

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101022\
 Data File : VL039701.D
 Acq On : 10 Oct 2022 18:56
 Operator : SY/AP
 Sample : N5040-03 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-02

Quant Time: Oct 11 07:20:04 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Sep 19 14:26:28 2022
 Response via : Initial Calibration

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

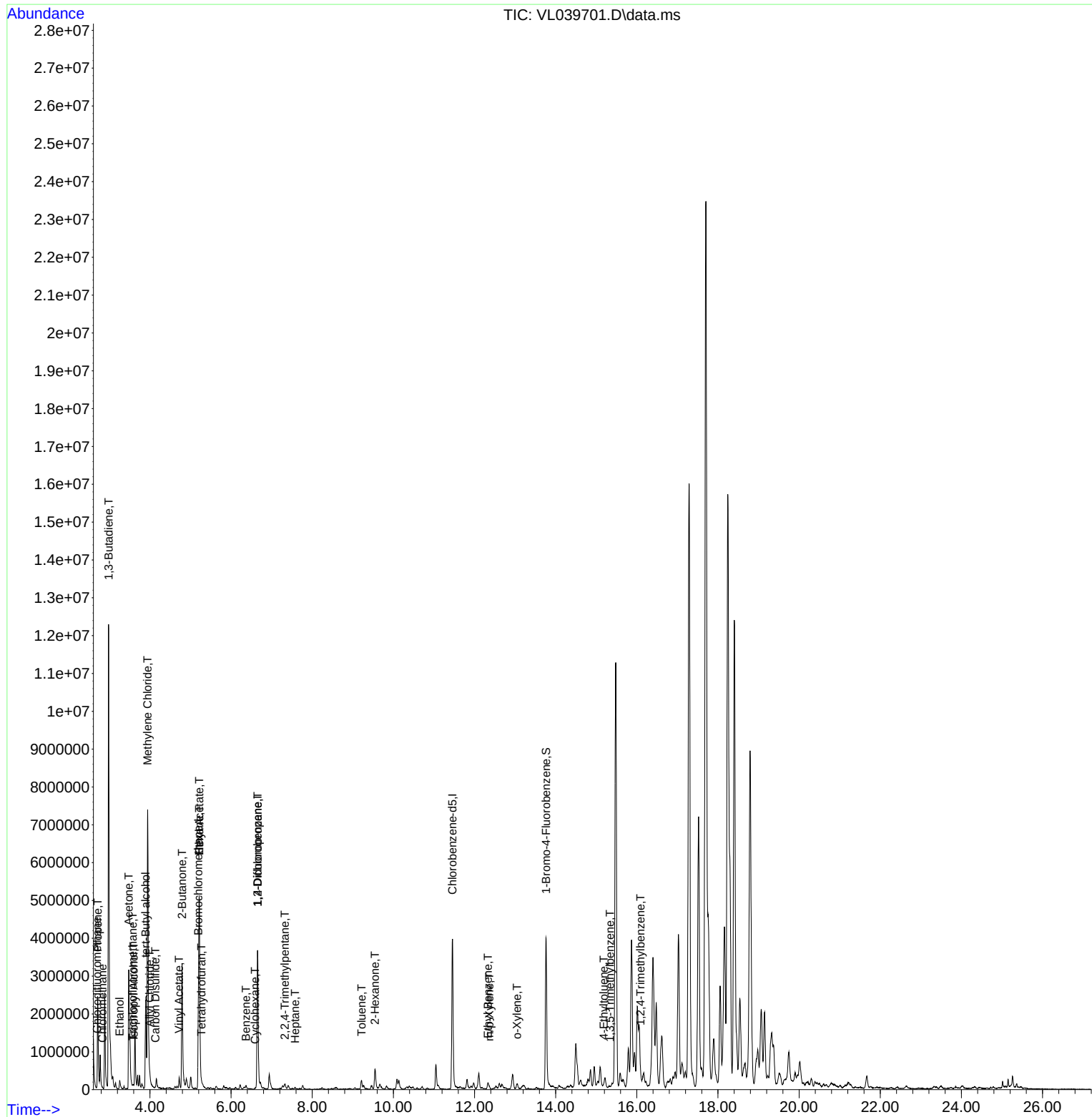
Internal Standards						
1) Bromochloromethane	5.195	49	1169668	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.655	114	2954046	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2672003	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	2015641	10.105	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.100%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.697	51	22299	0.161	ppbv #	85
4) Chloromethane	2.832	50	12041	0.144	ppbv	96
9) Propene	2.713	41	1123249	17.718	ppbv	96
10) Heptane	7.578	43	16059	0.109	ppbv #	82
11) Trichlorofluoromethane	3.575	101	9837	0.059	ppbv	94
13) Ethanol	3.253	45	240579	49.806	ppbv	73
15) Acetone	3.478	43	3464321	26.617	ppbv #	43
16) 1,3-Butadiene	2.980	39	4086475	61.891	ppbv #	16
17) tert-Butyl alcohol	3.893	59	2092009	17.911	ppbv	99
19) Isopropyl Alcohol	3.597	45	56924	0.858	ppbv #	88
20) Methylene Chloride	3.944	84	2683146	44.588	ppbv	95
21) Allyl Chloride	3.996	41	9533	0.108	ppbv #	1
23) Vinyl Acetate	4.719	43	86761	1.475	ppbv #	2
25) Ethyl Acetate	5.218	43	1417860	4.996	ppbv #	75
26) Hexane	5.218	57	1964542	16.312	ppbv #	39
27) Carbon Disulfide	4.134	76	12265	0.097	ppbv #	48
30) Cyclohexane	6.591	84	3262	0.035	ppbv #	1
34) 2-Butanone	4.793	43	4270632	29.433	ppbv	96
36) Benzene	6.365	78	50096	0.222	ppbv	93
39) 1,2-Dichloropropane	6.652	63	731892	8.392	ppbv #	26
41) Tetrahydrofuran	5.272	42	11540	0.130	ppbv #	39
44) 2,2,4-Trimethylpentane	7.327	57	48858	0.126	ppbv #	1
51) 2-Hexanone	9.549	43	506612	3.002	ppbv	97
53) Toluene	9.217	91	175875	0.700	ppbv	94
58) Ethyl Benzene	12.330	91	130478	0.424	ppbv	94
59) m/p-Xylene	12.362	91	27326	0.100	ppbv #	32
60) o-Xylene	13.050	91	55824	0.213	ppbv #	59
72) 4-Ethyltoluene	15.182	105	27430	0.092	ppbv #	90
73) 1,3,5-Trimethylbenzene	15.339	105	18341	0.067	ppbv #	83
74) 1,2,4-Trimethylbenzene	16.092	105	60523	0.197	ppbv #	68

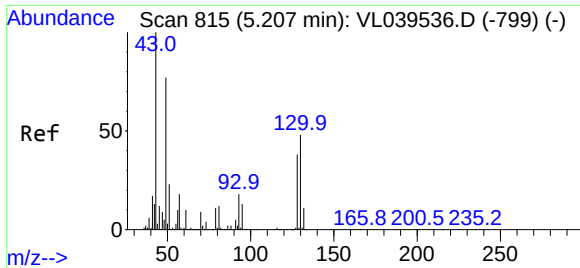
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101022\
Data File : VL039701.D
Acq On : 10 Oct 2022 18:56
Operator : SY/AP
Sample : N5040-03 2X
Misc : 400mL/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SVP-02

Quant Time: Oct 11 07:20:04 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091922AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Mon Sep 19 14:26:28 2022
Response via : Initial Calibration



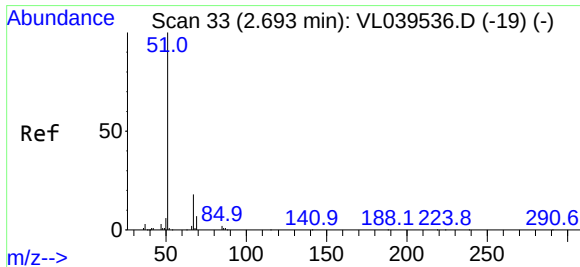
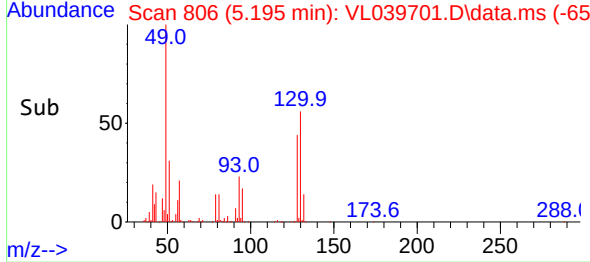
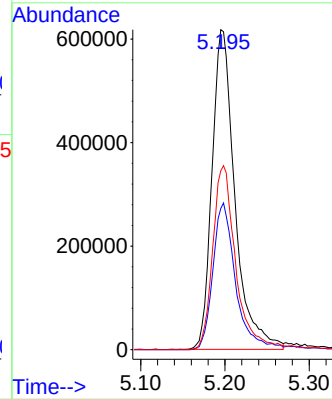
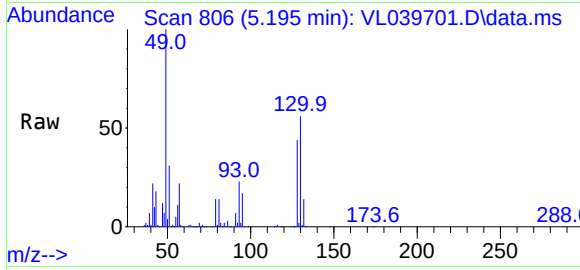


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.195 min Scan# 80
 Delta R.T. -0.012 min
 Lab File: VL039701.D
 Acq: 10 Oct 2022 18:56

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-02

Tgt Ion: 49 Resp: 1169668

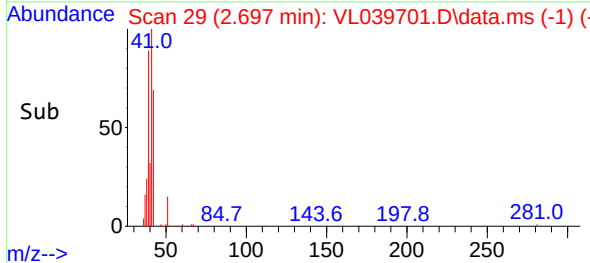
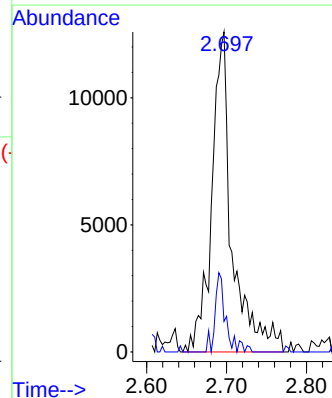
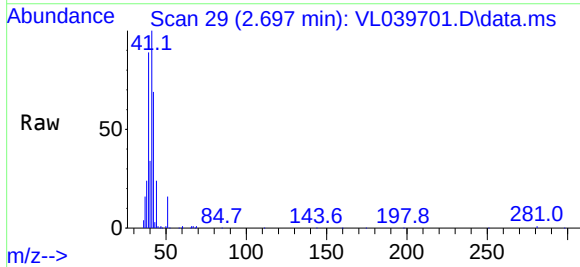
Ion	Ratio	Lower	Upper
49	100		
128	46.8	26.7	80.0
130	59.0	34.3	102.8

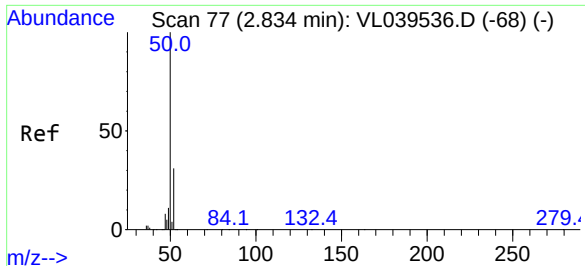


#3
 Chlorodifluoromethane
 Concen: 0.161 ppbv
 RT: 2.697 min Scan# 29
 Delta R.T. 0.004 min
 Lab File: VL039701.D
 Acq: 10 Oct 2022 18:56

Tgt Ion: 51 Resp: 22299

Ion	Ratio	Lower	Upper
51	100		
67	12.6	15.7	23.5

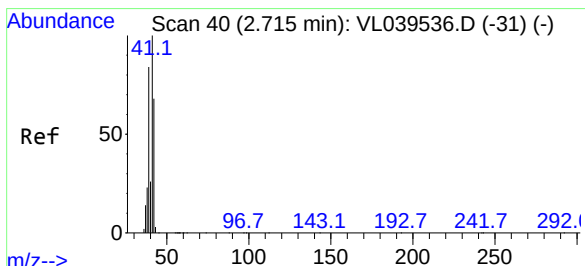
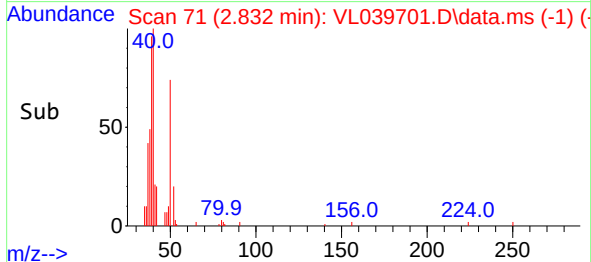
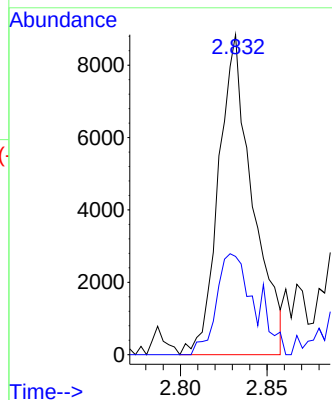
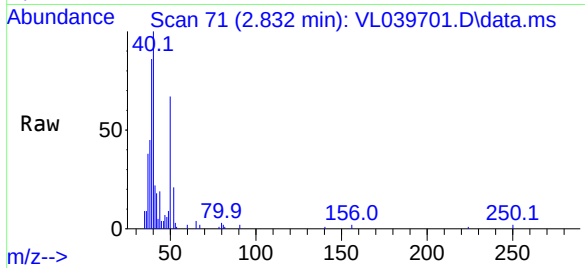




#4
Chloromethane
Concen: 0.144 ppbv
RT: 2.832 min Scan# 71
Delta R.T. -0.002 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

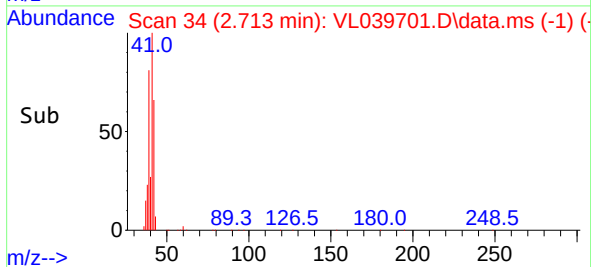
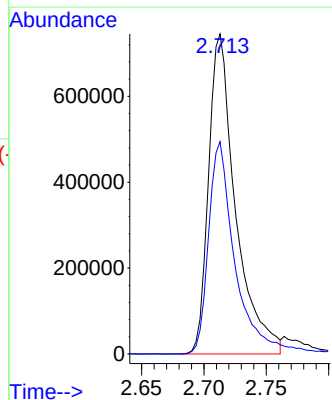
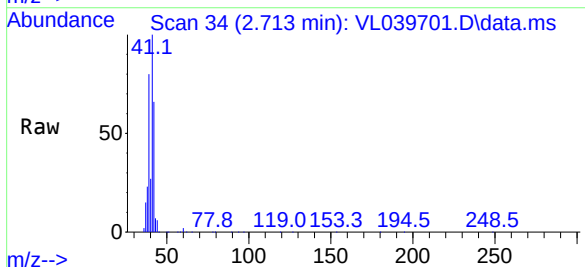
Instrument :
MSVOA_L
ClientSampleId :
SVP-02

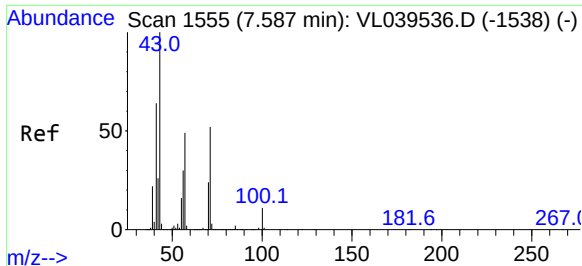
Tgt Ion: 50 Resp: 12041
Ion Ratio Lower Upper
50 100
52 30.7 26.5 39.7



#9
Propene
Concen: 17.718 ppbv
RT: 2.713 min Scan# 34
Delta R.T. -0.002 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

Tgt Ion: 41 Resp: 1123249
Ion Ratio Lower Upper
41 100
42 66.1 55.2 82.8





#10

Heptane

Concen: 0.109 ppbv

RT: 7.578 min Scan# 11

Delta R.T. -0.009 min

Lab File: VL039701.D

Acq: 10 Oct 2022 18:56

Instrument :

MSVOA_L

ClientSampleId :

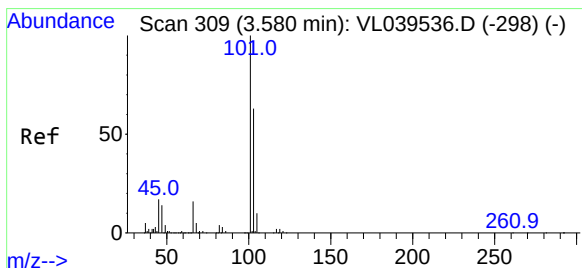
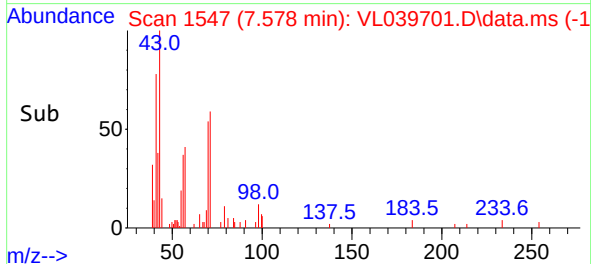
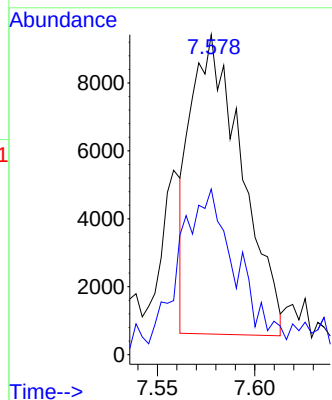
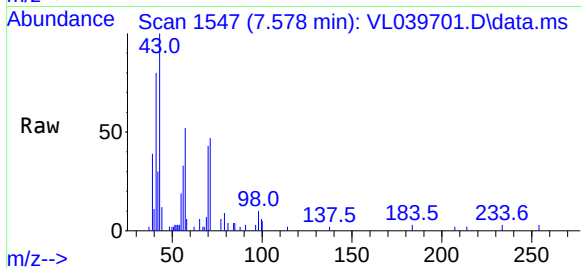
SVP-02

Tgt Ion: 43 Resp: 16059

Ion Ratio Lower Upper

43 100

57 63.3 40.5 60.7#



#11

Trichlorofluoromethane

Concen: 0.059 ppbv

RT: 3.575 min Scan# 302

Delta R.T. -0.006 min

Lab File: VL039701.D

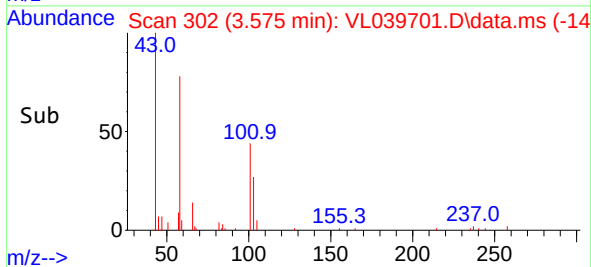
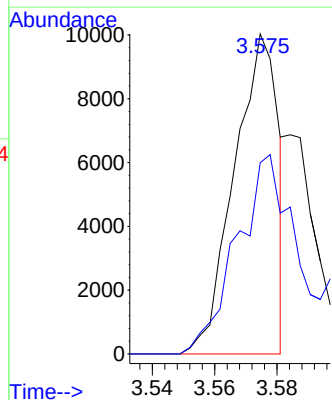
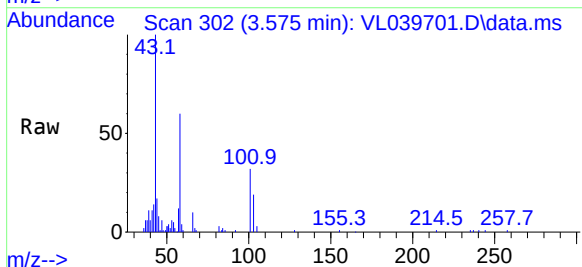
Acq: 10 Oct 2022 18:56

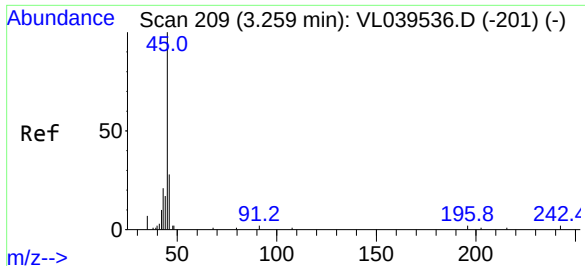
Tgt Ion:101 Resp: 9837

Ion Ratio Lower Upper

101 100

103 59.8 51.8 77.8

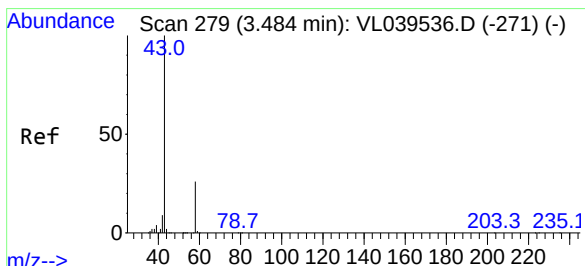
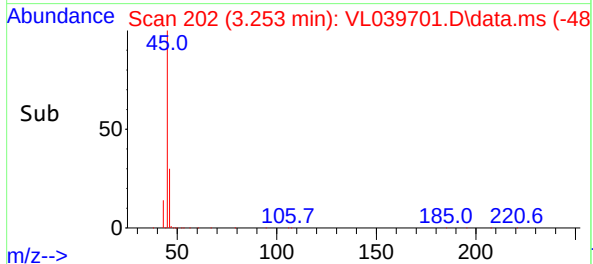
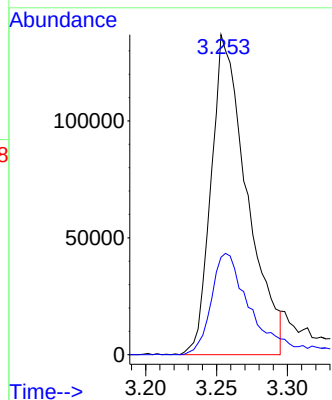
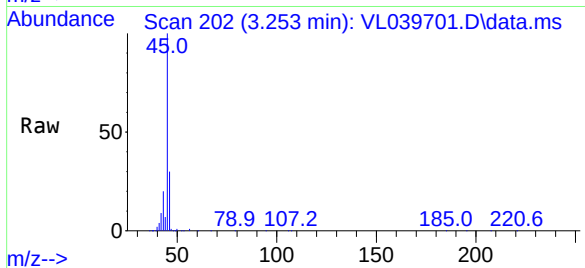




#13
Ethanol
Concen: 49.806 ppbv
RT: 3.253 min Scan# 20
Delta R.T. -0.006 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

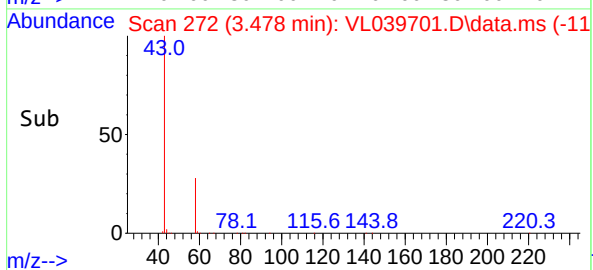
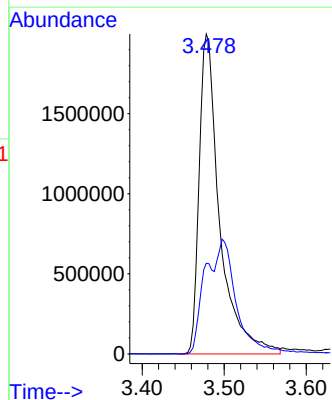
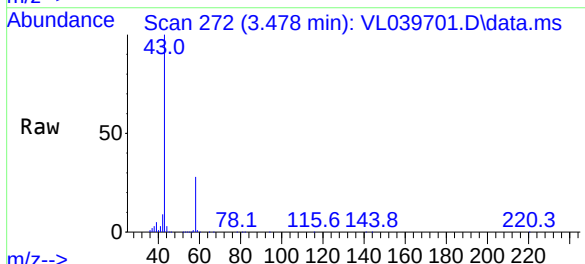
Instrument :
MSVOA_L
ClientSampleId :
SVP-02

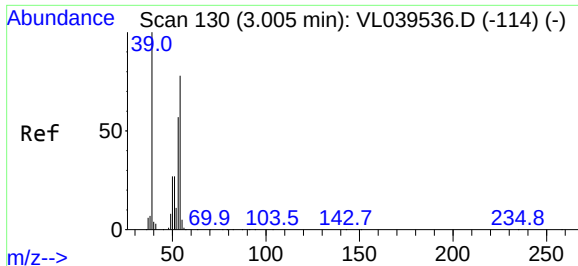
Tgt Ion: 45 Resp: 240579
Ion Ratio Lower Upper
45 100
46 37.4 22.8 91.2



#15
Acetone
Concen: 26.617 ppbv
RT: 3.478 min Scan# 272
Delta R.T. -0.006 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

Tgt Ion: 43 Resp: 3464321
Ion Ratio Lower Upper
43 100
58 55.6 21.0 31.6#

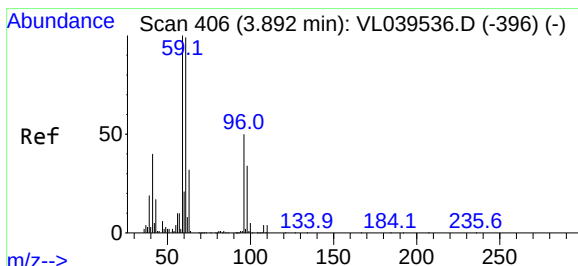
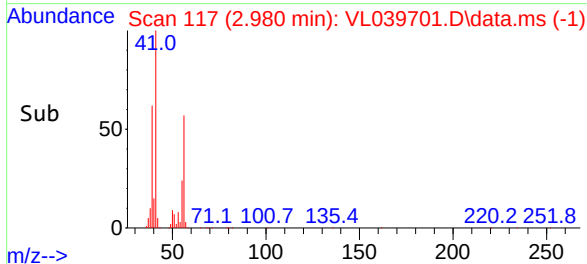
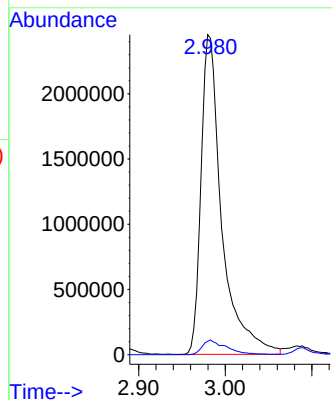
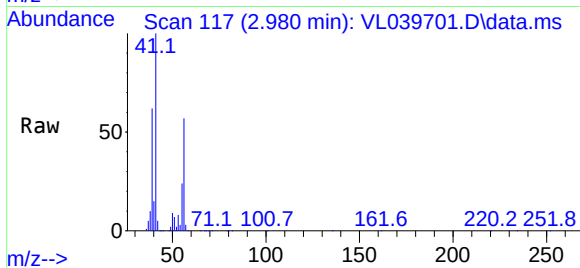




#16
1,3-Butadiene
Concen: 61.891 ppbv
RT: 2.980 min Scan# 117
Delta R.T. -0.025 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

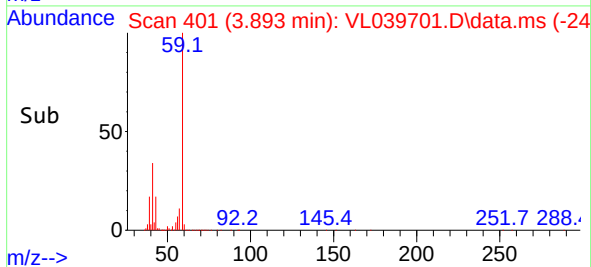
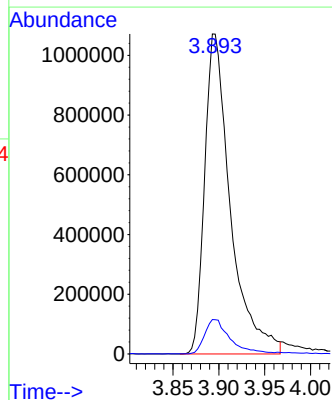
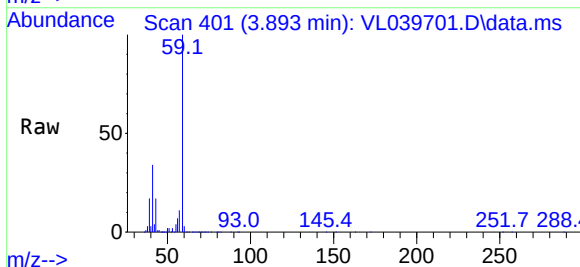
Instrument :
MSVOA_L
ClientSampleId :
SVP-02

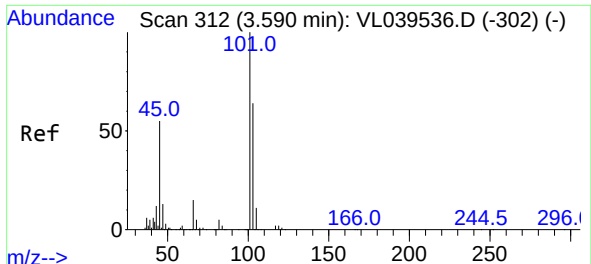
Tgt Ion: 39 Resp: 4086475
Ion Ratio Lower Upper
39 100
54 5.3 63.7 95.5#



#17
tert-Butyl alcohol
Concen: 17.911 ppbv
RT: 3.893 min Scan# 401
Delta R.T. 0.001 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

Tgt Ion: 59 Resp: 2092009
Ion Ratio Lower Upper
59 100
57 11.2 8.7 13.1





#19

Isopropyl Alcohol

Concen: 0.858 ppbv

RT: 3.597 min Scan# 309

Delta R.T. 0.007 min

Lab File: VL039701.D

Acq: 10 Oct 2022 18:56

Instrument :

MSVOA_1

ClientSampleId :

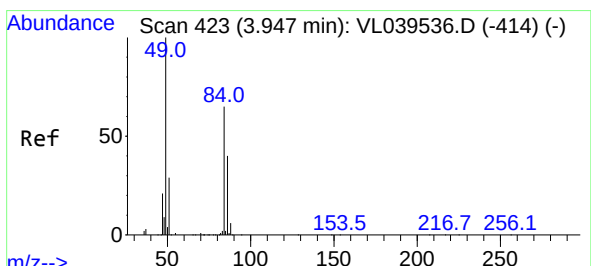
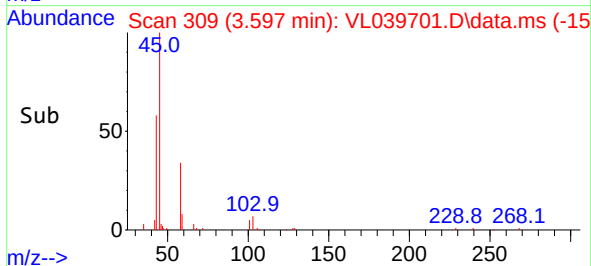
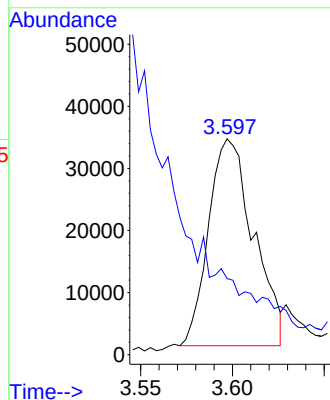
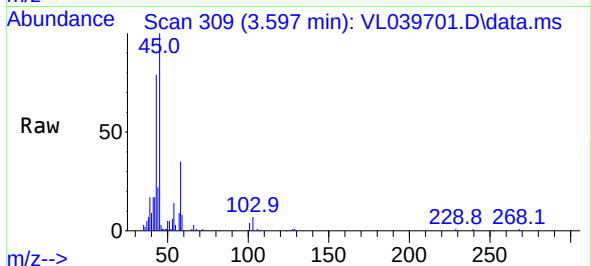
SVP-02

Tgt Ion: 45 Resp: 56924

Ion Ratio Lower Upper

45 100

58 0.0 3.2 4.8#



#20

Methylene Chloride

Concen: 44.588 ppbv

RT: 3.944 min Scan# 417

Delta R.T. -0.002 min

Lab File: VL039701.D

Acq: 10 Oct 2022 18:56

Tgt Ion: 84 Resp: 2683146

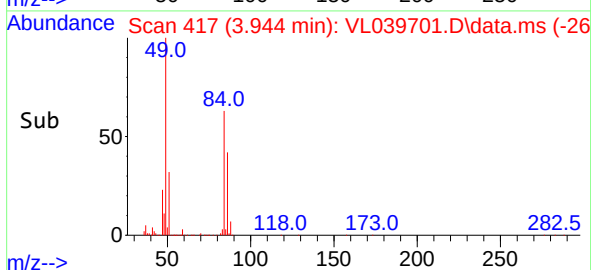
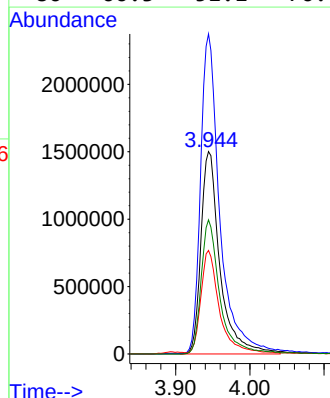
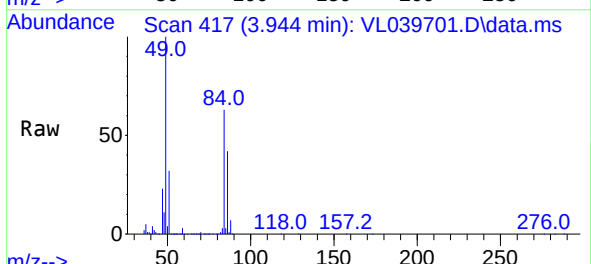
Ion Ratio Lower Upper

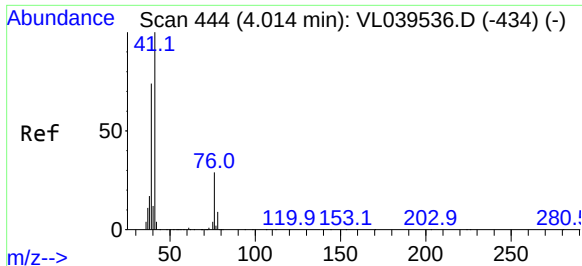
84 100

49 157.8 123.1 184.7

51 50.7 34.4 51.6

86 66.3 51.1 76.7

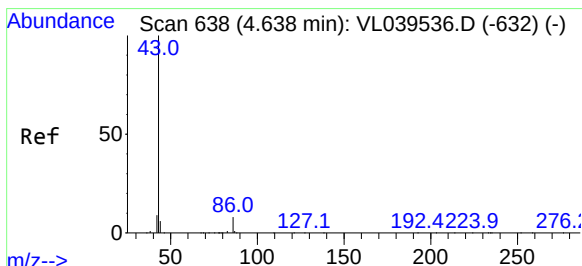
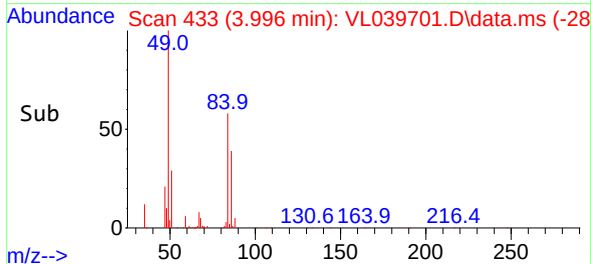
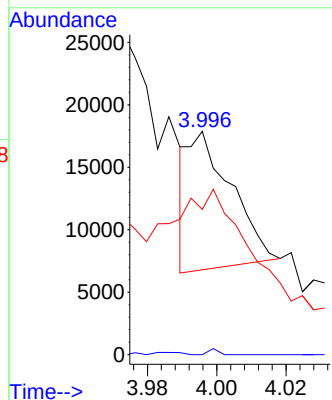
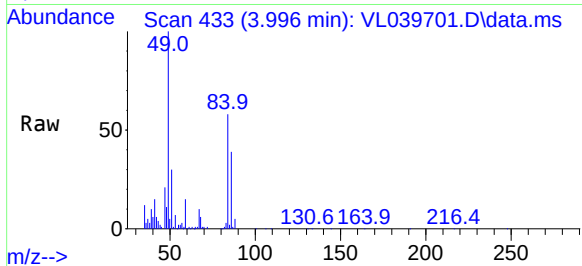




#21
 Allyl Chloride
 Concen: 0.108 ppbv
 RT: 3.996 min Scan# 41
 Delta R.T. -0.019 min
 Lab File: VL039701.D
 Acq: 10 Oct 2022 18:56

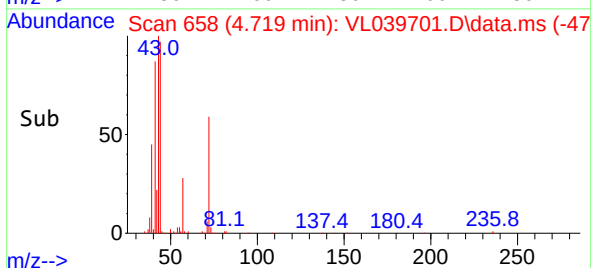
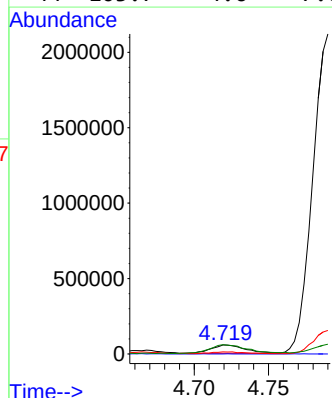
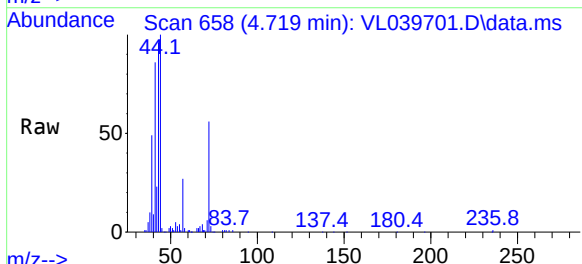
Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-02

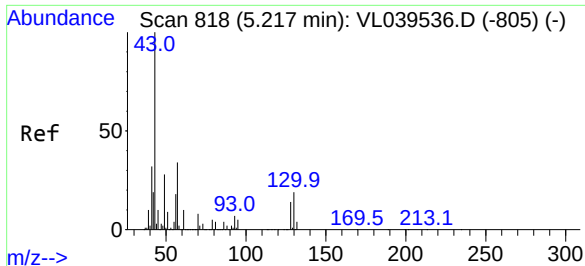
Tgt Ion: 41 Resp: 9533
 Ion Ratio Lower Upper
 41 100
 76 0.0 24.4 36.6#
 39 252.9 63.5 95.3#



#23
 Vinyl Acetate
 Concen: 1.475 ppbv
 RT: 4.719 min Scan# 658
 Delta R.T. 0.081 min
 Lab File: VL039701.D
 Acq: 10 Oct 2022 18:56

Tgt Ion: 43 Resp: 86761
 Ion Ratio Lower Upper
 43 100
 86 0.9 5.0 7.6#
 42 22.7 7.7 11.5#
 44 103.7 4.6 7.0#





#25

Ethyl Acetate

Concen: 4.996 ppbv

RT: 5.218 min Scan# 813

Delta R.T. 0.001 min

Lab File: VL039701.D

Acq: 10 Oct 2022 18:56

Instrument :

MSVOA_L

ClientSampleId :

SVP-02

Tgt Ion: 43 Resp: 1417860

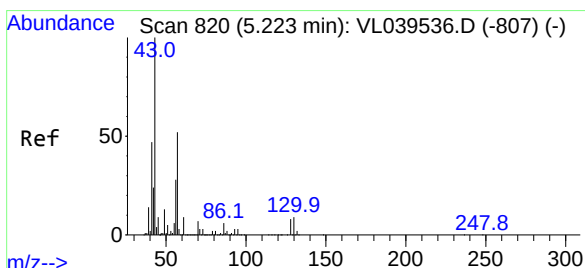
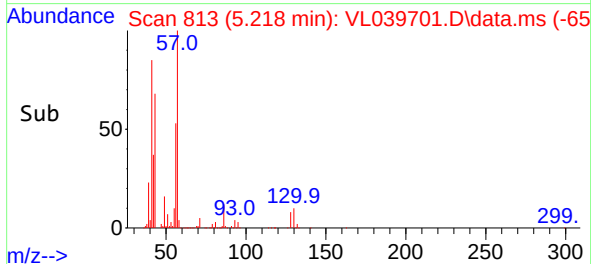
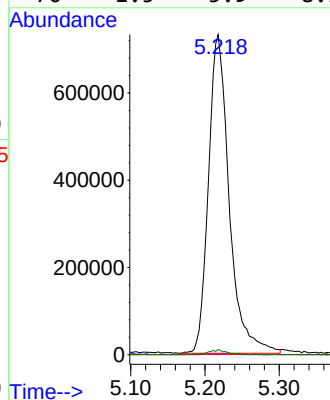
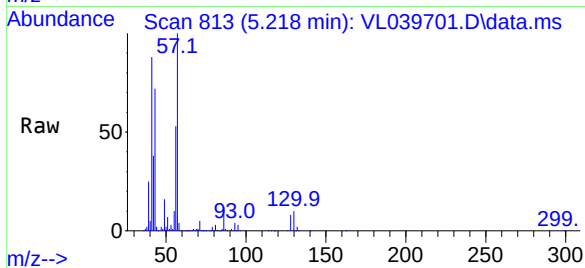
Ion Ratio Lower Upper

43 100

45 0.0 8.2 12.4#

61 0.2 8.3 12.5#

70 1.5 5.9 8.9#



#26

Hexane

Concen: 16.312 ppbv

RT: 5.218 min Scan# 813

Delta R.T. -0.006 min

Lab File: VL039701.D

Acq: 10 Oct 2022 18:56

Tgt Ion: 57 Resp: 1964542

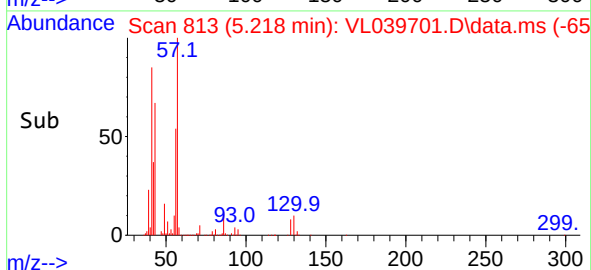
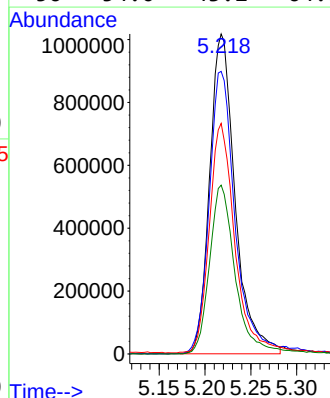
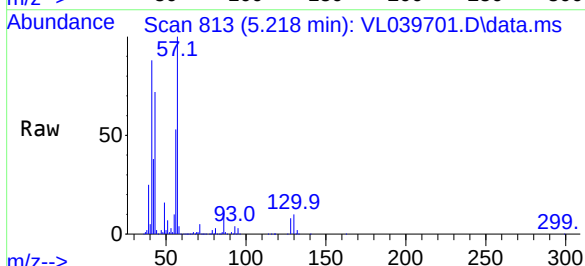
Ion Ratio Lower Upper

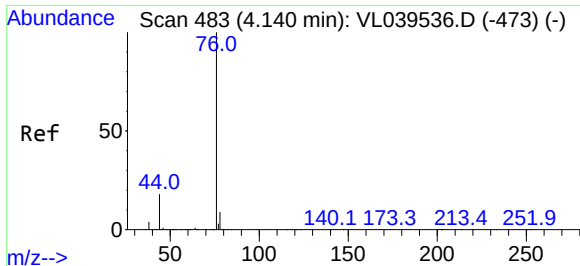
57 100

41 92.7 76.9 115.3

43 72.8 191.0 286.6#

56 54.0 43.2 64.8

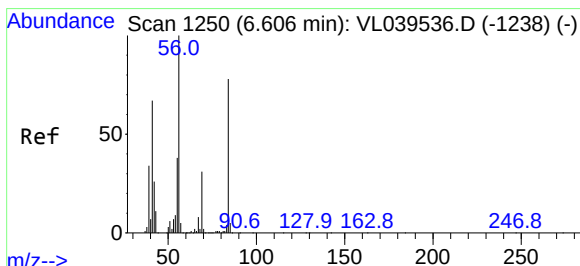
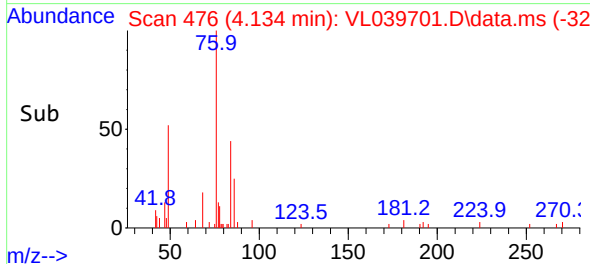
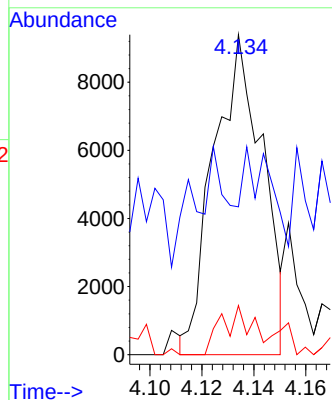
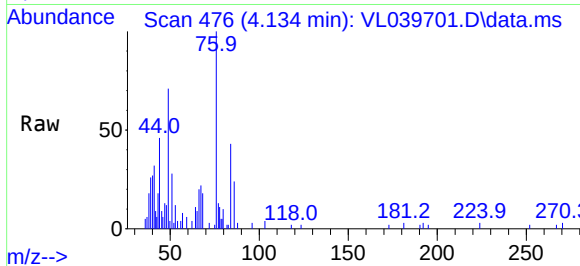




#27
Carbon Disulfide
Concen: 0.097 ppbv
RT: 4.134 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

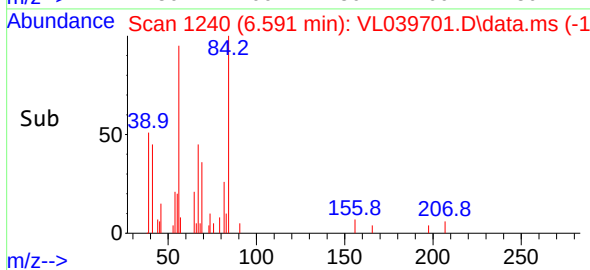
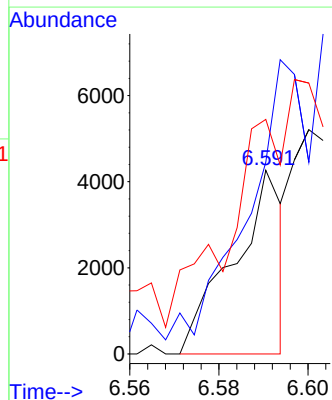
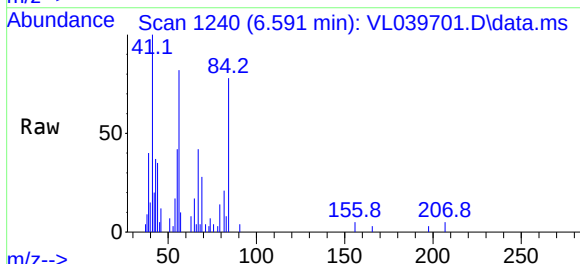
Instrument :
MSVOA_L
ClientSampleId :
SVP-02

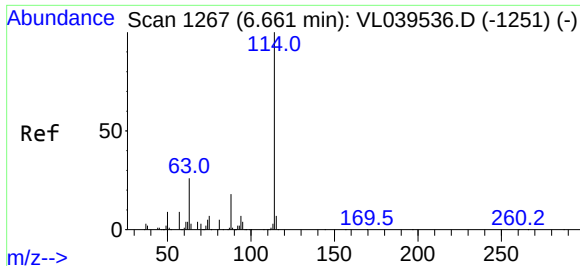
Tgt Ion: 76 Resp: 12265
Ion Ratio Lower Upper
76 100
44 51.3 14.6 21.8#
78 13.2 7.8 11.6#



#30
Cyclohexane
Concen: 0.035 ppbv
RT: 6.591 min Scan# 1240
Delta R.T. -0.015 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

Tgt Ion: 84 Resp: 3262
Ion Ratio Lower Upper
84 100
56 0.0 107.7 161.5#
41 0.0 67.7 101.5#

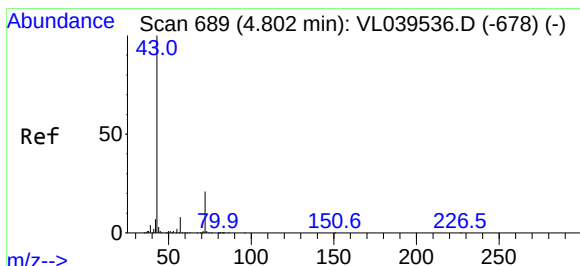
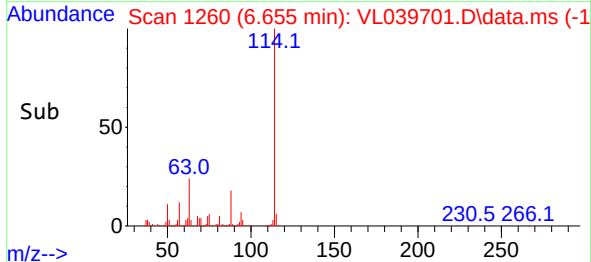
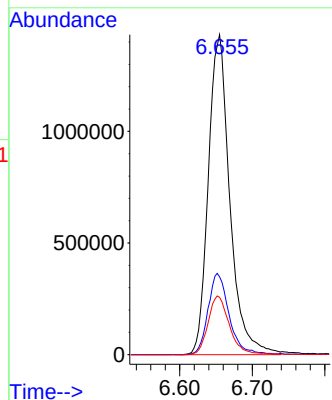
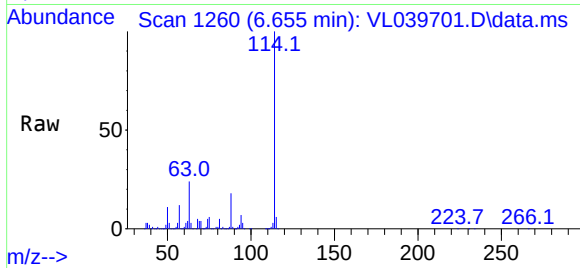




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

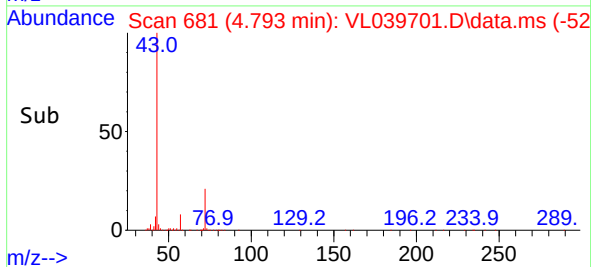
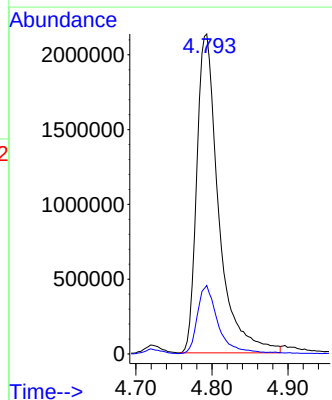
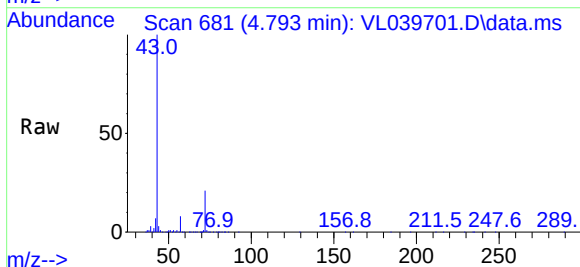
Instrument :
MSVOA_L
ClientSampleId :
SVP-02

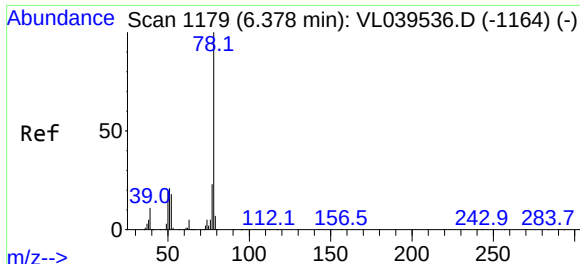
Tgt Ion:114 Resp: 2954046
Ion Ratio Lower Upper
114 100
63 25.3 20.2 30.4
88 18.4 14.5 21.7



#34
2-Butanone
Concen: 29.433 ppbv
RT: 4.793 min Scan# 681
Delta R.T. -0.009 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

Tgt Ion: 43 Resp: 4270632
Ion Ratio Lower Upper
43 100
72 20.6 17.9 26.9

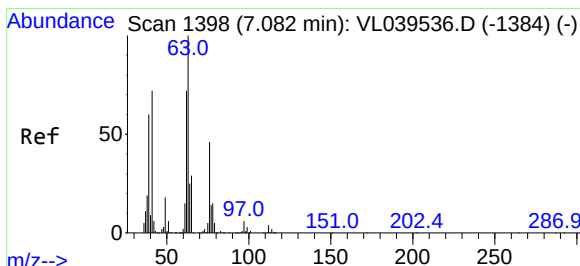
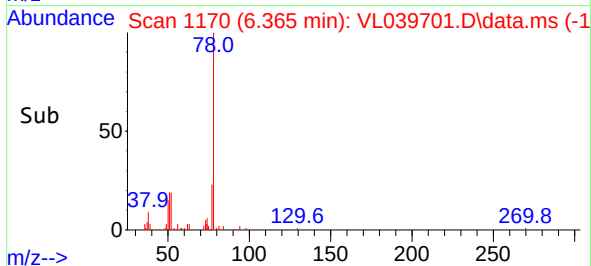
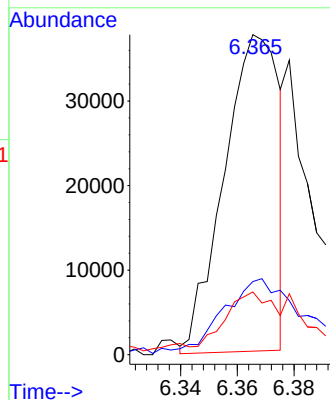
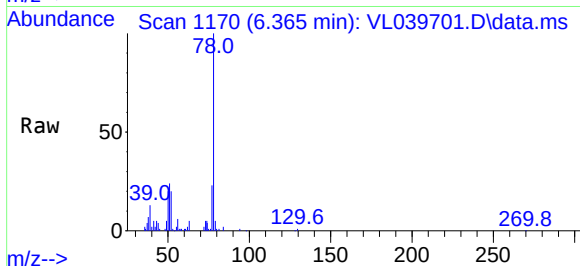




#36
Benzene
Concen: 0.222 ppbv
RT: 6.365 min Scan# 1179
Delta R.T. -0.012 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

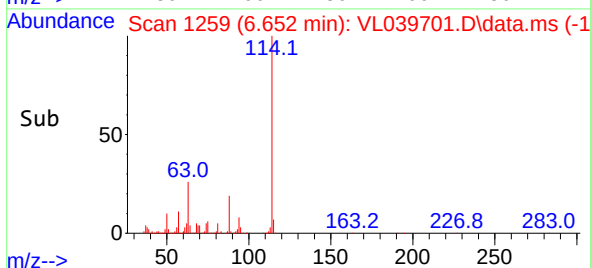
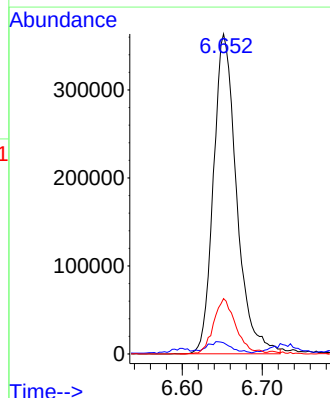
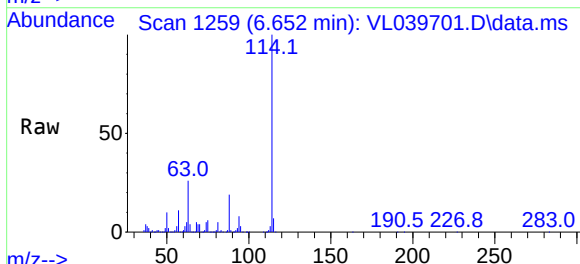
Instrument :
MSVOA_L
ClientSampleId :
SVP-02

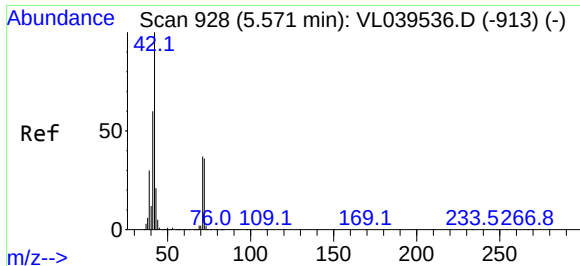
Tgt Ion: 78 Resp: 50096
Ion Ratio Lower Upper
78 100
77 21.6 20.3 30.5
50 16.6 15.5 23.3



#39
1,2-Dichloropropane
Concen: 8.392 ppbv
RT: 6.652 min Scan# 1259
Delta R.T. -0.430 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

Tgt Ion: 63 Resp: 731892
Ion Ratio Lower Upper
63 100
41 1.8 59.6 89.4#
62 17.3 51.4 77.0#

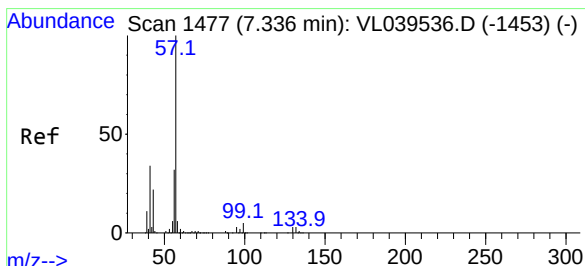
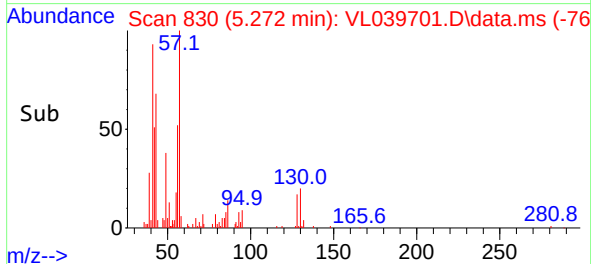
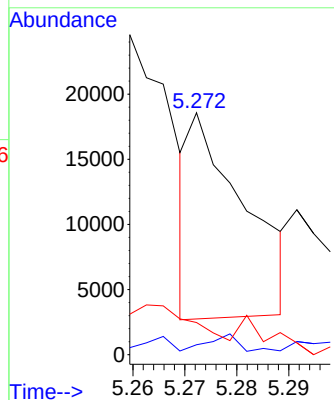
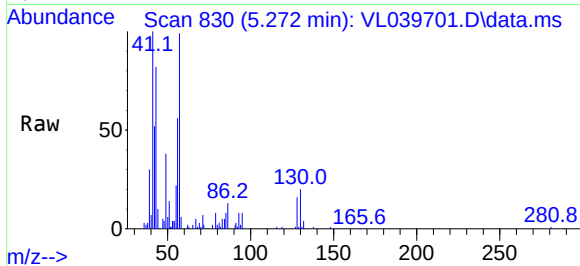




#41
Tetrahydrofuran
Concen: 0.130 ppbv
RT: 5.272 min Scan# 81
Delta R.T. -0.298 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

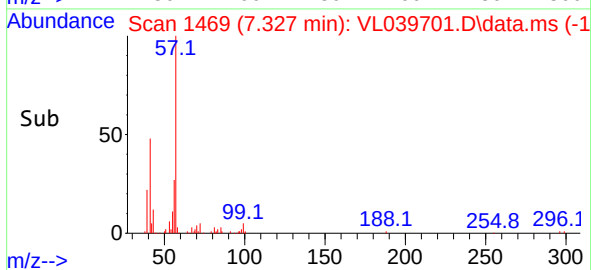
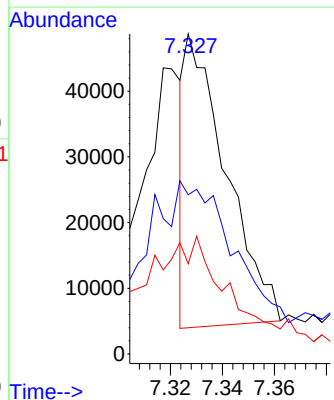
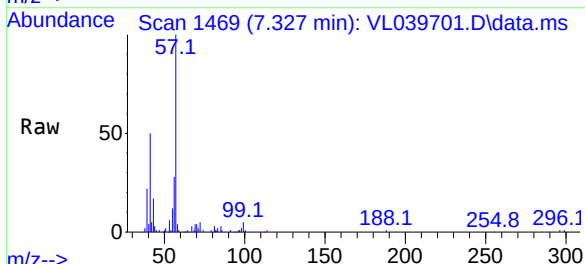
Instrument :
MSVOA_1
ClientSampleId :
SVP-02

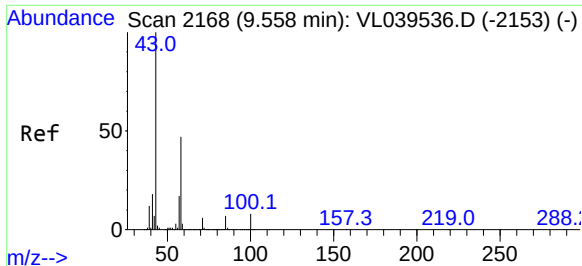
Tgt Ion: 42 Resp: 11540
Ion Ratio Lower Upper
42 100
72 4.5 31.8 47.8#
71 0.0 31.8 47.8#



#44
2,2,4-Trimethylpentane
Concen: 0.126 ppbv
RT: 7.327 min Scan# 1469
Delta R.T. -0.009 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

Tgt Ion: 57 Resp: 48858
Ion Ratio Lower Upper
57 100
41 143.4 27.4 41.2#
56 93.6 24.5 36.7#

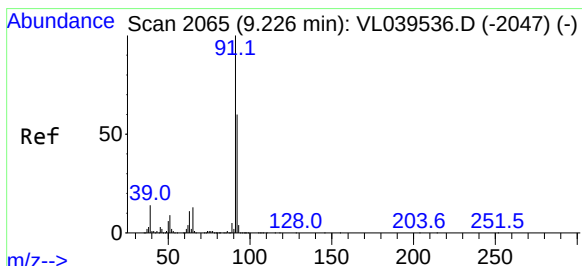
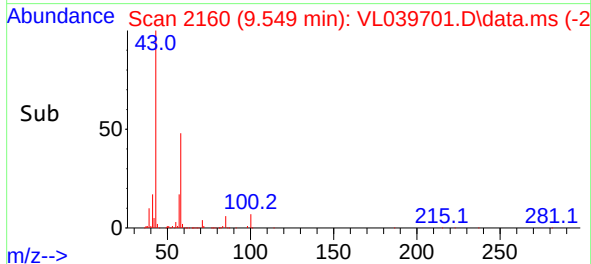
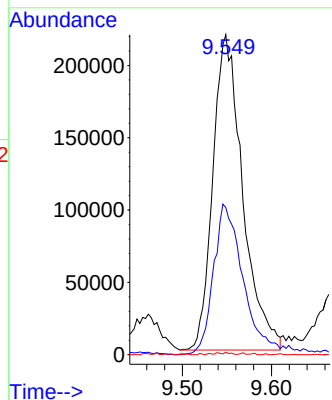
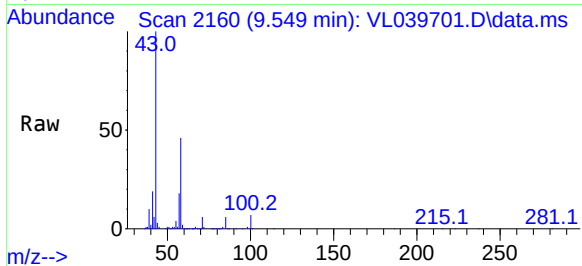




#51
2-Hexanone
Concen: 3.002 ppbv
RT: 9.549 min Scan# 2168
Delta R.T. -0.009 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

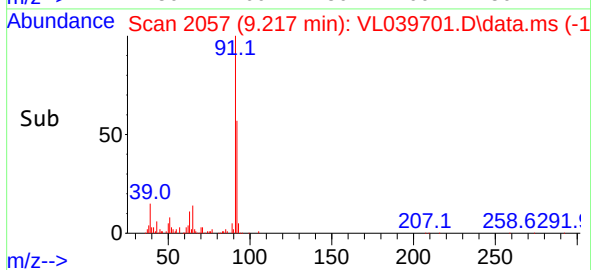
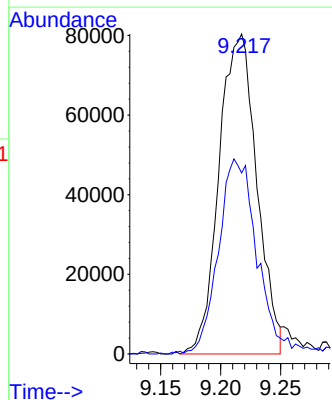
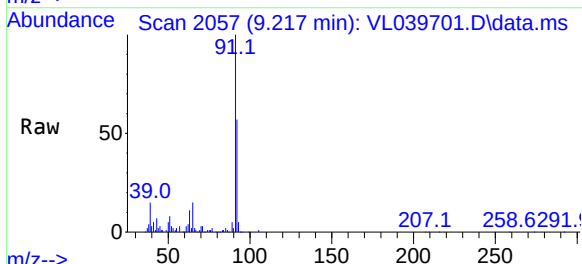
Instrument :
MSVOA_L
ClientSampleId :
SVP-02

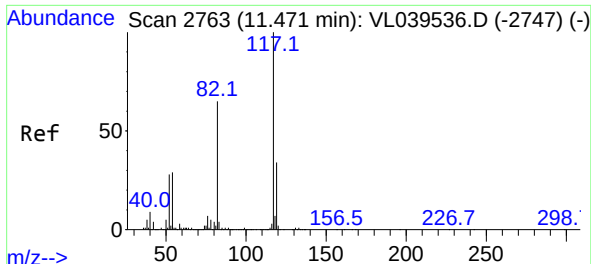
Tgt Ion: 43 Resp: 506612
Ion Ratio Lower Upper
43 100
58 50.2 38.4 57.6
98 0.4 0.3 0.5



#53
Toluene
Concen: 0.700 ppbv
RT: 9.217 min Scan# 2057
Delta R.T. -0.009 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

Tgt Ion: 91 Resp: 175875
Ion Ratio Lower Upper
91 100
92 64.6 48.2 72.2

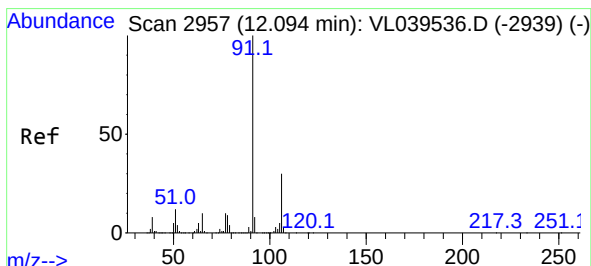
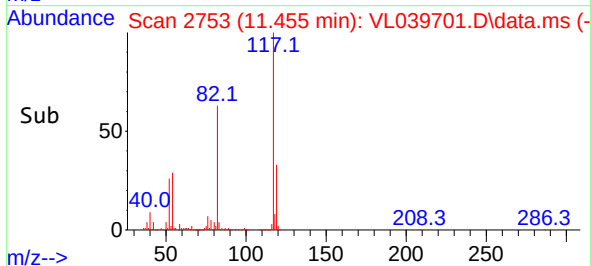
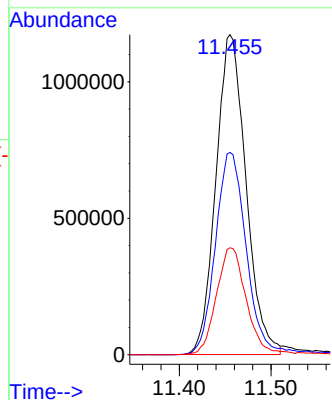
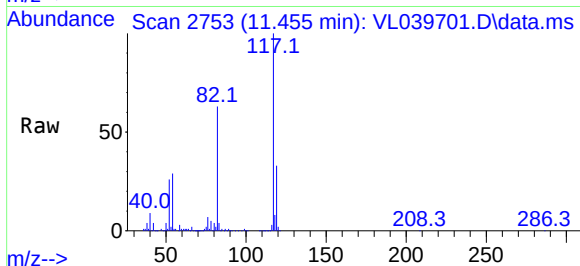




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 21
Delta R.T. -0.015 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

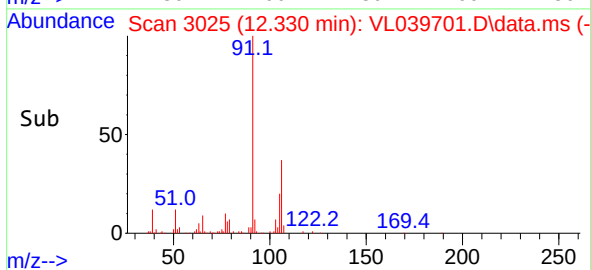
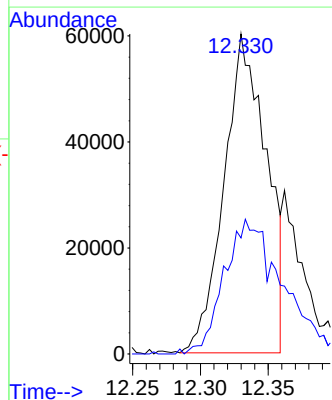
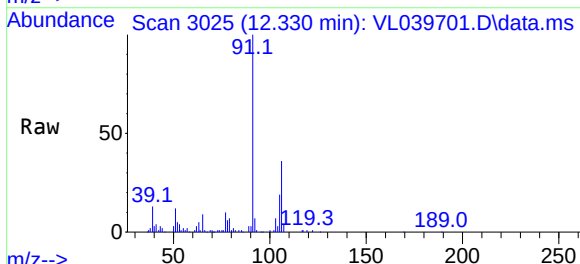
Instrument :
MSVOA_L
ClientSampleId :
SVP-02

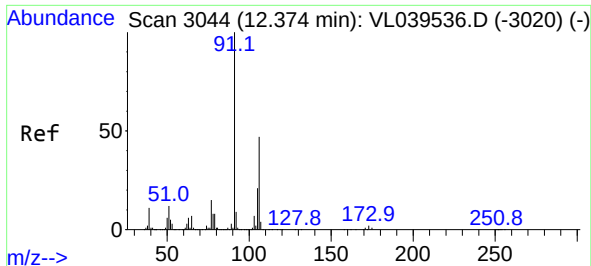
Tgt Ion:117 Resp: 2672003
Ion Ratio Lower Upper
117 100
82 66.5 50.8 76.2
119 33.9 24.1 36.1



#58
Ethyl Benzene
Concen: 0.424 ppbv
RT: 12.330 min Scan# 3025
Delta R.T. 0.235 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

Tgt Ion: 91 Resp: 130478
Ion Ratio Lower Upper
91 100
106 34.8 25.4 38.0





#59

m/p-Xylene

Concen: 0.100 ppbv

RT: 12.362 min Scan# 3044

Delta R.T. -0.012 min

Lab File: VL039701.D

Acq: 10 Oct 2022 18:56

Instrument :

MSVOA_L

ClientSampleId :

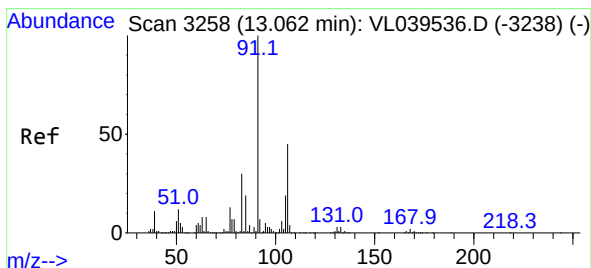
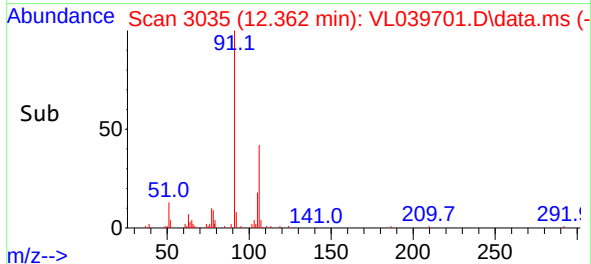
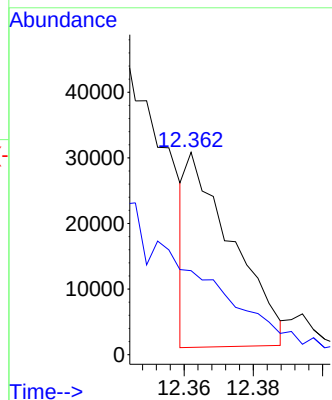
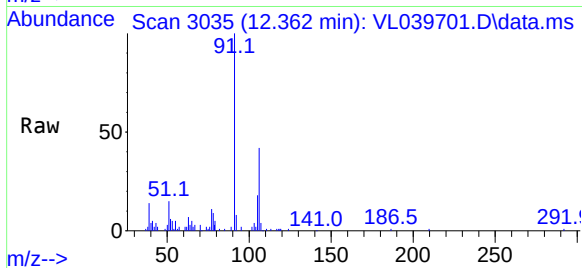
SVP-02

Tgt Ion: 91 Resp: 27326

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



#60

o-Xylene

Concen: 0.213 ppbv

RT: 13.050 min Scan# 3249

Delta R.T. -0.012 min

Lab File: VL039701.D

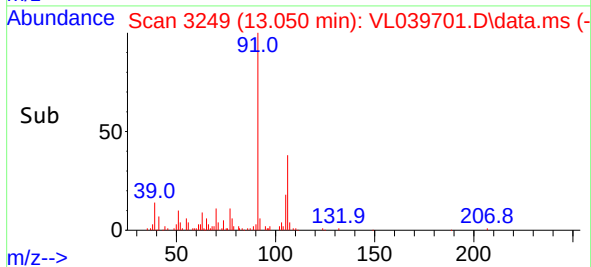
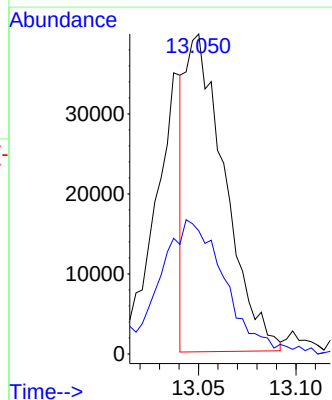
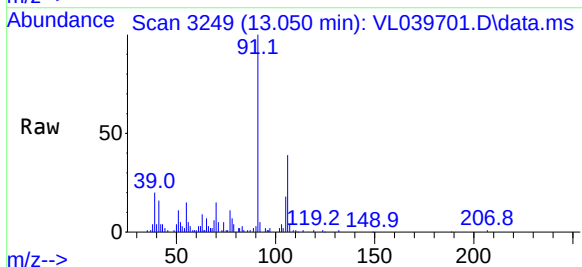
Acq: 10 Oct 2022 18:56

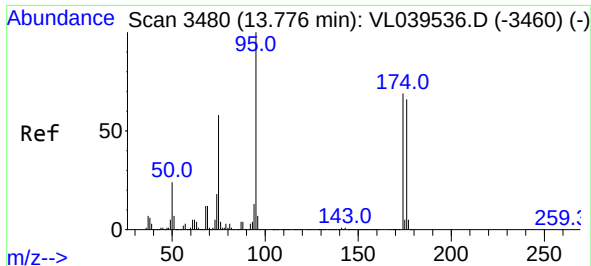
Tgt Ion: 91 Resp: 55824

Ion Ratio Lower Upper

91 100

106 71.7 22.4 67.3#

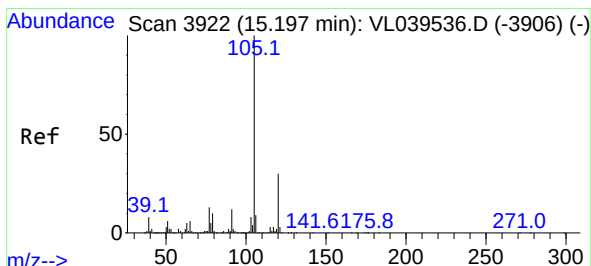
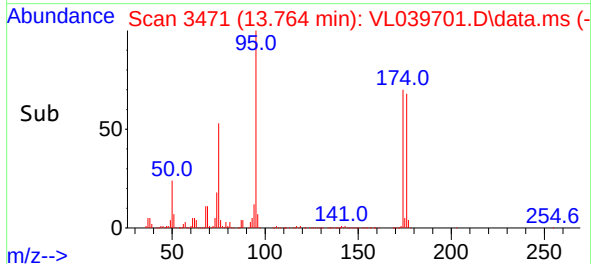
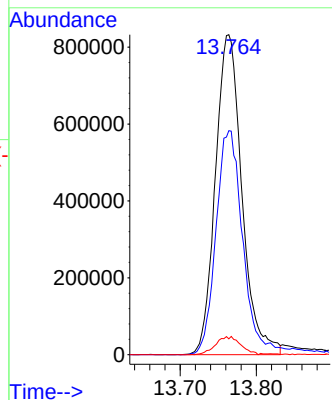
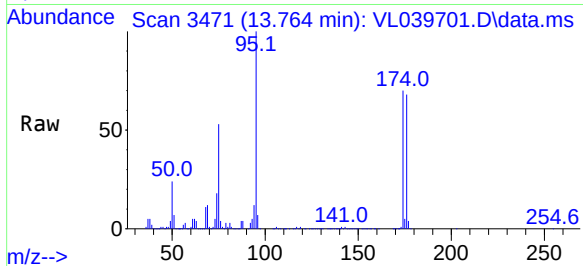




#68
1-Bromo-4-Fluorobenzene
Concen: 10.105 ppbv
RT: 13.764 min Scan# 34
Delta R.T. -0.012 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

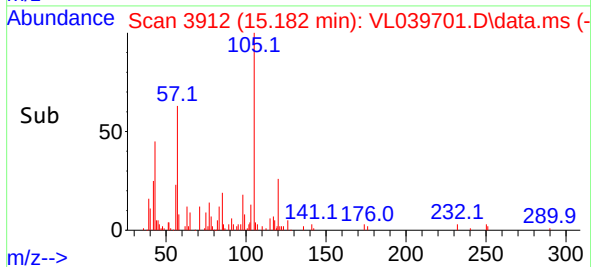
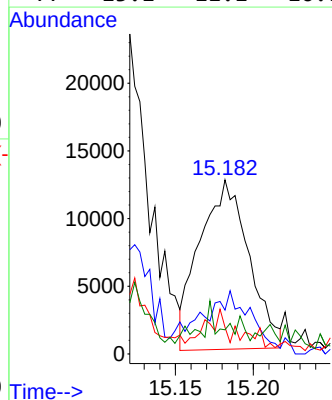
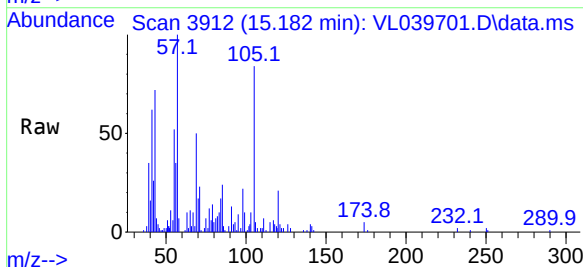
Instrument :
MSVOA_L
ClientSampleId :
SVP-02

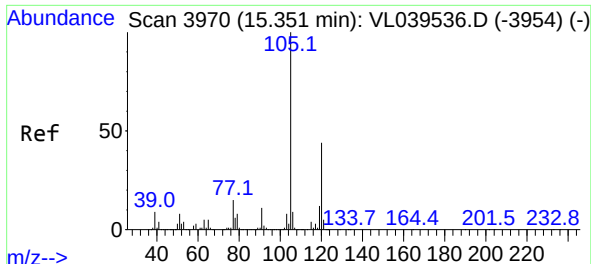
Tgt Ion: 95 Resp: 2015641
Ion Ratio Lower Upper
95 100
174 72.5 55.9 83.9
175 5.8 4.2 6.4



#72
4-Ethyltoluene
Concen: 0.092 ppbv
RT: 15.182 min Scan# 3912
Delta R.T. -0.015 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

Tgt Ion: 105 Resp: 27430
Ion Ratio Lower Upper
105 100
120 40.1 24.2 36.2#
91 13.4 10.2 15.4
77 13.1 11.1 16.7

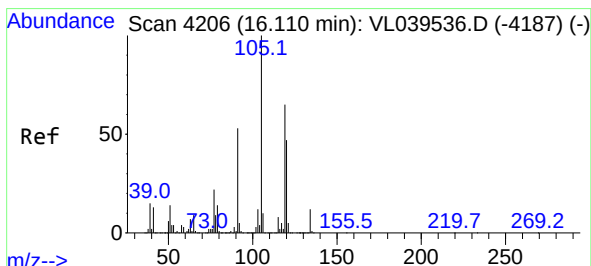
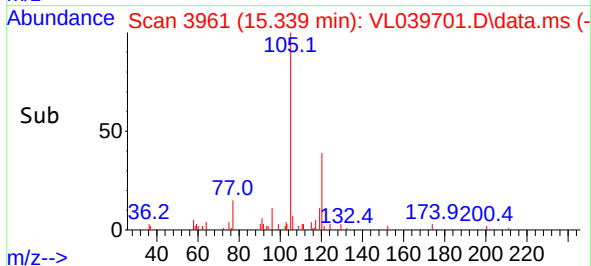
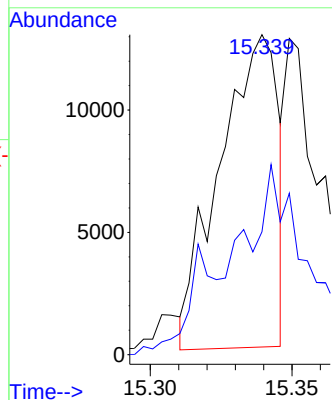
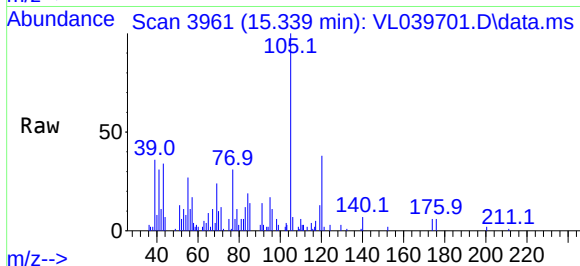




#73
1,3,5-Trimethylbenzene
Concen: 0.067 ppbv
RT: 15.339 min Scan# 3970
Delta R.T. -0.012 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

Instrument :
MSVOA_L
ClientSampleId :
SVP-02

Tgt Ion:105 Resp: 18341
Ion Ratio Lower Upper
105 100
120 36.1 38.2 57.4#



#74
1,2,4-Trimethylbenzene
Concen: 0.197 ppbv
RT: 16.092 min Scan# 4195
Delta R.T. -0.019 min
Lab File: VL039701.D
Acq: 10 Oct 2022 18:56

Tgt Ion:105 Resp: 60523
Ion Ratio Lower Upper
105 100
120 45.5 39.5 59.3
91 9.5 39.2 58.8#
77 5.7 17.2 25.8#

