



FCC PART 15B, CLASS B TEST REPORT

For

Sky Phone LLC

1348 Washington Av. Suite 350, Miami Beach, Florida, United States

FCC ID: 2ABOSSKYPLATM5

Report Type: Product Type:

Original Report 3G Smart Phone

Report Number: RSZ171228008-00A

Report Date: 2018-02-02

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Note: This report must not be used by the customer to claim product certification, approval, or endorsement by NVLAP* or any agency of the Federal Government. * This report may contain data that are not covered by the NVLAP accreditation and are marked with an asterisk "*"

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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Sky Phone LLC's* product, model number: Platinum A5 (*FCC ID: 2ABOSSKYPLATM5*) or the "EUT" in this report was a *3G Smart Phone*, which was measured approximately:

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14.52 cm (L) \times 7.21 cm (W) \times 0.95 cm (H), rated with input voltage: DC 3.7 V battery or DC 5.0V from adapter. The highest operating frequency is 2480MHz.

Adapter Information: Model: D31-02051000

Input: AC 100-240V, 50/60Hz, 0.2A

Output: DC 5.0V, 1.0A

Notes: This series products model: Platinum M5 and Platinum A5 are electrically identical; the difference among them is only model number due to marketing purpose. Model Platinum A5 was selected for fully testing, the detailed information can be referred to the declaration letter which was stated and guaranteed by the applicant.

*All measurement and test data in this report was gathered from production sample serial number: 1702891 (Assigned by BACL, Shenzhen). The EUT supplied by the applicant was received on 2017-12-28.

Objective

This test report is prepared on behalf of *Sky Phone LLC* in accordance with Part 2-Subpart J, Part 15-Subparts A, B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine the compliance of the EUT with FCC Part 15 B.

Related Submittal(s)/Grant(s)

FCC Part 15.247 DSS, Part 15.247 DTS and Part 22H/24E/27 PCE submissions with FCC ID: 2ABOSSKYPLATM5

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

Parameter		uncertainty
Conducted Emissions		±1.95dB
Emissions,	Below 1GHz	±4.75dB
radiated	Above 1GHz	±4.88dB

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Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China.

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The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 382179, the FCC Designation No.: CN5001.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

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SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a manufacturer testing fashion.

EUT operation mode: Downloading (data transfer with computer)

EUT Exercise Software

"BurnIn test v5.3" exercise software was used.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
DELL	PC	VOSTRO 220S	127BP2X
DELL	Monitor	E178WFPC	CN-OWY564-64180-7C4-2SQH
DELL	Keyboard	L100	CNORH656658907BL05DC
DELL	Mouse	MOC5UO	G1900NKD
SAST	Modem	AEM-2100	0293
Kingston	Micro SD card	1 GB	N/A

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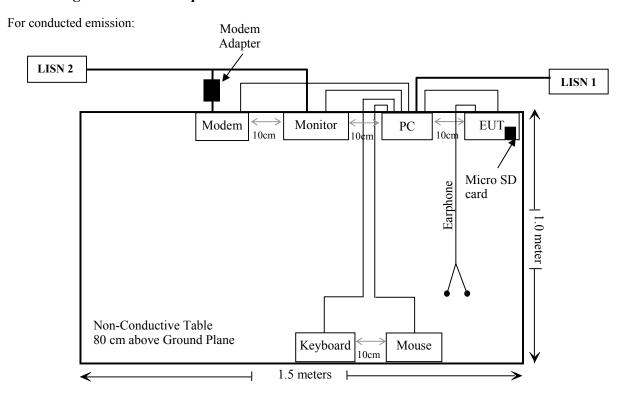
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External I/O Cable

Cable Description	Length (m)	From/Port	То
Un-Shielding Detachable USB Cable	1.5	Host PC	Mouse
Shielding Detachable Serial Cable	1.2	Host PC	Modem
Shielding Detachable K/B Cable With Magnet Ring	1.5	Host PC	Keyboard
Shielding Detachable VGA Cable	1.5	Host PC	LCD Monitor
Un-Shielding Detachable USB Cable	1.0	EUT	Host PC
Un-shielding Detachable Earphone Cable	1.23	EUT	Earphone

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Block Diagram of Test Setup



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SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Results
§15.107	AC Line Conducted Emissions	Compliance
§15.109	Radiated Spurious Emissions	Compliance

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TEST EQUIPMENT LIST

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
	AC Li	ne Conducted En	nission Test		
Rohde & Schwarz	EMI Test Receiver	ESCS30	100176	2017-08-04	2018-08-04
Rohde & Schwarz	LISN	ENV216	3560.6650.12- 101613-Yb	2017-12-07	2018-12-07
Rohde & Schwarz	Transient Limiter	ESH3Z2	DE25985	2017-11-19	2018-05-21
Rohde & Schwarz	CE Test software	EMC 32	V8.53.0	NCR	NCR
N/A	Conducted Emission Cable	N/A	UF A210B-1- 0720-504504	2017-11-12	2018-05-12
	F	Radiated Emission	n Test		
A.H.System	Horn Antenna	SAS-200/571	135	2015-08-18	2018-08-17
Rohde & Schwarz	Signal Analyzer	FSIQ26	8386001028	2017-04-24	2018-04-24
Sunol Sciences	Bi-log Antenna	JB1	A040904-2	2017-12-17	2020-12-16
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2017-05-21	2018-05-21
НР	Amplifier	HP8447E	1937A01046	2017-11-19	2018-05-21
Rohde & Schwarz	EMI Test Receiver	ESCI	101120	2017-12-07	2018-12-07
Rohde & Schwarz	Auto test Software	EMC32	V9.10	NCR	NCR
Ducommun technologies	RF Cable	UFA210A-1- 4724-30050U	MFR64369 223410-001	2017-12-07	2018-12-07
Ducommun technologies	RF Cable	104PEA	218124002	2017-11-19	2018-05-21
Ducommun technologies	RF Cable	RG-214	1	2017-11-19	2018-05-21
Ducommun technologies	RF Cable	RG-214	2	2017-11-22	2018-05-22

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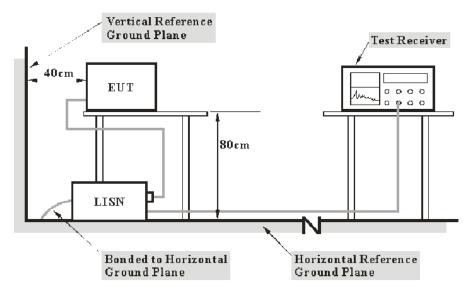
^{*} Statement of Traceability: Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.107 – AC LINE CONDUCTED EMISSIONS

Applicable Standard

According to FCC §15.107

EUT Setup



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Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with per ANSI C63.4-2014. The related limit was specified in FCC Part 15.107 Class B.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

Test Procedure

During the conducted emission test, the host PC was connected to the first LISN and the other relevant equipments were connected to the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

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Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

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Correction Factor = LISN VDF + Cable Loss + Transient Limiter Attenuation

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit - Corrected Amplitude

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.107,

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_{\rm m} + U_{(L{\rm m})} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL., $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

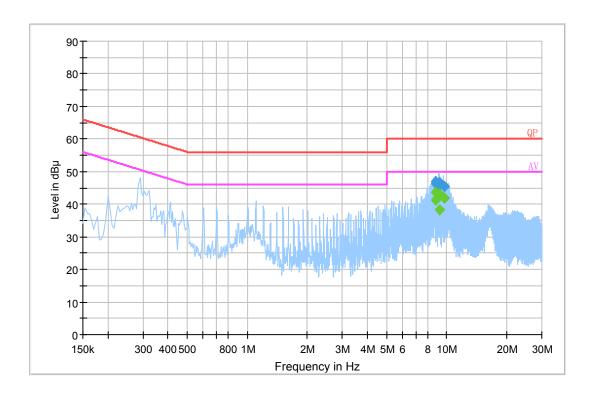
Temperature:	25 ℃
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Dylan Li on 2018-01-13.

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EUT Operation Mode: Downloading

AC 120V/60 Hz, Line

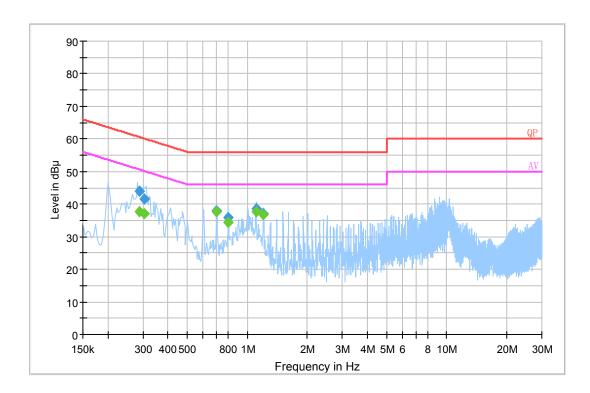


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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
8.849310	46.9	20.0	60.0	13.1	QP
8.851810	46.4	20.0	60.0	13.6	QP
9.154190	45.5	20.0	60.0	14.5	QP
9.248750	46.6	20.0	60.0	13.4	QP
9.255190	46.2	20.0	60.0	13.8	QP
9.753250	45.4	20.0	60.0	14.6	QP
8.849310	41.4	20.0	50.0	8.6	Ave.
8.851810	43.5	20.0	50.0	6.5	Ave.
9.154190	42.1	20.0	50.0	7.9	Ave.
9.248750	38.2	20.0	50.0	11.8	Ave.
9.255190	43.1	20.0	50.0	6.9	Ave.
9.753250	42.0	20.0	50.0	8.0	Ave.

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AC 120V/60 Hz, Neutral



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Frequency (MHz)	Corrected Amplitude (dBµV)	Correction Factor (dB)	Limit (dBµV)	Margin (dB)	Detector (PK/Ave./QP)
0.286500	44.1	20.2	60.6	16.5	QP
0.305350	41.6	20.2	60.1	18.5	QP
0.703410	37.8	20.0	56.0	18.2	QP
0.805910	35.8	20.0	56.0	20.2	QP
1.105410	38.6	20.1	56.0	17.4	QP
1.207910	37.2	20.1	56.0	18.8	QP
0.286500	37.8	20.2	50.6	12.8	Ave.
0.305350	37.1	20.2	50.1	13.0	Ave.
0.703410	37.8	20.0	46.0	8.2	Ave.
0.805910	34.3	20.0	46.0	11.7	Ave.
1.105410	37.8	20.1	46.0	8.2	Ave.
1.207910	36.7	20.1	46.0	9.3	Ave.

- 1) Correction Factor =LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor 3) Margin = Limit Corrected Amplitude

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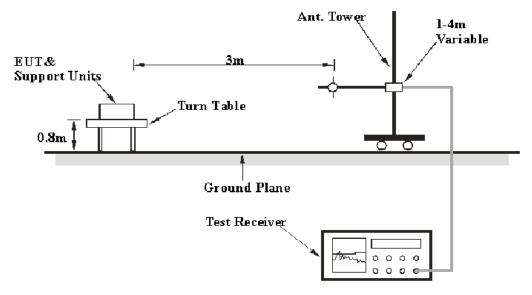
FCC §15.109 - RADIATED SPURIOUS EMISSIONS

Applicable Standard

FCC §15.109

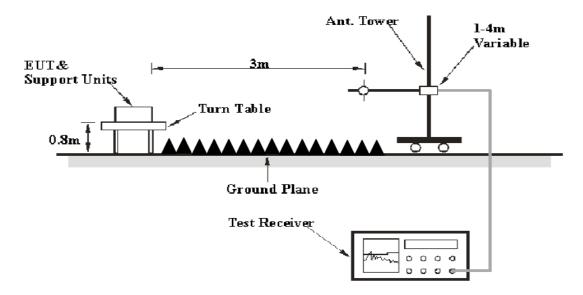
EUT Setup

Below 1GHz:



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Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 Class B limits.

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The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

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The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The system was investigated from 30 MHz to 13 GHz.

During the radiated emission test, the EMI test receiver was set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Measurement
30 MHz – 1000 MHz	100 kHz	300 kHz	120 kHz	QP
Above 1 GHz	1MHz	3 MHz	/	PK
Above I GHZ	1MHz	10 Hz	/	Ave.

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detector mode from 30 MHz to 1 GHz and PK and average detector modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

Corrected Amplitude = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

The "Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

Test Results Summary

According to the data in the following table, the EUT complied with the FCC §15.109 Class B,

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level is in compliance with the limit if

$$L_{\rm m} + U_{\rm (Lm)} \leq L_{\rm lim} + U_{\rm cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

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Test Data

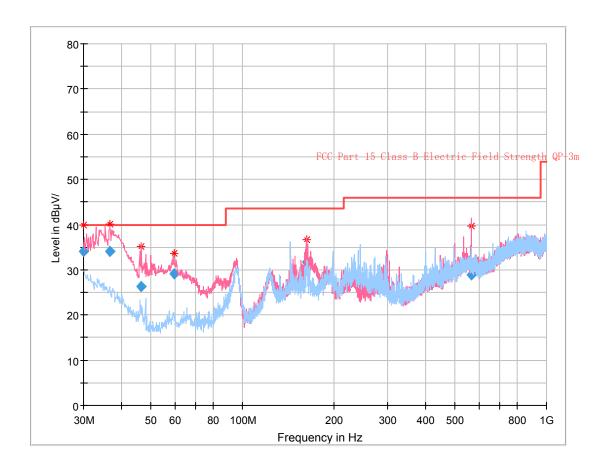
Environmental Conditions

Temperature:	25 ℃
Relative Humidity:	52 %
ATM Pressure:	101.0 kPa

The testing was performed by Dylan Li from 2018-01-09 to 2018-01-30

EUT Operation Mode: Downloading

30 MHz~1 GHz:



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Frequency (MHz)	Corrected Amplitude (dBµV/m)	Antenna height (cm)	Antenna Polarity	Turntable position (degree)	Correction Factor (dB/m)	Limit (dBµV/m)	Margin (dB)
30.040250	34.15	107.0	V	229.0	0.3	40.00	5.85
36.553500	34.03	104.0	V	203.0	-3.9	40.00	5.97
46.348375	26.27	105.0	V	166.0	-10.2	40.00	13.73
59.694750	29.17	101.0	V	208.0	-11.9	40.00	10.83
162.563750	31.61	104.0	V	111.0	-5.2	43.50	11.89
566.344125	28.90	157.0	V	78.0	4.4	46.00	17.10

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1 GHz - 13 GHz:

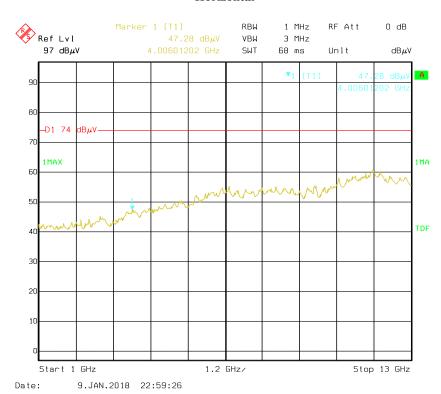
Frequency (MHz)	Receiver		Turntable	Rx Antenna			Corrected	FCC Part 15B	
	Reading (dBµV)		Degree	Height	Polar (H / V)	(dB/m)	Amplitude (dBuV/m)	Limit (dBuV/m)	Margin (dB)
4006.01	44.35	PK	292	2.2	Н	3.06	47.41	74	26.59
4006.01	30.54	Ave.	292	2.2	Н	3.06	33.60	54	20.40
4342.26	44.73	PK	88	1.6	V	3.30	48.03	74	25.97
4342.26	30.65	Ave.	88	1.6	V	3.30	33.95	54	20.05

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Note:

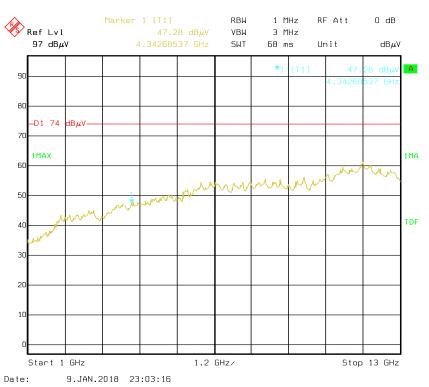
- 1) Correction Factor=Antenna factor (RX) + cable loss amplifier factor
- 2) Corrected Amplitude = Correction Factor + Reading
- 3) Margin = Limit Corrected Amplitude

Pre-scan Peak and worst case as below Horizontal

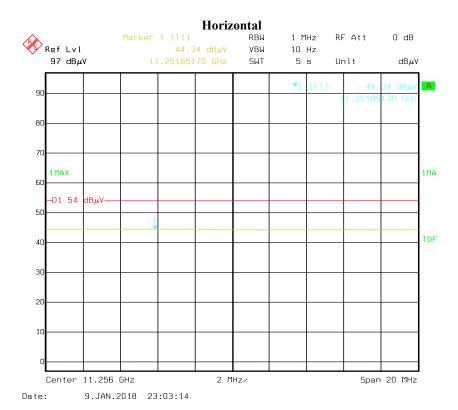


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Vertical



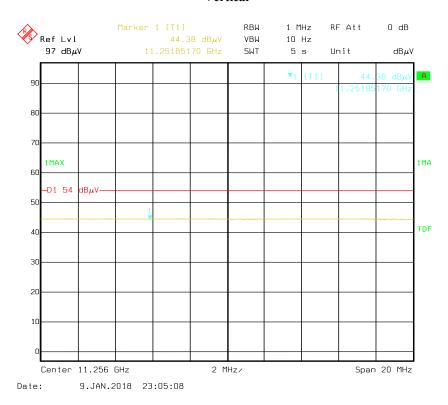
Pre-scan Average and worst case as below



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Vertical

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***** END OF REPORT *****

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