

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112122\
 Data File : VL039911.D
 Acq On : 21 Nov 2022 15:46
 Operator : SY/AP
 Sample : N5724-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Nov 22 03:48:56 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL111822AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Nov 22 03:45:31 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.166	49	1038830	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.626	114	3250689	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.446	117	2851119	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.761	95	2241433	10.293	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.900%

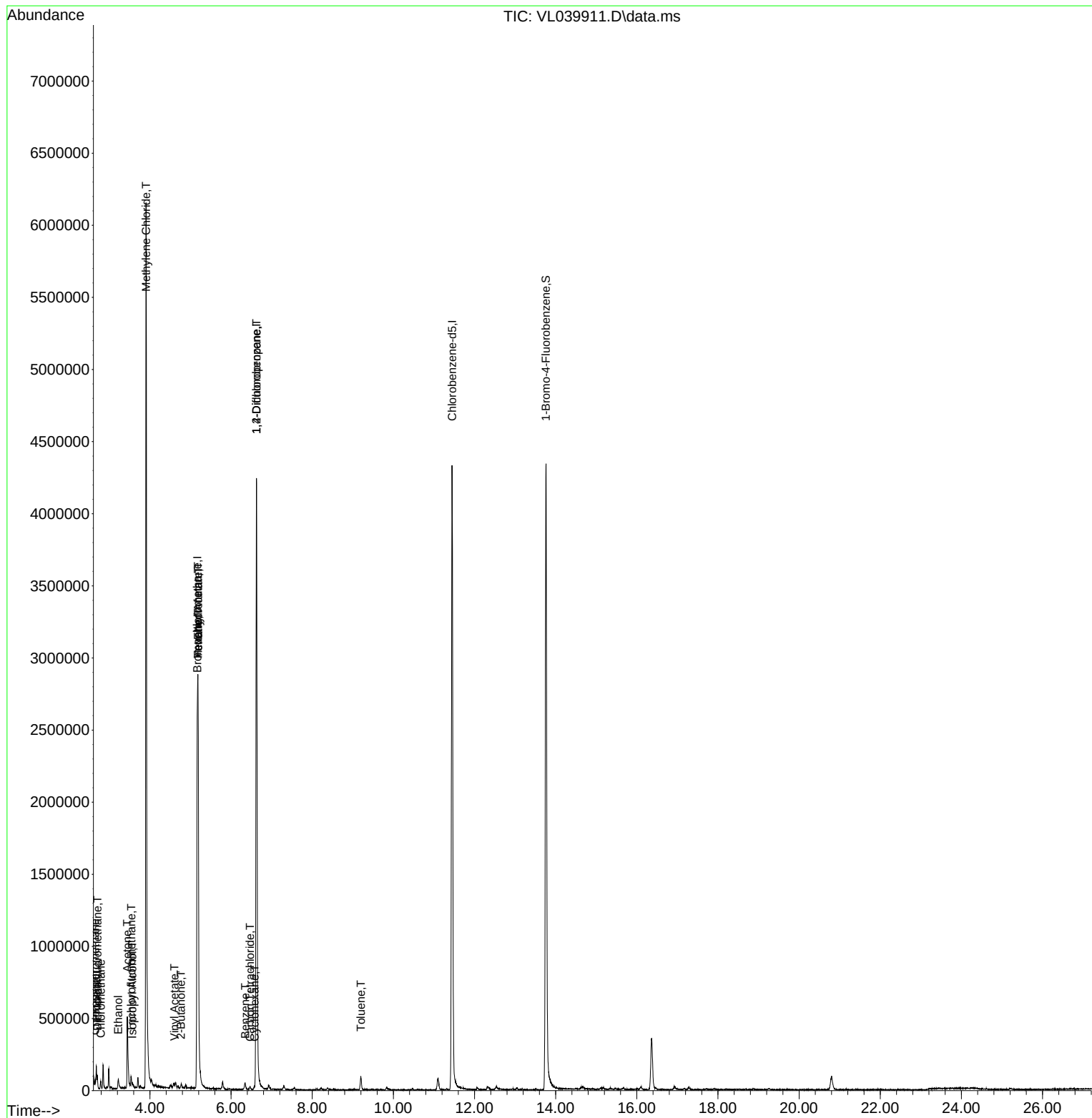
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.703	85	52676	0.354	ppbv	97
3) Chlorodifluoromethane	2.648	51	51427	0.359	ppbv	98
4) Chloromethane	2.790	50	37835	0.413	ppbv #	85
9) Propene	2.681	41	29215	0.433	ppbv	83
11) Trichlorofluoromethane	3.539	101	44863	0.247	ppbv	90
13) Ethanol	3.221	45	67593	13.111	ppbv	94
15) Acetone	3.443	43	500341	3.631	ppbv	99
19) Isopropyl Alcohol	3.565	45	17695	0.237	ppbv #	29
20) Methylene Chloride	3.906	84	2153168	32.254	ppbv	94
23) Vinyl Acetate	4.603	43	6251	0.110	ppbv #	83
25) Ethyl Acetate	5.185	43	666503	2.635	ppbv #	76
26) Hexane	5.189	57	945480	8.555	ppbv #	38
30) Cyclohexane	6.578	84	3277	0.030	ppbv #	1
34) 2-Butanone	4.767	43	33251	0.214	ppbv #	85
35) Carbon Tetrachloride	6.468	117	9020	0.049	ppbv	97
36) Benzene	6.349	78	28616	0.104	ppbv	92
39) 1,2-Dichloropropane	6.626	63	801082	7.441	ppbv #	26
41) Tetrahydrofuran	5.189	42	349858	3.258	ppbv #	50
53) Toluene	9.198	91	39408	0.125	ppbv #	50

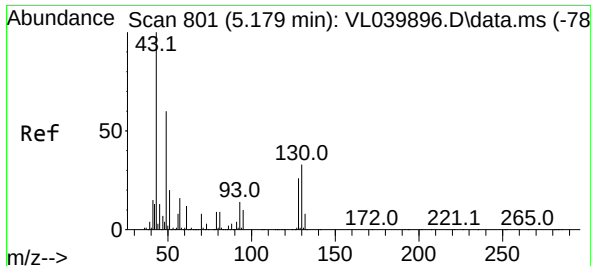
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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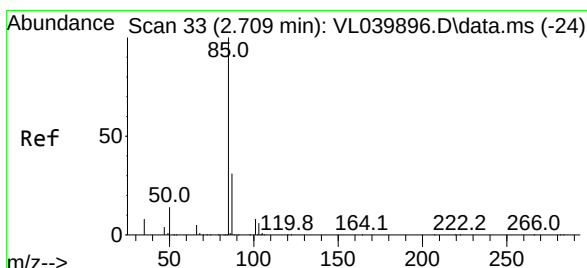
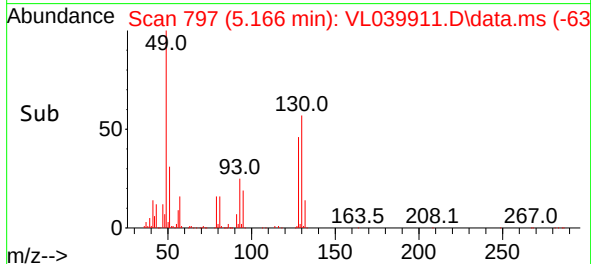
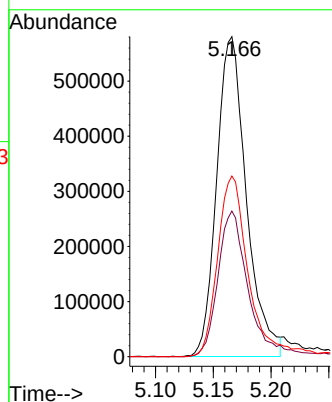
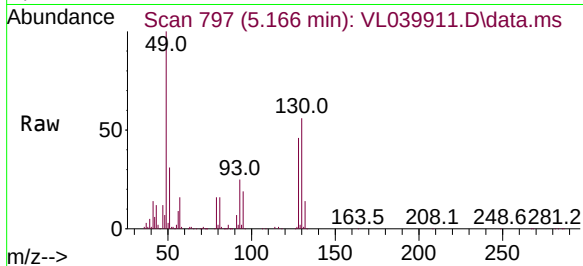




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.166 min Scan# 79
Delta R.T. 0.010 min
Lab File: VL039911.D
Acq: 21 Nov 2022 15:46

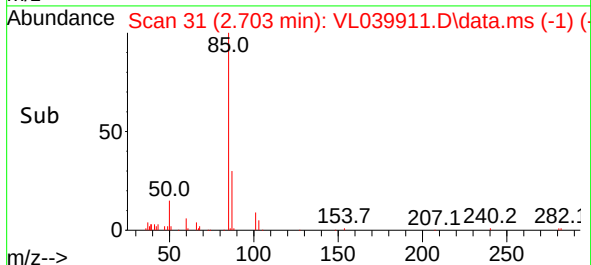
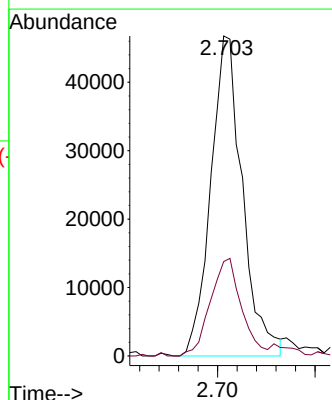
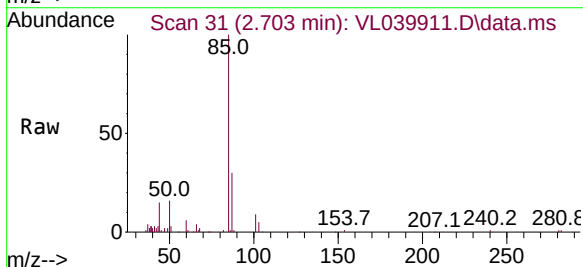
Instrument :
MSVOA_L
ClientSampleId :
OA1

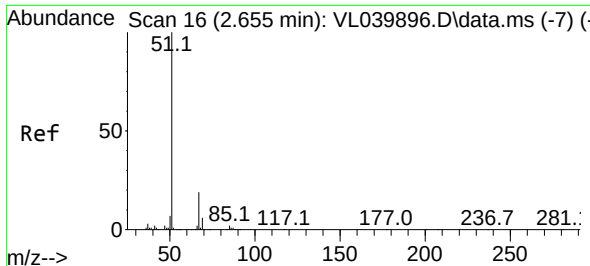
Tgt Ion: 49 Resp: 1038830
Ion Ratio Lower Upper
49 100
128 48.7 22.1 66.3
130 60.4 27.7 83.1



#2
Dichlorodifluoromethane
Concen: 0.354 ppbv
RT: 2.703 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL039911.D
Acq: 21 Nov 2022 15:46

Tgt Ion: 85 Resp: 52676
Ion Ratio Lower Upper
85 100
87 29.5 25.0 37.4

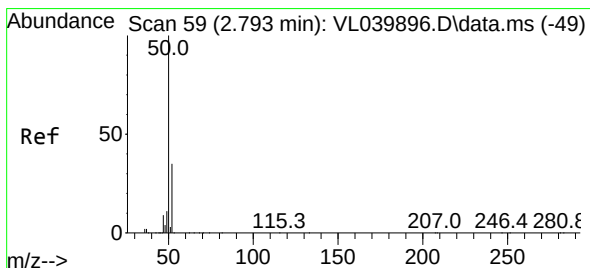
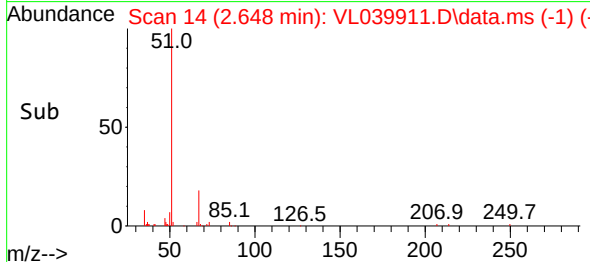
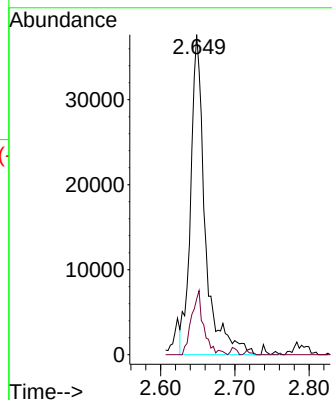
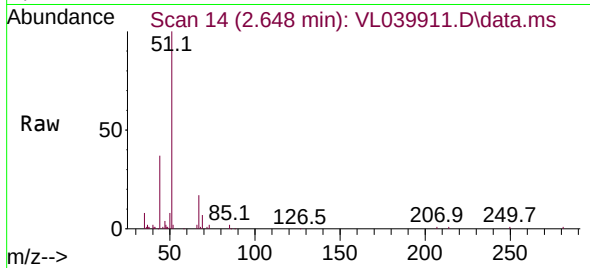




#3
Chlorodifluoromethane
Concen: 0.359 ppbv
RT: 2.648 min Scan# 14
Delta R.T. 0.006 min
Lab File: VL039911.D
Acq: 21 Nov 2022 15:46

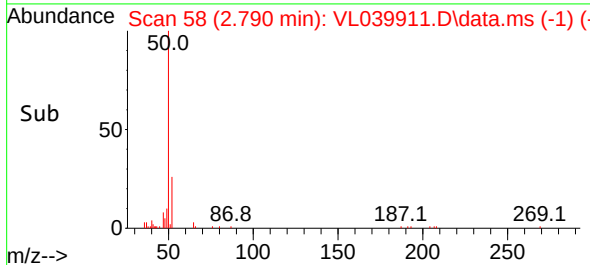
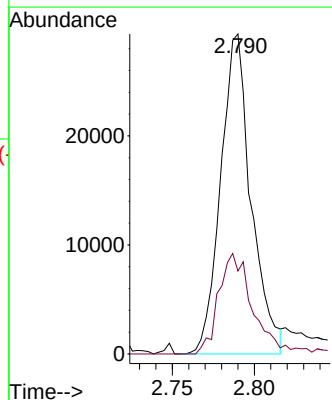
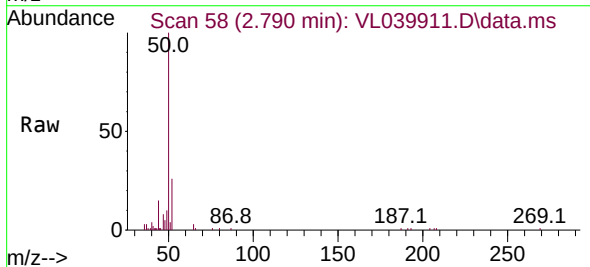
Instrument :
MSVOA_L
ClientSampleId :
OA1

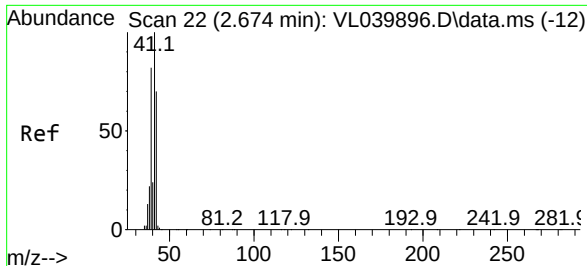
Tgt Ion: 51 Resp: 51427
Ion Ratio Lower Upper
51 100
67 16.9 14.2 21.4



#4
Chloromethane
Concen: 0.413 ppbv
RT: 2.790 min Scan# 58
Delta R.T. 0.010 min
Lab File: VL039911.D
Acq: 21 Nov 2022 15:46

Tgt Ion: 50 Resp: 37835
Ion Ratio Lower Upper
50 100
52 25.9 27.8 41.8#

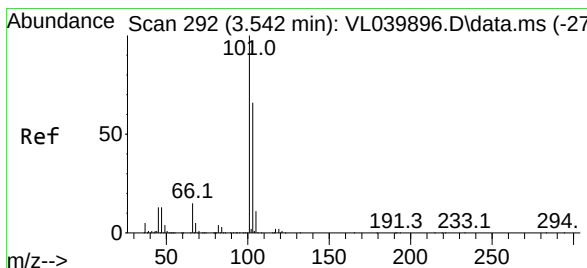
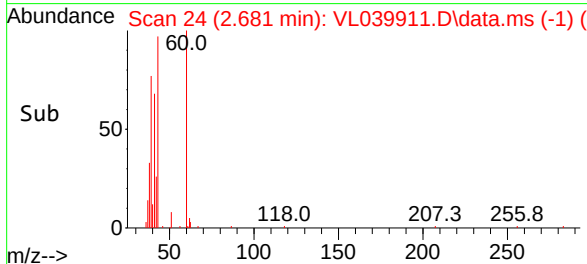
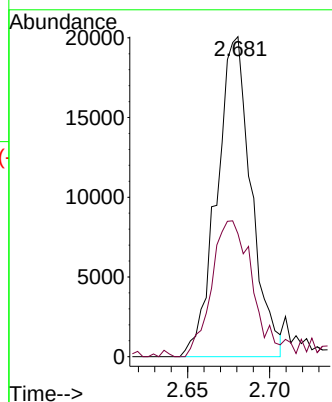
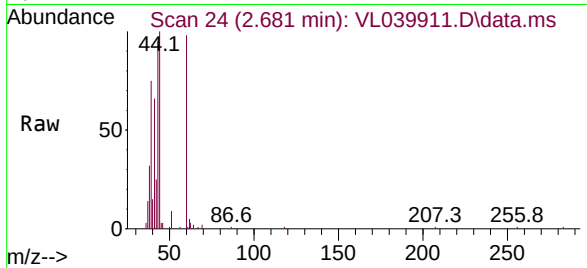




#9
Propene
Concen: 0.433 ppbv
RT: 2.681 min Scan# 24
Delta R.T. 0.019 min
Lab File: VL039911.D
Acq: 21 Nov 2022 15:46

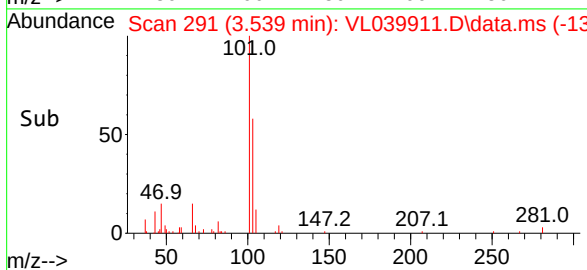
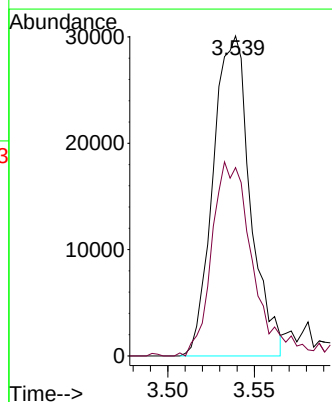
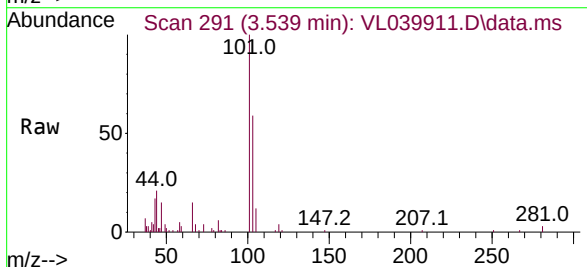
Instrument :
MSVOA_L
ClientSampleId :
OA1

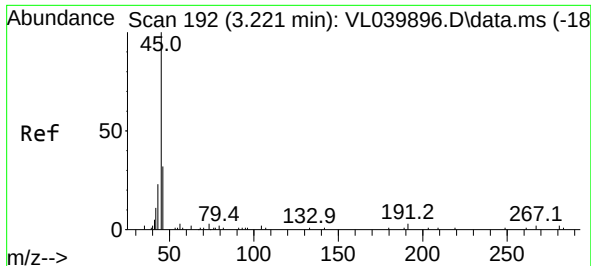
Tgt Ion: 41 Resp: 29215
Ion Ratio Lower Upper
41 100
42 55.8 55.8 83.6



#11
Trichlorofluoromethane
Concen: 0.247 ppbv
RT: 3.539 min Scan# 291
Delta R.T. 0.010 min
Lab File: VL039911.D
Acq: 21 Nov 2022 15:46

Tgt Ion: 101 Resp: 44863
Ion Ratio Lower Upper
101 100
103 57.9 52.6 78.8

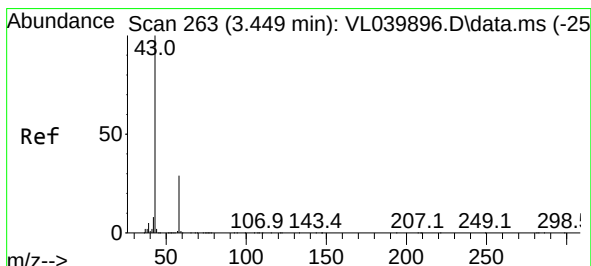
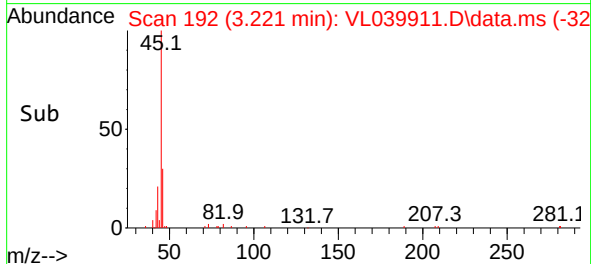
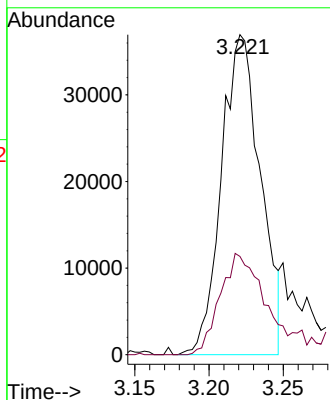
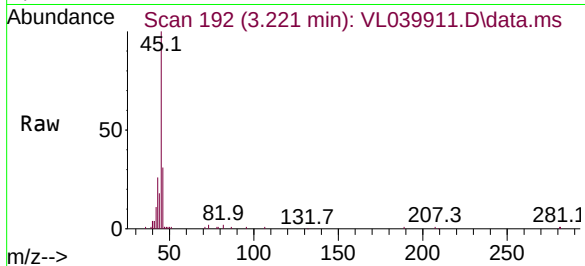




#13
Ethanol
Concen: 13.111 ppbv
RT: 3.221 min Scan# 192
Delta R.T. 0.013 min
Lab File: VL039911.D
Acq: 21 Nov 2022 15:46

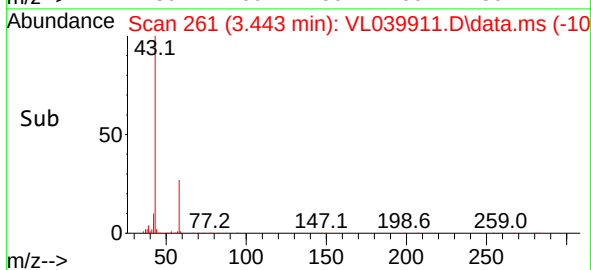
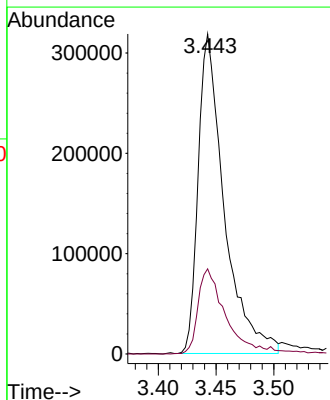
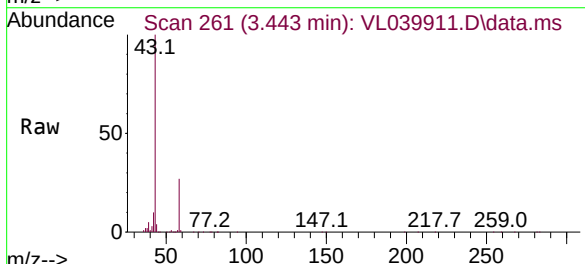
Instrument :
MSVOA_1
ClientSampleId :
OA1

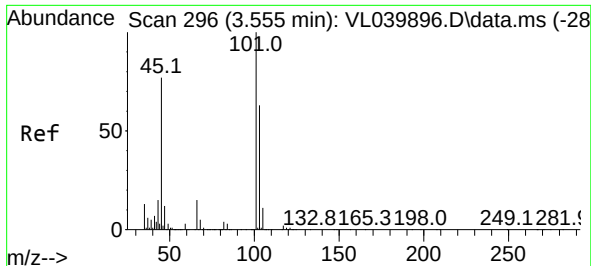
Tgt Ion: 45 Resp: 67593
Ion Ratio Lower Upper
45 100
46 40.0 14.6 58.2



#15
Acetone
Concen: 3.631 ppbv
RT: 3.443 min Scan# 261
Delta R.T. 0.010 min
Lab File: VL039911.D
Acq: 21 Nov 2022 15:46

Tgt Ion: 43 Resp: 500341
Ion Ratio Lower Upper
43 100
58 29.1 22.9 34.3

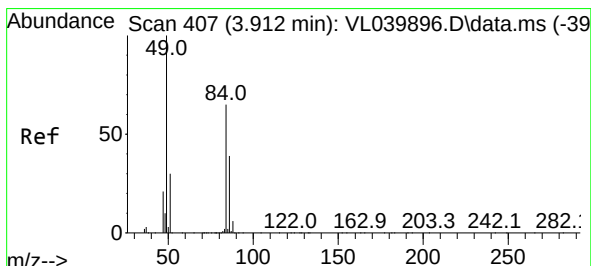
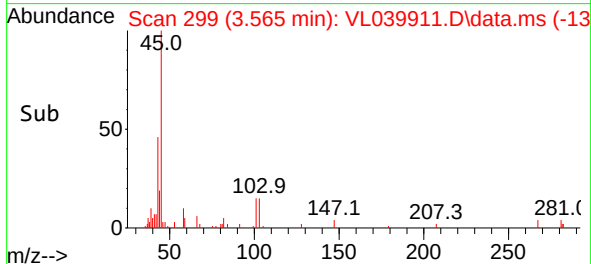
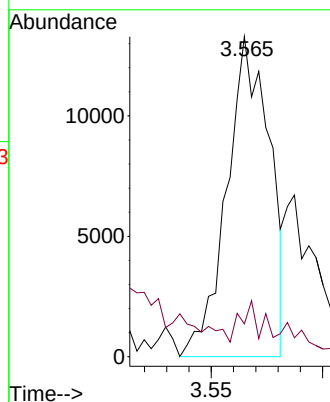
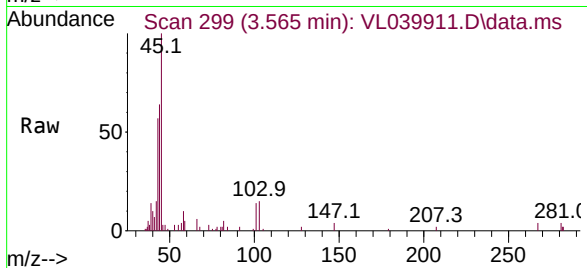




#19
Isopropyl Alcohol
Concen: 0.237 ppbv
RT: 3.565 min Scan# 296
Delta R.T. 0.023 min
Lab File: VL039911.D
Acq: 21 Nov 2022 15:46

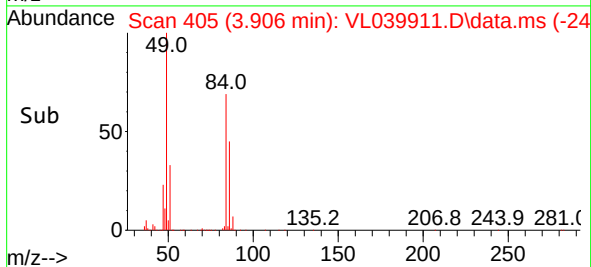
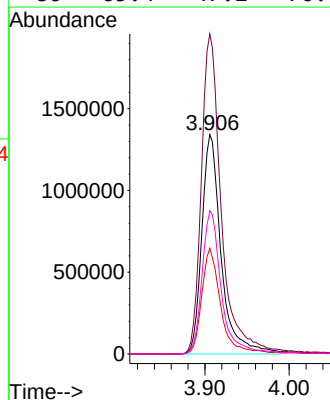
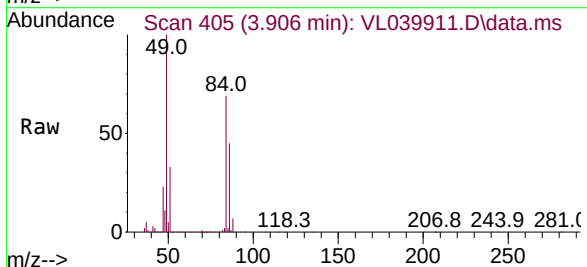
Instrument :
MSVOA_L
ClientSampleId :
OA1

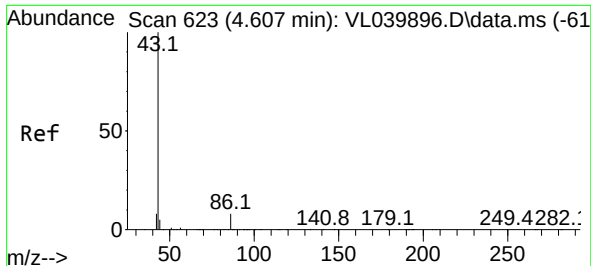
Tgt Ion: 45 Resp: 17695
Ion Ratio Lower Upper
45 100
58 0.0 38.7 58.1#



#20
Methylene Chloride
Concen: 32.254 ppbv
RT: 3.906 min Scan# 405
Delta R.T. 0.006 min
Lab File: VL039911.D
Acq: 21 Nov 2022 15:46

Tgt Ion: 84 Resp: 2153168
Ion Ratio Lower Upper
84 100
49 145.9 122.2 183.4
51 48.1 36.3 54.5
86 65.4 47.2 70.8



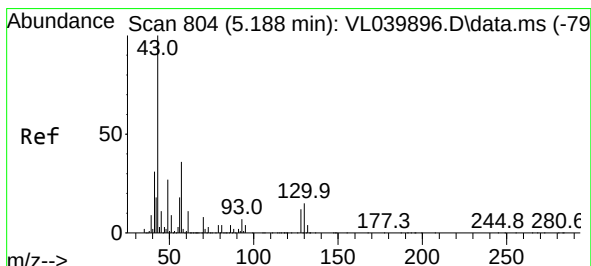
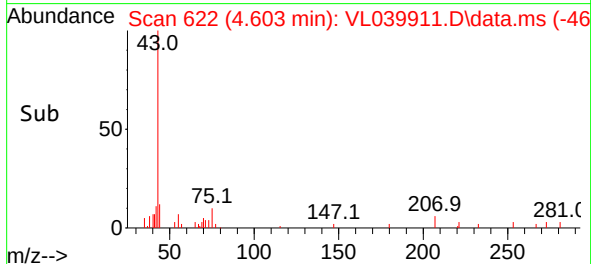
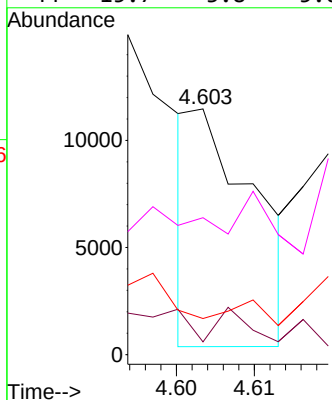
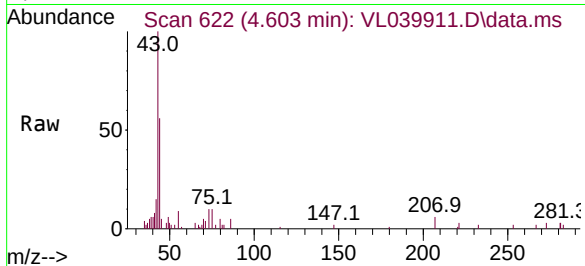


#23
 Vinyl Acetate
 Concen: 0.110 ppbv
 RT: 4.603 min Scan# 61
 Delta R.T. 0.013 min
 Lab File: VL039911.D
 Acq: 21 Nov 2022 15:46

Instrument :
 MSVOA_1
 ClientSampleId :
 OA1

Tgt Ion: 43 Resp: 6251

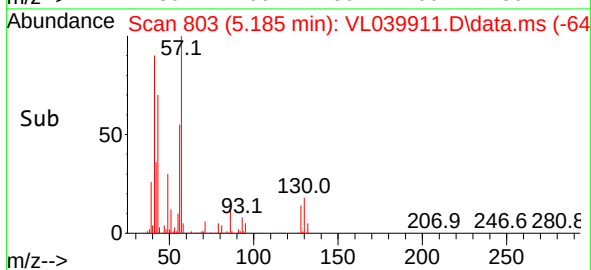
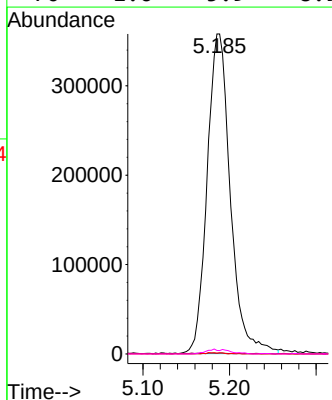
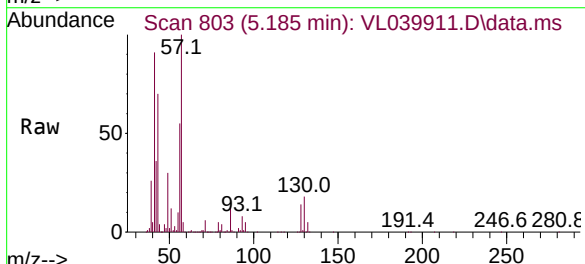
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.0	7.4#
42	6.7	7.6	11.4#
44	15.7	3.8	5.6#

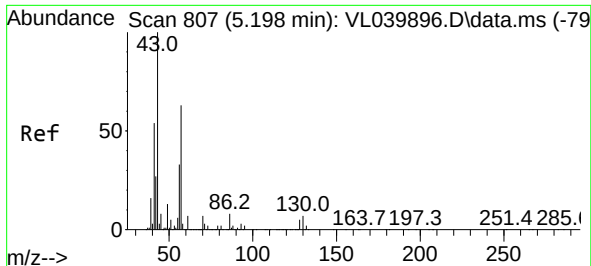


#25
 Ethyl Acetate
 Concen: 2.635 ppbv
 RT: 5.185 min Scan# 803
 Delta R.T. 0.016 min
 Lab File: VL039911.D
 Acq: 21 Nov 2022 15:46

Tgt Ion: 43 Resp: 666503

Ion	Ratio	Lower	Upper
43	100		
45	0.4	8.4	12.6#
61	0.3	8.5	12.7#
70	1.6	5.9	8.9#

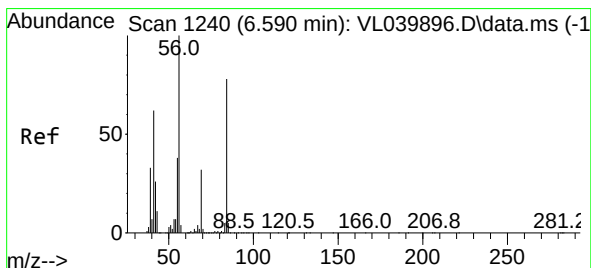
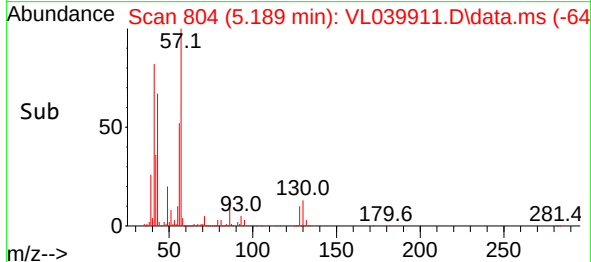
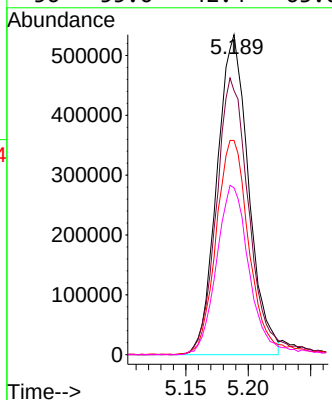
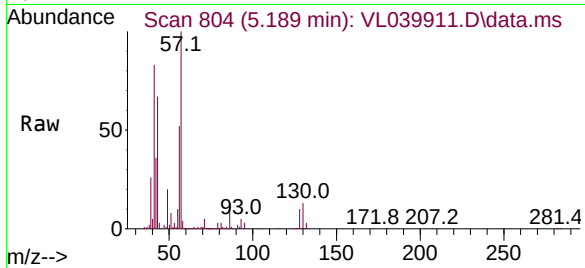




#26
Hexane
Concen: 8.555 ppbv
RT: 5.189 min Scan# 807
Delta R.T. 0.006 min
Lab File: VL039911.D
Acq: 21 Nov 2022 15:46

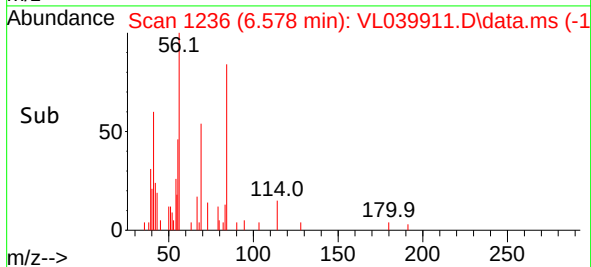
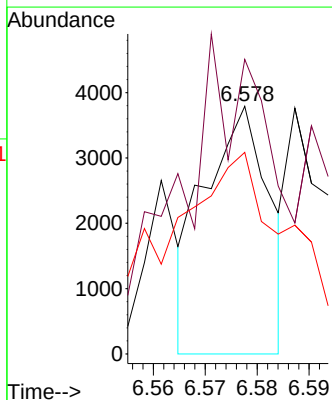
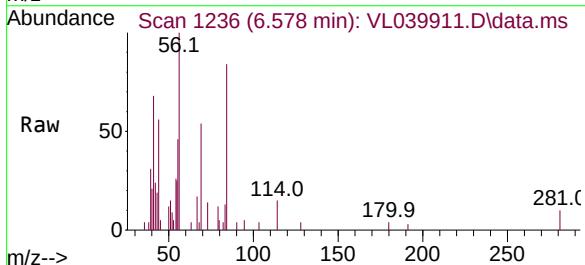
Instrument :
MSVOA_L
ClientSampleId :
OA1

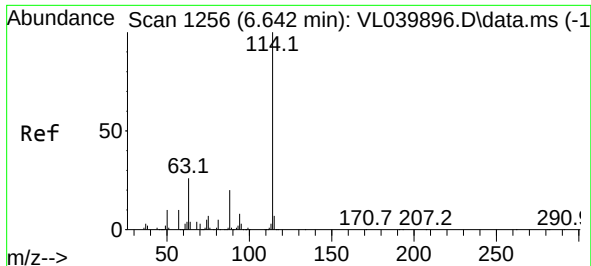
Tgt Ion: 57 Resp: 945480
Ion Ratio Lower Upper
57 100
41 91.1 72.3 108.5
43 71.0 188.7 283.1#
56 55.6 42.4 63.6



#30
Cyclohexane
Concen: 0.030 ppbv
RT: 6.578 min Scan# 1236
Delta R.T. 0.010 min
Lab File: VL039911.D
Acq: 21 Nov 2022 15:46

Tgt Ion: 84 Resp: 3277
Ion Ratio Lower Upper
84 100
56 0.0 112.5 168.7#
41 213.0 67.8 101.8#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.626 min Scan# 114

Delta R.T. 0.006 min

Lab File: VL039911.D

Acq: 21 Nov 2022 15:46

Instrument :

MSVOA_L

ClientSampleId :

OA1

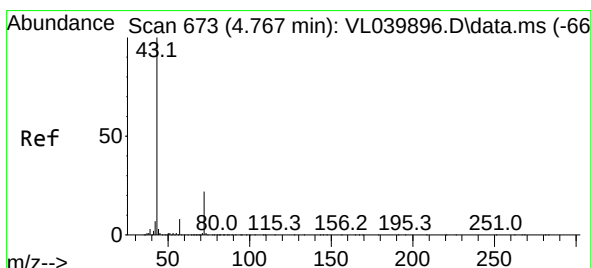
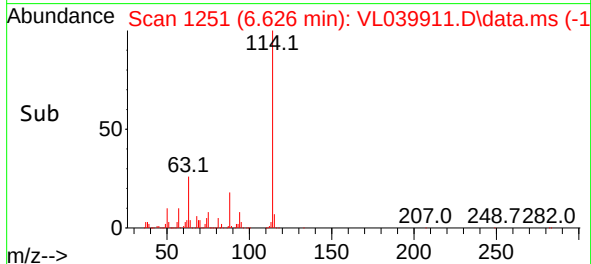
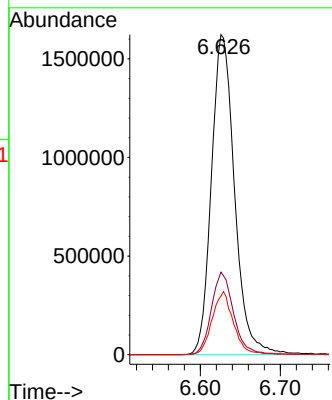
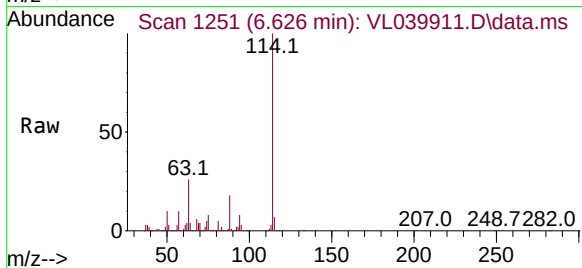
Tgt Ion:114 Resp: 3250689

Ion Ratio Lower Upper

114 100

63 25.1 21.4 32.0

88 18.4 15.3 22.9



#34

2-Butanone

Concen: 0.214 ppbv

RT: 4.767 min Scan# 673

Delta R.T. 0.016 min

Lab File: VL039911.D

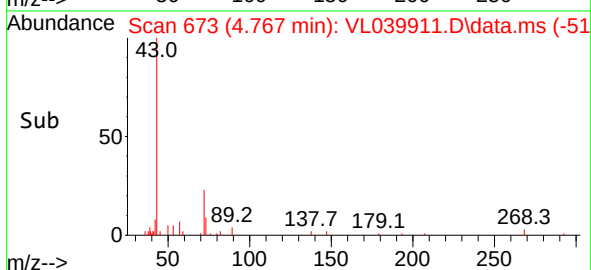
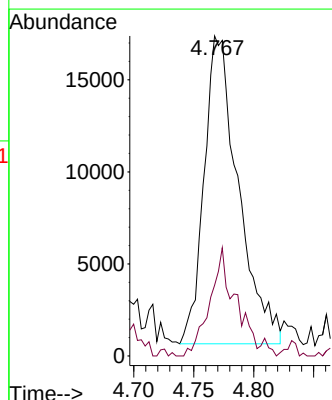
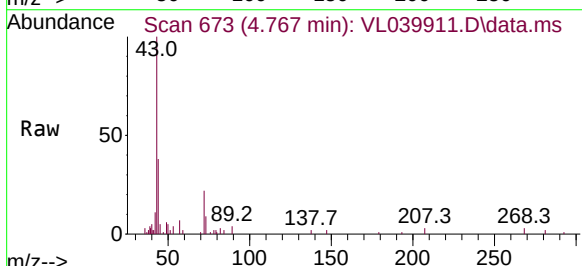
Acq: 21 Nov 2022 15:46

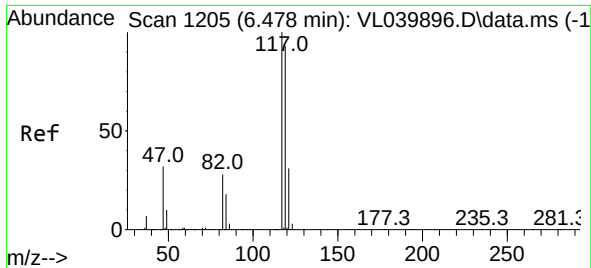
Tgt Ion: 43 Resp: 33251

Ion Ratio Lower Upper

43 100

72 29.0 17.4 26.2#

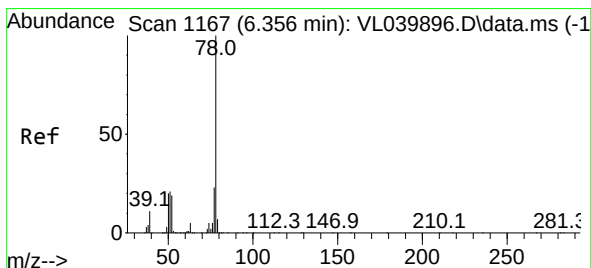
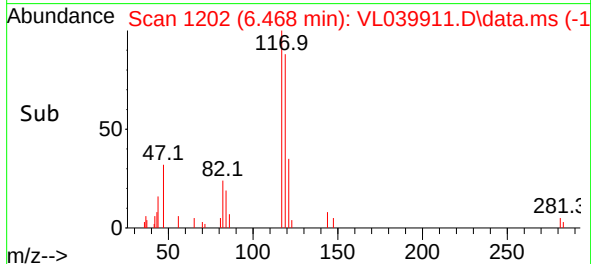
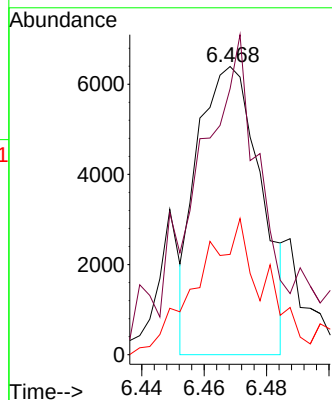
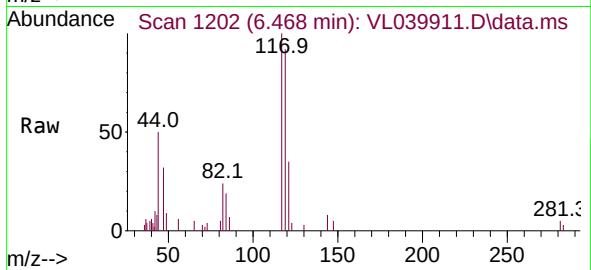




#35
Carbon Tetrachloride
Concen: 0.049 ppbv
RT: 6.468 min Scan# 1165
Delta R.T. 0.006 min
Lab File: VL039911.D
Acq: 21 Nov 2022 15:46

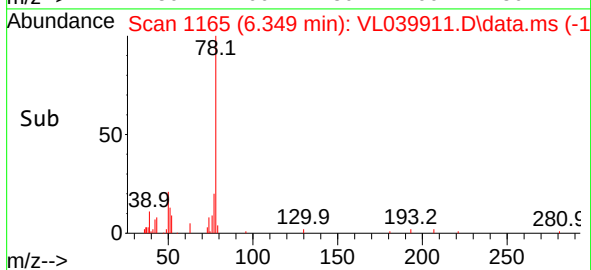
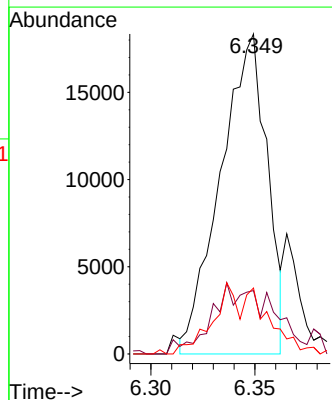
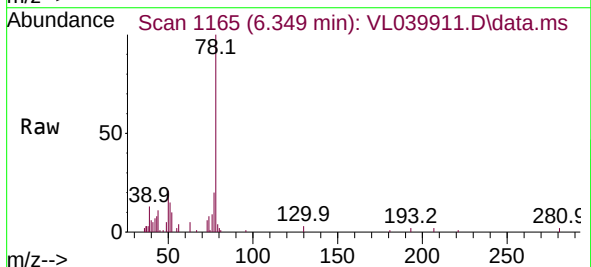
Instrument :
MSVOA_L
ClientSampleId :
OA1

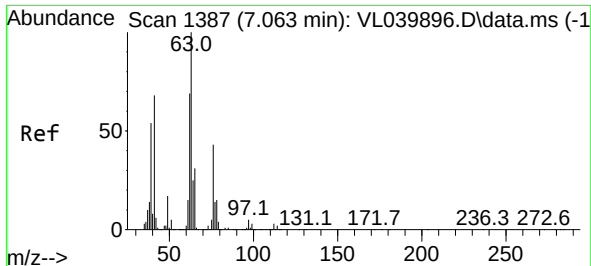
Tgt Ion:117 Resp: 9020
Ion Ratio Lower Upper
117 100
119 96.9 74.7 112.1
121 30.8 24.5 36.7



#36
Benzene
Concen: 0.104 ppbv
RT: 6.349 min Scan# 1165
Delta R.T. 0.013 min
Lab File: VL039911.D
Acq: 21 Nov 2022 15:46

Tgt Ion: 78 Resp: 28616
Ion Ratio Lower Upper
78 100
77 18.5 18.2 27.2
50 16.9 15.8 23.8





#39

1,2-Dichloropropane

Concen: 7.441 ppbv

RT: 6.626 min Scan# 11

Delta R.T. -0.415 min

Lab File: VL039911.D

Acq: 21 Nov 2022 15:46

Instrument :

MSVOA_L

ClientSampleId :

OA1

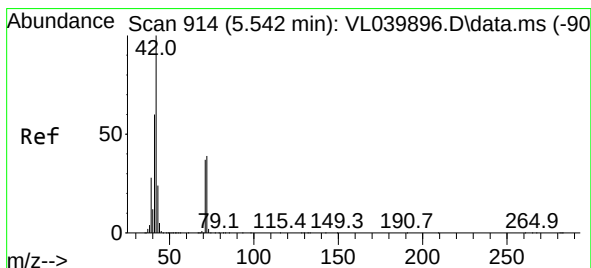
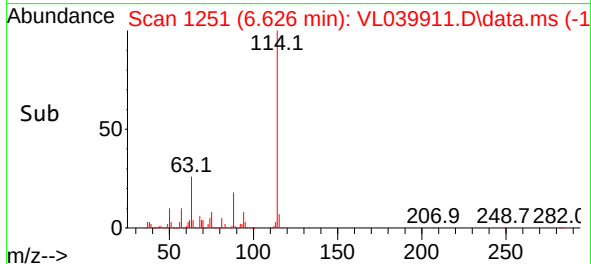
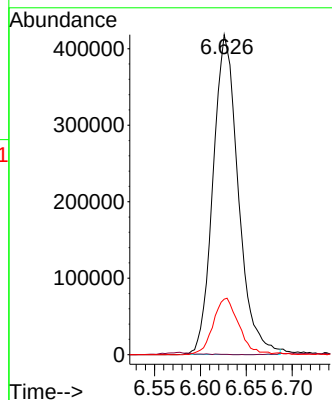
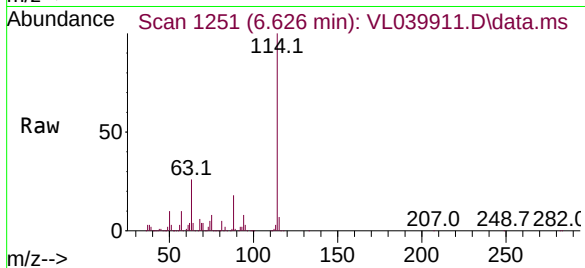
Tgt Ion: 63 Resp: 801082

Ion Ratio Lower Upper

63 100

41 0.0 54.7 82.1#

62 17.3 55.0 82.6#



#41

Tetrahydrofuran

Concen: 3.258 ppbv

RT: 5.189 min Scan# 804

Delta R.T. -0.334 min

Lab File: VL039911.D

Acq: 21 Nov 2022 15:46

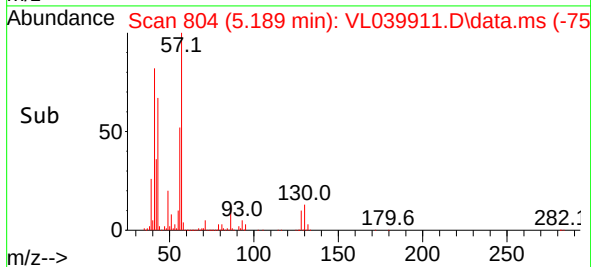
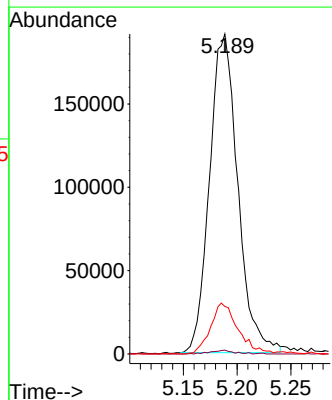
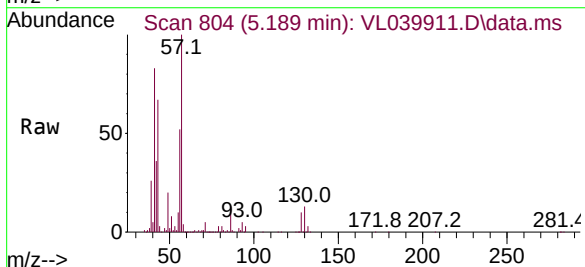
Tgt Ion: 42 Resp: 349858

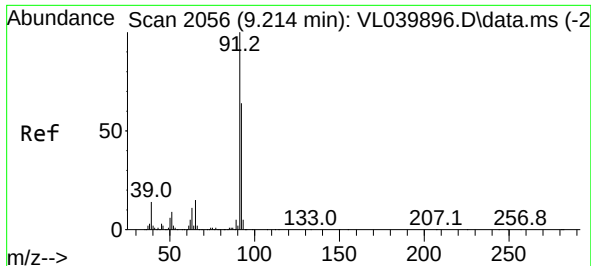
Ion Ratio Lower Upper

42 100

72 1.0 31.6 47.4#

71 16.1 31.2 46.8#

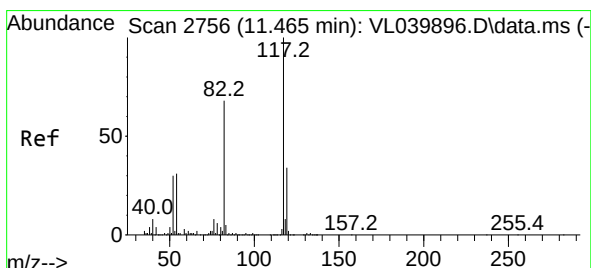
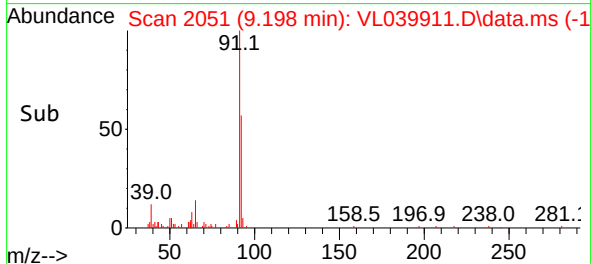
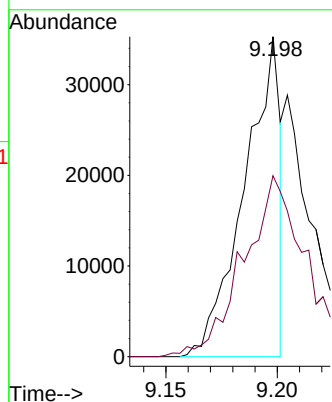
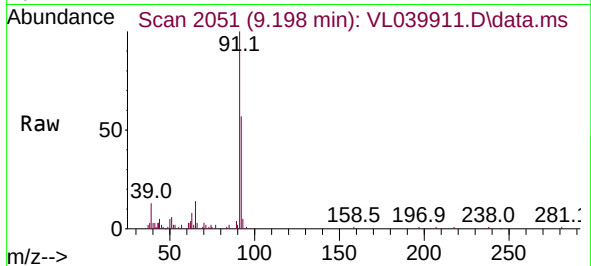




#53
Toluene
Concen: 0.125 ppbv
RT: 9.198 min Scan# 2056
Delta R.T. 0.006 min
Lab File: VL039911.D
Acq: 21 Nov 2022 15:46

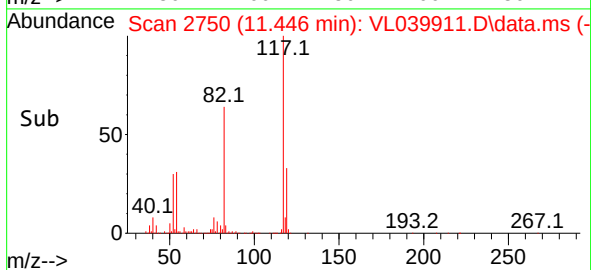
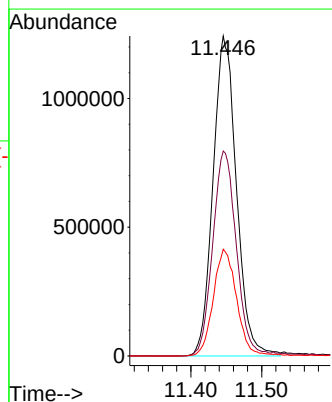
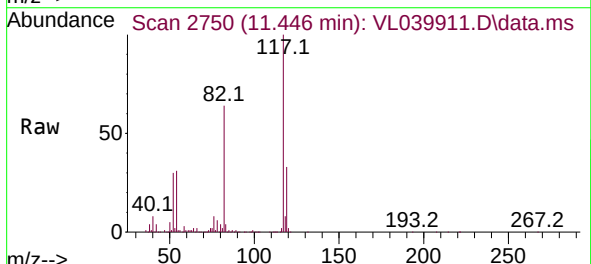
Instrument :
MSVOA_L
ClientSampleId :
OA1

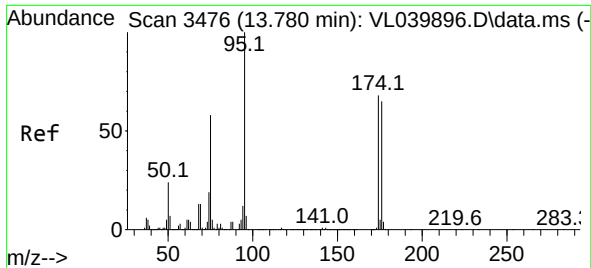
Tgt Ion: 91 Resp: 39408
Ion Ratio Lower Upper
91 100
92 100.4 49.8 74.6#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.446 min Scan# 2750
Delta R.T. 0.006 min
Lab File: VL039911.D
Acq: 21 Nov 2022 15:46

Tgt Ion: 117 Resp: 2851119
Ion Ratio Lower Upper
117 100
82 66.0 52.3 78.5
119 33.4 25.7 38.5





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.293 ppbv
 RT: 13.761 min Scan# 34
 Delta R.T. 0.006 min
 Lab File: VL039911.D
 Acq: 21 Nov 2022 15:46

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tgt Ion: 95 Resp: 2241433

Ion	Ratio	Lower	Upper
95	100		
174	62.8	53.7	80.5
175	4.5	4.0	6.0

