



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)

This report shall not be reproduced in any form without the expressed written consent of Celltech Labs Inc.

© 2020 Celltech Labs Inc,

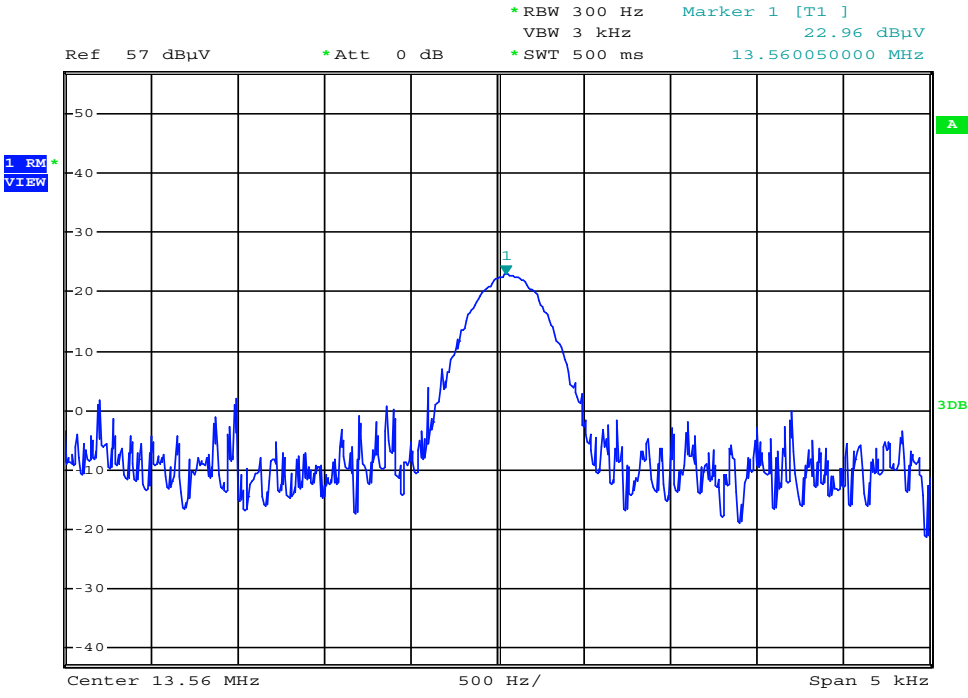
FCC §15.225(a), RSS-210 Radiated Field Strength

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	

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

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

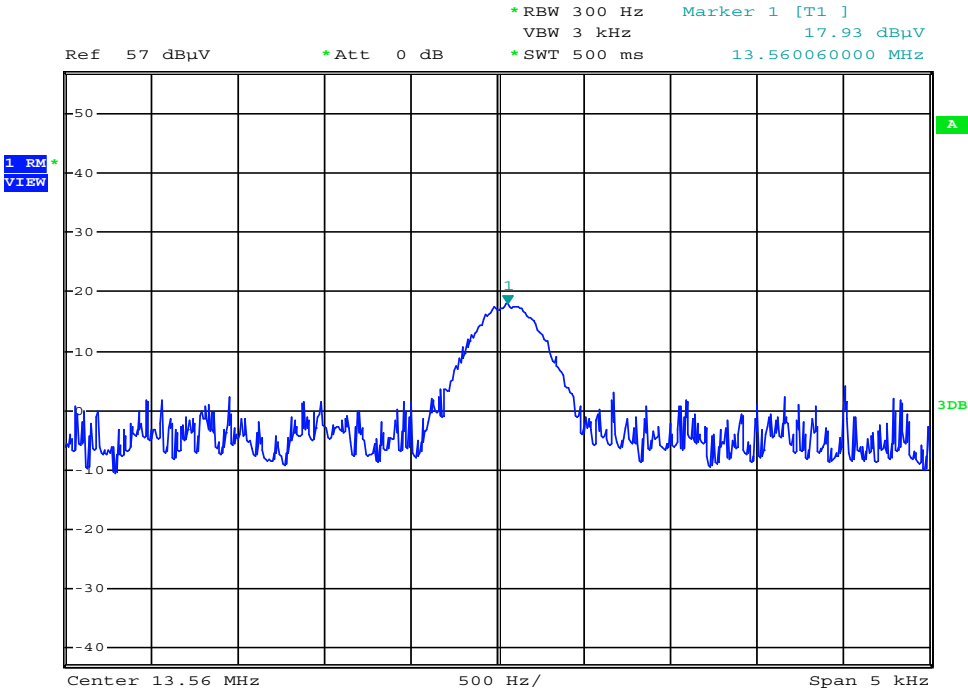
Field Strength (Average)



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)



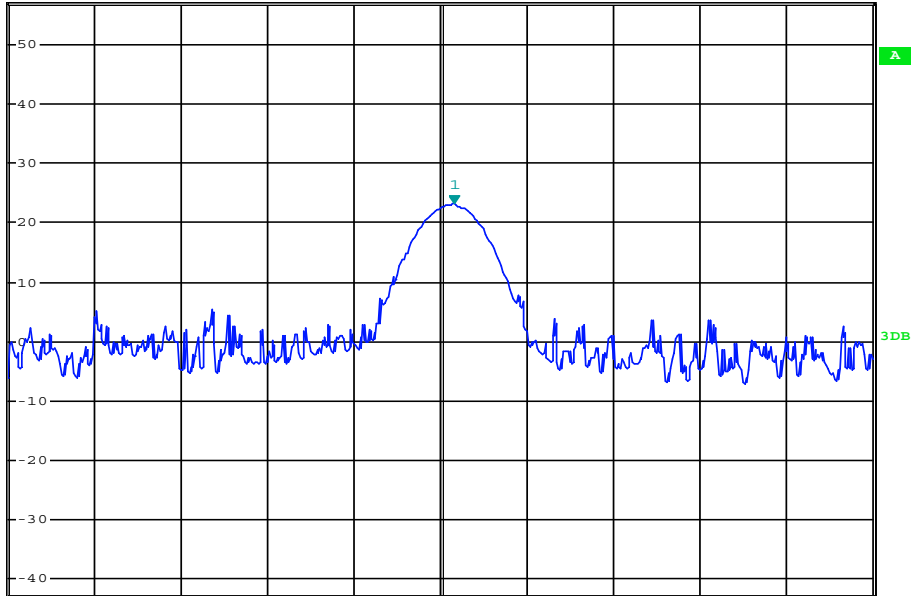
Date: 16.DEC.2020 11:35:48

Channel Frequency: 13.56 MHz	Detector: RMS	Antenna Polarization: Side
Modulation Setting: ASK	Protocol: NFC	Measured Field Strength: 17.93 dBuV

Field Strength (Peak)

Ref 57 dB μ V *Att 0 dB *RBW 300 Hz Marker 1 [T1]
VBW 1 kHz 23.40 dB μ V
*SWT 500 ms 13.560080000 MHz

1 PK
VIEW

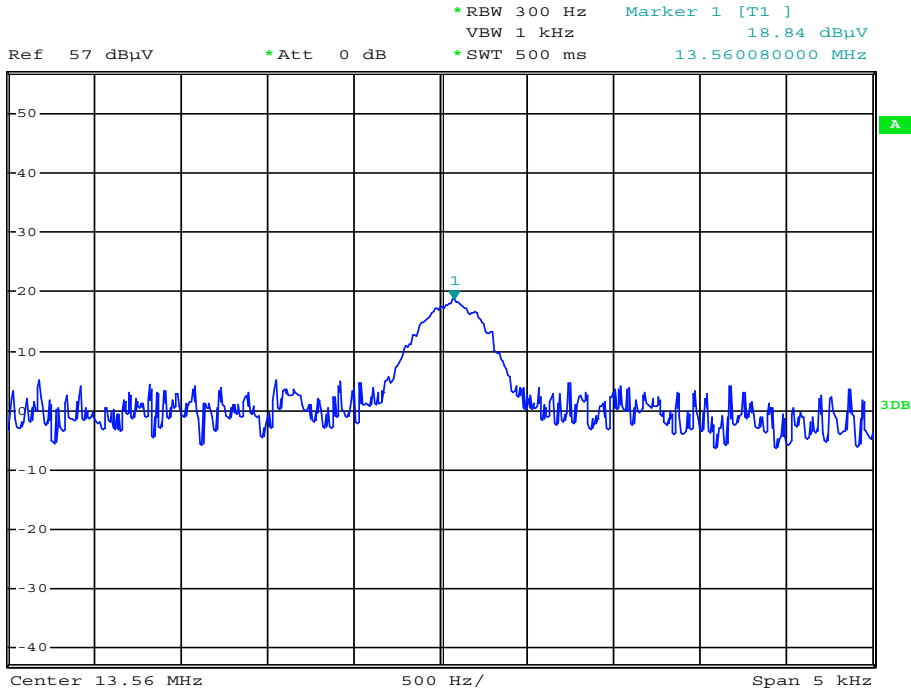


Center 13.56 MHz 500 Hz/ Span 5 kHz

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

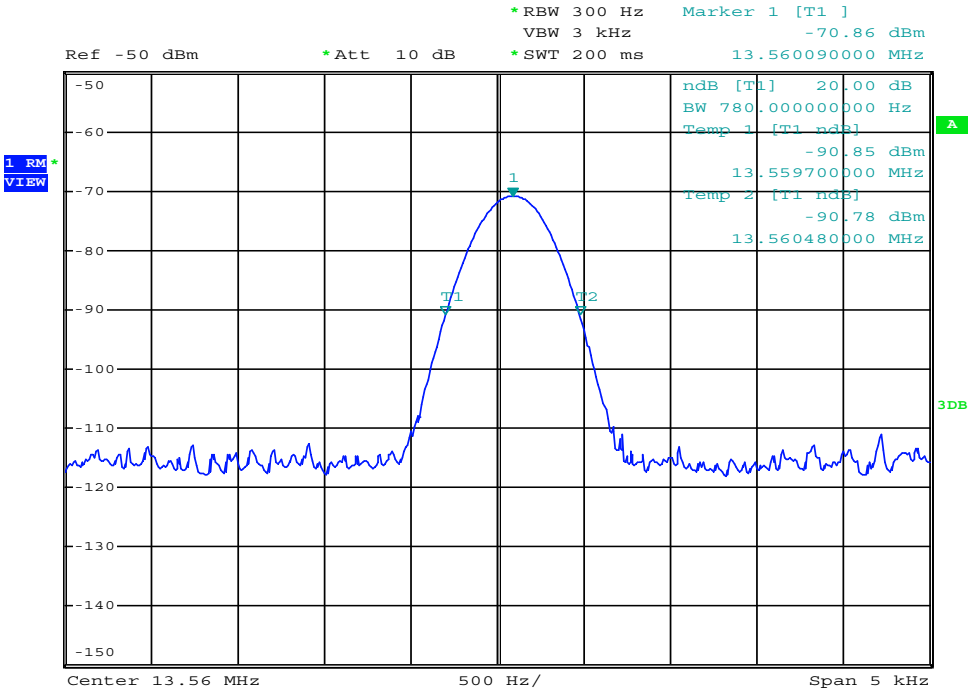
Channel Frequency: 13.56 MHz	Detector: Peak	Antenna Polarization: Side
Modulation Setting: ASK	Protocol: NFC	Measured Field Strength: 18.84 dBuV

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

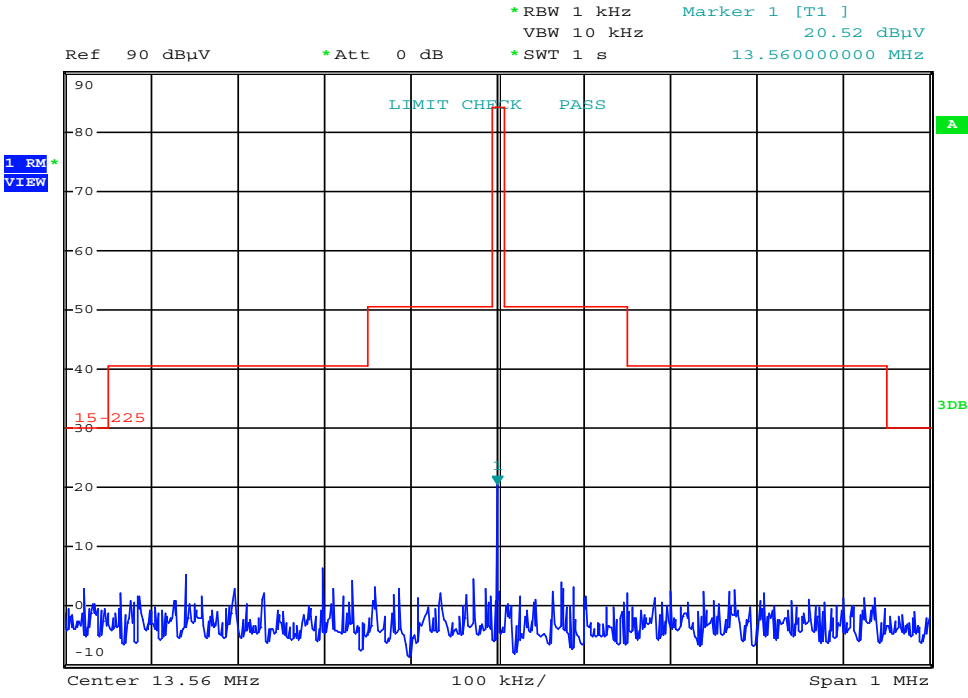
Channel Frequency:
13.56 MHz

DUT Modulation:
ASK

Mode:
NFC

Measured 20dB Bandwidth:
780.000 Hz

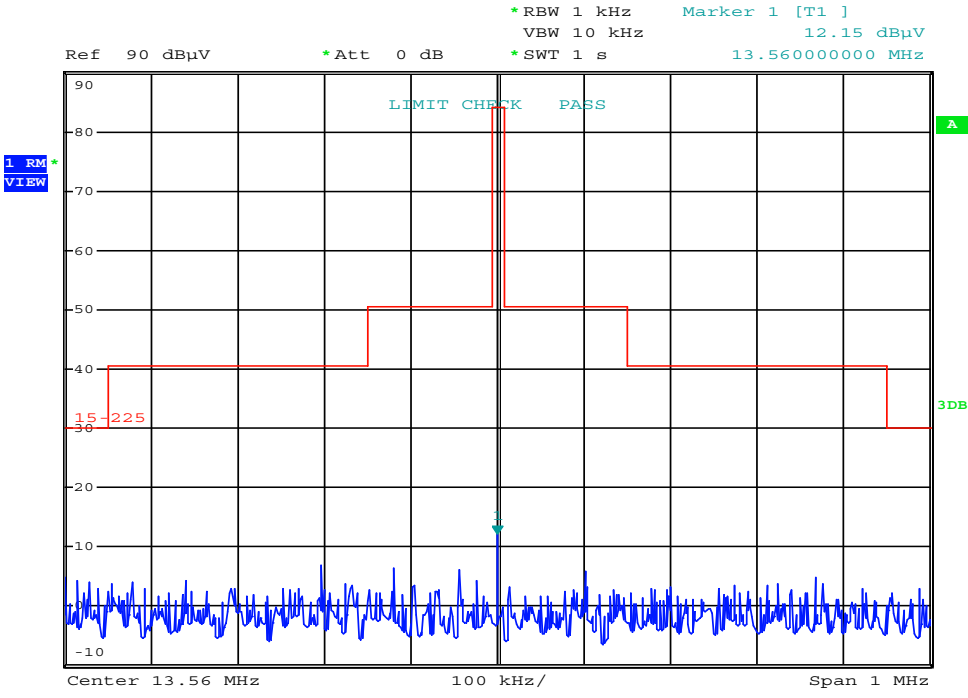
NFC Emissions Mask



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

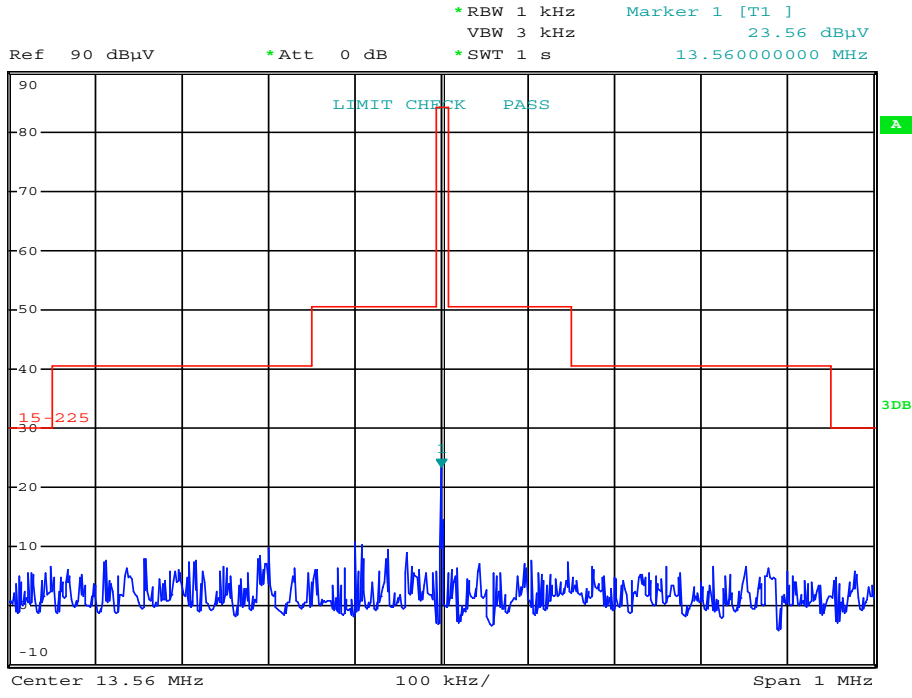


Date: 16.DEC.2020 12:11:38

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

NFC Emissions Mask

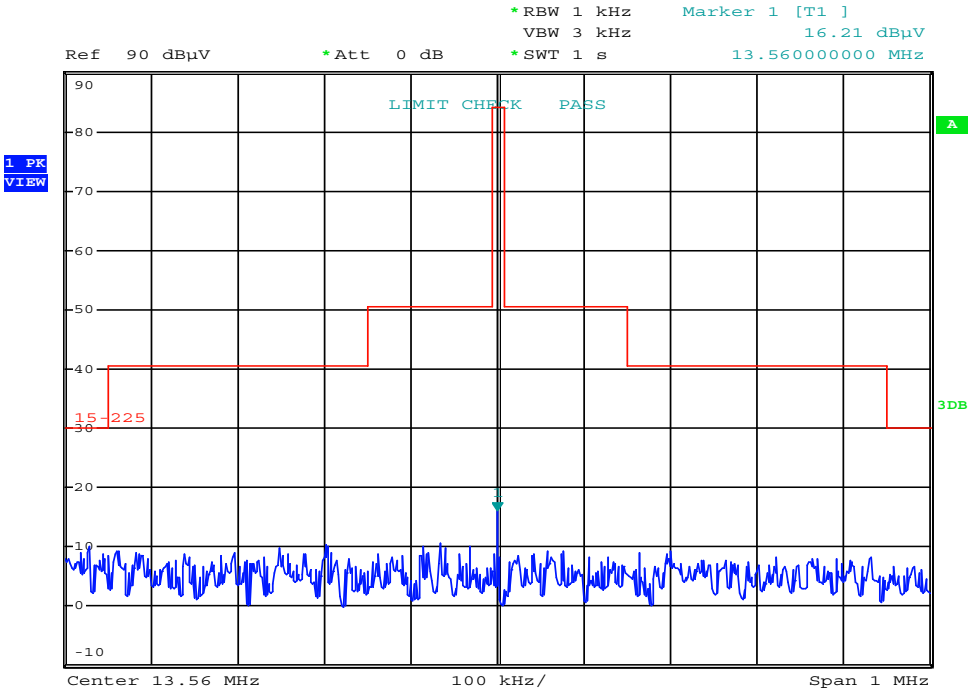
1 PK
VIEW



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