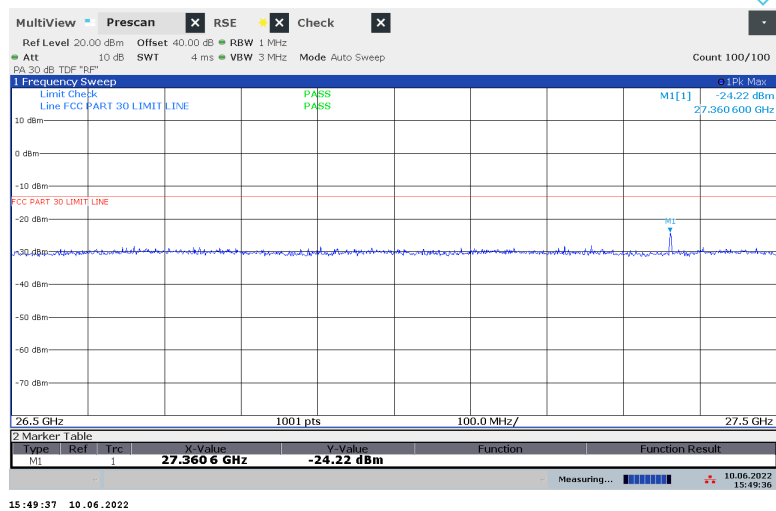
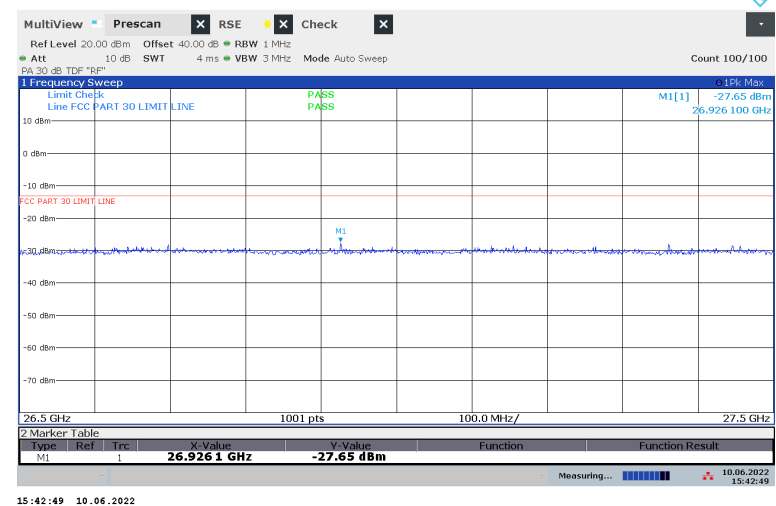


## 26.5 - 27.5 GHz, ANT M3, 1CC (Pre-scan using Pk Det.) Horizontal



## 26.5 - 27.5 GHz, ANT M3, 1CC (Pre-scan using Pk Det.) Vertical

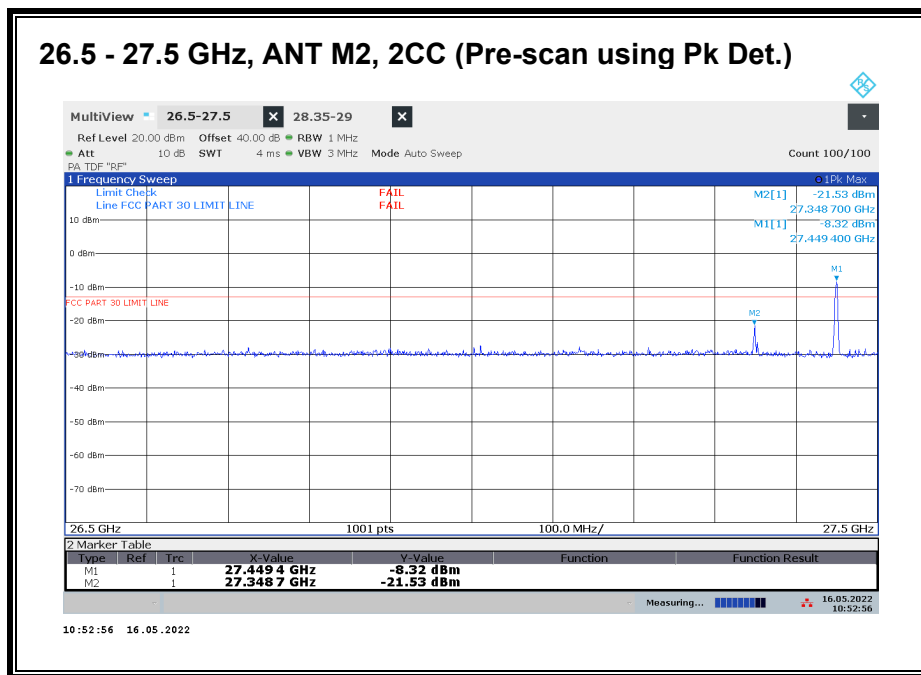


Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

**26.5 - 27.5 GHz n261, 1CC**

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M2	27.301	3	H	-34.19	-13	-21.19
M2	27.301	3	V	-41.54	-13	-28.54
M3	27.361	3	H	-45.68	-13	-32.68
M3	27.361	3	V	-45.88	-13	-32.88
M3	26.926	3	H	-35.80	-13	-22.80
M3	26.926	3	V	-41.5	-13	-28.50

## 26.5 – 27.5 GHz n261, 2CC



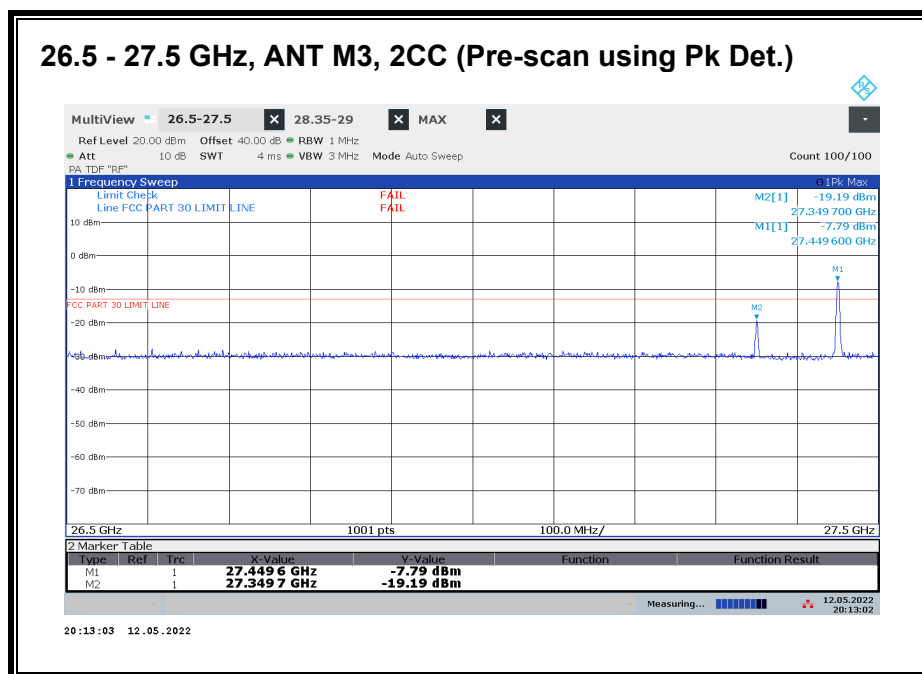
Worst case configuration:

SISO-DUAL\_QPSK\_(100 MHz + 100 MHz)\_Low CH\_RB Offset 1/32 (1RB-M)

Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M2	27.449	3	--	-15.73	-13	-2.73



Worst case configuration:

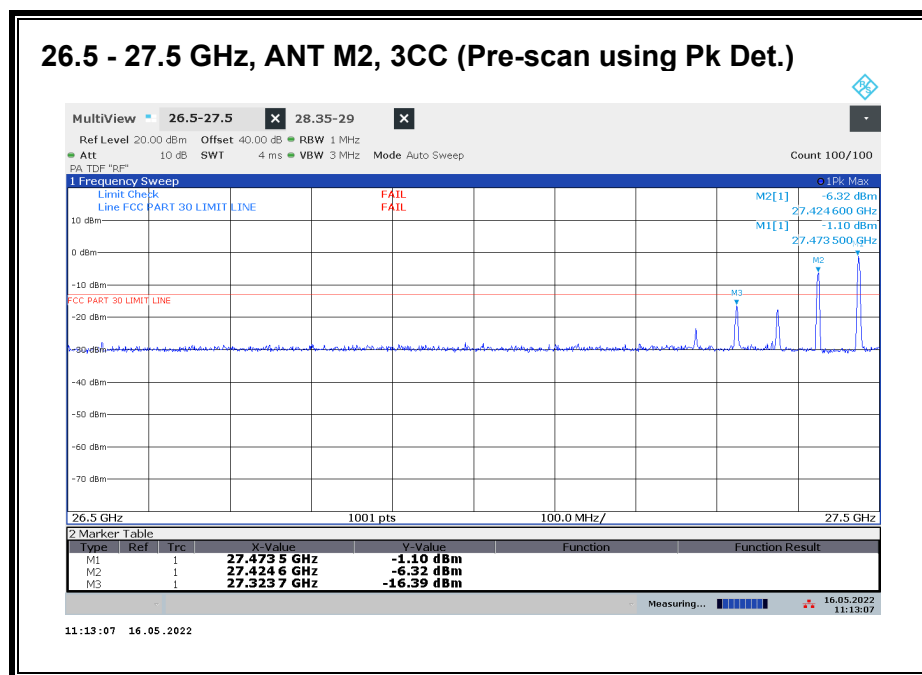
SISO-DUAL\_QPSK\_(100 MHz + 100 MHz)\_Low CH\_RB Offset 1/32 (1RB-M)

Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M3	27.449	3	--	-13.53	-13	-0.53

## 26.5 – 27.5 GHz n261, 3CC



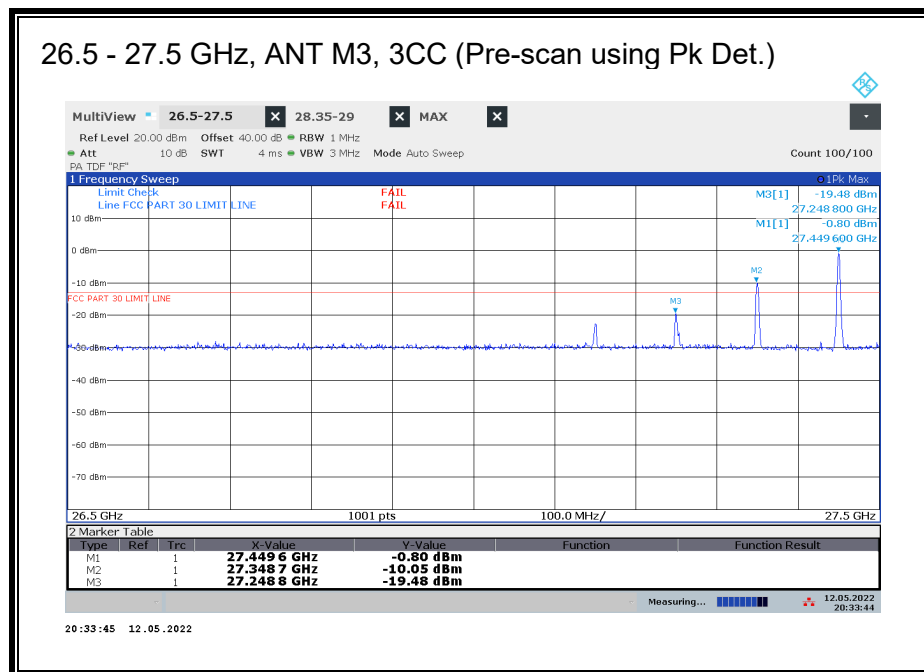
Worst case configuration:

SISO-DUAL\_QPSK\_(50 MHz + 50 MHz+ 50 MHz)\_Low CH\_RB Offset 1/15 (1RB-M)

Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M2	27.474	3	--	-16.31	-13	-3.31



Worst case configuration:

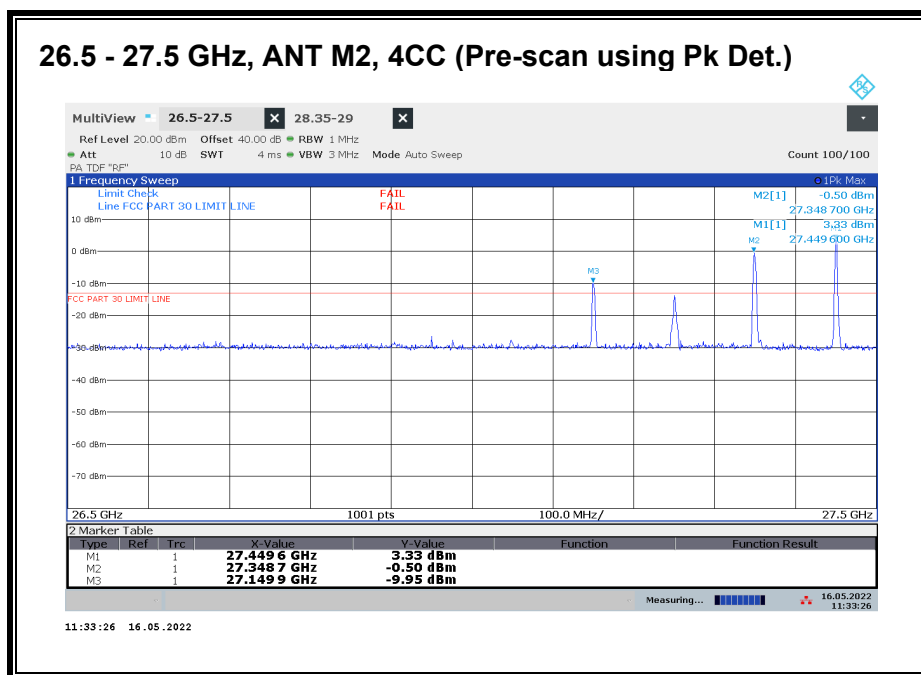
SISO-DUAL\_QPSK\_(100 MHz + 100 MHz+ 100 MHz)\_Low CH\_RB Offset 1/32 (1RB-M)

Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	TRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M3	27.449	3	--	-21.65	-13	-8.65

## 26.5 – 27.5 GHz n261, 4CC



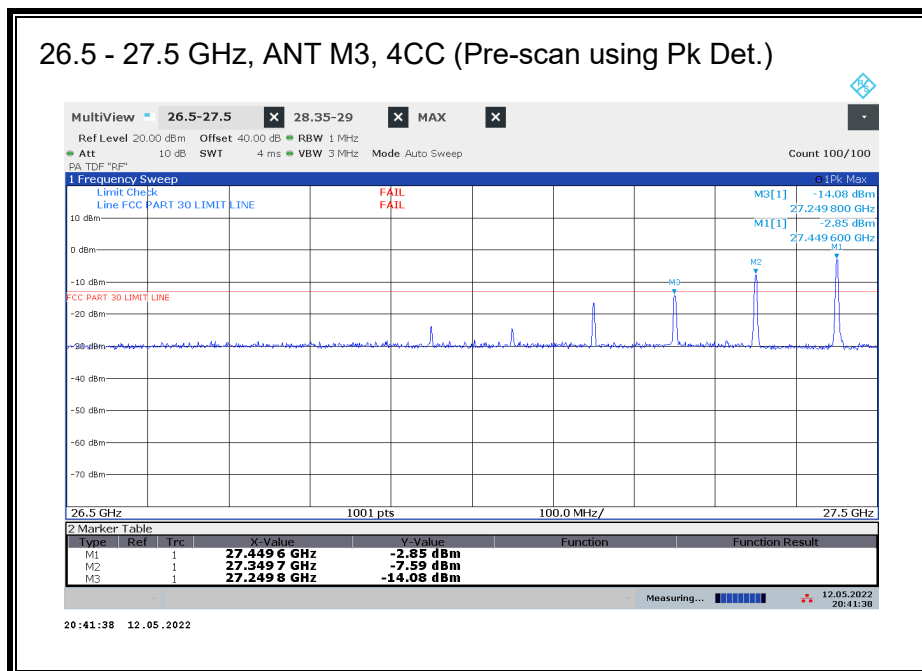
Worst case configuration:

SISO-DUAL\_QPSK\_(100 MHz + 100 MHz+ 100 MHz+ 100 MHz)\_Low CH\_RB Offset 1/32  
(1RB-M)

Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M2	27.449	3	--	-14.55	-13	-1.55



Worst case configuration:

SISO-DUAL\_QPSK\_(100 MHz + 100 MHz+ 100 MHz+ 100 MHz)\_Low CH\_RB Offset 1/32 (1RB-M)

Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

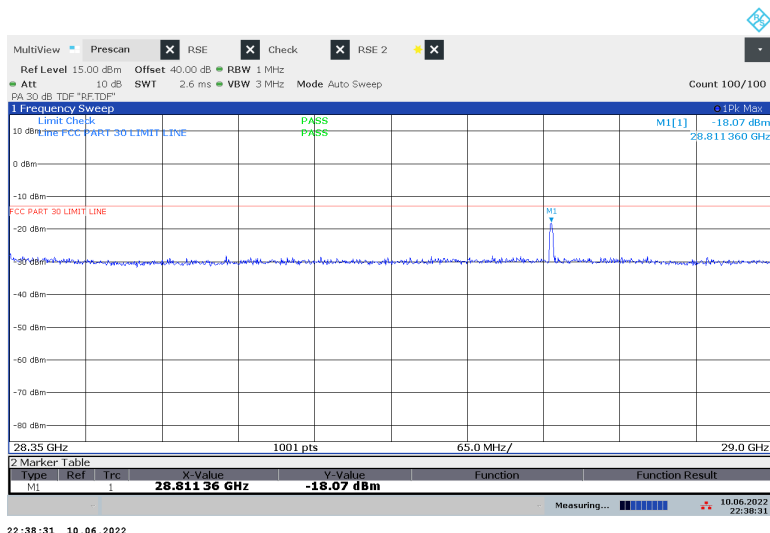
Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	TRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M3	27.449	3	--	-22.11	-13	-9.11



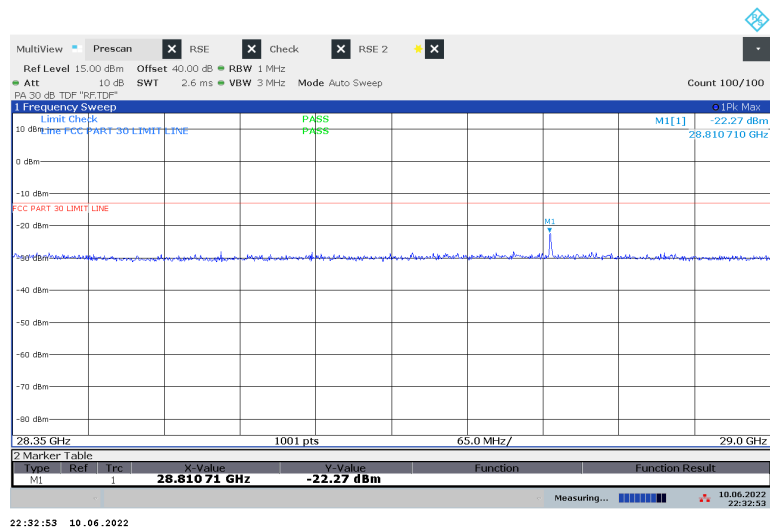
## 9.1.24. RSE n261 28.35 - 29 GHz

Note: 27.5 - 28.35 GHz covered by Fundamental and BE measurements.

### 28.35 - 29 GHz, ANT M2, 1CC (Pre-scan using Pk Det.) Horizontal

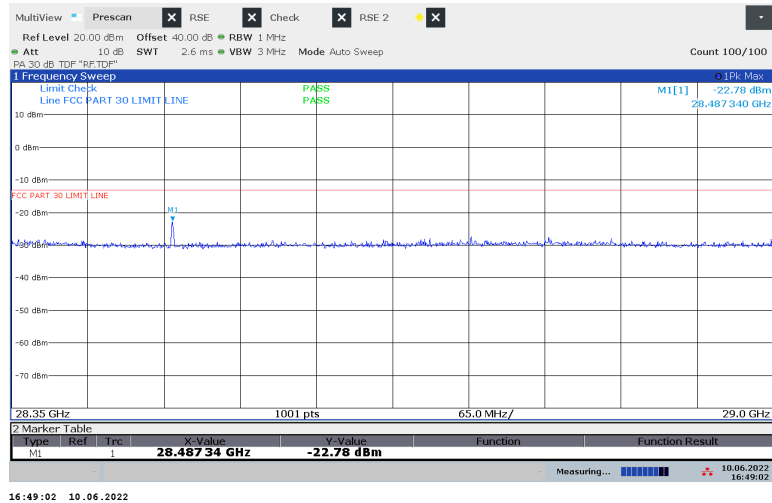


### 28.35 - 29 GHz, ANT M2, 1CC (Pre-scan using Pk Det.) Vertical

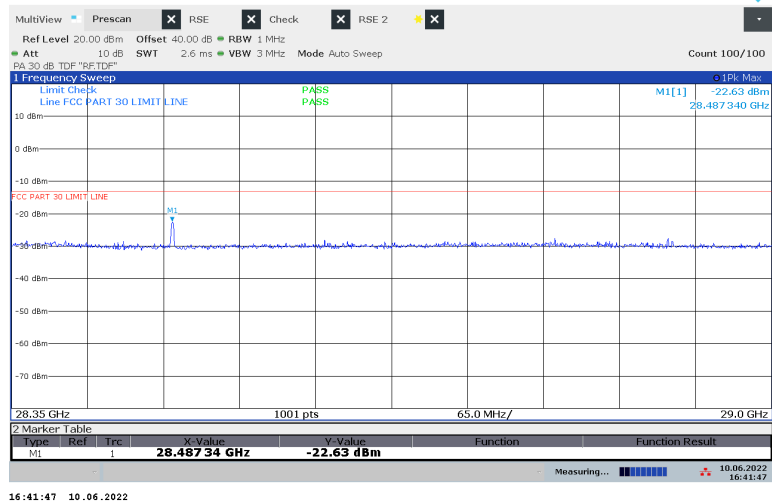


Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

### 28.35 - 29 GHz, ANT M3, 1CC (Pre-scan using Pk Det.) Horizontal



### 28.35 - 29 GHz, ANT M3, 1CC (Pre-scan using Pk Det.) Vertical

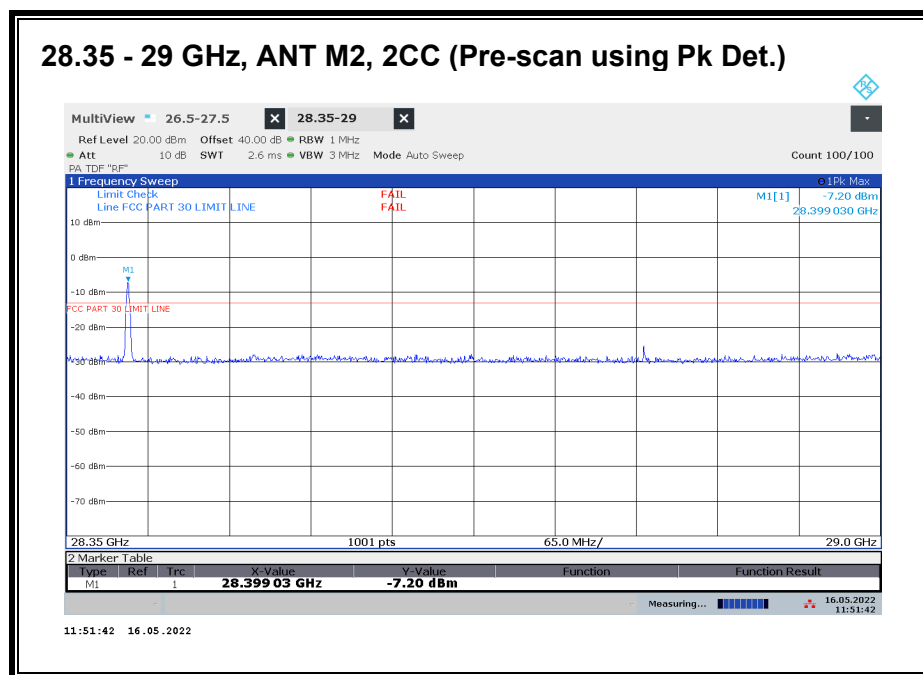


Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

**28.35 - 29 GHz n261, 1CC**

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M2	28.811	3	H	-27.47	-13	-14.47
M2	28.811	3	V	-38.29	-13	-25.29
M3	28.487	3	H	-35.76	-13	-22.76
M3	28.487	3	V	-31.61	-13	-18.61

## 28.35 - 29 GHz n261, 2CC



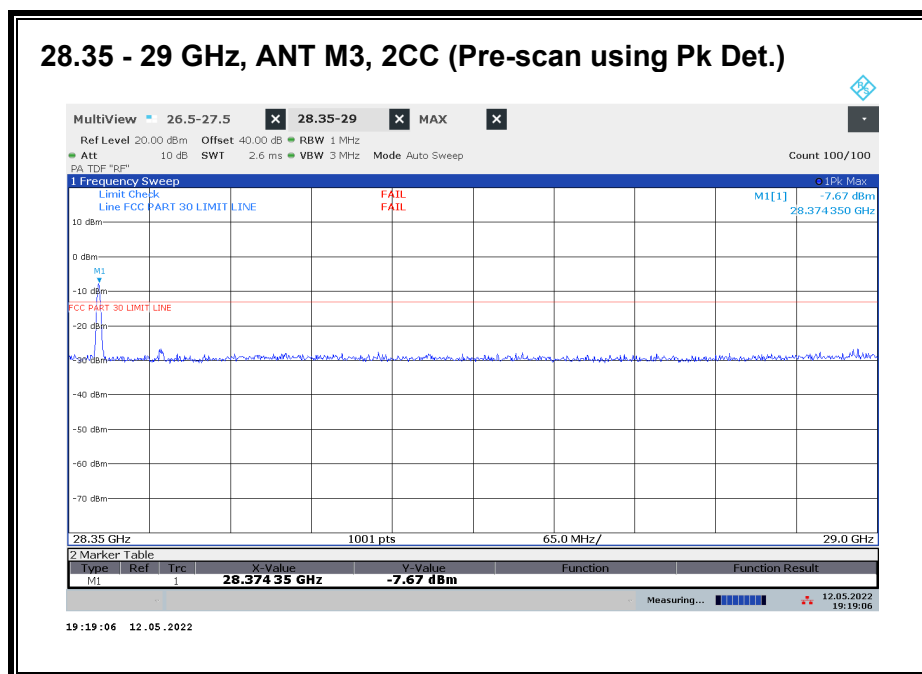
Worst case configuration:

SISO-DUAL\_QPSK\_(100 MHz + 100 MHz)\_High CH\_RB Offset 1/32 (1RB-M)

Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M2	28.399	3	--	-15.61	-13	-2.61



Worst case configuration:

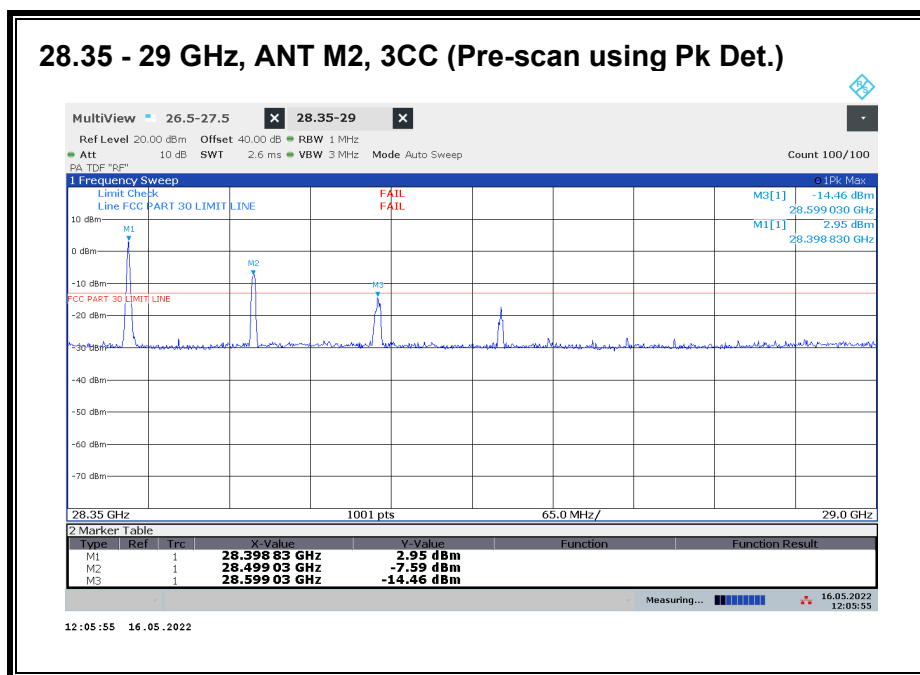
SISO-DUAL\_QPSK\_(50 MHz + 50 MHz)\_High CH\_RB Offset 1/15 (1RB-M)

Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas.	Rx Ant.	Corrected	TRP Limit	Margin
	(GHz)	Distance	Polarity	Avg EIRP	(dBm)	(dB)
		(m)	H/V	(dBm)		
M3	28.374	3	--	-13.82	-13	-0.82

## 28.35 - 29 GHz n261, 3CC



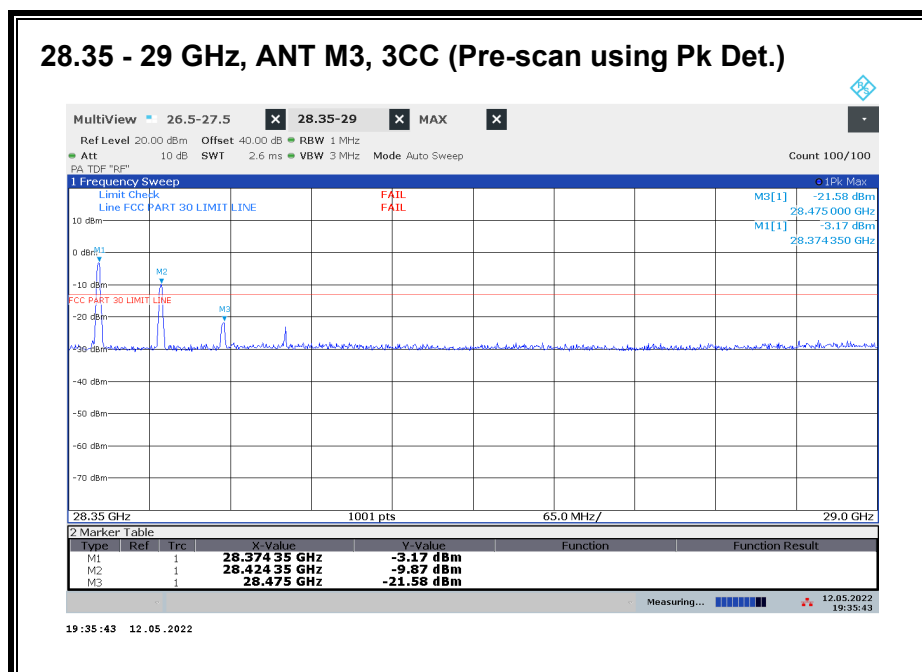
Worst case configuration:

SISO-DUAL\_QPSK\_(100 MHz + 100 MHz+ 100 MHz)\_High CH\_RB Offset 1/32 (1RB-M)

Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M2	28.399	3	--	-15.19	-13	-2.19



Worst case configuration:

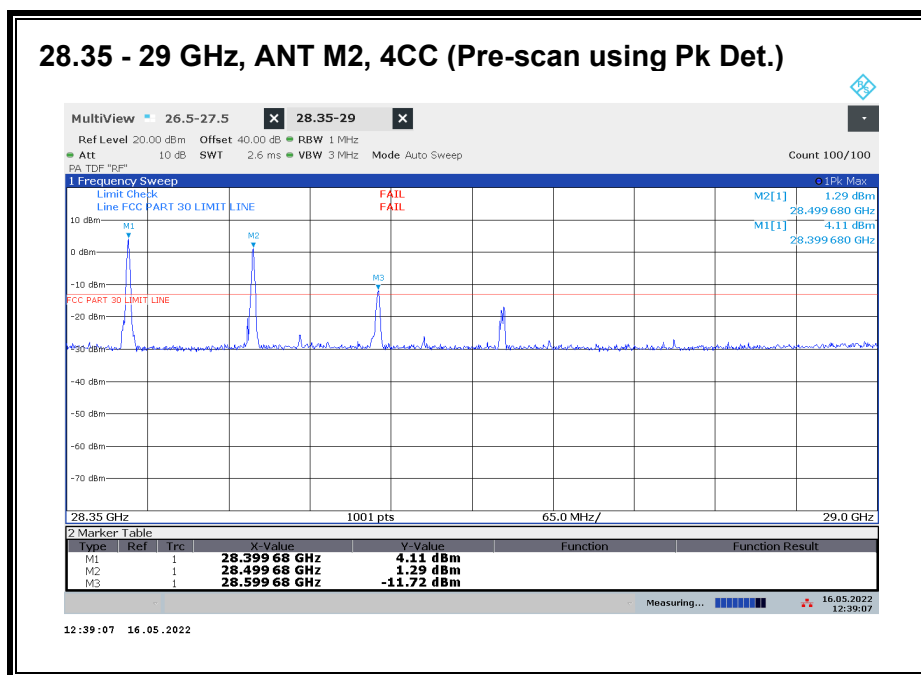
SISO-DUAL\_QPSK\_(50 MHz + 50 MHz+ 50 MHz)\_High CH\_RB Offset 1/15 (1RB-M)

Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M3	28.374	3	--	-13.07	-13	-0.07

## 28.35 - 29 GHz n261, 4CC



Worst case configuration:

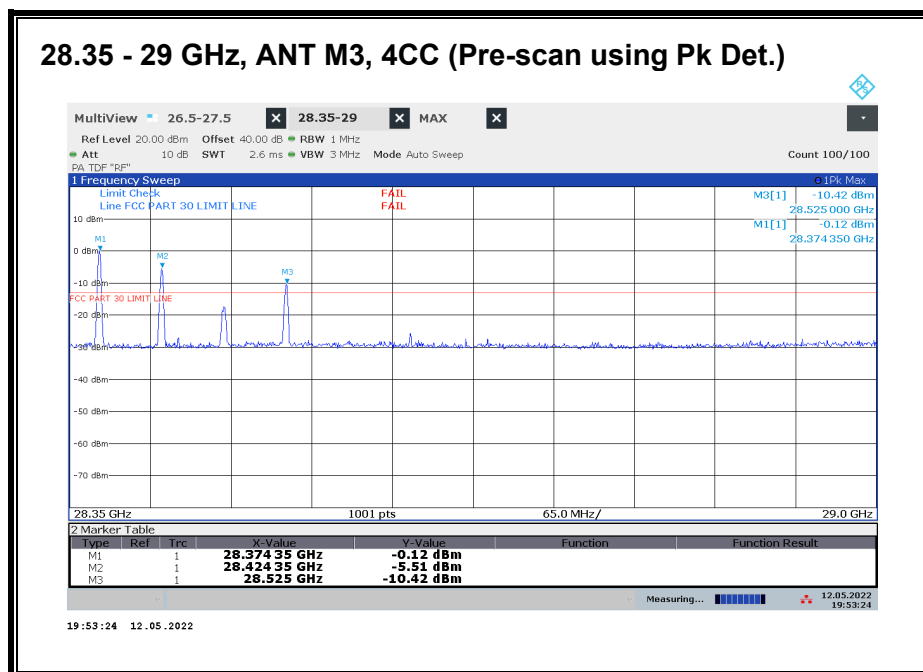
SISO-DUAL\_QPSK\_(100 MHz + 100 MHz+ 100 MHz+ 100 MHz)\_High CH\_RB Offset 1/32 (1RB-M)

Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	TRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M2	28.399	3	--	-24.25	-13	-11.25





Worst case configuration:

SISO-DUAL\_QPSK\_(50 MHz + 50 MHz+ 50 MHz+ 50 MHz)\_High CH\_RB Offset 1/15 (1RB-M)

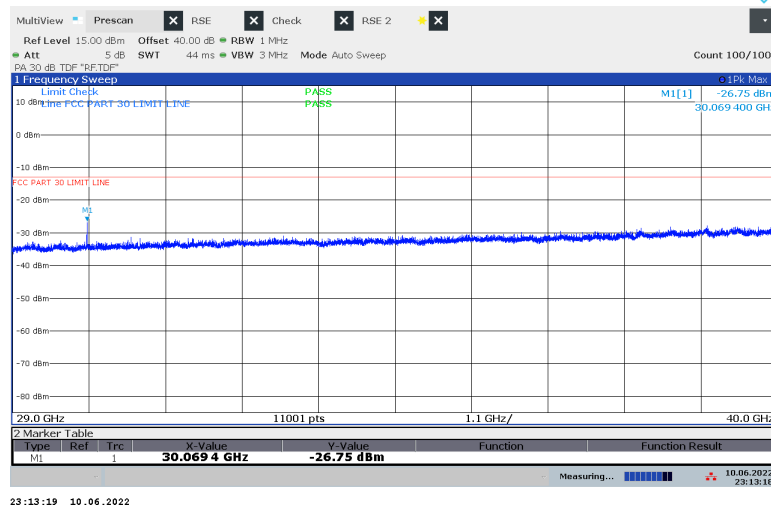
Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

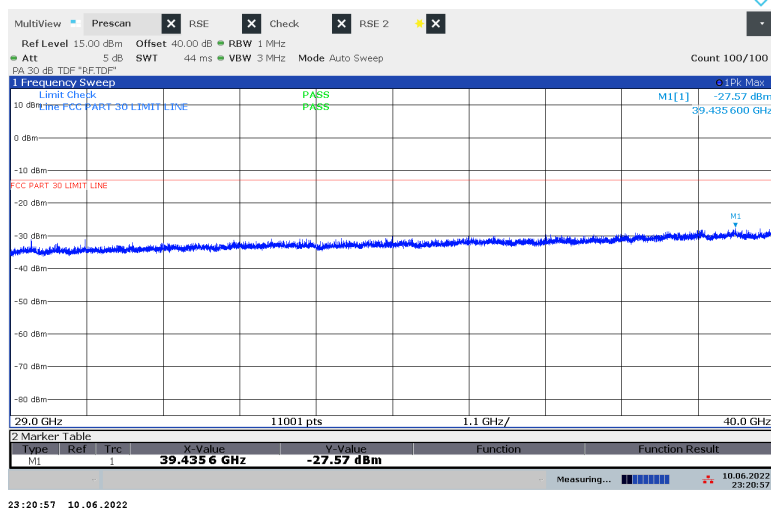
Antenna	Freq.	Meas.	Rx Ant.	TRP	TRP Limit	Margin
	(GHz)	Distance	Polarity			
		(m)	H/V	(dBm)	(dBm)	(dB)
M3	28.374	3	--	-22.30	-13	-9.30

## 9.1.25. RSE n261 29 – 40 GHz

### 29 - 40 GHz, ANT M2 (Pre-scan using Pk Det.) Horizontal

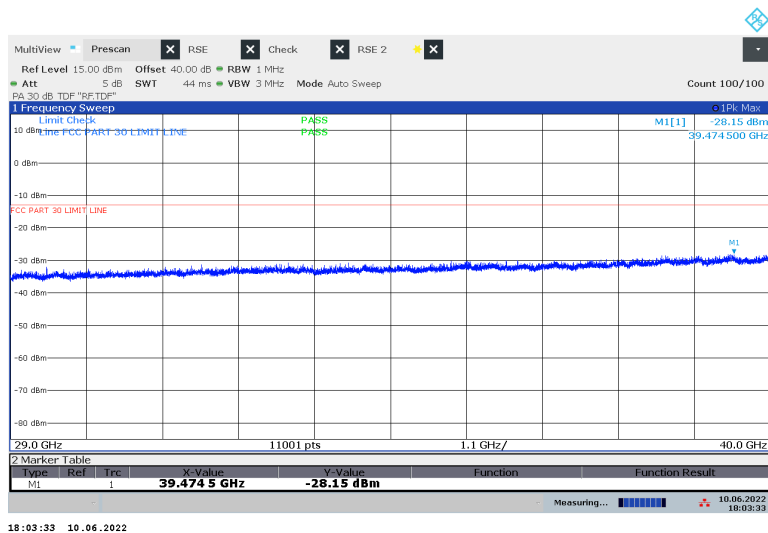


### 29 - 40 GHz, ANT M2 (Pre-scan using Pk Det.) Vertical

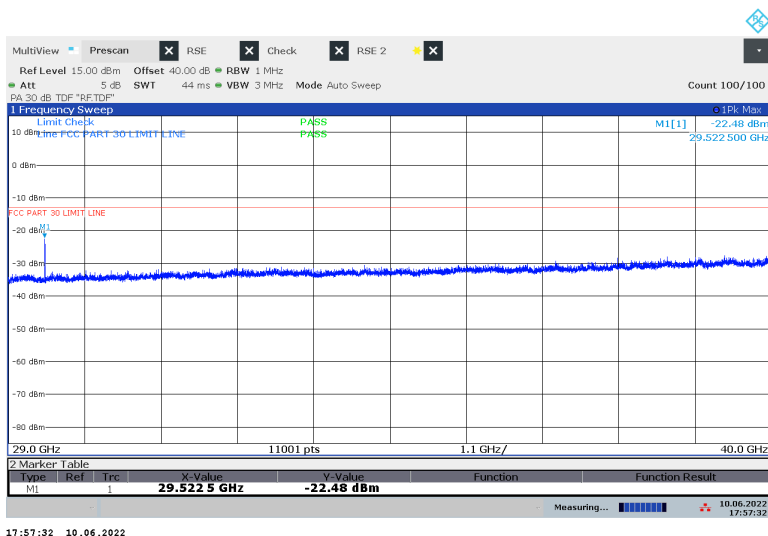


Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

## 29 - 40 GHz, ANT M3 (Pre-scan using Pk Det.) Horizontal



## 29 - 40 GHz, ANT M3 (Pre-scan using Pk Det.) Vertical



Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

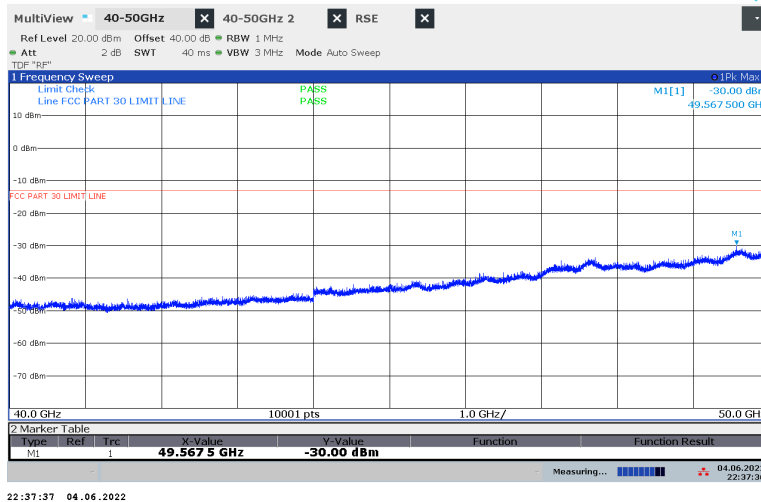
**29 - 40 GHz n261, 1CC**

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M2	30.069	3	H	-29.91	-13	-16.91
M2	30.069	3	V	-40.41	-13	-27.41
M3	29.523	3	H	-40.46	-13	-27.46
M3	29.523	3	V	-27.31	-13	-14.31

## 9.1.26. RSE n261 40 - 50 GHz

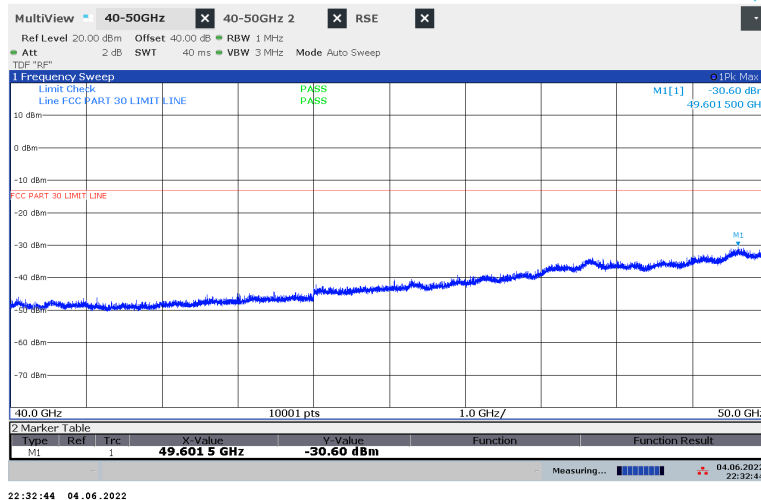
### 40 – 50 GHz, ANT M2 (Pre-scan using Pk Det.)

Horizontal



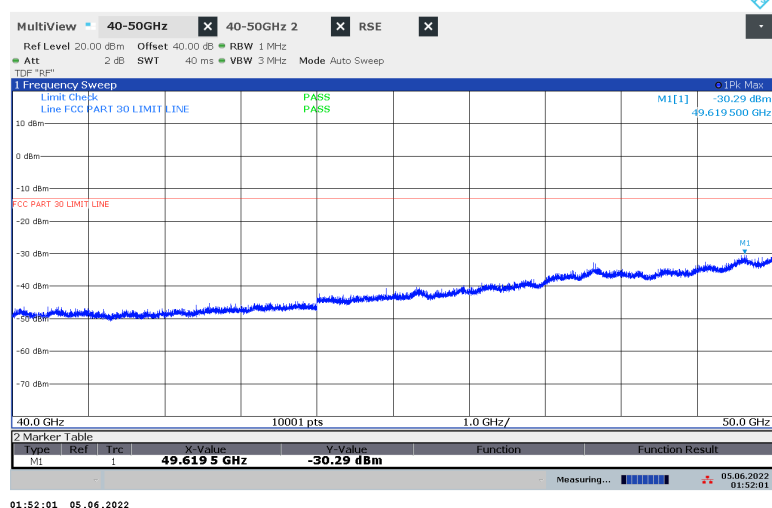
### 40 – 50 GHz, ANT M2 (Pre-scan using Pk Det.)

Vertical

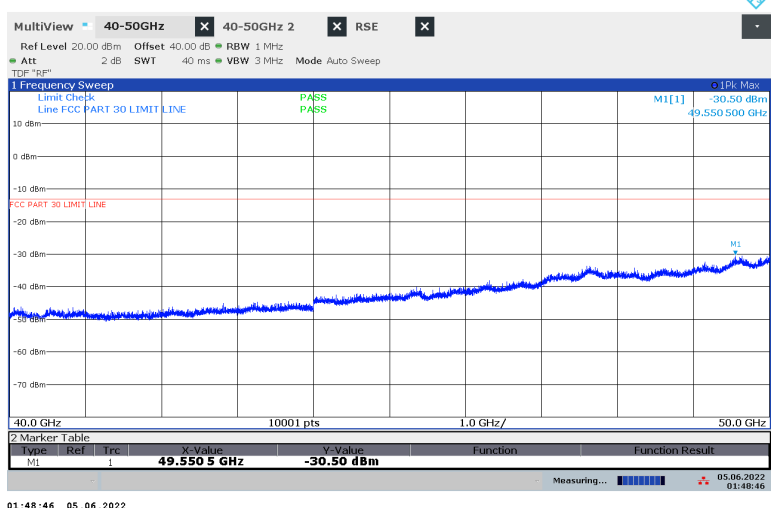


No emission detected using Peak Detection.

## 40 – 50 GHz, ANT M3 (Pre-scan using Pk Det.) Horizontal



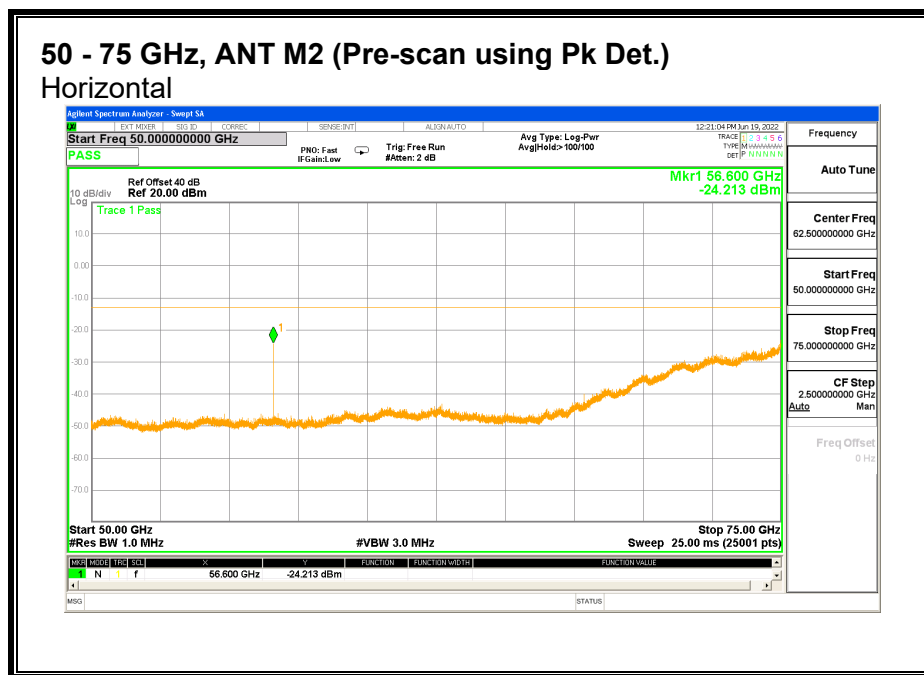
## 40 – 50 GHz, ANT M3 (Pre-scan using Pk Det.) Vertical



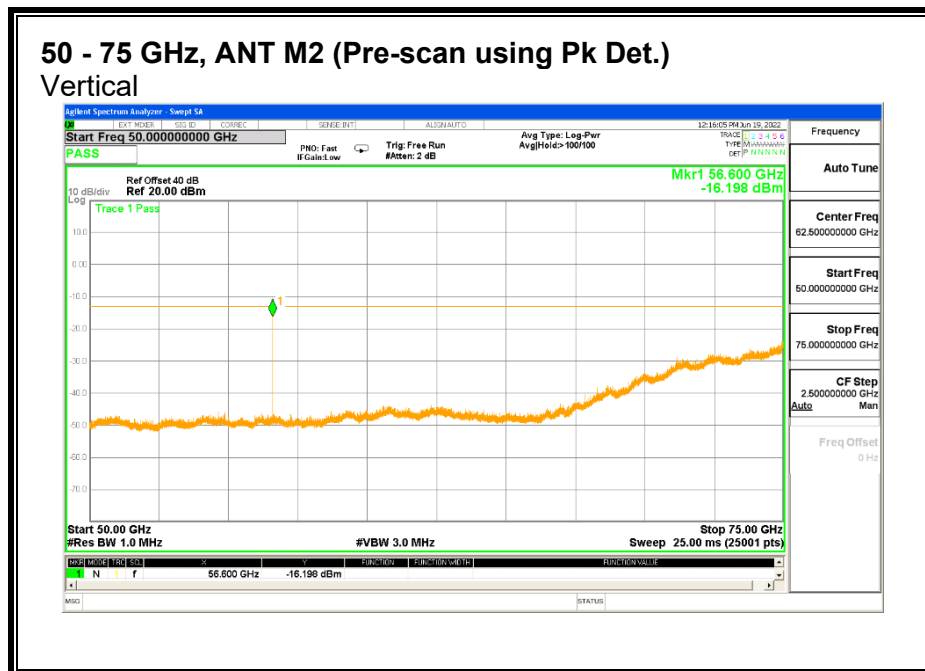
No emission detected using Peak Detection.

## 9.1.27. RSE n261 50 - 75 GHz

### 50 - 75 GHz, ANT M2 (Pre-scan using Pk Det.) Horizontal

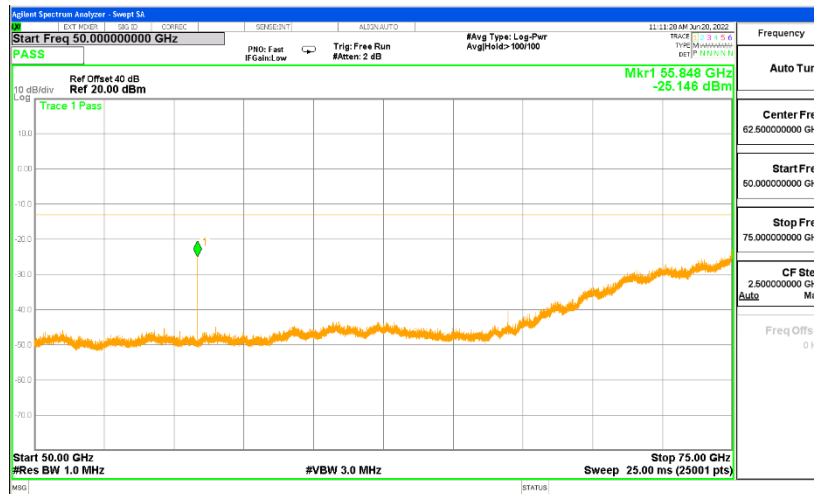


### 50 - 75 GHz, ANT M2 (Pre-scan using Pk Det.) Vertical

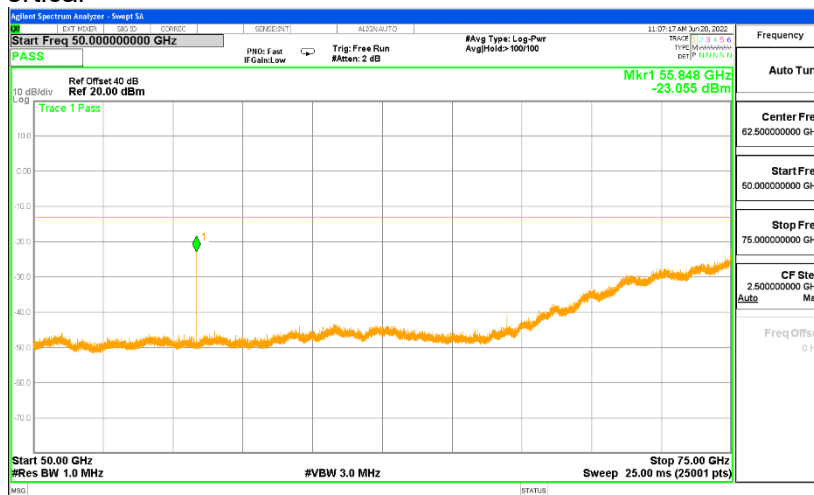


Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

### 50 - 75 GHz, ANT M3 (Pre-scan using Pk Det.) Horizontal



### 50 - 75 GHz, ANT M3 (Pre-scan using Pk Det.) Vertical



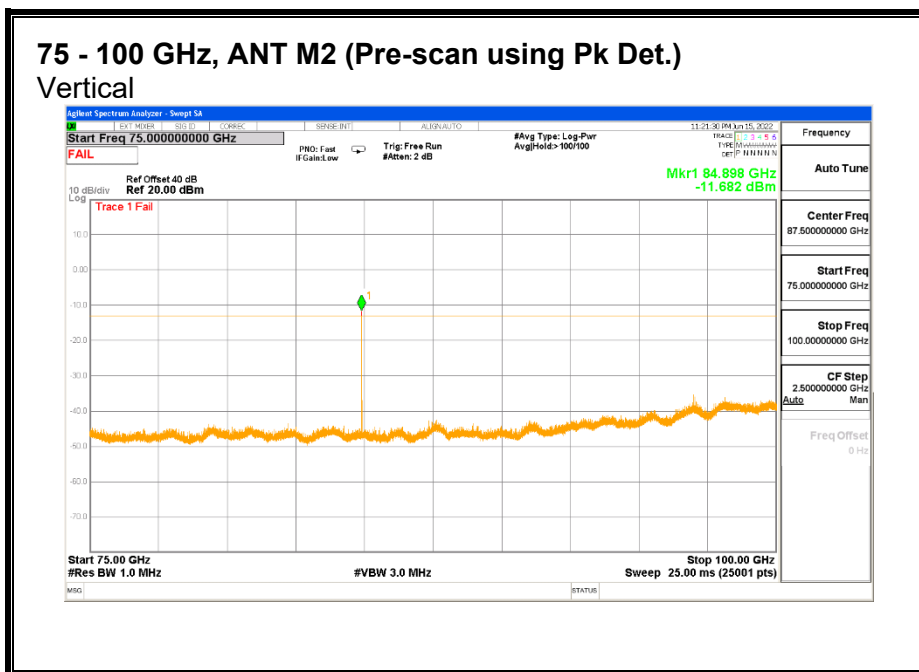
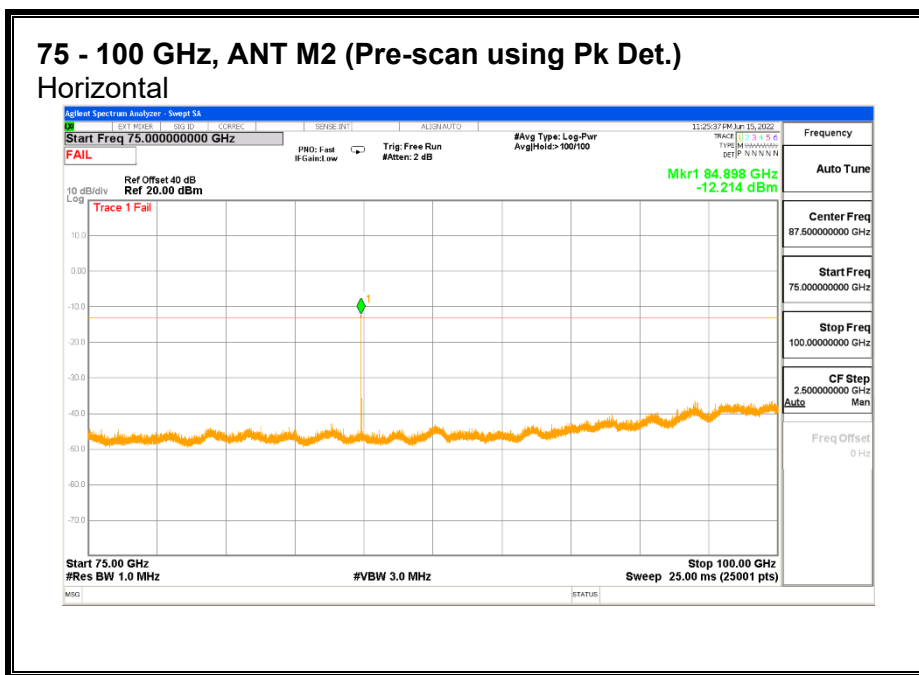
Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.



**50 - 75 GHz n261, 1CC**

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M2	56.600	1.5	H	-42.67	-13	-29.67
M2	56.600	1.5	V	-17.97	-13	-4.97
M3	55.848	1.5	H	-23.65	-13	-10.65
M3	55.848	1.5	V	-40.09	-13	-27.09

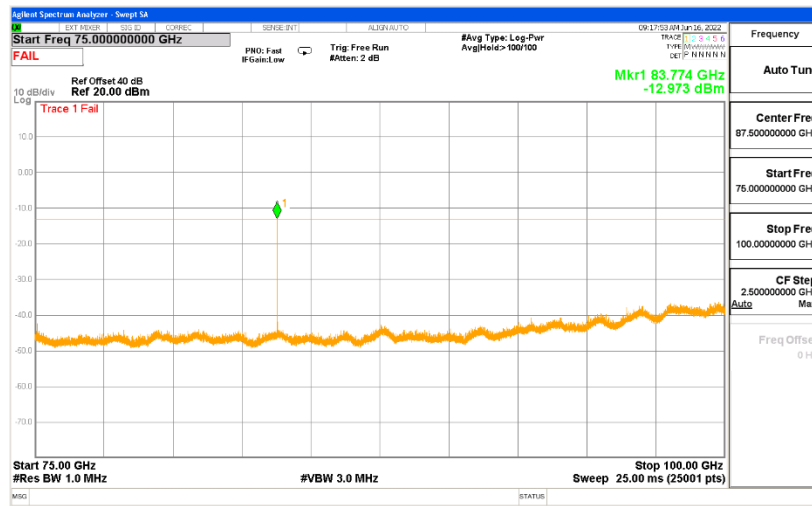
### 9.1.28. RSE n261 75 - 100 GHz



Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured

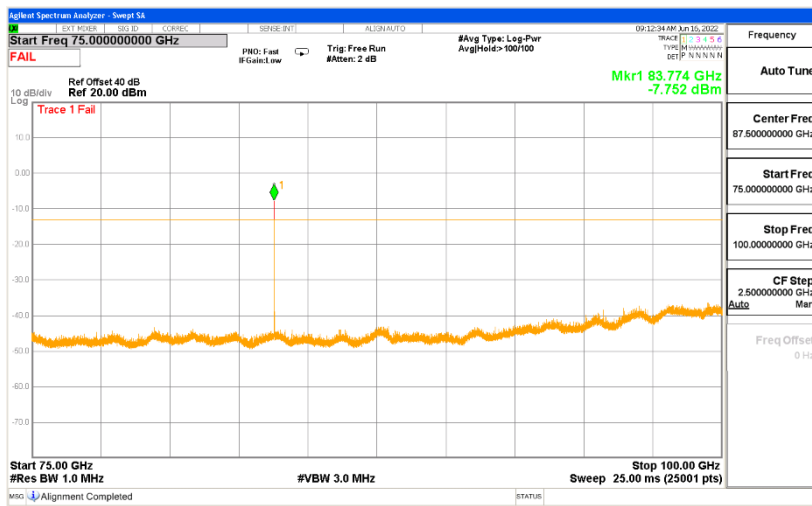
## 75 - 100 GHz, ANT M3 (Pre-scan using Pk Det.)

### Horizontal



## 75 - 100 GHz, ANT M3 (Pre-scan using Pk Det.)

### Vertical



Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured

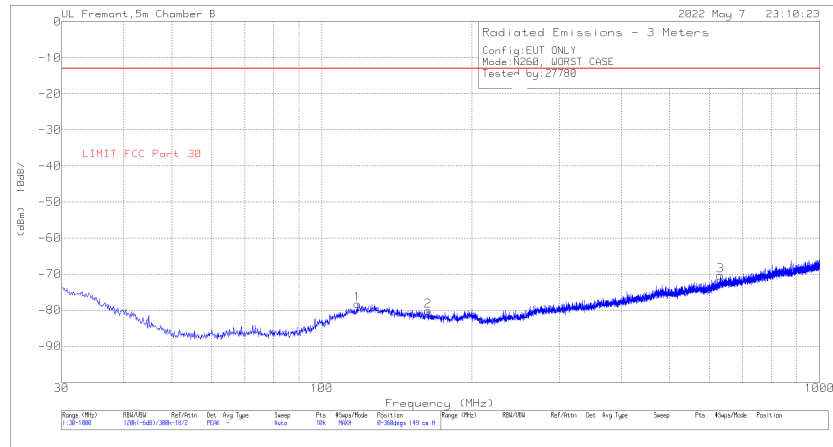
**75 - 100 GHz n261, 1CC**

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M2	84.897	1	H	-28.94	-13	-15.94
M2	84.897	1	V	-17.00	-13	-4.00
M3	83.774	1	H	-17.70	-13	-4.70
M3	83.774	1	V	-24.33	-13	-11.33

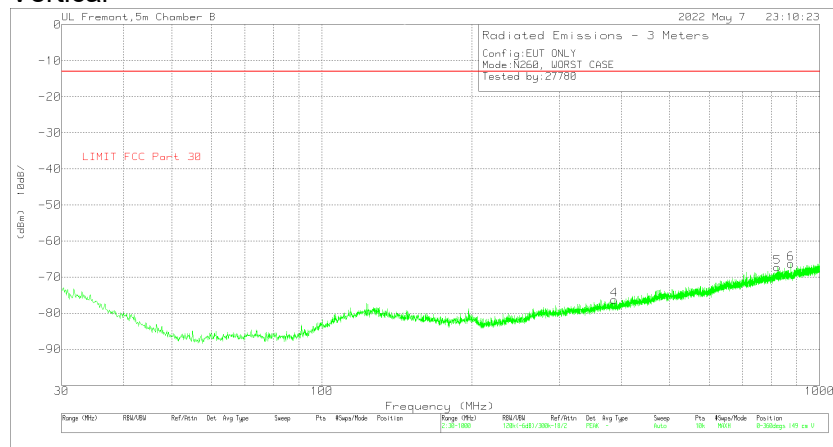
## 9.1.29. RSE n260 30 – 1000 MHz

### 30 – 1000 MHz, ANT M2 (Pre-scan using Pk Det.)

#### Horizontal



#### Vertical



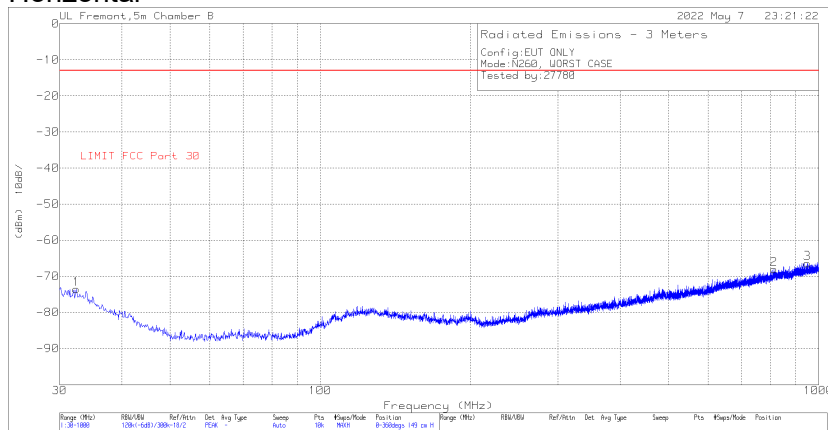
### Trace Markers

Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 203089 (dB/m)	Amp/Cbl (dB)	Unit Conversion (dB)	Corrected Reading (dBm)	LIMIT FCC Part 30 (dBm)	Margin (dB)	Azimuth (Degr)	Height (cm)	Polarity
1	117.834	-79.03	Pk	19.7	-30.6	11.7	-78.23	-13	-65.23	0-360	149	H
2	163.375	-79.47	Pk	18	-30.4	11.7	-80.17	-13	-67.17	0-360	149	H
4	386.766	-79.6	Pk	21	-29.4	11.7	-76.3	-13	-63.3	0-360	149	V
3	631.594	-79.1	Pk	25.6	-28.6	11.7	-70.4	-13	-57.4	0-360	149	H
5	822.878	-79.44	Pk	28.1	-27.6	11.7	-67.24	-13	-54.24	0-360	149	V
6	875.064	-79.03	Pk	28.2	-27.1	11.7	-66.23	-13	-53.23	0-360	149	V

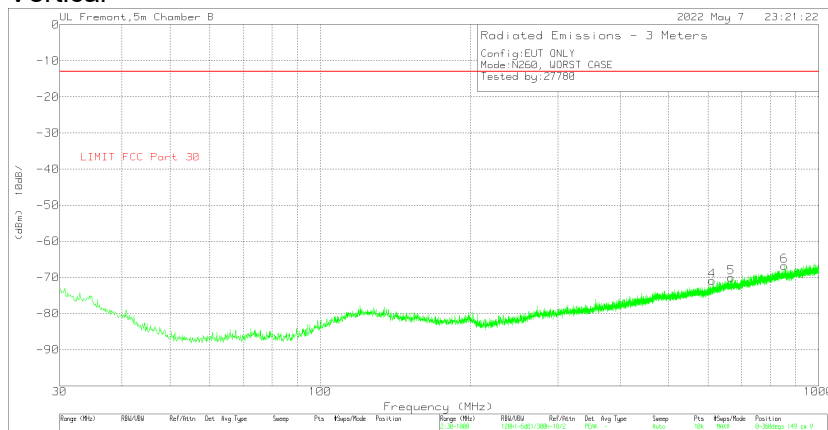
Pk - Peak detector

### 30 – 1000 MHz, ANT M3 (Pre-scan using Pk Det.)

#### Horizontal



#### Vertical



### Trace Markers

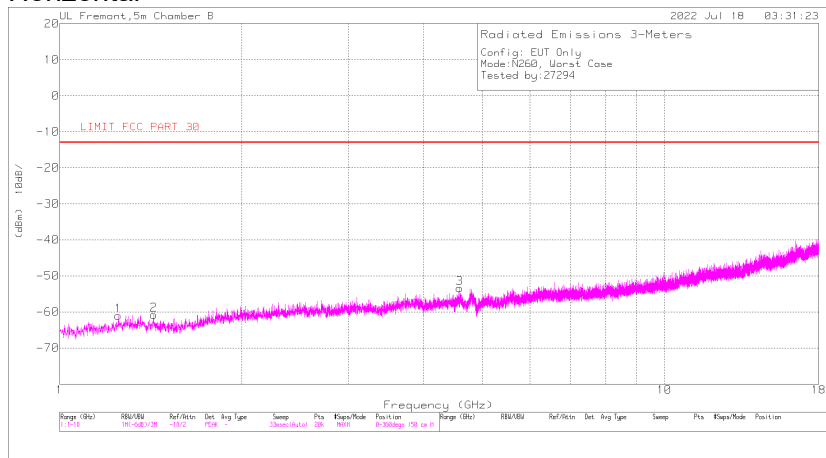
Marker	Frequency (MHz)	Meter Reading (dBm)	Det	AF 203089 (dB/m)	Amp/Cbl (dB)	Unit Conversion (dB)	Corrected Reading (dBm)	LIMIT FCC Part 30 (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	32.425	-78.84	Pk	25.1	-31.5	11.7	-73.54	-13	-60.54	0-360	149	H
4	611.903	-78.65	Pk	24.8	-28.7	11.7	-70.85	-13	-57.85	0-360	149	V
5	666.902	-79.21	Pk	26	-28.5	11.7	-70.01	-13	-57.01	0-360	149	V
2	813.081	-80.05	Pk	28	-27.7	11.7	-68.05	-13	-55.05	0-360	149	H
6	853.045	-79.62	Pk	28.5	-27.3	11.7	-66.72	-13	-53.72	0-360	149	V
3	948.881	-80.94	Pk	29.2	-26.3	11.7	-66.34	-13	-53.34	0-360	149	H

Pk - Peak detector

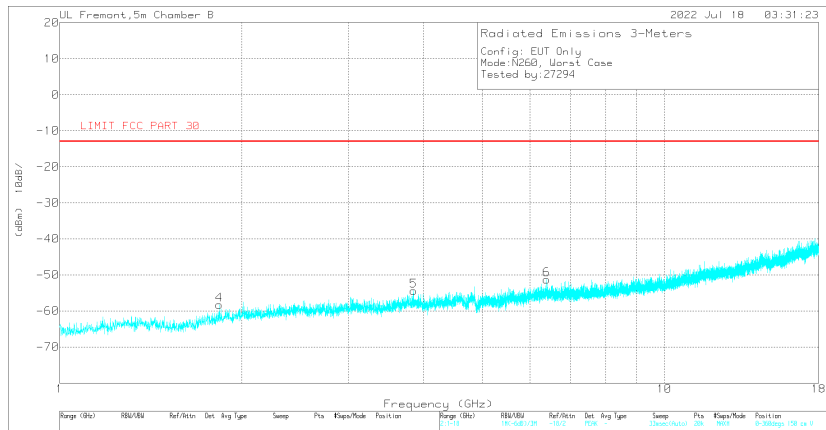


## 1 – 18 GHz, ANT M3 (Pre-scan using Pk Det.)

### Horizontal



### Vertical



## Trace Markers

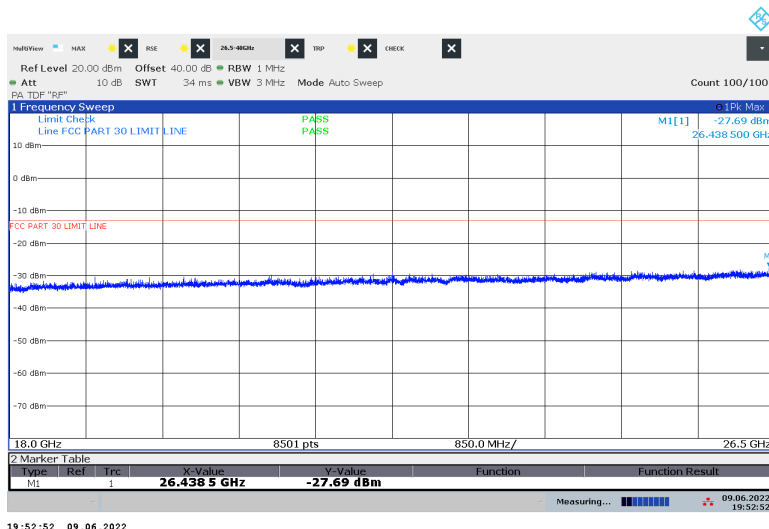
Marker	Frequency (GHz)	Meter Reading (dBm)	Det	AF T345 (dB/m)	Amp/Cbl (dB)	Unit Conversion (dB)	Corrected Reading (dBm)	LIMIT FCC Part 30 (dBm)	Margin (dB)	Azimuth (Degs)	Height (cm)	Polarity
1	1.249913	-66.07	Pk	28.8	-35.5	11.7	-61.07	-13	-48.07	0-360	150	H
2	1.431822	-65.74	Pk	29	-35.7	11.7	-60.74	-13	-47.74	0-360	150	H
4	1.835592	-65.2	Pk	30.8	-35.6	11.7	-58.3	-13	-45.3	0-360	150	V
5	3.850194	-66.59	Pk	33.6	-33.1	11.7	-54.39	-13	-41.39	0-360	150	V
3	4.590582	-68.36	Pk	34.2	-31	11.7	-53.46	-13	-40.46	0-360	150	H
6	6.386722	-70.2	Pk	35.8	-28.6	11.7	-51.3	-13	-38.3	0-360	150	V

Pk - Peak detector

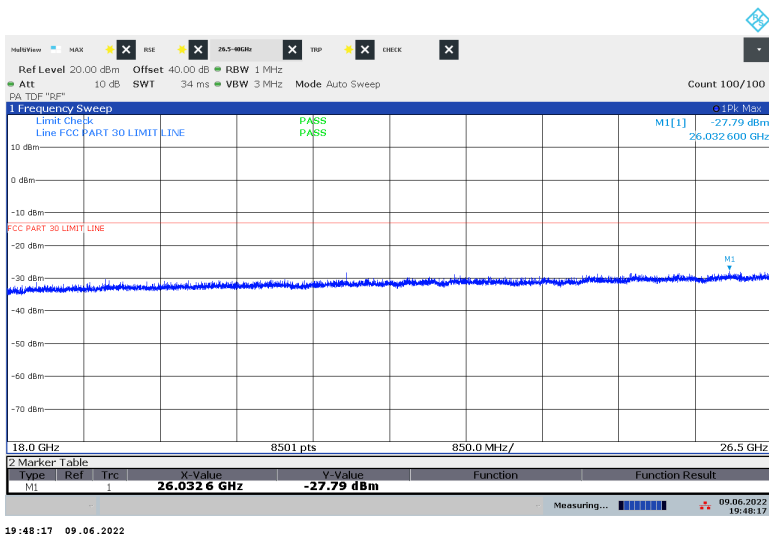


## 9.1.31. RSE n260 18 - 26.5 GHz

### 18 - 26.5 GHz, ANT M2 (Pre-scan using Pk Det.) Horizontal

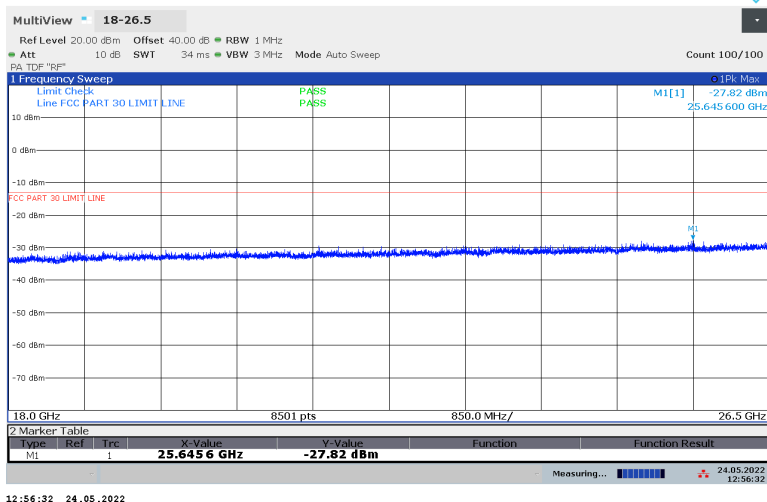


### 18 - 26.5 GHz, ANT M2 (Pre-scan using Pk Det.) Vertical

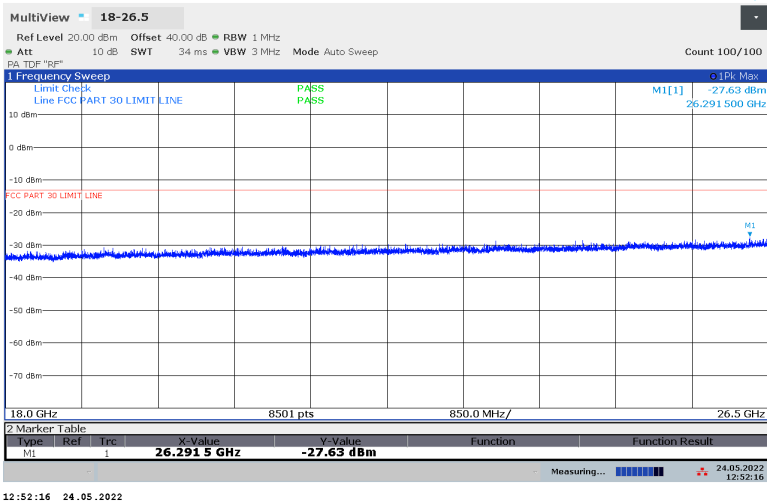


No emission detected using Peak Detection.

## 18 - 26.5 GHz, ANT M3 (Pre-scan using Pk Det.) Horizontal



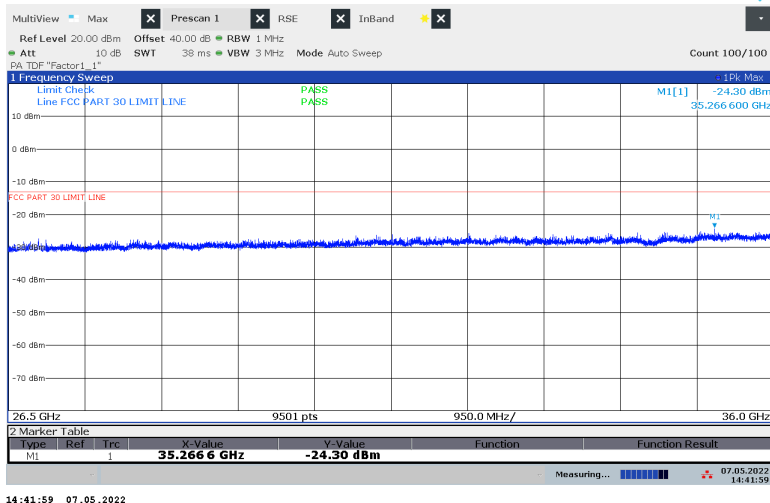
## 18 - 26.5 GHz, ANT M3 (Pre-scan using Pk Det.) Vertical



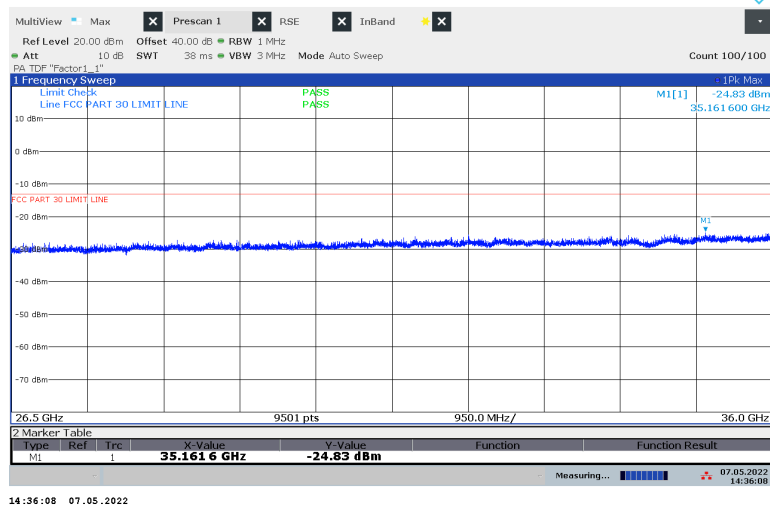
No emission detected using Peak Detection.

### 9.1.32. RSE n260 26.5 - 36 GHz

#### 26.5 - 36 GHz, ANT M2, 1CC (Pre-scan using Pk Det.) Horizontal

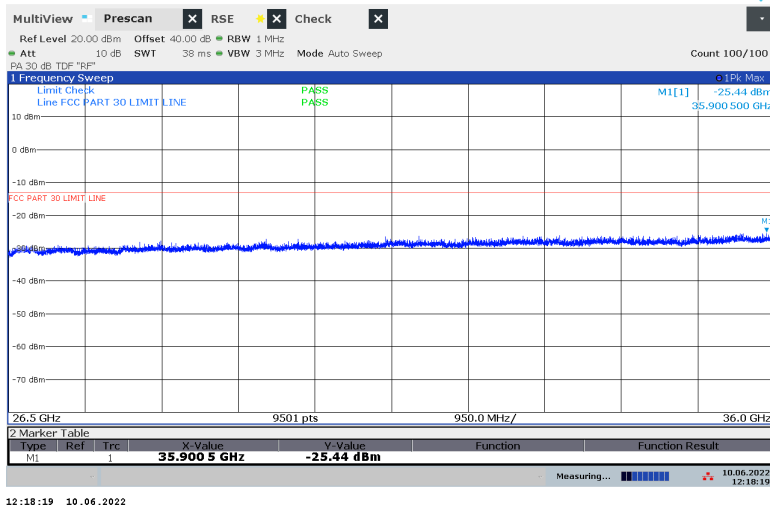


#### 26.5 - 36 GHz, ANT M2, 1CC (Pre-scan using Pk Det.) Vertical

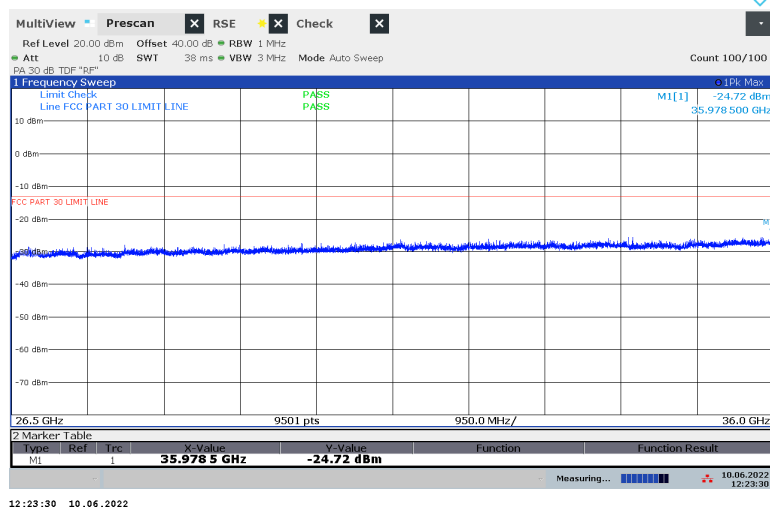


No emission detected using Peak Detection.

## 26.5 - 36 GHz, ANT M3, 1CC (Pre-scan using Pk Det.) Horizontal



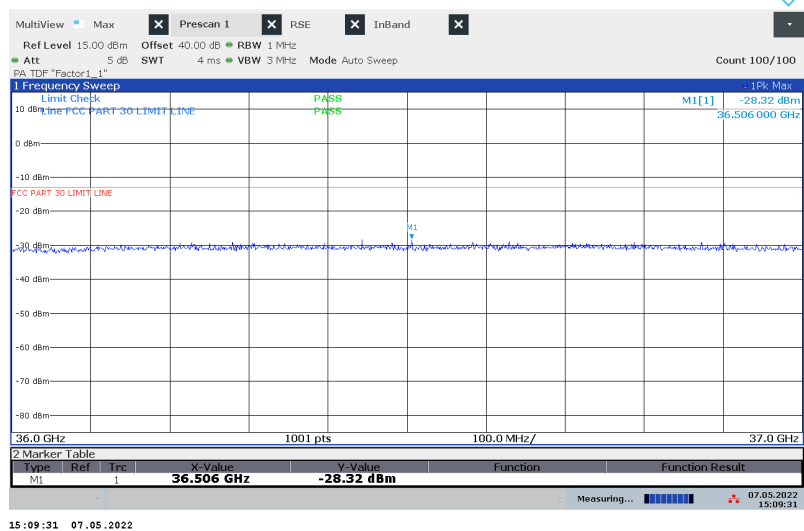
## 26.5 - 36 GHz, ANT M3, 1CC (Pre-scan using Pk Det.) Vertical



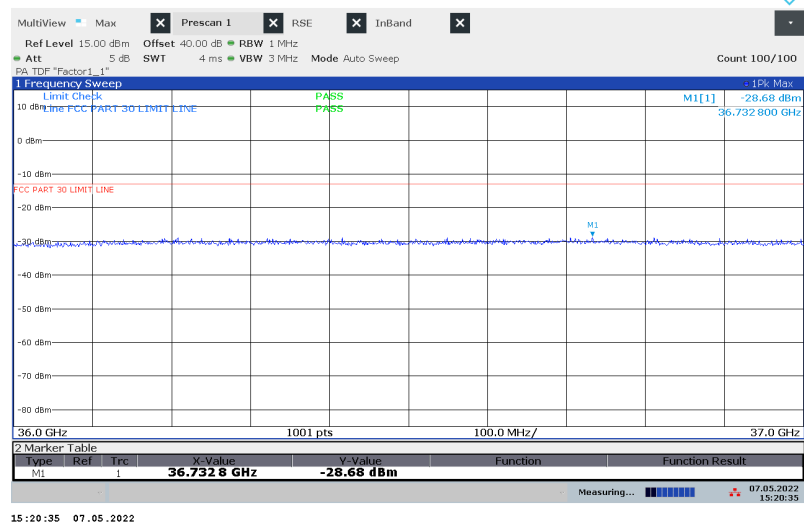
No emission detected using Peak Detection.

### 9.1.33. RSE n260 36 – 37 GHz

#### 36 - 37 GHz, ANT M2, 1CC (Pre-scan using Pk Det.) Horizontal

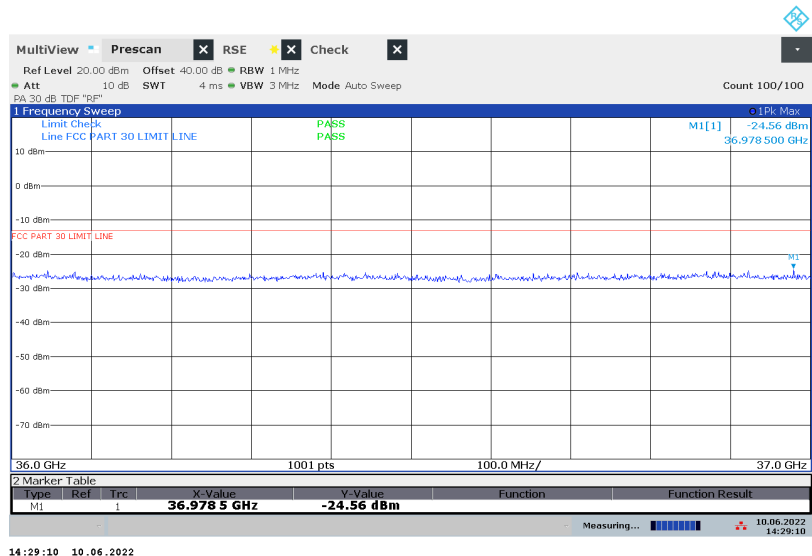


#### 36 - 37 GHz, ANT M2, 1CC (Pre-scan using Pk Det.) Vertical

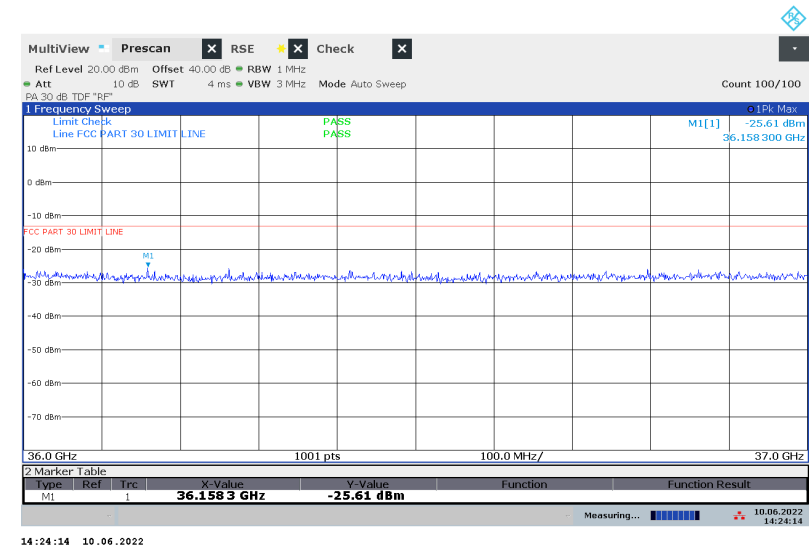


No emission detected using Peak Detection.

### 36 - 37 GHz, ANT M3, 1CC (Pre-scan using Pk Det.) Horizontal

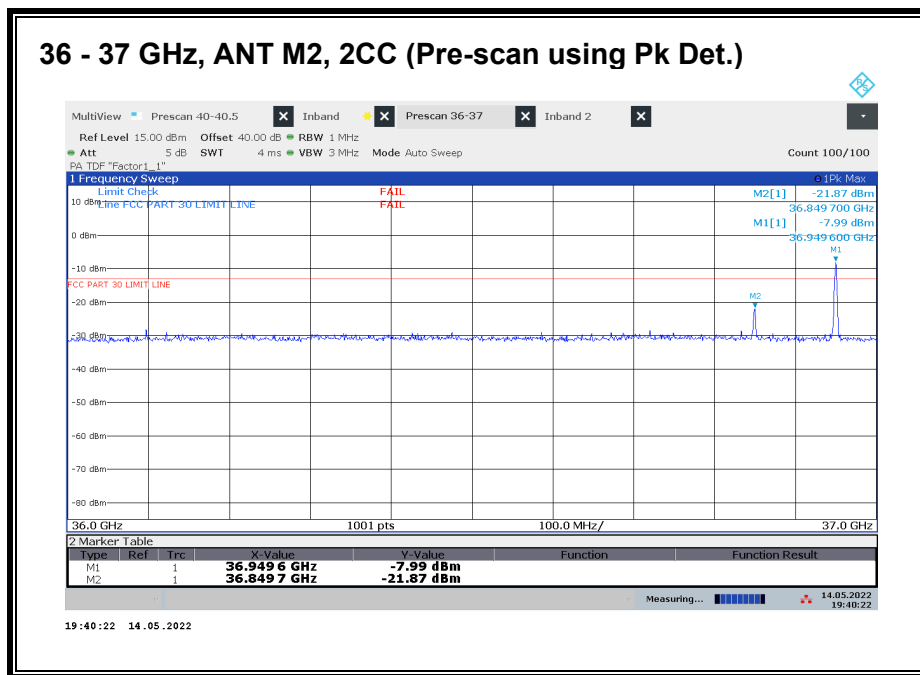


### 36 - 37 GHz, ANT M3, 1CC (Pre-scan using Pk Det.) Vertical



No emission detected using Peak Detection.

### 36 - 37 GHz n260, 2CC



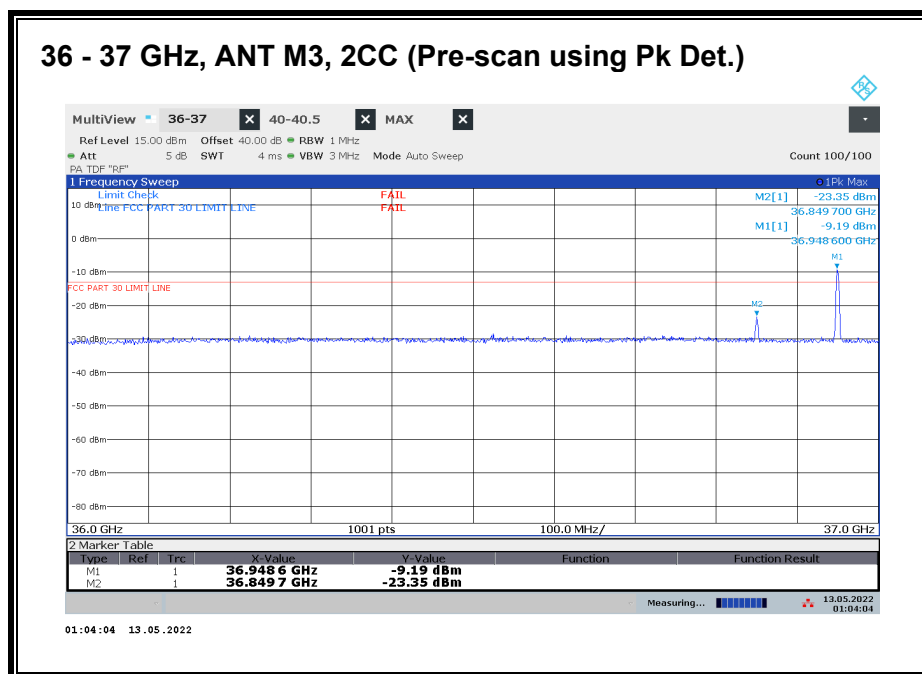
Worst case configuration:

SISO-DUAL\_QPSK\_(100 MHz + 100 MHz)\_Low CH\_RB Offset 1/32 (1RB-M)

Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M2	36.949	3	--	-16.50	-13	-3.50



Worst case configuration:

SISO-DUAL\_QPSK\_(100 MHz + 100 MHz)\_Low CH\_RB Offset 1/32 (1RB-M)

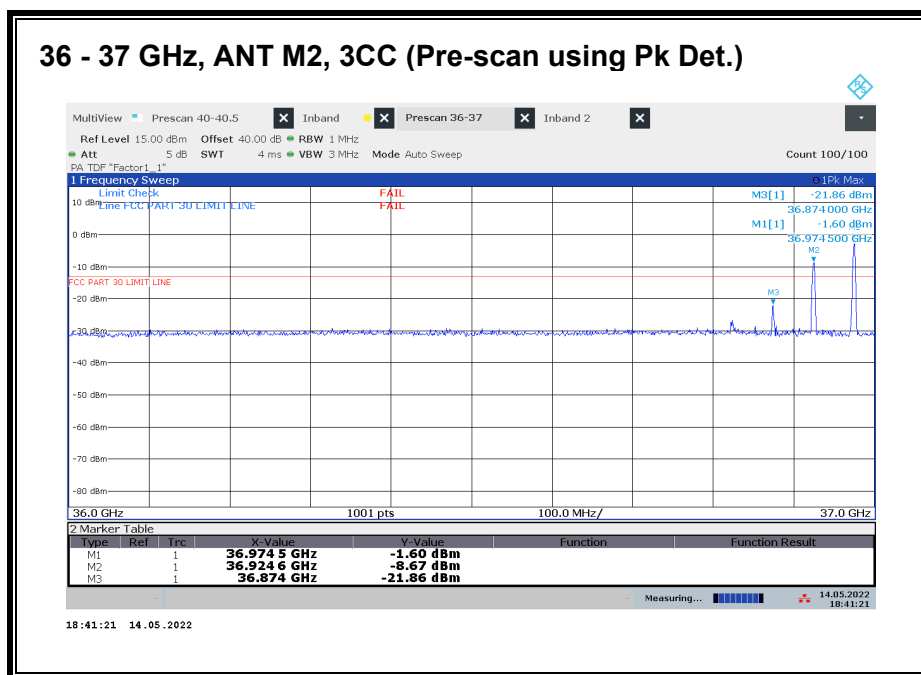
Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M3	36.949	3	--	-16.48	-13	-3.48



### 36 - 37 GHz n260, 3CC



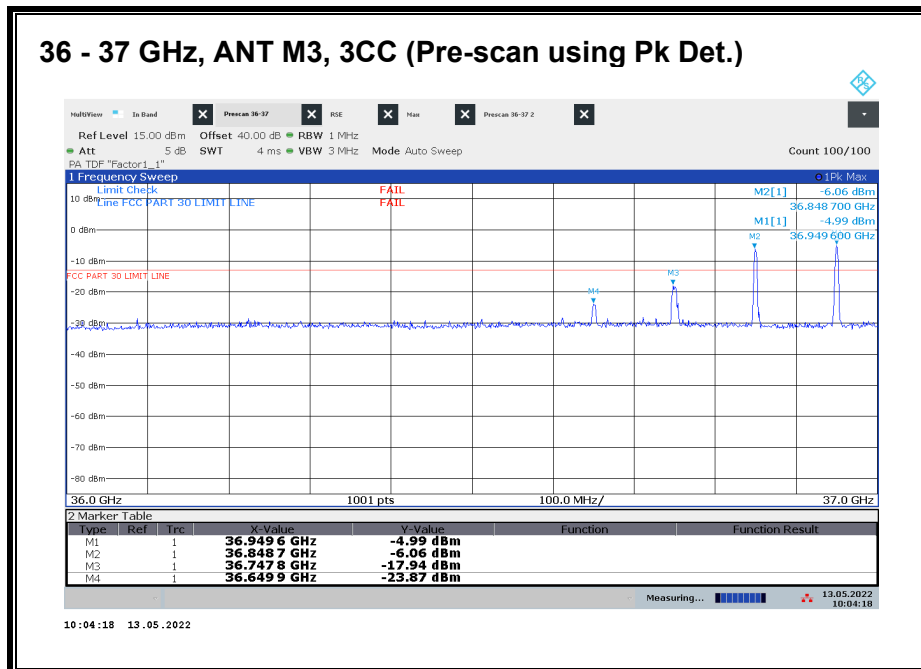
Worst case configuration:

SISO-DUAL\_QPSK\_(50 MHz + 50 MHz + 50 MHz)\_Low CH\_RB Offset 1/15 (1RB-M)

Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M2	36.974	3	--	-16.19	-13	-3.19



Worst case configuration:

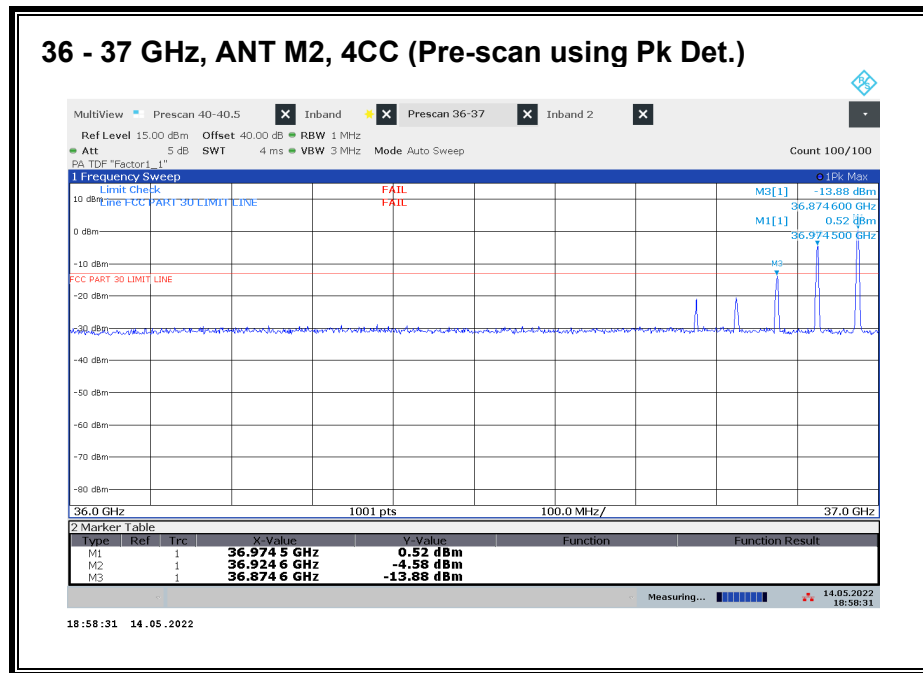
SISO-DUAL\_QPSK\_(100 MHz + 100 MHz + 100 MHz)\_Low CH\_RB Offset 1/32 (1RB-M)

Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M3	36.949	3	--	-18.95	-13	-5.95

### 36 - 37 GHz n260, 4CC



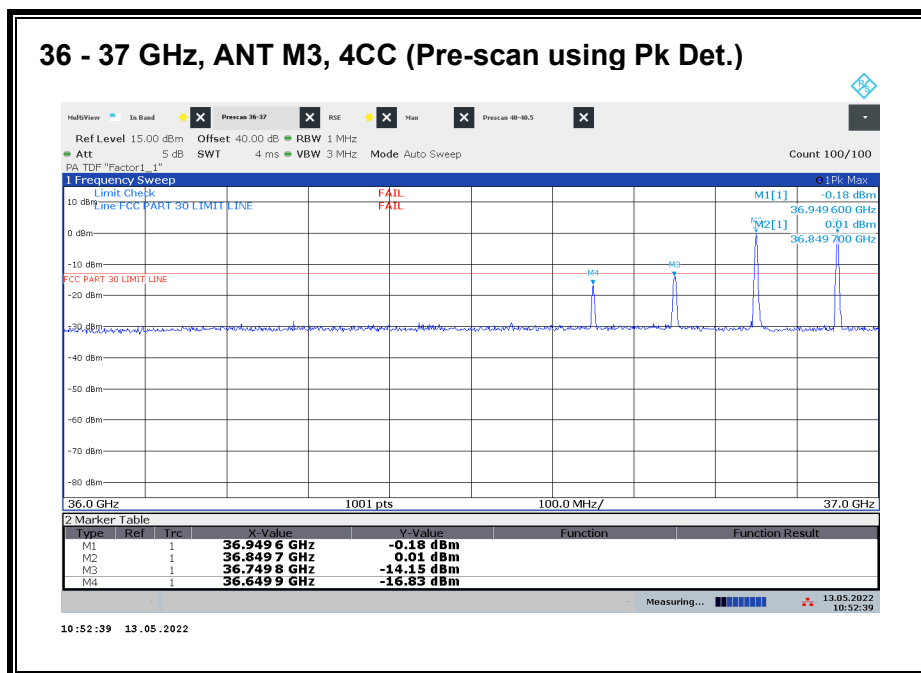
Worst case configuration:

SISO-DUAL\_QPSK\_(50 MHz + 50 MHz + 50 MHz + 50 MHz)\_Low CH\_RB Offset 1/15 (1RB-M)

Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M2	36.974	3	--	-15.65	-13	-2.65



Worst case configuration:

SISO-DUAL\_QPSK\_(100 MHz + 100 MHz + 100 MHz + 100 MHz)\_Low CH\_RB Offset 1/32  
(1RB-M)

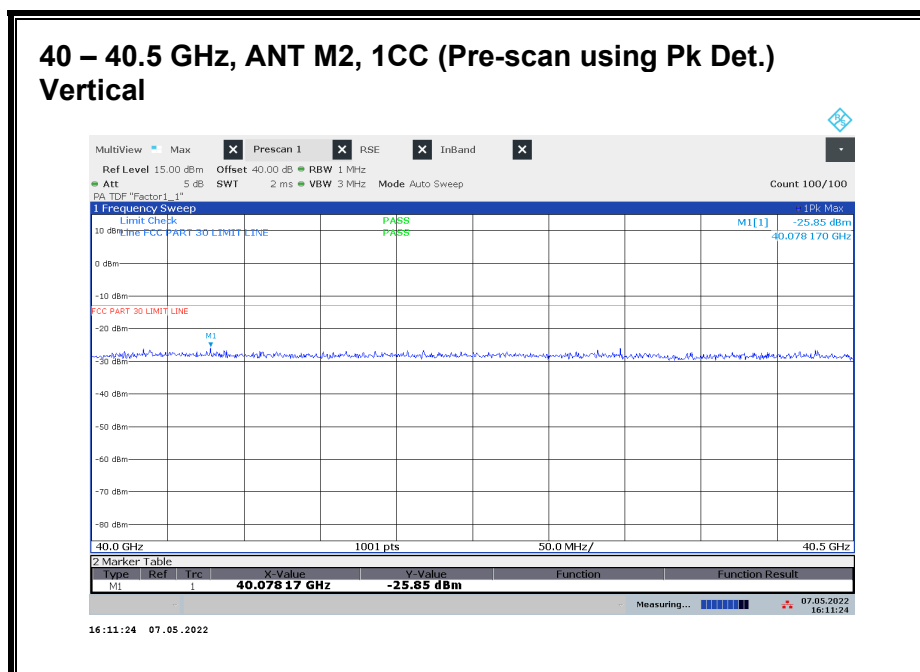
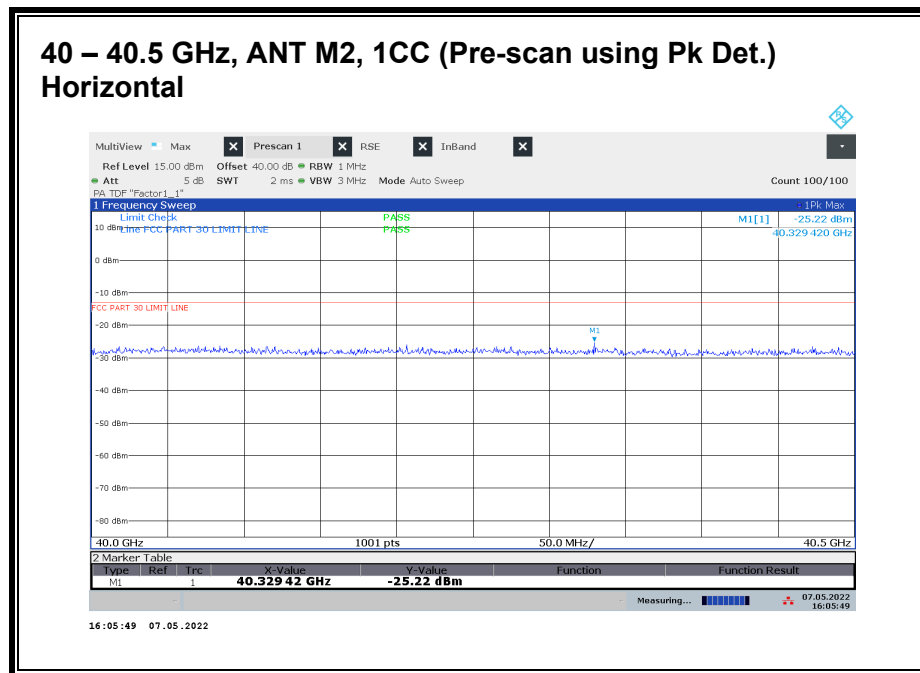
Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M3	36.949	3	--	-18.17	-13	-5.17

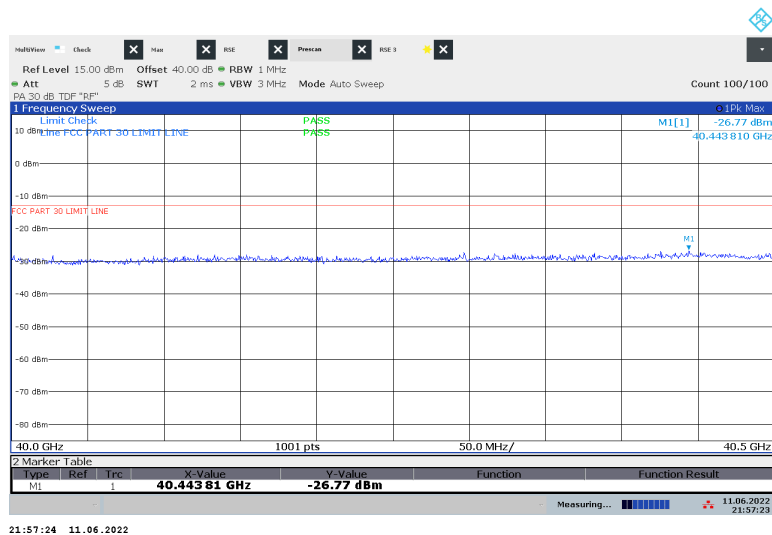
### 9.1.34. RSE n260 40 – 40.5 GHz

Note: 37 - 40 GHz covered by Fundamental and BE measurements.

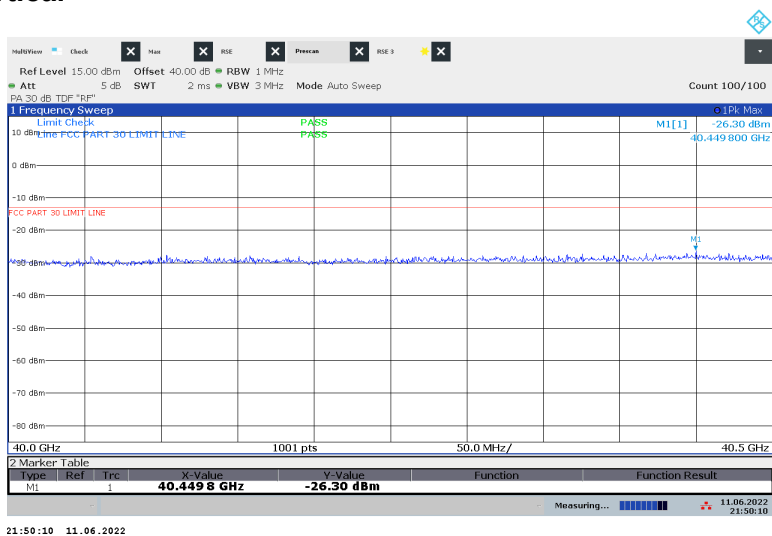


No emission detected using Peak Detection.

### 40 – 40.5 GHz, ANT M3, 1CC (Pre-scan using Pk Det.) Horizontal



### 40 – 40.5 GHz, ANT M3, 1CC (Pre-scan using Pk Det.) Vertical

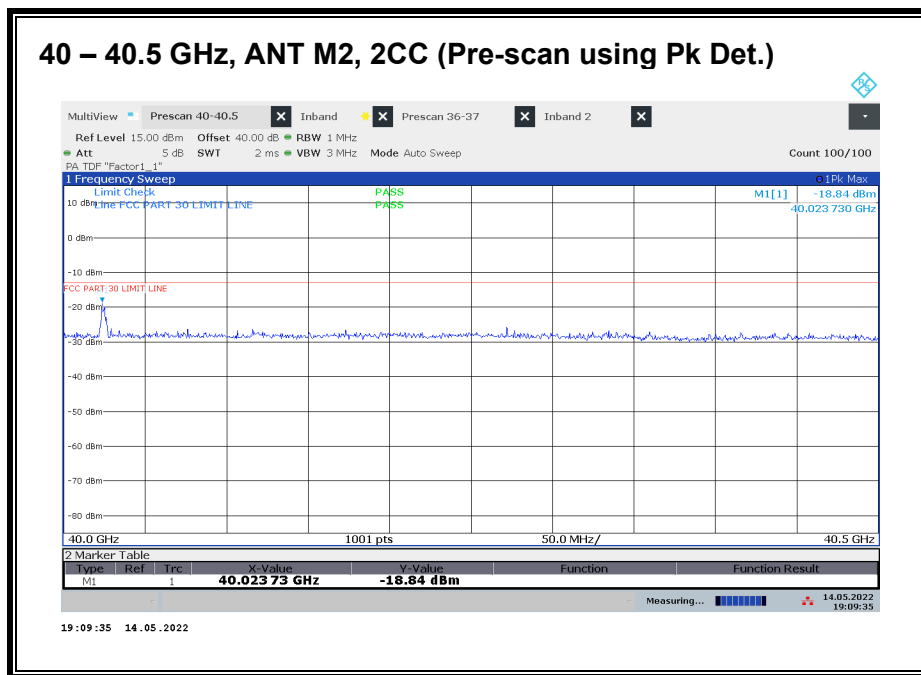


Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured

**40 – 40.5 GHz n260, 1CC**

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M3	40.450	3	H	-39.52	-13	-26.52
M3	40.450	3	V	-39.34	-13	-26.34

# **40 – 40.5 GHz n260, 2CC**



Worst case configuration:

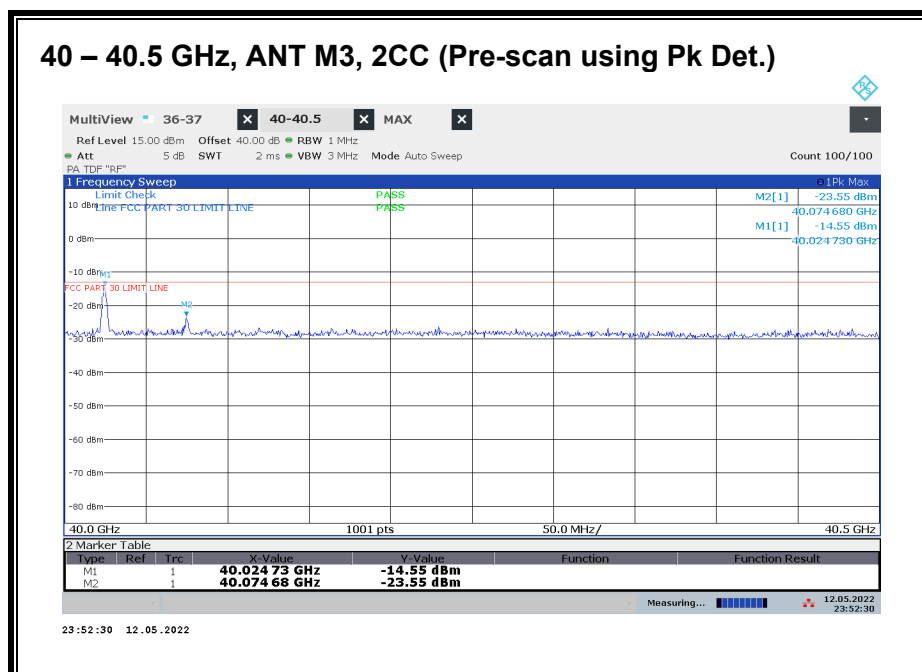
SISO-DUAL\_QPSK\_(100 MHz + 100 MHz)\_High CH\_RB Offset 1/32 (1RB-M)

Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M2	40.049	3	--	-21.82	-13	-8.82





Worst case configuration:

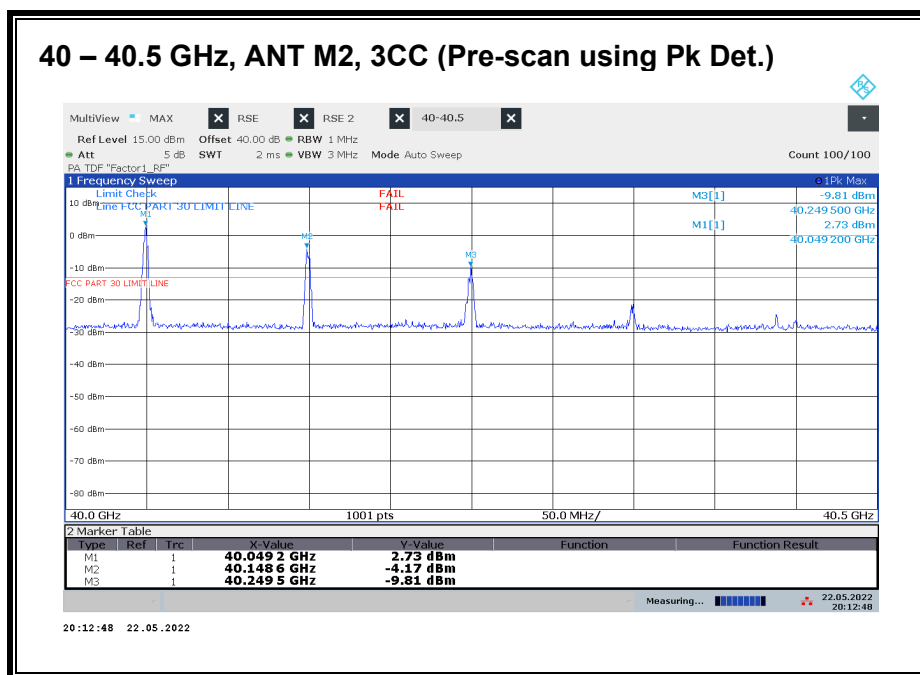
SISO-DUAL\_QPSK\_(50 MHz + 50 MHz)\_High CH\_RB Offset 1/15 (1RB-M)

Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas.	Rx Ant.	Corrected	TRP Limit	Margin
	(GHz)	Distance	Polarity	Avg EIRP	(dBm)	(dB)
		(m)	H/V	(dBm)		
M3	40.024	3	--	-26.46	-13	-13.46

# **40 – 40.5 GHz n260, 3CC**



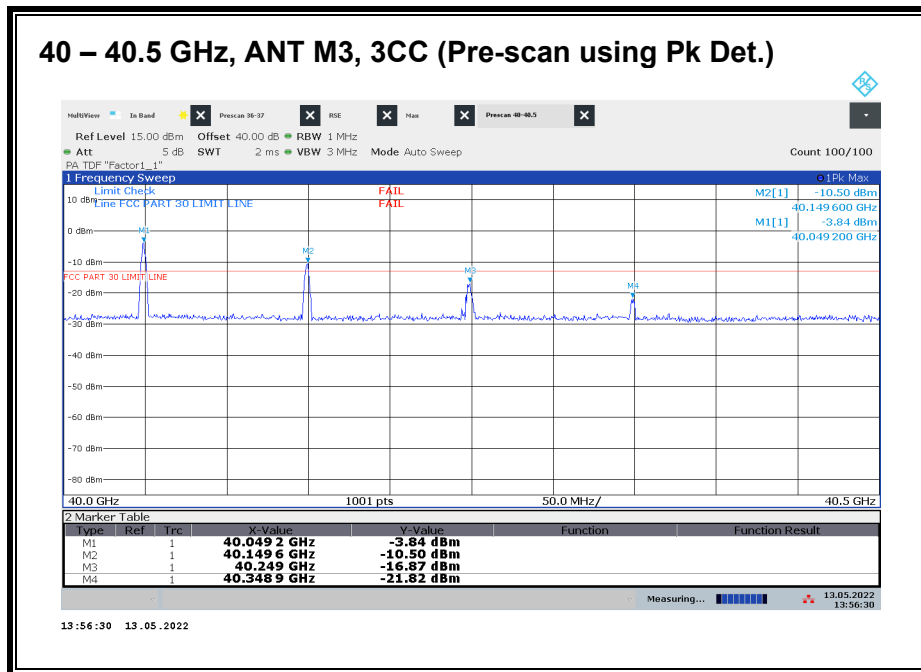
Worst case configuration:

SISO-DUAL\_QPSK\_(100 MHz + 100 MHz + 100 MHz)\_High CH\_RB Offset 1/32 (1RB-M)

Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M2	40.049	3	--	-19.51	-13	-6.51



Worst case configuration:

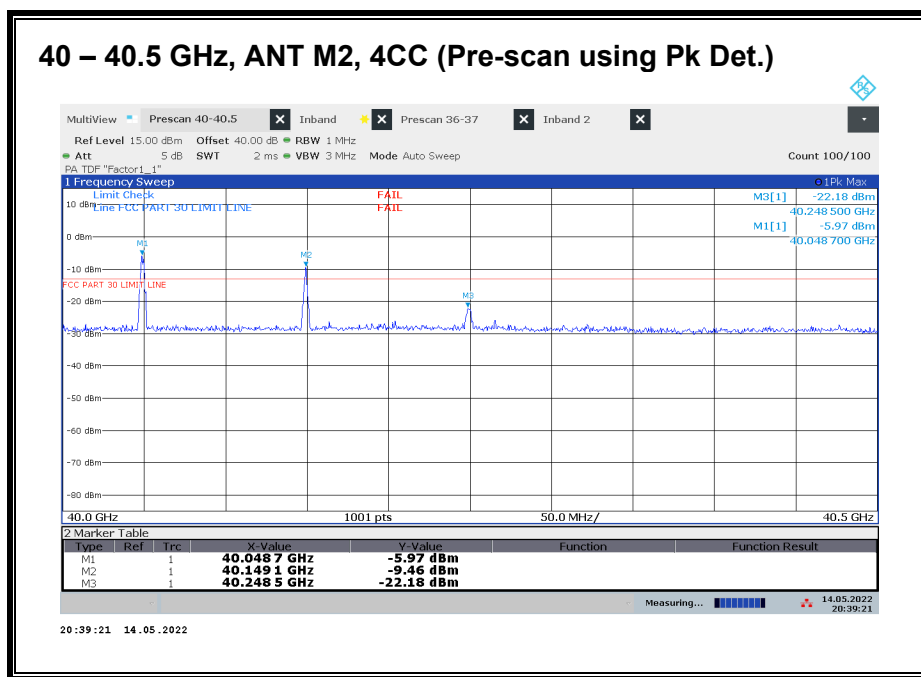
SISO-DUAL\_QPSK\_(100 MHz + 100 MHz + 100 MHz)\_High CH\_RB Offset 1/32 (1RB-M)

Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M3	40.049	3	--	-21.74	-13	-8.74

## 40 – 40.5 GHz n260, 4CC



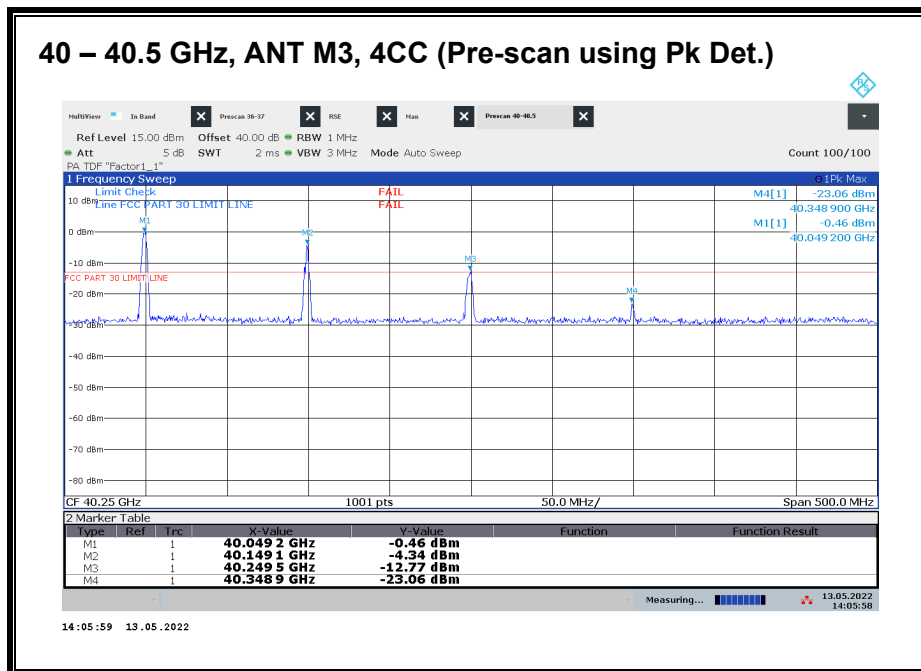
Worst case configuration:

SISO-DUAL\_QPSK\_(100 MHz + 100 MHz + 100 MHz + 100 MHz)\_High CH\_RB Offset 1/32 (1RB-M)

Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M2	40.049	3	--	-16.06	-13	-3.06



Worst case configuration:  
SISO-DUAL\_QPSK\_(100 MHz + 100 MHz + 100 MHz + 100 MHz)\_High CH\_RB Offset 1/32  
(1RB-M)

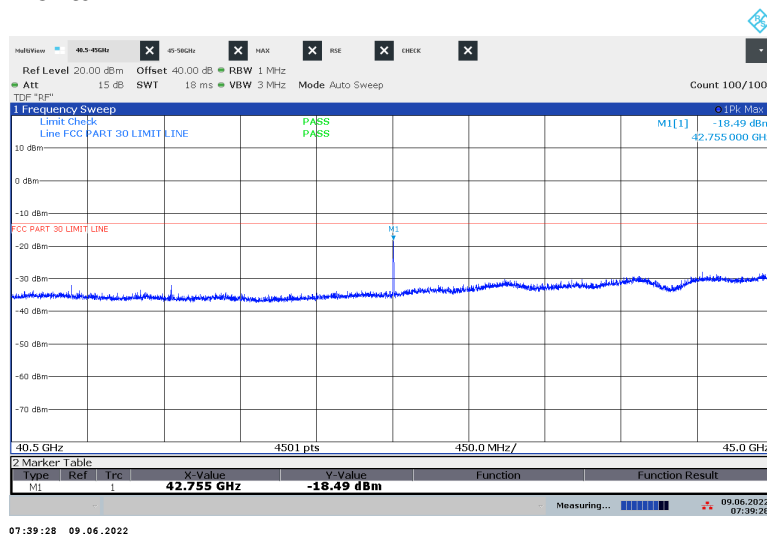
Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

All emissions were investigated and the highest emission was reported.

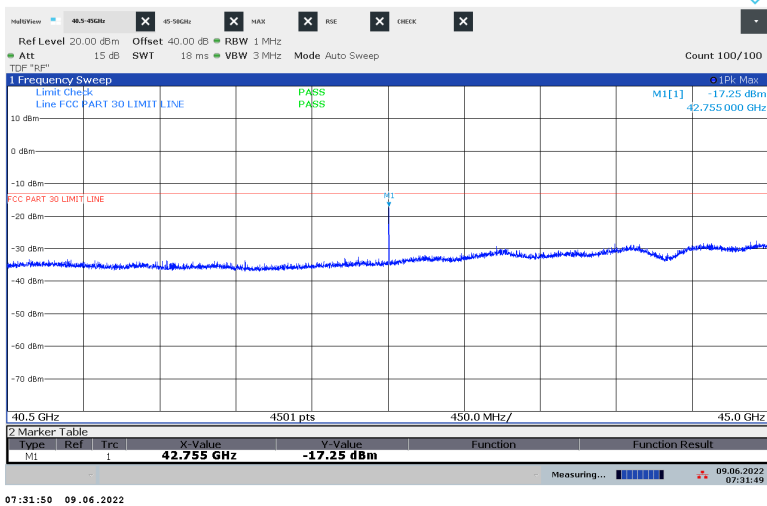
Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M3	40.049	3	--	-19.92	-13	-6.92

### 9.1.35. RSE n260 40.5 – 45 GHz

#### 40.5 – 45 GHz, ANT M2, 1CC (Pre-scan using Pk Det.) Horizontal

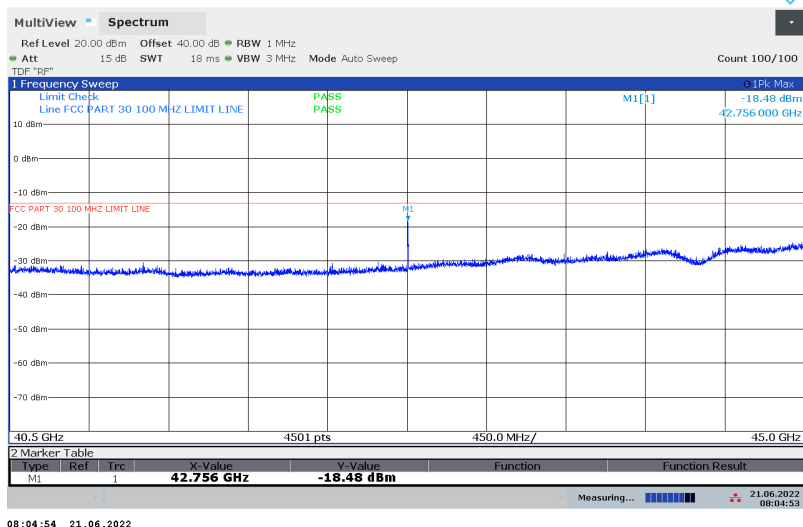


#### 40.5 – 45 GHz, ANT M2, 1CC (Pre-scan using Pk Det.) Vertical

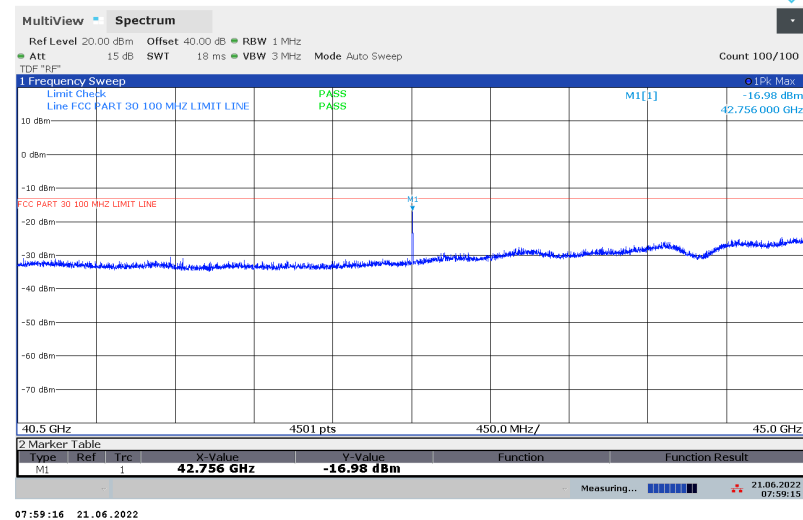


Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

### 40.5 – 45 GHz, ANT M3, 1CC (Pre-scan using Pk Det.) Horizontal



### 40.5 – 45 GHz, ANT M3, 1CC (Pre-scan using Pk Det.) Vertical



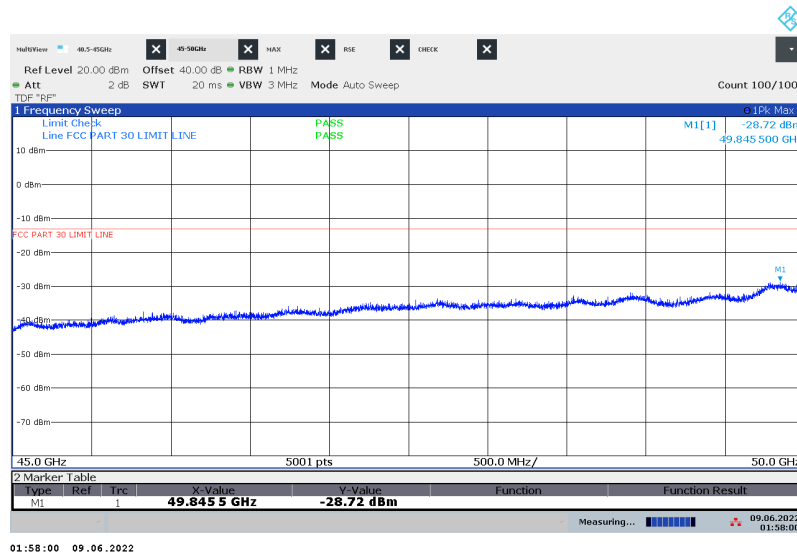
Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

**40.5 - 45 GHz n260, 1CC**

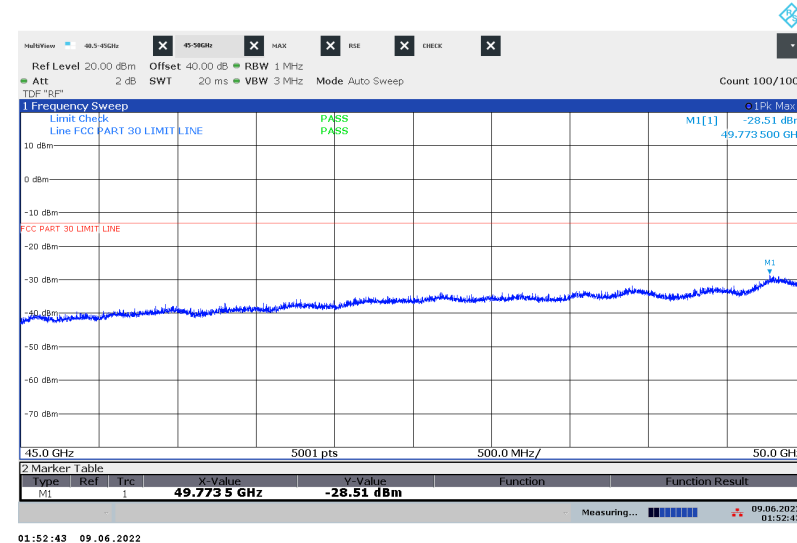
Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M2	42.755	3	H	-37.20	-13	-24.20
M2	42.755	3	V	-21.14	-13	-8.14
M3	42.755	3	H	-18.90	-13	-5.90
M3	42.755	3	V	-28.4	-13	-15.40



### 45 – 50 GHz, ANT M2, 1CC (Pre-scan using Pk Det.) Horizontal



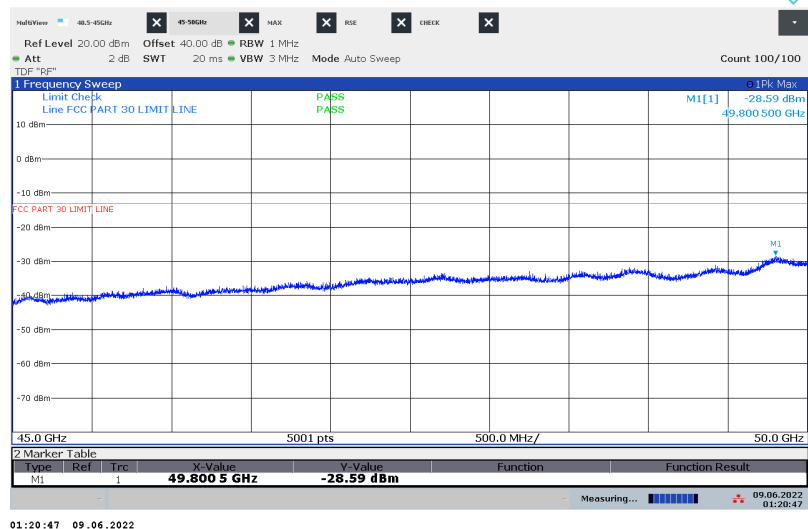
### 45 – 50 GHz, ANT M2, 1CC (Pre-scan using Pk Det.) Vertical



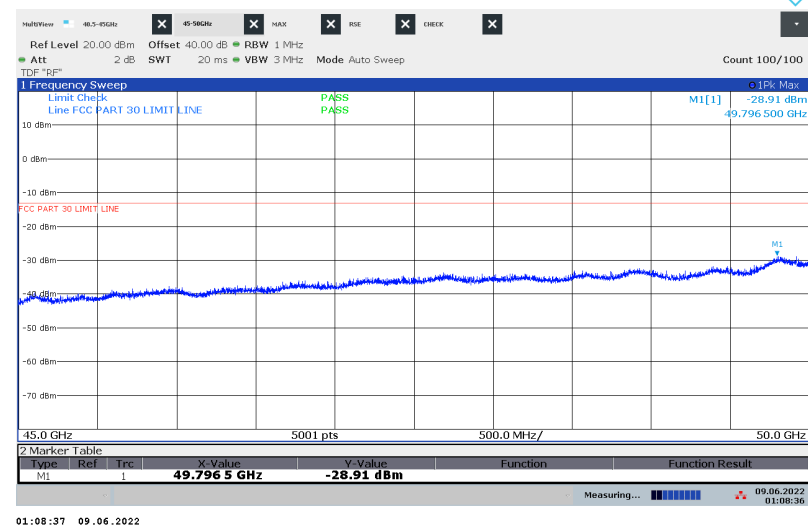
No emission detected using Peak Detection.

### 9.1.36. RSE n260 45 – 50 GHz

#### 45 – 50 GHz, ANT M3, 1CC (Pre-scan using Pk Det.) Horizontal



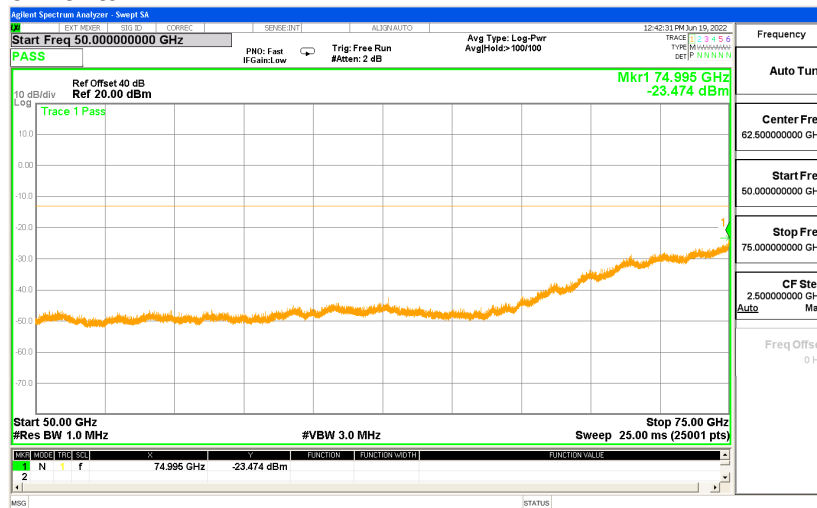
#### 45 – 50 GHz, ANT M3, 1CC (Pre-scan using Pk Det.) Vertical



No emission detected using Peak Detection.

### 9.1.37. RSE n260 50 - 75 GHz

#### 50 - 75 GHz, ANT M2 (Pre-scan using Pk Det.) Horizontal

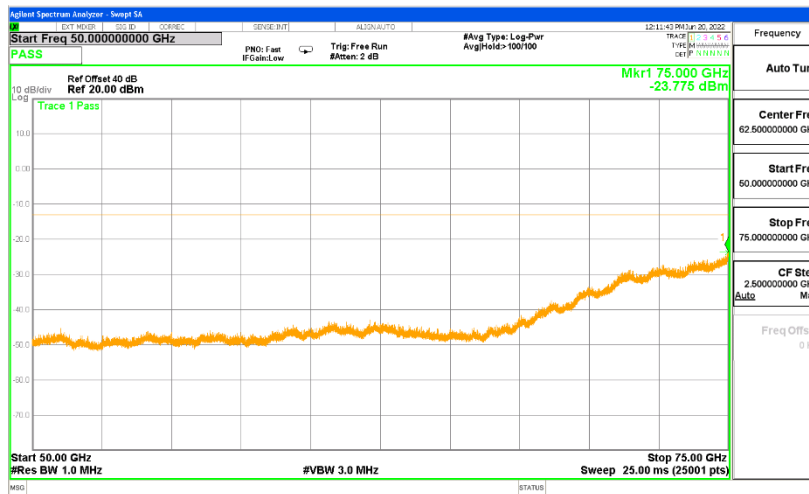


#### 50 - 75 GHz, ANT M2 (Pre-scan using Pk Det.) Vertical

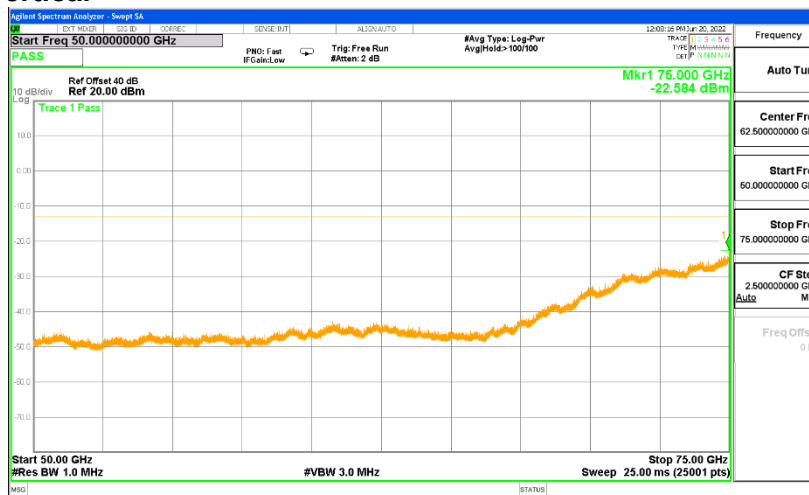


No emission detected using Peak Detection.

### 50 - 75 GHz, ANT M3 (Pre-scan using Pk Det.) Horizontal



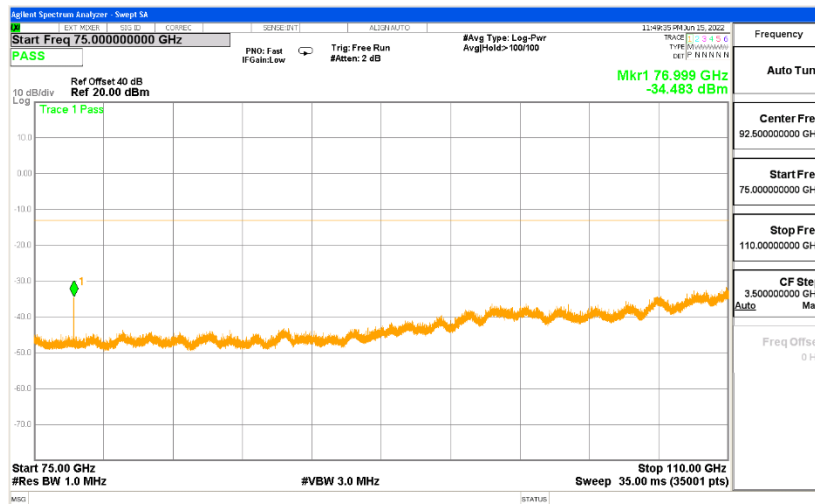
### 50 - 75 GHz, ANT M3 (Pre-scan using Pk Det.) Vertical



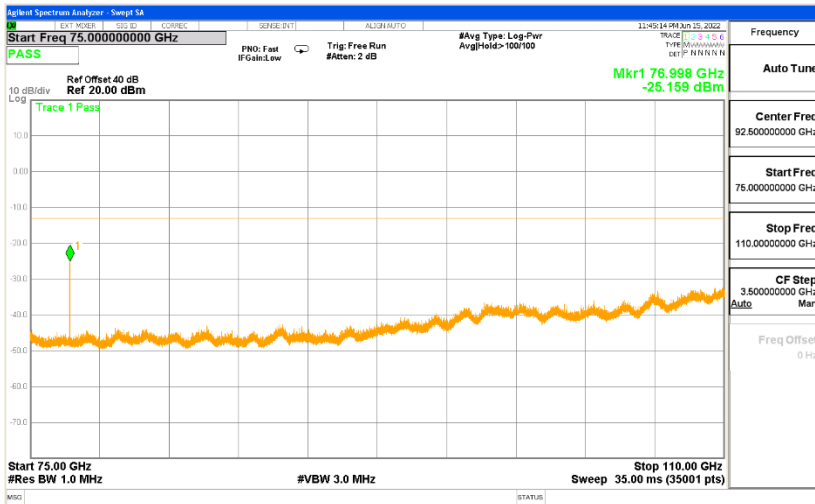
No emission detected using Peak Detection.

### 9.1.38. RSE n260 75 - 110 GHz

#### 75 - 110 GHz, ANT M2 (Pre-scan using Pk Det.) Horizontal

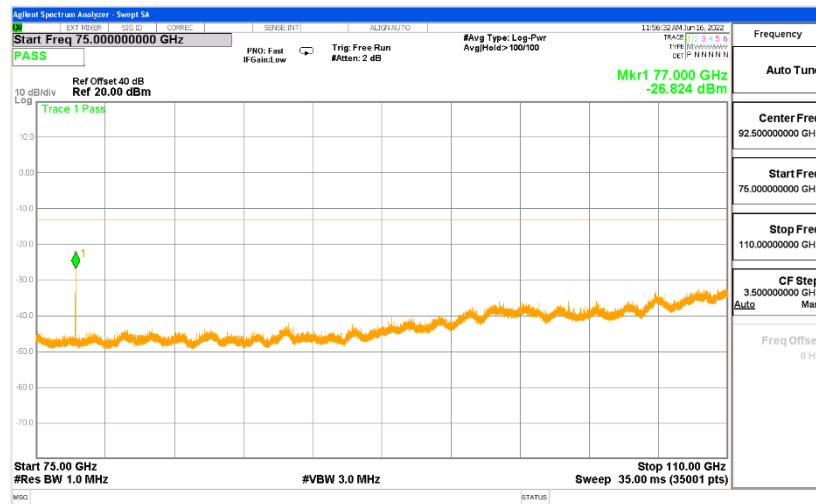


#### 75 - 110 GHz, ANT M2 (Pre-scan using Pk Det.) Vertical

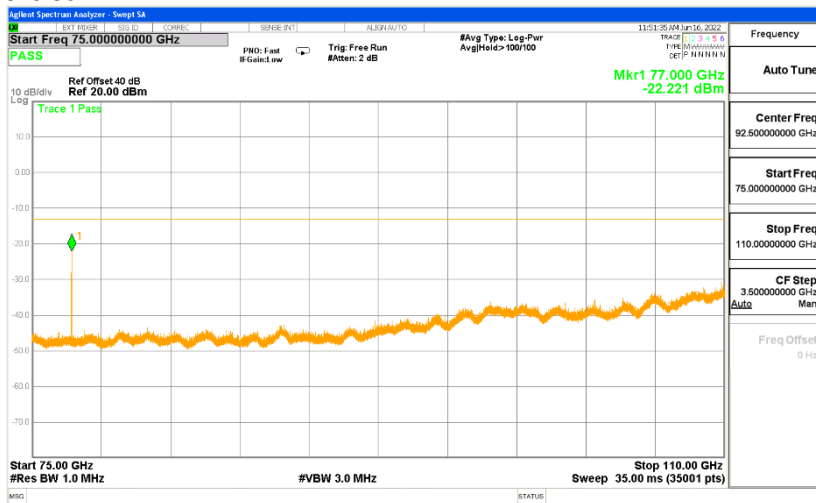


Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

### 75 - 110 GHz, ANT M3 (Pre-scan using Pk Det.) Horizontal



### 75 - 110 GHz, ANT M3 (Pre-scan using Pk Det.) Vertical



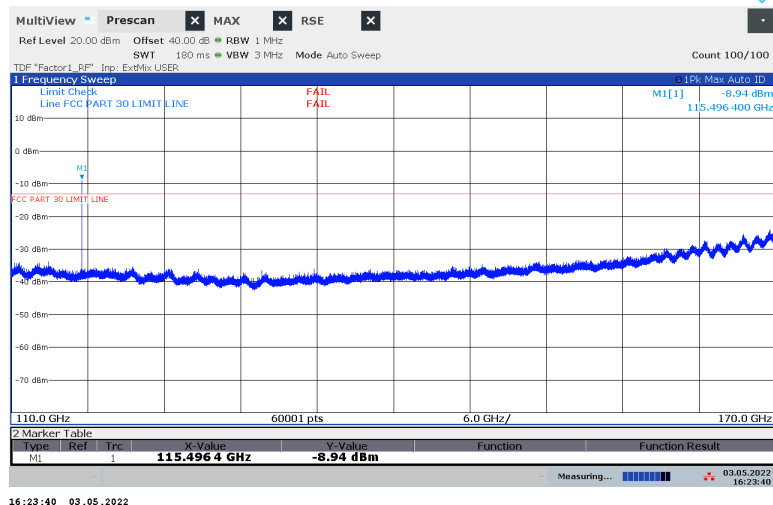
Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

**75 - 110 GHz n260, 1CC**

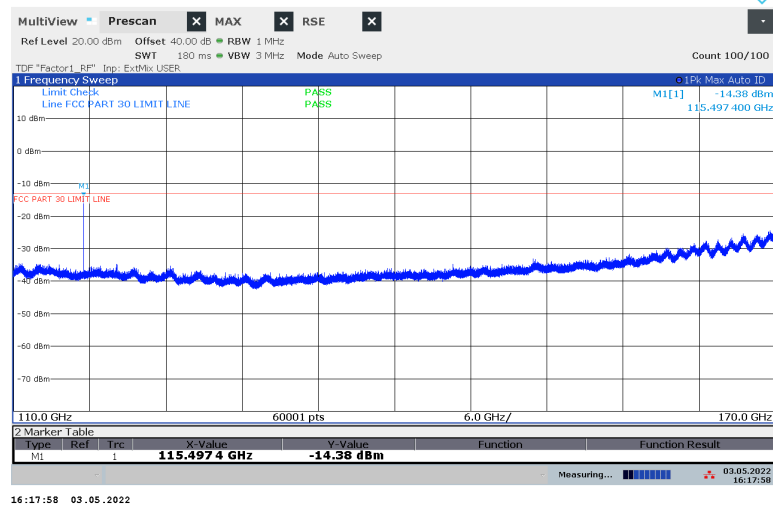
Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M2	76.999	1	H	-30.62	-13	-17.62
M2	76.999	1	V	-24.77	-13	-11.77
M3	76.999	1	H	-26.11	-13	-13.11
M3	76.999	1	V	-36.71	-13	-23.71

## 9.1.39. RSE n260 110 - 170 GHz

### 110 - 170 GHz, ANT M2 (Pre-scan using Pk Det.) Horizontal



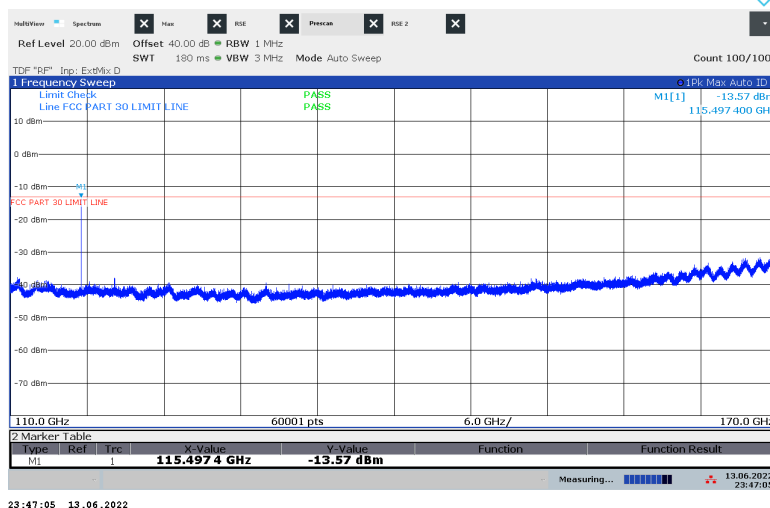
### 110 - 170 GHz, ANT M2 (Pre-scan using Pk Det.) Vertical



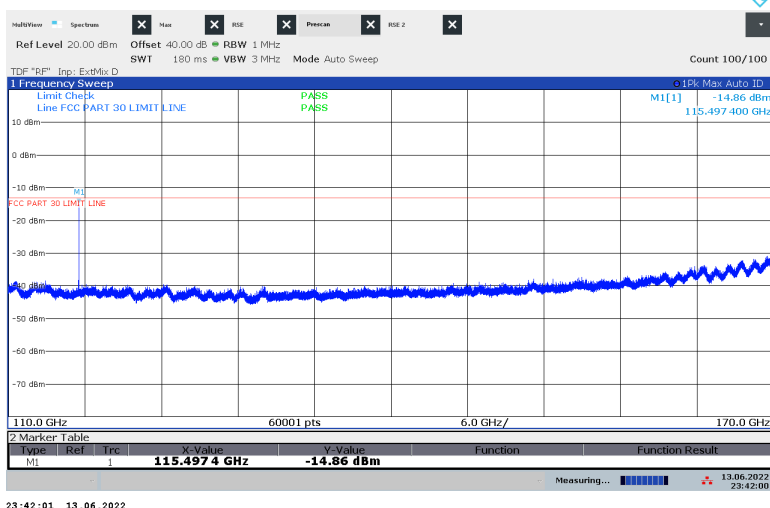
Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.



### 110 - 170 GHz, ANT M3 (Pre-scan using Pk Det.) Horizontal



### 110 - 170 GHz, ANT M3 (Pre-scan using Pk Det.) Vertical



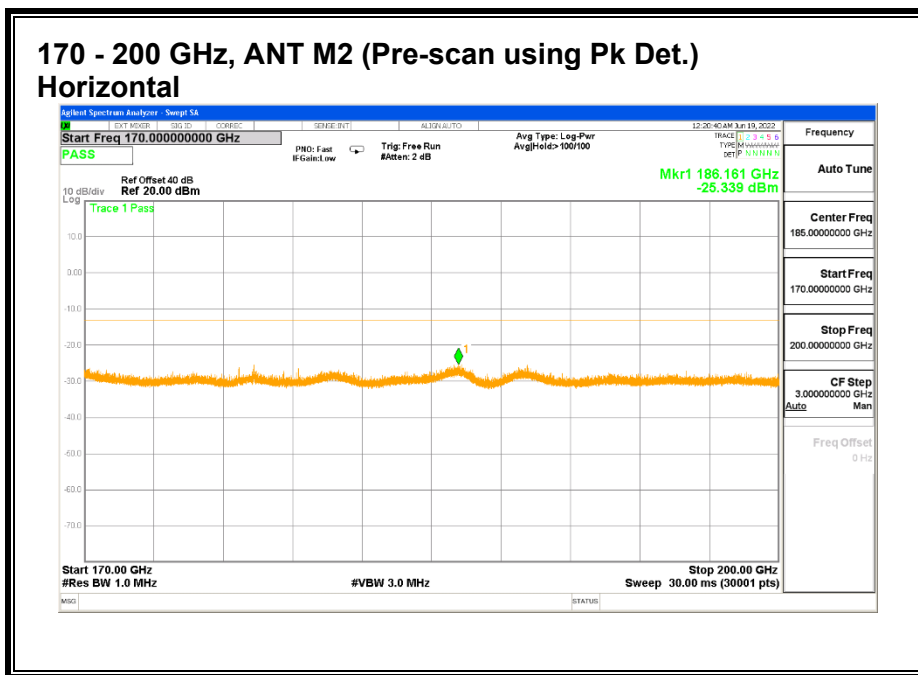
Emissions detected using Peak Detection at pre-scan. Avg EIRP was measured.

**110 - 170 GHz n260, 1CC**

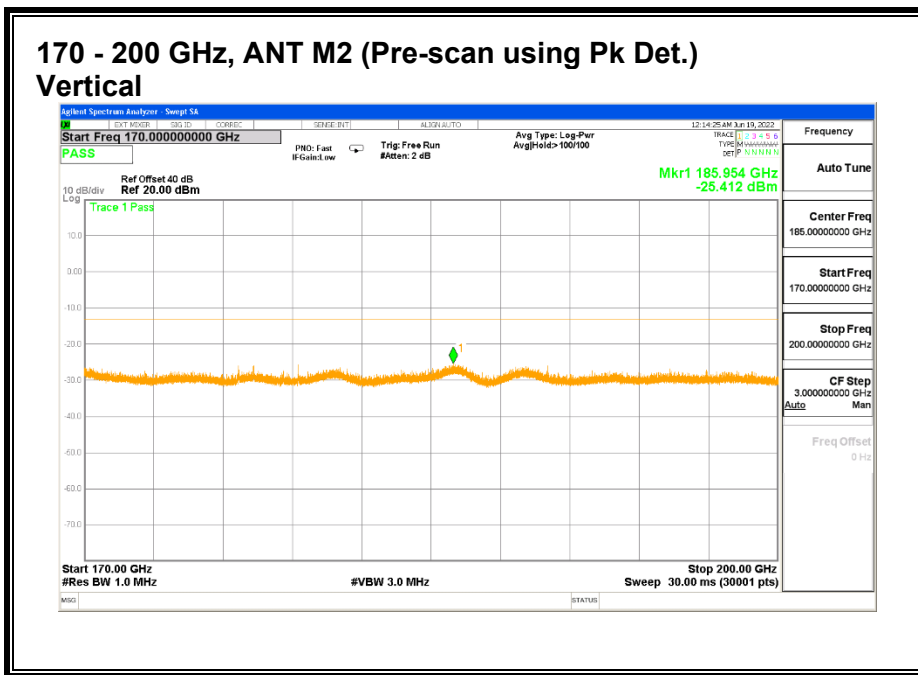
Antenna	Freq.	Meas. Distance	Rx Ant. Polarity	Corrected Avg EIRP	TRP Limit	Margin
	(GHz)	(m)	H/V	(dBm)	(dBm)	(dB)
M2	115.497	1	H	-15.05	-13	-2.05
M2	115.497	1	V	-37.69	-13	-24.69
M3	115.497	1	H	-20.64	-13	-7.64
M3	115.497	1	V	-25.55	-13	-12.55

## 9.1.40. RSE n260 170 - 200 GHz

### 170 - 200 GHz, ANT M2 (Pre-scan using Pk Det.) Horizontal

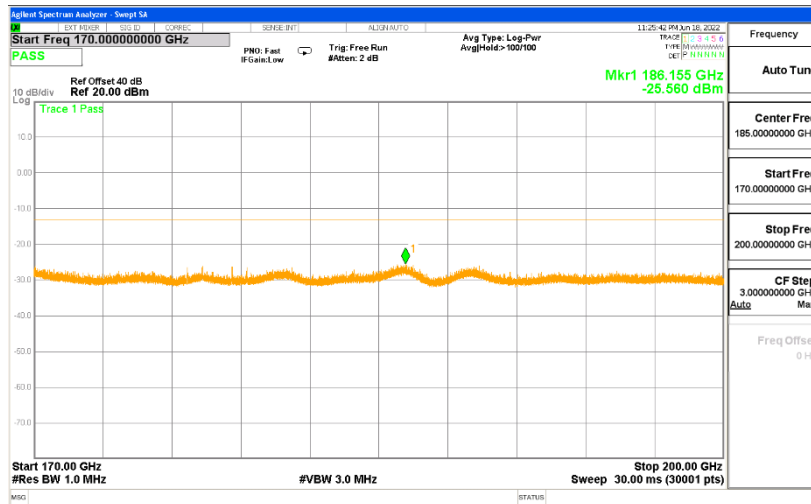


### 170 - 200 GHz, ANT M2 (Pre-scan using Pk Det.) Vertical

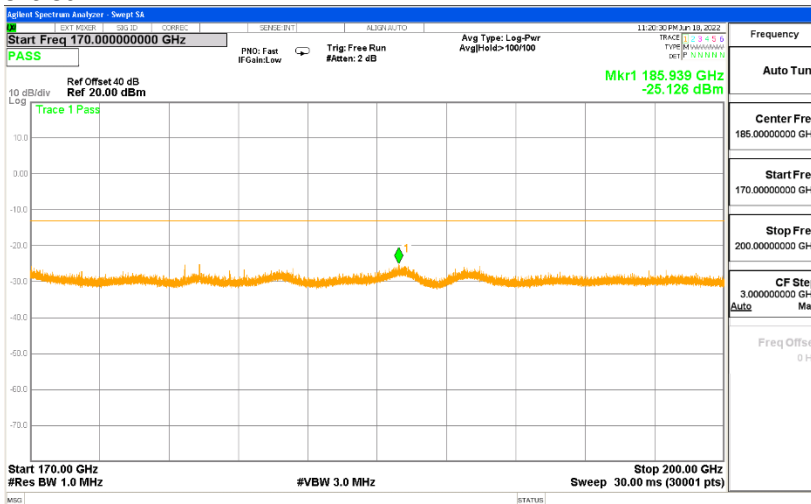


No emission detected using Peak Detection.

### 170 - 200 GHz, ANT M3 (Pre-scan using Pk Det.) Horizontal



### 170 - 200 GHz, ANT M3 (Pre-scan using Pk Det.) Vertical



No emission detected using Peak Detection.

## 10. FREQUENCY STABILITY

### RULE PART(S)

FCC: §2.1055

### LIMIT

For reporting purposes only

### TEST PROCEDURES

KDB 842590 D01 Upper Microwave Flexible Use Service v01 Section 4.5  
ANSI C63.26-2015 Section 5.6

#### **Test procedures for temperature variation:**

- a. Position the EUT in temperature/humidity chamber with power off.
  - b. Set chamber temperature to -30°C and stabilize the EUT for at least 30 minutes.
  - c. Record maximum change in frequency within one minute after powering the EUT.
  - d. Increase chamber temperature at 10°C intervals from -30°C to 50°C. Record maximum change in frequency at each temperature.
  - e. A period of at least 30 minutes is provided to allow stabilization of the equipment at each temperature level.
- Temp. = -30°C to +50°C

#### **Test procedures for voltage variation:**

- a. Position the EUT in temperature/humidity chamber with power off.
  - b. Set chamber temperature to 20°C.
  - c. Record maximum frequency change within one minute after powering the EUT.
  - d. The primary supply voltage is varied from 85% to 115% of the nominal value for hand-carried, battery-powered equipment. primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.
- Voltage = (85% - 115%)
  - Nominal: 3.8 VDC; Low: 3.32VDC; High: 4.37 VDC

The measurements were performed with the CW signal of center frequency of each frequency band. Testing of n258 SB1 and n261 bands on Ant M2 represent the performance of Chipset 1. Likewise, testing of n258 SB2 and n260 bands on Ant M3, represent the performance of Chipset 2.

### RESULTS

See the following pages.

Employee ID: 27780

Test Date: 6/29/2022 - 6/30/2022

Test Location: Temperature Chamber

### 10.1.1. FREQUENCY STABILITY n258 SB1

		Antenna M2 n258 SB1	
Input Voltage	Environment	Frequency	Delta
	Temperature (°C)	(GHz)	(kHz)
Normal	50	24.3550210	86.900
Normal	40	24.3549970	62.900
Normal	30	24.3549670	32.900
<b>Normal</b>	<b>20</b>	<b>24.3549341</b>	<b>Reference</b>
Normal	10	24.3549341	0.000
Normal	0	24.3549600	25.900
Normal	-10	24.3550450	110.900
Normal	-20	24.3551229	188.800
Normal	-30	24.3552128	278.700
115%	20	24.3549011	-33.000
85%	20	24.3549011	-33.000

### 10.1.2. FREQUENCY STABILITY n258 SB2

		Antenna M3 n258 SB2	
Input Voltage	Environment	Frequency	Delta
	Temperature (°C)	(GHz)	(kHz)
Normal	50	25.0048921	-53.950
Normal	40	25.0049011	-44.950
Normal	30	25.0049251	-20.950
<b>Normal</b>	<b>20</b>	<b>25.0049461</b>	<b>Reference</b>
Normal	10	25.0049640	17.990
Normal	0	25.0050000	53.950
Normal	-10	25.0050090	62.950
Normal	-20	25.0050330	86.950
Normal	-30	25.0050330	86.950
115%	20	25.0049521	6.000
85%	20	25.0049580	11.990

### 10.1.3. FREQUENCY STABILITY n261

		Antenna M2 n261	
Input Voltage	Environment	Frequency	Delta
	Temperature (°C)	(GHz)	(kHz)
Normal	50	27.9300180	38.930
Normal	40	27.9299551	-23.970
Normal	30	27.9299791	0.030
<b>Normal</b>	<b>20</b>	<b>27.9299791</b>	<b>Reference</b>
Normal	10	27.9299611	-17.970
Normal	0	27.9299970	17.930
Normal	-10	27.9300450	65.930
Normal	-20	27.9300540	74.930
Normal	-30	27.9300930	113.930
115%	20	27.9299701	-8.990
85%	20	27.9299641	-14.990

### 10.1.4. FREQUENCY STABILITY n260

		Antenna M3 n260	
Input Voltage	Environment	Frequency	Delta
	Temperature (°C)	(GHz)	(kHz)
Normal	50	38.5048681	-83.900
Normal	40	38.5048711	-80.900
Normal	30	38.5049341	-17.900
<b>Normal</b>	<b>20</b>	<b>38.5049520</b>	<b>Reference</b>
Normal	10	38.5049101	-41.900
Normal	0	38.5049161	-35.900
Normal	-10	38.5050030	51.000
Normal	-20	38.5050599	107.900
Normal	-30	38.5050420	90.000
115%	20	38.5049431	-8.900
85%	20	38.5049371	-14.900

The occupied bandwidths (Section 8.1) are smaller than the channel bandwidths by at least 3 MHz for all modes of operation, the signal is at least 1.5 MHz from either edge of the channel. As the channels are fully contained within the FCC-allocated bands, and the frequency stability is significantly less than 1.5 MHz, with maximum frequency shift of 278.7 kHz over the test conditions (Ant M2 n258 SB1 at -30°C). The signal is always contained within the allocated channel, therefore, always contained within the allocated band.

## **11. SETUP PHOTOS**

Please refer to 14040868-EP20V1 for setup photos.

**END OF REPORT**



## APPENDIX A

### 1. 50 - 80 GHz Keysight M1970V



### Certificate Of Calibration

**Certificate No:** M1970VMY5139083020211007

**Manufacturer:** Keysight Technologies  
**Model No:** M1970V  
**Options Installed With Specifications:** 002

**Description:** Waveguide Harmonic Mixer  
**Serial No:** MY51390830

**Customer Asset:**  
**Customer:**  
UL Verification Services Inc  
47173 Benicia St  
FREMONT CA 94538-7366  
UNITED STATES

**Location of Calibration:**  
Plot 44, Bayan Lepas Industrial Park IV  
11900 Penang  
Malaysia

**Date of Calibration:** 07-OCT-2021  
**Temperature:** (23 ± 3)°C  
**Procedure:** MTA-T0264

**Received Date:** 07-OCT-2021  
**Humidity:** (20 to 70) % RH

This certifies that the equipment has been calibrated using applicable Keysight Technologies procedures in compliance with a quality management system registered to ISO 9001:2015.

**As Received Conditions:** Initial testing found the equipment to be IN SPECIFICATION at the points tested.

**Action Taken:** No corrective actions were necessary.

**As Shipped Conditions:** At the completion of calibration, measured values were IN SPECIFICATION at the parameters tested.

**Remarks or special requirements:**

**Notes:**

1. This calibration report may refer to equipment manufactured by HP, Agilent and Keysight as being manufactured by Keysight Technologies, Inc.
2. The test limits stated in the calibration report correspond to the published specifications of the equipment, at the points tested.
3. The documented test results relate to the equipment tested only.
4. This calibration report shall not be reproduced, except in full.

**Traceability Information:** Measurements are traceable to the International System of Units (SI) via national metrology institutes ([www.keysight.com/find/NMI](http://www.keysight.com/find/NMI)) that are signatories to the CIPM Mutual Recognition Arrangement.

Keysight Provider #71456					
	DD	MM	YY	BY	
CAL	07	10	21	NF	
DUE					

## 2. 75 - 110 GHz Keysight M1970W



### Certificate Of Calibration

**Certificate No:** M1970WMY5143078420211008

**Manufacturer:** Keysight Technologies  
**Model No:** M1970W  
**Options Installed With Specifications:** N/A

**Description:** Waveguide Harmonic Mixer  
**Serial No:** MY51430784

**Customer Asset:**  
**Customer:**  
UL Verification Services Inc  
47173 Benicia St  
FREMONT CA 94538-7366  
UNITED STATES

**Location of Calibration:**  
Plot 44, Bayan Lepas Industrial Park IV  
11900 Penang  
Malaysia

**Date of Calibration:** 08-OCT-2021  
**Temperature:** (23 ± 3)°C  
**Procedure:** MTA-T0264

**Received Date:** 08-OCT-2021  
**Humidity:** (20 to 70) % RH

This certifies that the equipment has been calibrated using applicable Keysight Technologies procedures in compliance with a quality management system registered to ISO 9001:2015.

**As Received Conditions:** Initial testing found the equipment to be IN SPECIFICATION at the points tested.

**Action Taken:** No corrective actions were necessary.

**As Shipped Conditions:** At the completion of calibration, measured values were IN SPECIFICATION at the parameters tested.

**Remarks or special requirements:**

**Notes:**

1. This calibration report may refer to equipment manufactured by HP, Agilent and Keysight as being manufactured by Keysight Technologies, Inc.
2. The test limits stated in the calibration report correspond to the published specifications of the equipment, at the points tested.
3. The documented test results relate to the equipment tested only.
4. This calibration report shall not be reproduced, except in full.

**Traceability Information:** Measurements are traceable to the International System of Units (SI) via national metrology institutes ([www.keysight.com/find/NMI](http://www.keysight.com/find/NMI)) that are signatories to the CIPM Mutual Recognition Arrangement.

Keysight Provider #71456			
CAL	08	10	21
DUE			

### 3. 110 - 170 GHz VDI WR6.5SAX

\*WR6.5SAX, S/N: SAX 228



**Virginia Diodes, Inc**  
979 2nd St. SE  
Suite 309  
Charlottesville, VA 22902  
Phone: 434-297-3257  
Fax: 434-297-3258

#### **Certificate of Conformance**

To: UL  
47173 Benicia Street  
Fremont, CA 94538  
United States

From: Virginia Diodes, Inc  
979 2nd St. SE  
Suite 309  
Charlottesville, VA 22902

Packing List No: 212797  
Shipping Date: 08/10/21

Today's Date: 08/10/21  
PO Number: 7862019815

Quantity	Unit	Description	Order-Job Number
1	EA	RETEST-WR10SAX SAX 649	21163-01
1	EA	RETEST-WR6.5SAX SAX 228	21163-02
1	EA	RETEST-WR4.3SAX SAX 229	21163-03

The VDI product(s) in this shipment meet(s) the guidelines for performance specifications established in accordance with the corresponding Purchase Order. Data presented in the User Guide, where applicable, has been obtained in accordance with VDI's Quality Management System. All instruments, used to obtain data, which require calibration have been calibrated with equipment traceable to the National Institute of Standards and Technology (NIST) and through NIST to the International System of Units (SI).

A handwritten signature in black ink, appearing to be 'J. Smith', is written over a horizontal line.

Authorized Signature  
Virginia Diodes, Inc

#### 4. 170 - 260 GHz VDI WR4.3SAX

\*WR4.3SAX, S/N: SAX 229



**Virginia Diodes, Inc**  
979 2nd St. SE  
Suite 309  
Charlottesville, VA 22902  
Phone: 434-297-3257  
Fax: 434-297-3258

#### **Certificate of Conformance**

To: UL  
47173 Benicia Street  
Fremont, CA 94538  
United States

From: Virginia Diodes, Inc  
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Suite 309  
Charlottesville, VA 22902

Packing List No: 212797  
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Today's Date: 08/10/21  
PO Number: 7862019815

Quantity			Order-Job
Shipped	Unit	Description	Number
1	EA	RETEST-WR10SAX SAX 649	21163-01
1	EA	RETEST-WR6.5SAX SAX 228	21163-02
1	EA	RETEST-WR4.3SAX SAX 229	21163-03

The VDI product(s) in this shipment meet(s) the guidelines for performance specifications established in accordance with the corresponding Purchase Order. Data presented in the User Guide, where applicable, has been obtained in accordance with VDI's Quality Management System. All instruments, used to obtain data, which require calibration have been calibrated with equipment traceable to the National Institute of Standards and Technology (NIST) and through NIST to the International System of Units (SI).

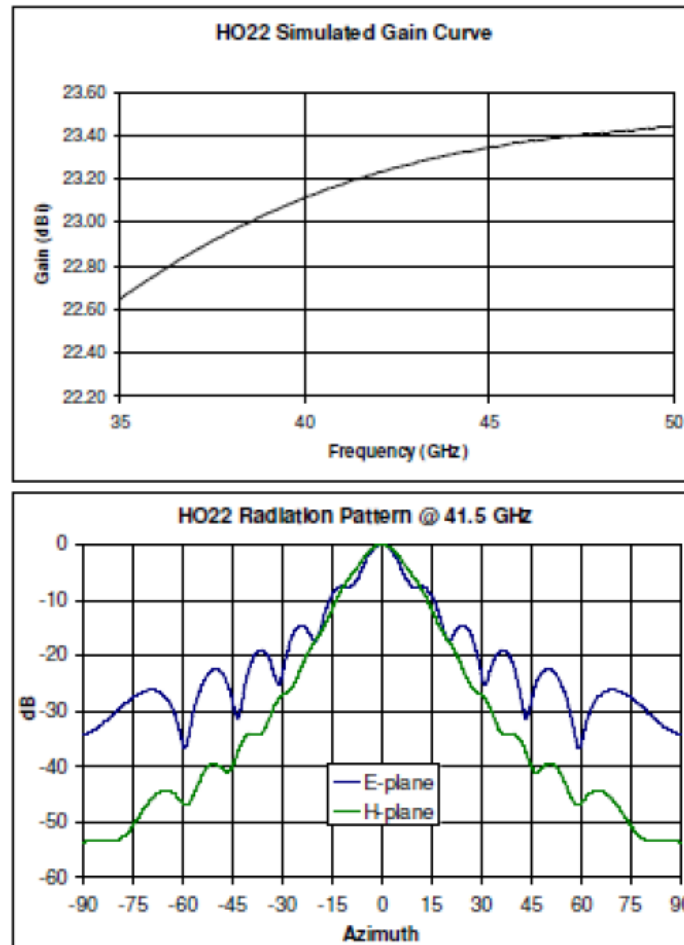
A handwritten signature in black ink, appearing to be 'J. Smith', is written over a horizontal line.

Authorized Signature  
Virginia Diodes, Inc

## 5. 35 - 50 GHz CMI HO22R HORN ANTENNA



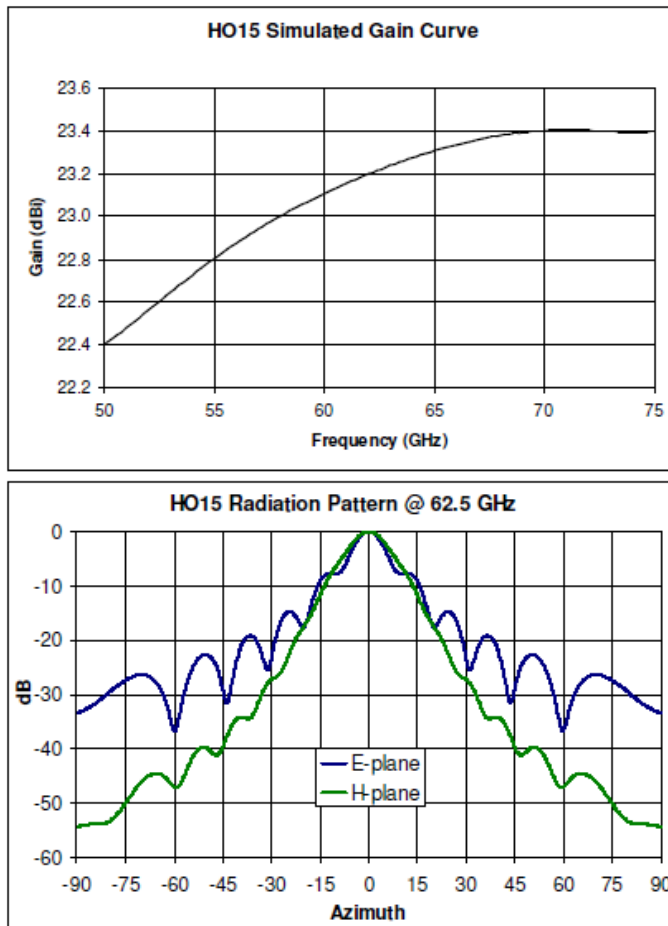
24 Boston Court  
Longmont, CO 80501  
303 651-0707 (P)  
303 651-0706 (F)  
www.custommicrowave.com



## 6. 50 - 75 GHz CMI HO15R HORN ANTENNA



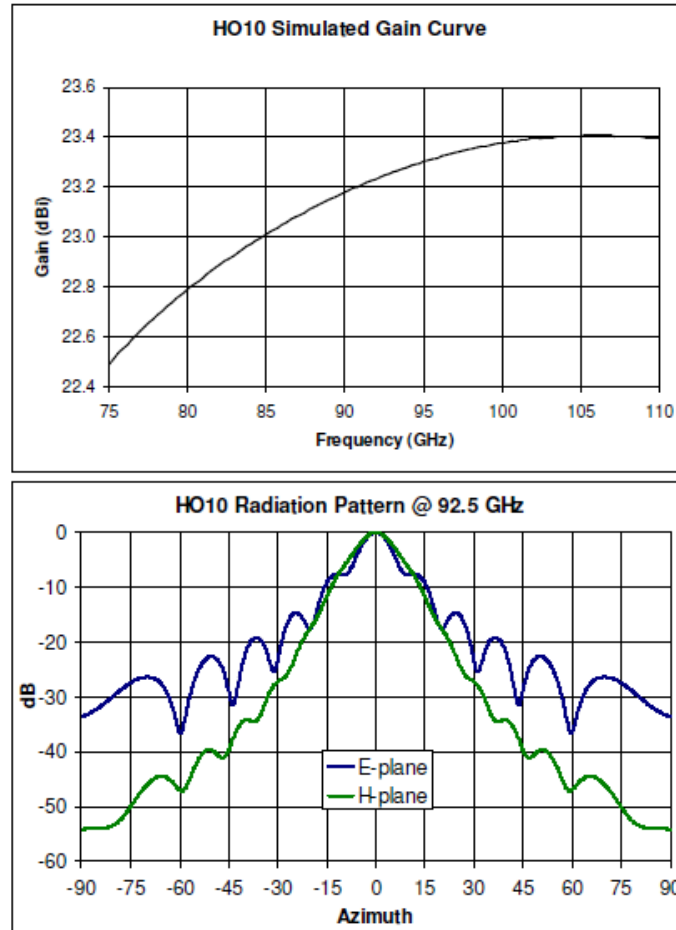
24 Boston Court  
Longmont, CO 80501  
303 651-0707(P)  
303 651-0706(F)  
www.custommicrowave.com



## 7. 75 - 110 GHz CMI HO10R HORN ANTENNA



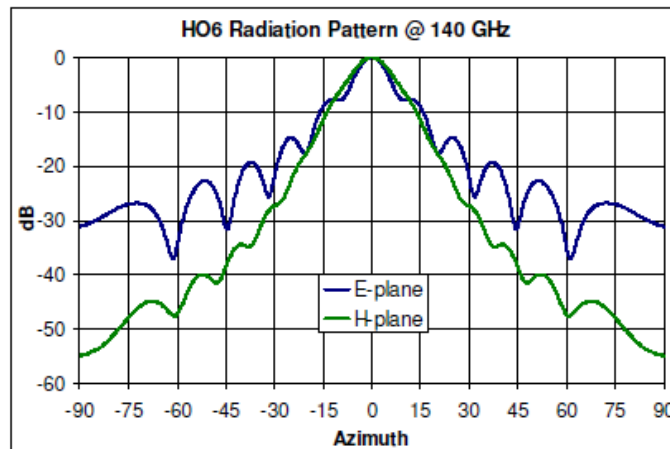
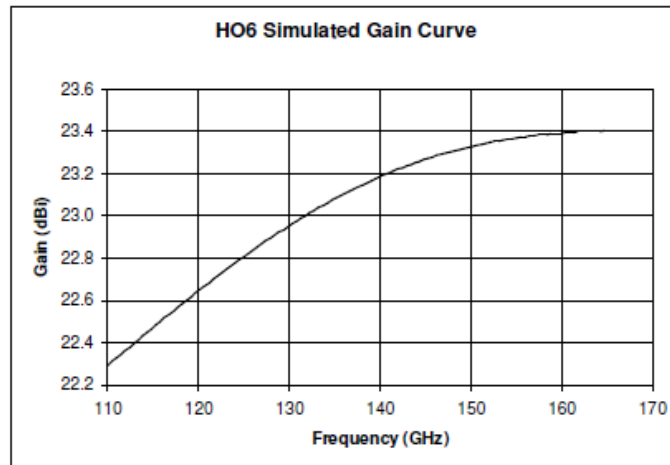
24 Boston Court  
Longmont, CO 80501  
303 651-0707(P)  
303 651-0706(F)  
www.custommicrowave.com



## 8. 110 - 170 GHz CMI HO6R HORN ANTENNA



24 Boston Court  
Longmont, CO 80501  
303 651-0707(P)  
303 651-0706(F)  
www.custommicrowave.com





## 9. 170 - 260 GHz CMI HO4R HORN ANTENNA



24 Boston Court  
Longmont, CO 80501  
303 651-0707(P)  
303 651-0706(F)  
www.custommicrowave.com

