

TEST REPORT Nr. R22216801

Federal Communication Commission (FCC)

Report Reference No.	R22216801
Date of issue:	10.01.2023
Total number pages:	71
Customer name	Xylem Service Italia S.r.l.
Address	Via Lombardi, 14 – 36075 Montecchio Maggiore (VI) – 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_DTS_DEKRA
Test Report Form(s) Originator ...:	DEKRA Testing and Certification S.r.l.
Master TRF	2022-12
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 DEKRA Testing and Certification S.r.l.	
(*) Test item description	Variable speed control with Bluetooth® wireless technology for electric motors (on-board installation) HVX+ – size B
(*) Trademark	Xylem
(*) Manufacturer	Xylem Service Italia S.r.l.
(*) Model / Type reference	10534394
(*) FCC ID	2AYCGXSI03
(*) Rating(s)	208 V ~ 60 Hz three-phase + earth
Report	
Tested by (name + signature)	M. Segalla 
Approved by (name + signature)	F. Marenda 

(*) information provided by the customer

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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	
DEKRA Testing and Certification S.r.l. Via della Fisica, 20 – 36016 Thiene (VI) – Italy Test site facility's FCC registration number: 182474	

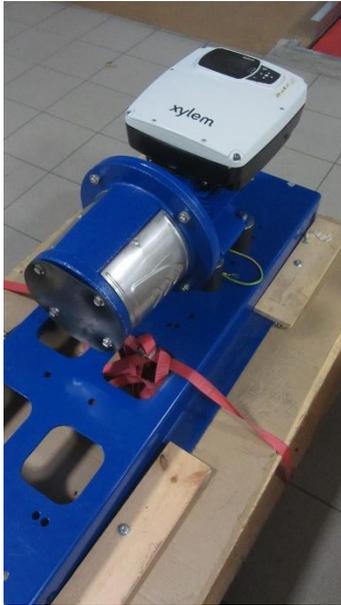
<i>Revision index</i>	<i>Date</i>	<i>Change history</i>
1.0	10.01.2023	--

Testing and sampling:	
Date of receipt of test item	07.11.2022
Testing start date	29.11.2022
Testing end date	12.12.2022
Sampling procedure	Sample used for testing chosen by the customer; DEKRA Testing and Certification S.r.l. cannot be considered responsible for the selection of the sample
Internal identification	Adhesive label with the product number P221103
General remarks:	
<p>This report shall not be reproduced, except in full, without the written approval of DEKRA Testing and Certification S.r.l.</p> <p>The test results presented in this report relate only to the object tested.</p> <p>“(see appended table)”: refers to a table appended to the report.</p> <p>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	Variable speed control with Bluetooth® wireless technology for electric motors (on-board installation) HVX+ – size B						
Model Number	10534394						
FCC ID	2AYCGXSI03						
Serial Number	--						
Brand name	Xylem						
Frequency band	2400 – 2483,5 MHz						
Nominal frequencies	F _L : 2402 MHz		F _M : 2440 MHz		F _H : 2480 MHz		
Test power supply	Voltage and Frequency			Reference poles			
			N	L1	L2	L3	PE
	<input checked="" type="checkbox"/>	AC: 208 V, 60 Hz	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	<input type="checkbox"/>	AC:	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	<input type="checkbox"/>	DC:					<input type="checkbox"/>
Type of equipment	<input checked="" type="checkbox"/> Transmitter unit <input checked="" 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 checked="" 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 type="checkbox"/>	Other, for example wall mounted, ceiling mounted, handheld, body worn		Table-top				
Operating modes	No.	Operating mode of test item					
	1	Running mode at idle, 3100 rpm, radio transmission at maximum output power					
Declination of responsibility	Information relating to the description of the sample, components list and software/hardware version (if reported) are provided by the customer. DEKRA Testing and Certification 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. 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.						

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 15.203	Antenna requirements	--	P
Part 15.207	Conducted emissions	ANSI C63.10	P
Part 15.209	Emissions in restricted frequency bands and in unrestricted frequency bands	ANSI C63.10	P
Part 15.247 (a) (2)	DTS bandwidth	ANSI C63.10	P
Part 15.215 (c)	20 dB bandwidth	ANSI C63.10	P
Part 15.247 (d)	Band edge	ANSI C63.10	P
Part 15.209 and 15.247	Fundamental emission output power	ANSI C63.10	P
Part 15.209 and 15.247	Maximum power spectral density level in the fundamental emission	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

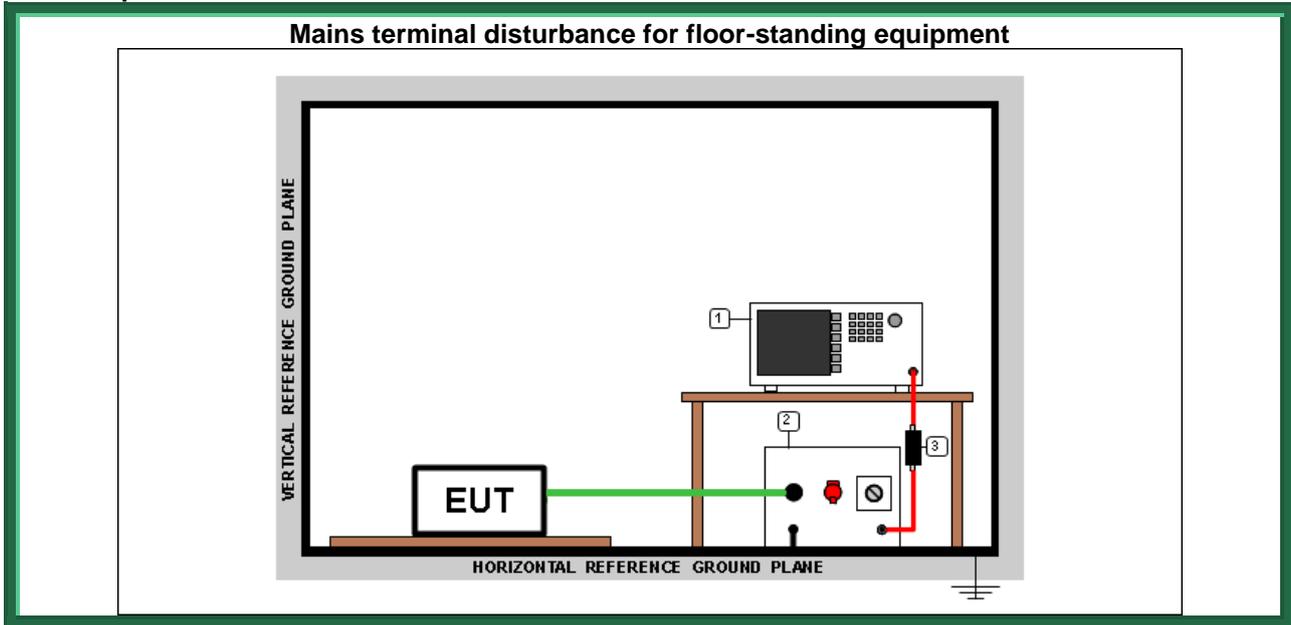
Tested by	M. Segalla	
Test date	29.11.2022	
Reference standards.....	FCC Rules and Regulation; Titles 47 Part. 15.203 and 15.204	
Test specification	<p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. 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 checked="" type="checkbox"/>	Integral antenna
	<input type="checkbox"/>	External antenna
Antenna gain	-1,80 dBi	
External R.F. power amplifier.....	Not Present	

9.2 Conducted emission

Tested by	M. Segalla	
Test date	30.11.2022	
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 type="checkbox"/>	Table top equipment set-up (80 cm above the reference ground plane)
	<input checked="" 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

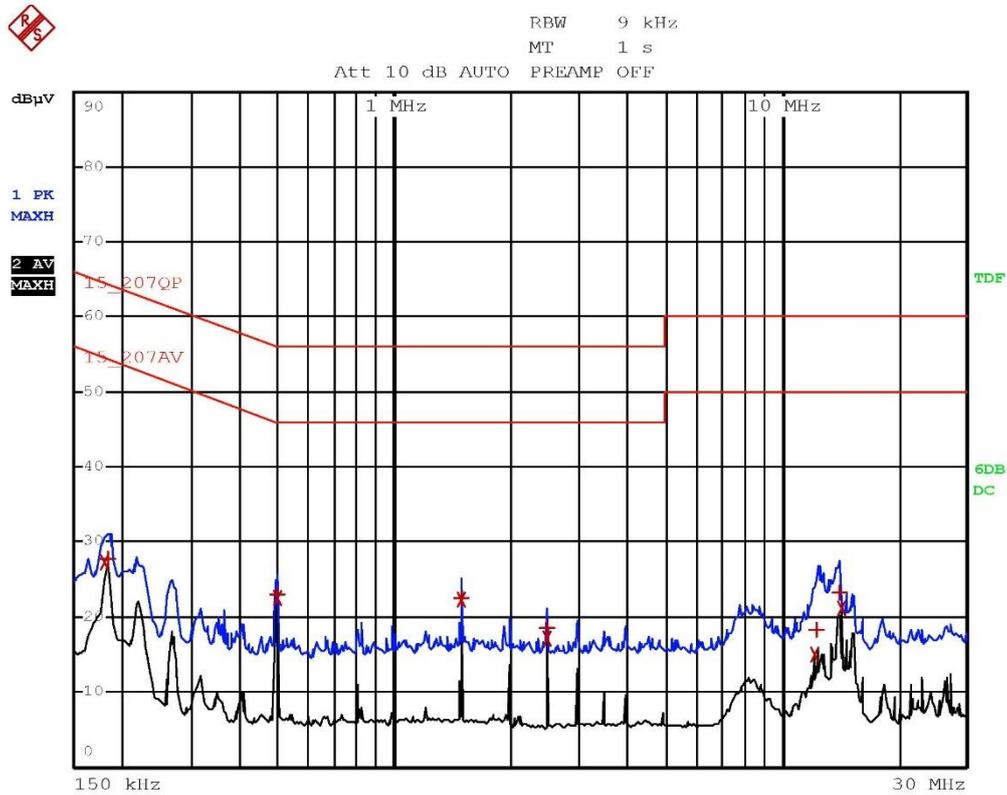
Result

Line	Frequency Range (MHz)	Graphs	Remarks	Result
L1	0,15 – 30	G22216828	--	P
L2	0,15 – 30	G22216829	--	P
L3	0,15 – 30	G22216830	--	P

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

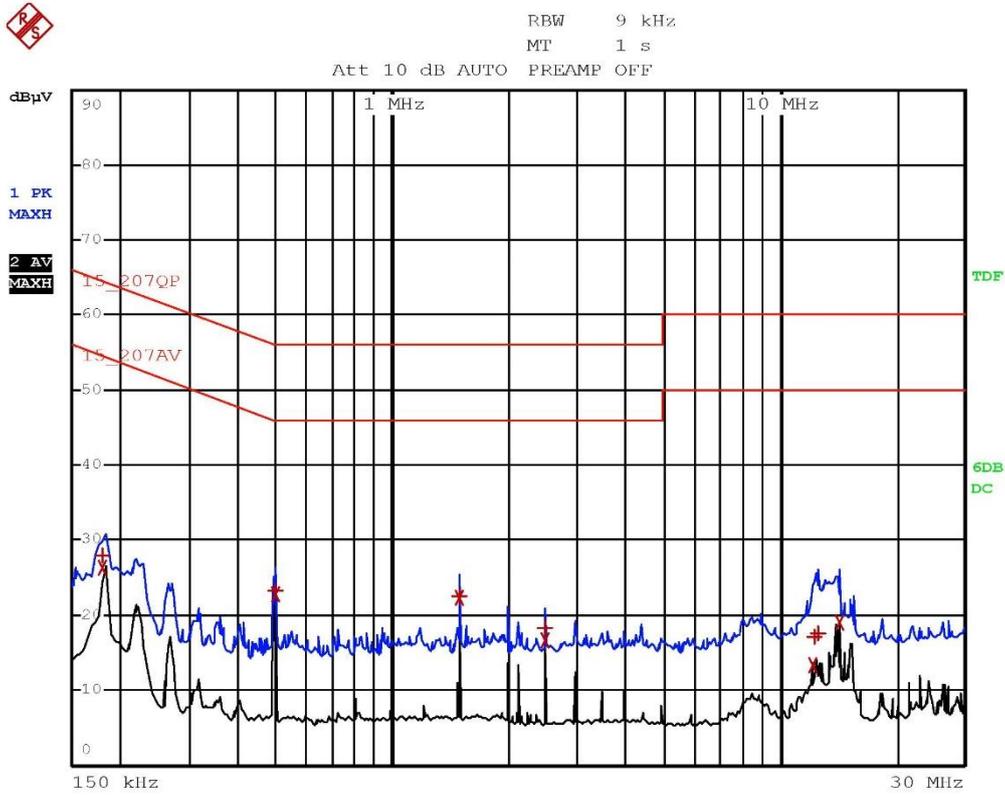
Graphs



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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
2 Average	182 kHz	27.24	-27.14
1 Quasi Peak	186 kHz	27.78	-36.42
1 Quasi Peak	498 kHz	23.03	-33.00
2 Average	498 kHz	22.46	-23.56
1 Quasi Peak	1.49 MHz	22.66	-33.33
2 Average	1.49 MHz	22.42	-23.57
1 Quasi Peak	2.482 MHz	18.58	-37.41
2 Average	2.482 MHz	17.11	-28.88
2 Average	12.198 MHz	15.01	-34.98
1 Quasi Peak	12.37 MHz	18.38	-41.62
1 Quasi Peak	14.154 MHz	23.29	-36.70
2 Average	14.214 MHz	21.15	-28.84

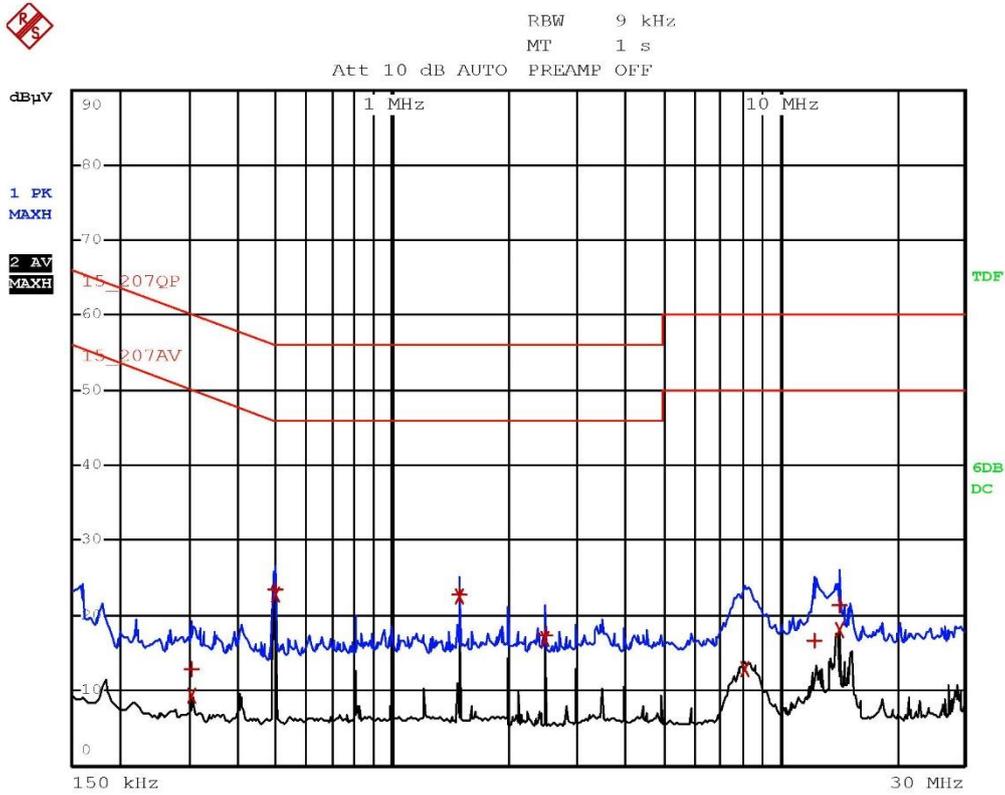
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EDIT PEAK LIST (Final Measurement Results)			
Trace1:	15_207QP		
Trace2:	15_207AV		
Trace3:	---		
TRACE	FREQUENCY	LEVEL dB μ V	DELTA LIMIT dB
1 Quasi Peak	182 kHz	28.00	-36.38
2 Average	182 kHz	26.39	-27.99
1 Quasi Peak	498 kHz	23.27	-32.75
2 Average	498 kHz	22.71	-23.32
1 Quasi Peak	1.49 MHz	22.59	-33.40
2 Average	1.49 MHz	22.26	-23.73
1 Quasi Peak	2.482 MHz	18.30	-37.69
2 Average	2.482 MHz	16.69	-29.30
2 Average	12.198 MHz	13.32	-36.67
1 Quasi Peak	12.354 MHz	17.11	-42.88
1 Quasi Peak	12.542 MHz	17.64	-42.35
2 Average	14.214 MHz	19.03	-30.96

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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	302 kHz	12.87	-47.31
2 Average	302 kHz	9.31	-40.87
1 Quasi Peak	498 kHz	23.54	-32.49
2 Average	498 kHz	22.89	-23.13
1 Quasi Peak	1.49 MHz	22.73	-33.27
2 Average	1.49 MHz	22.45	-23.54
1 Quasi Peak	2.478 MHz	17.28	-38.71
2 Average	2.482 MHz	16.98	-29.01
2 Average	8.122 MHz	12.79	-37.21
1 Quasi Peak	12.266 MHz	16.66	-43.33
1 Quasi Peak	14.214 MHz	21.36	-38.63
2 Average	14.214 MHz	18.18	-31.81

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9.3 Emissions in restricted frequency bands and in unrestricted frequency bands

Tested by	M. Segalla	
Test date	29.11.2022	
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 type="checkbox"/>	Table top equipment set-up (80 cm above the reference ground plane)
	<input checked="" 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	OATS or SAC with measurement distance [m]: 10 m for frequencies below 1 GHz 3 m for frequencies above 1 GHz	
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

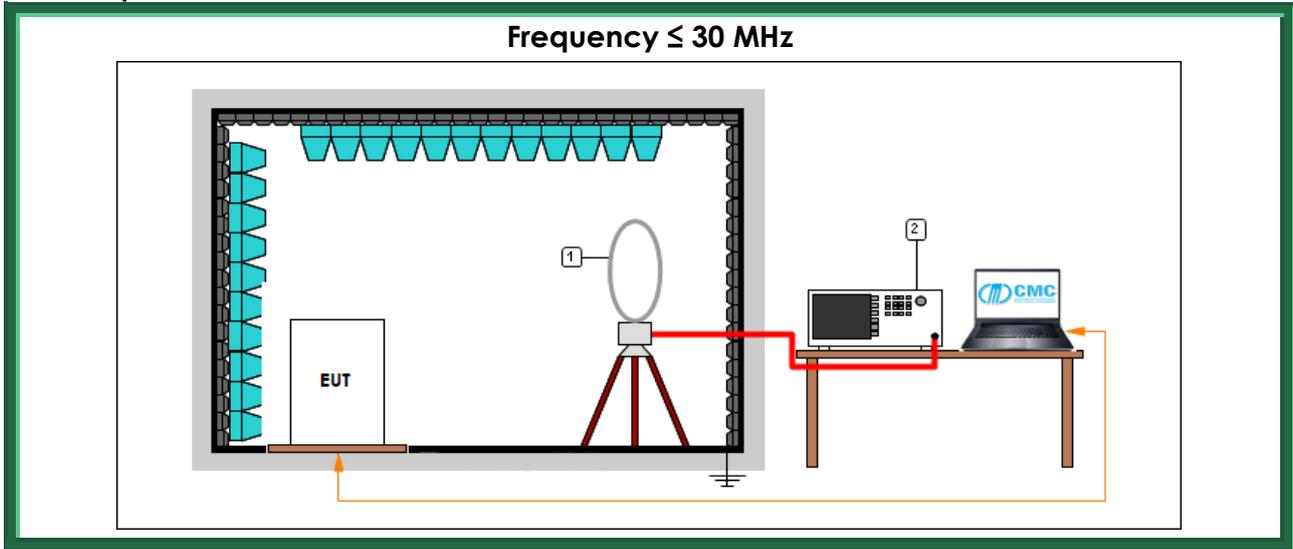
The restricted frequency bands are listed in the following table

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 (according to ANSI C63.10 cl. 11.11.1)

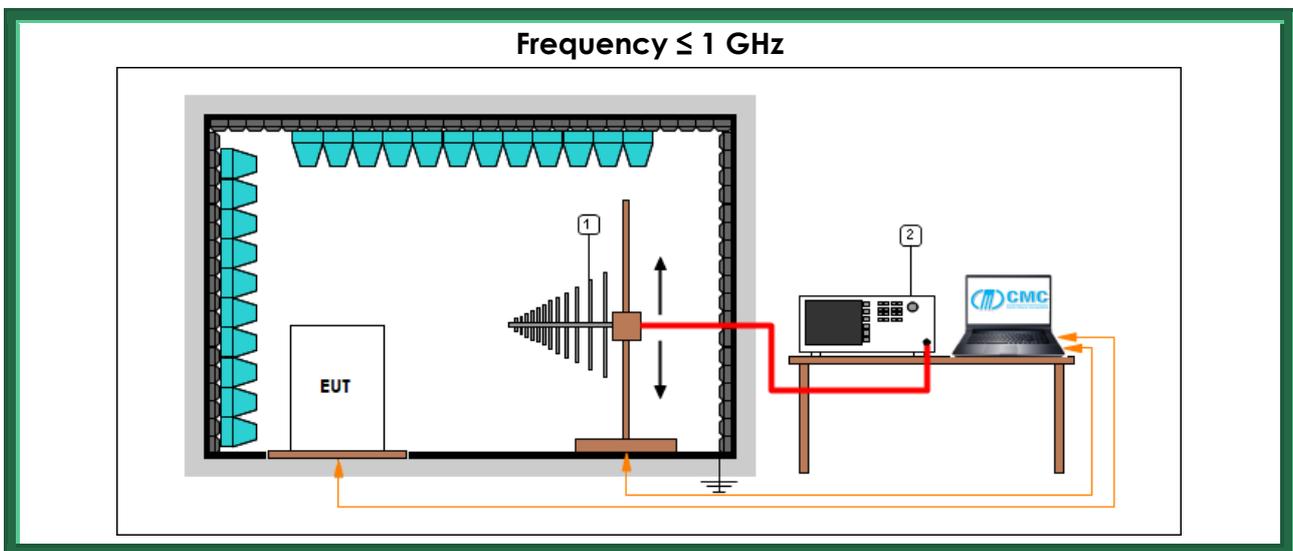
The DTS rules specify that in any 100 kHz bandwidth outside of the authorized frequency band, the power shall be attenuated according to the following conditions:

- a) If the maximum peak conducted output power procedure was used to demonstrate compliance as described in 9.1, then the peak output power measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz
- b) If maximum conducted (average) output power was used to demonstrate compliance as described in 9.2, then the peak power in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum in-band peak PSD level in 100 kHz.
- c) In either case, attenuation to levels below the 15.209 general radiated emissions limits is not required

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

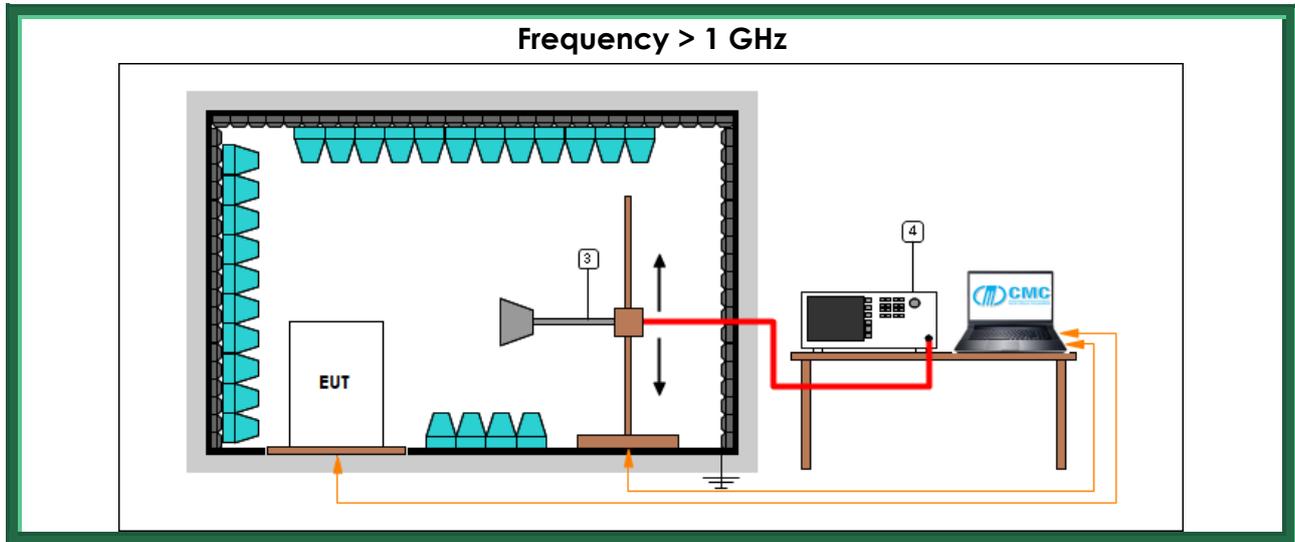


Test setup PE004_02

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

<i>Nr.</i>	<i>Id. Number</i>	<i>Manufacturer</i>	<i>Model</i>	<i>Description</i>
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

<i>Nr.</i>	<i>Id. Number</i>	<i>Manufacturer</i>	<i>Model</i>	<i>Description</i>
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

Transmission channel	Polarization	Frequency Range (MHz)	Graphs	Verdict
2402 MHz	V	1000 – 3000	G22216801	P
2402 MHz	H	1000 – 3000	G22216802	P
2440 MHz	H	1000 – 3000	G22216803	P
2440 MHz	V	1000 – 3000	G22216804	P
2480 MHz	V	1000 – 3000	G22216805	P
2480 MHz	H	1000 – 3000	G22216806	P
2402 MHz	H	3000 – 18000	G22216811	P
2402 MHz	V	3000 – 18000	G22216812	P
2440 MHz	V	3000 – 18000	G22216813	P
2440 MHz	H	3000 – 18000	G22216814	P
2480 MHz	H	3000 – 18000	G22216815	P
2480 MHz	V	3000 – 18000	G22216816	P
2480 MHz	V	18000 – 26000	G22216817	P
2480 MHz	H	18000 – 26000	G22216818	P
2440 MHz	H	18000 – 26000	G22216819	P
2440 MHz	V	18000 – 26000	G22216820	P
2402 MHz	V	18000 – 26000	G22216821	P
2402 MHz	H	18000 – 26000	G22216822	P
Worst case	V	30 – 300	G22216823	P
Worst case	H	30 – 300	G22216824	P
Worst case	H	300 – 1000	G22216825	P
Worst case	V	300 – 1000	G22216826	P
Worst case	Loop	0,009 – 30	G22216827	P

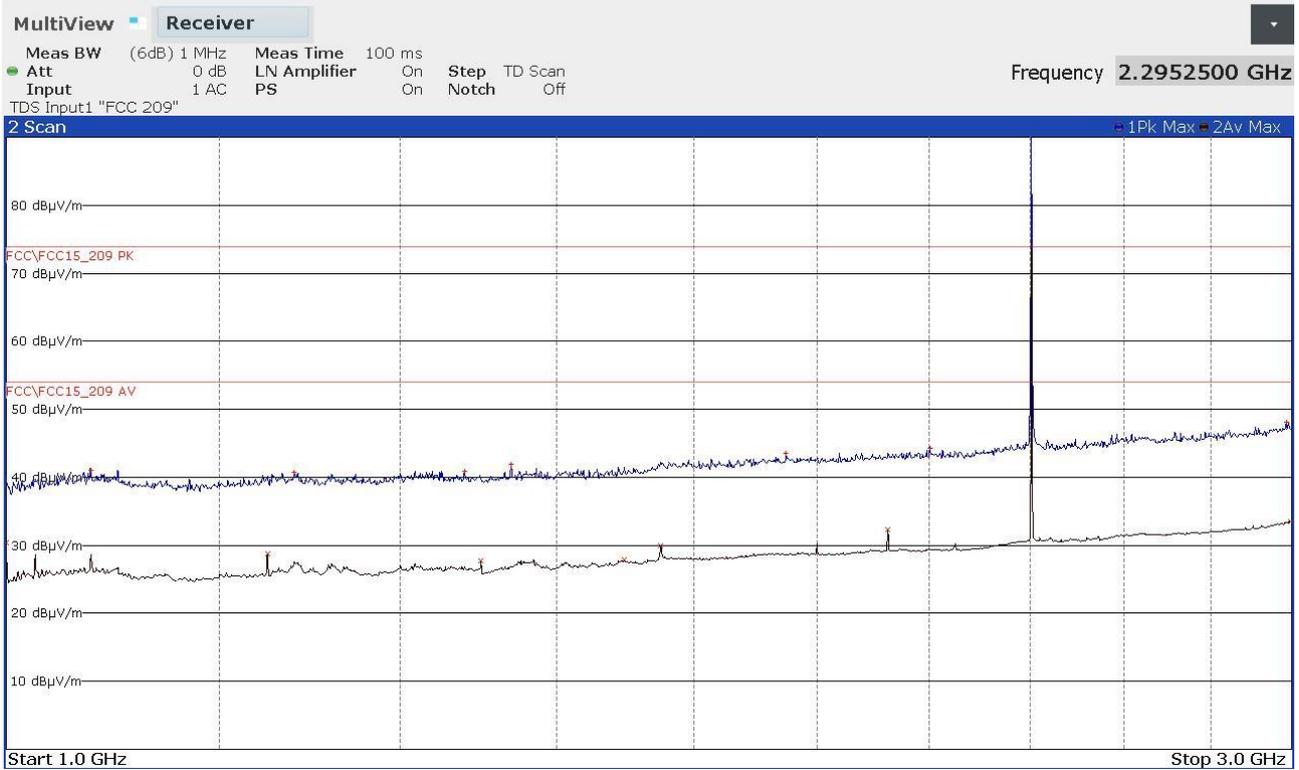
Remarks: EUT was tested in 3 orthogonal planes, graphs are related to the highest detected levels. Measurements at frequencies lower than 30 MHz have been performed with an EUT – antenna distance of 10 m. Measured values have been corrected with conversion factor $40\log(\text{test distance}/10)$ based 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

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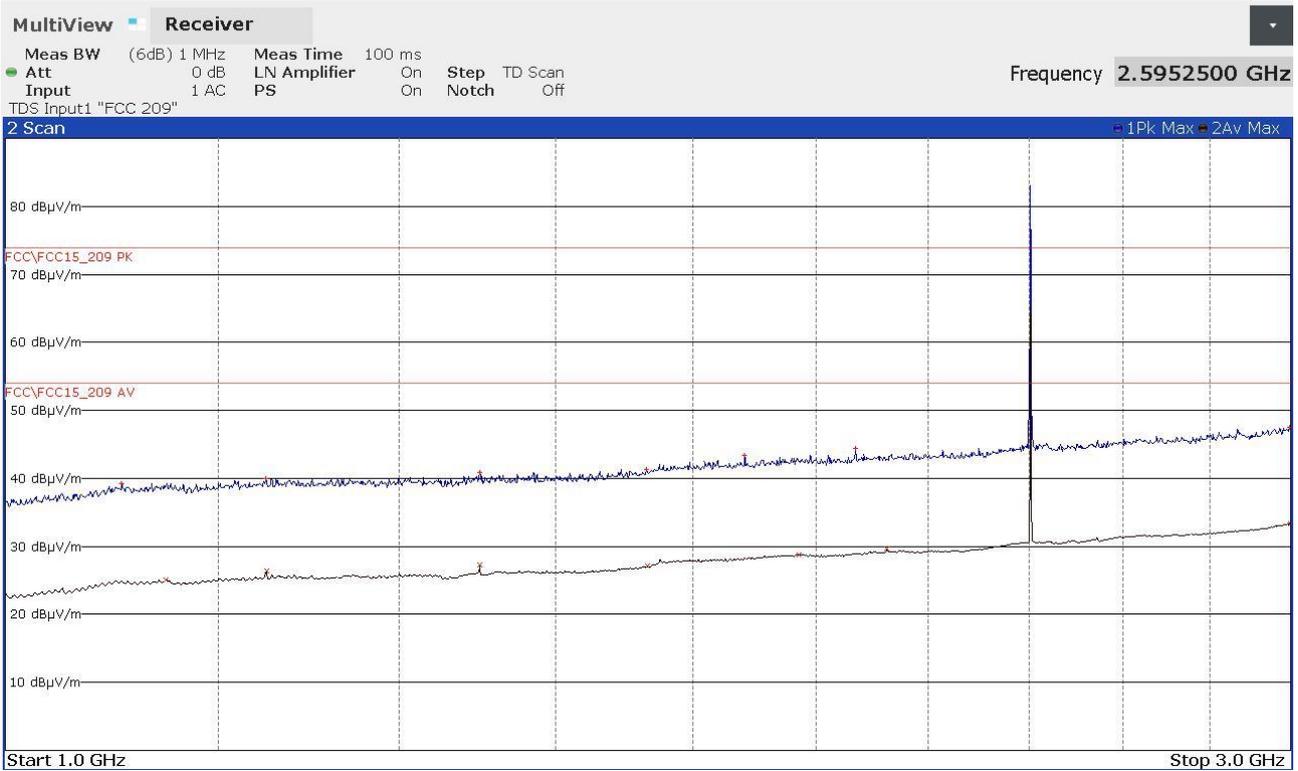


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1074750000	+41,09	-32,89	1000000000	+30,36	-23,62
1279000000	+40,74	-33,24	1250000000	+28,73	-25,25
1479250000	+40,93	-33,05	1500000000	+27,74	-26,24
1539500000	+41,84	-32,14	1695500000	+27,91	-26,07
1946750000	+43,48	-30,50	1750000000	+29,88	-24,10
2201750000	+44,21	-29,77	2125000000	+32,35	-21,63
2986000000	+48,03	-25,95	2998500000	+33,49	-20,49

22216801_2

Segalla 22216802

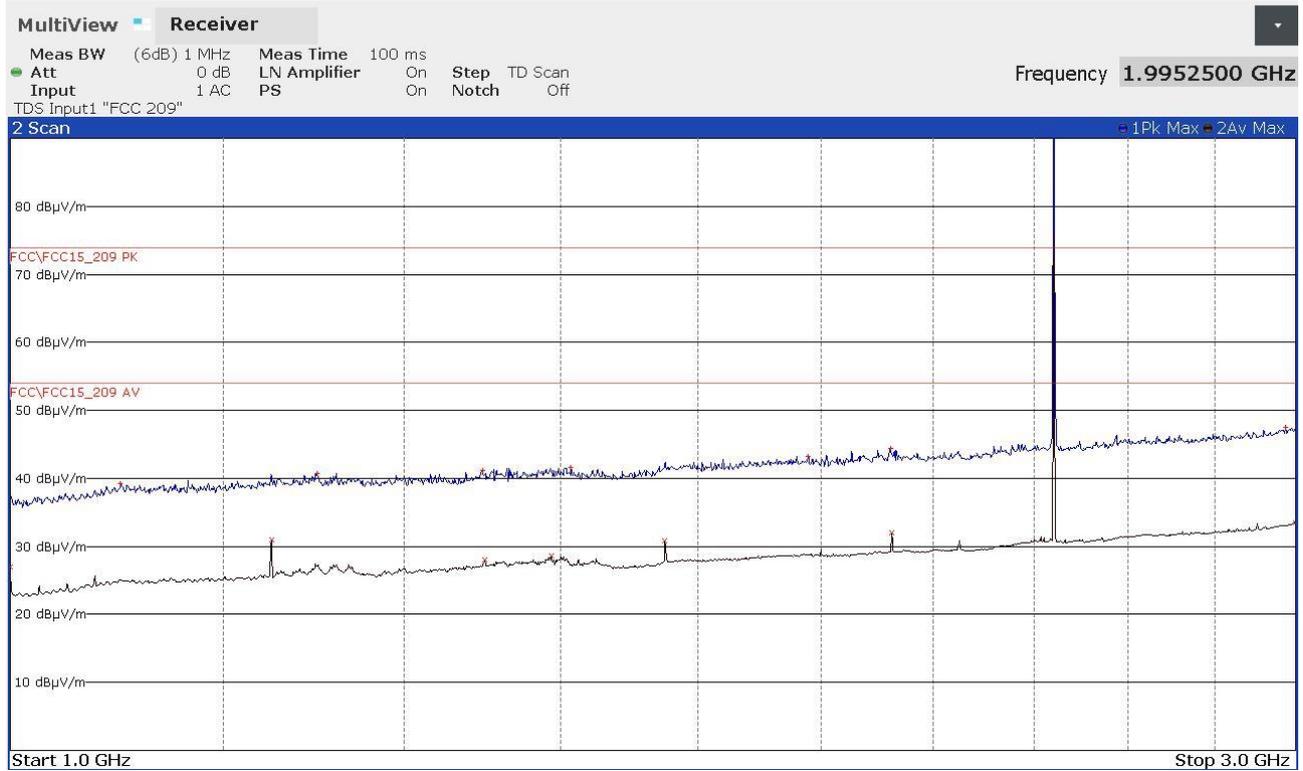


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1104750000	+39,26	-34,72	1147000000	+25,15	-28,83
1249750000	+40,02	-33,96	1250000000	+26,39	-27,59
1500500000	+40,94	-33,04	1500000000	+27,35	-26,63
1730000000	+41,33	-32,65	1731000000	+27,11	-26,87
1881500000	+43,34	-30,64	1971000000	+28,82	-25,16
2068000000	+44,34	-29,64	2125000000	+29,64	-24,34
2998250000	+47,54	-26,44	2998750000	+33,41	-20,57

22216802_2

Segalla 22216803

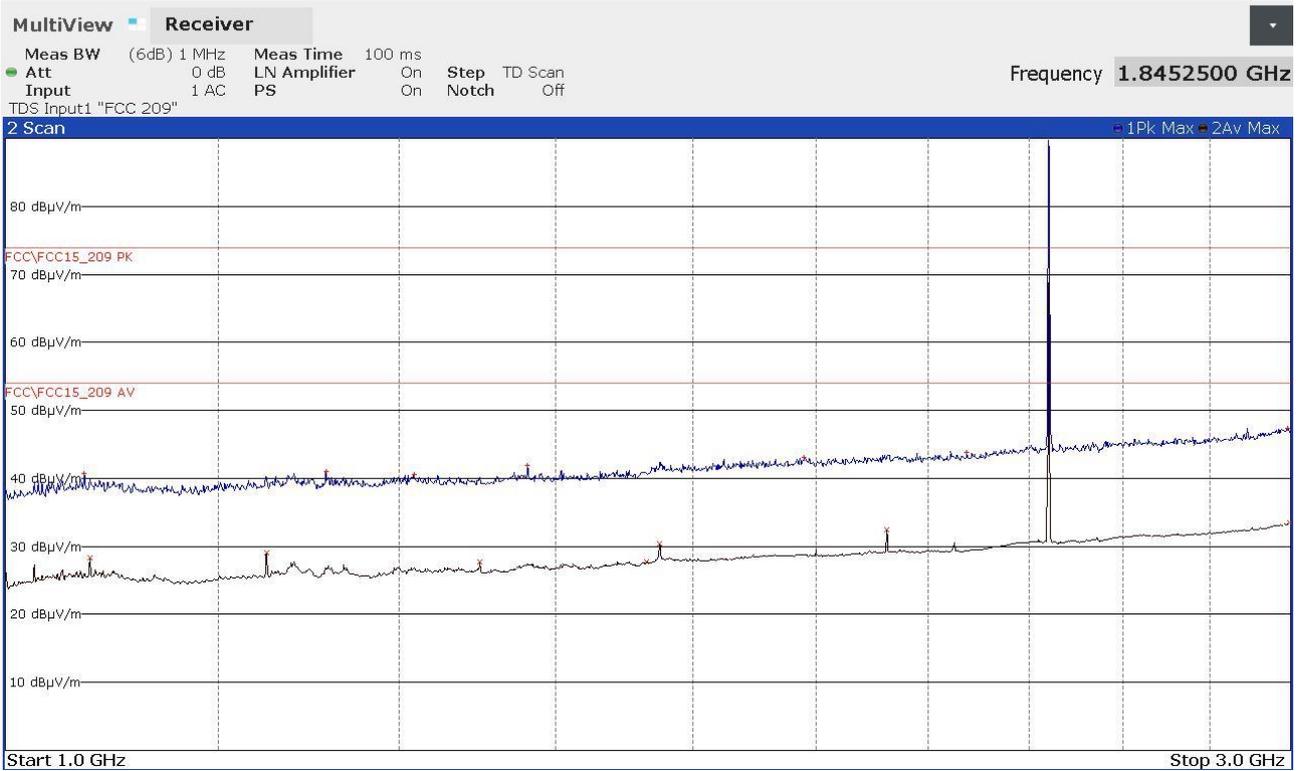


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1099000000	+39,27	-34,71	1000000000	+27,04	-26,94
1299750000	+40,66	-33,32	1250000000	+30,93	-23,05
1497250000	+41,21	-32,77	1500000000	+28,04	-25,94
1614750000	+41,55	-32,43	1587500000	+28,55	-25,43
1978000000	+43,26	-30,72	1750000000	+30,79	-23,19
2121500000	+44,37	-29,61	2125000000	+32,00	-21,98
2974250000	+47,46	-26,52	2999000000	+33,44	-20,54

22216803_2

Segalla 22216804

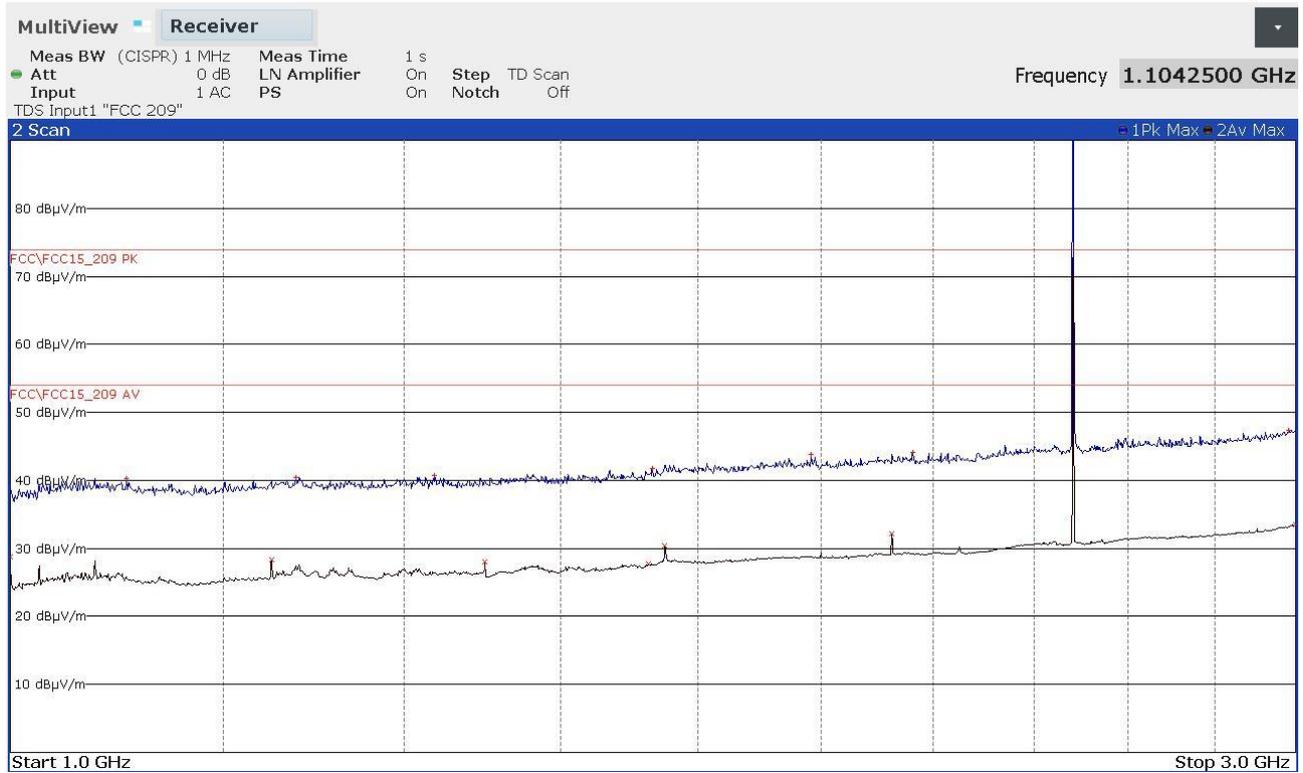


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1070000000	+40,70	-33,28	1075000000	+28,34	-25,64
1315250000	+41,07	-32,91	1250000000	+29,04	-24,94
1418250000	+40,56	-33,42	1500000000	+27,74	-26,24
1562750000	+41,87	-32,11	1729750000	+27,78	-26,20
1979750000	+43,02	-30,96	1750000000	+30,32	-23,66
2274500000	+43,78	-30,20	2125000000	+32,43	-21,55
2993000000	+47,40	-26,58	2998500000	+33,47	-20,51

22216804_2

Segalla 22216805

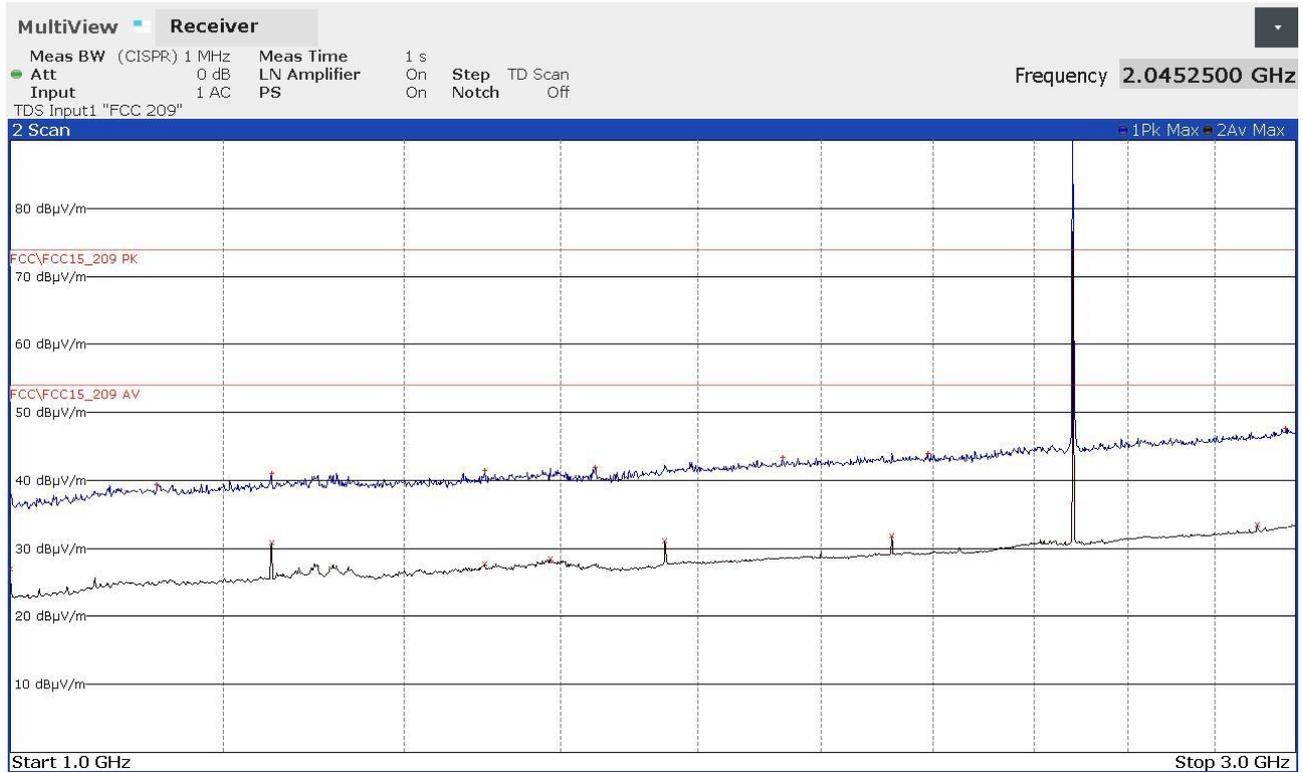


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1104250000	+40,34	-33,64	1000000000	+28,73	-25,25
1276750000	+40,37	-33,61	1250000000	+28,35	-25,63
1437250000	+40,66	-33,32	1500000000	+28,05	-25,93
1730750000	+41,82	-32,16	1725250000	+27,74	-26,24
1982250000	+43,76	-30,22	1750000000	+30,33	-23,65
2162250000	+44,16	-29,82	2125000000	+32,16	-21,82
2982750000	+47,38	-26,60	2998750000	+33,48	-20,50

22216805_2

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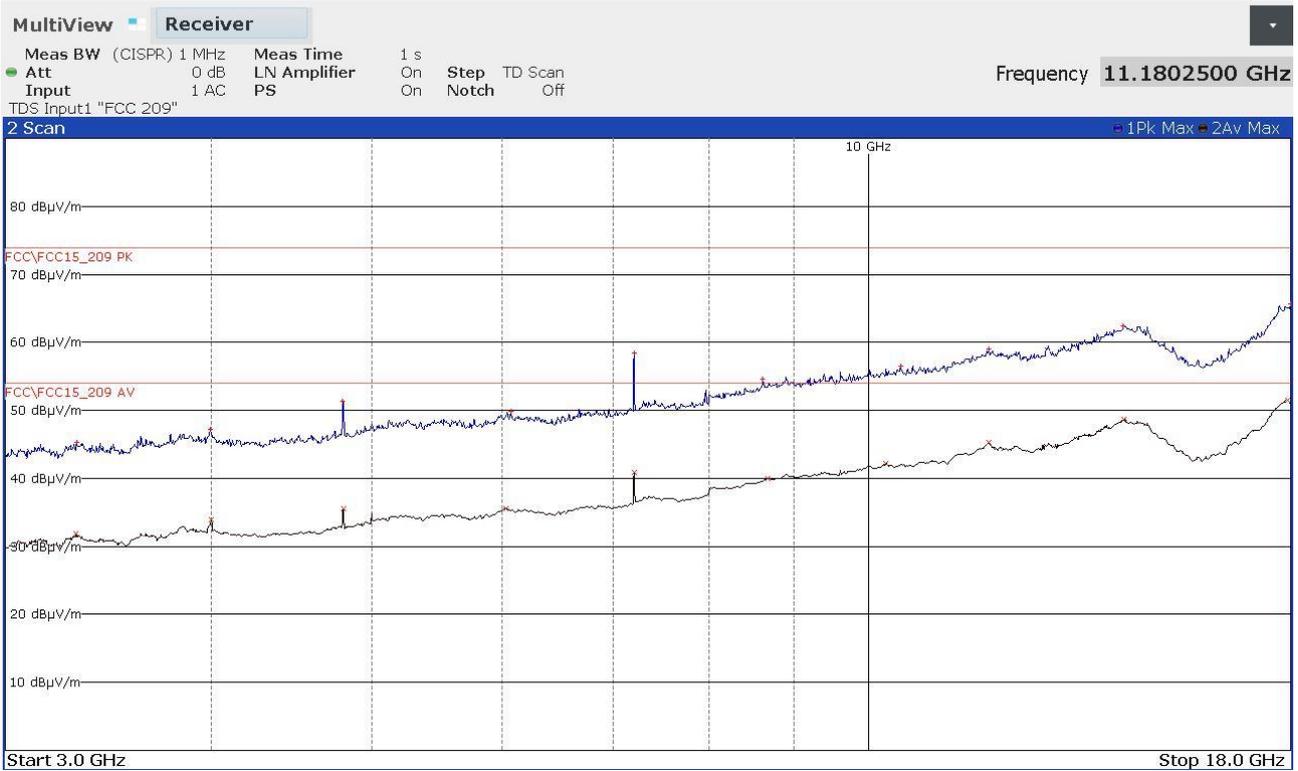


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
1133750000	+39,36	-34,62	1000000000	+27,06	-26,92
1250000000	+40,97	-33,01	1250000000	+30,77	-23,21
1500250000	+41,42	-32,56	1500000000	+27,75	-26,23
1648500000	+41,94	-32,04	1586500000	+28,44	-25,54
1934750000	+43,31	-30,67	1750000000	+31,09	-22,89
2190500000	+44,01	-29,97	2125000000	+31,81	-22,17
2975250000	+47,68	-26,30	2903000000	+33,44	-20,54

22216806_2

Segalla 22216811

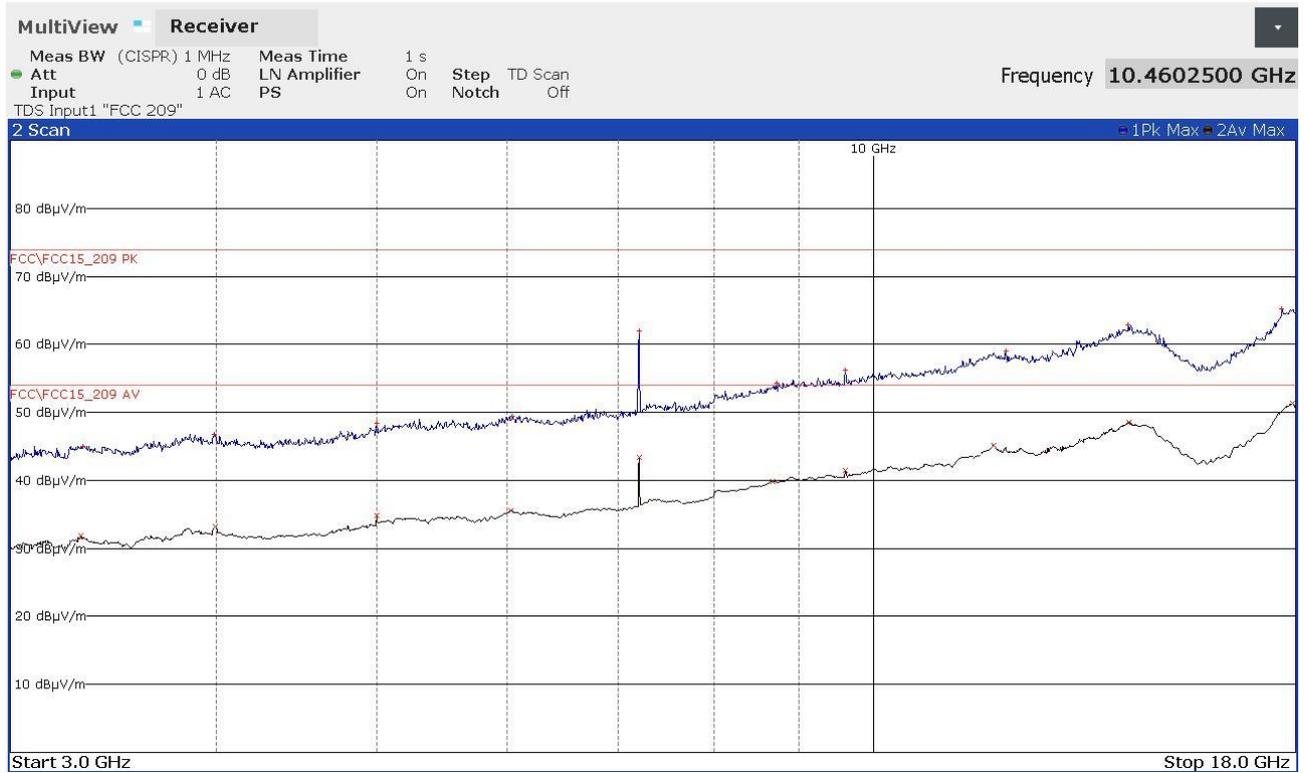


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
3313500000	+45,29	-28,69	3312000000	+31,82	-22,16
3990500000	+47,18	-26,80	3999750000	+33,89	-20,09
4803500000	+51,40	-22,58	4804000000	+35,56	-18,42
6071500000	+49,83	-24,15	6028500000	+35,60	-18,38
7206000000	+58,41	-15,57	7205500000	+40,94	-13,04
8617250000	+54,62	-19,36	8680000000	+39,98	-14,00
10453000000	+56,54	-17,44	10240000000	+42,21	-11,77
11817750000	+58,99	-14,99	11819500000	+45,23	-8,75
14249250000	+62,40	-11,58	14278000000	+48,71	-5,27
17995500000	+65,61	-8,37	17920000000	+51,54	-2,44

22216811_2

Segalla 22216812

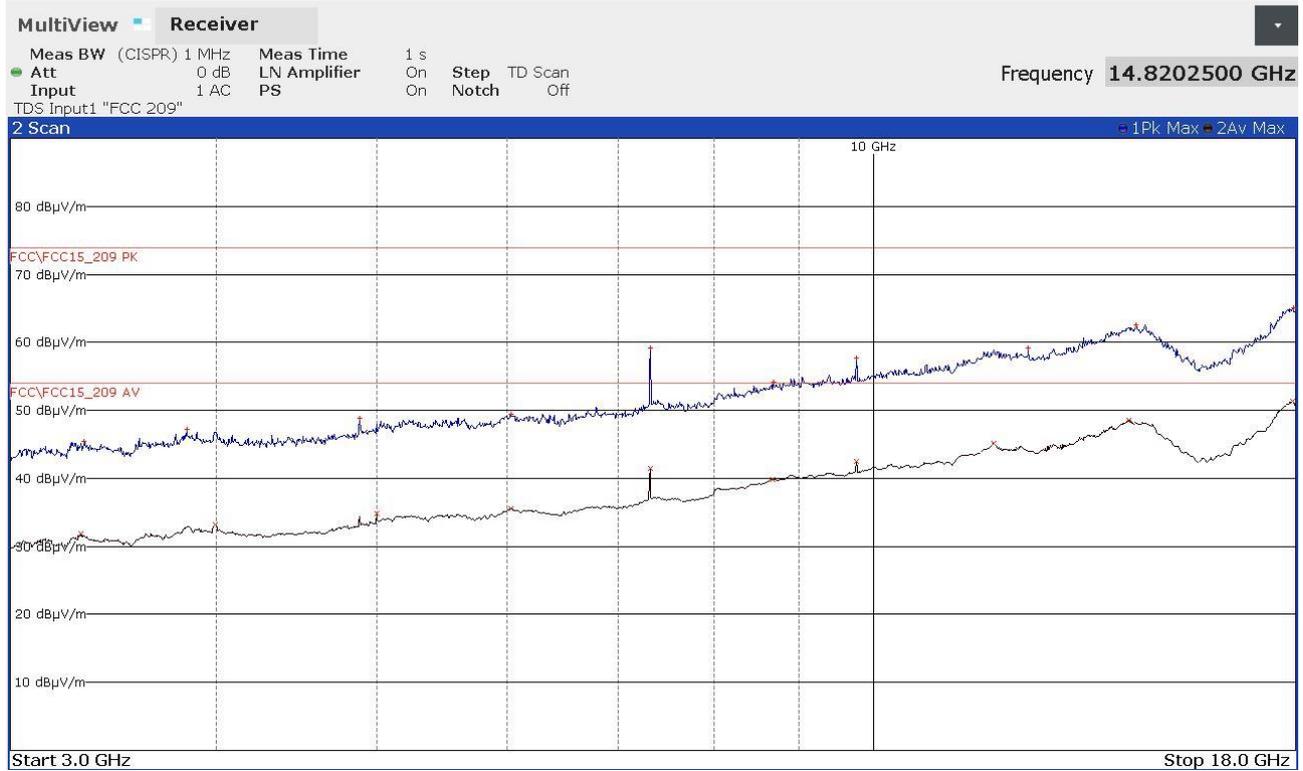


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
3321750000	+45,04	-28,94	3311750000	+31,86	-22,12
3987000000	+46,77	-27,21	3991000000	+33,24	-20,74
4999500000	+48,38	-25,60	4999750000	+34,82	-19,16
6038750000	+49,41	-24,57	6029000000	+35,58	-18,40
7206750000	+61,96	-12,02	7205500000	+43,35	-10,63
8731250000	+54,35	-19,63	8679500000	+39,87	-14,11
9607250000	+56,23	-17,75	9607250000	+41,50	-12,48
12011250000	+59,04	-14,94	11820000000	+45,11	-8,87
14252500000	+62,80	-11,18	14277500000	+48,59	-5,39
17655750000	+65,19	-8,79	17920000000	+51,32	-2,66

22216812_2

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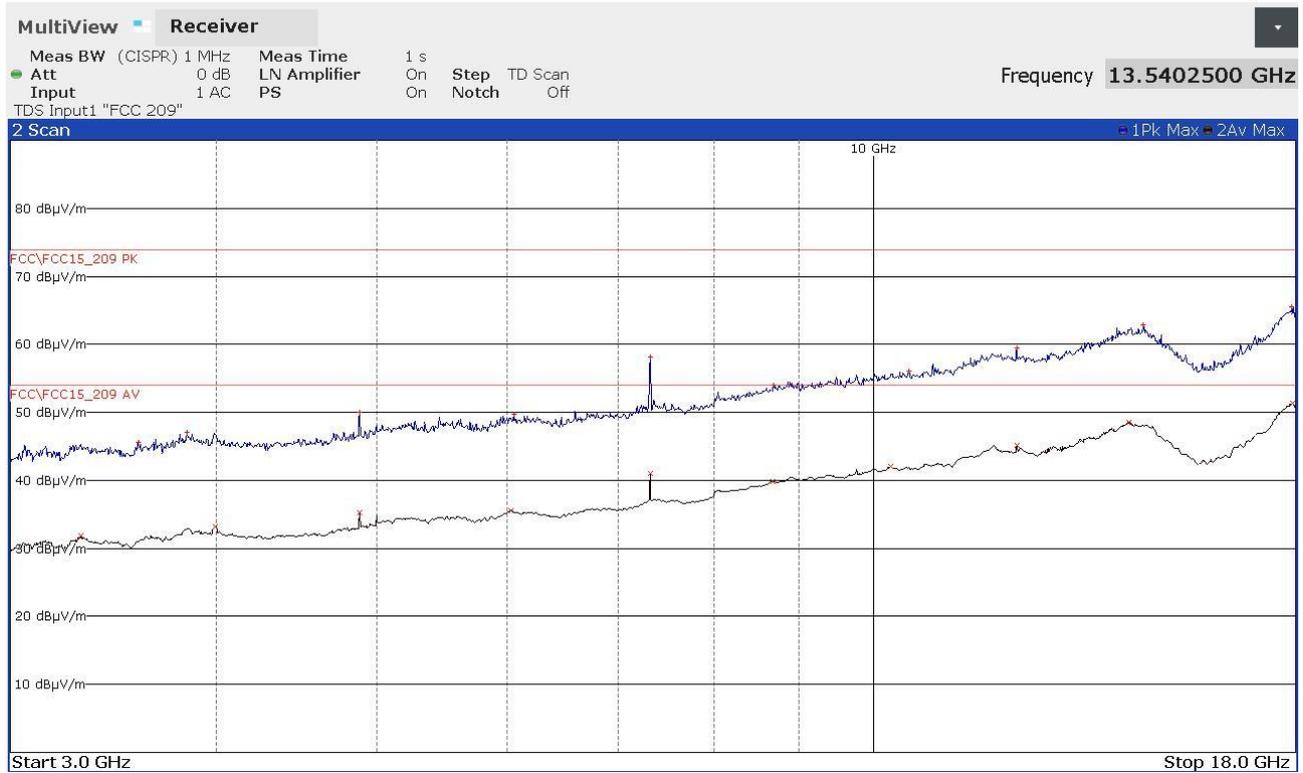


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
3325250000	+45,48	-28,50	3311500000	+31,85	-22,13
3838750000	+47,16	-26,82	3991500000	+33,24	-20,74
4879500000	+48,83	-25,15	4999750000	+34,82	-19,16
6026500000	+49,40	-24,58	6029000000	+35,58	-18,40
7319500000	+59,16	-14,82	7319500000	+41,43	-12,55
8690000000	+54,09	-19,89	8679500000	+39,89	-14,09
9760000000	+57,76	-16,22	9759250000	+42,44	-11,54
12393500000	+59,15	-14,83	11819250000	+45,11	-8,87
14415250000	+62,58	-11,40	14278500000	+48,59	-5,39
17958250000	+65,04	-8,94	17920000000	+51,31	-2,67

22216813_2

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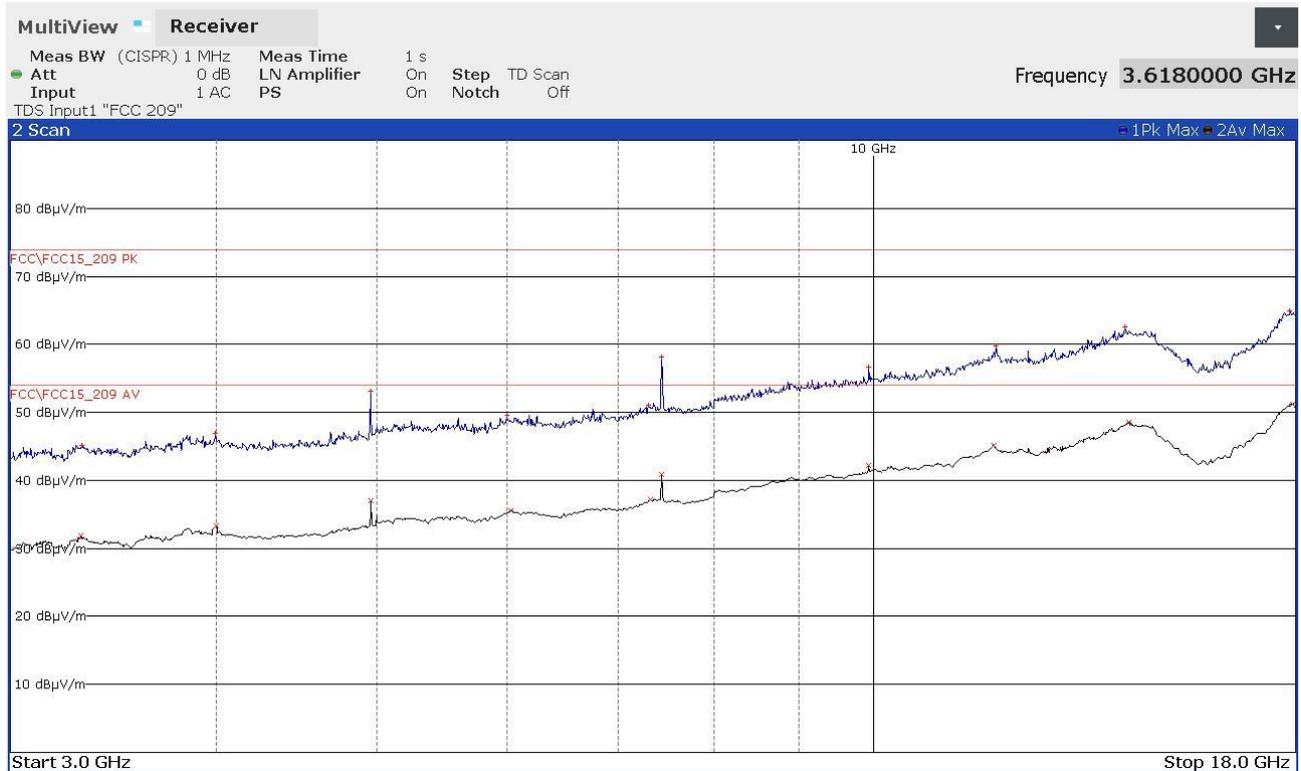


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
3584750000	+45,59	-28,39	3312250000	+31,86	-22,12
3838000000	+47,04	-26,94	3991250000	+33,26	-20,72
4880000000	+50,07	-23,91	4879750000	+35,23	-18,75
6055250000	+49,77	-24,21	6028500000	+35,56	-18,42
7319250000	+58,13	-15,85	7319500000	+41,02	-12,96
8693000000	+54,01	-19,97	8679250000	+39,86	-14,12
10502000000	+56,12	-17,86	10240000000	+42,11	-11,87
12199000000	+59,47	-14,51	12199000000	+45,19	-8,79
14556750000	+62,81	-11,17	14277250000	+48,59	-5,39
17896250000	+65,46	-8,52	17920000000	+51,31	-2,67

22216814_2

Segalla 22216815

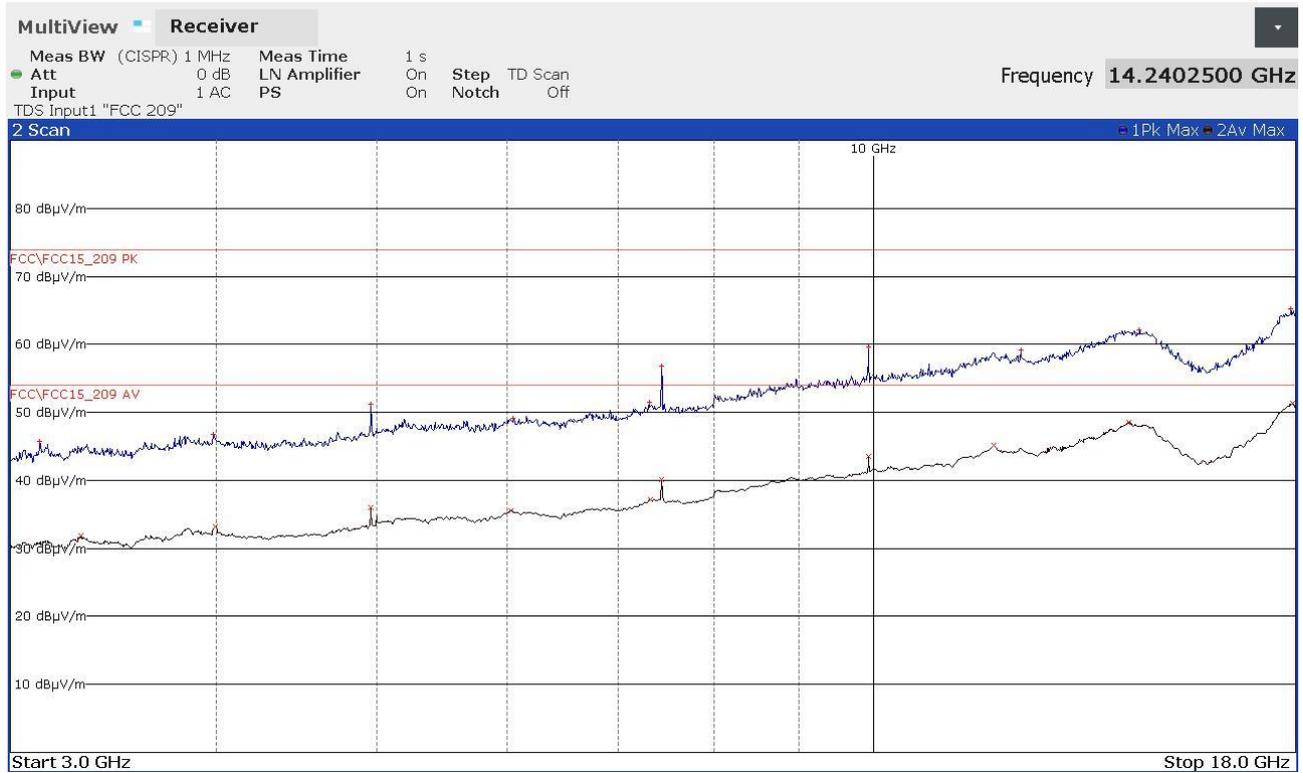


FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
3315250000	+45,14	-28,84	3312000000	+31,85	-22,13
3992000000	+46,94	-27,04	3999750000	+33,37	-20,61
4959500000	+53,09	-20,89	4959750000	+37,07	-16,91
5994500000	+49,53	-24,45	6029000000	+35,57	-18,41
7301000000	+51,05	-22,93	7321750000	+37,17	-16,81
7439250000	+58,14	-15,84	7439500000	+40,93	-13,05
9919000000	+56,59	-17,39	9919250000	+42,21	-11,77
11852250000	+59,71	-14,27	11819750000	+45,10	-8,88
14191750000	+62,51	-11,47	14279250000	+48,58	-5,40
17854000000	+64,87	-9,11	17920000000	+51,27	-2,71

22216815_2

Segalla 22216816



FINAL RESULT TABLE

MAX PEAK			AVERAGE		
Freq Hz	Lev dBuV/m	Margin dB	Freq Hz	Lev dBuV/m	Margin dB
3125750000	+45,81	-28,17	3311750000	+31,87	-22,11
3982500000	+46,74	-27,24	3990750000	+33,24	-20,74
4960250000	+51,14	-22,84	4959750000	+36,02	-17,96
6048750000	+49,08	-24,90	6028500000	+35,56	-18,42
7310750000	+51,42	-22,56	7322250000	+37,16	-16,82
7439250000	+56,87	-17,11	7439500000	+40,20	-13,78
9919000000	+59,68	-14,30	9919250000	+43,52	-10,46
12273500000	+59,15	-14,83	11819750000	+45,11	-8,87
14480000000	+62,06	-11,92	14278250000	+48,58	-5,40
17879750000	+65,14	-8,84	17920000000	+51,28	-2,70

22216816_2