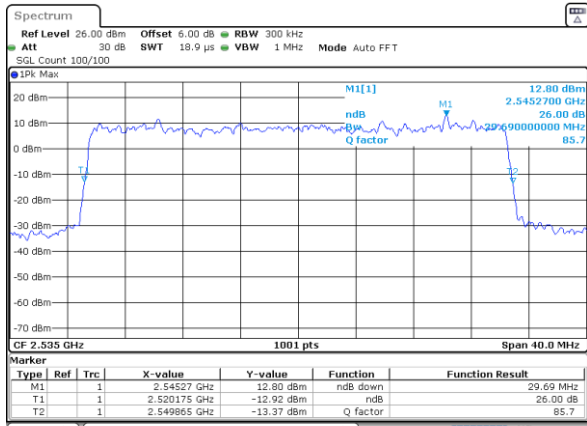




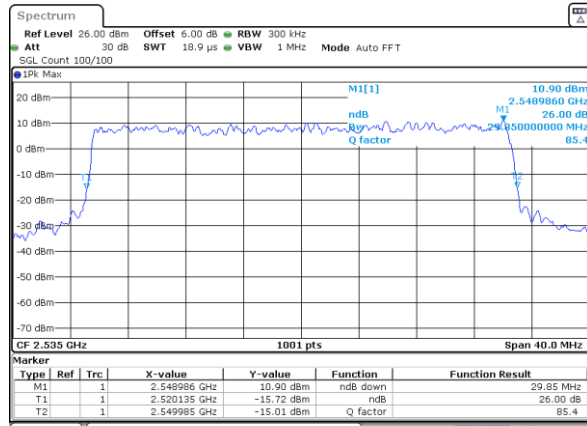
FR1 n7 / 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



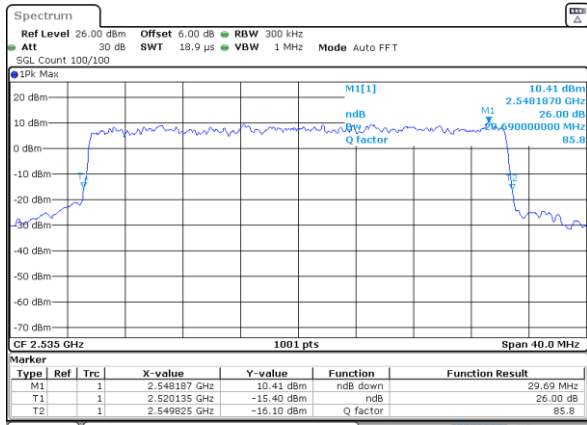
Date: 14.NOV.2022 16:17:58

16QAM



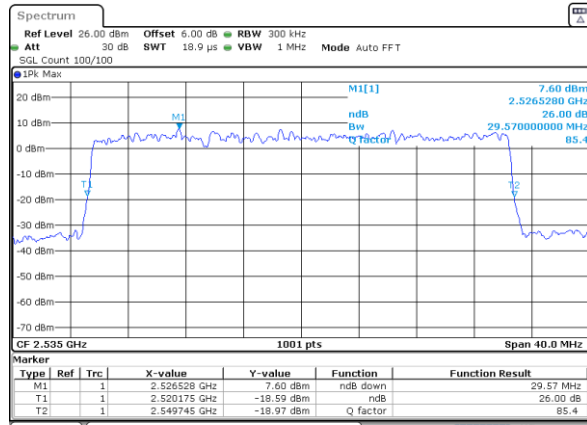
Date: 14.NOV.2022 16:17:34

64QAM



Date: 14.NOV.2022 16:17:12

256QAM

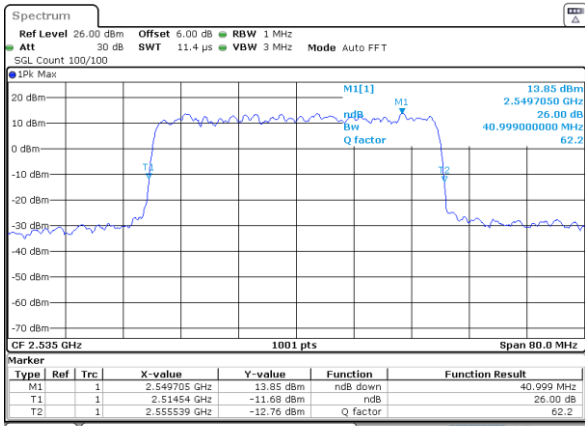


Date: 14.NOV.2022 16:16:50



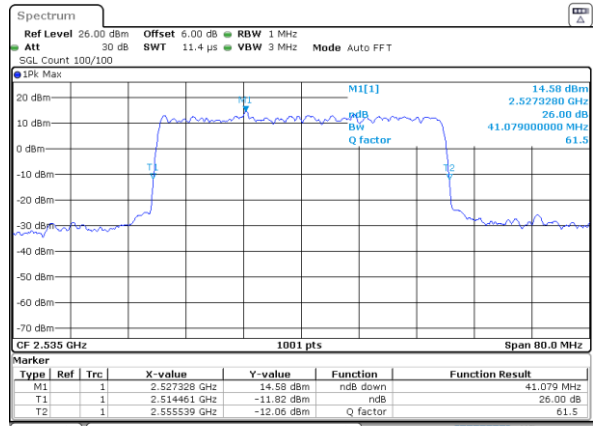
FR1 n7 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK



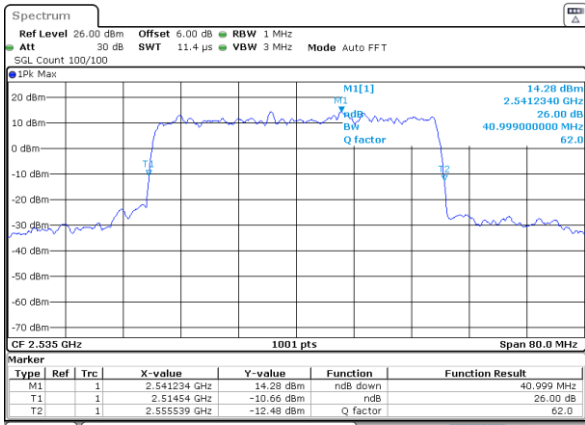
Date: 14.NOV.2022 16:15:21

16QAM



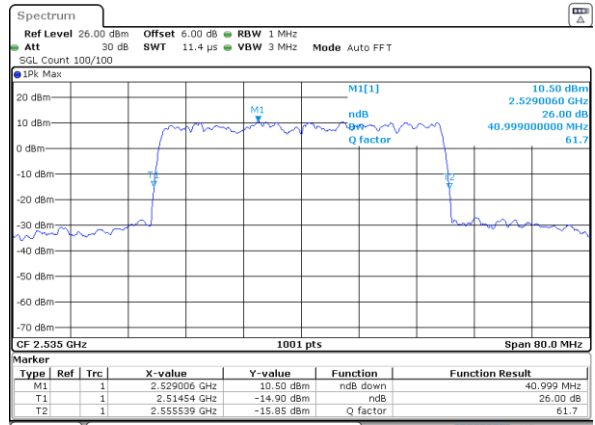
Date: 14.NOV.2022 16:15:34

64QAM



Date: 14.NOV.2022 16:15:49

256QAM



Date: 14.NOV.2022 16:16:05



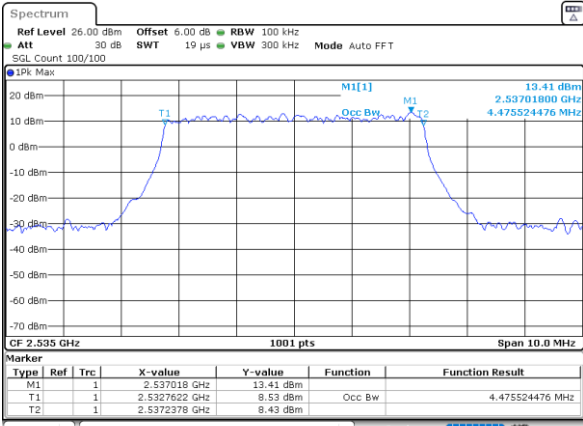
Occupied Bandwidth

Mode	FR1 n7 : 99%OBW (MHz) / CP OFDM						
BW	5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz
Mod.	QPSK	QPSK	QPSK	QPSK	QPSK	QPSK	QPSK
Middle CH	4.48	9.35	14.15	18.90	23.74	28.57	38.68
BW	5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz
Mod.	16QAM	16QAM	16QAM	16QAM	16QAM	16QAM	16QAM
Middle CH	4.50	9.39	14.12	18.94	23.74	28.57	39.00
BW	5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz
Mod.	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM	64QAM
Middle CH	4.50	9.43	14.09	18.94	23.70	28.49	38.52
BW	5MHz	10MHz	15MHz	20MHz	25MHz	30MHz	40MHz
Mod.	256QAM	256QAM	256QAM	256QAM	256QAM	256QAM	256QAM
Middle CH	4.49	9.45	14.15	18.98	23.82	28.53	38.76



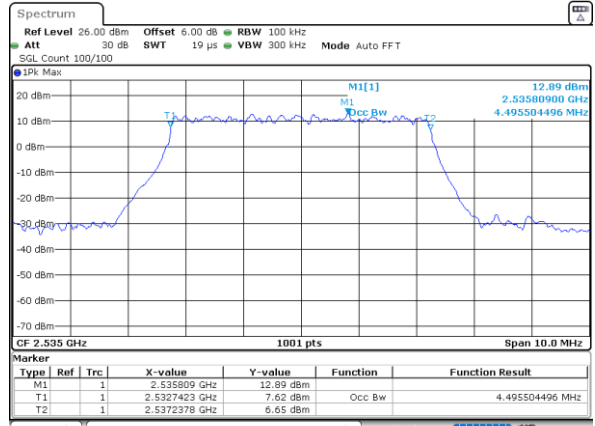
FR1 n7 / 5MHz / CP OFDM / Middle Channel / Full RB

QPSK



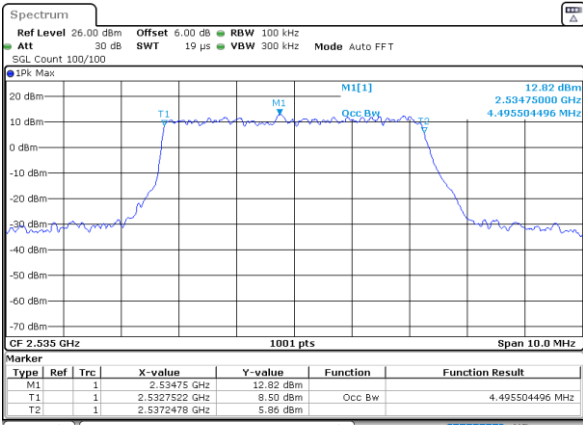
Date: 14.NOV.2022 16:24:09

16QAM



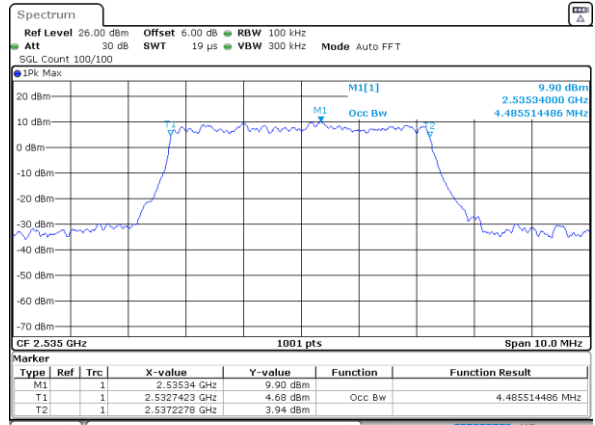
Date: 14.NOV.2022 16:24:24

64QAM



Date: 14.NOV.2022 16:24:51

256QAM

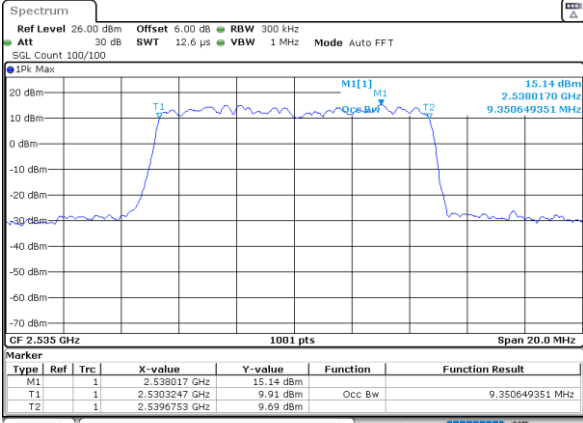


Date: 14.NOV.2022 16:25:06



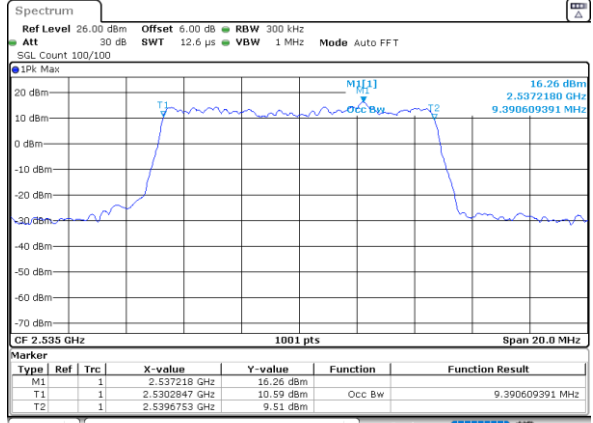
FR1 n7 / 10MHz / CP OFDM / Middle Channel / Full RB

QPSK



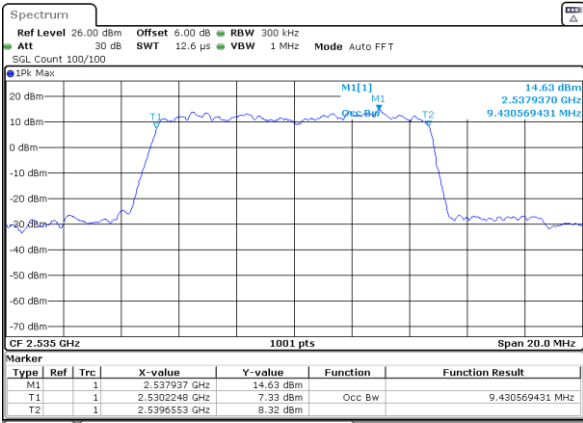
Date: 14.NOV.2022 16:23:17

16QAM



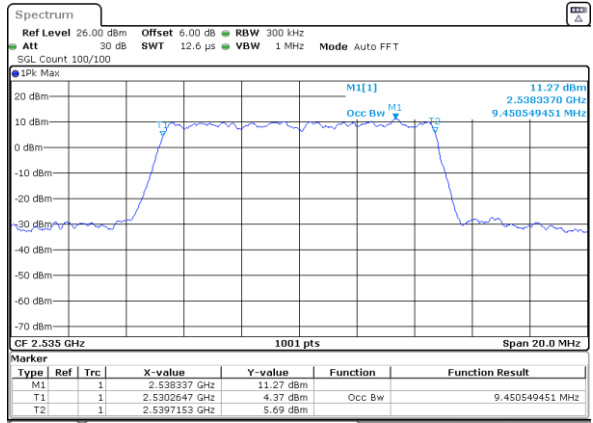
Date: 14.NOV.2022 16:23:21

64QAM



Date: 14.NOV.2022 16:23:06

256QAM

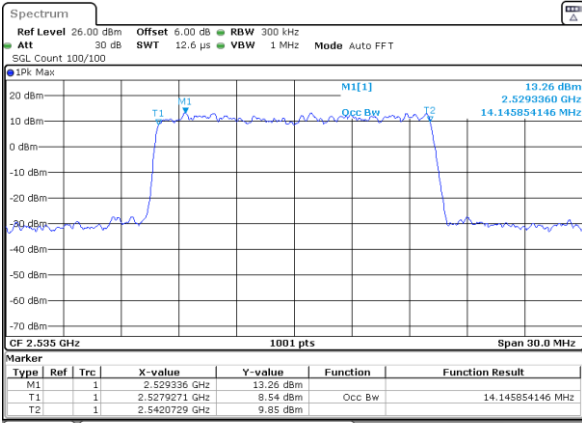


Date: 14.NOV.2022 16:23:49



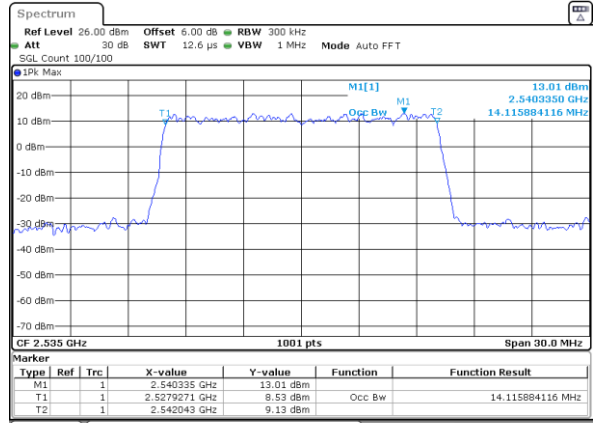
FR1 n7 /15MHz / CP OFDM / Middle Channel / Full RB

QPSK



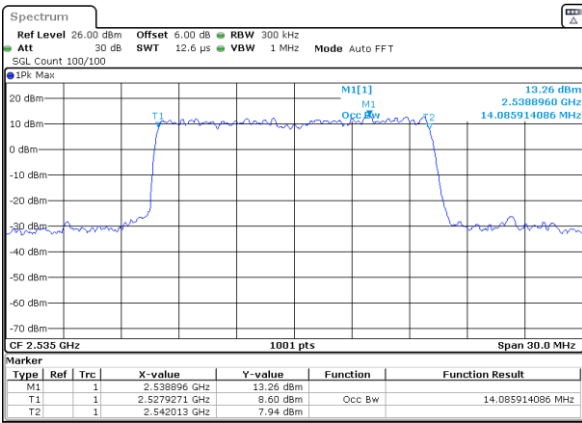
Date: 14.NOV.2022 16:21:36

16QAM



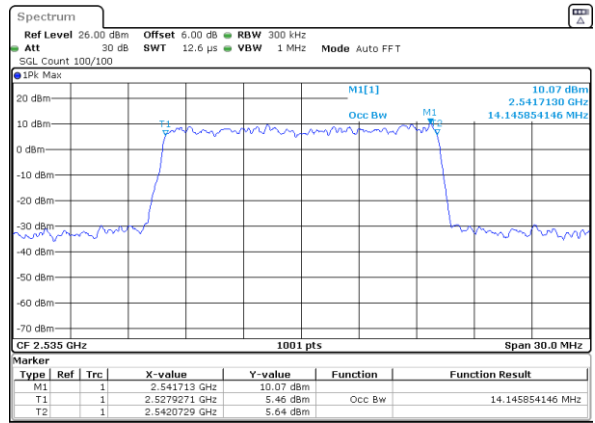
Date: 14.NOV.2022 16:21:52

64QAM



Date: 14.NOV.2022 16:22:07

256QAM

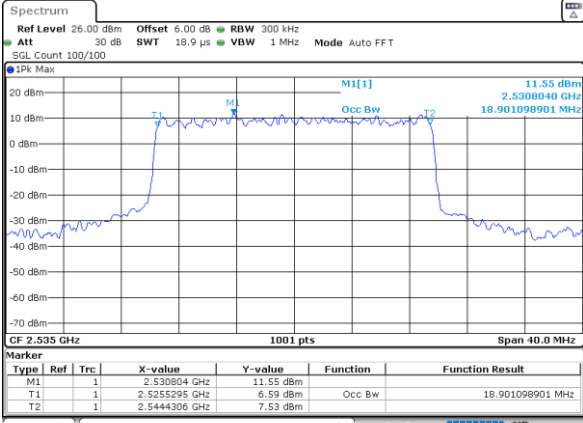


Date: 14.NOV.2022 16:22:25



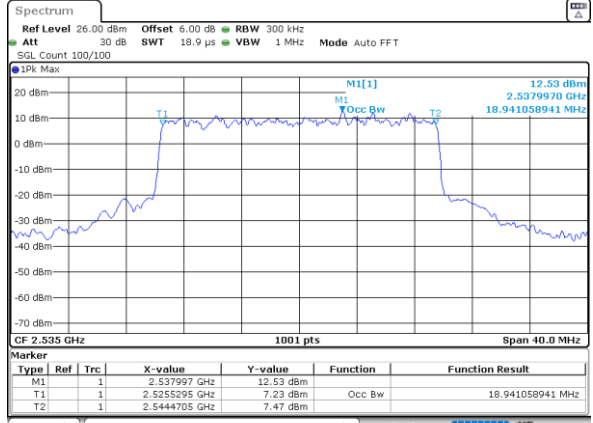
FR1 n7 / 20MHz / CP OFDM / Middle Channel / Full RB

QPSK



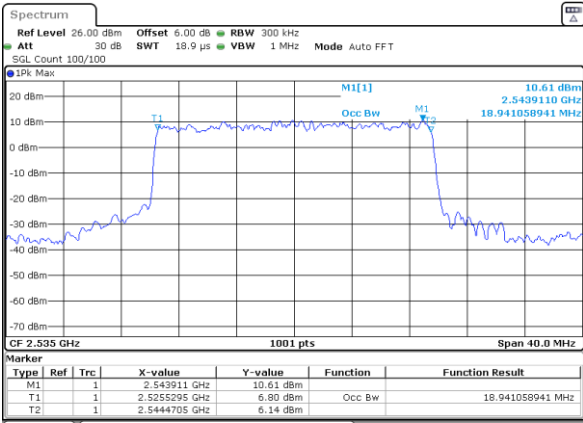
Date: 16.DEC.2022 07:46:30

16QAM



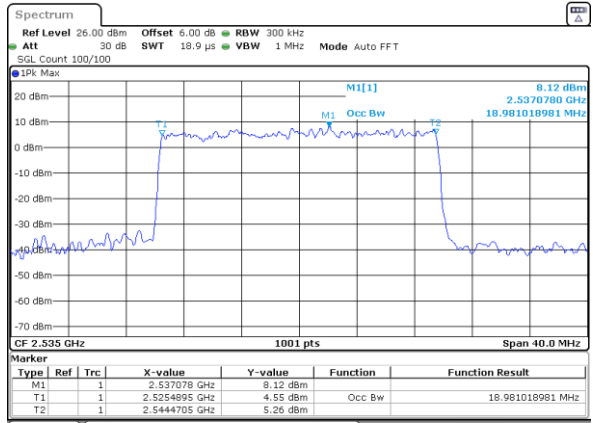
Date: 16.DEC.2022 07:46:49

64QAM



Date: 16.DEC.2022 07:47:05

256QAM

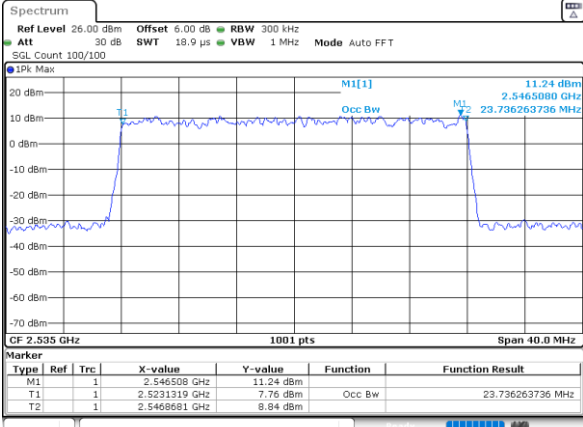


Date: 16.DEC.2022 07:47:22



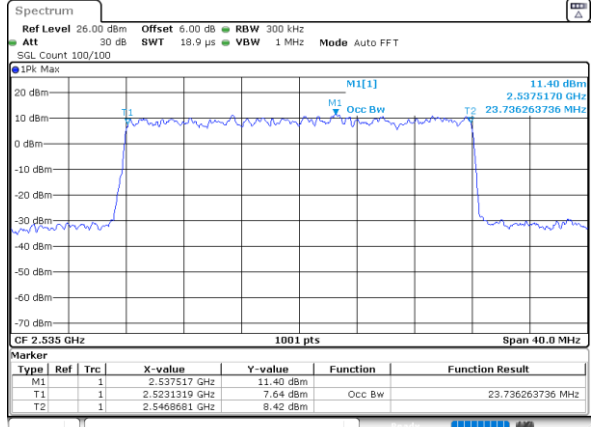
FR1 n7 / 25MHz / CP OFDM / Middle Channel / Full RB

QPSK



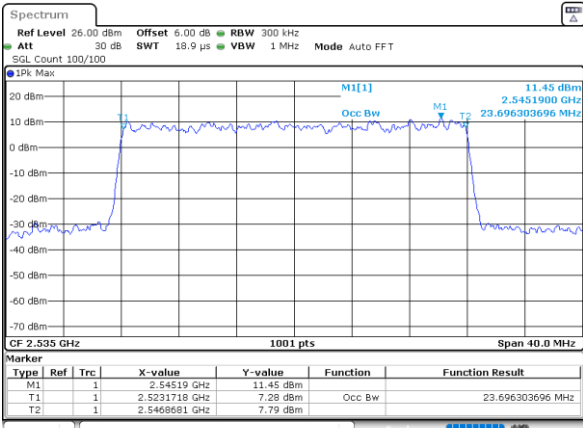
Date: 14.NOV.2022 16:18:47

16QAM



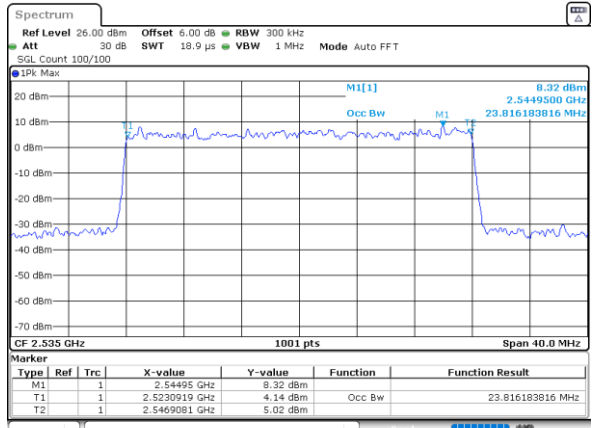
Date: 14.NOV.2022 16:19:07

64QAM



Date: 14.NOV.2022 16:19:27

256QAM

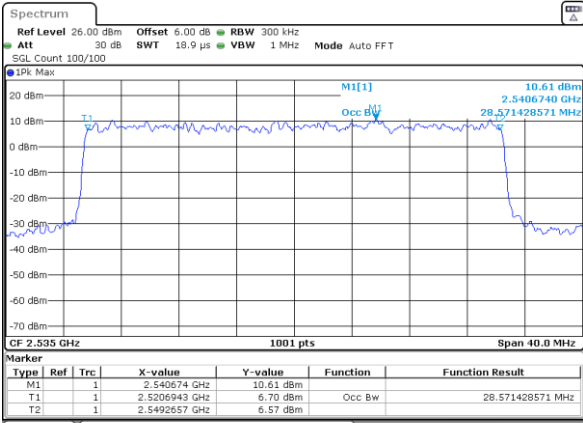


Date: 14.NOV.2022 16:19:49



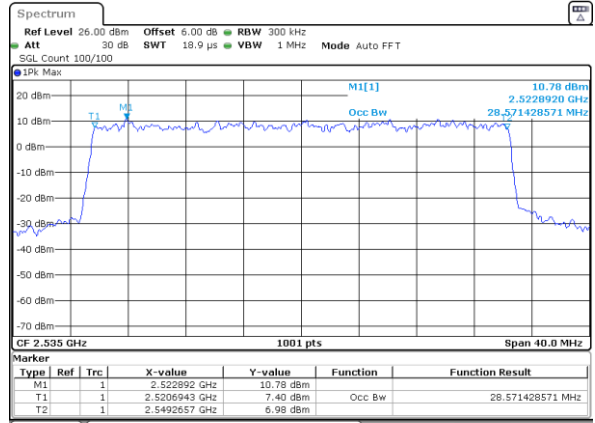
FR1 n7/ 30MHz / CP OFDM / Middle Channel / Full RB

QPSK



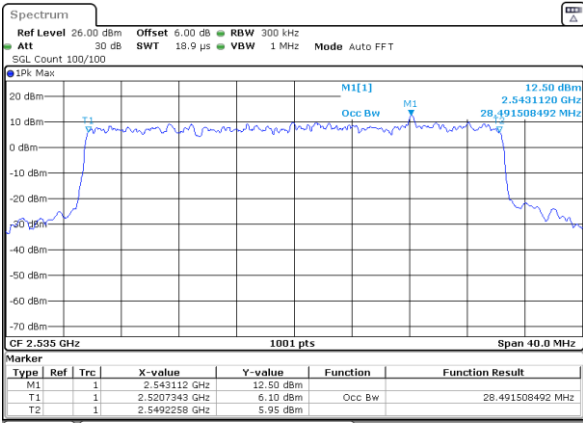
Date: 14.NOV.2022 16:17:48

16QAM



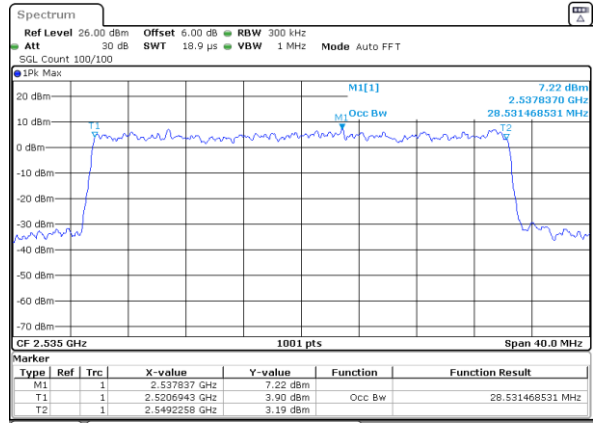
Date: 14.NOV.2022 16:17:25

64QAM



Date: 14.NOV.2022 16:17:03

256QAM

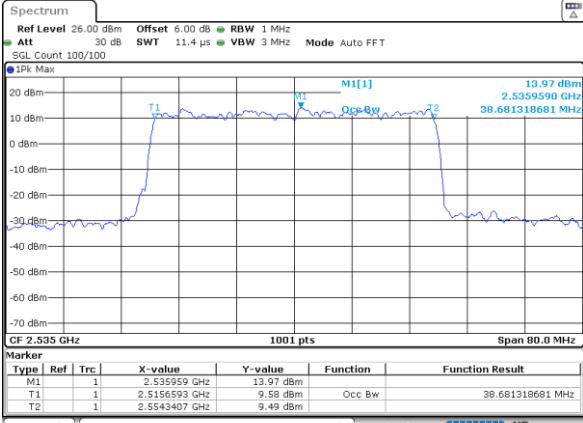


Date: 14.NOV.2022 16:16:42



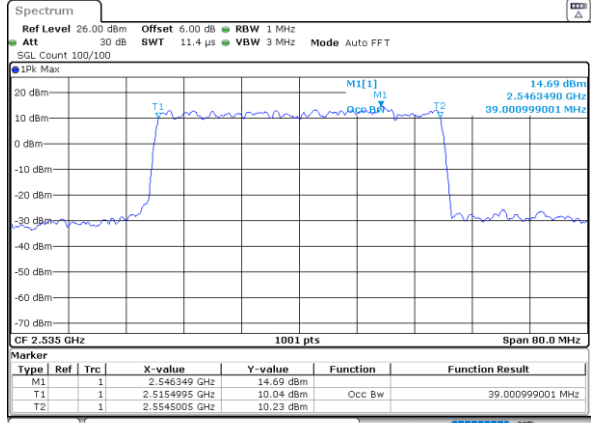
FR1 n7 / 40MHz / CP OFDM / Middle Channel / Full RB

QPSK



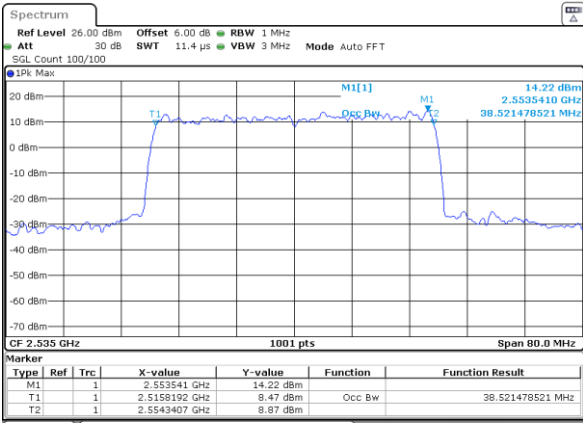
Date: 14.NOV.2022 16:15:15

16QAM



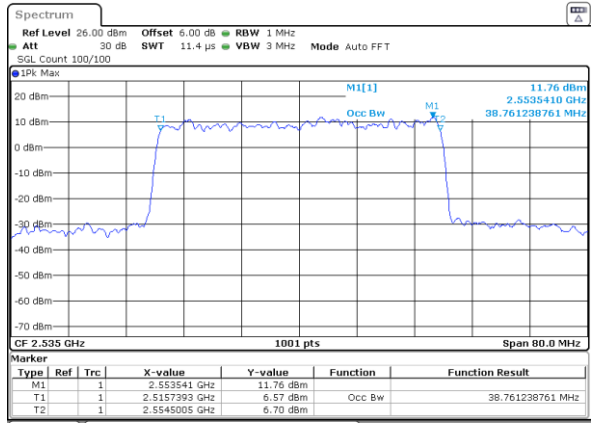
Date: 14.NOV.2022 16:15:29

64QAM



Date: 14.NOV.2022 16:15:43

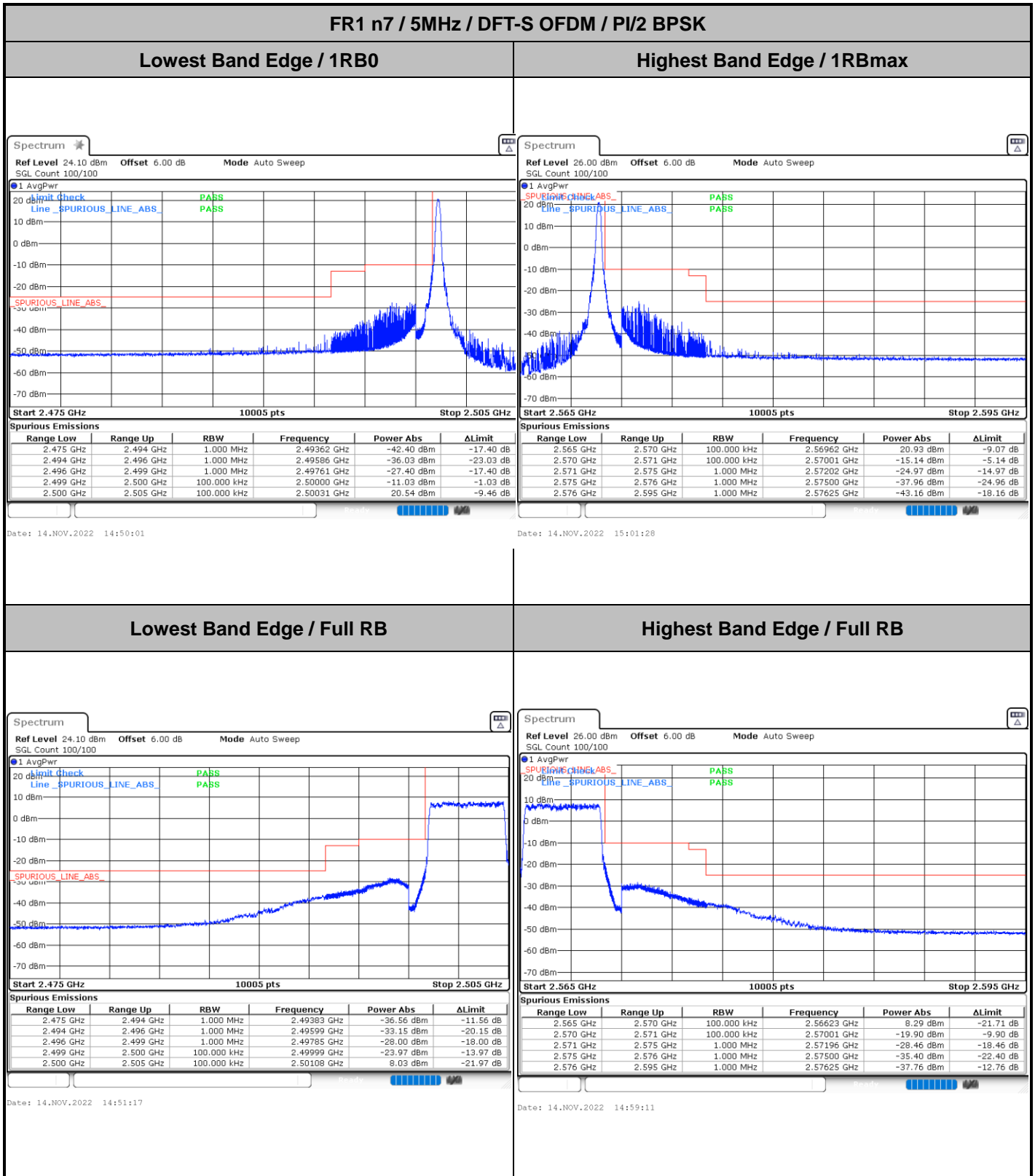
256QAM



Date: 14.NOV.2022 16:15:58



Conducted Band Edge

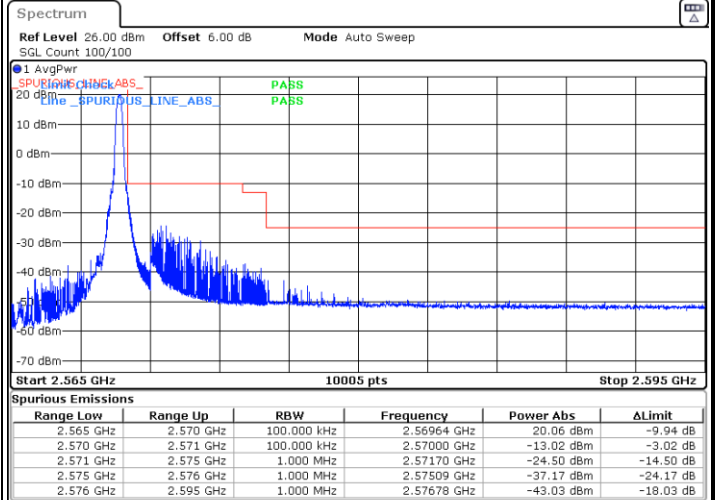
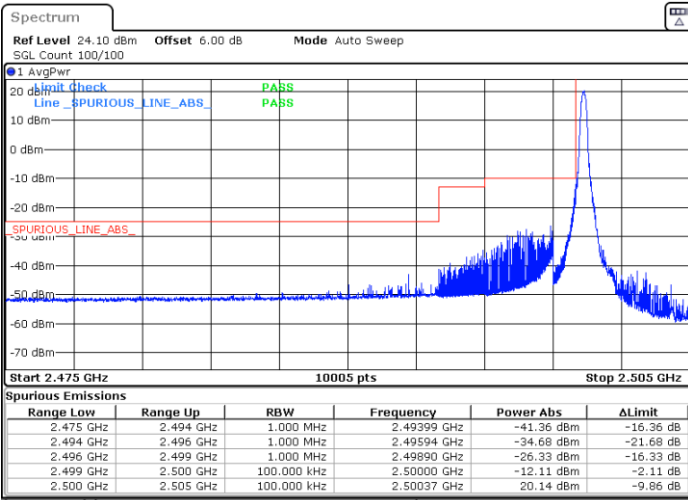




FR1 n7 / 5MHz / DFT-S OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

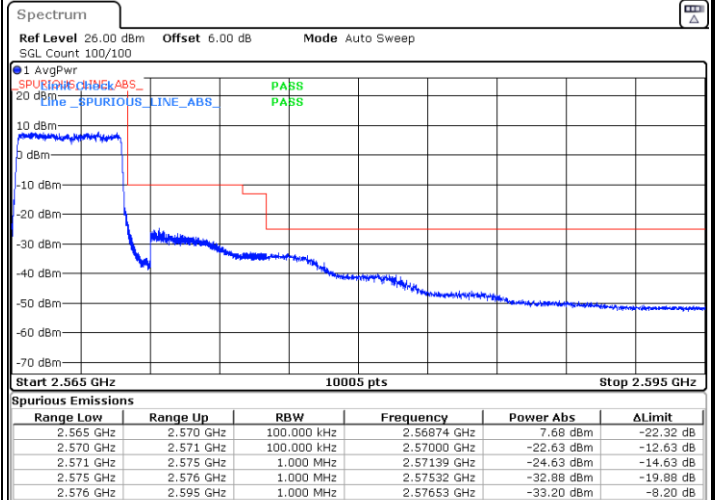
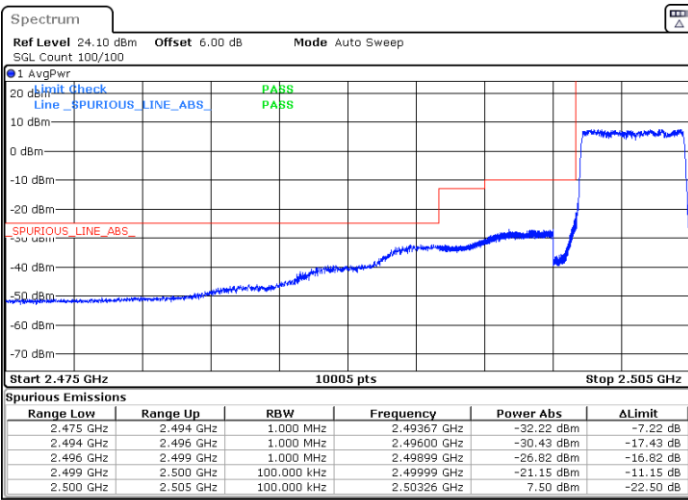


Date: 14.NOV.2022 14:50:30

Date: 14.NOV.2022 15:01:12

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 14.NOV.2022 14:51:01

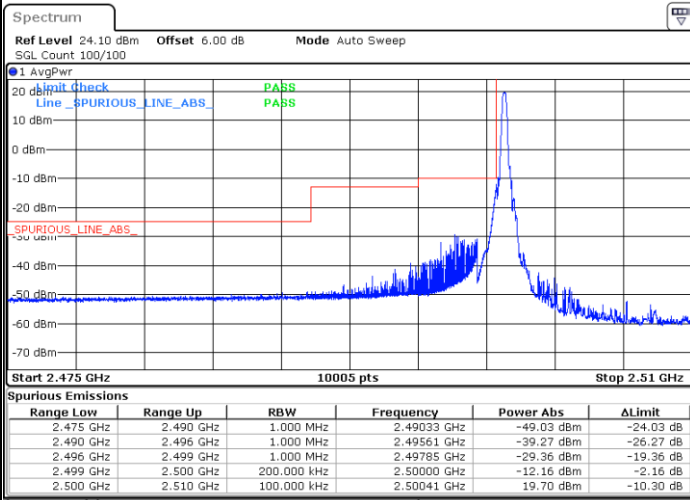
Date: 14.NOV.2022 15:00:03



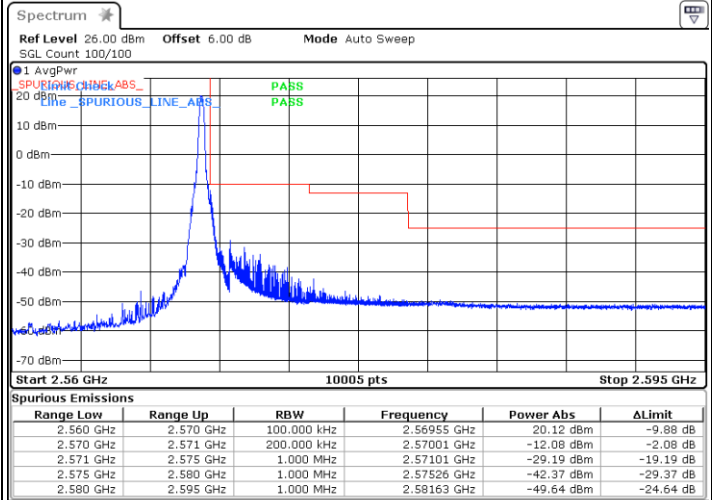
FR1 n7 / 10MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax



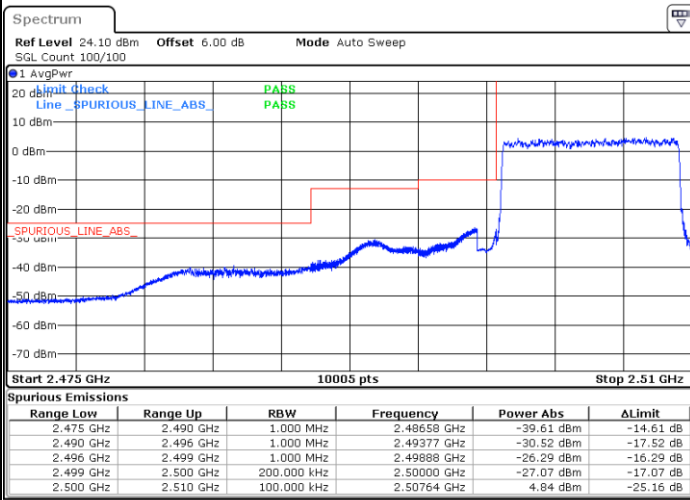
Date: 21.NOV.2022 17:38:51



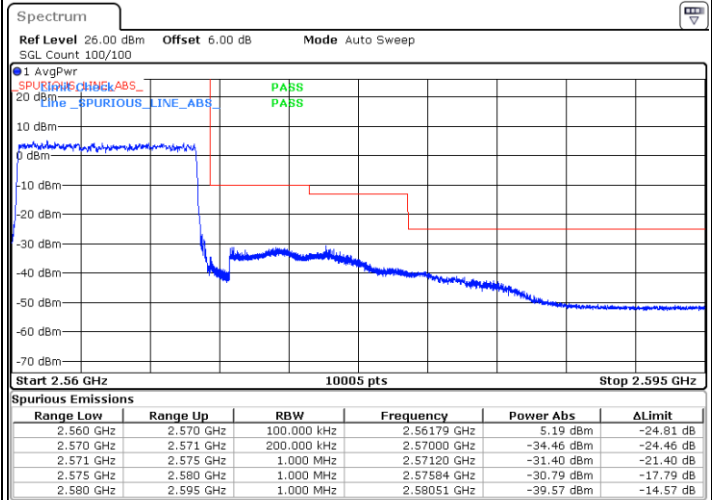
Date: 21.NOV.2022 17:42:20

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.NOV.2022 17:40:41



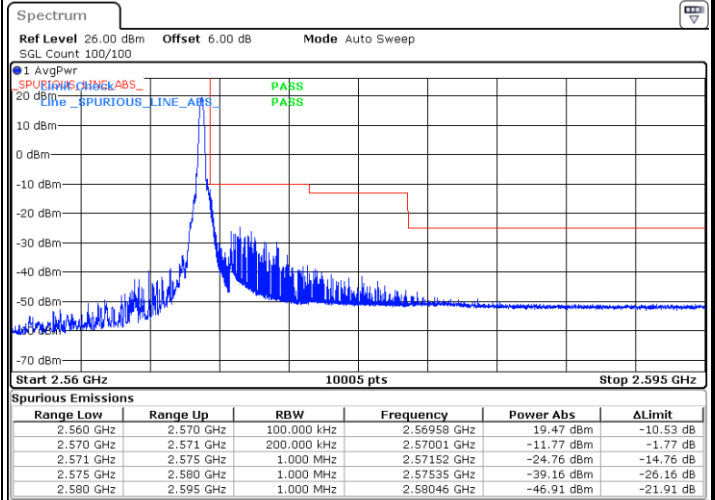
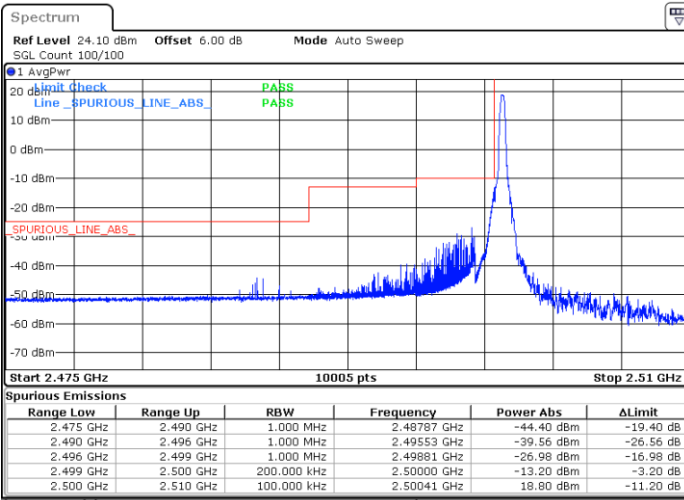
Date: 21.NOV.2022 17:41:20



FR1 n7 / 10MHz / DFT-s-OFDM / QPSK

Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

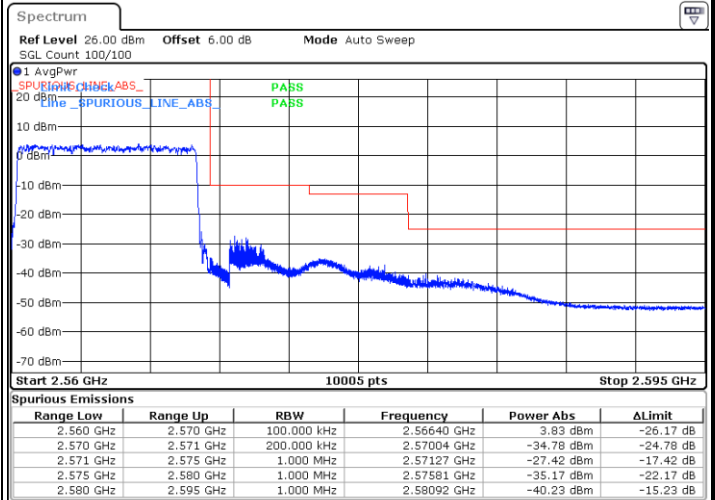
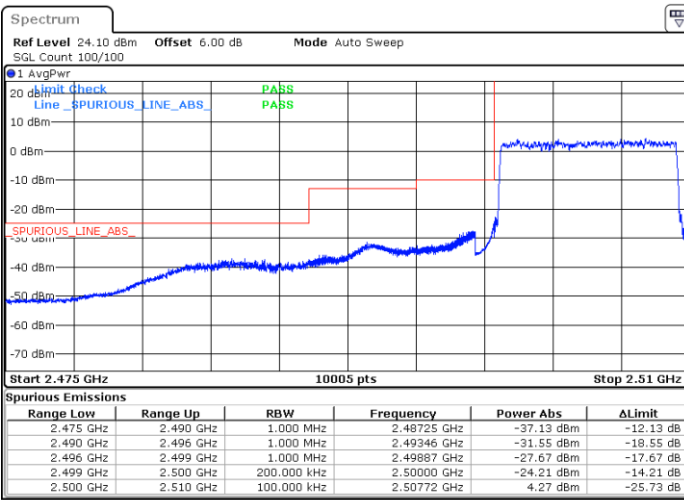


Date: 21.NOV.2022 17:39:27

Date: 21.NOV.2022 17:41:52

Lowest Band Edge / Full RB

Highest Band Edge / Full RB



Date: 21.NOV.2022 17:40:05

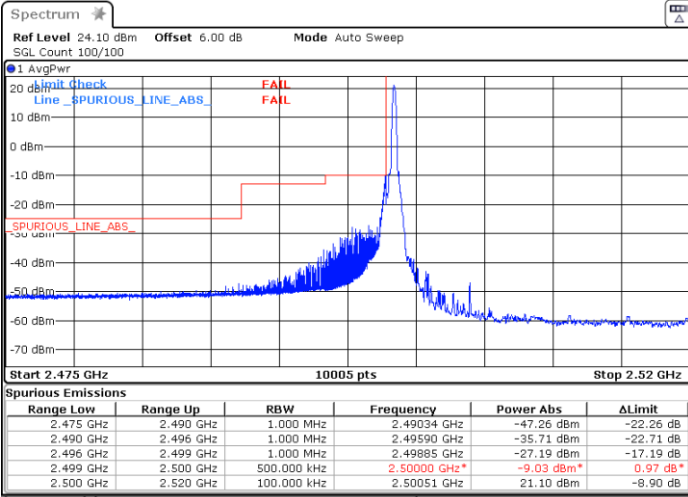
Date: 21.NOV.2022 17:41:34



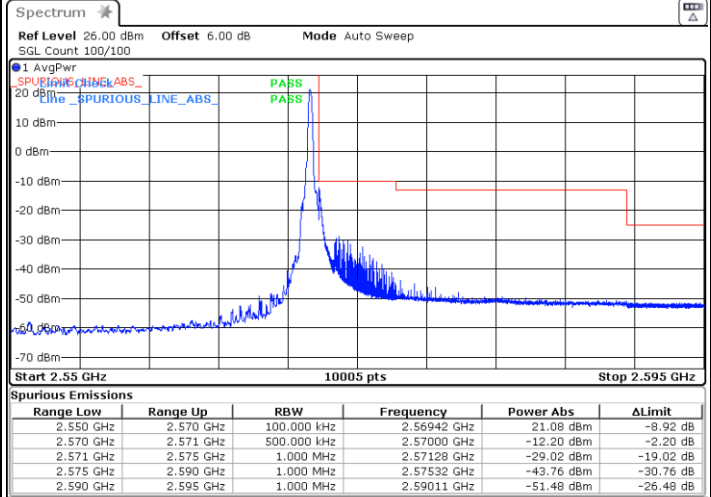
FR1 n7 / 20MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

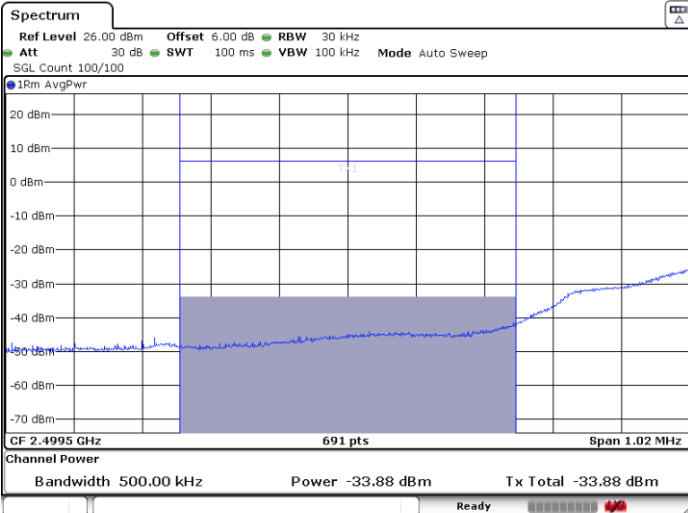
Highest Band Edge / 1RBmax



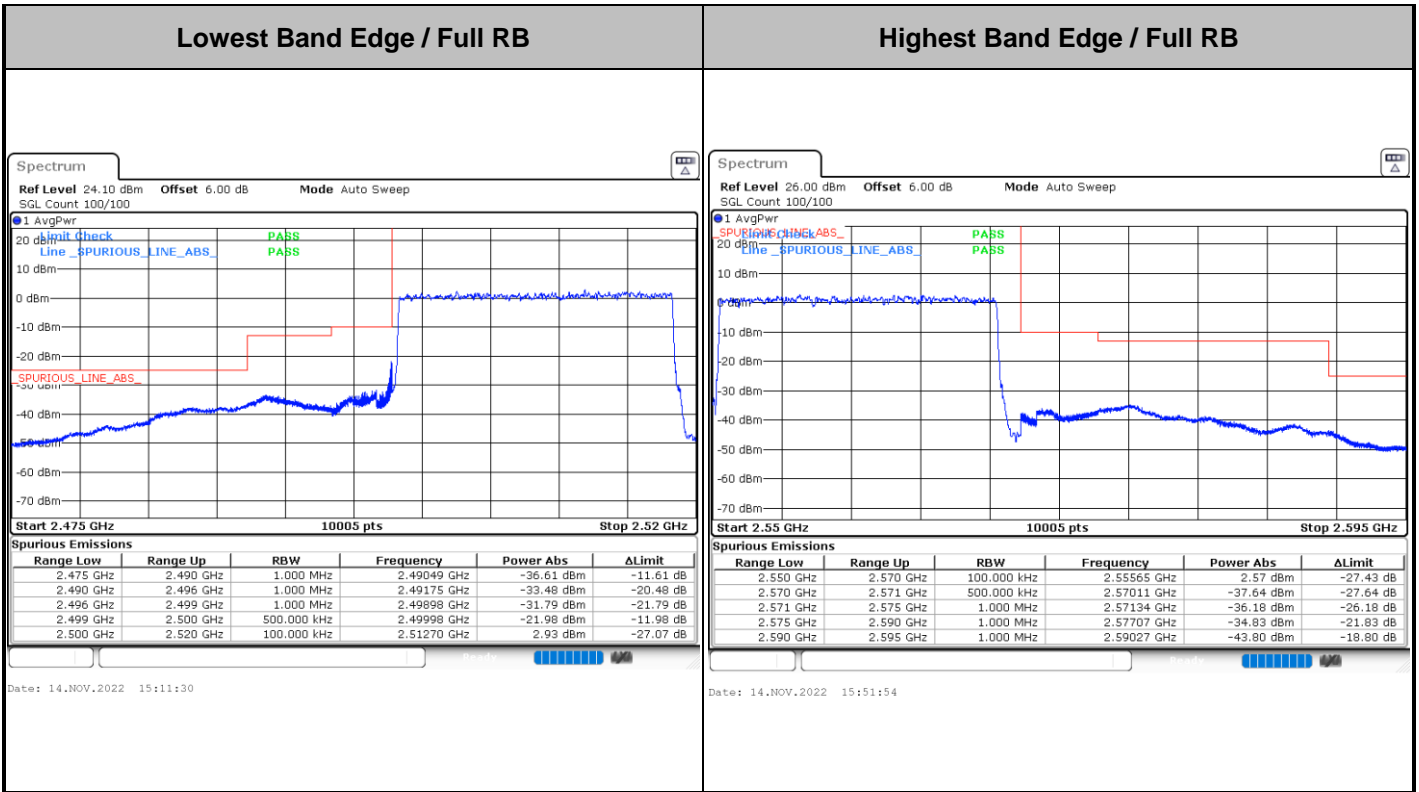
Date: 14.NOV.2022 15:37:36



Date: 14.NOV.2022 15:52:41



Date: 14.NOV.2022 15:44:32

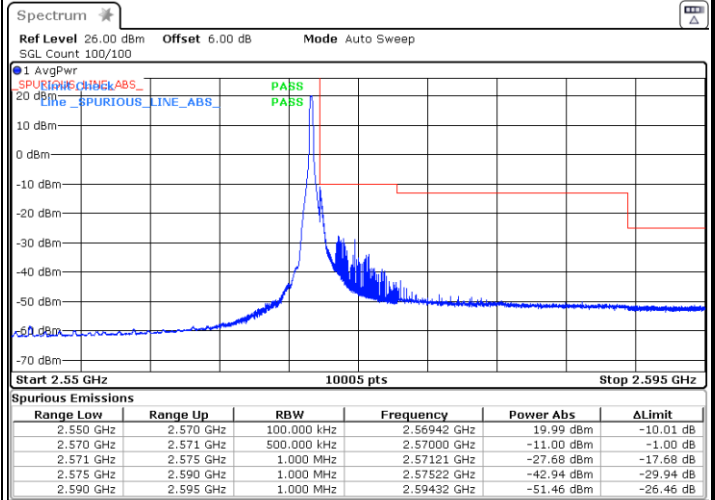
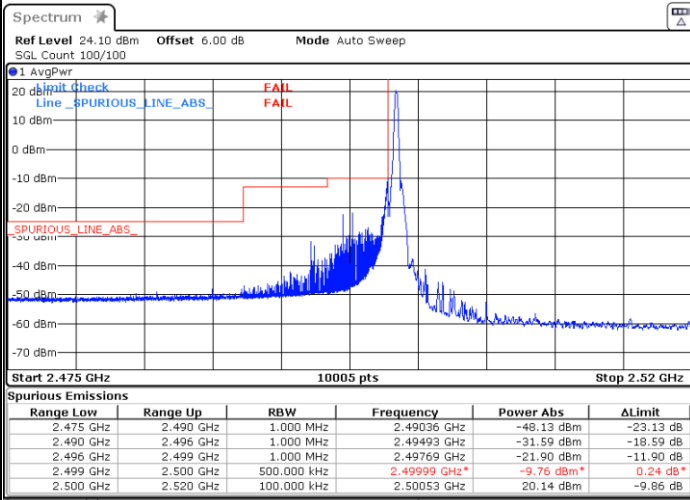




FR1 n7 / 20MHz / DFT-s-OFDM / QPSK

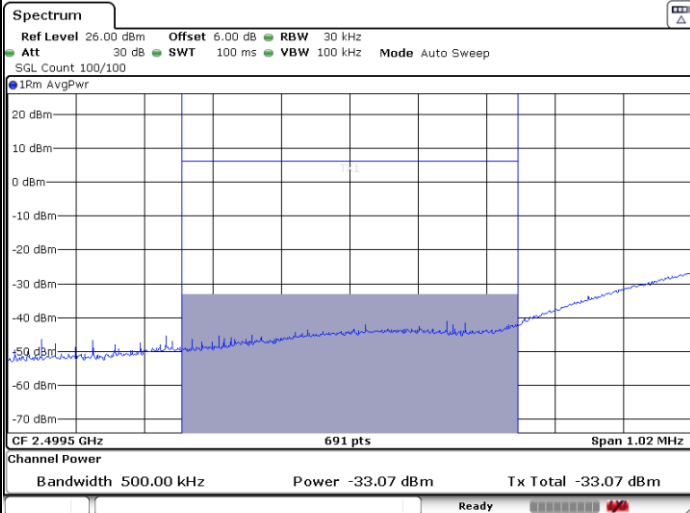
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

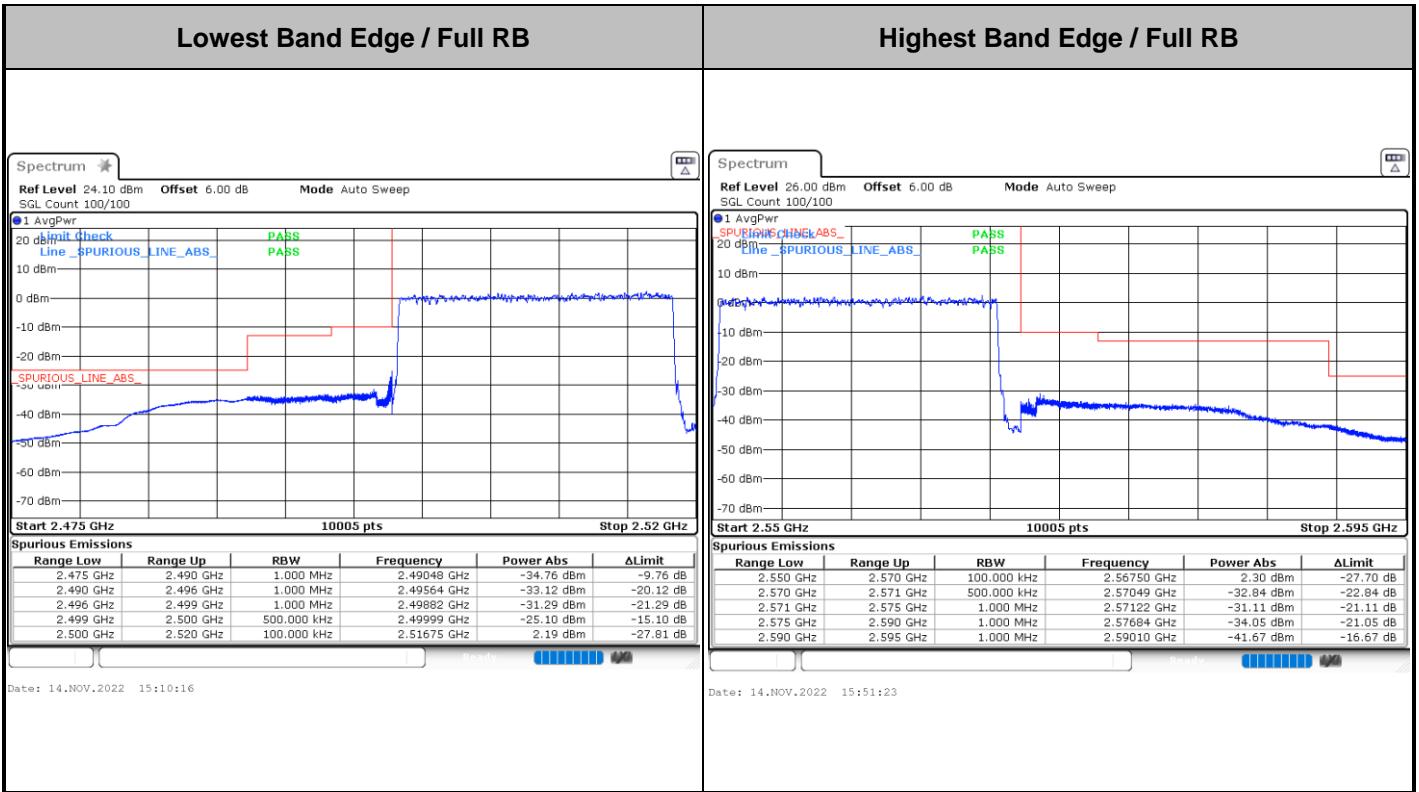


Date: 14.NOV.2022 15:39:51

Date: 14.NOV.2022 15:54:57



Date: 14.NOV.2022 15:45:05

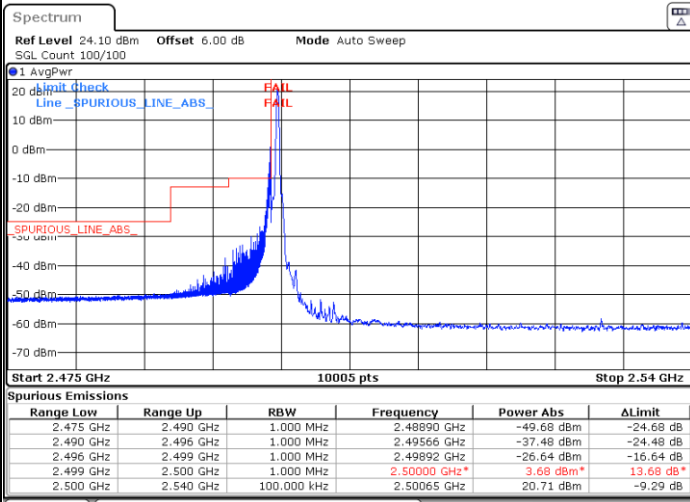




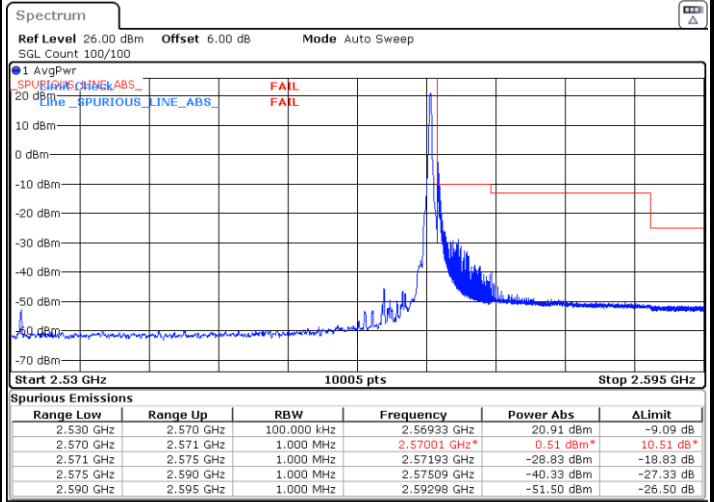
FR1 n7 / 40MHz / DFT-s-OFDM / PI/2 BPSK

Lowest Band Edge / 1RB0

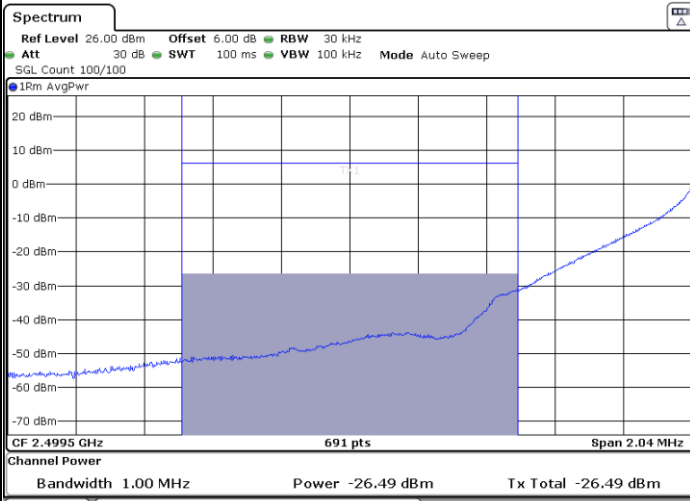
Highest Band Edge / 1RBmax



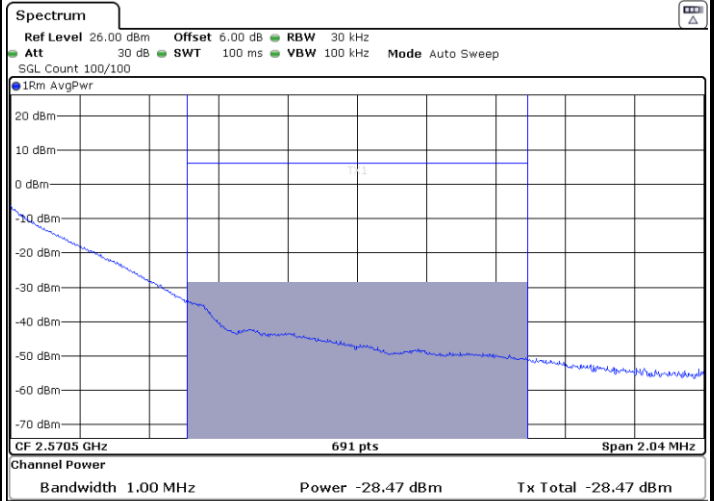
Date: 14.NOV.2022 15:57:03



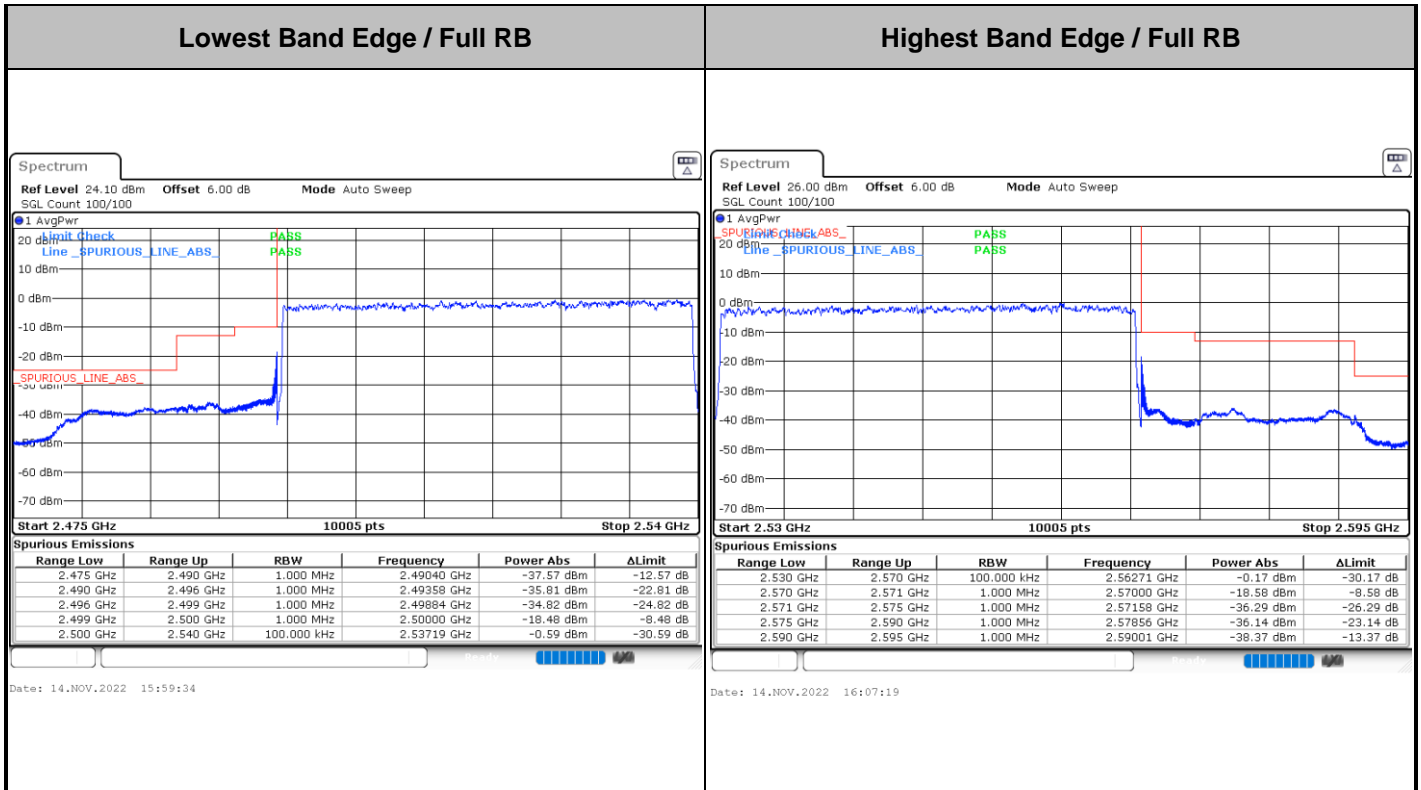
Date: 14.NOV.2022 16:08:21



Date: 14.NOV.2022 15:58:12



Date: 14.NOV.2022 16:09:25

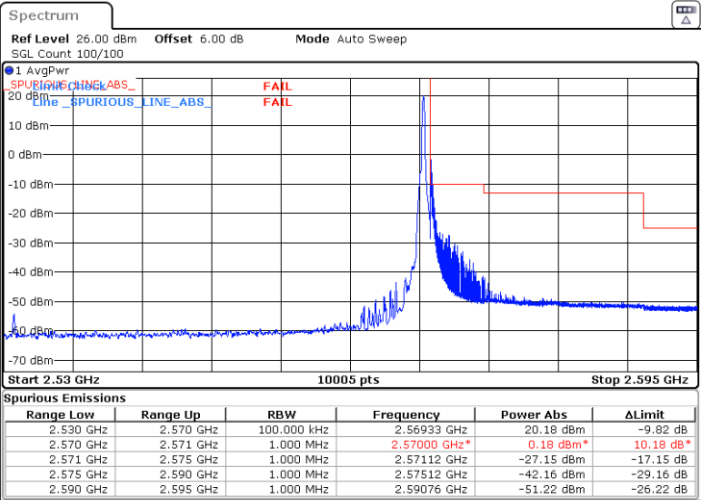
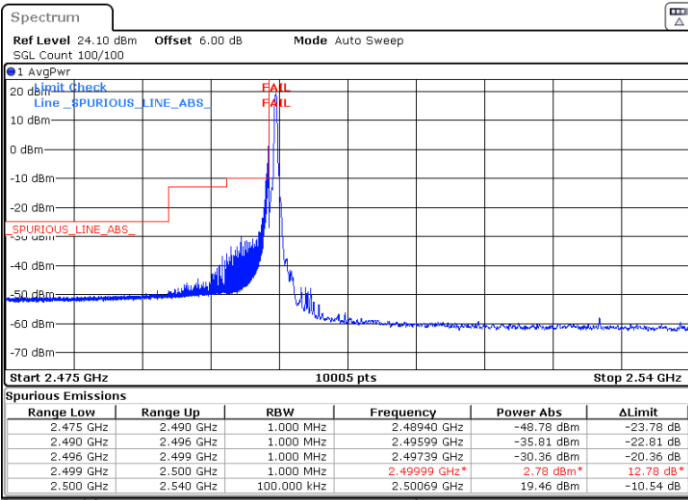




FR1 n7 / 40MHz / DFT-s-OFDM / PI/2 QPSK

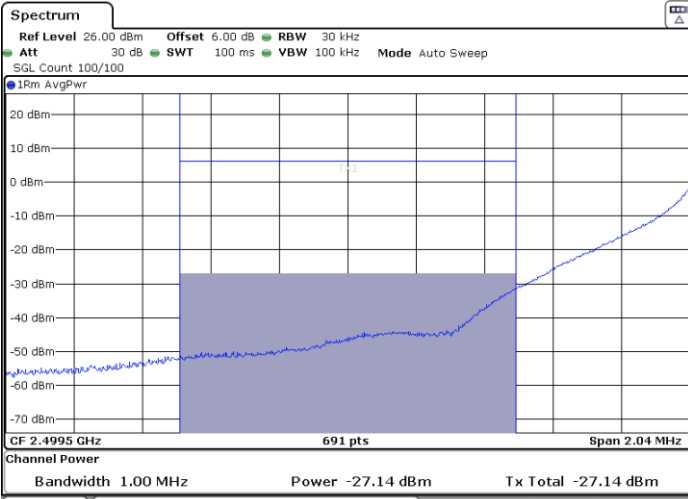
Lowest Band Edge / 1RB0

Highest Band Edge / 1RBmax

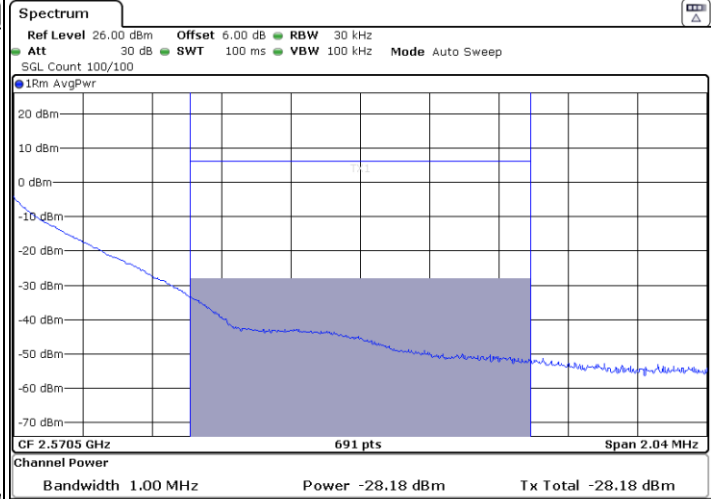


Date: 14.NOV.2022 15:56:48

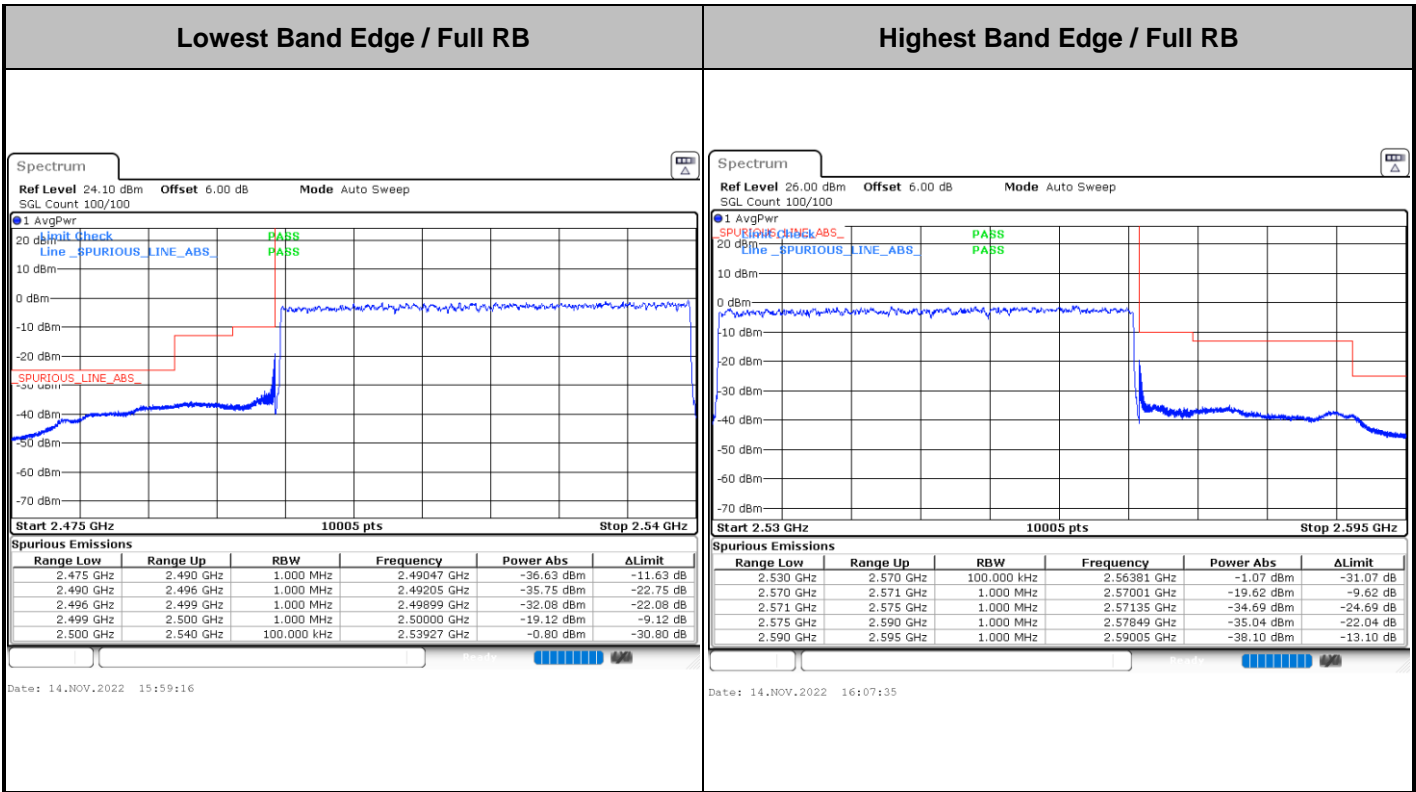
Date: 14.NOV.2022 16:07:57



Date: 14.NOV.2022 15:58:46



Date: 14.NOV.2022 16:10:39



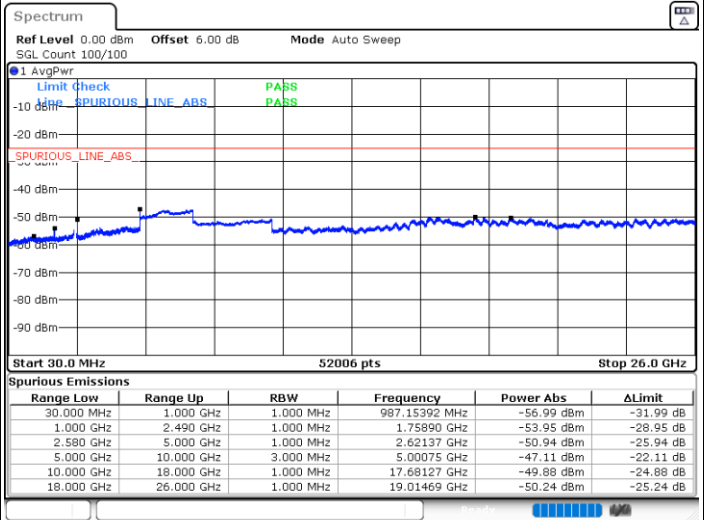
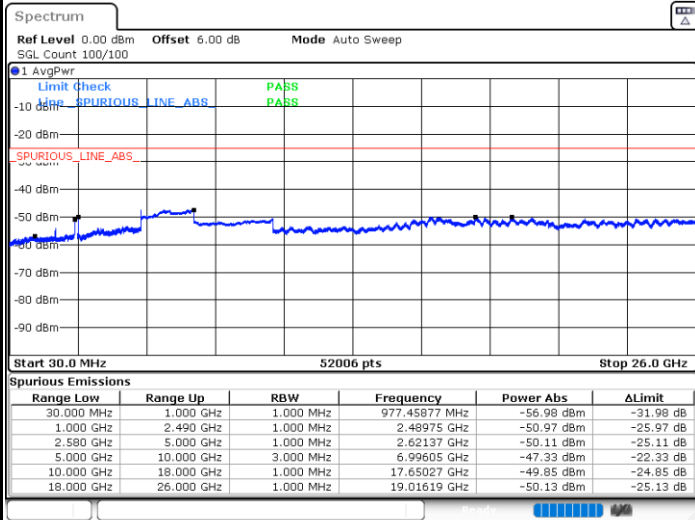


Conducted Spurious Emission

FR1 n7 / 5MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

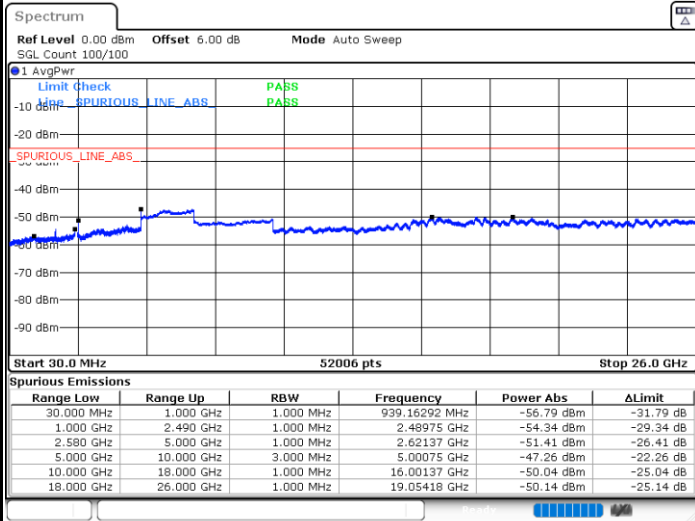
Middle Channel / 1RB1



Date: 14.NOV.2022 14:52:41

Date: 14.NOV.2022 14:56:08

Highest Channel / 1RB1



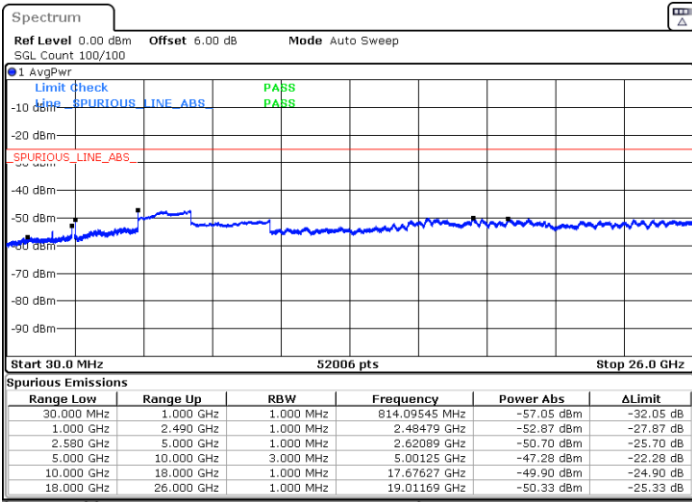
Date: 14.NOV.2022 14:57:09



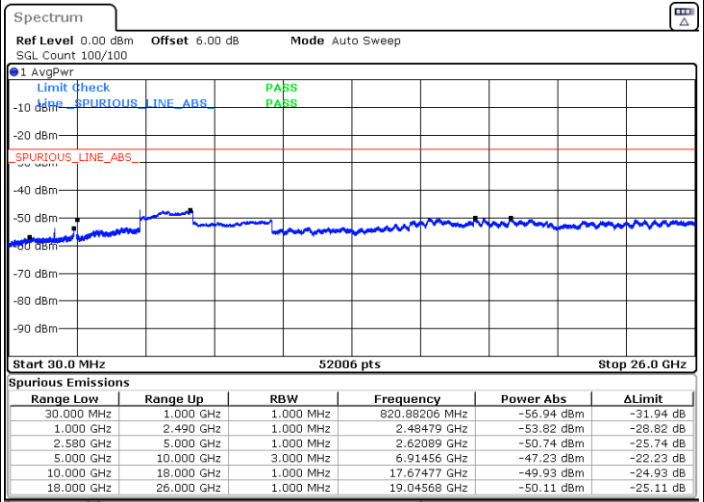
FR1 n7 / 5MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

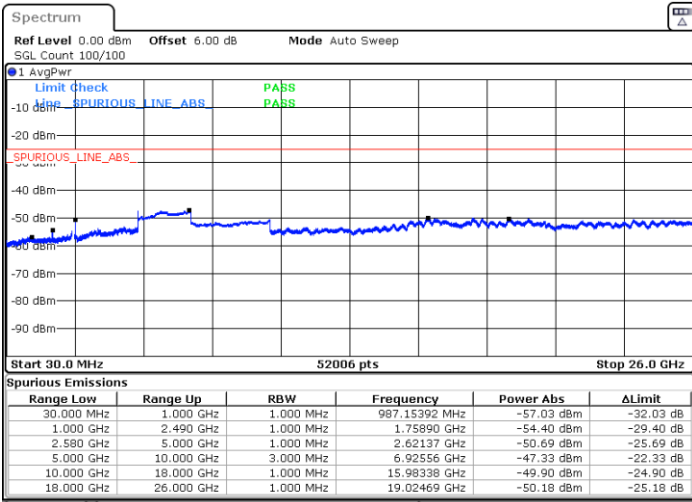


Date: 14.NOV.2022 14:53:48



Date: 14.NOV.2022 14:55:05

Highest Channel / 1RB1



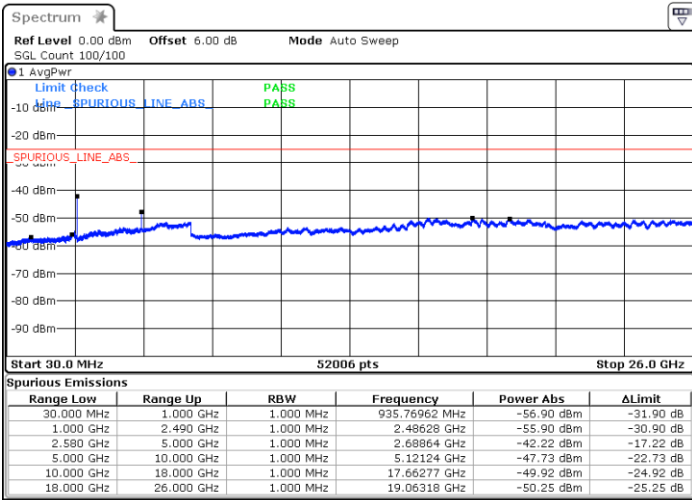
Date: 14.NOV.2022 14:58:24



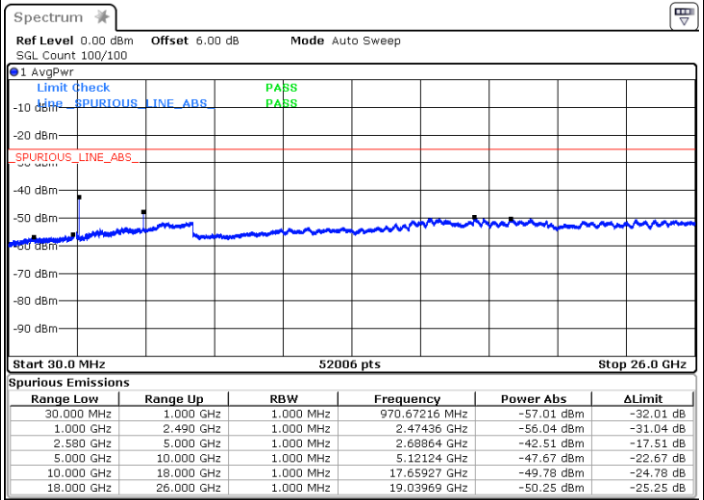
FR1 n7 / 10MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

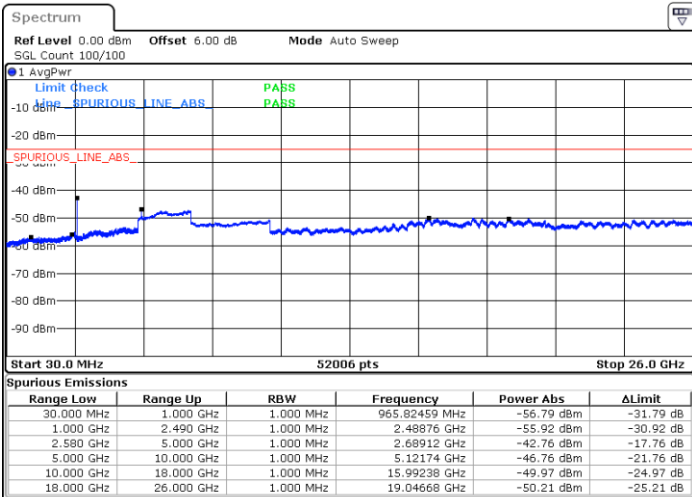


Date: 21.NOV.2022 17:50:29



Date: 21.NOV.2022 17:49:35

Highest Channel / 1RB1



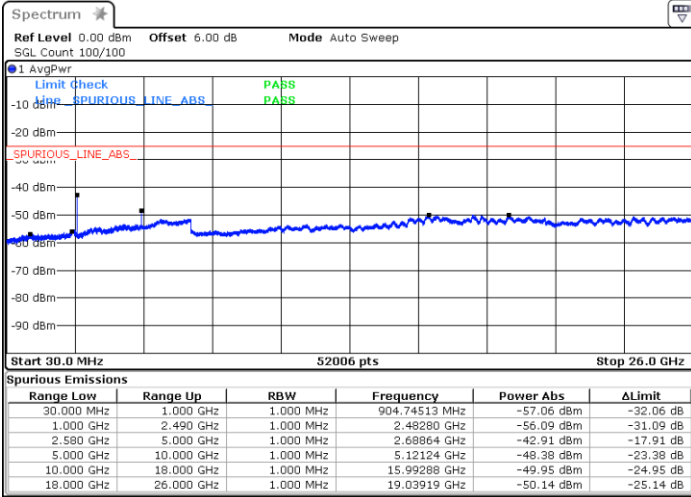
Date: 21.NOV.2022 17:43:16



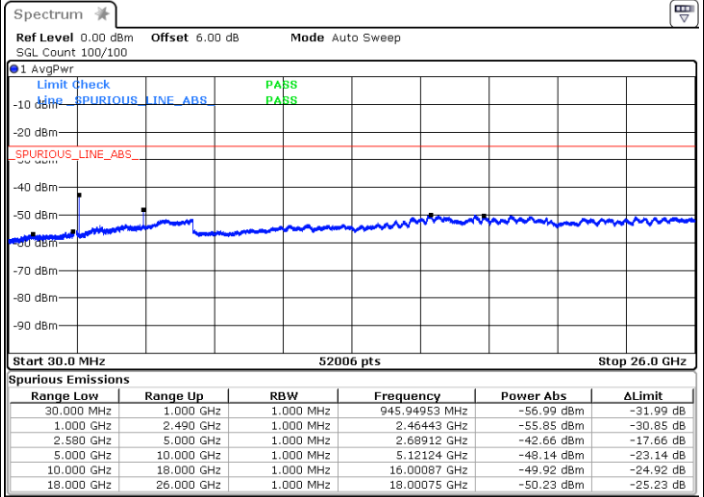
FR1 n7 / 10MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

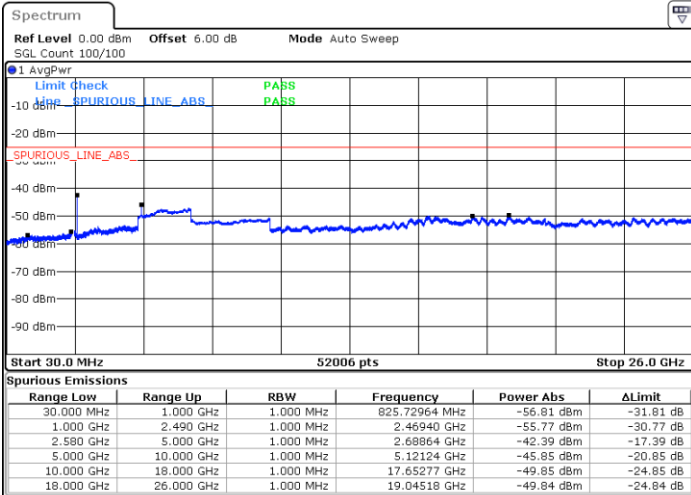


Date: 21.NOV.2022 17:51:24



Date: 21.NOV.2022 17:47:33

Highest Channel / 1RB1



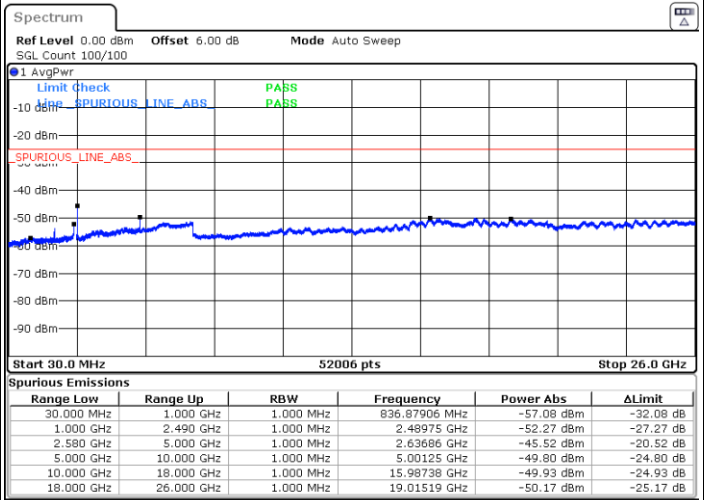
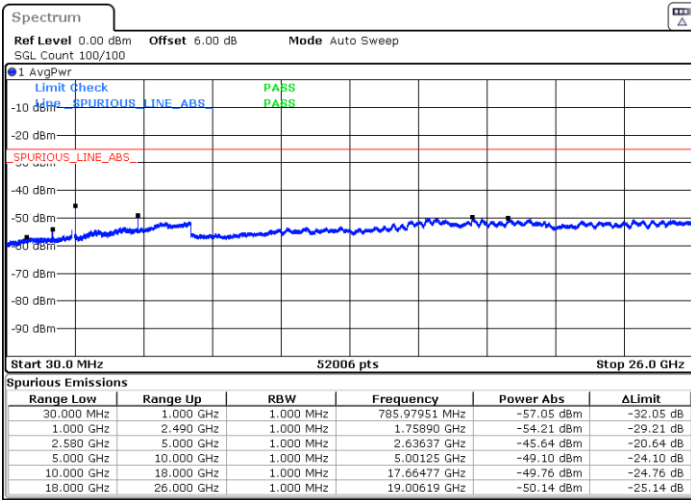
Date: 21.NOV.2022 17:44:32



FR1 n7 / 20MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

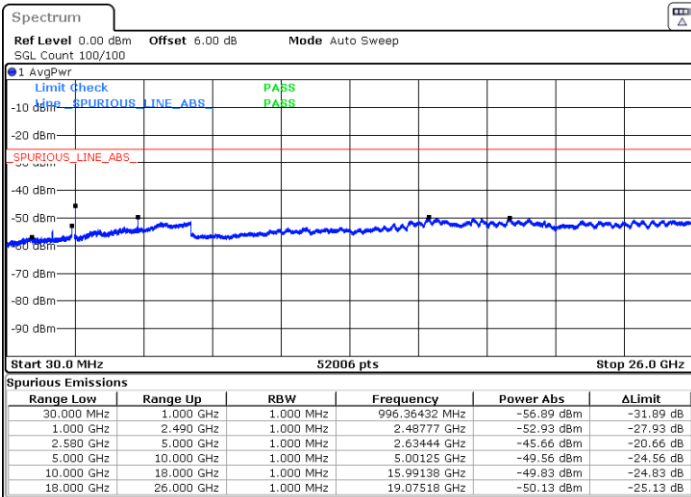
Middle Channel / 1RB1



Date: 14.NOV.2022 15:46:50

Date: 14.NOV.2022 15:47:53

Highest Channel / 1RB1



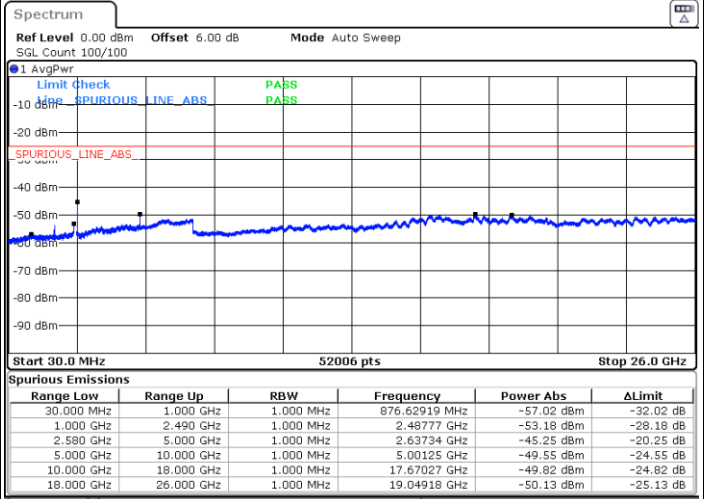
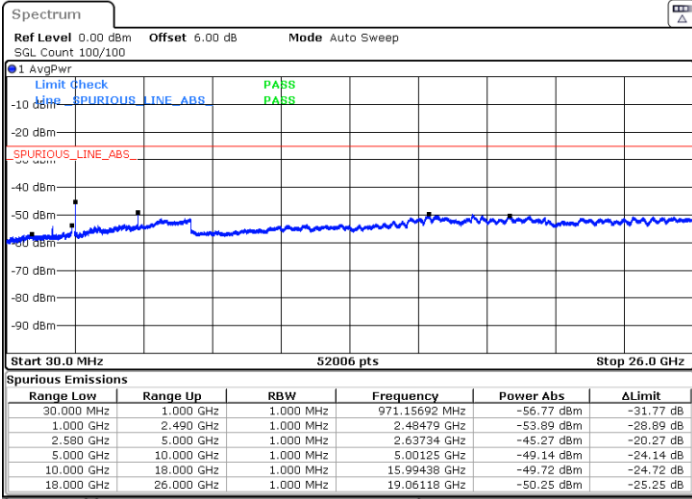
Date: 14.NOV.2022 15:50:37



FR1 n7 / 20MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

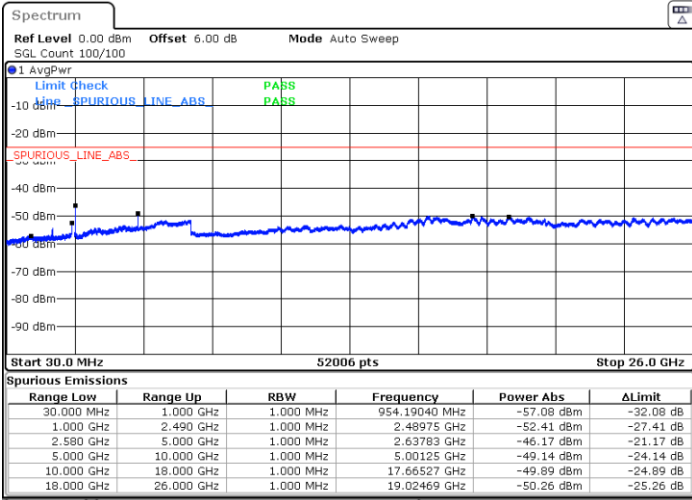
Middle Channel / 1RB1



Date: 14.NOV.2022 15:46:03

Date: 14.NOV.2022 15:48:50

Highest Channel / 1RB1



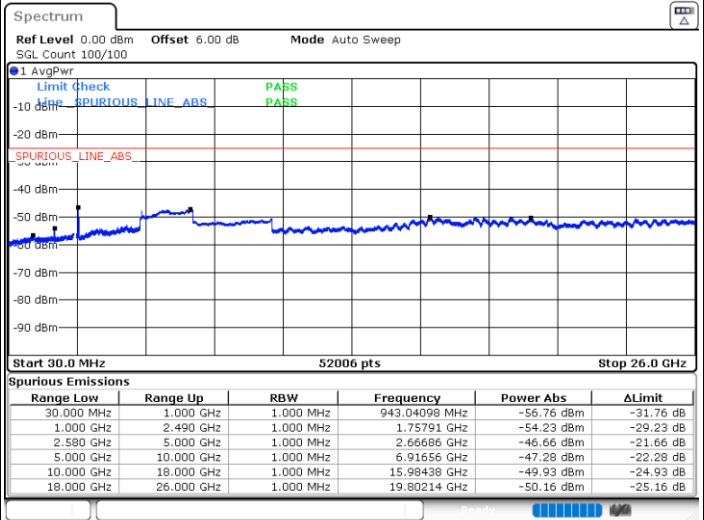
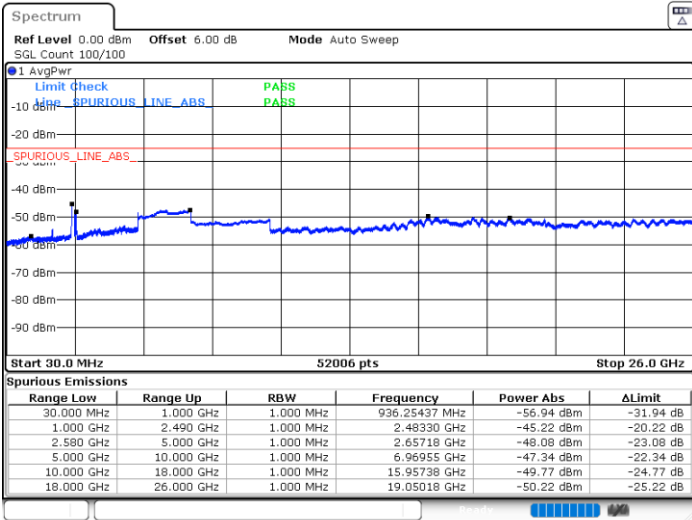
Date: 14.NOV.2022 15:49:41



FR1 n7 / 40MHz / DFT-S OFDM / BPSK

Lowest Channel / 1RB1

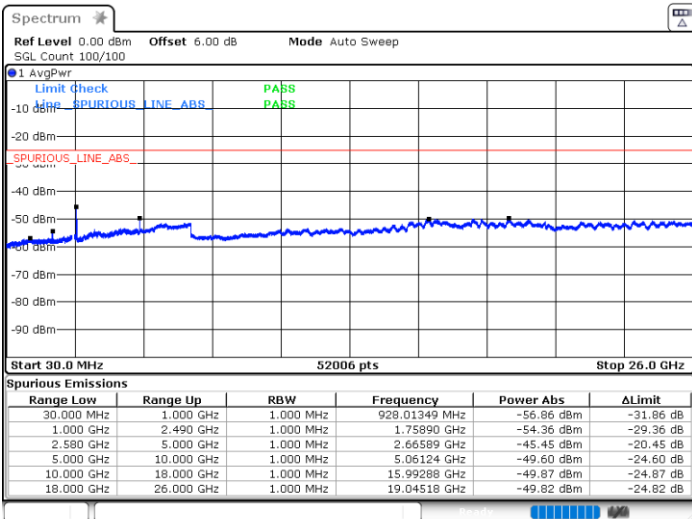
Middle Channel / 1RB1



Date: 14.NOV.2022 16:00:25

Date: 14.NOV.2022 16:03:06

Highest Channel / 1RB1



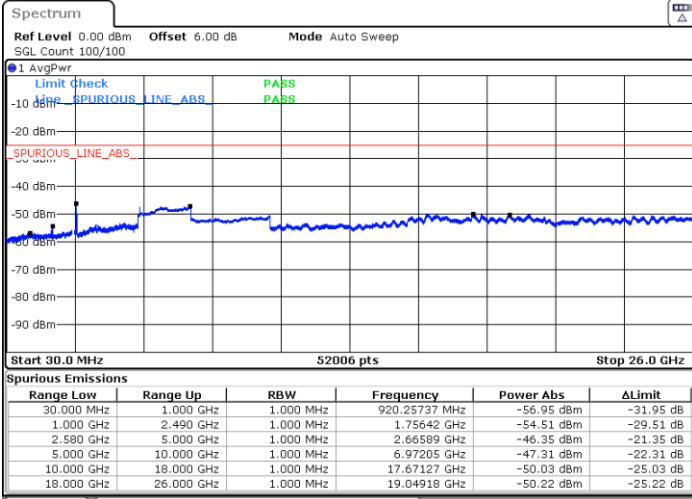
Date: 14.NOV.2022 16:05:06



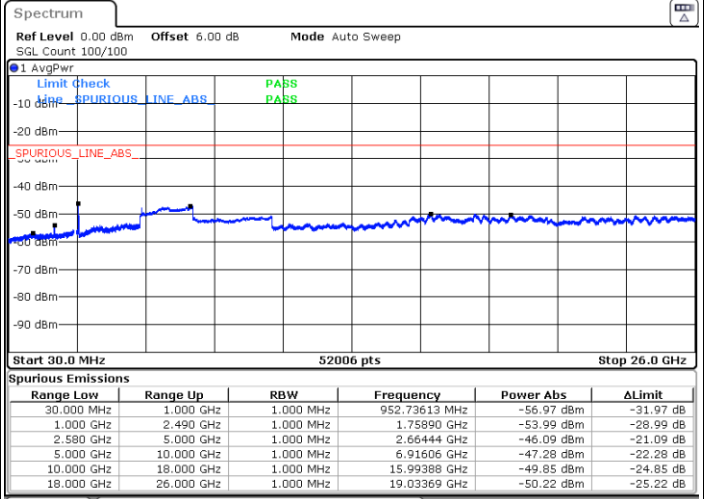
FR1 n7 / 40MHz / DFT-S OFDM / QPSK

Lowest Channel / 1RB1

Middle Channel / 1RB1

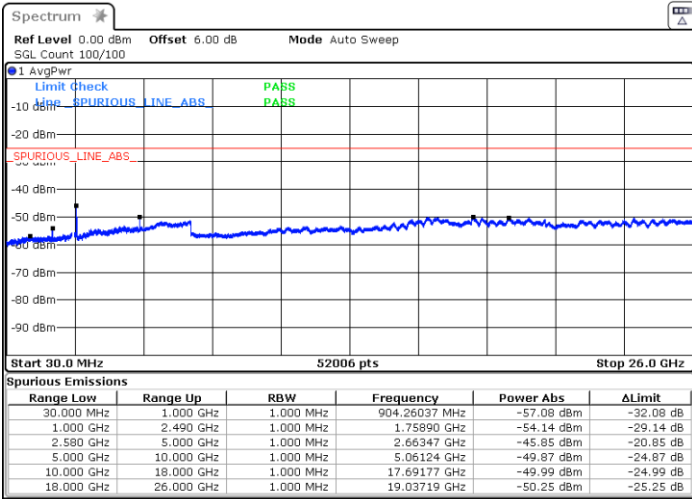


Date: 14.NOV.2022 16:01:13



Date: 14.NOV.2022 16:02:06

Highest Channel / 1RB1



Date: 14.NOV.2022 16:06:34



Frequency Stability

Test Conditions		FR1 n7 (QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	BW 40MHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0031	PASS
40	Normal Voltage	0.0015	
30	Normal Voltage	0.0019	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0014	
0	Normal Voltage	0.0025	
-10	Normal Voltage	0.0026	
-20	Normal Voltage	0.0021	
-30	Normal Voltage	0.0022	
20	Maximum Voltage	0.0035	
20	Normal Voltage	0.0016	
20	Battery End Point	0.0020	

Note:

1. Normal Voltage =3.89 V. ; Battery End Point (BEP) =3.4 V. ; Maximum Voltage =4.48 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



FR1 n38

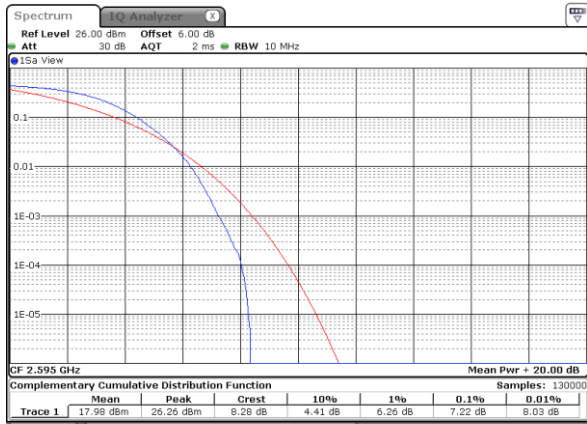
Peak-to-Average Ratio

Mode	FR1 n38 / 10MHz / DFT-S OFDM		
Mod.	PI/2 BPSK	QPSK	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	7.22	8.17	PASS
Mode	FR1 n38 / 15MHz / DFT-S OFDM		
Mod.	PI/2 BPSK	QPSK	Limit: 13dB
RB Size	Full RB	Full RB	Result
Middle CH	7.07	8.58	PASS



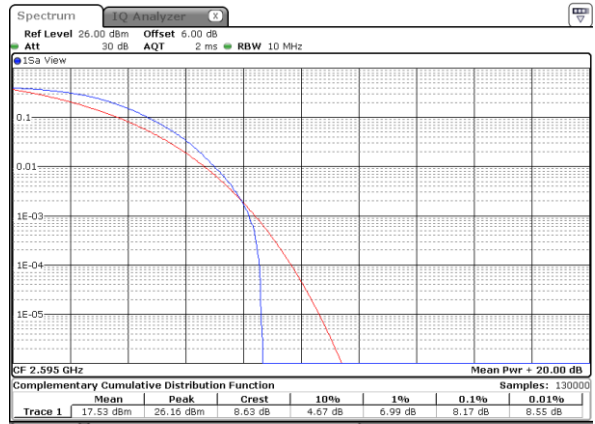
FR1 n38 / 10MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



Date: 12. DEC. 2022 21:23:13

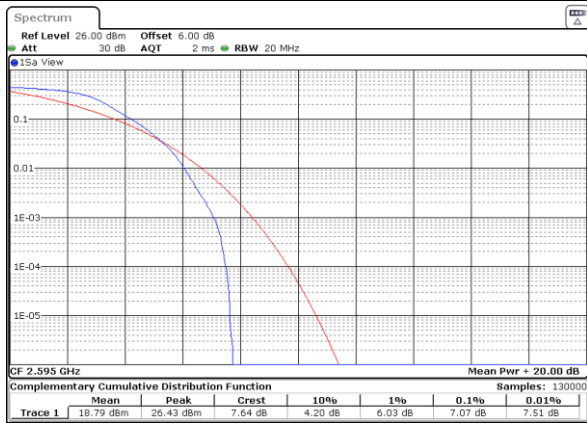
QPSK



Date: 12. DEC. 2022 21:23:32

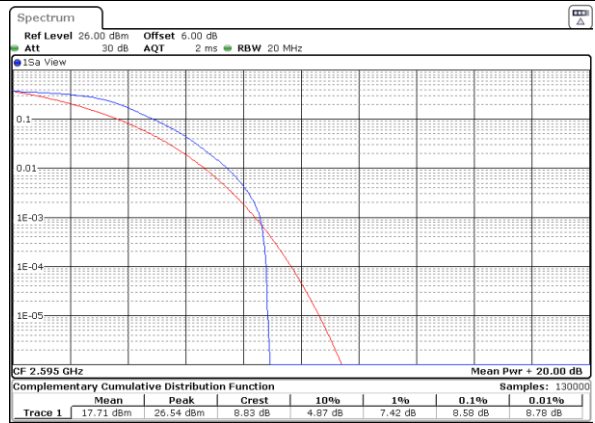
FR1 n38 / 15MHz / DFT-S OFDM / Middle Channel / Full RB

PI/2 BPSK



Date: 15. DEC. 2022 09:34:06

QPSK



Date: 15. DEC. 2022 09:34:32