

5 Conducted Spurious emissions

Conducted Spurious emissions						
Test path	Test signal	Test channel	Frequency range (MHz)	Worst test level (dBm)	Limit (dBm)	Verdict
DL	4.1MHz AWGN	LCH	0.09-1000	-46.03	≤-40	PASS
			1000-3430	-42.27	≤-40	PASS
			3430-3440	-43.03	≤-25	PASS
			3440-3449	-18.80	≤-13	PASS
		HCH	3551-3560	-19.17	≤-13	PASS
			3560-3570	-42.63	≤-25	PASS
			3570-35500	-42.40	≤-40	PASS
Remark: 1. All modes (LCH/MCH/HCH, with 4.1MHz AWGN signal/ with 100MHz AWGN signal) had been tested, only show the worst-case in this report. 2. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.						

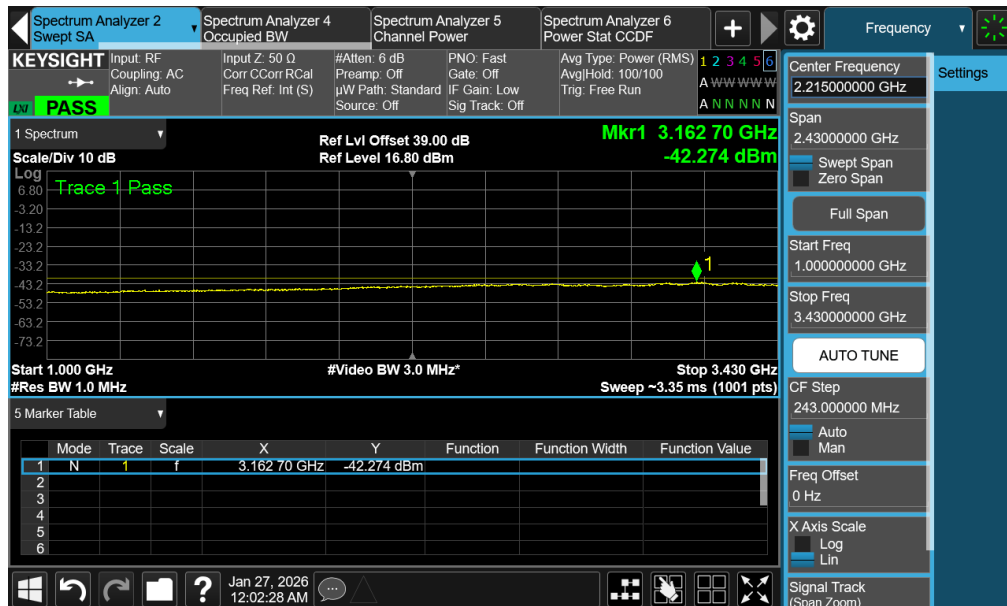
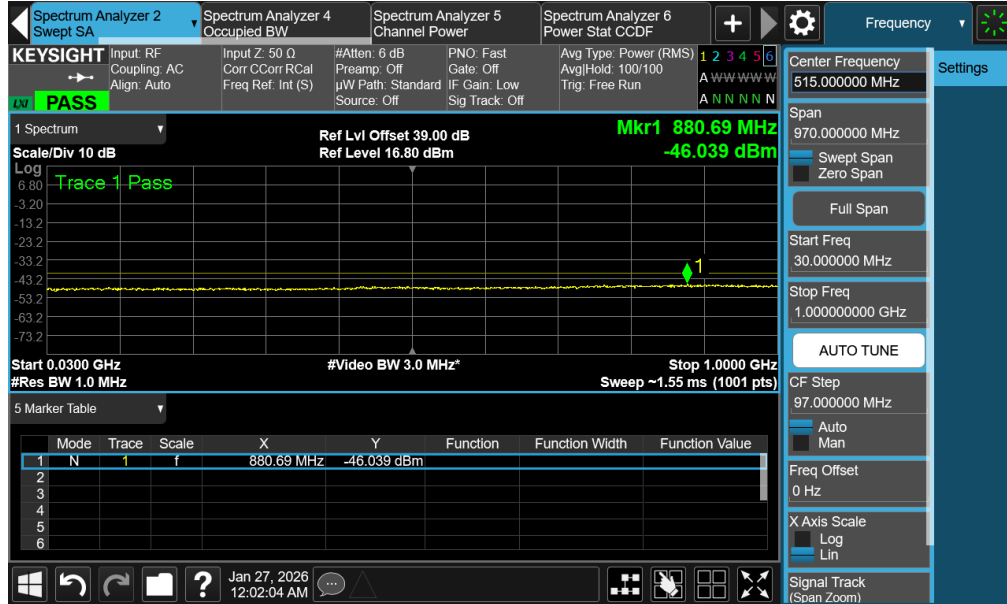


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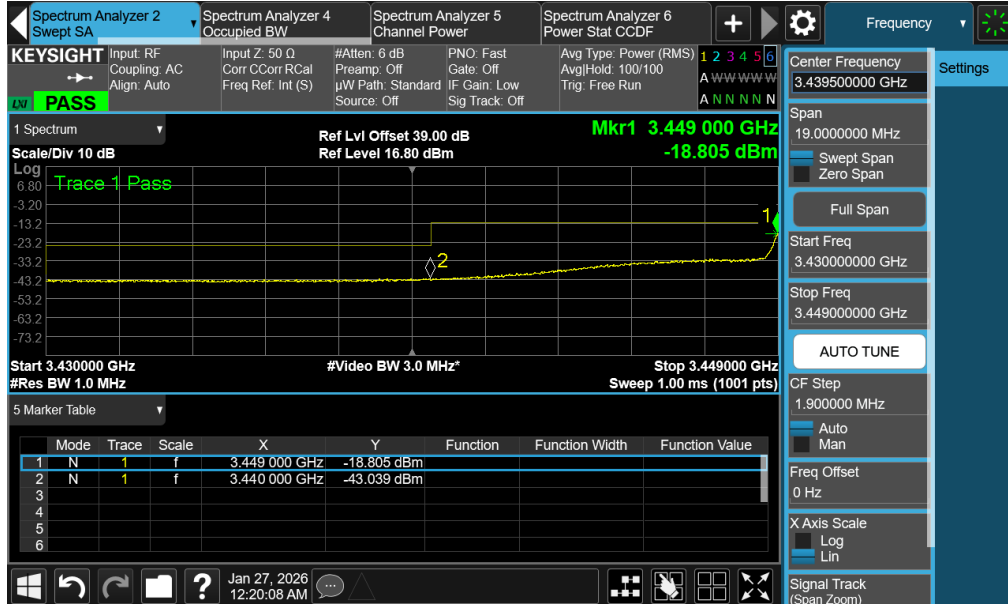
Conducted spurious emissions

DL_4.1MHz AWGN_LCH_Pre-AGC

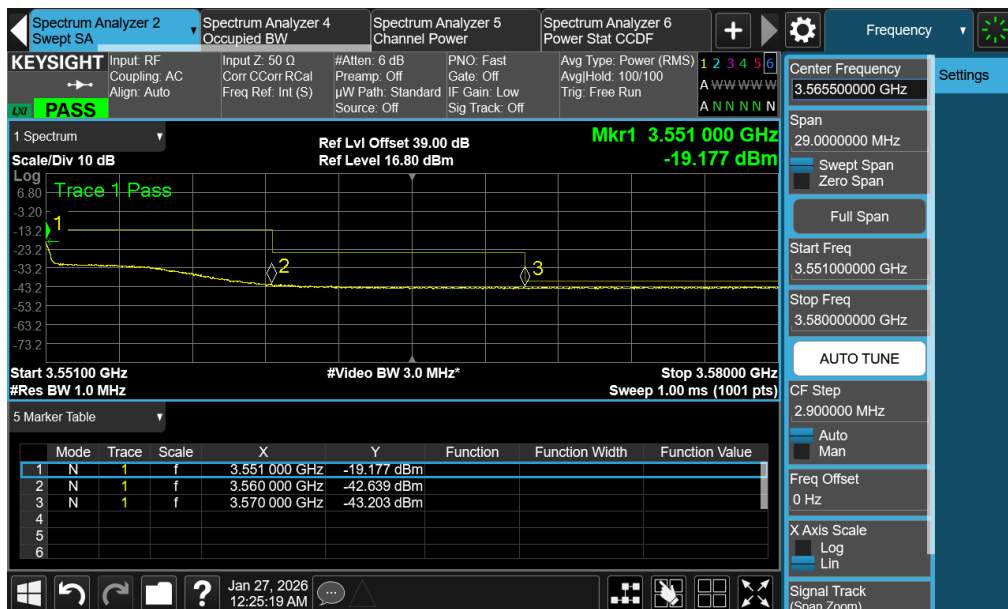


Conducted spurious emissions

DL_4.1MHz AWGN_LCH_Pre-AGC



DL_4.1MHz AWGN_HCH_Pre-AGC

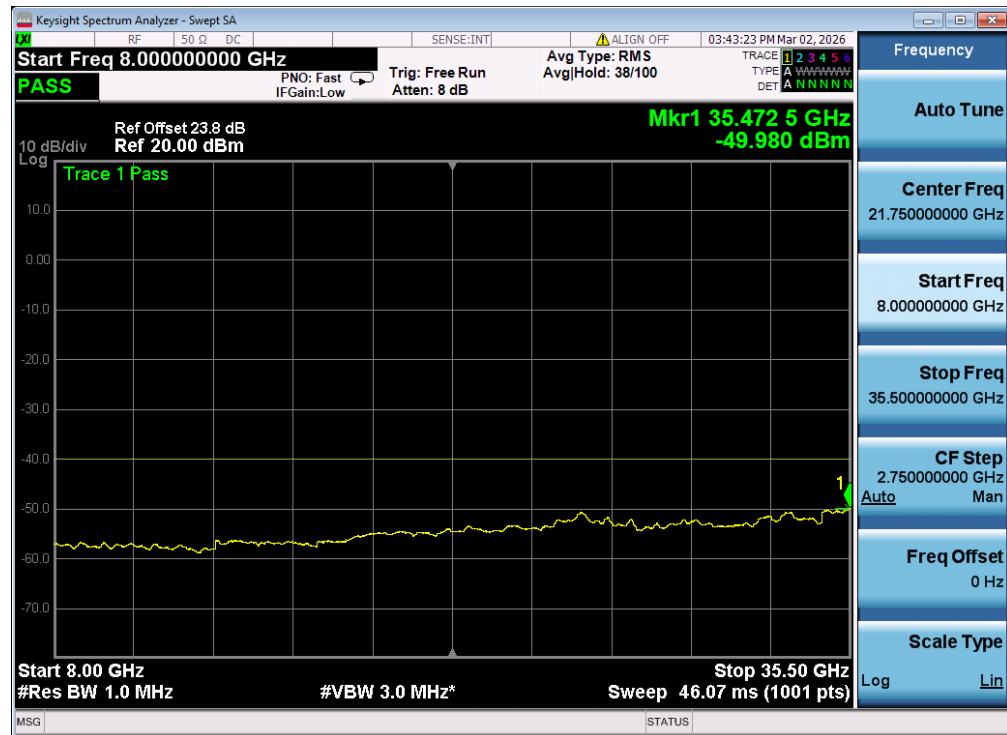
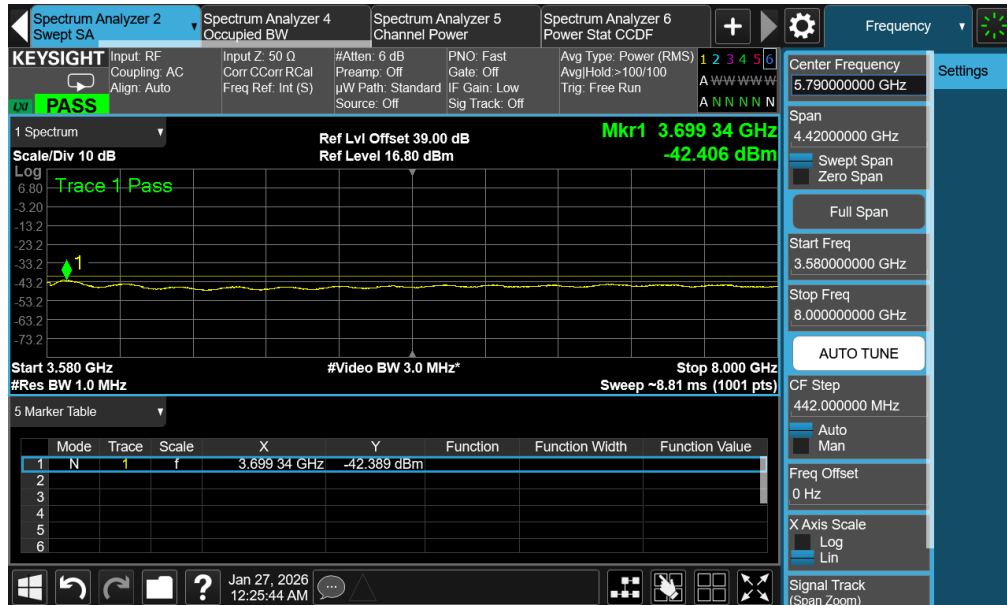


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Conducted spurious emissions

DL_4.1MHz AWGN_HCH_Pre-AGC



6 Frequency Stability

Frequency stability vs voltage							
Test path	Test Channel	Test Signal	Temperature	Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	MCH	4.1MHz AWGN	TN	VL	2.7	0.00077	PASS
			TN	VH	2.7	0.00077	PASS
		100MHz AWGN	TN	VL	2.4	0.00069	PASS
			TN	VH	2.4	0.00069	PASS
		GSM	TN	VL	3.0	0.00086	PASS
			TN	VH	3.0	0.00086	PASS



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Frequency stability vs temperature							
Test Path	Test Channel	Test Signal	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	MCH	4.1MHz AWGN	VN	+50	2.7	0.00077	PASS
			VN	+40	2.9	0.00083	PASS
			VN	+30	2.3	0.00066	PASS
			VN	+20	2.7	0.00077	PASS
			VN	+10	2.4	0.00069	PASS
			VN	0	2.9	0.00083	PASS
			VN	-10	2.2	0.00063	PASS
			VN	-20	2.4	0.00069	PASS
			VN	-30	2.1	0.00060	PASS
	MCH	100MHz AWGN	VN	+50	2.6	0.00074	PASS
			VN	+40	2.9	0.00083	PASS
			VN	+30	2.7	0.00077	PASS
			VN	+20	2.4	0.00069	PASS
			VN	+10	2.8	0.00080	PASS
			VN	0	2.5	0.00071	PASS
			VN	-10	2.6	0.00074	PASS
			VN	-20	2.1	0.00060	PASS
			VN	-30	1.8	0.00051	PASS
	MCH	GSM	VN	+50	2.3	0.00066	PASS
			VN	+40	2.5	0.00071	PASS
			VN	+30	3.1	0.00089	PASS
			VN	+20	3.0	0.00086	PASS
			VN	+10	2.6	0.00074	PASS
			VN	0	2.4	0.00069	PASS
			VN	-10	2.8	0.00080	PASS
			VN	-20	2.7	0.00077	PASS
			VN	-30	2.8	0.00080	PASS



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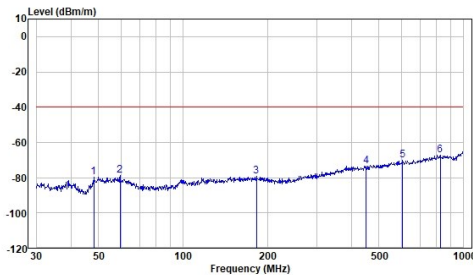
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7 Radiated Spurious emissions (below 1GHz)

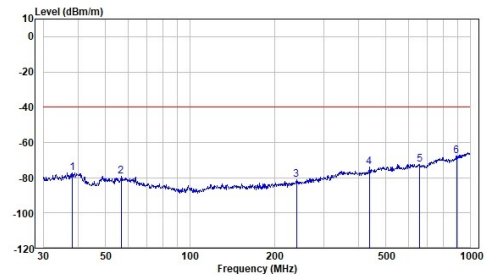
Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_30MHz-1GHz

For HRU-253537-DC

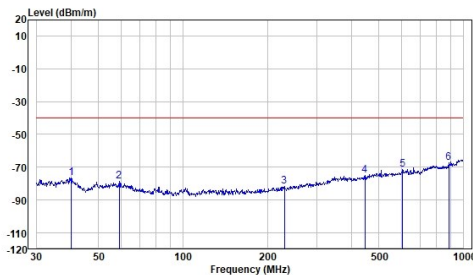


	Freq	Read	Correction	Level	Limit	Over	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	47.99	-73.87	-5.68	-79.47	-40.00	-39.47	VERTICAL
2	59.65	-75.86	-2.83	-78.69	-40.00	-38.69	VERTICAL
3	182.56	-76.09	-3.28	-79.37	-40.00	-39.37	VERTICAL
4	449.56	-75.30	1.87	-73.43	-40.00	-33.43	VERTICAL
5	607.79	-74.55	4.44	-70.11	-40.00	-30.11	VERTICAL
6	827.49	-75.28	8.13	-67.15	-40.00	-27.15	VERTICAL

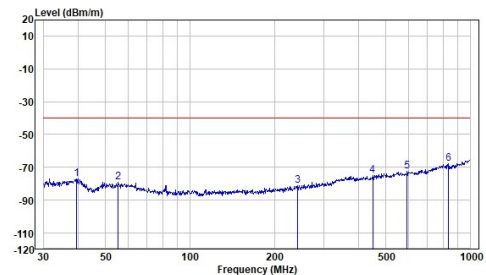


	Freq	Read	Correction	Level	Limit	Over	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	38.08	-76.67	-0.60	-77.27	-40.00	-37.27	HORIZONTAL
2	56.79	-76.14	-2.90	-79.04	-40.00	-39.04	HORIZONTAL
3	239.99	-75.59	-5.64	-81.23	-40.00	-41.23	HORIZONTAL
4	435.59	-73.53	-0.57	-74.10	-40.00	-34.10	HORIZONTAL
5	661.15	-75.14	2.79	-72.35	-40.00	-32.35	HORIZONTAL
6	893.86	-75.30	7.71	-67.59	-40.00	-27.59	HORIZONTAL

For HRU-253537-AC



	Freq	Read	Correction	Level	Limit	Over	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	39.99	-76.25	-0.22	-76.47	-40.00	-36.47	HORIZONTAL
2	59.23	-75.84	-2.82	-78.66	-40.00	-38.66	HORIZONTAL
3	230.10	-75.77	-5.86	-81.63	-40.00	-41.63	HORIZONTAL
4	444.85	-74.84	-0.30	-75.14	-40.00	-35.14	HORIZONTAL
5	607.79	-73.85	2.65	-71.20	-40.00	-31.20	HORIZONTAL
6	807.61	-75.00	7.45	-67.55	-40.00	-27.55	HORIZONTAL



	Freq	Read	Correction	Level	Limit	Over	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	39.44	-76.60	-0.31	-76.91	-40.00	-36.91	HORIZONTAL
2	55.41	-76.43	-2.98	-79.41	-40.00	-39.41	HORIZONTAL
3	242.53	-75.63	-5.58	-81.21	-40.00	-41.21	HORIZONTAL
4	447.98	-74.98	-0.19	-75.17	-40.00	-35.17	HORIZONTAL
5	595.13	-75.11	2.48	-72.63	-40.00	-32.63	HORIZONTAL
6	836.24	-74.42	6.52	-67.90	-40.00	-27.90	HORIZONTAL

Remark:

Pre-test was performed for all modes (LCH/MCH/HCH, with GSM signal/ with 4.1MHz AWGN signals/ with 100MHz AWGN signals), the test result always keeps more than 20dB margin, the spurious emissions 9kHz to 30MHz were very low and not displayed in this report. Therefore, only show the worst-case data in this report.



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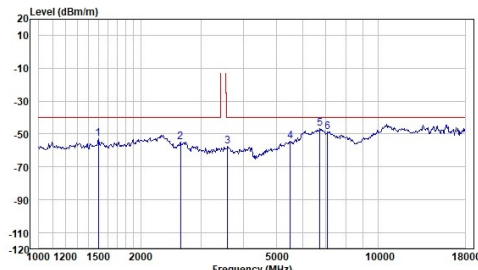
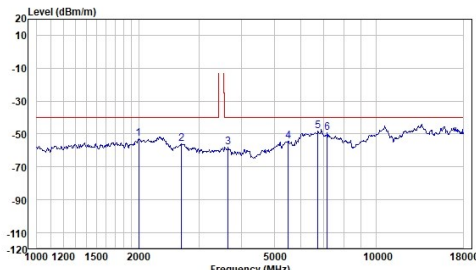
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7 Radiated Spurious emissions (above 1GHz)

Radiated Spurious emissions							
DL_4.1MHz AWGN_MCH_above 1GHz							
							
	Freq	Read Level	Correction Factor	Level	Limit	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1498.78	-59.83	6.97	-52.86	-39.99	-12.87	VERTICAL
2	2618.22	-60.64	5.61	-55.03	-39.99	-15.04	VERTICAL
3	3598.20	-62.40	4.86	-57.54	-40.00	-17.54	VERTICAL
4	5503.14	-69.22	14.57	-54.65	-40.00	-14.65	VERTICAL
5	6717.76	-67.60	20.83	-46.77	-40.00	-6.77	VERTICAL
6	7076.52	-68.41	19.82	-48.59	-40.00	-8.59	VERTICAL

	Freq	Read Level	Correction Factor	Level	Limit	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	2001.08	-62.75	9.88	-52.87	-39.99	-12.88	HORIZONTAL
2	2671.73	-60.74	4.84	-55.90	-39.99	-15.91	HORIZONTAL
3	3661.15	-62.27	4.06	-58.21	-40.00	-18.21	HORIZONTAL
4	5503.14	-68.99	14.53	-54.46	-40.00	-14.46	HORIZONTAL
5	6717.76	-68.41	20.32	-48.09	-40.00	-8.09	HORIZONTAL
6	7158.81	-68.11	18.71	-49.40	-40.00	-9.40	HORIZONTAL

Remark:

Pre-test was performed for all modes (LCH/MCH/HCH, with GSM signal/ with 4.1MHz AWGN signals/ with 100MHz AWGN signals), the test result always keeps more than 20dB margin, the spurious emissions above 18GHz were very low and not displayed in this report. Therefore, only show the worst-case data in this report.

--End of Appendix--