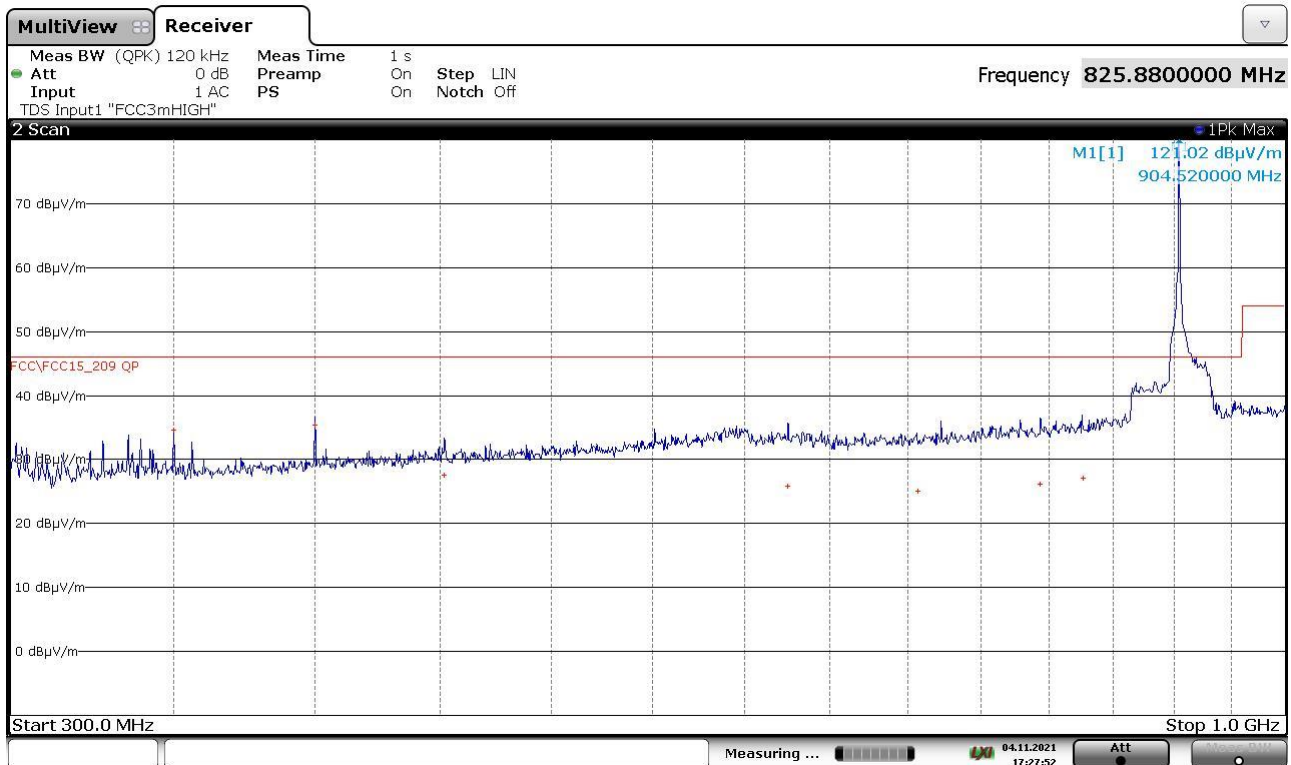


Panozzo 21232442



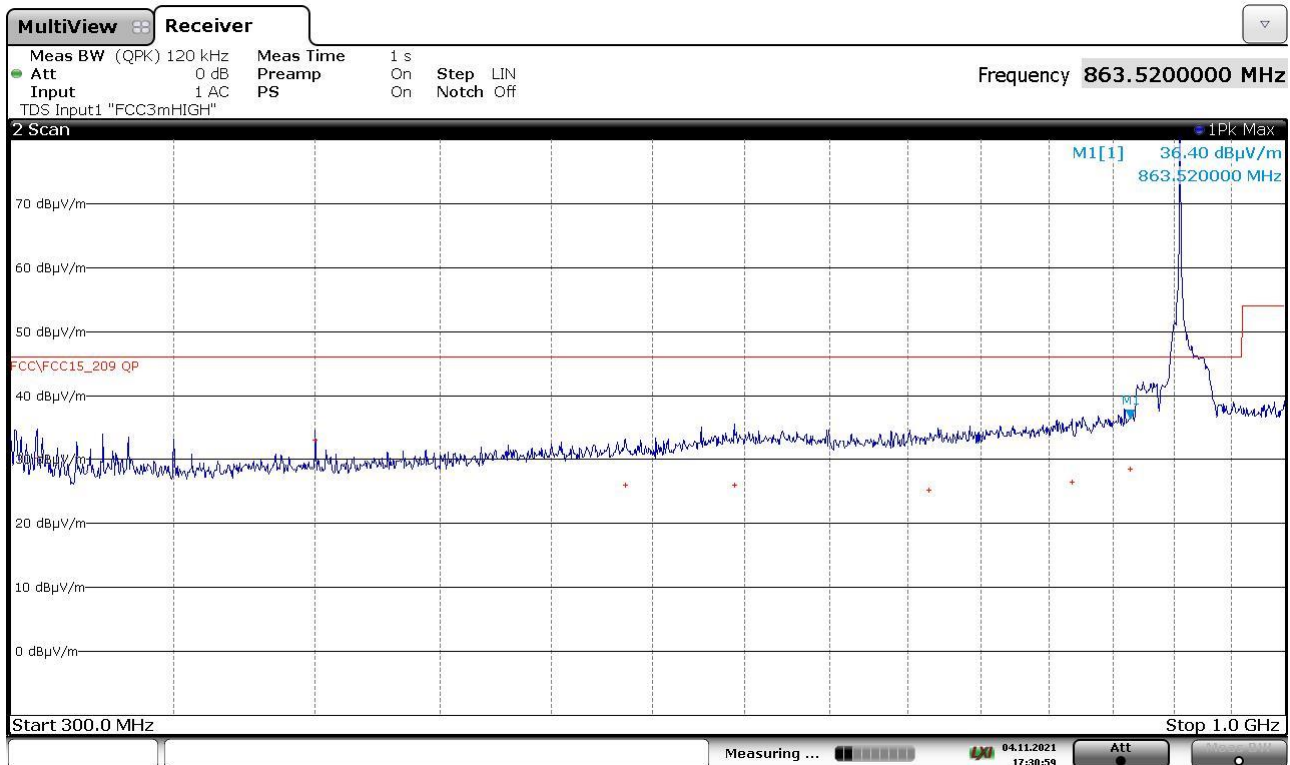
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
350000000	+34,65	-11,37
400000000	+35,43	-10,59
452000000	+27,54	-18,48
625240000	+25,83	-20,19
706720000	+24,99	-21,03
793520000	+26,11	-19,91
825880000	+27,10	-18,92

21232442_2

Panozzo 21232443



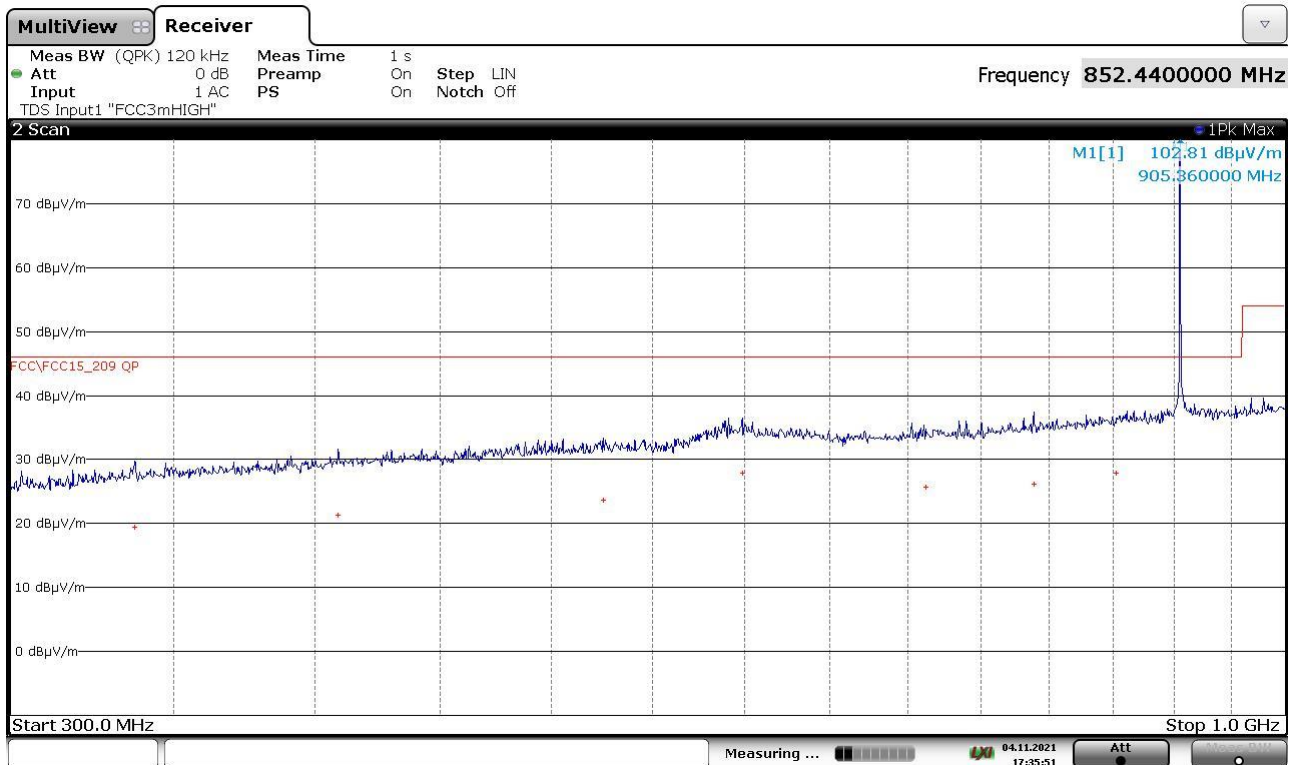
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
307680000	+30,22	-15,80
400000000	+33,01	-13,01
536000000	+26,02	-20,00
594240000	+26,05	-19,97
714280000	+25,25	-20,77
817400000	+26,47	-19,55
863520000	+28,51	-17,51

21232443_2

Panozzo 21232444



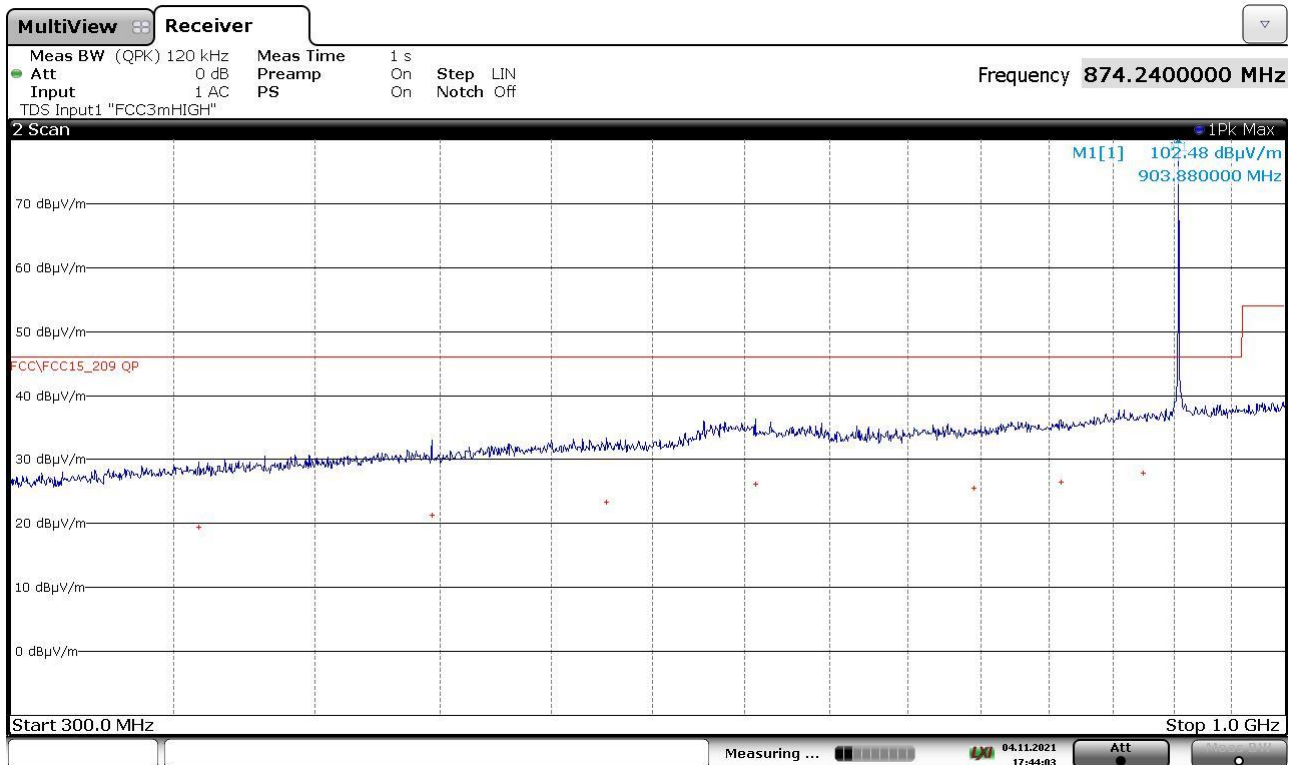
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
337480000	+19,35	-26,67
408800000	+21,32	-24,70
524960000	+23,69	-22,33
598720000	+27,91	-18,11
712080000	+25,68	-20,34
788560000	+26,17	-19,85
852440000	+27,83	-18,19

21232444_2

Panozzo 21232445



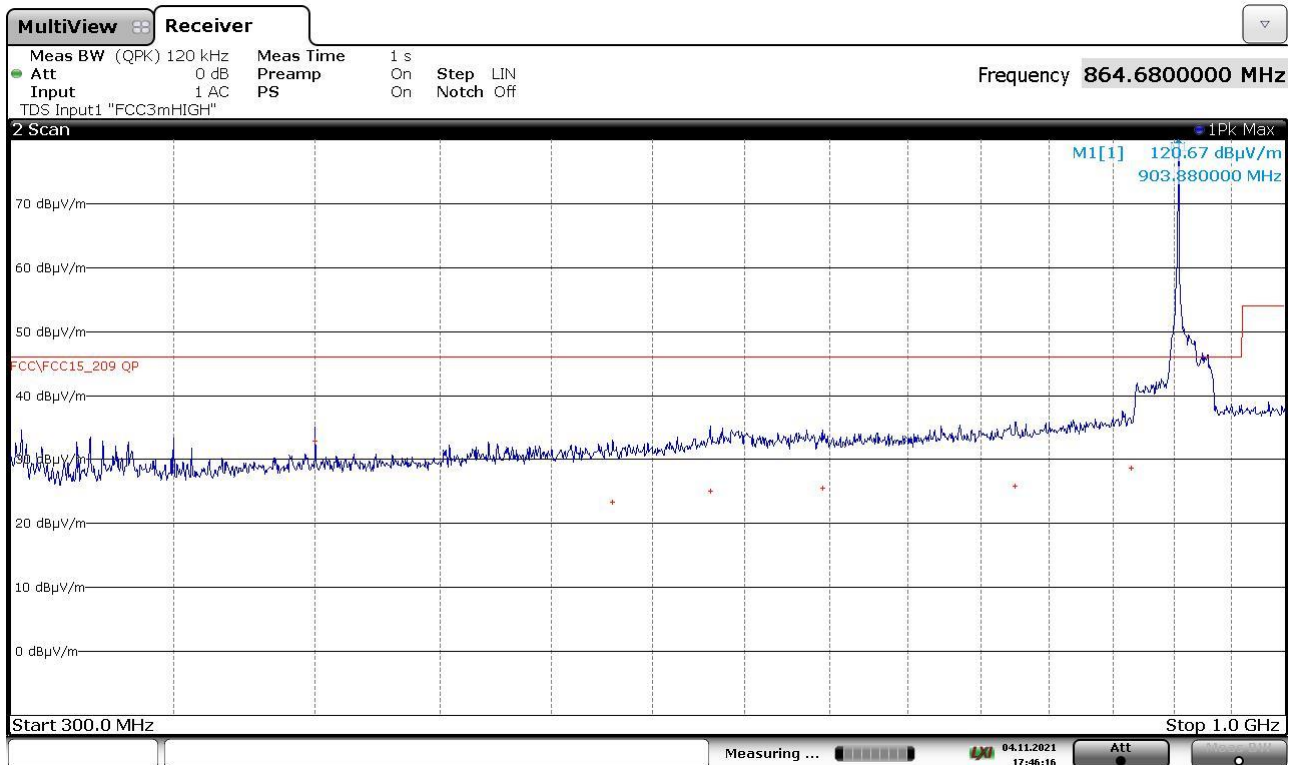
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
358400000	+19,50	-26,52
446680000	+21,34	-24,68
526720000	+23,35	-22,67
606360000	+26,14	-19,88
745240000	+25,50	-20,52
809080000	+26,46	-19,56
874240000	+27,91	-18,11

21232445_2

Panozzo 21232446



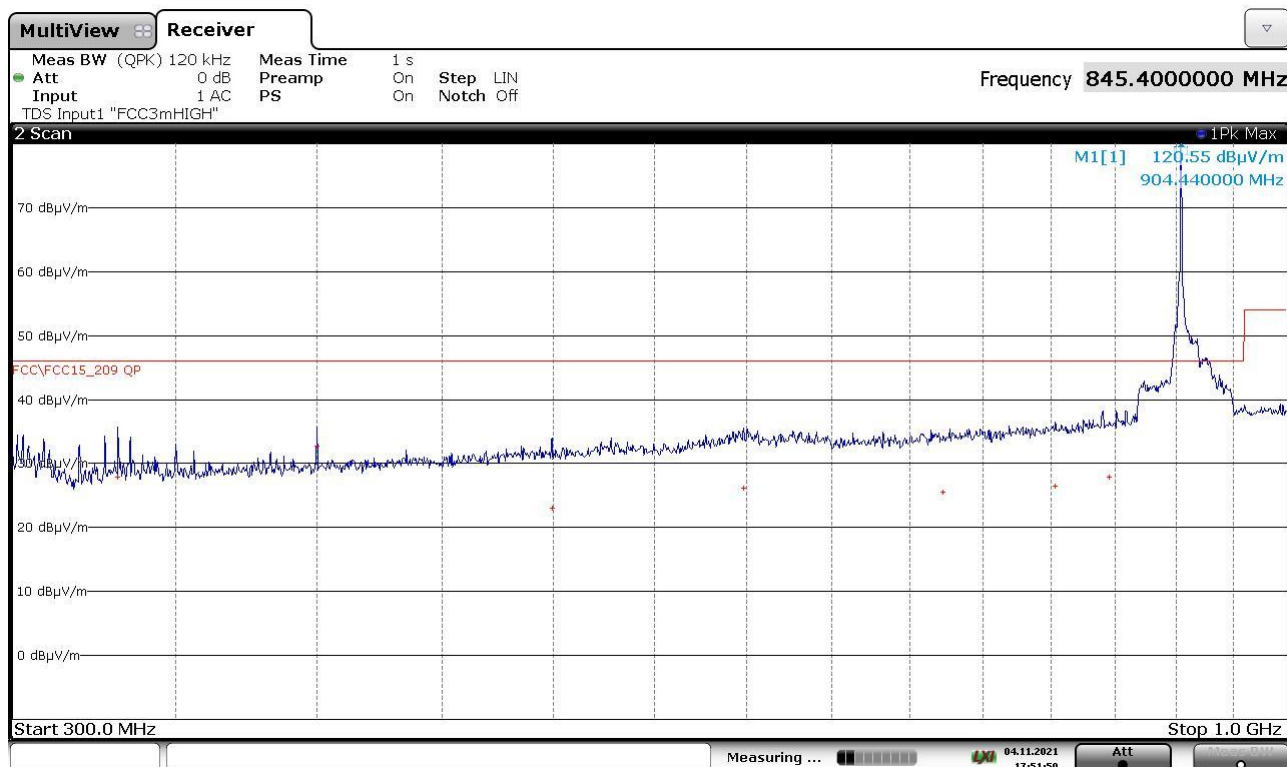
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
303160000	+29,87	-16,15
400000000	+32,96	-13,06
529800000	+23,39	-22,63
580960000	+25,12	-20,90
645800000	+25,49	-20,53
774960000	+25,90	-20,12
864680000	+28,63	-17,39

21232446_2

Panozzo 21232447



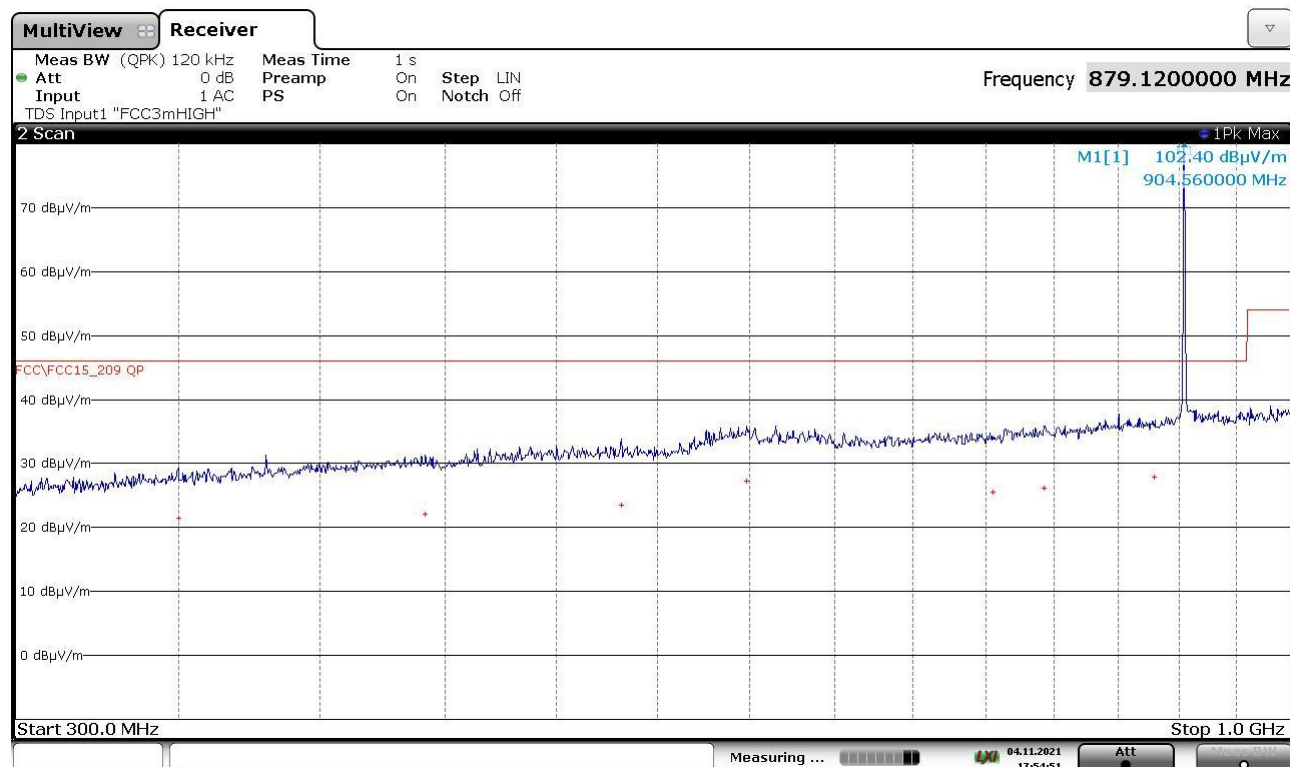
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
331320000	+27,90	-18,12
400000000	+32,72	-13,30
499240000	+23,03	-22,99
598440000	+26,21	-19,81
722520000	+25,47	-20,55
803280000	+26,50	-19,52
845400000	+27,89	-18,13

21232447_2

Panozzo 21232448



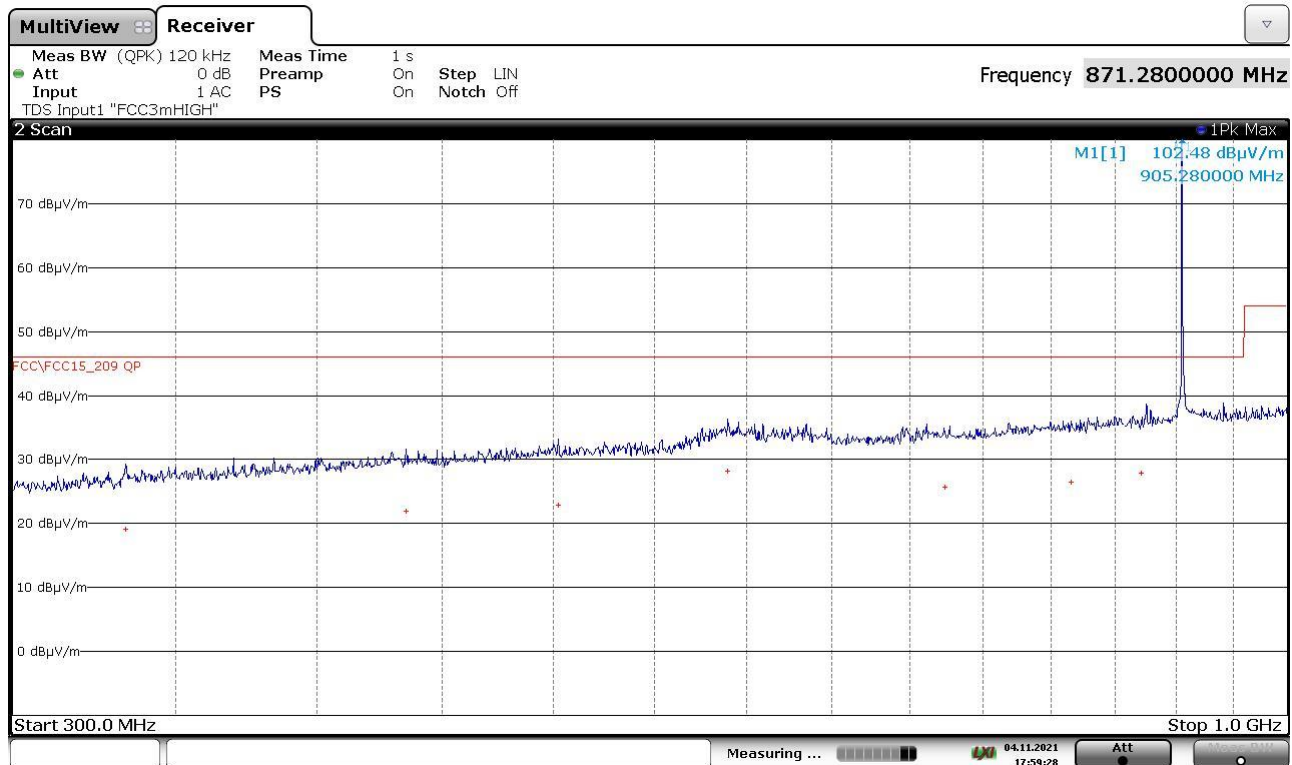
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
349960000	+21,46	-24,56
441800000	+22,11	-23,91
531640000	+23,53	-22,49
598400000	+27,31	-18,71
755360000	+25,56	-20,46
792280000	+26,17	-19,85
879120000	+27,88	-18,14

21232448_2

Panozzo 21232449



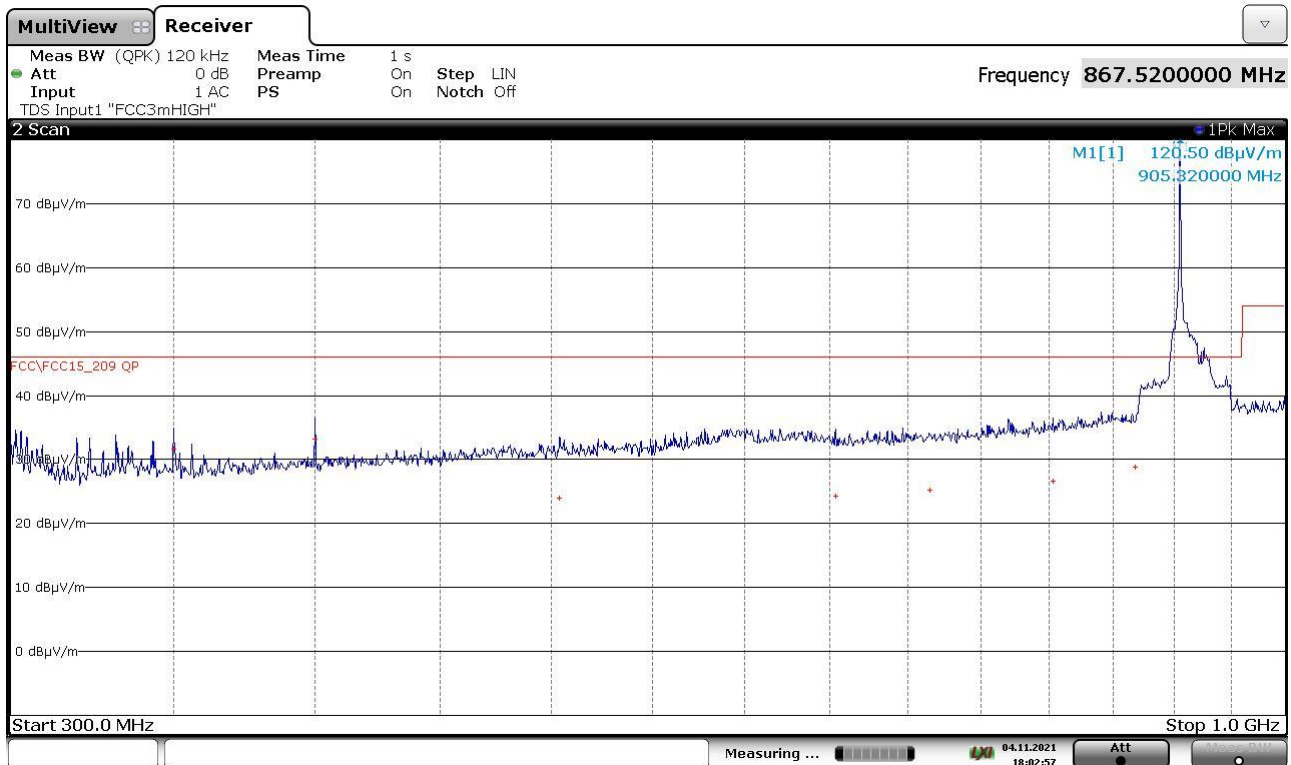
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
333920000	+19,10	-26,92
434920000	+22,00	-24,02
502360000	+22,87	-23,15
589280000	+28,23	-17,79
723760000	+25,75	-20,27
815320000	+26,46	-19,56
871280000	+27,86	-18,16

21232449_2

Panozzo 21232450



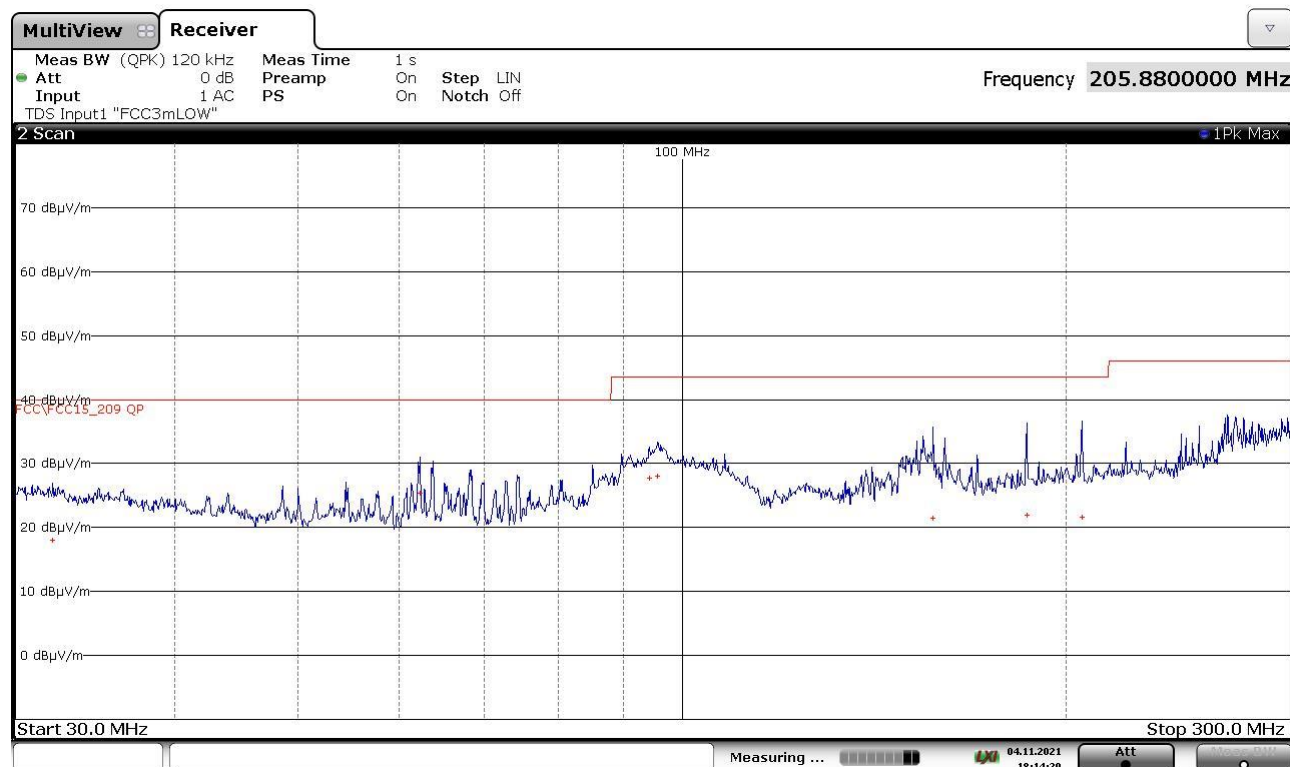
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
350000000	+31,57	-14,45
400000000	+33,18	-12,84
503960000	+24,02	-22,00
653800000	+24,29	-21,73
714800000	+25,24	-20,78
802760000	+26,56	-19,46
867520000	+28,75	-17,27

21232450_2

Panozzo 212324A50



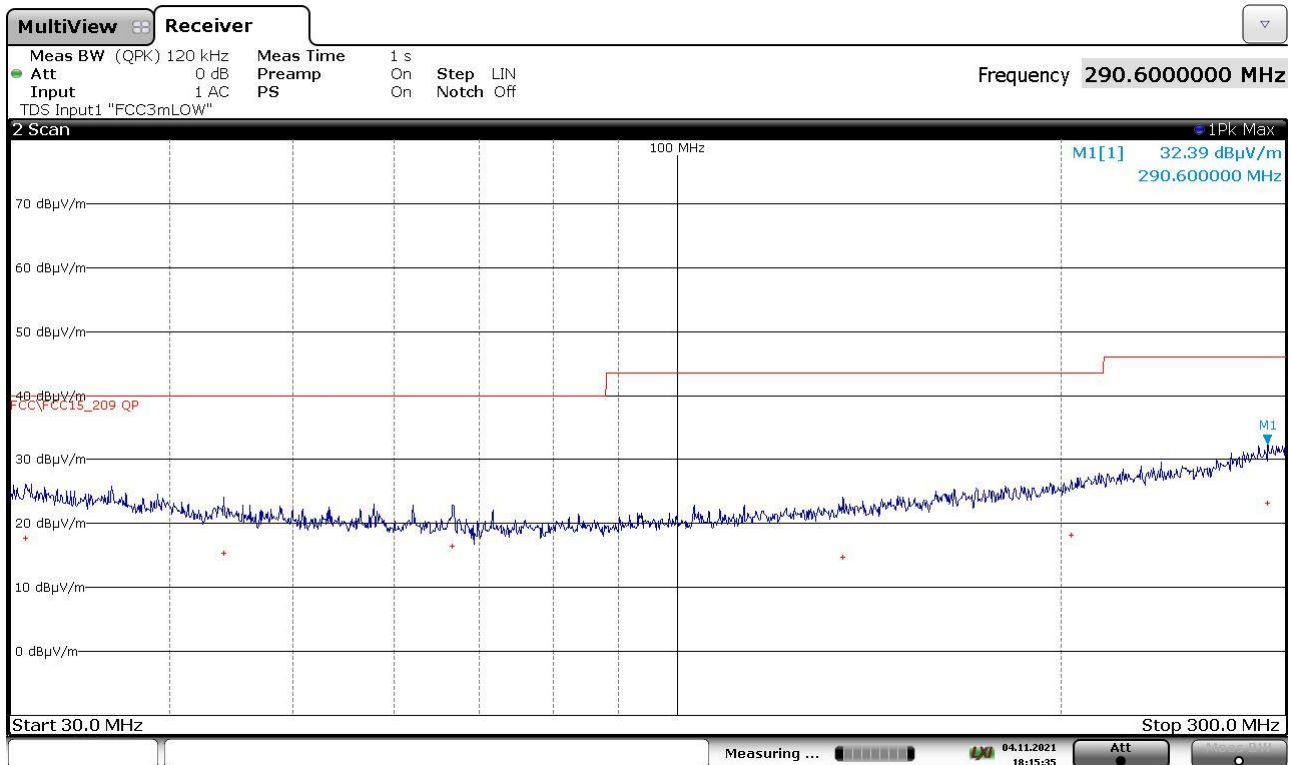
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
32080000	+17,99	-22,01
62280000	+25,44	-14,56
94200000	+27,73	-15,79
95720000	+28,10	-15,42
157360000	+21,46	-22,06
186400000	+22,00	-21,52
205880000	+21,68	-21,84

212324A50_2

Panozzo 212324A51



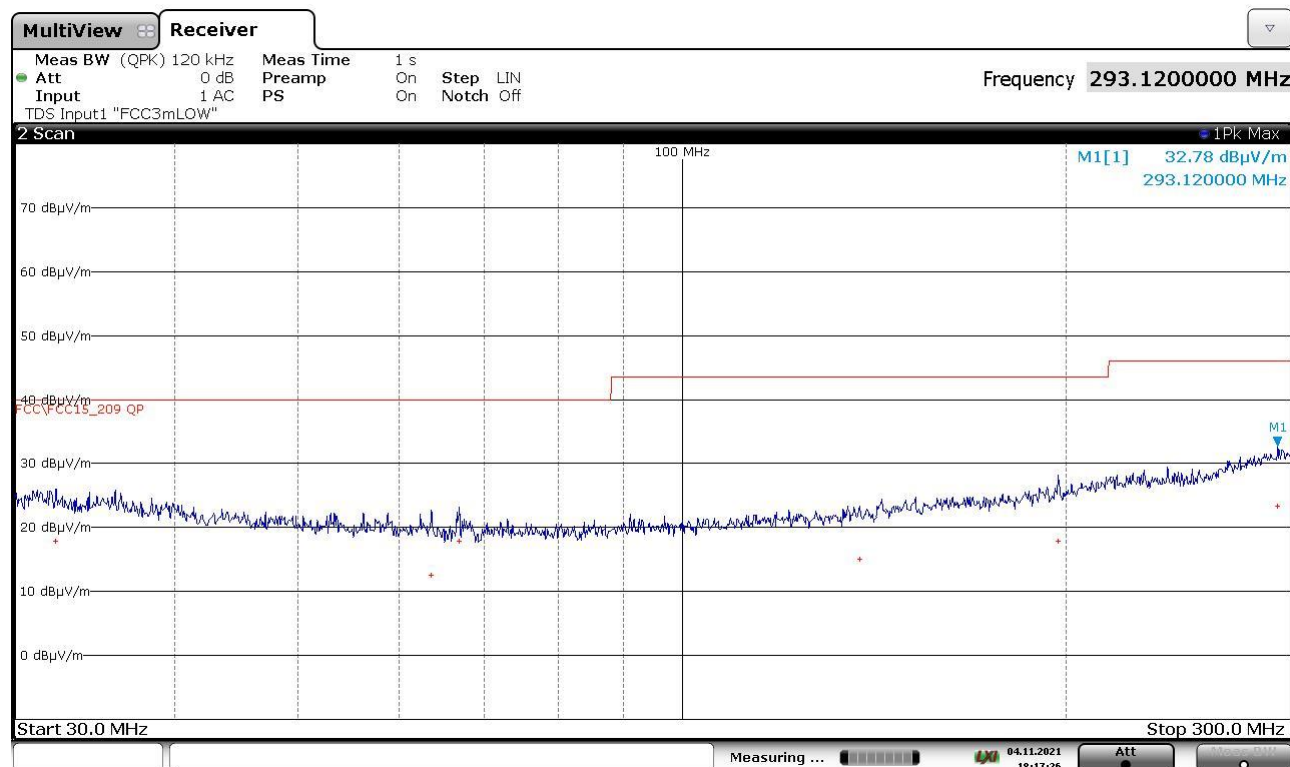
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
30840000	+17,78	-22,22
44080000	+15,42	-24,58
66640000	+16,53	-23,47
134960000	+14,77	-28,75
203840000	+18,12	-25,40
290600000	+23,18	-22,84

212324A51_2

Panozzo 212324A52



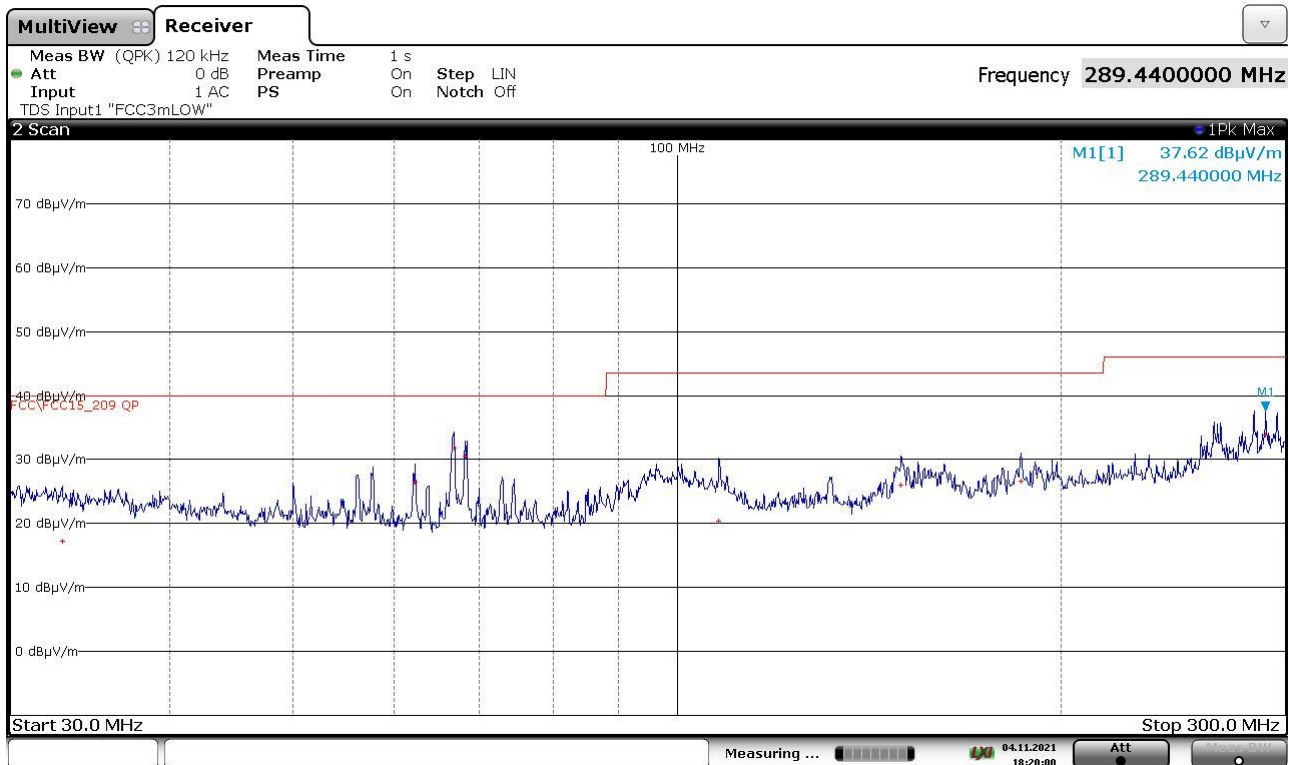
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
32280000	+17,81	-22,19
63600000	+12,50	-27,50
66880000	+17,88	-22,12
137760000	+15,01	-28,51
197160000	+17,89	-25,63
293120000	+23,30	-22,72

212324A52_2

Panozzo 212324A53



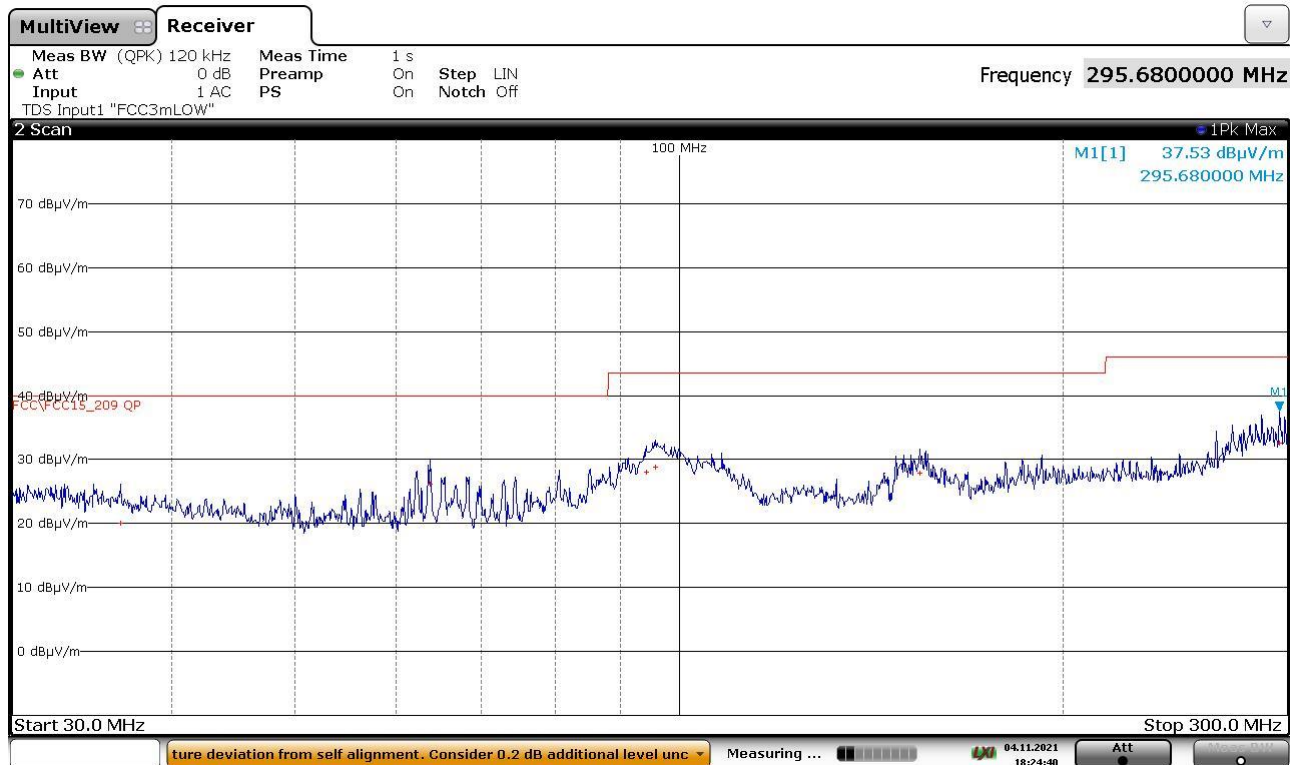
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
32960000	+17,16	-22,84
62320000	+26,50	-13,50
66840000	+31,81	-8,19
68160000	+30,52	-9,48
107840000	+20,33	-23,19
149920000	+25,96	-17,56
186000000	+26,59	-16,93
289440000	+33,82	-12,20

212324A53_2

Panozzo 212324A54



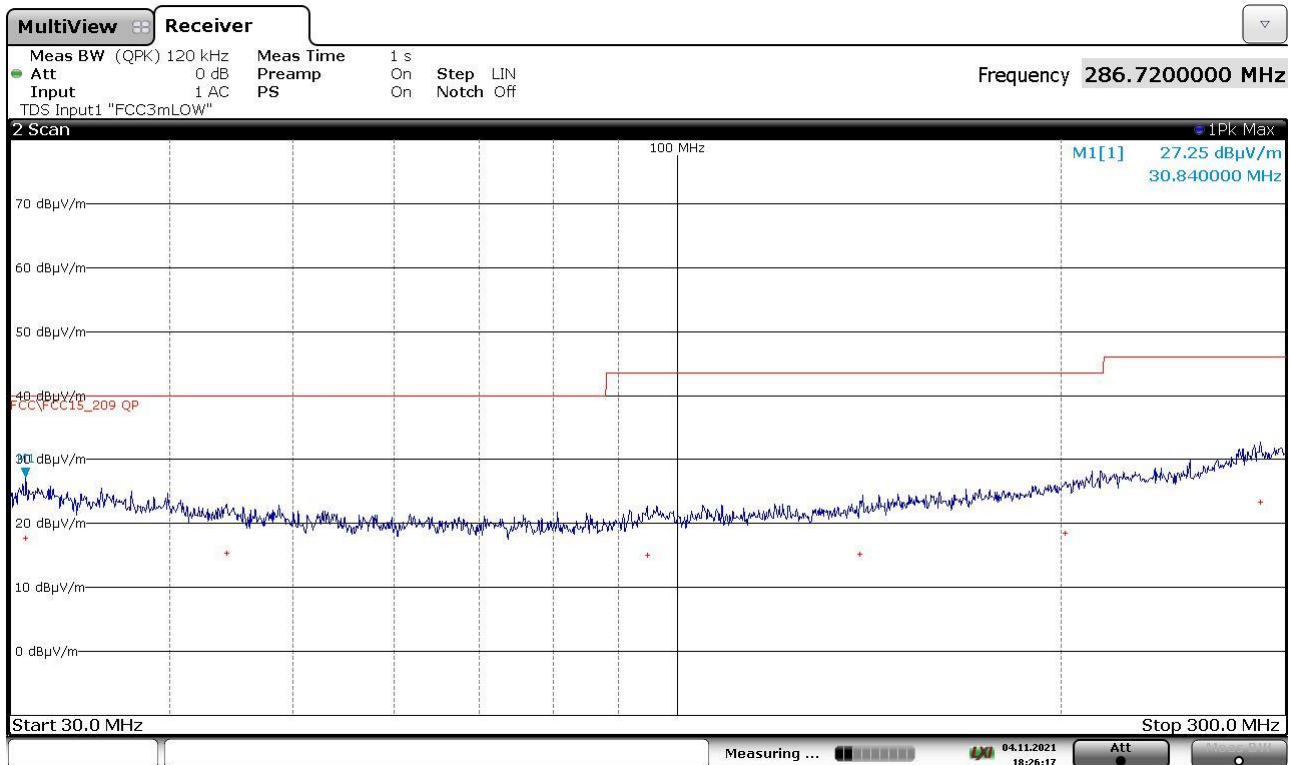
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
36480000	+20,05	-19,95
63800000	+26,08	-13,92
94240000	+28,03	-15,49
95760000	+28,82	-14,70
154520000	+27,95	-15,57
295680000	+32,61	-13,41

212324A54_2

Panozzo 212324A55



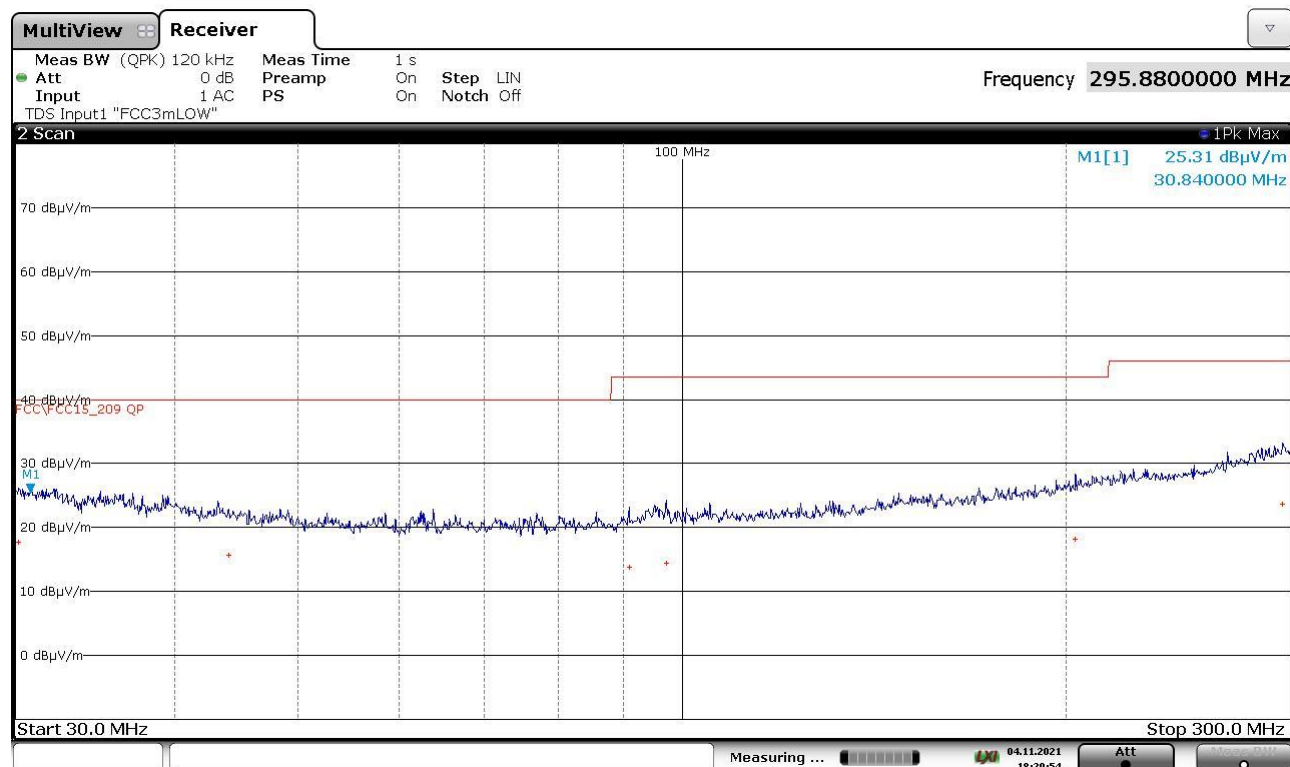
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
30840000	+17,76	-22,24
44320000	+15,42	-24,58
94720000	+14,97	-28,55
139080000	+15,13	-28,39
201640000	+18,53	-24,99
286720000	+23,40	-22,62

212324A55_2

Panozzo 212324A56



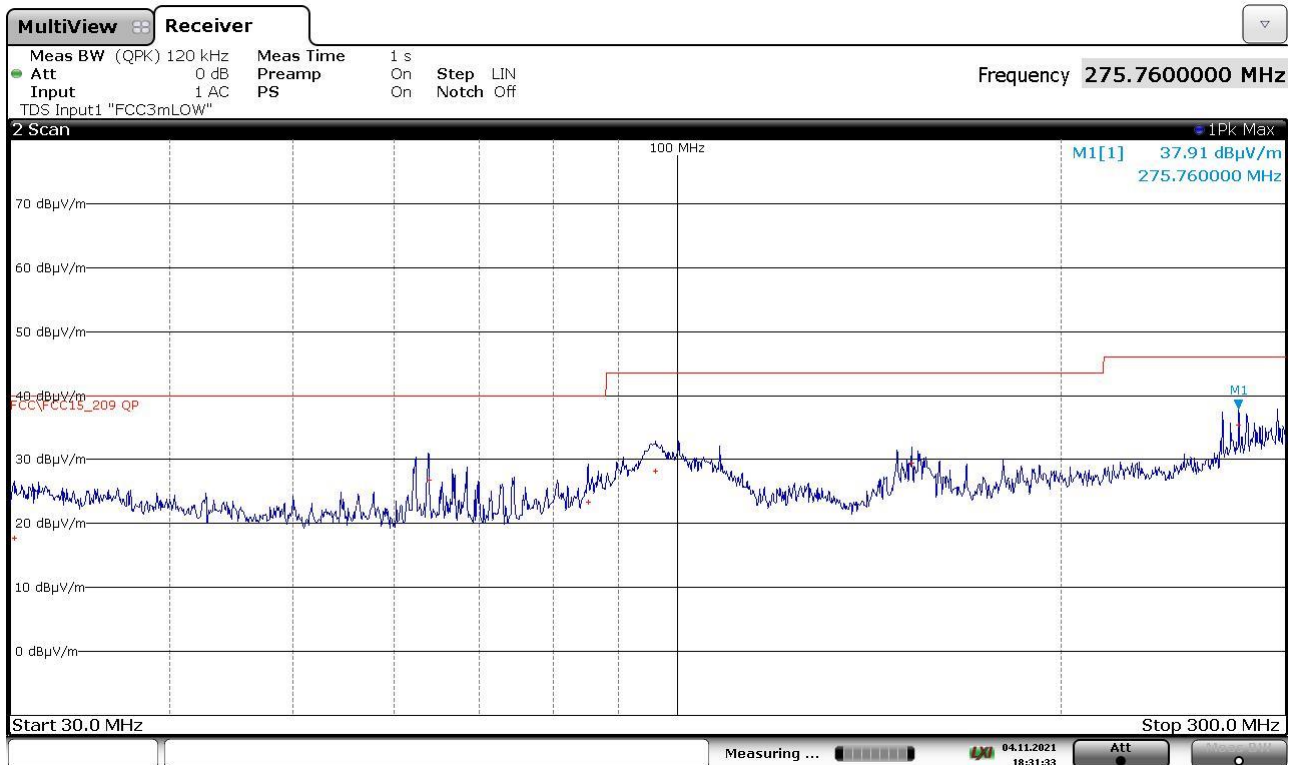
FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
30160000	+17,68	-22,32
44080000	+15,64	-24,36
90960000	+13,76	-29,76
97160000	+14,48	-29,04
203520000	+18,14	-25,38
295880000	+23,63	-22,39

212324A56_2

Panozzo 212324A57



FINAL RESULT TABLE

QUASI PEAK

Freq Hz	Lev dBuV/m	Margin dB
30200000	+17,77	-22,23
63840000	+26,83	-13,17
85120000	+23,33	-16,67
96160000	+28,26	-15,26
152760000	+29,48	-14,04
275760000	+35,35	-10,67

212324A57_2

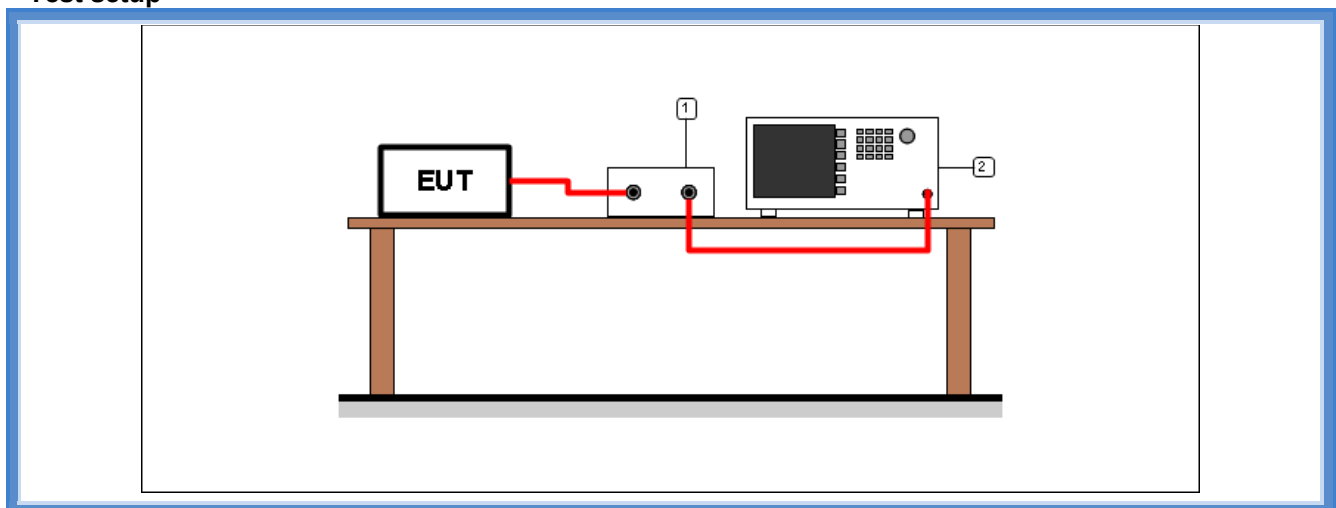
9.4 DTS bandwidth

Tested by	C. Panozzo
Test date	18.10.2021
Test location (stand)	Laboratory
Reference standards	FCC Rules and Regulation; Titles 47 Part 15.247 (a) (2) ANSI C63.10 cl. 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02 cl. 10 b) 3)
Supplementary test set-up description	--
Supplementary information.....	--

Acceptance limits

There is no requirement for this type of hybrid system to comply with the 500 kHz minimum bandwidth normally associated with a DTS device

Test setup



Test setup PR002_01				
Nr.	Id. Number	Manufacturer	Model	Description
2	CMC S295	Rohde & Schwarz	FSW43	Spectrum Analyzer 43GHz
1	--	--	--	Cable + attenuator (calibrated before the test)

Result – LoRa 500 kHz, spread factor 12

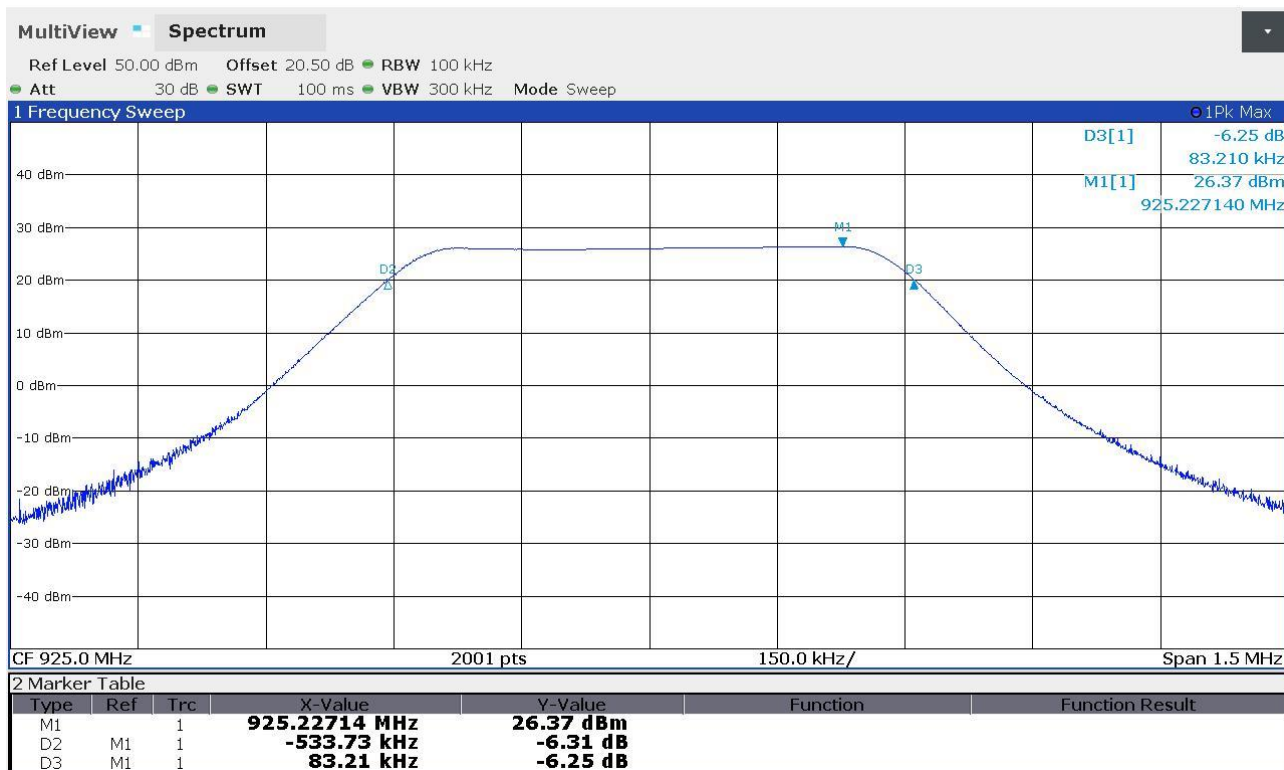
<i>Frequency (MHz)</i>	<i>Graphs</i>	<i>6 dB bandwidth (kHz)</i>
923,30	G21232480	640,93
925,00	G21232481	637,18
927,50	G21232482	640,18

Result – LoRa 500 kHz, spread factor 7

<i>Frequency (MHz)</i>	<i>Graphs</i>	<i>6 dB bandwidth (kHz)</i>
923,30	G21232465	641,67
925,00	G21232463	616,94
927,50	G21232464	676,91

Graphs

Panozzo 21232463



Panozzo 21232464

