

Appendix -

Test Data and Result for report

GZCR230600056703

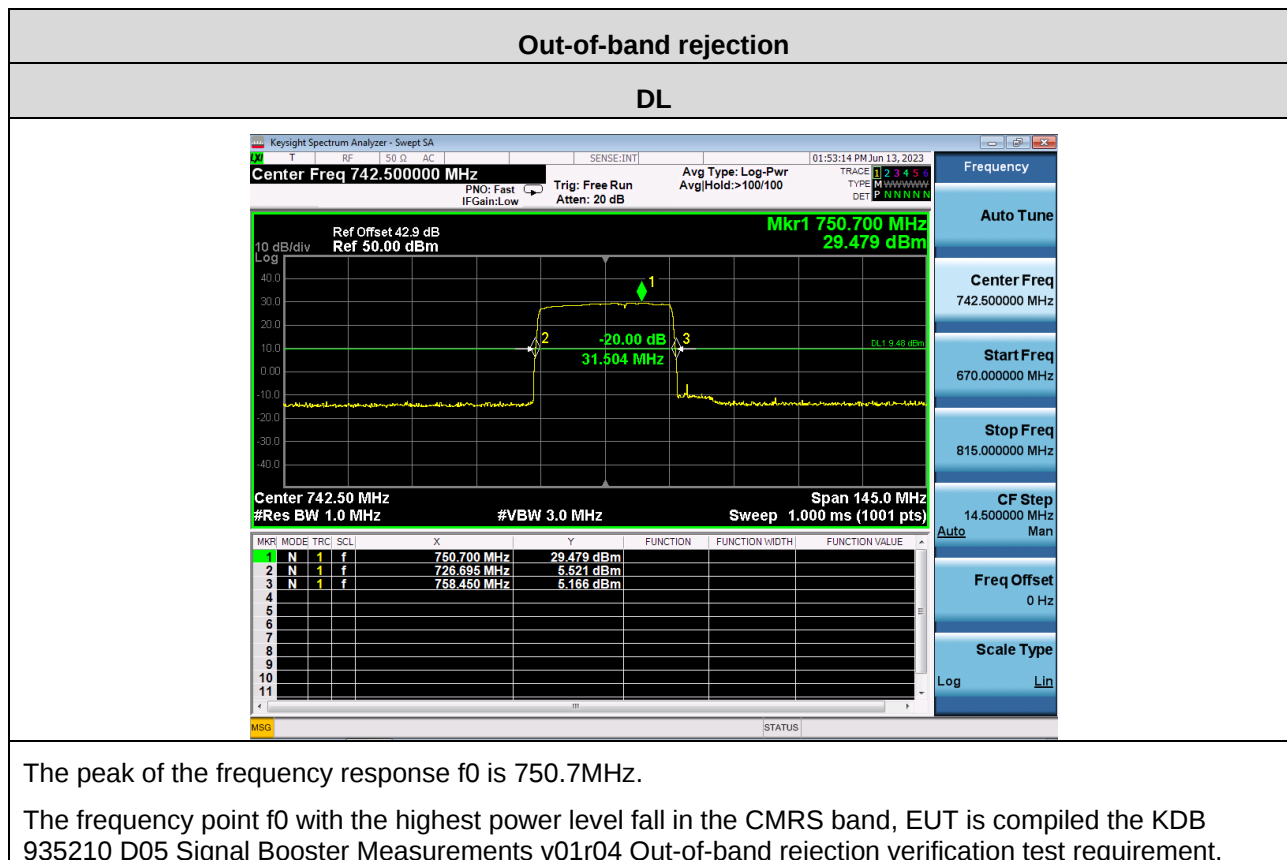
(For Lower & Upper 700MHz Band DL)



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1 Out-of-band rejection



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2 Input versus Output comparison

Occupied Bandwidth				
Test Path	Test Signal	Test Channel	Signal Level	Verdict
DL	4.1MHz AWGN	MCH	Pre-AGC	PASS
			3dB above AGC	PASS
	100MHz AWGN	MCH	Pre-AGC	PASS*
			3dB above AGC	PASS*
	GSM	MCH	Pre-AGC	PASS
			3dB above AGC	PASS

Remark:

- * The band supports maximum channel BW is 20MHz for NR, so the output signal OBW was less than the input when 100MHz AWGN was as stimulus signal.
- Compare the spectral plot of the input signal to the output signal affirm that they are similar (in passband and roll off characteristic features and relative spectral locations). The test result complies with the requirement.

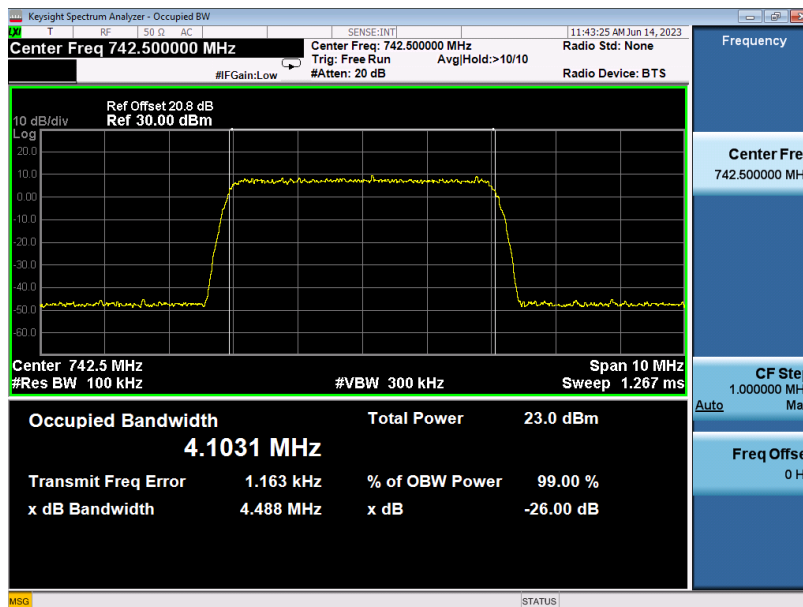


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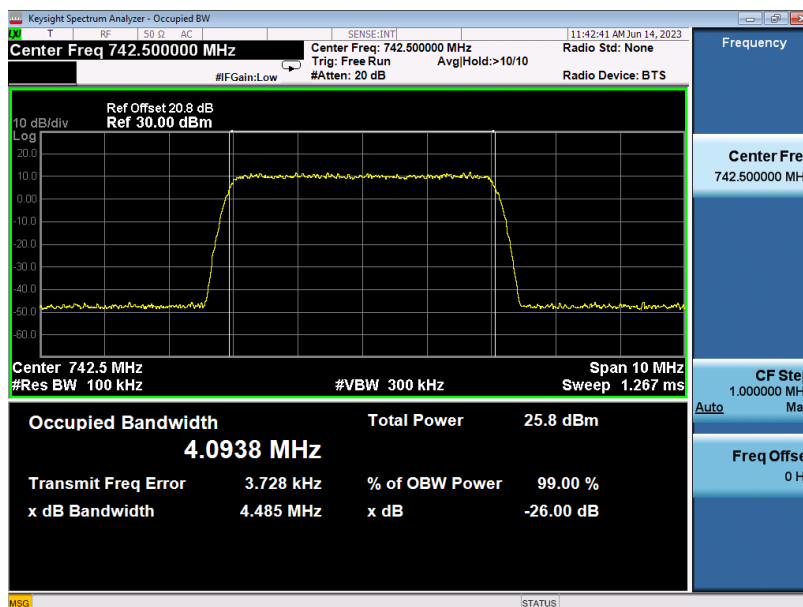
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99% OBW

DL_4.1MHz AWGN_MCH_Input_Pre-AGC



DL_4.1MHz AWGN_MCH_Input_3dB above AGC

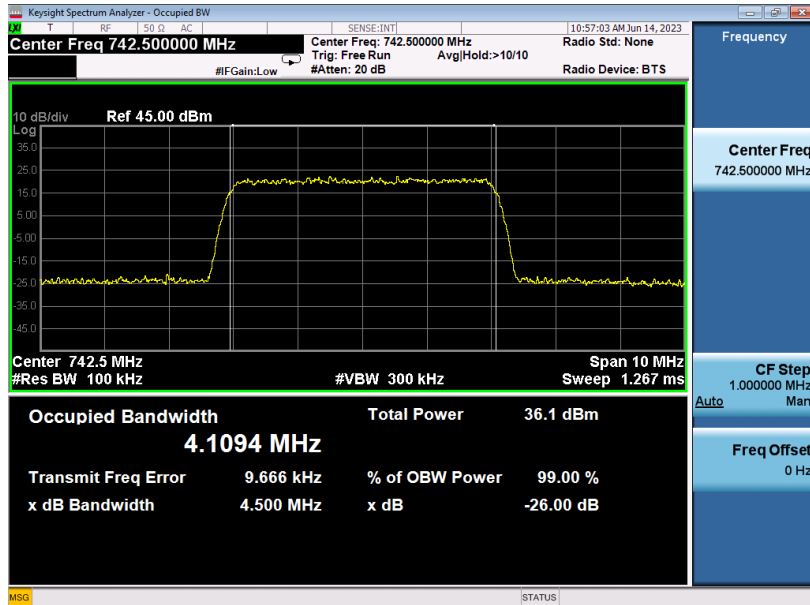


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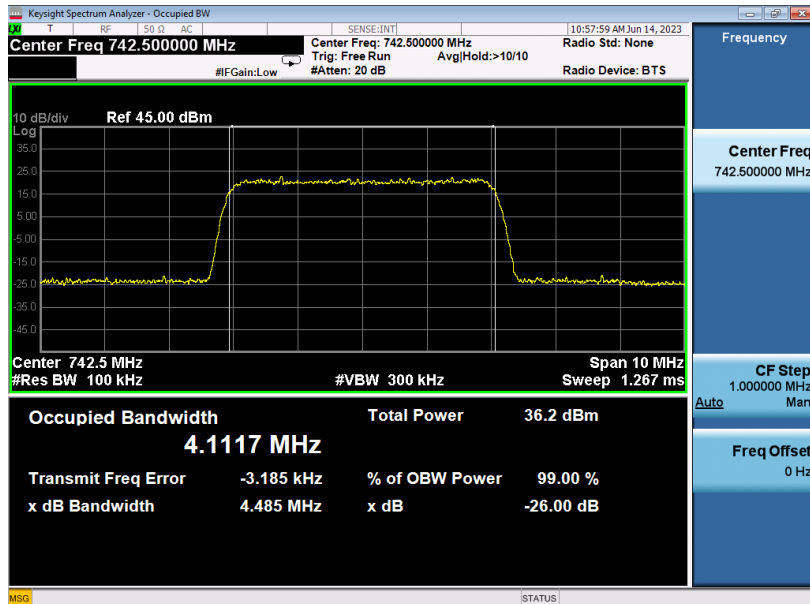
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99% OBW

DL_4.1MHz AWGN_MCH_Output_Pre-AGC

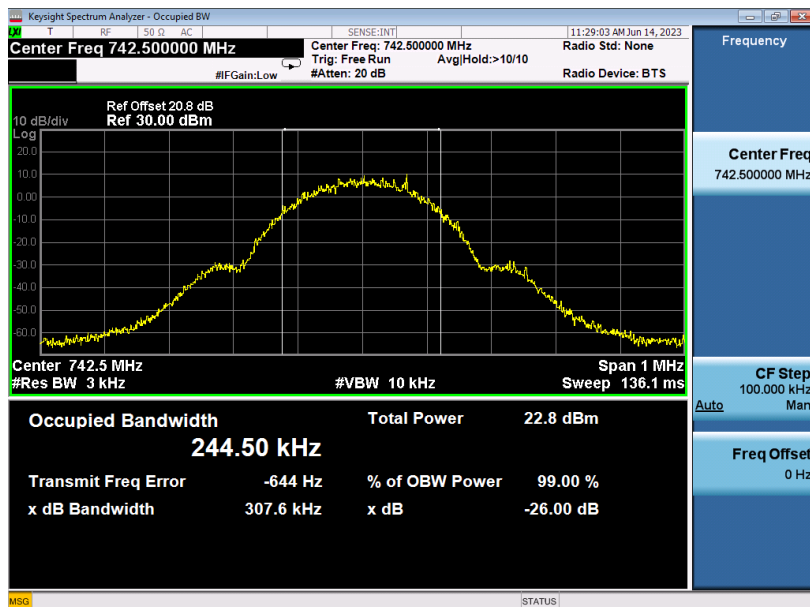


DL_4.1MHz AWGN_MCH_Output_3dB above AGC

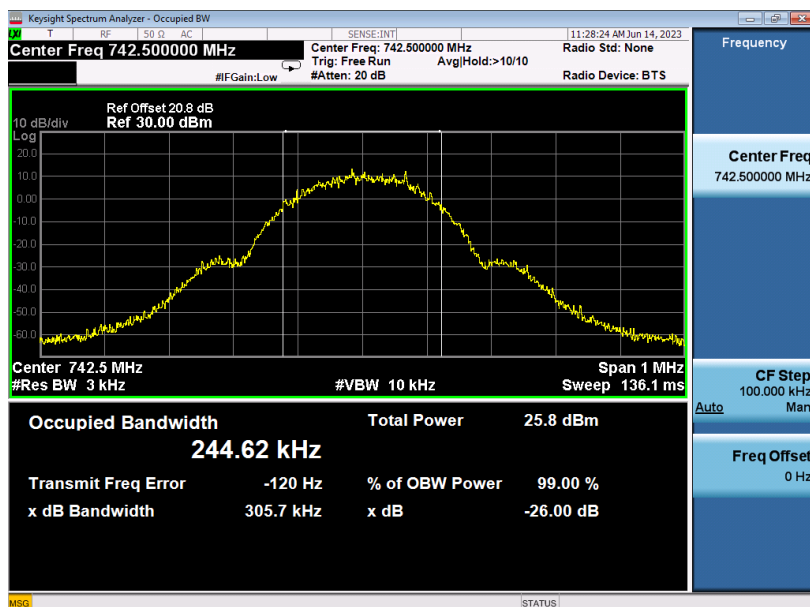


99% OBW

DL_GSM_MCH_Input_Pre-AGC



DL_GSM_MCH_Input_3dB above AGC

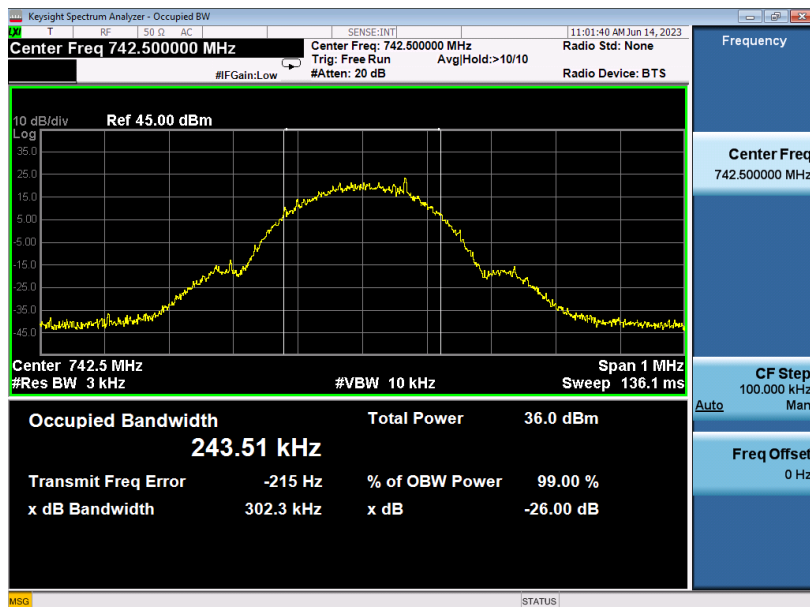


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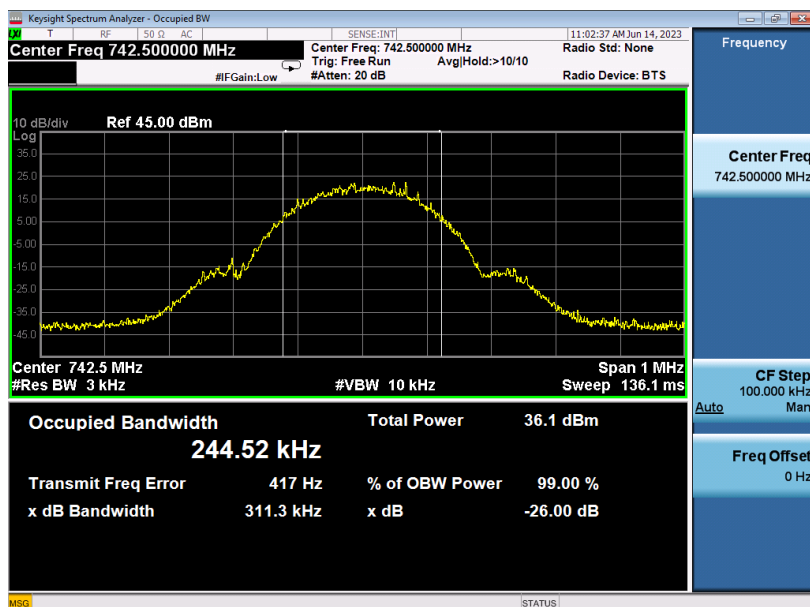
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99% OBW

DL_GSM_MCH_Output_Pre-AGC



DL_GSM_MCH_Output_3dB above AGC



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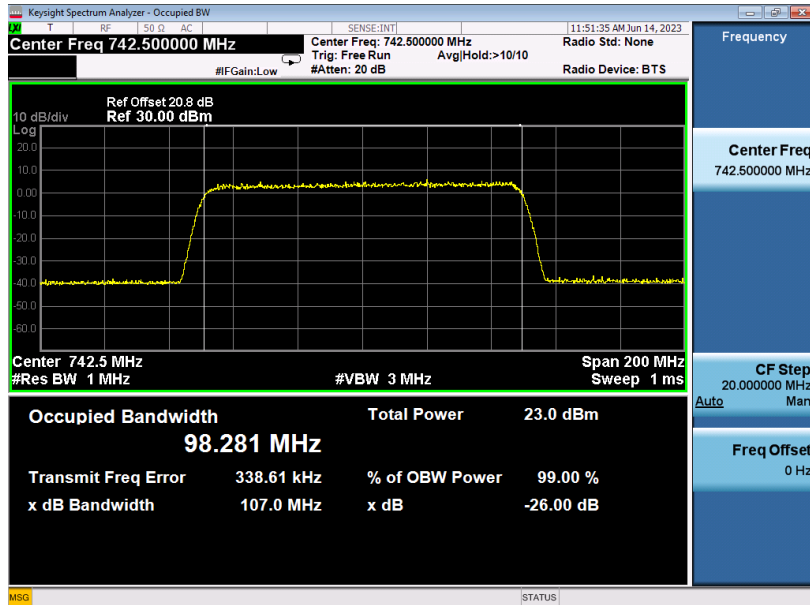
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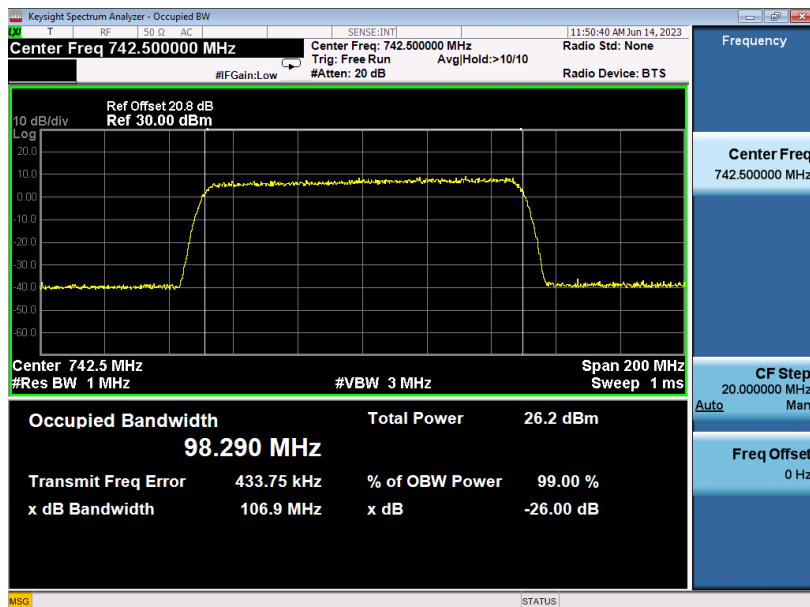
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99% OBW

DL_100MHz AWGN_MCH_Input_Pre-AGC



DL_100MHz AWGN_MCH_Input_3dB above AGC

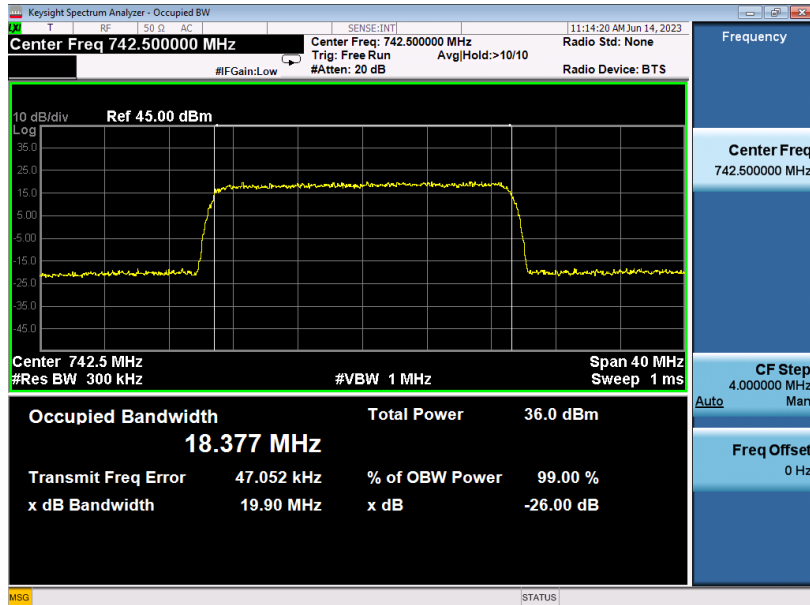


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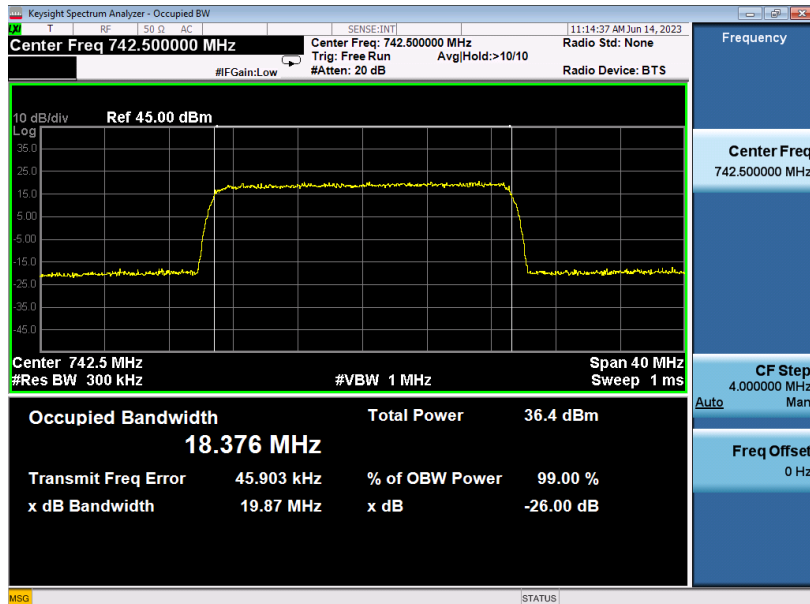
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99% OBW

DL_100MHz AWGN_MCH_Output_Pre-AGC



DL_100MHz AWGN_MCH_Output_3dB above AGC



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3 Mean output power and amplifier/booster gain

Mean output power and gain								
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Input power (dBm)	Output Power (dBm)	SISO ERP (W)	Total ERP (W)	Gain (dB)
DL	750.7	4.1MHz AWGN	Pre-AGC	23.00	35.92	23.83	95.29	12.92
			3dB above AGC	26.00	36.01	24.33	97.28	/
		100MHz AWGN	Pre-AGC	18.00	30.32	6.57	26.25	12.32
			3dB above AGC	21.00	31.65	8.92	35.65	/
		GSM	Pre-AGC	23.00	36.62	27.99	111.95	13.62
			3dB above AGC	26.00	36.21	25.47	101.86	/
Remark: 1. f0 is from Out-of-band Rejection test in the report. 2. ERP= output power (dBm)+ antenna gain (dBi)- 2.15, the antenna gain is 10dBi declared by the manufacturer, the directional gain = $G_{ANT} + 10 \log (N_{ANT})$ dBi = 13dBi. 3. The conducted test performed at ANT 1 port only due to the two MIMO ports with identical design(Hardware & software) and radio output.								

Mean output power							
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Output Power (dBm/MHz)	SISO ERP (W/MHz)	Total ERP (W/MHz)	Verdict
DL	750.7	4.1MHz AWGN	Pre-AGC	29.55	5.50	21.98	PASS
			3dB above AGC	30.05	6.17	24.67	PASS
		100MHz AWGN	Pre-AGC	16.71	0.29	1.15	PASS
			3dB above AGC	17.11	0.32	1.26	PASS
		GSM	Pre-AGC	36.62	27.99	111.95	PASS
			3dB above AGC	36.21	25.47	101.86	PASS
Remark: 1. f0 is from Out-of-band Rejection test in the report. 2. ERP= output power (dBm)+ antenna gain (dBi)- 2.15, the antenna gain is 10dBi declared by the manufacturer, the directional gain = $G_{ANT} + 10 \log (N_{ANT})$ dBi = 13dBi. 3. The output power is limited to an ERP of 1000W/MHz. 4. The conducted test performed at ANT 1 port only due to the two MIMO ports with identical design(Hardware & software) and radio output.							



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4 Out-of-band/out-of-block(including intermodulation) emissions

Out-of-band/out-of-block(including intermodulation) emissions							
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level (dBm)	Limit (dBm)	Verdict
DL	LCH	4.1MHz AWGN	One signal input	Pre-AGC	-30.19	≤-16	PASS
				3dB above AGC	-29.69		PASS
			Two signals input	Pre-AGC	-35.87		PASS
				3dB above AGC	-34.74		PASS
	HCH		One signal input	Pre-AGC	-29.29		PASS
				3dB above AGC	-28.63		PASS
			Two signals input	Pre-AGC	-36.38		PASS
				3dB above AGC	-36.67		PASS
DL	LCH	100MHz AWGN	One signal input	Pre-AGC	-19.99	≤-16	PASS
				3dB above AGC	-20.60		PASS
			Two signals input	Pre-AGC	-23.19		PASS
				3dB above AGC	-22.74		PASS
	HCH		One signal input	Pre-AGC	-21.35		PASS
				3dB above AGC	-21.31		PASS
			Two signals input	Pre-AGC	-23.97		PASS
				3dB above AGC	-23.54		PASS

Remark:

1. The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log_{10}(P)$ dB, here,

$$P = 36\text{dBm} = 3.98\text{W}$$

$$\text{the limit} = 36\text{dBm} - [43 + 10 \log_{10}(3.98\text{W})] \text{ dB} = -13\text{dBm}$$

2. For 2×2 MIMO, ANT1 port was measured and the limit was showed $-13\text{dBm} - 10\lg(2) = -16\text{dBm}$ to determine the test result conveniently.



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Out-of-band/out-of-block(including intermodulation) emissions							
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level (dBm)	Limit (dBm)	Verdict
DL	LCH	GSM	One signal input	Pre-AGC	-20.68	≤-16	PASS
				3dB above AGC	-19.00		PASS
			Two signals input	Pre-AGC	-21.24		PASS
				3dB above AGC	-21.91		PASS
	HCH		One signal input	Pre-AGC	-20.72		PASS
				3dB above AGC	-19.83		PASS
			Two signals input	Pre-AGC	-35.11		PASS
				3dB above AGC	-34.24		PASS
Remark:							
1. The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log_{10}(P)$ dB, here, P = 36dBm = 3.98W the limit = 36dBm – [43 + 10 log ₁₀ (3.98W)] dB = -13dBm							
2. For 2×2 MIMO, ANT1 port was measured and the limit was showed -13dBm- 10lg(2)= -16dBm to determine the test result conveniently.							

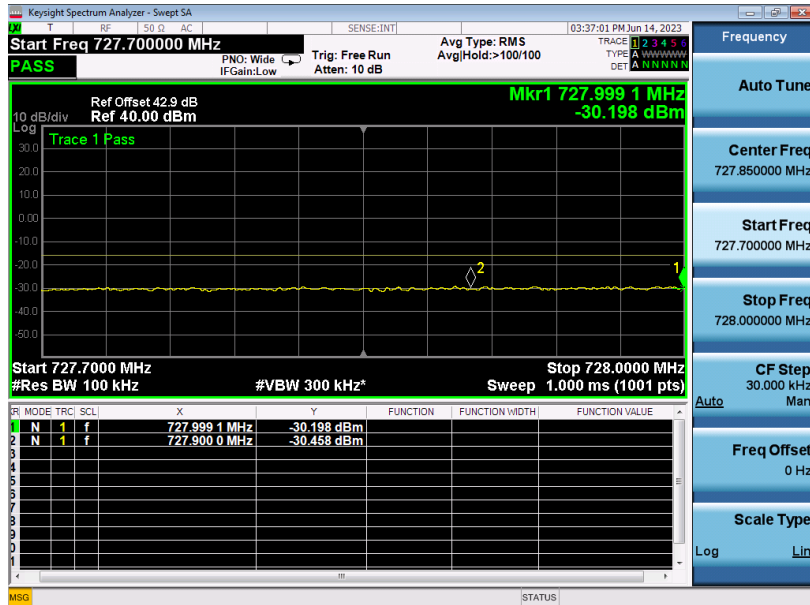


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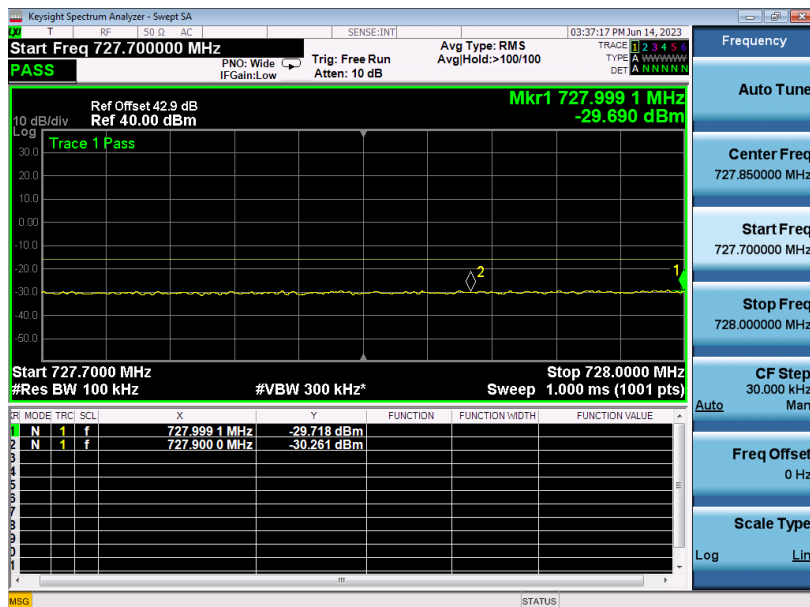
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_LCH_a single test signal_Pre-AGC



DL_4.1MHz AWGN_LCH_a single test signal_3dB above AGC

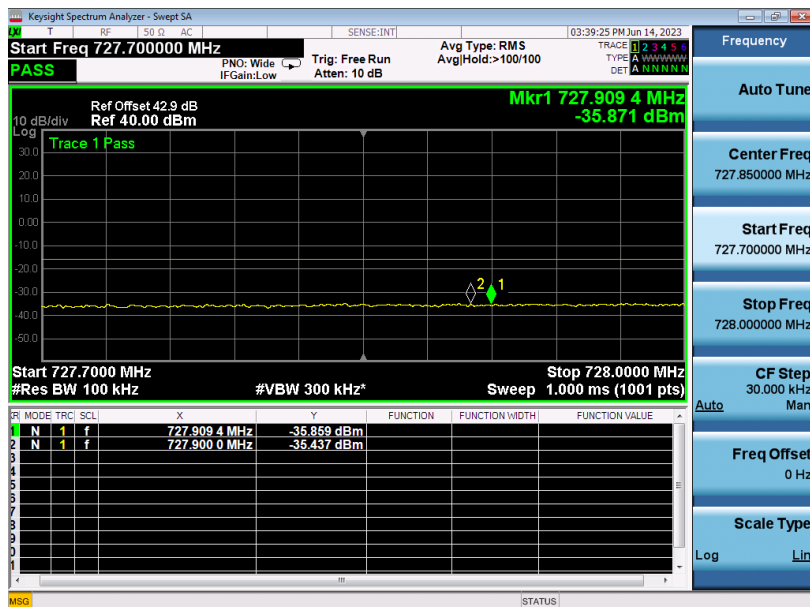


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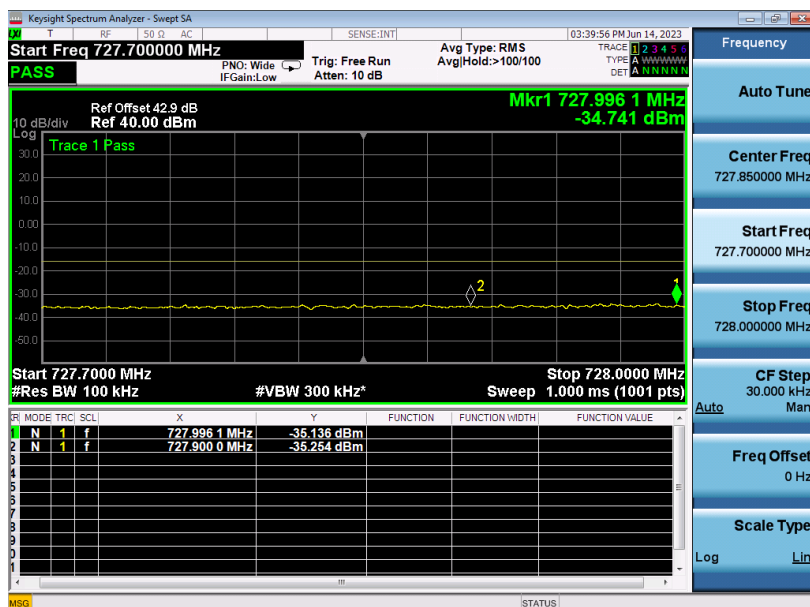
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_LCH_two adjacent test signals_Pre-AGC



DL_4.1MHz AWGN_LCH_two adjacent test signals_3dB above AGC

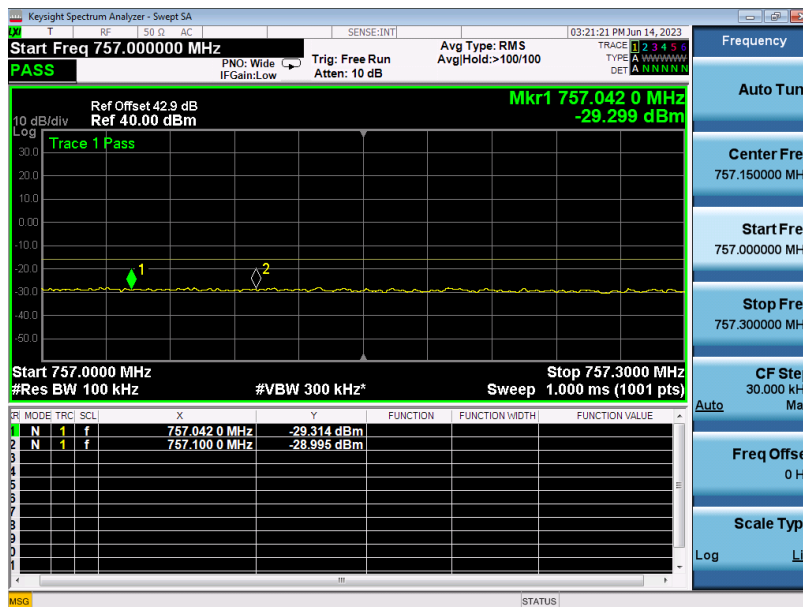


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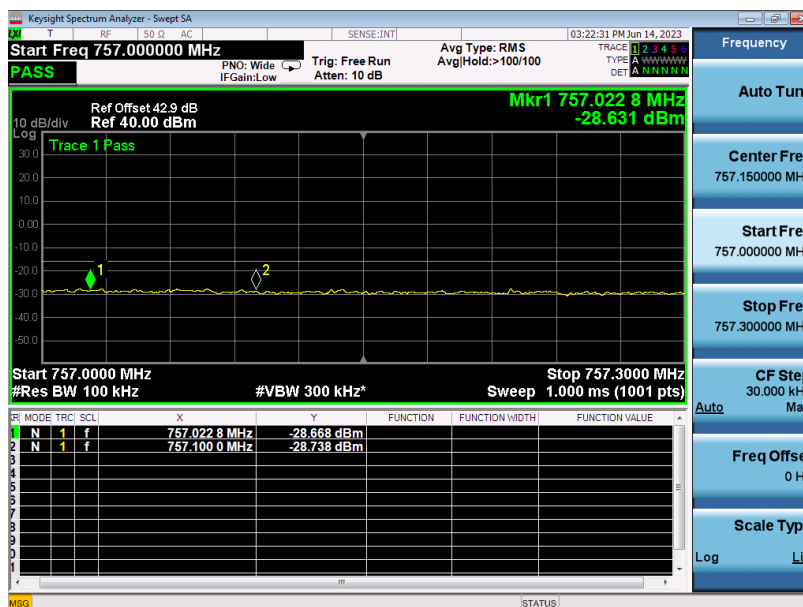
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_HCH_a single test signal_Pre-AGC



DL_4.1MHz AWGN_HCH_a single test signal_3dB above AGC

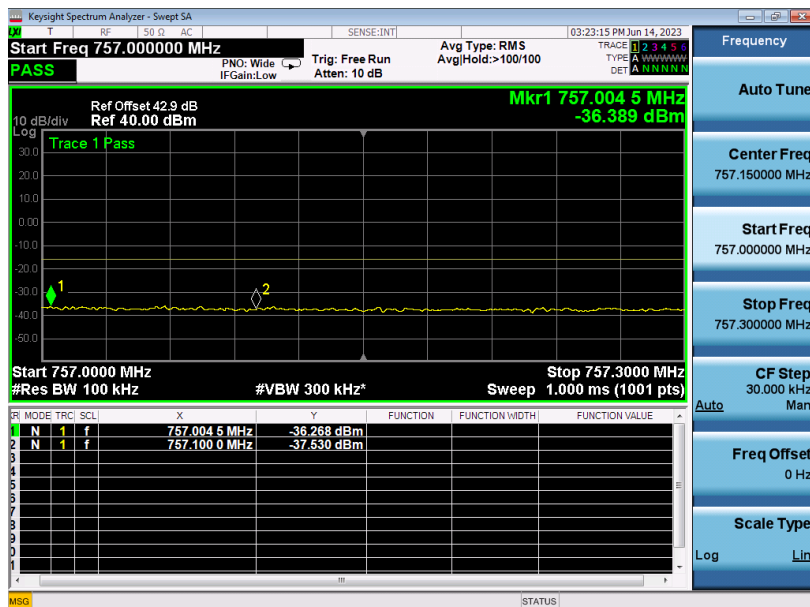


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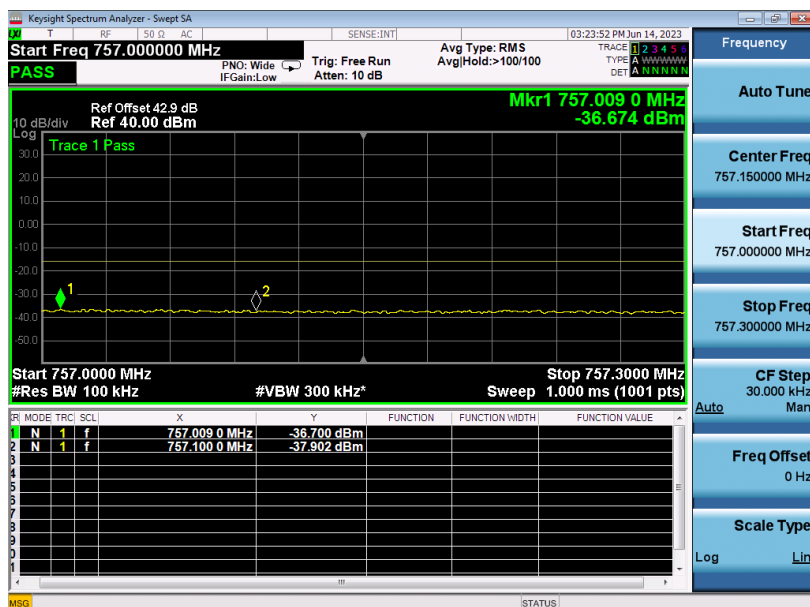
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_HCH_two adjacent test signals_Pre-AGC



DL_4.1MHz AWGN_HCH_two adjacent test signals_3dB above AGC



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Out-of-band/out-of-block emissions

DL_100MHz AWGN_LCH_a single test signal_Pre-AGC



DL_100MHz AWGN_LCH_a single test signal_3dB above AGC

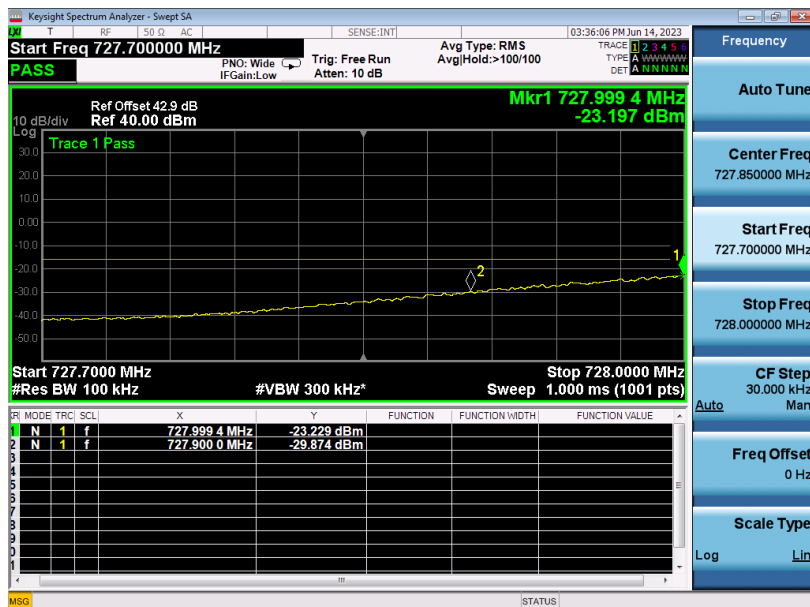


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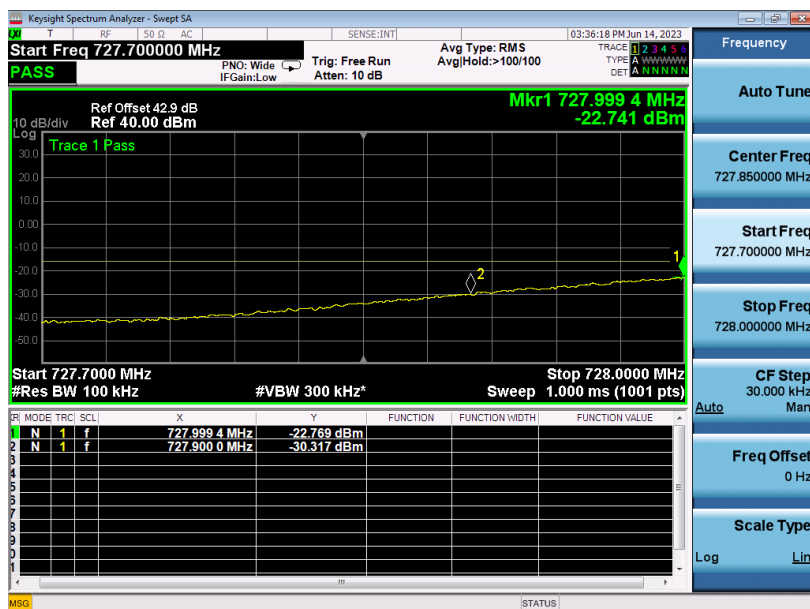
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Out-of-band/out-of-block emissions

DL_100MHz AWGN_LCH_two adjacent test signals_Pre-AGC



DL_100MHz AWGN_LCH_two adjacent test signals_3dB above AGC



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Out-of-band/out-of-block emissions

DL_100MHz AWGN_HCH_a single test signal_Pre-AGC



DL_100MHz AWGN_HCH_a single test signal_3dB above AGC



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Out-of-band/out-of-block emissions

DL_100MHz AWGN_HCH_two adjacent test signals_Pre-AGC



DL_100MHz AWGN_HCH_two adjacent test signals_3dB above AGC



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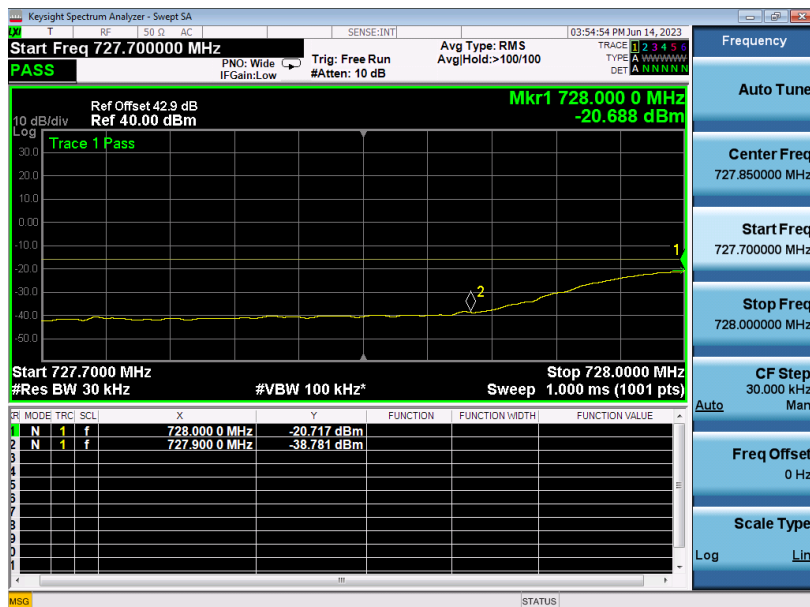
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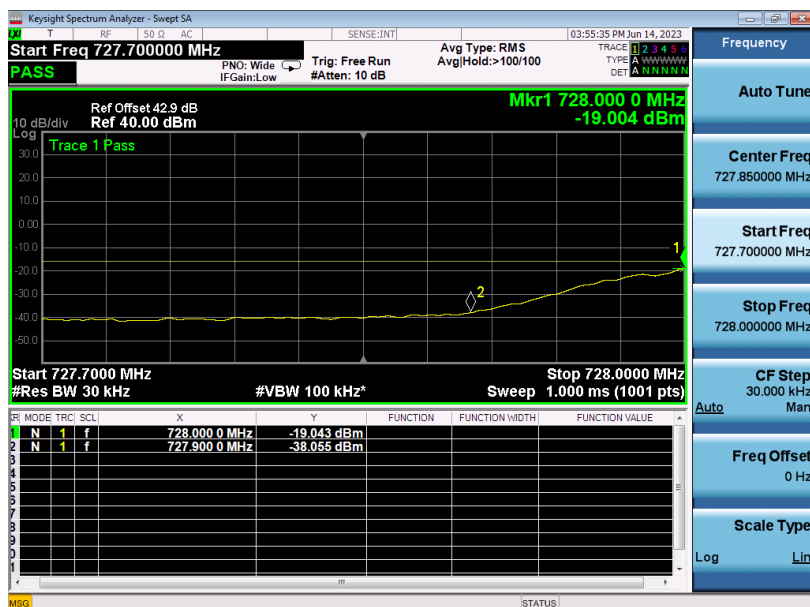
No.196 Kezhu Road, Science Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgs.com.cn
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

Out-of-band/out-of-block emissions

DL_GSM_LCH_a single test signal_Pre-AGC



DL_GSM_LCH_a single test signal_3dB above AGC

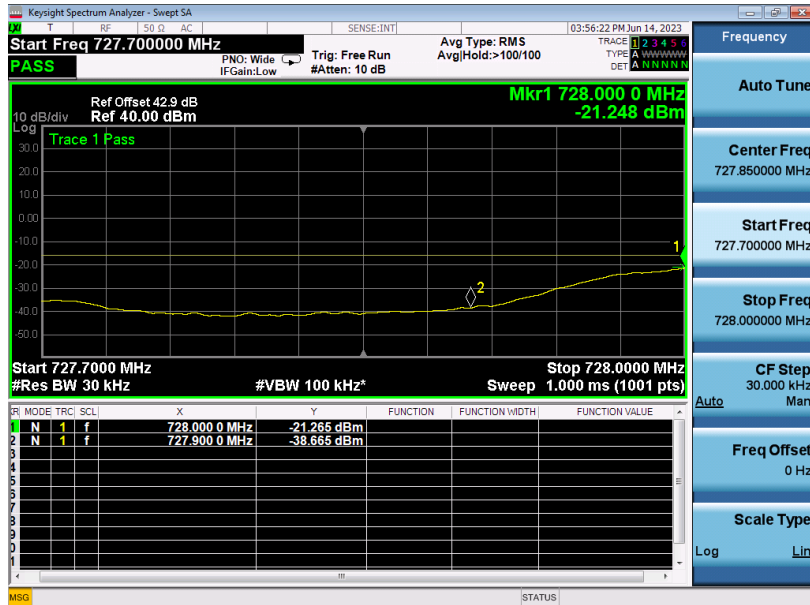


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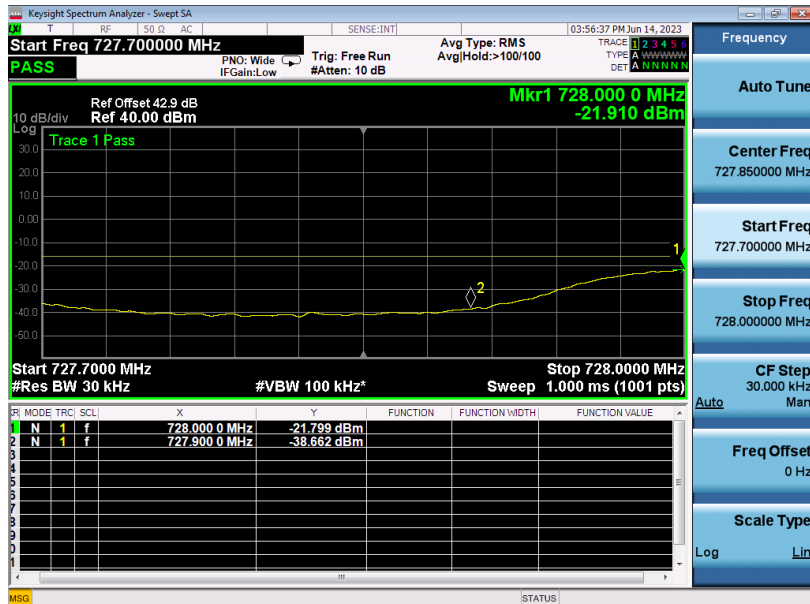
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Out-of-band/out-of-block emissions

DL_GSM_LCH_two adjacent test signals_Pre-AGC



DL_GSM_LCH_two adjacent test signals_3dB above AGC

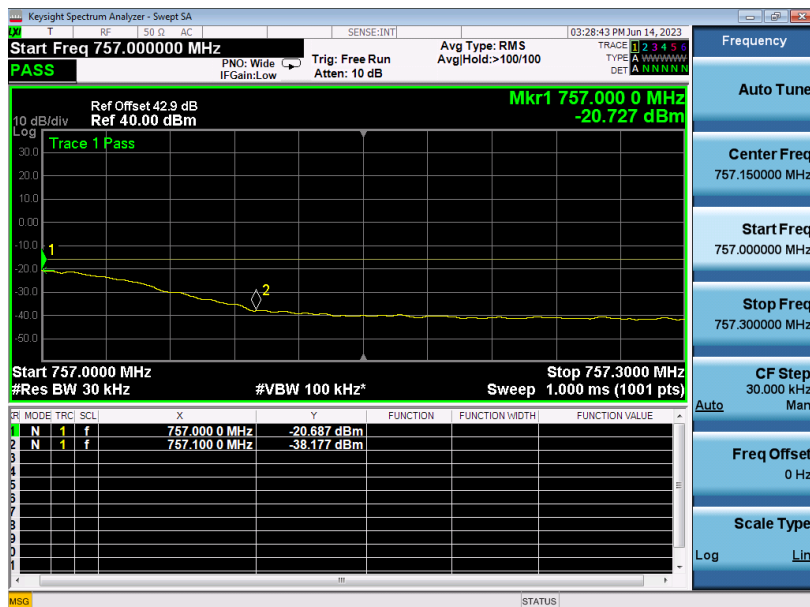


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Out-of-band/out-of-block emissions

DL_GSM_HCH_a single test signal_Pre-AGC



DL_GSM_HCH_a single test signal_3dB above AGC

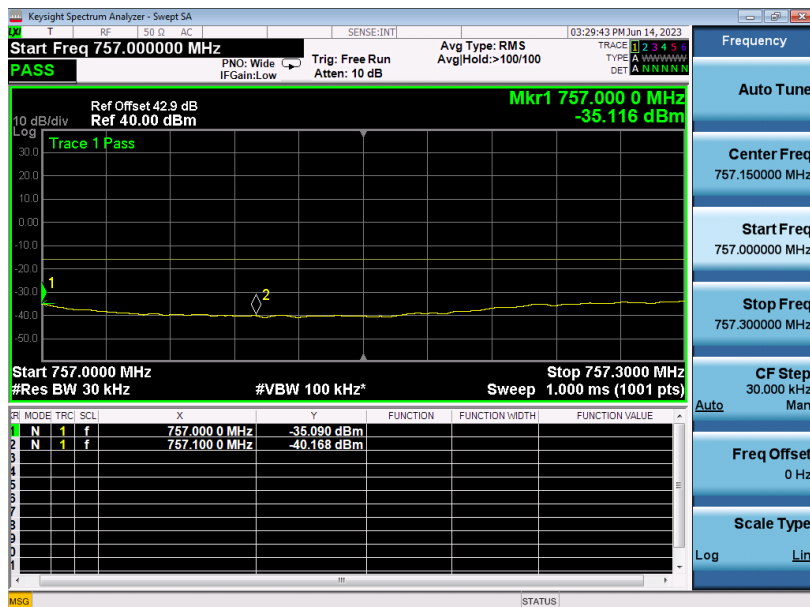


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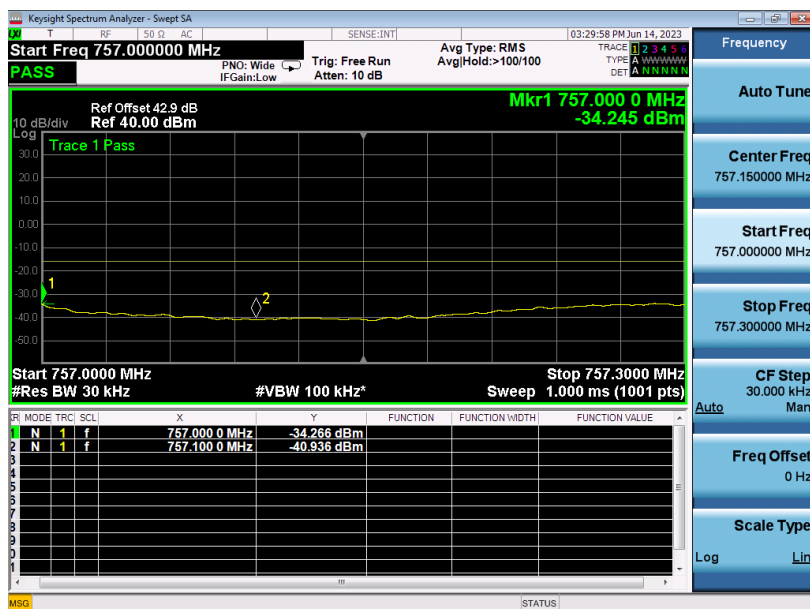
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Out-of-band/out-of-block emissions

DL_GSM_HCH_two adjacent test signals_Pre-AGC



DL_GSM_HCH_two adjacent test signals_3dB above AGC



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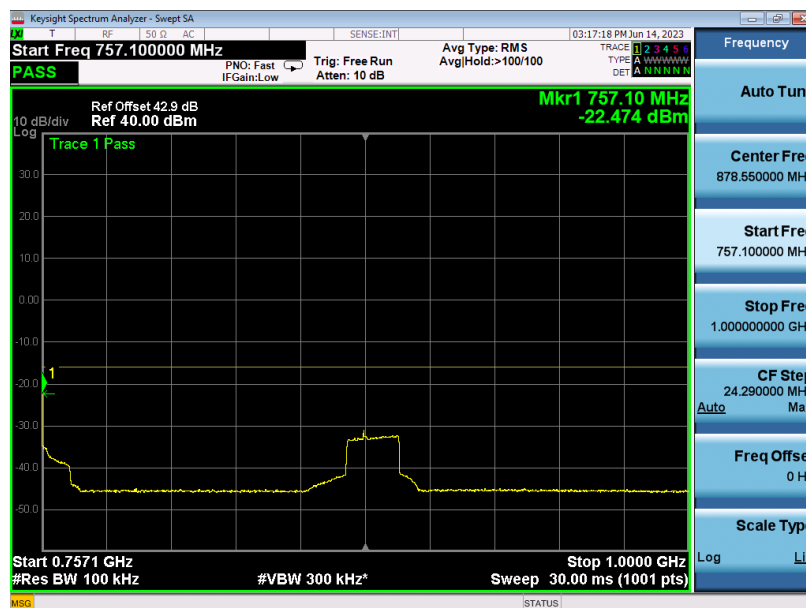
5 Conducted Spurious emissions

Conducted spurious emissions

DL_100MHz AWGN_LCH_Pre-AGC



DL_100MHz AWGN_HCH_Pre-AGC

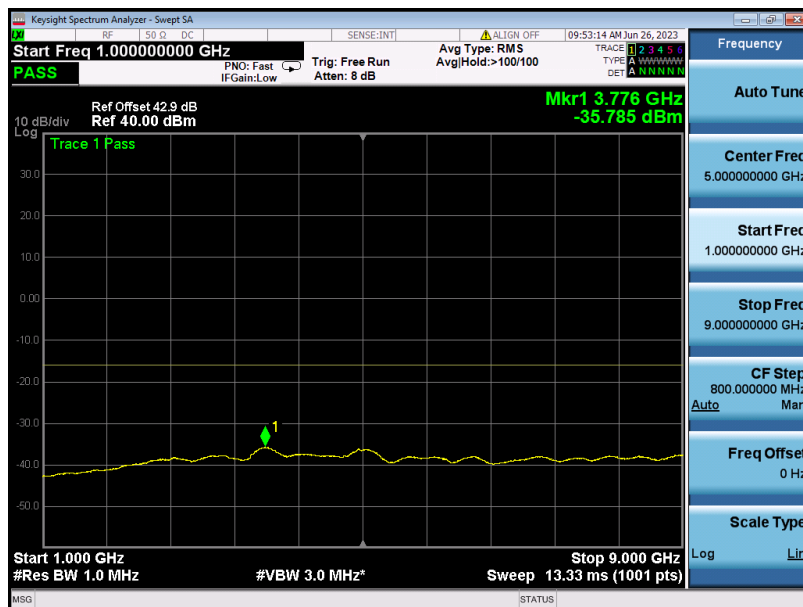


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Conducted spurious emissions

DL_100MHz AWGN_HCH_Pre-AGC



DL_100MHz AWGN_HCH_Pre-AGC

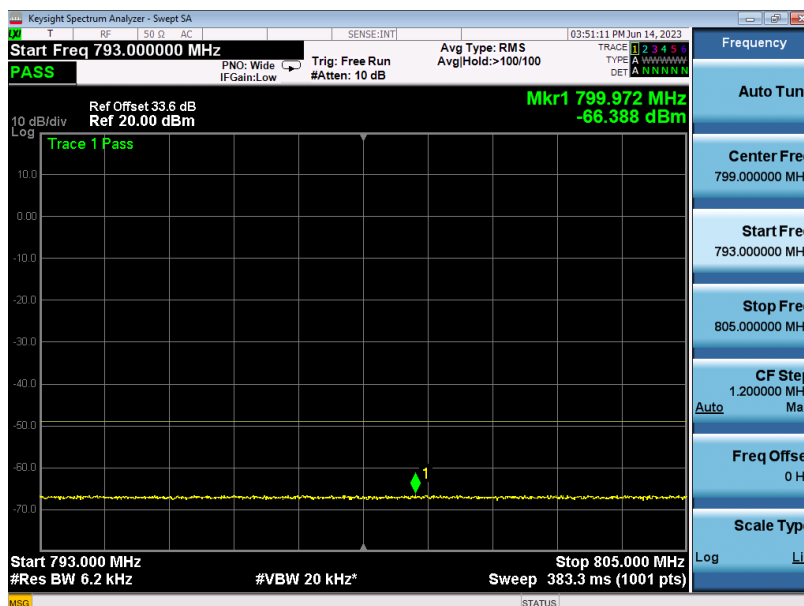


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Conducted spurious emissions

DL_100MHz AWGN_HCH_Pre-AGC



Remark:

FCC part 27.53 (c) (1) limit:

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log_{10}(P)$ dB, here,

$P = 36\text{dBm} = 3.98\text{W}$,

the limit = $36\text{dBm} - [43 + 10\log_{10}(3.98\text{W})]$ dB = -13dBm

For 2x2 MIMO, ANT1 port was measured, and the limit was showed -13dBm- 10lg(2)= -16dBm to determine the test result conveniently.

FCC part 27.53 (c) (3) limit:

On all frequencies between 763–775 MHz and 793–805 MHz, by a factor not less than $76 + 10\log(P)$ dB in a 6.25 kHz band segment, for base and fixed stations.

The Limit = $36\text{dBm} - [76 + 10\log_{10}(3.98\text{W})]$ dB = -46dBm,

For 2x2 MIMO, ANT1 port was measured, and the limit was showed -46dBm- 10lg(2)= -49dBm to determine the test result conveniently.

Part 27.53(g) limit:

For operations in the 600 MHz band and the 698–746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least $43 + 10\log(P)$ dB.

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) in watts by at least $43 + 10\log_{10}(P)$ dB, here,

$P = 36\text{dBm} = 3.98\text{W}$,

the limit = $36\text{dBm} - [43 + 10\log_{10}(3.98\text{W})]$ dB = -13dBm

For 2x2 MIMO, ANT1 port was measured, and the limit was showed -13dBm- 10lg(2)= -16dBm to determine the test result conveniently.

The spurious emissions 9kHz to 30MHz were very low and not displayed in this report. All modes (LCH/MCH/HCH, with GSM signal/ with 4.1MHz AWGN signal/ with 100MHz AWGN signal) had been tested, only show the worst-case in this report.



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6 Frequency Stability

Frequency stability vs voltage							
Test path	Test Freq. (MHz)	Test Signal	Temperature	Voltage	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	742.5	4.1MHz AWGN	TN	VL	14	0.0189	PASS
			TN	VH	15	0.0202	PASS
		100MHz AWGN	TN	VL	23	0.0310	PASS
			TN	VH	11	0.0148	PASS
		GSM	TN	VL	18	0.0242	PASS
			TN	VH	25	0.0337	PASS



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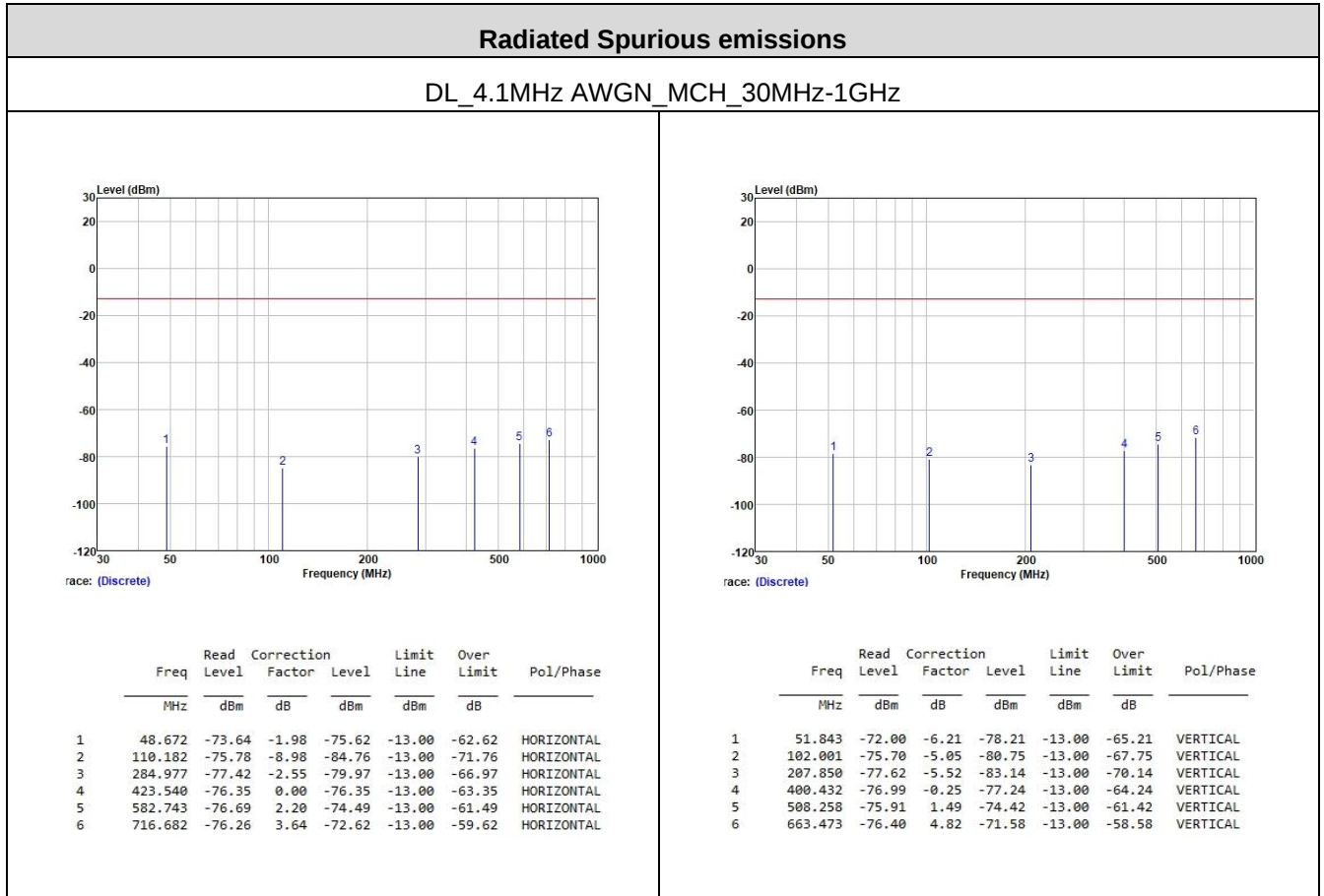
Frequency stability vs temperature							
Test Path	Test Freq. (MHz)	Test Signal	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	742.5	4.1MHz AWGN	VN	+50	18	0.0242	PASS
			VN	+40	12	0.0162	PASS
			VN	+30	9	0.0121	PASS
			VN	+20	17	0.0229	PASS
			VN	+10	21	0.0283	PASS
			VN	0	15	0.0202	PASS
			VN	-10	21	0.0283	PASS
			VN	-20	21	0.0283	PASS
			VN	-30	15	0.0202	PASS
	742.5	100MHz AWGN	VN	+50	14	0.0189	PASS
			VN	+40	20	0.0269	PASS
			VN	+30	25	0.0337	PASS
			VN	+20	24	0.0323	PASS
			VN	+10	11	0.0148	PASS
			VN	0	16	0.0215	PASS
			VN	-10	21	0.0283	PASS
			VN	-20	25	0.0337	PASS
			VN	-30	15	0.0202	PASS
	742.5	GSM	VN	+50	11	0.0148	PASS
			VN	+40	20	0.0269	PASS
			VN	+30	23	0.0310	PASS
			VN	+20	16	0.0215	PASS
			VN	+10	10	0.0135	PASS
			VN	0	17	0.0229	PASS
			VN	-10	18	0.0242	PASS
			VN	-20	16	0.0215	PASS
			VN	-30	19	0.0256	PASS



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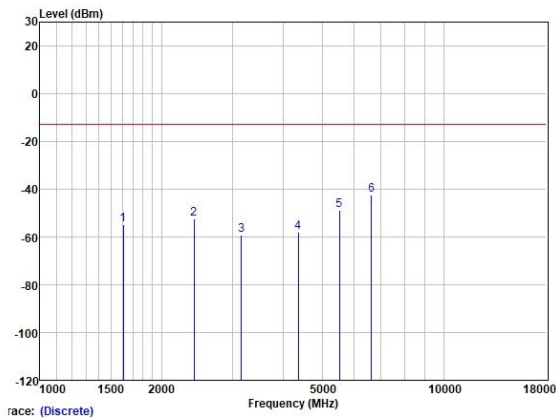
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7 Radiated Spurious emissions

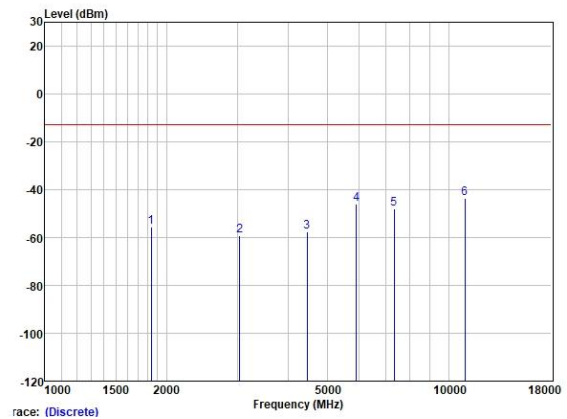


Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_above 1GHz



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1611.091	-60.07	5.32	-54.75	-13.00	-41.75	HORIZONTAL
2	2407.703	-61.87	9.40	-52.47	-13.00	-39.47	HORIZONTAL
3	3159.355	-61.45	2.27	-59.18	-13.00	-46.18	HORIZONTAL
4	4367.058	-62.55	4.42	-58.13	-13.00	-45.13	HORIZONTAL
5	5519.072	-63.31	14.34	-48.97	-13.00	-35.97	HORIZONTAL
6	6621.375	-62.67	20.13	-42.54	-13.00	-29.54	HORIZONTAL



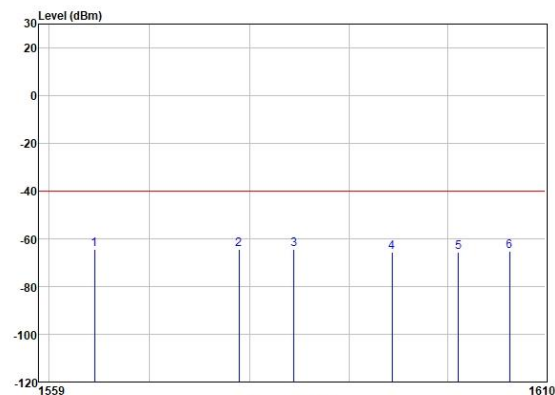
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1834.878	-61.83	6.17	-55.66	-13.00	-42.66	VERTICAL
2	3034.063	-62.15	2.89	-59.26	-13.00	-46.26	VERTICAL
3	4456.315	-63.00	5.36	-57.64	-13.00	-44.64	VERTICAL
4	5915.516	-62.67	16.61	-46.06	-13.00	-33.06	VERTICAL
5	7326.267	-65.79	17.76	-48.03	-13.00	-35.03	VERTICAL
6	10980.470	-68.51	24.77	-43.74	-13.00	-30.74	VERTICAL



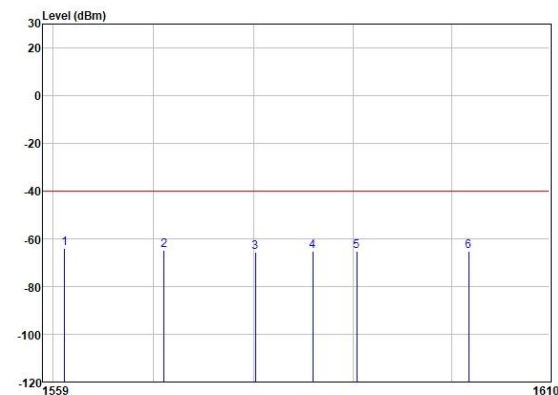
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1559MHz-1610MHz



race: (Discrete)										
	ReadAntenna	Cable	Preamp	Limit	Over					
	Level	Loss	Factor	Line	Limit	Pol/Phase	Remark			
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase	Remark		
	MHz	dBm	dB/m	dB	dBm/m	dB				
1	1564.530	-69.75	5.51	0.00	-64.24	-40.00	-24.24	VERTICAL	Peak	
2	1578.949	-69.59	5.21	0.00	-64.38	-40.00	-24.38	VERTICAL	Peak	
3	1584.448	-69.50	5.13	0.00	-64.37	-40.00	-24.37	VERTICAL	Peak	
4	1594.373	-70.52	4.97	0.00	-65.55	-40.00	-25.55	VERTICAL	Peak	
5	1601.111	-70.46	4.82	0.00	-65.64	-40.00	-25.64	VERTICAL	Peak	
6	1606.325	-70.20	4.85	0.00	-65.35	-40.00	-25.35	VERTICAL	Peak	



race: (Discrete)										
	ReadAntenna	Cable	Preamp	Limit	Over					
	Level	Loss	Factor	Line	Limit	Pol/Phase	Remark			
	Freq	Level	Factor	Level	Line	Limit	Pol/Phase	Remark		
	MHz	dBm	dB/m	dB	dBm/m	dB				
1	1561.159	-68.97	5.04	0.00	-63.93	-40.00	-23.93	HORIZONTAL	Peak	
2	1571.040	-70.07	5.10	0.00	-64.97	-40.00	-24.97	HORIZONTAL	Peak	
3	1580.169	-70.90	5.14	0.00	-65.76	-40.00	-25.76	HORIZONTAL	Peak	
4	1585.979	-70.35	5.19	0.00	-65.16	-40.00	-25.16	HORIZONTAL	Peak	
5	1590.375	-70.21	5.20	0.00	-65.01	-40.00	-25.01	HORIZONTAL	Peak	
6	1601.729	-70.57	5.24	0.00	-65.33	-40.00	-25.33	HORIZONTAL	Peak	

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 in this report.

--End of Appendix--

