



TEST REPORT Nr. R22159501

Federal Communication Commission (FCC)

Report Reference No.	R22159501
Date of issue:	28.09.2022
Total number pages:	66
Customer name	Caen RFID S.r.l.
Address	Via Vetraia, 11 – 55049 Viareggio (LU) – Italy
Test specification:	
Standards	FCC Rules & Regulations, Title 47:2021 Part 15 paragraph(s): 203, 204, 205, 207, 209, 215 and 247
Non-standard test method	N/A
Test Report Form No.	15-247_HoppingCMC
Test Report Form(s) Originator ...	CMC Centro Misure Compatibilità S.r.l.
Master TRF	2022-09
General disclaimer:	
The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of CMC Centro Misure Compatibilità S.r.l.	
(*) Test item description	R3100C – Lepton3 – 25dBm 1-Port RAIN RFID Reader Module
(*) Trademark	Caen RFID
(*) Manufacturer	Caen RFID S.r.l.
(*) Model / Type reference	R3100C – Lepton3 – 25dBm 1-Port RAIN RFID Reader Module
(*) FCC ID	UVECAENRFID035
(*) Rating(s)	5 Vdc
Report	
Tested by (name + signature)	M. Segalla 
Approved by (name + signature)	F. Marena 

(*) information provided by the customer

1	Summary	
1	Summary.....	2
2	Reference standard	3
3	List of attachments.....	3
4	Deviation(s) from test specification.....	3
5	Testing location.....	3
6	General description of tested item and testing condition(s)	5
6.1	Photos of the test item.....	6
7	Verdict summary section	8
8	Test conditions.....	10
8.1	General.....	10
9	Test results	11
9.1	Antenna requirements	11
9.2	Conducted emission	12
9.3	Emissions in restricted frequency bands and in unrestricted frequency bands	18
9.4	20 dB bandwidth.....	38
9.5	Channel separation	41
9.6	Number of hopping channels.....	44
9.7	Time of occupancy	47
9.8	Band edge	50
9.9	Peak Output Power	54

2 Reference standard	
FCC Rules and Regulation Title 47 part 15:2021	--
3 List of attachments	
Attachment 1: Instruments list, measurement uncertainty, judgement of compliance and quality manual references	
4 Deviation(s) from test specification	
None	
5 Testing location	
CMC Centro Misure Compatibilità S.r.l. Via della Fisica, 20 – 36016 Thiene (VI) – Italy Test site facility's FCC registration number: 182474	

<i>Revision index</i>	<i>Date</i>	<i>Change history</i>
1.0	28.09.2022	--

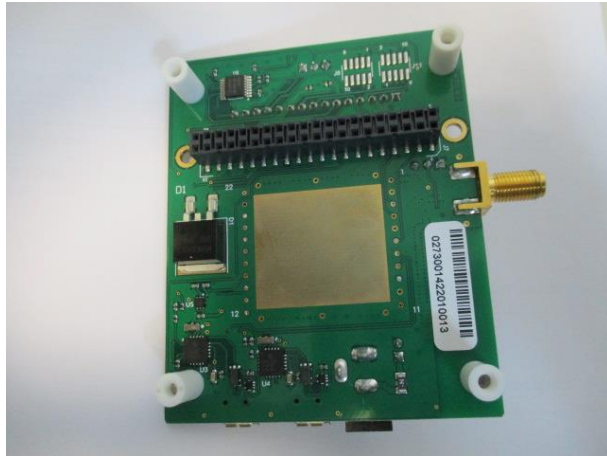
Testing and sampling:	
Date of receipt of test item	20.07.2022
Testing start date	27.09.2022
Testing end date	27.09.2022
Sampling procedure	Equipment used for testing was picked up by the customer
Internal identification	Adhesive label with the product number P220755
General remarks:	
<p>This report shall not be reproduced, except in full, without the written approval of CMC. The test results presented in this report relate only to the object tested. "(see appended table)": refers to a table appended to the report. Throughout this report a comma is used as the decimal separator.</p>	
Possible test case verdicts:	
Test case does not apply to the test object:	N/A (Not Applicable)
Test object does meet the requirement:	P (Pass)
Test object does not meet the requirement:	F (Fail)
Test object does not performed:	N/E (Not Executed)
Definition of symbols used in this test report:	
<input checked="" type="checkbox"/> Indicates that the listed condition, standard or equipment is applicable for this report. <input type="checkbox"/> Indicates that the listed condition, standard or equipment is not applicable for this report.	

6 General description of tested item and testing condition(s)

Description	R3100C – Lepton3 – 25dBm 1-Port RAIN RFID Reader Module							
Model Number	R3100C – Lepton3 – 25dBm 1-Port RAIN RFID Reader Module							
FCC ID	UVECAENRFID035							
Serial Number	0273001422050011							
Brand name	Caen RFID							
Frequency band	902 – 928 MHz							
Nominal frequencies	FL: 902,75 MHz	FM: 914,75 MHz			FH: 927,25 MHz			
Test power supply	Voltage and Frequency			Reference poles				
				N	L1	L2	L3	PE
	<input type="checkbox"/>	AC:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	AC:		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input checked="" type="checkbox"/>	DC: 5 V						<input type="checkbox"/>
Software version	FW 1.0.0							
Pseudo randomly ordered list of hopping frequencies	See document R3100C_Operational_Description							
Type of equipment	<input checked="" type="checkbox"/> Transmitter unit <input type="checkbox"/> Receiver unit							
Type of station	<input type="checkbox"/> Portable station <input checked="" type="checkbox"/> Mobile station							
Test arrangements of EUT	<i>Intended operational arrangement(s) of EUT</i>			<i>Test arrangement (see basic standard)</i>				
	<input type="checkbox"/>	Table-top only			Table-top			
	<input type="checkbox"/>	Floor-standing only			Floor-standing			
	<input type="checkbox"/>	Can be floor-standing or table-top			Table-top			
	<input type="checkbox"/>	Rack mounted			In rack or table-top			
	<input checked="" type="checkbox"/>	Other, for example wall mounted, ceiling mounted, handheld, body worn			Table-top			
Operating modes	No.	Operating mode of test item						
	1	EUT in continuous transmission at maximum power						
Declination of responsibility	<p>Information relating to the description of the sample, components list and software/hardware version (if reported) are provided by the customer. CMC Centro Misura Compatibilità S.r.l. cannot be considered responsible for these information, for any other document sent by the customer and for any difference between the software version present in the tested sample and that present in the object intended for final sale.</p> <p>In some cases, the software in the tested sample is in a version dedicated exclusively to the test, and therefore does not represent the software installed in the final version of the product.</p>							

6.1 Photos of the test item





7 Verdict summary section

FCC Rules & Regulations, Title 47:2021			
Part 15 paragraph(s): 203, 204, 205, 207, 209, 215 and 247			
Clause	Requirement – Test case	Basic standard	Verdict
Part 15.247 (a) (1)	Pseudo randomly ordered list of hopping frequencies	--	P
Part 15.203	Antenna requirements	ANSI C63.10	P
Part 15.207	Conducted emissions	ANSI C63.10	P
Part 15.209	Radiated emissions and spurious emission	ANSI C63.10	P
Part 15.247	20 dB Bandwidth	ANSI C63.10	P
Part 15.247	Channel Separation	ANSI C63.10	P
Part 15.247	Number of Hopping Channel	ANSI C63.10	P
Part 15.247	Time of occupancy	ANSI C63.10	P
Part 15.247	Band edge	ANSI C63.10	P
Part 15.209 and 15.247	Peak Output Power	ANSI C63.10	P

Normative references	
Reference no.	Description
FCC Rules and Regulation Title 47 part 15:2021	--
KDB 558074 D01 15.247 Meas Guidance v05r02	Guidance for compliance measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices operating under section 15.247 of the FCC rules
ANSI C63.4:2014	American National Standard for Methods of Measuring of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz – 40 GHz
ANSI C63.10:2013	American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices

8 Test conditions

8.1 General

Environmental reference conditions..... :	The climatic conditions during the tests are within the limits specified by the manufacturer for the operation of the EUT and the test equipment. The climatic conditions during the tests were within the following limits:		
	Temperature	Humidity	Atmospheric pressure
	15 °C – 35 °C	30 % - 60 %	800 hPa – 1060 hPa
	If explicitly required in the basic standard or applied product standard the climatic values are recorded and documented separately in this test report.		
Measurement uncertainties :	Attachment 1		

9 Test results

9.1 Antenna requirements

Tested by	M. Segalla	
Test date	27.09.2022	
Reference standards.....	FCC Rules and Regulation; Titles 47 Part. 15.203 and 15.204	
Test specification	<p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§ 15.211, 15.213, 15.217, 15.219, 15.221, or § 15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded</p>	
Antenna type	<input type="checkbox"/>	Integral antenna
	<input checked="" type="checkbox"/>	External antenna
Antenna gain	5,5 dBi	
External R.F. power amplifier.....	Not Present	

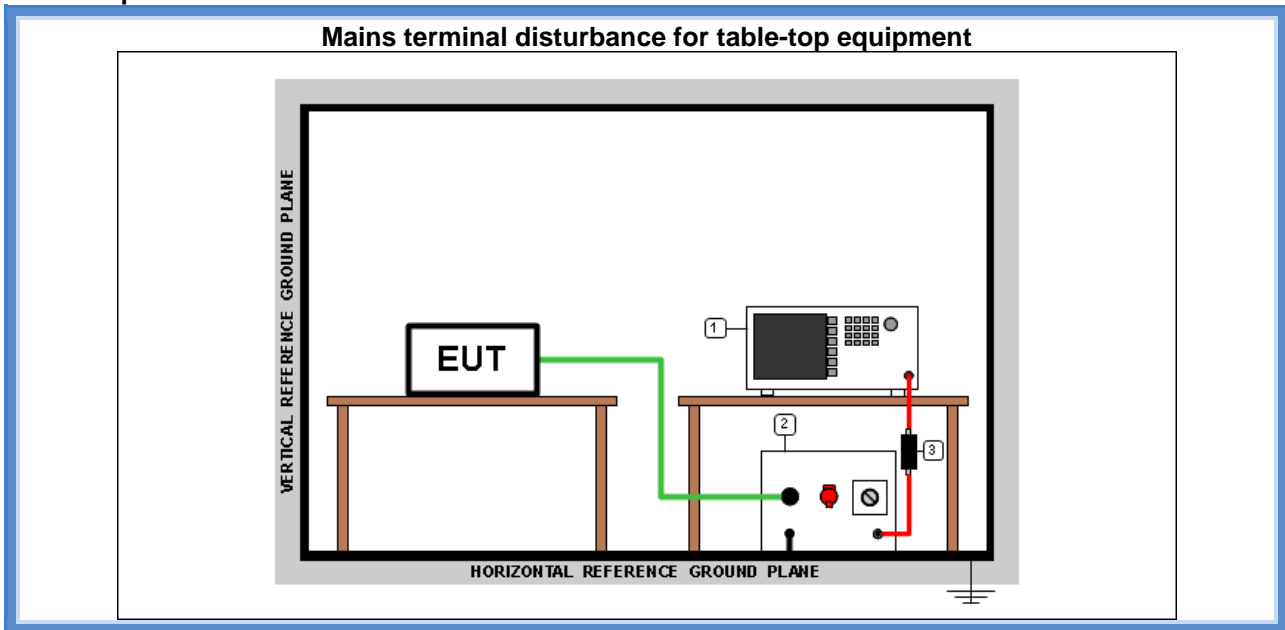
9.2 Conducted emission

Tested by	M. Segalla	
Test date	27.09.2022	
Test location (stand).....	Shielded chamber (CMC A001)	
Reference standards.....	FCC Rules and Regulation; Titles 47 Part. 15.207 ANSI C63.10 cl. 6.2	
Test set-up description.....	<input checked="" type="checkbox"/>	Table top equipment set-up (80 cm above the reference ground plane)
	<input type="checkbox"/>	Floor standing equipment set-up (insulating material up to 12 mm thick)
	<input type="checkbox"/>	False floor installation equipment set-up (insulating material up to 34 cm above the reference ground plane)
Supplementary Test set-up description.....	--	
Test method applied.....	<input checked="" type="checkbox"/>	Artificial mains network, 50 μ H/50 Ω LISN
	<input type="checkbox"/>	Other:

Acceptance limits

<i>Frequency range (MHz)</i>	<i>dB(μV) Quasi-peak</i>	<i>dB(μV) Average</i>
0,15 to 0,50	66 to 56	56 to 46
0,5 to 5	56	46
5 to 30	60	50

Test setup



Test setup PE001_01

Nr.	Id. Number	Manufacturer	Model	Description
3	CMC S010	Rohde & Schwarz	ESH3-Z2	Pulse limiter
2	CMC S200	Schwarzbeck	NSLK 8128	V-LISN
1	CMC S206	Rohde & Schwarz	ESCI 7	EMC Receiver 9KHz-7GHz

Result

Line	Frequency Range (MHz)	Graphs	Remarks	Result
L1	0,15 – 30	G22159516	--	P
N	0,15 – 30	G22159517	--	P

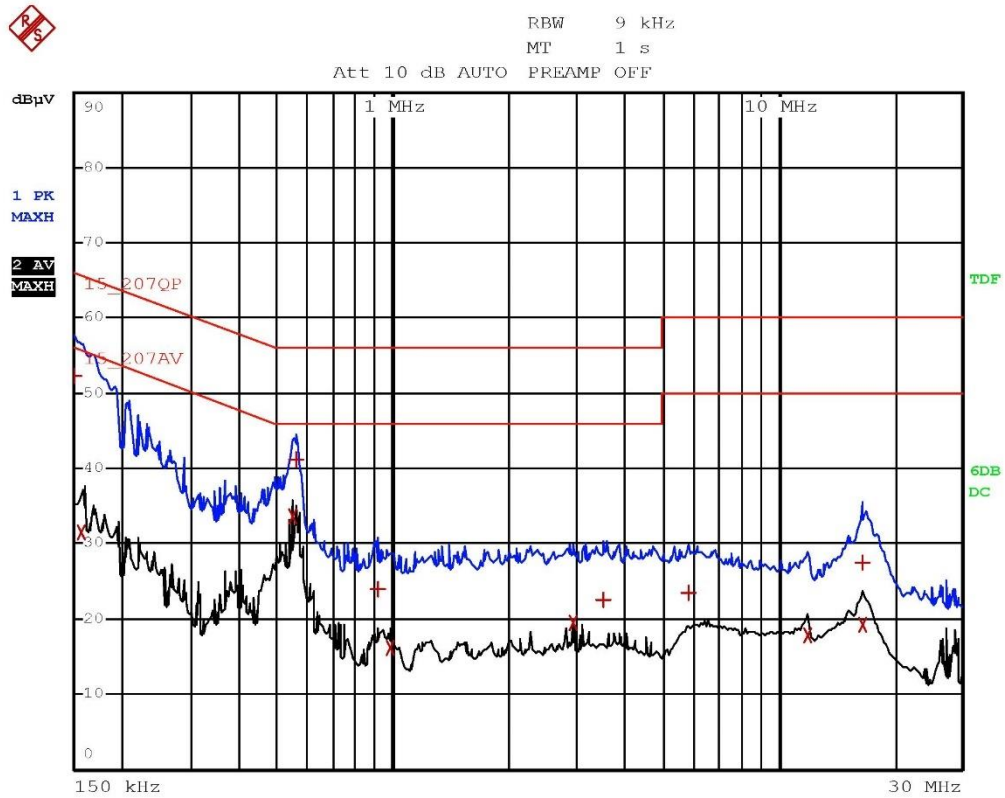
Remarks: tests performed on 120 Vac side of AC/DC adapter

Graphs Legend

PK: Peak; QP [1s] (quasi-peak at 1 second) values are marked with a +

AV: Average; AV [1s] (average at 1 second) values are marked with a X

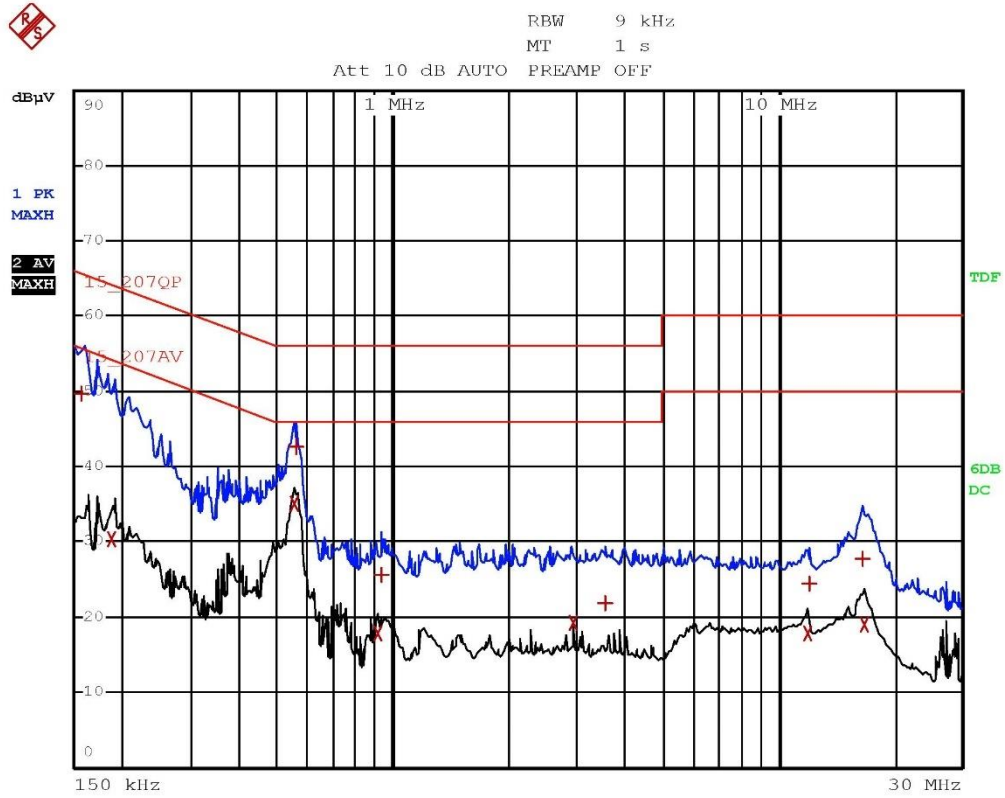
Graphs



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EDIT PEAK LIST (Final Measurement Results)				
Trace1:	15_207QP			
Trace2:	15_207AV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dB μ V	DELTA LIMIT dB	
1 Quasi Peak	150 kHz	52.37	-13.62	
2 Average	158 kHz	31.57	-23.98	
2 Average	550 kHz	33.70	-12.29	
1 Quasi Peak	558 kHz	41.11	-14.88	
1 Quasi Peak	918 kHz	24.04	-31.96	
2 Average	982 kHz	16.15	-29.84	
2 Average	2.954 MHz	19.45	-26.54	
1 Quasi Peak	3.53 MHz	22.46	-33.53	
1 Quasi Peak	5.838 MHz	23.44	-36.55	
2 Average	11.95 MHz	17.83	-32.17	
1 Quasi Peak	16.506 MHz	27.48	-32.51	
2 Average	16.634 MHz	19.14	-30.85	

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EDIT PEAK LIST (Final Measurement Results)				
Trace1:	15_207QP			
Trace2:	15_207AV			
Trace3:	---			
TRACE	FREQUENCY	LEVEL dBµV	DELTA LIMIT dB	
1 Quasi Peak	158 kHz	49.69	-15.87	
2 Average	190 kHz	30.44	-23.59	
2 Average	554 kHz	35.00	-10.99	
1 Quasi Peak	562 kHz	42.59	-13.40	
2 Average	918 kHz	17.73	-28.26	
1 Quasi Peak	938 kHz	25.55	-30.44	
2 Average	2.954 MHz	19.29	-26.70	
1 Quasi Peak	3.578 MHz	21.75	-34.24	
2 Average	11.966 MHz	17.77	-32.22	
1 Quasi Peak	12.05 MHz	24.33	-35.66	
1 Quasi Peak	16.53 MHz	27.80	-32.19	
2 Average	16.718 MHz	19.11	-30.88	

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9.3 Emissions in restricted frequency bands and in unrestricted frequency bands

Tested by	M. Segalla	
Test date	27.09.2022	
Test location (stand)	Semi-anechoic chamber (CMC A070)	
Reference standards.....	FCC Rules and Regulation; Titles 47 Part. 15.209 ANSI C63.10 cl. 6.3, 6.4, 6.5 and 6.6	
Test set-up description.....	<input checked="" type="checkbox"/>	Table top equipment set-up (80 cm above the reference ground plane)
	<input type="checkbox"/>	Floor standing equipment set-up (insulating material up to 12 mm thick)
	<input type="checkbox"/>	False floor installation equipment set-up (insulating material up to 34 cm above the reference ground plane)
Supplementary test set-up description.....	--	
Test method applied	SAC with measurement distance [m]: 10	
Supplementary information	--	

Acceptance limits

Acceptance limits for emissions in restricted frequency bands ($f < 1000$ MHz)

Frequency range (MHz)	Test distance (m)	Limits [dB(μ V/m)]
0,009 to 0,490	300	48,5 to 13,8
0,490 to 1,705	30	33,8 to 22,9
1,705 to 30	30	29,5
30 to 88	3	40
88 to 216	3	43,5
216 to 960	3	46,0
960 to 1000	3	54

Remarks: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz and 110–490 kHz. Radiated emission limits in these two bands are based on measurements employing an average detector. The results have been extrapolated to the specified distance using an extrapolation factor

Acceptance limits for emissions in restricted frequency bands ($f \geq 1000$ MHz)

Frequency (MHz)	Test distance (m)	AV limits [dB(μ V/m)]	Peak limits [dB(μ V/m)]
> 1000	3	54	74

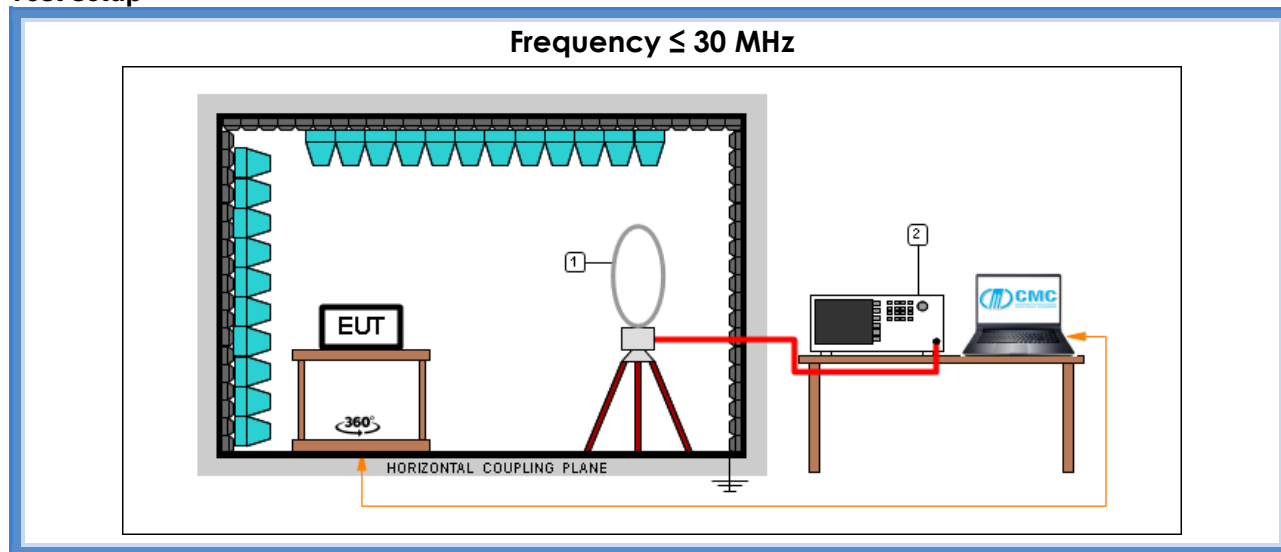
The restricted frequency bands are listed in the following table

MHz	MHz	MHz	GHz
0,090 – 0,110	16,42 – 16,423	399,9 – 410	4,5 – 5,15
0,495 – 0,505	16,69475 – 16,69525	608 – 614	5,35 – 5,46
2,1735 – 2,1905	16,80425 – 16,80475	960 – 1240	7,25 – 7,75
4,125 – 4,128	25,5 – 25,67	1300 – 1427	8,025 – 8,5
4,17725 – 4,17775	37,5 – 38,25	1435 – 1626,5	9,0 – 9,2
4,20725 – 4,20775	73 – 74,6	1645,5 – 1646,5	9,3 – 9,5
6,215 – 6,218	74,8 – 75,2	1660 – 1710	10,6 – 12,7
6,26775 – 6,26825	108 – 121,94	1718,8 – 1722,2	13,25 – 13,4
6,31175 – 6,31225	123 – 138	2200 – 2300	14,47 – 14,5
8,291 – 8,294	149,9 – 150,05	2310 – 2390	15,35 – 16,2
8,362 – 8,366	156,52475 – 156,52525	2483,5 – 2500	17,7 – 21,4
8,37625 – 8,38675	156,7 – 156,9	2690 – 2900	22,01 – 23,12
8,41425 – 8,41475	162,0125 – 167,17	3260 – 3267	23,6 – 24,0
12,29 – 12,293	167,72 – 173,2	3332 – 3339	31,2 – 31,8
12,51975 – 12,52025	240 – 285	3345,8 – 3358	36,43 – 36,5
12,57675 – 12,57725	322 – 335,4	3600 – 4400	Above 38,6
13,36 – 13,41			

Acceptance limits for emissions in non-restricted frequency bands

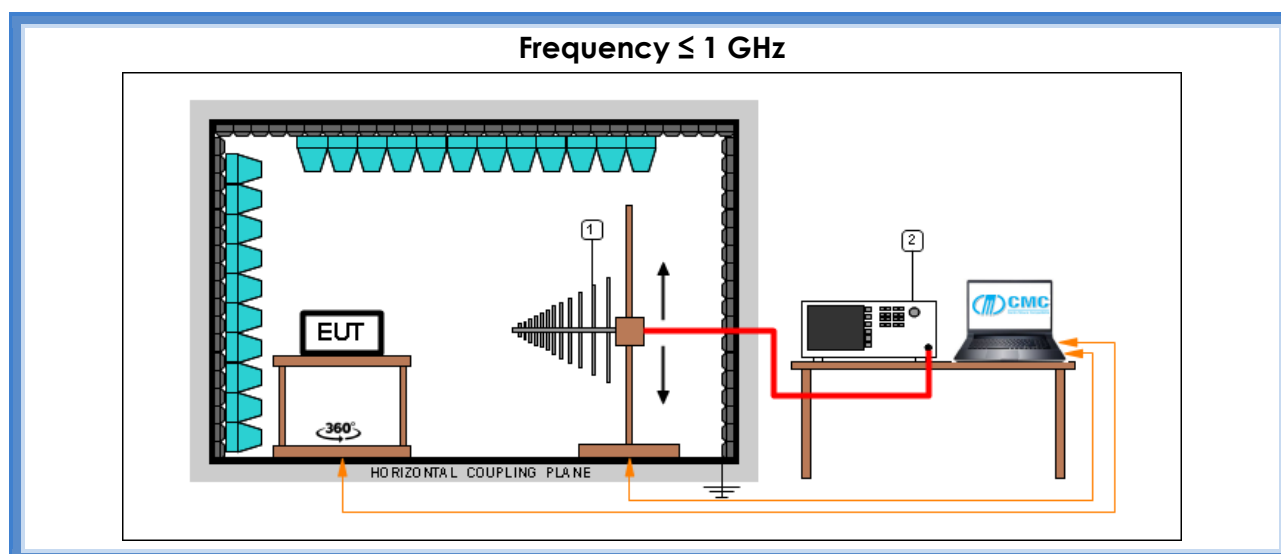
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits.

Test setup



Test setup PE004_01

Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S353	Rohde & Schwarz	ESW26	EMI Test Receiver 1 Hz - 26.5 GHz
1	CMC S127	Schaffner	HLA6120	Loop Antenna 9kHz - 30MHz

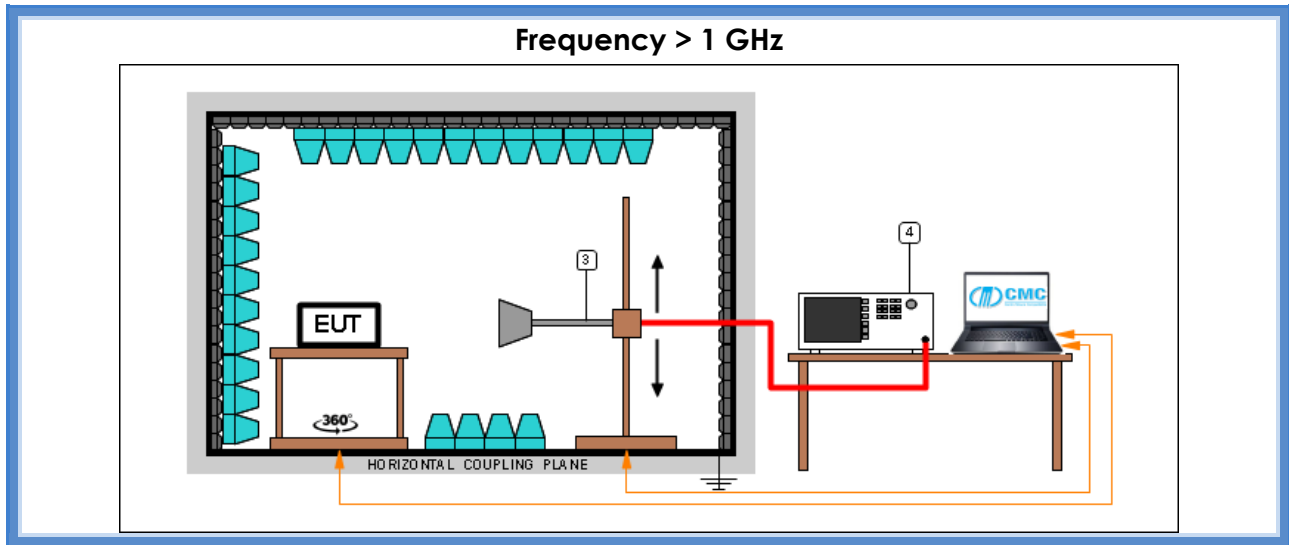


Test setup PE004_02

Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S353	Rohde & Schwarz	ESW26	EMI Test Receiver 1 Hz - 26.5 GHz
1	CMC S271	Schwarzbeck	BBA 9106 + VHBB 9124	Broadband Antenna

Test setup PE004_03

Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S353	Rohde & Schwarz	ESW26	EMI Test Receiver 1 Hz - 26.5 GHz
1	CMC S287	Schwarzbeck	VUSLP 9111B	Broadband Antenna



Test setup PE004_04

Nr.	Id. Number	Manufacturer	Model	Description
4	CMC S353	Rohde & Schwarz	ESW26	EMI Test Receiver 1 Hz - 26.5 GHz
3	CMC S108	Emco	3115	Waveguide antenna

Test setup PE004_05

Nr.	Id. Number	Manufacturer	Model	Description
4	CMC S353	Rohde & Schwarz	ESW26	EMI Test Receiver 1 Hz - 26.5 GHz
3	CMC S290	Schwarzbeck	BBHA 9170	Horn Antenna (15-40 GHz)

Result

<i>Transmission frequency (MHz)</i>	<i>Polarization</i>	<i>Frequency Range (MHz)</i>	<i>Graphs</i>	<i>Result</i>
927,25	V	300 – 1000	G22159507	P
927,25	H	300 – 1000	G22159508	P
914,75	H	300 – 1000	G22159509	P
914,75	V	300 – 1000	G22159510	P
902,75	V	300 – 1000	G22159511	P
902,75	H	300 – 1000	G22159512	P
Worst case	H	30 – 300	G22159513	P
Worst case	V	30 – 300	G22159514	P
Worst case	Loop	0,009 – 30	G22159515	P
902,75	H	1000 – 10000	G22159537	P
902,75	V	1000 – 10000	G22159538	P
914,75	V	1000 – 10000	G22159539	P
914,75	H	1000 – 10000	G22159540	P
927,25	H	1000 – 10000	G22159541	P
927,25	V	1000 – 10000	G22159542	P

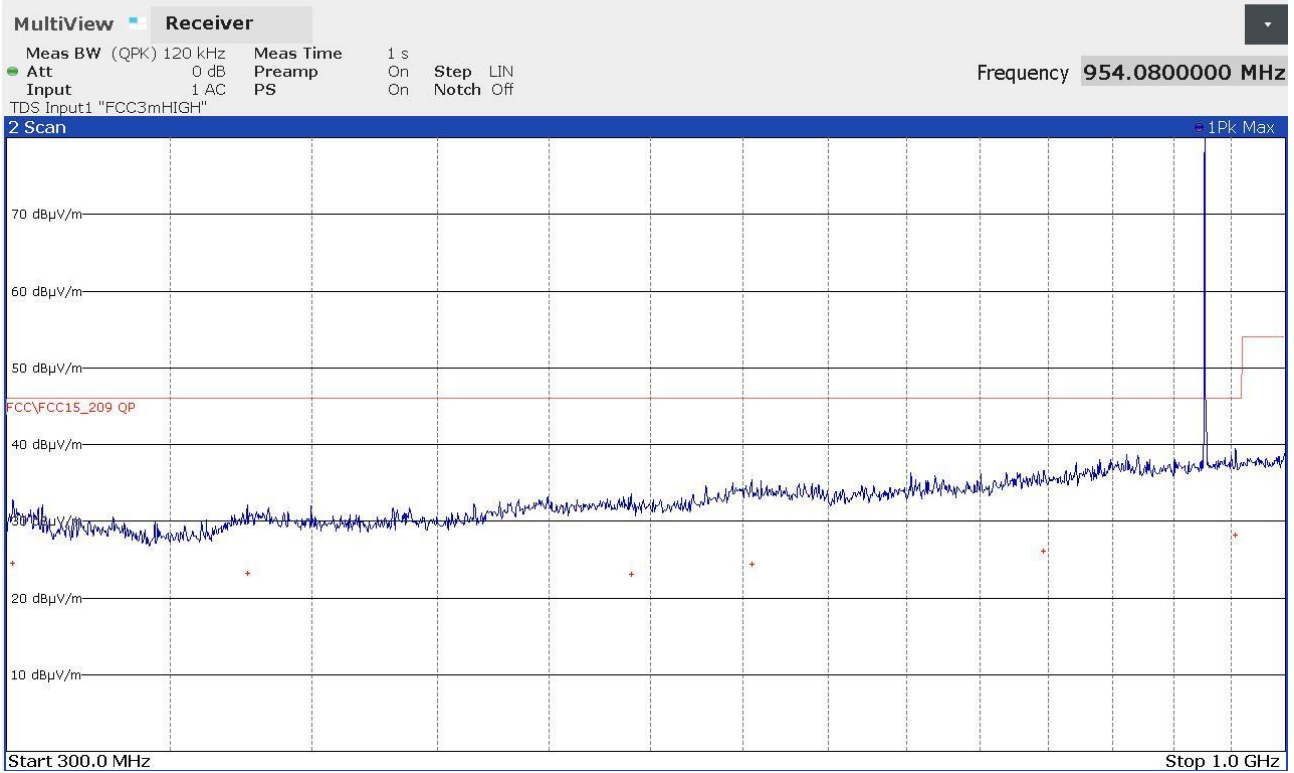
Remarks: EUT was tested in 3 orthogonal planes, graphs are related to the highest detected levels. Measurements at frequencies lower than 30 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with conversion factor $40\log(\text{test distance}/10)$ based on the measuring distance provided by the standard. Measurements at frequencies higher than 30 MHz and lower than 1000 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with conversion factor $20\log(\text{test distance}/10)$ based on the measuring distance provided by the standard. Peaks above the limits are caused by the nominal transmitting frequencies

Graphs Legend

PK: Peak; QP [1s] (quasi-peak at 1 second) values are marked with a +
 AV: Average; AV [1s] (average at 1 second) values are marked with a X

Graphs

SegaLLa 22159507

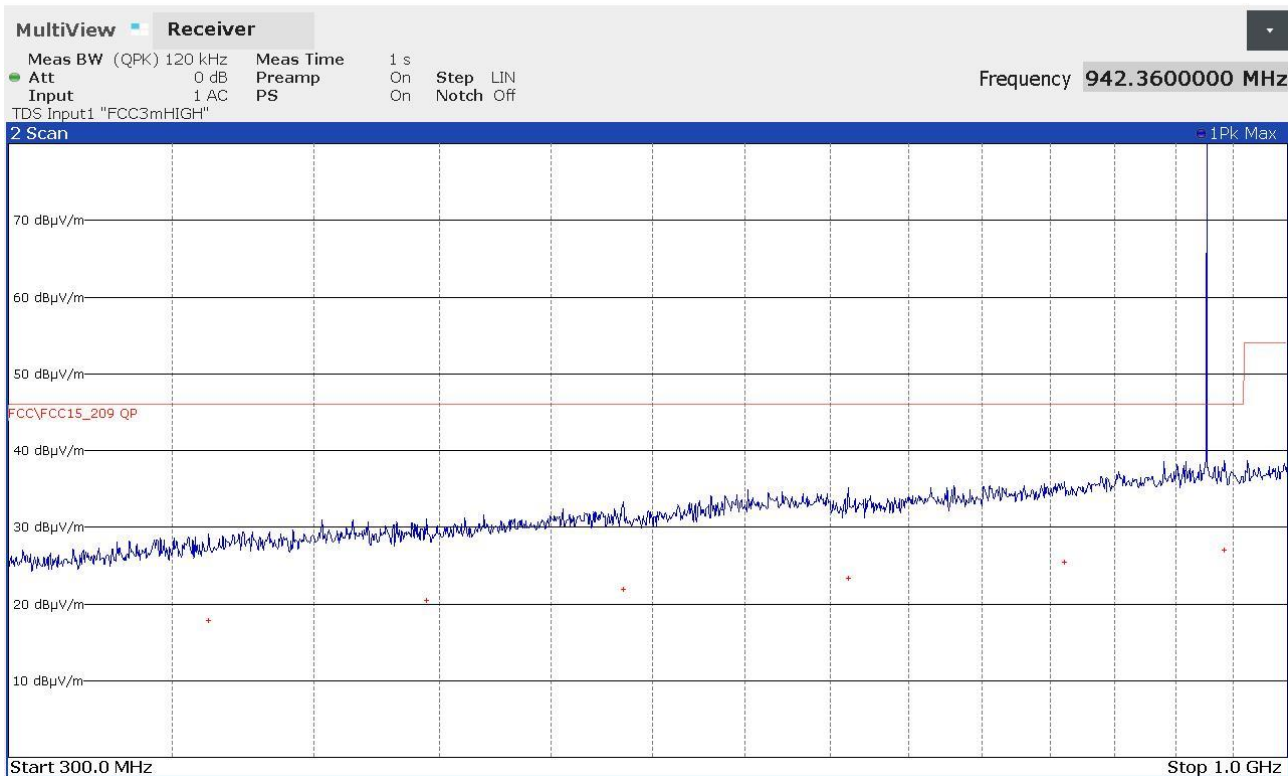


FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
301840000	+24,53	-21,49
376400000	+23,18	-22,84
540120000	+23,03	-22,99
605080000	+24,42	-21,60
796520000	+26,11	-19,91
954080000	+28,19	-17,83

22159507_2

Segalla 22159508

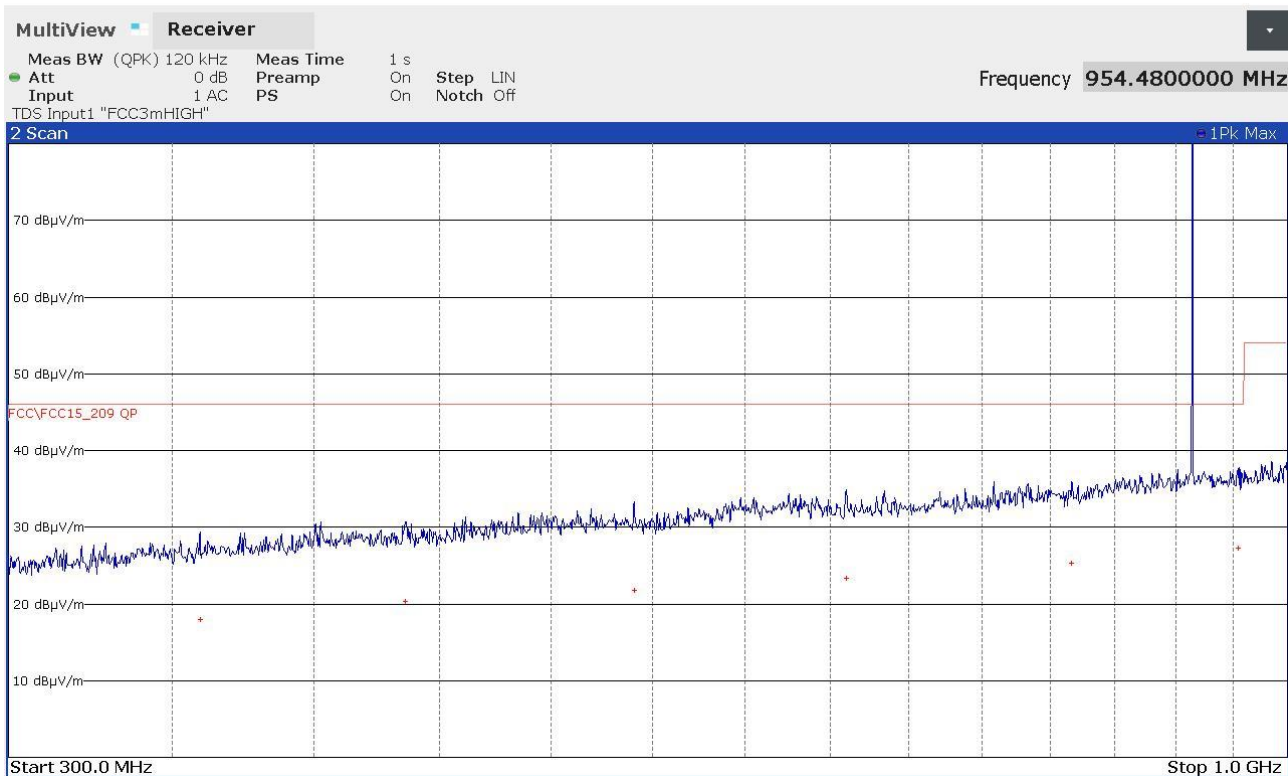


FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
362240000	+17,83	-28,19
444680000	+20,49	-25,53
535280000	+21,92	-24,10
661320000	+23,34	-22,68
810680000	+25,44	-20,58
942360000	+27,01	-19,01

22159508_2

Segalla 22159509

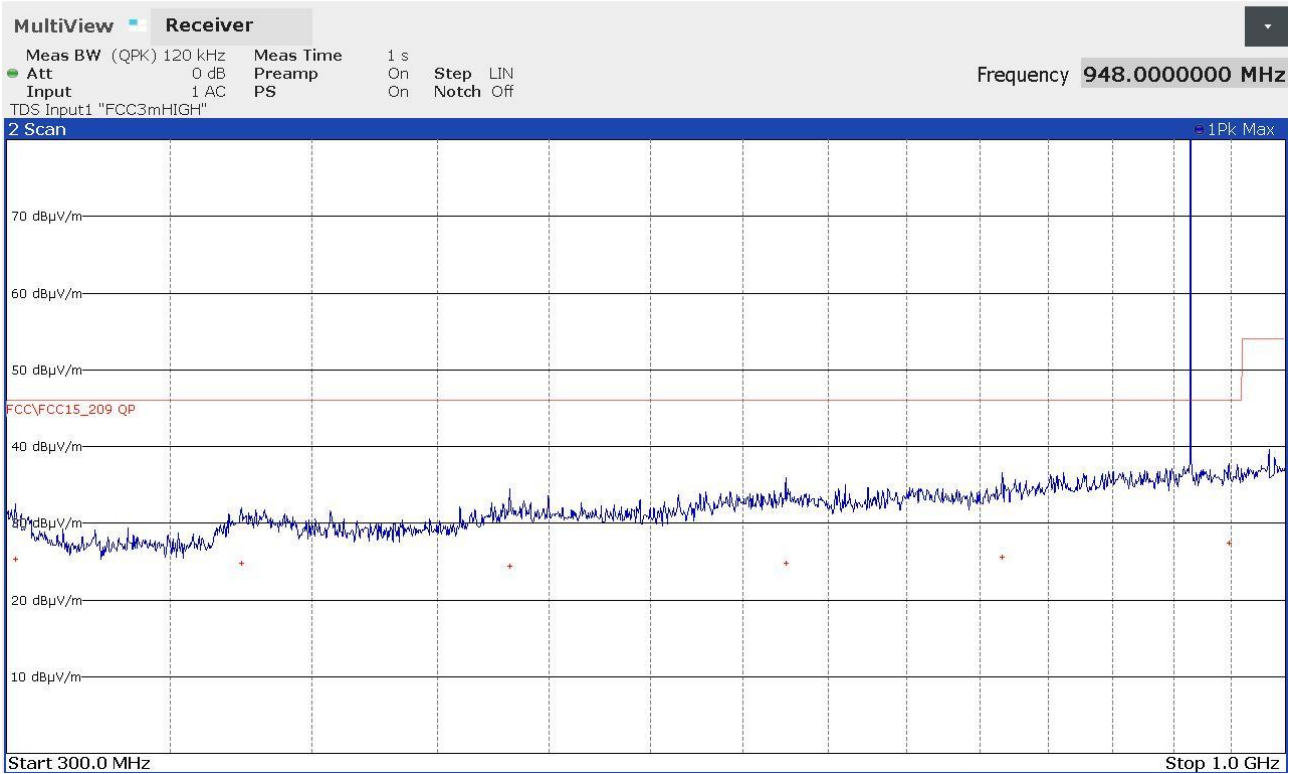


FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
359240000	+17,99	-28,03
436080000	+20,36	-25,66
540560000	+21,75	-24,27
660040000	+23,38	-22,64
816360000	+25,33	-20,69
954480000	+27,22	-18,80

22159509_2

Segalla 22159510

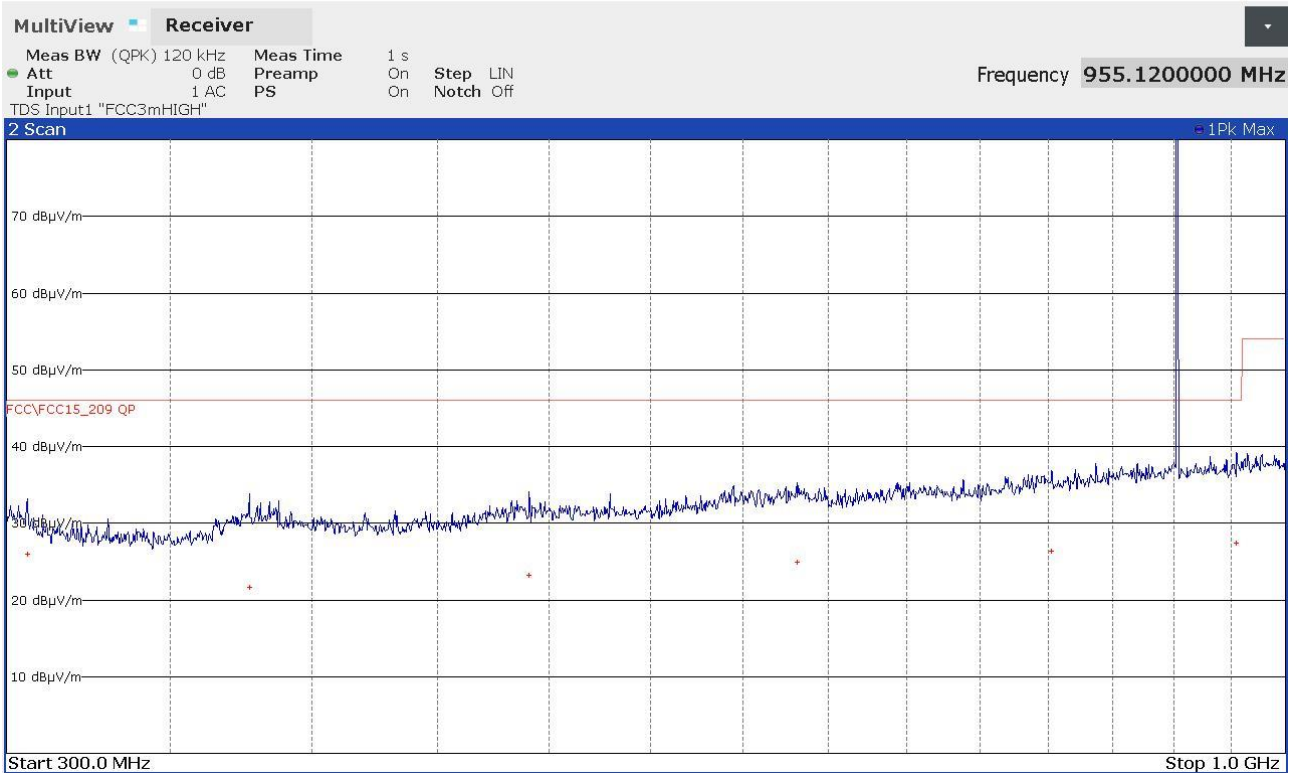


FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
302520000	+25,28	-20,74
374280000	+24,77	-21,25
481880000	+24,33	-21,69
624800000	+24,78	-21,24
766120000	+25,63	-20,39
948000000	+27,41	-18,61

22159510_2

Segalla 22159511

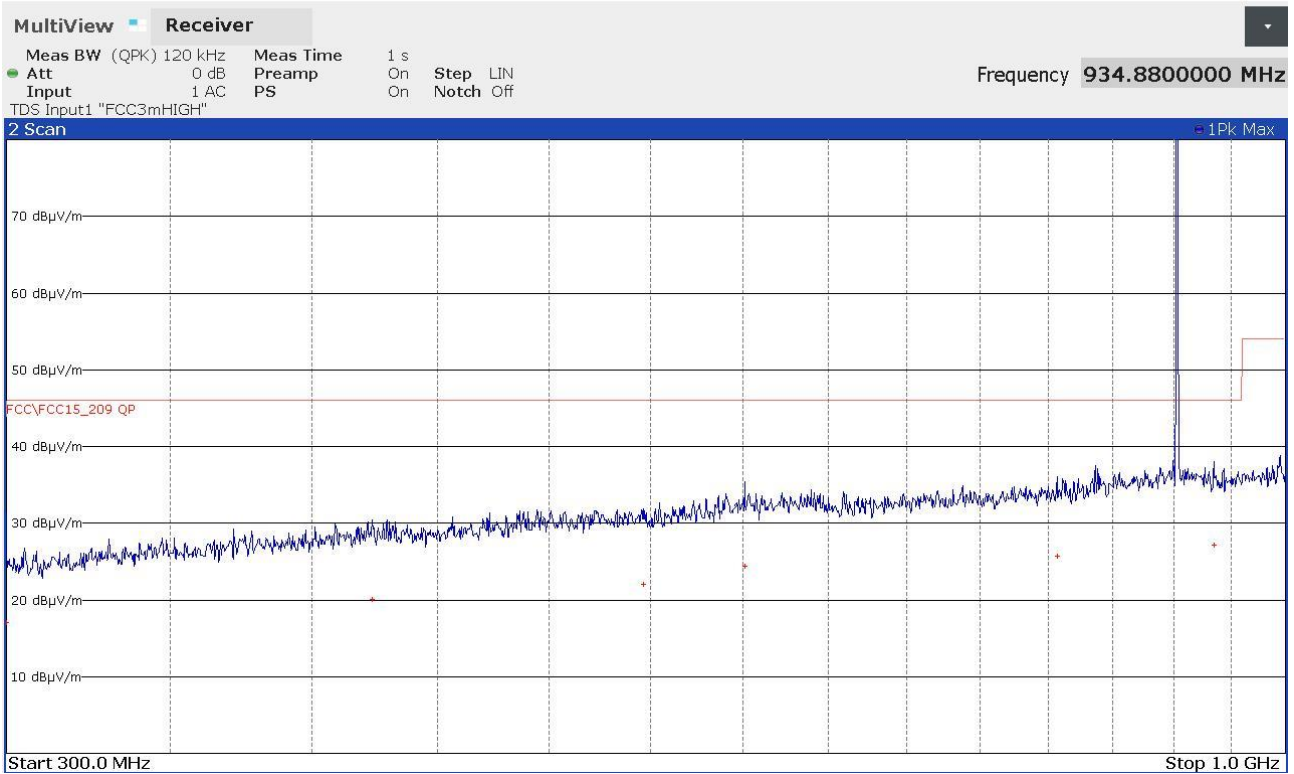


FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
305920000	+26,03	-19,99
377200000	+21,64	-24,38
490640000	+23,15	-22,87
631440000	+24,96	-21,06
802560000	+26,40	-19,62
955120000	+27,35	-18,67

22159511_2

Segalla 22159512

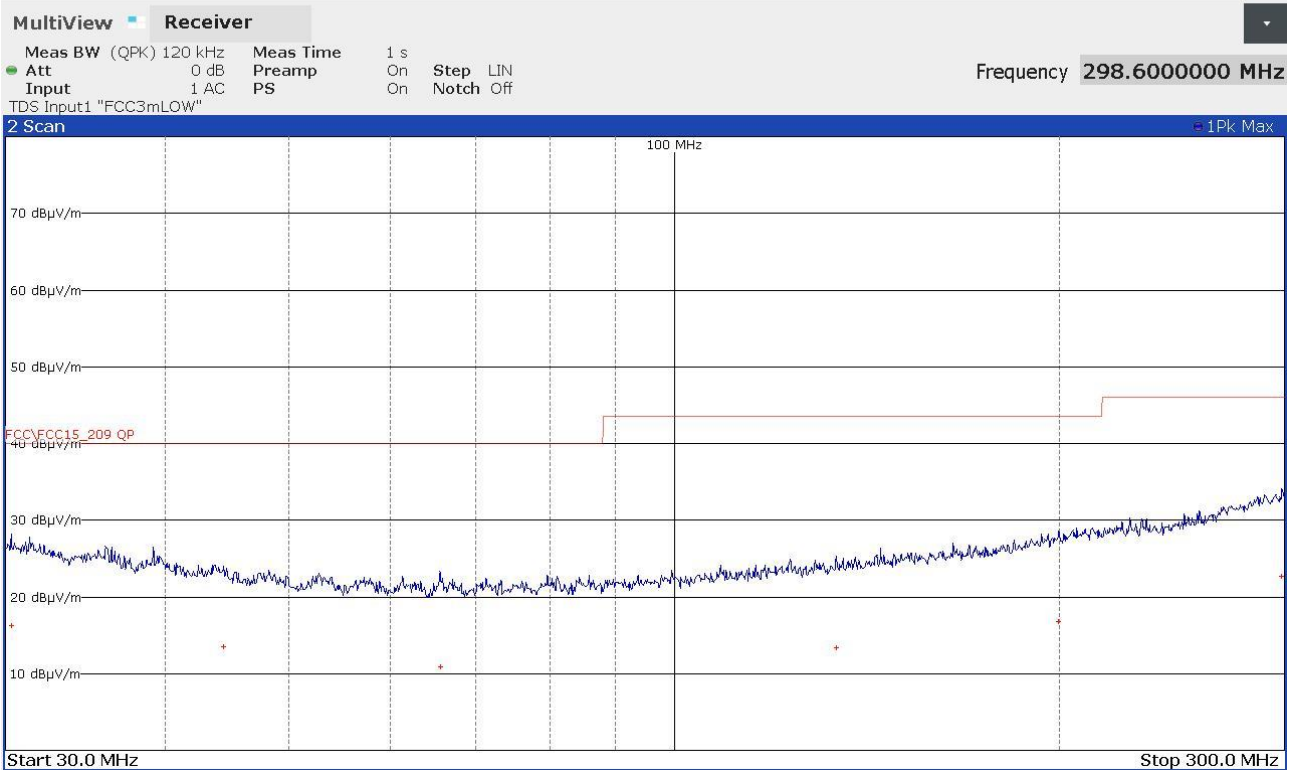


FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
300000000	+17,06	-28,96
423240000	+20,05	-25,97
546600000	+22,02	-24,00
601160000	+24,43	-21,59
806640000	+25,65	-20,37
934880000	+27,10	-18,92

22159512_2

Segalla 22159513

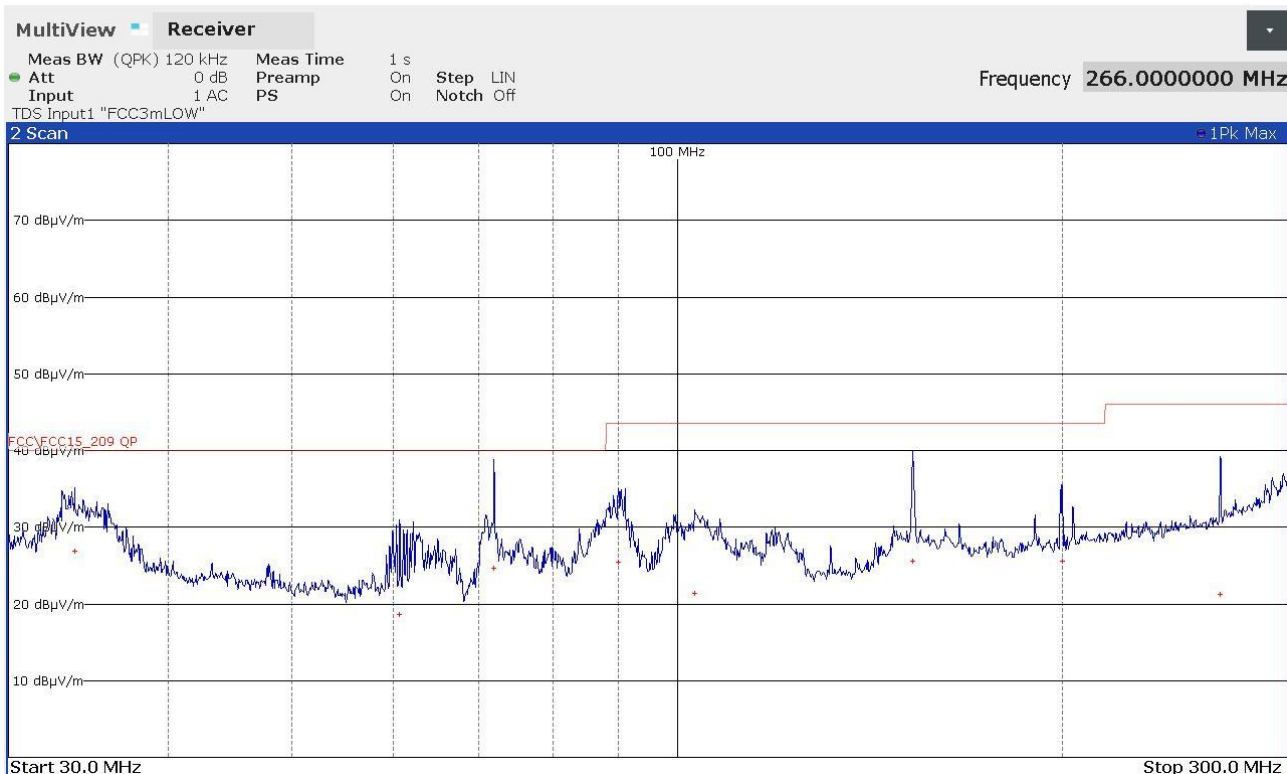


FINAL RESULT TABLE

QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
30320000	+16,24	-23,76
44440000	+13,46	-26,54
65600000	+10,90	-29,10
133800000	+13,43	-30,09
199840000	+16,85	-26,67
298600000	+22,72	-23,30

22159513_2

Segalla 22159514

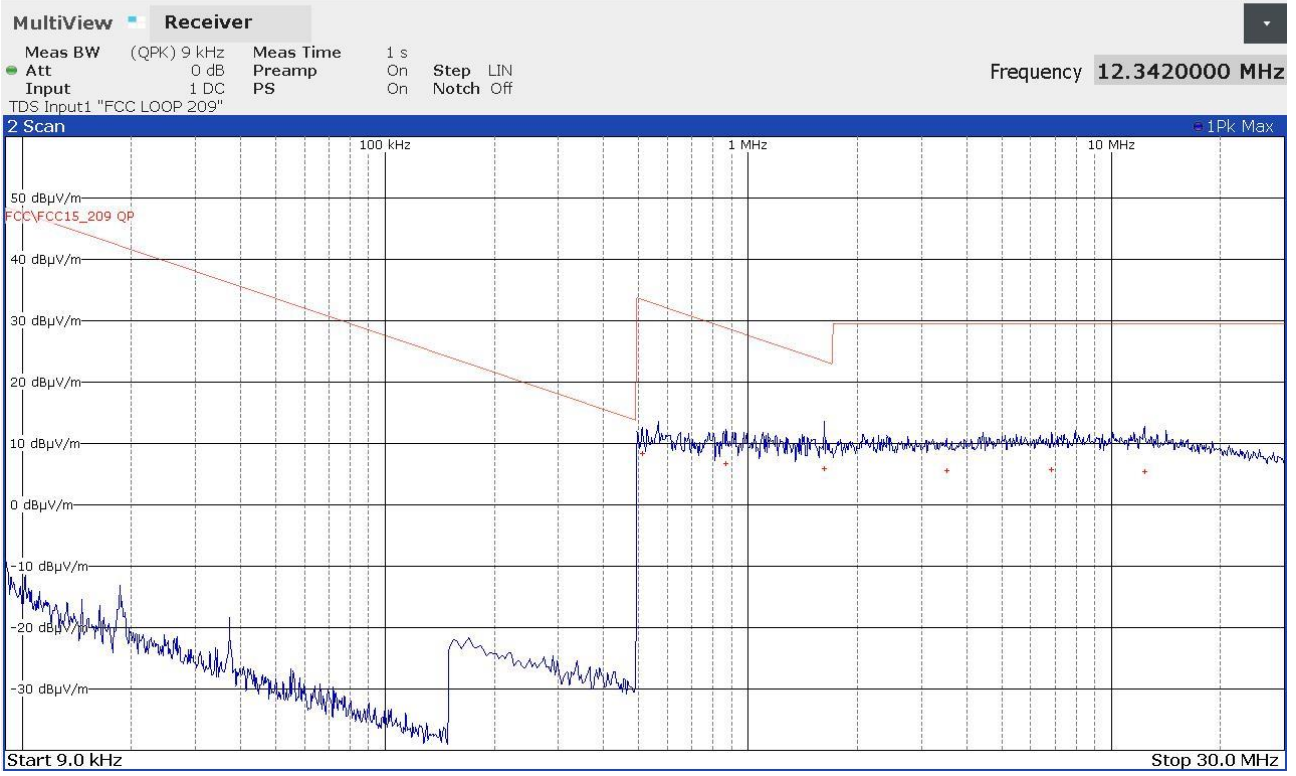


FINAL RESULT TABLE

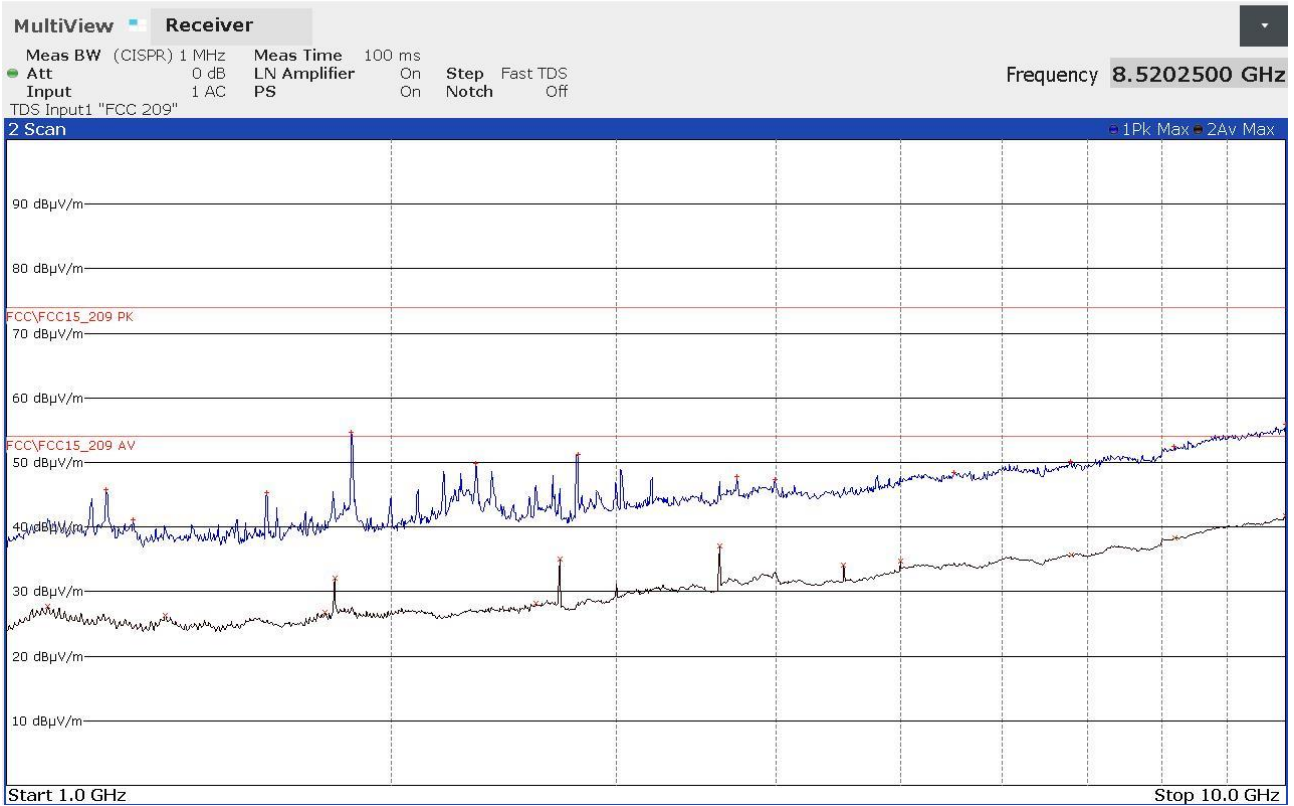
QUASI PEAK		
Freq Hz	Lev dBuV/m	Margin dB
33800000	+26,90	-13,10
60680000	+18,66	-21,34
71920000	+24,67	-15,33
90000000	+25,45	-18,07
103160000	+21,43	-22,09
152840000	+25,57	-17,95
199880000	+25,58	-17,94
266000000	+21,20	-24,82

22159514_2

Segalla 22159515



Segalla 22159537

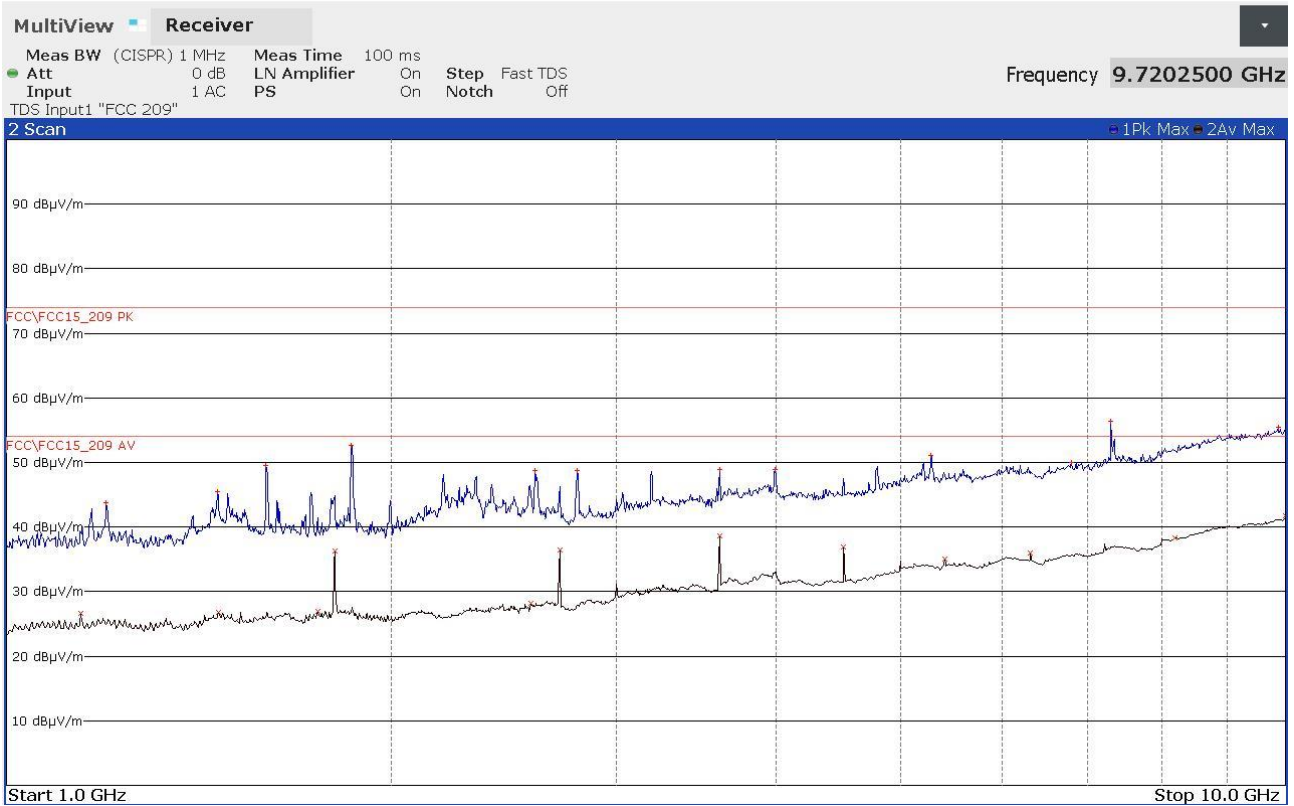


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1196750000	+45,80	-28,18	1077500000	+27,66	-26,32
1255750000	+41,19	-32,79	1331250000	+26,37	-27,61
1598250000	+45,31	-28,67	1775750000	+26,78	-27,20
1860500000	+54,70	-19,28	1805500000	+32,04	-21,94
2329000000	+49,82	-24,16	2595000000	+28,15	-25,83
2799000000	+51,18	-22,80	2708250000	+35,11	-18,87
3723750000	+47,77	-26,21	3611000000	+37,04	-16,94
3987000000	+47,31	-26,67	4513750000	+34,10	-19,88
5506000000	+48,50	-25,48	4999750000	+34,66	-19,32
6794500000	+50,16	-23,82	6797750000	+35,66	-18,32
8187250000	+52,49	-21,49	8191000000	+38,34	-15,64
9994500000	+55,85	-18,13	9999500000	+41,73	-12,25

22159537_2

Segalla 22159538



FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1196250000	+43,77	-30,21	1142750000	+26,67	-27,31
1462500000	+45,43	-28,55	1464000000	+26,77	-27,21
1594750000	+49,52	-24,46	1751000000	+26,95	-27,03
1861000000	+52,72	-21,26	1805500000	+36,27	-17,71
2590250000	+48,75	-25,23	2571000000	+28,24	-25,74
2794000000	+48,70	-25,28	2708250000	+36,42	-17,56
3611000000	+48,88	-25,10	3611000000	+38,56	-15,42
3986500000	+48,93	-25,05	4513750000	+36,91	-17,07
5285500000	+51,02	-22,96	5416500000	+35,00	-18,98
6798750000	+49,99	-23,99	6319250000	+35,92	-18,06
7300250000	+56,38	-17,60	8190500000	+38,29	-15,69
9870000000	+55,40	-18,58	9999750000	+41,67	-12,31

22159538_2