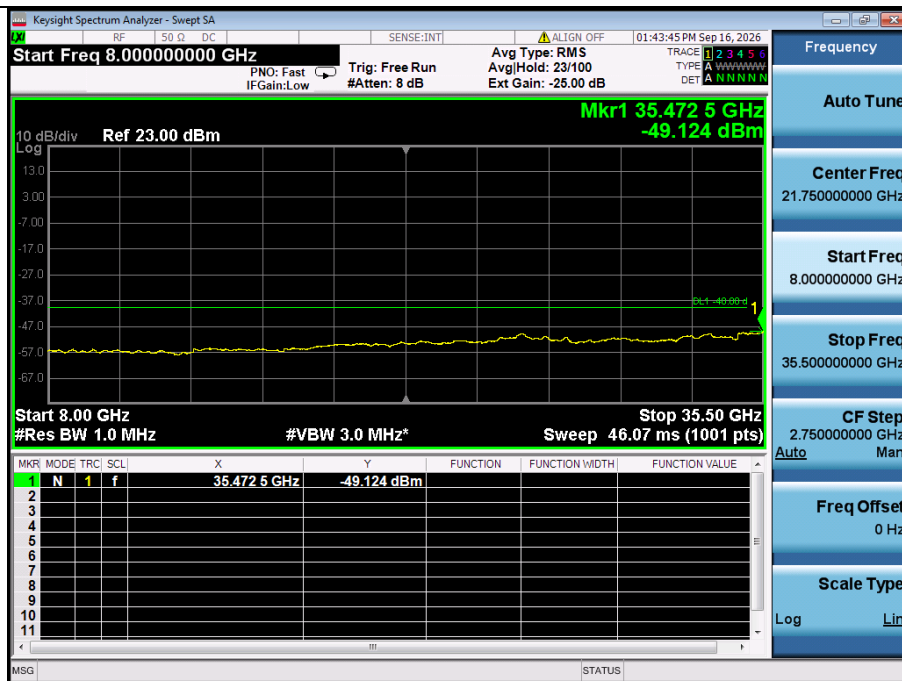
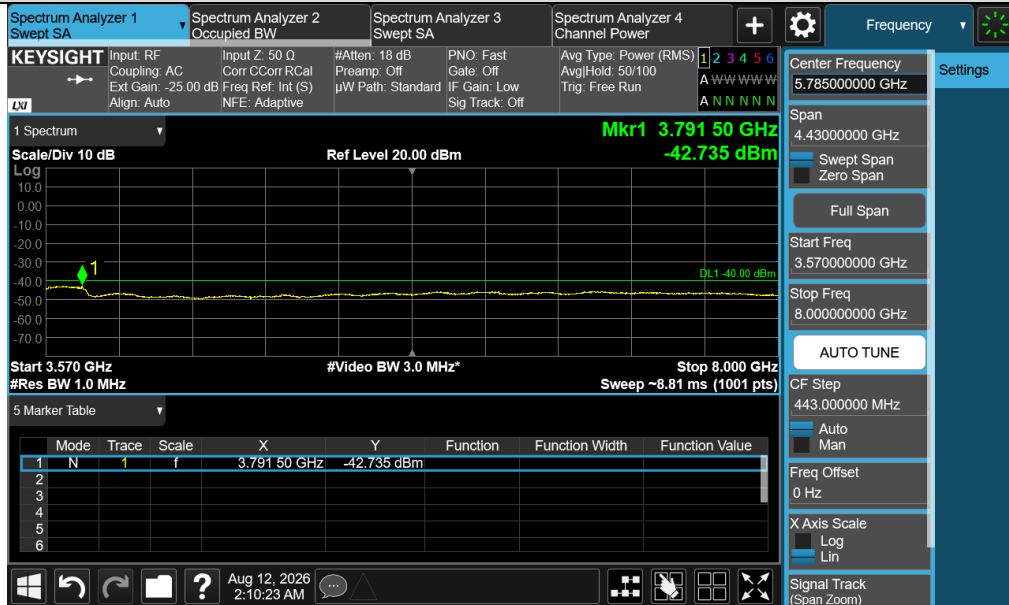


Conducted spurious emissions

UL_4.1MHz AWGN_HCH_Pre-AGC



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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	2.2	0.00063	PASS
			TN	VH	2.2	0.00063	PASS
		100MHz AWGN	TN	VL	2.1	0.00060	PASS
			TN	VH	2.1	0.00060	PASS
		GSM	TN	VL	3.0	0.00086	PASS
			TN	VH	3.0	0.00086	PASS
UL	MCH	4.1MHz AWGN	TN	VL	2.4	0.00069	PASS
			TN	VH	2.4	0.00069	PASS
		100MHz AWGN	TN	VL	2.6	0.00074	PASS
			TN	VH	2.6	0.00074	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	1.5	0.00043	PASS
			VN	+40	2.0	0.00057	PASS
			VN	+30	1.4	0.00040	PASS
			VN	+20	1.9	0.00054	PASS
			VN	+10	2.1	0.00060	PASS
			VN	0	1.9	0.00054	PASS
			VN	-10	1.9	0.00054	PASS
			VN	-20	1.2	0.00034	PASS
			VN	-30	1.2	0.00034	PASS
	MCH	100MHz AWGN	VN	+50	1.1	0.00031	PASS
			VN	+40	1.3	0.00037	PASS
			VN	+30	1.4	0.00040	PASS
			VN	+20	1.3	0.00037	PASS
			VN	+10	1.9	0.00054	PASS
			VN	0	2.0	0.00057	PASS
			VN	-10	1.5	0.00043	PASS
			VN	-20	2.0	0.00057	PASS
			VN	-30	1.4	0.00040	PASS
	MCH	GSM	VN	+50	1.9	0.00054	PASS
			VN	+40	2.1	0.00060	PASS
			VN	+30	1.9	0.00054	PASS
			VN	+20	1.9	0.00054	PASS
			VN	+10	1.2	0.00034	PASS
			VN	0	1.2	0.00034	PASS
			VN	-10	1.1	0.00031	PASS
			VN	-20	1.3	0.00037	PASS
			VN	-30	1.4	0.00040	PASS



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SZCCS-TRF-01 Rev. A/2

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Frequency stability vs temperature							
Test Path	Test Channel	Test Signal	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
UL	MCH	4.1MHz AWGN	VN	+50	1.1	0.00031	PASS
			VN	+40	1.2	0.00034	PASS
			VN	+30	1.5	0.00043	PASS
			VN	+20	2.0	0.00057	PASS
			VN	+10	1.3	0.00037	PASS
			VN	0	1.3	0.00037	PASS
			VN	-10	1.6	0.00046	PASS
			VN	-20	1.1	0.00031	PASS
			VN	-30	1.1	0.00031	PASS
	MCH	100MHz AWGN	VN	+50	1.7	0.00049	PASS
			VN	+40	1.2	0.00034	PASS
			VN	+30	1.8	0.00051	PASS
			VN	+20	2.1	0.00060	PASS
			VN	+10	1.3	0.00037	PASS
			VN	0	1.4	0.00040	PASS
			VN	-10	2.1	0.00060	PASS
			VN	-20	1.9	0.00054	PASS
			VN	-30	1.9	0.00054	PASS
	MCH	GSM	VN	+50	1.4	0.00040	PASS
			VN	+40	1.8	0.00051	PASS
			VN	+30	1.5	0.00043	PASS
			VN	+20	1.1	0.00031	PASS
			VN	+10	1.2	0.00034	PASS
			VN	0	1.5	0.00043	PASS
			VN	-10	2.0	0.00057	PASS
			VN	-20	1.3	0.00037	PASS
			VN	-30	1.3	0.00037	PASS



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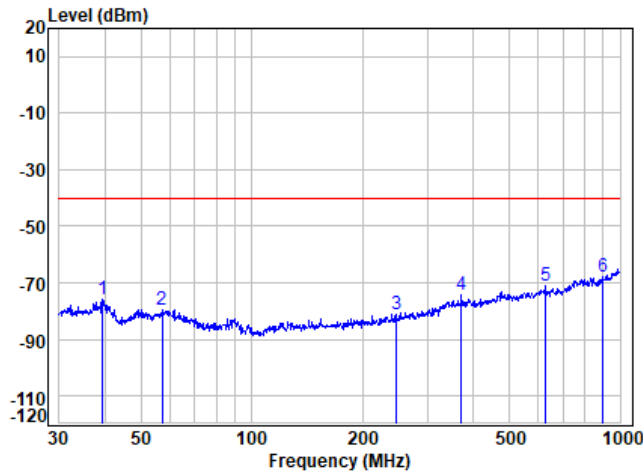
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7 Radiated Spurious emissions (below 1GHz)

Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_30MHz-1GHz



Condition:3m HORIZONTAL

Job No :

Mode :

	Freq	correction	Read	Limit	Over		Aux
	MHz	Factor	Level	Line	Limit	Remark	Factor
		dB	dBm	dBm	dBm		
1	39.44	-0.31	-75.65	-75.96	-40.00	-35.96 peak	0.00
2	56.99	-2.89	-76.63	-79.52	-40.00	-39.52 peak	0.00
3	246.81	-5.47	-75.51	-80.98	-40.00	-40.98 peak	0.00
4	370.70	-0.47	-73.90	-74.37	-40.00	-34.37 peak	0.00
5	625.08	2.67	-73.71	-71.04	-40.00	-31.04 peak	0.00
6	897.00	7.83	-75.88	-68.05	-40.00	-28.05 peak	0.00



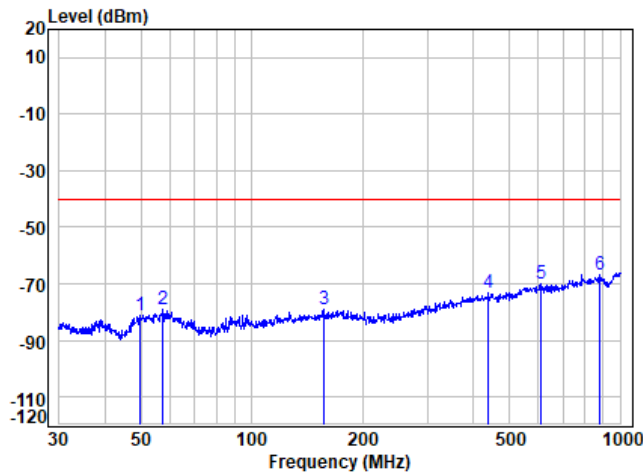
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Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_30MHz-1GHz



Condition:3m VERTICAL

Job No :

Mode :

	Freq	correction	Read	Limit	Over		Aux
	Factor	Level	Level	Line	Limit	Remark	Factor
	MHz	dB	dBm	dBm	dBm	dB	
1	49.71	-3.42	-77.91	-81.33	-40.00	-41.33 peak	0.00
2	57.19	-2.87	-75.92	-78.79	-40.00	-38.79 peak	0.00
3	156.46	-3.54	-75.73	-79.27	-40.00	-39.27 peak	0.00
4	440.20	1.78	-75.08	-73.30	-40.00	-33.30 peak	0.00
5	607.79	4.44	-74.62	-70.18	-40.00	-30.18 peak	0.00
6	878.32	8.47	-75.36	-66.89	-40.00	-26.89 peak	0.00

Remark:

Pre-test was performed for all modes (DL/UL, 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.

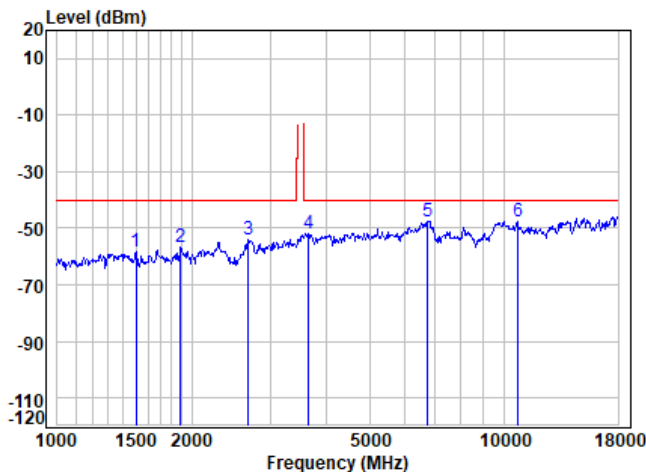


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7 Radiated Spurious emissions (above 1GHz)

Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_above 1GHz



Condition:3m HORIZONTAL

Job No :

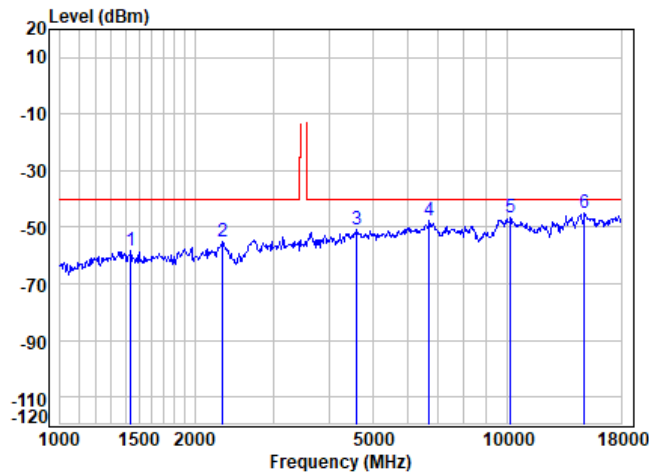
Mode :

	Freq	correction	Read	Limit	Over	Aux
	MHz	Factor	Level	Line	Limit	Remark
		dB	dBm	dBm	dB	
1	1498.78	1.34	-59.40	-58.06	-40.00	-18.06 Peak
2	1888.69	4.36	-60.86	-56.50	-40.00	-16.50 Peak
3	2679.46	6.77	-60.65	-53.88	-40.00	-13.88 Peak
4	3640.05	11.55	-63.28	-51.73	-40.00	-11.73 Peak
5	6717.76	16.45	-63.83	-47.38	-40.00	-7.38 Peak
6	10698.51	15.33	-62.98	-47.65	-40.00	-7.65 Peak



Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_above 1GHz



Condition:3m VERTICAL

Job No :

Mode :

	Freq	correction	Read	Limit	Over		Aux
	MHz	Factor	Level	Line	Limit	Remark	Factor
	MHz	dB	dBm	dBm	dBm	dB	
1	1439.34	1.96	-60.44	-58.48	-40.00	-18.48 Peak	0.00
2	2305.55	5.31	-60.34	-55.03	-40.00	-15.03 Peak	0.00
3	4613.59	11.74	-62.73	-50.99	-40.00	-10.99 Peak	0.00
4	6679.04	15.51	-63.10	-47.59	-40.00	-7.59 Peak	0.00
5	10156.14	17.07	-63.82	-46.75	-40.00	-6.75 Peak	0.00
6	14916.94	17.97	-62.98	-45.01	-40.00	-5.01 Peak	0.00

Remark:

Pre-test was performed for all modes (DL/UL, 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 the Report -



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