



Gain:Low #Atter	VBW 620 kHz Total Power % of OBW Po x dB	15.9 wer 99	5.193763 GHz 0.14748 dBm Span 30 MHz Sweep 1.333 ms 9 dBm 9.00 % .00 dB	Center Freq 5.20000000 GHz 5.20000000 GHz 3.00000 MHz <u>Auto Mar</u> Freq Offset 0 Hz
803 MHz 7.977 kHz	Total Power % of OBW Po	15.5 wer 99	Span 30 MHz Sweep 1.333 ms 9 dBm 9.00 %	5.20000000 GHz CF Step 3.000000 MHz <u>Auto</u> Mar Freq Offset
803 MHz 7.977 kHz	Total Power % of OBW Po	15.5 wer 99	Span 30 MHz Sweep 1.333 ms 9 dBm 9.00 %	5.20000000 GHz CF Step 3.000000 MHz <u>Auto</u> Mar Freq Offset
803 MHz 7.977 kHz	Total Power % of OBW Po	15.5 wer 99	Span 30 MHz Sweep 1.333 ms 9 dBm 9.00 %	3.000000 MHz <u>Auto</u> Man Freq Offset
803 MHz 7.977 kHz	Total Power % of OBW Po	wer 99	Span 30 MHz Sweep 1.333 ms 9 dBm 9.00 %	3.000000 MHz <u>Auto</u> Man Freq Offset
803 MHz 7.977 kHz	Total Power % of OBW Po	wer 99	Sweep 1.333 ms 9 dBm 9.00 %	3.000000 MHz <u>Auto</u> Mar Freq Offset
803 MHz 7.977 kHz	Total Power % of OBW Po	wer 99	Sweep 1.333 ms 9 dBm 9.00 %	3.000000 MHz <u>Auto</u> Mar Freq Offset
803 MHz 7.977 kHz	Total Power % of OBW Po	wer 99	Sweep 1.333 ms 9 dBm 9.00 %	3.000000 MHz <u>Auto</u> Mar Freq Offset
803 MHz 7.977 kHz	Total Power % of OBW Po	wer 99	Sweep 1.333 ms 9 dBm 9.00 %	3.000000 MHz <u>Auto</u> Mar Freq Offset
803 MHz 7.977 kHz	Total Power % of OBW Po	wer 99	Sweep 1.333 ms 9 dBm 9.00 %	3.000000 MH <u>Auto</u> Mar Freq Offse
7.977 kHz	% of OBW Po	wer 99	9.00 %	<u>Auto</u> Mar Freq Offse
7.977 kHz				
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		<u> </u>		
ORM NA	INT N20 5240	IVIHZ AN		
		,	10:41:48 PM Sep 25, 2023	
Trig: I	Free Run Avg H	old: 100/100		
Guilleon wither		Mkr1		
			1.3071 dBm	
				Center Fred
he as the all the at a set of		A . A saldward as the		5.240000000 GH
alan na ang kana kana kana na kana kana ka		and the second second second		
			Mun Mendren Apply markers and	
#			Span 30 MHz Sween 1 333 ms	CrStep
				3.000000 MHz <u>Auto</u> Mar
	Total Power	16.	5 dBm	
35 MHz				Freq Offset
95.812 kHz	% of OBW Po	wer 99	9.00 %	0 Hz
29.21 MHz	x dB	-26	.00 dB	
	Iz Centr Gain:Low #Atte	IZ Gain:Low Center Freq: 5.24000000 GH: Trig: Free Run AvgH #Atten: 30 dB #VBW 620 kHz Total Power S35 MHz 95.812 kHz % of OBW Po	OBW NVNT n20 5240MHz An	Lz Center Freq: 5.24000000 GHz Radio Std: None Gain:Low Trig: Free Run Avg Hold: 100/100 Radio Device: BTS Mkr1 5.243759 GHz 1.3071 dBm 1 1 1.3071 dBm 1

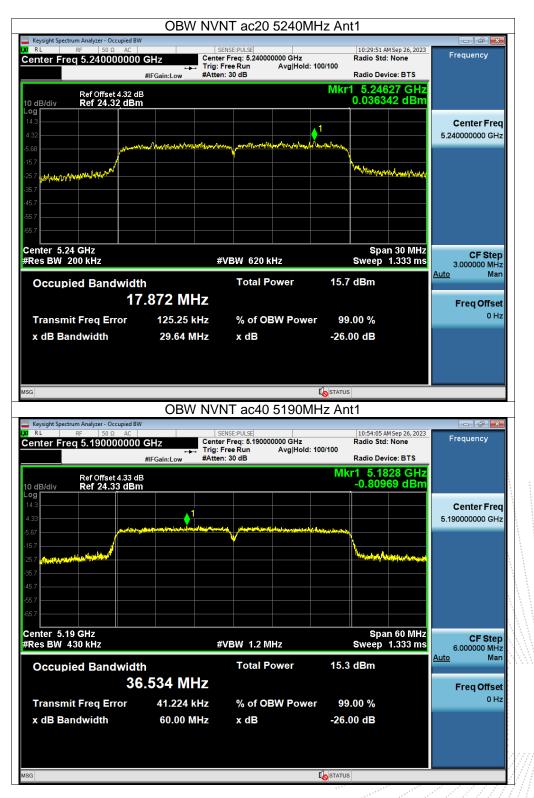


RL RF 50 Ω AC enter Freq 5.190000000	GHz Cent	SENSE:PULSE	4. 400/400	10:40:40 AM Sep 26, 2023 Radio Std: None	Frequency
		:FreeRun Avg Hol en:30 dB	d: 100/100	Radio Device: BTS	
Ref Offset 4.33 dB 0 dB/div Ref 24.33 dBm	3		Mkr1	5.187168 GHz -0.86650 dBm	
og 4.3					Conton Eng
.33		1			Center Freq 5.19000000 GHz
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5.7				Websetham albert an all stores	
5.7 Alada and Analy Philippine Analysis				White and the state of the loss	
5.7					
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enter 5.19 GHz				Span 60 MHz	
Res BW 430 kHz		#VBW 1.2 MHz		Sweep 1.333 ms	CF Step 6.000000 MHz
Occupied Bandwidth		Total Power	15.3	dBm	<u>Auto</u> Mar
	.457 MHz				F
		0/			Freq Offset
Transmit Freq Error	51.624 kHz	% of OBW Pow		.00 %	512
x dB Bandwidth	59.90 MHz	x dB	-26.	00 dB	
G				6	
		4 T 40 5000			
		/NI n40 5230N	/IHz Ant	1	
Keysight Spectrum Analyzer - Occupied BW	-	/NT n40 5230N	/IHz Ant		
RL RF 50 Ω AC	GHz Cent	SENSE:PULSE		10:45:47 AM Sep 26, 2023 Radio Std: None	Frequency
RL RF 50 Ω AC	GHz Cent →→ Trig	SENSE:PULSE	/IHz Ant	10:45:47 AM Sep 26, 2023	
RL RF 50 Ω AC enter Freq 5.230000000	GHz Cent →→→ #IFGain:Low #Att	SENSE:PULSE ter Freq: 5.230000000 GHz : Free Run Avg Hol	d: 100/100	10:45:47 AM Sep 26, 2023 Radio Std: None Radio Device: BTS 5.245396 GHz	
RL RF 50 Ω AC enter Freq 5.230000000 Ref Offset 4.33 dB 0 dB/div Ref 24.33 dBm	GHz Cent #⊪FGain:Low #Attr	SENSE:PULSE ter Freq: 5.230000000 GHz : Free Run Avg Hol	d: 100/100	10:45:47 AM Sep 26, 2023 Radio Std: None Radio Device: BTS	
RL RF 50 Ω AC enter Freq 5.230000000 Ref Offset 4.33 dB 0 dB/div Ref 24.33 dBm	GHz Cent #⊪FGain:Low #Attr	SENSE:PULSE ter Freq: 5.230000000 GHz : Free Run Avg Hol	d: 100/100	10:45:47 AM Sep 26, 2023 Radio Std: None Radio Device: BTS 5.245396 GHz	Frequency
RL RF 50 Ω AC enter Freq 5.230000000 Ref 0ffset 4.33 dB Ref 0ffset 4.33 dB 0 dB/div Ref 24.33 dBm 9g 4.3 A	GHz Cent #IFGain:Low #Atto	SENSE:PULSE er Freq: 5.23000000 GHz Free Run Avg Hol en: 30 dB	d: 100/100	10:45:47 AM Sep 26, 2023 Radio Std: None Radio Device: BTS 5.245396 GHz	Frequency Center Free
RL RF 50 Ω AC enter Freq 5.230000000 Ref Offset 4.33 dB 0 dB/div Ref 24.33 dBm og 33 67	GHz Cent #⊪FGain:Low #Attr	SENSE:PULSE ter Freq: 5.230000000 GHz : Free Run Avg Hol	d: 100/100	10:45:47 AM Sep 26, 2023 Radio Std: None Radio Device: BTS 5.245396 GHz	Frequency Center Free
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RL RF 50 Ω AC enter Freq 5.230000000 Ref Offset 4.33 dB D dB/div Ref 24.33 dBm 99 4.3 33 67 57 57 57	GHz Cent #IFGain:Low #Atto	SENSE:PULSE er Freq: 5.23000000 GHz Free Run Avg Hol en: 30 dB	d: 100/100	10:45:47 AMSep 26, 2023 Radio Std: None Radio Device: BTS 5.245396 GHz 0.083819 dBm	Frequency Center Freq
RL RF 50 Ω AC enter Freq 5.230000000 Ref Offset 4.33 dB 0 dB/div Ref 24.33 dBm 99 4.3 33 67 5.7 5.7 5.7 5.7	GHz Cent #IFGain:Low #Atto	SENSE:PULSE er Freq: 5.23000000 GHz Free Run Avg Hol en: 30 dB	d: 100/100	10:45:47 AMSep 26, 2023 Radio Std: None Radio Device: BTS 5.245396 GHz 0.083819 dBm	Frequency Center Freq
RL RF 50 Ω AC enter Freq 5.230000000 Ref Offset 4.33 dB 0 dB/div Ref 24.33 dBm 99 4.3 33 67 5.7 5.7 5.7 5.7 5.7 5.7 5.7	GHz Cent #IFGain:Low #Atto	SENSE:PULSE er Freq: 5.23000000 GHz Free Run Avg Hol en: 30 dB	d: 100/100	10:45:47 AMSep 26, 2023 Radio Std: None Radio Device: BTS 5.245396 GHz 0.083819 dBm	Frequency Center Freq
RL RF 50 m Ac enter Freq 5.230000000 Ref Offset 4.33 dB 0 dB/div Ref 24.33 dBm 4.3	GHz Cent #IFGain:Low #Atto	SENSE:PULSE er Freq: 5.23000000 GHz Free Run Avg Hol en: 30 dB	d: 100/100	10:45:47 AMSep 26, 2023 Radio Std: None Radio Device: BTS 5.245396 GHz 0.083819 dBm	Frequency Center Freq
RL RF 50 Ω AC enter Freq 5.230000000 Ref Offset 4.33 dB Ref 24.33 dBm D dB/div Ref 24.33 dBm Ref 24.33 dBm 29	GHz Cen Trigg #IFGain:Low TAL	SENSE:PULSE	d: 100/100	10:45:47 AM Sep 26, 2023 Radio Std: None Radio Device: BTS 5.245396 GHz 0.083819 dBm	Frequency Center Freq 5.23000000 GHz
RL RF 50 Q AC enter Freq 5.230000000 Ref Offset 4.33 dB	GHz Cen Trigg #IFGain:Low TAL	SENSE:PULSE er Freq: 5.23000000 GHz Free Run Avg Hol en: 30 dB	d: 100/100	10:45:47 AM Sep 26, 2023 Radio Std: None Radio Device: BTS 5.245396 GHz 0.083819 dBm	Frequency Center Freq 5.230000000 GHz 6.000000 MHz
RL RF 50 Ω AC enter Freq 5.230000000 Ref Offset 4.33 dB Ref 24.33 dBm 0 dB/div Ref 24.33 dBm Ref 24.33 dBm <td>GHz Cent #IFGain:Low #Atto</td> <td>SENSE:PULSE</td> <td>d: 100/100 Mkr1</td> <td>10:45:47 AM Sep 26, 2023 Radio Std: None Radio Device: BTS 5.245396 GHz 0.083819 dBm</td> <td>Frequency Center Freq 5.230000000 GHz 6.000000 MHz</td>	GHz Cent #IFGain:Low #Atto	SENSE:PULSE	d: 100/100 Mkr1	10:45:47 AM Sep 26, 2023 Radio Std: None Radio Device: BTS 5.245396 GHz 0.083819 dBm	Frequency Center Freq 5.230000000 GHz 6.000000 MHz
RL RF 50 D AC enter Freq 5.230000000 Ref Offset 4.33 dB Ref 24.33 dB 0 dB/div Ref 24.33 dB Ref 24.33 dB 43	GHz Cent #IFGain:Low #Atto	SENSE:PULSE ter Freq: 5.23000000 GHz Free Run Avg Hol en: 30 dB mage: sense sens	d: 100/100 Mkr1	10:45:47 AM Sep 26, 2023 Radio Std: None Radio Device: BTS 5.245396 GHZ 0.083819 dBm	Frequency Center Freq 5.23000000 GHz 5.23000000 GHz 6.00000 MHz Auto Mar
RL RF 50 Ω AC enter Freq 5.230000000 Ref Offset 4.33 dB Ref Offset 4.33 dB 0 dB/div Ref 24.33 dB Ref 24.33 dB 0 dB/d	GHz Cent Trig #IFGain:Low Trid Attributed Anna State Anna Anna Anna Anna Anna Anna Anna Ann	SENSE:PULSE er Freq: 5.23000000 GHz Free Run Avg Hol en: 30 dB #VBW 1.2 MHz Total Power	d: 100/100 Mkr1	10:45:47 AM Sep 26, 2023 Radio Std: None Radio Device: BTS 5.245396 GHz 0.083819 dBm	Frequency Center Freq 5.230000000 GHz 6.000000 MHz
RL RF 50 D AC enter Freq 5.230000000 Ref Offset 4.33 dB Ref 24.33 dBm 0 dB/div Ref 24.33 dBm Ref 24.33 dBm 0 dB/div Ref 24.30 kHz Ref 24.30 kHz <td>GHz Cen Trig #IFGain:Low #Att</td> <td>SENSE:PULSE ter Freq: 5.23000000 GHz Free Run Avg Hol en: 30 dB #VBW 1.2 MHz Total Power % of OBW Pow</td> <td>d: 100/100 Mkr1 1 1 15.4 ver 99</td> <td>10:45:47 AM Sep 26, 2023 Radio Std: None Radio Device: BTS 5.245396 GHZ 0.083819 dBm Span 60 MHz Sweep 1.333 ms 4 dBm</td> <td>Frequency Center Freq 5.230000000 GHz 6.000000 MHz Auto Mar</td>	GHz Cen Trig #IFGain:Low #Att	SENSE:PULSE ter Freq: 5.23000000 GHz Free Run Avg Hol en: 30 dB #VBW 1.2 MHz Total Power % of OBW Pow	d: 100/100 Mkr1 1 1 15.4 ver 99	10:45:47 AM Sep 26, 2023 Radio Std: None Radio Device: BTS 5.245396 GHZ 0.083819 dBm Span 60 MHz Sweep 1.333 ms 4 dBm	Frequency Center Freq 5.230000000 GHz 6.000000 MHz Auto Mar
RL RF 50 Ω AC enter Freq 5.230000000 Ref Offset 4.33 dB Ref Offset 4.33 dB 0 dB/div Ref 24.33 dB Ref 24.33 dB 0 dB/d	GHz Cent Trig #IFGain:Low Trid Attributed Anna State Anna Anna Anna Anna Anna Anna Anna Ann	SENSE:PULSE er Freq: 5.23000000 GHz Free Run Avg Hol en: 30 dB #VBW 1.2 MHz Total Power	d: 100/100 Mkr1 1 1 15.4 ver 99	10:45:47 AM Sep 26, 2023 Radio Std: None Radio Device: BTS 5.245396 GHz 0.083819 dBm	Frequency Center Freq 5.230000000 GHz 6.000000 MHz Auto Mar
RL RF 50 D AC enter Freq 5.230000000 Ref Offset 4.33 dB Ref 24.33 dBm 0 dB/div Ref 24.33 dBm Ref 24.33 dBm 0 dB/div Ref 24.30 kHz Ref 24.30 kHz <td>GHz Cen Trig #IFGain:Low #Att</td> <td>SENSE:PULSE ter Freq: 5.23000000 GHz Free Run Avg Hol en: 30 dB #VBW 1.2 MHz Total Power % of OBW Pow</td> <td>d: 100/100 Mkr1 1 1 15.4 ver 99</td> <td>10:45:47 AM Sep 26, 2023 Radio Std: None Radio Device: BTS 5.245396 GHZ 0.083819 dBm Span 60 MHz Sweep 1.333 ms 4 dBm</td> <td>Frequency Center Frec 5.230000000 GH2 6.000000 MH2 Auto Mar Freq Offset</td>	GHz Cen Trig #IFGain:Low #Att	SENSE:PULSE ter Freq: 5.23000000 GHz Free Run Avg Hol en: 30 dB #VBW 1.2 MHz Total Power % of OBW Pow	d: 100/100 Mkr1 1 1 15.4 ver 99	10:45:47 AM Sep 26, 2023 Radio Std: None Radio Device: BTS 5.245396 GHZ 0.083819 dBm Span 60 MHz Sweep 1.333 ms 4 dBm	Frequency Center Frec 5.230000000 GH2 6.000000 MH2 Auto Mar Freq Offset



Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC		SENSE:PULSE		10:25:36 AM Sep 26, 2023	
Center Freq 5.180000000	GHz Cen	ter Freq: 5.180000000 GH:		Radio Std: None	Frequency
		:FreeRun Avg H en:30 dB	old: 100/100	Radio Device: BTS	
Ref Offset 4.33 dB	5		Mkr1	5.172506 GHz	
0 dB/div Ref 24.33 dBm				-0.79246 dBm	
4.3					Center Freq
1.33					5.18000000 GHz
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5.7 the character of the state				W. Marthalanta and a	
5.7					
5.7					
5.7					
5.7					
enter 5.18 GHz				Span 30 MHz	CF Step
Res BW 200 kHz		#VBW 620 kHz		Sweep 1.333 ms	3.000000 MHz
Occupied Bandwidth	า	Total Power	14.8	dBm	<u>Auto</u> Man
17	.734 MHz				Freq Offse
Transmit Freq Error	34.483 kHz	% of OBW Po	wer 00	.00 %	0 Hz
x dB Bandwidth	30.00 MHz	x dB		00 dB	
	50.00 WHZ	X UB	-20.		
G				8	
	OBW NV	/NT ac20 5200	MHz An	t1	
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC		SENSE:PULSE		10:27:39 AM Sep 26, 2023	
enter Freq 5.200000000	GHz Cen	ter Freq: 5.20000000 GH	Z	Radio Std: None	Frequency
		:FreeRun Avg Ho en:30 dB	old: 100/100	Radio Device: BTS	
Ref Offset 4.33 dB			Mkr1	5.196274 GHz	
0 dB/div Ref 24.33 dBm				-0.63860 dBm	
4.3					Center Fred
.33			A. A.		5.20000000 GHz
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5.7 mp. wind and a second seco				Span 30 MHz	CF Sten
5.7 mp. wind and a second seco		#VBW 620 kHz			3.000000 MHz
5.7		#VBW 620 kHz Total Power	14.8	Span 30 MHz	3.000000 MHz
5.7			14.8	Span 30 MHz Sweep 1.333 ms	3.000000 MHz <u>Auto</u> Man
67 67 67 67 67 enter 5.2 GHz Res BW 200 kHz Occupied Bandwidth 17	ո .864 MHz	Total Power		Span 30 MHz Sweep 1.333 ms	3.000000 MHz Auto Mar
57 mpowiew/adverse 57 control of the second	1 .8 64 MHz 41.062 kHz	Total Power % of OBW Po	wer 99	Span 30 MHz Sweep 1.333 ms dBm	3.000000 MHz Auto Mar
17	ո .864 MHz	Total Power	wer 99	Span 30 MHz Sweep 1.333 ms	3.000000 MHz
57 movement 57 mo	1 .8 64 MHz 41.062 kHz	Total Power % of OBW Po	wer 99	Span 30 MHz Sweep 1.333 ms dBm	3.000000 MHz Auto Mar
57 movement 57 mo	1 .8 64 MHz 41.062 kHz	Total Power % of OBW Po	wer 99	Span 30 MHz Sweep 1.333 ms dBm	3.000000 MHz Auto Mar







Keysight Spectrum Analyzer - Occupied BW R L RF 50 Ω AC		SENSE:PULSE		10:56:49 AM Sep 26, 2023	
enter Freq 5.230000000	GHz Cent Trig:	er Freq: 5.230000000 GHz	d: 100/100	Radio Device: BTS	Frequency
	an Gameon	en: 30 dB	Mkr1	5.235394 GHz	ī
Ref Offset 4.33 dE 0 dB/div Ref 24.33 dBm 0 g				-0.30833 dBm	
4.3					Center Freq
.33	al contractor and the state of the other	and antisation for an and	-		5.230000000 GHz
5.7		Y			
5.7 allaningradionalingradion				When the state of	
5.7					
5.7					
5.7					
enter 5.23 GHz				Span 60 MHz	
Res BW 430 kHz		#VBW 1.2 MHz		Sweep 1.333 ms	6.000000 MH: Auto Mar
Occupied Bandwidt		Total Power	15.4	dBm	
36	6.850 MHz				Freq Offse
Transmit Freq Error	333.53 kHz	% of OBW Pow	ver 99	.00 %	0 H:
x dB Bandwidth	59.92 MHz	x dB	-26.	00 dB	
G					
u			I o STATUS		_
3	OBW NV	NT ac80 5210N			
Keysight Spectrum Analyzer - Occupied BW	1			t1	
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC	GHz Cent	SENSE:PULSE	MHz An		
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC	GHz Cent →→ Trig:	SENSE:PULSE	MHz An d: 100/100	11:04:09 AM Sep 26, 2023 Radio Std: None Radio Device: BTS	Frequency
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC enter Freq 5.210000000 Ref Offset 4.33 dE	GHz Cent #FGain:Low #Atte	SENSE:PULSE er Freq: 5.210000000 GHz Free Run Avg Hold	MHz An d: 100/100	11:04:09 AMSep 26, 2023 Radio Std: None Radio Device: BTS 5.183096 GH2	Frequency
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC enter Freq 5.210000000 Ref Offset 4.33 dE Ref Offset 4.33 dE Ref 24.33 dEm 9 Page Page	GHz Cent #FGain:Low #Atte	SENSE:PULSE er Freq: 5.210000000 GHz Free Run Avg Hold	MHz An d: 100/100	11:04:09 AM Sep 26, 2023 Radio Std: None Radio Device: BTS	Frequency
Keysight Spectrum Analyzer - Occupied BW RL RF 50.0 AC enter Freq 5.2100000000 Ref Offset 4.33 dE GB/div Ref Offset 4.33 dE GB/div Ref 24.33 dE 9 4.3 Colspan="2">Colspan="2"	GHz Cent #FGain:Low #Atte	SENSE:PULSE er Freq: 5.210000000 GHz Free Run Avg Hold	MHz An d: 100/100	11:04:09 AMSep 26, 2023 Radio Std: None Radio Device: BTS 5.183096 GH2	Frequency Center Freq
Keysight Spectrum Analyzer - Occupied BW RL RF 50.0 AC enter Freq 5.2100000000 Ref Offset 4.33 dE dB/dIv Ref Offset 4.33 dE dB/dIv Ref 24.33 dE 9 4.3 4.3 dB/dIv 67 0.00000000000000000000000000000000000	GHz Cent #FGain:Low #Atte	SENSE:PULSE er Freq: 5.210000000 GHz Free Run Avg Hold	MHz An d: 100/100	11:04:09 AMSep 26, 2023 Radio Std: None Radio Device: BTS 5.183096 GH2	Frequency Center Freq
Keysight Spectrum Analyzer - Occupied BW RL RF 50.0 AC enter Freq 5.2100000000 Ref Offset 4.33 dE dB/dlv Ref 24.33 dEm 9 43 44 44 44 44	GHz Cent #FGain:Low #Atte	SENSE:PULSE er Freq: 5.210000000 GHz Free Run Avg Hold	MHz An d: 100/100	11:04:09 AMSep 26, 2023 Radio Std: None Radio Device: BTS 5.183096 GH2	Frequency Center Freq
Keysight Spectrum Analyzer - Occupied BW RL RF 50.9 AC enter Freq 5.210000000 Ref Offset 4.33 dE Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2">Colspan="2"Colspan="2">Colspan="2"Colspan="2"Colspan="2">Colspan="2"Colspan="2"Colspan="2">Colspan="2"Col	GHz Cent #FGain:Low #Atte	SENSE:PULSE er Freq: 5.210000000 GHz Free Run Avg Hold	MHz An d: 100/100	t1 11:04:09 AM Sep 26, 2022 Radio Std: None Radio Device: BTS 5.183096 GH2 -1.1672 dBm	Frequency Center Freq
Keysight Spectrum Analyzer - Occupied BW RL RF 50.0 AC enter Freq 5.210000000 Ref Offset 4.33 dE Colspan="2">dB/div Ref Offset 4.33 dE Colspan="2">dB/div Ref 24.33 dEm Colspan="2">dB/div Sector Spectrum Colspan="2">AC Sector Spectrum Colspan="2">Colspan="2"Colspan=	GHz Cent #FGain:Low #Atte	SENSE:PULSE er Freq: 5.210000000 GHz Free Run Avg Hold	MHz An d: 100/100	t1 11:04:09 AM Sep 26, 2022 Radio Std: None Radio Device: BTS 5.183096 GH2 -1.1672 dBm	Frequency Center Freq
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC enter Freq 5.210000000 Ref Offset 4.33 dE AC Ref Offset 4.33 dE Ref 24.33 dE Ref 24.33 dE OdB/div Ref 24.33 dE Ref 24.33 dE Og A3 Ref 24.33 dE Ref 24.33 dE Og Ref 24.33 dE Ref 24.33 dE Ref 24.33 dE Og Ref 24.33 dE Ref 24.33 dE Ref 24.33 dE Og Ref 24.33 dE Ref 24.33 dE Ref 24.33 dE Og Ref 24.33 dE Ref 24.33 dE Ref 24.33 dE Og Ref 24.33 dE Ref 24.33 dE Ref 24.33 dE Og Ref 24.33 dE Ref 24.33 dE Ref 24.33 dE Og Ref 24.33 dE Ref 24.34 dE Ref 24.34 dE Ref 24.34 dE Ref 24.34 dE Ref 24.34 dE Ref 24.34 dE Ref 24.35 dE Ref 24.34 dE Ref 24.34 dE Ref 24.34 dE Ref 24.34 dE Ref 24.34 dE Ref 24.34 dE Ref 24.34 dE Ref 24.34 dE Ref 24.34 dE <t< td=""><td>GHz Cent #FGain:Low #Atte</td><td>SENSE:PULSE er Freq: 5.210000000 GHz Free Run Avg Hold</td><td>MHz An d: 100/100</td><td>t1 11:04:09 AM Sep 26, 2022 Radio Std: None Radio Device: BTS 5.183096 GH2 -1.1672 dBm</td><td>Frequency Center Freq</td></t<>	GHz Cent #FGain:Low #Atte	SENSE:PULSE er Freq: 5.210000000 GHz Free Run Avg Hold	MHz An d: 100/100	t1 11:04:09 AM Sep 26, 2022 Radio Std: None Radio Device: BTS 5.183096 GH2 -1.1672 dBm	Frequency Center Freq
Keysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC enter Freq 5.2100000000 Ref Offset 4.33 dB AB AB 0 dB/div Ref 24.33 dBm Bm Bm 0 dB/div Ref 24.33 dBm Ref 24.33 dBm Bm 0 dB/div Ref 24.33 dBm Ref 24.33 dBm Ref 24.33 dBm 0 dB/div Ref 24.33 dBm Ref 24.33 dBm Ref 24.33 dBm <tr< td=""><td>GHz Cent #FGain:Low #Atte</td><td>SENSE:PULSE er Freq: 5.210000000 GHz Free Run Avg Hold</td><td>MHz An d: 100/100</td><td>t1 11:04:09 AM Sep 26, 2022 Radio Std: None Radio Device: BTS 5.183096 GH2 -1.1672 dBm</td><td>Center Freq 5.210000000 GH2</td></tr<>	GHz Cent #FGain:Low #Atte	SENSE:PULSE er Freq: 5.210000000 GHz Free Run Avg Hold	MHz An d: 100/100	t1 11:04:09 AM Sep 26, 2022 Radio Std: None Radio Device: BTS 5.183096 GH2 -1.1672 dBm	Center Freq 5.210000000 GH2
Keysight Spectrum Analyzer - Occupied BW RL RF 50.0 AC enter Freq 5.2100000000 Ref Offset 4.33 dB Ref 24.33 dBm Odd Ref 24.33 dBm Ref 24.33 dBm Ref 24.33 dBm Ref 24.33 dBm Ref 24.33 dBm Ref 24.33 dBm Ref 24.33 dBm Ref 24.33 dBm Ref 24.33 dBm Ref 24.33 dBm Ref 24.33 dBm Ref 24.33 dBm	GHz Cent #IFGain:Low #Atte	SENSE:PULSE	MHz An d: 100/100	t1 11:04:09 AM Sep 26, 2023 Radio Std: None Radio Device: BTS 5.183096 GH2 -1.1672 dBm the Manual Andreas Span 120 MH2	Center Frequency
Keysight Spectrum Analyzer - Occupied BW RL RF 50.0 AC enter Freq 5.210000000 Ref 0ffset 4.33 dE Ref 24.33 dE 0 B/dlv Ref 24.33 dE	GHz Cent #IFGain:Low #Atte	SENSE-PULSE	MHz An d: 100/100 Mkr1	t1 11:04:09 AM Sep 26, 2022 Radio Std: None Radio Device: BTS 5.183096 GH2 -1.1672 dBm 4.1672 dBm 4.1672 dBm 5.183096 GH2 -1.1672 dBm 5.183096 GH2	Center Frequency
Keysight Spectrum Analyzer - Occupied BW RL RF 50.0 AC enter Freq 5.210000000 Ref Offset 4.33 dB Ref 24.33 dBm OB/div Ref 24.33 dBm Ref 24.33 dBm Og Mark and a strain and	GHz Cent #IFGain:Low #Atte	SENSE:PULSE	MHz An d: 100/100 Mkr1	t1 11:04:09 AM Sep 26, 2023 Radio Std: None Radio Device: BTS 5.183096 GH2 -1.1672 dBm the Manual Andreas Span 120 MH2	Center Frequency
Rejsight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC enter Freq 5.2100000000 Ref Offset 4.33 dE OdB/div Ref 24.33 dEm A3 A A A3 A A A3 A A A3 A A A4 A A A3 A A A4 A A A3 A A A4 A A A A4 A A A A A A4 A A A A A A5 A A A A A A4 A A A A A A4 A A A A	GHz Cent #FGain:Low #Atte	SENSE-PULSE er Freq: 5.21000000 GHz Free Run Avg Hok m: 30 dB #VBW 2.4 MHz Total Power	MHz An d: 100/100 Mkr1	t1 11:04:09 AM Sep 26, 2022 Radio Std: None Radio Device: BTS 5.183096 GH2 -1.1672 dBm 4.1672 dBm 4.1672 dBm 5.183096 GH2 -1.1672 dBm 5.183096 GH2	Frequency Center Freq 5.210000000 GH: 5.21000000 GH: 12.00000 MH: Auto Mar Freq Offse
Reysight Spectrum Analyzer - Occupied BW RL RF 500 AC enter Freq 5.2100000000 Ref Offset 4.33 dBm 9 9 9 9 9 9 9 9 9 9 9 9 9	GHz #IFGain:Low Cent Trig: #Atte A A Cent Cent Trig: A A A A A A A A A A A A A	SENSE-PULSE Freq: 5.21000000 GHz Free Run Avg Hold m: 30 dB #VBW 2.4 MHz Total Power % of OBW Pow	MHz An d: 100/100 Mkr1 15.6 rer 99	t1 11:04:09 AM Sep 26, 2022 Radio Std: None Radio Device: BTS 5.183096 GH2 -1.1672 dBm Span 120 MH2 Sweep 1.333 ms 5 dBm .00 %	Center Frequency
Reysight Spectrum Analyzer - Occupied BW RL RF 50 Ω AC enter Freq 5.2100000000 Ref Offset 4.33 dE Ref Offset 4.33 dE 0 dB/div Ref 24.33 dBm Ref 24.33 dE 0 dB/div Ref 24.33 dE Ref 24.33 dE 0 dB/div	GHz Cent #FGain:Low #Atte	SENSE-PULSE er Freq: 5.21000000 GHz Free Run Avg Hok m: 30 dB #VBW 2.4 MHz Total Power	MHz An d: 100/100 Mkr1 15.6 rer 99	t1 11:04:09 AM Sep 26, 2022 Radio Std: None Radio Device: BTS 5.183096 GH2 -1.1672 dBm Span 120 MH2 Sweep 1.333 ms dBm	Frequency Center Freq 5.21000000 GH2 CF Step 12.00000 MH2 Auto Mar Freq Offset
Reysight Spectrum Analyzer - Occupied BW RL RF 500 AC enter Freq 5.2100000000 Ref Offset 4.33 dBm 9 9 9 9 9 9 9 9 9 9 9 9 9	GHz #IFGain:Low Cent Trig: #Atte A A Cent Cent Trig: A A A A A A A A A A A A A	SENSE-PULSE Freq: 5.21000000 GHz Free Run Avg Hold m: 30 dB #VBW 2.4 MHz Total Power % of OBW Pow	MHz An d: 100/100 Mkr1 15.6 rer 99	t1 11:04:09 AM Sep 26, 2022 Radio Std: None Radio Device: BTS 5.183096 GH2 -1.1672 dBm Span 120 MH2 Sweep 1.333 ms 5 dBm .00 %	Frequency Center Freq 5.210000000 GH: 5.21000000 GH: 12.00000 MH: Auto Mar Freq Offse



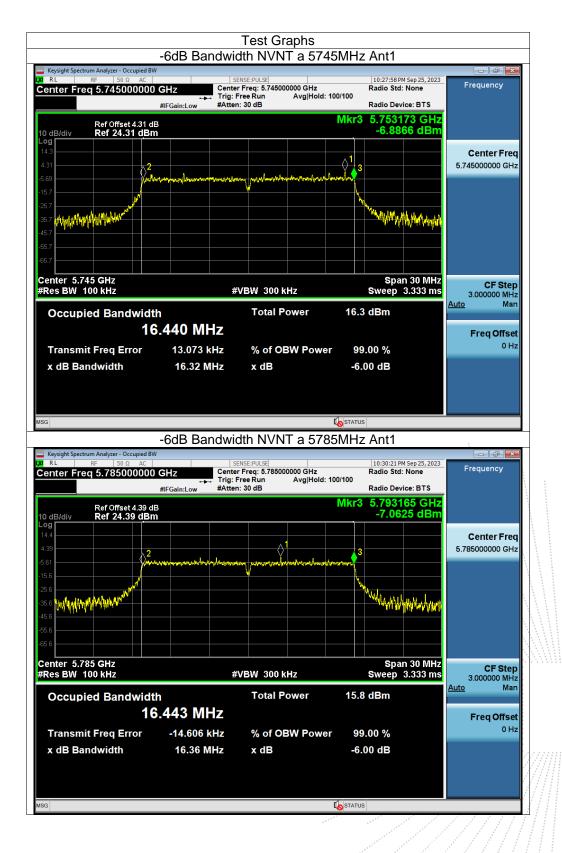
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.8V
Test Mode:	(5745-5825MHz)		

Condition	Mode	Frequency (MHz)	-6 dB Bandwidth (MHz)	Limit -6 dB Bandwidth (MHz)	Verdict
NVNT	а	5745	16.319	0.5	Pass
NVNT	а	5785	16.359	0.5	Pass
NVNT	а	5825	16.399	0.5	Pass
NVNT	n20	5745	16.689	0.5	Pass
NVNT	n20	5785	16.996	0.5	Pass
NVNT	n20	5825	17.277	0.5	Pass
NVNT	n40	5755	36.065	0.5	Pass
NVNT	n40	5795	35.901	0.5	Pass
NVNT	ac20	5745	17.051	0.5	Pass
NVNT	ac20	5785	17.282	0.5	Pass
NVNT	ac20	5825	17.554	0.5	Pass
NVNT	ac40	5755	36.07	0.5	Pass
NVNT	ac40	5795	35.925	0.5	Pass
NVNT	ac80	5775	75.507	0.5	Pass

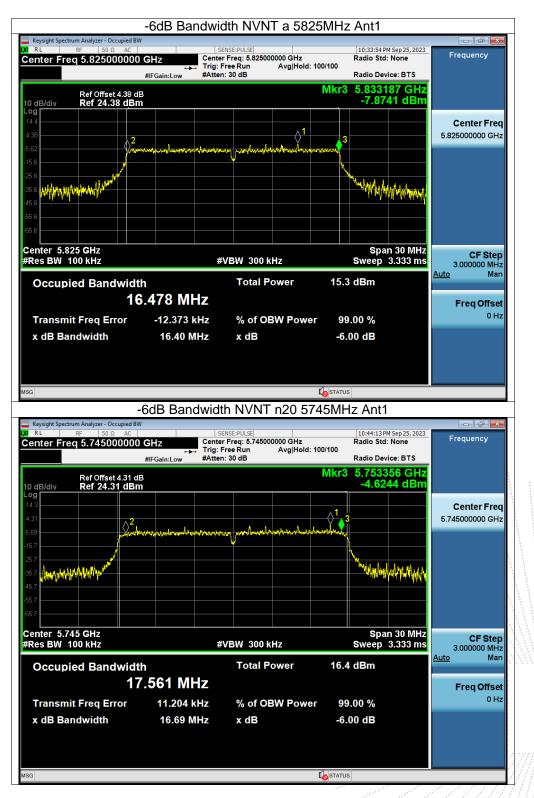
Condition	Mode	Frequency (MHz)	99% OBW (MHz)
NVNT	а	5745	16.57
NVNT	а	5785	16.588
NVNT	а	5825	16.569
NVNT	n20	5745	17.593
NVNT	n20	5785	17.613
NVNT	n20	5825	17.59
NVNT	n40	5755	36.237
NVNT	n40	5795	36.307
NVNT	ac20	5745	17.595
NVNT	ac20	5785	17.59
NVNT	ac20	5825	17.597
NVNT	ac40	5755	36.247
NVNT	ac40	5795	36.319
NVNT	ac80	5775	75.566

Edition: B.0

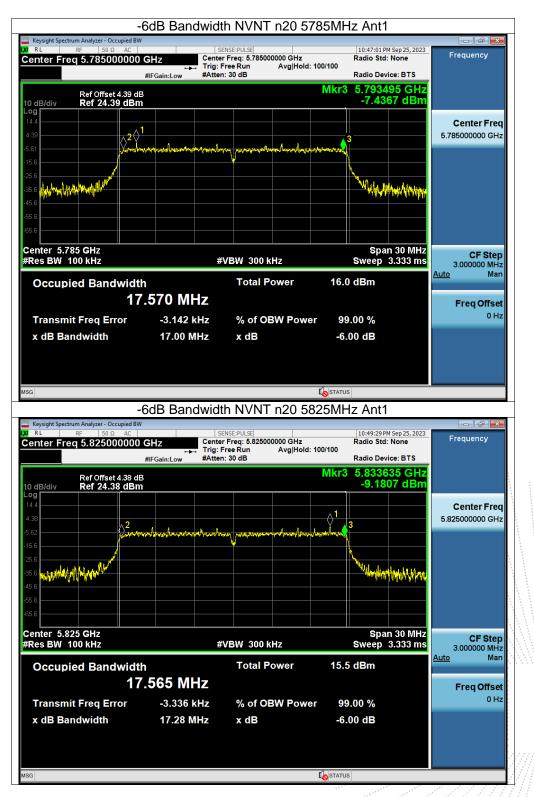




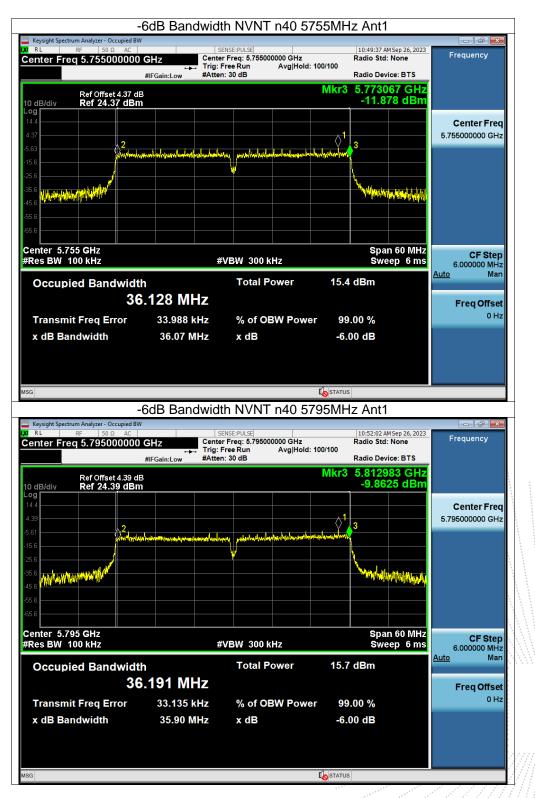




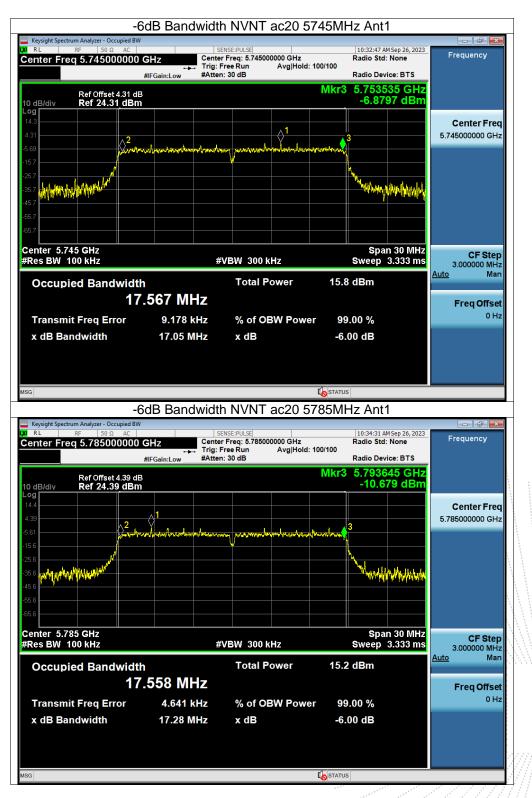




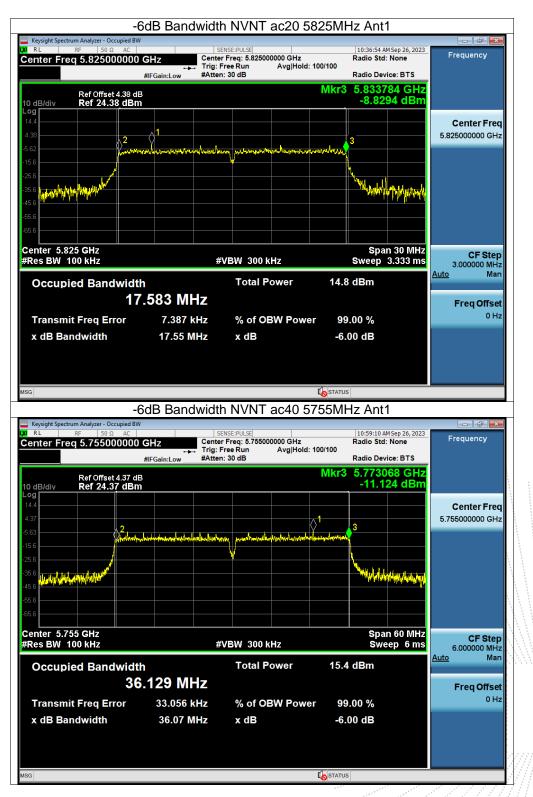




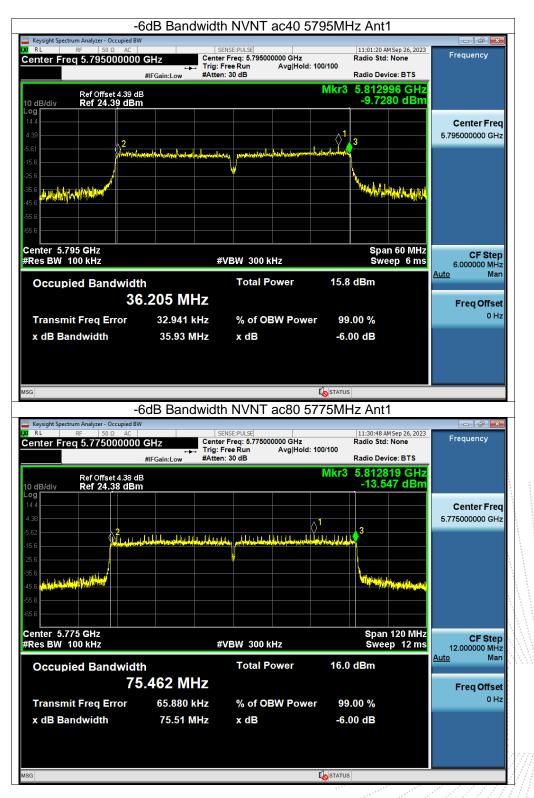












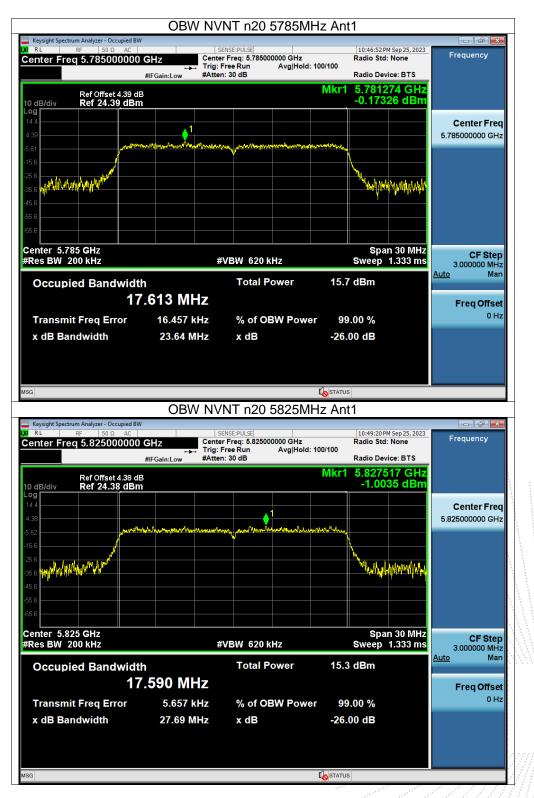


RL RF 50 Ω AC enter Freq 5.745000000	GHz Cente	er Freq: 5.745000000 GHz Freq: 5.745000000 GHz Free Run Avg Hold n: 30 dB	Ra 1: 100/100	0:27:49 PM Sep 25, 2023 adio Std: None adio Device: BTS	Frequency
Ref Offset 4.31 dE 0 dB/div Ref 24.31 dBm	3			.752542 GHz).18459 dBm	-
4.3					Center Fred
um	and a second state of the second state	me werther the particular	nutrianarian		5.745000000 GHz
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5.7			- Way	natha datablen halten.	
5.7 				de de la	
5.7					
5.7					
enter 5.745 GHz Res BW 200 kHz	#	¢VBW 620 kHz	SI	Span 30 MHz weep 1.333 ms	
Occupied Bandwidt	h	Total Power	16.0 dl	Bm	<u>Auto</u> Mar
	.570 MHz				Freq Offse
Transmit Freq Error	27.470 kHz	% of OBW Pow	er 99.00) %	0 H;
x dB Bandwidth	24.55 MHz	x dB	-26.00	dB	
G			STATUS		
Karish Gastan A. J. O. S. Stra		VNT a 5785MH			
		ENSE:PULSE	Hz Ant1	0:30:12 PM Sep 25, 2023	Frequency
RL RF 50 Ω AC	GHz Cente →→ Trig:		Hz Ant1	0:30:12 PM Sep 25, 2023 Idio Std: None Idio Device: BTS	
RL RF 50 Ω AC enter Freq 5.785000000 Ref Offset 4.39 dE	GHz #FGain:Low	SENSE:PULSE Fr Freq: 5.785000000 GHz Free Run Avg Hold	Hz Ant1	adio Std: None adio Device: BTS . 792515 GHz	
RL RF 50 Ω AC enter Freq 5.785000000 Ref Offset 4.39 dE Ref Offset 4.39 dE 0 dB/div Ref 24.39 dE Ref 24.39 dE	GHz #FGain:Low	SENSE:PULSE Fr Freq: 5.785000000 GHz Free Run Avg Hold	Hz Ant1	dio Std: None dio Device: BTS	
RL RF 50 Ω AC enter Freq 5.785000000 Ref 0ffset 4.39 dE Ref 0ffset 4.39 dE 0 dB/div Ref 24.39 dBm Ref 24.39 dBm	GHz #FGain:Low	SENSE:PULSE Fr Freq: 5.785000000 GHz Free Run Avg Hold	Hz Ant1	adio Std: None adio Device: BTS . 792515 GHz	Frequency Center Freq
RL RF 50 Ω AC enter Freq 5.785000000 Ref Offset 4.39 dE Ref Offset 4.39 dE 0 dB/div Ref 24.39 dBm 9g 4.4 4.4 39	GHz #FGain:Low	SENSE:PULSE Fr Freq: 5.785000000 GHz Free Run Avg Hold	Hz Ant1	adio Std: None adio Device: BTS . 792515 GHz	Frequency Center Freq
RL RF 50 Ω AC enter Freq 5.785000000 Ref Offset 4.39 dE Ref Offset 4.39 dE D dB/div Ref 24.39 dBm Ref 24.39 dBm 99	GHz #FGain:Low	SENSE:PULSE Fr Freq: 5.785000000 GHz Free Run Avg Hold	Hz Ant1	adio Std: None adio Device: BTS . 792515 GHz	Frequency Center Freq
RL RF 50 Ω AC enter Freq 5.785000000 Ref Offset 4.39 dE D D dB/div Ref 24.39 dBm Ref 24.39 dBm 99	GHz #FGain:Low	SENSE:PULSE Fr Freq: 5.785000000 GHz Free Run Avg Hold	Hz Ant1	adio Std: None adio Device: BTS . 792515 GHz	Frequency Center Freq
RL RF 50 Ω AC enter Freq 5.785000000 Ref Offset 4.39 dE Ref Offset 4.39 dE D dB/div Ref 24.39 dBm Ref 24.39 dBm 99	GHz #IFGain:Low	SENSE:PULSE Fr Freq: 5.785000000 GHz Free Run Avg Hold	Hz Ant1	adio Std: None adio Device: BTS . 792515 GHz	Frequency Center Freq
RL RF 50.0 AC enter Freq 5.785000000 Ref Offset 4.39 dE Ref Offset 4.39 dE 0 dB/div Ref 24.39 dBm Ref 24.39 dBm 4.4	GHz #IFGain:Low	SENSE:PULSE Freq: 5.785000000 GHz Free Run Avg Hold	Hz Ant1	adio Std: None adio Device: BTS . 792515 GHz	Frequency Center Freq
RL RF 50 Q AC enter Freq 5.785000000 Ref Offset 4.39 dE Ref 24.39 dBm 99 4.4 39 61 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	GHz #IFGain:Low	SENSE:PULSE Freq: 5.785000000 GHz Free Run Avg Hold	Hz Ant1	Idio Std: None	Frequency Center Free 5.785000000 GH
RL RF 50 Q AC enter Freq 5.785000000 Ref Offset 4.39 dE Ref Offset 4.39 dE Q dB/div Ref 24.39 dBm Ref 24.39 dBm	GHz Cent #IFGain:Low #Atte	SENSE:PULSE Freq: 5.785000000 GHz Free Run Avg Hold	Hz Ant1	adio Std: None adio Device: BTS . 792515 GHz	Center Frequency 6.785000000 GH CF Step 3.00000 MH
RL RF 50 Ω AC enter Freq 5.785000000 Ref Offset 4.39 dE Ref Offset 4.39 dE D dB/div Ref 24.39 dBm Ref 24.39 dBm 0 dB/div Ref 24.39 dBm Ref 24.39 dBm	GHz Center #IFGain:Low #Atte	ense:pulse er Freq Run Avg Hold n: 30 dB	Hz Ant1	dio Std: None dio Device: BTS .792515 GHz .29101 dBm	Center Frequency 6.785000000 GH CF Step 3.00000 MH
RL RF 50 0. AC enter Freq 5.785000000 Ref Offset 4.39 dE 0 dB/div Ref 24.39 dBm 99	GHz Center #IFGain:Low #Atte	ENSE:PULSE	Hz Ant1	dio Std: None dio Device: BTS .792515 GHz .29101 dBm	Center Frequency 5.785000000 GH: 5.000000 MH; <u>Auto</u> Mar
RL RF 50 0. AC enter Freq 5.785000000 Ref Offset 4.39 dE 0 dB/div Ref 24.39 dBm 99	GHz Centre #IFGain:Low #Atte	ENSE:PULSE	Hz Ant1	Idio Std: None Idio Device: BTS 792515 GHz 0.29101 dBm 944 944 944 944 944 944 944 944 944 94	Frequency Center Free 5.785000000 GH: 5.785000000 GH: 3.00000 MH; Auto Mar Freq Offse
RL RF 50 Q AC enter Freq 5.785000000 Ref Offset 4.39 dE dB/div Ref 24.39 dBm og 4.4 39 61 66 66 66 66 66 66 66 66 66 66 66 66	GHz Centre #IFGain:Low #Atte	ENSE:PULSE Pr Freq: 5.78500000 GHz Free Run Avg Hold n: 30 dB Avg Hold Avg Hold	Hz Ant1	dio Std: None dio Device: BTS 792515 GHz 2.29101 dBm Span 30 MHz weep 1.333 ms Bm	Center Frequency 6.785000000 GH2 CF Step 3.00000 MH2
RL RF 50 0. AC enter Freq 5.785000000 Ref Offset 4.39 dB 0 dB/div Ref 24.39 dBm 0 g 4.4 39 4.4 4.4 4.4 61 4.4 56 4.4 61 4.4 62 4.4 63 4.4 64 4.4 65 4.4 66 4.4 67 4.4 68 4.4 69 4.4 60 4.4 61 4.4 62 4.4 63 4.4 64 4.4 65 4.4 66 4.4 67 4.4 68 4.4 64 4.4 65 5.785 GHz 7 7.785 GHz 7 7.785 GHz 8 7.785 GHz 9 4.5 9 <td>GHz #IFGain:Low Characteristics GHz Trig: Attern Characteristics Ch</td> <td>ENSE:PULSE Pr Freq: 5.78500000 GHz Free Run Avg Hold n: 30 dB EVBW 620 kHz Total Power % of OBW Power</td> <td>Hz Ant1</td> <td>dio Std: None dio Device: BTS 792515 GHz 2.29101 dBm Span 30 MHz weep 1.333 ms Bm</td> <td>Frequency Center Free 5.785000000 GH 5.785000000 GH 3.000000 MH Auto Mar Freq Offse</td>	GHz #IFGain:Low Characteristics GHz Trig: Attern Characteristics Ch	ENSE:PULSE Pr Freq: 5.78500000 GHz Free Run Avg Hold n: 30 dB EVBW 620 kHz Total Power % of OBW Power	Hz Ant1	dio Std: None dio Device: BTS 792515 GHz 2.29101 dBm Span 30 MHz weep 1.333 ms Bm	Frequency Center Free 5.785000000 GH 5.785000000 GH 3.000000 MH Auto Mar Freq Offse

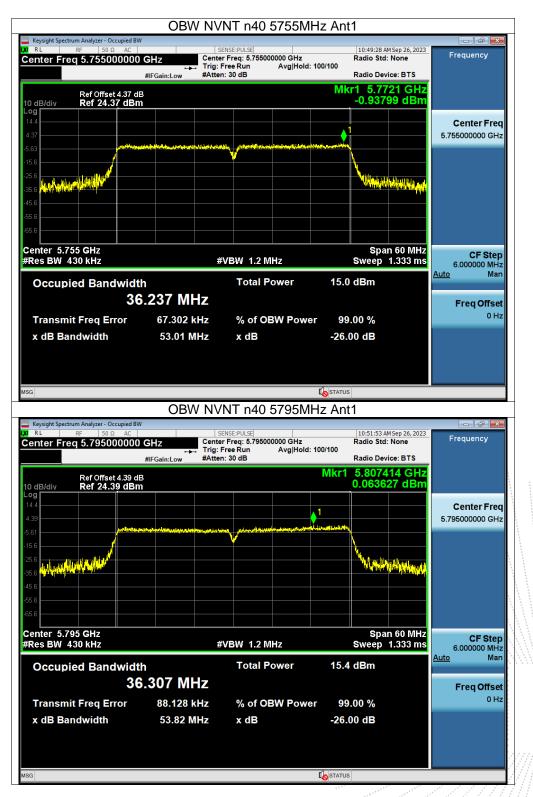


Keysight Spectrum Analyzer - Occupied BW		VNT a 5825M		
RL RF 50 Ω AC		ENSE:PULSE	10:33:45 PM Sep 25	, 2023
enter Freq 5.82500000	Trig:		Radio Std: None d: 100/100	
		n: 30 dB	Radio Device: B	
Ref Offset 4.38 dB			Mkr1 5.817509 0 -0.68691 d	
) dB/div Ref 24.38 dBm			-0.00091 u	ыш
4.4				Center Free
.38		a se a De sec ella la de Daes de ella	4. (1). (1).	5.825000000 GH
5.6	ana ang ang ang ang ang ang ang ang ang	V		
5.6			1 N	
				Arch.
5.6				
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5.6				
enter 5.825 GHz			Span 30	MHz
Res BW 200 kHz	#	¢VBW 620 kHz	Sweep 1.33	
Occupied Bandwidth	1 <u> </u>	Total Power	15.0 dBm	Auto Mai
	.569 MHz			
				Freq Offse 0 H
Transmit Freq Error	14.152 kHz	% of OBW Pow		
x dB Bandwidth	22.15 MHz	x dB	-26.00 dB	
3			STATUS	
		′NT n20 5745N		
		NT n20 5745N	IHz Ant1	2023
RL RF 50 Ω AC	GHz Cente	ENSE:PULSE	1Hz Ant1 10:44:03 PM Sep 25 Radio Std: None	, 2023
RL RF 50 Ω AC	GHz Cente →→ Trig:	ENSE:PULSE	1Hz Ant1 10:44:03 PM Sep 25	Frequency
RL RF 50 Ω AC	GHz #IFGain:Low	ENSE:PULSE er Freq: 5.745000000 GHz Free Run Avg Holo	10:44:03 PM Sep 22 Radio Std: None Radio Device: B Mkr1 5.748759 (Frequency
RL RF 50 Ω AC enter Freq 5.745000000 Ref Offset 4.31 dB Ref Offset 4.31 dB dB/div Ref 24.31 dBm	GHz Cente #IFGain:Low #Atte	ENSE:PULSE er Freq: 5.745000000 GHz Free Run Avg Holo	110:44:03 PM Sep 25 Radio Std: None Radio Device: B	Frequency
RL RF 50 Ω AC enter Freq 5.745000000 Ref Offset 4.31 dB dB/div Ref 24.31 dB Ref 24.31 dB	GHz Cente #IFGain:Low #Atte	ENSE:PULSE er Freq: 5.745000000 GHz Free Run Avg Holo	10:44:03 PM Sep 22 Radio Std: None Radio Device: B Mkr1 5.748759 (Frequency rs Bm
RL RF 50 Ω AC enter Freq 5.745000000 Ref Offset 4.31 dB Ref Offset 4.31 dB dB/div Ref 24.31 dBm	GHz Cente #IFGain:Low #Atte	ENSE:PULSE er Freq: 5.745000000 GHz Free Run Avg Holo	10:44:03 PM Sep 22 Radio Std: None Radio Device: B Mkr1 5.748759 (Frequency rs BM Center Freq
RL RF 50 Ω AC enter Freq 5.745000000 Ref Offset 4.31 dB dB/div Ref 24.31 dBm 29 31 31 60	GHz Cente #IFGain:Low #Atte	ENSE:PULSE er Freq: 5.745000000 GHz Free Run Avg Holo	10:44:03 PM Sep 22 Radio Std: None Radio Device: B Mkr1 5.748759 (Frequency rs Bm Center Freq
RL RF 50 Ω AC enter Freq 5.745000000 Ref Offset 4.31 dB B dB/div Ref 24.31 dBm B 33	GHz Cente #IFGain:Low #Atte	ENSE:PULSE er Freq: 5.745000000 GHz Free Run Avg Holo	10:44:03 PM Sep 22 Radio Std: None Radio Device: B Mkr1 5.748759 (Frequency rs Bm Center Freq
RL RF 50 Ω AC enter Freq 5.745000000 Ref Offset 4.31 dB Ref Offset 4.31 dB dB/div Ref 24.31 dBm Ref 24.31 dBm 33	GHz Cente #IFGain:Low #Atte	ENSE:PULSE er Freq: 5.745000000 GHz Free Run Avg Holo	10:44:03 PM Sep 22 Radio Std: None Radio Device: B Mkr1 5.748759 (Frequency rs Bm Center Freq
RL RF 50 Ω AC enter Freq 5.745000000 Ref Offset 4.31 dB Ref 24.31 dBm dB/div Ref 24.31 dBm Ref 24.31 dBm 33	GHz Cente #IFGain:Low #Atte	ENSE:PULSE er Freq: 5.745000000 GHz Free Run Avg Holo	10:44:03 PM Sep 22 Radio Std: None Radio Device: B Mkr1 5.748759 (
RL RF 50 Ω AC enter Freq 5.745000000 Ref Offset 4.31 dB Ref 24.31 dBm dB/div Ref 24.31 dBm Ref 24.31 dBm 33	GHz Cente #IFGain:Low #Atte	ENSE:PULSE er Freq: 5.745000000 GHz Free Run Avg Holo	10:44:03 PM Sep 22 Radio Std: None Radio Device: B Mkr1 5.748759 (Frequency rs Bm Center Freq
RL R5 50 Ω AC enter Freq 5.745000000 Ref Offset 4.31 dB Ref 24.31 dBm 0 dB/div Ref 24.31 dBm Ref 24.31 dBm 13	GHz Cente #IFGain:Low #Atte	ENSE:PULSE er Freq: 5.745000000 GHz Free Run Avg Holo	10:44:03 PM Sep 22 Radio Std: None Radio Device: B Mkr1 5.748759 (Frequency rs Bm Center Freq
RL RF 50 Ω AC enter Freq 5.745000000 Ref Offset 4.31 dB Ref 24.31 dBm dB/div Ref 24.31 dBm Ref 24.31 dBm 33	GHz Cente #IFGain:Low #Atte	ENSE:PULSE er Freq: 5.745000000 GHz Free Run Avg Holo	AHz Ant1 10:44:03 PM Sep 25 Radio Std: None Radio Device: B' Mkr1 5.748759 C 0.40982 d	Frequency rs SHZ Bm Center Freq 5.745000000 GH
RL RF 50 Ω AC enter Freq 5.745000000 Ref Offset 4.31 dB Ref 24.31 dBm 0 dB/div Ref 24.31 dBm Ref 24.31 dBm 31	GHz Cente #/FGain:Low #Atte	ENSE:PULSE er Freq: 5.745000000 GHz Free Run Avg Holo	10:44:03 PM Sep 22 Radio Std: None Radio Device: B Mkr1 5.748759 (Frequency Frequency Center Frequency 5.745000000 GH
RL RF 50 Ω AC enter Freq 5.745000000 Ref Offset 4.31 dB Ref 24.31 dBm 9 9 9 9 31 9 9 9 9 32 9 9 9 9 33 9 9 9 9 33 9 9 9 9 34 9 9 9 9 35 7 9 9 9 36 7 9 9 9 9 37 7 9 9 9 9 9 37 7 9	GHz ← Centra #IFGein:Low #Atte	ENSE:PULSE Tr Freq: 5.745000000 GHz Free Run Avg Hold n: 30 dB	AHz Ant1 10:44:03 PM Sep 25 Radio Std: None Radio Device: B' Mkr1 5.748759 (0.40982 d	Frequency rs BM Center Freq 5.745000000 GH
RL RF 50 Ω AC enter Freq 5.745000000 Ref Offset 4.31 dB Ref 24.31 dBm 0 dB/div Ref 24.31 dBm Ref 24.31 dBm 31 0 0 0 32 0 0 0 33 0 0 0 34 0 0 0 35 0 0 0 36 0 0 0 37 0 0 0 38 0 0 0 39 0 0 0 39 0 0 0 39 0 0 0 30 0 0 0 30 0 0 0 31 0 0 0 0 31 0 0 0 0 31 0 0 0 0	GHz ← Centra #IFGein:Low #Atte	ENSE:PULSE rr Freq Run Avg Hold n: 30 dB	AHz Ant1 10:44:03 PM Sep 25 Radio Std: None Radio Device: B' Mkr1 5.748759 (0.40982 d	,2023 Frequency rs Frequency Bm Center Frequency 5.745000000 GH MHz Sms 3.000000 MH
RL RF 50 Ω AC enter Freq 5.745000000 Ref Offset 4.31 dB Ref 24.31 dBm 0 B/div Ref 24.31 dBm 31 0	GHz ← Centra #IFGein:Low #Atte	ENSE:PULSE Tr Freq: 5.745000000 GHz Free Run Avg Hold n: 30 dB	AHz Ant1 10:44:03 PM Sep 25 Radio Std: None Radio Device: B' Mkr1 5.748759 (0.40982 d	,2023 Frequency rs Frequency SHZ Center Frequency 5.745000000 GH MHz Sms CF Step 3.000000 MH Auto
RL RF 50 Ω AC enter Freq 5.745000000 Ref Offset 4.31 dB Ref 24.31 dBm 0 dB/div Ref 24.31 dBm Ref 24.31 dBm 31 0 0 0 32 0 0 0 33 0 0 0 34 0 0 0 35 0 0 0 36 0 0 0 37 0 0 0 38 0 0 0 39 0 0 0 39 0 0 0 39 0 0 0 30 0 0 0 30 0 0 0 31 0 0 0 0 31 0 0 0 0 31 0 0 0 0	GHz ← Centra #IFGein:Low #Atte	ENSE:PULSE Tr Freq: 5.745000000 GHz Free Run Avg Hold n: 30 dB	AHz Ant1 10:44:03 PM Sep 25 Radio Std: None Radio Device: B' Mkr1 5.748759 C 0.40982 d Span 30 Sweep 1.33 16.1 dBm	,2023 Frequency rs Frequency SHZ Center Frequency 5.745000000 GH MHz Sms 3.000000 MH Auto Freq Offset
RL RF 50 Ω AC enter Freq 5.745000000 Ref Offset 4.31 dB Ref 24.31 dBm 33 Ref 24.31 dBm Ref 24.31 dBm 33	GHz Centre #FGein:Low HAtte	ENSEPULSE Pr Freq: 5.74500000 GHz Free Run Avg Hol n: 30 dB	AHz Ant1 10:44:03 PM Sep 25 Radio Std: None Radio Device: B' Mkr1 5.748759 (0.40982 d Span 30 Sweep 1.333 16.1 dBm ver 99.00 %	,2023 Frequency rs Frequency Bm Center Frequency 5.745000000 GH MHz Sms 3.000000 MH
Ref Offset 4.31 dB Ref Offset 4.31 dB Ref 24.31 dB P 9 4 3 3 4 3 4 3 5 7 5 7 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7	GHz Center #IFGain:Low #Atte	ENSERULSE Tr Freq: 5.745000000 GHz Free Run Avg Hol 1 1 1 1 1 1 1 1 1 1 1 1 1	AHz Ant1 10:44:03 PM Sep 25 Radio Std: None Radio Device: B' Mkr1 5.748759 C 0.40982 d Span 30 Sweep 1.33 16.1 dBm	,2023 Frequency rs Frequency SHZ Center Frequency 5.745000000 GH MHz Sms 3.000000 MH Auto Freq Offset
Rt S0 Ω AC enter Freq 5.745000000 Ref Offset 4.31 dB Ref 24.31 dBm 0B/div Ref 24.31 dBm Ref 24.31 dBm 33	GHz Centre #FGein:Low HAtte	ENSERULSE Tr Freq: 5.745000000 GHz Free Run Avg Hol 1 1 1 1 1 1 1 1 1 1 1 1 1	AHz Ant1 10:44:03 PM Sep 25 Radio Std: None Radio Device: B' Mkr1 5.748759 (0.40982 d Span 30 Sweep 1.333 16.1 dBm ver 99.00 %	,2023 Frequency rs Frequency Bm Center Frequency 5.745000000 GH MHz Bms CF Step 3.000000 MH Auto Max Freq Offset
Rt S0 Ω AC enter Freq 5.745000000 Ref Offset 4.31 dB Ref 24.31 dBm 0B/div Ref 24.31 dBm Ref 24.31 dBm 33	GHz Centre #FGein:Low HAtte	ENSERULSE Tr Freq: 5.745000000 GHz Free Run Avg Hol 1 1 1 1 1 1 1 1 1 1 1 1 1	AHz Ant1 10:44:03 PM Sep 25 Radio Std: None Radio Device: B' Mkr1 5.748759 (0.40982 d Span 30 Sweep 1.333 16.1 dBm ver 99.00 %	,2023 Frequency rs Frequency SHZ Center Frequency 5.745000000 GH MHz Sms 3.000000 MH Auto Freq Offset

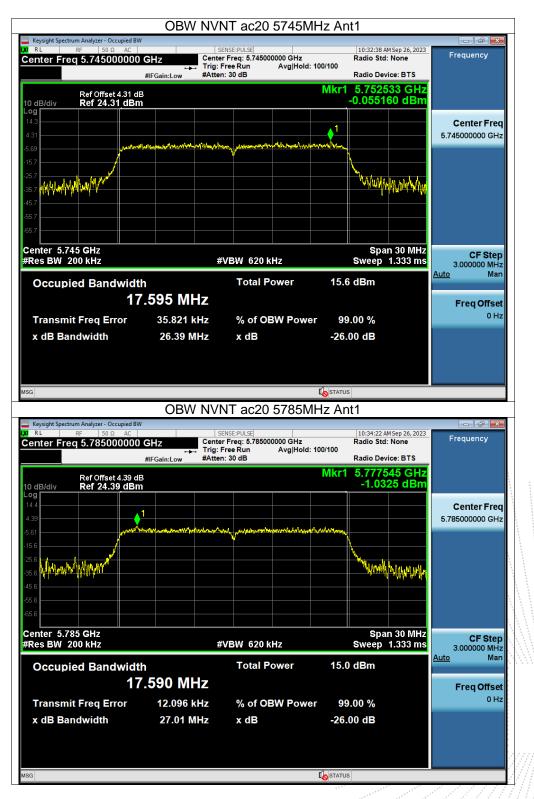














RL RF 50 Ω AC enter Freq 5.825000000 50000000 5000000000000000000000000000000000000	GHz Cente	SENSE:PULSE	10:36:45 AM Sep 26, 20 Radio Std: None	Frequency
	Trig:	Free Run Avg Hold: 100/1 n: 30 dB	00 Radio Device: BTS	
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10. Maximum Conducted Output Power

10.1 Block Diagram Of Test Setup



10.2 Limit

According to FCC §15.407

The maximum conduced output power should not exceed:

Frequency Band(MHz)	Limit
5150~5250	0.25W
5250~5350	0.25W
5725~5850	1W

10.3 Test Procedure

Maximum conducted output power may be measured using a spectrum analyzer/EMI receiver or an RF power meter.

1. Device Configuration

If possible, configure or modify the operation of the EUT so that it transmits continuously at its maximum power control level (see section II.B.).

a) The intent is to test at 100 percent duty cycle; however a small reduction in duty cycle (to no lower than 98 percent) is permitted if required by the EUT for amplitude control purposes. Manufacturers are expected to provide software to the test lab to permit such continuous operation.

b) If continuous transmission (or at least 98 percent duty cycle) cannot be achieved due to hardware limitations (e.g., overheating), the EUT shall be operated at its maximum power control level with the transmit duration as long as possible and the duty cycle as high as possible.

2. Measurement using a Spectrum Analyzer or EMI Receiver (SA)

Measurement of maximum conducted output power using a spectrum analyzer requires integrating the spectrum across a frequency span that encompasses, at a minimum, either the EBW or the 99-percent occupied bandwidth of the signal.1 However, the EBW must be used to determine bandwidth dependent limits on maximum conducted output power in accordance with § 15.407(a).

a) The test method shall be selected as follows: (i) Method SA-1 or SA-1 Alternative (averaging with the EUT transmitting at full power throughout each sweep) shall be applied if either of the following conditions can be satisfied:

• The EUT transmits continuously (or with a duty cycle ≥ 98 percent).

• Sweep triggering or gating can be implemented in a way that the device transmits at the maximum power control level throughout the duration of each of the instrument sweeps to be averaged. This condition can generally be achieved by triggering the instrument's sweep if the duration of the sweep (with the analyzer configured as in Method SA-1, below) is equal to or shorter than the duration T of each transmission from the EUT and if those transmissions exhibit full power throughout their durations.



(ii) Method SA-2 or SA-2 Alternative (averaging across on and off times of the EUT transmissions, followed by duty cycle correction) shall be applied if the conditions of (i) cannot be achieved and the transmissions exhibit a constant duty cycle during the measurement duration. Duty cycle will be considered to be constant if variations are less than ± 2 percent.

(iii) Method SA-3 (RMS detection with max hold) or SA-3 Alternative (reduced VBW with max hold) shall be applied if the conditions of (i) and (ii) cannot be achieved.

b) Method SA-1 (trace averaging with the EUT transmitting at full power throughout each sweep): (i) Set span to encompass the entire emission bandwidth (EBW) (or, alternatively, the entire 99% occupied bandwidth) of the signal.

(ii) Set RBW = 1 MHz.

(iii) Set VBW ≥ 3 MHz.

(iv) Number of points in sweep \geq 2 Span / RBW. (This ensures that bin-to-bin spacing is \leq RBW/2, so that narrowband signals are not lost between frequency bins.)

(v) Sweep time = auto.

(vi) Detector = RMS (i.e., power averaging), if available. Otherwise, use sample detector mode.

(vii) If transmit duty cycle < 98 percent, use a video trigger with the trigger level set to enable triggering only on full power pulses. Transmitter must operate at maximum power control level for the entire duration of every sweep. If the EUT transmits continuously (i.e., with no off intervals) or at duty cycle \geq 98 percent, and if each transmission is entirely at the maximum power control level, then the trigger shall be set to "free run".

(viii) Trace average at least 100 traces in power averaging (i.e., RMS) mode.

(ix) Compute power by integrating the spectrum across the EBW (or, alternatively, the entire 99% occupied bandwidth) of the signal using the instrument's band power measurement function with band limits set equal to the EBW (or occupied bandwidth) band edges. If the instrument does not have a band power function, sum the spectrum

10.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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10.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.8V
Test Mode:	5180-5240MHz		

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	а	5180	10.15	24	Pass
NVNT	а	5200	9.78	24	Pass
NVNT	а	5240	10.29	24	Pass
NVNT	n20	5180	9.70	24	Pass
NVNT	n20	5200	9.80	24	Pass
NVNT	n20	5240	9.40	24	Pass
NVNT	n40	5190	8.58	24	Pass
NVNT	n40	5230	8.98	24	Pass
NVNT	ac20	5180	8.87	24	Pass
NVNT	ac20	5200	8.65	24	Pass
NVNT	ac20	5240	9.45	24	Pass
NVNT	ac40	5190	8.76	24	Pass
NVNT	ac40	5230	8.81	24	Pass
NVNT	ac80	5210	7.59	24	Pass



Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.8V
Test Mode:	5745-5825MHz		

Condition	Mode	Frequency (MHz)	Conducted Power (dBm)	Limit (dBm)	Verdict
NVNT	а	5745	10.01	30	Pass
NVNT	а	5785	9.64	30	Pass
NVNT	а	5825	9.05	30	Pass
NVNT	n20	5745	10.02	30	Pass
NVNT	n20	5785	9.76	30	Pass
NVNT	n20	5825	9.18	30	Pass
NVNT	n40	5755	8.43	30	Pass
NVNT	n40	5795	8.76	30	Pass
NVNT	ac20	5745	9.58	30	Pass
NVNT	ac20	5785	8.98	30	Pass
NVNT	ac20	5825	8.59	30	Pass
NVNT	ac40	5755	8.32	30	Pass
NVNT	ac40	5795	8.88	30	Pass
NVNT	ac80	5775	8.11	30	Pass



11. Out Of Band Emissions

11.1 Block Diagram Of Test Setup



11.2 Limit

According to FCC §15.407(b)

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits: (1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

11.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.

3. Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.

4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

5. Repeat above procedures until all measured frequencies were complete.

11.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data

11.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Test Voltage:	DC 3.8V



5180-5240MHz





















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Keysight Spectrum Analyzer - Swept SA								d d 🗙
X RL RF 50 Ω AC Center Freg 5.190000000 AC AC </td <td>GHz</td> <td>ENSE:PULSE</td> <td>#Avg Type</td> <td></td> <td>TRAC</td> <td>4 Sep 26, 2023 E 1 2 3 4 5 6</td> <td>Frequ</td> <td>lency</td>	GHz	ENSE:PULSE	#Avg Type		TRAC	4 Sep 26, 2023 E 1 2 3 4 5 6	Frequ	lency
	PNO: Fast Hand Trig:	Free Run n: 30 dB	Avg Hold:	100/100	TYF			
Ref Offset 4.33 dB 10 dB/div Ref 20.00 dBm				Mk	r1 5.236 -1.29	6 GHz 91 dBm	Αι	ito Tune
Log 10.0							Cer	nter Freg
0.00		ut de la company anna de la company	also alla state	muhilf-internetry				0000 GHz
-10.0		and a statistically						
-20.0	32				hlupper	DL1 -27.00 dBm	S	tart Freq
-30.0 -40.0 Ragenzerskynangythingheller	And War my advantage				A A A A A A A A A A A A A A A A A A A	(and a contraction of the states of the stat	5.09000	0000 GHz
-50.0							S	top Freq
-70.0							5.29000	0000 GHz
Start 5.0900 GHz #Res BW 1.0 MHz	#VBW 3.0 M	Hz	s	weep 1	Stop 5.2 .000 ms (900 GHz 1001 pts)		CF Step 0000 MHz Man
MKR MODE TRC SCL X	36 6 GHz -1.29	FUNC	TION FUN	CTION WIDTH	FUNCTIO	ON VALUE	Auto	wan
2 N 1 f 5.1	50 0 GHz -34.05						Ere	eq Offset
4	48 6 GHz -28.89	IdBm						0 Hz
5						=		_
8							Sc	ale Type
9							Log	Lin
11								
MSG					5			

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5745-5825MHz







No.: BCTC/RF-EMC-005















Band Ec	lge NVNT ac	80 5775MHz H	igh Ant1	
Keysight Spectrum Analyzer - Swept SA				- ¢ ×
IX RL RF 50 Ω AC Center Freq 5.755000000 GHz	SENSE:PULSE	#Avg Type: RMS	11:31:00 AM Sep 26, 2023 TRACE 1 2 3 4 5 6	Frequency
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-20.0 -30.0 -40.0	2 MUT		Velal Angene Marial Accord	Start Freq 5.655000000 GHz
-60.0				Stop Freq 5.855000000 GHz
Start 5.6550 GHz #Res BW 1.0 MHz #V	BW 3.0 MHz	Sweep ′	Stop 5.8550 GHz 1.000 ms (1001 pts)	CF Step 20.000000 MHz
MKR MODE TRC SCL X	Y	FUNCTION FUNCTION WIDTH	FUNCTION VALUE	<u>Auto</u> Man
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8				Scale Type
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MSG	m	STATU	4	
mod		US STATU		

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12. Spurious RF Conducted Emissions

12.1 Block Diagram Of Test Setup



12.2 Limit

Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits: (1)For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of -27 dBm/MHz.

(2)For transmitters operating in the 5.725-5.85 GHz band(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

12.3 Test Procedure

1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.

Position the EUT without connection to measurement instrument. Turn on the EUT and connect its antenna terminal to measurement instrument via a low loss cable. Then set it to any one measured frequency within its operating range, and make sure the instrument is operated in its linear range.
 Set RBW of spectrum analyzer to 1 MHz with a convenient frequency span.

4. Measure the highest amplitude appearing on spectral display and set it as a reference level. Plot the graph with marking the highest point and edge frequency.

5. Repeat above procedures until all measured frequencies were complete.

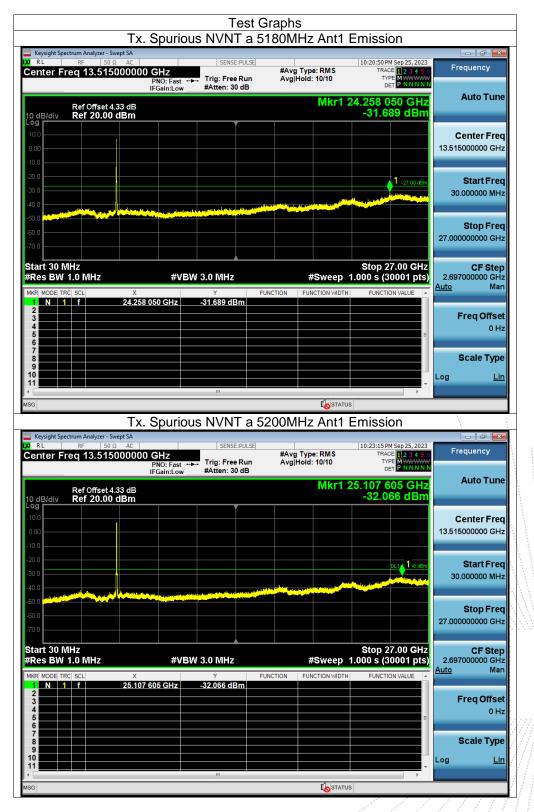
12.4 Test Result

Remark: The measurement frequency range is from 9KHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandege measurement data.

About:26.5GHz-40GHz, The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



5180-5240MHz









RL RF 5 enter Freq 13.51				g Type: RMS	10:40:28 PM Sep 25, 2023 TRACE 1 2 3 4 5 6	Frequency
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Res BW 1.0 MHz	X	#VBW 3.0 MHz	FUNCTION	#Sweep 1	.000 s (30001 pts)	2.697000000 GH Auto Ma
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Keysight Spectrum Analyzer -		ious NVNT	n20 5240	IVIHZ ANTI	Emission	
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	IFGain			Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE MWWWWW DET PNNNN	
Ref Offset	IFGain:			Hold: 100/100	5.101 312 GHz	
dB/div Ref 20.0	IFGain:			Hold: 100/100		
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dB/div Ref 20.0 09 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	IFGain:			Hold: 100/100	5.101 312 GHz -31.603 dBm	Auto Tun Center Fre 13.51500000 GH Start Fre 30.000000 MH Stop Fre
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dB/div Ref 20.0 0	IFGain :4.32 dB 0 dBm 	#VBW 3.0 MHz	50 dB	Mkr1 2	5.101 312 GHz -31.603 dBm	Auto Tun Center Fre 13.51500000 GH 30.000000 MH 27.00000000 GH 27.00000000 GH 2.697000000 GH Auto Ma
dB/div Ref 20.0 00	IFGain :4.32 dB 0 dBm 	#VBW 3.0 MHz	50 dB	Mkr1 2	5.101 312 GHz -31.603 dBm	Auto Tun Center Fre 13.515000000 GH Start Fre 30.0000000 MH Stop Fre 27.000000000 GH 2.597000000 GH Auto Ma
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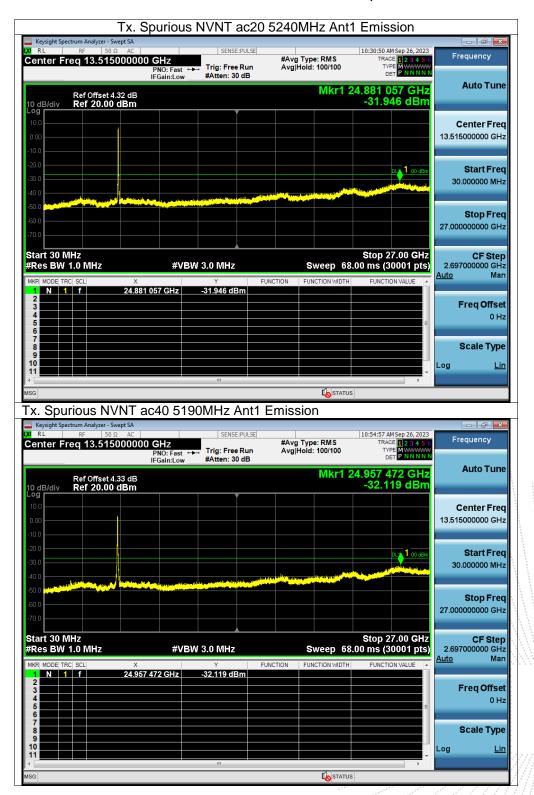
	Swept SA Ω AC	SENSE:PULSE		10:41:32 AM Sep 26, 2023	
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Keysight Spectrum Analyzer - S		s NVNT n40	5230MHz Ant1	Emission	
	Ω AC	SENSE:PULSE	#Avg Type: RMS	10:46:37 AM Sep 26, 2023	Frequency
				TRACE 1 2 3 4 5 6	
	PNO: Fast IFGain:Low	Trig: Free Run #Atten: 30 dB	Avg Hold: 100/100	TRACE 123456 TYPE MWWWW DET PNNNNN	
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0 dB/div Ref 20.00	IFGain:Low		Avg[Hold: 100/100	4.872 067 GHz	Auto Tun Center Fre
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Keysight Spectrum Analyzer -	Swept SA) 5180MHz Ant1		e e 💌
enter Freq 13.51	2 AC 5000000 GHz PNO: Fast	SENSE:PULSE	#Avg Type: RMS Avg Hold: 100/100	10:26:35 AM Sep 26, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P N N N N N	Frequency
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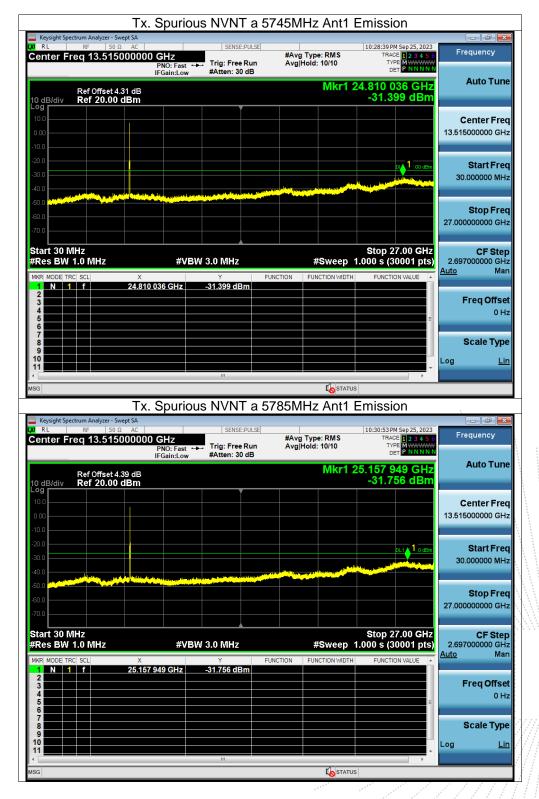
	- Swept SA i0 Ω AC	SENSE:PULSE		10:57:40 AM Sep 26, 2023	
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Keyright Spectrum Applyzer		s NVNT ac8	0 5210MHz Ant1		
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RL Ref Offset enter Freq 13.51 Ref Offset 0 dB/div Ref 20.0 00	- Swept SA 10 Ω AC 15000000 GHz PNO: Fast IFGain:Low 14.333 dB 10 dBm	SENSE:PULSE	0 5210MHz Ant1 #Avg Type: RMS Avg Hold: 100/100 Mkr1 2	1 Emission	Frequency Auto Turn Center Freq 13.51500000 GH Start Freq 30.000000 MH Stop Freq 27.00000000 GH <u>CF Step</u> 2.697000000 GH
RL RF 5 enter Freq 13.51 Ref Offset 0 dB/div Ref 20.0 0 dB/div	-Swept SA 10 Q AC ISO0000 GHz PNO: Fast IFGain:Low 4.33 dB 0 dBm 4.433 dB 10 dBm 4.434 dB 10 dBm 4.444 dB 10 dBm 4.444 dBm	SENSE:PULSE Trig: Free Run #Atten: 30 dB	0 5210MHz Ant1 #Avg Type: RMS Avg Hold: 100/100 Mkr1 2	1 Emission	Frequency Auto Tun Center Fre 13.515000000 GH Start Fre 30.000000 MH Stop Fre 27.000000000 GH 2.697000000 GH Auto Ma Freq Offsee
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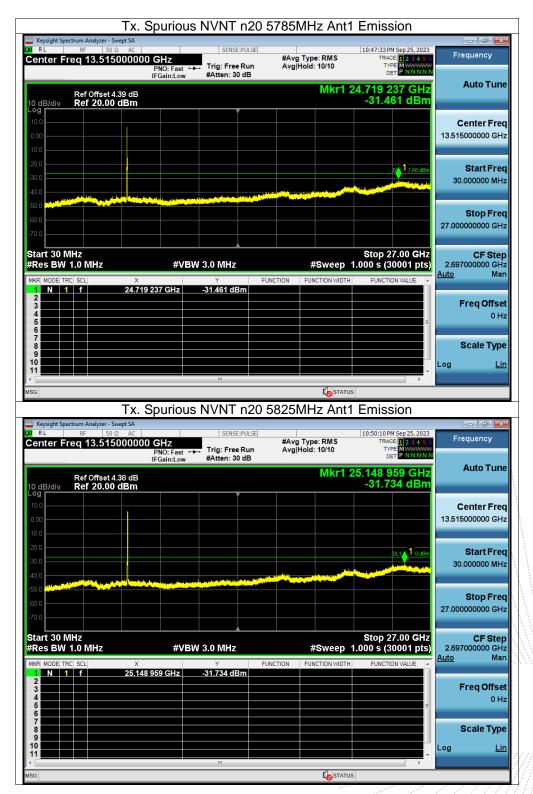
5745-58250MHz



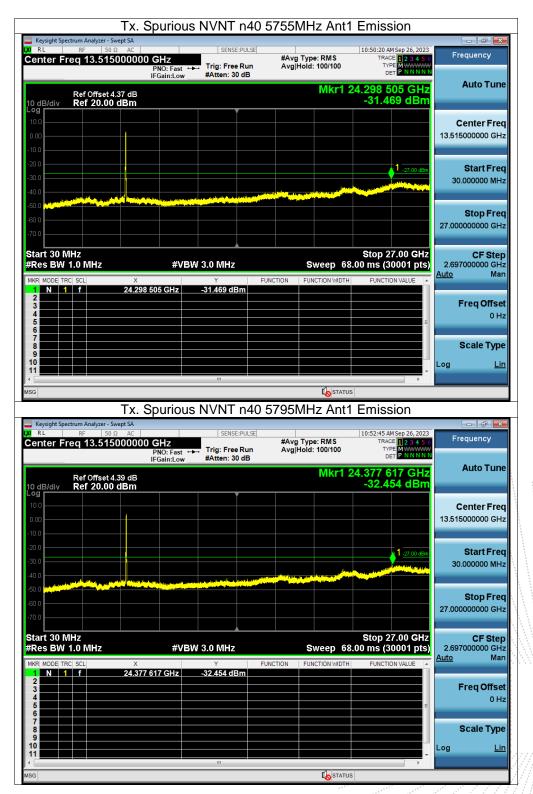


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Keysight Spectrum Analyzer -	Swept SA		5745MHz Ant1		
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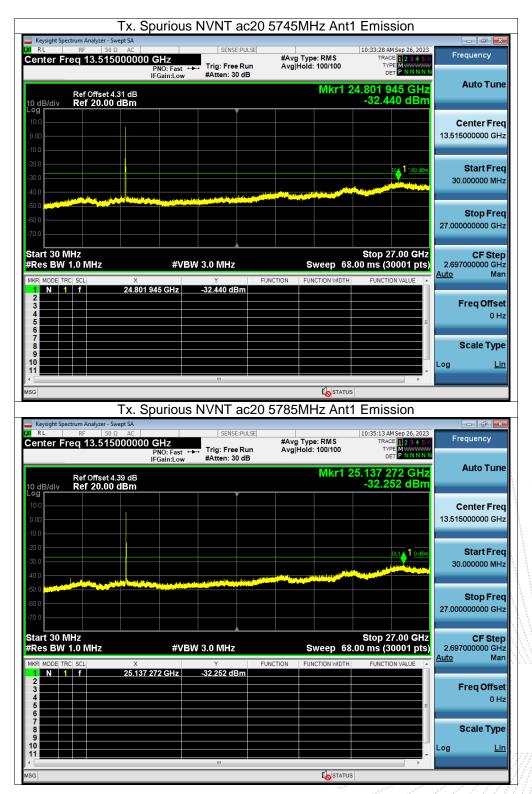














Keysight Spectrum Analyzer - S		NVNT ac20		Emission	
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	PNO: Fast	Trig: Free Run #Atten: 30 dB	Avg Hold: 100/100	TYPE MWWWW DET P NNNNN	
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Keysight Spectrum Analyzer - S		SINVINI AC40	5755MHz Ant1		- 6 -
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2 3 4	X	Y F	-	00 ms (30001 pts)	27.00000000 GH CF Ste 2.69700000 GH <u>Auto</u> Ma Freq Offse
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A0.0 A0.0	X	Y F	-	DO ms (30001 pts) FUNCTION VALUE	27.00000000 GH CF Ste 2.69700000 GH <u>Auto</u> Ma Freq Offse 0 H
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	zer - Swept SA 50 Ω AC	SENSE:PULSE	#Aug Tyme: DMC	11:02:03 AM Sep 26, 2023	Frequency
enter Freq 13.	PNO	Z : Fast ↔ Trig: Free Run in:Low #Atten: 30 dB	#Avg Type: RMS Avg Hold: 100/100	TRACE 1 2 3 4 5 6 TYPE M WWWW DET P N N N N N	Trequency
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og 🔤).00 dBm	Ĭ		-31.920 dBm	
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tart 30 MHz				Stop 27.00 GHz	CF Ste
Res BW 1.0 MHz	2	#VBW 3.0 MHz	Sweep 68.	00 ms (30001 pts)	2.697000000 GH Auto Ma
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Keysight Spectrum Analyz	zer - Swept SA		0 5775MHz Ant1		- 0 -
RL RF	zer - Swept SA 50 Ω AC 515000000 GH	SENSE:PULSE	#Avg Type: RMS	11:31:28 AM Sep 26, 2023	Frequency
RL RF	zer - Swept SA 50 Ω AC 515000000 GH PNO	SENSE:PULSE	#Avg Type: RMS Avg Hold: 100/100	11:31:28 AM Sep 26, 2023 TRACE 1 2 3 4 5 6 TYPE MWWWW DET P.N.N.N.N.	Frequency
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RL RF enter Freq 13. Ref Offs 0 dB/div Ref 20 1 dB/div Ref 20 2 dB/div Ref 20 3 dB/div <t< td=""><td>rer-Swept SA 50 Ω AC 515000000 GH PNO IFGai set 4.38 dB 0.00 dBm</td><td>Z : Fast →→ m:Low Trig: Free Run #Atten: 30 dB</td><td>#Avg Type: RMS Avg Hold: 100/100 Mkr1 2</td><td>11:31:28 AM Sep 26, 2023 TRACE 2 3 4 5 6 TYPE MANNAN 4.805 541 GHz -31.857 dBm 01 1 00 dBm 01 1 00 dBm 50 01 0 00 0 Hz 00 ms (30001 pts) FUNCTION VALUE</td><td>Frequency Auto Tun Center Fre 13.515000000 GH Start Fre 30.0000000 GH 27.000000000 GH 2.697000000 GH Auto Ma Freq Offse 0 H</td></t<>	rer-Swept SA 50 Ω AC 515000000 GH PNO IFGai set 4.38 dB 0.00 dBm	Z : Fast →→ m:Low Trig: Free Run #Atten: 30 dB	#Avg Type: RMS Avg Hold: 100/100 Mkr1 2	11:31:28 AM Sep 26, 2023 TRACE 2 3 4 5 6 TYPE MANNAN 4.805 541 GHz -31.857 dBm 01 1 00 dBm 01 1 00 dBm 50 01 0 00 0 Hz 00 ms (30001 pts) FUNCTION VALUE	Frequency Auto Tun Center Fre 13.515000000 GH Start Fre 30.0000000 GH 27.000000000 GH 2.697000000 GH Auto Ma Freq Offse 0 H
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13. Frequency Stability Measurement

13.1 Block Diagram Of Test Setup



13.2 Limit

Manufactures of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the user's manual.

The transmitter center frequency tolerance shall be \pm 20 ppm maximum for the 5 GHz band (IEEE 802.11n specification)..

13.3 Test Procedure

1. The transmitter output (antenna port) was connected to the spectrum analyzer.

2. EUT have transmitted absence of modulation signal and fixed channelize.

3. Set the spectrum analyzer span to view the entire absence of modulation emissions bandwidth.

4. Set RBW = 10 kHz, VBW = 10 kHz with peak detector and maxhold settings.

5. fc is declaring of channel frequency. Then the frequency error formula is $(fc-f)/fc \times 106$ ppm and he limit is less than ±20ppm (IEEE 802.11nspecification).

6. The test extreme voltage is to change the primary supply voltage from 85 to 115 percent of the nominal value

7. Extreme temperature is -20°C~70°C.

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13.4 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101KPa	Test Voltage:	DC 3.8V
Test Mode:	TX (5.1G) Mode Frequency l	J-NII-1 (5180-5240MHz)	

Voltage vs. Frequency Stability

				Ref	erence Freq	luency:5180Ml	Ηz
	TEST CONDITIONS				fc	Max. Deviation (MHz)	Max. Deviation (ppm)
T		V nom (V)	3.8	5179.9871	5180	-0.0129	-2.49
T nom (°C)	20	V max (V)	4.2	5179.9817	5180	-0.0183	-3.53
(0)		V min (V)	3.3	5179.9823	5180	-0.0177	-3.42
		Limits		5150-5250 MHz			
		Result			Con	nplies	

Temperature vs. Frequency Stability

				Ref	erence Freq	uency:5180Mł	Ηz
ſ	TEST CONDITIONS			f	fc	Max. Deviation (MHz)	Max. Deviation (ppm)
		T (°C)	-20	5179.9803	5180	-0.0197	-3.80
		T (°C)	-10	5179.9884	5180	-0.0116	-2.24
		T (°C)	0	5179.9864	5180	-0.0136	-2.63
		T (°C)	10	5179.9875	5180	-0.0125	-2.41
λ	2.0	T (°C)	20	5179.9806	5180	-0.0194	-3.75
V nom (V)	3.8	T (°C)	30	5179.9852	5180	-0.0148	-2.86
		T (°C)	40	5179.9848	5180	-0.0152	-2.93
		T (°C)	50	5179.9885	5180	-0.0115	-2.22
		T (°C)	60	5179.9836	5180	-0.0164	-3.17
		T (°C)	70	5179.9837	5180	-0.0163	-3.15
	l	_imits		*******	5150-5	250 MHz	
	F	Result			Con	nplies	