

Report Number: 15107858-EP1V2

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1. SCOPE

The purpose of this document is to show test setup diagrams and photos for the following reports

Reports
15107858-E1 FCC Report WWAN (2G3G)
15107858-E2 FCC Report WWAN (4G5G)
15107858-E3 FCC Report Carrier Aggregation
15107858-E4 FCC Report NTN Bands
15107858-E5 FCC B48 CBRS
15107858-E6 FCC Report BT_BLE Channel Sounding Mode2_DSS
15107858-E7 FCC Report BT_BLE Channel Sounding Mode0_DTS
15107858-E8 FCC Report 802.15.4 Thread_DTS
15107858-E9 FCC Report 2.4G_DTS WLAN
15107858-E10 FCC Report 5G_UNII WLAN
15107858-E11 FCC Report UNII WLAN DFS
15107858-E12 FCC Report UNII WLAN 6GHz
15107858-E13 FCC Report UNII WLAN CBP
15107858-E14 FCC Report NFC
15107858-E15 FCC Report WPT
15107858-E16 FCC Report UWB

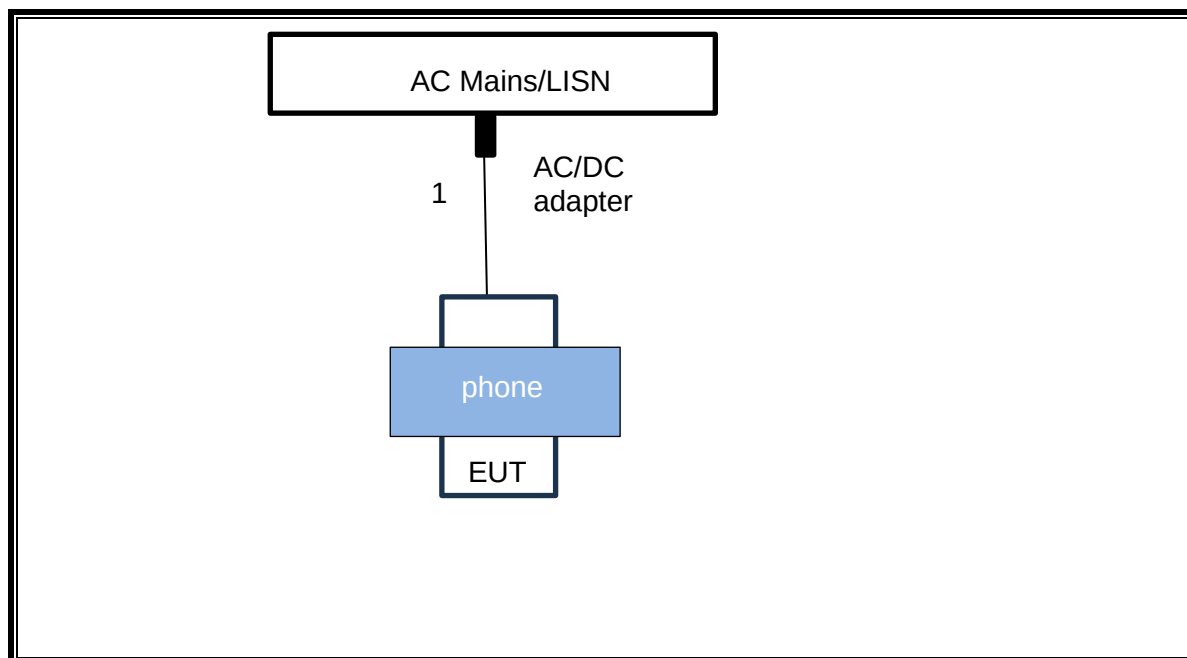
2. WPT/NFC/BT/BLE/BLE CHANNEL SOUNDING/802.15.4 THREAD/2.4G WLAN/5G WLAN/6G WLAN TECHNOLOGIES

2.1. DESCRIPTION OF TEST SETUP

SUPPORT TEST EQUIPMENT						
Description		Manufacturer	Model	Serial Number		FCC ID/ DoC
Laptop		Dell	Latitude 5310	00330-80000-00000-AA366		DoC
AC/DC Adapter		Dell	LA65NM191	1A5-0653-A02		DoC
AC/DC Adapter		Google	45 W	1HV003B90100315DE		DoC
Phone (WPT supporting client)		Google	GGX8B	41031FDAS0007H		A4RGGX8B
USB-A Cable With Repeater (UWB)		Ugreen	10321	X000TT2OLL		DoC
I/O CABLES (CONDUCTED TEST)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	AC	1	2-Prong	Un-shielded	1	
2	DC	1	DC	Un-shielded	1.5	
3	USB	1	USB C to USB C	Un-shielded	1	
4	SMA	1	SMA	Un-shielded	0.1	
5	AC	1	3-Prong	Un-shielded	1.5	
6	USB-C	1	USB-C	Shielded	1	
I/O CABLES (RADIATED TEST/AC POWER LINE EMISSIONS)						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length (m)	Remarks
1	USB-C	1	USB-C	Shielded	1	
2	AC	1	3-Prong	Un-shielded	1.5	

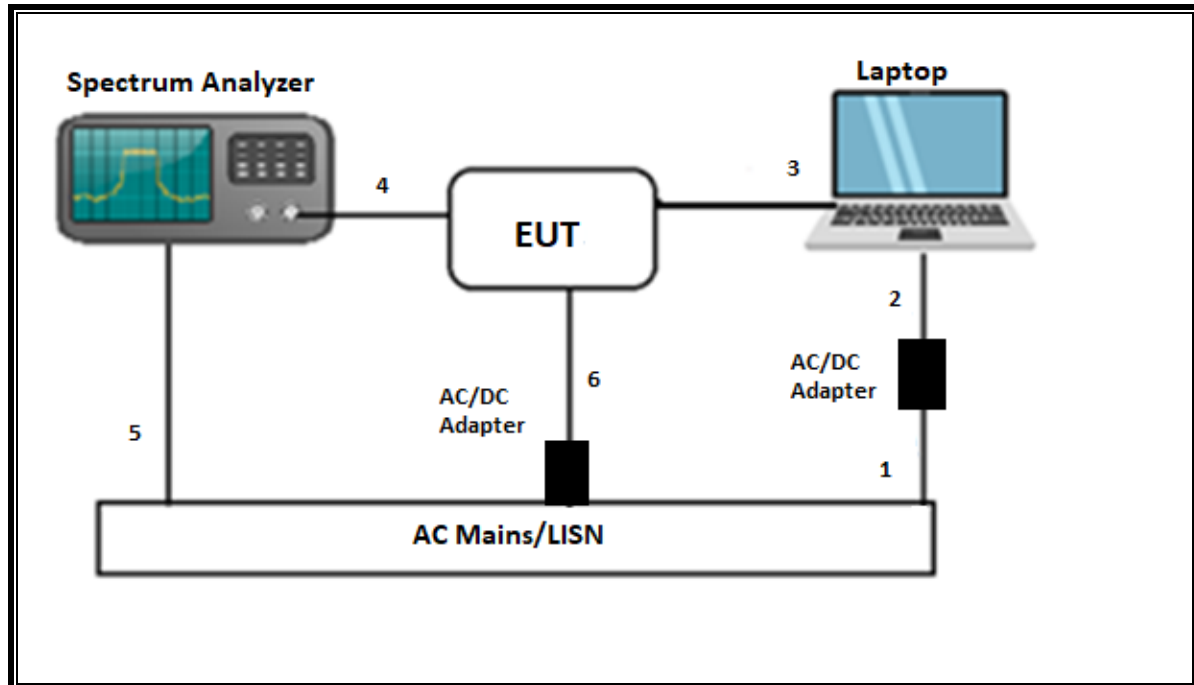
2.1.1. WPT TEST SETUP BLOCK DIAGRAM

CONFIGURATION 2: OPERATING MODE (RADIATED EMISSIONS/AC POWERLINE EMISSIONS)

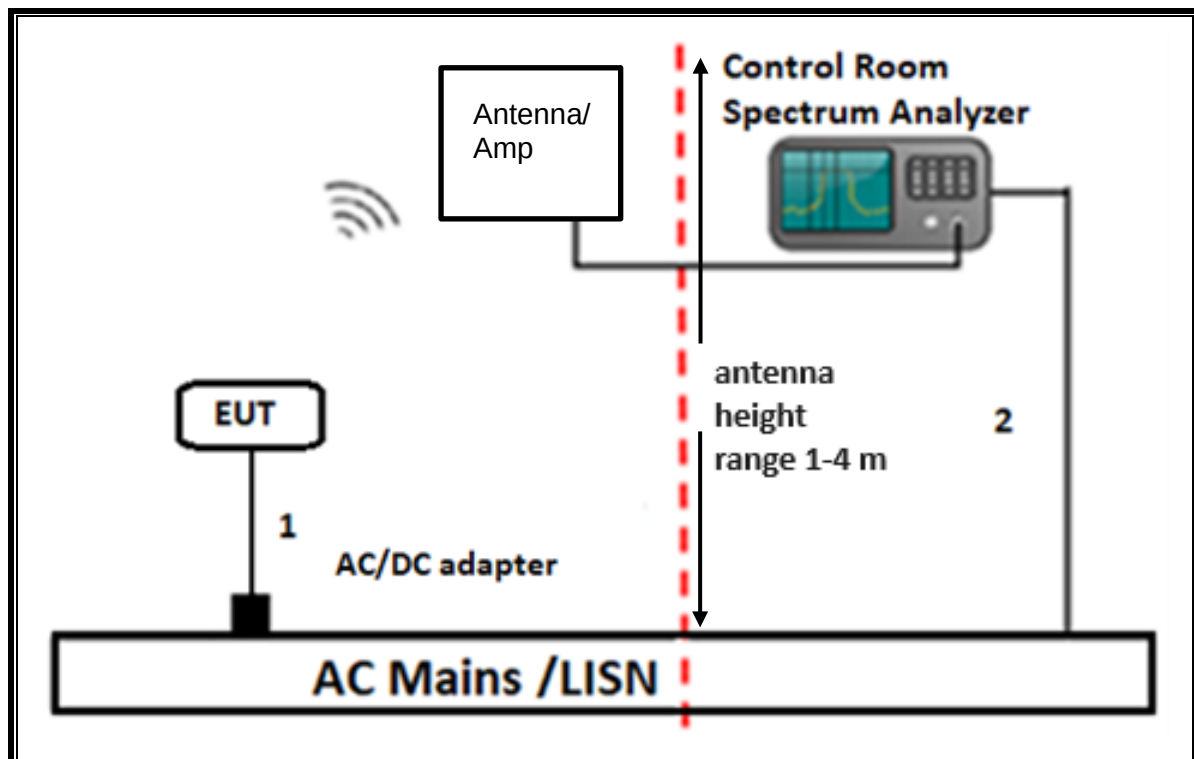


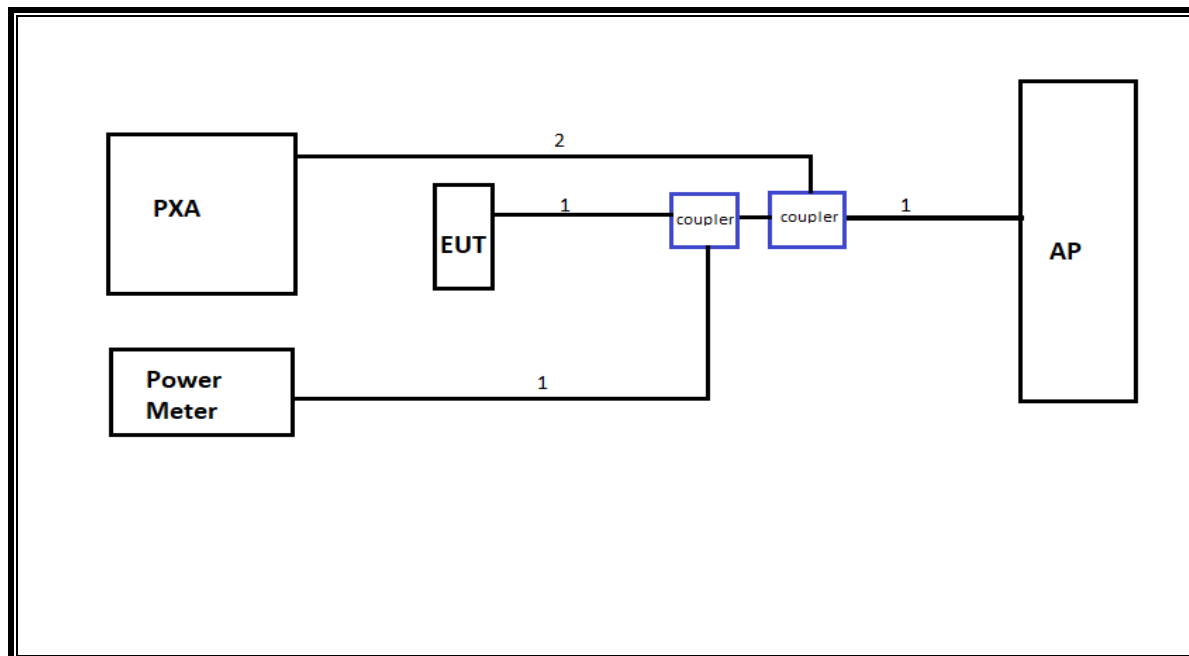
2.1.2. NFC/BT/BLE/BLE CHANNEL SOUNDING/802.15.4 THREAD/2.4G WLAN/5G WLAN/6G WLAN/UWB TEST SETUP BLOCK DIAGRAM

CONDUCTED TEST



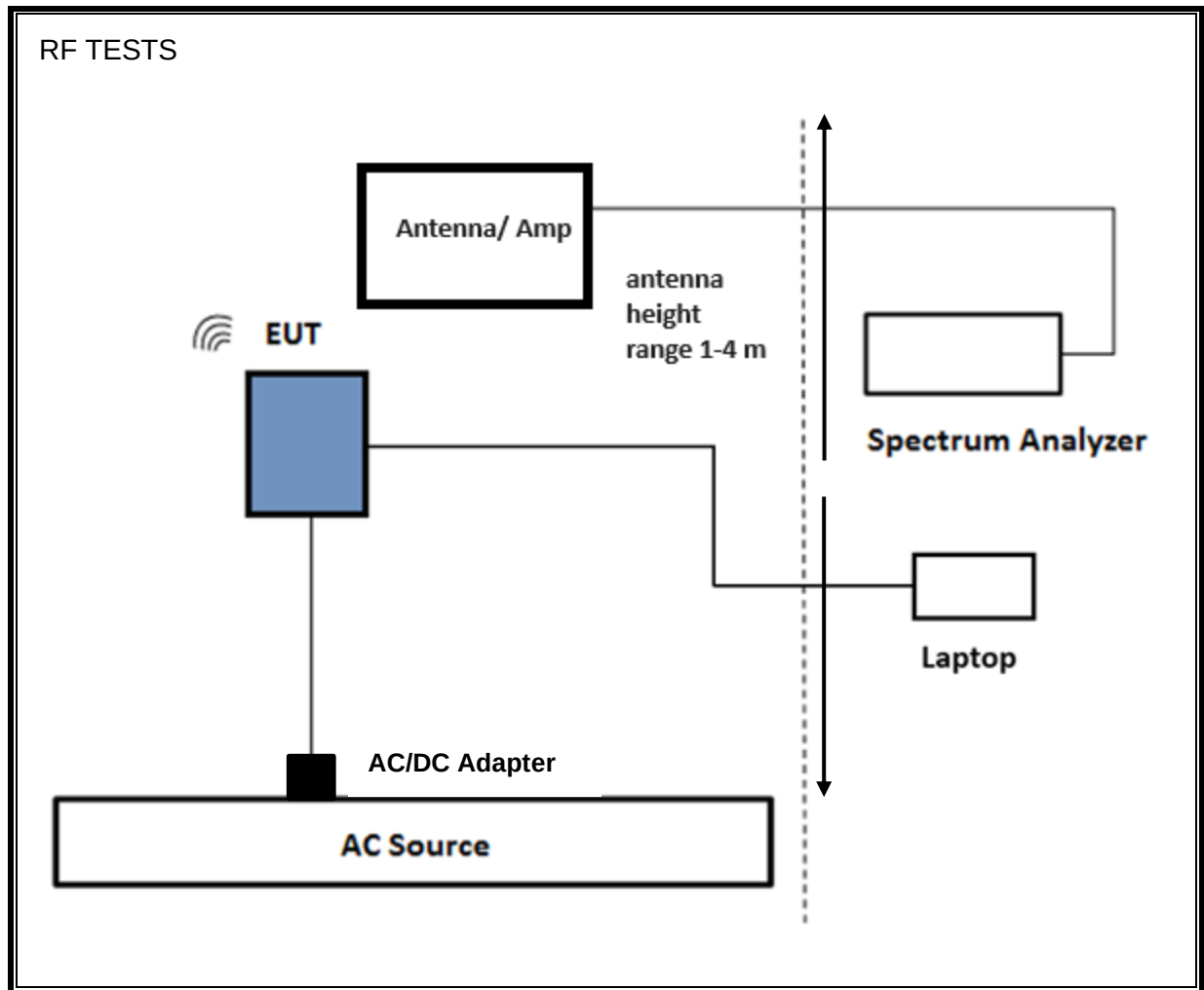
RADIATED EMISSIONS/AC POWERLINE EMISSIONS



6G WLAN 987594 D02 U-NII 6 GHz EMC Measurement (Section K and L)

2.1.3. UWB TEST SETUP BLOCK DIAGRAM

SETUP DIAGRAM FOR Above 1GHz TESTS

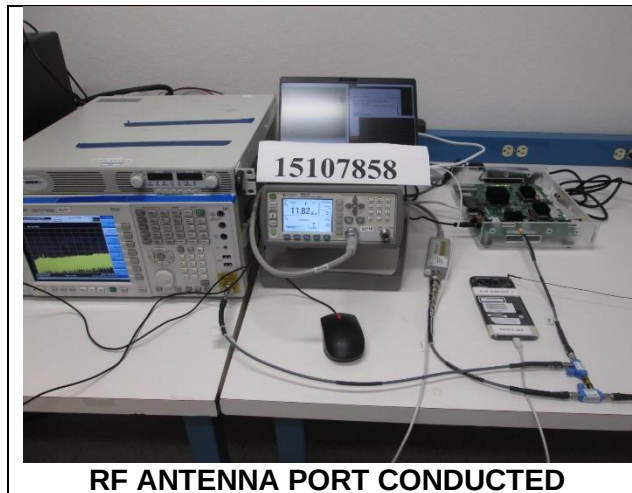


2.2. ANTENNA PORT SETUP

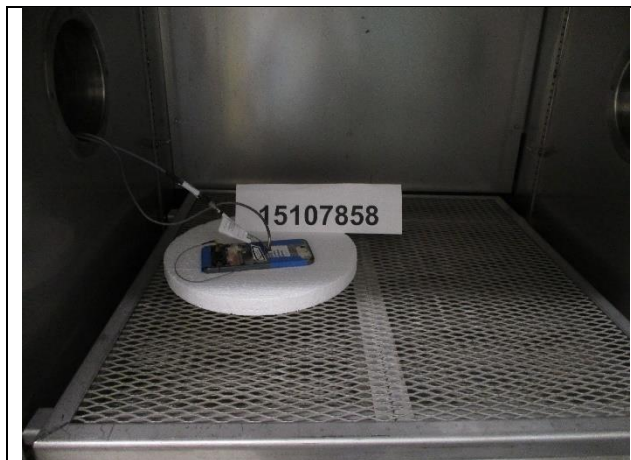
2.2.1. RF Antenna Port test



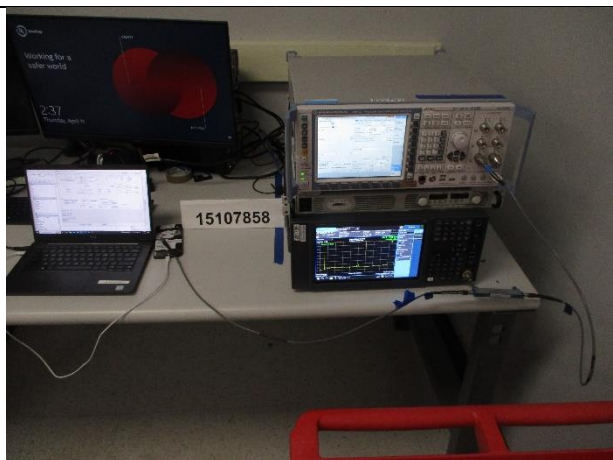
2.2.2. 6G WLAN 987594 D02 U-NII 6 GHz EMC Measurement (Section K and L)



2.2.3. WWAN 2G/3G/4G/5G



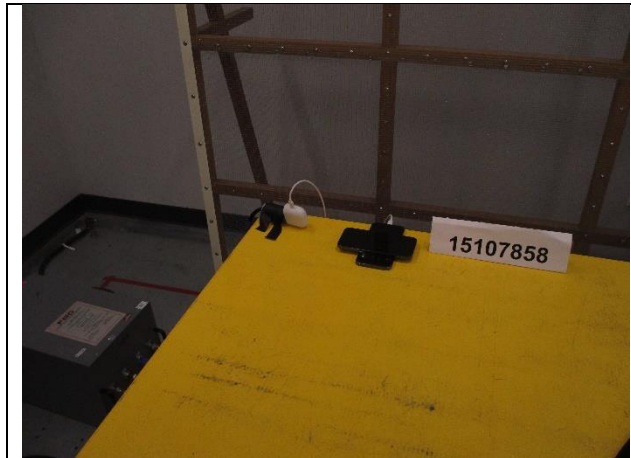
FREQUENCY STABILITY



RF ANTENNA PORT CONDUCTED

2.3. AC LINE CONDUCTED SETUP

2.3.1. WPT

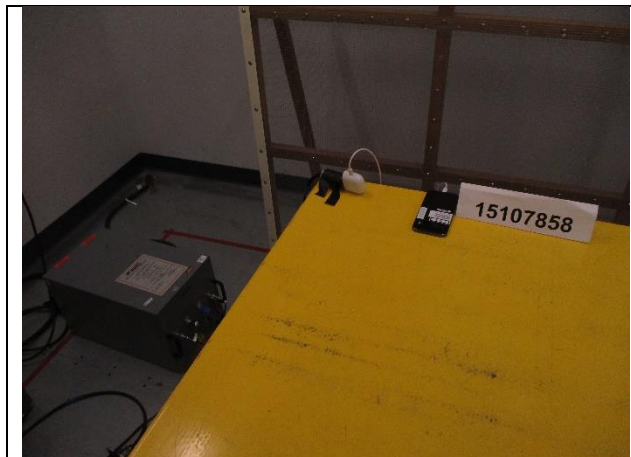


AC LINE CONDUCTED (FRONT)



AC LINE CONDUCTED (BACK)

2.3.2. NFC/BT/BLE/BLE CHANNEL SOUNDING/802.15.4 THREAD/2.4G WLAN/5G WLAN/6G WLAN/UWB



AC LINE CONDUCTED (FRONT)



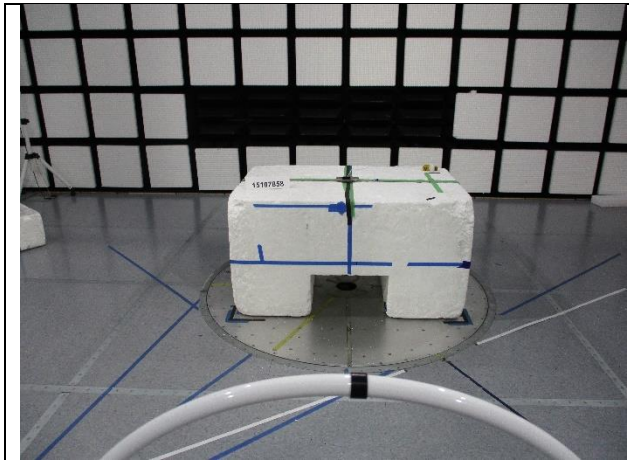
AC LINE CONDUCTED (BACK)

2.4. TEMPERATURE CHAMBER SETUP (NFC)

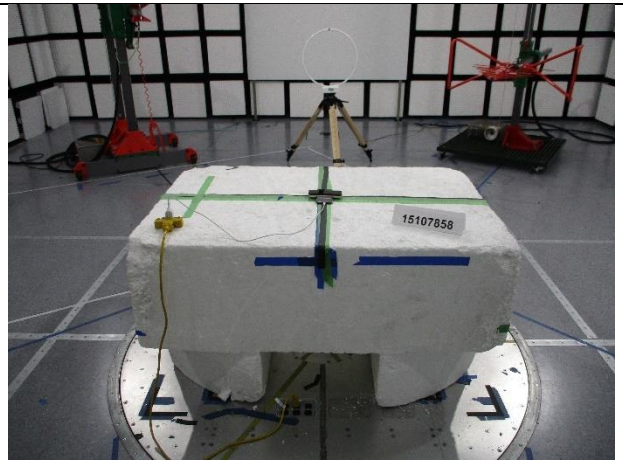


2.5. RADIATED RF MEASUREMENT SETUP

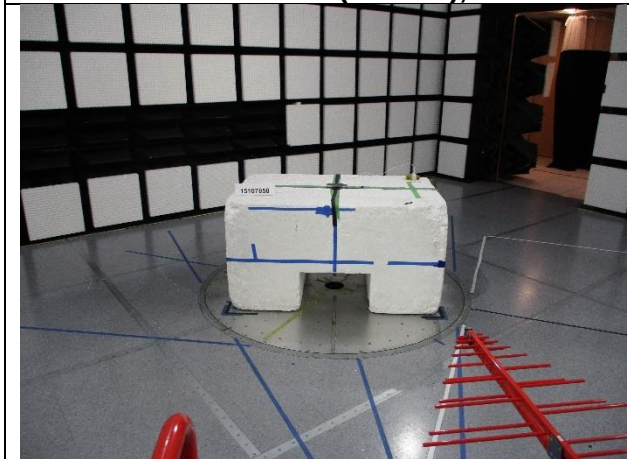
2.5.1. WPT



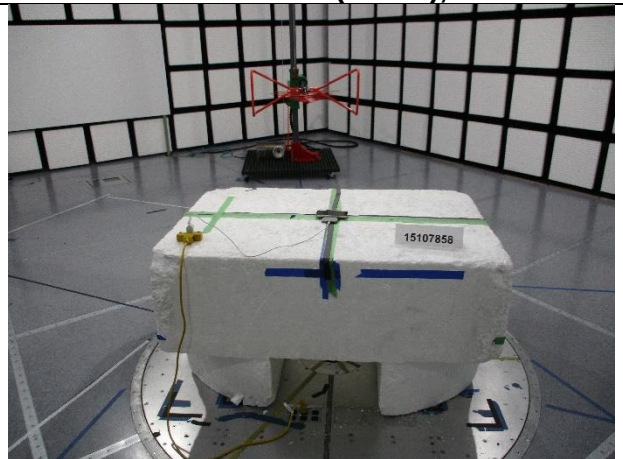
BELOW 30 MHz (FRONT), FCC



BELOW 30 MHz (BACK), FCC



BELOW 1GHz (FRONT)

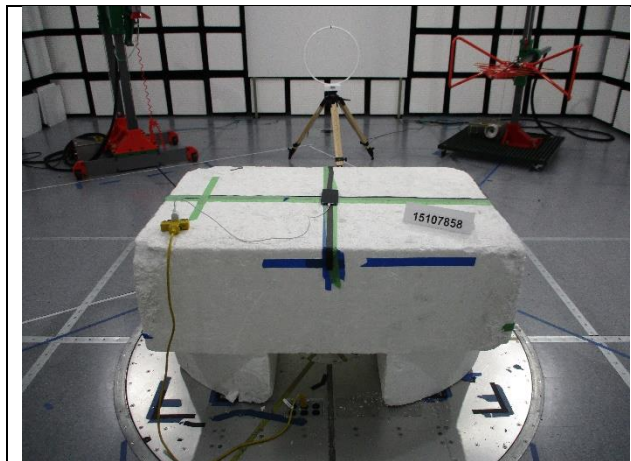


BELOW 1GHz (BACK)

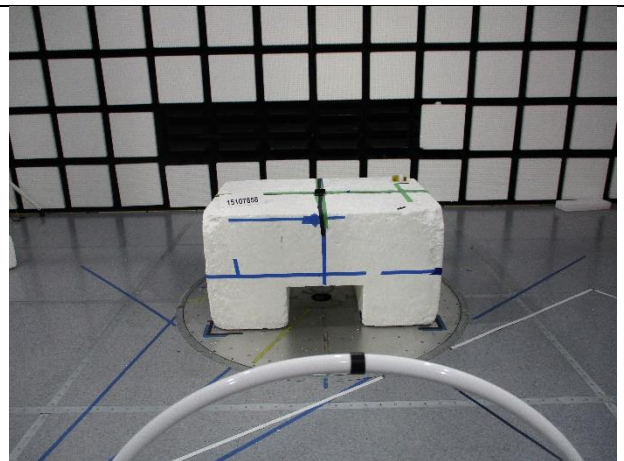
2.5.2. NFC/BT/BLE/BLE CHANNEL SOUNDING/802.15.4 THREAD/2.4G WLAN/5G WLAN/6G WLAN/UWB

Refer to each test report for worst case orientation.

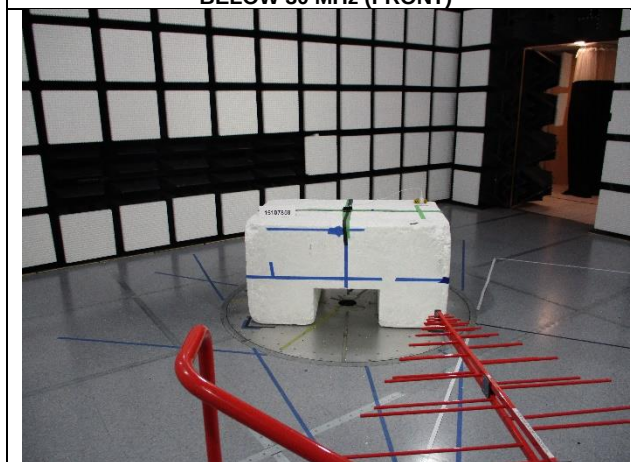
X (Flatbed Orientation)



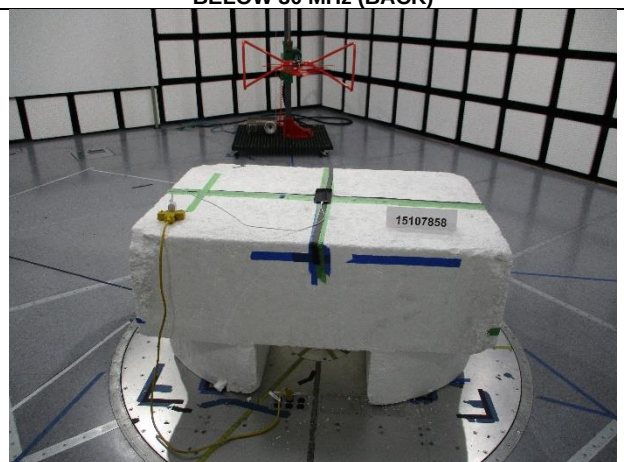
BELOW 30 MHz (FRONT)



BELOW 30 MHz (BACK)



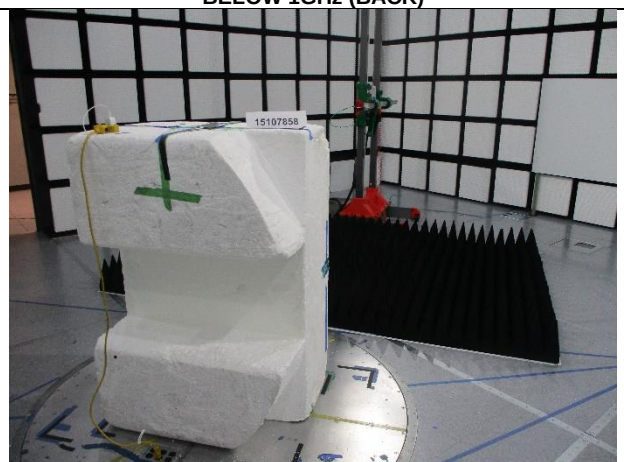
BELOW 1GHz (FRONT)



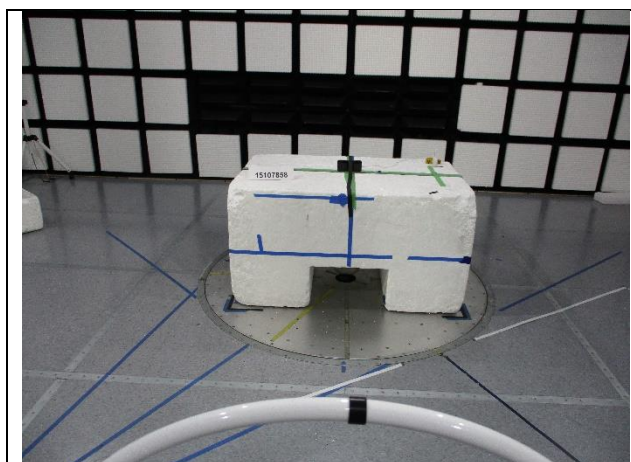
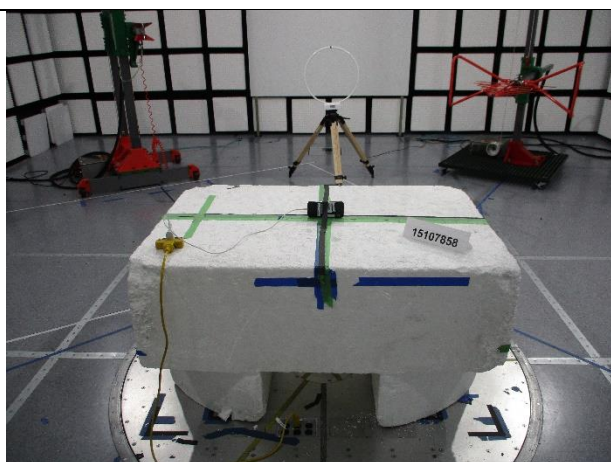
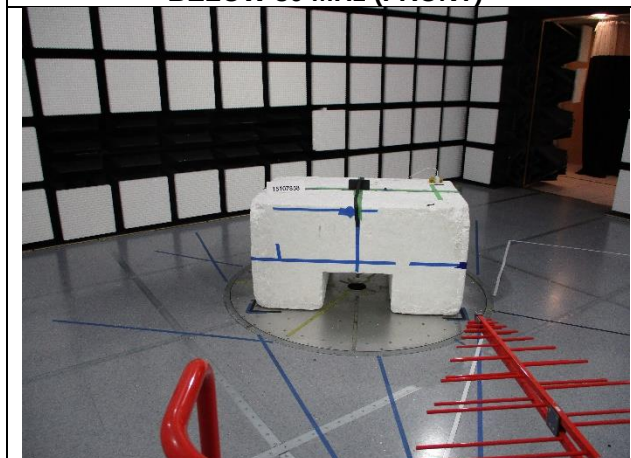
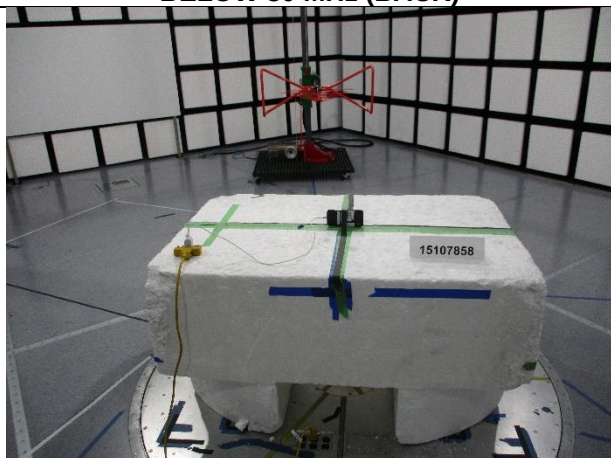
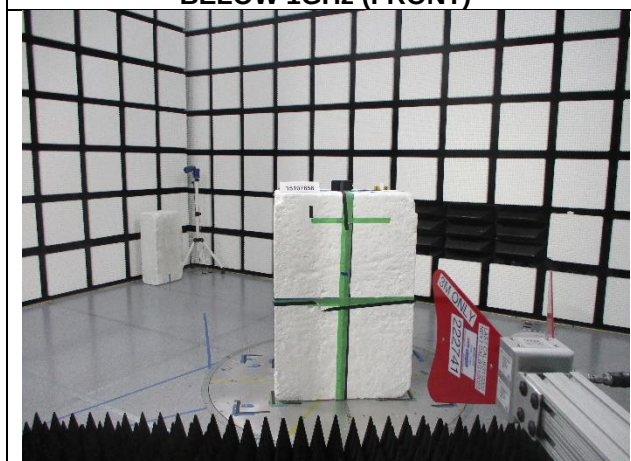
BELOW 1GHz (BACK)

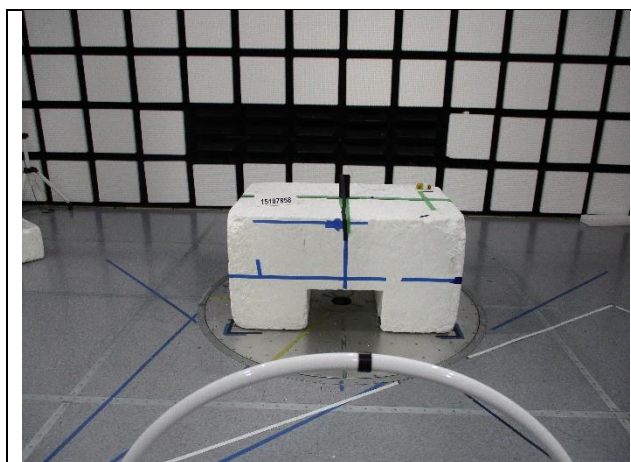
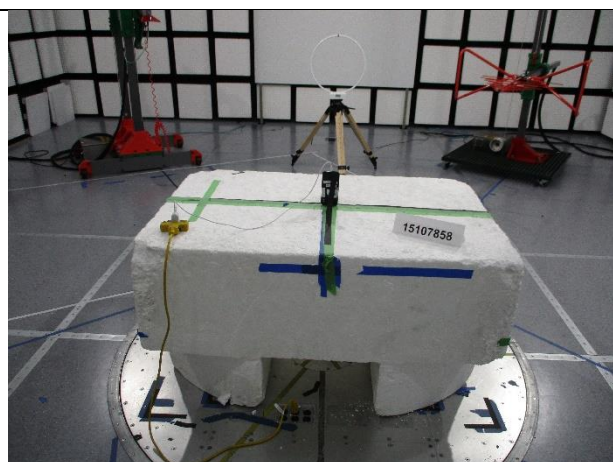
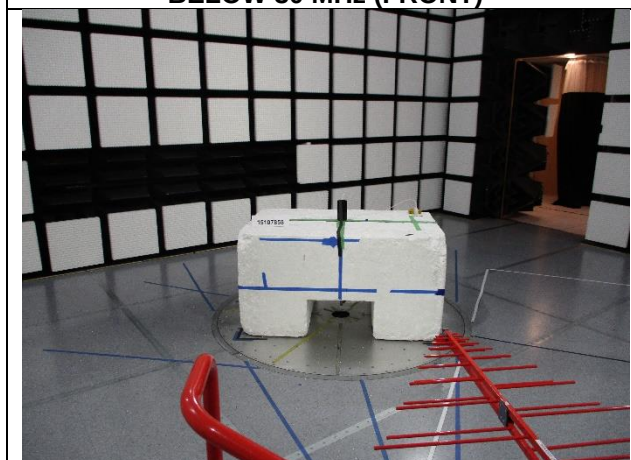
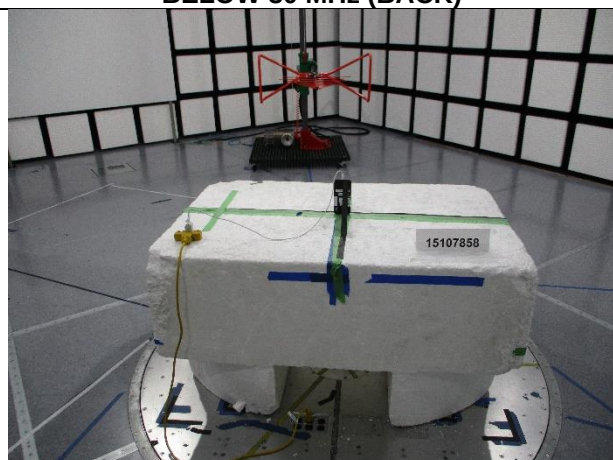
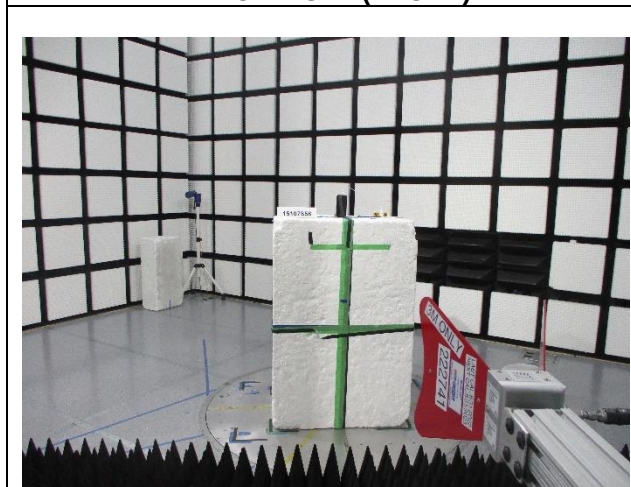
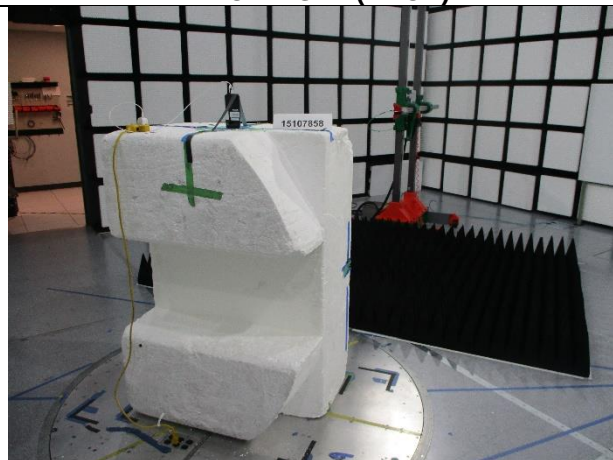


ABOVE 1GHz (FRONT)



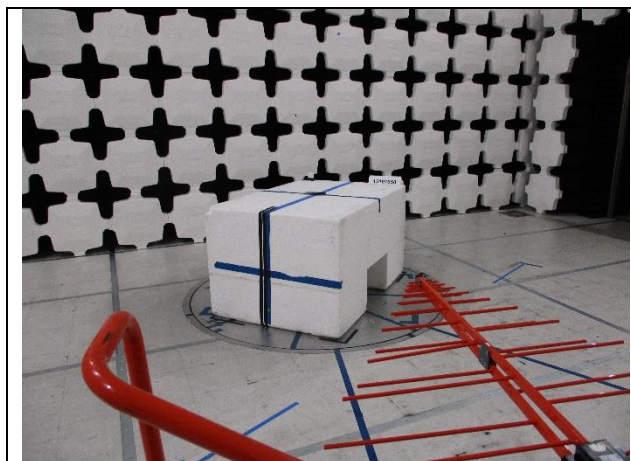
ABOVE 1GHz (BACK)

Y (Landscape Orientation)**BELOW 30 MHz (FRONT)****BELOW 30 MHz (BACK)****BELOW 1GHz (FRONT)****BELOW 1GHz (BACK)****ABOVE 1GHz (FRONT)****ABOVE 1GHz (BACK)**

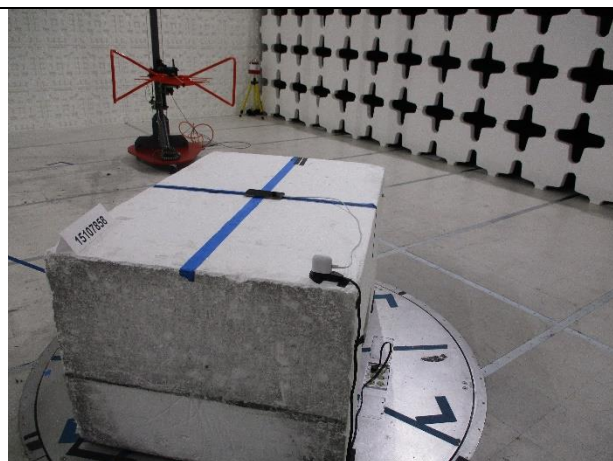
Z (Portrait Orientation)**BELOW 30 MHz (FRONT)****BELOW 30 MHz (BACK)****BELOW 1GHz (FRONT)****BELOW 1GHz (BACK)****ABOVE 1GHz (FRONT)****ABOVE 1GHz (BACK)**

2.5.3. WWAN 2G/3G/4G/5G/NTN

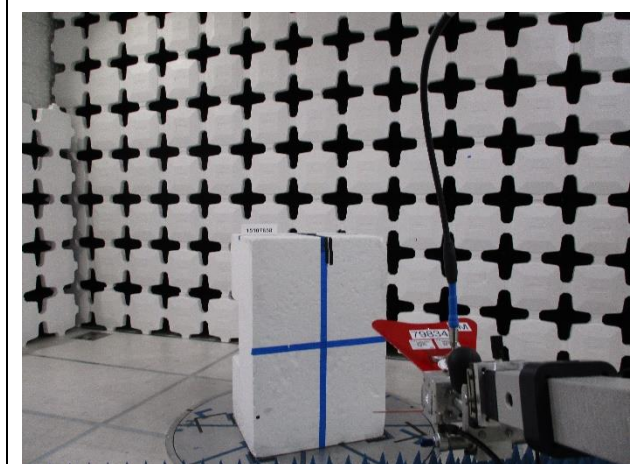
X (Flatbed Orientation)



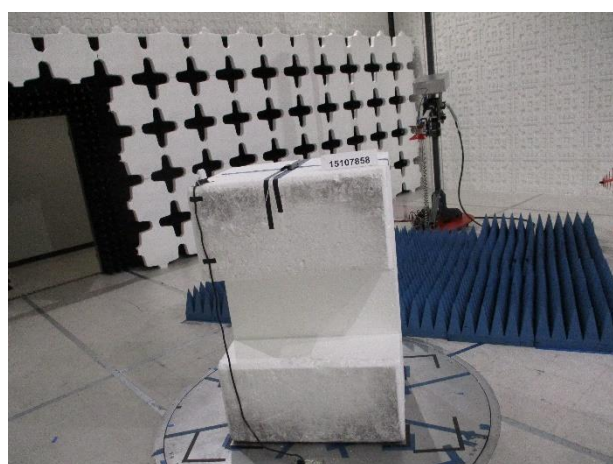
BELOW 1GHz (FRONT)



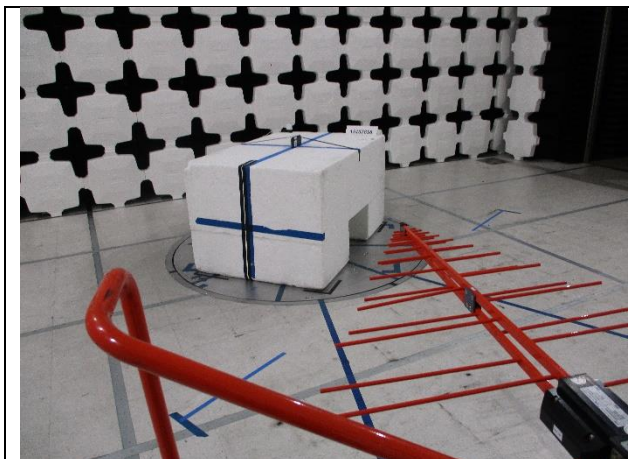
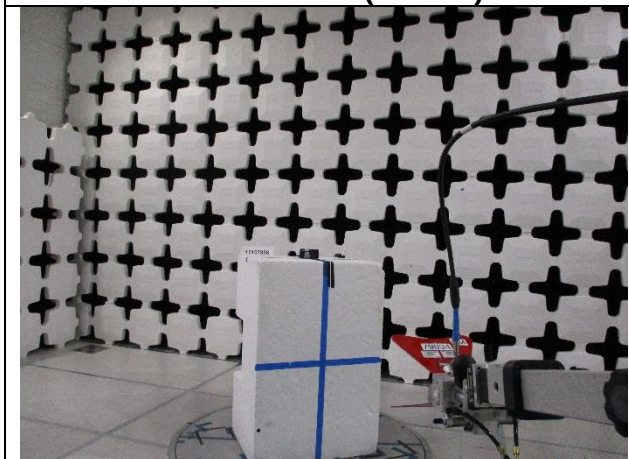
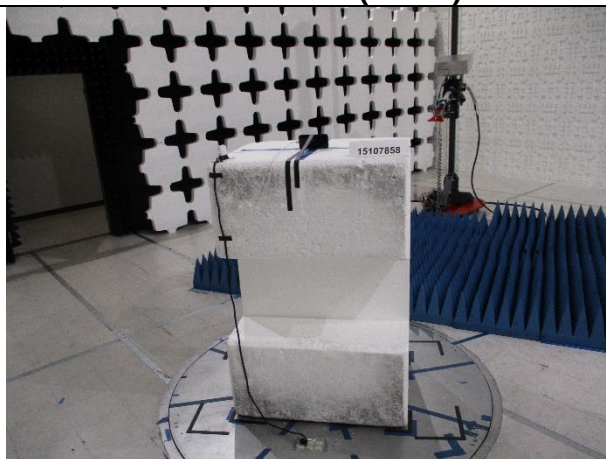
BELOW 1GHz (BACK)

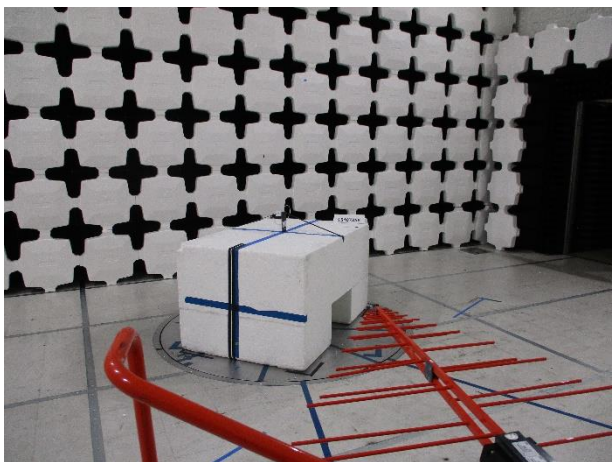
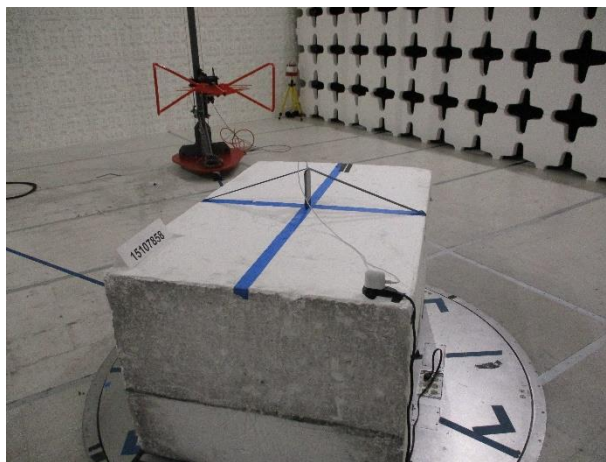
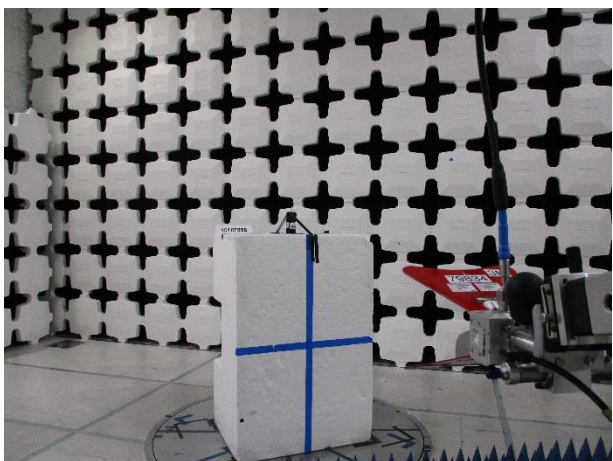
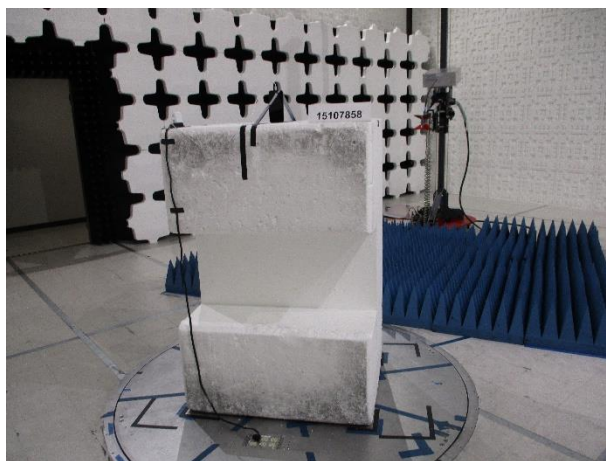


ABOVE 1GHz (FRONT)



ABOVE 1GHz (BACK)

Y (Landscape Orientation)**BELOW 1GHz (FRONT)****BELOW 1GHz (BACK)****ABOVE 1GHz (FRONT)****ABOVE 1GHz (BACK)**

Z (Portrait Orientation)**BELOW 1GHz (FRONT)****BELOW 1GHz (BACK)****ABOVE 1GHz (FRONT)****ABOVE 1GHz (BACK)**

2.5.4. UWB

X (Flatbed Orientation)



0.96-6GHz (FRONT)

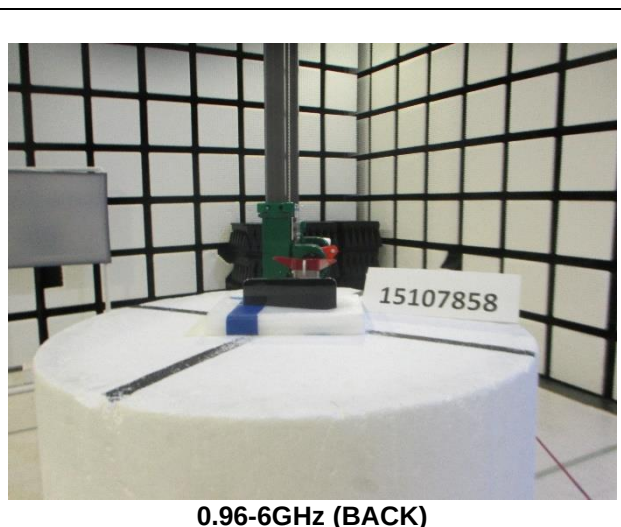


0.96-6GHz (BACK)

Y (Landscape Orientation)



0.96-6GHz (FRONT)

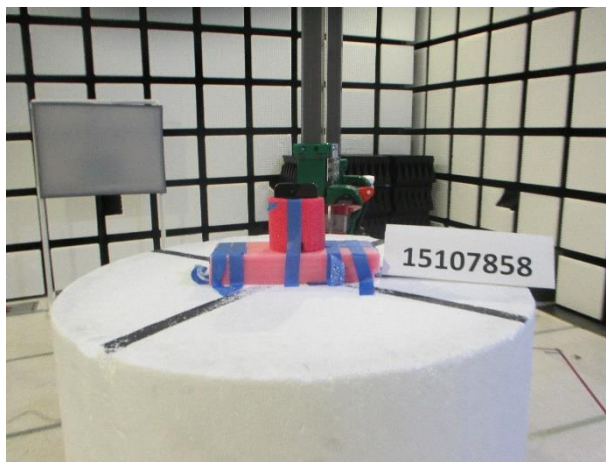


0.96-6GHz (BACK)

Z (Portrait Orientation)



0.96-6GHz (FRONT)



0.96-6GHz (BACK)

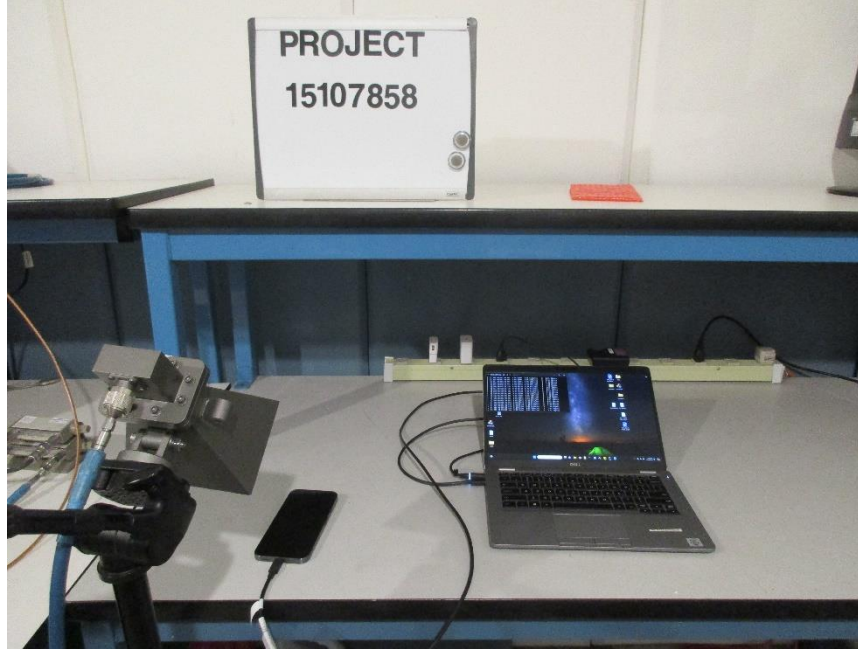
3. CBRS



4. DFS MEASUREMENT SETUP

DYNAMIC FREQUENCY SELECTION MEASUREMENT SETUP

CLIENT MODE FRONT PHOTO



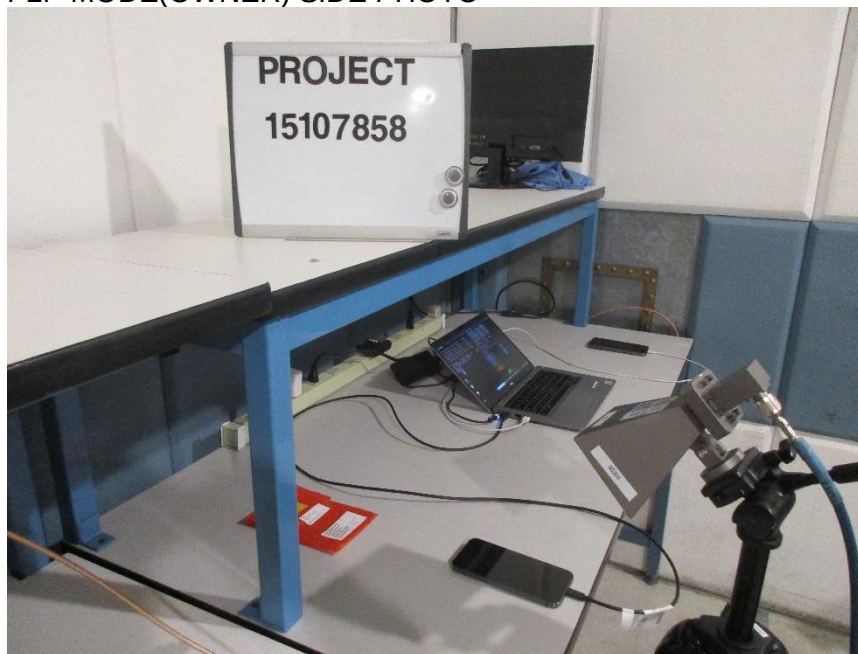
CLIENT MODE SIDE PHOTO



P2P MODE(OWNER) FRONT PHOTO



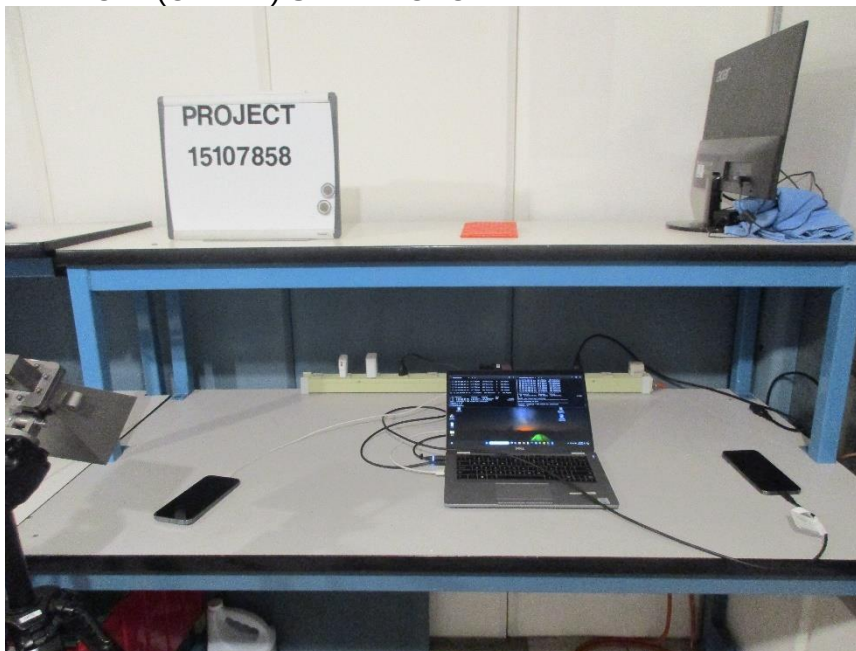
P2P MODE(OWNER) SIDE PHOTO



P2P MODE(CLIENT) FRONT PHOTO



P2P MODE(CLIENT) SIDE PHOTO



5. CONTENTION PROTOCOL MEASUREMENT SETUP

CONTENTION PROTOCOL PHOTO (FRONT)



CONTENTION PROTOCOL PHOTO (BACK)



END OF REPORT