

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL020325\
 Data File : VL041969.D
 Acq On : 03 Feb 2025 17:41
 Operator : SY/MD
 Sample : Q1222-03
 Misc : 400mL/MSVOA_L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Feb 04 02:39:35 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Jan 14 23:15:42 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

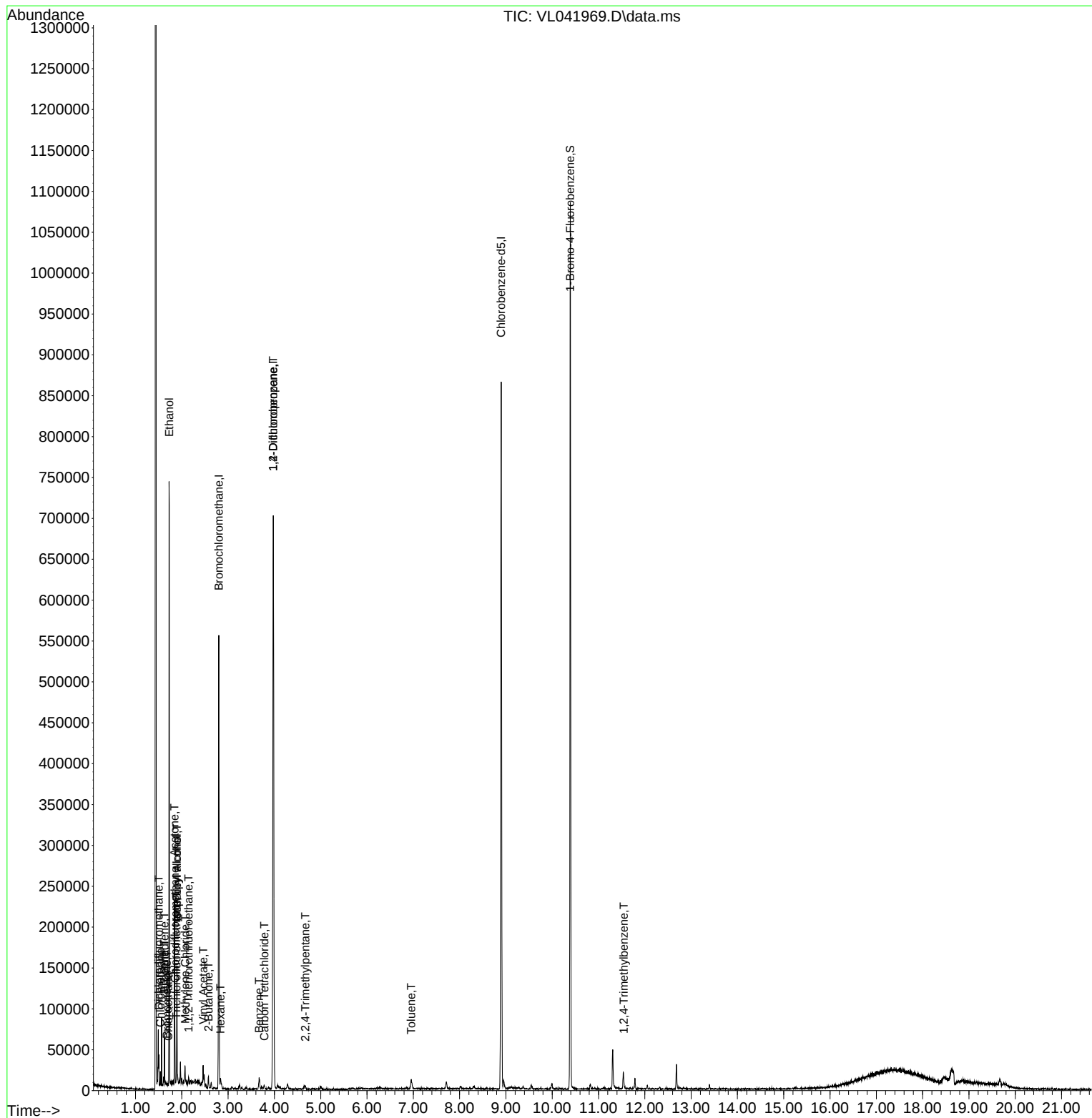
Internal Standards						
1) Bromochloromethane	2.800	49	156518	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.975	114	426360	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.898	117	359092	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.390	95	270791	9.574	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	1.502	85	8982	0.421	ppbv	95
3) Chlorodifluoromethane	1.852	51	679	0.030	ppbv	96
4) Chloromethane	1.538	50	4753	0.593	ppbv #	81
6) Bromomethane	1.680	94	162	0.042	ppbv #	6
7) Chloroethane	1.706	64	123	0.039	ppbv #	43
9) Propene	1.625	41	5622	0.611	ppbv	86
11) Trichlorofluoromethane	1.884	101	4332	0.195	ppbv	98
12) 1,1,2-Trichlorotrifluo...	2.146	101	1061	0.061	ppbv	90
13) Ethanol	1.725	45	267111	396.360	ppbv	85
15) Acetone	1.842	43	98843	5.258	ppbv	98
16) 1,3-Butadiene	1.625	39	3146	0.373	ppbv #	30
17) tert-Butyl alcohol	1.894	59	2066	0.089	ppbv	98
19) Isopropyl Alcohol	1.894	45	59985	5.382	ppbv #	35
20) Methylene Chloride	2.072	84	2865	0.386	ppbv #	88
23) Vinyl Acetate	2.463	43	8715	0.935	ppbv #	85
26) Hexane	2.836	57	2731	0.136	ppbv #	68
34) 2-Butanone	2.577	43	10009	0.369	ppbv	100
35) Carbon Tetrachloride	3.781	117	1954	0.073	ppbv #	67
36) Benzene	3.671	78	8262	0.211	ppbv #	89
39) 1,2-Dichloropropane	3.975	63	102219	7.452	ppbv #	22
44) 2,2,4-Trimethylpentane	4.668	57	1996	0.032	ppbv #	25
53) Toluene	6.956	91	6774	0.159	ppbv	99
74) 1,2,4-Trimethylbenzene	11.545	105	1637	0.032	ppbv #	48

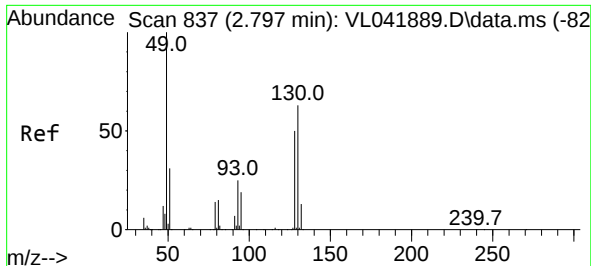
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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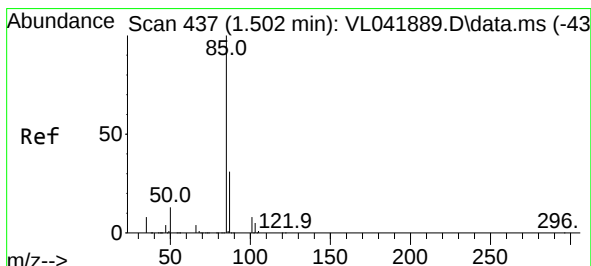
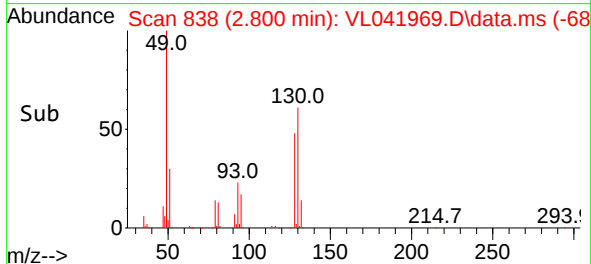
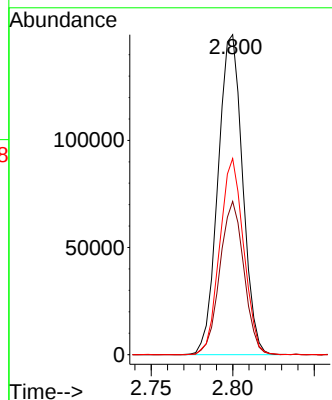
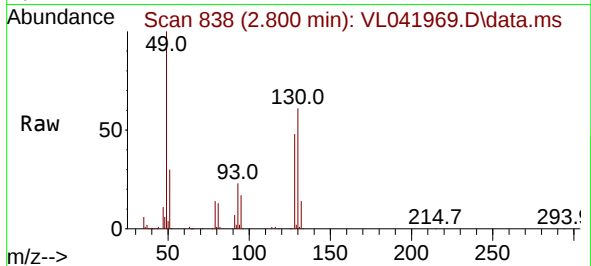




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.800 min Scan# 837
Delta R.T. 0.003 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

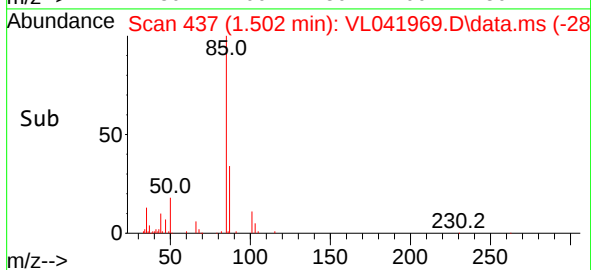
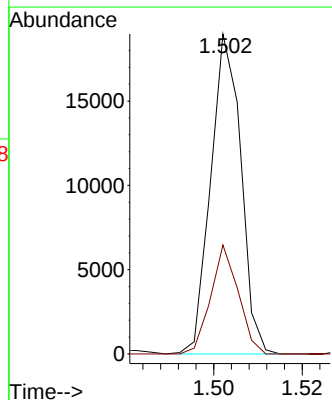
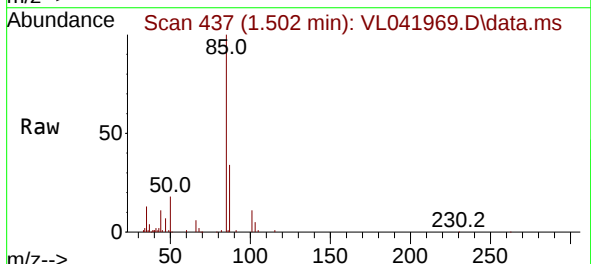
Instrument :
MSVOA_L
ClientSampleId :

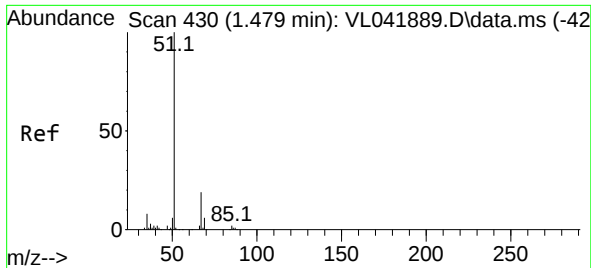
Tgt Ion: 49 Resp: 156518
Ion Ratio Lower Upper
49 100
128 46.9 24.3 73.0
130 59.7 31.1 93.2



#2
Dichlorodifluoromethane
Concen: 0.421 ppbv
RT: 1.502 min Scan# 437
Delta R.T. 0.000 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

Tgt Ion: 85 Resp: 8982
Ion Ratio Lower Upper
85 100
87 34.0 24.9 37.3

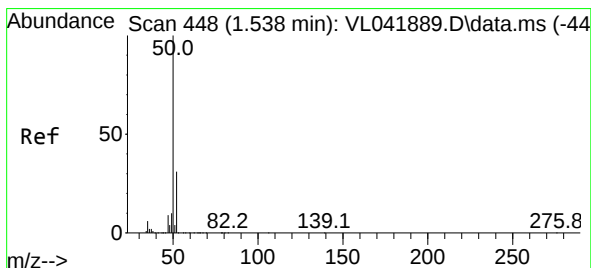
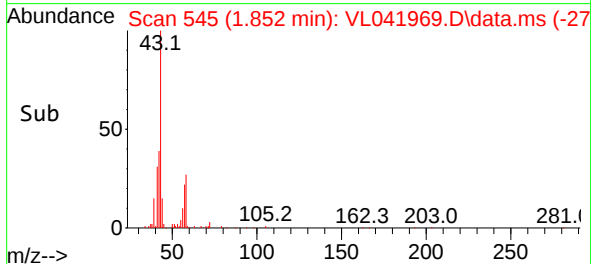
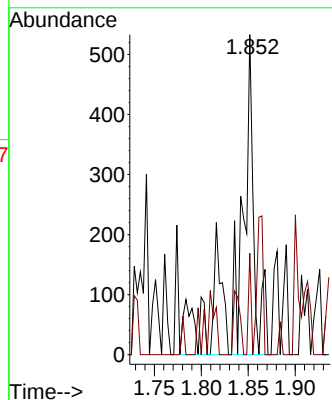
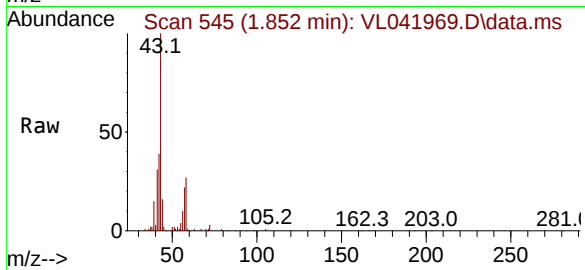




#3
Chlorodifluoromethane
Concen: 0.030 ppbv
RT: 1.852 min Scan# 54
Delta R.T. 0.372 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

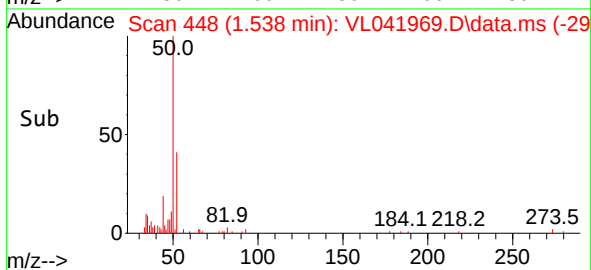
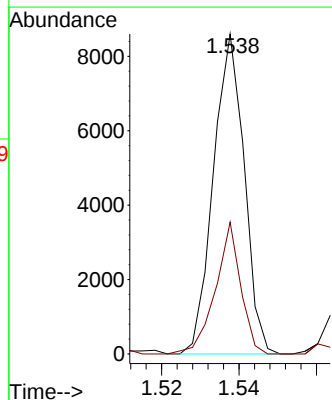
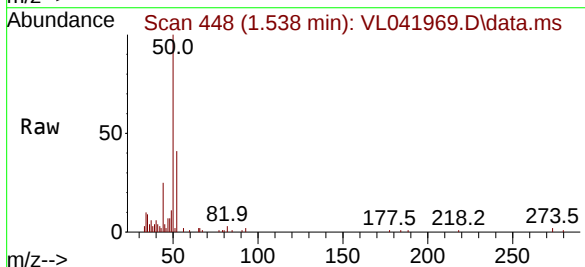
Instrument :
MSVOA_L
ClientSampleId :

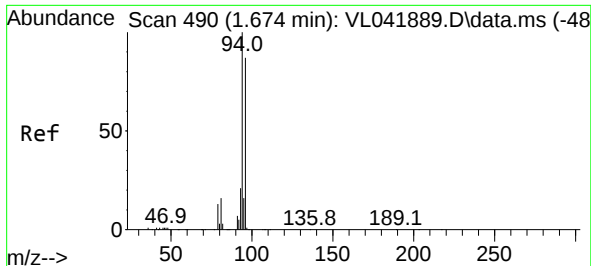
Tgt Ion: 51 Resp: 679
Ion Ratio Lower Upper
51 100
67 16.8 15.0 22.4



#4
Chloromethane
Concen: 0.593 ppbv
RT: 1.538 min Scan# 448
Delta R.T. 0.000 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

Tgt Ion: 50 Resp: 4753
Ion Ratio Lower Upper
50 100
52 41.2 24.6 36.8#

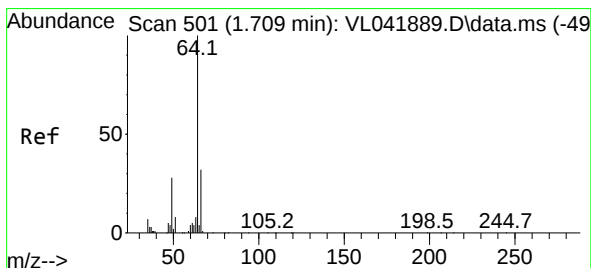
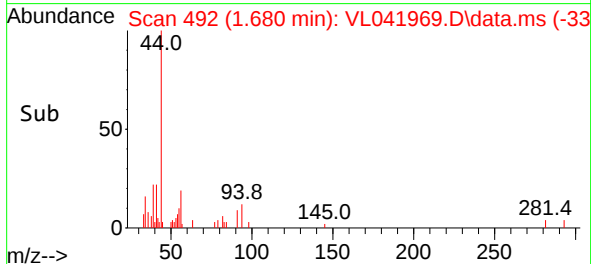
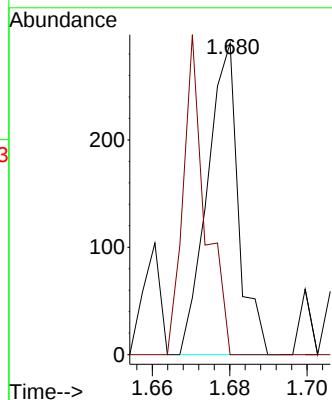
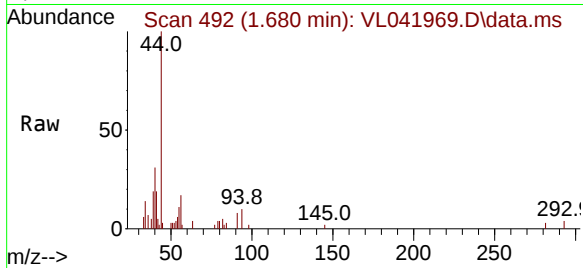




#6
Bromomethane
Concen: 0.042 ppbv
RT: 1.680 min Scan# 491
Delta R.T. 0.007 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

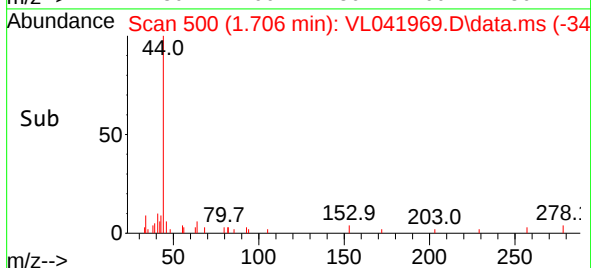
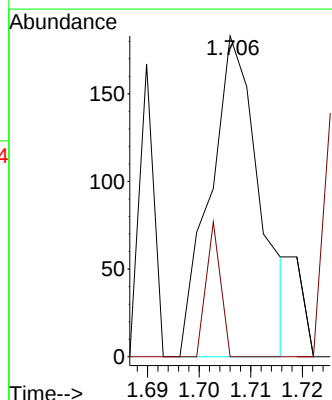
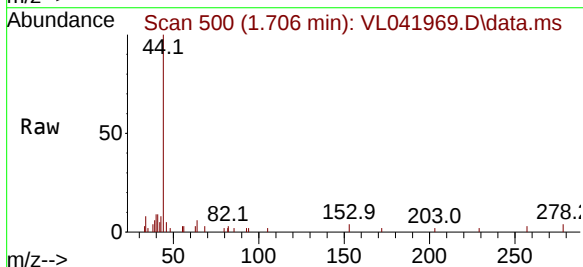
Instrument :
MSVOA_L
ClientSampleId :

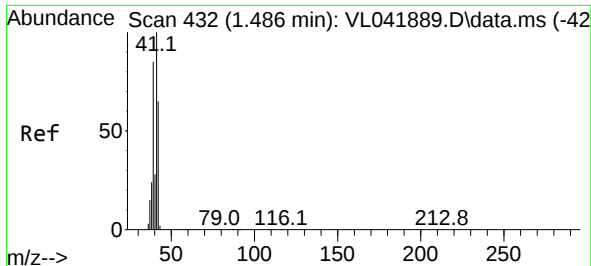
Tgt Ion: 94 Resp: 162
Ion Ratio Lower Upper
94 100
96 0.0 69.5 104.3#



#7
Chloroethane
Concen: 0.039 ppbv
RT: 1.706 min Scan# 500
Delta R.T. -0.003 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

Tgt Ion: 64 Resp: 123
Ion Ratio Lower Upper
64 100
66 0.0 25.7 38.5#





#9

Propene

Concen: 0.611 ppbv

RT: 1.625 min Scan# 41

Delta R.T. 0.139 min

Lab File: VL041969.D

Acq: 03 Feb 2025 17:41

Instrument :

MSVOA_L

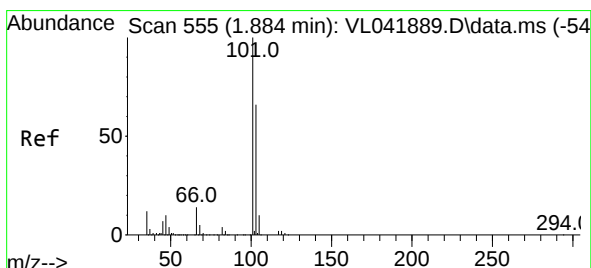
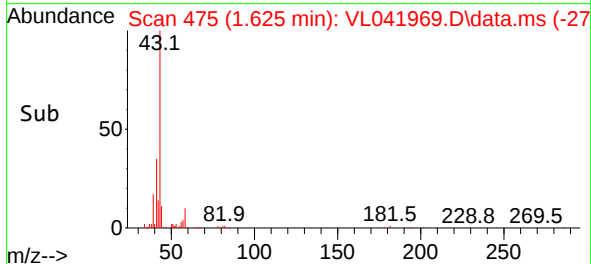
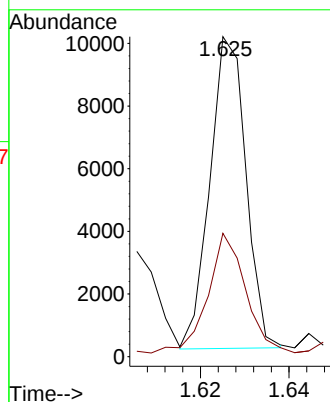
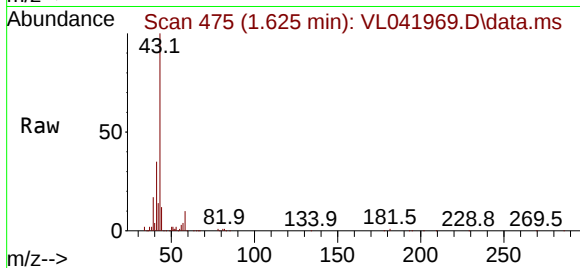
ClientSampleId :

Tgt Ion: 41 Resp: 5622

Ion Ratio Lower Upper

41 100

42 53.8 52.0 78.0



#11

Trichlorofluoromethane

Concen: 0.195 ppbv

RT: 1.884 min Scan# 555

Delta R.T. 0.000 min

Lab File: VL041969.D

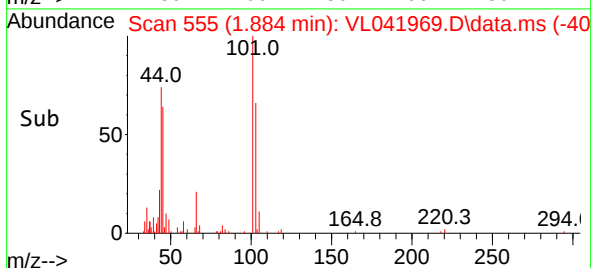
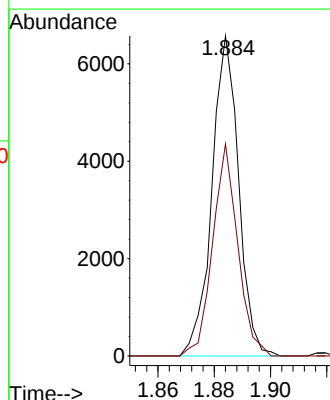
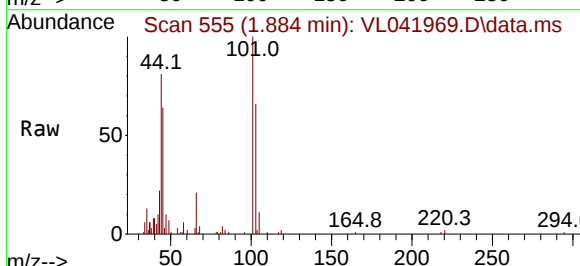
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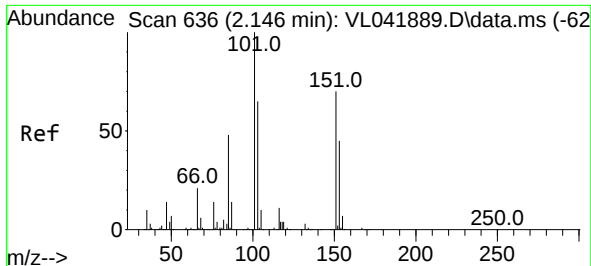
Tgt Ion:101 Resp: 4332

Ion Ratio Lower Upper

101 100

103 68.2 53.1 79.7

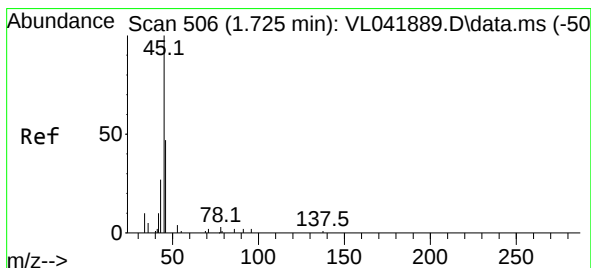
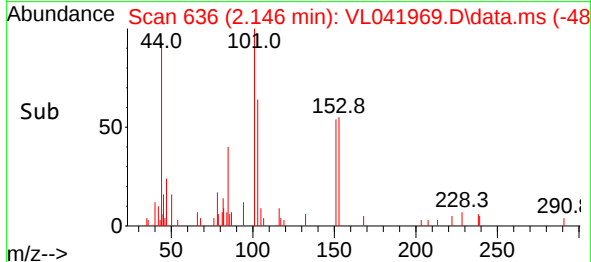
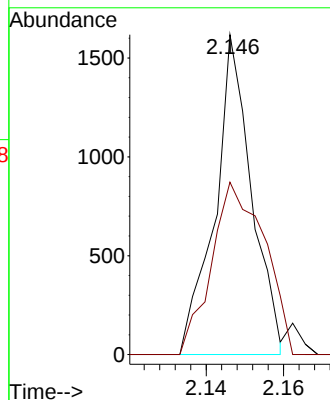
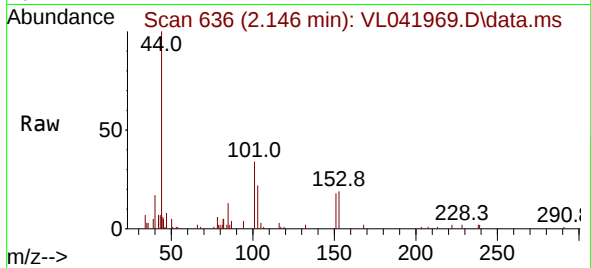




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.061 ppbv
RT: 2.146 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

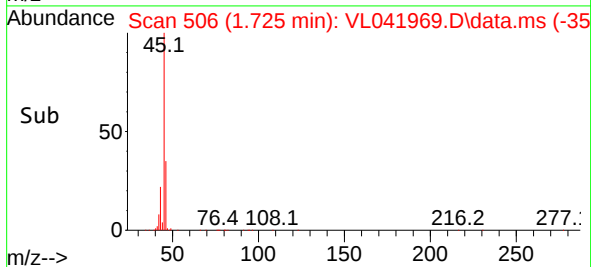
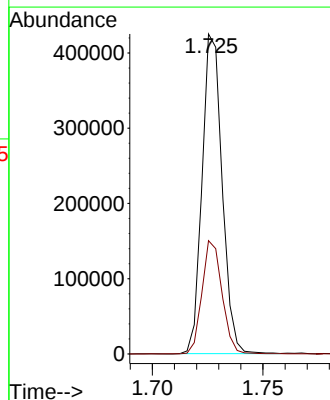
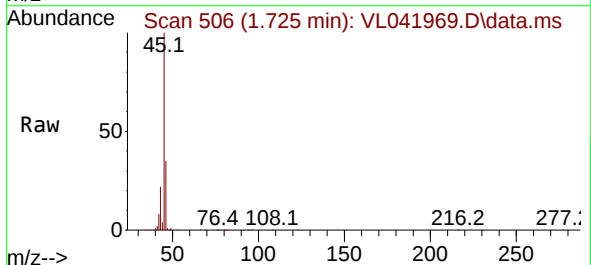
Instrument :
MSVOA_L
ClientSampleId :

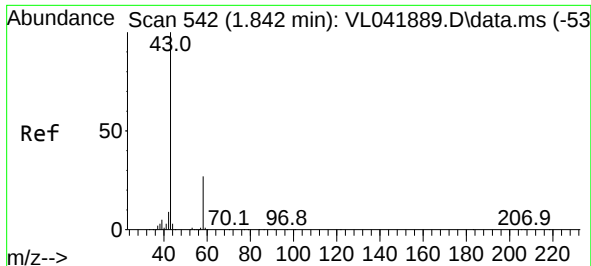
Tgt Ion:101 Resp: 1061
Ion Ratio Lower Upper
101 100
151 78.0 56.1 84.1



#13
Ethanol
Concen: 396.360 ppbv
RT: 1.725 min Scan# 506
Delta R.T. 0.000 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

Tgt Ion: 45 Resp: 267111
Ion Ratio Lower Upper
45 100
46 35.7 18.1 72.5

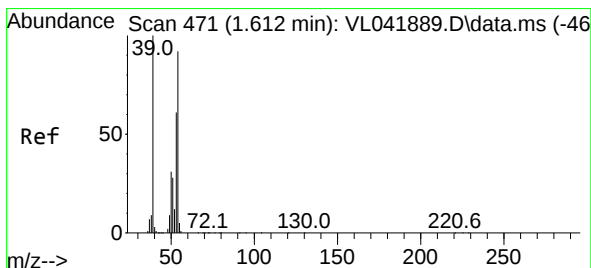
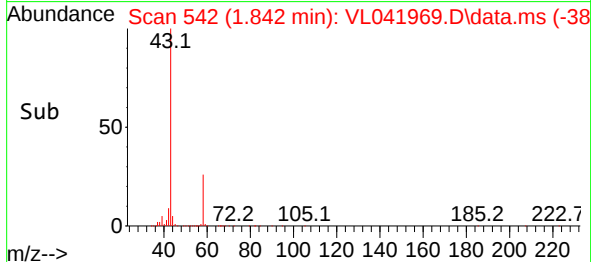
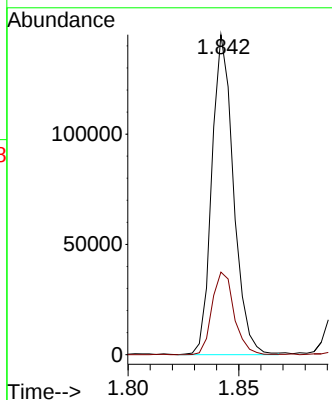
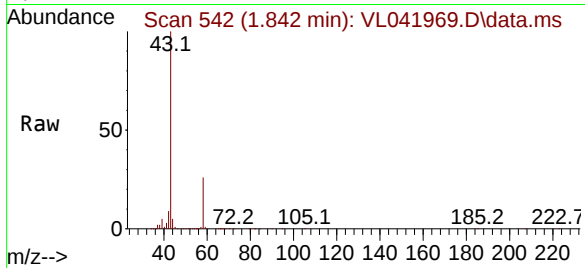




#15
Acetone
Concen: 5.258 ppbv
RT: 1.842 min Scan# 54
Delta R.T. 0.000 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

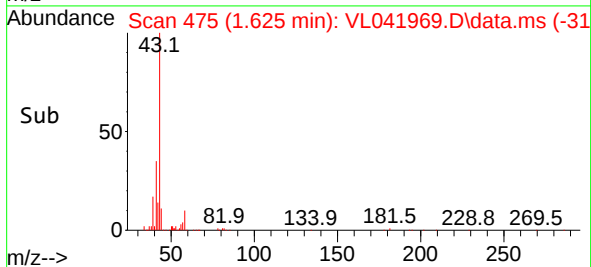
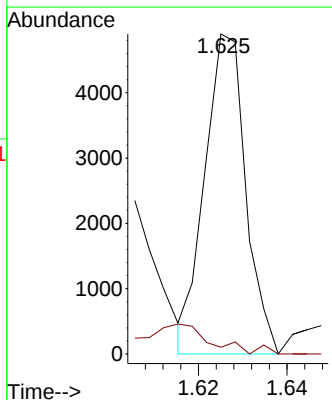
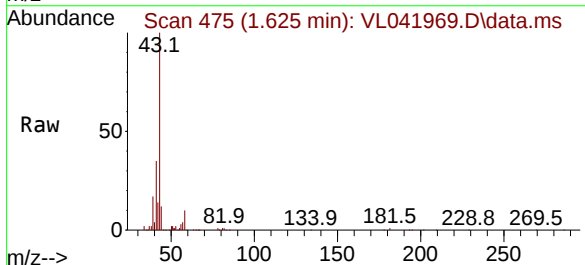
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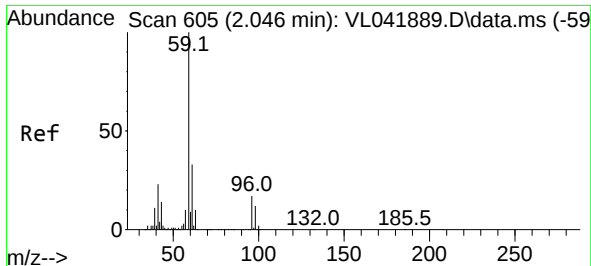
Tgt Ion: 43 Resp: 98843
Ion Ratio Lower Upper
43 100
58 26.4 21.9 32.9



#16
1,3-Butadiene
Concen: 0.373 ppbv
RT: 1.625 min Scan# 475
Delta R.T. 0.013 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

Tgt Ion: 39 Resp: 3146
Ion Ratio Lower Upper
39 100
54 16.4 61.6 92.4#

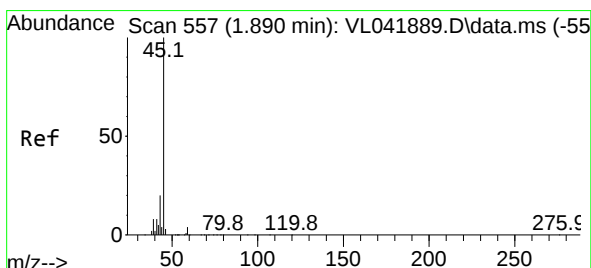
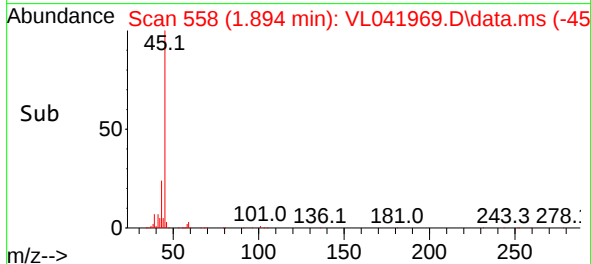
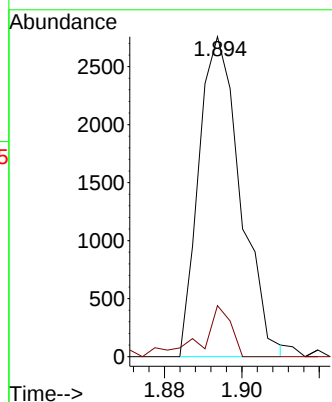
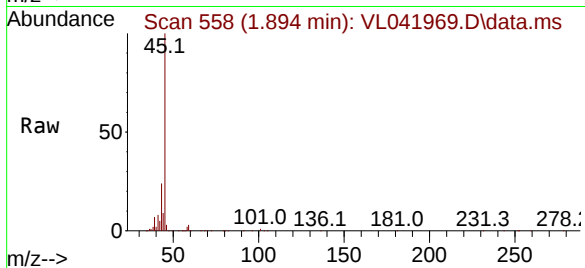




#17
tert-Butyl alcohol
Concen: 0.089 ppbv
RT: 1.894 min Scan# 558
Delta R.T. -0.152 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

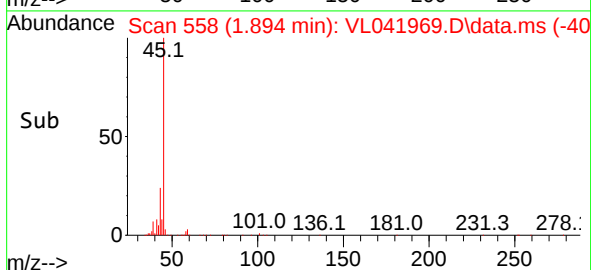
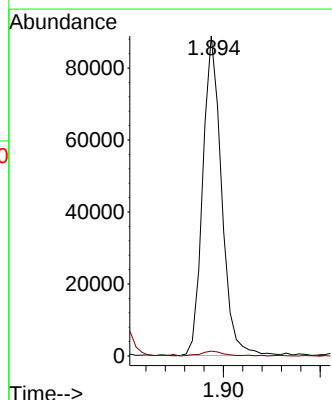
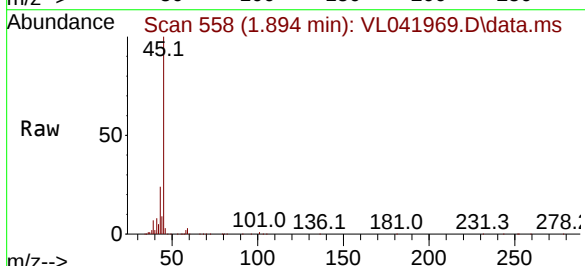
Instrument :
MSVOA_L
ClientSampleId :

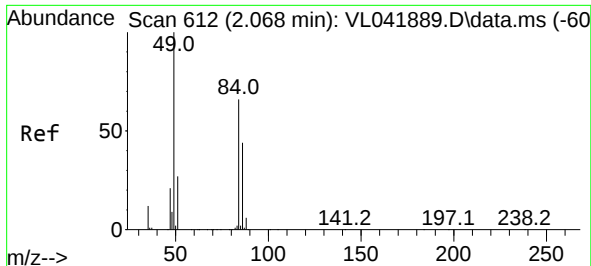
Tgt Ion: 59 Resp: 2066
Ion Ratio Lower Upper
59 100
57 10.4 7.8 11.8



#19
Isopropyl Alcohol
Concen: 5.382 ppbv
RT: 1.894 min Scan# 558
Delta R.T. 0.003 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

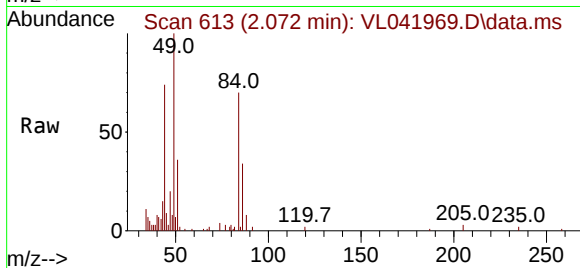
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Ion Ratio Lower Upper
45 100
58 2.1 35.0 52.6#



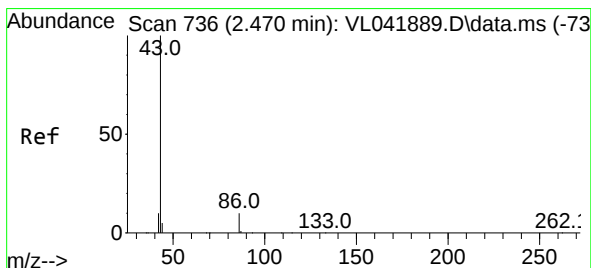
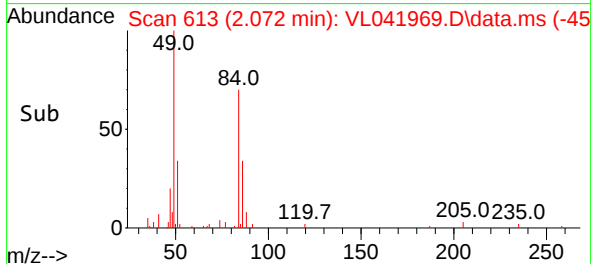
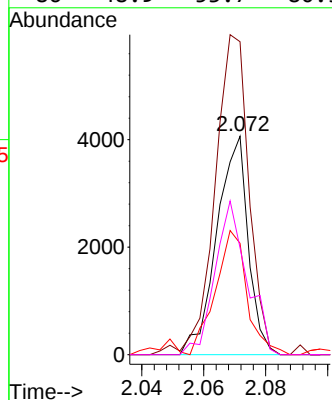


#20
Methylene Chloride
Concen: 0.386 ppbv
RT: 2.072 min Scan# 612
Delta R.T. 0.003 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

Instrument :
MSVOA_L
ClientSampleId :

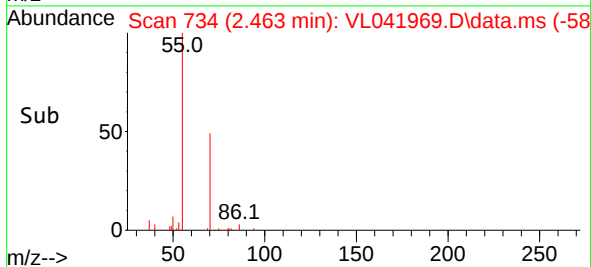
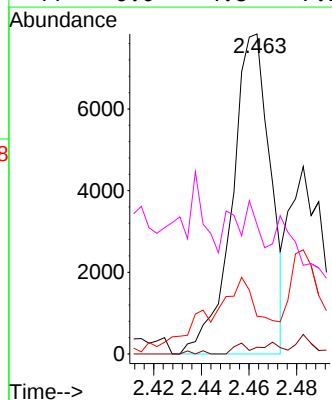
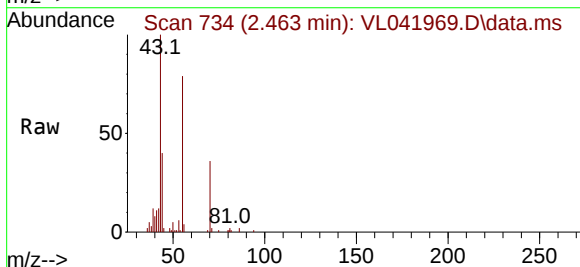


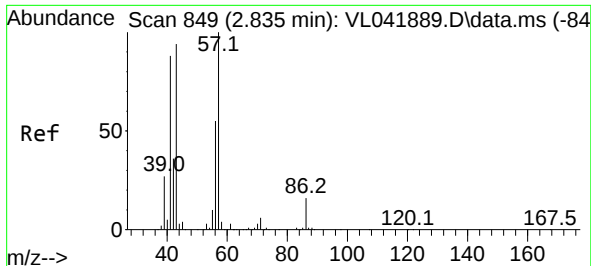
Tgt Ion: 84 Resp: 2865
Ion Ratio Lower Upper
84 100
49 143.2 123.1 184.7
51 49.7 35.8 53.8
86 48.9 53.7 80.5#



#23
Vinyl Acetate
Concen: 0.935 ppbv
RT: 2.463 min Scan# 734
Delta R.T. -0.006 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

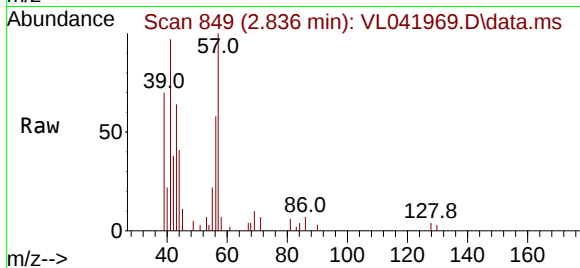
Tgt Ion: 43 Resp: 8715
Ion Ratio Lower Upper
43 100
86 2.1 6.2 9.4#
42 6.2 8.5 12.7#
44 0.0 4.8 7.2#



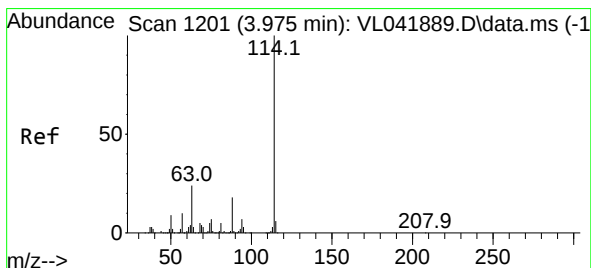
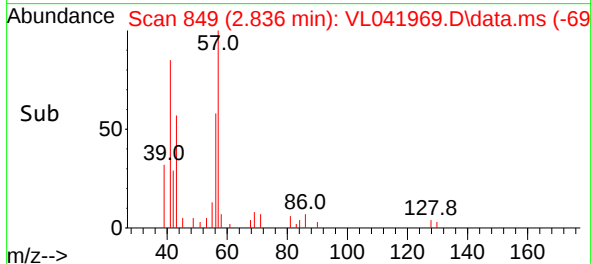
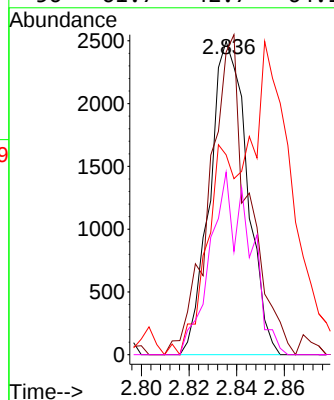


#26
Hexane
Concen: 0.136 ppbv
RT: 2.836 min Scan# 849
Delta R.T. 0.000 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

Instrument :
MSVOA_L
ClientSampleId :

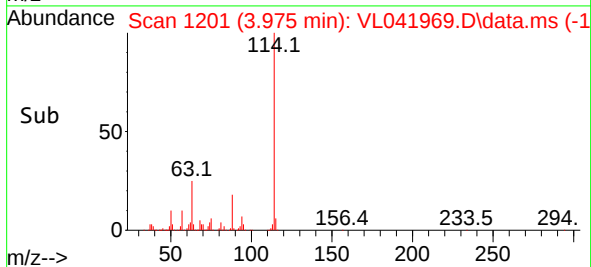
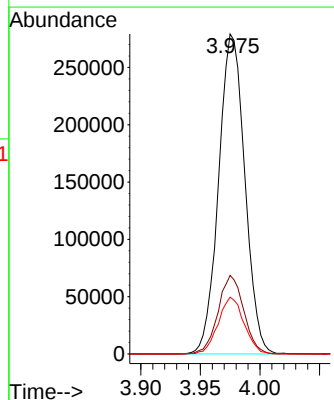
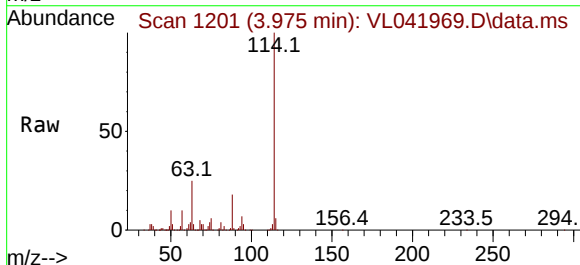


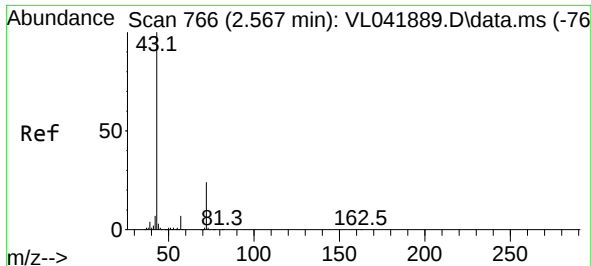
Tgt Ion: 57	Resp: 2731
Ion Ratio	Lower Upper
57 100	
41 108.8	73.8 110.8
43 173.7	197.3 295.9#
56 61.7	42.7 64.1



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 3.975 min Scan# 1201
Delta R.T. 0.000 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

Tgt Ion:114	Resp: 426360		
Ion Ratio	Lower	Upper	
114 100			
63 24.1	19.8	29.6	
88 17.5	14.4	21.6	

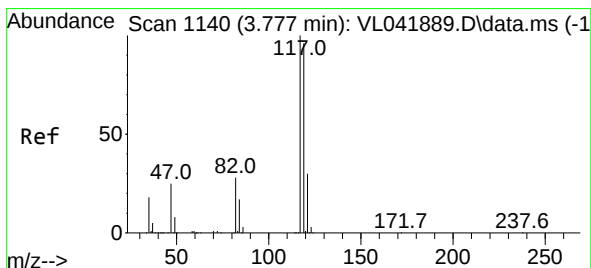
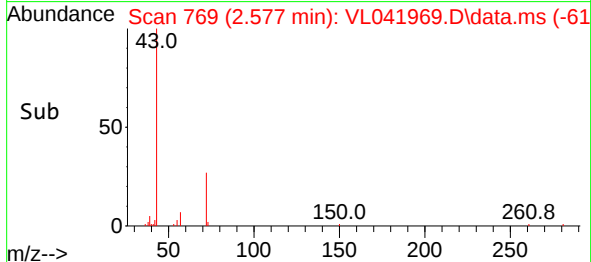
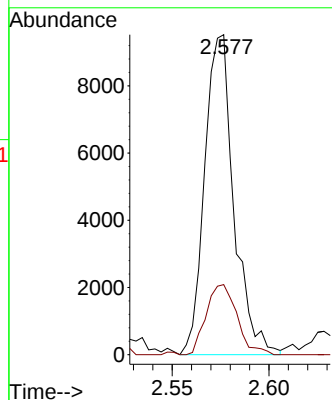
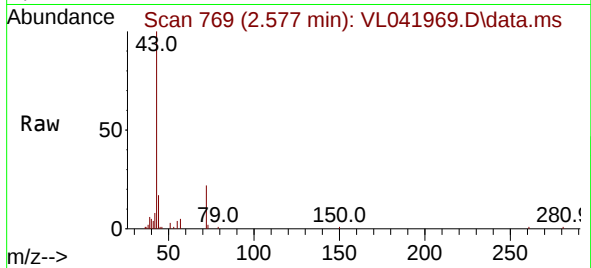




#34
2-Butanone
Concen: 0.369 ppbv
RT: 2.577 min Scan# 766
Delta R.T. 0.010 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

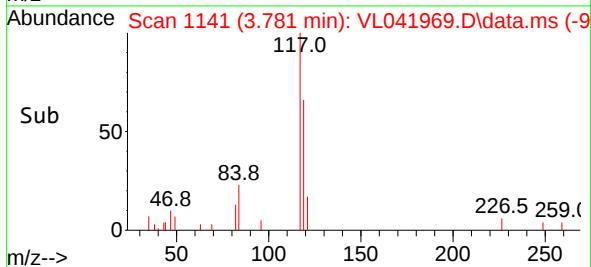
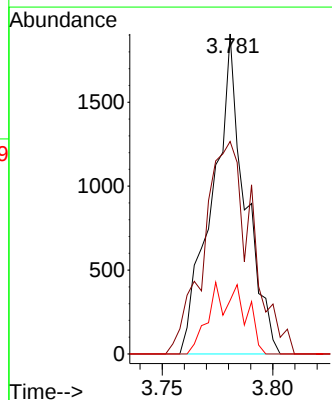
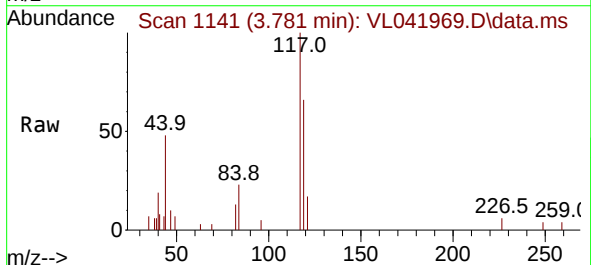
Instrument :
MSVOA_L
ClientSampleId :

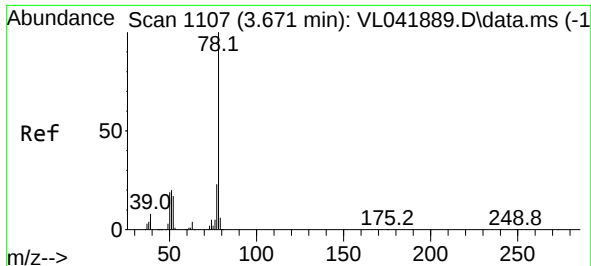
Tgt Ion: 43 Resp: 10009
Ion Ratio Lower Upper
43 100
72 23.1 18.6 28.0



#35
Carbon Tetrachloride
Concen: 0.073 ppbv
RT: 3.781 min Scan# 1141
Delta R.T. 0.003 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

Tgt Ion: 117 Resp: 1954
Ion Ratio Lower Upper
117 100
119 61.2 76.9 115.3#
121 16.8 23.8 35.6#

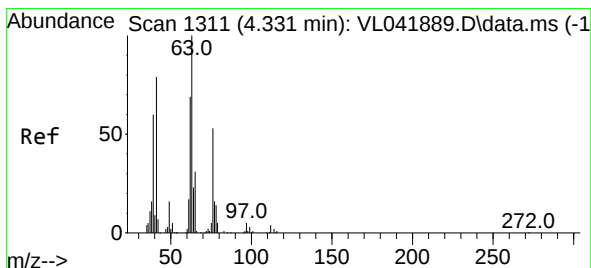
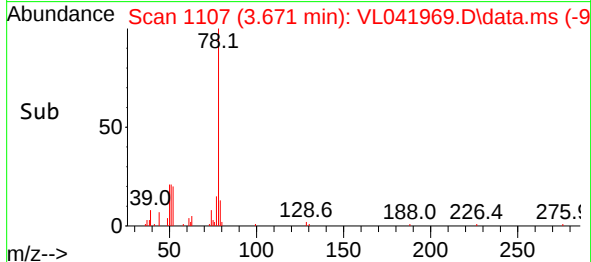
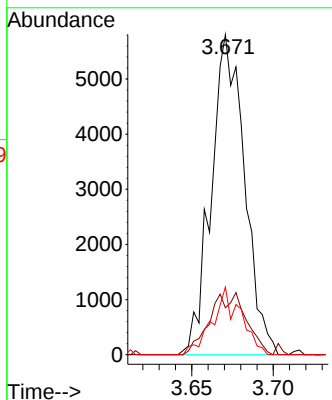
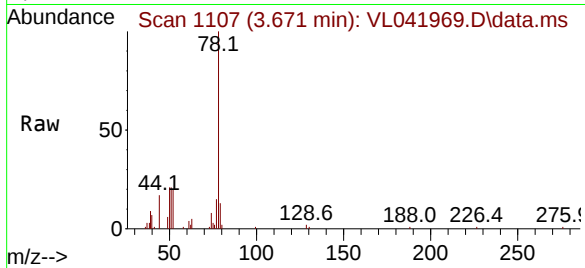




#36
Benzene
Concen: 0.211 ppbv
RT: 3.671 min Scan# 1107
Delta R.T. 0.000 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

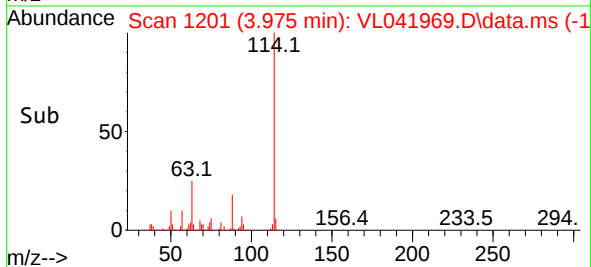
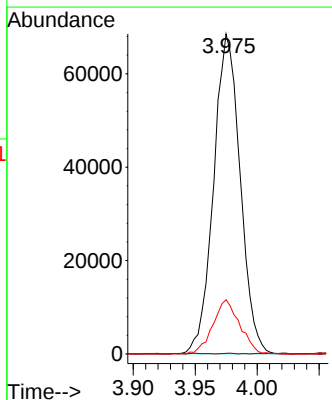
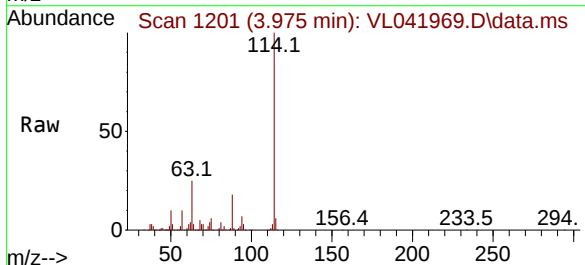
Instrument :
MSVOA_L
ClientSampleId :

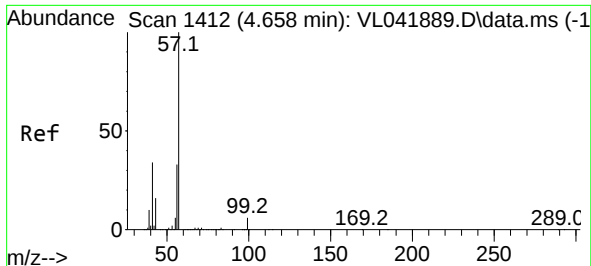
Tgt Ion: 78 Resp: 8262
Ion Ratio Lower Upper
78 100
77 14.6 18.1 27.1#
50 21.1 15.2 22.8



#39
1,2-Dichloropropane
Concen: 7.452 ppbv
RT: 3.975 min Scan# 1201
Delta R.T. -0.356 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

Tgt Ion: 63 Resp: 102219
Ion Ratio Lower Upper
63 100
41 0.2 63.7 95.5#
62 17.0 55.4 83.2#





#44

2,2,4-Trimethylpentane

Concen: 0.032 ppbv

RT: 4.668 min Scan# 1412

Delta R.T. 0.010 min

Lab File: VL041969.D

Acq: 03 Feb 2025 17:41

Instrument :

MSVOA_L

ClientSampleId :

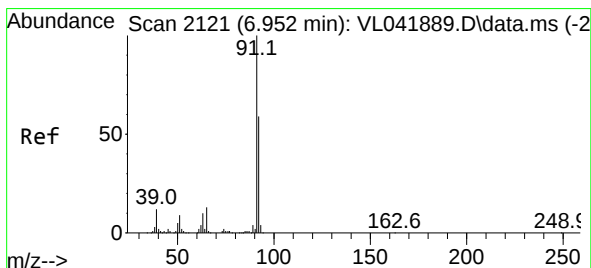
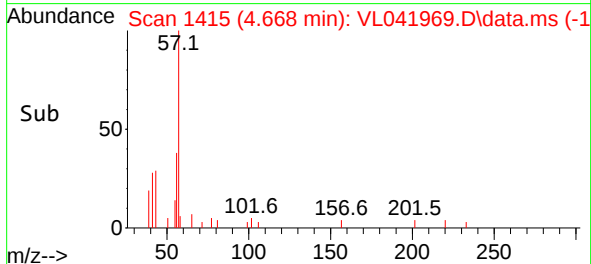
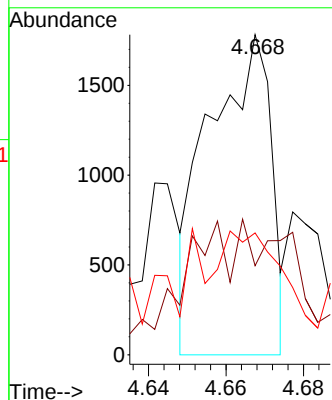
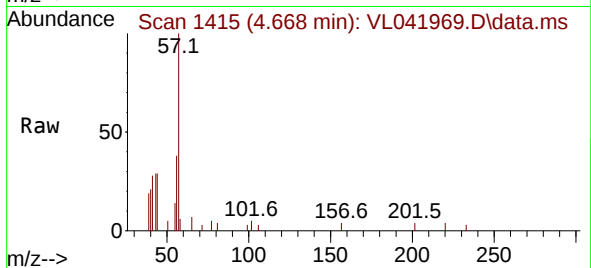
Tgt Ion: 57 Resp: 1996

Ion Ratio Lower Upper

57 100

41 85.9 26.6 40.0#

56 0.0 25.4 38.2#



#53

Toluene

Concen: 0.159 ppbv

RT: 6.956 min Scan# 2122

Delta R.T. 0.003 min

Lab File: VL041969.D

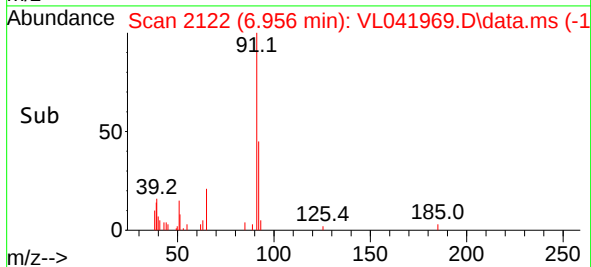
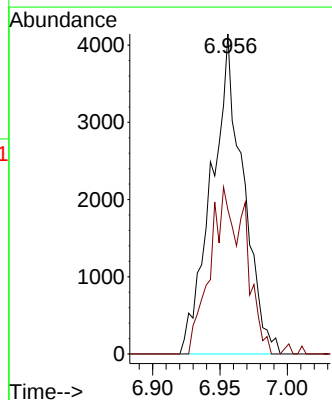
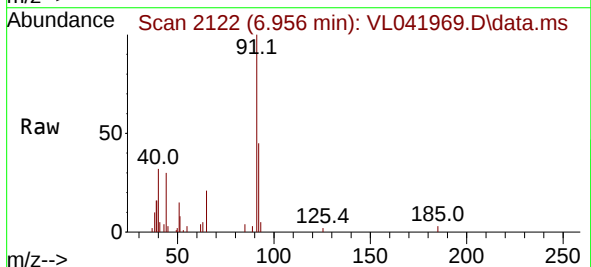
Acq: 03 Feb 2025 17:41

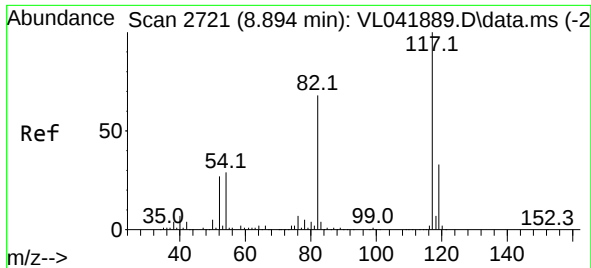
Tgt Ion: 91 Resp: 6774

Ion Ratio Lower Upper

91 100

92 58.8 47.4 71.0

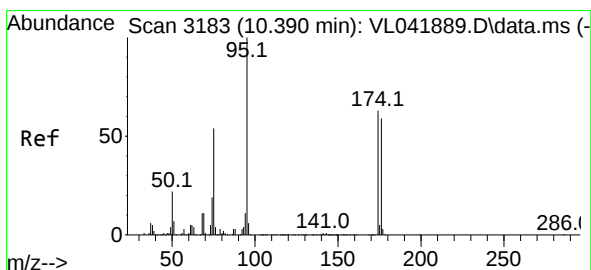
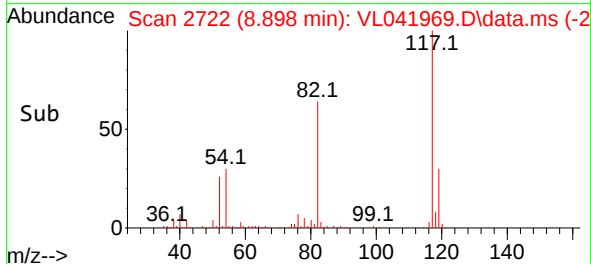
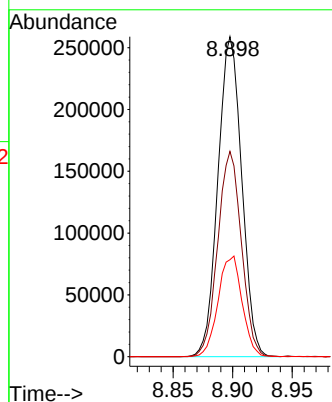
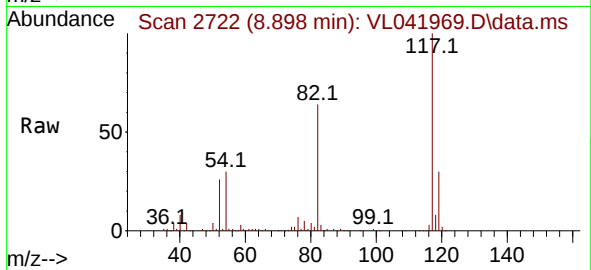




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.898 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

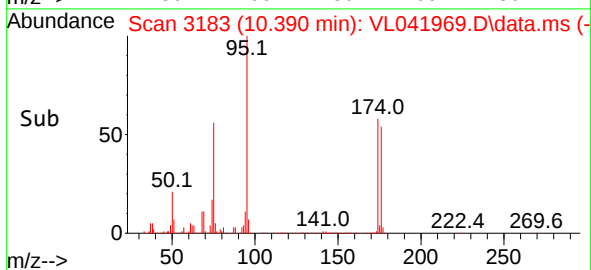
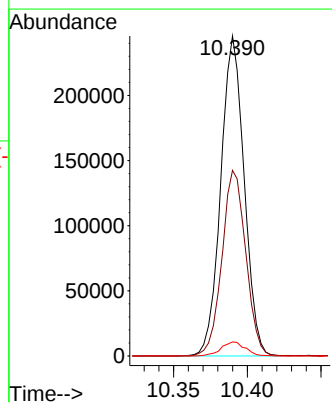
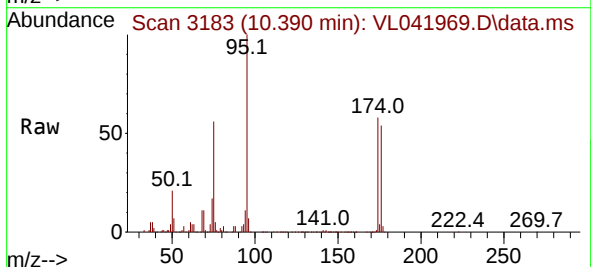
Instrument :
MSVOA_L
ClientSampleId :

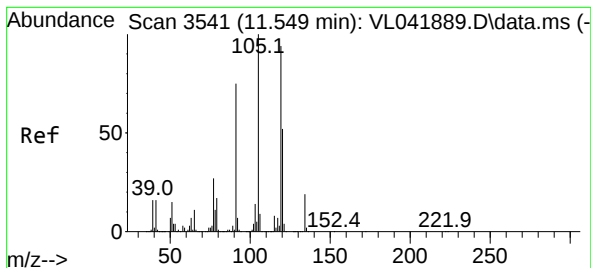
Tgt Ion:117 Resp: 359092
Ion Ratio Lower Upper
117 100
82 63.9 54.2 81.4
119 31.8 25.0 37.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.574 ppbv
RT: 10.390 min Scan# 3183
Delta R.T. 0.000 min
Lab File: VL041969.D
Acq: 03 Feb 2025 17:41

Tgt Ion: 95 Resp: 270791
Ion Ratio Lower Upper
95 100
174 59.2 49.0 73.4
175 4.5 3.8 5.8





#74

1,2,4-Trimethylbenzene

Concen: 0.032 ppbv

RT: 11.545 min Scan# 31

Delta R.T. -0.003 min

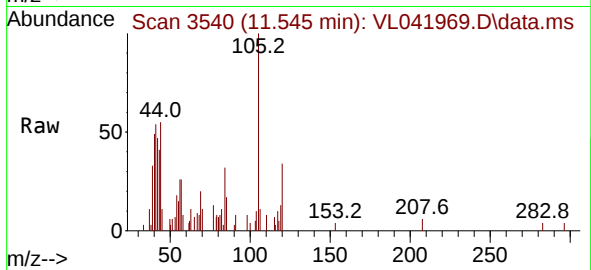
Lab File: VL041969.D

Acq: 03 Feb 2025 17:41

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:105 Resp: 1637

Ion Ratio Lower Upper

105 100

120 33.8 41.4 62.2#

91 8.2 60.2 90.2#

77 13.3 22.0 33.0#

