



RADIO TEST REPORT

Report No:STS2007251W01

Issued for

Spark Technology Labs Inc.

680 Davenport Rd., Unit D, Waterloo, ON, Canada N2V 2C3

Product Name:	CH4G Asset Tracker	
Brand Name:	CloudHawk	
Model Name:	CH4G	
Series Model:	N/A	
FCC ID:	2AA5OCH4G	
IC:	21738-CH4G	
Test Standard:	47 CFR FCC Part 22 RSS-132 Issue 3 47 CFR FCC Part 24 RSS-133 Issue 6 47 CFR FCC Part 27 RSS-130 Issue 2 47 CFR FCC Part 90 RSS-139 Issue 3 47 CFR FCC Part 2 RSS-Gen Issue 5	

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**TEST RESULT CERTIFICATION****Applicant's Name**.....: Spark Technology Labs Inc.

Address: 680 Davenport Rd., Unit D, Waterloo, ON, Canada N2V 2C3

Manufacture's Name: Spark Technology Labs Inc.

Address: 680 Davenport Rd., Unit D, Waterloo, ON, Canada N2V 2C3

Product Description

Product Name: CH4G Asset Tracker

Brand Name: CloudHawk

Model Name: CH4G

Series Model: N/A

Test Standards:	47 CFR FCC Part 22	RSS-132 Issue 3
	47 CFR FCC Part 24	RSS-133 Issue 6
	47 CFR FCC Part 27	RSS-130 Issue 2
	47 CFR FCC Part 90	RSS-139 Issue 3
	47 CFR FCC Part 2	RSS-Gen Issue 5

Test Procedure: KDB 971168 D01 v03r01, ANSI C63.26 2015

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC/IC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test.....:

Date of receipt of test item.....: 16 July 2020

Date (s) of performance of tests.: 16 July 2020 ~ 30 July 2020

Date of Issue: 30 July 2020

Test Result: Pass

Testing Engineer :

(Chris Chen)

Technical Manager :

(Sean she)

Authorized Signatory :

(Vita Li)





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**Revision History**

Rev.	Issue Date	Report NO.	Effect Page	Contents
00	30 July 2020	STS2007251W01	ALL	Initial Issue





1. TEST FACTORY & MEASUREMENT UNCERTAINTY

1.1 TEST RESULTS DESCRIPTION AND LABORATORY INFORMATION

Rule	Description	Limit	Result
§27.50(c)(10)	Effective Radiated Power	ERP < 3 Watt	PASS
§24.232(c) §27.50(h)(2) RSS-133 Issue 6, January 2013 (6.4) RSS-199 Issue 3, December 2016(4.4)	Equivalent Isotropic Radiated Power	EIRP < 2Watt	PASS
§27.50(d)(4) RSS-139 Issue 3, July 2015 (6.4) SRSP-513(5.1.2)	Equivalent Isotropic Radiated Power	EIRP < 1Watt	PASS
§22.913	Effective Radiated Power	ERP < 7 Watt	PASS
§90.635(b)	Effective Radiated Power	ERP < 100Watt	PASS
§2.1053 §22.917 §24.238(a) §27.53(g) §27.53(h) RSS-132 Issue 3, January 2013(5.5) RSS-133 Issue 6, January 2013 (6.5.1) RSS-139 Issue 3, July 2015 (6.5)	Radiated Spurious Emission	< 43+10log10(P[Watts])	PASS
§2.1053 §27.53(m)(4)	Radiated Spurious Emission	< 55+10log10(P[Watts])	PASS
RSS-132 Issue 3, January 2013(5.6) RSS-133 Issue 6, January 2013(6.6) RSS-Gen Issue 5, March 2019 (7.3)	Receiver spurious emissions	See report section 5.1.	PASS

The module has been certified by FCC/IC, The original module FCC ID is R17ME910G1WW, IC is 513A-ME910G1WW. The report number of FCC&IC certified is STS1912245W01.

In this report, this certified module is same as the original module. We have tested the new radiated power and radiated emission.



1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01

1.3 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expanded uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %.

No.	Item	Uncertainty
1	RF output power, conducted	$\pm 0.68\text{dB}$
2	Unwanted Emissions, conducted	$\pm 2.988\text{dB}$
3	All emissions, radiated 30-1GHz	$\pm 6.7\text{dB}$
4	All emissions, radiated 1G-6GHz	$\pm 5.5\text{dB}$
5	All emissions, radiated >6G	$\pm 5.8\text{dB}$
6	Conducted Emission (9KHz-150KHz)	$\pm 3.37\text{dB}$
7	Conducted Emission (150KHz-30MHz)	$\pm 3.83\text{dB}$



2. GENERAL INFORMATION

2.1 TECHNICAL SPECIFICATIONS AND REGULATIONS

2.1.1 PRODUCT DESCRIPTION

A major technical description of EUT is described as following:

Product Name:	CH4G Asset Tracker
Trade Name	CloudHawk
Model Name	CH4G
Series Model	N/A
Model Difference	N/A
Frequency Bands:	CAT-M FDD Band 2 CAT-M FDD Band 4 CAT-M FDD Band 5 CAT-M FDD Band 12 CAT-M FDD Band 13 CAT-M FDD Band 25 CAT-M FDD Band 26 CAT-M FDD Band 66 CAT-M FDD Band 85
SIM CARD:	Only support single SIM Card.
Antenna:	Internal monopole
Antenna gain:	-2 dBi for CAT-M FDD Band 2/4/5/12/13/25/26/66/85
Battery:	Capacity: 5200 mAh Rated Voltage: 3.7V Charge Limit: 4.2V
Power Rating:	Input: 12~24V DC
Extreme Voltage:	3.5V to 4.2V (Normal: 3.7V)
Extreme Temperature:	-20℃ to +45℃
Hardware version number:	Rev. B
Software version number:	M0C.400001



2.1.2 PRODUCT SPECIFICATION SUBJECTIVE TO THIS STANDARD

Product Specification Subjective To This Standard	
Tx Frequency	CAT-M Band 2:1850~1910MHz CAT-M Band 4:1710~1755MHz CAT-M Band 5:824~849MHz CAT-M Band 12:699~716MHz CAT-M Band 13:777~787MHz CAT-M Band 25:1850~1915MHz CAT-M Band 26:814~849MHz CAT-M Band 66:1710~1780MHz CAT-M Band 85:698~716MHz
Rx Frequency	CAT-M Band 2:1930 ~1990MHz CAT-M Band 4:2110~2155MHz CAT-M Band 5:869~894MHz CAT-M Band 12:729~746MHz CAT-M Band 13:746~756MHz CAT-M Band 25:1930~1995MHz CAT-M Band 26:859~894MHz CAT-M Band 66:2110~2200MHz CAT-M Band 85:728~746MHz
Bandwidth	CAT-M Band 2: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz CAT-M Band 4: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz CAT-M Band 5: 1.4MHz / 3MHz / 5MHz / 10MHz CAT-M Band 12: 1.4MHz / 3MHz / 5MHz / 10MHz CAT-M Band 13: 5MHz / 10MHz CAT-M Band 25: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz CAT-M Band 26: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz CAT-M Band 66: 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz CAT-M Band 85: 5MHz / 10MHz
Type of Modulation	QPSK /16QAM

List of Frequencies under Test

Operation bands	Mode	Channel Bandwidth (MHz)	Frequencies under Test					
			EARFCN	CH _{Low} (MHz)	EARFCN	CH _{Mid} (MHz)	EARFCN	CH _{High} (MHz)
2	TX	1.4	18607	1850.7	18900	1880	19193	1909.3
		3	18615	1851.5	18900	1880	19185	1908.5
		5	18625	1852.5	18900	1880	19175	1907.5
		10	18650	1855	18900	1880	19150	1905
		15	18675	1857.5	18900	1880	19125	1902.5
		20	18700	1860	18900	1880	19100	1900
	RX	1.4	607	1930.7	900	1960	1193	1989.3
		3	615	1931.5	900	1960	1185	1988.5
		5	625	1932.5	900	1960	1175	1987.5
		10	650	1935	900	1960	1150	1985
		15	675	1937.5	900	1960	1125	1982.5
		20	700	1940	900	1960	1100	1980



4	TX	1.4	19957	1710.7	20175	1732.5	20393	1754.3
		3	19965	1711.5	20175	1732.5	20385	1753.5
		5	19975	1712.5	20175	1732.5	20375	1752.5
		10	20000	1715	20175	1732.5	20350	1750
		15	20025	1717.5	20175	1732.5	20325	1747.5
		20	20050	1720	20175	1732.5	20300	1745
	RX	1.4	1957	2110.7	2175	2132.5	2393	2154.3
		3	1965	2111.5	2175	2132.5	2385	2153.5
		5	1975	2112.5	2175	2132.5	2375	2152.5
		10	2000	2115	2175	2132.5	2350	2150
		15	2025	2117.5	2175	2132.5	2325	2147.5
		20	2050	2120	2175	2132.5	2300	2145
5	TX	1.4	20407	824.7	20525	836.5	20643	848.3
		3	20415	825.5	20525	836.5	20635	847.5
		5	20425	826.5	20525	836.5	20625	846.5
		10	20450	829	20525	836.5	20600	844
	RX	1.4	2407	869.7	2525	881.5	2643	893.3
		3	2415	870.5	2525	881.5	2635	892.5
		5	2425	871.5	2525	881.5	2625	891.5
		10	2450	874	2525	881.5	2600	889
12	TX	1.4	23017	699.7	23095	707.5	23173	715.3
		3	23025	700.5	23095	707.5	23165	714.5
		5	23035	701.5	23095	707.5	23155	713.5
		10	23060	704	23095	707.5	23130	711
	RX	1.4	5017	729.7	5095	737.5	5173	745.3
		3	5025	730.5	5095	737.5	5165	744.5
		5	5035	731.5	5095	737.5	5155	743.5
		10	5060	734	5095	737.5	5130	741
13	TX	5	23205	779.5	23230	782	23255	784.5
		10	23230	782	23230	782	23230	782
	RX	5	5205	748.5	5230	751	5255	753.5
		10	5230	751	5230	751	5230	751
25	TX	1.4	26047	1850.7	26365	1882.5	26683	1914.3
		3	26055	1851.5	26365	1882.5	26675	1913.5
		5	26065	1852.5	26365	1882.5	26665	1912.5
		10	26090	1855	26365	1882.5	26640	1910
		15	26115	1857.5	26365	1882.5	26615	1907.5
		20	26140	1860	26365	1882.5	26590	1905
	RX	1.4	8047	1930.7	8365	1962.5	8683	1994.3
		3	8055	1931.5	8365	1962.5	8675	1993.5
		5	8065	1932.5	8365	1962.5	8665	1992.5
		10	8090	1935	8365	1962.5	8640	1990
		15	8115	1937.5	8365	1962.5	8615	1987.5
		20	8140	1940	8365	1962.5	8590	1985



26_Lower Band (814 – 824 MHz)	TX	1.4	26697	814.7	26740	819	26783	823.3
		3	26705	815.5	26740	819	26775	822.5
		5	26715	816.5	26740	819	26765	821.5
		10	26740	819	26740	819	26740	819
	RX	1.4	8697	859.7	8740	864	8783	868.3
		3	8705	860.5	8740	864	8775	867.5
		5	8715	861.5	8740	864	8765	866.5
		10	8740	864	8740	864	8740	864
26_Upper Band (824-849 MHz)	TX	1.4	26797	824.7	26915	836.5	27033	848.3
		3	26805	825.5	26915	836.5	27025	847.5
		5	26815	826.5	26915	836.5	27015	846.5
		10	26840	829	26915	836.5	26990	844
		15	26865	831.5	26915	836.5	26965	841.5
	RX	1.4	8797	869.7	8915	881.5	9033	893.3
		3	8805	870.5	8915	881.5	9025	892.5
		5	8815	871.5	8915	881.5	9015	891.5
		10	8840	874	8915	881.5	8990	889
		15	8865	876.5	8915	881.5	8965	886.5
66	TX	1.4	131979	1710.7	132322	1745	132665	1779.3
		3	131987	1711.5	132322	1745	132657	1778.5
		5	131997	1712.5	132322	1745	132647	1777.5
		10	132022	1715	132322	1745	132622	1775
		15	132047	1717.5	132322	1745	132597	1772.5
		20	132047	1717.5	132322	1745	132572	1770
	RX	1.4	66443	2110.7	66786	2145	67129	2179.3
		3	66451	2111.5	66786	2145	67121	2178.5
		5	66461	2112.5	66786	2145	67111	2177.5
		10	66486	2115	66786	2145	67086	2175
		15	66511	2117.5	66786	2145	67061	2172.5
		20	66536	2120	66786	2145	67036	2170
85	TX	5	134027	700.5	134092	707	134157	713.5
		10	134052	703	134092	707	134132	711
	RX	5	70391	730.5	70456	737	70521	743.5
		10	70416	733	70456	737	70496	741



2.1.3 TEST CONFIGURATION OF EQUIPMENT UNDER TEST

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 v03r01 and ANSI C63.26 2015 Power Meas. License Digital Systems with maximum output power. Radiated measurements are performed by rotating the EUT in three different orthogonal test planes to find the maximum emission.

Remark:

1. The mark 'v' means that this configuration is chosen for testing
2. The mark '-' means that this bandwidth is not supported.
3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated

ITEMS	Band	Bandwidth (MHz)						Modulation		RB #		Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Full	L	M	H
Radiated Spurious Emission	2	v	v	v	v	v	v	v	v	v		v	v	v
	4	v	v	v	v	v	v	v	v	v		v	v	v
	5	v	v	v	v			v	v	v		v	v	v
	12	v	v	v	v			v	v	v		v	v	v
	13			v	v			v	v	v			v	
	25	v	v	v	v	v	v	v	v	v		v	v	v
	26	v	v	v	v	v		v	v	v		v	v	v
	66	v	v	v	v	v	v	v	v	v		v	v	v
	85			v	v			v	v	v			v	
E.R.P.& E.I.R.P.	2	v	v	v	v	v	v	v	v	v		v	v	v
	4	v	v	v	v	v	v	v	v	v		v	v	v
	5	v	v	v	v			v	v	v		v	v	v
	7			v	v	v	v	v	v	v		v	v	v
	12	v	v	v	v			v	v	v		v	v	v
	13			v	v			v	v	v			v	
	17			v	v			v	v	v		v	v	v
	25	v	v	v	v	v	v	v	v	v		v	v	v
	26	v	v	v	v	v		v	v	v		v	v	v
	66	v	v	v	v	v	v	v	v	v		v	v	v
	85			v	v			v	v	v			v	



2.1.4 RELATED SUBMITTAL(S) / GRANT (S)

This submittal(s) (test report) is intended for filing to comply with below standards:

47 CFR FCC Part 22	RSS-132 Issue 3
47 CFR FCC Part 24	RSS-133 Issue 6
47 CFR FCC Part 27	RSS-130 Issue 2
47 CFR FCC Part 90	RSS-139 Issue 3
47 CFR FCC Part 2	RSS-Gen Issue 5

2.1.5 SPECIAL ACCESSORIES

The battery and the charger, earphone supplied by the applicant were used as accessories and being tested with eut intended for fcc grant together.

2.1.6 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.1.7 EUT EXERCISE

The Transmitter was operated in the maximum output power mode through Communication Tester. The TX frequency was fixed which was for the purpose of the measurements.

2.1.8 CONFIGURATION OF EUT SYSTEM

The EUT configuration for testing is installed on RF field strength measurement to meet the Commission's requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

E-1
EUT

Equipment Used in EUT System

Item	Equipment	Model No.	Serial No.	Note
N/A	N/A	N/A	N/A	N/A

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.



2.1.9 MEASUREMENT INSTRUMENTS

The radiated emission testing was performed according to the procedures of ANSI C63.26 2015 and FCC CFR 47 rules of 2.1046, 2.1047, 2.1049, 2.1051, 2.1053, 2.1055, 2.1057.

Radiation Test equipment

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Test Receiver	R&S	ESCI	101427	2019.10.09	2020.10.08
Signal Analyzer	Agilent	N9020A	MY51110105	2020.03.05	2021.03.04
Wireless Communications Test Set	R&S	CMW 500	133884	2020.03.05	2021.03.04
Bilog Antenna	TESEQ	CBL6111D	34678	2017.11.02	2020.11.01
Horn Antenna	SCHWARZBECK	BBHA 9120D(1201)	9120D-1343	2018.10.19	2021.10.18
SHF-EHF Horn Antenna (18G-40GHz)	A-INFO	LB-180400-KF	J211020657	2018.03.11	2021.03.10
Pre-Amplifier(0.1M-3GHz)	EM	EM330	060665	2019.10.09	2020.10.08
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2019.10.12	2020.10.11
Pre-Amplifier (18G-40GHz)	SKET	LNPA-1840-50	SK2018101801	2019.10.12	2020.10.11
turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
Temperature & Humidity	HH660	Mieo	N/A	2019.10.17	2020.10.16
Test SW	BULUN	BL410-E/18.905			

RF Connected Test

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Universal Radio communication tester	R&S	CMU200	119907	2020.10.11	2021.10.10
Wireless Communications Test Set	R&S	CMW 500	133884	2020.03.05	2021.03.04
Signal Analyzer	Agilent	N9020A	MY49100060	2019.10.09	2020.10.08
Temperature & Humidity	HH660	Mieo	N/A	2019.10.17	2020.10.16
Test SW	FARAD	LZ-RF /LzRf-3A3			



2.1.10 MEASUREMENT RESULTS EXPLANATION EXAMPLE

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator factor between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Offset = RF Cable Loss + Attenuator Factor.



3. RADIATED POWER AND EFFECTIVE ISOTROPIC RADIATED POWER

3.1 DESCRIPTION OF THE ERP/EIRP MEASUREMENT

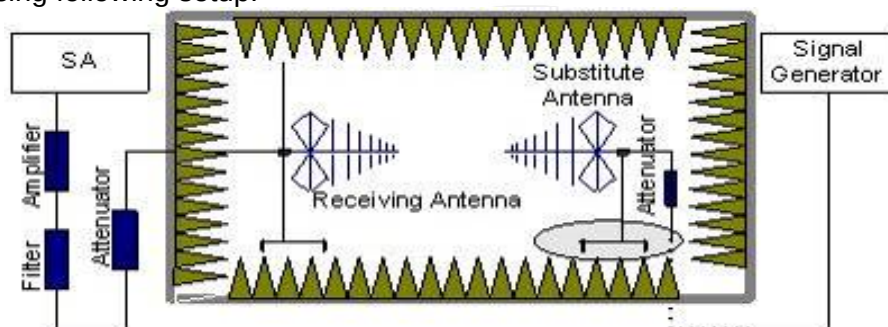
3.1.1 MEASUREMENT METHOD

Effective radiated power output measurements by substitution method according to ANSI C63.26 2015, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas. License Digital Systems. Mobile and portable (hand-held) stations operating are limited to average ERP, Equivalent isotropic radiated power output measurements by substitution method according to ANSI C63.26 2015, and the spectrum analyzer configuration follows KDB 971168 D01 Power Meas, Mobile and portable (hand-held) stations operating are limited to average EIRP.

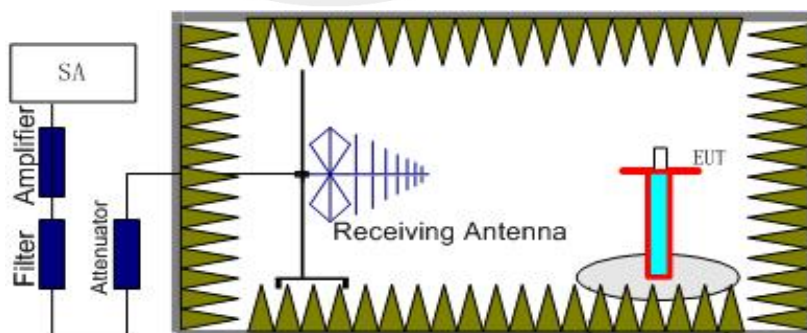
3.1.2 TEST SETUP

The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, $RSE = R_x \text{ (dBuV)} + CL \text{ (dB)} + SA \text{ (dB)} + Gain \text{ (dBi)} - 107 \text{ (dBuV to dBm)}$ The SA is calibrated using following setup.



b) EUT was placed on a 1.5m non-conductive stand at a 3 m test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 m from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic measured with peak detector and 1MHz bandwidth.



Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies. It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below:

$Power = P_{Mea} + AR_{pl}$



3.1.3 TEST PROCEDURES

1. The testing follows FCC KDB 971168 D01v03r01 Section 5.6 and ANSI C63.26 2015 Section 5.2.
2. The EUT was placed on a non-conductive rotating platform 1.5 meters high in a semi-anechoic chamber. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and a spectrum analyzer with Peak detector.
3. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power. The maximum emission was recorded from analyzer power level (LVL) from the 360 degrees rotation of the turntable and the test antenna raised and lowered over a range from 1 to 4 m in both horizontally and vertically polarized orientations.
4. Effective Isotropic Radiated Power (EIRP) was measured by substitution method according to ANSI C63.26 2015. The EUT was replaced by dipole antenna (substitution antenna) at same location and then a known power from S.G. was applied into the dipole antenna through a Tx cable, and then recorded the maximum Analyzer reading through raised and lowered the test antenna. The correction factor (in dB) = S.G. - Tx Cable loss + Substitution antenna gain - Analyzer reading. Then the EUT's EIRP was calculated with the correction factor, $EIRP/ERP = LVL + \text{Correction factor}$.
5. RB Set greater than bandwidth, VB Set spectrum analyzer Maximum support.





3.1.4 TEST RESULTS

Radiated Power (EIRP) for CAT-M Band 2 / 1.4M									
Modulation	RB		Channel	Result					Conclusion
				S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization	
	Size	Offset						Of Max. EIRP	
QPSK	1	0	Lowest	10.01	2.37	10.40	18.04	Horizontal	Pass
	1	0	Middle	10.45	2.39	10.42	18.48	Horizontal	Pass
	1	0	Highest	9.82	2.40	10.44	17.86	Horizontal	Pass
	1	0	Lowest	12.5	2.37	10.40	20.53	Vertical	Pass
	1	0	Middle	12.53	2.39	10.42	20.56	Vertical	Pass
	1	0	Highest	12.12	2.40	10.44	20.16	Vertical	Pass
16QAM	1	0	Lowest	9.36	2.37	10.40	17.39	Horizontal	Pass
	1	0	Middle	9.86	2.39	10.42	17.89	Horizontal	Pass
	1	0	Highest	9.33	2.40	10.44	17.37	Horizontal	Pass
	1	0	Lowest	12.23	2.37	10.40	20.26	Vertical	Pass
	1	0	Middle	12.01	2.39	10.42	20.04	Vertical	Pass
	1	0	Highest	11.89	2.40	10.44	19.93	Vertical	Pass
Limit	EIRP<2W=33dBm								

Radiated Power (EIRP) for CAT-M Band 2 / 3M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization	
								Of Max. EIRP	
QPSK	1	0	Lowest	10.58	2.37	10.40	18.61	Horizontal	Pass
	1	0	Middle	9.64	2.39	10.42	17.67	Horizontal	Pass
	1	0	Highest	9.62	2.40	10.44	17.66	Horizontal	Pass
	1	0	Lowest	12.83	2.37	10.40	20.86	Vertical	Pass
	1	0	Middle	12.59	2.39	10.42	20.62	Vertical	Pass
	1	0	Highest	12.33	2.40	10.44	20.37	Vertical	Pass
16QAM	1	0	Lowest	10.69	2.37	10.40	18.72	Horizontal	Pass
	1	0	Middle	9.86	2.39	10.42	17.89	Horizontal	Pass
	1	0	Highest	9.84	2.40	10.44	17.88	Horizontal	Pass
	1	0	Lowest	12.7	2.37	10.40	20.73	Vertical	Pass
	1	0	Middle	12.37	2.39	10.42	20.40	Vertical	Pass
	1	0	Highest	12.54	2.40	10.44	20.58	Vertical	Pass
Limit	EIRP<2W=33dBm								



Radiated Power (EIRP) for CAT-M Band 2 / 5M									
Modulation	RB		Channel	Result					Conclusion
				S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization	
	Size	Offset						Of Max. EIRP	
QPSK	1	0	Lowest	10.06	2.37	10.40	18.09	Horizontal	Pass
	1	0	Middle	9.86	2.39	10.42	17.89	Horizontal	Pass
	1	0	Highest	10.62	2.40	10.44	18.66	Horizontal	Pass
	1	0	Lowest	12.43	2.37	10.40	20.46	Vertical	Pass
	1	0	Middle	12.4	2.39	10.42	20.43	Vertical	Pass
	1	0	Highest	12.64	2.40	10.44	20.68	Vertical	Pass
16QAM	1	0	Lowest	10.1	2.37	10.40	18.13	Horizontal	Pass
	1	0	Middle	9.97	2.39	10.42	18.00	Horizontal	Pass
	1	0	Highest	9.68	2.40	10.44	17.72	Horizontal	Pass
	1	0	Lowest	12.21	2.37	10.40	20.24	Vertical	Pass
	1	0	Middle	12.01	2.39	10.42	20.04	Vertical	Pass
	1	0	Highest	12.09	2.40	10.44	20.13	Vertical	Pass
Limit	EIRP<2W=33dBm								

Radiated Power (EIRP) for CAT-M Band 2 / 10M									
Modulation	RB		Channel	Result					Conclusion
				S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization	
	Size	Offset						Of Max. EIRP	
QPSK	1	0	Lowest	9.7	2.37	10.40	17.73	Horizontal	Pass
	1	0	Middle	10.03	2.39	10.42	18.06	Horizontal	Pass
	1	0	Highest	9.84	2.40	10.44	17.88	Horizontal	Pass
	1	0	Lowest	12.35	2.37	10.40	20.38	Vertical	Pass
	1	0	Middle	12.11	2.39	10.42	20.14	Vertical	Pass
	1	0	Highest	12.36	2.40	10.44	20.40	Vertical	Pass
16QAM	1	0	Lowest	9.77	2.37	10.40	17.80	Horizontal	Pass
	1	0	Middle	9.12	2.39	10.42	17.15	Horizontal	Pass
	1	0	Highest	9.64	2.40	10.44	17.68	Horizontal	Pass
	1	0	Lowest	12.23	2.37	10.40	20.26	Vertical	Pass
	1	0	Middle	12.05	2.39	10.42	20.08	Vertical	Pass
	1	0	Highest	11.9	2.40	10.44	19.94	Vertical	Pass
Limit	EIRP<2W=33dBm								



Radiated Power (EIRP) for CAT-M Band 2 / 15M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization	
								Of Max. EIRP	
QPSK	1	0	Lowest	10.01	2.37	10.40	18.04	Horizontal	Pass
	1	0	Middle	10.19	2.39	10.42	18.22	Horizontal	Pass
	1	0	Highest	9.86	2.40	10.44	17.90	Horizontal	Pass
	1	0	Lowest	12.23	2.37	10.40	20.26	Vertical	Pass
	1	0	Middle	12.55	2.39	10.42	20.58	Vertical	Pass
	1	0	Highest	12.23	2.40	10.44	20.27	Vertical	Pass
16QAM	1	0	Lowest	9.31	2.37	10.40	17.34	Horizontal	Pass
	1	0	Middle	10.01	2.39	10.42	18.04	Horizontal	Pass
	1	0	Highest	10.01	2.40	10.44	18.05	Horizontal	Pass
	1	0	Lowest	12.3	2.37	10.40	20.33	Vertical	Pass
	1	0	Middle	12.27	2.39	10.42	20.30	Vertical	Pass
	1	0	Highest	12.25	2.40	10.44	20.29	Vertical	Pass
Limit	EIRP<2W=33dBm								

Radiated Power (EIRP) for CAT-M Band 2 / 20M									
Modulation	RB		Channel	Result					Conclusion
				S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization	
	Size	Offset						Of Max. EIRP	
QPSK	1	0	Lowest	9.73	2.37	10.40	17.76	Horizontal	Pass
	1	0	Middle	10.19	2.39	10.42	18.22	Horizontal	Pass
	1	0	Highest	9.79	2.40	10.44	17.83	Horizontal	Pass
	1	0	Lowest	12.54	2.37	10.40	20.57	Vertical	Pass
	1	0	Middle	12.61	2.39	10.42	20.64	Vertical	Pass
	1	0	Highest	12.44	2.40	10.44	20.48	Vertical	Pass
16QAM	1	0	Lowest	9.64	2.37	10.40	17.67	Horizontal	Pass
	1	0	Middle	9.59	2.39	10.42	17.62	Horizontal	Pass
	1	0	Highest	9.9	2.40	10.44	17.94	Horizontal	Pass
	1	0	Lowest	12.54	2.37	10.40	20.57	Vertical	Pass
	1	0	Middle	12.44	2.39	10.42	20.47	Vertical	Pass
	1	0	Highest	12.28	2.40	10.44	20.32	Vertical	Pass
Limit	EIRP<2W=33dBm								



Radiated Power (EIRP) for CAT-M Band 4 / 1.4M									
Modulation	RB		Channel	Result					Conclusion
				S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P(dBm)	Polarization	
	Size	Offset						Of Max. EIRP	
QPSK	1	0	Lowest	11.22	2.35	10.13	19.00	Horizontal	Pass
	1	0	Middle	11.52	2.36	10.16	19.32	Horizontal	Pass
	1	0	Highest	11.06	2.37	10.22	18.91	Horizontal	Pass
	1	0	Lowest	13.74	2.35	10.13	21.52	Vertical	Pass
	1	0	Middle	13.79	2.36	10.16	21.59	Vertical	Pass
	1	0	Highest	13.71	2.37	10.22	21.56	Vertical	Pass
16QAM	1	0	Lowest	11.45	2.35	10.13	19.23	Horizontal	Pass
	1	0	Middle	11.55	2.36	10.16	19.35	Horizontal	Pass
	1	0	Highest	11.34	2.37	10.22	19.19	Horizontal	Pass
	1	0	Lowest	13.65	2.35	10.13	21.43	Vertical	Pass
	1	0	Middle	13.66	2.36	10.16	21.46	Vertical	Pass
	1	0	Highest	13.45	2.37	10.22	21.30	Vertical	Pass
Limit	EIRP<1W=30dBm								

Radiated Power (EIRP) for CAT-M Band 4 / 3M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P(dBm)	Polarization	
								Of Max. EIRP	
QPSK	1	0	Lowest	11.51	2.35	10.13	19.29	Horizontal	Pass
	1	0	Middle	11.47	2.36	10.16	19.27	Horizontal	Pass
	1	0	Highest	10.91	2.37	10.22	18.76	Horizontal	Pass
	1	0	Lowest	13.87	2.35	10.13	21.65	Vertical	Pass
	1	0	Middle	13.74	2.36	10.16	21.54	Vertical	Pass
	1	0	Highest	13.77	2.37	10.22	21.62	Vertical	Pass
16QAM	1	0	Lowest	11.48	2.35	10.13	19.26	Horizontal	Pass
	1	0	Middle	11.09	2.36	10.16	18.89	Horizontal	Pass
	1	0	Highest	10.5	2.37	10.22	18.35	Horizontal	Pass
	1	0	Lowest	13.51	2.35	10.13	21.29	Vertical	Pass
	1	0	Middle	13.81	2.36	10.16	21.61	Vertical	Pass
	1	0	Highest	13.49	2.37	10.22	21.34	Vertical	Pass
Limit	EIRP<1W=30dBm								



Radiated Power (EIRP) for CAT-M Band 4 / 5M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P(dBm)	Polarization	
								Of Max. EIRP	
QPSK	1	0	Lowest	10.78	2.35	10.13	18.56	Horizontal	Pass
	1	0	Middle	10.87	2.36	10.16	18.67	Horizontal	Pass
	1	0	Highest	11.12	2.37	10.22	18.97	Horizontal	Pass
	1	0	Lowest	13.65	2.35	10.13	21.43	Vertical	Pass
	1	0	Middle	13.52	2.36	10.16	21.32	Vertical	Pass
	1	0	Highest	13.87	2.37	10.22	21.72	Vertical	Pass
16QAM	1	0	Lowest	11.25	2.35	10.13	19.03	Horizontal	Pass
	1	0	Middle	11.12	2.36	10.16	18.92	Horizontal	Pass
	1	0	Highest	10.62	2.37	10.22	18.47	Horizontal	Pass
	1	0	Lowest	13.69	2.35	10.13	21.47	Vertical	Pass
	1	0	Middle	13.57	2.36	10.16	21.37	Vertical	Pass
	1	0	Highest	13.26	2.37	10.22	21.11	Vertical	Pass
Limit	EIRP<1W=30dBm								

Radiated Power (EIRP) for CAT-M Band 4 / 10M									
Modulation	RB		Channel	Result					Conclusion
				S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P(dBm)	Polarization	
	Size	Offset						Of Max. EIRP	
QPSK	1	0	Lowest	11.49	2.35	10.13	19.27	Horizontal	Pass
	1	0	Middle	10.66	2.36	10.16	18.46	Horizontal	Pass
	1	0	Highest	11.6	2.37	10.22	19.45	Horizontal	Pass
	1	0	Lowest	14.05	2.35	10.13	21.83	Vertical	Pass
	1	0	Middle	13.49	2.36	10.16	21.29	Vertical	Pass
	1	0	Highest	13.65	2.37	10.22	21.50	Vertical	Pass
16QAM	1	0	Lowest	11.12	2.35	10.13	18.90	Horizontal	Pass
	1	0	Middle	11.24	2.36	10.16	19.04	Horizontal	Pass
	1	0	Highest	10.62	2.37	10.22	18.47	Horizontal	Pass
	1	0	Lowest	13.62	2.35	10.13	21.40	Vertical	Pass
	1	0	Middle	13.33	2.36	10.16	21.13	Vertical	Pass
	1	0	Highest	13.36	2.37	10.22	21.21	Vertical	Pass
Limit	EIRP<1W=30dBm								



Radiated Power (EIRP) for CAT-M Band 4 / 15M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P(dBm)	Polarization	
								Of Max. EIRP	
QPSK	1	0	Lowest	11.32	2.35	10.13	19.10	Horizontal	Pass
	1	0	Middle	11.87	2.36	10.16	19.67	Horizontal	Pass
	1	0	Highest	10.56	2.37	10.22	18.41	Horizontal	Pass
	1	0	Lowest	13.59	2.35	10.13	21.37	Vertical	Pass
	1	0	Middle	13.88	2.36	10.16	21.68	Vertical	Pass
	1	0	Highest	13.42	2.37	10.22	21.27	Vertical	Pass
16QAM	1	0	Lowest	11.23	2.35	10.13	19.01	Horizontal	Pass
	1	0	Middle	10.73	2.36	10.16	18.53	Horizontal	Pass
	1	0	Highest	10.96	2.37	10.22	18.81	Horizontal	Pass
	1	0	Lowest	13.53	2.35	10.13	21.31	Vertical	Pass
	1	0	Middle	13.41	2.36	10.16	21.21	Vertical	Pass
	1	0	Highest	13.25	2.37	10.22	21.10	Vertical	Pass
Limit	EIRP<1W=30dBm								

Radiated Power (EIRP) for CAT-M Band 4 / 20M									
Modulation	RB		Channel	Result					Conclusion
				S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization	
	Size	Offset						Of Max. EIRP	
QPSK	1	0	Lowest	11.27	2.35	10.13	19.05	Horizontal	Pass
	1	0	Middle	11.54	2.36	10.16	19.34	Horizontal	Pass
	1	0	Highest	11.41	2.37	10.22	19.26	Horizontal	Pass
	1	0	Lowest	13.65	2.35	10.13	21.43	Vertical	Pass
	1	0	Middle	13.62	2.36	10.16	21.42	Vertical	Pass
	1	0	Highest	13.65	2.37	10.22	21.50	Vertical	Pass
16QAM	1	0	Lowest	10.09	2.35	10.13	17.87	Horizontal	Pass
	1	0	Middle	10.5	2.36	10.16	18.30	Horizontal	Pass
	1	0	Highest	11	2.37	10.22	18.85	Horizontal	Pass
	1	0	Lowest	12.94	2.35	10.13	20.72	Vertical	Pass
	1	0	Middle	13.4	2.36	10.16	21.20	Vertical	Pass
	1	0	Highest	13.25	2.37	10.22	21.10	Vertical	Pass
Limit	EIRP<1W=30dBm								



Radiated Power (ERP) for CAT-M Band 5 / 1.4M										
Modulation	RB		Channel	Result						Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization	
									Of Max. ERP	
QPSK	1	0	Lowest	17.15	1.27	6.70	2.15	20.43	Horizontal	Pass
	1	0	Middle	17.91	1.28	6.70	2.15	21.18	Horizontal	Pass
	1	0	Highest	18.01	1.29	6.70	2.15	21.27	Horizontal	Pass
	1	0	Lowest	20.11	1.27	6.70	2.15	23.39	Vertical	Pass
	1	0	Middle	20.49	1.28	6.70	2.15	23.76	Vertical	Pass
	1	0	Highest	20.31	1.29	6.70	2.15	23.57	Vertical	Pass
16QAM	1	0	Lowest	17.29	1.27	6.70	2.15	20.57	Horizontal	Pass
	1	0	Middle	18	1.28	6.70	2.15	21.27	Horizontal	Pass
	1	0	Highest	17.57	1.29	6.70	2.15	20.83	Horizontal	Pass
	1	0	Lowest	20.16	1.27	6.70	2.15	23.44	Vertical	Pass
	1	0	Middle	20.13	1.28	6.70	2.15	23.40	Vertical	Pass
	1	0	Highest	20	1.29	6.70	2.15	23.26	Vertical	Pass
Limit	ERP<7W=38.45dBm									

Radiated Power (ERP) for CAT-M Band 5 / 3M										
Modulation	RB		Channel	Result						Conclusion
				S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization	
	Of Max. ERP									
QPSK	1	0	Lowest	17.29	1.27	6.70	2.15	20.57	Horizontal	Pass
	1	0	Middle	17.6	1.28	6.70	2.15	20.87	Horizontal	Pass
	1	0	Highest	17.88	1.29	6.70	2.15	21.14	Horizontal	Pass
	1	0	Lowest	19.88	1.27	6.70	2.15	23.16	Vertical	Pass
	1	0	Middle	20.01	1.28	6.70	2.15	23.28	Vertical	Pass
	1	0	Highest	20.34	1.29	6.70	2.15	23.60	Vertical	Pass
16QAM	1	0	Lowest	17.29	1.27	6.70	2.15	20.57	Horizontal	Pass
	1	0	Middle	17.55	1.28	6.70	2.15	20.82	Horizontal	Pass
	1	0	Highest	17.66	1.29	6.70	2.15	20.92	Horizontal	Pass
	1	0	Lowest	19.95	1.27	6.70	2.15	23.23	Vertical	Pass
	1	0	Middle	19.86	1.28	6.70	2.15	23.13	Vertical	Pass
	1	0	Highest	19.86	1.29	6.70	2.15	23.12	Vertical	Pass
Limit	ERP<7W=38.45dBm									



Radiated Power (ERP) for CAT-M Band 5 / 5M										
Modulation	RB		Channel	Result						Conclusion
				S	Cable	Gain	correction	PMeas	Polarization	
	Size	Offset		G.Level (dBm)	loss	(dBi)	factor(dB)	E.R.P(dBm)	Of Max. ERP	
QPSK	1	0	Lowest	17.5	1.27	6.70	2.15	20.78	Horizontal	Pass
	1	0	Middle	17.76	1.28	6.70	2.15	21.03	Horizontal	Pass
	1	0	Highest	17.09	1.29	6.70	2.15	20.35	Horizontal	Pass
	1	0	Lowest	20.27	1.27	6.70	2.15	23.55	Vertical	Pass
	1	0	Middle	20.02	1.28	6.70	2.15	23.29	Vertical	Pass
	1	0	Highest	20.07	1.29	6.70	2.15	23.33	Vertical	Pass
16QAM	1	0	Lowest	16.72	1.27	6.70	2.15	20.00	Horizontal	Pass
	1	0	Middle	17.91	1.28	6.70	2.15	21.18	Horizontal	Pass
	1	0	Highest	17.35	1.29	6.70	2.15	20.61	Horizontal	Pass
	1	0	Lowest	19.69	1.27	6.70	2.15	22.97	Vertical	Pass
	1	0	Middle	19.93	1.28	6.70	2.15	23.20	Vertical	Pass
	1	0	Highest	20.02	1.29	6.70	2.15	23.28	Vertical	Pass
Limit	ERP<7W=38.45dBm									

Radiated Power (ERP) for CAT-M Band 5 / 10M										
Modulation	RB		Channel	Result						Conclusion
				S	Cable	Gain	correction	PMeas	Polarization	
	Size	Offset		G.Level (dBm)	loss	(dBi)	factor(dB)	E.R.P(dBm)	Of Max. ERP	
QPSK	1	0	Lowest	17.79	1.27	6.70	2.15	21.07	Horizontal	Pass
	1	0	Middle	18.01	1.28	6.70	2.15	21.28	Horizontal	Pass
	1	0	Highest	17.27	1.29	6.70	2.15	20.53	Horizontal	Pass
	1	0	Lowest	19.99	1.27	6.70	2.15	23.27	Vertical	Pass
	1	0	Middle	20.2	1.28	6.70	2.15	23.47	Vertical	Pass
	1	0	Highest	20.03	1.29	6.70	2.15	23.29	Vertical	Pass
16QAM	1	0	Lowest	17.32	1.27	6.70	2.15	20.60	Horizontal	Pass
	1	0	Middle	17.06	1.28	6.70	2.15	20.33	Horizontal	Pass
	1	0	Highest	17.16	1.29	6.70	2.15	20.42	Horizontal	Pass
	1	0	Lowest	20.06	1.27	6.70	2.15	23.34	Vertical	Pass
	1	0	Middle	19.74	1.28	6.70	2.15	23.01	Vertical	Pass
	1	0	Highest	19.81	1.29	6.70	2.15	23.07	Vertical	Pass
Limit	ERP<7W=38.45dBm									



Radiated Power (ERP) for CAT-M Band 12 / 1.4M										
Modulation	RB		Channel	Result						Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization	
									Of Max. ERP	
QPSK	1	0	Lowest	17.53	1.21	6.40	2.15	20.57	Horizontal	Pass
	1	0	Middle	18.2	1.22	6.40	2.15	21.23	Horizontal	Pass
	1	0	Highest	17.69	1.23	6.40	2.15	20.71	Horizontal	Pass
	1	0	Lowest	20.19	1.21	6.40	2.15	23.23	Vertical	Pass
	1	0	Middle	20.45	1.22	6.40	2.15	23.48	Vertical	Pass
	1	0	Highest	20.09	1.23	6.40	2.15	23.11	Vertical	Pass
16QAM	1	0	Lowest	16.91	1.21	6.40	2.15	19.95	Horizontal	Pass
	1	0	Middle	17.34	1.22	6.40	2.15	20.37	Horizontal	Pass
	1	0	Highest	17.55	1.23	6.40	2.15	20.57	Horizontal	Pass
	1	0	Lowest	19.84	1.21	6.40	2.15	22.88	Vertical	Pass
	1	0	Middle	20.3	1.22	6.40	2.15	23.33	Vertical	Pass
	1	0	Highest	19.81	1.23	6.40	2.15	22.83	Vertical	Pass
Limit	ERP<3W=34.77dBm									

Radiated Power (ERP) for CAT-M Band 12 / 3M										
Modulation	RB		Channel	Result						Conclusion
				S	Cable	Gain	correction	PMeas	Polarization	
	G.Level (dBm)	loss		(dBi)	factor(dB)	E.R.P(dBm)	Of Max. ERP			
QPSK	1	0	Lowest	16.62	1.21	6.40	2.15	19.66	Horizontal	Pass
	1	0	Middle	17.67	1.22	6.40	2.15	20.70	Horizontal	Pass
	1	0	Highest	16.93	1.23	6.40	2.15	19.95	Horizontal	Pass
	1	0	Lowest	19.56	1.21	6.40	2.15	22.60	Vertical	Pass
	1	0	Middle	19.79	1.22	6.40	2.15	22.82	Vertical	Pass
	1	0	Highest	19.74	1.23	6.40	2.15	22.76	Vertical	Pass
16QAM	1	0	Lowest	17.08	1.21	6.40	2.15	20.12	Horizontal	Pass
	1	0	Middle	16.79	1.22	6.40	2.15	19.82	Horizontal	Pass
	1	0	Highest	17.24	1.23	6.40	2.15	20.26	Horizontal	Pass
	1	0	Lowest	19.52	1.21	6.40	2.15	22.56	Vertical	Pass
	1	0	Middle	19.42	1.22	6.40	2.15	22.45	Vertical	Pass
	1	0	Highest	19.62	1.23	6.40	2.15	22.64	Vertical	Pass
Limit	ERP<3W=34.77dBm									



Radiated Power (ERP) for CAT-M Band 12 / 5M										
Modulation	RB		Channel	Result						Conclusion
				S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	
	Size	Offset								
QPSK	1	0	Lowest	17.7	1.21	6.40	2.15	20.74	Horizontal	Pass
	1	0	Middle	17.74	1.22	6.40	2.15	20.77	Horizontal	Pass
	1	0	Highest	17.59	1.23	6.40	2.15	20.61	Horizontal	Pass
	1	0	Lowest	19.88	1.21	6.40	2.15	22.92	Vertical	Pass
	1	0	Middle	19.79	1.22	6.40	2.15	22.82	Vertical	Pass
	1	0	Highest	19.84	1.23	6.40	2.15	22.86	Vertical	Pass
16QAM	1	0	Lowest	17.22	1.21	6.40	2.15	20.26	Horizontal	Pass
	1	0	Middle	17.49	1.22	6.40	2.15	20.52	Horizontal	Pass
	1	0	Highest	17.45	1.23	6.40	2.15	20.47	Horizontal	Pass
	1	0	Lowest	19.38	1.21	6.40	2.15	22.42	Vertical	Pass
	1	0	Middle	19.88	1.22	6.40	2.15	22.91	Vertical	Pass
	1	0	Highest	19.56	1.23	6.40	2.15	22.58	Vertical	Pass
Limit	ERP<3W=34.77dBm									

Radiated Power (ERP) for CAT-M Band 12 / 10M										
Modulation	RB		Channel	Result						Conclusion
				S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	
	Size	Offset								
QPSK	1	0	Lowest	16.93	1.21	6.40	2.15	19.97	Horizontal	Pass
	1	0	Middle	17.47	1.22	6.40	2.15	20.50	Horizontal	Pass
	1	0	Highest	17.29	1.23	6.40	2.15	20.31	Horizontal	Pass
	1	0	Lowest	19.9	1.21	6.40	2.15	22.94	Vertical	Pass
	1	0	Middle	19.89	1.22	6.40	2.15	22.92	Vertical	Pass
	1	0	Highest	19.83	1.23	6.40	2.15	22.85	Vertical	Pass
16QAM	1	0	Lowest	17.53	1.21	6.40	2.15	20.57	Horizontal	Pass
	1	0	Middle	17.22	1.22	6.40	2.15	20.25	Horizontal	Pass
	1	0	Highest	17.05	1.23	6.40	2.15	20.07	Horizontal	Pass
	1	0	Lowest	19.69	1.21	6.40	2.15	22.73	Vertical	Pass
	1	0	Middle	19.9	1.22	6.40	2.15	22.93	Vertical	Pass
	1	0	Highest	19.78	1.23	6.40	2.15	22.80	Vertical	Pass
Limit	ERP<3W=34.77dBm									



Radiated Power (ERP) for CAT-M Band 13 / 5M

Modulation	RB		Channel	Result						Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization	
									Of Max. ERP	
QPSK	1	0	Lowest	17.2	1.21	6.40	2.15	20.24	Horizontal	Pass
	1	0	Middle	17.15	1.22	6.40	2.15	20.18	Horizontal	Pass
	1	0	Highest	17	1.23	6.40	2.15	20.02	Horizontal	Pass
	1	0	Lowest	19.63	1.21	6.40	2.15	22.67	Vertical	Pass
	1	0	Middle	20.04	1.22	6.40	2.15	23.07	Vertical	Pass
	1	0	Highest	19.71	1.23	6.40	2.15	22.73	Vertical	Pass
16QAM	1	0	Lowest	16.59	1.21	6.40	2.15	19.63	Horizontal	Pass
	1	0	Middle	17.02	1.22	6.40	2.15	20.05	Horizontal	Pass
	1	0	Highest	17.73	1.23	6.40	2.15	20.75	Horizontal	Pass
	1	0	Lowest	19.48	1.21	6.40	2.15	22.52	Vertical	Pass
	1	0	Middle	19.65	1.22	6.40	2.15	22.68	Vertical	Pass
	1	0	Highest	19.74	1.23	6.40	2.15	22.76	Vertical	Pass
Limit	ERP<3W=34.77dBm									

Radiated Power (ERP) for CAT-M Band 13 / 10M

Modulation	RB		Channel	Result						Conclusion
				S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization	
	Of Max. ERP									
QPSK	1	0	Middle	16.89	1.22	6.40	2.15	19.92	Horizontal	Pass
	1	0	Middle	19.83	1.22	6.40	2.15	22.86	Vertical	Pass
16QAM	1	0	Middle	17.29	1.22	6.40	2.15	20.32	Horizontal	Pass
	1	0	Middle	19.65	1.22	6.40	2.15	22.68	Vertical	Pass
Limit	ERP<3W=34.77dBm									



Radiated Power (EIRP) for CAT-M Band 25 / 1.4M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I. R.P(dBm)	Polarization Of Max. EIRP	
QPSK	1	0	Lowest	10.11	2.37	10.40	18.14	Horizontal	Pass
	1	0	Middle	10.88	2.39	10.42	18.91	Horizontal	Pass
	1	0	Highest	10.11	2.40	10.44	18.15	Horizontal	Pass
	1	0	Lowest	13.1	2.37	10.40	21.13	Vertical	Pass
	1	0	Middle	12.96	2.39	10.42	20.99	Vertical	Pass
	1	0	Highest	12.83	2.40	10.44	20.87	Vertical	Pass
16QAM	1	0	Lowest	10.02	2.37	10.40	18.05	Horizontal	Pass
	1	0	Middle	10.02	2.39	10.42	18.05	Horizontal	Pass
	1	0	Highest	9.64	2.40	10.44	17.68	Horizontal	Pass
	1	0	Lowest	12.65	2.37	10.40	20.68	Vertical	Pass
	1	0	Middle	12.84	2.39	10.42	20.87	Vertical	Pass
	1	0	Highest	12.44	2.40	10.44	20.48	Vertical	Pass
Limit	EIRP<2W=33dBm								

Radiated Power (EIRP) for CAT-M Band 25 / 3M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I. R.P(dBm)	Polarization Of Max. EIRP	
QPSK	1	0	Lowest	9.97	2.37	10.40	18.00	Horizontal	Pass
	1	0	Middle	10.39	2.39	10.42	18.42	Horizontal	Pass
	1	0	Highest	9.87	2.40	10.44	17.91	Horizontal	Pass
	1	0	Lowest	12.59	2.37	10.40	20.62	Vertical	Pass
	1	0	Middle	12.72	2.39	10.42	20.75	Vertical	Pass
	1	0	Highest	12.77	2.40	10.44	20.81	Vertical	Pass
16QAM	1	0	Lowest	10.6	2.37	10.40	18.63	Horizontal	Pass
	1	0	Middle	9.85	2.39	10.42	17.88	Horizontal	Pass
	1	0	Highest	10.44	2.40	10.44	18.48	Horizontal	Pass
	1	0	Lowest	12.75	2.37	10.40	20.78	Vertical	Pass
	1	0	Middle	12.7	2.39	10.42	20.73	Vertical	Pass
	1	0	Highest	12.72	2.40	10.44	20.76	Vertical	Pass
Limit	EIRP<2W=33dBm								



Radiated Power (EIRP) for CAT-M Band 25 / 5M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I. R.P(dBm)	Polarization Of Max. EIRP	
QPSK	1	0	Lowest	10.52	2.37	10.40	18.55	Horizontal	Pass
	1	0	Middle	10.49	2.39	10.42	18.52	Horizontal	Pass
	1	0	Highest	9.63	2.40	10.44	17.67	Horizontal	Pass
	1	0	Lowest	12.93	2.37	10.40	20.96	Vertical	Pass
	1	0	Middle	12.65	2.39	10.42	20.68	Vertical	Pass
	1	0	Highest	12.59	2.40	10.44	20.63	Vertical	Pass
16QAM	1	0	Lowest	10	2.37	10.40	18.03	Horizontal	Pass
	1	0	Middle	10.09	2.39	10.42	18.12	Horizontal	Pass
	1	0	Highest	9.83	2.40	10.44	17.87	Horizontal	Pass
	1	0	Lowest	12.55	2.37	10.40	20.58	Vertical	Pass
	1	0	Middle	12.59	2.39	10.42	20.62	Vertical	Pass
	1	0	Highest	12.47	2.40	10.44	20.51	Vertical	Pass
Limit	EIRP<2W=33dBm								

Radiated Power (EIRP) for CAT-M Band 25 / 10M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I. R.P(dBm)	Polarization Of Max. EIRP	
QPSK	1	0	Lowest	9.86	2.37	10.40	17.89	Horizontal	Pass
	1	0	Middle	10.33	2.39	10.42	18.36	Horizontal	Pass
	1	0	Highest	9.61	2.40	10.44	17.65	Horizontal	Pass
	1	0	Lowest	12.62	2.37	10.40	20.65	Vertical	Pass
	1	0	Middle	12.96	2.39	10.42	20.99	Vertical	Pass
	1	0	Highest	12.57	2.40	10.44	20.61	Vertical	Pass
16QAM	1	0	Lowest	9.87	2.37	10.40	17.90	Horizontal	Pass
	1	0	Middle	10.64	2.39	10.42	18.67	Horizontal	Pass
	1	0	Highest	10.04	2.40	10.44	18.08	Horizontal	Pass
	1	0	Lowest	12.46	2.37	10.40	20.49	Vertical	Pass
	1	0	Middle	12.78	2.39	10.42	20.81	Vertical	Pass
	1	0	Highest	12.58	2.40	10.44	20.62	Vertical	Pass
Limit	EIRP<2W=33dBm								



Radiated Power (EIRP) for CAT-M Band 25 / 15M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I. R.P(dBm)	Polarization Of Max. EIRP	
QPSK	1	0	Lowest	9.92	2.37	10.40	17.95	Horizontal	Pass
	1	0	Middle	9.62	2.39	10.42	17.65	Horizontal	Pass
	1	0	Highest	10.42	2.40	10.44	18.46	Horizontal	Pass
	1	0	Lowest	12.53	2.37	10.40	20.56	Vertical	Pass
	1	0	Middle	12.6	2.39	10.42	20.63	Vertical	Pass
	1	0	Highest	12.75	2.40	10.44	20.79	Vertical	Pass
16QAM	1	0	Lowest	9.55	2.37	10.40	17.58	Horizontal	Pass
	1	0	Middle	9.94	2.39	10.42	17.97	Horizontal	Pass
	1	0	Highest	10.16	2.40	10.44	18.20	Horizontal	Pass
	1	0	Lowest	12.49	2.37	10.40	20.52	Vertical	Pass
	1	0	Middle	12.48	2.39	10.42	20.51	Vertical	Pass
	1	0	Highest	12.48	2.40	10.44	20.52	Vertical	Pass
Limit	EIRP<2W=33dBm								

Radiated Power (EIRP) for CAT-M Band 25 / 20M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I. R.P(dBm)	Polarization Of Max. EIRP	
QPSK	1	0	Lowest	10.61	2.37	10.40	18.64	Horizontal	Pass
	1	0	Middle	9.49	2.39	10.42	17.52	Horizontal	Pass
	1	0	Highest	9.94	2.40	10.44	17.98	Horizontal	Pass
	1	0	Lowest	12.72	2.37	10.40	20.75	Vertical	Pass
	1	0	Middle	12.47	2.39	10.42	20.50	Vertical	Pass
	1	0	Highest	12.4	2.40	10.44	20.44	Vertical	Pass
16QAM	1	0	Lowest	9.97	2.37	10.40	18.00	Horizontal	Pass
	1	0	Middle	9.73	2.39	10.42	17.76	Horizontal	Pass
	1	0	Highest	10	2.40	10.44	18.04	Horizontal	Pass
	1	0	Lowest	12.61	2.37	10.40	20.64	Vertical	Pass
	1	0	Middle	12.43	2.39	10.42	20.46	Vertical	Pass
	1	0	Highest	12.41	2.40	10.44	20.45	Vertical	Pass
Limit	EIRP<2W=33dBm								



Radiated Power (ERP) for CAT-M Band 26(Part22) / 1.4M

Modulation	RB		Channel	Result						Conclusion
				S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization	
	Size	Offset							Of Max. ERP	
QPSK	1	0	Lowest	16.75	1.27	6.70	2.15	20.03	Horizontal	Pass
	1	0	Middle	16.73	1.28	6.70	2.15	20.00	Horizontal	Pass
	1	0	Highest	17.1	1.29	6.70	2.15	20.36	Horizontal	Pass
	1	0	Lowest	19.44	1.27	6.70	2.15	22.72	Vertical	Pass
	1	0	Middle	19.41	1.28	6.70	2.15	22.68	Vertical	Pass
	1	0	Highest	19.23	1.29	6.70	2.15	22.49	Vertical	Pass
16QAM	1	0	Lowest	16.89	1.27	6.70	2.15	20.17	Horizontal	Pass
	1	0	Middle	16.98	1.28	6.70	2.15	20.25	Horizontal	Pass
	1	0	Highest	16.96	1.29	6.70	2.15	20.22	Horizontal	Pass
	1	0	Lowest	19.36	1.27	6.70	2.15	22.64	Vertical	Pass
	1	0	Middle	19.08	1.28	6.70	2.15	22.35	Vertical	Pass
	1	0	Highest	19.15	1.29	6.70	2.15	22.41	Vertical	Pass
Limit	ERP<7W=38.45dBm									

Radiated Power (ERP) for CAT-M Band 26(Part22) / 3M

Modulation	RB		Channel	Result						Conclusion
				S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization	
	Size	Offset							Of Max. ERP	
QPSK	1	0	Lowest	16.94	1.27	6.70	2.15	20.22	Horizontal	Pass
	1	0	Middle	17.27	1.28	6.70	2.15	20.54	Horizontal	Pass
	1	0	Highest	16.21	1.29	6.70	2.15	19.47	Horizontal	Pass
	1	0	Lowest	19.65	1.27	6.70	2.15	22.93	Vertical	Pass
	1	0	Middle	19.35	1.28	6.70	2.15	22.62	Vertical	Pass
	1	0	Highest	18.97	1.29	6.70	2.15	22.23	Vertical	Pass
16QAM	1	0	Lowest	16.76	1.27	6.70	2.15	20.04	Horizontal	Pass
	1	0	Middle	16.38	1.28	6.70	2.15	19.65	Horizontal	Pass
	1	0	Highest	15.91	1.29	6.70	2.15	19.17	Horizontal	Pass
	1	0	Lowest	19.23	1.27	6.70	2.15	22.51	Vertical	Pass
	1	0	Middle	19.08	1.28	6.70	2.15	22.35	Vertical	Pass
	1	0	Highest	18.67	1.29	6.70	2.15	21.93	Vertical	Pass
Limit	ERP<7W=38.45dBm									



Radiated Power (ERP) for CAT-M Band 26(Part22) / 5M

Modulation	RB		Channel	Result						Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization	
									Of Max. ERP	
QPSK	1	0	Lowest	17.1	1.27	6.70	2.15	20.38	Horizontal	Pass
	1	0	Middle	17.05	1.28	6.70	2.15	20.32	Horizontal	Pass
	1	0	Highest	16.45	1.29	6.70	2.15	19.71	Horizontal	Pass
	1	0	Lowest	19.52	1.27	6.70	2.15	22.80	Vertical	Pass
	1	0	Middle	19.44	1.28	6.70	2.15	22.71	Vertical	Pass
	1	0	Highest	19.09	1.29	6.70	2.15	22.35	Vertical	Pass
16QAM	1	0	Lowest	16.58	1.27	6.70	2.15	19.86	Horizontal	Pass
	1	0	Middle	16.99	1.28	6.70	2.15	20.26	Horizontal	Pass
	1	0	Highest	16.42	1.29	6.70	2.15	19.68	Horizontal	Pass
	1	0	Lowest	19.19	1.27	6.70	2.15	22.47	Vertical	Pass
	1	0	Middle	19.07	1.28	6.70	2.15	22.34	Vertical	Pass
	1	0	Highest	19.17	1.29	6.70	2.15	22.43	Vertical	Pass
Limit	ERP<7W=38.45dBm									

Radiated Power (ERP) for CAT-M Band 26(Part22) / 10M

Modulation	RB		Channel	Result						Conclusion
				S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	
	Size	Offset								
QPSK	1	0	Lowest	16.45	1.27	6.70	2.15	19.73	Horizontal	Pass
	1	0	Middle	17.03	1.28	6.70	2.15	20.30	Horizontal	Pass
	1	0	Highest	16.41	1.29	6.70	2.15	19.67	Horizontal	Pass
	1	0	Lowest	18.77	1.27	6.70	2.15	22.05	Vertical	Pass
	1	0	Middle	19.14	1.28	6.70	2.15	22.41	Vertical	Pass
	1	0	Highest	19.07	1.29	6.70	2.15	22.33	Vertical	Pass
16QAM	1	0	Lowest	16.11	1.27	6.70	2.15	19.39	Horizontal	Pass
	1	0	Middle	16.67	1.28	6.70	2.15	19.94	Horizontal	Pass
	1	0	Highest	16.62	1.29	6.70	2.15	19.88	Horizontal	Pass
	1	0	Lowest	18.81	1.27	6.70	2.15	22.09	Vertical	Pass
	1	0	Middle	19.09	1.28	6.70	2.15	22.36	Vertical	Pass
	1	0	Highest	18.85	1.29	6.70	2.15	22.11	Vertical	Pass
Limit	ERP<7W=38.45dBm									



Radiated Power (ERP) for CAT-M Band 26(Part22) / 15M										
Modulation	RB		Channel	Result						Conclusion
				S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization	
	Of Max. ERP									
QPSK	1	0	Lowest	17.17	1.27	6.70	2.15	20.45	Horizontal	Pass
	1	0	Middle	16.56	1.28	6.70	2.15	19.83	Horizontal	Pass
	1	0	Highest	16.7	1.29	6.70	2.15	19.96	Horizontal	Pass
	1	0	Lowest	19.29	1.27	6.70	2.15	22.57	Vertical	Pass
	1	0	Middle	19.44	1.28	6.70	2.15	22.71	Vertical	Pass
	1	0	Highest	19.29	1.29	6.70	2.15	22.55	Vertical	Pass
16QAM	1	0	Lowest	16.63	1.27	6.70	2.15	19.91	Horizontal	Pass
	1	0	Middle	16.26	1.28	6.70	2.15	19.53	Horizontal	Pass
	1	0	Highest	16.03	1.29	6.70	2.15	19.29	Horizontal	Pass
	1	0	Lowest	19.04	1.27	6.70	2.15	22.32	Vertical	Pass
	1	0	Middle	19.15	1.28	6.70	2.15	22.42	Vertical	Pass
	1	0	Highest	18.94	1.29	6.70	2.15	22.20	Vertical	Pass
Limit	ERP<7W=38.45dBm									



Radiated Power (ERP) for CAT-M Band 26(Part90) / 1.4M										
Modulation	RB		Channel	Result						Conclusion
				S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization	
	Size	Offset							Of Max. ERP	
QPSK	1	0	Lowest	16.91	1.27	6.70	2.15	20.19	Horizontal	Pass
	1	0	Middle	16.94	1.27	6.70	2.15	20.22	Horizontal	Pass
	1	0	Highest	17.18	1.27	6.70	2.15	20.46	Horizontal	Pass
	1	0	Lowest	18.34	1.27	6.70	2.15	21.62	Vertical	Pass
	1	0	Middle	18.35	1.27	6.70	2.15	21.63	Vertical	Pass
	1	0	Highest	18.56	1.27	6.70	2.15	21.84	Vertical	Pass
16QAM	1	0	Lowest	16.65	1.27	6.70	2.15	19.93	Horizontal	Pass
	1	0	Middle	16.58	1.27	6.70	2.15	19.86	Horizontal	Pass
	1	0	Highest	16.95	1.27	6.70	2.15	20.23	Horizontal	Pass
	1	0	Lowest	18.05	1.27	6.70	2.15	21.33	Vertical	Pass
	1	0	Middle	18.05	1.27	6.70	2.15	21.33	Vertical	Pass
	1	0	Highest	18.29	1.27	6.70	2.15	21.57	Vertical	Pass
Limit	ERP<100W=50dBm									

Radiated Power (ERP) for CAT-M Band 26(Part90) / 3M										
Modulation	RB		Channel	Result						Conclusion
				S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization	
	Size	Offset							Of Max. ERP	
QPSK	1	0	Lowest	17.53	1.27	6.70	2.15	20.81	Horizontal	Pass
	1	0	Middle	17.57	1.27	6.70	2.15	20.85	Horizontal	Pass
	1	0	Highest	17.42	1.27	6.70	2.15	20.70	Horizontal	Pass
	1	0	Lowest	18.9	1.27	6.70	2.15	22.18	Vertical	Pass
	1	0	Middle	18.89	1.27	6.70	2.15	22.17	Vertical	Pass
	1	0	Highest	18.72	1.27	6.70	2.15	22.00	Vertical	Pass
16QAM	1	0	Lowest	17.38	1.27	6.70	2.15	20.66	Horizontal	Pass
	1	0	Middle	17.1	1.27	6.70	2.15	20.38	Horizontal	Pass
	1	0	Highest	17	1.27	6.70	2.15	20.28	Horizontal	Pass
	1	0	Lowest	18.7	1.27	6.70	2.15	21.98	Vertical	Pass
	1	0	Middle	18.5	1.27	6.70	2.15	21.78	Vertical	Pass
	1	0	Highest	18.43	1.27	6.70	2.15	21.71	Vertical	Pass
Limit	ERP<100W=50dBm									



Radiated Power (ERP) for CAT-M Band 26(Part90) / 5M										
Modulation	RB		Channel	Result						Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	
QPSK	1	0	Lowest	17.35	1.27	6.70	2.15	20.63	Horizontal	Pass
	1	0	Middle	17.19	1.27	6.70	2.15	20.47	Horizontal	Pass
	1	0	Highest	17.41	1.27	6.70	2.15	20.69	Horizontal	Pass
	1	0	Lowest	18.66	1.27	6.70	2.15	21.94	Vertical	Pass
	1	0	Middle	18.61	1.27	6.70	2.15	21.89	Vertical	Pass
	1	0	Highest	18.74	1.27	6.70	2.15	22.02	Vertical	Pass
16QAM	1	0	Lowest	17.09	1.27	6.70	2.15	20.37	Horizontal	Pass
	1	0	Middle	16.96	1.27	6.70	2.15	20.24	Horizontal	Pass
	1	0	Highest	17.22	1.27	6.70	2.15	20.50	Horizontal	Pass
	1	0	Lowest	18.57	1.27	6.70	2.15	21.85	Vertical	Pass
	1	0	Middle	18.36	1.27	6.70	2.15	21.64	Vertical	Pass
	1	0	Highest	18.67	1.27	6.70	2.15	21.95	Vertical	Pass
Limit	ERP<100W=50dBm									

Radiated Power (ERP) for CAT-M Band 26(Part90) / 10M										
Modulation	RB		Channel	Result						Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	
	1	0	Middle	17.17	1.27	6.70	2.15	20.45	Horizontal	Pass
	1	0	Middle	18.45	1.27	6.70	2.15	21.73	Vertical	Pass
	1	0	Middle	16.84	1.27	6.70	2.15	20.12	Horizontal	Pass
	1	0	Middle	18.15	1.27	6.70	2.15	21.43	Vertical	Pass
Limit	ERP<100W=50dBm									



Radiated Power (EIRP) for CAT-M Band 66 / 1.4M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization	
								Of Max. EIRP	
QPSK	1	0	Lowest	11.72	2.35	10.13	19.50	Horizontal	Pass
	1	0	Middle	10.9	2.36	10.16	18.70	Horizontal	Pass
	1	0	Highest	10.75	2.37	10.22	18.60	Horizontal	Pass
	1	0	Lowest	13.75	2.35	10.13	21.53	Vertical	Pass
	1	0	Middle	13.44	2.36	10.16	21.24	Vertical	Pass
	1	0	Highest	13.43	2.37	10.22	21.28	Vertical	Pass
16QAM	1	0	Lowest	11.15	2.35	10.13	18.93	Horizontal	Pass
	1	0	Middle	10.8	2.36	10.16	18.60	Horizontal	Pass
	1	0	Highest	10.96	2.37	10.22	18.81	Horizontal	Pass
	1	0	Lowest	13.3	2.35	10.13	21.08	Vertical	Pass
	1	0	Middle	13.13	2.36	10.16	20.93	Vertical	Pass
	1	0	Highest	13.36	2.37	10.22	21.21	Vertical	Pass
Limit	EIRP<1W=30dBm								

Radiated Power (EIRP) for CAT-M Band 66 / 3M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization Of Max. EIRP	
QPSK	1	0	Lowest	11.35	2.35	10.13	19.13	Horizontal	Pass
	1	0	Middle	11.37	2.36	10.16	19.17	Horizontal	Pass
	1	0	Highest	10.26	2.37	10.22	18.11	Horizontal	Pass
	1	0	Lowest	13.44	2.35	10.13	21.22	Vertical	Pass
	1	0	Middle	13.68	2.36	10.16	21.48	Vertical	Pass
	1	0	Highest	13.26	2.37	10.22	21.11	Vertical	Pass
16QAM	1	0	Lowest	10.52	2.35	10.13	18.30	Horizontal	Pass
	1	0	Middle	10.64	2.36	10.16	18.44	Horizontal	Pass
	1	0	Highest	10.52	2.37	10.22	18.37	Horizontal	Pass
	1	0	Lowest	13.42	2.35	10.13	21.20	Vertical	Pass
	1	0	Middle	13.01	2.36	10.16	20.81	Vertical	Pass
	1	0	Highest	13.24	2.37	10.22	21.09	Vertical	Pass
Limit	EIRP<1W=30dBm								



Radiated Power (EIRP) for CAT-M Band 66 / 5M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization Of Max. EIRP	
QPSK	1	0	Lowest	10.64	2.35	10.13	18.42	Horizontal	Pass
	1	0	Middle	10.84	2.36	10.16	18.64	Horizontal	Pass
	1	0	Highest	10.81	2.37	10.22	18.66	Horizontal	Pass
	1	0	Lowest	13.39	2.35	10.13	21.17	Vertical	Pass
	1	0	Middle	13.19	2.36	10.16	20.99	Vertical	Pass
	1	0	Highest	13.43	2.37	10.22	21.28	Vertical	Pass
16QAM	1	0	Lowest	10.77	2.35	10.13	18.55	Horizontal	Pass
	1	0	Middle	10.61	2.36	10.16	18.41	Horizontal	Pass
	1	0	Highest	10.24	2.37	10.22	18.09	Horizontal	Pass
	1	0	Lowest	13.25	2.35	10.13	21.03	Vertical	Pass
	1	0	Middle	13.1	2.36	10.16	20.90	Vertical	Pass
	1	0	Highest	13.06	2.37	10.22	20.91	Vertical	Pass
Limit	EIRP<1W=30dBm								

Radiated Power (EIRP) for CAT-M Band 66 / 10M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization Of Max. EIRP	
QPSK	1	0	Lowest	11.03	2.35	10.13	18.81	Horizontal	Pass
	1	0	Middle	10.88	2.36	10.16	18.68	Horizontal	Pass
	1	0	Highest	10.49	2.37	10.22	18.34	Horizontal	Pass
	1	0	Lowest	13.62	2.35	10.13	21.40	Vertical	Pass
	1	0	Middle	13.15	2.36	10.16	20.95	Vertical	Pass
	1	0	Highest	13.24	2.37	10.22	21.09	Vertical	Pass
16QAM	1	0	Lowest	10.92	2.35	10.13	18.70	Horizontal	Pass
	1	0	Middle	10.63	2.36	10.16	18.43	Horizontal	Pass
	1	0	Highest	10.76	2.37	10.22	18.61	Horizontal	Pass
	1	0	Lowest	13.29	2.35	10.13	21.07	Vertical	Pass
	1	0	Middle	13.29	2.36	10.16	21.09	Vertical	Pass
	1	0	Highest	13.06	2.37	10.22	20.91	Vertical	Pass
Limit	EIRP<1W=30dBm								



Radiated Power (EIRP) for CAT-M Band 66 / 15M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P(dBm)	Polarization	
								Of Max. EIRP	
QPSK	1	0	Lowest	10.43	2.35	10.13	18.21	Horizontal	Pass
	1	0	Middle	11	2.36	10.16	18.80	Horizontal	Pass
	1	0	Highest	11.13	2.37	10.22	18.98	Horizontal	Pass
	1	0	Lowest	13.4	2.35	10.13	21.18	Vertical	Pass
	1	0	Middle	13.41	2.36	10.16	21.21	Vertical	Pass
	1	0	Highest	13.71	2.37	10.22	21.56	Vertical	Pass
16QAM	1	0	Lowest	10.67	2.35	10.13	18.45	Horizontal	Pass
	1	0	Middle	10.46	2.36	10.16	18.26	Horizontal	Pass
	1	0	Highest	11.09	2.37	10.22	18.94	Horizontal	Pass
	1	0	Lowest	13.24	2.35	10.13	21.02	Vertical	Pass
	1	0	Middle	13	2.36	10.16	20.80	Vertical	Pass
	1	0	Highest	13.15	2.37	10.22	21.00	Vertical	Pass
Limit	EIRP<1W=30dBm								

Radiated Power (EIRP) for CAT-M Band 66 / 20M									
Modulation	RB		Channel	Result					Conclusion
				S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P(dBm)	Polarization	
	Size	Offset						Of Max. EIRP	
QPSK	1	0	Lowest	11.23	2.35	10.13	19.01	Horizontal	Pass
	1	0	Middle	10.63	2.36	10.16	18.43	Horizontal	Pass
	1	0	Highest	11.1	2.37	10.22	18.95	Horizontal	Pass
	1	0	Lowest	13.73	2.35	10.13	21.51	Vertical	Pass
	1	0	Middle	13.22	2.36	10.16	21.02	Vertical	Pass
	1	0	Highest	13.23	2.37	10.22	21.08	Vertical	Pass
16QAM	1	0	Lowest	10.94	2.35	10.13	18.72	Horizontal	Pass
	1	0	Middle	10.73	2.36	10.16	18.53	Horizontal	Pass
	1	0	Highest	10.45	2.37	10.22	18.30	Horizontal	Pass
	1	0	Lowest	13.33	2.35	10.13	21.11	Vertical	Pass
	1	0	Middle	13.15	2.36	10.16	20.95	Vertical	Pass
	1	0	Highest	12.97	2.37	10.22	20.82	Vertical	Pass
Limit	EIRP<1W=30dBm								



Radiated Power (ERP) for CAT-M Band 85 / 5M										
Modulation	RB		Channel	Result						Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	
QPSK	1	0	Lowest	16.61	1.21	6.40	2.15	19.65	Horizontal	Pass
	1	0	Middle	16.45	1.22	6.40	2.15	19.48	Horizontal	Pass
	1	0	Highest	16.39	1.23	6.40	2.15	19.41	Horizontal	Pass
	1	0	Lowest	18.96	1.21	6.40	2.15	22.00	Vertical	Pass
	1	0	Middle	18.91	1.22	6.40	2.15	21.94	Vertical	Pass
	1	0	Highest	18.88	1.23	6.40	2.15	21.90	Vertical	Pass
16QAM	1	0	Lowest	16.12	1.21	6.40	2.15	19.16	Horizontal	Pass
	1	0	Middle	16.29	1.22	6.40	2.15	19.32	Horizontal	Pass
	1	0	Highest	16.17	1.23	6.40	2.15	19.19	Horizontal	Pass
	1	0	Lowest	18.56	1.21	6.40	2.15	21.60	Vertical	Pass
	1	0	Middle	18.85	1.22	6.40	2.15	21.88	Vertical	Pass
	1	0	Highest	18.74	1.23	6.40	2.15	21.76	Vertical	Pass
Limit	ERP<3W=34.77dBm									

Radiated Power (ERP) for CAT-M Band 85 / 10M										
Modulation	RB		Channel	Result						Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	correction factor(dB)	PMeas E.R.P(dBm)	Polarization Of Max. ERP	
QPSK	1	0	Lowest	15.83	1.21	6.40	2.15	18.87	Horizontal	Pass
	1	0	Middle	16.66	1.22	6.40	2.15	19.69	Horizontal	Pass
	1	0	Highest	16.17	1.23	6.40	2.15	19.19	Horizontal	Pass
	1	0	Lowest	18.61	1.21	6.40	2.15	21.65	Vertical	Pass
	1	0	Middle	18.73	1.22	6.40	2.15	21.76	Vertical	Pass
	1	0	Highest	18.67	1.23	6.40	2.15	21.69	Vertical	Pass
16QAM	1	0	Lowest	15.75	1.21	6.40	2.15	18.79	Horizontal	Pass
	1	0	Middle	16.6	1.22	6.40	2.15	19.63	Horizontal	Pass
	1	0	Highest	15.8	1.23	6.40	2.15	18.82	Horizontal	Pass
	1	0	Lowest	18.39	1.21	6.40	2.15	21.43	Vertical	Pass
	1	0	Middle	18.74	1.22	6.40	2.15	21.77	Vertical	Pass
	1	0	Highest	18.49	1.23	6.40	2.15	21.51	Vertical	Pass
Limit	ERP<3W=34.77dBm									

4. RADIATED SPURIOUS EMISSION

4.1 DESCRIPTION OF RADIATED SPURIOUS EMISSION

4.1.1 MEASUREMENT METHOD

The radiated spurious emission was measured by substitution method according to ANSI C63.26 2015. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB. For Band 7 The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.1.2 TEST SETUP

The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, $RSE = Rx \text{ (dBuV)} + CL \text{ (dB)} + SA \text{ (dB)} + Gain \text{ (dBi)} - 107 \text{ (dBuV to dBm)}$ The SA is calibrated using following setup.

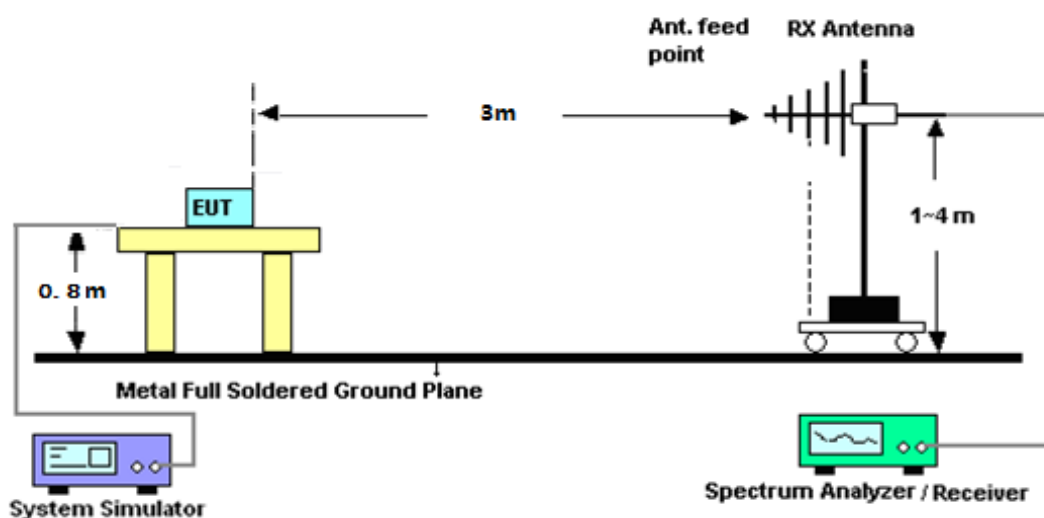
b) EUT was placed on 1.5 m non-conductive stand at a 3 m test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 m from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic measured with peak detector and 1MHz bandwidth.

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

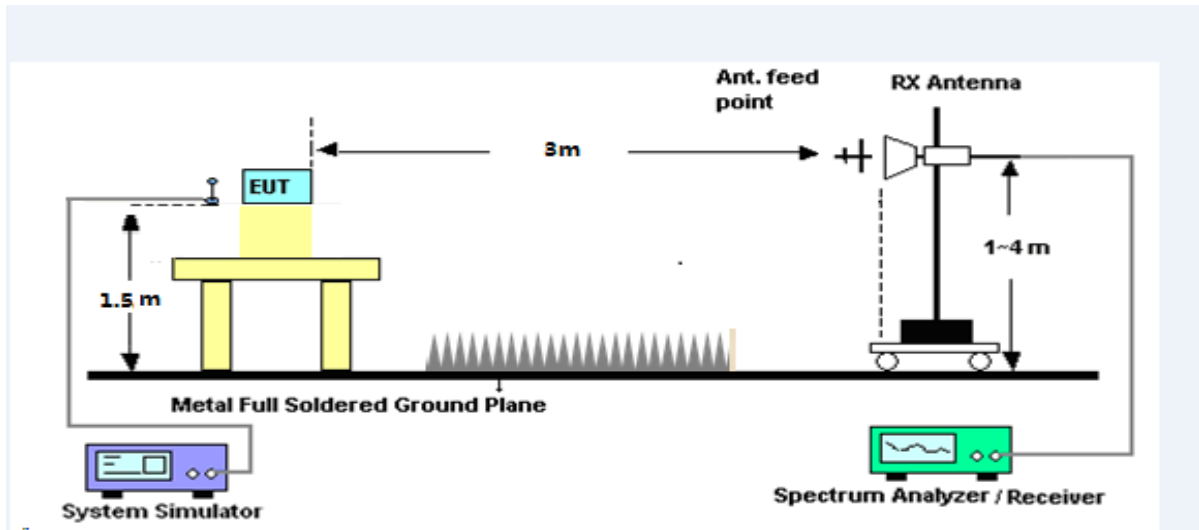
The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below:

Power = P_{Mea} + AR_{pl}

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz



4.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 Section 5.8 and ANSI C63.26 2015 Section 5.5.
2. The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

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

For Band 7:

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= [30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
 $= -25$ dBm

EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain

ERP (dBm) = EIRP - 2.15



4.1.4 TEST RESULTS

CAT-M Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3701.23	-33.55	12.60	12.93	-33.88	-13.00	-20.88	H
5551.86	-34.68	13.10	17.11	-38.69	-13.00	-25.69	H
7402.47	-33.35	11.50	22.20	-44.05	-13.00	-31.05	H
3701.23	-35.37	12.60	12.93	-35.70	-13.00	-22.70	V
5551.86	-35.13	13.10	17.11	-39.14	-13.00	-26.14	V
7402.47	-33.07	11.50	22.20	-43.77	-13.00	-30.77	V
CAT-M Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.94	-33.94	12.60	12.93	-34.27	-13.00	-21.27	H
5640.17	-35.43	13.10	17.11	-39.44	-13.00	-26.44	H
7520.09	-33.38	11.50	22.20	-44.08	-13.00	-31.08	H
3759.94	-35.25	12.60	12.93	-35.58	-13.00	-22.58	V
5640.17	-34.92	13.10	17.11	-38.93	-13.00	-25.93	V
7520.09	-32.51	11.50	22.20	-43.21	-13.00	-30.21	V
CAT-M Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3818.50	-34.83	12.60	12.93	-35.16	-13.00	-22.16	H
5727.71	-34.52	13.10	17.11	-38.53	-13.00	-25.53	H
7637.17	-32.42	11.50	22.20	-43.12	-13.00	-30.12	H
3818.50	-34.54	12.60	12.93	-34.87	-13.00	-21.87	V
5727.71	-35.01	13.10	17.11	-39.02	-13.00	-26.02	V
7637.17	-32.37	11.50	22.20	-43.07	-13.00	-30.07	V



CAT-M Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3705.39	-34.83	12.60	12.93	-35.16	-13.00	-22.16	H
5558.08	-35.12	13.10	17.11	-39.13	-13.00	-26.13	H
7410.61	-33.31	11.50	22.20	-44.01	-13.00	-31.01	H
3705.39	-35.66	12.60	12.93	-35.99	-13.00	-22.99	V
5558.08	-34.61	13.10	17.11	-38.62	-13.00	-25.62	V
7410.61	-33.03	11.50	22.20	-43.73	-13.00	-30.73	V
CAT-M Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.92	-34.81	12.60	12.93	-35.14	-13.00	-22.14	H
5640.05	-35.09	13.10	17.11	-39.10	-13.00	-26.10	H
7520.02	-32.33	11.50	22.20	-43.03	-13.00	-30.03	H
3759.92	-36.00	12.60	12.93	-36.33	-13.00	-23.33	V
5640.05	-34.49	13.10	17.11	-38.50	-13.00	-25.50	V
7520.02	-32.85	11.50	22.20	-43.55	-13.00	-30.55	V
CAT-M Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3813.97	-34.47	12.60	12.93	-34.80	-13.00	-21.80	H
5721.45	-34.58	13.10	17.11	-38.59	-13.00	-25.59	H
7628.55	-32.86	11.50	22.20	-43.56	-13.00	-30.56	H
3813.97	-34.97	12.60	12.93	-35.30	-13.00	-22.30	V
5721.45	-34.99	13.10	17.11	-39.00	-13.00	-26.00	V
7628.55	-32.13	11.50	22.20	-42.83	-13.00	-29.83	V



CAT-M Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3716.14	-34.71	12.60	12.93	-35.04	-13.00	-22.04	H
5574.16	-35.07	13.10	17.11	-39.08	-13.00	-26.08	H
7618.68	-33.52	11.50	22.20	-44.22	-13.00	-31.22	H
3716.14	-35.62	12.60	12.93	-35.95	-13.00	-22.95	V
5574.16	-35.11	13.10	17.11	-39.12	-13.00	-26.12	V
7618.68	-32.84	11.50	22.20	-43.54	-13.00	-30.54	V
CAT-M Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.11	-34.39	12.60	12.93	-34.72	-13.00	-21.72	H
5640.14	-34.56	13.10	17.11	-38.57	-13.00	-25.57	H
7519.97	-32.24	11.50	22.20	-42.94	-13.00	-29.94	H
3760.11	-35.30	12.60	12.93	-35.63	-13.00	-22.63	V
5640.14	-34.24	13.10	17.11	-38.25	-13.00	-25.25	V
7519.97	-32.85	11.50	22.20	-43.55	-13.00	-30.55	V
CAT-M Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3803.57	-34.53	12.60	12.93	-34.86	-13.00	-21.86	H
5705.32	-34.35	13.10	17.11	-38.36	-13.00	-25.36	H
7607.29	-32.55	11.50	22.20	-43.25	-13.00	-30.25	H
3803.57	-34.64	12.60	12.93	-34.97	-13.00	-21.97	V
5705.32	-33.82	13.10	17.11	-37.83	-13.00	-24.83	V
7607.29	-32.49	11.50	22.20	-43.19	-13.00	-30.19	V



CAT-M Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3703.19	-33.51	12.60	12.93	-33.84	-13.00	-20.84	H
5554.21	-34.65	13.10	17.11	-38.66	-13.00	-25.66	H
7406.46	-32.17	11.50	22.20	-42.87	-13.00	-29.87	H
3703.19	-35.38	12.60	12.93	-35.71	-13.00	-22.71	V
5554.21	-34.90	13.10	17.11	-38.91	-13.00	-25.91	V
7406.46	-31.83	11.50	22.20	-42.53	-13.00	-29.53	V
CAT-M Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.81	-33.51	12.60	12.93	-33.84	-13.00	-20.84	H
5640.00	-34.29	13.10	17.11	-38.30	-13.00	-25.30	H
7520.27	-33.60	11.50	22.20	-44.30	-13.00	-31.30	H
3759.81	-35.83	12.60	12.93	-36.16	-13.00	-23.16	V
5640.00	-34.20	13.10	17.11	-38.21	-13.00	-25.21	V
7520.27	-33.18	11.50	22.20	-43.88	-13.00	-30.88	V
CAT-M Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3816.45	-33.69	12.60	12.93	-34.02	-13.00	-21.02	H
5724.92	-35.48	13.10	17.11	-39.49	-13.00	-26.49	H
7633.26	-33.16	11.50	22.20	-43.86	-13.00	-30.86	H
3816.45	-34.65	12.60	12.93	-34.98	-13.00	-21.98	V
5724.92	-34.67	13.10	17.11	-38.68	-13.00	-25.68	V
7633.26	-32.64	11.50	22.20	-43.34	-13.00	-30.34	V



CAT-M Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3710.37	-34.22	12.60	12.93	-34.55	-13.00	-21.55	H
5565.63	-35.40	13.10	17.11	-39.41	-13.00	-26.41	H
7421.04	-32.31	11.50	22.20	-43.01	-13.00	-30.01	H
3710.37	-35.31	12.60	12.93	-35.64	-13.00	-22.64	V
5565.63	-35.20	13.10	17.11	-39.21	-13.00	-26.21	V
7421.04	-32.80	11.50	22.20	-43.50	-13.00	-30.50	V
CAT-M Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.18	-34.77	12.60	12.93	-35.10	-13.00	-22.10	H
5640.00	-35.02	13.10	17.11	-39.03	-13.00	-26.03	H
7520.09	-33.00	11.50	22.20	-43.70	-13.00	-30.70	H
3760.18	-34.61	12.60	12.93	-34.94	-13.00	-21.94	V
5640.00	-33.77	13.10	17.11	-37.78	-13.00	-24.78	V
7520.09	-32.84	11.50	22.20	-43.54	-13.00	-30.54	V
CAT-M Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3808.93	-33.72	12.60	12.93	-34.05	-13.00	-21.05	H
5713.91	-34.75	13.10	17.11	-38.76	-13.00	-25.76	H
7618.31	-33.42	11.50	22.20	-44.12	-13.00	-31.12	H
3808.93	-34.66	12.60	12.93	-34.99	-13.00	-21.99	V
5713.91	-35.23	13.10	17.11	-39.24	-13.00	-26.24	V
7618.31	-31.79	11.50	22.20	-42.49	-13.00	-29.49	V



CAT-M Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3721.47	-34.00	12.60	12.93	-34.33	-13.00	-21.33	H
5581.52	-35.43	13.10	17.11	-39.44	-13.00	-26.44	H
7442.06	-33.20	11.50	22.20	-43.90	-13.00	-30.90	H
3721.47	-34.58	12.60	12.93	-34.91	-13.00	-21.91	V
5581.52	-34.44	13.10	17.11	-38.45	-13.00	-25.45	V
7442.06	-33.10	11.50	22.20	-43.80	-13.00	-30.80	V
CAT-M Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3760.15	-34.80	12.60	12.93	-35.13	-13.00	-22.13	H
5640.04	-34.26	13.10	17.11	-38.27	-13.00	-25.27	H
7519.99	-33.09	11.50	22.20	-43.79	-13.00	-30.79	H
3760.15	-35.78	12.60	12.93	-36.11	-13.00	-23.11	V
5640.04	-34.03	13.10	17.11	-38.04	-13.00	-25.04	V
7519.99	-32.27	11.50	22.20	-42.97	-13.00	-29.97	V
CAT-M Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3798.29	-34.42	12.60	12.93	-34.75	-13.00	-21.75	H
5697.18	-34.33	13.10	17.11	-38.34	-13.00	-25.34	H
7596.76	-32.51	11.50	22.20	-43.21	-13.00	-30.21	H
3798.29	-35.59	12.60	12.93	-35.92	-13.00	-22.92	V
5697.18	-34.44	13.10	17.11	-38.45	-13.00	-25.45	V
7596.76	-33.10	11.50	22.20	-43.80	-13.00	-30.80	V



CAT-M Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3421.34	-34.56	12.90	12.56	-34.22	-13.00	-21.22	H
5132.06	-34.47	13.10	16.32	-37.69	-13.00	-24.69	H
6842.51	-32.24	12.33	21.13	-41.04	-13.00	-28.04	H
3421.34	-35.64	12.90	12.56	-35.30	-13.00	-22.30	V
5132.06	-35.24	13.10	16.32	-38.46	-13.00	-25.46	V
6842.51	-32.46	12.33	21.13	-41.26	-13.00	-28.26	V
CAT-M Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.93	-34.76	12.90	12.56	-34.42	-13.00	-21.42	H
5196.99	-35.38	13.10	16.32	-38.60	-13.00	-25.60	H
6930.15	-32.61	12.33	21.13	-41.41	-13.00	-28.41	H
3464.93	-35.00	12.90	12.56	-34.66	-13.00	-21.66	V
5196.99	-34.19	13.10	16.32	-37.41	-13.00	-24.41	V
6930.15	-31.81	12.33	21.13	-40.61	-13.00	-27.61	V
CAT-M Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3508.17	-33.65	12.90	12.56	-33.31	-13.00	-20.31	H
5262.54	-35.46	13.10	16.32	-38.68	-13.00	-25.68	H
7016.04	-33.17	12.33	21.13	-41.97	-13.00	-28.97	H
3508.17	-35.35	12.90	12.56	-35.01	-13.00	-22.01	V
5262.54	-34.79	13.10	16.32	-38.01	-13.00	-25.01	V
7016.04	-31.74	12.33	21.13	-40.54	-13.00	-27.54	V



CAT-M Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3425.43	-33.85	12.90	12.56	-33.51	-13.00	-20.51	H
5137.09	-34.70	13.10	16.32	-37.92	-13.00	-24.92	H
6850.41	-32.59	12.33	21.13	-41.39	-13.00	-28.39	H
3425.43	-35.41	12.90	12.56	-35.07	-13.00	-22.07	V
5137.09	-34.94	13.10	16.32	-38.16	-13.00	-25.16	V
6850.41	-32.67	12.33	21.13	-41.47	-13.00	-28.47	V
CAT-M Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3465.14	-34.40	12.90	12.56	-34.06	-13.00	-21.06	H
5197.23	-34.70	13.10	16.32	-37.92	-13.00	-24.92	H
6930.30	-33.33	12.33	21.13	-42.13	-13.00	-29.13	H
3465.14	-35.22	12.90	12.56	-34.88	-13.00	-21.88	V
5197.23	-34.35	13.10	16.32	-37.57	-13.00	-24.57	V
6930.30	-32.89	12.33	21.13	-41.69	-13.00	-28.69	V
CAT-M Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3505.70	-34.89	12.90	12.56	-34.55	-13.00	-21.55	H
5257.36	-34.78	13.10	16.32	-38.00	-13.00	-25.00	H
7009.90	-33.02	12.33	21.13	-41.82	-13.00	-28.82	H
3505.70	-34.71	12.90	12.56	-34.37	-13.00	-21.37	V
5257.36	-34.16	13.10	16.32	-37.38	-13.00	-24.38	V
7009.90	-32.21	12.33	21.13	-41.01	-13.00	-28.01	V



CAT-M Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3435.30	-33.95	12.90	12.56	-33.61	-13.00	-20.61	H
5152.51	-34.44	13.10	16.32	-37.66	-13.00	-24.66	H
6870.56	-32.75	12.33	21.13	-41.55	-13.00	-28.55	H
3435.30	-34.64	12.90	12.56	-34.30	-13.00	-21.30	V
5152.51	-35.17	13.10	16.32	-38.39	-13.00	-25.39	V
6870.56	-32.66	12.33	21.13	-41.46	-13.00	-28.46	V
CAT-M Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3465.17	-34.73	12.90	12.56	-34.39	-13.00	-21.39	H
5197.12	-35.46	13.10	16.32	-38.68	-13.00	-25.68	H
6929.91	-32.90	12.33	21.13	-41.70	-13.00	-28.70	H
3465.17	-35.54	12.90	12.56	-35.20	-13.00	-22.20	V
5197.12	-34.93	13.10	16.32	-38.15	-13.00	-25.15	V
6929.91	-33.16	12.33	21.13	-41.96	-13.00	-28.96	V
CAT-M Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3495.76	-34.92	12.90	12.56	-34.58	-13.00	-21.58	H
5242.32	-34.09	13.10	16.32	-37.31	-13.00	-24.31	H
6990.31	-32.59	12.33	21.13	-41.39	-13.00	-28.39	H
3495.76	-35.09	12.90	12.56	-34.75	-13.00	-21.75	V
5242.32	-35.12	13.10	16.32	-38.34	-13.00	-25.34	V
6990.31	-31.79	12.33	21.13	-40.59	-13.00	-27.59	V



CAT-M Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3424.42	-34.80	12.90	12.56	-34.46	-13.00	-21.46	H
5136.29	-34.81	13.10	16.32	-38.03	-13.00	-25.03	H
6848.66	-33.56	12.33	21.13	-42.36	-13.00	-29.36	H
3424.42	-35.86	12.90	12.56	-35.52	-13.00	-22.52	V
5136.29	-34.49	13.10	16.32	-37.71	-13.00	-24.71	V
6848.66	-32.18	12.33	21.13	-40.98	-13.00	-27.98	V
CAT-M Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3465.13	-34.79	12.90	12.56	-34.45	-13.00	-21.45	H
5197.18	-35.17	13.10	16.32	-38.39	-13.00	-25.39	H
6930.11	-32.43	12.33	21.13	-41.23	-13.00	-28.23	H
3465.13	-35.71	12.90	12.56	-35.37	-13.00	-22.37	V
5197.18	-34.02	13.10	16.32	-37.24	-13.00	-24.24	V
6930.11	-33.17	12.33	21.13	-41.97	-13.00	-28.97	V
CAT-M Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3506.68	-34.28	12.90	12.56	-33.94	-13.00	-20.94	H
5262.31	-34.90	13.10	16.32	-38.12	-13.00	-25.12	H
7012.97	-32.57	12.33	21.13	-41.37	-13.00	-28.37	H
3506.68	-35.33	12.90	12.56	-34.99	-13.00	-21.99	V
5262.31	-34.00	13.10	16.32	-37.22	-13.00	-24.22	V
7012.97	-32.50	12.33	21.13	-41.30	-13.00	-28.30	V



CAT-M Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3430.46	-34.42	12.90	12.56	-34.08	-13.00	-21.08	H
5145.32	-34.25	13.10	16.32	-37.47	-13.00	-24.47	H
6860.55	-33.26	12.33	21.13	-42.06	-13.00	-29.06	H
3430.46	-36.02	12.90	12.56	-35.68	-13.00	-22.68	V
5145.32	-35.23	13.10	16.32	-38.45	-13.00	-25.45	V
6860.55	-31.86	12.33	21.13	-40.66	-13.00	-27.66	V
CAT-M Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3465.08	-34.33	12.90	12.56	-33.99	-13.00	-20.99	H
5197.03	-35.31	13.10	16.32	-38.53	-13.00	-25.53	H
6929.96	-33.40	12.33	21.13	-42.20	-13.00	-29.20	H
3465.08	-35.16	12.90	12.56	-34.82	-13.00	-21.82	V
5197.03	-33.86	13.10	16.32	-37.08	-13.00	-24.08	V
6929.96	-32.83	12.33	21.13	-41.63	-13.00	-28.63	V
CAT-M Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3500.62	-33.92	12.90	12.56	-33.58	-13.00	-20.58	H
5250.23	-34.98	13.10	16.32	-38.20	-13.00	-25.20	H
7000.13	-32.17	12.33	21.13	-40.97	-13.00	-27.97	H
3500.62	-34.82	12.90	12.56	-34.48	-13.00	-21.48	V
5250.23	-34.39	13.10	16.32	-37.61	-13.00	-24.61	V
7000.13	-33.17	12.33	21.13	-41.97	-13.00	-28.97	V



CAT-M Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3440.42	-33.93	12.90	12.56	-33.59	-13.00	-20.59	H
5160.56	-34.71	13.10	16.32	-37.93	-13.00	-24.93	H
6880.61	-33.30	12.33	21.13	-42.10	-13.00	-29.10	H
3440.42	-35.65	12.90	12.56	-35.31	-13.00	-22.31	V
5160.56	-34.78	13.10	16.32	-38.00	-13.00	-25.00	V
6880.61	-32.95	12.33	21.13	-41.75	-13.00	-28.75	V
CAT-M Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.78	-34.45	12.90	12.56	-34.11	-13.00	-21.11	H
5197.07	-34.63	13.10	16.32	-37.85	-13.00	-24.85	H
6930.26	-33.20	12.33	21.13	-42.00	-13.00	-29.00	H
3464.78	-35.16	12.90	12.56	-34.82	-13.00	-21.82	V
5197.07	-34.68	13.10	16.32	-37.90	-13.00	-24.90	V
6930.26	-32.99	12.33	21.13	-41.79	-13.00	-28.79	V
CAT-M Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3490.70	-34.13	12.90	12.56	-33.79	-13.00	-20.79	H
5235.03	-34.14	13.10	16.32	-37.36	-13.00	-24.36	H
6980.33	-32.25	12.33	21.13	-41.05	-13.00	-28.05	H
3490.70	-35.34	12.90	12.56	-35.00	-13.00	-22.00	V
5235.03	-34.59	13.10	16.32	-37.81	-13.00	-24.81	V
6980.33	-32.94	12.33	21.13	-41.74	-13.00	-28.74	V



CAT-M Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1649.30	-34.26	9.56	9.72	-34.42	-13.00	-21.42	H
2473.68	-34.47	10.50	10.86	-34.83	-13.00	-21.83	H
3298.31	-33.41	12.78	11.57	-32.20	-13.00	-19.20	H
1649.30	-34.70	9.56	9.72	-34.86	-13.00	-21.86	V
2473.68	-34.73	10.50	10.86	-35.09	-13.00	-22.09	V
3298.31	-32.07	12.78	11.57	-30.86	-13.00	-17.86	V
CAT-M Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.54	-33.87	9.56	9.72	-34.03	-13.00	-21.03	H
2509.03	-35.29	10.50	10.86	-35.65	-13.00	-22.65	H
3345.55	-33.07	12.78	11.57	-31.86	-13.00	-18.86	H
1672.54	-35.22	9.56	9.72	-35.38	-13.00	-22.38	V
2509.03	-34.56	10.50	10.86	-34.92	-13.00	-21.92	V
3345.55	-31.93	12.78	11.57	-30.72	-13.00	-17.72	V
CAT-M Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1696.59	-33.72	9.56	9.72	-33.88	-13.00	-20.88	H
2544.60	-34.40	10.50	10.86	-34.76	-13.00	-21.76	H
3393.07	-32.87	12.78	11.57	-31.66	-13.00	-18.66	H
1696.59	-35.39	9.56	9.72	-35.55	-13.00	-22.55	V
2544.60	-35.04	10.50	10.86	-35.40	-13.00	-22.40	V
3393.07	-31.92	12.78	11.57	-30.71	-13.00	-17.71	V



CAT-M Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1652.50	-34.44	9.56	9.72	-34.60	-13.00	-21.60	H
2479.02	-34.06	10.50	10.86	-34.42	-13.00	-21.42	H
3305.51	-32.63	12.78	11.57	-31.42	-13.00	-18.42	H
1652.50	-35.61	9.56	9.72	-35.77	-13.00	-22.77	V
2479.02	-34.26	10.50	10.86	-34.62	-13.00	-21.62	V
3305.51	-32.46	12.78	11.57	-31.25	-13.00	-18.25	V
CAT-M Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.90	-34.32	9.56	9.72	-34.48	-13.00	-21.48	H
2509.35	-35.00	10.50	10.86	-35.36	-13.00	-22.36	H
3345.63	-33.05	12.78	11.57	-31.84	-13.00	-18.84	H
1672.90	-35.12	9.56	9.72	-35.28	-13.00	-22.28	V
2509.35	-34.17	10.50	10.86	-34.53	-13.00	-21.53	V
3345.63	-31.85	12.78	11.57	-30.64	-13.00	-17.64	V
CAT-M Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1692.73	-33.92	9.56	9.72	-34.08	-13.00	-21.08	H
2539.08	-35.30	10.50	10.86	-35.66	-13.00	-22.66	H
3385.52	-32.18	12.78	11.57	-30.97	-13.00	-17.97	H
1692.73	-34.93	9.56	9.72	-35.09	-13.00	-22.09	V
2539.08	-34.96	10.50	10.86	-35.32	-13.00	-22.32	V
3385.52	-32.55	12.78	11.57	-31.34	-13.00	-18.34	V



CAT-M Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1650.86	-33.59	9.56	9.72	-33.75	-13.00	-20.75	H
2476.33	-34.15	10.50	10.86	-34.51	-13.00	-21.51	H
3301.82	-32.84	12.78	11.57	-31.63	-13.00	-18.63	H
1650.86	-35.99	9.56	9.72	-36.15	-13.00	-23.15	V
2476.33	-34.66	10.50	10.86	-35.02	-13.00	-22.02	V
3301.82	-32.40	12.78	11.57	-31.19	-13.00	-18.19	V
CAT-M Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.81	-34.24	9.56	9.72	-34.40	-13.00	-21.40	H
2509.27	-34.25	10.50	10.86	-34.61	-13.00	-21.61	H
3345.52	-32.17	12.78	11.57	-30.96	-13.00	-17.96	H
1672.81	-34.69	9.56	9.72	-34.85	-13.00	-21.85	V
2509.27	-33.89	10.50	10.86	-34.25	-13.00	-21.25	V
3345.52	-32.05	12.78	11.57	-30.84	-13.00	-17.84	V
CAT-M Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1694.71	-34.72	9.56	9.72	-34.88	-13.00	-21.88	H
2542.38	-34.02	10.50	10.86	-34.38	-13.00	-21.38	H
3389.74	-33.09	12.78	11.57	-31.88	-13.00	-18.88	H
1694.71	-35.88	9.56	9.72	-36.04	-13.00	-23.04	V
2542.38	-34.09	10.50	10.86	-34.45	-13.00	-21.45	V
3389.74	-32.86	12.78	11.57	-31.65	-13.00	-18.65	V



CAT-M Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1657.89	-33.83	9.56	9.72	-33.99	-13.00	-20.99	H
2486.76	-34.56	10.50	10.86	-34.92	-13.00	-21.92	H
3315.61	-33.05	12.78	11.57	-31.84	-13.00	-18.84	H
1657.89	-34.70	9.56	9.72	-34.86	-13.00	-21.86	V
2486.76	-34.09	10.50	10.86	-34.45	-13.00	-21.45	V
3315.61	-32.09	12.78	11.57	-30.88	-13.00	-17.88	V
CAT-M Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.98	-34.11	9.56	9.72	-34.27	-13.00	-21.27	H
2509.08	-34.51	10.50	10.86	-34.87	-13.00	-21.87	H
3345.75	-32.37	12.78	11.57	-31.16	-13.00	-18.16	H
1672.98	-34.82	9.56	9.72	-34.98	-13.00	-21.98	V
2509.08	-34.88	10.50	10.86	-35.24	-13.00	-22.24	V
3345.75	-32.44	12.78	11.57	-31.23	-13.00	-18.23	V
CAT-M Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1687.69	-34.61	9.56	9.72	-34.77	-13.00	-21.77	H
2531.64	-34.98	10.50	10.86	-35.34	-13.00	-22.34	H
3375.51	-32.87	12.78	11.57	-31.66	-13.00	-18.66	H
1687.69	-34.80	9.56	9.72	-34.96	-13.00	-21.96	V
2531.64	-35.23	10.50	10.86	-35.59	-13.00	-22.59	V
3375.51	-31.74	12.78	11.57	-30.53	-13.00	-17.53	V



CAT-M Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1399.29	-34.07	8.17	9.34	-35.24	-13.00	-22.24	H
2098.63	-34.94	9.53	10.42	-35.83	-13.00	-22.83	H
2798.45	-33.65	11.27	11.12	-33.50	-13.00	-20.50	H
1399.29	-35.17	8.17	9.34	-36.34	-13.00	-23.34	V
2098.63	-35.19	9.53	10.42	-36.08	-13.00	-23.08	V
2798.45	-32.88	11.27	11.12	-32.73	-13.00	-19.73	V
CAT-M Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.85	-34.07	8.17	9.34	-35.24	-13.00	-22.24	H
2122.15	-34.86	9.53	10.42	-35.75	-13.00	-22.75	H
2829.78	-32.72	11.27	11.12	-32.57	-13.00	-19.57	H
1414.85	-35.25	8.17	9.34	-36.42	-13.00	-23.42	V
2122.15	-34.69	9.53	10.42	-35.58	-13.00	-22.58	V
2829.78	-32.15	11.27	11.12	-32.00	-13.00	-19.00	V
CAT-M Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1430.24	-33.90	8.17	9.34	-35.07	-13.00	-22.07	H
2145.64	-34.17	9.53	10.42	-35.06	-13.00	-22.06	H
2860.99	-32.41	11.27	11.12	-32.26	-13.00	-19.26	H
1430.24	-35.49	8.17	9.34	-36.66	-13.00	-23.66	V
2145.64	-34.44	9.53	10.42	-35.33	-13.00	-22.33	V
2860.99	-32.44	11.27	11.12	-32.29	-13.00	-19.29	V



CAT-M Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1402.74	-34.46	8.17	9.34	-35.63	-13.00	-22.63	H
2104.42	-35.43	9.53	10.42	-36.32	-13.00	-23.32	H
2805.86	-33.58	11.27	11.12	-33.43	-13.00	-20.43	H
1402.74	-35.93	8.17	9.34	-37.10	-13.00	-24.10	V
2104.42	-34.55	9.53	10.42	-35.44	-13.00	-22.44	V
2805.86	-32.51	11.27	11.12	-32.36	-13.00	-19.36	V
CAT-M Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.86	-33.85	8.17	9.34	-35.02	-13.00	-22.02	H
2122.39	-34.36	9.53	10.42	-35.25	-13.00	-22.25	H
2829.76	-33.64	11.27	11.12	-33.49	-13.00	-20.49	H
1414.86	-35.74	8.17	9.34	-36.91	-13.00	-23.91	V
2122.39	-34.54	9.53	10.42	-35.43	-13.00	-22.43	V
2829.76	-32.20	11.27	11.12	-32.05	-13.00	-19.05	V
CAT-M Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1426.60	-33.60	8.17	9.34	-34.77	-13.00	-21.77	H
2140.15	-34.01	9.53	10.42	-34.90	-13.00	-21.90	H
2853.88	-33.54	11.27	11.12	-33.39	-13.00	-20.39	H
1426.60	-35.55	8.17	9.34	-36.72	-13.00	-23.72	V
2140.15	-34.37	9.53	10.42	-35.26	-13.00	-22.26	V
2853.88	-32.73	11.27	11.12	-32.58	-13.00	-19.58	V



CAT-M Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1400.65	-34.19	8.17	9.34	-35.36	-13.00	-22.36	H
2101.26	-35.38	9.53	10.42	-36.27	-13.00	-23.27	H
2801.80	-32.61	11.27	11.12	-32.46	-13.00	-19.46	H
1400.65	-35.14	8.17	9.34	-36.31	-13.00	-23.31	V
2101.26	-34.68	9.53	10.42	-35.57	-13.00	-22.57	V
2801.80	-32.68	11.27	11.12	-32.53	-13.00	-19.53	V
CAT-M Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.86	-34.23	8.17	9.34	-35.40	-13.00	-22.40	H
2122.12	-34.40	9.53	10.42	-35.29	-13.00	-22.29	H
2829.58	-32.52	11.27	11.12	-32.37	-13.00	-19.37	H
1414.86	-35.79	8.17	9.34	-36.96	-13.00	-23.96	V
2122.12	-35.00	9.53	10.42	-35.89	-13.00	-22.89	V
2829.58	-32.19	11.27	11.12	-32.04	-13.00	-19.04	V
CAT-M Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1428.96	-34.54	8.17	9.34	-35.71	-13.00	-22.71	H
2143.10	-34.71	9.53	10.42	-35.60	-13.00	-22.60	H
2857.67	-32.52	11.27	11.12	-32.37	-13.00	-19.37	H
1428.96	-35.62	8.17	9.34	-36.79	-13.00	-23.79	V
2143.10	-34.25	9.53	10.42	-35.14	-13.00	-22.14	V
2857.67	-32.17	11.27	11.12	-32.02	-13.00	-19.02	V



CAT-M Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1407.58	-34.22	8.17	9.34	-35.39	-13.00	-22.39	H
2111.58	-34.96	9.53	10.42	-35.85	-13.00	-22.85	H
2815.91	-33.03	11.27	11.12	-32.88	-13.00	-19.88	H
1407.58	-34.66	8.17	9.34	-35.83	-13.00	-22.83	V
2111.58	-34.21	9.53	10.42	-35.10	-13.00	-22.10	V
2815.91	-33.20	11.27	11.12	-33.05	-13.00	-20.05	V
CAT-M Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.60	-33.50	8.17	9.34	-34.67	-13.00	-21.67	H
2122.38	-34.21	9.53	10.42	-35.10	-13.00	-22.10	H
2830.00	-33.53	11.27	11.12	-33.38	-13.00	-20.38	H
1414.60	-35.29	8.17	9.34	-36.46	-13.00	-23.46	V
2122.38	-33.76	9.53	10.42	-34.65	-13.00	-21.65	V
2830.00	-32.89	11.27	11.12	-32.74	-13.00	-19.74	V
CAT-M Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1421.90	-34.27	8.17	9.34	-35.44	-13.00	-22.44	H
2132.64	-34.21	9.53	10.42	-35.10	-13.00	-22.10	H
2843.81	-33.52	11.27	11.12	-33.37	-13.00	-20.37	H
1421.90	-35.87	8.17	9.34	-37.04	-13.00	-24.04	V
2132.64	-33.87	9.53	10.42	-34.76	-13.00	-21.76	V
2843.81	-32.36	11.27	11.12	-32.21	-13.00	-19.21	V



CAT-M Band 13 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1558.97	-34.43	8.17	9.34	-35.60	-13.00	-22.60	H
2338.32	-35.38	9.53	10.42	-36.27	-13.00	-23.27	H
3118.29	-32.93	11.27	11.12	-32.78	-13.00	-19.78	H
1558.97	-35.86	8.17	9.34	-37.03	-13.00	-24.03	V
2338.32	-34.49	9.53	10.42	-35.38	-13.00	-22.38	V
3118.29	-32.51	11.27	11.12	-32.36	-13.00	-19.36	V
CAT-M Band 13 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1564.25	-34.25	8.17	9.34	-35.42	-13.00	-22.42	H
2345.70	-35.26	9.53	10.42	-36.15	-13.00	-23.15	H
3127.85	-32.84	11.27	11.12	-32.69	-13.00	-19.69	H
1564.25	-35.05	8.17	9.34	-36.22	-13.00	-23.22	V
2345.70	-34.73	9.53	10.42	-35.62	-13.00	-22.62	V
3127.85	-32.82	11.27	11.12	-32.67	-13.00	-19.67	V
CAT-M Band 13 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1569.09	-33.61	8.17	9.34	-34.78	-13.00	-21.78	H
2353.10	-34.03	9.53	10.42	-34.92	-13.00	-21.92	H
3138.26	-33.42	11.27	11.12	-33.27	-13.00	-20.27	H
1569.09	-35.42	8.17	9.34	-36.59	-13.00	-23.59	V
2353.10	-34.41	9.53	10.42	-35.30	-13.00	-22.30	V
3138.26	-32.65	11.27	11.12	-32.50	-13.00	-19.50	V

CAT-M Band 13 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1564.13	-33.45	8.17	9.34	-34.62	-13.00	-21.62	H
2346.10	-35.08	9.53	10.42	-35.97	-13.00	-22.97	H
3127.87	-33.08	11.27	11.12	-32.93	-13.00	-19.93	H
1564.13	-35.63	8.17	9.34	-36.80	-13.00	-23.80	V
2346.10	-34.96	9.53	10.42	-35.85	-13.00	-22.85	V
3127.87	-33.19	11.27	11.12	-33.04	-13.00	-20.04	V



CAT-M Band 25 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3701.28	-34.89	12.60	12.93	-35.22	-13.00	-22.22	H
5551.80	-34.80	13.10	17.11	-38.81	-13.00	-25.81	H
7402.65	-32.63	11.50	22.20	-43.33	-13.00	-30.33	H
3701.28	-35.85	12.60	12.93	-36.18	-13.00	-23.18	V
5551.80	-34.81	13.10	17.11	-38.82	-13.00	-25.82	V
7402.65	-32.87	11.50	22.20	-43.57	-13.00	-30.57	V
CAT-M Band 25 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3765.08	-34.30	12.60	12.93	-34.63	-13.00	-21.63	H
5646.95	-34.83	13.10	17.11	-38.84	-13.00	-25.84	H
7529.86	-33.25	11.50	22.20	-43.95	-13.00	-30.95	H
3765.08	-35.59	12.60	12.93	-35.92	-13.00	-22.92	V
5646.95	-35.02	13.10	17.11	-39.03	-13.00	-26.03	V
7529.86	-32.55	11.50	22.20	-43.25	-13.00	-30.25	V
CAT-M Band 25 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3828.20	-33.52	12.60	12.93	-33.85	-13.00	-20.85	H
5727.56	-34.80	13.10	17.11	-38.81	-13.00	-25.81	H
7656.87	-32.31	11.50	22.20	-43.01	-13.00	-30.01	H
3828.20	-34.83	12.60	12.93	-35.16	-13.00	-22.16	V
5727.56	-34.11	13.10	17.11	-38.12	-13.00	-25.12	V
7656.87	-32.39	11.50	22.20	-43.09	-13.00	-30.09	V



CAT-M Band 25 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3705.36	-34.35	12.60	12.93	-34.68	-13.00	-21.68	H
5557.56	-34.15	13.10	17.11	-38.16	-13.00	-25.16	H
7409.77	-32.32	11.50	22.20	-43.02	-13.00	-30.02	H
3705.36	-34.87	12.60	12.93	-35.20	-13.00	-22.20	V
5557.56	-33.83	13.10	17.11	-37.84	-13.00	-24.84	V
7409.77	-32.14	11.50	22.20	-42.84	-13.00	-29.84	V
CAT-M Band 25 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3764.78	-33.50	12.60	12.93	-33.83	-13.00	-20.83	H
5646.87	-34.80	13.10	17.11	-38.81	-13.00	-25.81	H
7529.93	-32.93	11.50	22.20	-43.63	-13.00	-30.63	H
3764.78	-35.46	12.60	12.93	-35.79	-13.00	-22.79	V
5646.87	-34.56	13.10	17.11	-38.57	-13.00	-25.57	V
7529.93	-32.04	11.50	22.20	-42.74	-13.00	-29.74	V
CAT-M Band 25 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3825.04	-34.29	12.60	12.93	-34.62	-13.00	-21.62	H
5737.28	-35.21	13.10	17.11	-39.22	-13.00	-26.22	H
7650.50	-32.80	11.50	22.20	-43.50	-13.00	-30.50	H
3825.04	-34.62	12.60	12.93	-34.95	-13.00	-21.95	V
5737.28	-34.12	13.10	17.11	-38.13	-13.00	-25.13	V
7650.50	-31.93	11.50	22.20	-42.63	-13.00	-29.63	V



CAT-M Band 25 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3714.88	-33.65	12.60	12.93	-33.98	-13.00	-20.98	H
5572.52	-34.03	13.10	17.11	-38.04	-13.00	-25.04	H
7430.49	-32.40	11.50	22.20	-43.10	-13.00	-30.10	H
3714.88	-35.54	12.60	12.93	-35.87	-13.00	-22.87	V
5572.52	-34.94	13.10	17.11	-38.95	-13.00	-25.95	V
7430.49	-31.76	11.50	22.20	-42.46	-13.00	-29.46	V
CAT-M Band 25 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3765.20	-34.29	12.60	12.93	-34.62	-13.00	-21.62	H
5647.21	-35.41	13.10	17.11	-39.42	-13.00	-26.42	H
7429.98	-32.72	11.50	22.20	-43.42	-13.00	-30.42	H
3765.20	-35.67	12.60	12.93	-36.00	-13.00	-23.00	V
5647.21	-33.77	13.10	17.11	-37.78	-13.00	-24.78	V
7429.98	-31.74	11.50	22.20	-42.44	-13.00	-29.44	V
CAT-M Band 25 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3815.48	-34.47	12.60	12.93	-34.80	-13.00	-21.80	H
5722.10	-34.98	13.10	17.11	-38.99	-13.00	-25.99	H
7630.47	-32.62	11.50	22.20	-43.32	-13.00	-30.32	H
3815.48	-35.25	12.60	12.93	-35.58	-13.00	-22.58	V
5722.10	-34.65	13.10	17.11	-38.66	-13.00	-25.66	V
7630.47	-31.82	11.50	22.20	-42.52	-13.00	-29.52	V



CAT-M Band 25 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3702.91	-34.78	12.60	12.93	-35.11	-13.00	-22.11	H
5554.55	-35.01	13.10	17.11	-39.02	-13.00	-26.02	H
7405.69	-32.25	11.50	22.20	-42.95	-13.00	-29.95	H
3702.91	-34.73	12.60	12.93	-35.06	-13.00	-22.06	V
5554.55	-35.08	13.10	17.11	-39.09	-13.00	-26.09	V
7405.69	-33.12	11.50	22.20	-43.82	-13.00	-30.82	V
CAT-M Band 25 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3764.80	-34.20	12.60	12.93	-34.53	-13.00	-21.53	H
5646.99	-35.47	13.10	17.11	-39.48	-13.00	-26.48	H
7530.07	-32.70	11.50	22.20	-43.40	-13.00	-30.40	H
3764.80	-35.15	12.60	12.93	-35.48	-13.00	-22.48	V
5646.99	-34.29	13.10	17.11	-38.30	-13.00	-25.30	V
7530.07	-32.23	11.50	22.20	-42.93	-13.00	-29.93	V
CAT-M Band 25 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3826.90	-34.69	12.60	12.93	-35.02	-13.00	-22.02	H
5739.86	-34.11	13.10	17.11	-38.12	-13.00	-25.12	H
7654.53	-33.15	11.50	22.20	-43.85	-13.00	-30.85	H
3826.90	-35.20	12.60	12.93	-35.53	-13.00	-22.53	V
5739.86	-35.04	13.10	17.11	-39.05	-13.00	-26.05	V
7654.53	-32.61	11.50	22.20	-43.31	-13.00	-30.31	V



CAT-M Band 25 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3710.23	-34.62	12.60	12.93	-34.95	-13.00	-21.95	H
5565.41	-35.12	13.10	17.11	-39.13	-13.00	-26.13	H
7419.92	-33.14	11.50	22.20	-43.84	-13.00	-30.84	H
3710.23	-35.48	12.60	12.93	-35.81	-13.00	-22.81	V
5565.41	-35.06	13.10	17.11	-39.07	-13.00	-26.07	V
7419.92	-32.67	11.50	22.20	-43.37	-13.00	-30.37	V
CAT-M Band 25 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3765.23	-34.34	12.60	12.93	-34.67	-13.00	-21.67	H
5647.44	-34.79	13.10	17.11	-38.80	-13.00	-25.80	H
7529.81	-32.46	11.50	22.20	-43.16	-13.00	-30.16	H
3765.23	-35.34	12.60	12.93	-35.67	-13.00	-22.67	V
5647.44	-33.82	13.10	17.11	-37.83	-13.00	-24.83	V
7529.81	-32.04	11.50	22.20	-42.74	-13.00	-29.74	V
CAT-M Band 25 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3819.97	-34.10	12.60	12.93	-34.43	-13.00	-21.43	H
5729.71	-34.86	13.10	17.11	-38.87	-13.00	-25.87	H
7640.01	-33.34	11.50	22.20	-44.04	-13.00	-31.04	H
3819.97	-35.95	12.60	12.93	-36.28	-13.00	-23.28	V
5729.71	-35.09	13.10	17.11	-39.10	-13.00	-26.10	V
7640.01	-32.88	11.50	22.20	-43.58	-13.00	-30.58	V



CAT-M Band 25 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3720.01	-34.73	12.60	12.93	-35.06	-13.00	-22.06	H
5580.52	-34.93	13.10	17.11	-38.94	-13.00	-25.94	H
7439.79	-32.39	11.50	22.20	-43.09	-13.00	-30.09	H
3720.01	-34.90	12.60	12.93	-35.23	-13.00	-22.23	V
5580.52	-34.34	13.10	17.11	-38.35	-13.00	-25.35	V
7439.79	-32.92	11.50	22.20	-43.62	-13.00	-30.62	V
CAT-M Band 25 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3764.79	-33.90	12.60	12.93	-34.23	-13.00	-21.23	H
5646.80	-34.89	13.10	17.11	-38.90	-13.00	-25.90	H
7529.81	-33.41	11.50	22.20	-44.11	-13.00	-31.11	H
3764.79	-35.65	12.60	12.93	-35.98	-13.00	-22.98	V
5646.80	-34.64	13.10	17.11	-38.65	-13.00	-25.65	V
7529.81	-31.89	11.50	22.20	-42.59	-13.00	-29.59	V
CAT-M Band 25 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3810.47	-33.74	12.60	12.93	-34.07	-13.00	-21.07	H
5715.48	-34.73	13.10	17.11	-38.74	-13.00	-25.74	H
7620.12	-33.16	11.50	22.20	-43.86	-13.00	-30.86	H
3810.47	-35.25	12.60	12.93	-35.58	-13.00	-22.58	V
5715.48	-34.47	13.10	17.11	-38.48	-13.00	-25.48	V
7620.12	-33.09	11.50	22.20	-43.79	-13.00	-30.79	V

**CAT-M Band 26(Part22) / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest**

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1649.29	-33.52	9.56	9.72	-33.68	-13.00	-20.68	H
2473.67	-34.61	10.50	10.86	-34.97	-13.00	-21.97	H
3298.66	-33.43	12.78	11.57	-32.22	-13.00	-19.22	H
1649.29	-34.93	9.56	9.72	-35.09	-13.00	-22.09	V
2473.67	-35.18	10.50	10.86	-35.54	-13.00	-22.54	V
3298.66	-32.87	12.78	11.57	-31.66	-13.00	-18.66	V

CAT-M Band 26(Part22) / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1672.77	-34.80	9.56	9.72	-34.96	-13.00	-21.96	H
2508.83	-34.70	10.50	10.86	-35.06	-13.00	-22.06	H
3345.90	-33.41	12.78	11.57	-32.20	-13.00	-19.20	H
1672.77	-35.77	9.56	9.72	-35.93	-13.00	-22.93	V
2508.83	-34.99	10.50	10.86	-35.35	-13.00	-22.35	V
3345.90	-32.01	12.78	11.57	-30.80	-13.00	-17.80	V

CAT-M Band 26(Part22) / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1696.39	-33.49	9.56	9.72	-33.65	-13.00	-20.65	H
2544.60	-34.18	10.50	10.86	-34.54	-13.00	-21.54	H
3392.99	-33.40	12.78	11.57	-32.19	-13.00	-19.19	H
1696.39	-34.83	9.56	9.72	-34.99	-13.00	-21.99	V
2544.60	-35.10	10.50	10.86	-35.46	-13.00	-22.46	V
3392.99	-33.15	12.78	11.57	-31.94	-13.00	-18.94	V



**CAT-M Band 26(Part22) / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for
Lowest**

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1652.70	-33.84	9.56	9.72	-34.00	-13.00	-21.00	H
2479.63	-34.17	10.50	10.86	-34.53	-13.00	-21.53	H
3306.68	-32.71	12.78	11.57	-31.50	-13.00	-18.50	H
1652.70	-34.66	9.56	9.72	-34.82	-13.00	-21.82	V
2479.63	-34.91	10.50	10.86	-35.27	-13.00	-22.27	V
3306.68	-32.68	12.78	11.57	-31.47	-13.00	-18.47	V

**CAT-M Band 26(Part22) / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for
Middle**

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.99	-33.47	9.56	9.72	-33.63	-13.00	-20.63	H
2509.13	-35.28	10.50	10.86	-35.64	-13.00	-22.64	H
3346.08	-33.46	12.78	11.57	-32.25	-13.00	-19.25	H
1672.99	-34.79	9.56	9.72	-34.95	-13.00	-21.95	V
2509.13	-34.97	10.50	10.86	-35.33	-13.00	-22.33	V
3346.08	-33.17	12.78	11.57	-31.96	-13.00	-18.96	V

**CAT-M Band 26(Part22) / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for
Highest**

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1693.68	-33.51	9.56	9.72	-33.67	-13.00	-20.67	H
2539.48	-34.39	10.50	10.86	-34.75	-13.00	-21.75	H
3386.03	-33.59	12.78	11.57	-32.38	-13.00	-19.38	H
1693.68	-34.82	9.56	9.72	-34.98	-13.00	-21.98	V
2539.48	-34.32	10.50	10.86	-34.68	-13.00	-21.68	V
3386.03	-32.89	12.78	11.57	-31.68	-13.00	-18.68	V



**CAT-M Band 26(Part22) / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for
Lowest**

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1663.20	-34.91	9.56	9.72	-35.07	-13.00	-22.07	H
2494.45	-34.64	10.50	10.86	-35.00	-13.00	-22.00	H
3325.85	-33.34	12.78	11.57	-32.13	-13.00	-19.13	H
1663.20	-34.80	9.56	9.72	-34.96	-13.00	-21.96	V
2494.45	-34.58	10.50	10.86	-34.94	-13.00	-21.94	V
3325.85	-32.32	12.78	11.57	-31.11	-13.00	-18.11	V

**CAT-M Band 26(Part22) / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for
Middle**

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1673.19	-33.49	9.56	9.72	-33.65	-13.00	-20.65	H
2509.25	-35.31	10.50	10.86	-35.67	-13.00	-22.67	H
3346.28	-33.01	12.78	11.57	-31.80	-13.00	-18.80	H
1673.19	-34.74	9.56	9.72	-34.90	-13.00	-21.90	V
2509.25	-33.88	10.50	10.86	-34.24	-13.00	-21.24	V
3346.28	-32.94	12.78	11.57	-31.73	-13.00	-18.73	V

**CAT-M Band 26(Part22) / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for
Highest**

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1683.78	-33.71	9.56	9.72	-33.87	-13.00	-20.87	H
2524.11	-34.48	10.50	10.86	-34.84	-13.00	-21.84	H
3366.52	-32.79	12.78	11.57	-31.58	-13.00	-18.58	H
1683.78	-35.67	9.56	9.72	-35.83	-13.00	-22.83	V
2524.11	-35.14	10.50	10.86	-35.50	-13.00	-22.50	V
3366.52	-31.97	12.78	11.57	-30.76	-13.00	-17.76	V



CAT-M Band 26(Part22) / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1651.33	-33.97	9.56	9.72	-34.13	-13.00	-21.13	H
2476.52	-34.42	10.50	10.86	-34.78	-13.00	-21.78	H
3301.71	-33.20	12.78	11.57	-31.99	-13.00	-18.99	H
1651.33	-34.64	9.56	9.72	-34.80	-13.00	-21.80	V
2476.52	-34.54	10.50	10.86	-34.90	-13.00	-21.90	V
3301.71	-31.75	12.78	11.57	-30.54	-13.00	-17.54	V
CAT-M Band 26(Part22) / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.89	-33.44	9.56	9.72	-33.60	-13.00	-20.60	H
2508.97	-34.78	10.50	10.86	-35.14	-13.00	-22.14	H
3346.09	-32.78	12.78	11.57	-31.57	-13.00	-18.57	H
1672.89	-35.90	9.56	9.72	-36.06	-13.00	-23.06	V
2508.97	-33.89	10.50	10.86	-34.25	-13.00	-21.25	V
3346.09	-33.05	12.78	11.57	-31.84	-13.00	-18.84	V
CAT-M Band 26(Part22) / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1695.48	-34.41	9.56	9.72	-34.57	-13.00	-21.57	H
2542.38	-34.99	10.50	10.86	-35.35	-13.00	-22.35	H
3389.95	-32.49	12.78	11.57	-31.28	-13.00	-18.28	H
1695.48	-35.59	9.56	9.72	-35.75	-13.00	-22.75	V
2542.38	-34.38	10.50	10.86	-34.74	-13.00	-21.74	V
3389.95	-32.51	12.78	11.57	-31.30	-13.00	-18.30	V



CAT-M Band 26(Part22) / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1657.79	-34.54	9.56	9.72	-34.70	-13.00	-21.70	H
2486.56	-34.04	10.50	10.86	-34.40	-13.00	-21.40	H
3315.51	-32.82	12.78	11.57	-31.61	-13.00	-18.61	H
1657.79	-35.39	9.56	9.72	-35.55	-13.00	-22.55	V
2486.56	-34.15	10.50	10.86	-34.51	-13.00	-21.51	V
3315.51	-32.57	12.78	11.57	-31.36	-13.00	-18.36	V
CAT-M Band 26(Part22) / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1673.19	-33.59	9.56	9.72	-33.75	-13.00	-20.75	H
2509.08	-35.30	10.50	10.86	-35.66	-13.00	-22.66	H
3346.13	-32.77	12.78	11.57	-31.56	-13.00	-18.56	H
1673.19	-35.82	9.56	9.72	-35.98	-13.00	-22.98	V
2509.08	-33.94	10.50	10.86	-34.30	-13.00	-21.30	V
3346.13	-32.38	12.78	11.57	-31.17	-13.00	-18.17	V
CAT-M Band 26(Part22) / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1688.41	-34.12	9.56	9.72	-34.28	-13.00	-21.28	H
2532.43	-35.10	10.50	10.86	-35.46	-13.00	-22.46	H
3376.24	-32.67	12.78	11.57	-31.46	-13.00	-18.46	H
1688.41	-35.84	9.56	9.72	-36.00	-13.00	-23.00	V
2532.43	-34.76	10.50	10.86	-35.12	-13.00	-22.12	V
3376.24	-32.33	12.78	11.57	-31.12	-13.00	-18.12	V



CAT-M Band 26(Part90) / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1629.20	-33.57	9.56	9.72	-33.73	-13.00	-20.73	H
2443.77	-35.29	10.50	10.86	-35.65	-13.00	-22.65	H
3258.72	-33.32	12.78	11.57	-32.11	-13.00	-19.11	H
1629.20	-34.70	9.56	9.72	-34.86	-13.00	-21.86	V
2443.77	-34.35	10.50	10.86	-34.71	-13.00	-21.71	V
3258.72	-32.85	12.78	11.57	-31.64	-13.00	-18.64	V

CAT-M Band 26v / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1638.24	-34.22	9.56	9.72	-34.38	-13.00	-21.38	H
2456.89	-35.05	10.50	10.86	-35.41	-13.00	-22.41	H
3275.83	-33.45	12.78	11.57	-32.24	-13.00	-19.24	H
1638.24	-35.27	9.56	9.72	-35.43	-13.00	-22.43	V
2456.89	-33.95	10.50	10.86	-34.31	-13.00	-21.31	V
3275.83	-32.48	12.78	11.57	-31.27	-13.00	-18.27	V

CAT-M Band 26(Part90) / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1646.26	-34.63	9.56	9.72	-34.79	-13.00	-21.79	H
2456.90	-34.51	10.50	10.86	-34.87	-13.00	-21.87	H
3258.06	-32.83	12.78	11.57	-31.62	-13.00	-18.62	H
1646.26	-35.91	9.56	9.72	-36.07	-13.00	-23.07	V
2456.90	-33.87	10.50	10.86	-34.23	-13.00	-21.23	V
3258.06	-32.15	12.78	11.57	-30.94	-13.00	-17.94	V



CAT-M Band 26(Part90) / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1632.94	-34.27	9.56	9.72	-34.43	-13.00	-21.43	H
2449.62	-34.93	10.50	10.86	-35.29	-13.00	-22.29	H
3266.80	-33.36	12.78	11.57	-32.15	-13.00	-19.15	H
1632.94	-35.19	9.56	9.72	-35.35	-13.00	-22.35	V
2449.62	-33.99	10.50	10.86	-34.35	-13.00	-21.35	V
3266.80	-32.49	12.78	11.57	-31.28	-13.00	-18.28	V
CAT-M Band 26(Part90) / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1637.85	-34.28	9.56	9.72	-34.44	-13.00	-21.44	H
2456.90	-35.37	10.50	10.86	-35.73	-13.00	-22.73	H
3276.18	-32.18	12.78	11.57	-30.97	-13.00	-17.97	H
1637.85	-35.89	9.56	9.72	-36.05	-13.00	-23.05	V
2456.90	-33.84	10.50	10.86	-34.20	-13.00	-21.20	V
3276.18	-31.77	12.78	11.57	-30.56	-13.00	-17.56	V
CAT-M Band 26(Part90) / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1643.08	-34.78	9.56	9.72	-34.94	-13.00	-21.94	H
2464.28	-34.59	10.50	10.86	-34.95	-13.00	-21.95	H
3286.32	-32.46	12.78	11.57	-31.25	-13.00	-18.25	H
1643.08	-34.58	9.56	9.72	-34.74	-13.00	-21.74	V
2464.28	-35.01	10.50	10.86	-35.37	-13.00	-22.37	V
3286.32	-32.98	12.78	11.57	-31.77	-13.00	-18.77	V

**CAT-M Band 26(Part90) / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle**

Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
1637.88	-33.91	9.56	9.72	-34.07	-13.00	-21.07	H
2457.01	-35.14	10.50	10.86	-35.50	-13.00	-22.50	H
3276.09	-32.73	12.78	11.57	-31.52	-13.00	-18.52	H
1637.88	-35.12	9.56	9.72	-35.28	-13.00	-22.28	V
2457.01	-34.10	10.50	10.86	-34.46	-13.00	-21.46	V
3276.09	-32.71	12.78	11.57	-31.50	-13.00	-18.50	V





CAT-M Band 26(Part90) / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1631.14	-33.49	9.56	9.72	-33.65	-13.00	-20.65	H
2446.50	-35.36	10.50	10.86	-35.72	-13.00	-22.72	H
3261.57	-33.46	12.78	11.57	-32.25	-13.00	-19.25	H
1631.14	-35.95	9.56	9.72	-36.11	-13.00	-23.11	V
2446.50	-34.33	10.50	10.86	-34.69	-13.00	-21.69	V
3261.57	-32.18	12.78	11.57	-30.97	-13.00	-17.97	V
CAT-M Band 26(Part90) / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1637.96	-34.06	9.56	9.72	-34.22	-13.00	-21.22	H
2457.27	-34.47	10.50	10.86	-34.83	-13.00	-21.83	H
3276.27	-32.79	12.78	11.57	-31.58	-13.00	-18.58	H
1637.96	-35.85	9.56	9.72	-36.01	-13.00	-23.01	V
2457.27	-34.72	10.50	10.86	-35.08	-13.00	-22.08	V
3276.27	-32.07	12.78	11.57	-30.86	-13.00	-17.86	V
CAT-M Band 26(Part90) / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1644.64	-34.55	9.56	9.72	-34.71	-13.00	-21.71	H
2467.48	-34.86	10.50	10.86	-35.22	-13.00	-22.22	H
3275.89	-32.20	12.78	11.57	-30.99	-13.00	-17.99	H
1644.64	-35.14	9.56	9.72	-35.30	-13.00	-22.30	V
2467.48	-34.30	10.50	10.86	-34.66	-13.00	-21.66	V
3275.89	-32.11	12.78	11.57	-30.90	-13.00	-17.90	V



CAT-M Band 66 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3421.26	-34.63	12.90	12.56	-34.29	-13.00	-21.29	H
5132.11	-34.49	13.10	16.32	-37.71	-13.00	-24.71	H
6842.53	-33.15	12.33	21.13	-41.95	-13.00	-28.95	H
3421.26	-34.97	12.90	12.56	-34.63	-13.00	-21.63	V
5132.11	-34.06	13.10	16.32	-37.28	-13.00	-24.28	V
6842.53	-32.85	12.33	21.13	-41.65	-13.00	-28.65	V
CAT-M Band 66 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3490.22	-34.00	12.90	12.56	-33.66	-13.00	-20.66	H
5234.80	-34.77	13.10	16.32	-37.99	-13.00	-24.99	H
6980.24	-33.27	12.33	21.13	-42.07	-13.00	-29.07	H
3490.22	-35.65	12.90	12.56	-35.31	-13.00	-22.31	V
5234.80	-33.99	13.10	16.32	-37.21	-13.00	-24.21	V
6980.24	-33.00	12.33	21.13	-41.80	-13.00	-28.80	V
CAT-M Band 66 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3558.04	-34.46	12.90	12.56	-34.12	-13.00	-21.12	H
5336.84	-34.31	13.10	16.32	-37.53	-13.00	-24.53	H
7116.92	-33.61	12.33	21.13	-42.41	-13.00	-29.41	H
3558.04	-35.01	12.90	12.56	-34.67	-13.00	-21.67	V
5336.84	-34.28	13.10	16.32	-37.50	-13.00	-24.50	V
7116.92	-31.86	12.33	21.13	-40.66	-13.00	-27.66	V



CAT-M Band 66 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3425.01	-33.54	12.90	12.56	-33.20	-13.00	-20.20	H
5137.25	-34.27	13.10	16.32	-37.49	-13.00	-24.49	H
6850.38	-32.37	12.33	21.13	-41.17	-13.00	-28.17	H
3425.01	-34.97	12.90	12.56	-34.63	-13.00	-21.63	V
5137.25	-35.25	13.10	16.32	-38.47	-13.00	-25.47	V
6850.38	-32.90	12.33	21.13	-41.70	-13.00	-28.70	V
CAT-M Band 66 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3489.77	-33.59	12.90	12.56	-33.25	-13.00	-20.25	H
5234.94	-35.08	13.10	16.32	-38.30	-13.00	-25.30	H
6980.19	-33.09	12.33	21.13	-41.89	-13.00	-28.89	H
3489.77	-35.33	12.90	12.56	-34.99	-13.00	-21.99	V
5234.94	-34.38	13.10	16.32	-37.60	-13.00	-24.60	V
6980.19	-32.49	12.33	21.13	-41.29	-13.00	-28.29	V
CAT-M Band 66 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3558.22	-33.51	12.90	12.56	-33.17	-13.00	-20.17	H
52354.13	-35.17	13.10	16.32	-38.39	-13.00	-25.39	H
7109.77	-32.95	12.33	21.13	-41.75	-13.00	-28.75	H
3558.22	-34.83	12.90	12.56	-34.49	-13.00	-21.49	V
52354.13	-34.98	13.10	16.32	-38.20	-13.00	-25.20	V
7109.77	-32.93	12.33	21.13	-41.73	-13.00	-28.73	V



CAT-M Band 66 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3434.99	-33.49	12.90	12.56	-33.15	-13.00	-20.15	H
5152.48	-34.14	13.10	16.32	-37.36	-13.00	-24.36	H
6869.94	-32.26	12.33	21.13	-41.06	-13.00	-28.06	H
3434.99	-35.10	12.90	12.56	-34.76	-13.00	-21.76	V
5152.48	-35.12	13.10	16.32	-38.34	-13.00	-25.34	V
6869.94	-32.62	12.33	21.13	-41.42	-13.00	-28.42	V
CAT-M Band 66 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3490.24	-34.49	12.90	12.56	-34.15	-13.00	-21.15	H
5234.86	-35.15	13.10	16.32	-38.37	-13.00	-25.37	H
6980.22	-32.83	12.33	21.13	-41.63	-13.00	-28.63	H
3490.24	-35.47	12.90	12.56	-35.13	-13.00	-22.13	V
5234.86	-33.82	13.10	16.32	-37.04	-13.00	-24.04	V
6980.22	-31.84	12.33	21.13	-40.64	-13.00	-27.64	V
CAT-M Band 66 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3545.07	-34.16	12.90	12.56	-33.82	-13.00	-20.82	H
5332.22	-34.19	13.10	16.32	-37.41	-13.00	-24.41	H
7090.19	-32.65	12.33	21.13	-41.45	-13.00	-28.45	H
3545.07	-35.46	12.90	12.56	-35.12	-13.00	-22.12	V
5332.22	-35.19	13.10	16.32	-38.41	-13.00	-25.41	V
7090.19	-32.92	12.33	21.13	-41.72	-13.00	-28.72	V



CAT-M Band 66 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3422.95	-34.89	12.90	12.56	-34.55	-13.00	-21.55	H
5134.56	-35.24	13.10	16.32	-38.46	-13.00	-25.46	H
6845.99	-32.53	12.33	21.13	-41.33	-13.00	-28.33	H
3422.95	-35.47	12.90	12.56	-35.13	-13.00	-22.13	V
5134.56	-34.35	13.10	16.32	-37.57	-13.00	-24.57	V
6845.99	-31.87	12.33	21.13	-40.67	-13.00	-27.67	V
CAT-M Band 66 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3490.01	-33.47	12.90	12.56	-33.13	-13.00	-20.13	H
5235.05	-34.52	13.10	16.32	-37.74	-13.00	-24.74	H
6979.95	-32.49	12.33	21.13	-41.29	-13.00	-28.29	H
3490.01	-34.53	12.90	12.56	-34.19	-13.00	-21.19	V
5235.05	-35.06	13.10	16.32	-38.28	-13.00	-25.28	V
6979.95	-32.90	12.33	21.13	-41.70	-13.00	-28.70	V
CAT-M Band 66 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3556.99	-34.53	12.90	12.56	-34.19	-13.00	-21.19	H
5262.10	-34.23	13.10	16.32	-37.45	-13.00	-24.45	H
7113.80	-33.45	12.33	21.13	-42.25	-13.00	-29.25	H
3556.99	-35.91	12.90	12.56	-35.57	-13.00	-22.57	V
5262.10	-34.45	13.10	16.32	-37.67	-13.00	-24.67	V
7113.80	-32.49	12.33	21.13	-41.29	-13.00	-28.29	V



CAT-M Band 66 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3430.08	-34.46	12.90	12.56	-34.12	-13.00	-21.12	H
5145.19	-35.11	13.10	16.32	-38.33	-13.00	-25.33	H
6880.10	-33.64	12.33	21.13	-42.44	-13.00	-29.44	H
3430.08	-34.78	12.90	12.56	-34.44	-13.00	-21.44	V
5145.19	-33.89	13.10	16.32	-37.11	-13.00	-24.11	V
6880.10	-32.24	12.33	21.13	-41.04	-13.00	-28.04	V
CAT-M Band 66 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3489.94	-34.81	12.90	12.56	-34.47	-13.00	-21.47	H
5235.26	-34.59	13.10	16.32	-37.81	-13.00	-24.81	H
6980.25	-32.81	12.33	21.13	-41.61	-13.00	-28.61	H
3489.94	-35.85	12.90	12.56	-35.51	-13.00	-22.51	V
5235.26	-34.16	13.10	16.32	-37.38	-13.00	-24.38	V
6980.25	-32.98	12.33	21.13	-41.78	-13.00	-28.78	V
CAT-M Band 66 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3550.74	-34.11	12.90	12.56	-33.77	-13.00	-20.77	H
5235.28	-34.44	13.10	16.32	-37.66	-13.00	-24.66	H
7099.95	-33.00	12.33	21.13	-41.80	-13.00	-28.80	H
3550.74	-35.99	12.90	12.56	-35.65	-13.00	-22.65	V
5235.28	-34.26	13.10	16.32	-37.48	-13.00	-24.48	V
7099.95	-32.42	12.33	21.13	-41.22	-13.00	-28.22	V



CAT-M Band 66 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3440.25	-33.85	12.90	12.56	-33.51	-13.00	-20.51	H
5160.19	-34.13	13.10	16.32	-37.35	-13.00	-24.35	H
6880.20	-33.36	12.33	21.13	-42.16	-13.00	-29.16	H
3440.25	-34.98	12.90	12.56	-34.64	-13.00	-21.64	V
5160.19	-34.29	13.10	16.32	-37.51	-13.00	-24.51	V
6880.20	-32.94	12.33	21.13	-41.74	-13.00	-28.74	V
CAT-M Band 66 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3490.16	-34.77	12.90	12.56	-34.43	-13.00	-21.43	H
5235.09	-35.23	13.10	16.32	-38.45	-13.00	-25.45	H
6980.24	-32.68	12.33	21.13	-41.48	-13.00	-28.48	H
3490.16	-35.91	12.90	12.56	-35.57	-13.00	-22.57	V
5235.09	-33.93	13.10	16.32	-37.15	-13.00	-24.15	V
6980.24	-32.17	12.33	21.13	-40.97	-13.00	-27.97	V
CAT-M Band 66 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3539.84	-34.14	12.90	12.56	-33.80	-13.00	-20.80	H
5309.84	-35.39	13.10	16.32	-38.61	-13.00	-25.61	H
7080.52	-32.43	12.33	21.13	-41.23	-13.00	-28.23	H
3539.84	-34.67	12.90	12.56	-34.33	-13.00	-21.33	V
5309.84	-34.77	13.10	16.32	-37.99	-13.00	-24.99	V
7080.52	-32.50	12.33	21.13	-41.30	-13.00	-28.30	V



CAT-M Band 85 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1401.19	-33.56	8.17	9.34	-34.73	-13.00	-21.73	H
2101.51	-34.47	9.53	10.42	-35.36	-13.00	-22.36	H
2802.19	-32.59	11.27	11.12	-32.44	-13.00	-19.44	H
1401.19	-35.85	8.17	9.34	-37.02	-13.00	-24.02	V
2101.51	-34.64	9.53	10.42	-35.53	-13.00	-22.53	V
2802.19	-31.93	11.27	11.12	-31.78	-13.00	-18.78	V
CAT-M Band 85 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.09	-34.70	8.17	9.34	-35.87	-13.00	-22.87	H
2121.14	-34.25	9.53	10.42	-35.14	-13.00	-22.14	H
2827.97	-33.23	11.27	11.12	-33.08	-13.00	-20.08	H
1414.09	-35.89	8.17	9.34	-37.06	-13.00	-24.06	V
2121.14	-33.85	9.53	10.42	-34.74	-13.00	-21.74	V
2827.97	-33.14	11.27	11.12	-32.99	-13.00	-19.99	V
CAT-M Band 85 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1426.96	-34.07	8.17	9.34	-35.24	-13.00	-22.24	H
2140.38	-34.61	9.53	10.42	-35.50	-13.00	-22.50	H
2854.18	-32.99	11.27	11.12	-32.84	-13.00	-19.84	H
1426.96	-35.79	8.17	9.34	-36.96	-13.00	-23.96	V
2140.38	-34.22	9.53	10.42	-35.11	-13.00	-22.11	V
2854.18	-33.13	11.27	11.12	-32.98	-13.00	-19.98	V



CAT-M Band 85 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1406.15	-34.36	8.17	9.34	-35.53	-13.00	-22.53	H
2108.82	-34.33	9.53	10.42	-35.22	-13.00	-22.22	H
2811.91	-32.63	11.27	11.12	-32.48	-13.00	-19.48	H
1406.15	-35.55	8.17	9.34	-36.72	-13.00	-23.72	V
2108.82	-34.49	9.53	10.42	-35.38	-13.00	-22.38	V
2811.91	-33.21	11.27	11.12	-33.06	-13.00	-20.06	V
CAT-M Band 85 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.03	-33.74	8.17	9.34	-34.91	-13.00	-21.91	H
2121.09	-34.75	9.53	10.42	-35.64	-13.00	-22.64	H
2827.94	-32.52	11.27	11.12	-32.37	-13.00	-19.37	H
1414.03	-34.85	8.17	9.34	-36.02	-13.00	-23.02	V
2121.09	-35.00	9.53	10.42	-35.89	-13.00	-22.89	V
2827.94	-32.63	11.27	11.12	-32.48	-13.00	-19.48	V
CAT-M Band 85 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1421.90	-33.92	8.17	9.34	-35.09	-13.00	-22.09	H
2133.14	-35.30	9.53	10.42	-36.19	-13.00	-23.19	H
2844.24	-33.08	11.27	11.12	-32.93	-13.00	-19.93	H
1421.90	-35.12	8.17	9.34	-36.29	-13.00	-23.29	V
2133.14	-34.19	9.53	10.42	-35.08	-13.00	-22.08	V
2844.24	-32.79	11.27	11.12	-32.64	-13.00	-19.64	V



5. RECEIVER SPURIOUS EMISSIONS

5.1 TEST LIMIT

Radiated emission measurements shall be performed with the receiver antenna connected to the receiver antenna ports. The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (e.g. local oscillator, intermediate or carrier frequency), or 30 MHz, whichever is higher, to at least five times the highest tunable or local oscillator frequency, whichever is higher, without exceeding 40 GHz.

Spurious emissions from receivers shall not exceed the radiated emissions limits shown in table 3.

Table 3 – Receiver radiated emissions limits

Frequency (MHz)	Field strength ($\mu\text{V}/\text{m}$ at 3 metres)Note 1
30-88	100
88-216	150
216-960	200
Above 960	500

Note 1: Measurements for compliance with the limits in table 3 may be performed at distances other than 3 metres, in accordance with section 6.6.

5.2 TEST PROCEDURE

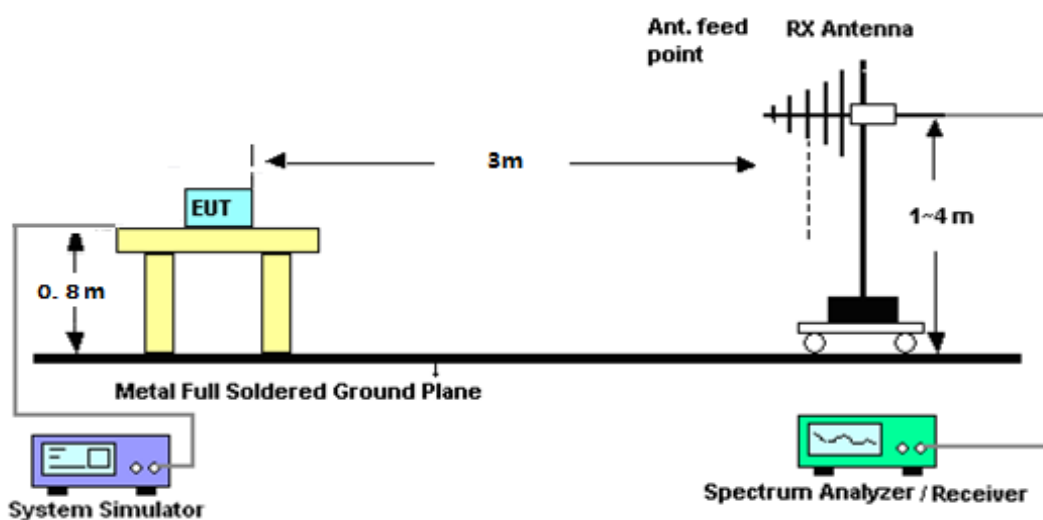
- The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- The EUT was placed on the top of a rotating table 0.8 meters (above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- The height of the equipment shall be 0.8 m (above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. horizontal and vertical polarizations of the antenna are set to make the measurement.
- The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then QuasiPeak detector mode re-measured.
- If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- For the actual test configuration, please refer to the related Item –EUT Test Photos.

Note:

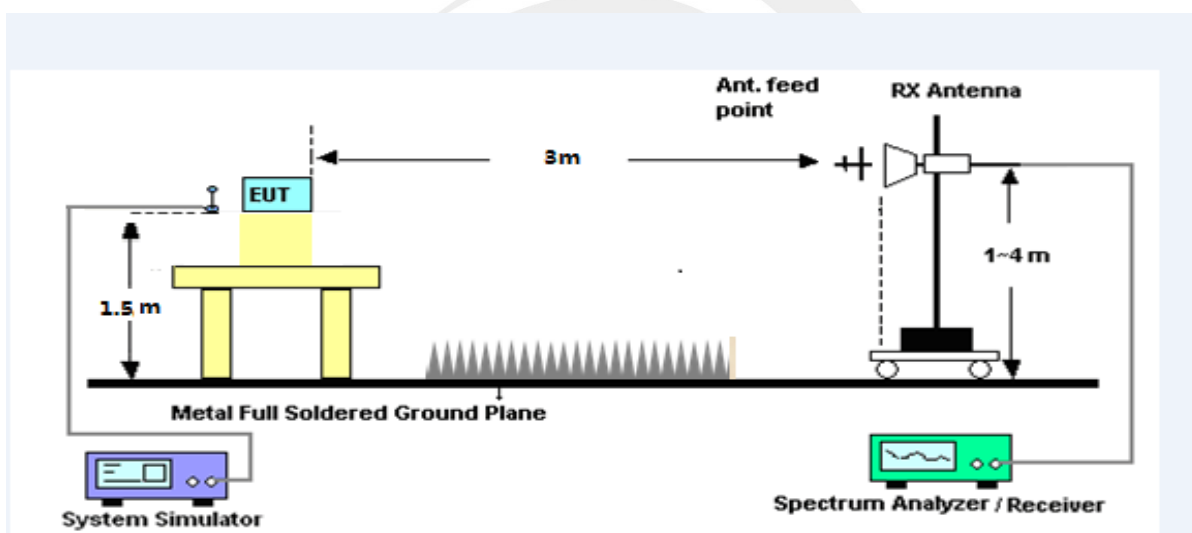
Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported

5.3 TEST SETUP

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz





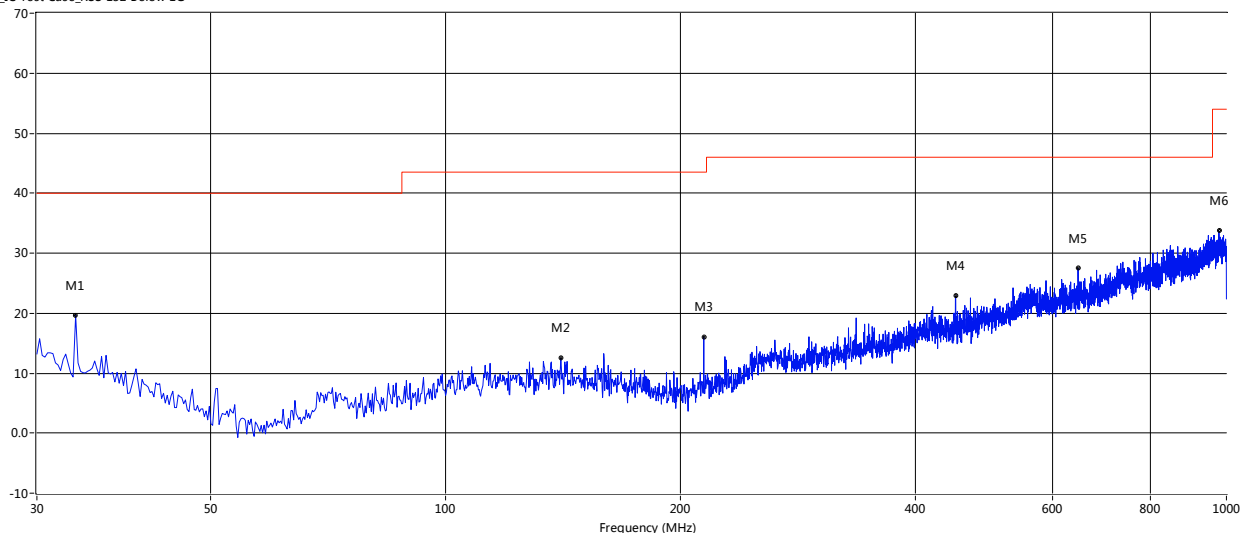
5.4 TEST RESULT

Note: All mode has been tested, only show the worst case in this report.

Band 5 (30MHz -1GHz):

Mid channel
Horizontal

RE_IC Test Case_RSS 132 Below 1G

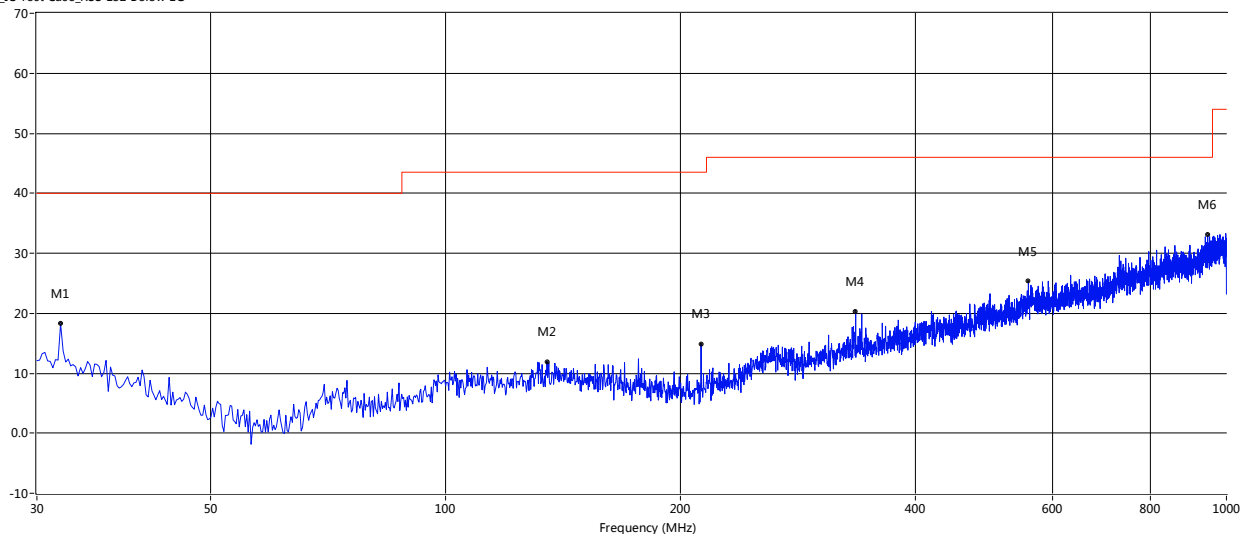


Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	ANT	Verdict
33.638	19.62	--	--	-13.78	--	40.0	--	-20.38	Horizontal	Pass
140.580	12.48	--	--	-16.61	--	43.5	--	-31.02	Horizontal	Pass
214.300	16.06	--	--	-18.49	--	43.5	--	-27.44	Horizontal	Pass
450.010	22.87	--	--	-7.31	--	46.0	--	-23.13	Horizontal	Pass
645.950	27.47	--	--	-2.18	--	46.0	--	-18.53	Horizontal	Pass
978.417	33.73	--	--	5.91	--	54.0	--	-20.27	Horizontal	Pass



Vertical

RE_IC Test Case_RSS 132 Below 1G



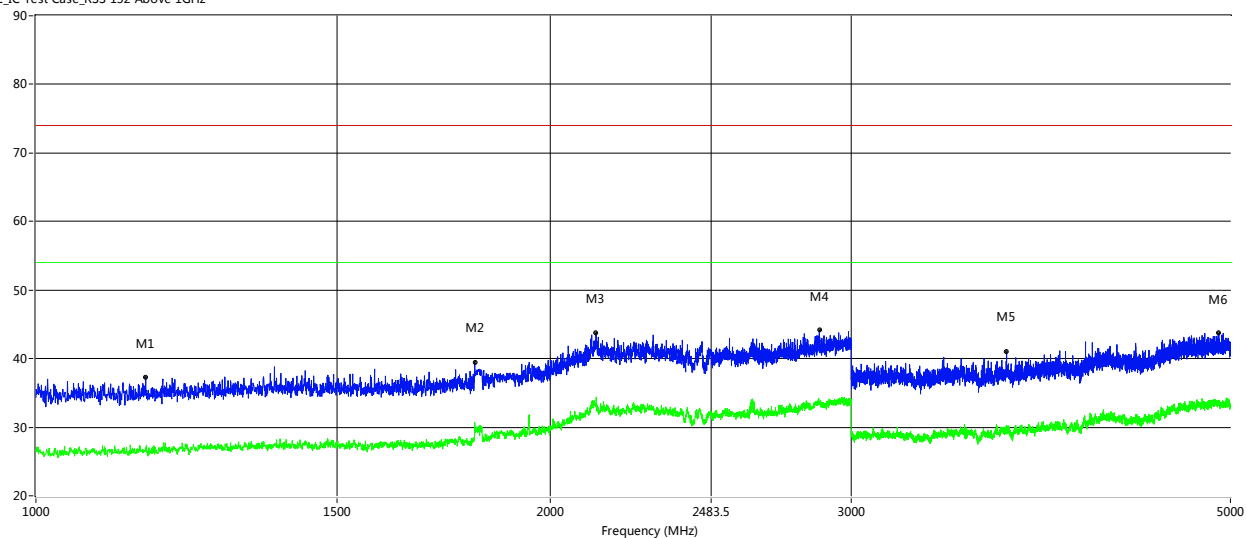
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	ANT	Verdict
31.940	12.17	--	--	-12.98	--	40.0	--	-27.83	Vertical	Pass
135.002	11.97	--	--	-16.68	--	43.5	--	-31.53	Vertical	Pass
212.602	14.92	--	--	-18.55	--	43.5	--	-28.58	Vertical	Pass
335.307	20.27	--	--	-11.38	--	46.0	--	-25.73	Vertical	Pass
557.922	25.34	--	--	-3.01	--	46.0	--	-20.66	Vertical	Pass
946.407	33.05	--	--	4.82	--	46.0	--	-12.95	Vertical	Pass



Band 5 (Above 1GHz):

Mid channel
Horizontal

RE_IC Test Case_RSS 132 Above 1GHz

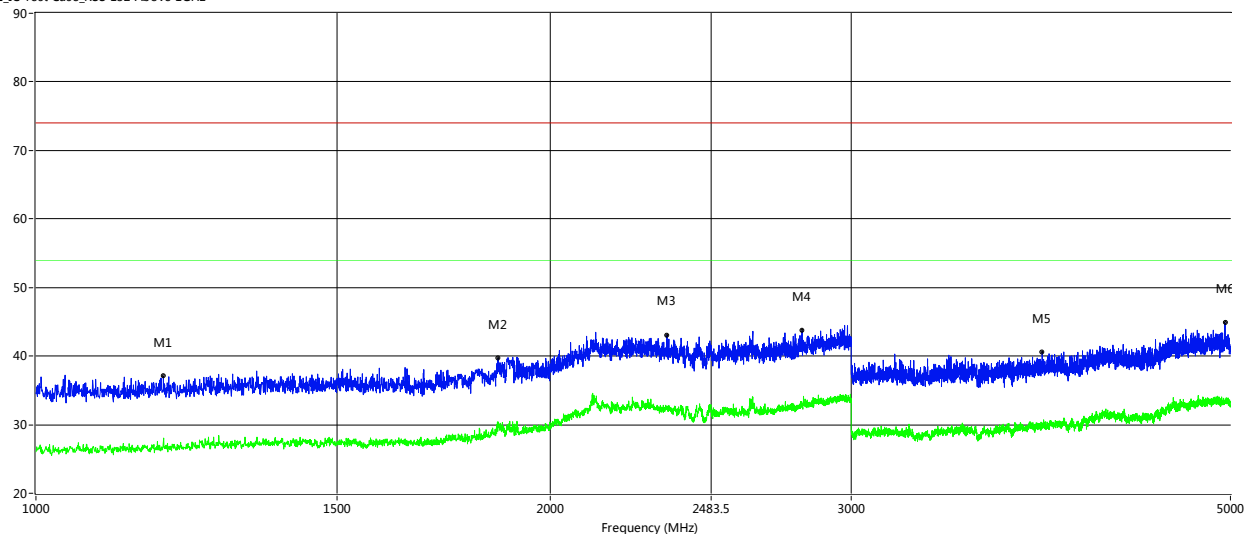


Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	ANT	Verdict
1159.500	37.23	--	26.49	-1.35	74.0	--	54.0	-27.51	Horizontal	Pass
1812.000	42.15	--	33.41	0.12	74.0	--	54.0	-20.59	Horizontal	Pass
2127.000	43.77	--	33.20	4.25	74.0	--	54.0	-20.80	Horizontal	Pass
2873.500	44.13	--	33.69	5.61	74.0	--	54.0	-20.31	Horizontal	Pass
3698.500	41.01	--	29.90	-11.29	74.0	--	54.0	-24.10	Horizontal	Pass
4922.500	43.70	--	33.29	-6.39	74.0	--	54.0	-20.71	Horizontal	Pass



Vertical

RE_IC Test Case_RSS 132 Above 1GHz



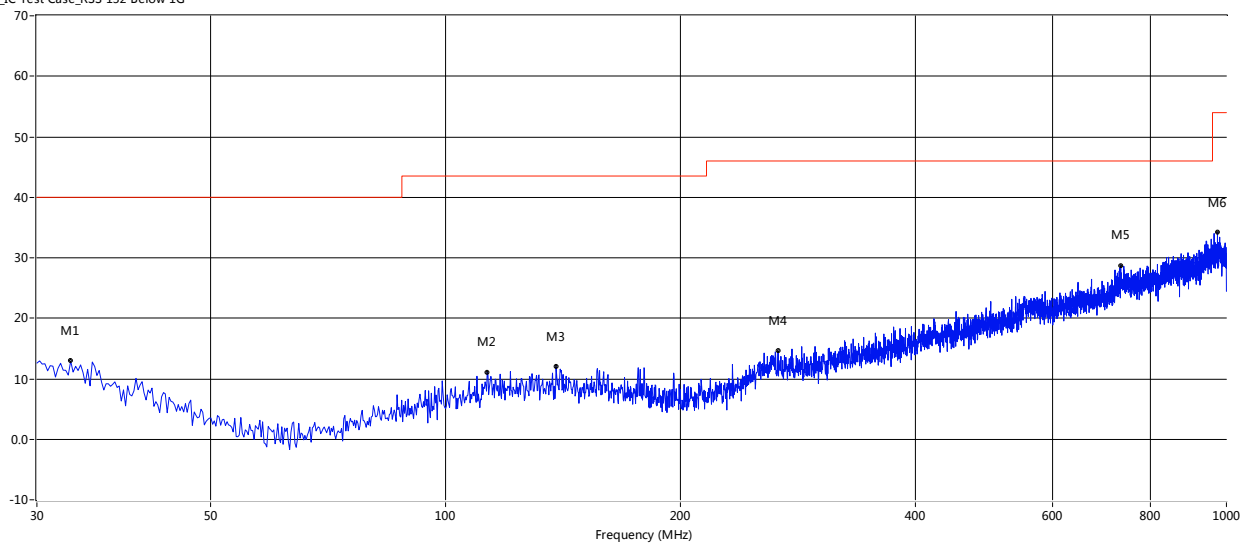
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	ANT	Verdict
1187.500	37.10	--	27.50	-1.25	74.0	--	54.0	-26.50	Vertical	Pass
1864.500	39.74	--	30.16	0.80	74.0	--	54.0	-23.84	Vertical	Pass
2340.500	43.09	--	32.64	4.42	74.0	--	54.0	-21.36	Vertical	Pass
2807.500	43.70	--	32.90	5.32	74.0	--	54.0	-21.10	Vertical	Pass
3880.500	40.63	--	30.03	-10.80	74.0	--	54.0	-23.97	Vertical	Pass
4964.000	44.85	--	33.56	-6.38	74.0	--	54.0	-20.44	Vertical	Pass



Band 26 (30MHz -1GHz):

Mid channel
Horizontal

RE_IC Test Case_RSS 132 Below 1G

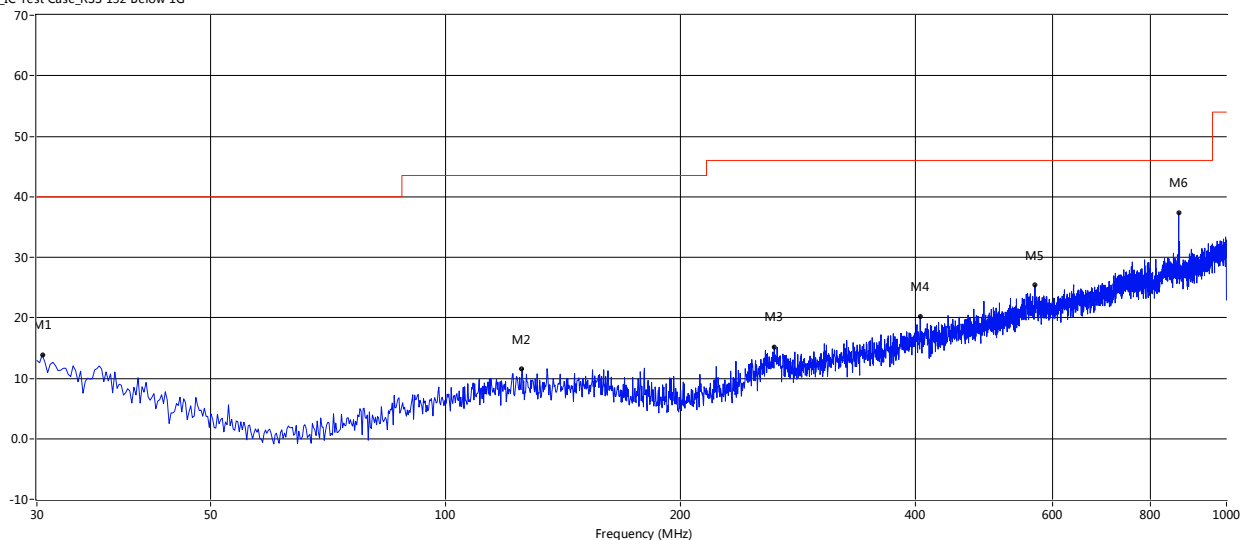


Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	ANT	Verdict
33.153	12.94	--	--	-13.55	--	40.0	--	-27.06	Horizontal	Pass
113.177	11.09	--	--	-17.43	--	43.5	--	-32.41	Horizontal	Pass
138.640	11.99	--	--	-16.61	--	43.5	--	-31.51	Horizontal	Pass
266.680	14.57	--	--	-12.97	--	46.0	--	-31.43	Horizontal	Pass
732.522	28.77	--	--	0.52	--	46.0	--	-17.23	Horizontal	Pass
974.052	34.21	--	--	5.62	--	54.0	--	-19.79	Horizontal	Pass



Vertical

RE_IC Test Case_RSS 132 Below 1G



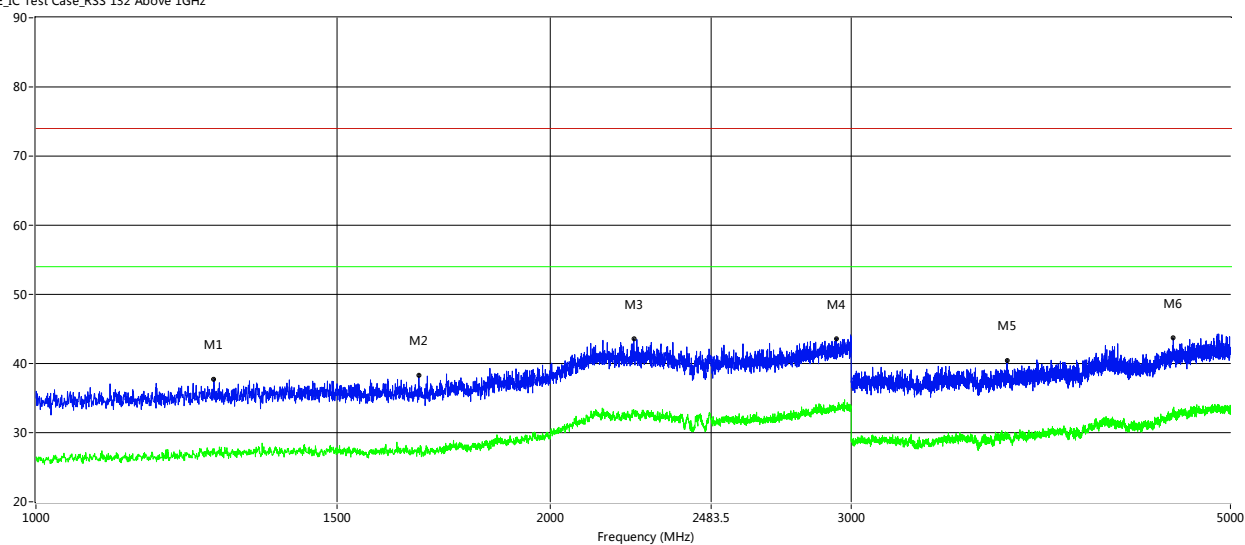
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	ANT	Verdict
30.485	13.89	--	--	-12.25	--	40.0	--	-26.11	Vertical	Pass
125.302	11.53	--	--	-16.82	--	43.5	--	-31.97	Vertical	Pass
263.770	15.13	--	--	-12.78	--	46.0	--	-30.87	Vertical	Pass
405.633	20.17	--	--	-8.48	--	46.0	--	-25.83	Vertical	Pass
568.835	25.36	--	--	-3.06	--	46.0	--	-20.64	Vertical	Pass
868.807	37.40	--	--	2.71	--	46.0	--	-8.60	Vertical	Pass



Band 26 (Above 1GHz):

Mid channel
Horizontal

RE_IC Test Case_RSS 132 Above 1GHz

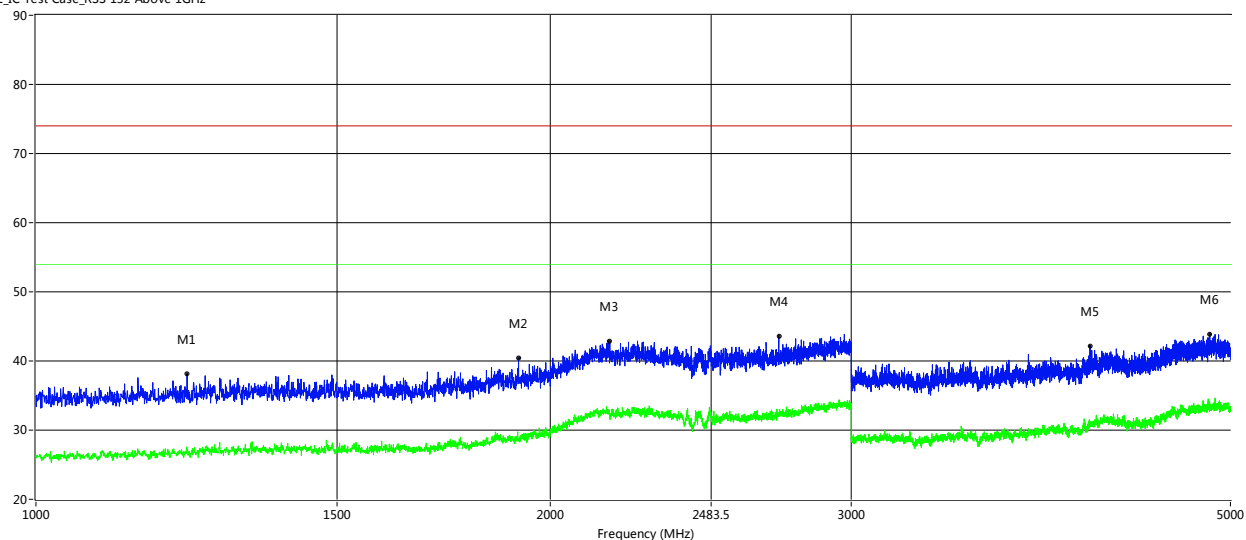


Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	ANT	Verdict
1271.000	37.67	--	27.09	-0.92	74.0	--	54.0	-26.91	Horizontal	Pass
1675.500	38.22	--	27.75	-0.50	74.0	--	54.0	-26.25	Horizontal	Pass
2238.000	43.59	--	33.35	4.51	74.0	--	54.0	-20.65	Horizontal	Pass
2940.000	43.59	--	33.48	5.84	74.0	--	54.0	-20.52	Horizontal	Pass
3702.000	40.39	--	29.48	-11.28	74.0	--	54.0	-24.52	Horizontal	Pass
4630.000	43.66	--	33.52	-7.54	74.0	--	54.0	-20.48	Horizontal	Pass



Vertical

RE_IC Test Case_RSS 132 Above 1GHz

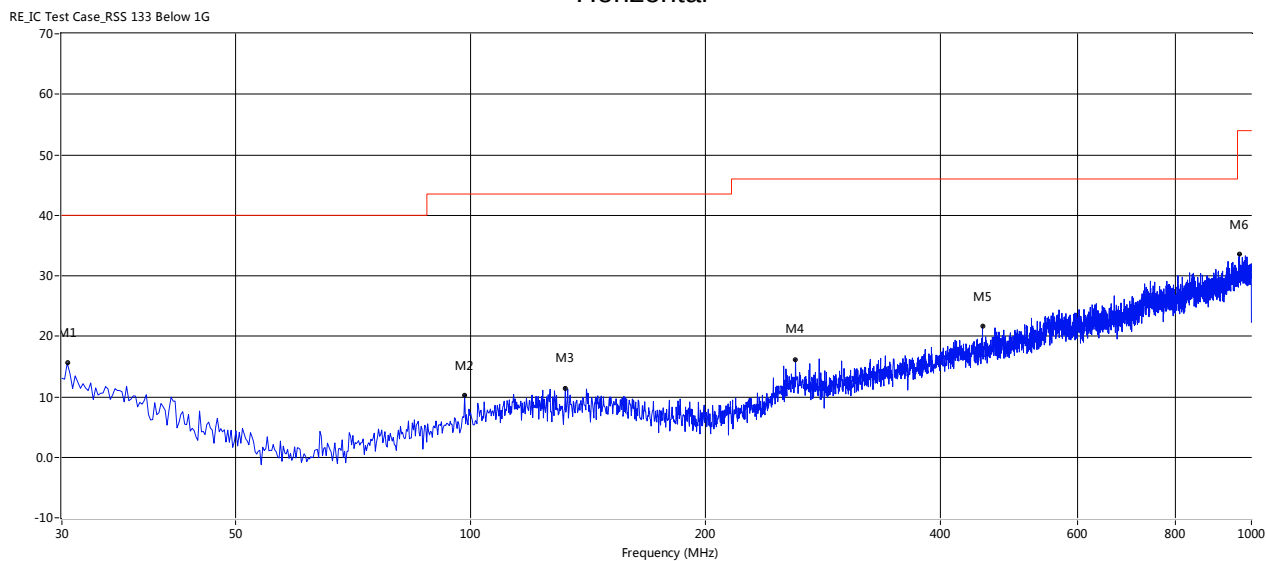


Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	ANT	Verdict
1226.000	38.17	--	27.28	-1.06	74.0	--	54.0	-26.72	Vertical	Pass
1916.000	40.46	--	28.57	0.90	74.0	--	54.0	-25.43	Vertical	Pass
2167.000	42.79	--	32.07	4.45	74.0	--	54.0	-21.93	Vertical	Pass
2721.000	43.56	--	32.02	4.68	74.0	--	54.0	-21.98	Vertical	Pass
4138.500	42.18	--	30.88	-9.57	74.0	--	54.0	-23.12	Vertical	Pass
4863.500	43.91	--	33.95	-6.61	74.0	--	54.0	-20.05	Vertical	Pass



Band 2 (30MHz -1GHz):

Mid channel
Horizontal

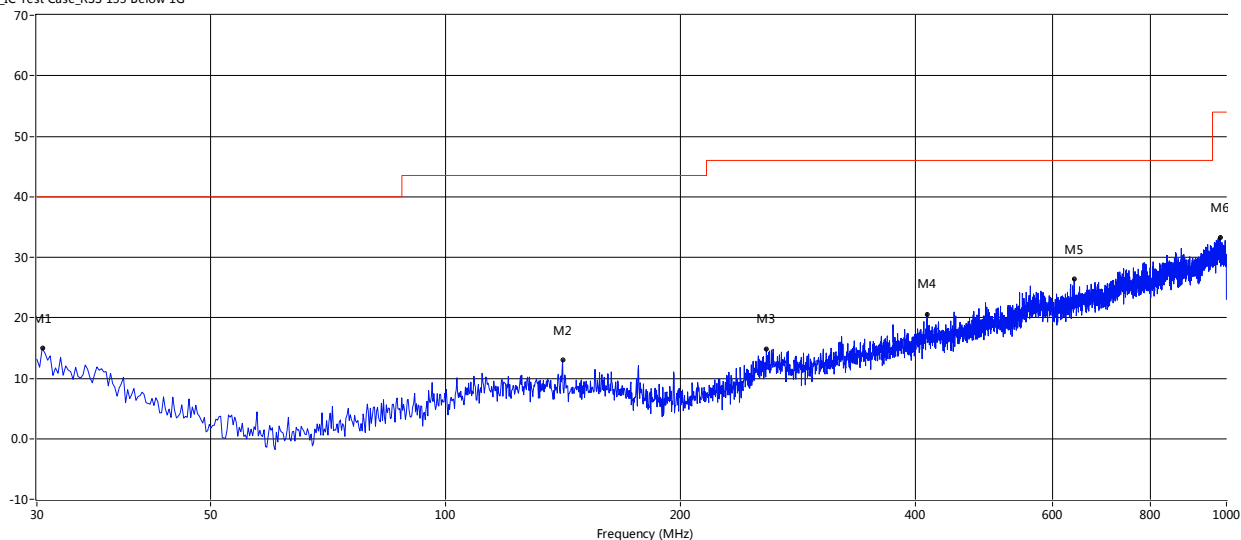


Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	ANT	Verdict
30.000	13.06	--	--	-12.01	--	40.0	--	-26.94	Horizontal	Pass
98.385	10.22	--	--	-19.21	--	43.5	--	-33.28	Horizontal	Pass
132.335	11.46	--	--	-16.77	--	43.5	--	-32.04	Horizontal	Pass
260.860	16.19	--	--	-12.80	--	46.0	--	-29.81	Horizontal	Pass
452.678	21.60	--	--	-7.26	--	46.0	--	-24.40	Horizontal	Pass
964.838	33.55	--	--	5.23	--	54.0	--	-20.45	Horizontal	Pass



Vertical

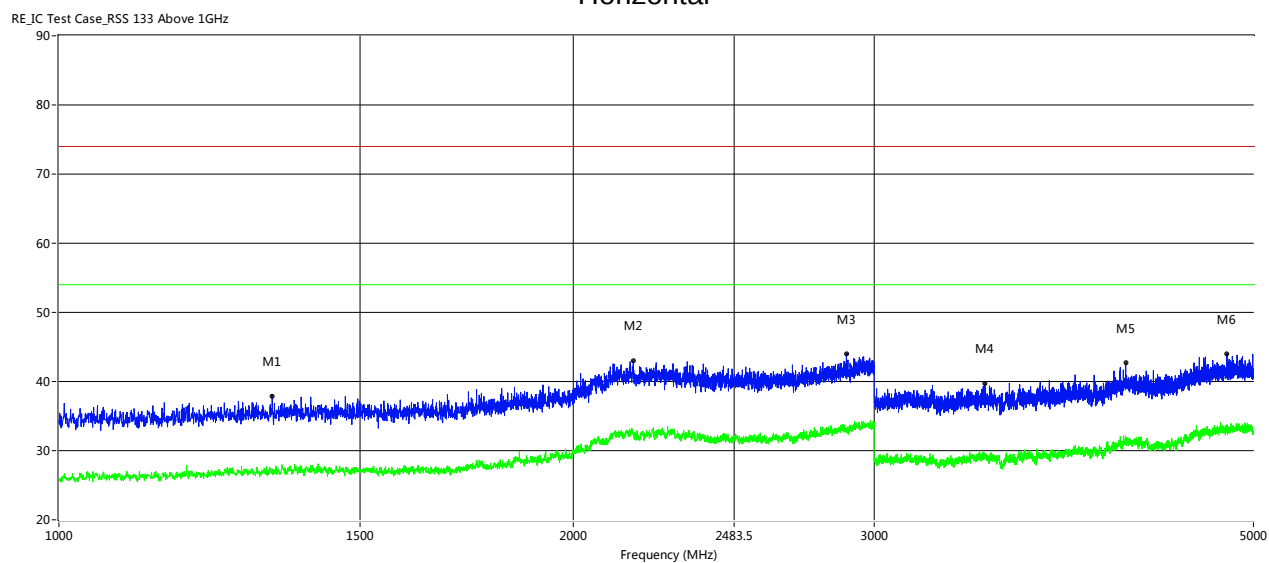
RE_IC Test Case_RSS 133 Below 1G



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	ANT	Verdict
30.000	13.15	--	--	-12.01	--	40.0	--	-26.85	Vertical	Pass
141.307	12.97	--	--	-16.66	--	43.5	--	-30.53	Vertical	Pass
257.707	14.88	--	--	-13.08	--	46.0	--	-31.12	Vertical	Pass
413.878	20.61	--	--	-8.03	--	46.0	--	-25.39	Vertical	Pass
638.433	26.37	--	--	-2.20	--	46.0	--	-19.63	Vertical	Pass
981.812	33.24	--	--	5.91	--	54.0	--	-20.76	Vertical	Pass



Band 2 (Above 1GHz):

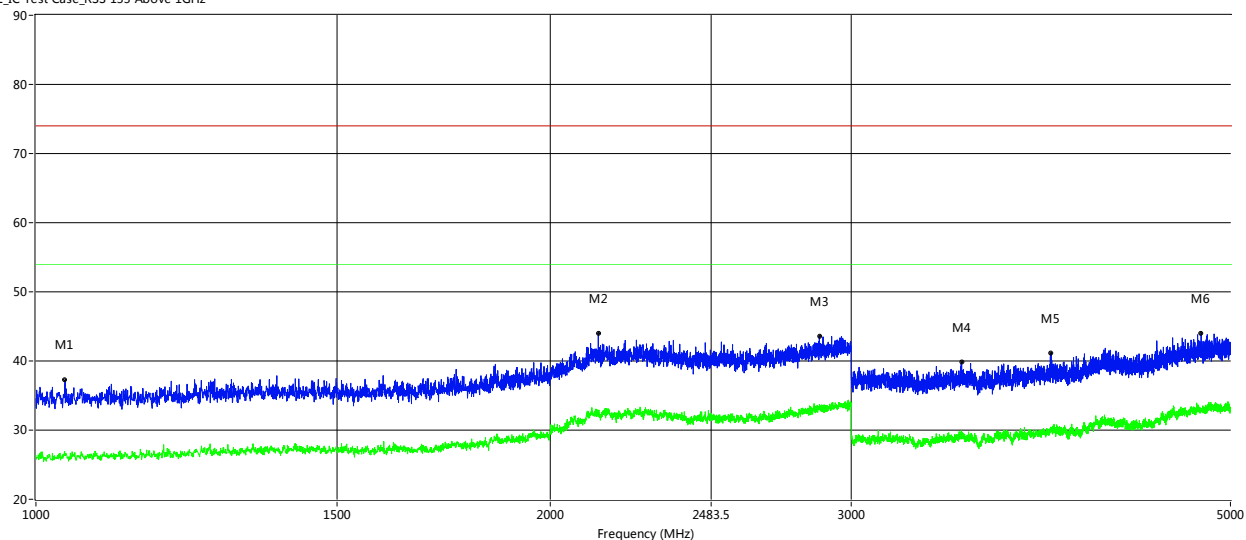
Mid channel
Horizontal

Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	ANT	Verdict
1333.000	37.82	--	27.13	-0.84	74.0	--	54.0	-26.87	Horizontal	Pass
2168.000	42.94	--	32.46	4.44	74.0	--	54.0	-21.54	Horizontal	Pass
2889.500	44.06	--	33.18	5.61	74.0	--	54.0	-20.82	Horizontal	Pass
3482.000	39.67	--	29.16	-11.46	74.0	--	54.0	-24.84	Horizontal	Pass
4210.000	42.66	--	31.14	-9.06	74.0	--	54.0	-22.86	Horizontal	Pass
4825.500	44.02	--	33.76	-6.83	74.0	--	54.0	-20.24	Horizontal	Pass



Vertical

RE_IC Test Case_RSS 133 Above 1GHz



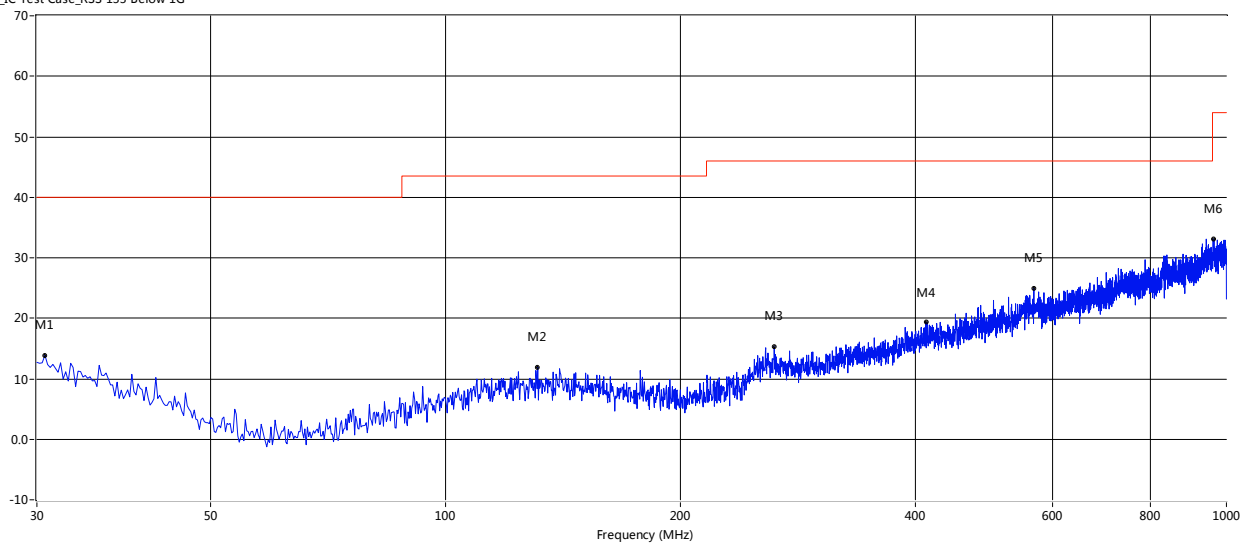
Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	ANT	Verdict
1038.000	35.18	--	26.18	-1.86	74.0	--	54.0	-27.82	Vertical	Pass
2133.500	44.02	--	32.39	4.36	74.0	--	54.0	-21.61	Vertical	Pass
2873.500	43.63	--	32.93	5.61	74.0	--	54.0	-21.07	Vertical	Pass
3481.000	39.79	--	29.28	-11.47	74.0	--	54.0	-24.72	Vertical	Pass
3926.500	41.19	--	30.46	-10.58	74.0	--	54.0	-23.54	Vertical	Pass
4807.000	44.04	--	32.97	-6.94	74.0	--	54.0	-21.03	Vertical	Pass



Band 25 (30MHz -1GHz):

Mid channel
Horizontal

RE_IC Test Case_RSS 133 Below 1G

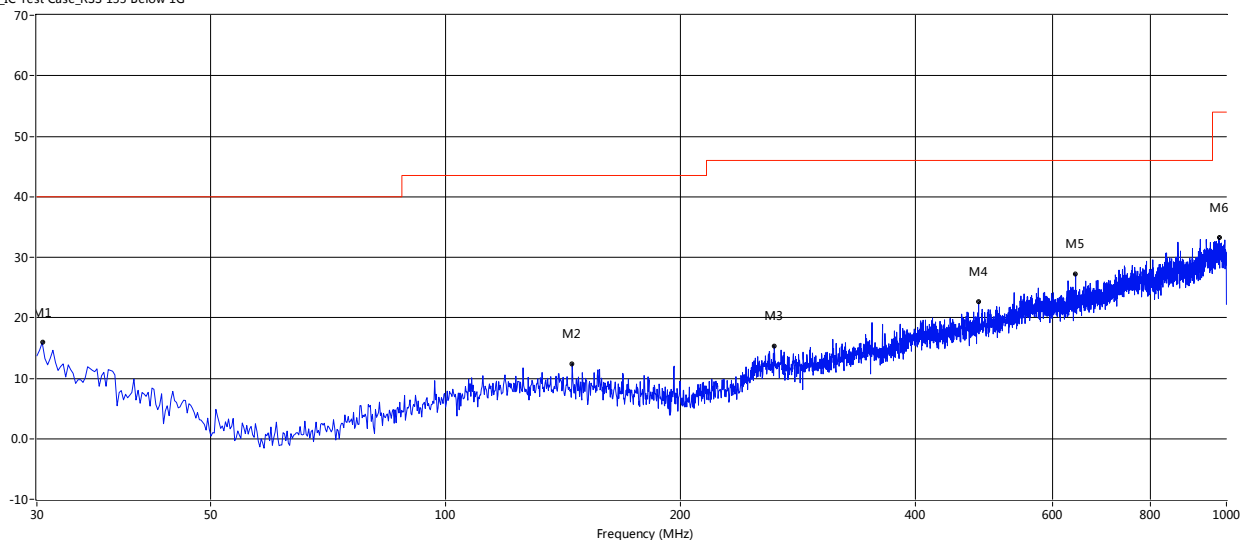


Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	ANT	Verdict
30.727	13.88	--	--	-12.37	--	40.0	--	-26.12	Horizontal	Pass
131.365	11.90	--	--	-16.81	--	43.5	--	-31.60	Horizontal	Pass
263.770	15.32	--	--	-12.78	--	46.0	--	-30.68	Horizontal	Pass
412.422	19.36	--	--	-8.10	--	46.0	--	-26.64	Horizontal	Pass
566.895	24.93	--	--	-3.03	--	46.0	--	-21.07	Horizontal	Pass
961.685	33.15	--	--	5.15	--	54.0	--	-20.85	Horizontal	Pass



Vertical

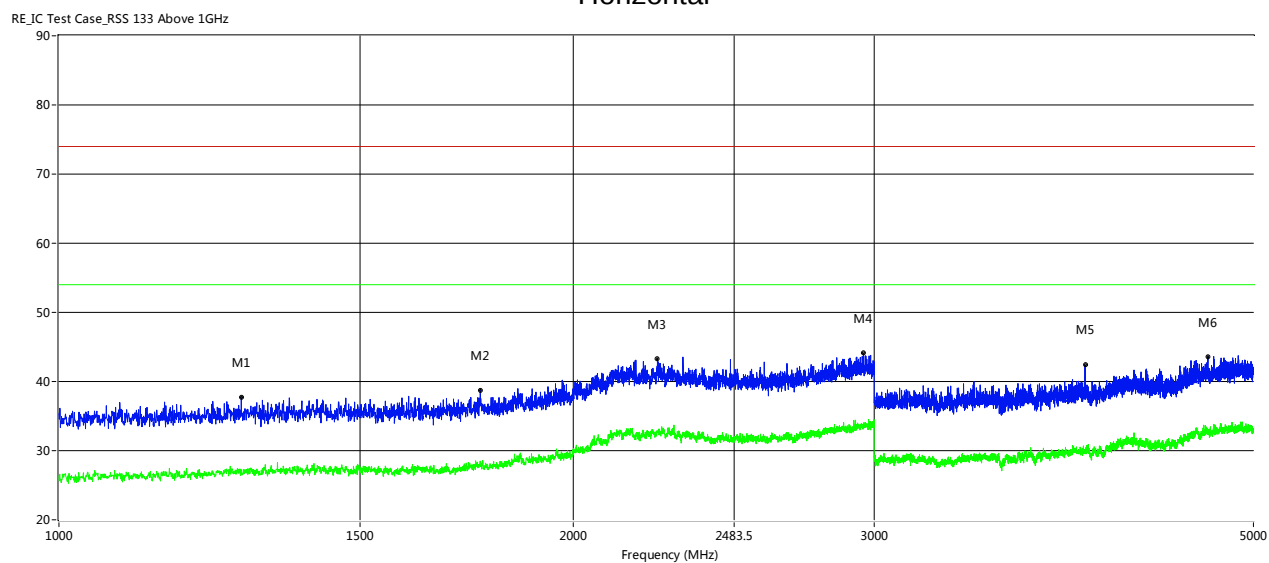
RE_IC Test Case_RSS 133 Below 1G



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	ANT	Verdict
30.000	13.68	--	--	-12.01	--	40.0	--	-26.32	Vertical	Pass
145.430	12.42	--	--	-16.89	--	43.5	--	-31.08	Vertical	Pass
263.770	15.29	--	--	-12.78	--	46.0	--	-30.71	Vertical	Pass
481.778	22.62	--	--	-6.23	--	46.0	--	-23.38	Vertical	Pass
641.343	27.24	--	--	-2.17	--	46.0	--	-18.76	Vertical	Pass
978.417	33.22	--	--	5.91	--	54.0	--	-20.78	Vertical	Pass



Band 25 (Above 1GHz):

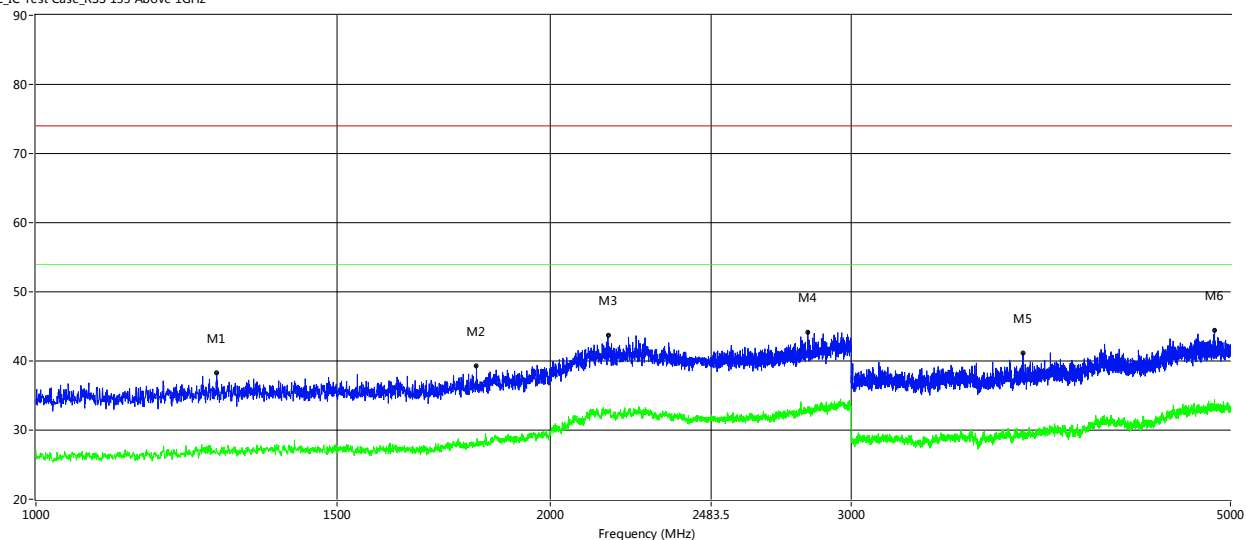
Mid channel
Horizontal

Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	ANT	Verdict
1278.500	37.77	--	27.01	-0.93	74.0	--	54.0	-26.99	Horizontal	Pass
1764.500	38.78	--	28.28	0.02	74.0	--	54.0	-25.72	Horizontal	Pass
2240.000	43.32	--	32.63	4.53	74.0	--	54.0	-21.37	Horizontal	Pass
2956.500	44.09	--	33.16	5.92	74.0	--	54.0	-20.84	Horizontal	Pass
3985.500	42.43	--	30.17	-10.25	74.0	--	54.0	-23.83	Horizontal	Pass
4703.000	43.64	--	33.12	-7.41	74.0	--	54.0	-20.88	Horizontal	Pass



Vertical

RE_IC Test Case_RSS 133 Above 1GHz



Frequency (MHz)	Peak Level (dBuV/m)	Q-peak Level (dBuV/m)	Average Level (dBuV/m)	Factor (dB)	PK Limit (dBuV/m)	QP Limit (dBuV/m)	AV Limit (dBuV/m)	Over Limit (dB)	ANT	Verdict
1276.000	38.28	--	27.01	-0.92	74.0	--	54.0	-26.99	Vertical	Pass
1810.500	39.35	--	28.18	0.09	74.0	--	54.0	-25.82	Vertical	Pass
2161.500	43.66	--	32.87	4.51	74.0	--	54.0	-21.13	Vertical	Pass
2829.500	44.21	--	33.24	5.47	74.0	--	54.0	-20.76	Vertical	Pass
3781.000	41.07	--	29.50	-11.14	74.0	--	54.0	-24.50	Vertical	Pass
4894.500	44.37	--	33.46	-6.42	74.0	--	54.0	-20.54	Vertical	Pass



APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※

