

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL011425\
 Data File : VL041903.D
 Acq On : 14 Jan 2025 21:47
 Operator : SY/MD
 Sample : Q1073-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 15 03:28:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-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	2.793	49	134154	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	393472	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.888	117	335047	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.383	95	271840	10.301	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.000%

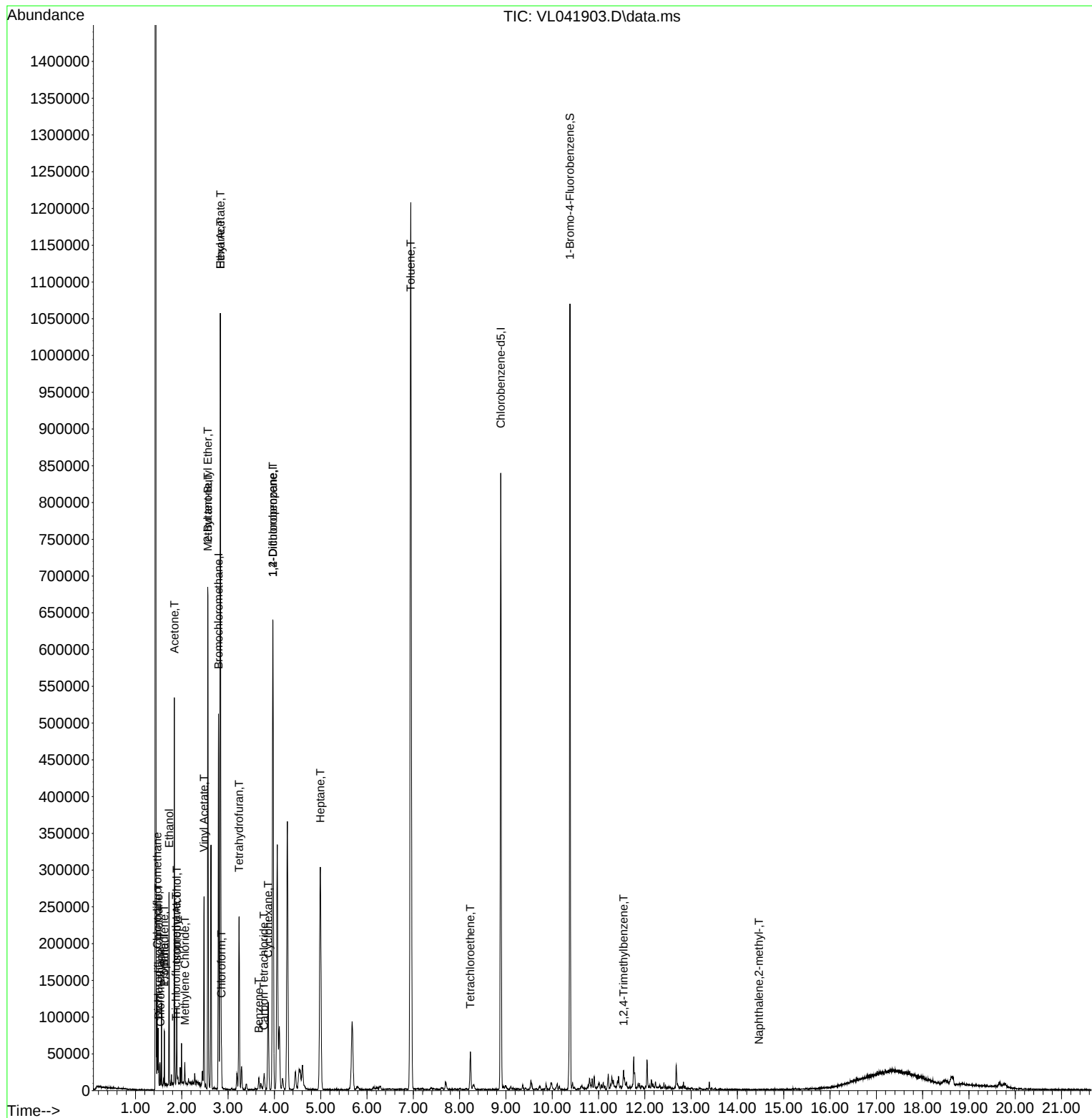
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.499	85	7195	0.394	ppbv	96
3) Chlorodifluoromethane	1.470	51	37252	1.946	ppbv #	67
4) Chloromethane	1.534	50	3634	0.529	ppbv	96
9) Propene	1.622	41	7672	0.973	ppbv	87
10) Heptane	4.991	43	132549	6.288	ppbv	98
11) Trichlorofluoromethane	1.881	101	5859	0.308	ppbv	90
13) Ethanol	1.725	45	95241	164.886	ppbv	87
15) Acetone	1.839	43	213102	13.226	ppbv	99
16) 1,3-Butadiene	1.622	39	3935	0.544	ppbv #	32
19) Isopropyl Alcohol	1.890	45	41786	4.374	ppbv #	1
20) Methylene Chloride	2.068	84	3794	0.596	ppbv #	78
23) Vinyl Acetate	2.479	43	75289	9.426	ppbv #	49
25) Ethyl Acetate	2.832	43	176855	4.070	ppbv #	77
26) Hexane	2.832	57	254475	14.808	ppbv #	35
28) Methyl tert-Butyl Ether	2.564	73	4418	0.336	ppbv #	1
29) Chloroform	2.855	83	21538	0.793	ppbv	95
30) Cyclohexane	3.865	84	31823	2.135	ppbv	98
34) 2-Butanone	2.560	43	414763	16.575	ppbv	99
35) Carbon Tetrachloride	3.774	117	1820	0.074	ppbv #	64
36) Benzene	3.664	78	9360	0.259	ppbv #	93
39) 1,2-Dichloropropane	3.968	63	97239	7.681	ppbv #	22
41) Tetrahydrofuran	3.237	42	16905	1.243	ppbv #	36
52) Tetrachloroethene	8.231	164	8591	0.687	ppbv	92
53) Toluene	6.943	91	897997	22.844	ppbv	100
74) 1,2,4-Trimethylbenzene	11.542	105	6823	0.143	ppbv #	60
80) Naphthalene,2-methyl-	14.468	142	105	0.005	ppbv #	44

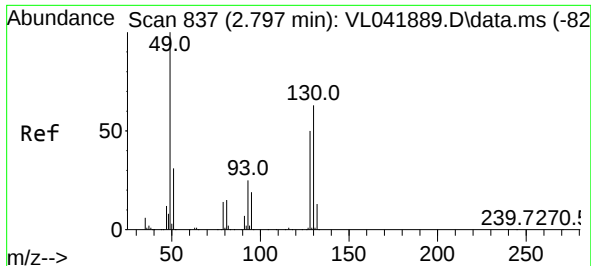
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011425AIR.M
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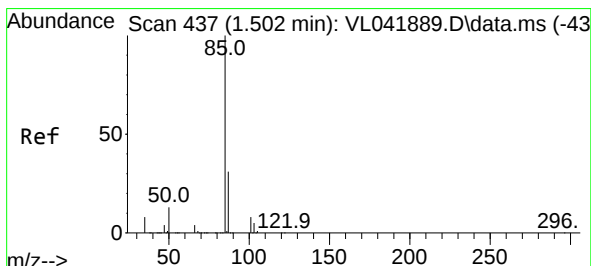
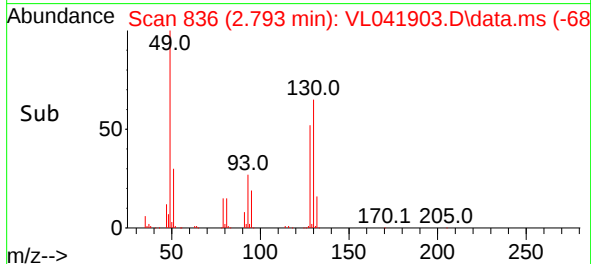
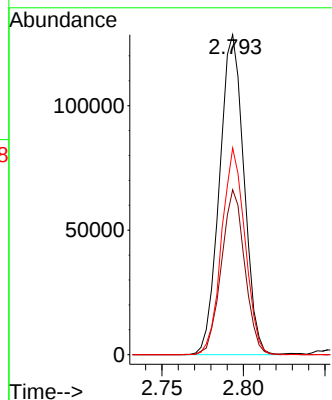
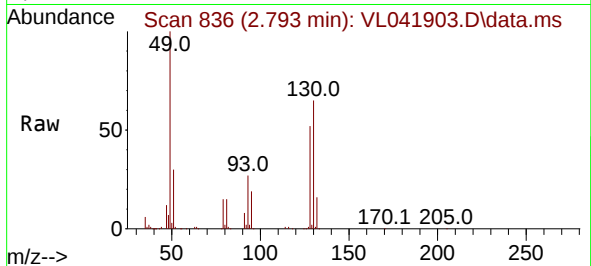




#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 2.793 min Scan# 81
 Delta R.T. -0.004 min
 Lab File: VL041903.D
 Acq: 14 Jan 2025 21:47

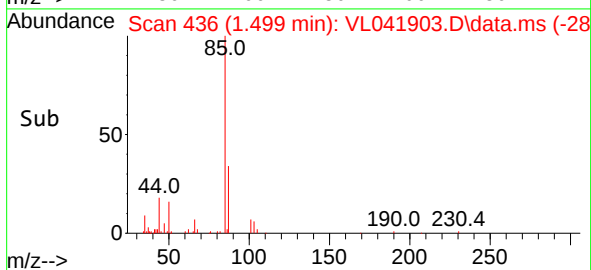
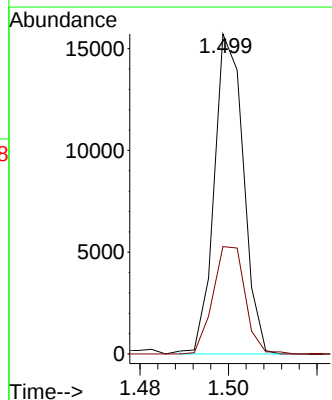
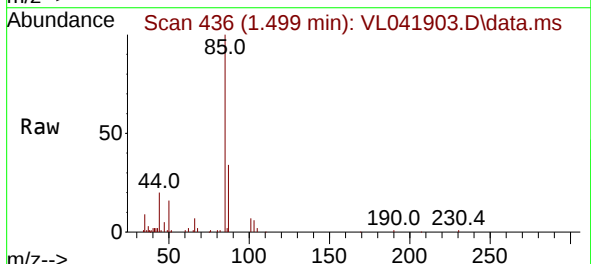
Instrument :
 MSVOA_L
 ClientSampleId :

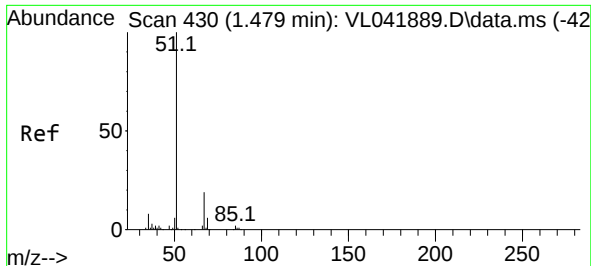
Tgt Ion: 49 Resp: 134154
 Ion Ratio Lower Upper
 49 100
 128 49.1 24.3 73.0
 130 61.6 31.1 93.2



#2
 Dichlorodifluoromethane
 Concen: 0.394 ppbv
 RT: 1.499 min Scan# 436
 Delta R.T. -0.003 min
 Lab File: VL041903.D
 Acq: 14 Jan 2025 21:47

Tgt Ion: 85 Resp: 7195
 Ion Ratio Lower Upper
 85 100
 87 33.5 24.9 37.3

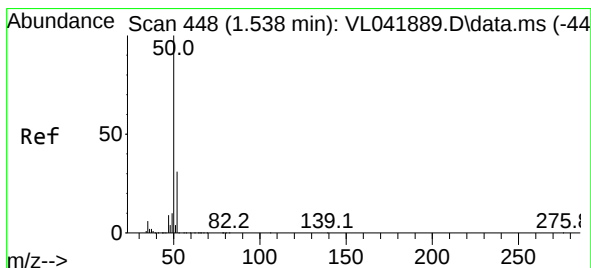
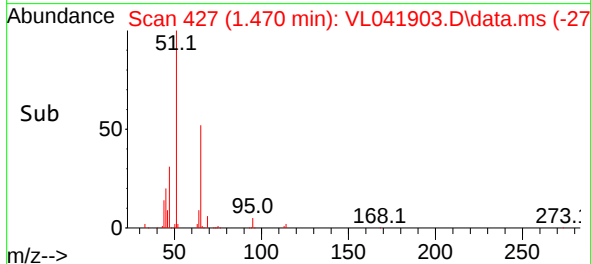
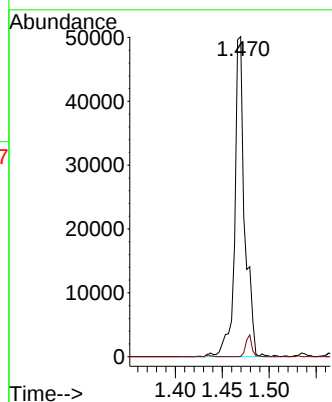
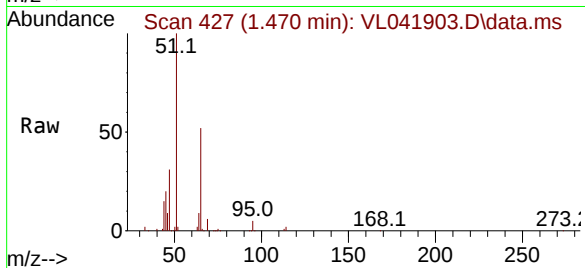




#3
Chlorodifluoromethane
Concen: 1.946 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

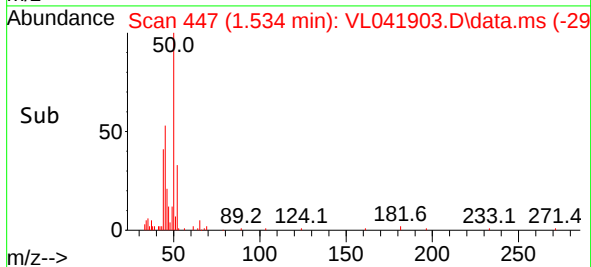
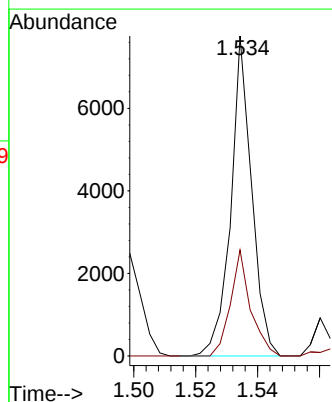
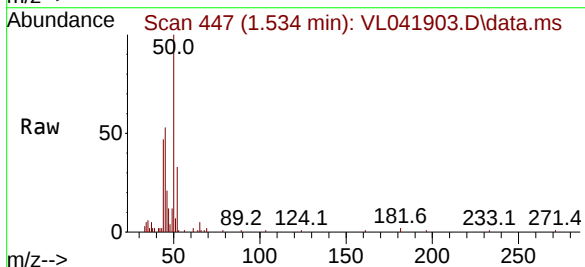
Instrument :
MSVOA_L
ClientSampleId :

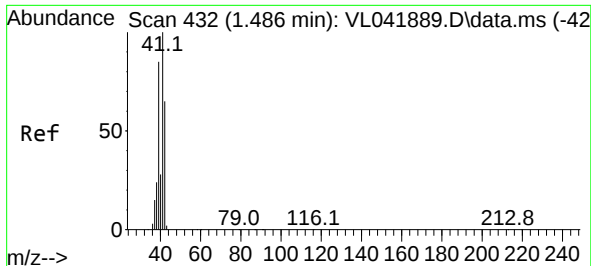
Tgt Ion: 51 Resp: 37252
Ion Ratio Lower Upper
51 100
67 4.1 15.0 22.4#



#4
Chloromethane
Concen: 0.529 ppbv
RT: 1.534 min Scan# 447
Delta R.T. -0.003 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

Tgt Ion: 50 Resp: 3634
Ion Ratio Lower Upper
50 100
52 33.1 24.6 36.8





#9

Propene

Concen: 0.973 ppbv

RT: 1.622 min Scan# 41

Delta R.T. 0.136 min

Lab File: VL041903.D

Acq: 14 Jan 2025 21:47

Instrument :

MSVOA_L

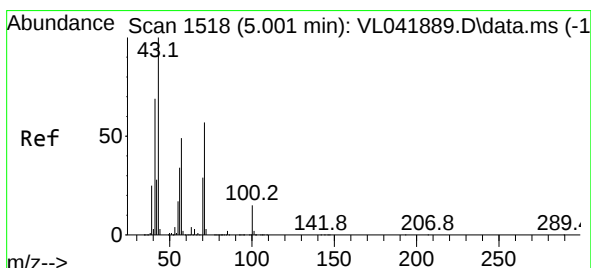
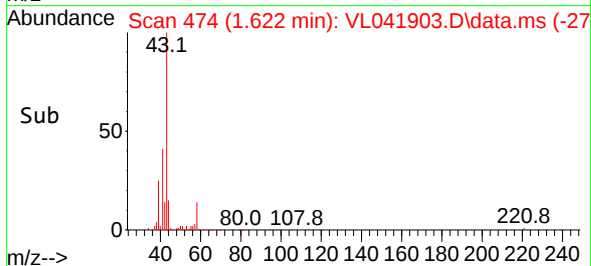
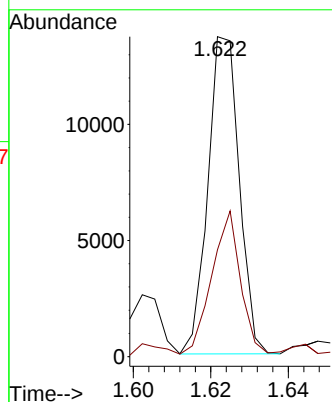
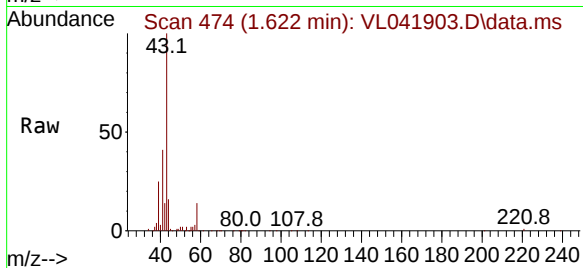
ClientSampleId :

Tgt Ion: 41 Resp: 7672

Ion Ratio Lower Upper

41 100

42 55.1 52.0 78.0



#10

Heptane

Concen: 6.288 ppbv

RT: 4.991 min Scan# 1515

Delta R.T. -0.010 min

Lab File: VL041903.D

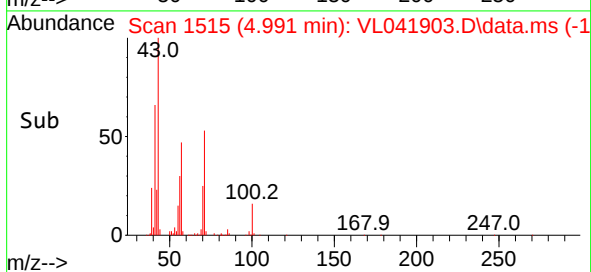
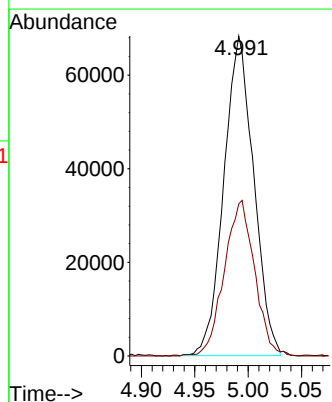
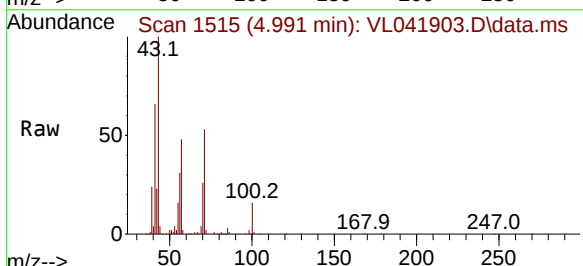
Acq: 14 Jan 2025 21:47

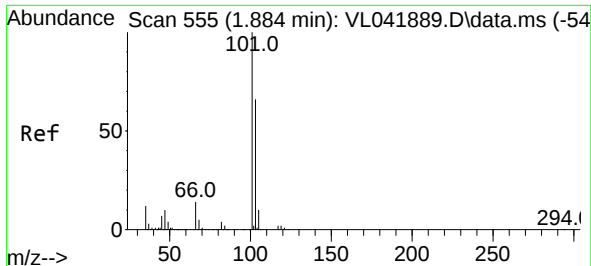
Tgt Ion: 43 Resp: 132549

Ion Ratio Lower Upper

43 100

57 49.6 41.0 61.4

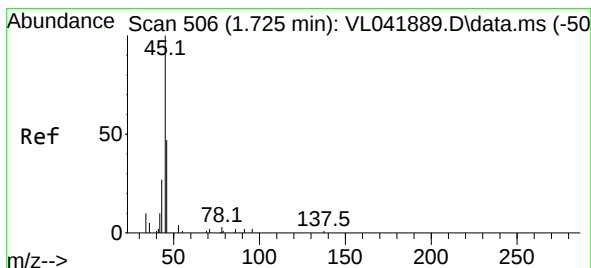
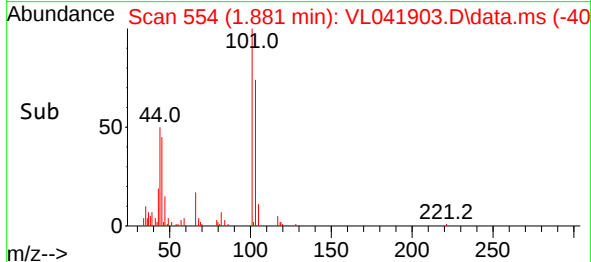
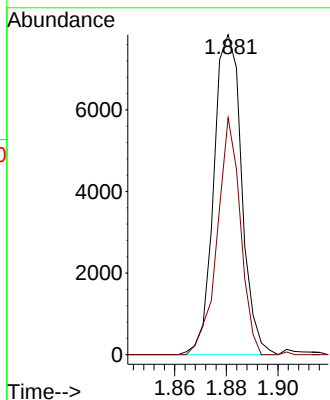
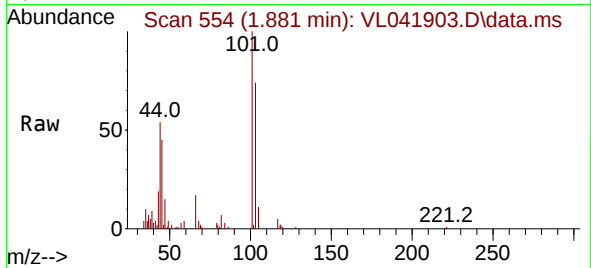




#11
 Trichlorofluoromethane
 Concen: 0.308 ppbv
 RT: 1.881 min Scan# 51
 Delta R.T. -0.003 min
 Lab File: VL041903.D
 Acq: 14 Jan 2025 21:47

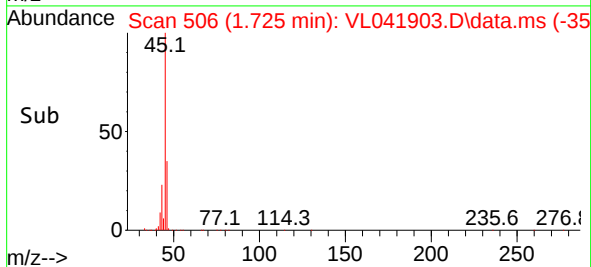
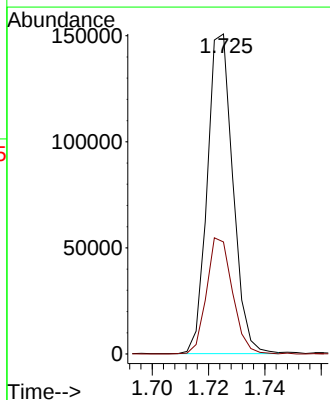
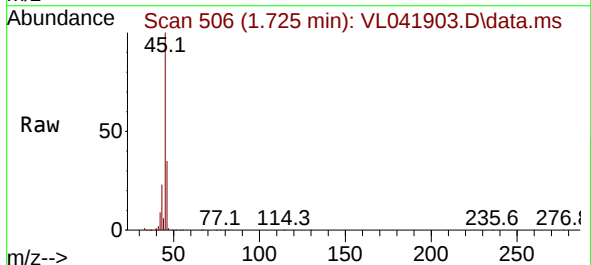
Instrument :
 MSVOA_L
 ClientSampleId :

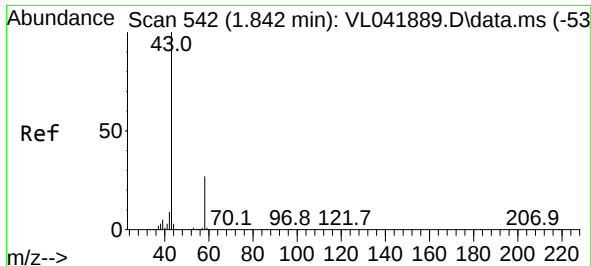
Tgt Ion:101 Resp: 5859
 Ion Ratio Lower Upper
 101 100
 103 74.0 53.1 79.7



#13
 Ethanol
 Concen: 164.886 ppbv
 RT: 1.725 min Scan# 506
 Delta R.T. -0.000 min
 Lab File: VL041903.D
 Acq: 14 Jan 2025 21:47

Tgt Ion: 45 Resp: 95241
 Ion Ratio Lower Upper
 45 100
 46 36.9 18.1 72.5

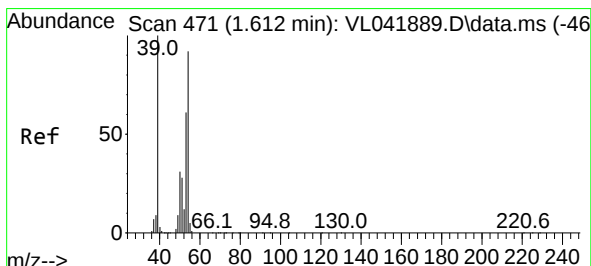
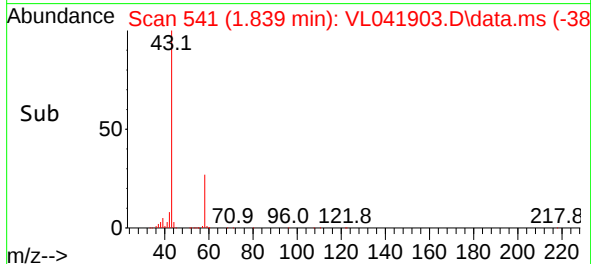
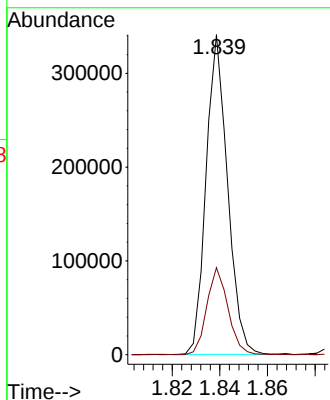
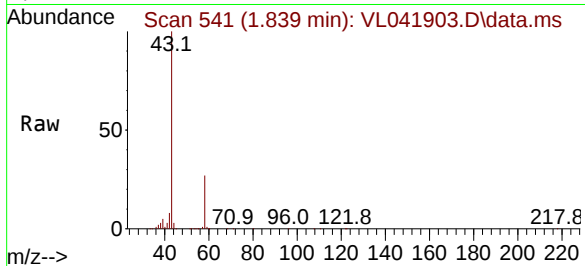




#15
Acetone
Concen: 13.226 ppbv
RT: 1.839 min Scan# 54
Delta R.T. -0.003 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

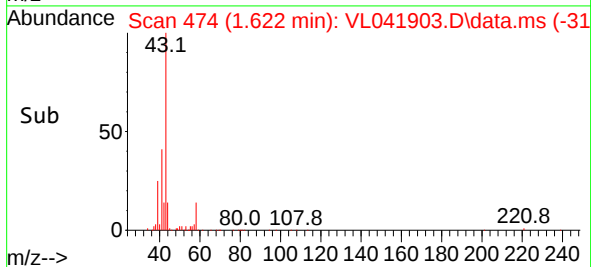
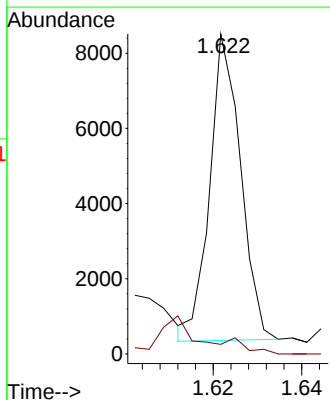
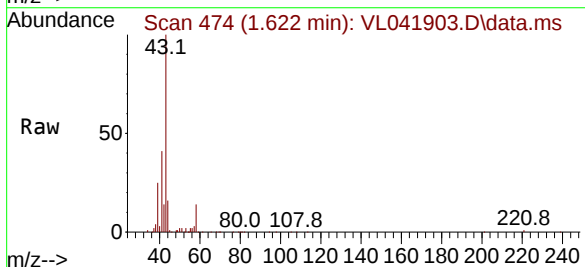
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MSVOA_L
ClientSampleId :

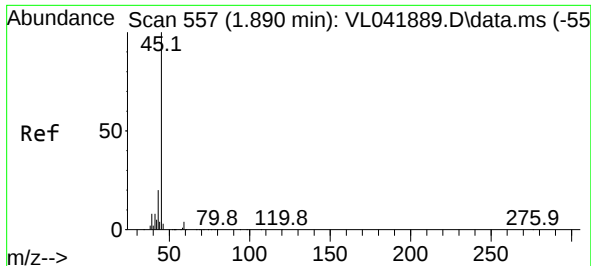
Tgt Ion: 43 Resp: 213102
Ion Ratio Lower Upper
43 100
58 26.9 21.9 32.9



#16
1,3-Butadiene
Concen: 0.544 ppbv
RT: 1.622 min Scan# 474
Delta R.T. 0.010 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

Tgt Ion: 39 Resp: 3935
Ion Ratio Lower Upper
39 100
54 18.3 61.6 92.4#

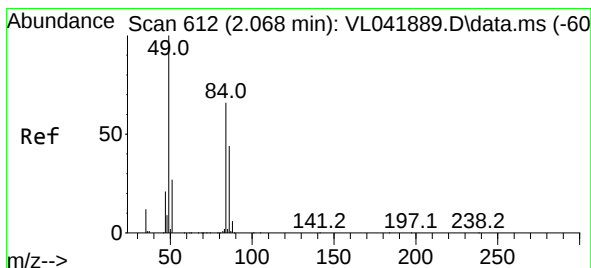
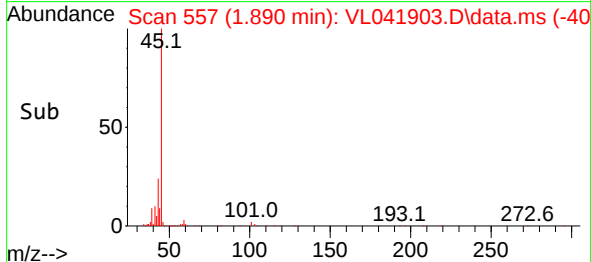
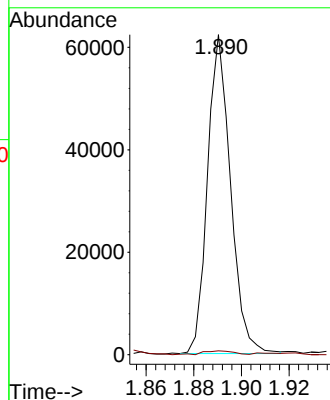
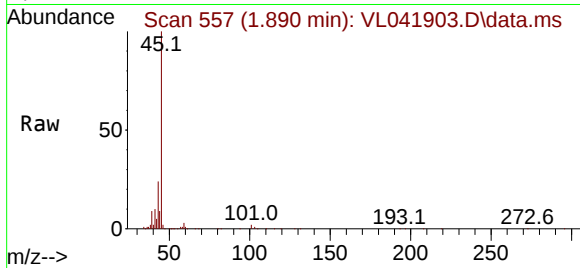




#19
Isopropyl Alcohol
Concen: 4.374 ppbv
RT: 1.890 min Scan# 51
Delta R.T. -0.000 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

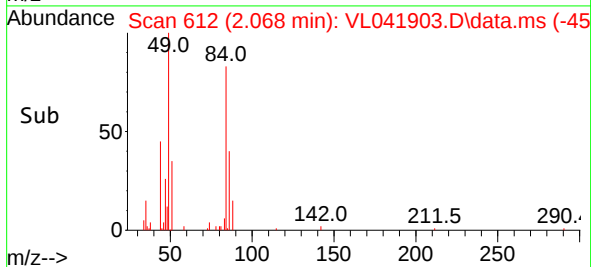
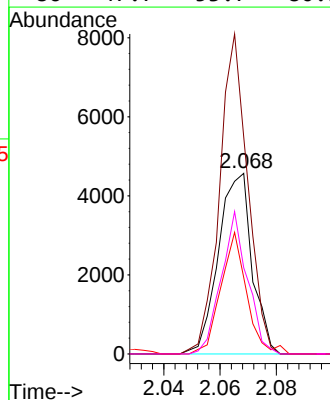
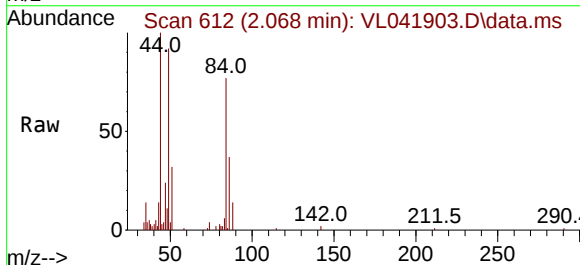
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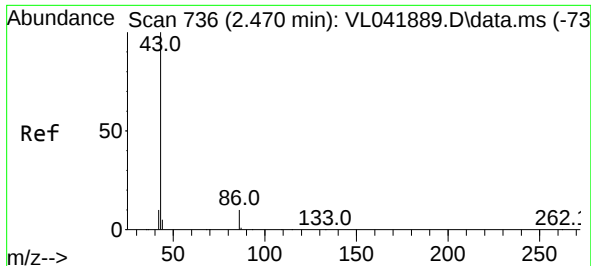
Tgt Ion: 45 Resp: 41786
Ion Ratio Lower Upper
45 100
58 137.1 35.0 52.6#



#20
Methylene Chloride
Concen: 0.596 ppbv
RT: 2.068 min Scan# 612
Delta R.T. -0.000 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

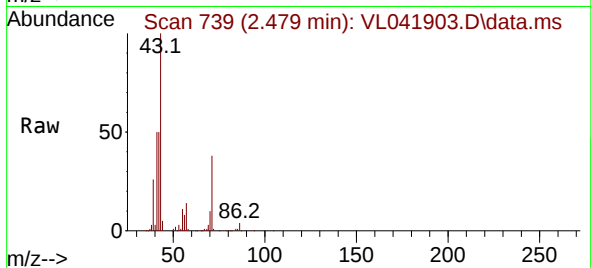
Tgt Ion: 84 Resp: 3794
Ion Ratio Lower Upper
84 100
49 120.2 123.1 184.7#
51 42.3 35.8 53.8
86 47.7 53.7 80.5#



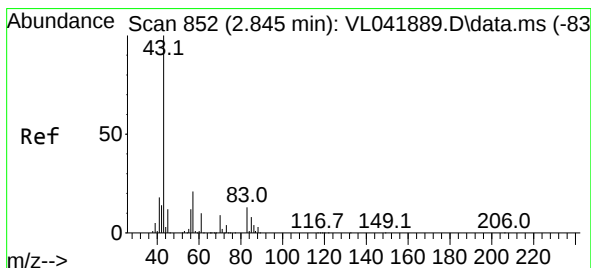
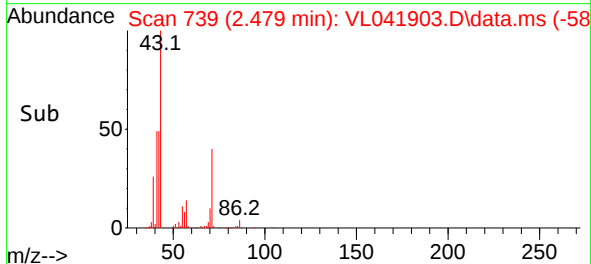
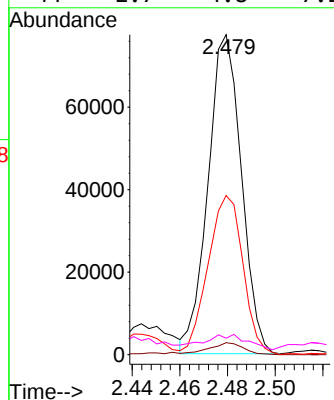


#23
 Vinyl Acetate
 Concen: 9.426 ppbv
 RT: 2.479 min Scan# 71
 Delta R.T. 0.010 min
 Lab File: VL041903.D
 Acq: 14 Jan 2025 21:47

Instrument :
 MSVOA_L
 ClientSampleId :

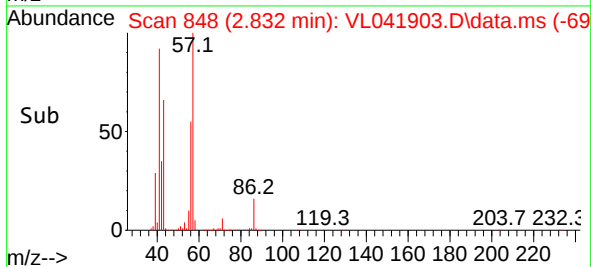
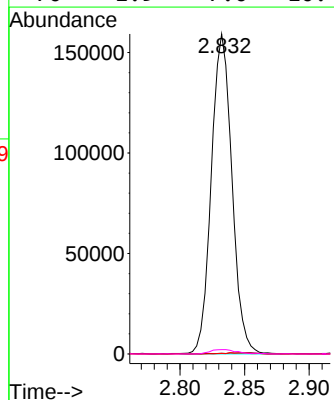
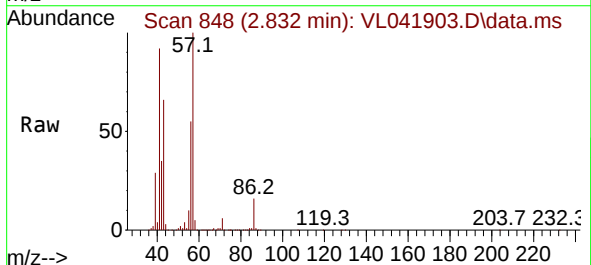


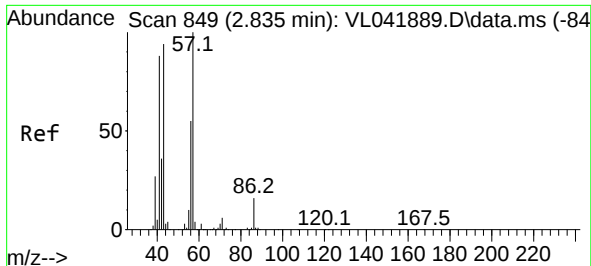
Tgt Ion:	43	Resp:	75289
Ion	Ratio	Lower	Upper
43	100		
86	3.7	6.2	9.4#
42	49.8	8.5	12.7#
44	2.7	4.8	7.2#



#25
 Ethyl Acetate
 Concen: 4.070 ppbv
 RT: 2.832 min Scan# 848
 Delta R.T. -0.013 min
 Lab File: VL041903.D
 Acq: 14 Jan 2025 21:47

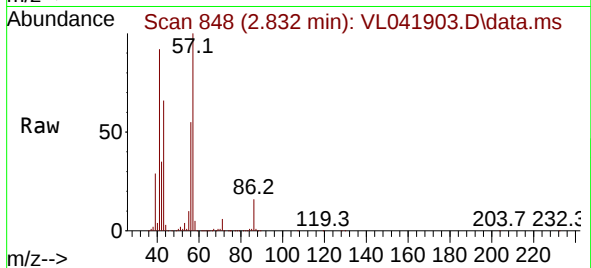
Tgt Ion:	43	Resp:	176855
Ion	Ratio	Lower	Upper
43	100		
45	0.7	8.2	12.2#
61	0.5	7.4	11.0#
70	1.9	7.0	10.4#



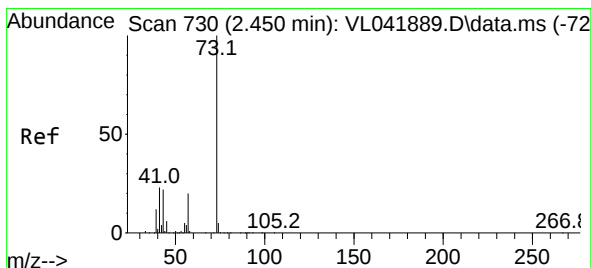
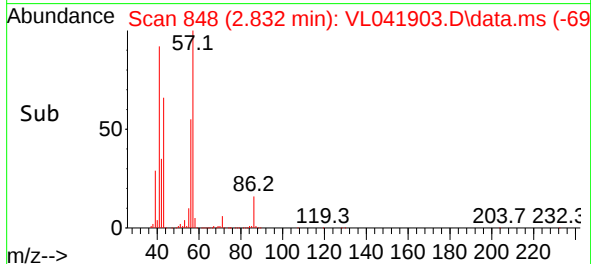
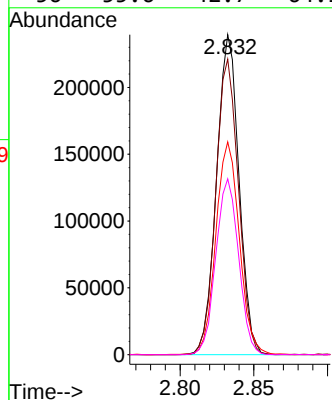


#26
Hexane
Concen: 14.808 ppbv
RT: 2.832 min Scan# 849
Delta R.T. -0.003 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

Instrument :
MSVOA_L
ClientSampleId :

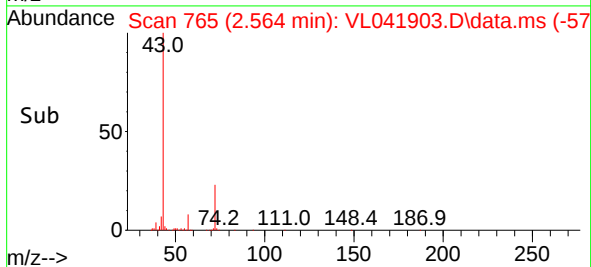
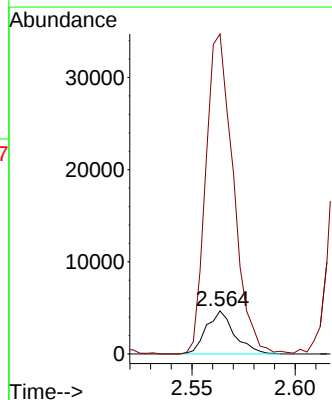
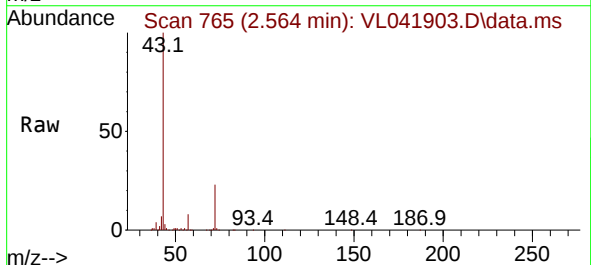


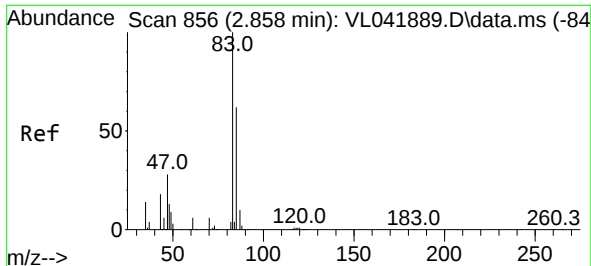
Tgt Ion: 57 Resp: 254475
Ion Ratio Lower Upper
57 100
41 93.3 73.8 110.8
43 69.7 197.3 295.9#
56 55.6 42.7 64.1



#28
Methyl tert-Butyl Ether
Concen: 0.336 ppbv
RT: 2.564 min Scan# 765
Delta R.T. 0.113 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

Tgt Ion: 73 Resp: 4418
Ion Ratio Lower Upper
73 100
57 735.7 18.1 27.1#





#29

Chloroform

Concen: 0.793 ppbv

RT: 2.855 min Scan# 81

Delta R.T. -0.003 min

Lab File: VL041903.D

Acq: 14 Jan 2025 21:47

Instrument :

MSVOA_L

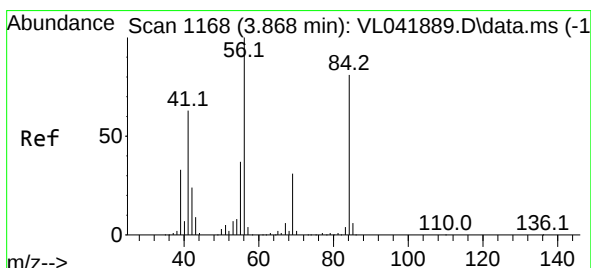
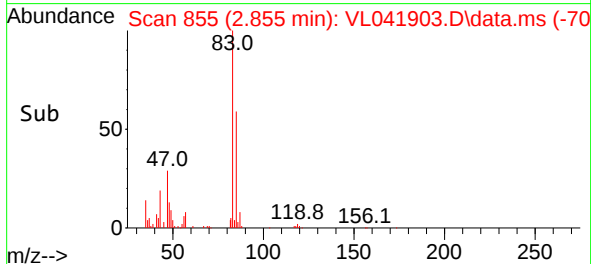
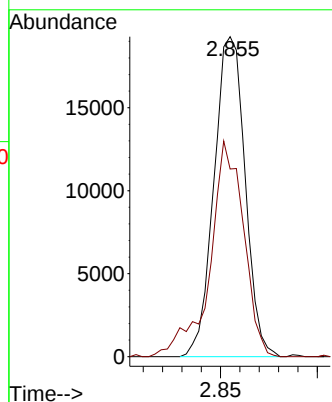
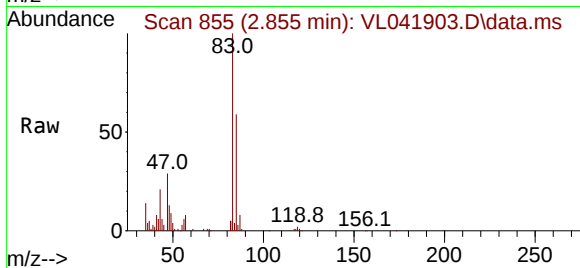
ClientSampleId :

Tgt Ion: 83 Resp: 21538

Ion Ratio Lower Upper

83 100

85 58.7 50.1 75.1



#30

Cyclohexane

Concen: 2.135 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. -0.003 min

Lab File: VL041903.D

Acq: 14 Jan 2025 21:47

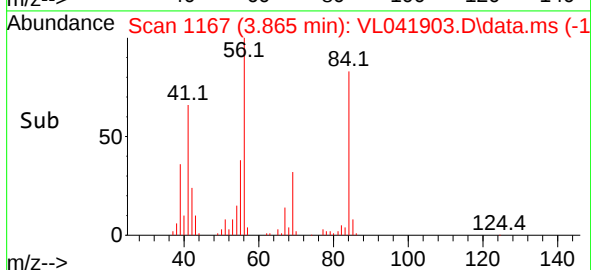
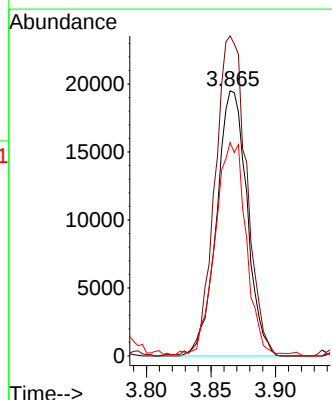
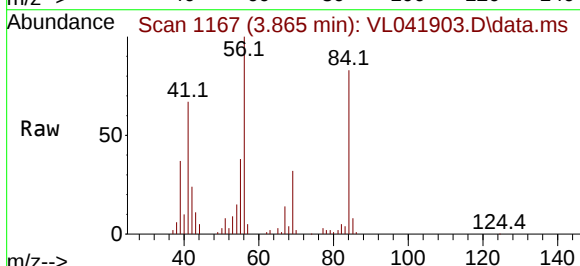
Tgt Ion: 84 Resp: 31823

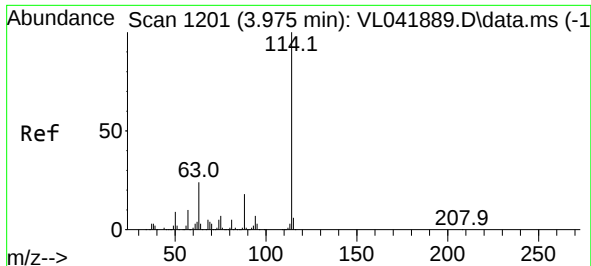
Ion Ratio Lower Upper

84 100

56 126.0 99.3 148.9

41 83.4 64.3 96.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. -0.006 min

Lab File: VL041903.D

Acq: 14 Jan 2025 21:47

Instrument :

MSVOA_L

ClientSampleId :

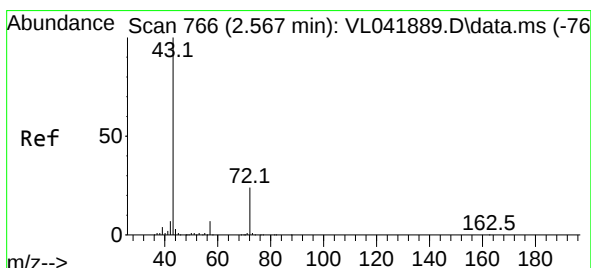
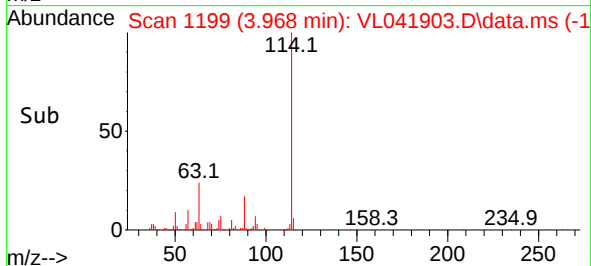
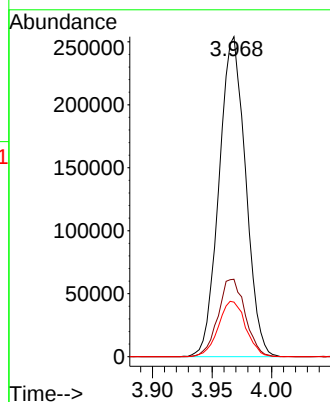
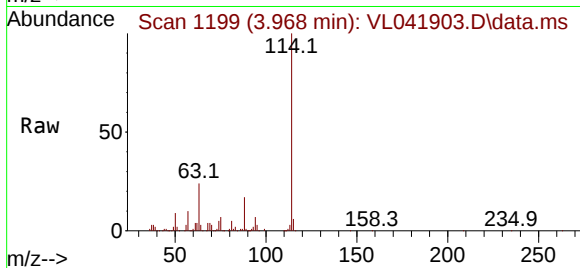
Tgt Ion:114 Resp: 393472

Ion Ratio Lower Upper

114 100

63 24.7 19.8 29.6

88 17.8 14.4 21.6



#34

2-Butanone

Concen: 16.575 ppbv

RT: 2.560 min Scan# 764

Delta R.T. -0.006 min

Lab File: VL041903.D

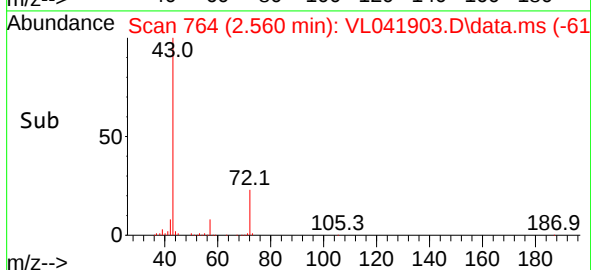
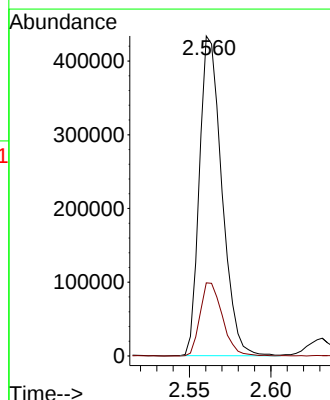
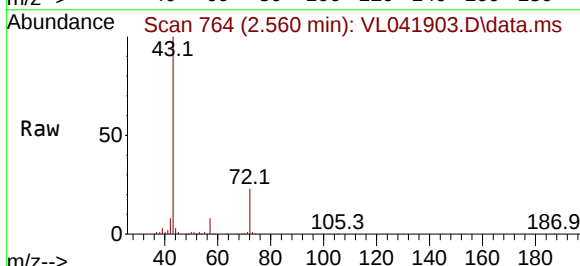
Acq: 14 Jan 2025 21:47

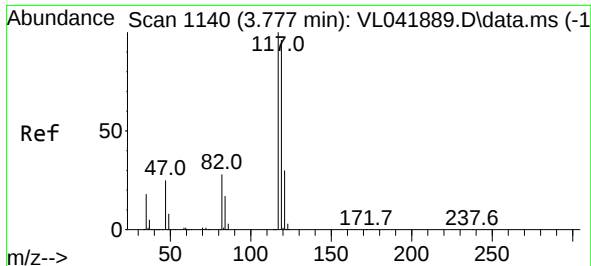
Tgt Ion: 43 Resp: 414763

Ion Ratio Lower Upper

43 100

72 23.0 18.6 28.0

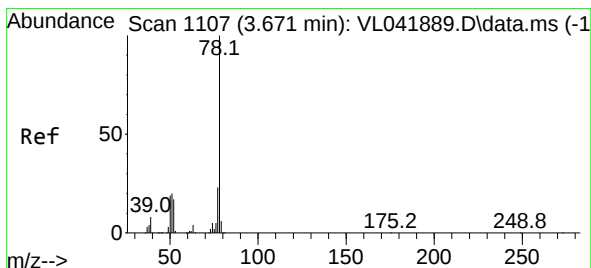
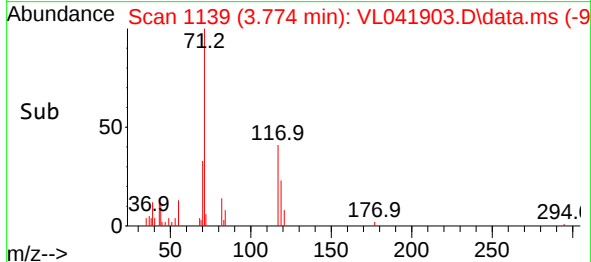
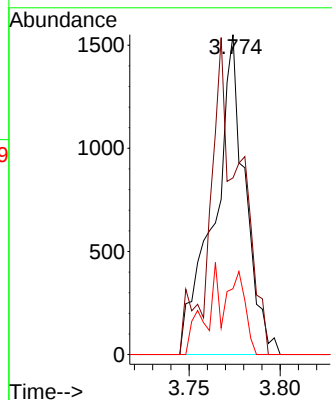
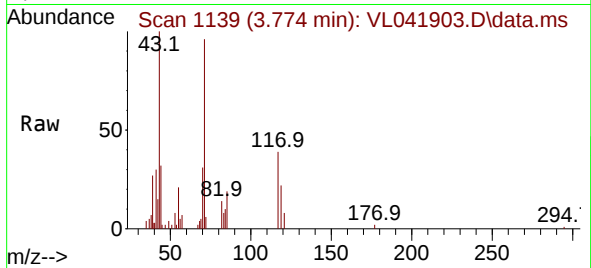




#35
Carbon Tetrachloride
Concen: 0.074 ppbv
RT: 3.774 min Scan# 1140
Delta R.T. -0.003 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

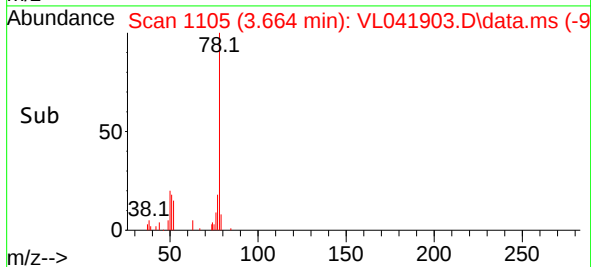
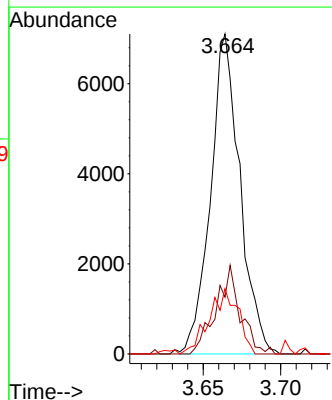
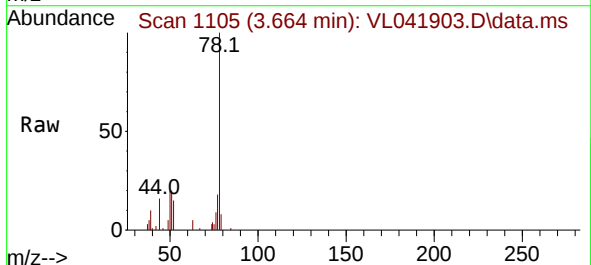
Instrument :
MSVOA_L
ClientSampleId :

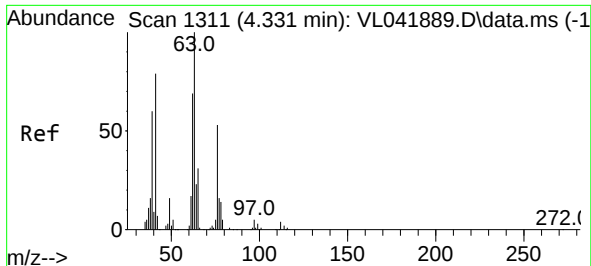
Tgt Ion:117 Resp: 1820
Ion Ratio Lower Upper
117 100
119 55.3 76.9 115.3#
121 20.6 23.8 35.6#



#36
Benzene
Concen: 0.259 ppbv
RT: 3.664 min Scan# 1105
Delta R.T. -0.006 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

Tgt Ion: 78 Resp: 9360
Ion Ratio Lower Upper
78 100
77 17.8 18.1 27.1#
50 20.4 15.2 22.8





#39

1,2-Dichloropropane

Concen: 7.681 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. -0.363 min

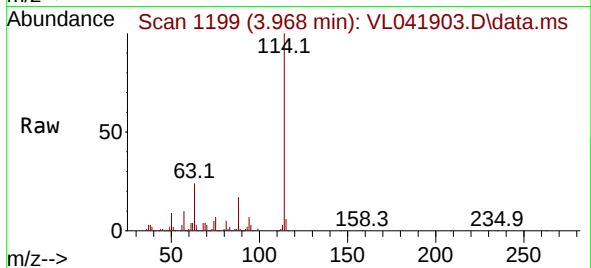
Lab File: VL041903.D

Acq: 14 Jan 2025 21:47

Instrument :

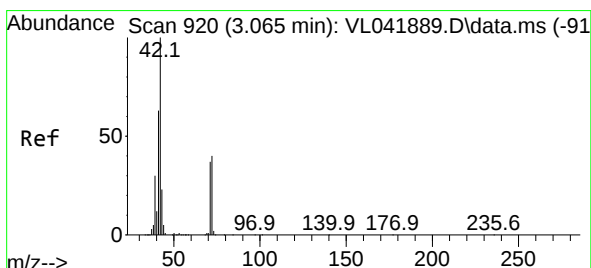
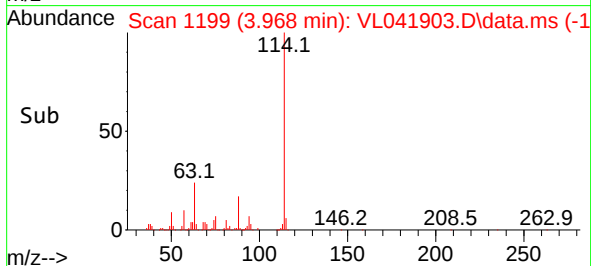
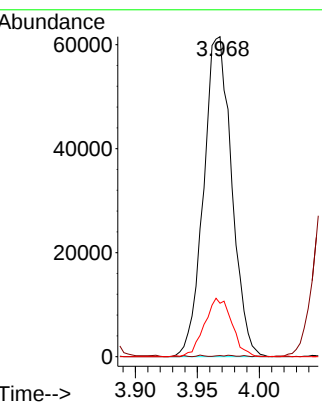
MSVOA_L

ClientSampleId :



Tgt Ion: 63 Resp: 97239

Ion	Ratio	Lower	Upper
63	100		
41	0.2	63.7	95.5#
62	16.7	55.4	83.2#



#41

Tetrahydrofuran

Concen: 1.243 ppbv

RT: 3.237 min Scan# 973

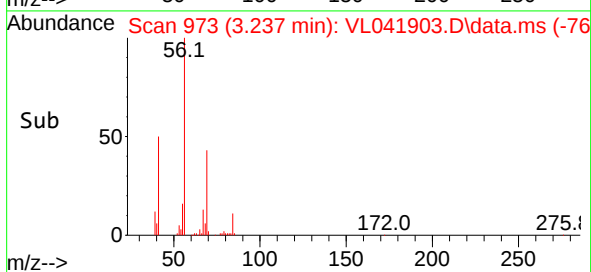
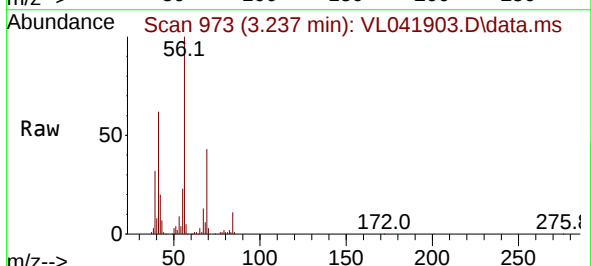
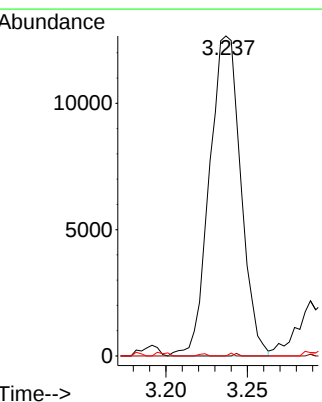
Delta R.T. 0.172 min

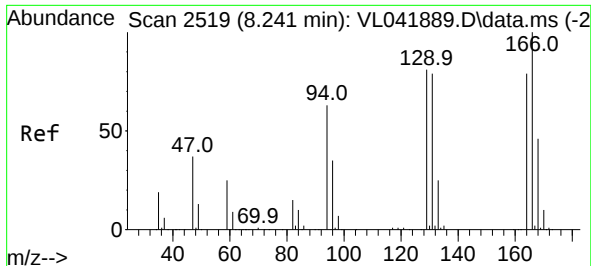
Lab File: VL041903.D

Acq: 14 Jan 2025 21:47

Tgt Ion: 42 Resp: 16905

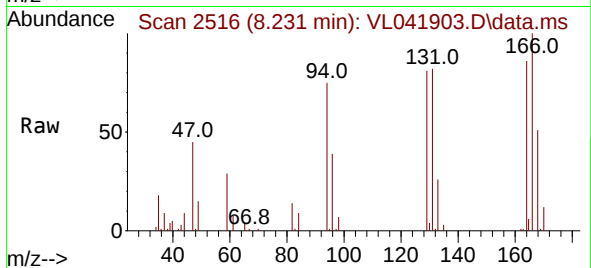
Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.3	48.5#
71	0.0	29.9	44.9#



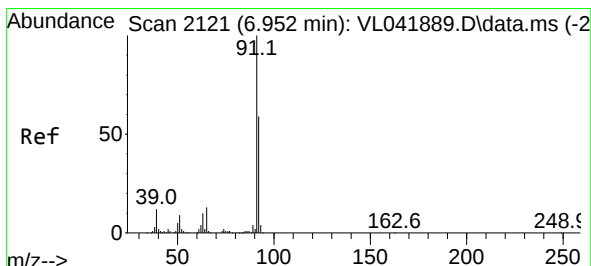
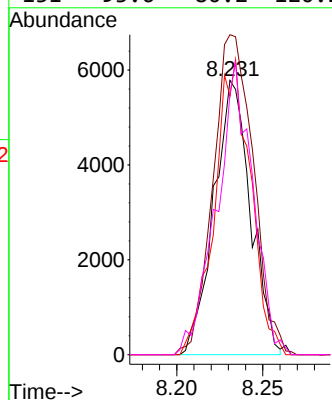
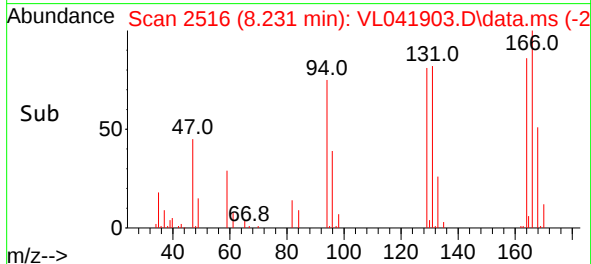


#52
Tetrachloroethene
Concen: 0.687 ppbv
RT: 8.231 min Scan# 2118
Delta R.T. -0.010 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

Instrument :
MSVOA_L
ClientSampleId :

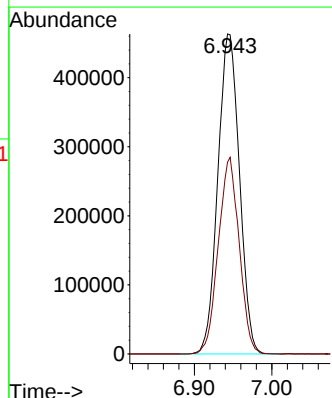
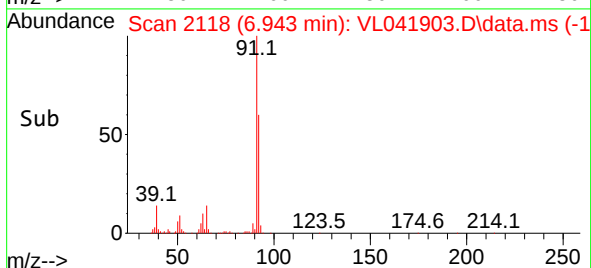
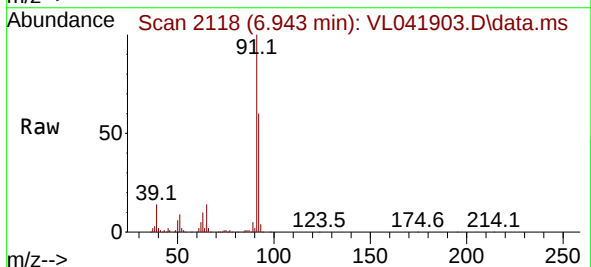


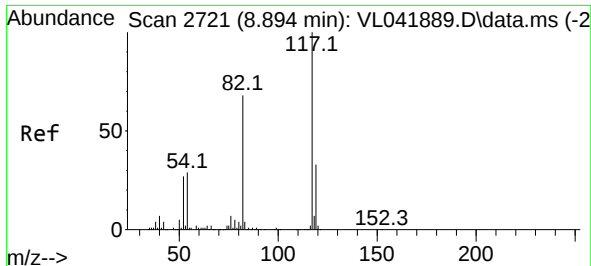
Tgt Ion:164 Resp: 8591
Ion Ratio Lower Upper
164 100
166 114.4 100.8 151.2
129 94.3 82.0 123.0
131 93.6 80.2 120.2



#53
Toluene
Concen: 22.844 ppbv
RT: 6.943 min Scan# 2118
Delta R.T. -0.010 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

Tgt Ion: 91 Resp: 897997
Ion Ratio Lower Upper
91 100
92 59.4 47.4 71.0

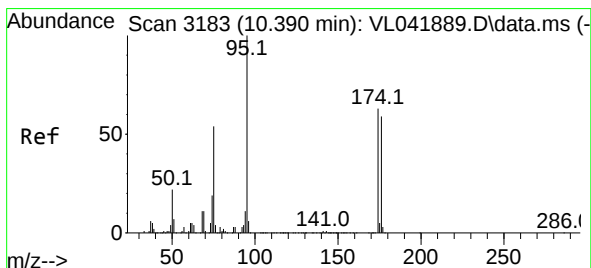
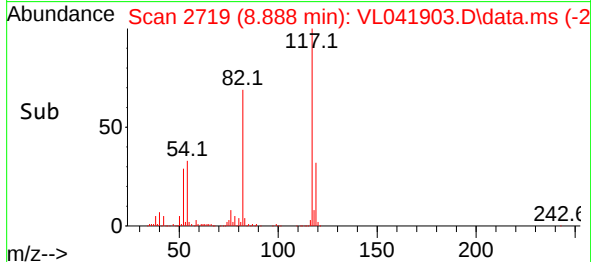
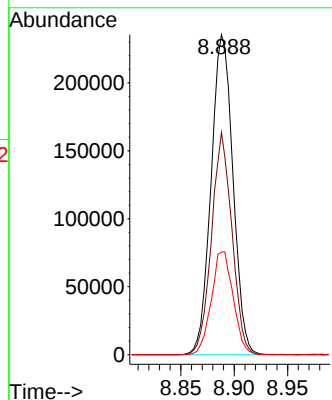
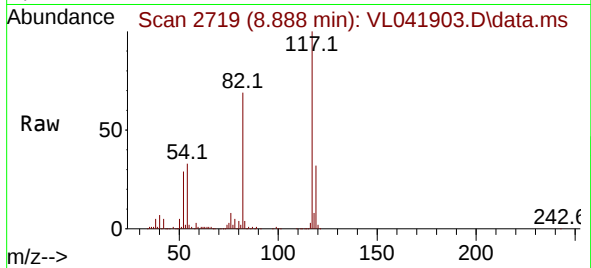




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.888 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

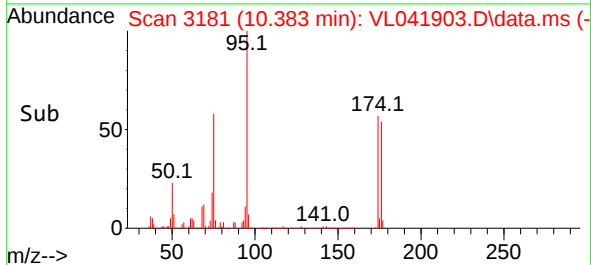
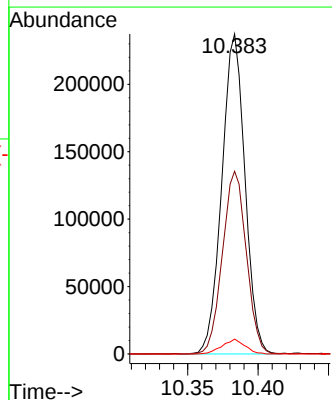
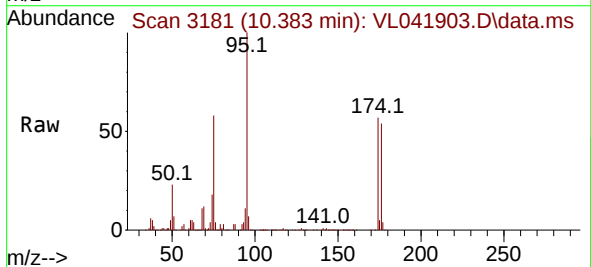
Instrument :
MSVOA_L
ClientSampleId :

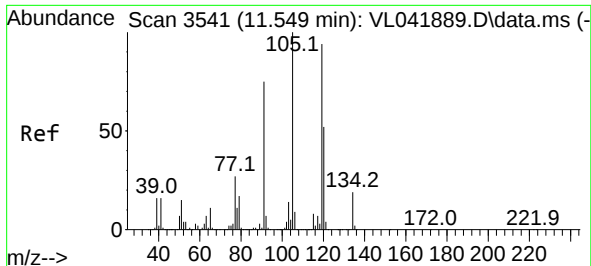
Tgt Ion:117 Resp: 335047
Ion Ratio Lower Upper
117 100
82 64.8 54.2 81.4
119 32.2 25.0 37.6



#68
1-Bromo-4-Fluorobenzene
Concen: 10.301 ppbv
RT: 10.383 min Scan# 3181
Delta R.T. -0.006 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

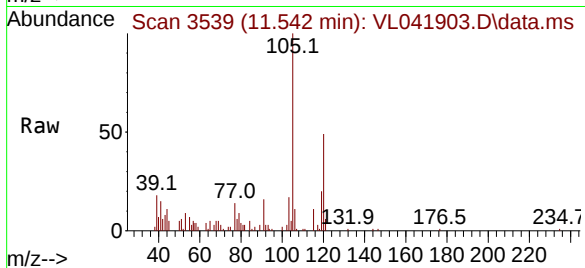
Tgt Ion: 95 Resp: 271840
Ion Ratio Lower Upper
95 100
174 59.0 49.0 73.4
175 4.6 3.8 5.8



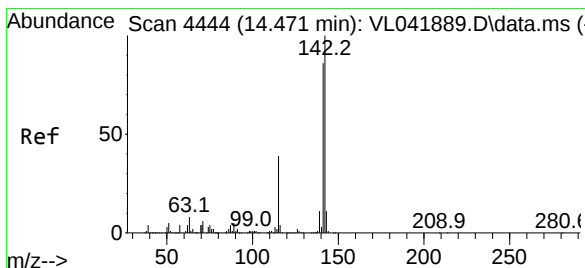
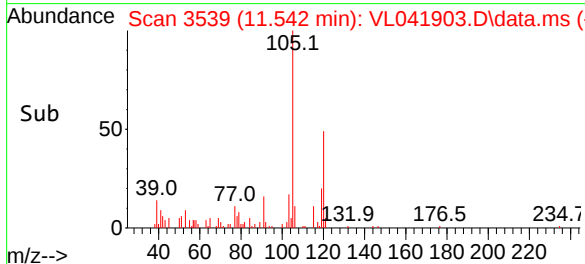
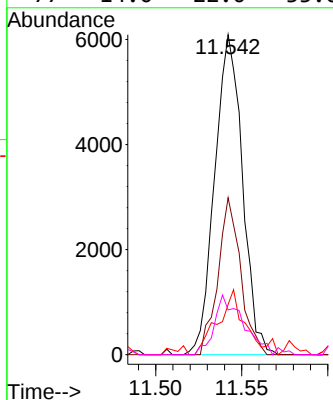


#74
1,2,4-Trimethylbenzene
Concen: 0.143 ppbv
RT: 11.542 min Scan# 3539
Delta R.T. -0.006 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

Instrument :
MSVOA_L
ClientSampleId :



Tgt Ion:	105	Resp:	6823
Ion	Ratio	Lower	Upper
105	100		
120	49.1	41.4	62.2
91	15.7	60.2	90.2#
77	14.0	22.0	33.0#



#80
Naphthalene,2-methyl-
Concen: 0.005 ppbv
RT: 14.468 min Scan# 4443
Delta R.T. -0.003 min
Lab File: VL041903.D
Acq: 14 Jan 2025 21:47

Tgt Ion:	142	Resp:	105
Ion	Ratio	Lower	Upper
142	100		
141	157.1	68.1	102.1#
115	42.9	31.7	47.5

