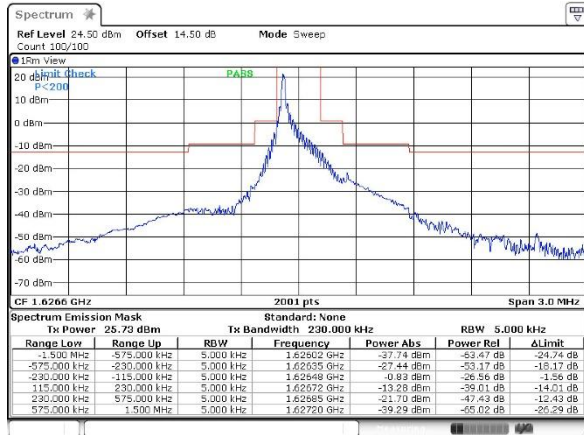


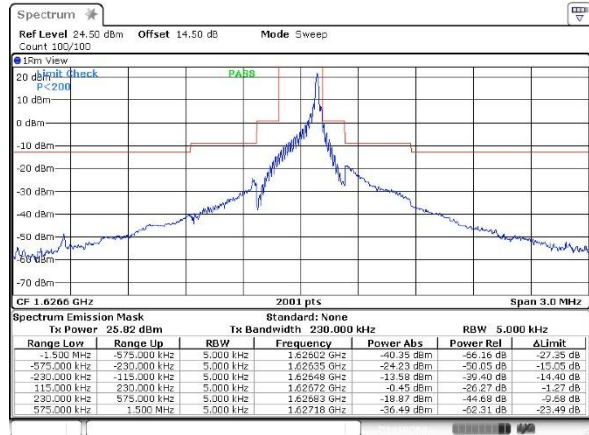


Band 255 SCS 15kHz

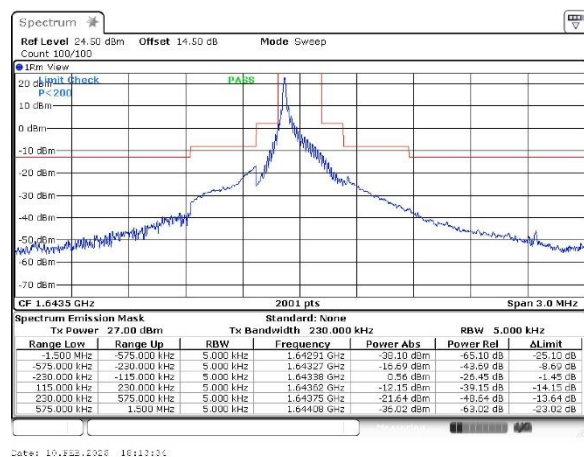
Lowest Channel / 1SC0 / QPSK



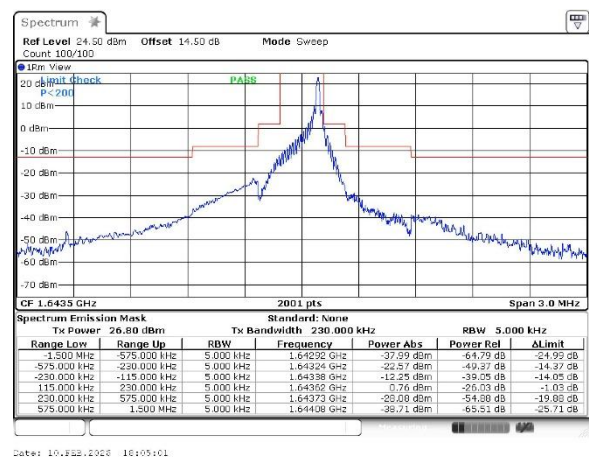
Lowest Channel / 1SC11 / QPSK



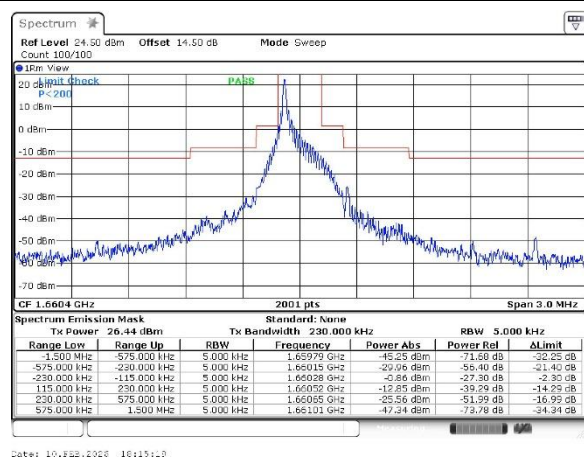
Middle Channel / 1SC0 / QPSK



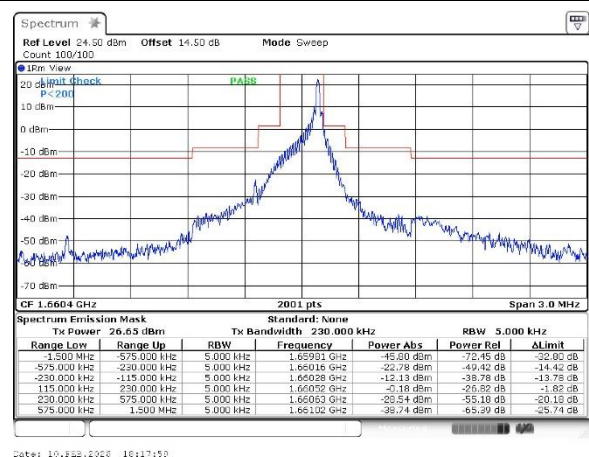
Middle Channel / 1SC11 / QPSK



Highest Channel / 1SC0 / QPSK



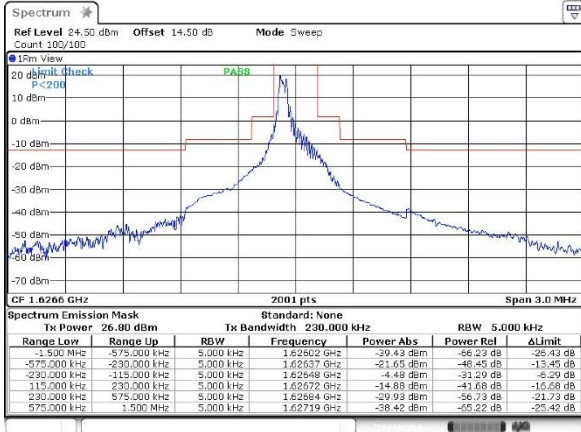
Highest Channel / 1SC11 / QPSK



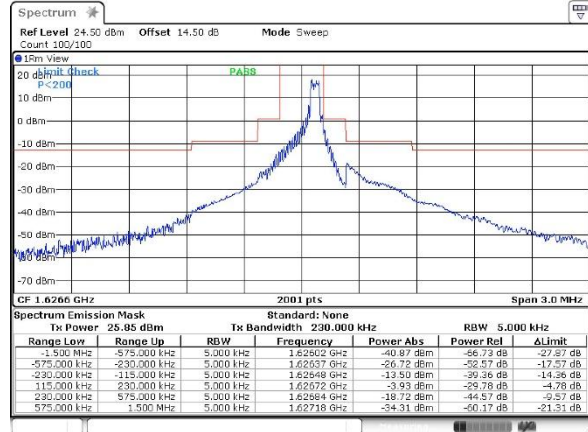


Band 255 SCS 15kHz

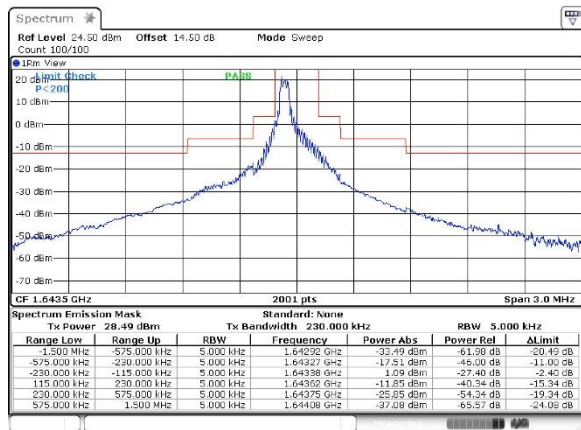
Lowest Channel / 3SC0 / QPSK



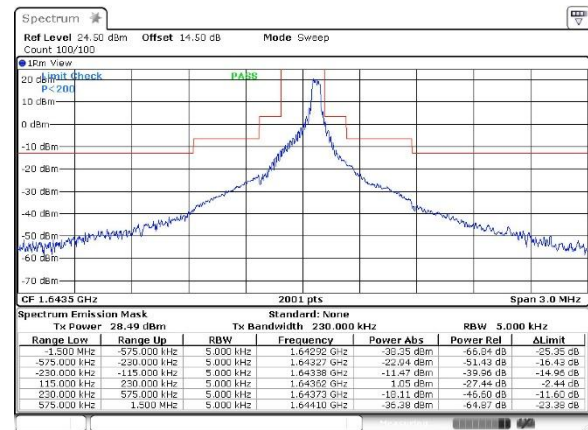
Lowest Channel / 3SC9 / QPSK



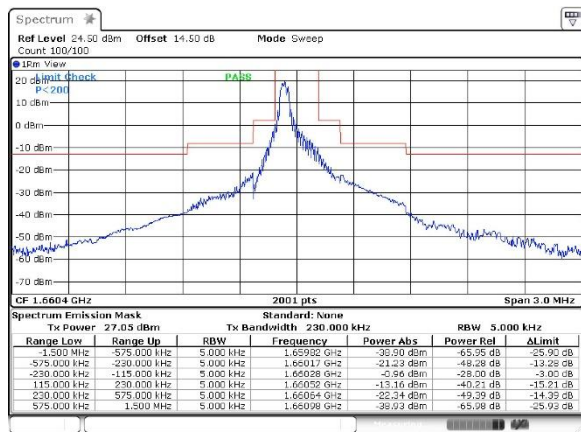
Middle Channel / 3SC0 / QPSK



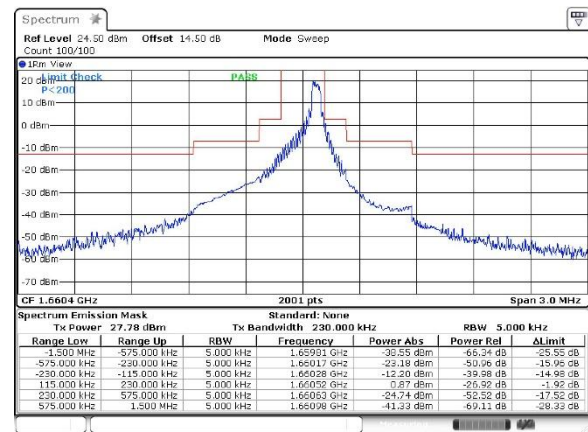
Middle Channel / 3SC9 / QPSK



Highest Channel / 3SC0 / QPSK



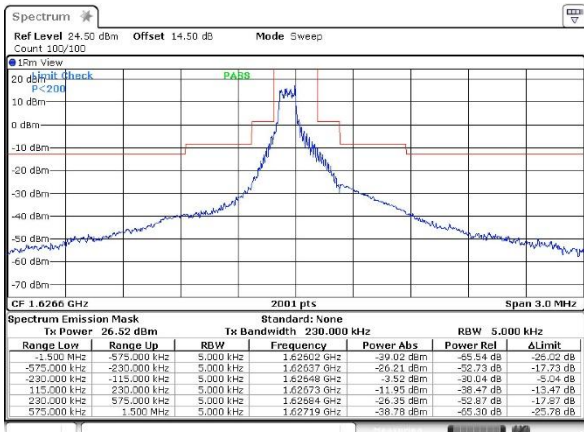
Highest Channel / 3SC9 / QPSK



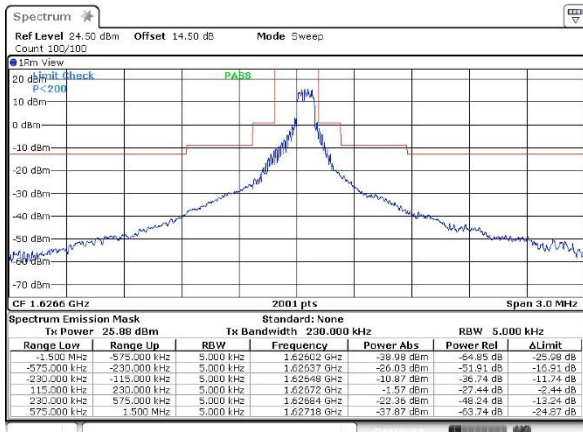


Band 255 SCS 15kHz

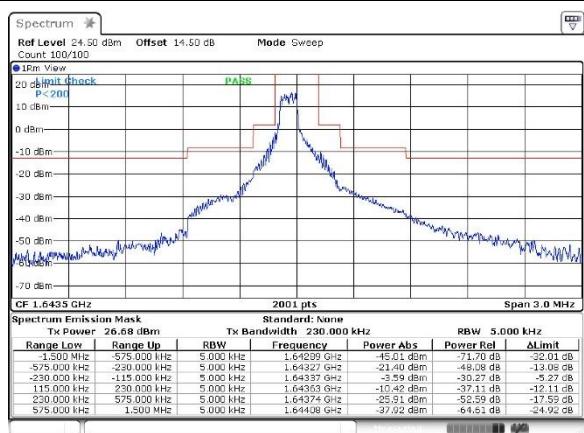
Lowest Channel / 6SC0 / QPSK



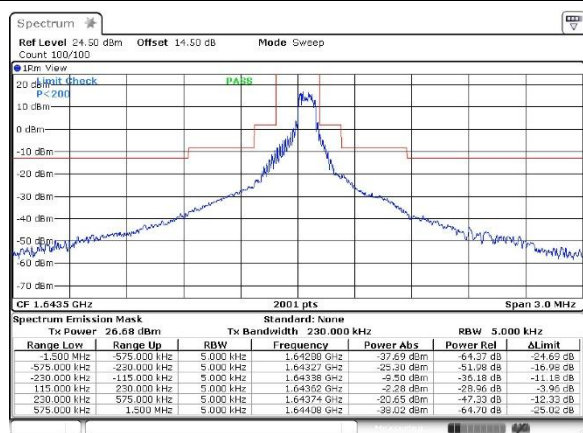
Lowest Channel / 6SC6 / QPSK



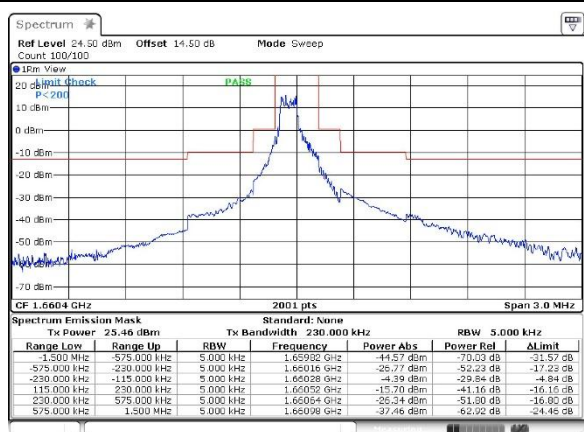
Middle Channel / 6SC0 / QPSK



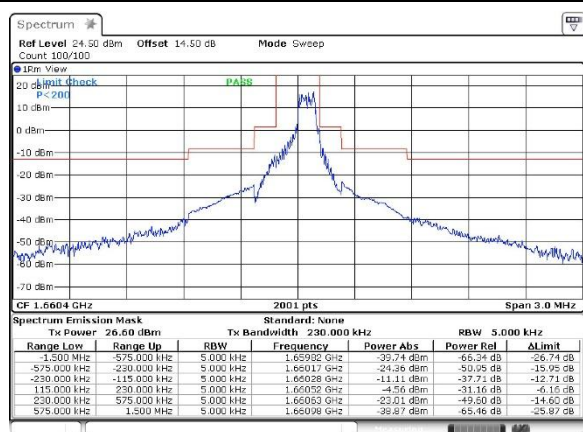
Middle Channel / 6SC6 / QPSK



Highest Channel / 6SC0 / QPSK



Highest Channel / 6SC6 / QPSK

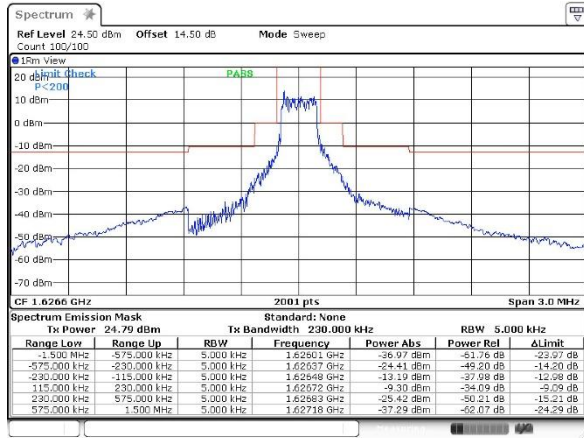




Band 255 SCS 15kHz

Lowest Channel / 12SC0 / QPSK

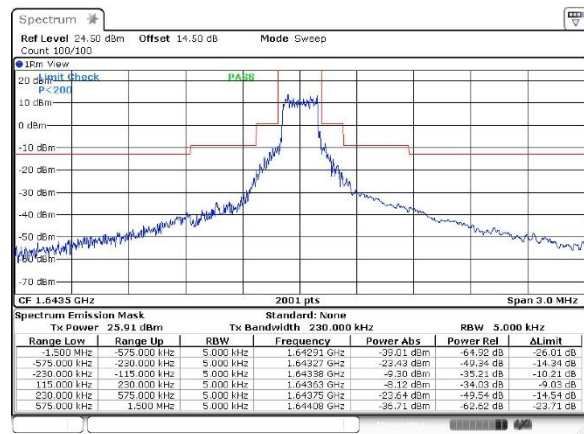
N/A



Date: 25.FEB.2020 11:43:29

Middle Channel / 12SC0 / QPSK

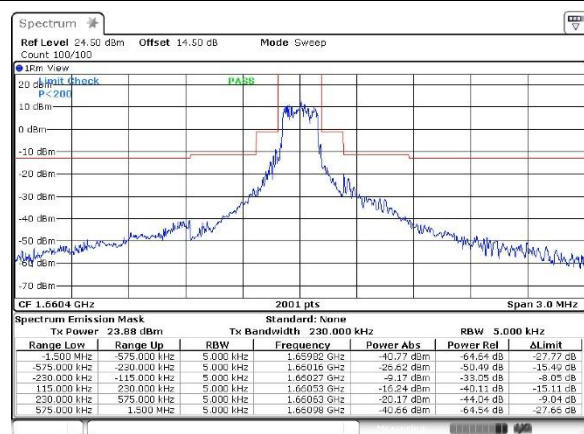
N/A



Date: 10.FEB.2020 17:55:03

Highest Channel / 12SC0 / QPSK

N/A



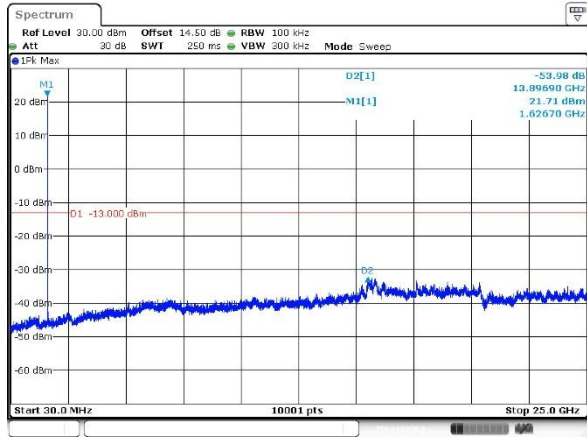
Date: 10.FEB.2020 16:26:56



Conducted Spurious Emission

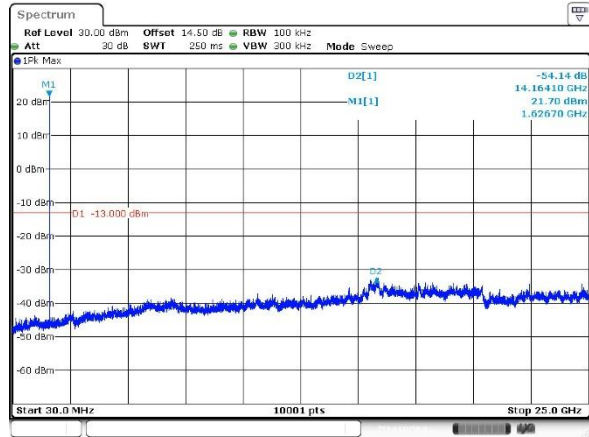
Band 255 SCS 3.75kHz

Lowest Channel / 1SC0 / BPSK



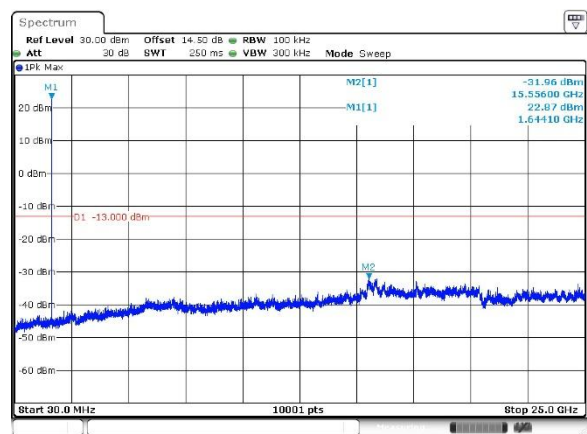
Date: 25.08.2020 13:34:24

Lowest Channel / 1SC0 / QPSK



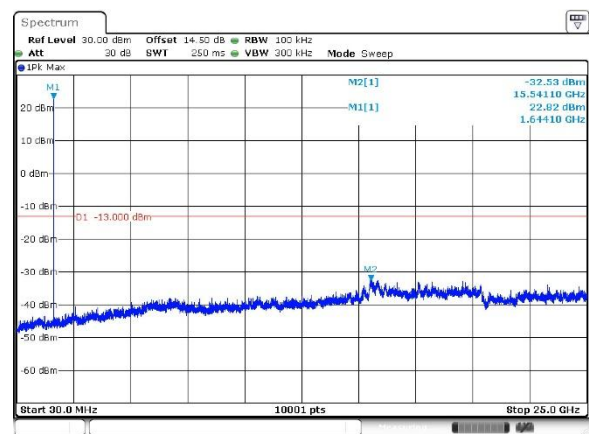
Date: 25.08.2020 13:34:11

Middle Channel / 1SC0 / BPSK



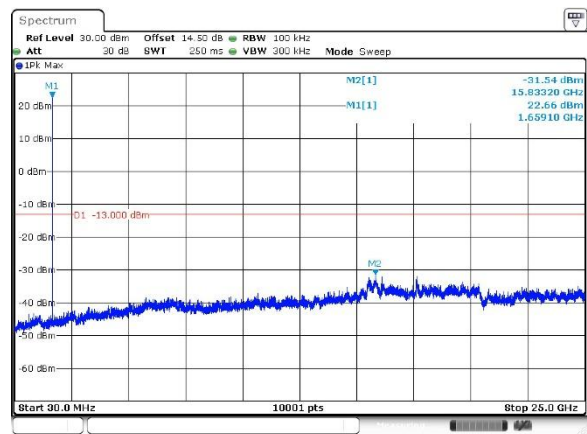
Date: 10.08.2020 14:22:40

Middle Channel / 1SC0 / QPSK



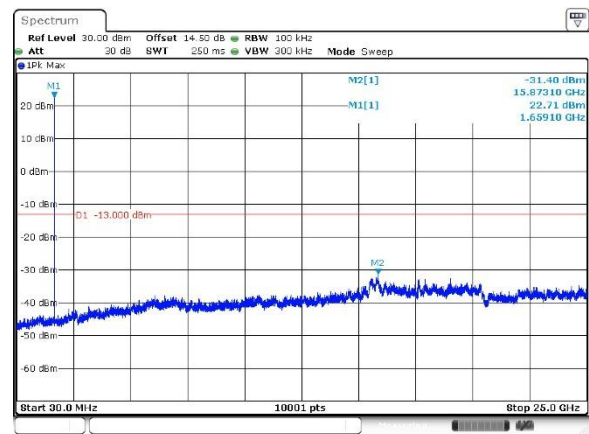
Date: 10.08.2020 14:22:51

Highest Channel / 1SC0 / BPSK



Date: 10.08.2020 14:23:05

Highest Channel / 1SC0 / QPSK

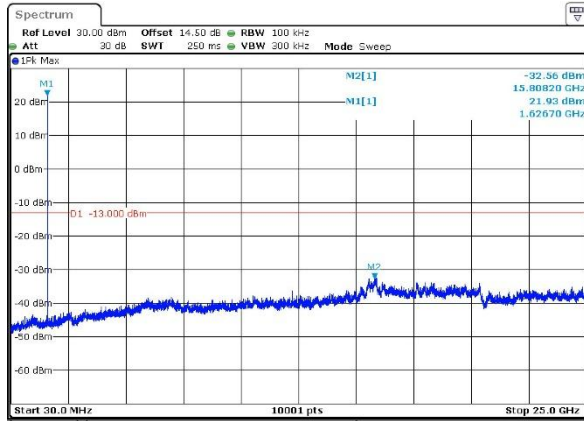


Date: 10.08.2020 14:23:03



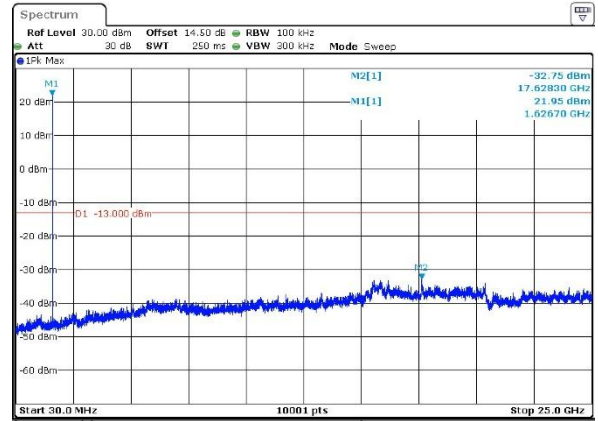
Band 255 SCS 15kHz

Lowest Channel / 1SC0 / BPSK



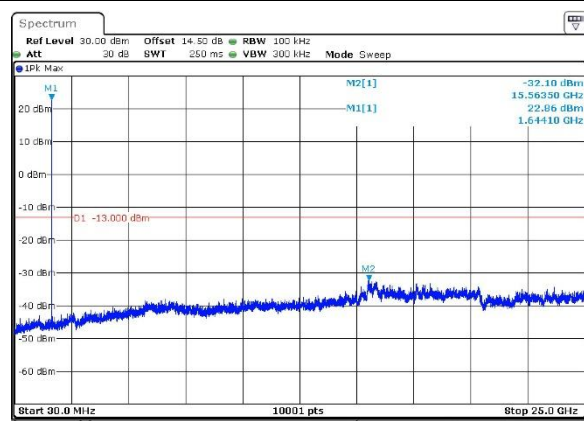
Date: 25-FEB-2020 13:27:22

Lowest Channel / 1SC0 / QPSK



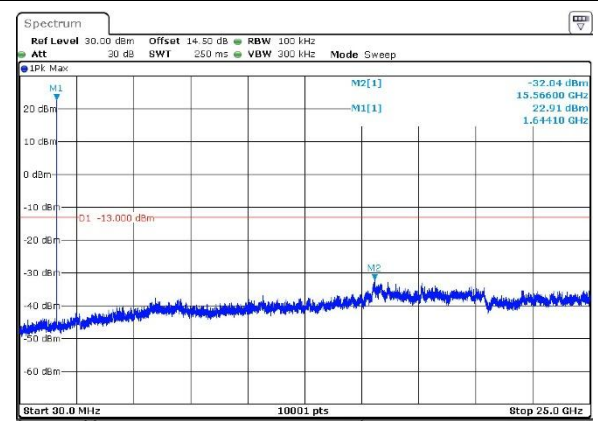
Date: 25-FEB-2020 13:28:26

Middle Channel / 1SC0 / BPSK



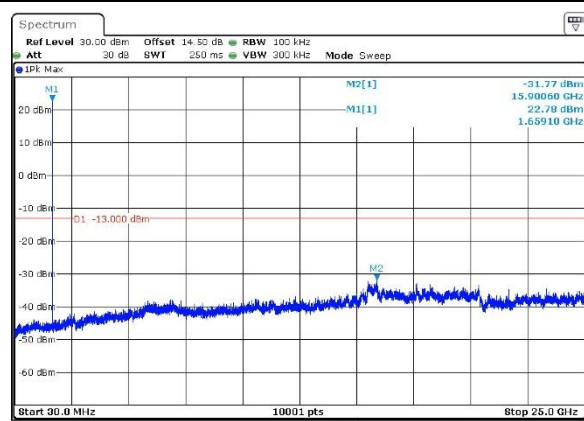
Date: 10-FEB-2020 14:34:33

Middle Channel / 1SC0 / QPSK



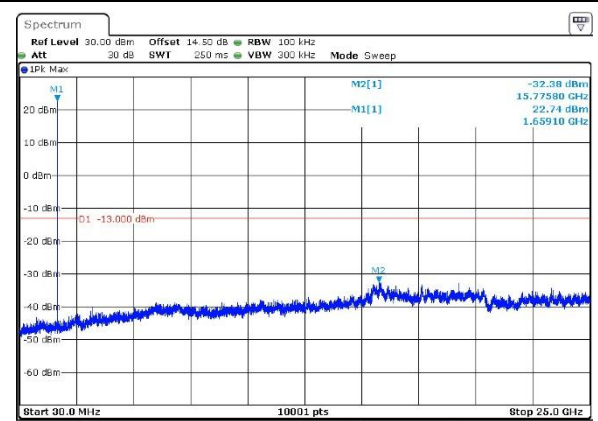
Date: 10-FEB-2020 14:35:51

Highest Channel / 1SC0 / BPSK



Date: 10-FEB-2020 14:35:50

Highest Channel / 1SC0 / QPSK



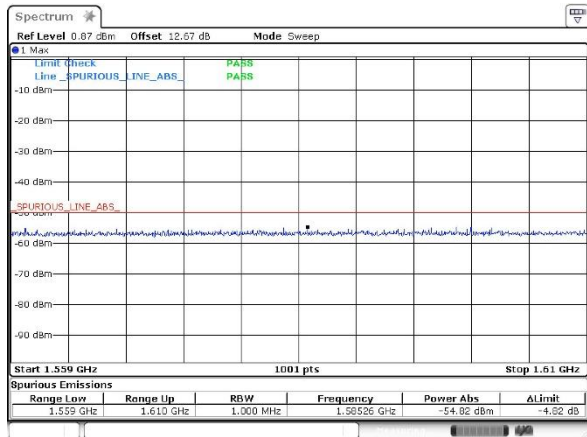
Date: 10-FEB-2020 14:36:31

**Emission limits for protection of aeronautical service**

Band 255 SCS 3.75kHz

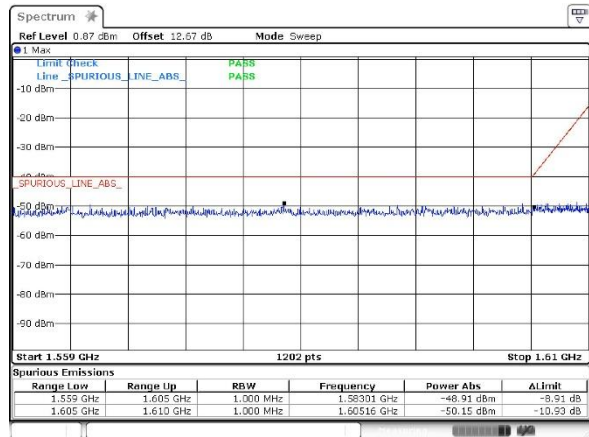
BPSK

Lowest Channel / 1SC0 Carrier off



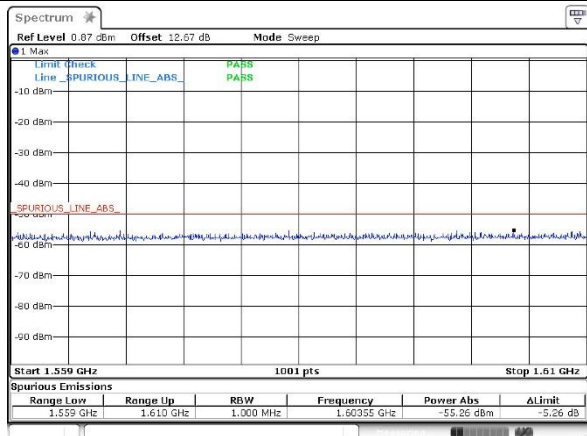
Default: 25-768, 2026-14:07:153

Lowest Channel / 1SC0 Carrier on



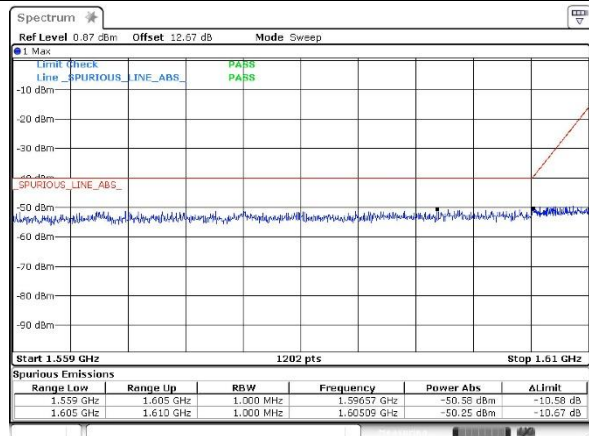
Default: 25-768, 2026-14:08:134

Middle Channel / 1SC0 Carrier off

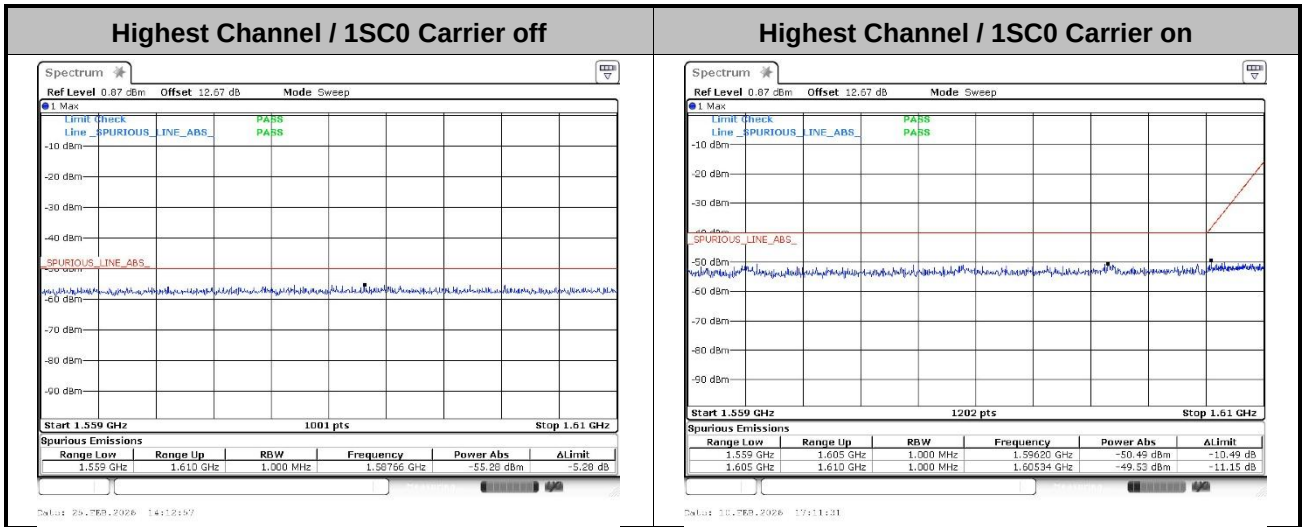


Default: 25-768, 2026-14:07:175

Middle Channel / 1SC0 Carrier on



Default: 25-768, 2026-17:07:108



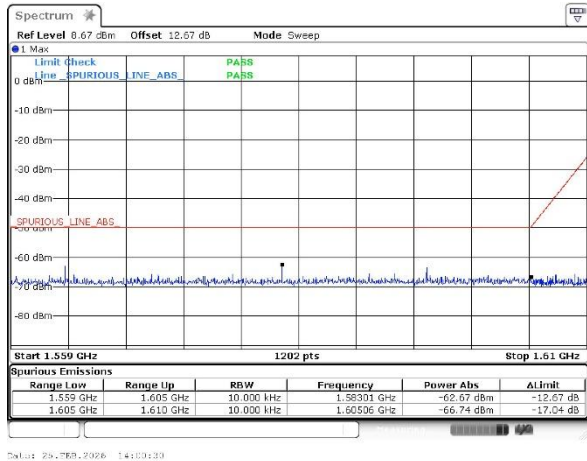


Band 255 SCS 3.75kHz

BPSK

Lowest Channel / 1SC0 Discrete

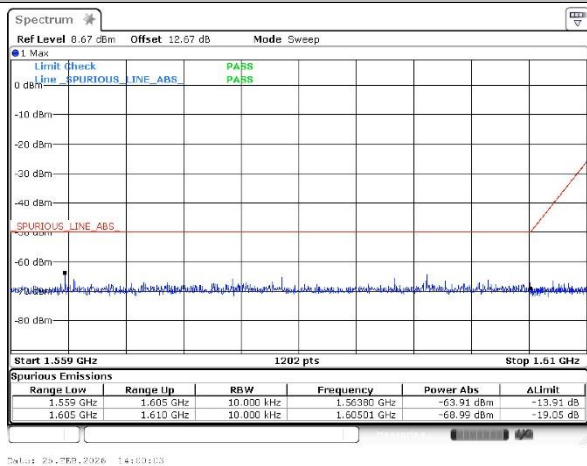
N/A



N/A

Middle Channel / 1SC0 Discrete

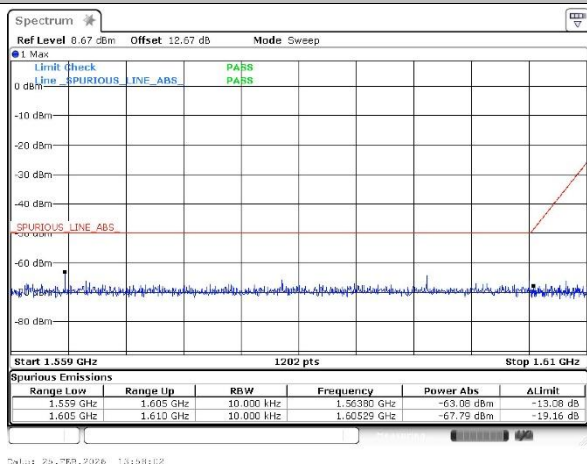
N/A



N/A

Highest Channel / 1SC0 Discrete

N/A



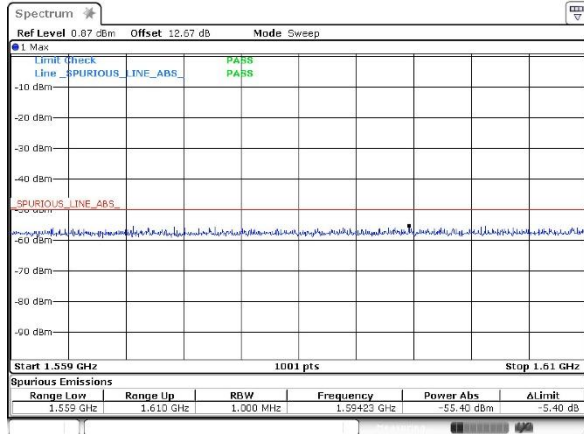
N/A



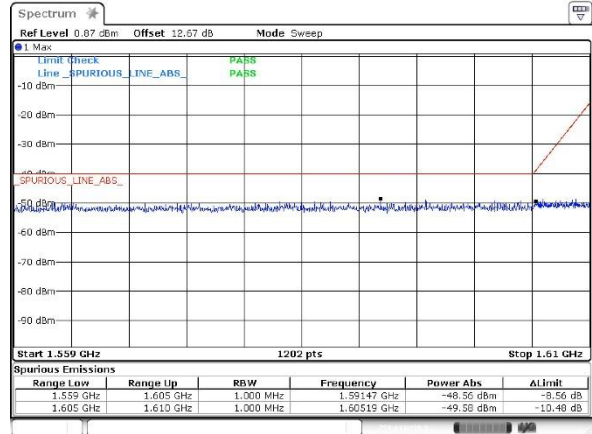
Band 255 SCS 3.75kHz

QPSK

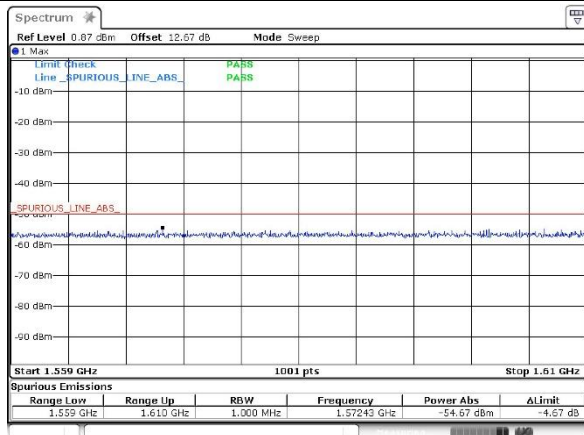
Lowest Channel / 1SC0 Carrier off



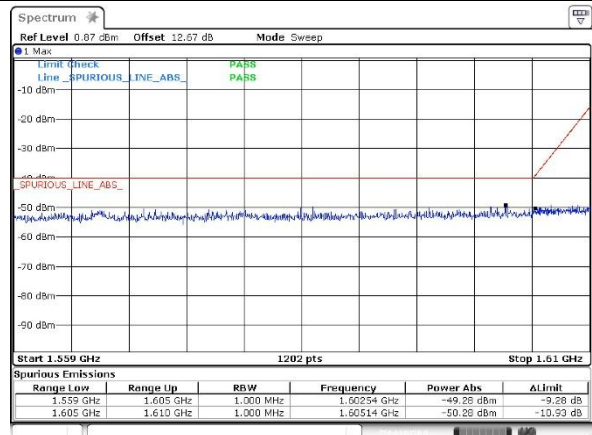
Lowest Channel / 1SC0 Carrier on



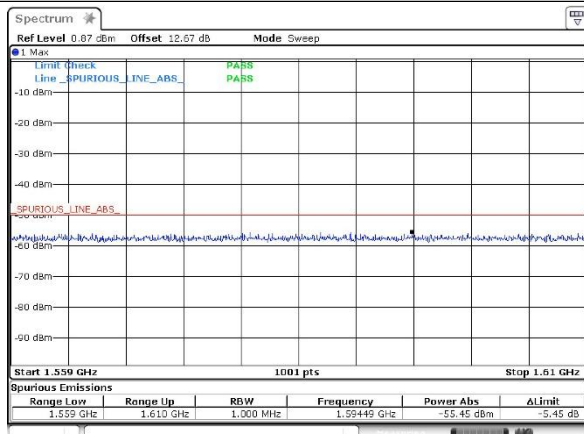
Middle Channel / 1SC0 Carrier off



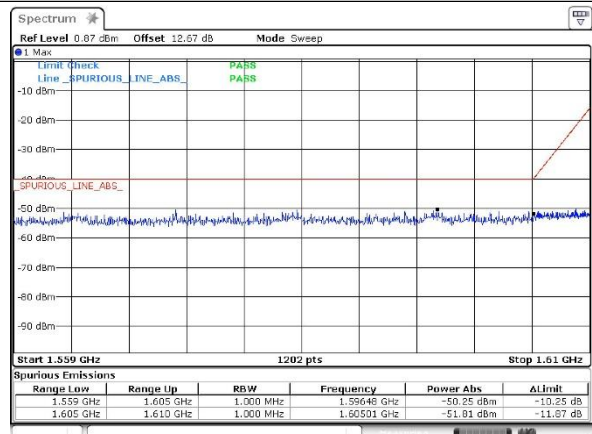
Middle Channel / 1SC0 Carrier on



Highest Channel / 1SC0 Carrier off



Highest Channel / 1SC0 Carrier on



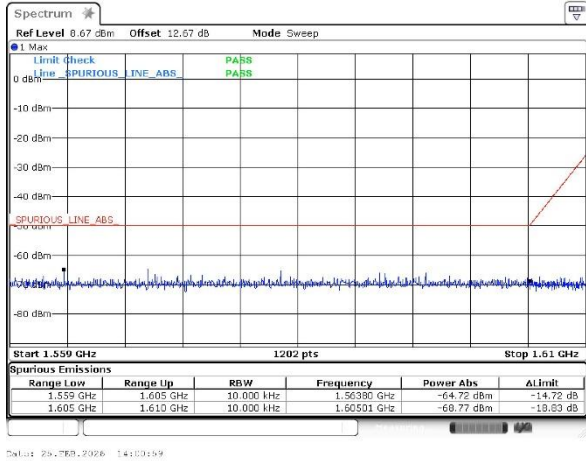


Band 255 SCS 3.75kHz

QPSK

Lowest Channel / 1SC0 Discrete

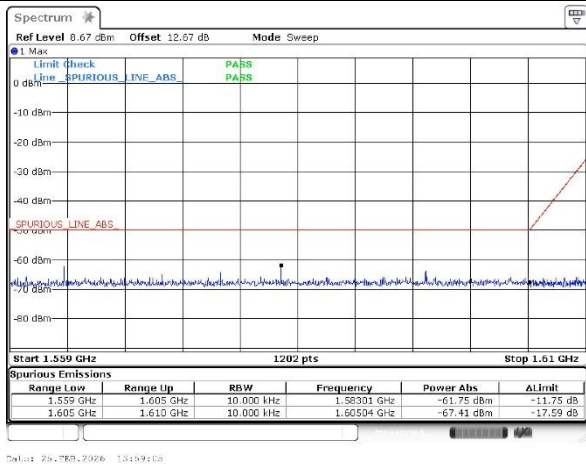
N/A



N/A

Middle Channel / 1SC0 Discrete

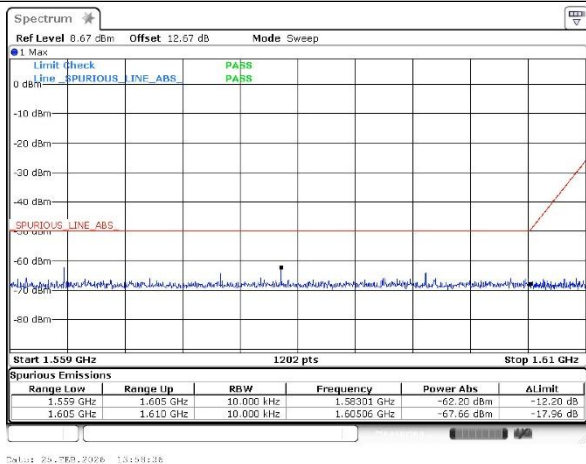
N/A



N/A

Highest Channel / 1SC0 Discrete

N/A



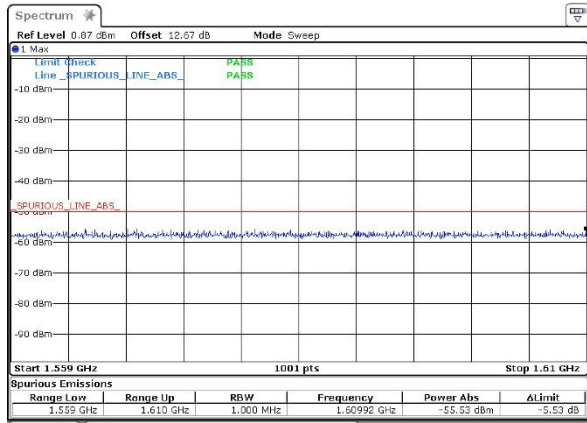
N/A



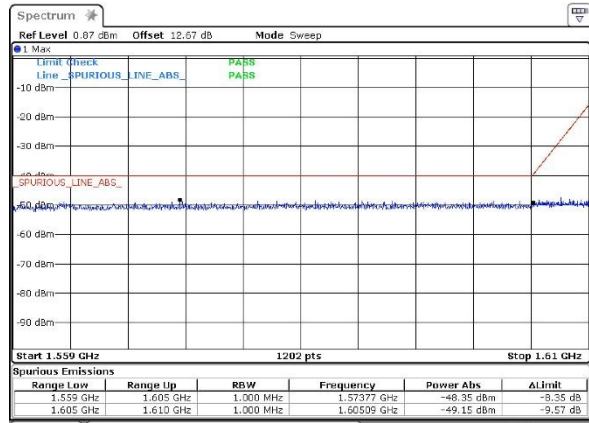
Band 255 SCS 15kHz

BPSK

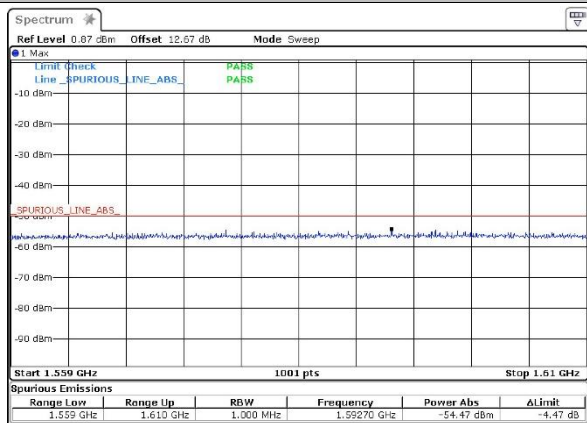
Lowest Channel / 1SC0 Carrier off



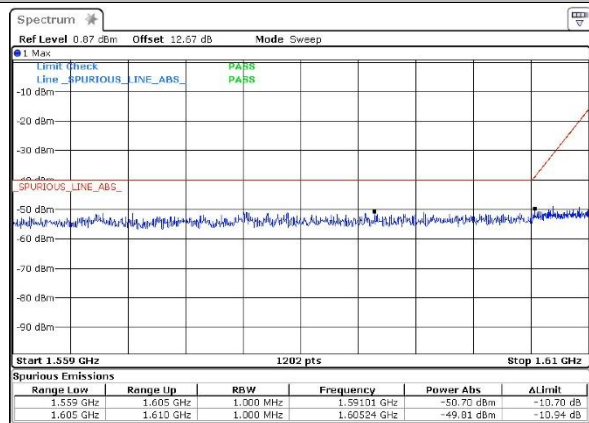
Lowest Channel / 1SC0 Carrier on



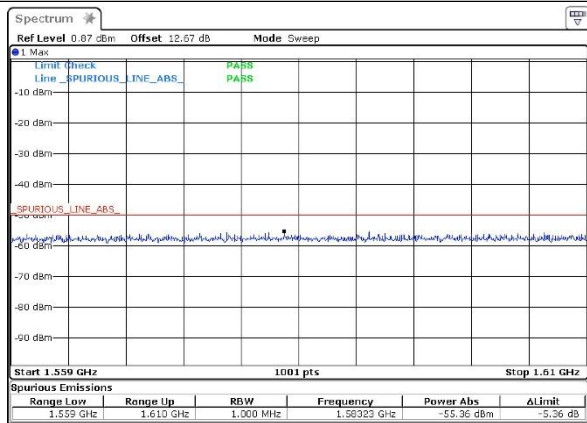
Middle Channel / 1SC0 Carrier off



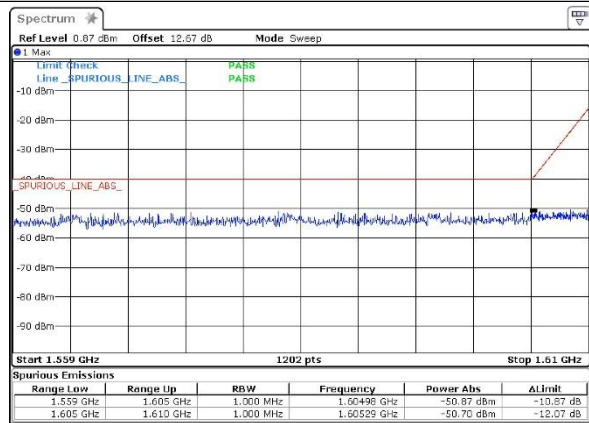
Middle Channel / 1SC0 Carrier on



Highest Channel / 1SC0 Carrier off



Highest Channel / 1SC0 Carrier on



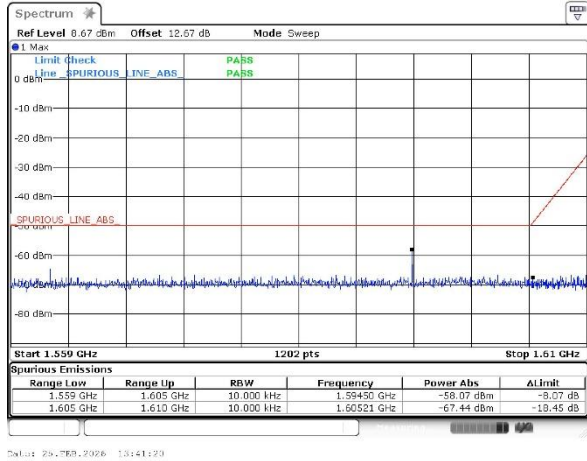


Band 255 SCS 15kHz

BPSK

Lowest Channel / 1SC0 Discrete

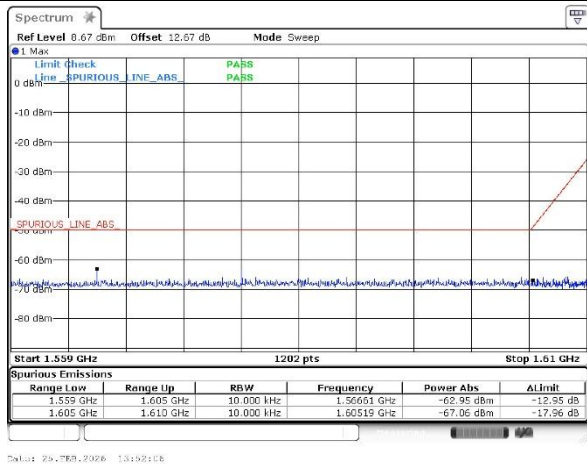
N/A



N/A

Middle Channel / 1SC0 Discrete

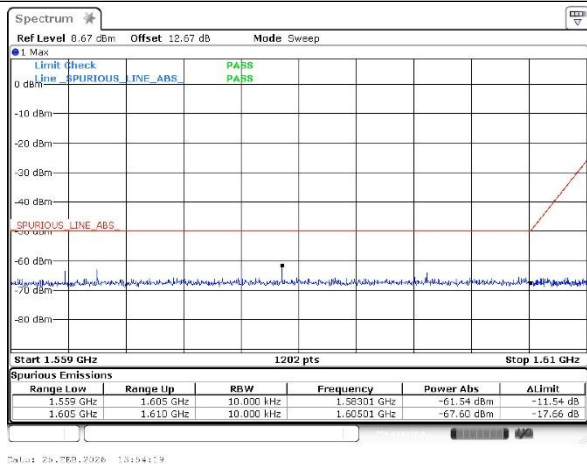
N/A



N/A

Highest Channel / 1SC0 Discrete

N/A



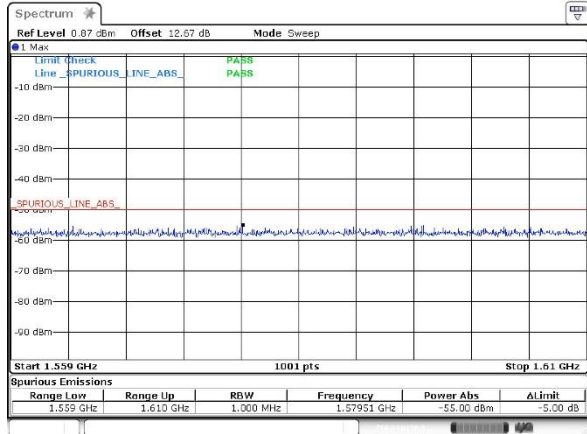
N/A



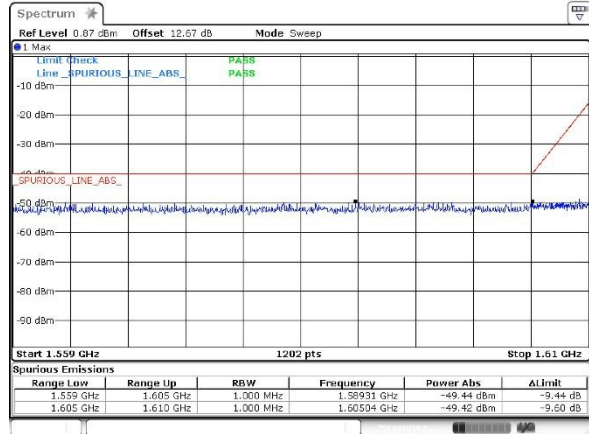
Band 255 SCS 15kHz

QPSK

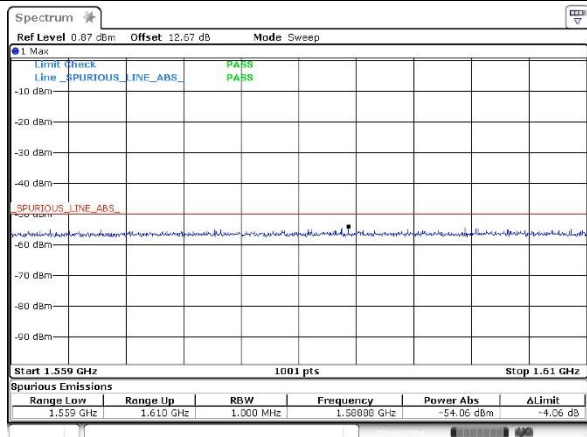
Lowest Channel / 1SC0 Carrier off



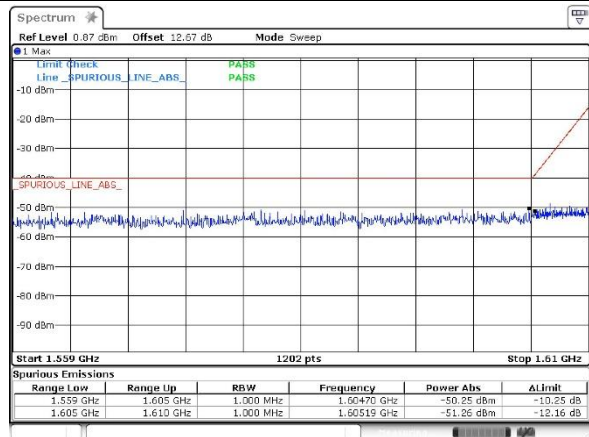
Lowest Channel / 1SC0 Carrier on



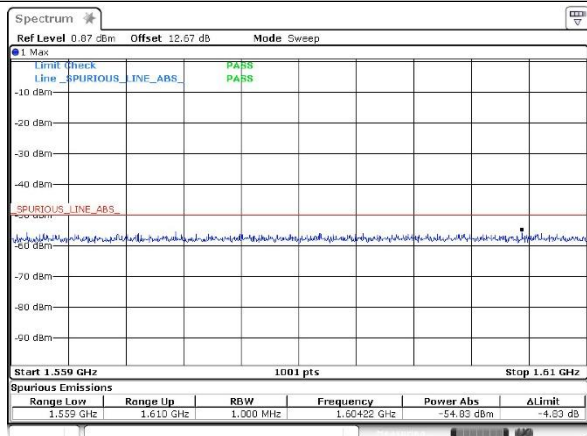
Middle Channel / 1SC0 Carrier off



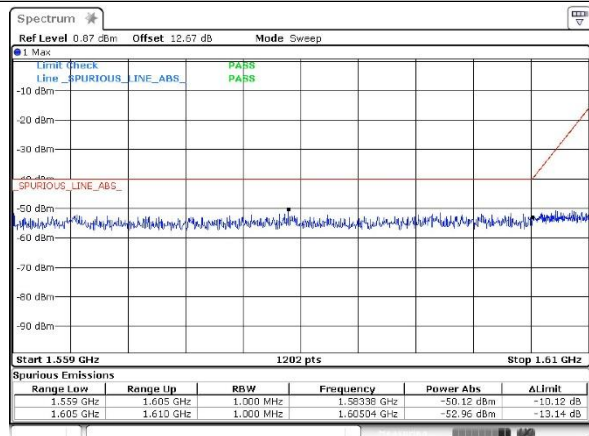
Middle Channel / 1SC0 Carrier on



Highest Channel / 1SC0 Carrier off



Highest Channel / 1SC0 Carrier on



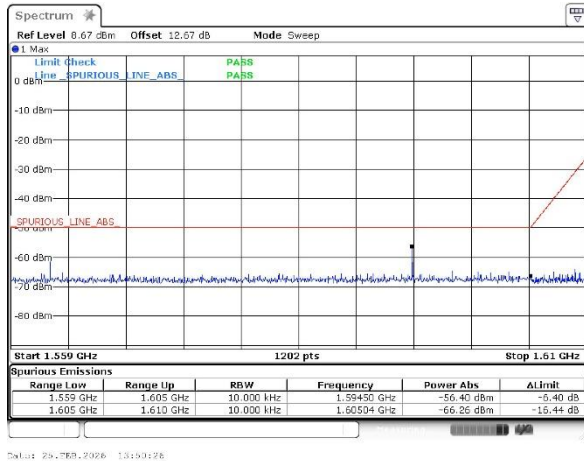


Band 255 SCS 15kHz

QPSK

Lowest Channel / 1SC0 Discrete

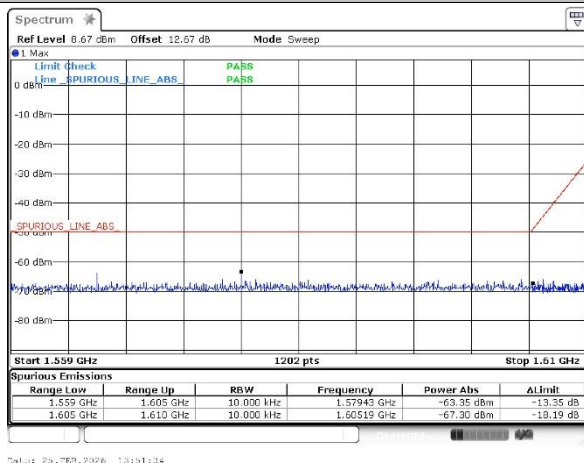
N/A



N/A

Middle Channel / 1SC0 Discrete

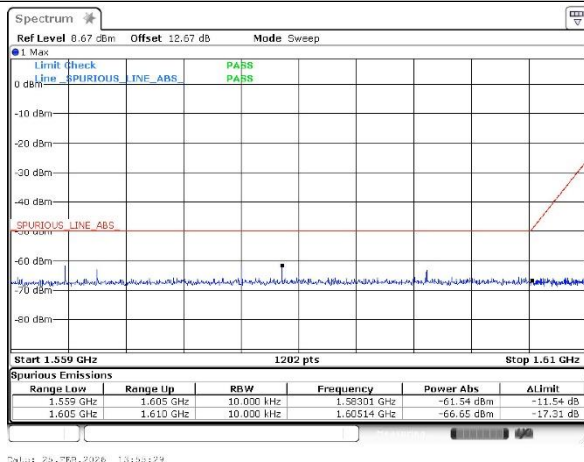
N/A



N/A

Highest Channel / 1SC0 Discrete

N/A



N/A

Frequency Stability

Test Conditions		Band 255(QPSK) / Middle Channel	Limit
Temperature (°C)	Voltage (Volt)	SCS 15KHz	Note 2.
		Deviation (ppm)	Result
50	Normal Voltage	0.0002	PASS
40	Normal Voltage	0.0006	
30	Normal Voltage	0.0003	
20(Ref.)	Normal Voltage	0.0000	
10	Normal Voltage	0.0007	
0	Normal Voltage	0.0003	
-10	Normal Voltage	0.0005	
-20	Normal Voltage	0.0006	
-30	Normal Voltage	0.0004	
20	Maximum Voltage	0.0005	
20	Normal Voltage	0.0000	
20	Battery End Point	0.0011	

Note:

1. Normal Voltage =3.8 V. ; Battery End Point (BEP) =3.2 V. ; Maximum Voltage =4.2 V.
2. Note: The frequency fundamental emissions stay within the authorized frequency block.



Appendix B. Test Results of Radiated Test

Radiated Spurious Emission

Test Engineer :	Wenbo Xiao	Temperature :	22~25℃
		Relative Humidity :	48~52%

Pre-scanned harmonic for SCS3.75kHz and SCS15kHz testing, we choose the worst mode to test.

Band 23 / SCS 3.75kHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	4000.24	-52.50	-13	-39.50	-71.35	-59.26	5.82	12.58	H
	6000.36	-50.97	-13	-37.97	-74.18	-56.69	7.28	13.00	H
	8000.48	-45.97	-13	-32.97	-73.73	-49.13	8.32	11.48	H
	4000.24	-52.50	-13	-39.50	-71.37	-59.26	5.82	12.58	V
	6000.36	-49.73	-13	-36.73	-73.5	-55.45	7.28	13.00	V
	8000.48	-45.75	-13	-32.75	-73.25	-48.91	8.32	11.48	V
Middle	4020.04	-52.62	-13	-39.62	-71.52	-59.37	5.85	12.60	H
	6030.06	-49.48	-13	-36.48	-72.79	-55.28	7.30	13.10	H
	8040.08	-45.93	-13	-32.93	-73.58	-49.08	8.35	11.50	H
	4020.04	-52.82	-13	-39.82	-71.74	-59.57	5.85	12.60	V
	6030.06	-49.21	-13	-36.21	-73.08	-55.01	7.30	13.10	V
	8040.08	-45.51	-13	-32.51	-72.87	-48.66	8.35	11.50	V
Highest	4039.84	-52.61	-13	-39.61	-71.56	-59.35	5.88	12.62	H
	6059.76	-50.63	-13	-37.63	-74.04	-56.44	7.32	13.13	H
	8079.68	-46.48	-13	-33.48	-74.03	-49.64	8.38	11.54	H
	4039.84	-53.16	-13	-40.16	-72.13	-59.90	5.88	12.62	V
	6059.76	-48.71	-13	-35.71	-72.69	-54.52	7.32	13.13	V
	8079.68	-46.15	-13	-33.15	-73.39	-49.31	8.38	11.54	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.



Band 255 / SCS 3.75kHz / QPSK									
Channel	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Over Limit (dB)	SPA Reading (dBm)	S.G. Power (dBm)	TX Cable loss (dB)	TX Antenna Gain (dBi)	Polarization (H/V)
Lowest	3253.2	-52.54	-13	-39.54	-68.88	-59.42	5.60	12.48	H
	4879.8	-49.33	-13	-36.33	-71.14	-55.01	7.10	12.78	H
	6506.4	-47.85	-13	-34.85	-73.39	-51.24	8.38	11.77	H
	3253.2	-52.91	-13	-39.91	-69.11	-59.79	5.60	12.48	V
	4879.8	-48.63	-13	-35.63	-70.68	-54.31	7.10	12.78	V
	6506.4	-47.47	-13	-34.47	-73.76	-50.86	8.38	11.77	V
Middle	3287	-53.90	-13	-40.90	-69.96	-60.75	5.65	12.50	H
	4930.5	-49.43	-13	-36.43	-71.28	-55.10	7.13	12.80	H
	6574	-48.12	-13	-35.12	-73.58	-51.52	8.40	11.80	H
	3287	-53.10	-13	-40.10	-68.97	-59.95	5.65	12.50	V
	4930.5	-49.42	-13	-36.42	-71.42	-55.09	7.13	12.80	V
	6574	-47.24	-13	-34.24	-73.4	-50.64	8.40	11.80	V
Highest	3320.8	-54.32	-13	-41.32	-70.07	-61.16	5.68	12.52	H
	4981.2	-50.77	-13	-37.77	-72.65	-56.44	7.15	12.82	H
	6641.6	-47.78	-13	-34.78	-73.14	-51.21	8.42	11.85	H
	3320.8	-53.99	-13	-40.99	-69.5	-60.83	5.68	12.52	V
	4981.2	-50.91	-13	-37.91	-72.87	-56.58	7.15	12.82	V
	6641.6	-48.13	-13	-35.13	-74.14	-51.56	8.42	11.85	V

Remark: Spurious emissions within 30-1000MHz were found more than 20dB below limit line.