

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL081224\
 Data File : VL041531.D
 Acq On : 12 Aug 2024 11:24
 Operator : SY/MD
 Sample : P3496-07DL 40X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Aug 13 02:12:18 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL072524AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Aug 13 02:09:20 2024
 Response via : Initial Calibration

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

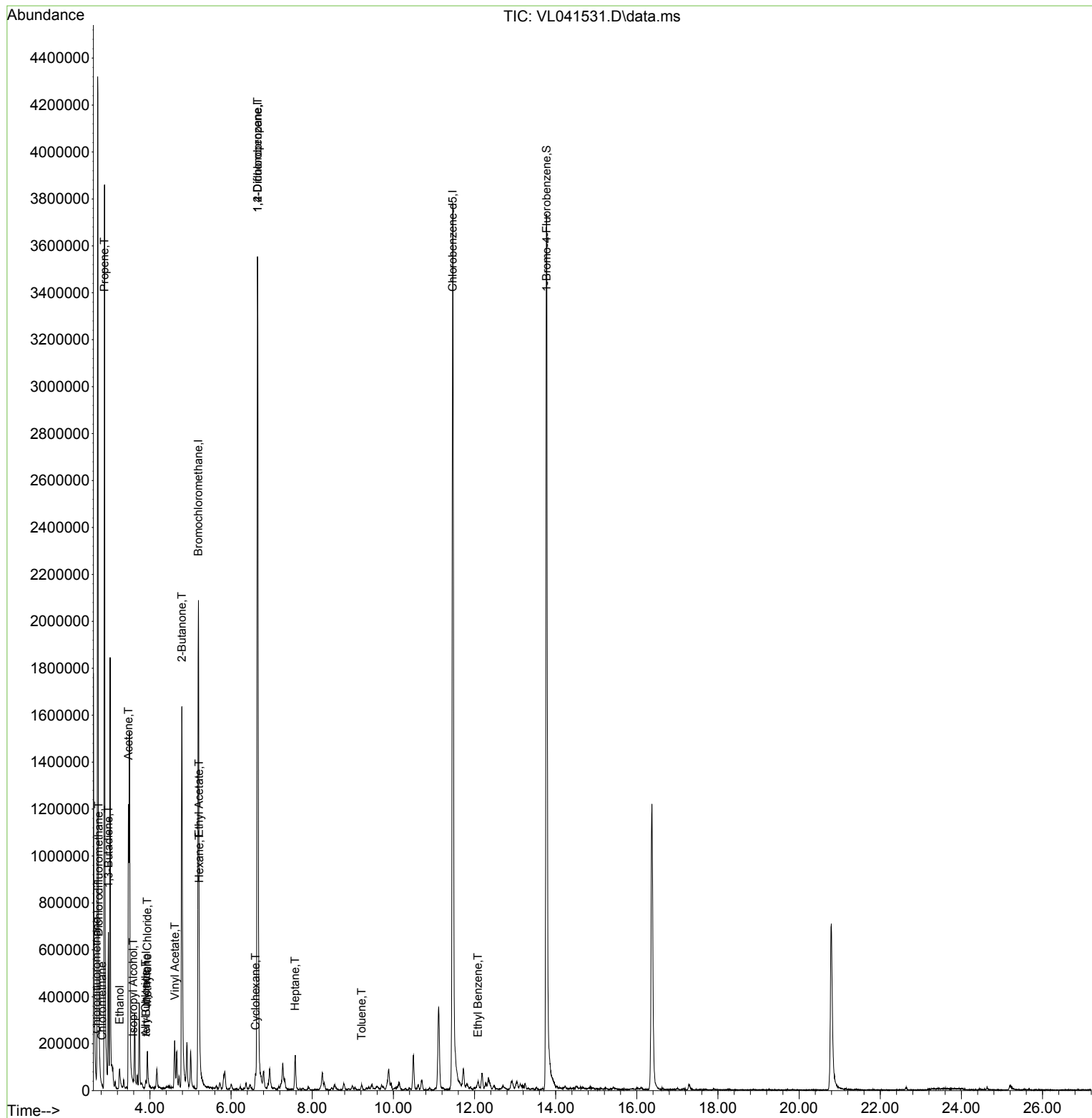
Internal Standards						
1) Bromochloromethane	5.195	49	1034566	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.652	114	2697928	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.465	117	2499657	10.000	ppbv	# 0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.773	95	1878821	9.767	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.739	85	42167	0.237	ppbv	94
3) Chlorodifluoromethane	2.681	51	12295	0.100	ppbv	100
4) Chloromethane	2.819	50	4482	0.068	ppbv	94
9) Propene	2.880	41	963152	17.024	ppbv	97
10) Heptane	7.581	43	51949	0.409	ppbv	94
13) Ethanol	3.253	45	107944	21.347	ppbv	92
15) Acetone	3.472	43	1043647	8.878	ppbv #	78
16) 1,3-Butadiene	2.976	39	145754	2.321	ppbv #	22
17) tert-Butyl alcohol	3.906	59	18918	0.176	ppbv #	72
19) Isopropyl Alcohol	3.591	45	16350	0.238	ppbv #	93
20) Methylene Chloride	3.938	84	45653	1.041	ppbv	96
21) Allyl Chloride	3.896	41	6339	0.082	ppbv #	77
23) Vinyl Acetate	4.613	43	100390	1.118	ppbv #	5
25) Ethyl Acetate	5.211	43	41544	0.178	ppbv #	82
26) Hexane	5.214	57	49564	0.512	ppbv #	4
30) Cyclohexane	6.603	84	13650	0.173	ppbv #	73
34) 2-Butanone	4.787	43	2032897	15.577	ppbv	100
39) 1,2-Dichloropropane	6.652	63	667587	8.845	ppbv #	25
53) Toluene	9.217	91	7450	0.034	ppbv #	68
58) Ethyl Benzene	12.085	91	10661	0.037	ppbv	94

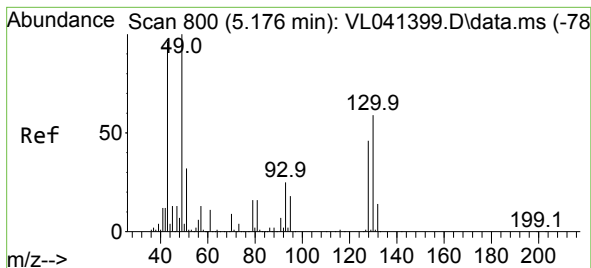
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.195 min Scan# 80

Delta R.T. 0.007 min

Lab File: VL041531.D

Acq: 12 Aug 2024 11:24

Instrument :

MSVOA_L

ClientSampleId :

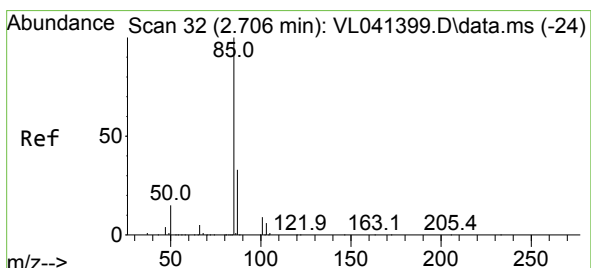
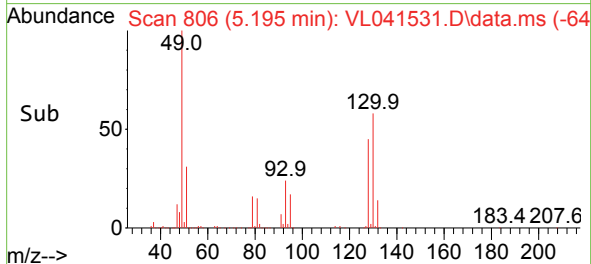
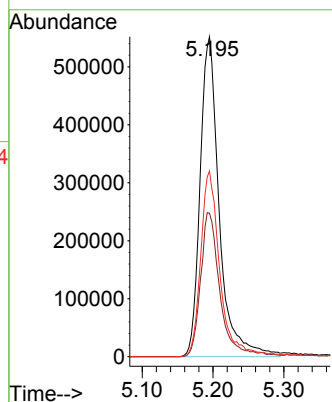
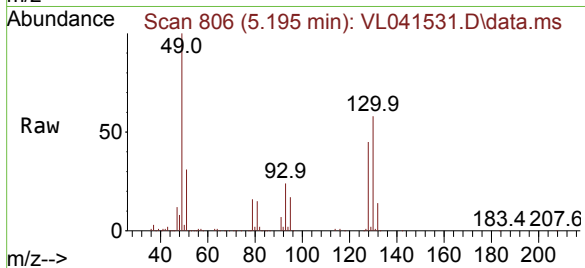
Tgt Ion: 49 Resp: 1034566

Ion Ratio Lower Upper

49 100

128 45.5 23.8 71.4

130 59.6 30.8 92.4



#2

Dichlorodifluoromethane

Concen: 0.237 ppbv

RT: 2.739 min Scan# 42

Delta R.T. 0.010 min

Lab File: VL041531.D

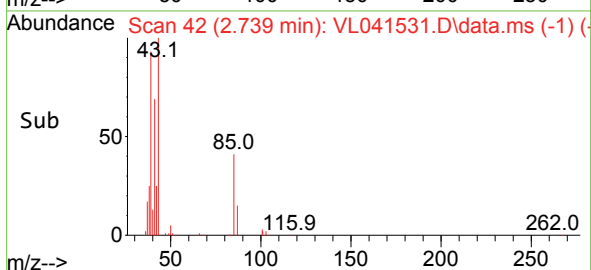
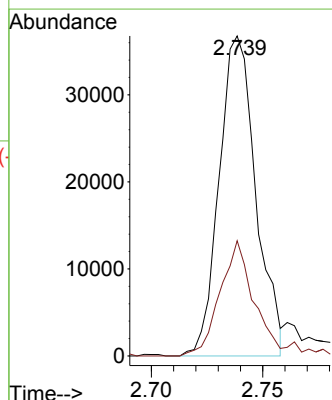
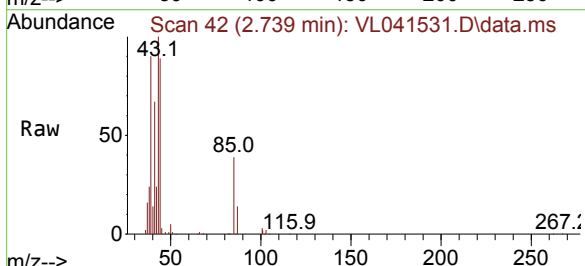
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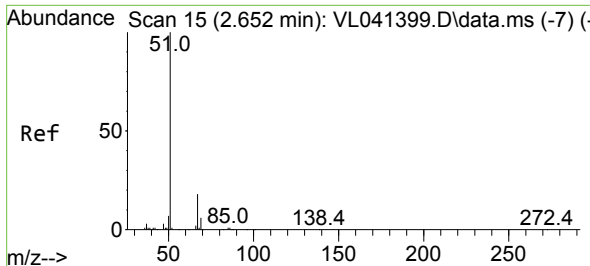
Tgt Ion: 85 Resp: 42167

Ion Ratio Lower Upper

85 100

87 36.0 26.0 39.0

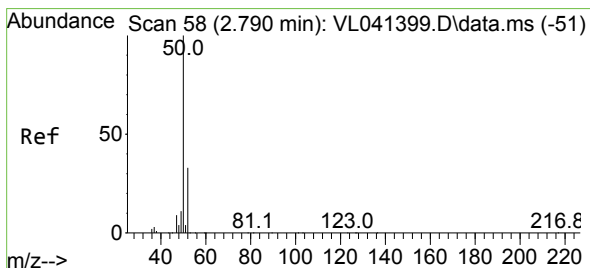
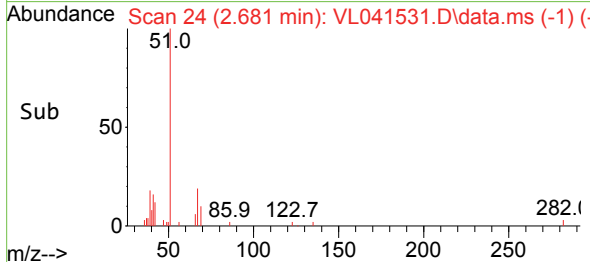
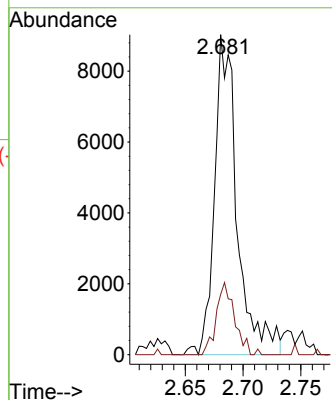
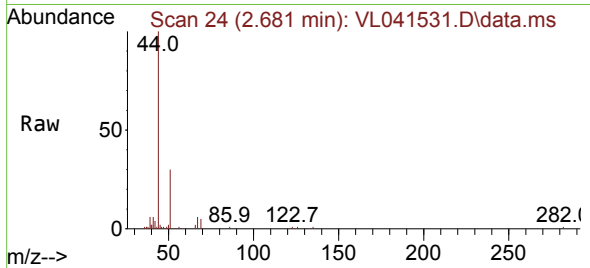




#3
Chlorodifluoromethane
Concen: 0.100 ppbv
RT: 2.681 min Scan# 24
Delta R.T. 0.007 min
Lab File: VL041531.D
Acq: 12 Aug 2024 11:24

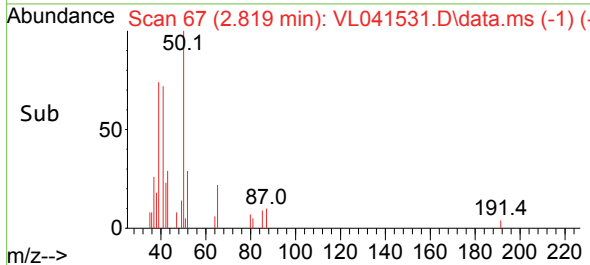
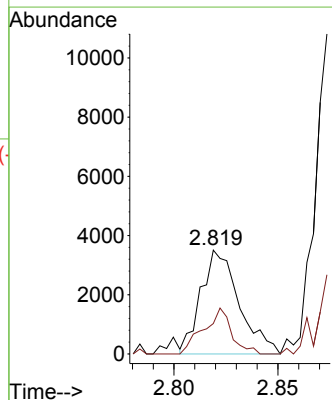
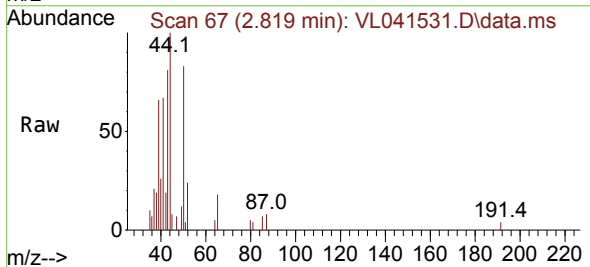
Instrument :
MSVOA_L
ClientSampleId :

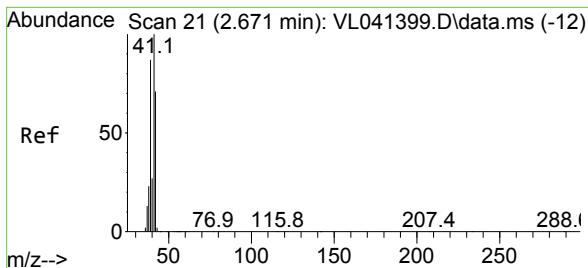
Tgt Ion: 51 Resp: 12295
Ion Ratio Lower Upper
51 100
67 18.3 14.5 21.7



#4
Chloromethane
Concen: 0.068 ppbv
RT: 2.819 min Scan# 67
Delta R.T. 0.007 min
Lab File: VL041531.D
Acq: 12 Aug 2024 11:24

Tgt Ion: 50 Resp: 4482
Ion Ratio Lower Upper
50 100
52 29.3 26.1 39.1





#9

Propene

Concen: 17.024 ppbv

RT: 2.880 min Scan# 80

Delta R.T. 0.187 min

Lab File: VL041531.D

Acq: 12 Aug 2024 11:24

Instrument :

MSVOA_L

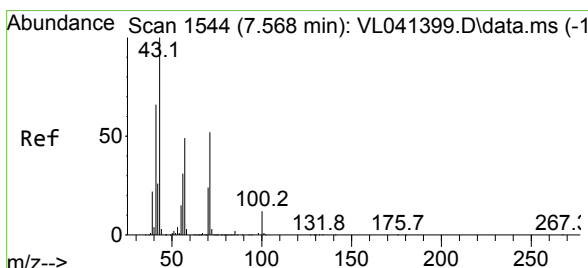
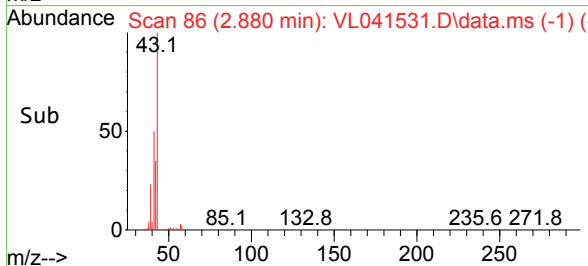
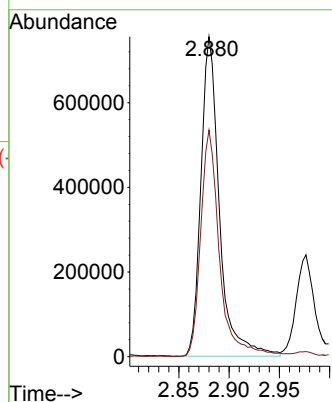
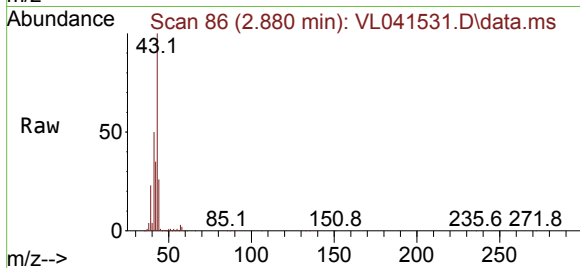
ClientSampleId :

Tgt Ion: 41 Resp: 963152

Ion Ratio Lower Upper

41 100

42 72.0 55.9 83.9



#10

Heptane

Concen: 0.409 ppbv

RT: 7.581 min Scan# 1548

Delta R.T. 0.003 min

Lab File: VL041531.D

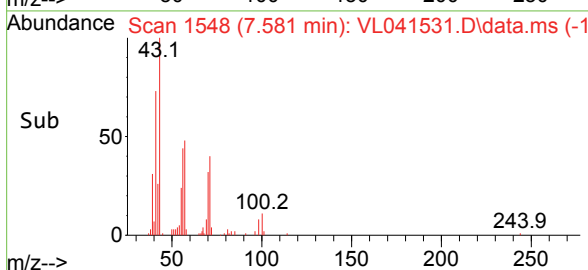
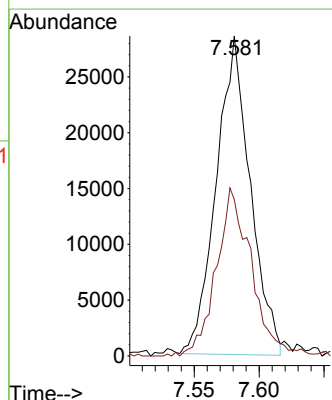
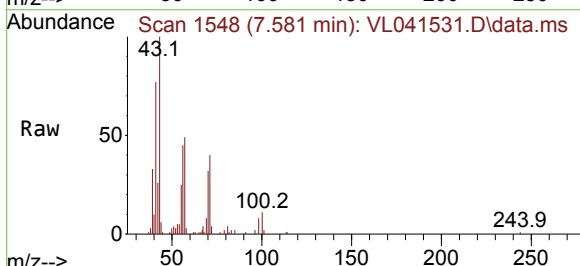
Acq: 12 Aug 2024 11:24

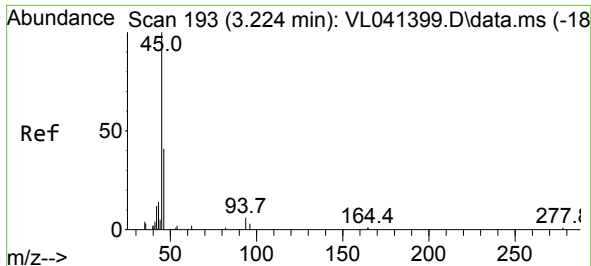
Tgt Ion: 43 Resp: 51949

Ion Ratio Lower Upper

43 100

57 54.9 40.5 60.7

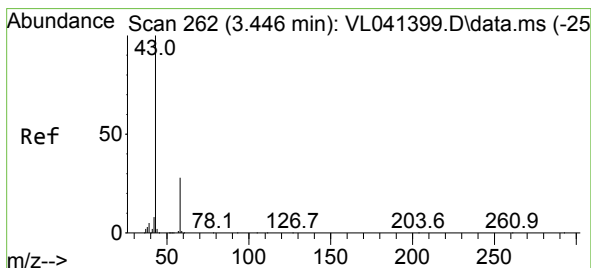
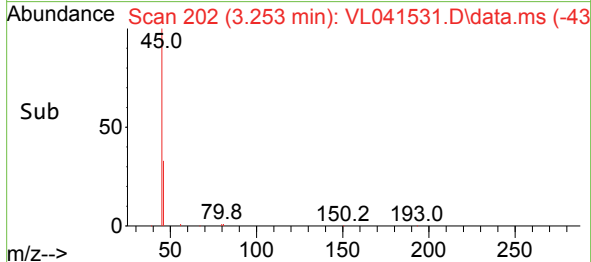
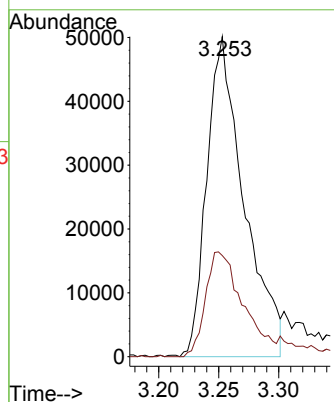
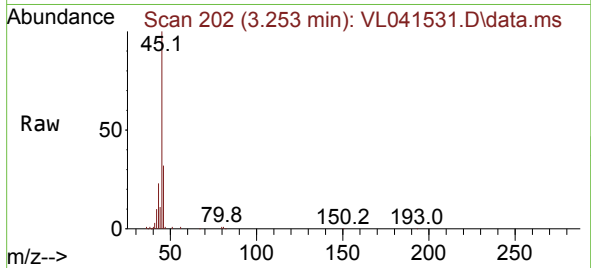




#13
Ethanol
Concen: 21.347 ppbv
RT: 3.253 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL041531.D
Acq: 12 Aug 2024 11:24

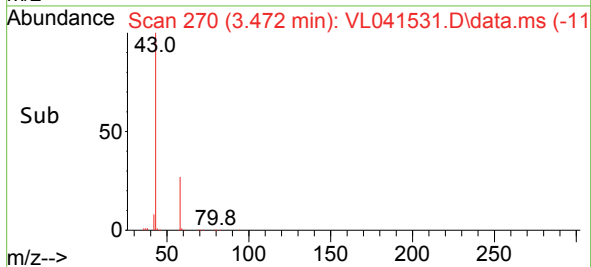
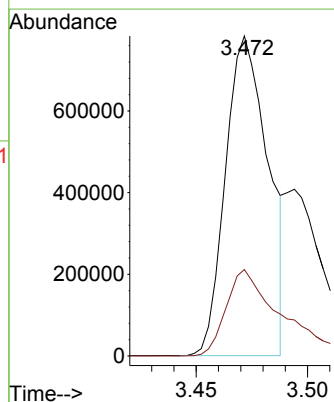
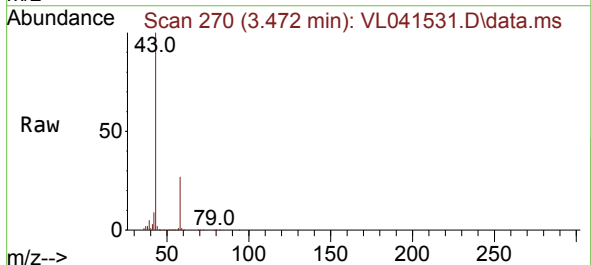
Instrument :
MSVOA_L
ClientSampleId :

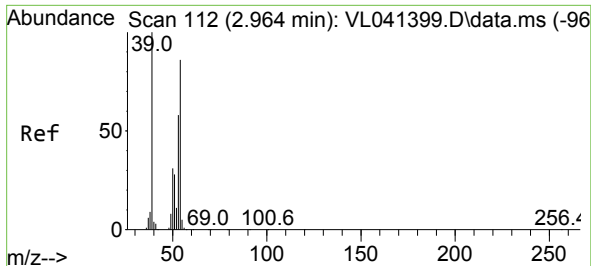
Tgt Ion: 45 Resp: 107944
Ion Ratio Lower Upper
45 100
46 37.8 13.4 53.4



#15
Acetone
Concen: 8.878 ppbv
RT: 3.472 min Scan# 270
Delta R.T. 0.003 min
Lab File: VL041531.D
Acq: 12 Aug 2024 11:24

Tgt Ion: 43 Resp: 1043647
Ion Ratio Lower Upper
43 100
58 38.2 21.4 32.2#

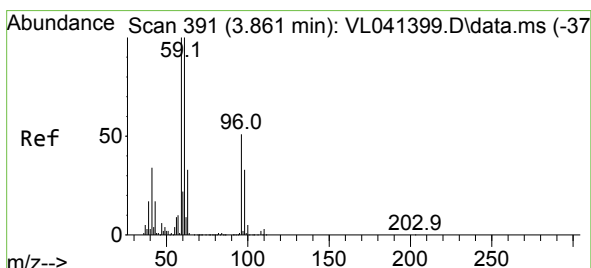
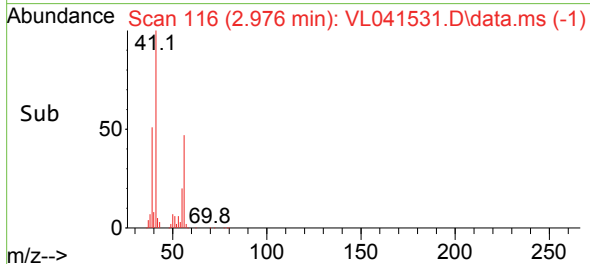
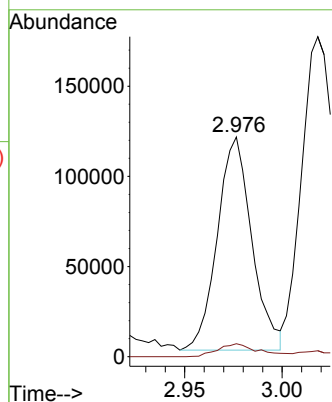
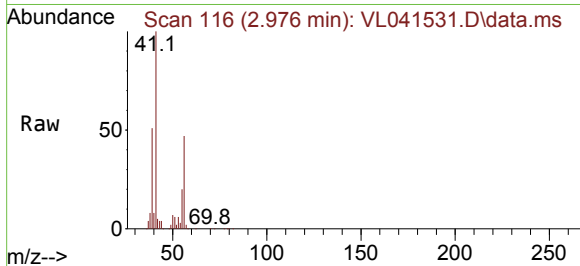




#16
1,3-Butadiene
Concen: 2.321 ppbv
RT: 2.976 min Scan# 11
Delta R.T. -0.010 min
Lab File: VL041531.D
Acq: 12 Aug 2024 11:24

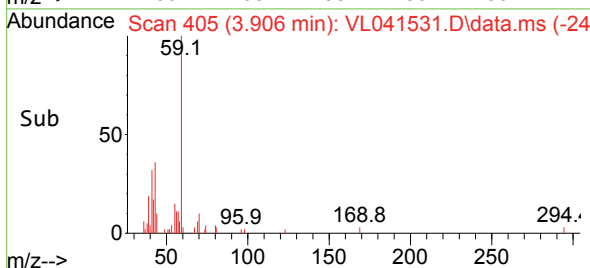
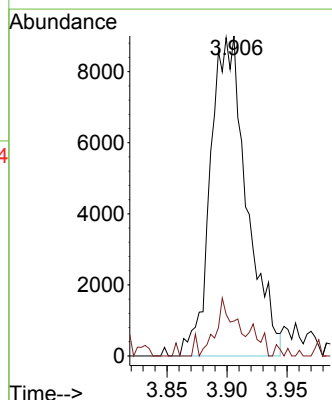
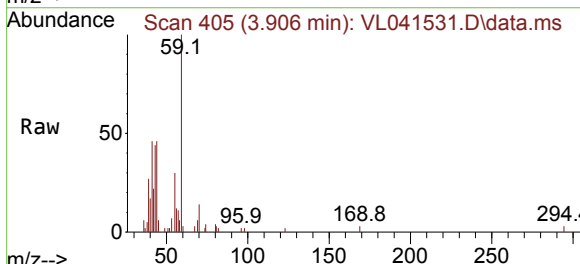
Instrument :
MSVOA_L
ClientSampleId :

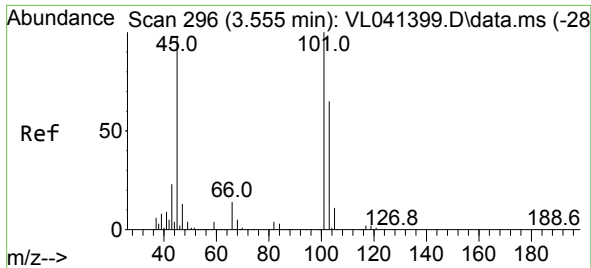
Tgt Ion: 39 Resp: 145754
Ion Ratio Lower Upper
39 100
54 10.4 62.5 93.7#



#17
tert-Butyl alcohol
Concen: 0.176 ppbv
RT: 3.906 min Scan# 405
Delta R.T. 0.029 min
Lab File: VL041531.D
Acq: 12 Aug 2024 11:24

Tgt Ion: 59 Resp: 18918
Ion Ratio Lower Upper
59 100
57 0.0 8.6 12.8#

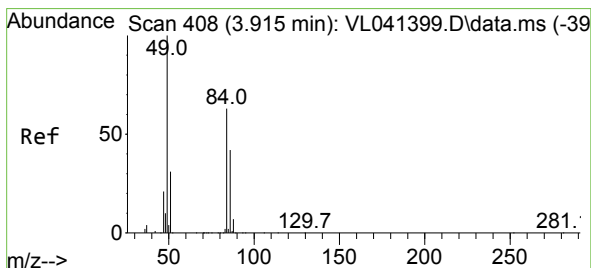
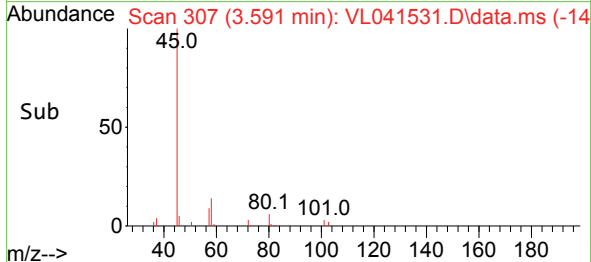
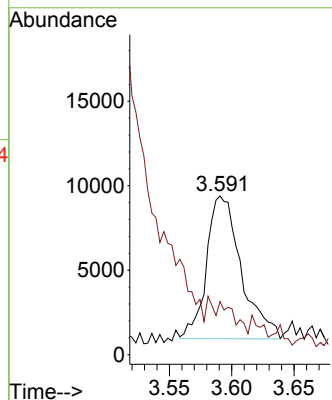
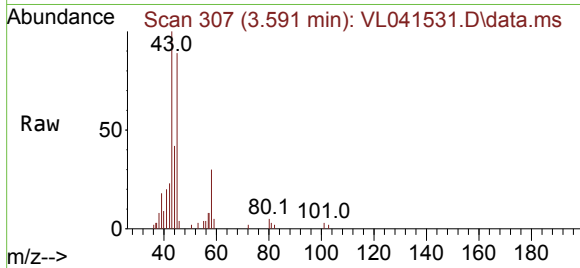




#19
Isopropyl Alcohol
Concen: 0.238 ppbv
RT: 3.591 min Scan# 307
Delta R.T. 0.016 min
Lab File: VL041531.D
Acq: 12 Aug 2024 11:24

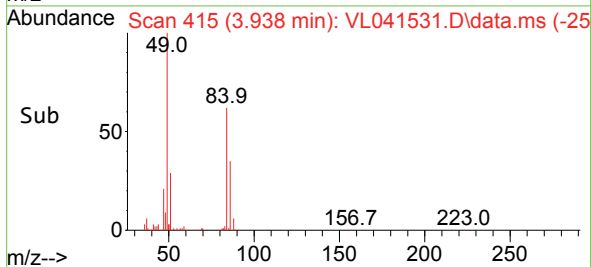
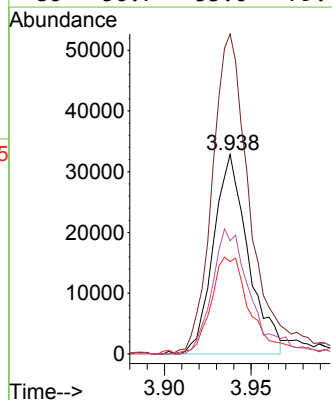
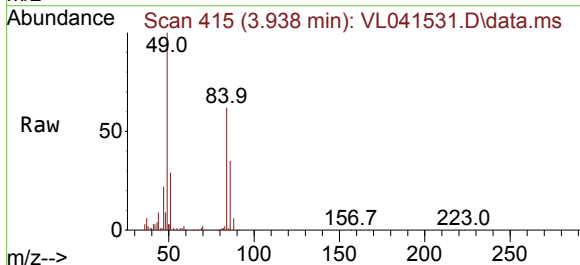
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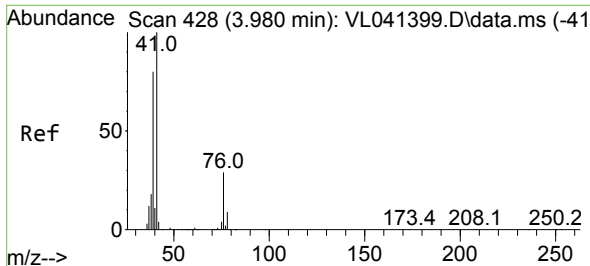
Tgt Ion: 45 Resp: 16350
Ion Ratio Lower Upper
45 100
58 0.0 1.9 2.9#



#20
Methylene Chloride
Concen: 1.041 ppbv
RT: 3.938 min Scan# 415
Delta R.T. 0.007 min
Lab File: VL041531.D
Acq: 12 Aug 2024 11:24

Tgt Ion: 84 Resp: 45653
Ion Ratio Lower Upper
84 100
49 158.3 126.6 190.0
51 45.4 38.6 58.0
86 56.7 53.0 79.4

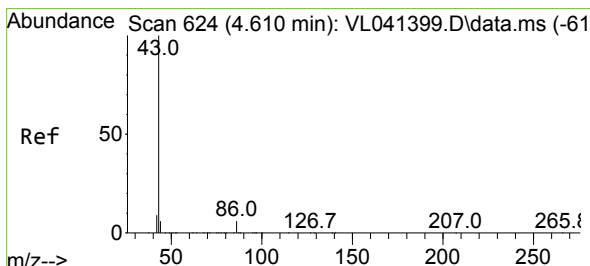
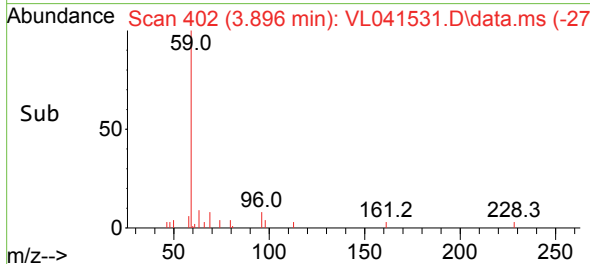
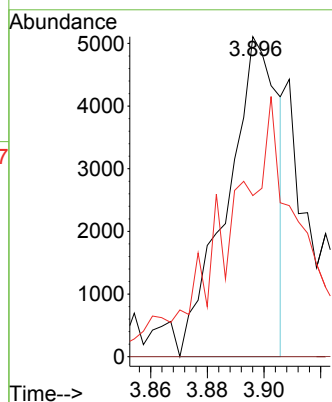
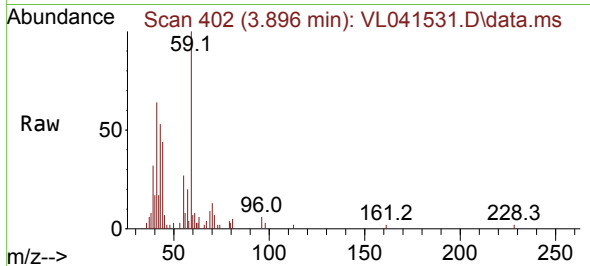




#21
 Allyl Chloride
 Concen: 0.082 ppbv
 RT: 3.896 min Scan# 41
 Delta R.T. -0.100 min
 Lab File: VL041531.D
 Acq: 12 Aug 2024 11:24

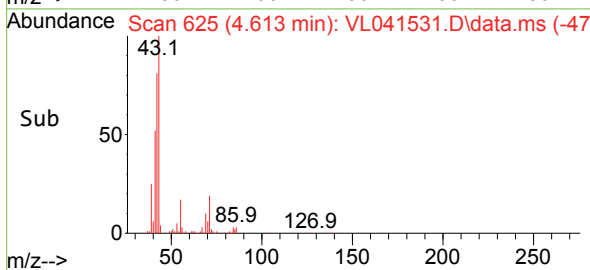
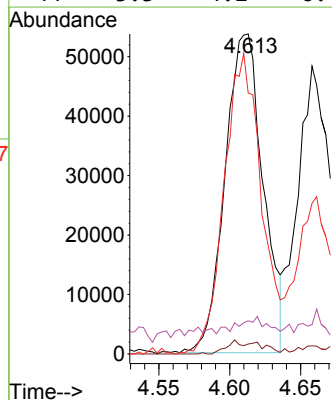
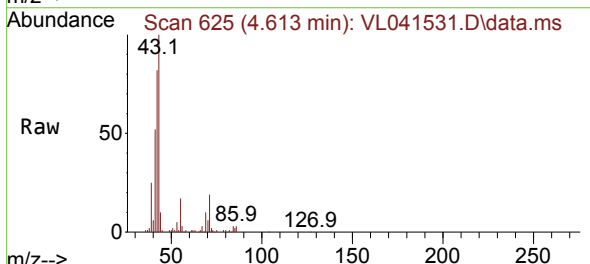
Instrument :
 MSVOA_L
 ClientSampleId :

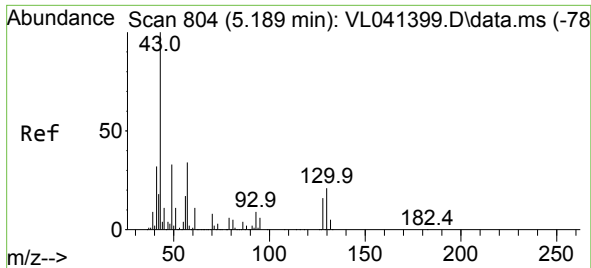
Tgt Ion: 41 Resp: 6339
 Ion Ratio Lower Upper
 41 100
 76 0.0 23.7 35.5#
 39 90.6 64.3 96.5



#23
 Vinyl Acetate
 Concen: 1.118 ppbv
 RT: 4.613 min Scan# 625
 Delta R.T. -0.013 min
 Lab File: VL041531.D
 Acq: 12 Aug 2024 11:24

Tgt Ion: 43 Resp: 100390
 Ion Ratio Lower Upper
 43 100
 86 3.1 4.6 6.8#
 42 81.1 7.9 11.9#
 44 3.3 4.2 6.4#

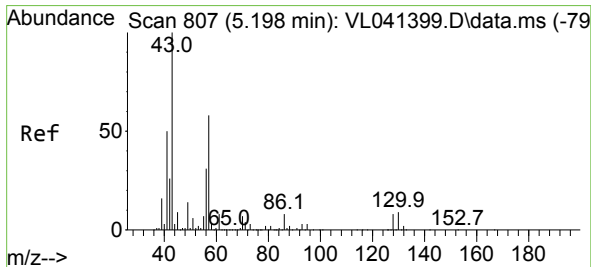
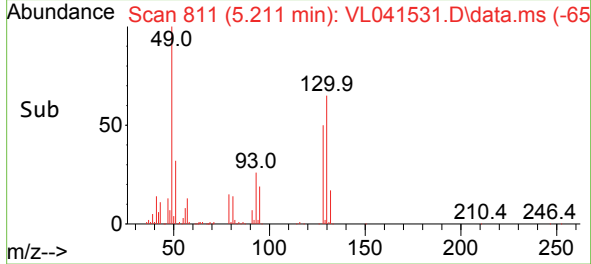
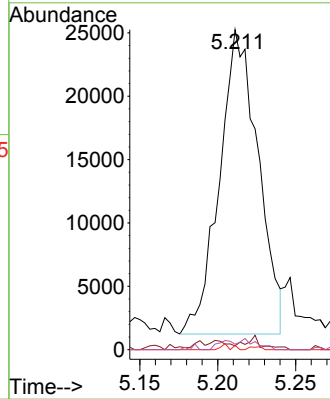
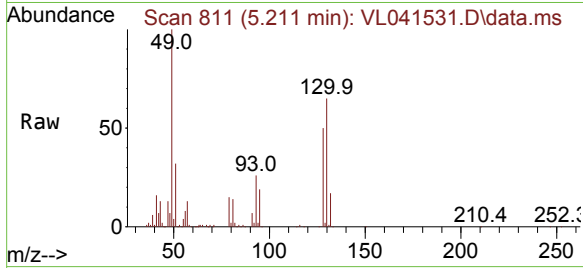




#25
Ethyl Acetate
Concen: 0.178 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.010 min
Lab File: VL041531.D
Acq: 12 Aug 2024 11:24

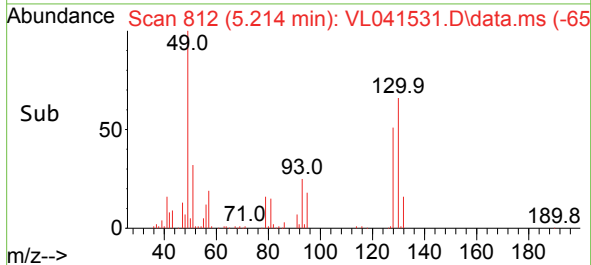
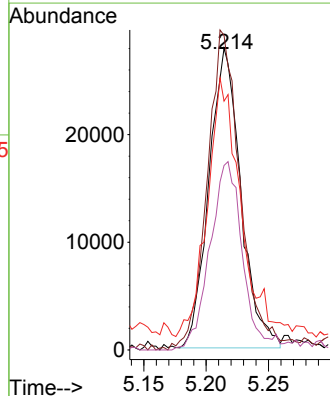
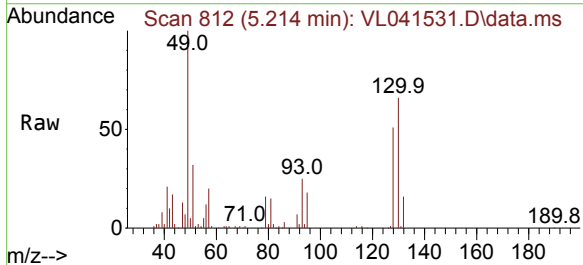
Instrument :
MSVOA_L
ClientSampleId :

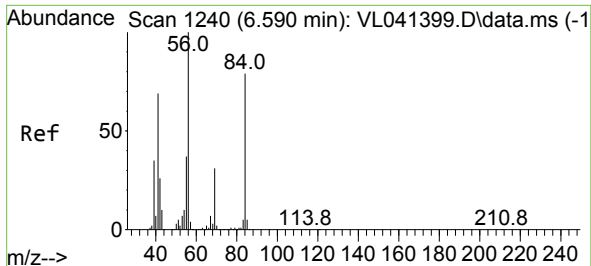
Tgt Ion: 43	Resp: 41544
Ion Ratio	Lower Upper
43	100
45	5.1 8.5 12.7#
61	0.5 8.0 12.0#
70	3.2 5.9 8.9#



#26
Hexane
Concen: 0.512 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL041531.D
Acq: 12 Aug 2024 11:24

Tgt Ion: 57	Resp: 49564
Ion Ratio	Lower Upper
57	100
41	112.8 74.0 111.0#
43	0.0 193.6 290.4#
56	65.9 43.1 64.7#

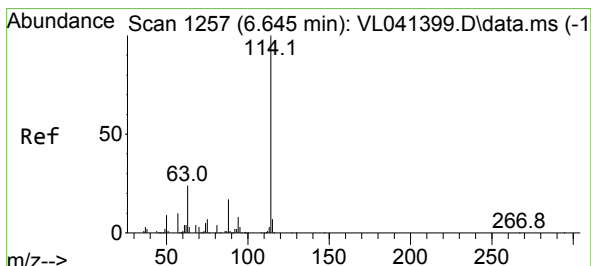
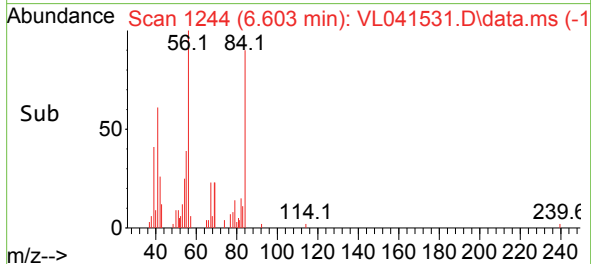
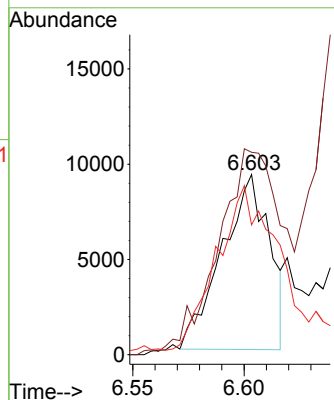
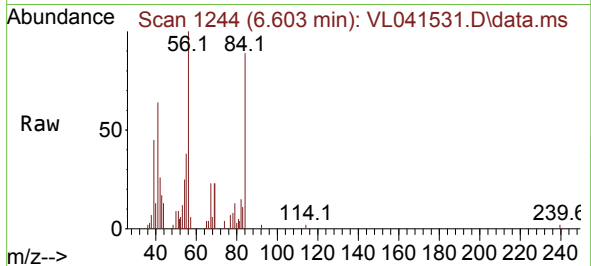




#30
Cyclohexane
Concen: 0.173 ppbv
RT: 6.603 min Scan# 1240
Delta R.T. 0.003 min
Lab File: VL041531.D
Acq: 12 Aug 2024 11:24

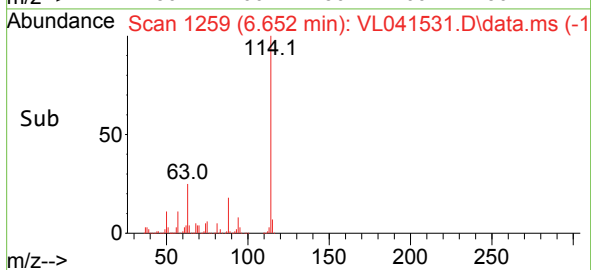
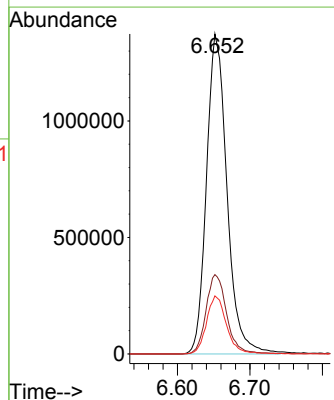
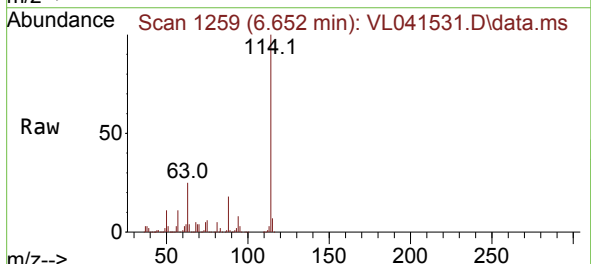
Instrument :
MSVOA_L
ClientSampleId :

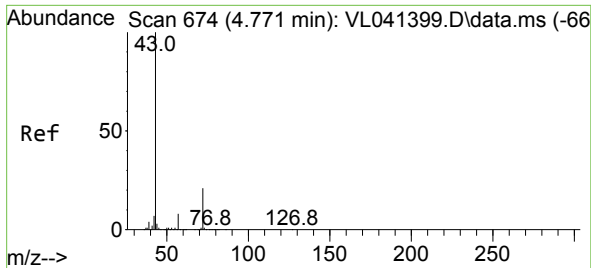
Tgt Ion: 84 Resp: 13650
Ion Ratio Lower Upper
84 100
56 149.4 111.2 166.8
41 141.0 70.3 105.5#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.652 min Scan# 1259
Delta R.T. 0.000 min
Lab File: VL041531.D
Acq: 12 Aug 2024 11:24

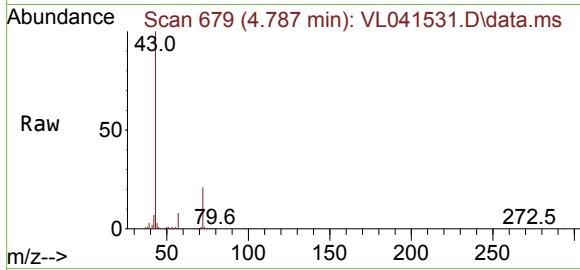
Tgt Ion: 114 Resp: 2697928
Ion Ratio Lower Upper
114 100
63 25.1 20.3 30.5
88 17.8 14.3 21.5



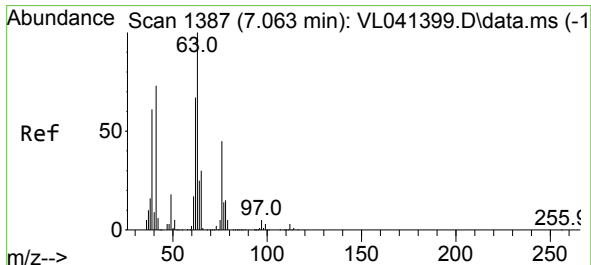
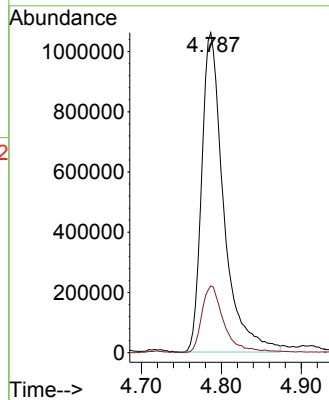
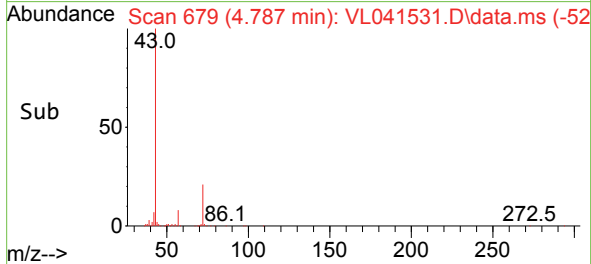


#34
2-Butanone
Concen: 15.577 ppbv
RT: 4.787 min Scan# 61
Delta R.T. 0.003 min
Lab File: VL041531.D
Acq: 12 Aug 2024 11:24

Instrument :
MSVOA_L
ClientSampleId :

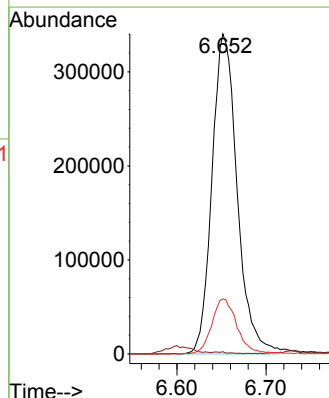
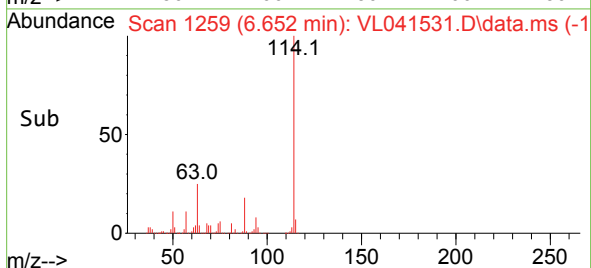
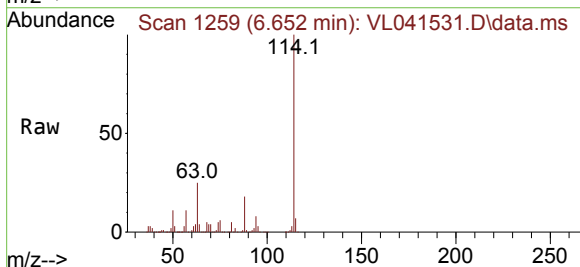


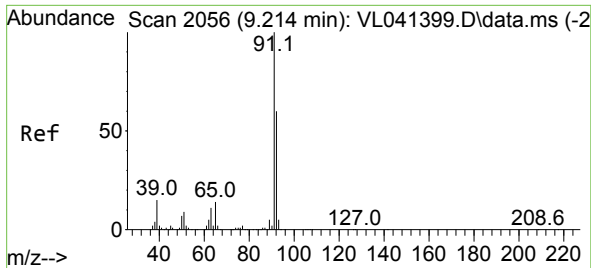
Tgt Ion: 43 Resp: 2032897
Ion Ratio Lower Upper
43 100
72 21.6 17.3 25.9



#39
1,2-Dichloropropane
Concen: 8.845 ppbv
RT: 6.652 min Scan# 1259
Delta R.T. -0.421 min
Lab File: VL041531.D
Acq: 12 Aug 2024 11:24

Tgt Ion: 63 Resp: 667587
Ion Ratio Lower Upper
63 100
41 0.3 58.3 87.5#
62 17.2 53.9 80.9#

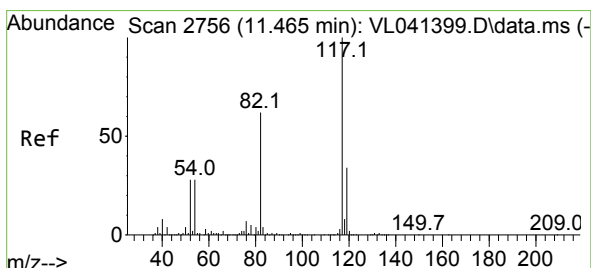
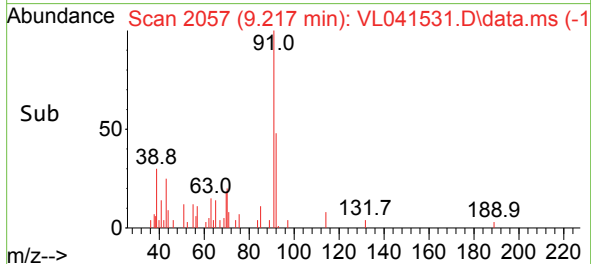
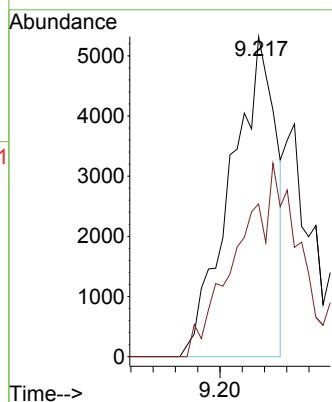
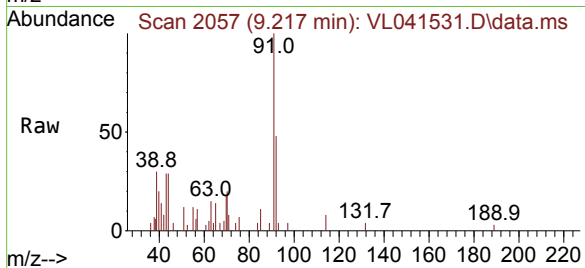




#53
Toluene
Concen: 0.034 ppbv
RT: 9.217 min Scan# 2056
Delta R.T. -0.003 min
Lab File: VL041531.D
Acq: 12 Aug 2024 11:24

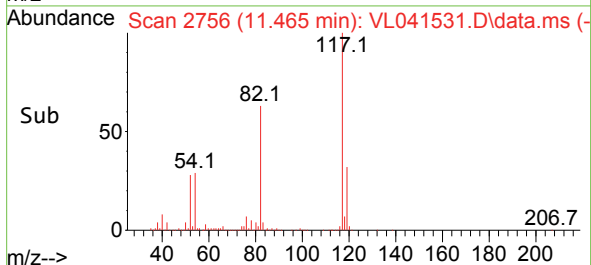
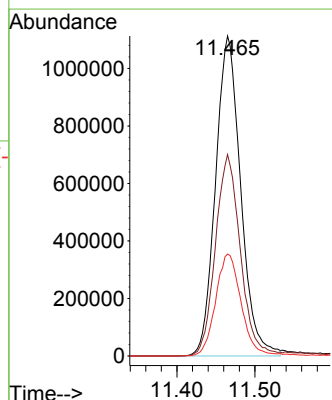
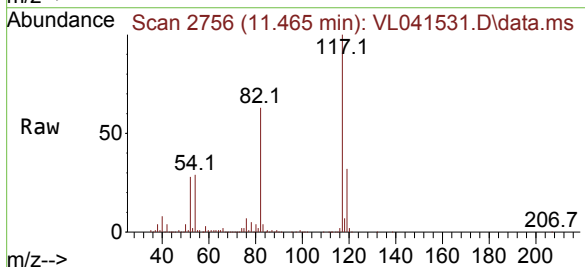
Instrument :
MSVOA_L
ClientSampleId :

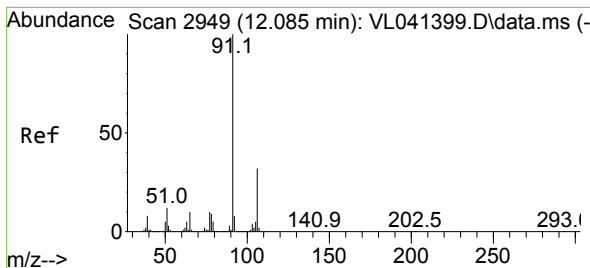
Tgt Ion: 91 Resp: 7450
Ion Ratio Lower Upper
91 100
92 85.0 48.7 73.1#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.465 min Scan# 2756
Delta R.T. 0.000 min
Lab File: VL041531.D
Acq: 12 Aug 2024 11:24

Tgt Ion: 117 Resp: 2499657
Ion Ratio Lower Upper
117 100
82 64.2 51.0 76.6
119 33.1 45.2 67.8#

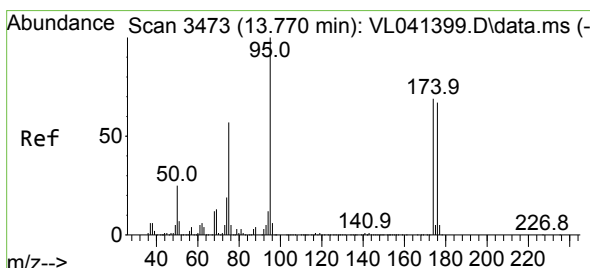
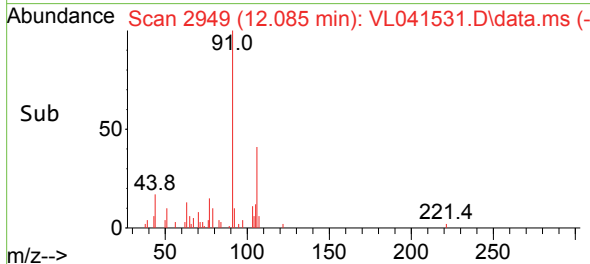
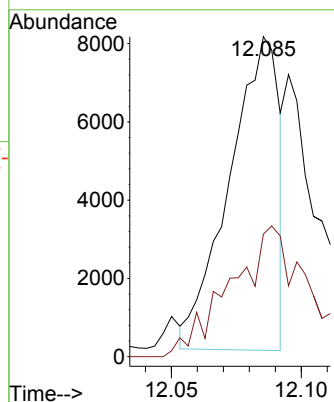
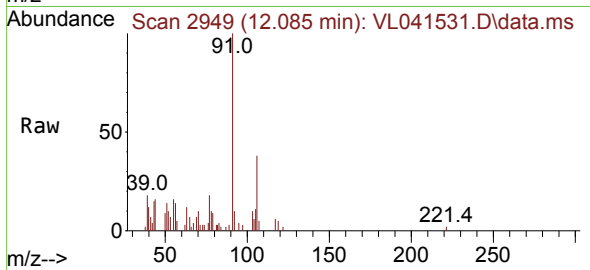




#58
Ethyl Benzene
Concen: 0.037 ppbv
RT: 12.085 min Scan# 2949
Delta R.T. 0.000 min
Lab File: VL041531.D
Acq: 12 Aug 2024 11:24

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 91 Resp: 10661
Ion Ratio Lower Upper
91 100
106 35.8 25.8 38.8



#68
1-Bromo-4-Fluorobenzene
Concen: 9.767 ppbv
RT: 13.773 min Scan# 3474
Delta R.T. 0.000 min
Lab File: VL041531.D
Acq: 12 Aug 2024 11:24

Tgt Ion: 95 Resp: 1878821
Ion Ratio Lower Upper
95 100
174 72.3 56.3 84.5
175 5.3 4.0 6.0

