

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101022\
 Data File : VL039700.D
 Acq On : 10 Oct 2022 18:17
 Operator : SY/AP
 Sample : N5040-02 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-01

Quant Time: Oct 11 07:19:34 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

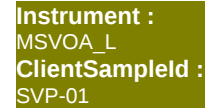
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

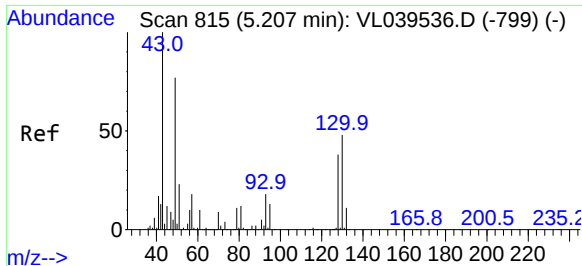
Internal Standards						
1) Bromochloromethane	5.198	49	1173022	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2980929	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2732959	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	2043255	10.015	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	= 100.200%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.745	85	12782	0.094	ppbv	95
3) Chlorodifluoromethane	2.983	51	1377993	9.899	ppbv #	57
4) Chloromethane	2.983	50	1483035	17.655	ppbv #	80
9) Propene	2.713	41	1889194	29.715	ppbv	98
10) Heptane	7.578	43	48012	0.324	ppbv	87
11) Trichlorofluoromethane	3.581	101	15934	0.095	ppbv	91
13) Ethanol	3.253	45	918101	189.527	ppbv	71
15) Acetone	3.478	43	8357491	64.028	ppbv #	41
16) 1,3-Butadiene	2.980	39	10099046	152.517	ppbv #	16
17) tert-Butyl alcohol	3.893	59	6256725	53.413	ppbv	99
19) Isopropyl Alcohol	3.594	45	217477	3.269	ppbv #	88
20) Methylene Chloride	3.947	84	922813	15.291	ppbv	97
21) Allyl Chloride	3.992	41	45178	0.508	ppbv #	30
23) Vinyl Acetate	4.722	43	196753	3.334	ppbv #	2
25) Ethyl Acetate	5.221	43	581437	2.043	ppbv #	76
26) Hexane	5.218	57	808070	6.690	ppbv #	38
27) Carbon Disulfide	4.137	76	26341	0.208	ppbv #	88
34) 2-Butanone	4.790	43	9986078	68.202	ppbv	98
36) Benzene	6.372	78	195963	0.860	ppbv	96
39) 1,2-Dichloropropane	6.655	63	721686	8.201	ppbv #	30
41) Tetrahydrofuran	5.497	42	12248	0.136	ppbv #	54
44) 2,2,4-Trimethylpentane	7.327	57	218313	0.556	ppbv #	63
51) 2-Hexanone	9.545	43	987009	5.795	ppbv #	100
53) Toluene	9.214	91	365134	1.441	ppbv	99
58) Ethyl Benzene	12.073	91	46425	0.147	ppbv	100
59) m/p-Xylene	12.359	91	65992	0.235	ppbv #	32
60) o-Xylene	13.050	91	160751	0.600	ppbv	100
64) n-propylbenzene	14.902	120	5703	0.055	ppbv #	1
71) 2-Chlorotoluene	15.114	91	14431	0.050	ppbv	80
72) 4-Ethyltoluene	15.182	105	35416	0.116	ppbv #	82
73) 1,3,5-Trimethylbenzene	15.342	105	38322	0.137	ppbv	93
74) 1,2,4-Trimethylbenzene	16.101	105	145825	0.465	ppbv #	69
80) Naphthalene,2-methyl-	24.361	142	2463	0.032	ppbv #	81

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

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MSVOA_L
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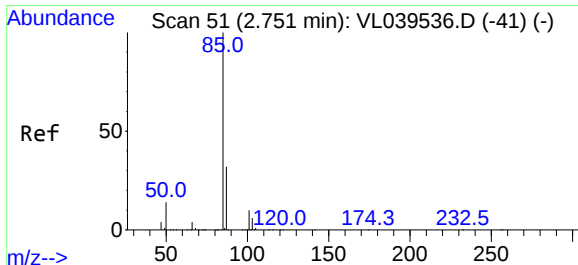
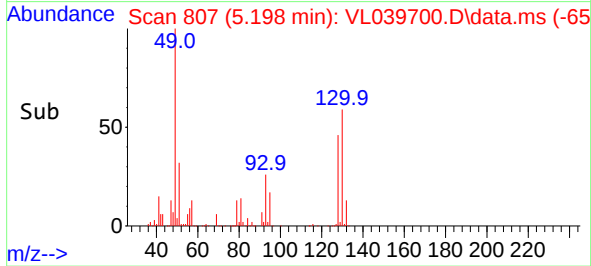
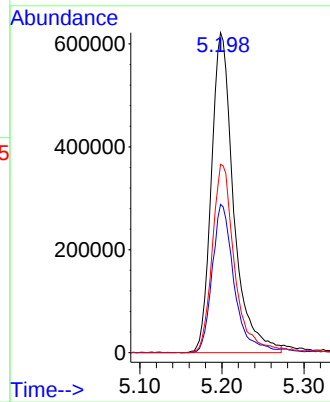
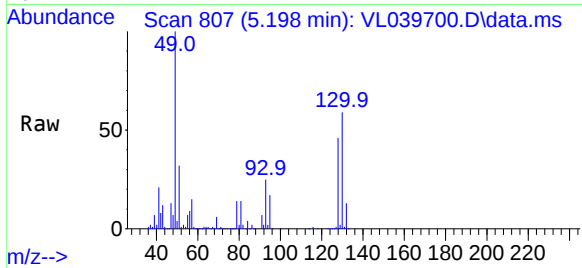




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.198 min Scan# 80
Delta R.T. -0.009 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

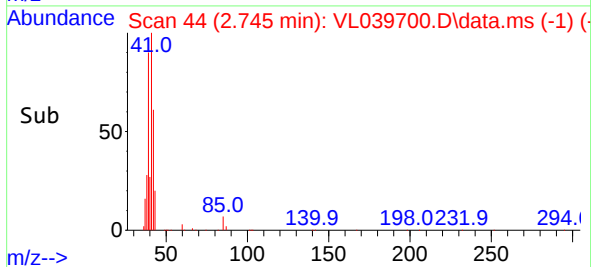
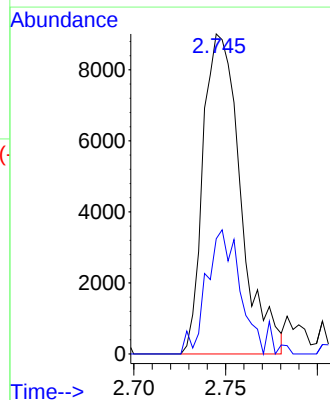
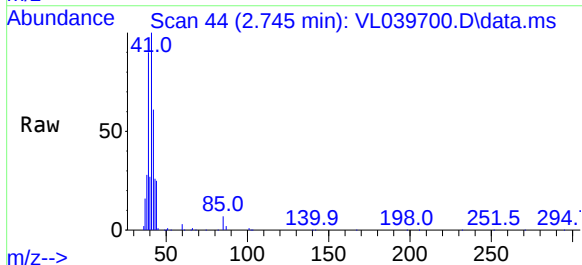
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SVP-01

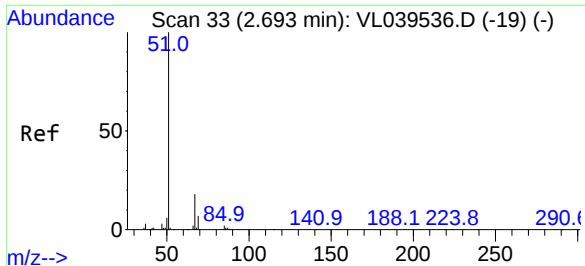
Tgt Ion: 49 Resp: 1173022
Ion Ratio Lower Upper
49 100
128 47.2 26.7 80.0
130 60.9 34.3 102.8



#2
Dichlorodifluoromethane
Concen: 0.094 ppbv
RT: 2.745 min Scan# 44
Delta R.T. -0.006 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

Tgt Ion: 85 Resp: 12782
Ion Ratio Lower Upper
85 100
87 36.0 26.7 40.1

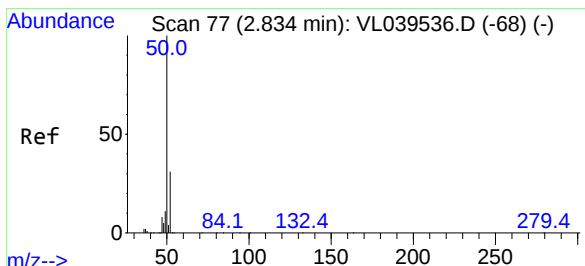
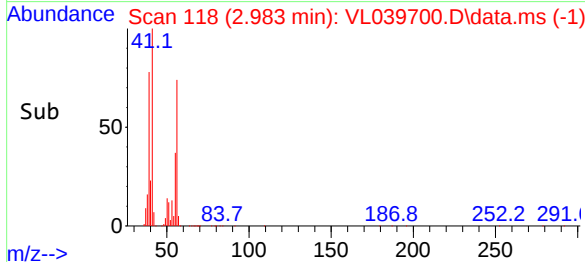
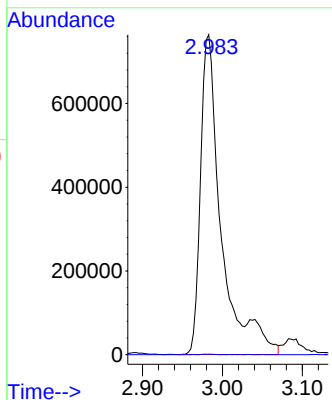
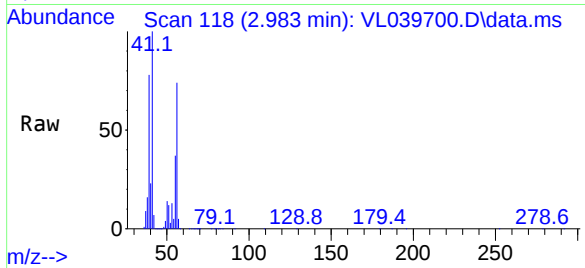




#3
Chlorodifluoromethane
Concen: 9.899 ppbv
RT: 2.983 min Scan# 118
Delta R.T. 0.290 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

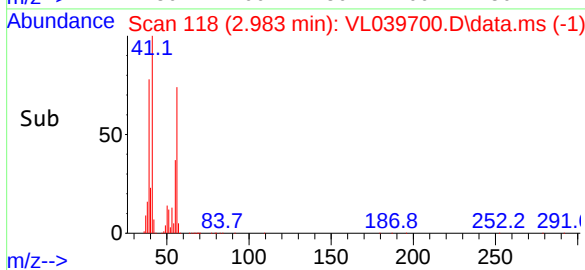
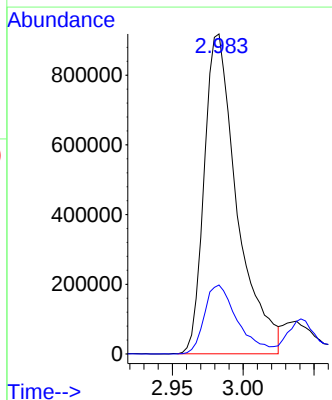
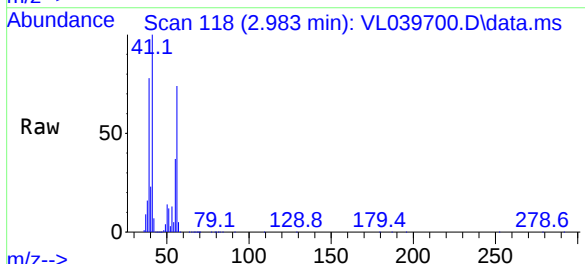
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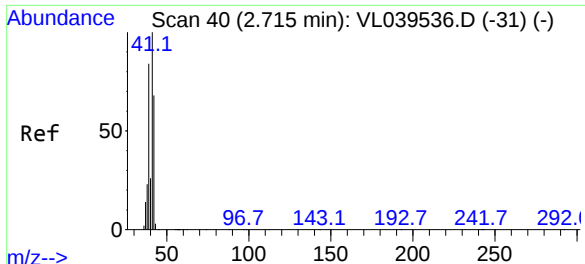
Tgt Ion: 51 Resp: 1377993
Ion Ratio Lower Upper
51 100
67 0.1 15.7 23.5#



#4
Chloromethane
Concen: 17.655 ppbv
RT: 2.983 min Scan# 118
Delta R.T. 0.149 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

Tgt Ion: 50 Resp: 1483035
Ion Ratio Lower Upper
50 100
52 21.5 26.5 39.7#

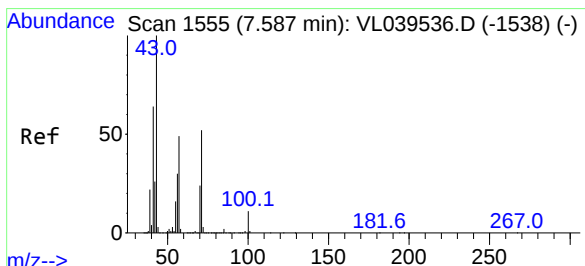
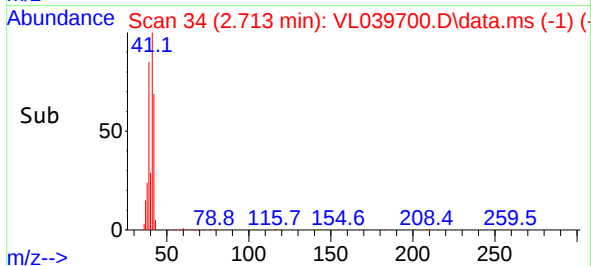
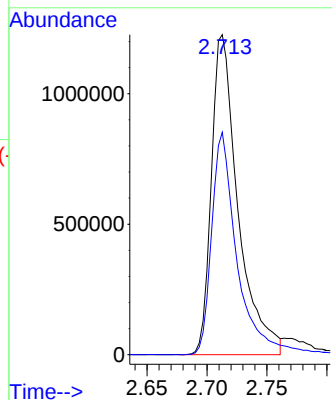
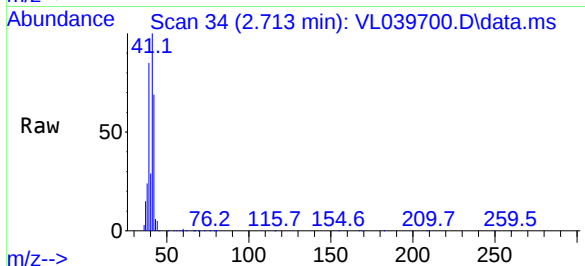




#9
Propene
Concen: 29.715 ppbv
RT: 2.713 min Scan# 34
Delta R.T. -0.003 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

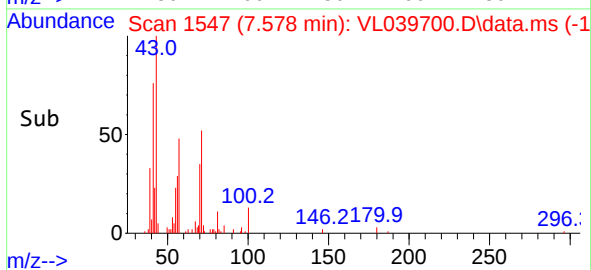
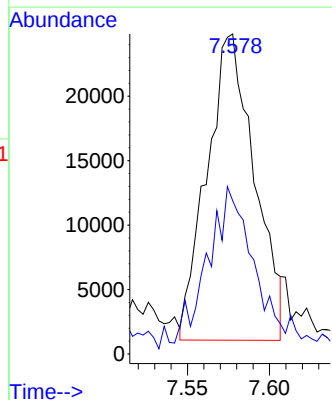
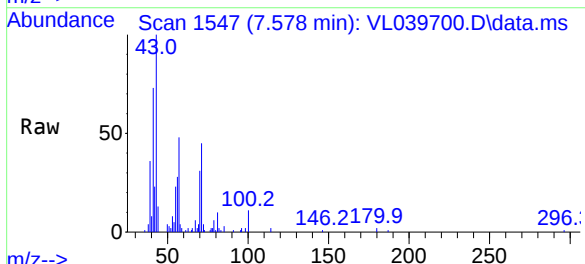
Instrument :
MSVOA_L
ClientSampleId :
SVP-01

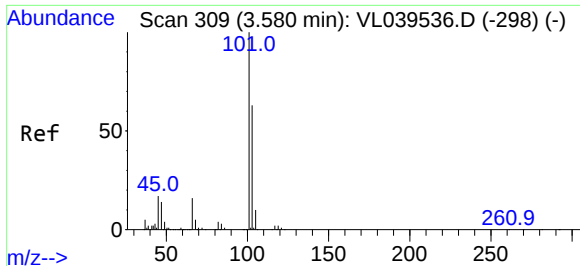
Tgt Ion: 41 Resp: 1889194
Ion Ratio Lower Upper
41 100
42 67.1 55.2 82.8



#10
Heptane
Concen: 0.324 ppbv
RT: 7.578 min Scan# 1547
Delta R.T. -0.009 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

Tgt Ion: 43 Resp: 48012
Ion Ratio Lower Upper
43 100
57 59.8 40.5 60.7

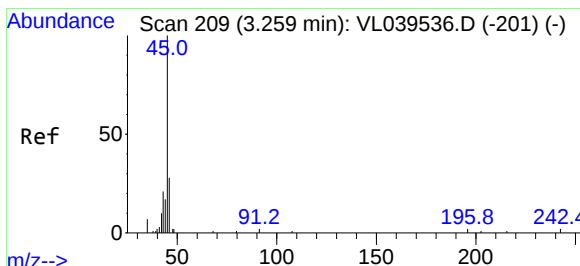
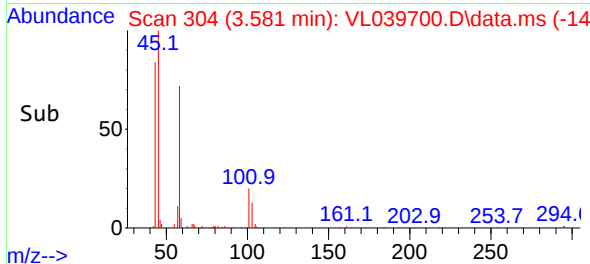
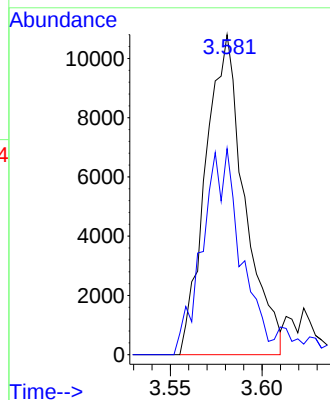
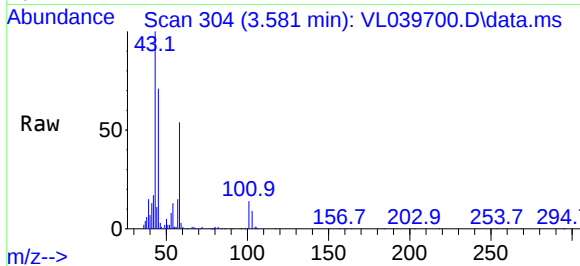




#11
Trichlorofluoromethane
Concen: 0.095 ppbv
RT: 3.581 min Scan# 309
Delta R.T. 0.001 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

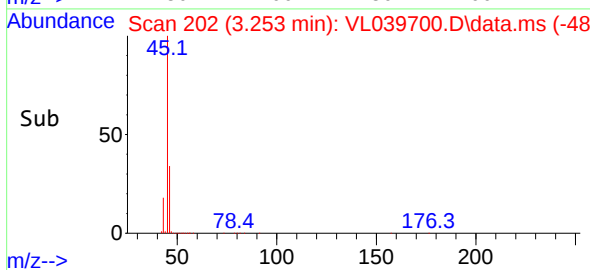
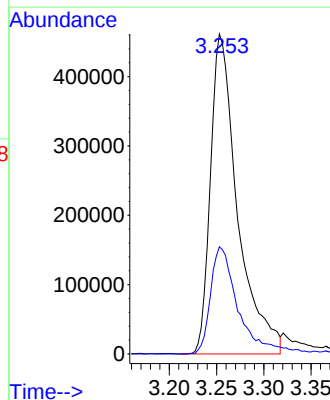
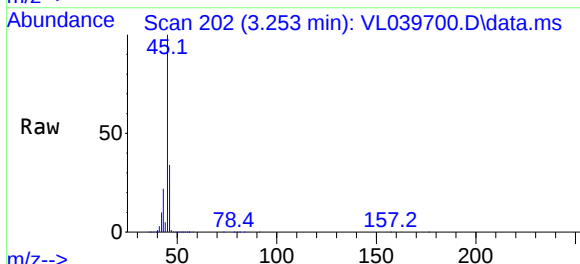
Instrument :
MSVOA_L
ClientSampleId :
SVP-01

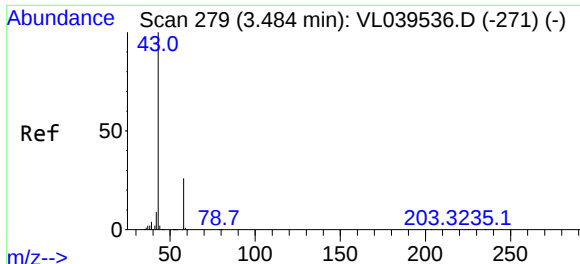
Tgt Ion:101 Resp: 15934
Ion Ratio Lower Upper
101 100
103 57.7 51.8 77.8



#13
Ethanol
Concen: 189.527 ppbv
RT: 3.253 min Scan# 202
Delta R.T. -0.006 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

Tgt Ion: 45 Resp: 918101
Ion Ratio Lower Upper
45 100
46 35.7 22.8 91.2

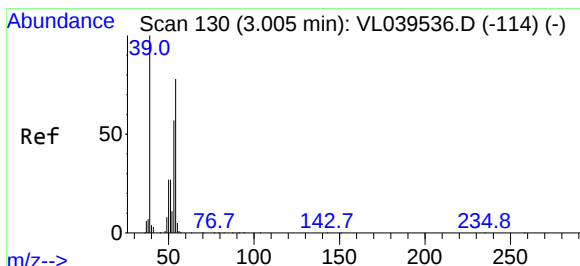
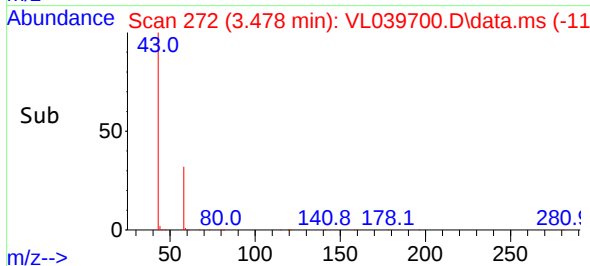
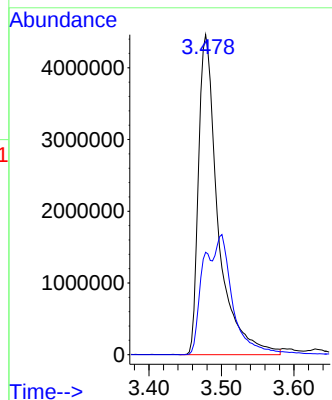
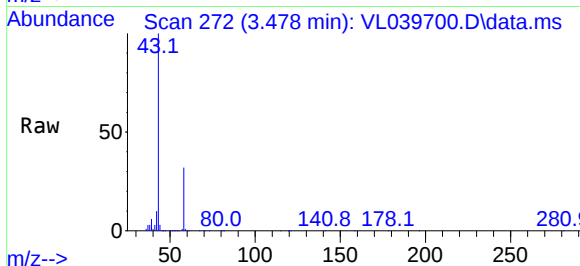




#15
Acetone
Concen: 64.028 ppbv
RT: 3.478 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

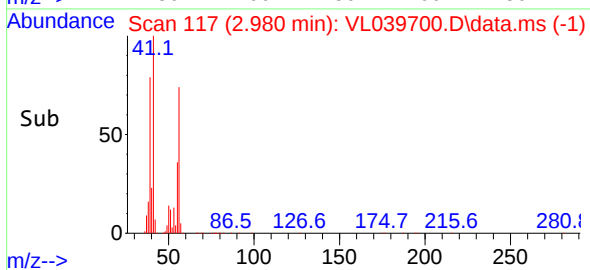
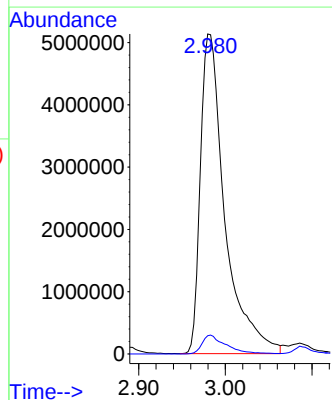
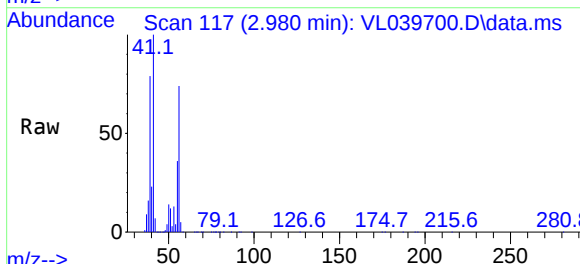
Instrument :
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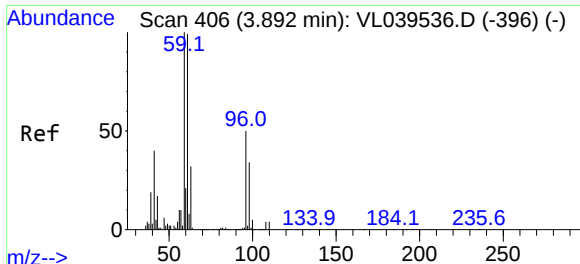
Tgt Ion: 43 Resp: 8357491
Ion Ratio Lower Upper
43 100
58 56.6 21.0 31.6#



#16
1,3-Butadiene
Concen: 152.517 ppbv
RT: 2.980 min Scan# 117
Delta R.T. -0.025 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

Tgt Ion: 39 Resp:10099046
Ion Ratio Lower Upper
39 100
54 5.8 63.7 95.5#

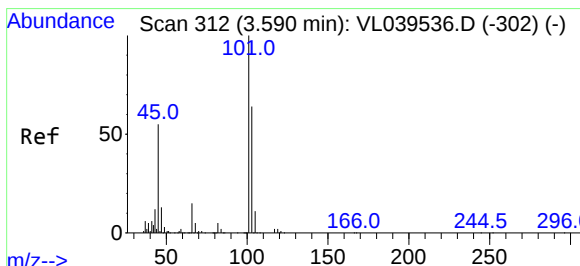
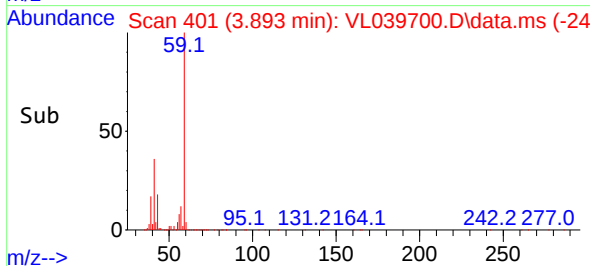
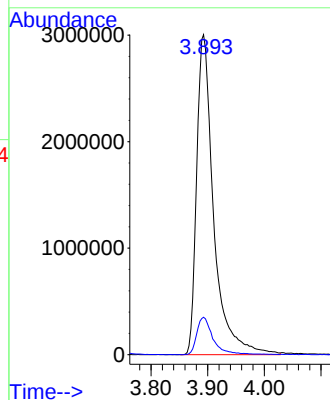
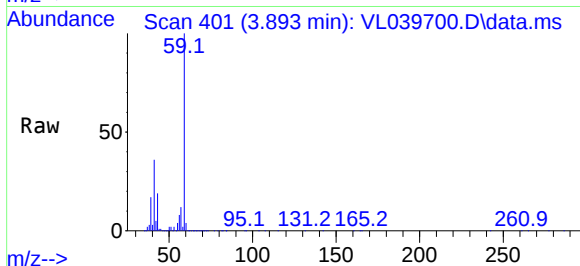




#17
tert-Butyl alcohol
Concen: 53.413 ppbv
RT: 3.893 min Scan# 406
Delta R.T. 0.001 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

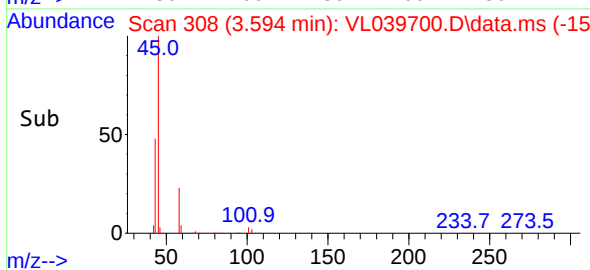
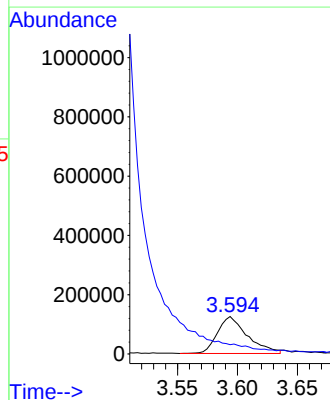
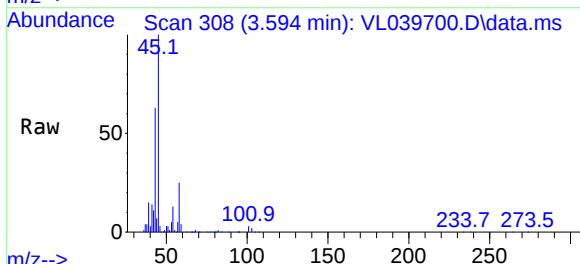
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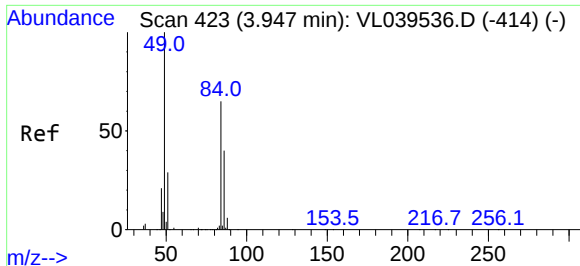
Tgt Ion: 59 Resp: 6256725
Ion Ratio Lower Upper
59 100
57 11.3 8.7 13.1



#19
Isopropyl Alcohol
Concen: 3.269 ppbv
RT: 3.594 min Scan# 308
Delta R.T. 0.004 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

Tgt Ion: 45 Resp: 217477
Ion Ratio Lower Upper
45 100
58 0.0 3.2 4.8#





#20

Methylene Chloride

Concen: 15.291 ppbv

RT: 3.947 min Scan# 41

Delta R.T. 0.001 min

Lab File: VL039700.D

Acq: 10 Oct 2022 18:17

Instrument :

MSVOA_L

ClientSampleId :

SVP-01

Tgt Ion: 84 Resp: 922813

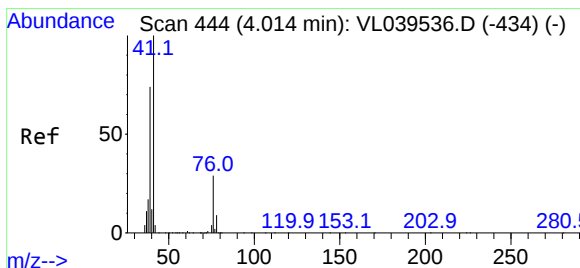
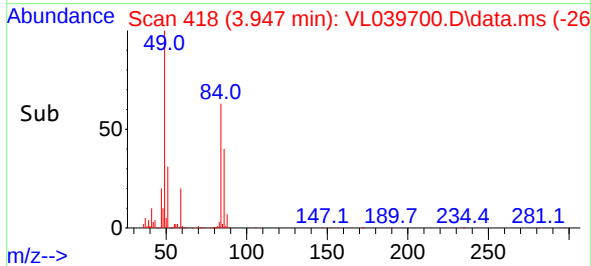
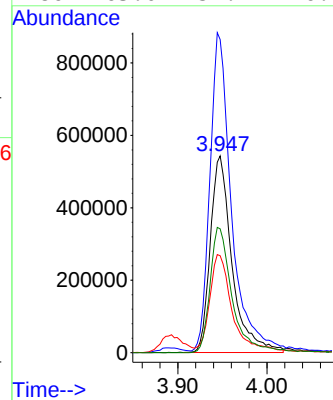
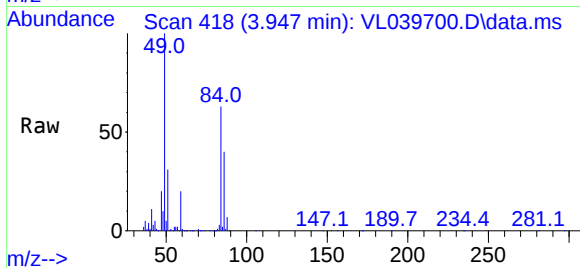
Ion Ratio Lower Upper

84 100

49 157.7 123.1 184.7

51 48.0 34.4 51.6

86 63.0 51.1 76.7



#21

Allyl Chloride

Concen: 0.508 ppbv

RT: 3.992 min Scan# 432

Delta R.T. -0.022 min

Lab File: VL039700.D

Acq: 10 Oct 2022 18:17

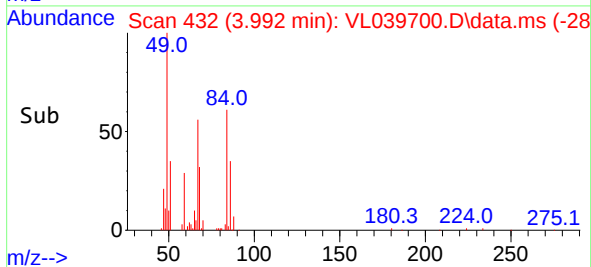
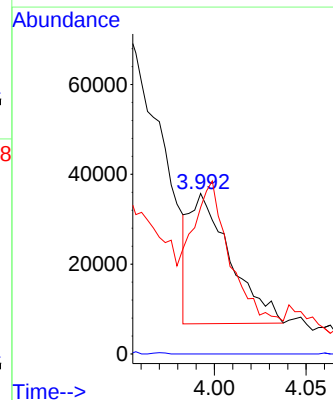
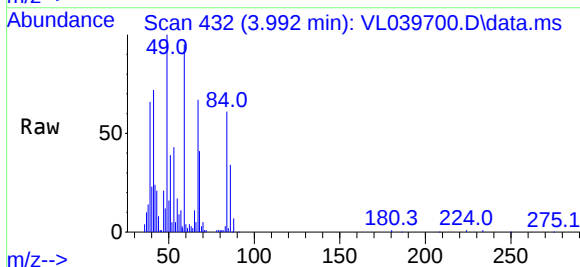
Tgt Ion: 41 Resp: 45178

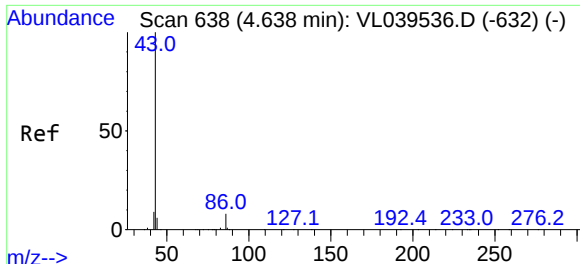
Ion Ratio Lower Upper

41 100

76 0.0 24.4 36.6#

39 145.4 63.5 95.3#



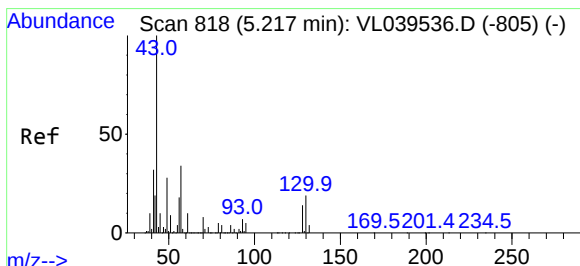
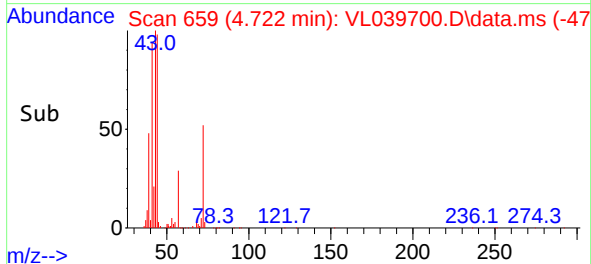
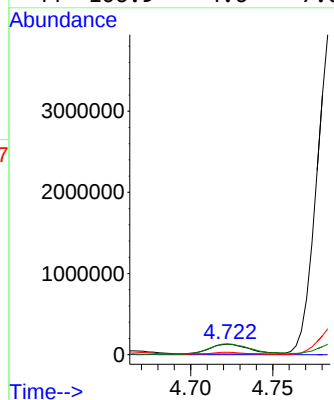
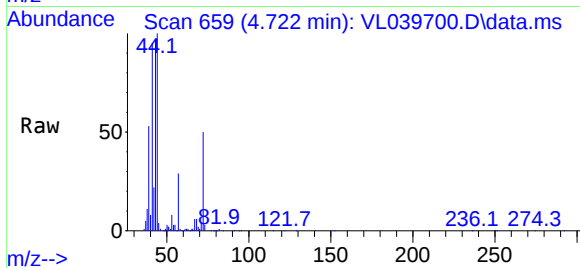


#23
 Vinyl Acetate
 Concen: 3.334 ppbv
 RT: 4.722 min Scan# 61
 Delta R.T. 0.084 min
 Lab File: VL039700.D
 Acq: 10 Oct 2022 18:17

Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-01

Tgt Ion: 43 Resp: 196753

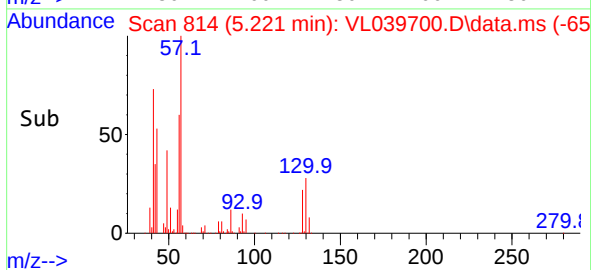
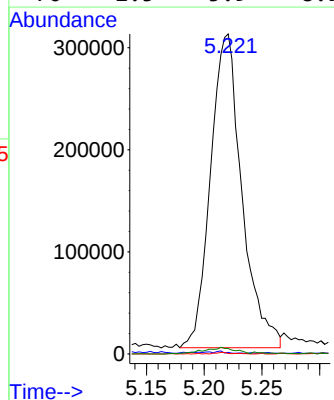
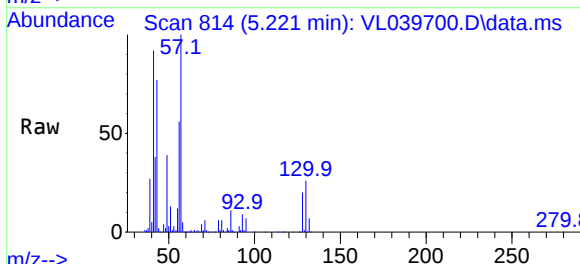
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.0	7.6#
42	20.2	7.7	11.5#
44	106.9	4.6	7.0#

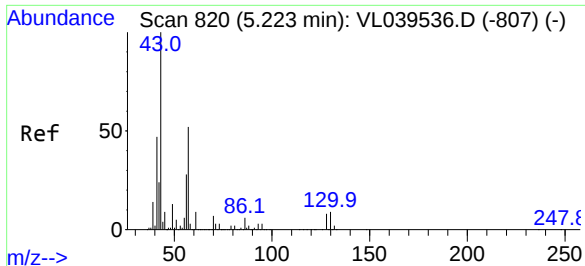


#25
 Ethyl Acetate
 Concen: 2.043 ppbv
 RT: 5.221 min Scan# 814
 Delta R.T. 0.004 min
 Lab File: VL039700.D
 Acq: 10 Oct 2022 18:17

Tgt Ion: 43 Resp: 581437

Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.2	12.4#
61	0.3	8.3	12.5#
70	2.5	5.9	8.9#

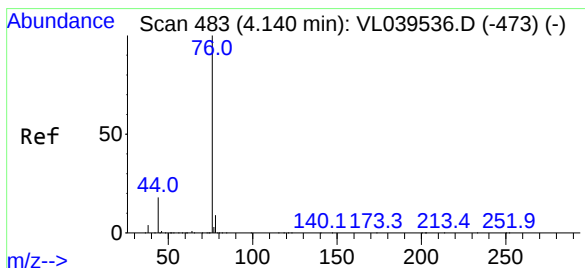
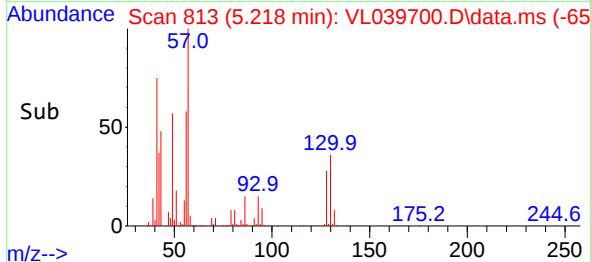
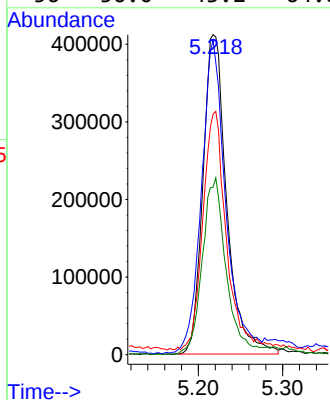
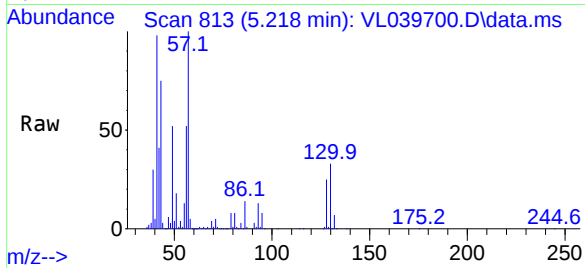




#26
Hexane
Concen: 6.690 ppbv
RT: 5.218 min Scan# 81
Delta R.T. -0.006 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

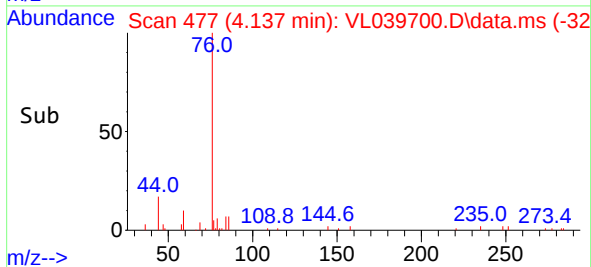
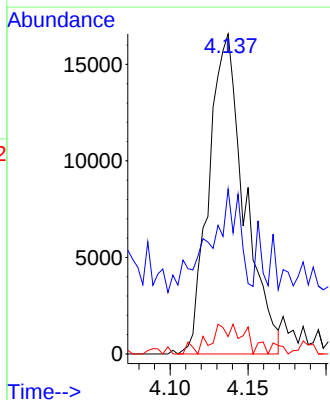
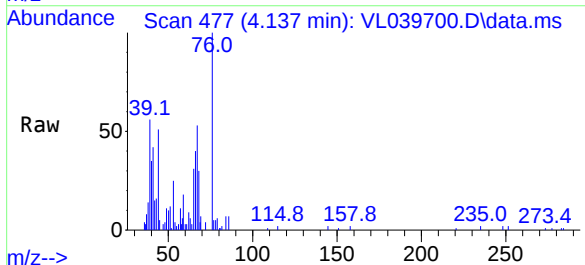
Instrument :
MSVOA_L
ClientSampleId :
SVP-01

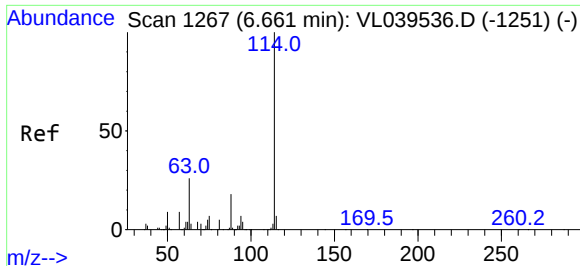
Tgt Ion: 57 Resp: 808070
Ion Ratio Lower Upper
57 100
41 105.2 76.9 115.3
43 76.2 191.0 286.6#
56 56.0 43.2 64.8



#27
Carbon Disulfide
Concen: 0.208 ppbv
RT: 4.137 min Scan# 477
Delta R.T. -0.003 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

Tgt Ion: 76 Resp: 26341
Ion Ratio Lower Upper
76 100
44 25.8 14.6 21.8#
78 9.2 7.8 11.6

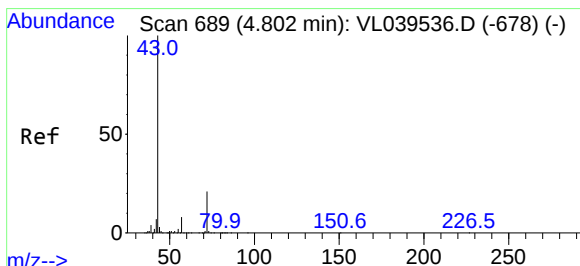
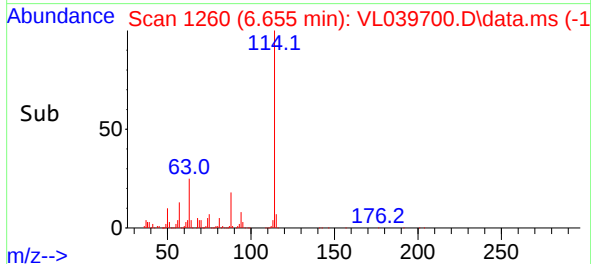
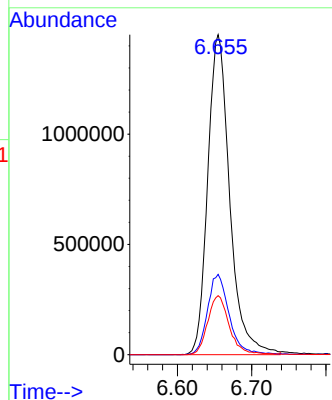
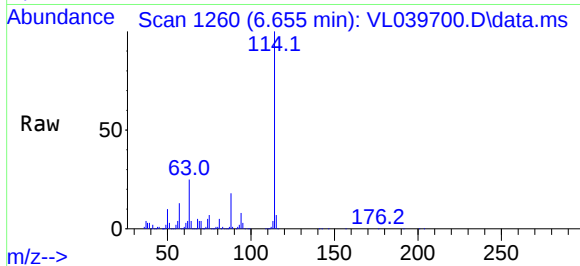




#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.655 min Scan# 11
Delta R.T. -0.006 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

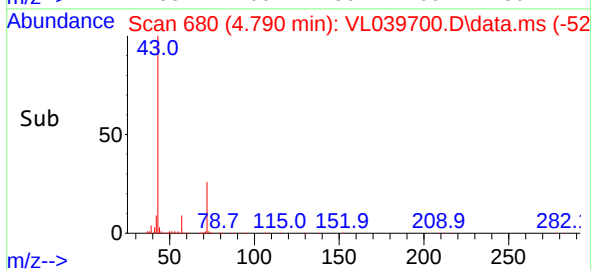
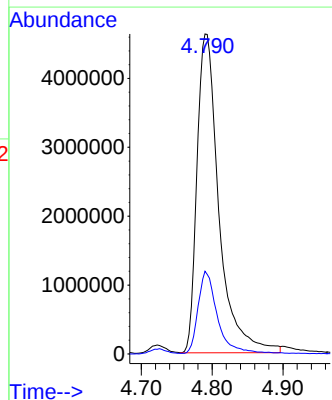
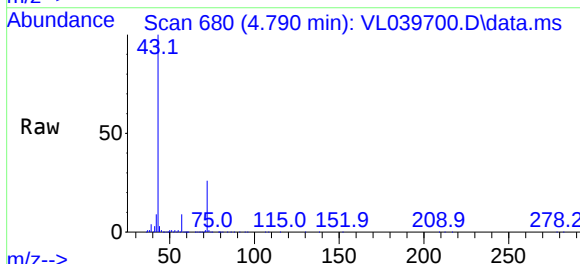
Instrument :
MSVOA_L
ClientSampleId :
SVP-01

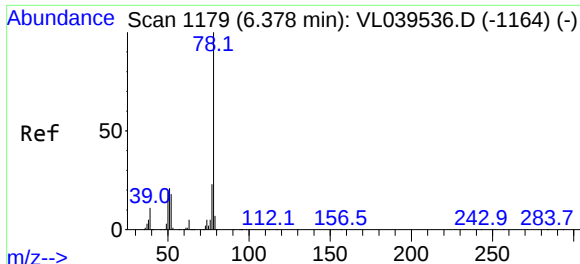
Tgt Ion:114 Resp: 2980929
Ion Ratio Lower Upper
114 100
63 25.1 20.2 30.4
88 18.3 14.5 21.7



#34
2-Butanone
Concen: 68.202 ppbv
RT: 4.790 min Scan# 680
Delta R.T. -0.012 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

Tgt Ion: 43 Resp: 9986078
Ion Ratio Lower Upper
43 100
72 23.2 17.9 26.9



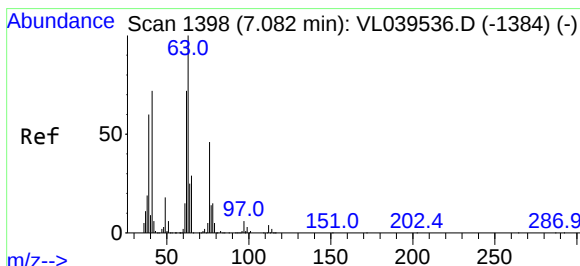
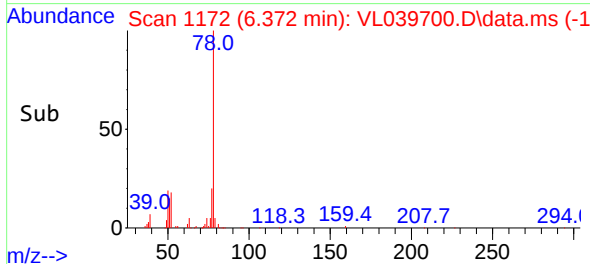
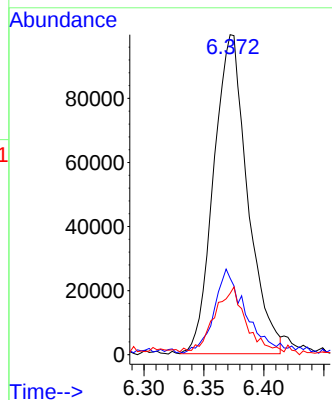
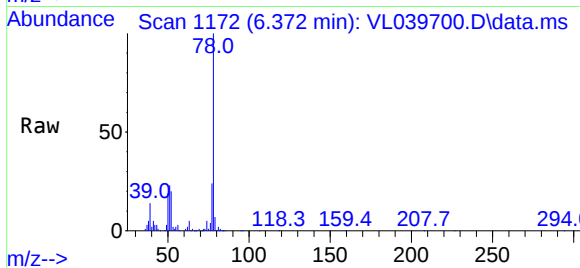


#36
Benzene
Concen: 0.860 ppbv
RT: 6.372 min Scan# 1179
Delta R.T. -0.006 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

Instrument :
MSVOA_L
ClientSampleId :
SVP-01

Tgt Ion: 78 Resp: 195963

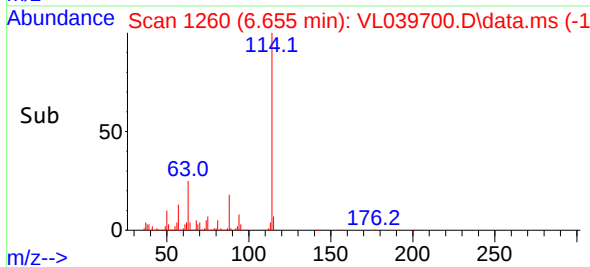
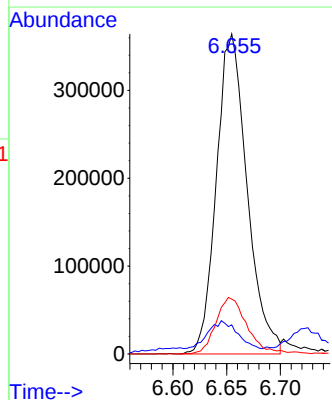
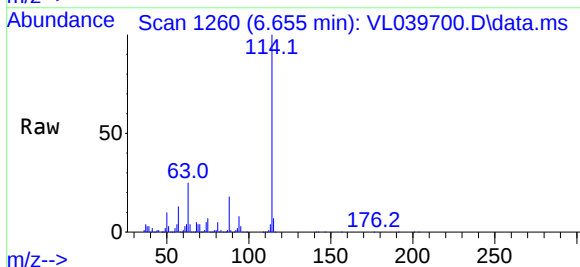
Ion	Ratio	Lower	Upper
78	100		
77	23.0	20.3	30.5
50	18.3	15.5	23.3

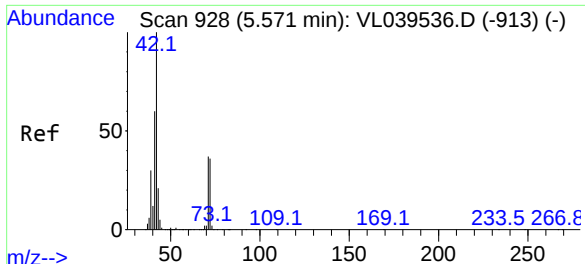


#39
1,2-Dichloropropane
Concen: 8.201 ppbv
RT: 6.655 min Scan# 1260
Delta R.T. -0.427 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

Tgt Ion: 63 Resp: 721686

Ion	Ratio	Lower	Upper
63	100		
41	7.2	59.6	89.4#
62	17.1	51.4	77.0#

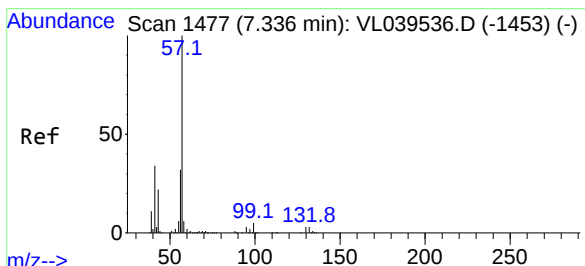
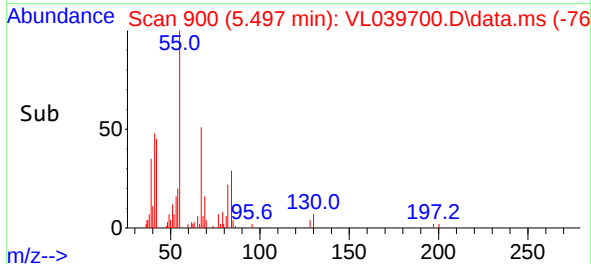
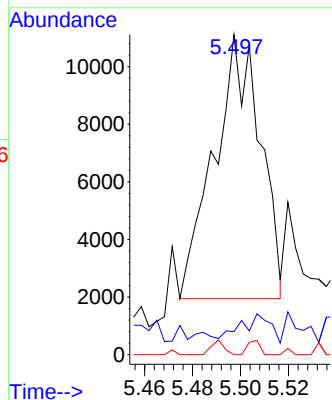
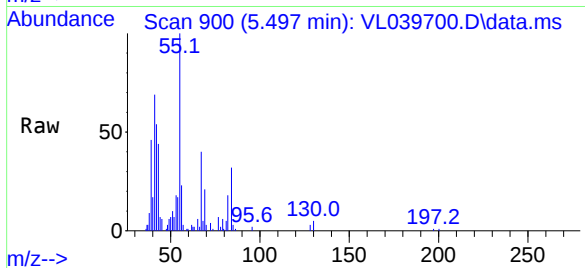




#41
Tetrahydrofuran
Concen: 0.136 ppbv
RT: 5.497 min Scan# 90
Delta R.T. -0.073 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

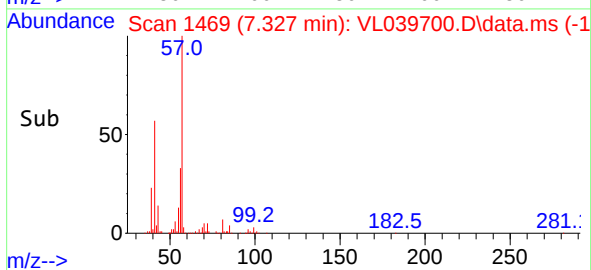
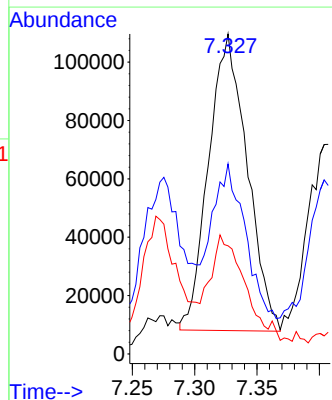
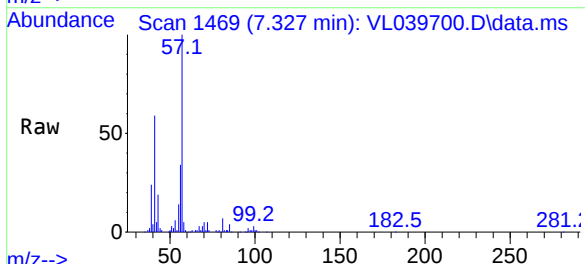
Instrument :
MSVOA_L
ClientSampleId :
SVP-01

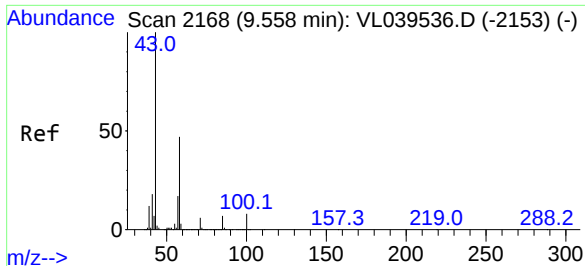
Tgt Ion: 42 Resp: 12248
Ion Ratio Lower Upper
42 100
72 22.3 31.8 47.8#
71 0.0 31.8 47.8#



#44
2,2,4-Trimethylpentane
Concen: 0.556 ppbv
RT: 7.327 min Scan# 1469
Delta R.T. -0.009 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

Tgt Ion: 57 Resp: 218313
Ion Ratio Lower Upper
57 100
41 64.8 27.4 41.2#
56 40.4 24.5 36.7#

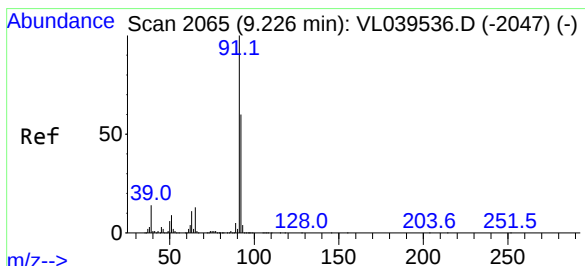
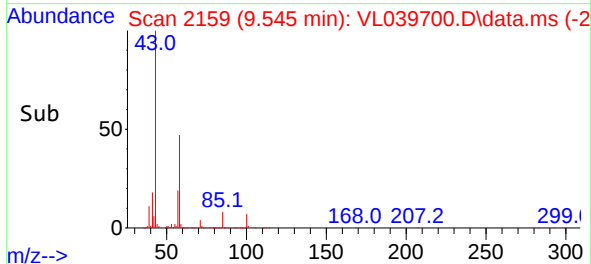
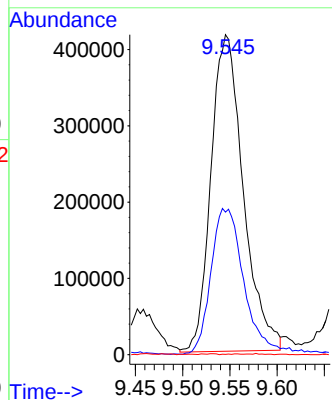
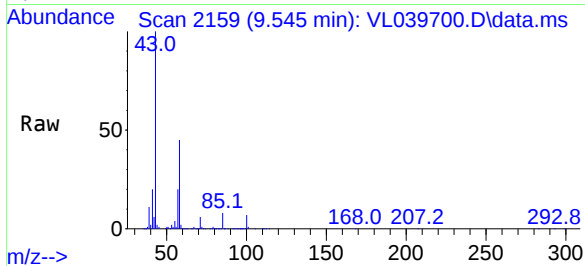




#51
2-Hexanone
Concen: 5.795 ppbv
RT: 9.545 min Scan# 2168
Delta R.T. -0.012 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

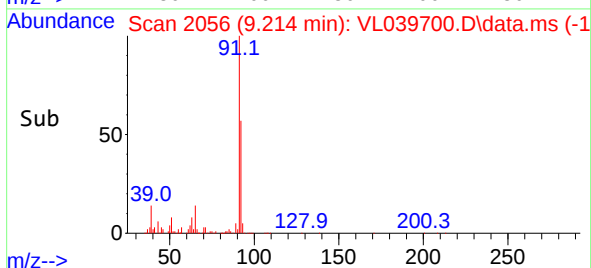
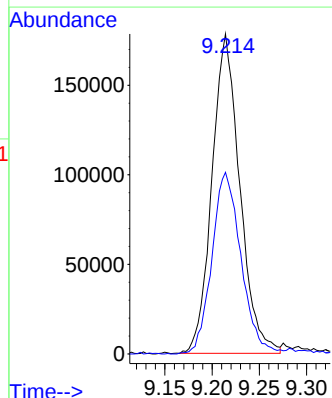
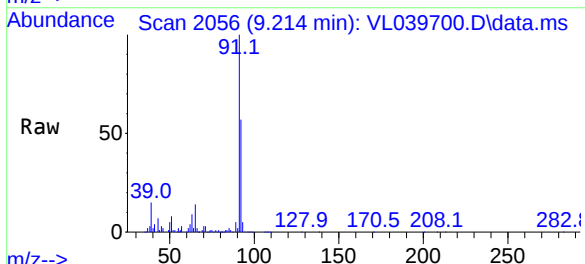
Instrument : MSVOA_L
ClientSampleId : SVP-01

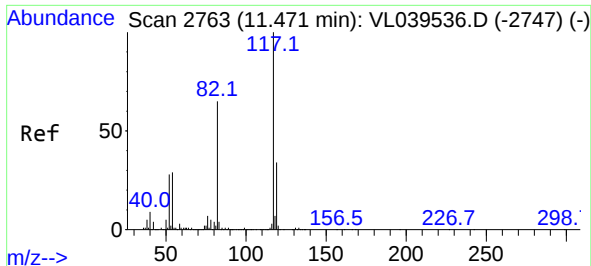
Tgt Ion: 43 Resp: 987009
Ion Ratio Lower Upper
43 100
58 48.3 38.4 57.6
98 0.2 0.3 0.5#



#53
Toluene
Concen: 1.441 ppbv
RT: 9.214 min Scan# 2056
Delta R.T. -0.012 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

Tgt Ion: 91 Resp: 365134
Ion Ratio Lower Upper
91 100
92 61.1 48.2 72.2

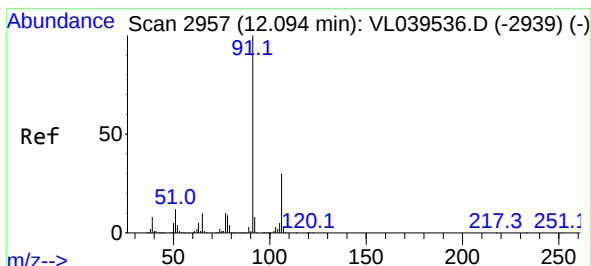
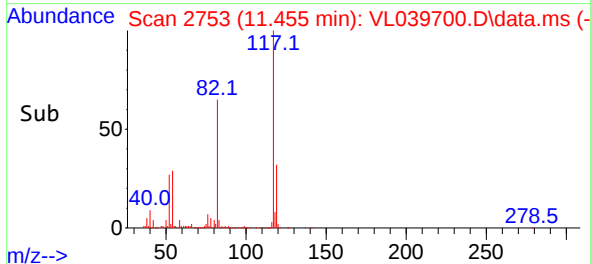
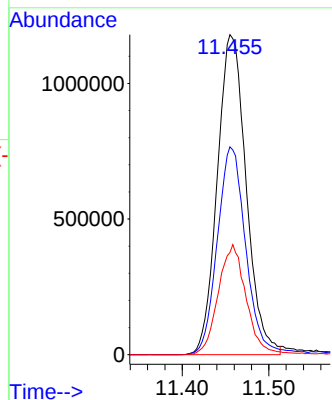
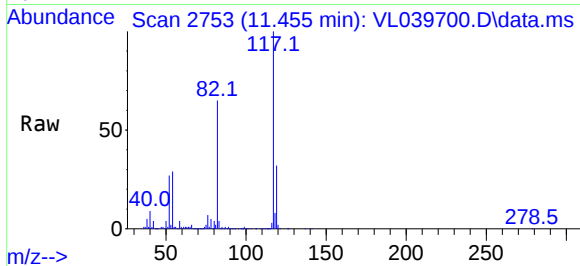




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.455 min Scan# 21
Delta R.T. -0.015 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

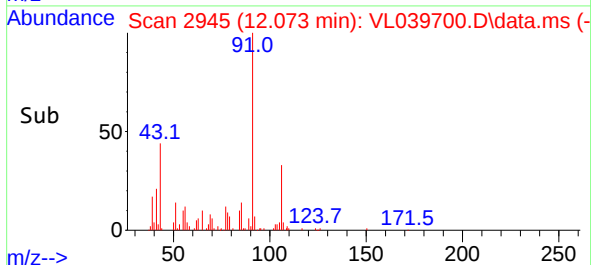
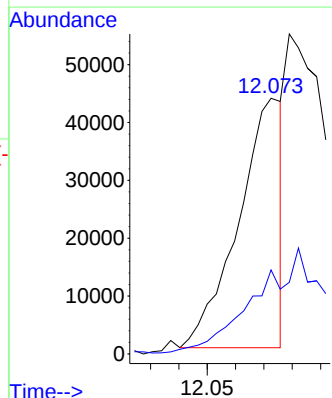
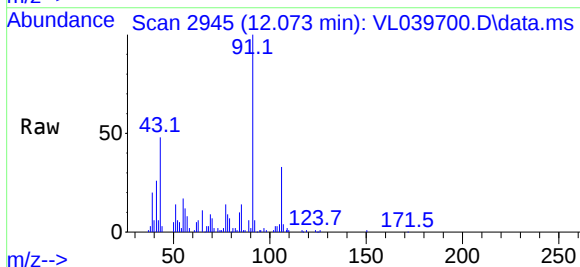
Instrument :
MSVOA_L
ClientSampleId :
SVP-01

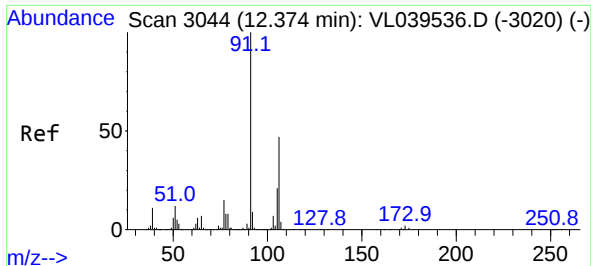
Tgt Ion:117 Resp: 2732959
Ion Ratio Lower Upper
117 100
82 65.5 50.8 76.2
119 33.6 24.1 36.1



#58
Ethyl Benzene
Concen: 0.147 ppbv
RT: 12.073 min Scan# 2945
Delta R.T. -0.022 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

Tgt Ion: 91 Resp: 46425
Ion Ratio Lower Upper
91 100
106 31.9 25.4 38.0

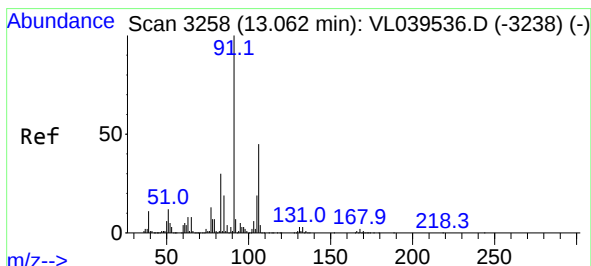
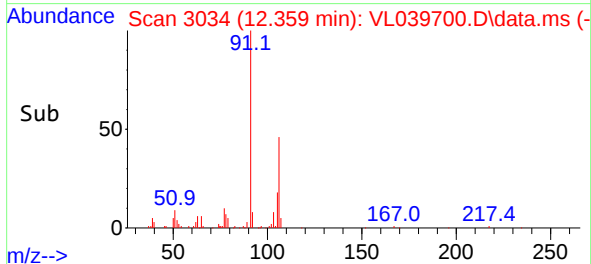
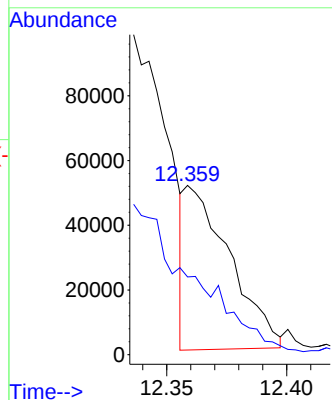
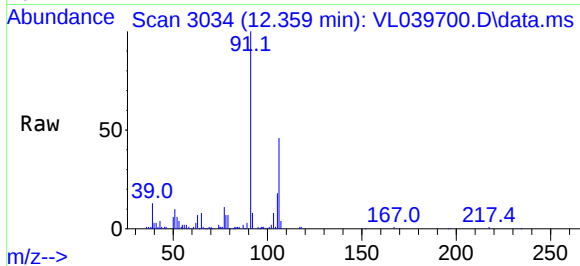




#59
m/p-Xylene
Concen: 0.235 ppbv
RT: 12.359 min Scan# 3044
Delta R.T. -0.015 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

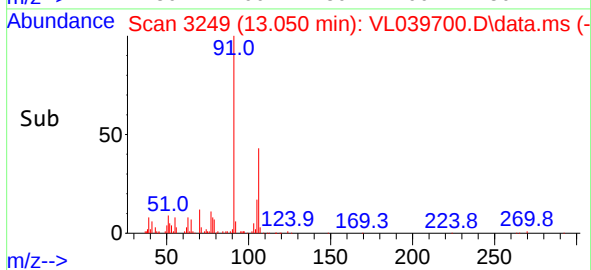
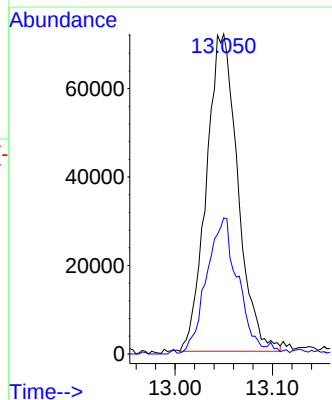
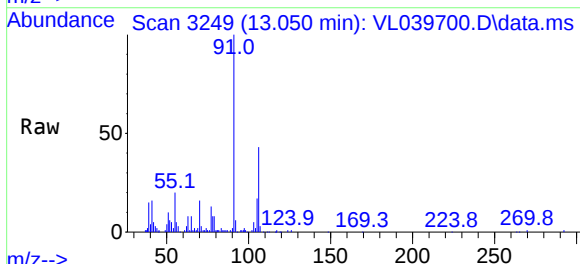
Instrument :
MSVOA_L
ClientSampleId :
SVP-01

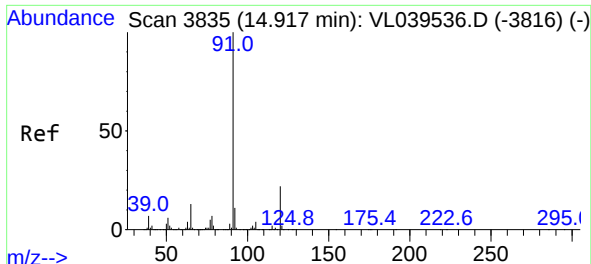
Tgt Ion: 91 Resp: 65992
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#



#60
o-Xylene
Concen: 0.600 ppbv
RT: 13.050 min Scan# 3249
Delta R.T. -0.012 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

Tgt Ion: 91 Resp: 160751
Ion Ratio Lower Upper
91 100
106 45.2 22.4 67.3

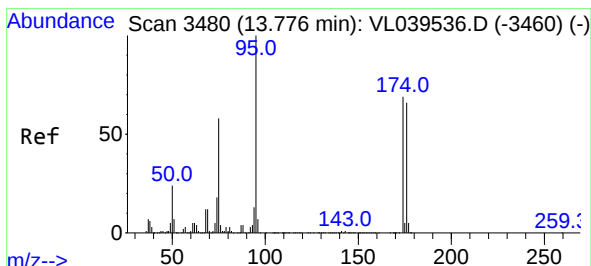
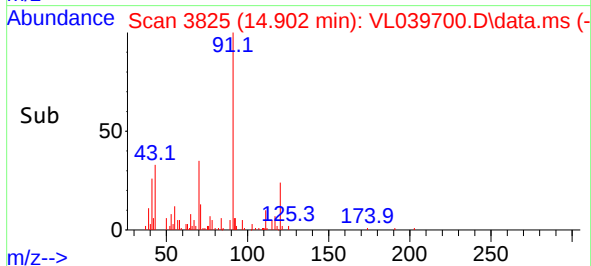
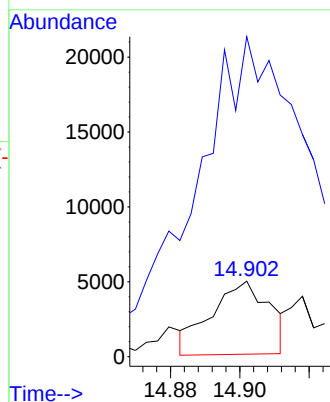
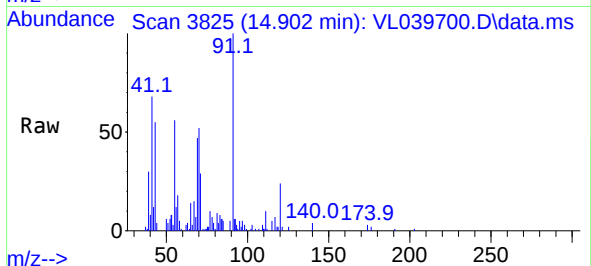




#64
n-propylbenzene
Concen: 0.055 ppbv
RT: 14.902 min Scan# 31
Delta R.T. -0.015 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

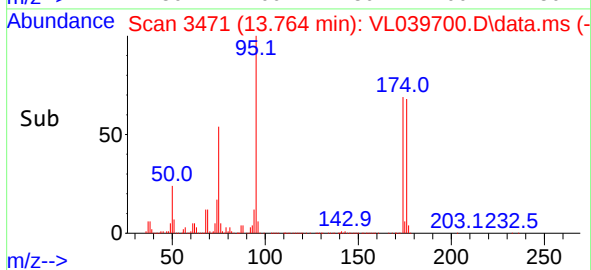
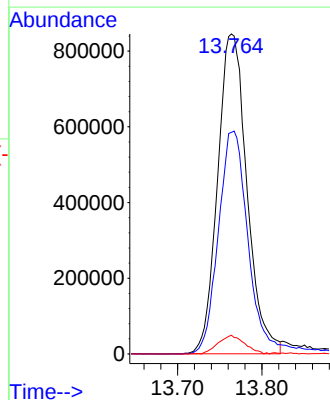
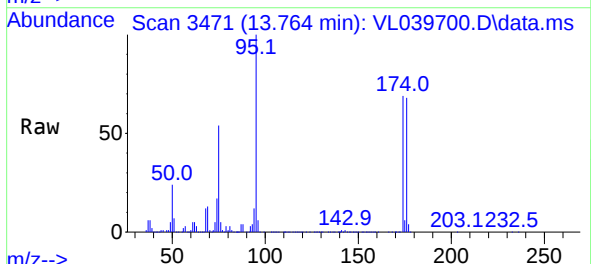
Instrument :
MSVOA_L
ClientSampleId :
SVP-01

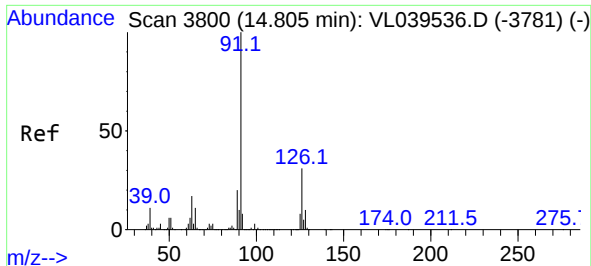
Tgt Ion:120 Resp: 5703
Ion Ratio Lower Upper
120 100
91 1002.3 367.2 550.8#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.015 ppbv
RT: 13.764 min Scan# 3471
Delta R.T. -0.012 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

Tgt Ion: 95 Resp: 2043255
Ion Ratio Lower Upper
95 100
174 74.0 55.9 83.9
175 5.4 4.2 6.4

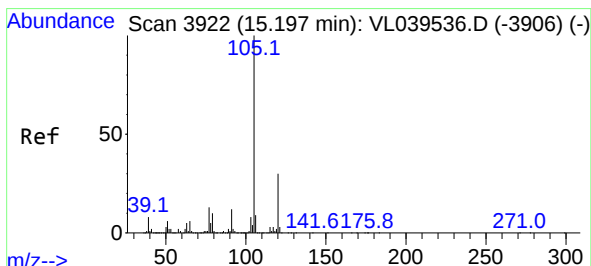
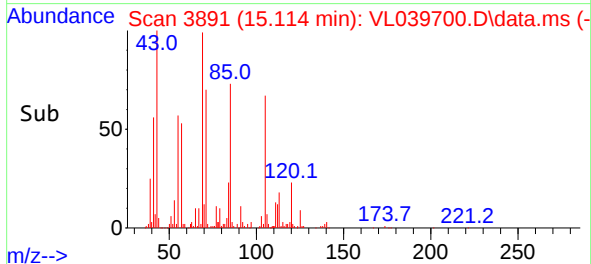
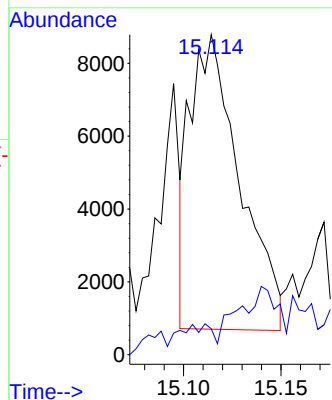
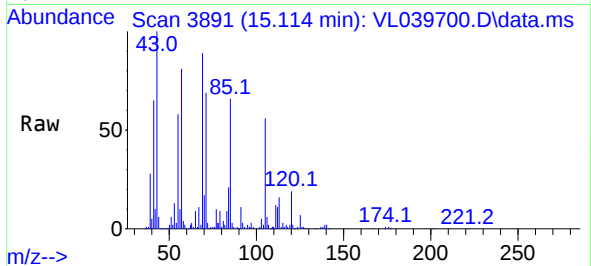




#71
2-Chlorotoluene
Concen: 0.050 ppbv
RT: 15.114 min Scan# 3891
Delta R.T. 0.309 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

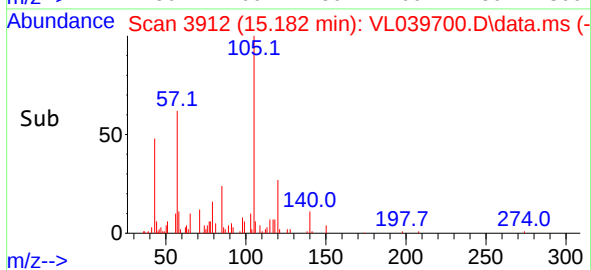
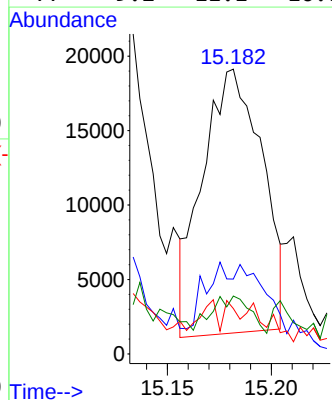
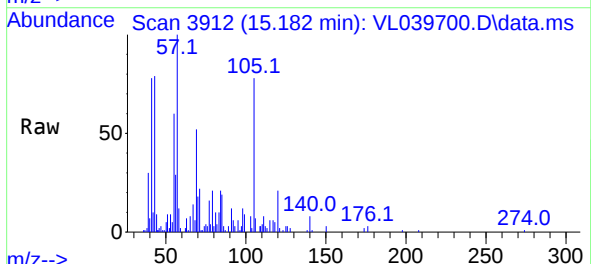
Instrument :
MSVOA_L
ClientSampleId :
SVP-01

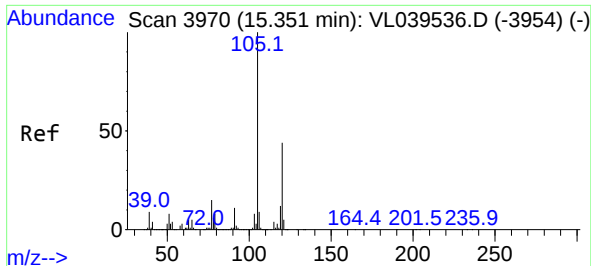
Tgt Ion: 91 Resp: 14431
Ion Ratio Lower Upper
91 100
126 43.8 13.0 51.8



#72
4-Ethyltoluene
Concen: 0.116 ppbv
RT: 15.182 min Scan# 3912
Delta R.T. -0.015 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

Tgt Ion: 105 Resp: 35416
Ion Ratio Lower Upper
105 100
120 41.3 24.2 36.2#
91 21.2 10.2 15.4#
77 9.2 11.1 16.7#

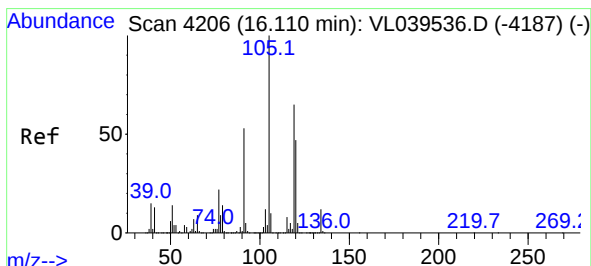
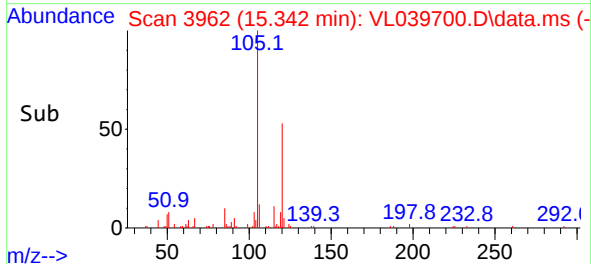
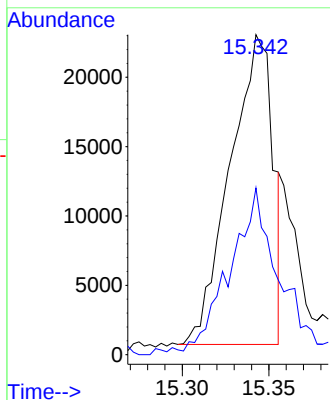
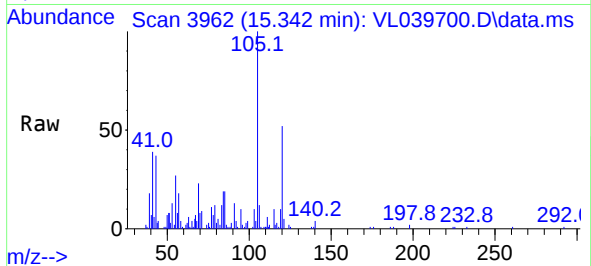




#73
 1,3,5-Trimethylbenzene
 Concen: 0.137 ppbv
 RT: 15.342 min Scan# 3970
 Delta R.T. -0.009 min
 Lab File: VL039700.D
 Acq: 10 Oct 2022 18:17

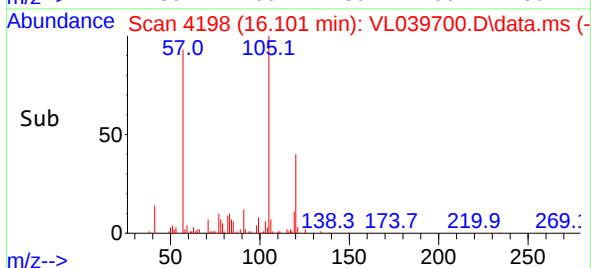
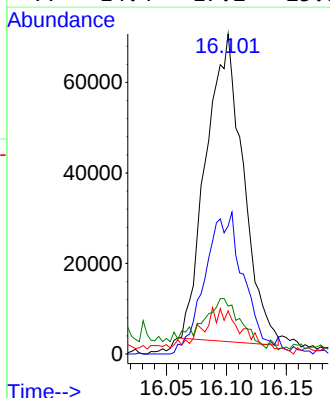
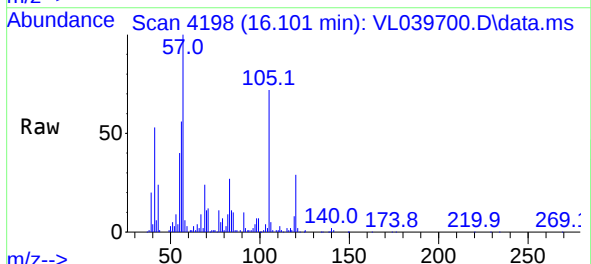
Instrument :
 MSVOA_L
 ClientSampleId :
 SVP-01

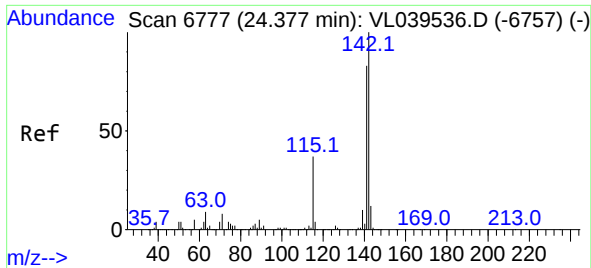
Tgt Ion:105 Resp: 38322
 Ion Ratio Lower Upper
 105 100
 120 52.3 38.2 57.4



#74
 1,2,4-Trimethylbenzene
 Concen: 0.465 ppbv
 RT: 16.101 min Scan# 4198
 Delta R.T. -0.009 min
 Lab File: VL039700.D
 Acq: 10 Oct 2022 18:17

Tgt Ion:105 Resp: 145825
 Ion Ratio Lower Upper
 105 100
 120 38.3 39.5 59.3#
 91 12.4 39.2 58.8#
 77 14.4 17.2 25.8#





#80
Naphthalene, 2-methyl-
Concen: 0.032 ppbv
RT: 24.361 min Scan# 61
Delta R.T. -0.015 min
Lab File: VL039700.D
Acq: 10 Oct 2022 18:17

Instrument :
MSVOA_L
ClientSampleId :
SVP-01

Tgt Ion:	142	Resp:	2463
Ion	Ratio	Lower	Upper
142	100		
141	101.7	68.9	103.3
115	51.2	30.0	45.0

