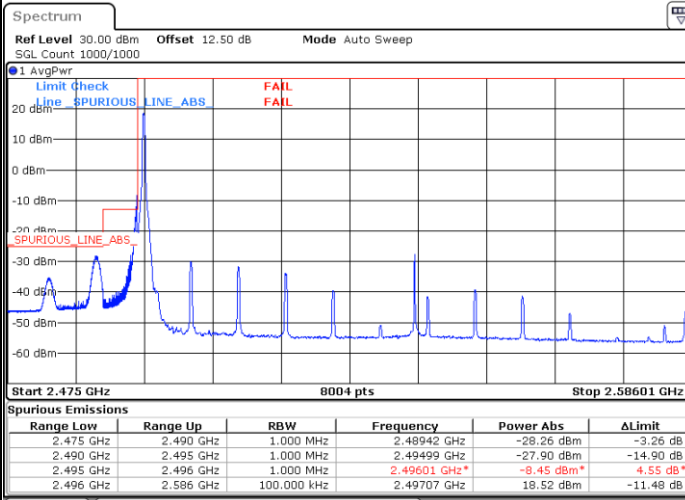




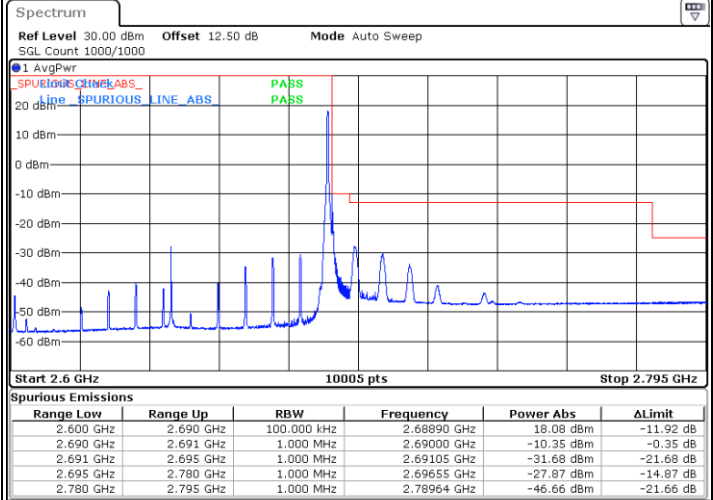
FR1 n41 / 90MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



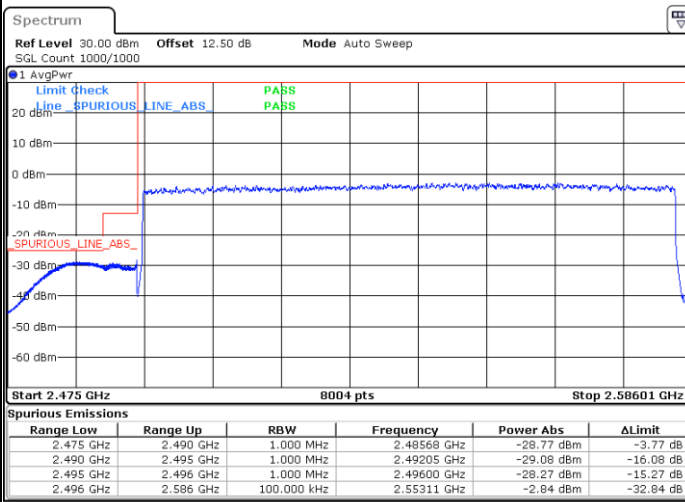
Date: 18.JUL.2020 22:02:23



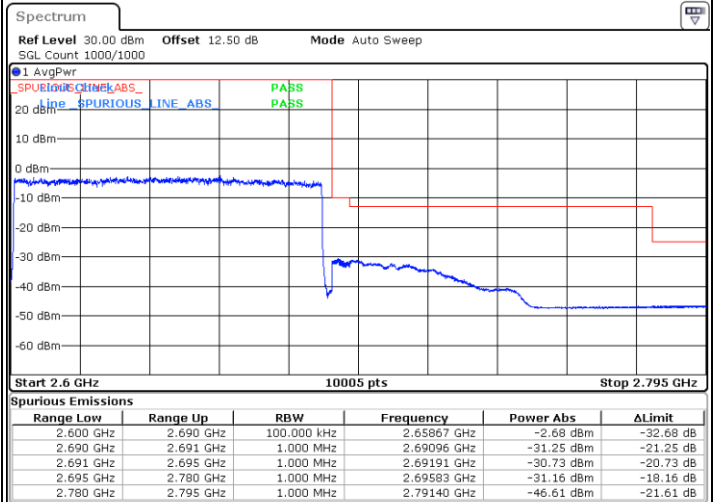
Date: 18.JUL.2020 20:46:34

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 18.JUL.2020 22:14:58



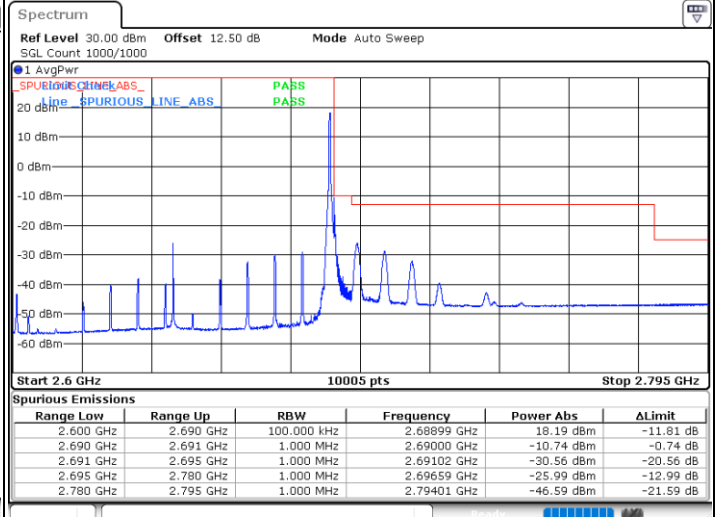
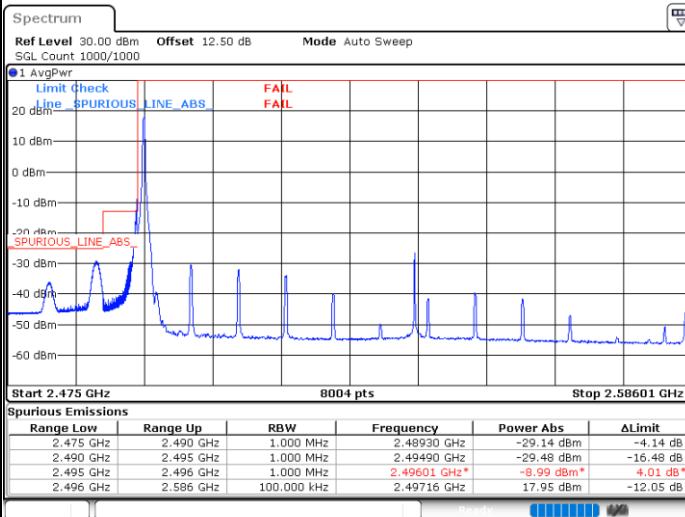
Date: 18.JUL.2020 20:35:23



FR1 n41 / 90MHz / DFT-S OFDM / 64QAM

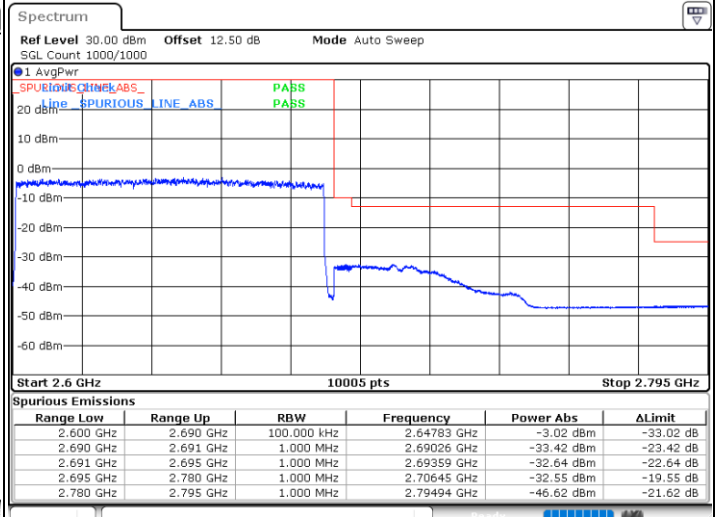
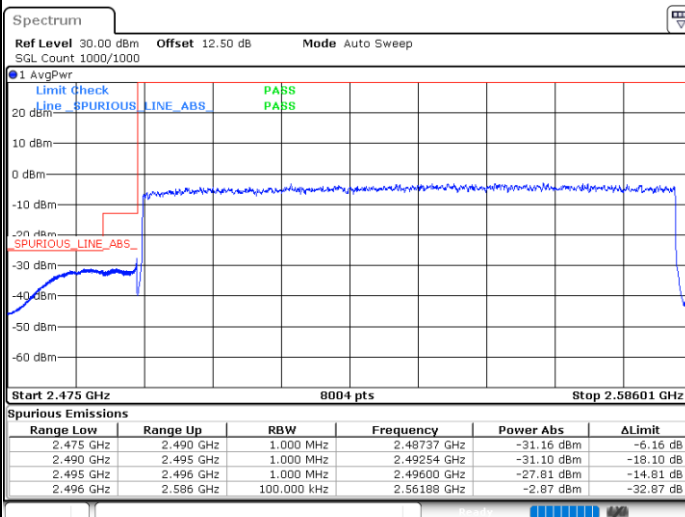
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

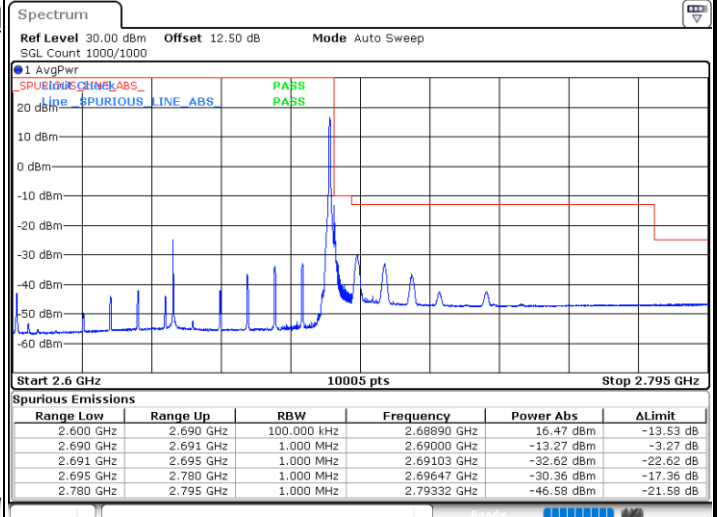
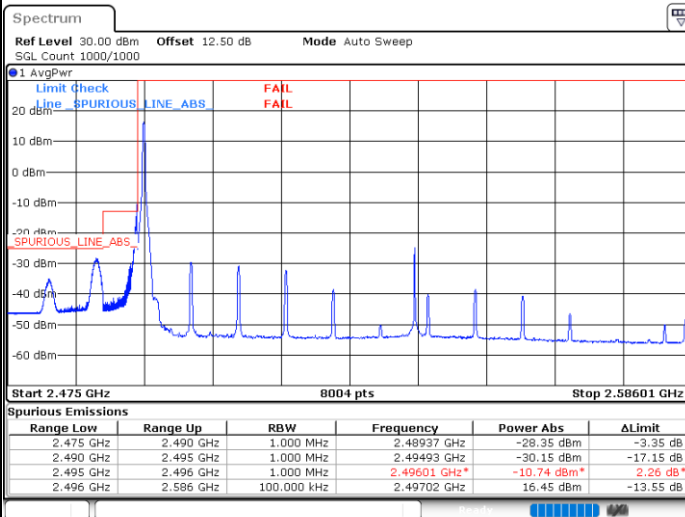




FR1 n41 / 90MHz / DFT-S OFDM / 256QAM

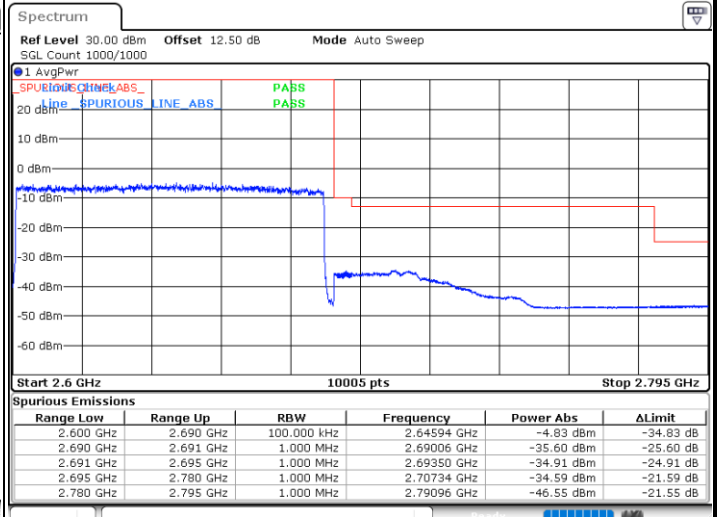
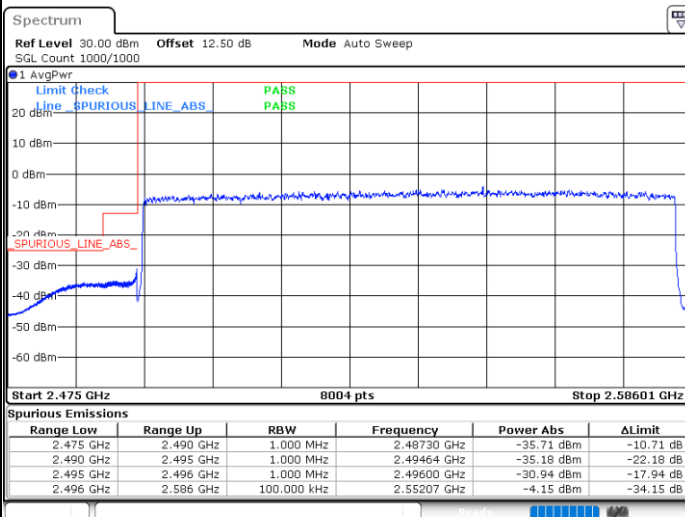
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

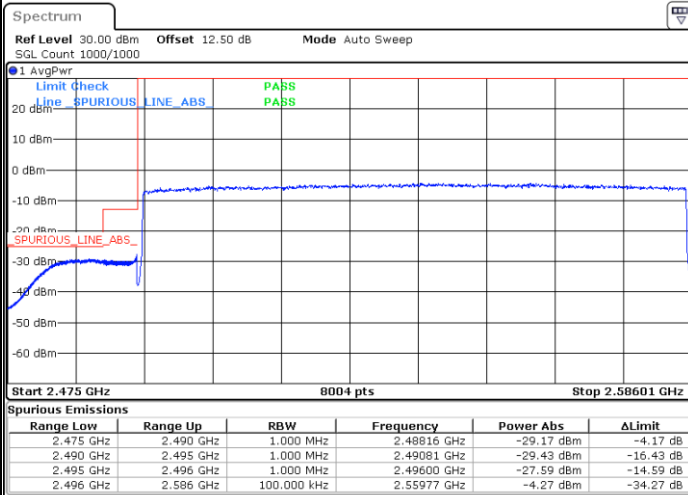




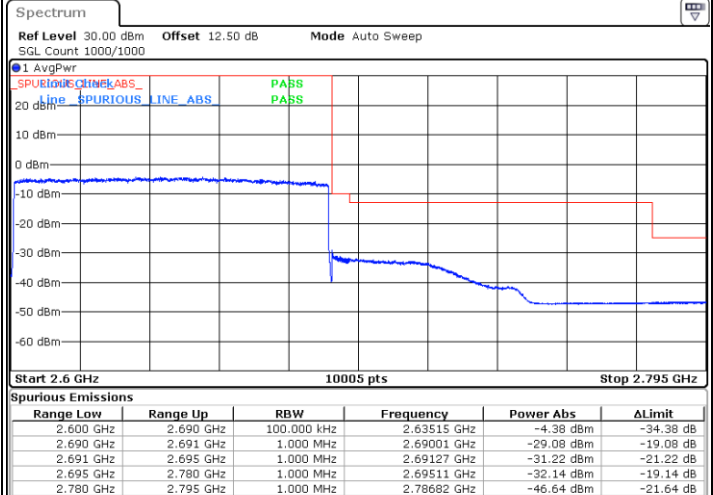
FR1 n41 / 90MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 18.JUL.2020 22:23:03



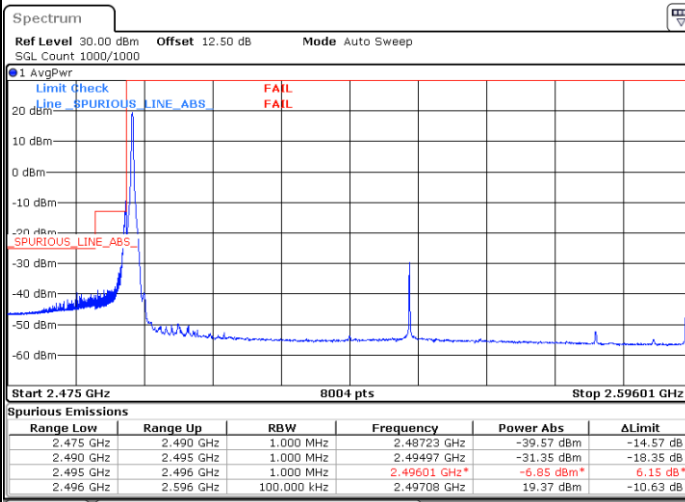
Date: 18.JUL.2020 20:25:50



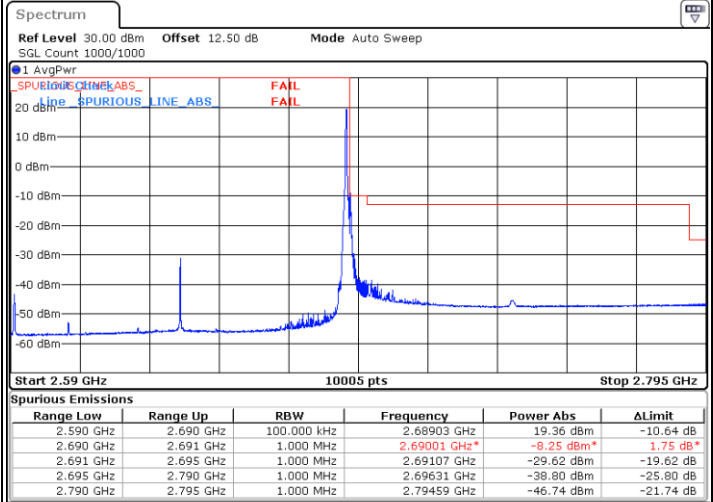
FR1 n41 / 100MHz / DFT-S OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



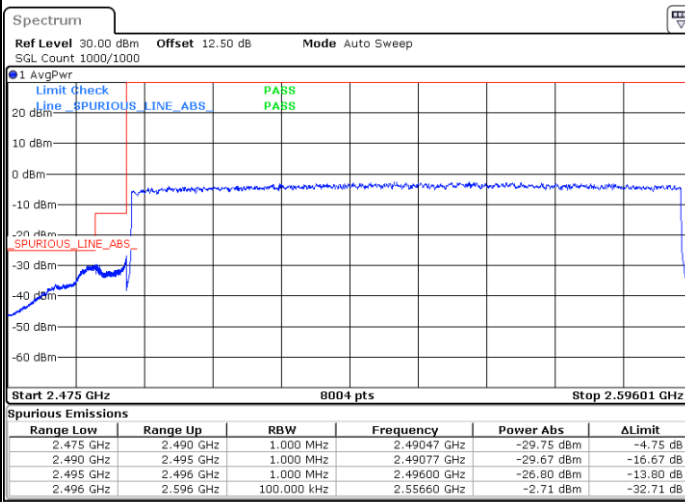
Date: 17.JUL.2020 16:47:53



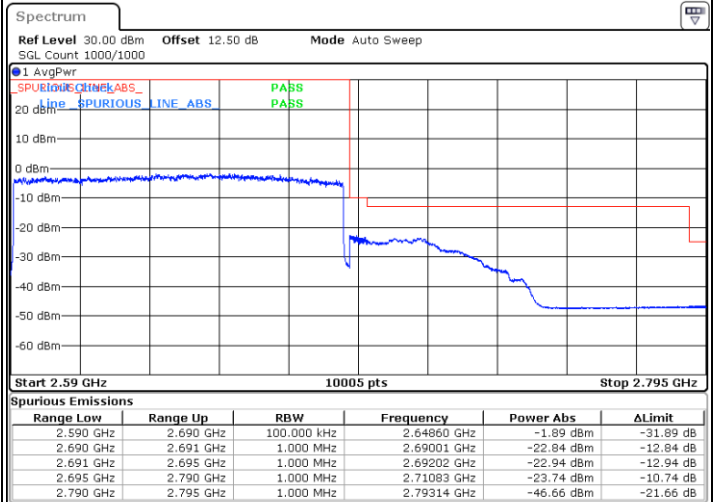
Date: 17.JUL.2020 19:19:01

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17.JUL.2020 16:42:12



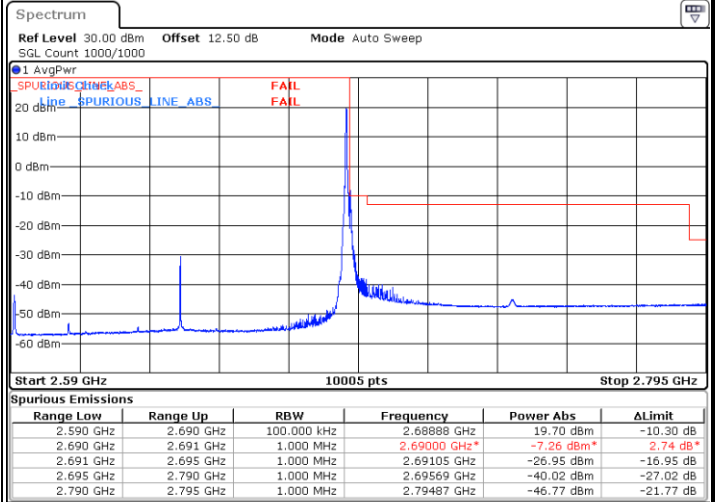
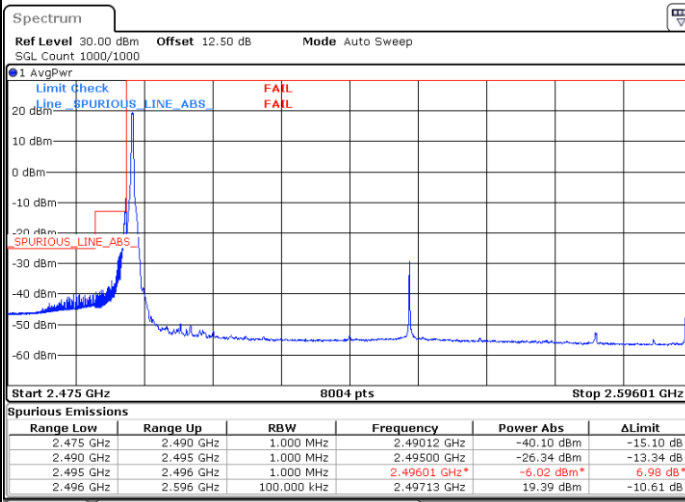
Date: 17.JUL.2020 19:15:09



FR1 n41 / 100MHz / DFT-S OFDM / QPSK

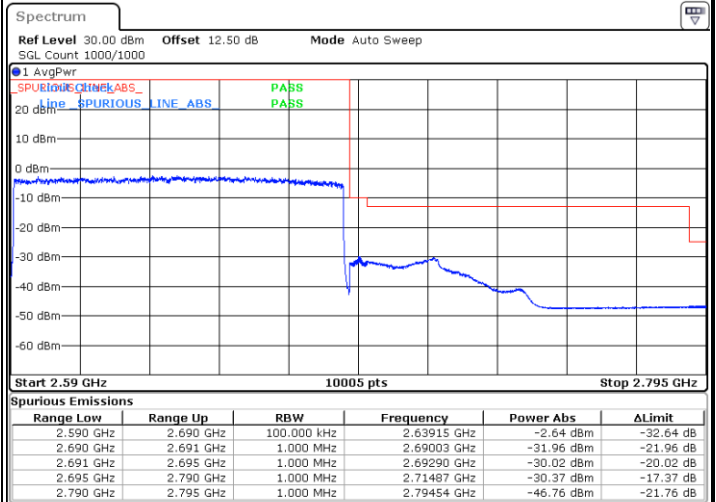
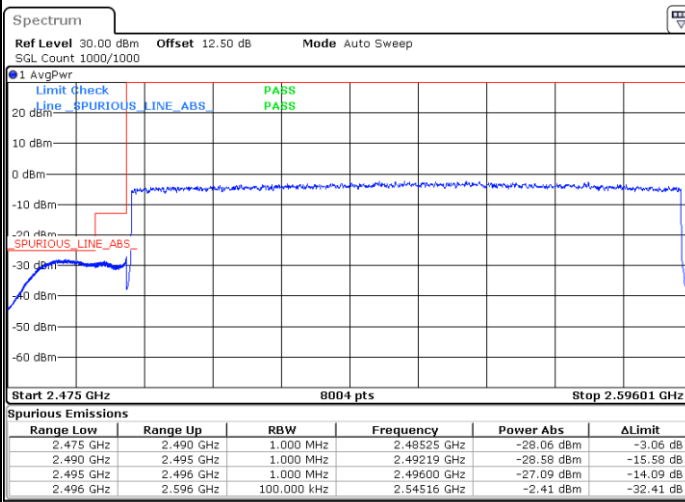
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

Highest Band Edge / Full RB

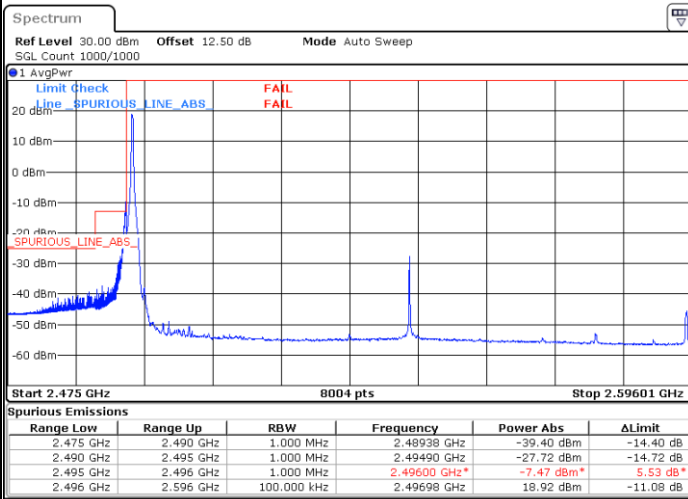




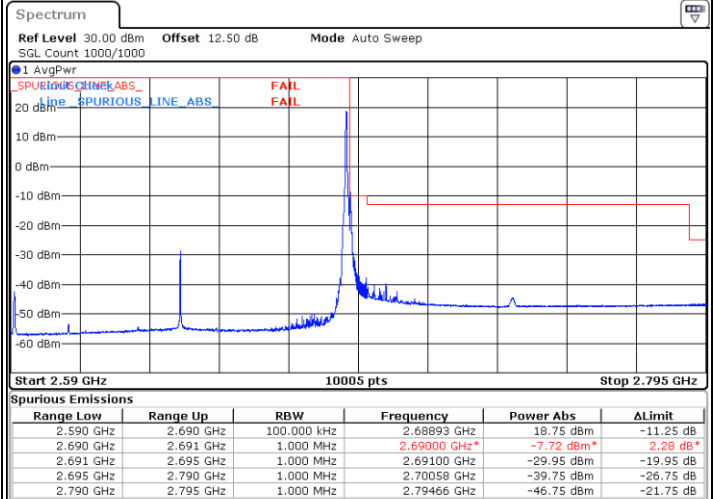
FR1 n41 / 100MHz / DFT-S OFDM / 16QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



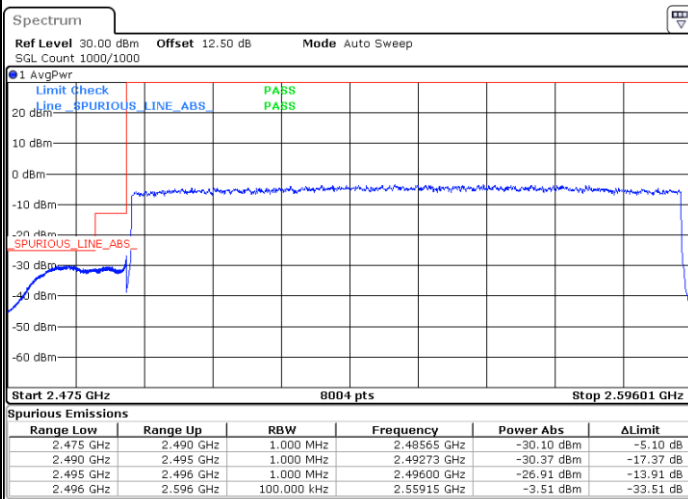
Date: 17.JUL.2020 16:59:02



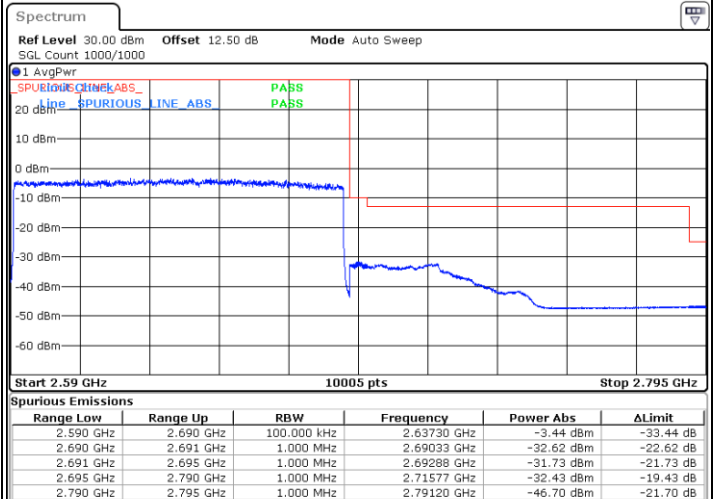
Date: 17.JUL.2020 19:03:23

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17.JUL.2020 17:05:45



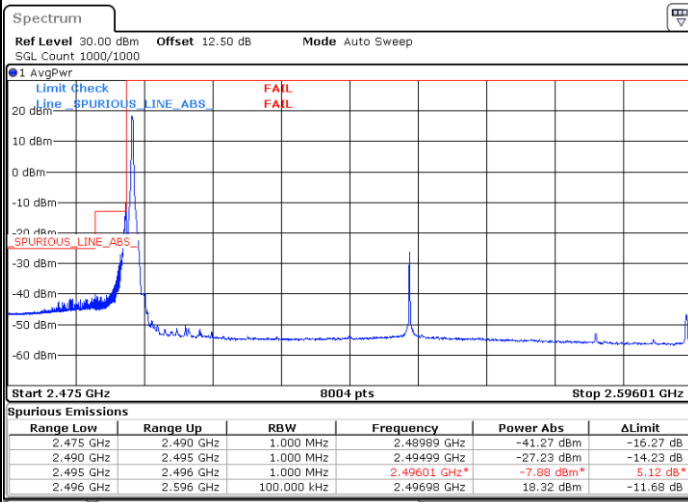
Date: 17.JUL.2020 19:00:20



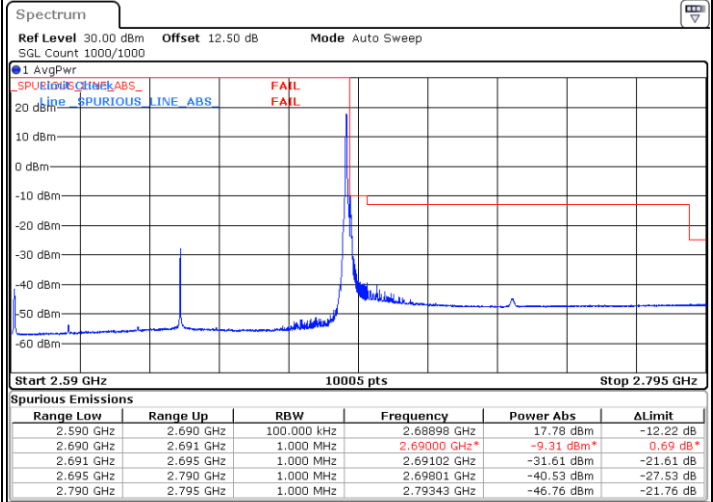
FR1 n41 / 100MHz / DFT-S OFDM / 64QAM

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



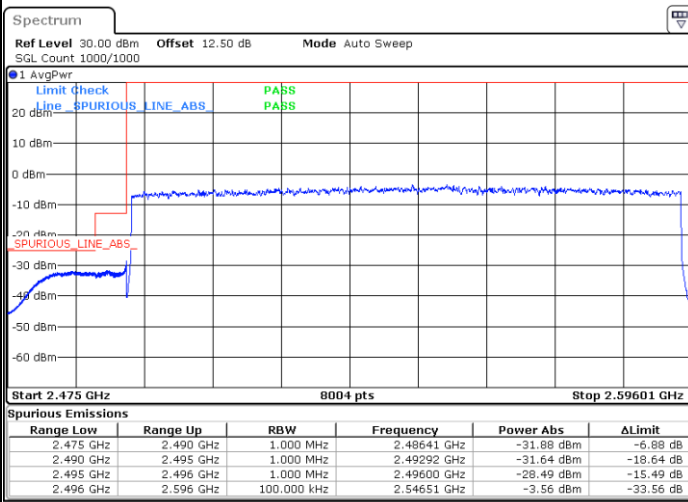
Date: 17.JUL.2020 17:01:28



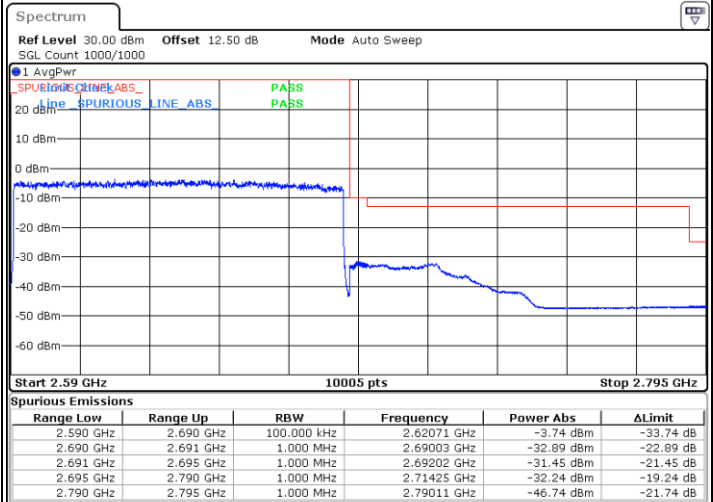
Date: 17.JUL.2020 18:45:23

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 17.JUL.2020 17:03:51



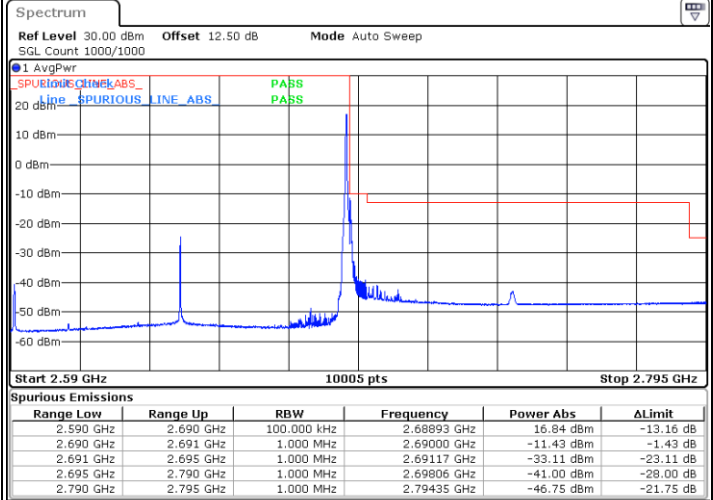
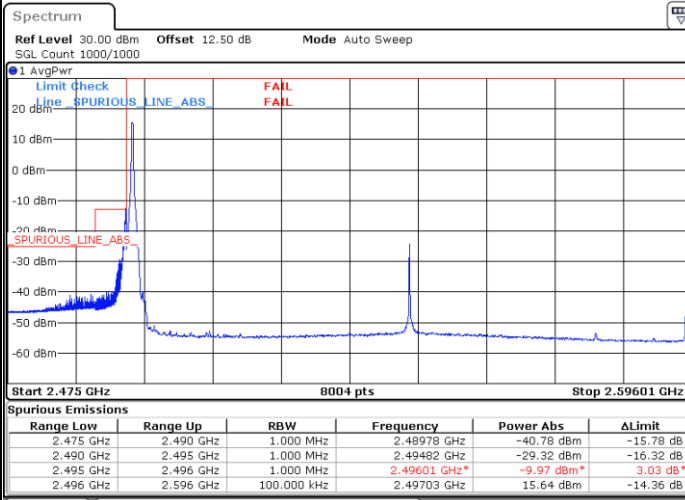
Date: 17.JUL.2020 18:48:07



FR1 n41 / 100MHz / DFT-S OFDM / 256QAM

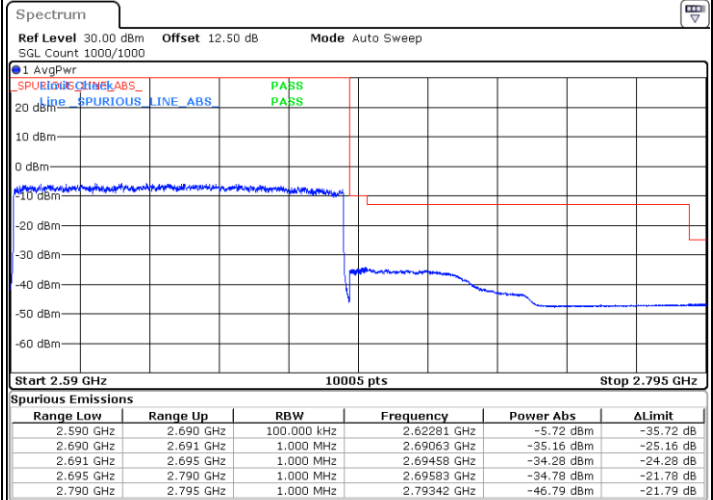
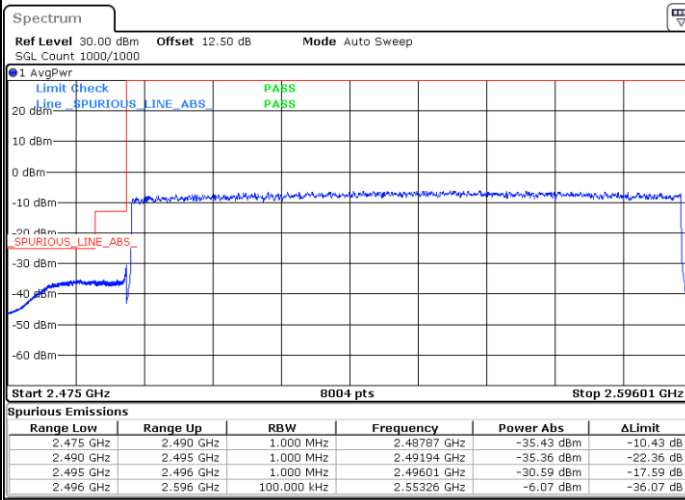
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



Lowest Band Edge / Full RB

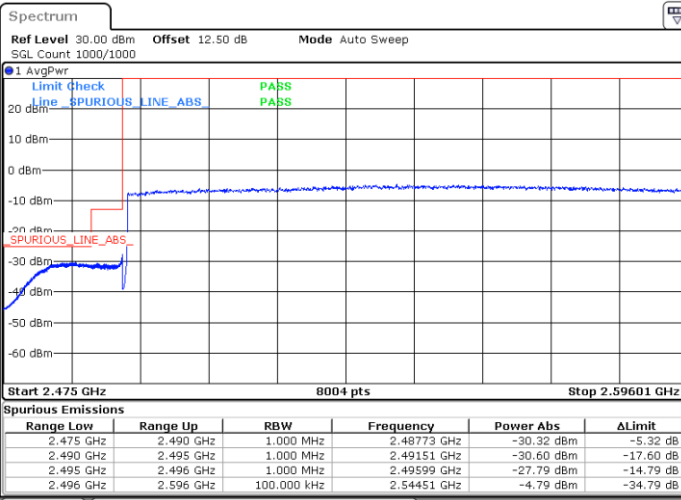
Highest Band Edge / Full RB





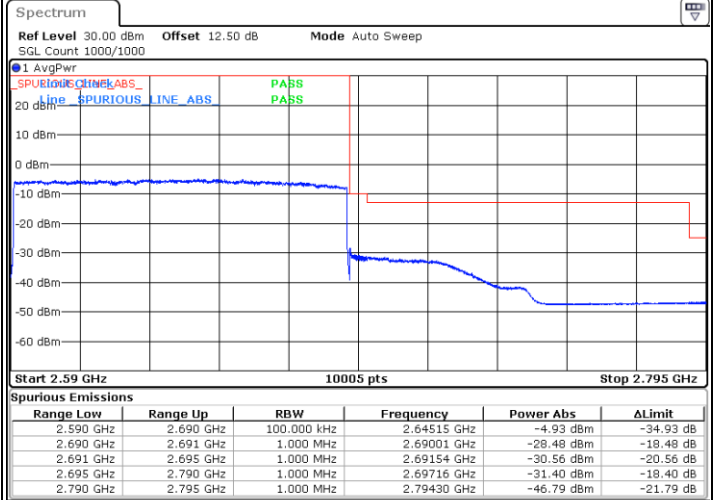
FR1 n41 / 100MHz / CP OFDM / QPSK

Lowest Band Edge / Full RB



Date: 17.JUL.2020 17:21:52

Highest Band Edge / Full RB



Date: 17.JUL.2020 19:26:55

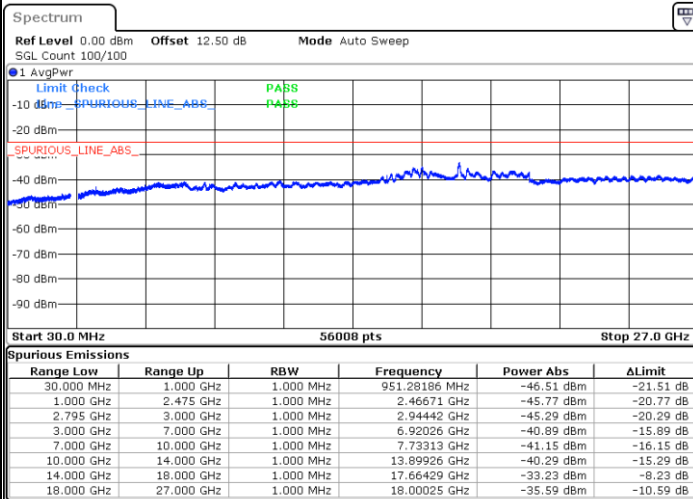


Conducted Spurious Emission

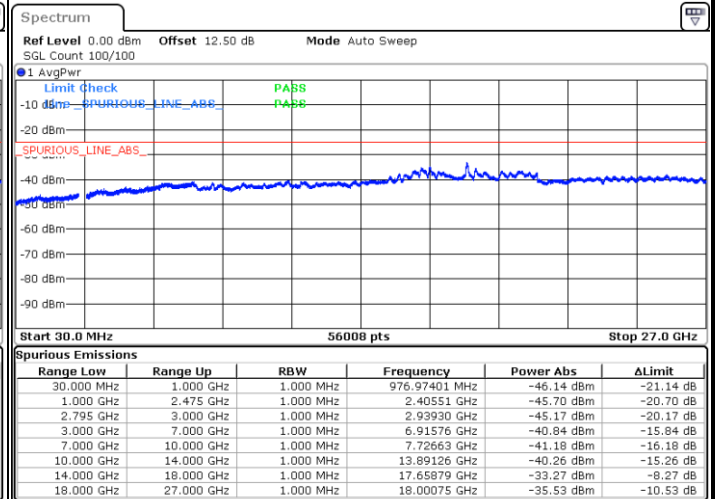
FR1 n41 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

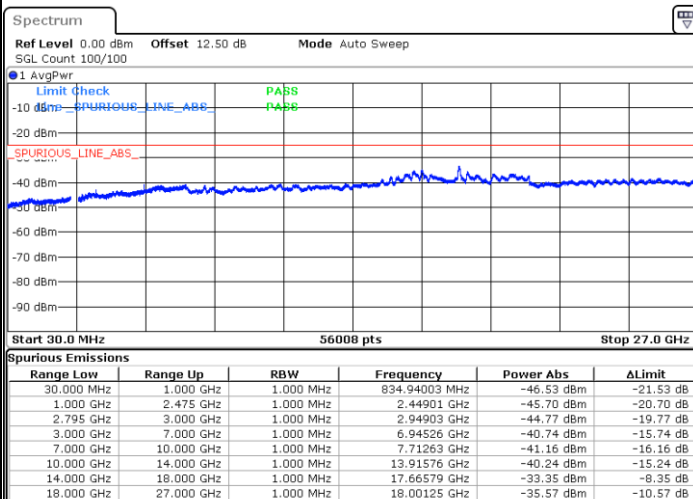


Date: 17.JUL.2020 07:20:07



Date: 17.JUL.2020 07:18:30

Highest Channel / 1RB1



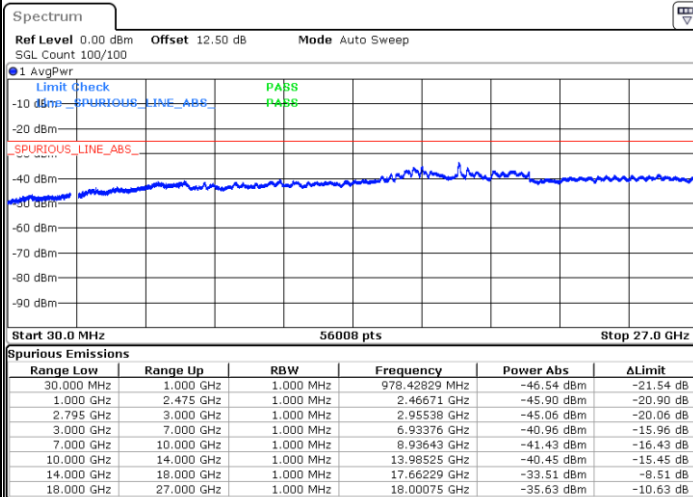
Date: 17.JUL.2020 07:13:58



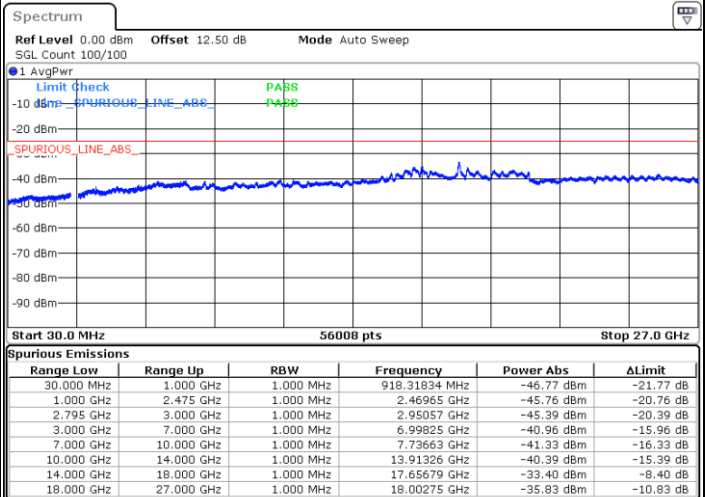
FR1 n41 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

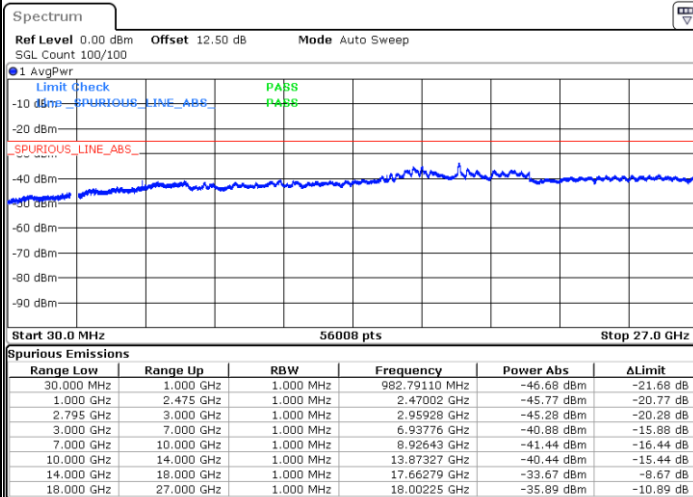


Date: 17.JUL.2020 10:48:51



Date: 17.JUL.2020 13:53:04

Highest Channel / 1RB1



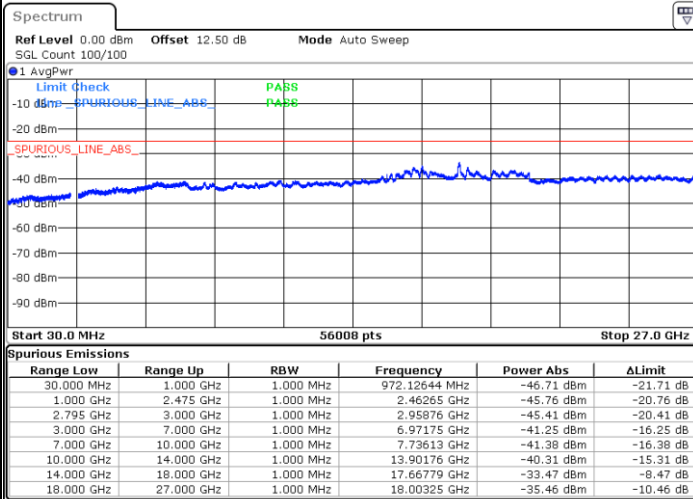
Date: 17.JUL.2020 13:59:35



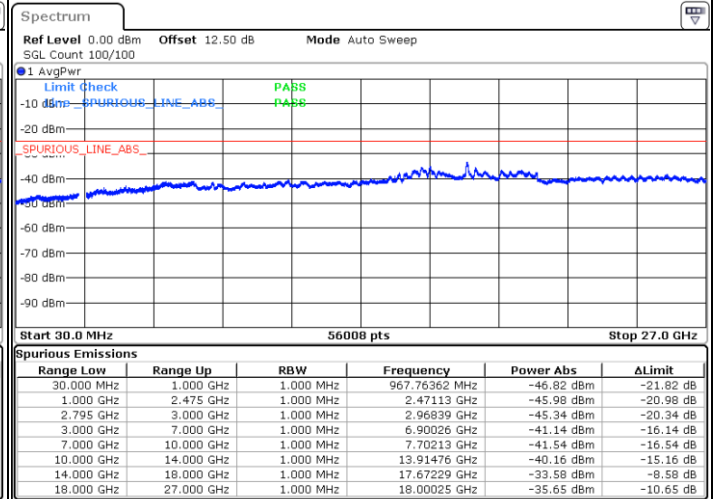
FR1 n41 / 50MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

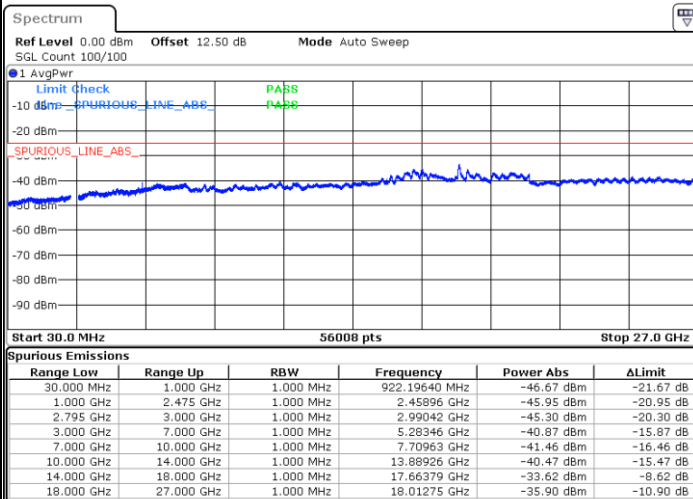


Date: 17.JUL.2020 21:04:10



Date: 17.JUL.2020 21:03:01

Highest Channel / 1RB1

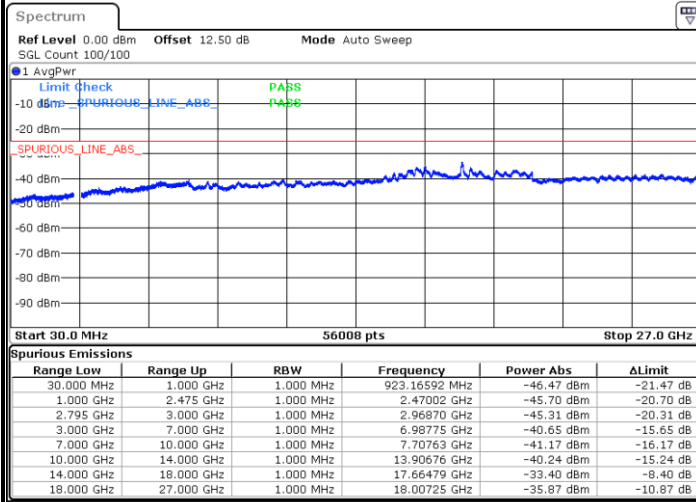


Date: 17.JUL.2020 21:40:13



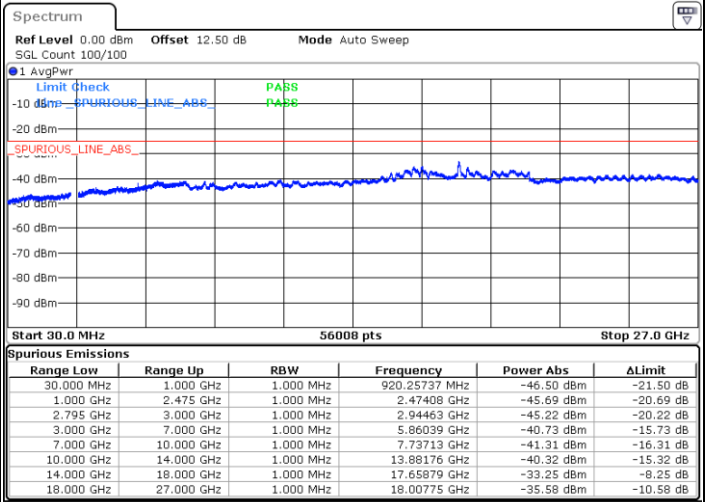
FR1 n41 / 60MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



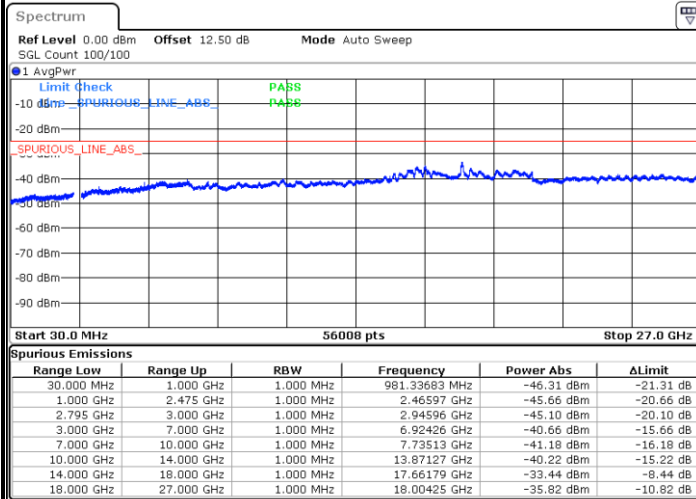
Date: 18.JUL.2020 15:12:15

Middle Channel / 1RB1



Date: 18.JUL.2020 15:54:08

Highest Channel / 1RB1



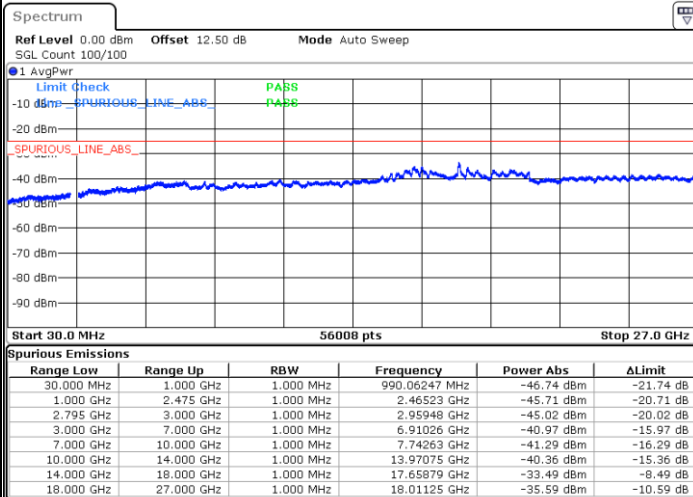
Date: 18.JUL.2020 16:35:52



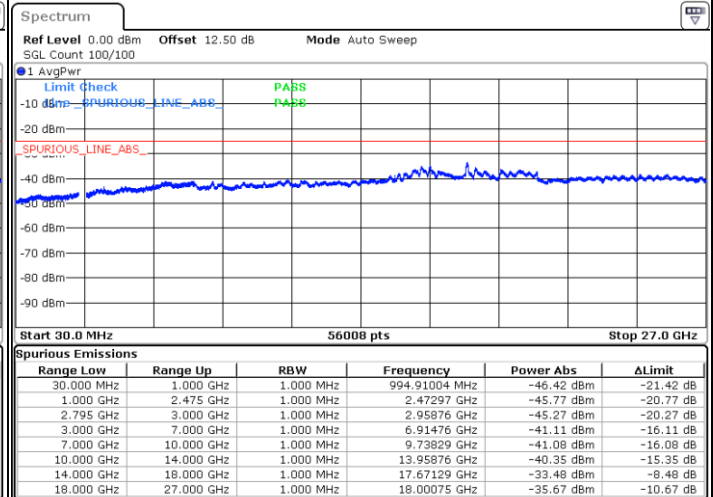
FR1 n41 / 80MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

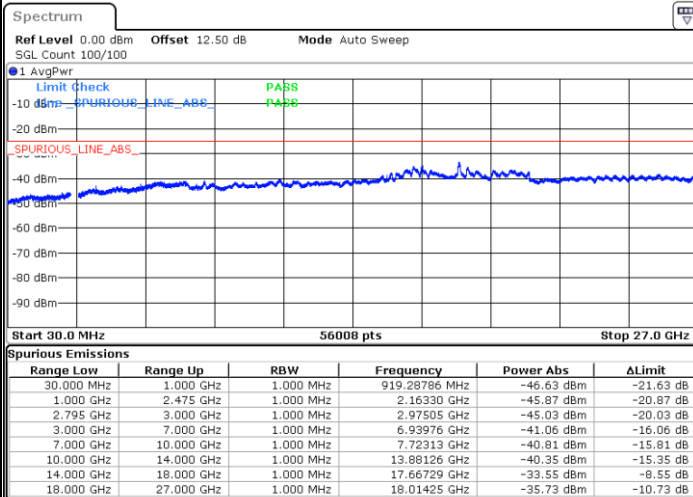


Date: 18.JUL.2020 19:12:22



Date: 18.JUL.2020 19:15:58

Highest Channel / 1RB1



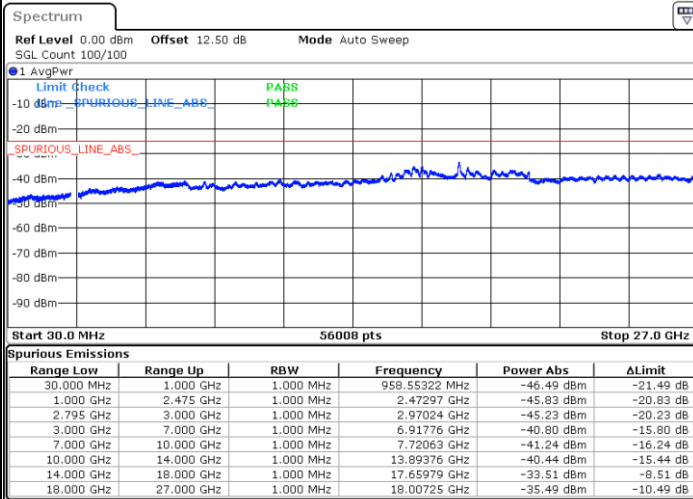
Date: 18.JUL.2020 19:17:10



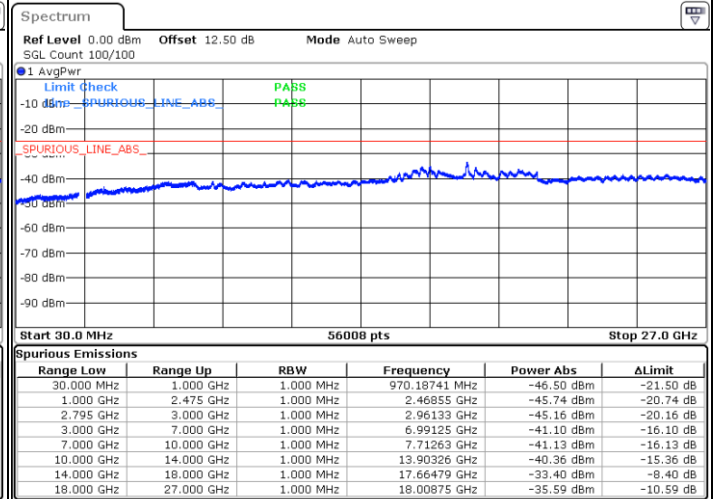
FR1 n41 / 90MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

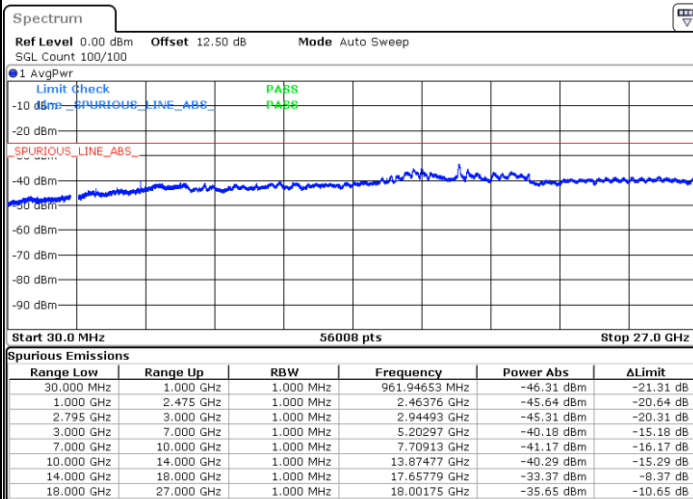


Date: 18.JUL.2020 21:53:26



Date: 18.JUL.2020 21:51:56

Highest Channel / 1RB1

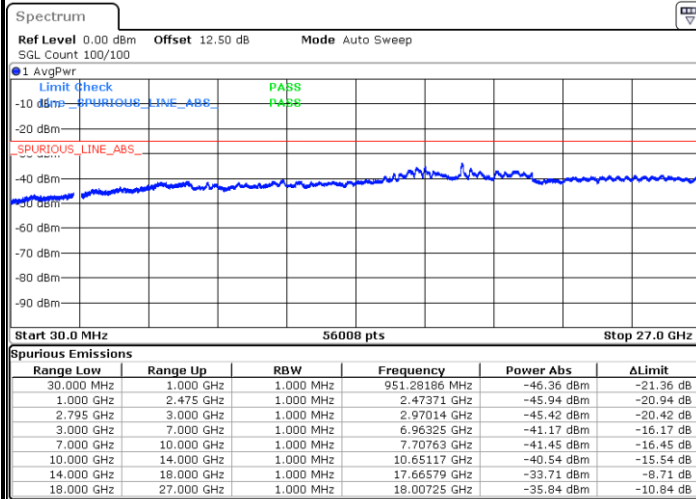


Date: 18.JUL.2020 20:51:52



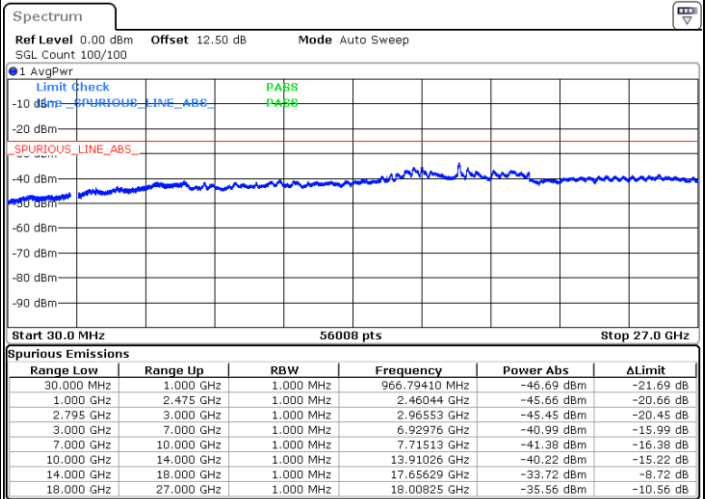
FR1 n41 / 100MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1



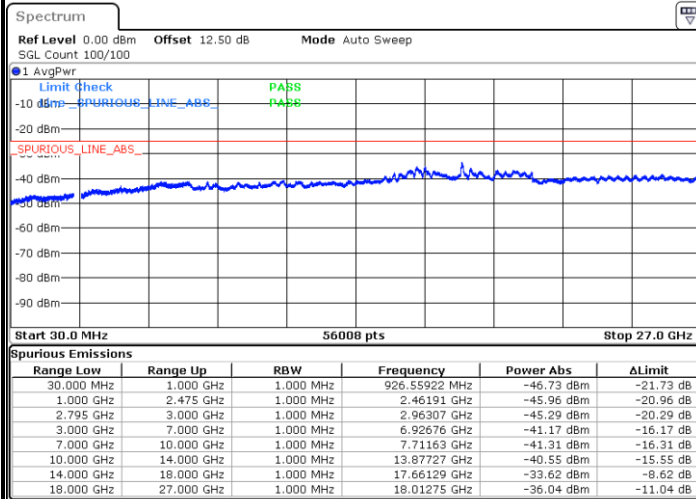
Date: 17.JUL.2020 17:13:13

Middle Channel / 1RB1



Date: 17.JUL.2020 18:32:15

Highest Channel / 1RB1



Date: 17.JUL.2020 19:05:34

Frequency Stability

Test Conditions		FR1 n41 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0052	PASS
40	Normal Voltage	0.0016	
30	Normal Voltage	0.0040	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0025	
0	Normal Voltage	0.0012	
-10	Normal Voltage	0.0007	
-20	Normal Voltage	0.0009	
-30	Normal Voltage	0.0003	
20	Maximum Voltage	0.0022	
20	Normal Voltage	0.0038	
20	Battery End Point	0.0010	

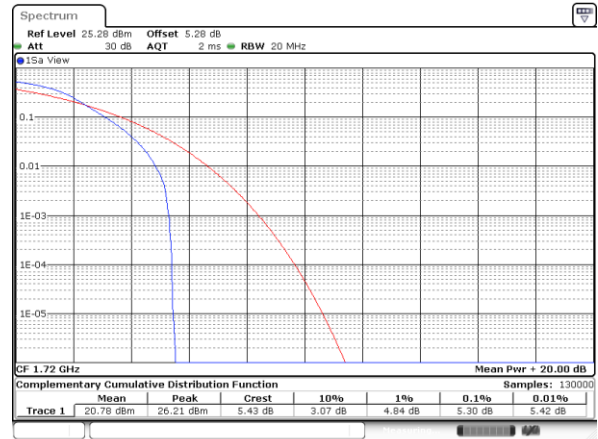
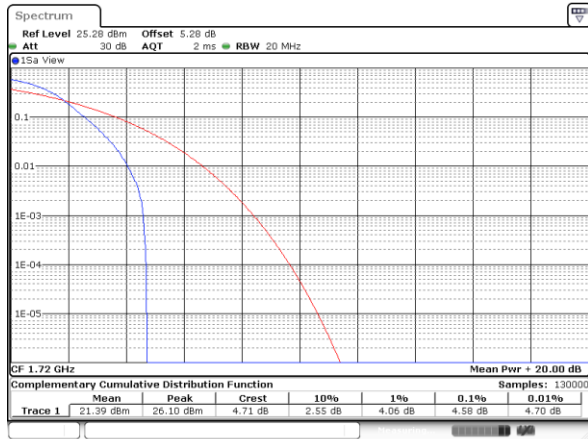
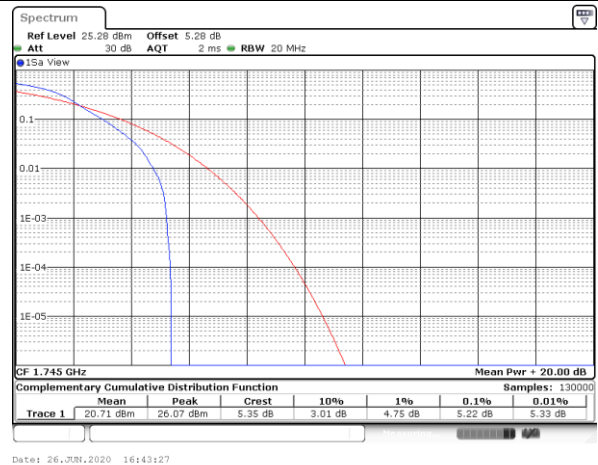
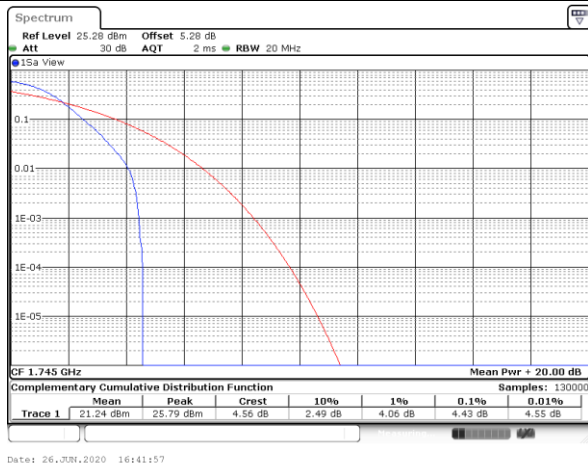
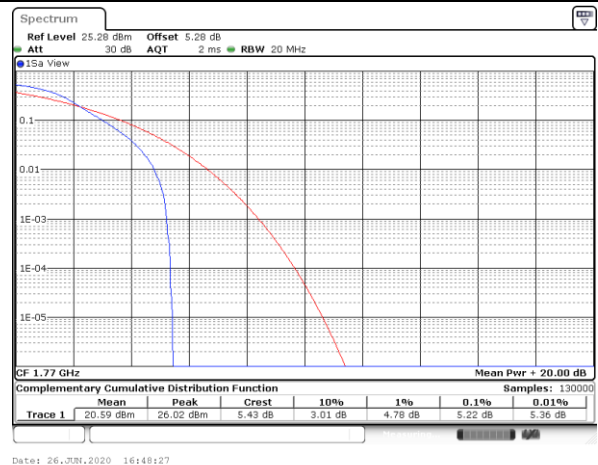
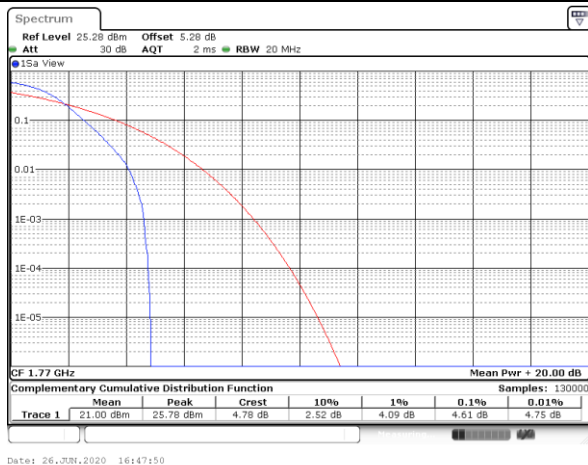
Note:

1. Normal Voltage =3.87 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

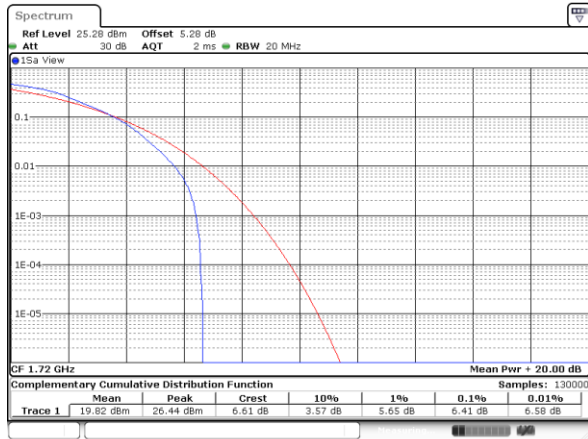
Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	Full RB	Full RB	Full RB	Full RB	Result
Lowest CH	4.58	5.30	6.41	6.81	PASS
Middle CH	4.43	5.22	6.41	6.84	
Highest CH	4.61	5.22	6.41	6.70	
Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Lowest CH	7.22				PASS
Middle CH	7.25				
Highest CH	7.25				

FR1 n66 / 20MHz / DFT-S OFDM
PI/2 BPSK
QPSK
Lowest Channel / Full RB
Lowest Channel / Full RB

Middle Channel / Full RB
Middle Channel / Full RB

Highest Channel / Full RB
Highest Channel / Full RB


FR1 n66 / 20MHz / DFT-S OFDM

16QAM

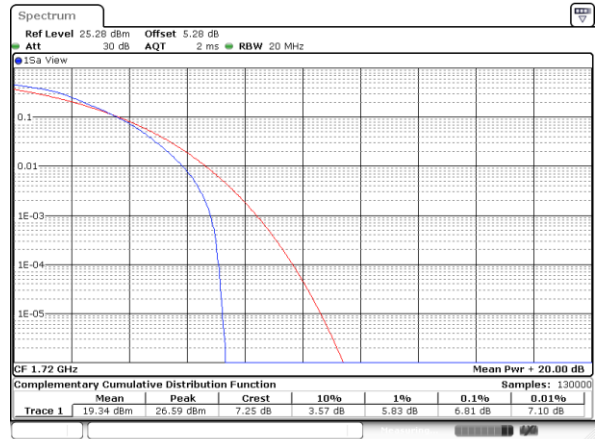
Lowest Channel / Full RB



Date: 26 JUN 2020 16:30:14

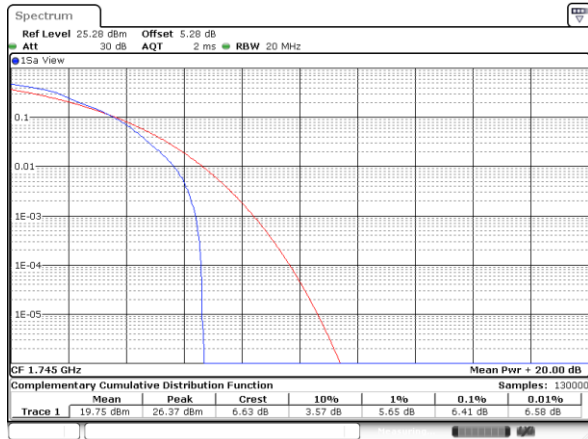
64QAM

Lowest Channel / Full RB



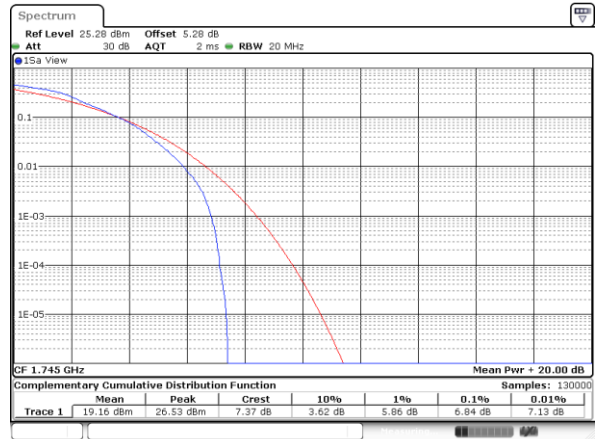
Date: 26 JUN 2020 16:30:01

Middle Channel / Full RB



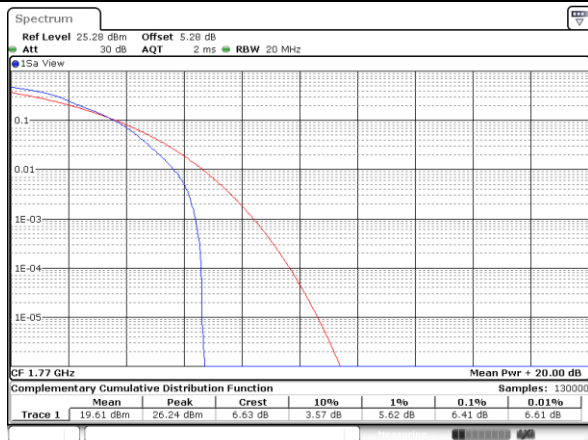
Date: 26 JUN 2020 16:43:44

Middle Channel / Full RB



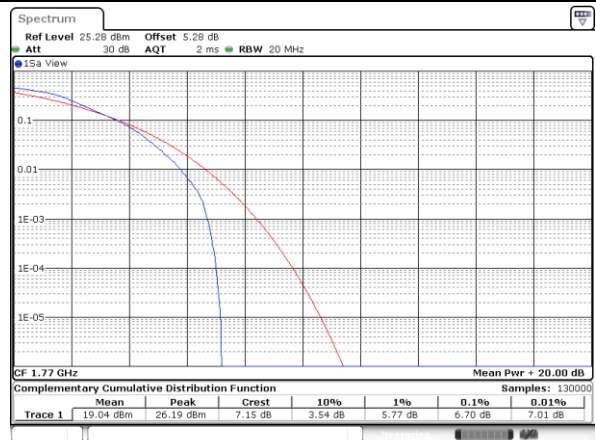
Date: 26 JUN 2020 16:43:58

Highest Channel / Full RB



Date: 26 JUN 2020 16:48:47

Highest Channel / Full RB

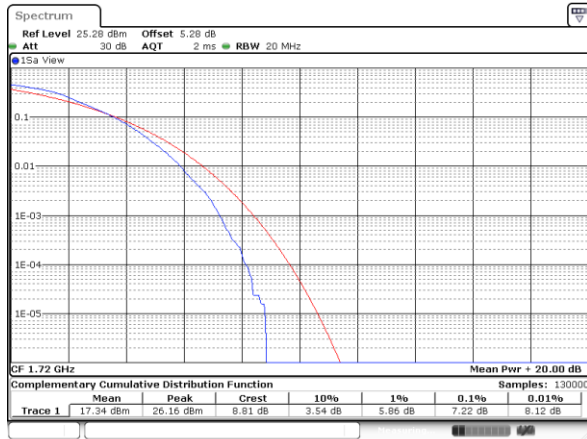


Date: 26 JUN 2020 16:49:10

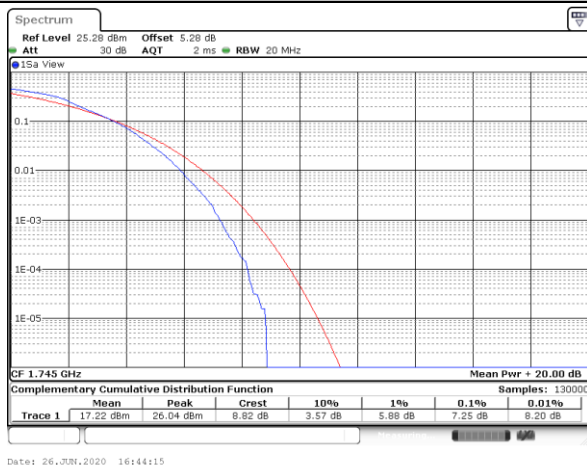
FR1 n66 / 20MHz / DFT-S OFDM

256QAM

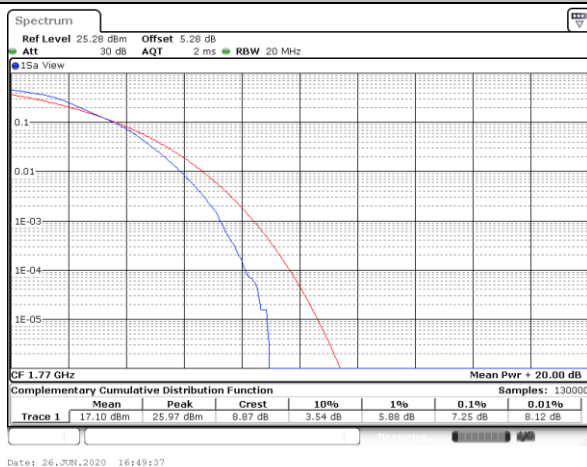
Lowest Channel / Full RB



Middle Channel / Full RB



Highest Channel / Full RB



**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	
Lowest CH	5.13		9.33		14.42		18.82	
Middle CH	5.00		9.45		14.54		18.98	
Highest CH	4.88		9.63		14.24		18.82	

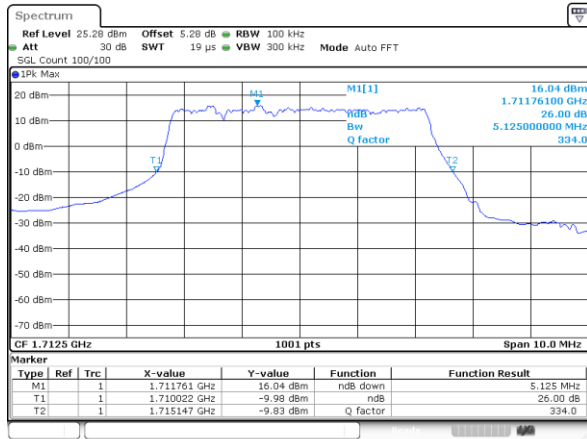
Mode	FR1 n66 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.98	5.17	10.13	9.99	15.02	14.96	19.94	20.14
Middle CH	5.19	4.96	10.13	10.11	15.11	14.99	19.90	19.78
Highest CH	5.02	5.15	10.11	9.81	14.96	14.84	19.74	19.70

Mode	FR1 n66 : 26dB BW(MHz) / CP OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	5.17	4.82	9.81	9.83	14.99	14.84	19.82	19.82
Middle CH	5.19	5.11	9.81	9.79	15.02	15.11	19.82	19.82
Highest CH	5.17	5.15	9.91	10.09	14.93	15.02	20.10	19.86

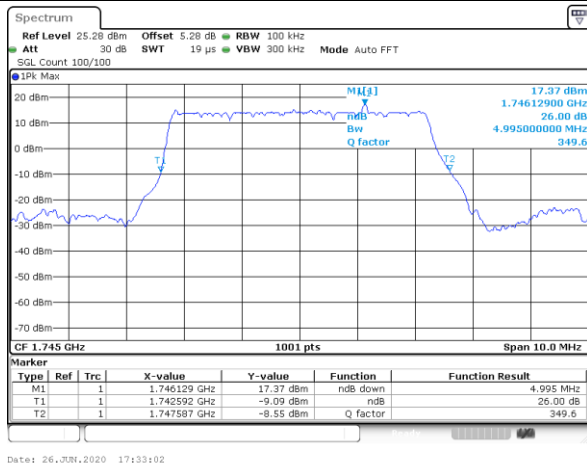
FR1 n66 / 5MHz / DFT-S OFDM

PI/2 BPSK

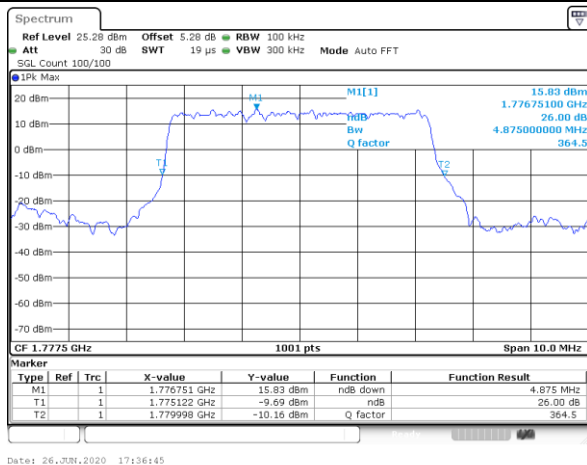
Lowest Channel



Middle Channel



Highest Channel

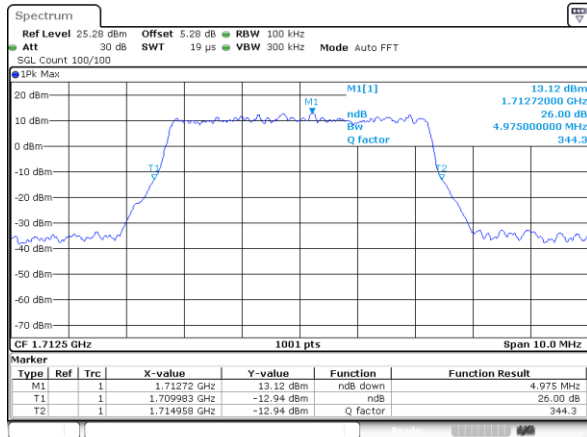




FR1 n66 / 5MHz / CP OFDM

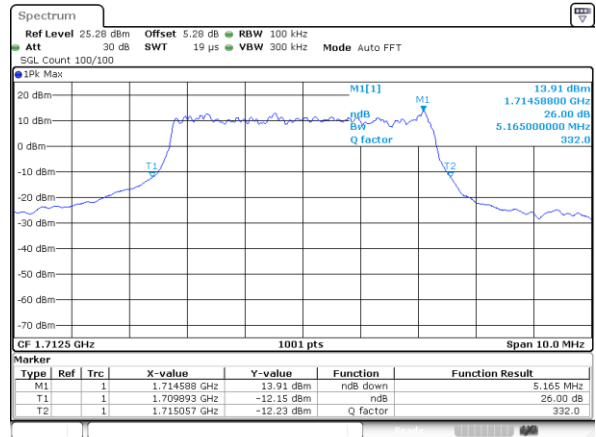
QPSK

Lowest Channel

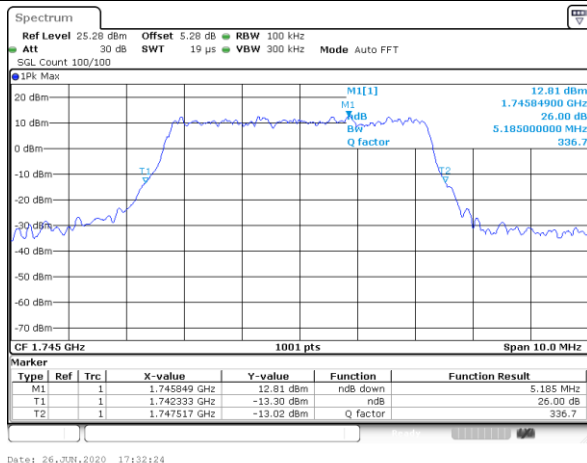


16QAM

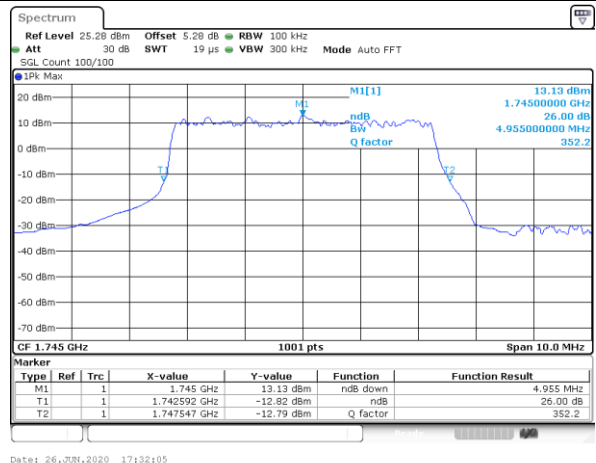
Lowest Channel



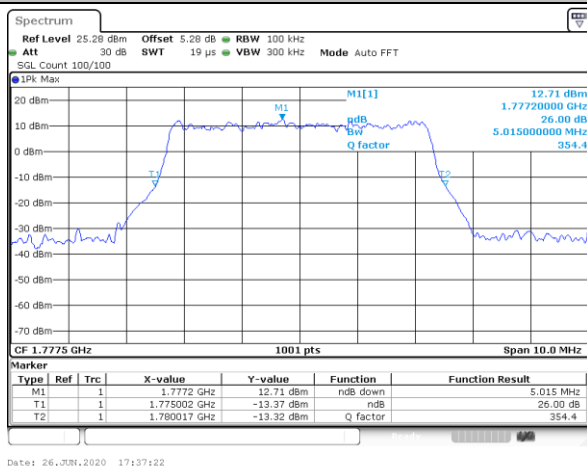
Middle Channel



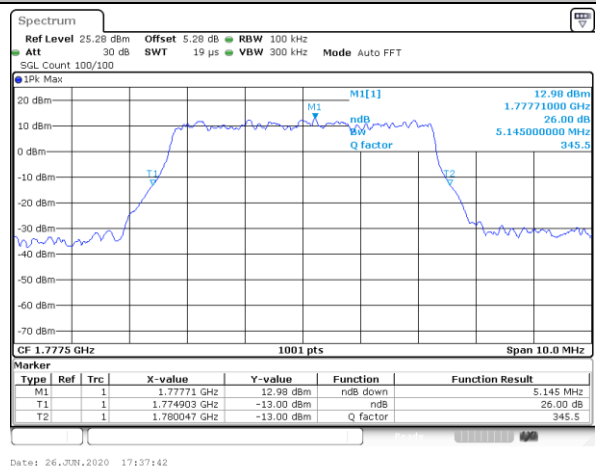
Middle Channel



Highest Channel



Highest Channel

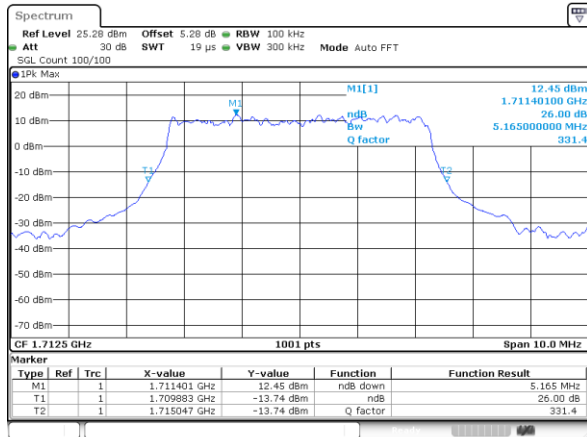




FR1 n66 / 5MHz / CP OFDM

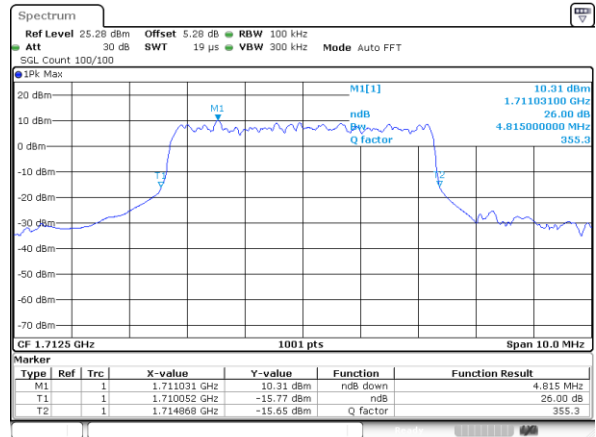
64QAM

Lowest Channel

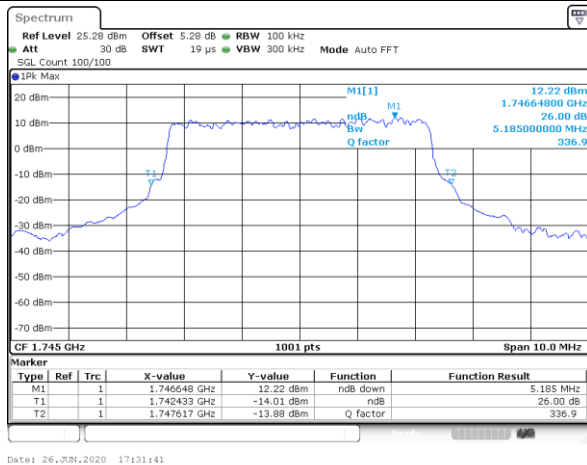


256QAM

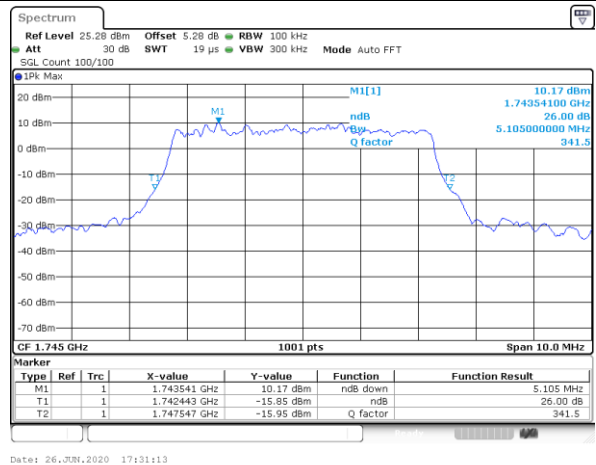
Lowest Channel



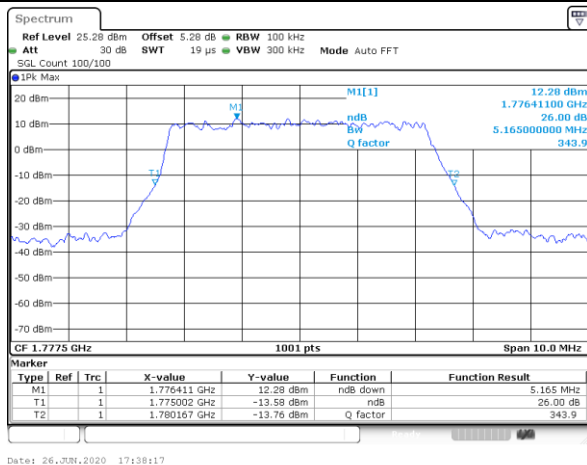
Middle Channel



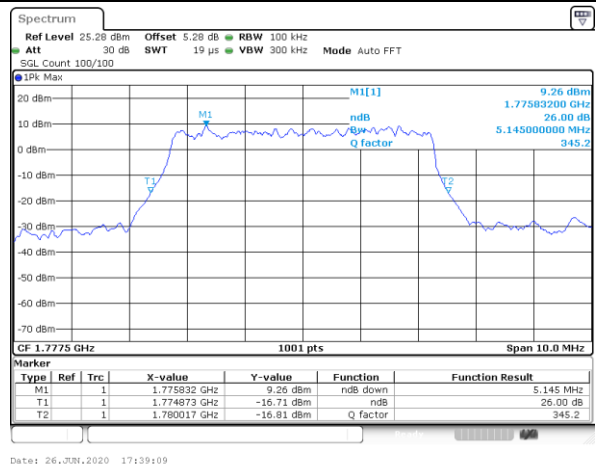
Middle Channel

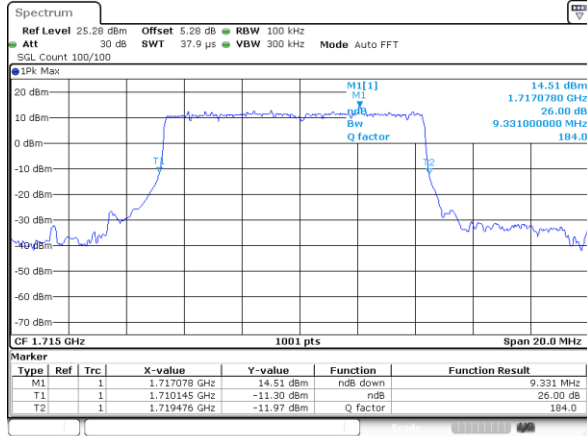
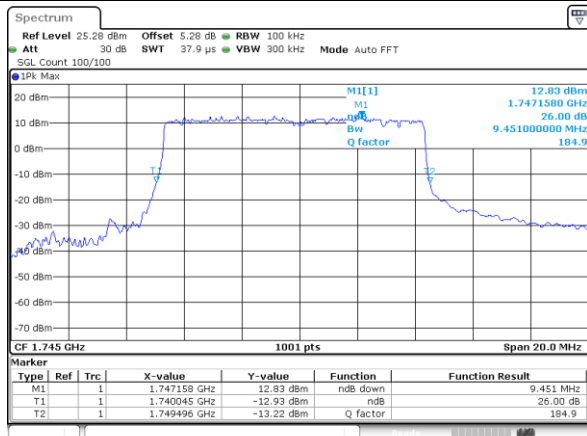
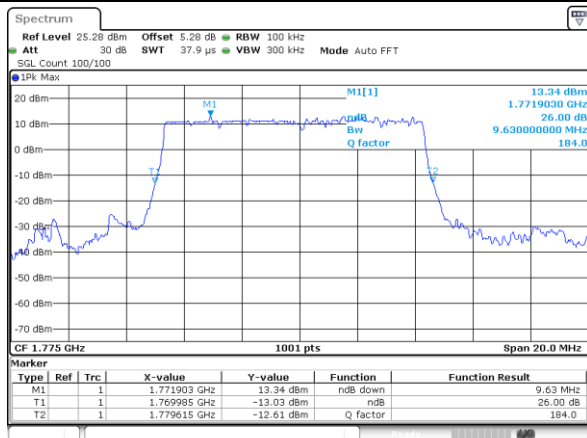


Highest Channel



Highest Channel



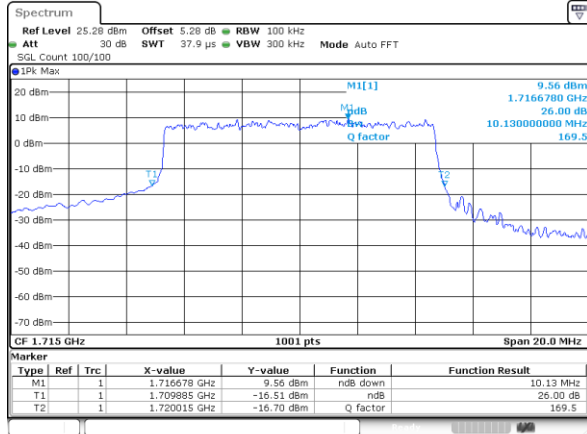
FR1 n66 / 10MHz / DFT-S OFDM
PI/2 BPSK
Lowest Channel

Middle Channel

Highest Channel




FR1 n66 / 10MHz / CP OFDM

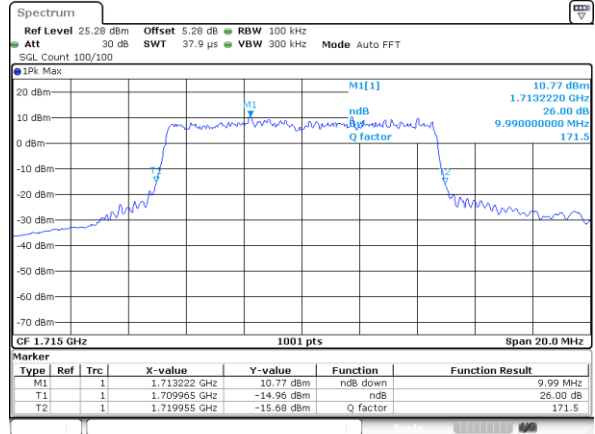
QPSK

Lowest Channel

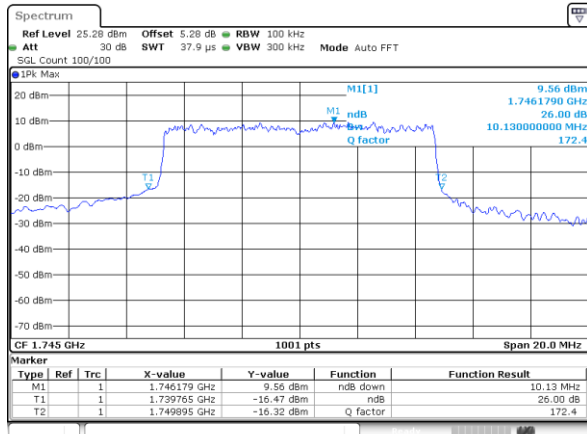


16QAM

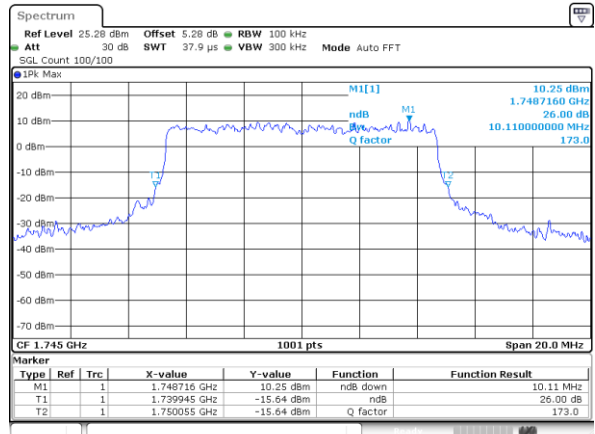
Lowest Channel



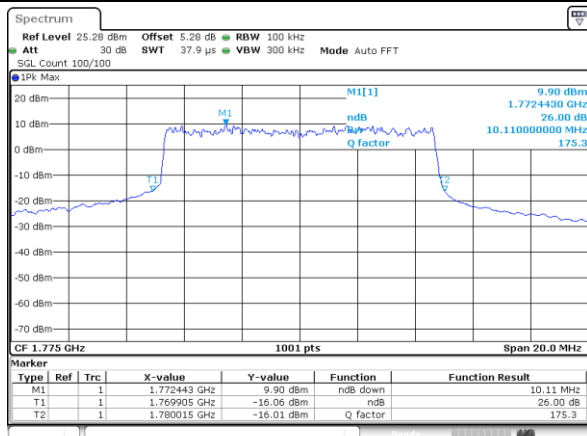
Middle Channel



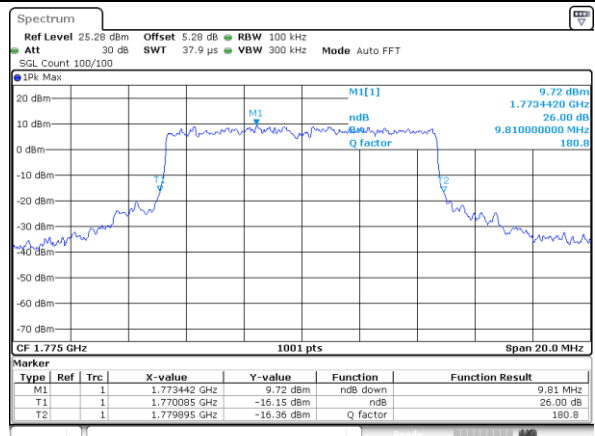
Middle Channel



Highest Channel



Highest Channel

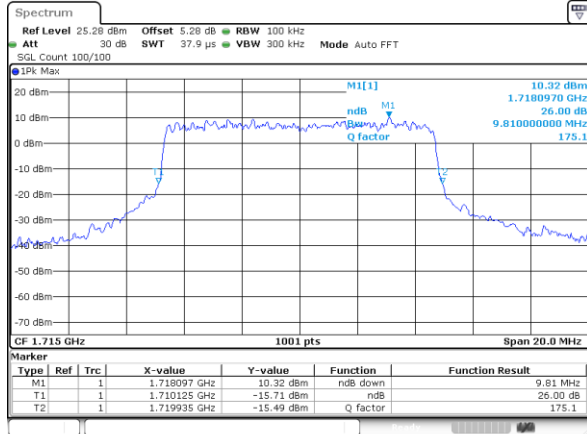




FR1 n66 / 10MHz / CP OFDM

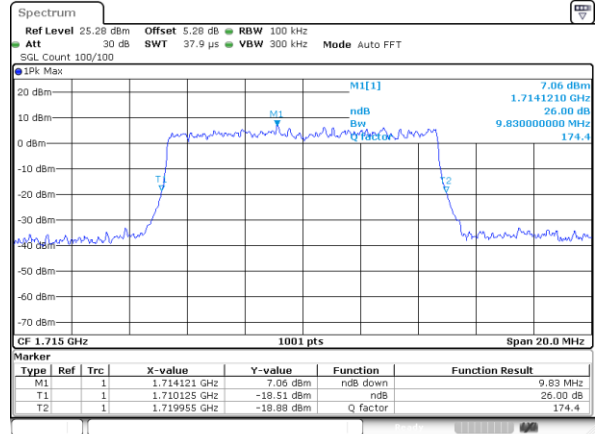
64QAM

Lowest Channel

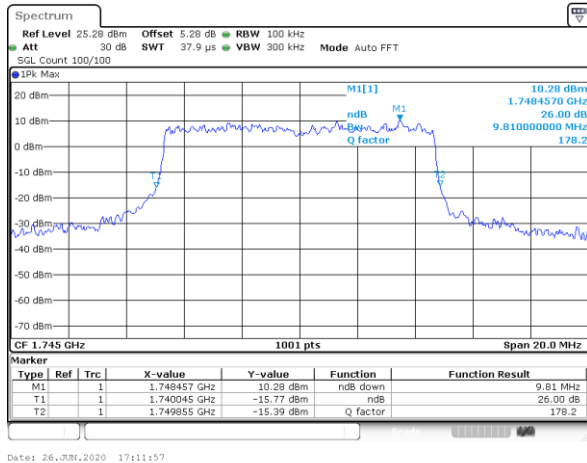


256QAM

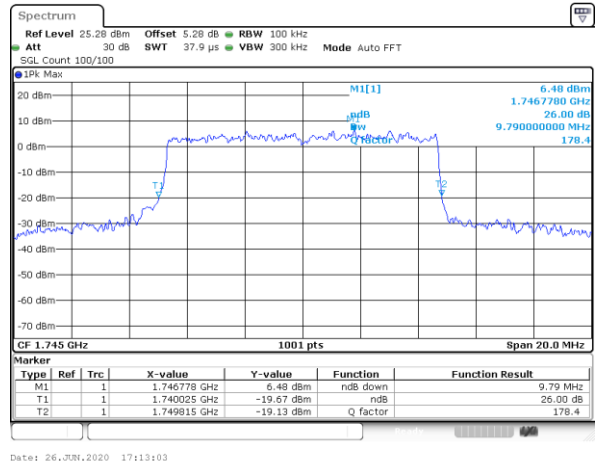
Lowest Channel



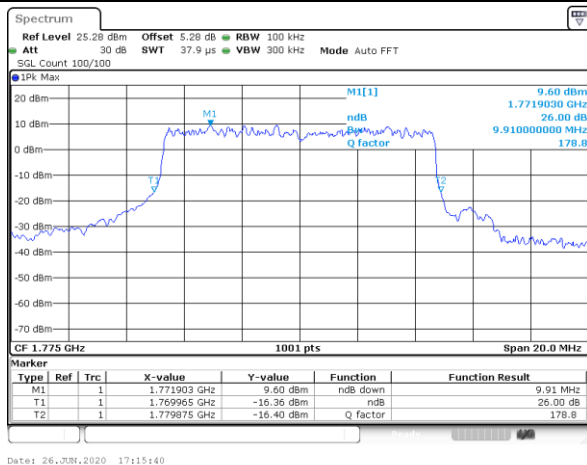
Middle Channel



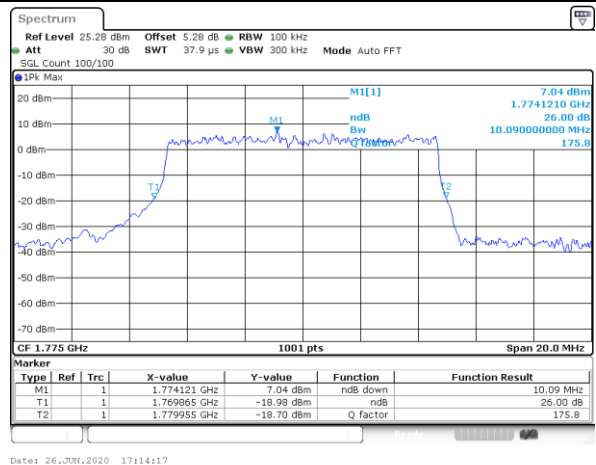
Middle Channel

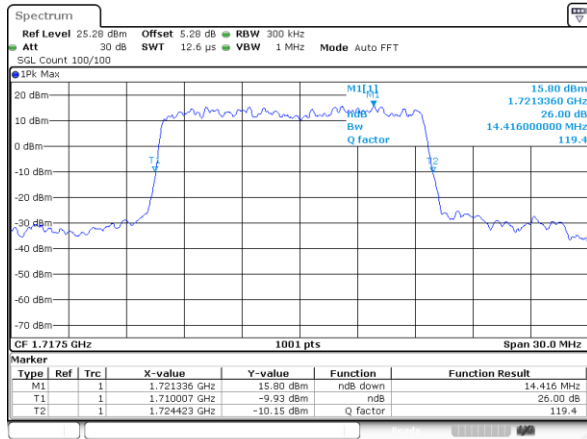
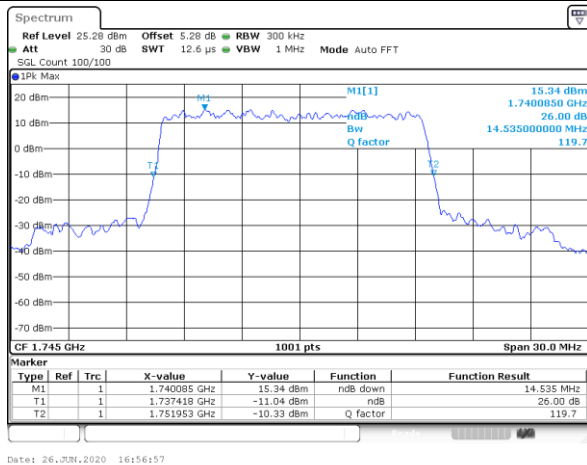


Highest Channel



Highest Channel



FR1 n66 / 15MHz / DFT-S OFDM
PI/2 BPSK
Lowest Channel

Middle Channel

Highest Channel
