

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL021323\
 Data File : VL040162.D
 Acq On : 13 Feb 2023 16:13
 Operator : SY/MD
 Sample : 01530-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-01

Quant Time: Feb 14 01:46:44 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL011623AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Feb 14 01:41:11 2023
 Response via : Initial Calibration

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

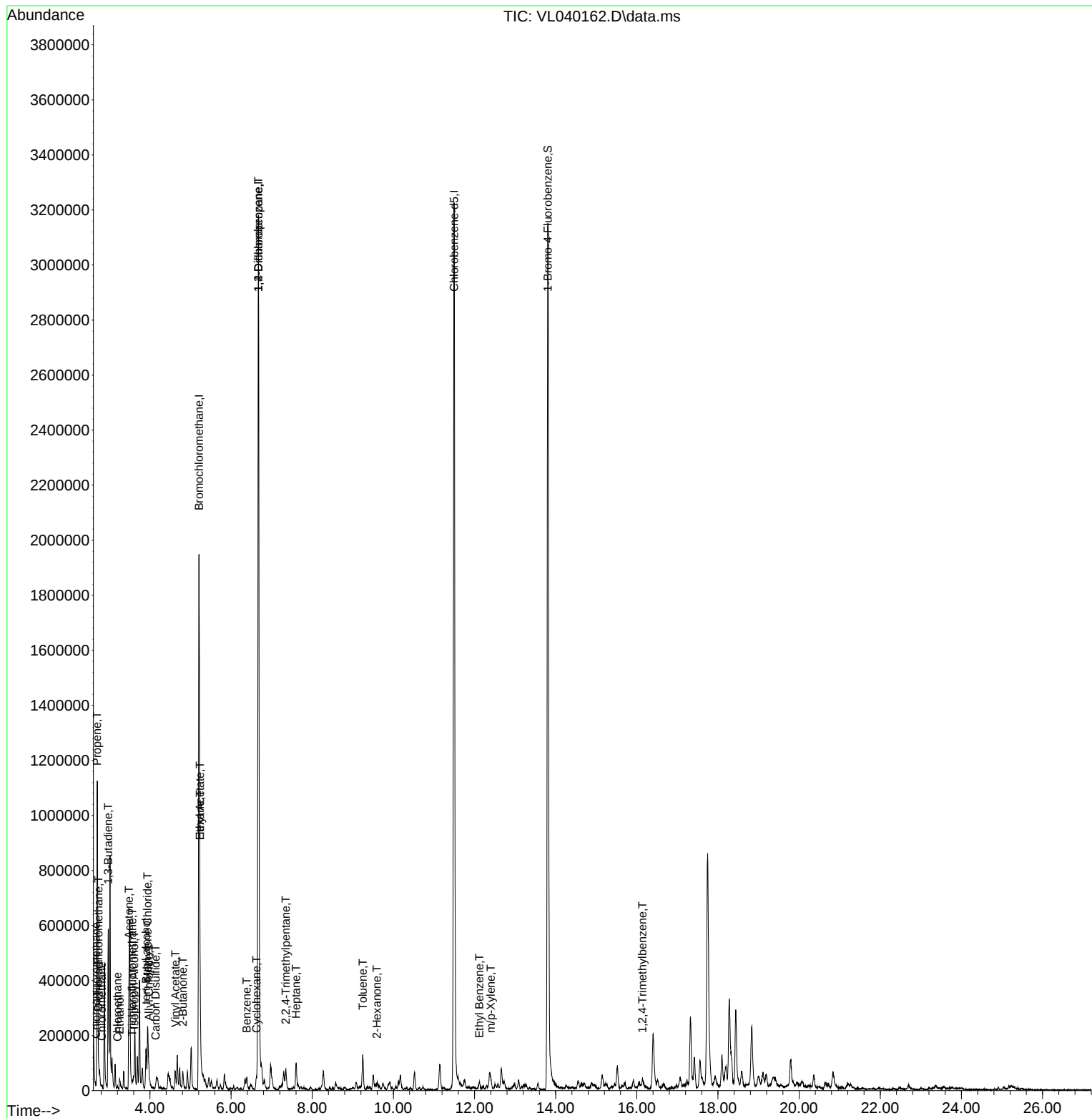
Internal Standards						
1) Bromochloromethane	5.208	49	920351	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.674	114	2365451	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.497	117	2055814	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.809	95	1612240	9.436	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	94.400%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.732	85	15909	0.099	ppbv	97
3) Chlorodifluoromethane	2.674	51	17485	0.158	ppbv #	77
4) Chloromethane	2.816	50	7039	0.103	ppbv	98
7) Chloroethane	3.201	64	4647	0.210	ppbv #	82
9) Propene	2.697	41	453716	9.892	ppbv	88
10) Heptane	7.603	43	37877	0.358	ppbv	96
11) Trichlorofluoromethane	3.568	101	5539	0.034	ppbv #	82
13) Ethanol	3.253	45	38488	9.117	ppbv	92
15) Acetone	3.481	43	492334	4.460	ppbv	99
16) 1,3-Butadiene	2.973	39	160304	3.115	ppbv #	32
17) tert-Butyl alcohol	3.906	59	51844	0.504	ppbv #	75
19) Isopropyl Alcohol	3.610	45	11828	0.219	ppbv #	90
20) Methylene Chloride	3.944	84	73351	1.506	ppbv	96
21) Allyl Chloride	3.973	41	2346	0.033	ppbv #	17
23) Vinyl Acetate	4.626	43	11245	0.314	ppbv #	1
25) Ethyl Acetate	5.230	43	72955	0.375	ppbv #	78
26) Hexane	5.230	57	106113	1.247	ppbv #	37
27) Carbon Disulfide	4.140	76	4571	0.041	ppbv #	57
30) Cyclohexane	6.626	84	5775	0.085	ppbv #	1
34) 2-Butanone	4.809	43	40383	0.361	ppbv #	50
36) Benzene	6.388	78	33916	0.194	ppbv #	93
39) 1,2-Dichloropropane	6.674	63	594353	8.680	ppbv #	24
44) 2,2,4-Trimethylpentane	7.349	57	53735	0.185	ppbv #	79
51) 2-Hexanone	9.593	43	9524	0.071	ppbv #	30
53) Toluene	9.246	91	77110	0.413	ppbv	99
58) Ethyl Benzene	12.121	91	9966	0.043	ppbv #	84
59) m/p-Xylene	12.404	91	11014	0.053	ppbv #	33
74) 1,2,4-Trimethylbenzene	16.140	105	12900	0.060	ppbv #	58

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

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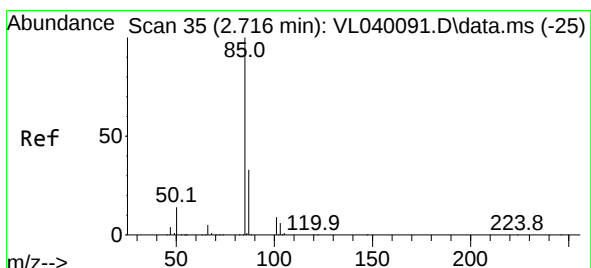
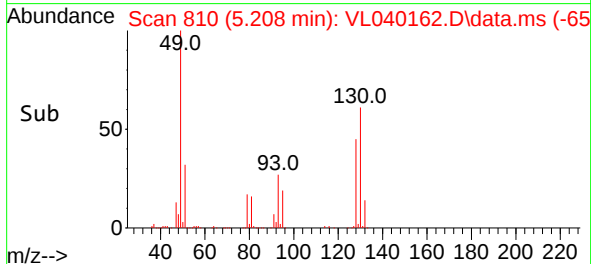
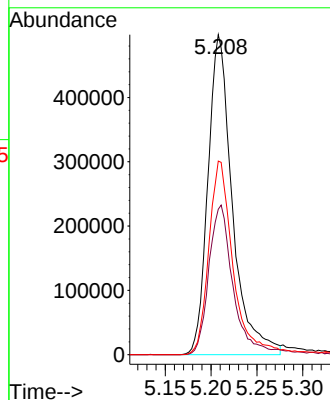
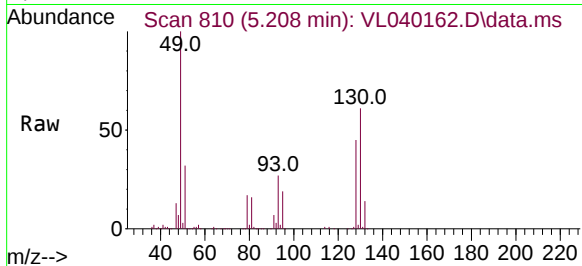




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.208 min Scan# 81
Delta R.T. -0.000 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

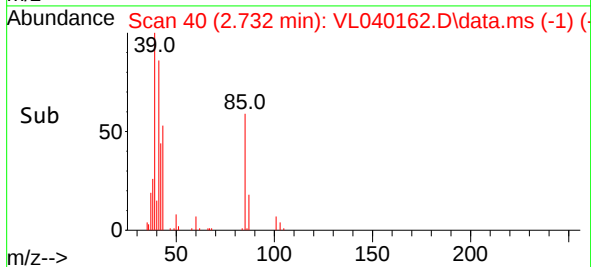
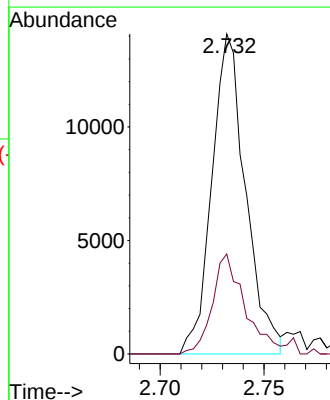
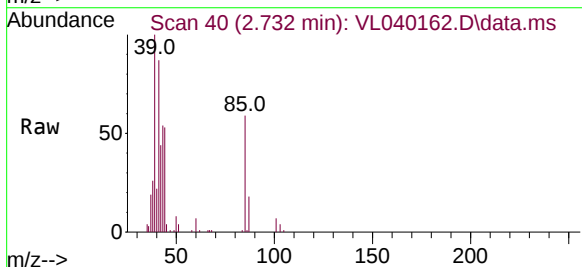
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SVP-01

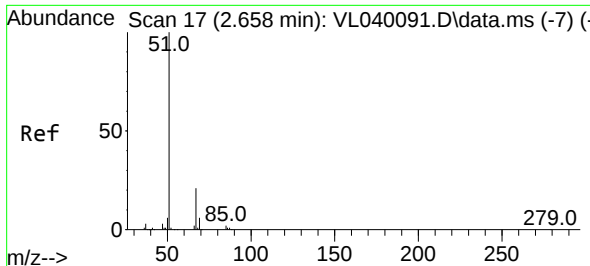
Tgt Ion: 49 Resp: 920351
Ion Ratio Lower Upper
49 100
128 47.7 23.6 71.0
130 62.2 29.8 89.3



#2
Dichlorodifluoromethane
Concen: 0.099 ppbv
RT: 2.732 min Scan# 40
Delta R.T. 0.003 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

Tgt Ion: 85 Resp: 15909
Ion Ratio Lower Upper
85 100
87 31.2 26.5 39.7

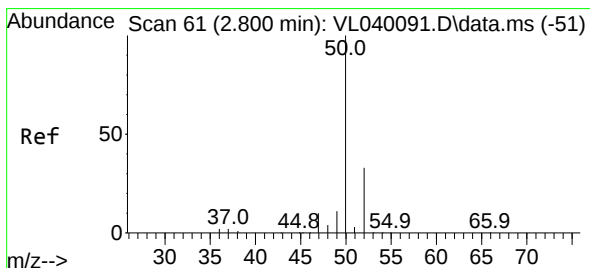
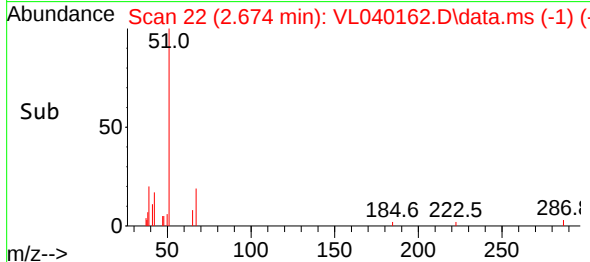
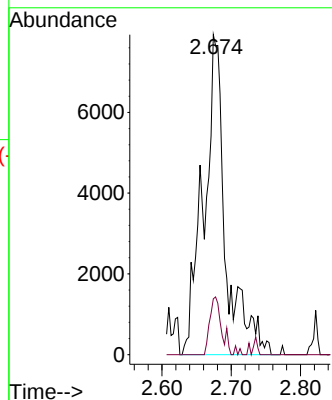
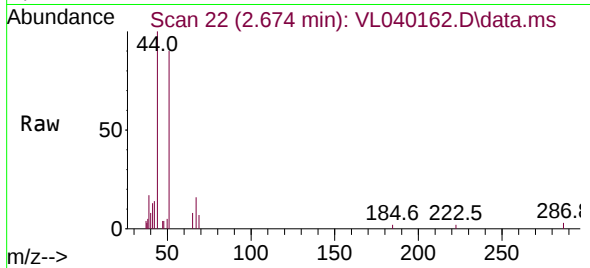




#3
Chlorodifluoromethane
Concen: 0.158 ppbv
RT: 2.674 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

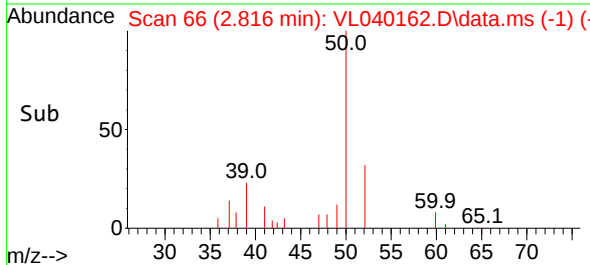
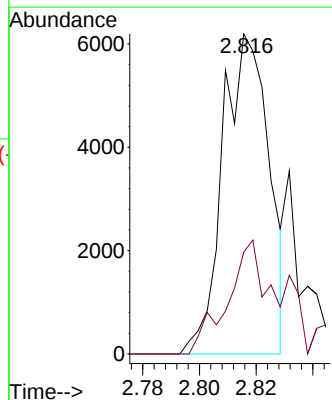
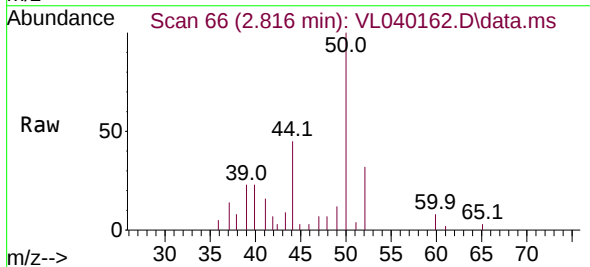
Instrument :
MSVOA_L
ClientSampleId :
SVP-01

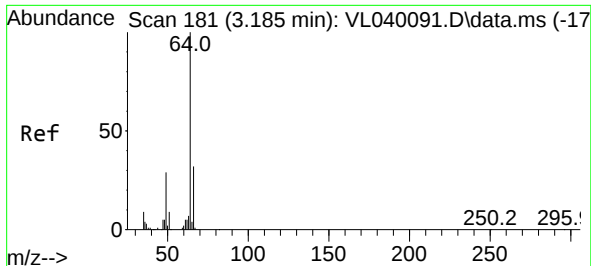
Tgt Ion: 51 Resp: 17485
Ion Ratio Lower Upper
51 100
67 9.8 16.4 24.6#



#4
Chloromethane
Concen: 0.103 ppbv
RT: 2.816 min Scan# 66
Delta R.T. 0.003 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

Tgt Ion: 50 Resp: 7039
Ion Ratio Lower Upper
50 100
52 31.8 26.5 39.7

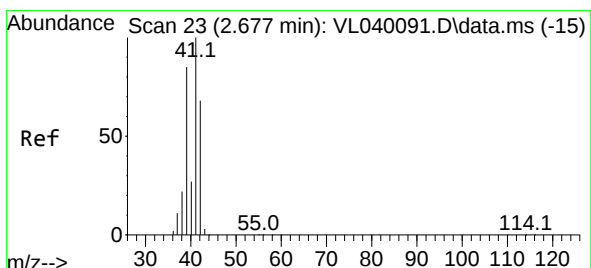
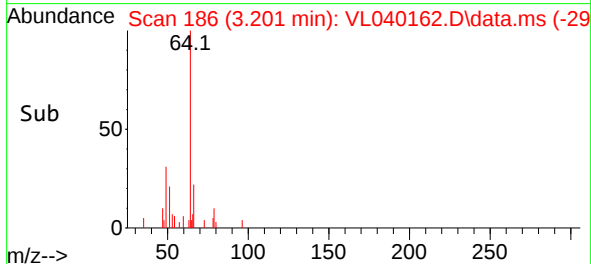
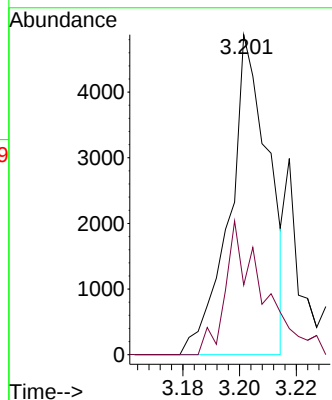
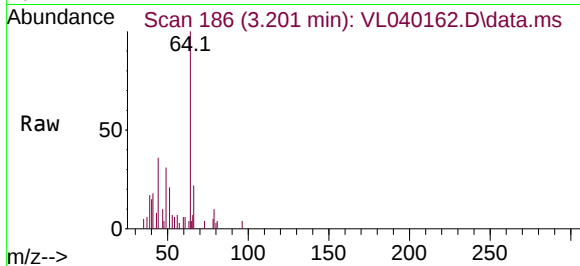




#7
Chloroethane
Concen: 0.210 ppbv
RT: 3.201 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

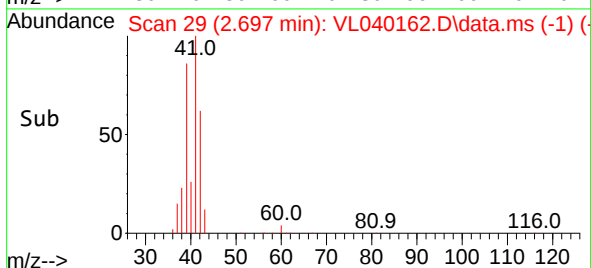
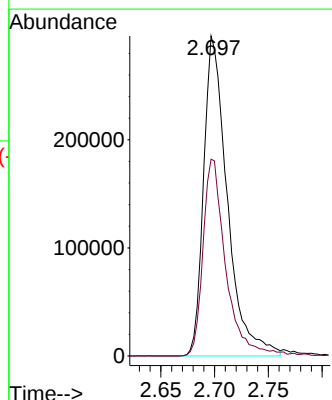
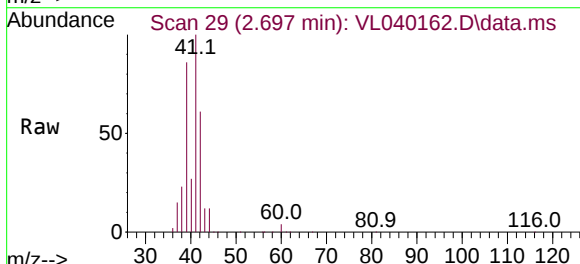
Instrument :
MSVOA_L
ClientSampleId :
SVP-01

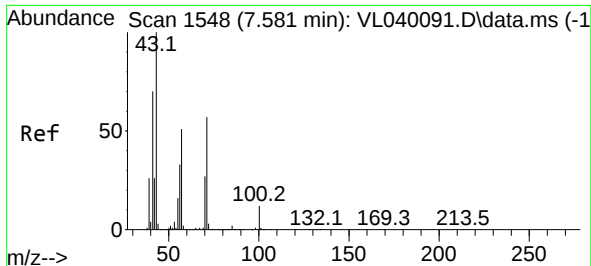
Tgt Ion: 64 Resp: 4647
Ion Ratio Lower Upper
64 100
66 21.8 25.6 38.4#



#9
Propene
Concen: 9.892 ppbv
RT: 2.697 min Scan# 29
Delta R.T. 0.003 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

Tgt Ion: 41 Resp: 453716
Ion Ratio Lower Upper
41 100
42 59.5 55.6 83.4

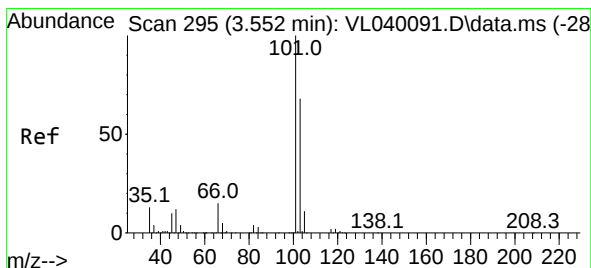
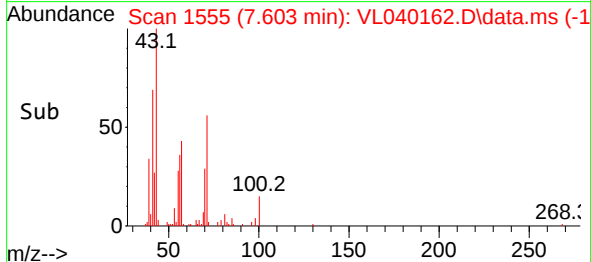
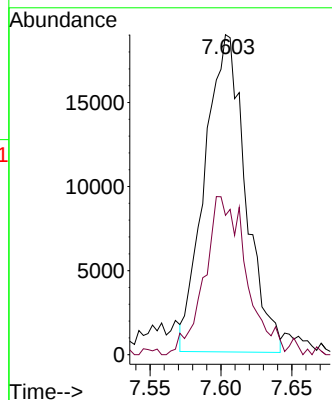
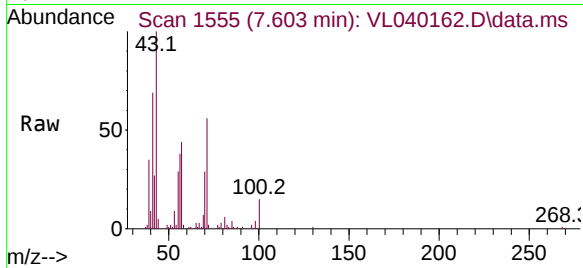




#10
Heptane
Concen: 0.358 ppbv
RT: 7.603 min Scan# 11
Delta R.T. 0.000 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

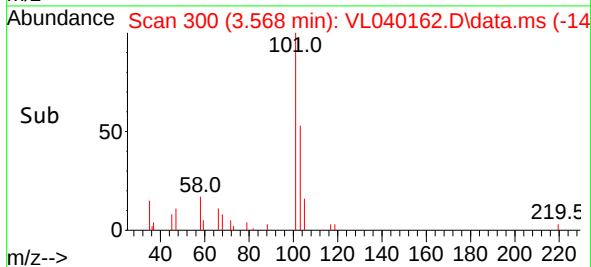
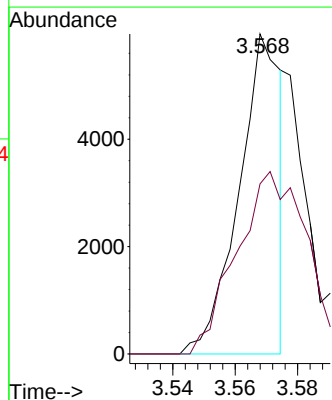
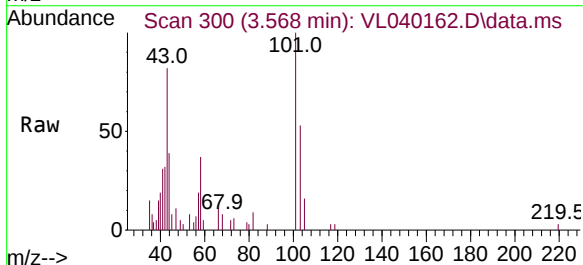
Instrument :
MSVOA_L
ClientSampleId :
SVP-01

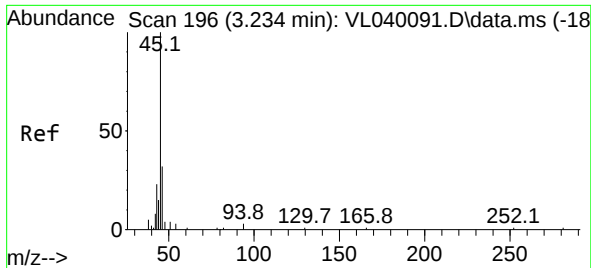
Tgt Ion: 43 Resp: 37877
Ion Ratio Lower Upper
43 100
57 53.6 40.9 61.3



#11
Trichlorofluoromethane
Concen: 0.034 ppbv
RT: 3.568 min Scan# 300
Delta R.T. -0.000 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

Tgt Ion: 101 Resp: 5539
Ion Ratio Lower Upper
101 100
103 53.2 54.0 81.0#

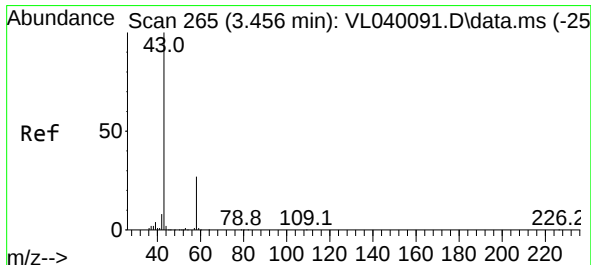
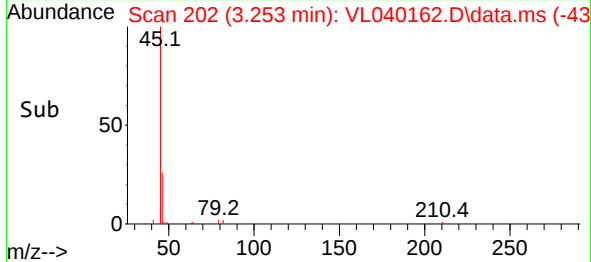
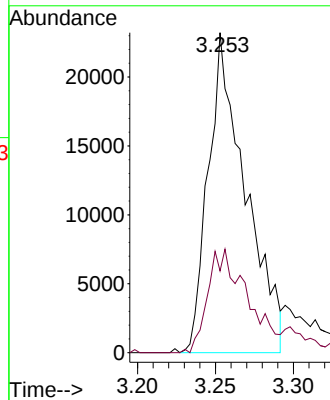
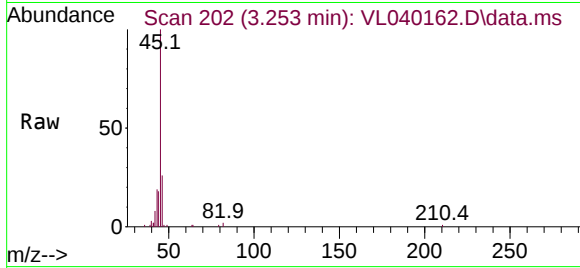




#13
Ethanol
Concen: 9.117 ppbv
RT: 3.253 min Scan# 20
Delta R.T. 0.010 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

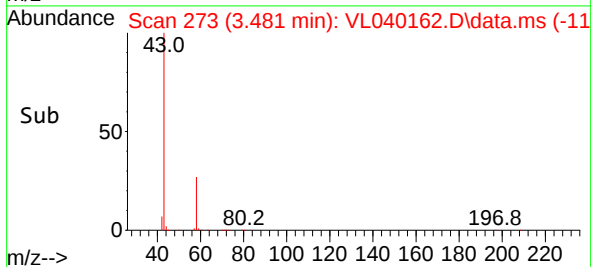
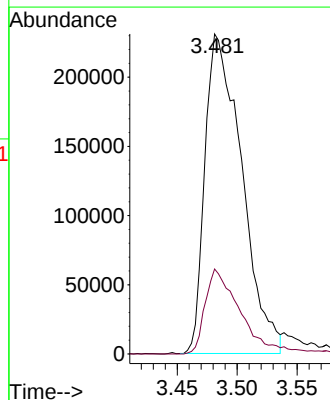
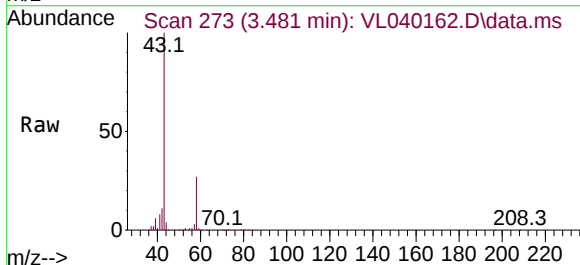
Instrument :
MSVOA_L
ClientSampleId :
SVP-01

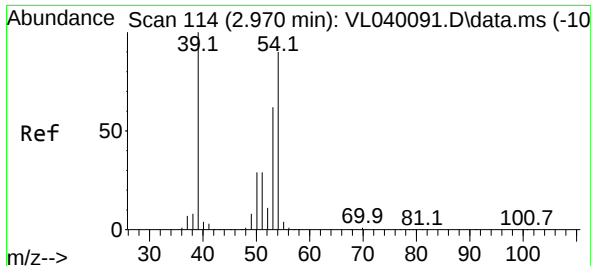
Tgt Ion: 45 Resp: 38488
Ion Ratio Lower Upper
45 100
46 42.0 14.8 59.2



#15
Acetone
Concen: 4.460 ppbv
RT: 3.481 min Scan# 273
Delta R.T. 0.010 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

Tgt Ion: 43 Resp: 492334
Ion Ratio Lower Upper
43 100
58 26.5 21.8 32.8

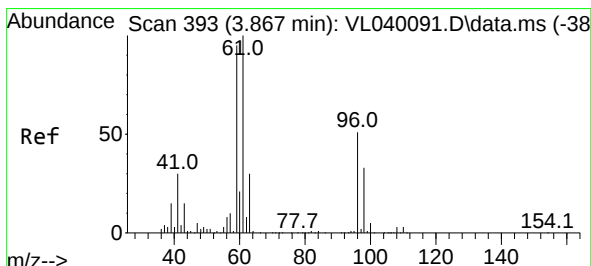
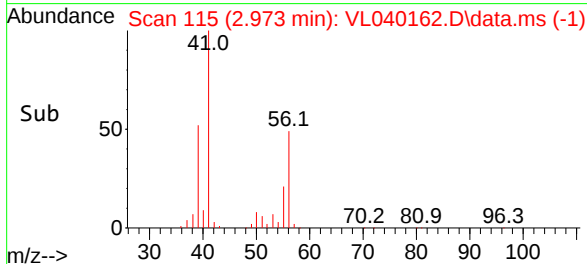
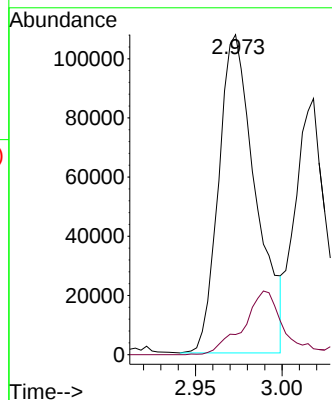
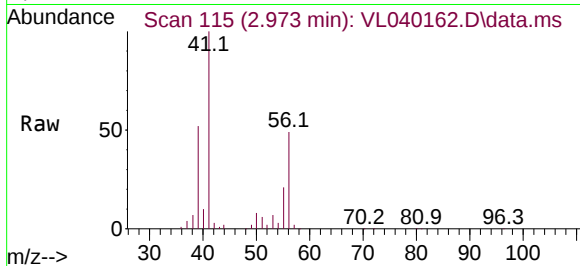




#16
1,3-Butadiene
Concen: 3.115 ppbv
RT: 2.973 min Scan# 114
Delta R.T. -0.013 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

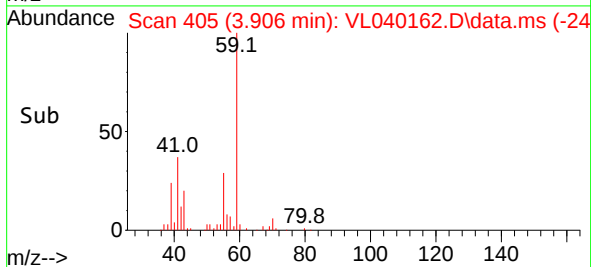
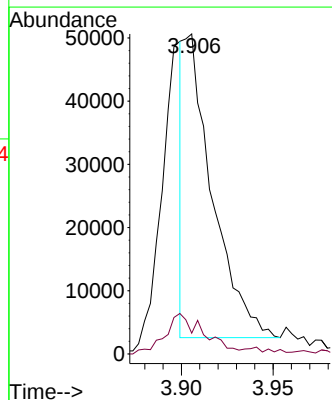
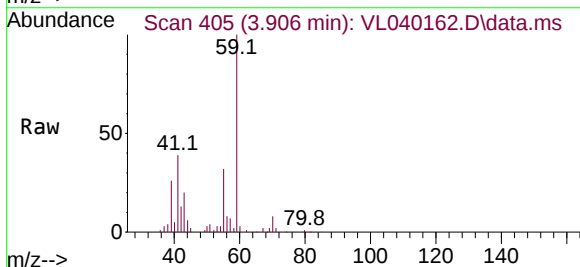
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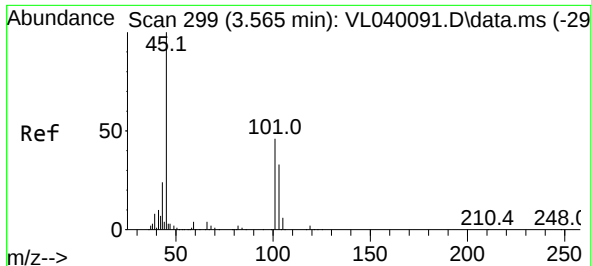
Tgt Ion: 39 Resp: 160304
Ion Ratio Lower Upper
39 100
54 22.5 67.9 101.9#



#17
tert-Butyl alcohol
Concen: 0.504 ppbv
RT: 3.906 min Scan# 405
Delta R.T. 0.022 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

Tgt Ion: 59 Resp: 51844
Ion Ratio Lower Upper
59 100
57 20.0 8.5 12.7#





#19

Isopropyl Alcohol

Concen: 0.219 ppbv

RT: 3.610 min Scan# 313

Delta R.T. 0.032 min

Lab File: VL040162.D

Acq: 13 Feb 2023 16:13

Instrument :

MSVOA_L

ClientSampleId :

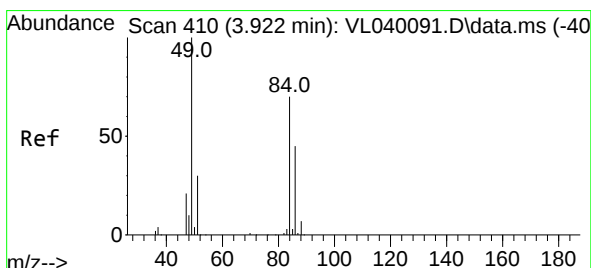
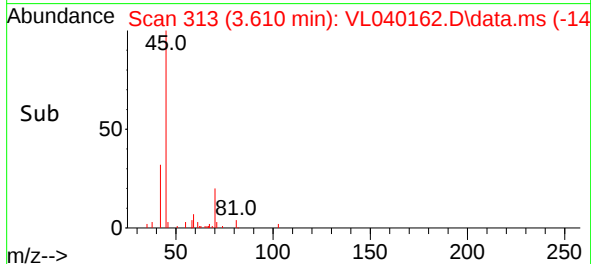
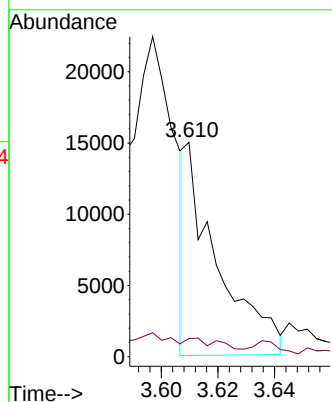
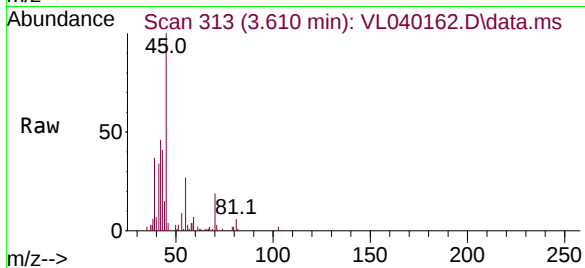
SVP-01

Tgt Ion: 45 Resp: 11828

Ion Ratio Lower Upper

45 100

58 0.0 2.6 4.0#



#20

Methylene Chloride

Concen: 1.506 ppbv

RT: 3.944 min Scan# 417

Delta R.T. 0.003 min

Lab File: VL040162.D

Acq: 13 Feb 2023 16:13

Tgt Ion: 84 Resp: 73351

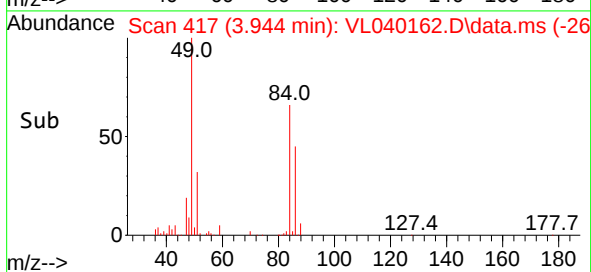
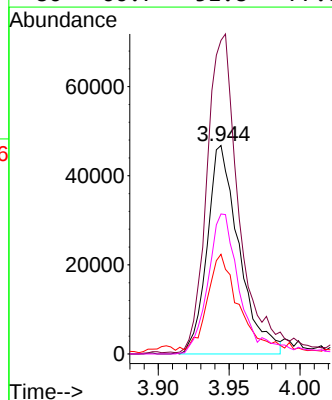
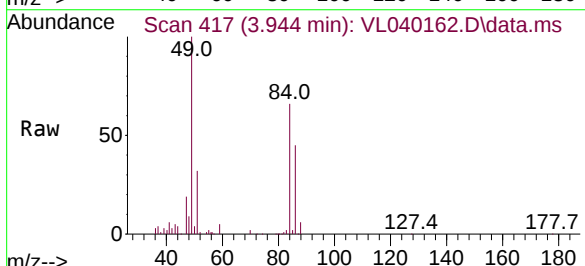
Ion Ratio Lower Upper

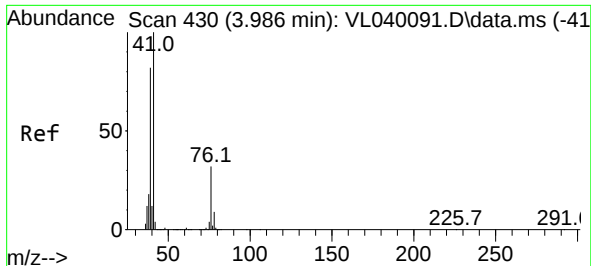
84 100

49 149.4 114.6 171.8

51 44.6 34.3 51.5

86 66.7 51.8 77.8





#21

Allyl Chloride

Concen: 0.033 ppbv

RT: 3.973 min Scan# 41

Delta R.T. -0.032 min

Lab File: VL040162.D

Acq: 13 Feb 2023 16:13

Instrument :

MSVOA_L

ClientSampleId :

SVP-01

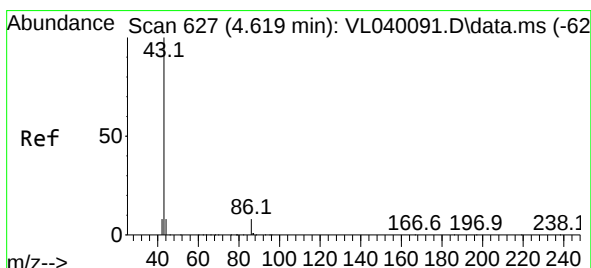
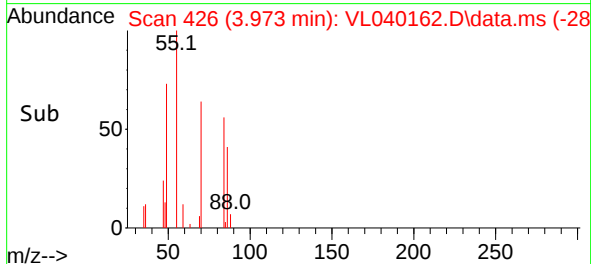
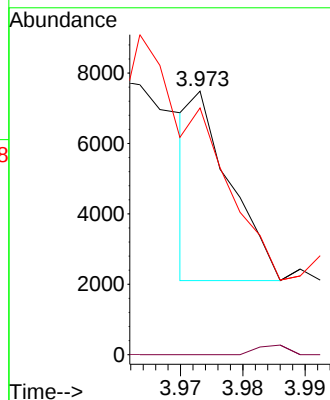
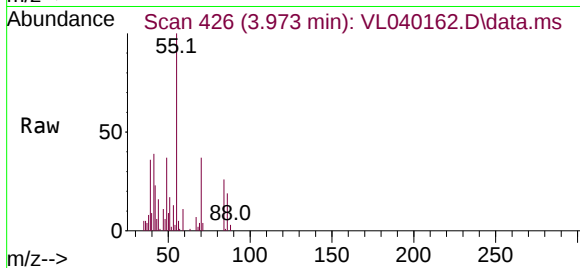
Tgt Ion: 41 Resp: 2346

Ion Ratio Lower Upper

41 100

76 0.0 25.9 38.9#

39 0.0 66.8 100.2#



#23

Vinyl Acetate

Concen: 0.314 ppbv

RT: 4.626 min Scan# 629

Delta R.T. -0.010 min

Lab File: VL040162.D

Acq: 13 Feb 2023 16:13

Tgt Ion: 43 Resp: 11245

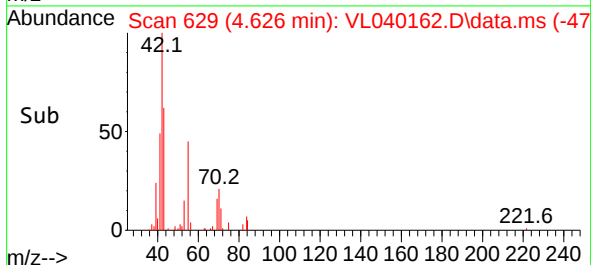
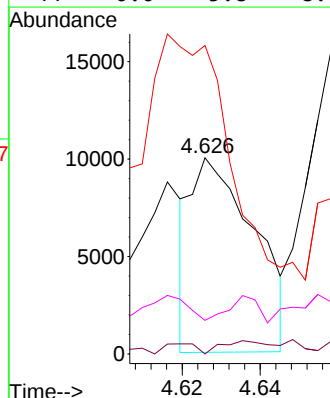
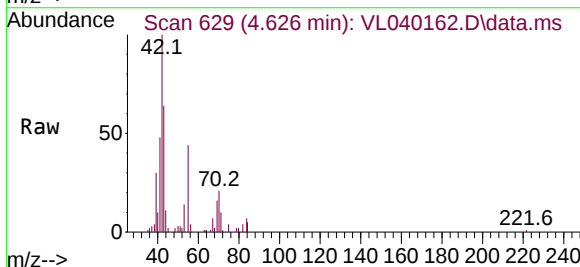
Ion Ratio Lower Upper

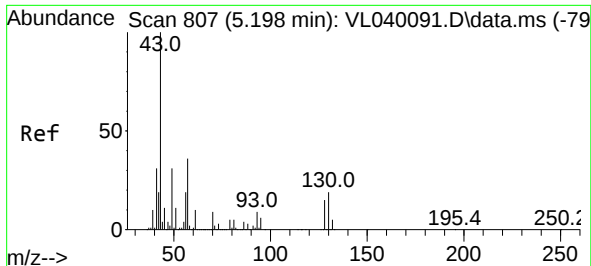
43 100

86 0.0 5.6 8.4#

42 187.4 7.7 11.5#

44 0.0 5.8 8.8#





#25

Ethyl Acetate

Concen: 0.375 ppbv

RT: 5.230 min Scan# 817

Delta R.T. 0.013 min

Lab File: VL040162.D

Acq: 13 Feb 2023 16:13

Instrument :

MSVOA_L

ClientSampleId :

SVP-01

Tgt Ion: 43 Resp: 72955

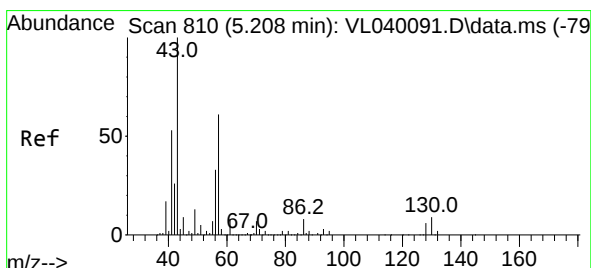
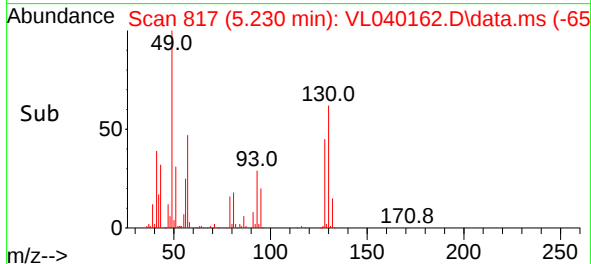
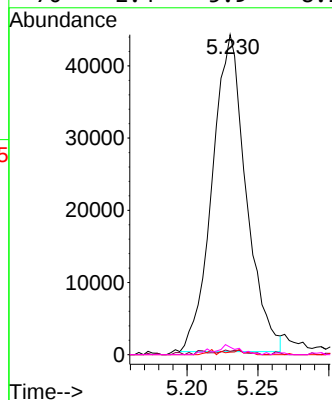
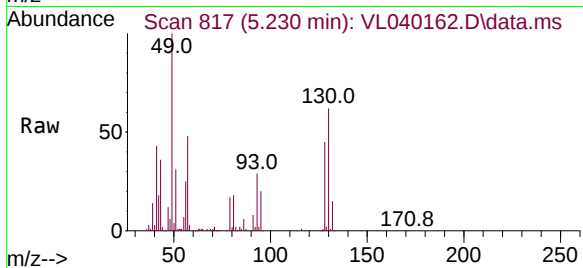
Ion Ratio Lower Upper

43 100

45 1.8 8.5 12.7#

61 1.1 8.4 12.6#

70 2.4 5.9 8.9#



#26

Hexane

Concen: 1.247 ppbv

RT: 5.230 min Scan# 817

Delta R.T. 0.003 min

Lab File: VL040162.D

Acq: 13 Feb 2023 16:13

Tgt Ion: 57 Resp: 106113

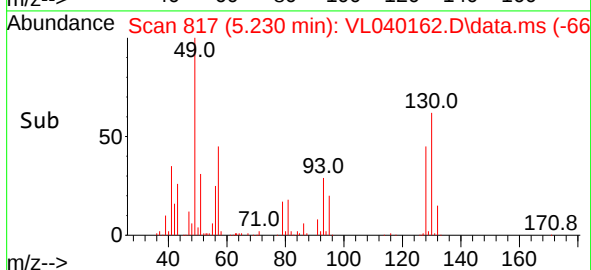
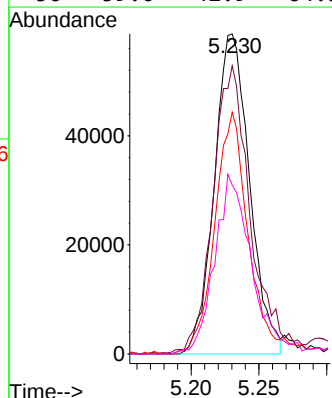
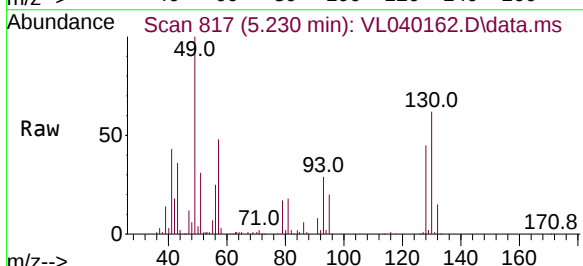
Ion Ratio Lower Upper

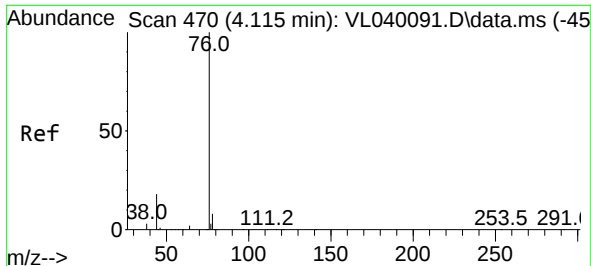
57 100

41 95.4 72.2 108.4

43 73.9 192.1 288.1#

56 59.0 42.9 64.3

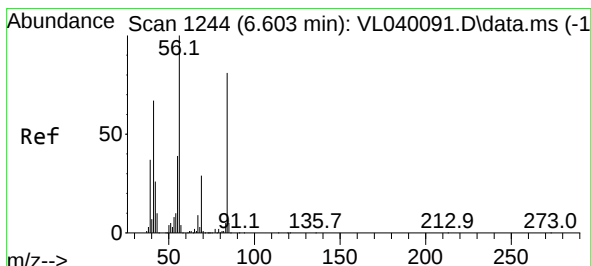
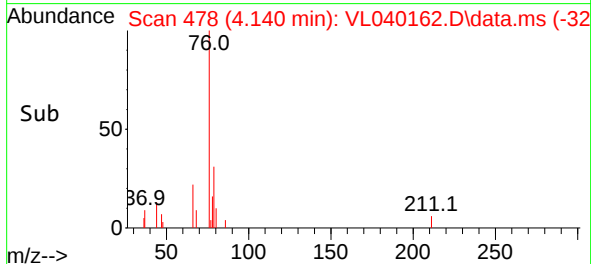
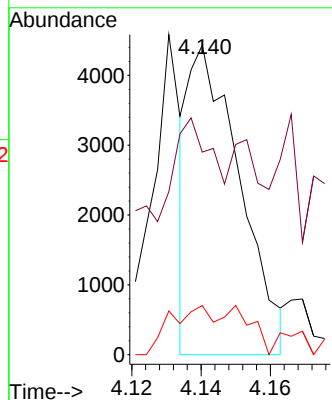
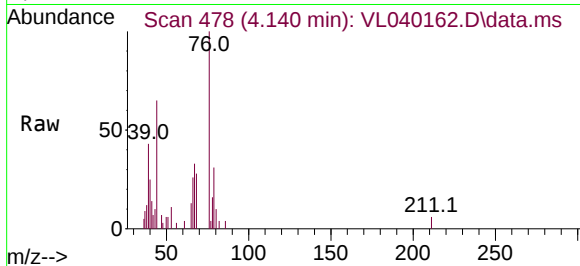




#27
Carbon Disulfide
Concen: 0.041 ppbv
RT: 4.140 min Scan# 41
Delta R.T. 0.006 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

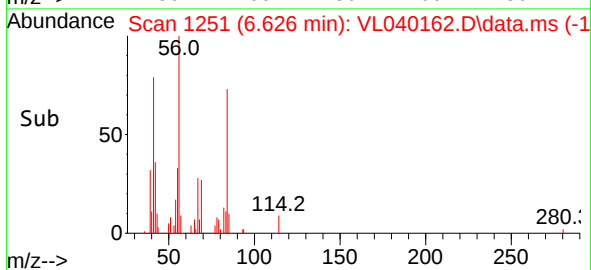
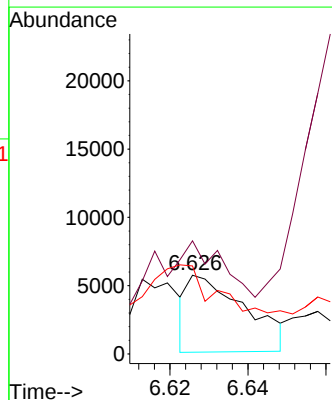
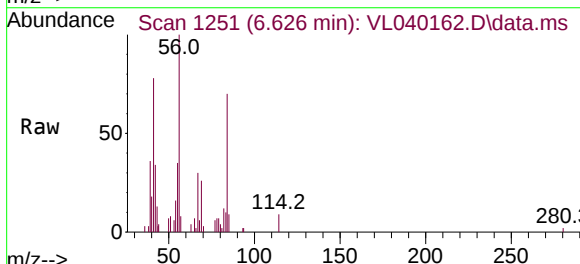
Instrument :
MSVOA_L
ClientSampleId :
SVP-01

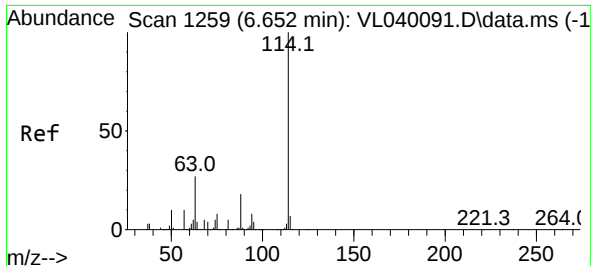
Tgt Ion: 76 Resp: 4571
Ion Ratio Lower Upper
76 100
44 0.0 14.9 22.3#
78 26.8 8.2 12.2#



#30
Cyclohexane
Concen: 0.085 ppbv
RT: 6.626 min Scan# 1251
Delta R.T. 0.006 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

Tgt Ion: 84 Resp: 5775
Ion Ratio Lower Upper
84 100
56 0.0 111.5 167.3#
41 175.4 71.4 107.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.674 min Scan# 1

Delta R.T. 0.003 min

Lab File: VL040162.D

Acq: 13 Feb 2023 16:13

Instrument :

MSVOA_L

ClientSampleId :

SVP-01

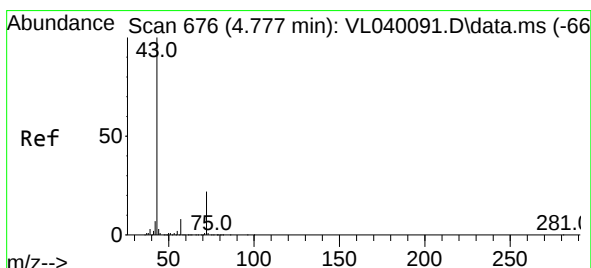
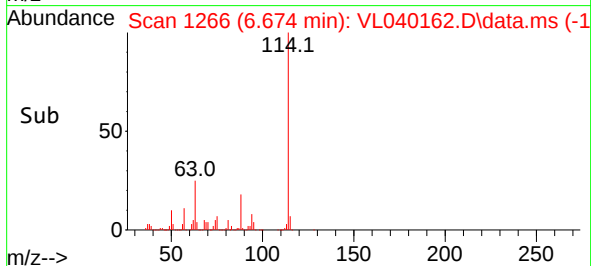
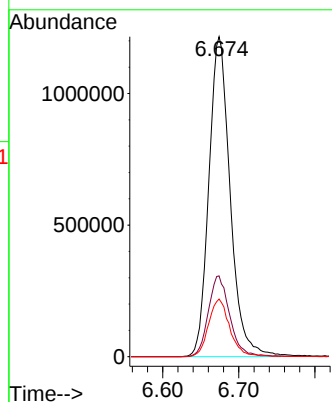
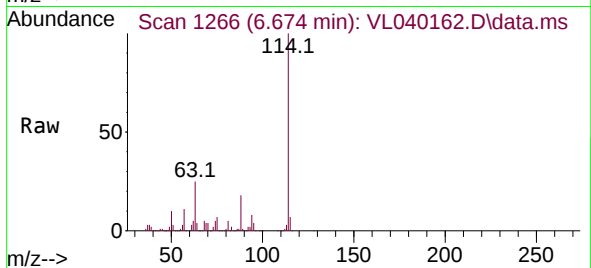
Tgt Ion:114 Resp: 2365451

Ion Ratio Lower Upper

114 100

63 25.7 21.8 32.8

88 18.1 14.8 22.2



#34

2-Butanone

Concen: 0.361 ppbv

RT: 4.809 min Scan# 686

Delta R.T. 0.013 min

Lab File: VL040162.D

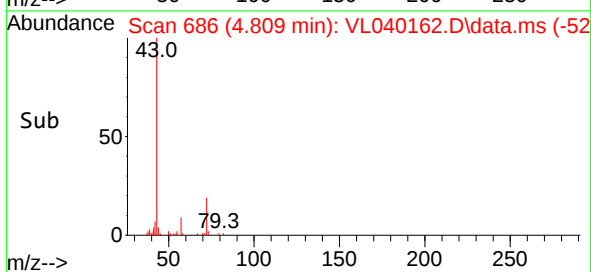
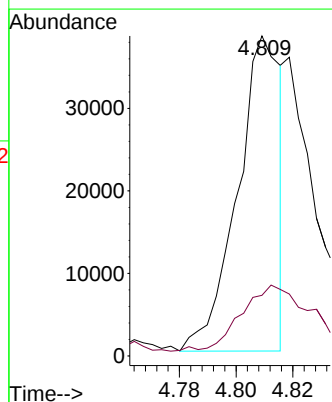
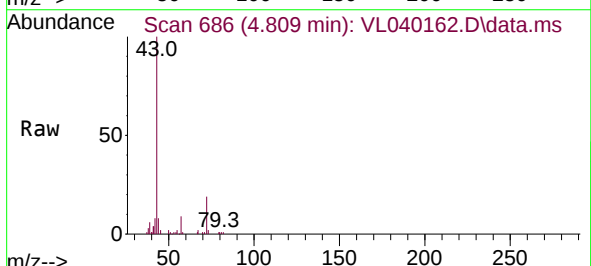
Acq: 13 Feb 2023 16:13

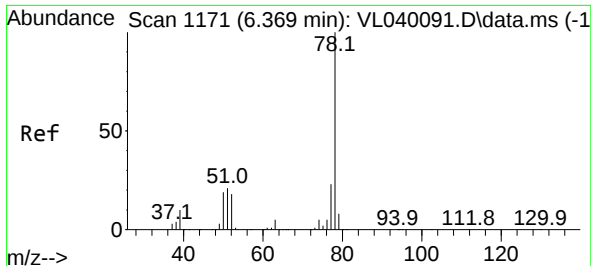
Tgt Ion: 43 Resp: 40383

Ion Ratio Lower Upper

43 100

72 47.2 18.4 27.6#

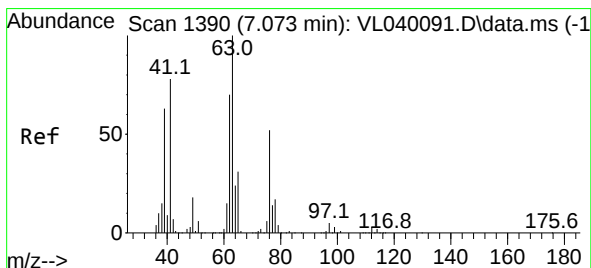
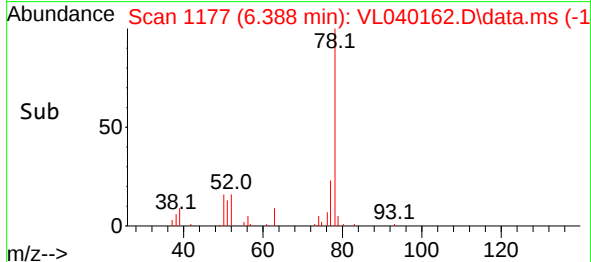
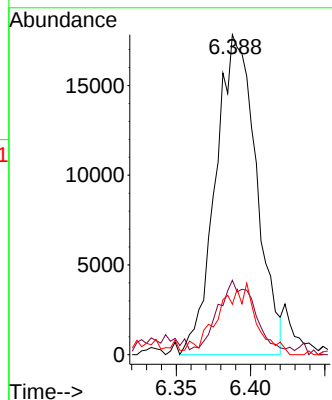
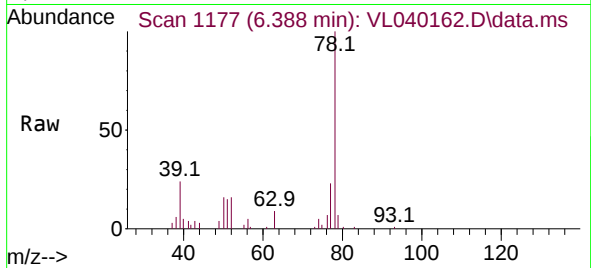




#36
Benzene
Concen: 0.194 ppbv
RT: 6.388 min Scan# 1177
Delta R.T. -0.003 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

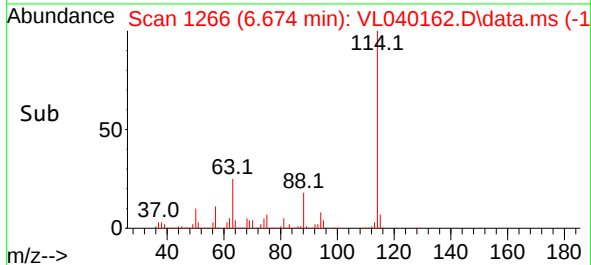
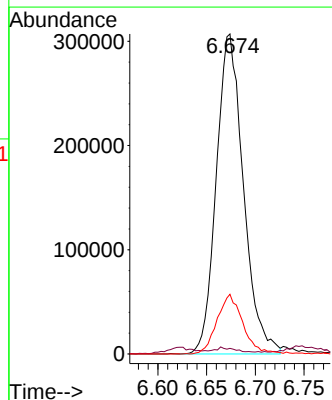
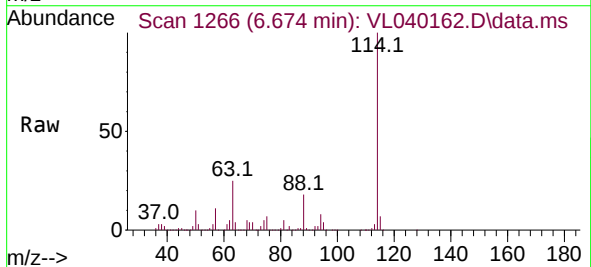
Instrument :
MSVOA_1
ClientSampleId :
SVP-01

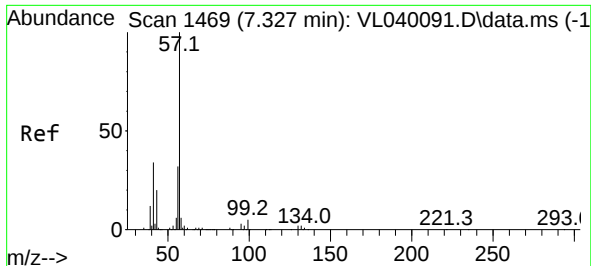
Tgt Ion: 78 Resp: 33916
Ion Ratio Lower Upper
78 100
77 21.1 18.1 27.1
50 14.4 15.6 23.4#



#39
1,2-Dichloropropane
Concen: 8.680 ppbv
RT: 6.674 min Scan# 1266
Delta R.T. -0.421 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

Tgt Ion: 63 Resp: 594353
Ion Ratio Lower Upper
63 100
41 0.7 62.2 93.4#
62 18.7 55.8 83.8#





#44

2,2,4-Trimethylpentane

Concen: 0.185 ppbv

RT: 7.349 min Scan# 1476

Delta R.T. -0.000 min

Lab File: VL040162.D

Acq: 13 Feb 2023 16:13

Instrument :

MSVOA_L

ClientSampleId :

SVP-01

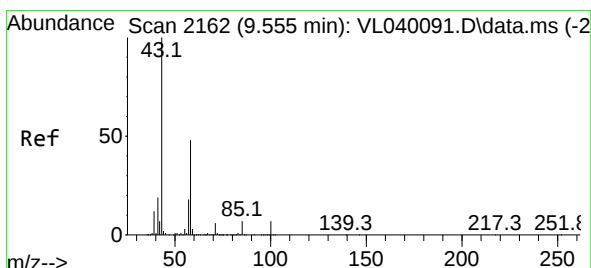
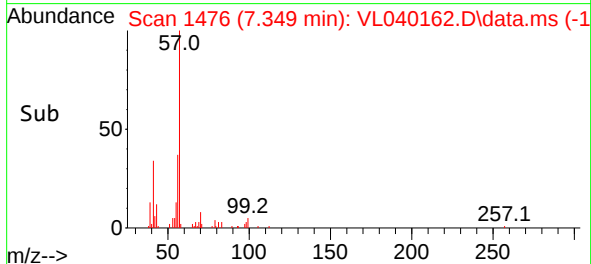
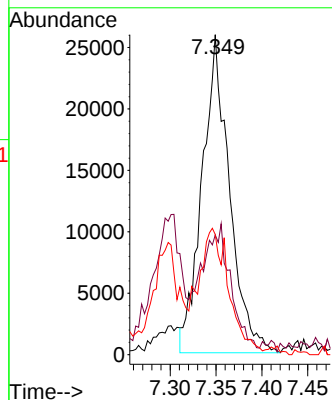
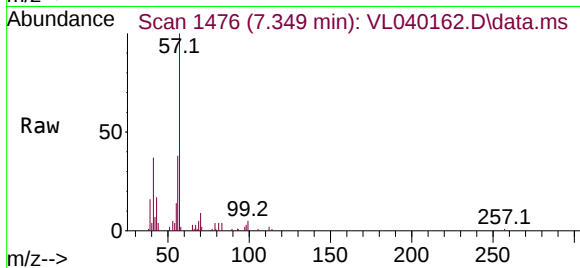
Tgt Ion: 57 Resp: 53735

Ion Ratio Lower Upper

57 100

41 41.9 27.1 40.7#

56 46.6 25.0 37.4#



#51

2-Hexanone

Concen: 0.071 ppbv

RT: 9.593 min Scan# 2174

Delta R.T. 0.019 min

Lab File: VL040162.D

Acq: 13 Feb 2023 16:13

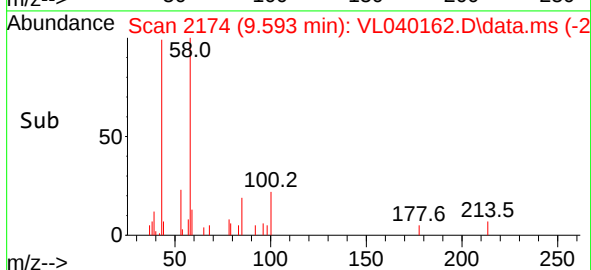
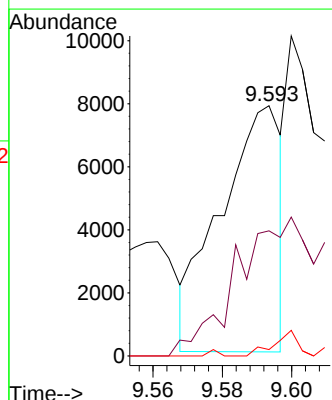
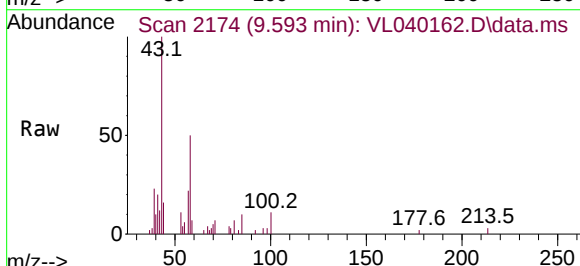
Tgt Ion: 43 Resp: 9524

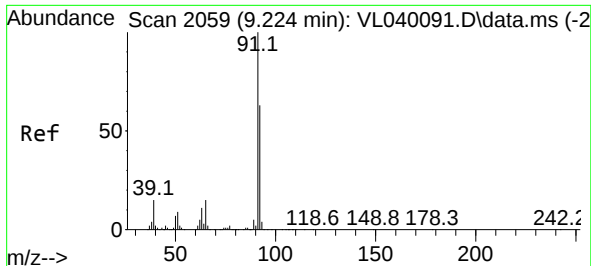
Ion Ratio Lower Upper

43 100

58 0.0 37.5 56.3#

98 0.0 0.4 0.6#

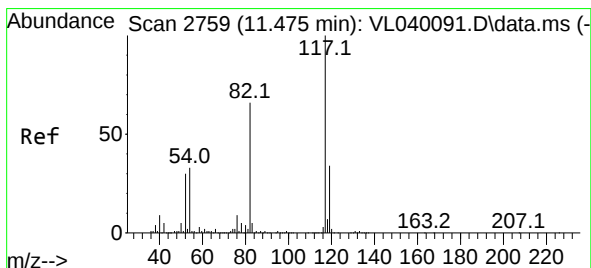
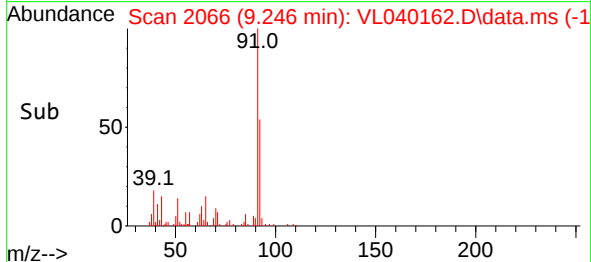
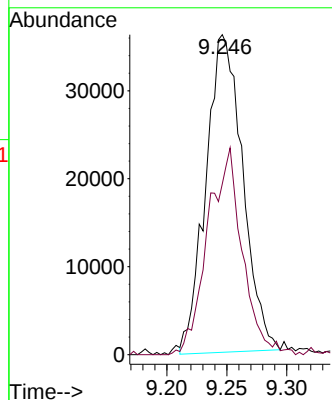
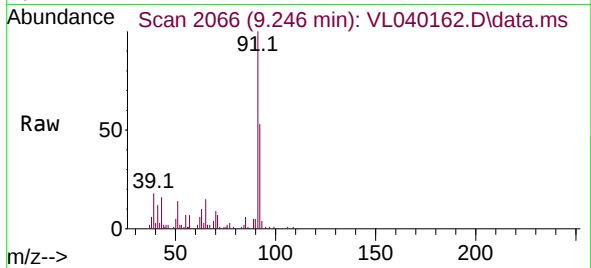




#53
Toluene
Concen: 0.413 ppbv
RT: 9.246 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

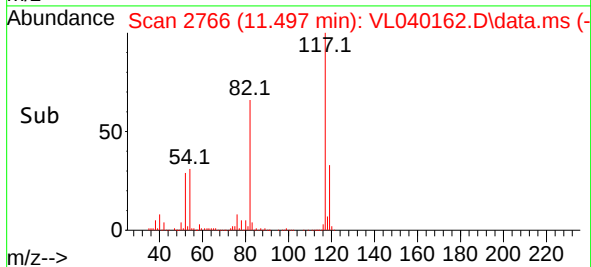
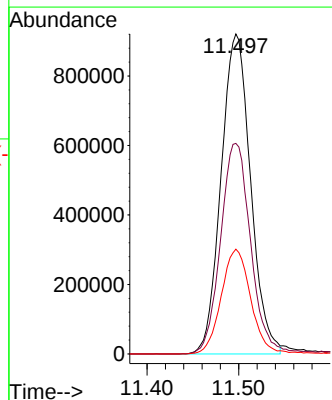
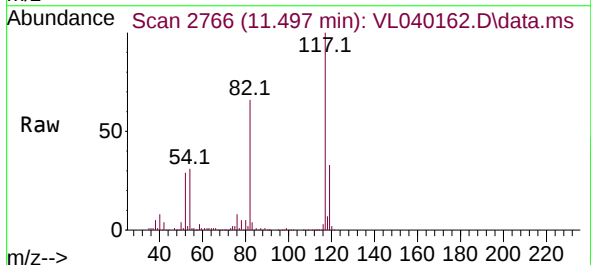
Instrument :
MSVOA_L
ClientSampleId :
SVP-01

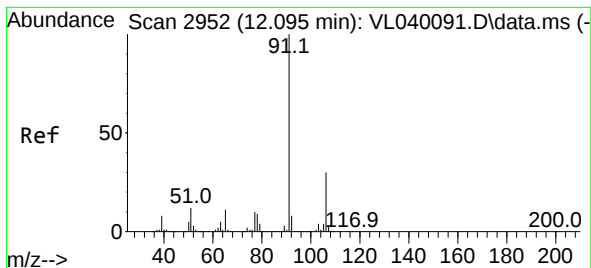
Tgt Ion: 91 Resp: 77110
Ion Ratio Lower Upper
91 100
92 61.2 48.3 72.5



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.497 min Scan# 2766
Delta R.T. 0.000 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

Tgt Ion: 117 Resp: 2055814
Ion Ratio Lower Upper
117 100
82 67.5 54.4 81.6
119 33.4 26.8 40.2

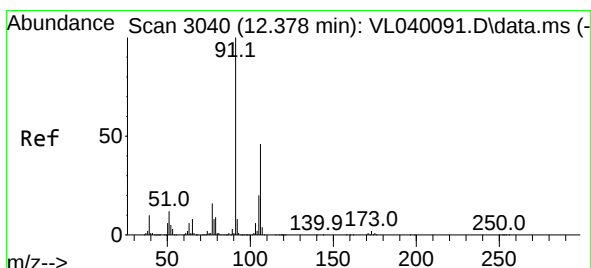
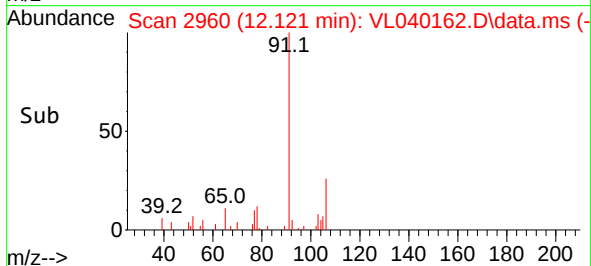
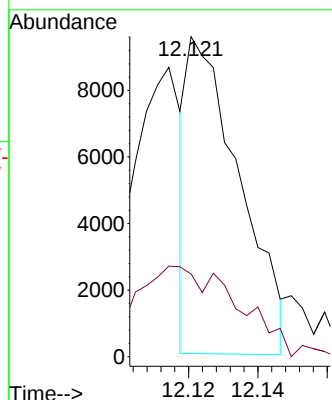
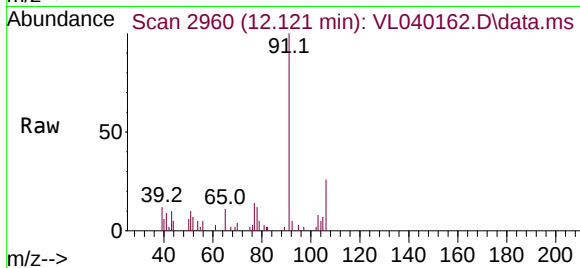




#58
Ethyl Benzene
Concen: 0.043 ppbv
RT: 12.121 min Scan# 2952
Delta R.T. 0.003 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

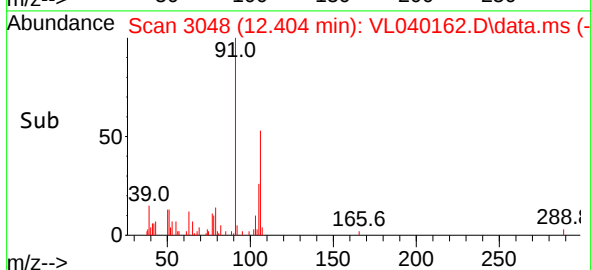
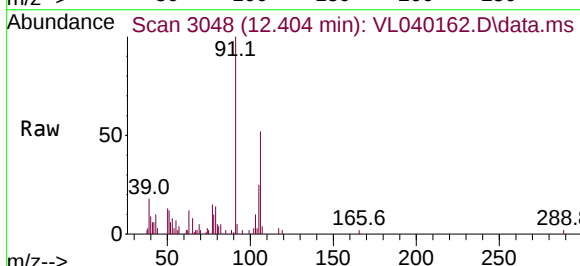
Instrument :
MSVOA_L
ClientSampleId :
SVP-01

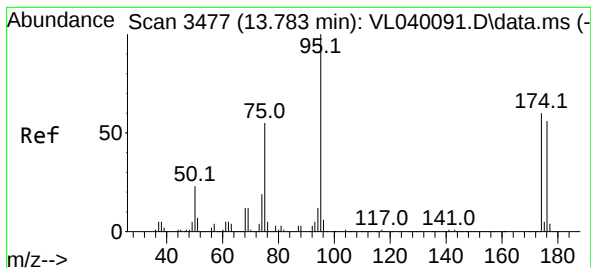
Tgt Ion: 91 Resp: 9966
Ion Ratio Lower Upper
91 100
106 20.8 23.7 35.5#



#59
m/p-Xylene
Concen: 0.053 ppbv
RT: 12.404 min Scan# 3048
Delta R.T. 0.000 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

Tgt Ion: 91 Resp: 11014
Ion Ratio Lower Upper
91 100
106 0.0 34.2 51.4#

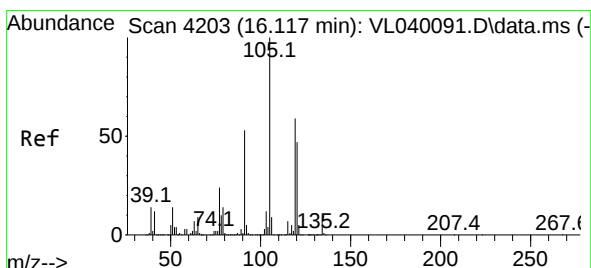
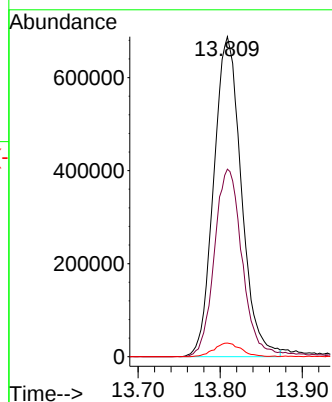
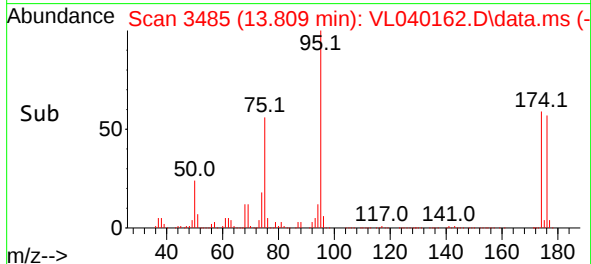
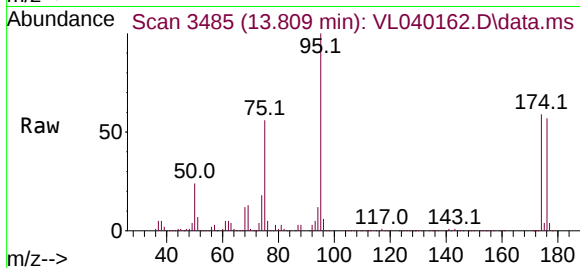




#68
1-Bromo-4-Fluorobenzene
Concen: 9.436 ppbv
RT: 13.809 min Scan# 3477
Delta R.T. 0.003 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

Instrument :
MSVOA_1
ClientSampleId :
SVP-01

Tgt Ion: 95 Resp: 1612240
Ion Ratio Lower Upper
95 100
174 60.9 47.7 71.5
175 4.3 3.4 5.2



#74
1,2,4-Trimethylbenzene
Concen: 0.060 ppbv
RT: 16.140 min Scan# 4210
Delta R.T. 0.000 min
Lab File: VL040162.D
Acq: 13 Feb 2023 16:13

Tgt Ion: 105 Resp: 12900
Ion Ratio Lower Upper
105 100
120 27.9 38.0 57.0#
91 6.9 42.1 63.1#
77 14.6 19.3 28.9#

