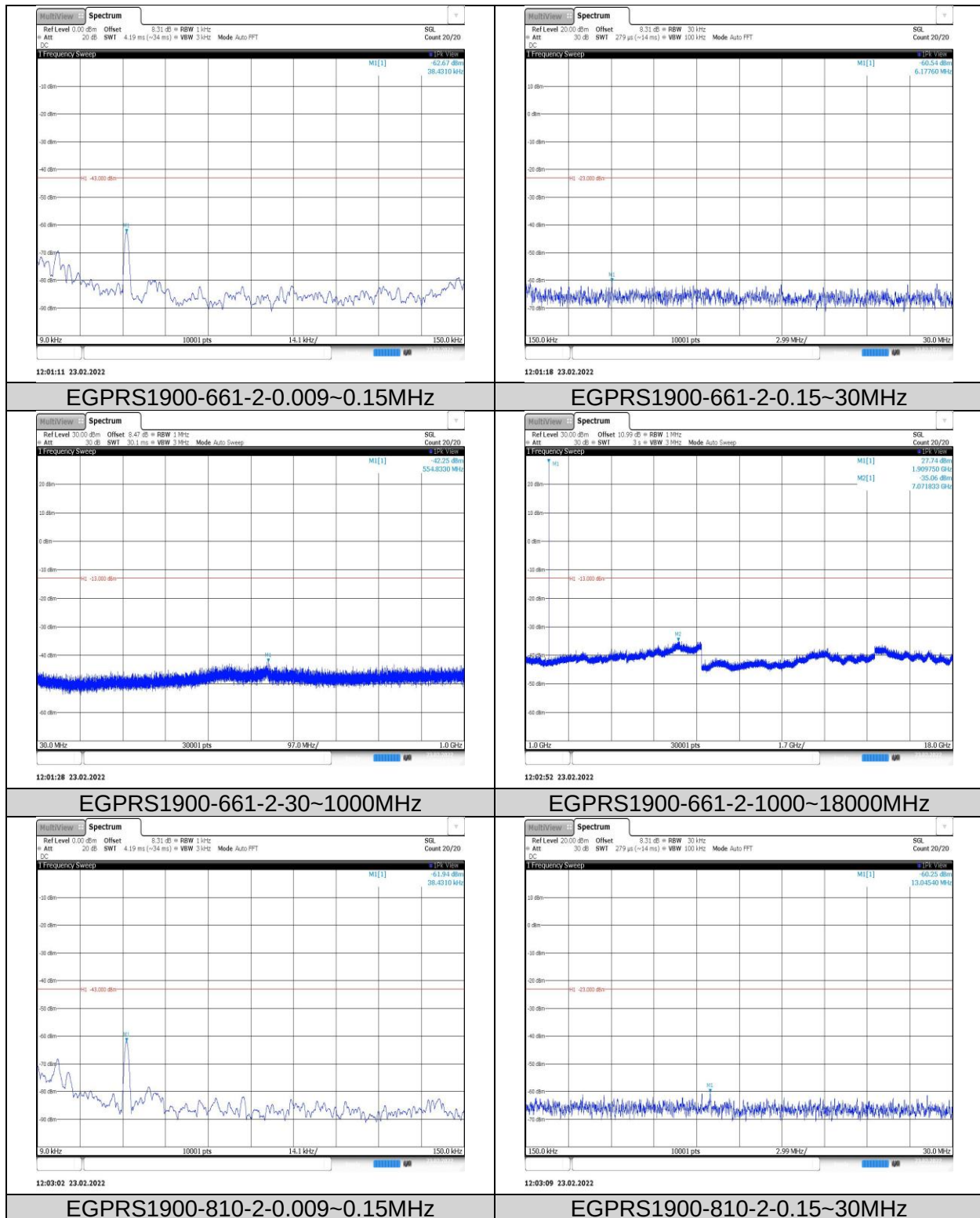
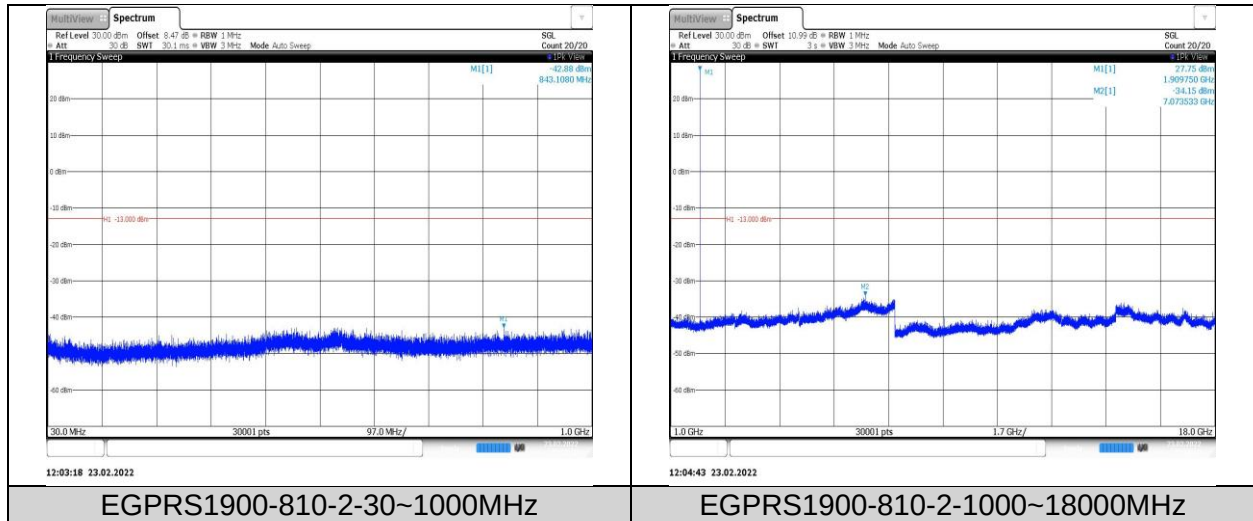
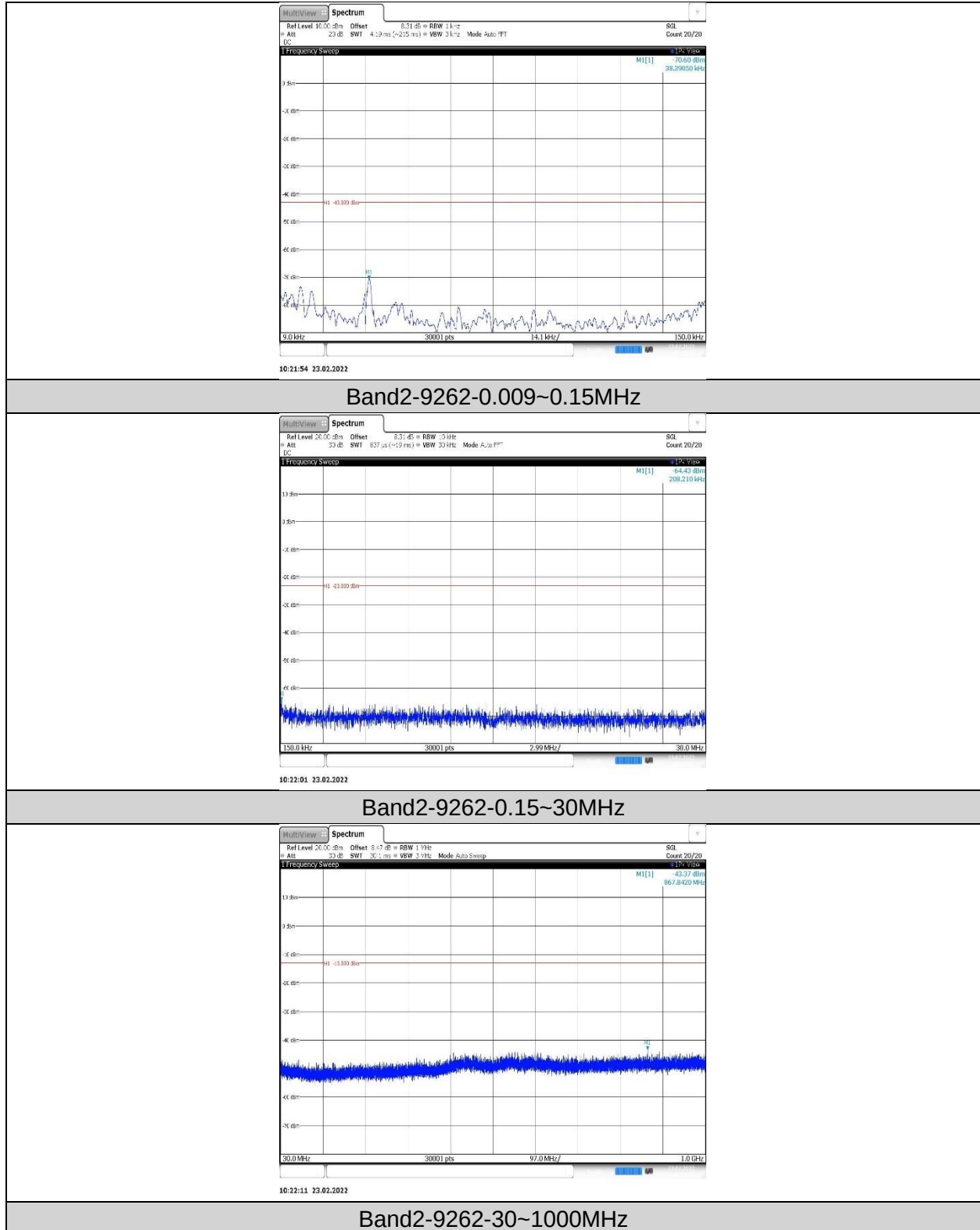


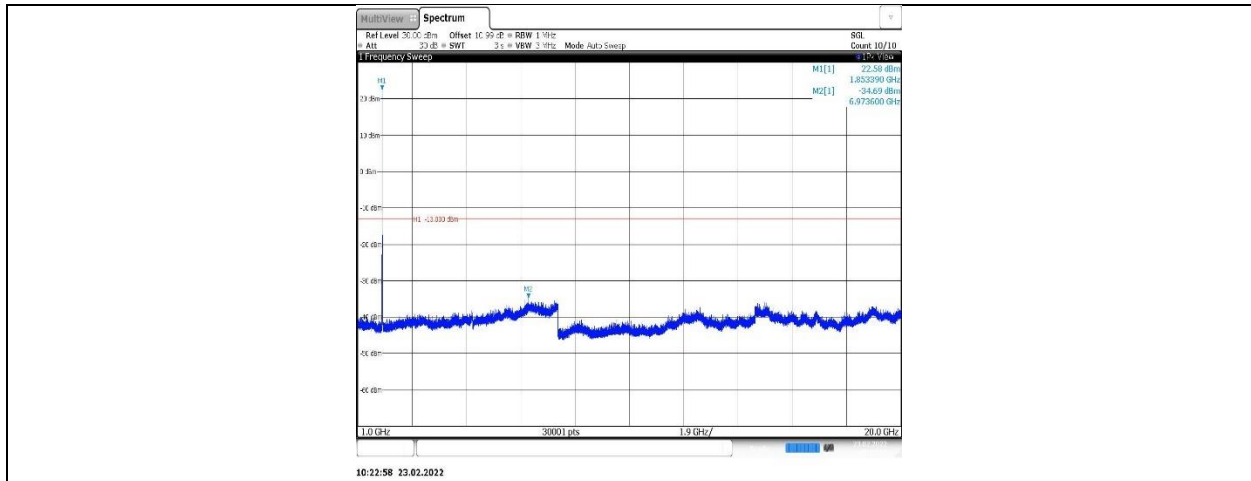




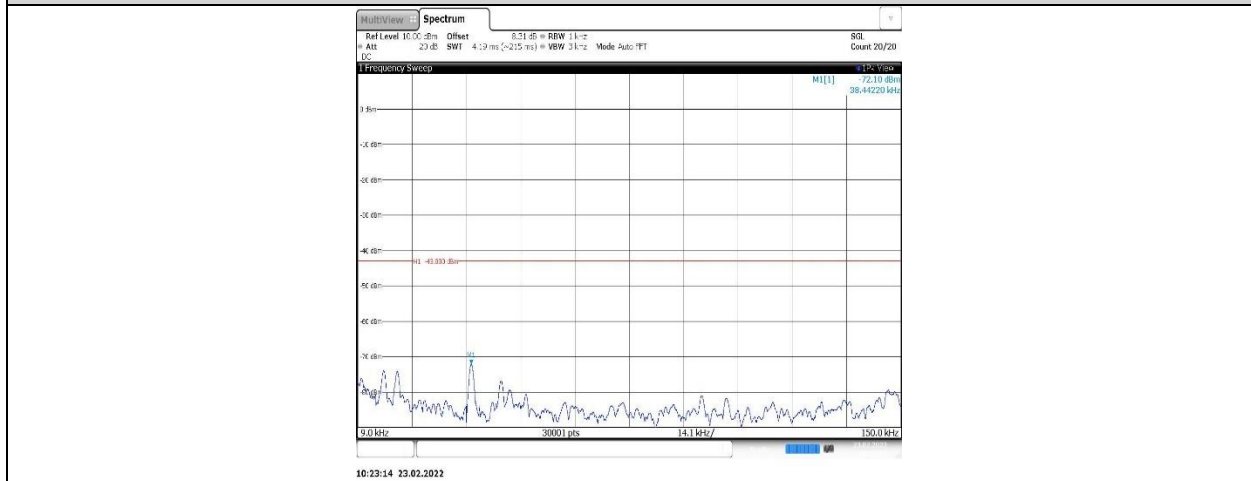


WCDMA Rel99

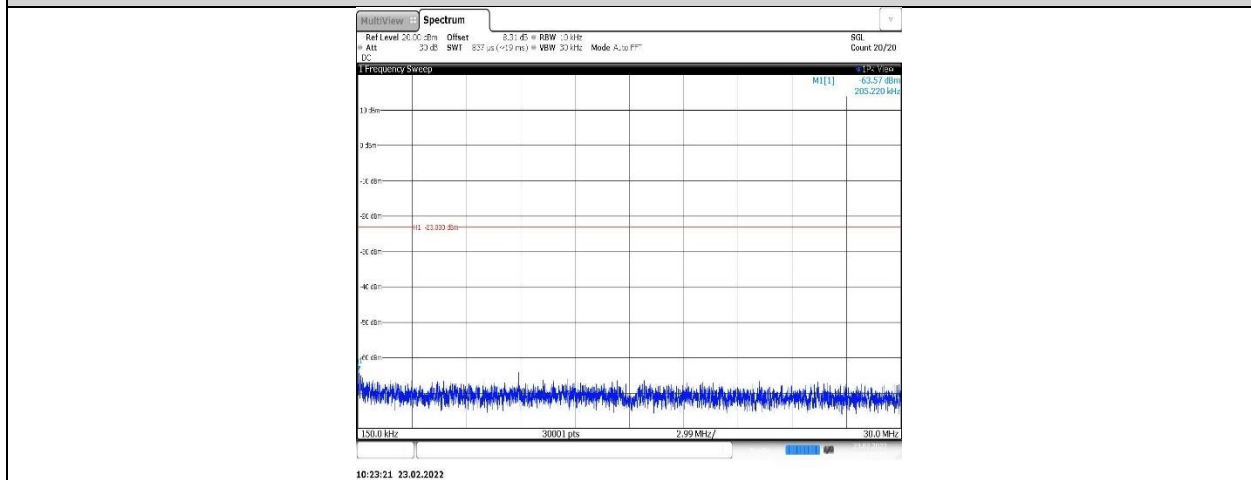




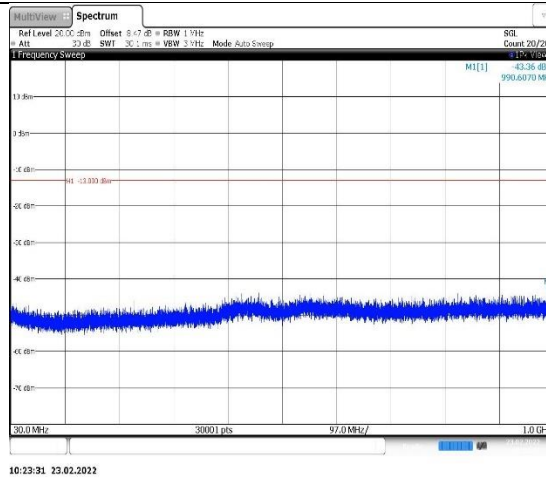
Band2-9262-1000~20000MHz



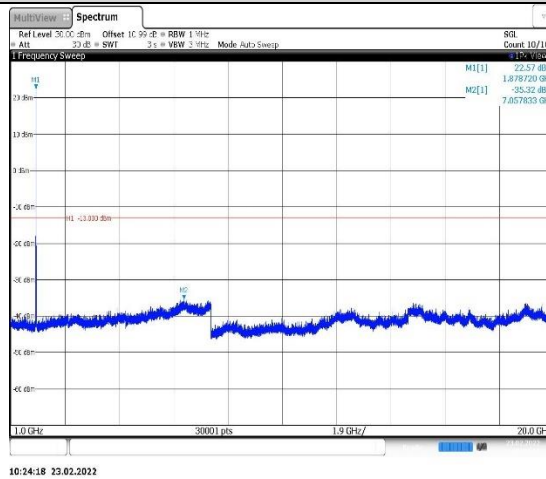
Band2-9400-0.009~0.15MHz



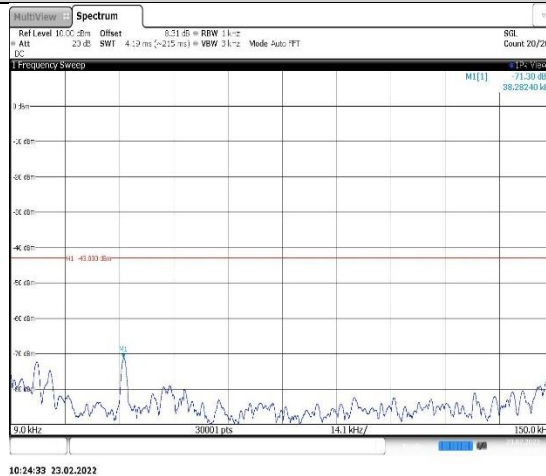
Band2-9400-0.15~30MHz



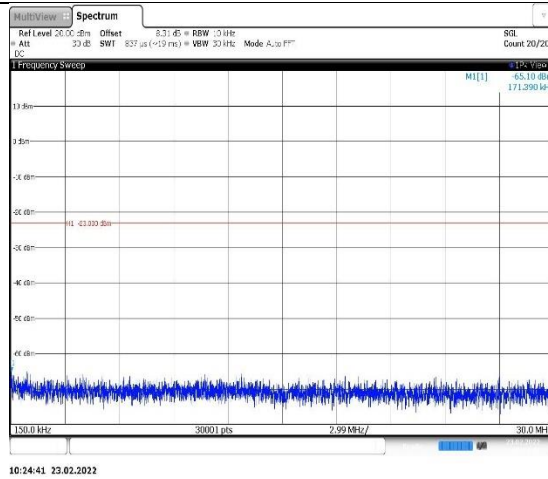
Band2-9400-30~1000MHz



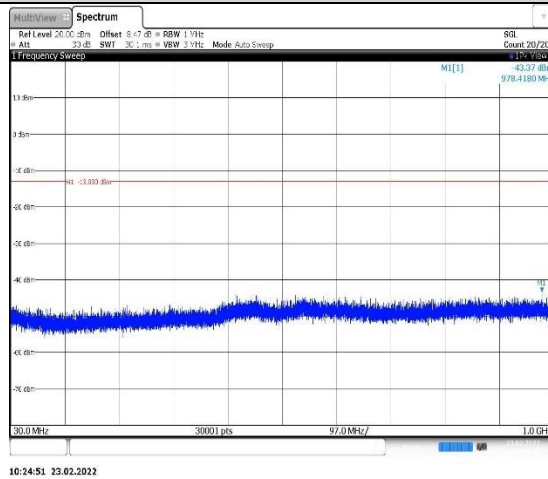
Band2-9400-1000~20000MHz



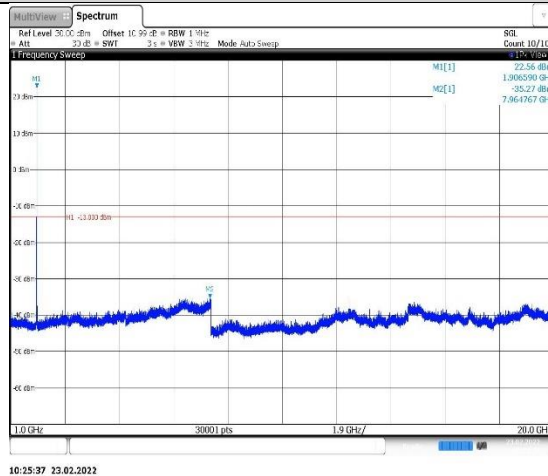
Band2-9538-0.009~0.15MHz



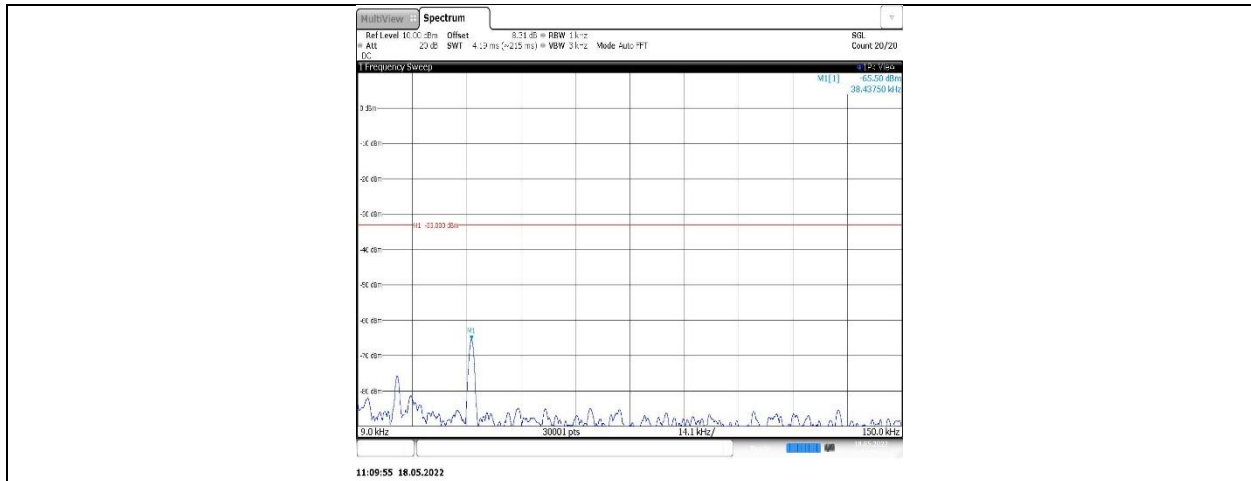
Band2-9538-0.15~30MHz



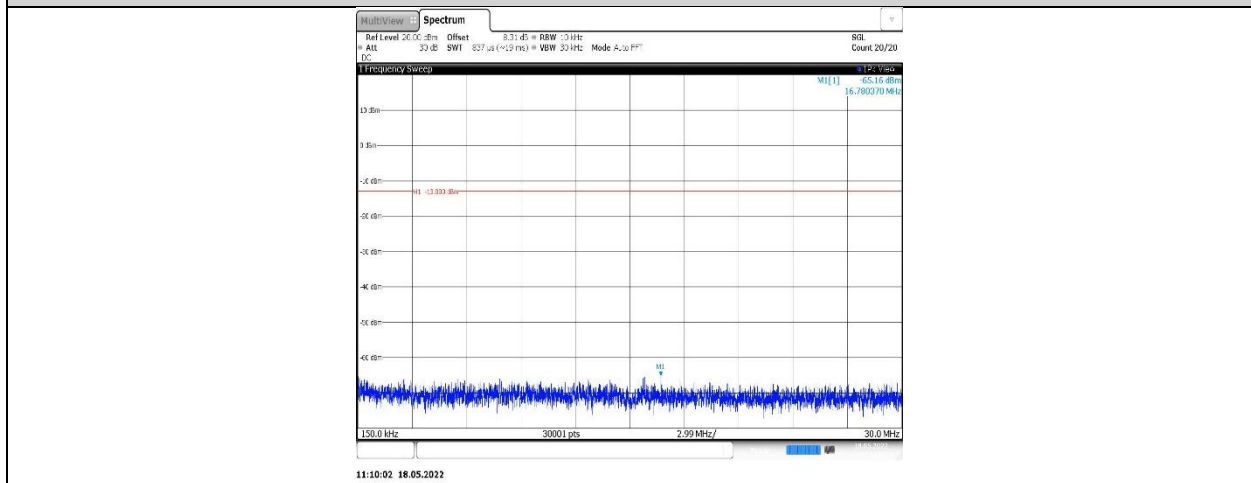
Band2-9538-30~1000MHz



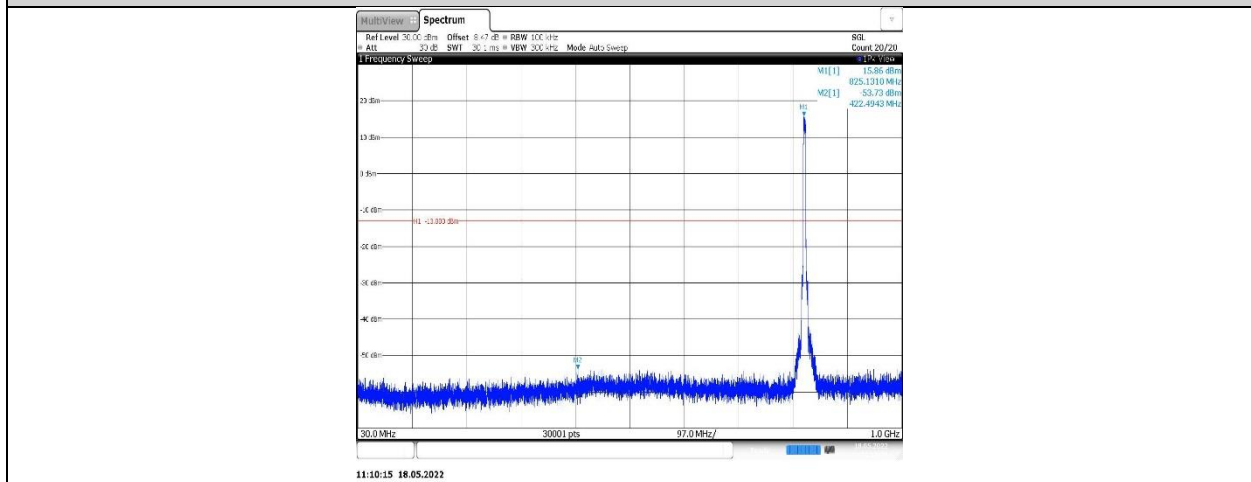
Band2-9538-1000~20000MHz



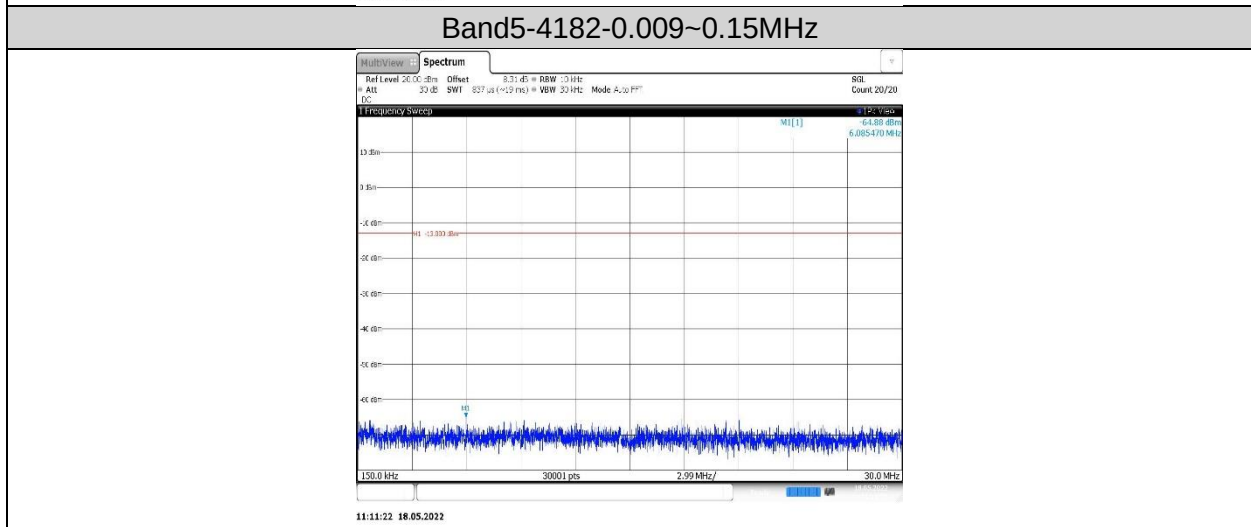
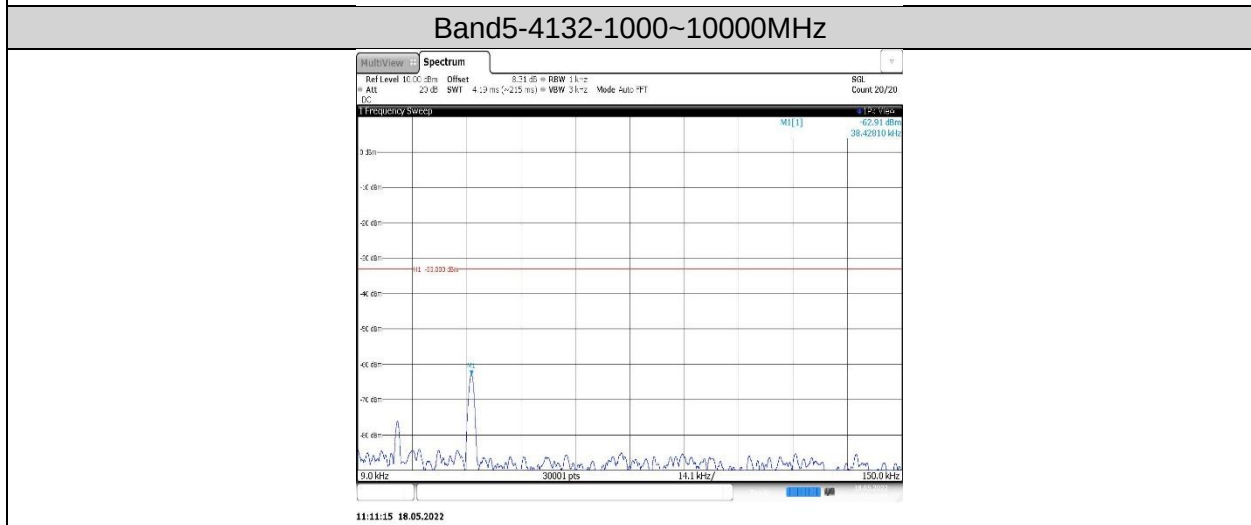
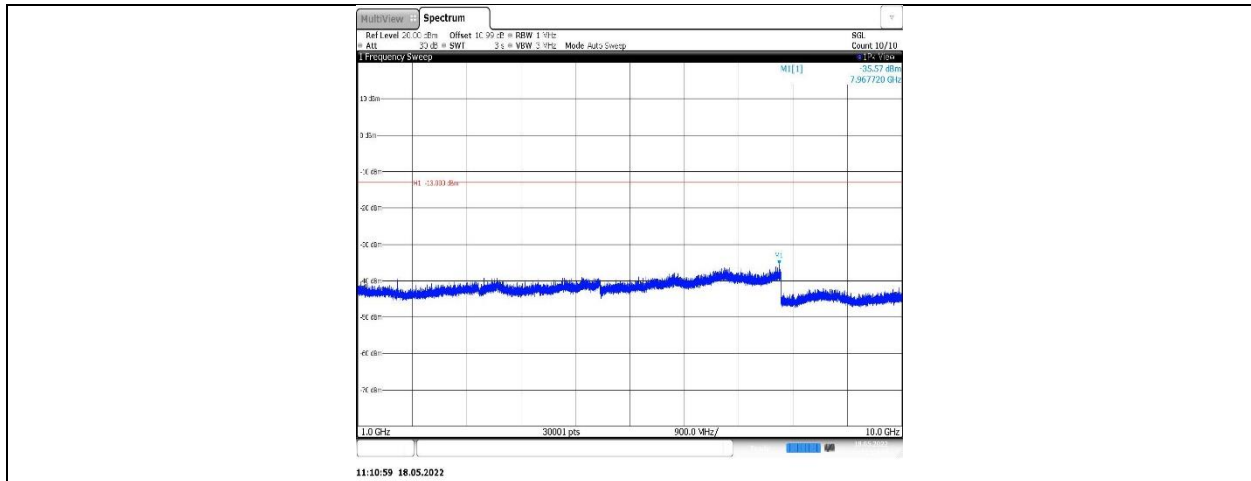
Band5-4132-0.009~0.15MHz

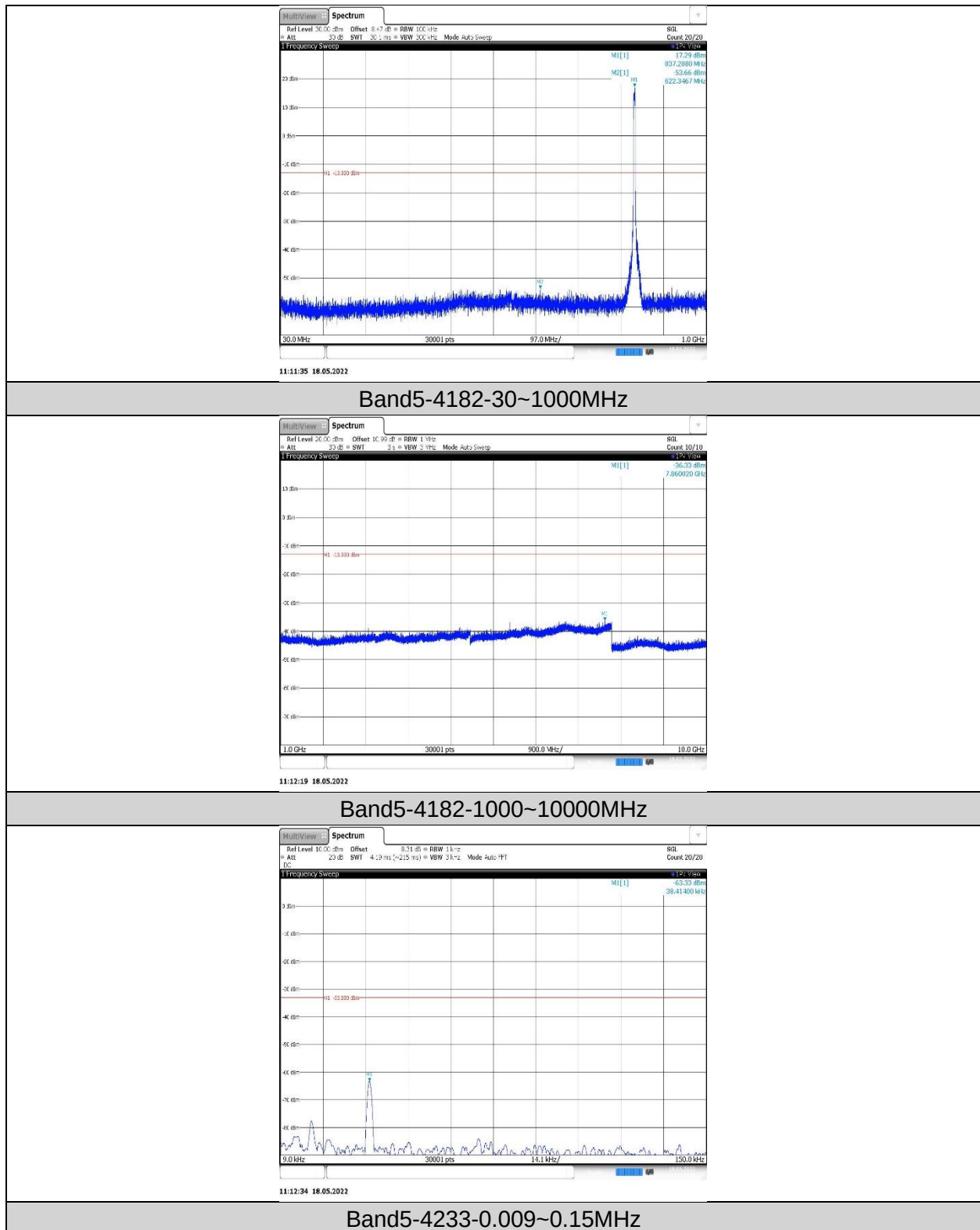


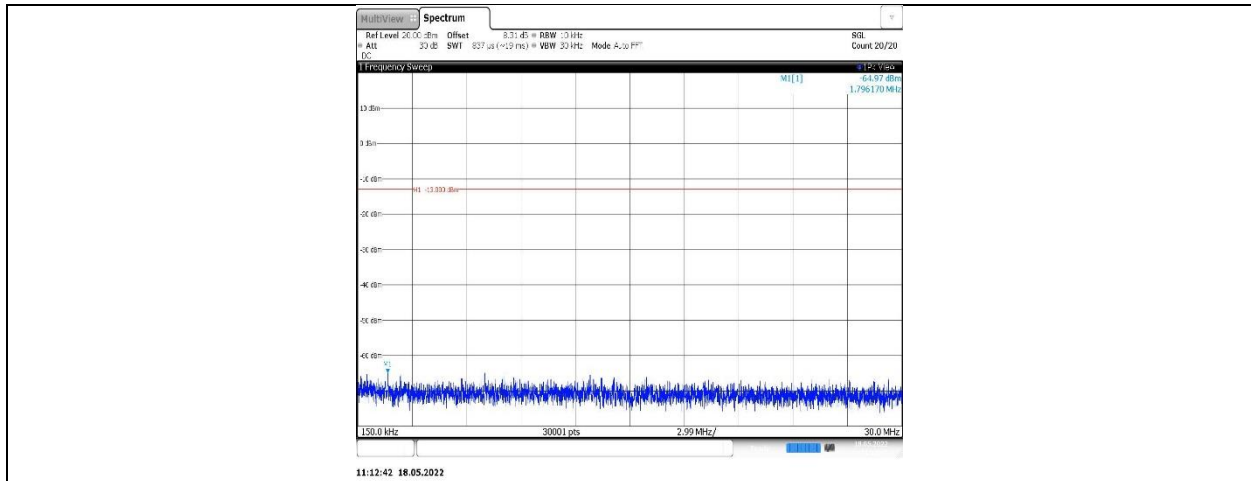
Band5-4132-0.15~30MHz



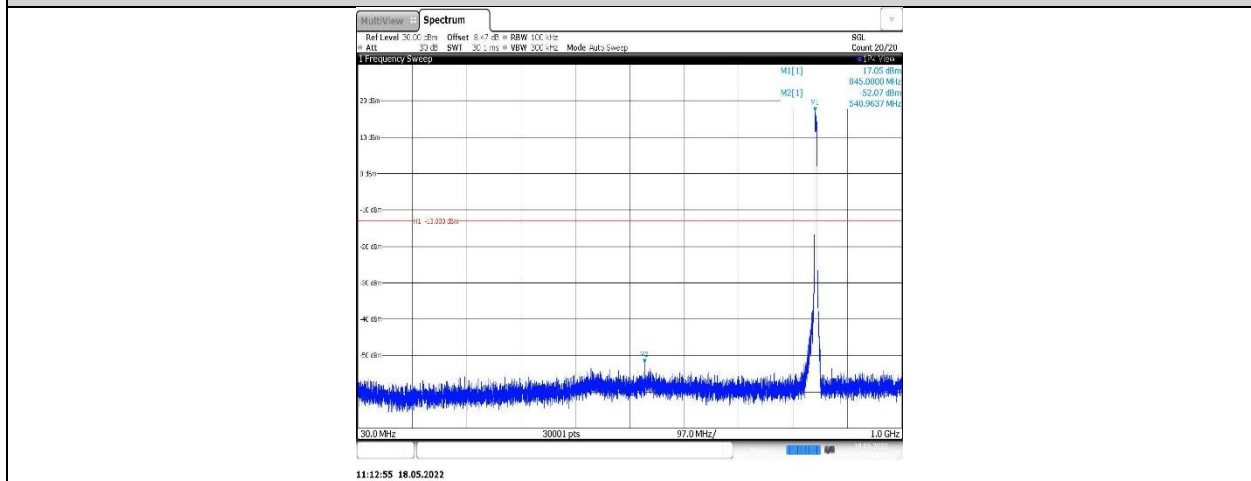
Band5-4132-30~1000MHz



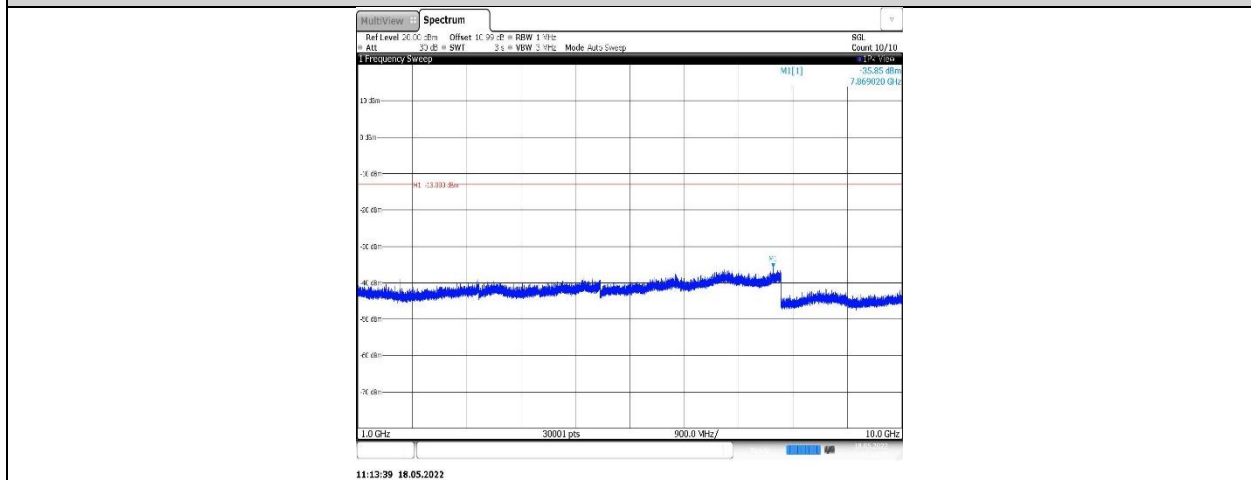




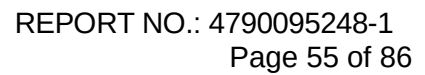
Band5-4233-0.15~30MHz



Band5-4233-30~1000MHz



Band5-4233-1000~10000MHz



Ref Level 10.00 dBm Offset 0.31 dB = RBW 14 Hz
 = Att 23 dB SWF 4.19 ms (-215.75) = VBW 3 Hz Mode Auto FFT
 90 Count 20/27
 112. Vrms
 0.061 dB
 38.3811034
 Frequency Sweep
 14.1 kHz
 15:29:27 23.02.2022

MultiView Spectrum

Ref Level: 20.00 dBm Offset: 0.07 dB RBW: 1 MHz Mode: Auto Sweep

AW: 30.0 MHz BW: 30.0 MHz Span: 970.0 MHz

Frequency Sweep

M1[1] 874.5330 MHz

13.00 dB

10.00 dB

7.00 dB

4.00 dB

1.00 dB

-20.00 dBm

-30.00 dBm

-40.00 dBm

-50.00 dBm

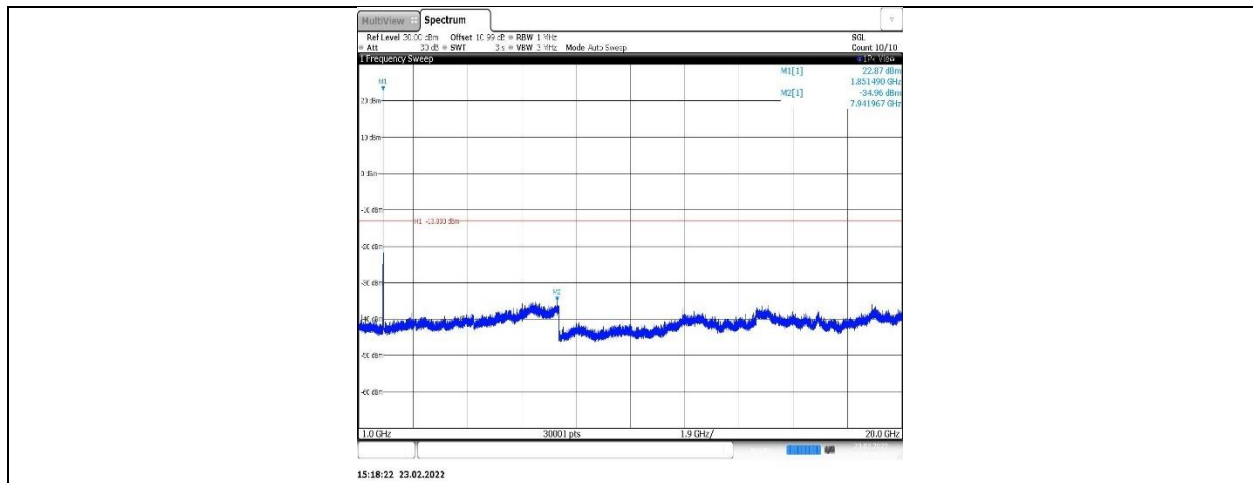
-60.00 dBm

-70.00 dBm

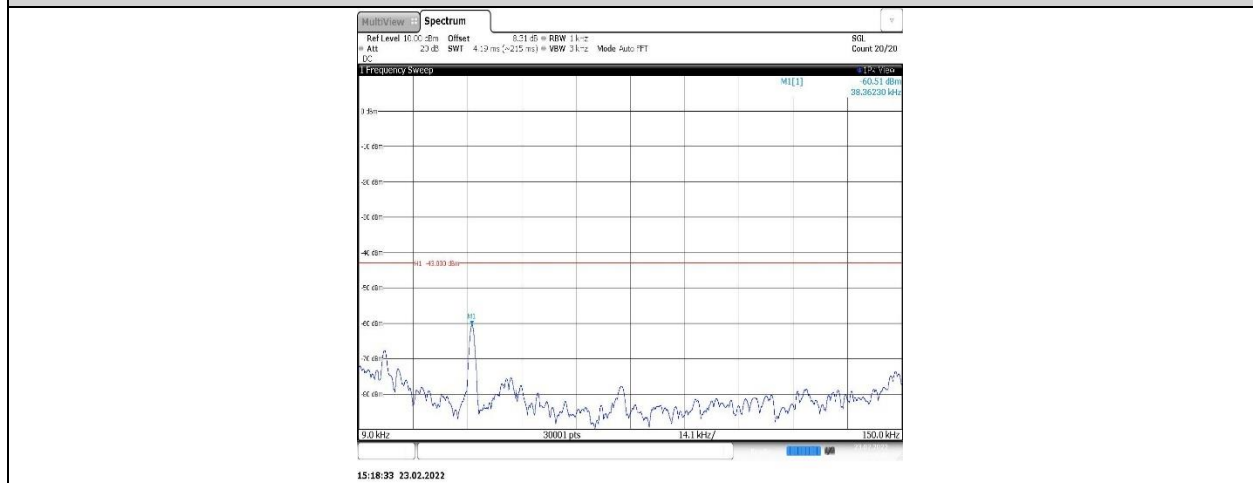
30.0 MHz 30001 pts 97.0 MHz 1.0 GHz

15:17:35 23.02.2022

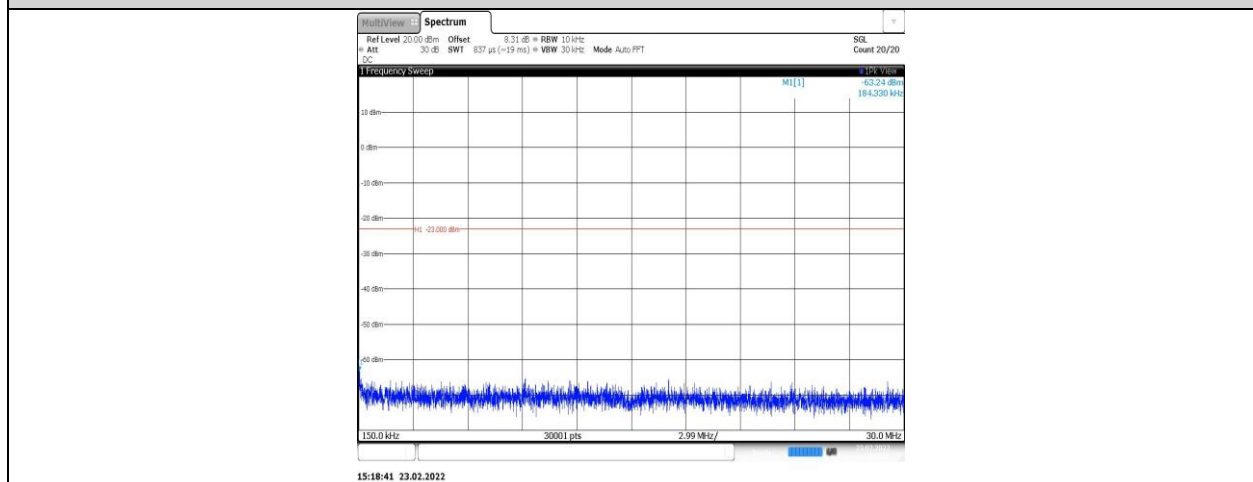
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 (Guangzhou) Co., Ltd, Song Shan Lake Branch*



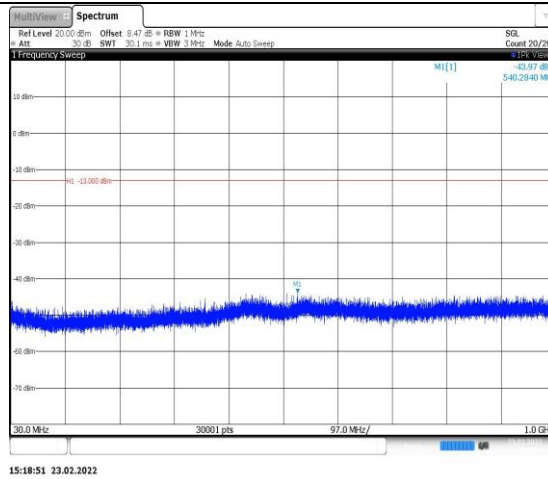
Band2-9262-1-1000~20000MHz



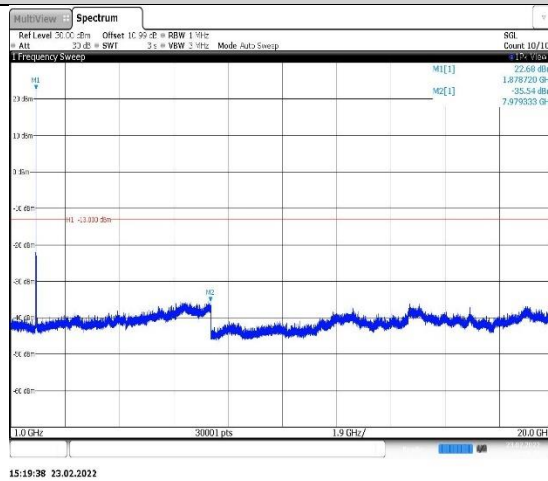
Band2-9400-1-0.009~0.15MHz



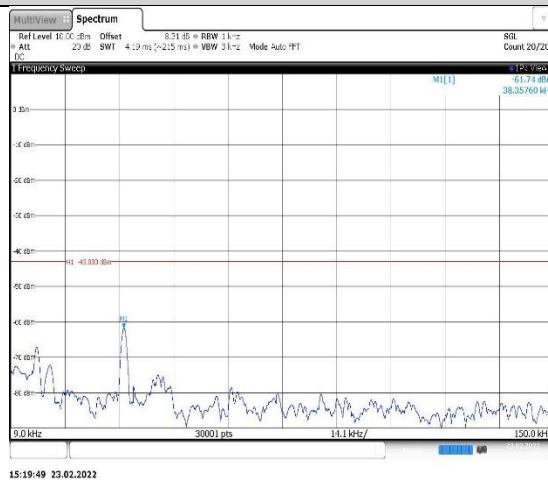
Band2-9400-1-0.15~30MHz



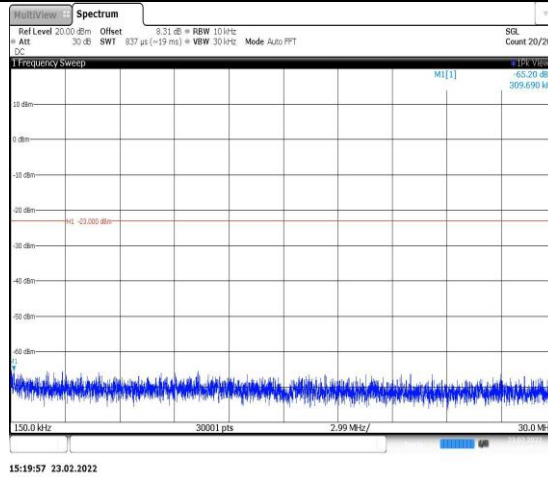
Band2-9400-1-30~1000MHz



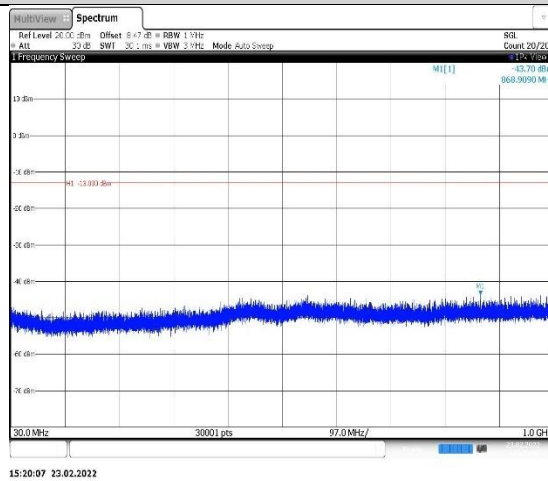
Band2-9400-1-1000~20000MHz



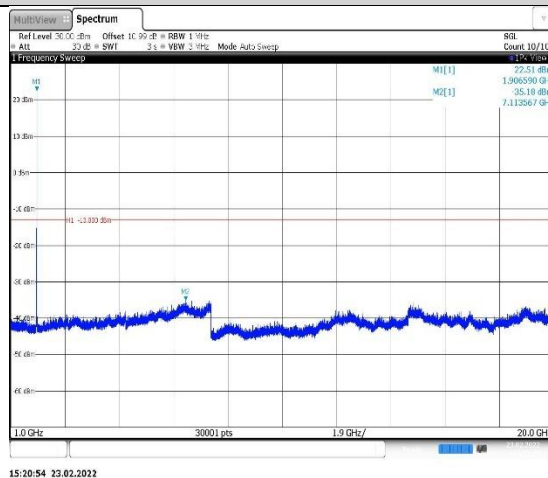
Band2-9538-1-0.009~0.15MHz



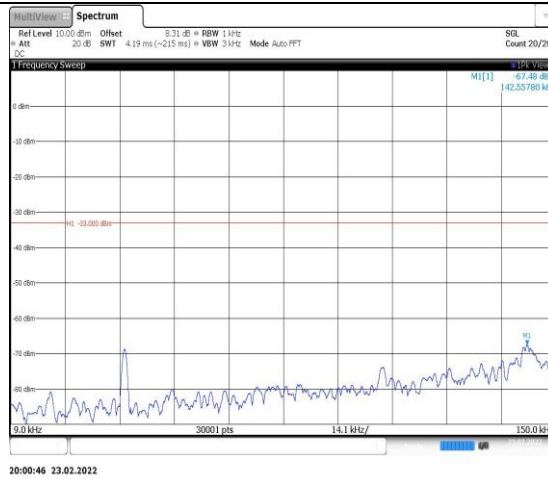
Band2-9538-1-0.15~30MHz



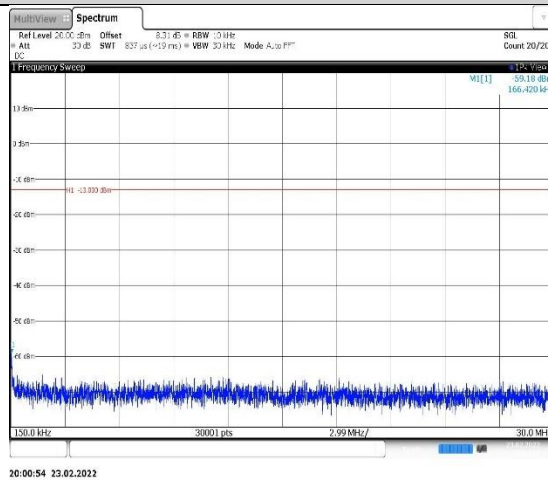
Band2-9538-1-30~1000MHz



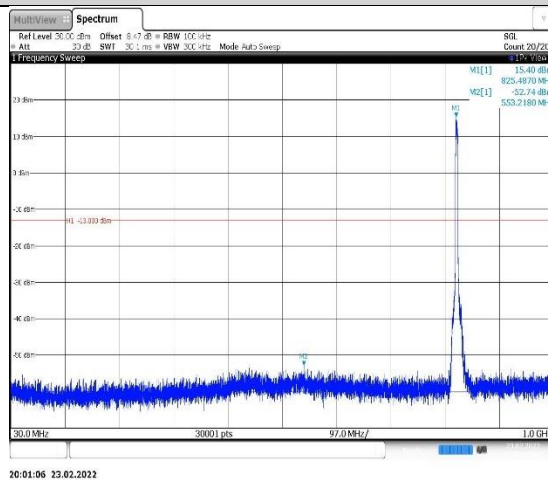
Band2-9538-1-1000~20000MHz



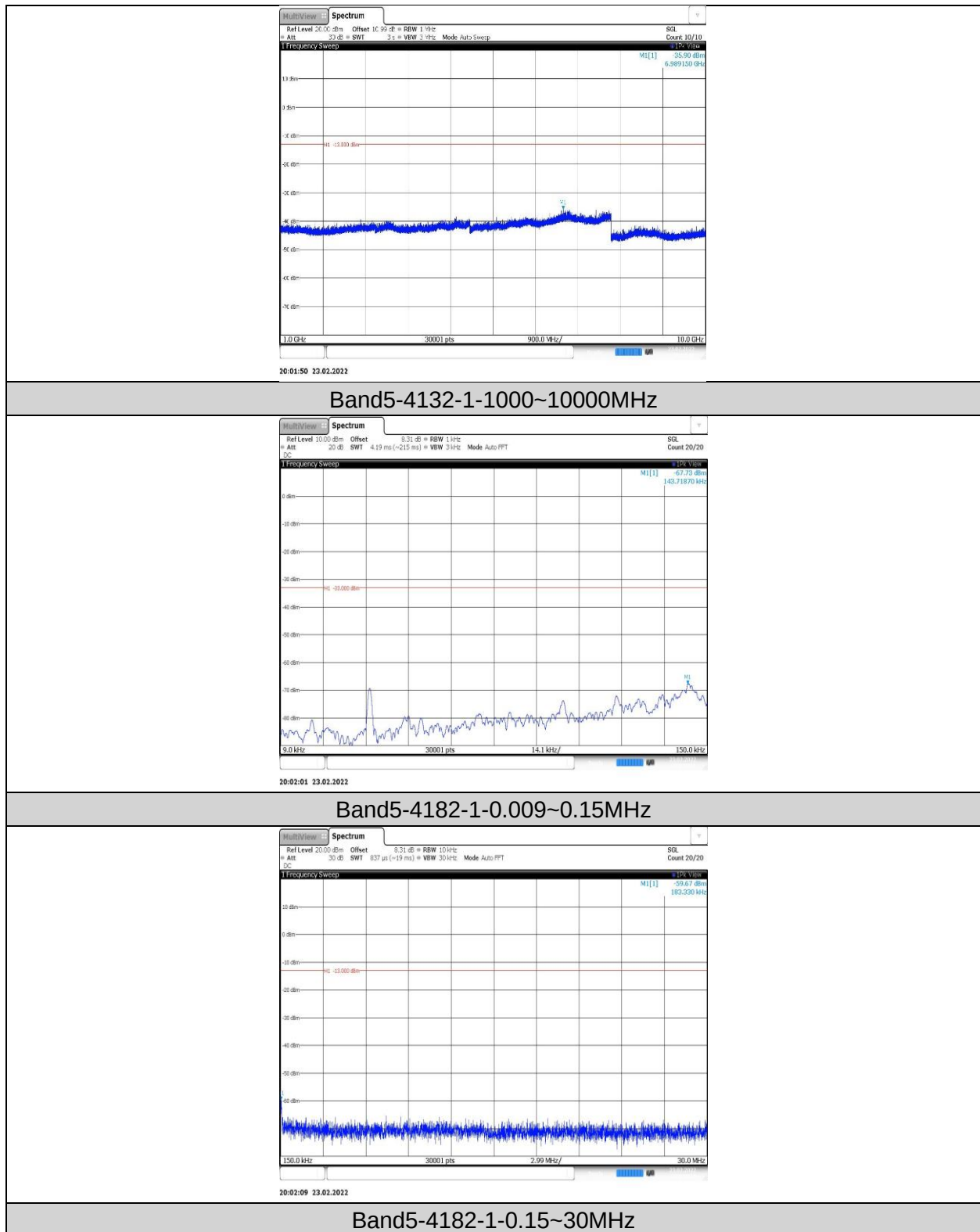
Band5-4132-1-0.009~0.15MHz

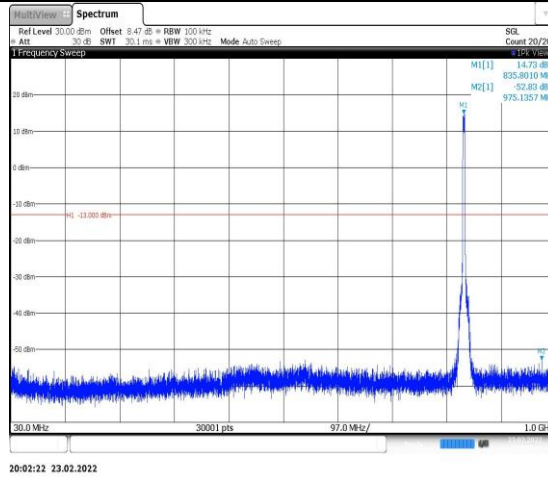


Band5-4132-1-0.15~30MHz

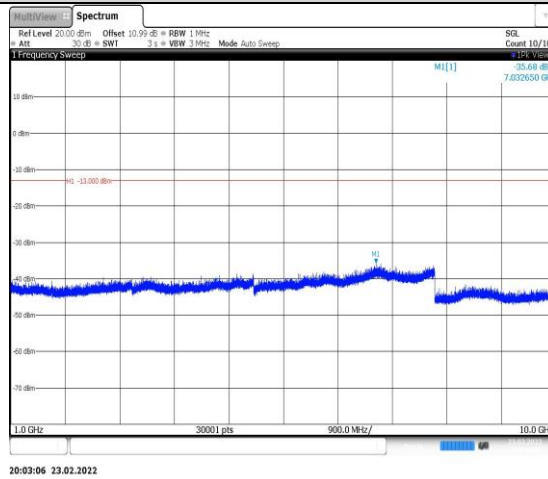


Band5-4132-1-30~1000MHz

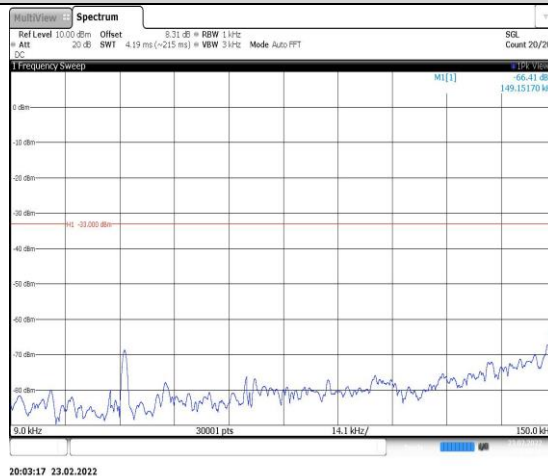




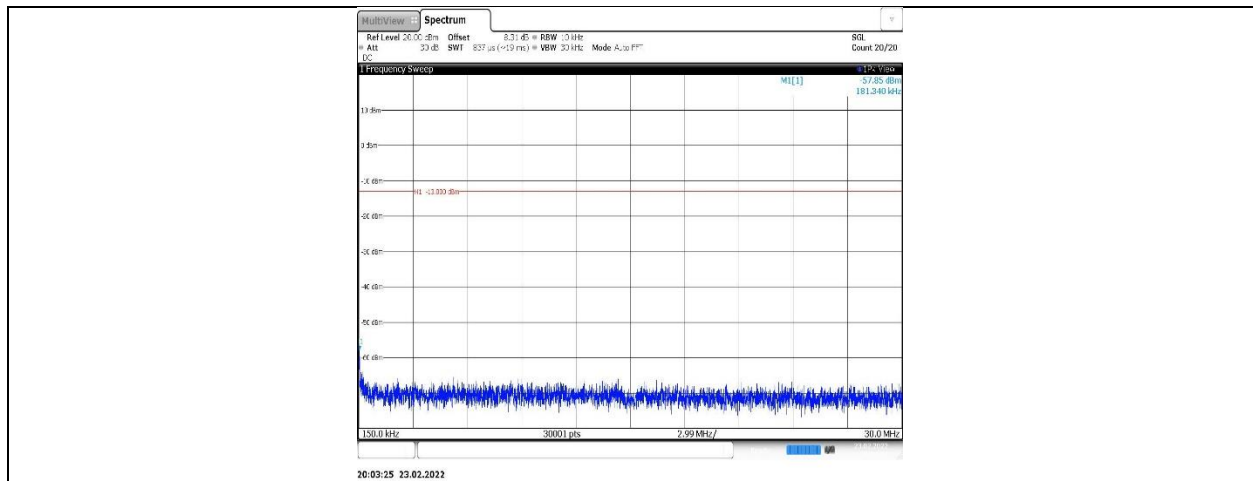
Band5-4182-1-30~1000MHz



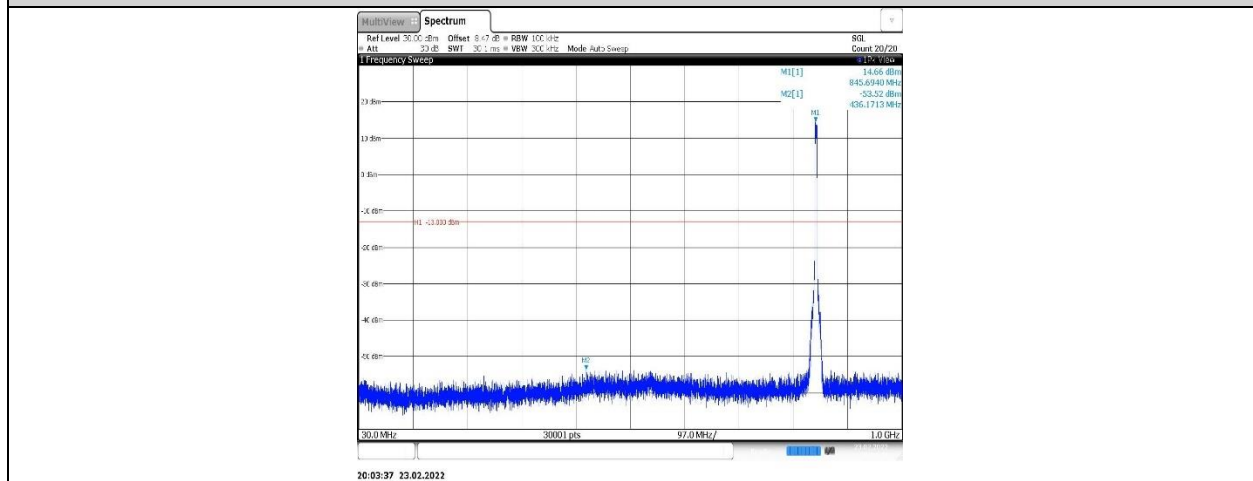
Band5-4182-1-1000~10000MHz



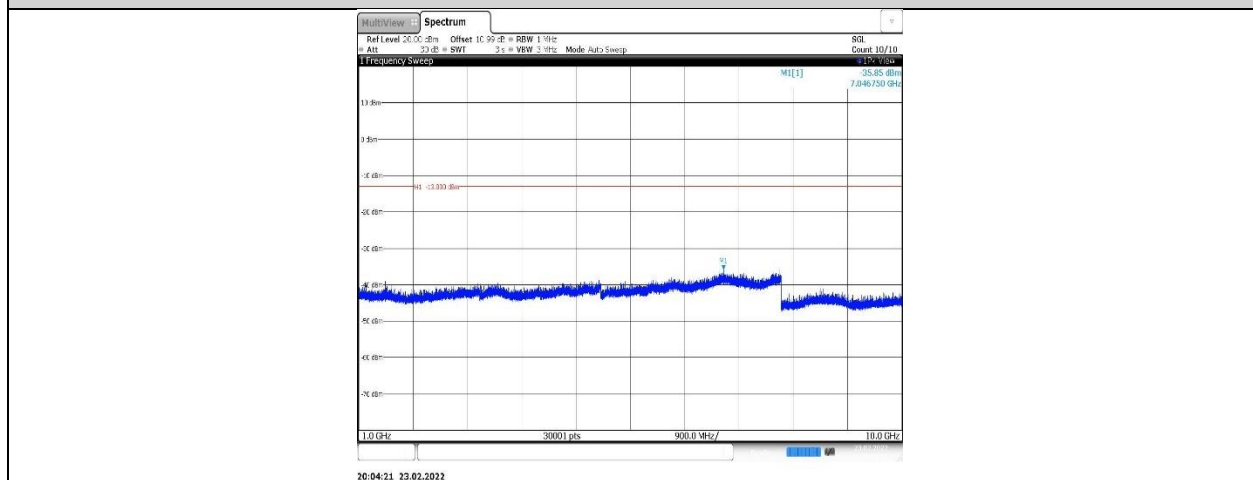
Band5-4233-1-0.009~0.15MHz



Band5-4233-1-0.15~30MHz



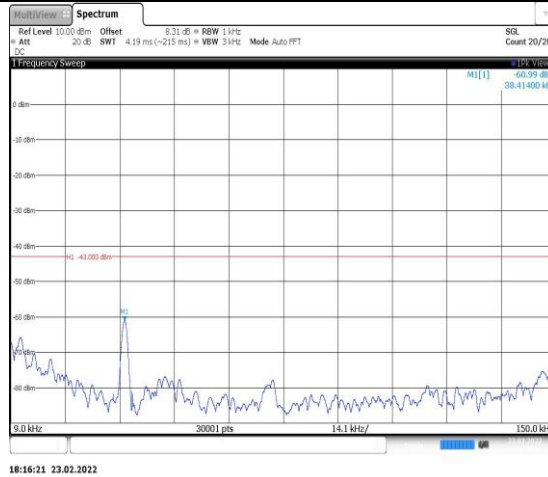
Band5-4233-1-30~1000MHz



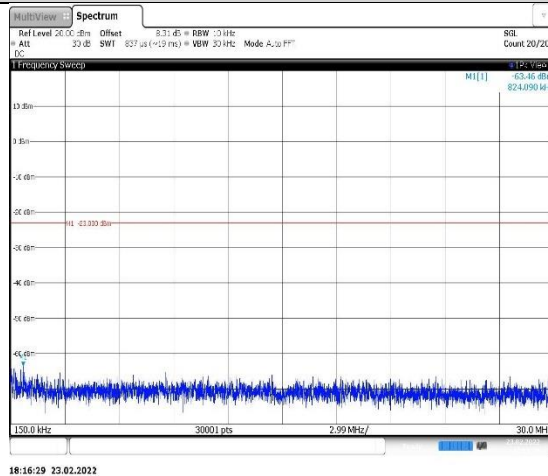
Band5-4233-1-1000~10000MHz



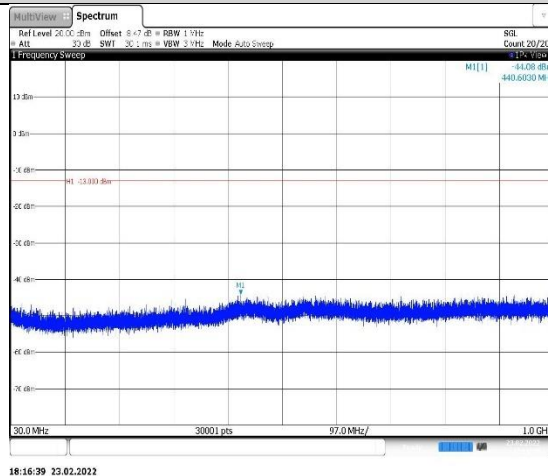
HSUPA



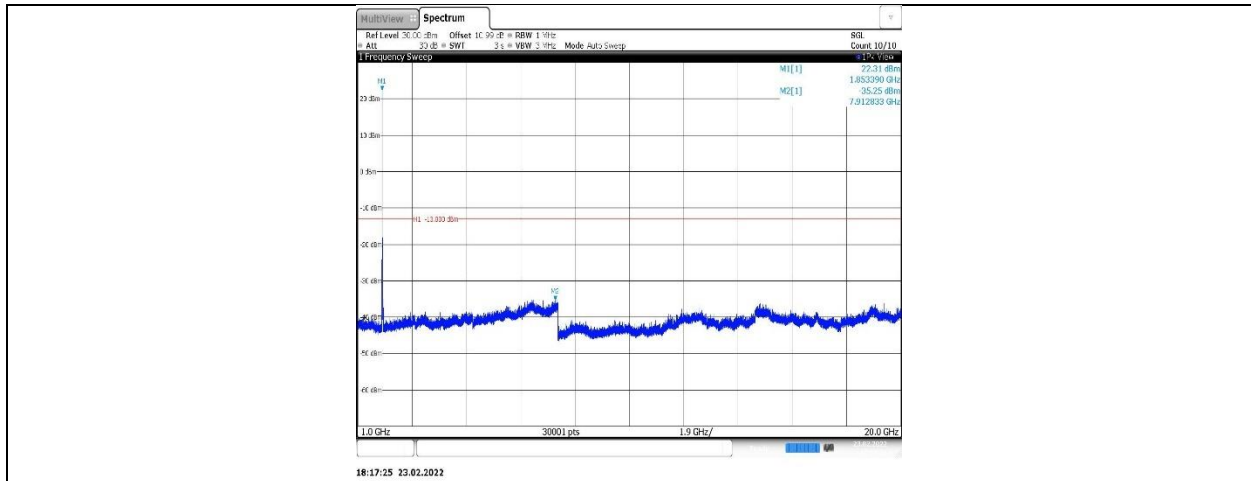
Band2-9262-1-0.009~0.15MHz



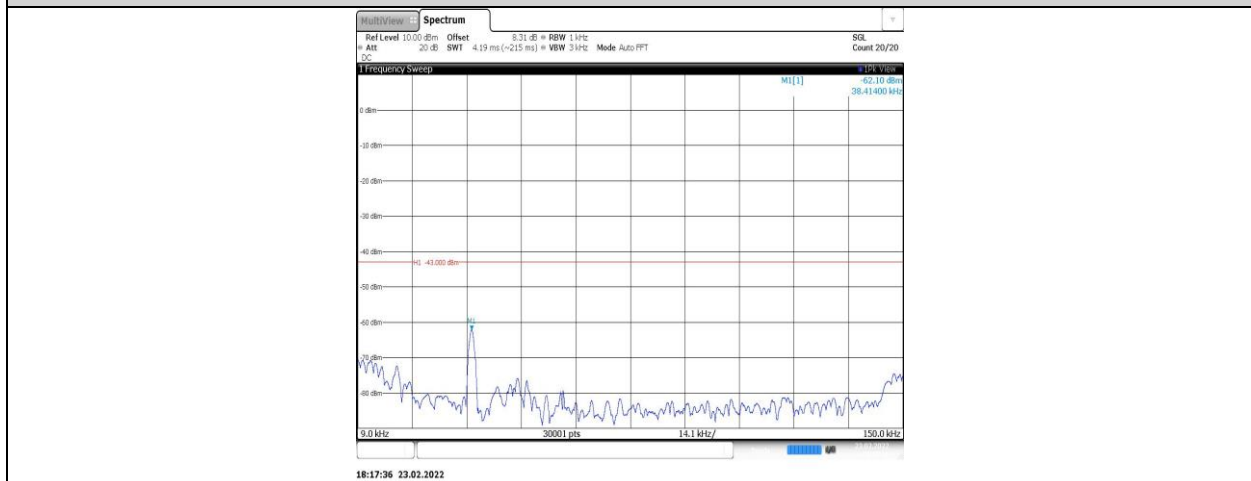
Band2-9262-1-0.15~30MHz



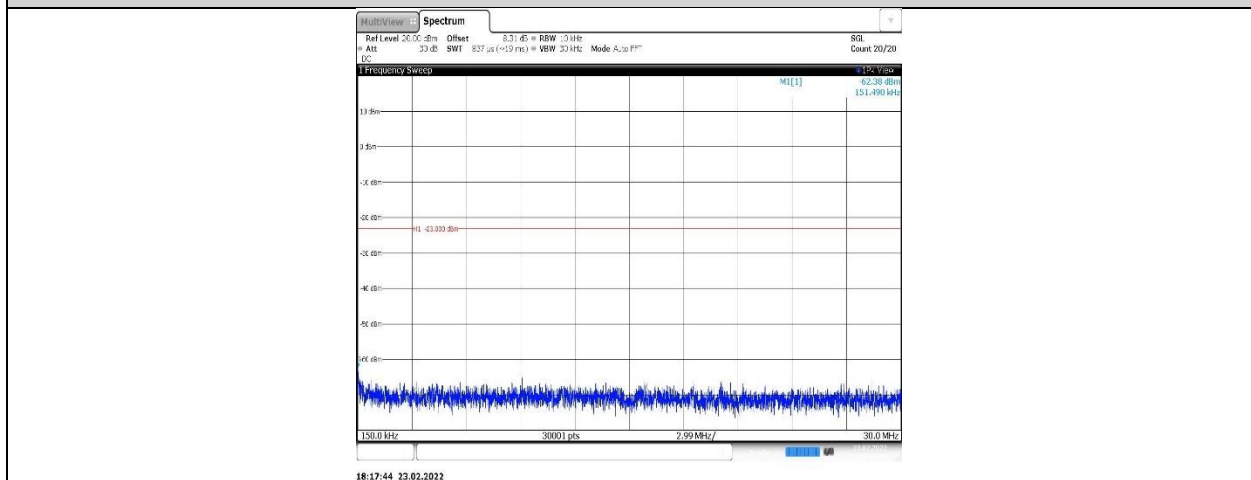
Band2-9262-1-30~1000MHz



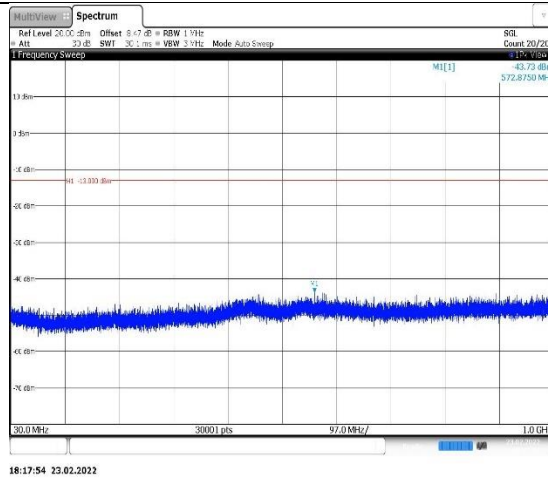
Band2-9262-1-1000~20000MHz



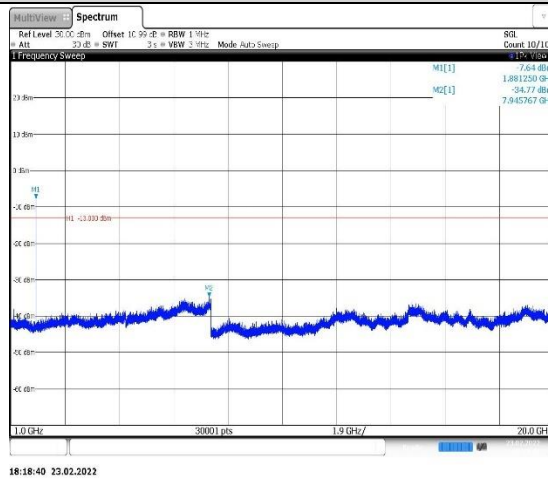
Band2-9400-1-0.009~0.15MHz



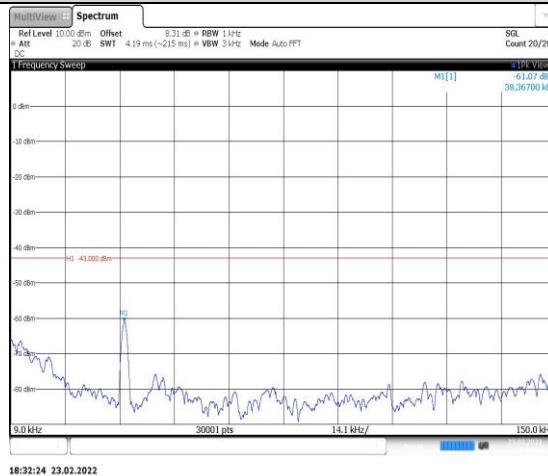
Band2-9400-1-0.15~30MHz



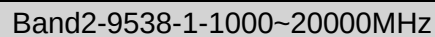
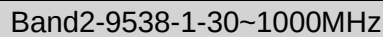
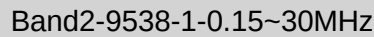
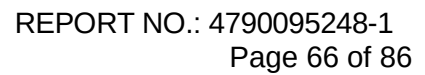
Band2-9400-1-30~1000MHz

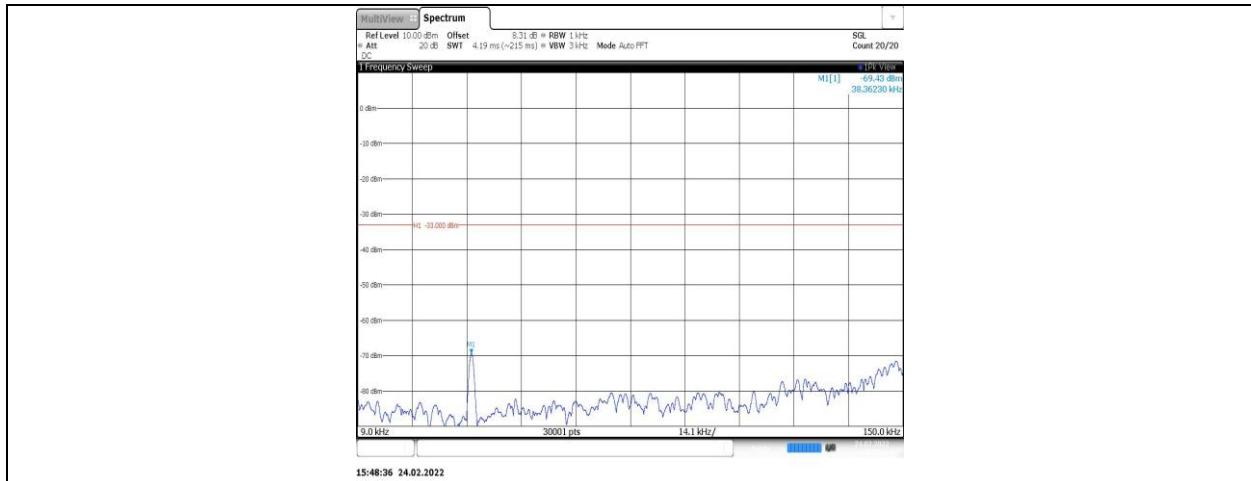


Band2-9400-1-1000~20000MHz

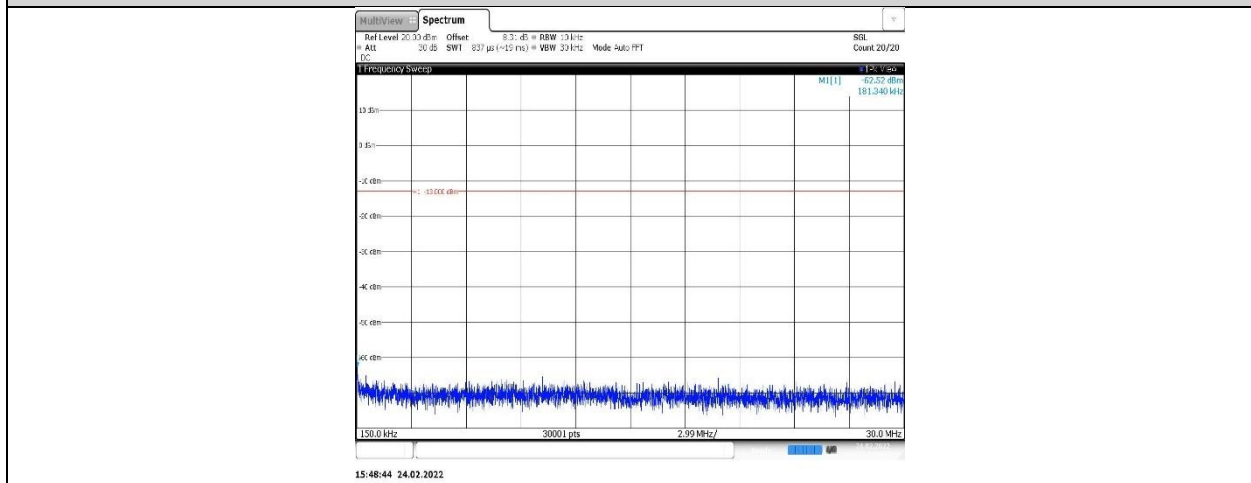


Band2-9538-1-0.009~0.15MHz

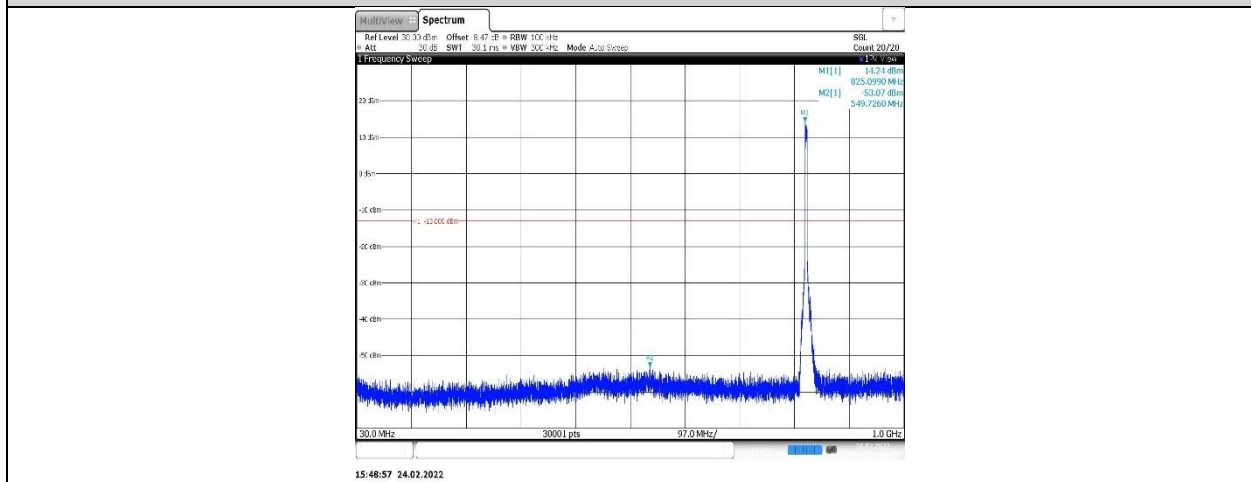




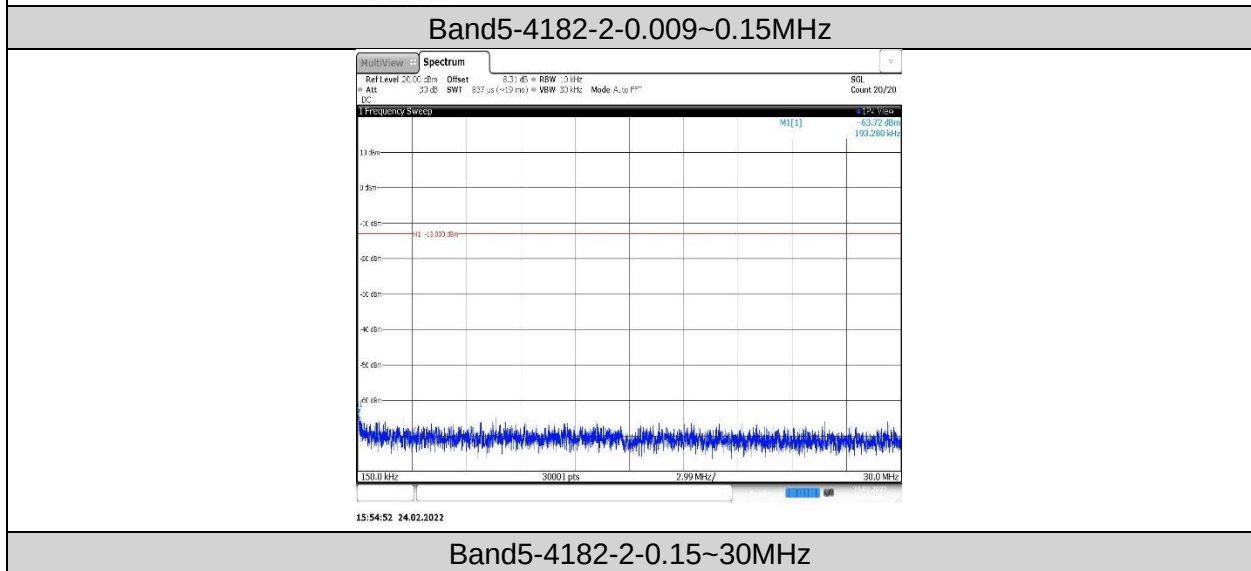
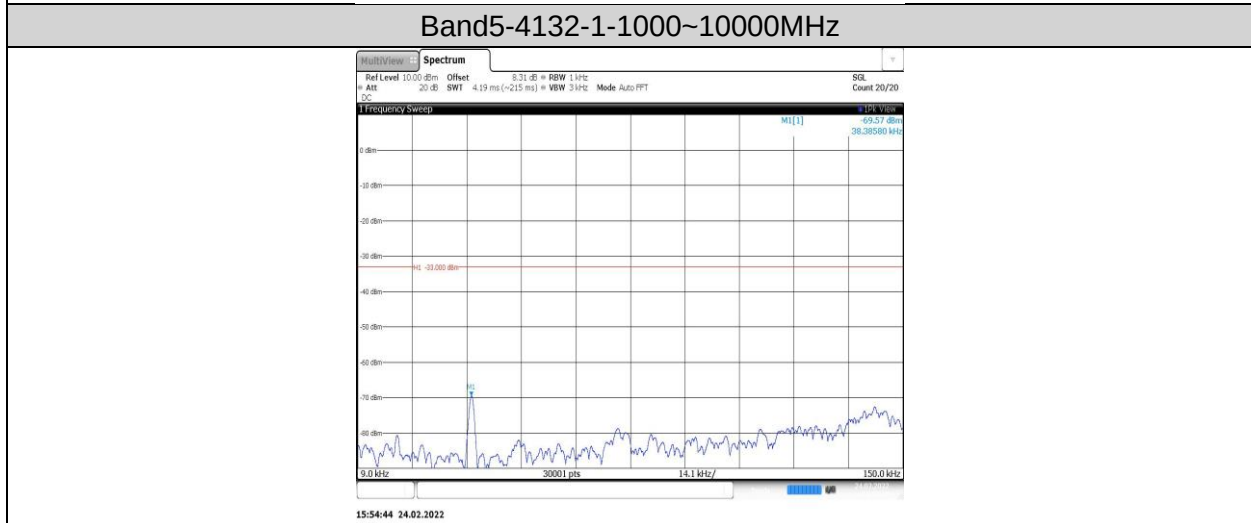
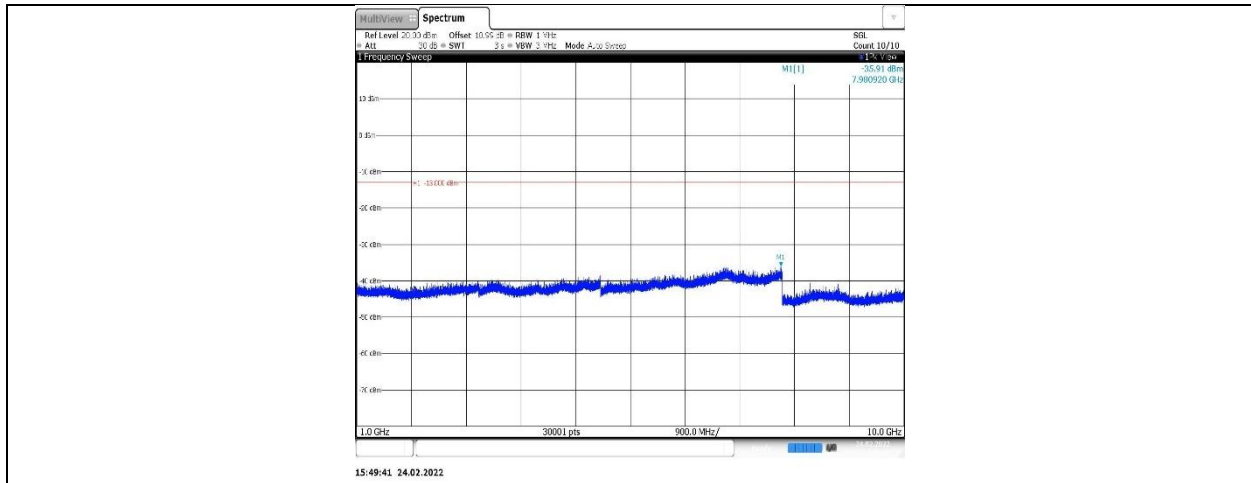
Band5-4132-1-0.009~0.15MHz

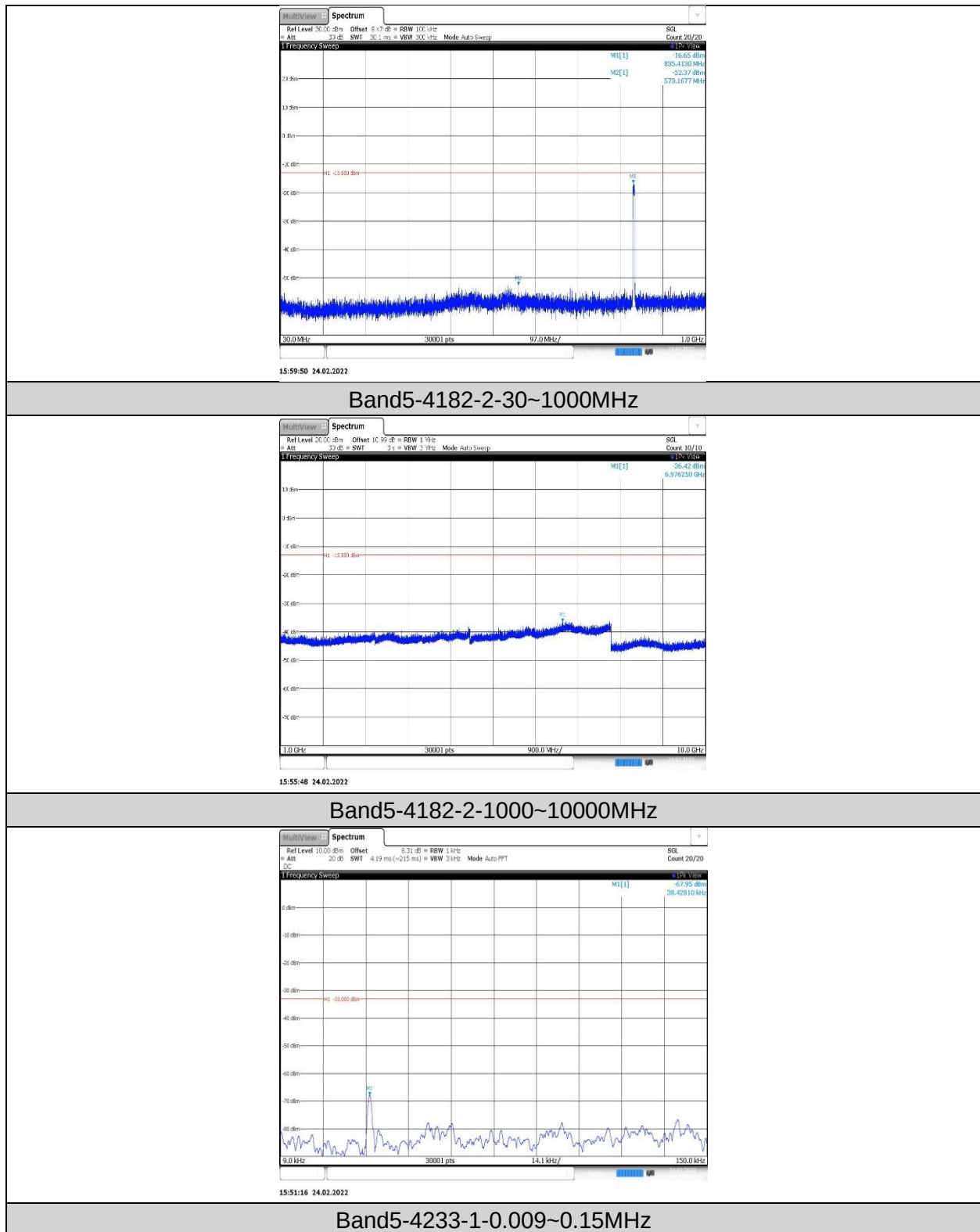


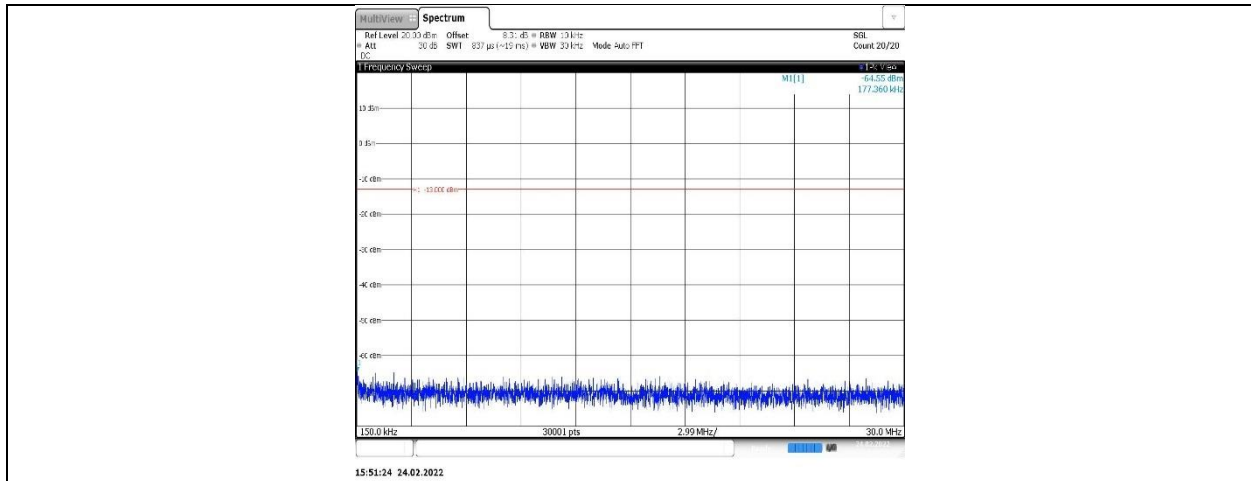
Band5-4132-1-0.15~30MHz



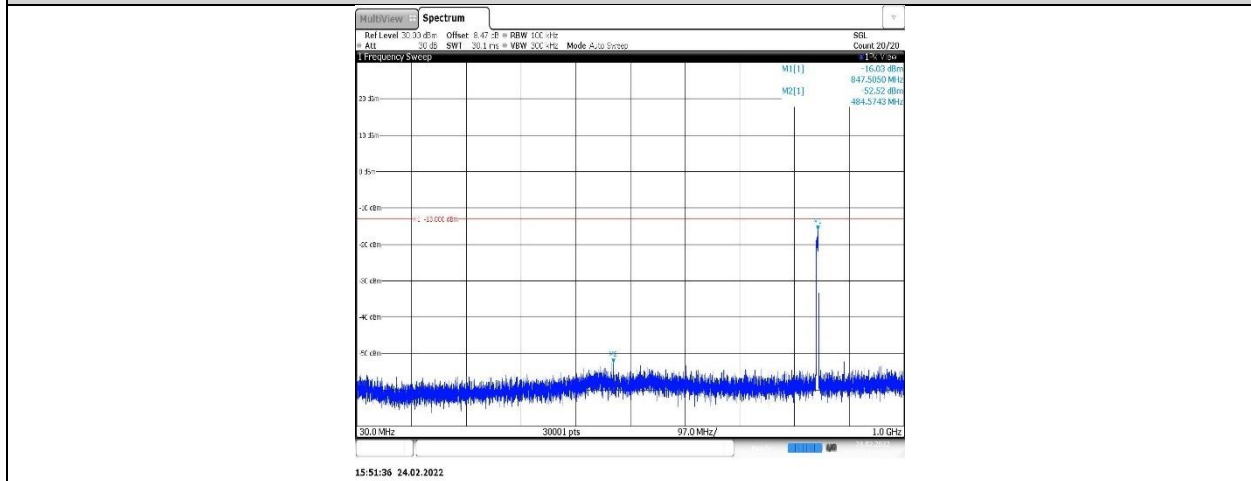
Band5-4132-1-30~1000MHz



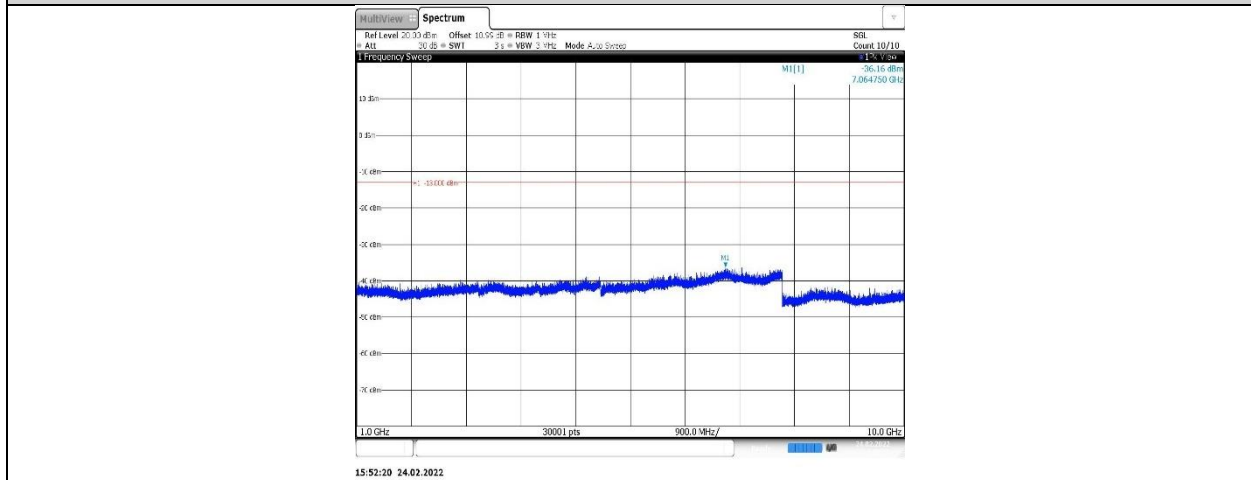




Band5-4233-1-0.15~30MHz



Band5-4233-1-30~1000MHz



Band5-4233-1-1000~10000MHz



7.6. FREQUENCY STABILITY

Rule Part:

FCC: §2.1055, §22.355, §24.235, §27.54, §90,
RSS-132, RSS-133, RSS-139

LIMITS

§22.355 - The carrier frequency shall not depart from the reference frequency in excess of ± 2.5 ppm for mobile stations.

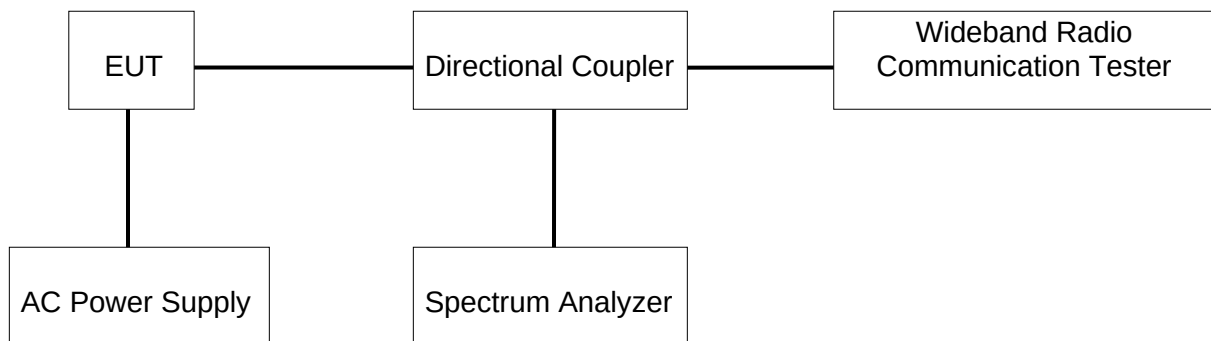
§24.235 and §27.54 - The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

TEST PROCEDURE

Refer to KDB 971168 D01 Power Meas License Digital Systems v03r01.

	Normal Test Conditions	Extreme Test Conditions
Relative Humidity	45 % - 75 %	/
Atmospheric Pressure	100 kPa ~102 kPa	/
Temperature	T_N (Normal Temperature): 25.1 °C	T_L (Low Temperature): -30 °C
		T_H (High Temperature): 50 °C
Supply Voltage	V_N (Normal Voltage): 120V	V_L (Low Voltage): DC 102 V
		V_H (High Voltage): DC 138 V

TEST SETUP



TEST ENVIRONMENT

Temperature	22.7°C	Relative Humidity	65.6%
Atmosphere Pressure	101kPa	Test Voltage	/



RESULTS

GSM

Voltage							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	128	VL	NT	5.75	0.006976	±2.5	PASS
		VN		0.03	0.000036	±2.5	PASS
		VH		-6.10	-0.007401	±2.5	PASS
	190	VL		3.03	0.003622	±2.5	PASS
		VN		2.58	0.003130	±2.5	PASS
		VH		3.81	0.004623	±2.5	PASS
	251	VL		0.48	0.000566	±2.5	PASS
		VN		-0.84	-0.000990	±2.5	PASS
		VH		-0.81	-0.000954	±2.5	PASS
EGPRS850	128	VL	NT	2.58	0.003130	±2.5	PASS
		VN		3.81	0.004623	±2.5	PASS
		VH		2.68	0.003252	±2.5	PASS
	190	VL		-2.81	-0.003359	±2.5	PASS
		VN		1.61	0.001924	±2.5	PASS
		VH		1.29	0.001542	±2.5	PASS
	251	VL		5.59	0.006586	±2.5	PASS
		VN		-4.00	-0.004713	±2.5	PASS
		VH		1.16	0.001367	±2.5	PASS
GPRS1900	512	VL	NT	8.62	0.004659	±2.5	PASS
		VN		5.04	0.002724	±2.5	PASS
		VH		2.65	0.001432	±2.5	PASS
	661	VL		-3.20	-0.001702	±2.5	PASS
		VN		3.55	0.001888	±2.5	PASS
		VH		4.58	0.002436	±2.5	PASS
	810	VL		6.20	0.003246	±2.5	PASS
		VN		13.40	0.007016	±2.5	PASS
		VH		12.27	0.006425	±2.5	PASS
EGPRS1900	512	VL	NT	-4.81	-0.002600	±2.5	PASS
		VN		-0.39	-0.000211	±2.5	PASS
		VH		11.78	0.006367	±2.5	PASS
	661	VL		-0.97	-0.000516	±2.5	PASS
		VN		-0.71	-0.000378	±2.5	PASS
		VH		-5.13	-0.002729	±2.5	PASS
	810	VL		-5.13	-0.002686	±2.5	PASS
		VN		-9.30	-0.004870	±2.5	PASS
		VH		-2.62	-0.001372	±2.5	PASS



Temperature							
Band	Channel	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
GPRS850	128	NV	-30	-6.46	-0.007838	±2.5	PASS
			-20	-2.00	-0.002427	±2.5	PASS
			-10	-0.71	-0.000861	±2.5	PASS
			0	0.61	0.000740	±2.5	PASS
			10	-1.74	-0.002111	±2.5	PASS
			20	0.16	0.000194	±2.5	PASS
			30	-2.52	-0.003058	±2.5	PASS
			40	-1.19	-0.001444	±2.5	PASS
			50	-7.88	-0.009561	±2.5	PASS
	190	NV	-30	2.91	0.001524	±2.5	PASS
			-20	1.13	0.000611	±2.5	PASS
			-10	-1.68	-0.002008	±2.5	PASS
			0	2.68	0.003203	±2.5	PASS
			10	-2.23	-0.002666	±2.5	PASS
			20	-4.26	-0.005092	±2.5	PASS
			30	6.91	0.008260	±2.5	PASS
			40	-3.20	-0.003825	±2.5	PASS
			50	-3.94	-0.004710	±2.5	PASS
	251	NV	-30	-1.13	-0.001331	±2.5	PASS
			-20	1.45	0.001708	±2.5	PASS
			-10	2.16	0.002545	±2.5	PASS
			0	6.84	0.008058	±2.5	PASS
			10	6.49	0.007646	±2.5	PASS
			20	6.46	0.007611	±2.5	PASS
			30	5.20	0.006126	±2.5	PASS
			40	2.07	0.002439	±2.5	PASS
			50	2.71	0.003193	±2.5	PASS
EGPRS850	128	NV	-30	-1.94	-0.002354	±2.5	PASS
			-20	0.74	0.000898	±2.5	PASS
			-10	0.65	0.000789	±2.5	PASS
			0	5.07	0.006151	±2.5	PASS
			10	-1.19	-0.001444	±2.5	PASS
			20	1.13	0.001371	±2.5	PASS
			30	3.36	0.004077	±2.5	PASS
			40	1.29	0.001565	±2.5	PASS
			50	-1.78	-0.002160	±2.5	PASS
	190	NV	-30	-1.68	-0.002008	±2.5	PASS
			-20	2.68	0.003203	±2.5	PASS
			-10	-2.23	-0.002666	±2.5	PASS
			0	-4.26	-0.005092	±2.5	PASS
			10	6.91	0.008260	±2.5	PASS
			20	-3.20	-0.003825	±2.5	PASS
			30	-3.94	-0.004710	±2.5	PASS
			40	4.29	0.005128	±2.5	PASS
			50	2.29	0.002737	±2.5	PASS



	251	NV	-30	5.07	0.005973	±2.5	PASS
			-20	1.00	0.001178	±2.5	PASS
			-10	4.88	0.005749	±2.5	PASS
			0	1.45	0.001708	±2.5	PASS
			10	2.78	0.003275	±2.5	PASS
			20	3.65	0.004300	±2.5	PASS
			30	0.81	0.000954	±2.5	PASS
			40	0.36	0.000424	±2.5	PASS
			50	1.55	0.001826	±2.5	PASS
GPRS1900	512	NV	-30	4.75	0.002567	±2.5	PASS
			-20	6.20	0.003351	±2.5	PASS
			-10	5.52	0.002983	±2.5	PASS
			0	3.65	0.001973	±2.5	PASS
			10	2.00	0.001081	±2.5	PASS
			20	0.71	0.000384	±2.5	PASS
			30	-1.74	-0.000940	±2.5	PASS
			40	-3.58	-0.001935	±2.5	PASS
			50	5.62	0.003038	±2.5	PASS
	661	NV	-30	10.49	0.005580	±2.5	PASS
			-20	-7.20	-0.003830	±2.5	PASS
			-10	-5.55	-0.002952	±2.5	PASS
			0	-5.13	-0.002729	±2.5	PASS
			10	-5.00	-0.002660	±2.5	PASS
			20	-7.30	-0.003883	±2.5	PASS
			30	-5.42	-0.002883	±2.5	PASS
			40	-9.30	-0.004947	±2.5	PASS
			50	-10.56	-0.005617	±2.5	PASS
	810	NV	-30	-3.07	-0.001607	±2.5	PASS
			-20	-0.97	-0.000508	±2.5	PASS
			-10	0.58	0.000304	±2.5	PASS
			0	0.00	0.000000	±2.5	PASS
			10	-0.94	-0.000492	±2.5	PASS
			20	-1.52	-0.000796	±2.5	PASS
			30	-1.87	-0.000979	±2.5	PASS
			40	-2.55	-0.001335	±2.5	PASS
			50	-3.68	-0.001927	±2.5	PASS
EGPRS1900	512	NV	-30	12.14	0.006561	±2.5	PASS
			-20	-6.52	-0.003524	±2.5	PASS
			-10	11.11	0.006005	±2.5	PASS
			0	2.03	0.001097	±2.5	PASS
			10	5.20	0.002811	±2.5	PASS
			20	1.84	0.000994	±2.5	PASS
			30	9.17	0.004956	±2.5	PASS
			40	6.65	0.003594	±2.5	PASS
			50	-2.91	-0.001573	±2.5	PASS
	661	NV	-30	6.17	0.003282	±2.5	PASS
			-20	-6.59	-0.003505	±2.5	PASS
			-10	-4.88	-0.002596	±2.5	PASS



			0	-7.30	-0.003883	±2.5	PASS
			10	-6.91	-0.003676	±2.5	PASS
			20	-8.94	-0.004755	±2.5	PASS
			30	4.71	0.002505	±2.5	PASS
			40	0.23	0.000122	±2.5	PASS
			50	-8.85	-0.004707	±2.5	PASS
	810	NV	-30	0.10	0.000052	±2.5	PASS
			-20	-7.17	-0.003754	±2.5	PASS
			-10	1.16	0.000607	±2.5	PASS
			0	-0.19	-0.000099	±2.5	PASS
			10	-11.66	-0.006105	±2.5	PASS
			20	-10.11	-0.005294	±2.5	PASS
			30	4.84	0.002534	±2.5	PASS
			40	-9.78	-0.005121	±2.5	PASS
			50	8.36	0.004377	±2.5	PASS

**WCDMA (only worst case recorded)**

Voltage							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	VL	NT	33.56	0.018117	±2.5	PASS
		VN		14.51	0.007833	±2.5	PASS
		VH		36.10	0.019488	±2.5	PASS
	9400	VL		30.64	0.016298	±2.5	PASS
		VN		30.55	0.016250	±2.5	PASS
		VH		25.96	0.013809	±2.5	PASS
	9538	VL		-37.30	-0.019553	±2.5	PASS
		VN		-35.08	-0.018390	±2.5	PASS
		VH		-25.86	-0.013556	±2.5	PASS
Band5	4132	VL	NT	27.07	0.014613	±2.5	PASS
		VN		42.61	0.022665	±2.5	PASS
		VH		21.29	0.011324	±2.5	PASS
	4182	VL		42.34	0.022521	±2.5	PASS
		VN		30.08	0.016000	±2.5	PASS
		VH		14.61	0.007771	±2.5	PASS
	4233	VL		-23.60	-0.012372	±2.5	PASS
		VN		-39.05	-0.020471	±2.5	PASS
		VH		-41.41	-0.021708	±2.5	PASS

Temperature							
Band	Channel	Voltage (Vdc)	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Limit (ppm)	Verdict
Band2	9262	NV	-30	29.23	0.015780	±2.5	PASS
			-20	43.46	0.023461	±2.5	PASS
			-10	29.93	0.016157	±2.5	PASS
			0	17.07	0.009215	±2.5	PASS
			10	38.74	0.020913	±2.5	PASS
			20	15.08	0.008141	±2.5	PASS
			30	27.07	0.014613	±2.5	PASS
			40	42.61	0.022665	±2.5	PASS
			50	21.29	0.011324	±2.5	PASS
	9400	NV	-30	41.85	0.022261	±2.5	PASS
			-20	18.56	0.009872	±2.5	PASS
			-10	30.08	0.016000	±2.5	PASS
			0	14.61	0.007771	±2.5	PASS
			10	-23.60	-0.012372	±2.5	PASS
			20	-39.05	-0.020471	±2.5	PASS
			30	-41.41	-0.021708	±2.5	PASS
			40	-35.40	-0.018557	±2.5	PASS
			50	-21.29	-0.011161	±2.5	PASS
	9538	NV	-30	33.79	0.017713	±2.5	PASS
			-20	25.19	0.013205	±2.5	PASS
			-10	-46.86	-0.025297	±2.5	PASS
			0	-26.49	-0.014300	±2.5	PASS



Band5			10	-18.89	-0.010198	±2.5	PASS
			20	-9.26	-0.004999	±2.5	PASS
			30	-15.31	-0.008265	±2.5	PASS
			40	-0.09	-0.000049	±2.5	PASS
			50	39.43	0.021286	±2.5	PASS
	4132	NV	-30	2.20	0.002662	±2.5	PASS
			-20	-10.68	-0.012924	±2.5	PASS
			-10	-44.22	-0.023181	±2.5	PASS
			0	-16.62	-0.020111	±2.5	PASS
			10	-0.54	-0.000653	±2.5	PASS
			20	-4.79	-0.005796	±2.5	PASS
			30	-8.28	-0.010019	±2.5	PASS
			40	-11.24	-0.013601	±2.5	PASS
			50	-44.22	-0.023181	±2.5	PASS
	4182	NV	-30	-0.09	-0.000108	±2.5	PASS
			-20	-0.55	-0.000657	±2.5	PASS
			-10	-0.29	-0.000347	±2.5	PASS
			0	-0.36	-0.000430	±2.5	PASS
			10	-0.23	-0.000275	±2.5	PASS
			20	-0.45	-0.000538	±2.5	PASS
			30	-0.19	-0.000227	±2.5	PASS
			40	-0.23	-0.000275	±2.5	PASS
	4233	NV	50	-0.43	-0.000514	±2.5	PASS
			-30	-3.45	-0.004075	±2.5	PASS
			-20	-3.73	-0.004406	±2.5	PASS
			-10	-33.42	-0.017519	±2.5	PASS
			0	-48.09	-0.025210	±2.5	PASS
			10	-8.66	-0.004540	±2.5	PASS
			20	-11.60	-0.006081	±2.5	PASS
			30	-26.94	-0.014122	±2.5	PASS
			40	-30.60	-0.016041	±2.5	PASS
			50	-33.42	-0.017519	±2.5	PASS



8. RADIATED SPURIOUS EMISSIONS

RULE PART(S)

FCC: §2.1053, §22.917, §24.238, §27.53, §90,

LIMIT

Part §22.917(a), §24.238(a), §27.53(h)

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log (P)$ dB.

RSS-132 section 5.5

Mobile and base station equipment shall comply with the limits in (i) and (ii) below.

(i) In the first 1.0 MHz band immediately outside and adjacent to each of the sub-bands specified in Section 5.1, the power of emissions per any 1% of the occupied bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).

(ii) After the first 1.0 MHz immediately outside and adjacent to each of the sub-bands, the power of emissions in any 100 kHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the occupied bandwidth, power integration over 100 kHz is required.

RSS-133 section 6.5.1

Equipment shall comply with the limits in (i) and (ii) below.

(i) In the 1.0 MHz bands immediately outside and adjacent to the equipment's operating frequency block, the emission power per any 1% of the emission bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts).

(ii) After the first 1.0 MHz, the emission power in any 1 MHz bandwidth shall be attenuated (in dB) below the transmitter output power P (dBW) by at least $43 + 10 \log_{10} p$ (watts). If the measurement is performed using 1% of the emission bandwidth, power integration over 1.0 MHz is required.

RSS-139 section 6.6

(i) In the first 1.0 MHz bands immediately outside and adjacent to the equipment's smallest operating frequency block,² which can contain the equipment's occupied bandwidth, the emission power per any 1% of the emission bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.

(ii) After the first 1.0 MHz outside the equipment's smallest operating frequency block, which can contain the equipment's occupied bandwidth, the emission power in any 1 MHz bandwidth shall be attenuated below the transmitter output power P (in dBW) by at least $43 + 10 \log_{10} p$ (watts) dB.



TEST PROCEDURE

According to the C 63.26-2015 section 5.5.2.2.3

Below 1GHz test procedure as below:

For radiated emissions measurements performed at frequencies less than or equal to 1 GHz, the EUT shall be placed on a RF-transparent table or support at a nominal height of 80 cm above the reference ground plane. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The measurement antenna shall be varied from 1 m to 4 m in height above the reference ground in a search for the relative positioning that produces the maximum radiated signal level (i.e., field strength or received power). When orienting the measurement antenna in vertical polarization, the minimum height of the lowest element of the antenna shall clear the site reference ground plane by at least 25 cm.

Above 1GHz test procedure as below:

For radiated measurements performed at frequencies above 1 GHz, the EUT shall be placed on an RF transparent table or support at a nominal height of 1.5 m above the ground plane. Radiated measurements shall be made with the measurement antenna positioned in both horizontal and vertical polarization. The height scan of the measurement antenna shall be varied from 1 m to 4 m in a search for the relative positioning that produces the maximum radiated signal level (i.e., field strength or received power). When using the direct field strength method and the EUT is manipulated through three different orientations, then the scan height range of the measurement antenna is limited to 2.5 m, or 0.5 m above the top of the EUT, whichever is higher.

Radiated Power Measurement Calculation According to ANSI C63.26-2015

- a) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dB}\mu\text{V)} + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$.
 - b) $E \text{ (dB}\mu\text{V/m)} = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$.
 - c) $E \text{ (dB}\mu\text{V/m)} = \text{EIRP (dBm)} - 20\log(D) + 104.8$; where D is the measurement distance (in the far field region) in m.
 - d) $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 20\log(D) - 104.8$; where D is the measurement distance (in the far field region) in m.
- So, from d)
The measuring distance is usually at 3m, then $20 \cdot \log(3) = 9.5424$
Then, $\text{EIRP (dBm)} = E \text{ (dB}\mu\text{V/m)} + 9.5424 - 104.8 = E \text{ (dB}\mu\text{V/m)} - 95.2576$

The limit line is derived from $43 + 10\log(P)\text{dB}$ below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)}$
 $= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}$.

$$\begin{aligned}\text{EIRP [dBm]} &= E[\text{dB}\mu\text{V/m}] - 95.2 \\ E[\text{dB}\mu\text{V/m}] &= 95.2 + \text{EIRP [dBm]} \\ E[\text{dB}\mu\text{V/m}] &= 82.20\end{aligned}$$

NOTE 1: Radiated spurious emissions were investigated below 30 MHz, 30 MHz – 1 GHz and above 1 GHz. There were no emissions found on below 30 MHz and 30 MHz – 1 GHz. Although these tests were performed other than open area test site, adequate comparison measurements were confirmed against 30 m open area test site. Therefore sufficient tests were made to demonstrate that the alternative site produces results that correlate with the one of tests made in an open field based on KDB 414788.

NOTE 2: Please refer to section 5.4 for bandwidth and RB setting about LTE bands.

Test Setup for Below 1 GHz



Temperature	23.2°C	Relative Humidity	65.3%
Atmosphere Pressure	101kPa	Test Voltage	DC 3.8 V

**RESULTS**

GSM 850

GPRS- Low Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2494.000	47.06	-8.84	38.22	82.25	-44.03	peak
3871.000	43.57	-4.48	39.09	82.25	-43.16	peak
5986.000	37.63	2.16	39.79	82.25	-42.46	peak
8110.000	39.78	7.98	47.76	82.25	-34.49	peak
8947.000	38.22	9.55	47.77	82.25	-34.48	peak
9757.000	36.89	10.34	47.23	82.25	-35.02	peak

GPRS- Low Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1459.000	49.08	-12.79	36.29	82.25	-45.96	peak
2467.000	48.58	-8.91	39.67	82.25	-42.58	peak
3997.000	44.94	-4.71	40.23	82.25	-42.02	peak
5662.000	39.99	1.44	41.43	82.25	-40.82	peak
7642.000	39.02	6.96	45.98	82.25	-36.27	peak
9001.000	37.24	10.12	47.36	82.25	-34.89	peak

GPRS- Mid Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2512.000	53.32	-8.80	44.52	82.25	-37.73	peak
4996.000	48.12	-0.51	47.61	82.25	-34.64	peak
6751.000	45.79	4.56	50.35	82.25	-31.90	peak
8506.000	42.71	7.84	50.55	82.25	-31.70	peak
7498.000	43.88	6.92	50.80	82.25	-31.45	peak
6004.000	47.25	2.20	49.45	82.25	-32.80	peak

GPRS- Mid Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1999.000	52.86	-11.19	41.67	82.25	-40.58	peak
2503.000	53.17	-8.81	44.36	82.25	-37.89	peak
3502.000	48.96	-5.81	43.15	82.25	-39.10	peak
4996.000	48.36	-0.51	47.85	82.25	-34.40	peak
6751.000	42.04	4.56	46.60	82.25	-35.65	peak
8506.000	42.48	7.84	50.32	82.25	-31.93	peak

GPRS- High Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1693.000	51.08	-11.43	39.65	82.25	-42.60	peak
3502.000	45.12	-5.81	39.31	82.25	-42.94	peak
4501.000	45.17	-2.23	42.94	82.25	-39.31	peak
5500.000	41.41	1.17	42.58	82.25	-39.67	peak
7849.000	39.96	7.48	47.44	82.25	-34.81	peak
8983.000	37.85	9.94	47.79	82.25	-34.46	peak

GPRS- High Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
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1495.000	50.79	-12.56	38.23	82.25	-44.02	peak
3997.000	44.75	-4.71	40.04	82.25	-42.21	peak
4501.000	44.15	-2.23	41.92	82.25	-40.33	peak
5500.000	41.36	1.17	42.53	82.25	-39.72	peak
7498.000	37.83	6.92	44.75	82.25	-37.50	peak
8506.000	37.94	7.84	45.78	82.25	-36.47	peak

GSM 1900**GPRS- Low Channel- Horizontal**

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5805.000	41.93	2.50	44.43	82.25	-37.82	peak
7485.000	38.83	7.61	46.44	82.25	-35.81	peak
9390.000	38.64	10.73	49.37	82.25	-32.88	peak
10260.000	37.92	12.22	50.14	82.25	-32.11	peak
13605.000	34.79	19.06	53.85	82.25	-28.40	peak
16605.000	33.49	17.75	51.24	82.25	-31.01	peak

GPRS- Low Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
6000.000	43.75	2.90	46.65	82.25	-35.60	peak
8610.000	40.24	8.50	48.74	82.25	-33.51	peak
10005.000	37.34	11.56	48.90	82.25	-33.35	peak
11745.000	35.98	17.06	53.04	82.25	-29.21	peak
14685.000	35.77	17.46	53.23	82.25	-29.02	peak
17325.000	31.97	21.37	53.34	82.25	-28.91	peak

GPRS- Mid Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3900.000	47.92	-3.97	43.95	82.25	-38.30	peak
6000.000	46.50	2.90	49.40	82.25	-32.85	peak
8505.000	39.92	8.43	48.35	82.25	-33.90	peak
11505.000	36.07	16.45	52.52	82.25	-29.73	peak
13965.000	32.75	19.34	52.09	82.25	-30.16	peak
17325.000	30.24	21.37	51.61	82.25	-30.64	peak

GPRS- Mid Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
3900.000	49.15	-3.97	45.18	82.25	-37.07	peak
6000.000	44.39	2.90	47.29	82.25	-34.96	peak
10005.000	37.37	11.56	48.93	82.25	-33.32	peak
12630.000	35.42	17.08	52.50	82.25	-29.75	peak
14775.000	33.02	17.54	50.56	82.25	-31.69	peak
17085.000	31.30	20.27	51.57	82.25	-30.68	peak

GPRS- High Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5490.000	42.73	2.31	45.04	82.25	-37.21	peak
8130.000	39.51	9.44	48.95	82.25	-33.30	peak
10380.000	37.56	12.67	50.23	82.25	-32.02	peak
11400.000	35.95	16.38	52.33	82.25	-29.92	peak
13560.000	37.53	19.12	56.65	82.25	-25.60	peak
16890.000	34.34	19.63	53.97	82.25	-28.28	peak

GPRS- High Channel- Vertical

Frequency	Reading	Correct	Result	Limit	Margin	Remark
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(MHz)	(dBuV)	(dB/m)	(dBuV/m)	(dBuV/m)	(dB)	
4995.000	46.33	0.70	47.03	82.25	-35.22	peak
7845.000	39.11	8.51	47.62	82.25	-34.63	peak
10605.000	37.84	13.28	51.12	82.25	-31.13	peak
11760.000	35.30	17.04	52.34	82.25	-29.91	peak
14190.000	31.72	18.92	50.64	82.25	-31.61	peak
16905.000	33.55	19.72	53.27	82.25	-28.98	peak

**WCDMA Band 2****HSDPA- Low Channel- Horizontal**

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5970.000	40.48	3.06	43.54	82.25	-38.71	peak
8610.000	42.78	8.50	51.28	82.25	-30.97	peak
10530.000	37.52	12.98	50.50	82.25	-31.75	peak
11865.000	36.24	17.14	53.38	82.25	-28.87	peak
14985.000	34.61	16.67	51.28	82.25	-30.97	peak
16965.000	31.77	19.61	51.38	82.25	-30.87	peak

HSDPA- Low Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
8445.000	37.78	8.55	46.33	82.25	-35.92	peak
11685.000	37.66	17.02	54.68	82.25	-27.57	peak
13665.000	33.73	19.33	53.06	82.25	-29.19	peak
16605.000	33.45	17.75	51.20	82.25	-31.05	peak
10230.000	37.89	12.13	50.02	82.25	-32.23	peak
6060.000	41.93	2.79	44.72	82.25	-37.53	peak

HSDPA- Mid Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5640.000	42.17	2.00	44.17	82.25	-38.08	peak
8985.000	39.65	10.48	50.13	82.25	-32.12	peak
11070.000	37.60	14.67	52.27	82.25	-29.98	peak
12330.000	37.55	17.48	55.03	82.25	-27.22	peak
13965.000	32.41	19.34	51.75	82.25	-30.50	peak
16515.000	33.33	17.36	50.69	82.25	-31.56	peak

HSDPA- Mid Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5640.000	42.49	2.00	44.49	82.25	-37.76	peak
7890.000	41.37	8.28	49.65	82.25	-32.60	peak
9000.000	38.84	10.77	49.61	82.25	-32.64	peak
11820.000	36.69	17.03	53.72	82.25	-28.53	peak
13920.000	36.56	19.30	55.86	82.25	-26.39	peak
17700.000	32.32	23.33	55.65	82.25	-26.60	peak

HSDPA- High Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5730.000	39.92	2.17	42.09	82.25	-40.16	peak
8115.000	39.07	9.50	48.57	82.25	-33.68	peak
9930.000	36.22	11.57	47.79	82.25	-34.46	peak
11745.000	36.51	17.06	53.57	82.25	-28.68	peak
14010.000	34.38	19.32	53.70	82.25	-28.55	peak
17685.000	30.10	23.18	53.28	82.25	-28.97	peak



HSDPA- High Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
5640.000	40.27	2.00	42.27	82.25	-39.98	peak
8085.000	39.35	9.33	48.68	82.25	-33.57	peak
9360.000	38.57	10.54	49.11	82.25	-33.14	peak
11835.000	39.27	17.07	56.34	82.25	-25.91	peak
13950.000	34.35	19.33	53.68	82.25	-28.57	peak
16995.000	32.24	19.55	51.79	82.25	-30.46	peak

WCDMA Band 5

HSDPA- Low Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2485.000	46.20	-8.85	37.35	82.25	-44.90	peak
4186.000	42.01	-2.87	39.14	82.25	-43.11	peak
5248.000	40.57	0.85	41.42	82.25	-40.83	peak
6382.000	39.13	3.25	42.38	82.25	-39.87	peak
8263.000	38.98	8.46	47.44	82.25	-34.81	peak
9001.000	38.14	10.12	48.26	82.25	-33.99	peak

HSDPA- Low Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2494.000	44.62	-8.84	35.78	82.25	-46.47	peak
3808.000	42.23	-4.37	37.86	82.25	-44.39	peak
4870.000	40.76	-0.60	40.16	82.25	-42.09	peak
6625.000	37.95	4.51	42.46	82.25	-39.79	peak
7885.000	39.44	7.38	46.82	82.25	-35.43	peak
8992.000	36.93	10.04	46.97	82.25	-35.28	peak

HSDPA- Mid Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1675.000	47.27	-11.53	35.74	82.25	-46.51	peak
3601.000	43.74	-5.29	38.45	82.25	-43.80	peak
5104.000	40.74	0.21	40.95	82.25	-41.30	peak
6040.000	41.32	2.19	43.51	82.25	-38.74	peak
7660.000	40.16	7.04	47.20	82.25	-35.05	peak
9577.000	37.26	10.47	47.73	82.25	-34.52	peak

HSDPA- Mid Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1963.000	48.14	-11.11	37.03	82.25	-45.22	peak
3178.000	46.28	-6.65	39.63	82.25	-42.62	peak
4870.000	43.75	-0.60	43.15	82.25	-39.10	peak
5995.000	40.73	2.19	42.92	82.25	-39.33	peak
7183.000	40.40	6.01	46.41	82.25	-35.84	peak
8956.000	39.28	9.65	48.93	82.25	-33.32	peak



HSDPA- High Channel- Horizontal

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
2566.000	47.66	-8.71	38.95	82.25	-43.30	peak
3601.000	44.26	-5.29	38.97	82.25	-43.28	peak
4798.000	44.48	-0.65	43.83	82.25	-38.42	peak
5932.000	42.56	1.94	44.50	82.25	-37.75	peak
7273.000	37.86	6.42	44.28	82.25	-37.97	peak
9577.000	38.12	10.47	48.59	82.25	-33.66	peak

HSDPA- High Channel- Vertical

Frequency (MHz)	Reading (dBuV)	Correct (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1747.000	48.64	-11.10	37.54	82.25	-44.71	peak
3610.000	43.65	-5.24	38.41	82.25	-43.84	peak
4708.000	42.63	-1.11	41.52	82.25	-40.73	peak
5671.000	41.24	1.44	42.68	82.25	-39.57	peak
7723.000	40.62	7.29	47.91	82.25	-34.34	peak
9397.000	39.32	10.12	49.44	82.25	-32.81	peak

END OF REPORT