



**SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch**

EMC-ARF-05 Rev 1.1

Page: 1 of 34

FCC ID: PX8CFNG-MRU

# Appendix -

## Test Data and Result for report

### GZCR241100135110

(For 3.7GHz Service Band DL)



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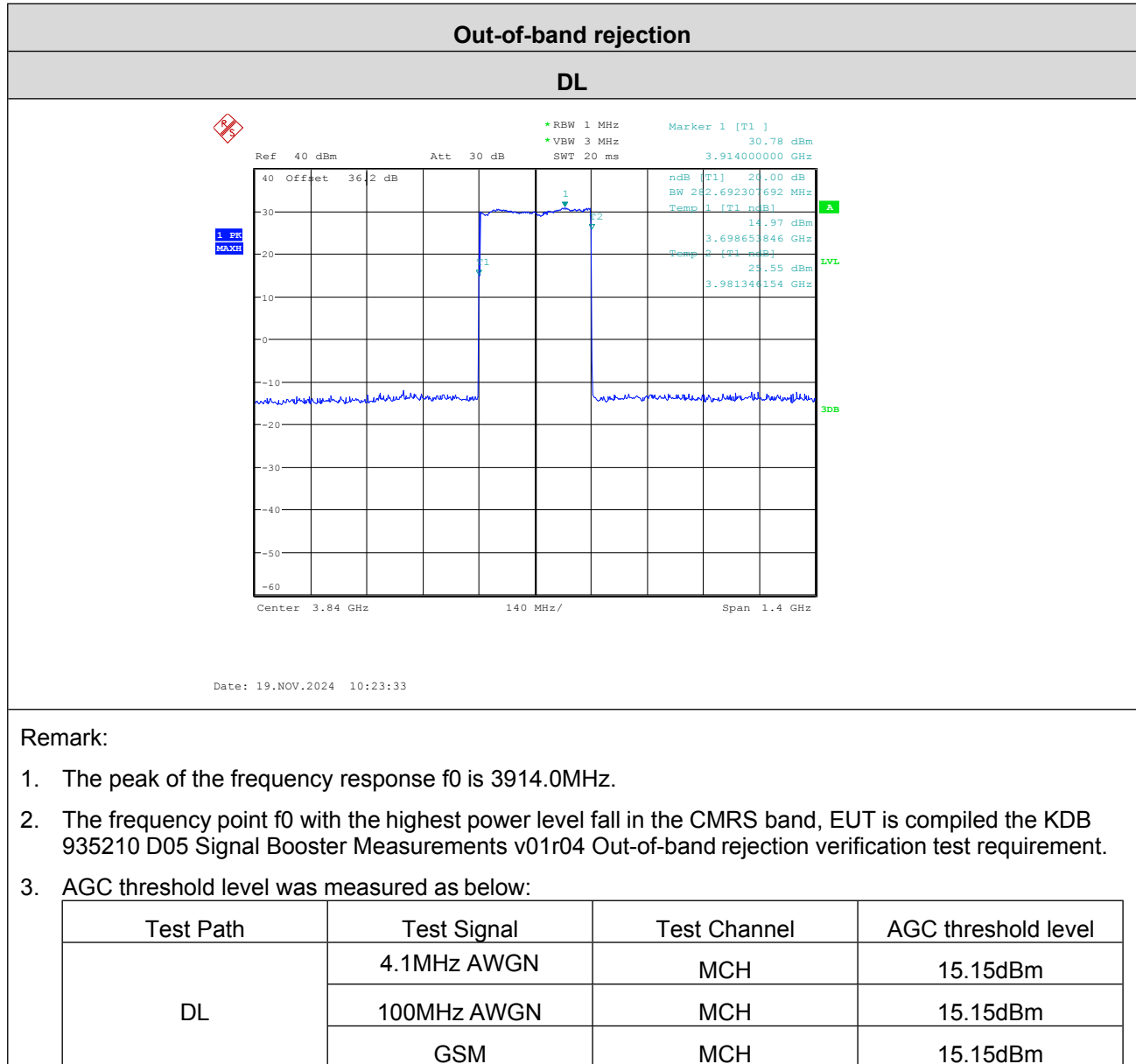
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### 1 Out-of-band rejection



## 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:  
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.

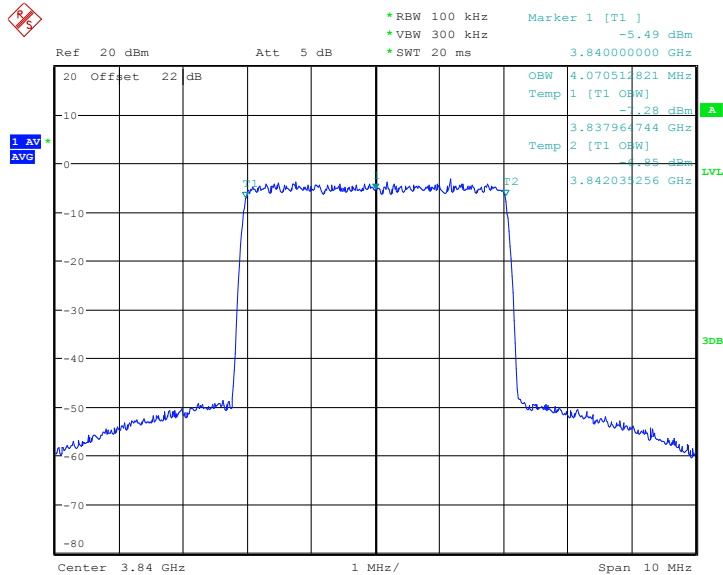


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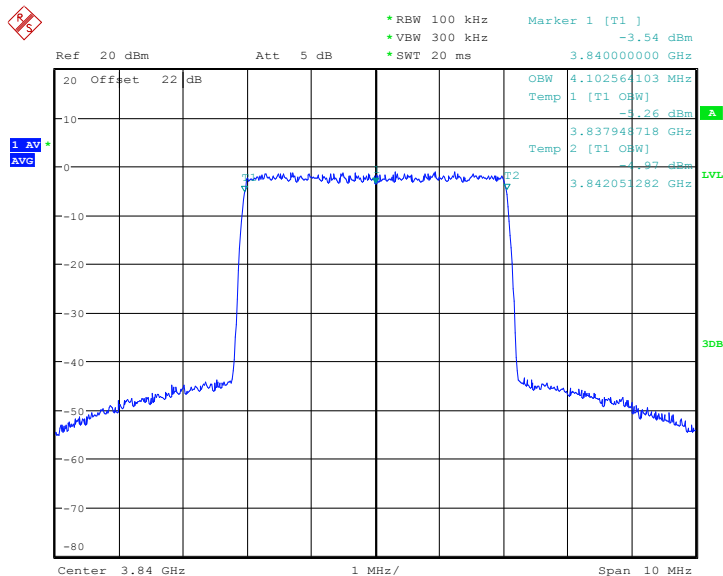
### 99% OBW

#### DL\_4.1MHz AWGN\_MCH\_Input\_Pre-AGC



Date: 19.NOV.2024 11:52:45

#### DL\_4.1MHz AWGN\_MCH\_Input\_3dB above AGC



Date: 19.NOV.2024 11:52:54



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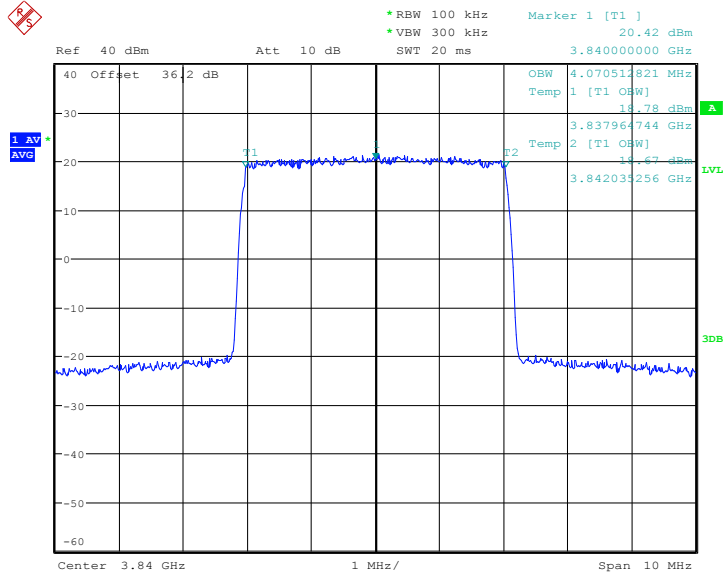
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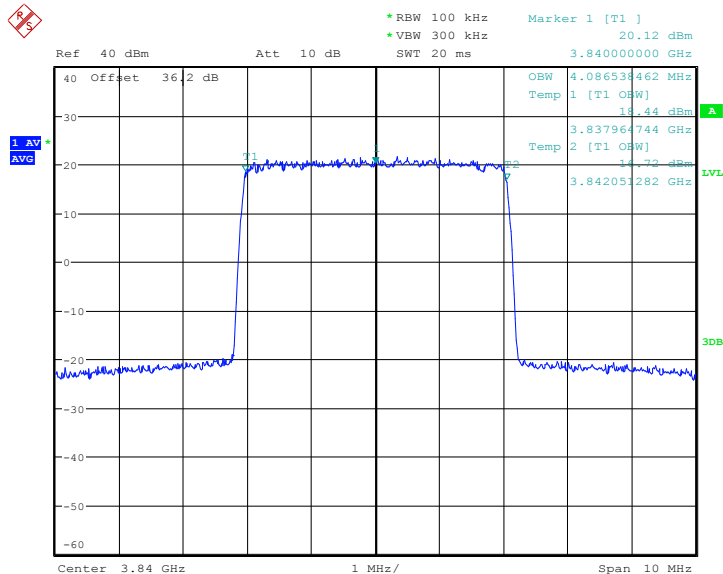
### 99% OBW

#### DL\_4.1MHz AWGN\_MCH\_Output\_Pre-AGC



Date: 19.NOV.2024 10:26:06

#### DL\_4.1MHz AWGN\_MCH\_Output\_3dB above AGC



Date: 19.NOV.2024 10:26:11



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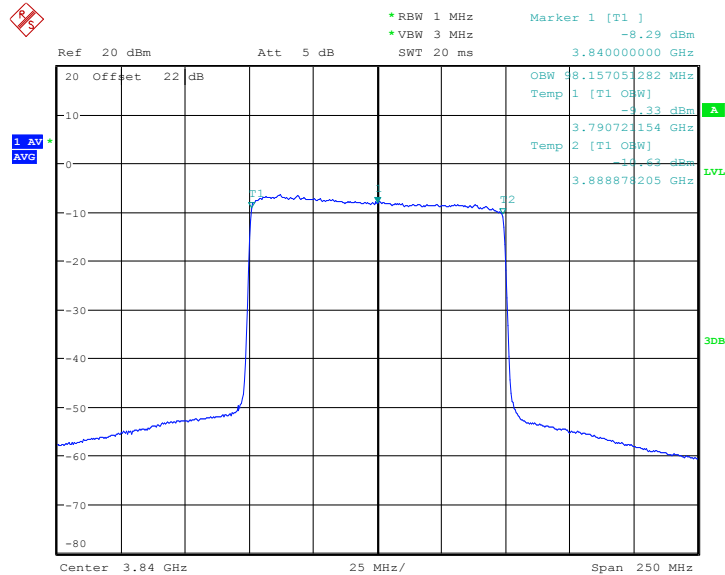
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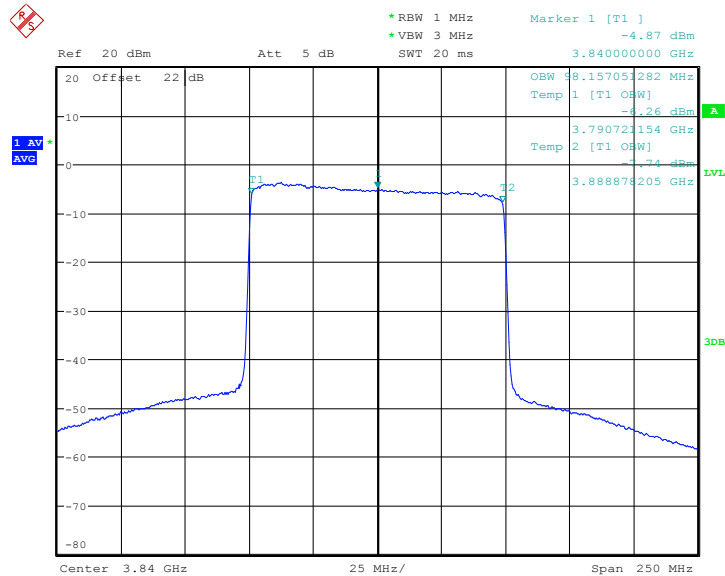
### 99% OBW

#### DL\_100MHz AWGN\_MCH\_Input\_Pre-AGC



Date: 19.NOV.2024 11:54:06

#### DL\_100MHz AWGN\_MCH\_Input\_3dB above AGC



Date: 19.NOV.2024 11:54:13



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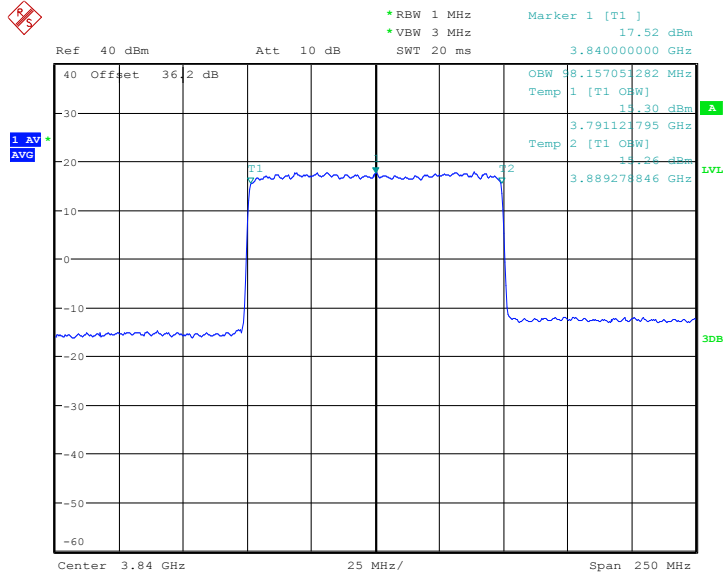
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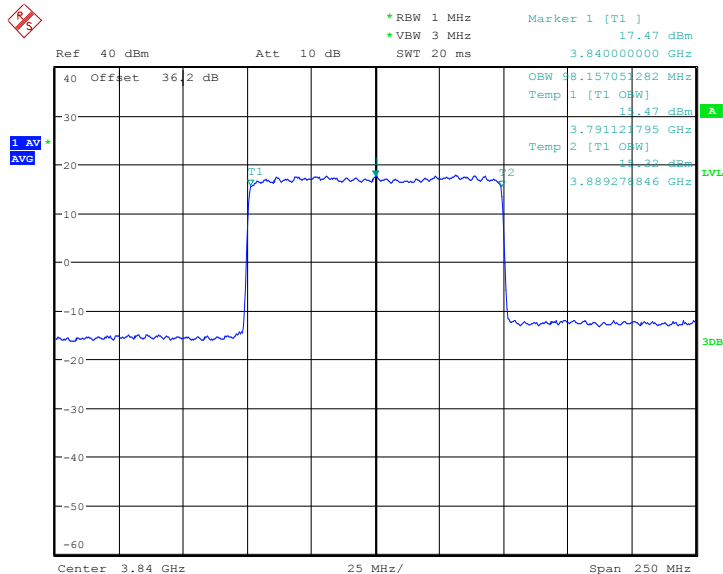
### 99% OBW

#### DL\_100MHz AWGN\_MCH\_Output\_Pre-AGC



Date: 19.NOV.2024 10:25:23

#### DL\_100MHz AWGN\_MCH\_Output\_3dB above AGC



Date: 19.NOV.2024 10:25:29



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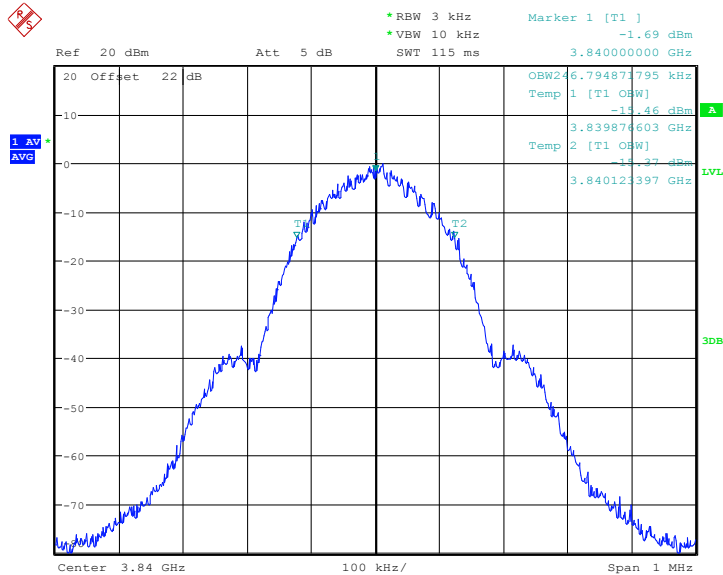
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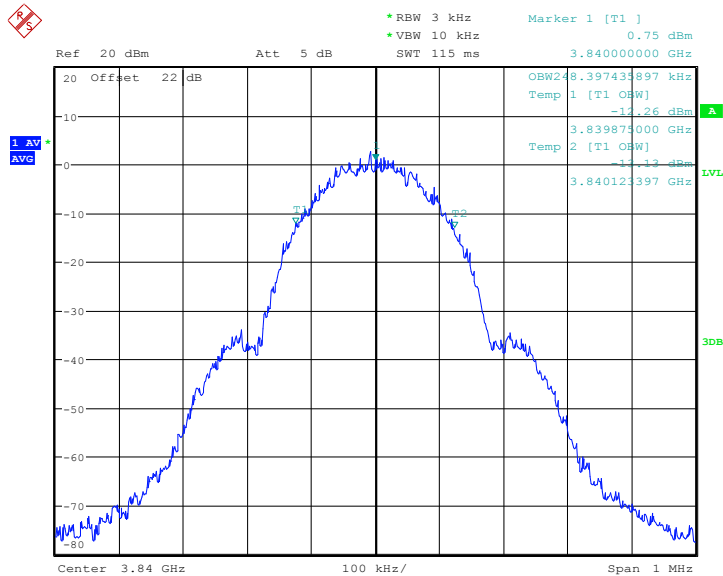
### 99% OBW

#### DL\_GSM\_MCH\_Input\_Pre-AGC



Date: 19.NOV.2024 11:49:53

#### DL\_GSM\_MCH\_Input\_3dB above AGC



Date: 19.NOV.2024 11:50:03



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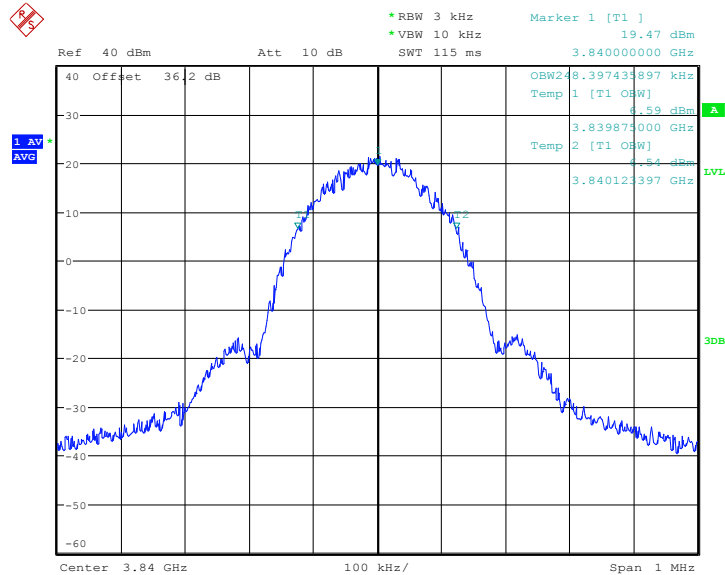
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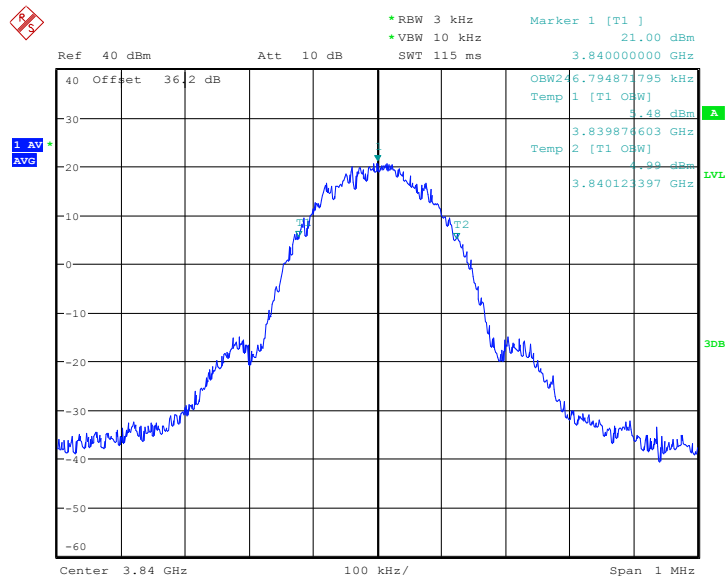
### 99% OBW

#### DL\_GSM\_MCH\_Output\_Pre-AGC



Date: 19.NOV.2024 10:26:40

#### DL\_GSM\_MCH\_Output\_3dB above AGC



Date: 19.NOV.2024 10:26:55



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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)	EIRP (dBm)	EIRP (W)	Gain (dB)
DL	3914.0	4.1MHz AWGN	Pre-AGC	15	37.35	42.35	17.18	22.64
			3dB above AGC	18	37.38	42.38	17.30	/
		100MHz AWGN	Pre-AGC	15	37.80	42.80	19.06	22.88
			3dB above AGC	18	37.77	42.77	18.93	/
		GSM	Pre-AGC	15	38.22	43.22	20.99	23.49
			3dB above AGC	18	38.43	43.43	22.03	/

Remark:

- f0 is from Out-of-band Rejection test in the report.
- EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 5dBi declared by the manufacturer.

Mean output power							
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	Output Power (dBm/MHz)	EIRP (dBm/MHz)	EIRP (W/MHz)	Verdict
DL	3914.0	4.1MHz AWGN	Pre-AGC	32.30	37.30	5.38	PASS
			3dB above AGC	32.34	37.34	5.43	PASS
		100MHz AWGN	Pre-AGC	17.42	22.42	0.18	PASS
			3dB above AGC	17.38	22.38	0.18	PASS
		GSM	Pre-AGC	38.22	43.22	20.99	PASS
			3dB above AGC	38.43	43.43	22.03	PASS

Remark:

- f0 is from Out-of-band Rejection test in the report.
- EIRP= output power (dBm)+ antenna gain (dBi), the antenna gain is 5dBi declared by the manufacturer.
- The output power is limited to an EIRP of 1640W/MHz.

Peak-to-average ratio (PAR)						
Test Path	Test Freq. f0 (MHz)	Test Signal	Signal Level	PAR (dB)	Limit (dB)	Verdict
DL	3914.0	4.1MHz AWGN	Pre-AGC	9.61	≤13	PASS
			3dB above AGC	9.63		PASS
		100MHz AWGN	Pre-AGC	9.73		PASS
			3dB above AGC	9.76		PASS
Remark: the PAR of a GSM signal is very low and not displayed in this report.						

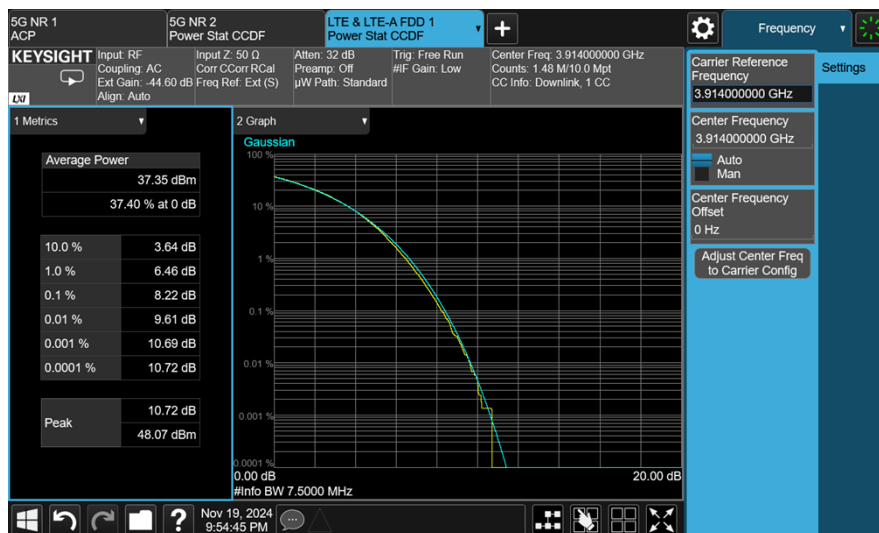


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### Peak-to-average ratio (PAR)

#### DL\_4.1MHz AWGN\_Pre-AGC



#### DL\_4.1MHz AWGN\_3dB above AGC

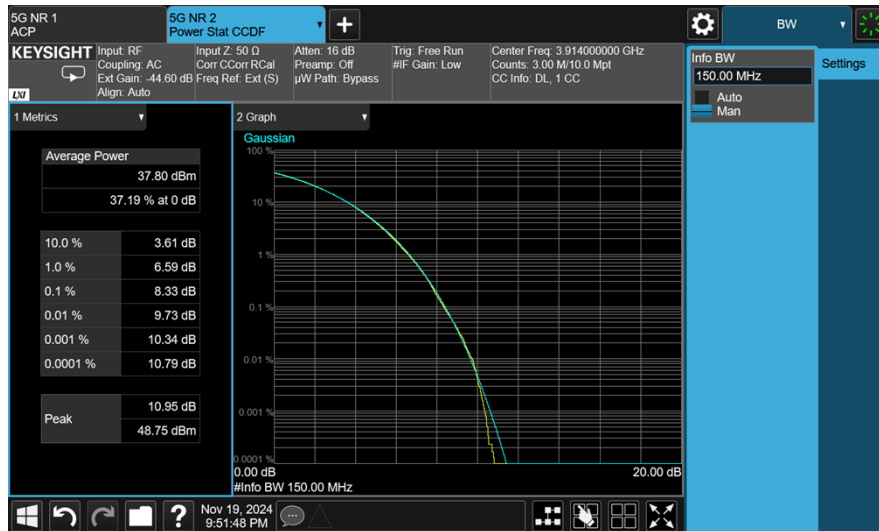


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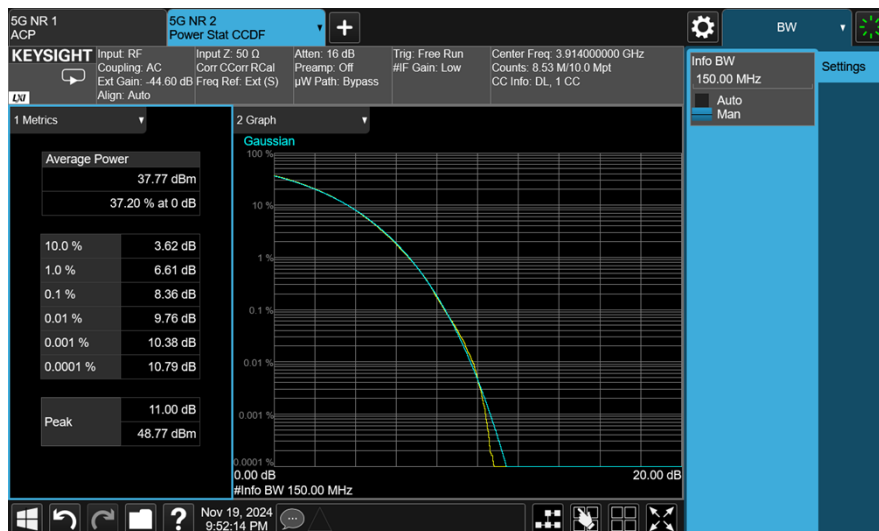
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### Peak-to-average ratio (PAR)

#### DL\_100MHz AWGN\_Pre-AGC



#### DL\_100MHz AWGN\_3dB above 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/MHz)	Verdict
					/100kHz	/1MHz		
DL	LCH	4.1MHz AWGN	One signal input	Pre-AGC	-26.01	-16.01	≤-13	PASS
				3dB above AGC	-25.60	-15.60		PASS
			Two signals input	Pre-AGC	-26.15	-16.15		PASS
				3dB above AGC	-25.97	-15.97		PASS
	HCH		One signal input	Pre-AGC	-25.68	-15.68		PASS
				3dB above AGC	-25.20	-15.20		PASS
			Two signals input	Pre-AGC	-26.29	-16.29		PASS
				3dB above AGC	-25.90	-15.90		PASS
DL	LCH	100MHz AWGN	One signal input	Pre-AGC	/	-15.59	≤-13	PASS
				3dB above AGC	/	-15.05		PASS
			Two signals input	Pre-AGC	/	-16.12		PASS
				3dB above AGC	/	-15.96		PASS
	HCH		One signal input	Pre-AGC	/	-14.37		PASS
				3dB above AGC	/	-14.26		PASS
			Two signals input	Pre-AGC	/	-14.57		PASS
				3dB above AGC	/	-14.59		PASS
Remark: The level in 1MHz RBW= the level in 100kHz RBW+ 10lg(1000/100).								



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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/MHz)	Verdict
					/10kHz	/1MHz		
DL	LCH	GSM	One signal input	Pre-AGC	-35.69	-15.69	≤-13	PASS
				3dB above AGC	-36.71	-16.71		PASS
			Two signals input	Pre-AGC	-37.23	-17.23		PASS
				3dB above AGC	-37.12	-17.12		PASS
	HCH		One signal input	Pre-AGC	-38.55	-18.55		PASS
				3dB above AGC	-37.38	-17.38		PASS
			Two signals input	Pre-AGC	-34.61	-14.61		PASS
				3dB above AGC	-34.90	-14.90		PASS
Remark: The level in 1MHz RBW= the level in 10kHz RBW+ 10lg(1000/10).								

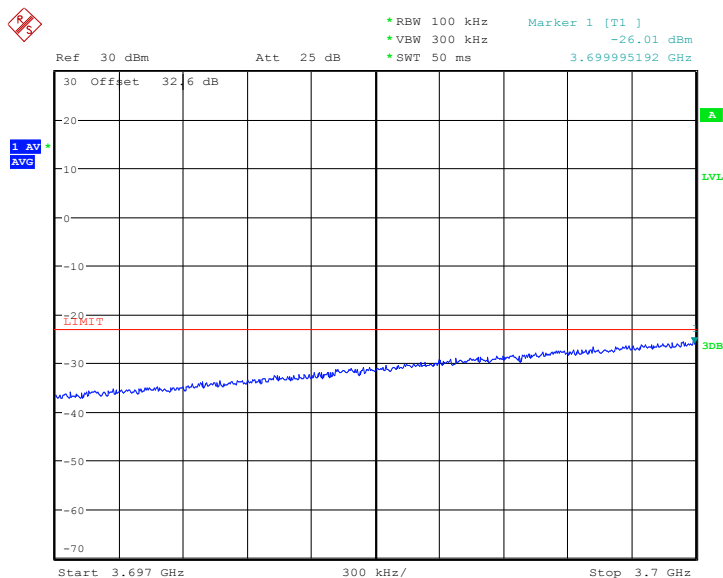


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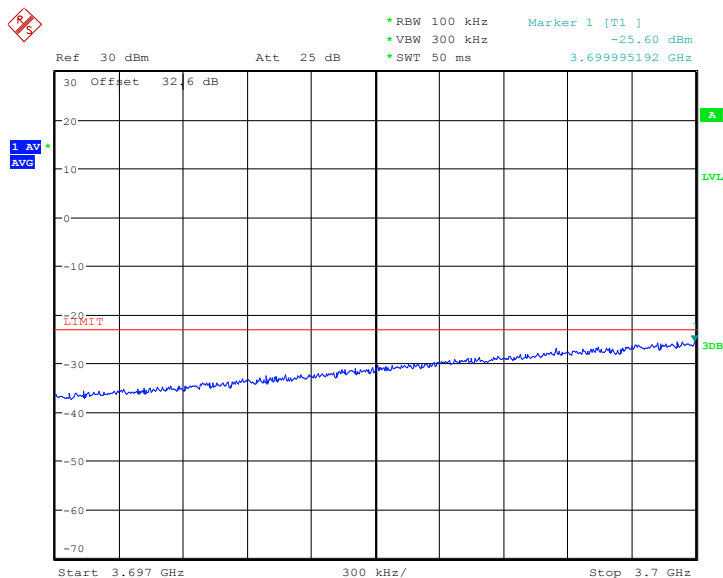
## Out-of-band/out-of-block emissions

### DL\_4.1MHz AWGN\_LCH\_a single test signal\_Pre-AGC



Date: 19.NOV.2024 10:57:37

### DL\_4.1MHz AWGN\_LCH\_a single test signal\_3dB above AGC



Date: 19.NOV.2024 10:57:46



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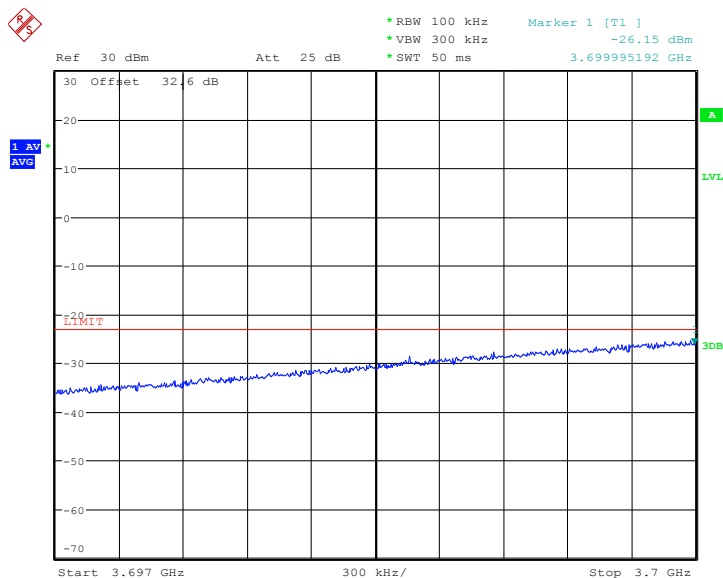
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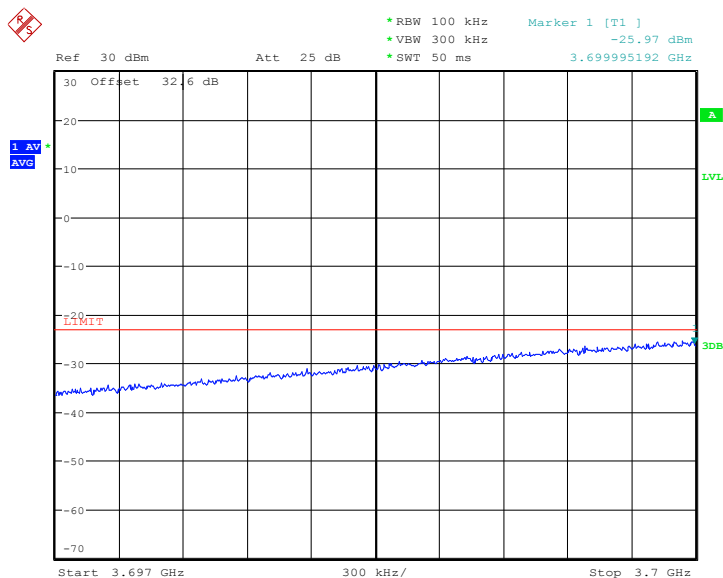
## Out-of-band/out-of-block emissions

### DL\_4.1MHz AWGN\_LCH\_two adjacent test signals\_Pre-AGC



Date: 19.NOV.2024 10:57:54

### DL\_4.1MHz AWGN\_LCH\_two adjacent test signals\_3dB above AGC



Date: 19.NOV.2024 10:58:00

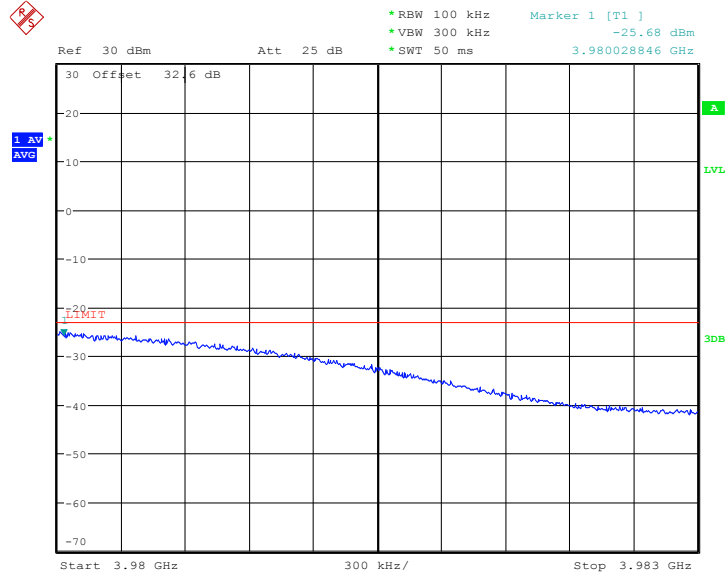


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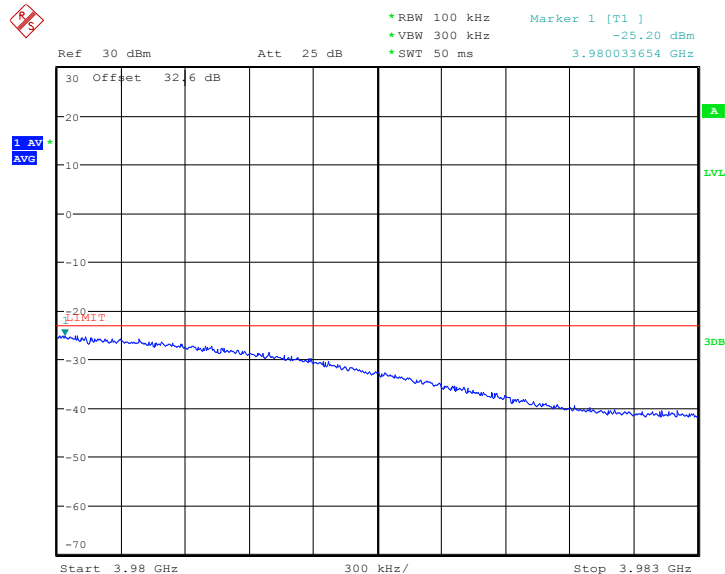
### Out-of-band/out-of-block emissions

#### DL\_4.1MHz AWGN\_HCH\_a single test signal\_Pre-AGC



Date: 19.NOV.2024 11:00:11

#### DL\_4.1MHz AWGN\_HCH\_a single test signal\_3dB above AGC



Date: 19.NOV.2024 11:00:17



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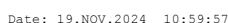
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**DL\_4.1MHz AWGN\_HCH\_two adjacent test signals\_Pre-AGC**

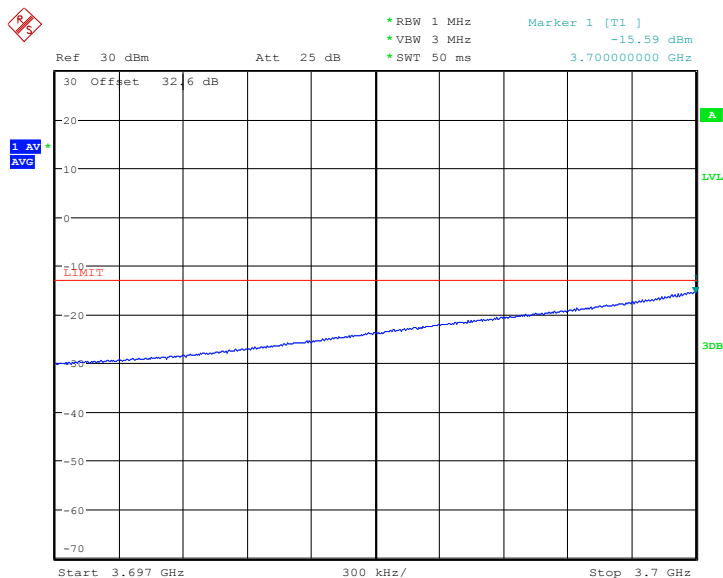


Date: 19.NOV.2024 11:00:01



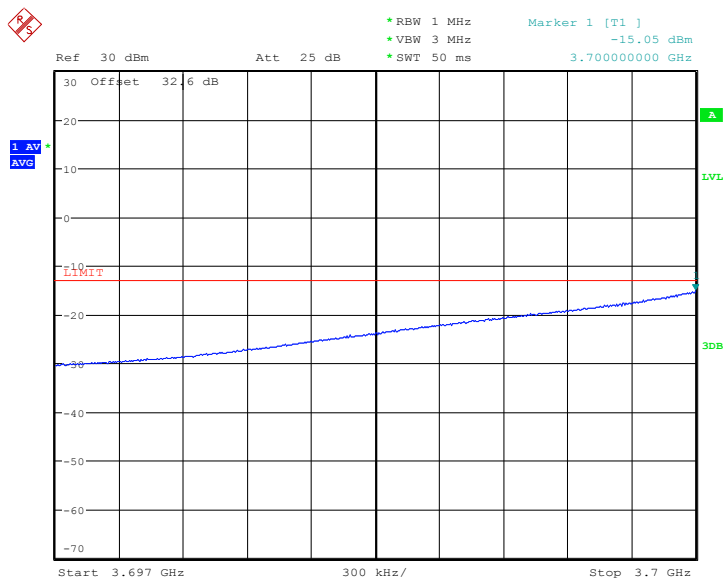
## Out-of-band/out-of-block emissions

### DL\_100MHz AWGN\_LCH\_a single test signal\_Pre-AGC



Date: 19.NOV.2024 11:04:38

### DL\_100MHz AWGN\_LCH\_a single test signal\_3dB above AGC



Date: 19.NOV.2024 11:04:43



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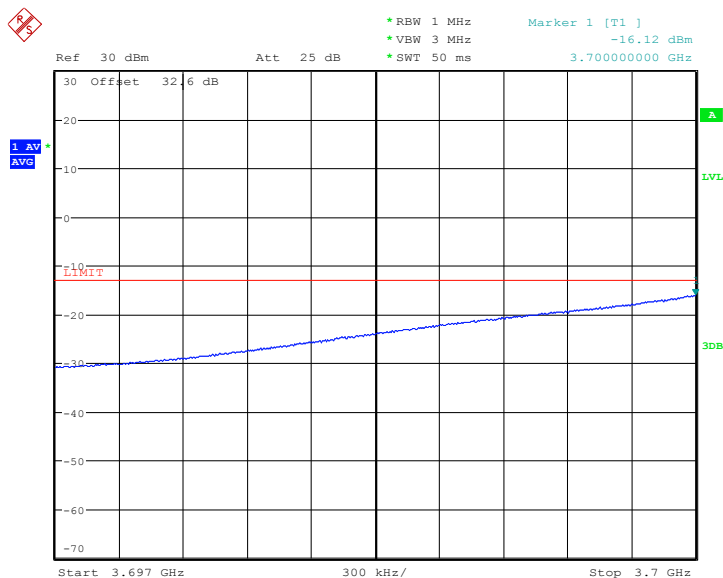
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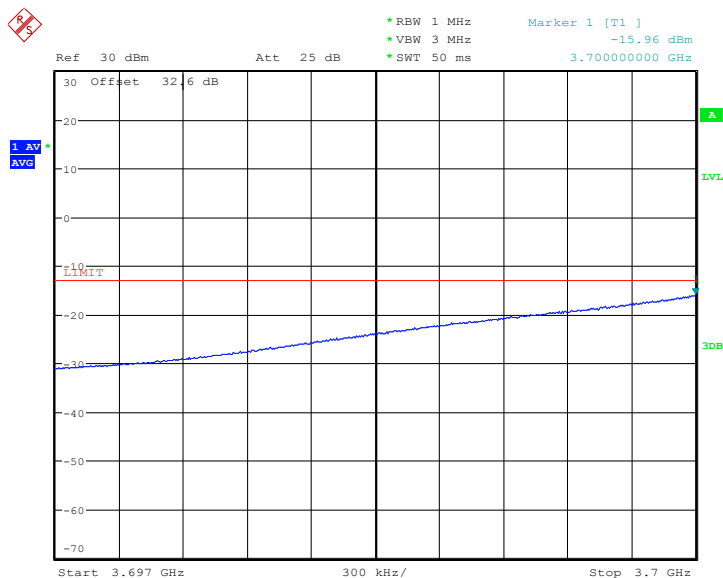
## Out-of-band/out-of-block emissions

### DL\_100MHz AWGN\_LCH\_two test signals\_Pre-AGC



Date: 19.NOV.2024 11:04:51

### DL\_100MHz AWGN\_LCH\_two test signals\_3dB above AGC



Date: 19.NOV.2024 11:04:54

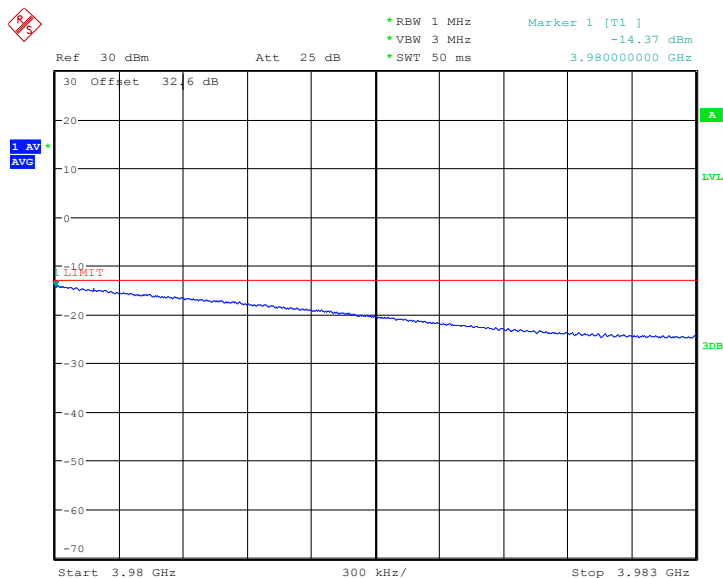


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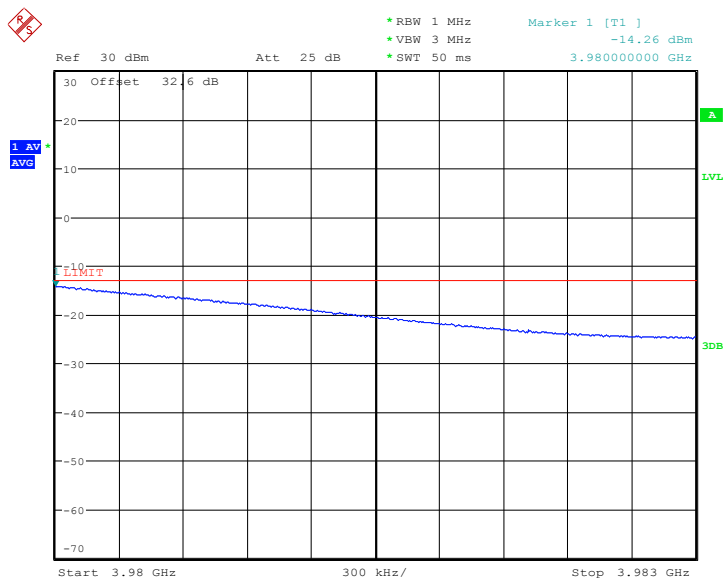
## Out-of-band/out-of-block emissions

### DL\_100MHz AWGN\_HCH\_a single test signal\_Pre-AGC



Date: 19.NOV.2024 11:03:36

### DL\_100MHz AWGN\_HCH\_a single test signal\_3dB above AGC



Date: 19.NOV.2024 11:03:41



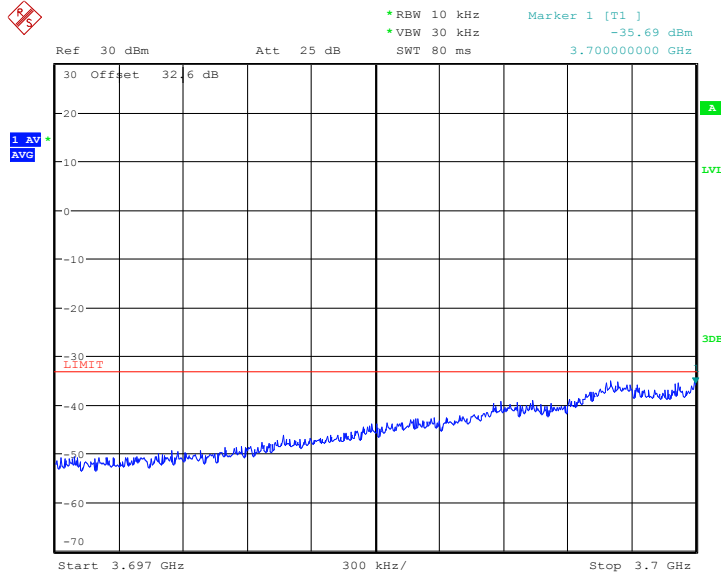
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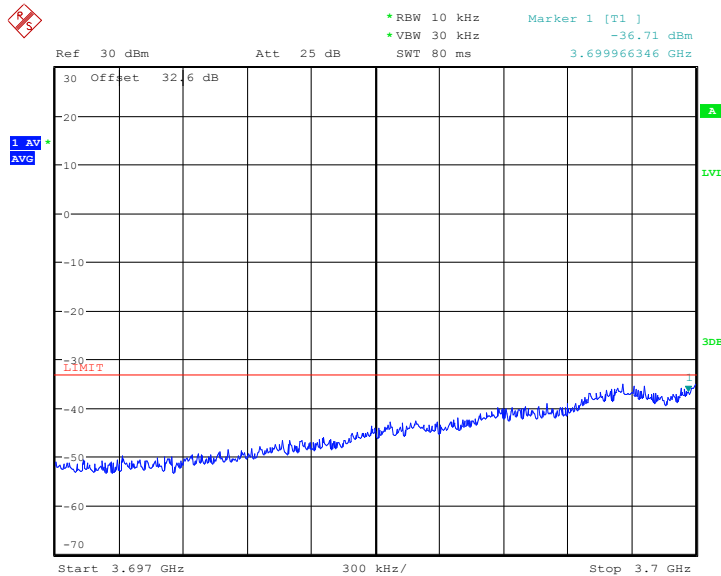
### Out-of-band/out-of-block emissions

#### DL\_GSM\_LCH\_a single test signal\_Pre-AGC



Date: 19.NOV.2024 11:08:35

#### DL\_GSM\_LCH\_a single test signal\_3dB above AGC



Date: 19.NOV.2024 11:08:44



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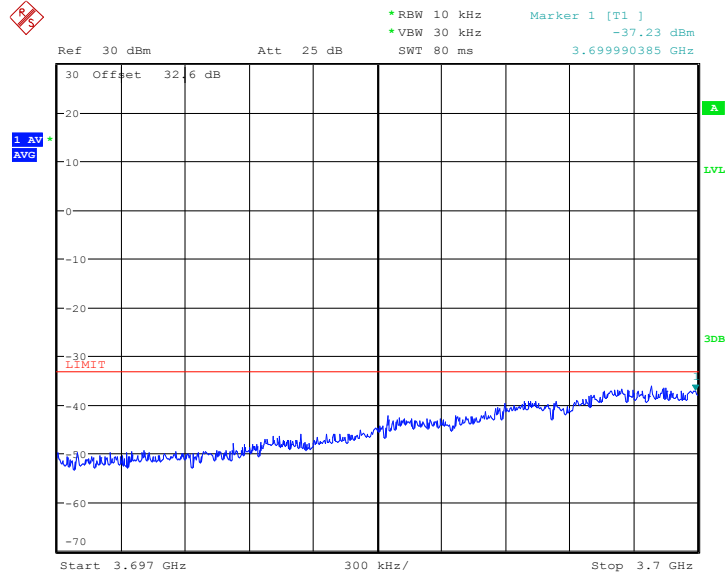
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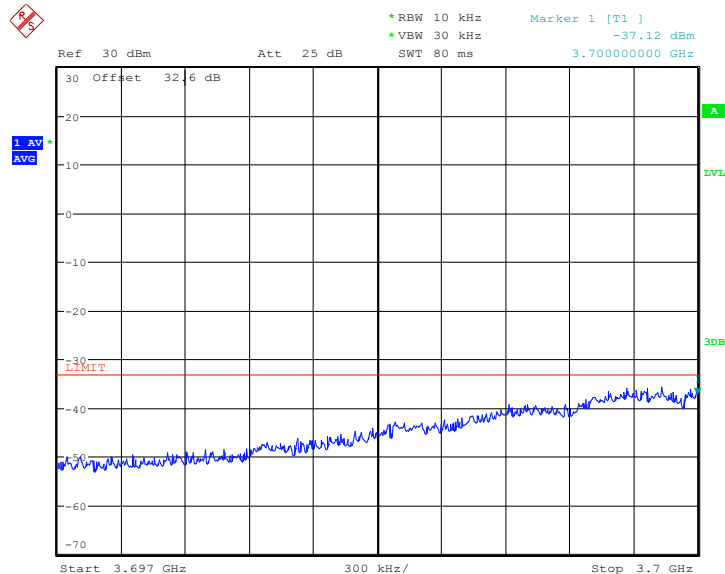
### Out-of-band/out-of-block emissions

#### DL\_GSM\_LCH\_two adjacent test signals\_Pre-AGC



Date: 19.NOV.2024 11:09:13

#### DL\_GSM\_LCH\_two adjacent test signals\_3dB above AGC



Date: 19.NOV.2024 11:09:22



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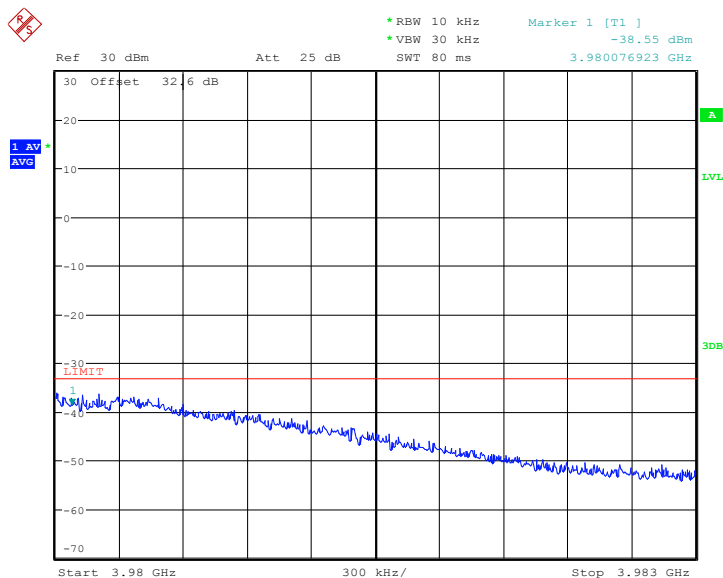
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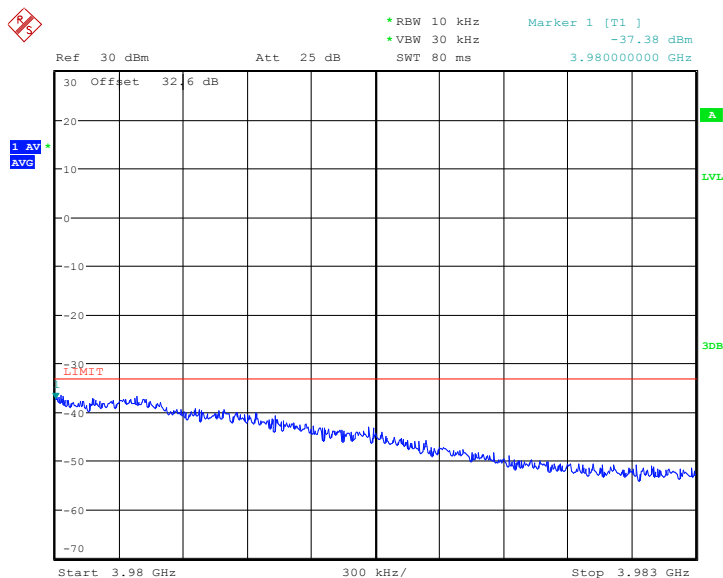
## Out-of-band/out-of-block emissions

### DL\_GSM\_HCH\_a single test signal\_Pre-AGC



Date: 19.NOV.2024 11:10:41

### DL\_GSM\_HCH\_a single test signal\_3dB above AGC



Date: 19.NOV.2024 11:10:47



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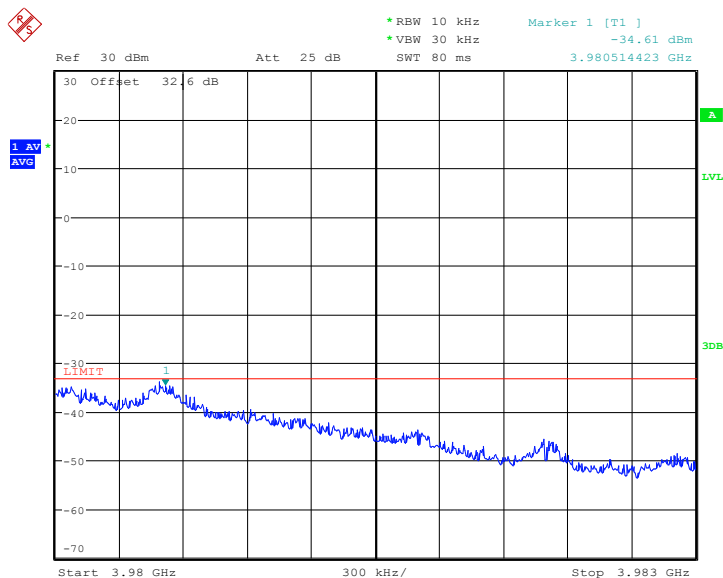
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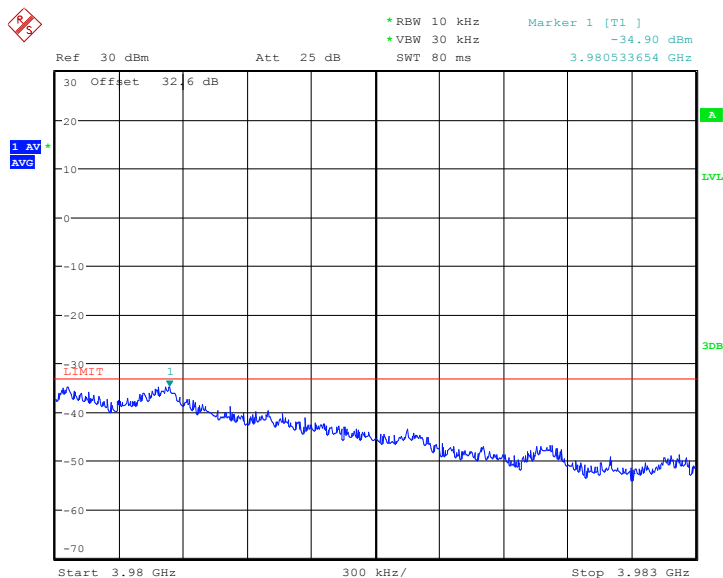
### Out-of-band/out-of-block emissions

#### DL\_GSM\_HCH\_two adjacent test signals\_Pre-AGC



Date: 19.NOV.2024 11:10:14

#### DL\_GSM\_HCH\_two adjacent test signals\_3dB above AGC



Date: 19.NOV.2024 11:10:19



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## 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	-28.66	≤-13	PASS
			1000-3699	-16.23	≤-13	PASS
		HCH	3981-39800	-19.74	≤-13	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= 5W limit= 37dBm– [43+ 10log10(5W)]dB= -13dBm 2. 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.						



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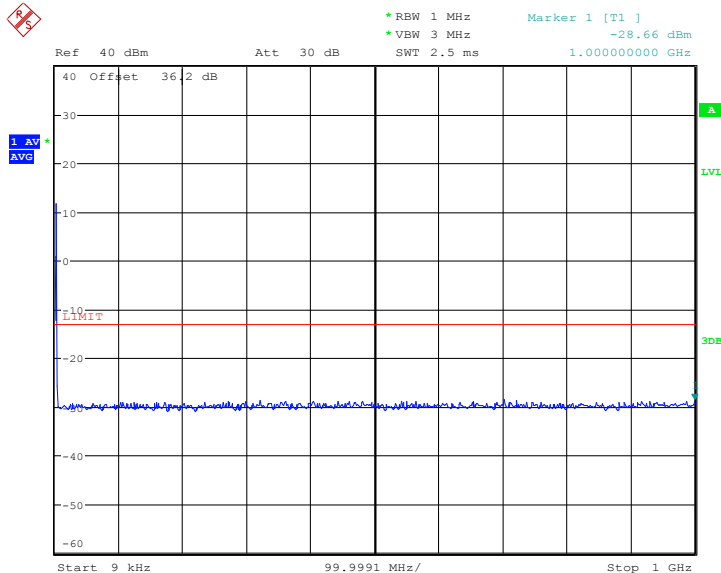
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EMC-ARF-05 Rev 1.1

Page: 29 of 34

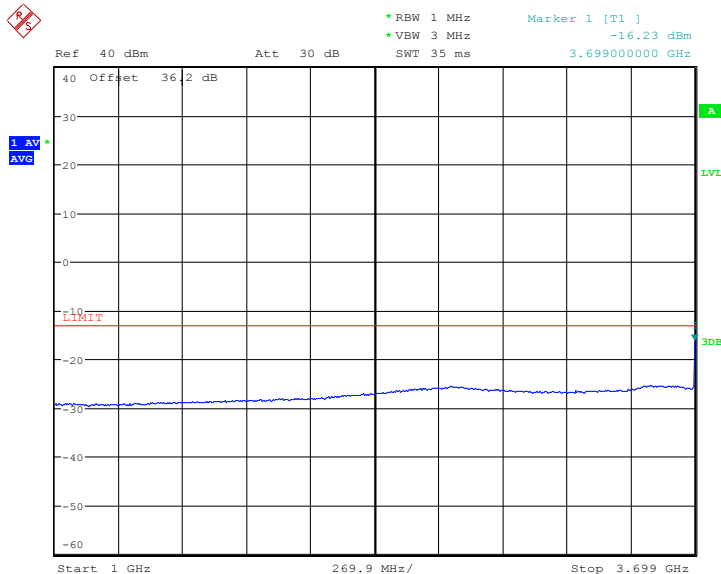
## Conducted spurious emissions

### DL\_4.1MHz AWGN\_LCH\_Pre-AGC



Date: 19.NOV.2024 10:31:46

### DL\_4.1MHz AWGN\_LCH\_Pre-AGC



Date: 19.NOV.2024 10:32:26



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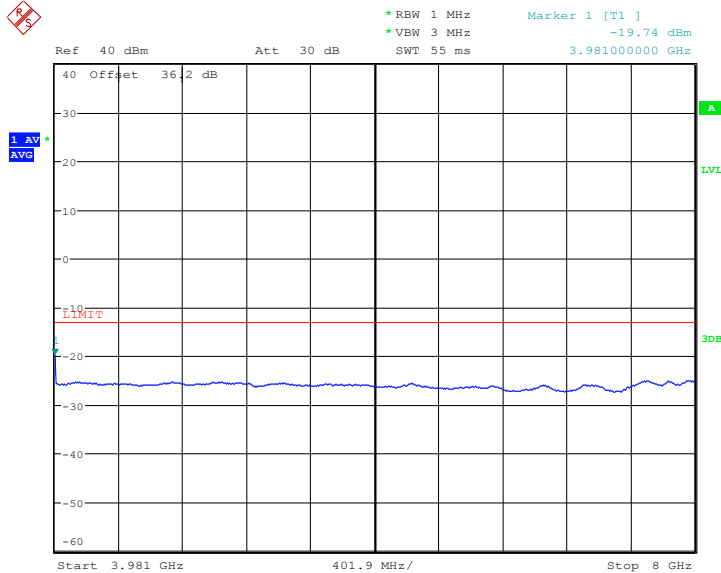
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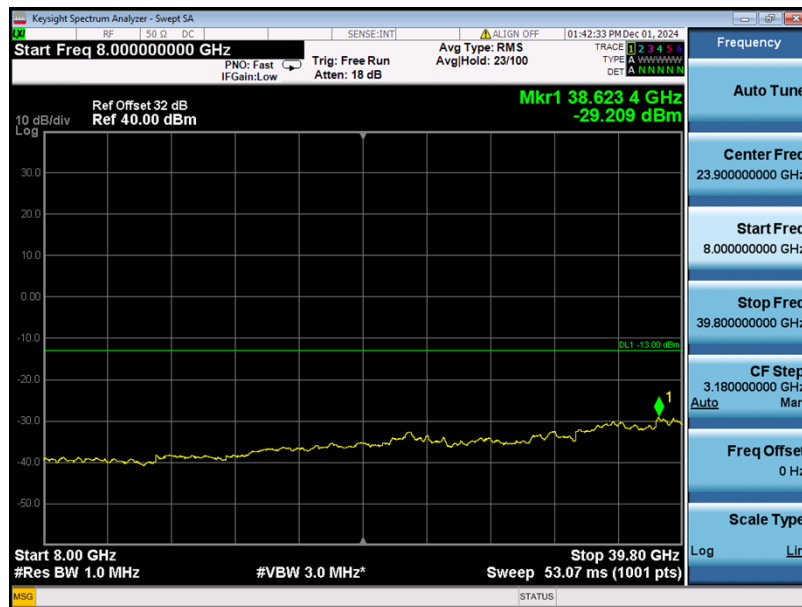
Member of the SGS Group (SGS SA)

### Conducted spurious emissions

#### DL\_4.1MHz AWGN\_HCH\_Pre-AGC



Date: 19.NOV.2024 10:33:33



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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	11.2	0.00292	PASS
			TN	VH	14.9	0.00388	PASS
		100MHz AWGN	TN	VL	14.1	0.00367	PASS
			TN	VH	14.8	0.00385	PASS
		GSM	TN	VL	10.4	0.00271	PASS
			TN	VH	13.4	0.00349	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	11.6	0.00302	PASS
			VN	+40	12.1	0.00315	PASS
			VN	+30	11.6	0.00302	PASS
			VN	+20	11.4	0.00297	PASS
			VN	+10	11.9	0.00310	PASS
			VN	0	12.5	0.00326	PASS
			VN	-10	10.1	0.00263	PASS
			VN	-20	13.9	0.00362	PASS
			VN	-30	14.3	0.00372	PASS
	MCH	100MHz AWGN	VN	+50	13.6	0.00354	PASS
			VN	+40	12.5	0.00326	PASS
			VN	+30	12.2	0.00318	PASS
			VN	+20	14.0	0.00365	PASS
			VN	+10	10.2	0.00266	PASS
			VN	0	12.3	0.00320	PASS
			VN	-10	10.1	0.00263	PASS
			VN	-20	11.7	0.00305	PASS
			VN	-30	14.4	0.00375	PASS
	MCH	GSM	VN	+50	11.0	0.00286	PASS
			VN	+40	11.8	0.00307	PASS
			VN	+30	13.5	0.00352	PASS
			VN	+20	11.5	0.00299	PASS
			VN	+10	10.5	0.00273	PASS
			VN	0	10.4	0.00271	PASS
			VN	-10	14.0	0.00365	PASS
			VN	-20	12.6	0.00328	PASS
			VN	-30	15.2	0.00396	PASS



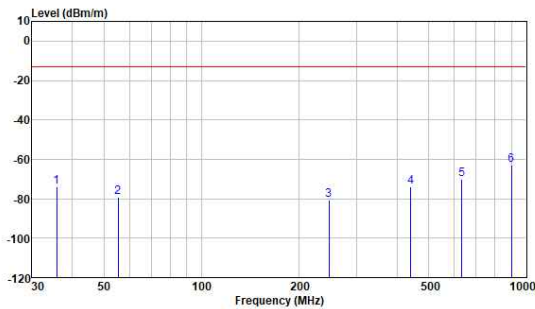
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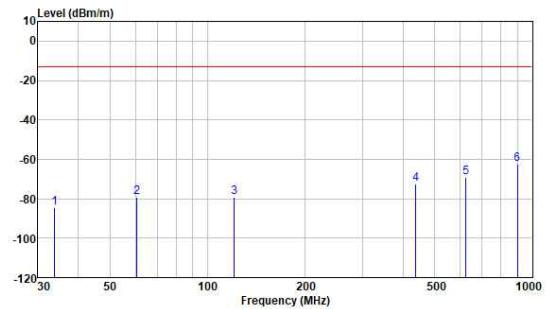
### 7 Radiated Spurious emissions

#### Radiated Spurious emissions

##### DL\_4.1MHz AWGN\_MCH\_30MHz-1GHz

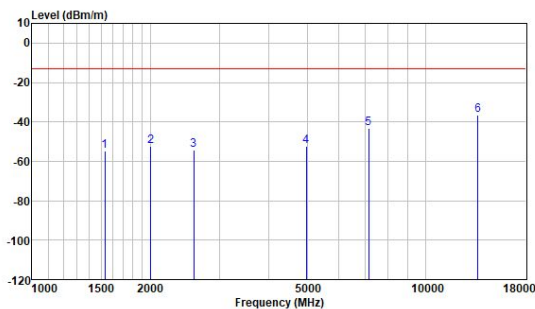


	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	35.75	-76.64	2.76	-73.88	-13.00	-60.88	HORIZONTAL
2	55.22	-77.17	-1.98	-79.15	-13.00	-66.15	HORIZONTAL
3	246.81	-74.79	-5.70	-80.49	-13.00	-67.49	HORIZONTAL
4	440.20	-74.39	0.22	-74.17	-13.00	-61.17	HORIZONTAL
5	633.91	-73.78	3.59	-70.19	-13.00	-57.19	HORIZONTAL
6	900.15	-72.48	9.45	-63.03	-13.00	-50.03	HORIZONTAL

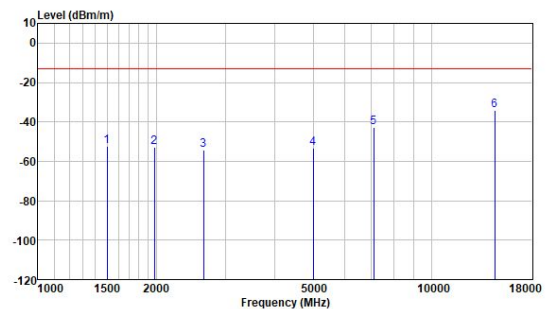


	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	33.80	-76.81	-7.52	-84.33	-13.00	-71.33	VERTICAL
2	60.49	-77.06	-2.28	-79.34	-13.00	-66.34	VERTICAL
3	120.70	-75.10	-3.93	-79.03	-13.00	-66.03	VERTICAL
4	437.12	-74.01	1.34	-72.67	-13.00	-59.67	VERTICAL
5	625.08	-73.59	4.45	-69.14	-13.00	-56.14	VERTICAL
6	900.15	-73.04	10.65	-62.39	-13.00	-49.39	VERTICAL

##### 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	1533.84	-59.60	4.87	-54.73	-13.00	-41.73	HORIZONTAL
2	2001.08	-62.10	9.88	-52.22	-13.00	-39.22	HORIZONTAL
3	2573.20	-60.51	6.10	-54.41	-13.00	-41.41	HORIZONTAL
4	4973.66	-63.35	10.88	-52.47	-13.00	-39.47	HORIZONTAL
5	7158.81	-61.83	18.71	-43.12	-13.00	-30.12	HORIZONTAL
6	13559.88	-64.15	27.47	-36.68	-13.00	-23.68	HORIZONTAL



	Freq	Read Level	Correction Factor	Level	Limit Line	Over Limit	Pol/Phase
	MHz	dBm	dB	dBm	dBm	dB	
1	1498.78	-59.10	6.97	-52.13	-13.00	-39.13	VERTICAL
2	1978.08	-61.27	8.30	-52.97	-13.00	-39.97	VERTICAL
3	2633.40	-59.71	5.52	-54.19	-13.00	-41.19	VERTICAL
4	5002.50	-63.20	10.04	-53.16	-13.00	-40.16	VERTICAL
5	7117.54	-62.38	19.63	-42.75	-13.00	-29.75	VERTICAL
6	14450.13	-61.53	27.29	-34.24	-13.00	-21.24	VERTICAL



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**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 and above 18GHz were very low and not displayed in this report. Therefore, only show the worst-case data in this report.

**--End of Appendix--**



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