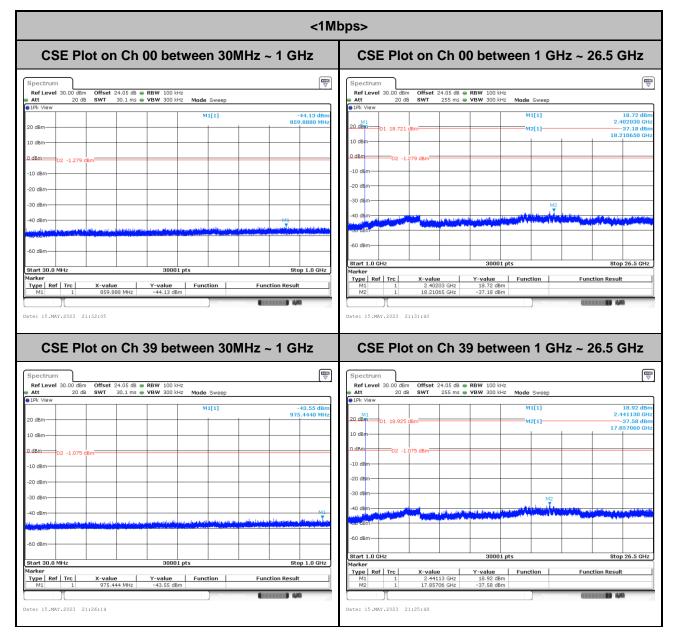


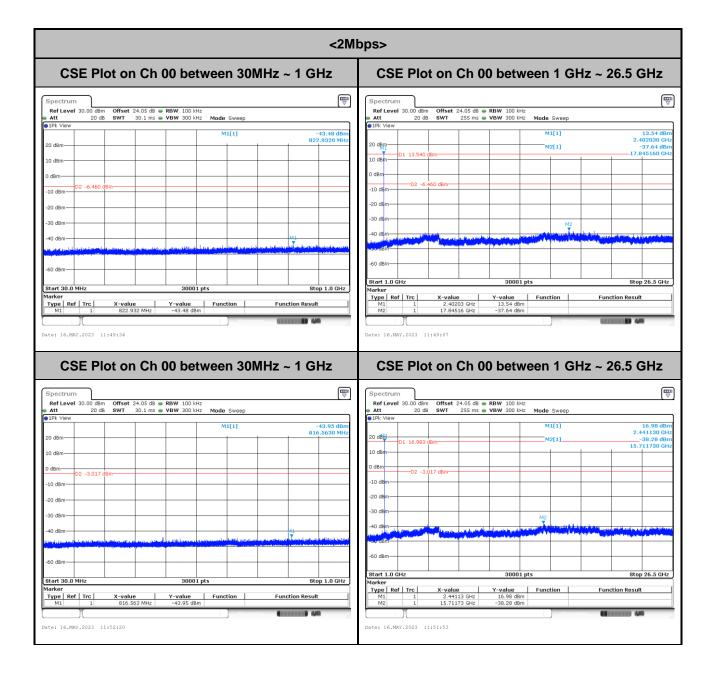
# Spurious Emission





CSE Plot on Ch 78 between 30MHz ~ 1 GHz	CSE Plot on Ch 78 between 1 GHz ~ 26.5 GHz
Spectrum         Image: Constraint of the second secon	Spectrum         Image: Construct of the second
-50 dBm	-60 dBm
Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         991.513 MHz         -43.54 dBm	Vypi Ker         Irc         X-Value         Y-Value         Irunction         Function           M1         1         2.40023 GHz         18.37 GBm         19.37 GBm         10.37 GBm           M2         1         18.83028 GHz         -38.08 GBm         10.37 GBm         10.37 GBm           Date:         15.MAY.2023         21:20:52         15.00 GBm         10.00 GBm         10.00 GBm

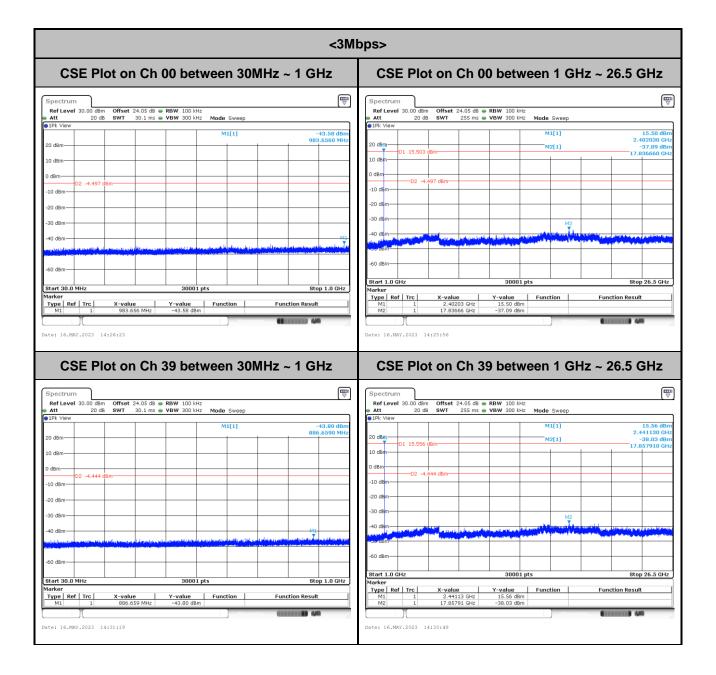






CSE Plot on Ch 00 between 30MHz ~ 1 GHz	z CSE Plot on Ch 00 between 1 GHz ~ 26.5 GHz
Spectrum         Offset 24.05 dB @ RBW 100 kHz           Ref Level 30.00 dBm         Offset 24.05 dB @ RBW 100 kHz           Att         20 dB SWT 30.1 ms @ VBW 300 kHz           \$IPk View         N1[1]	Impose         Spectrum         Impose         Impo
20 dBm     629,700       10 dBm     20 45,938 cBm       -10 dBm     20 5,938 cBm       -20 dBm     20 400       -10 dBm     20 400       -10 dBm     20 400       -10 dBm     20 400       -20 dBm     20 400	
-60 d8m	-60 dBm -60 dBm Start 1.0 GHz Start 1.0 GHz Start 7.0 GHZ
Marker         Type         Eff         Trc         X-value         Y-value         Function         Function Result           M1         1         629.78 MHz         -43.93 dBm         Function         Function Result           Image: State 16.MSY, 2023         11:56:46         Image: State 16.MSY, 2023         Image: State 16.M	Type         Ref         Trc         X-value         Y-value         Function         Function           M1         1         2.4023 GHz         14.06 dBm         Mil         M







CSE Plot on (	Ch 78 between 30MHz	~ 1 GHz	CSE Plot on Ch 78 between 1 GHz ~ 26.5 GHz
	05 dB ● RBW 100 kHz 1 ms ● VBW 300 kHz Mode Sweep	♥	Spectrum         mp           Ref Level 30.00 dBm         Offset 24.05 dB         RBW 100 kHz           Att         20 dB         SWT         255 ms         VBW 300 kHz         Mode Sweep           1Pk View
20 dBm	MI(1)	-44.23 dBm 960.9910 MHz	20 dBm         M1[1]         15.81 dBm           21 dBm         N2[1]         -37.66 dBm           10 dBm         15.81 31580 dBm         15.81 31580 dBm           0 dBm         -27.66 dBm         -27.66 dBm           0 dBm         -20 dBm         -20 dBm           -10 dBm         -20 dBm         -20 dBm           -20 dBm         -20 dBm         -20 dBm           -30 dBm         -20 dBm         -20 dBm           -30 dBm         -20 dBm         -20 dBm
-60 dBm	30001 pts	Stop 1.0 GHz	-60 dBm
Marker         Trc         X-value           M1         1         960.991           ate:         16.MAY.2023         14:38:24	MHz -44.23 dBm	unction Result	Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2,40023 GHz         15.8148 Mm         15.8148 Mm         15.8148 Mm         10.8148 Mm <td< td=""></td<>





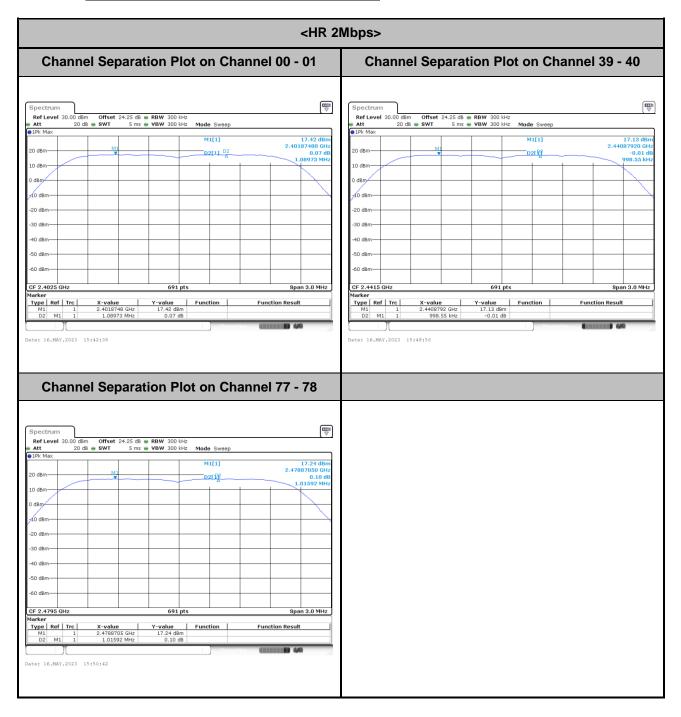
<HR 2Mbps Ant. 3>

# Number of Hopping Frequency

2 n o otroi									E
Spectrum	n I 30.00 dBm	Offset	24.25 dB 👄	PBW 300	kH2				7
Att		SWT		VBW 300		sweep			
1Pk Max			1						
20 dBm		www.www.ww	mmm	man	mmm	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	anon	· · · · · · · · · · · · · · · · · · ·	noom
10 dBm-	1 - • •							V V V V	
) dBm									
-10 dBm									
10 GBIII									
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-30 dBm									
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50 dBm									
-60 dBm									
Start 2.4 G				601	nte			Ston 2	2.441 GHz
larker	J(	5:43:19		691		Measur		<b>B</b> 44	1
ate: 16.MP	)( AY.2023 15		24.25 dB 🖷			Measur	na		
larker ate: 16.MA Spectrum Ref Level Att	AY.2023 19		24.25 dB ● 5 ms ●		kHz	Mensur 9 Sweep	D0		1
larker hte: 16.MP Spectrum Ref Level Att	AY.2023 19	Offset		<b>RBW</b> 300	kHz	Measur Sweep	ng .		1
arker Spectrun Ref Level Att	AY.2023 19	Offset		<b>RBW</b> 300	kHz	Sweep	ng		1
larker hte: 16.MP Spectrum Ref Level Att	AY.2023 19	Offset		<b>RBW</b> 300	kHz	Sweep		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1
Spectrum Ref Level Att 1Pk Max	AY.2023 19	Offset		<b>RBW</b> 300	kHz	Sweep			1
Ite: 16.MP Spectrun Ref Level Att 10 Pk Max 20 dBm 10 dBm	AY.2023 19	Offset		<b>RBW</b> 300	kHz	) Meason Sweep			1
Ite: 16.MP Spectrun Ref Level Att 10 Pk Max 20 dBm 10 dBm	AY.2023 19	Offset		<b>RBW</b> 300	kHz	) Moscori Sweep			1
Arte: 16.MP Spectrun Ref Level Att 1Pk Max 20 dBm 0 dBm	AY.2023 19	Offset		<b>RBW</b> 300	kHz	Sweep		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1
Iarker           Atte:           Spectrum           Ref Level           Att           D1Pk Max           20 dBm           0 dBm           -10 dBm	AY.2023 19	Offset		<b>RBW</b> 300	kHz	Sweep		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1
Iarker           Atte:           Spectrum           Ref Level           Att           D1Pk Max           20 dBm           0 dBm           -10 dBm	AY.2023 19	Offset		<b>RBW</b> 300	kHz	) Sweep		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Arker Spectrun Ref Level Att DIPK Max 20 dBm 0 dBm 	AY.2023 19	Offset		<b>RBW</b> 300	kHz	) Sweep		······································	1
larker           Atte:           Spectrun           Ref Level           Att           PIPk Max           20 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm	AY.2023 19	Offset		<b>RBW</b> 300	kHz	Sweep		·····	
larker           Atte:           Spectrun           Ref Level           Att           PIPk Max           20 dBm           0 dBm           -10 dBm           -20 dBm           -30 dBm	AY.2023 19	Offset		<b>RBW</b> 300	kHz	Sweep		······································	
Inter           Inte:           Inte: </td <td>AY.2023 19</td> <td>Offset</td> <td></td> <td><b>RBW</b> 300</td> <td>kHz</td> <td>Sweep</td> <td></td> <td>······································</td> <td></td>	AY.2023 19	Offset		<b>RBW</b> 300	kHz	Sweep		······································	
Inter           Inte:         16.M2           Spectrun         Ref Level           Att         10 dBm           10 dBm         0 dBm           10 dBm         30 dBm           40 dBm         50 dBm	AY.2023 19	Offset		<b>RBW</b> 300	kHz	Sweep			
Inter           Inte:         16.M2           Spectrun         Ref Level           Att         10 dBm           10 dBm         0 dBm           10 dBm         30 dBm           40 dBm         50 dBm	AY.2023 19	Offset		<b>RBW</b> 300	kHz	Sweep			
larker           ste:         16.MP           Spectrun         Ref Level           Att         20 dBm           10 dBm         0 dBm           -0 dBm	) (	Offset		RBW 300 VBW 300	kHz Mode	Sweep			
Inter           Inte:         16.M2           Spectrun         Ref Level           Att         10 dBm           10 dBm         0 dBm           10 dBm         30 dBm           40 dBm         50 dBm	) (	Offset		<b>RBW</b> 300	kHz Mode	Sweep			

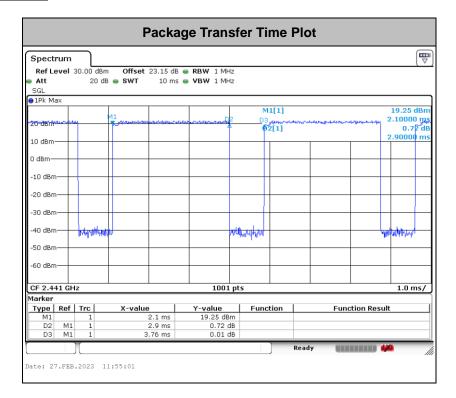


## Hopping Channel Separation





#### Dwell Time



#### Remark:

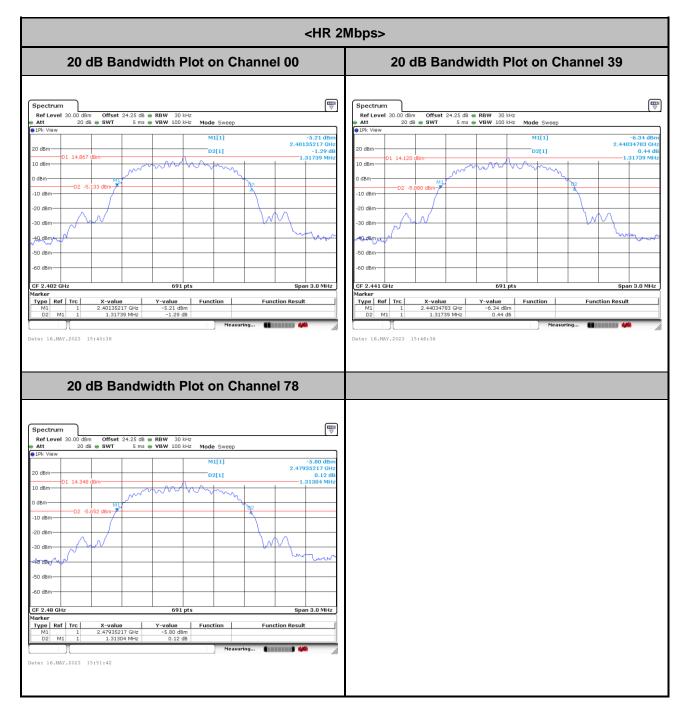
**1.** In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit  $(0.4 \times 79)$  (s),Hops Over Occupancy Time comes to  $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$  hops.

**2.** In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit  $(0.4 \times 20)$  (s), Hops Over Occupancy Time comes to  $(800 / 6 / 20) \times (0.4 \times 20) = 53.33$  hops.

3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

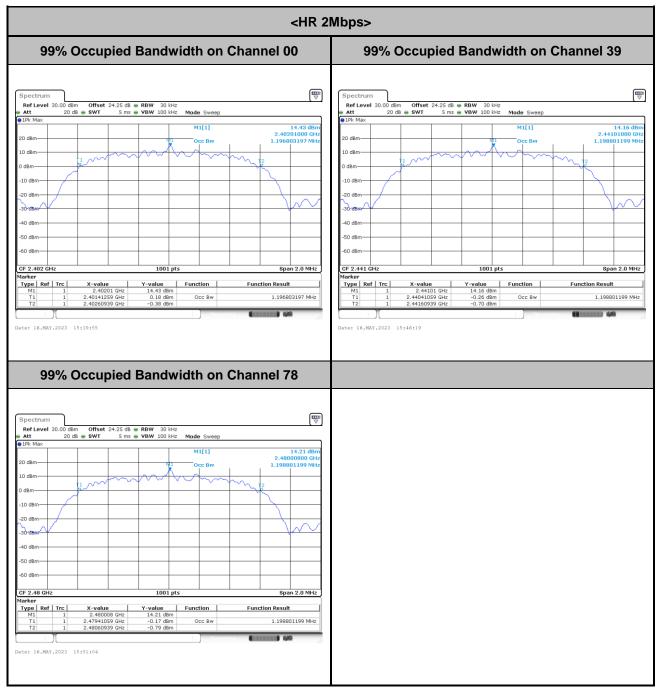


### 20dB Bandwidth





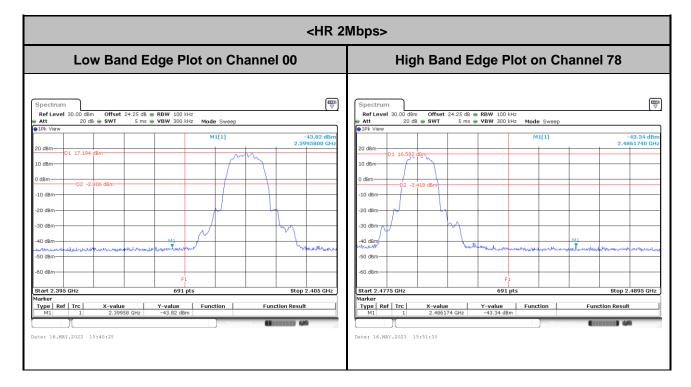
### 99% Occupied Bandwidth



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.

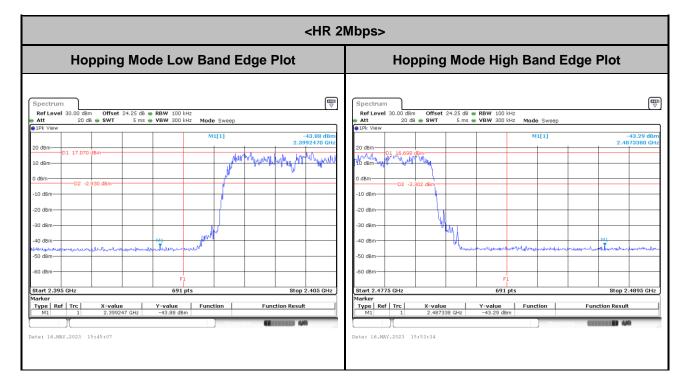


Band Edges



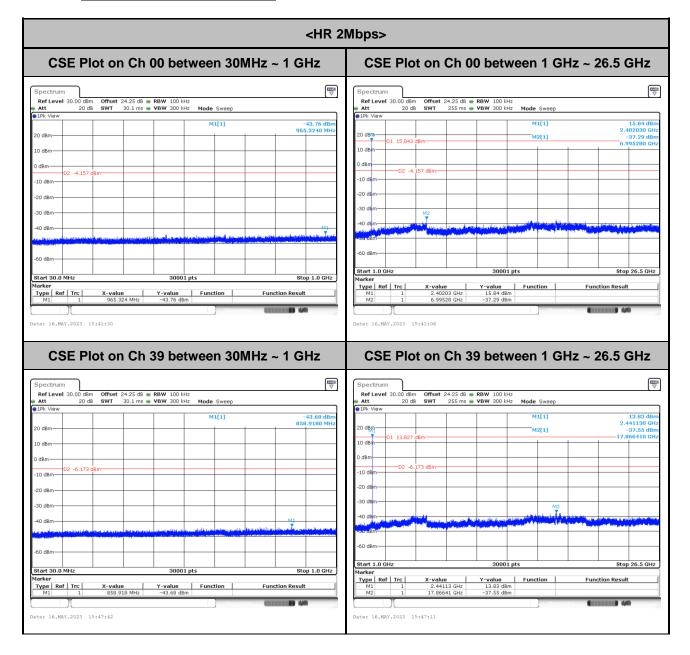


## Hopping Mode Band Edges





# Spurious Emission





CSE Plot on Ch 78 between 30MHz ~ 1 GHz	CSE Plot on Ch 78 between 1 GHz ~ 26.5 GHz
Ref Level         Offset         24.25 dB         RBW         100 HHz           Att         20 dB         SWIT         30.1 ms         WBW 300 kHz         Mode         Sweep           JEV View         30.1 ms         W BW         30.1 kHz         Mode         Sweep	Spectrum         Image: Constraint of the second secon
Jan V New         M1[1]        43.79 dBm           0 dBm         BB9.2460 MH2           0 dBm         0           10 dBm         0	20 dBm         M1[1]         14.72 dB           20 dBm         01 14.717 dBm         2.480230 cf           0 dBm         01 14.717 dBm         17.854510 cf           0 dBm         0.25,283 dBm         0.01 14.717 dBm           -00 dBm         0.00 dBm         0.00 dBm
50 d8m	Start 1.0 GHz         30001 pts         Stop 26.5 GH           Marker         30001 pts         Stop 26.5 GH
arker  ype Ref Trc X-value Y-value Function Function Result  M1 889.246 MHz -43.79 dBm	Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.48023 GHz         14.72 dBm         Function         Function Result           M2         1         17.85451 GHz         -36.15 dBm         Function         Function Result





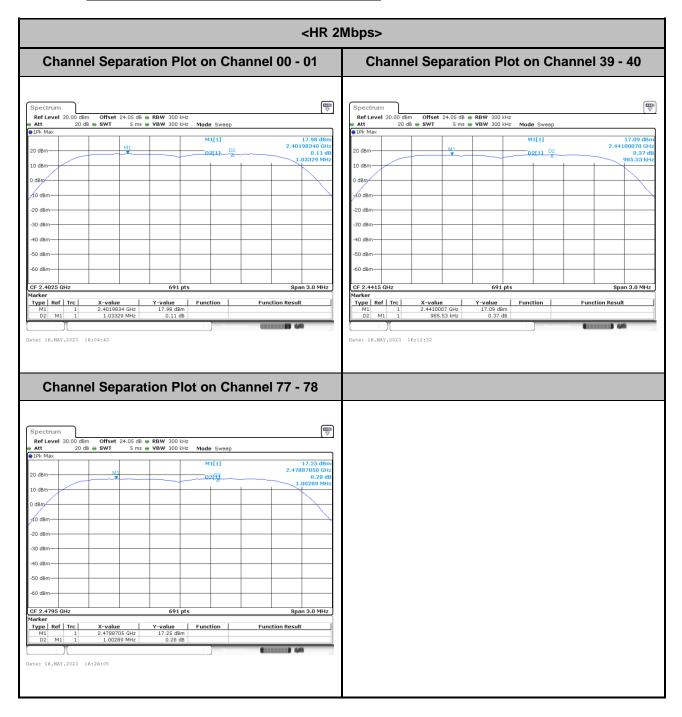
#### <HR 2Mbps Ant.4>

# Number of Hopping Frequency

Spectrur	n								
	al 30.00 dBn			RBW 300					(`
Att 1Pk Max	20 de	B 👄 SWT	5 ms 👄	<b>VBW</b> 300	kHz <b>Mode</b>	e Sweep			
IPK Max									
20 dBm— ∽√~√	mon	$\sqrt{2}$	m	mmm	m	mmm	m m	www	1/1/1/1
10 HBm	0				· ·			0 0	
) cBm——									
-10 dBm									
15 dbiii									
-20 dBm—									
30 dBm									
40 dBm—									
-50 dBm									
-60 dBm									
00 00									
Start 2.4 (				691	ntc			Ptop (	2.441 GHz
	AY.2023 1	6:05:20				Measur	ng		•
Spectrur			24.05 dB 🖷	<b>RBW</b> 300	kHz	Measur	ng		
Spectrur Ref Leve	n 1 30.00 dBn			RBW 300 VBW 300		g Sweep			
Spectrur Ref Leve	n 1 30.00 dBn	n Offset				3 Sweep	DQ.ve		Ţ
Spectrur Ref Leve Att )1Pk Max	n 1 30.00 dBn	n Offset				sweep			
Spectrur Ref Leve	n 1 30.00 dBn	n Offset			kHz Mode	a Sweep			
Spectrur Ref Leve Att ) 1Pk Max 20 dBm	n 1 30.00 dBn	n Offset				Sweep		~~~~	
Spectrur Ref Leve Att 1Pk Max 20 dBm 10 dBm	n 1 30.00 dBn	n Offset			kHz Mode	s Sweep		~~~~	
Spectrur Ref Leve Att 1Pk Max 20 dBm 10 dBm	n 1 30.00 dBn	n Offset			kHz Mode	s Sweep		~~~~	
Spectrur Ref Leve Att 11Pk Max 20 dBm 10 dBm 0 dBm	n 1 30.00 dBn	n Offset			kHz Mode	Sweep		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Spectrur Ref Leve Att 11Pk Max 20 dBm 10 dBm 0 dBm	n 1 30.00 dBn	n Offset			kHz Mode	Sweep		·····	
Spectrur Ref Leve Att 1Pk Max 20 dBm 10 dBm 0 dBm 	n 1 30.00 dBn	n Offset			kHz Mode	Sweep		·····	
Spectrur Ref Leve Att 11/k Max 20 dBm 10 dBm 10 dBm -10 dBm -20 dBm	n 1 30.00 dBn	n Offset			kHz Mode	s Sweep		·····	
Spectrur Ref Leve Att 11/k Max 20 dBm 10 dBm 10 dBm -10 dBm -20 dBm	n 1 30.00 dBn	n Offset			kHz Mode	Sweep			
Spectrur Ref Leve Att PIPk Max 20 dBm 	n 1 30.00 dBn	n Offset			kHz Mode	Sweep			
Spectrur Ref Leve Att 1Pk Max 20 dBm 0 dBm 10 dBm 20 dBm 30 dBm 40 dBm	n 1 30.00 dBn	n Offset			kHz Mode	Sweep			
Spectrur Ref Leve Att 1Pk Max 20 dBm 0 dBm 10 dBm 20 dBm 30 dBm 40 dBm	n 1 30.00 dBn	n Offset			kHz Mode	Sweep			
Spectrur Ref Leve Att 1Pk Max	n 1 30.00 dBn	n Offset			kHz Mode	Sweep			
Spectrur Ref Leve Att PIPk Max 20 dBm 10 dBm 20 dBm -10 dBm -20 dBm -20 dBm -20 dBm -50 dBm -50 dBm	n 1 30.00 dBn	n Offset			kHz Mode	Sweep			
Spectrur Ref Leve Att PIPk Max 20 dBm 10 dBm 10 dBm 20 dBm -10 dBm -20 dBm -30 dBm -30 dBm -60 dBm -60 dBm -51 dBm -61 dBm	n 20 dB 20 df	n Offset			kHz Mode ۲٫٫٫٫٫٫٫٬	Sweep		Stop 2.	4835 GHz
Spectrur Ref Leve Att PPK Max 20 dBm 10 dBm 20 dBm 20 dBm 40 dBm 50 dBm 60 dBm 50 dBm	n 20 dB 20 df	n Offset		• VBW 300	kHz Mode ۲٫٫٫٫٫٫٫٬	Meason     Meason		Stop 2.	

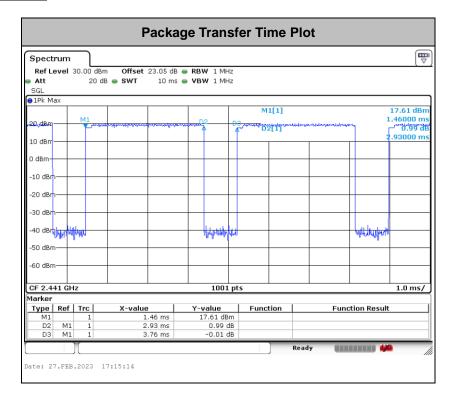


### Hopping Channel Separation





#### Dwell Time



#### Remark:

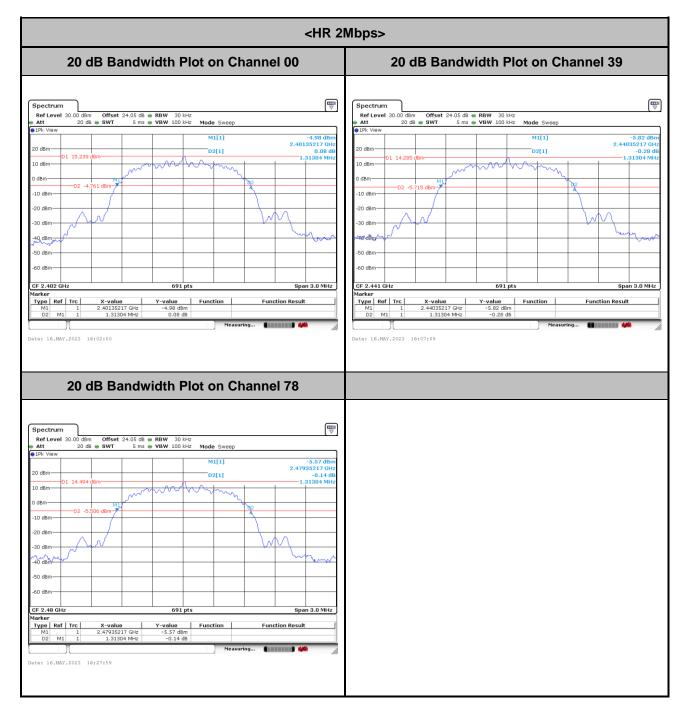
**1.** In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit  $(0.4 \times 79)$  (s),Hops Over Occupancy Time comes to  $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$  hops.

**2.** In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit  $(0.4 \times 20)$  (s), Hops Over Occupancy Time comes to  $(800 / 6 / 20) \times (0.4 \times 20) = 53.33$  hops.

3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

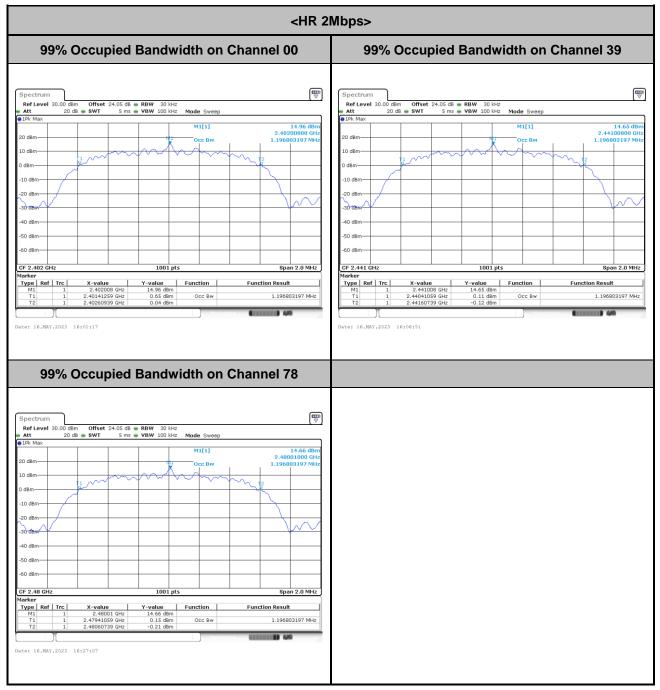


### 20dB Bandwidth





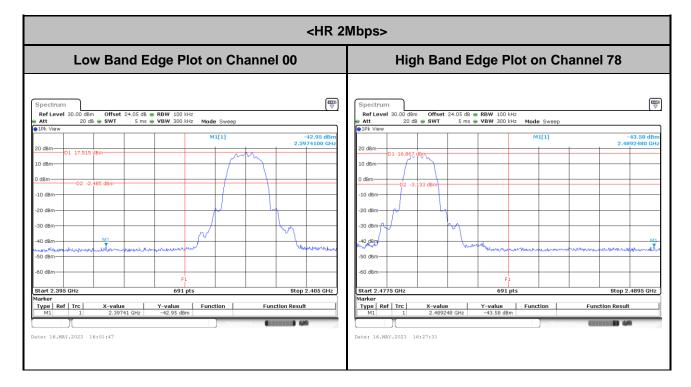
### 99% Occupied Bandwidth



Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



Band Edges



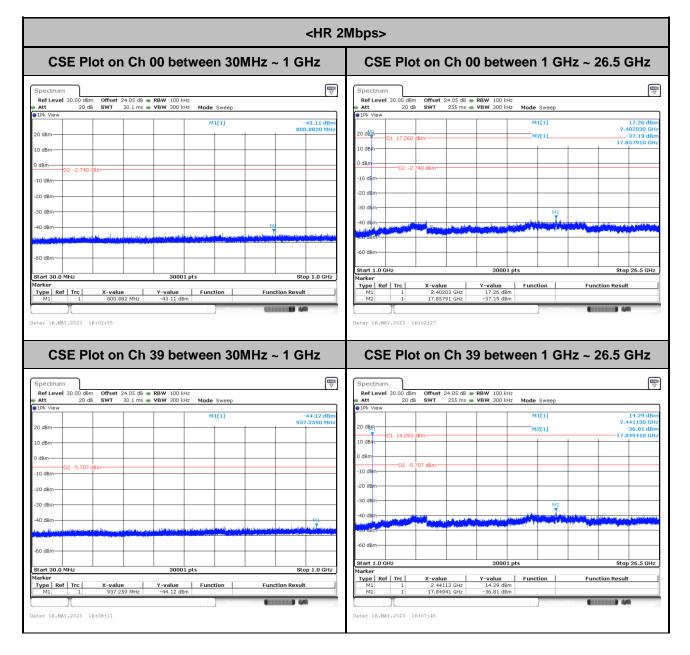


## Hopping Mode Band Edges





# Spurious Emission





CSE Plot on Ch 78 between 30MHz ~ 1 GHz	CSE Plot on Ch 78 between 1 GHz ~ 26.5 GHz
pectrum         (™)           kef Level 30.00 dBm         Offset 24.05 dB ● RBW 100 kHz           tt         20 dB SWT         30.1 ms ● VBW 300 kHz           Node         Sweep	Spectrum         #           Ref Level 30.00 dBm         Offset 24.05 dB • RBW 100 kHz         #           Att         20 dB \$WT         255 ms • VBW 300 kHz         Mode Sweep           • IFK !vew         ************************************
M1[1]        33.9.9.8 dm           dBm         955.0100 MHz           dBm         0         0         0           dBm         0         0         0         0           dBm         0         0         0         0         0           dBm         0         0         0         0         0         0           dBm         0         0         0         0         0         0         0           0 dBm         0 <th>20 dBn         M1[1]         13.29 dBn           10 dBn         01 13.278 dBn         M2[1]         -38.13 dBn           0 dBn         0 dBn         0.9 dBn         10.99650 GF           - 00 dBn         - 02 -6.722 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn</th>	20 dBn         M1[1]         13.29 dBn           10 dBn         01 13.278 dBn         M2[1]         -38.13 dBn           0 dBn         0 dBn         0.9 dBn         10.99650 GF           - 00 dBn         - 02 -6.722 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn          00 dBn         - 0.0 dBn         - 0.0 dBn         - 0.0 dBn
0 dBm	-60 dBm
art 30.00 MHz         300001 pts         Stop 1.0 GHz           rker         yppg   Ref   Trc   X-value         Y-value         Function         Function Result           M1   1         955.01 MHz         ~43.91 dBm	Marker         Y-value         Y-value         Function           M1         1         2.48023 GHz         13.28 dBm           M2         1         18.19365 GHz         -38.13 dBm



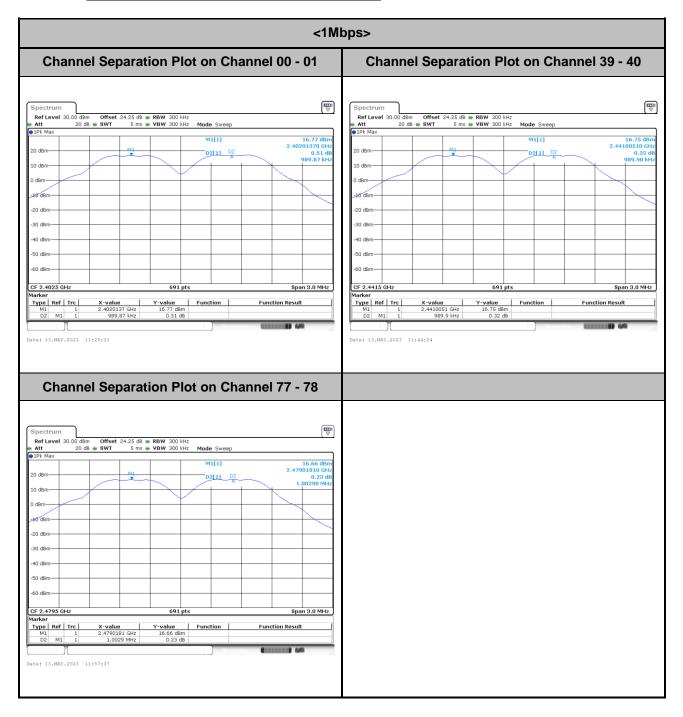
#### < TXBF BR+EDR Ant. 3>

# Number of Hopping Frequency

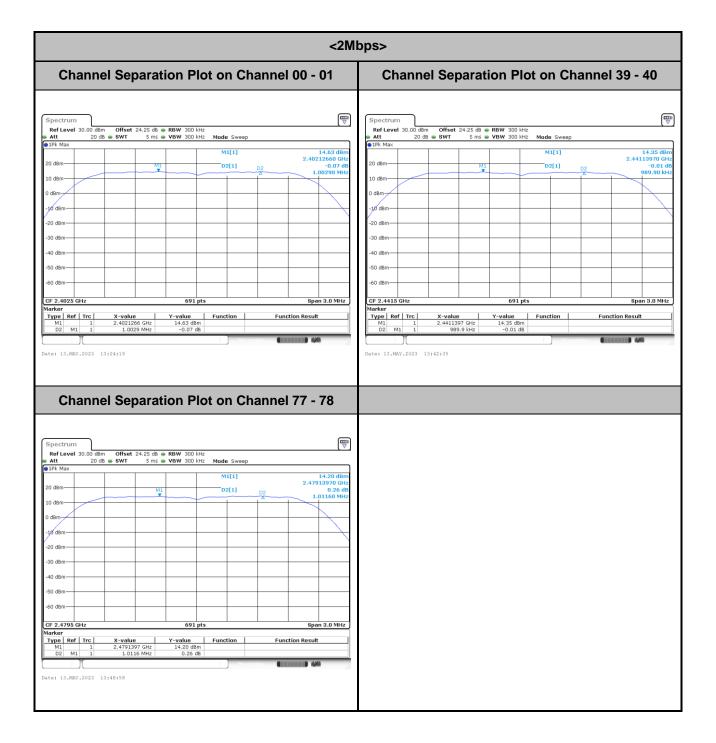
									G
pectrum Ref Level			24.25 dB 🖷	DBW 000	ku =				<b></b>
Att		di e SWT		VBW 300		sweep			
1Pk Max									
D dBm									
o <mark>¢Bm→</mark>		n v v v	www.	m	www	m	$\sim\sim\sim\sim\sim\sim$		$\sim$
dBm									
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tart 2.4 Gł				691	L				2.441 GH
:e: 13.MA)	_	14:36:56				Measur			) (
pectrum			: 24.25 dB 🖷	• RBW 300	kHz	) Measur			l Ę
e: 13.MAY pectrum Ref Level Att	30.00 dE		: 24.25 dB 5 ms	• RBW 300 • VBW 300		) Mensori 9 Sweep	DØ		) [1
e: 13.MAY pectrum Ref Level Att	30.00 dE	im Offset				) Neasur 9 Sweep			) [Ę
pectrum Ref Level Att LPk Max	30.00 dE	im Offset				9 Sweep			( ,
pectrum Ref Level Att IPk Max	30.00 dE	im Offset		VBW 300	kHz Mode	Sweep			
e: 13.MA) pectrum Ref Level Att IPk Max	30.00 dE	im Offset				Sweep			(q
pectrum pectrum Ref Level Att IPk Max 0 dBm 0 dBm	30.00 dE	im Offset		VBW 300	kHz Mode	s Sweep		·····	
pectrum pectrum Ref Level Att IPk Max 0 dBm 0 dBm	30.00 dE	im Offset		VBW 300	kHz Mode	9 Sweep	ng.		
pectrum Ref Level Att D dBm dBm dBm	30.00 dE	im Offset		VBW 300	kHz Mode	Sweep	ng.		
ee: 13.MAX pectrum Ref Level Att 1Pk Max 0 dBm dBm dBm 0 dBm	30.00 dE	im Offset		VBW 300	kHz Mode	Sweep			• 
Pectrum Ref Level Att LPk Max 0 dBm dBm 0 dBm	30.00 dE	m Offset		VBW 300	kHz Mode	Sweep		·····	
ee: 13.MAY	30.00 dE	m Offset		VBW 300	kHz Mode	Sweep			
ee: 13.MA) pectrum Ref Level Att LPk Max 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm	30.00 dE	m Offset		VBW 300	kHz Mode	Sweep			
ee: 13.MAX	30.00 dE	m Offset		VBW 300	kHz Mode	Sweep			
::e: 13.MA)           pectrum           Ref Level           Att           1Pk Max           0 dBm	30.00 dE	m Offset		VBW 300	kHz Mode	Sweep			
::::::::::::::::::::::::::::::::::::::	30.00 dE	m Offset		VBW 300	kHz Mode	Sweep			
e: 13.MAX pectrum Ref Level Att IPk Max 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm 0 dBm	30.00 dE	m Offset		VBW 300	kHz Mode	Sweep			
e: 13.MA) pectrum Ref Level Att UPk Max UPk Ma	30.00 dE 20	m Offset		VBW 300		9 Sweep		Stop 2.	4835 GH:
ipectrum ipe	30.00 dE 20	m Offset				Meescard     Sweep			4835 GH



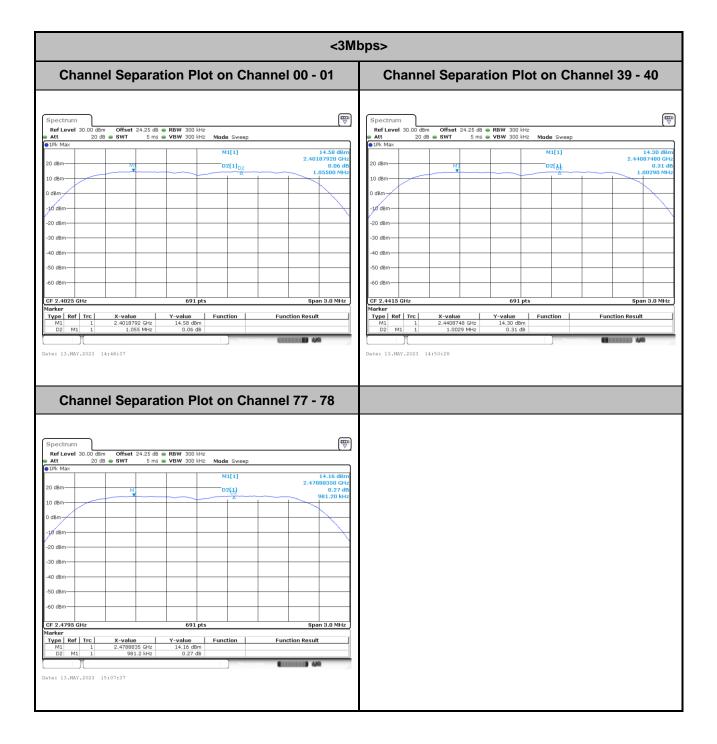
## Hopping Channel Separation





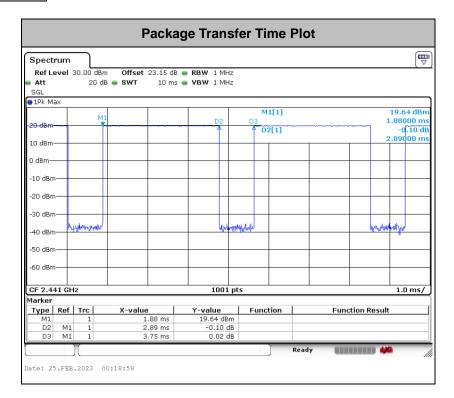








#### Dwell Time



#### Remark:

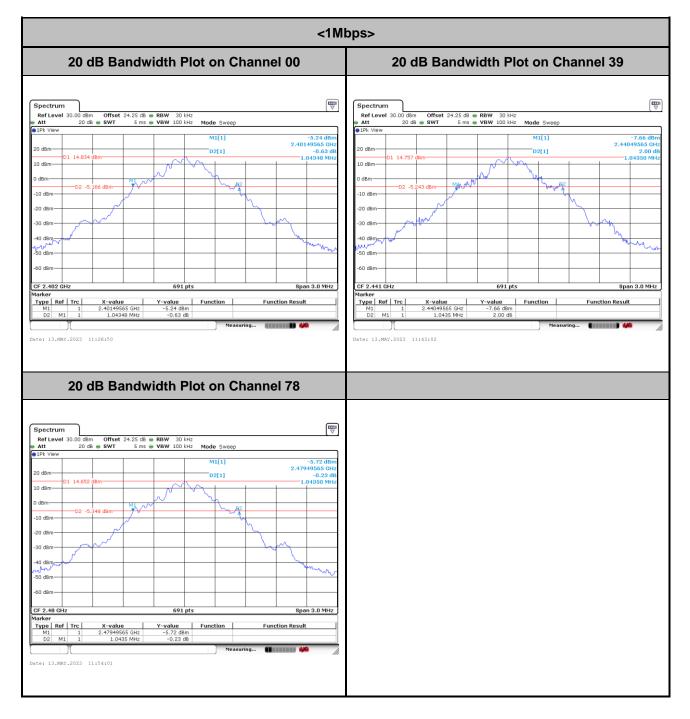
**1.** In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels. With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit  $(0.4 \times 79)$  (s),Hops Over Occupancy Time comes to  $(1600 / 6 / 79) \times (0.4 \times 79) = 106.67$  hops.

**2.** In AFH mode, hopping rate is 800 hops/s with 6 slots in 20 hopping channels. With channel hopping rate (800 / 6 / 20) in Occupancy Time Limit  $(0.4 \times 20)$  (s), Hops Over Occupancy Time comes to  $(800 / 6 / 20) \times (0.4 \times 20) = 53.33$  hops.

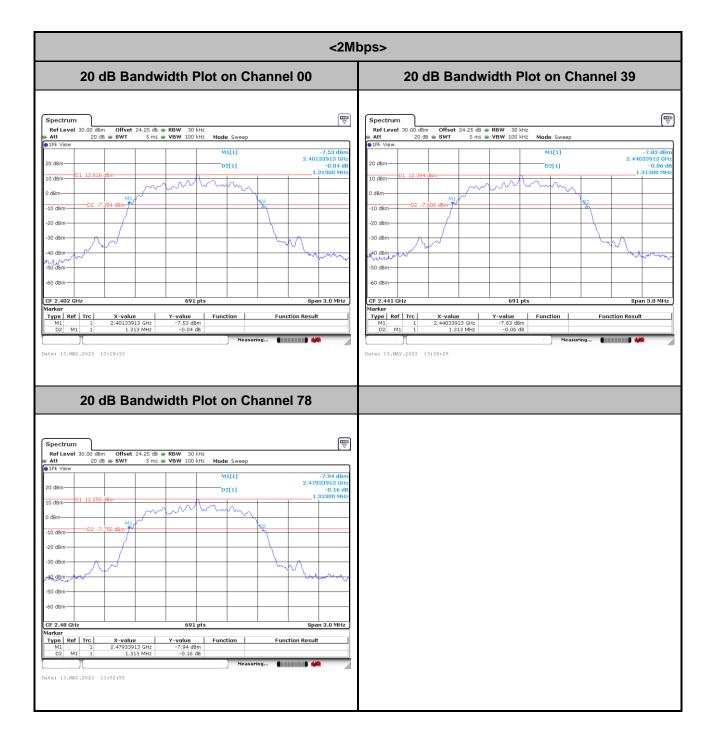
3. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time



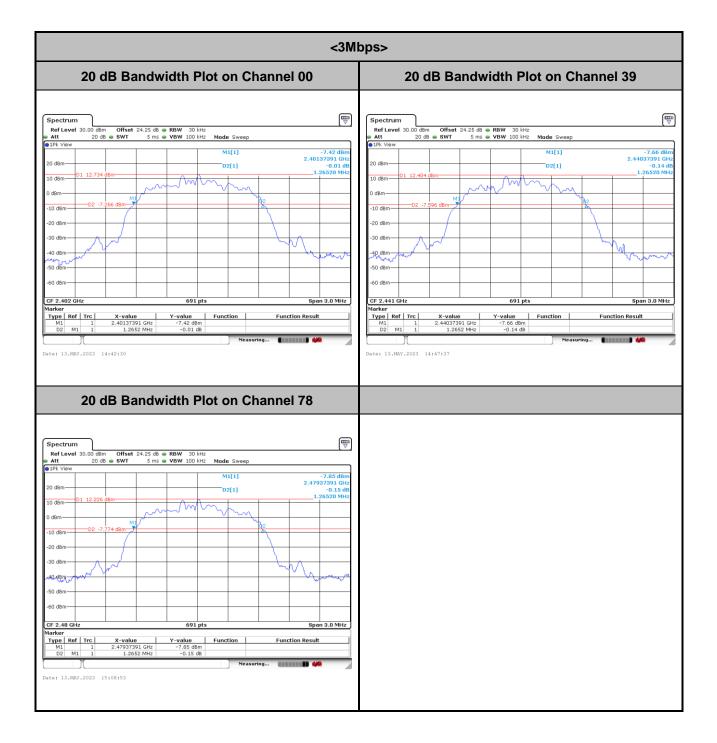
### 20dB Bandwidth





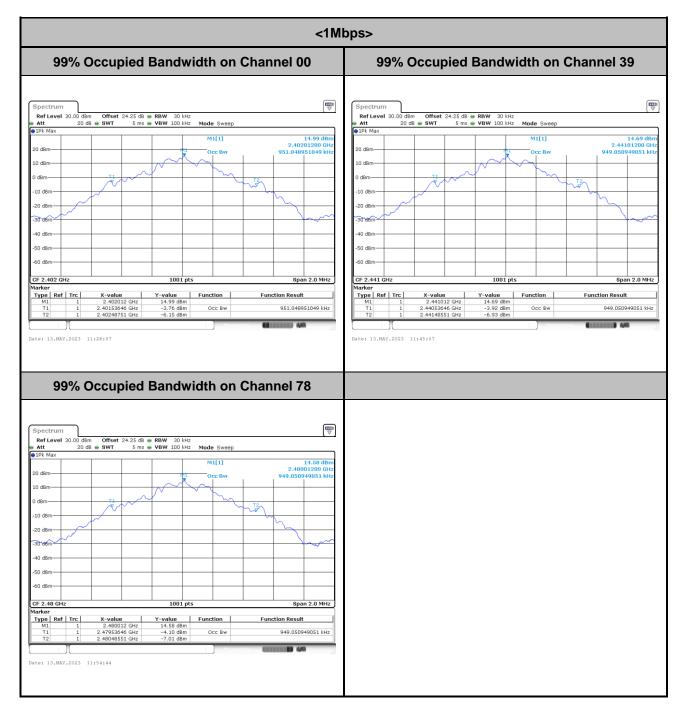




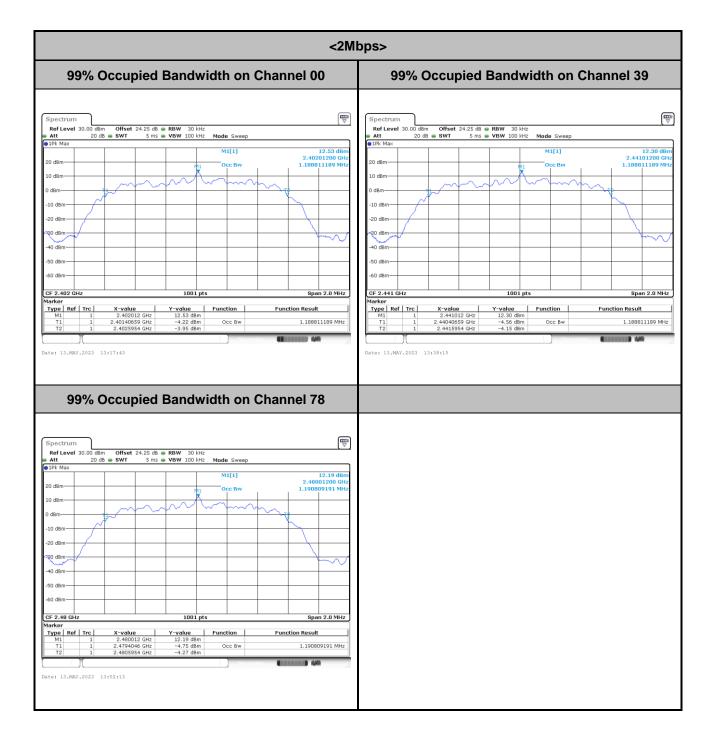




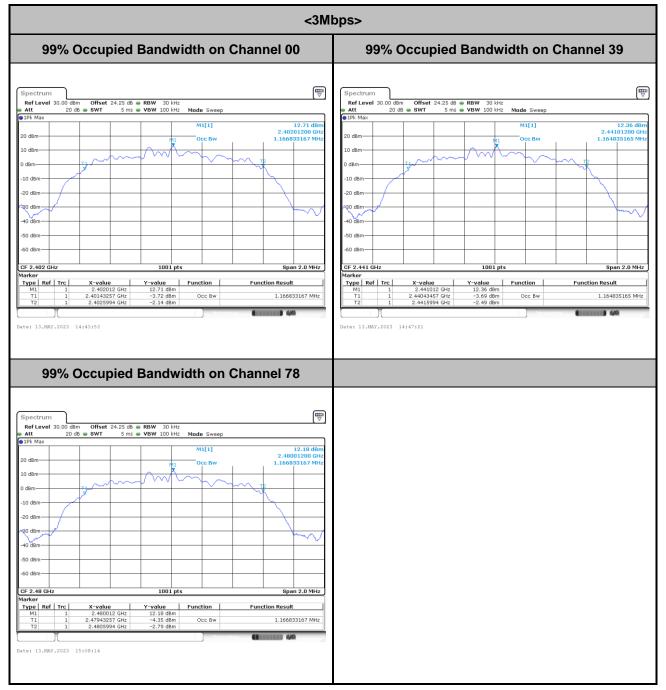
### 99% Occupied Bandwidth







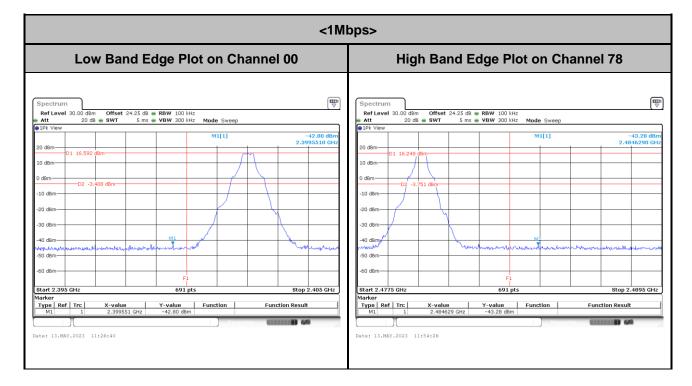




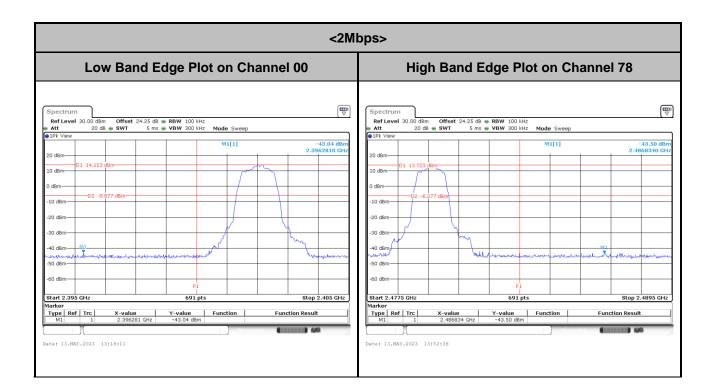
Note: The occupied channel bandwidth is maintained within the band of operation for all of the modulations.



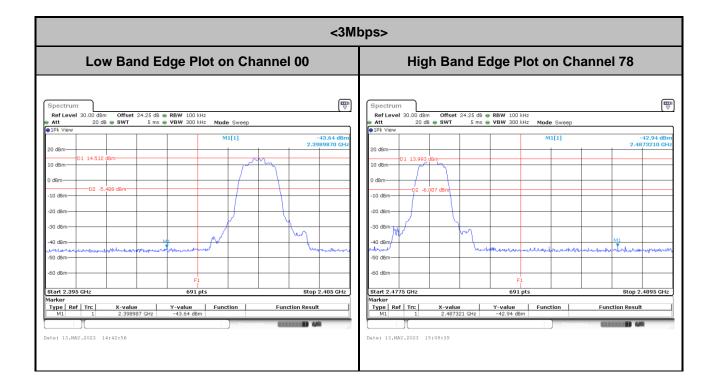
Band Edges





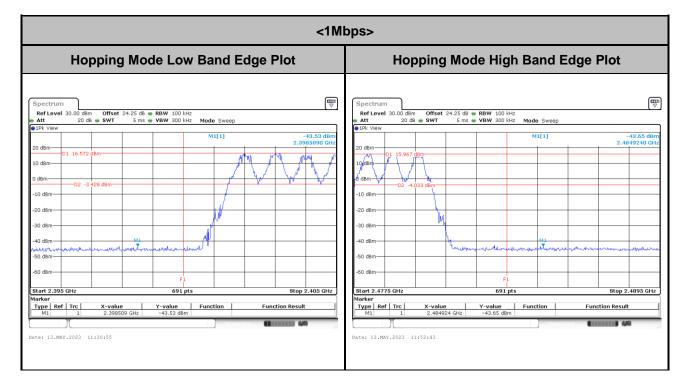




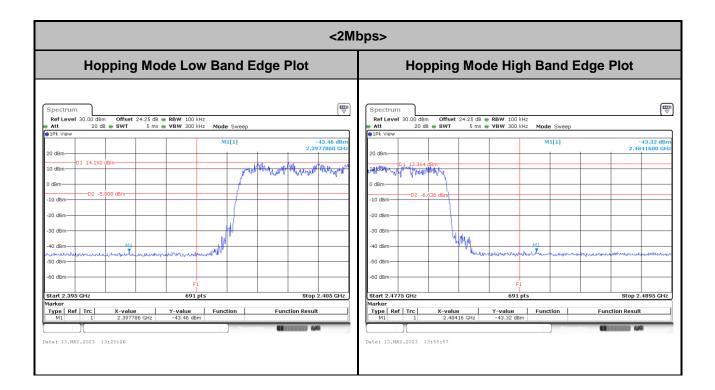




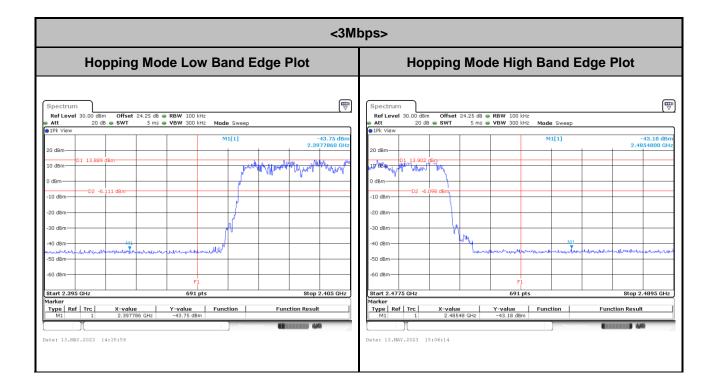
## Hopping Mode Band Edges





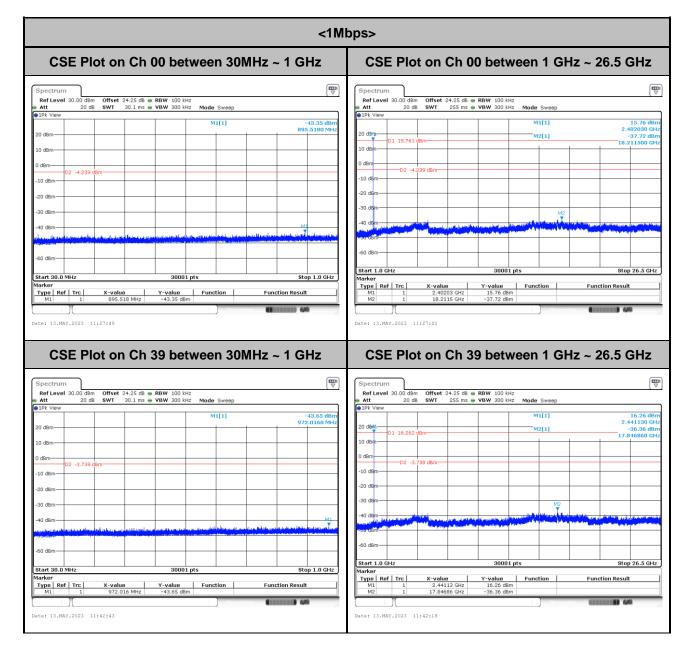








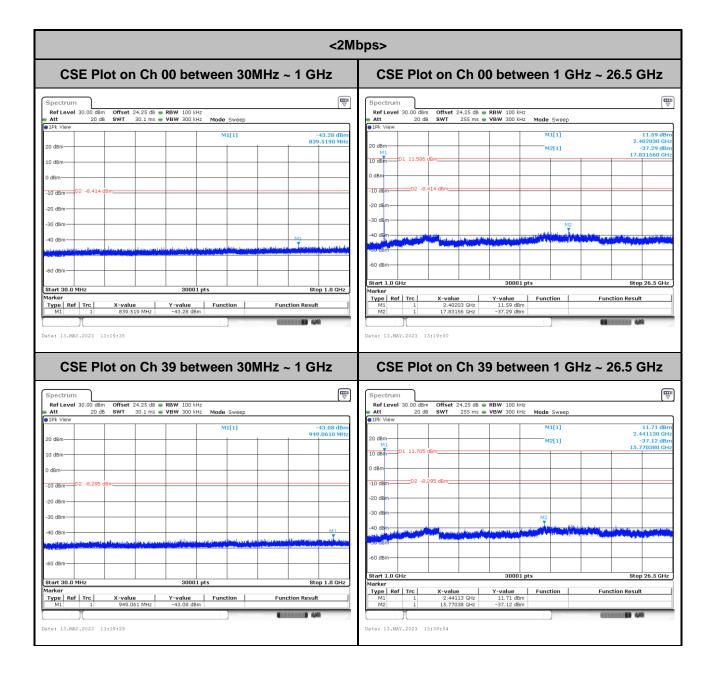
# Spurious Emission





CSE Plot on	Ch 78 between 30	CSE Plot	on Ch 7	8 betwe	en 1 GHz	~ 26.5 GHz	
	.25 dB ● RBW 100 kHz 0.1 ms ● VBW 300 kHz Mode Sweep		Spectrum Ref Level 30.00 dBm Att 20 dB	Offset 24.25 dB ● SWT 255 ms ●	RBW 100 kHz VBW 300 kHz 1	Mode Sweep	E.
20 dBm			20 dBm         01 15.443 dl           10 dBm         02 4.51           -10 dBm         -02 4.51           -10 dBm         -02 4.51           -10 dBm         -02 4.51           -20 dBm         -30 dBm           -30 dBm         -30 dBm           -40 dBm         -40 dBm	57 dBm		M1[1]	15.44 dB 2.400230 G -37.57 dB 17.841760 G
-60 dBm			Start 1.0 GHz		30001 pts		Stop 26.5 GH
Start 30.0 MHz           Iarker           Type         Ref         Trc         X-value           M1         1         993.323	30001 pts  Y-value Function  MHz ~43.74 dBm	Stop 1.0 GHz	Marker           Type         Ref         Trc           M1         1           M2         1	X-value 2.48023 GHz 17.84176 GHz	Y-value 15.44 dBm -37.57 dBm	Function	Function Result
ate: 13.MAY.2023 11:53:46	Measu	dina (1111111) 4/4	Date: 13.MAY.2023 11	:53:19		Measuring	<b>G</b> (111) (4)

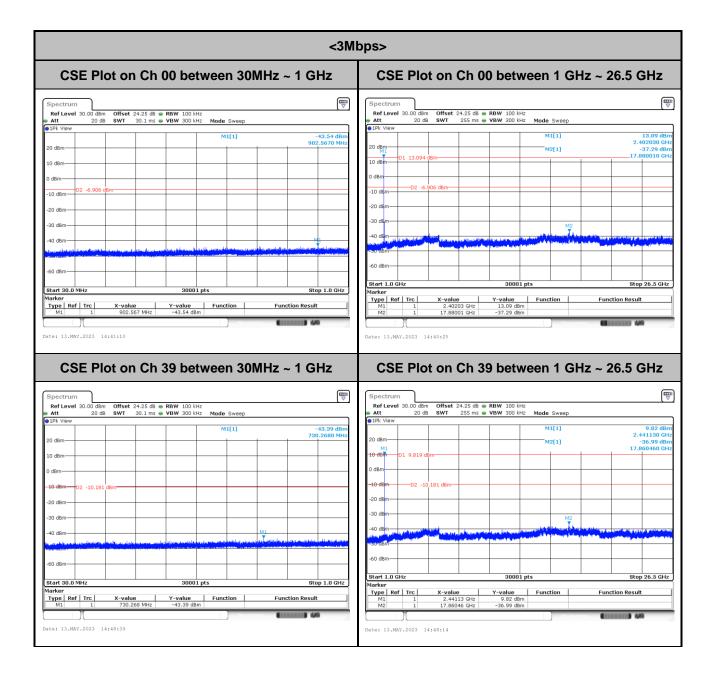






CSE Plot on C	Ch 78 between 30MHz	: ~ 1 GHz	CSE Plot on Ch 78 between 1 GHz ~ 26.5 GHz
	idB ● RBW 100 kHz ms ● VBW 300 kHz Mode Sweep		Spectrum         T           RefLevel 30.00 dBm         Offset 24.25 dB • RBW 100 kHz           Att         20 dB           SWT         255 ms • VBW 300 kHz           Mode Sweep
20 dBm		40.96 dBm 766.5770 MHz	20 dBm         M1[1]         9.43 dBm           24.00230 CH         2.400230 CH         37.47 dBn           10 dBm         01 9.432 dBm         15.491590 CH         15.491590 CH           0 dBm         0         0         0         0           -10 dBm         02 -10.568 dBm         0         0         0           -20 dBm         0         0         0         0         0           -30 dBm         0         0         0         0         0         0           -30 dBm         0
-60 dBm Start 30.0 MHz Marker	30001 pts	Stop 1.0 GHz	-60 dBm -60 dBm Start 1.0 GHz 30001 pts Stop 26.5 GHz Marker Type Ref   Trc   X-value   Y-value   Function   Function Result
Type         Ref         Trc         X-value           M1         1         766.577 Mi           ate:         13.MAY.2023         13:54:40	Hz -43.96 dBm	Constant   199	M1         1         2.48023 GHz         9.43 dBm           M2         1         15.49159 GHz         -37.47 dBm           Date:         13.MAY.2023         13:53:43







CSE Plot on	Ch 78 between 30MH	z ~ 1 GHz	CSE Plot on Ch 78 between 1 GHz ~ 26.5 GHz
	1.25 d8 <b>● RBW</b> 100 kHz 0.1 ms <b>● VBW</b> 300 kHz <b>Mode</b> Sweep	(III)	Spectrum         Transport           RefLevel 30.00 dbm         Offset 24.25 db • RBW 100 kHz           Att         20 db         SWT         255 ms • VBW 300 kHz           Mode         Sweep
20 dBm		-43.86 dBm 013.5800 MHz	20 dbm         M1[1]         12.76 dbm           20 dbm         M2[1]         2.460230 CF           10 dbm         01 12.757 dbm         17.840060 CF           0 dbm         02 -7.243 dbm         17.840060 CF           -10 dbm         02 -7.243 dbm         17.840060 CF           -20 dbm         17.840060 CF         17.840060 CF           -30 dbm         17.840060 CF         17.840060 CF           -30 dbm         17.840060 CF         17.840060 CF           -20 dbm         18.8400 CF         19.8400 CF           -30 dbm         19.8400 CF         19.8400 CF           -40 dbm         19.8400 CF         19.8400 CF           -40 dbm         19.8400 CF         19.8400 CF           -40 dbm         19.8400 CF         19.8400 CF           -50 dbm         19.8400 CF         19.8400 CF           -50 dbm         19.8400 CF         19.8400 CF
-60 dBm Start 30.0 MHz Marker <u>Type</u> Ref Trc X-value M1 1 613.560		Stop 1.0 GHz	Start         30001 pts         Stop 26.5 GHz           Marker         Type         Ref         Trc         X-value         Y-value         Function         Function Result           M1         1         2.46023 GHz         12.76 dBm         Function         Function Result           M2         1         17.84006 GHz         -37.92 dBm         Function         Function Result