

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021623\
 Data File : VL040186.D
 Acq On : 16 Feb 2023 20:21
 Operator : SY/MD
 Sample : 01550-01DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-03DL

Quant Time: Feb 17 03:32:19 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL021523AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Wed Feb 15 17:01:01 2023
 Response via : Initial Calibration

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

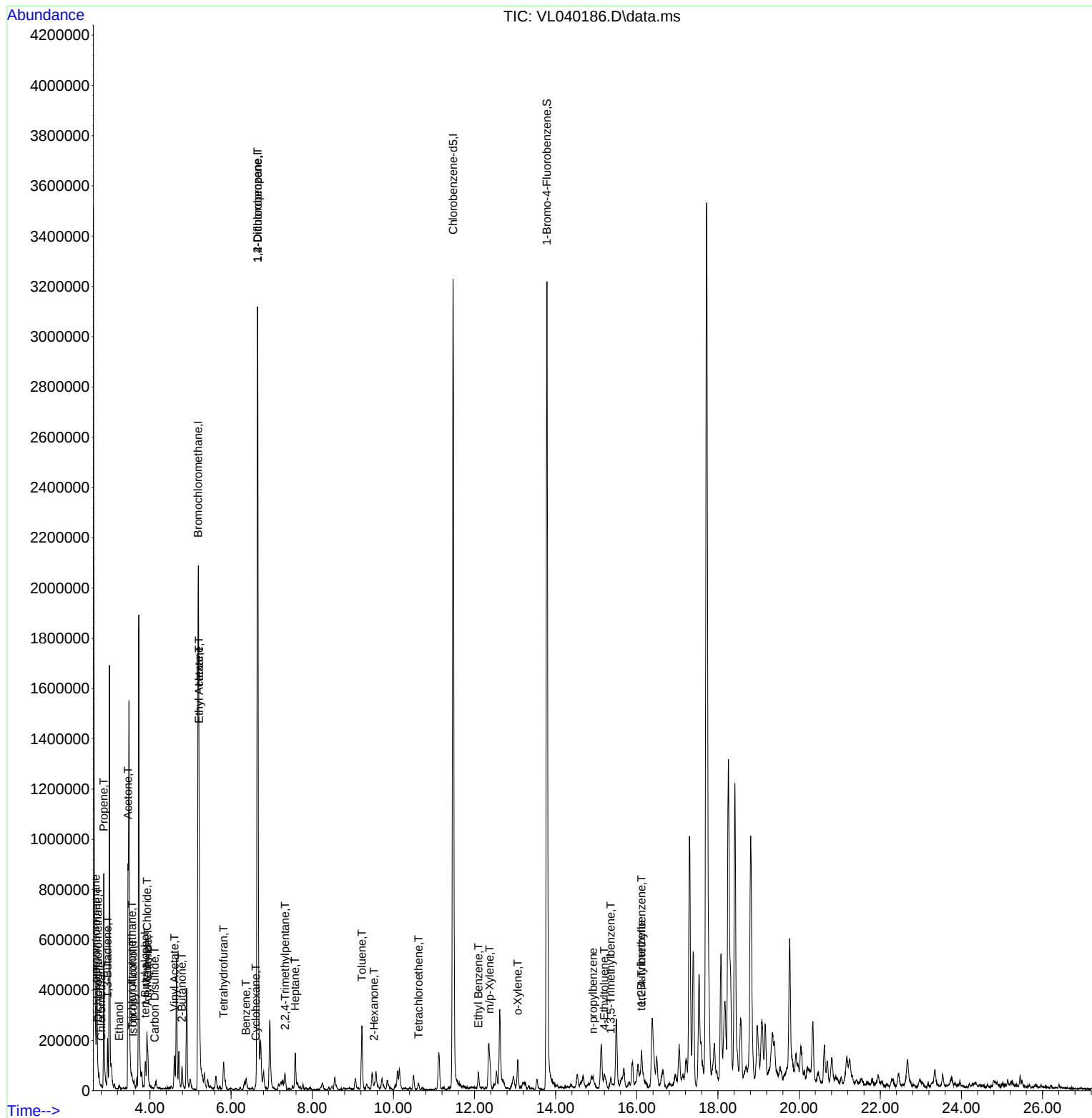
Internal Standards						
1) Bromochloromethane	5.188	49	948252	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.651	114	2492519	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.471	117	2183379	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1646264	9.169	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.700%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.719	85	16944	0.096	ppbv #	87
3) Chlorodifluoromethane	2.664	51	7226	0.064	ppbv	97
4) Chloromethane	2.803	50	2623	0.037	ppbv	92
9) Propene	2.861	41	200877	4.350	ppbv	94
10) Heptane	7.581	43	62938	0.573	ppbv	94
11) Trichlorofluoromethane	3.555	101	15662	0.099	ppbv #	81
13) Ethanol	3.240	45	10551	2.482	ppbv #	62
15) Acetone	3.462	43	776331	6.800	ppbv #	80
16) 1,3-Butadiene	2.954	39	45215	0.867	ppbv #	28
17) tert-Butyl alcohol	3.883	59	81113	0.779	ppbv	95
19) Isopropyl Alcohol	3.584	45	12678	0.234	ppbv #	90
20) Methylene Chloride	3.928	84	69863	1.176	ppbv	96
21) Allyl Chloride	3.947	41	15624	0.223	ppbv #	34
23) Vinyl Acetate	4.603	43	48878	1.411	ppbv #	1
25) Ethyl Acetate	5.211	43	240439	1.133	ppbv #	76
26) Hexane	5.208	57	350671	3.849	ppbv #	37
27) Carbon Disulfide	4.118	76	9847	0.085	ppbv #	58
30) Cyclohexane	6.610	84	1566	0.022	ppbv #	1
34) 2-Butanone	4.790	43	94972	0.772	ppbv #	87
36) Benzene	6.368	78	28430	0.147	ppbv	96
39) 1,2-Dichloropropane	6.651	63	602466	7.984	ppbv #	26
41) Tetrahydrofuran	5.815	42	14331	0.201	ppbv #	35
44) 2,2,4-Trimethylpentane	7.333	57	52672	0.163	ppbv #	84
51) 2-Hexanone	9.523	43	3482	0.024	ppbv #	29
52) Tetrachloroethene	10.622	164	1301	0.021	ppbv #	63
53) Toluene	9.224	91	170549	0.821	ppbv	99
58) Ethyl Benzene	12.095	91	55313	0.209	ppbv	90
59) m/p-Xylene	12.375	91	54388	0.231	ppbv #	33
60) o-Xylene	13.063	91	53127	0.235	ppbv #	33
64) n-propylbenzene	14.924	120	4666	0.058	ppbv #	28
65) tert-Butylbenzene	16.111	119	6119	0.022	ppbv #	1
72) 4-Ethyltoluene	15.201	105	32685	0.131	ppbv #	93
73) 1,3,5-Trimethylbenzene	15.358	105	17288	0.074	ppbv #	71
74) 1,2,4-Trimethylbenzene	16.117	105	101126	0.396	ppbv #	64

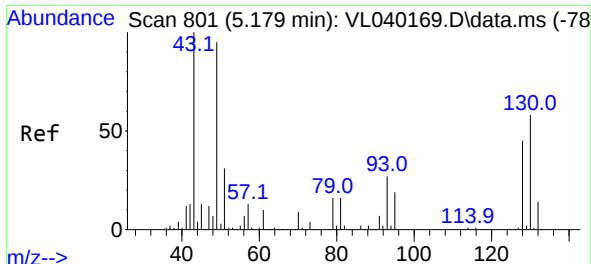
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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SVP-03DL

Quant Time: Feb 17 03:32:19 2023
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Wed Feb 15 17:01:01 2023
Response via : Initial Calibration

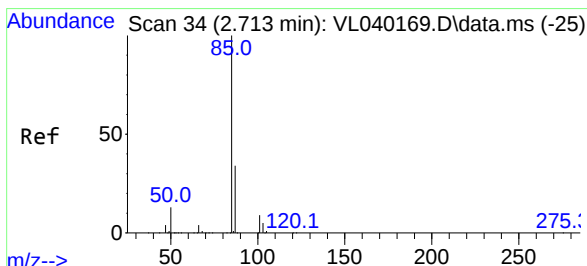
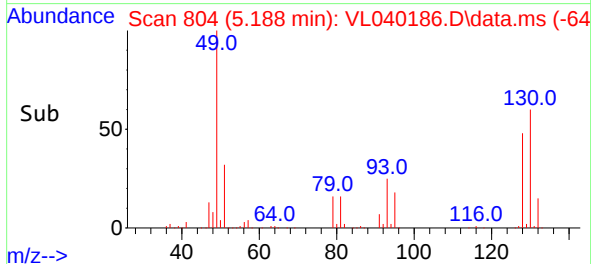
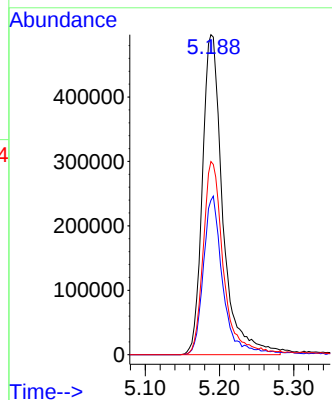
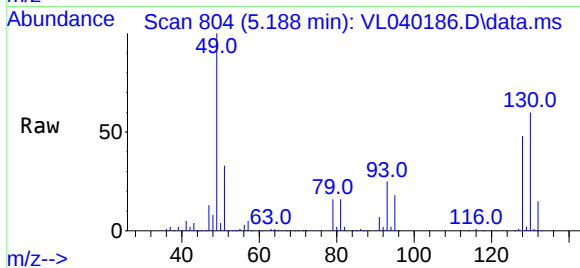




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.188 min Scan# 80
Delta R.T. 0.009 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

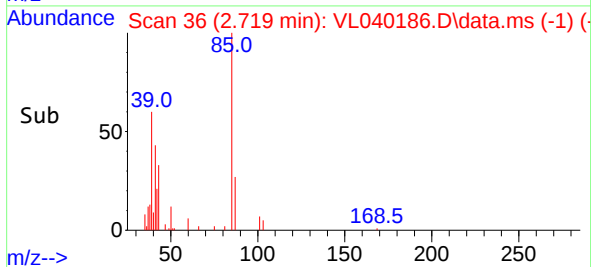
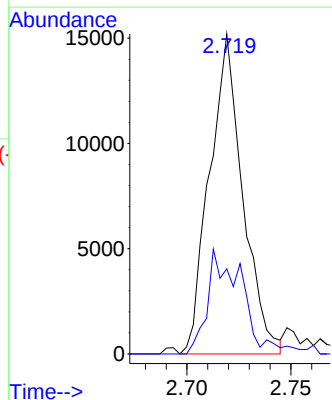
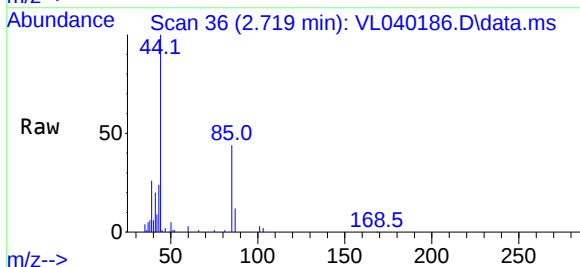
Instrument :
MSVOA_1
ClientSampleId :
SVP-03DL

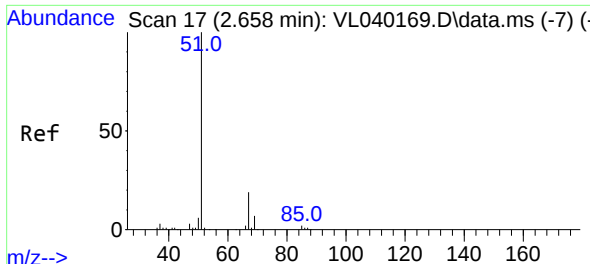
Tgt Ion: 49 Resp: 948252
Ion Ratio Lower Upper
49 100
128 48.1 24.1 72.3
130 60.7 30.9 92.8



#2
Dichlorodifluoromethane
Concen: 0.096 ppbv
RT: 2.719 min Scan# 36
Delta R.T. 0.006 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

Tgt Ion: 85 Resp: 16944
Ion Ratio Lower Upper
85 100
87 26.6 27.0 40.6#

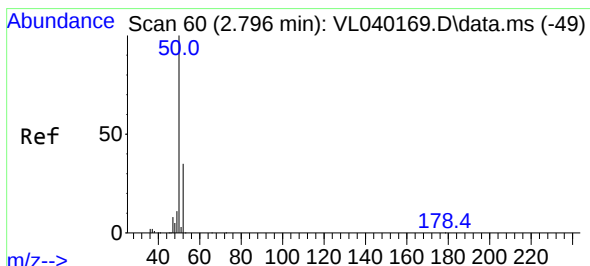
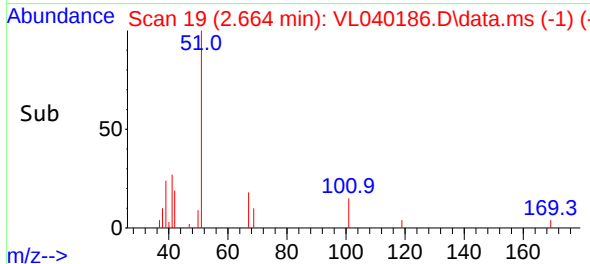
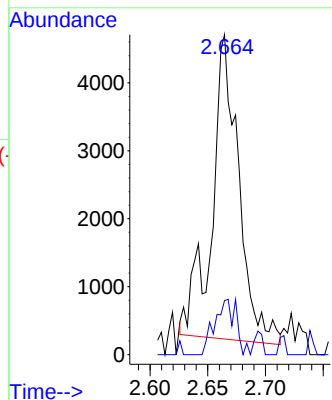
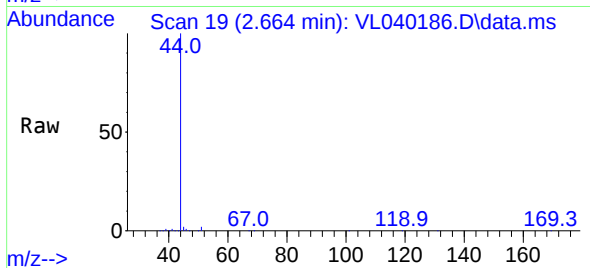




#3
Chlorodifluoromethane
Concen: 0.064 ppbv
RT: 2.664 min Scan# 19
Delta R.T. 0.006 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

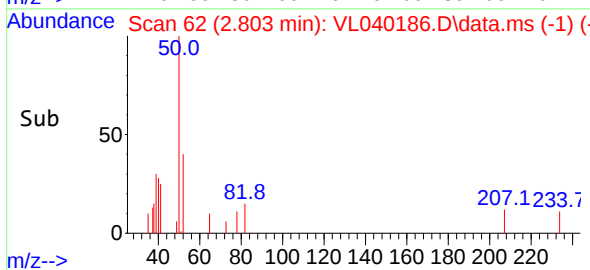
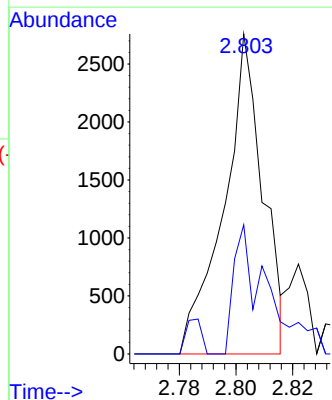
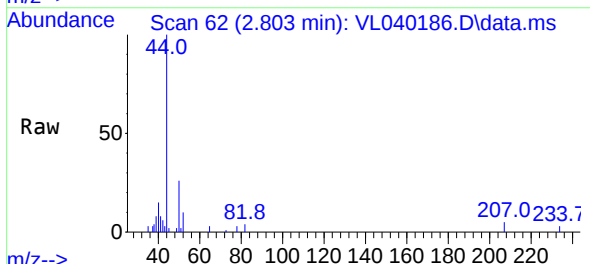
Instrument :
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ClientSampleId :
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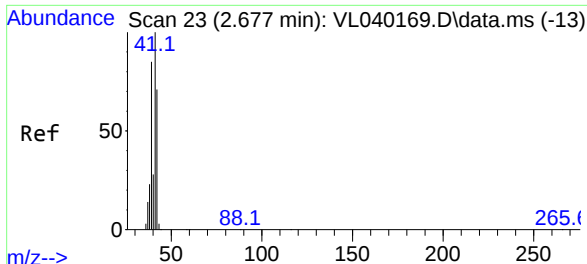
Tgt Ion: 51 Resp: 7226
Ion Ratio Lower Upper
51 100
67 18.2 15.4 23.2



#4
Chloromethane
Concen: 0.037 ppbv
RT: 2.803 min Scan# 62
Delta R.T. 0.006 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

Tgt Ion: 50 Resp: 2623
Ion Ratio Lower Upper
50 100
52 40.3 28.3 42.5

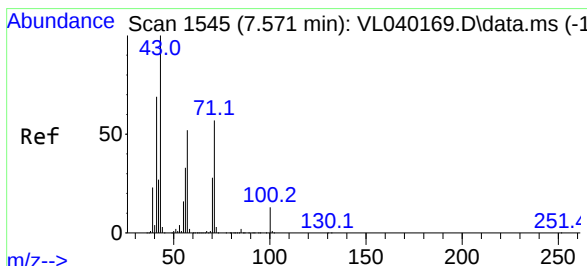
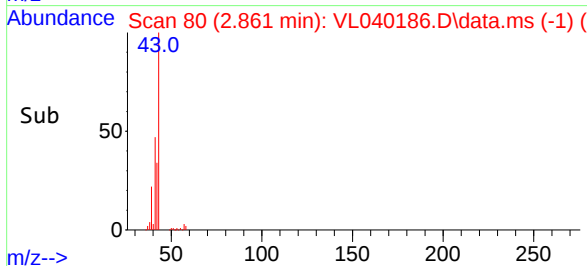
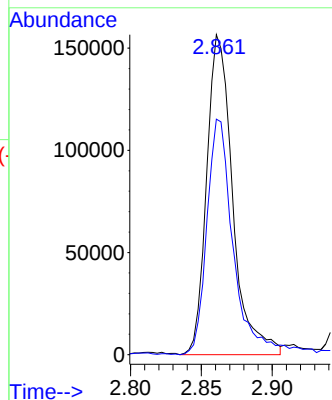
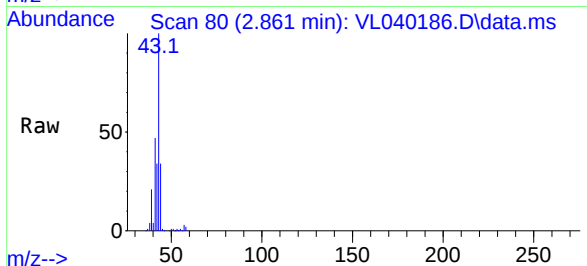




#9
Propene
Concen: 4.350 ppbv
RT: 2.861 min Scan# 80
Delta R.T. 0.183 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

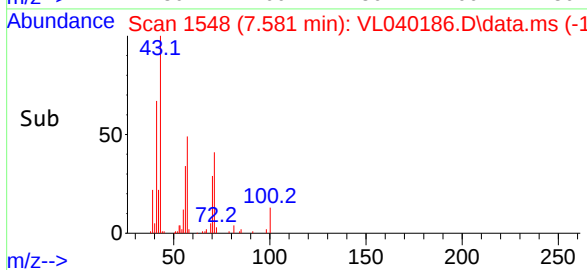
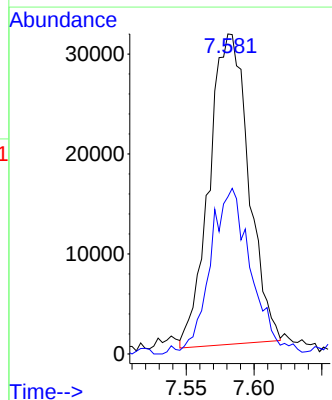
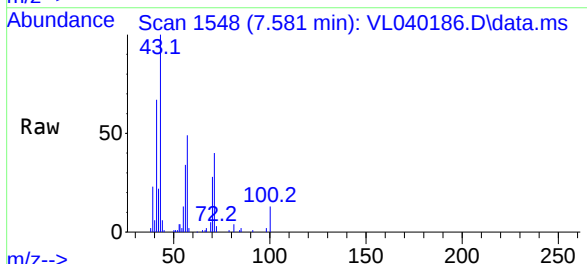
Instrument :
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ClientSampleId :
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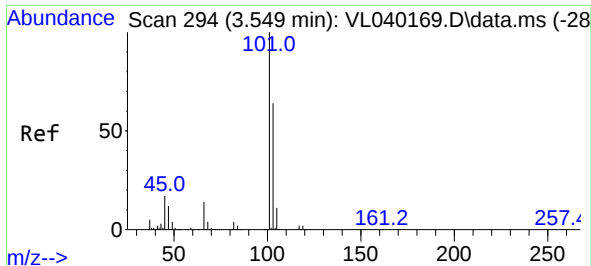
Tgt Ion: 41 Resp: 200877
Ion Ratio Lower Upper
41 100
42 75.7 56.9 85.3



#10
Heptane
Concen: 0.573 ppbv
RT: 7.581 min Scan# 1548
Delta R.T. 0.010 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

Tgt Ion: 43 Resp: 62938
Ion Ratio Lower Upper
43 100
57 56.2 41.4 62.2

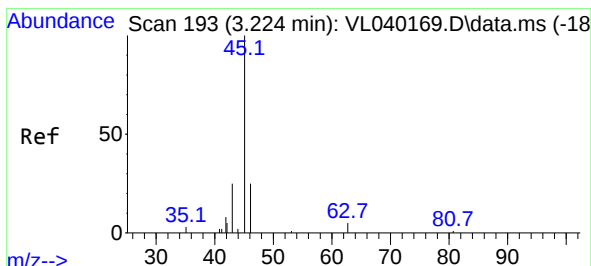
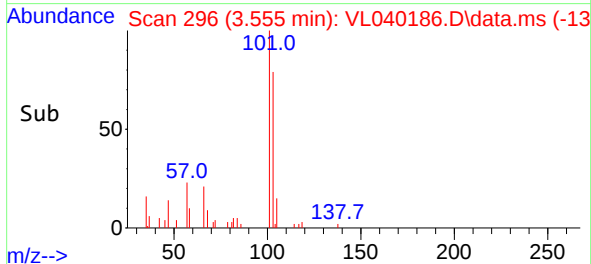
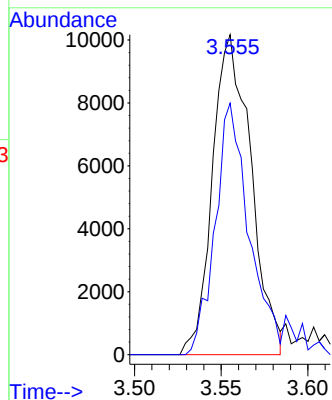
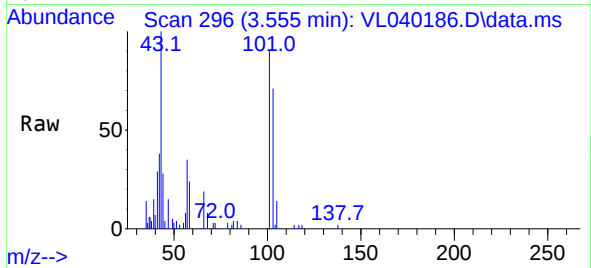




#11
Trichlorofluoromethane
Concen: 0.099 ppbv
RT: 3.555 min Scan# 294
Delta R.T. 0.006 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

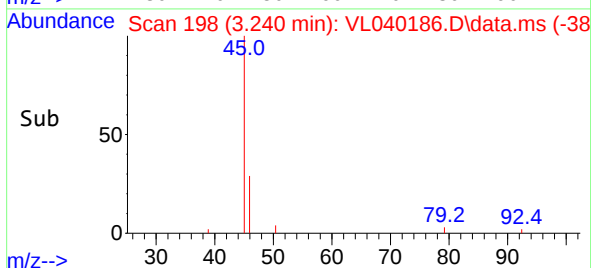
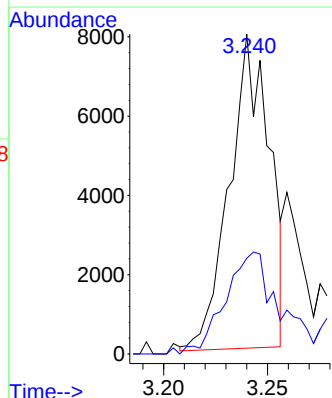
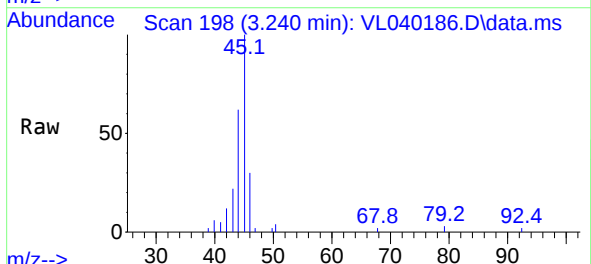
Instrument :
MSVOA_L
ClientSampleId :
SVP-03DL

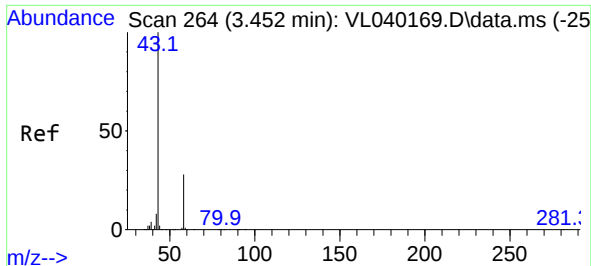
Tgt Ion:101 Resp: 15662
Ion Ratio Lower Upper
101 100
103 78.6 51.0 76.6#



#13
Ethanol
Concen: 2.482 ppbv
RT: 3.240 min Scan# 198
Delta R.T. 0.016 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

Tgt Ion: 45 Resp: 10551
Ion Ratio Lower Upper
45 100
46 54.5 13.3 53.1#

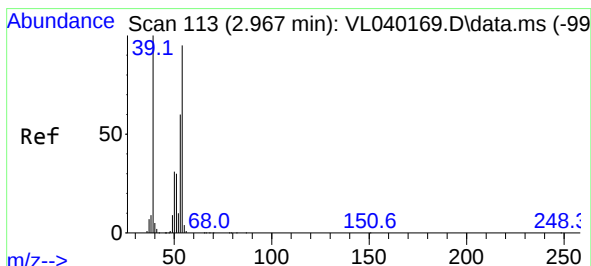
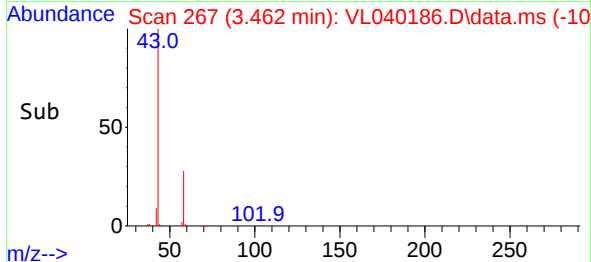
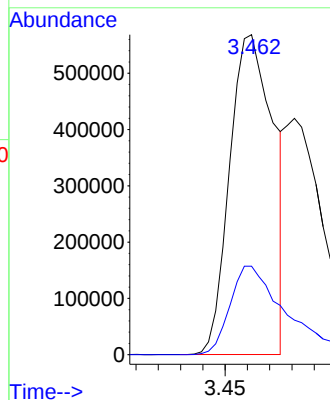
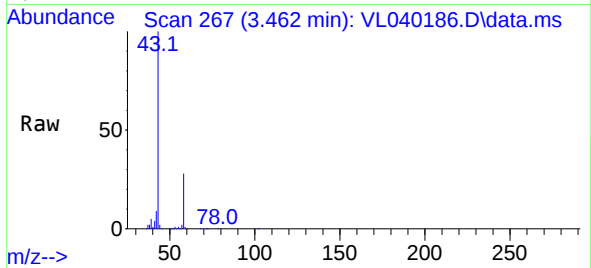




#15
Acetone
Concen: 6.800 ppbv
RT: 3.462 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

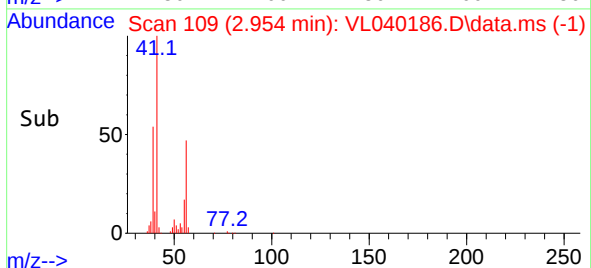
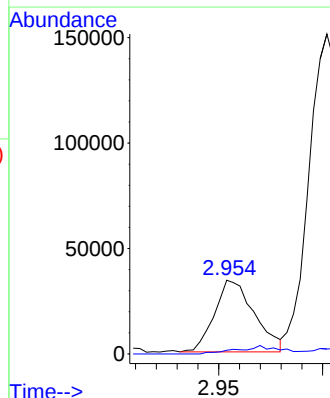
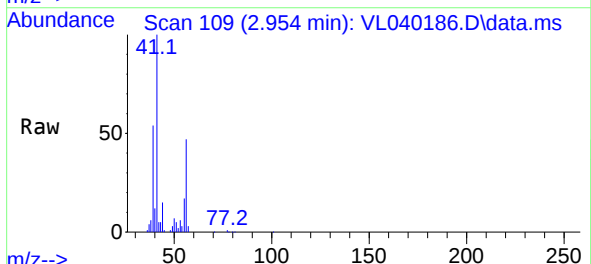
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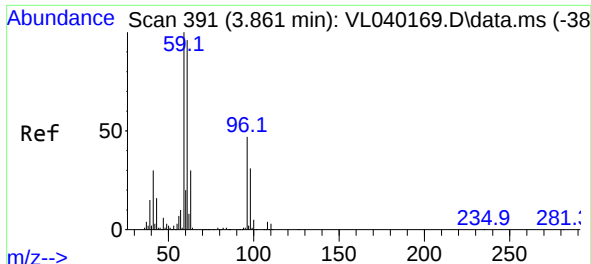
Tgt Ion: 43 Resp: 776331
Ion Ratio Lower Upper
43 100
58 38.6 22.4 33.6#



#16
1,3-Butadiene
Concen: 0.867 ppbv
RT: 2.954 min Scan# 109
Delta R.T. -0.013 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

Tgt Ion: 39 Resp: 45215
Ion Ratio Lower Upper
39 100
54 18.8 66.7 100.1#





#17

tert-Butyl alcohol

Concen: 0.779 ppbv

RT: 3.883 min Scan# 305

Delta R.T. 0.022 min

Lab File: VL040186.D

Acq: 16 Feb 2023 20:21

Instrument :

MSVOA_L

ClientSampleId :

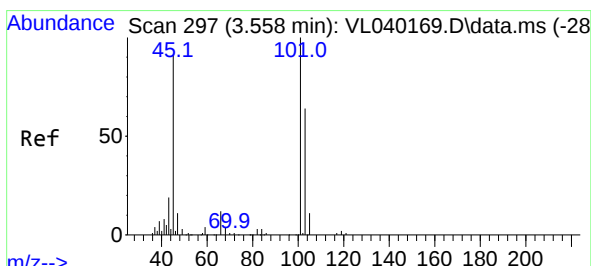
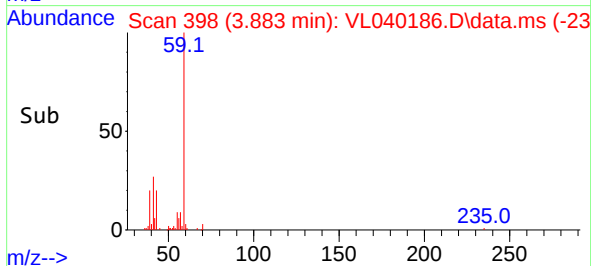
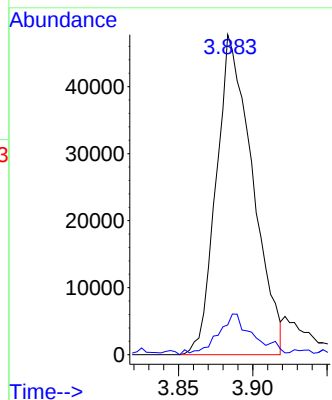
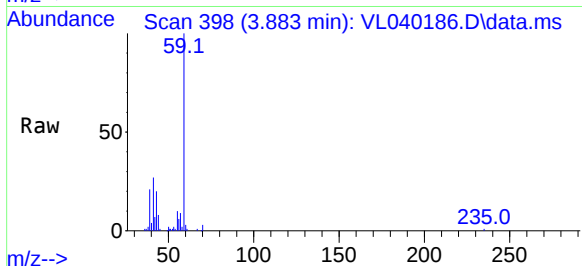
SVP-03DL

Tgt Ion: 59 Resp: 81113

Ion Ratio Lower Upper

59 100

57 12.3 8.5 12.7



#19

Isopropyl Alcohol

Concen: 0.234 ppbv

RT: 3.584 min Scan# 305

Delta R.T. 0.026 min

Lab File: VL040186.D

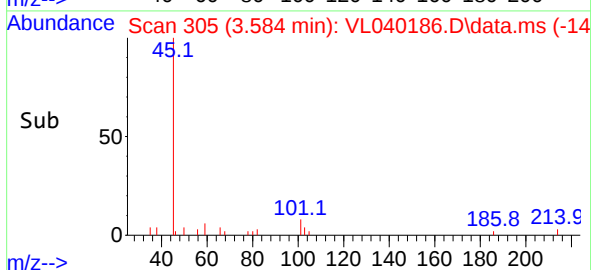
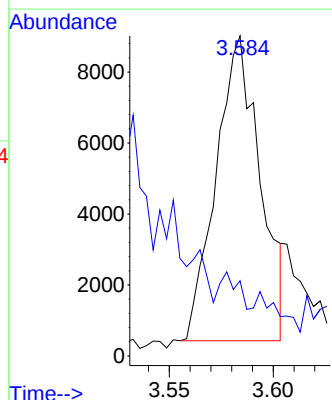
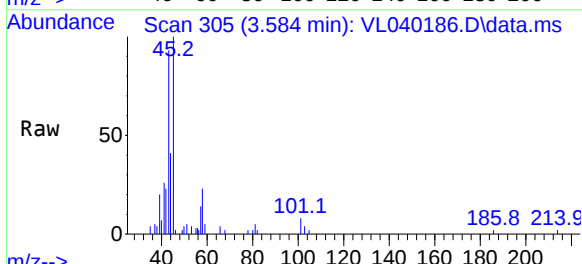
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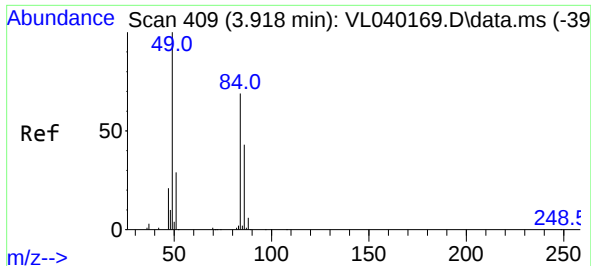
Tgt Ion: 45 Resp: 12678

Ion Ratio Lower Upper

45 100

58 0.0 2.6 3.8#

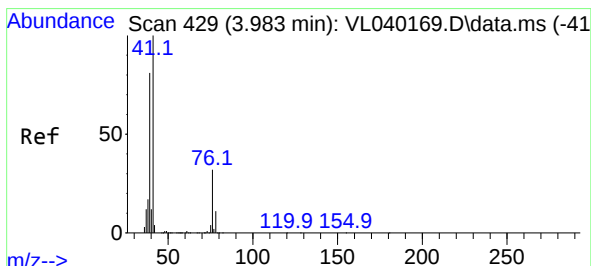
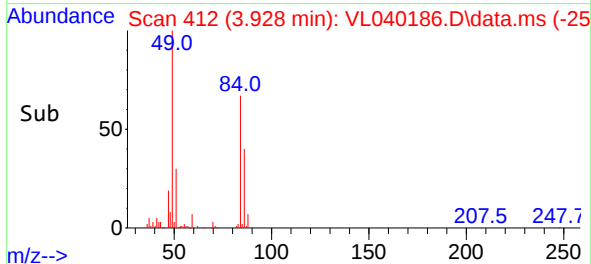
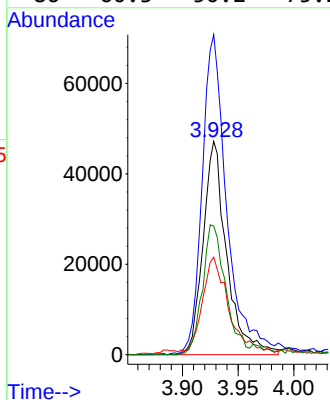
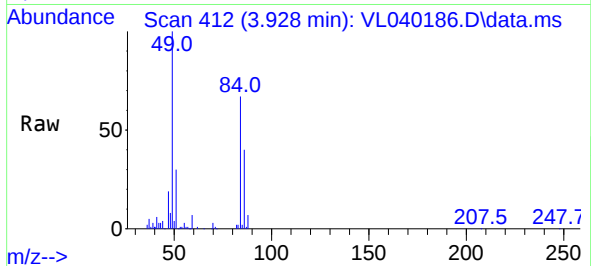




#20
Methylene Chloride
Concen: 1.176 ppbv
RT: 3.928 min Scan# 411
Delta R.T. 0.010 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

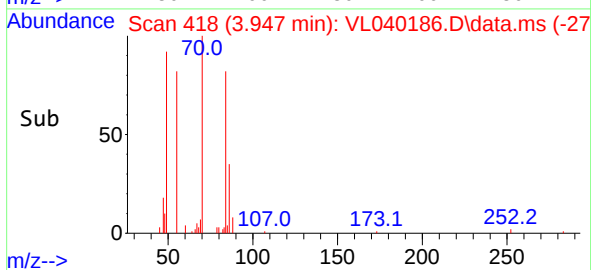
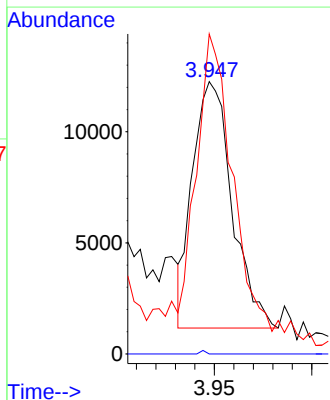
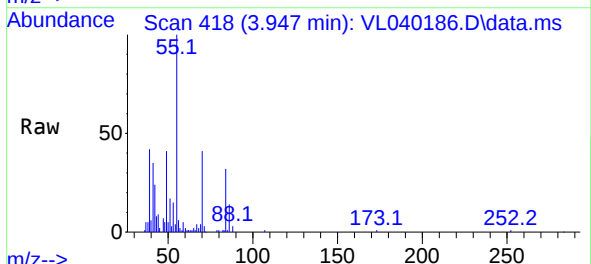
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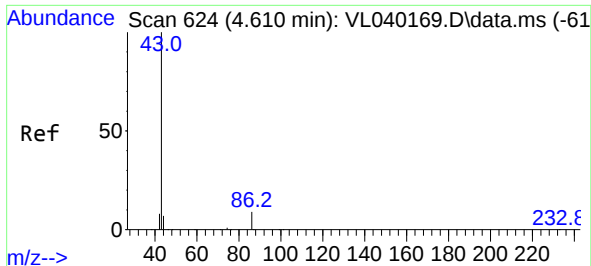
Tgt Ion: 84 Resp: 69863
Ion Ratio Lower Upper
84 100
49 149.6 115.5 173.3
51 44.4 33.1 49.7
86 60.3 50.2 75.2



#21
Allyl Chloride
Concen: 0.223 ppbv
RT: 3.947 min Scan# 418
Delta R.T. -0.035 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

Tgt Ion: 41 Resp: 15624
Ion Ratio Lower Upper
41 100
76 74.4 25.5 38.3#
39 135.5 64.5 96.7#



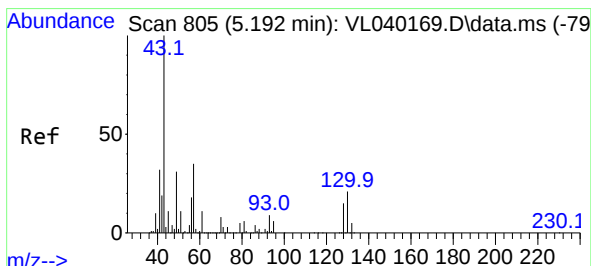
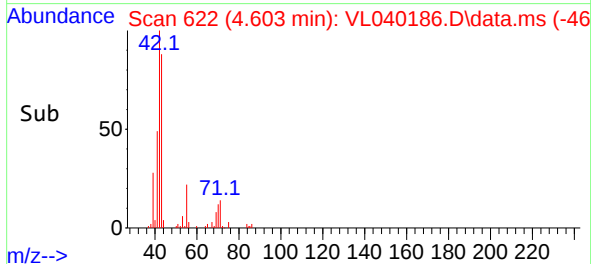
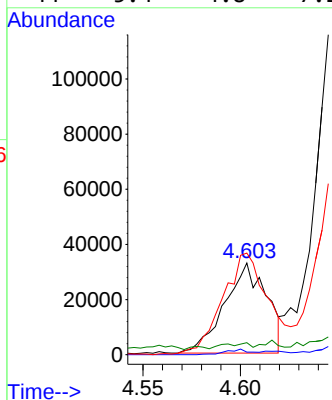
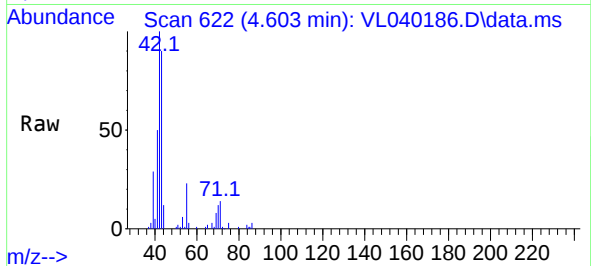


#23
 Vinyl Acetate
 Concen: 1.411 ppbv
 RT: 4.603 min Scan# 61
 Delta R.T. -0.007 min
 Lab File: VL040186.D
 Acq: 16 Feb 2023 20:21

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-03DL

Tgt Ion: 43 Resp: 48878

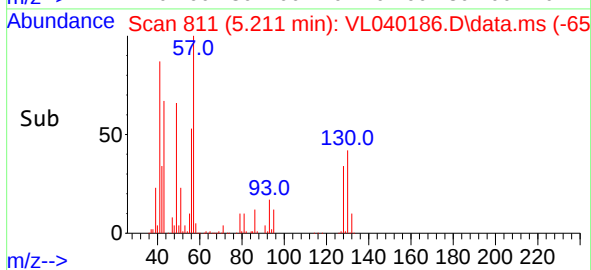
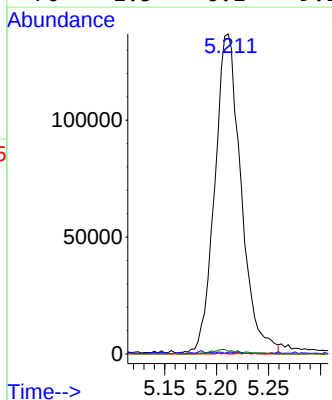
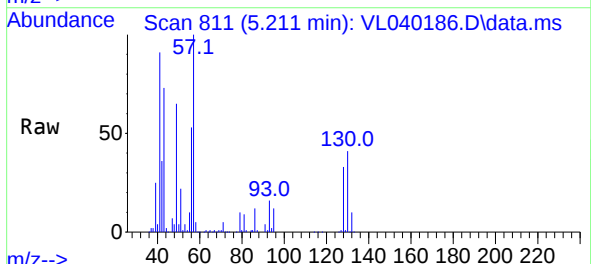
Ion	Ratio	Lower	Upper
43	100		
86	2.9	5.6	8.4#
42	111.3	7.6	11.4#
44	5.4	4.8	7.2

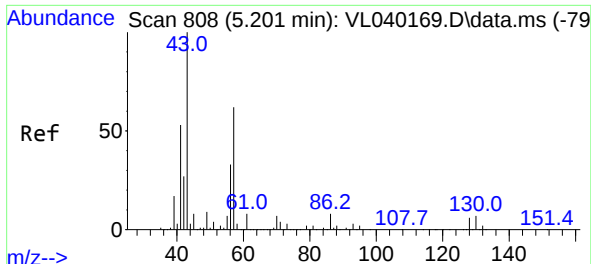


#25
 Ethyl Acetate
 Concen: 1.133 ppbv
 RT: 5.211 min Scan# 811
 Delta R.T. 0.019 min
 Lab File: VL040186.D
 Acq: 16 Feb 2023 20:21

Tgt Ion: 43 Resp: 240439

Ion	Ratio	Lower	Upper
43	100		
45	1.1	8.3	12.5#
61	0.2	8.4	12.6#
70	1.5	6.1	9.1#

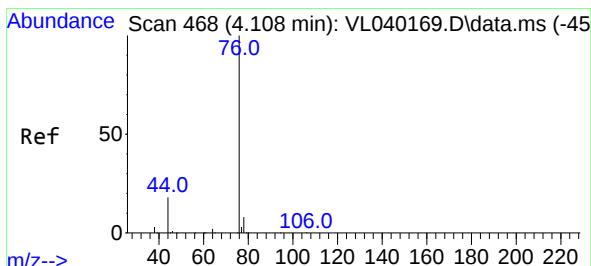
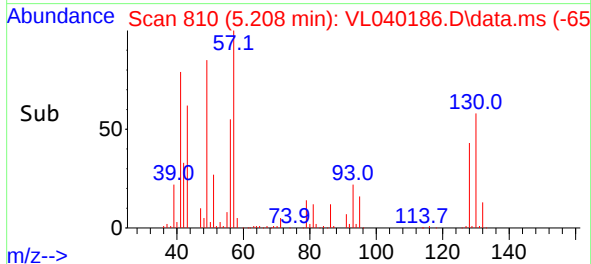
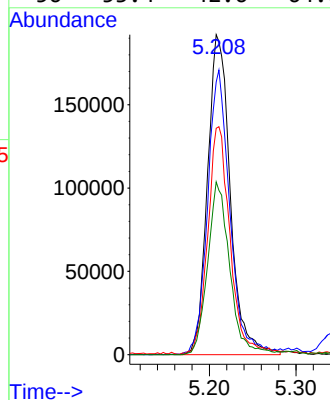
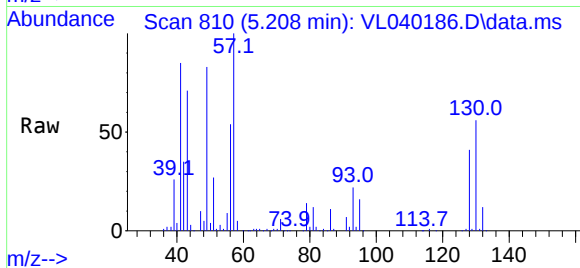




#26
Hexane
Concen: 3.849 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.006 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

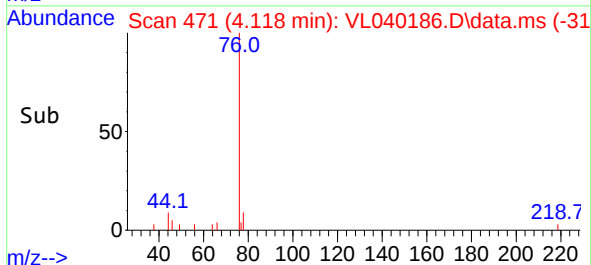
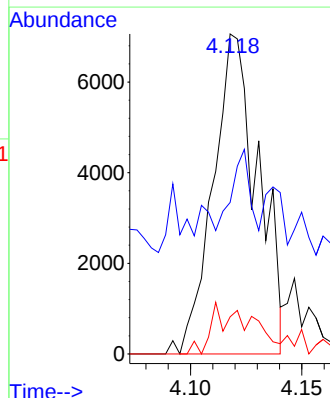
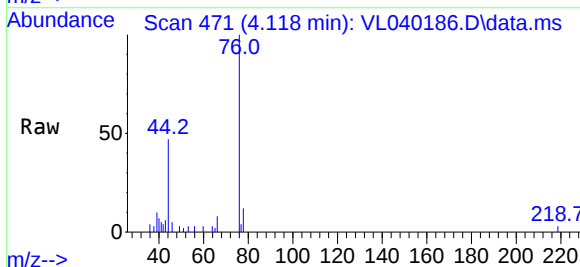
Instrument :
MSVOA_L
ClientSampleId :
SVP-03DL

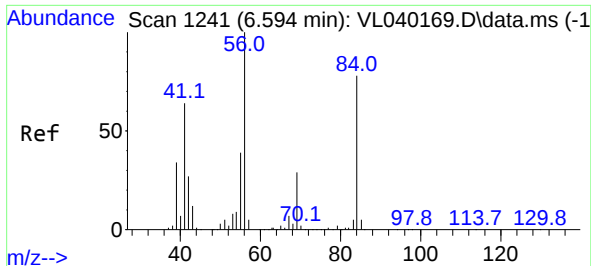
Tgt Ion: 57 Resp: 350671
Ion Ratio Lower Upper
57 100
41 89.1 74.3 111.5
43 70.2 193.0 289.4#
56 53.4 42.6 64.0



#27
Carbon Disulfide
Concen: 0.085 ppbv
RT: 4.118 min Scan# 471
Delta R.T. 0.010 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

Tgt Ion: 76 Resp: 9847
Ion Ratio Lower Upper
76 100
44 44.0 15.3 22.9#
78 15.1 7.7 11.5#

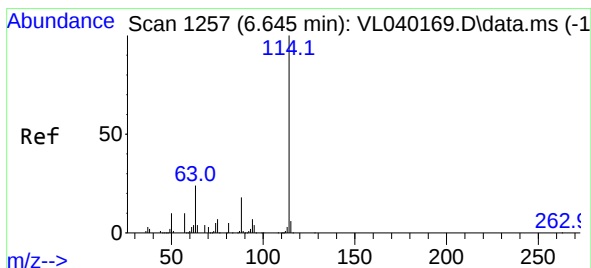
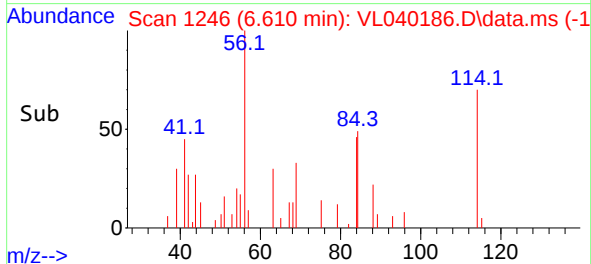
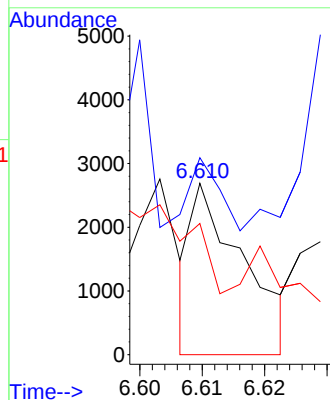
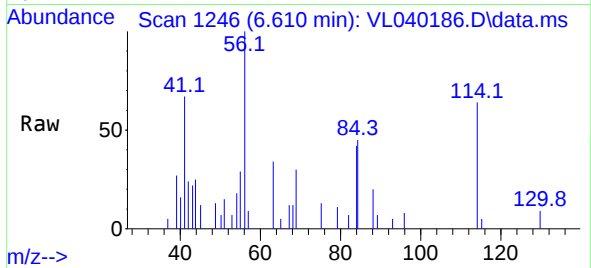




#30
Cyclohexane
Concen: 0.022 ppbv
RT: 6.610 min Scan# 11
Delta R.T. 0.016 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

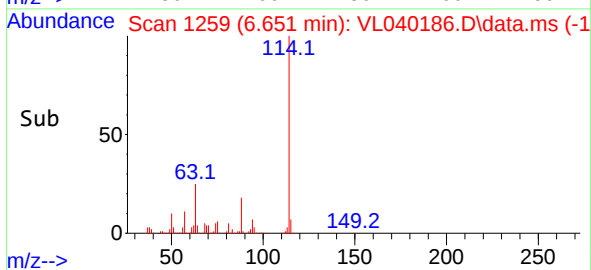
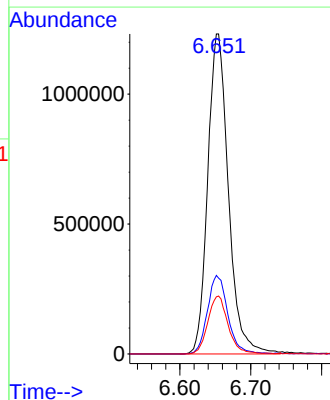
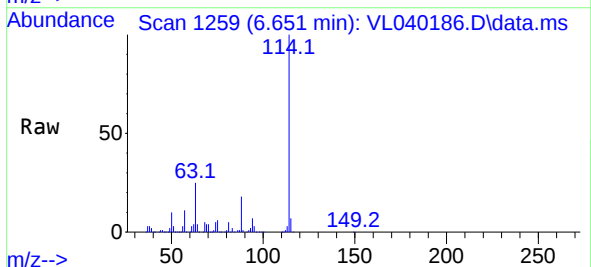
Instrument :
MSVOA_L
ClientSampleId :
SVP-03DL

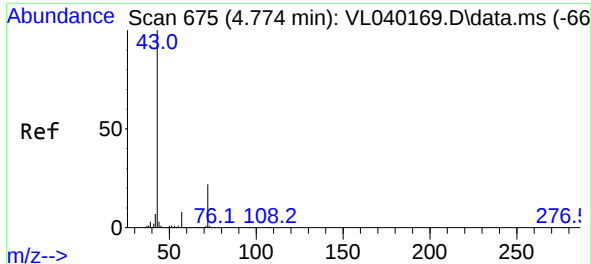
Tgt Ion: 84 Resp: 1566
Ion Ratio Lower Upper
84 100
56 0.0 109.9 164.9#
41 0.0 67.8 101.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.651 min Scan# 1259
Delta R.T. 0.006 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

Tgt Ion: 114 Resp: 2492519
Ion Ratio Lower Upper
114 100
63 24.5 20.4 30.6
88 17.9 14.3 21.5

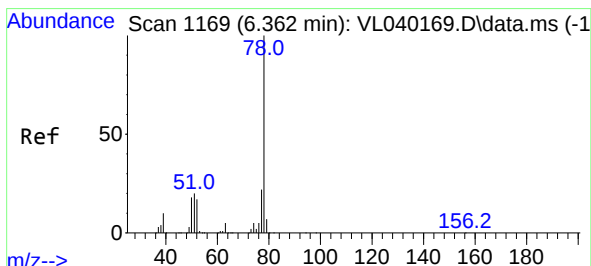
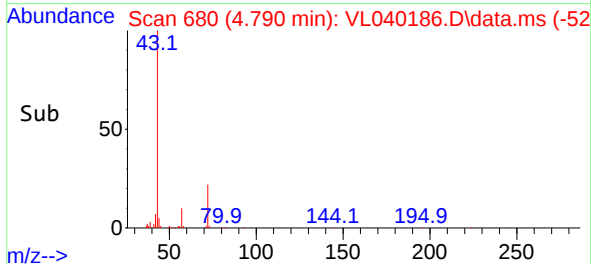
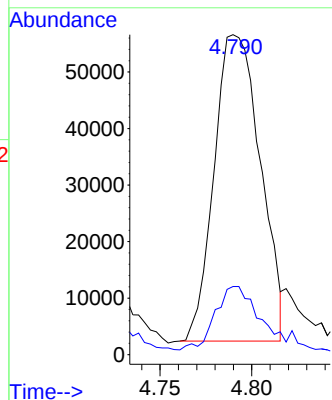
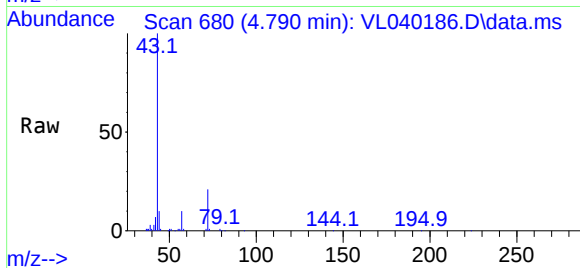




#34
2-Butanone
Concen: 0.772 ppbv
RT: 4.790 min Scan# 61
Delta R.T. 0.016 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

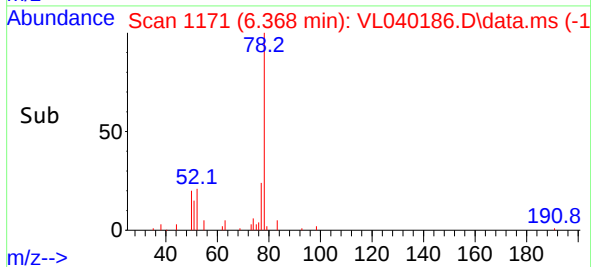
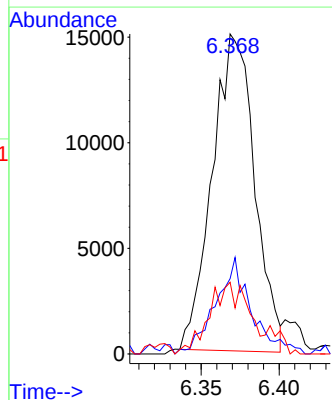
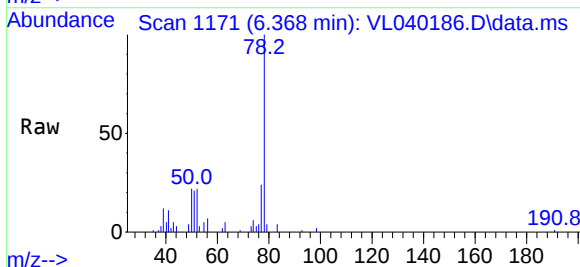
Instrument :
MSVOA_L
ClientSampleId :
SVP-03DL

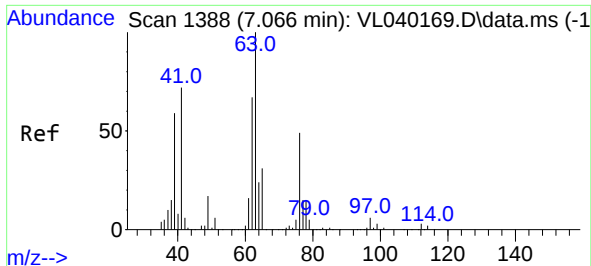
Tgt Ion: 43 Resp: 94972
Ion Ratio Lower Upper
43 100
72 28.5 17.8 26.8#



#36
Benzene
Concen: 0.147 ppbv
RT: 6.368 min Scan# 1171
Delta R.T. 0.006 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

Tgt Ion: 78 Resp: 28430
Ion Ratio Lower Upper
78 100
77 22.4 17.5 26.3
50 21.4 14.6 22.0





#39

1,2-Dichloropropane

Concen: 7.984 ppbv

RT: 6.651 min Scan# 11

Delta R.T. -0.415 min

Lab File: VL040186.D

Acq: 16 Feb 2023 20:21

Instrument :

MSVOA_L

ClientSampleId :

SVP-03DL

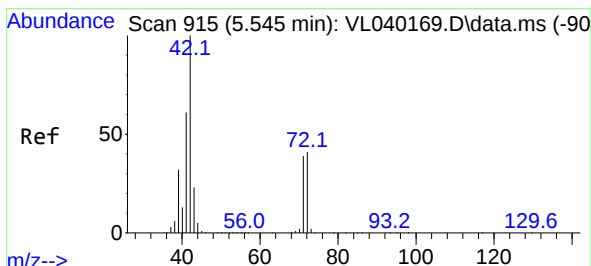
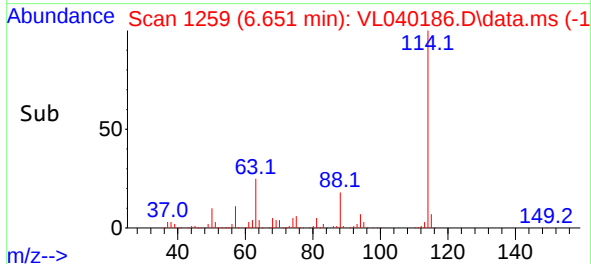
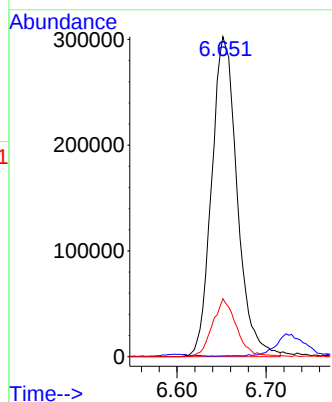
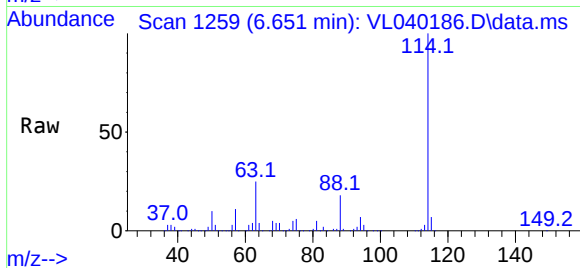
Tgt Ion: 63 Resp: 602466

Ion Ratio Lower Upper

63 100

41 0.0 57.6 86.4#

62 18.1 54.0 81.0#



#41

Tetrahydrofuran

Concen: 0.201 ppbv

RT: 5.815 min Scan# 999

Delta R.T. 0.270 min

Lab File: VL040186.D

Acq: 16 Feb 2023 20:21

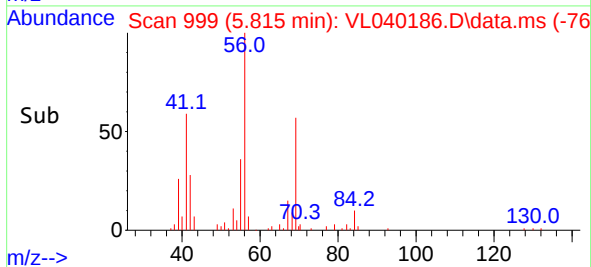
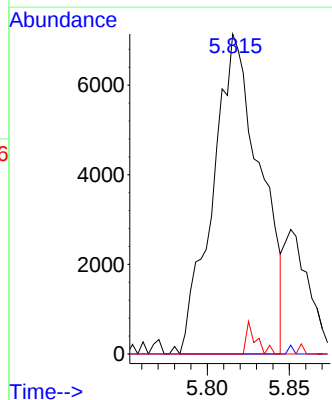
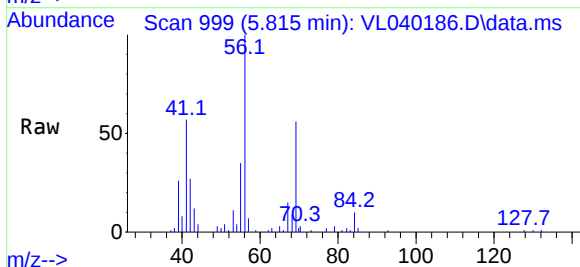
Tgt Ion: 42 Resp: 14331

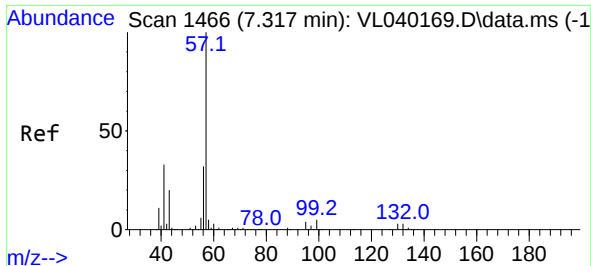
Ion Ratio Lower Upper

42 100

72 0.0 33.0 49.4#

71 0.0 31.4 47.2#

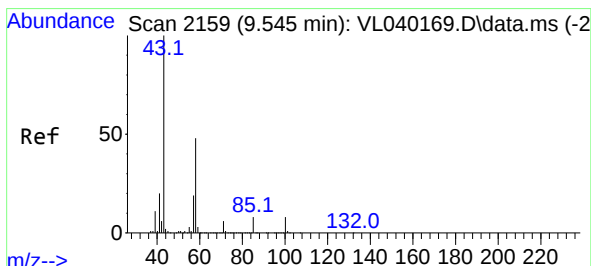
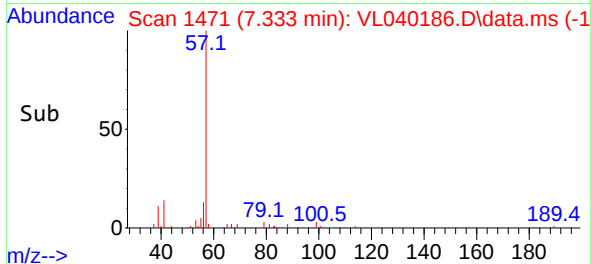
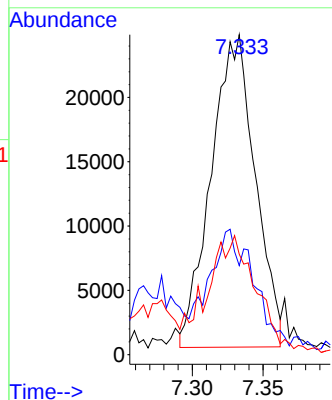
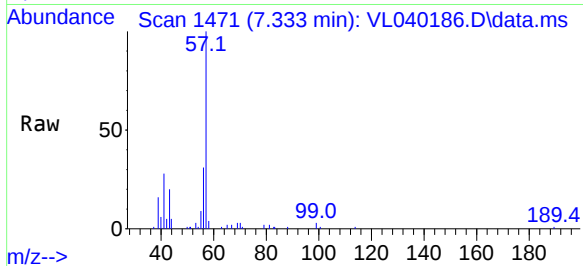




#44
2,2,4-Trimethylpentane
Concen: 0.163 ppbv
RT: 7.333 min Scan# 1466
Delta R.T. 0.016 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

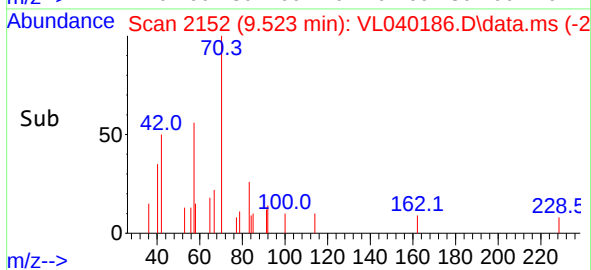
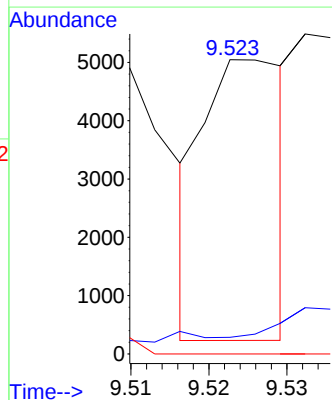
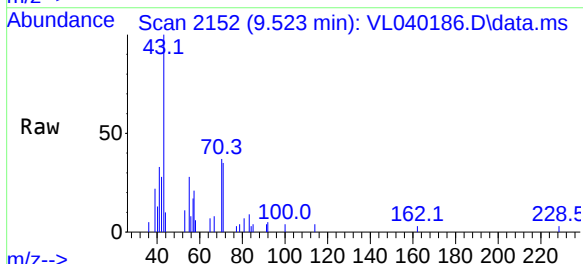
Instrument :
MSVOA_1
ClientSampleId :
SVP-03DL

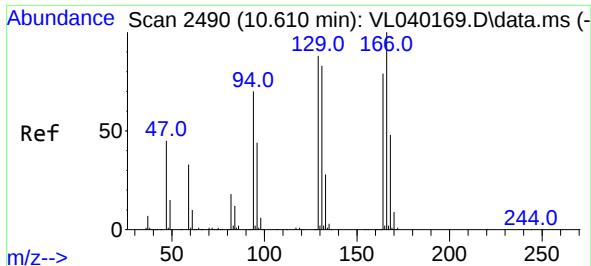
Tgt Ion: 57 Resp: 52672
Ion Ratio Lower Upper
57 100
41 41.5 26.2 39.4#
56 39.9 24.9 37.3#



#51
2-Hexanone
Concen: 0.024 ppbv
RT: 9.523 min Scan# 2152
Delta R.T. -0.023 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

Tgt Ion: 43 Resp: 3482
Ion Ratio Lower Upper
43 100
58 0.0 39.1 58.7#
98 6.1 0.2 0.4#

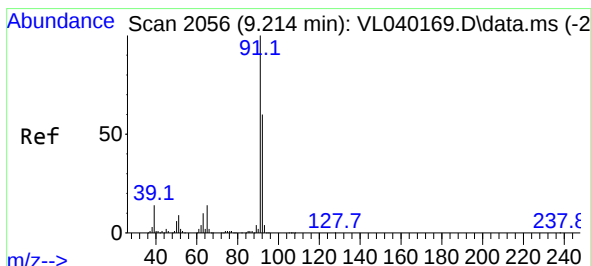
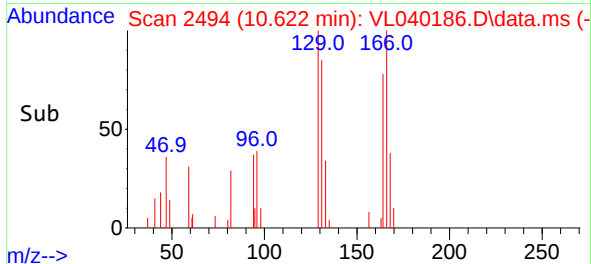
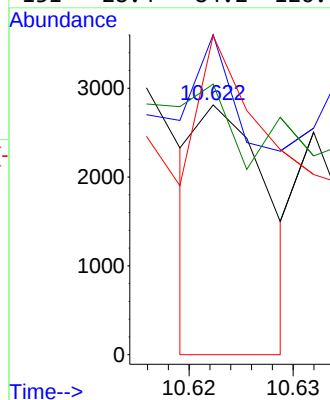
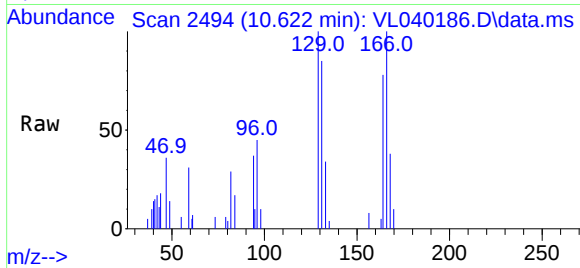




#52
Tetrachloroethene
Concen: 0.021 ppbv
RT: 10.622 min Scan# 2494
Delta R.T. 0.013 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

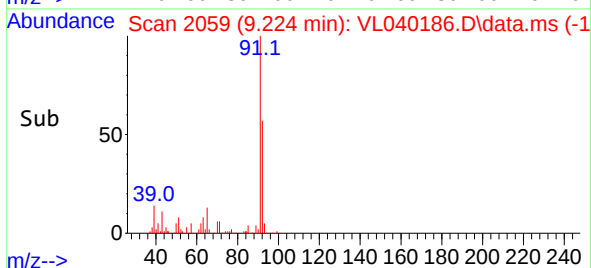
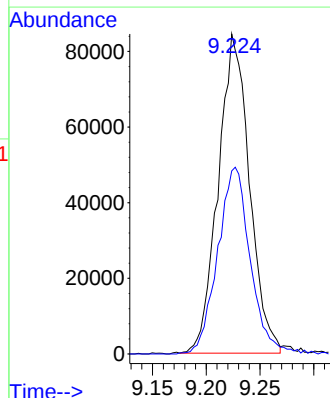
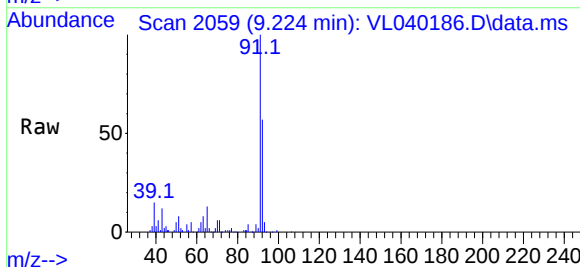
Instrument :
MSVOA_L
ClientSampleId :
SVP-03DL

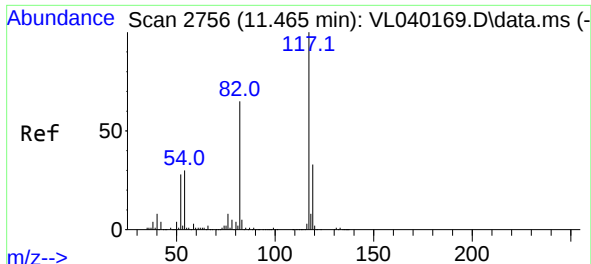
Tgt Ion:164 Resp: 1301
Ion Ratio Lower Upper
164 100
166 99.8 101.5 152.3#
129 128.7 89.0 133.4
131 28.4 84.2 126.4#



#53
Toluene
Concen: 0.821 ppbv
RT: 9.224 min Scan# 2059
Delta R.T. 0.010 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

Tgt Ion: 91 Resp: 170549
Ion Ratio Lower Upper
91 100
92 61.6 48.9 73.3

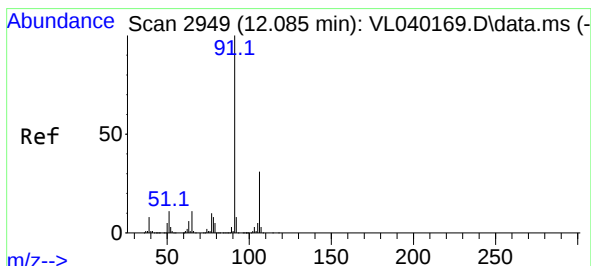
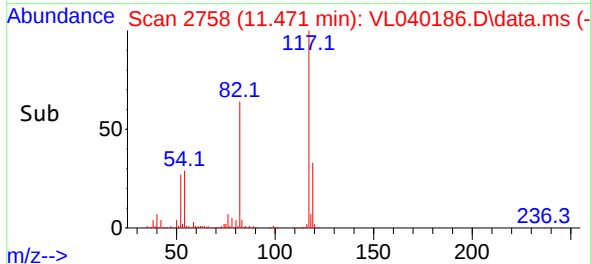
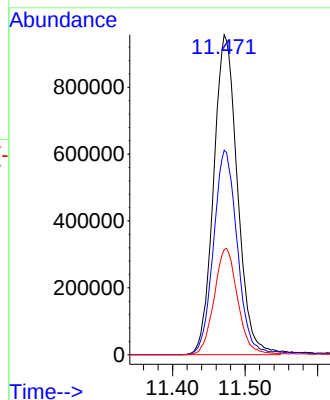
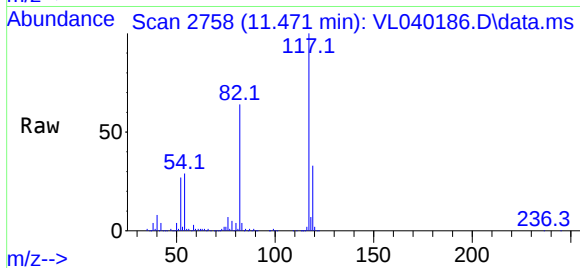




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.471 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

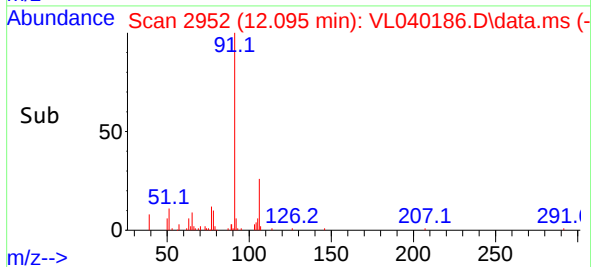
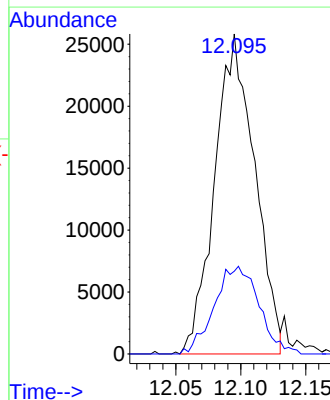
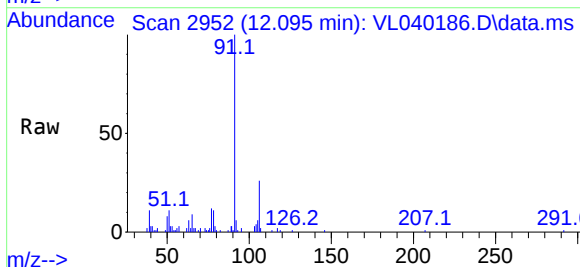
Instrument :
MSVOA_L
ClientSampleId :
SVP-03DL

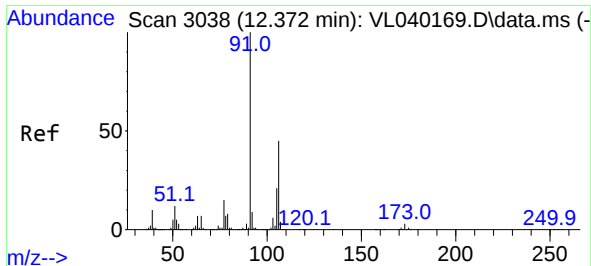
Tgt Ion:117 Resp: 2183379
Ion Ratio Lower Upper
117 100
82 65.1 53.3 79.9
119 33.2 24.6 37.0



#58
Ethyl Benzene
Concen: 0.209 ppbv
RT: 12.095 min Scan# 2952
Delta R.T. 0.010 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

Tgt Ion: 91 Resp: 55313
Ion Ratio Lower Upper
91 100
106 25.8 24.9 37.3





#59

m/p-Xylene

Concen: 0.231 ppbv

RT: 12.375 min Scan# 3038

Delta R.T. 0.003 min

Lab File: VL040186.D

Acq: 16 Feb 2023 20:21

Instrument :

MSVOA_L

ClientSampleId :

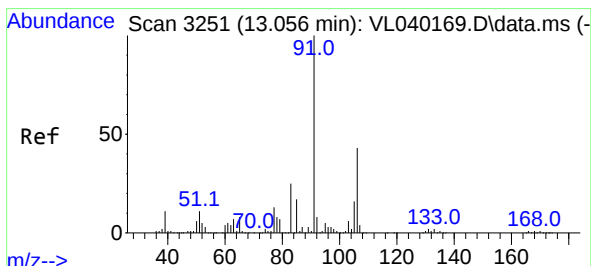
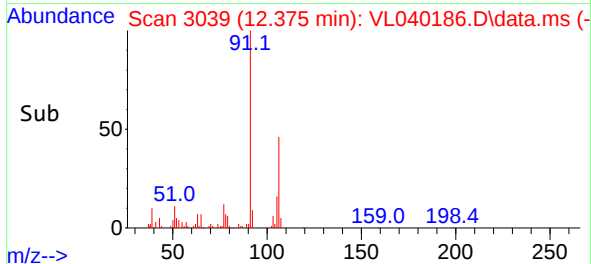
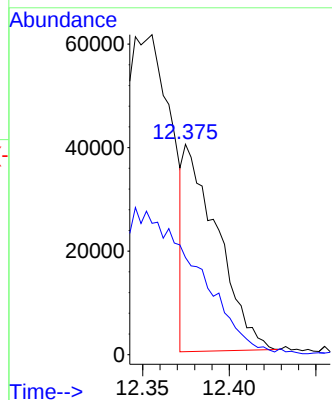
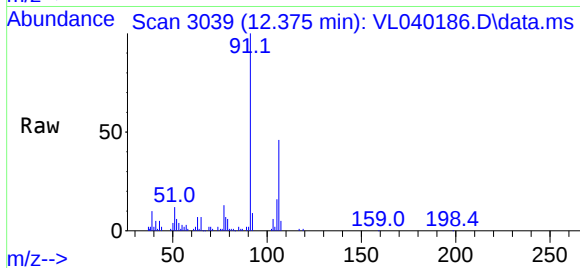
SVP-03DL

Tgt Ion: 91 Resp: 54388

Ion Ratio Lower Upper

91 100

106 0.0 34.6 51.8#



#60

o-Xylene

Concen: 0.235 ppbv

RT: 13.063 min Scan# 3253

Delta R.T. 0.006 min

Lab File: VL040186.D

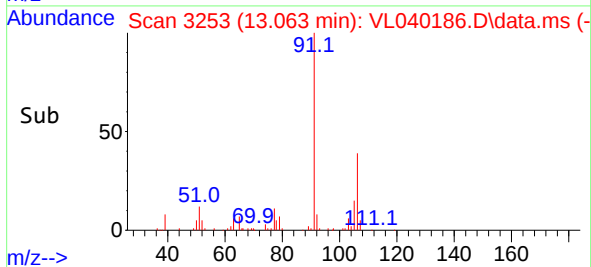
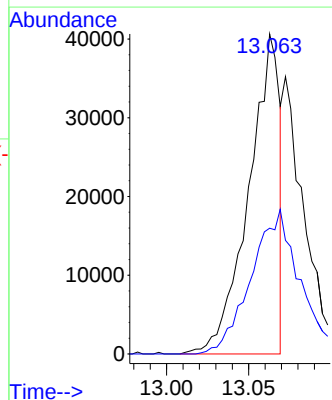
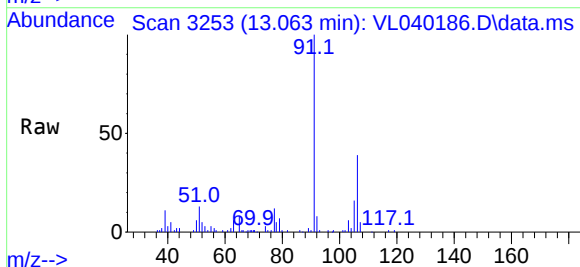
Acq: 16 Feb 2023 20:21

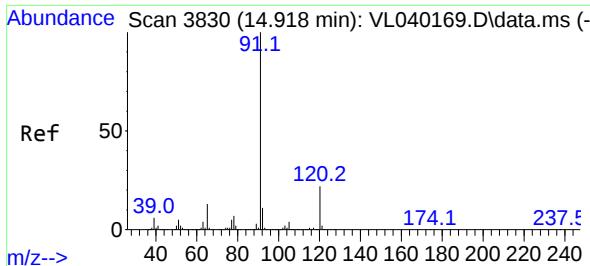
Tgt Ion: 91 Resp: 53127

Ion Ratio Lower Upper

91 100

106 0.0 21.6 65.0#

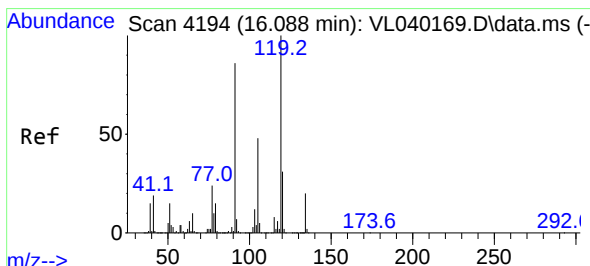
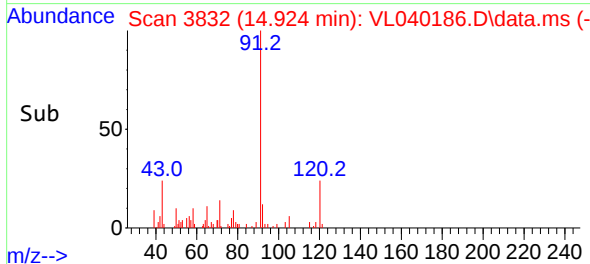
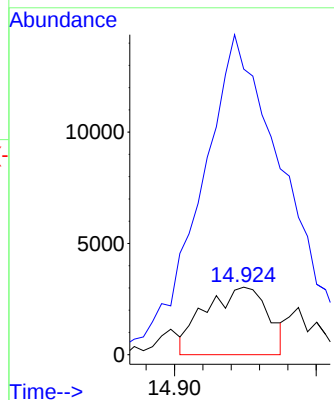
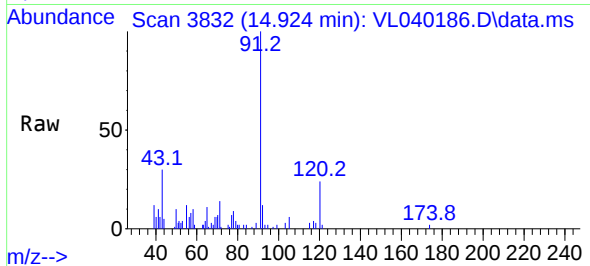




#64
n-propylbenzene
Concen: 0.058 ppbv
RT: 14.924 min Scan# 3830
Delta R.T. 0.006 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

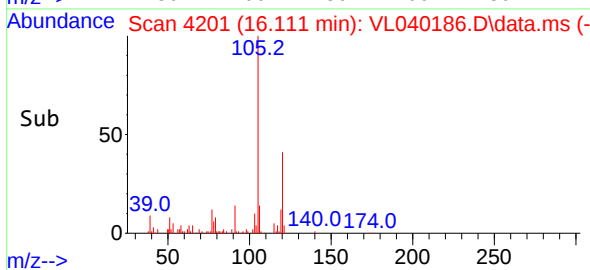
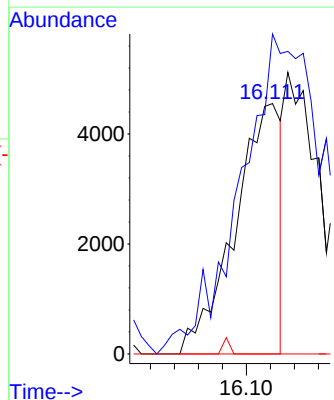
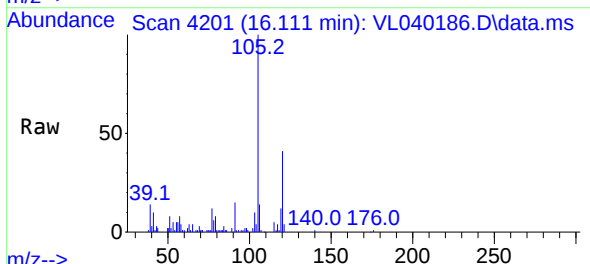
Instrument :
MSVOA_L
ClientSampleId :
SVP-03DL

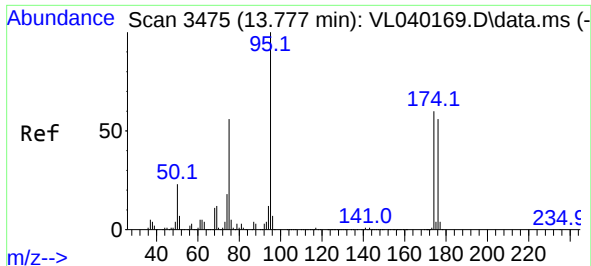
Tgt Ion:120 Resp: 4666
Ion Ratio Lower Upper
120 100
91 682.0 389.8 584.8#



#65
tert-Butylbenzene
Concen: 0.022 ppbv
RT: 16.111 min Scan# 4201
Delta R.T. 0.022 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

Tgt Ion:119 Resp: 6119
Ion Ratio Lower Upper
119 100
91 249.5 68.6 102.8#
134 0.0 15.9 23.9#

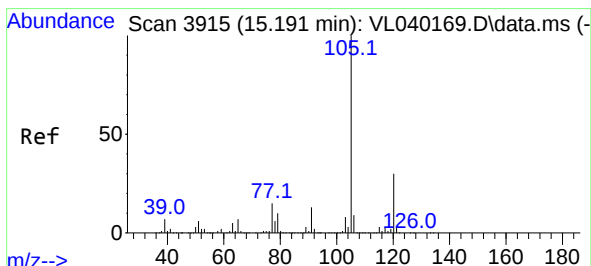
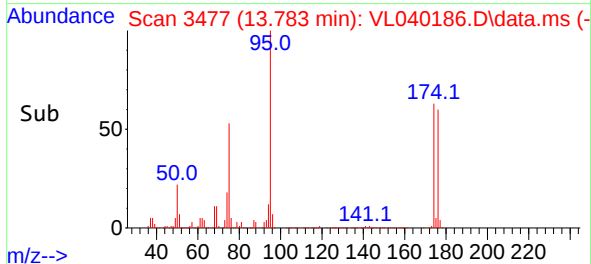
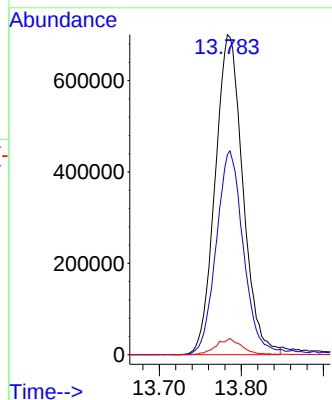
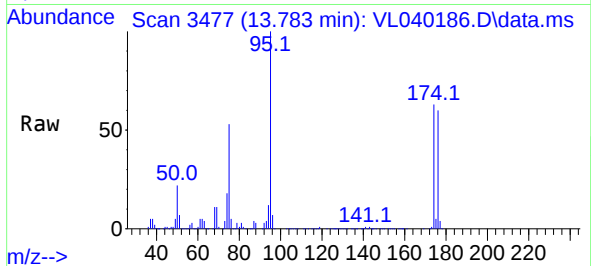




#68
1-Bromo-4-Fluorobenzene
Concen: 9.169 ppbv
RT: 13.783 min Scan# 3475
Delta R.T. 0.006 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

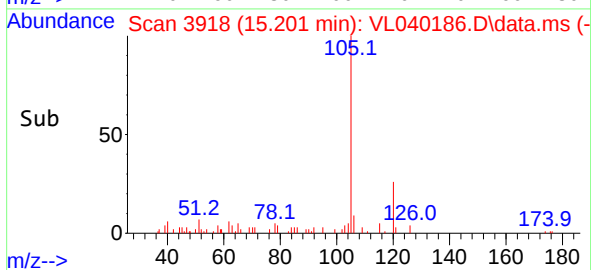
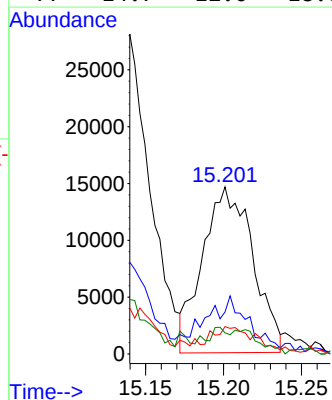
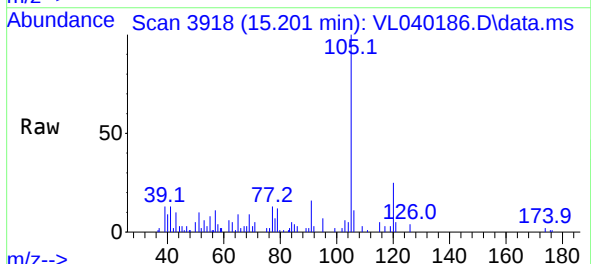
Instrument :
MSVOA_L
ClientSampleId :
SVP-03DL

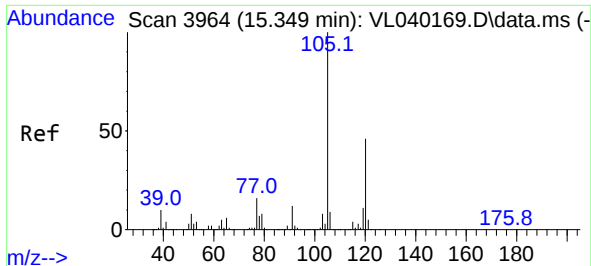
Tgt Ion: 95 Resp: 1646264
Ion Ratio Lower Upper
95 100
174 64.6 48.2 72.2
175 4.7 3.4 5.2



#72
4-Ethyltoluene
Concen: 0.131 ppbv
RT: 15.201 min Scan# 3918
Delta R.T. 0.010 min
Lab File: VL040186.D
Acq: 16 Feb 2023 20:21

Tgt Ion:105 Resp: 32685
Ion Ratio Lower Upper
105 100
120 33.7 23.2 34.8
91 18.4 11.3 16.9#
77 14.7 12.0 18.0

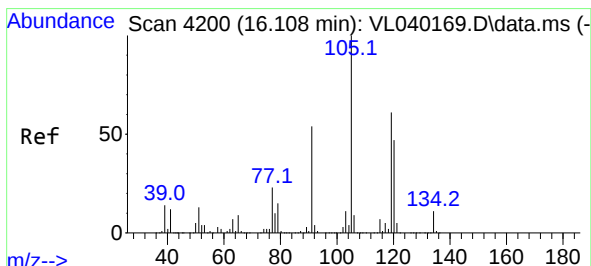
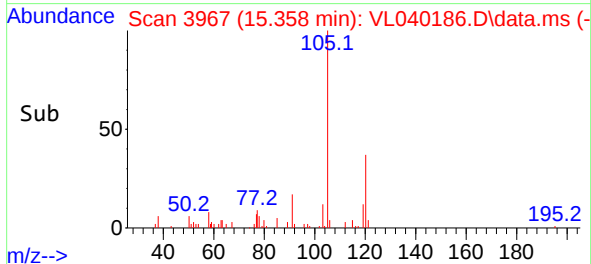
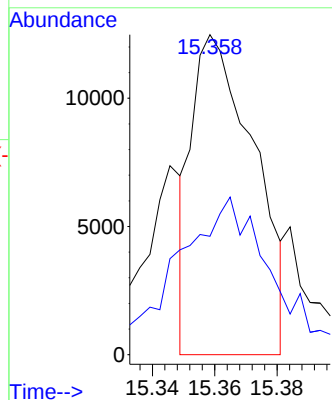
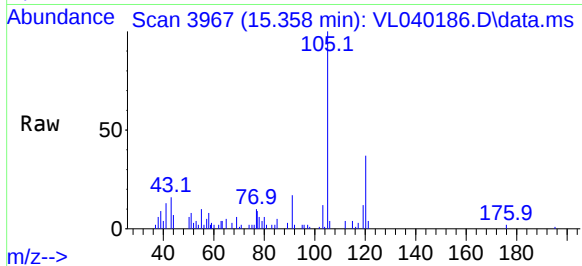




#73
 1,3,5-Trimethylbenzene
 Concen: 0.074 ppbv
 RT: 15.358 min Scan# 3964
 Delta R.T. 0.010 min
 Lab File: VL040186.D
 Acq: 16 Feb 2023 20:21

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-03DL

Tgt Ion:105 Resp: 17288
 Ion Ratio Lower Upper
 105 100
 120 26.7 36.8 55.2#



#74
 1,2,4-Trimethylbenzene
 Concen: 0.396 ppbv
 RT: 16.117 min Scan# 4203
 Delta R.T. 0.010 min
 Lab File: VL040186.D
 Acq: 16 Feb 2023 20:21

Tgt Ion:105 Resp: 101126
 Ion Ratio Lower Upper
 105 100
 120 38.2 37.9 56.9
 91 11.1 43.7 65.5#
 77 11.7 18.3 27.5#

