
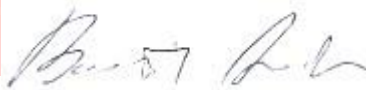
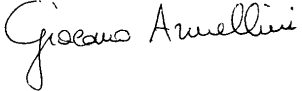




PRIMA

RICERCA & SVILUPPO

RAPPORTO DI PROVA / TEST REPORT

Rif./Ref.No. FCCTR_151063B-1	Data / Date: 19/02/2016	Pagine / Pages :43
Scopo delle prove / Test object :	Prove di tipo in accordo a / Type test according to 47 CFR Part 74	
Richiedente / Applicant :	AEB Industriale S.r.l. Via Brodolini, 8 – 40056 Crespellano (BO) – ITALY Tel. +39 051 969870	
Persona di riferimento / Applicant's referee :	Mr. Andrea Molinari (a.molinari@ssc-info.it)	
Marchio commerciale / Trademark :		
Fabbricante / Manufacturer :	AEB Industriale S.r.l.	
Prodotto / Product :	Professional Bodyworn Radiomicrophone	
Modello / Model :	MOVING One (UHF Band 1)	
FCC ID	2ADDV-MOVINGONEB	
Data ricevimento campioni / Date of test samples receipt :	25/03/2015	
Campioni verificati / No. of tested samples	1	
Data verifiche / Testing date :	31/07-06/08/2015, 15/02/2016	
Sito di prova / Testing site :	Prima Ricerca & Sviluppo Via Campagna - 92 I-22020 FALOPPIO CO FCC test registration number: 421808	
Esito delle valutazioni / Assessment results :	CONFORME / COMPLIANT	
Verifiche effettuate da / Verifications carried out by :	Andrea Bortolotti Tecnico Laboratorio EMC e RADIO/ EMC and RADIO Laboratory technician	
Approvato / Approved by :	Giacomo ARMELLINI Responsabile Laboratorio EMC e RADIO/ EMC and RADIO Laboratory Manager	

I risultati delle prove riportati nel presente rapporto di prova si riferiscono solo ai campioni esaminati./

The test results reported in this test report shall refer only to the samples tested

Questo Report non può essere riprodotto in modo parziale, salvo espresso autorizzazione scritta da parte del Laboratorio /

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PRIMA RICERCA & SVILUPPO

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0 RELEASE CONTROL RECORD

TEST REPORT NUMBER	REASON OF CHANGE	DATE OF ISSUE
FCCTR_151063B-0	Original release	19/10/2015
FCCTR_151063B-1	Editorial Change	19/02/2016

1 TECHNICAL INFORMATION OF EQUIPMENT UNDER TEST (EUT)

1.1 EUT Identification

DESCRIPTION	Professional Bodyworn Radiomicrophone
TYPE	MOVING one (UHF Band 1)
FCC ID	2ADDV-MOVINGONEB
TRADEMARK	
S/N	Not present (prototype)
HVIN:	PST1029B
FVIN:	Not available
MANUFACTURER	AEB Industriale Srl
COUNTRY OF MANUFACTURER	Italy
SINGLE UNIT OR SYSTEM	Single Unit

1.2 EUT technical information

FREQUENCY RANGE:	Frequency range = 518.150MHz to 541.900MHz		
TESTED FREQUENCY:	BAND 1		
	Group N Channel 0 518.150 MHz	Group A channel 4 529.650MHz	Group F channel 7 541.900MHz
FREQUENCY BAND:	For complete frequency channel list see ANNEX 1		
MODULATION:	Analog FM max 35kHz deviation		
ANTENNA:	External dedicated		
POWER SUPPLY:	3Vdc powered by internal battery (2x1,5Vdc type AA alkaline battery)		
TEMPERATURE RANGE:	-30°C to + 55°C		

1.3 Additional information

Test setup and EUT photos are included in test report:

TSupPhotos_151063B-0

2 REFERENCE STANDARDS FOR PERFORMED TESTS

47 CFR Part 74	Title 47 of the Code of Federal Regulations; Chapter I part 74 – Experimental radio, auxiliary. Special broadcast and other program distribution services
ANSI/TIA-603-C-2004	Land Mobile FM or PM – Communications Equipment – Measurement and Performance Standards

3 EUT OPERATING CONDITIONS

In the following table there are the operating conditions adopted during tests identified by an indicator (#..) at which has been referred the item “Operating condition of the equipment under test”

<i>Operating condition</i>	<i>Description</i>
#1	Continuous Modulated Transmission (modulation type: FM analog modulation)
#2	Continuous Unmodulated Transmission

4 SUMMARY OF TEST RESULTS

TRANSMITTER PARAMETERS (TX)								
TEST SPECIFICATION CLAUSE	TEST	TEMPERATURE CONDITIONS	POWER SOURCE VOLTAGES	PASS	FAIL	NA	NP	RESULTS
FCC 47 CFR § 74.861 (e)(1)(ii)	Output power	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	COMPLIANT
FCC 47 CFR § 74.861 (e)(4)	Frequency Stability	Nominal	Extreme	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	COMPLIANT
		Extreme	Nominal					
FCC 47 CFR § 2.1049 § 74.861 (e)(5)	Occupied bandwidth	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	COMPLIANT
FCC 47 CFR § 74.861 (e)(6)(i)(ii)	Unwanted radiation (spectrum mask)	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	COMPLIANT
FCC 47 CFR § 74.861 (e)(3)	Modulation Characteristics	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	COMPLIANT
FCC 47 CFR § 74.861 (e)(6)(iii)	Field strength of spurious radiation Transmitter unwanted emissions	Nominal	Nominal	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	COMPLIANT

Note: NA = Not Applicable; NP = Not Performed

**TEST
1.**

TRANSMITTER OUTPUT POWER

REFERENCE DOCUMENT FCC 47 CFR§ 74.861 (e)(1)(i)

TEST SETUP	In according to ref std
TEST LOCATION	Radio test area
TEST METHOD	ANSI/TIA-603-C (2004) 2.2.1 FCC CFR 47 Part 2.1046
TYPE OF MEASUREMENT	CONDUCTED
TEST EQUIPMENT	Spectrum AnalyzerRohde&Schwarz mod. FSP40
TEST PERFORMED BY	Andrea Bortolotti
TESTING DATE	31/07/2015

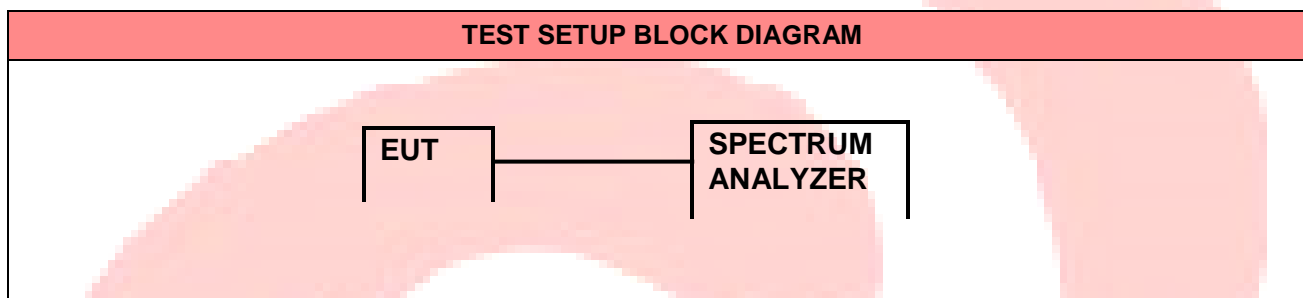
TEST CONDITIONS:		MEASURED
Ambient temperature :	23°C±5°C	24°C
Ambient humidity :	25 - 75 %rH	45%
Pressure :	85 - 106 kPa (860 mbar - 1060 mbar)	960mbar
Voltage		3Vdc

OPERATING CONDITION	#2
----------------------------	----

TEST RESULT	WITHIN THE LIMITS
--------------------	--------------------------

MEASUREMENT PARAMETER	
Detector:	Peak
Sweep time:	Auto
Resolution bandwidth:	100 kHz
Video bandwidth:	300 kHz
Span:	2 MHz
Trace-Mode:	Max. hold

LIMITS
47 CFR § 74.861 (e)(1)(ii)
Maximum transmitter power
470-608 and 614-698 MHz bands—250 mW



TEST RESULTS

FREQUENCY (CHANNEL)	TRANSMITTER OUTPUT POWER	RESULT
518.150 MHz (N0)	10.4dBm (11.0mW)	PASS
529.650MHz (A4)	12.7dBm (18.6mW)	PASS
541.900MHz (F7)	14.3dBm (26.9mW)	PASS

PLOTS OF THE MEASUREMENTS

FREQUENCY (CHANNEL)		
N0	A4	
F7	Frequency (MHz)	MaxPeak (dBm)
	518.150000	10.4
	529.650000	12.7
	541.900000	14.3

**TEST
2.**

FREQUENCY STABILITY

REFERENCE DOCUMENT FCC 47 CFR§ 74.861 (e)(4)

TEST SETUP	In according to ref std
TEST LOCATION	Radio test area
TEST METHOD	ANSI/TIA-603-C (2004) 2.2.2 FCC CFR 47 Part 2.1055
TYPE OF MEASUREMENT	CONDUCTED
TEST EQUIPMENT	Spectrum AnalyzerRohde&Schwarz mod. FSP40 Climatic Chamber
TEST PERFORMED BY	Andrea Bortolotti
TESTING DATE	03/08/2015, 15/02/2016

TEST CONDITIONS:	MEASURED
Ambient temperature : 23°C±5°C	24°C
Ambient humidity : 25 - 75 %rH	45%
Pressure : 85 - 106 kPa (860 mbar - 1060 mbar)	960mbar
Voltage	See test results

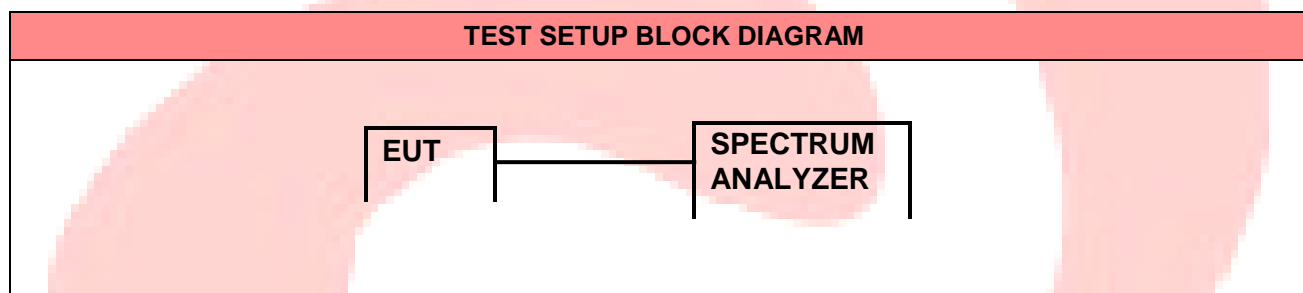
OPERATING CONDITION	#2
----------------------------	----

TEST RESULT	WITHIN THE LIMITS
--------------------	--------------------------

FREQUENCY ERROR VS TEMPERATURE

MEASUREMENT PARAMETER	
Detector:	Peak
Sweep time:	Auto
Resolution bandwidth:	100 Hz
Video bandwidth:	100 Hz
Span:	1 kHz
Trace-Mode:	Max. hold
Voltage (nominal)	3Vdc

LIMITS
FCC 47 CFR§ 74.861 (e)(4)
The frequency tolerance of the transmitter shall be 0.005 percent (50ppm)



TEST RESULTS

Channel N0

TEMPERATURE	FREQUENCY	DEVIATION (Hz)	DEVIATION (ppm)	RESULT
-30°C	518,150008475	8,5	0,016	PASS
-20°C	518,150009525	9,5	0,018	PASS
-10°C	518,150012585	12,6	0,024	PASS
0°C	518,150018755	18,8	0,036	PASS
10°C	518,150019650	19,7	0,038	PASS
20°C	518,150017985	18,0	0,035	PASS
30°C	518,150015420	15,4	0,030	PASS
40°C	518,150014890	14,9	0,029	PASS
50°C	518,150015475	15,5	0,030	PASS

Channel A4

TEMPERATURE	FREQUENCY	DEVIATION (Hz)	DEVIATION (ppm)	RESULT
-30°C	529,650008445	8,4	0,016	PASS
-20°C	529,650009785	9,8	0,018	PASS
-10°C	529,650009985	10,0	0,019	PASS
0°C	529,650009855	9,9	0,019	PASS
10°C	529,650005875	5,9	0,011	PASS
20°C	529,650008750	8,8	0,017	PASS
30°C	529,650009210	9,2	0,017	PASS
40°C	529,650008725	8,7	0,016	PASS
50°C	529,650009975	10,0	0,019	PASS

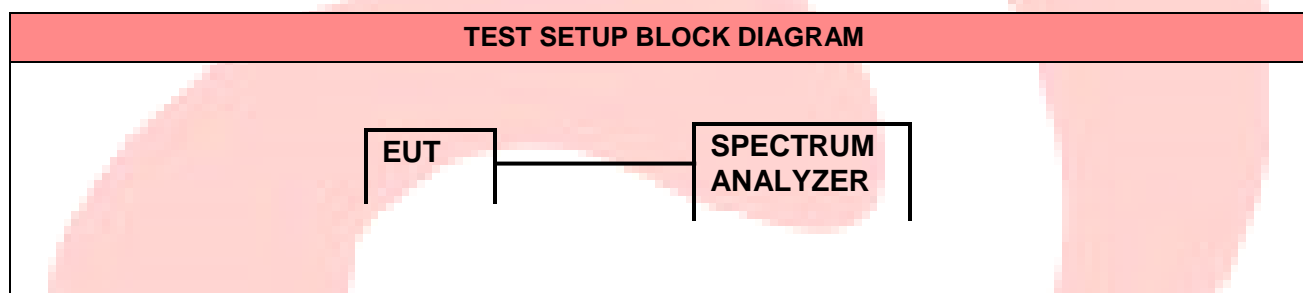
Channel F7

TEMPERATURE	FREQUENCY	DEVIATION (Hz)	DEVIATION (ppm)	RESULT
-30°C	541,900004785	4,8	0,009	PASS
-20°C	541,900008755	8,8	0,016	PASS
-10°C	541,900009875	9,9	0,018	PASS
0°C	541,900015450	15,4	0,029	PASS
10°C	541,900018655	18,7	0,034	PASS
20°C	541,900015455	15,5	0,029	PASS
30°C	541,900018755	18,8	0,035	PASS
40°C	541,900014550	14,6	0,027	PASS
50°C	541,900015200	15,2	0,028	PASS

FREQUENCY ERROR VS VOLTAGE

MEASUREMENT PARAMETER	
Detector:	Peak
Sweep time:	Auto
Resolutionbandwidth:	100 Hz
Video bandwidth:	100 Hz
Span:	1 kHz
Trace-Mode:	Max. hold
Temperature	22°C

LIMITS
FCC 47 CFR§ 74.861 (e)(4)
The frequency tolerance of the transmitter shall be 0.005 percent (50ppm)



TEST RESULTS

CHANNEL	VOLTAGE	FREQUENCY	DEVIATION (HZ)	DEVIATION (PPM)	RESULT
N0	2.0Vdc	518.150017040	17.0	0.033	PASS
	2.7Vdc	518.150016250	16.3	0.031	PASS
	3Vdc	518.150015250	15.3	0.029	PASS
A4	2.0Vdc	529.650007560	7.6	0.014	PASS
	2.7Vdc	529.650007480	7.5	0.014	PASS
	3Vdc	529.650007950	8.0	0.015	PASS
F7	2.0Vdc	541.900019985	20.0	0.037	PASS
	2.7Vdc	541.900019875	19.9	0.037	PASS
	3Vdc	541.900018750	18.7	0.035	PASS

**TEST
3.**

OCCUPIED BANDWIDTH

REFERENCE DOCUMENT FCC 47 CFR§2.1049 §74.861 (e)(5)

TEST SETUP	In according to ref std
TEST LOCATION	Radio test area
TEST METHOD	FCC CFR 47 Part 2.1049
TYPE OF MEASUREMENT	CONDUCTED
TEST EQUIPMENT	Spectrum AnalyzerRohde&Schwarz mod. FSP40
TEST PERFORMED BY	Andrea Bortolotti
TESTING DATE	04/08/2015

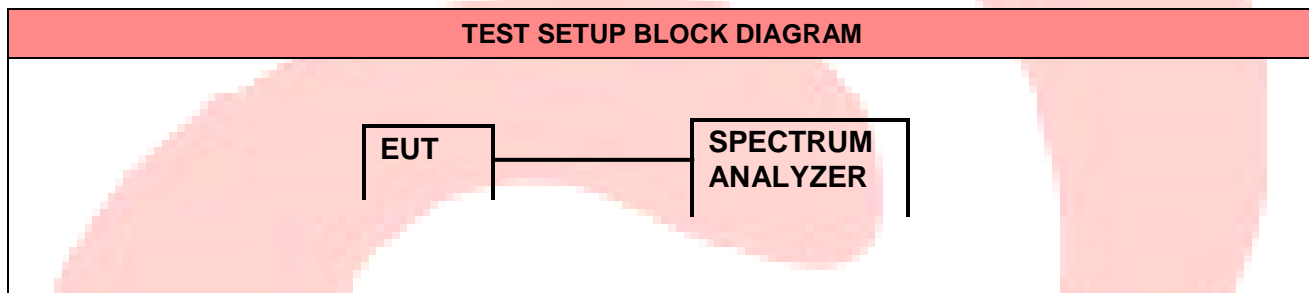
TEST CONDITIONS:	MEASURED
Ambient temperature : 23°C±5°C	24 °C
Ambient humidity : 25 - 75 %rH	45%
Pressure : 85 - 106 kPa (860 mbar - 1060 mbar)	960 mbar
Voltage :	3Vdc

OPERATING CONDITION (Rif. Section 3) :#1 (modulation type: Analog FM max 35kHz deviation)

TEST RESULTS: COMPLIANT

MEASUREMENT PARAMETER	
Detector:	Peak
Sweep time:	Auto
Resolution bandwidth:	3kHz
Video bandwidth:	3kHz
Span:	see plots
Trace-Mode:	Max. hold

LIMITS
Occupied bandwidth 99%. Other than single sideband or independent sideband transmitters – when modulated by a 2500 Hz tone at an input level 16 dB greater than that necessary to produce 50 percent modulation. The input level shall be established at the frequency of maximum response of the audiomodulating circuit.
The operating bandwidth shall not exceed 200 kHz

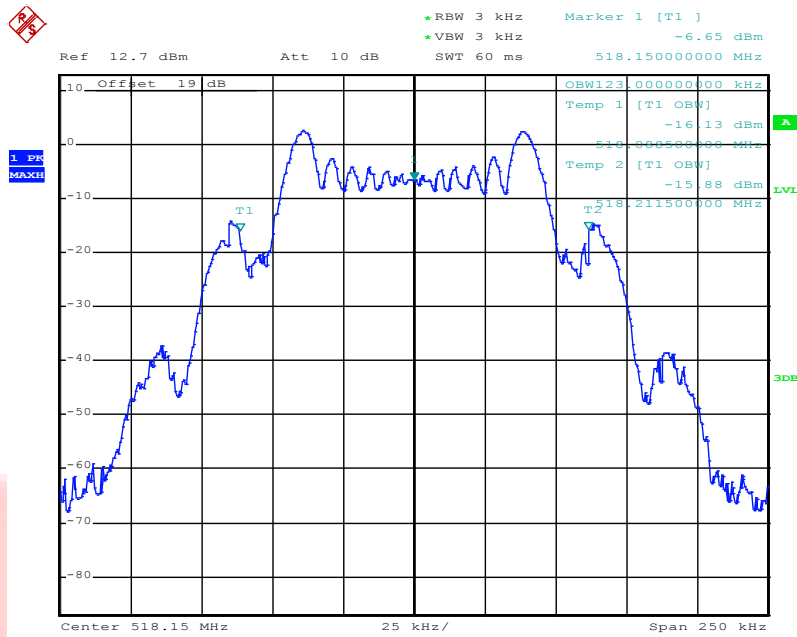


TEST RESULTS

Channel	99% dB bandwidth (kHz)	RESULT
N0	123.000	PASS
A4	94.500	PASS
F7	97.000	PASS

PLOTS OF THE MEASUREMENTS

CHANNEL NO



**TEST
4.**

UNWANTED RADIATION (SPECTRUM MASK)

REFERENCE DOCUMENT FCC 47 CFR§ 74.861 (e)(6)(i)(ii)

TEST SETUP	In according to ref std
TEST LOCATION	Radio test area
TEST METHOD	ANSI/TIA-603-C (2004) 2.2.11 FCC CFR 47 Part 2.1051
TYPE OF MEASUREMENT	CONDUCTED
TEST EQUIPMENT	Spectrum AnalyzerRohde&Schwarz mod. FSP40
TEST PERFORMED BY	Andrea Bortolotti
TESTING DATE	04/08/2015

TEST CONDITIONS:	MEASURED
Ambient temperature : 23°C±5°C	24 °C
Ambient humidity : 25 - 75 %rH	45%
Pressure : 85 - 106 kPa (860 mbar - 1060 mbar)	960 mbar
Voltage :	3Vdc

OPERATING CONDITION (Rif. Section 3) :#1(modulation type: Analog FM max 35kHz deviation)

TEST RESULTS: COMPLIANT

MEASUREMENT PARAMETER

Detector:	Peak
Sweep time:	Auto
Resolutionbandwidth:	3kHz
Video bandwidth:	3kHz
Span:	see plots
Trace-Mode:	Max. hold

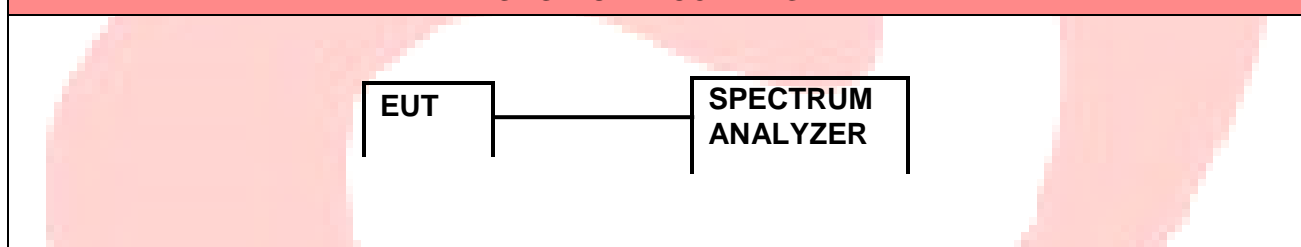
LIMITS

47 CFR § 74.861

The mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule:

- (i) On any frequency removed from the operating frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: at least 25 dB;
- (ii) On any frequency removed from the operating frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: at least 35 dB;
- (iii) On any frequency removed from the operating frequency by more than 250 percent of the authorized bandwidth: at least $43+10\log_{10}$ (mean output power in watts) dB.

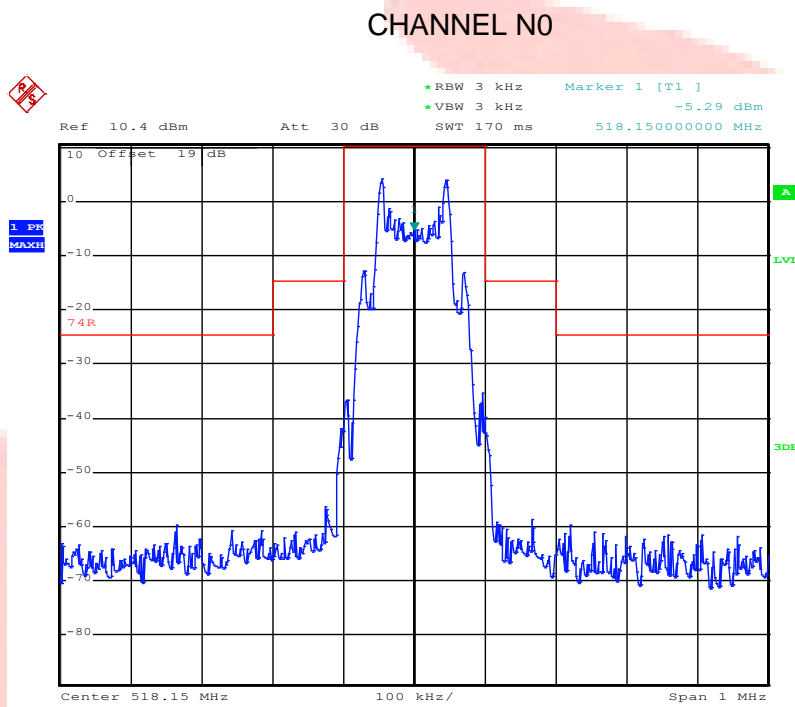
TEST SETUP BLOCK DIAGRAM



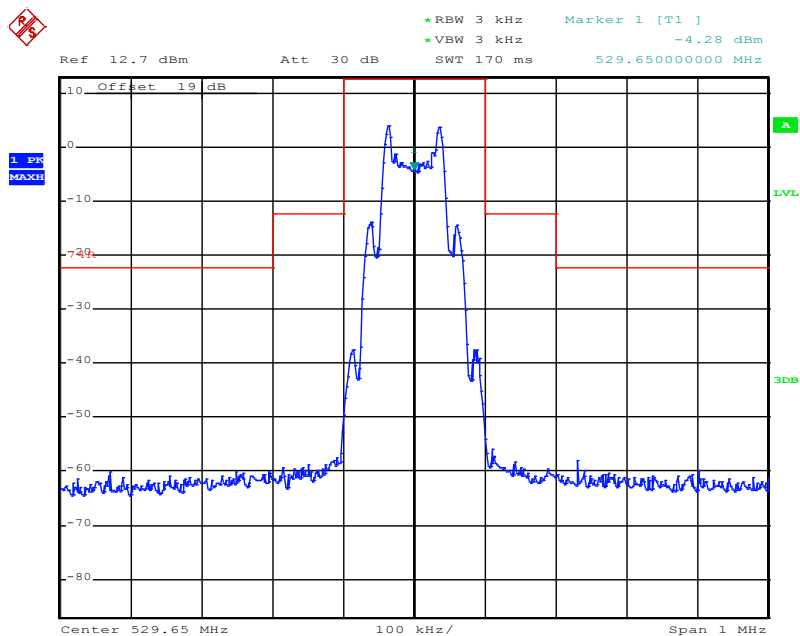
PLOTS OF THE MEASUREMENTS

Note: conducted output power measurement has been performed in order to set the properly reference level

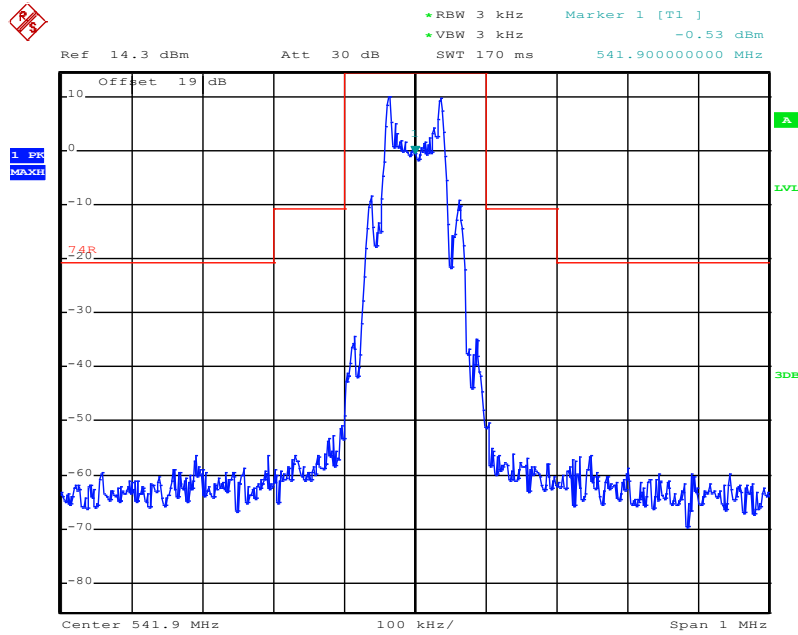
PLOTS OF THE MEASUREMENTS



CHANNEL A4



CHANNEL F7



**TEST
5.**

MODULATION CHARACTERISTICS

REFERENCE DOCUMENT FCC 47 CFR§ 74.861 (e)(3)

TEST SETUP	In according to ref std
TEST LOCATION	Radio test area
TEST METHOD	FCC CFR 47 Part 2.1047
TYPE OF MEASUREMENT	CONDUCTED
TEST EQUIPMENT	Audio Analyzer Rohde&Schwarz mod. UPD
TEST PERFORMED BY	Andrea Bortolotti
TESTING DATE	05/08/2015

TEST CONDITIONS:	MEASURED
Ambient temperature : 23°C±5°C	24 °C
Ambient humidity : 25 - 75 %rH	45%
Pressure : 85 - 106 kPa (860 mbar - 1060 mbar)	960 mbar
Voltage :	3Vdc

OPERATING CONDITION (Rif. Section 3) :#1 (modulation type: Analog FM max 35kHz deviation)

TEST RESULTS: COMPLIANT

LIMITS

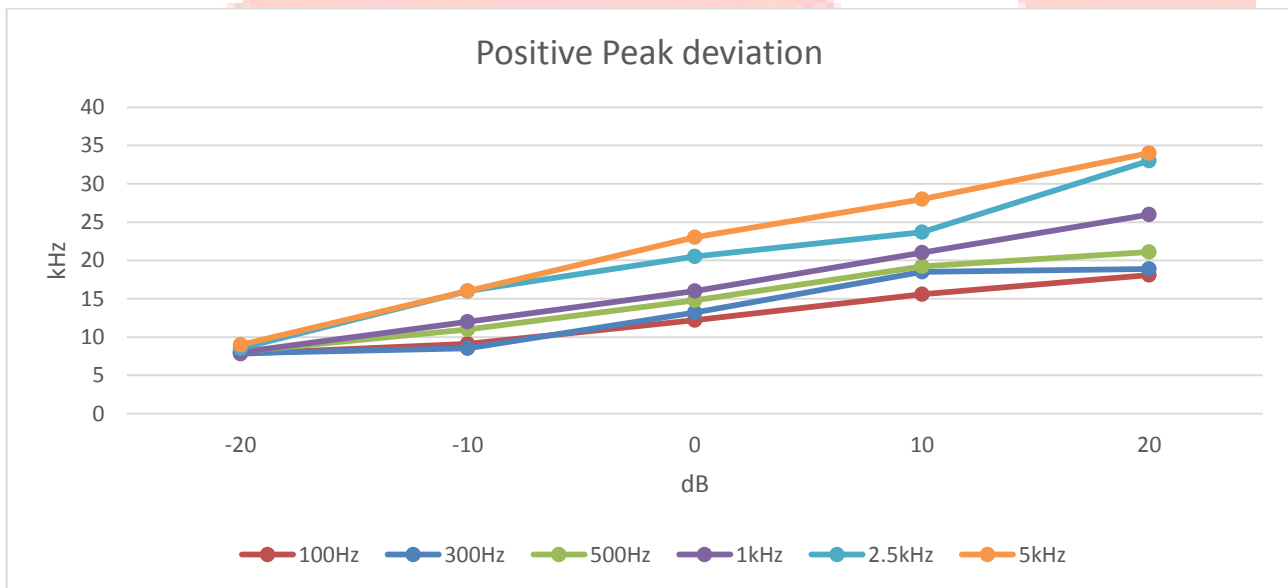
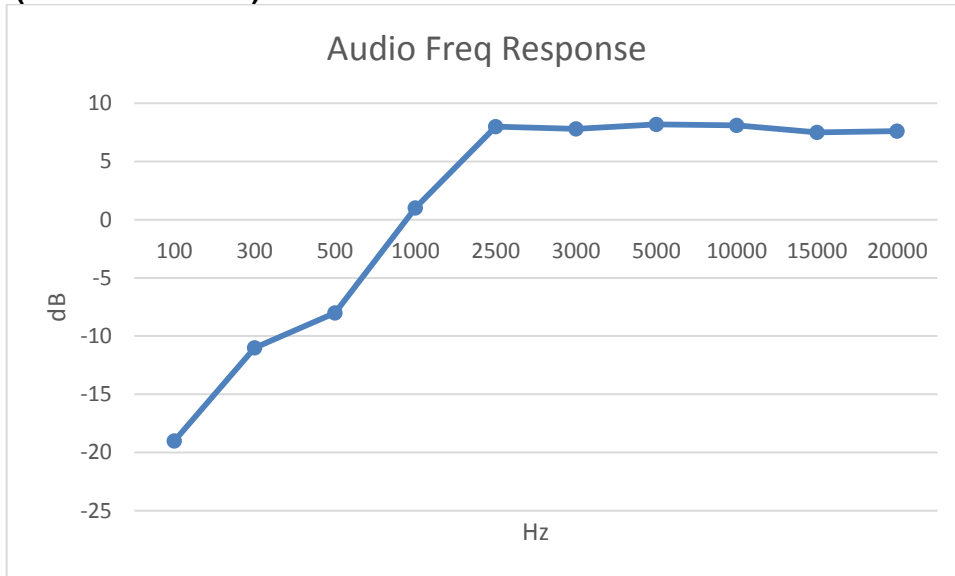
47 CFR § 74.861

TEST SETUP BLOCK DIAGRAM



TEST RESULTS

(A4 – Worst case)



RESULT: PASS

**TEST
6.**

RADIATED SPURIOUS EMISSIONS

REFERENCE DOCUMENT FCC 47 CFR§ 74.861 (e)(6)(iii)

TEST SETUP	In according to ref std
TEST LOCATION	Anechoic chamber with a conductive ground plane. Distance 3m
TEST METHOD	ANSI/TIA-603-C (2004) 2.2.12 FCC CFR 47 Part 2.1053
TYPE OF MEASUREMENT	RADIATED
TEST EQUIPMENT	EMI Receiver Rohde&Schwarz mod. ESU40 Bi-log antenna CHASE mod. CBL6111C Log-periodica Broadband Antenna R&S mod. HL050 Loop Antenna R&S mod. HFH2-Z2
TEST PERFORMED BY	Andrea Bortolotti
TESTING DATE	06/08/2015, 15/02/2016

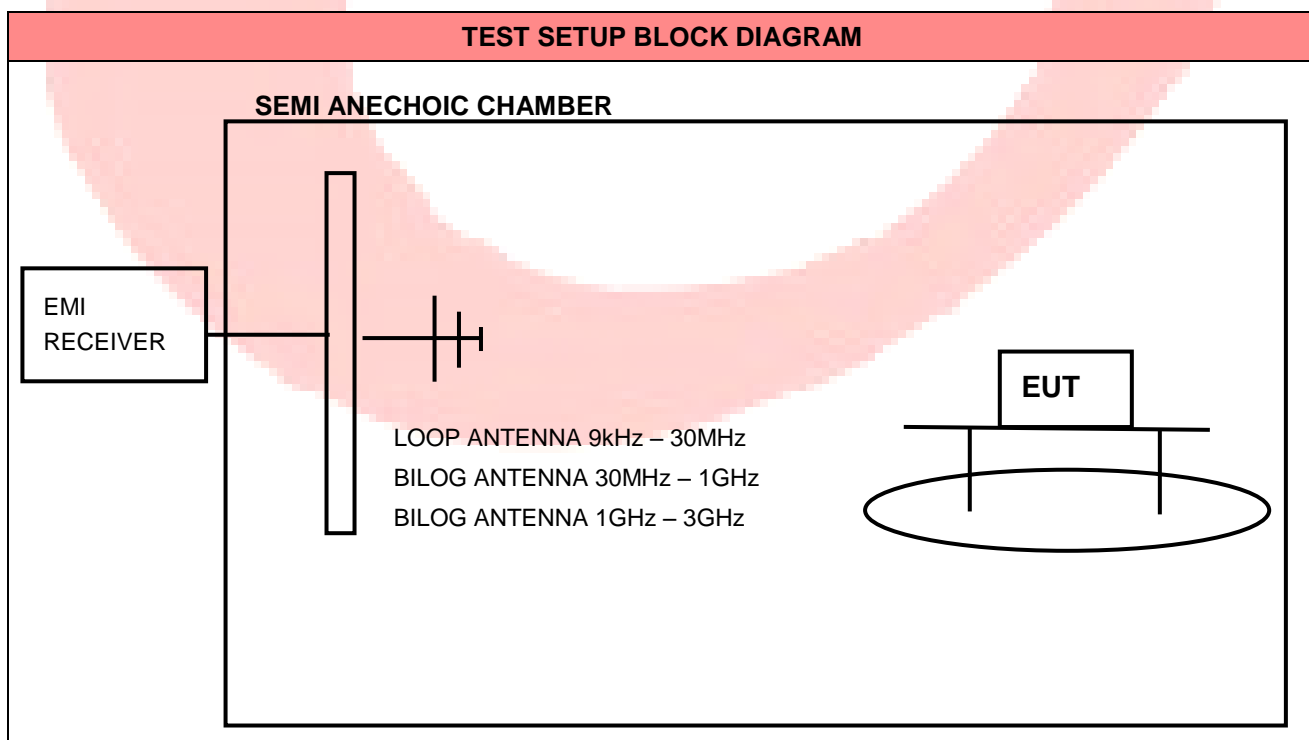
TEST CONDITIONS:	MEASURED
Ambient temperature : 23°C±5°C	24 °C
Ambient humidity : 25 - 75 %rH	45%
Pressure : 85 - 106 kPa (860 mbar - 1060 mbar)	960 mbar
Voltage :	3Vdc

OPERATING CONDITION (Rif. Section 3) :#1

TEST RESULTS: COMPLIANT

MEASUREMENT PARAMETER	
Detector:	Peak / Quasi Peak
Resolution bandwidth:	9kHz (f<150kHz) 100kHz (150kHz< f< 30MHz) 100kHz (30MHz< f <1GHz) 1MHz (f>1GHz)
Video bandwidth:	200Hz (f<150kHz) 9kHz (150kHz< f< 30MHz) 100kHz (30MHz< f <1GHz) 1MHz (f>1GHz)
Span:	see plots
Trace-Mode:	Max. hold

LIMITS
47 CFR § 74.861 (e)(6)(iii)
The mean power of emissions shall be attenuated below the mean output power of the transmitter in accordance with the following schedule: (i) On any frequency removed from the operating frequency by more than 50 percent up to and including 100 percent of the authorized bandwidth: at least 25 dB; (ii) On any frequency removed from the operating frequency by more than 100 percent up to and including 250 percent of the authorized bandwidth: at least 35 dB; (iii) On any frequency removed from the operating frequency by more than 250 percent of the authorized bandwidth: at least 43+10log10 (mean output power in watts) dB.



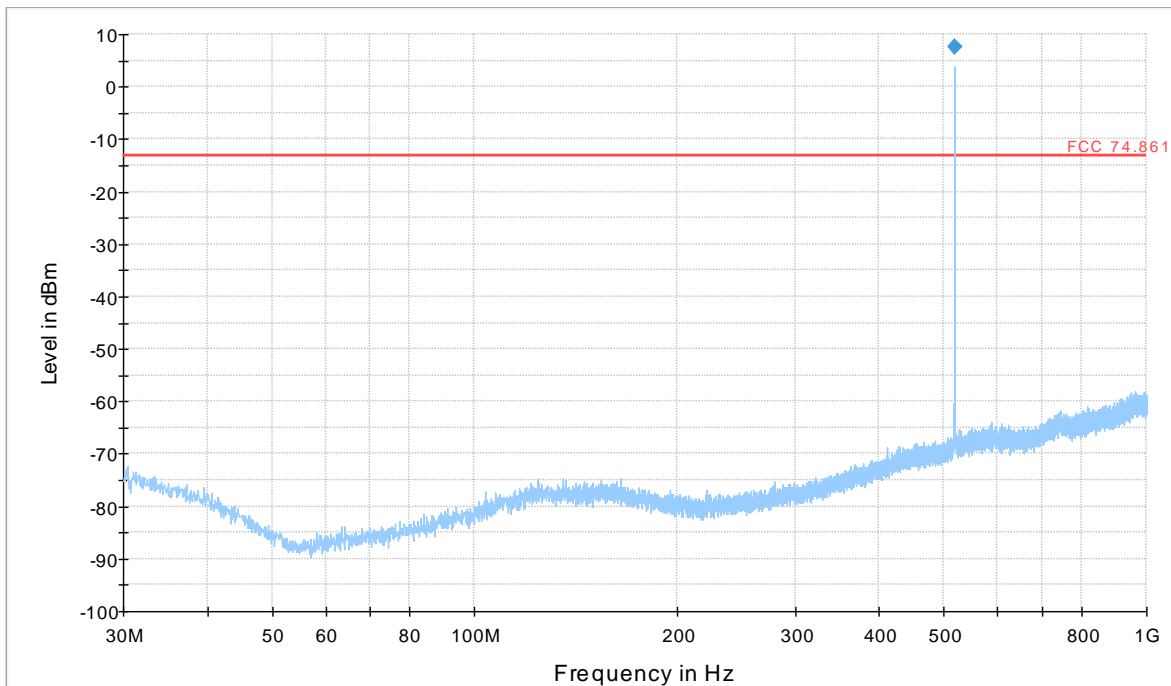
FREQUENCY RANGE 9kHz - 30MHz – N0

VERTICAL POLARIZATION

The amplitude of spurious emissions are attenuated more than 20 dB so the permissible value need not be reported

FREQUENCY RANGE 30MHz – 1GHz – N0

VERTICAL POLARIZATION



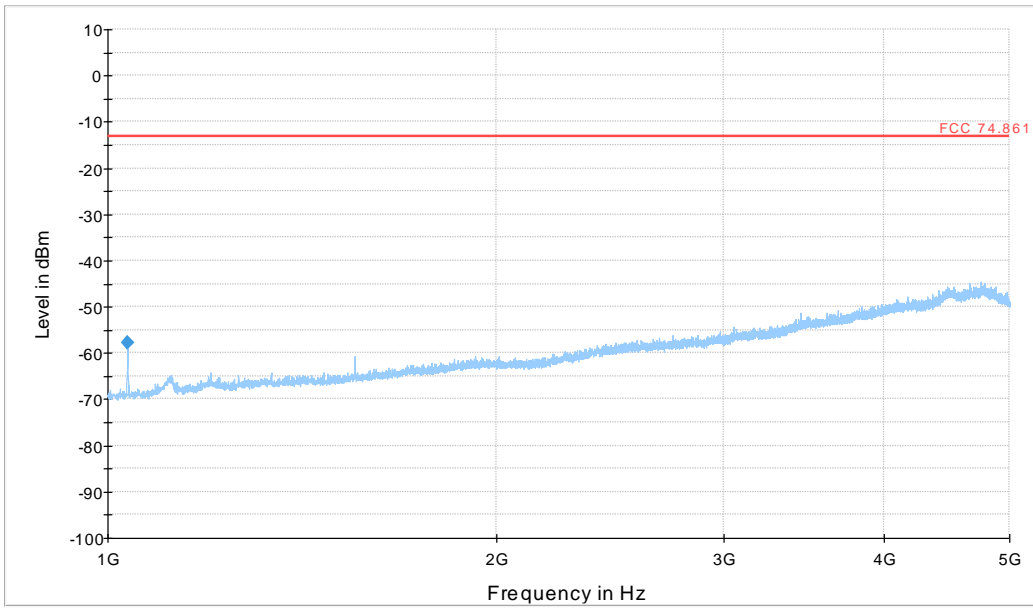
Blue trace Peak detector, Blue Marker Peak detector

Result Peak

Frequency (MHz)	Peak (dBm)	Height (cm)	Polarization	Azimuth (deg)	Limit (dBm)	Margin (dB)	Note
518.104000	7.5	104.0	V	2.0	-13.0	-20.5	Carrier

FREQUENCY RANGE 1GHz – 5GHz – N0

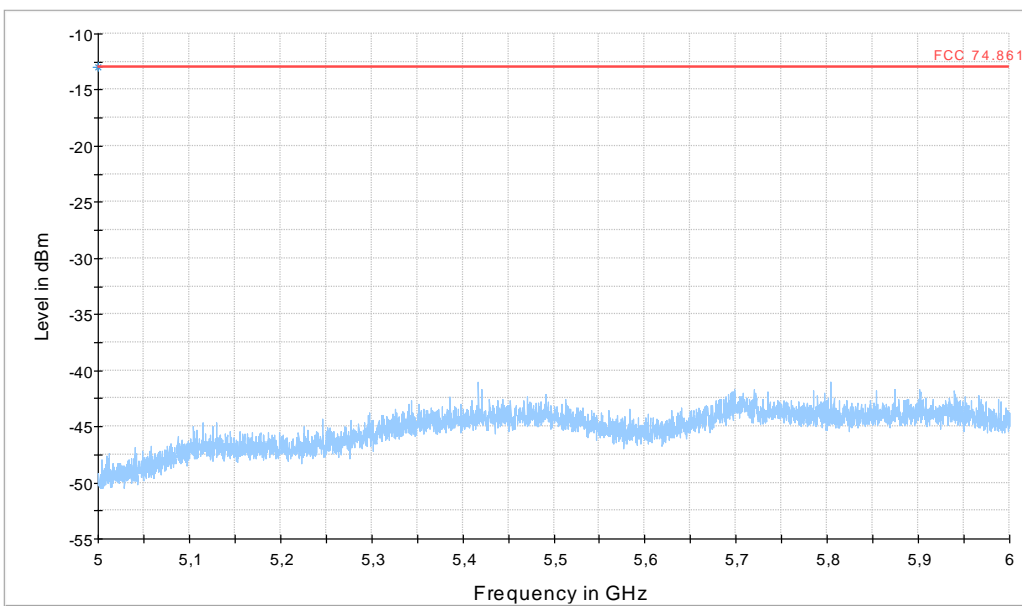
VERTICAL POLARIZATION



Blue trace Peak detector

FREQUENCY RANGE 5-6GHz – N0

VERTICAL POLARIZATION



Blue trace Peak detector

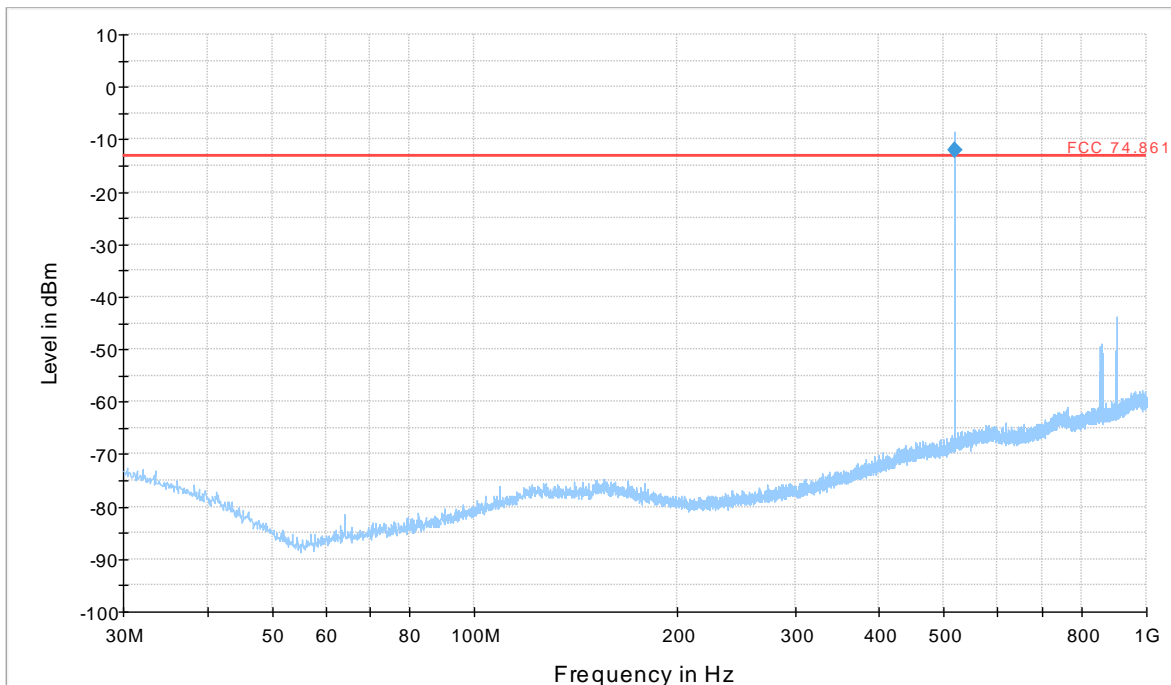
FREQUENCY RANGE 9kHz - 30MHz– N0

HORIZONTAL POLARIZATION

The amplitude of spurious emissions are attenuated more than 20 dB so the permissible value need not be reported

FREQUENCY RANGE 30MHz – 1GHz–N0

HORIZONTAL POLARIZATION



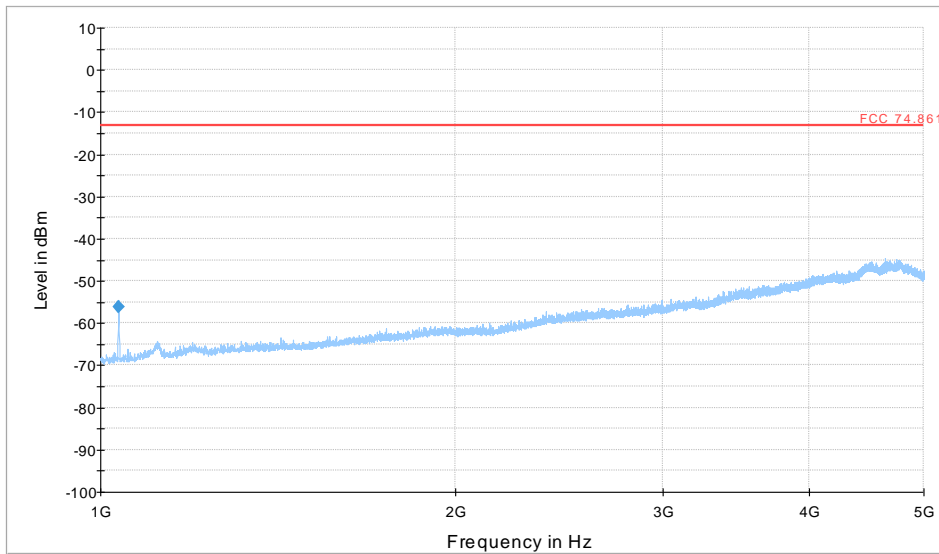
Blue trace Peak detector, Blue Marker Peak detector

Result Peak

Frequency (MHz)	Peak (dBm)	Height (cm)	Polarization	Azimuth (deg)	Limit (dBm)	Margin (dB)	Note
518.104000	-12.0	103.0	H	1.0	-13.0	-1.0	Carrier

FREQUENCY RANGE 1GHz – 5GHz – N0

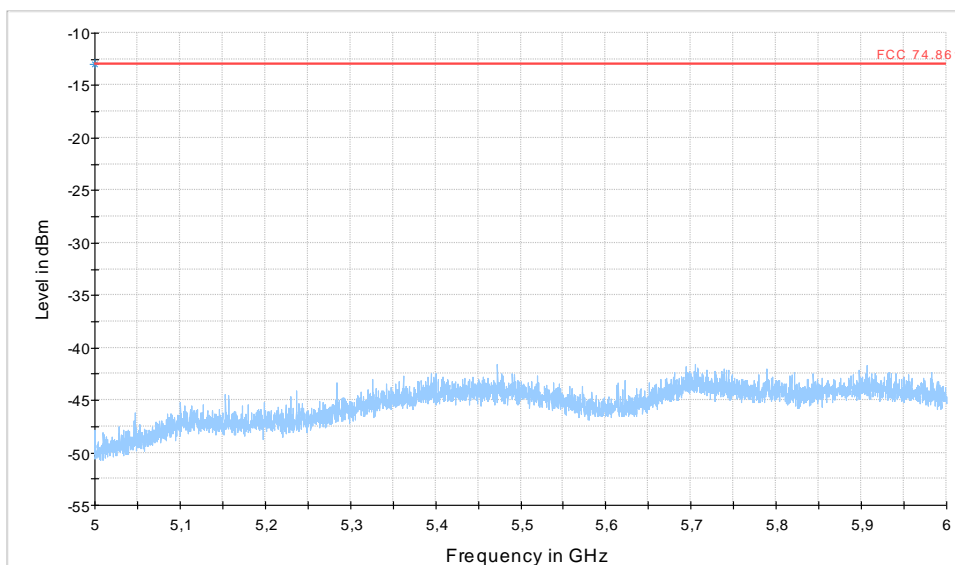
HORIZONTAL POLARIZATION



Blue trace Peak detector

FREQUENCY RANGE 5-6GHz – N0

HORIZONTAL POLARIZATION



Blue trace Peak detector

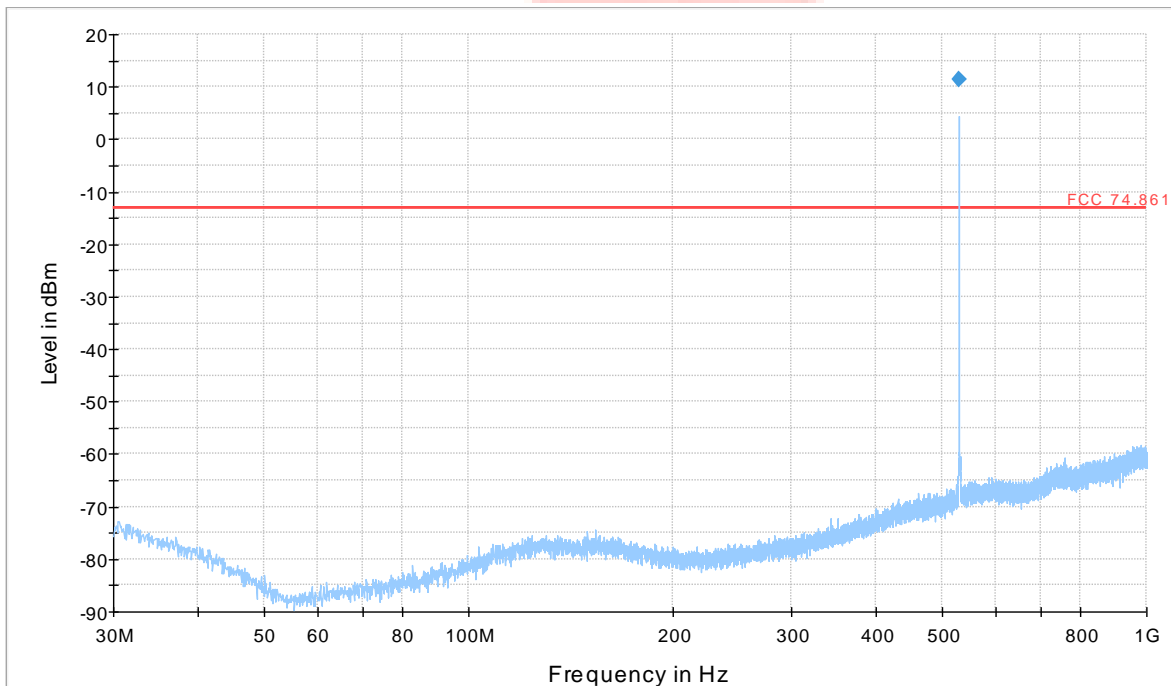
FREQUENCY RANGE 9kHz - 30MHz – A4

VERTICAL POLARIZATION

The amplitude of spurious emissions are attenuated more than 20 dB so the permissible value need not be reported

FREQUENCY RANGE 30MHz – 1GHz – A4

VERTICAL POLARIZATION



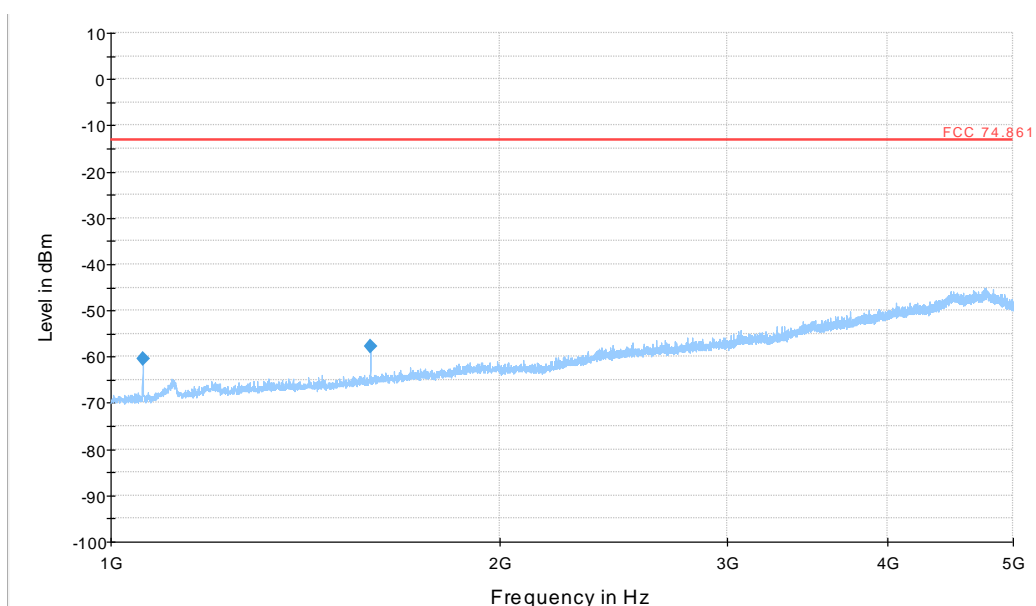
Blue trace Peak detector, Blue Marker Peak detector

Result Peak

Frequency (MHz)	Peak (dBm)	Height (cm)	Polarization	Azimuth (deg)	Limit (dBm)	Margin (dB)	Note
529.647000	11.3	103.0	V	175.0	-13.0	-24.3	Carrier

FREQUENCY RANGE 1GHz – 5GHz – A4

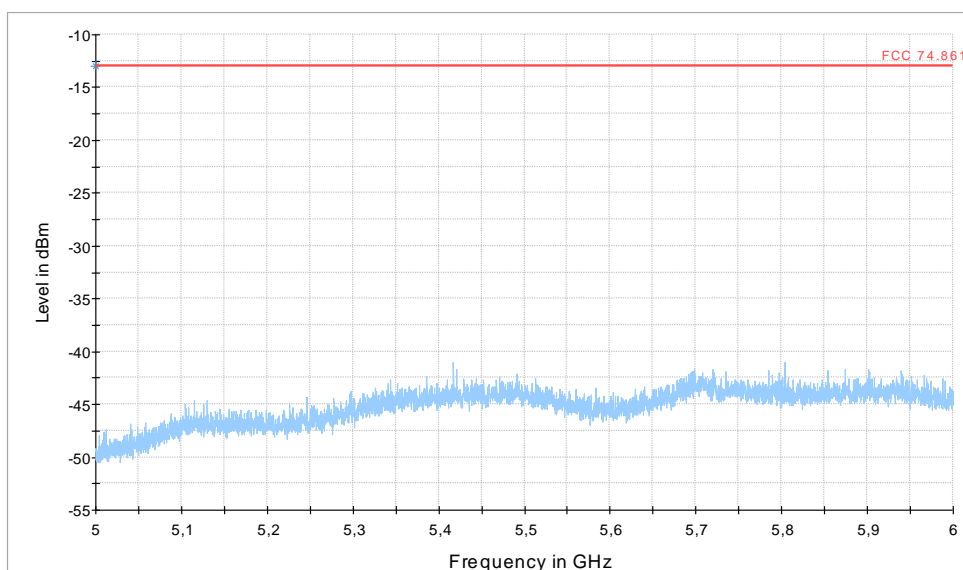
VERTICAL POLARIZATION



Blue trace Peak detector

FREQUENCY RANGE 5-6GHz – A4

VERTICAL POLARIZATION



Blue trace Peak detector

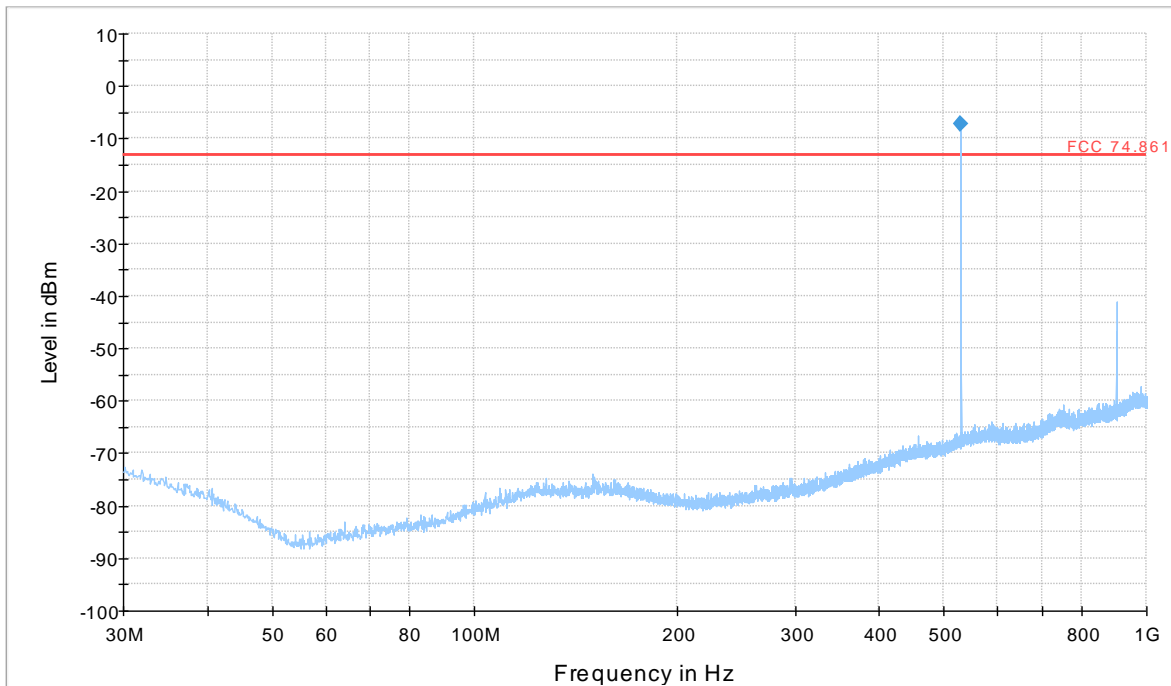
FREQUENCY RANGE 9kHz - 30MHz – A4

HORIZONTAL POLARIZATION

The amplitude of spurious emissions are attenuated more than 20 dB so the permissible value need not be reported

FREQUENCY RANGE 30MHz – 1GHz – A4

HORIZONTAL POLARIZATION



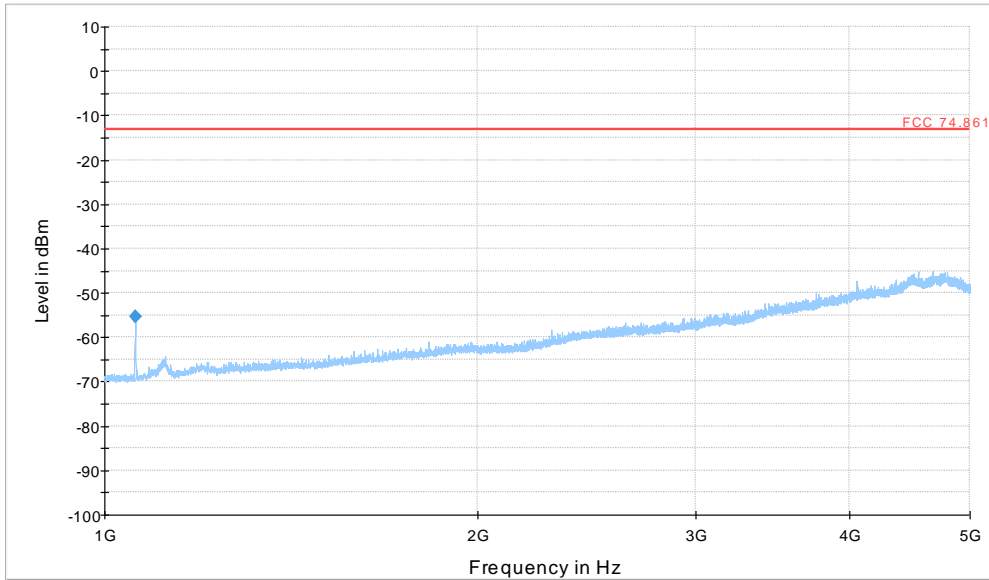
Blue trace Peak detector, Blue Marker Peak detector

Result Peak

Frequency (MHz)	Peak (dBm)	Height (cm)	Polarization	Azimuth (deg)	Limit (dBm)	Margin (dB)	Note
529.647000	-7.3	103.0	H	2.0	-13.0	-5.7	Carrier

FREQUENCY RANGE 1GHz – 5GHz – A4

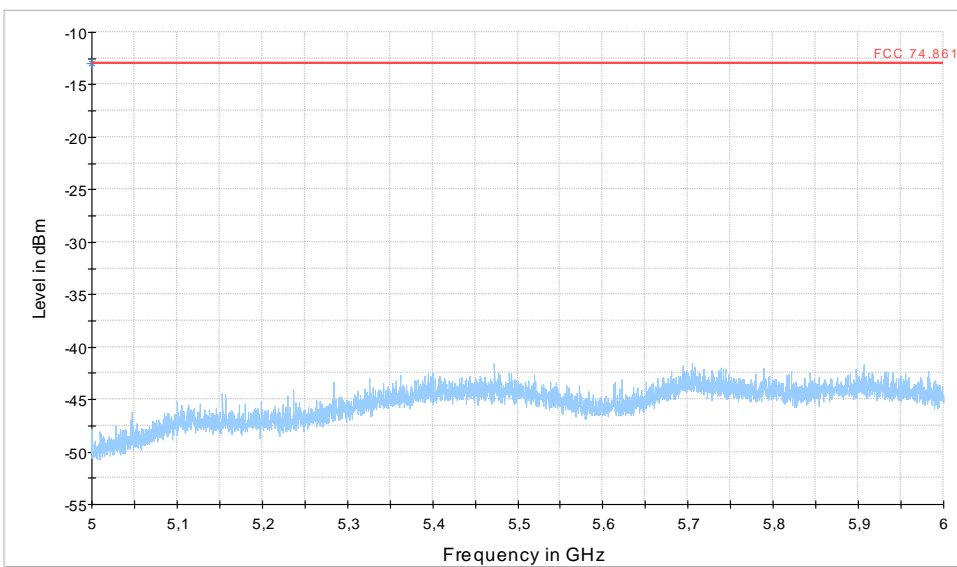
HORIZONTAL POLARIZATION



Blue trace Peak detector

FREQUENCY RANGE 5-6GHz – A4

HORIZONTAL POLARIZATION



Blue trace Peak detector

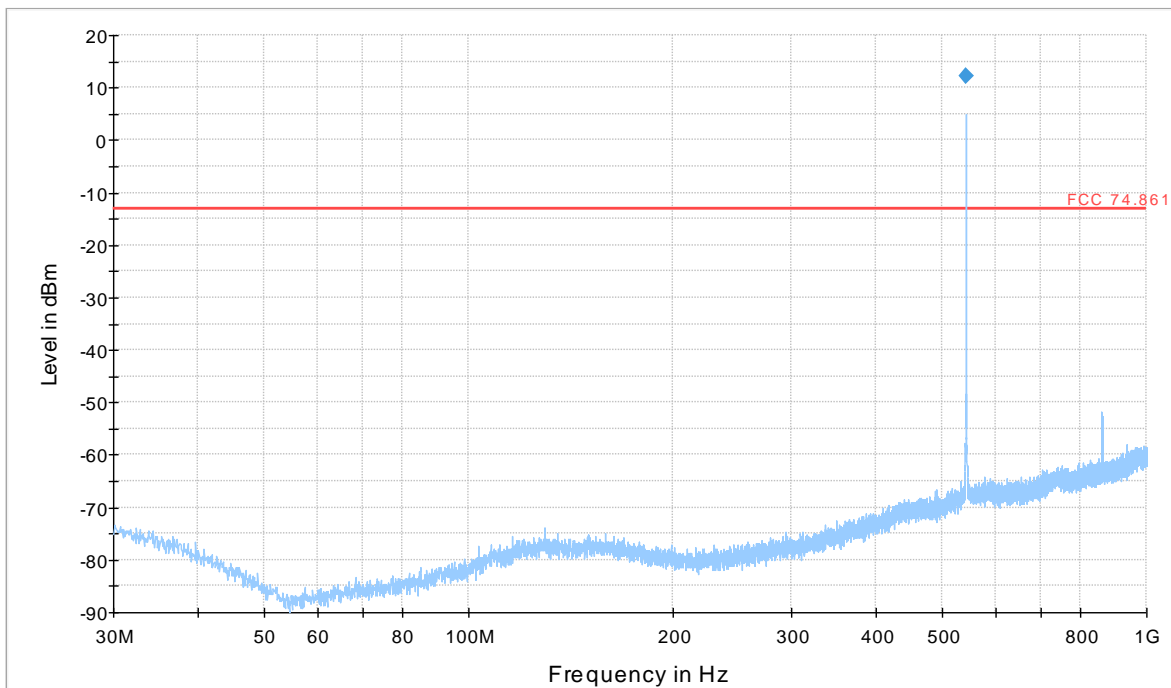
FREQUENCY RANGE 9kHz - 30MHz – F7

VERTICAL POLARIZATION

The amplitude of spurious emissions are attenuated more than 20 dB so the permissible value need not be reported

FREQUENCY RANGE 30MHz – 1GHz – F7

VERTICAL POLARIZATION



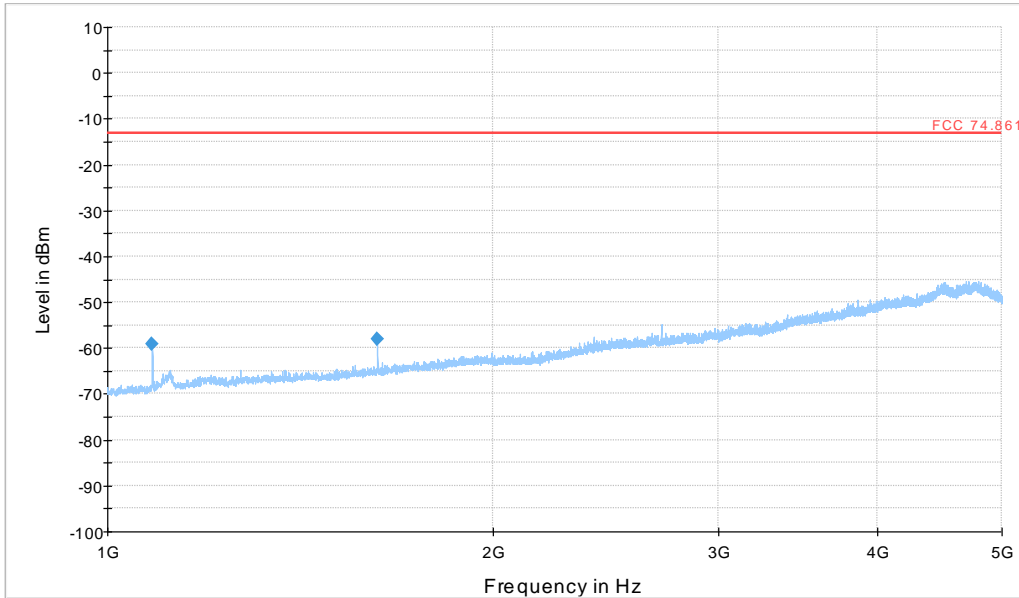
Blue trace Peak detector, Blue Marker Peak detector

Result – Peak

Frequency (MHz)	Peak (dBm)	Height (cm)	Polarization	Azimuth (deg)	Limit (dBm)	Margin (dB)	Note
541.869000	12.3	103.0	V	0.0	-13.0	-25.3	Carrier

FREQUENCY RANGE 1GHz – 5GHz – F7

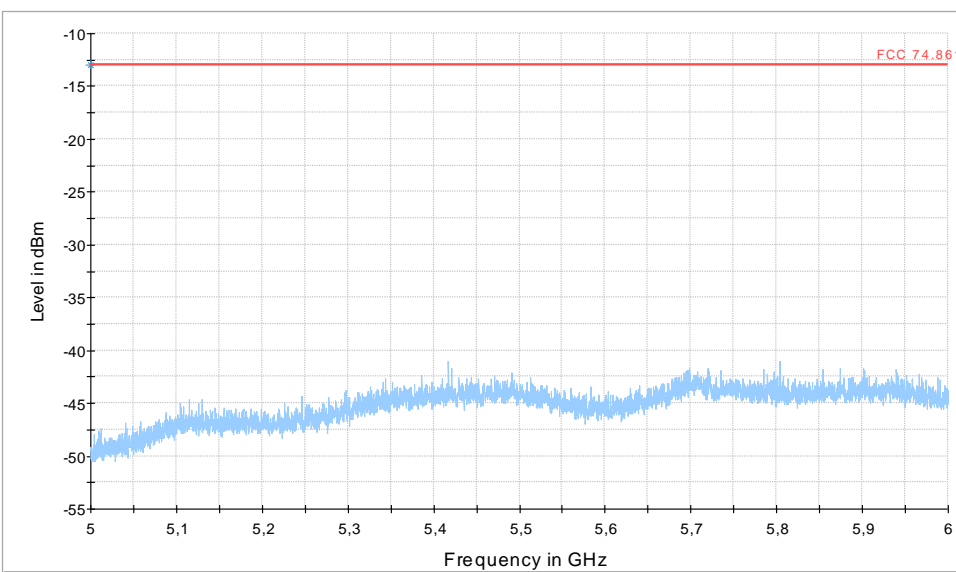
VERTICAL POLARIZATION



Blue trace Peak detector

FREQUENCY RANGE 5-6GHz – F7

VERTICAL POLARIZATION



Blue trace Peak detector

FREQUENCY RANGE 9kHz - 30MHz – F7

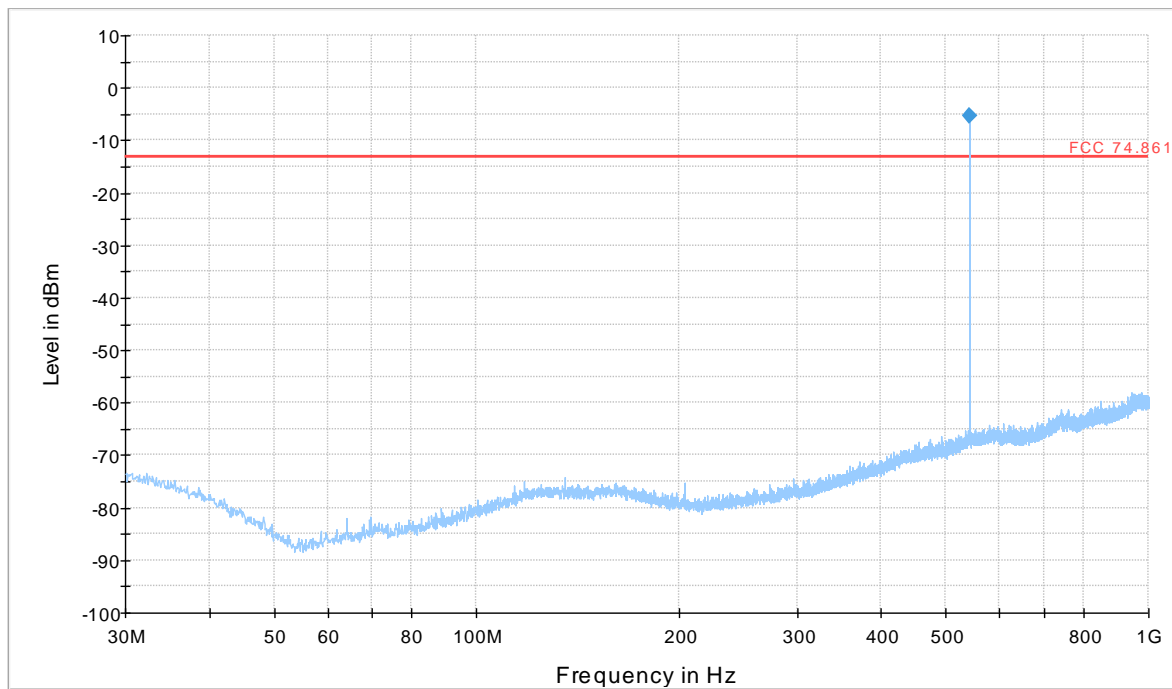
HORIZONTAL POLARIZATION

The amplitude of spurious emissions are attenuated more than 20 dB so the permissible value need not be reported

FREQUENCY RANGE 30MHz – 1GHz – F7

HORIZONTAL POLARIZATION

Blue trace Peak detector, Blue Marker Quasi-Peak detector; Green trace average detector, Green Marker average detector

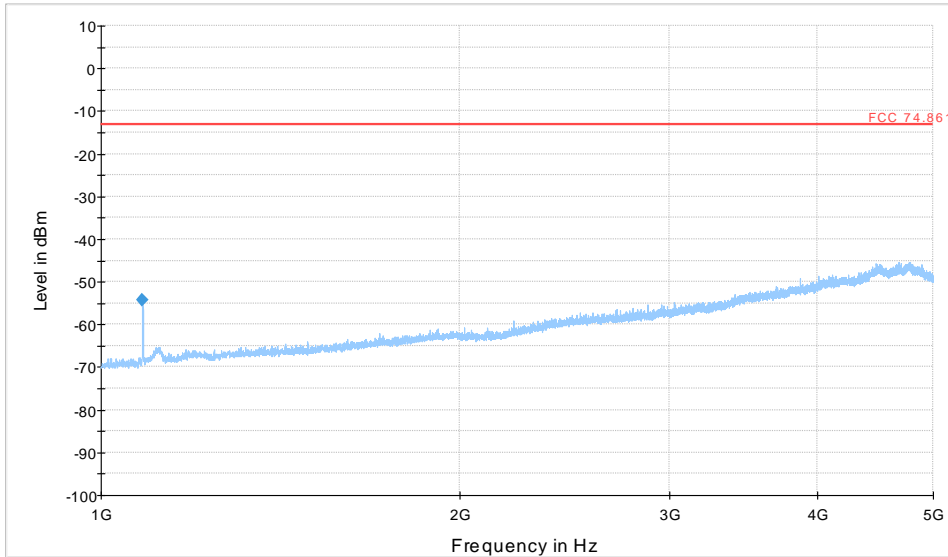


Result – Peak

Frequency (MHz)	Peak (dBm)	Height (cm)	Polarization	Azimuth (deg)	Limit (dBm)	Margin (dB)	Note
541.869000	-5.4	103.0	H	0.0	-13.0	-7.6	Carrier

FREQUENCY RANGE 1GHz – 5GHz – F7

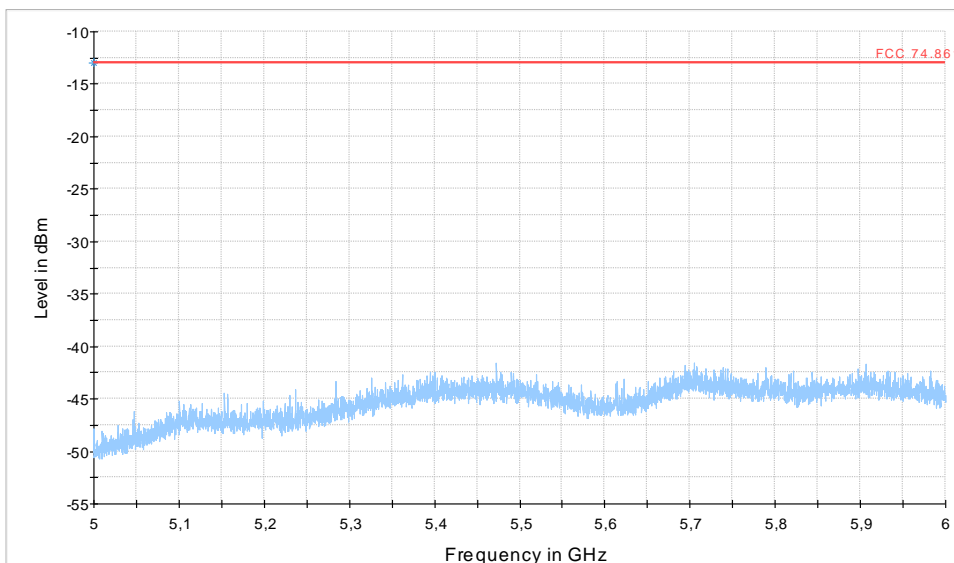
HORIZONTAL POLARIZATION



Blue trace Peak detector

FREQUENCY RANGE 5-6GHz – F7

HORIZONTAL POLARIZATION



Blue trace Peak detector

5 LIST OF EQUIPMENT USED

EQUIPMENT	IDENTIFICATION NUMBER	CAL. DUE	CAL. INTERVAL
EMI TEST RECEIVER	EMC.359	SEPT.2016	1 YEAR
RF SEMI-ANECHOIC CHAMBER (CSSA)	EMC.191	JAN. 2017	1 YEAR
AUDIO ANALYZER	TLC.006	FEB 2017	1 YEAR
BILOG ANTENNA	EMC.023	JUN 2016	3 YEAR
LOG PERIODICA ANTENNA	EMC.391	DEC 2016	3 YEAR
SPECTRUM ANALYZER	EMC.332	APR.2016	1 YEAR
CLIMATIC CHAMBER	EMC.110	APR 2016	1 YEAR

6 ANNEX 1: FREQUENCY CHANNEL LIST

Banda	1				
Margini	518MHz		542MHz		
Centro B.	530MHz				
Gruppo A	518,300MHz	CH0	Gruppo F	519,500 MHz	CH0
	519,325 MHz	CH1		522,775 MHz	CH1
	524,225 MHz	CH2		527,150 MHz	CH2
	526,375 MHz	CH3		528,200 MHz	CH3
	529,650 MHz	CH4		535,350 MHz	CH4
	537,225 MHz	CH5		538,125 MHz	CH5
	538,875 MHz	CH6		540,275 MHz	CH6
Gruppo B	541,550 MHz	CH7	541,900 MHz	CH7	
	518,875 MHz	CH0	Gruppo H	518,700 MHz	CH0
	520,600 MHz	CH1		521,925 MHz	CH1
	524,550 MHz	CH2		523,000 MHz	CH2
	526,800 MHz	CH3		531,000 MHz	CH3
	529,650 MHz	CH4		532,575 MHz	CH4
	536,975 MHz	CH5		536,300 MHz	CH5
538,075 MHz	CH6	538,425 MHz		CH6	
Gruppo C	541,500 MHz	CH7	541,100 MHz	CH7	
	518,725 MHz	CH0	Gruppo J	519,825 MHz	CH0
	519,875 MHz	CH1		524,025 MHz	CH1
	523,525 MHz	CH2		528,950 MHz	CH2
	525,675 MHz	CH3		530,825 MHz	CH3
	528,825 MHz	CH4		536,825 MHz	CH4
	536,750 MHz	CH5		539,425 MHz	CH5
538,400 MHz	CH6	540,475 MHz		CH6	
Gruppo D	541,050 MHz	CH7	Gruppo L	519,200 MHz	CH0
	519,850 MHz	CH0		523,675 MHz	CH1
	522,950 MHz	CH1		526,850 MHz	CH2
	527,125 MHz	CH2		531,850 MHz	CH3
	528,175 MHz	CH3		537,375 MHz	CH4
	534,900 MHz	CH4		538,800 MHz	CH5
	537,500 MHz	CH5		541,075 MHz	CH6
Gruppo E	539,575 MHz	CH6	Gruppo N	518,150 MHz	CH0
	541,125 MHz	CH7		521,725 MHz	CH1
	518,425 MHz	CH0		524,075 MHz	CH2
	519,625 MHz	CH1		528,175 MHz	CH3
	523,625 MHz	CH2		535,400 MHz	CH4
	526,475 MHz	CH3		537,250 MHz	CH5
	528,275 MHz	CH4		540,250 MHz	CH6