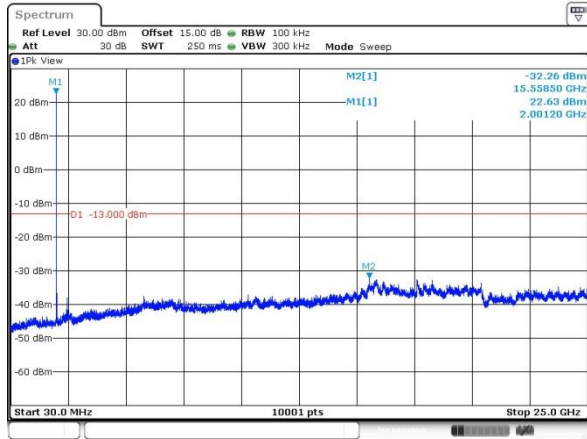
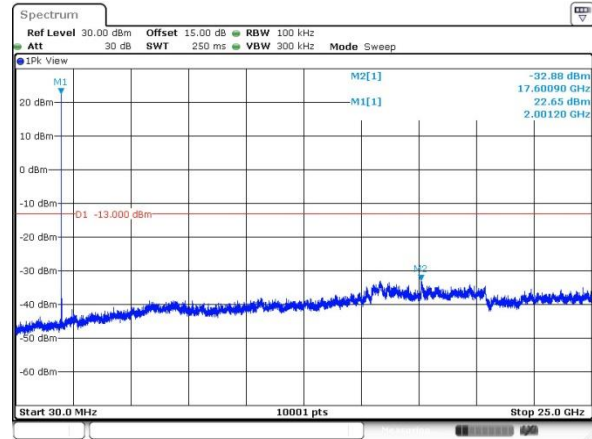
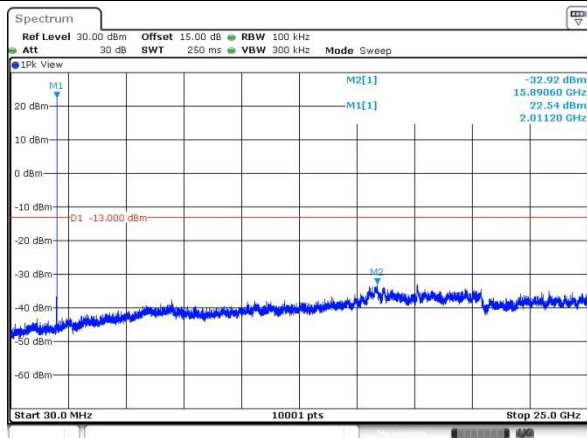


**Conducted Spurious Emission****Band 23 SCS 3.75kHz****Lowest Channel / 1SC1 / BPSK**

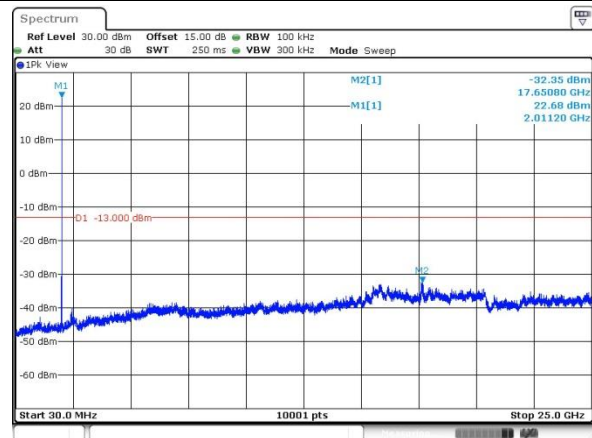
Date: 9.FEB.2023 10:37:50

Lowest Channel / 1SC1 / QPSK

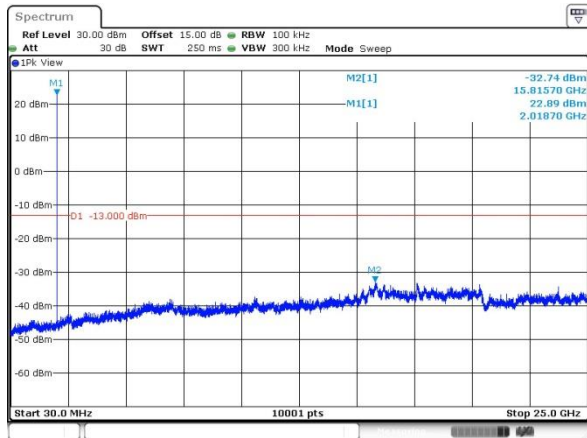
Date: 9.FEB.2023 10:40:08

Middle Channel / 1SC1 / BPSK

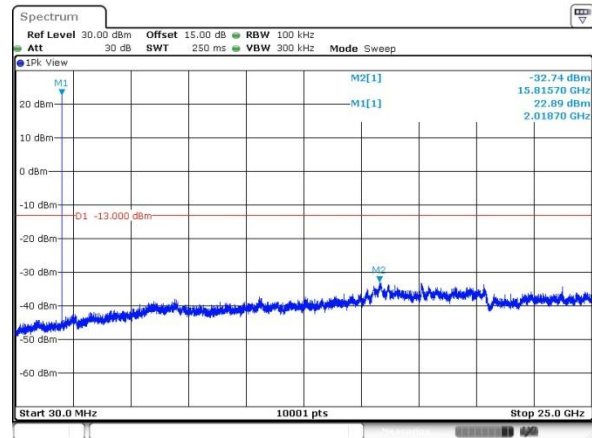
Date: 9.FEB.2023 09:40:30

Middle Channel / 1SC1 / QPSK

Date: 9.FEB.2023 09:42:42

Highest Channel / 1SC1 / BPSK

Date: 6.FEB.2023 15:51:08

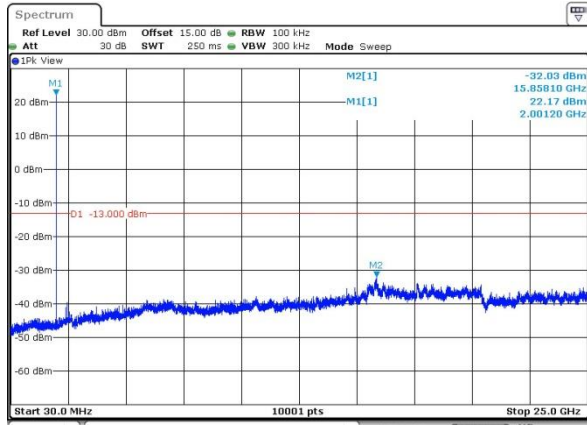
Highest Channel / 1SC1 / QPSK

Date: 6.FEB.2023 15:51:08



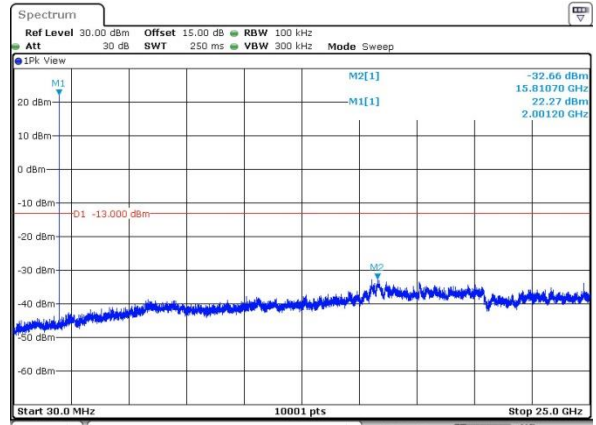
Band 23 SCS 15kHz

Lowest Channel / 1SC1 / BPSK



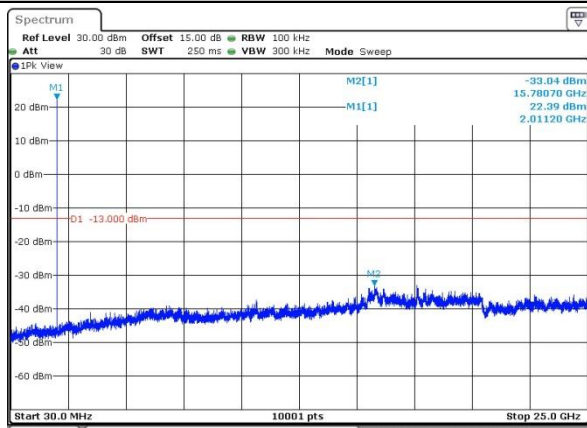
Date: 9.FEB.2023 11:35:48

Lowest Channel / 1SC1 / QPSK



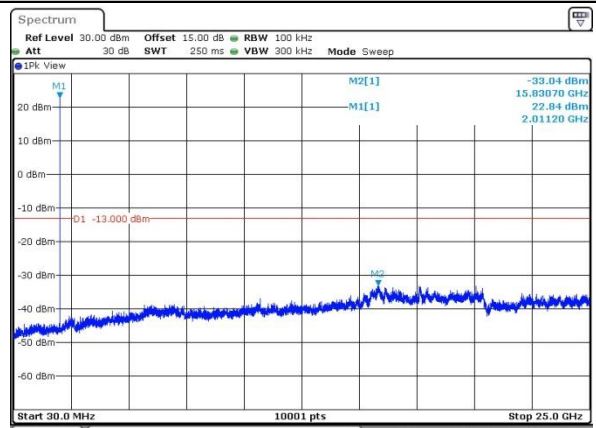
Date: 9.FEB.2023 11:37:18

Middle Channel / 1SC1 / BPSK



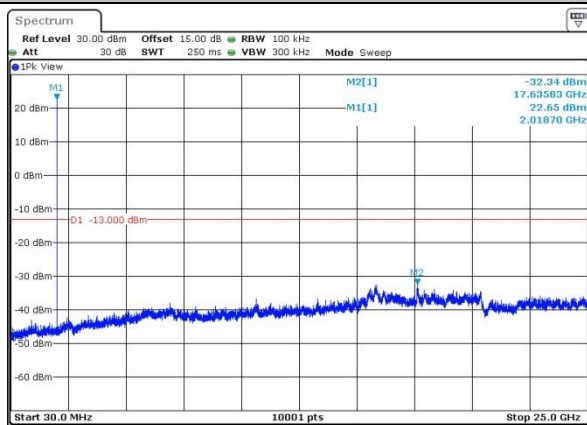
Date: 8.FEB.2023 17:13:46

Middle Channel / 1SC1 / QPSK



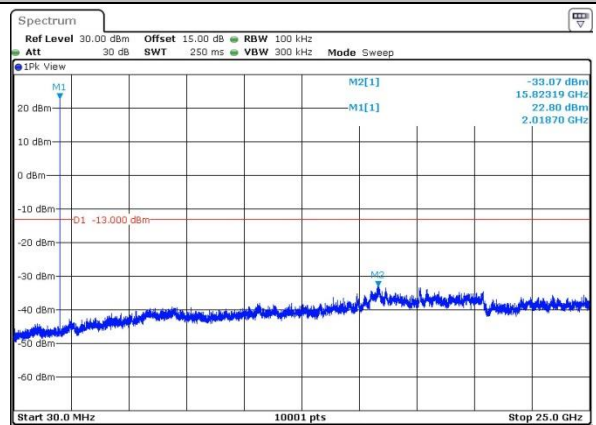
Date: 9.FEB.2023 06:49:26

Highest Channel / 1SC1 / BPSK

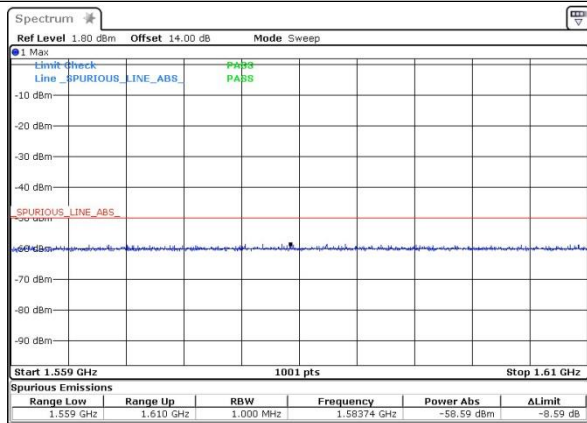


Date: 11.FEB.2023 15:31:07

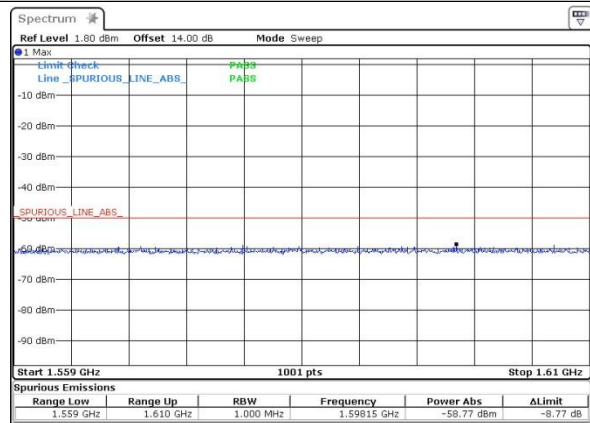
Highest Channel / 1SC1 / QPSK



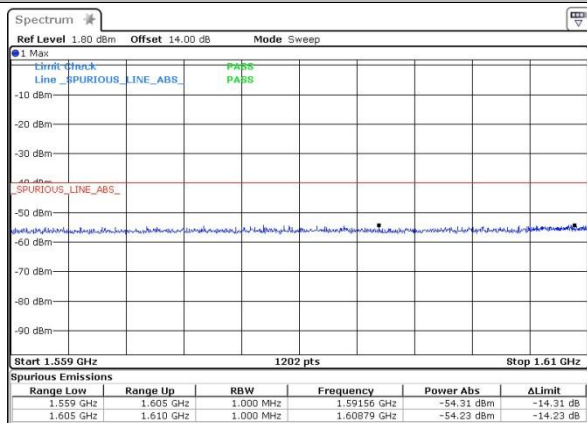
Date: 11.FEB.2023 15:32:16

**Emission limits for protection of aeronautical service****Band 23 SCS 3.75kHz****BPSK****Lowest Channel / 1SC1 Carrier off**

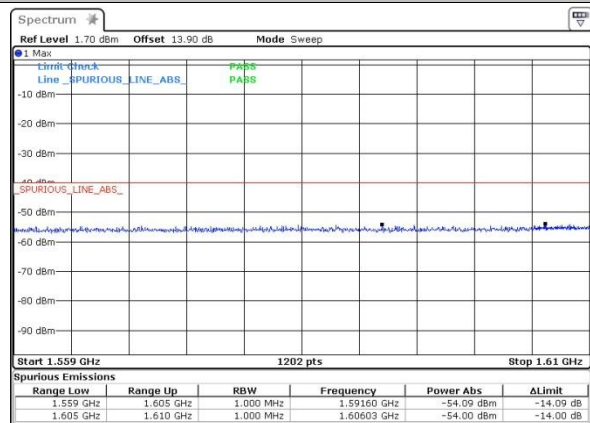
Date: 9.FEB.2023 11:11:06

Middle Channel / 1SC1 Carrier off

Date: 9.FEB.2023 10:02:05

Lowest Channel / 1SC1 Carrier on

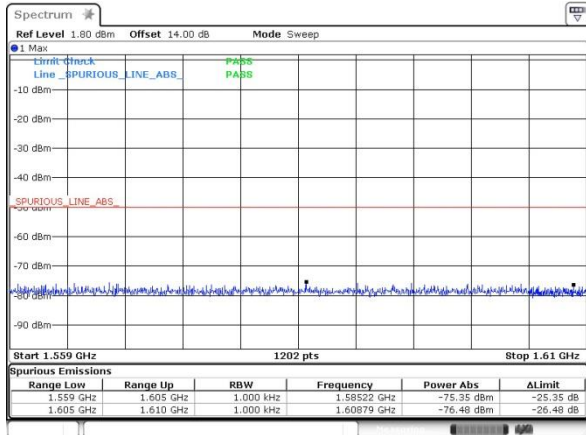
Date: 9.FEB.2023 10:53:15

Middle Channel / 1SC1 Carrier on

Date: 9.FEB.2023 09:56:54

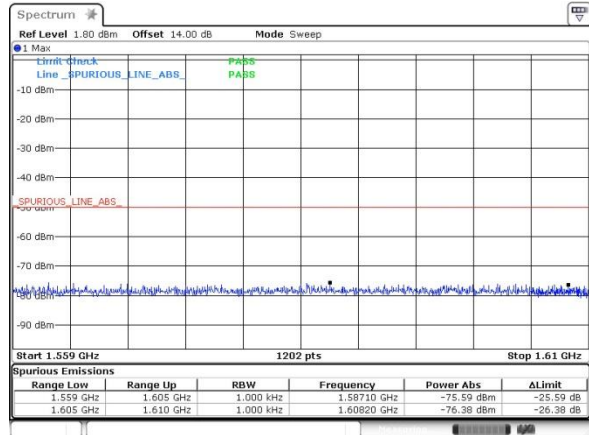


Lowest Channel / 1SC1 Discrete



Date: 9.FEB.2023 10:45:30

Middle Channel / 1SC1 Discrete



Date: 9.FEB.2023 09:47:46

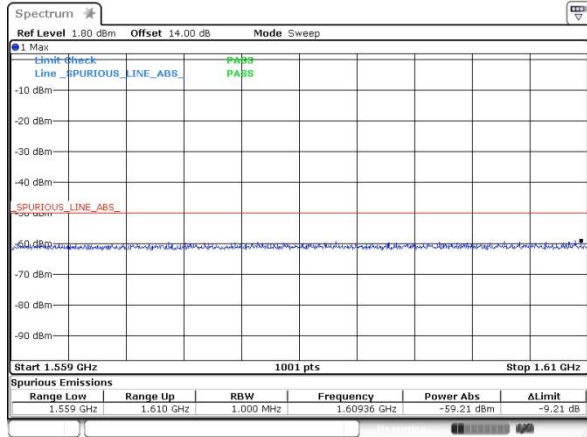


Band 23 SCS 3.75kHz

BPSK

Highest Channel / 1SC1 Carrier off

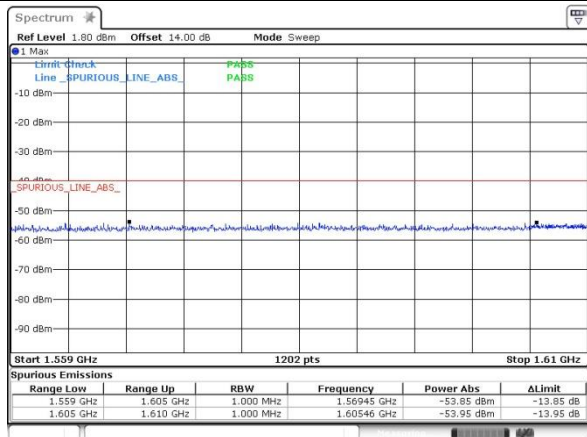
N/A



Date: 11.FEB.2023 16:28:10

Highest Channel / 1SC1 Carrier on

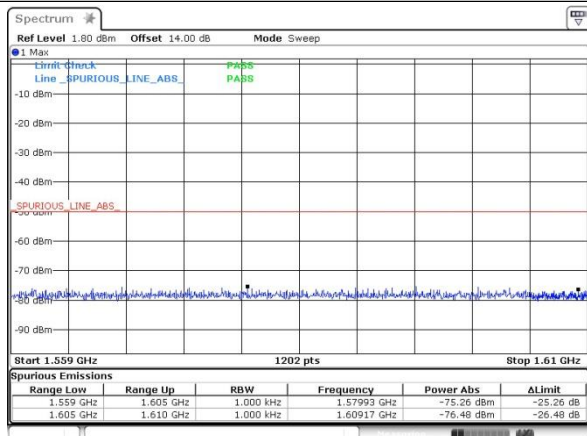
N/A



Date: 6.FEB.2023 15:10:21

Highest Channel / 1SC1 Discrete

N/A



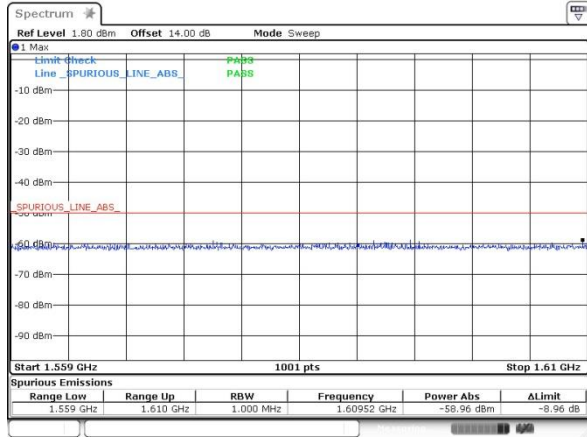
Date: 6.FEB.2023 15:14:33



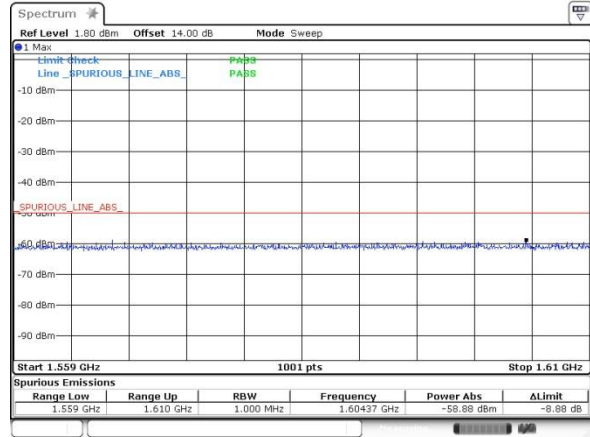
Band 23 SCS 15kHz

BPSK

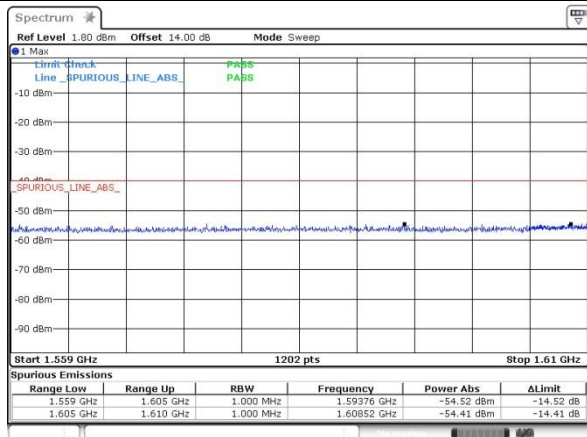
Lowest Channel / 1SC1 Carrier off



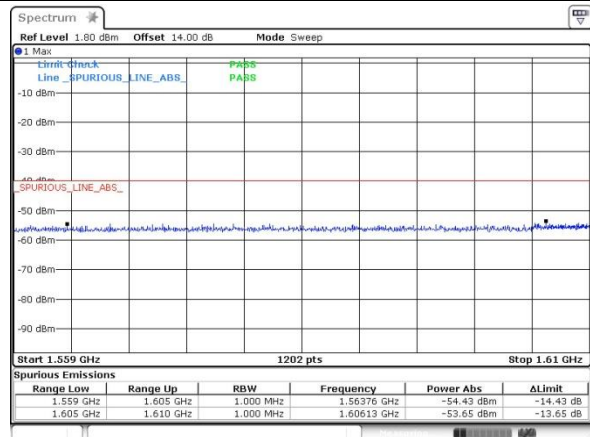
Middle Channel / 1SC1 Carrier off



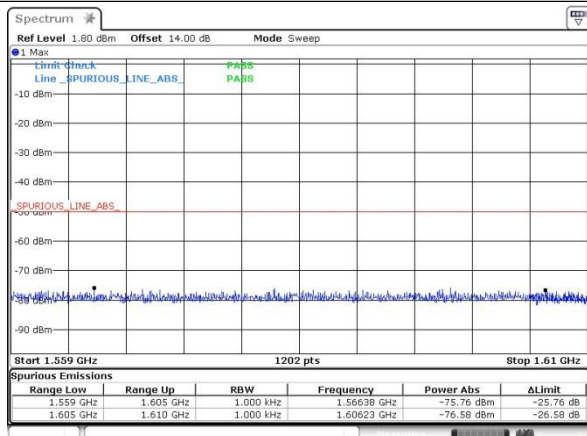
Lowest Channel / 1SC1 Carrier on



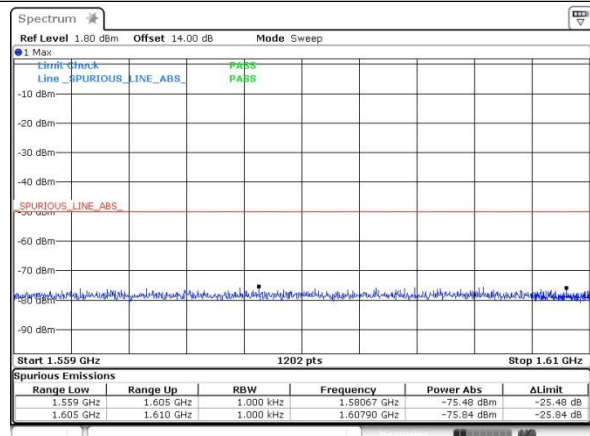
Middle Channel / 1SC1 Carrier on



Lowest Channel / 1SC1 Discrete



Middle Channel / 1SC1 Discrete



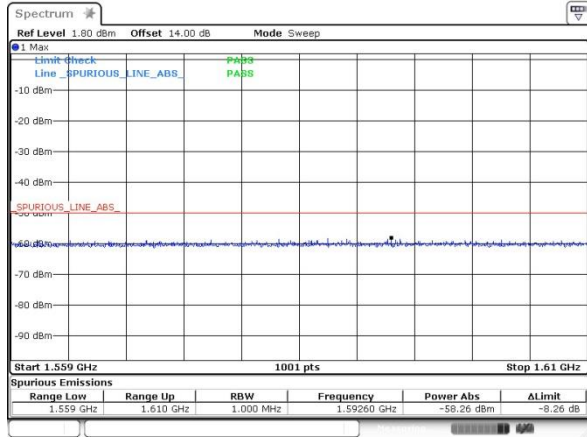


Band 23 SCS 15kHz

BPSK

Highest Channel / 1SC1 Carrier off

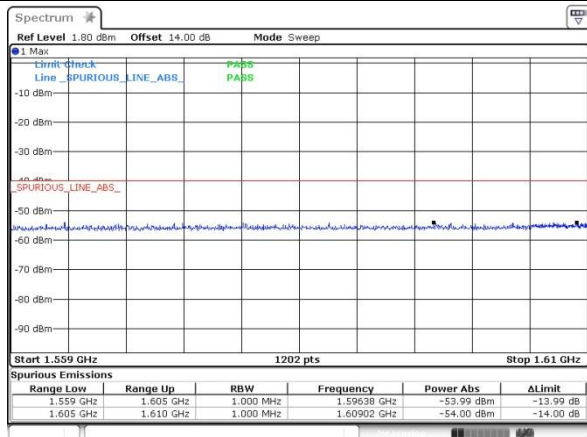
N/A



Date: 6.FEB.2023 14:42:00

Highest Channel / 1SC1 Carrier on

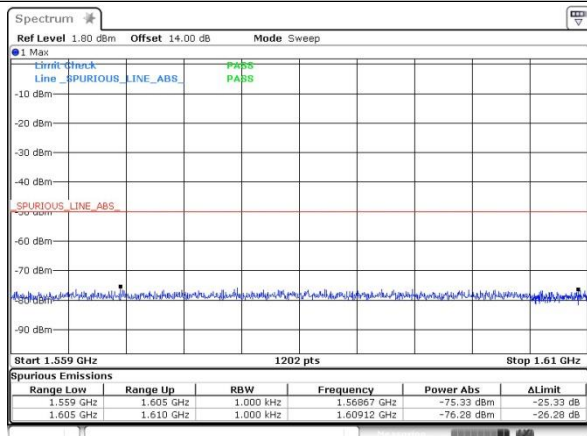
N/A



Date: 6.FEB.2023 14:01:42

Highest Channel / 1SC1 Discrete

N/A



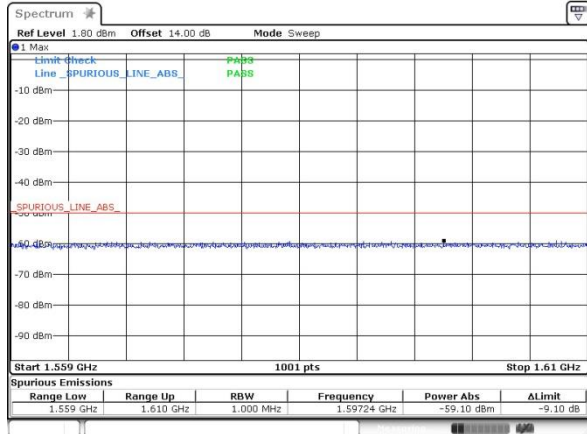
Date: 6.FEB.2023 15:07:56



Band 23 SCS 3.75kHz

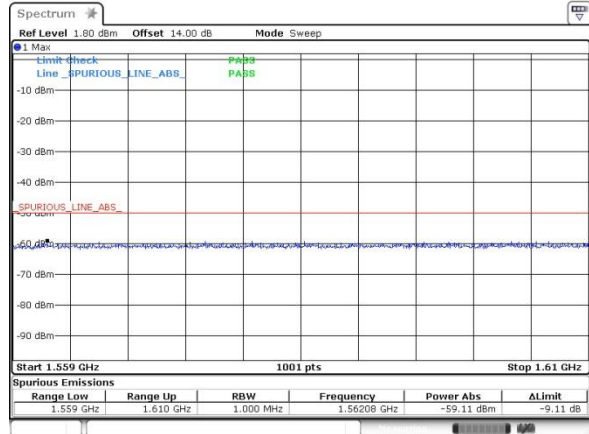
QPSK

Lowest Channel / 1SC1 Carrier off



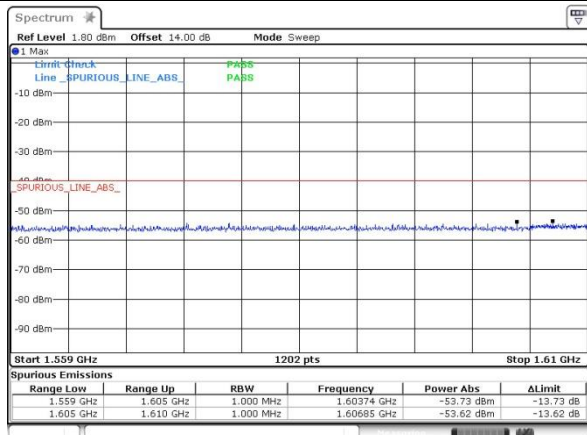
Date: 9.FEB.2023 11:13:26

Middle Channel / 1SC1 Carrier off



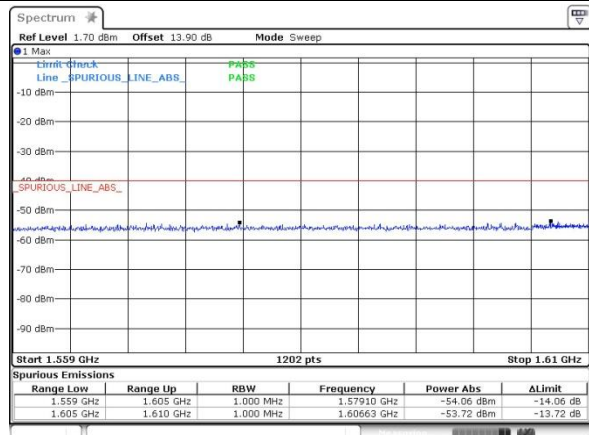
Date: 9.FEB.2023 10:03:51

Lowest Channel / 1SC1 Carrier on



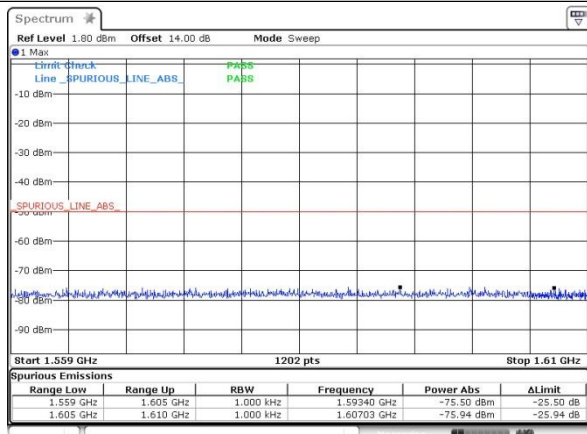
Date: 9.FEB.2023 10:50:19

Middle Channel / 1SC1 Carrier on



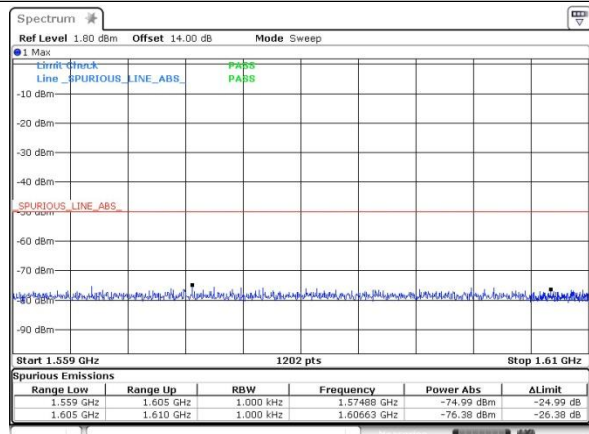
Date: 9.FEB.2023 09:52:10

Lowest Channel / 1SC1 Discrete



Date: 9.FEB.2023 10:49:08

Middle Channel / 1SC1 Discrete



Date: 9.FEB.2023 09:50:49

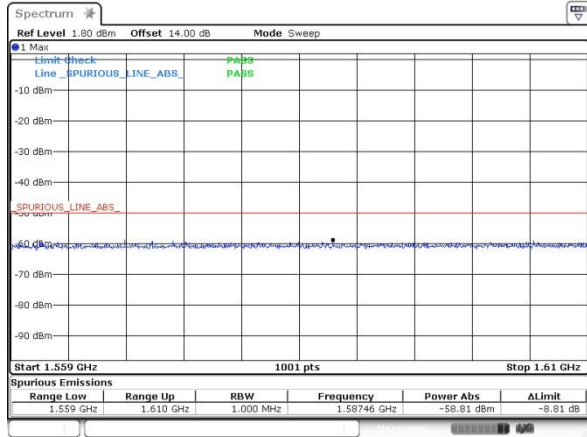


Band 23 SCS 3.75kHz

QPSK

Highest Channel / 1SC1 Carrier off

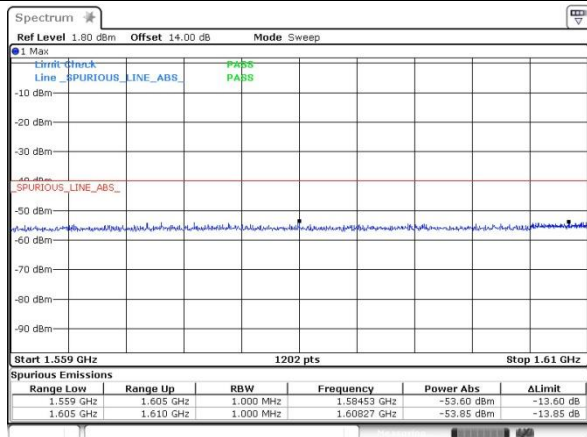
N/A



Date: 6.FEB.2023 15:37:03

Highest Channel / 1SC1 Carrier on

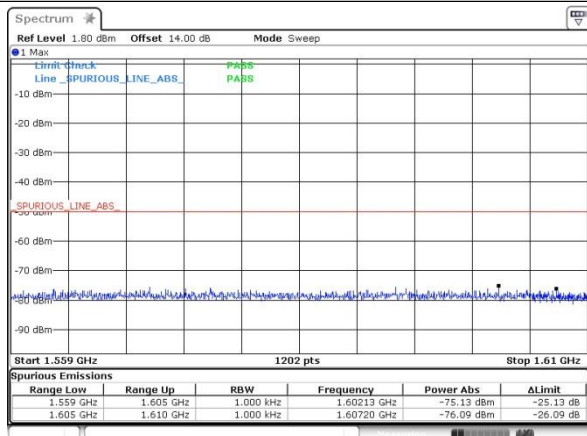
N/A



Date: 6.FEB.2023 15:20:12

Highest Channel / 1SC1 Discrete

N/A



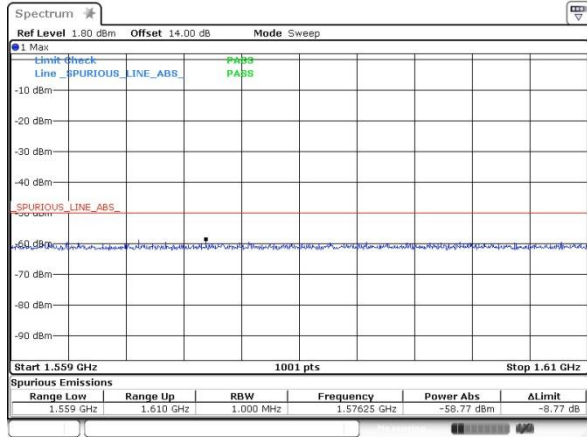
Date: 6.FEB.2023 15:18:49



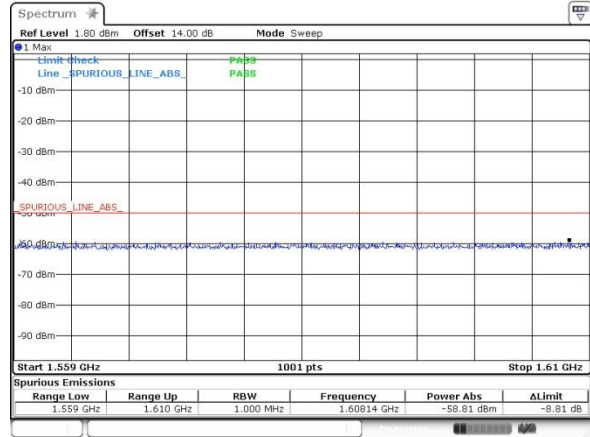
Band 23 SCS 15kHz

QPSK

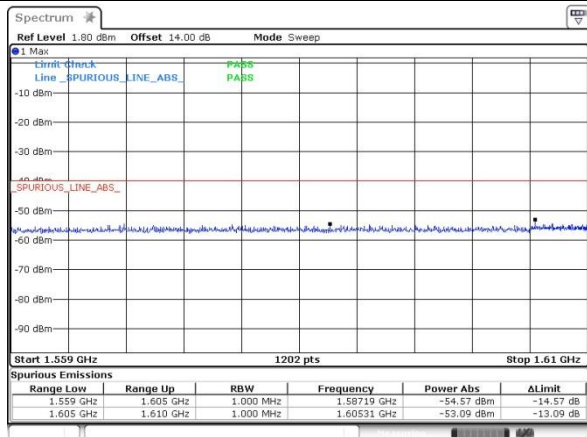
Lowest Channel / 1SC1 Carrier off



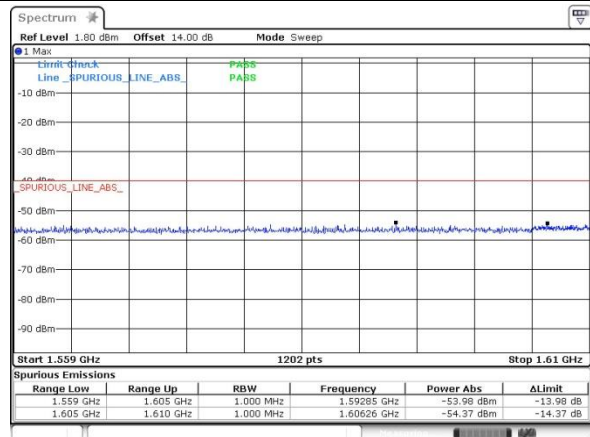
Middle Channel / 1SC1 Carrier off



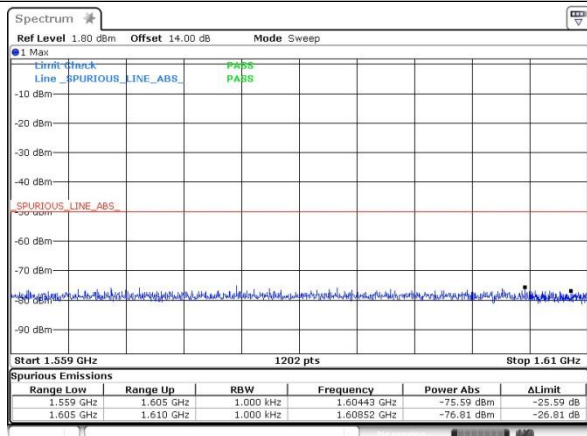
Lowest Channel / 1SC1 Carrier on



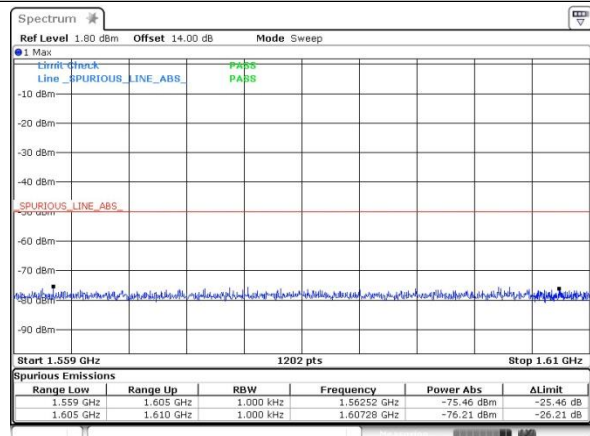
Middle Channel / 1SC1 Carrier on



Lowest Channel / 1SC1 Discrete



Middle Channel / 1SC1 Discrete



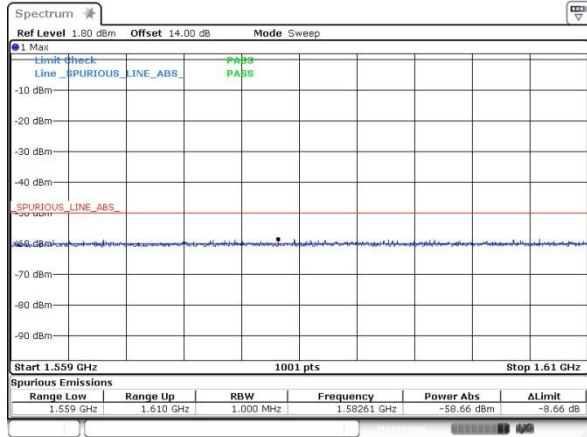


Band 23 SCS 15kHz

QPSK

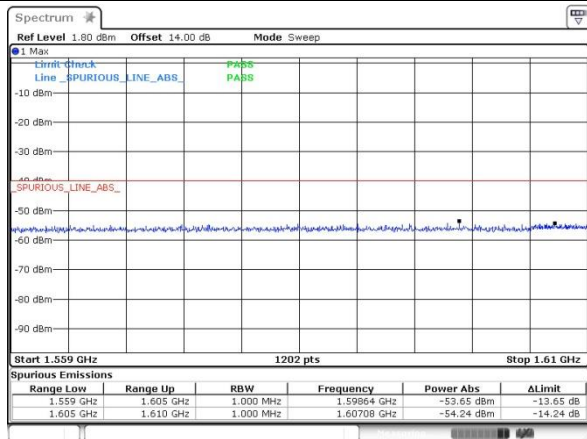
Highest Channel / 1SC1 Carrier off

N/A



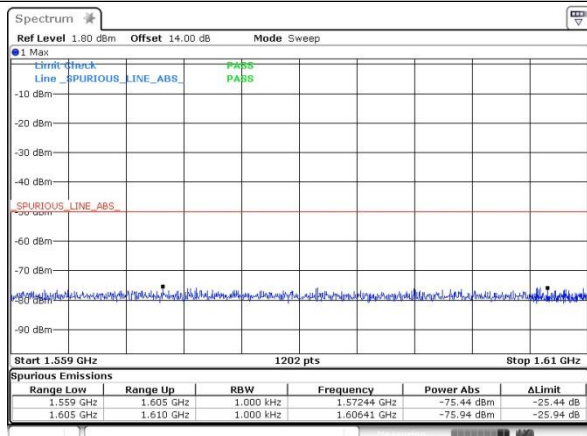
Highest Channel / 1SC1 Carrier on

N/A



Highest Channel / 1SC1 Discrete

N/A



**Frequency Stability**

Test Conditions		Band 23(QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	SCS 15kHz	10ppm
		Deviation (ppm)	Result
55	Normal Voltage	0.0010	PASS
50	Normal Voltage	0.0010	
40	Normal Voltage	0.0189	
30	Normal Voltage	0.0010	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0001	
0	Normal Voltage	0.0004	
-10	Normal Voltage	0.0194	
-20	Normal Voltage	0.0204	
-30	Normal Voltage	0.0006	
20	Maximum Voltage	0.0001	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0002	

Note: Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.5 V. ; Maximum Voltage =4.35 V.

Band 255

Conducted Output Power (Average power) and EIRP

Band 255 SCS 3.75kHz							Limit	
Test Frequency (MHz)	SC Size	Conducted Power (dBm)		Antenna Gain (dBi)		EIRP Power (dBm)		Result
		BPSK	QPSK	BPSK	QPSK	BPSK	QPSK	
1626.7	1SC1	22.16	22.18	-0.7		21.46	21.48	PASS
	1SC46	22.07	22.17	-0.7		21.37	21.47	
1643.3	1SC1	22.29	22.37	-0.7		21.59	21.67	
	1SC46	22.35	22.43	-0.7		21.65	21.73	
1659.9	1SC1	22.19	22.38	-0.7		21.49	21.68	
	1SC46	22.12	22.35	-0.7		21.42	21.65	

Band 255 SCS 15kHz							Limit	
Test Frequency (MHz)	SC Size	Conducted Power (dBm)		Antenna Gain (dBi)		EIRP Power (dBm)		Result
		BPSK	QPSK	BPSK	QPSK	BPSK	QPSK	
1626.7	1SC1	22.31	22.41	-0.7		21.61	21.71	PASS
	1SC10	22.29	22.38	-0.7		21.59	21.68	
	3SC0	-	21.91	-0.7		-	21.21	
	3SC9	-	21.87	-0.7		-	21.17	
	6SC0	-	20.49	-0.7		-	19.79	
	6SC6	-	20.47	-0.7		-	19.77	
	12SC0	-	20.18	-0.7		-	19.48	
1643.3	1SC1	22.47	22.57	-0.7		21.77	21.87	
	1SC10	22.35	22.49	-0.7		21.65	21.79	
	3SC0	-	21.97	-0.7		-	21.27	
	3SC9	-	21.97	-0.7		-	21.27	
	6SC0	-	20.59	-0.7		-	19.89	
	6SC6	-	20.51	-0.7		-	19.81	
	12SC0	-	20.37	-0.7		-	19.67	
1659.9	1SC1	22.29	22.49	-0.7		21.59	21.79	
	1SC10	22.24	22.45	-0.7		21.54	21.75	
	3SC0	-	21.94	-0.7		-	21.24	
	3SC9	-	21.82	-0.7		-	21.12	
	6SC0	-	20.56	-0.7		-	19.86	
	6SC6	-	20.52	-0.7		-	19.82	
	12SC0	-	20.35	-0.7		-	19.65	

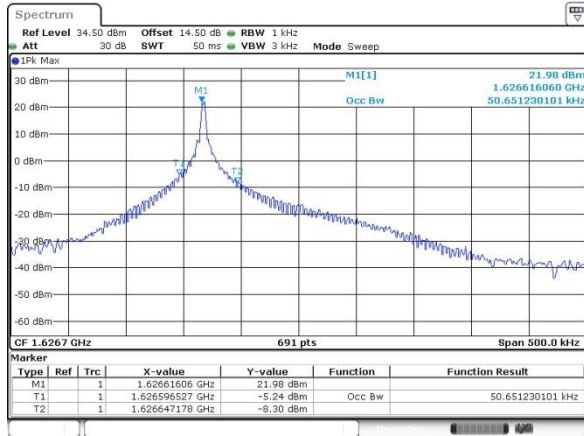
**Occupied Bandwidth**

Mode	Band 255 : 99%OBW(kHz)						
SCS	3.75kHz		15kHz				
Mod.	BPSK	QPSK	BPSK	QPSK	QPSK	QPSK	QPSK
SC Size	1SC1	1SC1	1SC1	1SC1	3SC0	6SC0	12SC0
Lowest CH	50.651	51.375	119.392	111.433	109.262	137.482	180.174
Middle CH	50.651	50.651	113.603	111.433	108.538	135.311	180.174
Highest CH	50.651	50.651	114.327	111.433	106.368	134.588	180.174

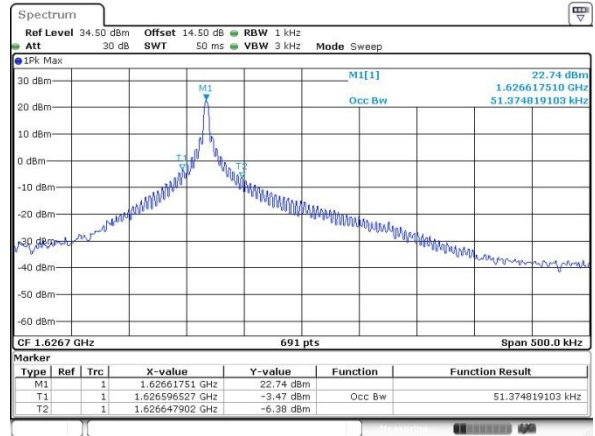


Band 255 SCS 3.75kHz

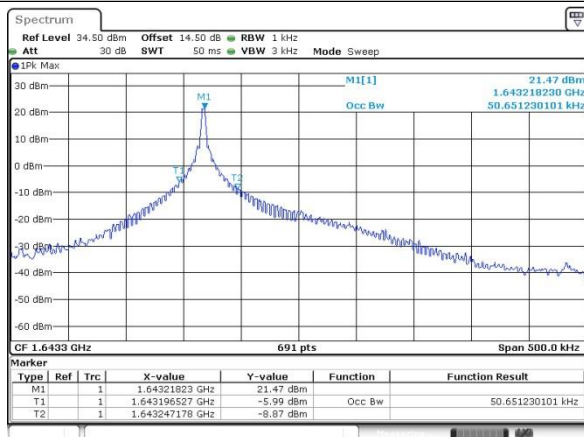
Lowest Channel / 1SC1 / BPSK



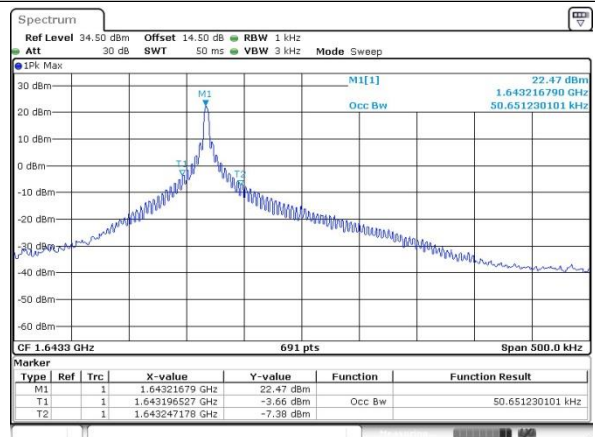
Lowest Channel / 1SC1 / QPSK



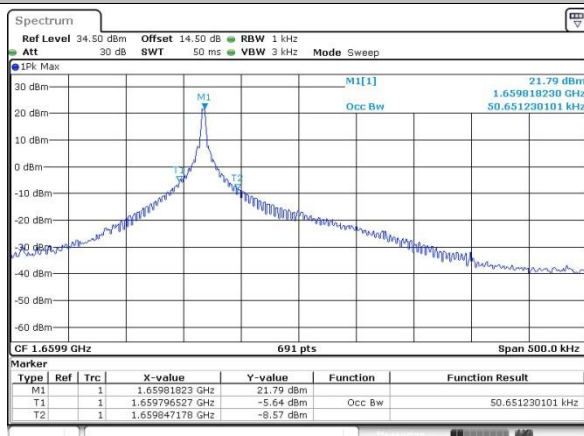
Middle Channel / 1SC1 / BPSK



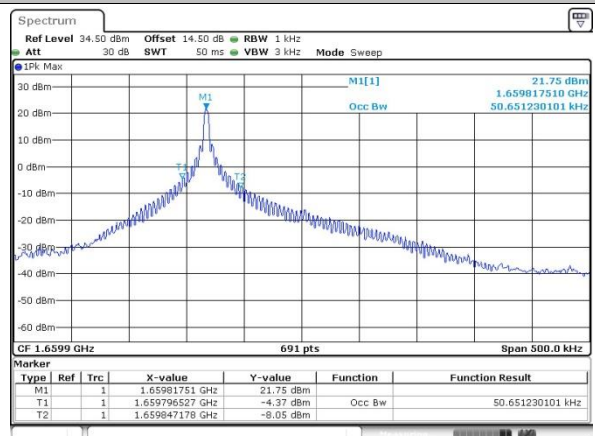
Middle Channel / 1SC1 / QPSK



Highest Channel / 1SC1 / BPSK



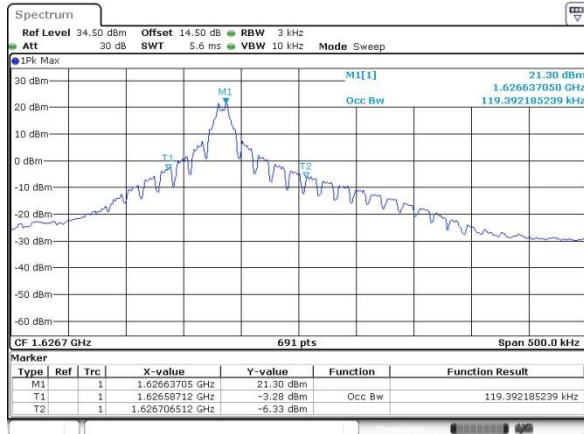
Highest Channel / 1SC1 / QPSK



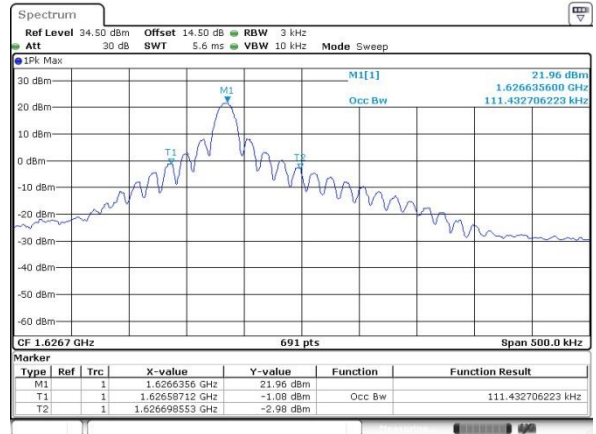


Band 255 SCS 15kHz

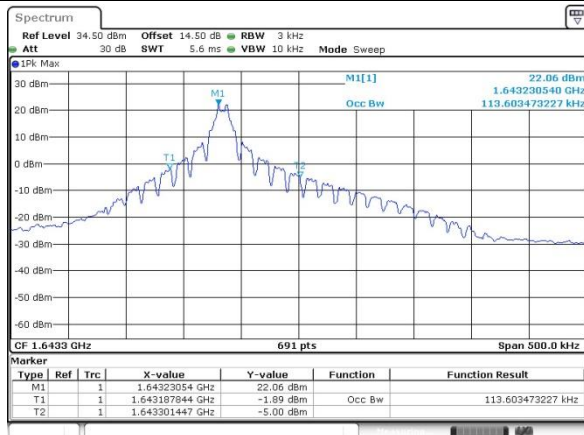
Lowest Channel / 1SC1 / BPSK



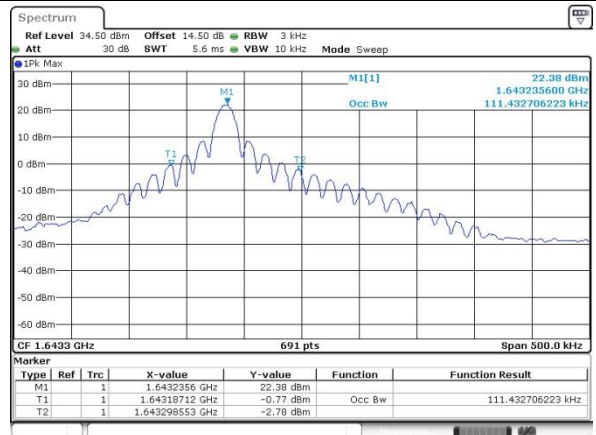
Lowest Channel / 1SC1 / QPSK



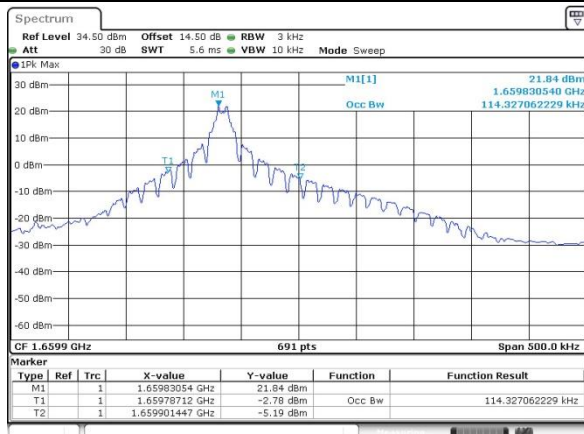
Middle Channel / 1SC1 / BPSK



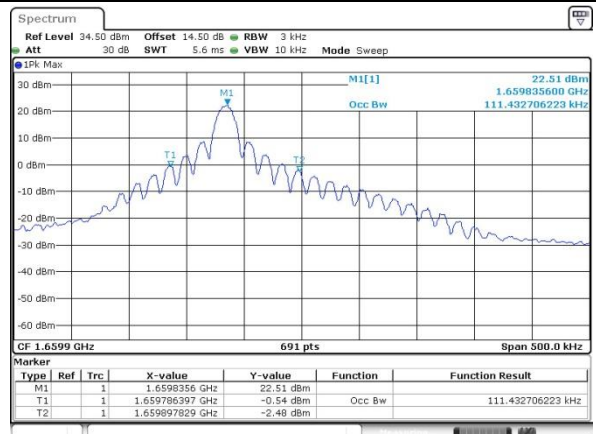
Middle Channel / 1SC1 / QPSK



Highest Channel / 1SC1 / BPSK



Highest Channel / 1SC1 / QPSK

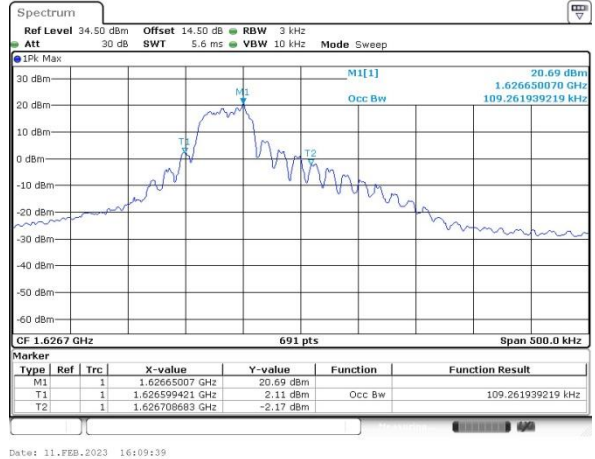




Band 255 SCS 15kHz

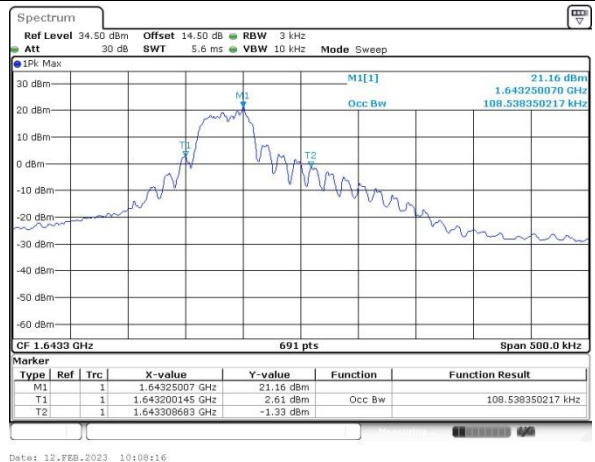
N/A

Lowest Channel / 3SC0 / QPSK



N/A

Middle Channel / 3SC0 / QPSK



N/A

Highest Channel / 3SC0 / QPSK

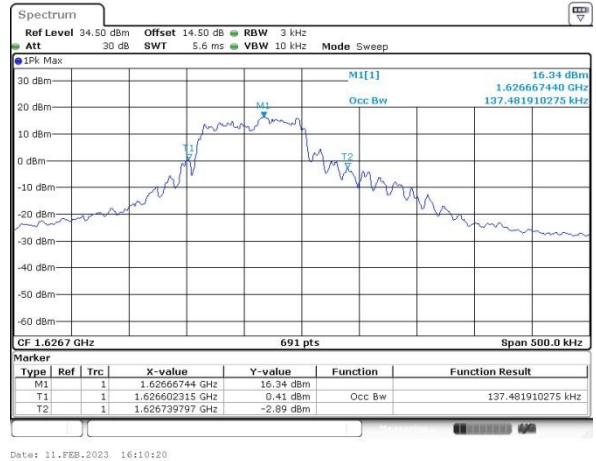




Band 255 SCS 15kHz

N/A

Lowest Channel / 6SC0 / QPSK



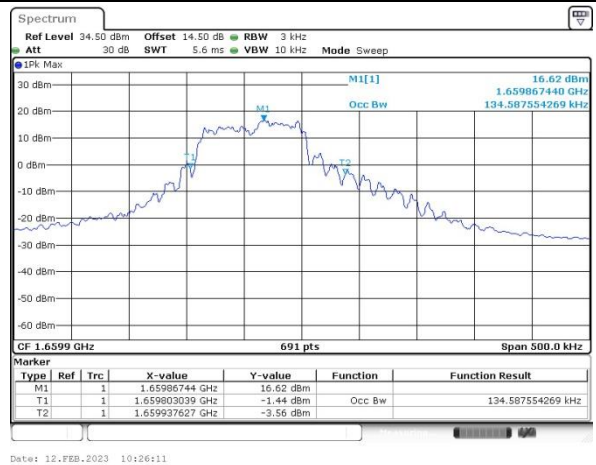
N/A

Middle Channel / 6SC0 / QPSK



N/A

Highest Channel / 6SC0 / QPSK





Band 255 SCS 15kHz

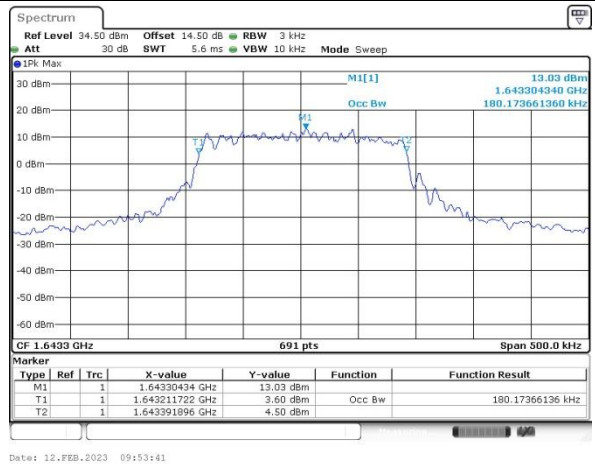
N/A

Lowest Channel / 12SC0 / QPSK



N/A

Middle Channel / 12SC0 / QPSK



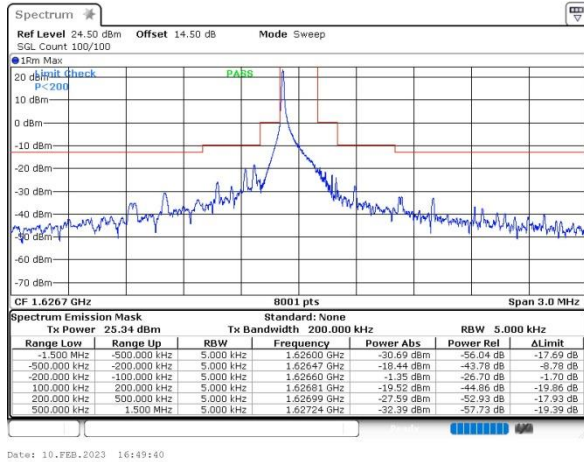
N/A

Highest Channel / 12SC0 / QPSK

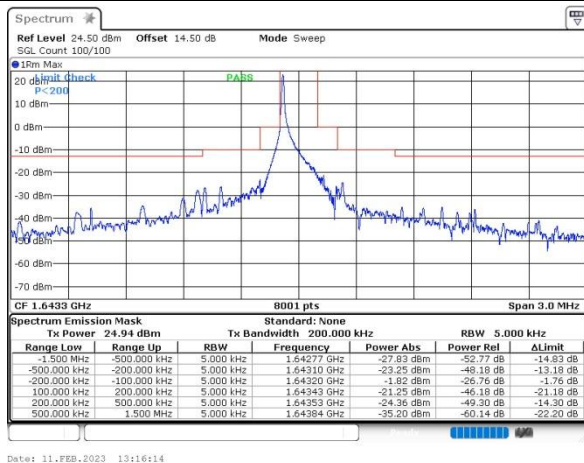


**Conducted Emissions Mask****Band 255 SCS 3.75kHz****Lowest Channel / 1SC1 / BPSK**

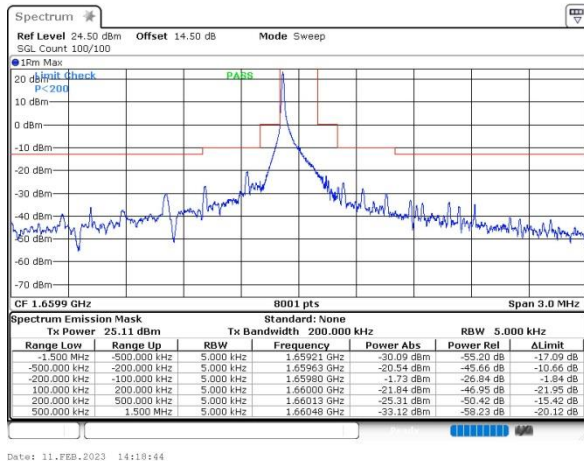
N/A

**Middle Channel / 1SC1 / BPSK**

N/A

**Highest Channel / 1SC1 / BPSK**

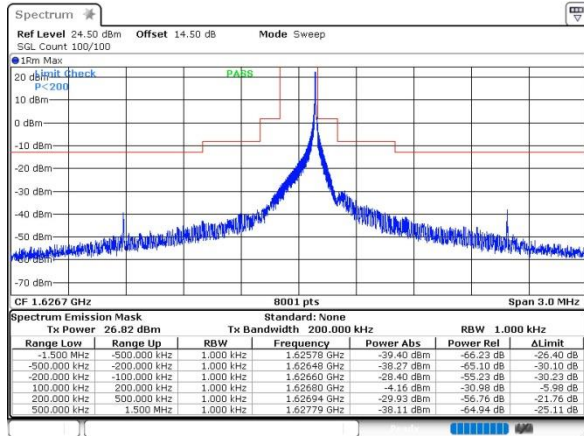
N/A



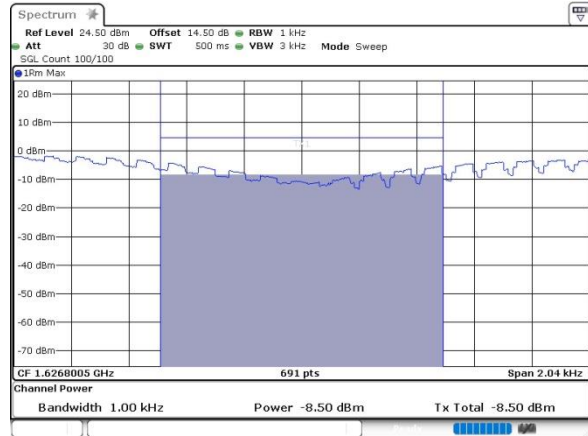


Band 255 SCS 3.75kHz

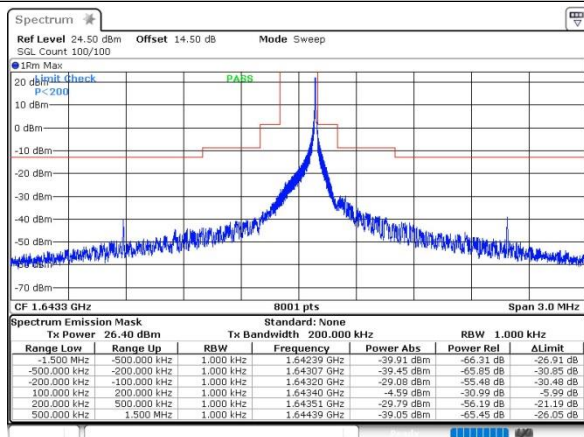
Lowest Channel / 1SC46 / BPSK



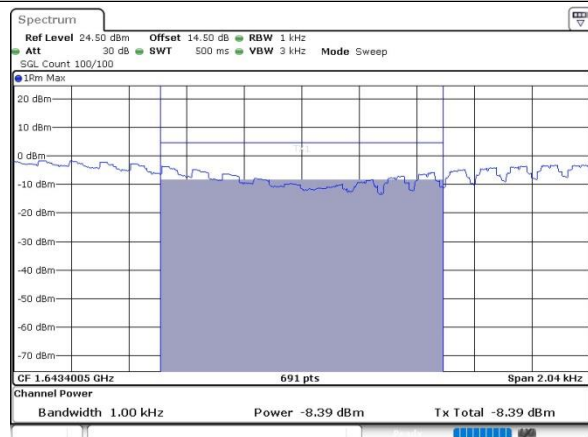
Lowest Channel / 1SC46 / BPSK-CP



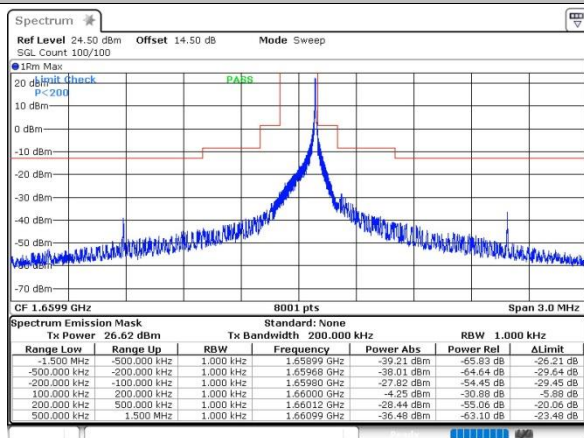
Middle Channel / 1SC46 / BPSK



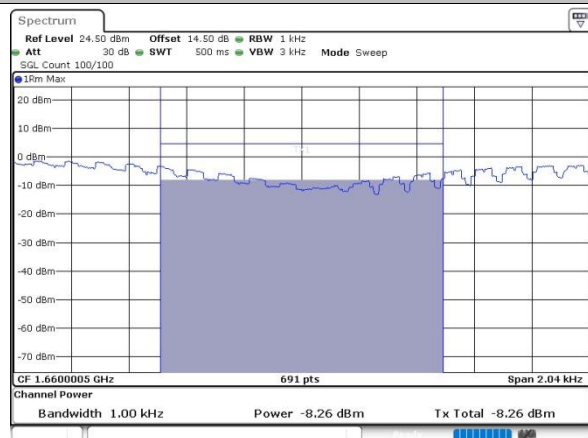
Middle Channel / 1SC46 / BPSK-CP



Highest Channel / 1SC46 / BPSK



Highest Channel / 1SC46 / BPSK-CP



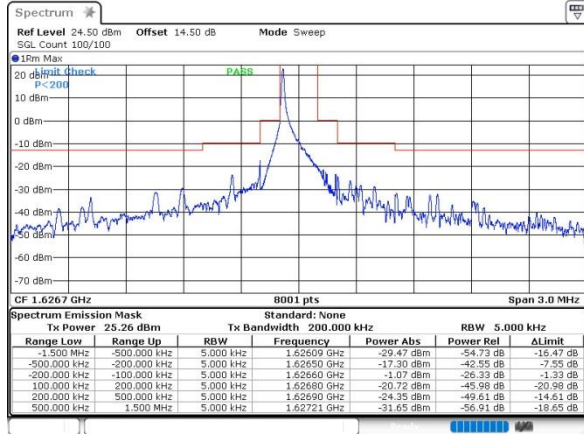
Remark: The above results of RBW 1kHz corrected by $10\log(4\text{kHz}/1\text{kHz})$ is passed.



Band 255 SCS 3.75kHz

Lowest Channel / 1SC1 / QPSK

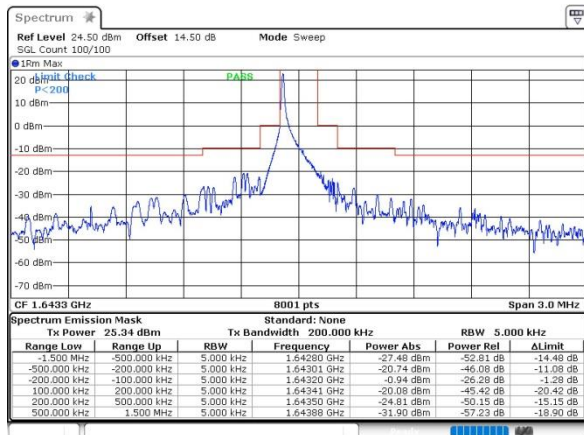
N/A



Date: 11.FEB.2023 15:15:10

Middle Channel / 1SC1 / QPSK

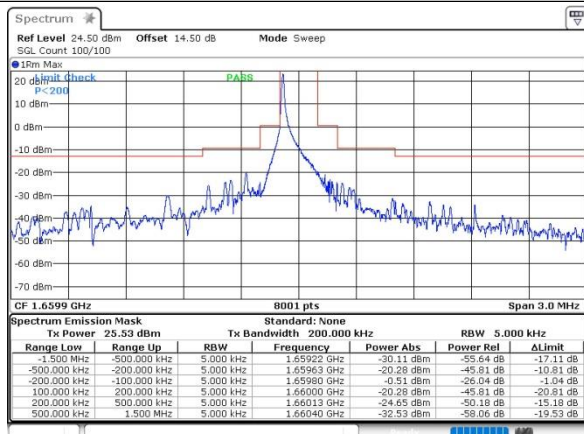
N/A



Date: 11.FEB.2023 13:19:55

Highest Channel / 1SC1 / QPSK

N/A

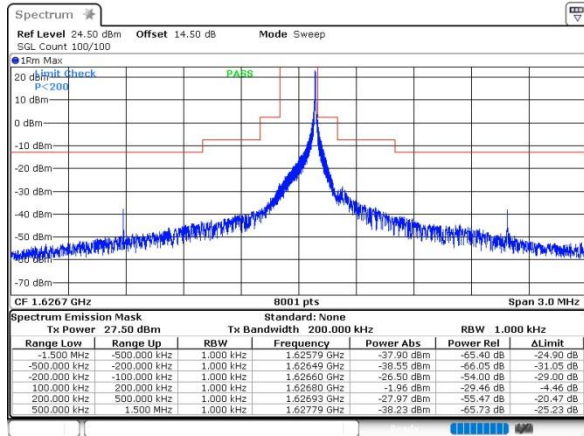


Date: 11.FEB.2023 14:23:30

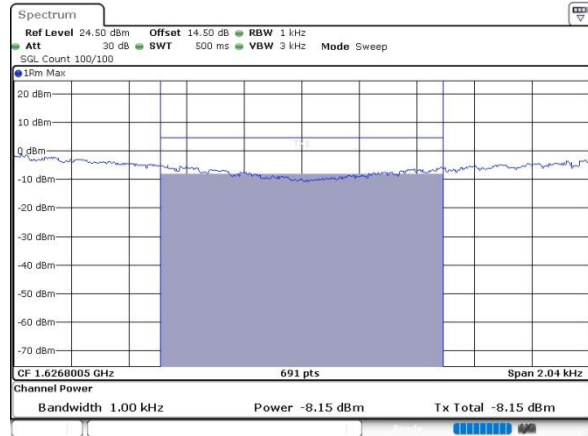


Band 255 SCS 3.75kHz

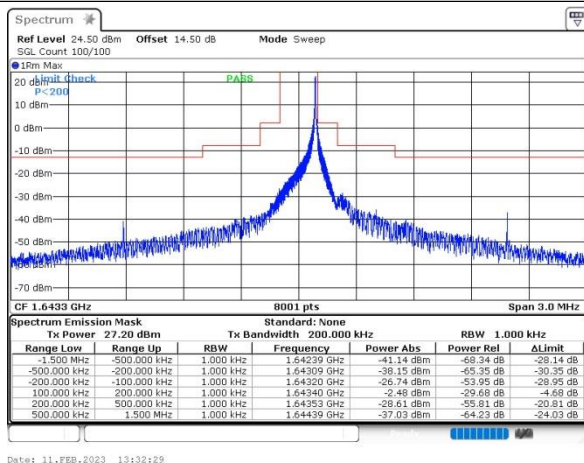
Lowest Channel / 1SC46 / QPSK



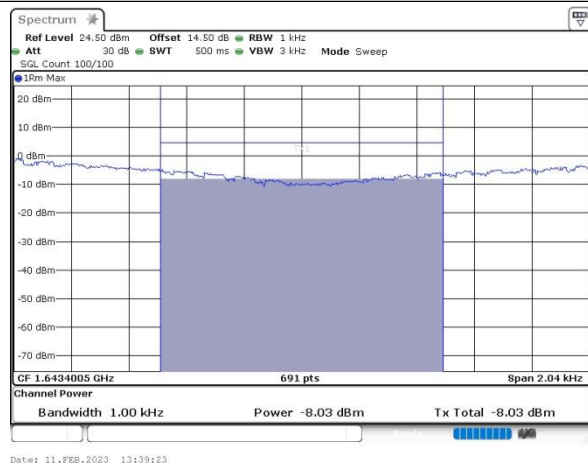
Lowest Channel / 1SC46 / QPSK-CP



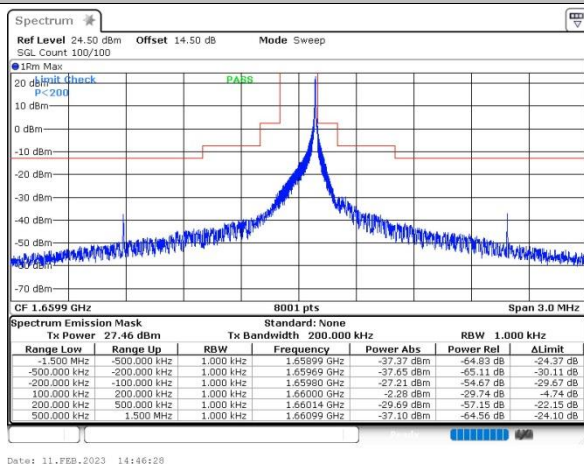
Middle Channel / 1SC46 / QPSK



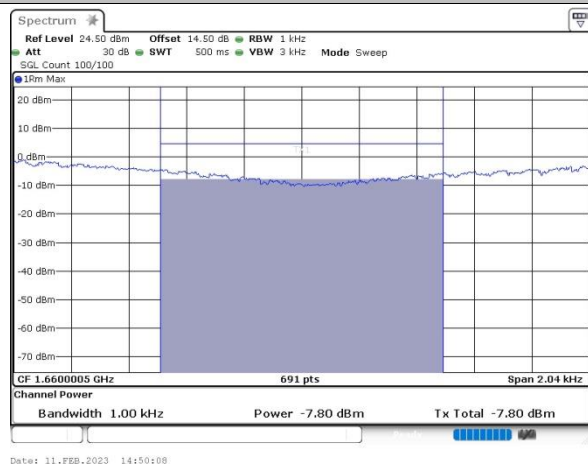
Middle Channel / 1SC46 / QPSK-CP



Highest Channel / 1SC46 / QPSK



Highest Channel / 1SC46 / QPSK-CP



Remark: The above results of RBW 1kHz corrected by $10\log(4\text{kHz}/1\text{kHz})$ is passed.