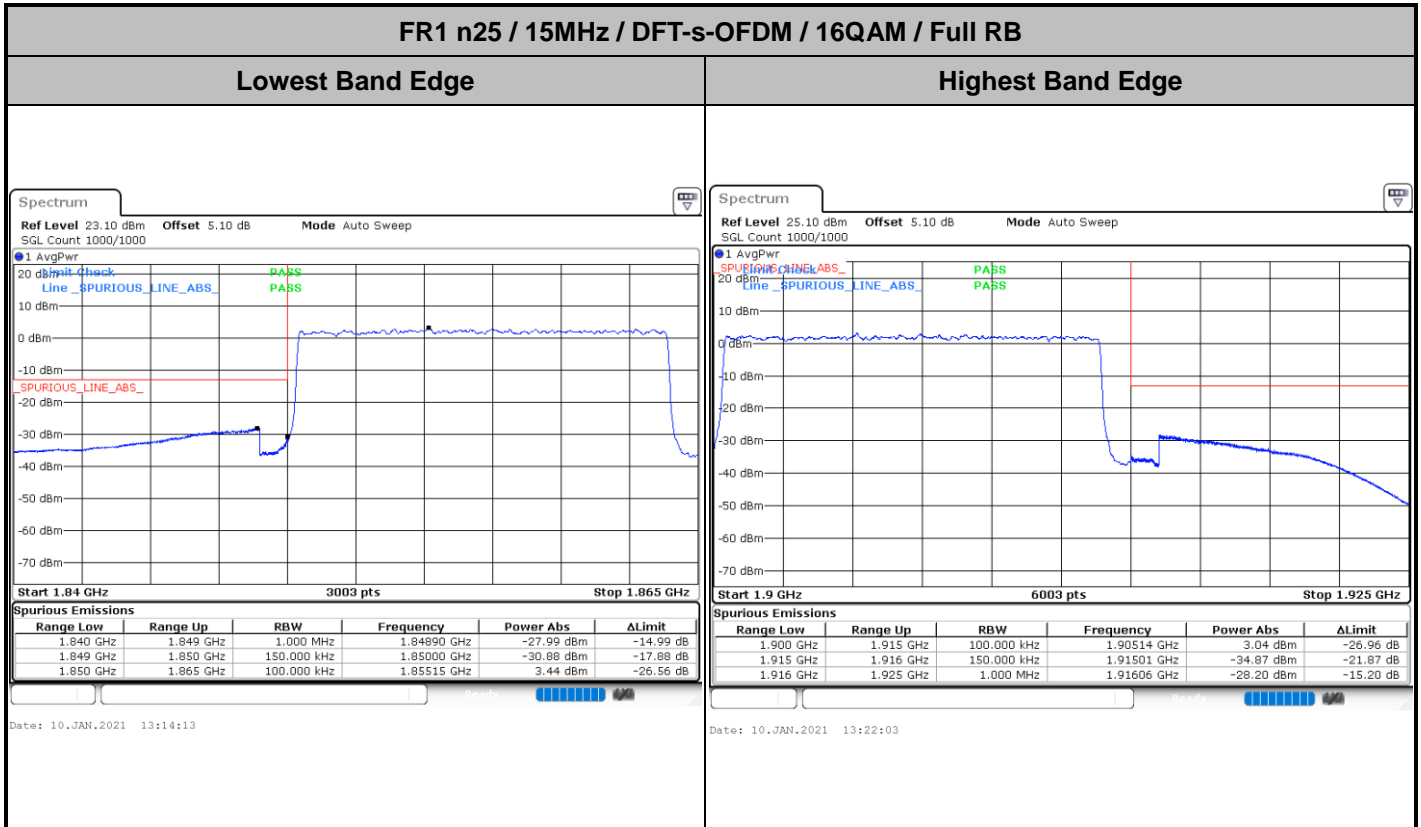
Lowest Band Edge

Highest Band Edge



Date: 10.JAN.2021 13:13:17

Date: 10.JAN.2021 13:21:22

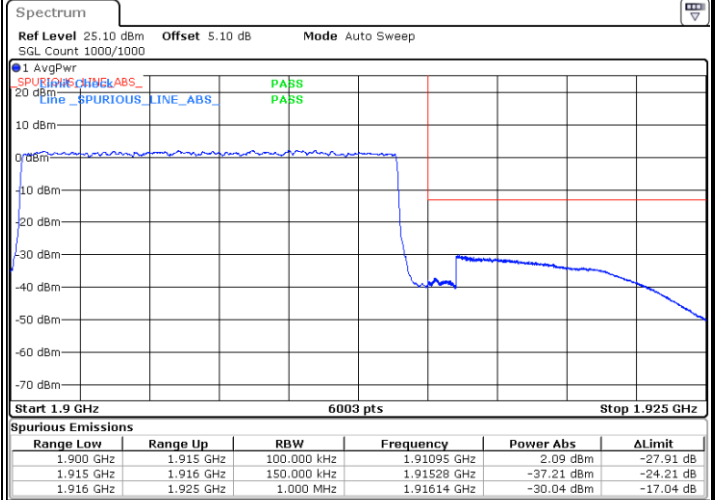
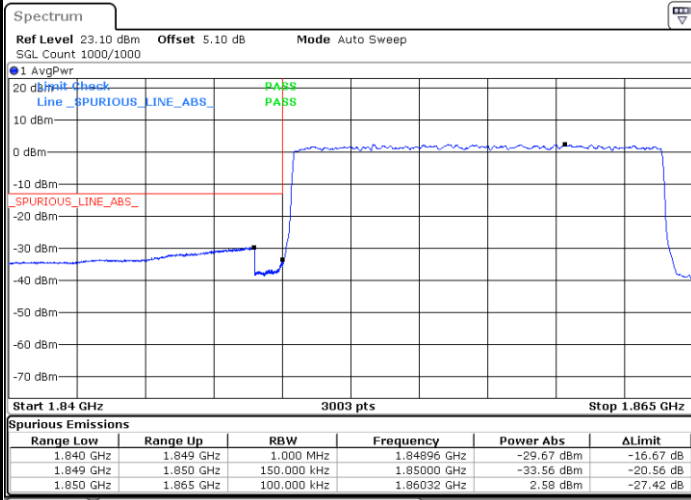




FR1 n25 / 15MHz / DFT-s-OFDM / 64QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 10.JAN.2021 13:15:15

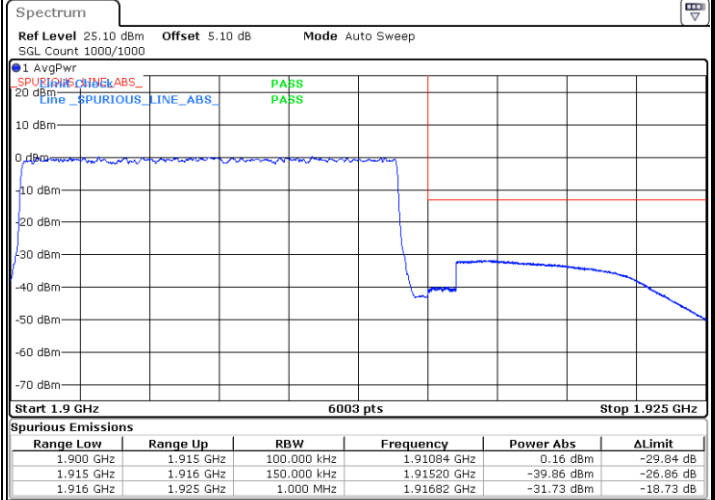
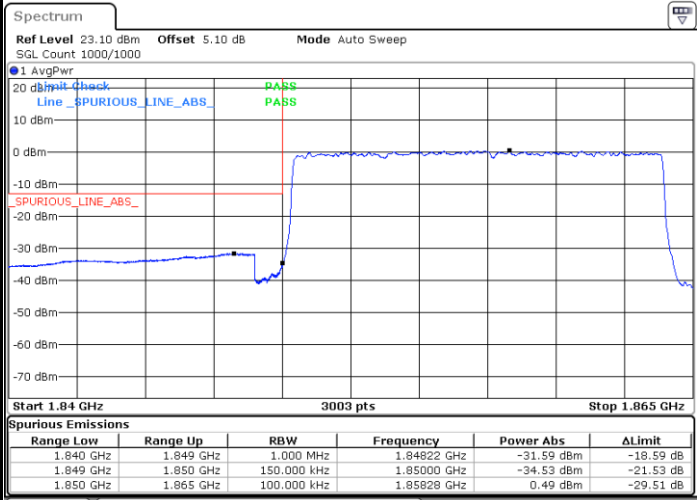
Date: 10.JAN.2021 13:22:44



FR1 n25 / 15MHz / DFT-s-OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 10.JAN.2021 13:16:12

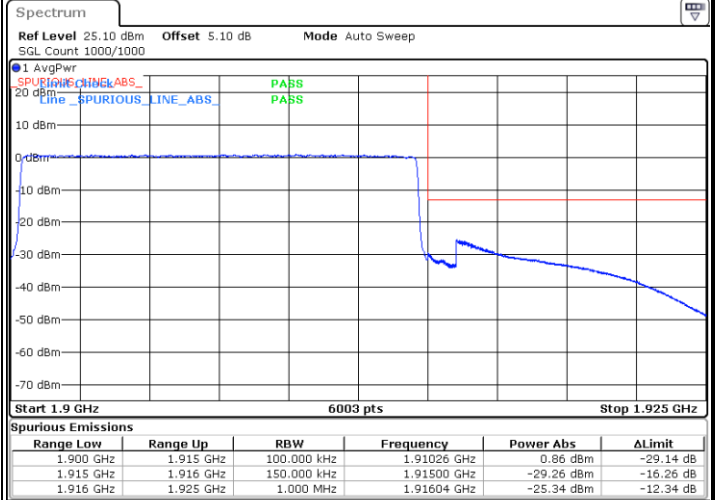
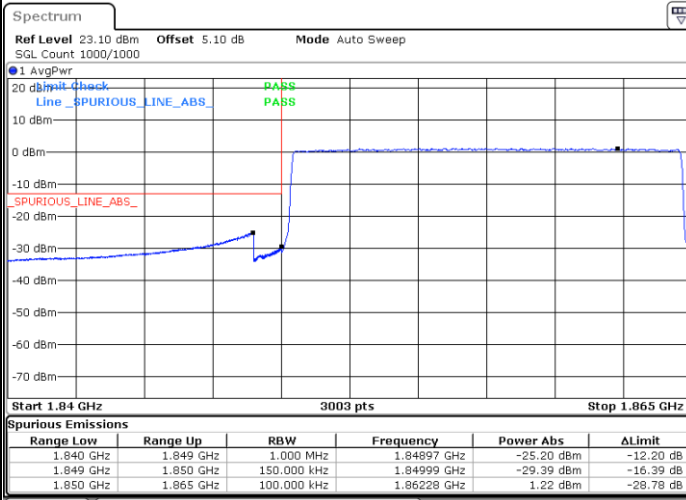
Date: 10.JAN.2021 13:23:30



FR1 n25 / 15MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 10.JAN.2021 13:11:27

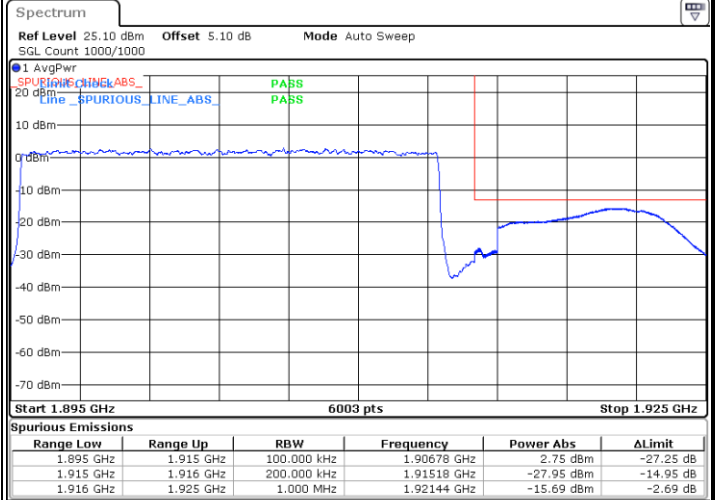
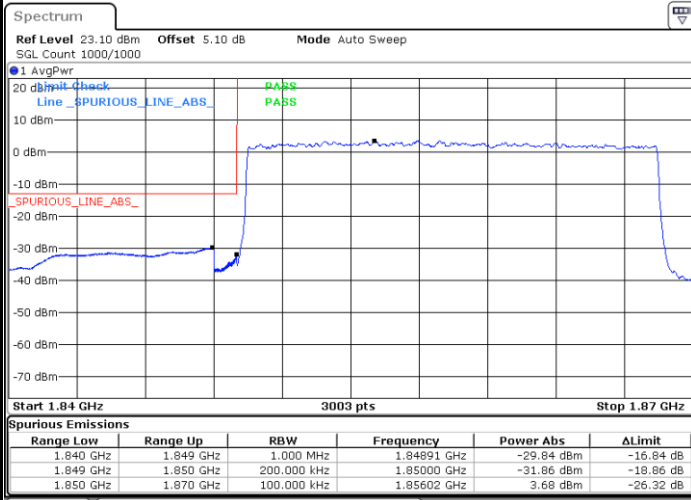
Date: 10.JAN.2021 13:25:12



FR1 n25 / 20MHz / DFT-s-OFDM / PI/2 BPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 10.JAN.2021 13:28:36

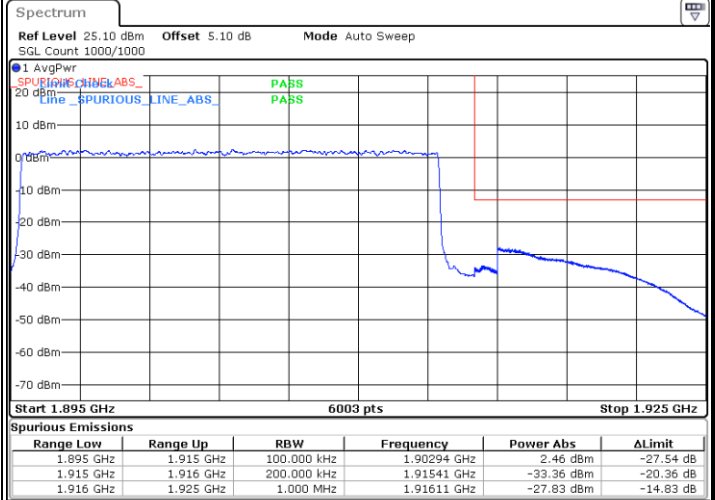
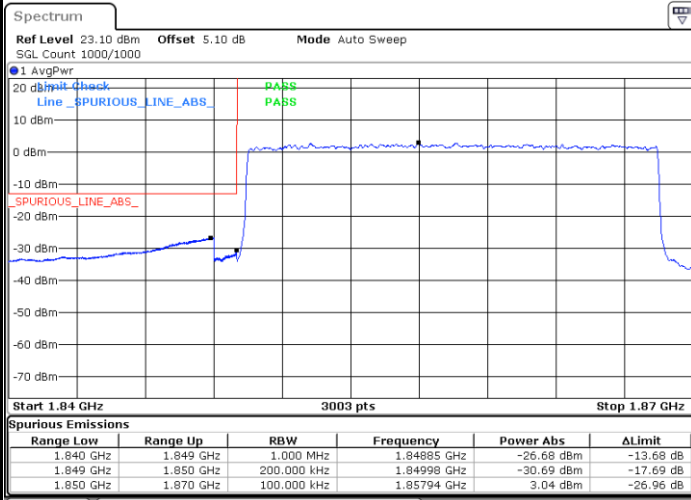
Date: 4.JAN.2021 13:10:35



FR1 n25 / 20MHz / DFT-s-OFDM / QPSK / Full RB

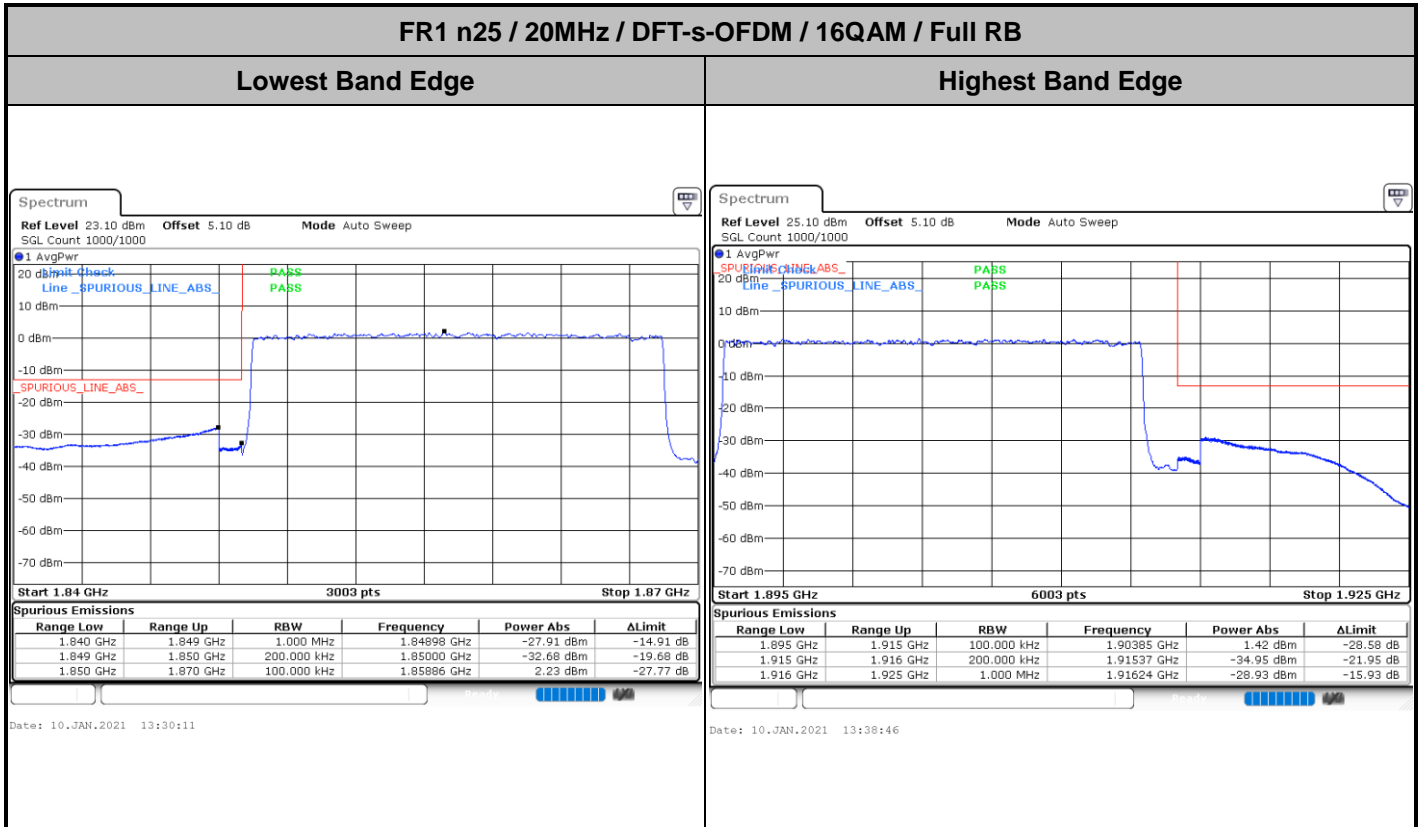
Lowest Band Edge

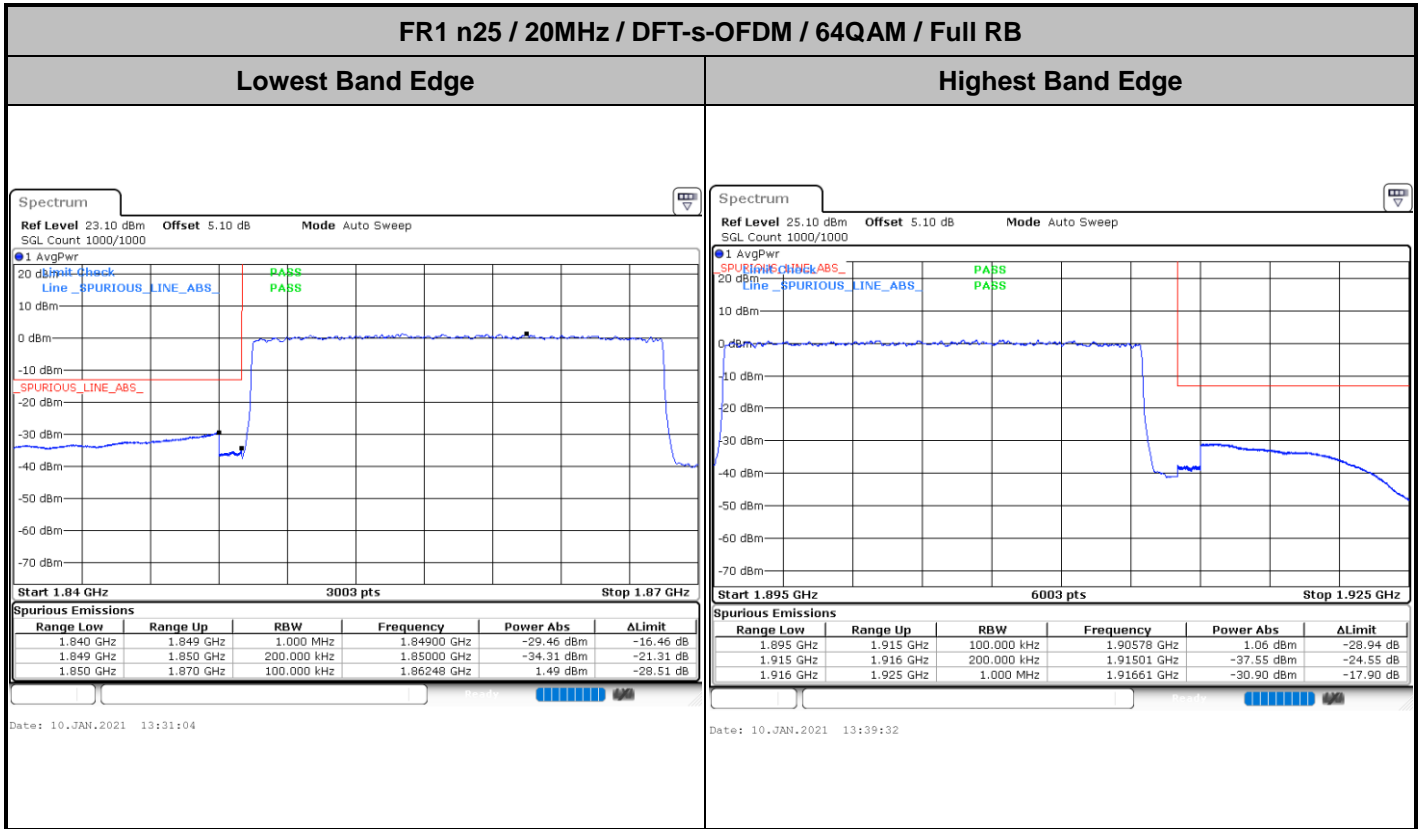
Highest Band Edge



Date: 10.JAN.2021 13:29:13

Date: 10.JAN.2021 13:38:04



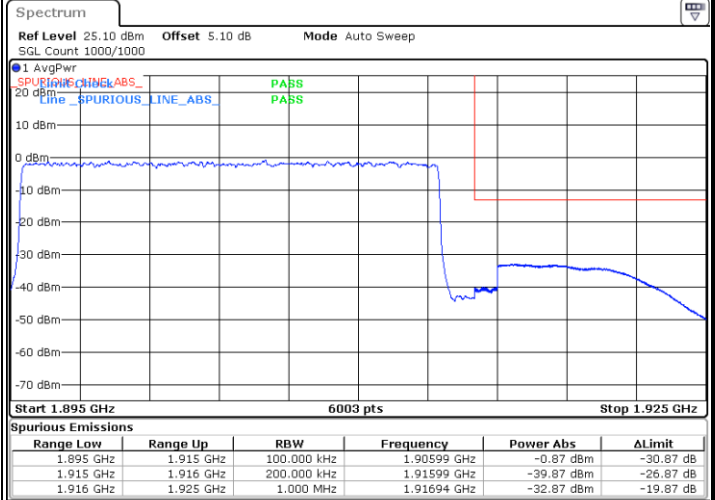
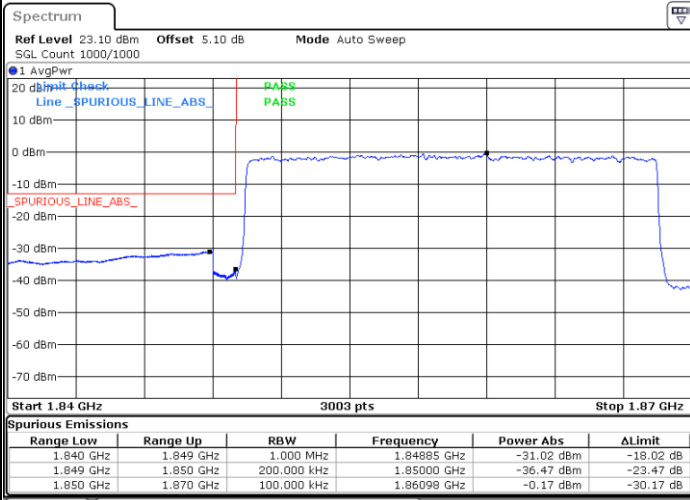




FR1 n25 / 20MHz / DFT-s-OFDM / 256QAM / Full RB

Lowest Band Edge

Highest Band Edge



Date: 10.JAN.2021 13:32:04

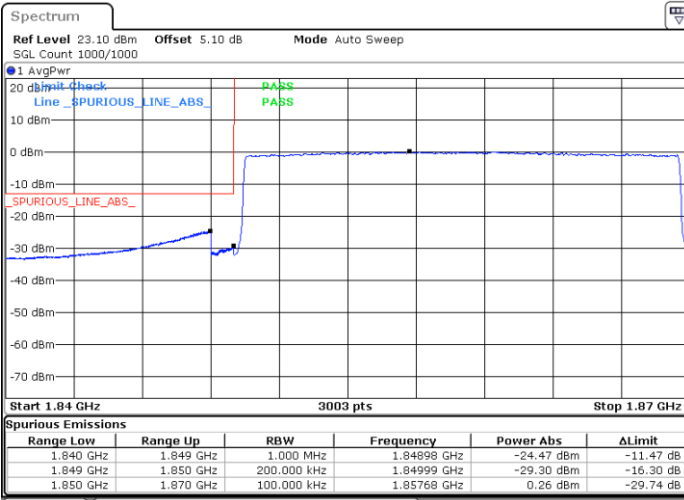
Date: 10.JAN.2021 13:40:28



FR1 n25 / 20MHz / CP OFDM / QPSK / Full RB

Lowest Band Edge

Highest Band Edge



Date: 10.JAN.2021 13:33:10

Date: 10.JAN.2021 13:41:14

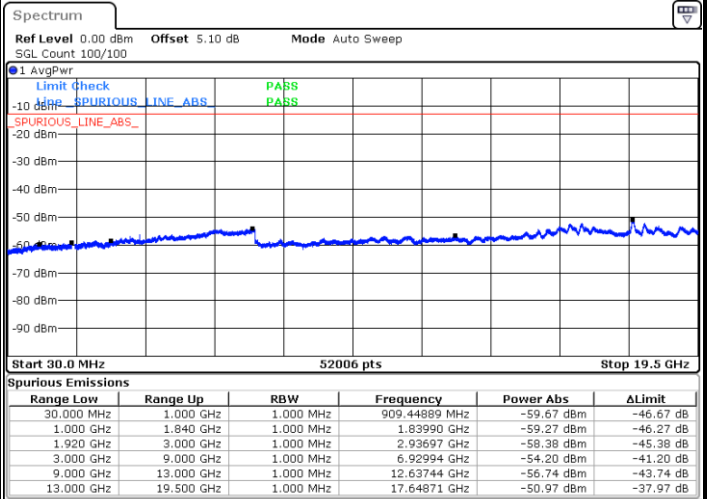
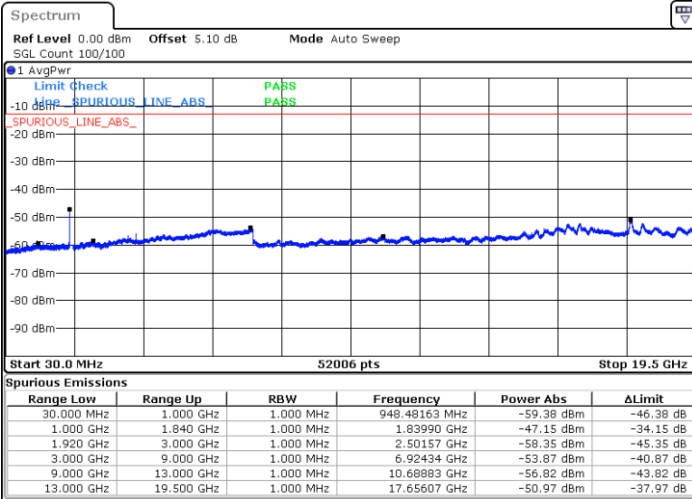


Conducted Spurious Emission

FR1 n25 / 5MHz / DFT-S OFDM / QPSK / 1RB1

Lowest Channel

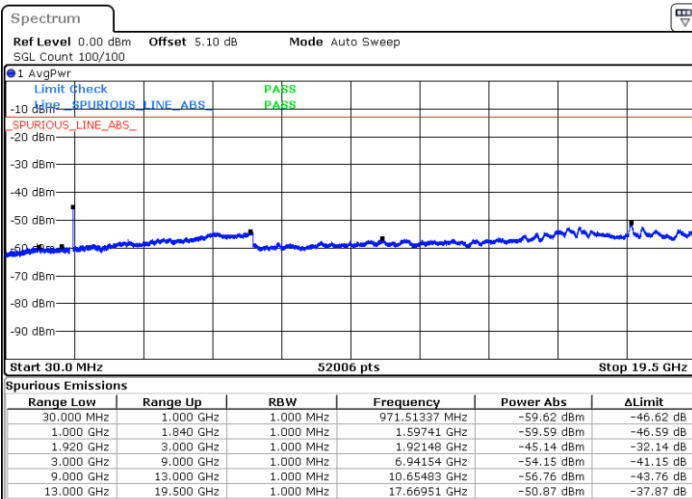
Middle Channel



Date: 10.JAN.2021 12:16:52

Date: 10.JAN.2021 12:17:46

Highest Channel



Date: 10.JAN.2021 12:42:37



Frequency Stability

Test Conditions		FR1 n25 (BPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0008	PASS
40	Normal Voltage	0.0081	
30	Normal Voltage	0.0004	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0008	
0	Normal Voltage	0.0019	
-10	Normal Voltage	0.0057	
-20	Normal Voltage	0.0028	
-30	Normal Voltage	0.0014	
20	Maximum Voltage	0.0025	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0057	

Note:

1. Normal Voltage =3.85 V. ; Battery End Point (BEP) =3.60 V. ; Maximum Voltage =4.45 V.
2. The frequency fundamental emissions stay within the authorized frequency block.



FR1 n66

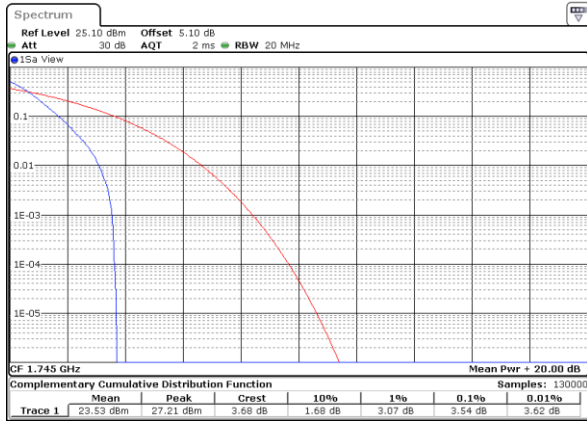
Peak-to-Average Ratio

Mode	FR1 n66 / 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	3.54	4.29	5.42	5.88	PASS
Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Middle CH	6.67				PASS



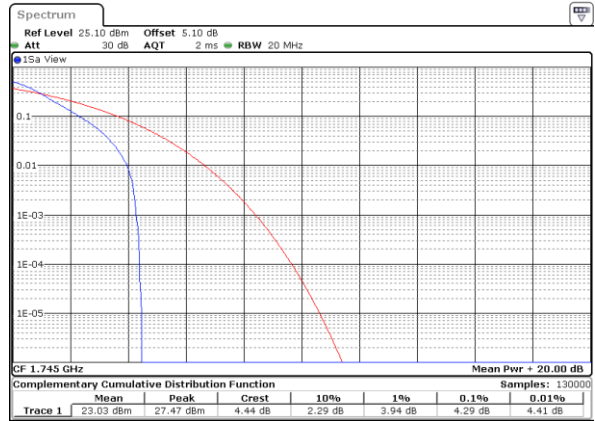
FR1 n66 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



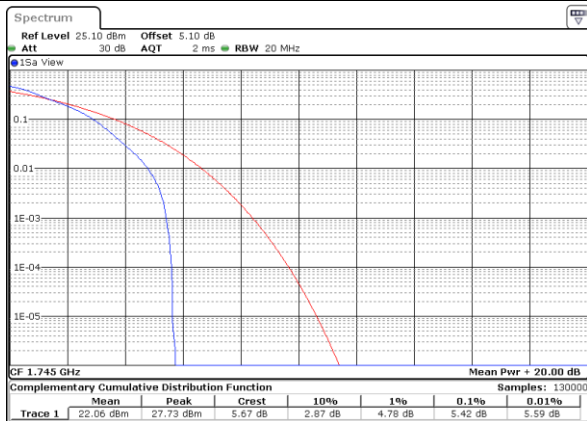
Date: 25.DEC.2020 18:19:17

QPSK



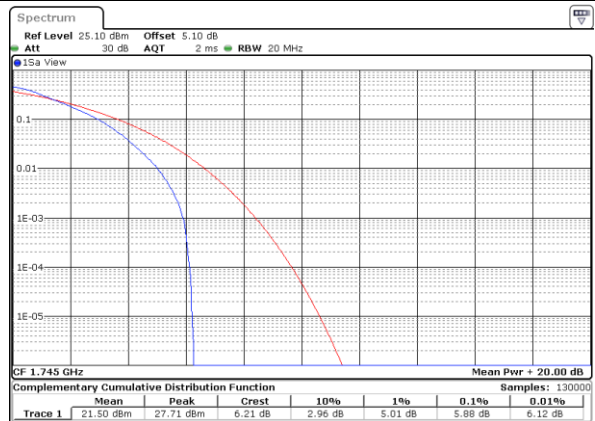
Date: 25.DEC.2020 18:19:46

16QAM



Date: 25.DEC.2020 18:20:38

64QAM



Date: 25.DEC.2020 18:21:29

256QAM



Date: 25.DEC.2020 18:22:41



26dB Bandwidth

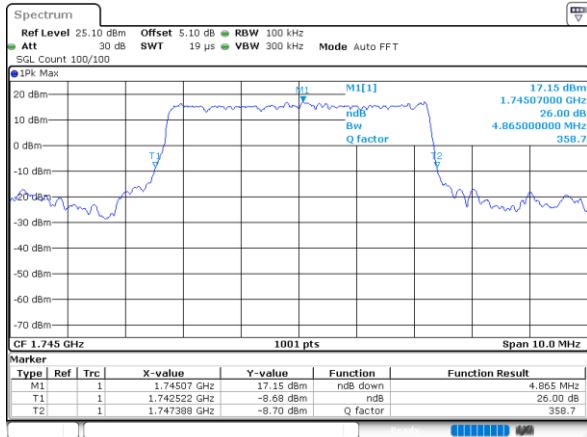
Mode	FR1 n66 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.87		9.43		14.21		18.82	

Mode	FR1 n66 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	5.04	4.88	9.81	9.73	14.90	14.99	19.90	19.82
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.97	4.93	9.83	9.87	15.20	14.93	19.94	19.74



FR1 n66 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

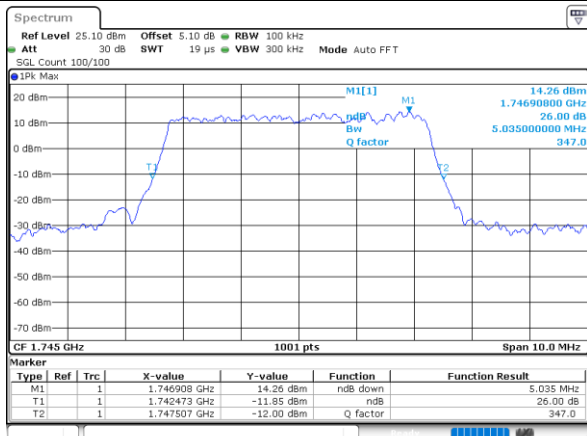
PI/2 BPSK



Date: 25. DEC. 2020 16:18:44

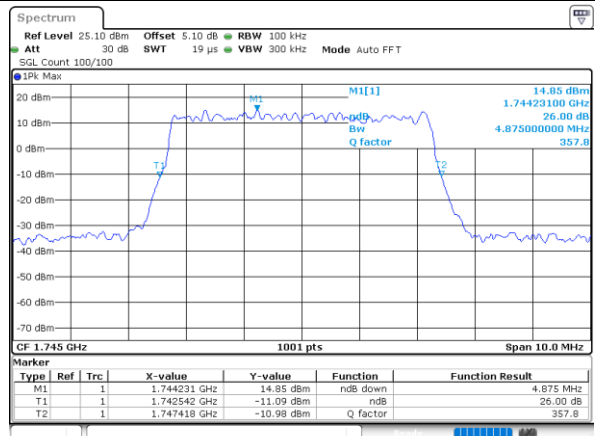
FR1 n66 / 5MHz / CP OFDM / Middle Channel / Full RB

QPSK



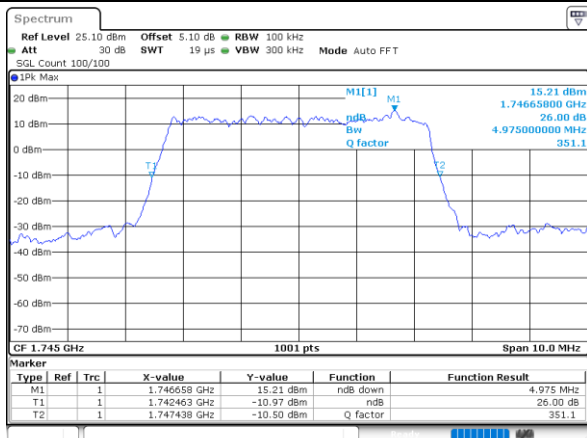
Date: 25. DEC. 2020 16:17:21

16QAM



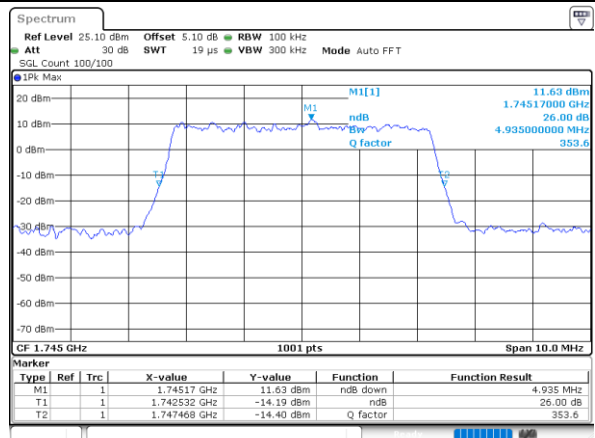
Date: 25. DEC. 2020 16:17:42

64QAM



Date: 25. DEC. 2020 16:17:59

256QAM

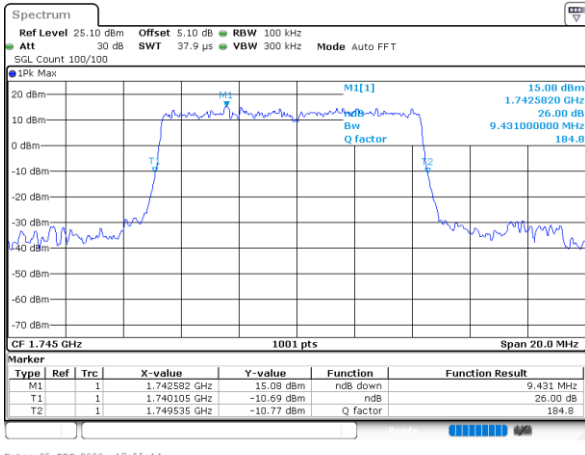


Date: 25. DEC. 2020 16:18:17



FR1 n66 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

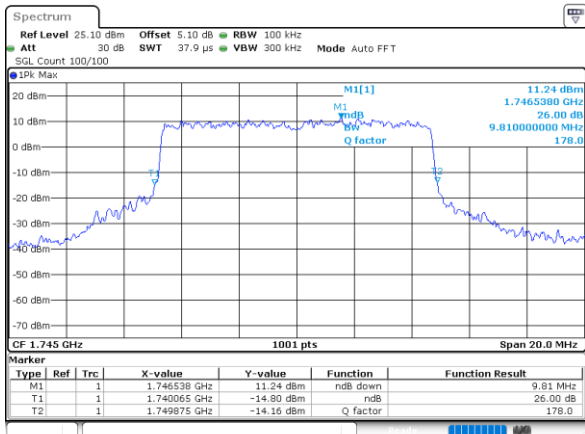
PI/2 BPSK



Date: 25. DEC. 2020 17:55:14

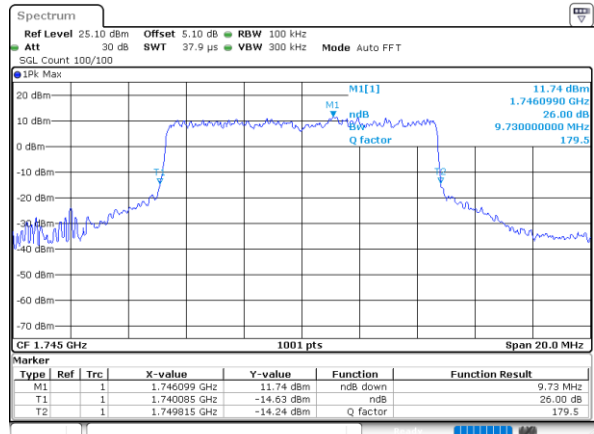
FR1 n66 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



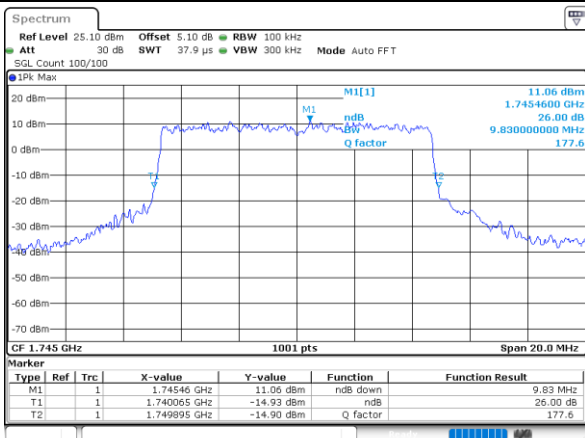
Date: 25. DEC. 2020 17:54:43

16QAM



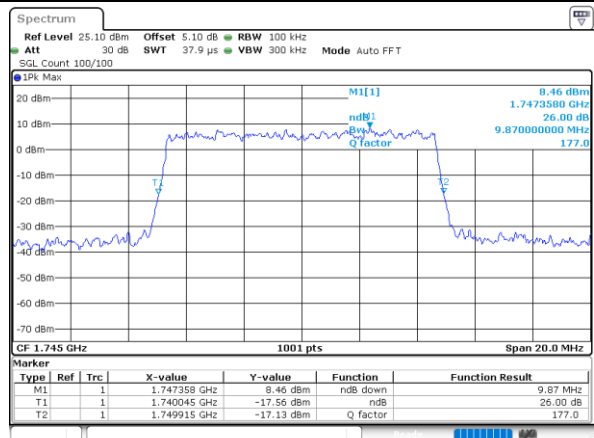
Date: 25. DEC. 2020 17:54:05

64QAM



Date: 25. DEC. 2020 17:53:20

256QAM

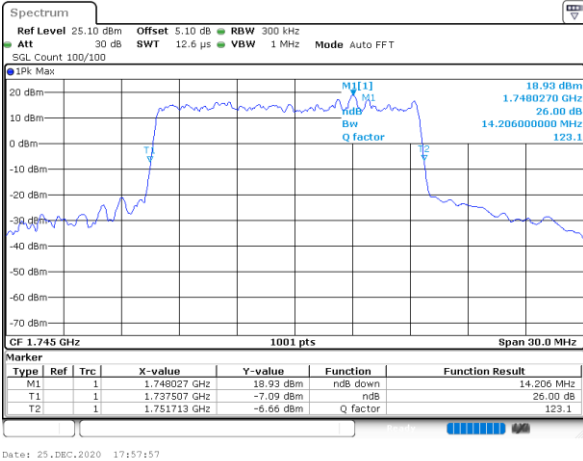


Date: 25. DEC. 2020 17:53:01



FR1 n66 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

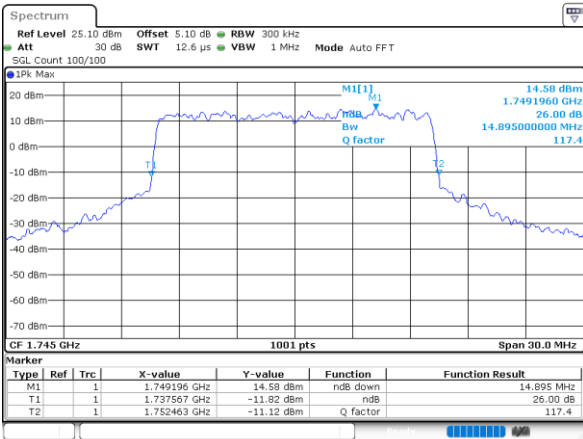
PI/2 BPSK



Date: 25. DEC. 2020 17:57:57

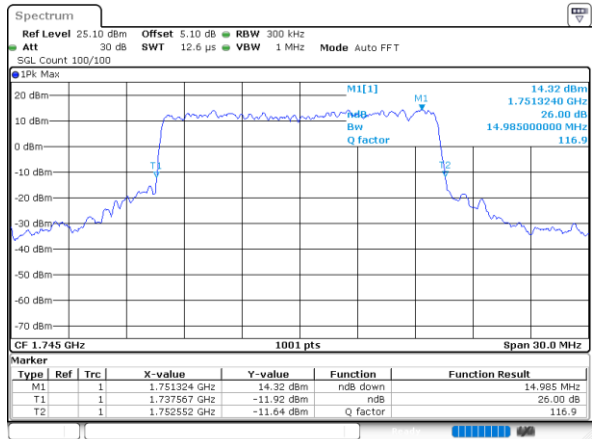
FR1 n66 / 15MHz / CP OFDM / Middle Channel / Full RB

QPSK



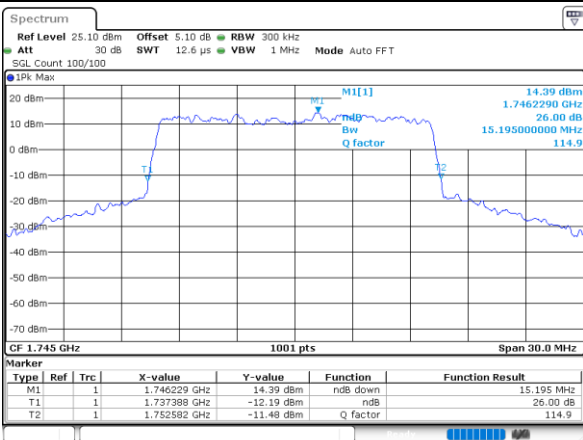
Date: 25. DEC. 2020 17:58:30

16QAM



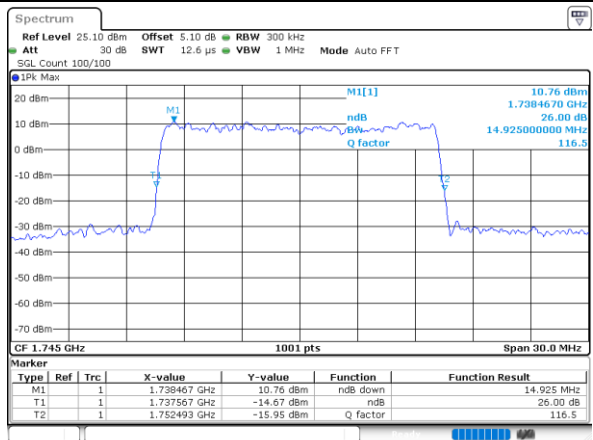
Date: 25. DEC. 2020 17:58:52

64QAM



Date: 25. DEC. 2020 17:59:15

256QAM

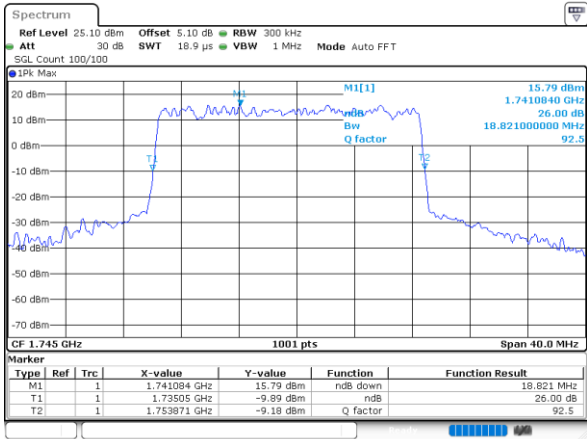


Date: 25. DEC. 2020 17:59:46



FR1 n66 / 20MHz / DFT-S OFDM / Middle Channel / Full RB

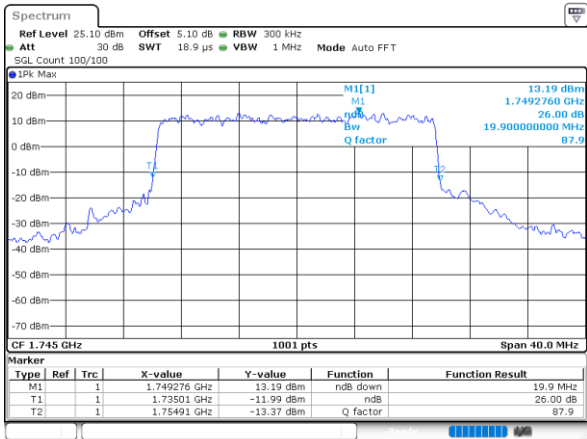
PI/2 BPSK



Date: 25, DEC, 2020 18:18:32

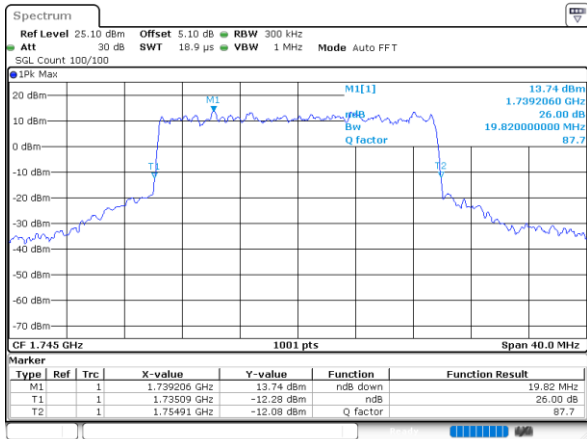
FR1 n66 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



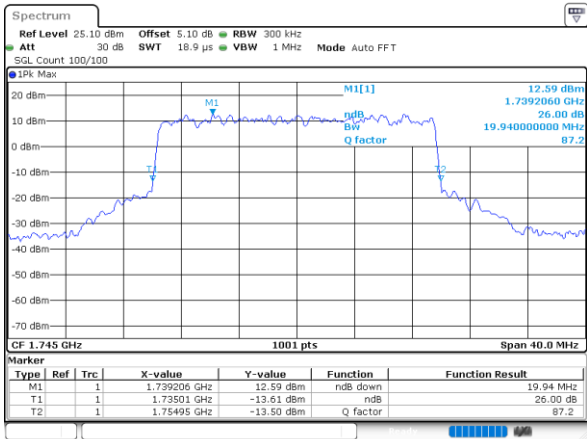
Date: 25, DEC, 2020 18:16:35

16QAM



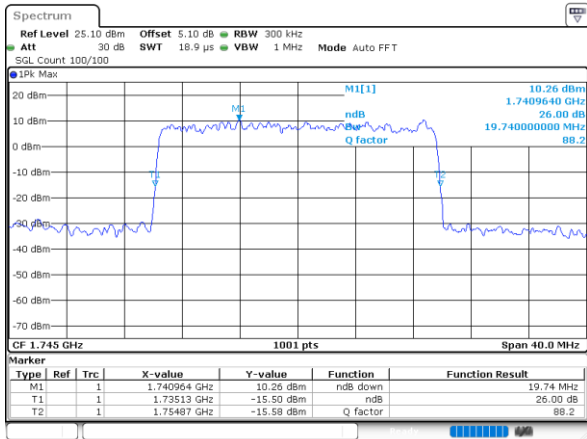
Date: 25, DEC, 2020 18:15:59

64QAM



Date: 25, DEC, 2020 18:05:12

256QAM



Date: 25, DEC, 2020 18:00:41



Occupied Bandwidth

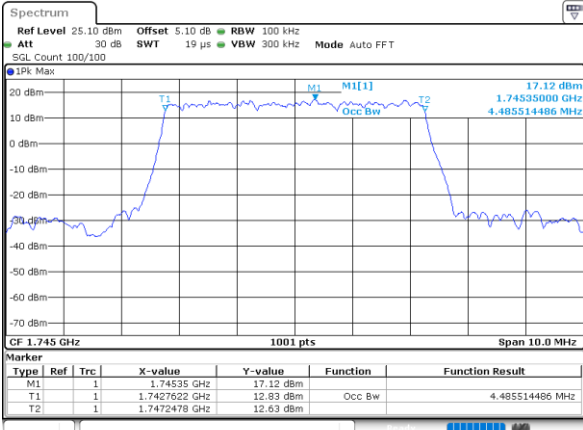
Mode	FR1 n66 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI/2 BPSK		PI/2 BPSK		PI/2 BPSK		PI/2 BPSK	
Middle CH	4.49		8.89		13.46		17.90	

Mode	FR1 n66 : 99%OBW (MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Middle CH	4.49	4.48	9.25	9.27	14.12	14.24	18.82	18.98
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Middle CH	4.49	4.48	9.25	9.29	14.24	14.09	18.98	18.86



FR1 n66 / 5MHz / DFT-S OFDM / Middle Channel / Full RB

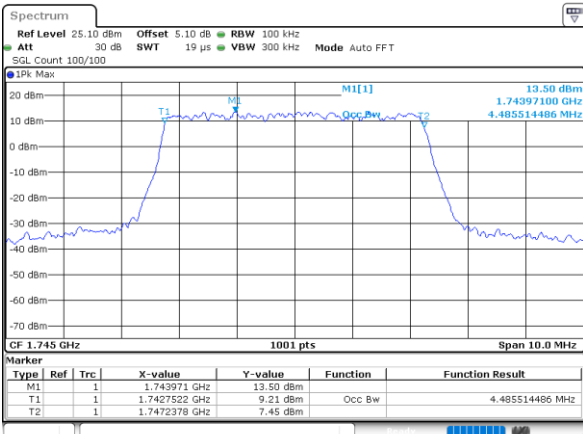
PI/2 BPSK



Date: 25. DEC. 2020 16:18:33

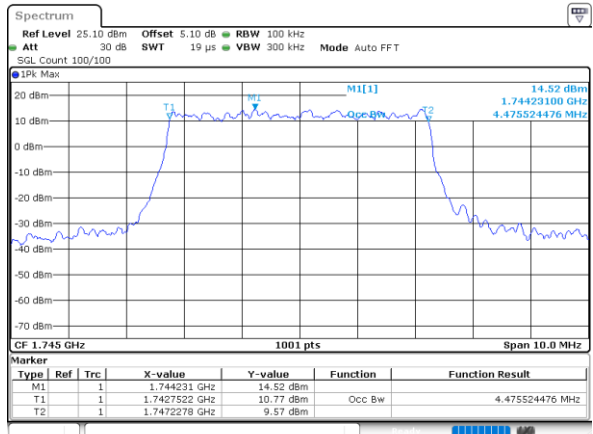
FR1 n66 / 5MHz / CP OFDM / Middle Channel / Full RB

QPSK



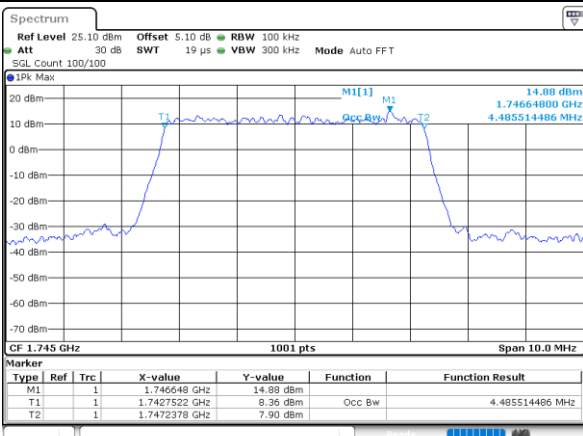
Date: 25. DEC. 2020 16:17:12

16QAM



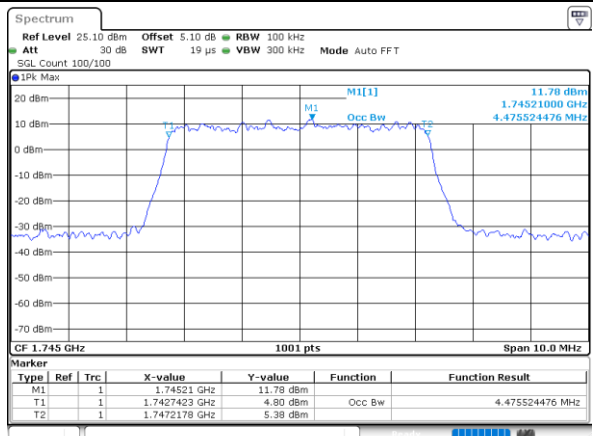
Date: 25. DEC. 2020 16:17:34

64QAM



Date: 25. DEC. 2020 16:17:52

256QAM



Date: 25. DEC. 2020 16:18:11