

## Test Report

<b>Product</b>	Hearing protection with two-way radio headset		
<b>Name and address of the applicant</b>	3M Svenska AB Malmstengsgatan 19 SE-33102 Värnamo, Sweden		
<b>Name and address of the manufacturer</b>	3M Svenska AB Malmstengsgatan 19 SE-33102 Värnamo, Sweden		
<b>Model</b>	ComTac VI		
<b>Rating</b>	Primary internal batteries, 3V DC (2 x 1.5V AAA/LR03 batteries)		
<b>Trademark</b>	3M™ PELTOR™ ComTac™ VI		
<b>Serial number</b>	/		
<b>Additional information</b>	Radio headset, 915.500MHz		
<b>Tested according to</b>	<b>FCC Part 15.249</b> Low Power Transmitter. 902 – 928MHz <b>Industry Canada RSS-210, Issue 9</b> Licence-Exempt Radio Apparatus, Category I Equipment		
<b>Order number</b>	350132		
<b>Tested in period</b>	2018-10-30 – 2018-12-07		
<b>Issue date</b>	2019-03-28		
<b>Name and address of the testing laboratory</b>	 Instituttveien 6 Kjeller, Norway	CAB number: FCC: NO0001 ISED: NO0470	 
An accredited technical test executed under the Norwegian accreditation scheme			
 Prepared by [G.Suhanthakumar]		 Approved by [Frode Sveinsen]	
This report shall not be reproduced except in full without the written approval of Nemko. Opinions and interpretations expressed within this report are not part of the current accreditation. This report was originally distributed electronically with digital signatures. For more information contact Nemko.			

## CONTENTS

<b>1</b>	<b>INFORMATION .....</b>	<b>3</b>
1.1	Test Item .....	3
1.2	Normal test condition .....	4
1.3	Test Engineer(s) .....	4
1.4	Description of modification for Modification Filing .....	4
1.5	Family List Rational .....	4
1.6	Antenna Requirement .....	4
1.7	Worst-Case Configuration and Mode .....	4
1.8	Comments .....	4
<b>2</b>	<b>TEST REPORT SUMMARY .....</b>	<b>5</b>
2.1	General .....	5
2.2	Test Summary .....	6
<b>3</b>	<b>TEST RESULTS.....</b>	<b>7</b>
3.1	99% Occupied Bandwidth.....	7
3.2	Peak Power Output.....	9
3.3	Restricted Bands of operation.....	14
3.4	Spurious Emissions (Radiated).....	15
<b>4</b>	<b>Measurement Uncertainty .....</b>	<b>35</b>
<b>5</b>	<b>LIST OF TEST EQUIPMENT.....</b>	<b>36</b>
<b>6</b>	<b>BLOCK DIAGRAM .....</b>	<b>37</b>
6.1	Power Line Conducted Emission .....	37
6.2	Test Site Radiated Emission.....	37

# 1 INFORMATION

## 1.1 Test Item

<b>Name</b>	3M Peltor
<b>FCC ID</b>	Y9ZMT20H682
<b>Industry Canada ID</b>	4406A- MT20H682
<b>Model/version</b>	ComTac VI
<b>Serial number</b>	/
<b>Hardware identity and/or version</b>	K401AVB
<b>Software identity and/or version</b>	1.0.6
<b>Frequency Range</b>	915.5MHz
<b>Tunable Bands</b>	None
<b>Number of Channels</b>	1
<b>Operating Modes</b>	Transceiver
<b>Type of Modulation</b>	4GFSK
<b>User Frequency Adjustment</b>	None
<b>Rated Output Power</b>	0.2 mW
<b>Type of Power Supply</b>	Primary internal batteries, 2 x 1.5V AAA/LR03 batteries
<b>Antenna Connector</b>	None, PCB antenna
<b>Antenna Diversity Supported</b>	No
<b>Desktop Charger</b>	No

### Description of Test Item

Hearing protector with ISM full duplex radio link and MI receiver. This test report covers only 915.5MHz communication.

### Theory of Operation

The EUT is a headset/handsfree which ISM full duplex radio, Magnetic induction (MI) receiver and a cable to be connected to other devices. It provides a function to listen to surrounding sound and is not only a closed audio headset. The headset is a hearing protection with level-dependent function for ambient listening.

## 1.2 Normal test condition

Temperature:	20 - 24 °C
Relative humidity:	20 - 50 %
Normal test voltage:	3.0 V DC

The values are the limit registered during the test period.

## 1.3 Test Engineer(s)

G. Suhanthakumar

## 1.4 Description of modification for Modification Filing

Not applicable.

## 1.5 Family List Rational

Not Applicable.

## 1.6 Antenna Requirement

Is the antenna detachable?

Yes  No

If detachable, is the antenna connector non-standard?

Yes  No

Type of antenna connector: N/A

Ref. FCC §15.203

## 1.7 Worst-Case Configuration and Mode

Radiated Emissions was performed with the EUT set to transmit at the channel with the highest output power as worst-case scenario.

## 1.8 Comments

All measurements were done with the EUT powered by a fully charged battery.

All ports were populated during spurious emission measurements, i.e. with host device.

## 2 TEST REPORT SUMMARY

### 2.1 General

All measurements are traceable to national standards.

The tests were conducted for demonstrating compliance with FCC CFR 47 Part 15, clause 15.249 and ISED Canada RSS-210 Issue 9.

Tests were performed in accordance with ANSI C63.4-2014 and ANSI C63.10-2013.

Radiated tests were made in a semi-anechoic chamber at measuring distances of 1m, 3m and 10m.

A description of the test facility is on file with the FCC and Industry Canada.

New Submission

Production Unit

Class II Permissive Change

Pre-production Unit

**DXT** Equipment Code

Family Listing



#### **THIS TEST REPORT APPLIES ONLY TO THE ITEM(S) AND CONFIGURATIONS TESTED.**

Deviations from, additions to, or exclusions from the test specifications are described in "Summary of Test Data".

Nemko Group authorizes the above named company to reproduce this report provided it is reproduced in its entirety and for use by the company's employees only. Any reproduction of parts of this report requires approval in writing from Nemko Group.

Any use that a third party makes of this report, or any reliance on or decisions to be made based on it, are the responsibility of such third parties. Nemko Group accepts no responsibility for damages suffered by any third party as a result of decisions made or actions based on this report.

## 2.2 Test Summary

Name of test	FCC Part 15 reference	RSS-210 Issue 9, RSS-GEN Issue 5 reference	Result
Supply Voltage Variations	15.31(e)	F.2.2 (RSS-210) 6.11, 8.11 (RSS-Gen)	N/A <sup>1</sup>
Antenna Requirement	15.203	6.7 (RSS-GEN)	Complies <sup>2</sup>
Power Line Conducted Emission	15.107(a) 15.207(a)	8.8 (RSS-GEN)	N/A <sup>1</sup>
99% Occupied Bandwidth	N/A	6.6 (RSS-GEN)	-
Peak Power Output	15.249(a),(c),(e)	B.10 (RSS-210)	Complies
Band edge emissions	15.249(d)	B.10 (RSS-210)	Complies
Spurious Emissions (Radiated)	15.249(d), 15.209 15.35 (b)	5.5 (RSS-247) 6.13 (RSS-GEN) 8.9 (RSS-GEN)	Complies

<sup>1</sup> EUT is battery powered

<sup>2</sup> The EUT has only integrated antenna.

RSS-Gen Issue 5 covers section 6 & 8

RSS-210 issue 9 covers Annex B

## Revision history

Version	Date	Comment	Sign
00	2018-12-07	First edition	gns
01	2019-03-28	Model number corrected	FS

### 3 TEST RESULTS

#### 3.1 99% Occupied Bandwidth

Para. No.: 6.6 RSS-Gen Issue 5

Test Results: -

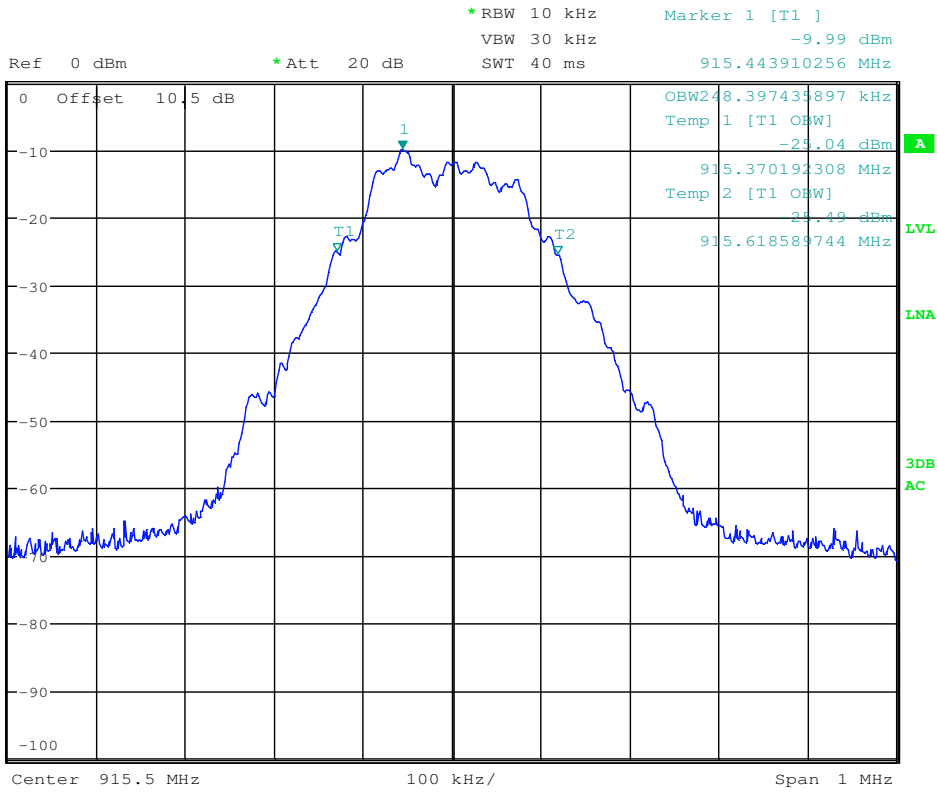
Measurement Data:

Measured 99% Bandwidth (kHz)		
-	915.500 MHz	-
-	248.4	-

See attached plots.

**Requirements:**

No requirement for 99% BW, reported for information only.



Date: 13.NOV.2018 10:03:41

**99% Bandwidth**



### 3.2 Peak Power Output

FCC part 15.249 (a),(c),(e)

**Test Results: Complies**

**Measurement Data:**

**PK detector**

	<b>915.5 MHz</b>
<b>Conducted Power (dBm)</b>	-6.96
<b>Conducted Power (mW)</b>	0.20
<b>Field Strength (dBμV/m)</b>	93.69
<b>ERP, Calculated (mW)</b>	0.43
<b>Antenna gain (dBd)</b>	3.3

Measured with 100%.

Antenna gain =  $10 \cdot \log(\text{ERP}/\text{Conducted power})$  dBd

ERP is calculated from measured field strength by the formulas in KDB 412172 D01 Determining ERP and EIRP v01r01.

**See attached plots.**

**Requirements:**

(e) As shown in §15.35(b), for frequencies above 1000 MHz, the field strength limits in paragraphs (a)

The maximum average output power shall be  $\leq 94$  dBμV/m

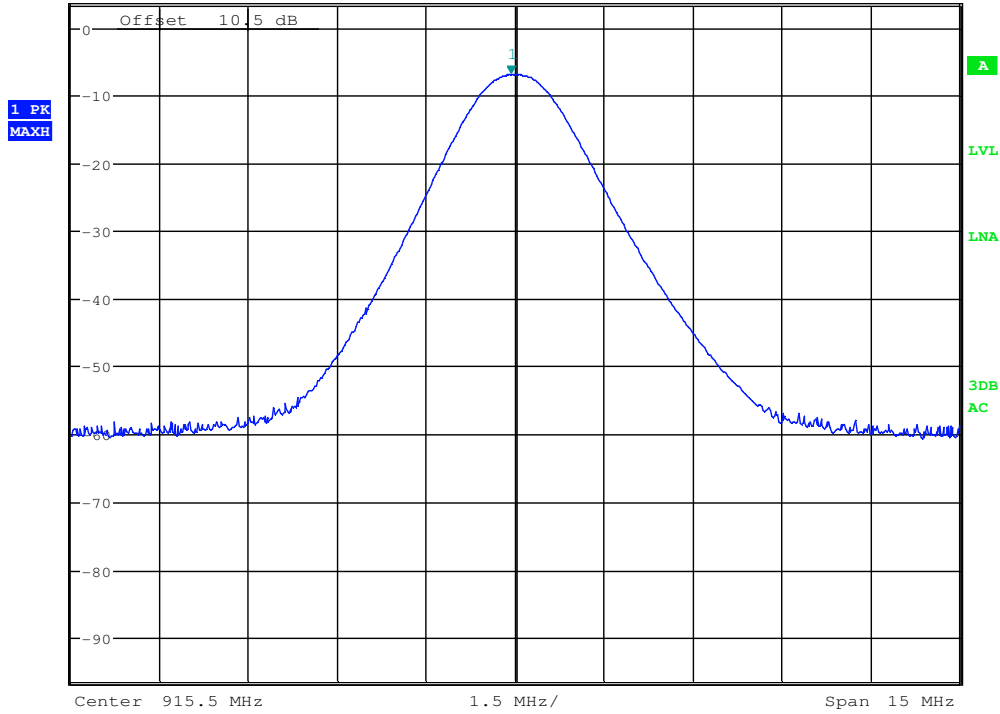
and (b) of this section are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



**MARKER 1**  
 915.4278846 MHz  
 Ref 3.5 dBm \* Att 25 dB

\* RBW 1 MHz  
 VBW 3 MHz  
 SWT 2.5 ms

Marker 1 [T1 ]  
 -6.96 dBm  
 915.427884615 MHz



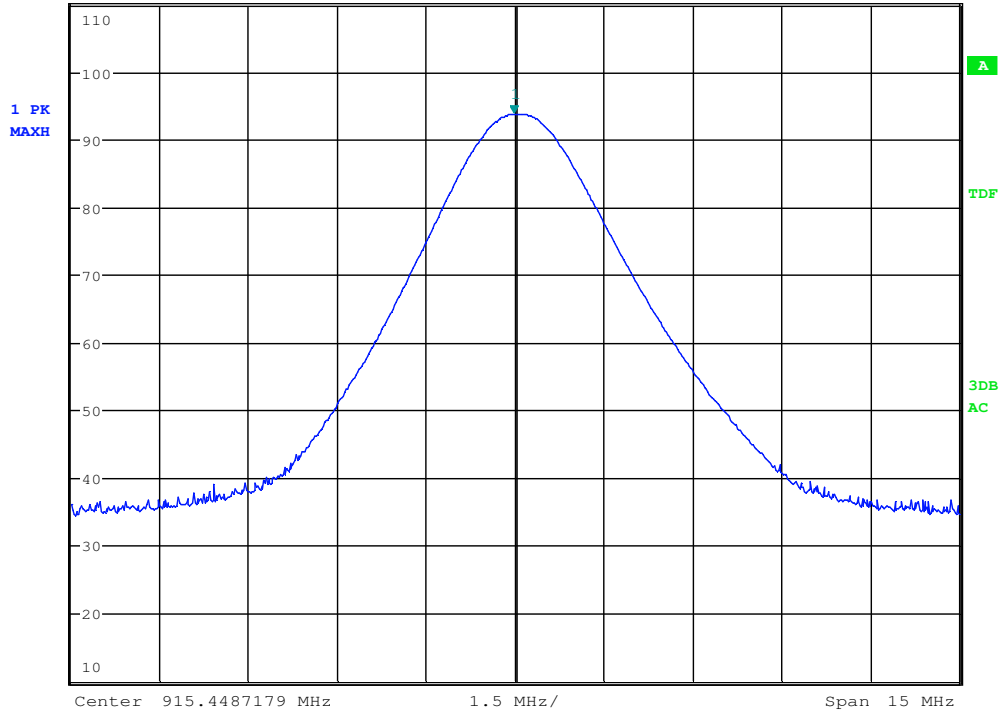
Date: 13.NOV.2018 09:59:30

Conducted power, 915.5MHz



**MARKER 1**  
 915.4246795 MHz  
 Ref 110 dBµV/m \* Att 15 dB

\* RBW 1 MHz Marker 1 [T1 ]  
 VBW 3 MHz 93.69 dBµV/m  
 SWT 2.5 ms 915.424679487 MHz



Date: 13.NOV.2018 07:25:46

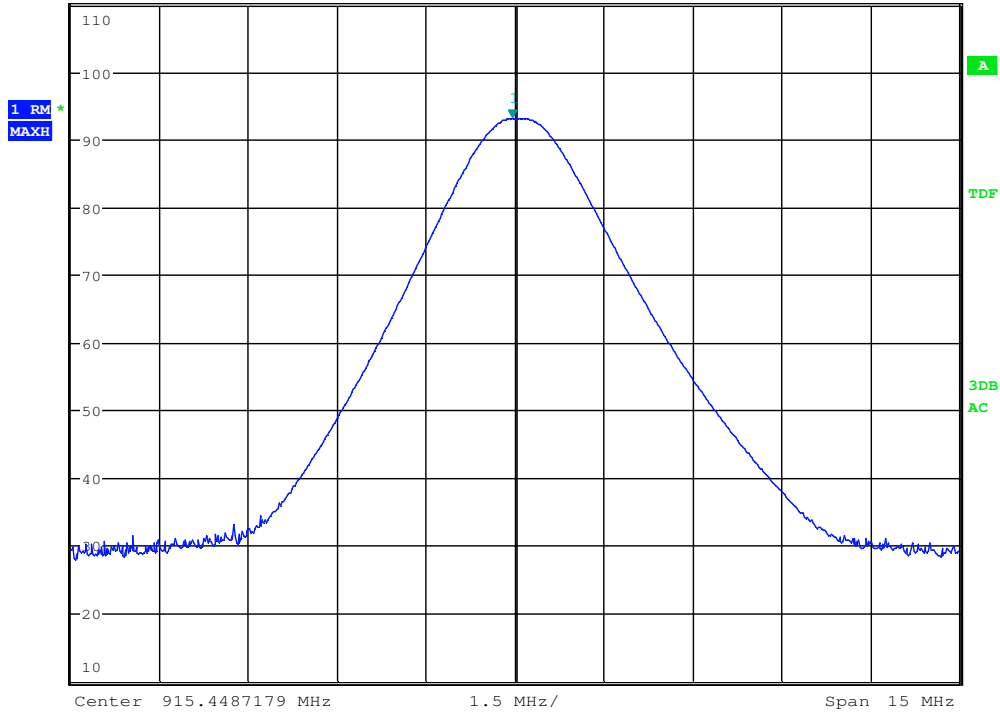
Field strength @ Horizontal Polarization-915.5MHz- PK



**MARKER 1**  
 915.400641 MHz  
 Ref 110 dBµV/m \*Att 15 dB

\*REW 1 MHz  
 VBW 10 MHz  
 SWT 2.5 ms

Marker 1 [T1 ]  
 93.18 dBµV/m  
 915.400641026 MHz



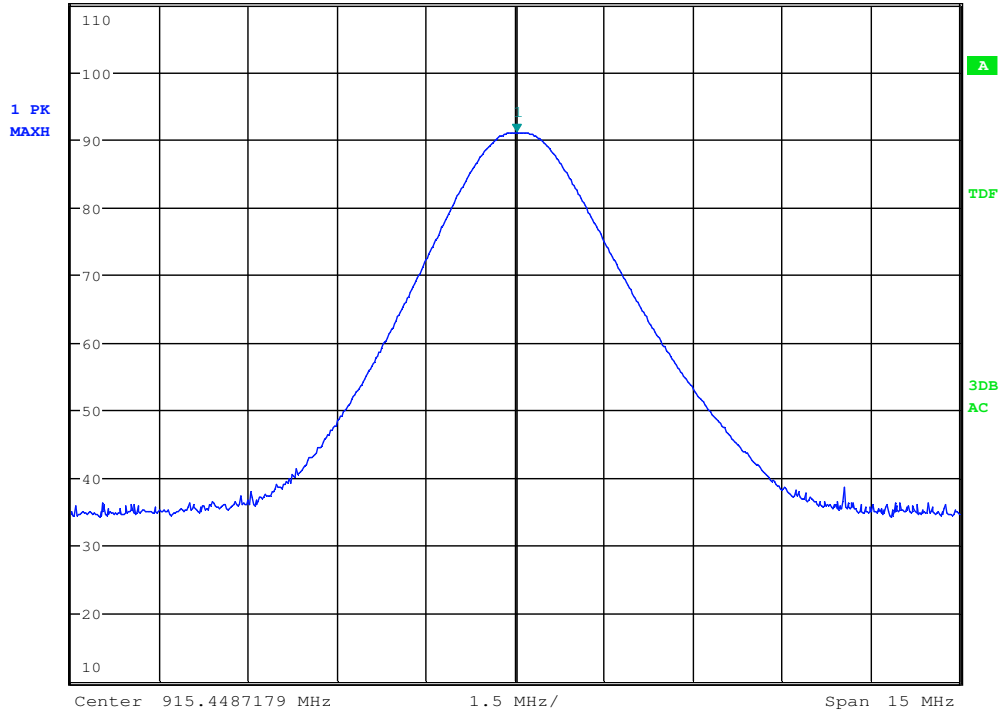
Date: 13.NOV.2018 07:27:20

Field strength @ Horizontal Polarization-915.5MHz-rms



**MARKER 1**  
 915.4727564 MHz  
 Ref 110 dBµV/m \* Att 15 dB

\* RBW 1 MHz Marker 1 [T1 ]  
 VBW 3 MHz 91.04 dBµV/m  
 SWT 2.5 ms 915.472756410 MHz



Date: 13.NOV.2018 07:31:13

Field strength @ Vertical Polarization-915.5MHz

### 3.3 Restricted Bands of operation

Restricted Bands of operation for FCC and ISED are defined in FCC Part 15.205 and ISED RSS-GEN, Issue 5 clause 8.10.

Generally, no fundamentals are allowed in the restricted bands and all emissions must comply with the limits in FCC 15.209 or RSS-GEN, Issue 5, clause 8.9.

FCC (MHz)	ISED (MHz)	FCC (GHz)	ISED (GHz)
0.090-0.110		<b>0.96-1.24</b> <b>1.3-1.427</b>	<b>0.96-1.427</b>
0.495-0.505		1.435-1.6265	
2.1735-2.1905		1.6455-1.6465	
	<b>3.020-3.026</b>	1.660-1.710	
4.125-4.128		1.7188-1.7222	
4.17725-4.17775		2.2-2.3	
4.20725-4.20775		2.31-2.39	
	<b>5.677-5.683</b>	2.4835-2.5	
6.215-6.218		<b>2.69-2.9</b>	<b>2.655-2.9</b>
6.26775-6.26825		3.26-3.267	
6.31175-6.31225		3.332-3.339	
8.291-8.294		3.3458-3.358	
8.362-8.366		<b>3.6-4.4</b>	<b>3.5-4.4</b>
8.37625-8.38675		4.5-5.15	
8.41425-8.41475		5.35-5.46	
12.29-12.293		7.25-7.75	
12.51975-12.52025		8.025-8.5	
12.57675-12.57725		9.0-9.2	
13.36-13.41		9.3-9.5	
16.42-16.423		10.6-12.7	
16.69475-16.69525		13.25-13.4	
16.80425-16.80475		14.47-14.5	
25.5-25.67		15.35-16.2	
37.5-38.25		17.7-21.4	
73-74.6		22.01-23.12	
74.8-75.2		23.6-24.0	
<b>108-121.94</b> <b>123-138</b>	<b>108-138</b>	31.2-31.8	
149.9-150.05		36.43-36.5	
156.52475-156.52525		Above 38.6	
156.7-156.9			
162.0125-167.17			
167.72-173.2			
240-285			
322-335.4			
399.9-410			
608-614			

Frequencies in **Bold** text are specific for FCC or ISED Canada, all other frequencies are common.

### 3.4 Spurious Emissions (Radiated)

FCC Part 15.209, 249 (d)

Test Results: Complies

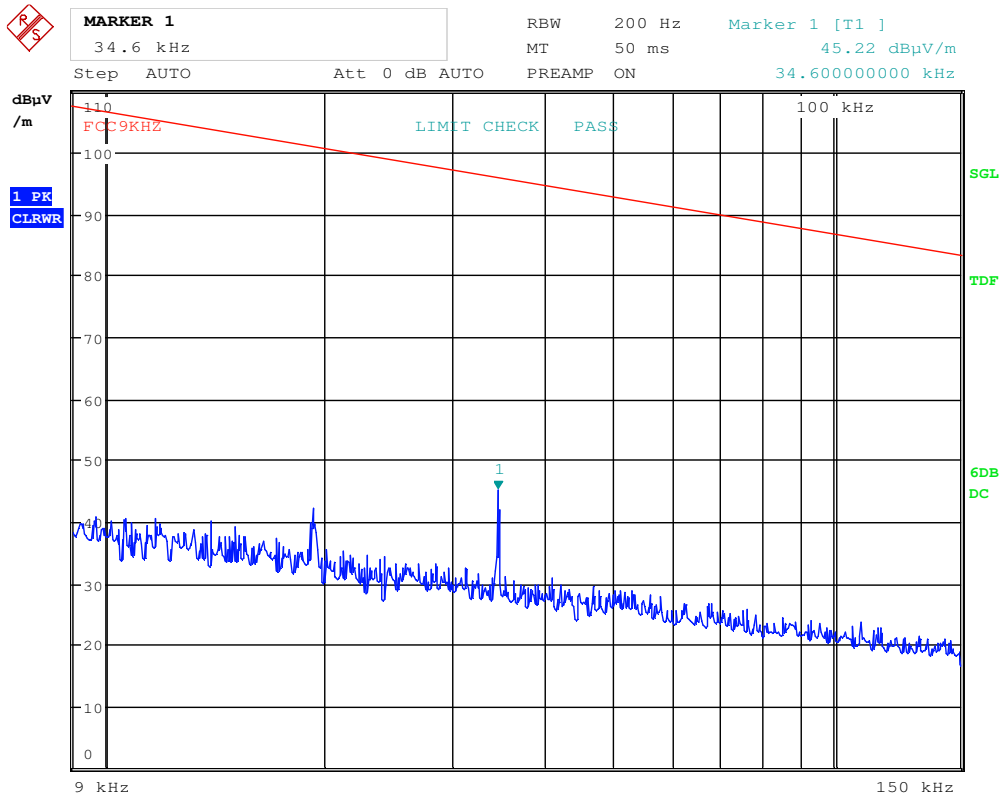
See attached plots.

#### Radiated emissions 10 kHz-30 MHz.

Measuring distance 10 m, measured with Peak detector.

No component detected, see attached graph.

Limit is converted to 10 m using 40 dB/decade according to 15.31 (f) (2).



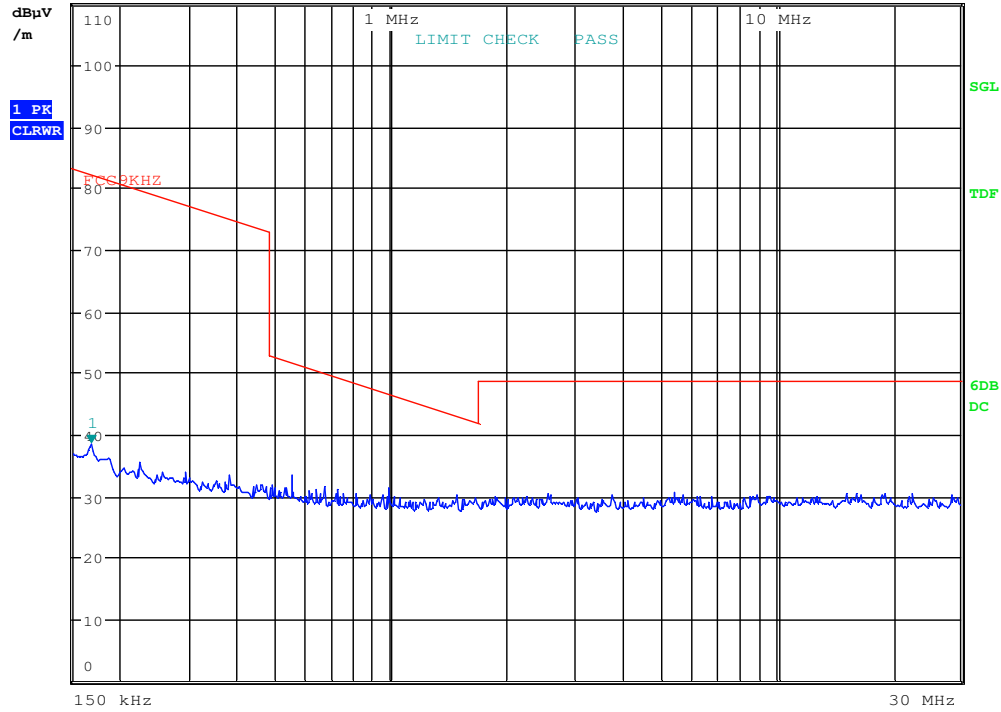
Date: 6.DEC.2018 06:51:50

Measured for MI receiver

**Radiated Emissions, 9 kHz – 150 kHz @10m,**  
 (component at 34.6kHz is background noise, and is not from the EUT)



**MARKER 1**  
 166 kHz  
 Step AUTO Att 0 dB AUTO PREAMP ON  
 RBW 9 kHz MT 50 ms  
 Marker 1 [T1 ] 38.51 dB $\mu$ V/m  
 166.00000000 kHz



Date: 6.DEC.2018 06:59:47

Measured for MI receiver  
**Radiated Emissions, 150 kHz – 30 MHz @10m,**



**Radiated emission 30 – 1000 MHz.**

Measuring distance 3 m.

Tested in speech mode with active connection.

Frequency	Operational condition	Field strength	Measuring distance	Limit FCC15.209	Margin
MHz		dB $\mu$ V/m	metres	dB $\mu$ V/m	dB
30-902	TX on	None detected	3	40	/
928 - 1000	TX on	None detected	3	46	/

See attached graphs.

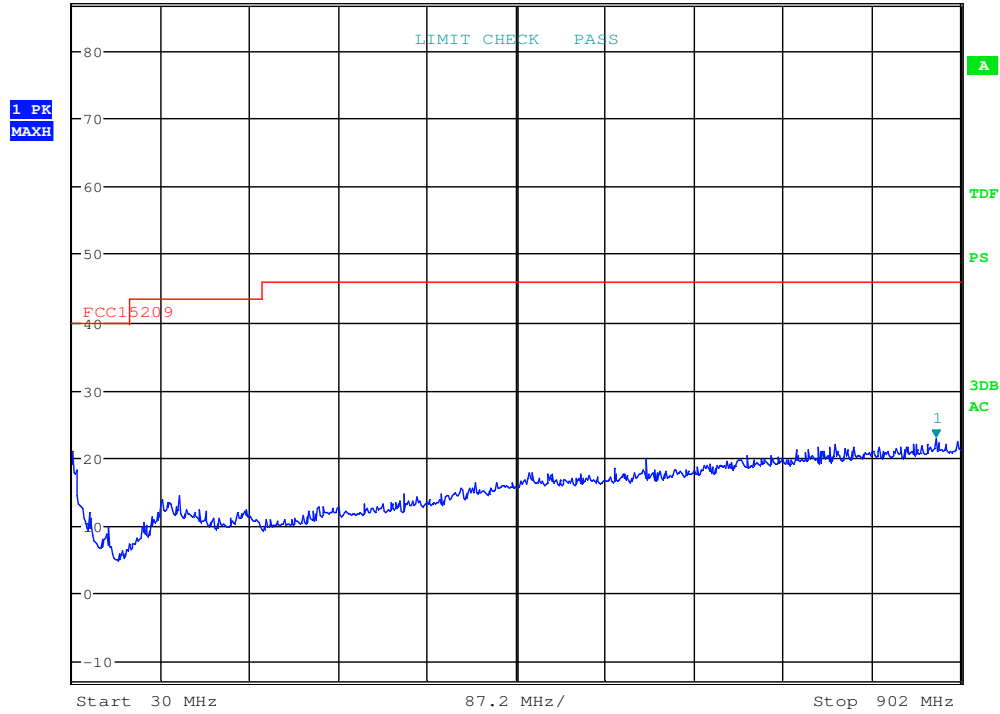
**Requirements/Limit**

<b>FCC</b>	Part 15.209 @ frequencies defined in §15.205	
<b>ISED</b>	RSS-GEN Issue 5, Clause 8.9 @ frequencies defined in clause 8.10	
	<b>Radiated emission limit @3 meters</b>	
<b>Frequency (MHz)</b>	<b>Quasi Peak (<math>\mu</math>V/m)</b>	<b>Quasi Peak (dB<math>\mu</math>V/m)</b>
<b>30 – 88</b>	100	40.0
<b>88 – 216</b>	150	43.5
<b>216 – 960</b>	200	46.0
<b>Above 960</b>	500	54.0

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.



**MARKER 1**  
 878.2435897 MHz \*RBW 100 kHz Marker 1 [T1 ]  
 Ref 87 dB $\mu$ V/m \*Att 10 dB VBW 300 kHz 22.84 dB $\mu$ V/m  
 SWT 90 ms 878.243589744 MHz



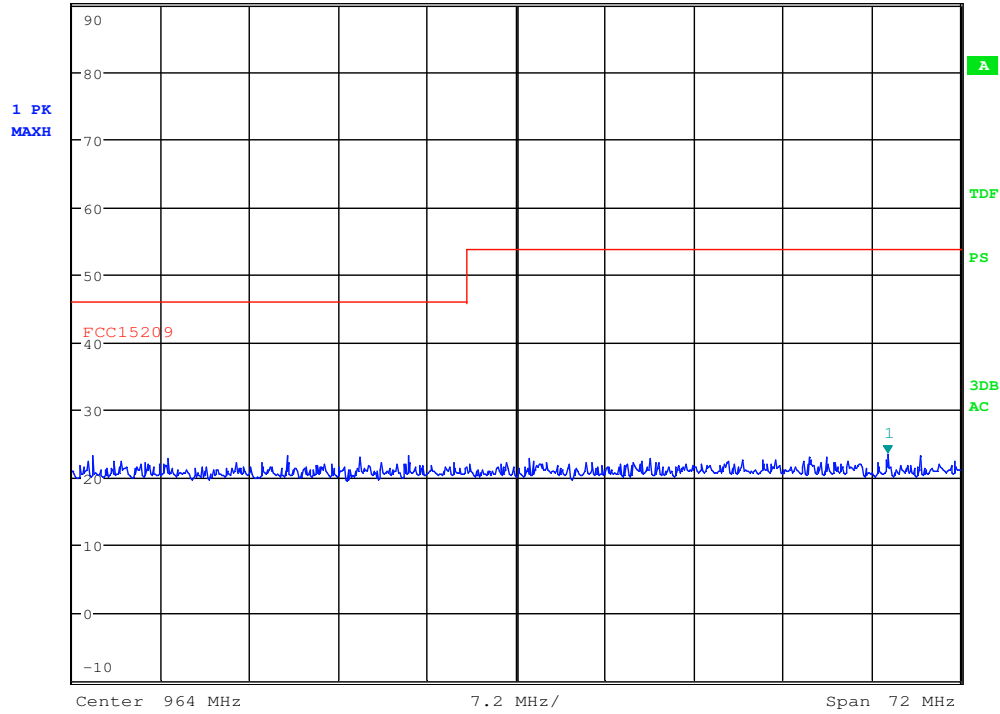
Date: 30.OCT.2018 15:40:15

**VP: 30 - 902MHz, PK scan**



**MARKER 1**  
 994.1153846 MHz  
 Ref 90 dB $\mu$ V/m \* Att 10 dB

\* RBW 100 kHz Marker 1 [T1 ]  
 VBW 300 kHz 23.47 dB $\mu$ V/m  
 SWT 10 ms 994.115384615 MHz



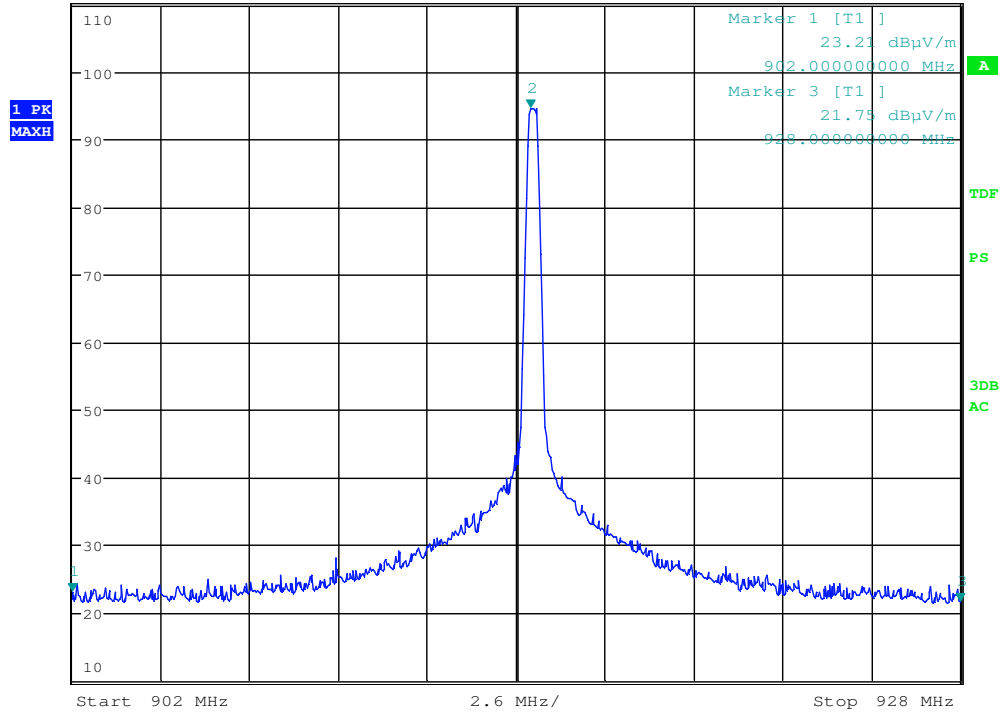
Date: 30.OCT.2018 15:55:05

**VP: 928 - 1000MHz, PKscan**



**MARKER 2**  
 915.4166667 MHz  
 Ref 110 dBµV/m \* Att 10 dB

\* RBW 100 kHz Marker 2 [T1 ]  
 VBW 300 kHz 94.50 dBµV/m  
 SWT 10 ms 915.416666667 MHz

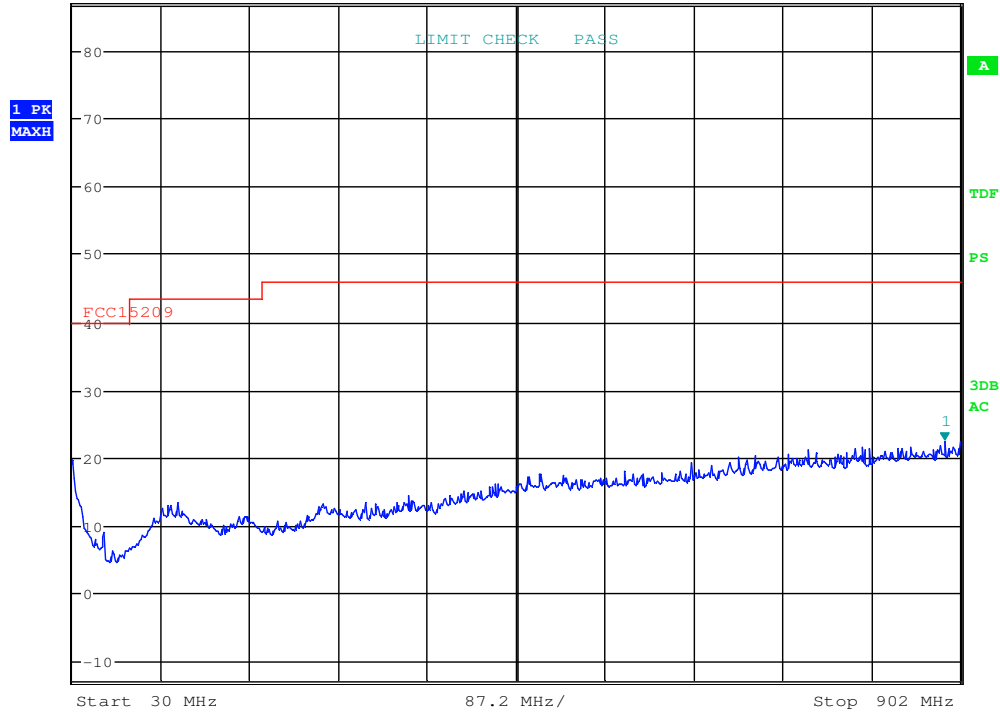


Date: 30.OCT.2018 15:56:19

**VP: 902 - 928MHz, PKscan, Inn band**



**MARKER 1**  
 886.6282051 MHz \*RBW 100 kHz Marker 1 [T1 ]  
 Ref 87 dBµV/m \*Att 10 dB VBW 300 kHz 22.33 dBµV/m  
 SWT 90 ms 886.628205128 MHz



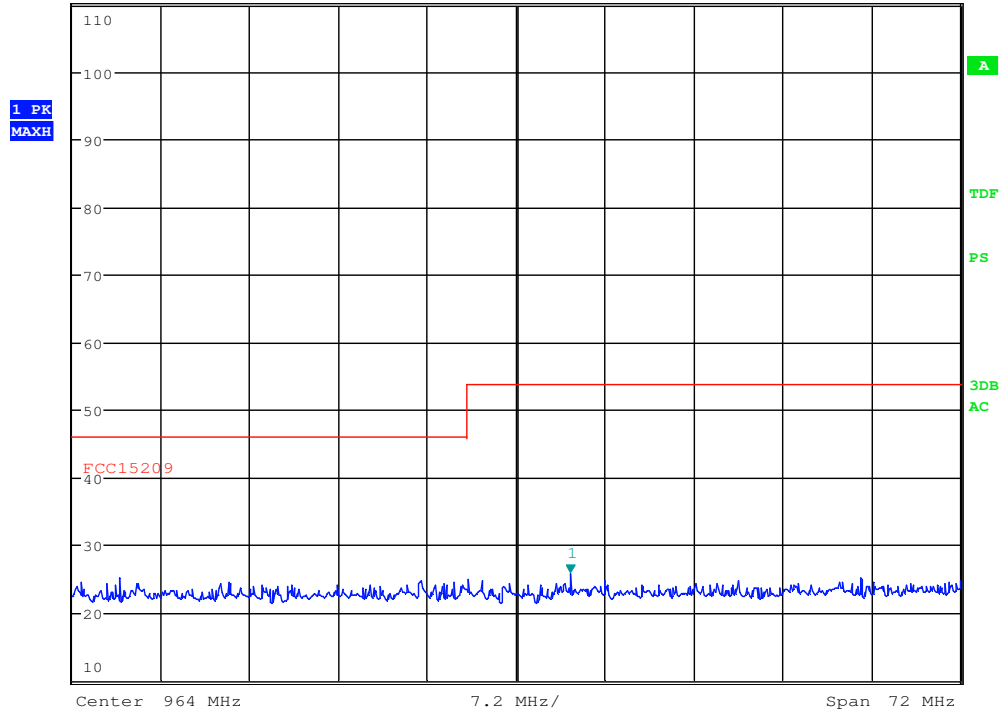
Date: 30.OCT.2018 15:41:21

**HP: 30 - 902MHz, PKscan**



**MARKER 1**  
 968.3846154 MHz  
 Ref 110 dBµV/m \* Att 10 dB

\* RBW 100 kHz Marker 1 [T1 ]  
 VBW 300 kHz 25.79 dBµV/m  
 SWT 10 ms 968.384615385 MHz



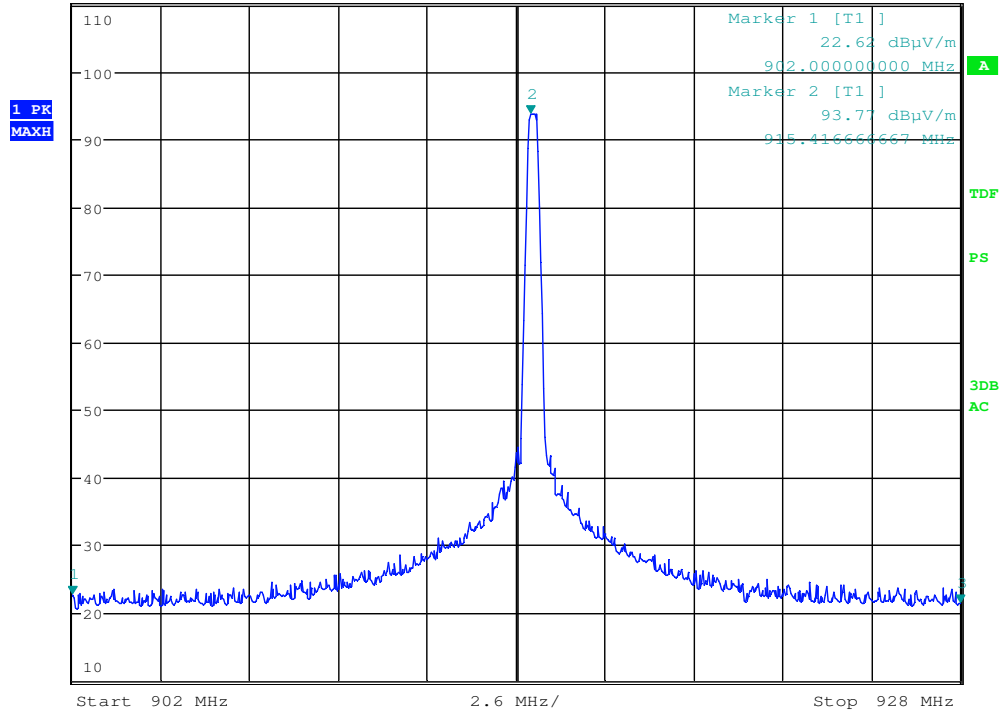
Date: 30.OCT.2018 15:58:07

**HP: 928 - 1000MHz, PKscan**



**MARKER 3**  
 928 MHz  
 Ref 110 dBµV/m \* Att 10 dB

\* RBW 100 kHz Marker 3 [T1 ]  
 VBW 300 kHz 21.47 dBµV/m  
 SWT 10 ms 928.000000000 MHz



Date: 30.OCT.2018 15:57:38

**HP: 902 - 928MHz, PKscan, Inn band**

### Radiated Emissions, 1-10 GHz

Measuring distance: 3m (1 – 10 GHz)

#### Peak Detector:

Frequency	RF channel	Dist. corr. factor	Field strength, Peak Detector, 3m	Duty cycle corr. factor	Limit	Margin
MHz	M	dB	dB $\mu$ V/m	dB	dB $\mu$ V/m	dB
2746.5	915.5MHz	0	45.78	/	74	28.2
3662.0	915.5MHz	0	54.19	/	74	19.8
4577.5	915.5MHz	0	56.64	/	74	17.4
5492.8	915.5MHz	0	57.92	/	74	16.1
Other freqs	915.5MHz	0	None detected	/	74	-

#### Average Detector:

Frequency	RF channel	Dist. corr. factor	Field strength, Peak Detector, 3m	Duty cycle corr. factor	Limit	Margin
MHz	M	dB	dB $\mu$ V/m	dB	dB $\mu$ V/m	dB
2746.5	915.5MHz	0	-	/	54	-
3662.0	915.5MHz	0	51.12	/	54	2.9
4577.5	915.5MHz	0	53.87	/	54	0.13
5492.8	915.5MHz	0	53.01	/	54	0.99
Other freqs	915.5MHz	0	None detected	/	54	-

Average Detector values are measured.

Antenna factor, amplifier gain and cable loss are included in spectrum analyzer "Transducer factor".

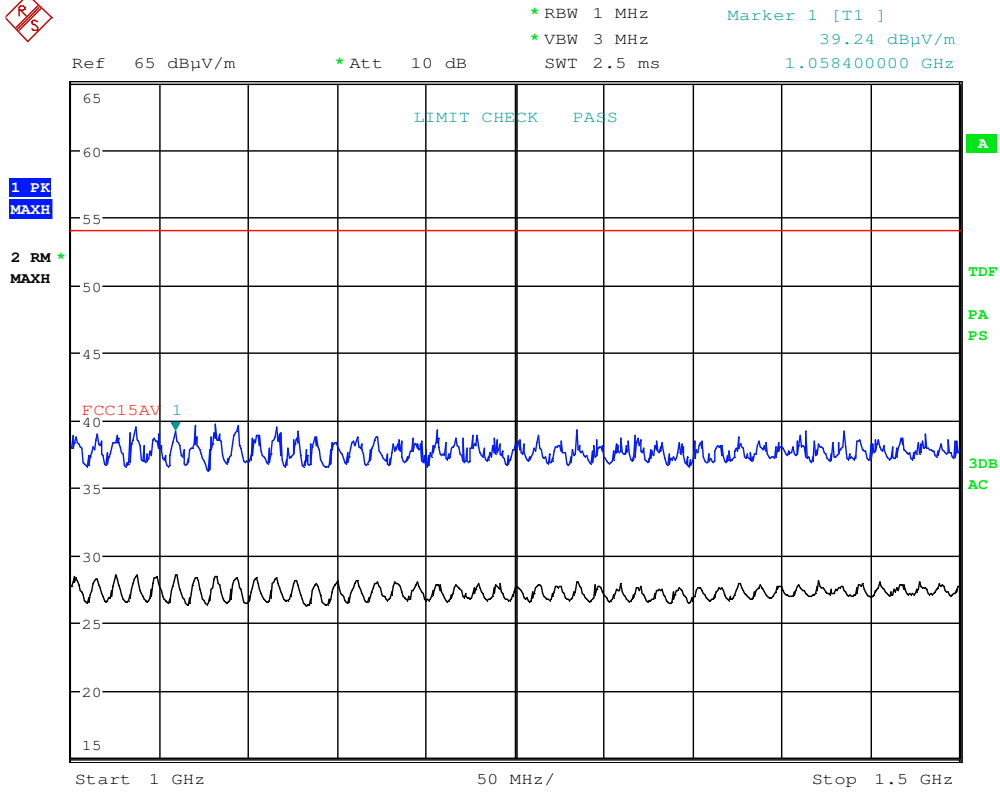
See plots.

#### Requirements/Limit

<b>FCC</b>	Part 15.209 @ frequencies defined in §15.205	
<b>ISED</b>	RSS-GEN Issue 5, Clause 8.9 @ frequencies defined in clause 8.10	
<b>Radiated emission limit @3 meters</b>		
<b>Frequency (MHz)</b>	<b>AV (dB<math>\mu</math>V/m)</b>	<b>Peak (dB<math>\mu</math>V/m)</b>
<b>Above 1 GHz</b>	54.0	74.0

(d) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation.





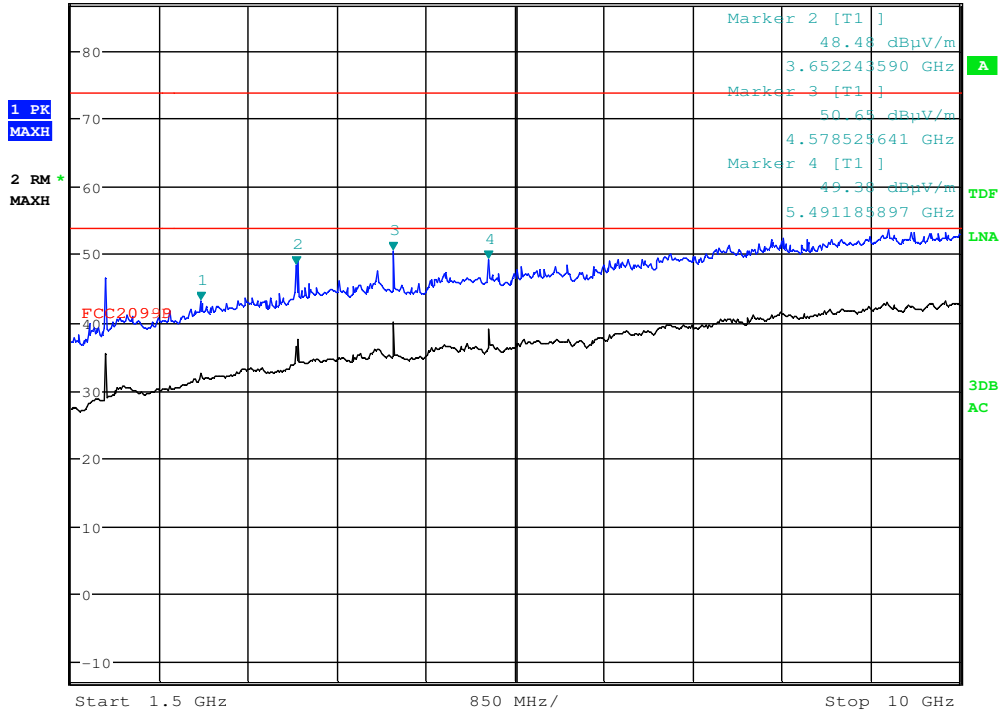
Date: 30.OCT.2018 14:21:57

**VP: 1 - 1.5GHz , PK scan**



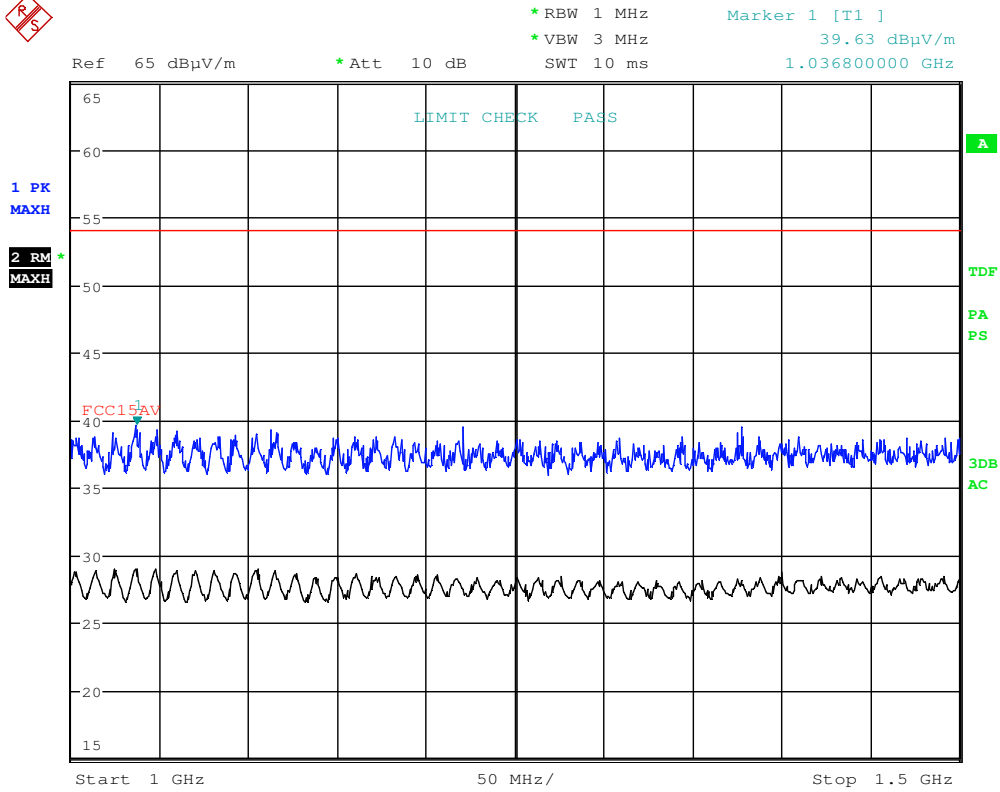
**MARKER 1**  
 2.739583333 GHz  
 Ref 87 dBµV/m \*Att 10 dB

\*RBW 1 MHz Marker 1 [T1 ]  
 VBW 10 MHz 43.29 dBµV/m  
 SWT 50 ms 2.739583333 GHz



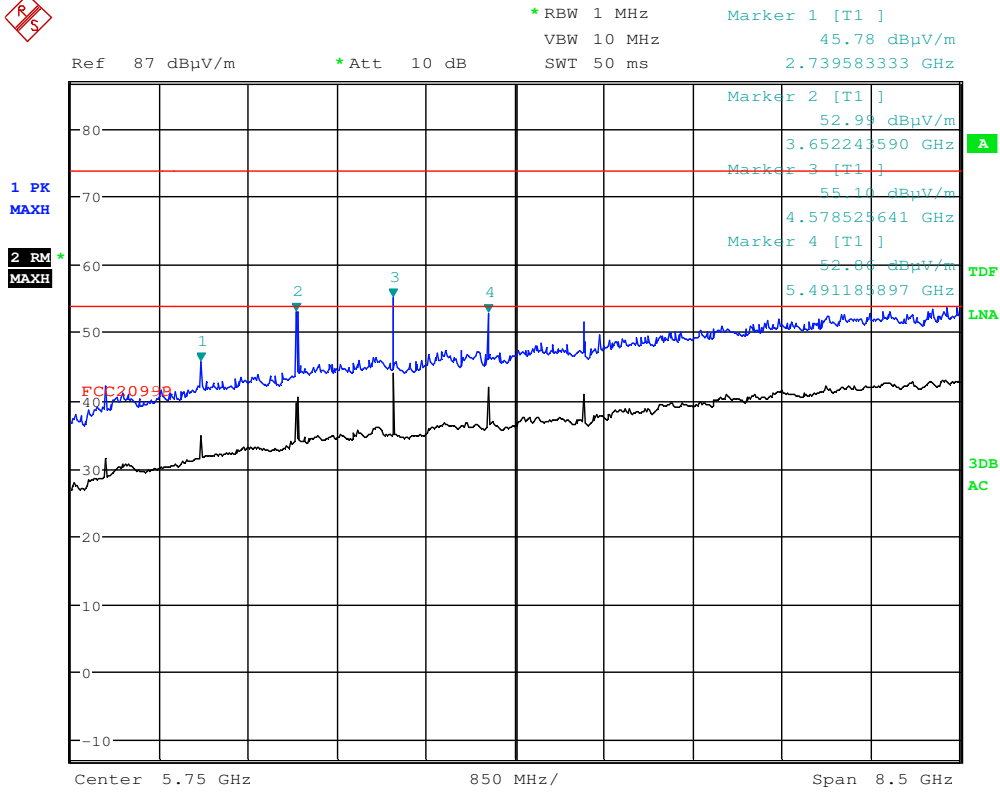
Date: 13.NOV.2018 10:25:22

**VP: 1.5 - 10GHz , PK scan**



Date: 30.OCT.2018 14:41:47

HP: 1 – 1.5GHz , PK scan



Date: 13.NOV.2018 10:22:18

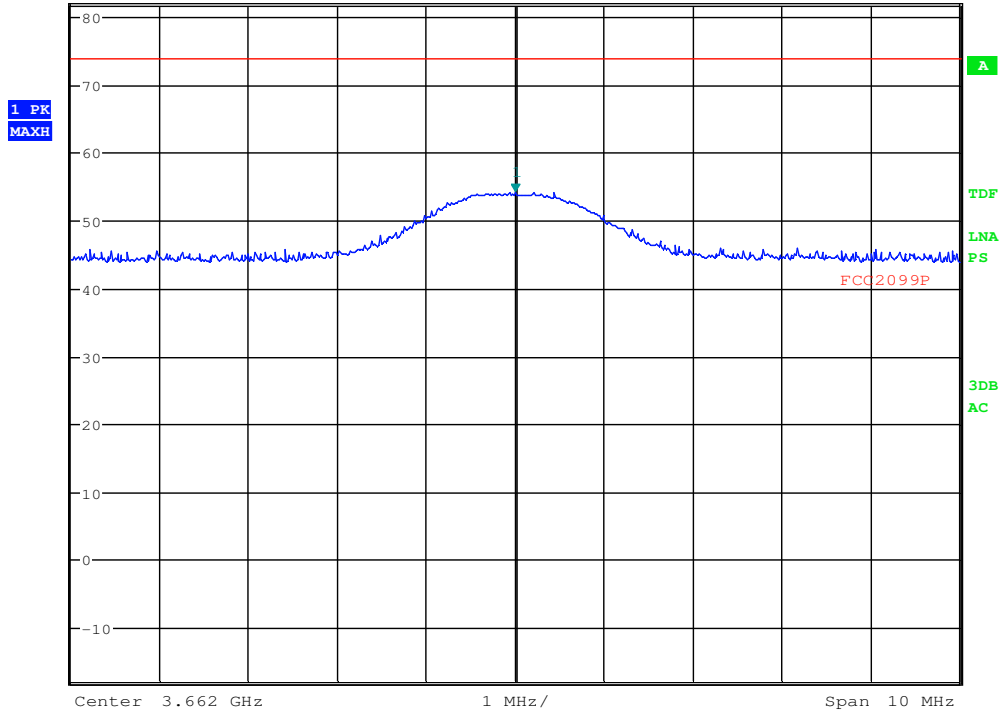
HP: 1.5 - 10GHz , PK scan



**MARKER 1**  
 3.662 GHz  
 Ref 82 dB $\mu$ V/m \* Att 10 dB

\* RBW 1 MHz  
 VBW 3 MHz  
 SWT 20 ms

Marker 1 [T1 ]  
 54.19 dB $\mu$ V/m  
 3.66200000 GHz



Date: 13.NOV.2018 08:39:16

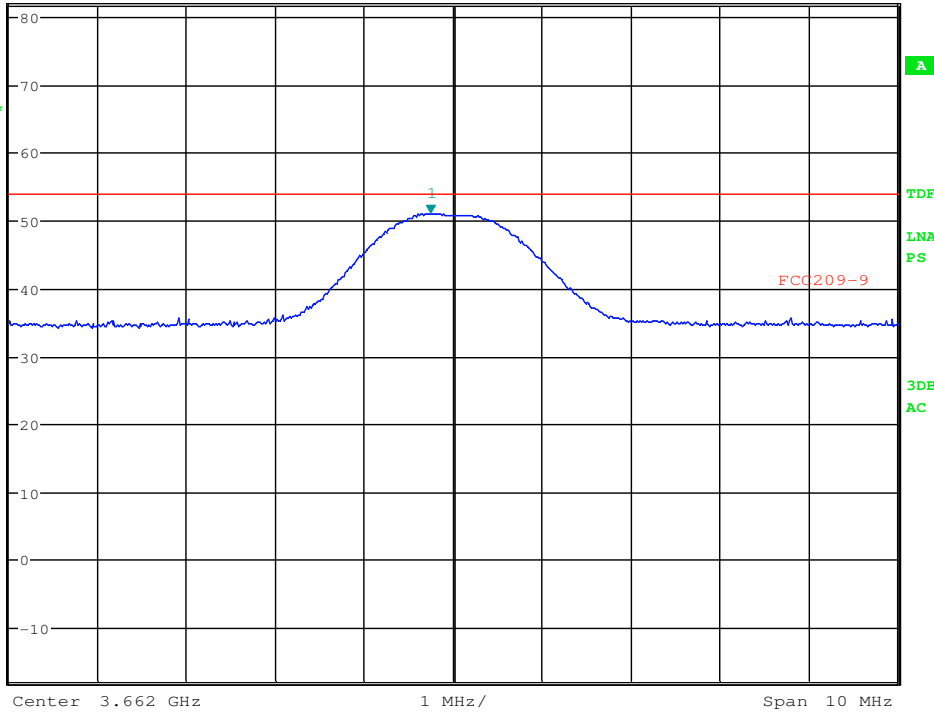
**HP: 4<sup>th</sup> Harmonic, PK**



**MARKER 1**  
 3.66174359 GHz  
 Ref 82 dB $\mu$ V/m \*Att 10 dB

\*RBW 1 MHz Marker 1 [T1 ]  
 VBW 10 MHz 51.12 dB $\mu$ V/m  
 SWT 20 ms 3.661743590 GHz

1 RM  
 MAXH



Date: 13.NOV.2018 08:40:14

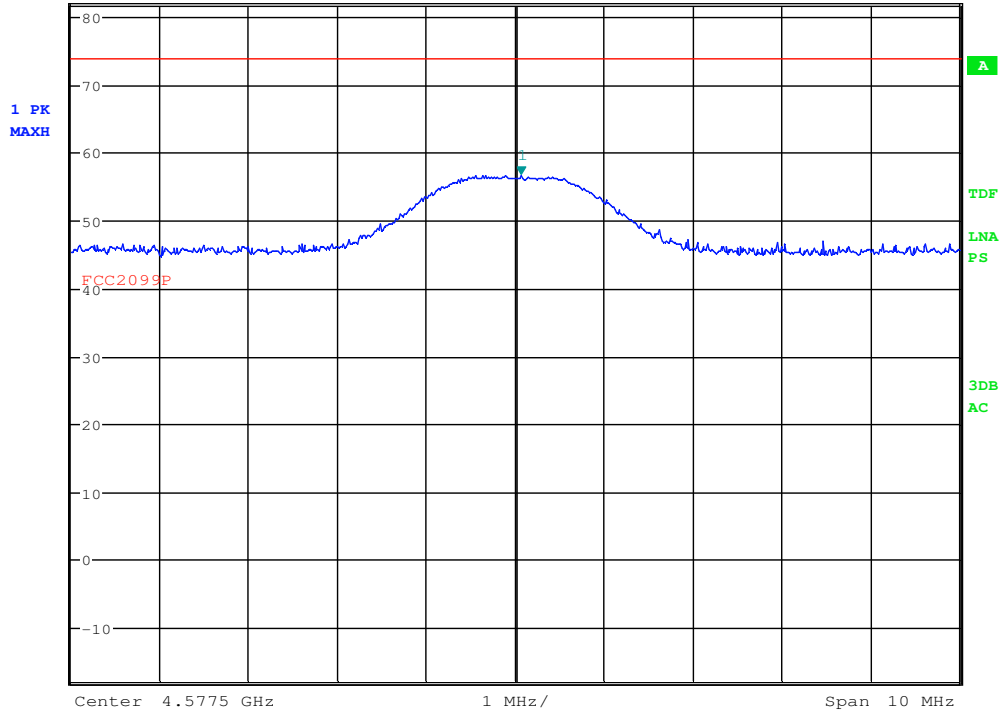
**HP: 4<sup>th</sup> harmonic , rms**



**MARKER 1**  
 4.577564103 GHz  
 Ref 82 dB $\mu$ V/m \* Att 10 dB

\* RBW 1 MHz  
 VBW 3 MHz  
 SWT 20 ms

Marker 1 [T1 ]  
 56.64 dB $\mu$ V/m  
 4.577564103 GHz



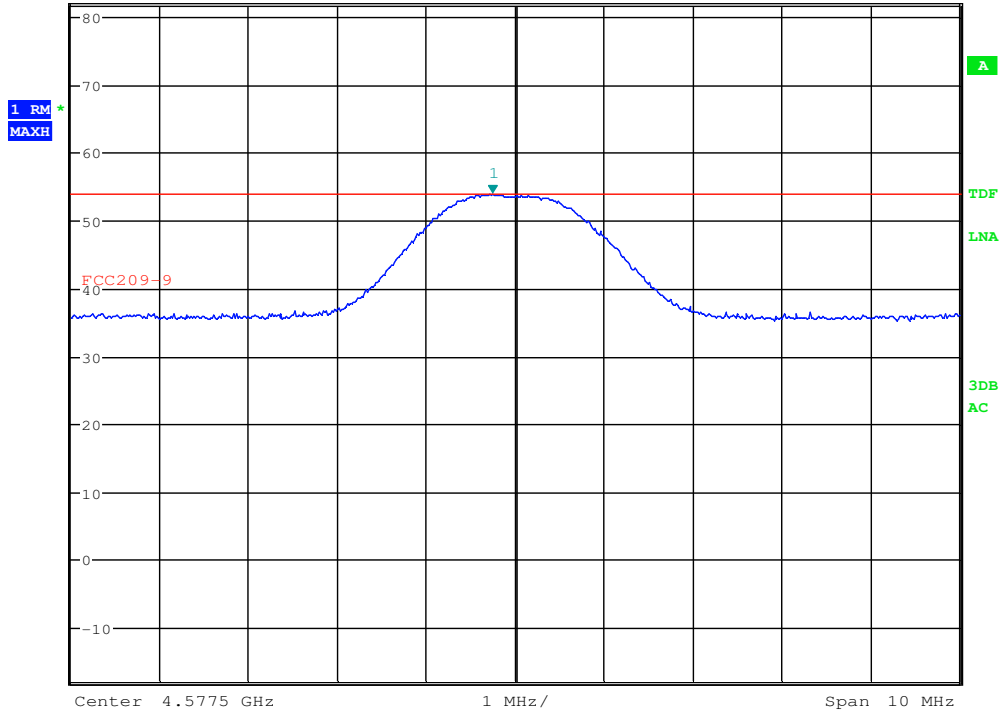
Date: 13.NOV.2018 08:59:13

**HP: 5<sup>th</sup> harmonic, PK**



**MARKER 1**  
 4.57724359 GHz  
 Ref 82 dB $\mu$ V/m \* Att 10 dB

\* RBW 1 MHz Marker 1 [T1 ]  
 VBW 10 MHz 53.87 dB $\mu$ V/m  
 SWT 20 ms 4.577243590 GHz



Date: 13.NOV.2018 09:08:16

**HP: 5<sup>th</sup> harmonic , rms**

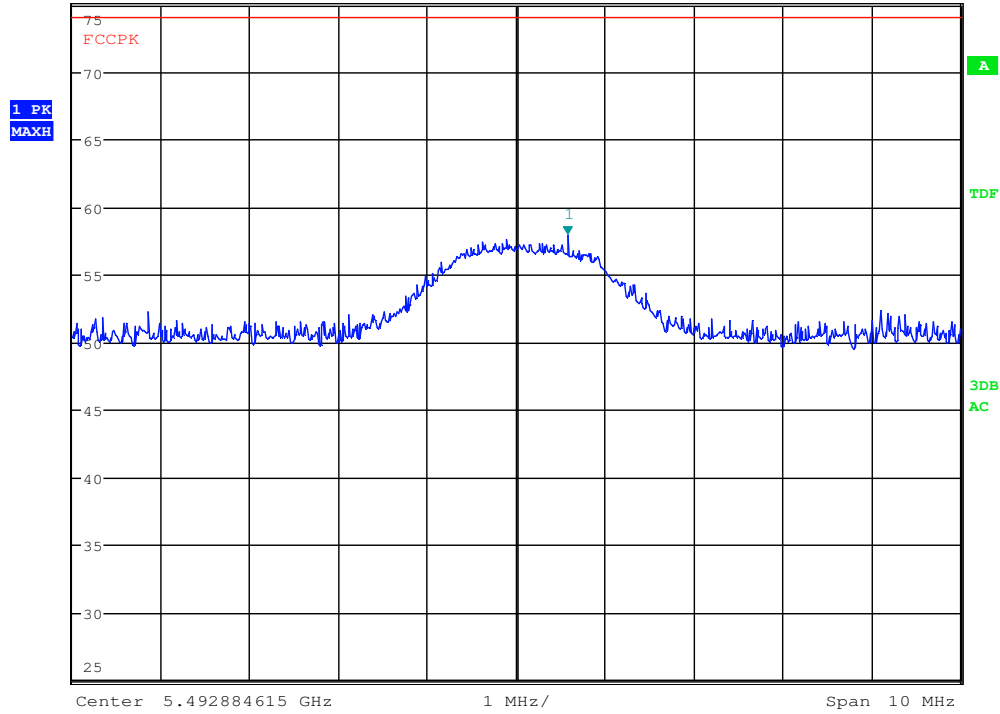




**MARKER 1**  
 5.493461538 GHz  
 Ref 75 dB $\mu$ V/m \* Att 10 dB

\* RBW 1 MHz  
 \* VBW 3 MHz  
 SWT 20 ms

Marker 1 [T1 ]  
 57.92 dB $\mu$ V/m  
 5.493461538 GHz

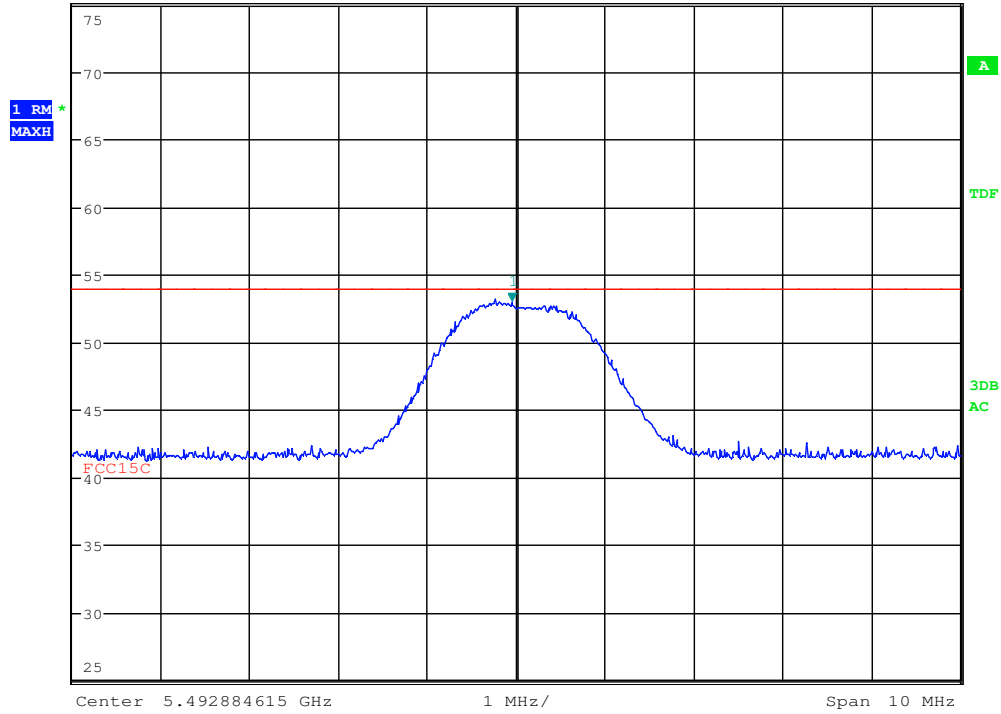


Date: 30.OCT.2018 15:22:57

**HP: 6<sup>th</sup> harmonic, PK**



**MARKER 1**  
 5.492836538 GHz  
 Ref 75 dB $\mu$ V/m \* Att 10 dB \* RBW 1 MHz Marker 1 [T1 ]  
 \* VBW 3 MHz 53.01 dB $\mu$ V/m  
 SWT 20 ms 5.492836538 GHz



Date: 30.OCT.2018 15:23:32

**HP: 6<sup>th</sup> harmonic , rms**

## 4 Measurement Uncertainty

Measurement Uncertainty Values		
Test Item		Uncertainty
Output Power		±0.5 dB
Power Spectral Density		±0.5 dB
Out of Band Emissions, Conducted	< 3.6 GHz	±0.6 dB
	> 3.6 GHz	±0.9 dB
Spurious Emissions, Radiated	< 1 GHz	±2.5 dB
	> 1 GHz	±2.2 dB
Emission Bandwidth		±4 %
Power Line Conducted Emissions		+2.9 / -4.1 dB
Spectrum Mask Measurements	Frequency	±5 %
	Amplitude	±1.0 dB
Frequency Error		±0.6 ppm
Temperature Uncertainty		±1 °C

All uncertainty values are expanded standard uncertainty to give a confidence level of 95%, based on coverage factor k=2

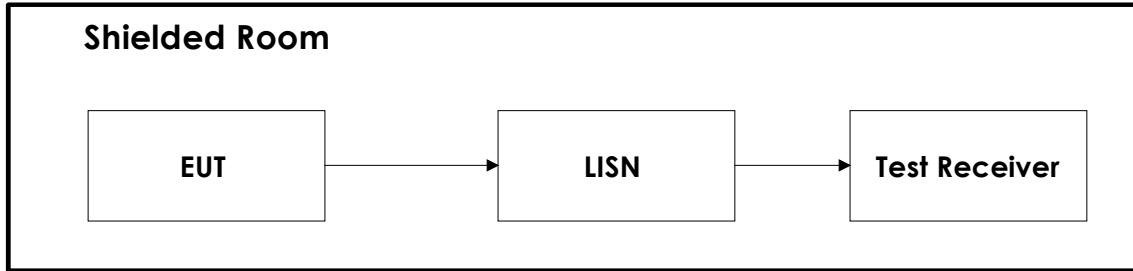
## 5 LIST OF TEST EQUIPMENT

To facilitate inclusion on each page of the test equipment used for related tests, each item of test equipment and ancillaries are identified (numbered) by the Test Laboratory.

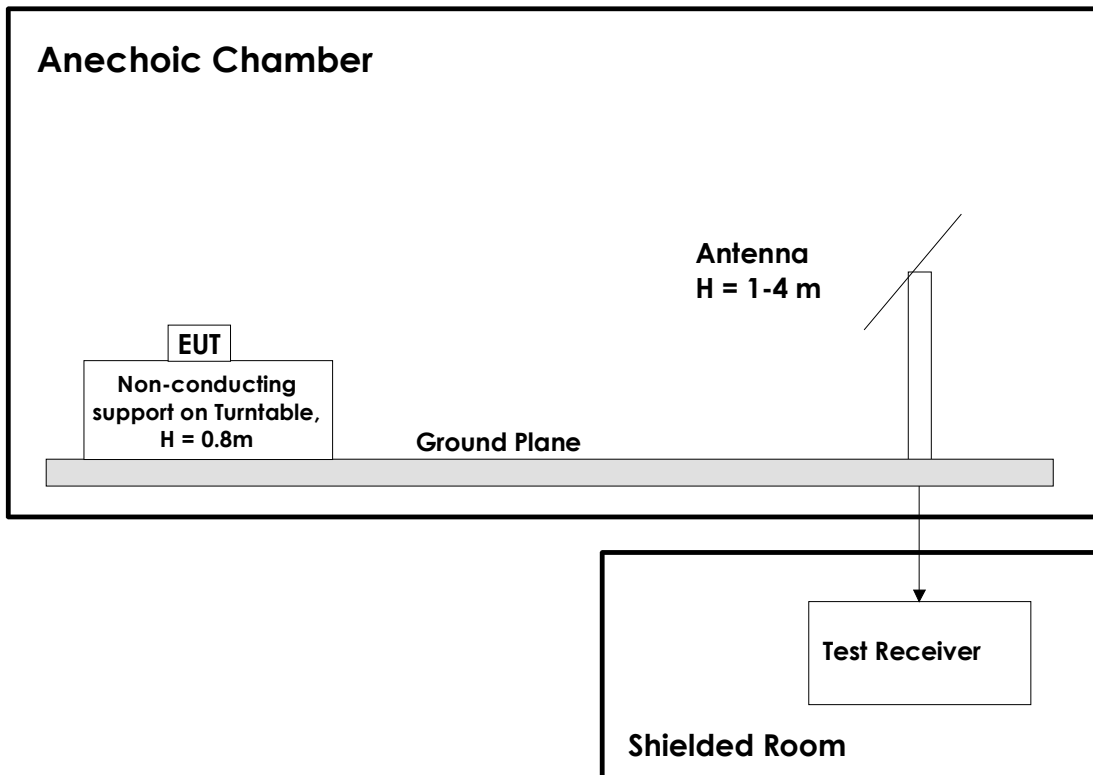
No.	Model number	Description	Manufacturer	Ref. no.	Cal. date	Cal. Due
1	ESU40	Measuring Receiver	Rohde & Schwarz	LR 1639	2017.11	2019.11
2	317	Preamplifier	Sonoma	LR 1687	2018.07	2019.07
3	JB3	Biconical -log hybrid	Sunol Sciences	N-4525	2017.11	2019.11
4	FSW43	EMI receiver	Rohde & Schwarz	LR 1690	2018.01	2019.01
5	3115	Horn Antenna	EMCO	LR 1330	2016.10	2019.10
6	8449A	Pre-amplifier	Hewlett Packard	LR 1322	2018.07	2019.07
7	6HC1500/10000	Highpass Filter	Trilithic	LR 1614	Cal b4 use	
8	Model 87V	Multimeter	Fluke	LR 1599	2018.10	2020.10
9	6810.17B	attenuator	Suhner	LR 1668	Cal b4 use	
10	/	Cable	Rosenberger	LR 1627	Cal b4 use	

## 6 BLOCK DIAGRAM

### 6.1 Power Line Conducted Emission



### 6.2 Test Site Radiated Emission



Measurements at 1GHz and above were performed with turntable height 1.5m and with the ground plane covered by absorbers.