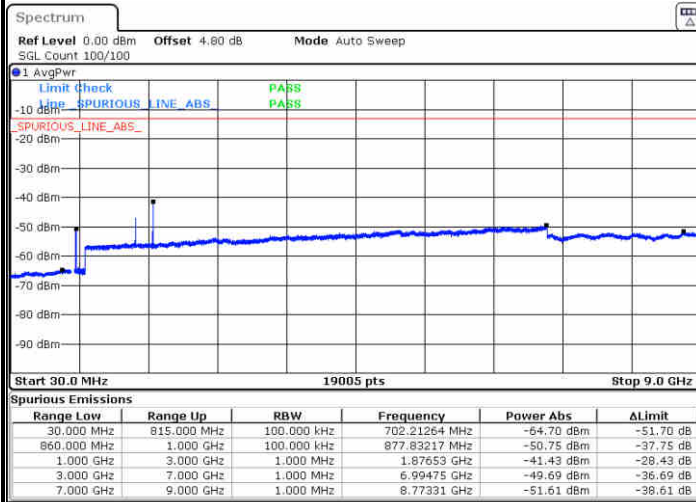




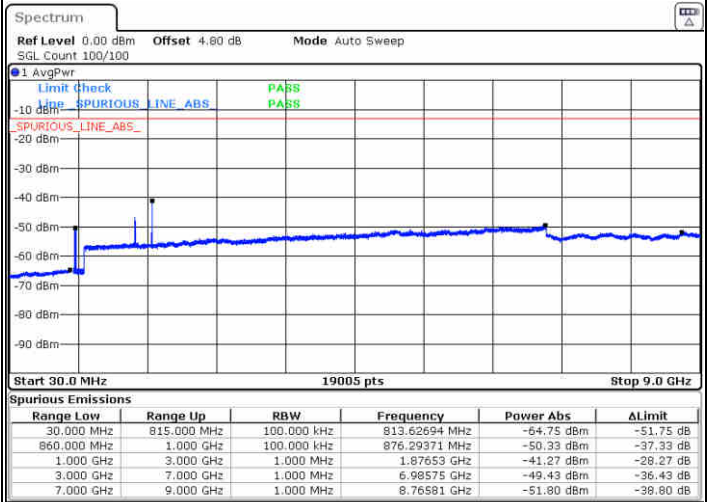
FR1 n5 / 15MHz / DFT-S OFDM / 16QAM

Lowest Channel / 1RB0



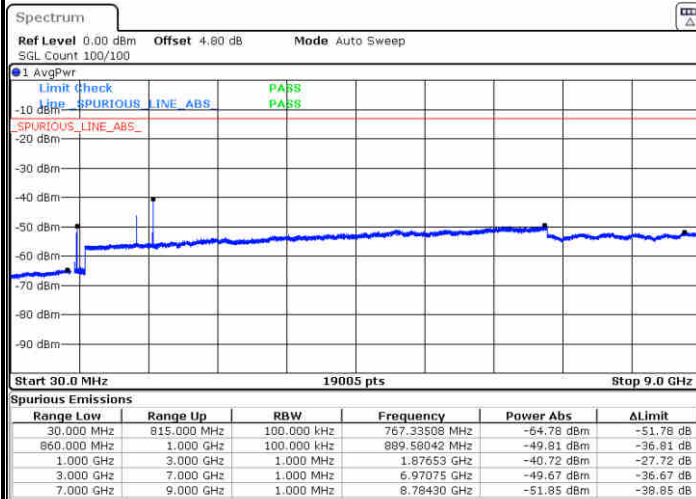
Date: 22 AUG 2020 23:51:13

Middle Channel / 1RB0



Date: 22 AUG 2020 23:55:17

Highest Channel / 1RB0

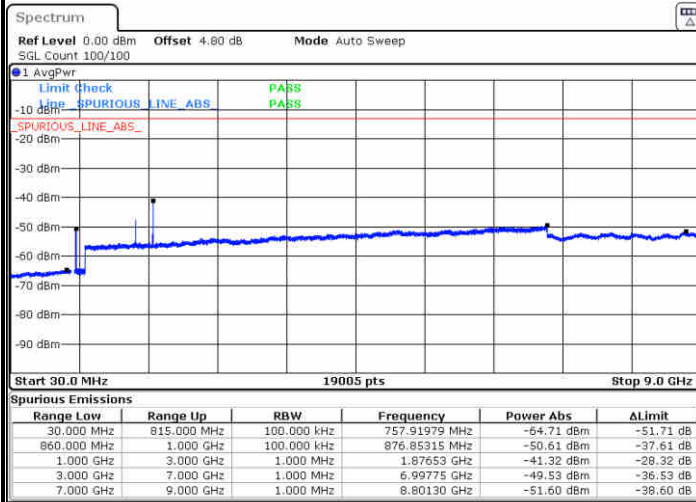


Date: 23 AUG 2020 00:06:51



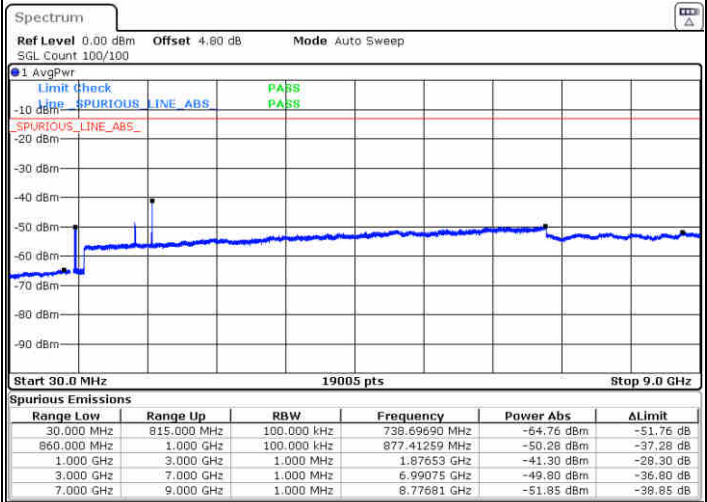
FR1 n5 / 15MHz / DFT-S OFDM / 64QAM

Lowest Channel / 1RB0



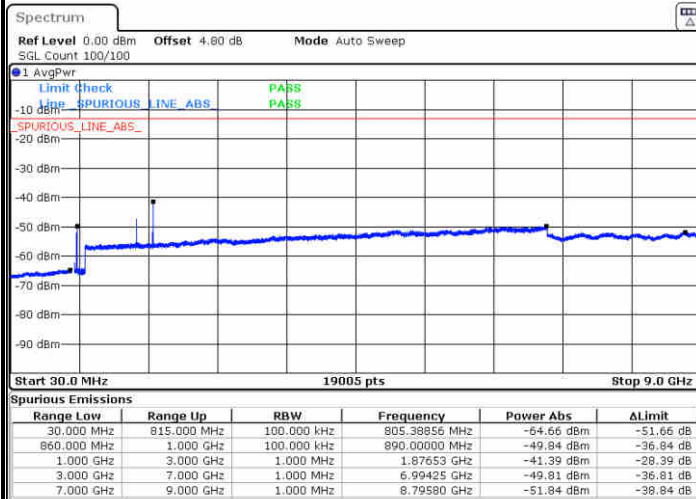
Date: 22 AUG 2020 23:49:33

Middle Channel / 1RB0



Date: 22 AUG 2020 23:55:52

Highest Channel / 1RB0

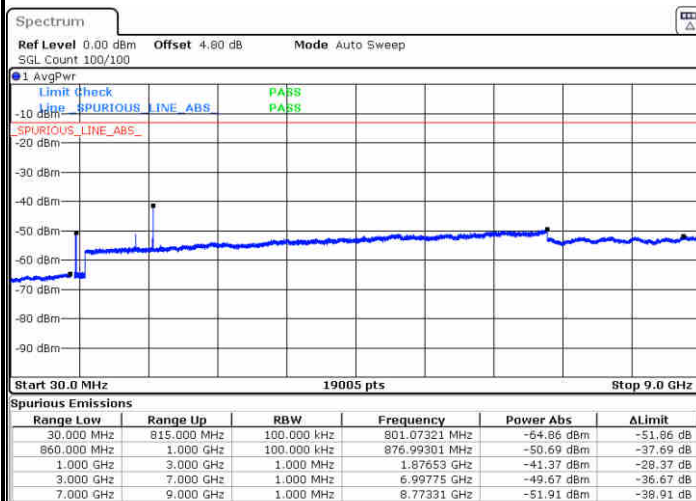


Date: 23 AUG 2020 00:06:21



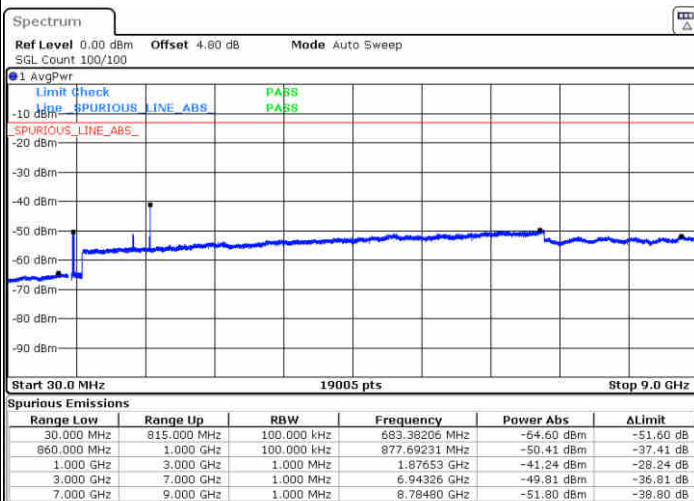
FR1 n5 / 15MHz / DFT-S OFDM / 256QAM

Lowest Channel / 1RB0



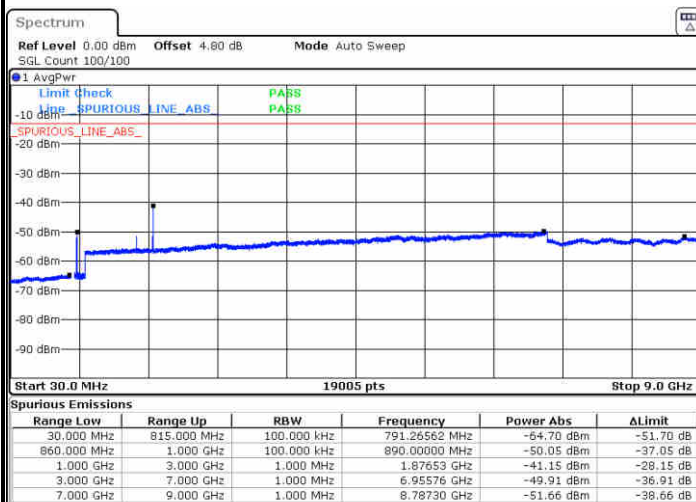
Date: 22 AUG 2020 23:47:48

Middle Channel / 1RB0



Date: 22 AUG 2020 23:56:27

Highest Channel / 1RB0

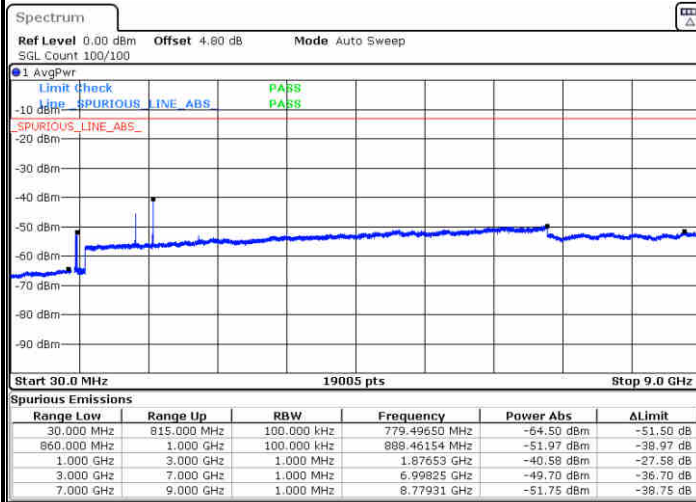


Date: 23 AUG 2020 00:05:01



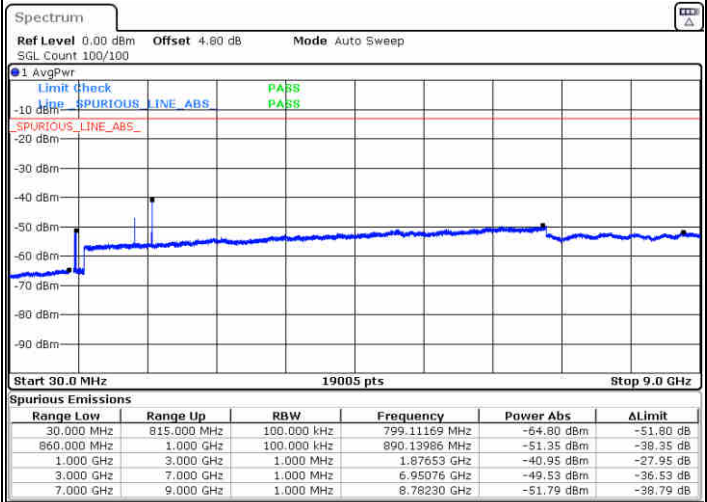
FR1 n5 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB0



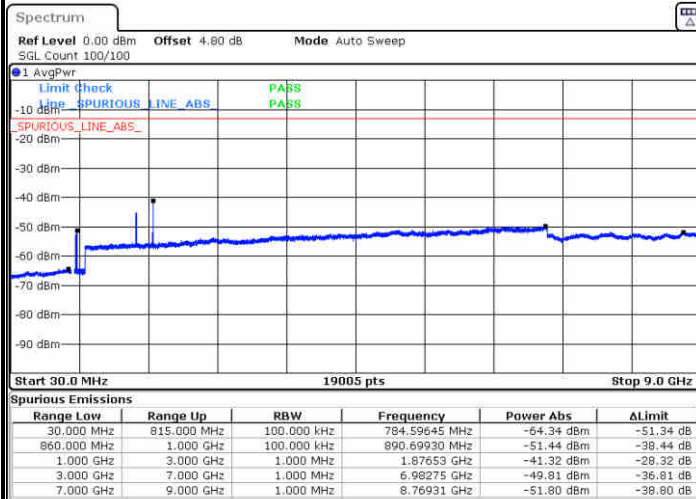
Date: 23 AUG 2020 01:16:29

Middle Channel / 1RB0



Date: 23 AUG 2020 01:22:41

Highest Channel / 1RB0

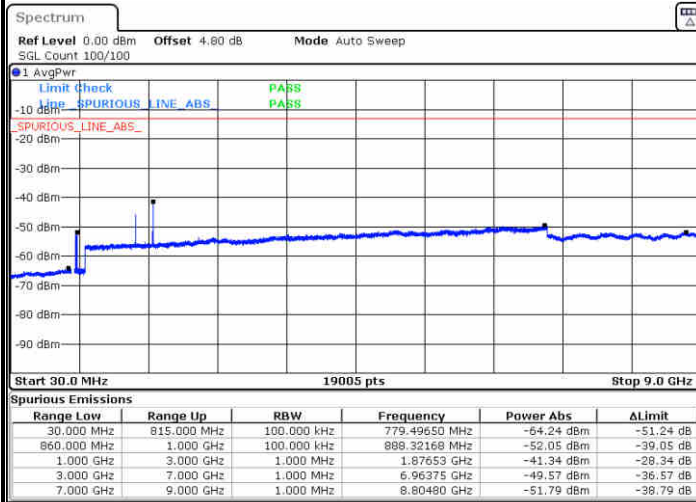


Date: 23 AUG 2020 01:30:17



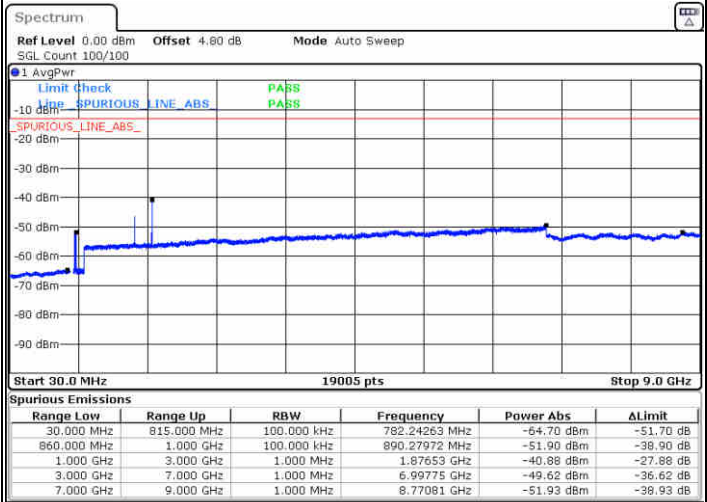
FR1 n5 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB0



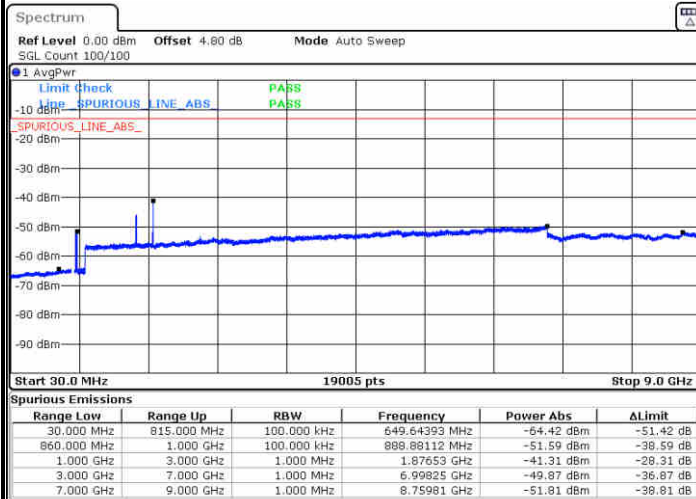
Date: 23 AUG 2020 01:15:20

Middle Channel / 1RB0



Date: 23 AUG 2020 01:24:16

Highest Channel / 1RB0

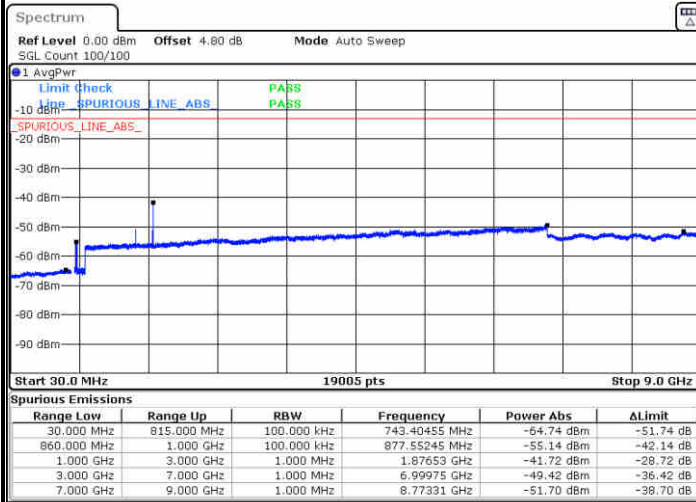


Date: 23 AUG 2020 01:29:34



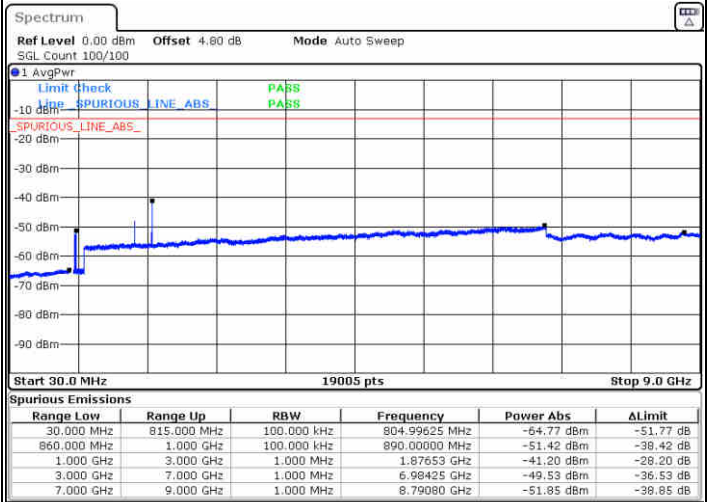
FR1 n5 / 20MHz / DFT-S OFDM / 16QAM

Lowest Channel / 1RB0



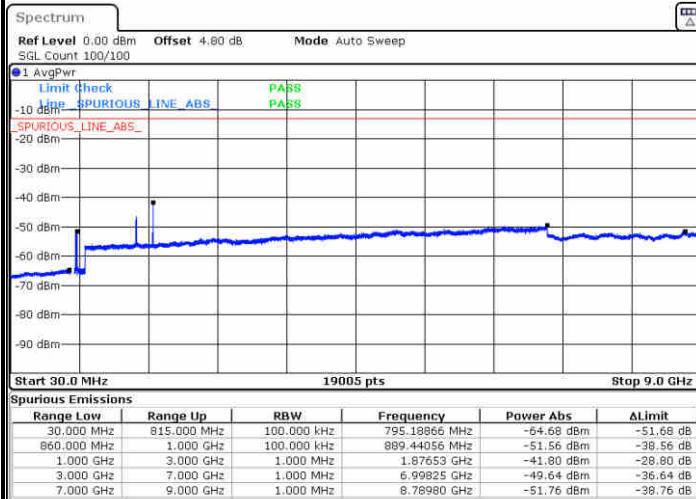
Date: 23 AUG 2020 01:13:33

Middle Channel / 1RB0



Date: 23 AUG 2020 01:24:56

Highest Channel / 1RB0

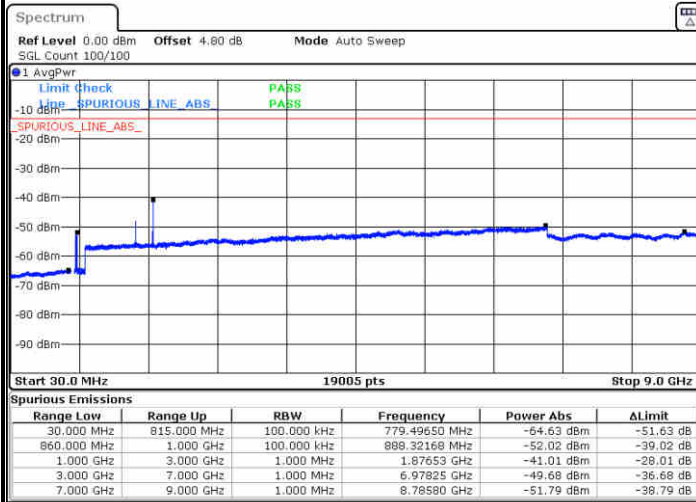


Date: 23 AUG 2020 01:28:56



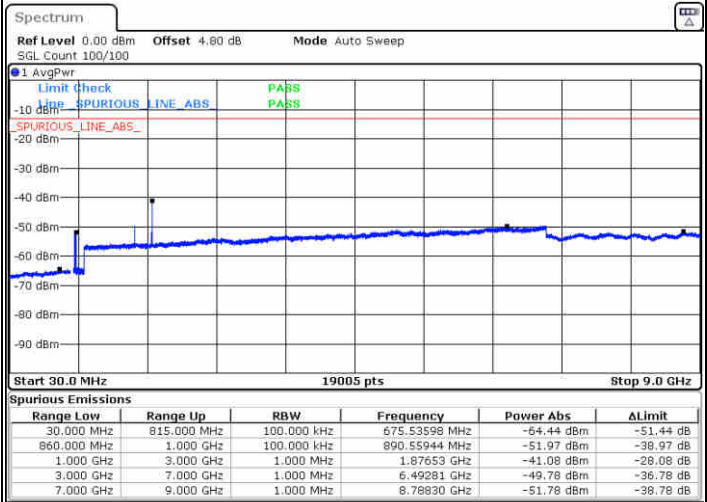
FR1 n5/ 20MHz / DFT-S OFDM / 64QAM

Lowest Channel / 1RB0



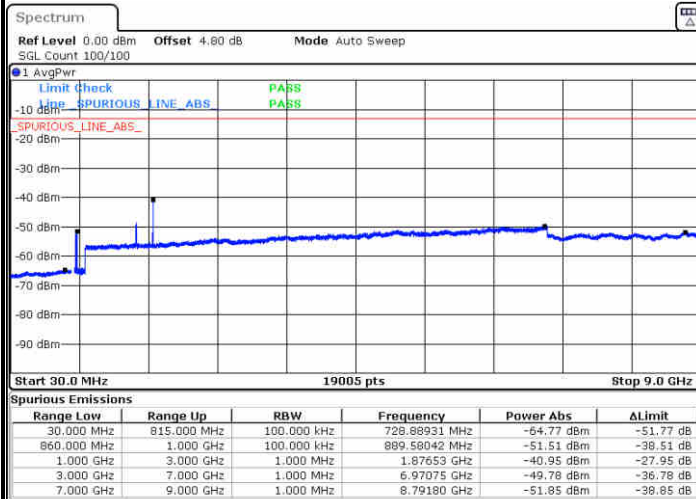
Date: 23 AUG 2020 01:12:21

Middle Channel / 1RB0



Date: 23 AUG 2020 01:25:50

Highest Channel / 1RB0

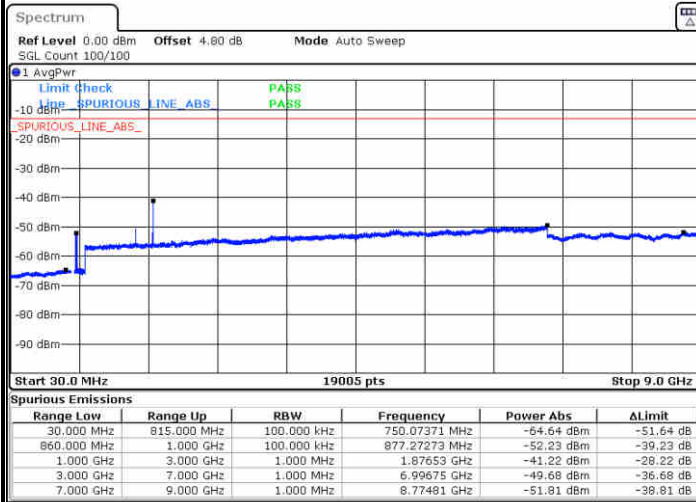


Date: 23 AUG 2020 01:28:18



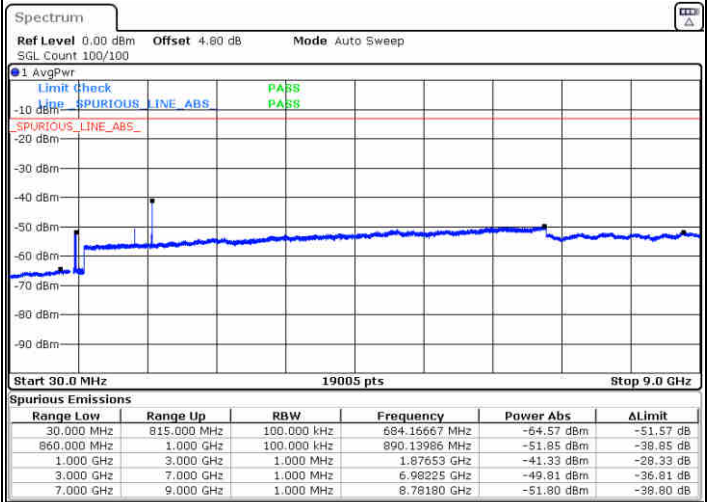
FR1 n5 / 20MHz / DFT-S OFDM / 256QAM

Lowest Channel / 1RB0



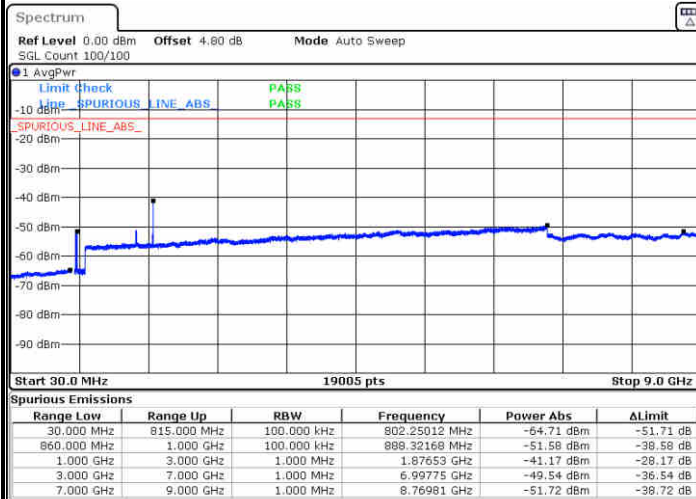
Date: 23 AUG 2020 01:09:02

Middle Channel / 1RB0



Date: 23 AUG 2020 01:26:44

Highest Channel / 1RB0



Date: 23 AUG 2020 01:27:40

Frequency Stability

Test Conditions		FR1 n5 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 20MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0006	PASS
40	Normal Voltage	0.0008	
30	Normal Voltage	0.0009	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0006	
0	Normal Voltage	0.0005	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0005	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0017	
20	Normal Voltage	0.0004	
20	Battery End Point	0.0009	

Note:

1. Normal Voltage =3.9 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.35 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



5G NR 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	3.57	4.09	5.36	5.68	PASS
Middle CH	3.42	4.20	5.30	5.74	
Highest CH	3.83	4.38	5.45	5.88	
Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	Full RB				Result
Lowest CH	6.17				PASS
Middle CH	6.23				
Highest CH	6.32				
Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	PI/2 BPSK	QPSK	16QAM	64QAM	Limit: 13dB
RB Size	1 RB0	1 RB0	1 RB0	1 RB0	Result
Lowest CH	4.26	3.68	4.55	5.30	PASS
Middle CH	4.29	4.20	4.55	5.30	
Highest CH	3.97	3.65	4.52	5.36	
Mode	FR1 n66 / 20MHz / DFT-S OFDM				
Mod.	256QAM				Limit: 13dB
RB Size	1 RB0				Result
Lowest CH	6.61				PASS
Middle CH	6.75				
Highest CH	6.84				



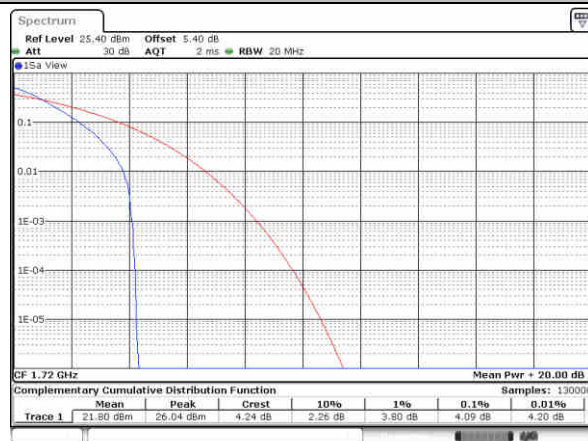
FR1 n66 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

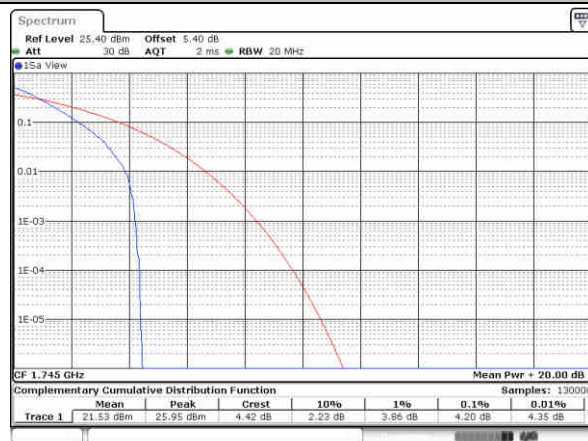
Lowest Channel / Full RB

Lowest Channel / Full RB



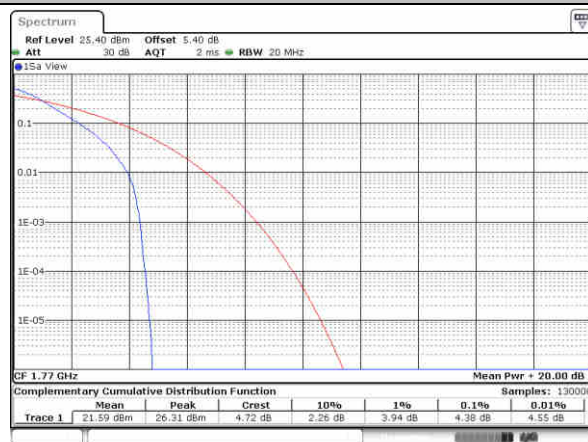
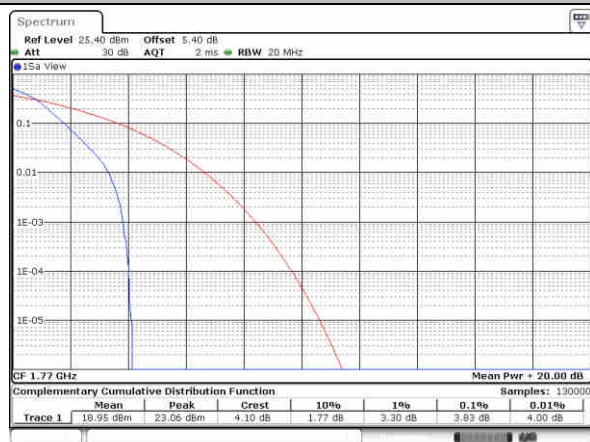
Middle Channel / Full RB

Middle Channel / Full RB



Highest Channel / Full RB

Highest Channel / Full RB





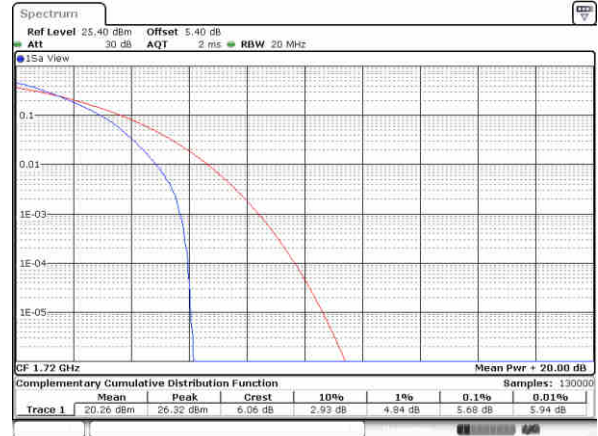
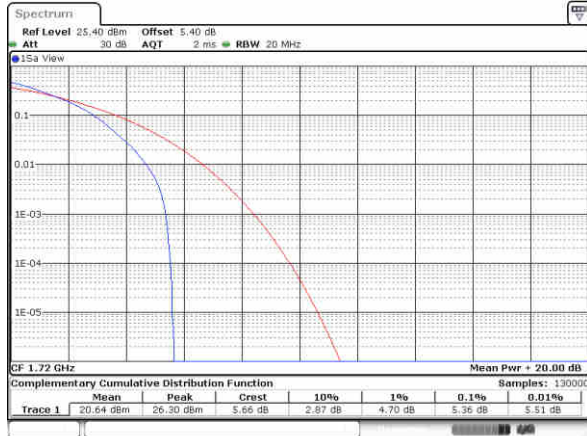
FR1 n66 / 20MHz / DFT-S OFDM

16QAM

64QAM

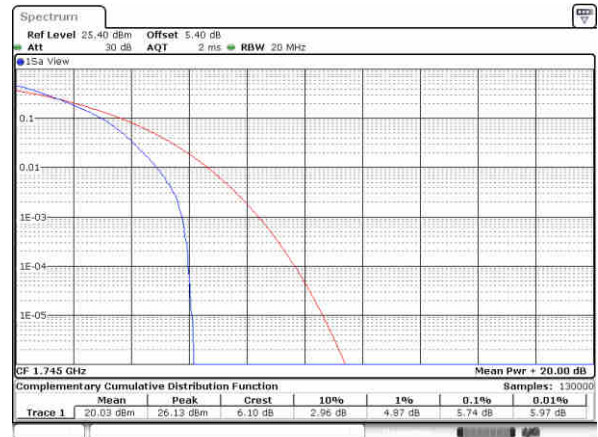
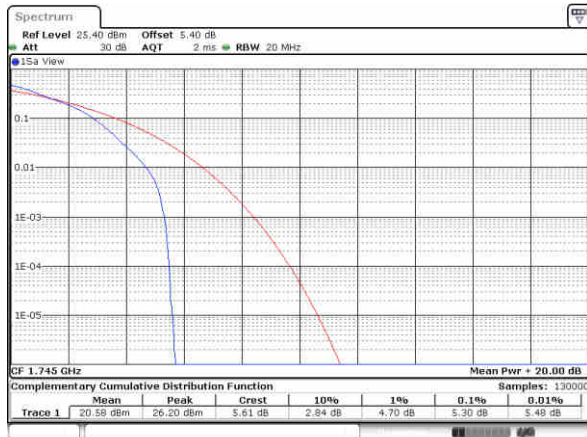
Lowest Channel / Full RB

Lowest Channel / Full RB



Middle Channel / Full RB

Middle Channel / Full RB



Highest Channel / Full RB

Highest Channel / Full RB

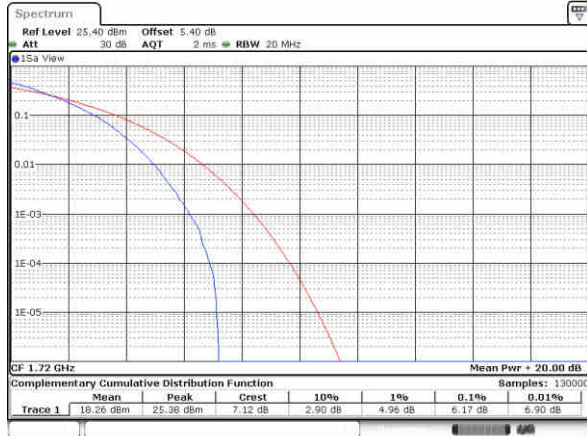




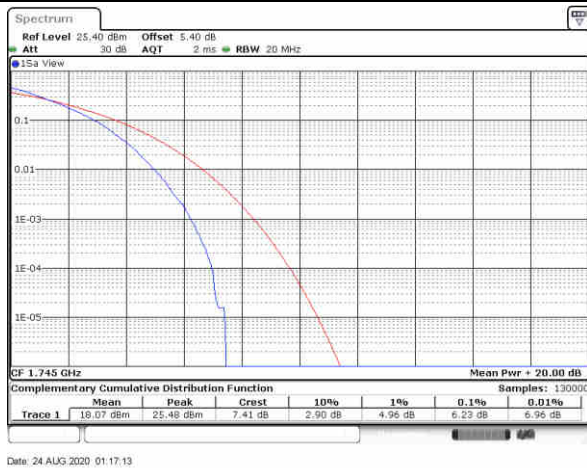
FR1 n66 / 20MHz / DFT-S OFDM

256QAM

Lowest Channel / Full RB



Middle Channel / Full RB



Highest Channel / Full RB





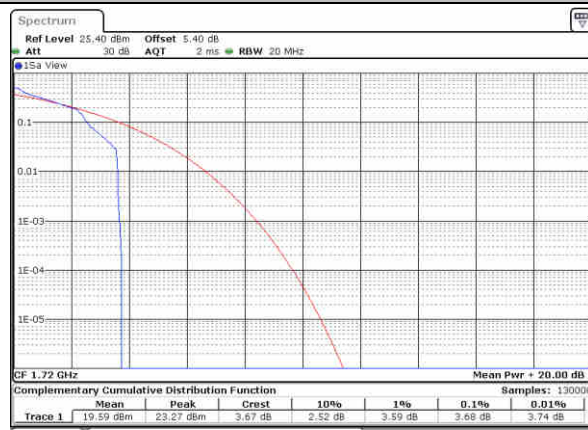
FR1 n66 / 20MHz / DFT-S OFDM

PI/2 BPSK

QPSK

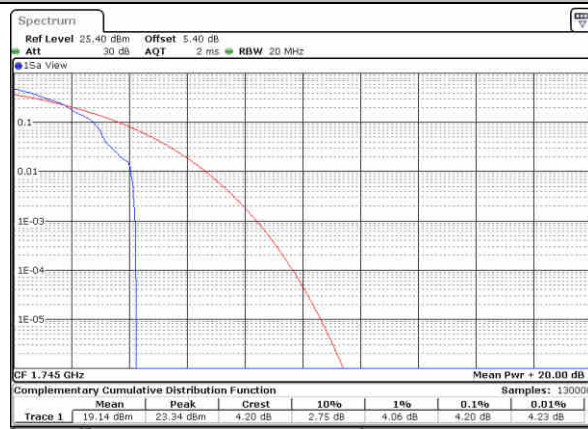
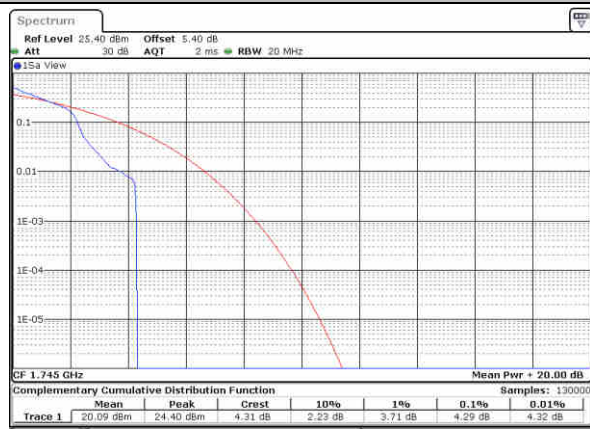
Lowest Channel / 1RB0

Lowest Channel / 1RB0



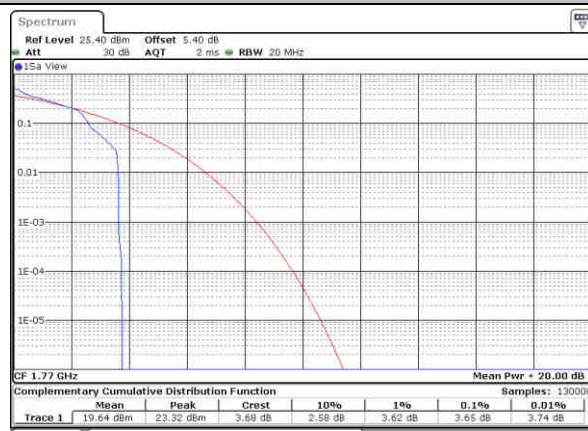
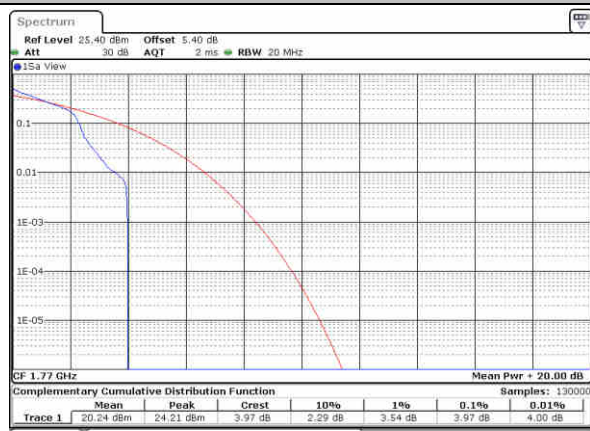
Middle Channel / 1RB0

Middle Channel / 1RB0



Highest Channel / 1RB0

Highest Channel / 1RB0





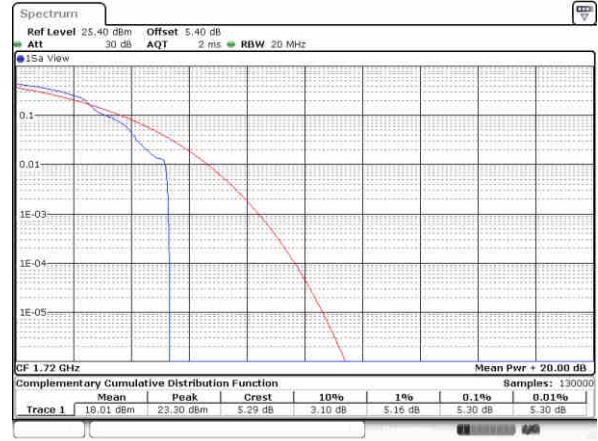
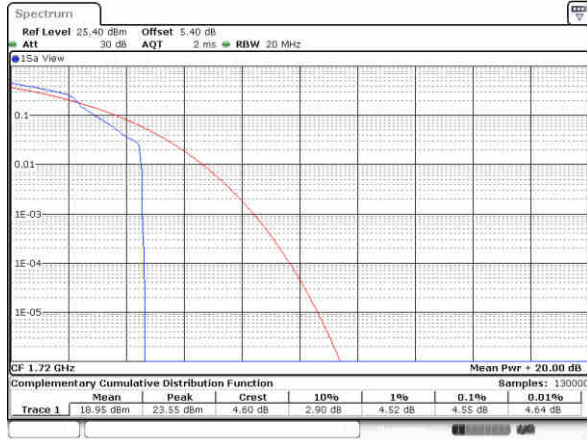
FR1 n66 / 20MHz / DFT-S OFDM

16QAM

64QAM

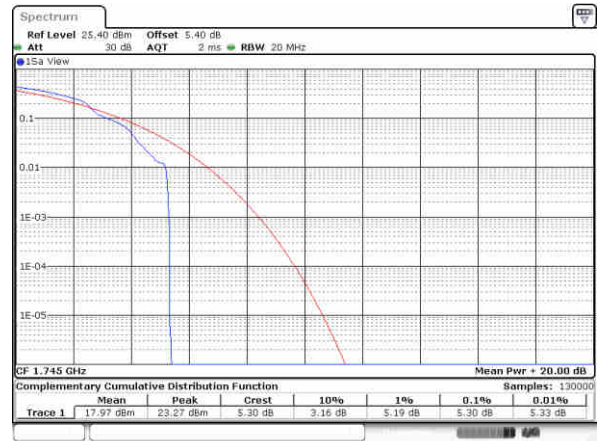
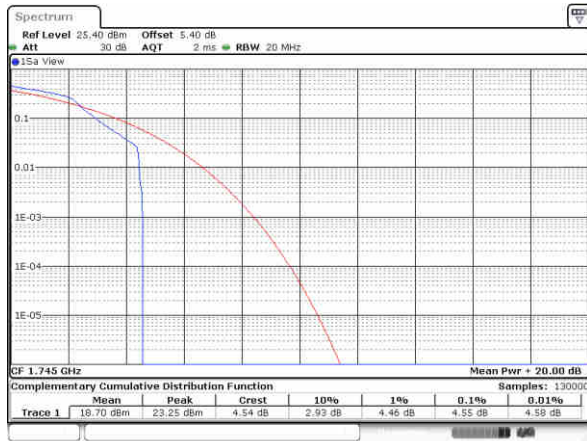
Lowest Channel / 1RB0

Lowest Channel / 1RB0



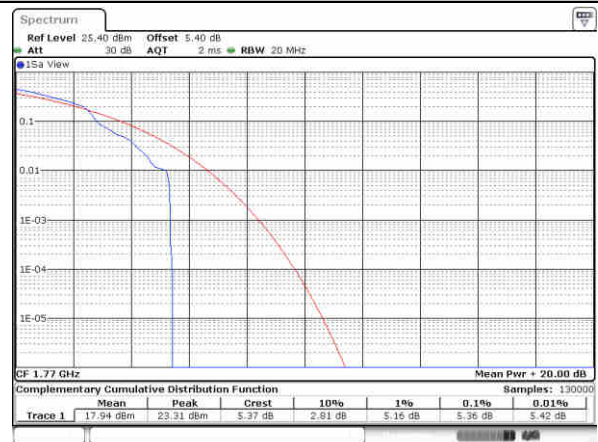
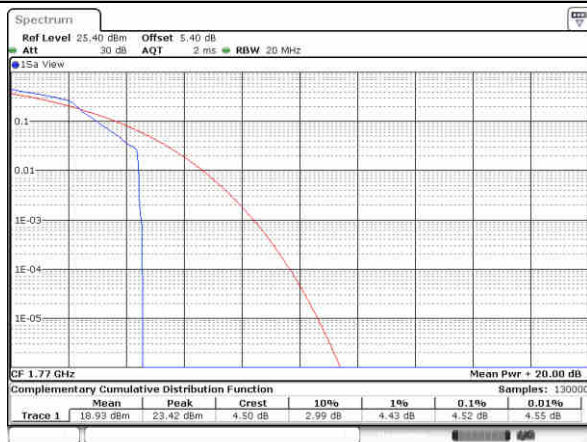
Middle Channel / 1RB0

Middle Channel / 1RB0



Highest Channel / 1RB0

Highest Channel / 1RB0

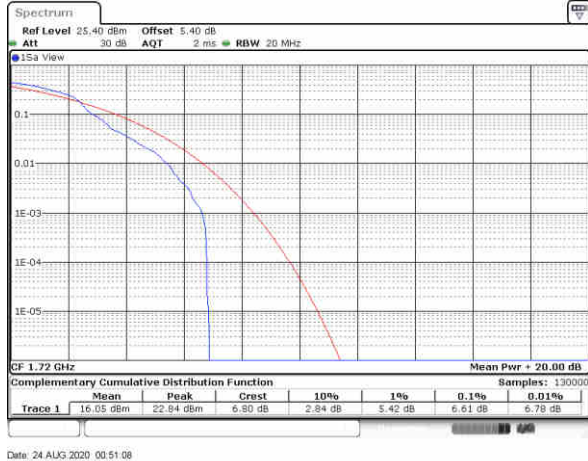




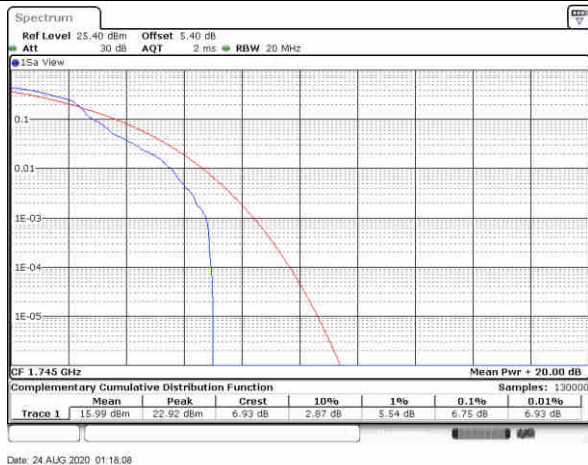
FR1 n66 / 20MHz / DFT-S OFDM

256QAM

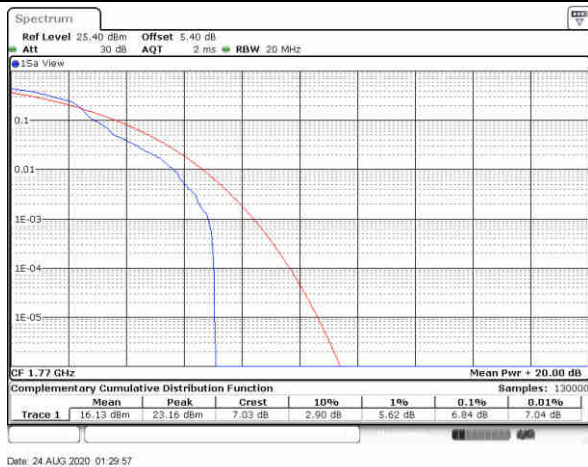
Lowest Channel / 1RB0



Middle Channel / 1RB0



Highest Channel / 1RB0



**26dB Bandwidth**

Mode	FR1 n66 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI / BPSK		PI / BPSK		PI / BPSK		PI / BPSK	
Lowest CH	5.22		9.65		14.27		20.02	
Middle CH	5.07		9.75		14.21		20.14	
Highest CH	5.20		9.79		14.48		20.18	

Mode	FR1 n66 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	5.12	5.03	9.89	9.81	14.51	14.62	20.26	20.30
Middle CH	5.01	5.17	9.83	9.89	14.56	14.36	20.18	20.34
Highest CH	4.92	5.21	9.91	9.83	14.18	14.54	20.18	20.34

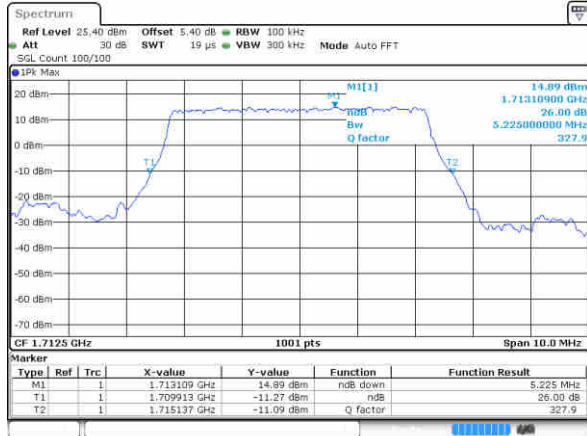
Mode	FR1 n66 : 26dB BW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	5.14	5.17	9.93	10.03	14.48	14.24	20.22	20.14
Middle CH	5.17	5.12	9.99	9.77	14.36	14.45	20.14	20.06
Highest CH	5.25	5.07	9.89	9.81	14.48	14.30	20.06	20.14



FR1 n66 / 5MHz / DFT-S OFDM

PI / BPSK

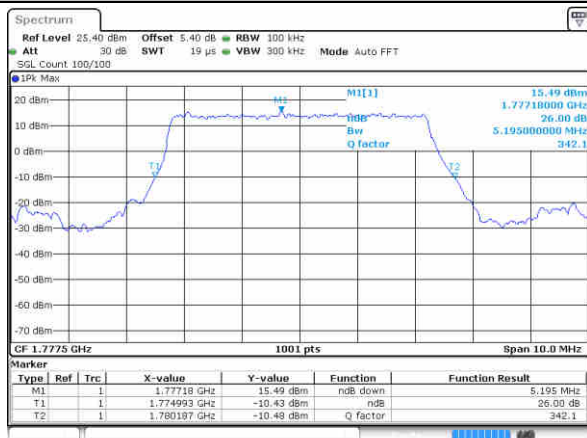
Lowest Channel



Middle Channel



Highest Channel

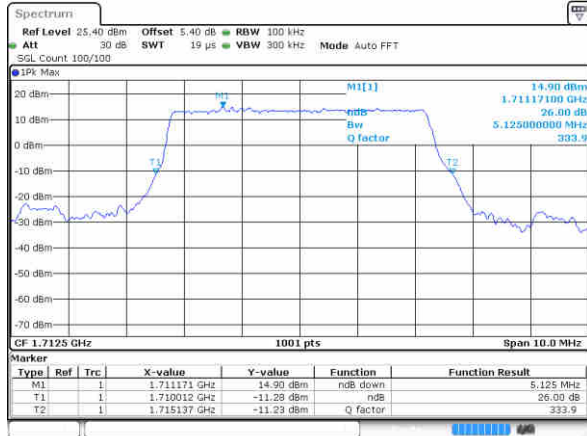




FR1 n66 / 5MHz / DFT-S OFDM

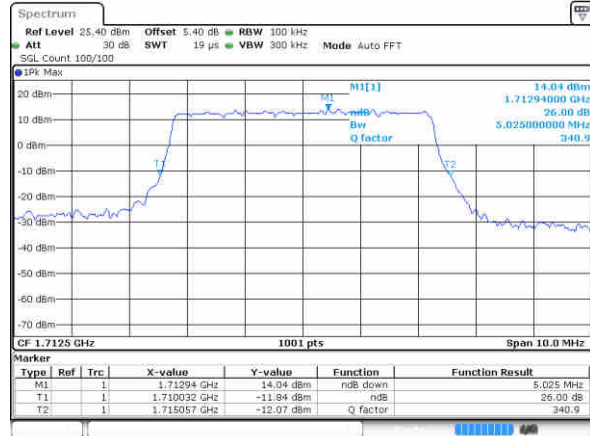
QPSK

Lowest Channel

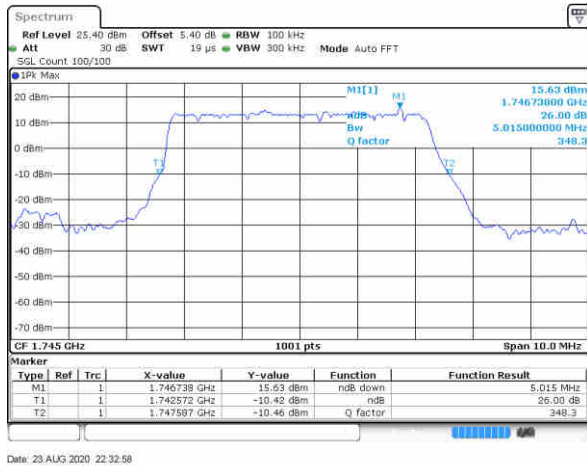


16QAM

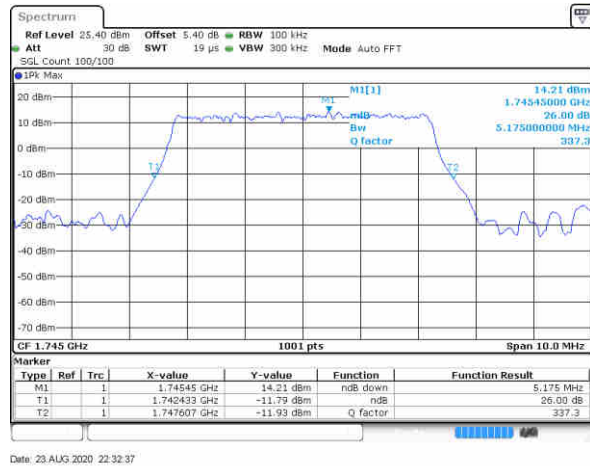
Lowest Channel



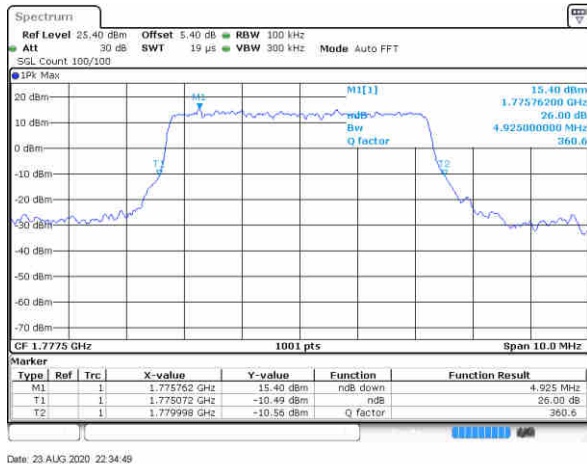
Middle Channel



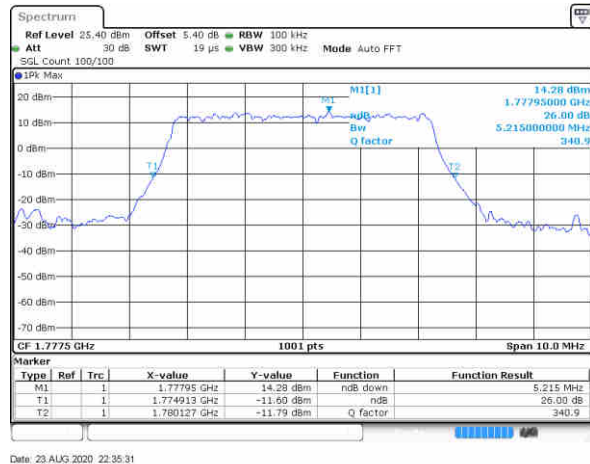
Middle Channel



Highest Channel



Highest Channel

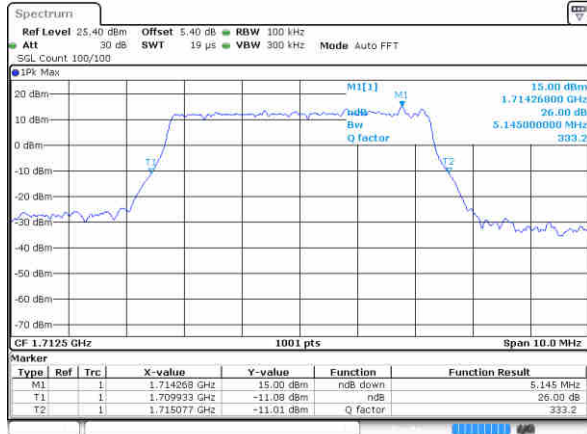




FR1 n66 / 5MHz / DFT-S OFDM

64QAM

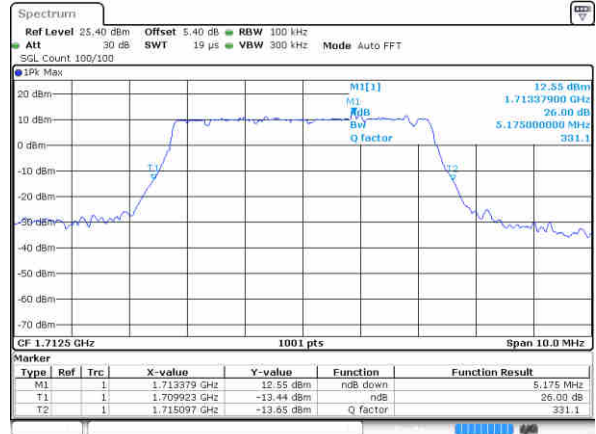
Lowest Channel



Date: 23 AUG 2020 22:07:01

256QAM

Lowest Channel



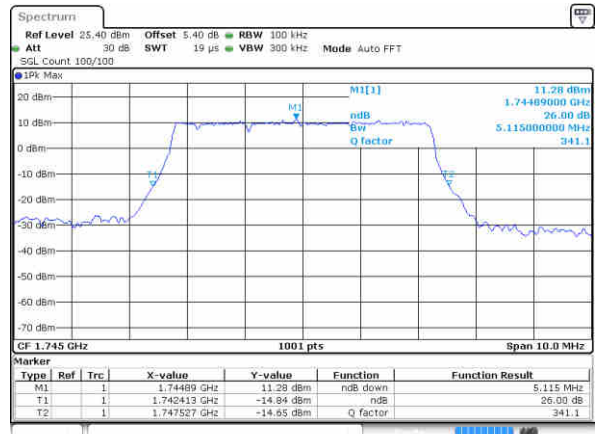
Date: 23 AUG 2020 22:07:47

Middle Channel



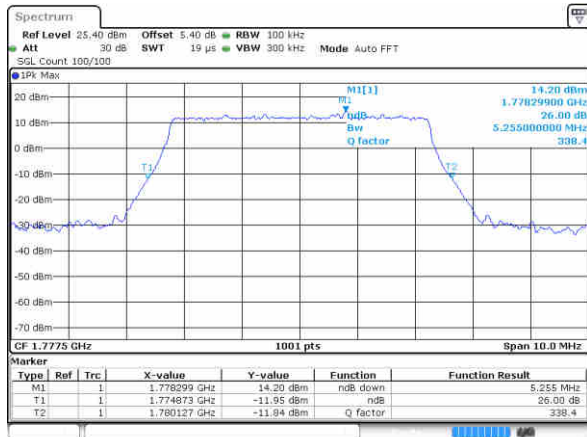
Date: 23 AUG 2020 22:32:15

Middle Channel



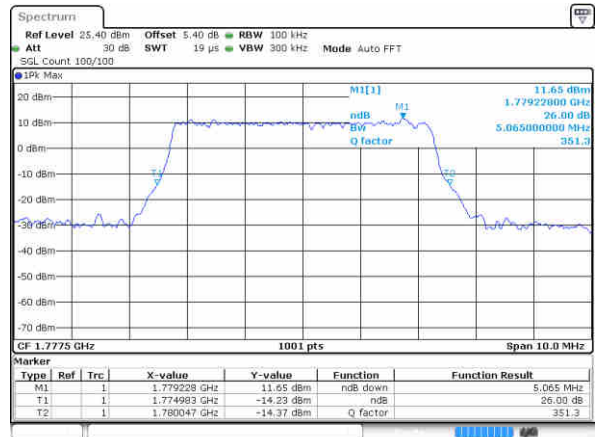
Date: 23 AUG 2020 22:31:50

Highest Channel



Date: 23 AUG 2020 22:36:11

Highest Channel



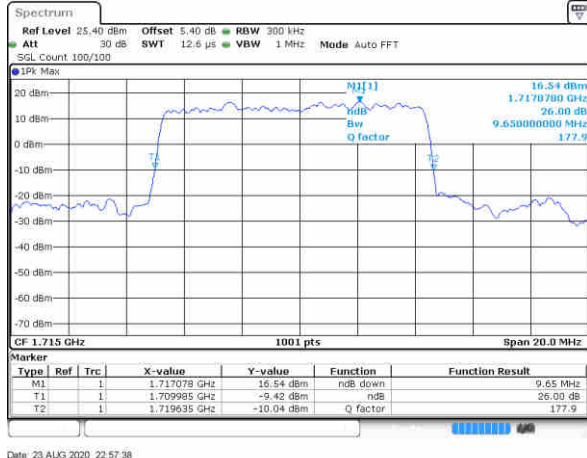
Date: 23 AUG 2020 22:36:55



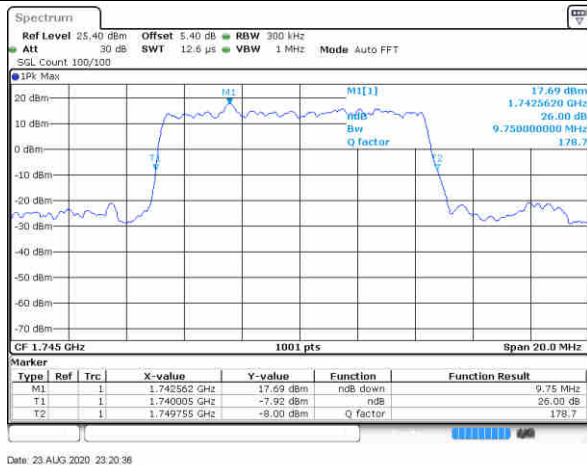
FR1 n66 / 10MHz / DFT-S OFDM

PI / BPSK

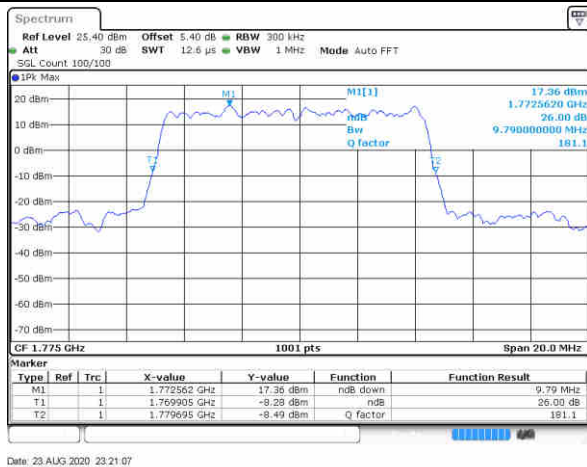
Lowest Channel



Middle Channel



Highest Channel

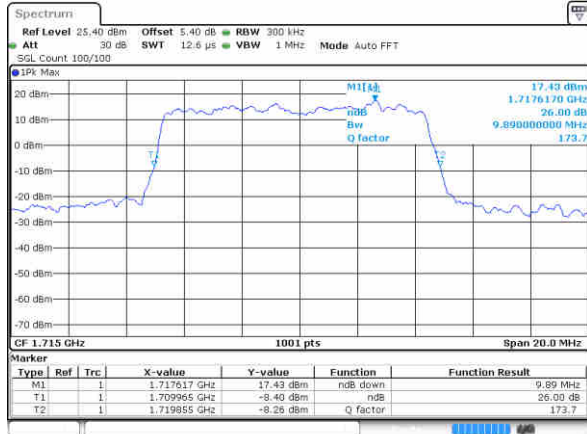




FR1 n66 / 10MHz / DFT-S OFDM

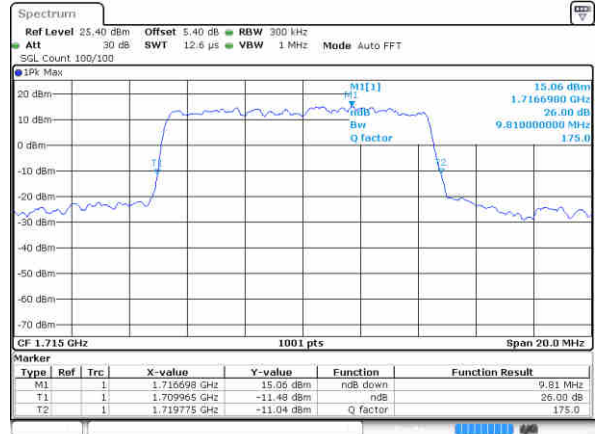
QPSK

Lowest Channel

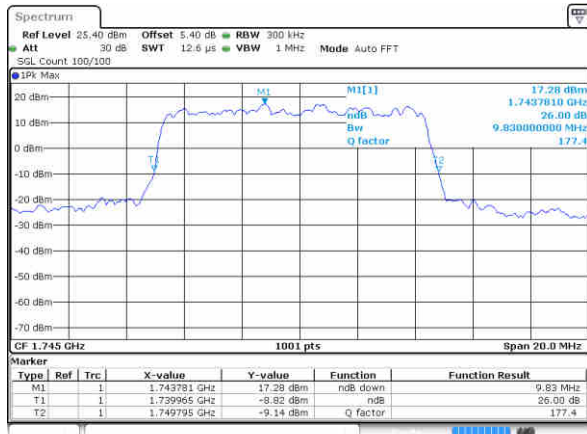


16QAM

Lowest Channel



Middle Channel



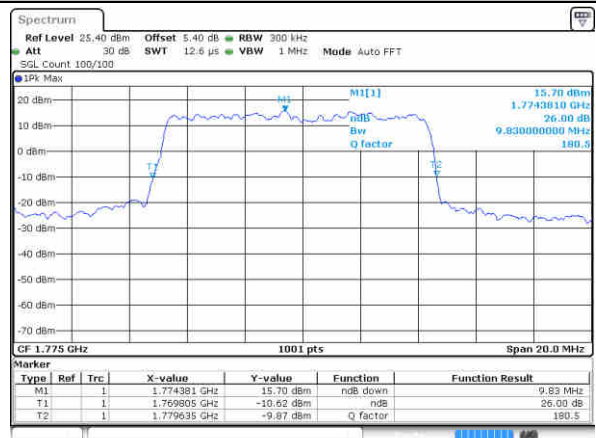
Middle Channel



Highest Channel



Highest Channel

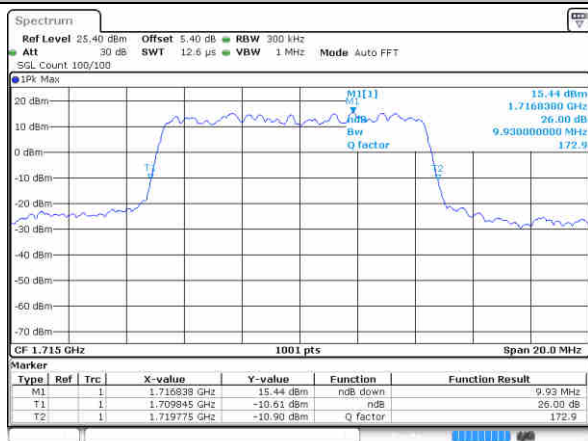




FR1 n66 / 10MHz / DFT-S OFDM

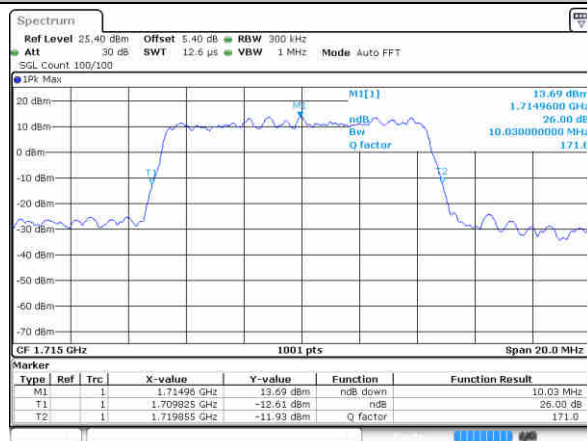
64QAM

Lowest Channel

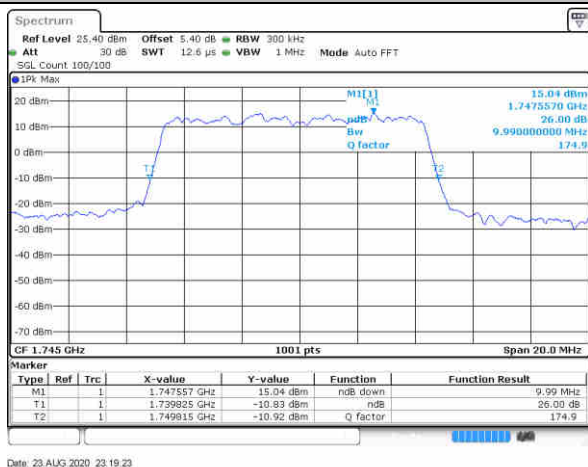


256QAM

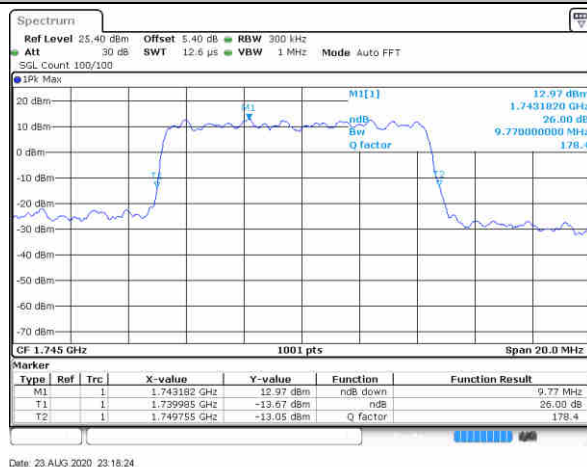
Lowest Channel



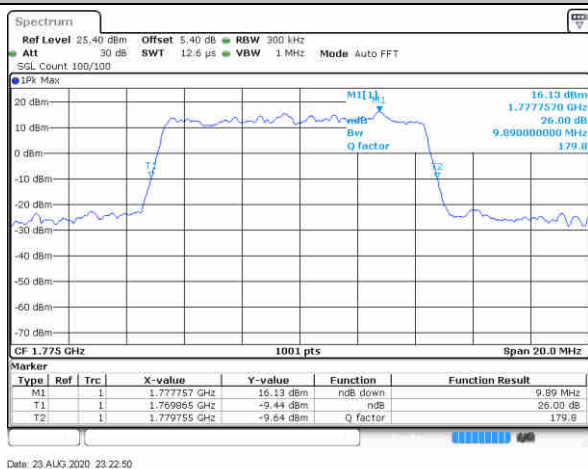
Middle Channel



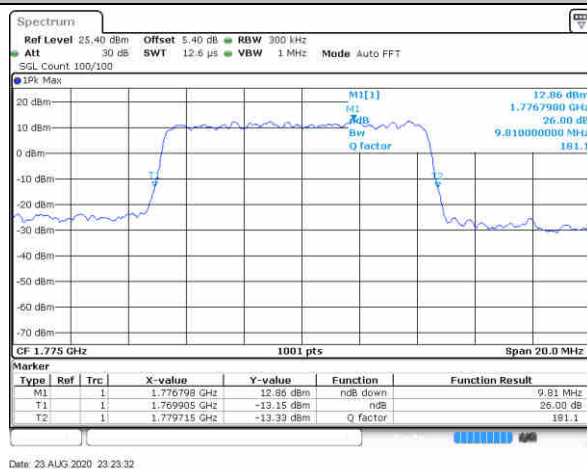
Middle Channel



Highest Channel



Highest Channel

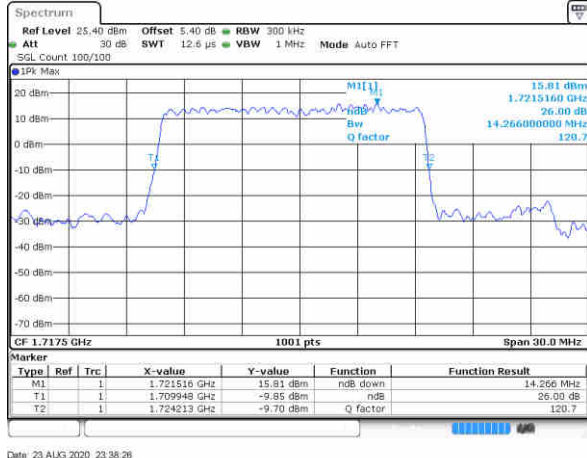




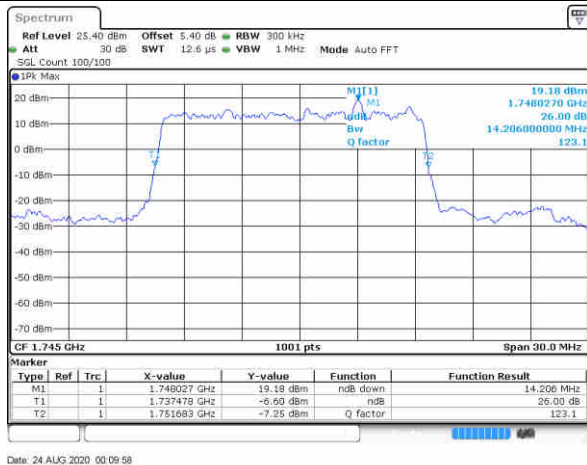
FR1 n66 / 15MHz / DFT-S OFDM

PI / BPSK

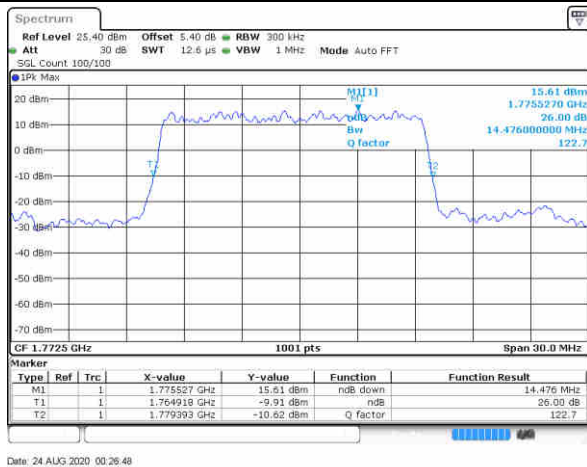
Lowest Channel



Middle Channel



Highest Channel





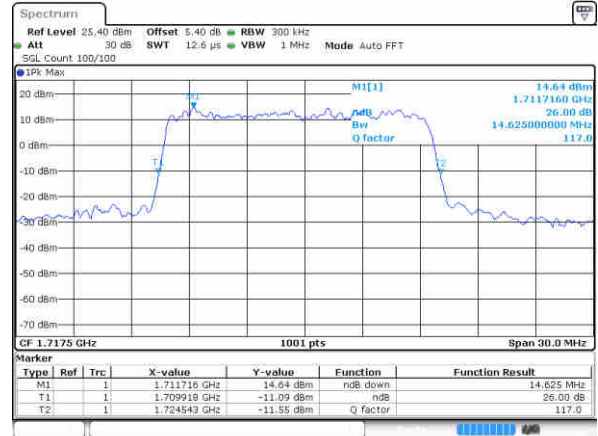
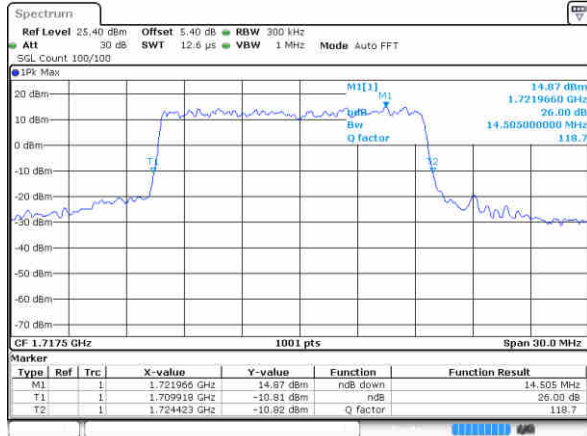
FR1 n66 / 15MHz / DFT-S OFDM

QPSK

16QAM

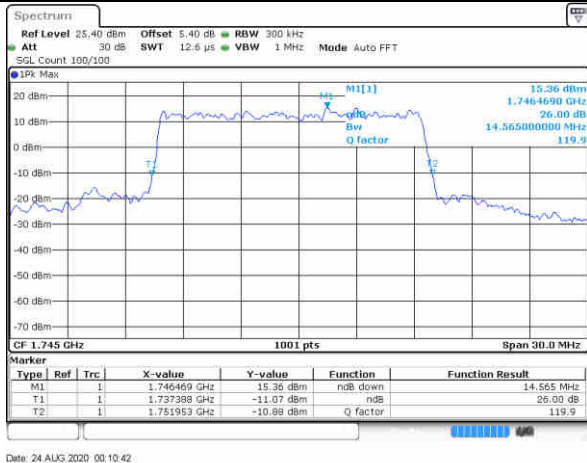
Lowest Channel

Lowest Channel



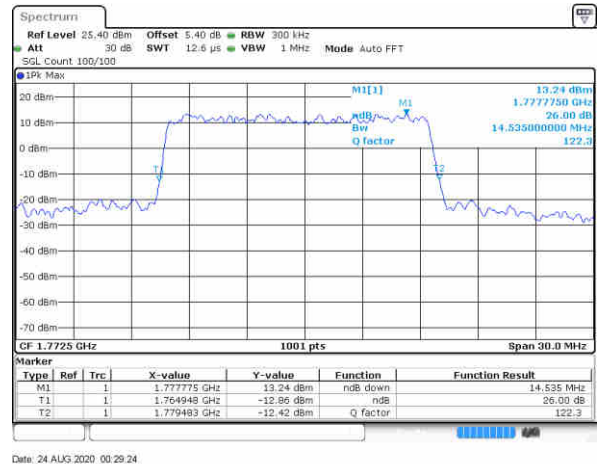
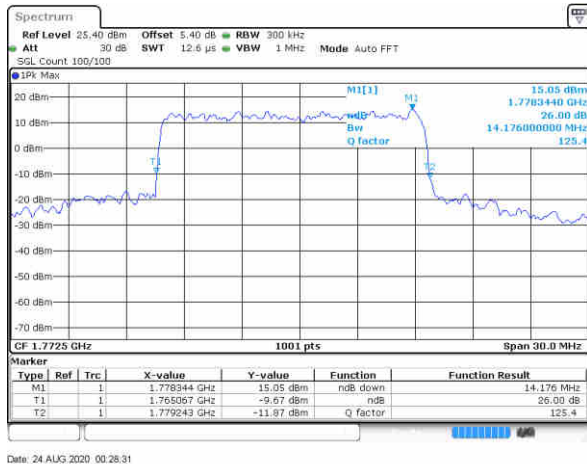
Middle Channel

Middle Channel



Highest Channel

Highest Channel

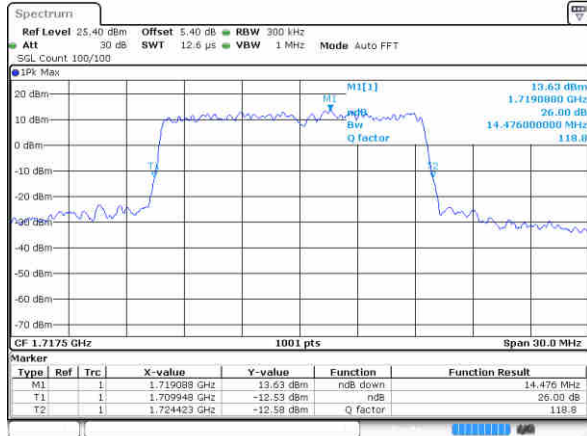




FR1 n66 / 15MHz / DFT-S OFDM

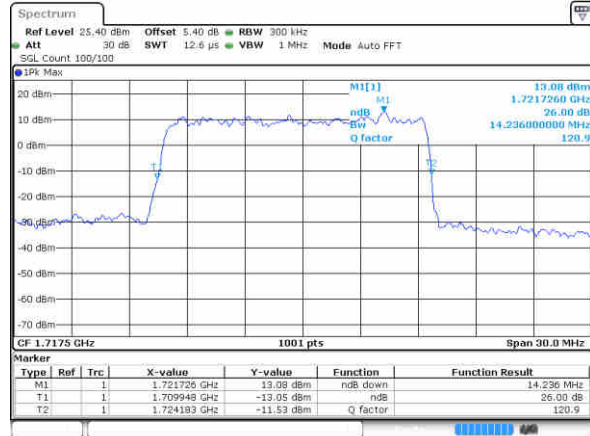
64QAM

Lowest Channel

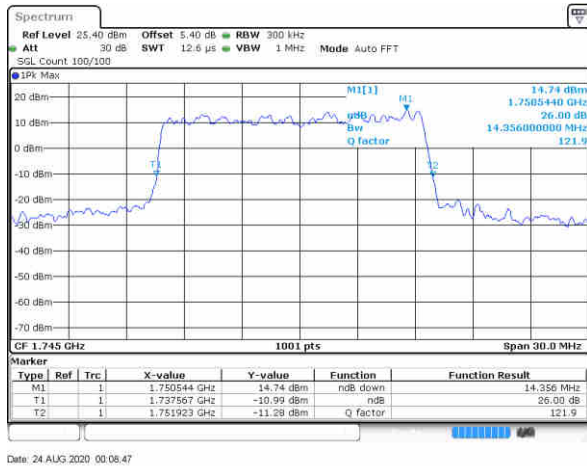


256QAM

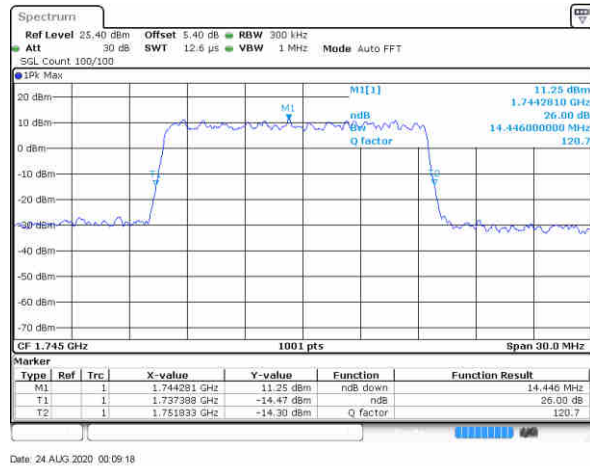
Lowest Channel



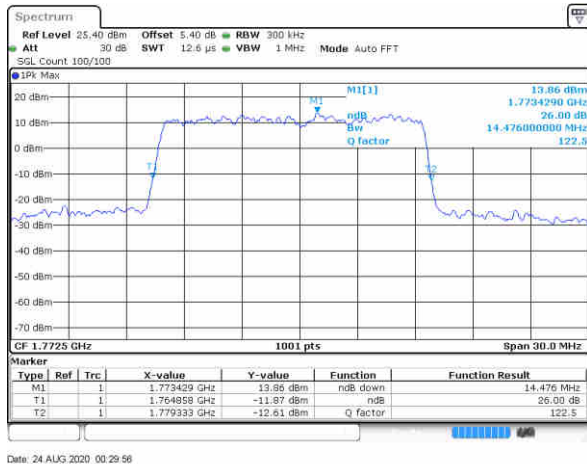
Middle Channel



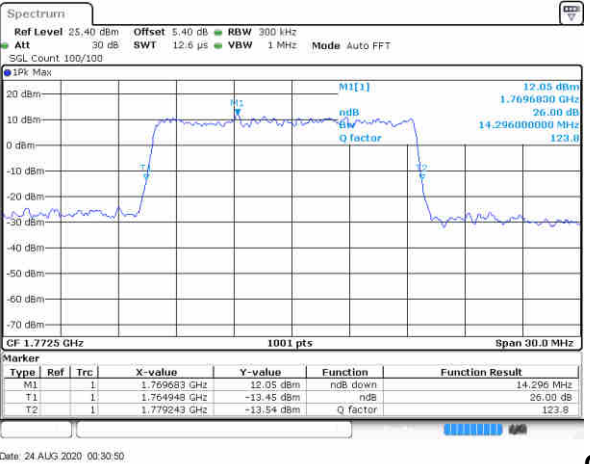
Middle Channel



Highest Channel



Highest Channel

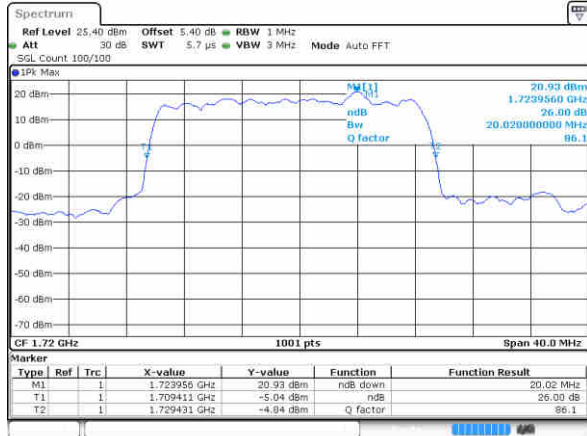




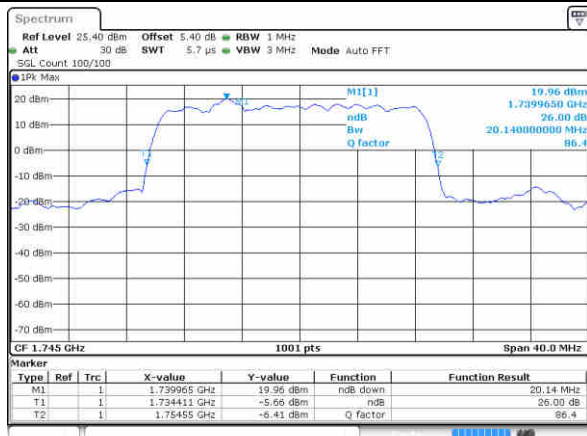
FR1 n66 / 20MHz / DFT-S OFDM

PI / BPSK

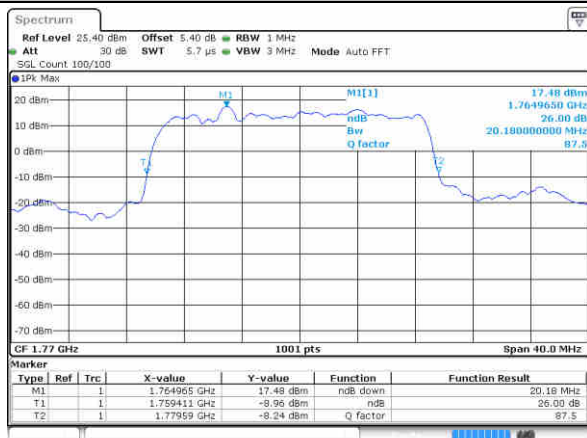
Lowest Channel



Middle Channel



Highest Channel

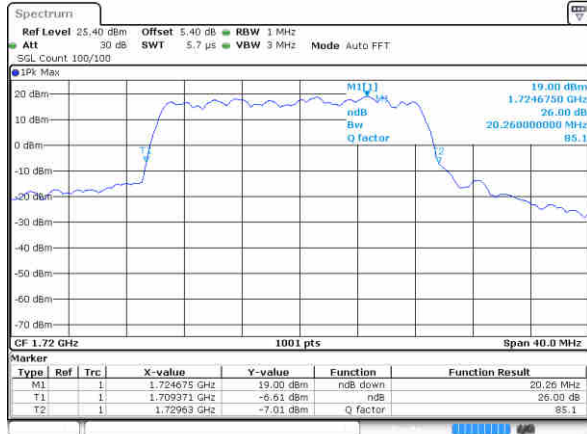




FR1 n66 / 20MHz / DFT-S OFDM

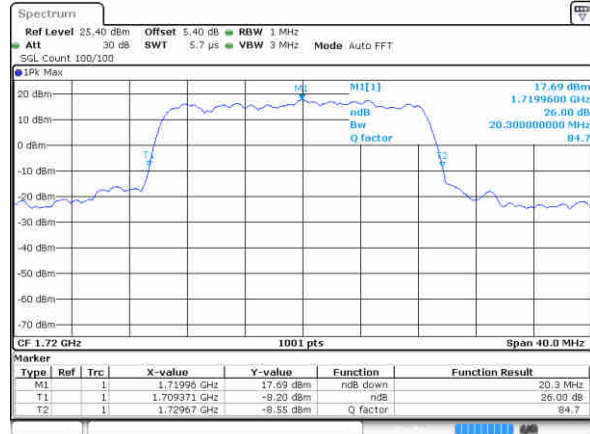
QPSK

Lowest Channel



16QAM

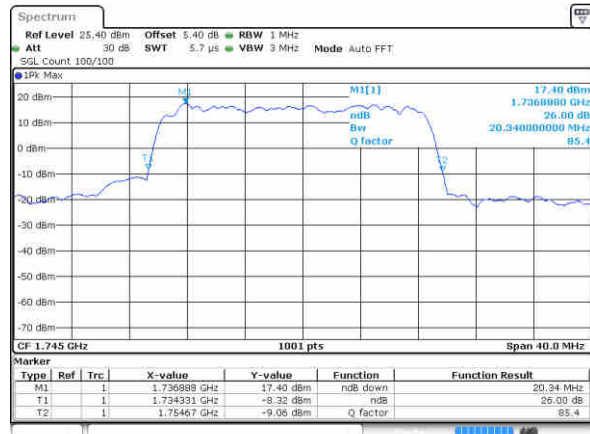
Lowest Channel



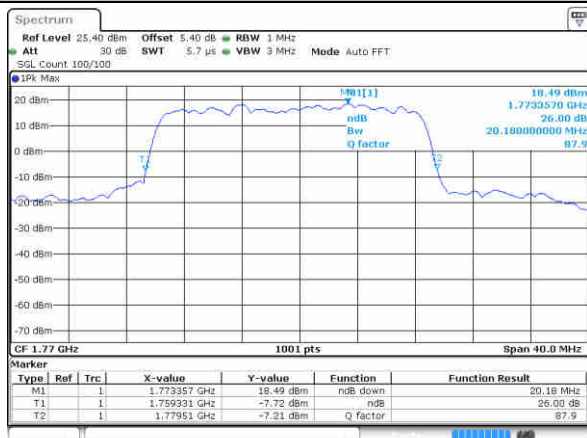
Middle Channel



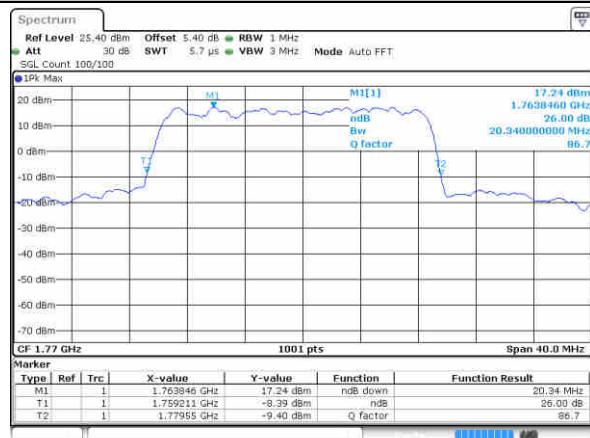
Middle Channel



Highest Channel



Highest Channel

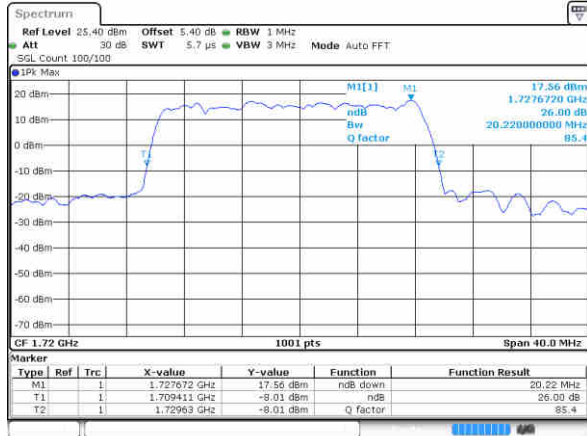




FR1 n66 / 20MHz / DFT-S OFDM

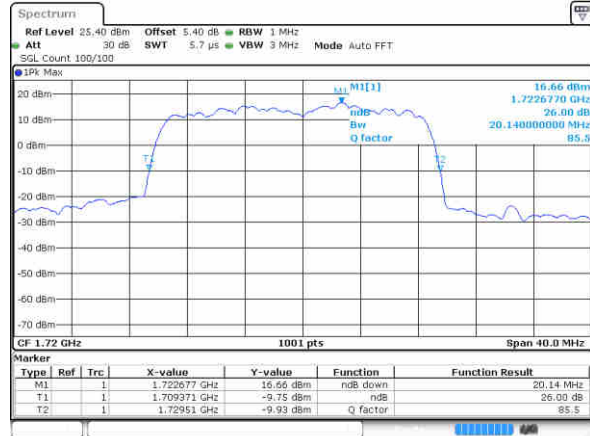
64QAM

Lowest Channel

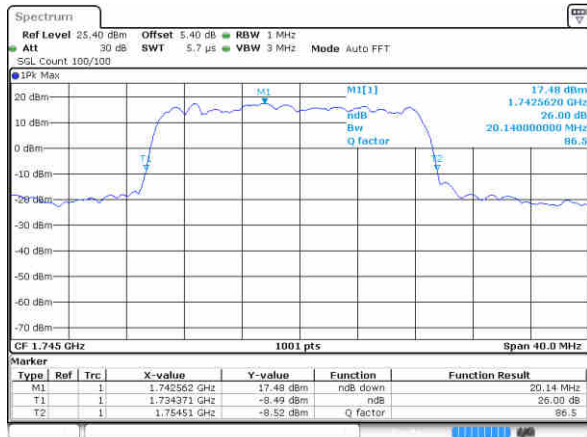


256QAM

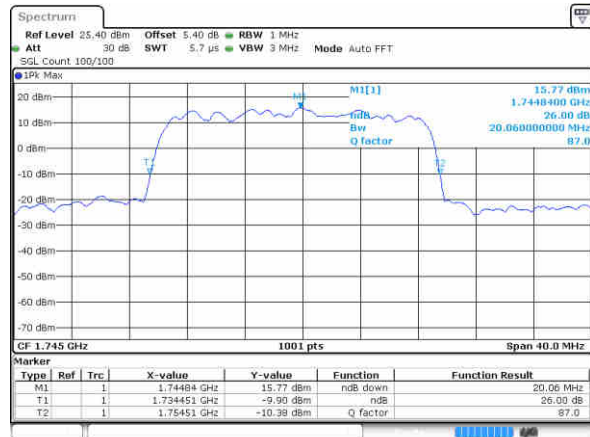
Lowest Channel



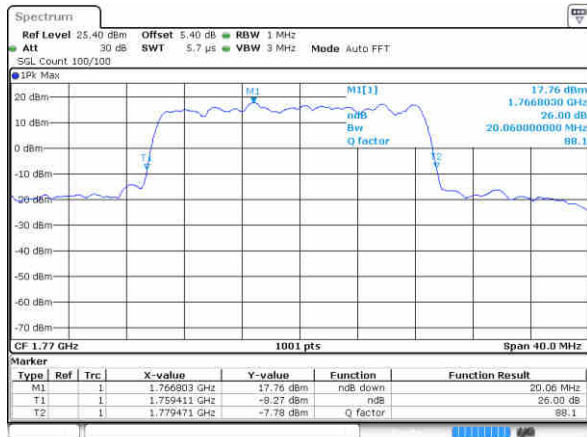
Middle Channel



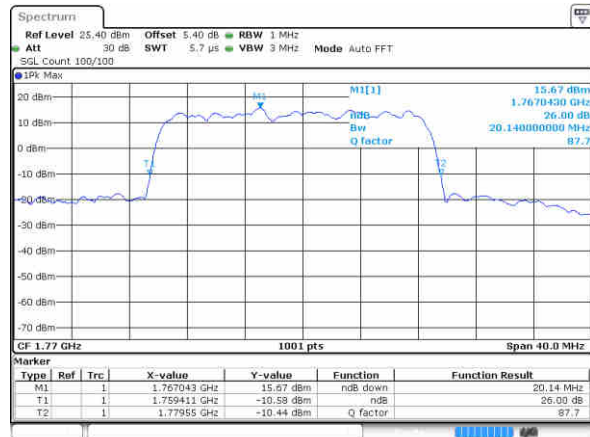
Middle Channel



Highest Channel



Highest Channel



**Occupied Bandwidth**

Mode	FR1 n66 : 99%OBW(MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	PI / BPSK		PI / BPSK		PI / BPSK		PI / BPSK	
Lowest CH	4.50		9.03		13.43		18.46	
Middle CH	4.47		9.05		13.46		18.26	
Highest CH	4.49		9.03		13.43		18.34	

Mode	FR1 n66 : 99%OBW (MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Lowest CH	4.51	4.49	9.05	9.07	13.52	13.49	18.38	18.34
Middle CH	4.50	4.47	8.99	9.05	13.55	13.49	18.22	18.58
Highest CH	4.49	4.49	9.03	9.05	13.55	13.46	18.22	18.30

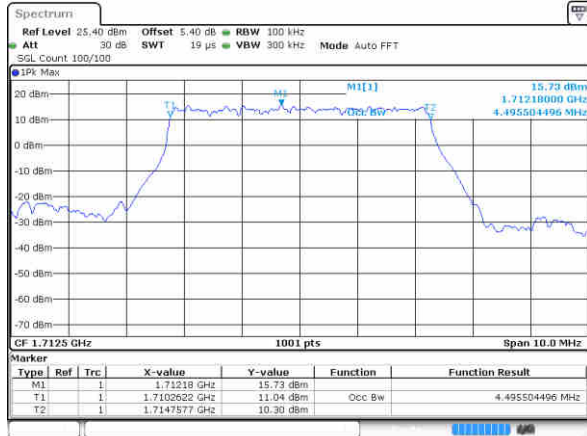
Mode	FR1 n66 : 99%OBW (MHz) / DFT-S OFDM							
BW	5MHz		10MHz		15MHz		20MHz	
Mod.	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM	64QAM	256QAM
Lowest CH	4.51	4.48	9.03	9.03	13.49	13.49	18.30	18.38
Middle CH	4.49	4.49	9.03	9.03	13.46	13.49	18.46	18.30
Highest CH	4.49	4.48	9.03	9.07	13.49	13.43	18.38	18.26



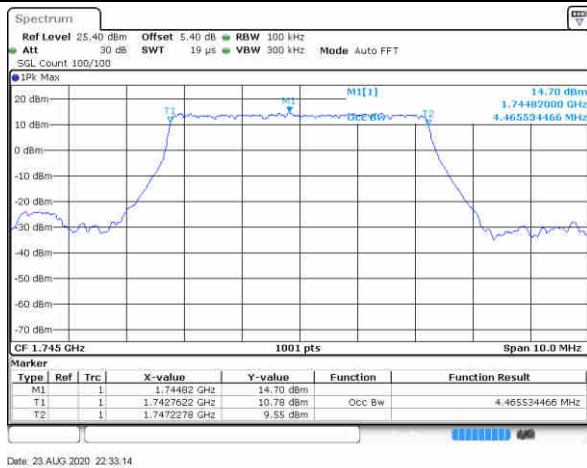
FR1 n66 / 5MHz / DFT-S OFDM

PI / BPSK

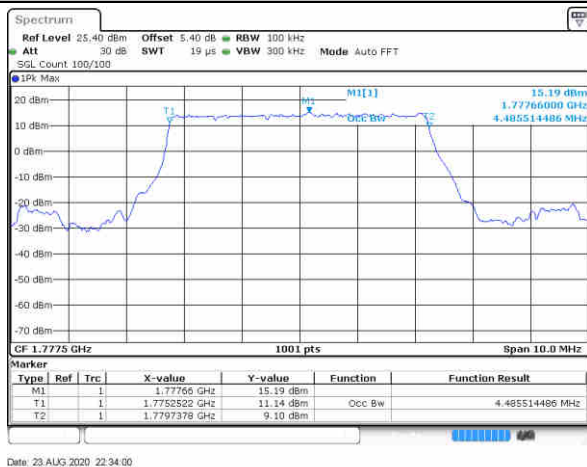
Lowest Channel



Middle Channel



Highest Channel

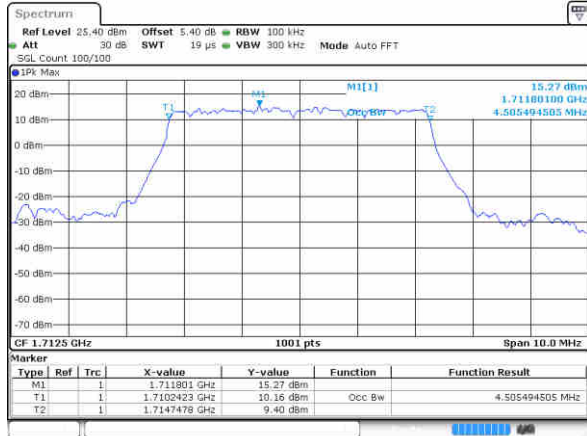




FR1 n66 / 5MHz / DFT-S OFDM

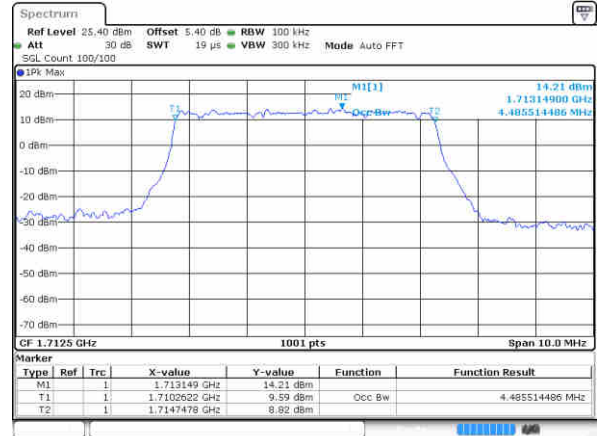
QPSK

Lowest Channel

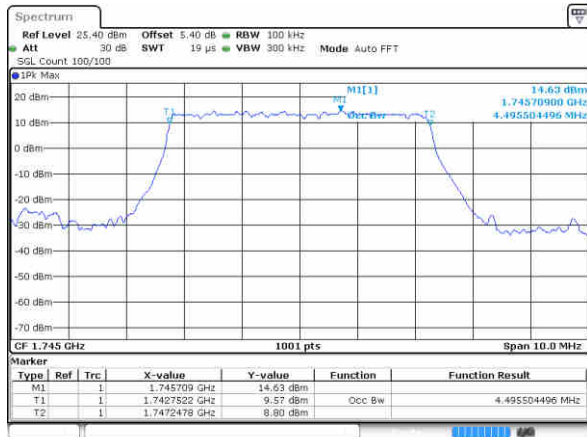


16QAM

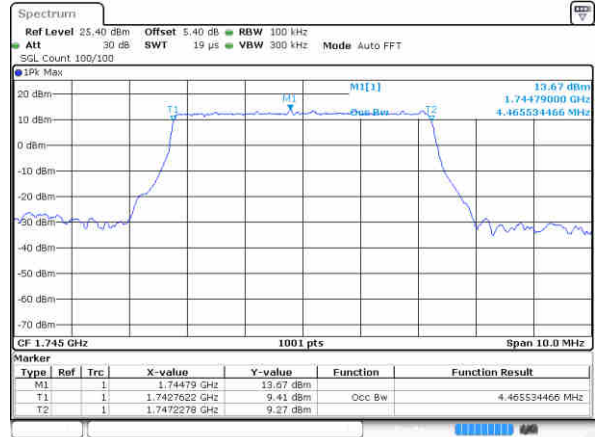
Lowest Channel



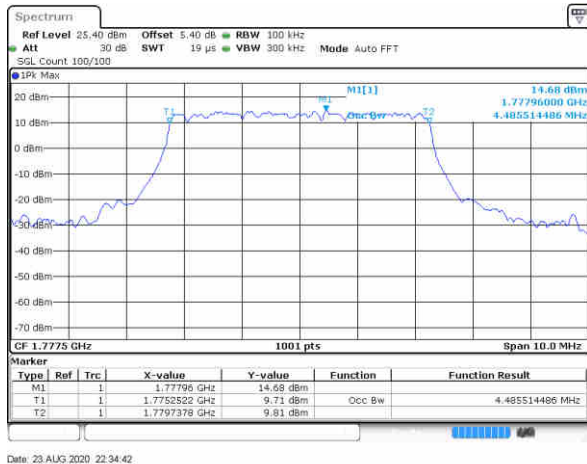
Middle Channel



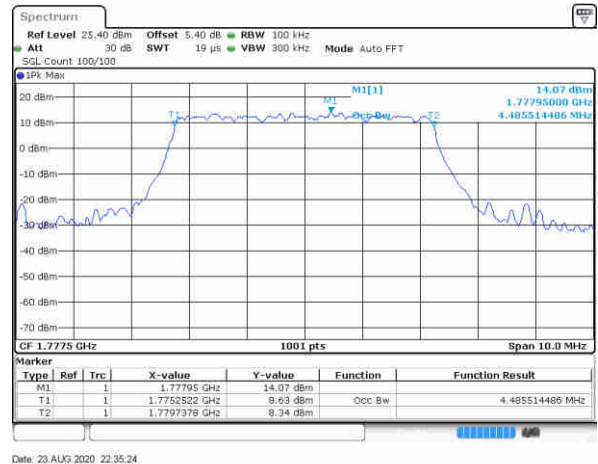
Middle Channel



Highest Channel



Highest Channel

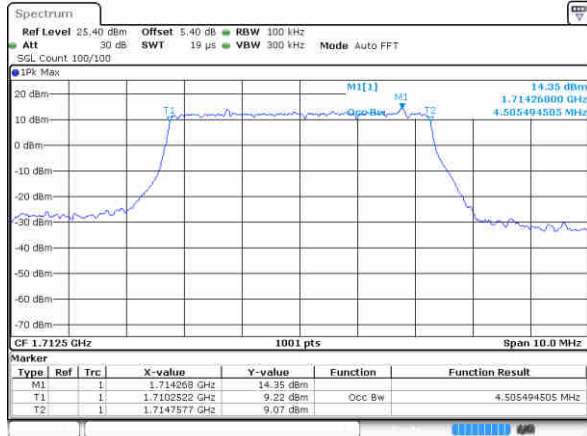




FR1 n66 / 5MHz / DFT-S OFDM

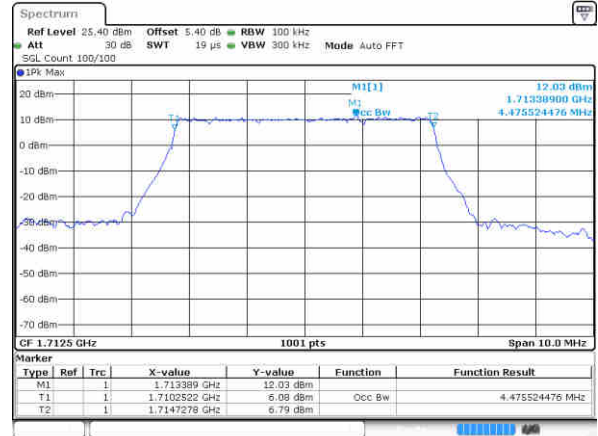
64QAM

Lowest Channel

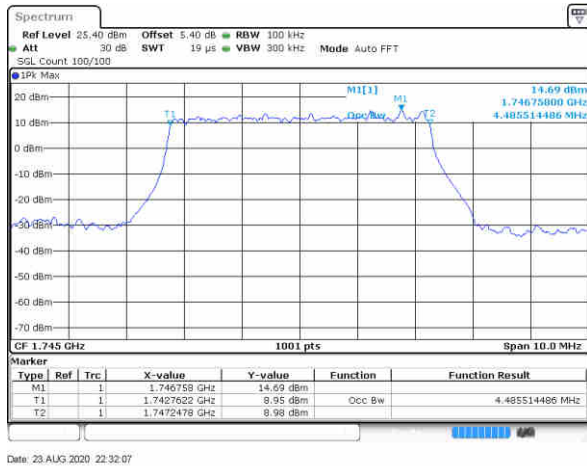


256QAM

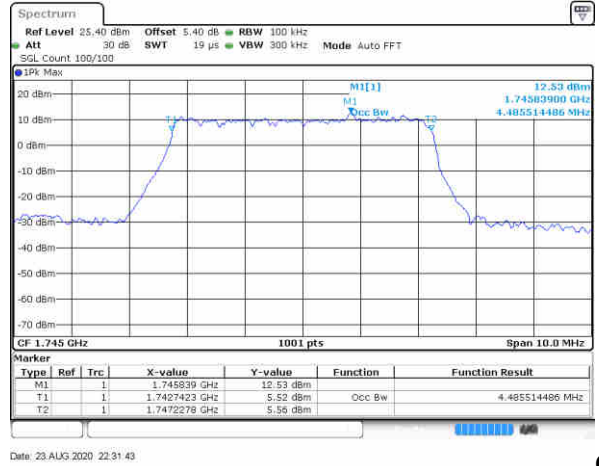
Lowest Channel



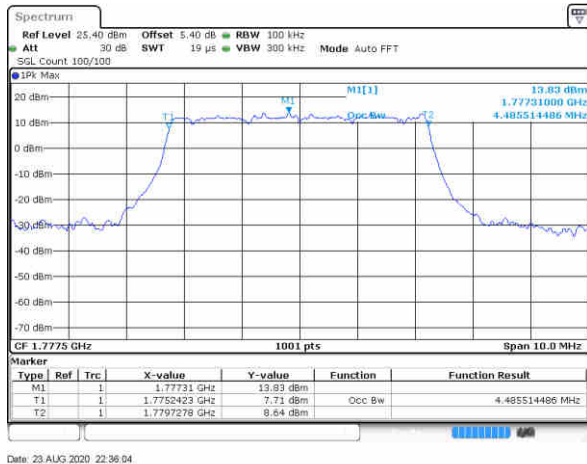
Middle Channel



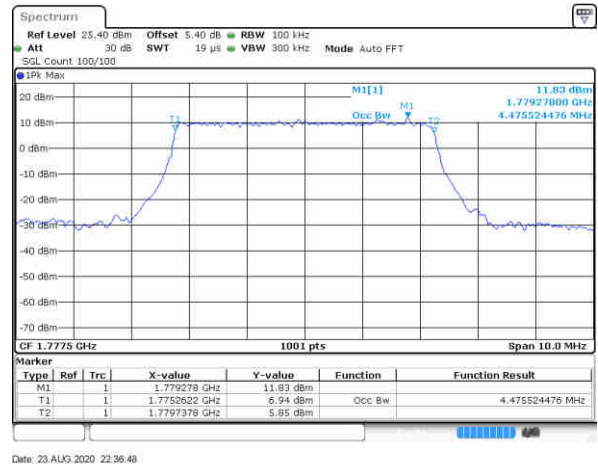
Middle Channel



Highest Channel



Highest Channel

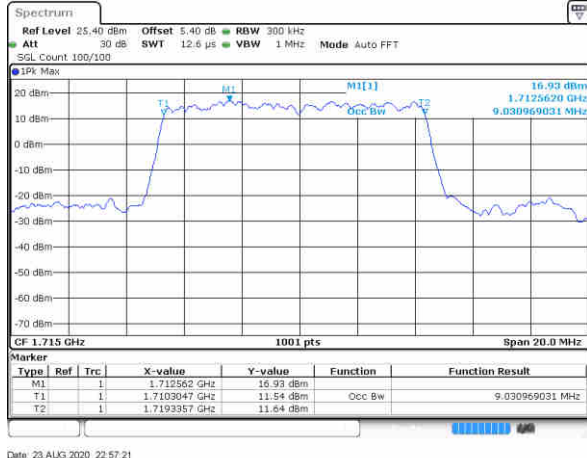




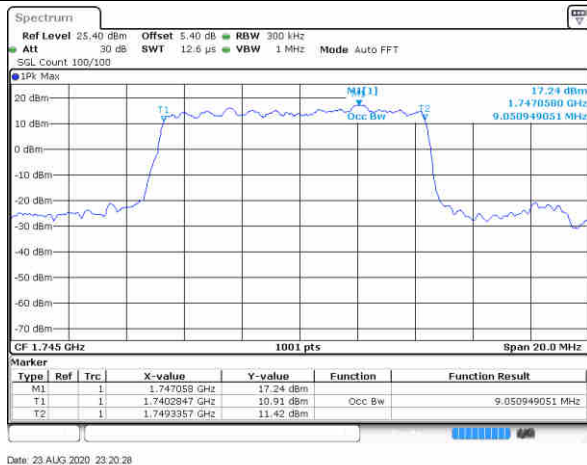
FR1 n66 / 10MHz / DFT-S OFDM

PI / BPSK

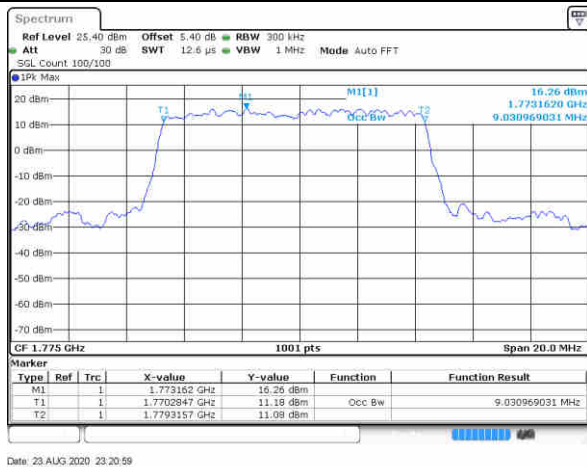
Lowest Channel



Middle Channel



Highest Channel

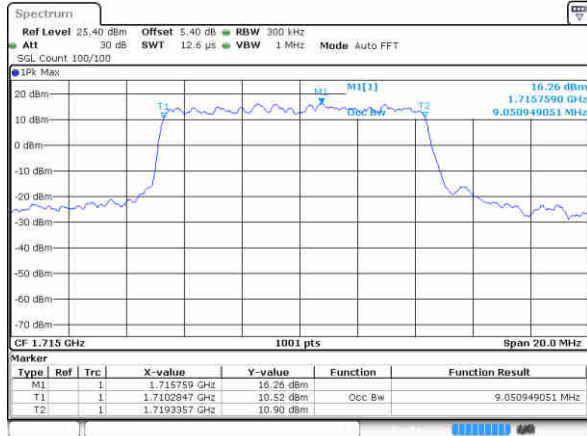




FR1 n66 / 10MHz / DFT-S OFDM

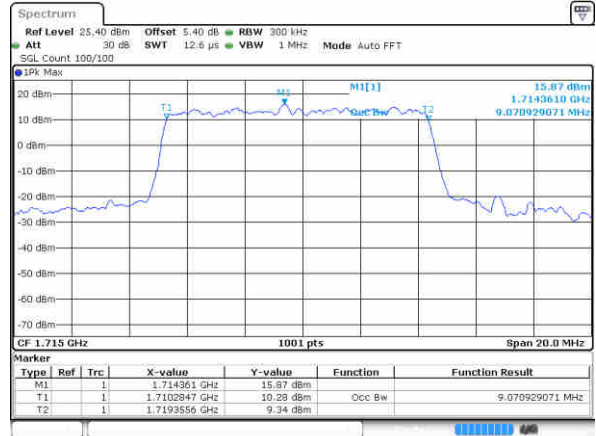
QPSK

Lowest Channel

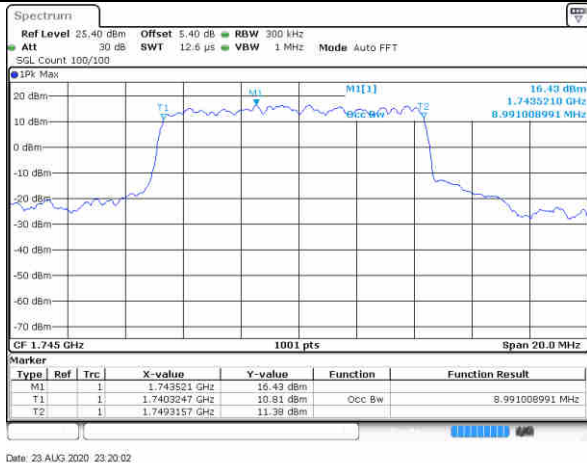


16QAM

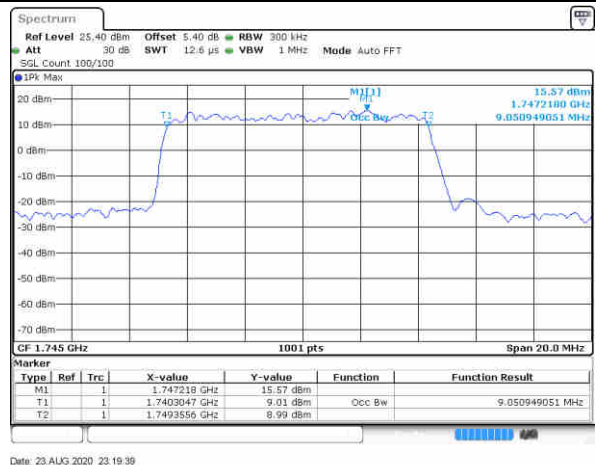
Lowest Channel



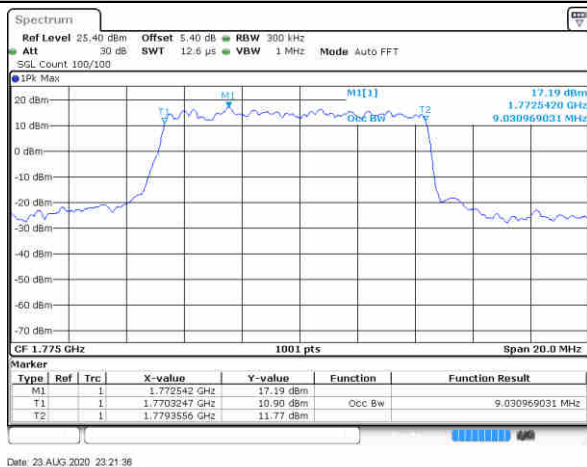
Middle Channel



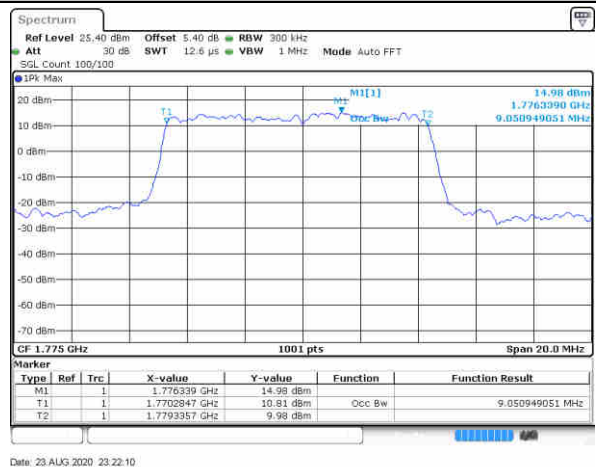
Middle Channel



Highest Channel



Highest Channel

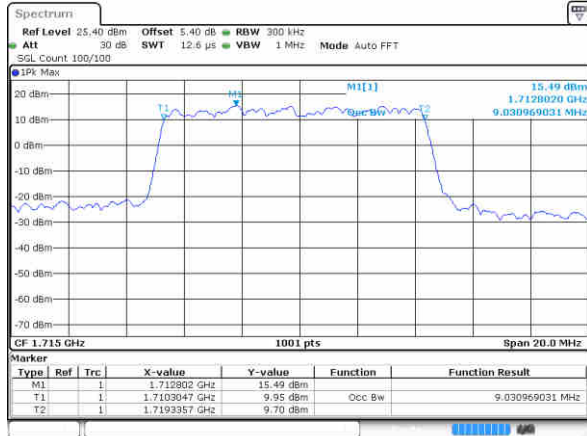




FR1 n66 / 10MHz / DFT-S OFDM

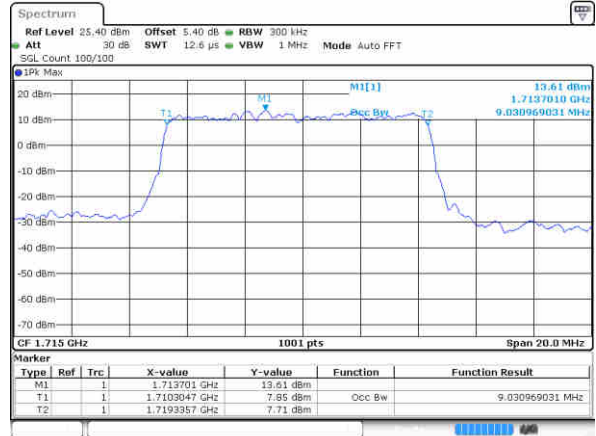
64QAM

Lowest Channel

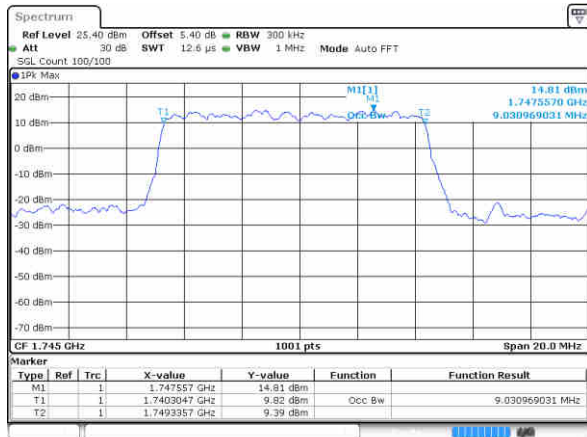


256QAM

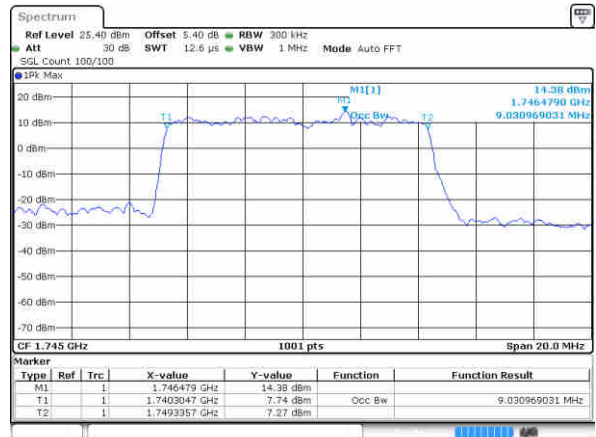
Lowest Channel



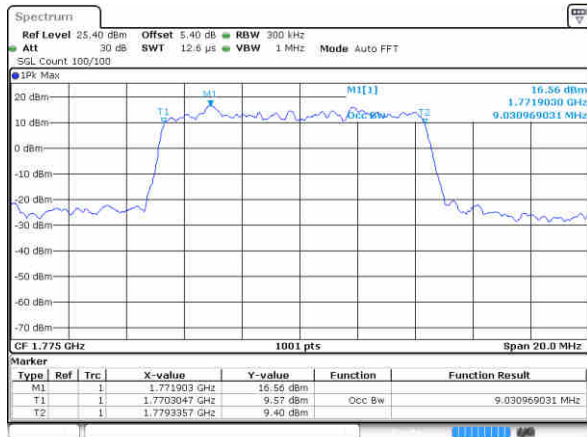
Middle Channel



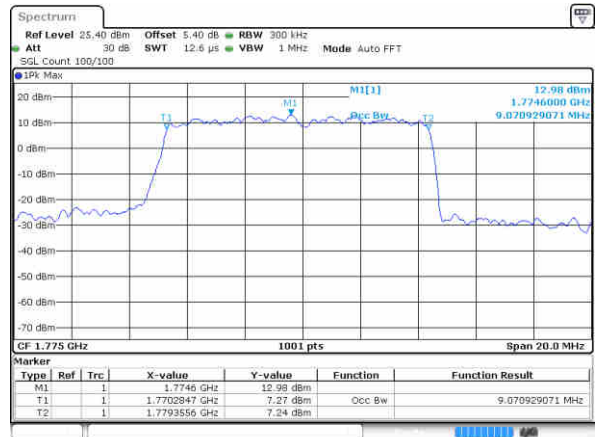
Middle Channel



Highest Channel



Highest Channel

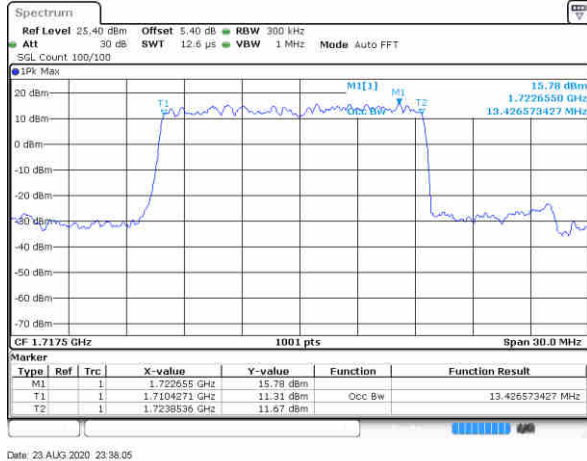




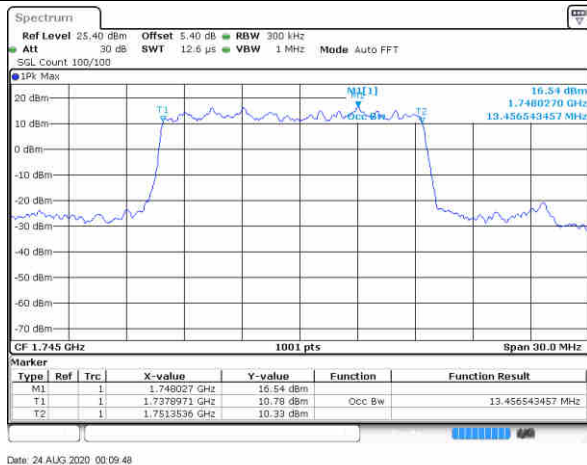
FR1 n66 / 15MHz / DFT-S OFDM

PI / BPSK

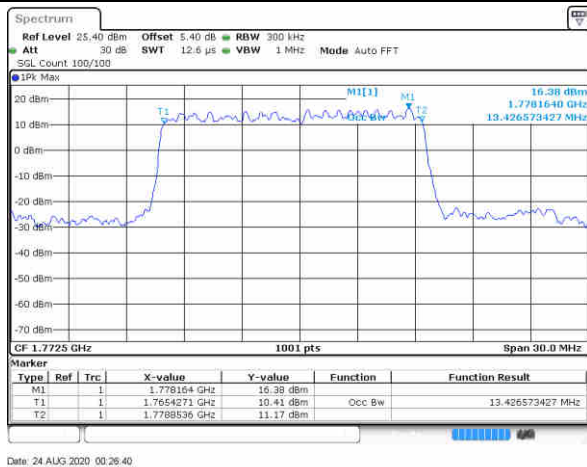
Lowest Channel



Middle Channel



Highest Channel

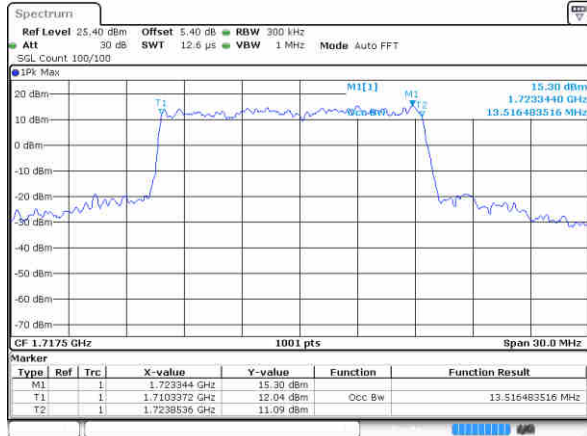




FR1 n66 / 15MHz / DFT-S OFDM

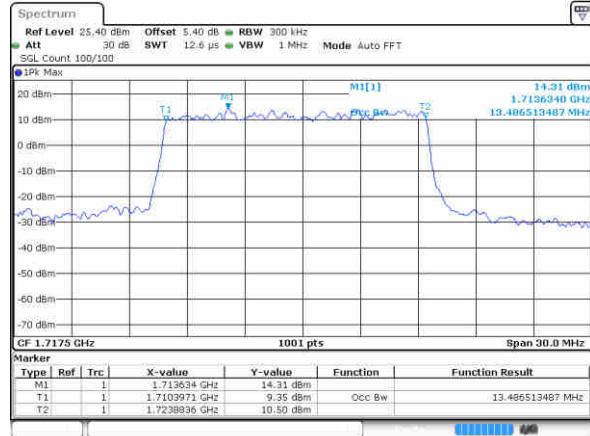
QPSK

Lowest Channel

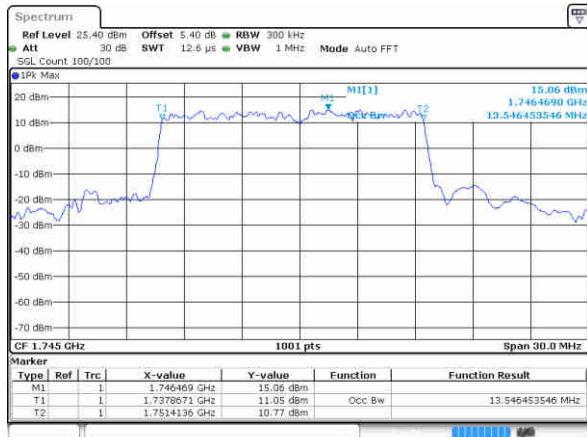


16QAM

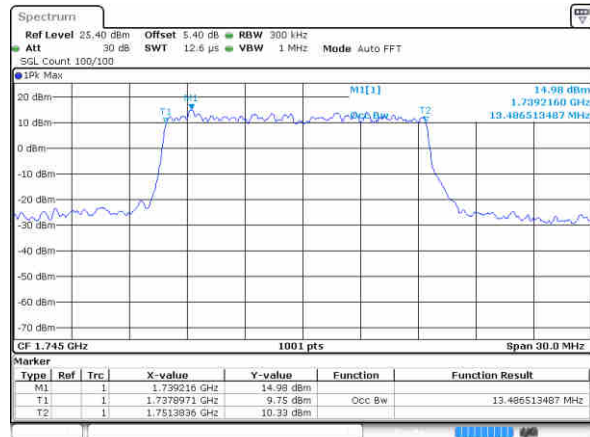
Lowest Channel



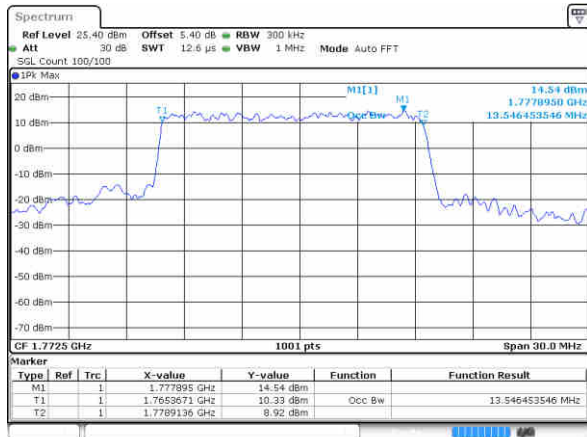
Middle Channel



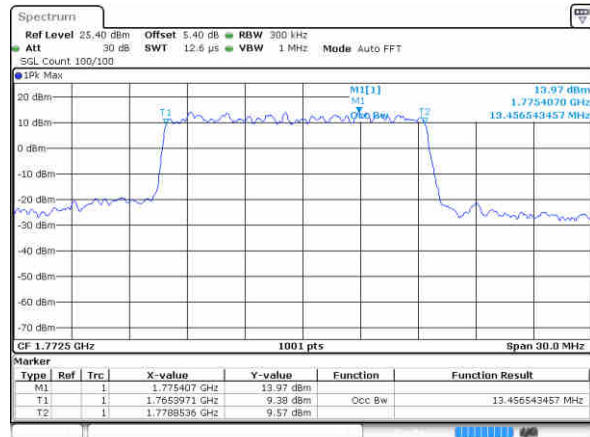
Middle Channel



Highest Channel



Highest Channel

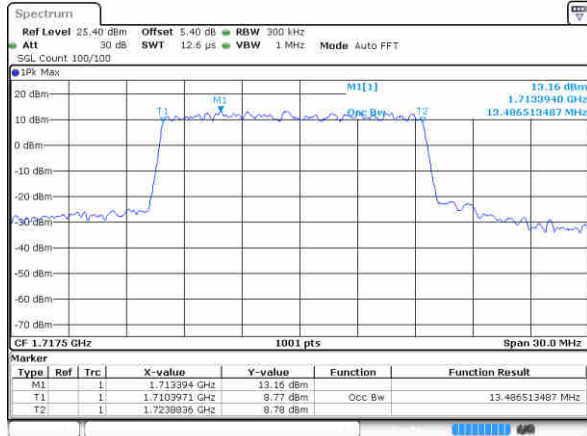




FR1 n66 / 15MHz / DFT-S OFDM

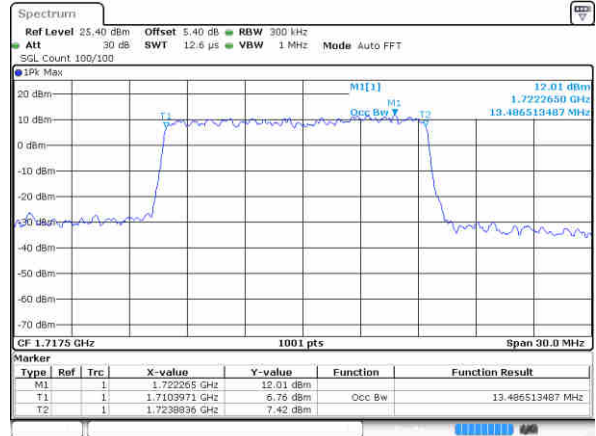
64QAM

Lowest Channel

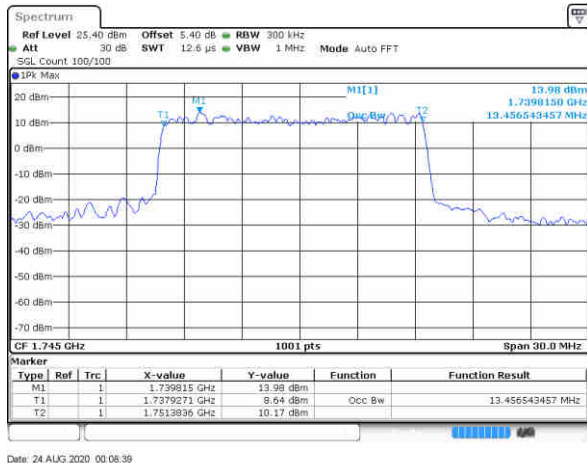


256QAM

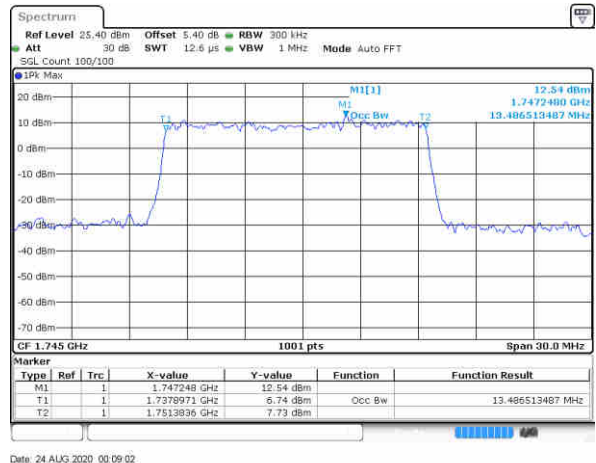
Lowest Channel



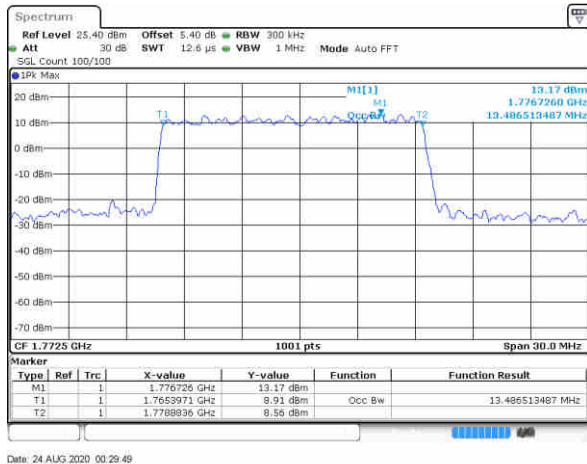
Middle Channel



Middle Channel



Highest Channel



Highest Channel

