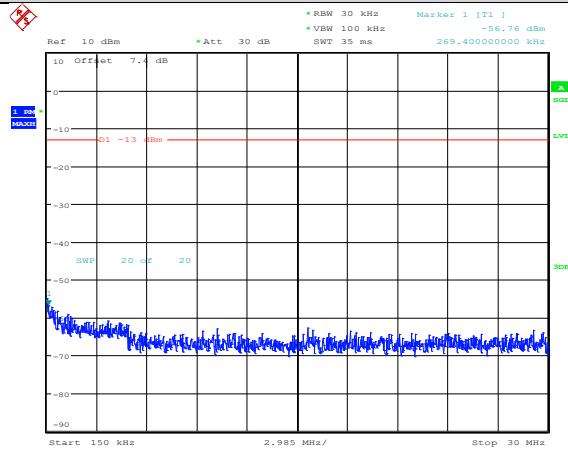
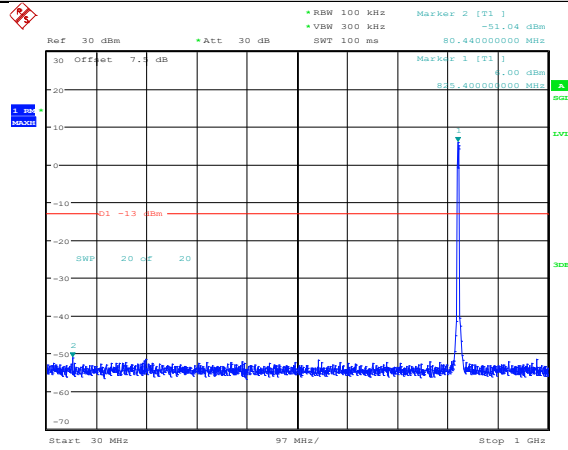


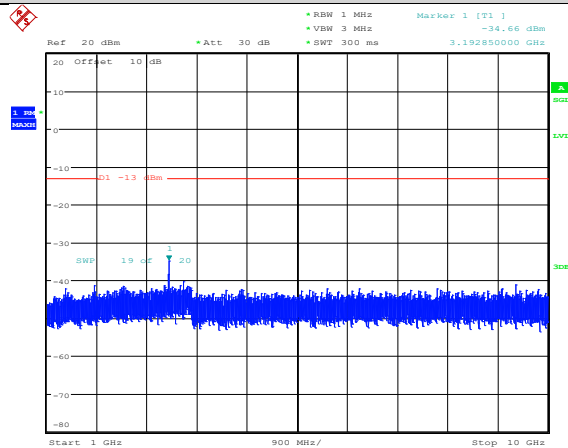
Band5-4132-1-0.15~30MHz



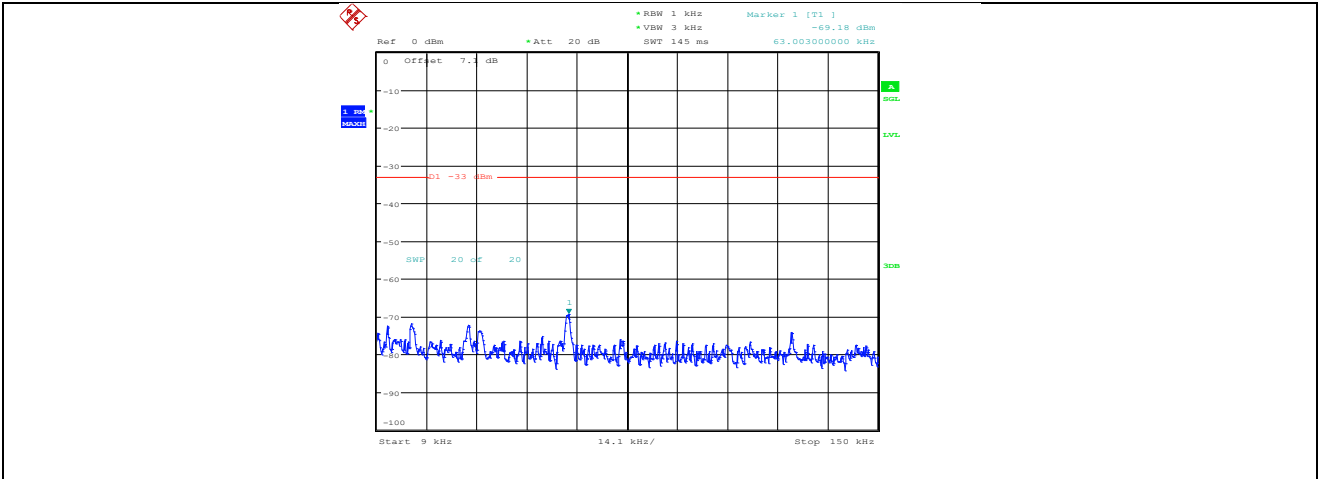
Band5-4132-1-30~1000MHz



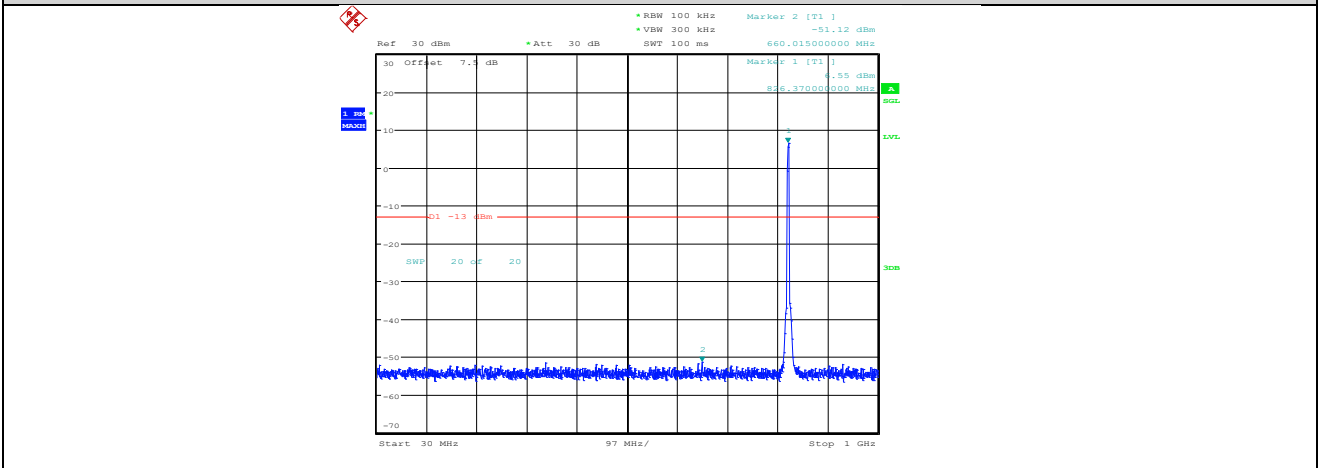
Band5-4132-1-1000~10000MHz



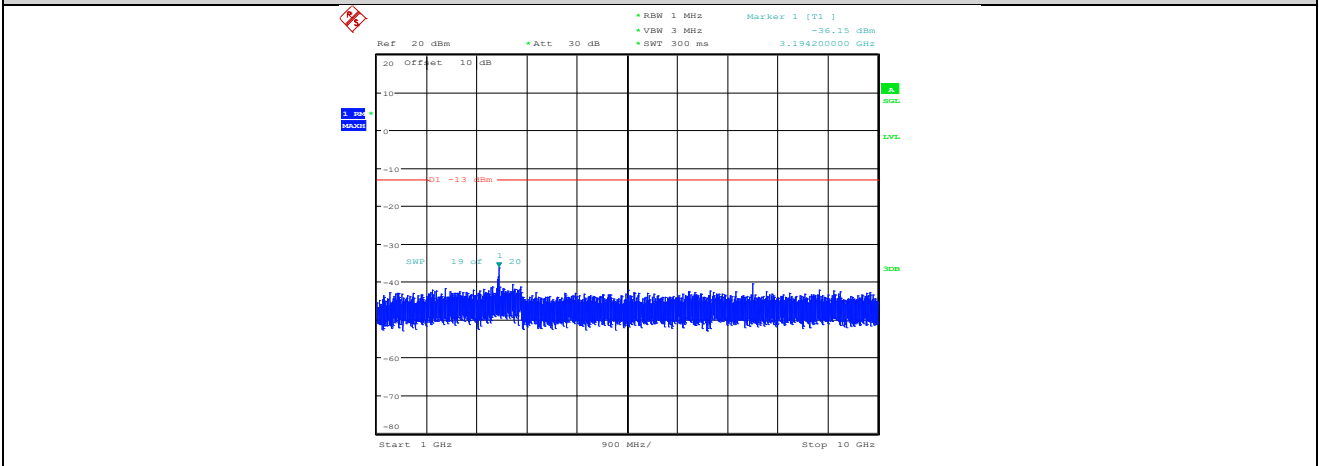
Band5-4132-1-0.009~0.15MHz



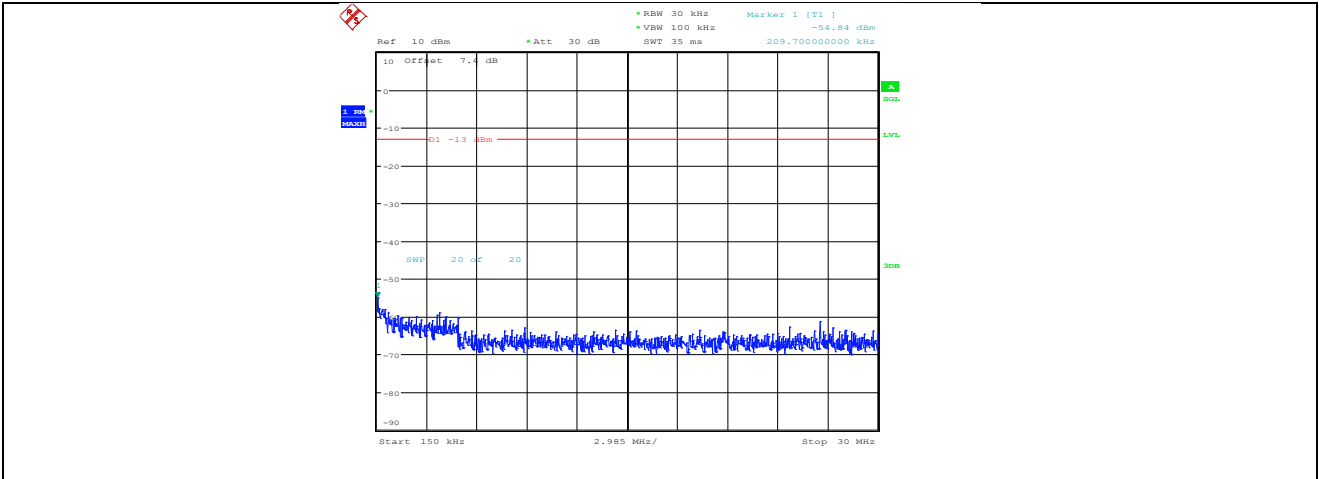
Band5-4132-2-30~1000MHz



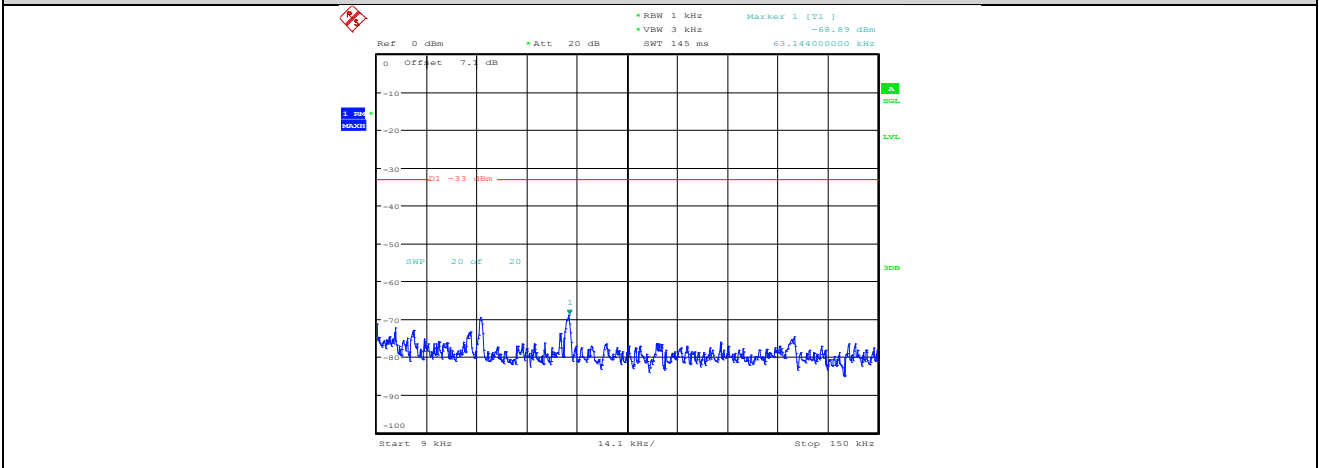
Band5-4132-2-1000~10000MHz



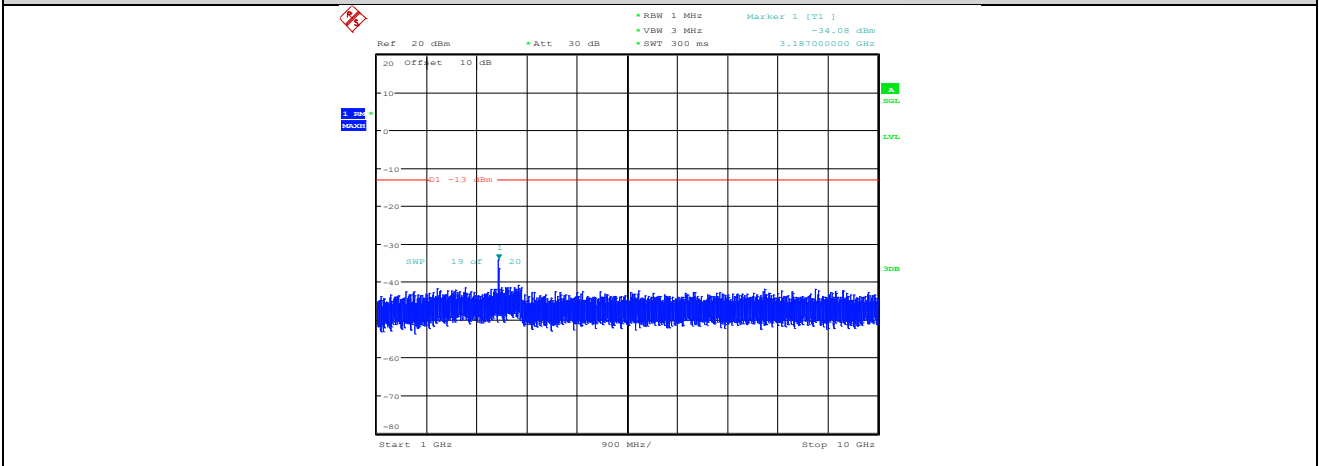
Band5-4132-2-0.15~30MHz



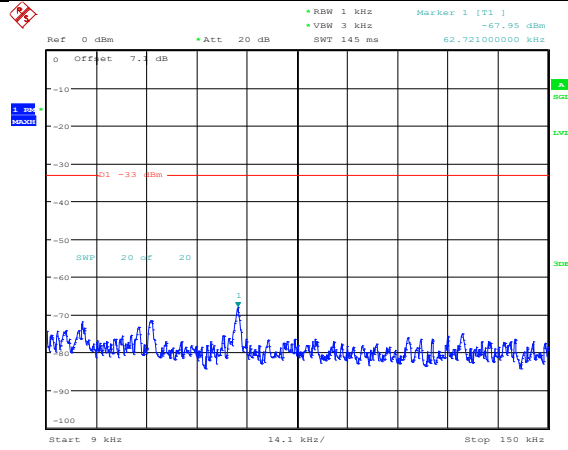
Band5-4132-2-0.009~0.15MHz



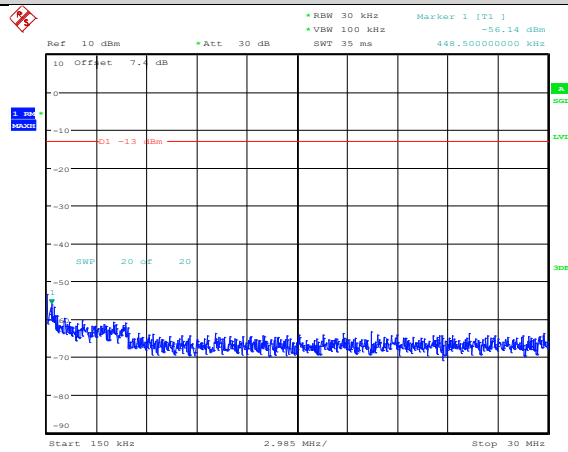
Band5-4132-3-1000~10000MHz



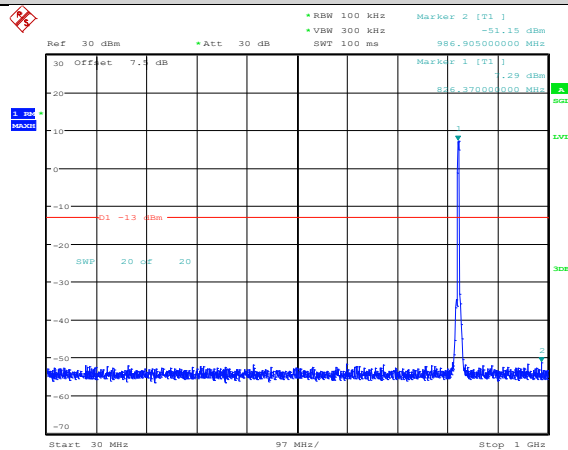
Band5-4132-3-0.009~0.15MHz



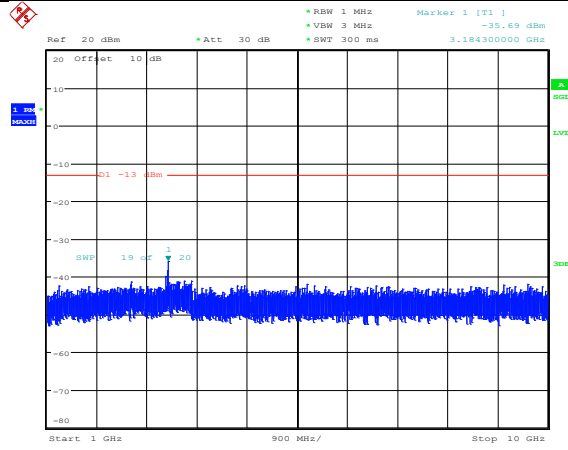
Band5-4132-3-0.15~30MHz



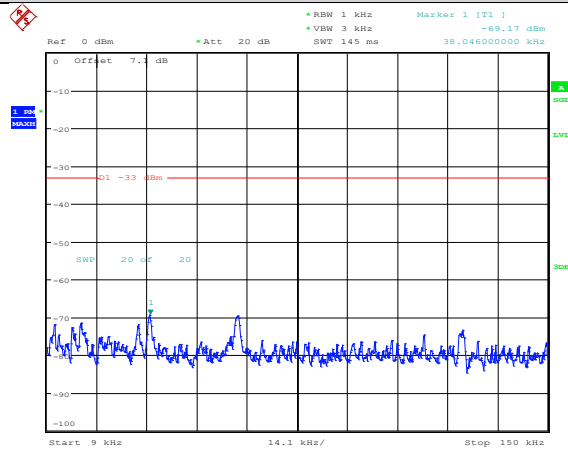
Band5-4132-3-30~1000MHz



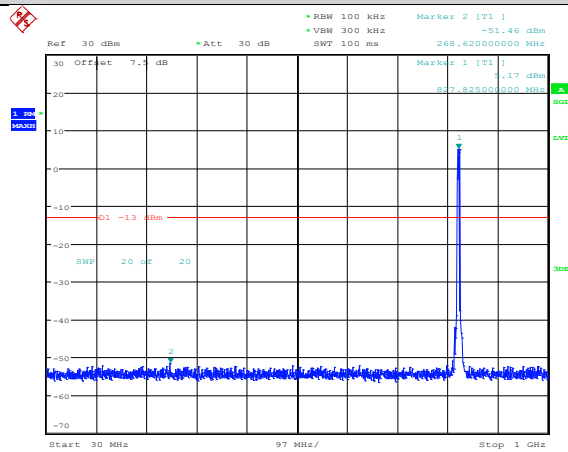
Band5-4132-4-1000~10000MHz



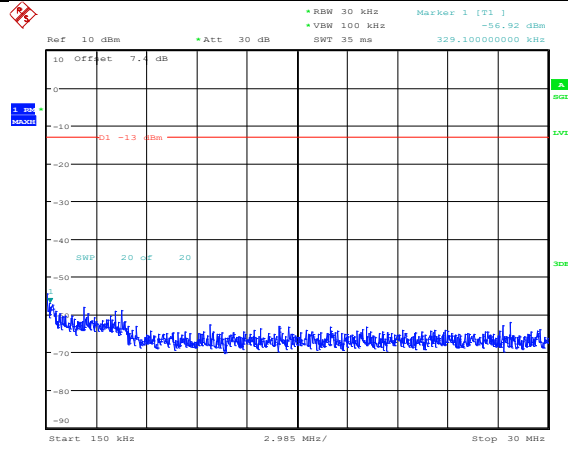
Band5-4132-4-0.009~0.15MHz



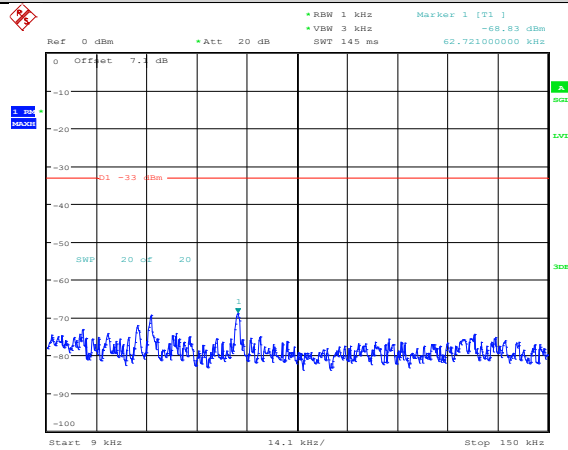
Band5-4132-4-30~1000MHz



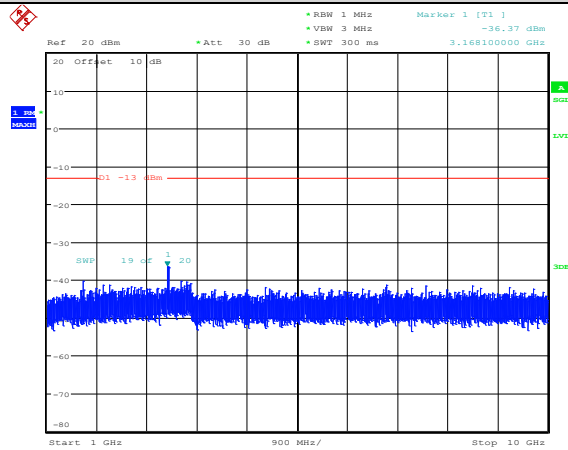
Band5-4132-4-0.15~30MHz



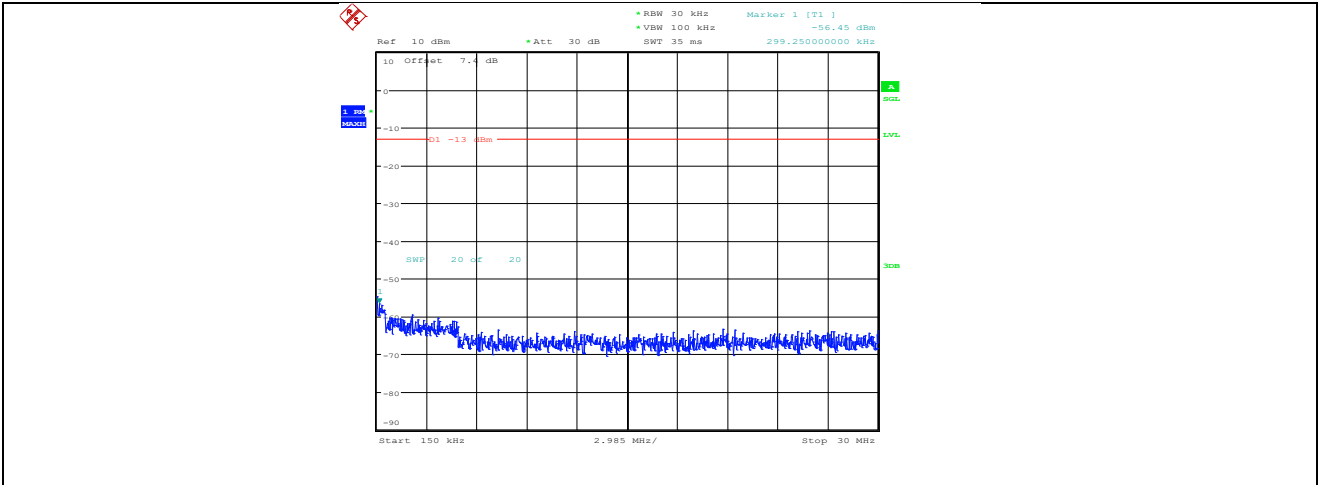
Band5-4132-5-0.009~0.15MHz



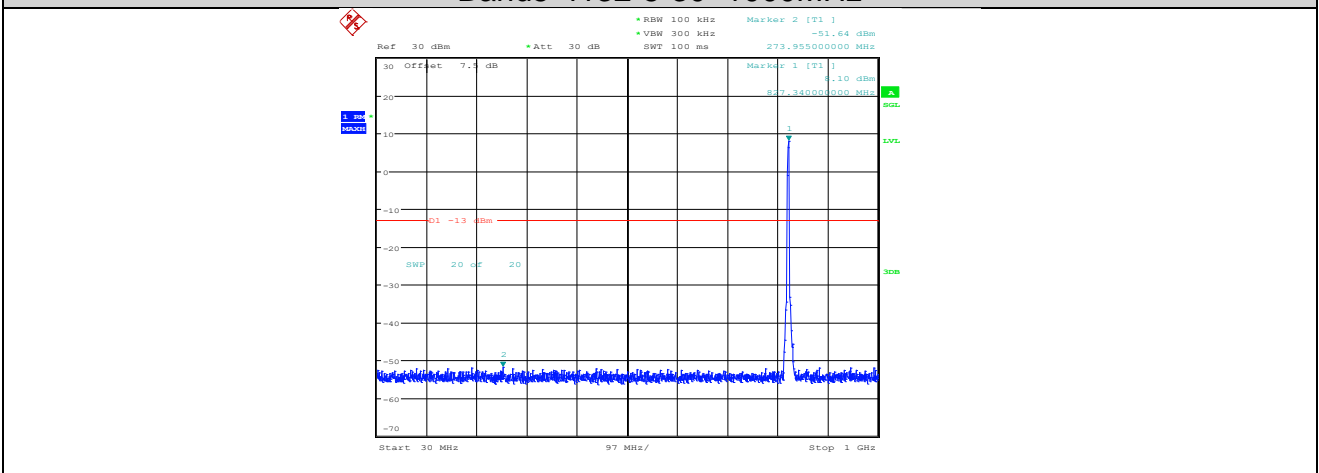
Band5-4132-5-1000~10000MHz



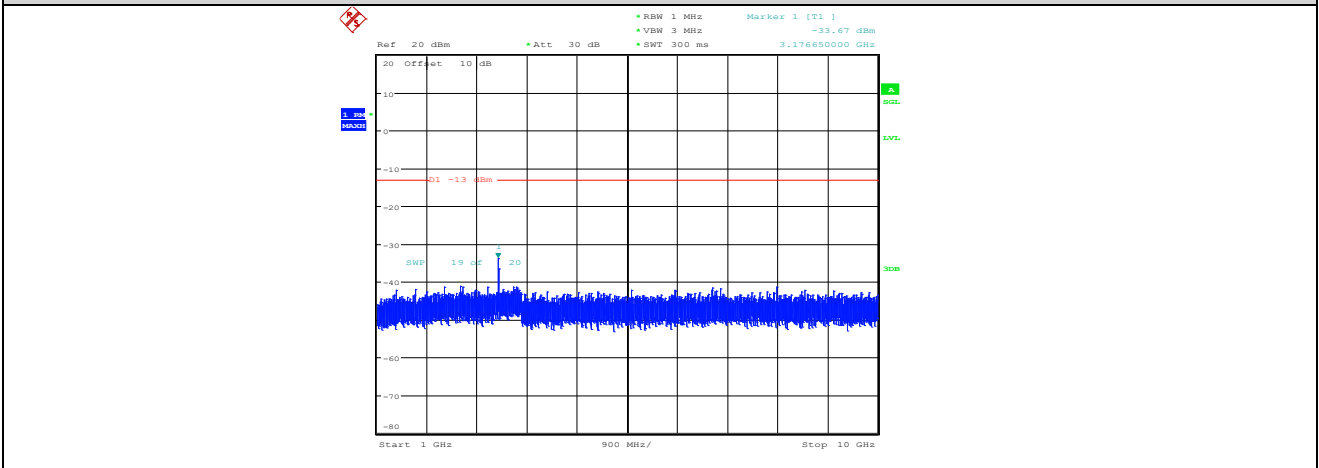
Band5-4132-5-0.15~30MHz



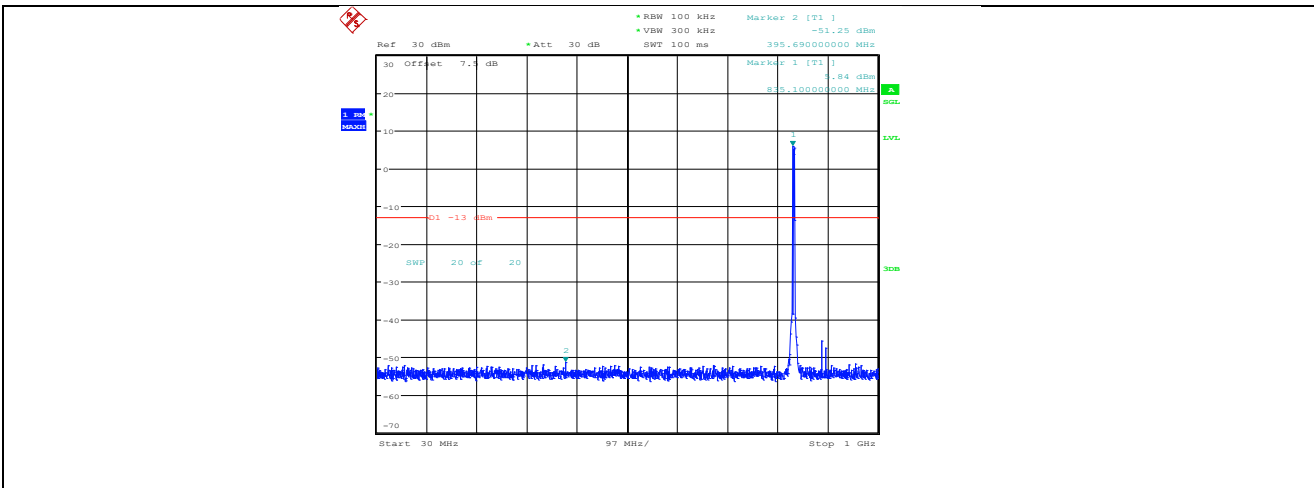
Band5-4132-5-30~1000MHz



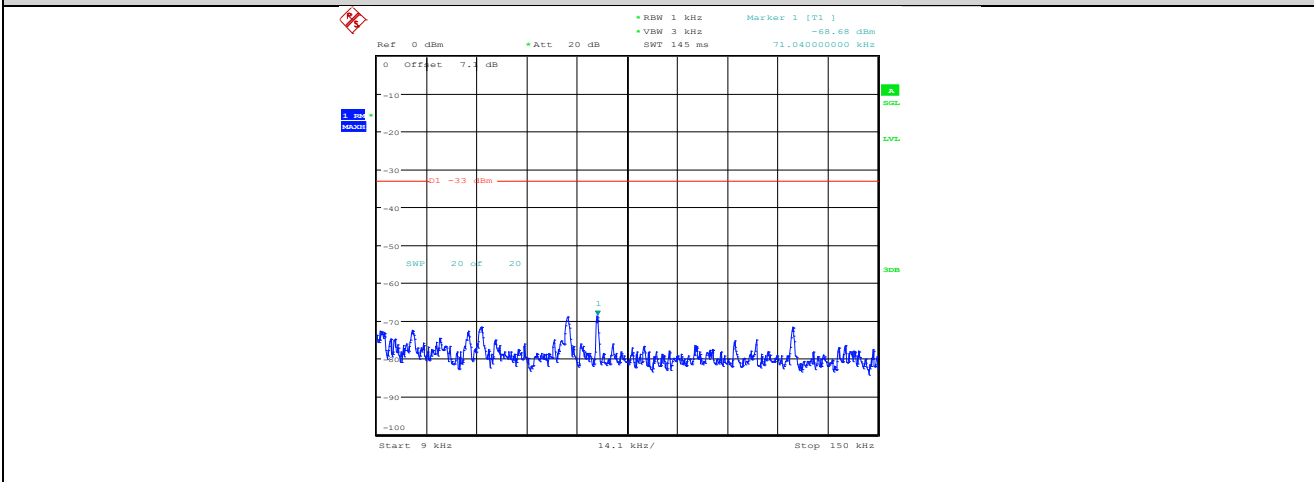
Band5-4182-1-1000~10000MHz



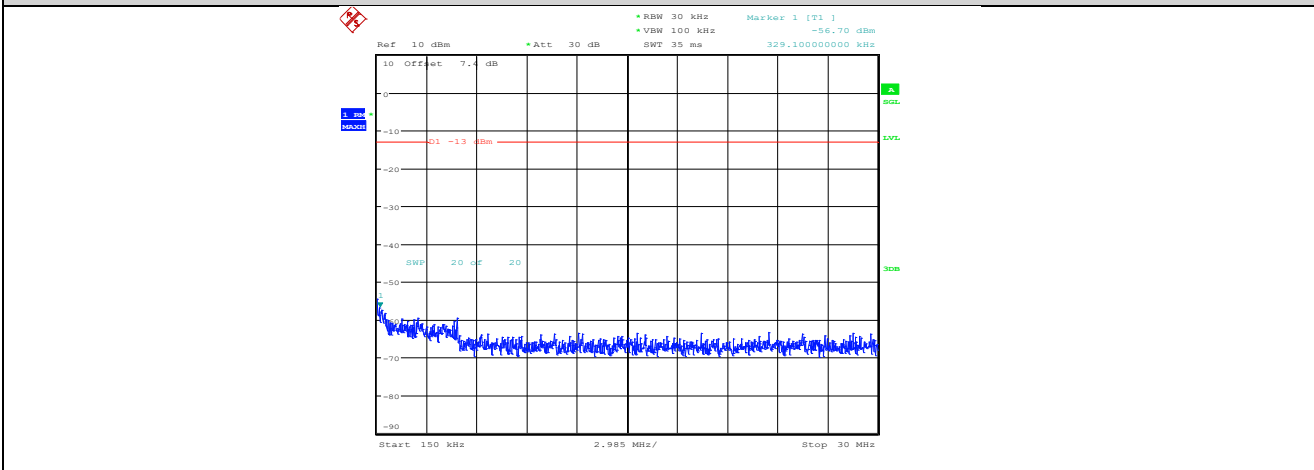
Band5-4182-1-30~1000MHz



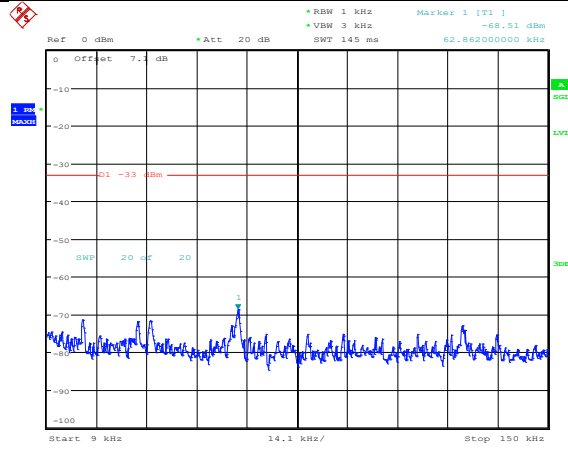
Band5-4182-1-0.009~0.15MHz



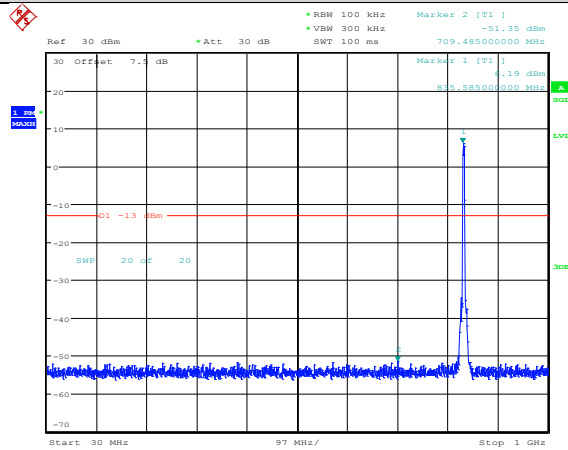
Band5-4182-1-0.15~30MHz



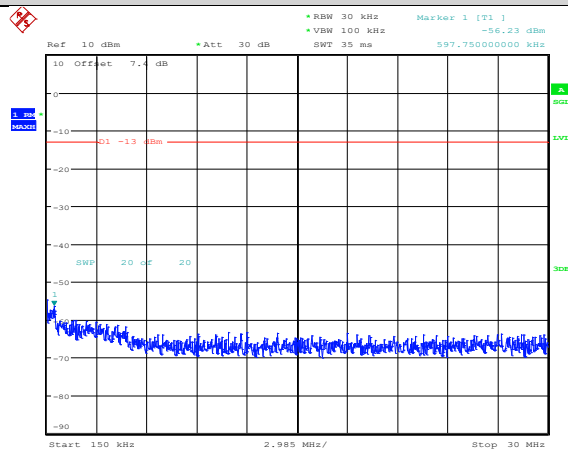
Band5-4182-2-0.009~0.15MHz



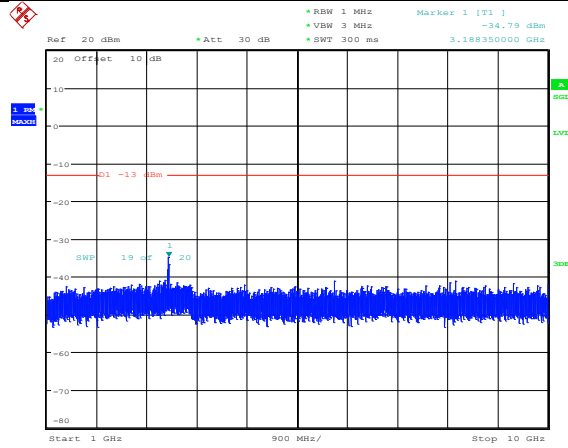
Band5-4182-2-30~1000MHz



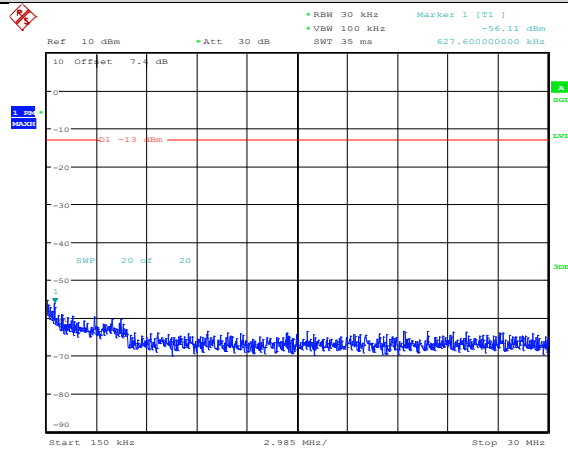
Band5-4182-2-0.15~30MHz



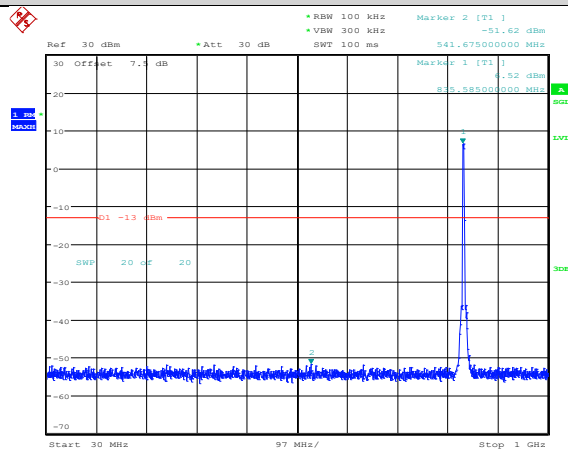
Band5-4182-2-1000~10000MHz



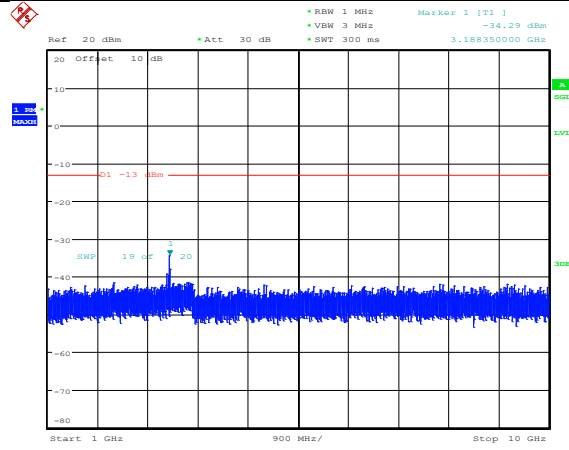
Band5-4182-3-0.15~30MHz



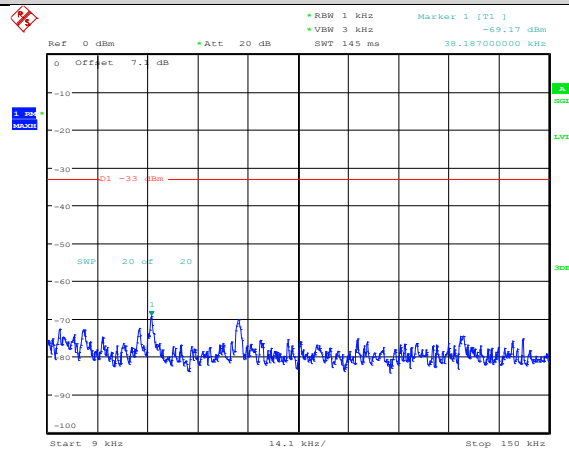
Band5-4182-3-30~1000MHz



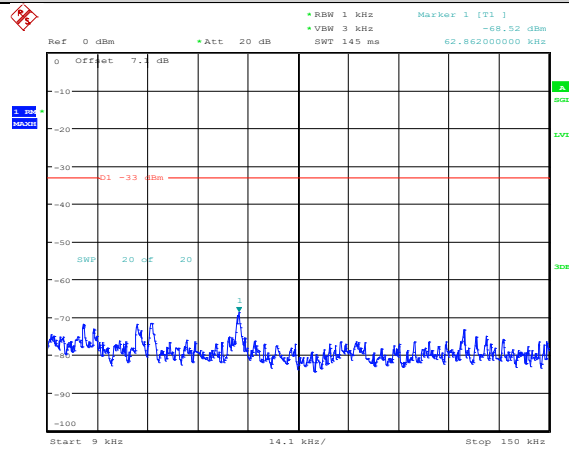
Band5-4182-3-1000~10000MHz



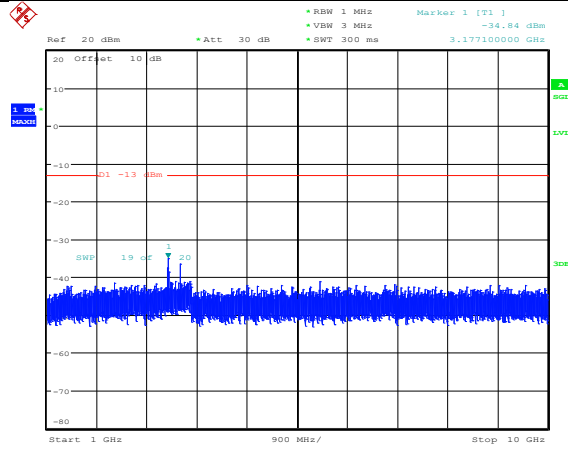
Band5-4182-3-0.009~0.15MHz



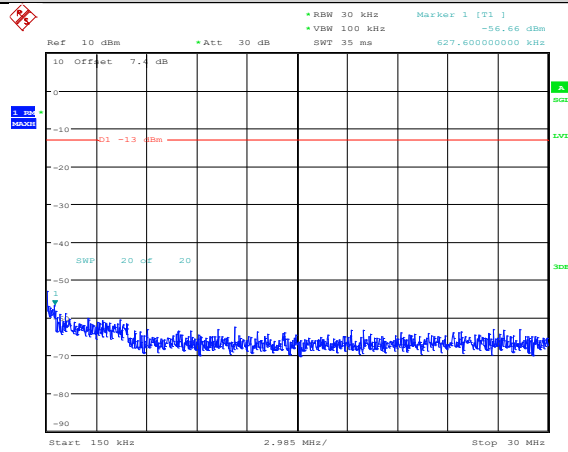
Band5-4182-4-0.009~0.15MHz



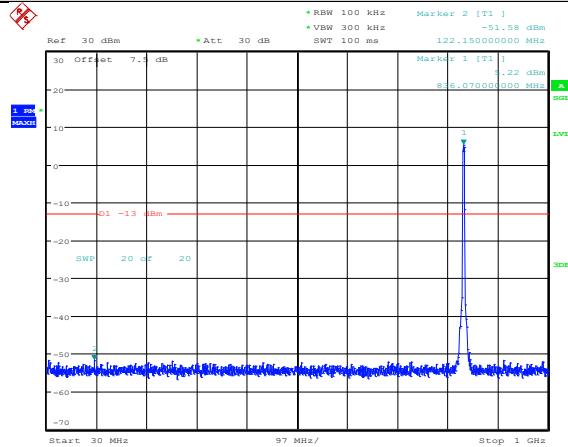
Band5-4182-4-1000~10000MHz



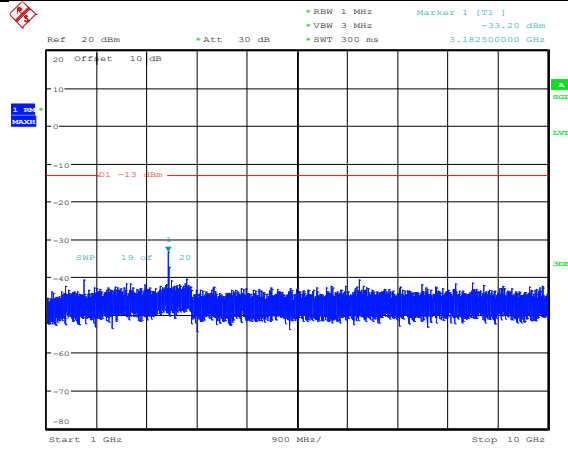
Band5-4182-4-0.15~30MHz



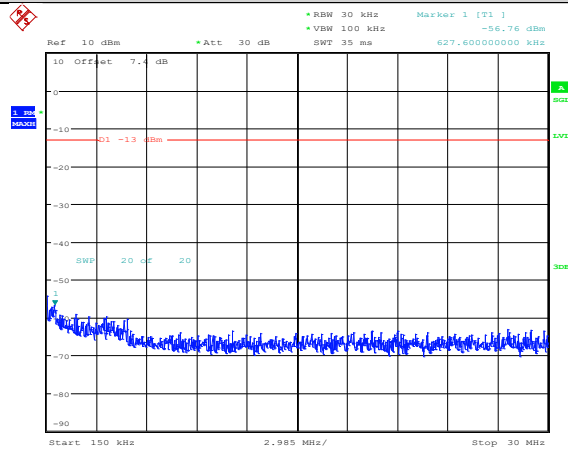
Band5-4182-4-30~1000MHz



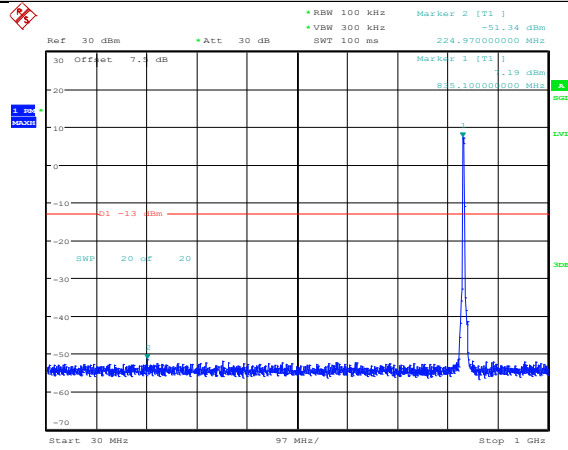
Band5-4182-5-1000~10000MHz



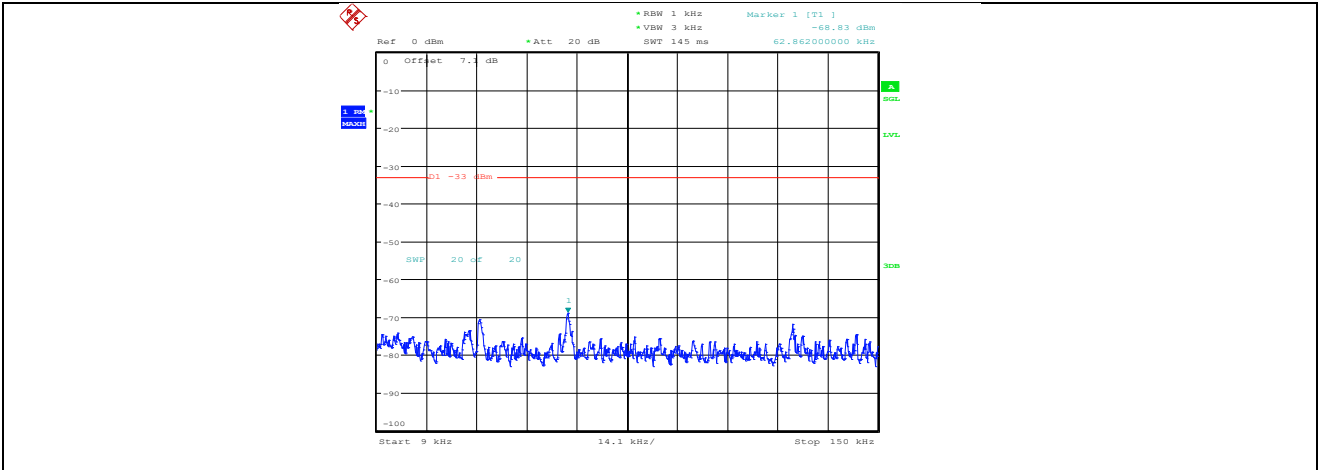
Band5-4182-5-0.15~30MHz



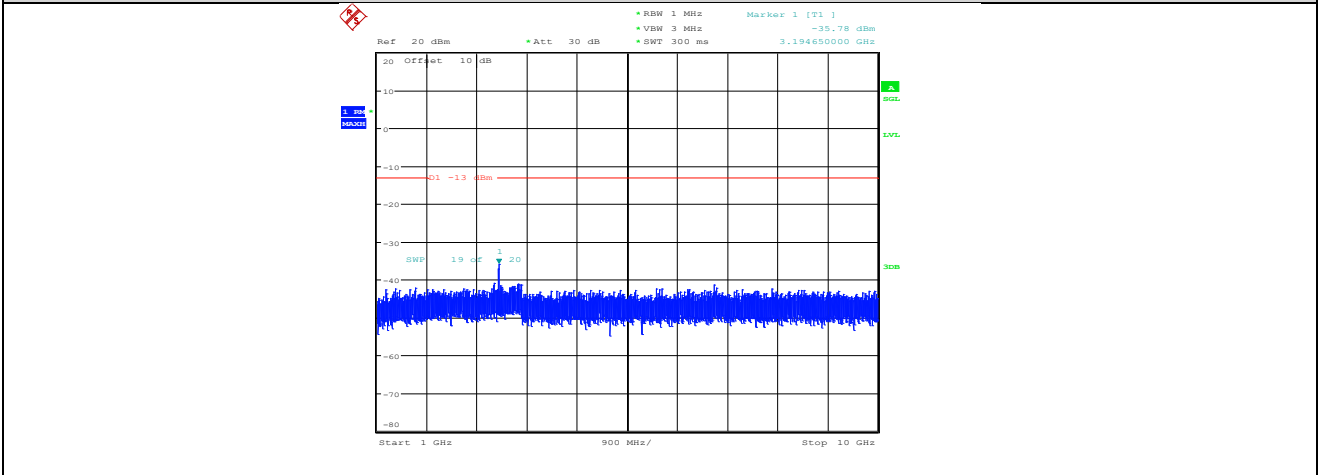
Band5-4182-5-30~1000MHz



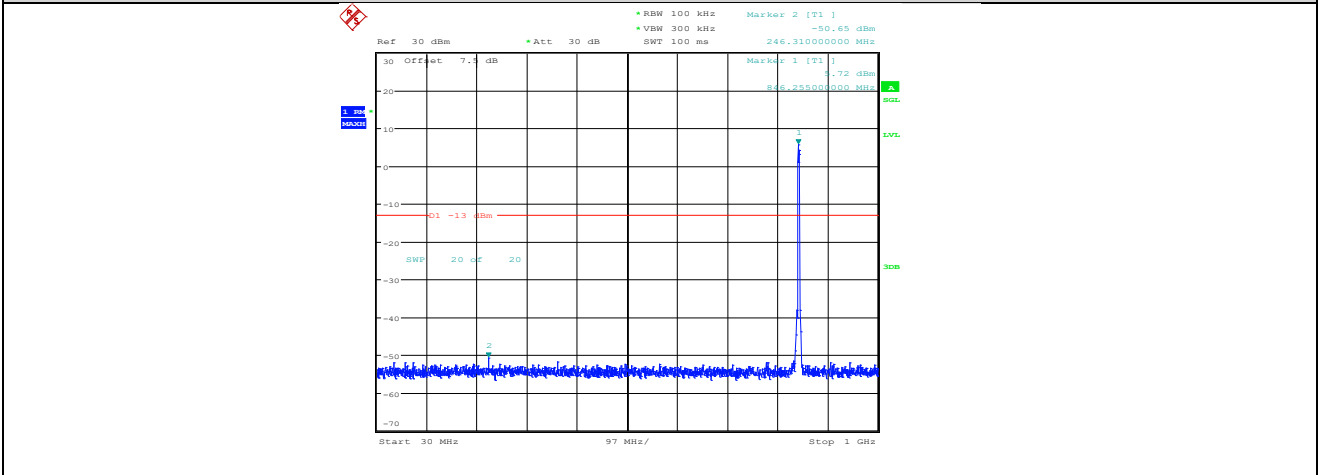
Band5-4182-5-0.009~0.15MHz



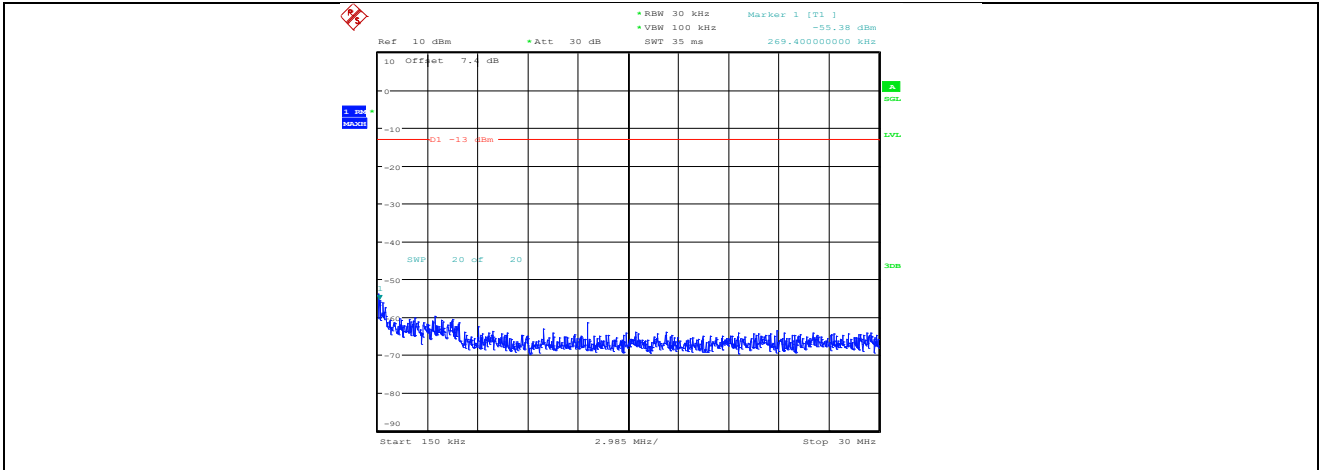
Band5-4233-1-1000~10000MHz



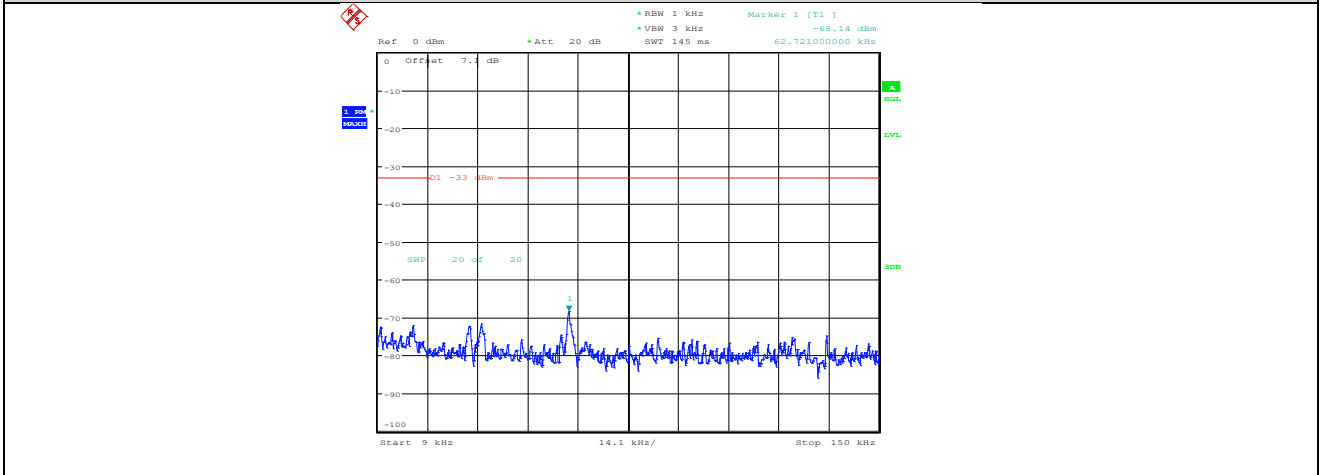
Band5-4233-1-30~1000MHz



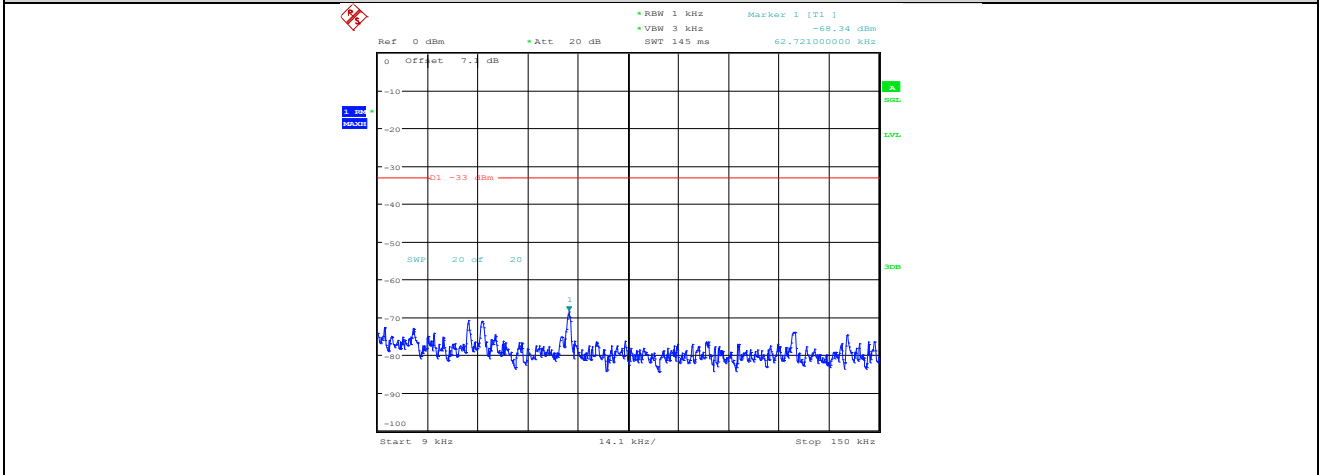
Band5-4233-1-0.15~30MHz



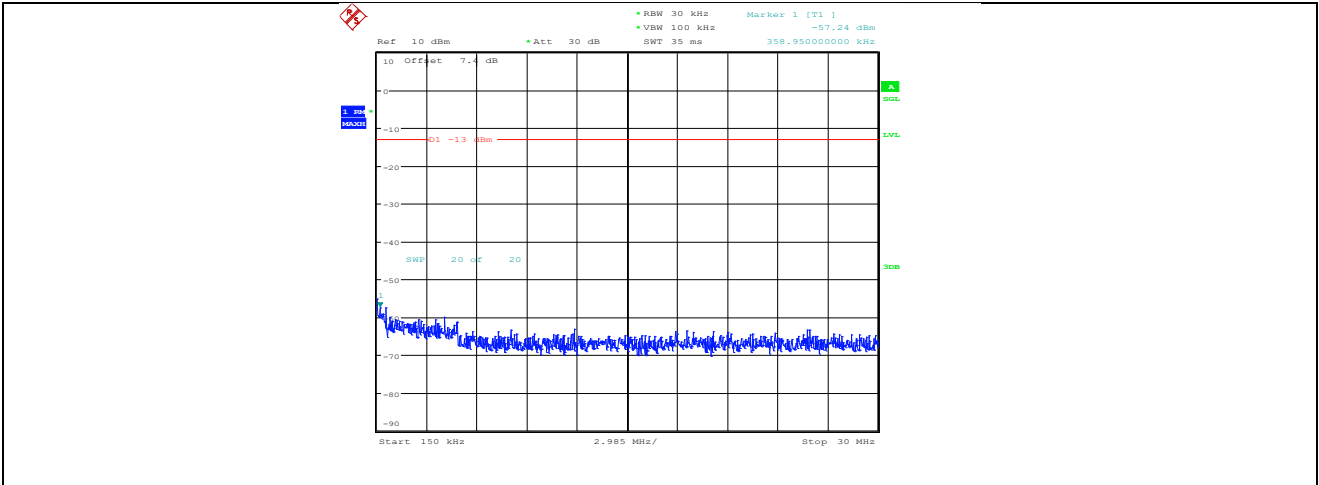
Band5-4233-1-0.009~0.15MHz



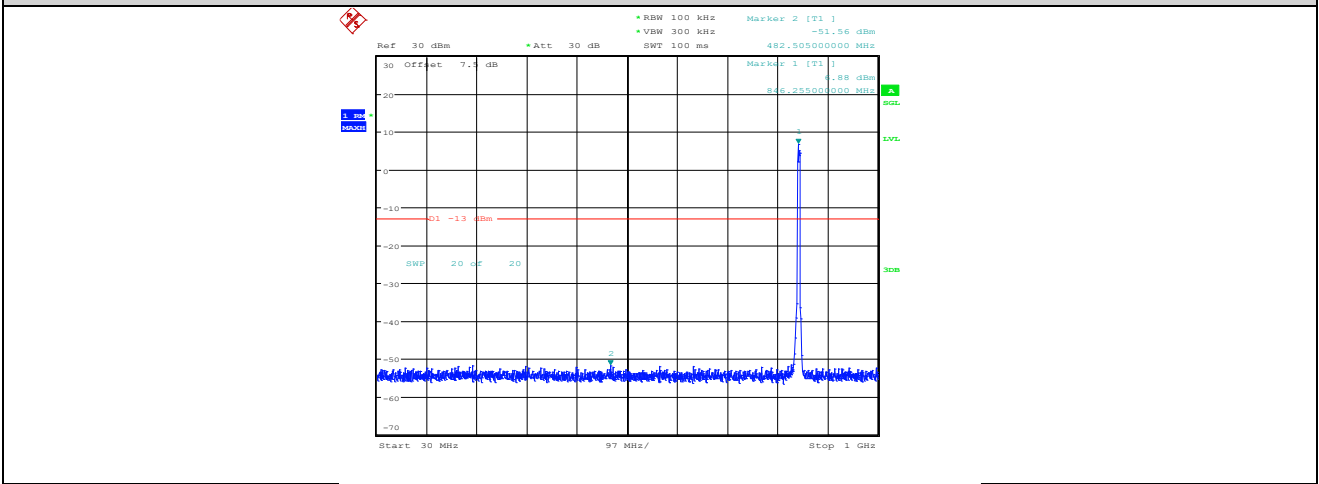
Band5-4233-2-0.009~0.15MHz



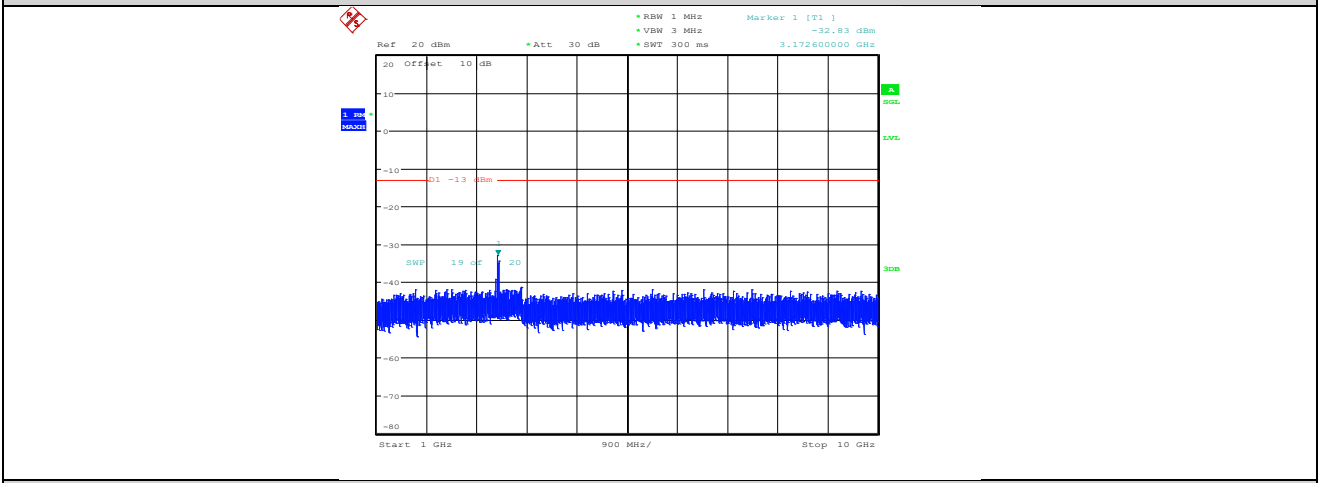
Band5-4233-2-0.15~30MHz



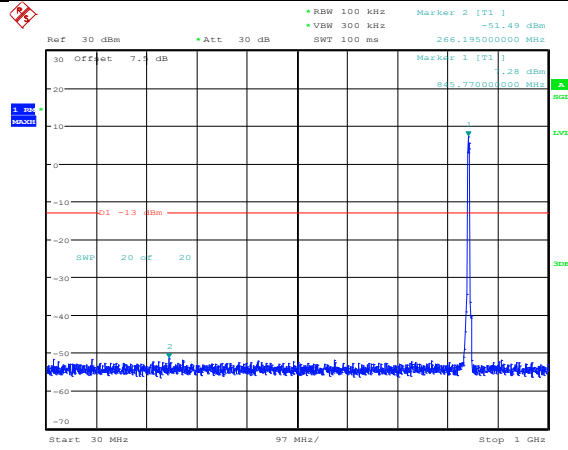
Band5-4233-2-30~1000MHz



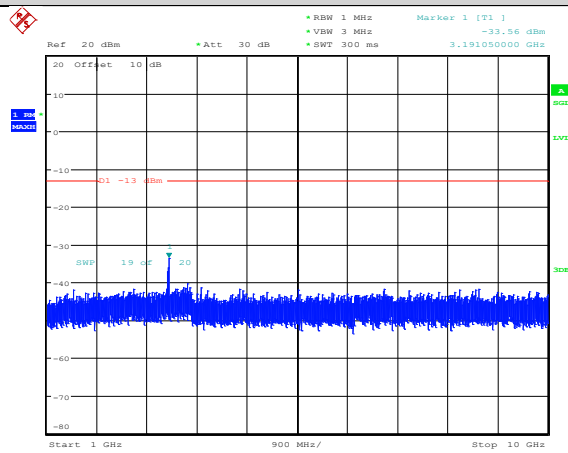
Band5-4233-2-1000~10000MHz



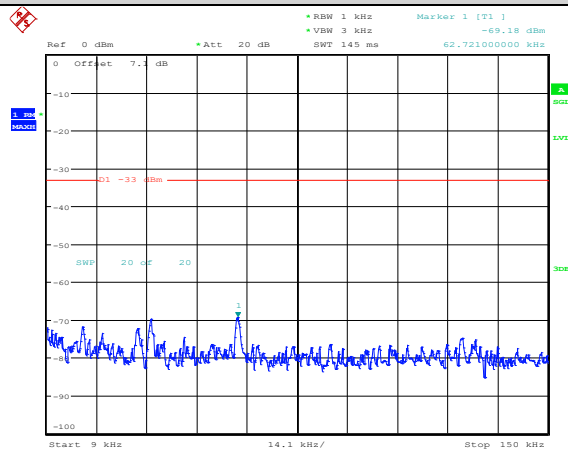
Band5-4233-3-30~1000MHz



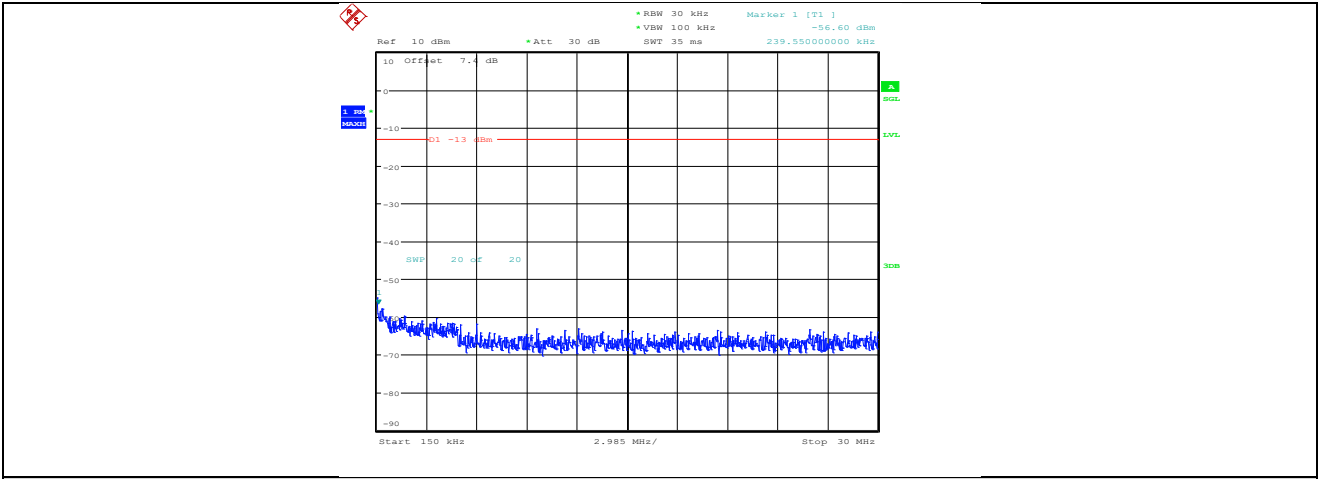
Band5-4233-3-1000~10000MHz



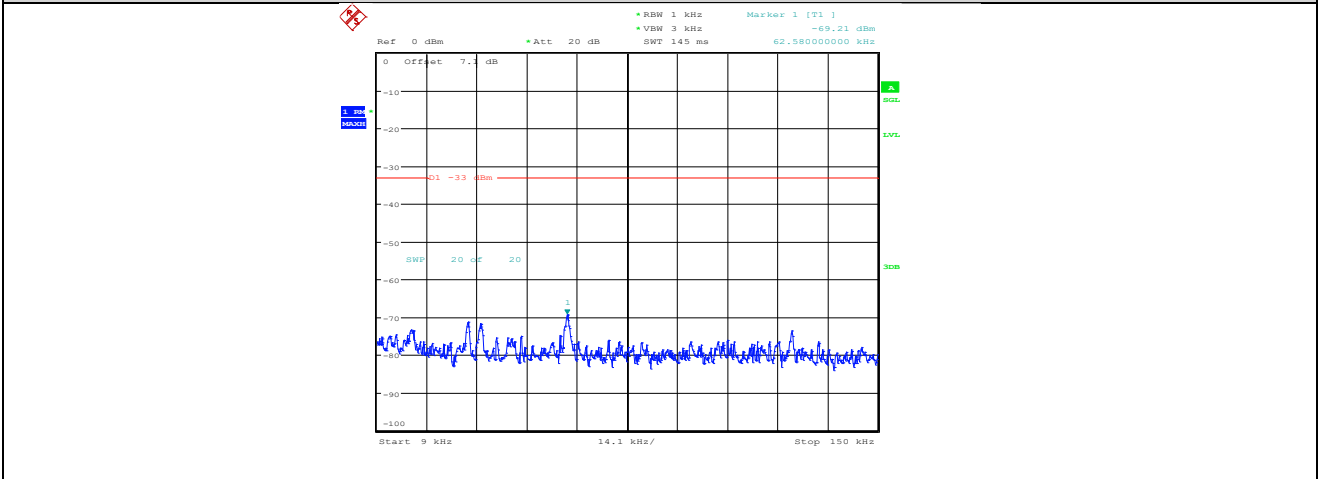
Band5-4233-3-0.009~0.15MHz



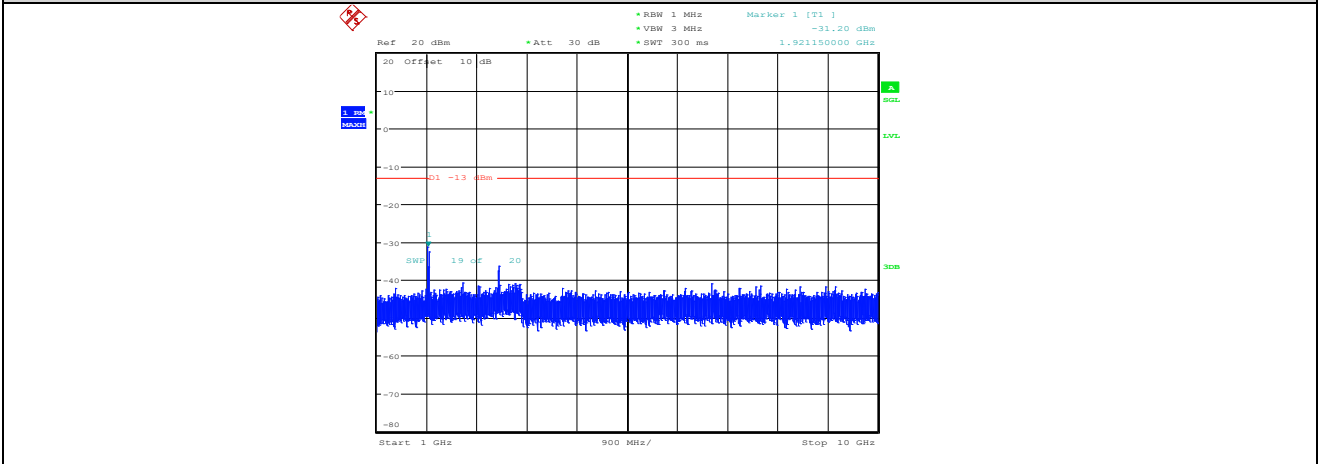
Band5-4233-3-0.15~30MHz



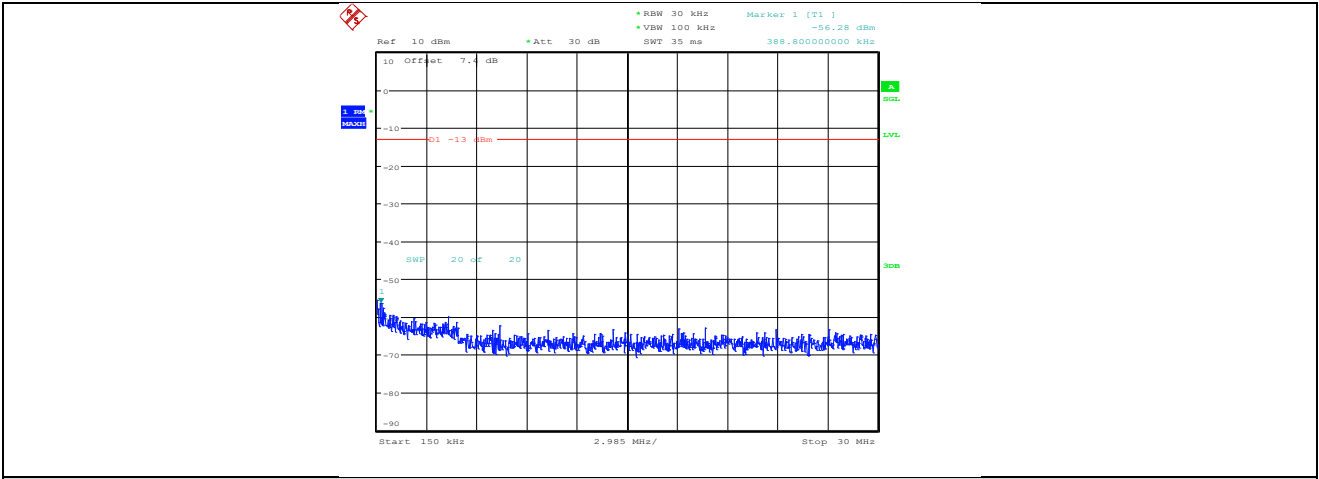
Band5-4233-4-0.009~0.15MHz



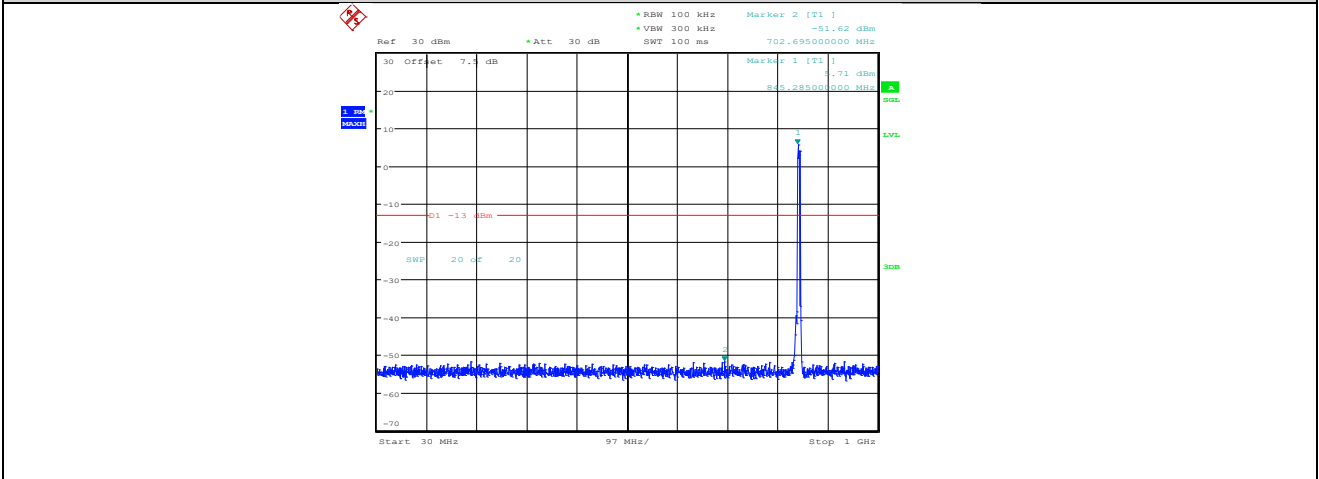
Band5-4233-4-1000~10000MHz



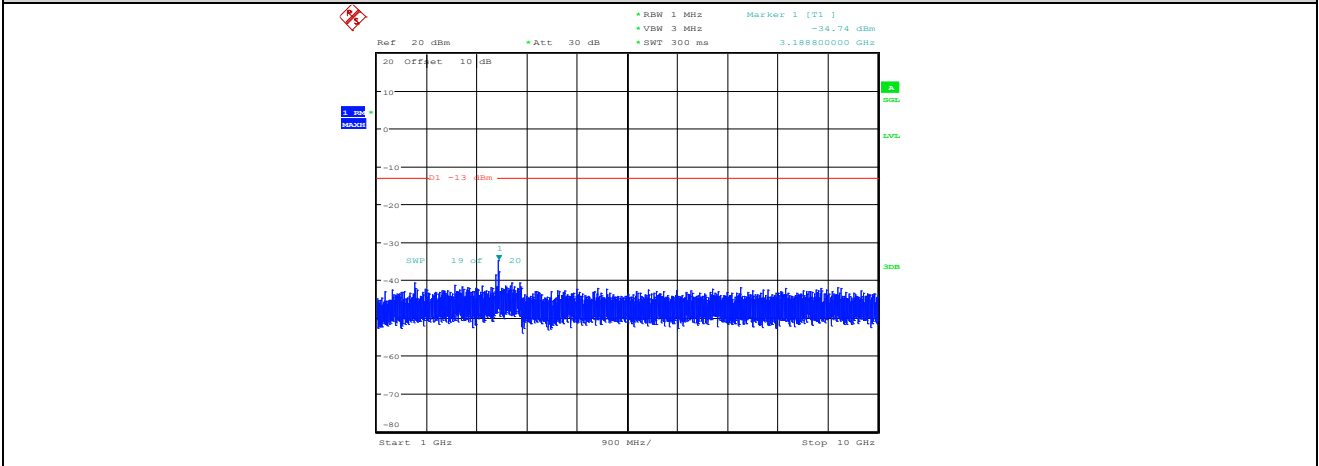
Band5-4233-4-0.15~30MHz



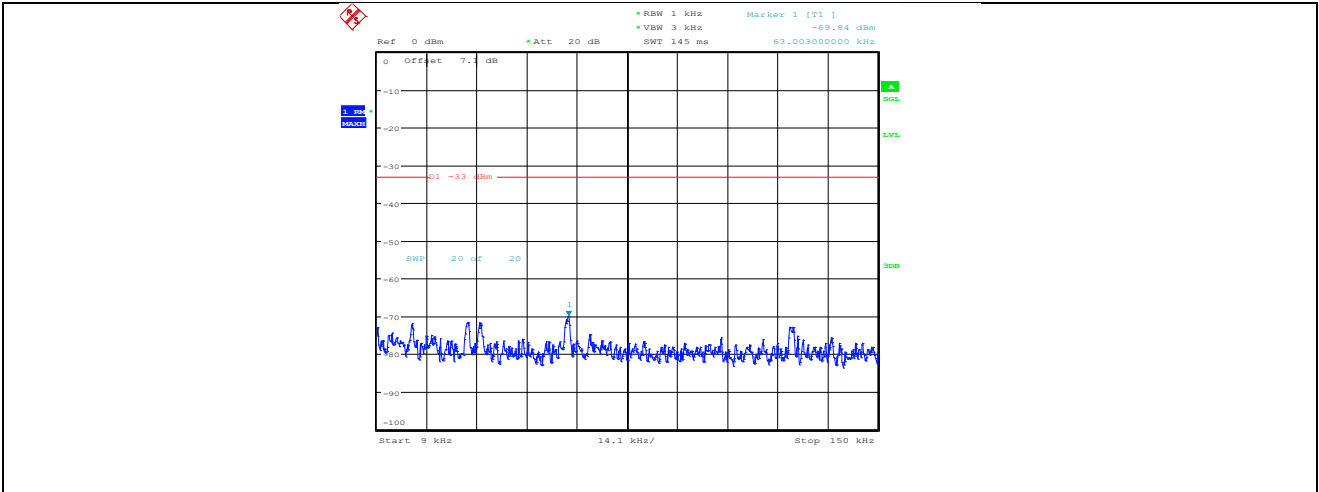
Band5-4233-4-30~1000MHz



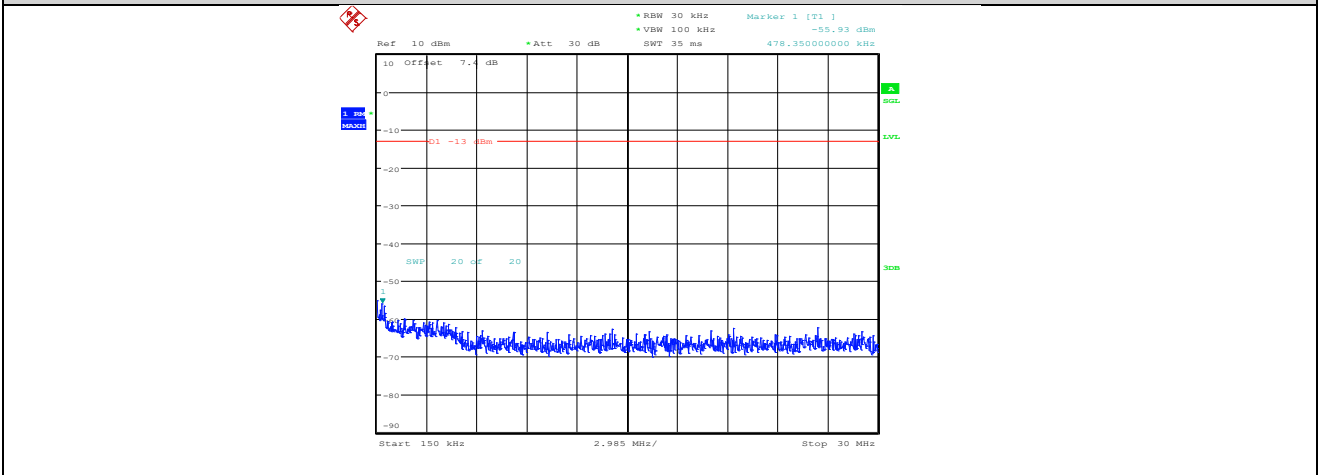
Band5-4233-5-1000~10000MHz



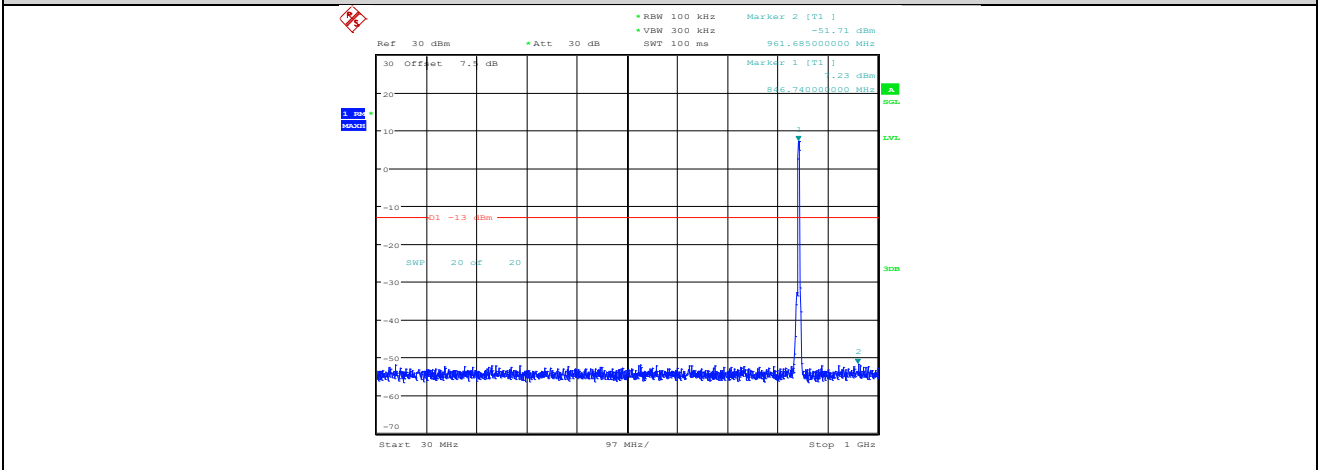
Band5-4233-5-0.009~0.15MHz



Band5-4233-5-0.15~30MHz



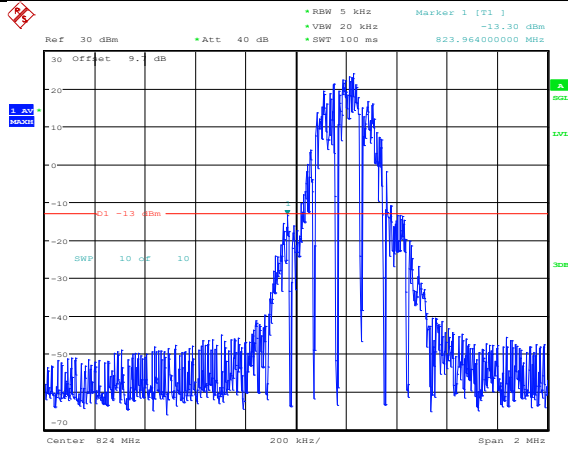
Band5-4233-5-30~1000MHz



Band Edge:

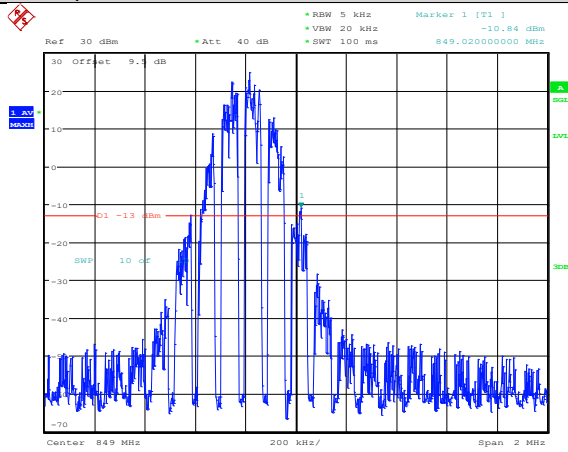
Band	Channel	PCL	Freq (MHz)	Result (dBm)	Limit(dBm)	Verdict
GSM850	128	5	823.96	-13.30	-13	PASS
GSM850	251	5	849.02	-10.84	-13	PASS
GPRS850	128	5	823.99	-36.12	-13	PASS
GPRS850	251	5	849.02	-38.36	-13	PASS
EGPRS850	128	8	823.96	-48.09	-13	PASS
EGPRS850	251	8	849.04	-47.45	-13	PASS
GSM1900	512	0	1849.98	-34.21	-13	PASS
GSM1900	810	0	1910.01	-32.48	-13	PASS
GPRS1900	512	0	1849.97	-38.29	-13	PASS
GPRS1900	810	0	1910.01	-36.65	-13	PASS
EGPRS1900	512	2	1849.98	-44.81	-13	PASS
EGPRS1900	810	2	1910.02	-47.63	-13	PASS

@FCC_GSM_Band_Edges_Compliance_IMG@GSM850-128



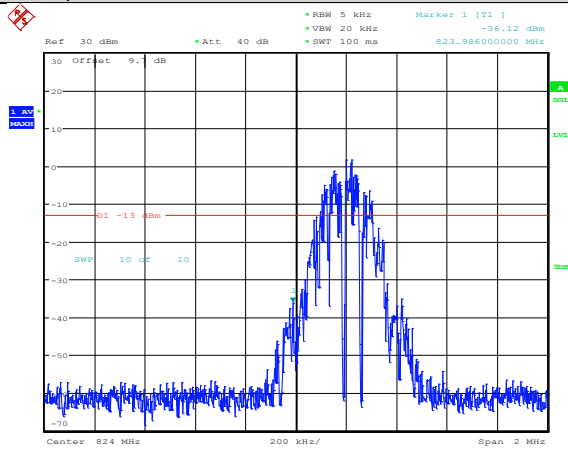
@FCC_GSM_Band_Edges_Compliance_IMG@

@FCC_GSM_Band_Edges_Compliance_IMG@GSM850-251



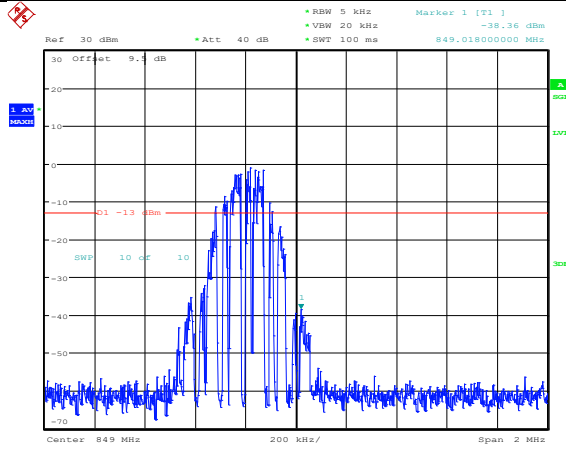
@FCC_GSM_Band_Edges_Compliance_IMG@

@FCC_GSM_Band_Edges_Compliance_IMG@GPRS850-128



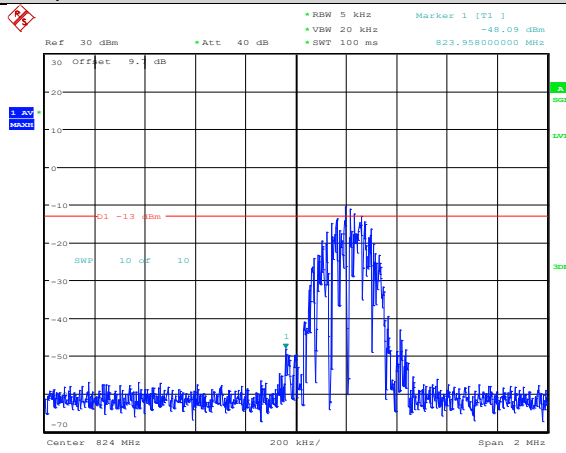
@FCC_GSM_Band_Edges_Compliance_IMG@

@FCC_GSM_Band_Edges_Compliance_IMG@GPRS850-251



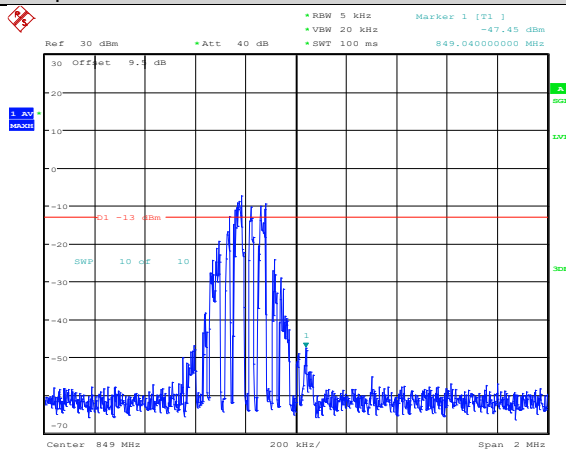
@FCC_GSM_Band_Edges_Compliance_IMG@

@FCC_GSM_Band_Edges_Compliance_IMG@EGPRS850-128



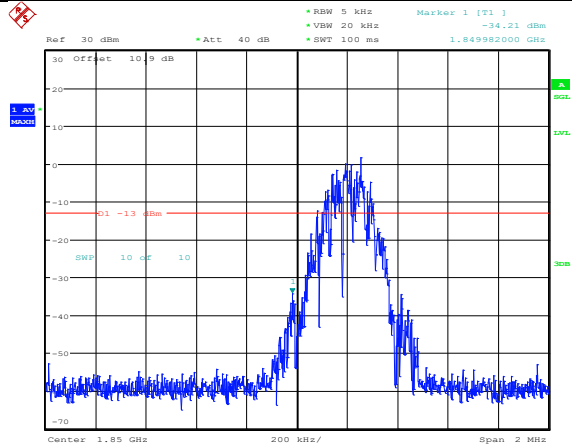
@FCC_GSM_Band_Edges_Compliance_IMG@

@FCC_GSM_Band_Edges_Compliance_IMG@EGPRS850-251



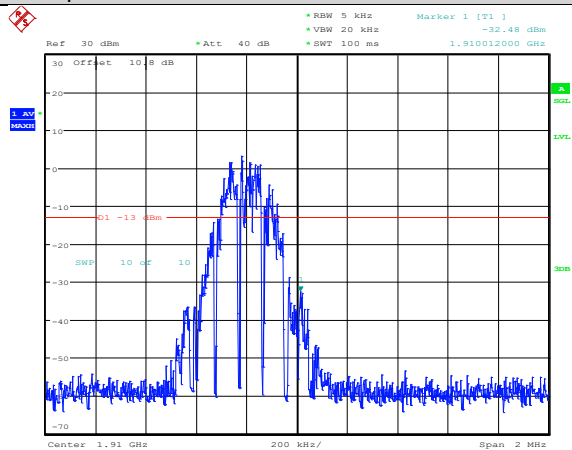
@FCC_GSM_Band_Edges_Compliance_IMG@

@FCC_GSM_Band_Edges_Compliance_IMG@GSM1900-512



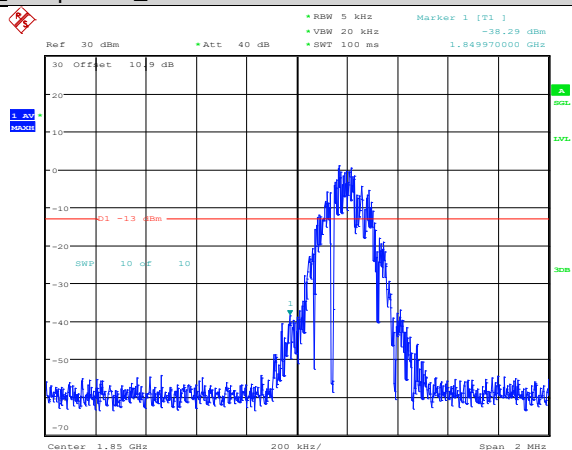
@FCC_GSM_Band_Edges_Compliance_IMG@

@FCC_GSM_Band_Edges_Compliance_IMG@GSM1900-810



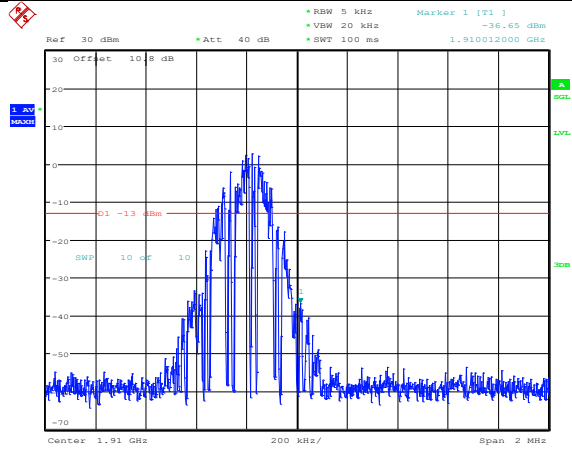
@FCC_GSM_Band_Edges_Compliance_IMG@

@FCC_GSM_Band_Edges_Compliance_IMG@GPRS1900-512



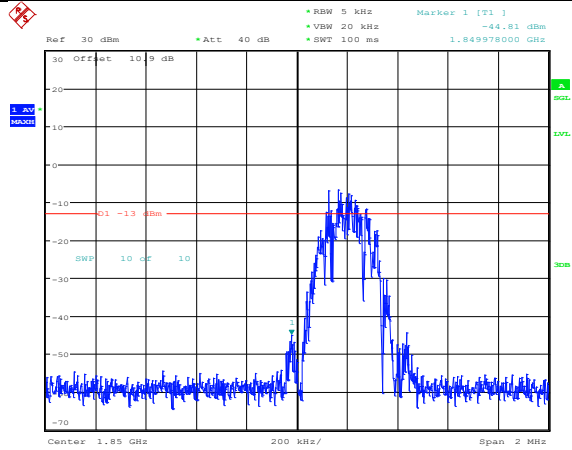
@FCC_GSM_Band_Edges_Compliance_IMG@

@FCC_GSM_Band_Edges_Compliance_IMG@GPRS1900-810



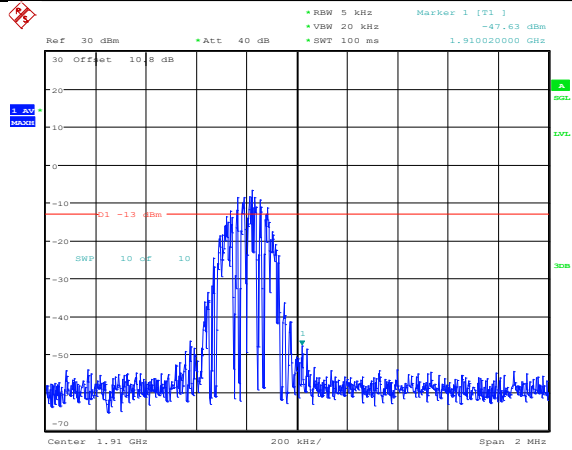
@FCC_GSM_Band_Edges_Compliance_IMG@

@FCC_GSM_Band_Edges_Compliance_IMG@EGPRS1900-512



@FCC_GSM_Band_Edges_Compliance_IMG@

@FCC_GSM_Band_Edges_Compliance_IMG@EGPRS1900-810



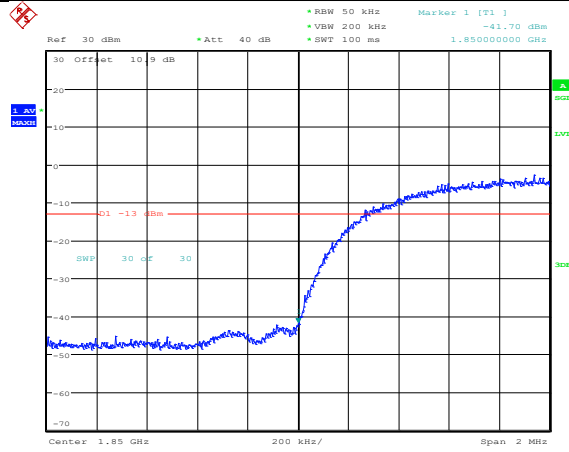
@FCC_GSM_Band_Edges_Compliance_IMG@

Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1850.00	-41.70	-13	PASS
Band2	9538	1910.00	-38.67	-13	PASS

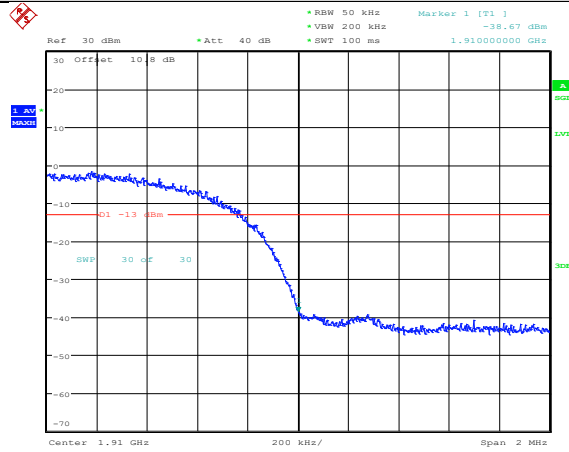
Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1	1849.94	-42.67	-13	PASS
Band2	9262	2	1849.93	-41.29	-13	PASS
Band2	9262	3	1849.92	-39.68	-13	PASS
Band2	9262	4	1849.94	-40.18	-13	PASS
Band2	9538	1	1910.09	-39.95	-13	PASS
Band2	9538	2	1910.04	-39.35	-13	PASS
Band2	9538	3	1910.07	-38.52	-13	PASS
Band2	9538	4	1910.07	-38.58	-13	PASS

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band2	9262	1	1849.91	-43.37	-13	PASS
Band2	9262	2	1849.94	-40.91	-13	PASS
Band2	9262	3	1849.95	-42.87	-13	PASS
Band2	9262	4	1849.94	-39.20	-13	PASS
Band2	9262	5	1849.89	-42.33	-13	PASS
Band2	9538	1	1910.09	-41.77	-13	PASS
Band2	9538	2	1910.08	-39.54	-13	PASS
Band2	9538	3	1910.08	-41.93	-13	PASS
Band2	9538	4	1910.07	-38.56	-13	PASS
Band2	9538	5	1910.06	-39.77	-13	PASS

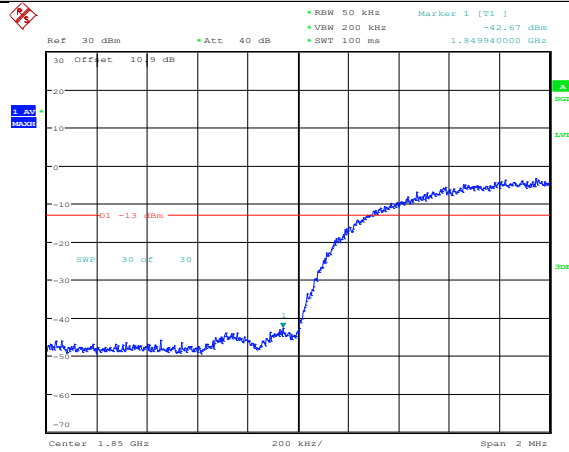
Band2-9262



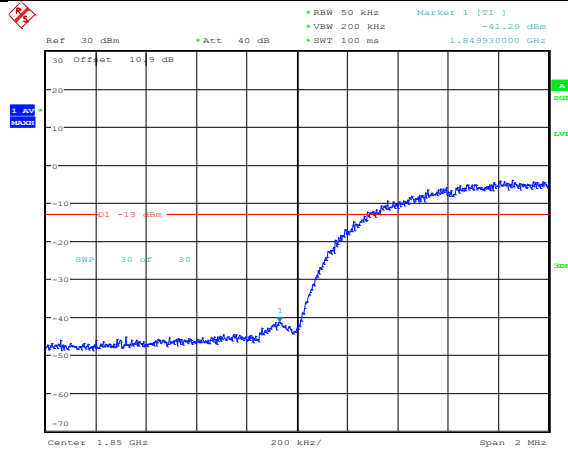
Band2-9538



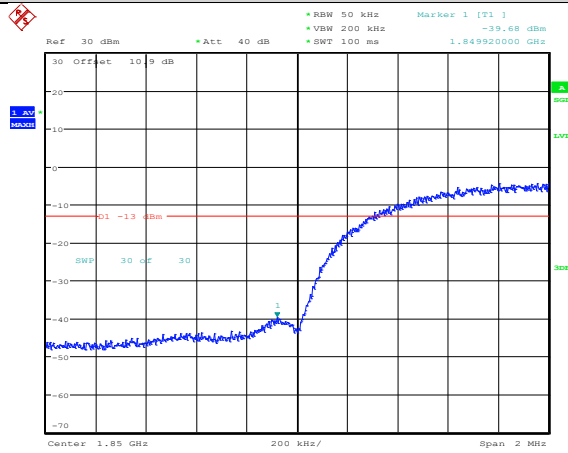
Band2-9262-1



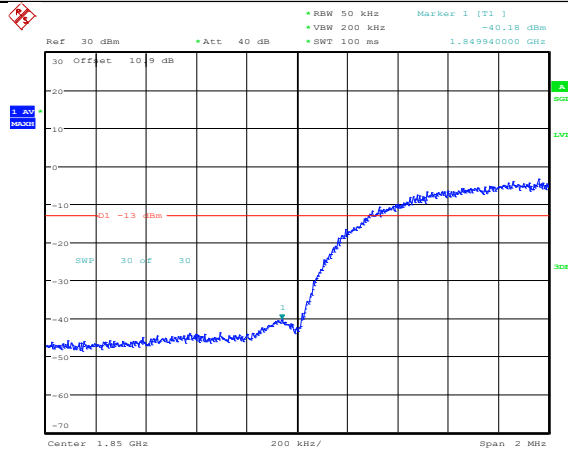
Band2-9262-2



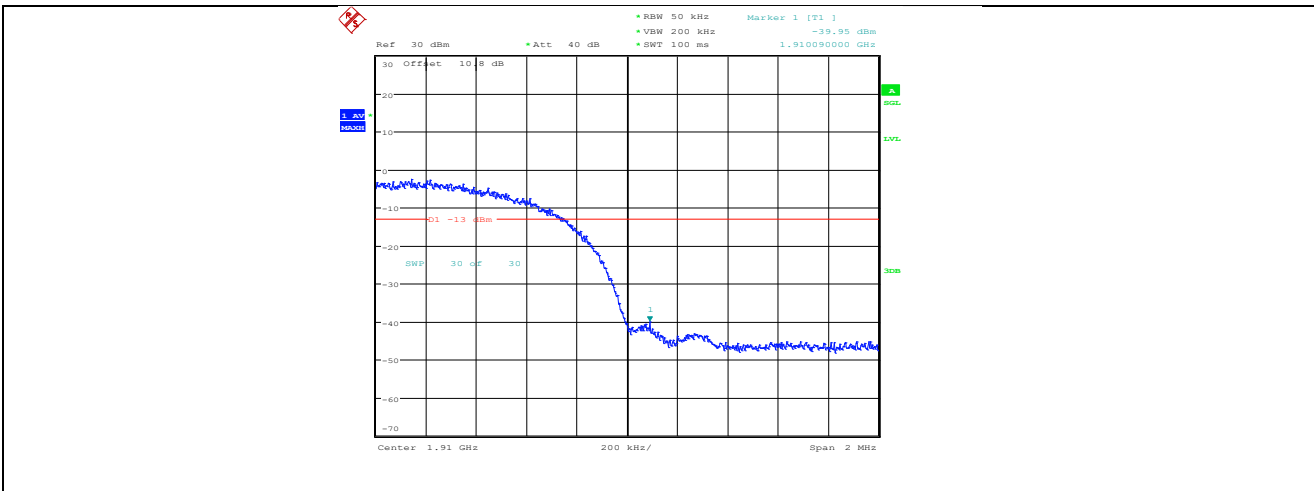
Band2-9262-3



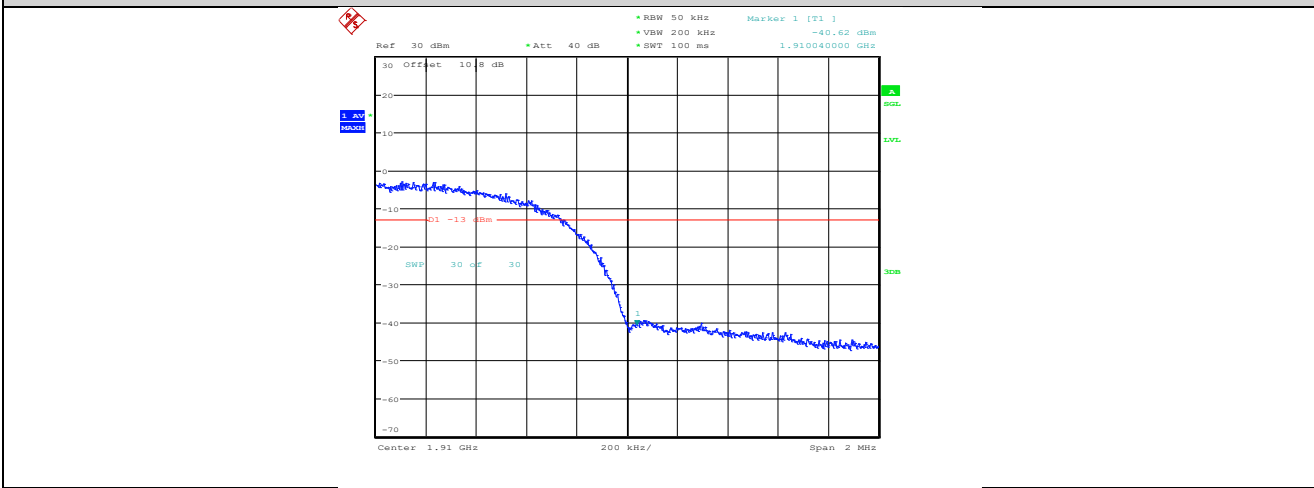
Band2-9262-4



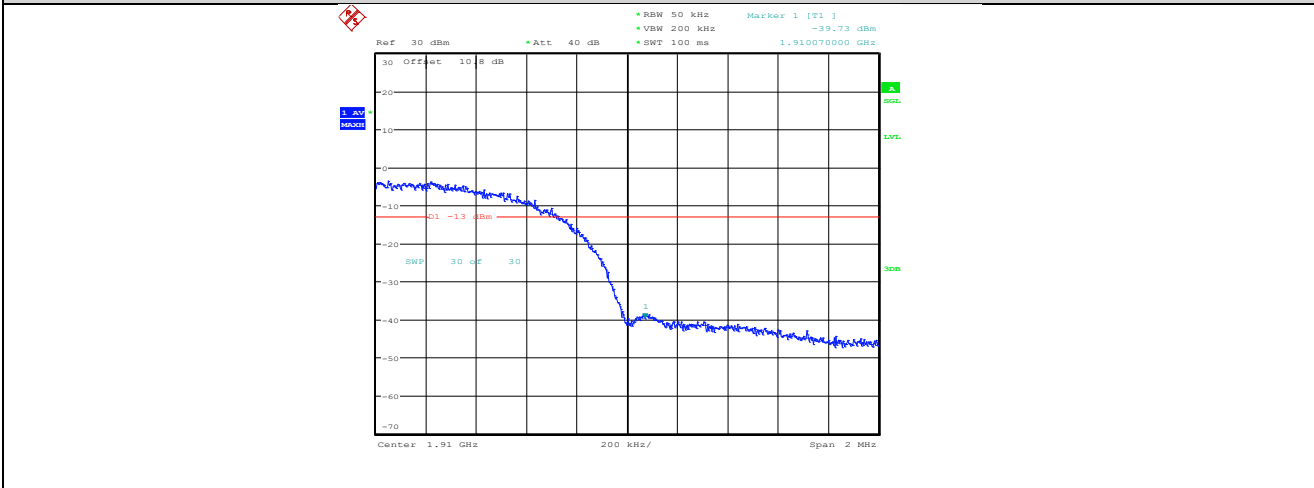
Band2-9538-1



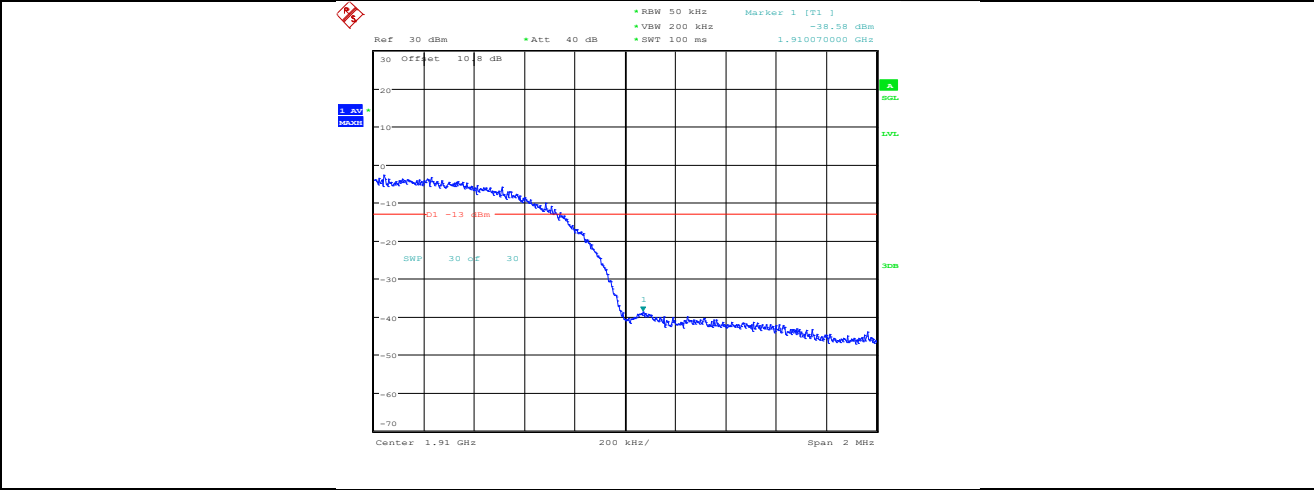
Band2-9538-2



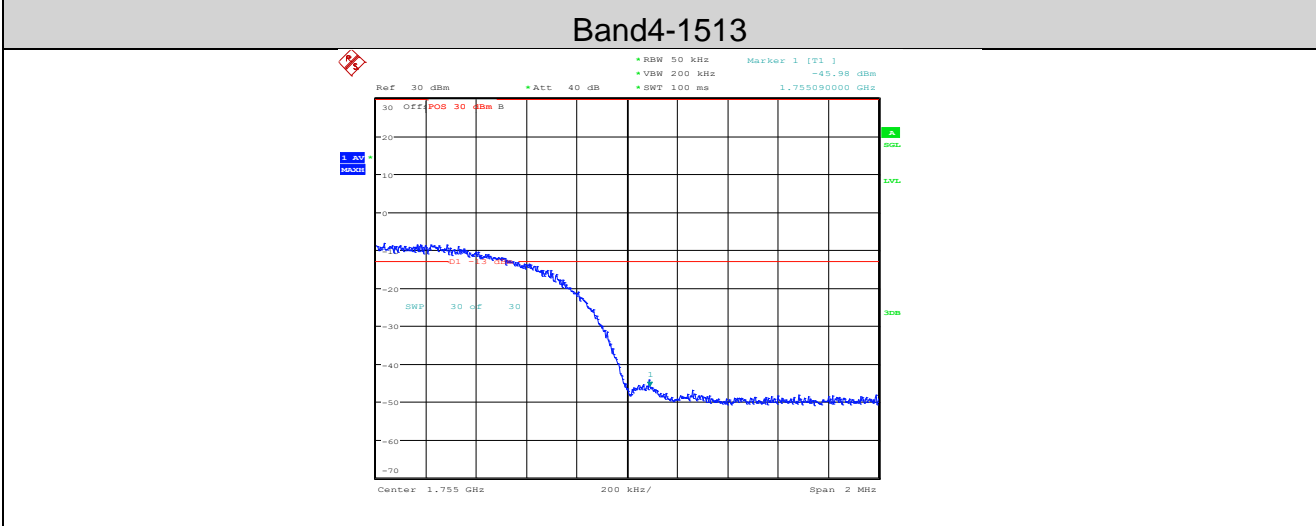
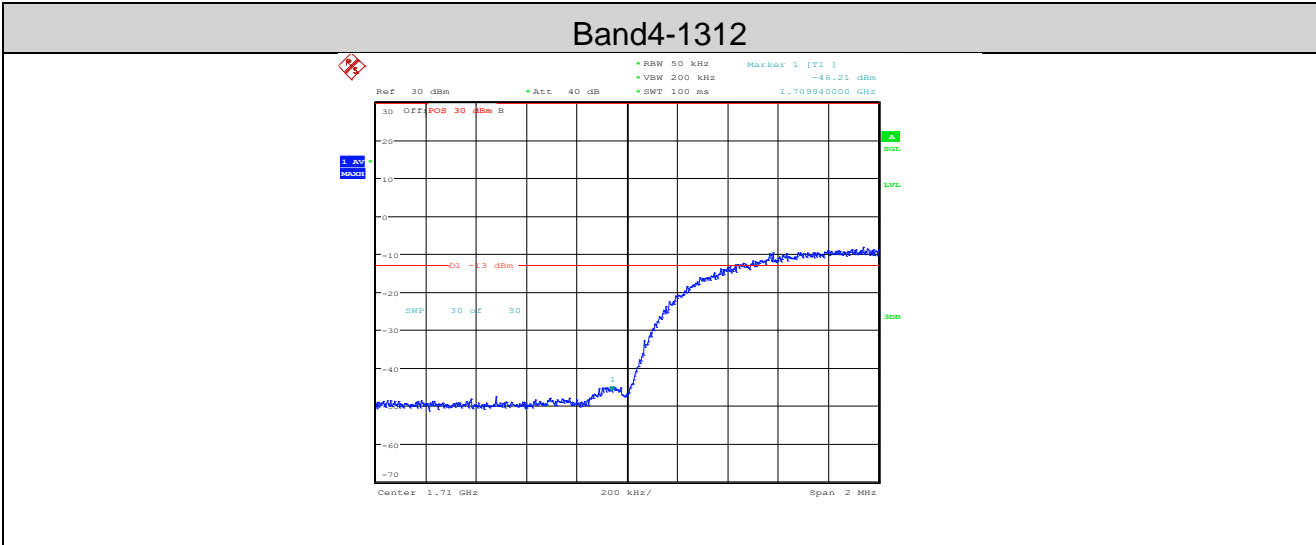
Band2-9538-3



Band2-9538-4



Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band4	1312	1709.94	-44.93	-13	PASS
Band4	1513	1755.09	-44.16	-13	PASS

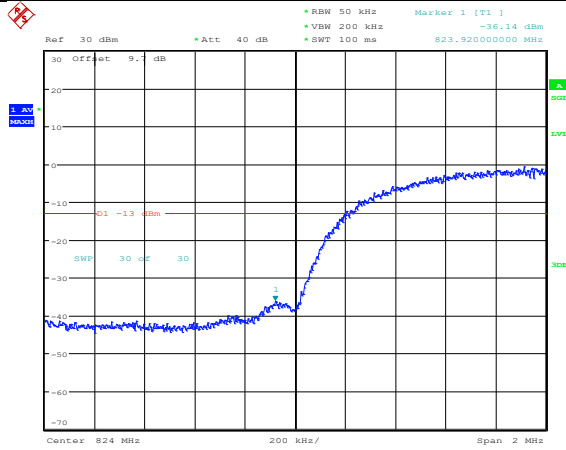


Band	Channel	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	823.92	-36.14	-13	PASS
Band5	4233	849.09	-38.47	-13	PASS

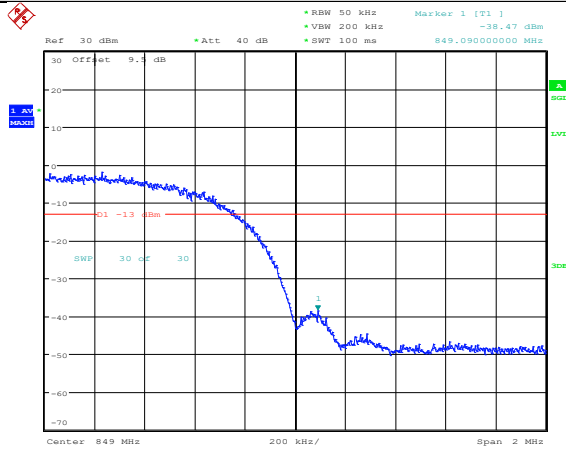
Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	1	823.90	-28.91	-13	PASS
Band5	4132	2	823.87	-28.00	-13	PASS
Band5	4132	3	823.89	-27.87	-13	PASS
Band5	4132	4	823.85	-28.20	-13	PASS
Band5	4233	1	849.13	-29.51	-13	PASS
Band5	4233	2	849.13	-29.33	-13	PASS
Band5	4233	3	849.11	-29.03	-13	PASS
Band5	4233	4	849.09	-29.62	-13	PASS

Band	Channel	SubTest	Frequency (MHz)	Result (dBm)	Limit(dBm)	Verdict
Band5	4132	1	823.88	-28.76	-13	PASS
Band5	4132	2	823.86	-28.97	-13	PASS
Band5	4132	3	823.86	-28.47	-13	PASS
Band5	4132	4	824.00	-29.48	-13	PASS
Band5	4132	5	823.89	-26.85	-13	PASS
Band5	4233	1	849.13	-30.16	-13	PASS
Band5	4233	2	849.15	-31.39	-13	PASS
Band5	4233	3	849.14	-29.86	-13	PASS
Band5	4233	4	849.00	-31.87	-13	PASS
Band5	4233	5	849.11	-28.76	-13	PASS

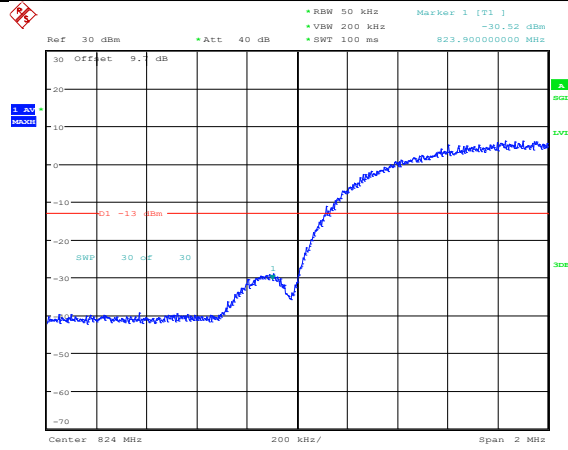
Band5-4132



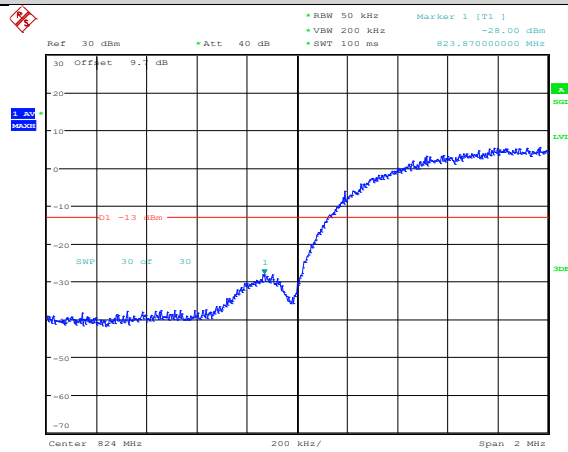
Band5-4233



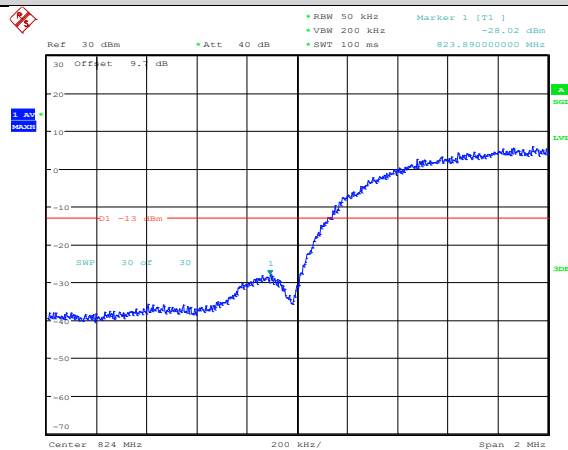
Band5-4132-1



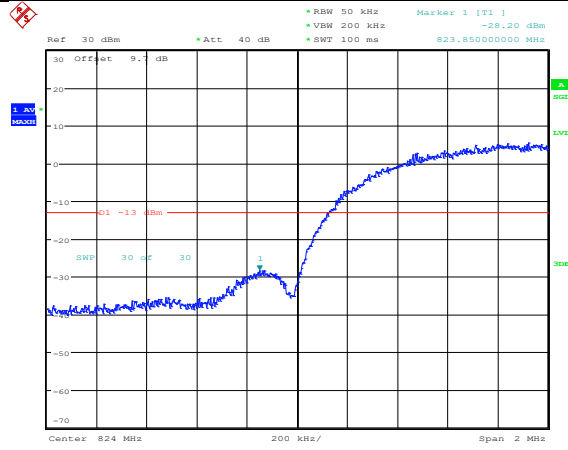
Band5-4132-2



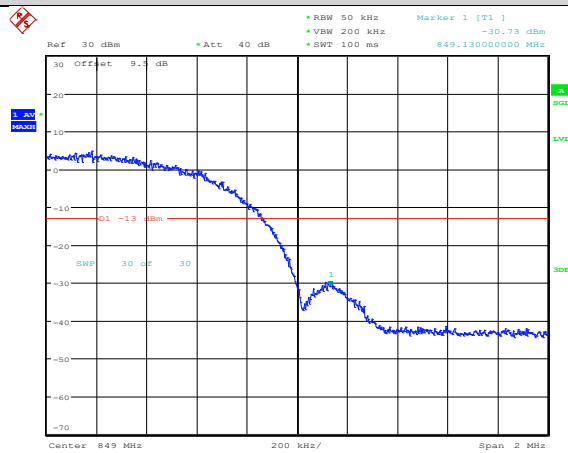
Band5-4132-3



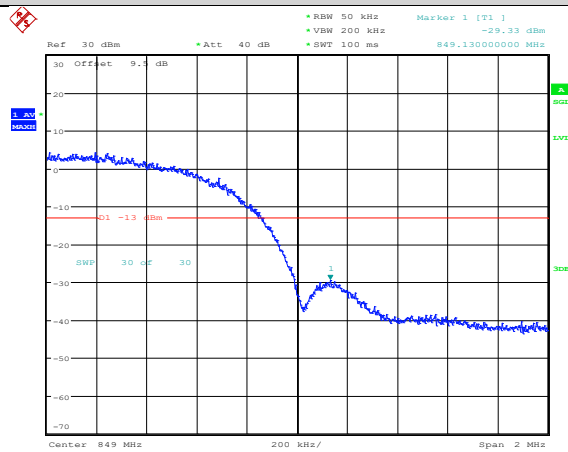
Band5-4132-4



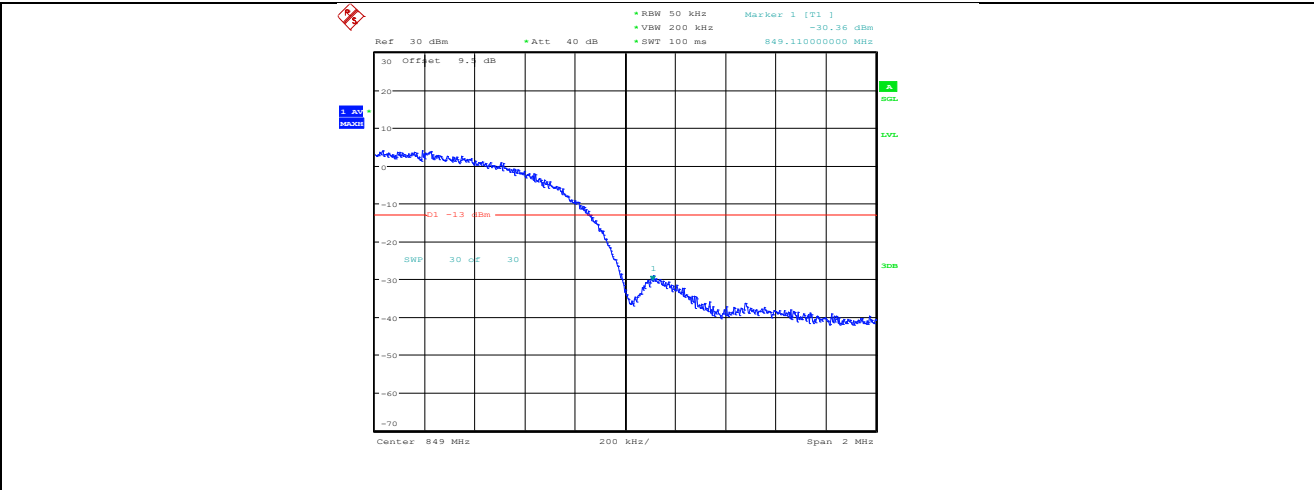
Band5-4233-1



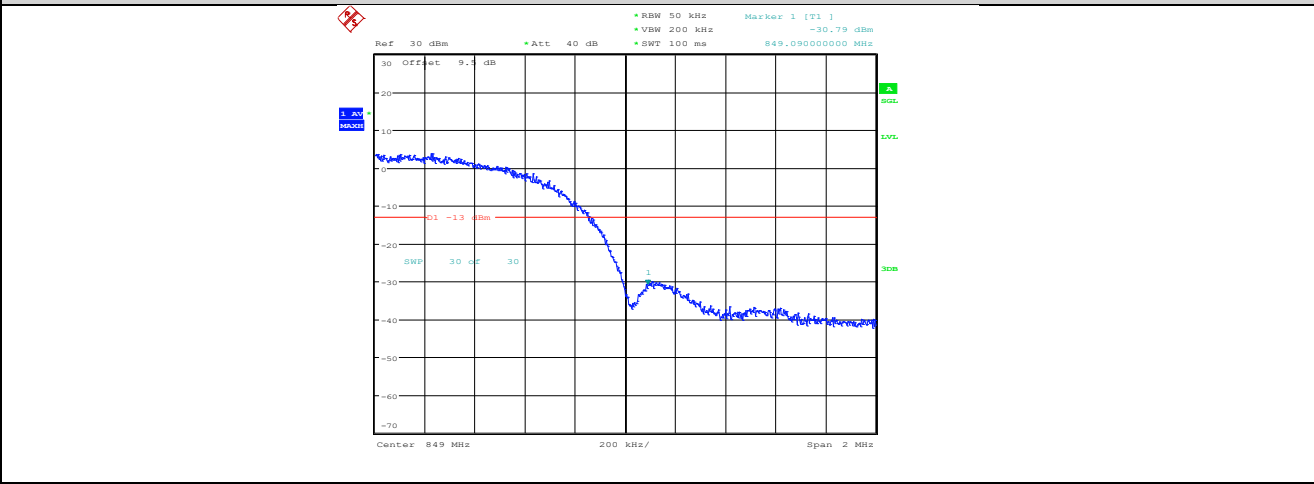
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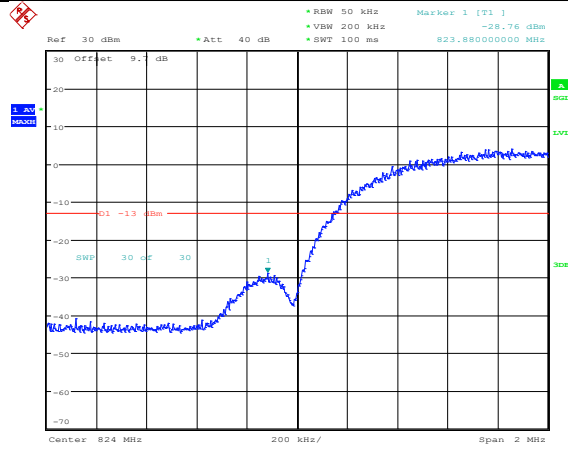
Band5-4233-3



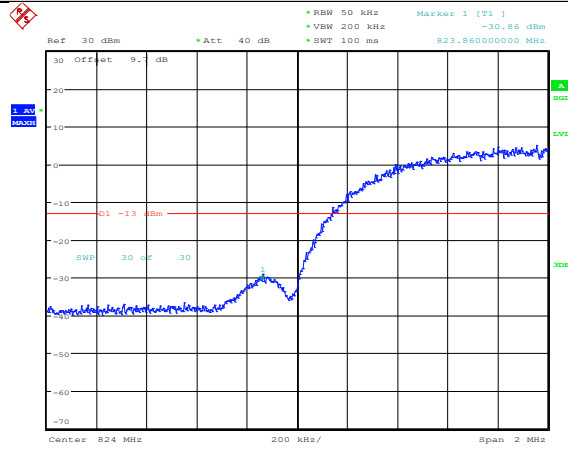
Band5-4233-4



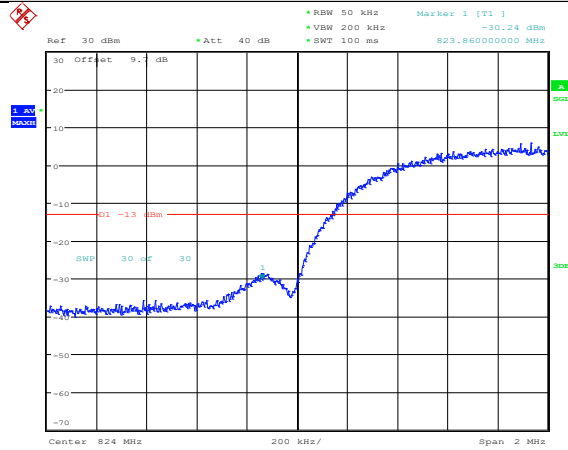
Band5-4132-1



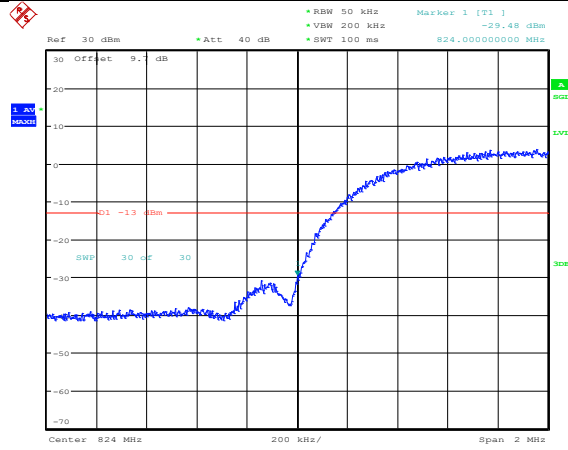
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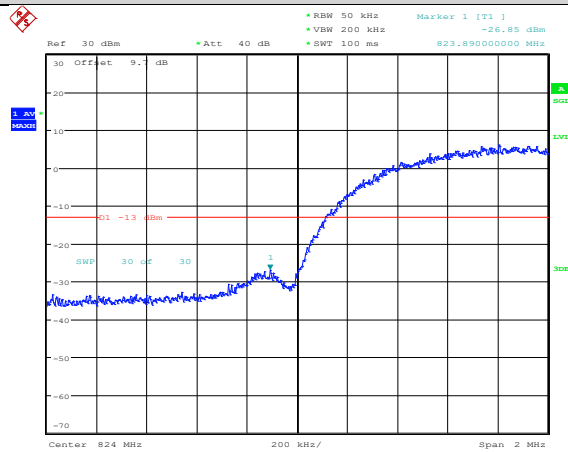
Band5-4132-3



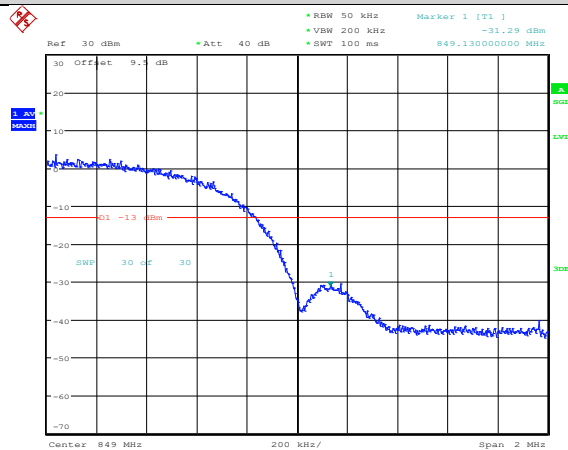
Band5-4132-4



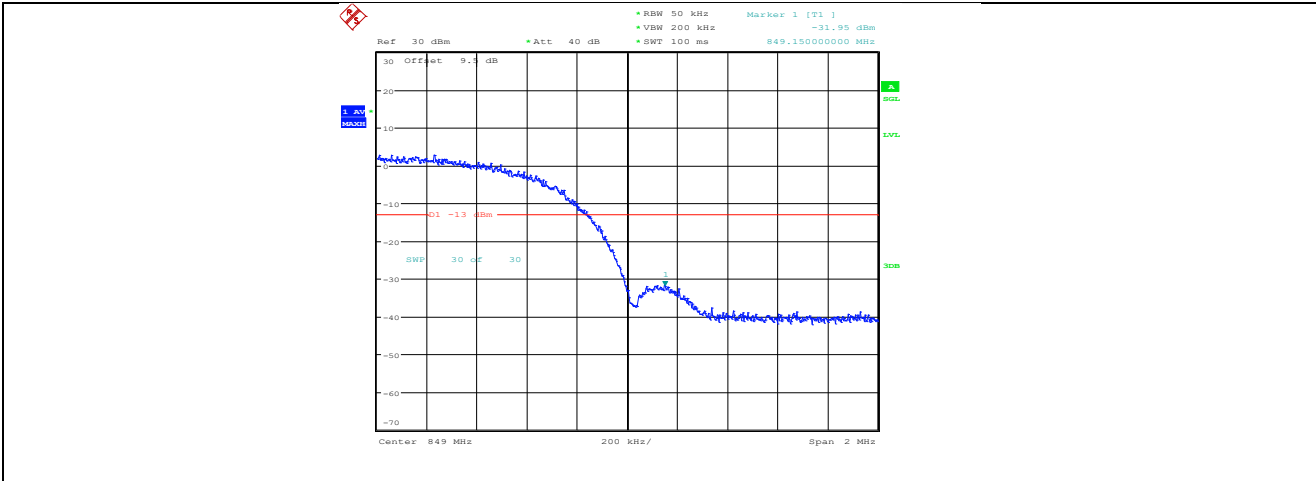
Band5-4132-5



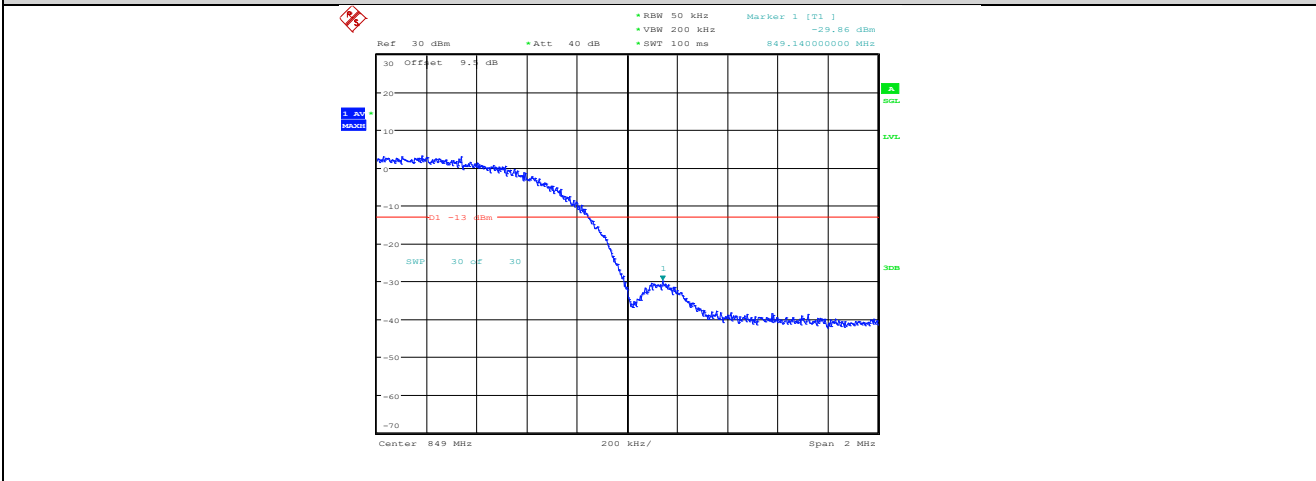
Band5-4233-1



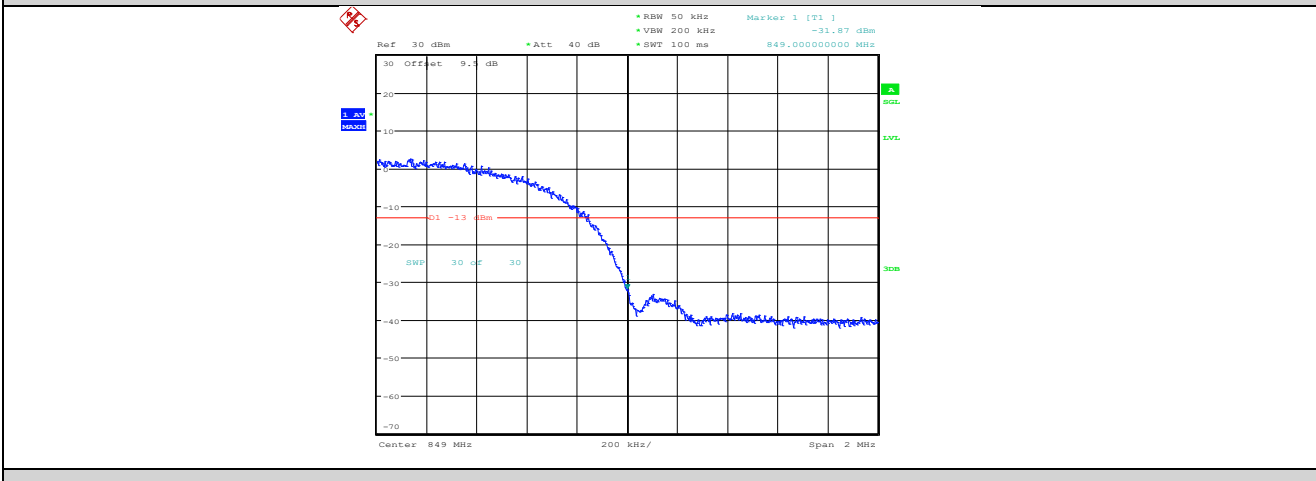
Band5-4233-2



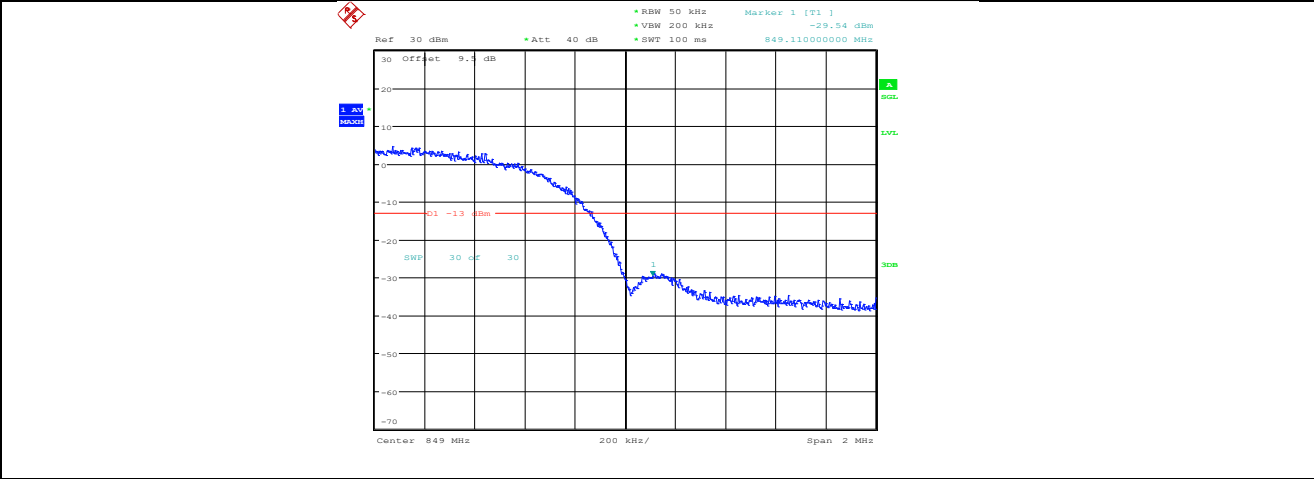
Band5-4233-3



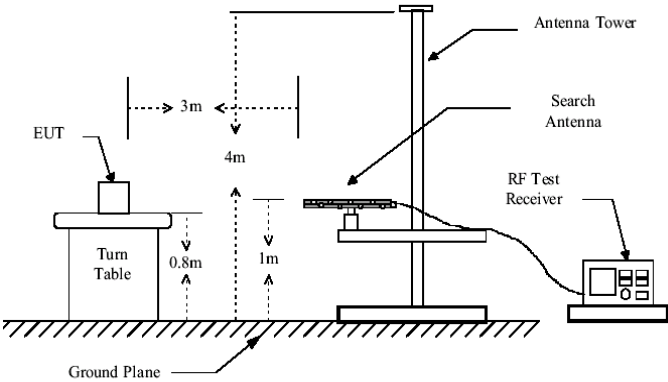
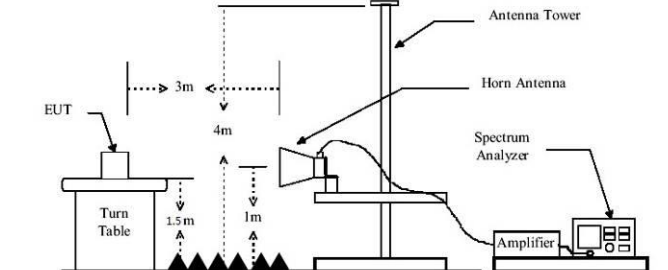
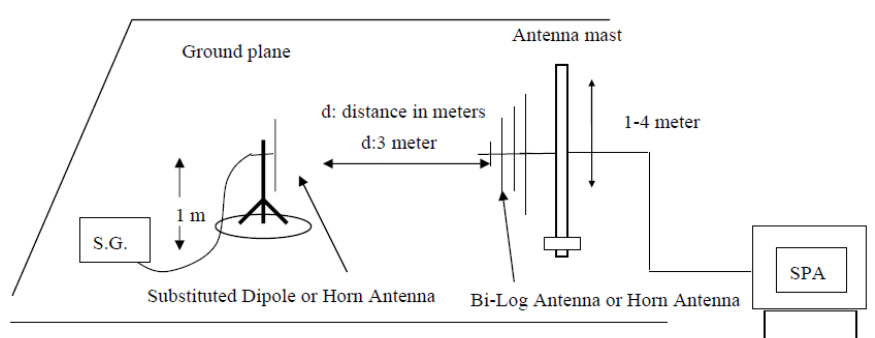
Band5-4233-4



Band5-4233-5



4.8 ERP, EIRP Measurement

<p>Test Requirement:</p>	<p>FCC part22.913(a) and FCC part24.232(b)</p>
<p>Test Method:</p>	<p>FCC part2.1046</p>
<p>Limit:</p>	<p>GSM850, WCDMA Band V: 7W PCS1900, WCDMA Band II: 2W WCDMA Band IV: 1W</p>
<p>Test setup:</p>	<p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p> 

<p>Test Procedure:</p>	<ol style="list-style-type: none"> 1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated. 3. ERP in frequency band 824.2 –848.80.8MHz were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated asfollows: $\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$ 4. EIRP in frequency band 1850.2 –1909.8MHz were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows: $\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$
<p>Test Instruments:</p>	<p>Refer to section 5.0 for details</p>
<p>Test mode:</p>	<p>Refer to section 6.1 for details</p>
<p>Test results:</p>	<p>Pass</p>

Measurement Data

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
GSM850 (GSM link)	Lowest	H	V	33.66	38.45	Pass
			H	32.69		
		E1	V	34.67		
			H	30.12		
		E2	V	34.02		
			H	30.68		
	Middle	H	V	34.35	38.45	Pass
			H	32.52		
		E1	V	34.37		
			H	30.13		
		E2	V	34.24		
			H	30.24		
	Highest	H	V	35.07	38.45	Pass
			H	32.49		
		E1	V	35.14		
			H	30.62		
		E2	V	33.76		
			H	29.68		

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
GSM850 (GPRS 1 link)	Lowest	H	V	33.66	38.45	Pass
			H	32.36		
		E1	V	34.15		
			H	29.65		
		E2	V	33.92		
			H	29.97		
	Middle	H	V	33.56	38.45	Pass
			H	32.23		
		E1	V	34.83		
			H	30.79		
		E2	V	34.25		
			H	29.88		
	Highest	H	V	34.42	38.45	Pass
			H	32.50		
		E1	V	34.20		
			H	30.04		
		E2	V	33.61		
			H	30.54		

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
GSM850 (EGPRS 1 link)	Lowest	H	V	34.18	38.45	Pass
			H	32.25		
		E1	V	34.89		
			H	29.92		
		E2	V	34.27		
			H	30.70		
	Middle	H	V	34.08	38.45	Pass
			H	32.06		
		E1	V	34.11		
			H	30.95		
		E2	V	34.80		
			H	30.20		
	Highest	H	V	34.58	38.45	Pass
			H	32.59		
		E1	V	34.25		
			H	30.63		
		E2	V	34.34		
			H	29.72		

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result
PCS1900 (GSM link)	Lowest	H	V	31.88	33.01	Pass
			H	27.49		
		E1	V	30.32		
			H	28.20		
		E2	V	30.56		
			H	28.49		
	Middle	H	V	31.43	33.01	Pass
			H	27.88		
		E1	V	30.88		
			H	28.18		
		E2	V	31.65		
			H	27.52		
	Highest	H	V	30.33	33.01	Pass
			H	27.46		
		E1	V	31.93		
			H	27.96		
		E2	V	30.99		
			H	28.44		

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result
PCS1900 (GPRS 1 link)	Lowest	H	V	31.85	33.01	Pass
			H	28.10		
		E1	V	30.80		
			H	28.61		
		E2	V	30.76		
			H	27.94		
	Middle	H	V	31.36	33.01	Pass
			H	27.89		
		E1	V	31.01		
			H	28.21		
		E2	V	31.46		
			H	27.39		
	Highest	H	V	30.53	33.01	Pass
			H	27.70		
		E1	V	31.79		
			H	28.27		
		E2	V	30.40		
			H	28.24		

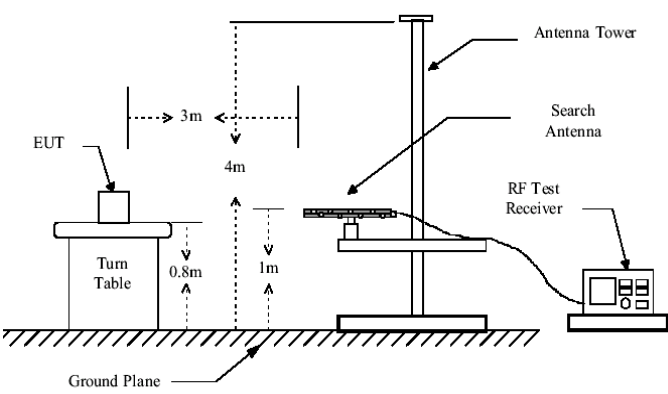
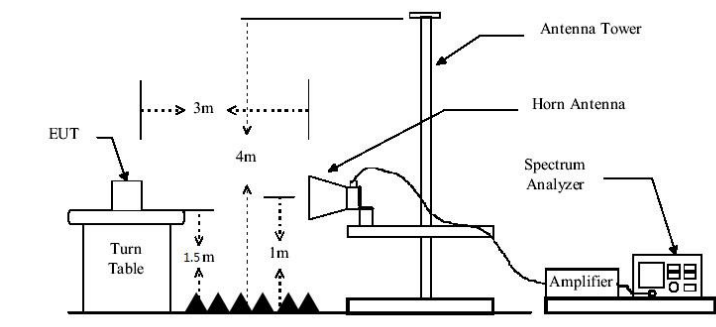
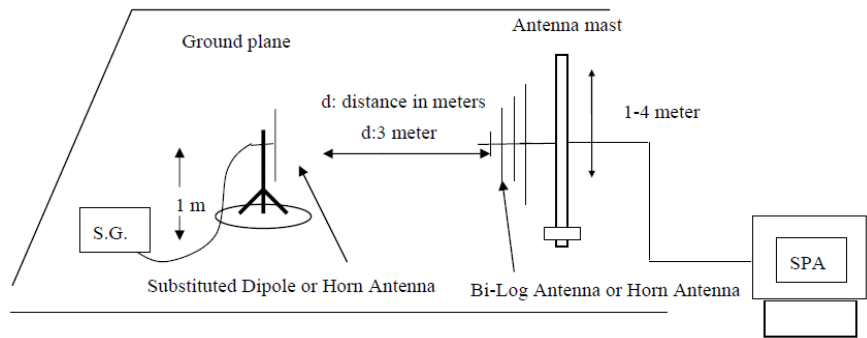
EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result
PCS1900 (EGPRS 1 link)	Lowest	H	V	31.64	33.01	Pass
			H	27.27		
		E1	V	30.18		
			H	28.16		
		E2	V	29.99		
			H	28.06		
	Middle	H	V	31.32	33.01	Pass
			H	27.65		
		E1	V	30.14		
			H	28.45		
		E2	V	31.73		
			H	27.64		
	Highest	H	V	30.46	33.01	Pass
			H	28.34		
		E1	V	31.55		
			H	28.23		
		E2	V	30.44		
			H	28.23		

EUT mode	Channel	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
WCDMA Band V	Lowest	H	V	31.64	38.45	Pass
			H	27.27		
		E1	V	30.18		
			H	28.16		
		E2	V	29.99		
			H	28.06		
	Middle	H	V	31.32	38.45	Pass
			H	27.65		
		E1	V	30.14		
			H	28.45		
		E2	V	31.73		
			H	27.64		
	Highest	H	V	30.46	38.45	Pass
			H	28.34		
		E1	V	31.55		
			H	28.23		
		E2	V	30.44		
			H	28.23		

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
WCDMA Band II	Lowest	H	V	24.16	33.01	Pass
			H	22.81		
		E1	V	24.43		
			H	22.90		
		E2	V	24.53		
			H	23.50		
	Middle	H	V	23.96	33.01	Pass
			H	23.55		
		E1	V	24.40		
			H	23.18		
		E2	V	24.72		
			H	23.41		
	Highest	H	V	24.16	33.01	Pass
			H	23.54		
		E1	V	23.99		
			H	22.81		
		E2	V	24.37		
			H	23.81		

EUT mode	Channel	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
WCDMA Band IV	Lowest	H	V	24.07	33.01	Pass
			H	23.15		
		E1	V	24.34		
			H	22.80		
		E2	V	24.48		
			H	23.96		
	Middle	H	V	23.78	33.01	Pass
			H	23.39		
		E1	V	24.74		
			H	23.82		
		E2	V	24.34		
			H	23.68		
	Highest	H	V	24.77	33.01	Pass
			H	23.39		
		E1	V	24.78		
			H	23.08		
		E2	V	23.82		
			H	23.57		

4.9 Field strength of spurious radiation measurement

Test Requirement:	FCC part22.917(a) and FCC part24.238(a)
Test Method:	FCC part2.1053
Limit:	-13dBm
Test setup:	<p>Below 1GHz</p>  <p>Above 1GHz</p>  <p>Substituted method:</p> 

Test Procedure:	<ol style="list-style-type: none"> 1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. 3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method. 4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 5.0 for details
Test mode:	Refer to section 6.1 for details
Test results:	Pass

Measurement Data

Test mode:	GSM850		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1648.24	Vertical	-36.21	-13.00	Pass
2472.31	V	-39.54		
3297.13	V	-38.35		
4121.53	V	-43.32		
4947.20	V	---		
1649.10	Horizontal	-39.12	-13.00	Pass
2472.24	H	-42.57		
3297.48	H	-45.63		
4130.25	H	-46.42		
4947.31	H	---		
Test mode:	GSM850		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1673.35	Vertical	-36.53	-13.00	Pass
2509.21	V	-39.74		
3346.23	V	-38.35		
4184.25	V	-43.27		
5020.31	V	---		
1658.58	Horizontal	-39.23	-13.00	Pass
2510.01	H	-42.53		
3356.53	H	-45.12		
4184.02	H	-45.54		
5019.53	H	---		
Test mode:	GSM850		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1697.86	Vertical	-36.47	-13.00	Pass
2547.12	V	-39.53		
3396.23	V	-37.01		
4243.53	V	-43.35		
5093.25	V	---		
1686.23	Horizontal	-39.38	-13.00	Pass
2547.31	H	-42.15		
3397.52	H	-45.12		
4253.01	H	-46.57		
5093.58	H	---		

Test mode:	PCS1900		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3700.40	Vertical	-36.80	-13.00	Pass
5550.60	V	-39.79		
7400.80	V	-38.24		
9251.00	V	-43.50		
11101.20	V	---		
3700.40	Horizontal	-39.24	-13.00	Pass
5550.60	H	-42.45		
7400.80	H	-45.36		
9251.00	H	-45.80		
11101.20	H	---		
Test mode:	PCS1900		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3760.00	Vertical	-36.59	-13.00	Pass
5640.00	V	-39.52		
7520.00	V	-38.06		
9400.00	V	-43.76		
11280.00	V	---		
3760.00	Horizontal	-39.08	-13.00	Pass
5640.00	H	-42.62		
7520.00	H	-45.04		
9400.00	H	-45.96		
11280.00	H	---		
Test mode:	PCS1900		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3819.60	Vertical	-37.28	-13.00	Pass
5729.40	V	-39.90		
7639.20	V	-37.68		
9549.00	V	-43.18		
11458.80	V	---		
3819.60	Horizontal	-39.24	-13.00	Pass
5729.40	H	-42.74		
7639.20	H	-44.85		
9549.00	H	-46.08		
11458.80	H	---		

Test mode:	WCDMA Band V		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1652.80	Vertical	-36.90	-13.00	Pass
2479.20	V	-39.25		
3305.60	V	-38.49		
4132.00	V	-43.67		
4958.40	V	---		
1652.80	Horizontal	-39.17	-13.00	Pass
2479.20	H	-42.40		
3305.60	H	-44.38		
4132.00	H	-45.90		
4958.40	H	---		
Test mode:	WCDMA Band V		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1672.80	Vertical	-36.78	-13.00	Pass
2509.20	V	-39.10		
3345.60	V	-37.95		
4182.00	V	-43.56		
5018.40	V	---		
1672.80	Horizontal	-39.11	-13.00	Pass
2509.20	H	-42.31		
3345.60	H	-44.50		
4182.00	H	-45.86		
5018.40	H	---		
Test mode:	WCDMA Band V		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1693.20	Vertical	-36.33	-13.00	Pass
2539.80	V	-39.75		
3386.40	V	-38.48		
4233.00	V	-43.09		
5079.60	V	---		
1693.20	Horizontal	-38.63	-13.00	Pass
2539.80	H	-42.38		
3386.40	H	-44.57		
4233.00	H	-45.98		
5079.60	H	---		

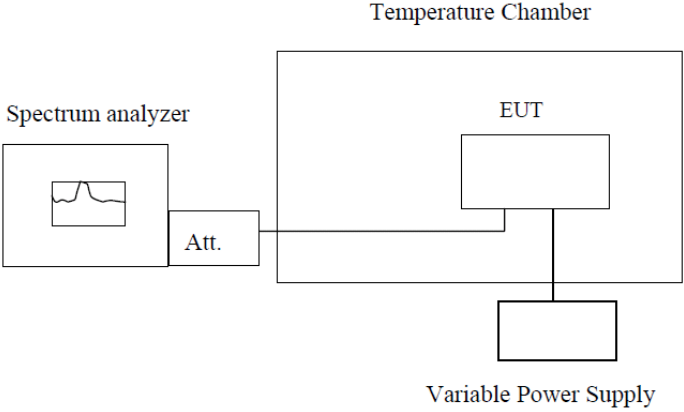
Test mode:	WCDMA Band II		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3704.80	Vertical	-37.14	-13.00	Pass
5557.20	V	-39.35		
7409.60	V	-38.07		
9262.00	V	-43.37		
11114.40	V	---		
3704.80	Horizontal	-38.93	-13.00	Pass
5557.20	H	-42.80		
7409.60	H	-44.64		
9262.00	H	-46.17		
11114.40	H	---		
Test mode:	WCDMA Band II		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3760.00	Vertical	-37.11	-13.00	Pass
5640.00	V	-39.31		
7520.00	V	-37.87		
9400.00	V	-43.53		
11280.00	V	---		
3760.00	Horizontal	-39.50	-13.00	Pass
5640.00	H	-42.23		
7520.00	H	-45.06		
9400.00	H	-46.14		
11280.00	H	---		
Test mode:	WCDMA Band II		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3815.20	Vertical	-36.70	-13.00	Pass
5722.80	V	-39.04		
7630.40	V	-37.54		
9538.00	V	-43.33		
11445.60	V	---		
3815.20	Horizontal	-39.05	-13.00	Pass
5722.80	H	-42.79		
7630.40	H	-45.23		
9538.00	H	-46.23		
11445.60	H	---		

Test mode:	WCDMA Band IV		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3424.8	Vertical	-36.78	-13.00	Pass
5137.2	V	-39.94		
10274.4	V	-37.90		
15411.6	V	-43.51		
30823.2	V	---		
3424.8	Horizontal	-39.44	-13.00	Pass
5137.2	H	-42.54		
10274.4	H	-44.55		
15411.6	H	-45.49		
30823.2	H	---		
Test mode:	WCDMA Band IV		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3480	Vertical	-36.85	-13.00	Pass
5220	V	-39.49		
10440	V	-38.36		
15660	V	-43.56		
31320	V	---		
3480	Horizontal	-39.24	-13.00	Pass
5220	H	-42.45		
10440	H	-44.82		
15660	H	-45.85		
31320	H	---		
Test mode:	WCDMA Band IV		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3505.2	Vertical	-36.72	-13.00	Pass
5257.8	V	-39.60		
10515.6	V	-38.25		
15773.4	V	-43.53		
31546.8	V	---		
3505.2	Horizontal	-39.31	-13.00	Pass
5257.8	H	-42.62		
10515.6	H	-45.10		
15773.4	H	-45.57		
31546.8	H	---		

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Remark"---" means that the emission level is too low to be measured
3. The emission levels of below 1 GHz are very lower than the limit and not show in test report.

4.10 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part2.1055(a)(1)(b)
Test Method:	FCC Part2.1055(a)(1)(b)
Limit:	2.5ppm
Test setup:	 <p style="text-align: center;">Note : Measurement setup for testing on Antenna connector</p>
Test procedure:	<ol style="list-style-type: none"> 1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to -20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.
Test Instruments:	Refer to section 5.0 for details
Test mode:	Refer to section 6.1 for details
Test results:	Pass

Measurement Data

Reference Frequency: GSM850 (GSM link) Middle channel=190 channel=836.6MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-20°C	5	0.0056	2.5	Pass
	-10°C	7	0.0024		
	-5°C	8	0.0086		
	0°C	5	0.0056		
	+10°C	2	0.0035		
	+20°C	4	0.0048		
	+30°C	3	0.0028		
	+40°C	3	0.0035		
	+50°C	5	0.0045		
Reference Frequency: GSM850 (GPRS 1 link) Middle channel=190 channel=836.6MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-20°C	6	0.0056	2.5	Pass
	-10°C	2	0.0035		
	-5°C	4	0.0048		
	0°C	5	0.0042		
	+10°C	6	0.0051		
	+20°C	2	0.0035		
	+30°C	3	0.0042		
	+40°C	5	0.0053		
	+50°C	2	0.0012		
Reference Frequency: GSM850 (EGPRS 1 link) Middle channel=190 channel=836.6MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-20°C	6	0.0045	2.5	Pass
	-10°C	6	0.0053		
	-5°C	4	0.0047		
	0°C	7	0.0023		
	+10°C	5	0.0053		
	+20°C	7	0.0074		
	+30°C	4	0.0053		
	+40°C	6	0.0053		
	+50°C	4	0.0044		

Reference Frequency: PCS1900 (GSM link) Middle channel=661 channel=1880MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error			Result
		Hz	ppm		
3.8	-20°C	2	0.0035	2.5	Pass
	-10°C	6	0.0024		
	-5°C	3	0.0021		
	0°C	4	0.0023		
	+10°C	7	0.0034		
	+20°C	6	0.0028		
	+30°C	5	0.0032		
	+40°C	5	0.0041		
	+50°C	4	0.0035		
Reference Frequency: PCS1900 (GPRS 1 link) Middle channel=661 channel=1880MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error			Result
		Hz	ppm		
3.8	-20°C	6	0.0041	2.5	Pass
	-10°C	8	0.0035		
	-5°C	5	0.0028		
	0°C	7	0.0041		
	+10°C	3	0.0032		
	+20°C	6	0.0041		
	+30°C	4	0.0034		
	+40°C	4	0.0041		
	+50°C	3	0.0017		
Reference Frequency: PCS1900 (EGPRS 1 link) Middle channel=661 channel=1880MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error			Result
		Hz	ppm		
3.8	-20°C	3	0.0035	2.5	Pass
	-10°C	3	0.0018		
	-5°C	8	0.0044		
	0°C	7	0.0065		
	+10°C	6	0.0014		
	+20°C	7	0.0042		
	+30°C	5	0.0053		
	+40°C	8	0.0047		
	+50°C	4	0.0036		

Reference Frequency: WCDMA Band V Middle channel=4183 channel=836.6MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-20°C	7	0.0058	2.5	Pass
	-10°C	6	0.0034		
	-5°C	4	0.0052		
	0°C	4	0.0048		
	+10°C	4	0.0053		
	+20°C	8	0.0076		
	+30°C	4	0.0053		
	+40°C	4	0.0041		
	+50°C	8	0.0084		
Reference Frequency: WCDMA Band II Middle channel=9400 channel=1880.0MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-20°C	4	0.0021	2.5	Pass
	-10°C	4	0.0035		
	-5°C	6	0.0041		
	0°C	8	0.0035		
	+10°C	7	0.0055		
	+20°C	8	0.0047		
	+30°C	3	0.0025		
	+40°C	6	0.0014		
	+50°C	6	0.0025		
Reference Frequency: WCDMA Band IV Middle channel=1450 channel=1740.0MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
3.8	-20°C	7	0.0054	2.5	Pass
	-10°C	3	0.0053		
	-5°C	3	0.0027		
	0°C	3	0.0038		
	+10°C	4	0.0042		
	+20°C	3	0.0025		
	+30°C	6	0.0025		
	+40°C	6	0.0031		
	+50°C	5	0.0028		

4.11 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part2.1055(d)(1)(2)
Test Method:	FCC Part2.1055(d)(1)(2)
Limit:	2.5ppm
Test setup:	<div style="text-align: center;"> <p>The diagram shows a Spectrum analyzer on the left, connected to an Attenuator (Att.) box. The Attenuator is connected to the EUT (Equipment Under Test) box, which is located inside a larger Temperature Chamber box. The EUT is also connected to a Variable Power Supply box located below the Temperature Chamber.</p> </div> <p>Note : Measurement setup for testing on Antenna connector</p>
Test procedure:	<ol style="list-style-type: none"> 1. Set chamber temperature to 25°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 5.0 for details
Test mode:	Refer to section 6.1 for details
Test results:	Pass

Measurement Data

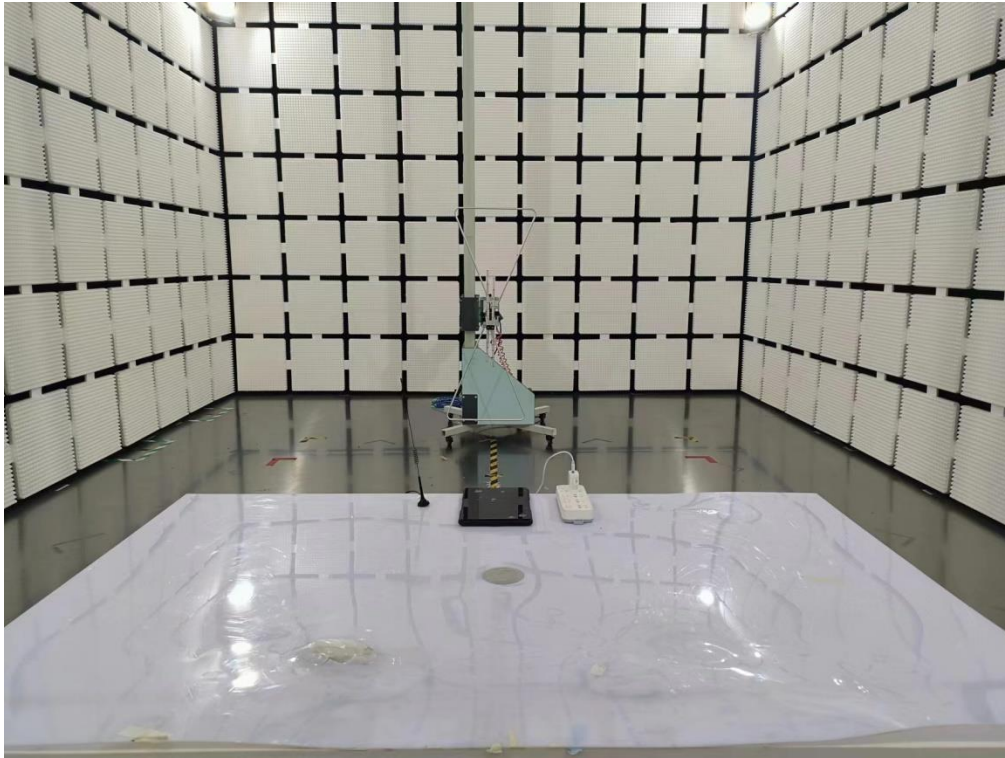
Reference Frequency: GSM850 (GSM link) Middle channel=190 channel=836.6MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.18	6	0.0058	2.5	Pass
	3.80	2	0.0031		
	3.61	3	0.0043		
Reference Frequency: GSM850 (GPRS 1 link) Middle channel=190 channel=836.6MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.18	6	0.0025	2.5	Pass
	3.80	6	0.0065		
	3.61	6	0.0047		
Reference Frequency: GSM850 (EGPRS 1 link) Middle channel=190 channel=836.6MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.18	5	0.0043	2.5	Pass
	3.80	4	0.0031		
	3.61	3	0.0052		

Reference Frequency: PCS1900 (GSM link) Middle channel=661 channel=1880MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.18	8	0.0058	2.5	Pass
	3.80	6	0.0043		
	3.61	5	0.0029		
Reference Frequency: PCS1900 (GPRS 1 link) Middle channel=661 channel=1880MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.18	5	0.0031	2.5	Pass
	3.80	4	0.0025		
	3.61	3	0.0032		
Reference Frequency: PCS1900 (EGPRS 1 link) Middle channel=661 channel=1880MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.18	7	0.0042	2.5	Pass
	3.80	7	0.0051		
	3.61	4	0.0039		

Reference Frequency: WCDMA Band V Middle channel=4183 channel=836.6MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.18	2	0.0033	2.5	Pass
	3.80	3	0.0041		
	3.61	7	0.0057		
Reference Frequency: WCDMA Band II Middle channel=940 channel=1880.0MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.18	6	0.0043	2.5	Pass
	3.80	4	0.0035		
	3.61	4	0.0054		
Reference Frequency: WCDMA Band IV Middle channel=1450 channel=1740.0MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	4.18	4	0.0031	2.5	Pass
	3.80	4	0.0047		
	3.61	7	0.0028		

5 Test Setup Photo

Radiated Emission



-----END OF REPORT-----