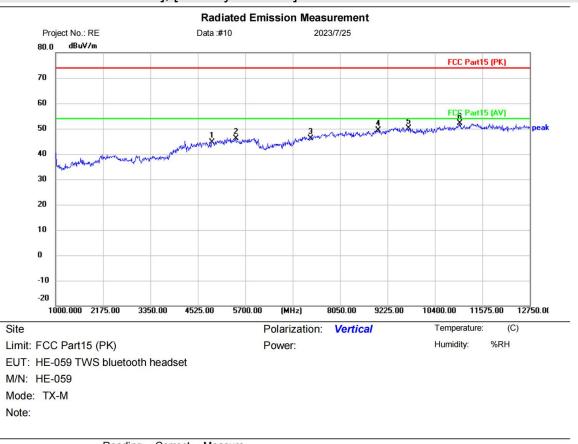


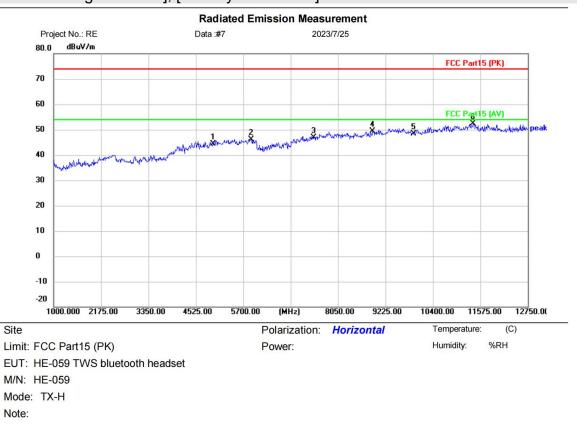
[TestMode: TX mid channel]; [Polarity: Vertical]



		NAL I-			ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4882.000	40.03	4.60	44.63	74.00	-29.37	peak	
2		5465.000	39.97	6.22	46.19	74.00	- <mark>27.81</mark>	peak	
3		7323.000	38.41	7.82	46.23	74.00	- <mark>27.77</mark>	peak	
4		8990.000	38.69	10.63	49.32	74.00	- <mark>24</mark> .68	peak	
5		9764.000	38.39	11.76	50.15	74.00	-23.85	peak	
6	*	11022.75	38.34	13.69	52.03	74.00	- <mark>21.97</mark>	peak	

*:Maximum da	ta x:Over limit	!:over margin			(Reference Only
Receiver:	ESR_1		Spectrum Analyzer:	FSP40	
Antenna:	EZ 9120D 1G-18G new		Engineer Signature		
t Result: F	Pass				



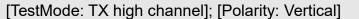


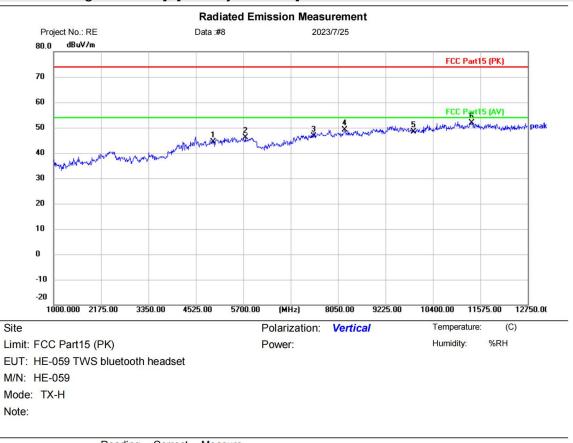
[TestMode: TX high channel]; [Polarity: Horizontal]

No.	Mk	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		4960.000	38.95	5.47	44.42	74.00	-29.58	peak	
2		5888.000	39.47	6.71	46.18	74.00	-27.82	peak	
3		7440.000	38.62	8.24	46.86	74.00	- <mark>27.14</mark>	peak	
4		8907.750	38.89	10.37	49.26	74.00	- <mark>24</mark> .74	peak	
5		9920.000	36.44	11.96	48.40	74.00	-25.60	peak	
6	*	11398.75	38.96	13.41	52.37	74.00	-21.63	peak	

*:Maximum c	lata	x:Over limit	!:over margin			(Reference Only
Receiver:	ESR	_1		Spectrum Analyzer:	FSP40	
Antenna:	EZ 9	120D 1G-18G new		Engineer Signature		
st Result:	Pas	S				







Mk	. Freq.	Reading Level	Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
	4960.000	38.85	5.47	44.32	74.00	-29.68	peak	
	5747.000	39.73	6.44	46.17	74.00	-27.83	peak	
	7440.000	38.31	8.24	46.55	74.00	- <mark>27.45</mark>	peak	
	8214.500	40.62	8.57	49.19	74.00	- <mark>24</mark> .81	peak	
	9920.000	36.52	11.96	48.48	74.00	-25.52	peak	
*	11363.50	38.58	13.40	51.98	74.00	-22.02	peak	
		MHz 4960.000 5747.000 7440.000 8214.500 9920.000	Mk. Freq. Level MHz dBuV 4960.000 38.85 5747.000 39.73 7440.000 38.31 8214.500 40.62 9920.000 36.52	Mk. Freq. Level Factor MHz dBuV dB 4960.000 38.85 5.47 5747.000 39.73 6.44 7440.000 38.31 8.24 8214.500 40.62 8.57 9920.000 36.52 11.96	Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m 4960.000 38.85 5.47 44.32 5747.000 39.73 6.44 46.17 7440.000 38.31 8.24 46.55 8214.500 40.62 8.57 49.19 9920.000 36.52 11.96 48.48	Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV/m dBuV/m 4960.000 38.85 5.47 44.32 74.00 5747.000 39.73 6.44 46.17 74.00 7440.000 38.31 8.24 46.55 74.00 8214.500 40.62 8.57 49.19 74.00 9920.000 36.52 11.96 48.48 74.00	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB 4960.000 38.85 5.47 44.32 74.00 -29.68 5747.000 39.73 6.44 46.17 74.00 -27.83 7440.000 38.31 8.24 46.55 74.00 -27.45 8214.500 40.62 8.57 49.19 74.00 -24.81 9920.000 36.52 11.96 48.48 74.00 -25.52	Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB Detector 4960.000 38.85 5.47 44.32 74.00 -29.68 peak 5747.000 39.73 6.44 46.17 74.00 -27.83 peak 7440.000 38.31 8.24 46.55 74.00 -27.45 peak 8214.500 40.62 8.57 49.19 74.00 -24.81 peak 9920.000 36.52 11.96 48.48 74.00 -25.52 peak

*:Maximum d	ata	x:Over limit	l:over margin			(Reference Only
Receiver:	ESR	_1		Spectrum Analyzer:	FSP40	
Antenna:	EZ 9	120D 1G-18G new		Engineer Signature		
t Result:	Pas	s				



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Remark:

- 1. Final Level =Receiver Read level + Correct factor
- 2. Correct factor = Antenna Factor + Cable Loss Preamplifier Factor
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

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16 RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS

Test Standard	47 CFR Part 15, Subpart C 15.247					
Test Method	ANSI C63.10 (2013) Section 6.10.5					
Test Mode (Pre-Scan)	ТХ					
Test Mode (Final Test)	ТХ					
Tester	Jozu					
Temperature	25 ℃					
Humidity	60%					

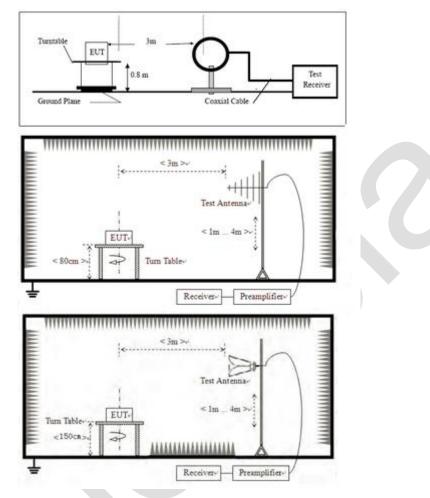
16.1 LIMITS

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation.



16.2 BLOCK DIAGRAM OF TEST SETUP



16.3 PROCEDURE

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.



h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

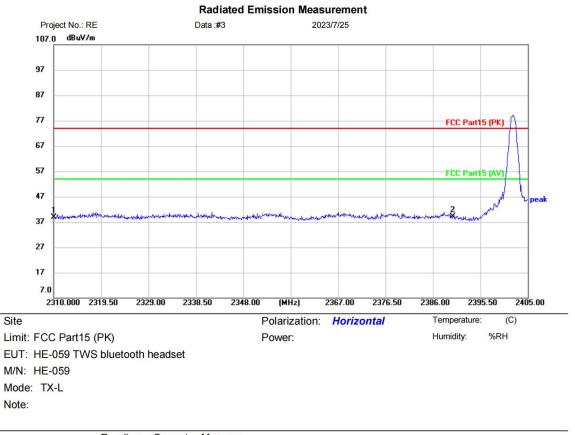
Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



16.4 TEST DATA

[TestMode: TX low channel]; [Polarity: Horizontal]



No.	M	k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		231	10.000	43.23	-4.40	38.83	74.00	-35.17	peak	
2	*	239	90.000	43.56	-4.31	39.25	74.00	-34.75	peak	

*:Maximum dat	a x:Over limit	:over margin			(Reference Only
Receiver:	ESR_1		Spectrum Analyzer:	FSP40	
Antenna:	EZ 9120D 1G-18G new		Engineer Signature		
st Result: P	ass				



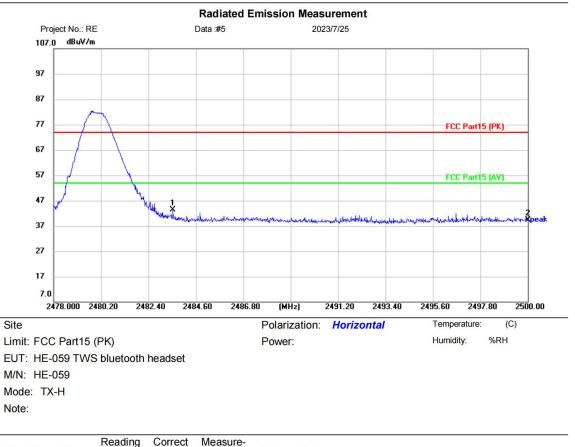
Radiated Emission Measurement Project No.: RE Data :#4 2023/7/25 107.0 dBuV/m 97 87 77 FCC Part15 (PK) 67 57 FCC Part15 (AV) 47 2 37 27 17 7.0 2310.000 2319.50 2329.00 2338.50 2348.00 (MHz) 2376.50 2395.50 2405.00 2367.00 2386.00 Site Polarization: Vertical Temperature: (C) Humidity: %RH Limit: FCC Part15 (PK) Power: EUT: HE-059 TWS bluetooth headset M/N: HE-059 Mode: TX-L Note:

[TestMode: TX low channel]; [Polarity: Vertical]

No.	Mł	k. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	2310.000	44.20	-4.40	39.80	74.00	-34.20	peak	
2		2390.000	43.69	-4.31	39.38	74.00	-34.62	peak	





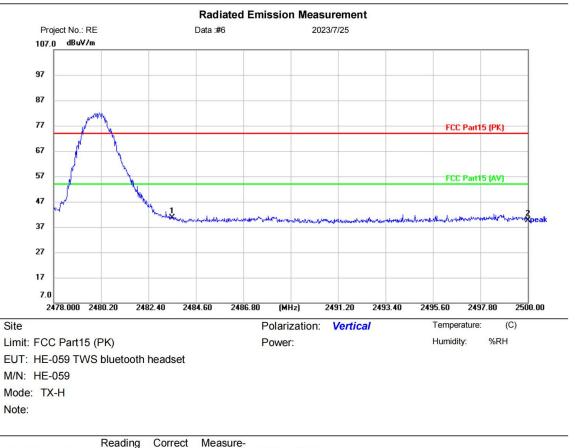


[TestMode: TX high channel]; [Polarity: Horizontal]

No.	N	٨k.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	* 24	183.522	48.09	-4.64	43.45	74.00	-30.55	peak	
2		25	500.000	44.08	-4.75	39.33	74.00	-34.67	peak	

*:Maximum	data	x:Over limit	!:over margin			(Reference Only
Receiver:	ESR	_1		Spectrum Analyzer:	FSP40	
Antenna:	EZ 9	120D 1G-18G new		Engineer Signature		
st Result	: Pas	s				





[TestMode: TX high channel]; [Polarity: Vertical]

No.	M	lk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	*	24	83.500	45.26	-4.64	40.62	74.00	-33.38	peak	
2		25	00.000	44.31	-4.75	39.56	74.00	-34.44	peak	

*:Maximum	data	x:Over limit	!:over margin			(Reference Only
Receiver:	ESR	_1		Spectrum Analyzer:	FSP40	
Antenna:	EZ 9	120D 1G-18G new		Engineer Signature		
st Result	: Pas	s				



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Remark:

- 1. Final Level =Receiver Read level + Correct factor
- 2. Correct factor = Antenna Factor + Cable Loss Preamplifier Factor
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.

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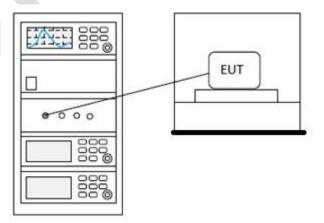
Test Standard	47 CFR Part 15, Subpart C 15.247			
Test Method	ANSI C63.10 (2013) Section 7.8.8 & Section 11.13.3.2			
Test Mode (Pre-Scan)	ТХ			
Test Mode (Final Test)	ТХ			
Tester	Jozu			
Temperature	25°C			
Humidity	60%			

17 CONDUCTED BAND EDGES MEASUREMENT

17.1 LIMITS

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

17.2 BLOCK DIAGRAM OF TEST SETUP





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17.3 TEST DATA



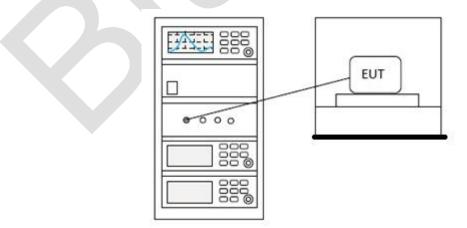
18 DWELL TIME

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.4
Test Mode (Pre-Scan)	ТХ
Test Mode (Final Test)	ТХ
Tester	Jozu
Temperature	25°C
Humidity	60%

18.1 LIMITS

Frequency(MHz)	Limit
	0.4S within a 20S period(20dB
002 028	bandwidth<250kHz)
902-928	0.4S within a 10S period(20dB
	bandwidth≥250kHz)
	0.4S within a period of 0.4S multiplied by the
2400-2483.5	number
	of hopping channels
5725-5850	0.4S within a 30S period

18.2 BLOCK DIAGRAM OF TEST SETUP





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18.3 TEST DATA



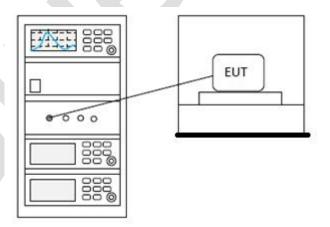
19 HOPPING CHANNEL NUMBER

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.3
Test Mode (Pre-Scan)	ТХ
Test Mode (Final Test)	ТХ
Tester	Jozu
Temperature	25 ℃
Humidity	60%

19.1 LIMITS

Frequency range(MHz)	Number of hopping channels (minimum)		
002.029	50 for 20dB bandwidth <250kHz		
902-928	25 for 20dB bandwidth ≥250kHz		
2400-2483.5	15		
5725-5850	75		

19.2 BLOCK DIAGRAM OF TEST SETUP



19.3 TEST DATA



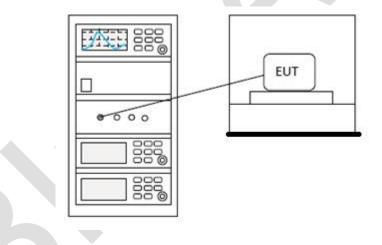
20 CARRIER FREQUENCIES SEPARATION

Test Standard	47 CFR Part 15, Subpart C 15.247
Test Method	ANSI C63.10 (2013) Section 7.8.2
Test Mode (Pre-Scan)	ТХ
Test Mode (Final Test)	ТХ
Tester	Jozu
Temperature	25 ℃
Humidity	60%

20.1 LIMITS

Limit: 2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W

20.2 BLOCK DIAGRAM OF TEST SETUP



20.3 TEST DATA



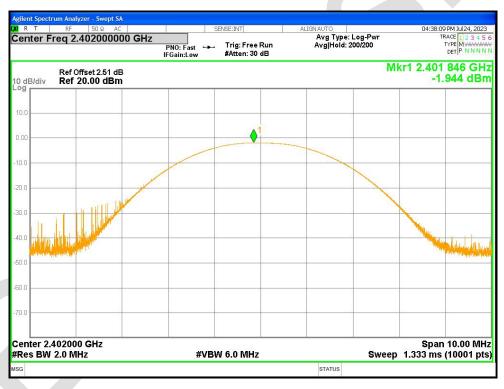
21 APPENDIX

Appendix1

Maximum Conducted Output Power

Condition	Mode	Frequency	Antenna	Conducted Power	Limit	Verdict
		(MHz)		(dBm)	(dBm)	
NVNT	1-DH1	2402	Ant1	-1.944	21	Pass
NVNT	1-DH1	2441	Ant1	-0.42	21	Pass
NVNT	1-DH1	2480	Ant1	-0.419	21	Pass
NVNT	2-DH1	2402	Ant1	-1.123	21	Pass
NVNT	2-DH1	2441	Ant1	0.389	21	Pass
NVNT	2-DH1	2480	Ant1	0.373	21	Pass

Power NVNT 1-DH1 2402MHz Ant1



Power NVNT 1-DH1 2441MHz Ant1



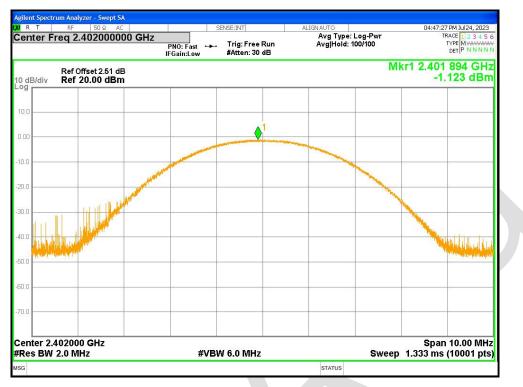


Power NVNT 1-DH1 2480MHz Ant1

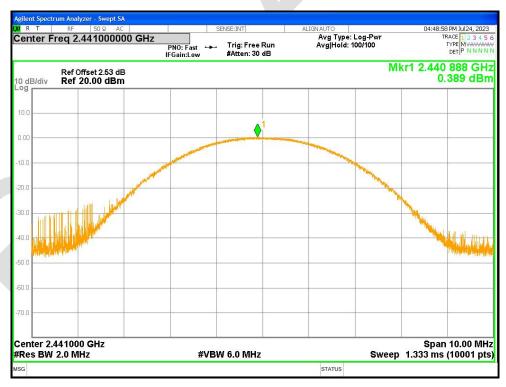


Power NVNT 2-DH1 2402MHz Ant1





Power NVNT 2-DH1 2441MHz Ant1



Power NVNT 2-DH1 2480MHz Ant1





_,



-20dB Bandwidth

Condition	Mode	Frequency	Antenna	-20 dB Bandwidth	Limit -20 dB	Verdict
		(MHz)		(MHz)	Bandwidth (MHz)	
NVNT	1-DH1	2402	Ant1	0.871	0	Pass
NVNT	1-DH1	2441	Ant1	0.866	0	Pass
NVNT	1-DH1	2480	Ant1	0.872	0	Pass
NVNT	2-DH1	2402	Ant1	1.248	0	Pass
NVNT	2-DH1	2441	Ant1	1.248	0	Pass
NVNT	2-DH1	2480	Ant1	1.249	0	Pass

-20dB Bandwidth NVNT 1-DH1 2402MHz Ant1



-20dB Bandwidth NVNT 1-DH1 2441MHz Ant1



R T RF 50 Ω AC		SENSE:INT	ALIGNAUTO	04:40:15 PM Jul 24, 2023
nter Freq 2.44100000	GHz #IFGain:Low	Center Freq: 2.441000	000 GHz Avg Hold: 300/300	Radio Std: None Radio Device: BTS
Ref Offset 2.53 dB dB/div Ref 22.53 dBm				Mkr3 2.441444 GHz -22.671 dBm
9 5 3		1		
5	<u>∧²</u> ~~	Andrew	~~~~ A3	
5	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		mil	
5				
nter 2.441 GHz es BW 30 kHz		#VBW 100 k	Hz	Span 2 MH Sweep 2.667 m
Occupied Bandwidt	h	Total Power	6.09 dBm	
8	20.50 kHz			
ransmit Freq Error	11.204 kHz	OBW Power	99.00 %	
c dB Bandwidth	865.7 kHz	x dB	-20.00 dB	
<u></u>			STATUS	

-20dB Bandwidth NVNT 1-DH1 2480MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2402MHz Ant1





-20dB Bandwidth NVNT 2-DH1 2441MHz Ant1



-20dB Bandwidth NVNT 2-DH1 2480MHz Ant1



gilent Spectrum Analyzer - Occupied BV R T RF 50.0 AC Center Freq 2.480000000		Center Freq: 2.480000	ALIGNAUTO 100 GHz Avg Hold: 300/300	04:50:45 PM Jul 24, 2023 Radio Std: None Radio Device: BTS
Ref Offset 2.58 dE 0 dB/div Ref 22.58 dBm				Mkr3 2.480637 GHz -21.674 dBm
og 2.6				
.58		$ \rangle^1$		
42		Andrew	1 mm	
7.4	2 mg m		- w	
7.4	8			7
7.4				
7.4	2			Mar posteron
7.4				
enter 2.48 GHz Res BW 30 kHz		#VBW 100 ki	Span 2 MHz Sweep 2.667 ms	
Occupied Bandwidtl	า	Total Power	5.80 dBm	
1.1	1637 MHz			
Transmit Freq Error	11.922 kHz	OBW Power	99.00 %	
x dB Bandwidth	1.249 MHz	x dB	-20.00 dB	
c			STATUS	



Occupied Channel Bandwidth

Condition	Mode	Frequency (MHz)	Antenna	99% OBW (MHz)
NVNT	1-DH1	2402	Ant1	0.81400
NVNT	1-DH1	2441	Ant1	0.81669
NVNT	1-DH1	2480	Antl	0.82000
NVNT	2-DH1	2402	Ant1	1.1679
NVNT	2-DH1	2441	Antl	1.1668
NVNT	2-DH1	2480	Ant1	1.1678

OBW NVNT 1-DH1 2402MHz Ant1



OBW NVNT 1-DH1 2441MHz Ant1





OBW NVNT 1-DH1 2480MHz Ant1



OBW NVNT 2-DH1 2402MHz Ant1





OBW NVNT 2-DH1 2441MHz Ant1



OBW NVNT 2-DH1 2480MHz Ant1



Ref Offset 2.58 dB Ref 22.58 dB dB/div AugHold: 300/300 Radio Device: BTS Ref Offset 2.58 dB aughout a state of the state	RT RF 50Ω AC			ALIGNAUTO	04:50:37 PM Jul 24, 2023	
AB/div Ref 22.58 dBm AB/div Ref 22.58 dBm	nter Freq 2.480000000 GHz #IFGain:Lo				Radio Std: None	
a a a a a a a a a a a a a a a a a a a	dB/div Ref 22.58 dBm					
a definition of the second sec	" · · · · · · · · · · · · · · · · · ·					
Image: Constraint of the second se						
hter 2.48 GHz es BW 30 kHz Cocupied Bandwidth 1.1678 MHz Transmit Freq Error 10.613 kHz OBW Power 99.00 %	2		A	~		
hter 2.48 GHz as BW 30 kHz Cocupied Bandwidth 1.1678 MHz Transmit Freq Error 10.613 kHz OBW Power 99.00 %		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	where a m	an month		
hter 2.48 GHz es BW 30 kHz Cocupied Bandwidth 1.1678 MHz Transmit Freq Error 10.613 kHz OBW Power 99.00 %		ŕ		~	3	
hter 2.48 GHz es BW 30 kHz Cocupied Bandwidth 1.1678 MHz Fransmit Freq Error 10.613 kHz OBW Power 99.00 %					0 20	
nter 2.43 GHz es BW 30 kHz Span 3 Mi Sweep 3.333 n Doccupied Bandwidth Total Power 5.95 dBm 1.1678 MHz Fransmit Freq Error 10.613 kHz OBW Power 99.00 %	n warman w			~	man	
nter 2.48 GHz Span 3 Mi es BW 30 kHz #VBW 100 kHz Span 3 Mi Sweep 3.333 n Dccupied Bandwidth Total Power 5.95 dBm 1.1678 MHz Transmit Freq Error 10.613 kHz OBW Power 99.00 %					the months and	
25 BW 30 kHz #VBW 100 kHz Sweep 3.333 n Dccupied Bandwidth Total Power 5.95 dBm 1.1678 MHz Transmit Freq Error 10.613 kHz OBW Power 99.00 %				2		
I.1678 MHz Iransmit Freq Error 10.613 kHz OBW Power 99.00 %		Ц	#VBW 100 k	Hz	Span 3 MHz Sweep 3.333 ms	
1.1678 MHz Transmit Freq Error 10.613 kHz OBW Power 99.00 %	Occupied Bandwidt	h	Total Power	5.95 dBm		
	1.	1678 MHz				
dB Bandwidth 1.251 MHz x dB -20.00 dB	ransmit Freq Error	10.613 kHz	OBW Power	99.00 %		
	dB Bandwidth	1.251 MHz	x dB	-20.00 dB		

/1