

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
 Data File : VL042422.D
 Acq On : 28 Apr 2025 12:51
 Operator : SY/MD
 Sample : Q1665-16
 Misc : 400mL/MSVOA_L
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-B2-5-3242025

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: VL042422.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	409	414	420	rBV	4460760	5032148	100.00%	28.161%
2	1.486	426	432	434	rBV3	137920	85842	1.71%	0.480%
3	1.554	449	453	458	rBV2	289169	157190	3.12%	0.880%
4	1.618	469	473	476	rVB	127032	67891	1.35%	0.380%
5	1.719	499	504	510	rBV	2334806	1489559	29.60%	8.336%
6	1.832	534	539	547	rBV	626145	500494	9.95%	2.801%
7	1.881	547	554	560	rBV	938602	634087	12.60%	3.548%
8	1.958	574	578	584	rVB	92099	62902	1.25%	0.352%
9	2.055	599	608	611	rBV4	60902	65138	1.29%	0.365%
10	2.466	730	735	742	rVB2	126705	130928	2.60%	0.733%
11	2.619	774	782	789	rVB	84592	90164	1.79%	0.505%
12	2.780	824	832	838	rBV2	550256	561308	11.15%	3.141%
13	2.819	838	844	858	rVB	308935	375303	7.46%	2.100%
14	3.221	956	968	977	rVB3	80710	113229	2.25%	0.634%
15	3.648	1084	1100	1104	rBV4	52800	88391	1.76%	0.495%
16	3.677	1104	1109	1123	rVB3	126270	194062	3.86%	1.086%
17	3.845	1148	1161	1170	rBV4	36639	64167	1.28%	0.359%
18	3.949	1180	1193	1207	rBV	706631	1114552	22.15%	6.237%
19	4.039	1210	1221	1229	rBV2	52153	90733	1.80%	0.508%
20	4.253	1274	1287	1301	rBV5	82085	177342	3.52%	0.992%
21	4.632	1390	1404	1416	rVB2	91753	203730	4.05%	1.140%
22	4.968	1493	1508	1519	rVB4	43794	90355	1.80%	0.506%
23	5.648	1699	1718	1731	rBV10	29310	79946	1.59%	0.447%
24	6.813	2064	2078	2090	rBV5	24013	58160	1.16%	0.325%
25	6.920	2095	2111	2128	rBV2	483031	994319	19.76%	5.564%
26	7.590	2306	2318	2324	rBV8	25713	55922	1.11%	0.313%
27	7.674	2333	2344	2362	rVB4	157976	277952	5.52%	1.555%
28	8.289	2528	2534	2552	rVB9	45111	91441	1.82%	0.512%
29	8.872	2697	2714	2726	rBV	895588	1326674	26.36%	7.424%
30	9.348	2851	2861	2873	rBV2	72192	106349	2.11%	0.595%
31	9.522	2906	2915	2932	rVB2	165371	331234	6.58%	1.854%
32	9.956	3034	3049	3060	rBV5	94073	168970	3.36%	0.946%
33	10.367	3160	3176	3188	rBV	1181166	1469842	29.21%	8.226%
34	10.849	3316	3325	3333	rBV2	336986	407663	8.10%	2.281%
35	10.891	3333	3338	3347	rVB3	67337	78151	1.55%	0.437%
36	10.982	3356	3366	3379	rBV2	32756	53493	1.06%	0.299%

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Peak Location: TOP

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37	11.089	3391	3399	3404	rBV	93773	106842	2.12%	0.598%
38	11.196	3422	3432	3442	rBV2	54977	64993	1.29%	0.364%
39	11.419	3490	3501	3510	rVB6	80544	112242	2.23%	0.628%
40	11.529	3528	3535	3549	rVB2	154227	184290	3.66%	1.031%
41	11.746	3594	3602	3606	rBV3	100868	113241	2.25%	0.634%
42	11.769	3606	3609	3617	rVB2	76201	79599	1.58%	0.445%
43	11.921	3649	3656	3662	rBV3	50931	60103	1.19%	0.336%
44	12.034	3683	3691	3698	rVB8	63352	71664	1.42%	0.401%
45	12.820	3928	3934	3940	rBV	187136	186715	3.71%	1.045%

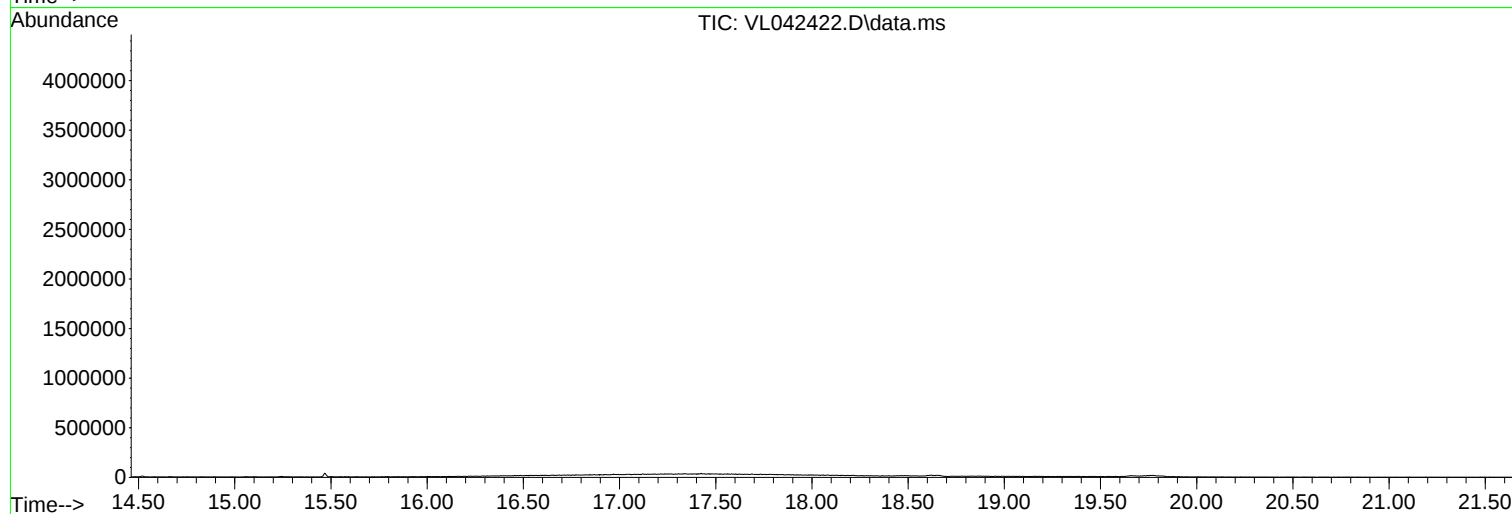
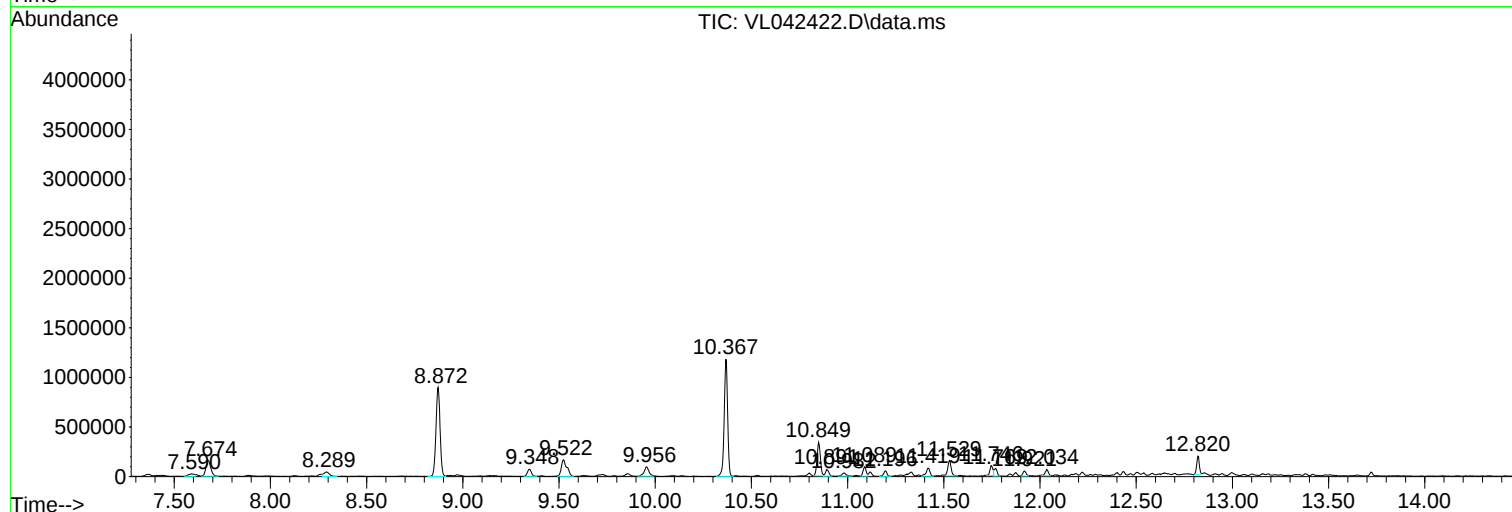
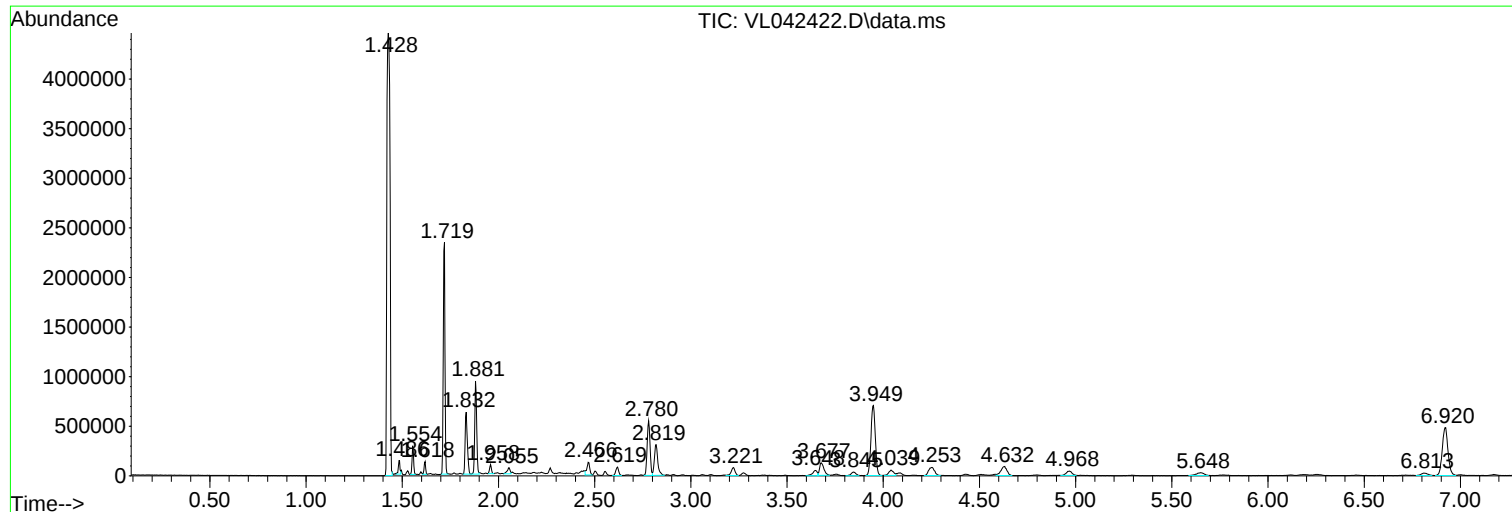
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Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-3242025

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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Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-3242025

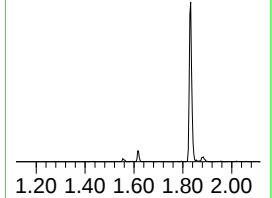
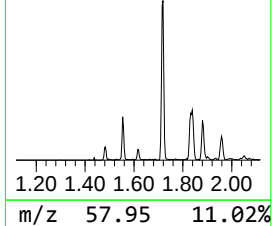
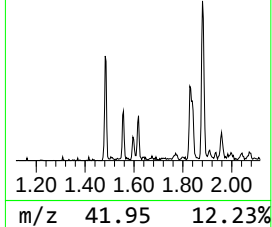
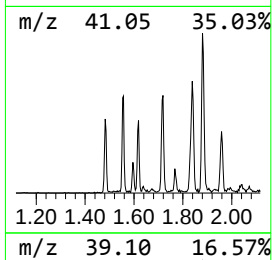
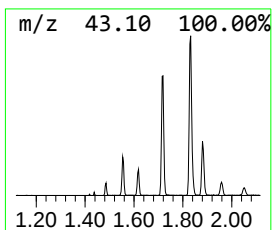
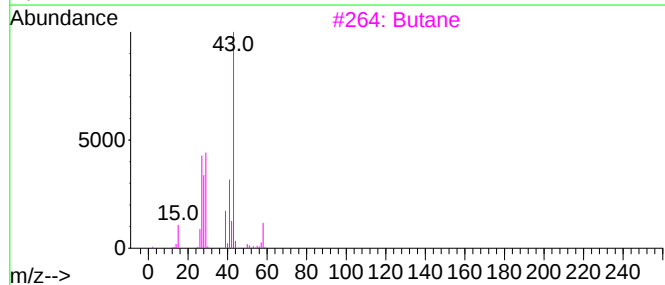
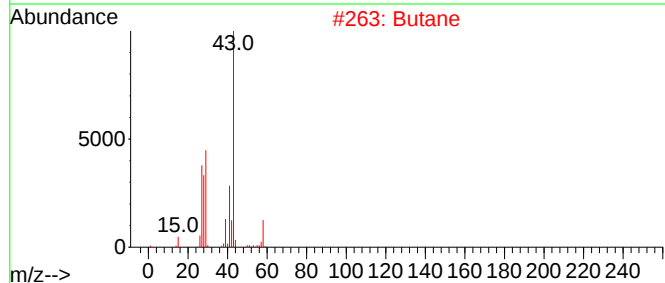
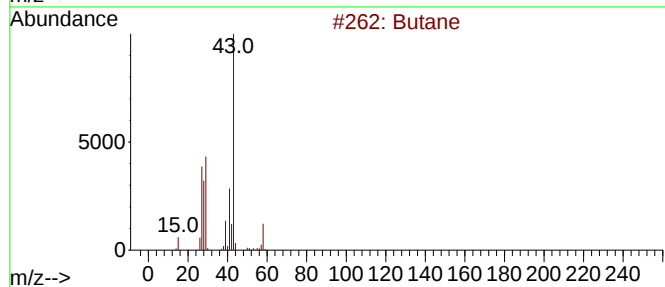
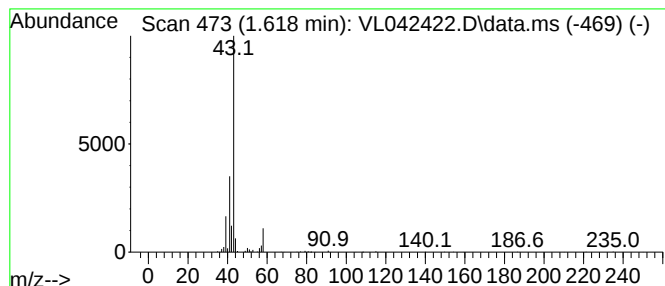
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 1 Butane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.618	1.21 ppbv	67891	Bromochloromethane	2.780

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane			58	C4H10	000106-97-8	64
2	Butane			58	C4H10	000106-97-8	64
3	Butane			58	C4H10	000106-97-8	50
4	Formic acid, chloro-, (3,4,4-tri...			194	C7H11ClO4	107323-92-2	39
5	Methyl glyoxal			72	C3H4O2	000078-98-8	9



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Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-3242025

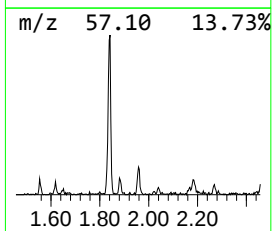
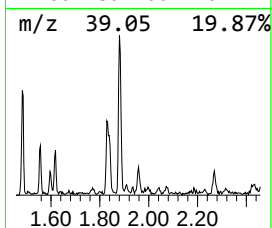
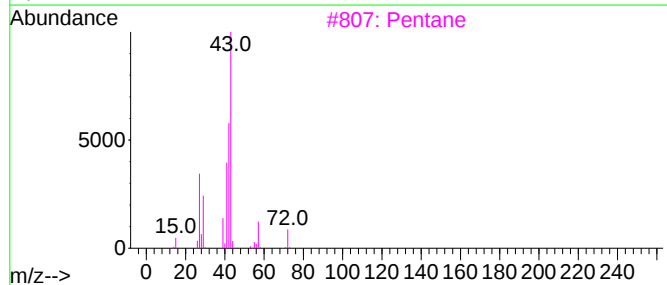
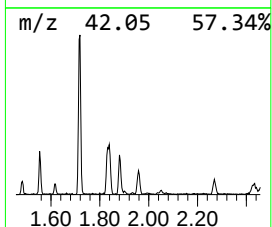
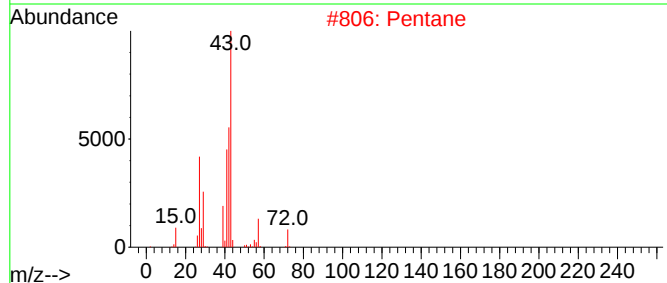
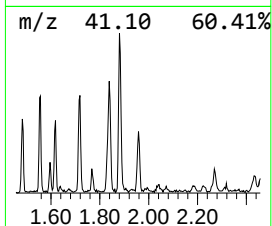
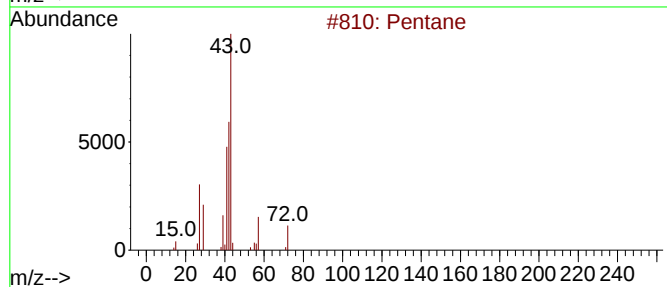
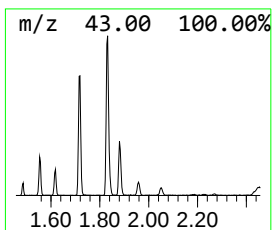
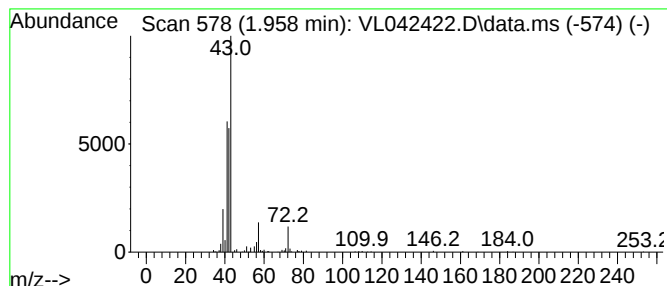
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 2 Pentane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
1.958	1.12 ppbv	62902	Bromochloromethane	2.780

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentane			72	C5H12	000109-66-0	80
2	Pentane			72	C5H12	000109-66-0	80
3	Pentane			72	C5H12	000109-66-0	72
4	Pentane			72	C5H12	000109-66-0	58
5	Pentane			72	C5H12	000109-66-0	42



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
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Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

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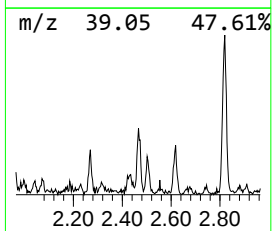
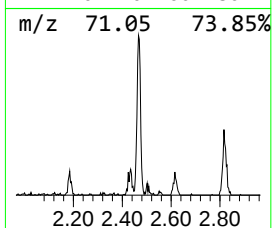
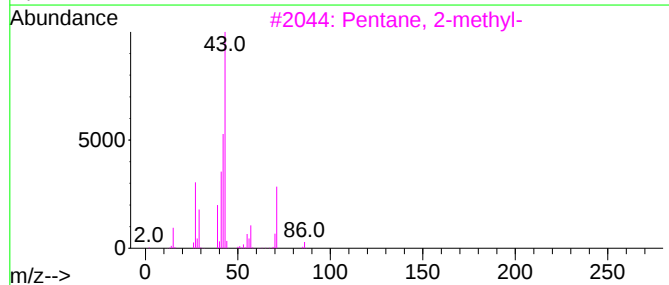
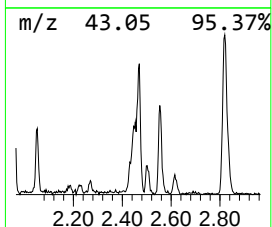
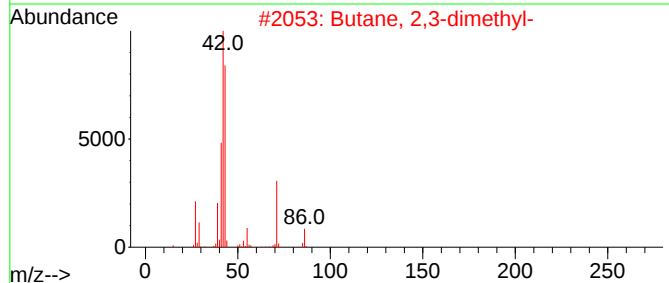
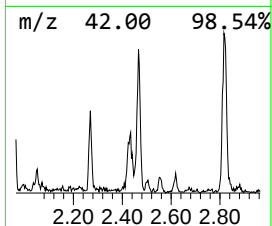
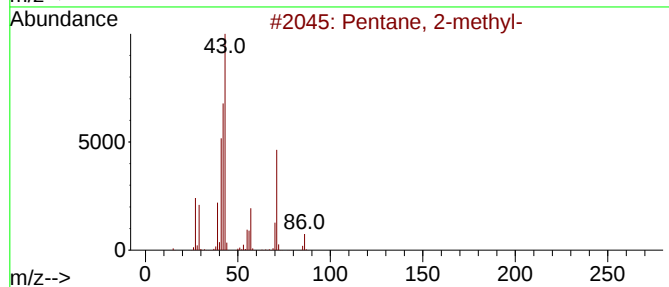
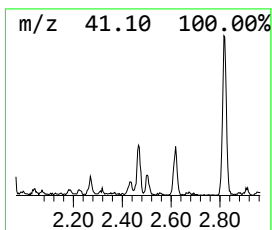
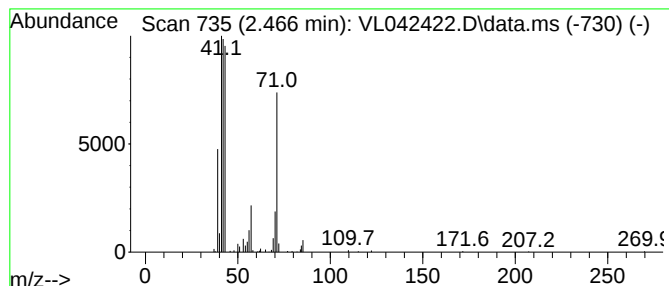
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 3 Pentane, 2-methyl- Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.466	2.33 ppbv	130928	Bromochloromethane	2.780

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Pentane, 2-methyl-	86	C6H14	000107-83-5	50
2			Butane, 2,3-dimethyl-	86	C6H14	000079-29-8	45
3			Pentane, 2-methyl-	86	C6H14	000107-83-5	42
4			Pentane, 2-methyl-	86	C6H14	000107-83-5	42
5			Sulfurous acid, isobutyl 2-penty...	208	C9H20O3S	1000309-15-2	37



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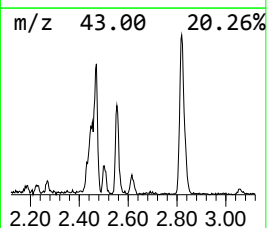
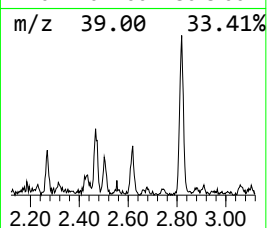
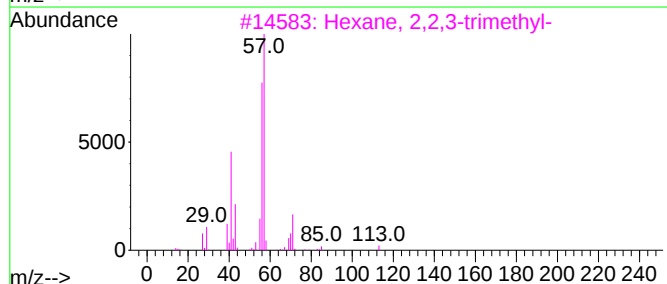
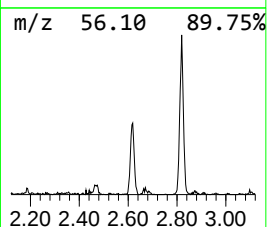
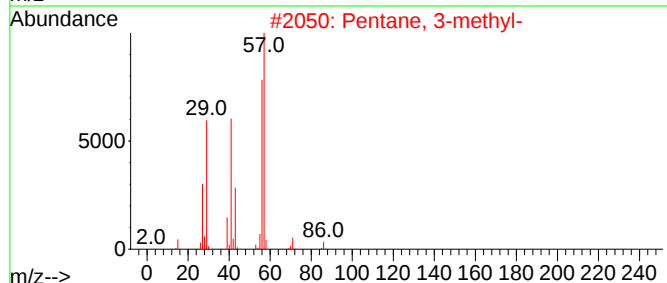
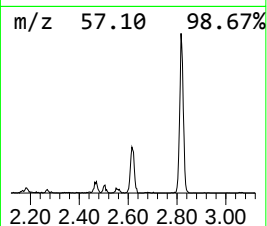
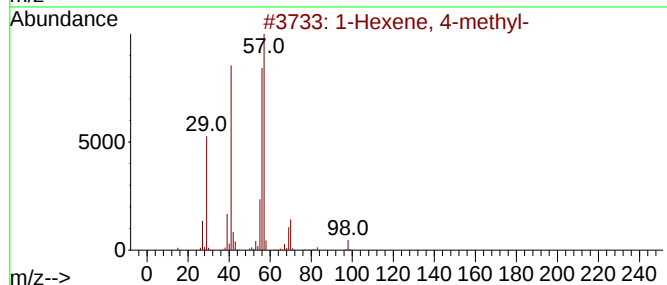
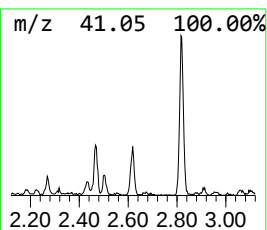
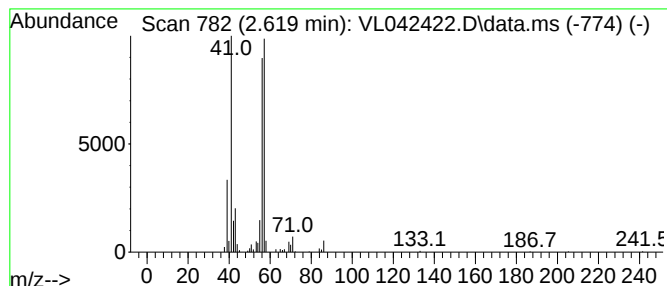
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL041725AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 4 1-Hexene, 4-methyl- Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.619	1.61 ppbv	90164	Bromochloromethane	2.780

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			1-Hexene, 4-methyl-	98	C7H14	003769-23-1	78
2			Pentane, 3-methyl-	86	C6H14	000096-14-0	64
3			Hexane, 2,2,3-trimethyl-	128	C9H20	016747-25-4	64
4			Pentane, 3-methyl-	86	C6H14	000096-14-0	64
5			Pentane, 3-methyl-	86	C6H14	000096-14-0	64



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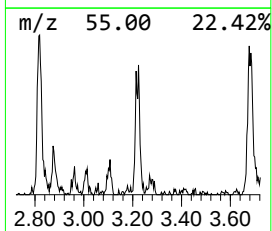
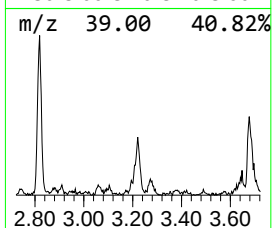
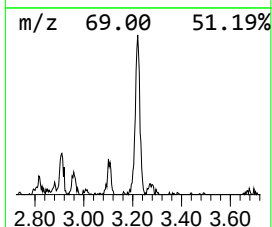
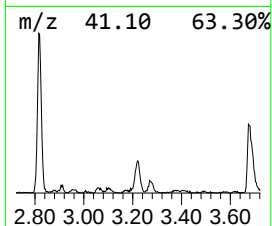
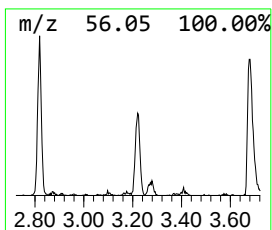
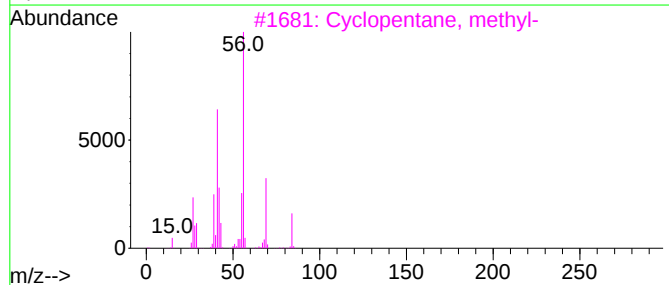
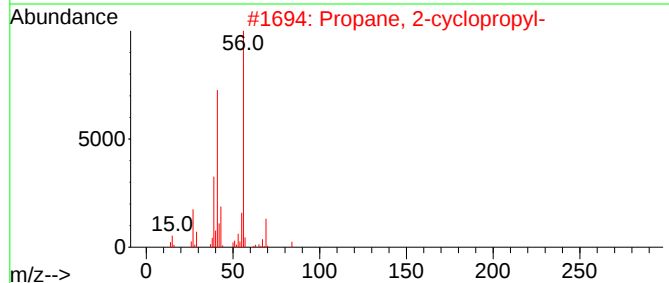
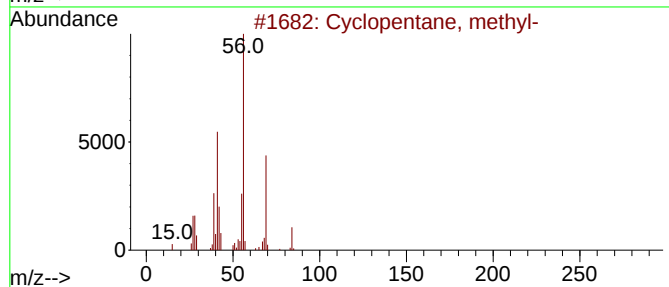
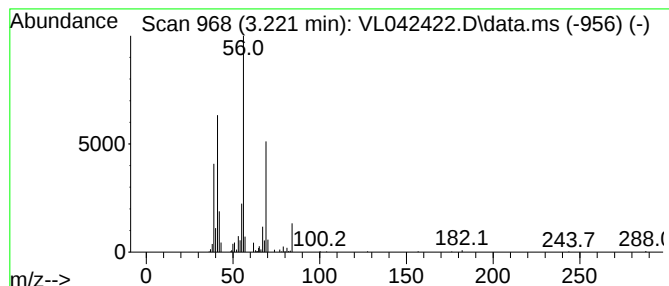
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 5 Cyclopentane, methyl- Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
3.221	2.02 ppbv	113229	Bromochloromethane	2.780

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1			Cyclopentane, methyl-	84	C6H12	000096-37-7	52
2			Propane, 2-cyclopropyl-	84	C6H12	003638-35-5	49
3			Cyclopentane, methyl-	84	C6H12	000096-37-7	49
4			1-Pentanol, 3-methyl-	102	C6H14O	000589-35-5	47
5			Cyclopentane, methyl-	84	C6H12	000096-37-7	47



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-3242025

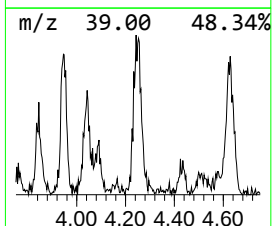
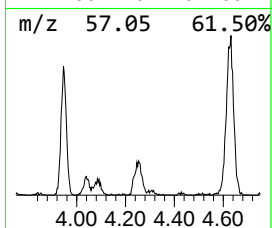
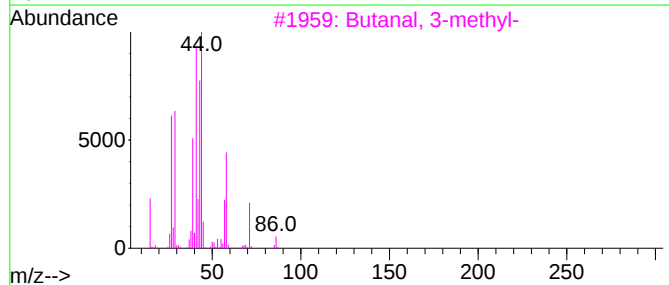
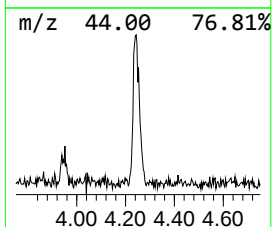
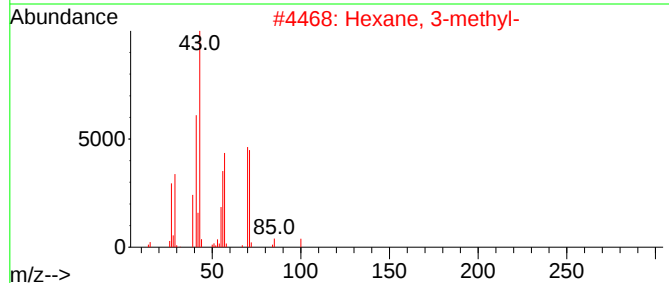
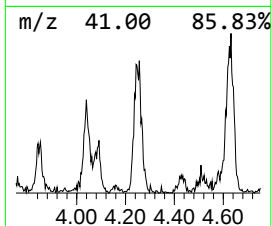
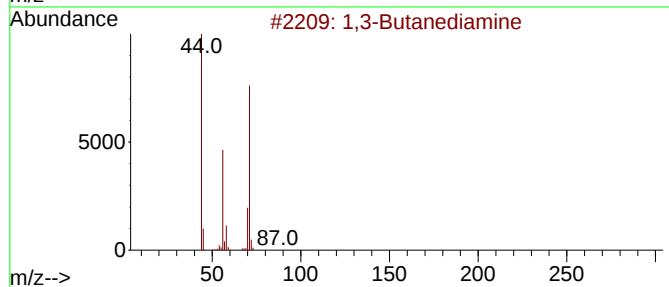
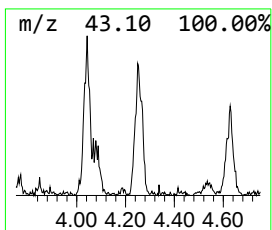
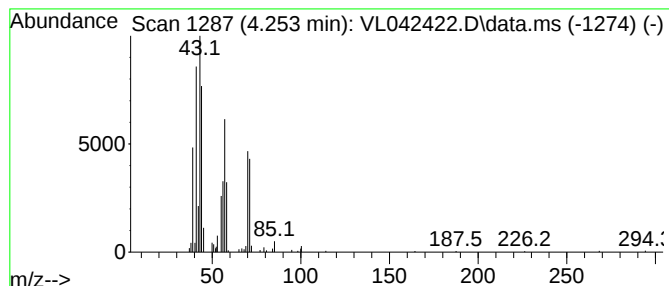
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 6 1,3-Butanediamine Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.253	1.59 ppbv	177342	1,4-Difluorobenzene	3.949

Hit#	of 5	Tentative ID	MW	MolForm	CAS#	Qual
1		1,3-Butanediamine	88	C4H12N2	000590-88-5	53
2		Hexane, 3-methyl-	100	C7H16	000589-34-4	45
3		Butanal, 3-methyl-	86	C5H10O	000590-86-3	40
4		Hexane, 3-methyl-	100	C7H16	000589-34-4	38
5		1-Heptene, 4-methyl-	112	C8H16	013151-05-8	38



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-3242025

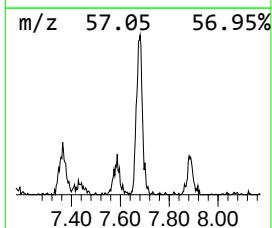
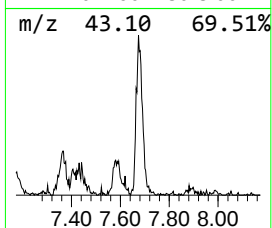
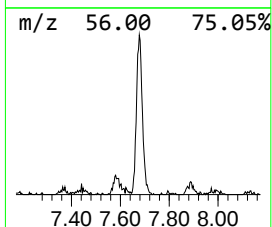
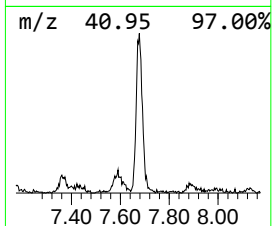
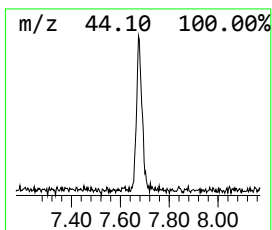
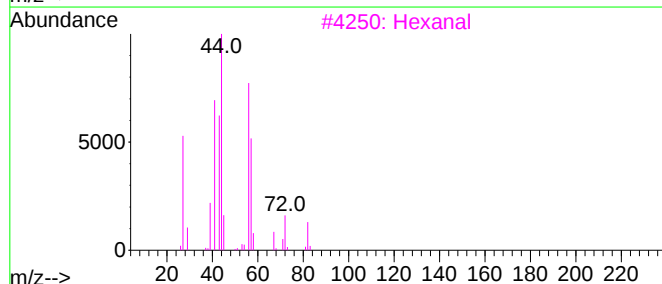
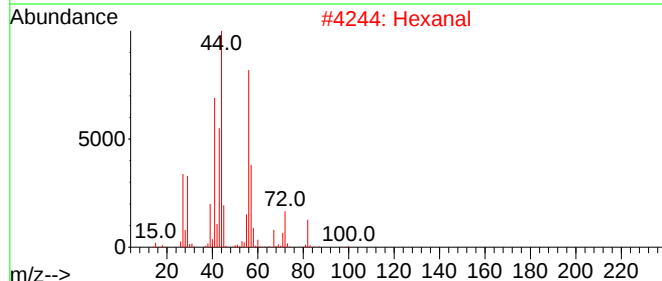
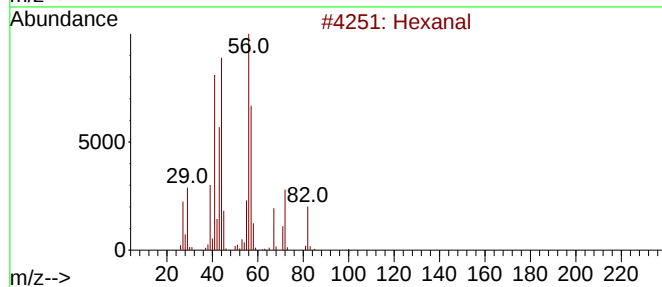
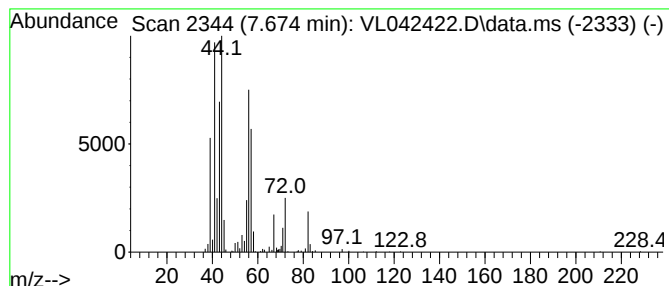
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 7 Hexanal Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
7.674	2.10 ppbv	277952	Chlorobenzene-d5	8.872

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanal			100	C6H12O	000066-25-1	81
2	Hexanal			100	C6H12O	000066-25-1	53
3	Hexanal			100	C6H12O	000066-25-1	42
4	Butanal, 3-methyl-			86	C5H10O	000590-86-3	38
5	1,2,4-Trioxolane, 3,5-dipropyl-			160	C8H16O3	001696-03-3	35



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-3242025

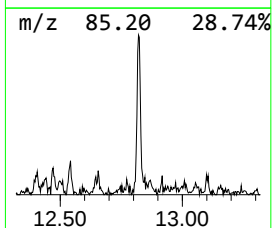
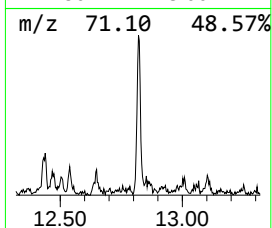
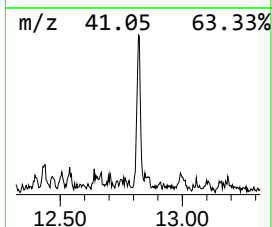
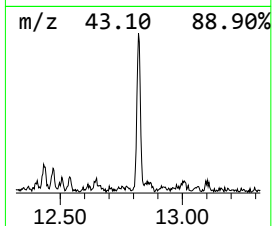
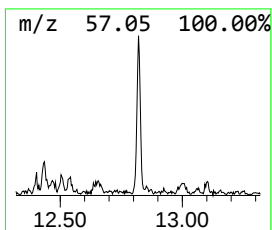
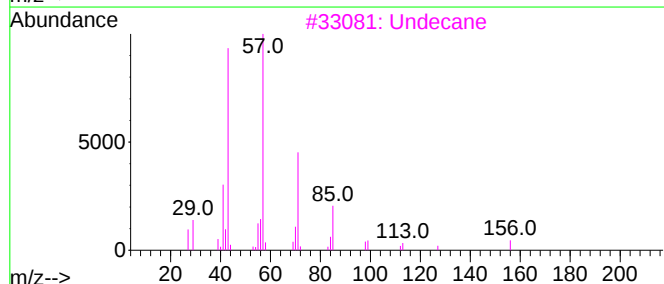
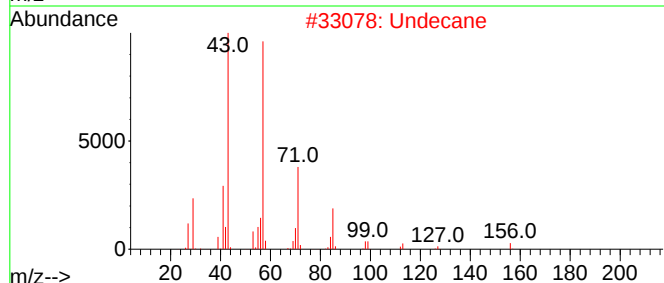
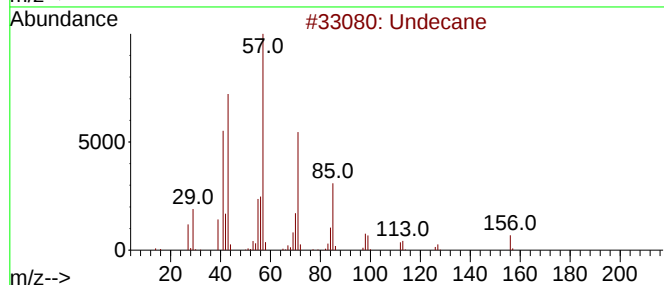
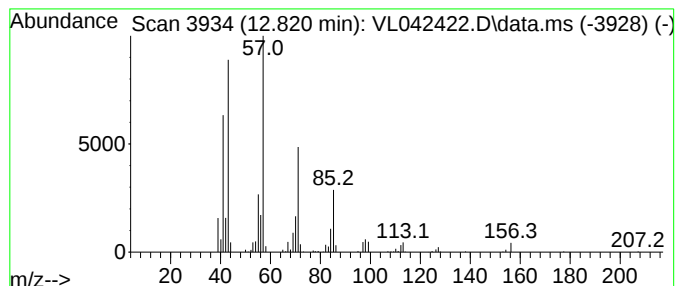
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

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

Peak Number 8 Undecane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.820	1.41 ppbv	186715	Chlorobenzene-d5	8.872

Hit#	of	5	Tentative ID	MW	MolForm	CAS#	Qual
1	Undecane			156	C11H24	001120-21-4	93
2	Undecane			156	C11H24	001120-21-4	90
3	Undecane			156	C11H24	001120-21-4	90
4	Undecane			156	C11H24	001120-21-4	87
5	Dodecane			170	C12H26	000112-40-3	80



Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL042825\
Data File : VL042422.D
Acq On : 28 Apr 2025 12:51
Operator : SY/MD
Sample : Q1665-16
Misc : 400mL/MSVOA_L
ALS Vial : 9 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
IA-B2-5-3242025

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\NIST0.L
TIC Integration Parameters: LSCINT.P

TIC Top Hit name	RT	EstConc	Units	Response	--Internal Standard--			
					#	RT	Resp	Conc
Butane	1.618	1.2	ppbv	67891	1	2.780	561308	10.0
Pentane	1.958	1.1	ppbv	62902	1	2.780	561308	10.0
Pentane, 2-methyl-	2.466	2.3	ppbv	130928	1	2.780	561308	10.0
1-Hexene, 4-met...	2.619	1.6	ppbv	90164	1	2.780	561308	10.0
Cyclopentane, m...	3.221	2.0	ppbv	113229	1	2.780	561308	10.0
1,3-Butanediamine	4.253	1.6	ppbv	177342	2	3.949	1114550	10.0
Hexanal	7.674	2.1	ppbv	277952	3	8.872	1326670	10.0
Undecane	12.820	1.4	ppbv	186715	3	8.872	1326670	10.0