

Appendix -

Test Data and Result for report

GZCR230600056902

(For WCS Band DL)



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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: 1. * The band supports maximum channel BW is 10MHz @ NR, so the output signal OBW was less than the input when 100MHz AWGN was as stimulus signal. 2. 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.				

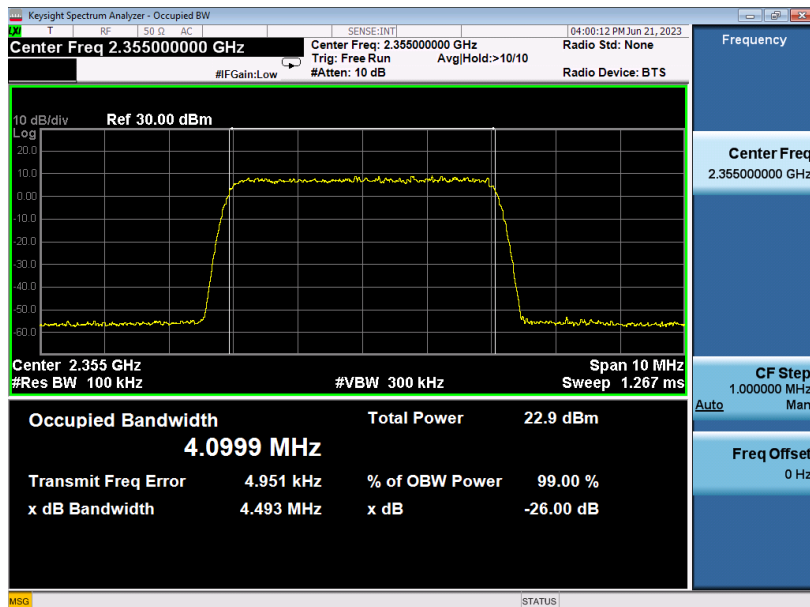


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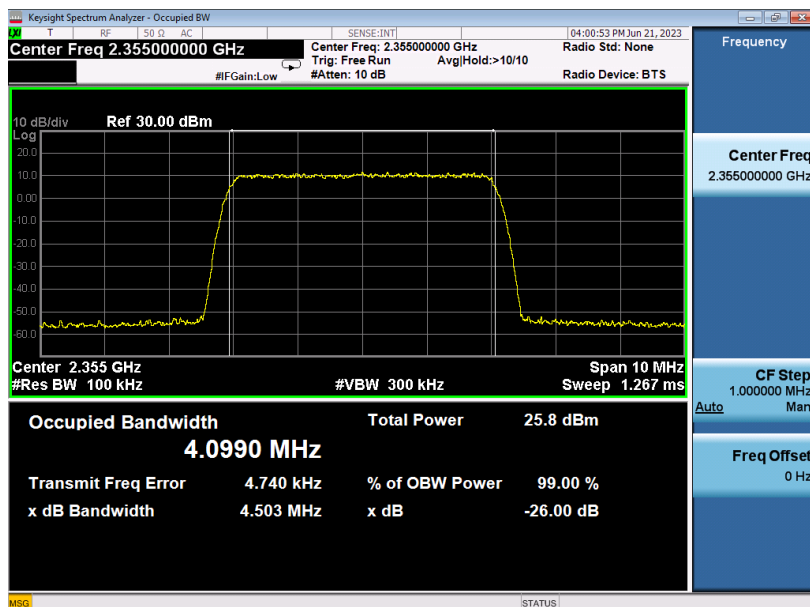
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99% OBW

DL_4.1MHz AWGN_MCH_Input_Pre-AGC



DL_4.1MHz AWGN_MCH_Input_3dB above AGC

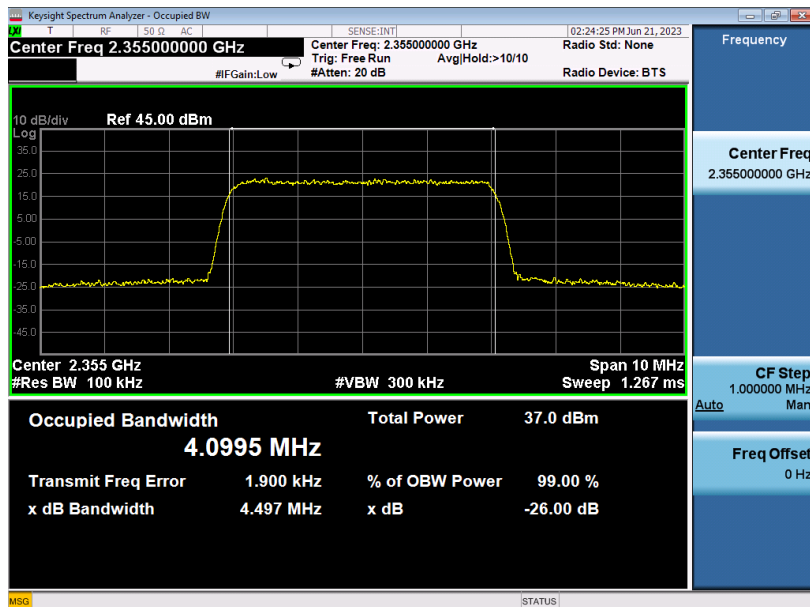


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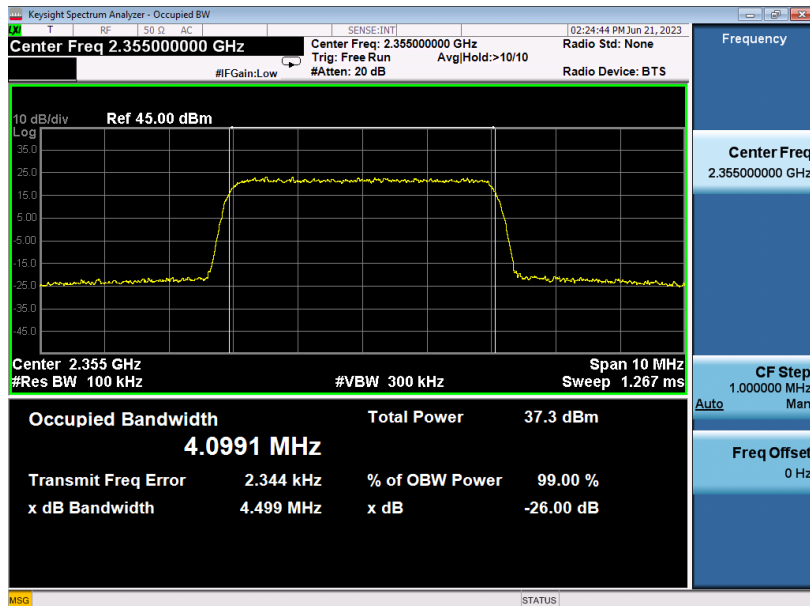
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99% OBW

DL_4.1MHz AWGN_MCH_Output_Pre-AGC



DL_4.1MHz AWGN_MCH_Output_3dB above AGC

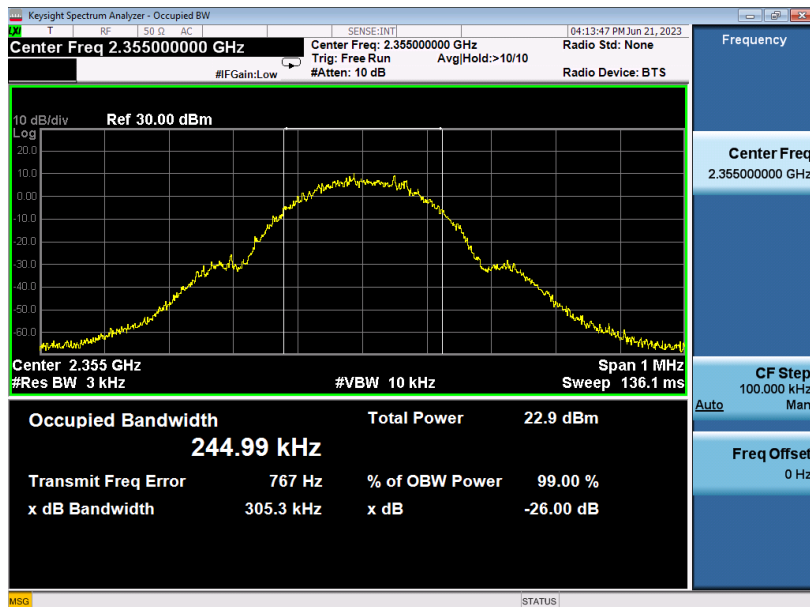


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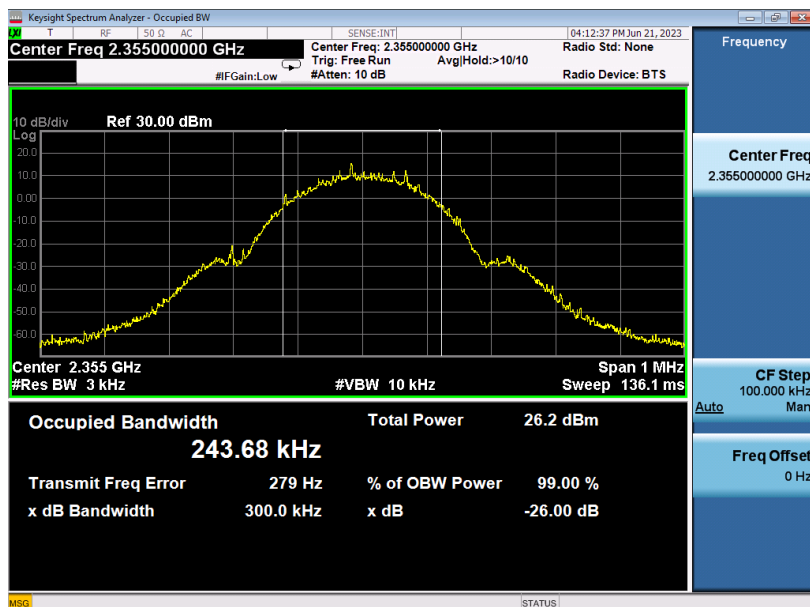
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99% OBW

DL_GSM_MCH_Input_Pre-AGC



DL_GSM_MCH_Input_3dB above AGC

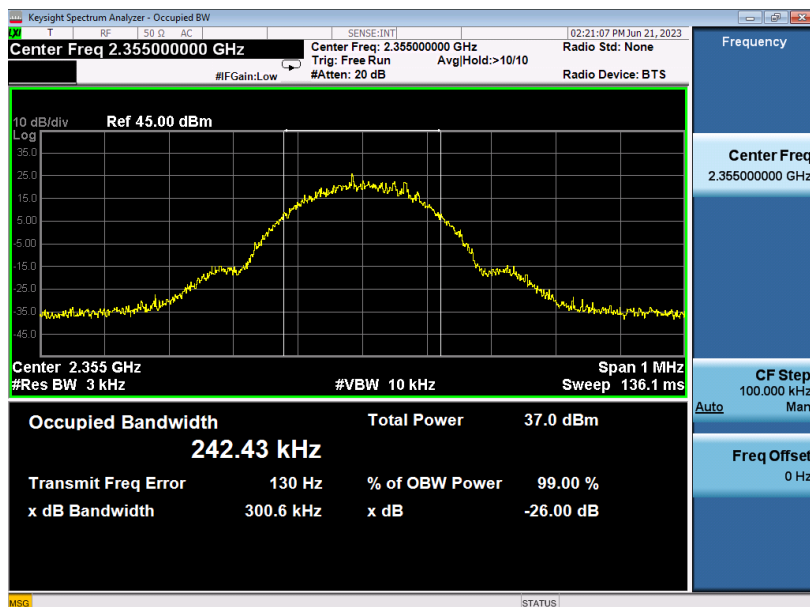


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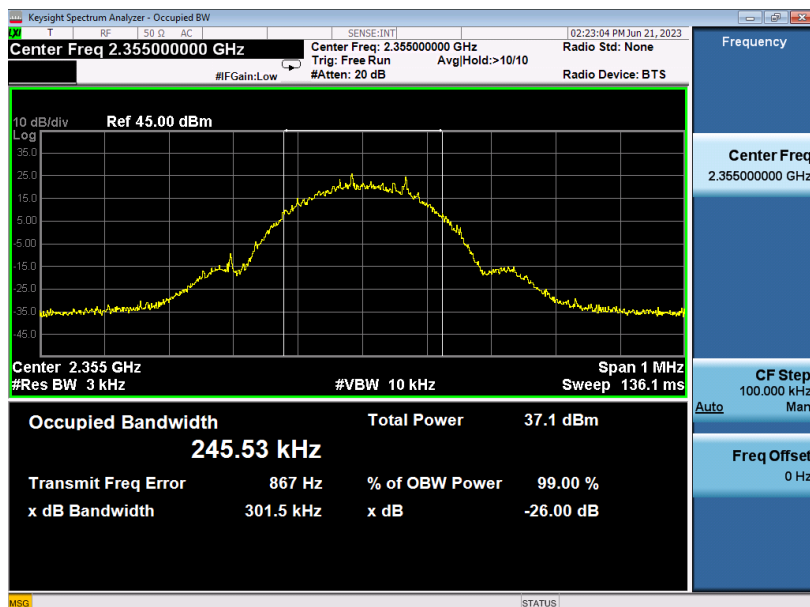
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99% OBW

DL_GSM_MCH_Output_Pre-AGC



DL_GSM_MCH_Output_3dB above AGC

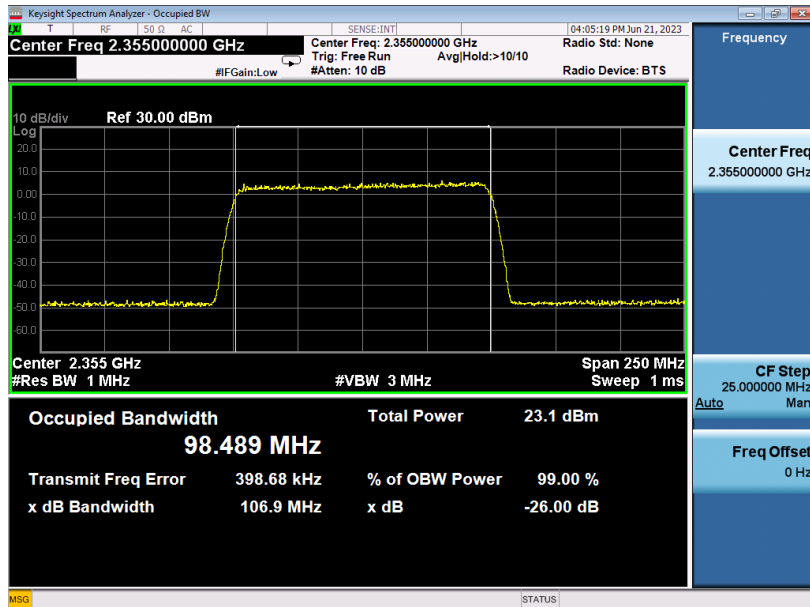


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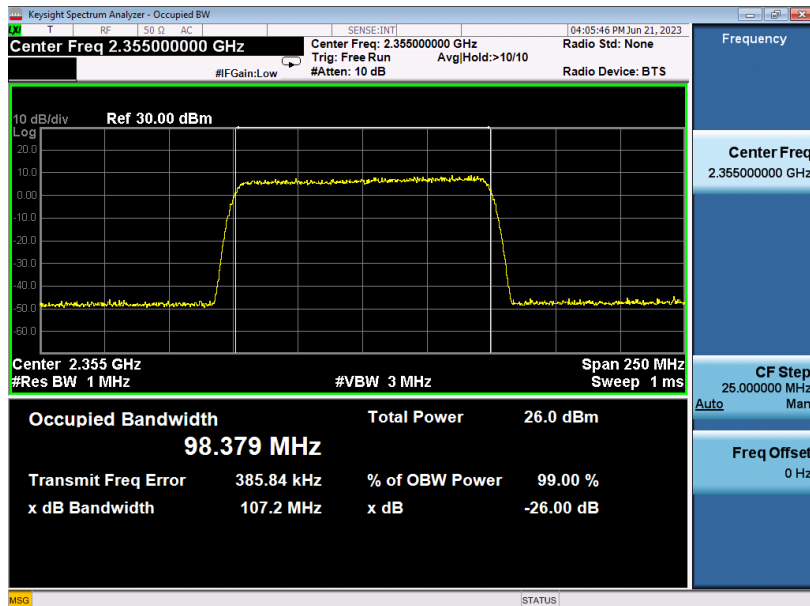
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99% OBW

DL_100MHz AWGN_MCH_Input_Pre-AGC



DL_100MHz AWGN_MCH_Input_3dB above AGC

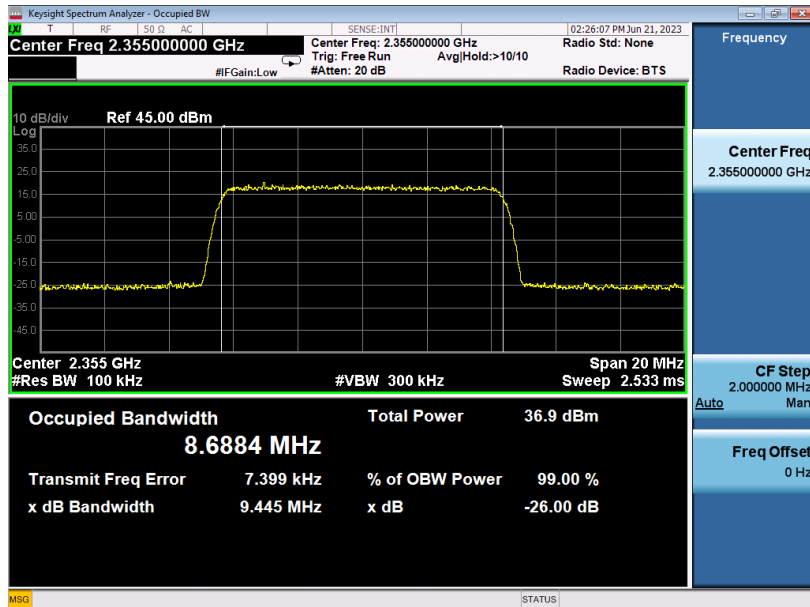


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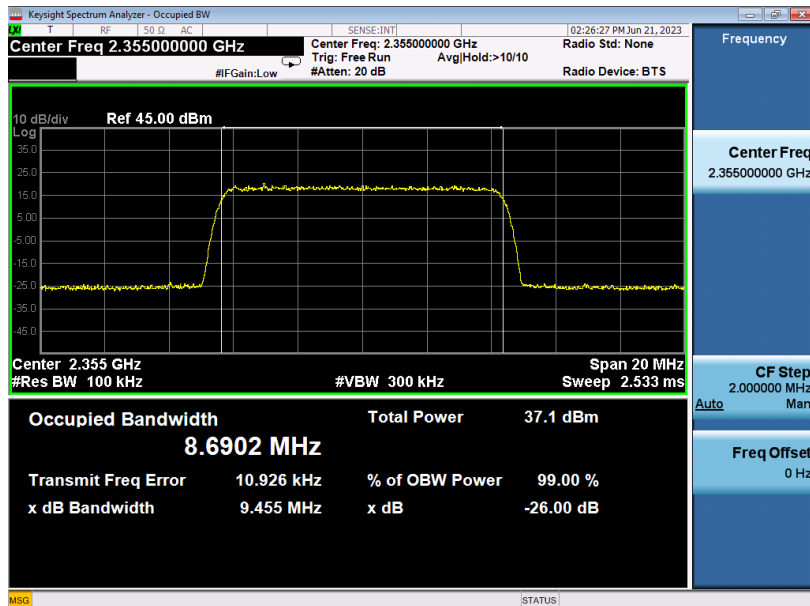
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99% OBW

DL_100MHz AWGN_MCH_Output_Pre-AGC



DL_100MHz AWGN_MCH_Output_3dB above AGC



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3 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 EIRP (W)	Total EIRP (W)	Gain (dB)
DL	2356.3	4.1MHz AWGN	Pre-AGC	23.00	37.28	53.46	213.80	14.28
			3dB above AGC	26.00	37.45	55.60	222.34	/
		100MHz AWGN	Pre-AGC	23.00	36.68	46.56	186.21	13.68
			3dB above AGC	26.00	36.96	49.66	198.61	/
		GSM	Pre-AGC	23.00	37.66	58.35	233.35	14.66
			3dB above AGC	26.00	37.32	53.96	215.78	/
Remark: 1. f0 is from Out-of-band Rejection test in the report. 2. EIRP= output power (dBm)+ antenna gain (dBi), 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 EIRP (W/MHz)	Total EIRP (W/MHz)	Verdict
DL	2356.3	4.1MHz AWGN	Pre-AGC	31.01	12.62	50.47	PASS
			3dB above AGC	31.27	13.40	53.59	PASS
		100MHz AWGN	Pre-AGC	28.72	7.45	29.79	PASS
			3dB above AGC	28.57	7.20	28.78	PASS
		GSM	Pre-AGC	37.66	58.35	233.35	PASS
			3dB above AGC	37.32	53.96	215.78	PASS
Remark: 1. f0 is from Out-of-band Rejection test in the report. 2. EIRP= output power (dBm)+ antenna gain (dBi), 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 EIRP of 400W/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.							

Mean output power							
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Output Power (dBm/5MHz)	SISO EIRP (W/5MHz)	Total EIRP (W/5MHz)	Verdict
DL	2356.3	4.1MHz AWGN	Pre-AGC	37.28	53.46	213.80	PASS
			3dB above AGC	37.45	55.60	222.34	PASS
		100MHz AWGN	Pre-AGC	35.44	35.00	139.96	PASS
			3dB above AGC	35.21	33.19	132.74	PASS
		GSM	Pre-AGC	37.66	58.35	233.35	PASS
			3dB above AGC	37.32	53.96	215.78	PASS
Remark: 1. f0 is from Out-of-band Rejection test in the report. 2. EIRP= output power (dBm)+ antenna gain (dBi), 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 EIRP of 2000W/5MHz. 4. The conducted test performed at ANT 1 port only due to the two MIMO ports with identical design(Hardware & software) and radio output.							

Peak-to-average ratio (PAR)						
Test path	Test freq. f0 (MHz)	Test Signal	Signal level	PAR (dB)	Limit (dB)	Verdict
DL	2356.3	4.1MHz AWGN	Pre-AGC	8.24	≤13	PASS
			3dB above AGC	8.16		PASS
		100MHz AWGN	Pre-AGC	8.16		PASS
			3dB above AGC	8.05		PASS
Remark: The GSM signal is narrow band signal with extremity low PAR values (the worst case is lower than 0.3dB), so only the test plots for 4.1MHz and 100MHz AWGN (pre-AGC) were record in the report for demonstrate PAR compliance.						

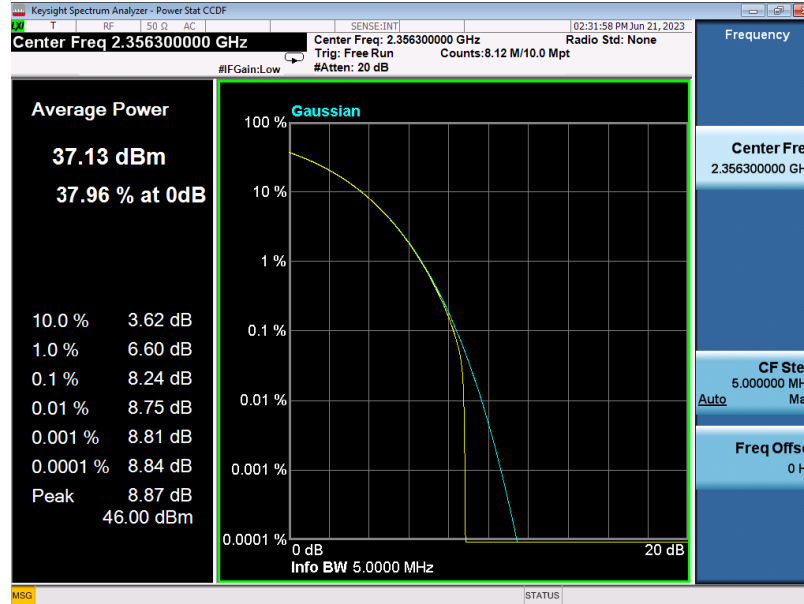


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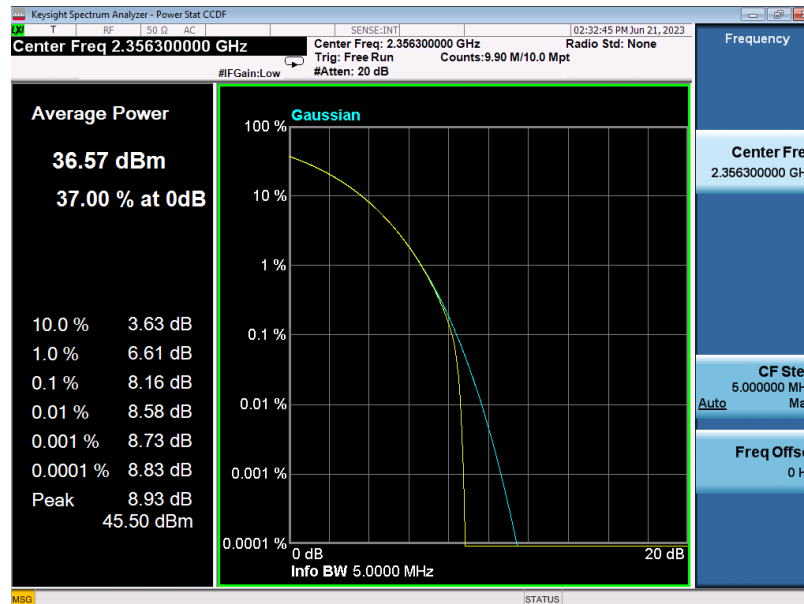
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Peak-to-average ratio (PAR)

DL_4.1MHz AWGN_Pre-AGC



DL_100MHz AWGN_Pre-AGC



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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	5MHz AWGN	One signal input	Pre-AGC	-34.76	≤-16	PASS
				3dB above AGC	-35.35		PASS
			Two signals input	Pre-AGC	-34.73		PASS
				3dB above AGC	-35.44		PASS
	HCH		One signal input	Pre-AGC	-31.50		PASS
				3dB above AGC	-33.01		PASS
			Two signals input	Pre-AGC	-32.16		PASS
				3dB above AGC	-32.31		PASS
DL	LCH	100MHz AWGN	One signal input	Pre-AGC	-23.31	≤-16	PASS
				3dB above AGC	-23.55		PASS
			Two signals input	Pre-AGC	-22.89		PASS
				3dB above AGC	-23.30		PASS
	HCH		One signal input	Pre-AGC	-19.52		PASS
				3dB above AGC	-19.82		PASS
			Two signals input	Pre-AGC	-20.79		PASS
				3dB above AGC	-20.09		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,

$$P = 37\text{dBm} = 5.02\text{W}$$

$$\text{the limit} = 37\text{dBm} - [43 + 10\log_{10}(5.02\text{W})] \text{ dB} = -13\text{dBm}$$

2. For 2x2 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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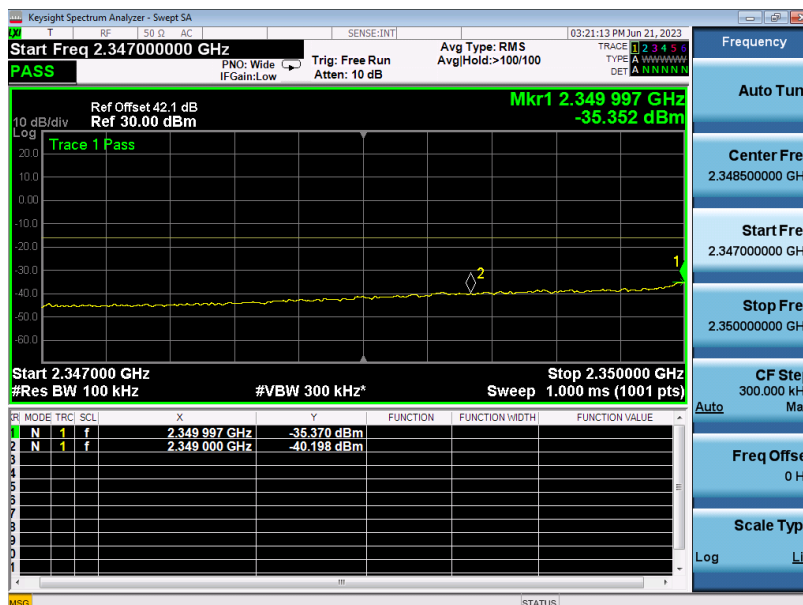
Out-of-band/out-of-block(including intermodulation) emissions							
Test Path	Test Channel	Test Signal	Stimulus Condition	Signal Level	Worst conducted test level (dBm)	Limit (dBm)	Verdict
DL	LCH	GSM	One signal input	Pre-AGC	-26.50	≤-16	PASS
				3dB above AGC	-26.13		PASS
			Two signals input	Pre-AGC	-26.91		PASS
				3dB above AGC	-26.61		PASS
	HCH		One signal input	Pre-AGC	-24.06		PASS
				3dB above AGC	-23.68		PASS
			Two signals input	Pre-AGC	-26.42		PASS
				3dB above AGC	-25.62		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 + 10log10 (P) dB, here, P = 37dBm = 5.02W the limit = 37dBm – [43 + 10 log10 (5.02W)] dB = -13dBm 2. For 2x2 MIMO, ANT1 port was measured and the limit was showed -13dBm- 10lg(2)= -16dBm to determine the test result conveniently.							

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

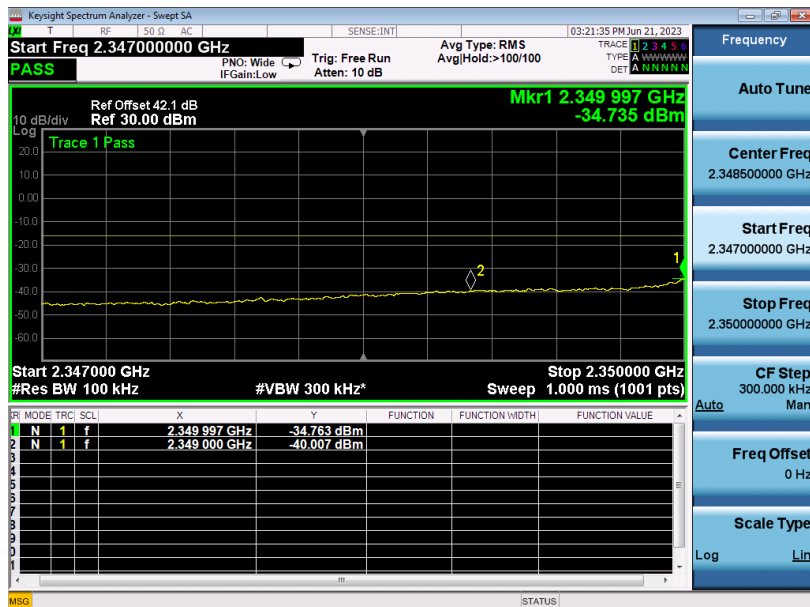


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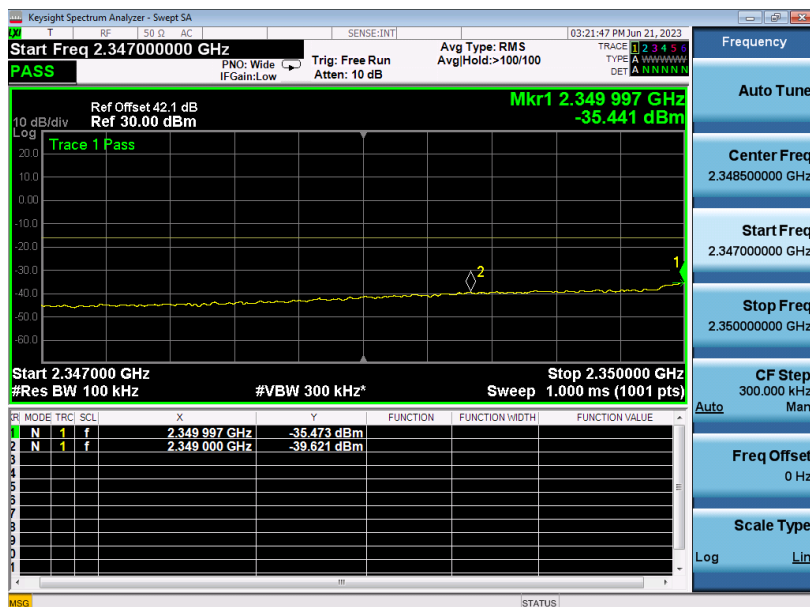
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Out-of-band/out-of-block emissions

DL_4.1MHz AWGN_LCH_two adjacent test signals_Pre-AGC



DL_4.1MHz AWGN_LCH_two adjacent test signals_3dB above AGC

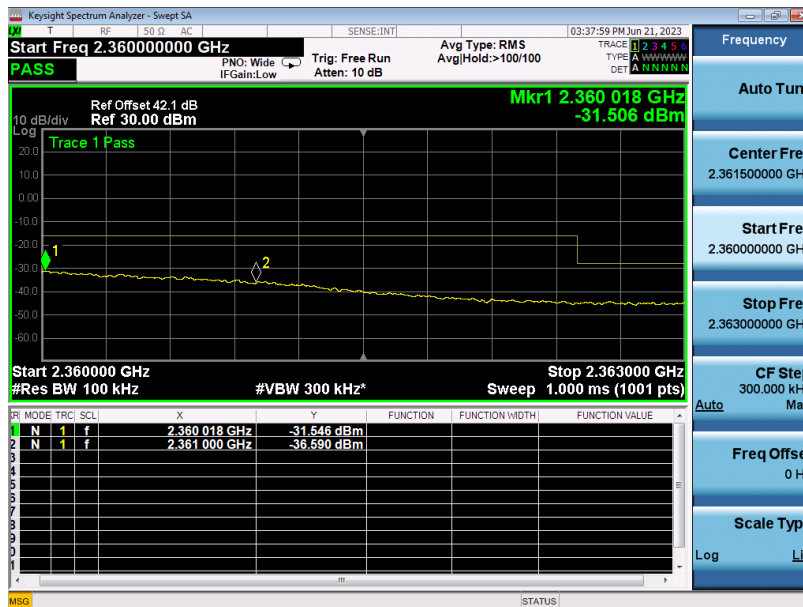


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Out-of-band/out-of-block emissions

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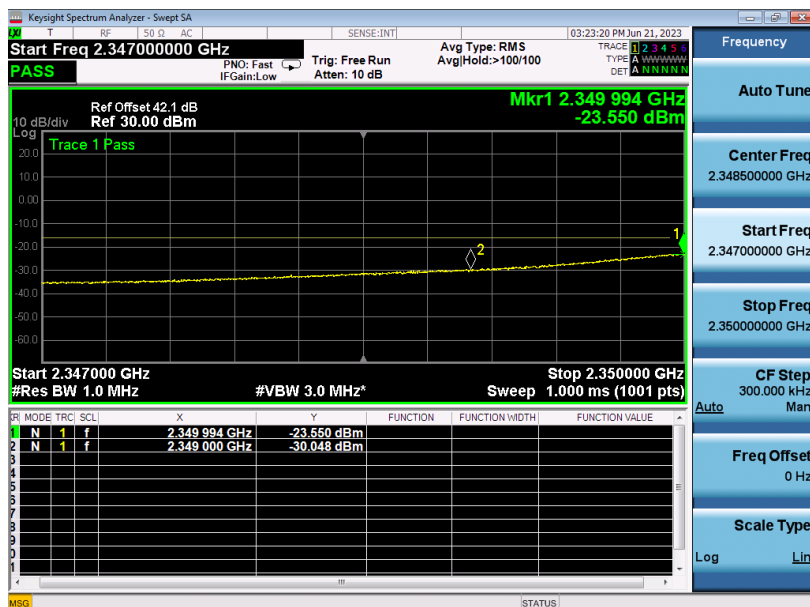
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Out-of-band/out-of-block emissions

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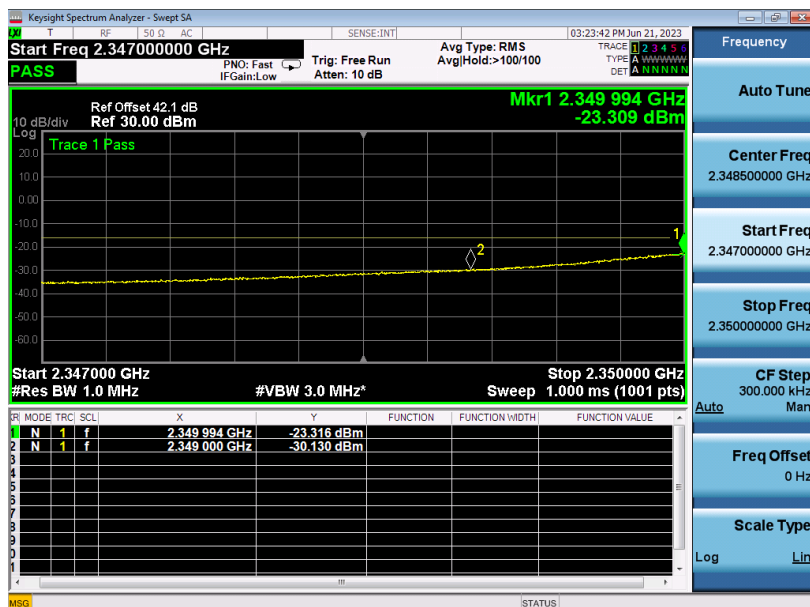
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Out-of-band/out-of-block emissions

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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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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Guangzhou Branch EMC Laboratory

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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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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

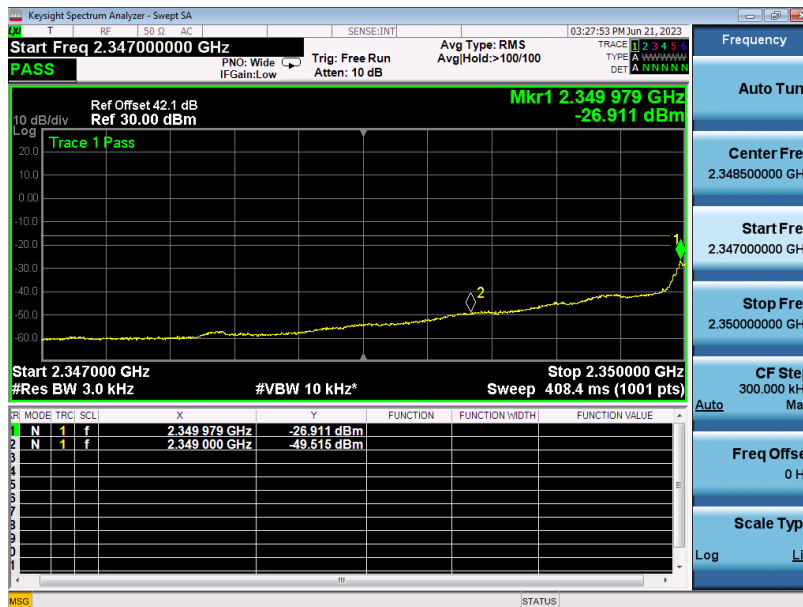


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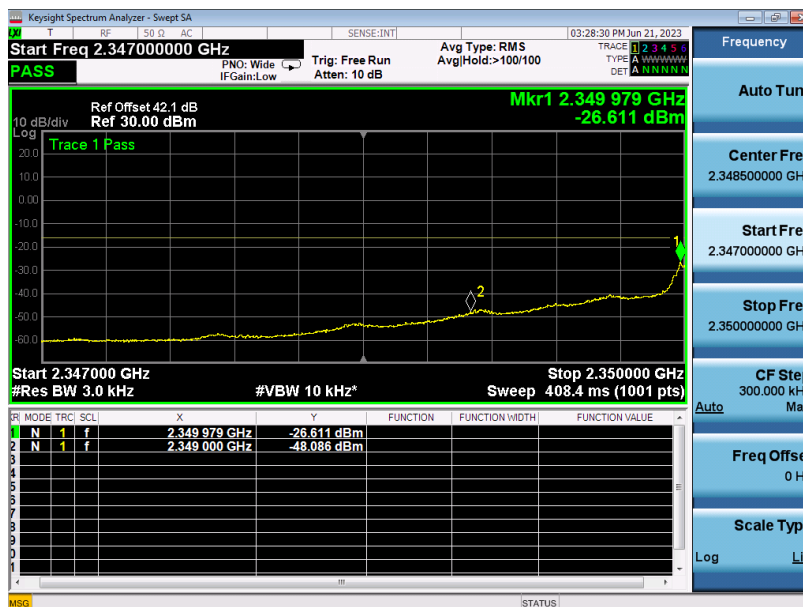
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Out-of-band/out-of-block emissions

DL_GSM_LCH_two adjacent test signals_Pre-AGC



DL_GSM_LCH_two adjacent test signals_3dB above AGC

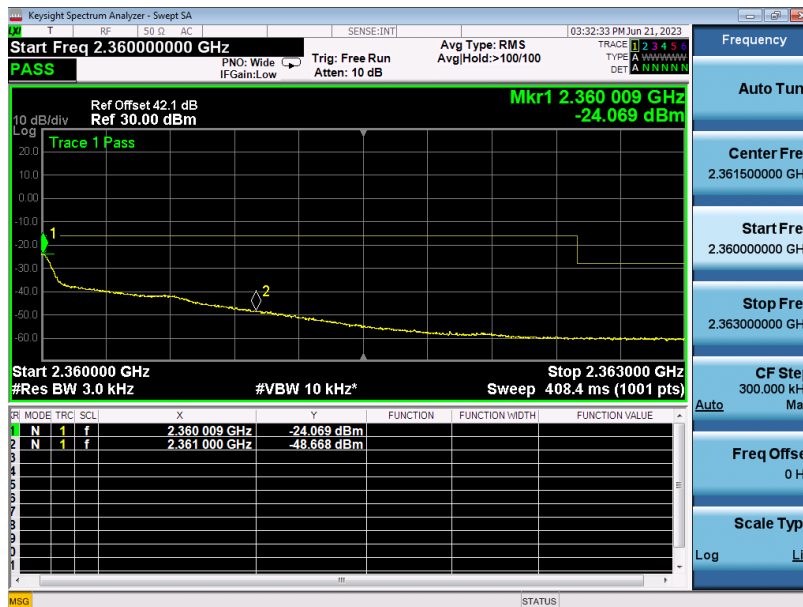


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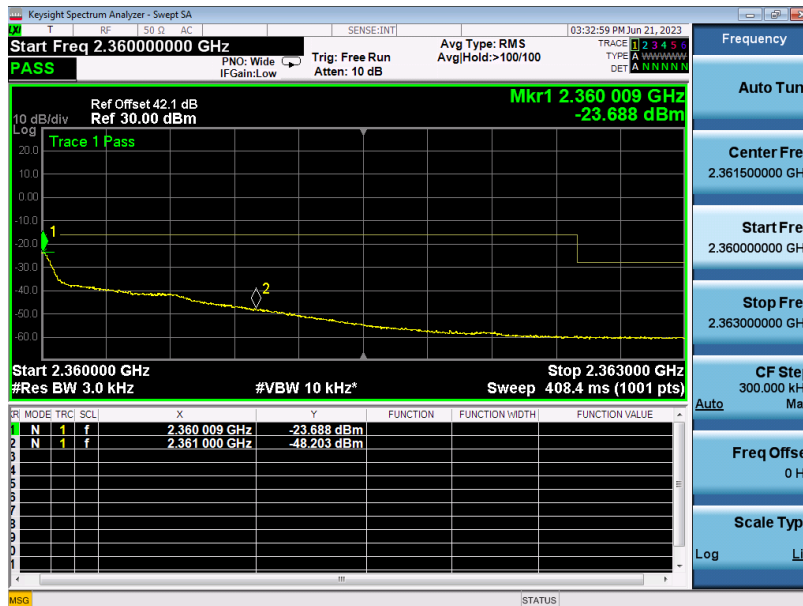
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Out-of-band/out-of-block emissions

DL_GSM_HCH_a single test signal_Pre-AGC



DL_GSM_HCH_a single test signal_3dB above AGC



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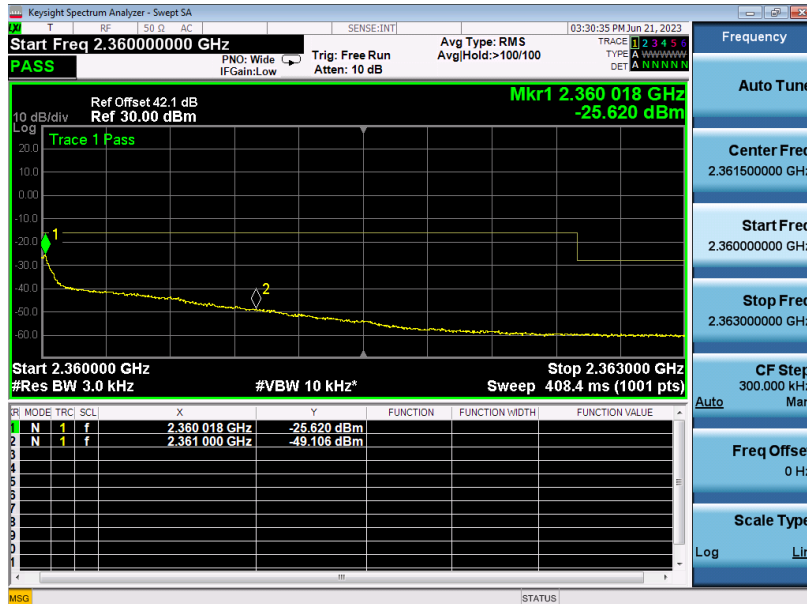
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Out-of-band/out-of-block emissions

DL_GSM_HCH_two adjacent test signals_Pre-AGC



DL_GSM_HCH_two adjacent test signals_3dB above AGC



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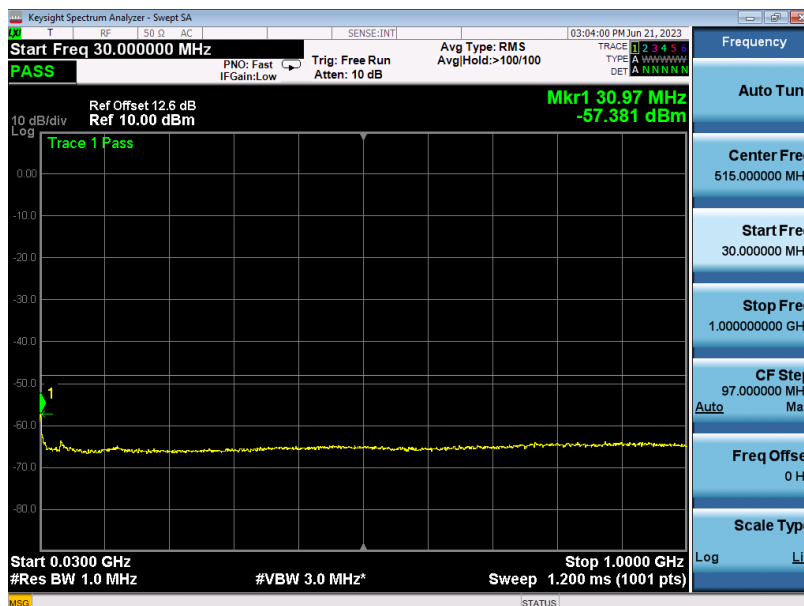
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5 Conducted Spurious emissions

Conducted spurious emissions

DL_100MHz AWGN_LCH_Pre-AGC



DL_100MHz AWGN_LCH_Pre-AGC

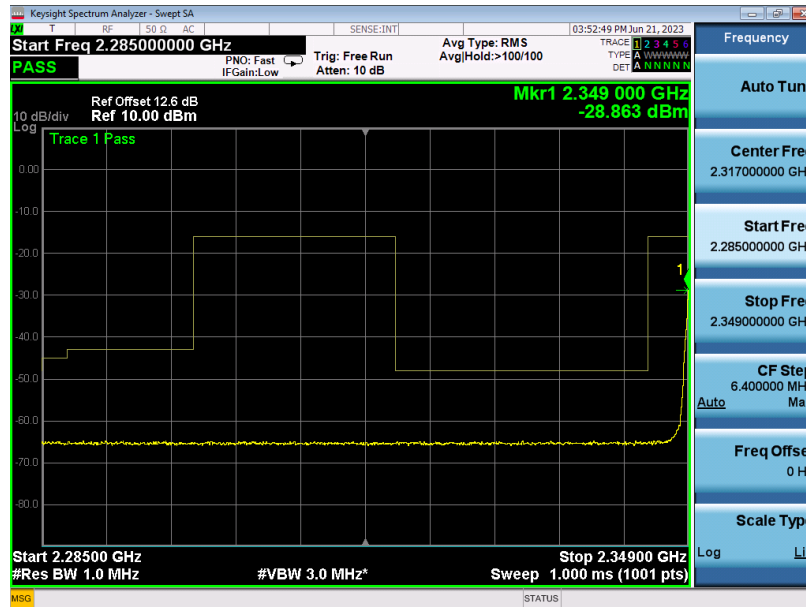


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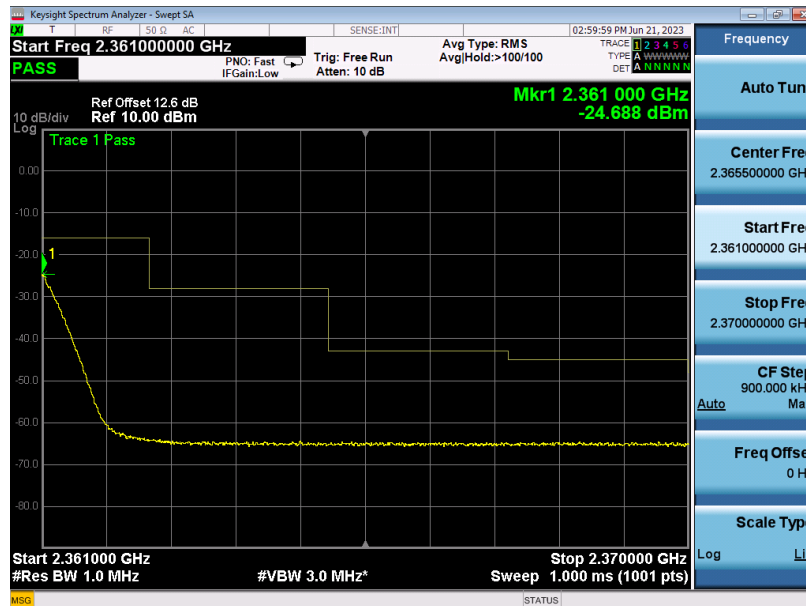
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Conducted spurious emissions

DL_100MHz AWGN_LCH_Pre-AGC



DL_100MHz AWGN_HCH_Pre-AGC

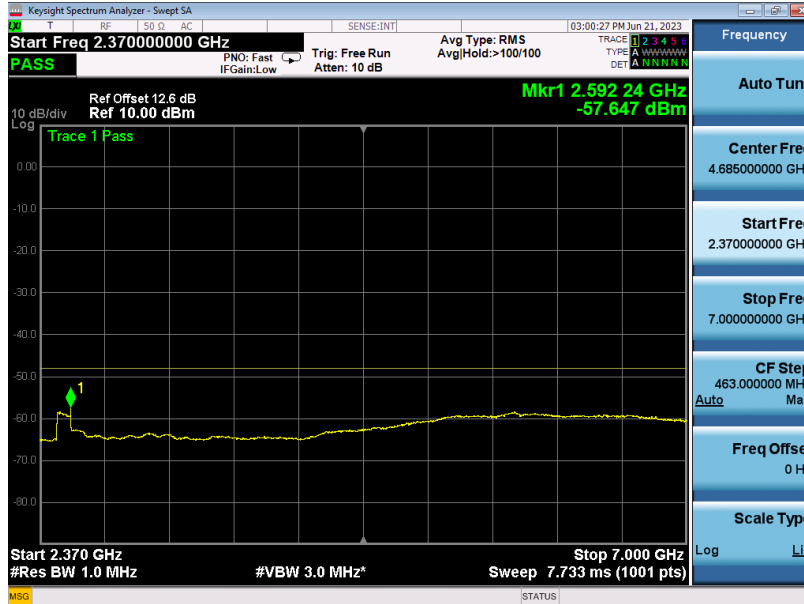


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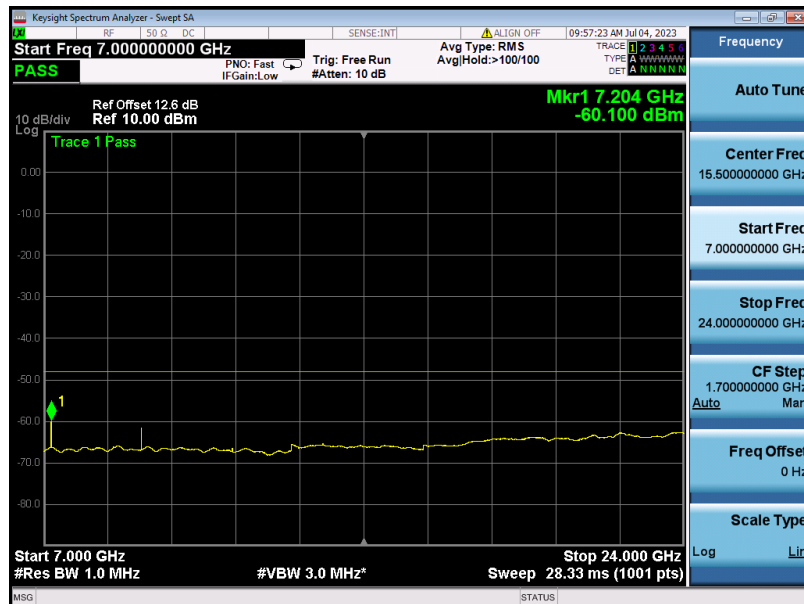
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Conducted spurious emissions

DL_100MHz AWGN_HCH_Pre-AGC



DL_100MHz AWGN_HCH_Pre-AGC



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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,
 $P = 37\text{dBm} = 5.02\text{W}$,
the limit = $37\text{dBm} - [43 + 10 \log_{10}(5.02\text{W})]$ dB = -13dBm
2. For 2x2 MIMO, ANT1 port was measured and the limit was showed -13dBm- $10\lg(2) = -16\text{dBm}$ to determine the test result conveniently.
3. The spurious emissions 9kHz to 30MHz were very low and not displayed in this report.
4. 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	2355	4.1MHz AWGN	TN	VL	9	0.0038	PASS
			TN	VH	16	0.0068	PASS
		100MHz AWGN	TN	VL	10	0.0042	PASS
			TN	VH	15	0.0064	PASS
		GSM	TN	VL	11	0.0047	PASS
			TN	VH	12	0.0051	PASS



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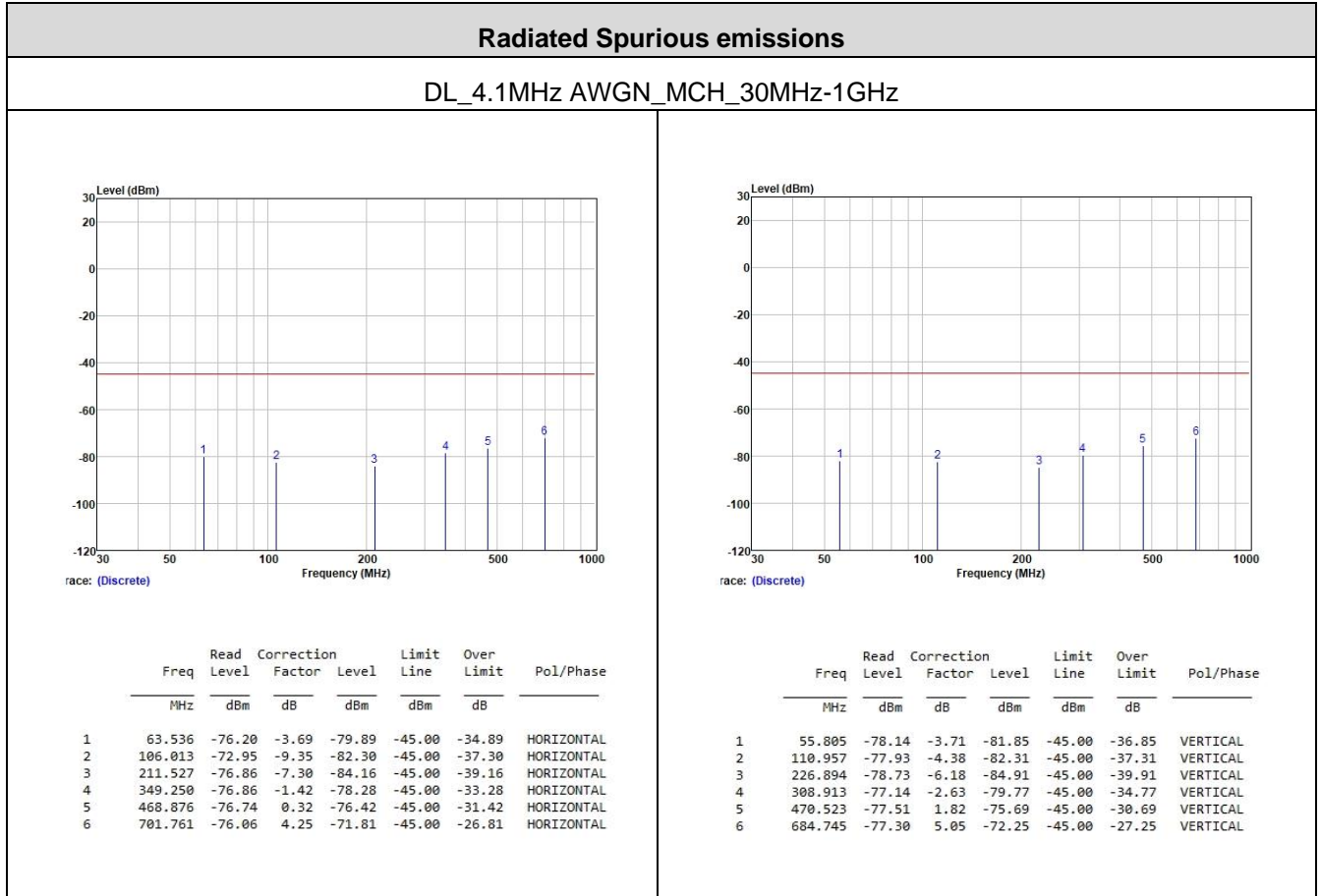
Frequency stability vs temperature							
Test Path	Test Freq. (MHz)	Test Signal	Voltage	Temperature (°C)	Freq. error (Hz)	Tolerance (ppm)	Verdict
DL	2355	4.1MHz AWGN	VN	+50	19	0.0081	PASS
			VN	+40	18	0.0076	PASS
			VN	+30	19	0.0081	PASS
			VN	+20	16	0.0068	PASS
			VN	+10	18	0.0076	PASS
			VN	0	22	0.0093	PASS
			VN	-10	13	0.0055	PASS
			VN	-20	10	0.0042	PASS
			VN	-30	8	0.0034	PASS
	2355	100MHz AWGN	VN	+50	19	0.0081	PASS
			VN	+40	19	0.0081	PASS
			VN	+30	12	0.0051	PASS
			VN	+20	18	0.0076	PASS
			VN	+10	15	0.0064	PASS
			VN	0	18	0.0076	PASS
			VN	-10	23	0.0098	PASS
			VN	-20	13	0.0055	PASS
			VN	-30	17	0.0072	PASS
	2355	GSM	VN	+50	21	0.0089	PASS
			VN	+40	20	0.0085	PASS
			VN	+30	11	0.0047	PASS
			VN	+20	11	0.0047	PASS
			VN	+10	14	0.0059	PASS
			VN	0	8	0.0034	PASS
			VN	-10	8	0.0034	PASS
			VN	-20	12	0.0051	PASS
			VN	-30	12	0.0051	PASS



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7 Radiated Spurious emissions

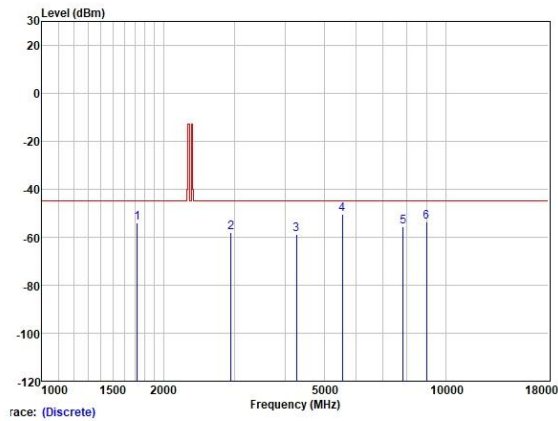


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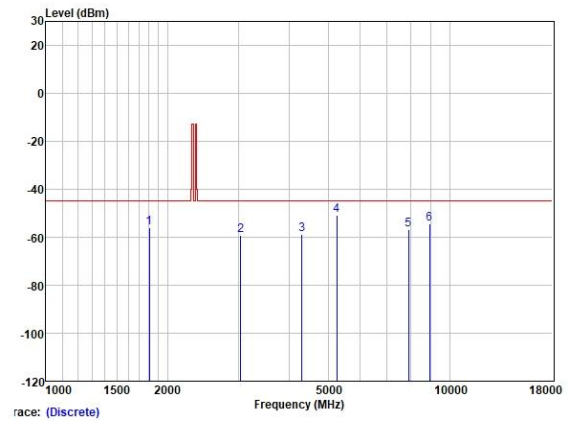
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Radiated Spurious emissions

DL_4.1MHz AWGN_MCH_above 1GHz



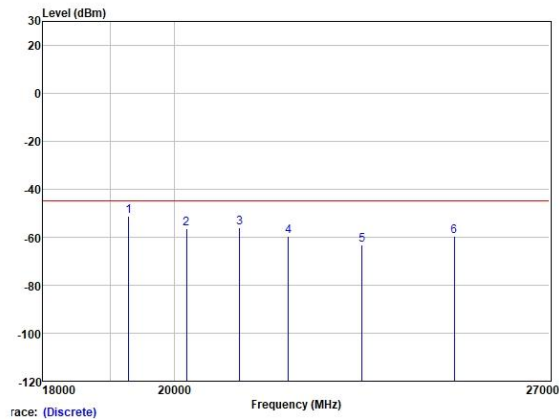
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1721.834	-60.22	6.28	-53.94	-45.00	-8.94	HORIZONTAL
2	2939.115	-61.54	3.47	-58.07	-45.00	-13.07	HORIZONTAL
3	4267.237	-62.94	4.23	-58.71	-45.00	-13.71	HORIZONTAL
4	5551.069	-64.28	13.91	-50.37	-45.00	-5.37	HORIZONTAL
5	7852.524	-69.73	14.03	-55.70	-45.00	-10.70	HORIZONTAL
6	8969.161	-68.81	15.35	-53.46	-45.00	-8.46	HORIZONTAL



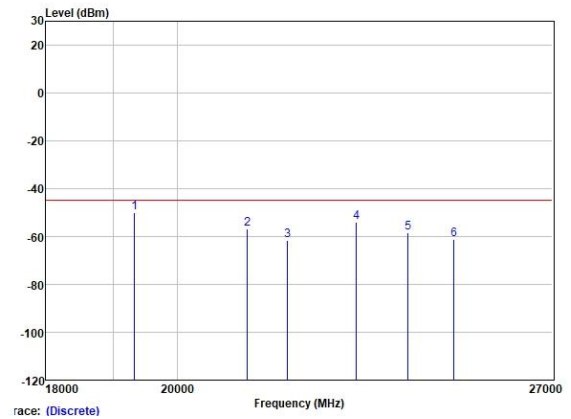
	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1803.332	-61.67	5.81	-55.86	-45.00	-10.86	VERTICAL
2	3034.063	-62.22	2.89	-59.33	-45.00	-14.33	VERTICAL
3	4304.400	-63.18	4.52	-58.66	-45.00	-13.66	VERTICAL
4	5254.440	-63.35	12.70	-50.65	-45.00	-5.65	VERTICAL
5	7920.911	-73.58	16.65	-56.93	-45.00	-11.93	VERTICAL
6	8917.462	-69.87	15.28	-54.59	-45.00	-9.59	VERTICAL

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	19279.520	-89.20	37.98	-51.22	-45.00	-6.22	HORIZONTAL
2	20193.420	-95.09	38.51	-56.58	-45.00	-11.58	HORIZONTAL
3	21066.370	-94.67	38.60	-56.07	-45.00	-11.07	HORIZONTAL
4	21906.960	-98.42	38.75	-59.67	-45.00	-14.67	HORIZONTAL
5	23240.450	-102.48	39.28	-63.20	-45.00	-18.20	HORIZONTAL
6	25012.030	-99.14	39.45	-59.69	-45.00	-14.69	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	19325.760	-83.54	33.67	-49.87	-45.00	-4.87	VERTICAL
2	21150.640	-92.19	35.46	-56.73	-45.00	-11.73	VERTICAL
3	21837.110	-97.53	35.75	-61.78	-45.00	-16.78	VERTICAL
4	23074.030	-91.08	36.99	-54.09	-45.00	-9.09	VERTICAL
5	24052.290	-95.58	37.29	-58.29	-45.00	-13.29	VERTICAL
6	24952.190	-98.49	37.44	-61.05	-45.00	-16.05	VERTICAL

Remark:

Pre-test was performed for all modes (LCH/MCH/HCH, with GSM signal/ with 4.1MHz AWGN signals/ with 100MHz AWGN signals). 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.

--End of Appendix--