

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101022\
 Data File : VL039699.D
 Acq On : 10 Oct 2022 17:36
 Operator : SY/AP
 Sample : N5040-01 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1010ABS01

Quant Time: Oct 11 07:19:03 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)

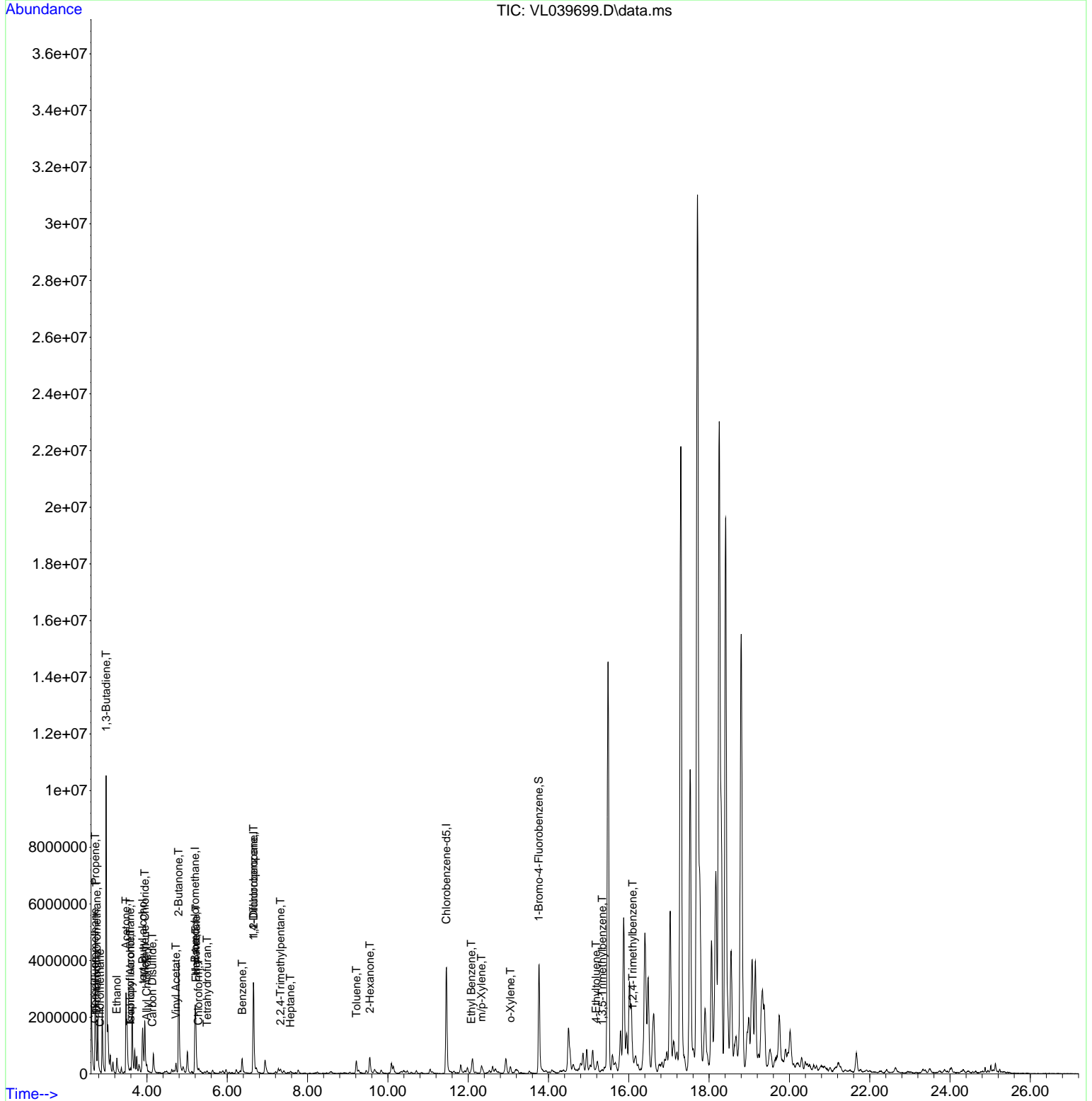
Internal Standards						
1) Bromochloromethane	5.198	49	980087	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2466302	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.455	117	2512960	10.000	ppbv	-0.02
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	1878623	10.014	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.100%
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	2.748	85	13014	0.115	ppbv	91
3) Chlorodifluoromethane	2.693	51	16108	0.138	ppbv	100
4) Chloromethane	2.828	50	7703	0.110	ppbv	92
9) Propene	2.713	41	2462051	46.349	ppbv	94
10) Heptane	7.574	43	18421	0.149	ppbv #	53
11) Trichlorofluoromethane	3.581	101	15397	0.109	ppbv	98
13) Ethanol	3.250	45	608835	150.425	ppbv	74
15) Acetone	3.478	43	3165390	29.025	ppbv #	39
16) 1,3-Butadiene	2.983	39	3618994	65.414	ppbv #	19
17) tert-Butyl alcohol	3.893	59	1325940	13.548	ppbv	99
19) Isopropyl Alcohol	3.591	45	47160	0.848	ppbv #	1
20) Methylene Chloride	3.947	84	616170	12.220	ppbv	95
21) Allyl Chloride	3.996	41	22369	0.301	ppbv #	1
23) Vinyl Acetate	4.722	43	82424	1.672	ppbv #	1
25) Ethyl Acetate	5.221	43	362468	1.524	ppbv #	76
26) Hexane	5.217	57	513033	5.084	ppbv #	39
27) Carbon Disulfide	4.137	76	33082	0.312	ppbv #	81
29) Chloroform	5.282	83	14522	0.100	ppbv	96
34) 2-Butanone	4.790	43	4978828	41.099	ppbv	98
36) Benzene	6.372	78	212220	1.125	ppbv	96
39) 1,2-Dichloropropane	6.651	63	600162	8.243	ppbv #	28
41) Tetrahydrofuran	5.500	42	10050	0.135	ppbv #	72
44) 2,2,4-Trimethylpentane	7.327	57	51809	0.159	ppbv #	1
51) 2-Hexanone	9.552	43	525692	3.731	ppbv #	99
53) Toluene	9.217	91	340345	1.623	ppbv	96
58) Ethyl Benzene	12.079	91	108963	0.376	ppbv	99
59) m/p-Xylene	12.330	91	271405	1.053	ppbv	96
60) o-Xylene	13.053	91	146745	0.596	ppbv	98
72) 4-Ethyltoluene	15.185	105	50791	0.181	ppbv #	96
73) 1,3,5-Trimethylbenzene	15.342	105	50565	0.197	ppbv #	81
74) 1,2,4-Trimethylbenzene	16.098	105	191069	0.663	ppbv #	70

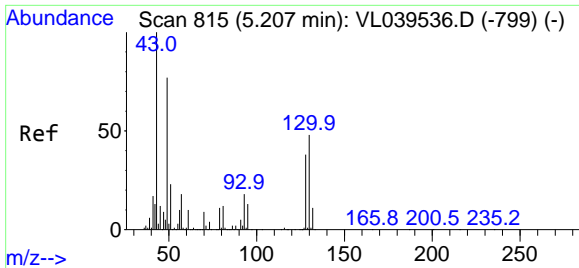
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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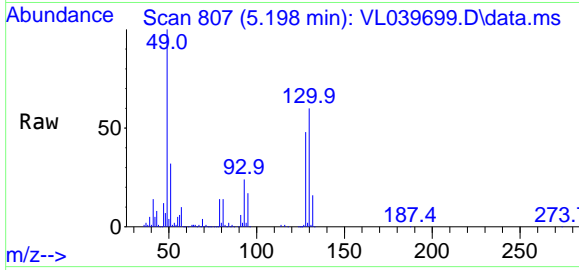
Quant Time: Oct 11 07:19:03 2022
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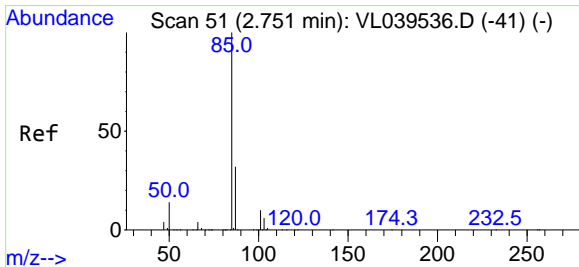
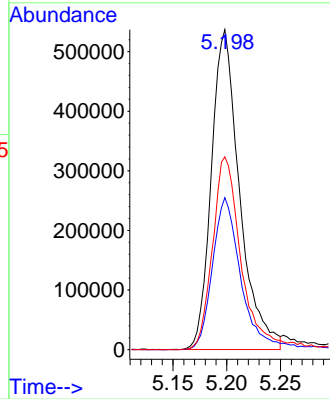
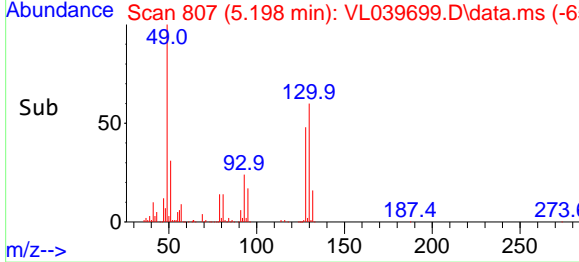


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.198 min Scan# 80
 Delta R.T. -0.009 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

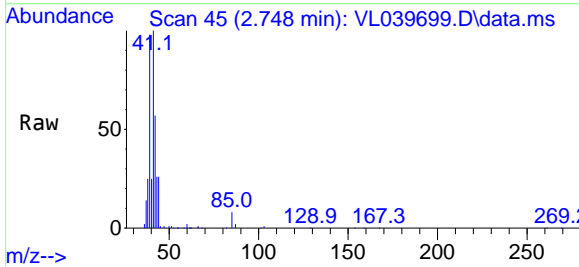
Instrument :
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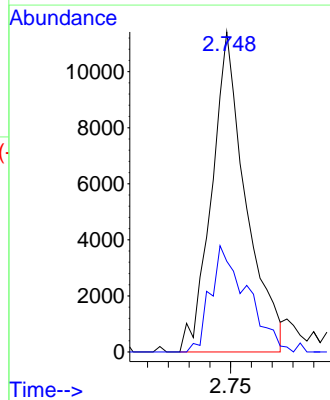
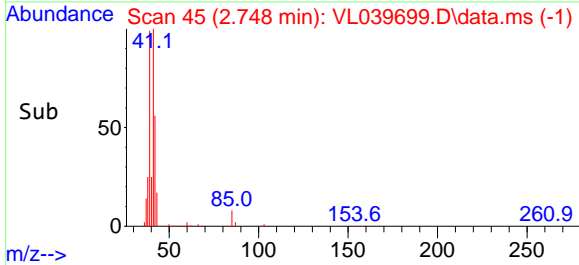
Tgt Ion: 49 Resp: 980087
 Ion Ratio Lower Upper
 49 100
 128 49.8 26.7 80.0
 130 63.5 34.3 102.8

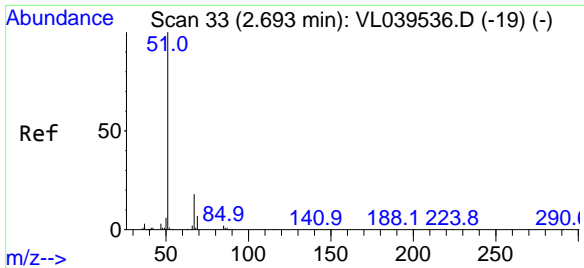


#2
 Dichlorodifluoromethane
 Concen: 0.115 ppbv
 RT: 2.748 min Scan# 45
 Delta R.T. -0.003 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36



Tgt Ion: 85 Resp: 13014
 Ion Ratio Lower Upper
 85 100
 87 28.3 26.7 40.1

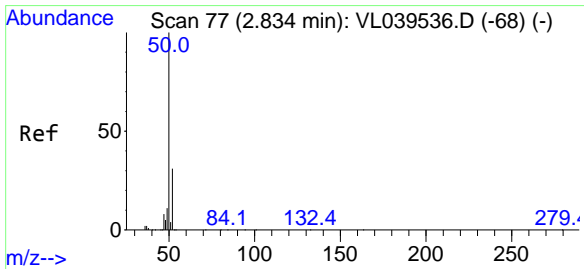
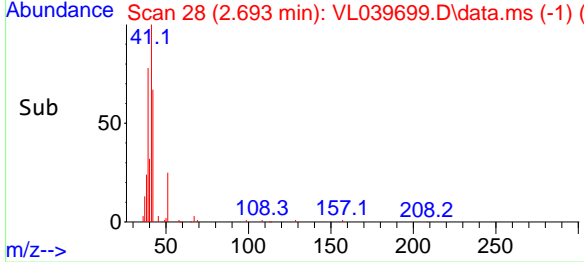
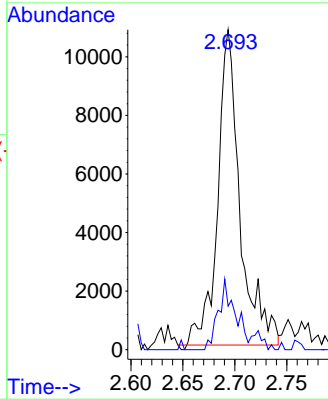
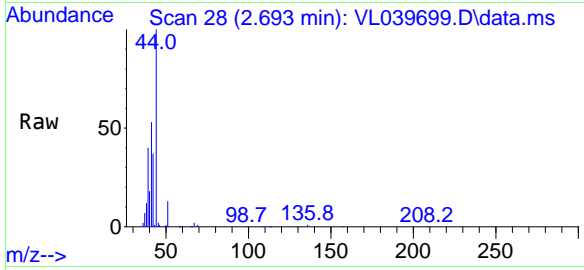




#3
 Chlorodifluoromethane
 Concen: 0.138 ppbv
 RT: 2.693 min Scan# 21
 Delta R.T. 0.001 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

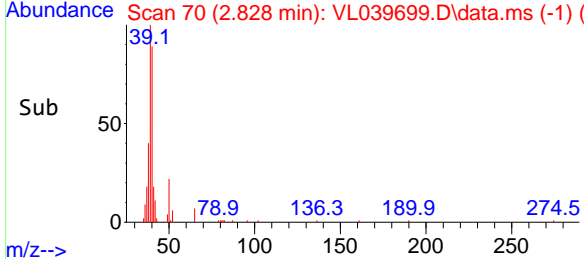
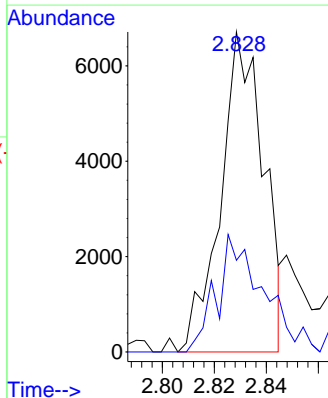
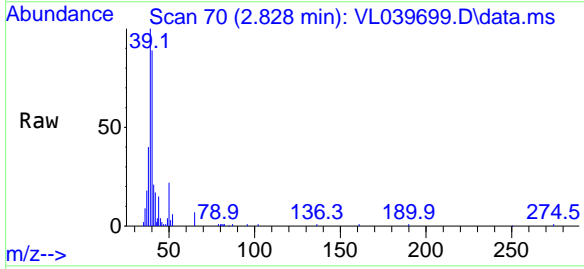
Instrument : MSVOA_L
 ClientSampleId : VL1010ABS01

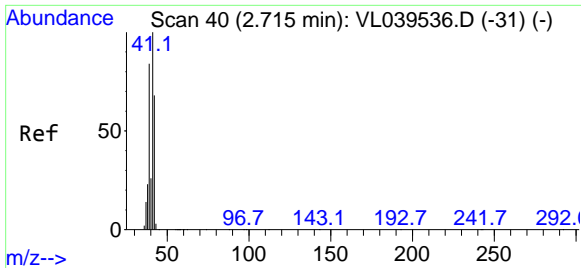
Tgt Ion: 51 Resp: 16108
 Ion Ratio Lower Upper
 51 100
 67 19.7 15.7 23.5



#4
 Chloromethane
 Concen: 0.110 ppbv
 RT: 2.828 min Scan# 70
 Delta R.T. -0.006 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

Tgt Ion: 50 Resp: 7703
 Ion Ratio Lower Upper
 50 100
 52 28.7 26.5 39.7

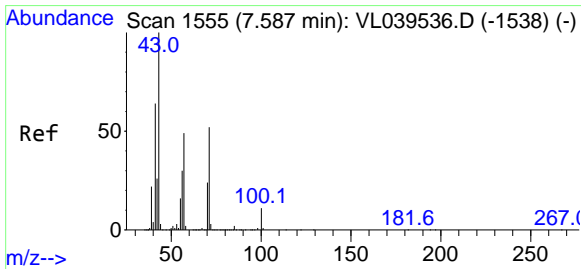
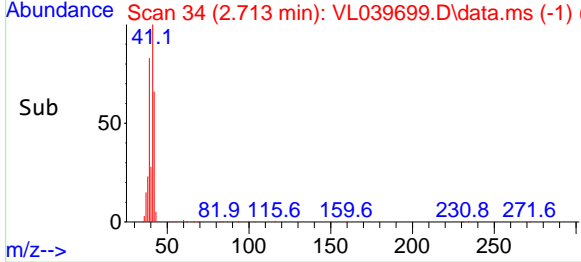
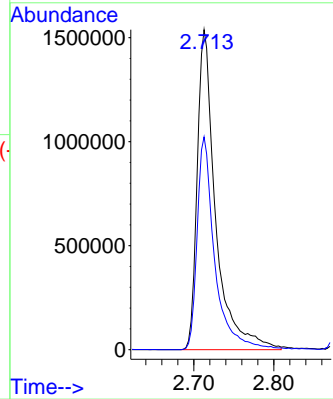
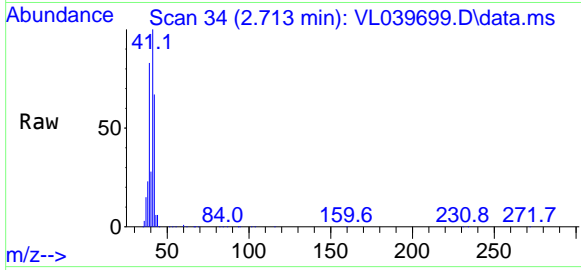




#9
 Propene
 Concen: 46.349 ppbv
 RT: 2.713 min Scan# 34
 Delta R.T. -0.003 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

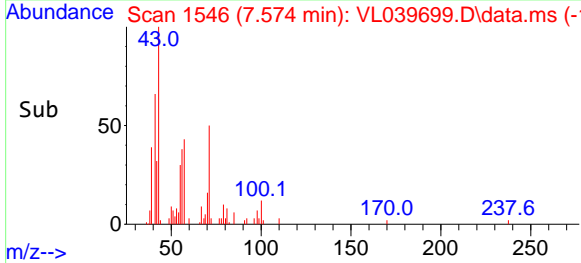
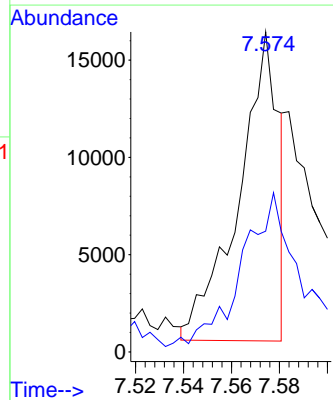
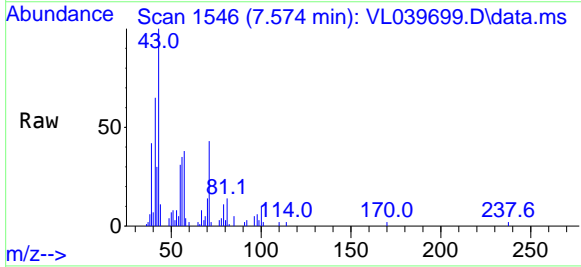
Instrument :
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 ClientSampleId :
 VL1010ABS01

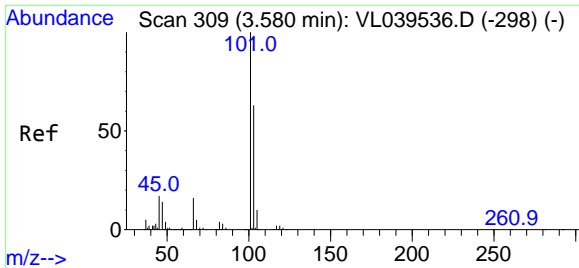
Tgt Ion: 41 Resp: 2462051
 Ion Ratio Lower Upper
 41 100
 42 64.1 55.2 82.8



#10
 Heptane
 Concen: 0.149 ppbv
 RT: 7.574 min Scan# 1546
 Delta R.T. -0.012 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

Tgt Ion: 43 Resp: 18421
 Ion Ratio Lower Upper
 43 100
 57 83.2 40.5 60.7#

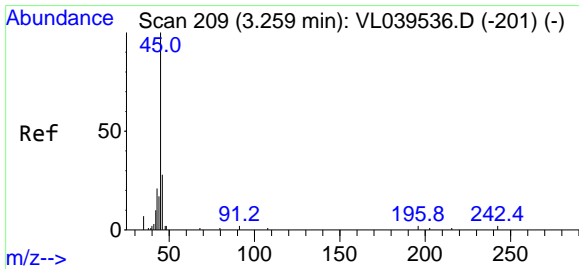
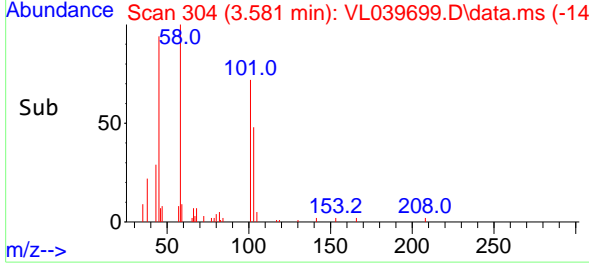
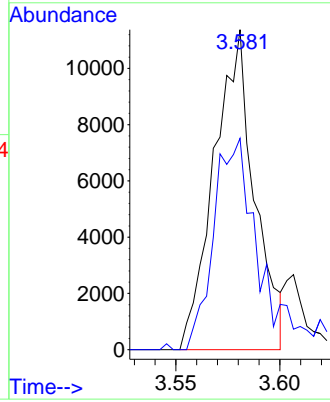
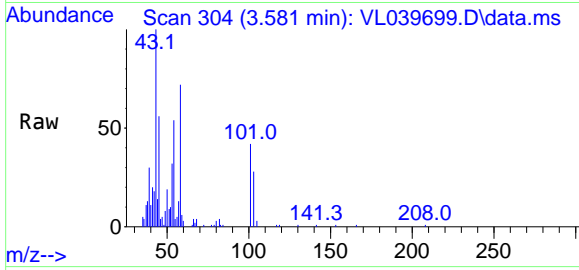




#11
 Trichlorofluoromethane
 Concen: 0.109 ppbv
 RT: 3.581 min Scan# 309
 Delta R.T. 0.001 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

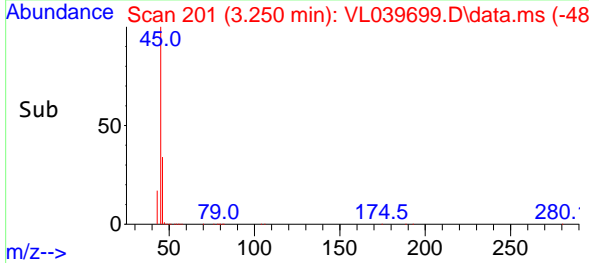
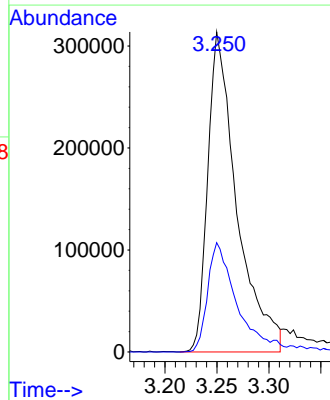
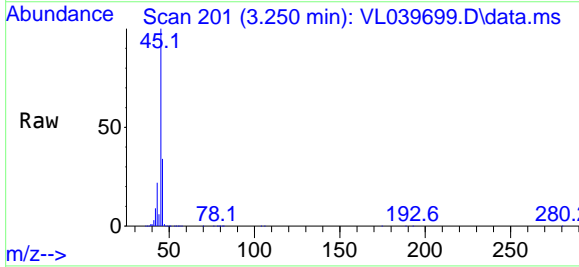
Instrument :
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 ClientSampleId :
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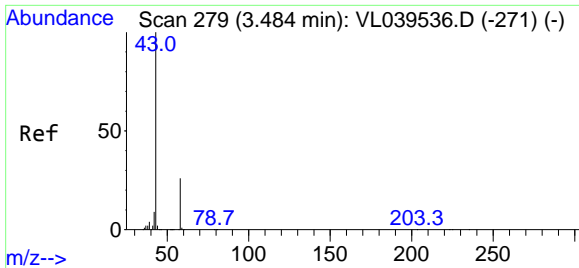
Tgt Ion:101 Resp: 15397
 Ion Ratio Lower Upper
 101 100
 103 66.1 51.8 77.8



#13
 Ethanol
 Concen: 150.425 ppbv
 RT: 3.250 min Scan# 201
 Delta R.T. -0.009 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

Tgt Ion: 45 Resp: 608835
 Ion Ratio Lower Upper
 45 100
 46 37.5 22.8 91.2

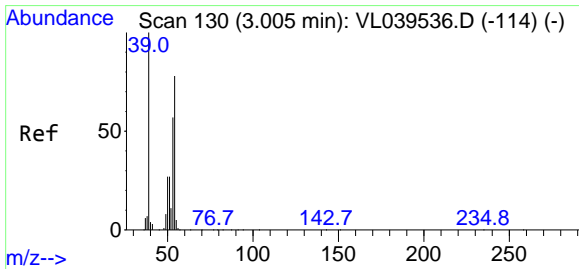
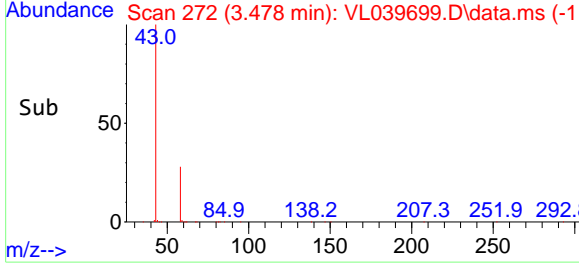
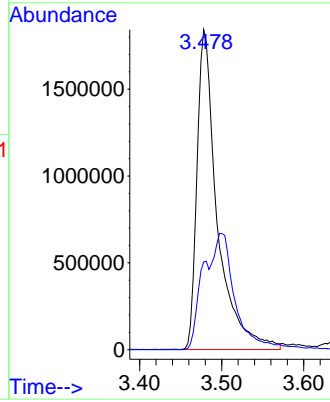
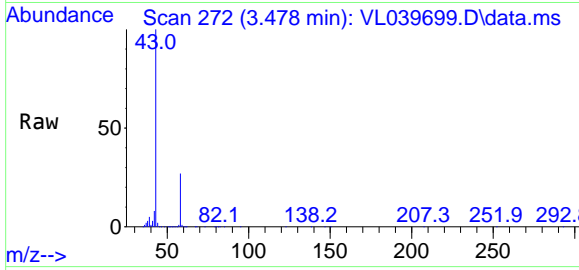




#15
 Acetone
 Concen: 29.025 ppbv
 RT: 3.478 min Scan# 21
 Delta R.T. -0.006 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

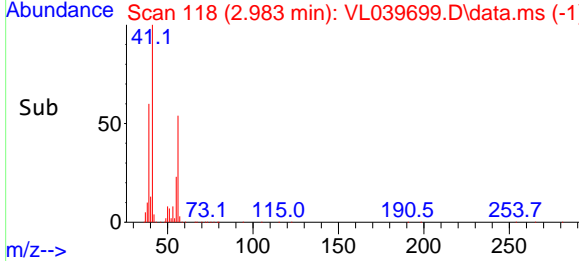
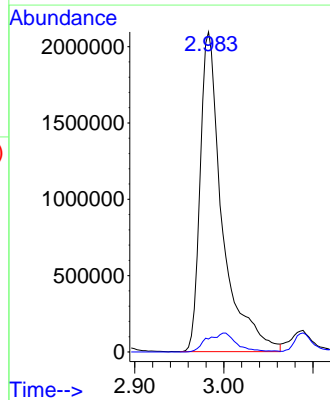
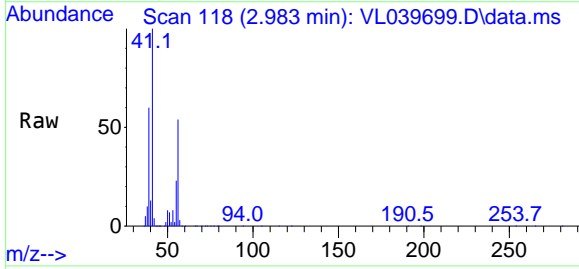
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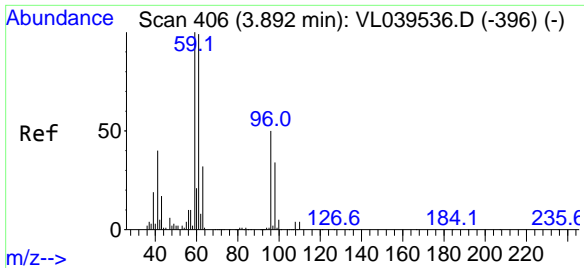
Tgt Ion: 43 Resp: 3165390
 Ion Ratio Lower Upper
 43 100
 58 57.7 21.0 31.6#



#16
 1,3-Butadiene
 Concen: 65.414 ppbv
 RT: 2.983 min Scan# 118
 Delta R.T. -0.022 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

Tgt Ion: 39 Resp: 3618994
 Ion Ratio Lower Upper
 39 100
 54 8.0 63.7 95.5#

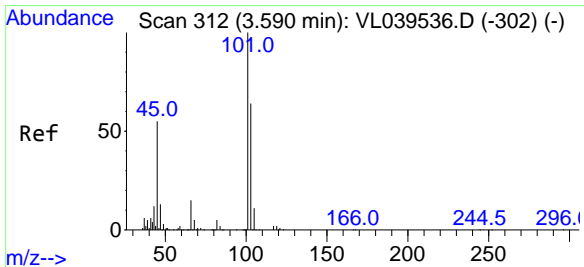
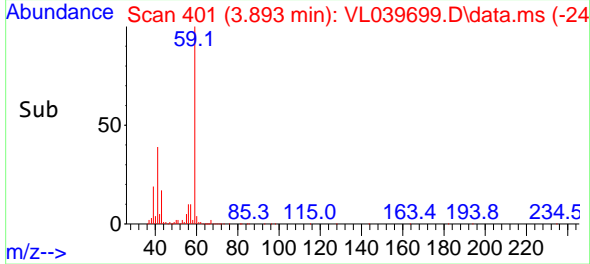
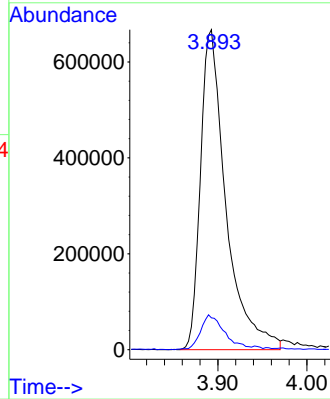
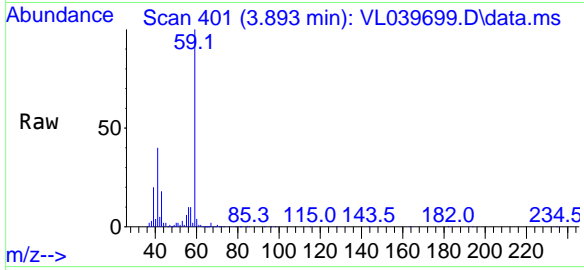




#17
 tert-Butyl alcohol
 Concen: 13.548 ppbv
 RT: 3.893 min Scan# 406
 Delta R.T. 0.001 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

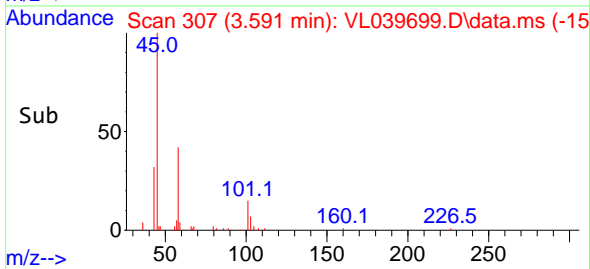
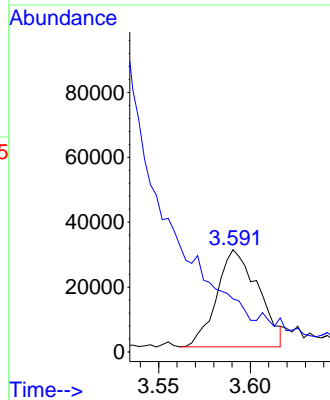
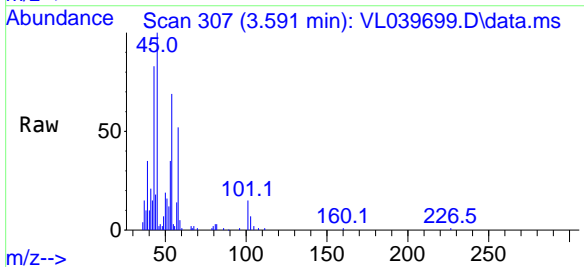
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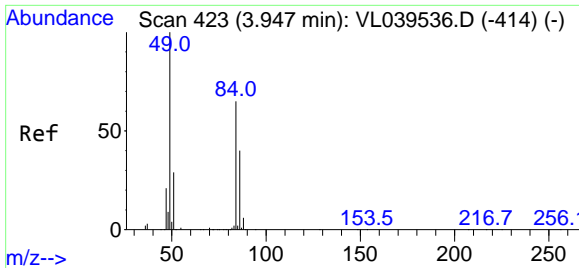
Tgt Ion: 59 Resp: 1325940
 Ion Ratio Lower Upper
 59 100
 57 11.3 8.7 13.1



#19
 Isopropyl Alcohol
 Concen: 0.848 ppbv
 RT: 3.591 min Scan# 307
 Delta R.T. 0.001 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

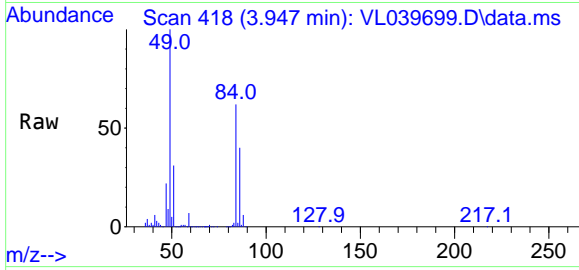
Tgt Ion: 45 Resp: 47160
 Ion Ratio Lower Upper
 45 100
 58 3871.8 3.2 4.8#





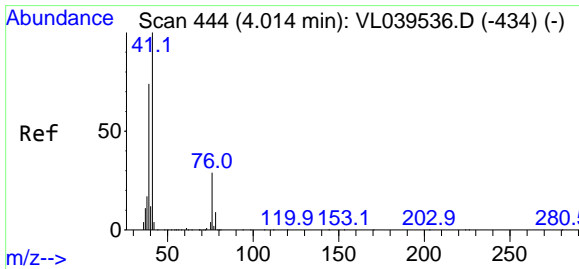
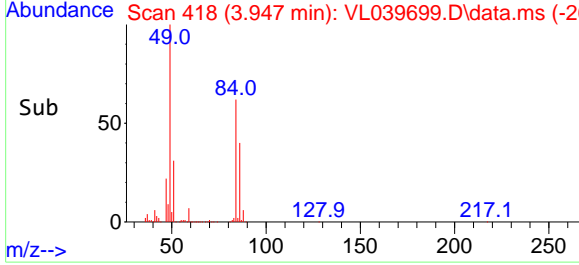
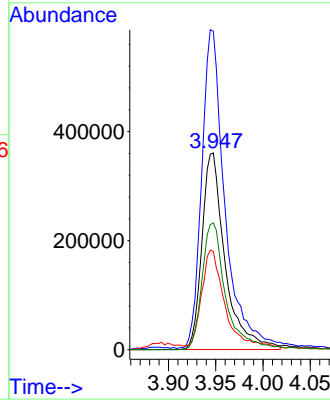
#20
 Methylene Chloride
 Concen: 12.220 ppbv
 RT: 3.947 min Scan# 411
 Delta R.T. 0.001 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1010ABS01



Tgt Ion: 84 Resp: 616170

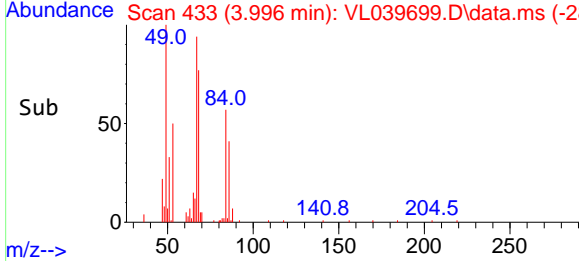
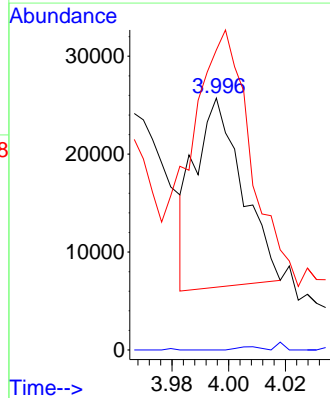
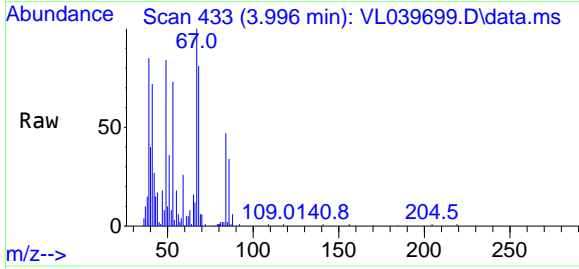
Ion	Ratio	Lower	Upper
84	100		
49	161.0	123.1	184.7
51	48.7	34.4	51.6
86	64.4	51.1	76.7

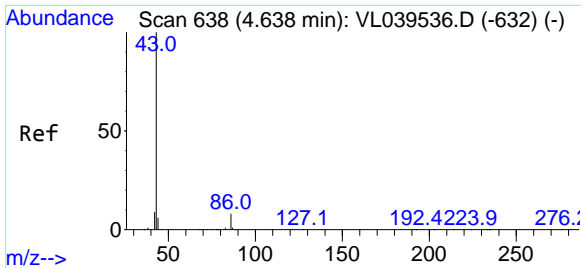


#21
 Allyl Chloride
 Concen: 0.301 ppbv
 RT: 3.996 min Scan# 433
 Delta R.T. -0.019 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

Tgt Ion: 41 Resp: 22369

Ion	Ratio	Lower	Upper
41	100		
76	0.0	24.4	36.6#
39	380.6	63.5	95.3#



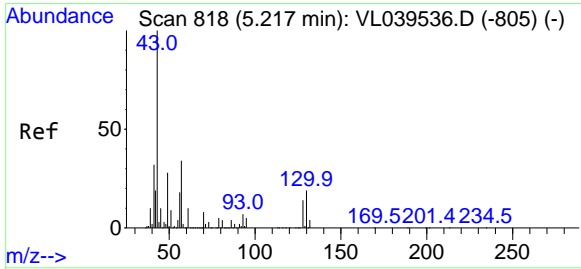
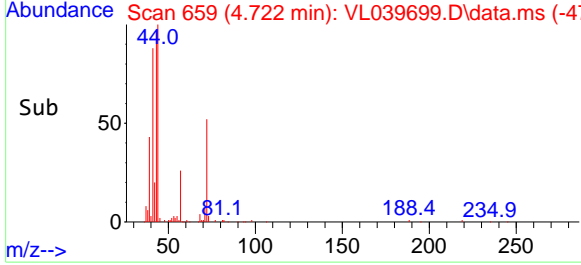
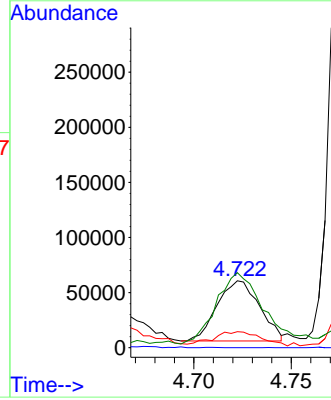
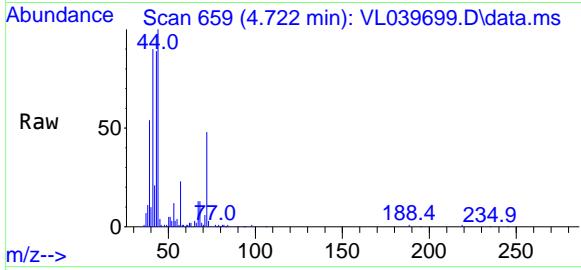


#23
 Vinyl Acetate
 Concen: 1.672 ppbv
 RT: 4.722 min Scan# 61
 Delta R.T. 0.084 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1010ABS01

Tgt Ion: 43 Resp: 82424

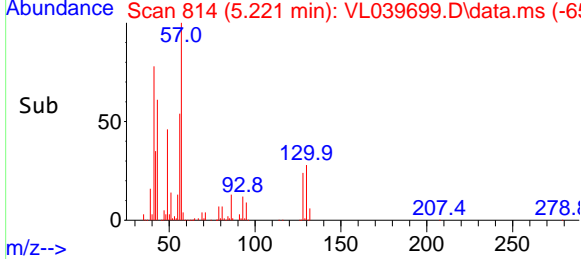
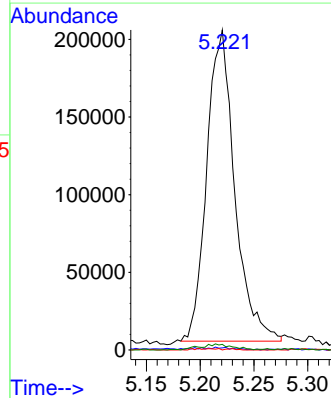
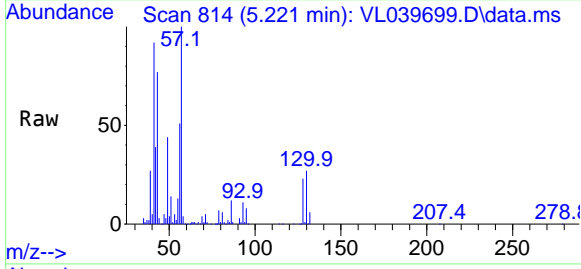
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.0	7.6#
42	20.1	7.7	11.5#
44	118.6	4.6	7.0#

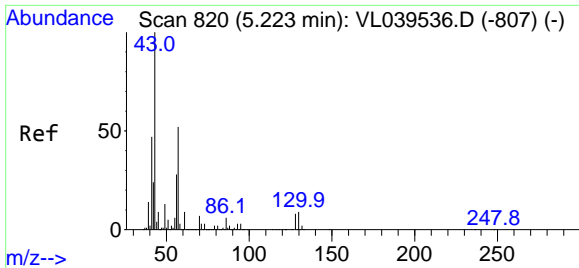


#25
 Ethyl Acetate
 Concen: 1.524 ppbv
 RT: 5.221 min Scan# 814
 Delta R.T. 0.004 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

Tgt Ion: 43 Resp: 362468

Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.2	12.4#
61	0.5	8.3	12.5#
70	2.4	5.9	8.9#



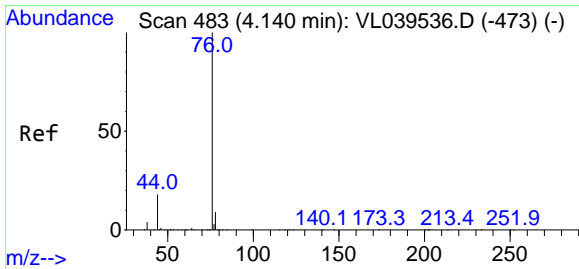
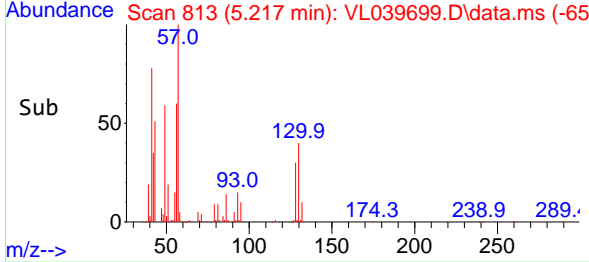
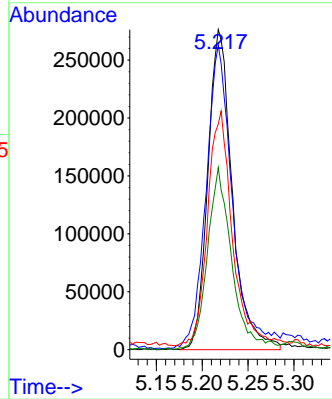
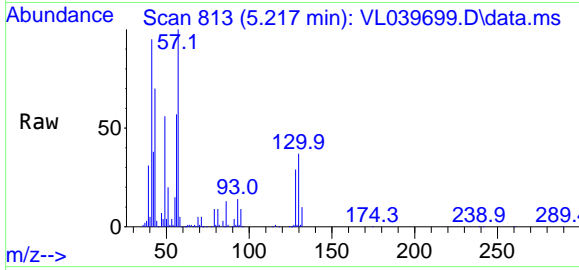


#26
 Hexane
 Concen: 5.084 ppbv
 RT: 5.217 min Scan# 81
 Delta R.T. -0.006 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1010ABS01

Tgt Ion: 57 Resp: 513033

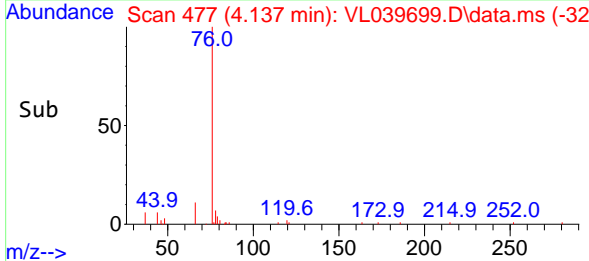
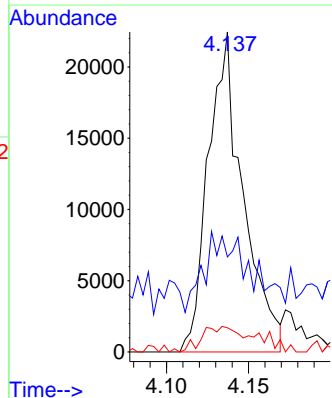
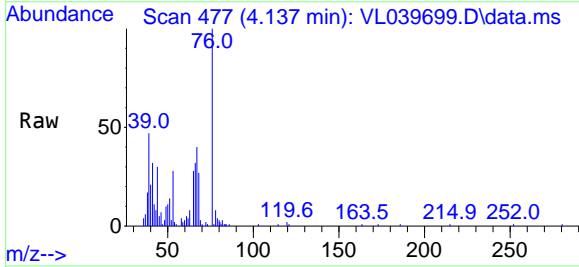
Ion	Ratio	Lower	Upper
57	100		
41	102.3	76.9	115.3
43	75.2	191.0	286.6#
56	56.9	43.2	64.8

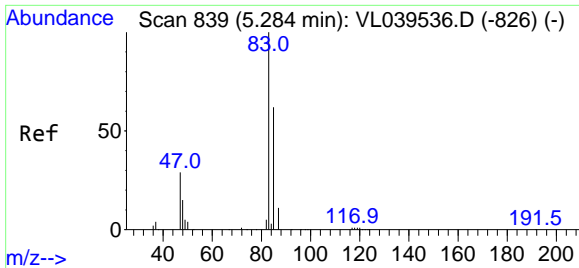


#27
 Carbon Disulfide
 Concen: 0.312 ppbv
 RT: 4.137 min Scan# 477
 Delta R.T. -0.003 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

Tgt Ion: 76 Resp: 33082

Ion	Ratio	Lower	Upper
76	100		
44	29.0	14.6	21.8#
78	13.4	7.8	11.6#



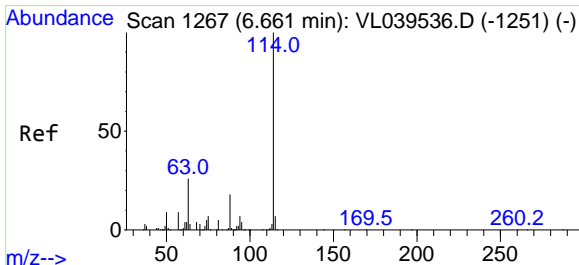
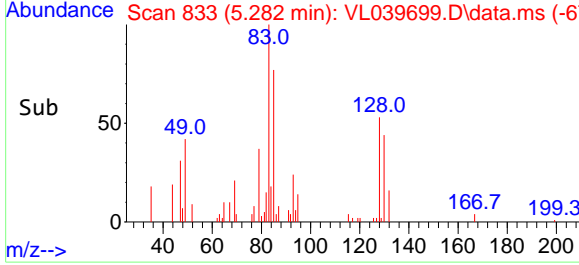
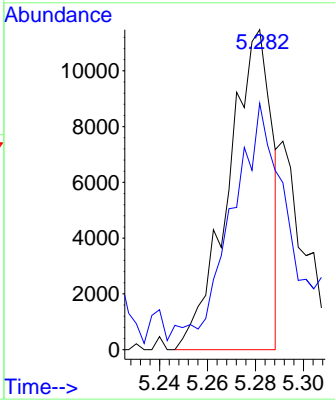
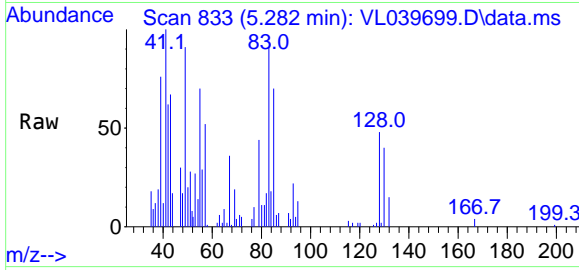


#29
 Chloroform
 Concen: 0.100 ppbv
 RT: 5.282 min Scan# 81
 Delta R.T. -0.003 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

Instrument : MSVOA_L
 ClientSampleId : VL1010ABS01

Tgt Ion: 83 Resp: 14522

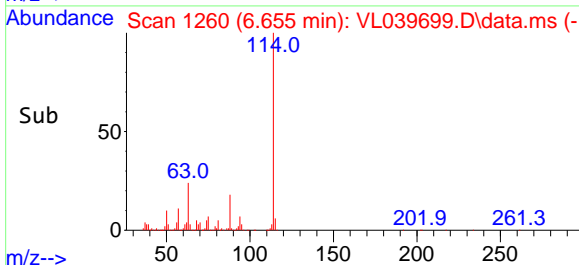
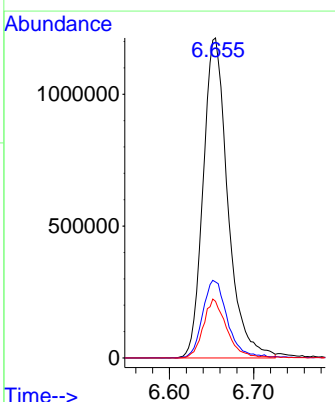
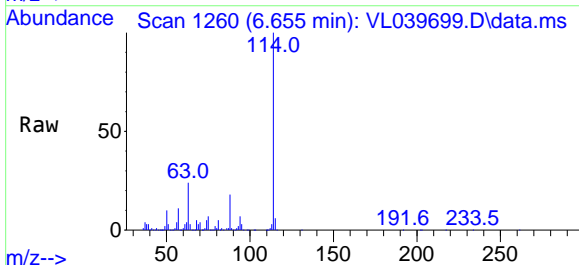
Ion	Ratio	Lower	Upper
83	100		
85	69.4	52.8	79.2

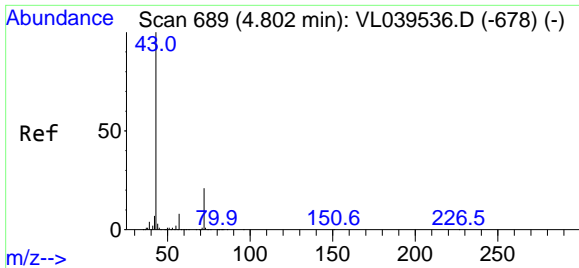


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.655 min Scan# 1260
 Delta R.T. -0.006 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

Tgt Ion: 114 Resp: 2466302

Ion	Ratio	Lower	Upper
114	100		
63	25.0	20.2	30.4
88	17.8	14.5	21.7

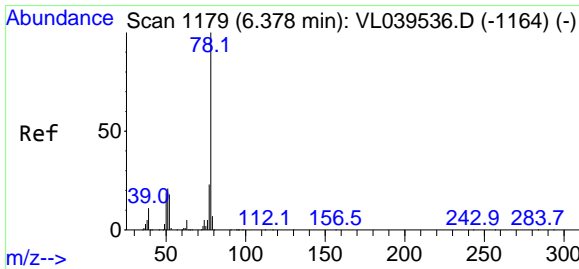
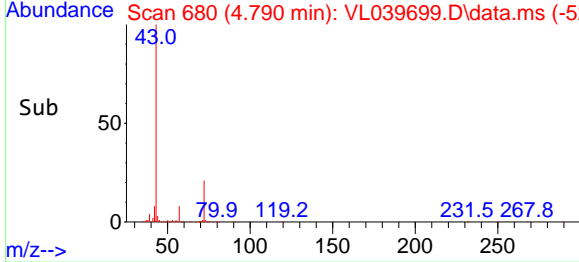
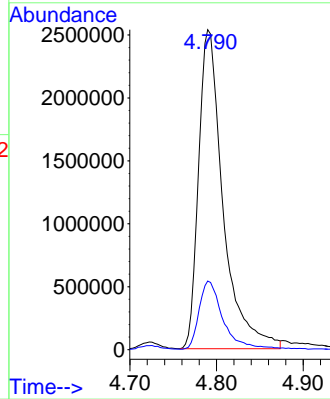
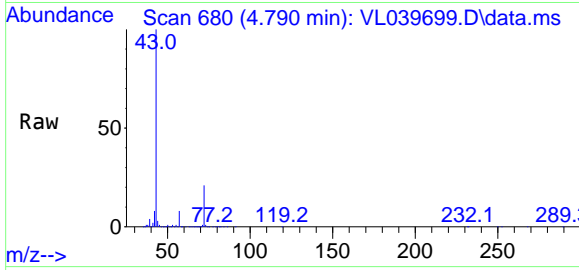




#34
 2-Butanone
 Concen: 41.099 ppbv
 RT: 4.790 min Scan# 61
 Delta R.T. -0.012 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

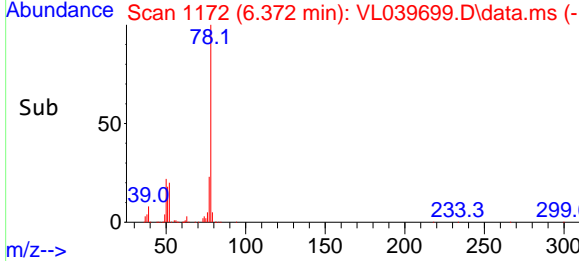
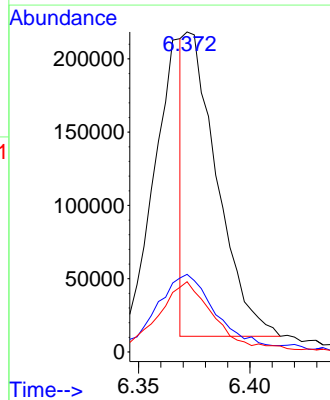
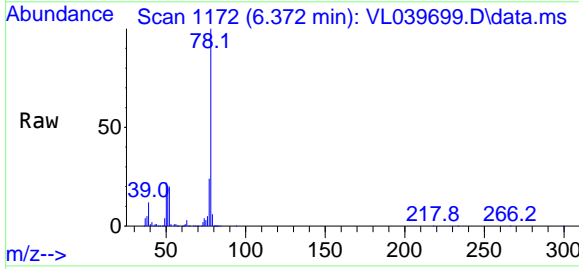
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1010ABS01

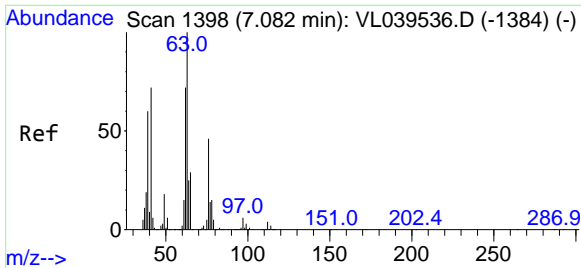
Tgt Ion: 43 Resp: 4978828
 Ion Ratio Lower Upper
 43 100
 72 21.6 17.9 26.9



#36
 Benzene
 Concen: 1.125 ppbv
 RT: 6.372 min Scan# 1172
 Delta R.T. -0.006 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

Tgt Ion: 78 Resp: 212220
 Ion Ratio Lower Upper
 78 100
 77 23.4 20.3 30.5
 50 21.1 15.5 23.3



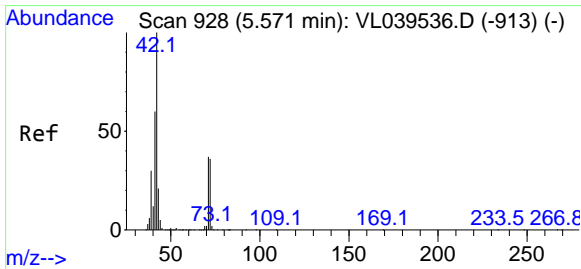
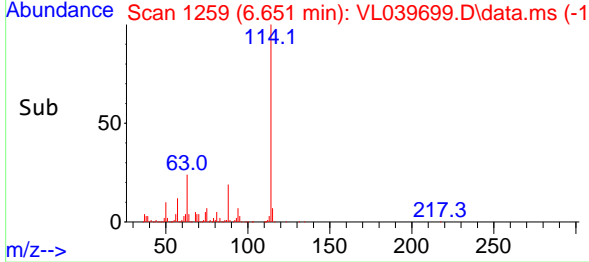
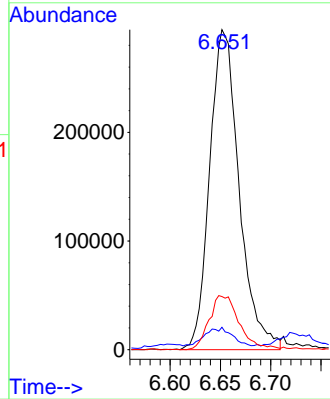
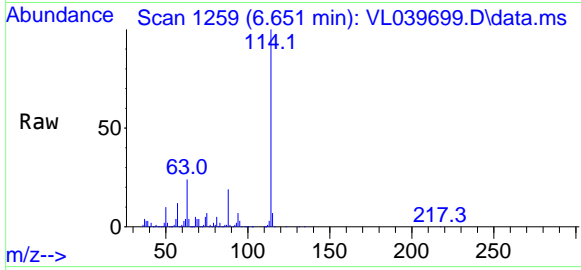


#39
 1,2-Dichloropropane
 Concen: 8.243 ppbv
 RT: 6.651 min Scan# 111
 Delta R.T. -0.430 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

Instrument : MSVOA_L
 ClientSampleId : VL1010ABS01

Tgt Ion: 63 Resp: 600162

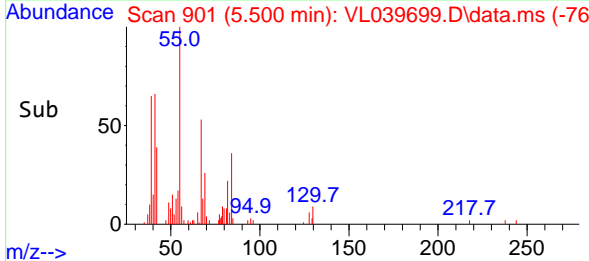
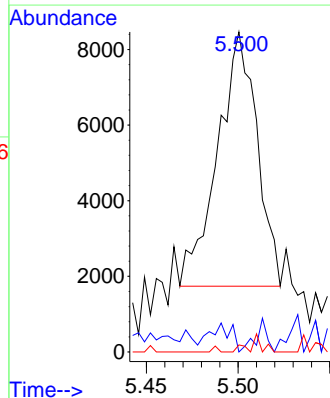
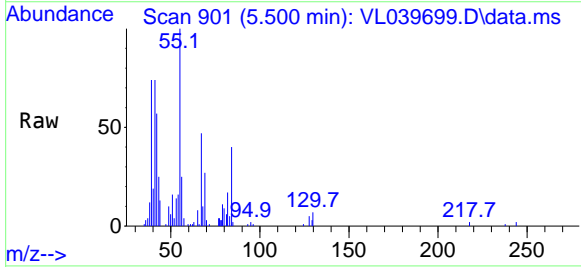
Ion	Ratio	Lower	Upper
63	100		
41	5.5	59.6	89.4#
62	16.6	51.4	77.0#

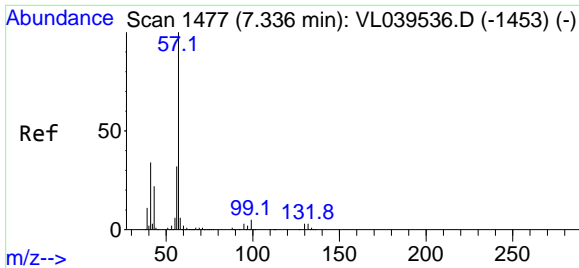


#41
 Tetrahydrofuran
 Concen: 0.135 ppbv
 RT: 5.500 min Scan# 901
 Delta R.T. -0.070 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

Tgt Ion: 42 Resp: 10050

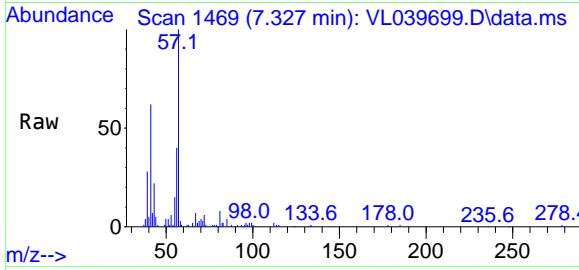
Ion	Ratio	Lower	Upper
42	100		
72	32.3	31.8	47.8
71	12.8	31.8	47.8#



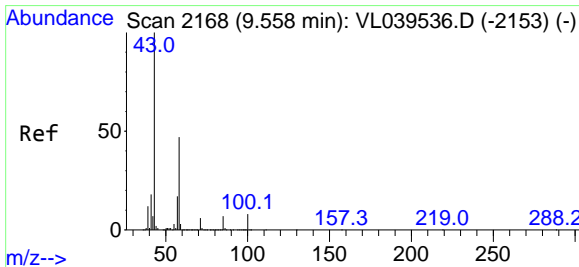
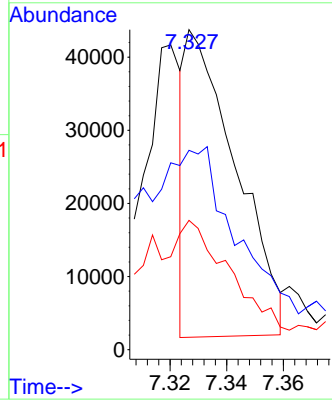
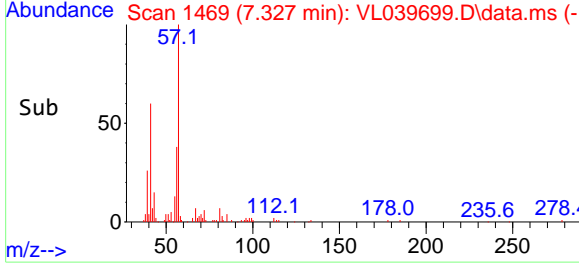


#44
 2,2,4-Trimethylpentane
 Concen: 0.159 ppbv
 RT: 7.327 min Scan# 1477
 Delta R.T. -0.009 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

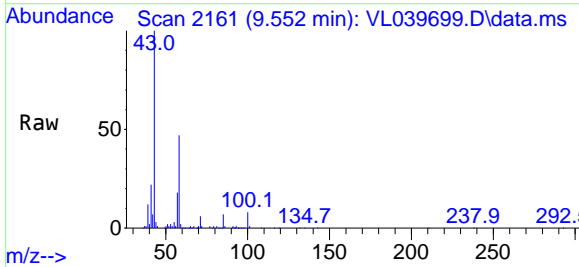
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1010ABS01



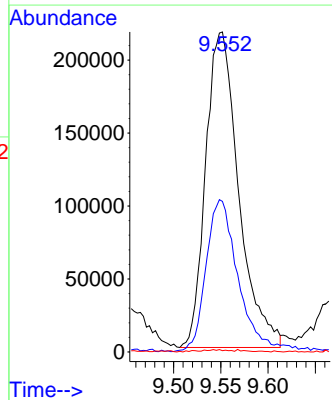
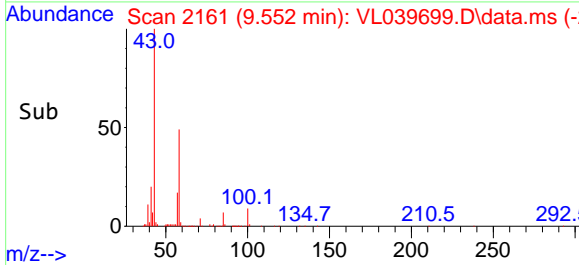
Tgt Ion: 57 Resp: 51809
 Ion Ratio Lower Upper
 57 100
 41 123.1 27.4 41.2#
 56 76.6 24.5 36.7#

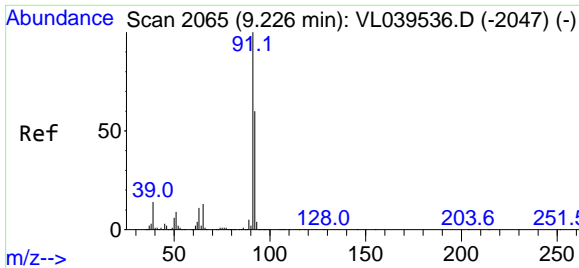


#51
 2-Hexanone
 Concen: 3.731 ppbv
 RT: 9.552 min Scan# 2161
 Delta R.T. -0.006 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36



Tgt Ion: 43 Resp: 525692
 Ion Ratio Lower Upper
 43 100
 58 47.5 38.4 57.6
 98 0.9 0.3 0.5#

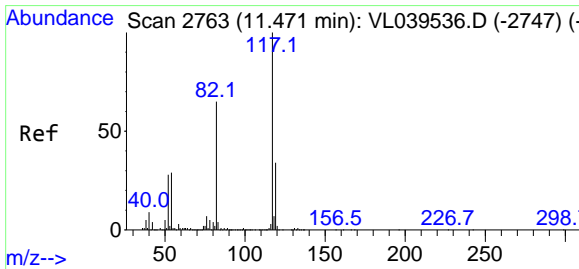
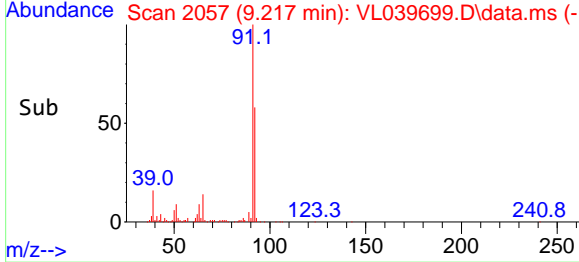
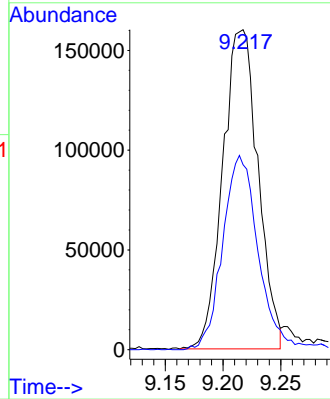
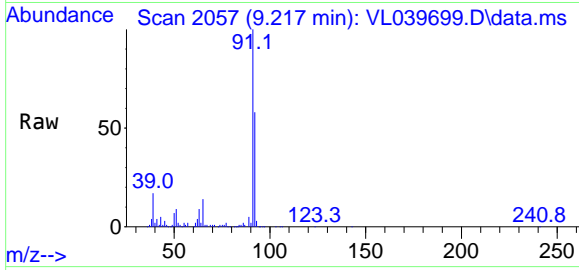




#53
 Toluene
 Concen: 1.623 ppbv
 RT: 9.217 min Scan# 2065
 Delta R.T. -0.009 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

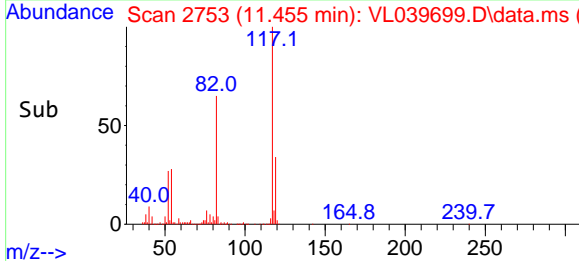
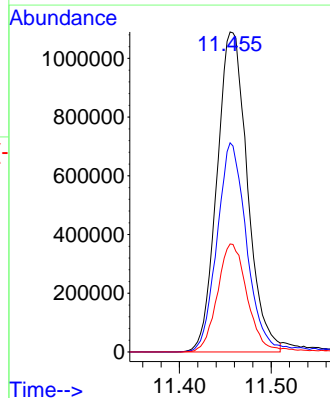
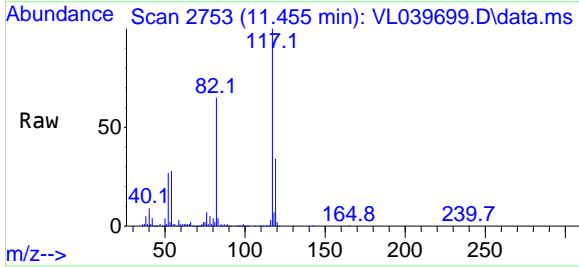
Instrument : MSVOA_L
 ClientSampleId : VL1010ABS01

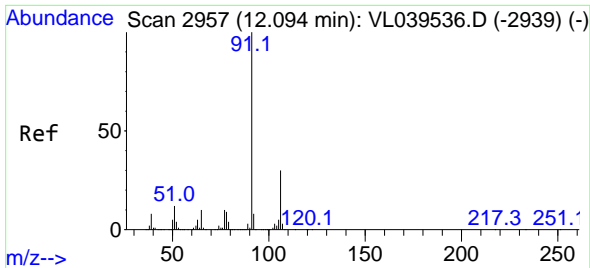
Tgt Ion: 91 Resp: 340345
 Ion Ratio Lower Upper
 91 100
 92 63.3 48.2 72.2



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 11.455 min Scan# 2753
 Delta R.T. -0.015 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

Tgt Ion: 117 Resp: 2512960
 Ion Ratio Lower Upper
 117 100
 82 65.7 50.8 76.2
 119 33.8 24.1 36.1

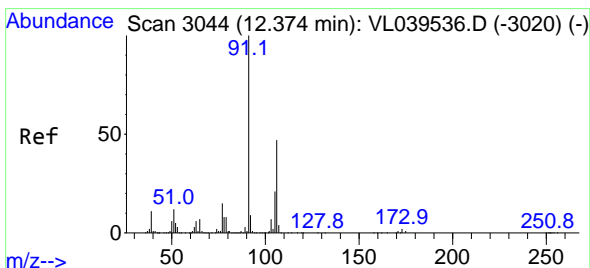
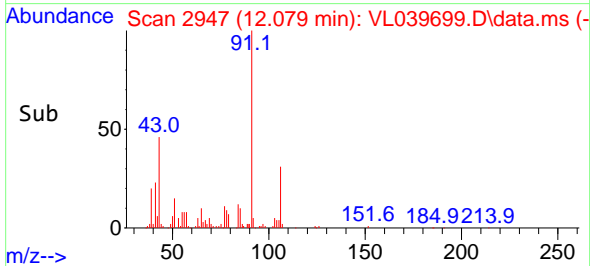
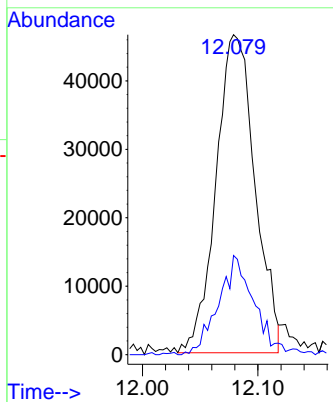
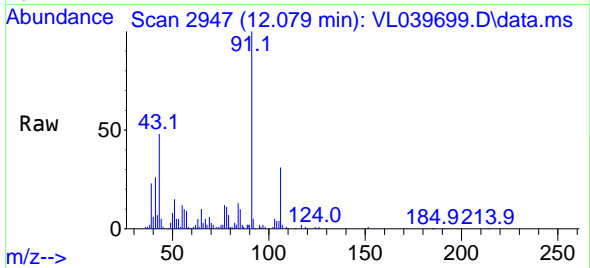




#58
 Ethyl Benzene
 Concen: 0.376 ppbv
 RT: 12.079 min Scan# 2947
 Delta R.T. -0.015 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

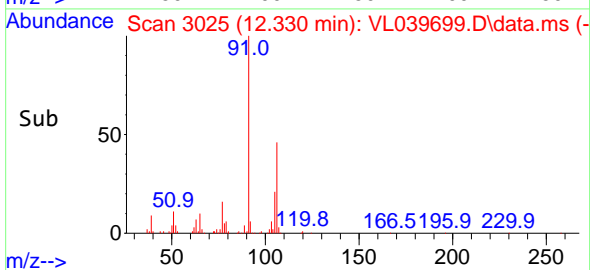
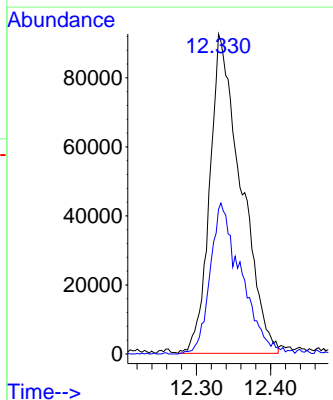
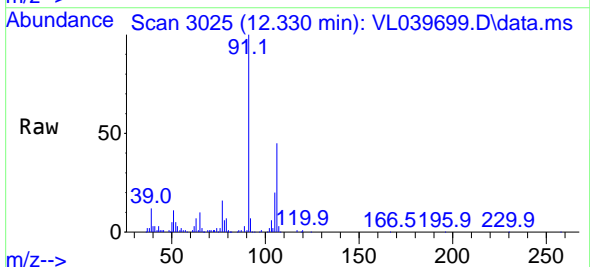
Instrument : MSVOA_L
 ClientSampleId : VL1010ABS01

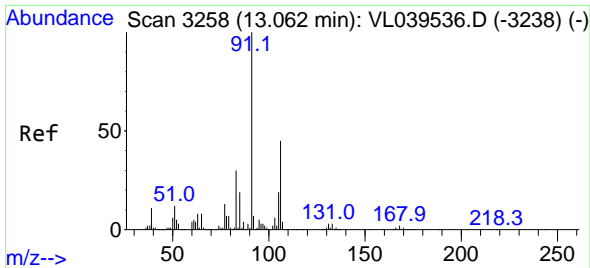
Tgt Ion: 91 Resp: 108963
 Ion Ratio Lower Upper
 91 100
 106 31.2 25.4 38.0



#59
 m/p-Xylene
 Concen: 1.053 ppbv
 RT: 12.330 min Scan# 3025
 Delta R.T. -0.044 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

Tgt Ion: 91 Resp: 271405
 Ion Ratio Lower Upper
 91 100
 106 47.2 35.4 53.2

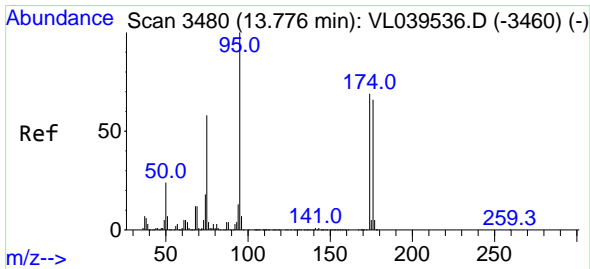
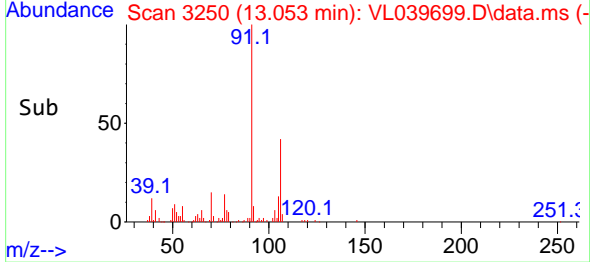
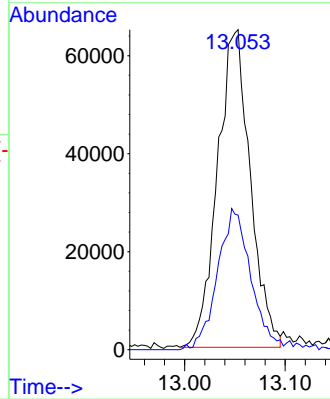
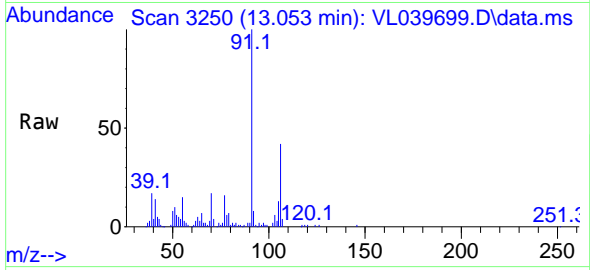




#60
 o-Xylene
 Concen: 0.596 ppbv
 RT: 13.053 min Scan# 31
 Delta R.T. -0.009 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

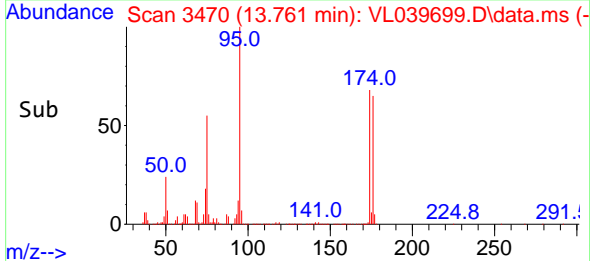
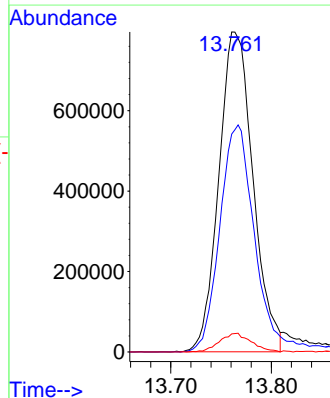
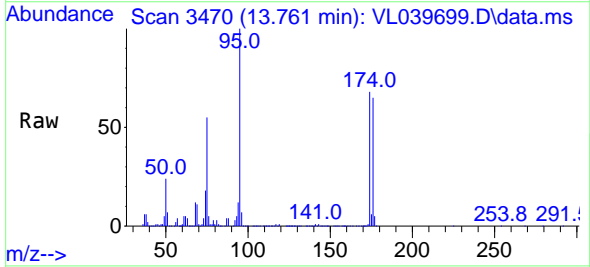
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1010ABS01

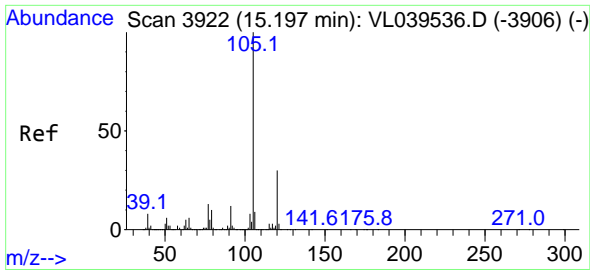
Tgt Ion: 91 Resp: 146745
 Ion Ratio Lower Upper
 91 100
 106 46.3 22.4 67.3



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.014 ppbv
 RT: 13.761 min Scan# 3470
 Delta R.T. -0.015 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

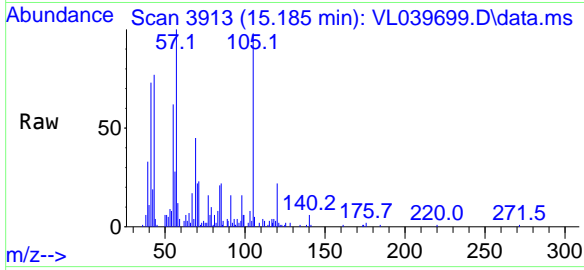
Tgt Ion: 95 Resp: 1878623
 Ion Ratio Lower Upper
 95 100
 174 75.9 55.9 83.9
 175 5.5 4.2 6.4





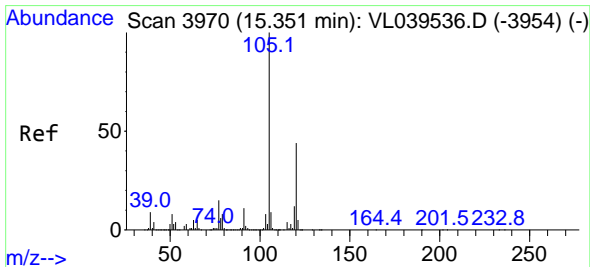
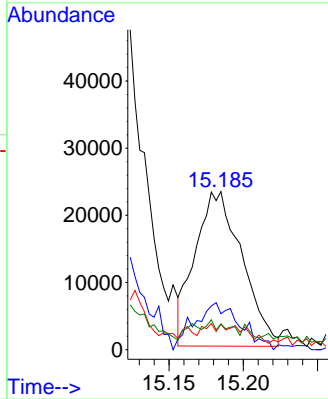
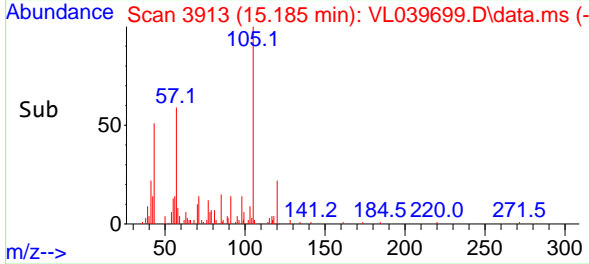
#72
 4-Ethyltoluene
 Concen: 0.181 ppbv
 RT: 15.185 min Scan# 3913
 Delta R.T. -0.012 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

Instrument : MSVOA_L
 ClientSampleId : VL1010ABS01

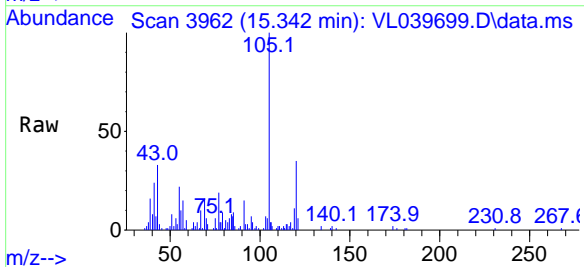


Tgt Ion:105 Resp: 50791

Ion	Ratio	Lower	Upper
105	100		
120	30.7	24.2	36.2
91	16.2	10.2	15.4#
77	11.3	11.1	16.7

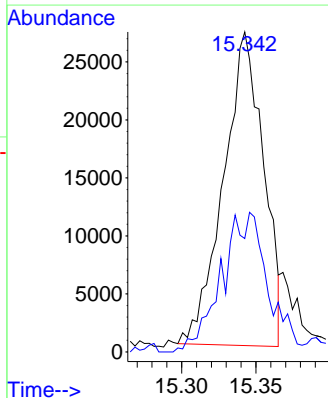
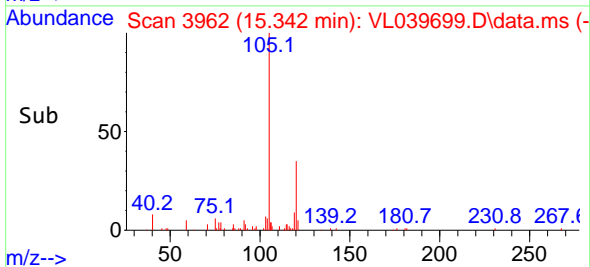


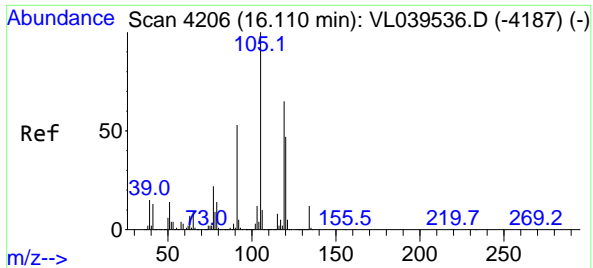
#73
 1,3,5-Trimethylbenzene
 Concen: 0.197 ppbv
 RT: 15.342 min Scan# 3962
 Delta R.T. -0.009 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36



Tgt Ion:105 Resp: 50565

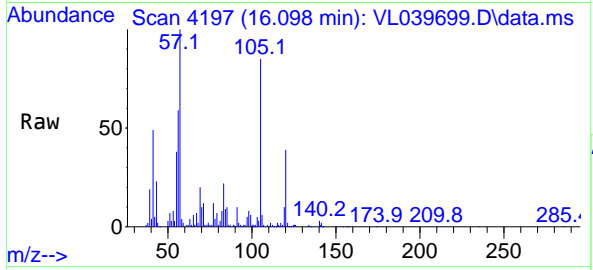
Ion	Ratio	Lower	Upper
105	100		
120	35.1	38.2	57.4#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.663 ppbv
 RT: 16.098 min Scan# 41
 Delta R.T. -0.012 min
 Lab File: VL039699.D
 Acq: 10 Oct 2022 17:36

Instrument : MSVOA_L
 ClientSampleId : VL1010ABS01



Tgt Ion:105 Resp: 191069

Ion	Ratio	Lower	Upper
105	100		
120	46.3	39.5	59.3
91	9.6	39.2	58.8#
77	10.4	17.2	25.8#

