FCC Test Report (Part 30)

Report No.:	RFBCKS-WTW-P21010762-2
FCC ID:	UXX-S5A107A
Test Model:	S5A107A
Received Date:	Jan. 27, 2021
Test Date:	Mar. 05 ~ Mar. 16, 2021
Issued Date:	Mar. 17, 2021
Applicant:	Cradlepoint, Inc.
Address:	1111 West Jefferson Street ,Boise ,Idaho,United States 83702
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
Test Location:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, Taiwan
FCC Registration / Designation Number:	788550 / TW0003

Testing Laboratory
2021

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Release Control Record

Issue No.	Description	Date Issued
RFBCKS-WTW-P21010762-2	Original release.	Mar. 17, 2021

1 Certificate of Conformity

Product:	5G Adapter
Brand:	Cradlepoint, Inc.
Test Model:	S5A107A
Sample Status:	Engineering sample
Applicant:	Cradlepoint, Inc.
Test Date:	Mar. 05 ~ Mar. 16, 2021
Standards:	47 CFR FCC Part 30

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Pettie Chen , **Date:** Mar. 17, 2021

Pettie Chen / Senior Specialist

Approved by : Bruce Chen , **Date:** Mar. 17, 2021

Bruce Chen / Senior Project Engineer

2 Summary of Test Results

47 CFR FCC Part 30				
FCC Clause	Test Item	Test Result	Test Condition	Remarks
2.1047	Modulation characteristics	Pass	-	Meet the requirement
2.1049	Emission Bandwidth	Pass	Radiated	Meet the requirement of limit.
30.202	EIRP	Pass		Meet the requirement of limit.
2.1051 30.203	Out-of-Band Spurious Emission	Pass		Meet the requirement of limit. Minimum passing margin is -0.23dB at 27525MHz.
2.1053 30.203	Out-of-Band Emission at the Band Edge	Pass		Meet the requirement of limit.
2.1055	Frequency Stability	Pass		Meet the requirement of limit.

Note: Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Radiated Emissions	9kHz ~ 30MHz	3.04 dB
	30MHz ~ 200MHz	3.59 dB
	200MHz ~1000MHz	3.60 dB
	1GHz ~ 18GHz	2.29 dB
	18GHz ~ 40GHz	2.29 dB

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT

Product	5G Adapter
Brand	Cradlepoint, Inc.
Test Model	S5A107A
Status of EUT	Engineering sample
Power Supply Rating	56 Vdc from POE adapter
Modulation Type	BPSK, QPSK, 16QAM, 64QAM
Operating Frequency	n260: 37GHz ~ 40GHz n261: 27.5GHz ~ 28.35GHz
Supported Channel Bandwidth	50MHz, 100MHz
Supported Carrier Component	1CC
Max. E.I.R.P. Power (RMS)	n260: 47.83dBm n261: 47.43dBm
Antenna Connector	NA
Accessory Device	Refer to Note as below
Data Cable Supplied	Refer to Note as below
Antenna Information	It consists of 4 milimeter- wave antenna modules which is dual polarized (V & H). The antenna modules, each utilize 16 patch antennas to receive RF signal in the millimeter-wave band.
Array Gain	n260: 21.55dBi n261: 19.44dBi

Note:

1. Simultaneously transmission condition.

Condition	Technology	
1	WLAN (2.4GHz)	WWAN (LTE+GPS)
2	WLAN (2.4GHz)	FR2
Note: The emission of the simultaneous operation has been evaluated and no non-compliance was found.		

2. The EUT must be supplied from POE adapter as following table:

Brand	Model No.	Spec.
PHIHONG	POE90U-1BT-2	Input: 100-240Vac, 2.5A, 50/60Hz Output: 56V, 0.8A

3. The EUT contains 1 radio module for millimeter wave.

Millimeter wave radio module	
Radio Module	Status
Module 0 (Middle Side)	Active

4. The worst beam ID:

Band	Supported Carrier Component	Beam ID	
		Single Beam	MIMO Beam
n260	1CC	19	19+147
		147	
n261	1CC	19	19+147
		147	

The worst beams are defined from the EIRP simulation report.

These modes were investigated and the worst case scenario was identified. The worst case data were presented in test report.

5. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.
6. Test data is for 4 antenna modules active with beamforming mode on. All 4 antenna modules are active with beamforming mode, beamforming mode (MIMO beam) consists of one H polarization+ one V polarization.
7. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

3.2 Description of Test Modes

Band	Component Carriers	Channel Bandwidth (MHz)	Channel	Beam ID	
				Single Beam	MIMO Beam
n260	1CC	50	2229583	19, 147	19+147
			2259997		
			2278747		
	1CC	100	2229999	19, 147	19+147
			2259997		
			2278331		
n261	1CC	50	2071249	19, 147	19+147
			2077891		
			2084581		
	1CC	100	2071667	19, 147	19+147
			2077891		
			2084165		

3.2.1 Test Mode Applicability and Tested Channel Detail

EUT Configure Mode	Applicable to						Description
	EB	EIRP	RE<1G	RE≥1G	OOB	FS	
-	√	√	√	√	√	√	-

Where **EB:** Emission Bandwidth **EIRP:** Effective Isotropically Radiated Power
RE<1G: Radiated Emission below 1GHz **RE≥1G:** Radiated Emission above 1GHz
OOB: Out-of-Band Emission at the Band Edge **FS:** Frequency Stability

Emission Bandwidth Measurement:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
☒ Following channel(s) was (were) selected for the final test as listed below.

Band	Test Carriers	Tested Channel	Modulation	Beam ID	Mode
n260	1CC	L, M, H	BPSK, QPSK, 16QAM, 64QAM	19	Full RB
n261	1CC	L, M, H	BPSK, QPSK, 16QAM, 64QAM	147	Full RB

EIRP Power Measurement:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
☒ Following channel(s) was (were) selected for the final test as listed below.

Band	Test Carriers	Tested Channel	Modulation	Beam ID	Mode
n260	1CC	L, M, H	BPSK, QPSK, 16QAM, 64QAM	19, 147, 19+147	1RB / 0RB offset 1RB / 16RB offset 1RB / 31RB offset 1RB / 32RB offset 1RB / 65RB offset Full RB
n261	1CC	L, M, H	BPSK, QPSK, 16QAM, 64QAM	19, 147, 19+147	1RB / 0RB offset 1RB / 16RB offset 1RB / 31RB offset 1RB / 32RB offset 1RB / 65RB offset Full RB

Radiated Emission Test (Below 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

Band	Test Carriers	Tested Channel	Modulation	Beam ID	Mode
n260	1CC	L, M, H	BPSK	19, 147	Full RB
		L, M, H	BPSK	19+147	Full RB
n261	1CC	L, M, H	BPSK	19, 147	Full RB
		L, M, H	BPSK	19+147	Full RB

Radiated Emission Test (Above 1GHz):

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

Band	Test Carriers	Tested Channel	Modulation	Beam ID	Mode
n260	1CC	L, M, H	BPSK	19, 147	Full RB
		L, M, H	BPSK	19+147	Full RB
n261	1CC	L, M, H	BPSK	19, 147	Full RB
		L, M, H	BPSK	19+147	Full RB

Out-of-Band Emission at the Band Edge:

☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).

☒ Following channel(s) was (were) selected for the final test as listed below.

Band	Test Carriers	Tested Channel	Modulation	Beam ID	Mode
n260	1CC	L	BPSK	19, 147, 19+147	1RB / 0RB offset Full RB
		H			1RB / 65RB offset Full RB
n261	1CC	L	BPSK	19, 147, 19+147	1RB / 0RB offset Full RB
		H			1RB / 65RB offset Full RB

Frequency Stability Measurement:

☒ This item includes all test value of each mode, but only includes spectrum plot of worst value of each mode.
☒ Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates and antenna ports (if EUT with antenna diversity architecture).
☒ Following channel(s) was (were) selected for the final test as listed below.

Band	Test Carriers	Tested Channel	Modulation	Beam ID	Mode
n260	1CC	M	BPSK	-	Full RB
n261	1CC	M	BPSK	-	Full RB

Test Condition:

Applicable to	Environmental Conditions	Input Power	Tested by
EB	25deg. C, 65%RH	120Vac, 60Hz	Leo Tsai
EIRP	25deg. C, 65%RH	120Vac, 60Hz	Leo Tsai
RE<1G	23deg. C, 67%RH	120Vac, 60Hz	Adair Peng
RE≥1G	23deg. C, 67%RH 22deg. C, 69%RH	120Vac, 60Hz	Adair Peng, Luis Lee
OOB	23deg. C, 69%RH	120Vac, 60Hz	Luis Lee
FS	25deg. C, 65%RH	120Vac, 60Hz	Leo Tsai

3.3 Duty Cycle of Test Signal

Duty cycle of test signal is 100 %.
n260: Channel Bandwidth: 50MHz: 1CC

BPSK	QPSK
	
16QAM	64QAM
	

n260: Channel Bandwidth: 100MHz: 1CC

BPSK	QPSK
	
16QAM	64QAM

n261: Channel Bandwidth: 50MHz: 1CC

BPSK	QPSK
	
16QAM	64QAM
	

n261: Channel Bandwidth: 100MHz: 1CC

BPSK	QPSK
	
16QAM	64QAM

3.4 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

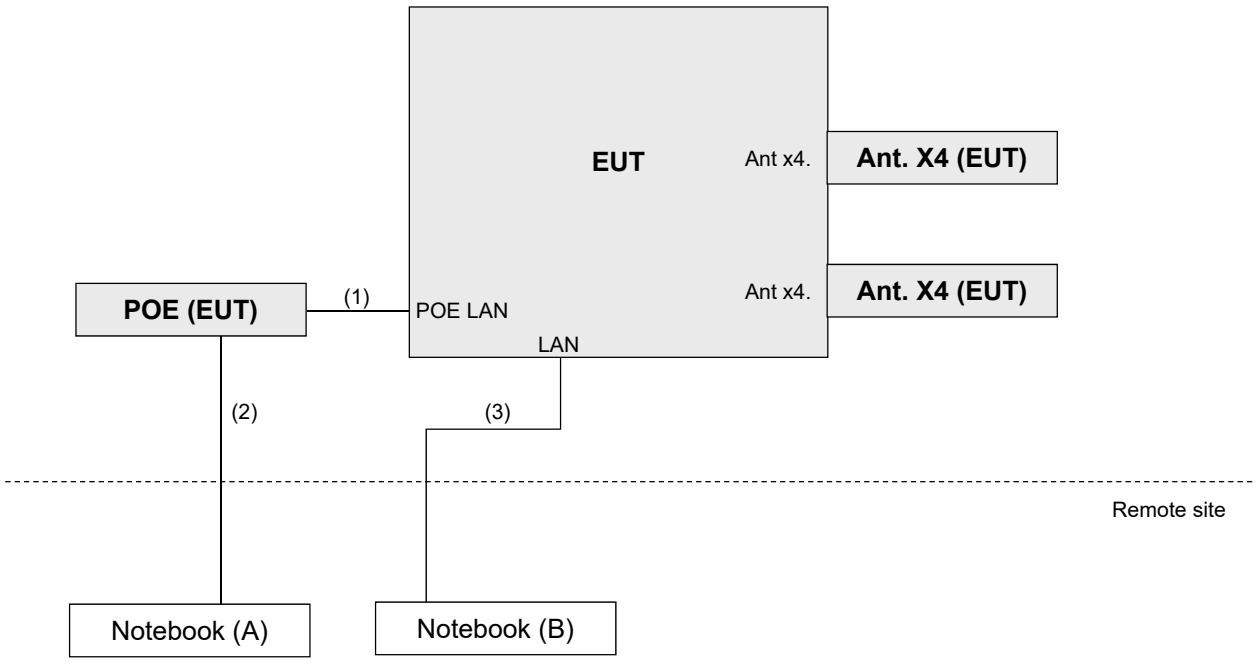
ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Notebook	Lenovo	81A4	YD02TWF5	FCC DoC Approved	-
B.	Notebook	DELL	E5410	1HC2XM1	FCC DoC Approved	-

Note:

1. All power cords of the above support units are non shielded (1.8m).
2. Items A, B acted as communication partner to transfer data.

ID	Cable Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	LAN cable	1	0.9	N	0	RJ45, Cat5e
2.	LAN cable	1	10	N	0	RJ45, Cat5e
3.	LAN cable	1	10	N	0	RJ45, Cat5e

3.4.1 Configuration of System under Test



3.5 General Description of Applied Standards and References

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards:

Test standard:
FCC 47 CFR Part 2
FCC 47 CFR Part 30
ANSI 63.26-2015

All test items have been performed and recorded as per the above standards.

References Test Guidance:
KDB 842590 D01 Upper Microwave Flexible Use Service v01

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

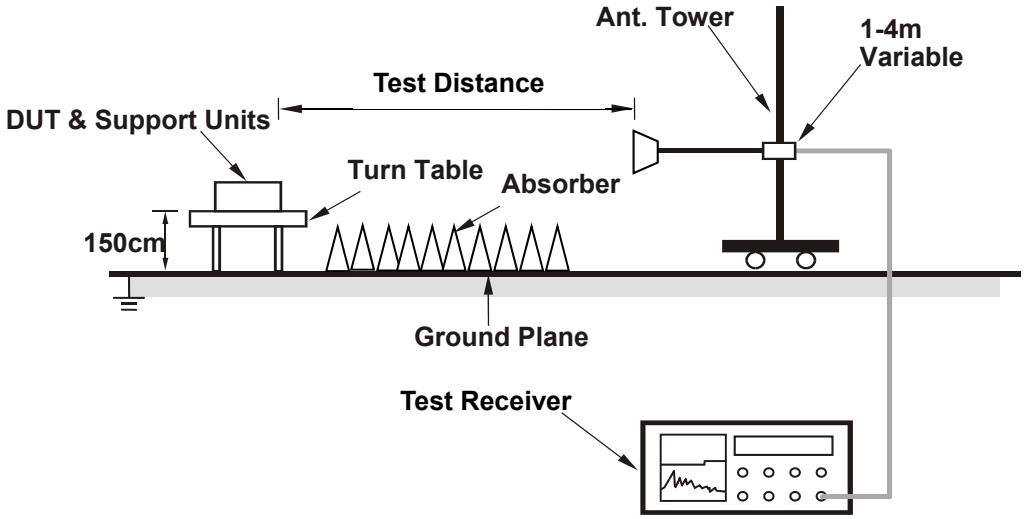
4.1 Equivalent Isotropic Radiated Power (EIRP) Measurement

4.1.1 Limits of EIRP Measurement

Device		Maximum Limit of EIRP
☐	Fixed and Base Stations	EIRP 75dBm/100MHz (sum of all antenna elements)
☐	Mobile Stations	EIRP 43dBm (sum of all antenna elements)
☒	Transportable Stations	EIRP 55dBm (sum of all antenna elements)

4.1.2 Test Setup

Test site-up for radiated ERP and/or EIRP measurements



4.1.3 Test Instruments

For Below 40GHz and Frequency Stabillity

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Test Receiver ROHDE & SCHWARZ	ESIB7	100187	May 25, 2020	May 24, 2021
Spectrum Analyzer KEYSIGHT	N9030A	MY54490561	Jul. 30, 2020	Jul. 29, 2021
Spectrum Analyzer KEYSIGHT	N9030B	MY57140953	Jul. 02, 2020	Jul. 01, 2021
*Biconical antenna SCHWARZBECK	VHBB9124	9124-546	Jan. 14, 2019	Jan. 13, 2022
*LOG Antenna SCHWARZBECK	VUSLP 9111	9111-363	Jan. 14, 2019	Jan. 13, 2022
BILOG Antenna SCHWARZBECK	VULB9168	9168-155	Nov. 03, 2020	Nov. 02, 2021
HORN Antenna SCHWARZBECK	BBHA 9120D	9120D-1170	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna ETS	3117	00034126	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170243	Nov. 22, 2020	Nov. 21, 2021
Signal Generator	N5173B	MY53270724	Apr. 01, 2020	Mar. 31, 2021
Preamplifier (Below 1GHz) Agilent	8447D	2944A10631	Jun. 08, 2020	Jun. 07, 2021
Preamplifier (1GHz-18GHz) KEYSIGHT	83017A	MY53270295	Jun. 08, 2020	Jun. 07, 2021
Pre-amplifier (18GHz-40GHz) EMC	EMC184045B	980116	Oct. 07, 2020	Oct. 06, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	MY 13380+295012/04	Jun. 08, 2020	Jun. 07, 2021
RF signal cable HUBER+SUHNER	SUCOFLEX 104	Cable-CH4-03 (250724)	Jun. 08, 2020	Jun. 07, 2021
RF signal cable HUBER+SUHNER	EMC102-KM-KM-600	150928	Aug. 16, 2020	Aug. 15, 2021
RF signal cable HUBER+SUHNER	EMC102-KM-KM-3000	150929	Aug. 16, 2020	Aug. 15, 2021
RF signal cable Rosnal	K1K50-UP0279-K1K50-3000	181129-1	Sep. 04, 2020	Sep. 03, 2021
Software BV ADT	ADT_Radiated_V7.6.15.9.5	NA	NA	NA
Antenna Tower inn-co GmbH	MA 4000	010303	NA	NA
Antenna Tower Controller BV ADT	AT100	AT93021703	NA	NA
Turn Table BV ADT	TT100	TT93021703	NA	NA
Turn Table Controller BV ADT	SC100	SC93021703	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 01, 2020	May 31, 2021
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
True RMS Clamp Meter Fluke	325	31130711WS	Jun. 06, 2020	Jun. 05, 2021

Note: 1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. *The calibration interval of the above test instruments is 36 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in HwaYa Chamber 4.

For Above 40GHz:

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer Keysight	N9030A	MY55330160	Feb. 05, 2021	Feb. 04, 2022
*OXE89 Horn Antenna (33~55GHz) QuinStar	QWH-UCRR00	924200002	Jan. 20, 2020	Jan. 19, 2022
*Conical Horn Antenna (50~75GHz) Keysight	WR15CH-Conical	WR15CH_001	Jan. 20, 2020	Jan. 19, 2022
*Conical Horn Antenna (75~110GHz) Keysight	WR10CH-Conical	WR10CH_001	Jan. 20, 2020	Jan. 19, 2022
*Conical Horn Antenna (110~170GHz) Keysight	WR6.5CH-Conical	WR6.5CH_001	Jan. 20, 2020	Jan. 19, 2022
*Conical Horn Antenna (140~220GHz) Keysight	WR5.1CH-Conical	WR5.1CH_001	Dec. 09, 2019	Dec. 08, 2021
*Conical Horn Antenna (220~330GHz) Keysight	WR3.4DH-Diagonal	WR3.4DH_001	Dec. 09, 2019	Dec. 08, 2021
N9029AV15-DC9 - 50-75 GHz VDI Standard Downconverter with 9VDC supply Keysight	SA Extension WR15	SAX 381	CoC	CoC
N9029AV10-DC9 - 75-110 GHz VDI Standard Downconverter with 9VDC supply Keysight	SA Extension WR10	SAX 378	CoC	CoC
N9029AV06-DC9 - 110-170 GHz VDI Standard Downconverter with 9VDC supply Keysight	SA Extension WR6.5	SAX 377	CoC	CoC
*N9029AV05-DC9 - 140-220 GHz VDI Standard Downconverter with 9VDC supply Keysight	SA Extension WR5.1	SAX 375	Dec. 09, 2019	Dec. 08, 2021
*N9029AV03-DC9 - 220-330 GHz VDI Standard Downconverter with 9VDC supply Keysight	SA Extension	SAX 376	Dec. 09, 2019	Dec. 08, 2021
Millimeter-Wave Signal Generator Frequency Extension Module (50~75 GHz) Keysight	E8257DV15	SGX 050	CoC	CoC
Millimeter-Wave Signal Generator Frequency Extension Module (75~110 GHz) Keysight	E8257DV10	SGX 069	CoC	CoC
Millimeter-Wave Signal Generator Frequency Extension Module (110~170 GHz) Keysight	E8257DV06-DC9	SGX 223	CoC	CoC
Millimeter-Wave Signal Generator Frequency Extension Module (140~220 GHz)	VDIWR5.1SGX	PSGX 007	CoC	CoC
PSG analog signal generator Keysight	E8257D	MY53401987	Jun. 17, 2020	Jun. 16, 2021

Description & Manufacturer	Model No.	Serial No.	Cal. Date	Cal. Due
Antenna Tower & Turn Table CT	NA	NA	NA	NA
*Power Meter VDI	PM5	431V	Dec. 09, 2019	Dec. 08, 2021

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. *The calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in HwaYa Chamber 4
4. C.O.C: Certificate of conformance

4.1.4 Test Procedures

Equivalent Isotropic Radiated Power (EIRP) measurement s are performed using broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

The average power of the sum of all antenna elements is limited to a maximum EIRP of +55dBm.

Test Procedures Used
ANSI C63.26-2015 Section 5.2.4.4.1
KDB 842590 D01 v01 Section 4.2

Measurement Distance

EUT antenna of far field distance		
Measurement Frequency range	Far Field calculation distance	Measurement Distance (Far field)
Below 18GHz	0.279m	2m
18GHz to 40GHz	0.621m	2m
40GHz to 170GHz	2.646m	3m
170GHz to 200GHz	3.104m	3.5m
Note: EUT Antenna Dimension is 48.25mm length.		
Measurement antenna of far field distance		
Measurement Frequency range	Far Field calculation distance	Measurement Distance (Far field)
40GHz-50GHz	30mm	1m
50GHz-75GHz	25mm	1m
75GHz-110GHz	18mm	1m
110GHz-170GHz	12mm	1m
170GHz-200GHz	8mm	1m

4.1.5 Test Settings

a. Radiated power measurements were performed using the spectrum analyzer's channel power measurement function.

b. Set the RBW =1~5% of the anticipated RBW=1MHz, and the VBW ≥ 3 x RBW.

c. Set spectrum analyzer detection mode to RMS

d. Span = 2x to 3x the OBW

e. No. of sweep points ≥ 2 x span / RBW

f. Trigger is set to "free run" for test signals with continuous operation with the sweep times set to "auto". Trigger is set to enable triggering only on full power bursts with the sweep time set less that or equal to the transmission burst duration.

g. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signal with burst transmission, the "gating" function was enabled to ensure that measurements were performed during times in which the transmitter is operating at its maximum power.

h. Trace mode = trace averaging (RMS) over 100 sweeps.

i. The trace was allowed to stabilize.

Note:

1. EIRP measurements were taken at 2m test distance.

2. The average EIRP reported below is calculated per section 5.2.7 of ANSI C63.26-2015 which states: EIRP (dBm) = E (dBμV/m) + 20log(D) – 104.8; where D is the measurement distance (in the far field region) in m. The field strength E is calculated E (dBμV/m) = Spectrum Analyzer Channel Power Level (dBm) + Antenna Factor (dB/m) + Cable Loss (dB) + 107.

4.1.6 Deviation from Test Standard

No deviation.

4.1.7 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.1.8 Test Result

n260: 1CC

Band	n260	Beam ID	19
EUT position	Z-plane	Receive Antenna polarization	Vertical

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
BPSK	50	2229583	37025.04	1RB0	110	33.89	55.00	PASS
				1RB16	110	36.19	55.00	PASS
				1RB31	110	32.48	55.00	PASS
				Full RB	110	44.69	55.00	PASS
		2259997	38849.88	1RB0	110	32.11	55.00	PASS
				1RB16	110	34.35	55.00	PASS
				1RB31	110	33.77	55.00	PASS
				Full RB	110	44.46	55.00	PASS
		2278747	39974.88	1RB0	110	33.31	55.00	PASS
				1RB16	110	36.32	55.00	PASS
				1RB31	110	34.13	55.00	PASS
				Full RB	110	42.33	55.00	PASS
QPSK	50	2229583	37025.04	1RB0	110	42.16	55.00	PASS
				1RB16	110	43.69	55.00	PASS
				1RB31	110	40.67	55.00	PASS
				Full RB	110	42.87	55.00	PASS
		2259997	38849.88	1RB0	110	40.52	55.00	PASS
				1RB16	110	42.33	55.00	PASS
				1RB31	110	41.85	55.00	PASS
				Full RB	110	42.93	55.00	PASS
		2278747	39974.88	1RB0	110	41.52	55.00	PASS
				1RB16	110	44.27	55.00	PASS
				1RB31	110	42.85	55.00	PASS
				Full RB	110	41.59	55.00	PASS

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
16QAM	50	2229583	37025.04	1RB0	110	41.89	55.00	PASS
				1RB16	110	43.66	55.00	PASS
				1RB31	110	40.58	55.00	PASS
				Full RB	110	42.71	55.00	PASS
		2259997	38849.88	1RB0	110	40.33	55.00	PASS
				1RB16	110	42.22	55.00	PASS
				1RB31	110	41.57	55.00	PASS
				Full RB	110	42.73	55.00	PASS
		2278747	39974.88	1RB0	110	41.41	55.00	PASS
				1RB16	110	44.12	55.00	PASS
				1RB31	110	42.72	55.00	PASS
				Full RB	110	41.34	55.00	PASS
64QAM	50	2229583	37025.04	1RB0	110	41.85	55.00	PASS
				1RB16	110	43.47	55.00	PASS
				1RB31	110	40.42	55.00	PASS
				Full RB	110	42.36	55.00	PASS
		2259997	38849.88	1RB0	110	40.29	55.00	PASS
				1RB16	110	42.15	55.00	PASS
				1RB31	110	41.37	55.00	PASS
				Full RB	110	42.41	55.00	PASS
		2278747	39974.88	1RB0	110	41.34	55.00	PASS
				1RB16	110	43.92	55.00	PASS
				1RB31	110	42.54	55.00	PASS
				Full RB	110	41.23	55.00	PASS

n260: 1CC

Band	n260	Beam ID	147
EUT position	Z-plane	Receive Antenna polarization	Horizontal

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
BPSK	50	2229583	37025.04	1RB0	110	32.49	55.00	PASS
				1RB16	110	35.18	55.00	PASS
				1RB31	110	33.34	55.00	PASS
				Full RB	110	43.36	55.00	PASS
		2259997	38849.88	1RB0	110	34.11	55.00	PASS
				1RB16	110	36.65	55.00	PASS
				1RB31	110	33.86	55.00	PASS
				Full RB	110	43.48	55.00	PASS
		2278747	39974.88	1RB0	110	32.34	55.00	PASS
				1RB16	110	34.48	55.00	PASS
				1RB31	110	32.03	55.00	PASS
				Full RB	110	41.69	55.00	PASS
QPSK	50	2229583	37025.04	1RB0	110	40.96	55.00	PASS
				1RB16	110	43.41	55.00	PASS
				1RB31	110	41.67	55.00	PASS
				Full RB	110	42.62	55.00	PASS
		2259997	38849.88	1RB0	110	42.47	55.00	PASS
				1RB16	110	44.38	55.00	PASS
				1RB31	110	42.25	55.00	PASS
				Full RB	110	42.77	55.00	PASS
		2278747	39974.88	1RB0	110	40.68	55.00	PASS
				1RB16	110	42.27	55.00	PASS
				1RB31	110	40.51	55.00	PASS
				Full RB	110	41.98	55.00	PASS

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
16QAM	50	2229583	37025.04	1RB0	110	40.82	55.00	PASS
				1RB16	110	43.29	55.00	PASS
				1RB31	110	41.58	55.00	PASS
				Full RB	110	42.66	55.00	PASS
		2259997	38849.88	1RB0	110	42.28	55.00	PASS
				1RB16	110	44.23	55.00	PASS
				1RB31	110	42.14	55.00	PASS
				Full RB	110	42.63	55.00	PASS
		2278747	39974.88	1RB0	110	40.54	55.00	PASS
				1RB16	110	42.15	55.00	PASS
				1RB31	110	40.31	55.00	PASS
				Full RB	110	41.86	55.00	PASS
64QAM	50	2229583	37025.04	1RB0	110	40.79	55.00	PASS
				1RB16	110	43.04	55.00	PASS
				1RB31	110	41.55	55.00	PASS
				Full RB	110	42.37	55.00	PASS
		2259997	38849.88	1RB0	110	42.19	55.00	PASS
				1RB16	110	44.15	55.00	PASS
				1RB31	110	41.97	55.00	PASS
				Full RB	110	42.46	55.00	PASS
		2278747	39974.88	1RB0	110	40.35	55.00	PASS
				1RB16	110	42.09	55.00	PASS
				1RB31	110	40.17	55.00	PASS
				Full RB	110	41.44	55.00	PASS

n260: 1CC

Band	n260	Beam ID	19+147

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
BPSK	50	2229583	37025.04	1RB0	110	36.26	55.00	PASS
				1RB32	110	38.72	55.00	PASS
				1RB65	110	35.94	55.00	PASS
				Full RB	110	47.09	55.00	PASS
		2259997	38849.88	1RB0	110	36.23	55.00	PASS
				1RB32	110	38.66	55.00	PASS
				1RB65	110	36.83	55.00	PASS
				Full RB	110	47.01	55.00	PASS
		2278331	39974.88	1RB0	110	35.86	55.00	PASS
				1RB32	110	38.51	55.00	PASS
				1RB65	110	36.22	55.00	PASS
				Full RB	110	45.03	55.00	PASS
QPSK	50	2229583	37025.04	1RB0	110	44.61	55.00	PASS
				1RB32	110	46.56	55.00	PASS
				1RB65	110	44.21	55.00	PASS
				Full RB	110	45.76	55.00	PASS
		2259997	38849.88	1RB0	110	44.61	55.00	PASS
				1RB32	110	46.49	55.00	PASS
				1RB65	110	45.06	55.00	PASS
				Full RB	110	45.86	55.00	PASS
		2278331	39974.88	1RB0	110	44.13	55.00	PASS
				1RB32	110	46.39	55.00	PASS
				1RB65	110	44.85	55.00	PASS
				Full RB	110	44.80	55.00	PASS

Note: MIMO power is a linear summation by SISO beam

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
16QAM	50	2229583	37025.04	1RB0	110	44.40	55.00	PASS
				1RB32	110	46.49	55.00	PASS
				1RB65	110	44.12	55.00	PASS
				Full RB	110	45.70	55.00	PASS
		2259997	38849.88	1RB0	110	44.42	55.00	PASS
				1RB32	110	46.35	55.00	PASS
				1RB65	110	44.87	55.00	PASS
				Full RB	110	45.69	55.00	PASS
		2278331	39974.88	1RB0	110	44.01	55.00	PASS
				1RB32	110	46.26	55.00	PASS
				1RB65	110	44.69	55.00	PASS
				Full RB	110	44.62	55.00	PASS
64QAM	50	2229583	37025.04	1RB0	110	44.36	55.00	PASS
				1RB32	110	46.27	55.00	PASS
				1RB65	110	44.03	55.00	PASS
				Full RB	110	45.38	55.00	PASS
		2259997	38849.88	1RB0	110	44.35	55.00	PASS
				1RB32	110	46.27	55.00	PASS
				1RB65	110	44.69	55.00	PASS
				Full RB	110	45.45	55.00	PASS
		2278331	39974.88	1RB0	110	43.88	55.00	PASS
				1RB32	110	46.11	55.00	PASS
				1RB65	110	44.53	55.00	PASS
				Full RB	110	44.35	55.00	PASS

Note: MIMO power is a linear summation by SISO beam

n260: 1CC

Band	n260	Beam ID	19
EUT position	Z-plane	Receive Antenna polarization	Vertical

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
BPSK	100	2229999	37050	1RB0	110	33.89	55.00	PASS
				1RB32	110	36.18	55.00	PASS
				1RB65	110	32.34	55.00	PASS
				Full RB	110	44.45	55.00	PASS
		2259997	38849.88	1RB0	110	32.64	55.00	PASS
				1RB32	110	37.08	55.00	PASS
				1RB65	110	33.52	55.00	PASS
				Full RB	110	44.25	55.00	PASS
		2278331	39949.92	1RB0	110	32.41	55.00	PASS
				1RB32	110	36.45	55.00	PASS
				1RB65	110	31.42	55.00	PASS
				Full RB	110	42.15	55.00	PASS
QPSK	100	2229999	37050	1RB0	110	42.36	55.00	PASS
				1RB32	110	44.89	55.00	PASS
				1RB65	110	40.30	55.00	PASS
				Full RB	110	42.66	55.00	PASS
		2259997	38849.88	1RB0	110	41.54	55.00	PASS
				1RB32	110	45.42	55.00	PASS
				1RB65	110	41.62	55.00	PASS
				Full RB	110	42.47	55.00	PASS
		2278331	39949.92	1RB0	110	40.92	55.00	PASS
				1RB32	110	44.24	55.00	PASS
				1RB65	110	40.13	55.00	PASS
				Full RB	110	40.68	55.00	PASS

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
16QAM	100	2229999	37050	1RB0	110	42.19	55.00	PASS
				1RB32	110	44.85	55.00	PASS
				1RB65	110	40.21	55.00	PASS
				Full RB	110	42.36	55.00	PASS
		2259997	38849.88	1RB0	110	41.46	55.00	PASS
				1RB32	110	45.36	55.00	PASS
				1RB65	110	41.43	55.00	PASS
				Full RB	110	42.08	55.00	PASS
		2278331	39949.92	1RB0	110	40.82	55.00	PASS
				1RB32	110	44.03	55.00	PASS
				1RB65	110	40.09	55.00	PASS
				Full RB	110	40.13	55.00	PASS
64QAM	100	2229999	37050	1RB0	110	42.05	55.00	PASS
				1RB32	110	44.54	55.00	PASS
				1RB65	110	40.11	55.00	PASS
				Full RB	110	40.35	55.00	PASS
		2259997	38849.88	1RB0	110	41.25	55.00	PASS
				1RB32	110	45.23	55.00	PASS
				1RB65	110	41.25	55.00	PASS
				Full RB	110	40.21	55.00	PASS
		2278331	39949.92	1RB0	110	40.66	55.00	PASS
				1RB32	110	43.83	55.00	PASS
				1RB65	110	39.83	55.00	PASS
				Full RB	110	39.36	55.00	PASS

n260: 1CC

Band	n260	Beam ID	147
EUT position	Z-plane	Receive Antenna polarization	Horizontal

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
BPSK	100	2229999	37050	1RB0	110	31.55	55.00	PASS
				1RB32	110	36.19	55.00	PASS
				1RB65	110	31.82	55.00	PASS
				Full RB	110	43.77	55.00	PASS
		2259997	38849.88	1RB0	110	33.19	55.00	PASS
				1RB32	110	36.58	55.00	PASS
				1RB65	110	32.29	55.00	PASS
				Full RB	110	43.42	55.00	PASS
		2278331	39949.92	1RB0	110	31.88	55.00	PASS
				1RB32	110	34.78	55.00	PASS
				1RB65	110	29.65	55.00	PASS
				Full RB	110	41.51	55.00	PASS
QPSK	100	2229999	37050	1RB0	110	39.46	55.00	PASS
				1RB32	110	43.35	55.00	PASS
				1RB65	110	39.72	55.00	PASS
				Full RB	110	41.71	55.00	PASS
		2259997	38849.88	1RB0	110	41.32	55.00	PASS
				1RB32	110	44.12	55.00	PASS
				1RB65	110	40.61	55.00	PASS
				Full RB	110	41.42	55.00	PASS
		2278331	39949.92	1RB0	110	40.15	55.00	PASS
				1RB32	110	42.61	55.00	PASS
				1RB65	110	38.49	55.00	PASS
				Full RB	110	40.85	55.00	PASS

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
16QAM	100	2229999	37050	1RB0	110	39.35	55.00	PASS
				1RB32	110	43.23	55.00	PASS
				1RB65	110	39.68	55.00	PASS
				Full RB	110	41.44	55.00	PASS
		2259997	38849.88	1RB0	110	41.24	55.00	PASS
				1RB32	110	44.09	55.00	PASS
				1RB65	110	40.44	55.00	PASS
				Full RB	110	41.38	55.00	PASS
		2278331	39949.92	1RB0	110	40.06	55.00	PASS
				1RB32	110	42.53	55.00	PASS
				1RB65	110	38.31	55.00	PASS
				Full RB	110	40.32	55.00	PASS
64QAM	100	2229999	37050	1RB0	110	39.31	55.00	PASS
				1RB32	110	43.15	55.00	PASS
				1RB65	110	39.38	55.00	PASS
				Full RB	110	41.27	55.00	PASS
		2259997	38849.88	1RB0	110	41.01	55.00	PASS
				1RB32	110	43.97	55.00	PASS
				1RB65	110	40.21	55.00	PASS
				Full RB	110	41.12	55.00	PASS
		2278331	39949.92	1RB0	110	39.85	55.00	PASS
				1RB32	110	42.47	55.00	PASS
				1RB65	110	38.16	55.00	PASS
				Full RB	110	39.89	55.00	PASS

n260: 1CC

Band	n260	Beam ID	19+147

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
BPSK	100	2229999	37050	1RB0	110	35.89	55.00	PASS
				1RB32	110	39.20	55.00	PASS
				1RB65	110	35.10	55.00	PASS
				Full RB	110	47.13	55.00	PASS
		2259997	38849.88	1RB0	110	35.93	55.00	PASS
				1RB32	110	39.85	55.00	PASS
				1RB65	110	35.96	55.00	PASS
				Full RB	110	46.87	55.00	PASS
		2278331	39949.92	1RB0	110	35.16	55.00	PASS
				1RB32	110	38.71	55.00	PASS
				1RB65	110	33.63	55.00	PASS
				Full RB	110	44.85	55.00	PASS
QPSK	100	2229999	37050	1RB0	110	44.16	55.00	PASS
				1RB32	110	47.20	55.00	PASS
				1RB65	110	43.03	55.00	PASS
				Full RB	110	45.22	55.00	PASS
		2259997	38849.88	1RB0	110	44.44	55.00	PASS
				1RB32	110	**47.83**	55.00	PASS
				1RB65	110	44.15	55.00	PASS
				Full RB	110	44.99	55.00	PASS
		2278331	39949.92	1RB0	110	43.56	55.00	PASS
				1RB32	110	46.51	55.00	PASS
				1RB65	110	42.40	55.00	PASS
				Full RB	110	43.78	55.00	PASS

Note: MIMO power is a linear summation by SISO beam

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
16QAM	100	2229999	37050	1RB0	110	44.01	55.00	PASS
				1RB32	110	47.13	55.00	PASS
				1RB65	110	42.96	55.00	PASS
				Full RB	110	44.93	55.00	PASS
		2259997	38849.88	1RB0	110	44.36	55.00	PASS
				1RB32	110	47.78	55.00	PASS
				1RB65	110	43.97	55.00	PASS
				Full RB	110	44.75	55.00	PASS
		2278331	39949.92	1RB0	110	43.47	55.00	PASS
				1RB32	110	46.35	55.00	PASS
				1RB65	110	42.30	55.00	PASS
				Full RB	110	43.24	55.00	PASS
64QAM	100	2229999	37050	1RB0	110	43.90	55.00	PASS
				1RB32	110	46.91	55.00	PASS
				1RB65	110	42.77	55.00	PASS
				Full RB	110	43.84	55.00	PASS
		2259997	38849.88	1RB0	110	44.14	55.00	PASS
				1RB32	110	47.66	55.00	PASS
				1RB65	110	43.77	55.00	PASS
				Full RB	110	43.70	55.00	PASS
		2278331	39949.92	1RB0	110	43.28	55.00	PASS
				1RB32	110	46.21	55.00	PASS
				1RB65	110	42.09	55.00	PASS
				Full RB	110	42.64	55.00	PASS

Note: MIMO power is a linear summation by SISO beam

n261: 1CC

Band	n261	Beam ID	19
EUT position	Z-plane	Receive Antenna polarization	Vertical

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
BPSK	50	2071249	27525	1RB0	110	33.55	55.00	PASS
				1RB16	110	35.82	55.00	PASS
				1RB31	110	33.93	55.00	PASS
				Full RB	110	42.89	55.00	PASS
		2077891	27923.52	1RB0	110	34.11	55.00	PASS
				1RB16	110	36.45	55.00	PASS
				1RB31	110	34.33	55.00	PASS
				Full RB	110	42.65	55.00	PASS
		2084581	28324.92	1RB0	110	33.35	55.00	PASS
				1RB16	110	34.82	55.00	PASS
				1RB31	110	33.10	55.00	PASS
				Full RB	110	40.39	55.00	PASS
QPSK	50	2071249	27525	1RB0	110	42.35	55.00	PASS
				1RB16	110	44.42	55.00	PASS
				1RB31	110	41.98	55.00	PASS
				Full RB	110	40.85	55.00	PASS
		2077891	27923.52	1RB0	110	41.95	55.00	PASS
				1RB16	110	44.66	55.00	PASS
				1RB31	110	42.42	55.00	PASS
				Full RB	110	40.95	55.00	PASS
		2084581	28324.92	1RB0	110	41.11	55.00	PASS
				1RB16	110	42.83	55.00	PASS
				1RB31	110	41.15	55.00	PASS
				Full RB	110	39.57	55.00	PASS

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
16QAM	50	2071249	27525	1RB0	110	42.19	55.00	PASS
				1RB16	110	44.35	55.00	PASS
				1RB31	110	41.74	55.00	PASS
				Full RB	110	40.73	55.00	PASS
		2077891	27923.52	1RB0	110	41.87	55.00	PASS
				1RB16	110	44.42	55.00	PASS
				1RB31	110	42.35	55.00	PASS
				Full RB	110	40.79	55.00	PASS
		2084581	28324.92	1RB0	110	41.42	55.00	PASS
				1RB16	110	42.75	55.00	PASS
				1RB31	110	41.03	55.00	PASS
				Full RB	110	39.44	55.00	PASS
64QAM	50	2071249	27525	1RB0	110	42.07	55.00	PASS
				1RB16	110	44.23	55.00	PASS
				1RB31	110	41.53	55.00	PASS
				Full RB	110	40.21	55.00	PASS
		2077891	27923.52	1RB0	110	41.66	55.00	PASS
				1RB16	110	44.35	55.00	PASS
				1RB31	110	42.28	55.00	PASS
				Full RB	110	40.53	55.00	PASS
		2084581	28324.92	1RB0	110	41.87	55.00	PASS
				1RB16	110	42.65	55.00	PASS
				1RB31	110	40.92	55.00	PASS
				Full RB	110	39.12	55.00	PASS

Band	n261	Beam ID	147
EUT position	Z-plane	Receive Antenna polarization	Horizontal

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
BPSK	50	2071249	27525	1RB0	110	33.59	55.00	PASS
				1RB16	110	36.01	55.00	PASS
				1RB31	110	33.76	55.00	PASS
				Full RB	110	42.28	55.00	PASS
		2077891	27923.52	1RB0	110	33.15	55.00	PASS
				1RB16	110	35.95	55.00	PASS
				1RB31	110	34.19	55.00	PASS
				Full RB	110	42.06	55.00	PASS
		2084581	28324.92	1RB0	110	32.82	55.00	PASS
				1RB16	110	34.66	55.00	PASS
				1RB31	110	32.36	55.00	PASS
				Full RB	110	41.11	55.00	PASS
QPSK	50	2071249	27525	1RB0	110	41.85	55.00	PASS
				1RB16	110	43.91	55.00	PASS
				1RB31	110	41.92	55.00	PASS
				Full RB	110	40.69	55.00	PASS
		2077891	27923.52	1RB0	110	41.43	55.00	PASS
				1RB16	110	43.41	55.00	PASS
				1RB31	110	42.26	55.00	PASS
				Full RB	110	40.84	55.00	PASS
		2084581	28324.92	1RB0	110	40.89	55.00	PASS
				1RB16	110	42.71	55.00	PASS
				1RB31	110	40.66	55.00	PASS
				Full RB	110	40.16	55.00	PASS

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
16QAM	50	2071249	27525	1RB0	110	41.75	55.00	PASS
				1RB16	110	43.86	55.00	PASS
				1RB31	110	41.87	55.00	PASS
				Full RB	110	40.55	55.00	PASS
		2077891	27923.52	1RB0	110	41.31	55.00	PASS
				1RB16	110	43.26	55.00	PASS
				1RB31	110	42.12	55.00	PASS
				Full RB	110	40.63	55.00	PASS
		2084581	28324.92	1RB0	110	40.76	55.00	PASS
				1RB16	110	42.52	55.00	PASS
				1RB31	110	40.57	55.00	PASS
				Full RB	110	39.99	55.00	PASS
64QAM	50	2071249	27525	1RB0	110	41.58	55.00	PASS
				1RB16	110	43.72	55.00	PASS
				1RB31	110	41.72	55.00	PASS
				Full RB	110	40.38	55.00	PASS
		2077891	27923.52	1RB0	110	41.25	55.00	PASS
				1RB16	110	43.15	55.00	PASS
				1RB31	110	42.07	55.00	PASS
				Full RB	110	40.42	55.00	PASS
		2084581	28324.92	1RB0	110	40.63	55.00	PASS
				1RB16	110	42.42	55.00	PASS
				1RB31	110	40.35	55.00	PASS
				Full RB	110	39.71	55.00	PASS

n261: 1CC

Band	n261	Beam ID	19+147

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
BPSK	50	2071249	27525	1RB0	110	36.58	55.00	PASS
				1RB16	110	38.93	55.00	PASS
				1RB31	110	36.86	55.00	PASS
				Full RB	110	45.61	55.00	PASS
		2077891	27923.52	1RB0	110	36.67	55.00	PASS
				1RB16	110	39.22	55.00	PASS
				1RB31	110	37.27	55.00	PASS
				Full RB	110	45.38	55.00	PASS
		2084581	28324.92	1RB0	110	36.10	55.00	PASS
				1RB16	110	37.75	55.00	PASS
				1RB31	110	35.76	55.00	PASS
				Full RB	110	43.78	55.00	PASS
QPSK	50	2071249	27525	1RB0	110	45.12	55.00	PASS
				1RB16	110	47.18	55.00	PASS
				1RB31	110	44.96	55.00	PASS
				Full RB	110	43.78	55.00	PASS
		2077891	27923.52	1RB0	110	44.71	55.00	PASS
				1RB16	110	47.09	55.00	PASS
				1RB31	110	45.35	55.00	PASS
				Full RB	110	43.91	55.00	PASS
		2084581	28324.92	1RB0	110	44.01	55.00	PASS
				1RB16	110	45.78	55.00	PASS
				1RB31	110	43.92	55.00	PASS
				Full RB	110	42.89	55.00	PASS

Note: MIMO power is a linear summation by SISO beam

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
16QAM	50	2071249	27525	1RB0	110	44.99	55.00	PASS
				1RB16	110	47.12	55.00	PASS
				1RB31	110	44.82	55.00	PASS
				Full RB	110	43.65	55.00	PASS
		2077891	27923.52	1RB0	110	44.61	55.00	PASS
				1RB16	110	46.89	55.00	PASS
				1RB31	110	45.25	55.00	PASS
				Full RB	110	43.72	55.00	PASS
		2084581	28324.92	1RB0	110	44.11	55.00	PASS
				1RB16	110	45.65	55.00	PASS
				1RB31	110	43.82	55.00	PASS
				Full RB	110	42.73	55.00	PASS
64QAM	50	2071249	27525	1RB0	110	44.84	55.00	PASS
				1RB16	110	46.99	55.00	PASS
				1RB31	110	44.64	55.00	PASS
				Full RB	110	43.31	55.00	PASS
		2077891	27923.52	1RB0	110	44.47	55.00	PASS
				1RB16	110	46.80	55.00	PASS
				1RB31	110	45.19	55.00	PASS
				Full RB	110	43.49	55.00	PASS
		2084581	28324.92	1RB0	110	44.30	55.00	PASS
				1RB16	110	45.55	55.00	PASS
				1RB31	110	43.65	55.00	PASS
				Full RB	110	42.44	55.00	PASS

Note: MIMO power is a linear summation by SISO beam

n261: 1CC

Band	n261	Beam ID	19
EUT position	Z-plane	Receive Antenna polarization	Vertical

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
BPSK	100	2071667	27550.08	1RB0	110	31.45	55.00	PASS
				1RB32	110	36.42	55.00	PASS
				1RB65	110	31.57	55.00	PASS
				Full RB	110	42.73	55.00	PASS
		2077891	27923.52	1RB0	110	32.42	55.00	PASS
				1RB32	110	36.66	55.00	PASS
				1RB65	110	32.54	55.00	PASS
				Full RB	110	42.58	55.00	PASS
		2084165	28299.96	1RB0	110	31.12	55.00	PASS
				1RB32	110	34.35	55.00	PASS
				1RB65	110	31.19	55.00	PASS
				Full RB	110	41.43	55.00	PASS
QPSK	100	2071667	27550.08	1RB0	110	40.15	55.00	PASS
				1RB32	110	44.16	55.00	PASS
				1RB65	110	40.27	55.00	PASS
				Full RB	110	41.01	55.00	PASS
		2077891	27923.52	1RB0	110	40.63	55.00	PASS
				1RB32	110	44.33	55.00	PASS
				1RB65	110	40.11	55.00	PASS
				Full RB	110	40.87	55.00	PASS
		2084165	28299.96	1RB0	110	40.11	55.00	PASS
				1RB32	110	44.25	55.00	PASS
				1RB65	110	40.07	55.00	PASS
				Full RB	110	39.68	55.00	PASS

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
16QAM	100	2071667	27550.08	1RB0	110	40.01	55.00	PASS
				1RB32	110	44.06	55.00	PASS
				1RB65	110	40.15	55.00	PASS
				Full RB	110	40.99	55.00	PASS
		2077891	27923.52	1RB0	110	40.51	55.00	PASS
				1RB32	110	44.22	55.00	PASS
				1RB65	110	40.01	55.00	PASS
				Full RB	110	40.86	55.00	PASS
		2084165	28299.96	1RB0	110	39.97	55.00	PASS
				1RB32	110	44.05	55.00	PASS
				1RB65	110	39.92	55.00	PASS
				Full RB	110	39.57	55.00	PASS
64QAM	100	2071667	27550.08	1RB0	110	39.92	55.00	PASS
				1RB32	110	43.91	55.00	PASS
				1RB65	110	40.03	55.00	PASS
				Full RB	110	40.45	55.00	PASS
		2077891	27923.52	1RB0	110	40.42	55.00	PASS
				1RB32	110	44.13	55.00	PASS
				1RB65	110	39.95	55.00	PASS
				Full RB	110	40.33	55.00	PASS
		2084165	28299.96	1RB0	110	39.85	55.00	PASS
				1RB32	110	43.95	55.00	PASS
				1RB65	110	39.79	55.00	PASS
				Full RB	110	39.36	55.00	PASS

n261: 1CC

Band	n261	Beam ID	147
EUT position	Z-plane	Receive Antenna polarization	Horizontal

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
BPSK	100	2071667	27550.08	1RB0	110	31.95	55.00	PASS
				1RB32	110	36.15	55.00	PASS
				1RB65	110	32.36	55.00	PASS
				Full RB	110	41.68	55.00	PASS
		2077891	27923.52	1RB0	110	32.22	55.00	PASS
				1RB32	110	36.07	55.00	PASS
				1RB65	110	32.44	55.00	PASS
				Full RB	110	41.46	55.00	PASS
		2084165	28299.96	1RB0	110	32.55	55.00	PASS
				1RB32	110	35.87	55.00	PASS
				1RB65	110	31.22	55.00	PASS
				Full RB	110	40.26	55.00	PASS
QPSK	100	2071667	27550.08	1RB0	110	40.55	55.00	PASS
				1RB32	110	44.56	55.00	PASS
				1RB65	110	39.96	55.00	PASS
				Full RB	110	40.61	55.00	PASS
		2077891	27923.52	1RB0	110	40.67	55.00	PASS
				1RB32	110	44.51	55.00	PASS
				1RB65	110	40.23	55.00	PASS
				Full RB	110	40.28	55.00	PASS
		2084165	28299.96	1RB0	110	40.10	55.00	PASS
				1RB32	110	44.55	55.00	PASS
				1RB65	110	39.20	55.00	PASS
				Full RB	110	39.97	55.00	PASS

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
16QAM	100	2071667	27550.08	1RB0	110	40.41	55.00	PASS
				1RB32	110	44.42	55.00	PASS
				1RB65	110	39.81	55.00	PASS
				Full RB	110	40.56	55.00	PASS
		2077891	27923.52	1RB0	110	40.51	55.00	PASS
				1RB32	110	44.41	55.00	PASS
				1RB65	110	40.04	55.00	PASS
				Full RB	110	40.25	55.00	PASS
		2084165	28299.96	1RB0	110	39.88	55.00	PASS
				1RB32	110	44.35	55.00	PASS
				1RB65	110	39.03	55.00	PASS
				Full RB	110	39.86	55.00	PASS
64QAM	100	2071667	27550.08	1RB0	110	40.29	55.00	PASS
				1RB32	110	44.32	55.00	PASS
				1RB65	110	39.69	55.00	PASS
				Full RB	110	40.37	55.00	PASS
		2077891	27923.52	1RB0	110	40.35	55.00	PASS
				1RB32	110	44.28	55.00	PASS
				1RB65	110	39.88	55.00	PASS
				Full RB	110	40.01	55.00	PASS
		2084165	28299.96	1RB0	110	39.75	55.00	PASS
				1RB32	110	44.21	55.00	PASS
				1RB65	110	38.71	55.00	PASS
				Full RB	110	39.65	55.00	PASS

n261: 1CC

Band	n261	Beam ID	19+147

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
BPSK	100	2071667	27550.08	1RB0	110	34.72	55.00	PASS
				1RB32	110	39.30	55.00	PASS
				1RB65	110	34.99	55.00	PASS
				Full RB	110	45.25	55.00	PASS
		2077891	27923.52	1RB0	110	35.33	55.00	PASS
				1RB32	110	39.39	55.00	PASS
				1RB65	110	35.50	55.00	PASS
				Full RB	110	45.07	55.00	PASS
		2084165	28299.96	1RB0	110	34.90	55.00	PASS
				1RB32	110	38.19	55.00	PASS
				1RB65	110	34.22	55.00	PASS
				Full RB	110	43.89	55.00	PASS
QPSK	100	2071667	27550.08	1RB0	110	43.36	55.00	PASS
				1RB32	110	47.37	55.00	PASS
				1RB65	110	43.13	55.00	PASS
				Full RB	110	43.82	55.00	PASS
		2077891	27923.52	1RB0	110	43.66	55.00	PASS
				1RB32	110	**47.43**	55.00	PASS
				1RB65	110	43.18	55.00	PASS
				Full RB	110	43.60	55.00	PASS
		2084165	28299.96	1RB0	110	43.12	55.00	PASS
				1RB32	110	47.41	55.00	PASS
				1RB65	110	42.67	55.00	PASS
				Full RB	110	42.84	55.00	PASS

Note: MIMO power is a linear summation by SISO beam

Modulation	Bandwidth (MHz)	Channel	Frequency (MHz)	RB Condition	Power Setting	EIRP Avg. (dBm)	Limit Avg. (dBm)	Pass / Fail
16QAM	100	2071667	27550.08	1RB0	110	43.22	55.00	PASS
				1RB32	110	47.25	55.00	PASS
				1RB65	110	42.99	55.00	PASS
				Full RB	110	43.79	55.00	PASS
		2077891	27923.52	1RB0	110	43.52	55.00	PASS
				1RB32	110	47.33	55.00	PASS
				1RB65	110	43.04	55.00	PASS
				Full RB	110	43.58	55.00	PASS
		2084165	28299.96	1RB0	110	42.94	55.00	PASS
				1RB32	110	47.21	55.00	PASS
				1RB65	110	42.51	55.00	PASS
				Full RB	110	42.73	55.00	PASS
64QAM	100	2071667	27550.08	1RB0	110	43.12	55.00	PASS
				1RB32	110	47.13	55.00	PASS
				1RB65	110	42.87	55.00	PASS
				Full RB	110	43.42	55.00	PASS
		2077891	27923.52	1RB0	110	43.40	55.00	PASS
				1RB32	110	47.22	55.00	PASS
				1RB65	110	42.93	55.00	PASS
				Full RB	110	43.18	55.00	PASS
		2084165	28299.96	1RB0	110	42.81	55.00	PASS
				1RB32	110	47.09	55.00	PASS
				1RB65	110	42.29	55.00	PASS
				Full RB	110	42.52	55.00	PASS

Note: MIMO power is a linear summation by SISO beam

4.2 Emission Bandwidth Measurement

4.2.1 Limit of Emission Bandwidth Measurement

The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

4.2.2 Test Setup

Refer to section 4.2.2

4.2.3 Test Instruments

Refer to section 4.2.3 to get information of above instrument.

4.2.4 Test Procedure

1. The spectrum analyzer's automatic bandwidth measurement function was used to perform the 99% occupied bandwidth and the 26 dB bandwidth measurement.
2. Set the RBW =1~5% of the anticipated OBW, and the VBW≥3 x RBW.
3. Set spectrum analyzer detection mode to peak, and the trace mode to max hold
4. Sweep = auto couple
5. Record the test plots and test results.

4.2.5 Deviation from Test Standard

No deviation.

4.2.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest channel frequencies individually.

4.2.7 Test Result

n260: Channel Bandwidth: 50MHz

Band	Component Carriers	Modulation	RB	Occupied Bandwidth (MHz)		
				Low channel	Middle channel	High Channel
n260	1CC	BPSK	Full RB	45.405	46.551	46.200
		QPSK	Full RB	45.309	45.166	45.260
		16QAM	Full RB	45.258	45.139	45.260
		64QAM	Full RB	45.273	45.205	45.027

Spectrum Plot of Worst Value	
BPSK-1CC	QPSK-1CC
	
16QAM-1CC	64QAM-1CC
	

n260: Channel Bandwidth: 100MHz

Band	Component Carriers	Modulation	RB	Occupied Bandwidth (MHz)		
				Low channel	Middle channel	High Channel
n260	1CC	BPSK	Full RB	90.028	90.423	90.033
		QPSK	Full RB	92.895	92.973	92.634
		16QAM	Full RB	92.696	92.884	92.556
		64QAM	Full RB	92.843	92.764	92.472

Spectrum Plot of Worst Value

BPSK-1CC

QPSK-1CC

16QAM-1CC

64QAM-1CC

n261: Channel Bandwidth: 50MHz

Band	Component Carriers	Modulation	RB	Occupied Bandwidth (MHz)		
				Low channel	Middle channel	High Channel
n261	1CC	BPSK	Full RB	45.760	45.774	45.501
		QPSK	Full RB	45.415	45.215	45.221
		16QAM	Full RB	45.237	45.220	45.262
		64QAM	Full RB	45.221	45.212	45.095

Spectrum Plot of Worst Value	
BPSK-1CC	QPSK-1CC
	
16QAM-1CC	64QAM-1CC
	

n261: Channel Bandwidth: 100MHz

Band	Component Carriers	Modulation	RB	Occupied Bandwidth (MHz)		
				Low channel	Middle channel	High Channel
n261	1CC	BPSK	Full RB	90.177	89.648	90.502
		QPSK	Full RB	92.838	93.007	93.056
		16QAM	Full RB	92.692	92.478	93.088
		64QAM	Full RB	92.726	92.763	92.714

Spectrum Plot of Worst Value

BPSK-1CC

QPSK-1CC

16QAM-1CC

64QAM-1CC

4.3 Out-of-Band Spurious Emission Measurement

4.3.1 Limits of Out-of-Band Spurious Emission Measurement

The conducted power or the total radiated power of any emission outside a licensee's frequency block shall be −13 dBm/MHz or lower. However, in the bands immediately outside and adjacent to the licensee's frequency block, having a bandwidth equal to 10 percent of the channel bandwidth, the conducted power or the total radiated power of any emission shall be −5 dBm/MHz or lower.

4.3.2 Test Instruments

Refer to section 4.2.3 to get information of above instrument.

4.3.3 Test Procedures

The spectrum is scanned from 30MHz to 100GHz for n261 and for 30MHz to 200GHz for n260. All out of band emission are measured in a radiated test setup while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies. All modulations were invertigated to determine the worse case configuration. All modes of operation were investigated and the worse case configuration. All modes of operation were investigated and the worst case configuration results are reported in this section.

The conducted power or total radiated power of any emissions outside a licensee's frequency block shall be -13dBm/1MHz.

Test Procedures Used

ANSI C63.26-2015 Section 5.7.4
KDB 842590 D01 v01 Section 4.4.2 and Sectiom 4.4.3

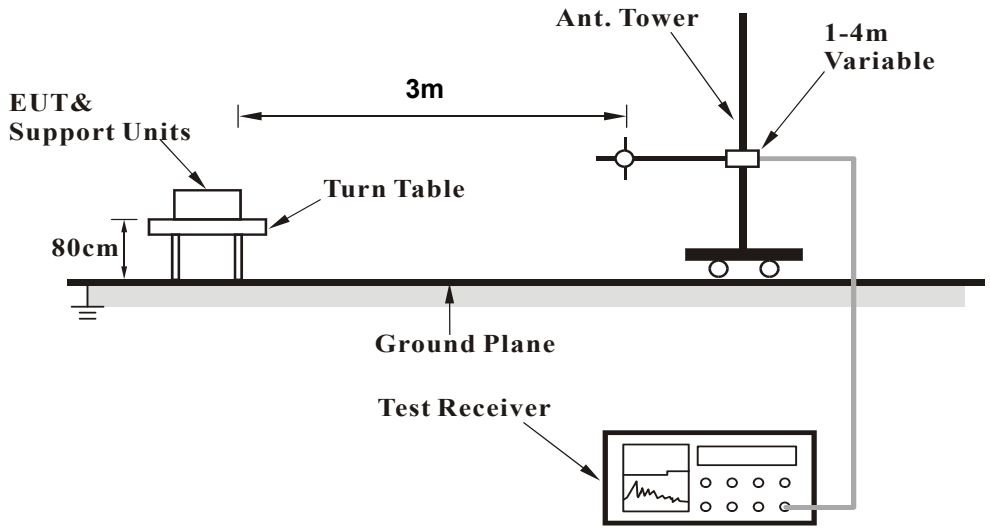
EUT antenna of far field distance		
Measurement Frequency range	Far Field calculation distance	Measurement Distance (Far field)
Below 18GHz	0.279m	3m
18GHz to 40GHz	0.621m	2m
40GHz to 170GHz	2.646m	3m
170GHz to 200GHz	3.104m	3.5m
Note: EUT Antenna Dimension is 48.25mm length.		
Measurement antenna of far field distance		
Measurement Frequency range	Far Field calculation distance	Measurement Distance (Far field)
40GHz-50GHz	30mm	1m
50GHz-75GHz	25mm	1m
75GHz-110GHz	18mm	1m
110GHz-170GHz	12mm	1m
170GHz-200GHz	8mm	1m

4.3.4 Deviation from Test Standard

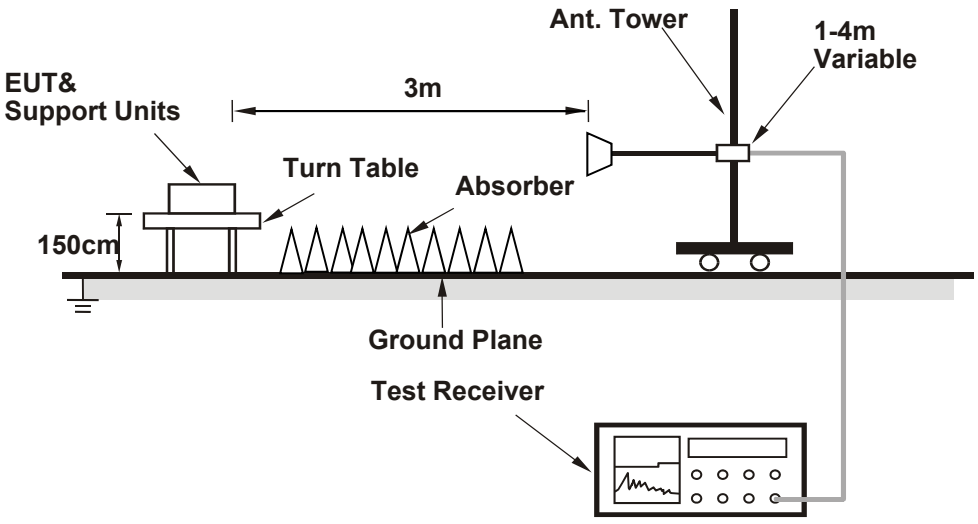
No deviation.

4.3.5 Test Set Up

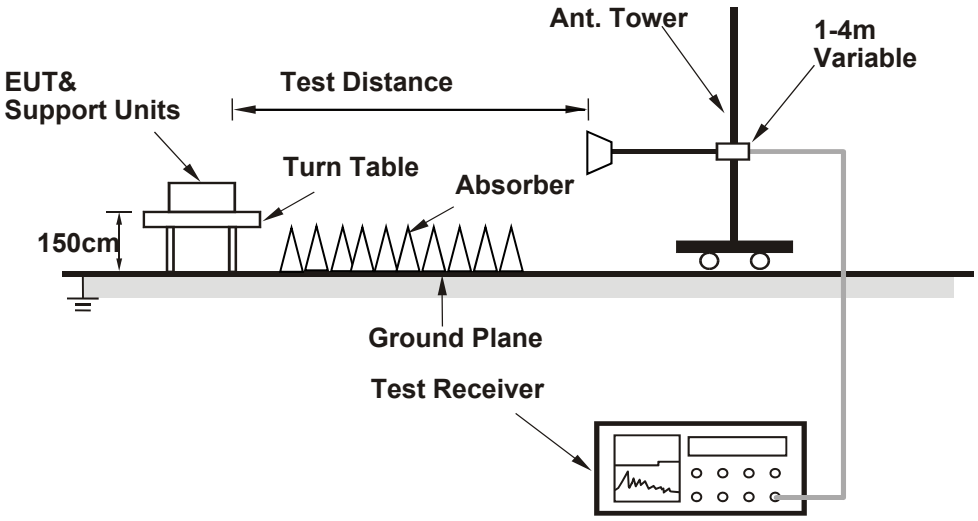
<Frequency Range below 1GHz>



<Frequency Range 1GHz ~ 18GHz>



<Frequency Range above 18GHz>



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.3.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest, middle and highest channel frequencies individually.

4.3.7 Test Result

n260:

Bandwidth: 50MHz

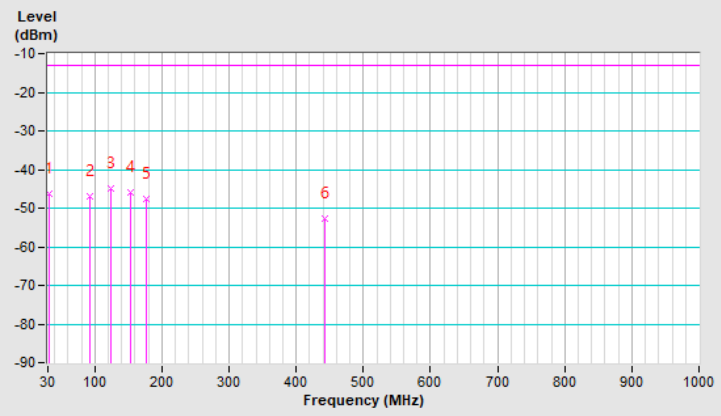
Below 1GHz Data:

Beam ID	147	Frequency Range	Below 1000 MHz
Channel	Low	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-46.30	-13.00	-33.30	2.00 H	161	68.80	-115.10
2	91.86	-46.80	-13.00	-33.80	2.00 H	244	72.80	-119.60
3	124.19	-45.00	-13.00	-32.00	1.50 H	90	70.40	-115.40
4	152.30	-46.00	-13.00	-33.00	2.00 H	250	67.30	-113.30
5	176.20	-47.60	-13.00	-34.60	1.00 H	324	66.90	-114.50
6	441.90	-52.60	-13.00	-39.60	2.00 H	220	56.50	-109.10

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

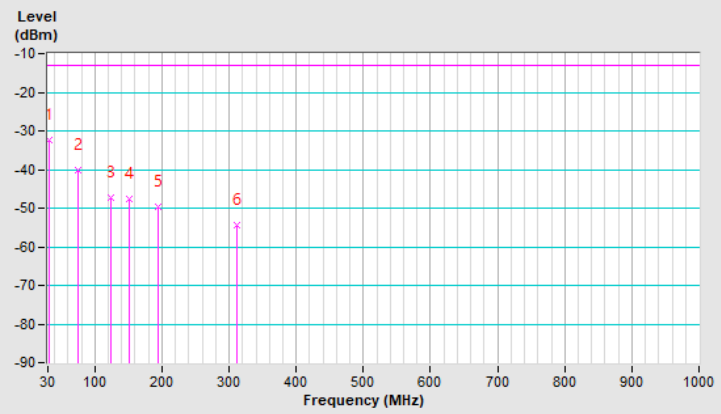


Beam ID	19	Frequency Range	Below 1000 MHz
Channel	Low	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-32.40	-13.00	-19.40	1.00 V	132	82.70	-115.10
2	74.99	-40.10	-13.00	-27.10	1.00 V	64	77.40	-117.50
3	124.19	-47.30	-13.00	-34.30	1.00 V	245	68.10	-115.40
4	150.90	-47.60	-13.00	-34.60	1.50 V	254	65.70	-113.30
5	194.48	-49.50	-13.00	-36.50	1.00 V	186	67.30	-116.80
6	311.16	-54.40	-13.00	-41.40	1.50 V	272	58.20	-112.60

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

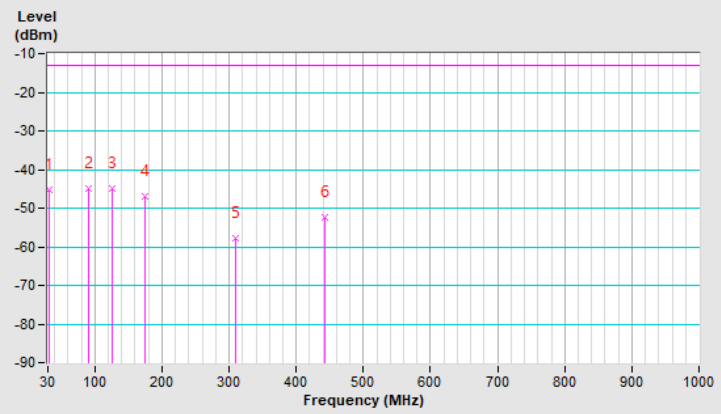


Beam ID	147	Frequency Range	Below 1000 MHz
Channel	Mid	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-45.10	-13.00	-32.10	2.00 H	152	70.00	-115.10
2	90.45	-44.90	-13.00	-31.90	2.00 H	127	74.90	-119.80
3	125.59	-45.00	-13.00	-32.00	1.00 H	109	70.20	-115.20
4	174.80	-46.90	-13.00	-33.90	1.00 H	169	67.40	-114.30
5	309.75	-57.70	-13.00	-44.70	2.00 H	68	55.00	-112.70
6	441.90	-52.50	-13.00	-39.50	2.00 H	224	56.60	-109.10

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

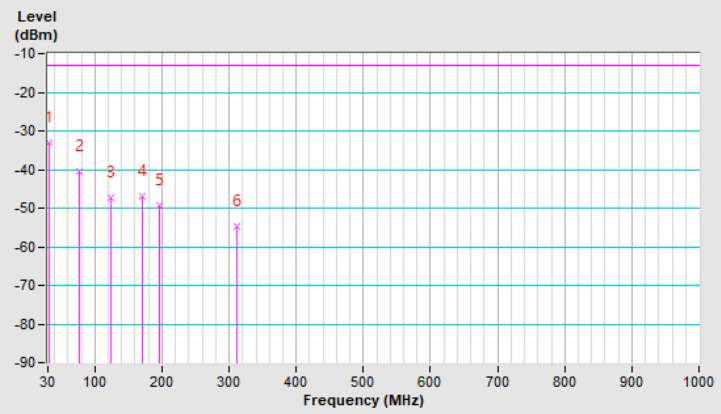


Beam ID	19	Frequency Range	Below 1000 MHz
Channel	Mid	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-33.00	-13.00	-20.00	1.00 V	18	82.10	-115.10
2	77.80	-40.40	-13.00	-27.40	1.00 V	17	77.90	-118.30
3	124.19	-47.40	-13.00	-34.40	1.50 V	272	68.00	-115.40
4	170.58	-46.90	-13.00	-33.90	1.50 V	18	67.00	-113.90
5	195.88	-49.30	-13.00	-36.30	1.00 V	192	67.70	-117.00
6	311.16	-54.60	-13.00	-41.60	1.00 V	261	58.00	-112.60

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

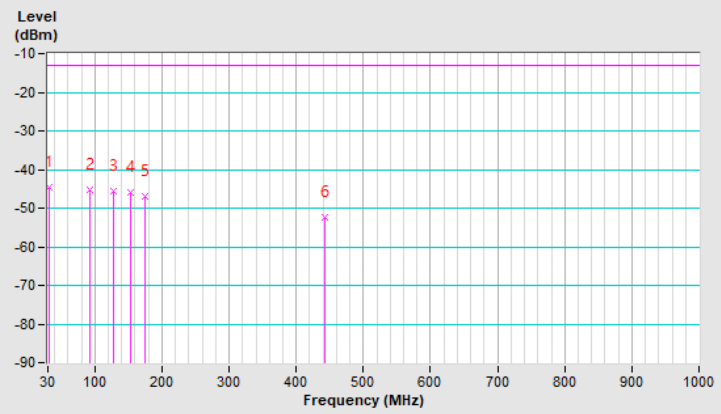


Beam ID	147	Frequency Range	Below 1000 MHz
Channel	High	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-44.60	-13.00	-31.60	2.00 H	186	70.50	-115.10
2	93.26	-45.20	-13.00	-32.20	1.50 H	289	74.40	-119.60
3	127.00	-45.50	-13.00	-32.50	2.00 H	272	69.70	-115.20
4	153.71	-46.00	-13.00	-33.00	2.00 H	256	67.20	-113.20
5	174.80	-46.80	-13.00	-33.80	1.00 H	151	67.50	-114.30
6	441.90	-52.50	-13.00	-39.50	2.00 H	222	56.60	-109.10

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

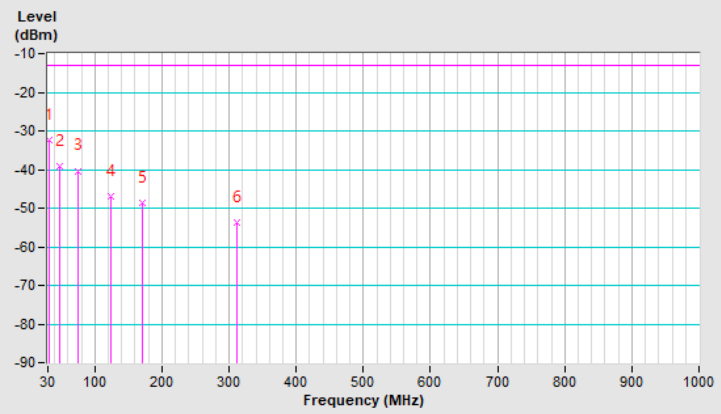


Beam ID	19	Frequency Range	Below 1000 MHz
Channel	High	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-32.50	-13.00	-19.50	1.00 V	175	82.60	-115.10
2	46.87	-39.20	-13.00	-26.20	1.00 V	207	74.70	-113.90
3	74.99	-40.30	-13.00	-27.30	1.00 V	2	77.20	-117.50
4	124.19	-47.10	-13.00	-34.10	1.50 V	238	68.30	-115.40
5	170.58	-48.60	-13.00	-35.60	1.00 V	70	65.30	-113.90
6	311.16	-53.70	-13.00	-40.70	1.50 V	262	58.90	-112.60

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.



Above 1GHz Data:

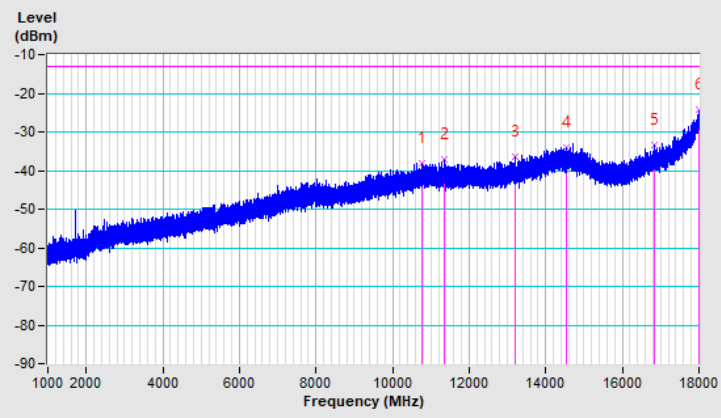
1GHz ~ 18GHz:

Beam ID	147	Frequency Range	1GHz ~ 18GHz
Channel	Low	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	10760.12	-38.00	-13.00	-25.00	2.00 H	48	48.00	-86.00
2	11356.83	-37.20	-13.00	-24.20	1.50 H	118	49.00	-86.20
3	13199.62	-36.50	-13.00	-23.50	1.50 H	165	50.20	-86.70
4	14532.42	-34.10	-13.00	-21.10	2.00 H	234	51.20	-85.30
5	16832.95	-33.50	-13.00	-20.50	1.00 H	90	52.80	-86.30
6	17992.35	-24.40	-13.00	-11.40	2.00 H	89	54.10	-78.50

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

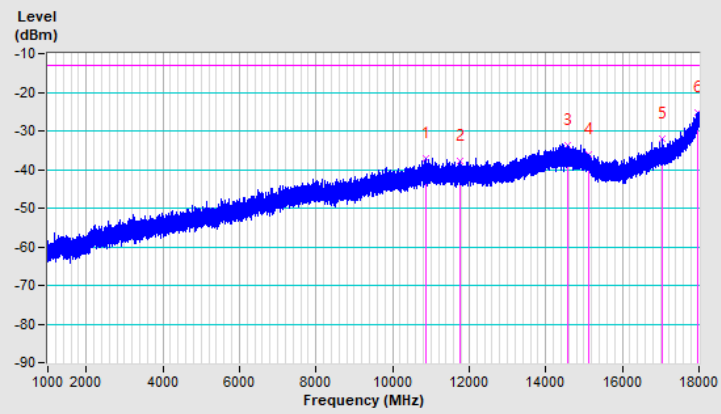


Beam ID	19	Frequency Range	1GHz ~ 18GHz
Channel	Low	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	10874.02	-37.20	-13.00	-24.20	2.00 V	233	48.60	-85.80
2	11757.17	-37.70	-13.00	-24.70	2.00 V	114	49.10	-86.80
3	14585.55	-33.70	-13.00	-20.70	1.50 V	269	51.80	-85.50
4	15107.87	-36.20	-13.00	-23.20	2.00 V	11	51.10	-87.30
5	17024.62	-32.00	-13.00	-19.00	1.50 V	177	54.10	-86.10
6	17963.03	-25.20	-13.00	-12.20	1.50 V	35	54.00	-79.20

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

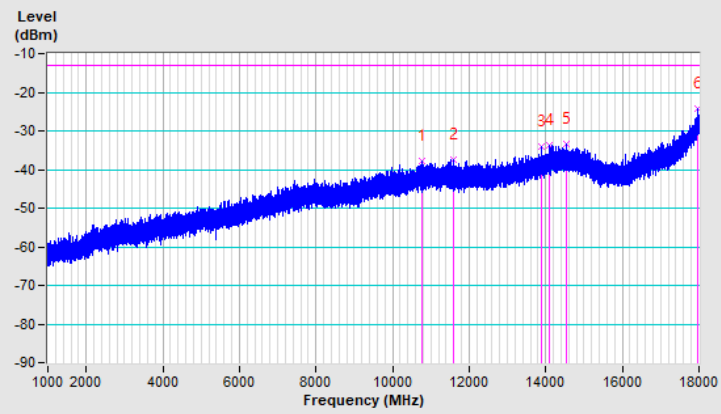


Beam ID	147	Frequency Range	1GHz ~ 18GHz
Channel	Mid	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	10777.98	-37.90	-13.00	-24.90	1.50 H	15	48.00	-85.90
2	11595.25	-37.40	-13.00	-24.40	2.00 H	354	48.90	-86.30
3	13875.37	-34.00	-13.00	-21.00	2.00 H	191	52.10	-86.10
4	14090.85	-33.70	-13.00	-20.70	2.00 H	243	52.10	-85.80
5	14526.90	-33.50	-13.00	-20.50	1.50 H	244	51.80	-85.30
6	17969.40	-24.30	-13.00	-11.30	2.00 H	160	54.80	-79.10

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

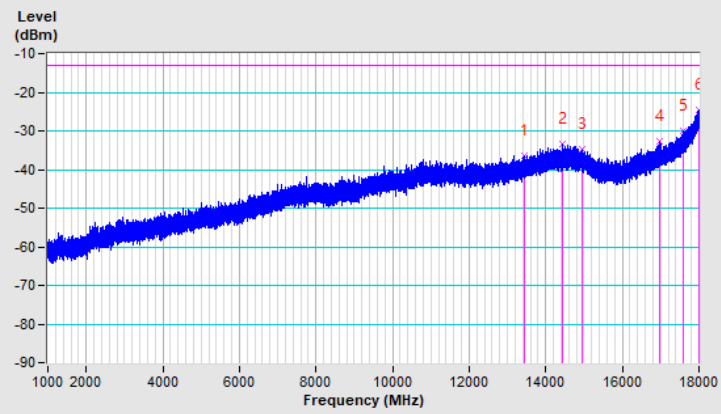


Beam ID	19	Frequency Range	1GHz ~ 18GHz
Channel	Mid	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	13429.55	-36.40	-13.00	-23.40	1.50 V	15	49.70	-86.10
2	14433.40	-33.40	-13.00	-20.40	2.00 V	214	51.90	-85.30
3	14960.83	-34.70	-13.00	-21.70	1.50 V	193	52.00	-86.70
4	16981.28	-32.60	-13.00	-19.60	2.00 V	175	53.50	-86.10
5	17583.08	-29.90	-13.00	-16.90	2.00 V	222	54.00	-83.90
6	17984.70	-24.60	-13.00	-11.60	1.50 V	177	54.10	-78.70

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

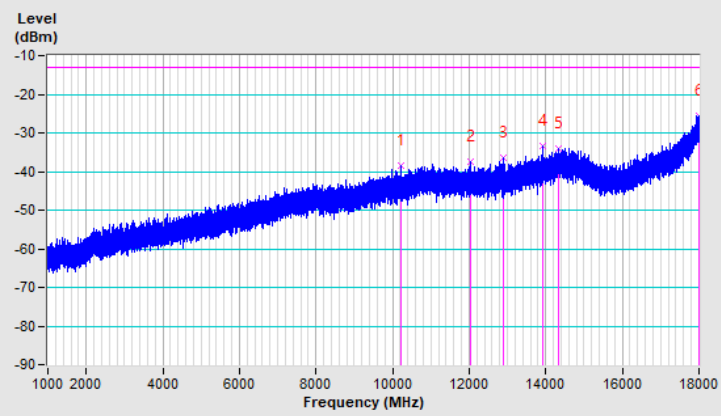


Beam ID	147	Frequency Range	1GHz ~ 18GHz
Channel	High	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	10236.10	-38.50	-13.00	-25.50	1.00 H	201	48.50	-87.00
2	12045.33	-37.60	-13.00	-24.60	1.50 H	270	48.90	-86.50
3	12891.92	-36.40	-13.00	-23.40	2.00 H	60	50.30	-86.70
4	13928.92	-33.40	-13.00	-20.40	2.00 H	173	52.50	-85.90
5	14316.52	-33.90	-13.00	-20.90	2.00 H	58	51.30	-85.20
6	17994.47	-25.60	-13.00	-12.60	1.50 H	211	52.90	-78.50

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

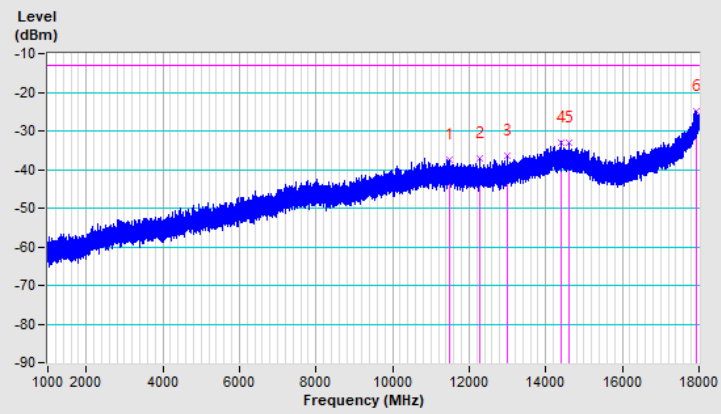


Beam ID	19	Frequency Range	1GHz ~ 18GHz
Channel	High	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	11491.55	-37.60	-13.00	-24.60	1.50 V	197	48.30	-85.90
2	12291.40	-37.00	-13.00	-24.00	2.00 V	201	49.80	-86.80
3	12999.02	-36.30	-13.00	-23.30	2.00 V	353	50.60	-86.90
4	14399.83	-32.90	-13.00	-19.90	2.00 V	23	52.40	-85.30
5	14598.30	-33.10	-13.00	-20.10	1.50 V	174	52.40	-85.50
6	17930.72	-24.90	-13.00	-11.90	2.00 V	99	55.10	-80.00

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.



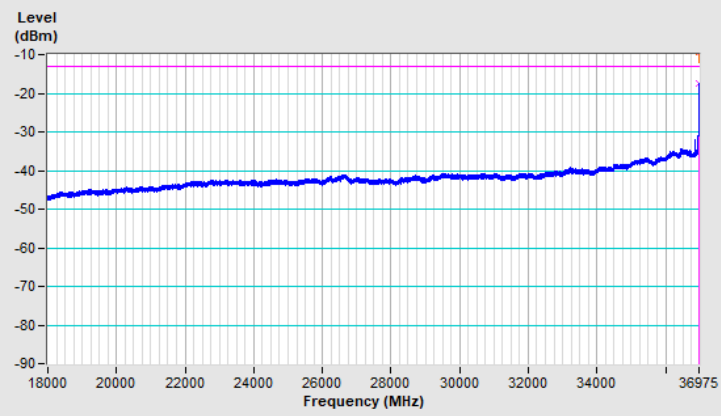
18GHz ~ 36.975GHz:

Beam ID	147	Frequency Range	18GHz ~ 36.975GHz
Channel	Low	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	36975.00	-17.48	-13.00	-4.48	1.40 H	236	78.22	-95.70

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

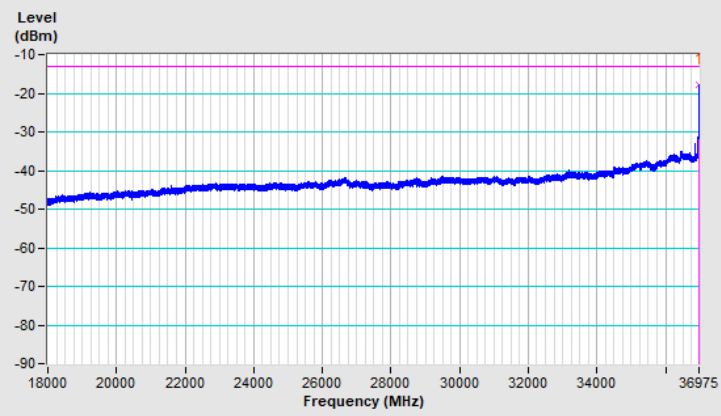


Beam ID	19	Frequency Range	18GHz ~ 36.975GHz
Channel	Low	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	36974.53	-17.75	-13.00	-4.75	1.77 V	185	77.95	-95.70

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

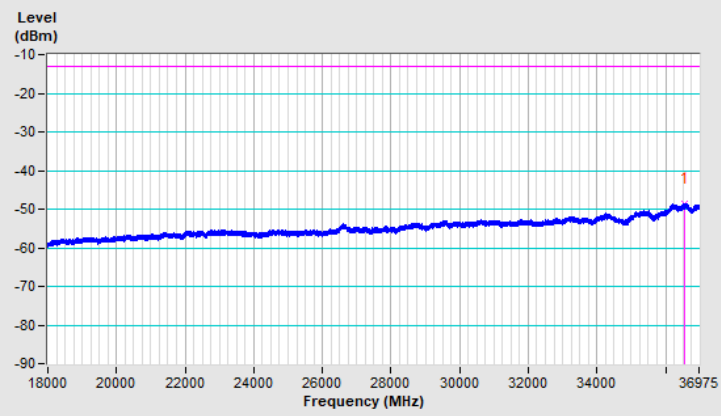


Beam ID	147	Frequency Range	18GHz ~ 36.975GHz
Channel	Mid	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	36557.08	-48.68	-13.00	-35.68	1.43 H	199	47.18	-95.86

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

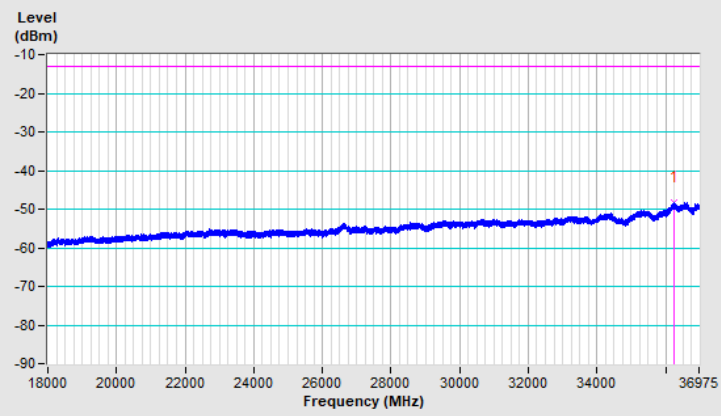


Beam ID	19	Frequency Range	18GHz ~ 36.975GHz
Channel	Mid	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	36231.18	-48.38	-13.00	-35.38	1.58 V	186	47.71	-96.09

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

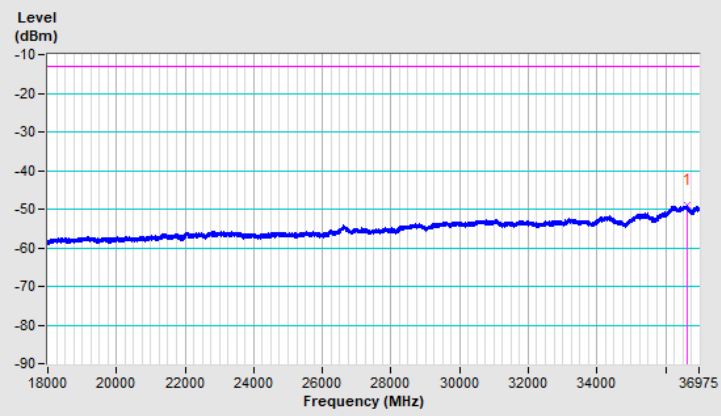


Beam ID	147	Frequency Range	18GHz ~ 36.975GHz
Channel	High	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	36617.80	-48.96	-13.00	-35.96	1.71 H	226	46.90	-95.86

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

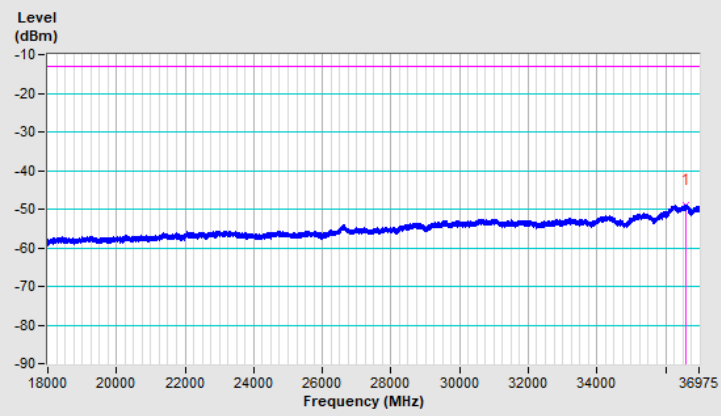


Beam ID	19	Frequency Range	18GHz ~ 36.975GHz
Channel	High	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	36601.67	-48.96	-13.00	-35.96	1.40 V	211	46.82	-95.78

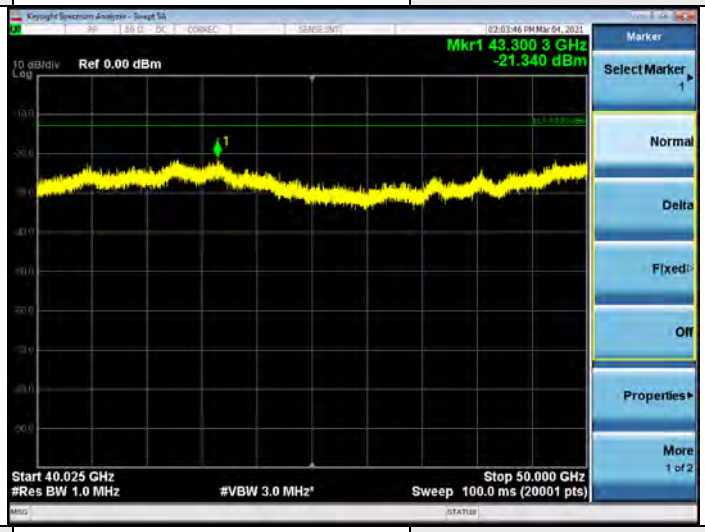
Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

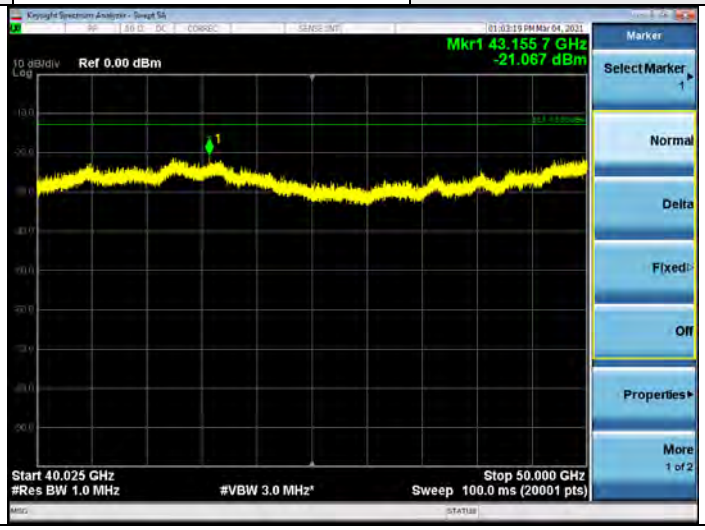


40.025GHz ~ 50GHz:

Band	n260	Beam ID	147
Frequency Range	40.025GHz-50GHz	Channel	Low
Antenna polarity	Horizontal	Test distance	3m

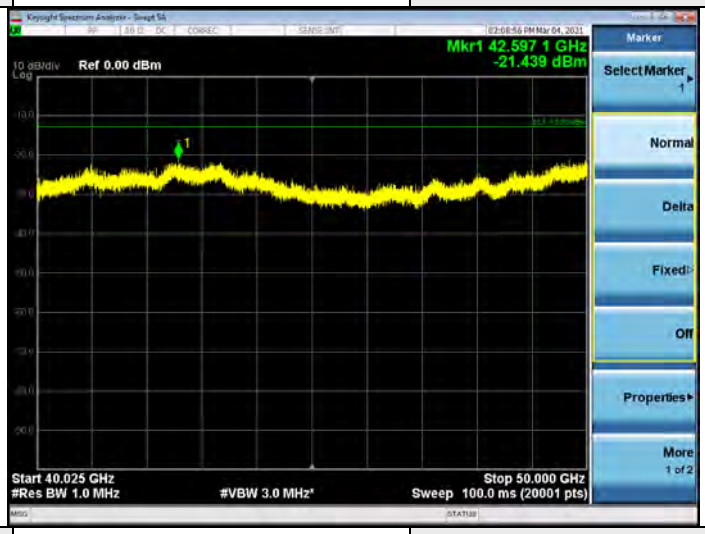


Band	n260	Beam ID	19
Frequency Range	40.025GHz-50GHz	Channel	Low
Antenna polarity	Vertical	Test distance	3m

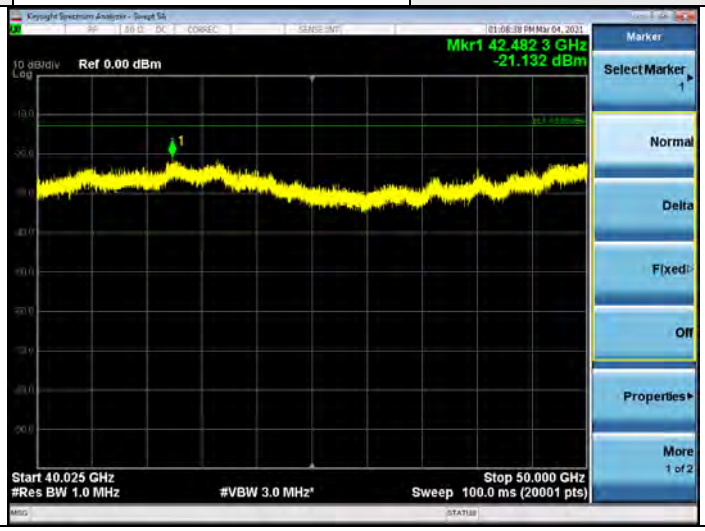


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.

Band	n260	Beam ID	147
Frequency Range	40.025GHz-50GHz	Channel	Middle
Antenna polarity	Horizontal	Test distance	3m

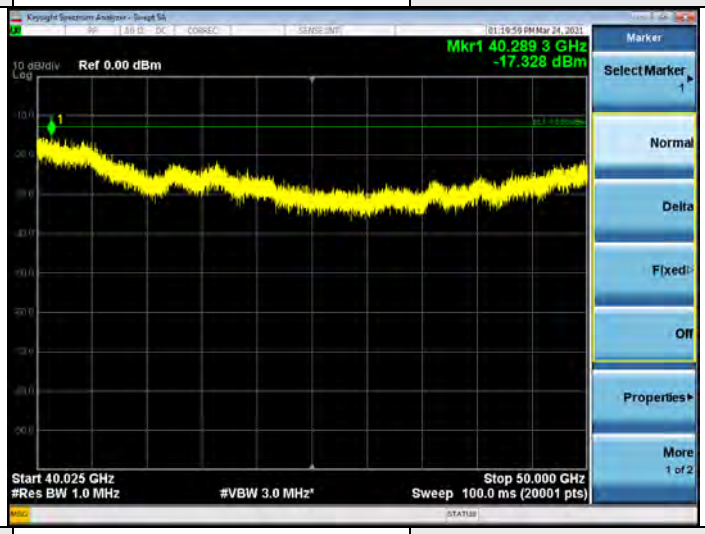


Band	n260	Beam ID	19
Frequency Range	40.025GHz-50GHz	Channel	Middle
Antenna polarity	Vertical	Test distance	3m

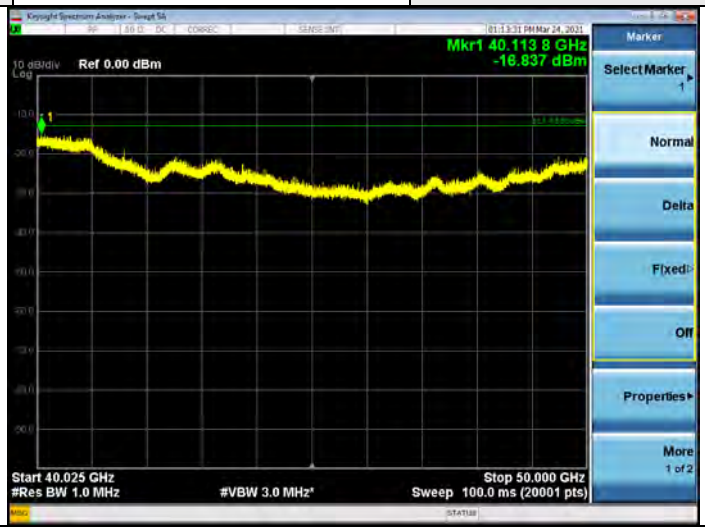


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.

Band	n260	Beam ID	147
Frequency Range	40.025GHz-50GHz	Channel	High
Antenna polarity	Horizontal	Test distance	3m



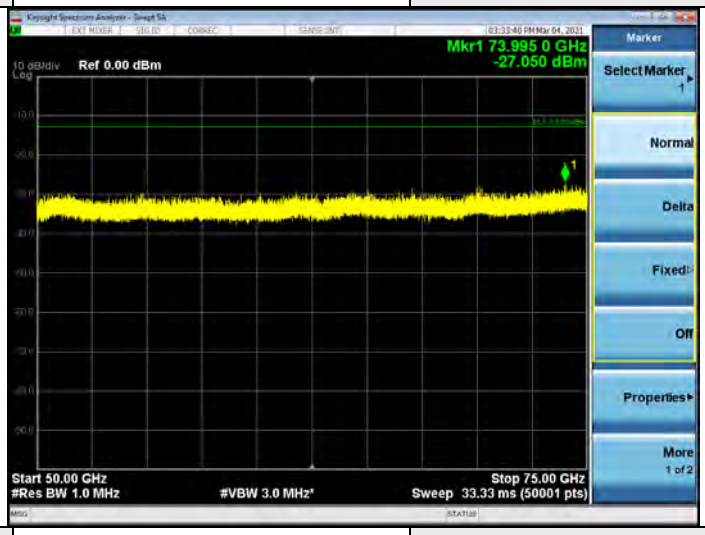
Band	n260	Beam ID	19
Frequency Range	40.025GHz-50GHz	Channel	High
Antenna polarity	Vertical	Test distance	3m



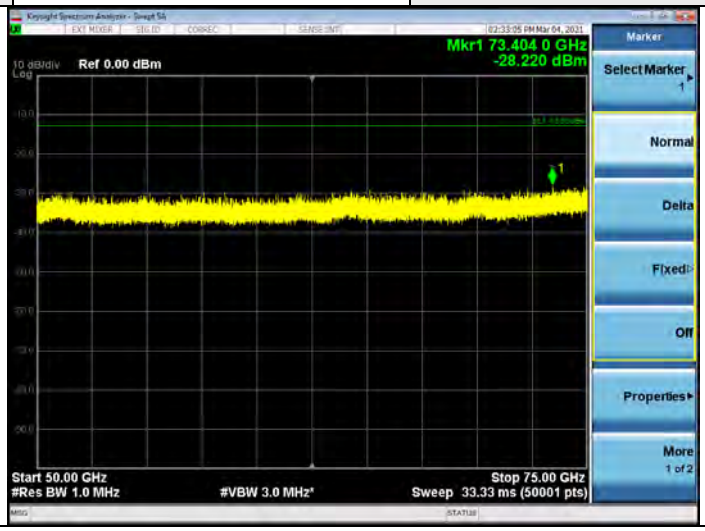
Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.

50GHz ~ 75GHz:

Band	n260	Beam ID	147
Frequency Range	50GHz-75GHz	Channel	Low
Antenna polarity	Horizontal	Test distance	3m

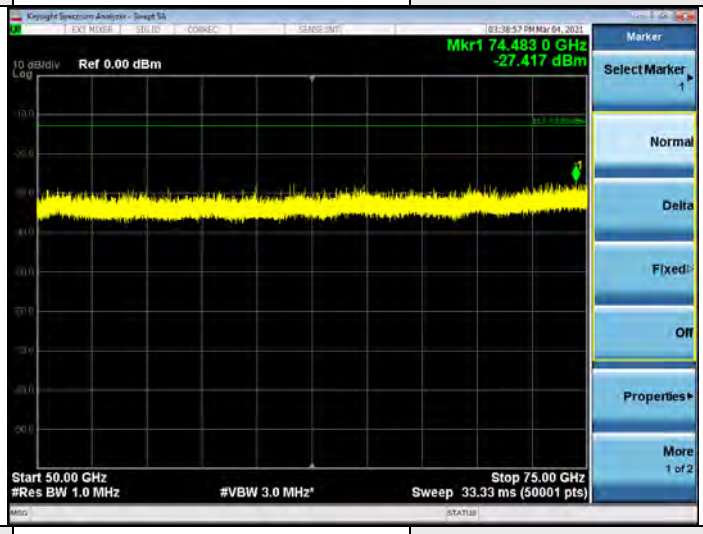


Band	n260	Beam ID	19
Frequency Range	50GHz-75GHz	Channel	Low
Antenna polarity	Vertical	Test distance	3m

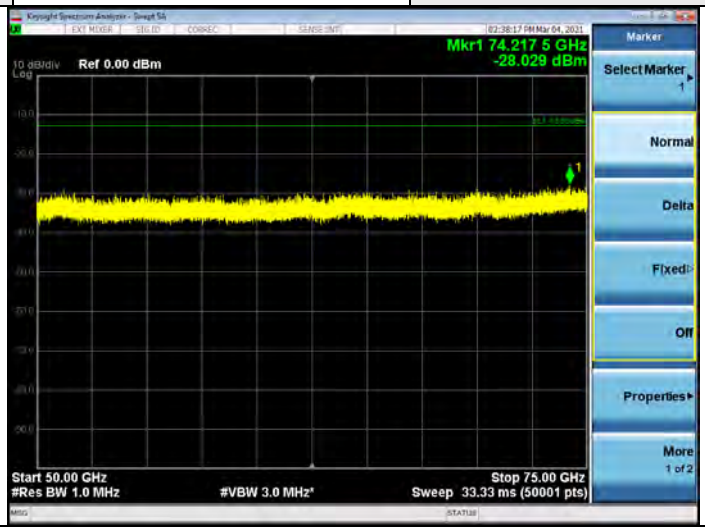


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n260	Beam ID	147
Frequency Range	50GHz-75GHz	Channel	Middle
Antenna polarity	Horizontal	Test distance	3m

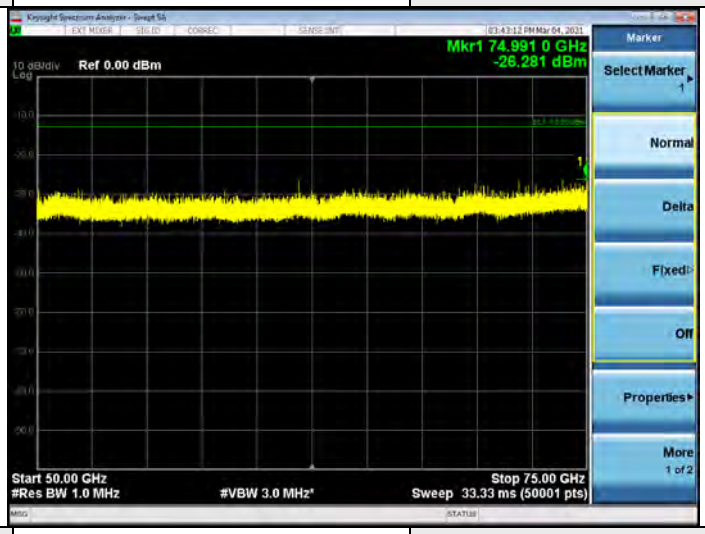


Band	n260	Beam ID	19
Frequency Range	50GHz-75GHz	Channel	Middle
Antenna polarity	Vertical	Test distance	3m

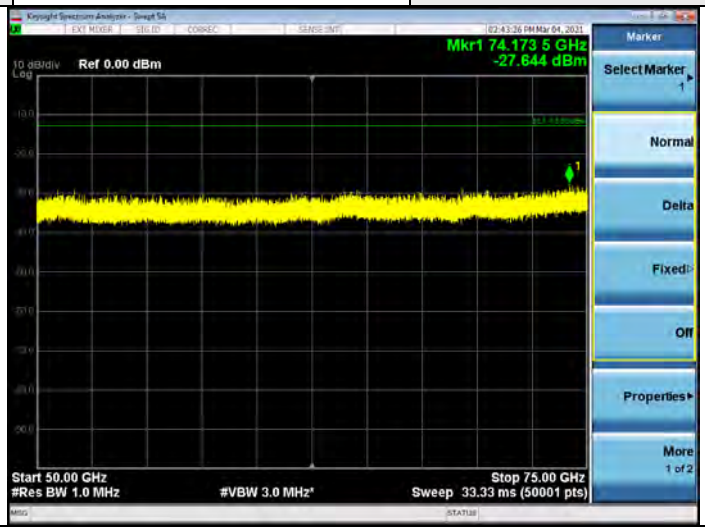


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n260	Beam ID	147
Frequency Range	50GHz-75GHz	Channel	High
Antenna polarity	Horizontal	Test distance	3m



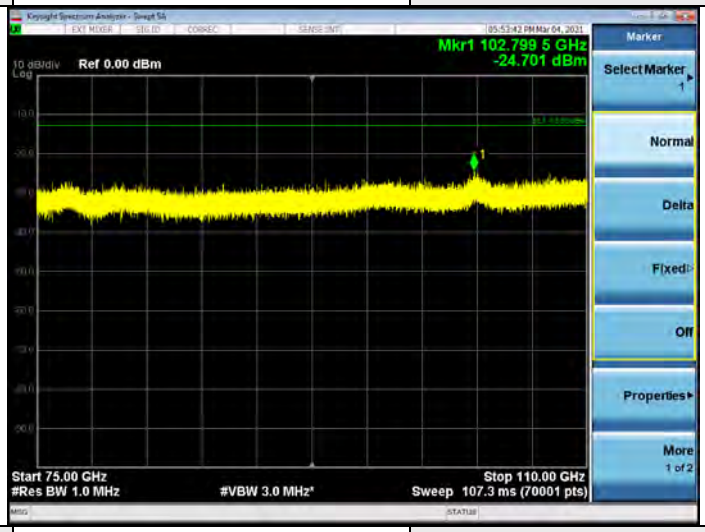
Band	n260	Beam ID	19
Frequency Range	50GHz-75GHz	Channel	High
Antenna polarity	Vertical	Test distance	3m



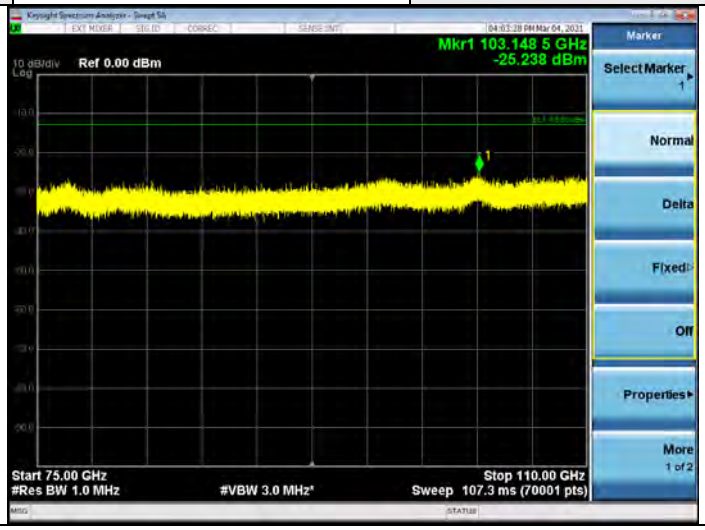
Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

75GHz ~ 110GHz:

Band	n260	Beam ID	147
Frequency Range	75GHz-110GHz	Channel	Low
Antenna polarity	Horizontal	Test distance	3m

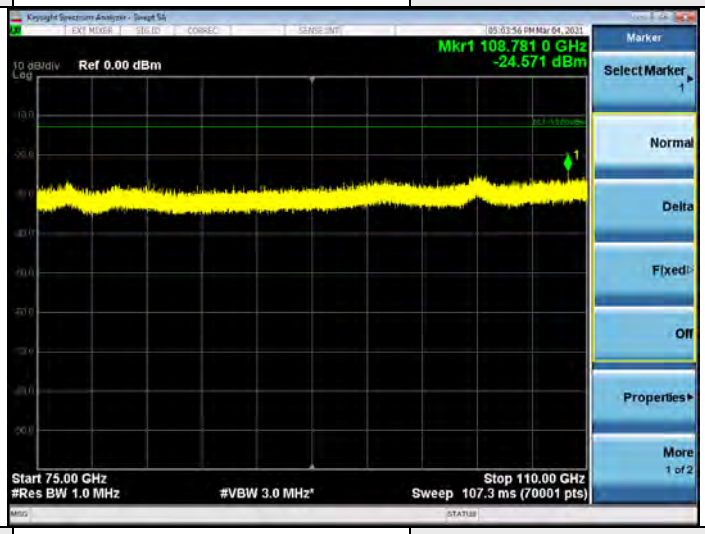


Band	n260	Beam ID	19
Frequency Range	75GHz-110GHz	Channel	Low
Antenna polarity	Vertical	Test distance	3m

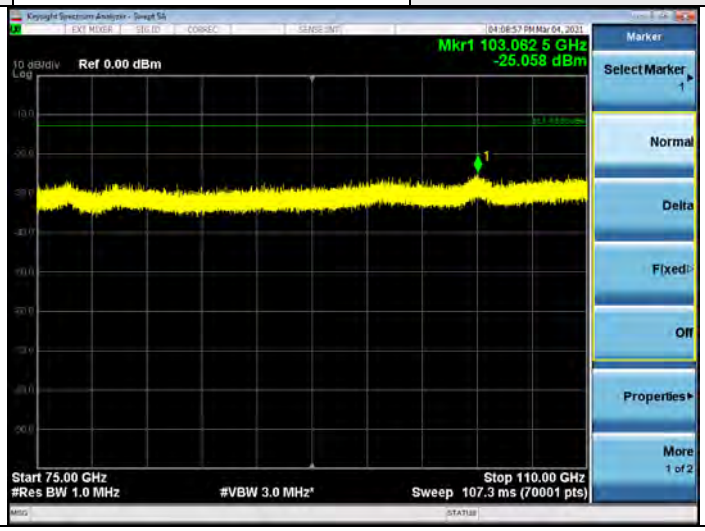


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n260	Beam ID	147
Frequency Range	75GHz-110GHz	Channel	Middle
Antenna polarity	Horizontal	Test distance	3m

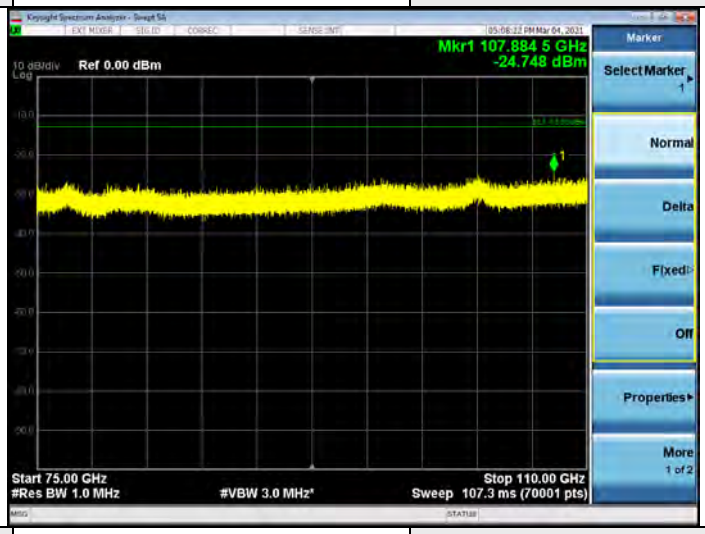


Band	n260	Beam ID	19
Frequency Range	75GHz-110GHz	Channel	Middle
Antenna polarity	Vertical	Test distance	3m

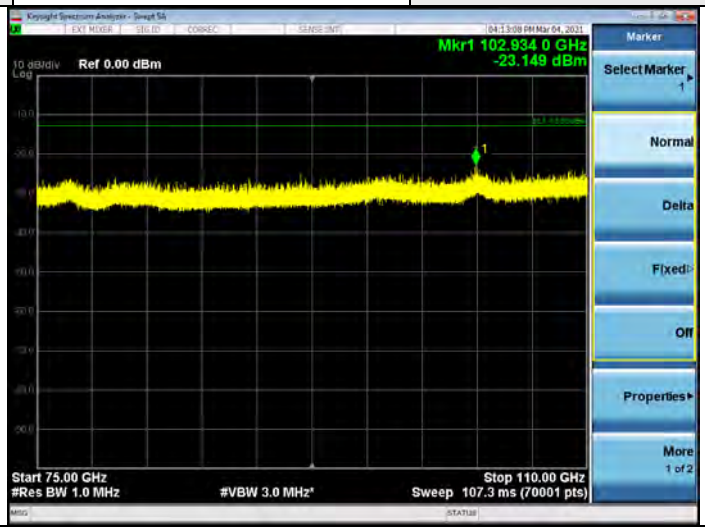


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n260	Beam ID	147
Frequency Range	75GHz-110GHz	Channel	High
Antenna polarity	Horizontal	Test distance	3m



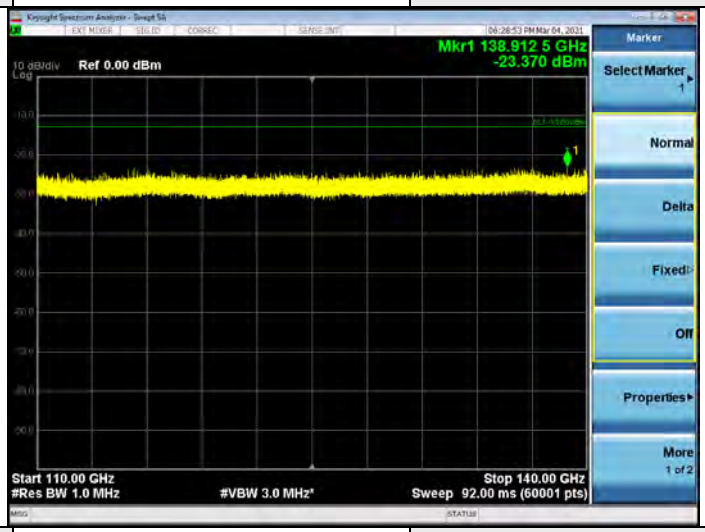
Band	n260	Beam ID	19
Frequency Range	75GHz-110GHz	Channel	High
Antenna polarity	Vertical	Test distance	3m



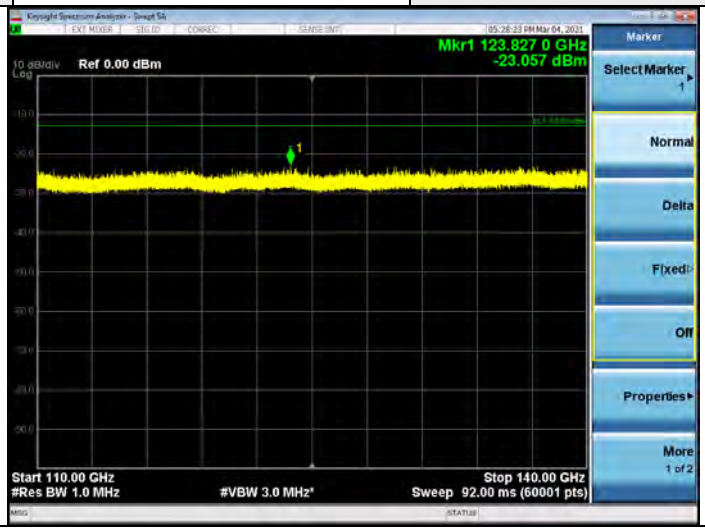
Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

110GHz ~ 140GHz:

Band	n260	Beam ID	147
Frequency Range	110GHz-140GHz	Channel	Low
Antenna polarity	Horizontal	Test distance	3m

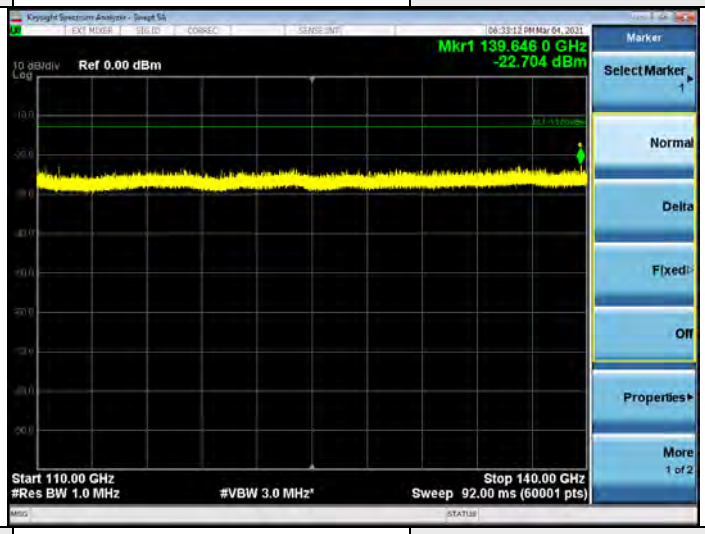


Band	n260	Beam ID	19
Frequency Range	110GHz-140GHz	Channel	Low
Antenna polarity	Vertical	Test distance	3m

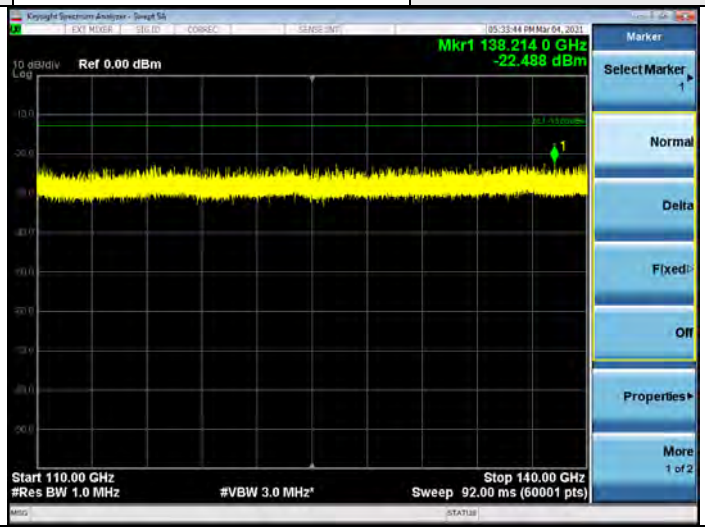


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n260	Beam ID	147
Frequency Range	110GHz-140GHz	Channel	Middle
Antenna polarity	Horizontal	Test distance	3m

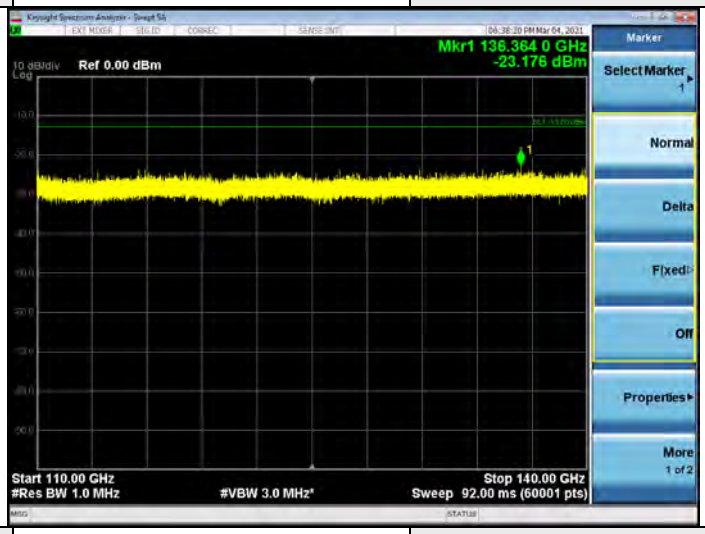


Band	n260	Beam ID	19
Frequency Range	110GHz-140GHz	Channel	Middle
Antenna polarity	Vertical	Test distance	3m

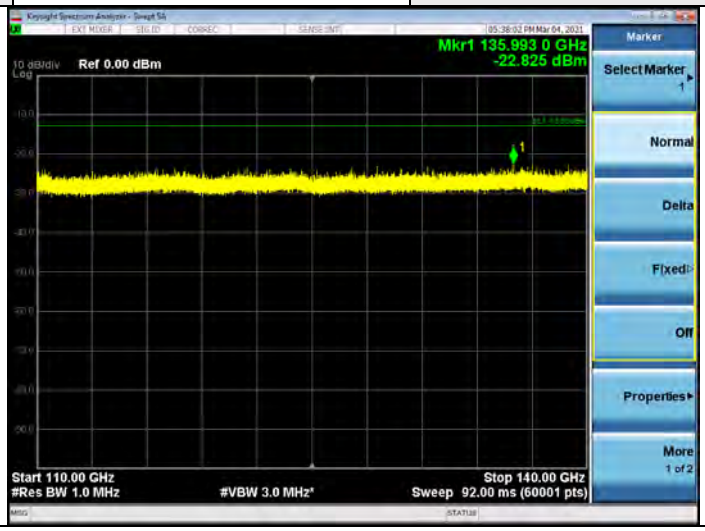


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n260	Beam ID	147
Frequency Range	110GHz-140GHz	Channel	High
Antenna polarity	Horizontal	Test distance	3m



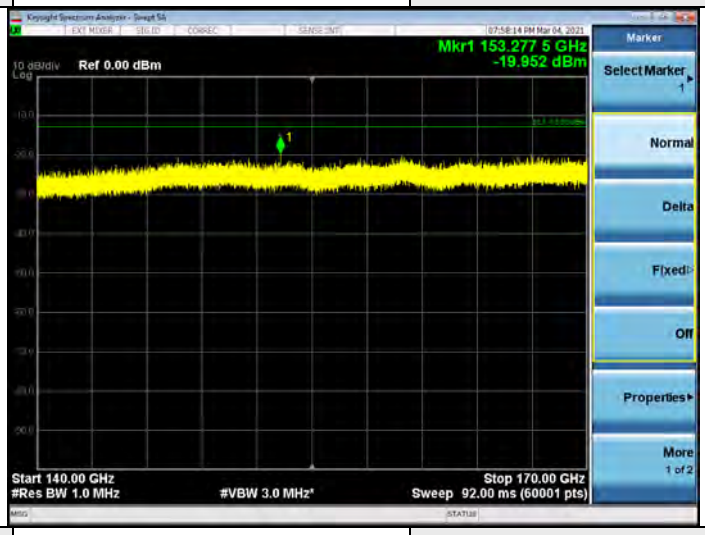
Band	n260	Beam ID	19
Frequency Range	110GHz-140GHz	Channel	High
Antenna polarity	Vertical	Test distance	3m



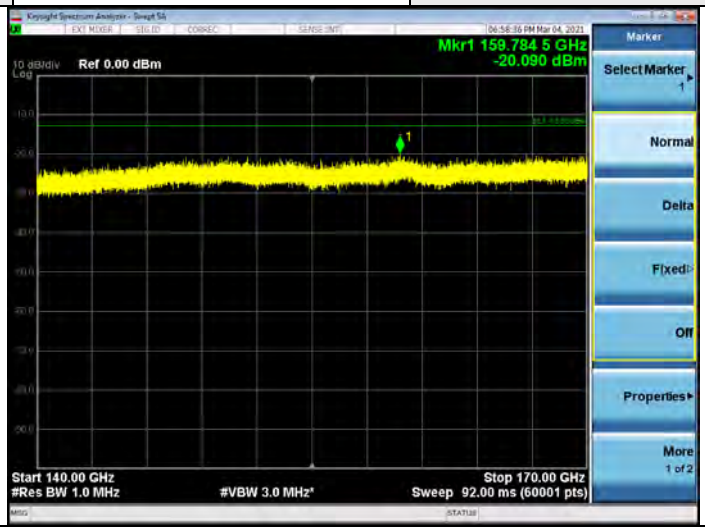
Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

140GHz ~ 170GHz:

Band	n260	Beam ID	147
Frequency Range	140GHz-170GHz	Channel	Low
Antenna polarity	Horizontal	Test distance	3m

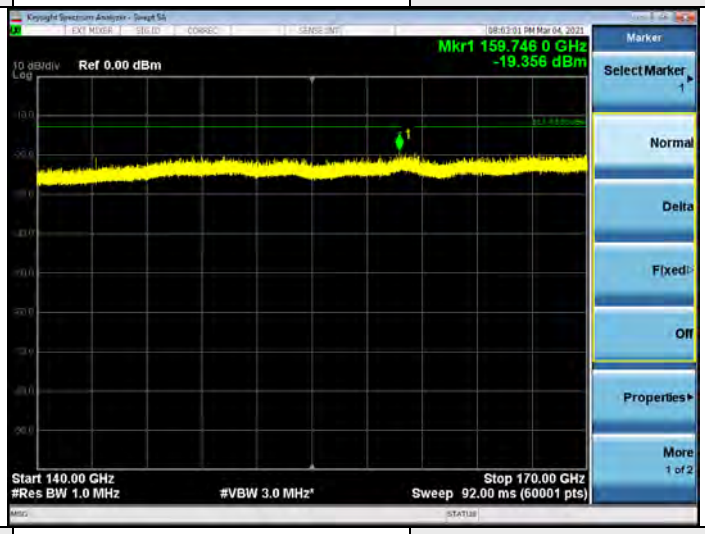


Band	n260	Beam ID	19
Frequency Range	140GHz-170GHz	Channel	Low
Antenna polarity	Vertical	Test distance	3m

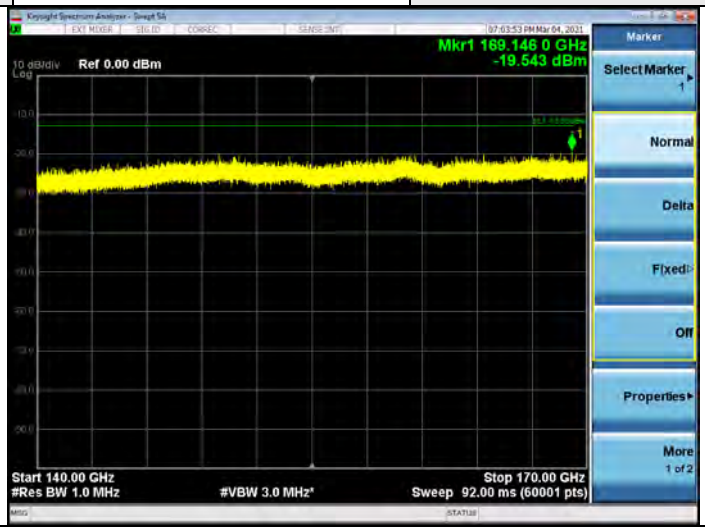


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n260	Beam ID	147
Frequency Range	140GHz-170GHz	Channel	Middle
Antenna polarity	Horizontal	Test distance	3m

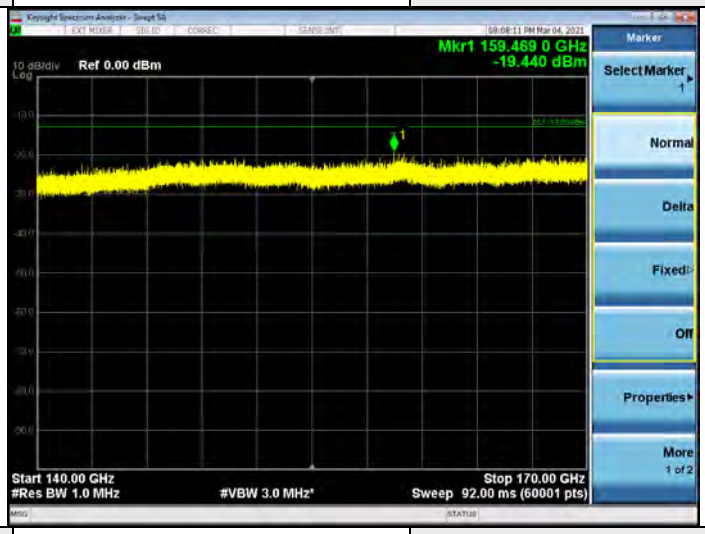


Band	n260	Beam ID	19
Frequency Range	140GHz-170GHz	Channel	Middle
Antenna polarity	Vertical	Test distance	3m

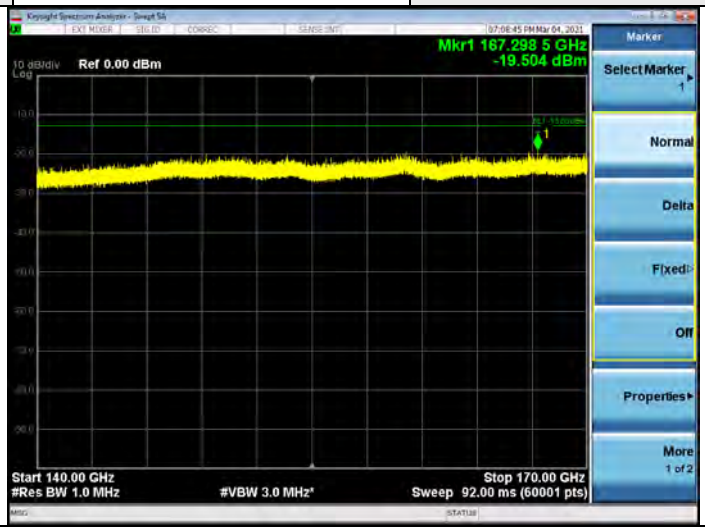


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n260	Beam ID	147
Frequency Range	140GHz-170GHz	Channel	High
Antenna polarity	Horizontal	Test distance	3m



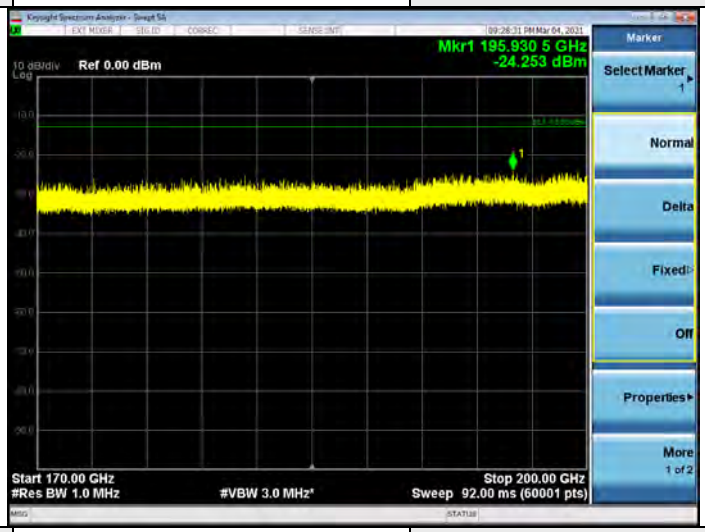
Band	n260	Beam ID	19
Frequency Range	140GHz-170GHz	Channel	High
Antenna polarity	Vertical	Test distance	3m



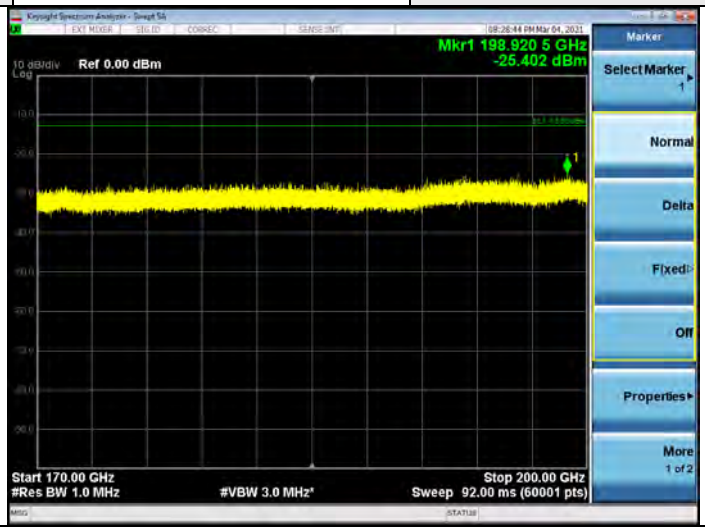
Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

170GHz ~ 200GHz:

Band	n260	Beam ID	147
Frequency Range	170GHz-200GHz	Channel	Low
Antenna polarity	Horizontal	Test distance	3.5m

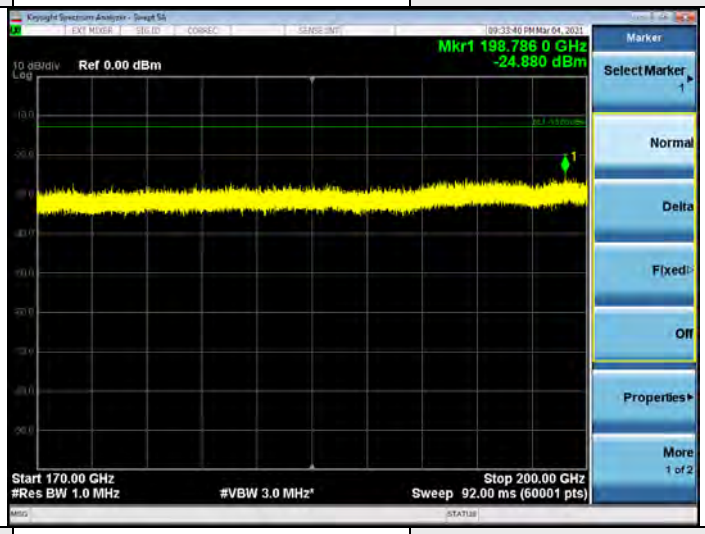


Band	n260	Beam ID	19
Frequency Range	170GHz-200GHz	Channel	Low
Antenna polarity	Vertical	Test distance	3.5m

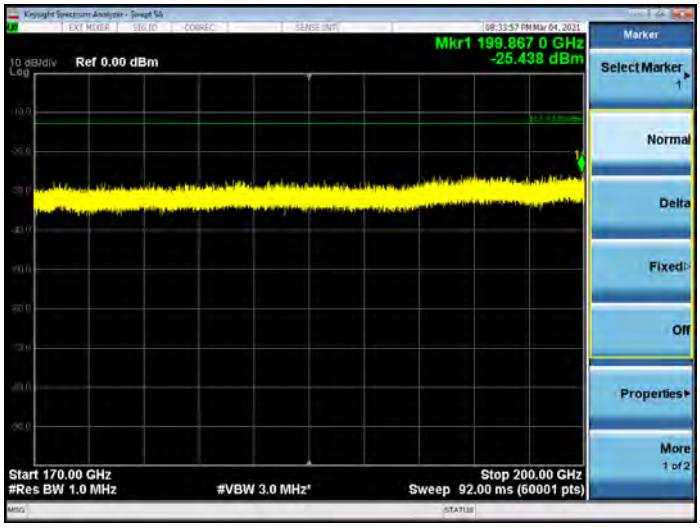


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n260	Beam ID	147
Frequency Range	170GHz-200GHz	Channel	Middle
Antenna polarity	Horizontal	Test distance	3.5m

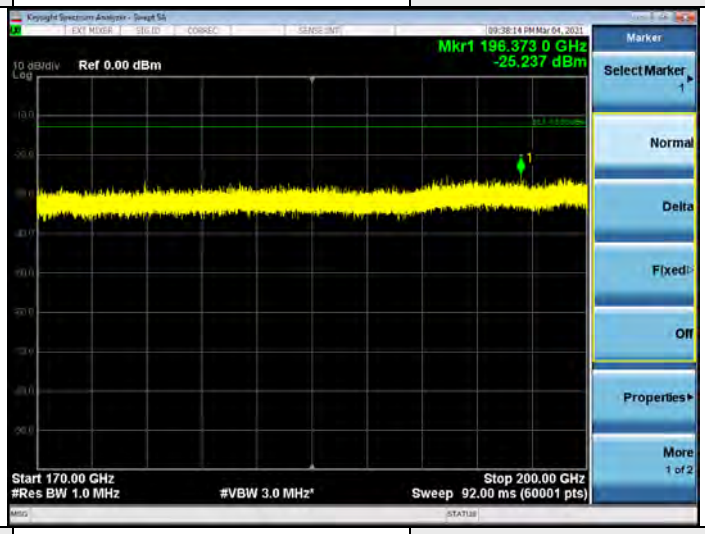


Band	n260	Beam ID	19
Frequency Range	170GHz-200GHz	Channel	Middle
Antenna polarity	Vertical	Test distance	3.5m

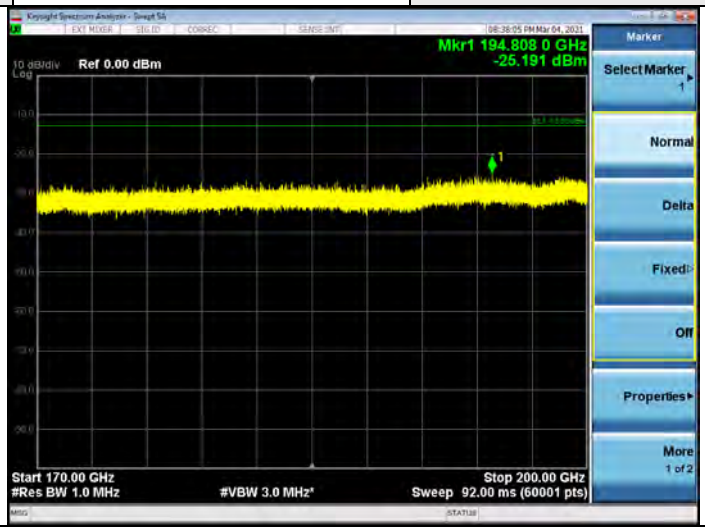


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n260	Beam ID	147
Frequency Range	170GHz-200GHz	Channel	High
Antenna polarity	Horizontal	Test distance	3.5m



Band	n260	Beam ID	19
Frequency Range	170GHz-200GHz	Channel	High
Antenna polarity	Vertical	Test distance	3.5m



Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Summary of MIMO Out-of-Band Spurious Emission EIRP:

To address compliance of MIMO spurious emission per KDB 662911 D01, the MIMO spurious emission EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm.

EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)						
Test Frequency Range	Channel	EIRP (H Beam)	EIRP (V Beam)	EIRP (MIMO)	Limit (dBm)	Margin (dB)
Below 1GHz	2229583	-45.00	-32.40	-32.17	-13	-19.17
	2259997	-44.90	-33.00	-32.73	-13	-19.73
	2278747	-44.60	-32.50	-32.24	-13	-19.24
1GHz to 18GHz	2229583	-24.40	-25.20	-21.77	-13	-8.77
	2259997	-24.30	-24.60	-21.44	-13	-8.44
	2278747	-25.60	-24.90	-22.23	-13	-9.23
18GHz to 36.975GHz	2229583	-17.48	-17.75	-14.60	-13	-1.60
	2259997	-48.68	-48.38	-45.52	-13	-32.52
	2278747	-48.96	-48.96	-45.95	-13	-32.95
40.025GHz to 50GHz	2229583	-21.34	-21.06	-18.19	-13	-5.19
	2259997	-21.43	-21.13	-18.27	-13	-5.27
	2278747	-17.32	-16.84	-14.06	-13	-1.06
50GHz to 75GHz	2229583	-27.05	-28.22	-24.59	-13	-11.59
	2259997	-27.41	-28.02	-24.69	-13	-11.69
	2278747	-26.28	-27.64	-23.90	-13	-10.90
75GHz to 110GHz	2229583	-24.70	-25.23	-21.95	-13	-8.95
	2259997	-24.57	-25.05	-21.79	-13	-8.79
	2278747	-24.74	-23.14	-20.86	-13	-7.86
110GHz to 140GHz	2229583	-23.37	-23.05	-20.20	-13	-7.20
	2259997	-22.70	-22.48	-19.58	-13	-6.58
	2278747	-23.17	-22.82	-19.98	-13	-6.98
140GHz to 170GHz	2229583	-19.95	-19.54	-16.73	-13	-3.73
	2259997	-19.35	-20.09	-16.69	-13	-3.69
	2278747	-19.44	-19.50	-16.46	-13	-3.46
170GHz to 200GHz	2229583	-24.25	-25.40	-21.78	-13	-8.78
	2259997	-24.88	-25.43	-22.14	-13	-9.14
	2278747	-25.23	-25.19	-22.20	-13	-9.20

n260:

Bandwidth: 100MHz

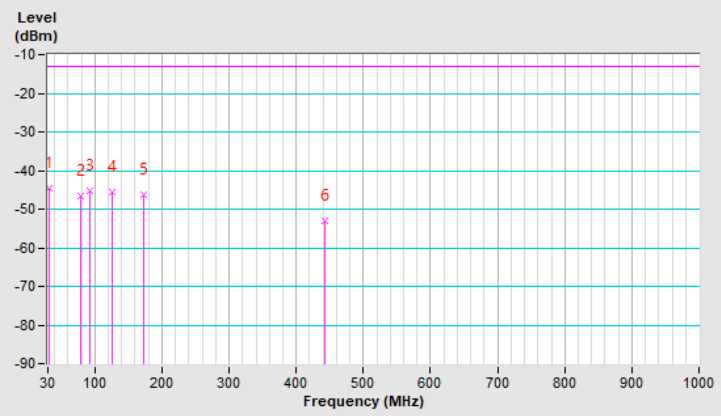
Below 1GHz Data:

Beam ID	147	Frequency Range	Below 1000 MHz
Channel	Low	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-44.60	-13.00	-31.60	2.00 H	183	70.50	-115.10
2	79.20	-46.60	-13.00	-33.60	1.50 H	118	72.00	-118.60
3	93.26	-45.30	-13.00	-32.30	2.00 H	137	74.30	-119.60
4	125.59	-45.60	-13.00	-32.60	1.50 H	108	69.60	-115.20
5	171.99	-46.30	-13.00	-33.30	1.00 H	168	67.70	-114.00
6	441.90	-53.10	-13.00	-40.10	2.00 H	224	56.00	-109.10

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

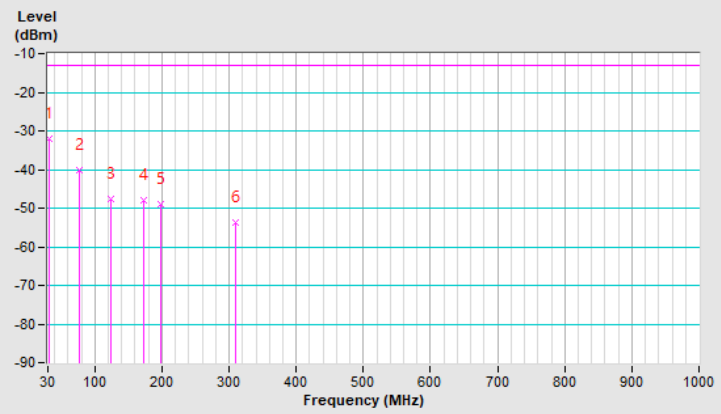


Beam ID	19	Frequency Range	Below 1000 MHz
Channel	Low	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-32.20	-13.00	-19.20	1.00 V	98	82.90	-115.10
2	76.39	-40.30	-13.00	-27.30	1.00 V	8	77.70	-118.00
3	124.19	-47.50	-13.00	-34.50	1.50 V	256	67.90	-115.40
4	173.39	-48.00	-13.00	-35.00	1.50 V	160	66.20	-114.20
5	197.29	-49.10	-13.00	-36.10	1.00 V	192	67.90	-117.00
6	309.75	-53.70	-13.00	-40.70	1.00 V	270	59.00	-112.70

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

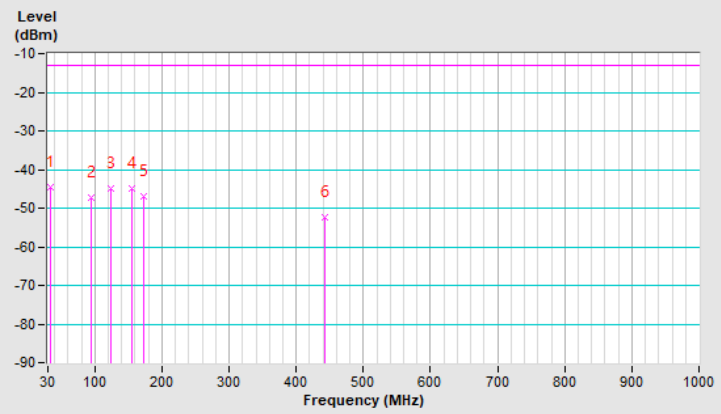


Beam ID	147	Frequency Range	Below 1000 MHz
Channel	Mid	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	34.22	-44.70	-13.00	-31.70	2.00 H	182	70.10	-114.80
2	94.67	-47.30	-13.00	-34.30	2.00 H	230	72.10	-119.40
3	124.19	-44.90	-13.00	-31.90	1.00 H	268	70.50	-115.40
4	155.12	-44.80	-13.00	-31.80	2.00 H	247	68.50	-113.30
5	171.99	-47.00	-13.00	-34.00	1.50 H	169	67.00	-114.00
6	441.90	-52.30	-13.00	-39.30	2.00 H	224	56.80	-109.10

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

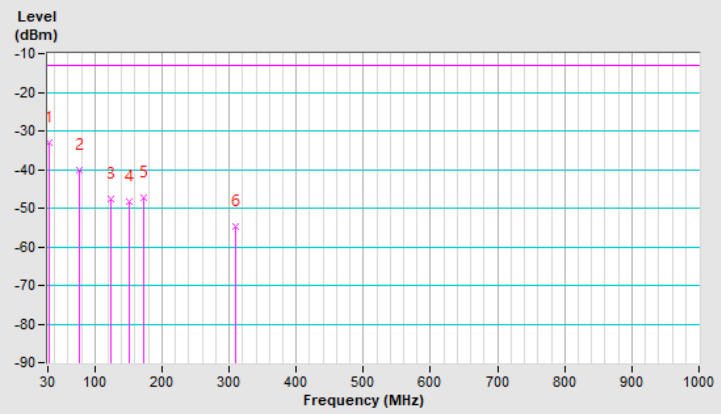


Beam ID	19	Frequency Range	Below 1000 MHz
Channel	Mid	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-33.10	-13.00	-20.10	1.00 V	126	82.00	-115.10
2	76.39	-40.10	-13.00	-27.10	1.00 V	6	77.90	-118.00
3	124.19	-47.50	-13.00	-34.50	1.50 V	258	67.90	-115.40
4	150.90	-48.20	-13.00	-35.20	1.00 V	264	65.10	-113.30
5	173.39	-47.40	-13.00	-34.40	1.00 V	224	66.80	-114.20
6	309.75	-54.90	-13.00	-41.90	1.50 V	287	57.80	-112.70

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

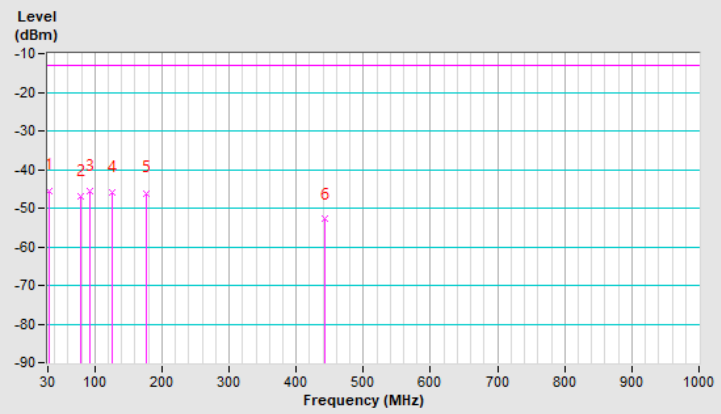


Beam ID	147	Frequency Range	Below 1000 MHz
Channel	High	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-45.40	-13.00	-32.40	2.00 H	110	69.70	-115.10
2	79.20	-47.00	-13.00	-34.00	1.50 H	118	71.60	-118.60
3	91.86	-45.70	-13.00	-32.70	1.00 H	80	73.90	-119.60
4	125.59	-45.80	-13.00	-32.80	2.00 H	122	69.40	-115.20
5	176.20	-46.10	-13.00	-33.10	2.00 H	165	68.40	-114.50
6	441.90	-52.90	-13.00	-39.90	2.00 H	229	56.20	-109.10

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

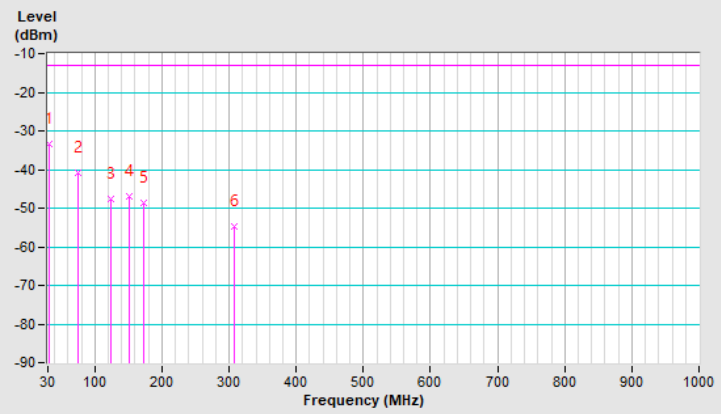


Beam ID	19	Frequency Range	Below 1000 MHz
Channel	High	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-33.40	-13.00	-20.40	1.00 V	83	81.70	-115.10
2	74.99	-40.80	-13.00	-27.80	1.00 V	18	76.70	-117.50
3	124.19	-47.70	-13.00	-34.70	1.50 V	270	67.70	-115.40
4	150.90	-47.00	-13.00	-34.00	1.00 V	273	66.30	-113.30
5	173.39	-48.50	-13.00	-35.50	1.50 V	192	65.70	-114.20
6	306.94	-54.70	-13.00	-41.70	1.00 V	260	58.10	-112.80

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.



Above 1GHz Data:

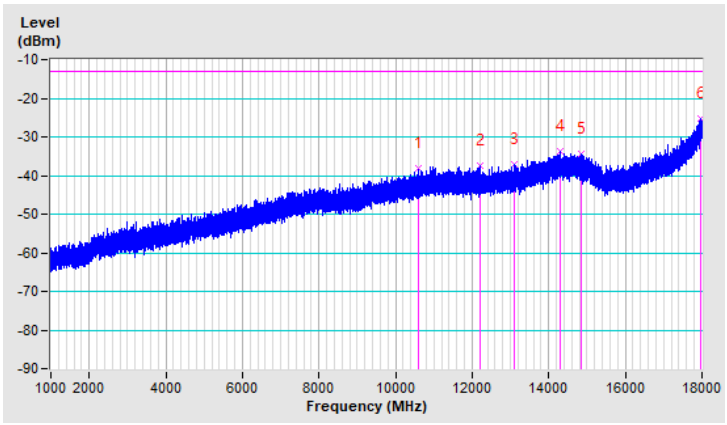
1GHz ~ 18GHz:

Beam ID	147	Frequency Range	1GHz ~ 18GHz
Channel	Low	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	10594.80	-38.30	-13.00	-25.30	1.50 H	202	48.20	-86.50
2	12210.65	-37.50	-13.00	-24.50	1.50 H	339	49.10	-86.60
3	13101.02	-37.00	-13.00	-24.00	2.00 H	274	50.00	-87.00
4	14306.75	-33.80	-13.00	-20.80	1.50 H	113	51.40	-85.20
5	14840.98	-34.50	-13.00	-21.50	1.00 H	358	51.60	-86.10
6	17974.50	-25.20	-13.00	-12.20	2.00 H	67	53.70	-78.90

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

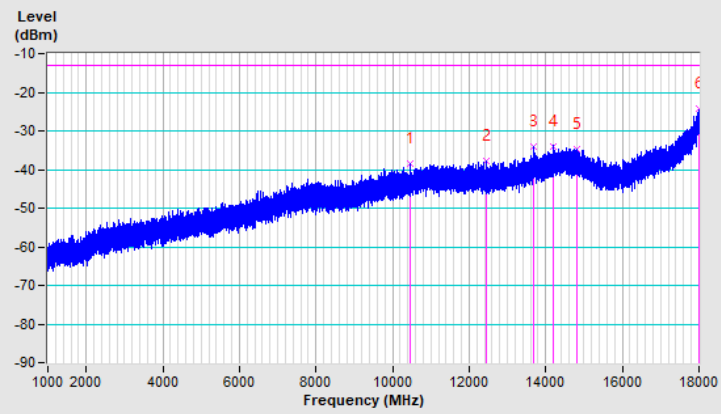


Beam ID	19	Frequency Range	1GHz ~ 18GHz
Channel	Low	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	10452.42	-38.40	-13.00	-25.40	1.50 V	144	48.20	-86.60
2	12461.40	-37.70	-13.00	-24.70	1.50 V	209	49.60	-87.30
3	13693.90	-34.00	-13.00	-21.00	2.00 V	219	52.10	-86.10
4	14180.10	-33.90	-13.00	-20.90	1.50 V	304	51.40	-85.30
5	14825.25	-34.70	-13.00	-21.70	1.50 V	185	51.30	-86.00
6	17992.35	-24.40	-13.00	-11.40	2.00 V	50	54.10	-78.50

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

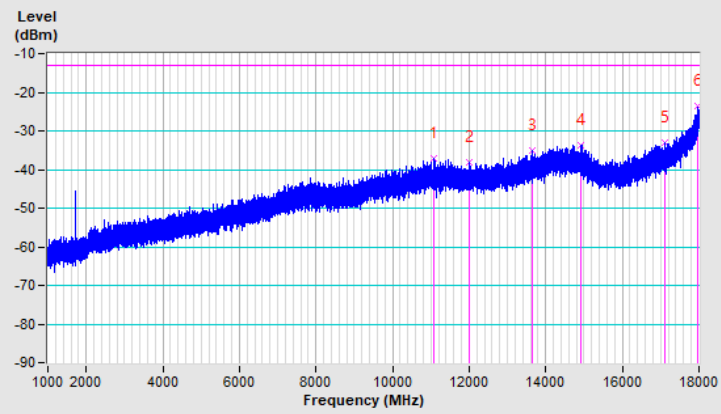


Beam ID	147	Frequency Range	1GHz ~ 18GHz
Channel	Mid	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	11064.42	-37.20	-13.00	-24.20	1.50 H	174	48.90	-86.10
2	11988.80	-38.10	-13.00	-25.10	1.00 H	56	48.60	-86.70
3	13635.67	-35.10	-13.00	-22.10	1.50 H	205	50.80	-85.90
4	14932.35	-33.60	-13.00	-20.60	1.50 H	305	52.80	-86.40
5	17118.12	-33.10	-13.00	-20.10	2.00 H	165	53.20	-86.30
6	17976.20	-23.70	-13.00	-10.70	2.00 H	142	55.20	-78.90

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

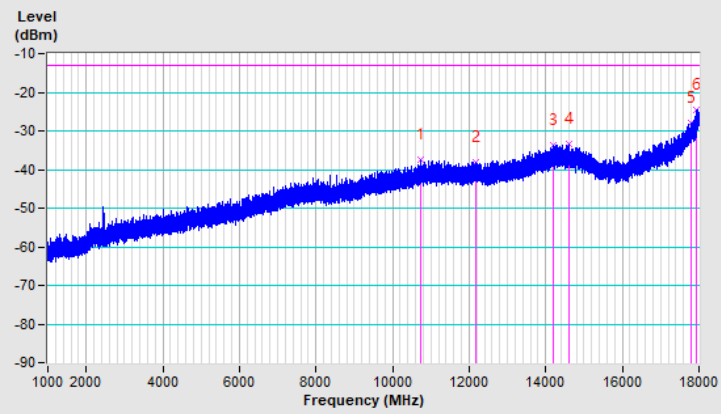


Beam ID	19	Frequency Range	1GHz ~ 18GHz
Channel	Mid	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	10750.35	-37.50	-13.00	-24.50	1.50 V	123	48.50	-86.00
2	12183.45	-38.00	-13.00	-25.00	1.00 V	266	48.60	-86.60
3	14180.52	-33.70	-13.00	-20.70	2.00 V	190	51.60	-85.30
4	14615.30	-33.40	-13.00	-20.40	2.00 V	45	52.20	-85.60
5	17794.30	-27.80	-13.00	-14.80	2.00 V	170	54.40	-82.20
6	17948.15	-24.50	-13.00	-11.50	2.00 V	87	55.10	-79.60

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

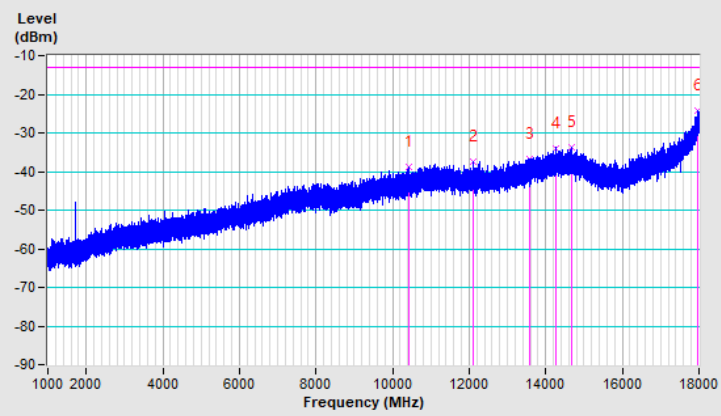


Beam ID	147	Frequency Range	1GHz ~ 18GHz
Channel	High	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	10413.75	-38.90	-13.00	-25.90	1.50 H	243	47.70	-86.60
2	12118.85	-37.50	-13.00	-24.50	1.50 H	25	48.90	-86.40
3	13562.58	-36.90	-13.00	-23.90	2.00 H	316	49.10	-86.00
4	14275.30	-33.90	-13.00	-20.90	1.00 H	55	51.20	-85.10
5	14669.70	-33.80	-13.00	-20.80	2.00 H	149	51.70	-85.50
6	17964.72	-24.10	-13.00	-11.10	1.50 H	187	55.10	-79.20

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

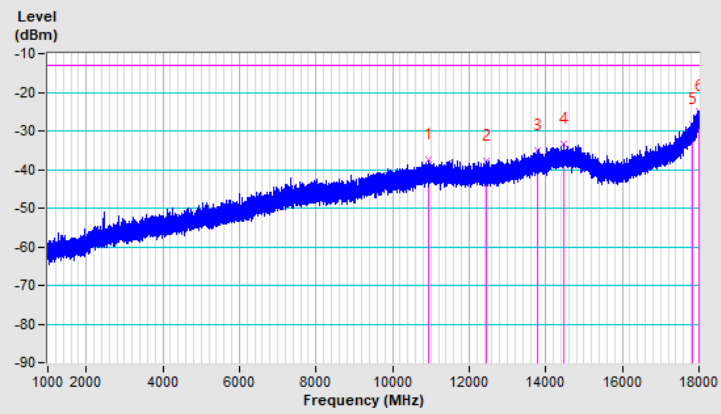


Beam ID	19	Frequency Range	1GHz ~ 18GHz
Channel	High	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	10933.95	-37.60	-13.00	-24.60	1.50 V	200	48.10	-85.70
2	12436.33	-37.80	-13.00	-24.80	2.00 V	174	49.50	-87.30
3	13779.75	-35.20	-13.00	-22.20	2.00 V	25	51.00	-86.20
4	14479.73	-33.40	-13.00	-20.40	2.00 V	163	52.00	-85.40
5	17812.58	-28.40	-13.00	-15.40	1.50 V	344	53.60	-82.00
6	17992.35	-24.80	-13.00	-11.80	2.00 V	269	53.70	-78.50

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.



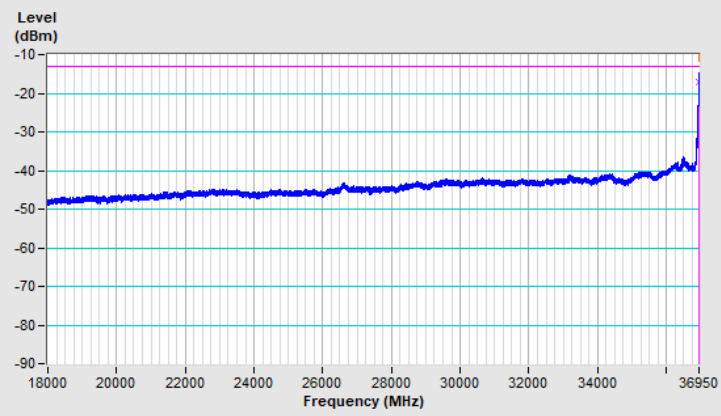
18GHz ~ 36.950GHz:

Beam ID	147	Frequency Range	18GHz ~ 36.950GHz
Channel	Low	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	36949.38	-17.19	-13.00	-4.19	1.39 H	218	78.52	-95.71

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

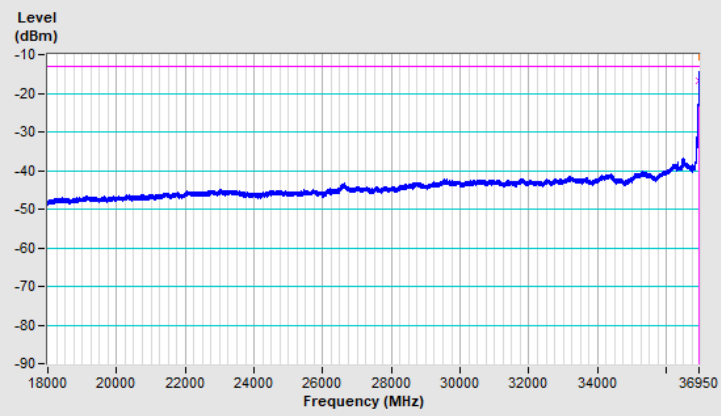


Beam ID	19	Frequency Range	18GHz ~ 36.950GHz
Channel	Low	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	36946.54	-16.76	-13.00	-3.76	1.74 V	188	78.95	-95.71

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

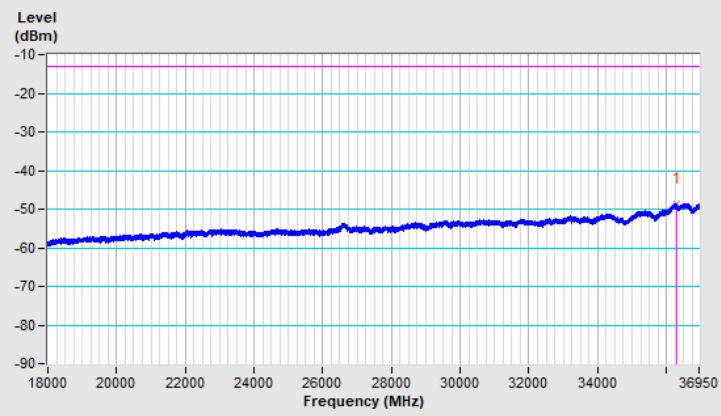


Beam ID	147	Frequency Range	18GHz ~ 36.950GHz
Channel	Mid	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	36282.89	-48.52	-13.00	-35.52	1.37 H	188	47.40	-95.92

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

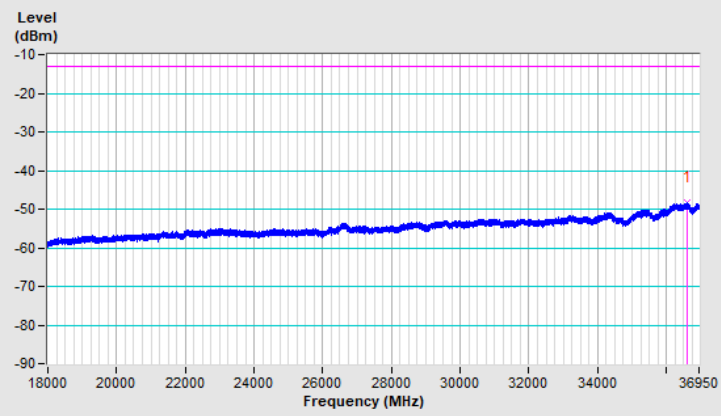


Beam ID	19	Frequency Range	18GHz ~ 36.950GHz
Channel	Mid	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	36591.71	-48.25	-13.00	-35.25	1.49 V	186	47.53	-95.78

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

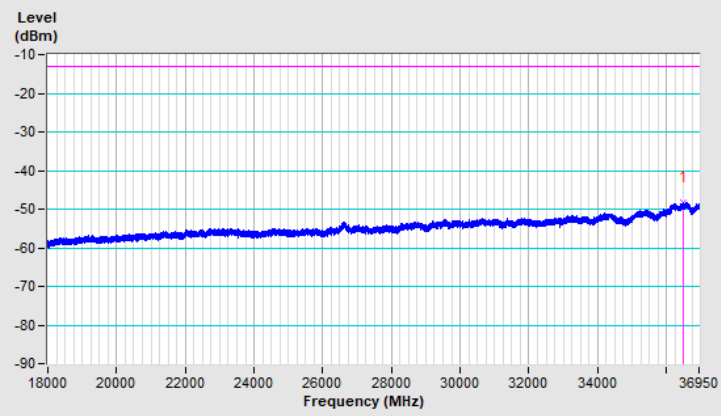


Beam ID	147	Frequency Range	18GHz ~ 36.950GHz
Channel	High	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	36508.69	-48.33	-13.00	-35.33	1.46 H	179	47.63	-95.96

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

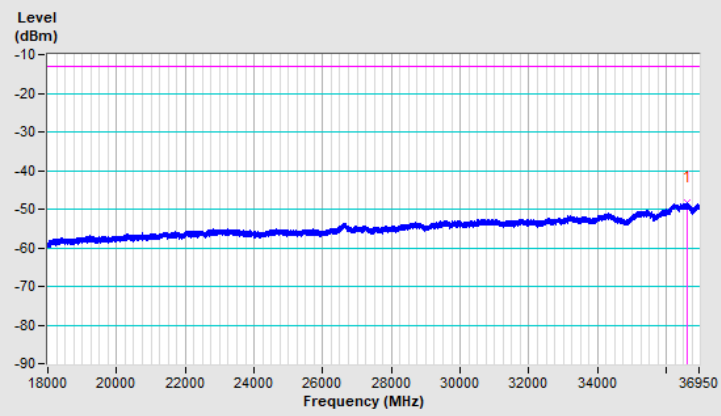


Beam ID	19	Frequency Range	18GHz ~ 36.950GHz
Channel	High	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	36596.92	-48.44	-13.00	-35.44	1.42 V	231	47.33	-95.77

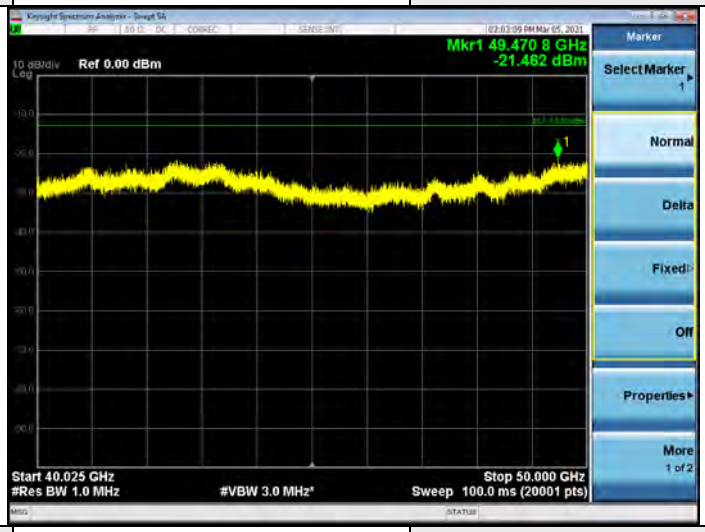
Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

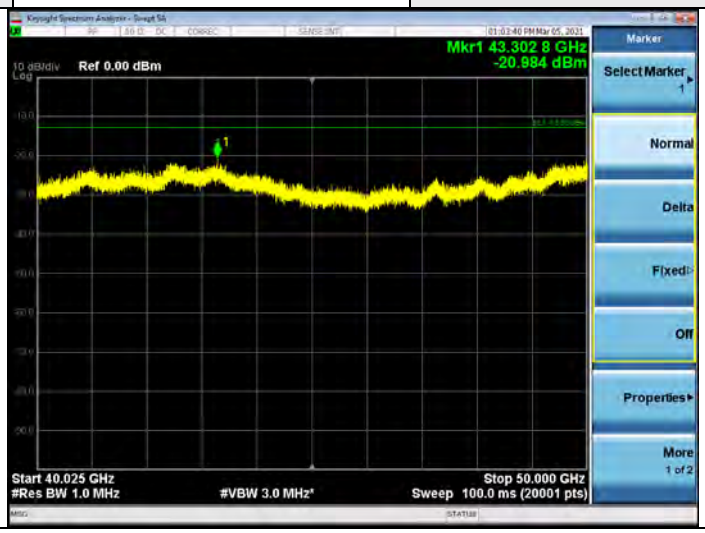


40.025GHz ~ 50GHz:

Band	n260	Beam ID	147
Frequency Range	40.025GHz-50GHz	Channel	Low
Antenna polarity	Horizontal	Test distance	3m

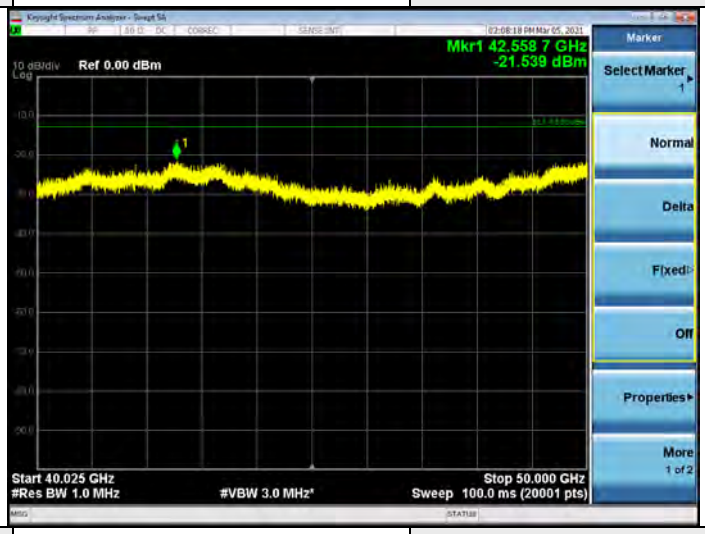


Band	n260	Beam ID	19
Frequency Range	40.025GHz-50GHz	Channel	Low
Antenna polarity	Vertical	Test distance	3m

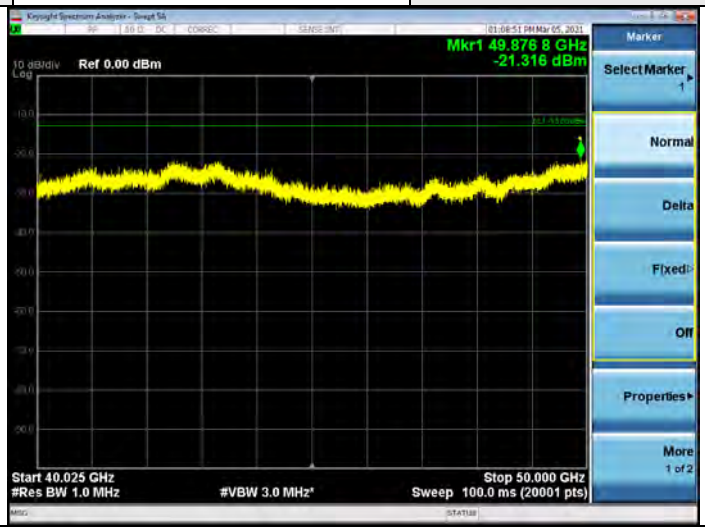


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.

Band	n260	Beam ID	147
Frequency Range	40.025GHz-50GHz	Channel	Middle
Antenna polarity	Horizontal	Test distance	3m

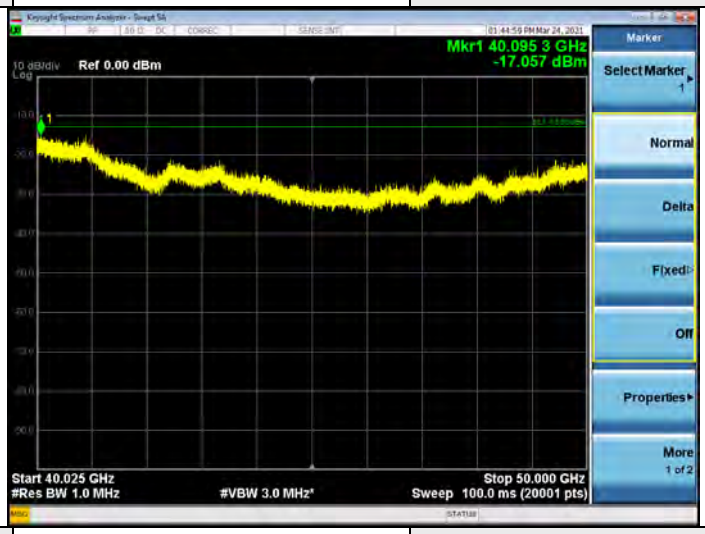


Band	n260	Beam ID	19
Frequency Range	40.025GHz-50GHz	Channel	Middle
Antenna polarity	Vertical	Test distance	3m

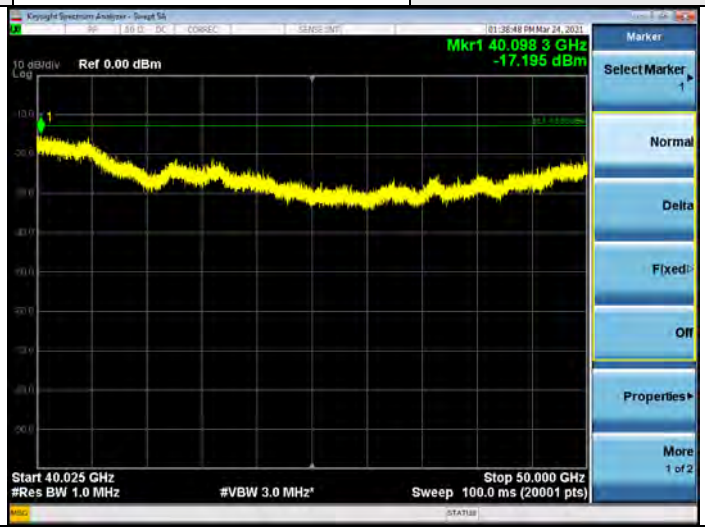


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.

Band	n260	Beam ID	147
Frequency Range	40.025GHz-50GHz	Channel	High
Antenna polarity	Horizontal	Test distance	3m



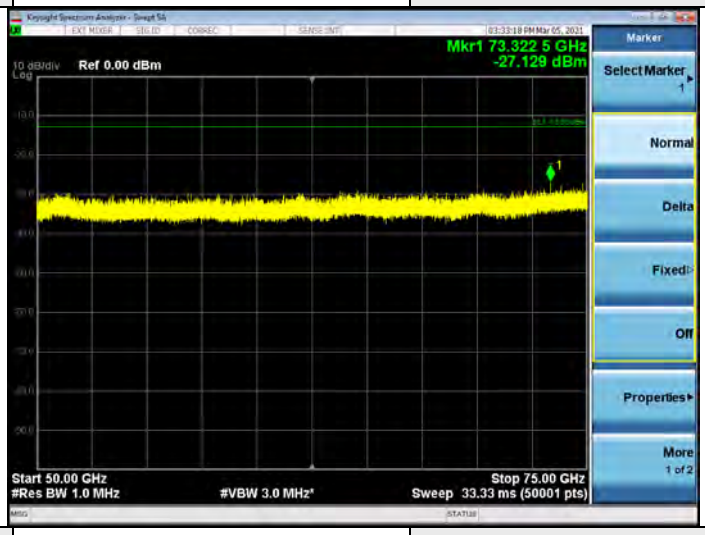
Band	n260	Beam ID	19
Frequency Range	40.025GHz-50GHz	Channel	High
Antenna polarity	Vertical	Test distance	3m



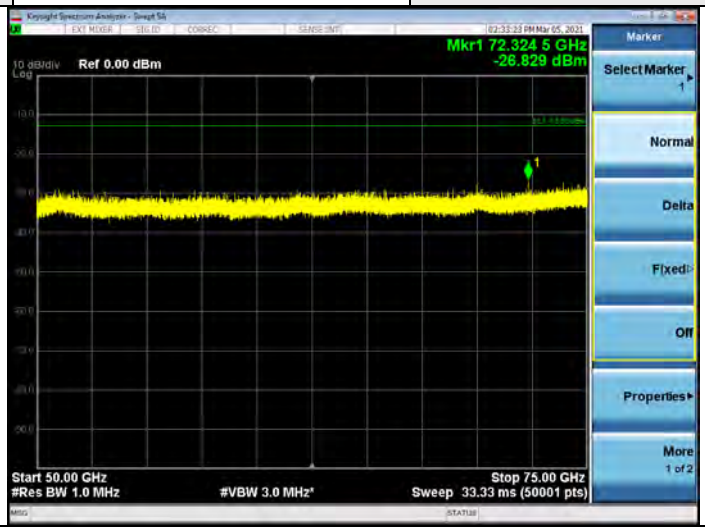
Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.

50GHz ~ 75GHz:

Band	n260	Beam ID	147
Frequency Range	50GHz-75GHz	Channel	Low
Antenna polarity	Horizontal	Test distance	3m

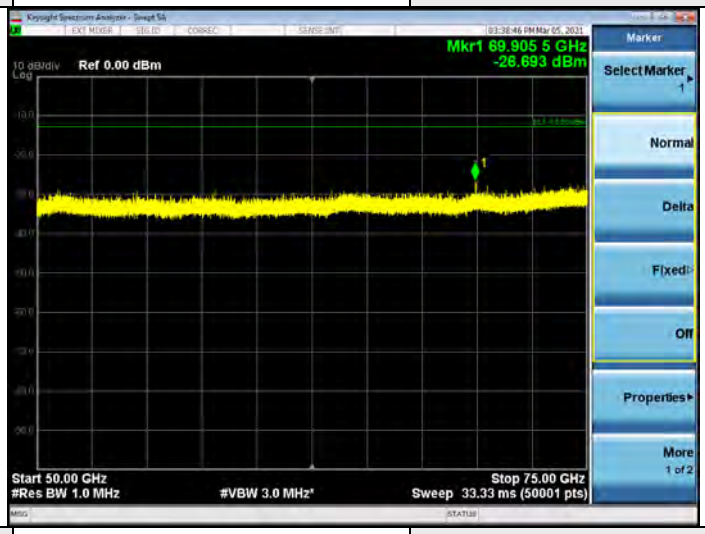


Band	n260	Beam ID	19
Frequency Range	50GHz-75GHz	Channel	Low
Antenna polarity	Vertical	Test distance	3m

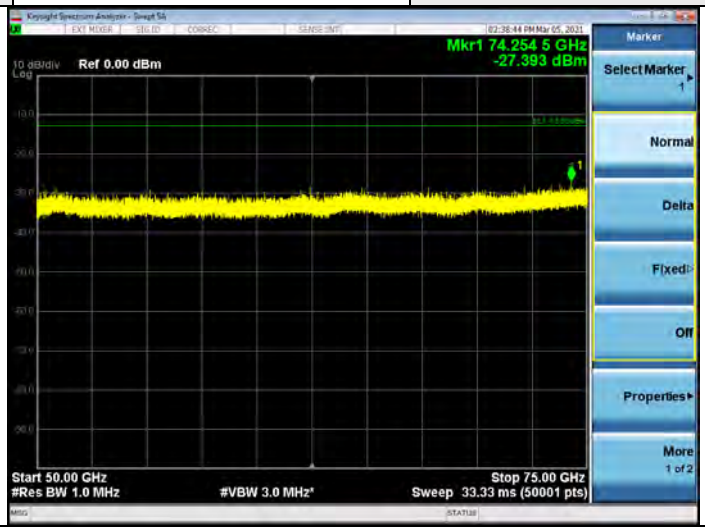


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n260	Beam ID	147
Frequency Range	50GHz-75GHz	Channel	Middle
Antenna polarity	Horizontal	Test distance	3m

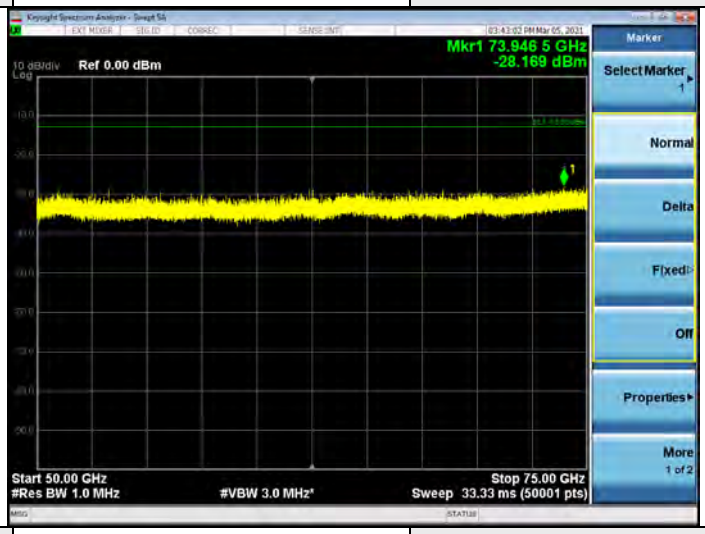


Band	n260	Beam ID	19
Frequency Range	50GHz-75GHz	Channel	Middle
Antenna polarity	Vertical	Test distance	3m

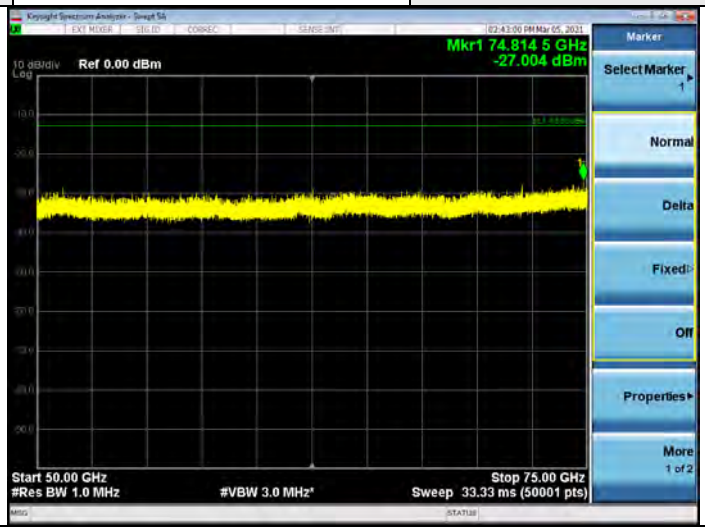


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n260	Beam ID	147
Frequency Range	50GHz-75GHz	Channel	High
Antenna polarity	Horizontal	Test distance	3m



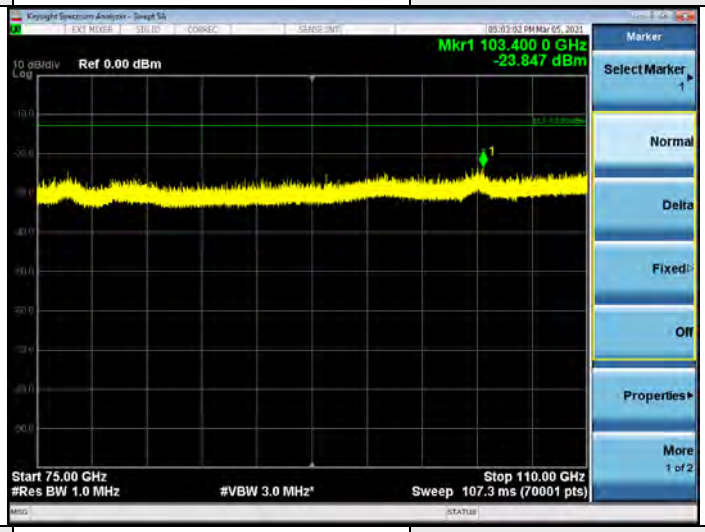
Band	n260	Beam ID	19
Frequency Range	50GHz-75GHz	Channel	High
Antenna polarity	Vertical	Test distance	3m



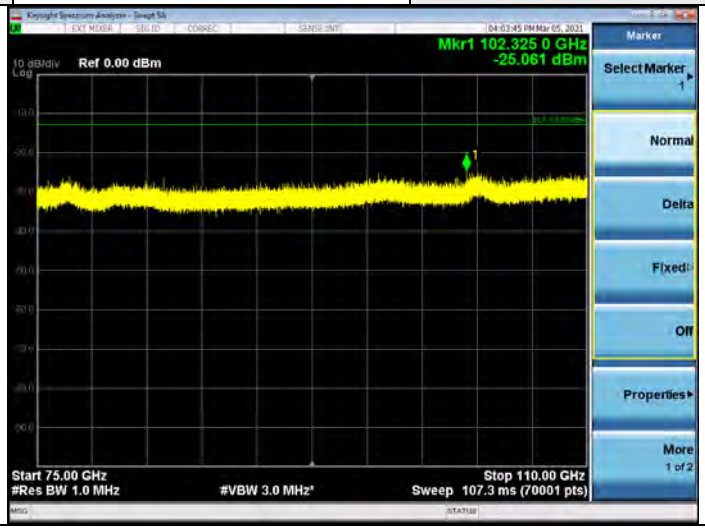
Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

75GHz ~ 110GHz:

Band	n260	Beam ID	147
Frequency Range	75GHz-110GHz	Channel	Low
Antenna polarity	Horizontal	Test distance	3m

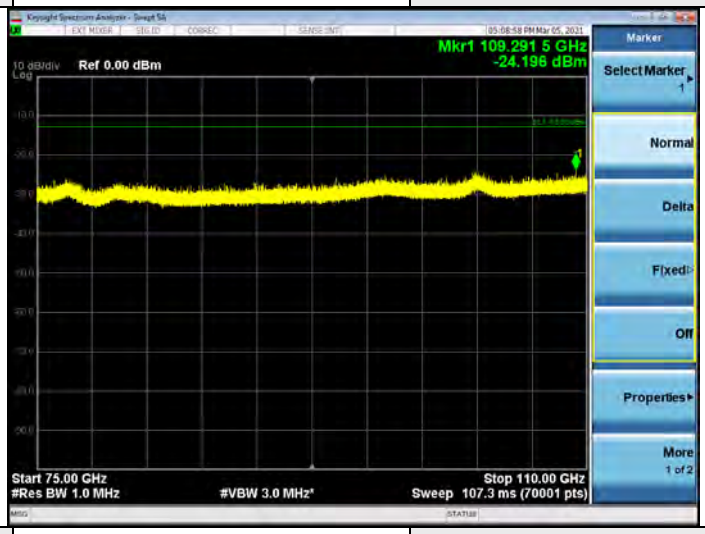


Band	n260	Beam ID	19
Frequency Range	75GHz-110GHz	Channel	Low
Antenna polarity	Vertical	Test distance	3m

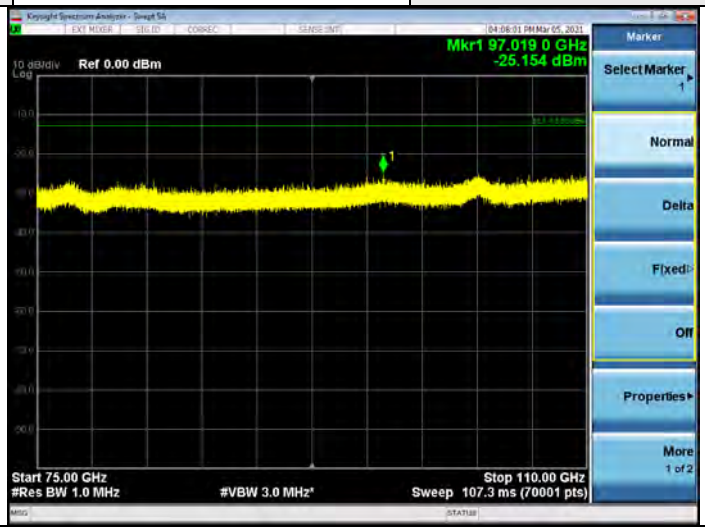


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n260	Beam ID	147
Frequency Range	75GHz-110GHz	Channel	Middle
Antenna polarity	Horizontal	Test distance	3m

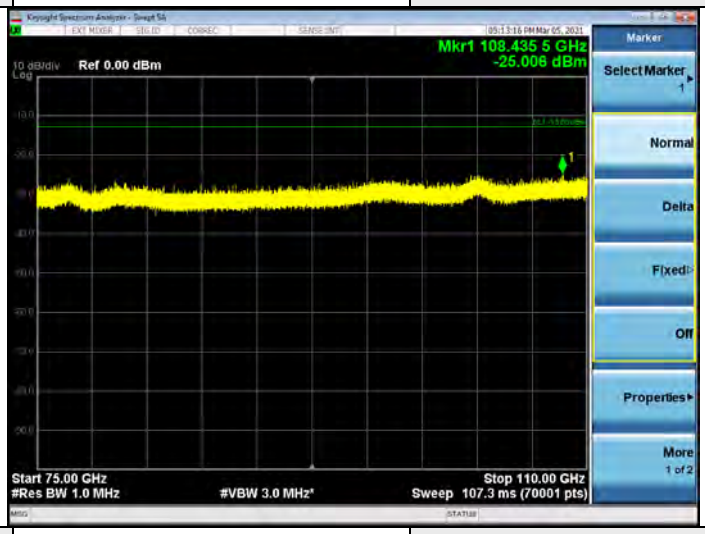


Band	n260	Beam ID	19
Frequency Range	75GHz-110GHz	Channel	Middle
Antenna polarity	Vertical	Test distance	3m

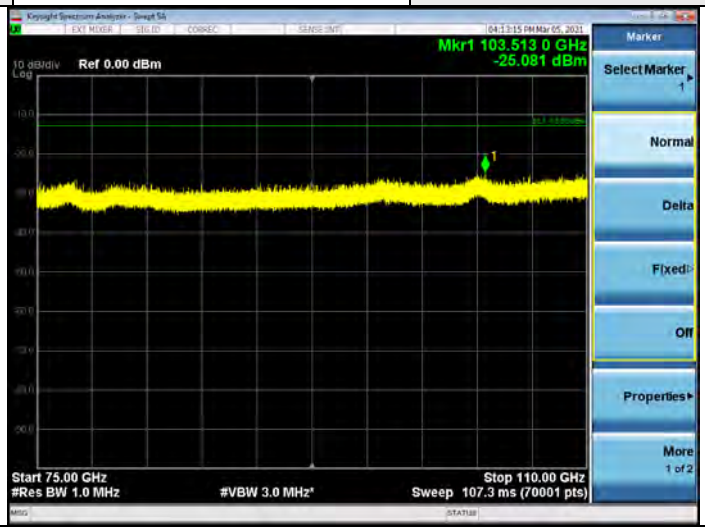


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n260	Beam ID	147
Frequency Range	75GHz-110GHz	Channel	High
Antenna polarity	Horizontal	Test distance	3m



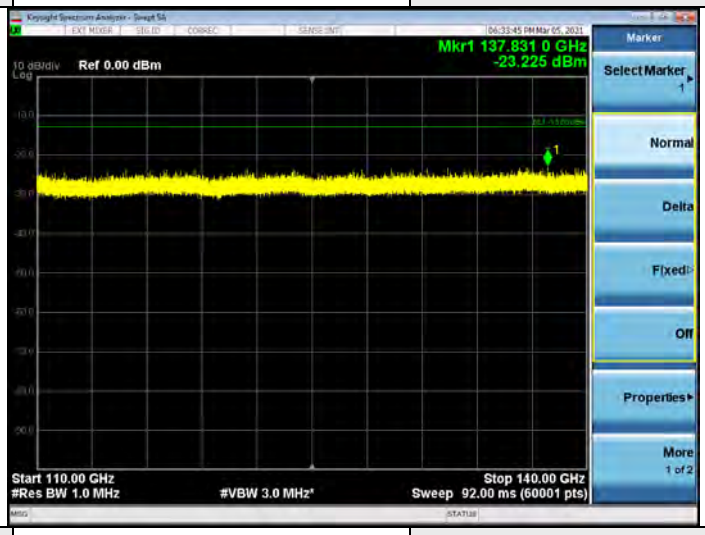
Band	n260	Beam ID	19
Frequency Range	75GHz-110GHz	Channel	High
Antenna polarity	Vertical	Test distance	3m



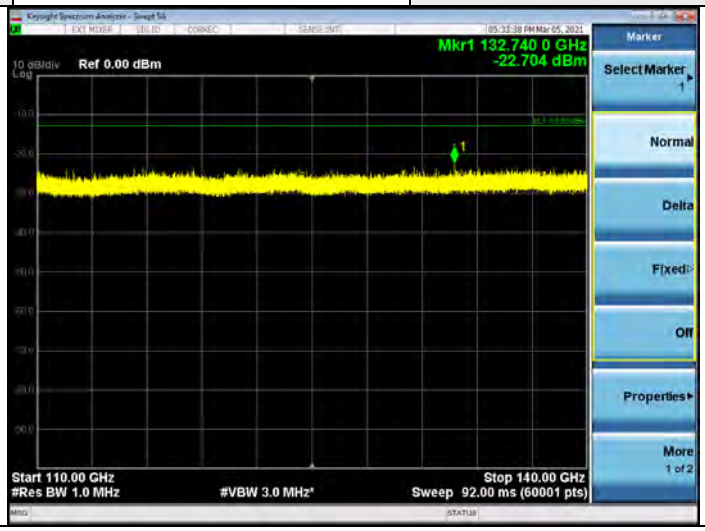
Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

110GHz ~ 140GHz:

Band	n260	Beam ID	147
Frequency Range	110GHz-140GHz	Channel	Low
Antenna polarity	Horizontal	Test distance	3m

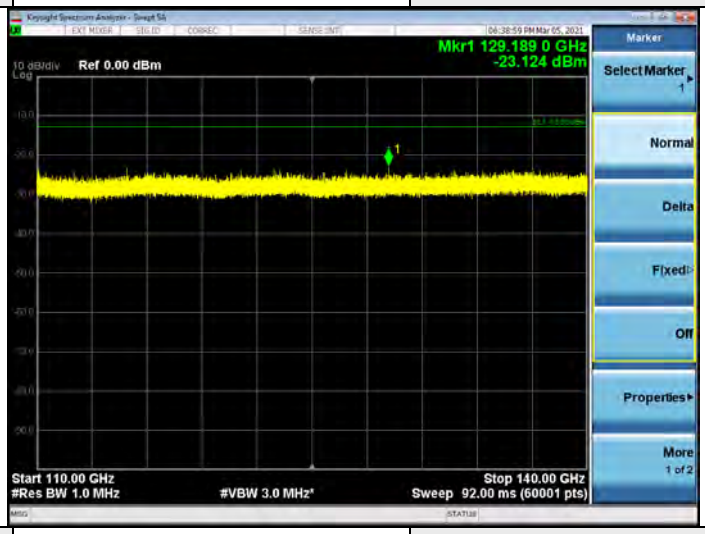


Band	n260	Beam ID	19
Frequency Range	110GHz-140GHz	Channel	Low
Antenna polarity	Vertical	Test distance	3m

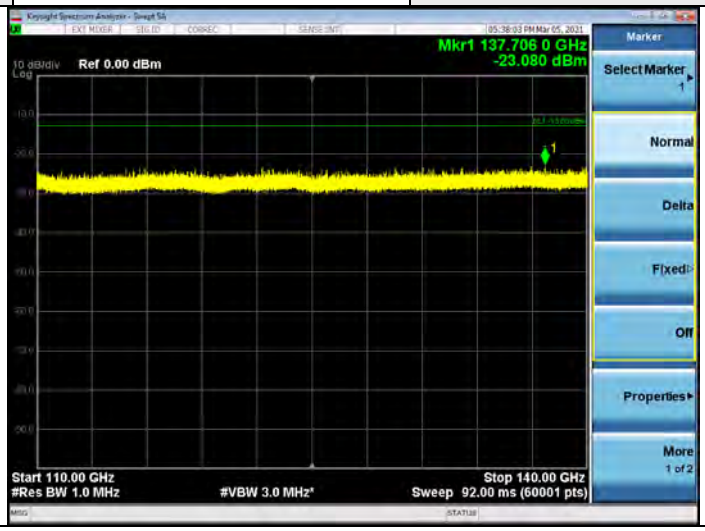


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n260	Beam ID	147
Frequency Range	110GHz-140GHz	Channel	Middle
Antenna polarity	Horizontal	Test distance	3m

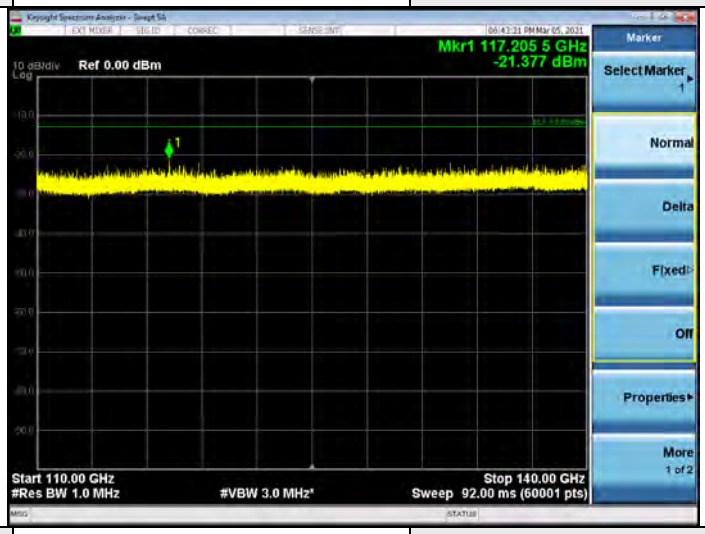


Band	n260	Beam ID	19
Frequency Range	110GHz-140GHz	Channel	Middle
Antenna polarity	Vertical	Test distance	3m

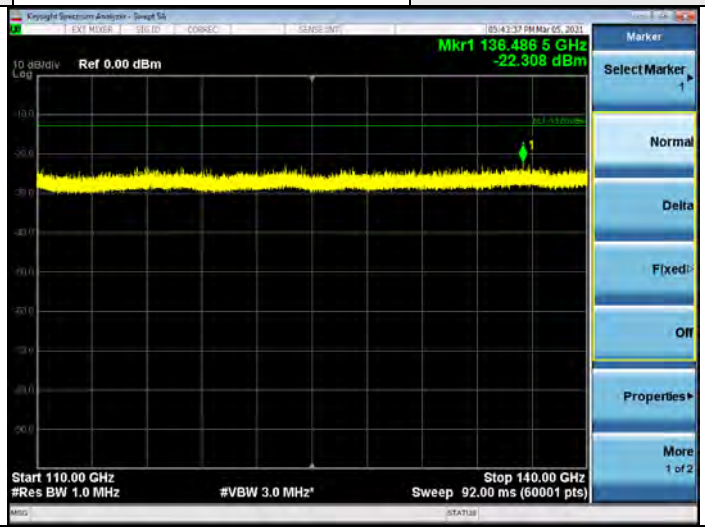


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n260	Beam ID	147
Frequency Range	110GHz-140GHz	Channel	High
Antenna polarity	Horizontal	Test distance	3m



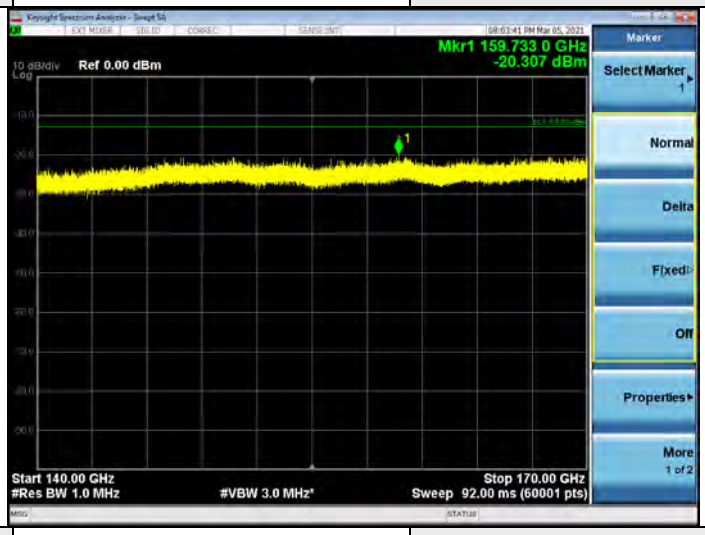
Band	n260	Beam ID	19
Frequency Range	110GHz-140GHz	Channel	High
Antenna polarity	Vertical	Test distance	3m



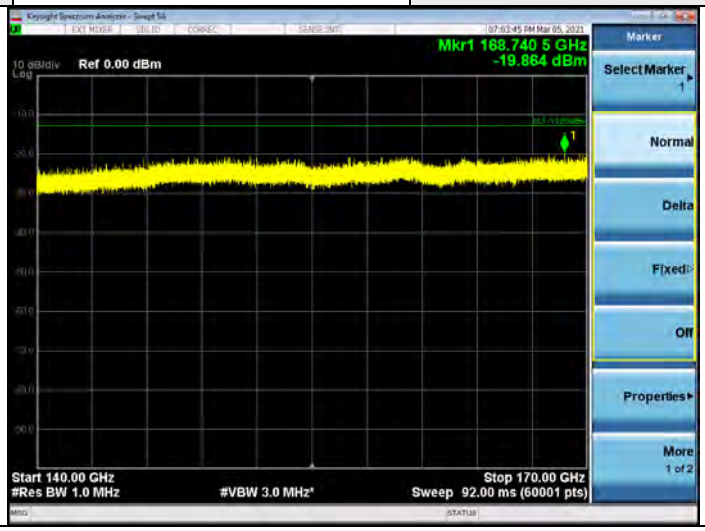
Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

140GHz ~ 170GHz:

Band	n260	Beam ID	147
Frequency Range	140GHz-170GHz	Channel	Low
Antenna polarity	Horizontal	Test distance	3m

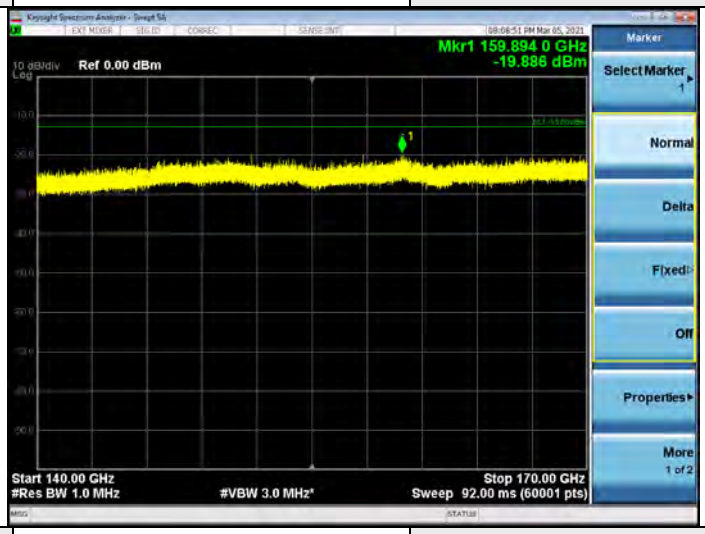


Band	n260	Beam ID	19
Frequency Range	140GHz-170GHz	Channel	Low
Antenna polarity	Vertical	Test distance	3m

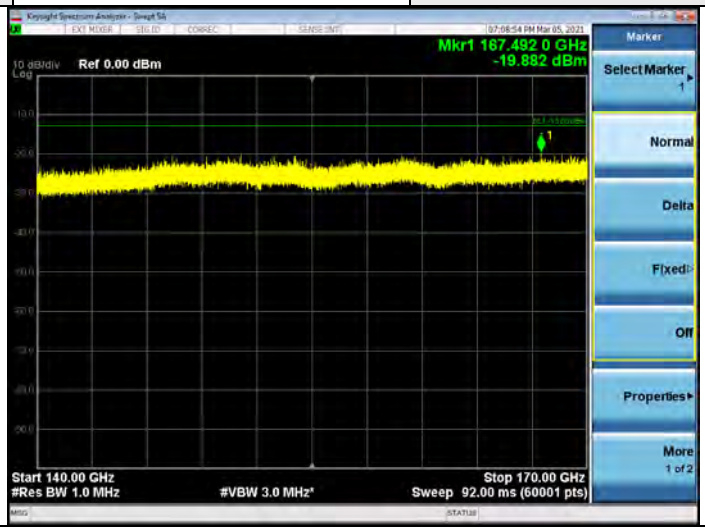


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n260	Beam ID	147
Frequency Range	140GHz-170GHz	Channel	Middle
Antenna polarity	Horizontal	Test distance	3m

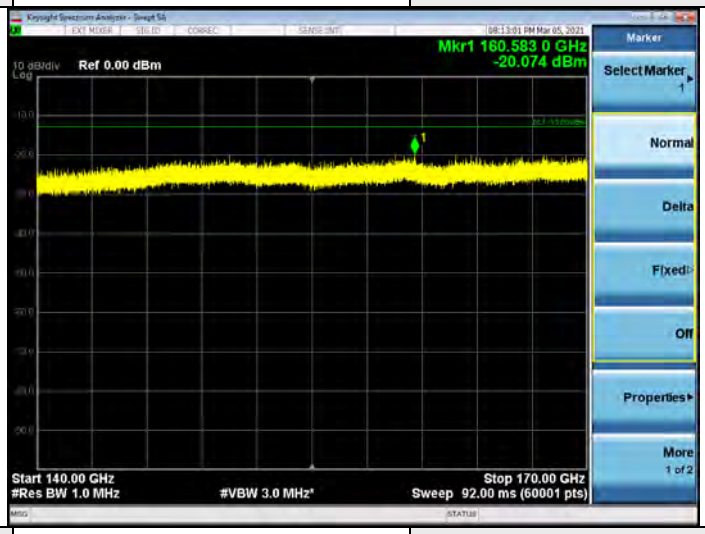


Band	n260	Beam ID	19
Frequency Range	140GHz-170GHz	Channel	Middle
Antenna polarity	Vertical	Test distance	3m

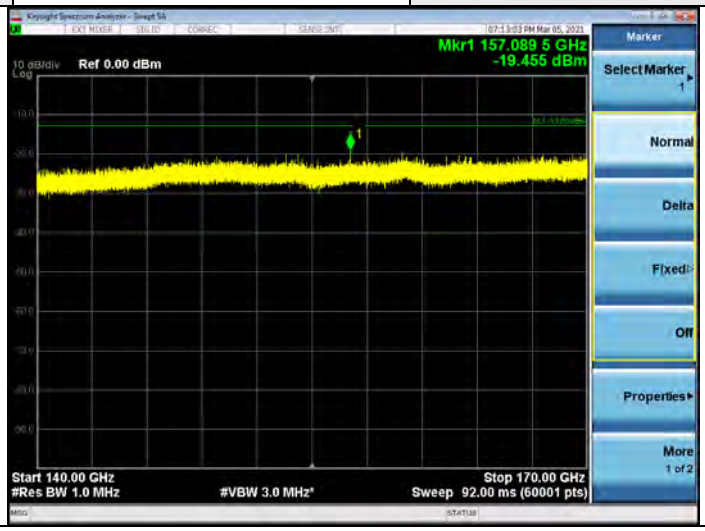


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n260	Beam ID	147
Frequency Range	140GHz-170GHz	Channel	High
Antenna polarity	Horizontal	Test distance	3m



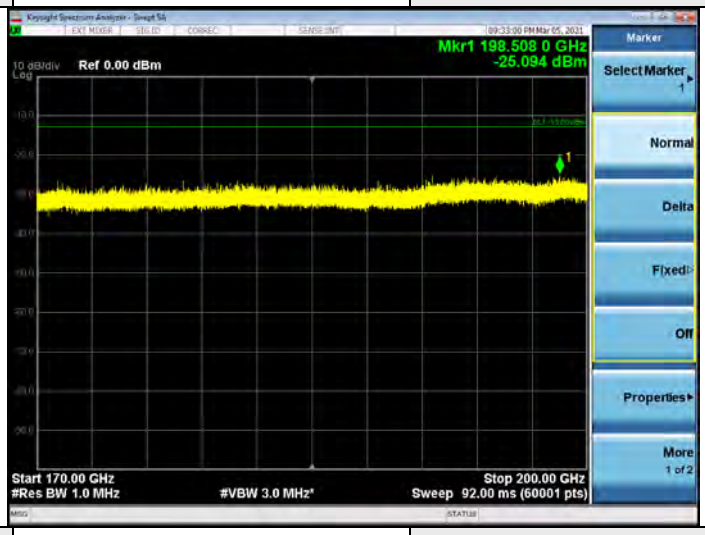
Band	n260	Beam ID	19
Frequency Range	140GHz-170GHz	Channel	High
Antenna polarity	Vertical	Test distance	3m



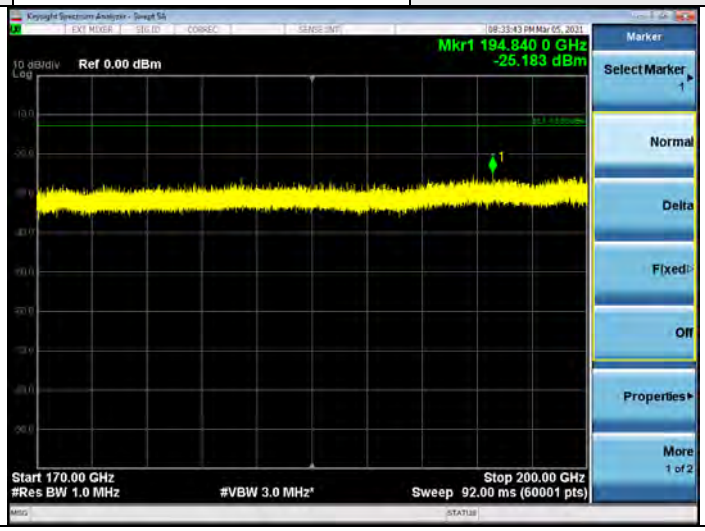
Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

170GHz ~ 200GHz:

Band	n260	Beam ID	147
Frequency Range	170GHz-200GHz	Channel	Low
Antenna polarity	Horizontal	Test distance	3.5m

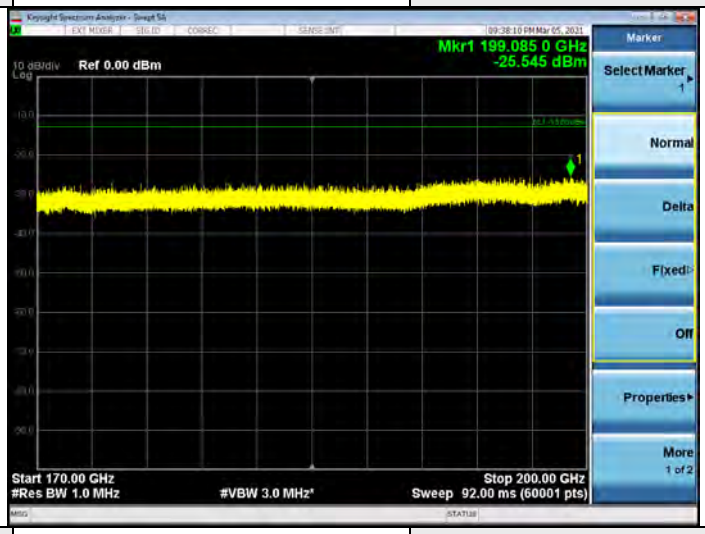


Band	n260	Beam ID	19
Frequency Range	170GHz-200GHz	Channel	Low
Antenna polarity	Vertical	Test distance	3.5m

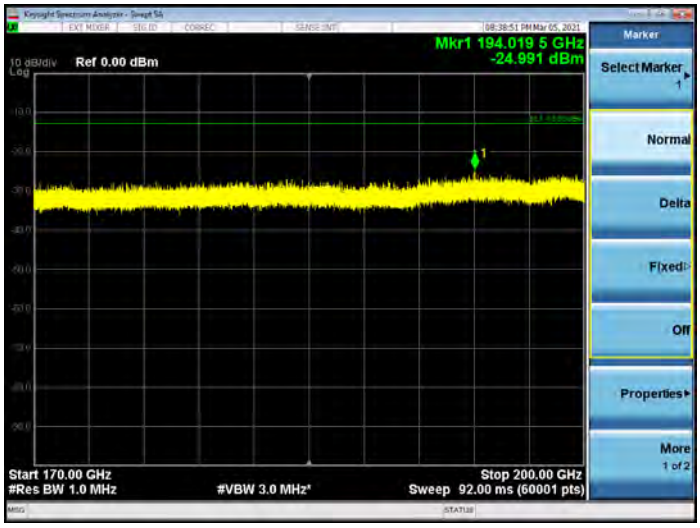


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n260	Beam ID	147
Frequency Range	170GHz-200GHz	Channel	Middle
Antenna polarity	Horizontal	Test distance	3.5m

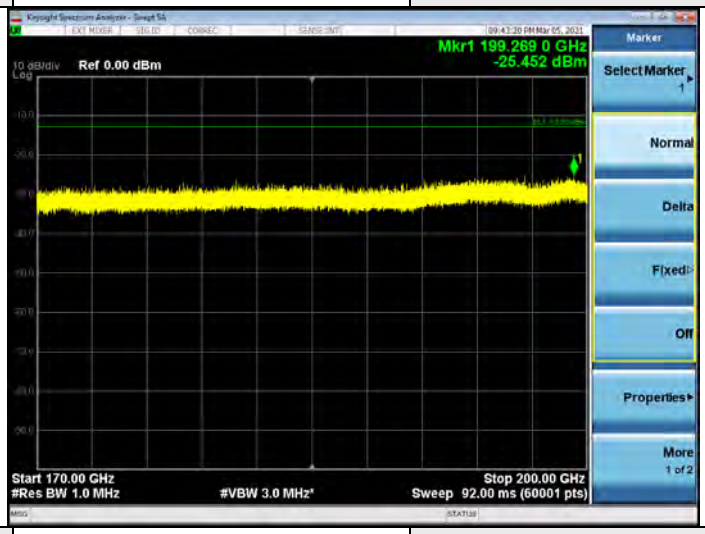


Band	n260	Beam ID	19
Frequency Range	170GHz-200GHz	Channel	Middle
Antenna polarity	Vertical	Test distance	3.5m

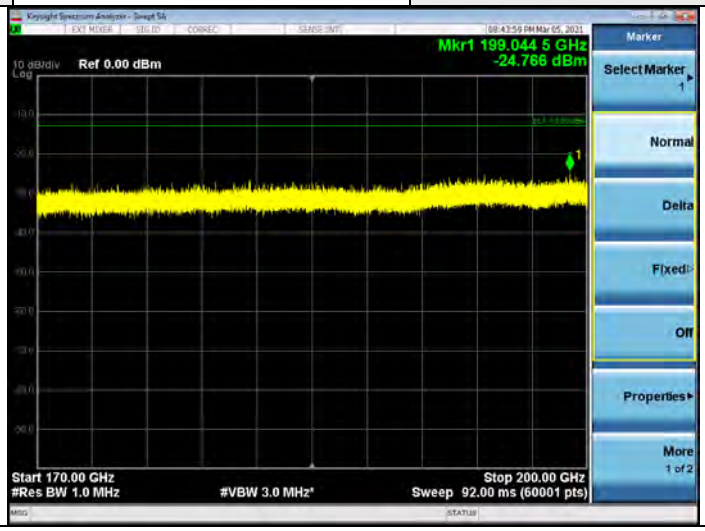


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n260	Beam ID	147
Frequency Range	170GHz-200GHz	Channel	High
Antenna polarity	Horizontal	Test distance	3.5m



Band	n260	Beam ID	19
Frequency Range	170GHz-200GHz	Channel	High
Antenna polarity	Vertical	Test distance	3.5m



Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Summary of MIMO Out-of-Band Spurious Emission EIRP:

To address compliance of MIMO spurious emission per KDB 662911 D01, the MIMO spurious emission EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm.

EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)						
Test Frequency Range	Channel	EIRP (H Beam)	EIRP (V Beam)	EIRP (MIMO)	Limit (dBm)	Margin (dB)
Below 1GHz	2229999	-44.60	-32.20	-31.96	-13	-18.96
	2259997	-45.70	-33.10	-32.87	-13	-19.87
	2278331	-45.40	-33.40	-33.13	-13	-20.13
1GHz to 18GHz	2229999	-25.20	-24.40	-21.77	-13	-8.77
	2259997	-23.70	-24.50	-21.07	-13	-8.07
	2278331	-24.10	-24.80	-21.43	-13	-8.43
18GHz to 36.975GHz	2229999	-17.19	-16.76	-13.96	-13	-0.96
	2259997	-48.52	-48.25	-45.37	-13	-32.37
	2278331	-48.33	-48.44	-45.37	-13	-32.37
40.025GHz to 50GHz	2229999	-21.46	-20.98	-18.20	-13	-5.20
	2259997	-21.53	-21.31	-18.41	-13	-5.41
	2278331	-17.05	-17.09	-14.06	-13	-1.06
50GHz to 75GHz	2229999	-27.12	-26.82	-23.96	-13	-10.96
	2259997	-26.69	-27.39	-24.02	-13	-11.02
	2278331	-28.16	-27.00	-24.53	-13	-11.53
75GHz to 110GHz	2229999	-23.84	-25.06	-21.40	-13	-8.40
	2259997	-24.19	-25.15	-21.63	-13	-8.63
	2278331	-25.00	-25.08	-22.03	-13	-9.03
110GHz to 140GHz	2229999	-23.22	-22.70	-19.94	-13	-6.94
	2259997	-23.12	-23.08	-20.09	-13	-7.09
	2278331	-21.37	-22.30	-18.80	-13	-5.80
140GHz to 170GHz	2229999	-20.30	-19.86	-17.06	-13	-4.06
	2259997	-19.88	-19.88	-16.87	-13	-3.87
	2278331	-20.07	-19.45	-16.74	-13	-3.74
170GHz to 200GHz	2229999	-25.09	-25.18	-22.12	-13	-9.12
	2259997	-25.54	-24.99	-22.25	-13	-9.25
	2278331	-25.45	-24.76	-22.08	-13	-9.08

n261

Bandwidth: 50MHz

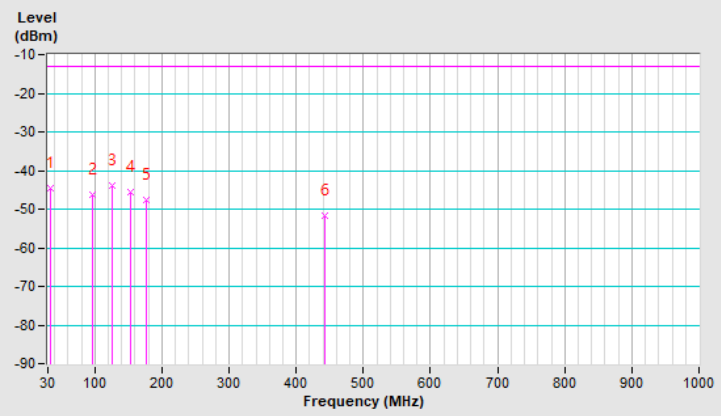
Below 1GHz Data:

Beam ID	147	Frequency Range	Below 1000 MHz
Channel	Low	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	34.22	-44.70	-13.00	-31.70	1.99 H	150	70.10	-114.80
2	96.07	-46.20	-13.00	-33.20	1.99 H	79	73.00	-119.20
3	125.59	-43.80	-13.00	-30.80	1.49 H	276	71.40	-115.20
4	153.71	-45.60	-13.00	-32.60	1.99 H	249	67.60	-113.20
5	177.61	-47.50	-13.00	-34.50	1.49 H	156	67.20	-114.70
6	441.90	-51.60	-13.00	-38.60	1.99 H	228	57.50	-109.10

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

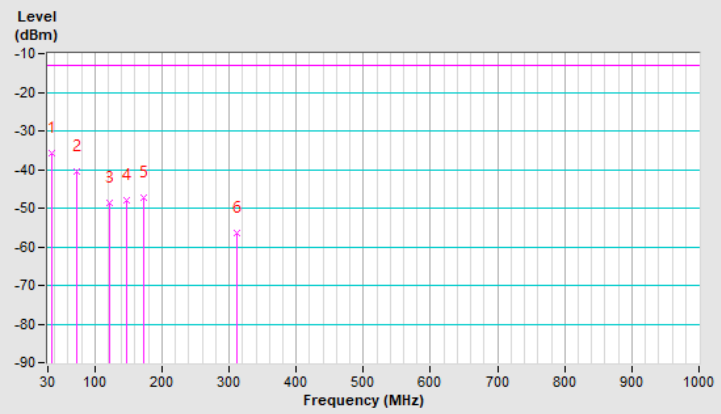


Beam ID	19	Frequency Range	Below 1000 MHz
Channel	Low	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	35.62	-35.70	-13.00	-22.70	1.00 V	214	79.10	-114.80
2	73.58	-40.40	-13.00	-27.40	1.00 V	78	76.90	-117.30
3	122.78	-48.50	-13.00	-35.50	1.00 V	250	67.00	-115.50
4	148.09	-48.00	-13.00	-35.00	1.00 V	271	65.50	-113.50
5	171.99	-47.30	-13.00	-34.30	1.00 V	2	66.70	-114.00
6	312.57	-56.40	-13.00	-43.40	1.00 V	259	56.20	-112.60

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

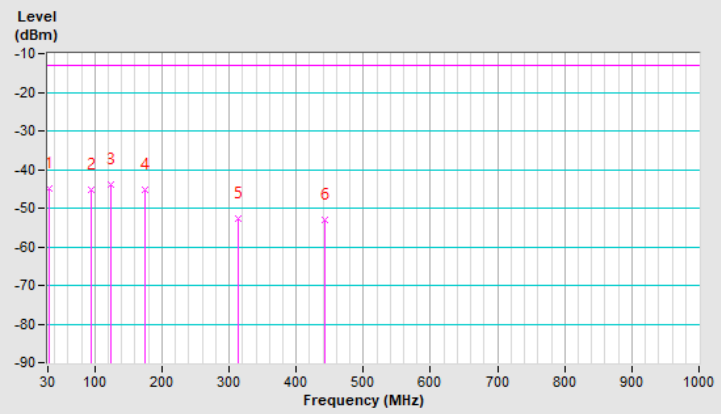


Beam ID	147	Frequency Range	Below 1000 MHz
Channel	Mid	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-45.00	-13.00	-32.00	2.00 H	139	70.10	-115.10
2	94.67	-45.10	-13.00	-32.10	2.00 H	117	74.30	-119.40
3	124.19	-44.00	-13.00	-31.00	2.00 H	256	71.40	-115.40
4	174.80	-45.40	-13.00	-32.40	1.01 H	178	68.90	-114.30
5	313.97	-52.70	-13.00	-39.70	1.01 H	295	59.80	-112.50
6	441.90	-52.90	-13.00	-39.90	2.00 H	228	56.20	-109.10

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

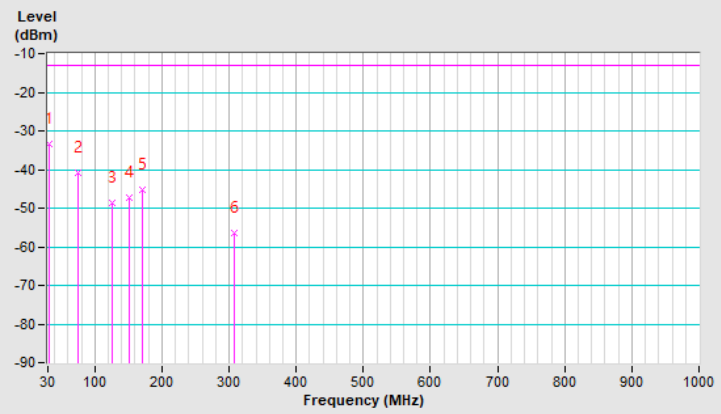


Beam ID	19	Frequency Range	Below 1000 MHz
Channel	Mid	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-33.30	-13.00	-20.30	1.00 V	212	81.80	-115.10
2	74.99	-40.70	-13.00	-27.70	1.00 V	353	76.80	-117.50
3	125.59	-48.60	-13.00	-35.60	1.50 V	250	66.60	-115.20
4	150.90	-47.20	-13.00	-34.20	1.00 V	290	66.10	-113.30
5	170.58	-45.20	-13.00	-32.20	1.00 V	8	68.70	-113.90
6	306.94	-56.30	-13.00	-43.30	1.00 V	263	56.50	-112.80

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

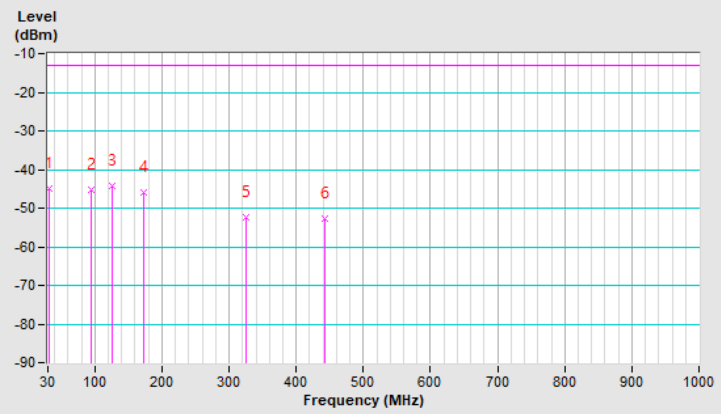


Beam ID	147	Frequency Range	Below 1000 MHz
Channel	High	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-45.00	-13.00	-32.00	1.99 H	170	70.10	-115.10
2	94.67	-45.20	-13.00	-32.20	1.99 H	280	74.20	-119.40
3	125.59	-44.20	-13.00	-31.20	1.49 H	287	71.00	-115.20
4	173.39	-45.80	-13.00	-32.80	1.49 H	167	68.40	-114.20
5	325.22	-52.30	-13.00	-39.30	1.00 H	305	59.90	-112.20
6	441.90	-52.70	-13.00	-39.70	1.99 H	230	56.40	-109.10

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

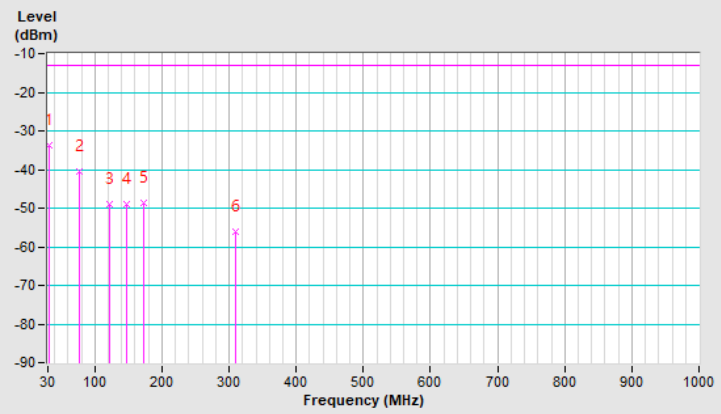


Beam ID	19	Frequency Range	Below 1000 MHz
Channel	High	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-33.80	-13.00	-20.80	1.00 V	112	81.30	-115.10
2	76.39	-40.60	-13.00	-27.60	1.00 V	9	77.40	-118.00
3	121.38	-49.00	-13.00	-36.00	1.50 V	257	66.60	-115.60
4	146.68	-49.00	-13.00	-36.00	1.00 V	245	64.40	-113.40
5	171.99	-48.70	-13.00	-35.70	1.50 V	195	65.30	-114.00
6	309.75	-56.00	-13.00	-43.00	1.00 V	266	56.70	-112.70

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.



Above 1GHz Data:

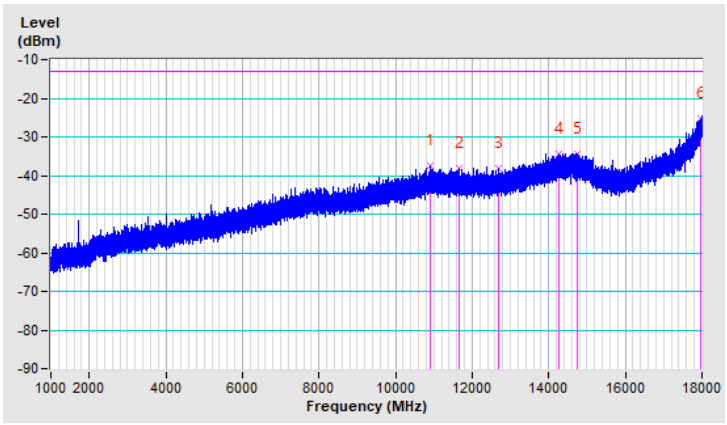
1GHz ~ 18GHz:

Beam ID	147	Frequency Range	1GHz ~ 18GHz
Channel	Low	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	10898.67	-37.40	-13.00	-24.40	1.50 H	218	48.30	-85.70
2	11659.42	-38.00	-13.00	-25.00	2.00 H	347	48.40	-86.40
3	12696.00	-38.20	-13.00	-25.20	1.50 H	55	48.60	-86.80
4	14263.40	-34.30	-13.00	-21.30	1.50 H	198	50.80	-85.10
5	14750.45	-34.30	-13.00	-21.30	2.00 H	344	51.50	-85.80
6	17971.95	-25.30	-13.00	-12.30	2.00 H	186	53.70	-79.00

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

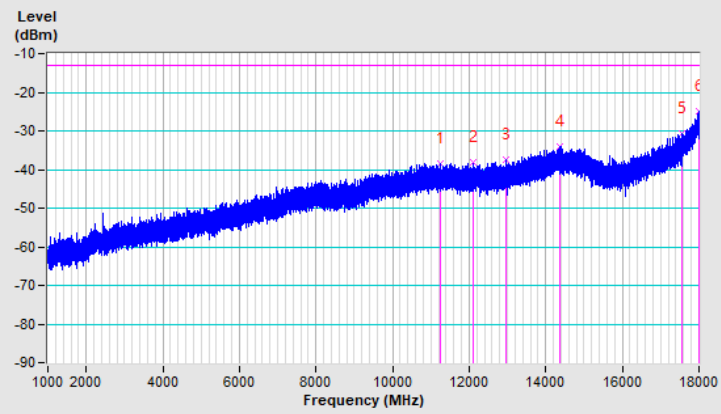


Beam ID	19	Frequency Range	1GHz ~ 18GHz
Channel	Low	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	11251.85	-38.40	-13.00	-25.40	2.00 V	258	47.90	-86.30
2	12121.83	-38.30	-13.00	-25.30	2.00 V	66	48.20	-86.50
3	12959.92	-37.50	-13.00	-24.50	1.00 V	355	49.30	-86.80
4	14364.55	-34.00	-13.00	-21.00	1.50 V	304	51.20	-85.20
5	17538.45	-30.70	-13.00	-17.70	1.50 V	289	53.50	-84.20
6	17993.20	-24.90	-13.00	-11.90	2.00 V	35	53.60	-78.50

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

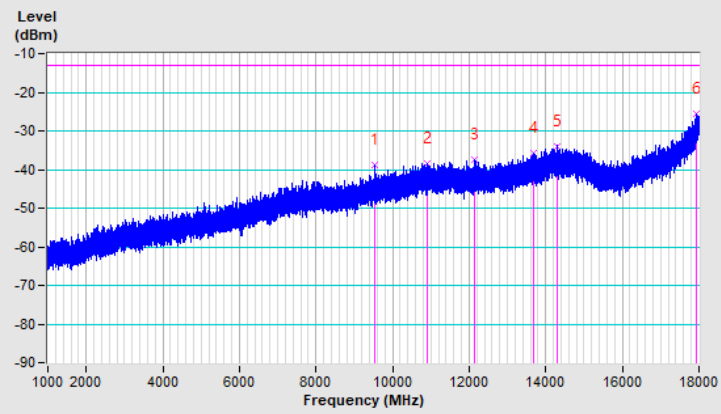


Beam ID	147	Frequency Range	1GHz ~ 18GHz
Channel	Mid	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	9545.90	-38.80	-13.00	-25.80	1.50 H	177	48.90	-87.70
2	10896.12	-38.50	-13.00	-25.50	2.00 H	193	47.20	-85.70
3	12146.90	-37.60	-13.00	-24.60	2.00 H	229	48.90	-86.50
4	13675.20	-35.80	-13.00	-22.80	1.50 H	187	50.20	-86.00
5	14303.35	-33.90	-13.00	-20.90	1.50 H	299	51.30	-85.20
6	17944.75	-25.70	-13.00	-12.70	1.50 H	315	53.90	-79.60

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

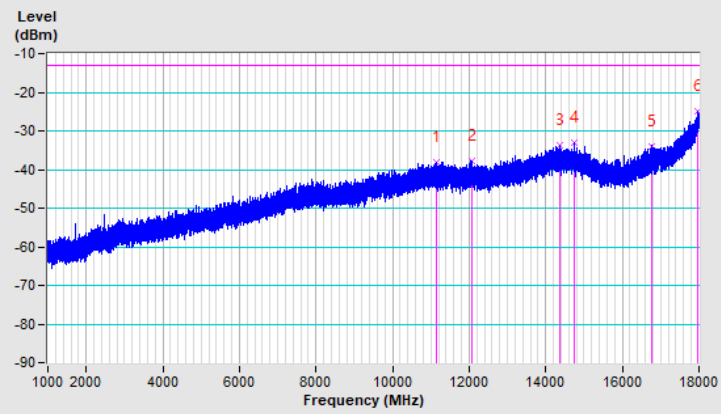


Beam ID	19	Frequency Range	1GHz ~ 18GHz
Channel	Mid	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	11159.20	-38.10	-13.00	-25.10	1.00 V	260	48.20	-86.30
2	12069.98	-37.80	-13.00	-24.80	2.00 V	270	48.70	-86.50
3	14370.92	-33.60	-13.00	-20.60	2.00 V	333	51.60	-85.20
4	14738.55	-33.10	-13.00	-20.10	1.50 V	154	52.70	-85.80
5	16764.53	-33.90	-13.00	-20.90	1.50 V	69	52.50	-86.40
6	17973.65	-25.00	-13.00	-12.00	1.50 V	82	54.00	-79.00

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

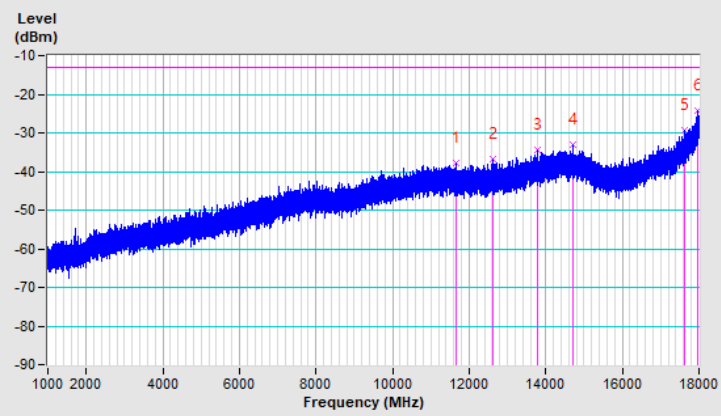


Beam ID	147	Frequency Range	1GHz ~ 18GHz
Channel	High	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	11646.67	-37.80	-13.00	-24.80	1.50 H	13	48.60	-86.40
2	12619.92	-36.70	-13.00	-23.70	1.50 H	215	50.40	-87.10
3	13791.65	-34.40	-13.00	-21.40	1.50 H	317	51.80	-86.20
4	14700.30	-32.90	-13.00	-19.90	1.00 H	337	52.70	-85.60
5	17621.33	-29.20	-13.00	-16.20	2.00 H	264	54.50	-83.70
6	17972.80	-24.20	-13.00	-11.20	1.50 H	188	54.80	-79.00

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

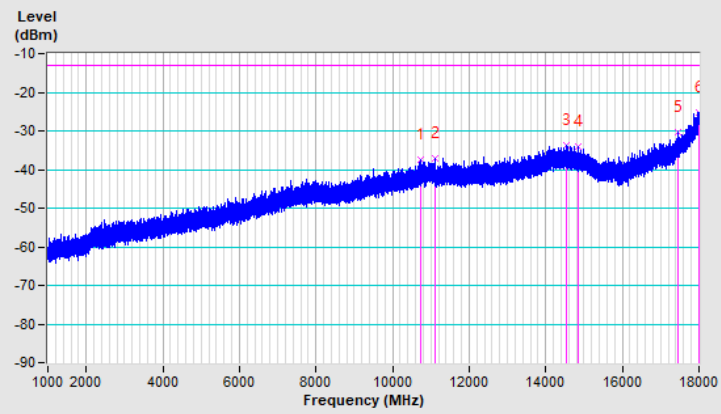


Beam ID	19	Frequency Range	1GHz ~ 18GHz
Channel	High	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	10717.20	-37.30	-13.00	-24.30	1.50 V	157	48.90	-86.20
2	11123.50	-37.00	-13.00	-24.00	1.50 V	297	49.20	-86.20
3	14537.95	-33.80	-13.00	-20.80	2.00 V	325	51.50	-85.30
4	14860.95	-34.00	-13.00	-21.00	1.00 V	49	52.10	-86.10
5	17436.03	-30.30	-13.00	-17.30	2.00 V	52	54.70	-85.00
6	17984.70	-25.30	-13.00	-12.30	2.00 V	166	53.40	-78.70

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.



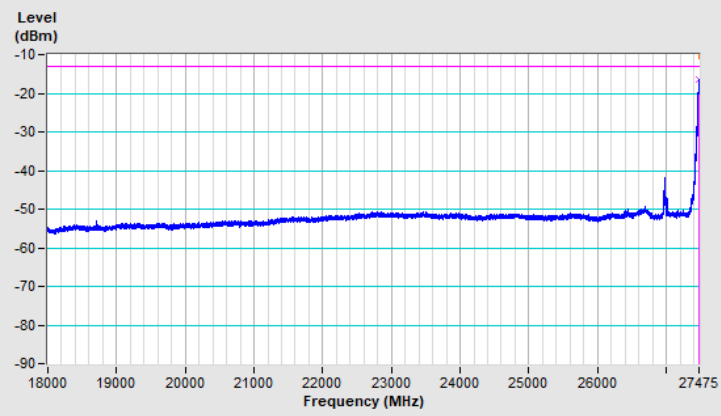
18GHz ~ 27.475GHz:

Beam ID	147	Frequency Range	18GHz ~ 27.475GHz
Channel	Low	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	27474.50	-16.43	-13.00	-3.43	1.41 H	350	85.54	-101.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

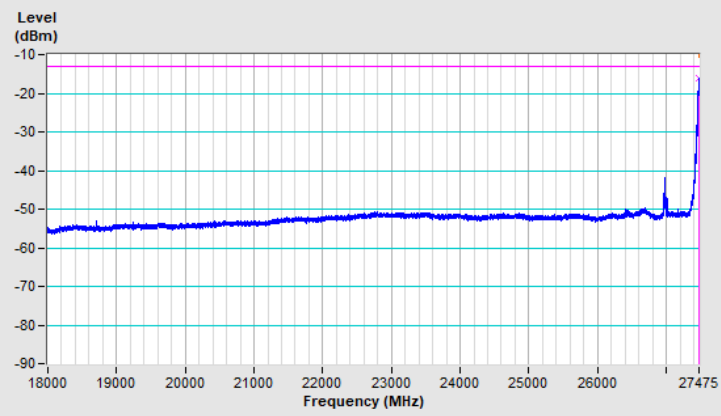


Beam ID	19	Frequency Range	18GHz ~ 27.475GHz
Channel	Low	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	27475.00	-16.05	-13.00	-3.05	1.48 V	226	85.92	-101.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

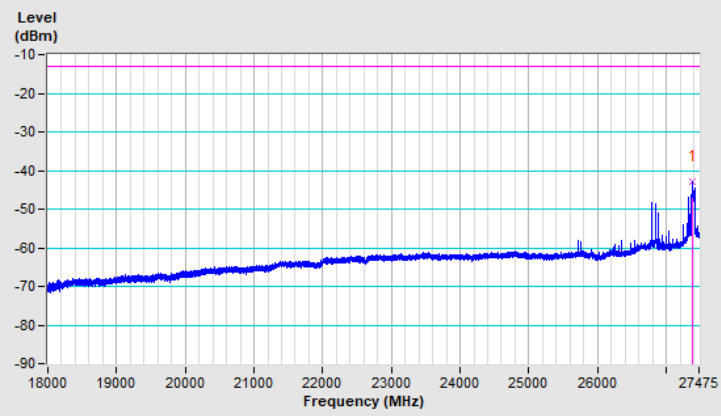


Beam ID	147	Frequency Range	18GHz ~ 27.475GHz
Channel	Mid	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	27376.93	-43.05	-13.00	-30.05	1.69 H	220	58.89	-101.94

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

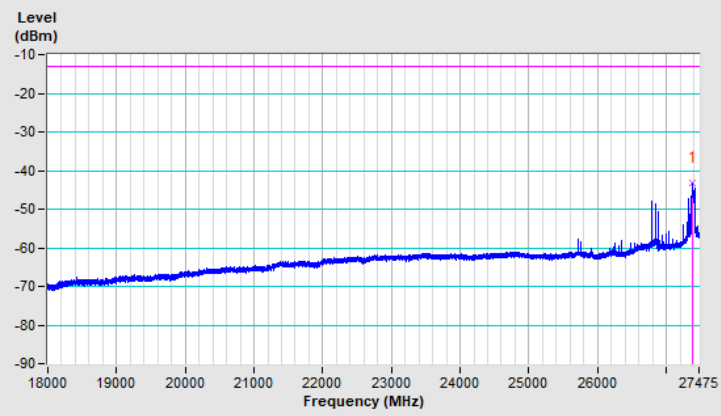


Beam ID	19	Frequency Range	18GHz ~ 27.475GHz
Channel	Mid	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	27376.93	-43.32	-13.00	-30.32	1.29 V	337	58.62	-101.94

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

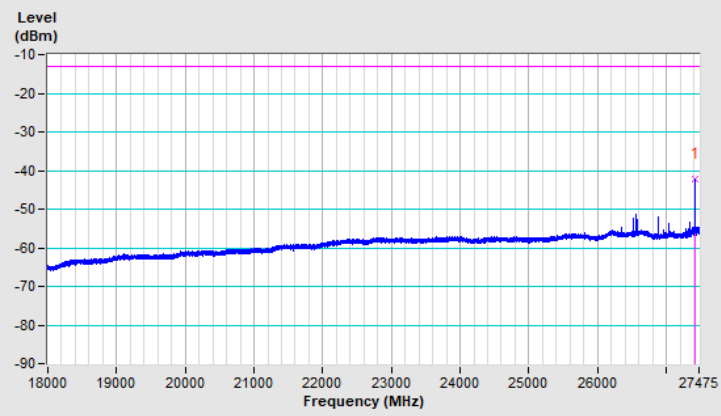


Beam ID	147	Frequency Range	18GHz ~ 27.475GHz
Channel	High	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	27417.68	-42.06	-13.00	-29.06	1.62 H	317	59.92	-101.98

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

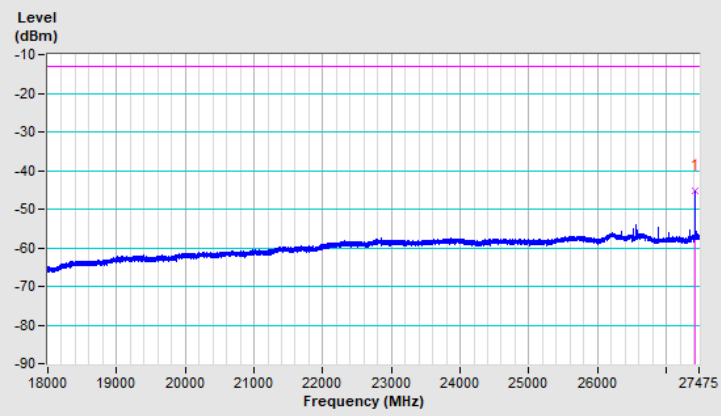


Beam ID	19	Frequency Range	18GHz ~ 27.475GHz
Channel	High	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	27417.68	-45.18	-13.00	-32.18	1.48 V	265	56.80	-101.98

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.



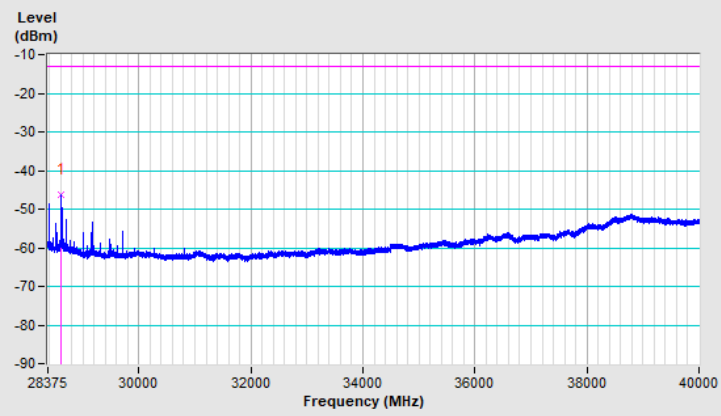
28.375GHz ~ 40.000GHz

Beam ID	147	Frequency Range	28.375GHz ~ 40.000GHz
Channel	Low	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	28620.87	-46.24	-13.00	-33.24	1.36 H	210	55.71	-101.95

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

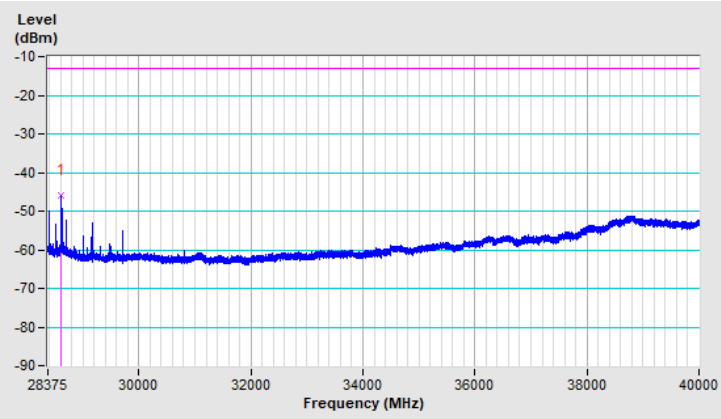


Beam ID	19	Frequency Range	28.375GHz ~ 40.000GHz
Channel	Low	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	28620.87	-46.09	-13.00	-33.09	1.46 V	287	55.86	-101.95

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

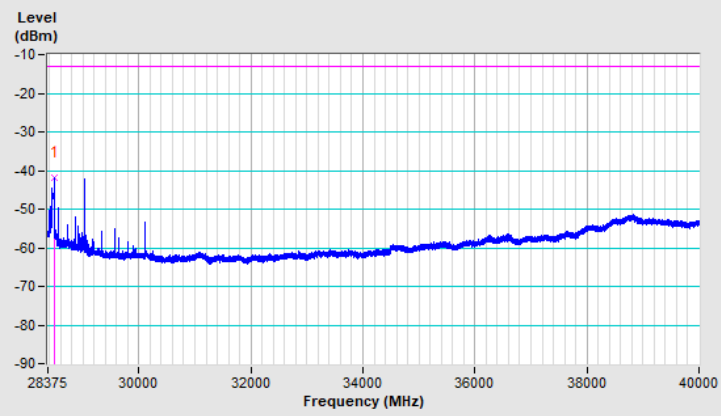


Beam ID	147	Frequency Range	28.375GHz ~ 40.000GHz
Channel	Mid	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	28492.41	-41.76	-13.00	-28.76	1.46 H	103	60.41	-102.17

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

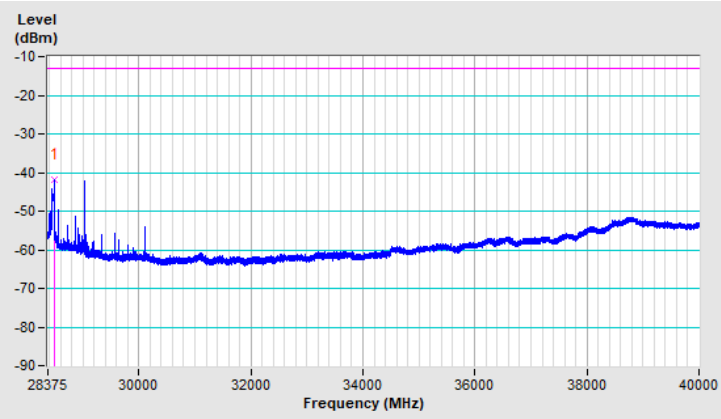


Beam ID	19	Frequency Range	28.375GHz ~ 40.000GHz
Channel	Mid	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	28492.41	-41.92	-13.00	-28.92	1.44 V	210	60.25	-102.17

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

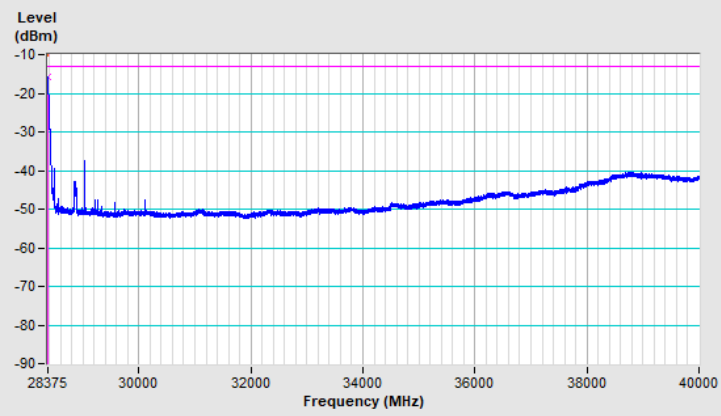


Beam ID	147	Frequency Range	28.375GHz ~ 40.000GHz
Channel	High	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	28375.00	-15.92	-13.00	-2.92	1.37 H	45	86.21	-102.13

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

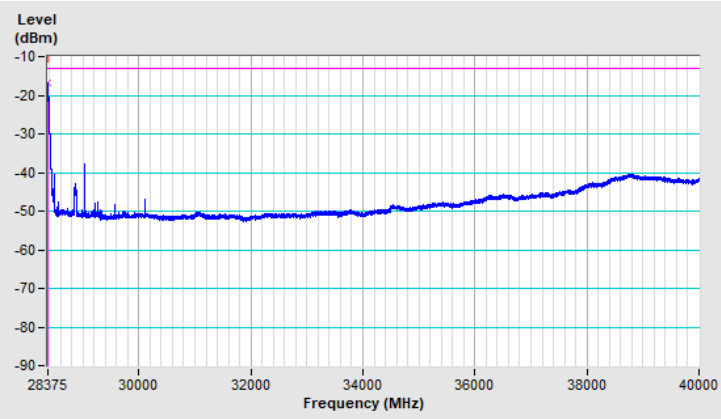


Beam ID	19	Frequency Range	28.375GHz ~ 40.000GHz
Channel	High	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	28375.00	-16.76	-13.00	-3.76	1.46 V	225	85.37	-102.13

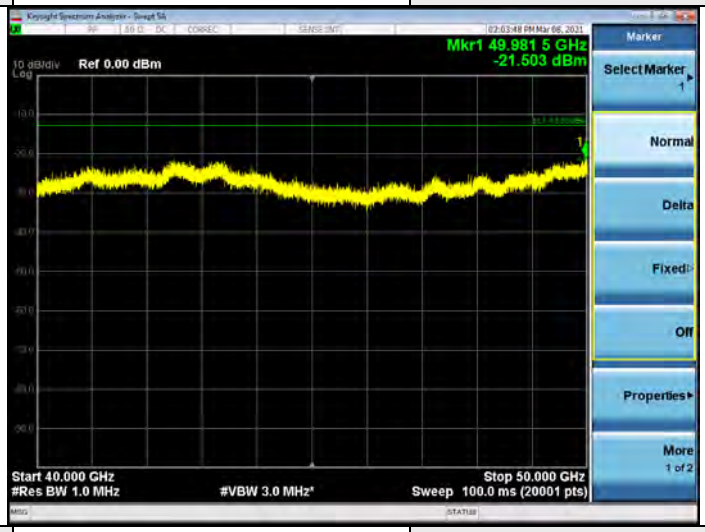
Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

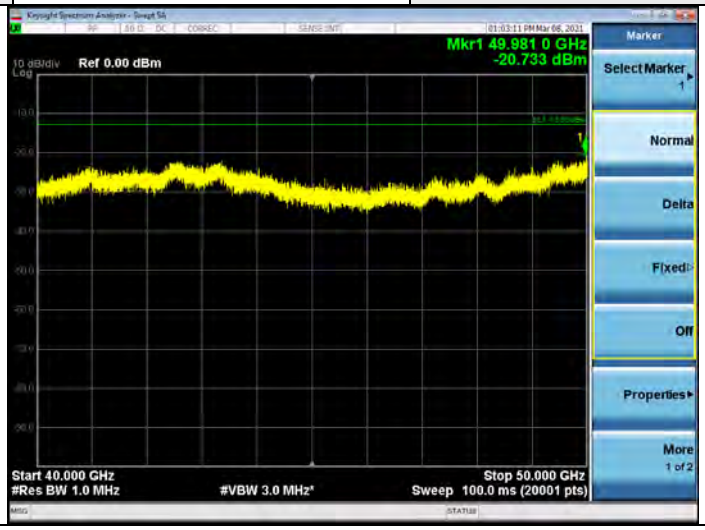


40GHz ~ 50GHz:

Band	n261	Beam ID	147
Frequency Range	40GHz-50GHz	Channel	Low
Antenna polarity	Horizontal	Test distance	3m

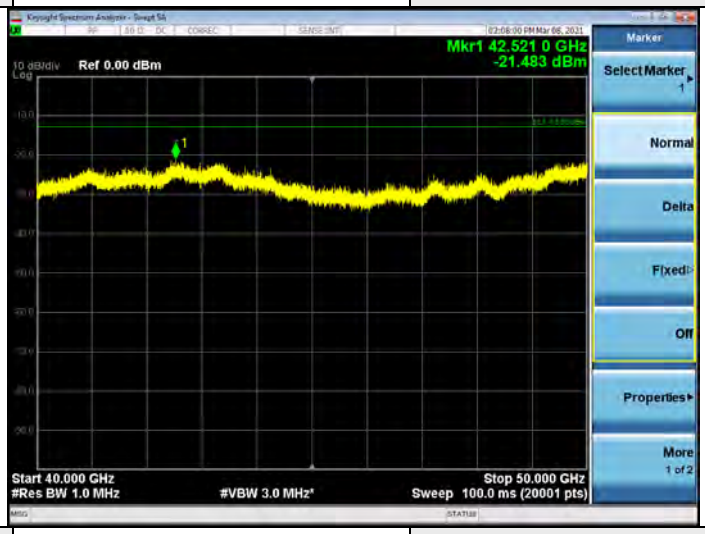


Band	n261	Beam ID	19
Frequency Range	40GHz-50GHz	Channel	Low
Antenna polarity	Vertical	Test distance	3m

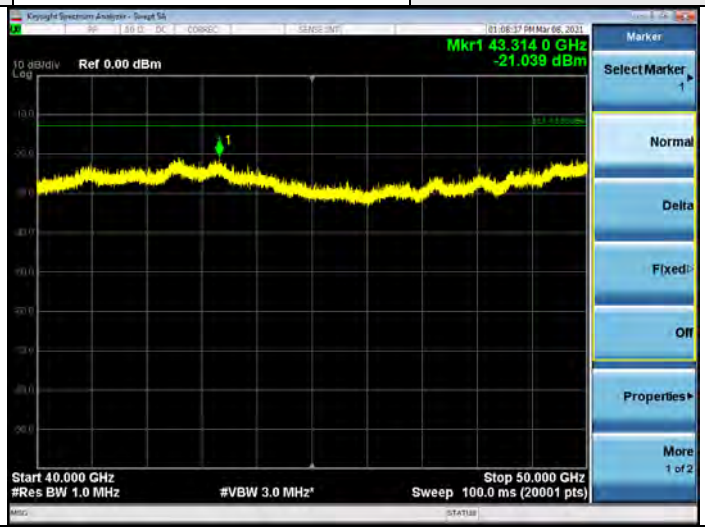


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.

Band	n261	Beam ID	147
Frequency Range	40GHz-50GHz	Channel	Middle
Antenna polarity	Horizontal	Test distance	3m



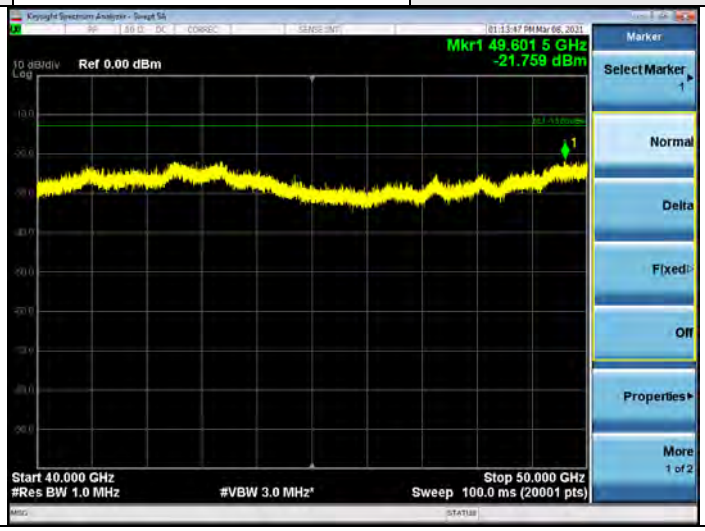
Band	n261	Beam ID	19
Frequency Range	40GHz-50GHz	Channel	Middle
Antenna polarity	Vertical	Test distance	3m



Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.

Band	n261	Beam ID	147
Frequency Range	40GHz-50GHz	Channel	High
Antenna polarity	Horizontal	Test distance	3m

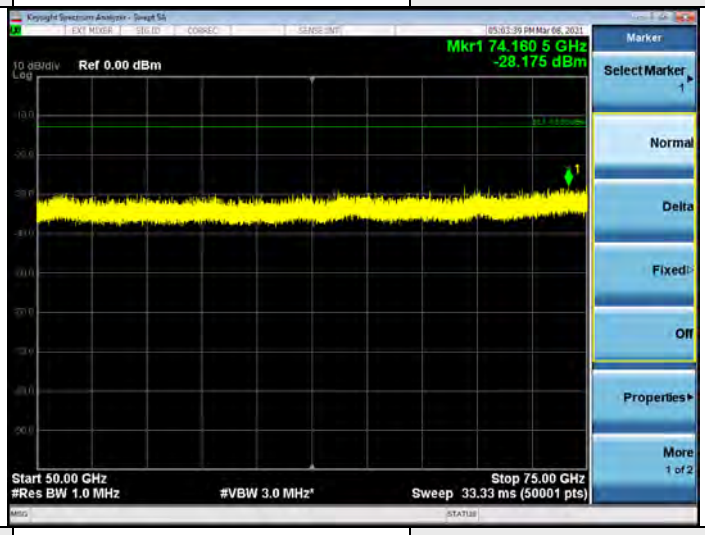
Band	n261	Beam ID	19
Frequency Range	40GHz-50GHz	Channel	High
Antenna polarity	Vertical	Test distance	3m



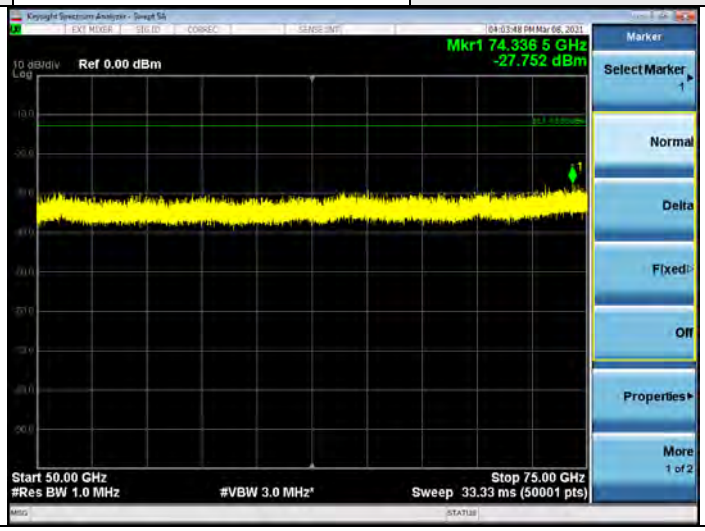
Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.

50GHz ~ 75GHz:

Band	n261	Beam ID	147
Frequency Range	50GHz-75GHz	Channel	Low
Antenna polarity	Horizontal	Test distance	3m

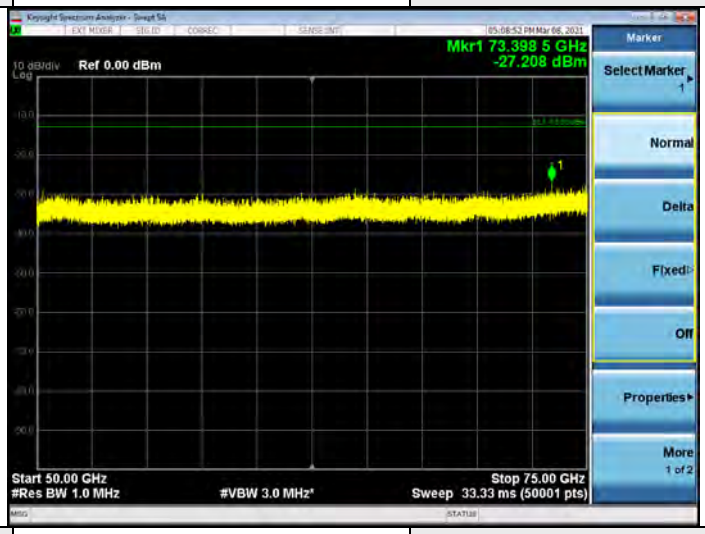


Band	n261	Beam ID	19
Frequency Range	50GHz-75GHz	Channel	Low
Antenna polarity	Vertical	Test distance	3m

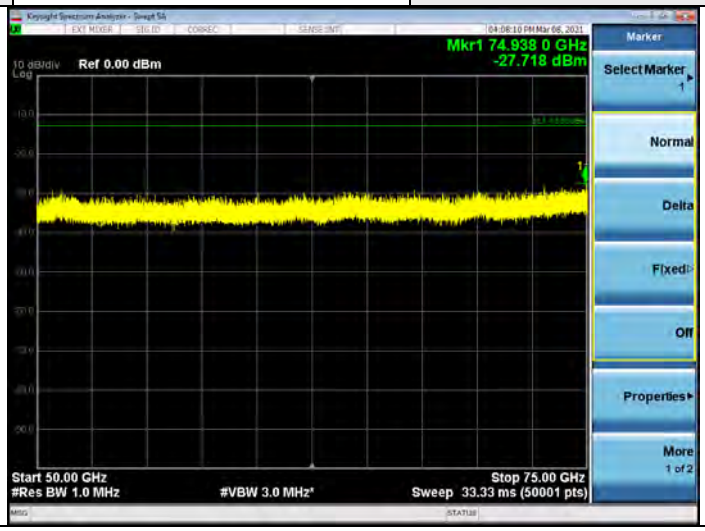


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n261	Beam ID	147
Frequency Range	50GHz-75GHz	Channel	Middle
Antenna polarity	Horizontal	Test distance	3m

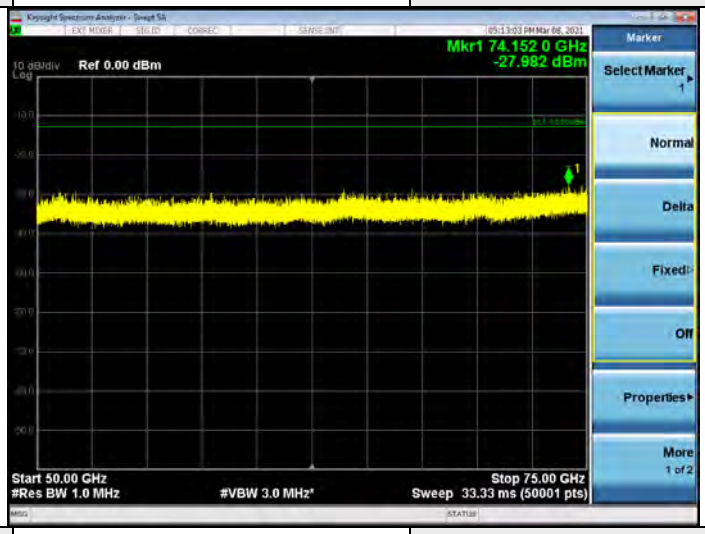


Band	n261	Beam ID	19
Frequency Range	50GHz-75GHz	Channel	Middle
Antenna polarity	Vertical	Test distance	3m

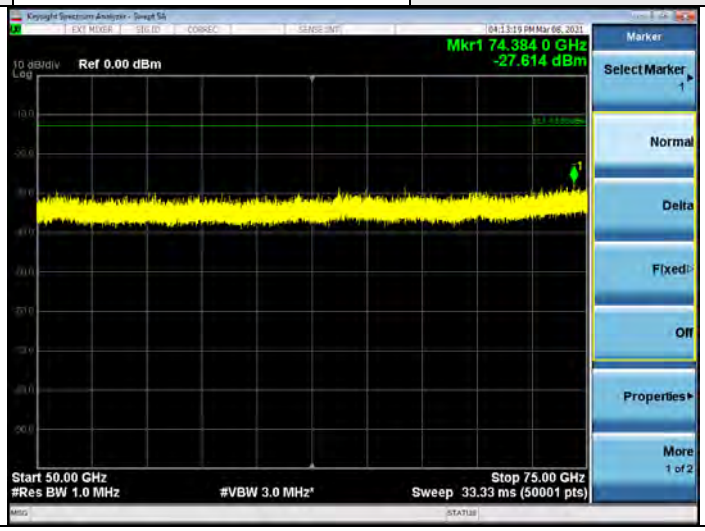


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n261	Beam ID	147
Frequency Range	50GHz-75GHz	Channel	High
Antenna polarity	Horizontal	Test distance	3m



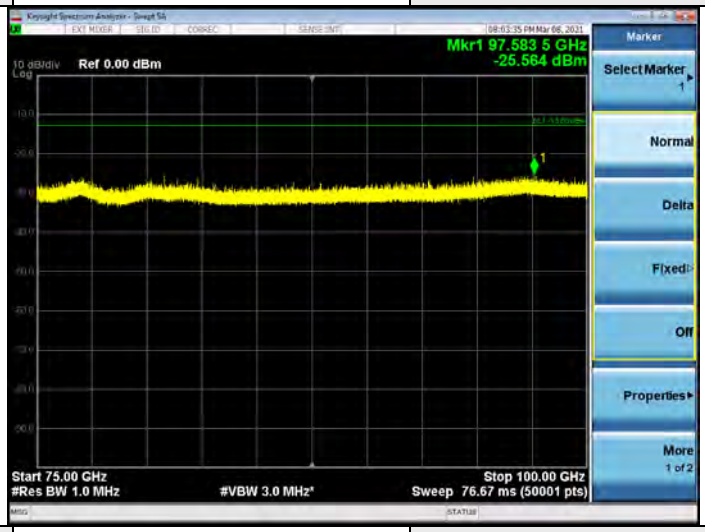
Band	n261	Beam ID	19
Frequency Range	50GHz-75GHz	Channel	High
Antenna polarity	Vertical	Test distance	3m



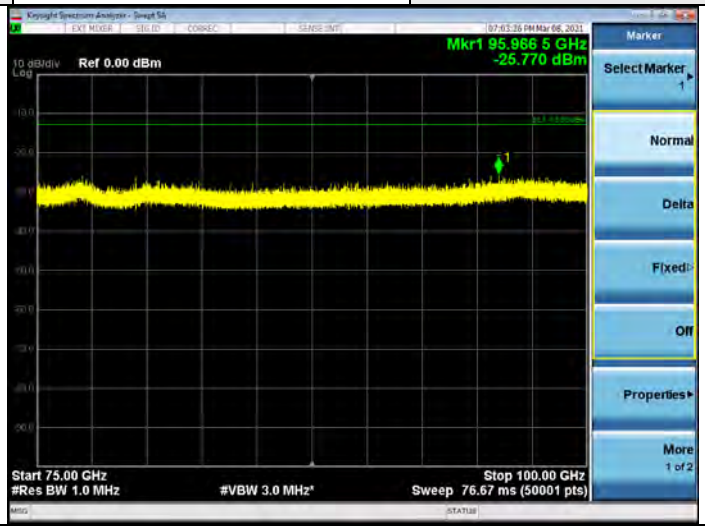
Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

75GHz ~ 100GHz:

Band	n261	Beam ID	147
Frequency Range	75GHz-100GHz	Channel	Low
Antenna polarity	Horizontal	Test distance	3m

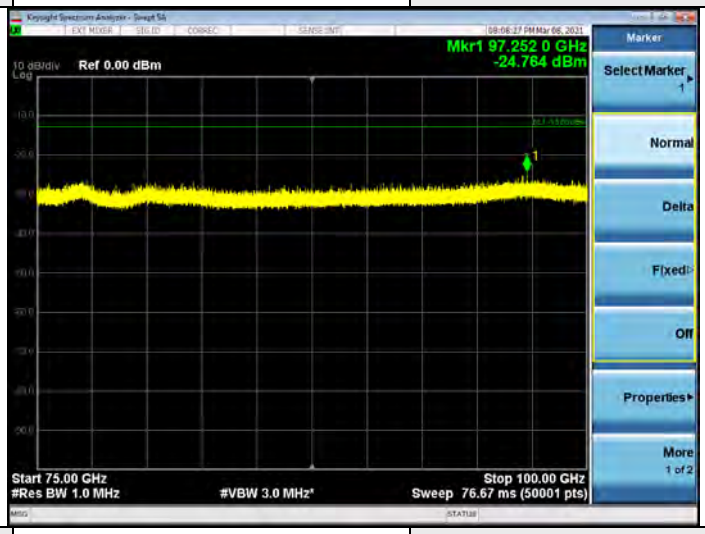


Band	n261	Beam ID	19
Frequency Range	75GHz-100GHz	Channel	Low
Antenna polarity	Vertical	Test distance	3m

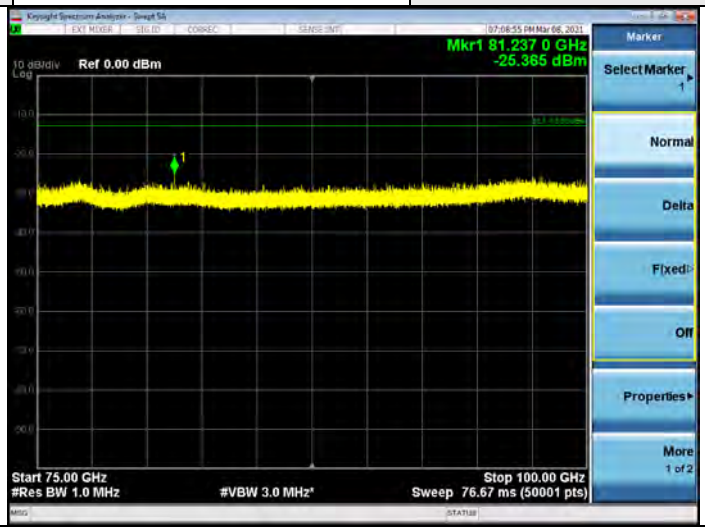


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n261	Beam ID	147
Frequency Range	75GHz-100GHz	Channel	Middle
Antenna polarity	Horizontal	Test distance	3m

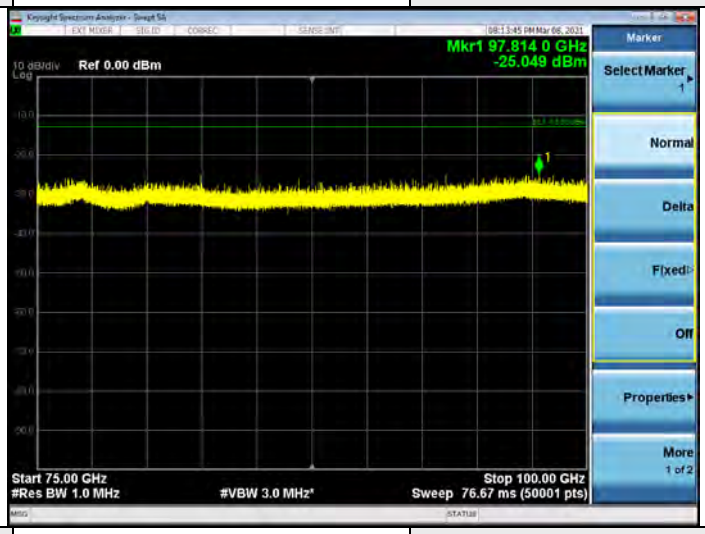


Band	n261	Beam ID	19
Frequency Range	75GHz-100GHz	Channel	Middle
Antenna polarity	Vertical	Test distance	3m

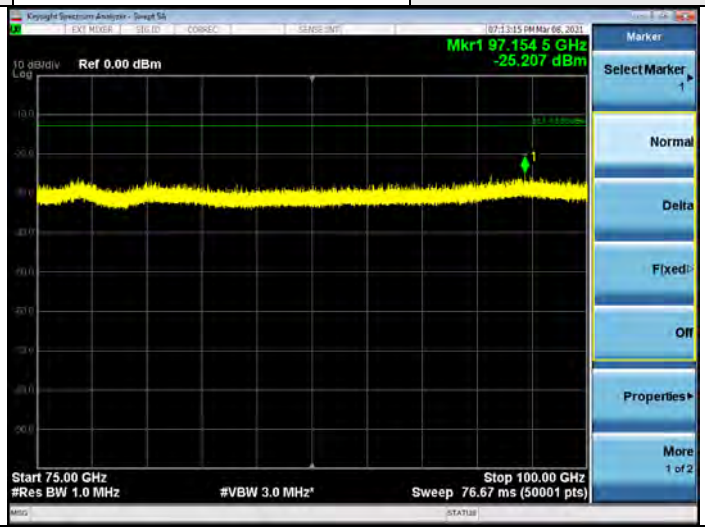


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n261	Beam ID	147
Frequency Range	75GHz-100GHz	Channel	High
Antenna polarity	Horizontal	Test distance	3m



Band	n261	Beam ID	19
Frequency Range	75GHz-100GHz	Channel	High
Antenna polarity	Vertical	Test distance	3m



Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Summary of MIMO Out-of-Band Spurious Emission EIRP:

To address compliance of MIMO spurious emission per KDB 662911 D01, the MIMO spurious emission EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm.

EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)						
Test Frequency Range	Channel	EIRP (H Beam)	EIRP (V Beam)	EIRP (MIMO)	Limit (dBm)	Margin (dB)
Below 1GHz	2071249	-43.80	-35.70	-35.07	-13	-22.07
	2077891	-44.00	-33.30	-32.95	-13	-19.95
	2084581	-44.20	-33.80	-33.42	-13	-20.42
1GHz to 18GHz	2071249	-25.30	-24.90	-22.09	-13	-9.09
	2077891	-25.70	-25.00	-22.33	-13	-9.33
	2084581	-24.20	-25.30	-21.70	-13	-8.70
18GHz to 27.475GHz	**2071249**	**-16.43**	**-16.05**	**-13.23**	**-13**	**-0.23**
	2077891	-43.05	-43.32	-40.17	-13	-27.17
	2084581	-42.06	-45.18	-40.34	-13	-27.34
28.375GHz to 40GHz	2071249	-46.24	-46.09	-43.15	-13	-30.15
	2077891	-41.76	-41.92	-38.83	-13	-25.83
	2084581	-15.92	-16.76	-13.31	-13	-0.31
40GHz to 50GHz	2071249	-21.50	-20.73	-18.09	-13	-5.09
	2077891	-21.48	-21.03	-18.24	-13	-5.24
	2084581	-20.53	-21.75	-18.09	-13	-5.09
50GHz to 75GHz	2071249	-28.17	-27.75	-24.94	-13	-11.94
	2077891	-27.20	-27.71	-24.44	-13	-11.44
	2084581	-27.98	-27.61	-24.78	-13	-11.78
75GHz to 100GHz	2071249	-25.56	-25.77	-22.65	-13	-9.65
	2077891	-24.76	-25.36	-22.04	-13	-9.04
	2084581	-25.04	-25.20	-22.11	-13	-9.11

n261

Bandwidth: 100MHz

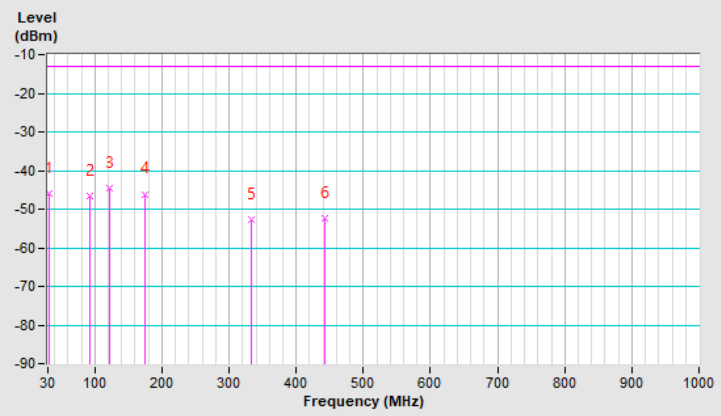
Below 1GHz Data:

Beam ID	147	Frequency Range	Below 1000 MHz
Channel	Low	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-45.80	-13.00	-32.80	2.00 H	178	69.30	-115.10
2	93.26	-46.70	-13.00	-33.70	1.51 H	98	72.90	-119.60
3	122.78	-44.70	-13.00	-31.70	1.51 H	256	70.80	-115.50
4	174.80	-46.10	-13.00	-33.10	1.51 H	154	68.20	-114.30
5	333.65	-52.70	-13.00	-39.70	1.00 H	295	59.30	-112.00
6	441.90	-52.50	-13.00	-39.50	2.00 H	224	56.60	-109.10

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

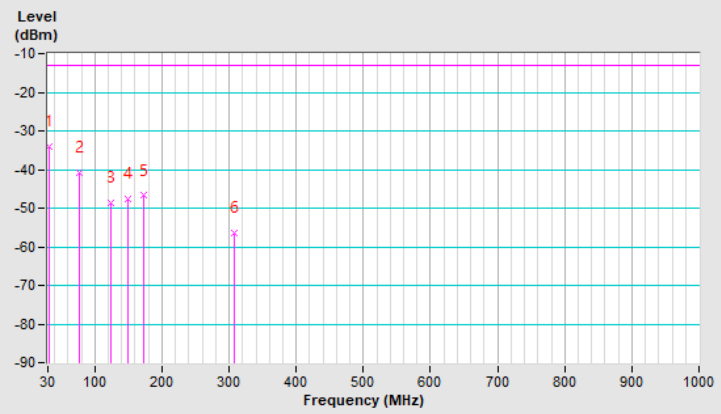


Beam ID	19	Frequency Range	Below 1000 MHz
Channel	Low	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-33.90	-13.00	-20.90	1.00 V	273	81.20	-115.10
2	76.39	-40.90	-13.00	-27.90	1.00 V	1	77.10	-118.00
3	124.19	-48.50	-13.00	-35.50	1.00 V	224	66.90	-115.40
4	149.49	-47.50	-13.00	-34.50	1.00 V	232	65.80	-113.30
5	171.99	-46.80	-13.00	-33.80	1.00 V	155	67.20	-114.00
6	308.35	-56.30	-13.00	-43.30	1.00 V	258	56.40	-112.70

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

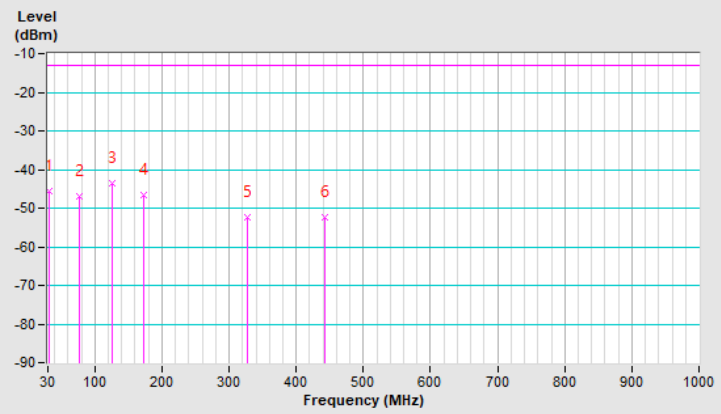


Beam ID	147	Frequency Range	Below 1000 MHz
Channel	Mid	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-45.50	-13.00	-32.50	1.99 H	163	69.60	-115.10
2	77.80	-46.90	-13.00	-33.90	1.99 H	119	71.40	-118.30
3	125.59	-43.60	-13.00	-30.60	1.99 H	269	71.60	-115.20
4	173.39	-46.50	-13.00	-33.50	1.00 H	174	67.70	-114.20
5	326.62	-52.40	-13.00	-39.40	1.00 H	293	59.70	-112.10
6	441.90	-52.30	-13.00	-39.30	1.99 H	222	56.80	-109.10

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

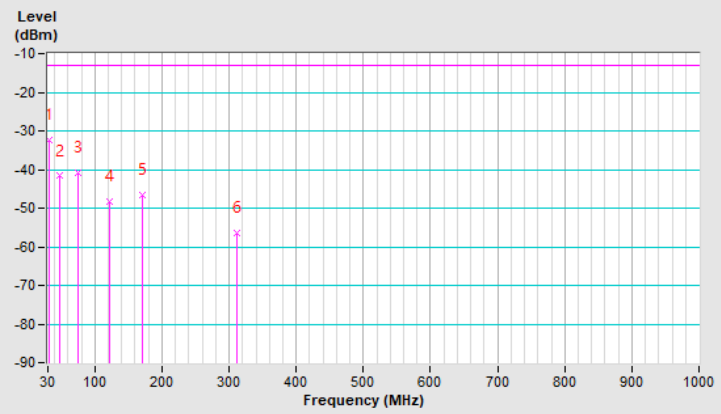


Beam ID	19	Frequency Range	Below 1000 MHz
Channel	Mid	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-32.40	-13.00	-19.40	1.00 V	195	82.70	-115.10
2	46.87	-41.70	-13.00	-28.70	1.00 V	182	72.20	-113.90
3	74.99	-40.90	-13.00	-27.90	1.00 V	9	76.60	-117.50
4	122.78	-48.20	-13.00	-35.20	1.50 V	249	67.30	-115.50
5	170.58	-46.60	-13.00	-33.60	1.50 V	2	67.30	-113.90
6	311.16	-56.50	-13.00	-43.50	1.00 V	256	56.10	-112.60

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

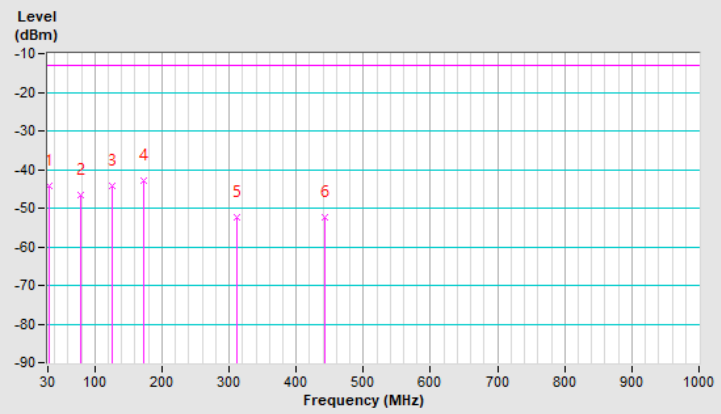


Beam ID	147	Frequency Range	Below 1000 MHz
Channel	High	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-44.30	-13.00	-31.30	2.00 H	156	70.80	-115.10
2	79.20	-46.50	-13.00	-33.50	2.00 H	107	72.10	-118.60
3	125.59	-44.30	-13.00	-31.30	1.51 H	247	70.90	-115.20
4	171.99	-43.00	-13.00	-30.00	1.51 H	176	71.00	-114.00
5	312.57	-52.30	-13.00	-39.30	1.01 H	193	60.30	-112.60
6	441.90	-52.40	-13.00	-39.40	2.00 H	224	56.70	-109.10

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

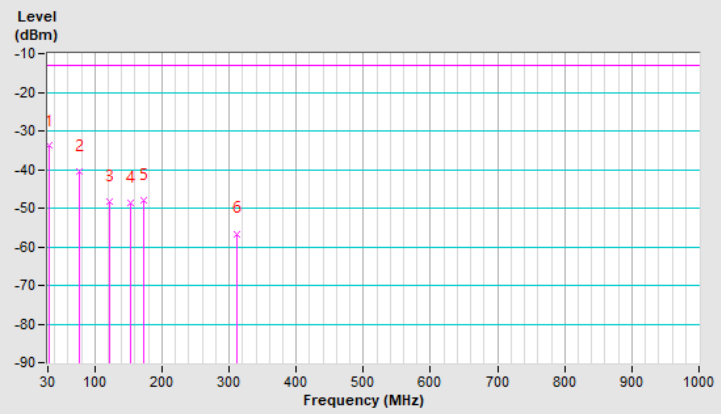


Beam ID	19	Frequency Range	Below 1000 MHz
Channel	High	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	32.81	-33.90	-13.00	-20.90	1.00 V	126	81.20	-115.10
2	76.39	-40.50	-13.00	-27.50	1.00 V	6	77.50	-118.00
3	122.78	-48.20	-13.00	-35.20	1.00 V	238	67.30	-115.50
4	152.30	-48.50	-13.00	-35.50	1.50 V	246	64.80	-113.30
5	171.99	-47.90	-13.00	-34.90	1.00 V	4	66.10	-114.00
6	311.16	-56.60	-13.00	-43.60	1.00 V	289	56.00	-112.60

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.



Above 1GHz Data:

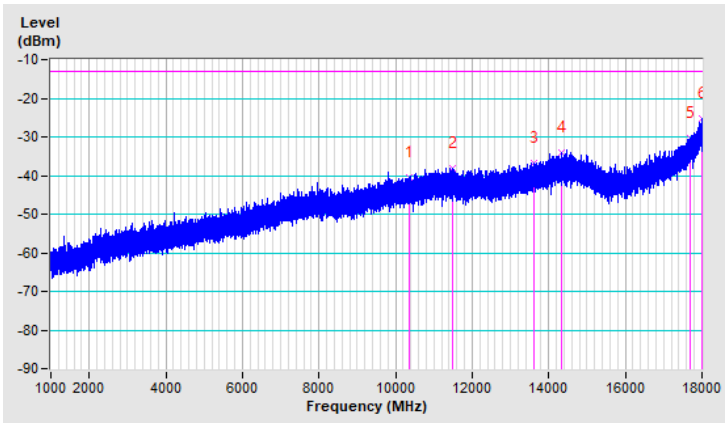
1GHz ~ 18GHz:

Beam ID	147	Frequency Range	1GHz ~ 18GHz
Channel	Low	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	10353.40	-40.60	-13.00	-27.60	1.50 H	115	46.10	-86.70
2	11479.23	-38.30	-13.00	-25.30	2.00 H	193	47.70	-86.00
3	13602.95	-36.70	-13.00	-23.70	1.50 H	258	49.20	-85.90
4	14326.30	-34.10	-13.00	-21.10	1.50 H	299	51.00	-85.10
5	17692.72	-30.40	-13.00	-17.40	1.00 H	55	52.80	-83.20
6	17998.30	-25.30	-13.00	-12.30	1.50 H	235	53.10	-78.40

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

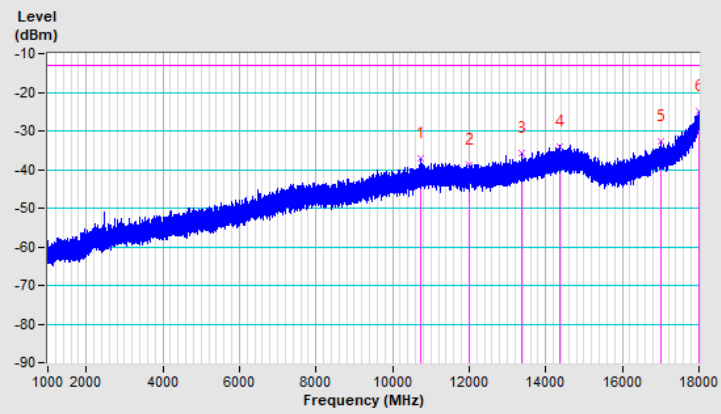


Beam ID	19	Frequency Range	1GHz ~ 18GHz
Channel	Low	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	10748.65	-37.10	-13.00	-24.10	1.00 V	74	48.90	-86.00
2	12003.25	-38.70	-13.00	-25.70	1.50 V	270	47.90	-86.60
3	13361.98	-35.90	-13.00	-22.90	1.50 V	26	50.30	-86.20
4	14378.58	-33.90	-13.00	-20.90	2.00 V	132	51.30	-85.20
5	16989.35	-32.80	-13.00	-19.80	2.00 V	50	53.20	-86.00
6	17999.15	-24.90	-13.00	-11.90	1.50 V	308	53.50	-78.40

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

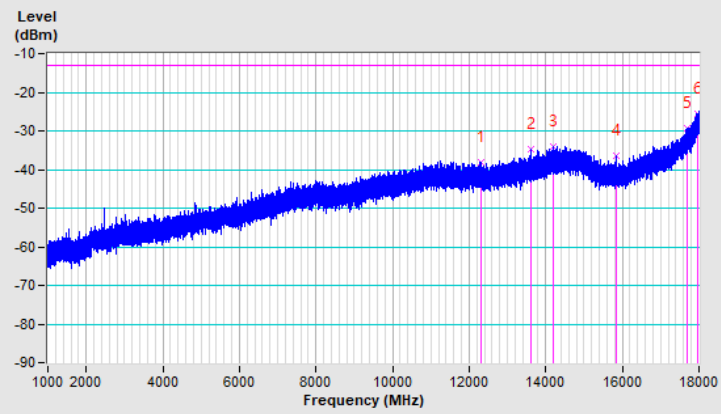


Beam ID	147	Frequency Range	1GHz ~ 18GHz
Channel	Mid	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	12296.92	-38.30	-13.00	-25.30	1.50 H	29	48.50	-86.80
2	13624.62	-34.60	-13.00	-21.60	1.50 H	247	51.40	-86.00
3	14195.40	-34.00	-13.00	-21.00	1.50 H	189	51.20	-85.20
4	15837.60	-36.40	-13.00	-23.40	2.00 H	293	52.80	-89.20
5	17707.60	-29.30	-13.00	-16.30	1.50 H	175	53.80	-83.10
6	17982.15	-25.60	-13.00	-12.60	2.00 H	111	53.20	-78.80

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

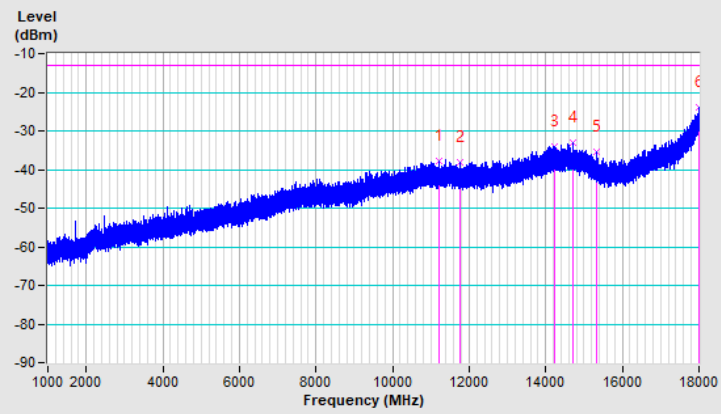


Beam ID	19	Frequency Range	1GHz ~ 18GHz
Channel	Mid	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	11205.52	-37.90	-13.00	-24.90	1.50 V	159	48.50	-86.40
2	11767.80	-38.00	-13.00	-25.00	2.00 V	11	48.80	-86.80
3	14244.27	-34.10	-13.00	-21.10	2.00 V	14	51.10	-85.20
4	14709.23	-33.00	-13.00	-20.00	2.00 V	355	52.60	-85.60
5	15328.87	-35.40	-13.00	-22.40	1.50 V	165	53.40	-88.80
6	17991.92	-23.90	-13.00	-10.90	1.50 V	339	54.60	-78.50

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

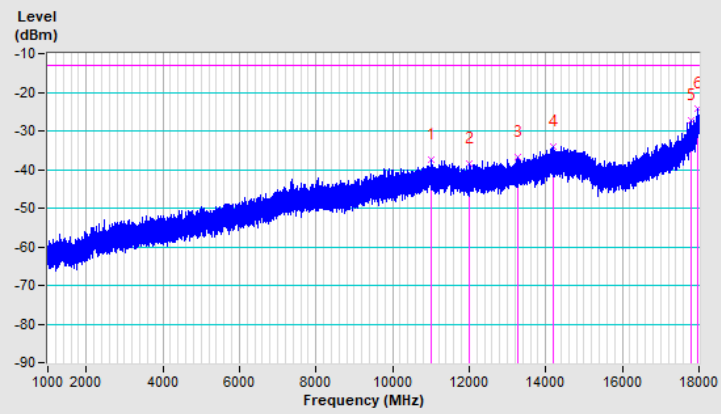


Beam ID	147	Frequency Range	1GHz ~ 18GHz
Channel	High	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	11019.37	-37.60	-13.00	-24.60	1.50 H	119	48.30	-85.90
2	12009.62	-38.40	-13.00	-25.40	1.50 H	285	48.20	-86.60
3	13268.48	-36.90	-13.00	-23.90	2.00 H	123	49.60	-86.50
4	14210.27	-33.90	-13.00	-20.90	2.00 H	175	51.30	-85.20
5	17788.78	-27.20	-13.00	-14.20	1.50 H	276	55.20	-82.40
6	17959.62	-24.10	-13.00	-11.10	1.50 H	185	55.20	-79.30

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

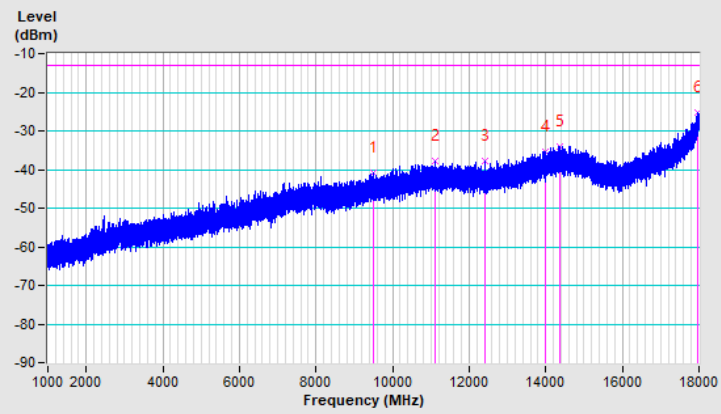


Beam ID	19	Frequency Range	1GHz ~ 18GHz
Channel	High	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	9486.83	-40.90	-13.00	-27.90	1.50 V	124	46.70	-87.60
2	11115.42	-37.90	-13.00	-24.90	1.50 V	222	48.30	-86.20
3	12414.65	-37.90	-13.00	-24.90	1.00 V	76	49.30	-87.20
4	13996.92	-35.30	-13.00	-22.30	2.00 V	49	50.50	-85.80
5	14371.35	-34.00	-13.00	-21.00	2.00 V	338	51.20	-85.20
6	17965.58	-25.30	-13.00	-12.30	2.00 V	215	53.90	-79.20

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.



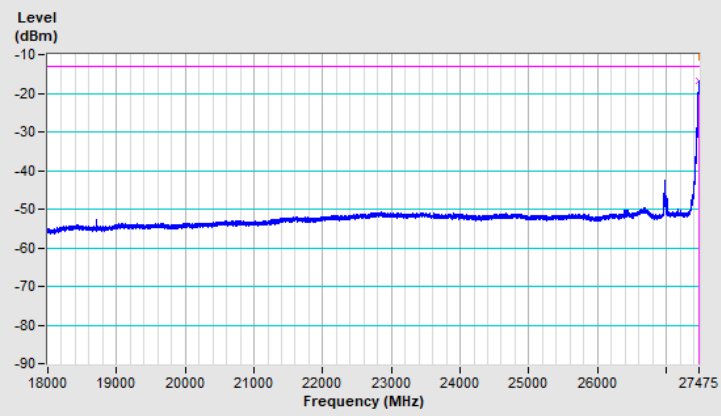
18GHz ~ 27.475GHz:

Beam ID	147	Frequency Range	18GHz ~ 27.475GHz
Channel	Low	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	27475.00	-16.66	-13.00	-3.66	1.52 H	210	85.31	-101.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

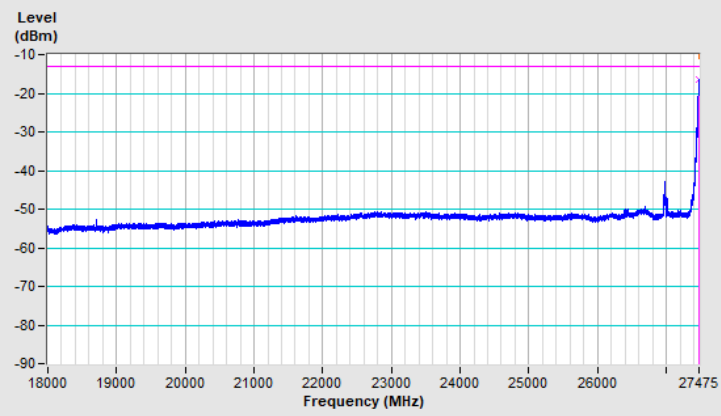


Beam ID	19	Frequency Range	18GHz ~ 27.475GHz
Channel	Low	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	27474.00	-16.53	-13.00	-3.53	1.41 V	103	85.44	-101.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

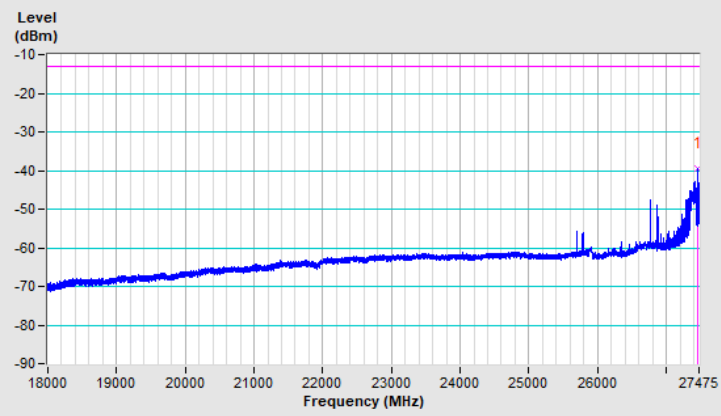


Beam ID	147	Frequency Range	18GHz ~ 27.475GHz
Channel	Mid	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	27462.68	-39.39	-13.00	-26.39	1.72 H	231	62.58	-101.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

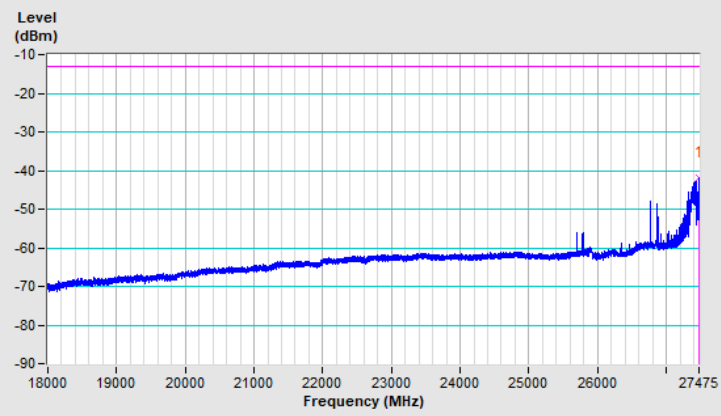


Beam ID	19	Frequency Range	18GHz ~ 27.475GHz
Channel	Mid	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	27472.16	-41.80	-13.00	-28.80	1.23 V	290	60.17	-101.97

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

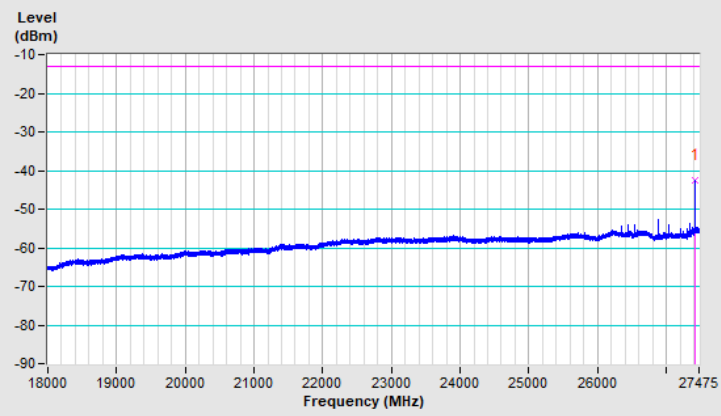


Beam ID	147	Frequency Range	18GHz ~ 27.475GHz
Channel	High	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	27417.20	-42.61	-13.00	-29.61	1.45 H	217	59.37	-101.98

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

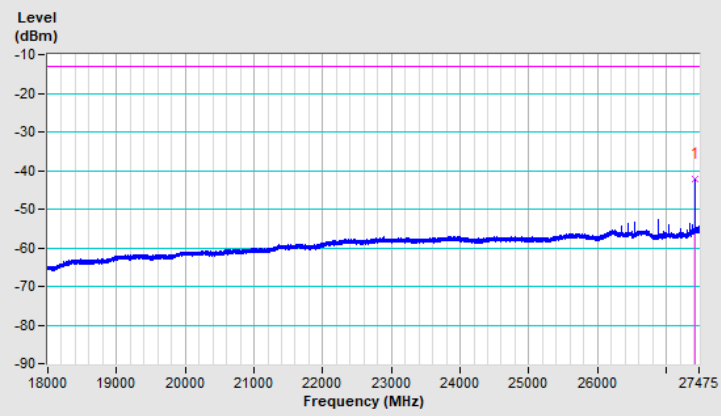


Beam ID	19	Frequency Range	18GHz ~ 27.475GHz
Channel	High	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	27417.68	-42.32	-13.00	-29.32	1.44 V	196	59.66	-101.98

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.



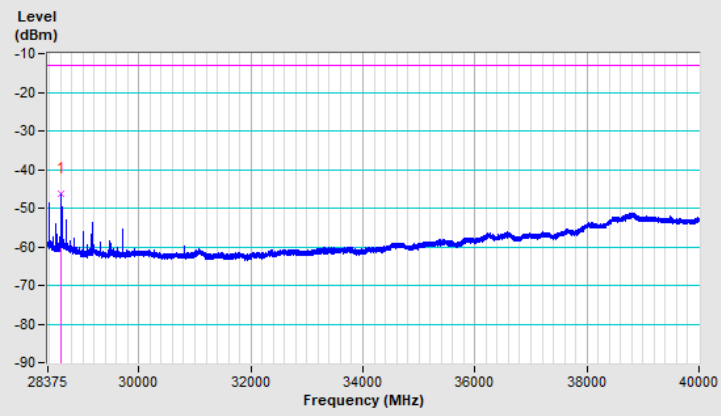
28.375GHz ~ 40GHz:

Beam ID	147	Frequency Range	28.375GHz ~ 40GHz
Channel	Low	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	28620.29	-46.30	-13.00	-33.30	1.61 H	220	55.65	-101.95

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

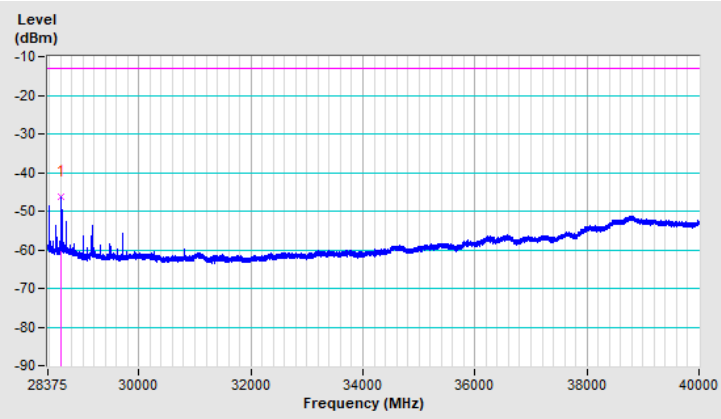


Beam ID	19	Frequency Range	28.375GHz ~ 40GHz
Channel	Low	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	28620.87	-46.32	-13.00	-33.32	1.33 V	146	55.63	-101.95

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

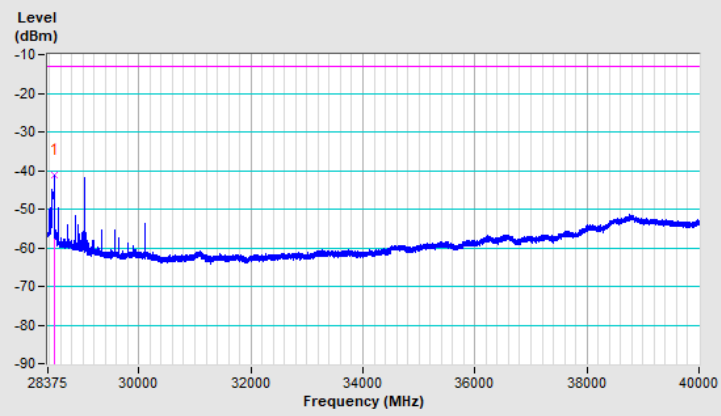


Beam ID	147	Frequency Range	28.375GHz ~ 40GHz
Channel	Mid	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	28492.41	-41.31	-13.00	-28.31	1.69 H	225	60.86	-102.17

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

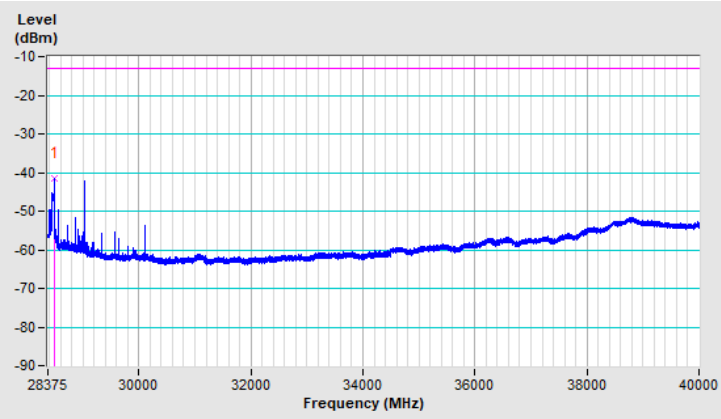


Beam ID	19	Frequency Range	28.375GHz ~ 40GHz
Channel	Mid	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	28492.41	-41.64	-13.00	-28.64	1.39 V	260	60.53	-102.17

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

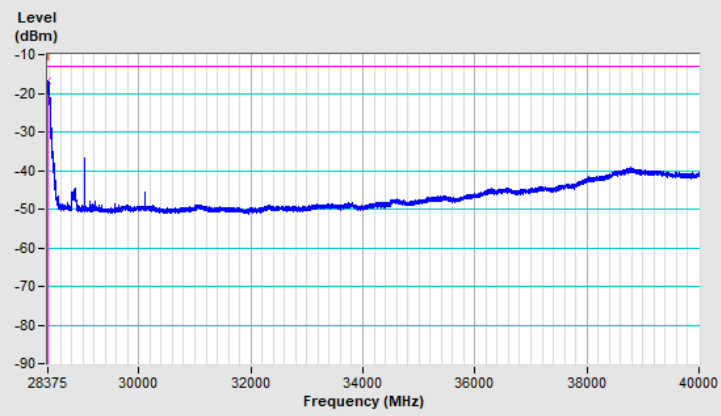


Beam ID	147	Frequency Range	28.375GHz ~ 40GHz
Channel	High	Polarity	Horizontal

Antenna Polarity & Test Distance : Horizontal at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	28380.81	-16.85	-13.00	-3.85	1.66 H	314	85.28	-102.13

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

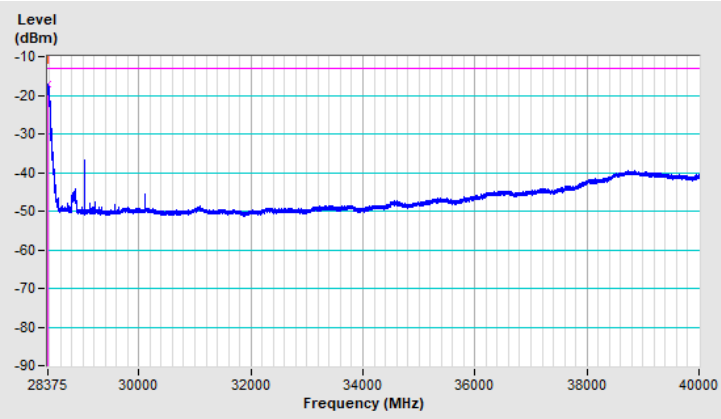


Beam ID	19	Frequency Range	28.375GHz ~ 40GHz
Channel	High	Polarity	Vertical

Antenna Polarity & Test Distance : Vertical at 2m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	28380.81	-16.95	-13.00	-3.95	1.46 V	201	85.18	-102.13

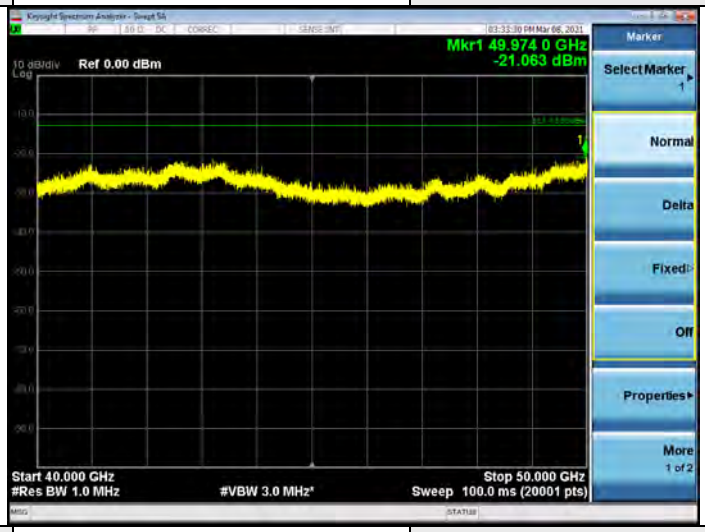
Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.
2. Margin value = EIRP – Limit value
3. The other EIRP levels were very low against the limit.

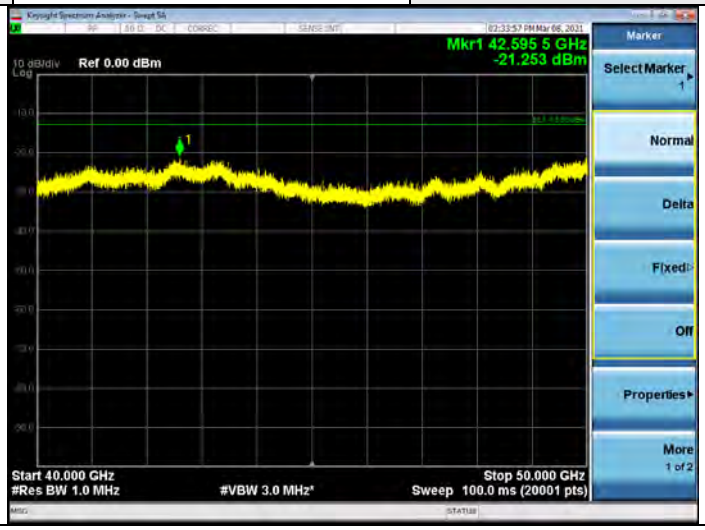


40GHz ~ 50GHz:

Band	n261	Beam ID	147
Frequency Range	40GHz-50GHz	Channel	Low
Antenna polarity	Horizontal	Test distance	3m



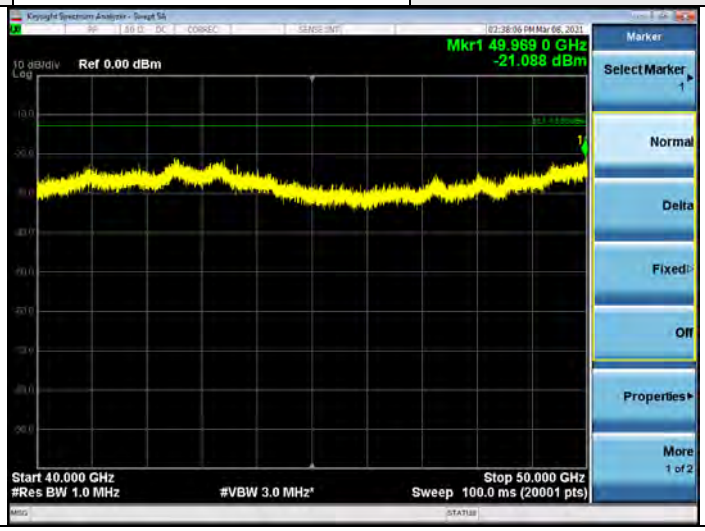
Band	n261	Beam ID	19
Frequency Range	40GHz-50GHz	Channel	Low
Antenna polarity	Vertical	Test distance	3m



Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.

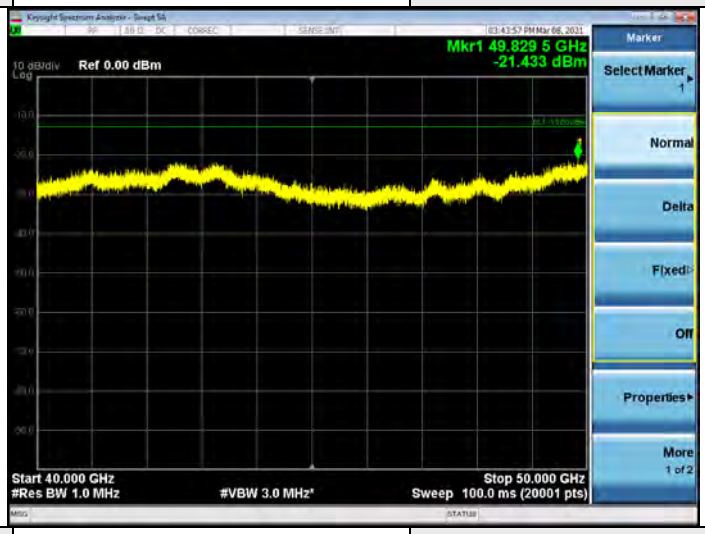
Band	n261	Beam ID	147
Frequency Range	40GHz-50GHz	Channel	Middle
Antenna polarity	Horizontal	Test distance	3m

Band	n261	Beam ID	19
Frequency Range	40GHz-50GHz	Channel	Middle
Antenna polarity	Vertical	Test distance	3m

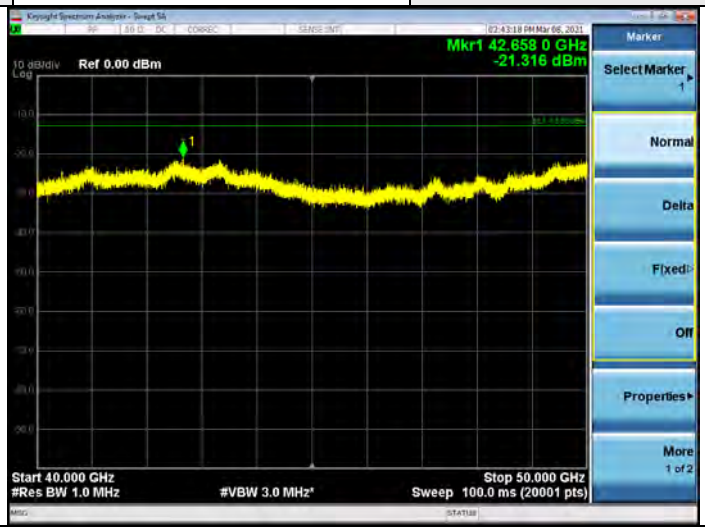


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.

Band	n261	Beam ID	147
Frequency Range	40GHz-50GHz	Channel	High
Antenna polarity	Horizontal	Test distance	3m



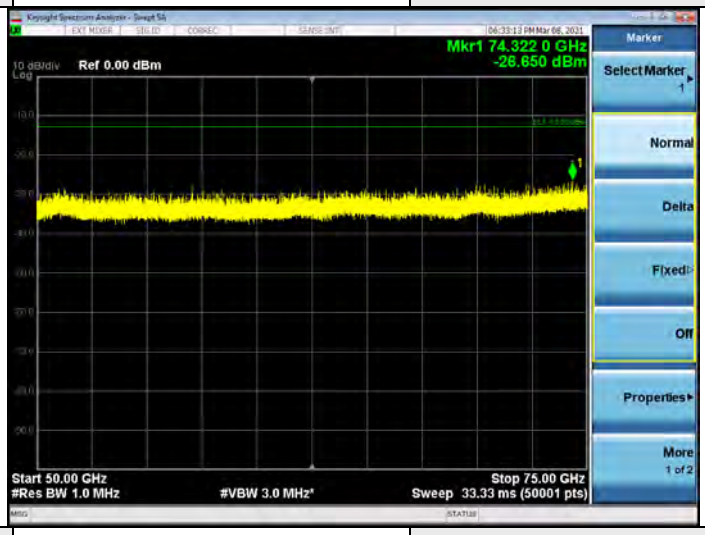
Band	n261	Beam ID	19
Frequency Range	40GHz-50GHz	Channel	High
Antenna polarity	Vertical	Test distance	3m



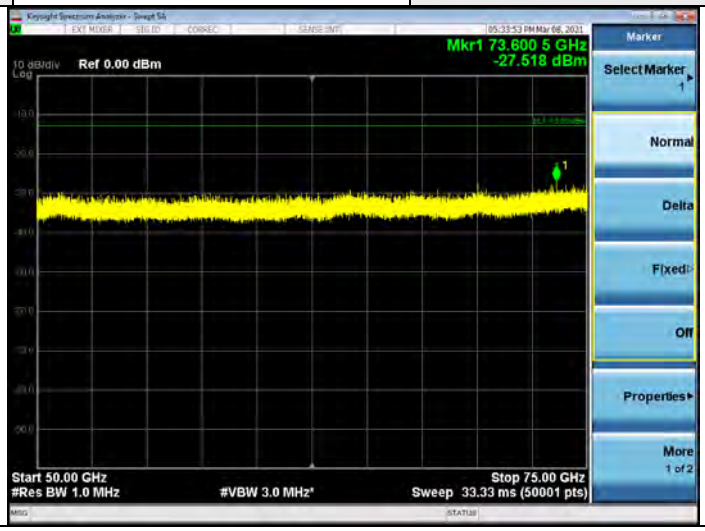
Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8.

50GHz ~ 75GHz:

Band	n261	Beam ID	147
Frequency Range	50GHz-75GHz	Channel	Low
Antenna polarity	Horizontal	Test distance	3m

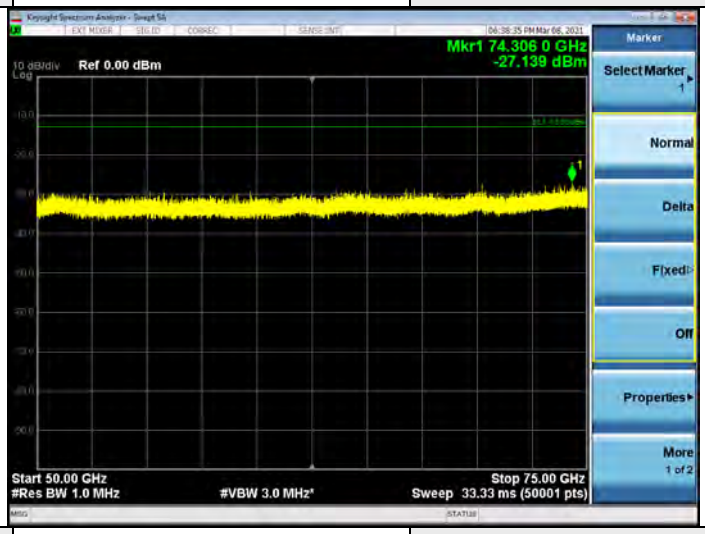


Band	n261	Beam ID	19
Frequency Range	50GHz-75GHz	Channel	Low
Antenna polarity	Vertical	Test distance	3m

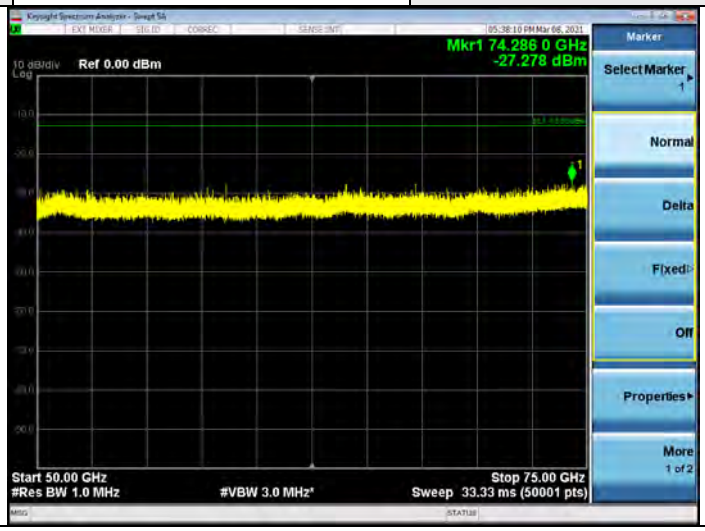


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n261	Beam ID	147
Frequency Range	50GHz-75GHz	Channel	Middle
Antenna polarity	Horizontal	Test distance	3m

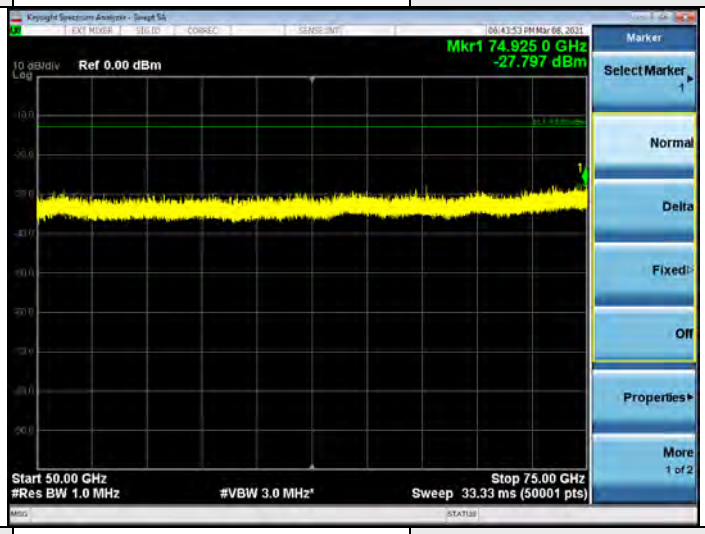


Band	n261	Beam ID	19
Frequency Range	50GHz-75GHz	Channel	Middle
Antenna polarity	Vertical	Test distance	3m

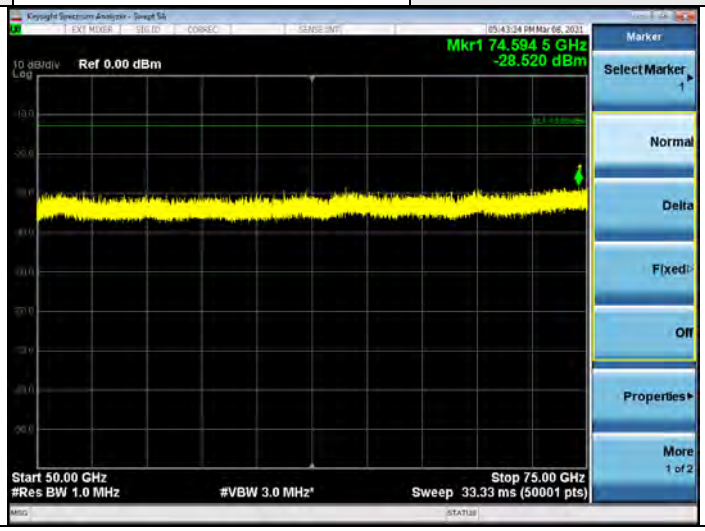


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n261	Beam ID	147
Frequency Range	50GHz-75GHz	Channel	High
Antenna polarity	Horizontal	Test distance	3m



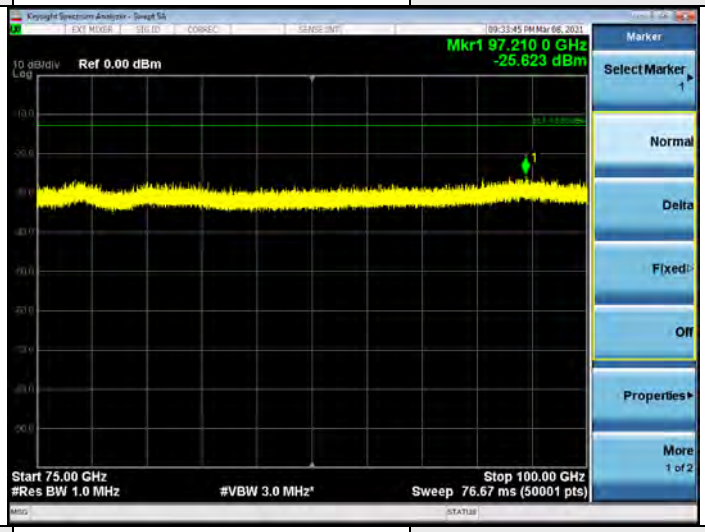
Band	n261	Beam ID	19
Frequency Range	50GHz-75GHz	Channel	High
Antenna polarity	Vertical	Test distance	3m



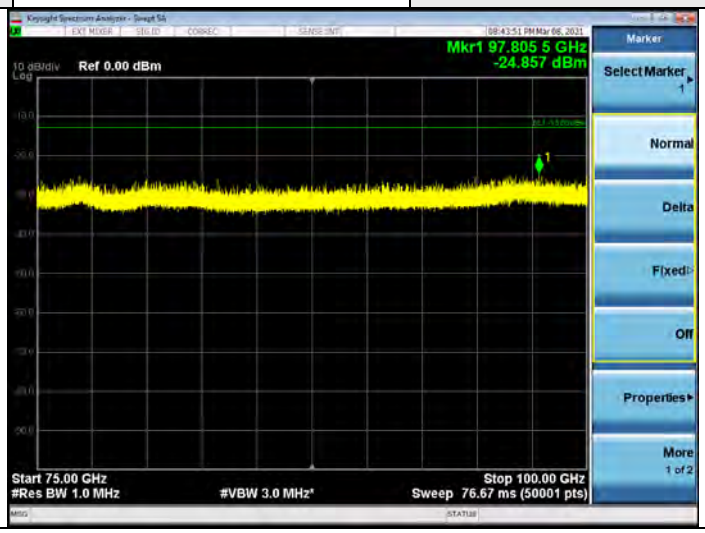
Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

75GHz ~ 100GHz:

Band	n261	Beam ID	147
Frequency Range	75GHz-100GHz	Channel	Low
Antenna polarity	Horizontal	Test distance	3m

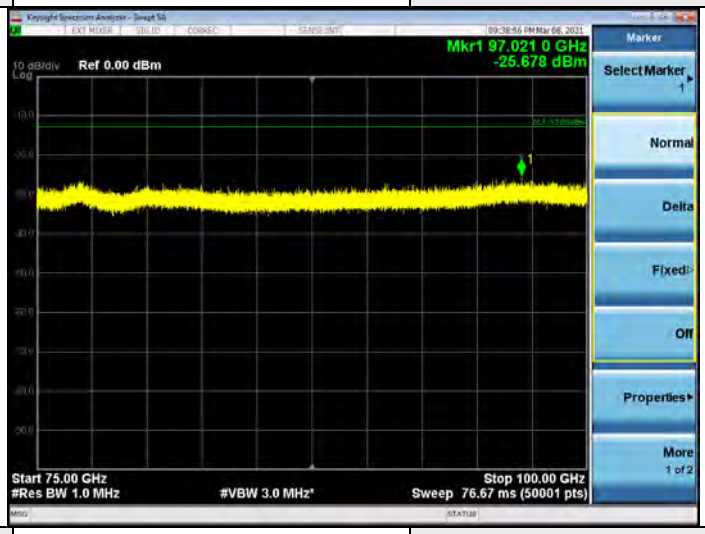


Band	n261	Beam ID	19
Frequency Range	75GHz-100GHz	Channel	Low
Antenna polarity	Vertical	Test distance	3m

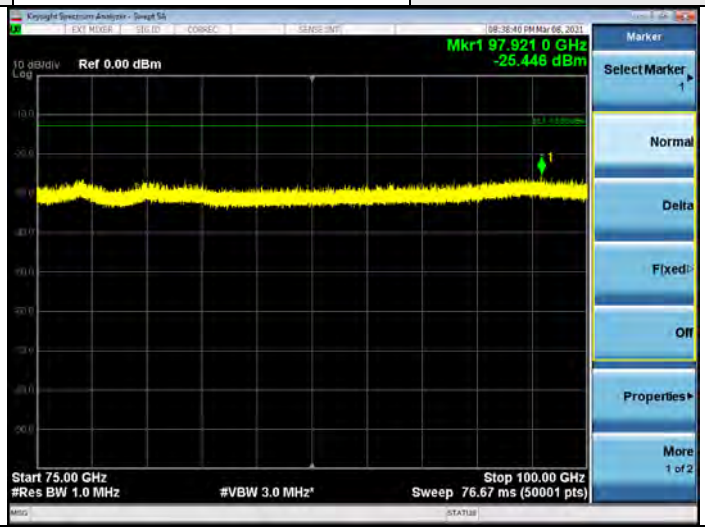


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n261	Beam ID	147
Frequency Range	75GHz-100GHz	Channel	Middle
Antenna polarity	Horizontal	Test distance	3m

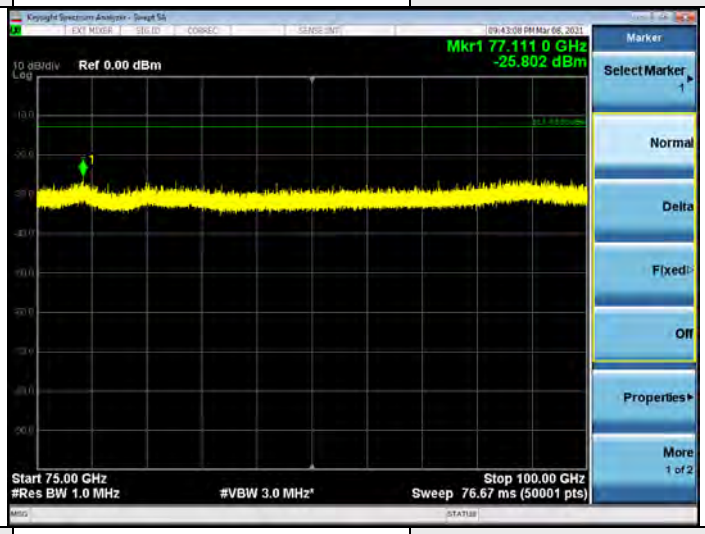


Band	n261	Beam ID	19
Frequency Range	75GHz-100GHz	Channel	Middle
Antenna polarity	Vertical	Test distance	3m

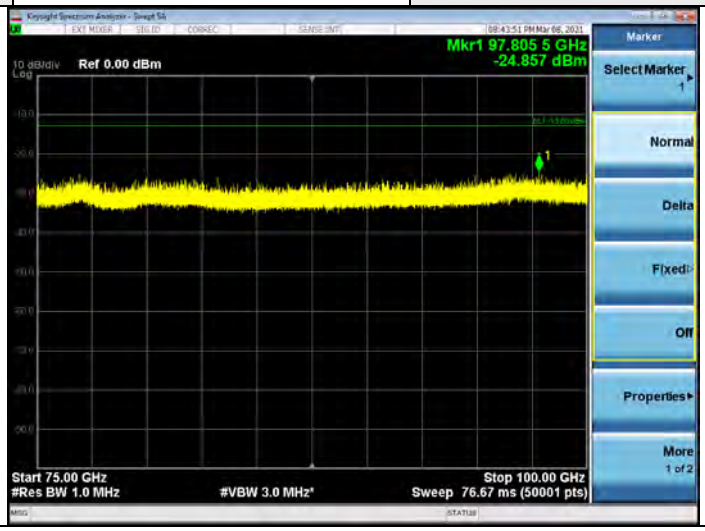


Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Band	n261	Beam ID	147
Frequency Range	75GHz-100GHz	Channel	High
Antenna polarity	Horizontal	Test distance	3m



Band	n261	Beam ID	19
Frequency Range	75GHz-100GHz	Channel	High
Antenna polarity	Vertical	Test distance	3m



Note:
1. The test results already include the correction factor (corrections: On).
2. EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB)+ 20log(D) – 104.8+Harmonic Mixer Conversion Loss (dB).

Summary of MIMO Out-of-Band Spurious Emission EIRP:

To address compliance of MIMO spurious emission per KDB 662911 D01, the MIMO spurious emission EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm.

EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)						
Test Frequency Range	Channel	EIRP (H Beam)	EIRP (V Beam)	EIRP (MIMO)	Limit (dBm)	Margin (dB)
Below 1GHz	2071667	-44.70	-33.90	-33.55	-13	-20.55
	2077891	-43.60	-32.40	-32.08	-13	-19.08
	2084165	-43.00	-33.90	-33.40	-13	-20.40
1GHz to 18GHz	2071667	-25.30	-24.90	-22.09	-13	-9.09
	2077891	-25.60	-23.90	-21.66	-13	-8.66
	2084165	-24.10	-25.30	-21.65	-13	-8.65
18GHz to 27.475GHz	2071667	-16.66	-16.53	-13.58	-13	-0.58
	2077891	-39.39	-41.80	-37.42	-13	-24.42
	2084165	-42.61	-42.32	-39.45	-13	-26.45
28.375GHz to 40GHz	2071667	-46.30	-46.32	-43.30	-13	-30.30
	2077891	-41.31	-41.64	-38.46	-13	-25.46
	2084165	-16.85	-16.95	-13.89	-13	-0.89
40GHz to 50GHz	2071667	-21.06	-21.25	-18.14	-13	-5.14
	2077891	-20.92	-21.08	-17.99	-13	-4.99
	2084165	-21.43	-21.31	-18.36	-13	-5.36
50GHz to 75GHz	2071667	-26.65	-27.51	-24.05	-13	-11.05
	2077891	-27.13	-27.27	-24.19	-13	-11.19
	2084165	-27.79	-28.52	-25.13	-13	-12.13
75GHz to 100GHz	2071667	-25.62	-25.53	-22.56	-13	-9.56
	2077891	-25.67	-25.44	-22.54	-13	-9.54
	2084165	-25.80	-24.85	-22.29	-13	-9.29

4.4 Out-of-Band Emission at the Band Edge Measurement

4.4.1 Limits of Out-of Band Emission at the Band Edge Measurement

The conducted power or the total radiated power of any emission outside a licensee's frequency block shall be −13 dBm/MHz or lower. However, in the bands immediately outside and adjacent to the licensee's frequency block, having a bandwidth equal to 10 percent of the channel bandwidth, the conducted power or the total radiated power of any emission shall be −5 dBm/MHz or lower.

4.4.2 Test Instruments

Refer to section 4.2.3.

4.4.3 Test Procedures

Refer to ANSI C63.26-2015 Section 5 and ANSI C63.26-2015 Section 6.4
KDB 842590 D01 v01 Section 4.4.2.5. & 4.4.3.3

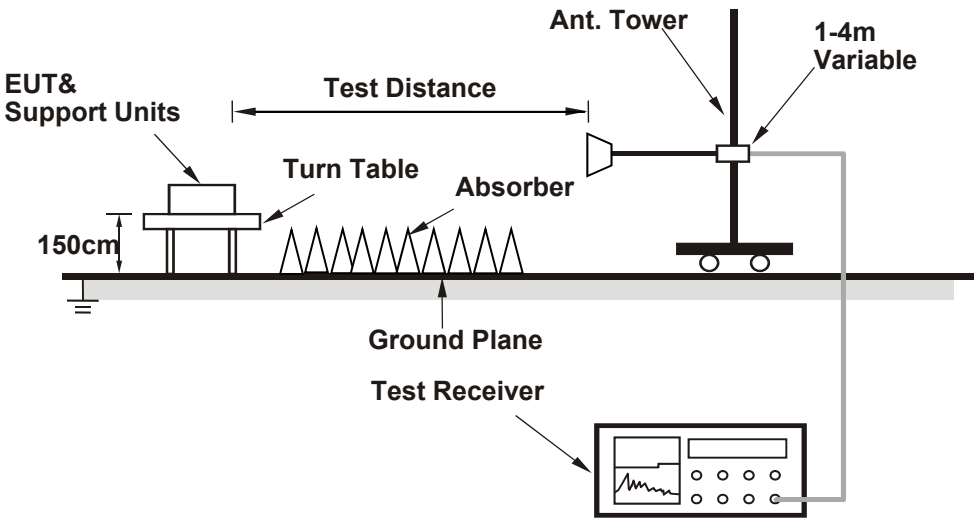
Note: Field strength method is used for EIRP and Two-cut method for TRP measurements.

4.4.4 Deviation from Test Standard

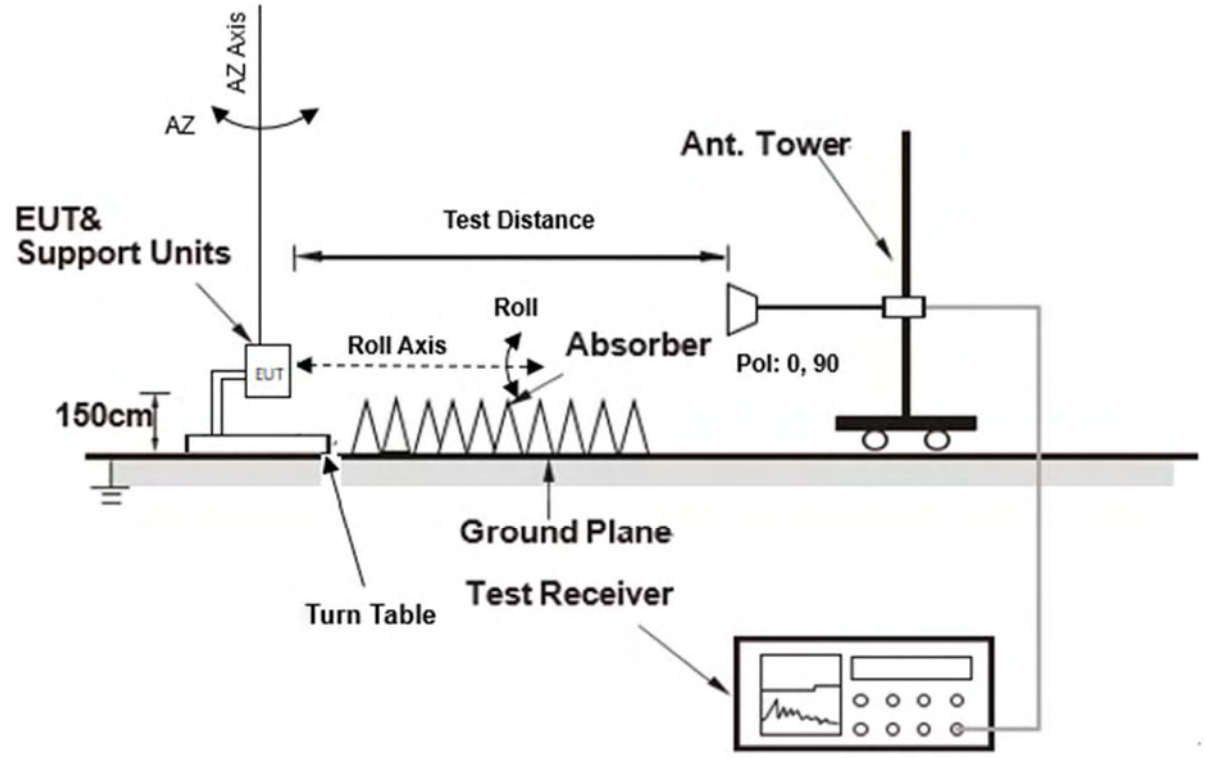
No deviation.

4.4.5 Test Set Up

EIRP



TRP



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.4.6 EUT Operating Conditions

The software provided by client to enable the EUT under transmission condition continuously at lowest channel frequencies individually.

4.4.7 Test Result

n260:

Bandwidth: 50MHz

Low Channel-SISO
(Adjacent to the licensee's block equal to 10% of channel BW)

BPSK / 1RB

Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	36.9999	-2.12	21.55	-23.67	-5	-24.81	PASS
147 (H)	36.9999	-2.03	21.55	-23.58	-5	-24.57	PASS

*EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
*Conducted Power = EIRP - Array Gain

Low Channel-MIMO
(Adjacent to the licensee's block equal to 10% of channel BW)

Beam ID	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147(V+H)	0.94	21.55	-20.61	-5	-15.61	PASS

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)
*Conducted Power = EIRP - Array Gain

Low Channel -SISO
(Adjacent to the licensee's block greater than 10% of channel BW / From 36975 MHz to 36995 MHz)

BPSK / 1RB

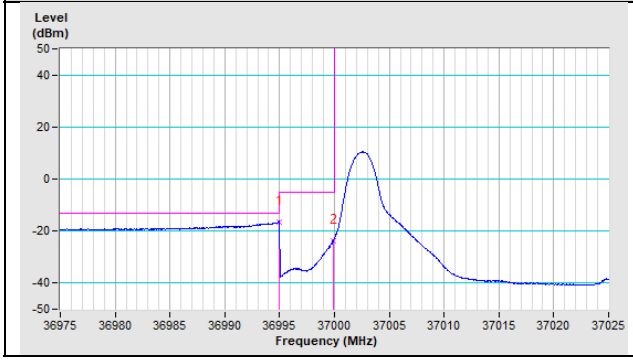
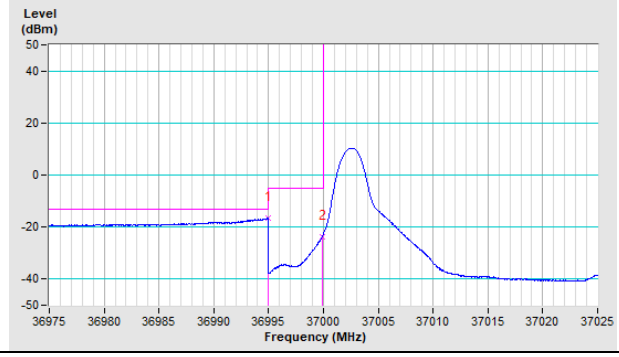
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	36.9949	-16.32	-13	-3.32	PASS
147 (H)	36.9949	-16.42	-13	-3.42	PASS

EIRP= Raw Value(dBm)+correction Factor(dBm)
correction Factor(dBm)= 107 + Cable Loss (dB) + Antenna Factor (dB/m)+20Log(2)-104.8

Low Channel-MIMO
(Adjacent to the licensee's block greater than 10% of channel BW / From 36975 MHz to 36995 MHz)

Beam ID	EIRP Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147(V+H)	-13.36	-13	-0.36	PASS

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

Beam 19	Beam 147
	

Low Channel-SISO
(Adjacent to the licensee's block equal to 10% of channel BW)

BPSK / Full RB

Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	36.9999	-9.27	21.55	-30.82	-5	-25.82	Pass
147 (H)	36.9999	-9.41	21.55	-30.96	-5	-25.96	Pass

*EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
*Conducted Power = EIRP - Array Gain

Low Channel-MIMO
(Adjacent to the licensee's block equal to 10% of channel BW)

Beam ID	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147(V+H)	-6.33	21.55	-27.88	-5	-22.88	PASS

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)
*Conducted Power = EIRP - Array Gain

Low Channel-SISO
(Adjacent to the licensee's block greater than 10% of channel BW / From 36975 MHz to 36995 MHz)

BPSK / Full RB

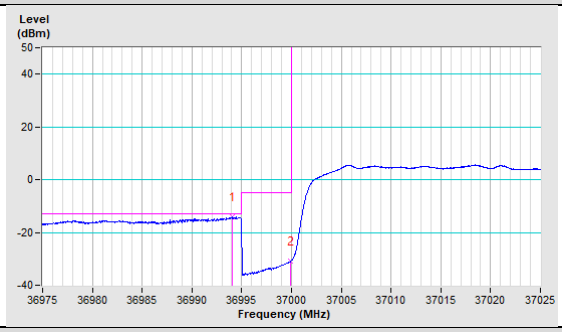
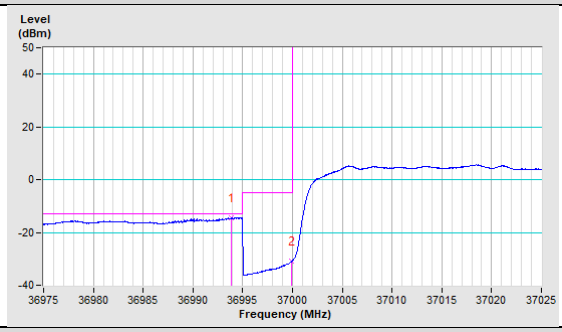
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	36.9941	-14.12	-13	-1.12	PASS
147 (H)	36.9938	-14.37	-13	-1.37	PASS

EIRP= Raw Value(dBm)+correction Factor(dBm)
correction Factor(dBm)= 107 + Cable Loss (dB) + Antenna Factor (dB/m)+20Log(2)-104.8

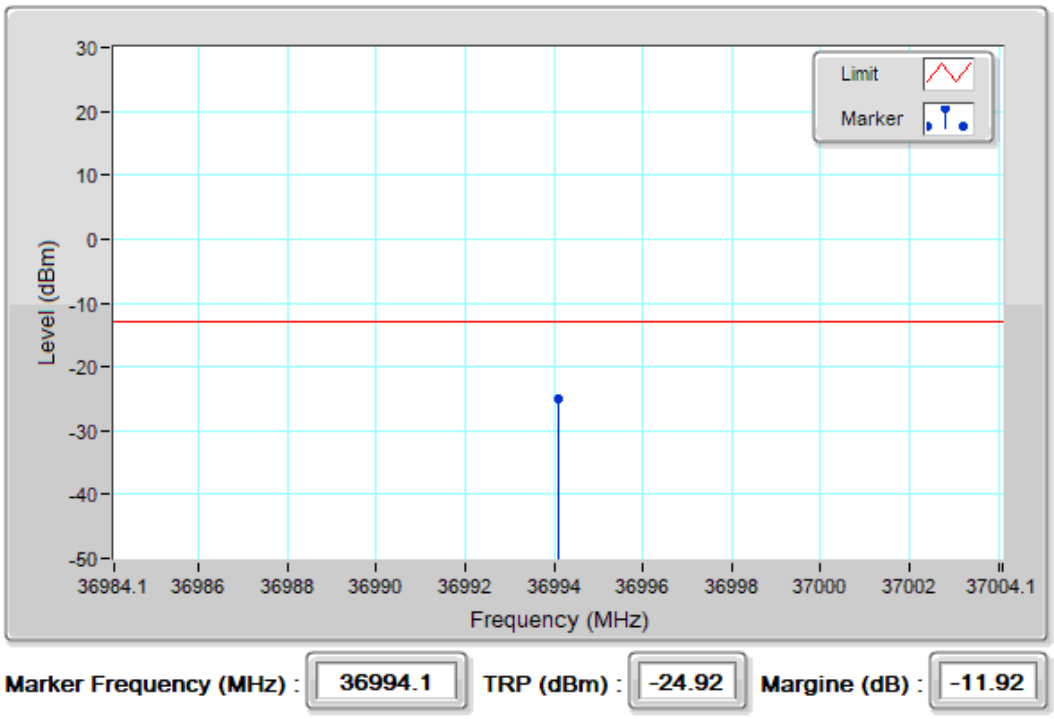
Low Channel-MIMO
(Adjacent to the licensee's block greater than 10% of channel BW / From 36975 MHz to 36995 MHz)

Beam ID	EIRP Power (dBm)	TRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-11.23	-24.92	-13	-11.92	PASS

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

Beam 19	Beam 147
	

Beam 19+147 TRP



High Channel-SISO
(Adjacent to the licensee's block equal to 10% of channel BW)

BPSK / 1RB

Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	40.0000	-13.66	21.55	-35.21	-5	-30.21	Pass
147 (H)	40.0001	-13.65	21.55	-35.20	-5	-30.20	Pass

*EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
*Conducted Power = EIRP - Array Gain

High Channel-MIMO
(Adjacent to the licensee's block equal to 10% of channel BW)

Beam ID	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-10.64	21.55	-32.19	-5	-27.19	PASS

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)
*Conducted Power = EIRP - Array Gain

High Channel-SISO
(Adjacent to the licensee's block greater than 10% of channel BW)

BPSK / 1RB

Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	40.0057	-18.25	-13	-5.25	Pass
147 (H)	40.0087	-18.23	-13	-5.23	Pass

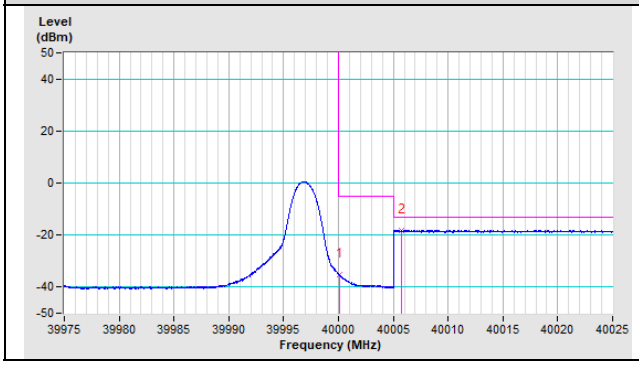
EIRP= Raw Value(dBm)+correction Factor(dBm)
correction Factor(dBm)= 107 + Cable Loss (dB) + Antenna Factor (dB/m)+20Log(2)-104.8

High Channel-MIMO
(Adjacent to the licensee's block greater than 10% of channel BW / From 40005 MHz to 40025 MHz)

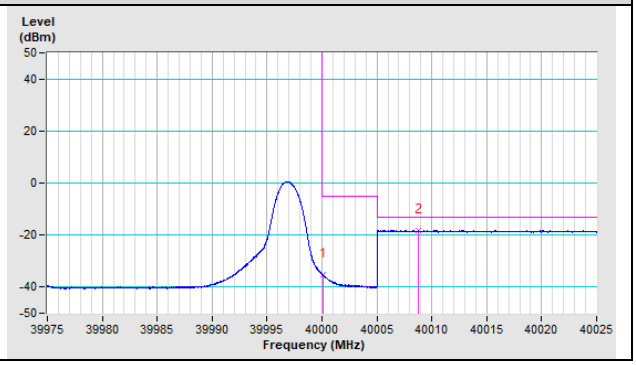
Beam ID	EIRP Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-15.22	-13	-2.22	Pass

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

Beam 19



Beam 147



High Channel-SISO
(Adjacent to the licensee's block equal to 10% of channel BW)-SISO

BPSK / Full RB

Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	40.0000	-4.95	21.55	-26.50	-5	-21.50	Pass
147 (H)	40.0001	-5.00	21.55	-26.55	-5	-21.55	Pass

*EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
*Conducted Power = EIRP - Array Gain

High Channel-MIMO
(Adjacent to the licensee's block equal to 10% of channel BW)

Beam ID	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-1.96	21.55	-23.51	-5	-18.51	PASS

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)
*Conducted Power = EIRP - Array Gain

High Channel-SISO
(Adjacent to the licensee's block greater than 10% of channel BW / From 40005 MHz to 40025 MHz)

BPSK / 1RB

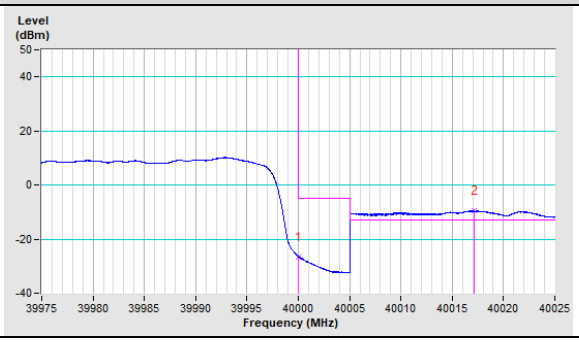
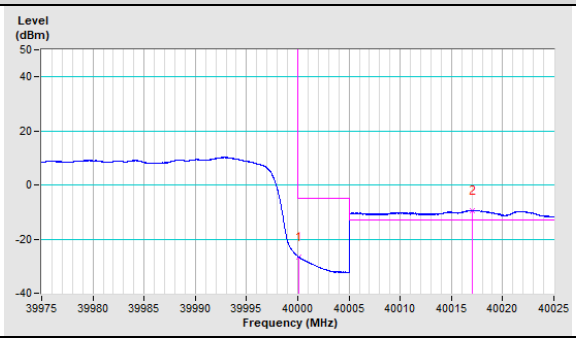
Beam ID	Frequency (GHz)	EIRP Value (dBm)	TRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	40.0171	-9.61	-23.81	-13	-10.81	PASS
147 (H)	40.0170	-9.47	-23.88	-13	-10.88	PASS

EIRP= Raw Value(dBm)+correction Factor(dBm)
correction Factor(dBm)= 107 + Cable Loss (dB) + Antenna Factor (dB/m)+20Log(2)-104.8

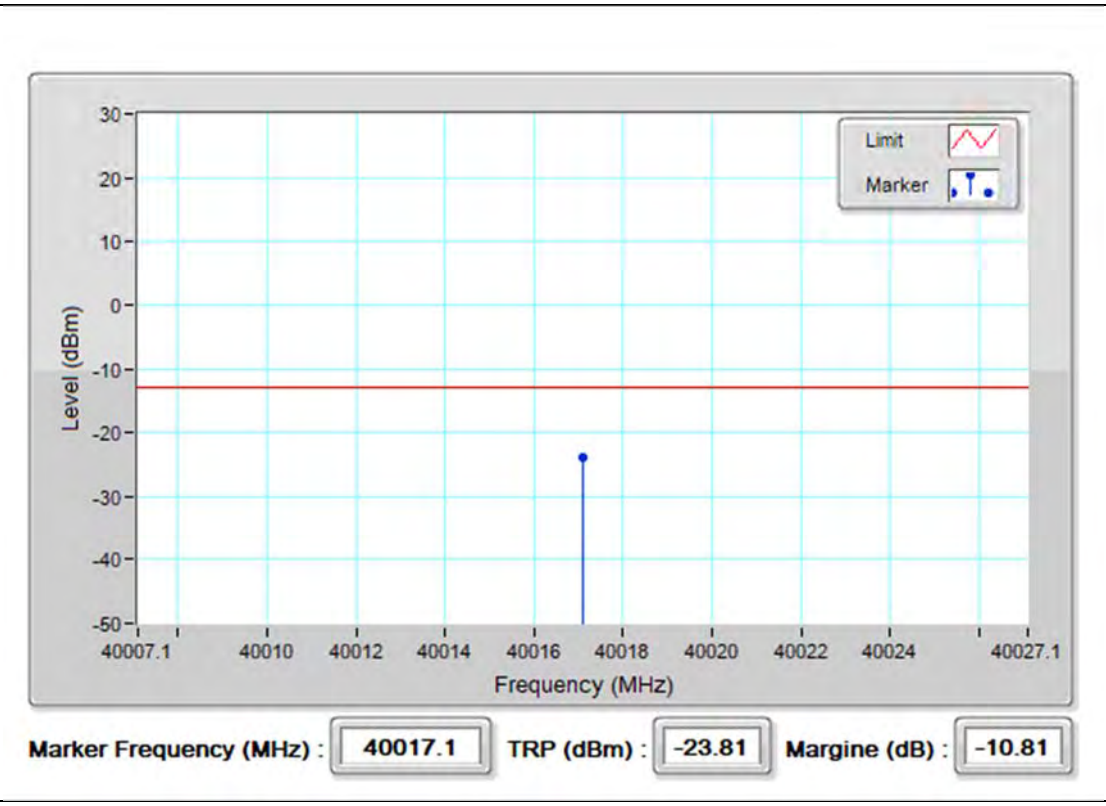
High Channel-MIMO
(Adjacent to the licensee's block greater than 10% of channel BW / From 40005 MHz to 40025 MHz)

Beam ID	EIRP Power (dBm)	TRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-6.52	-22.73	-13	-9.73	PASS

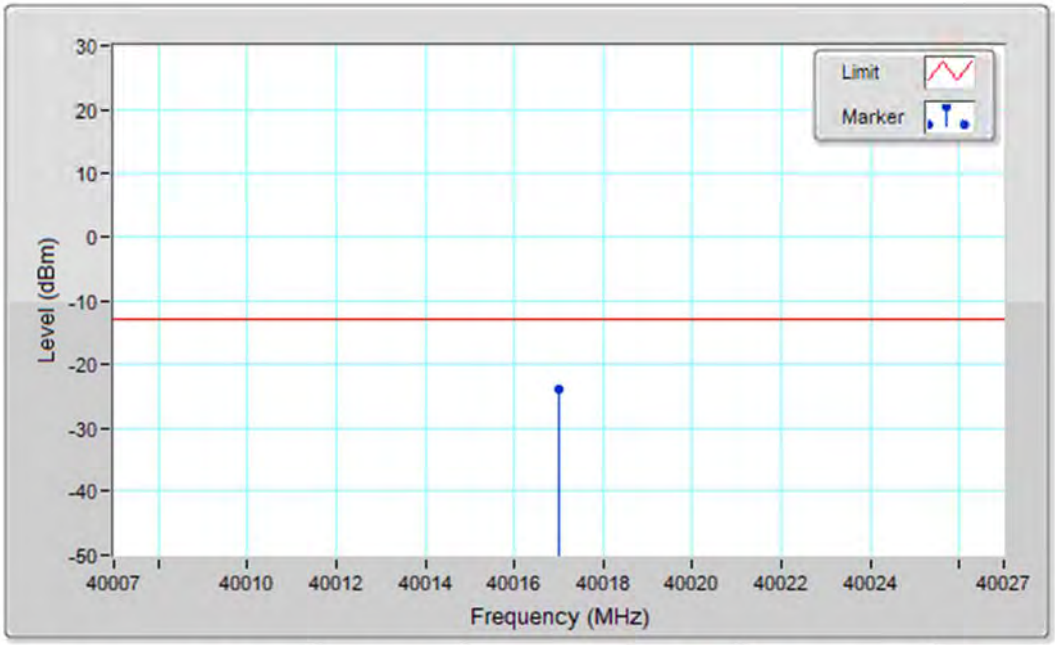
*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

Beam 19	Beam 147
	

Beam 19 TRP

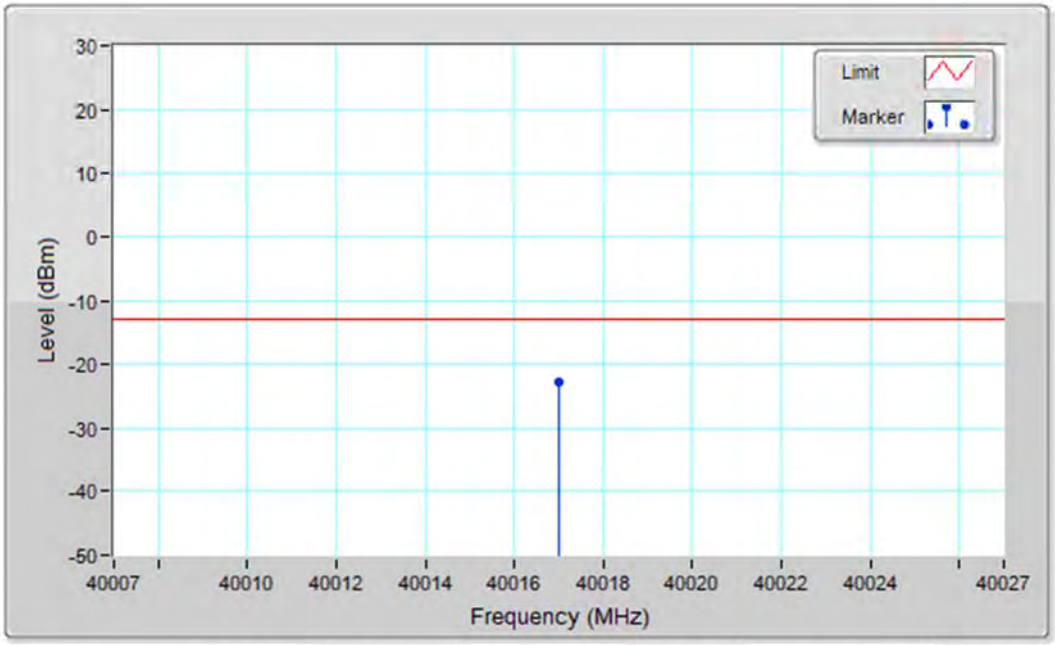


Beam 147 TRP



Marker Frequency (MHz) :	40017	TRP (dBm) :	-23.88	Margine (dB) :	-10.88

Beam 19+147 TRP



Marker Frequency (MHz) :	40017	TRP (dBm) :	-22.73	Margine (dB) :	-9.73

n260:

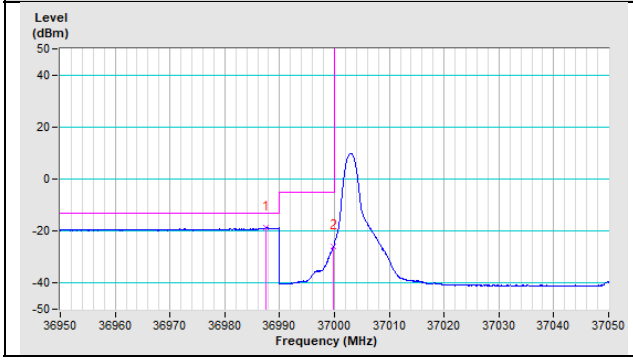
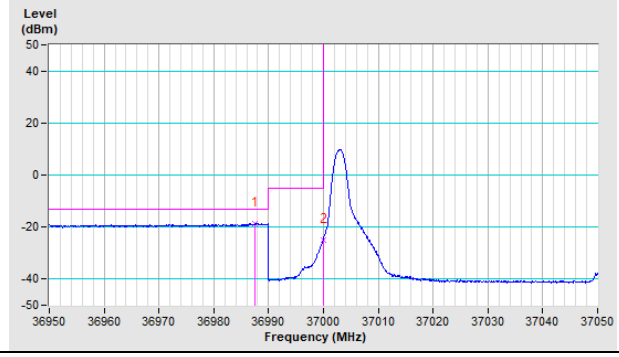
Bandwidth: 100MHz

Low Channel (Adjacent to the licensee's block equal to 10% of channel BW)-SISO							
BPSK / 1RB							
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	36.9998	-4.23	21.55	-25.78	-5	-20.78	PASS
147 (H)	36.9999	-3.48	21.55	-25.03	-5	-20.03	PASS
*EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8 *Conducted Power = EIRP - Array Gain							

Low Channel-MIMO (Adjacent to the licensee's block equal to 10% of channel BW)						
Beam ID	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147(V+H)	-0.83	21.55	-22.38	-5	-17.38	PASS
*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO) *Conducted Power = EIRP - Array Gain						

Low Channel-SISO (Adjacent to the licensee's block greater than 10% of channel BW / From 36950 MHz to 36990 MHz)					
BPSK / 1RB					
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	36.9875	-18.73	-13	-5.73	PASS
147 (H)	36.9874	-18.61	-13	-5.61	PASS
EIRP= Raw Value(dBm)+correction Factor(dBm) correction Factor(dBm)= 107 + Cable Loss (dB) + Antenna Factor (dB/m)+20Log(2)-104.8					

Low Channel-MIMO (Adjacent to the licensee's block greater than 10% of channel BW / From 36950 MHz to 36990 MHz)				
Beam ID	EIRP Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-15.66	-13	-2.66	PASS
*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)				

Beam 19	Beam 147
	

Low Channel-SISO
(Adjacent to the licensee's block equal to 10% of channel BW)-SISO

BPSK / Full RB

Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	36.9999	-11.89	21.55	-33.44	-5	-28.44	Pass
147 (H)	36.9999	-11.94	21.55	-33.49	-5	-28.49	Pass

*EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
*Conducted Power = EIRP - Array Gain

Low Channel-MIMO
(Adjacent to the licensee's block equal to 10% of channel BW)

Beam ID	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147(V+H)	-8.90	21.55	-30.45	-5	-25.45	PASS

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)
*Conducted Power = EIRP - Array Gain

Low Channel-SISO
(Adjacent to the licensee's block greater than 10% of channel BW / From 36950 MHz to 36990 MHz)

BPSK / Full RB

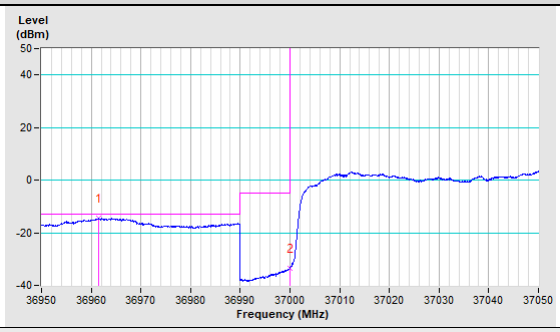
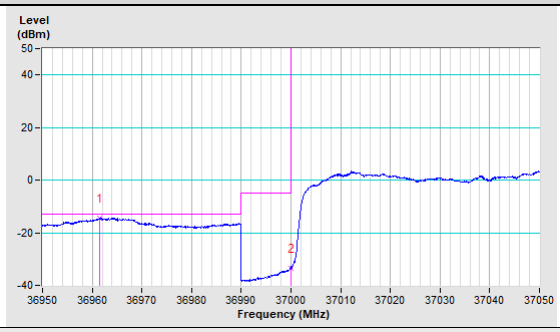
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	36.9614	-14.57	-13	-1.57	PASS
147 (H)	36.9615	-14.32	-13	-1.32	PASS

EIRP= Raw Value(dBm)+correction Factor(dBm)
correction Factor(dBm)= 107 + Cable Loss (dB) + Antenna Factor (dB/m)+20Log(2)-104.8

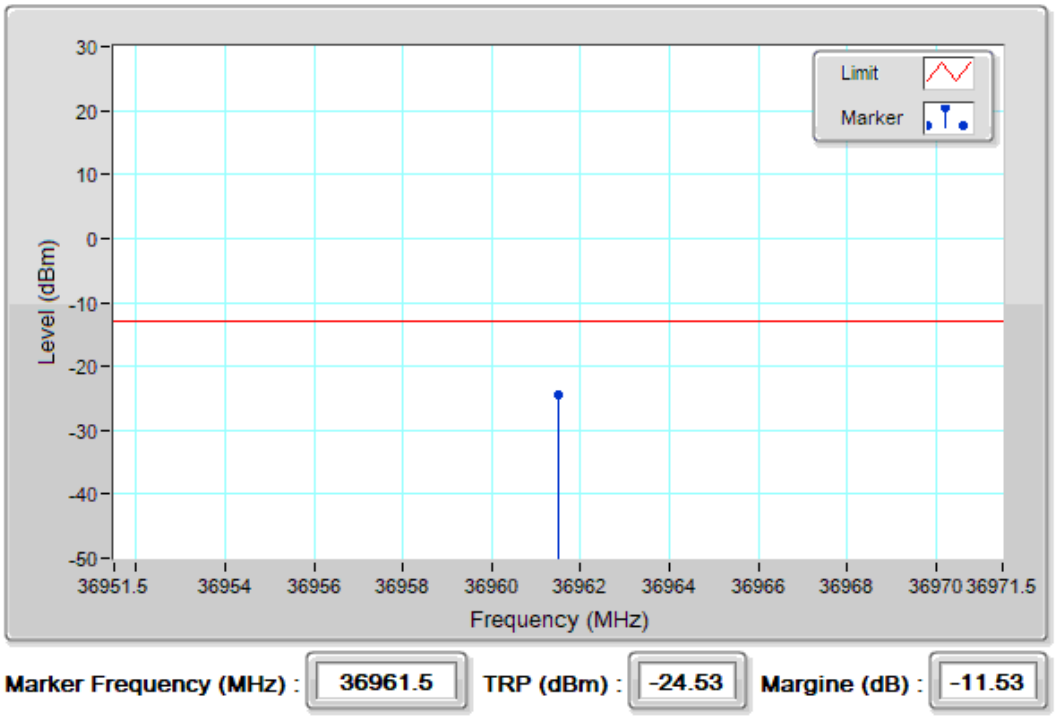
Low Channel-MIMO
(Adjacent to the licensee's block greater than 10% of channel BW / From 36950 MHz to 36990 MHz)

Beam ID	EIRP Power (dBm)	TRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-11.43	-24.53	-13	-11.53	Pass

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

Beam 19	Beam 147
	

Beam 19+147 TRP (2 Cut Method)



Marker Frequency (MHz) : 36961.5 TRP (dBm) : -24.53 Margine (dB) : -11.53

High Channel-SISO
(Adjacent to the licensee's block equal to 10% of channel BW)

BPSK / 1RB

Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	40.0001	-6.71	21.55	-28.26	-5	-23.26	Pass
147 (H)	40.0001	-6.99	21.55	-28.54	-5	-23.54	Pass

*EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
*Conducted Power = EIRP - Array Gain

High Channel-MIMO
(Adjacent to the licensee's block equal to 10% of channel BW)

Beam ID	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-3.83	21.55	-25.38	-5	-20.38	PASS

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)
*Conducted Power = EIRP - Array Gain

High Channel-SISO
(Adjacent to the licensee's block greater than 10% of channel BW)

BPSK / 1RB

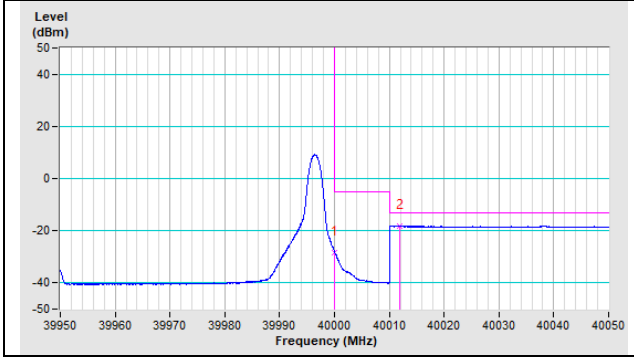
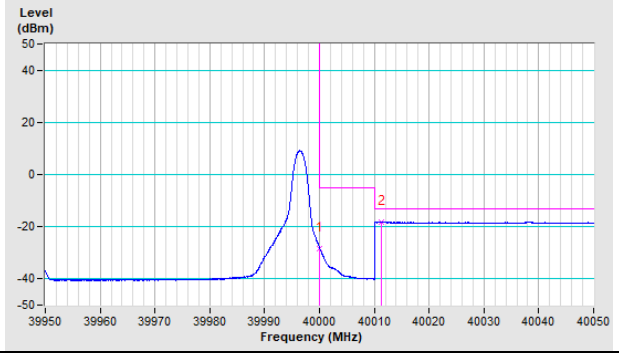
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	40.0119	-18.11	-13	-5.11	Pass
147 (H)	40.0113	-18.05	-13	-5.05	Pass

EIRP= Raw Value(dBm)+correction Factor(dBm)
correction Factor(dBm)= 107 + Cable Loss (dB) + Antenna Factor (dB/m)+20Log(2)-104.8

High Channel-MIMO
(Adjacent to the licensee's block greater than 10% of channel BW)

Beam ID	EIRP Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-15.06	-13	-2.06	Pass

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

Beam 19	Beam 147
	

High Channel-SISO
(Adjacent to the licensee's block equal to 10% of channel BW)

BPSK / Full RB

Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	40.0001	-11.24	21.55	-32.79	-5	-27.79	Pass
147 (H)	40.0001	-11.21	21.55	-32.76	-5	-27.76	Pass

*EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
*Conducted Power = EIRP - Array Gain

High Channel-MIMO
(Adjacent to the licensee's block equal to 10% of channel BW)

Beam ID	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-8.21	21.55	-29.76	-5	-24.76	PASS

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)
*Conducted Power = EIRP - Array Gain

High Channel)-SISO
(Adjacent to the licensee's block greater than 10% of channel BW / From 40010 MHz to 40050 MHz)

BPSK / 1RB

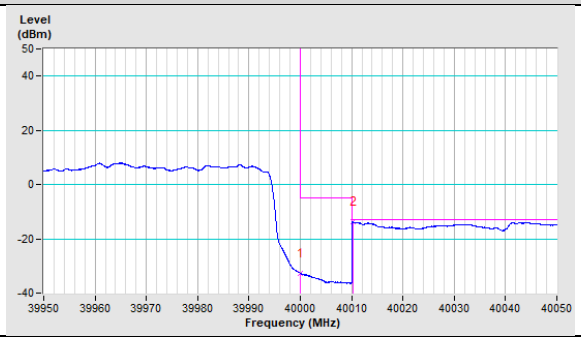
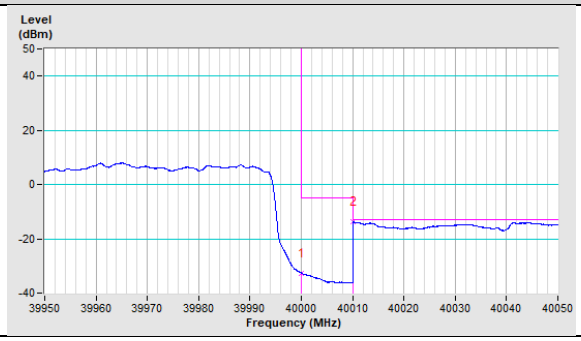
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	40.0102	-13.80	-13	-0.80	Pass
147 (H)	40.0101	-13.80	-13	-0.80	Pass

EIRP= Raw Value(dBm)+correction Factor(dBm)
correction Factor(dBm)= 107 + Cable Loss (dB) + Antenna Factor (dB/m)+20Log(2)-104.8

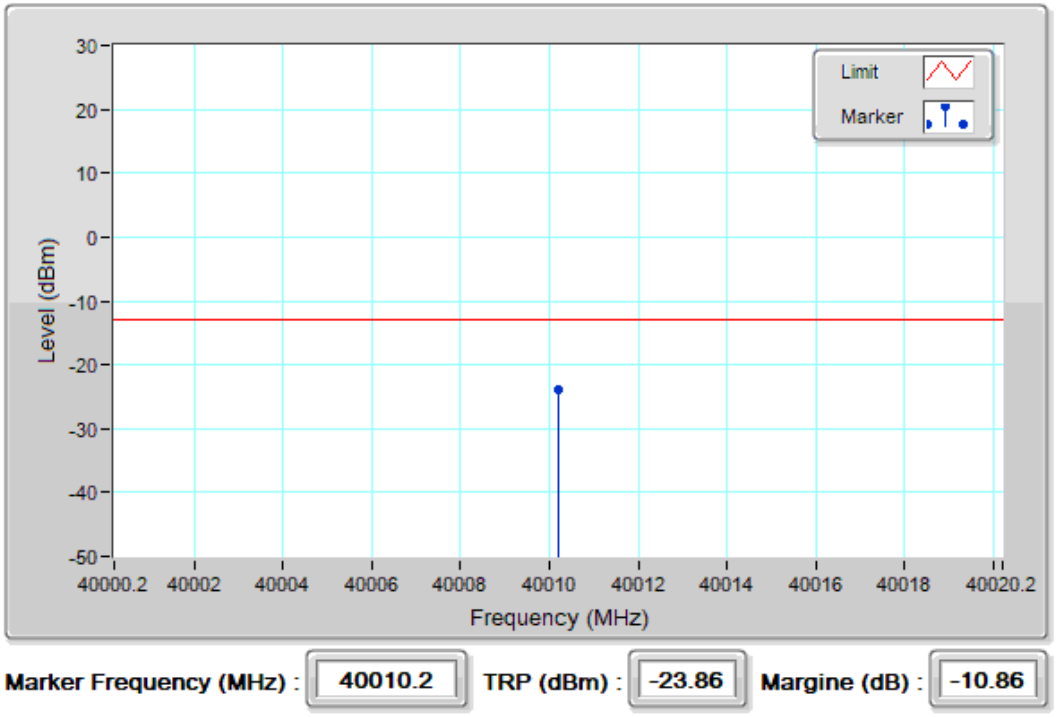
High Channel-MIMO
(Adjacent to the licensee's block greater than 10% of channel BW / From 40010 MHz to 40050 MHz)

Beam ID	EIRP Power (dBm)	TRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-10.78	-23.86	-13	-10.86	Pass

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

Beam 19	Beam 147
	

Beam 19+147 TRP



Marker Frequency (MHz) :	40010.2	TRP (dBm) :	-23.86	Margine (dB) :	-10.86

n261:

Bandwidth: 50MHz

Low Channel-SISO
(Adjacent to the licensee's block equal to 10% of channel BW)

BPSK / 1RB

Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	27.4999	-8.37	19.44	-27.81	-5	-22.81	Pass
147 (H)	27.4995	-8.15	19.44	-27.59	-5	-22.59	Pass

*EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
*Conducted Power = EIRP - Array Gain

Low Channel-MIMO
(Adjacent to the licensee's block equal to 10% of channel BW)

Beam ID	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147(V+H)	-5.24	19.44	-24.68	-5	-19.68	PASS

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)
*Conducted Power = EIRP - Array Gain

Low Channel-SISO
(Adjacent to the licensee's block greater than 10% of channel BW / From 27475 MHz to 27495 MHz)

BPSK / 1RB

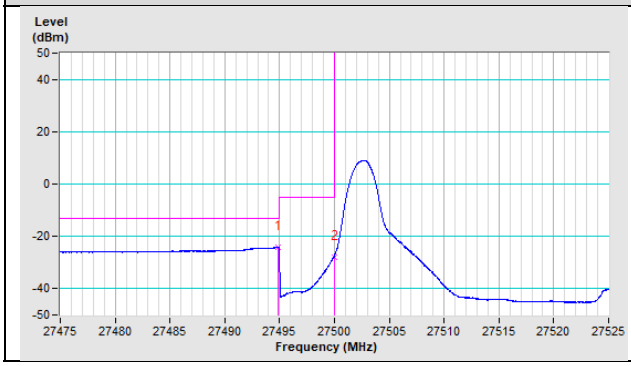
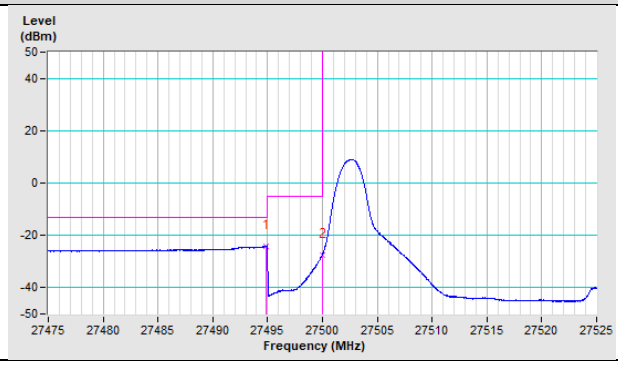
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	27.4948	-24.05	-13	-11.05	PASS
147 (H)	27.4948	-24.07	-13	-11.07	PASS

EIRP= Raw Value(dBm)+correction Factor(dBm)
correction Factor(dBm)= 107 + Cable Loss (dB) + Antenna Factor (dB/m)+20Log(2)-104.8

Low Channel-MIMO
(Adjacent to the licensee's block greater than 10% of channel BW / From 27475 MHz to 27495 MHz)

Beam ID	EIRP Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-21.04	-13	-8.04	PASS

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

Beam 19	Beam 147
	

Low Channel-SISO
(Adjacent to the licensee's block equal to 10% of channel BW)

BPSK / Full RB

Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	27.4999	-6.06	19.44	-25.50	-5	-20.50	Pass
147 (H)	27.4999	-6.00	19.44	-25.44	-5	-20.44	Pass

*EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
*Conducted Power = EIRP - Array Gain

Low Channel-MIMO
(Adjacent to the licensee's block equal to 10% of channel BW)

Beam ID	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147(V+H)	-3.01	19.44	-22.45	-5	-17.45	PASS

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)
*Conducted Power = EIRP - Array Gain

Low Channel-SISO
(Adjacent to the licensee's block greater than 10% of channel BW / From 27475 MHz to 27495 MHz)

BPSK / Full RB

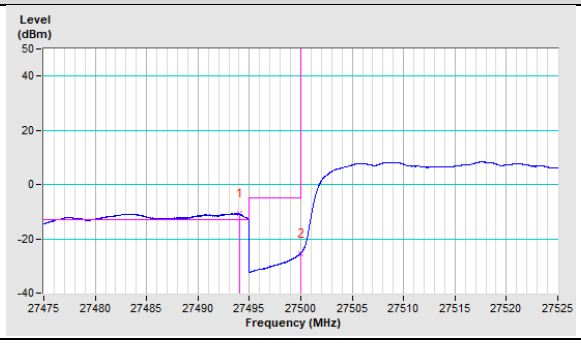
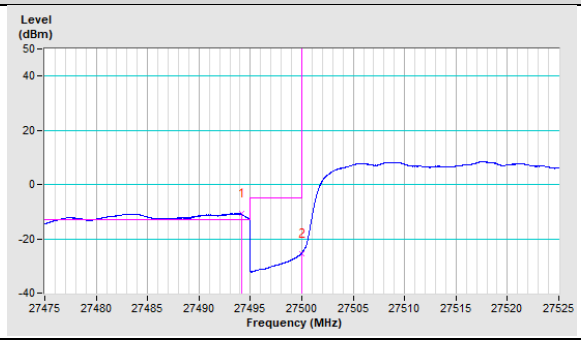
Beam ID	Frequency (GHz)	EIRP Value (dBm)	TRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	27.4941	-10.69	-21.75	-13	-8.75	Pass
147 (H)	27.4941	-10.66	-22.03	-13	-8.27	Pass

EIRP= Raw Value(dBm)+correction Factor(dBm)
correction Factor(dBm)= 107 + Cable Loss (dB) + Antenna Factor (dB/m)+20Log(2)-104.8

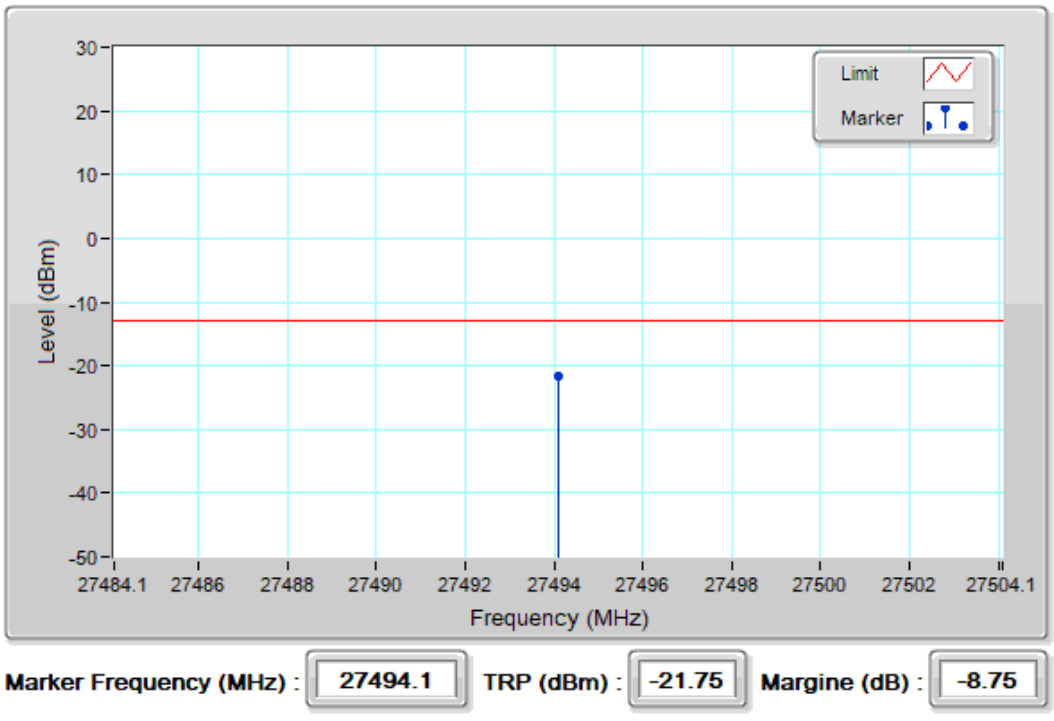
Low Channel-MIMO
(Adjacent to the licensee's block greater than 10% of channel BW / From 27475 MHz to 27495 MHz)

Beam ID	EIRP Power (dBm)	TRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-7.66	-19.61	-13	-6.61	Pass

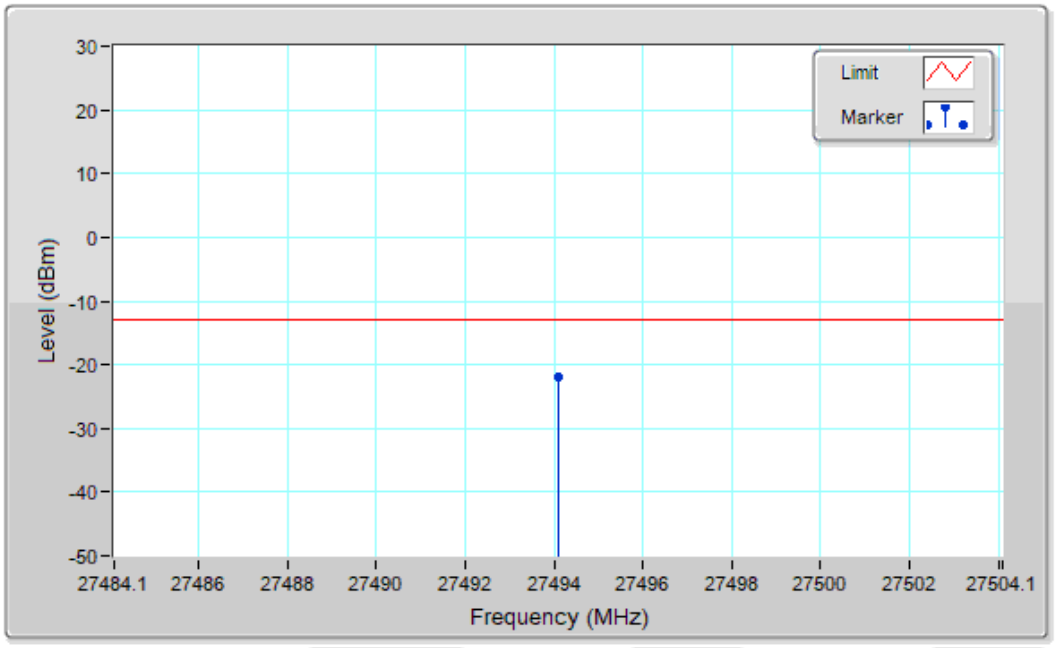
*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

Beam 19	Beam 147
	

Beam 19 TRP

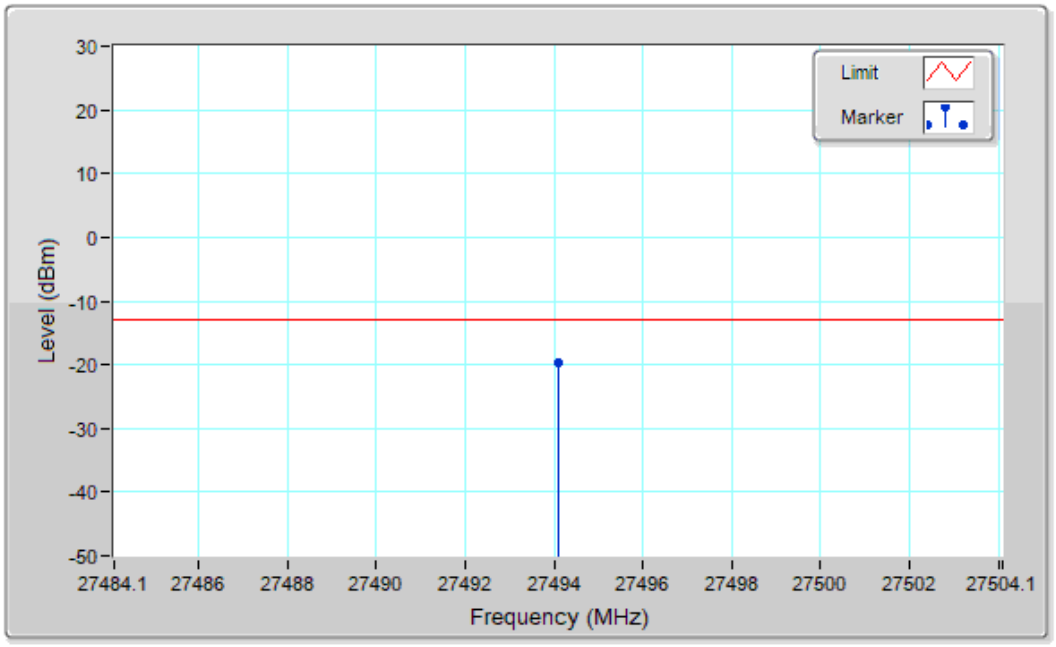


Beam 147 TRP



Marker Frequency (MHz) : 27494.1 TRP (dBm) : -22.03 Margine (dB) : -9.03

Beam 19+147 TRP



Marker Frequency (MHz) : 27494.1 TRP (dBm) : -19.61 Margine (dB) : -6.61

High Channel-SISO
(Adjacent to the licensee's block equal to 10% of channel BW)

BPSK / 1RB

Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	28.3500	-10.41	19.44	-29.85	-5	-24.85	Pass
147 (H)	28.3500	-10.44	19.44	-29.88	-5	-24.88	Pass

*EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
*Conducted Power = EIRP - Array Gain

High Channel-MIMO
(Adjacent to the licensee's block equal to 10% of channel BW)

Beam ID	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-7.41	19.44	-26.85	-5	-21.85	PASS

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)
*Conducted Power = EIRP - Array Gain

High Channel-SISO
(Adjacent to the licensee's block greater than 10% of channel BW)

BPSK / 1RB

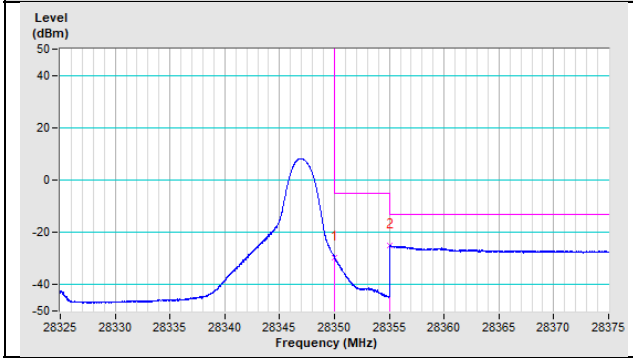
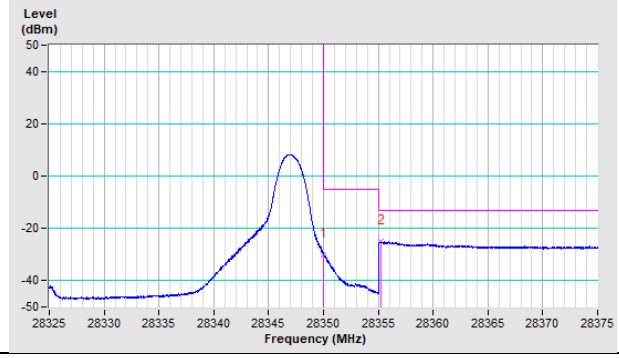
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	28.3552	-25.10	-13	-12.1	Pass
147 (H)	28.3552	-25.05	-13	-12.05	Pass

EIRP= Raw Value(dBm)+correction Factor(dBm)
correction Factor(dBm)= 107 + Cable Loss (dB) + Antenna Factor (dB/m)+20Log(2)-104.8

High Channel-MIMO
(Adjacent to the licensee's block greater than 10% of channel BW / From 28355 MHz to 28375 MHz)

Beam ID	EIRP Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-22.06	-13	-9.06	Pass

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

Beam 19	Beam 147
	

High Channel-SISO
(Adjacent to the licensee's block equal to 10% of channel BW)

BPSK / Full RB

Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	28.3501	-7.11	19.44	-26.55	-5	-21.55	Pass
147 (H)	28.3500	-6.97	19.44	-26.41	-5	-21.41	Pass

*EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
*Conducted Power = EIRP - Array Gain

High Channel-MIMO
(Adjacent to the licensee's block equal to 10% of channel BW)

Beam ID	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-4.02	19.44	-23.46	-5	-18.46	PASS

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)
*Conducted Power = EIRP - Array Gain

High Channel-SISO
(Adjacent to the licensee's block greater than 10% of channel BW / From 28355 MHz to 28375 MHz)

BPSK / Full RB

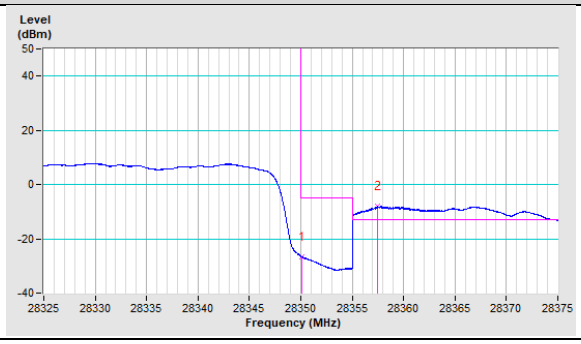
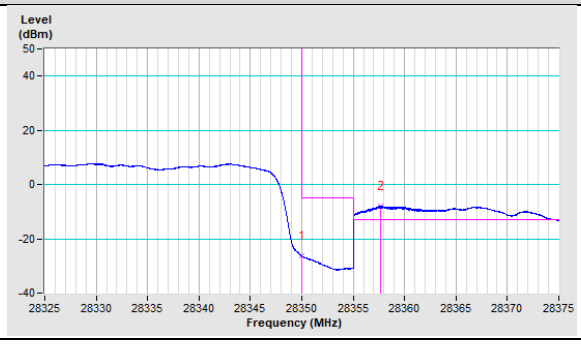
Beam ID	Frequency (GHz)	EIRP Value (dBm)	TRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	28.3574	-8.10	-21.68	-13	-8.68	Pass
147 (H)	28.3576	-8.06	-21.27	-13	-8.27	Pass

EIRP= Raw Value(dBm)+correction Factor(dBm)
correction Factor(dBm)= 107 + Cable Loss (dB) + Antenna Factor (dB/m)+20Log(2)-104.8

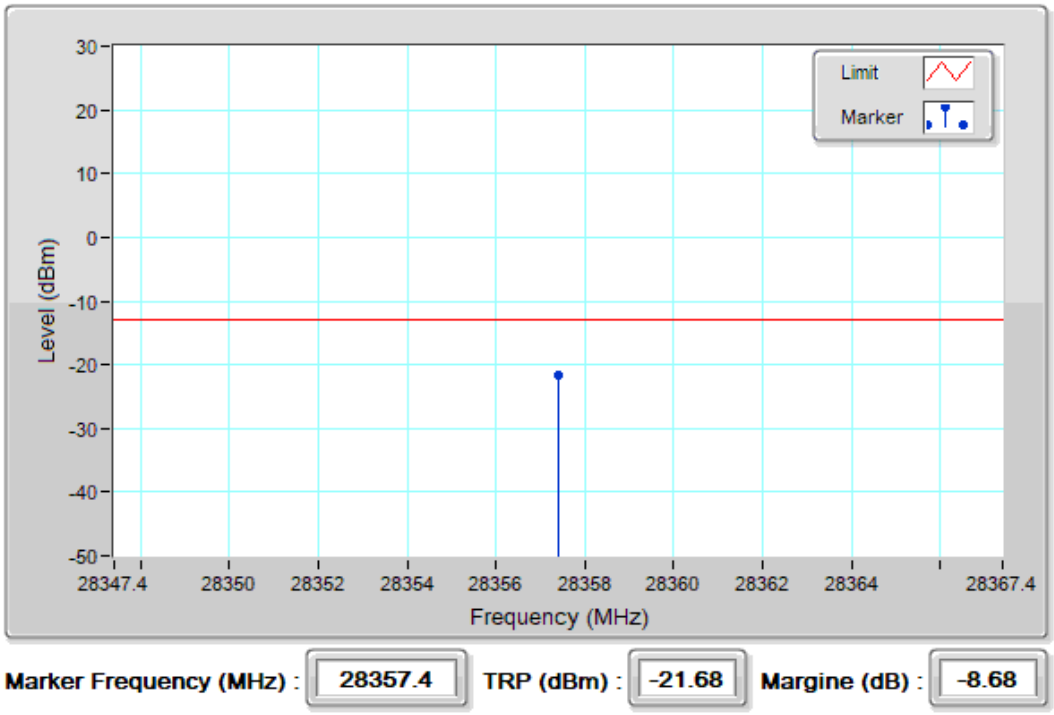
High Channel-MIMO
(Adjacent to the licensee's block greater than 10% of channel BW / From 28355 MHz to 28375 MHz)

Beam ID	EIRP Power (dBm)	TRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-5.02	-20.38	-13	-7.38	Pass

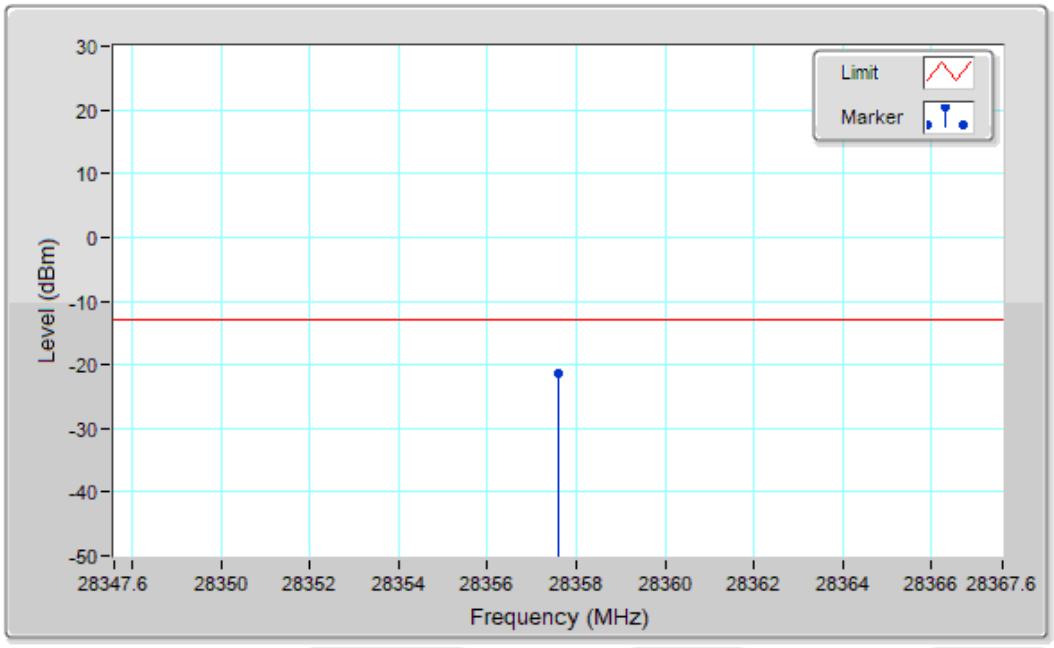
*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

Beam 19	Beam 147
	

Beam 19 TRP

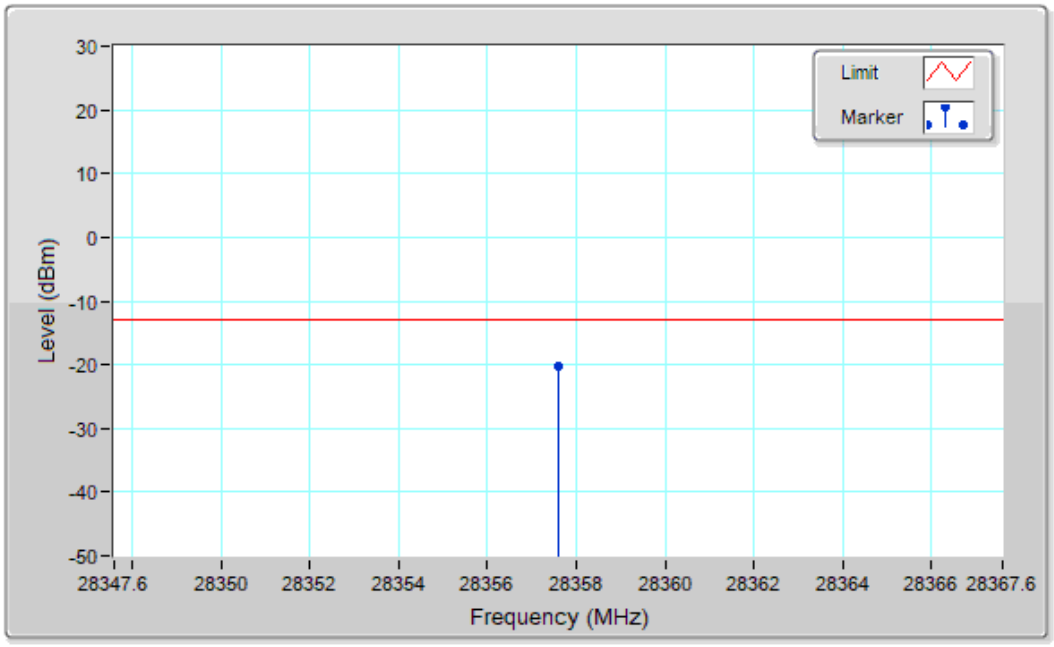


Beam 147 TRP



Marker Frequency (MHz) :	28357.6	TRP (dBm) :	-21.27	Margine (dB) :	-8.27

Beam 19+147 TRP



Marker Frequency (MHz) :	28357.6	TRP (dBm) :	-20.38	Margine (dB) :	-7.38

n261:

Bandwidth: 100MHz

Low Channel (Adjacent to the licensee's block greater than 10% of channel BW)-SISO

BPSK / 1RB

Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	27.4998	-8.66	19.44	-28.10	-5	-23.10	Pass
147 (H)	27.4998	-8.70	19.44	-28.14	-5	-23.14	Pass

*EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
*Conducted Power = EIRP - Array Gain

Low Channel-MIMO
(Adjacent to the licensee's block equal to 10% of channel BW)

Beam ID	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147(V+H)	-5.66	19.44	-25.10	-5	-20.11	PASS

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)
*Conducted Power = EIRP - Array Gain

Low Channel-SISO
(Adjacent to the licensee's block equal to 10% of channel BW / From 27450 MHz to 27490 MHz)

BPSK / 1RB

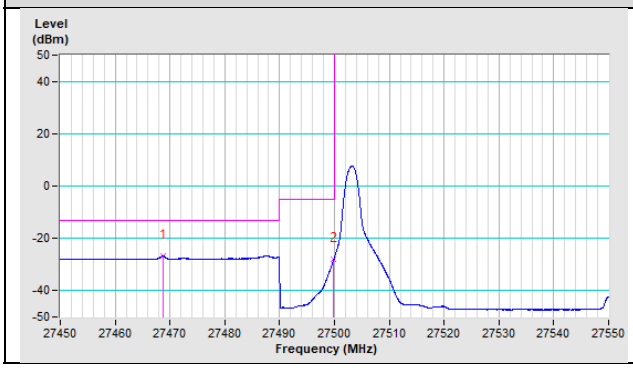
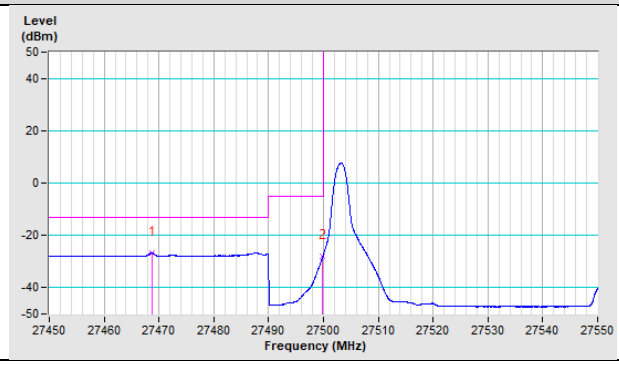
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	27.4687	-26.65	-13	-13.65	PASS
147 (H)	27.4686	-26.60	-13	-13.60	PASS

*EIRP (dBm) = Analyzer Level (dBm) + 107 + AFCL (dB/m) + 20Log(Dm) – 104.8
*Conducted Power = EIRP - Array Gain

Low Channel-MIMO
(Adjacent to the licensee's block equal to 10% of channel BW / From 27450 MHz to 27490 MHz)

Beam ID	EIRP Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-23.61	-13	-10.61	PASS

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

Beam 19	Beam 147
	

Low Channel-SISO
(Adjacent to the licensee's block equal to 10% of channel BW)

BPSK / Full RB

Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	27.4998	-9.16	19.44	-28.60	-5	-23.60	Pass
147 (H)	27.4998	-9.24	19.44	-28.68	-5	-23.68	Pass

Low Channel-MIMO
(Adjacent to the licensee's block equal to 10% of channel BW)

Beam ID	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147(V+H)	-6.18	19.44	-25.62	-5	-20.62	PASS

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)
*Conducted Power = EIRP - Array Gain

Low Channel-SISO
(Adjacent to the licensee's block greater than 10% of channel BW)

BPSK / Full RB

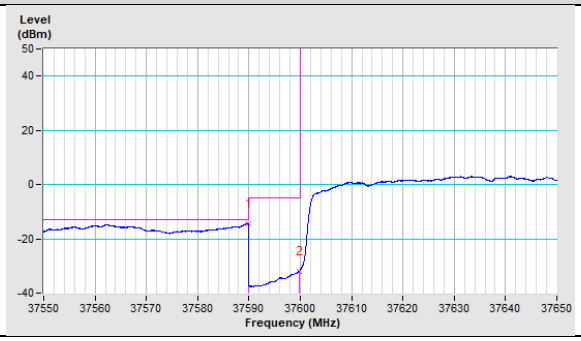
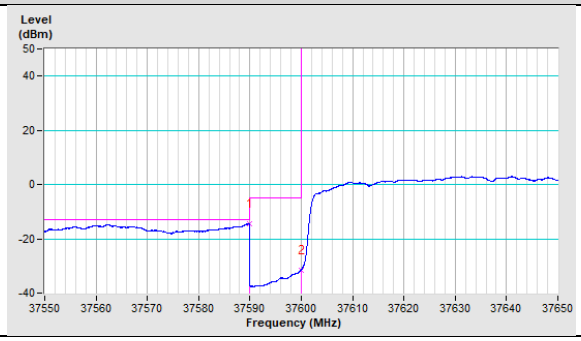
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	27.4853	-13.62	-13	-0.62	PASS
147 (H)	27.4853	-13.65	-13	-0.65	PASS

EIRP= Raw Value(dBm)+correction Factor(dBm)
correction Factor(dBm)= 107 + Cable Loss (dB) + Antenna Factor (dB/m)+20Log(2)-104.8

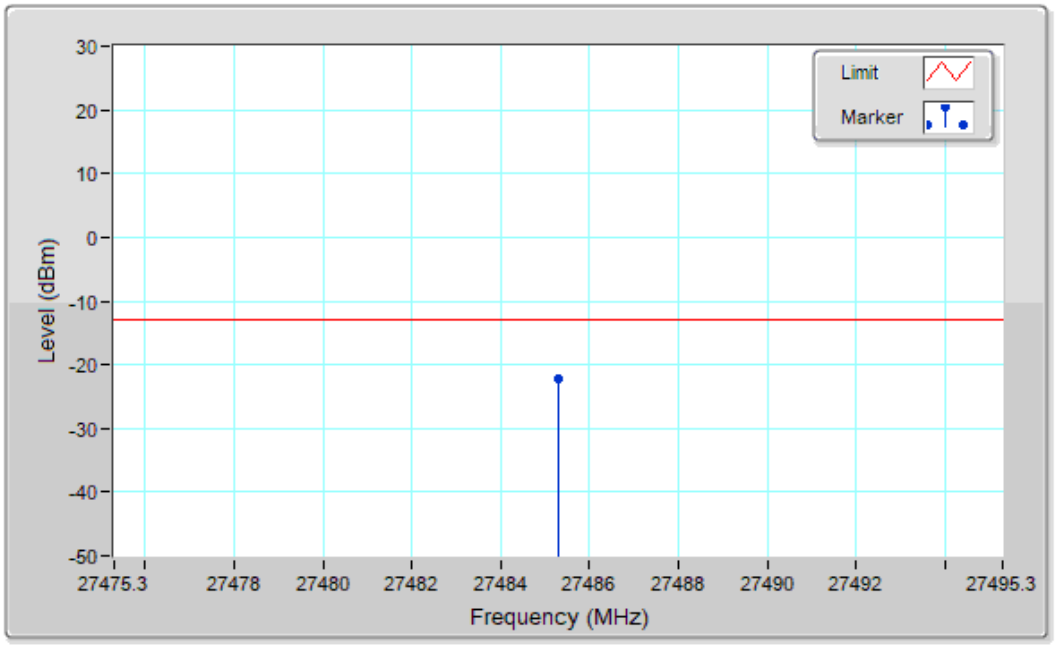
Low Channel (Adjacent to the licensee's block greater than 10% of channel BW)-MIMO

Beam ID	EIRP Power (dBm)	TRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-10.62	-22.27	-13	-9.27	Pass

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

Beam 19	Beam 147
	

Beam 19+147 TRP



Marker Frequency (MHz) : 27485.3 TRP (dBm) : -22.27 Margine (dB) : -9.27

High Channel-SISO
(Adjacent to the licensee's block equal to 10% of channel BW)

BPSK / 1RB

Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	28.3501	-22.59	19.44	-42.03	-5	-37.03	Pass
147 (H)	28.3501	-22.59	19.44	-42.03	-5	-37.03	Pass

*EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
*Conducted Power = EIRP - Array Gain

High Channel-MIMO
(Adjacent to the licensee's block equal to 10% of channel BW)

Beam ID	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-19.57	19.44	-39.01	-5	-34.01	PASS

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)
*Conducted Power = EIRP - Array Gain

High Channel-SISO
(Adjacent to the licensee's block greater than 10% of channel BW / From 28360 MHz to 28400 MHz)

BPSK / 1RB

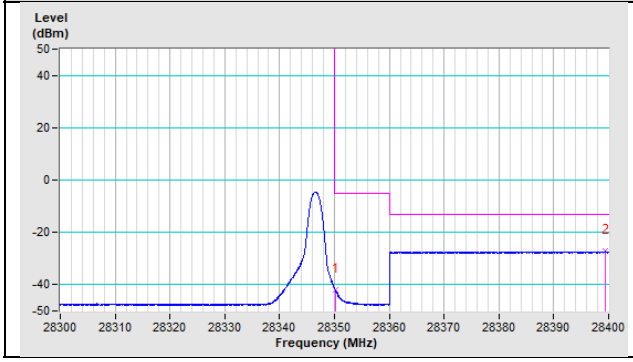
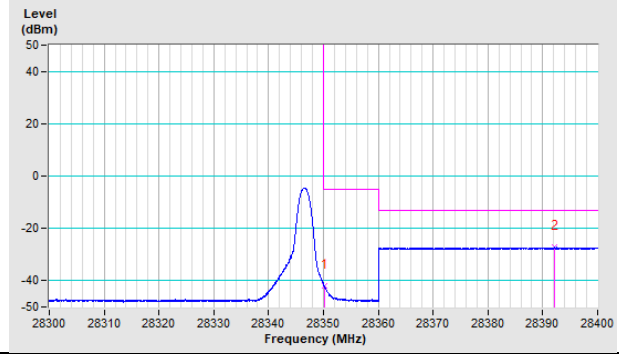
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	28.3993	-27.32	-13	-14.32	Pass
147 (H)	28.3921	-27.28	-13	-14.28	Pass

EIRP= Raw Value(dBm)+correction Factor(dBm)
correction Factor(dBm)= 107 + Cable Loss (dB) + Antenna Factor (dB/m)+20Log(2)-104.8

High Channel-MIMO
(Adjacent to the licensee's block greater than 10% of channel BW / From 28360 MHz to 28400 MHz)

Beam ID	EIRP Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-24.28	-13	-11.28	Pass

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

Beam 19	Beam 147
	

High Channel-SISO
(Adjacent to the licensee's block equal to 10% of channel BW)

BPSK / Full RB

Beam ID	Frequency (GHz)	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	28.3501	-12.36	19.44	-31.80	-5	-26.08	Pass
147 (H)	28.3501	-12.26	19.44	-31.70	-5	-26.7	Pass

*EIRP(dBm) = Raw Value(dBm) +107+ Antenna Factor(dB/m) +Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
*Conducted Power = EIRP - Array Gain

High Channel-MIMO
(Adjacent to the licensee's block equal to 10% of channel BW)

Beam ID	EIRP Value (dBm)	Array Gain (dBi)	Conducted Power (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-9.29	19.44	-28.73	-5	-23.73	PASS

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)
*Conducted Power = EIRP - Array Gain

High Channel-SISO
(Adjacent to the licensee's block greater than 10% of channel BW / From 28360 MHz to 28400 MHz)

BPSK / 1RB

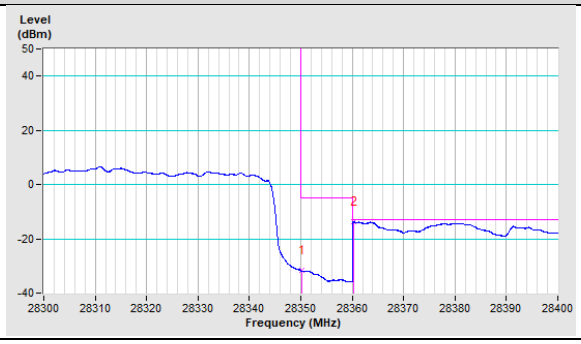
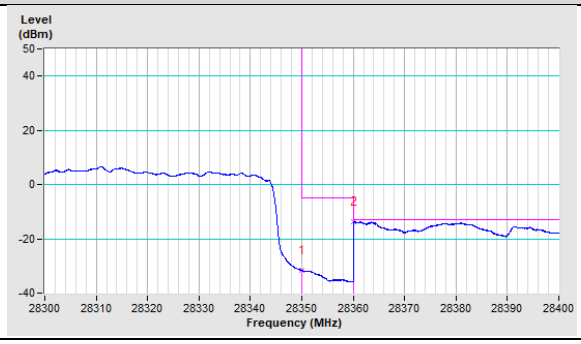
Beam ID	Frequency (GHz)	EIRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19 (V)	28.3602	-13.81	-13	-0.81	Pass
147 (H)	28.3600	-13.71	-13	-0.71	Pass

EIRP= Raw Value(dBm)+correction Factor(dBm)
correction Factor(dBm)= 107 + Cable Loss (dB) + Antenna Factor (dB/m)+20Log(2)-104.8

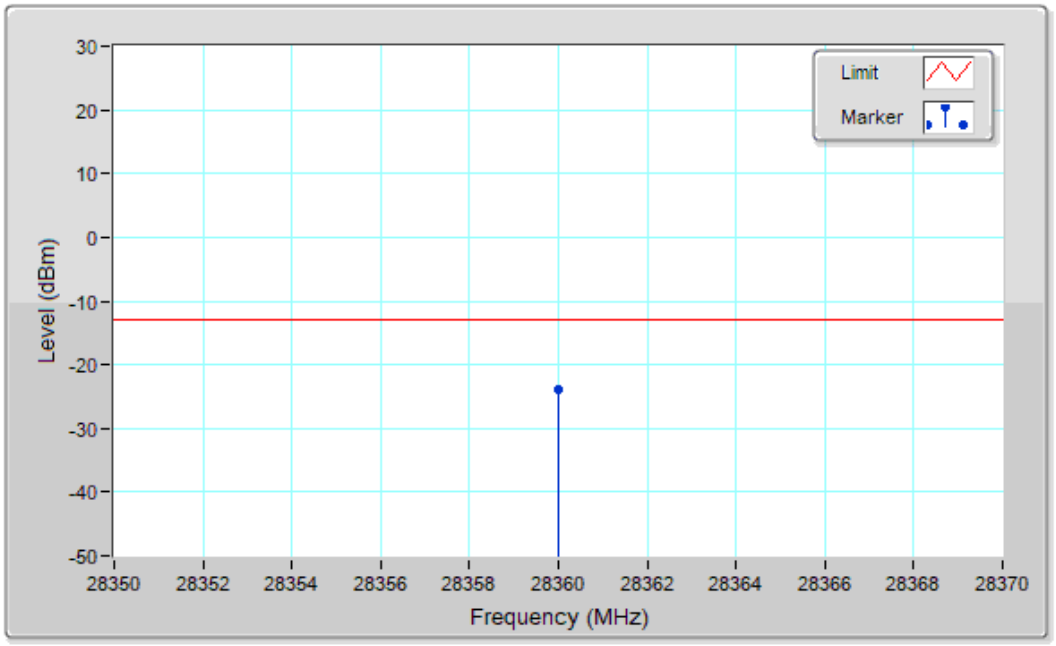
High Channel-MIMO
(Adjacent to the licensee's block greater than 10% of channel BW / From 28360 MHz to 28400 MHz)

Beam ID	EIRP Power (dBm)	TRP Value (dBm)	Limit (dBm)	Margin (dB)	Result
19+147 (V+H)	-10.74	-23.86	-13	-10.86	Pass

*To address compliance of MIMO RSE per KDB 662911 D01, the MIMO RSE EIRP is calculated by summing the worst case H Beam EIRP and V Beam EIRP in linear powers units then converted back to dBm: EIRP(H Beam) + EIRP(V Beam) = EIRP(MIMO)

Beam 19	Beam 147
	

Beam 19+147 TRP



Marker Frequency (MHz) : 28360 TRP (dBm) : -23.86 Margine (dB) : -10.86

4.5 Frequency Stability Measurement

4.5.1 Limits of Frequency Stability Measurement

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency band.

4.5.2 Test Procedure

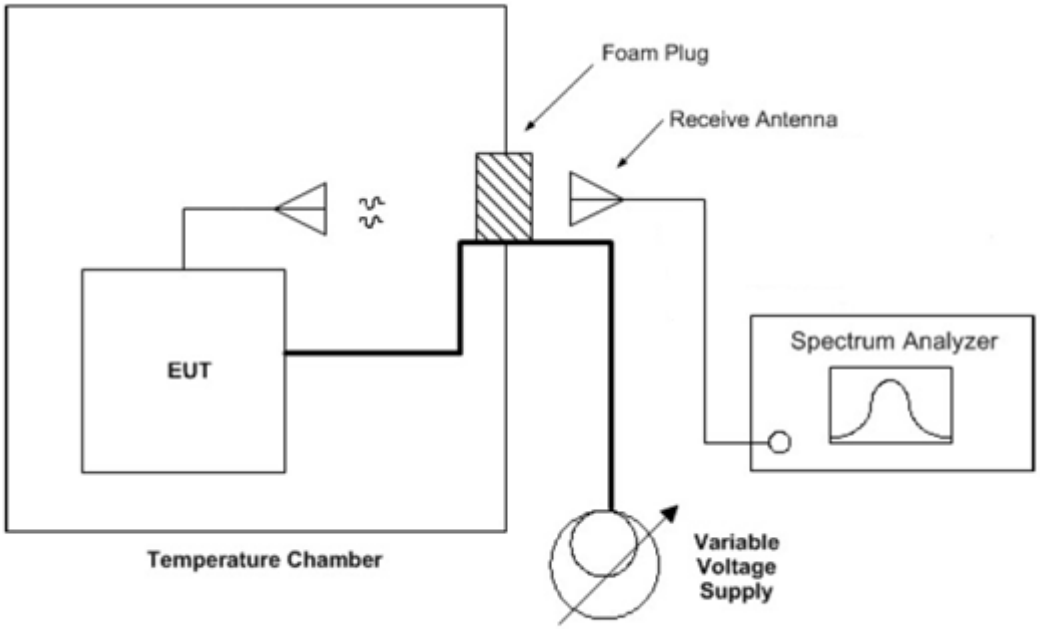
a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.

b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.

c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the ±0.5 ℃ during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

Note: The frequency error was recorded from the communication simulator.

4.5.3 Test Setup



4.5.4 Test Result

Frequency Stability Versus Temp.

n260				
Temp. (℃)	Power Supply (Vdc)	Measured Frequency (MHz)	FT, ppm	Pass/Fail
-30	56	38849.682300	-0.000005	Pass
-20	56	38849.231200	-0.000017	Pass
-10	56	38849.932000	0.000001	Pass
0	56	38849.886030	0.000000	Pass
10	56	38849.827600	-0.000001	Pass
20	56	38849.834320	-0.000001	Pass
30	56	38849.735320	-0.000004	Pass
40	56	38849.643900	-0.000006	Pass
50	56	38849.823400	-0.000001	Pass
60	56	38849.880000	0.000000	Pass
70	56	38849.880000	0.000000	Pass

Frequency Error vs. Voltage

n260				
Temp. (℃)	Power Supply (Vdc)	Measured Frequency (MHz)	FT, ppm	Pass/Fail
20	57.00	38849.234300	-0.000017	Pass
	56.00	38849.834320	-0.000001	Pass
	54.00	38849.775420	-0.000003	Pass

Frequency Stability Versus Temp.

n261				
Temp. (℃)	Power Supply (Vdc)	Measured Frequency (MHz)	FT, ppm	Pass/Fail
-30	56	27923.332100	-0.000007	Pass
-20	56	27923.520620	0.000000	Pass
-10	56	27923.134300	-0.000014	Pass
0	56	27923.468300	-0.000002	Pass
10	56	27923.413400	-0.000004	Pass
20	56	27923.573100	0.000002	Pass
30	56	27923.732200	0.000008	Pass
40	56	27923.960300	0.000016	Pass
50	56	27923.983420	0.000017	Pass
60	56	27924.132400	0.000022	Pass
70	56	27924.236000	0.000026	Pass

Frequency Error vs. Voltage

n261				
Temp. (℃)	Power Supply (Vdc)	Measured Frequency (MHz)	FT, ppm	Pass/Fail
20	57.00	27923.521620	0.000000	Pass
	56.00	27923.573100	0.000002	Pass
	54.00	27923.620430	0.000004	Pass

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

FCC accreditation scope:

Web Site:
https://apps.fcc.gov/oetcf/eas/reports/ViewTestFirmAccredScopes.cfm?calledFromFrame=N&RequestTimeout=500&regnum_specified=N&test_firm_id=7635

Scope	FCC Rule Parts	Maximum Assessed Frequency in Mhz	Status	Expiration Date	Recognition Date
Intentional Radiators	FCC Part 15 Subpart C	300000.00	Approved	08-10-2022	08-11-2020
U-NII without DFS Intentional Radiators	FCC Part 15, Subpart E	300000.00	Approved	08-10-2022	08-11-2020
U-NII with DFS Intentional Radiators	FCC Part 15, Subpart E	300000.00	Approved	08-10-2022	08-11-2020
UWB Intentional Radiators	FCC Part 15, Subpart F	300000.00	Approved	08-10-2022	08-11-2020
BPL Intentional Radiators	FCC Part 15, Subpart G	300000.00	Approved	08-10-2022	08-11-2020
White Space Device Intentional Radiators	FCC Part 15, Subpart H	300000.00	Approved	08-10-2022	08-11-2020
Commercial Mobile Services	Part 22 (cellular), Part 24, Part 25 (below 3 GHz), Part 27	300000.00	Approved	08-10-2022	08-11-2020
General Mobile Radio Services	Part 22 (non-cellular), Part 90 (below 3 GHz), Part 95 (below 3 GHz), Part 97 (below 3 GHz),Part 101 (below 3 GHz)	300000.00	Approved	08-10-2022	08-11-2020
Citizens Broadband Radio Services	Part 96	300000.00	Approved	08-10-2022	08-11-2020
Maritime and Aviation Radio Services	Part 80, Part 87	300000.00	Approved	08-10-2022	08-11-2020
Microwave and Millimeter Bands Radio Services	Part 25 (above 3 GHz), Part 30, Part 74, Part 90 (above 3 GHz), Part 95 (above 3 GHz), Part 97 (above 3 GHz) Part 101	300000.00	Approved	08-10-2022	08-11-2020
RF Exposure		6000.00	Approved	08-10-2022	08-11-2020
Hearing Aid Compatibility	Part 20	6000.00	Approved	08-10-2022	08-11-2020
Signal Boosters	Part 20, Part 90.219	300000.00	Approved	08-10-2022	08-11-2020

If you have any comments, please feel free to contact us at the following:

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Email: service.adt@tw.bureauveritas.com
Web Site: www.bureauveritas-adt.com

The address and road map of all our labs can be found in our web site also.

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