

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
 Data File : VL042423.D
 Acq On : 28 Apr 2025 13:26
 Operator : SY/MD
 Sample : Q1665-19
 Misc : 400mL/MSVOA_L
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-2-3242025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

Signal : TIC: VL042423.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	1.428	410	414	420	rBV	4495721	5123508	100.00%	19.950%
2	1.467	422	426	429	rVV	1832964	975350	19.04%	3.798%
3	1.486	429	432	438	rVB2	613219	301988	5.89%	1.176%
4	1.557	450	454	459	rBV	3609938	1807242	35.27%	7.037%
5	1.619	469	473	478	rVB	2373472	1330465	25.97%	5.181%
6	1.719	500	504	511	rBV	1527919	931921	18.19%	3.629%
7	1.842	535	542	548	rBV2	1566169	1482933	28.94%	5.774%
8	1.884	548	555	562	rBV	944008	651021	12.71%	2.535%
9	1.962	575	579	583	rVB	86254	57009	1.11%	0.222%
10	2.040	599	603	607	rBV	187714	158732	3.10%	0.618%
11	2.273	670	675	681	rVB	182031	142156	2.77%	0.554%
12	2.409	711	717	725	rBV	173586	182129	3.55%	0.709%
13	2.470	733	736	742	rVB3	60904	58096	1.13%	0.226%
14	2.506	742	747	755	rVB2	116405	105594	2.06%	0.411%
15	2.558	757	763	772	rVB	87532	81347	1.59%	0.317%
16	2.784	825	833	840	rBV	516118	534680	10.44%	2.082%
17	2.823	840	845	859	rVB2	235170	284012	5.54%	1.106%
18	3.221	959	968	977	rVB5	44401	70927	1.38%	0.276%
19	3.655	1090	1102	1106	rBV4	33278	53611	1.05%	0.209%
20	3.684	1106	1111	1125	rVB	157430	231764	4.52%	0.902%
21	3.956	1183	1195	1209	rBV	699794	1082156	21.12%	4.214%
22	4.050	1213	1224	1232	rBV4	50344	89508	1.75%	0.349%
23	4.254	1275	1287	1302	rBV7	71588	161577	3.15%	0.629%
24	4.632	1391	1404	1405	rBV2	45599	56520	1.10%	0.220%
25	4.639	1405	1406	1419	rVB2	52966	59321	1.16%	0.231%
26	4.972	1500	1509	1521	rBV5	26372	54274	1.06%	0.211%
27	6.843	2069	2087	2100	rBV3	143454	340530	6.65%	1.326%
28	6.927	2100	2113	2131	rVB2	283552	584714	11.41%	2.277%
29	7.684	2336	2347	2362	rVB4	106187	179490	3.50%	0.699%
30	8.296	2529	2536	2549	rVB7	41567	74529	1.45%	0.290%
31	8.879	2700	2716	2727	rBV2	882854	1294323	25.26%	5.040%
32	9.351	2853	2862	2871	rBV2	63092	89858	1.75%	0.350%
33	9.526	2907	2916	2933	rVB2	105769	213723	4.17%	0.832%
34	9.736	2965	2981	2992	rBV	2325820	3071122	59.94%	11.958%
35	9.866	3011	3021	3030	rVB7	36917	54202	1.06%	0.211%
36	9.934	3030	3042	3047	rBV2	132624	190328	3.71%	0.741%

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Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

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37	9.956	3047	3049	3060	rVV3	70912	98702	1.93%	0.384%
38	10.018	3060	3068	3077	rVB4	42460	57642	1.13%	0.224%
39	10.374	3163	3178	3189	rBV	1136048	1419821	27.71%	5.529%
40	10.737	3282	3290	3296	rBV6	38021	53477	1.04%	0.208%
41	10.856	3319	3327	3335	rBV	227237	293730	5.73%	1.144%
42	10.908	3335	3343	3355	rVB	408915	482281	9.41%	1.878%
43	11.093	3392	3400	3405	rBV2	53660	62175	1.21%	0.242%
44	11.423	3497	3502	3511	rVB4	43658	53790	1.05%	0.209%
45	11.533	3529	3536	3546	rBV2	80343	98813	1.93%	0.385%
46	11.591	3546	3554	3559	rBV5	52400	58667	1.15%	0.228%
47	11.720	3588	3594	3598	rBV2	50212	59182	1.16%	0.230%
48	11.772	3598	3610	3623	rVB2	488845	665778	12.99%	2.592%
49	12.041	3687	3693	3701	rVB3	106189	116964	2.28%	0.455%

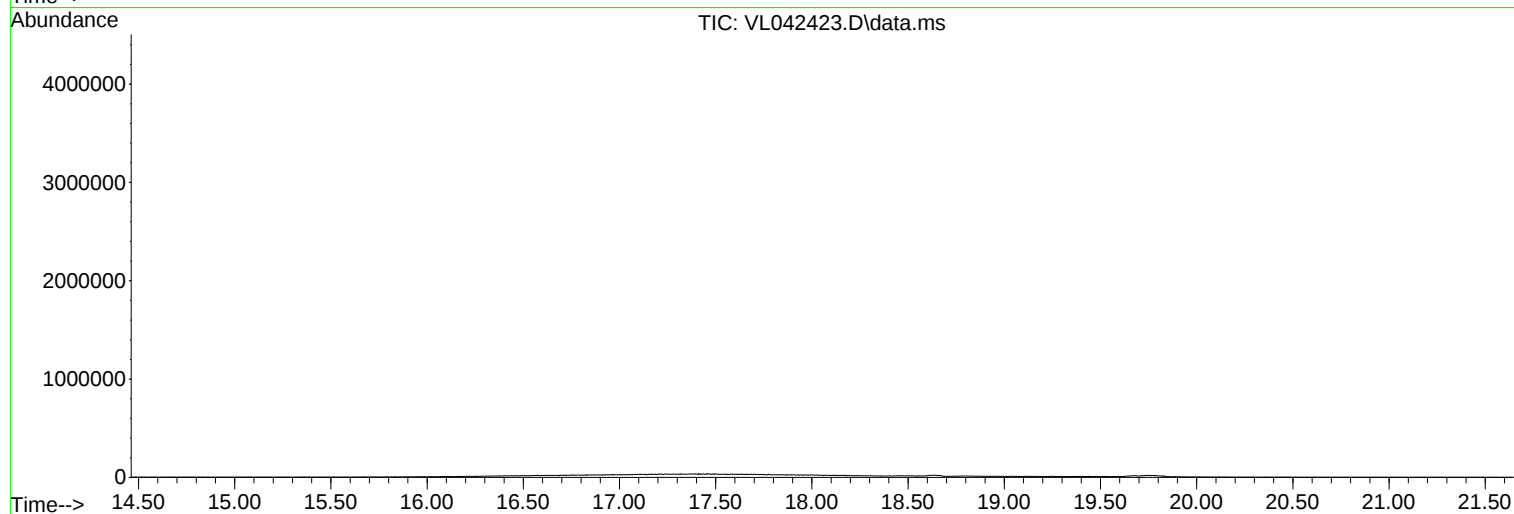
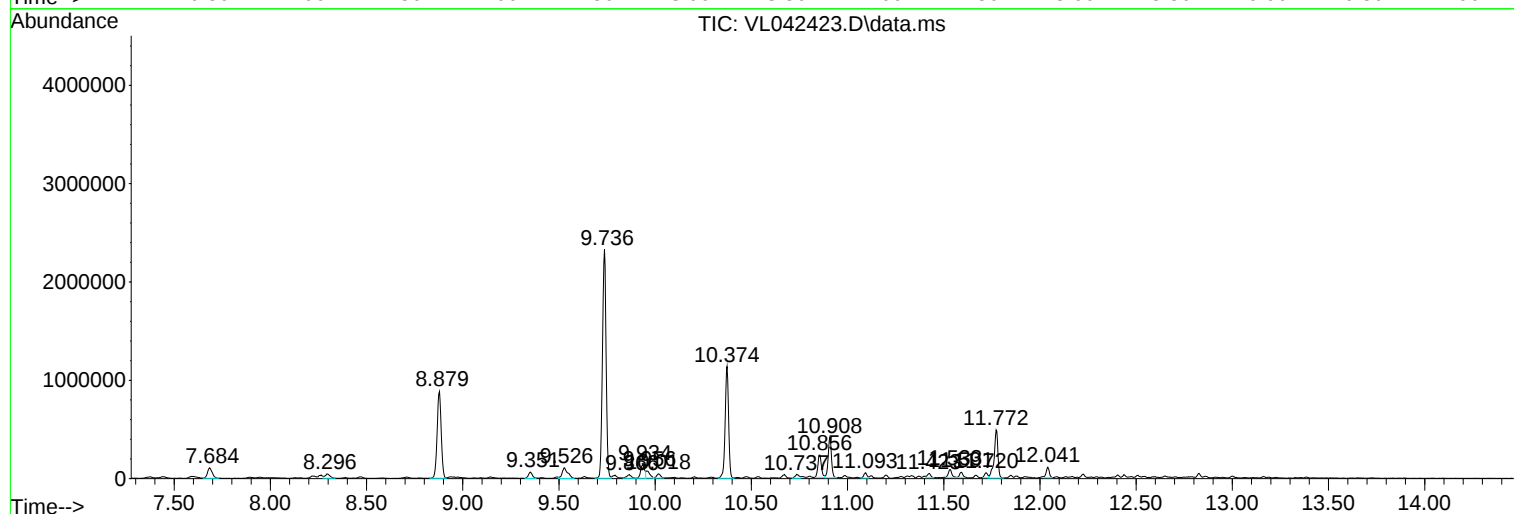
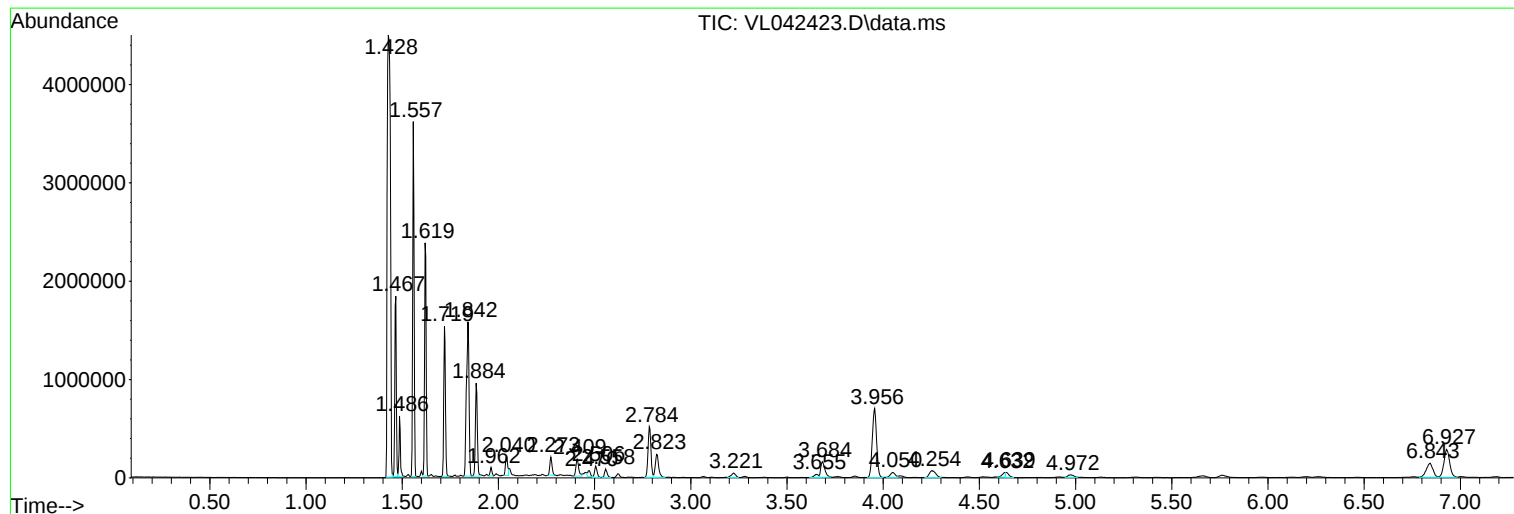
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MSVOA_L
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



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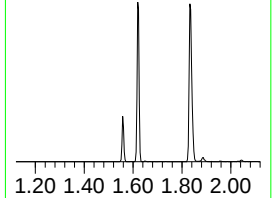
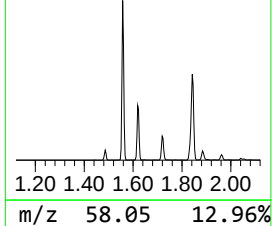
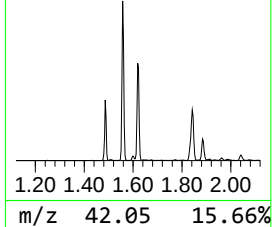
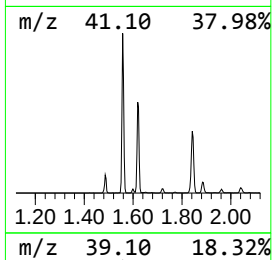
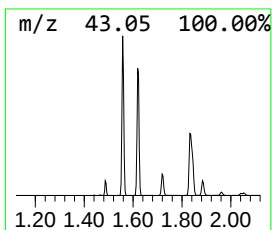
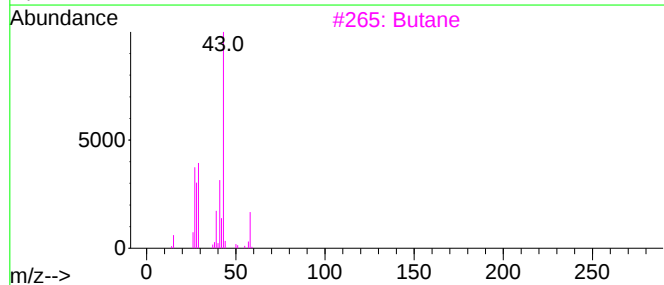
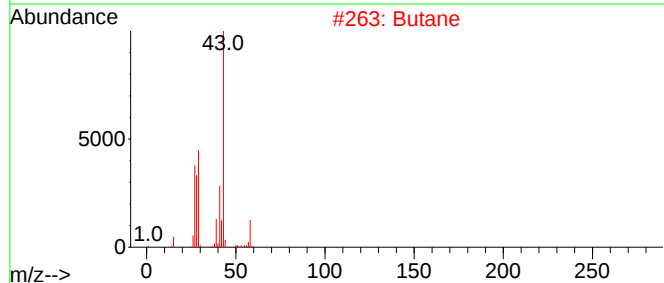
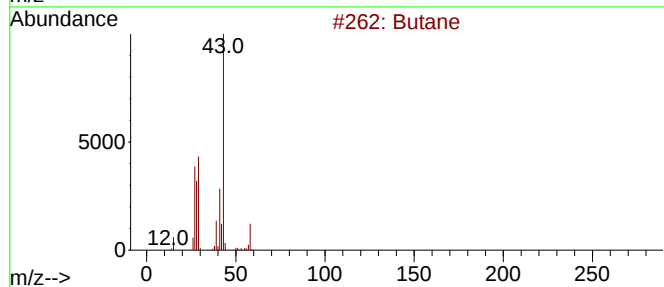
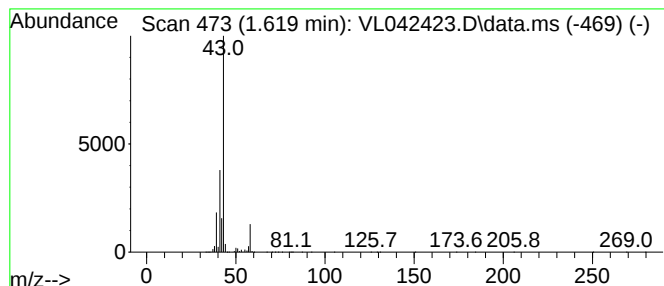
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 2 Butane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.619	24.88 ppbv	1330470	Bromochloromethane	2.784

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane			58	C4H10	000106-97-8	80
2	Butane			58	C4H10	000106-97-8	80
3	Butane			58	C4H10	000106-97-8	72
4	Butane			58	C4H10	000106-97-8	58
5	Isobutane			58	C4H10	000075-28-5	9



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Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-3242025

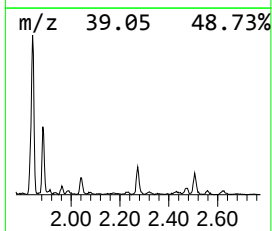
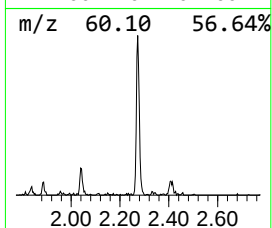
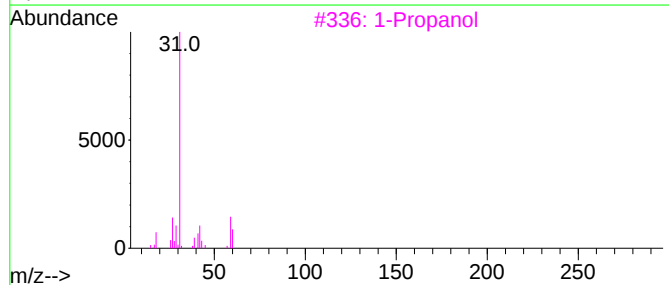
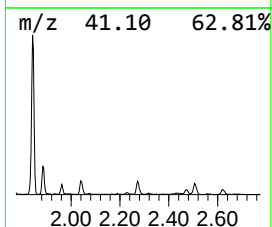
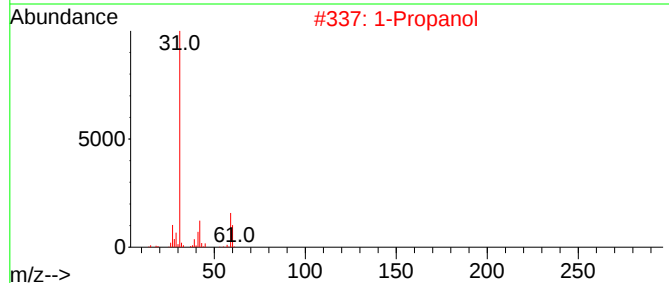
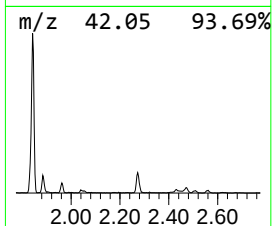
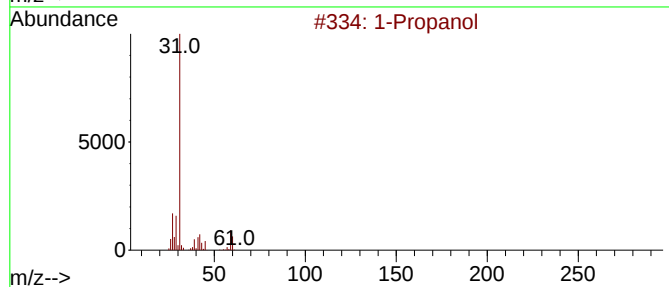
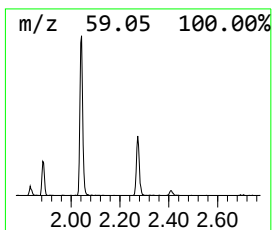
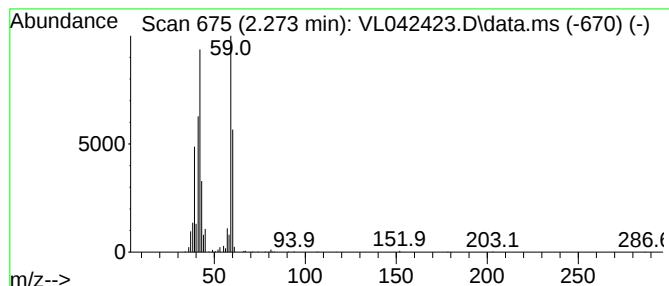
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 3 1-Propanol Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.273	2.66 ppbv	142156	Bromochloromethane	2.784

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-Propanol		60	C3H8O	000071-23-8	59
2	1-Propanol		60	C3H8O	000071-23-8	53
3	1-Propanol		60	C3H8O	000071-23-8	53
4	1-Propanol		60	C3H8O	000071-23-8	53
5	1-Propanol		60	C3H8O	000071-23-8	46



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Misc : 400mL/MSVOA_L
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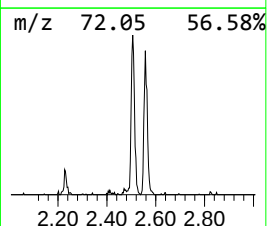
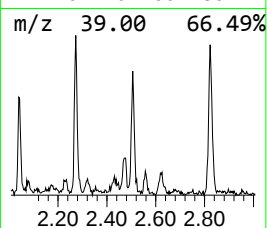
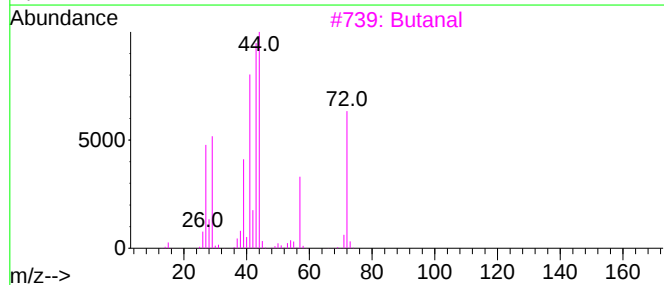
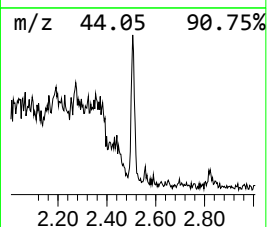
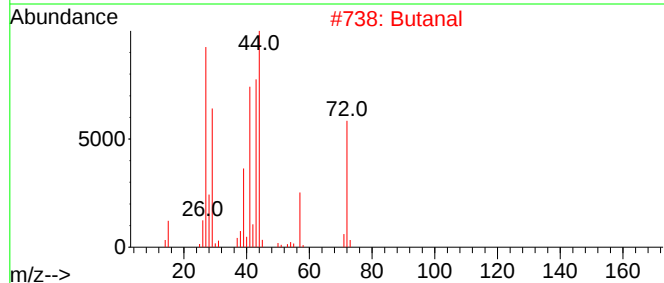
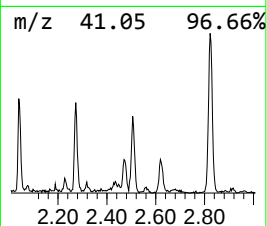
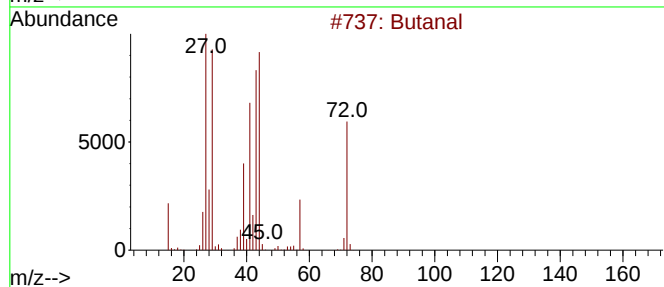
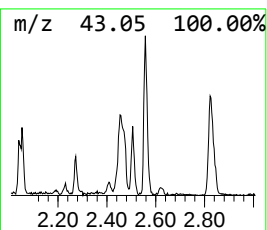
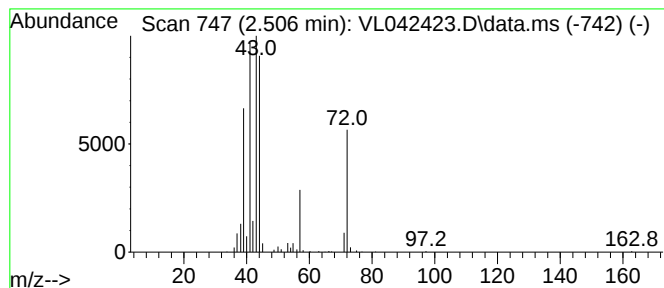
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TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 5 Butanal Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.506	1.97 ppbv	105594	Bromochloromethane	2.784

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Butanal	72	C4H8O	000123-72-8	86
2			Butanal	72	C4H8O	000123-72-8	72
3			Butanal	72	C4H8O	000123-72-8	59
4			Butanal	72	C4H8O	000123-72-8	50
5			Ethene, ethoxy-	72	C4H8O	000109-92-2	50



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Instrument :
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ClientSampleId :
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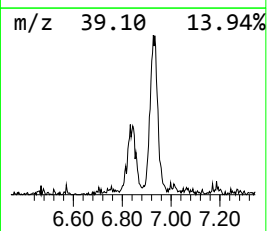
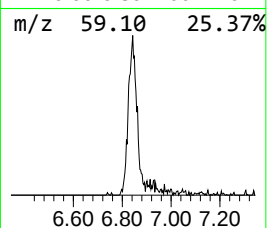
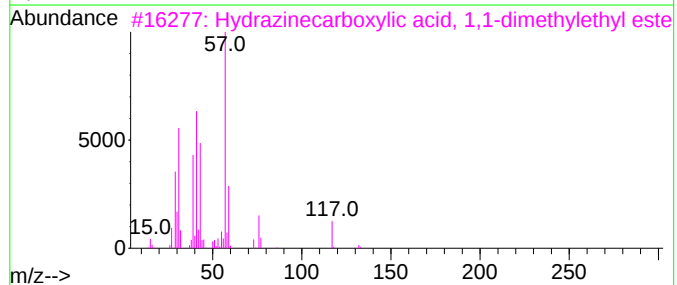
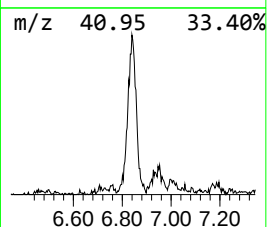
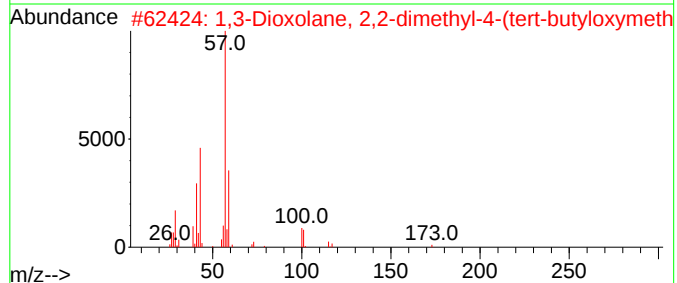
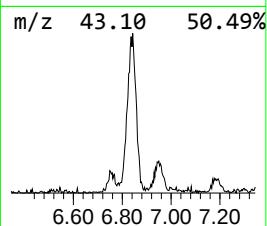
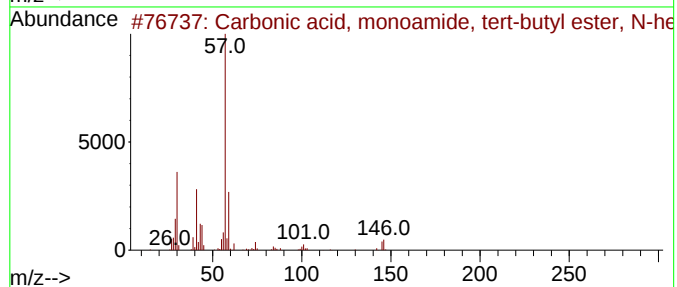
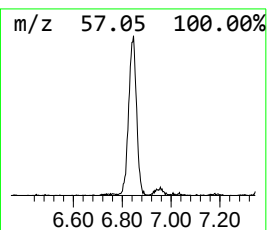
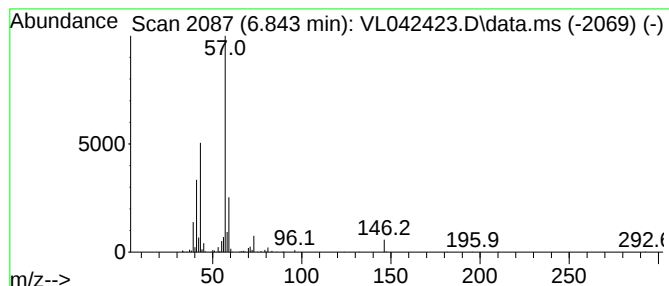
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TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 6 Carbonic acid, monoamide, t... Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
6.843	2.63 ppbv	340530	Chlorobenzene-d5	8.879

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Carbonic acid, monoamide, tert-b...	201	C11H23NO2	1000420-59-4	50
2			1,3-Dioxolane, 2,2-dimethyl-4-(t...	188	C10H20O3	1000381-76-2	50
3			Hydrazinecarboxylic acid, 1,1-di...	132	C5H12N2O2	000870-46-2	39
4			Di-tert-butyl peroxide	146	C8H18O2	000110-05-4	32
5			Di-tert-butyl peroxide	146	C8H18O2	000110-05-4	27



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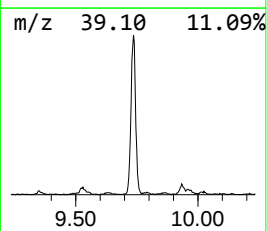
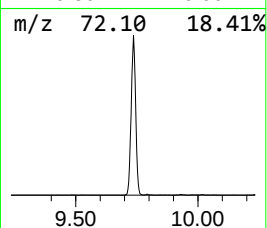
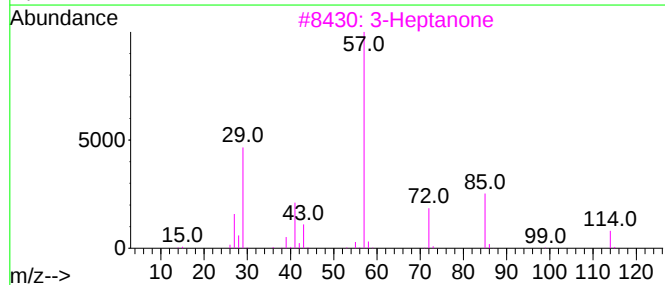
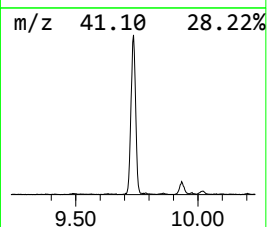
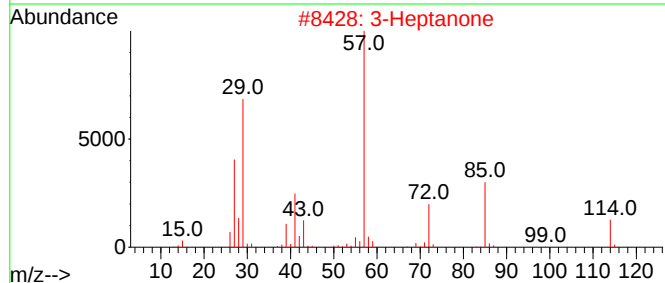
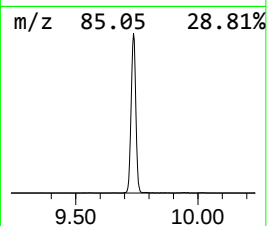
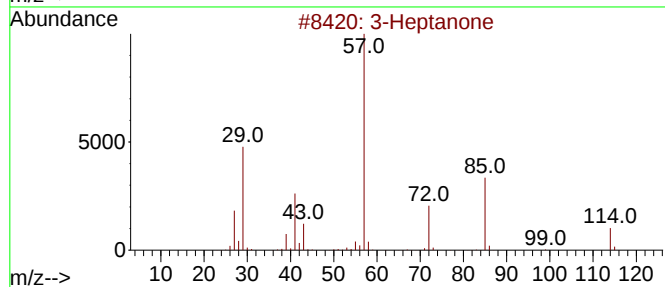
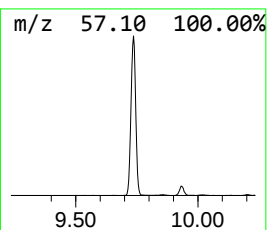
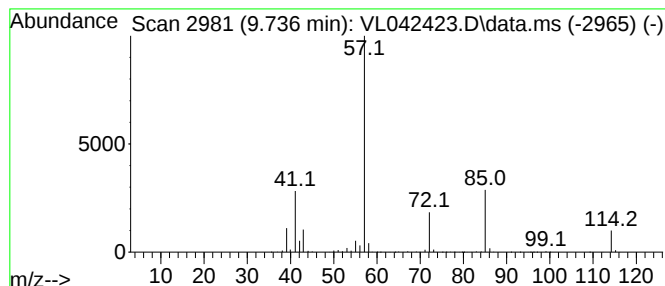
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 7 3-Heptanone Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.736	23.73 ppbv	3071120	Chlorobenzene-d5	8.879

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			3-Heptanone	114	C7H14O	000106-35-4	91
2			3-Heptanone	114	C7H14O	000106-35-4	91
3			3-Heptanone	114	C7H14O	000106-35-4	90
4			3-Heptanone	114	C7H14O	000106-35-4	80
5			3-Hexanone, 5-methyl-	114	C7H14O	000623-56-3	64



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042423.D
Acq On : 28 Apr 2025 13:26
Operator : SY/MD
Sample : Q1665-19
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-3242025

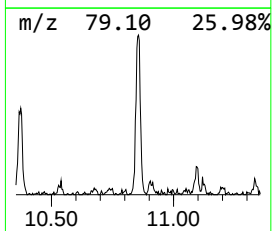
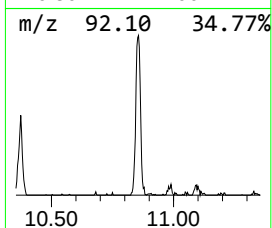
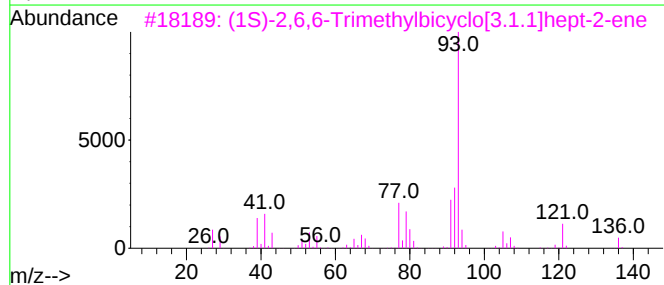
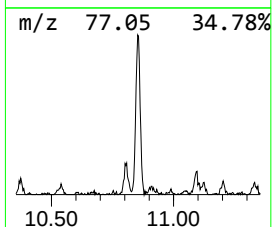
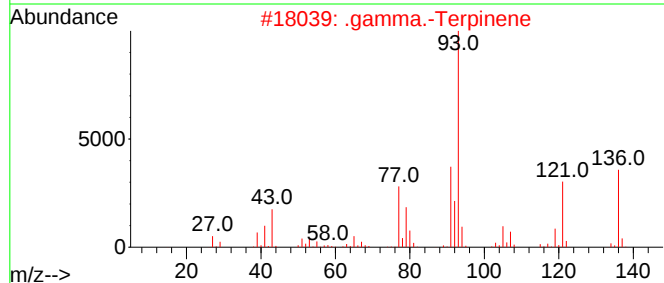
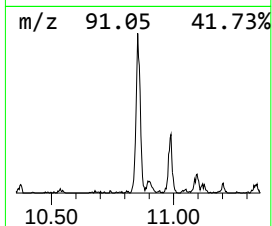
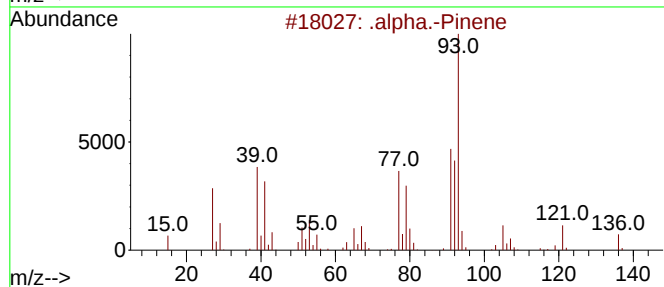
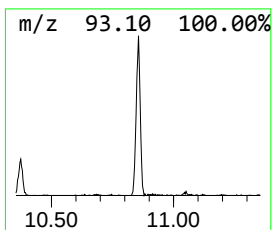
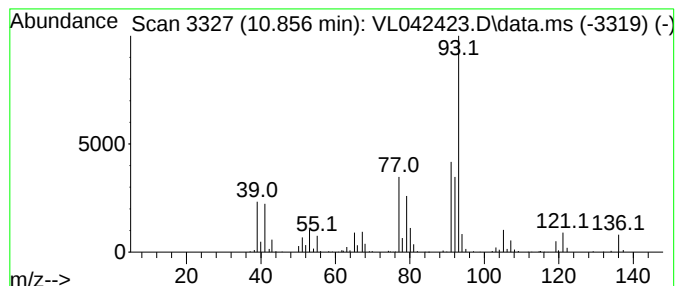
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 8 .alpha.-Pinene Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.856	2.27 ppbv	293730	Chlorobenzene-d5	8.879

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		.alpha.-Pinene	136	C10H16	000080-56-8	93
2		.gamma.-Terpinene	136	C10H16	000099-85-4	91
3		(1S)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-26-4	91
4		(1R)-2,6,6-Trimethylbicyclo[3.1....	136	C10H16	007785-70-8	91
5		.alpha.-Pinene	136	C10H16	000080-56-8	90



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042423.D
Acq On : 28 Apr 2025 13:26
Operator : SY/MD
Sample : Q1665-19
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-3242025

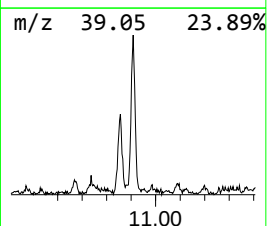
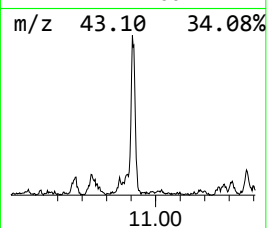
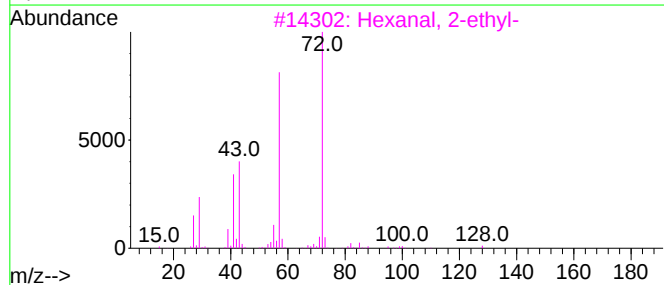
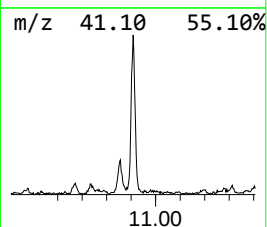
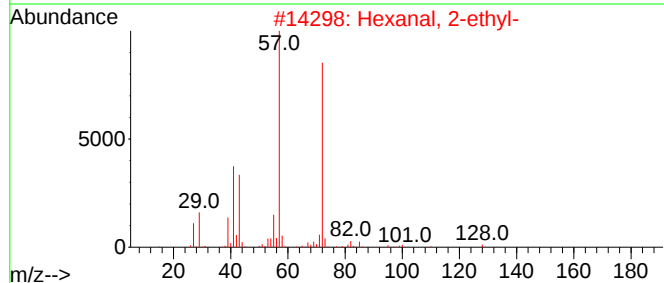
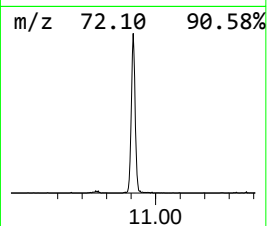
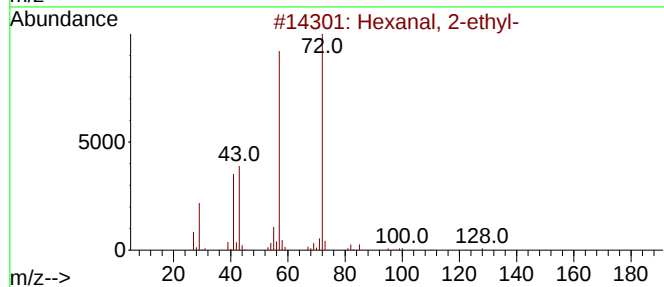
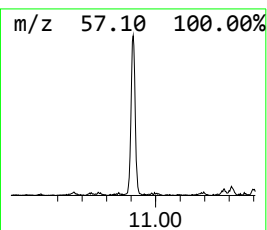
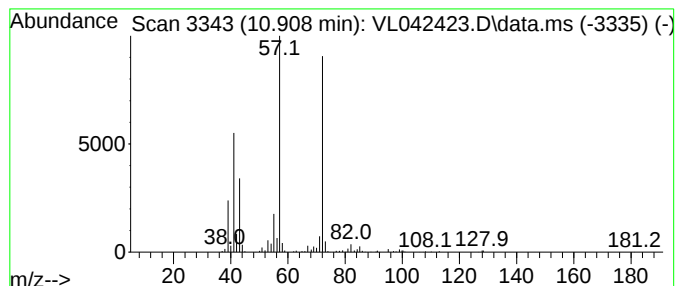
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

Peak Number 9 Hexanal, 2-ethyl- Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.908	3.73 ppbv	482281	Chlorobenzene-d5	8.879

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Hexanal, 2-ethyl-	128	C8H16O	000123-05-7	90
2			Hexanal, 2-ethyl-	128	C8H16O	000123-05-7	90
3			Hexanal, 2-ethyl-	128	C8H16O	000123-05-7	86
4			Hexanal, 2-ethyl-	128	C8H16O	000123-05-7	72
5			trans-1-Butene,1-butoxy-	128	C8H16O	1000139-52-8	72



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042423.D
Acq On : 28 Apr 2025 13:26
Operator : SY/MD
Sample : Q1665-19
Misc : 400mL/MSVOA_L
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-2-3242025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butane	1.619	24.9	ppbv	1330470	1	2.784	534680	10.0
1-Propanol	2.273	2.7	ppbv	142156	1	2.784	534680	10.0
Butanal	2.506	2.0	ppbv	105594	1	2.784	534680	10.0
Carbonic acid, ...	6.843	2.6	ppbv	340530	3	8.879	1294320	10.0
3-Heptanone	9.736	23.7	ppbv	3071120	3	8.879	1294320	10.0
.alpha.-Pinene	10.856	2.3	ppbv	293730	3	8.879	1294320	10.0
Hexanal, 2-ethyl-	10.908	3.7	ppbv	482281	3	8.879	1294320	10.0