



BUREAU VERITAS

# Test Report No.: PSU-NQN2412110314RF01



BV 7Layers Communications Technology (Shenzhen) Co., Ltd

Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District Shenzhen, Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



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## TIME OF OCCUPANCY TEST RESULT

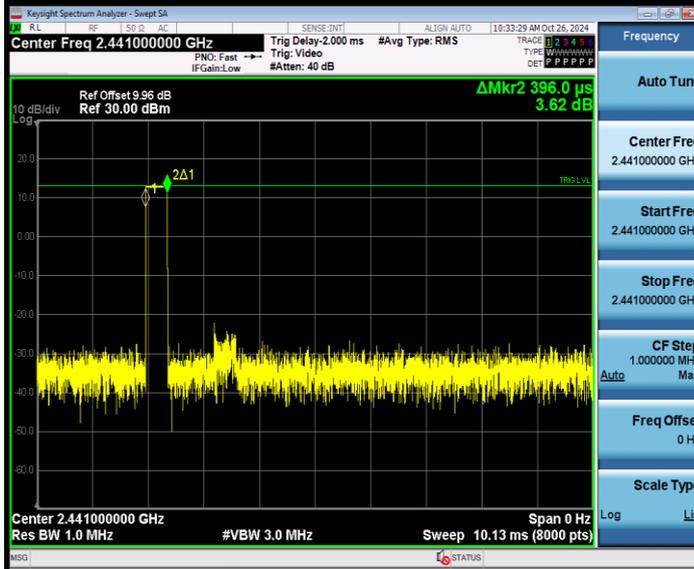
TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
DH1	Ant1	Hop	0.396	320	0.127	≤0.4	PASS
DH3	Ant1	Hop	1.653	160	0.264	≤0.4	PASS
DH5	Ant1	Hop	2.901	107	0.309	≤0.4	PASS
2DH1	Ant1	Hop	0.400	320	0.128	≤0.4	PASS
2DH3	Ant1	Hop	1.653	160	0.264	≤0.4	PASS
2DH5	Ant1	Hop	2.901	107	0.309	≤0.4	PASS
3DH1	Ant1	Hop	0.400	320	0.128	≤0.4	PASS
3DH3	Ant1	Hop	1.652	160	0.264	≤0.4	PASS
3DH5	Ant1	Hop	2.903	107	0.310	≤0.4	PASS

NOTE: TotalHops =[1600/( Send and receive Number\*79)]\*0.4\*79;

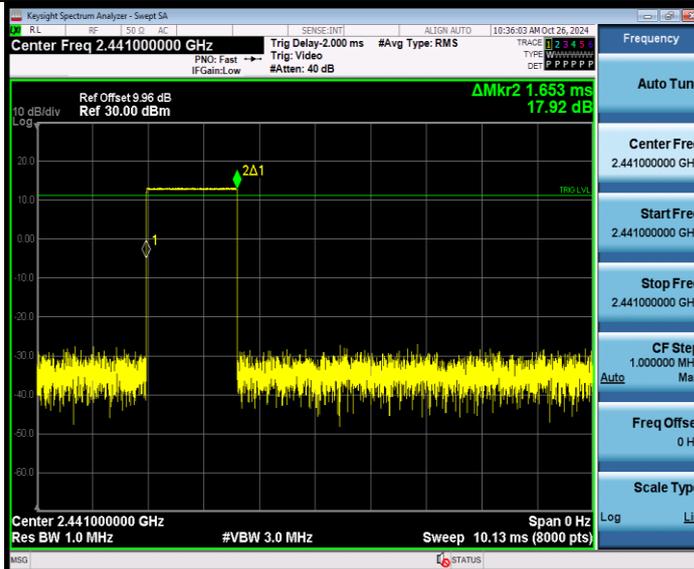
Send and receive Number : DH1/2DH1/3DH1=2; DH3/2DH3/3DH3=4; DH5/2DH5/3DH5=6

## TEST GRAPHS

DH1\_Ant1\_Hop



DH3\_Ant1\_Hop

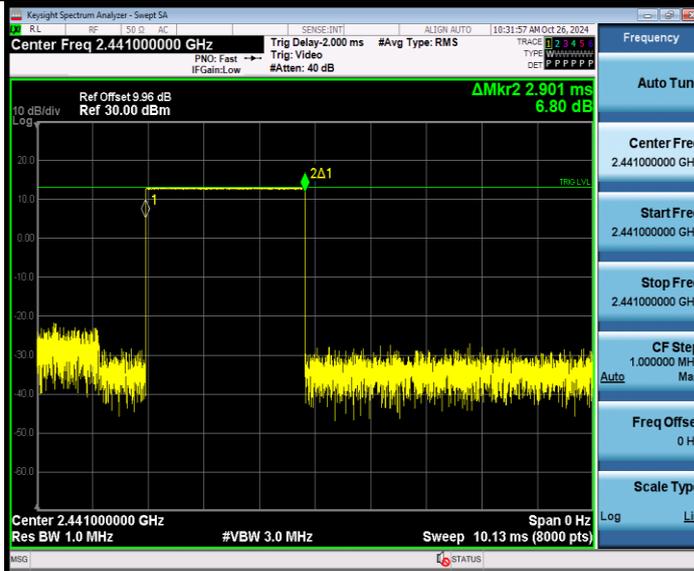


DH5\_Ant1\_Hop

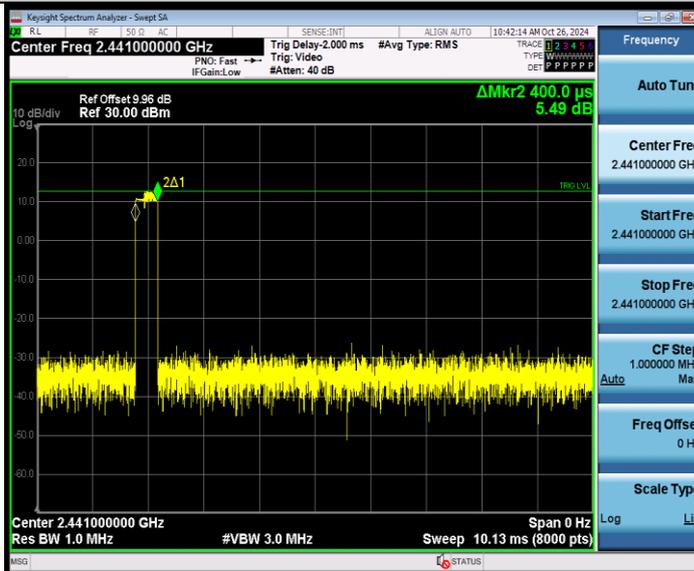


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2DH1\_Ant1\_Hop



2DH3\_Ant1\_Hop

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Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)

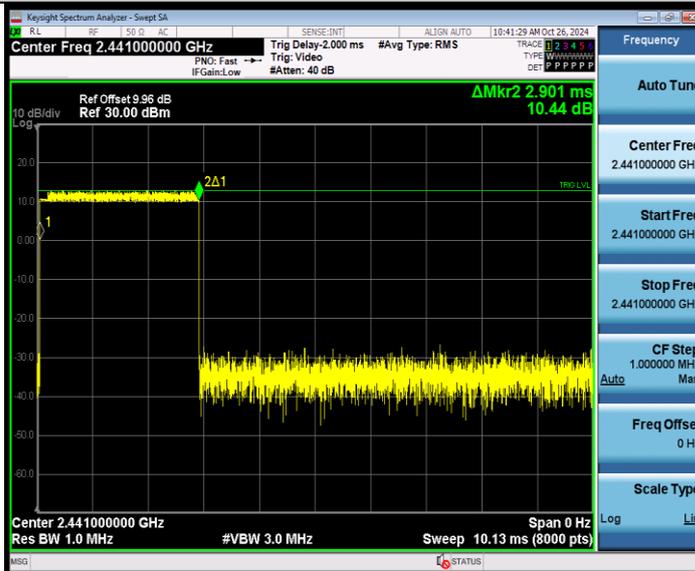


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2DH5\_Ant1\_Hop

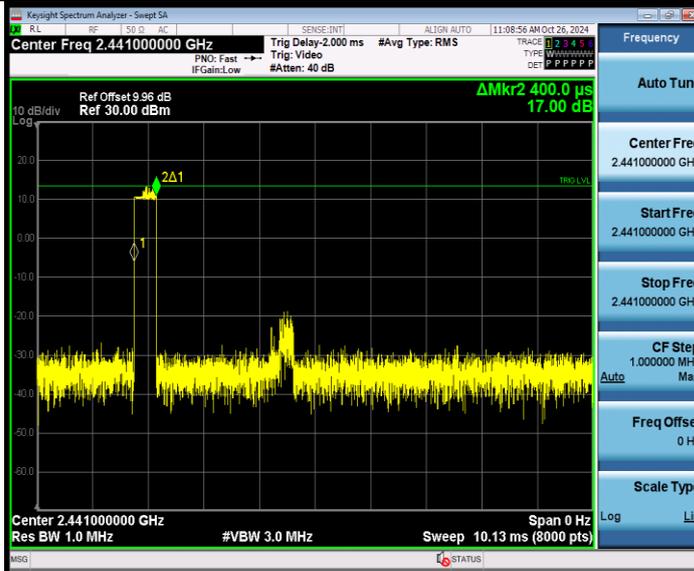


3DH1\_Ant1\_Hop



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# Test Report No.: PSU-NQN2412110314RF01



3DH3\_Ant1\_Hop



3DH5\_Ant1\_Hop

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## NUMBER OF HOPPING CHANNELS TEST RESULT

TestMode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
DH5	Ant1	Hop	79	$\geq 15$	PASS
2DH5	Ant1	Hop	79	$\geq 15$	PASS
3DH5	Ant1	Hop	79	$\geq 15$	PASS

## TEST GRAPHS

DH5\_Ant1\_Hop



2DH5\_Ant1\_Hop

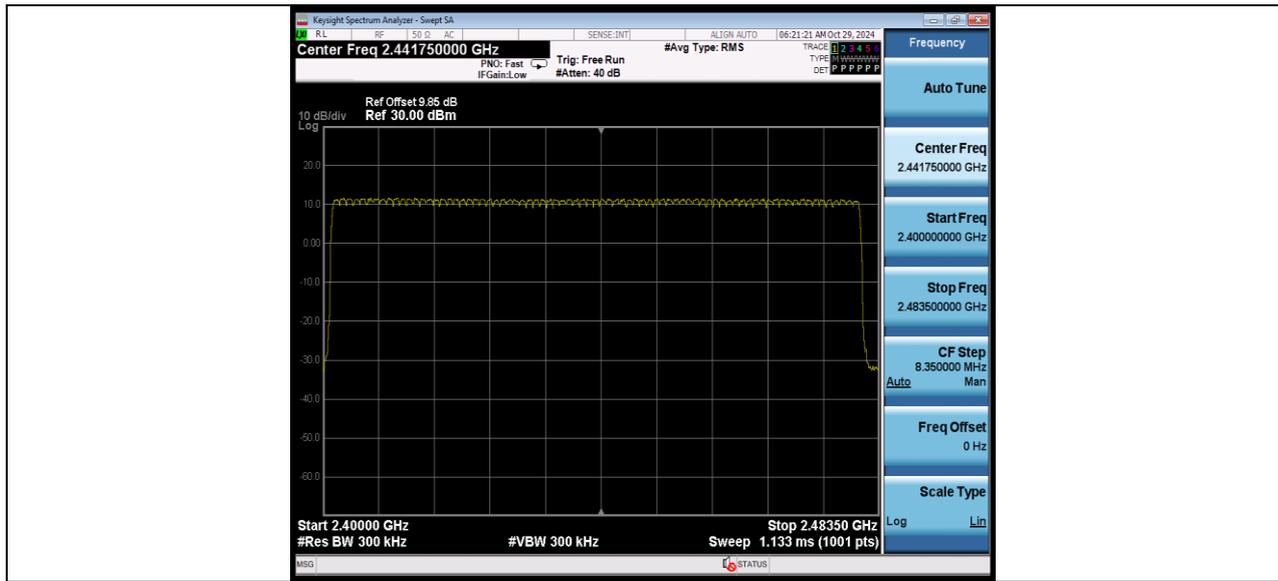


3DH5\_Ant1\_Hop



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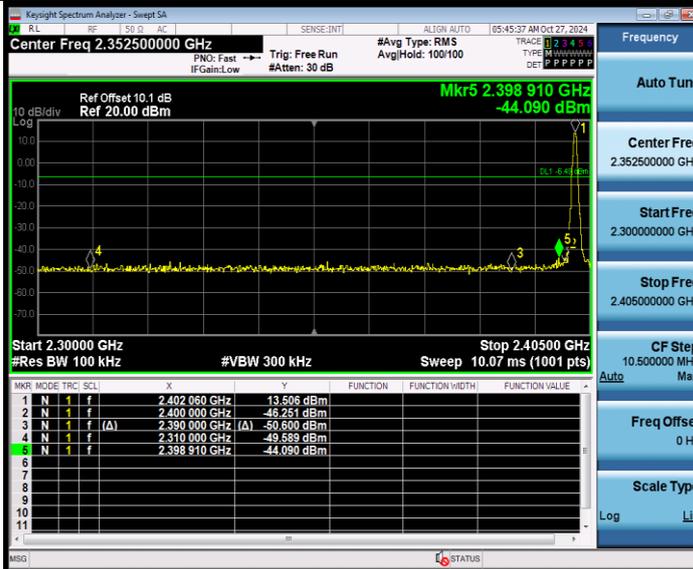
## BAND EDGE MEASUREMENTS

### TEST RESULT

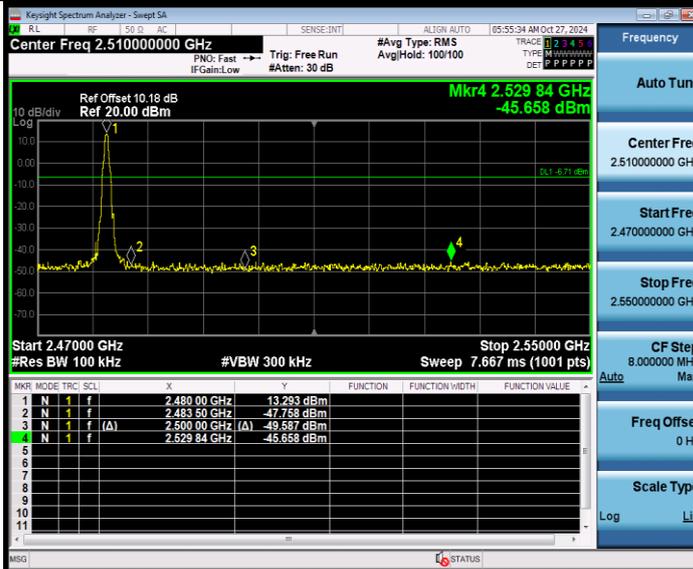
TestMode	Antenna	ChName	Frequency[MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	Low	2402	13.51	-44.09	≤-6.49	PASS
		High	2480	13.29	-45.66	≤-6.71	PASS
		Low	Hop_2402	12.78	-45.58	≤-7.22	PASS
		High	Hop_2480	12.46	-44.66	≤-7.55	PASS
2DH5	Ant1	Low	2402	10.92	-42.44	≤-9.08	PASS
		High	2480	10.88	-44.73	≤-9.13	PASS
		Low	Hop_2402	11.13	-44.84	≤-8.87	PASS
		High	Hop_2480	10.82	-44.75	≤-9.18	PASS
3DH5	Ant1	Low	2402	11.34	-43.55	≤-8.66	PASS
		High	2480	10.57	-45.11	≤-9.44	PASS
		Low	Hop_2402	9.62	-44.66	≤-10.38	PASS
		High	Hop_2480	11.09	-44.43	≤-8.91	PASS

TEST GRAPHS

DH5\_Ant1\_Low\_2402



DH5\_Ant1\_High\_2480

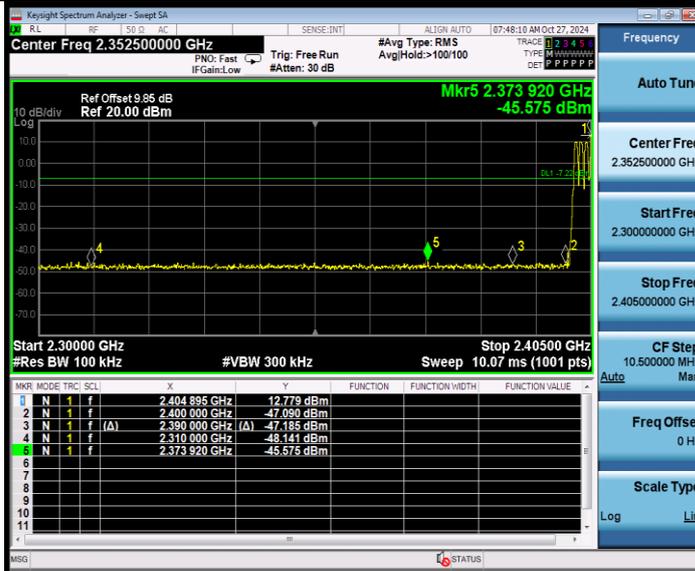


DH5\_Ant1\_Low\_Hop\_2402

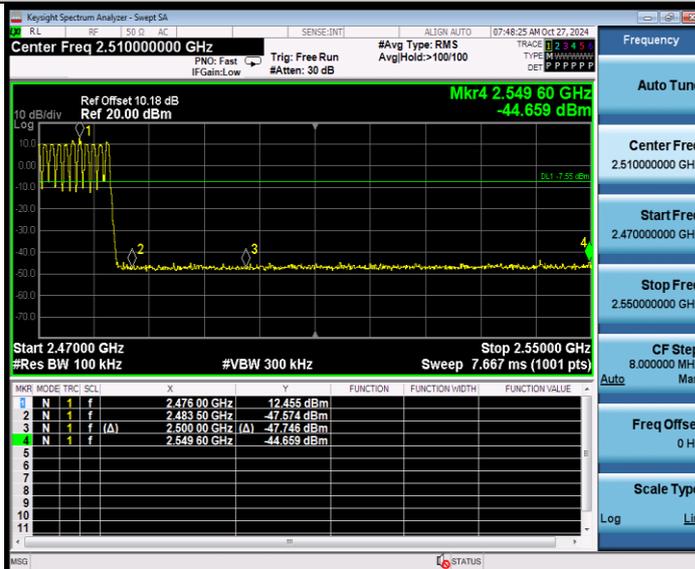


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# Test Report No.: PSU-NQN2412110314RF01



DH5\_Ant1\_High\_Hop\_2480

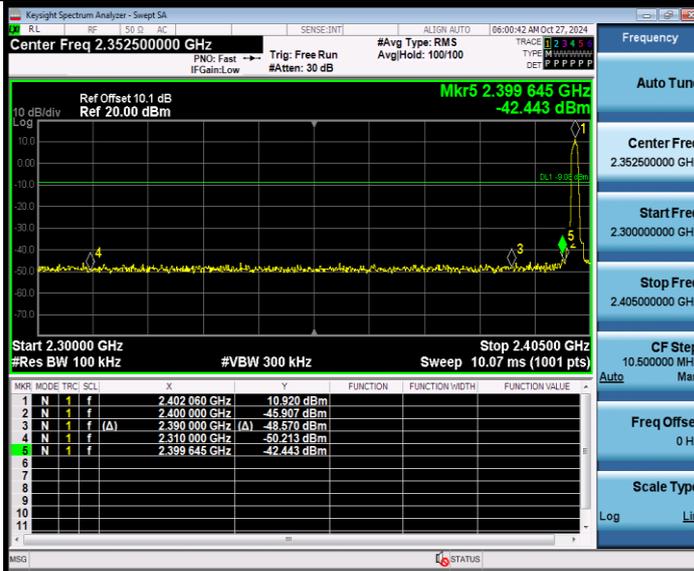


2DH5\_Ant1\_Low\_2402

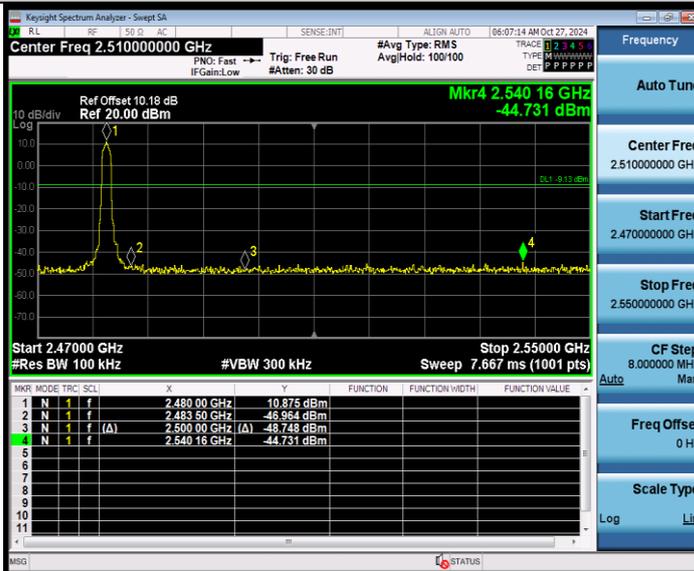


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2DH5\_Ant1\_High\_2480



2DH5\_Ant1\_Low\_Hop\_2402

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

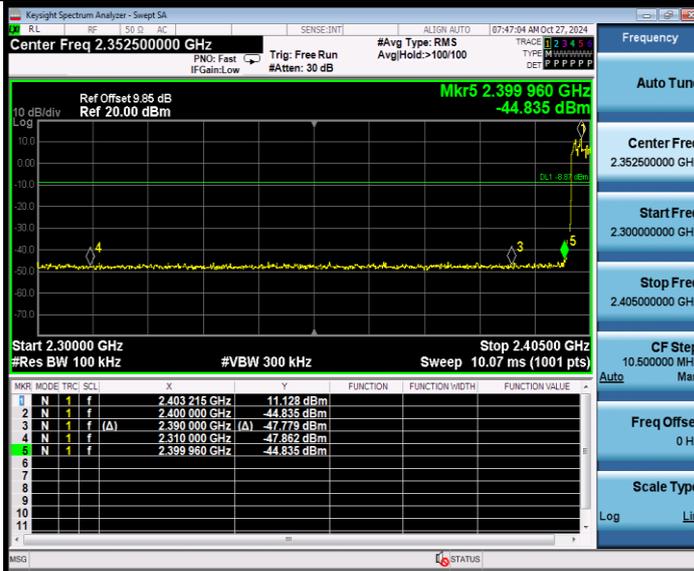
Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District Shenzhen, Guangdong, People's Republic of China

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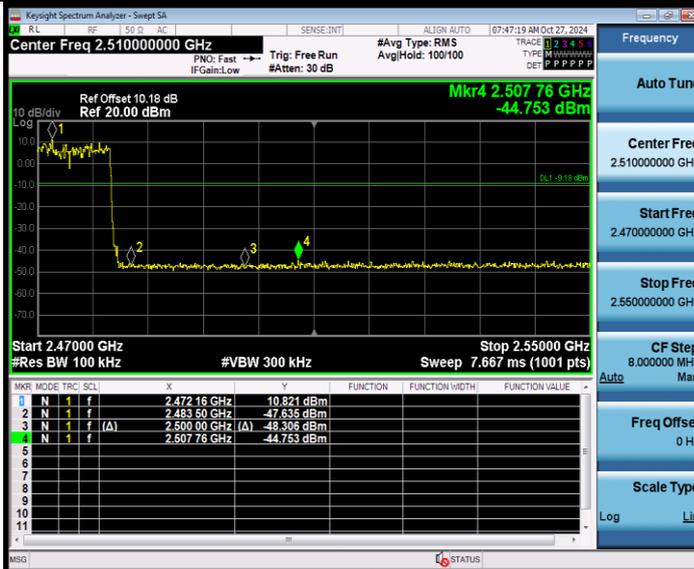


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# Test Report No.: PSU-NQN2412110314RF01



2DH5\_Ant1\_High\_Hop\_2480

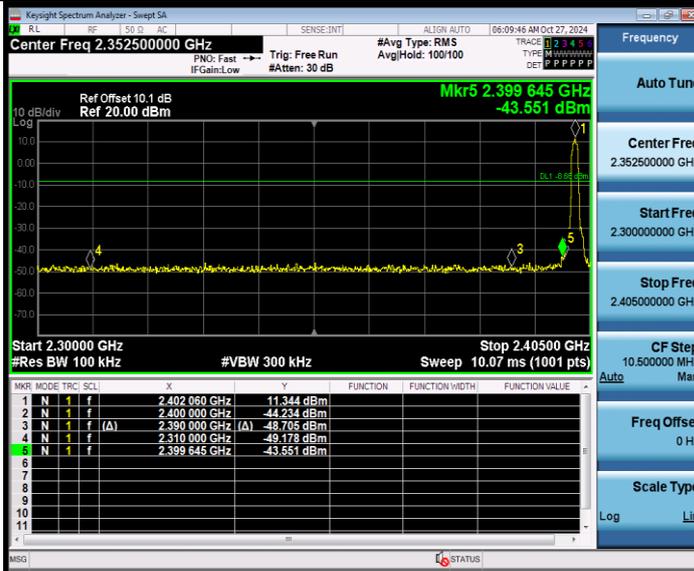


3DH5\_Ant1\_Low\_2402

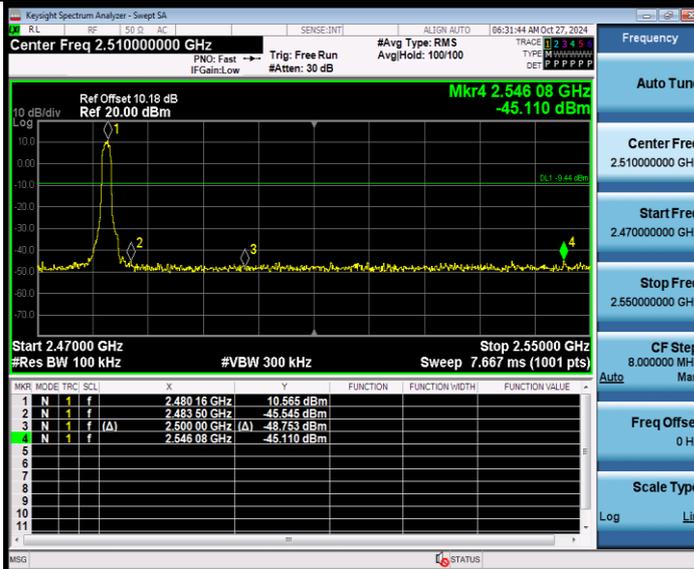


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3DH5\_Ant1\_High\_2480

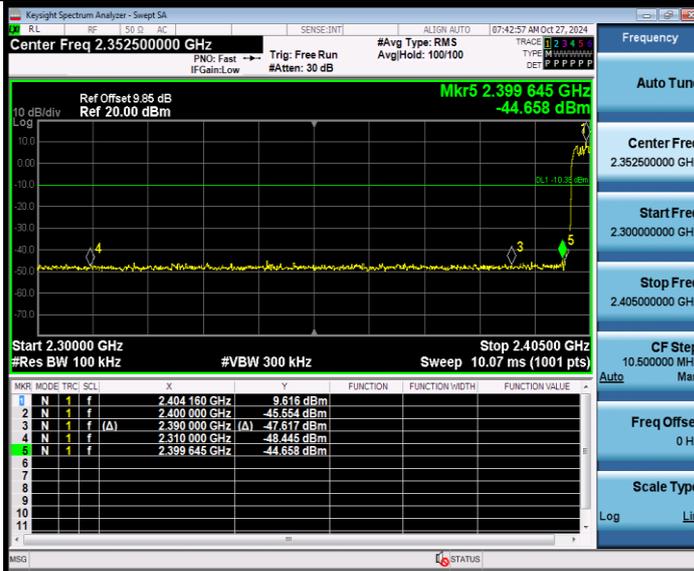


3DH5\_Ant1\_Low\_Hop\_2402

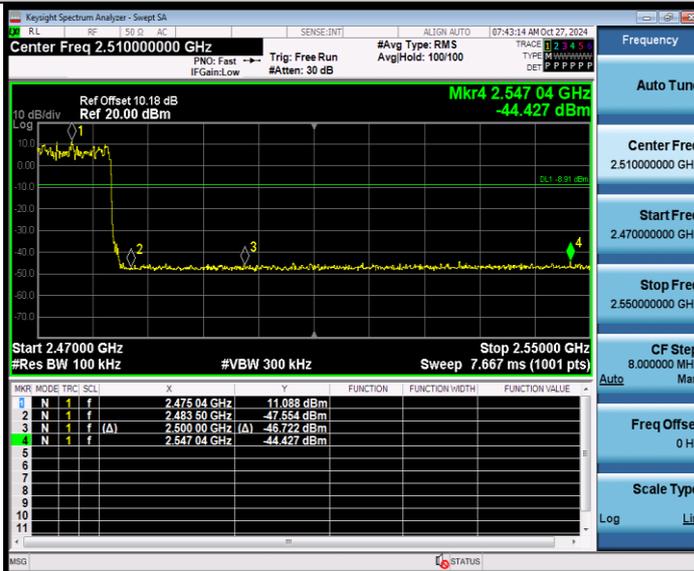


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3DH5\_Ant1\_High\_Hop\_2480





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VERITAS**

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## CONDUCTED SPURIOUS EMISSION TEST RESULT

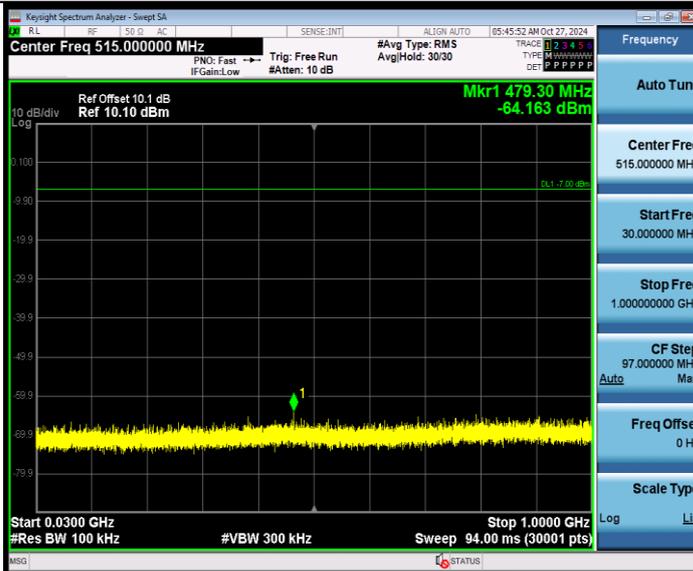
TestMode	Antenna	Frequency[MHz]	FreqRange [MHz]	RefLevel [dBm]	Result [dBm]	Limit [dBm]	Verdict
DH5	Ant1	2402	Reference	13.00	13.00	---	PASS
			30~1000	13.00	-64.16	≤-7	PASS
			1000~26500	13.00	-45.57	≤-7	PASS
		2441	Reference	12.55	12.55	---	PASS
			30~1000	12.55	-64.78	≤-7.45	PASS
			1000~26500	12.55	-45.36	≤-7.45	PASS
		2480	Reference	13.47	13.47	---	PASS
			30~1000	13.47	-63.93	≤-6.53	PASS
			1000~26500	13.47	-45.56	≤-6.53	PASS
2DH5	Ant1	2402	Reference	8.68	8.68	---	PASS
			30~1000	8.68	-64.96	≤-11.32	PASS
			1000~26500	8.68	-44.82	≤-11.32	PASS
		2441	Reference	10.50	10.50	---	PASS
			30~1000	10.50	-64.96	≤-9.5	PASS
			1000~26500	10.50	-45.75	≤-9.5	PASS
		2480	Reference	8.87	8.87	---	PASS
			30~1000	8.87	-64.32	≤-11.13	PASS
			1000~26500	8.87	-44.64	≤-11.13	PASS
3DH5	Ant1	2402	Reference	8.90	8.90	---	PASS
			30~1000	8.90	-64.72	≤-11.1	PASS
			1000~26500	8.90	-45.37	≤-11.1	PASS
		2441	Reference	9.06	9.06	---	PASS
			30~1000	9.06	-63.83	≤-10.94	PASS
			1000~26500	9.06	-45.93	≤-10.94	PASS
		2480	Reference	9.06	9.06	---	PASS
			30~1000	9.06	-64	≤-10.94	PASS
			1000~26500	9.06	-45.49	≤-10.94	PASS

### TEST GRAPHS

DH5\_Ant1\_2402\_0~Reference



DH5\_Ant1\_2402\_30~1000



DH5\_Ant1\_2402\_1000~26500



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# Test Report No.: PSU-NQN2412110314RF01



DH5\_Ant1\_2441\_0~Reference



DH5\_Ant1\_2441\_30~1000

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

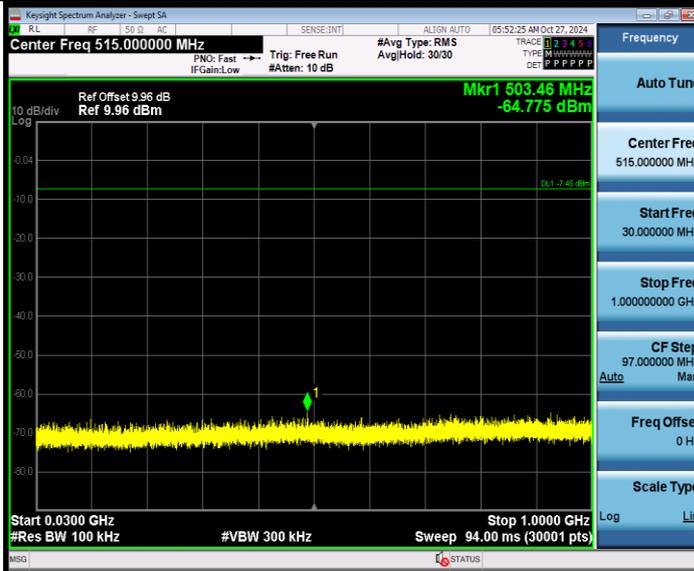
Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District Shenzhen, Guangdong, People's Republic of China

Tel: +86 755 8869 6566  
Fax: +86 755 8869 6577  
Email: [customerservice.sw@bureauveritas.com](mailto:customerservice.sw@bureauveritas.com)



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DH5\_Ant1\_2441\_1000~26500



DH5\_Ant1\_2480\_0~Reference

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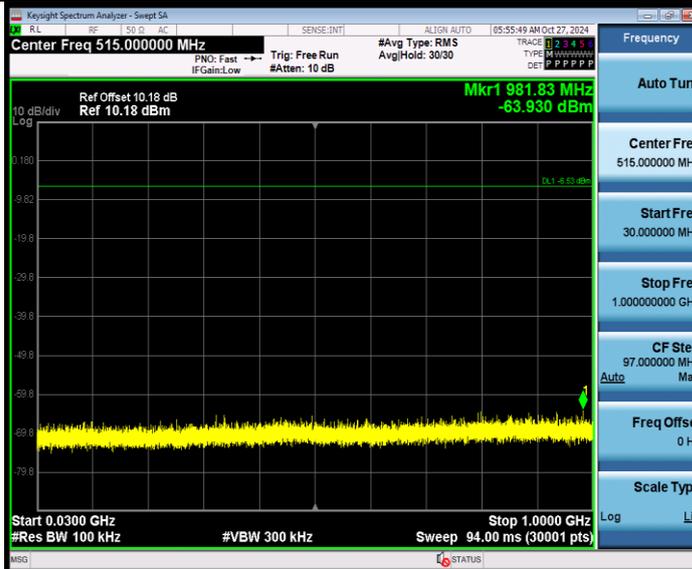


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Test Report No.: PSU-NQN2412110314RF01



DH5\_Ant1\_2480\_30~1000



DH5\_Ant1\_2480\_1000~26500



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# Test Report No.: PSU-NQN2412110314RF01



2DH5\_Ant1\_2402\_0~Reference



2DH5\_Ant1\_2402\_30~1000

BV 7Layers Communications Technology (Shenzhen) Co., Ltd

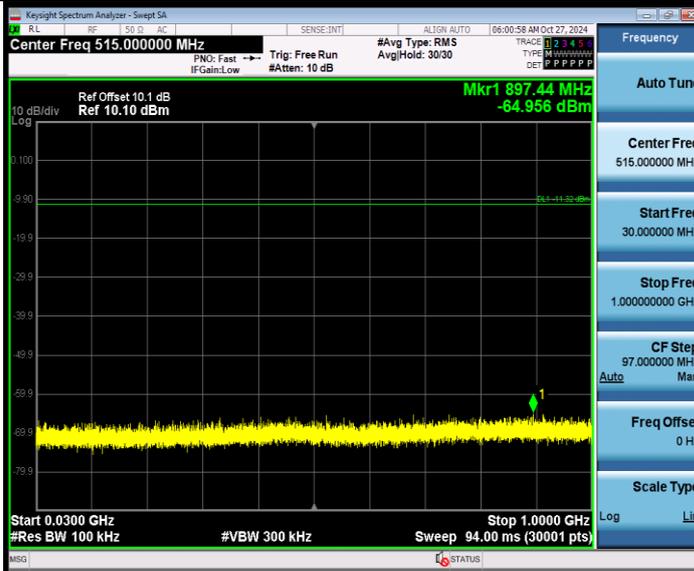
Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District Shenzhen, Guangdong, People's Republic of China

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2DH5\_Ant1\_2402\_1000~26500



2DH5\_Ant1\_2441\_0~Reference

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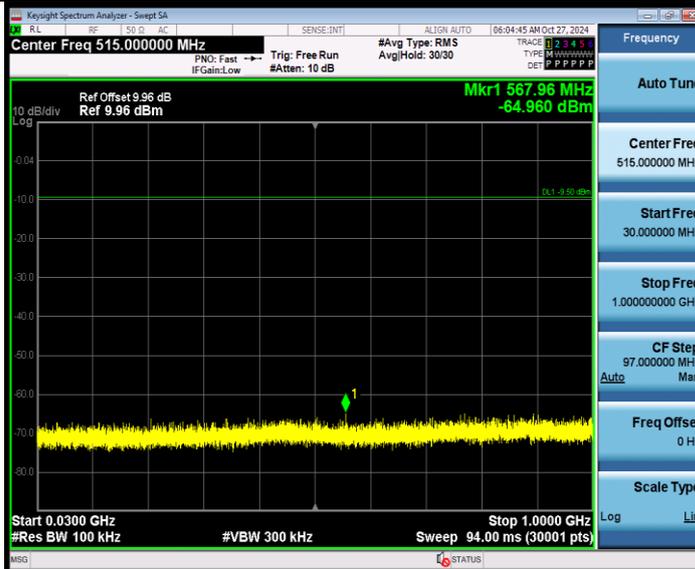


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2DH5\_Ant1\_2441\_30~1000



2DH5\_Ant1\_2441\_1000~26500



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# Test Report No.: PSU-NQN2412110314RF01



2DH5\_Ant1\_2480\_0~Reference



2DH5\_Ant1\_2480\_30~1000

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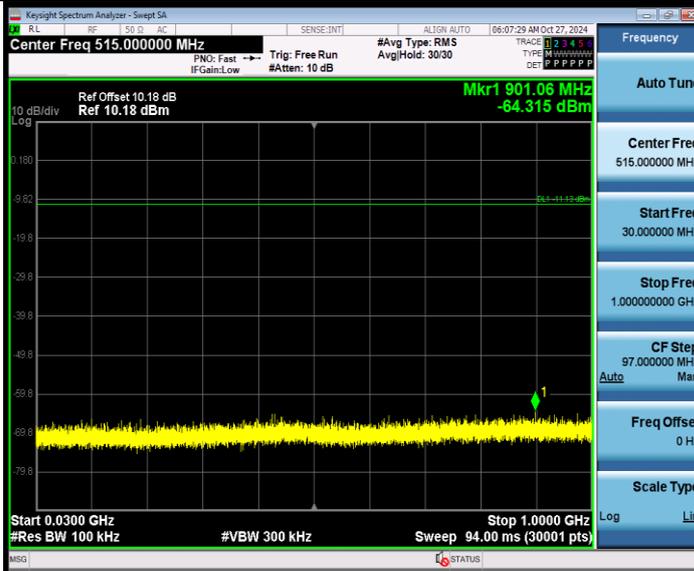
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2DH5\_Ant1\_2480\_1000~26500



3DH5\_Ant1\_2402\_0~Reference

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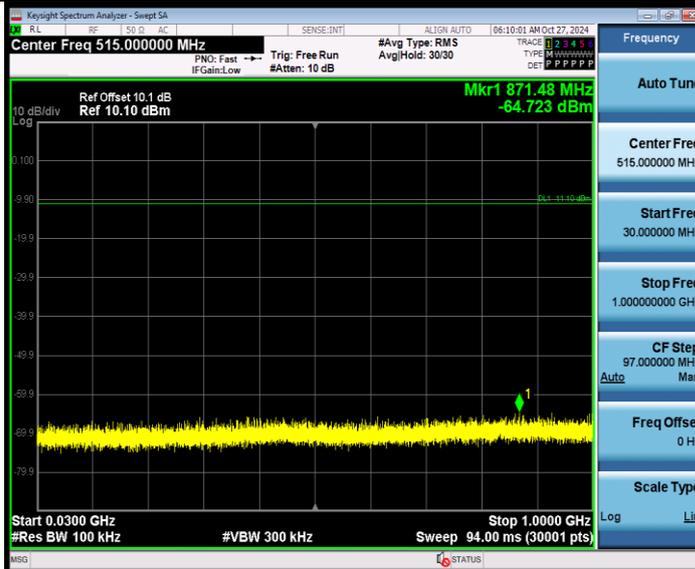


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3DH5\_Ant1\_2402\_30~1000



3DH5\_Ant1\_2402\_1000~26500

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3DH5\_Ant1\_2441\_30~1000

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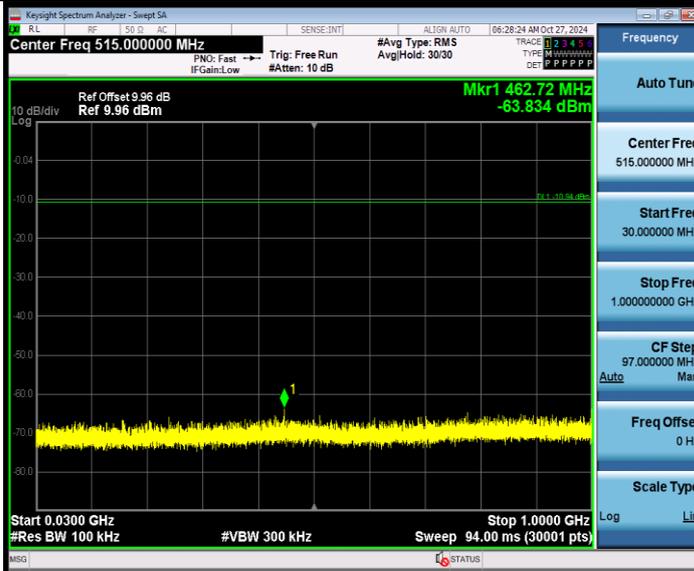
Room B37, Warehouse A5, No.3 Chiwan 4th Road, Zhaoshang Street, Nanshan District Shenzhen, Guangdong, People's Republic of China

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3DH5\_Ant1\_2441\_1000~26500



3DH5\_Ant1\_2480\_0~Reference

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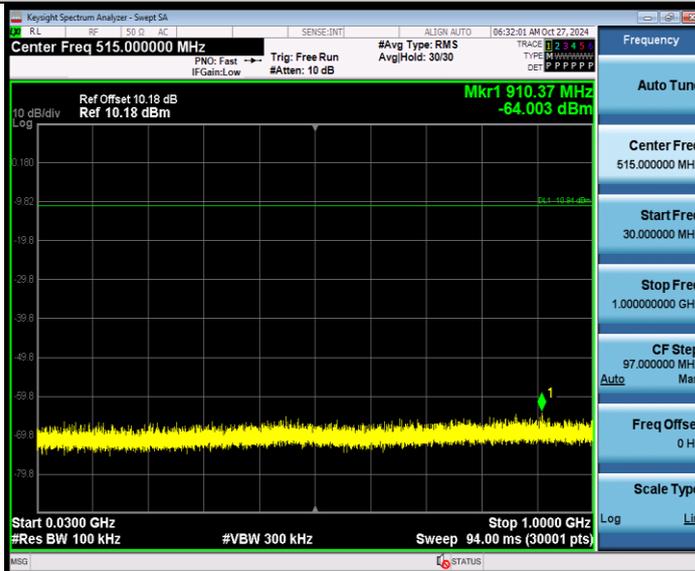


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3DH5\_Ant1\_2480\_30~1000



3DH5\_Ant1\_2480\_1000~26500

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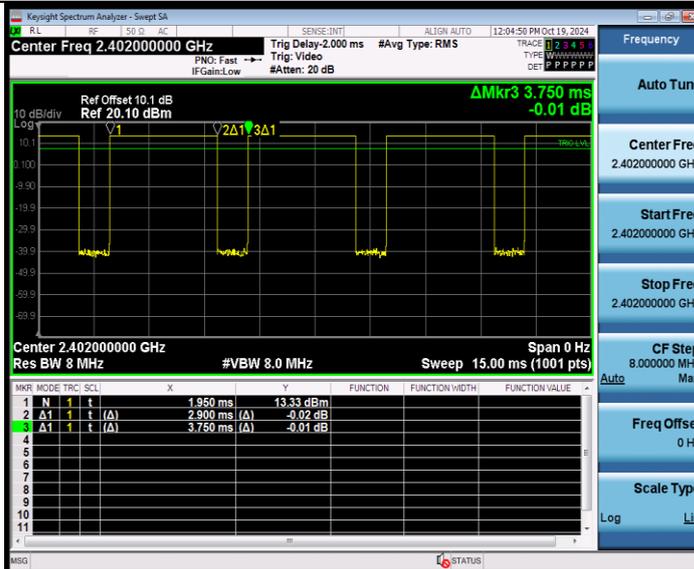
## DUTY CYCLE

### TEST RESULT

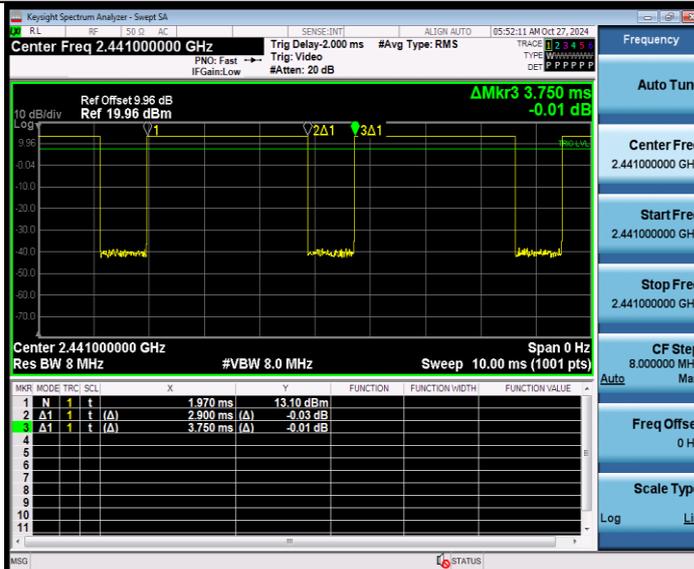
TestMode	Antenna	Frequency[M Hz]	ON Time [ms]	Period [ms]	Duty Cycle [%]	Duty Cycle Factor[dB]
DH5	Ant1	2402	2.90	3.75	77.33	1.12
		2441	2.90	3.75	77.33	1.12
		2480	2.90	3.75	77.33	1.12
2DH5	Ant1	2402	2.89	3.75	77.07	1.13
		2441	2.90	3.75	77.33	1.12
		2480	2.90	3.75	77.33	1.12
3DH5	Ant1	2402	2.91	3.76	77.39	1.11
		2441	2.91	3.75	77.60	1.10
		2480	2.90	3.75	77.33	1.12

### TEST GRAPHS

DH5\_Ant1\_2402



DH5\_Ant1\_2441



DH5\_Ant1\_2480