



Test Report Serial Number:

45461627 R1.0

Test Report Date:

4 December 2020

Project Number:

1510

Appendix N - 20dB BW/Field Strength Measurement Plots (NFC)

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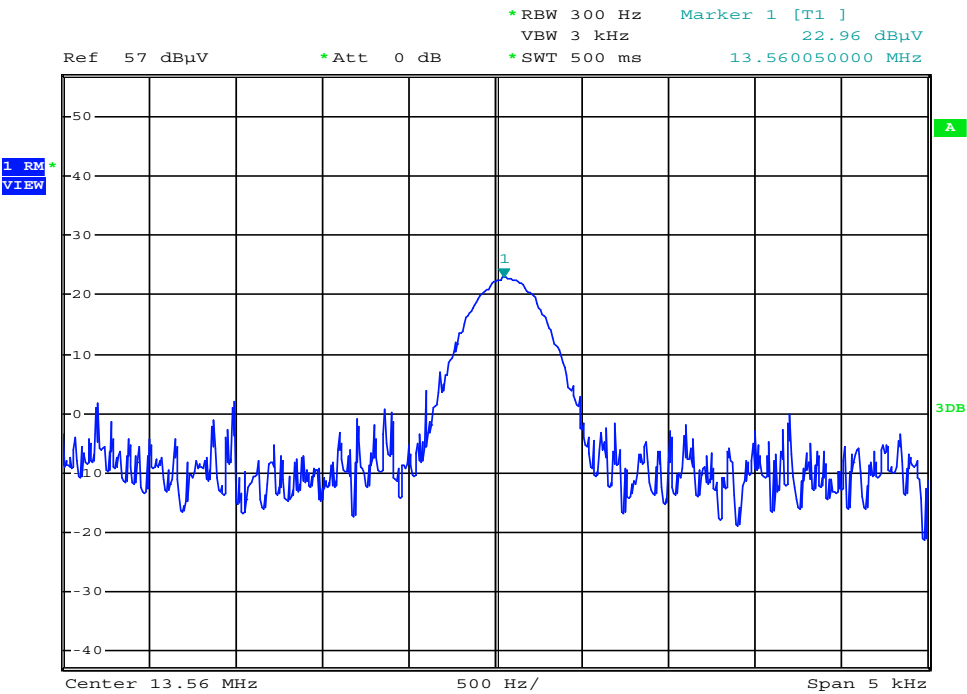
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FCC §15.225(a), RSS-210 Radiated Field Strength										
Frequency (MHz)	Mode	Modulation	Detector	Antenna Polarization	Measured Field Strength [FS _{Meas}] (dBuV @ 3m)	Cable Loss [L _c] (dBm)	Receive Antenna [ACF] (dB)	Corrected Field Strength [FS _{Corr}] (dBuV @3m)	Limit (dBuV)	Margin (dB)
13.56	NFC	ASK	RMS	Front	22.96	0.5	10.65	34.11	124.0	89.9
				Side	17.93			29.08		94.9
			Peak	Front	23.40			34.55	144.0	109.5
				Side	18.84			29.99		114.0
Result:									Complies	

$$FS_{Corr} = FS_{Meas} + ACF + L_C$$

$$Margin = Limit - FS_{Corr}$$

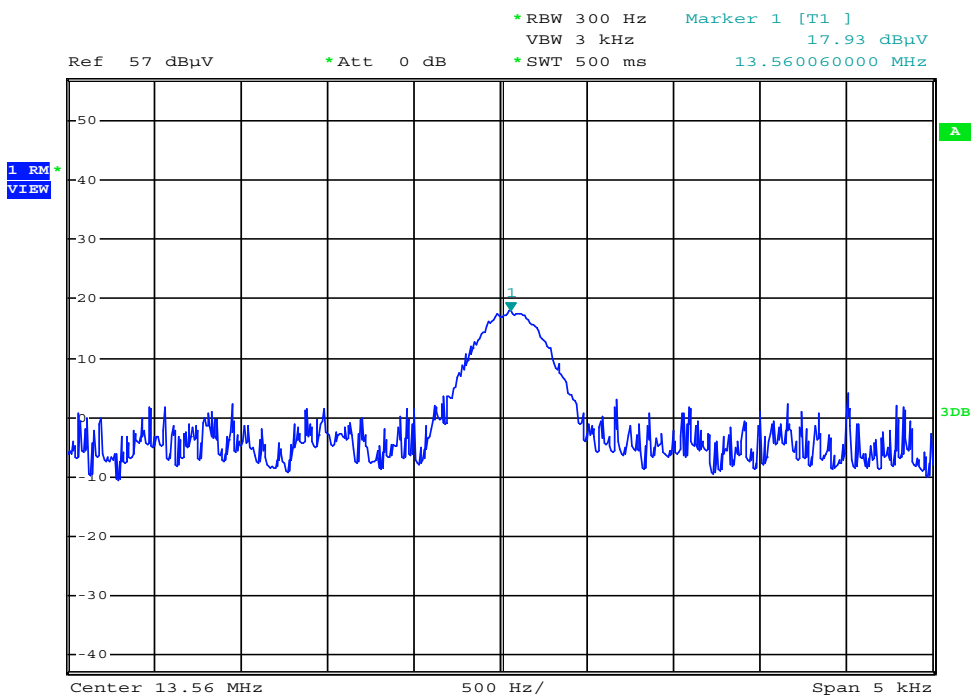
Field Strength (Average)



Date: 16.DEC.2020 11:33:11

Channel Frequency: 13.56 MHz	Detector: RMS	Antenna Polarization: Front
Modulation Setting: ASK	Protocol: NFC	Measured Field Strength: 22.96 dBuV

Field Strength (Average)



Date: 16.DEC.2020 11:35:48

Channel Frequency:

13.56 MHz

Detector:

RMS

Antenna Polarization:

Side

Modulation Setting:

ASK

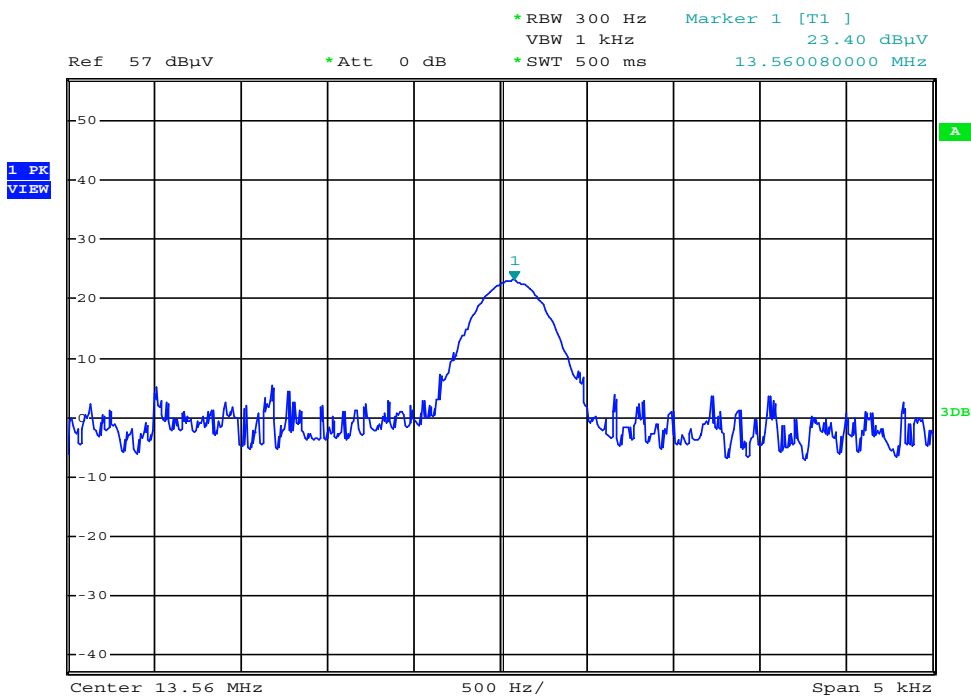
Protocol:

NFC

Measured Field Strength:

17.93 dBuV

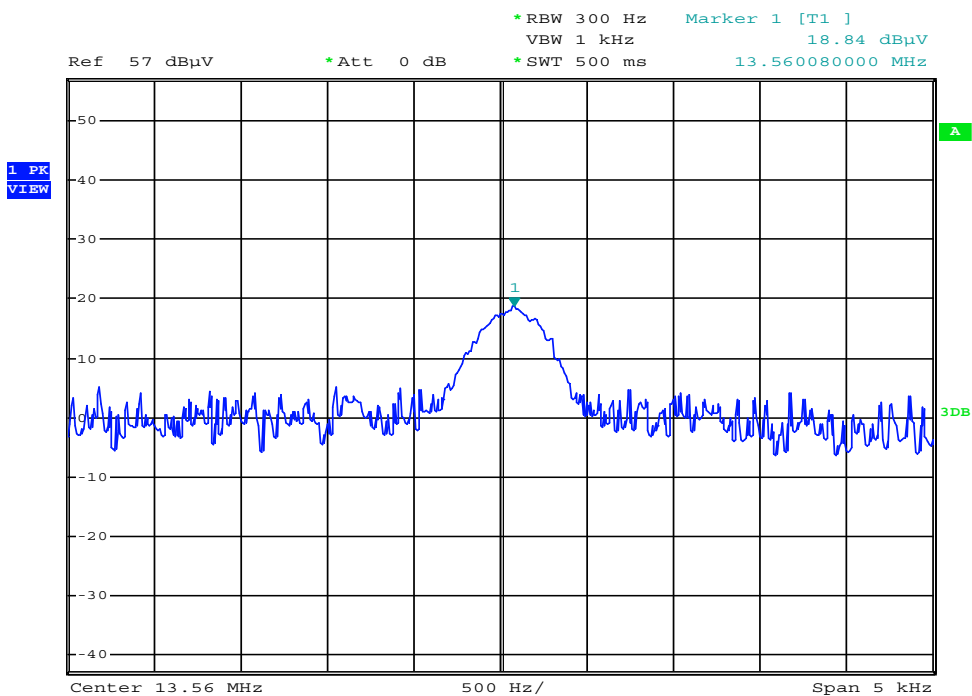
Field Strength (Peak)



Date: 16.DEC.2020 11:32:28

Channel Frequency: 13.56 MHz	Detector: Peak	Antenna Polarization: Front
Modulation Setting: ASK	Protocol: NFC	Measured Field Strength: 23.40 dBuV

Field Strength (Peak)



Date: 16.DEC.2020 11:35:16

Channel Frequency:

13.56 MHz

Detector:

Peak

Antenna Polarization:

Side

Modulation Setting:

ASK

Protocol:

NFC

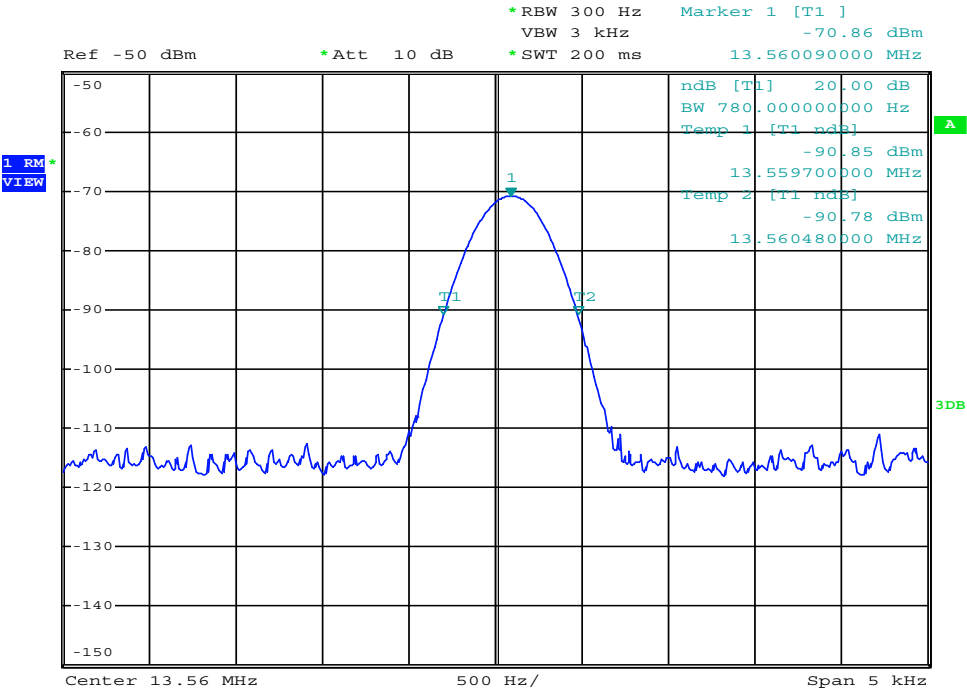
Measured Field Strength:

18.84 dBμV

20dB BW Bandwidth Measurement Results (NFC)			
Frequency (MHz)	Modulation	Mode	Measured 20dB Bandwidth (Hz)
13.56	ASK	NFC	780.0
Result:			Complies

Compliance to §15.215(c):
See NFC Emissions Mask Plots

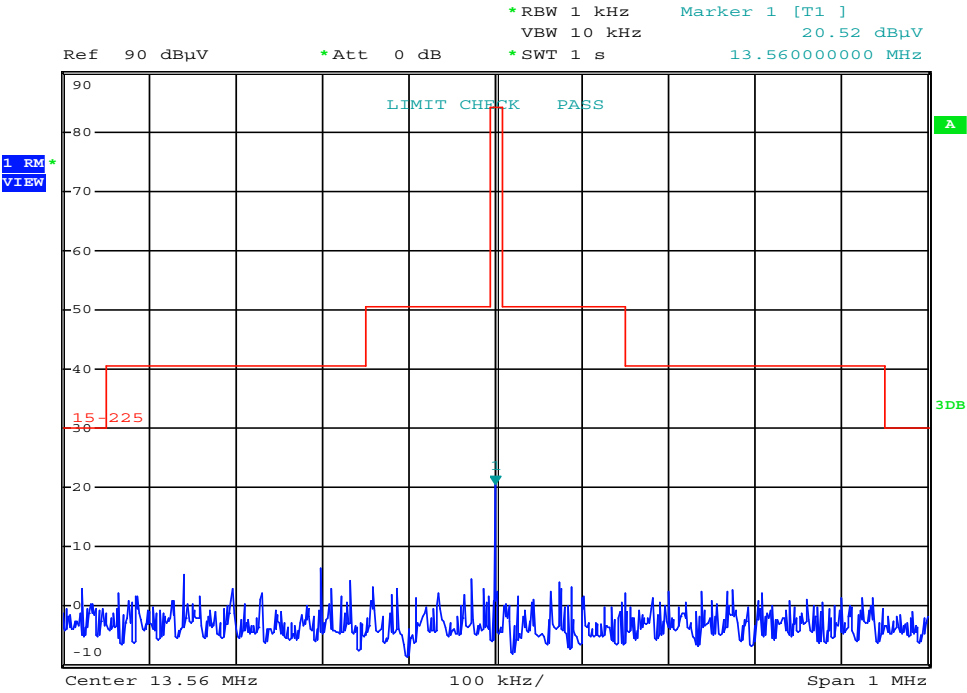
20dB Bandwidth



Date: 15.DEC.2020 13:31:18

Channel Frequency: 13.56 MHz			
DUT Modulation: ASK	Mode: NFC	Measured 20dB Bandwidth: 780.000 Hz	

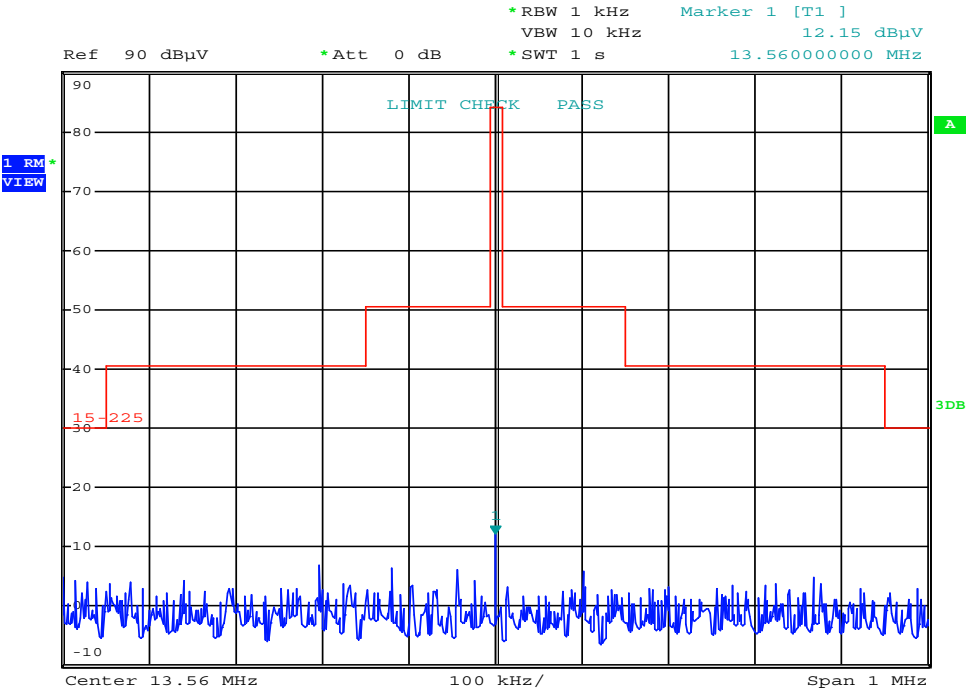
NFC Emissions Mask



Date: 16.DEC.2020 12:13:15

Channel Frequency: 13.56 MHz	Antenna Polarization: Front	Detector: RMS
DUT Modulation: ASK	Mode: NFC	Emissions Mask: PASS

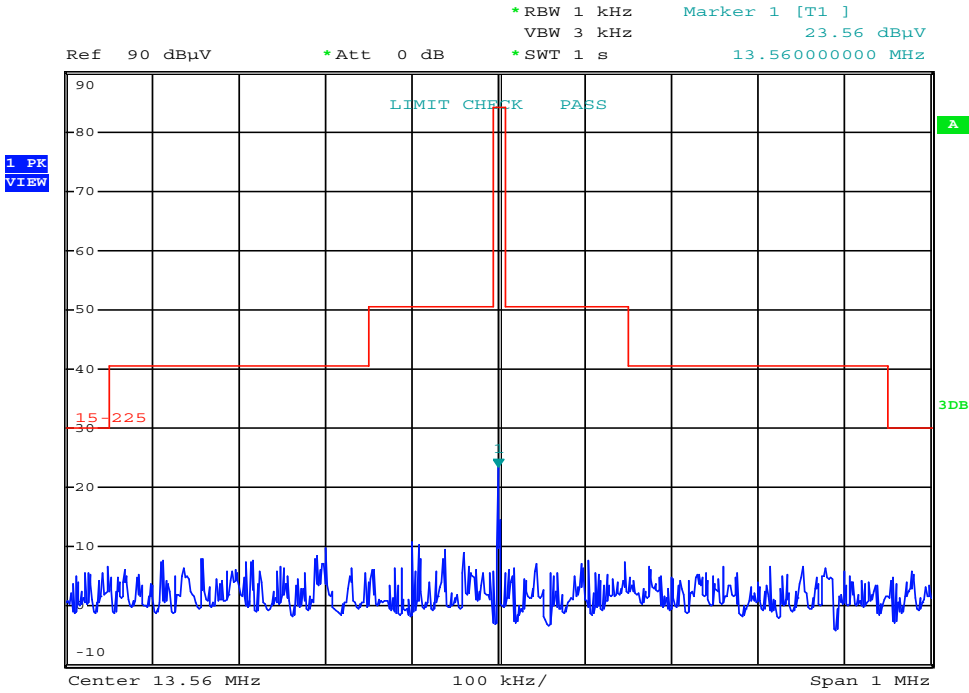
NFC Emissions Mask



Date: 16.DEC.2020 12:11:38

Channel Frequency: 13.56 MHz	Antenna Polarization: Side	Detector: RMS
DUT Modulation: ASK	Mode: NFC	Emissions Mask: PASS

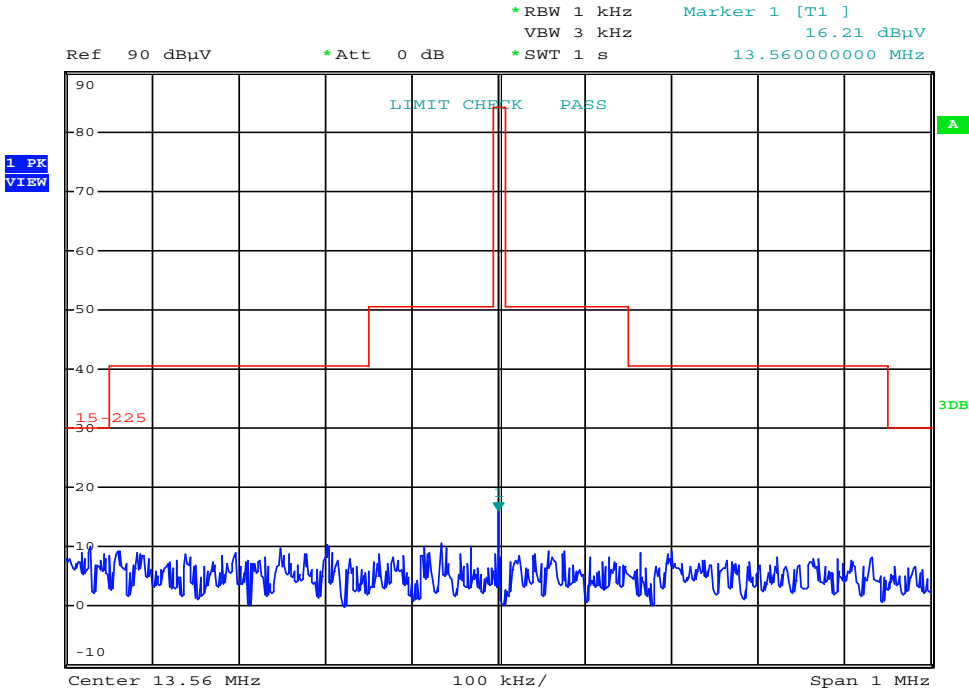
NFC Emissions Mask



Date: 16.DEC.2020 12:12:33

Channel Frequency: 13.56 MHz	Antenna Polarization: Front	Detector: Peak
DUT Modulation: ASK	Mode: NFC	Emissions Mask: PASS

NFC Emissions Mask



Date: 16.DEC.2020 12:11:05

Channel Frequency: 13.56 MHz	Antenna Polarization: Side	Detector: Peak
DUT Modulation: ASK	Mode: NFC	Emissions Mask: PASS