

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112222\
 Data File : VL039928.D
 Acq On : 22 Nov 2022 22:48
 Operator : SY/AP
 Sample : N5767-05
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Nov 23 04:52:46 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)

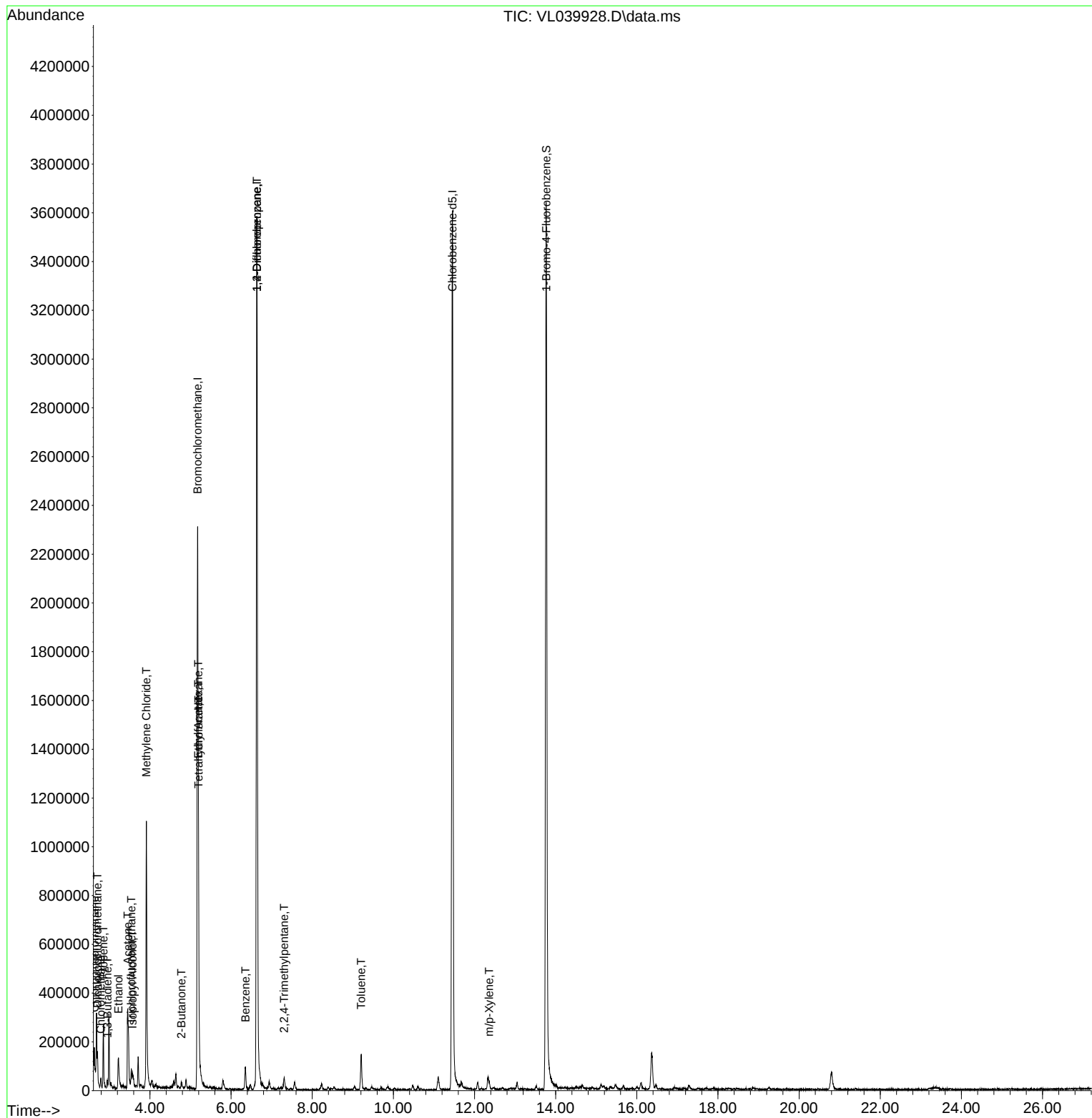
Internal Standards							
1) Bromochloromethane		5.172	49	965646	10.000	ppbv	0.02
33) 1,4-Difluorobenzene		6.635	114	2730669	10.000	ppbv	0.02
55) Chlorobenzene-d5		11.455	117	2404751	10.000	ppbv	0.02
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.767	95	1897818	10.332	ppbv	0.01
Spiked Amount 10.000		Range 65 - 135		Recovery	= 103.300%		
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane		2.706	85	80128	0.579	ppbv	98
3) Chlorodifluoromethane		2.636	51	97021	0.728	ppbv #	83
4) Chloromethane		2.790	50	31398	0.369	ppbv	93
9) Propene		2.851	41	59441	0.947	ppbv	95
11) Trichlorofluoromethane		3.539	101	40002	0.237	ppbv	98
13) Ethanol		3.224	45	142317	29.698	ppbv	93
15) Acetone		3.452	43	356596	2.784	ppbv	99
16) 1,3-Butadiene		2.954	39	3075	0.048	ppbv #	36
19) Isopropyl Alcohol		3.571	45	55871	0.806	ppbv #	37
20) Methylene Chloride		3.912	84	352132	5.675	ppbv	97
25) Ethyl Acetate		5.195	43	193032	0.821	ppbv #	78
26) Hexane		5.192	57	272030	2.648	ppbv #	38
34) 2-Butanone		4.777	43	16024	0.123	ppbv #	48
36) Benzene		6.356	78	70380	0.303	ppbv	98
39) 1,2-Dichloropropane		6.635	63	667793	7.385	ppbv #	29
41) Tetrahydrofuran		5.198	42	104038	1.153	ppbv #	50
44) 2,2,4-Trimethylpentane		7.311	57	22988	0.059	ppbv #	29
53) Toluene		9.208	91	60941	0.230	ppbv #	49
59) m/p-Xylene		12.359	91	13728	0.050	ppbv #	30

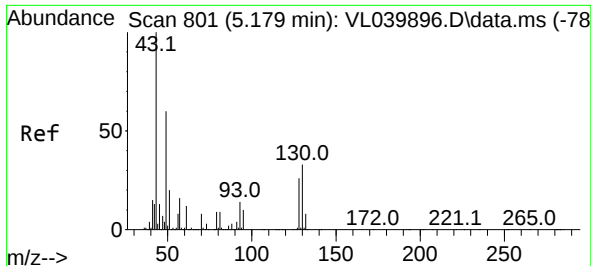
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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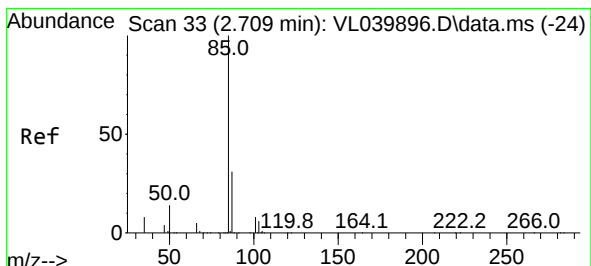
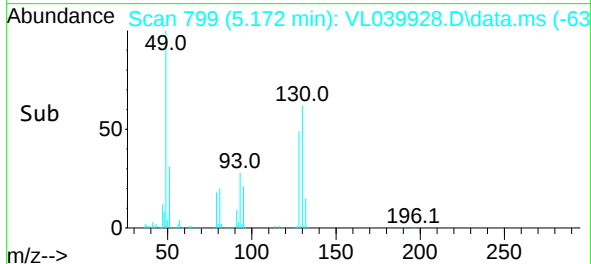
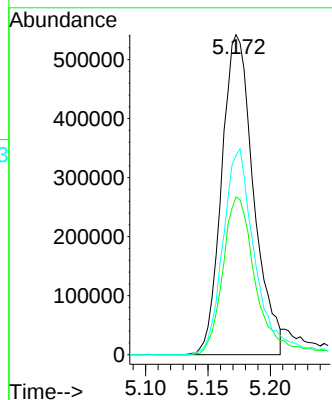
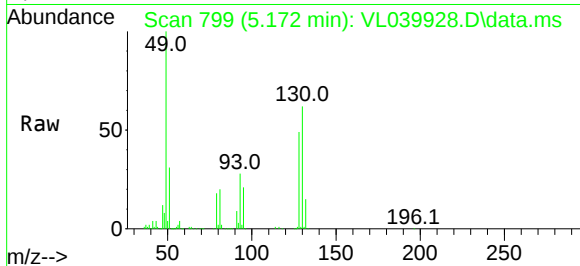




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.172 min Scan# 79
Delta R.T. 0.016 min
Lab File: VL039928.D
Acq: 22 Nov 2022 22:48

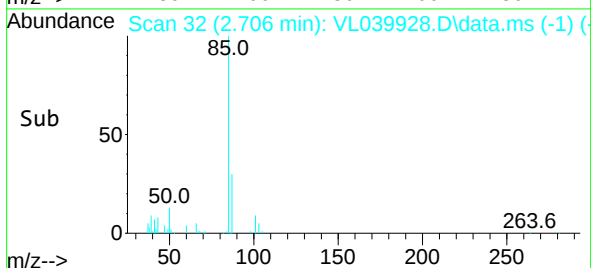
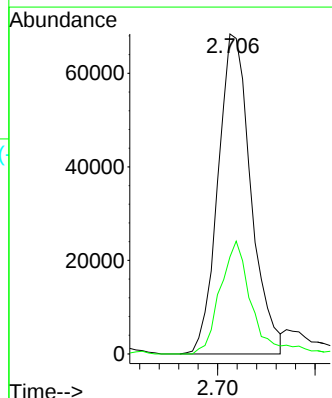
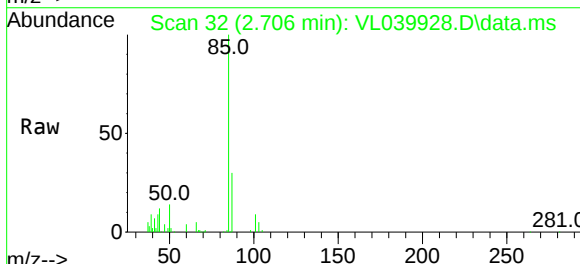
Instrument :
MSVOA_L
ClientSampleId :
OA1

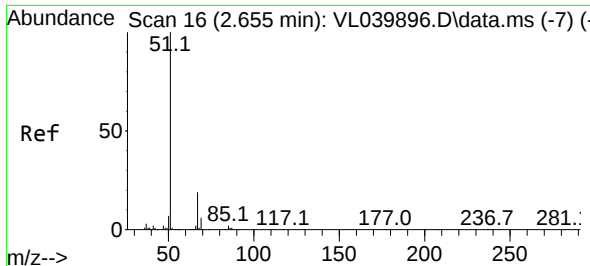
Tgt Ion: 49 Resp: 965646
Ion Ratio Lower Upper
49 100
128 52.7 22.1 66.3
130 67.4 27.7 83.1



#2
Dichlorodifluoromethane
Concen: 0.579 ppbv
RT: 2.706 min Scan# 32
Delta R.T. 0.010 min
Lab File: VL039928.D
Acq: 22 Nov 2022 22:48

Tgt Ion: 85 Resp: 80128
Ion Ratio Lower Upper
85 100
87 30.4 25.0 37.4

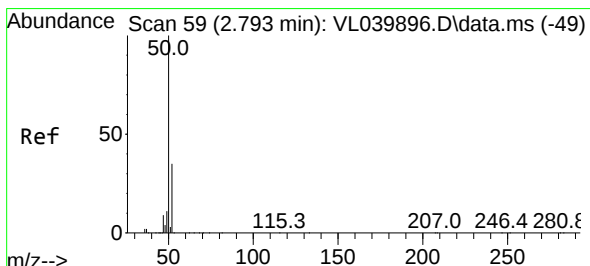
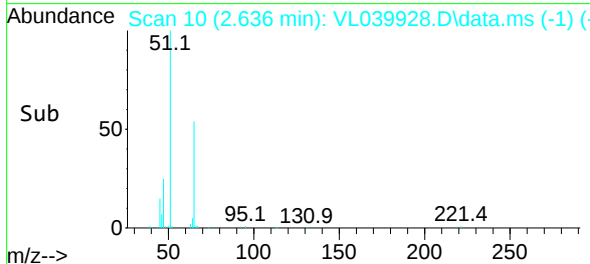
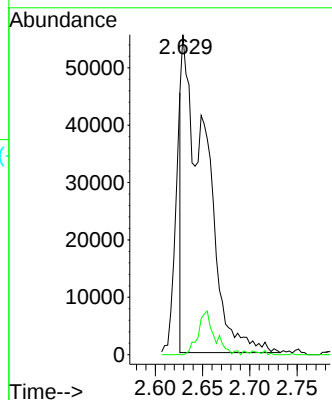
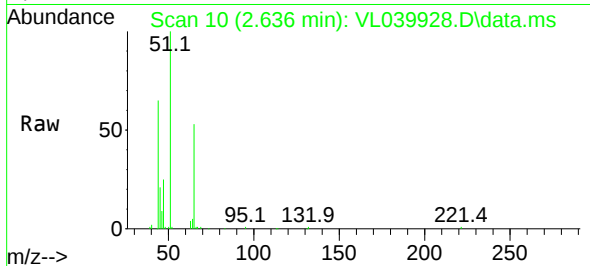




#3
Chlorodifluoromethane
Concen: 0.728 ppbv
RT: 2.636 min Scan# 10
Delta R.T. -0.006 min
Lab File: VL039928.D
Acq: 22 Nov 2022 22:48

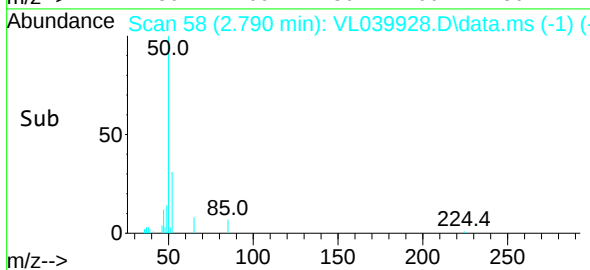
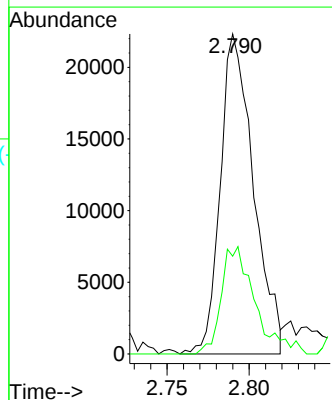
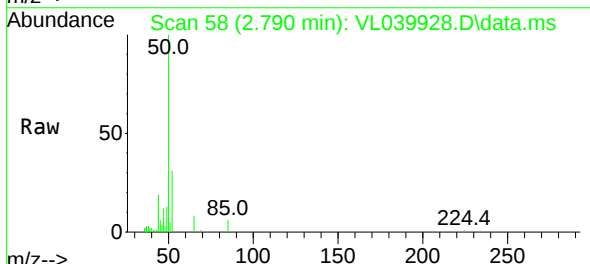
Instrument :
MSVOA_L
ClientSampleId :
OA1

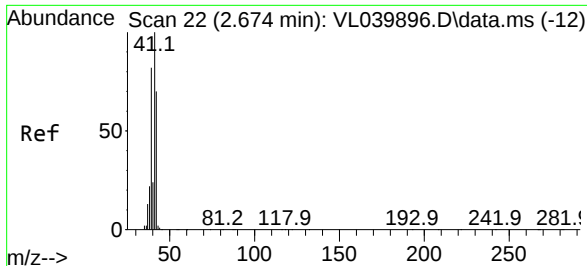
Tgt Ion: 51 Resp: 97021
Ion Ratio Lower Upper
51 100
67 10.4 14.2 21.4#



#4
Chloromethane
Concen: 0.369 ppbv
RT: 2.790 min Scan# 58
Delta R.T. 0.010 min
Lab File: VL039928.D
Acq: 22 Nov 2022 22:48

Tgt Ion: 50 Resp: 31398
Ion Ratio Lower Upper
50 100
52 30.6 27.8 41.8





#9

Propene

Concen: 0.947 ppbv

RT: 2.851 min Scan# 71

Delta R.T. 0.190 min

Lab File: VL039928.D

Acq: 22 Nov 2022 22:48

Instrument :

MSVOA_L

ClientSampleId :

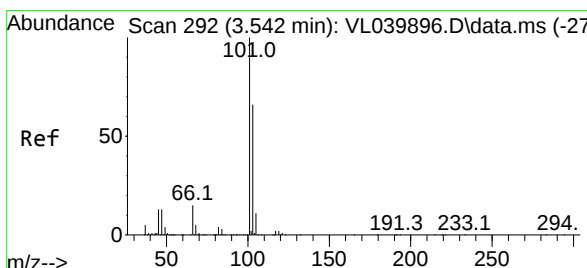
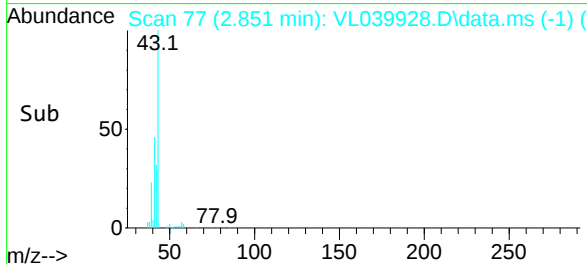
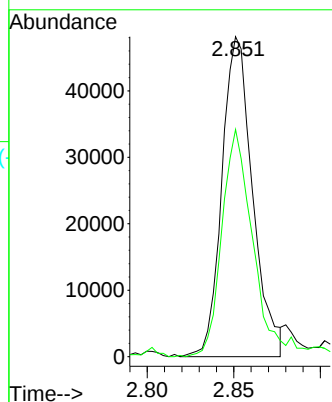
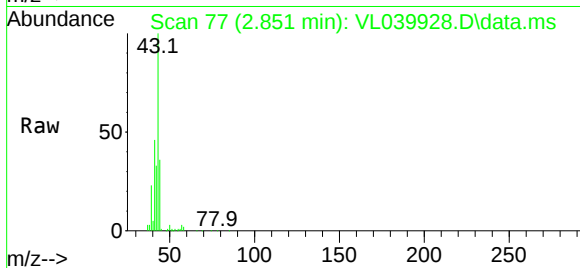
OA1

Tgt Ion: 41 Resp: 59441

Ion Ratio Lower Upper

41 100

42 73.6 55.8 83.6



#11

Trichlorofluoromethane

Concen: 0.237 ppbv

RT: 3.539 min Scan# 291

Delta R.T. 0.010 min

Lab File: VL039928.D

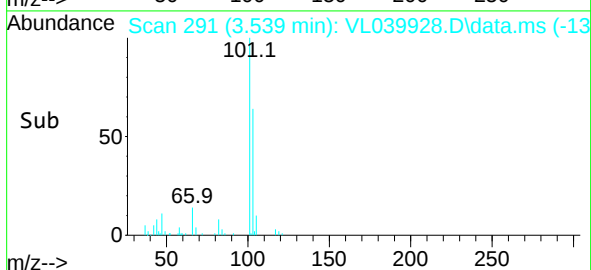
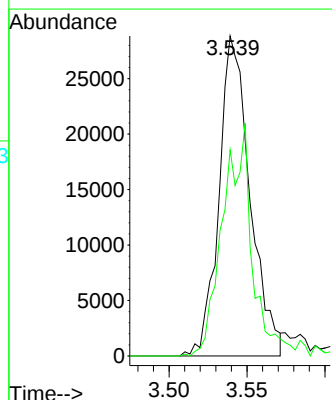
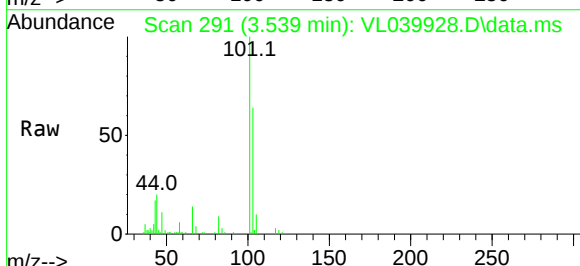
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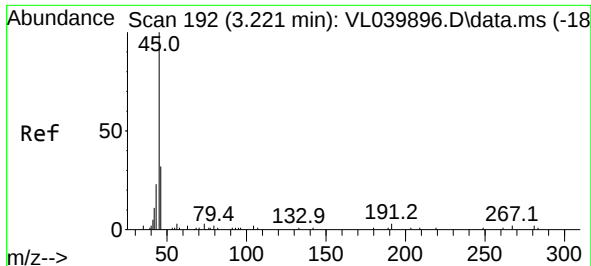
Tgt Ion: 101 Resp: 40002

Ion Ratio Lower Upper

101 100

103 64.4 52.6 78.8

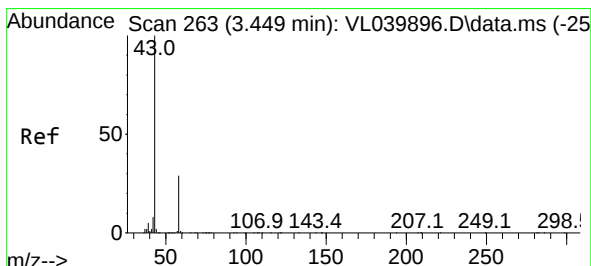
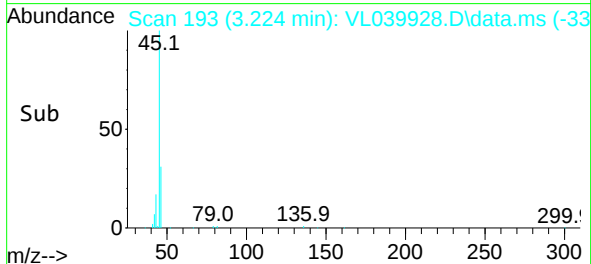
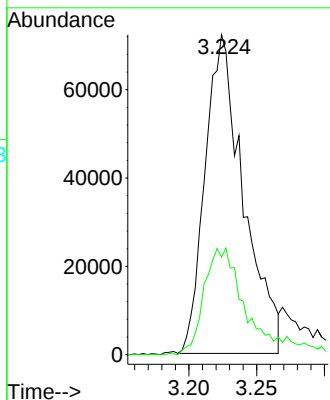
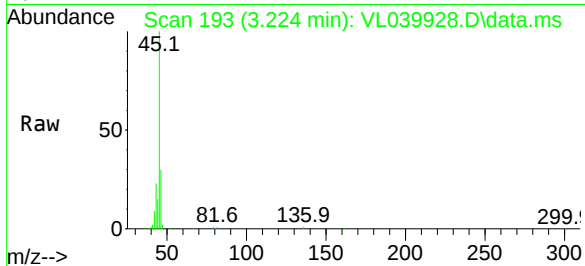




#13
 Ethanol
 Concen: 29.698 ppbv
 RT: 3.224 min Scan# 192
 Delta R.T. 0.016 min
 Lab File: VL039928.D
 Acq: 22 Nov 2022 22:48

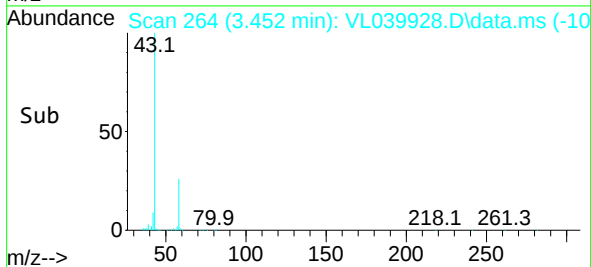
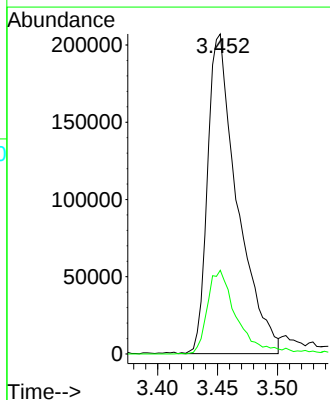
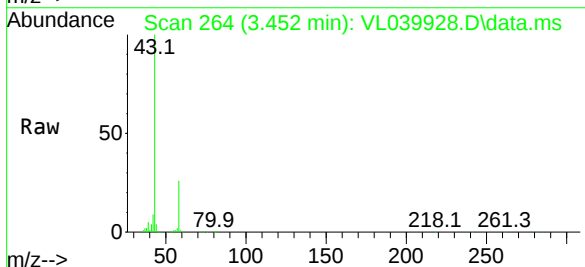
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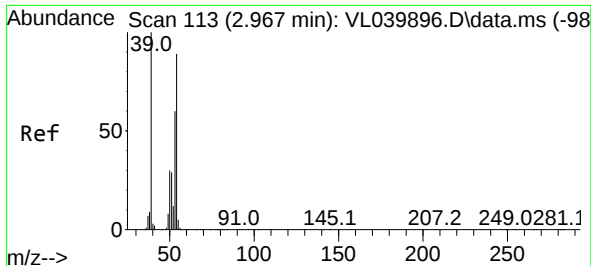
Tgt Ion: 45 Resp: 142317
 Ion Ratio Lower Upper
 45 100
 46 40.5 14.6 58.2



#15
 Acetone
 Concen: 2.784 ppbv
 RT: 3.452 min Scan# 264
 Delta R.T. 0.019 min
 Lab File: VL039928.D
 Acq: 22 Nov 2022 22:48

Tgt Ion: 43 Resp: 356596
 Ion Ratio Lower Upper
 43 100
 58 28.2 22.9 34.3

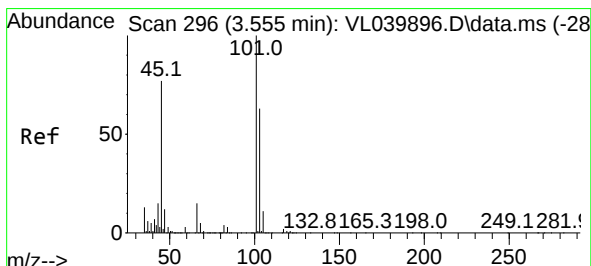
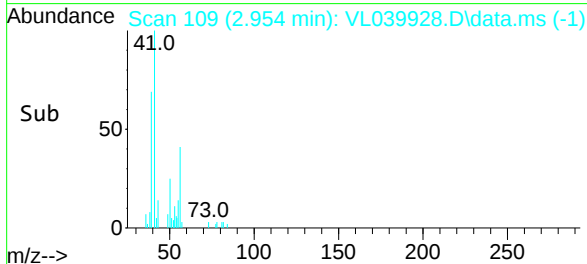
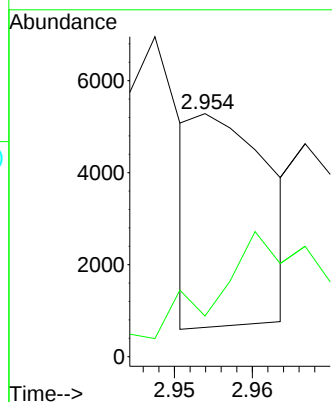
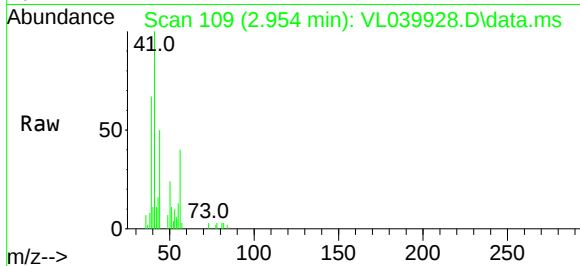




#16
1,3-Butadiene
Concen: 0.048 ppbv
RT: 2.954 min Scan# 109
Delta R.T. -0.000 min
Lab File: VL039928.D
Acq: 22 Nov 2022 22:48

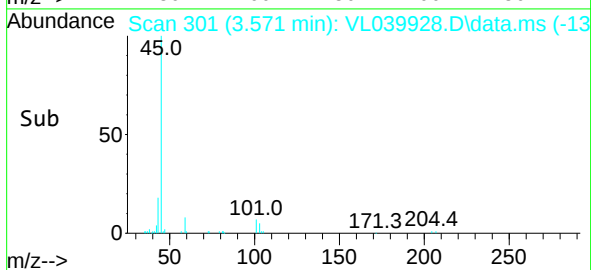
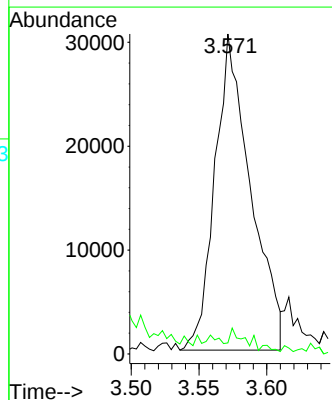
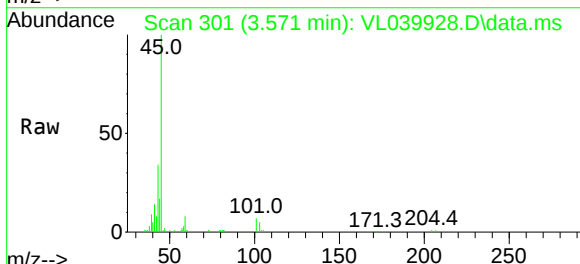
Instrument :
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ClientSampleId :
OA1

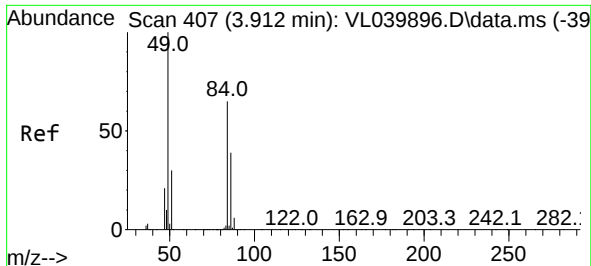
Tgt Ion: 39 Resp: 3075
Ion Ratio Lower Upper
39 100
54 140.6 66.6 99.8#



#19
Isopropyl Alcohol
Concen: 0.806 ppbv
RT: 3.571 min Scan# 301
Delta R.T. 0.029 min
Lab File: VL039928.D
Acq: 22 Nov 2022 22:48

Tgt Ion: 45 Resp: 55871
Ion Ratio Lower Upper
45 100
58 5.6 38.7 58.1#

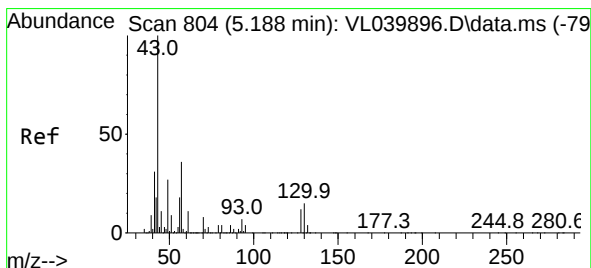
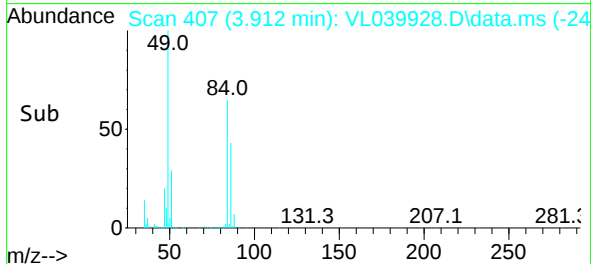
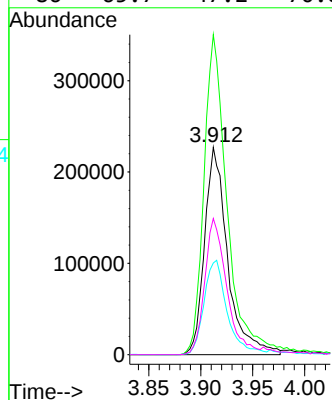
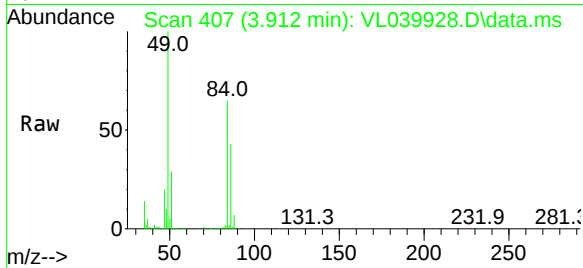




#20
Methylene Chloride
Concen: 5.675 ppbv
RT: 3.912 min Scan# 407
Delta R.T. 0.013 min
Lab File: VL039928.D
Acq: 22 Nov 2022 22:48

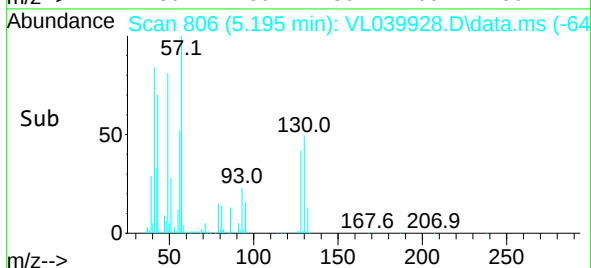
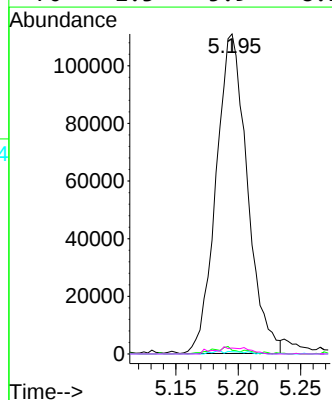
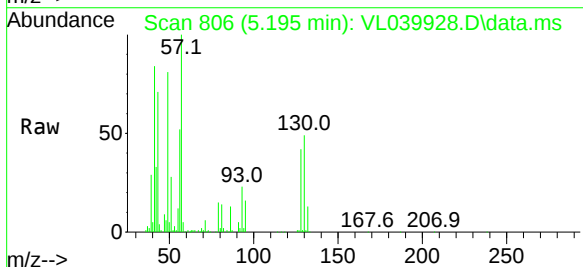
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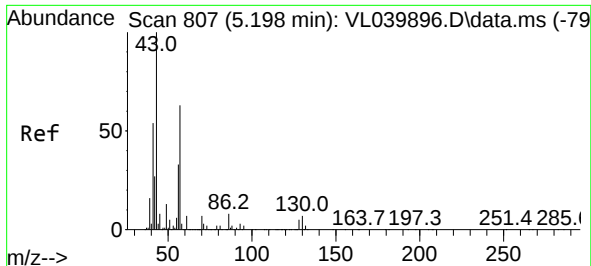
Tgt Ion: 84 Resp: 352132
Ion Ratio Lower Upper
84 100
49 154.2 122.2 183.4
51 44.2 36.3 54.5
86 65.7 47.2 70.8



#25
Ethyl Acetate
Concen: 0.821 ppbv
RT: 5.195 min Scan# 806
Delta R.T. 0.026 min
Lab File: VL039928.D
Acq: 22 Nov 2022 22:48

Tgt Ion: 43 Resp: 193032
Ion Ratio Lower Upper
43 100
45 2.2 8.4 12.6#
61 0.9 8.5 12.7#
70 2.3 5.9 8.9#

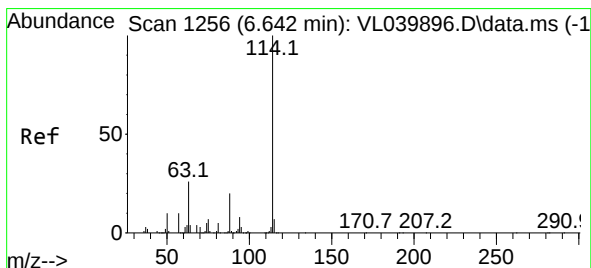
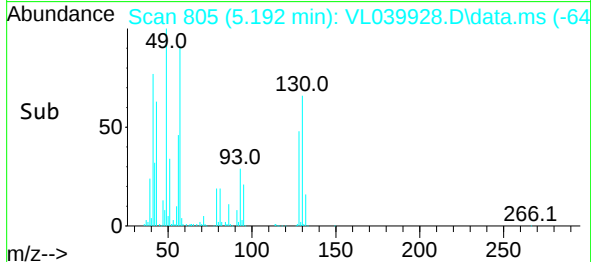
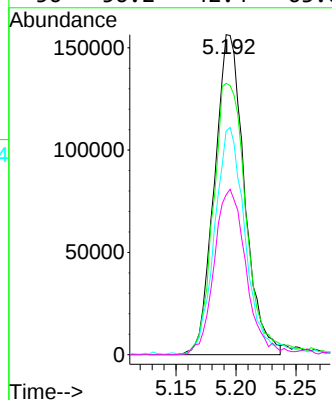
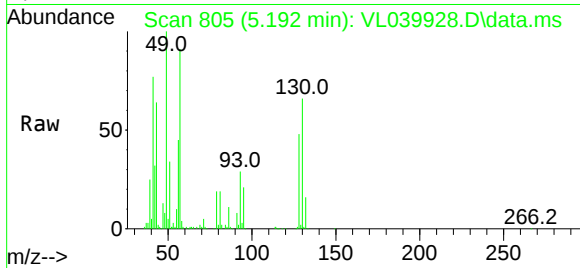




#26
Hexane
Concen: 2.648 ppbv
RT: 5.192 min Scan# 807
Delta R.T. 0.010 min
Lab File: VL039928.D
Acq: 22 Nov 2022 22:48

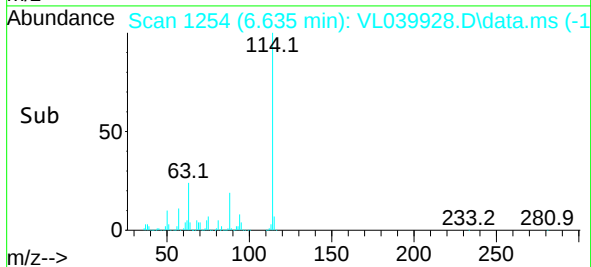
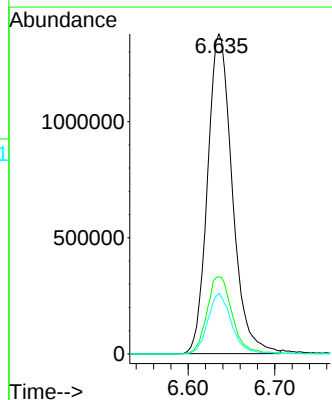
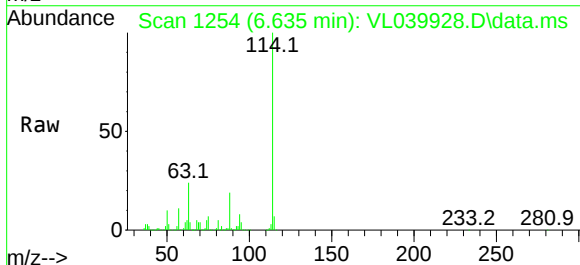
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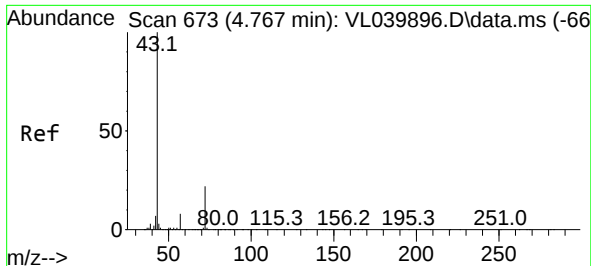
Tgt Ion: 57 Resp: 272030
Ion Ratio Lower Upper
57 100
41 94.6 72.3 108.5
43 73.8 188.7 283.1#
56 56.2 42.4 63.6



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.635 min Scan# 1254
Delta R.T. 0.016 min
Lab File: VL039928.D
Acq: 22 Nov 2022 22:48

Tgt Ion: 114 Resp: 2730669
Ion Ratio Lower Upper
114 100
63 25.0 21.4 32.0
88 18.4 15.3 22.9

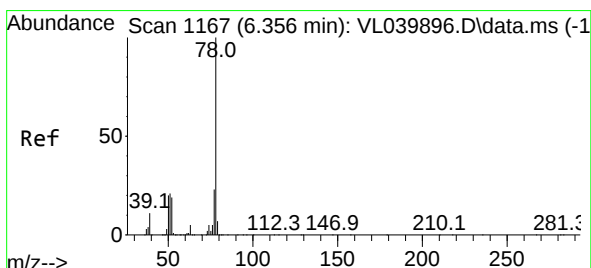
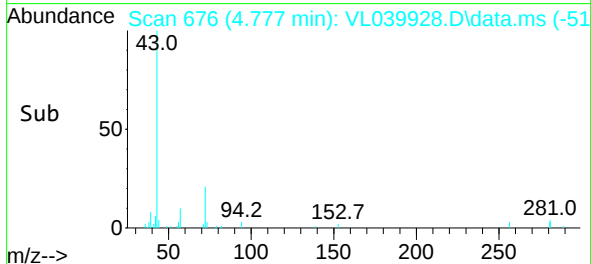
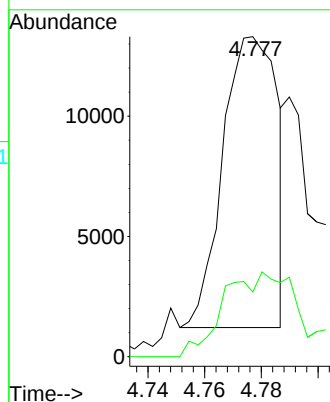
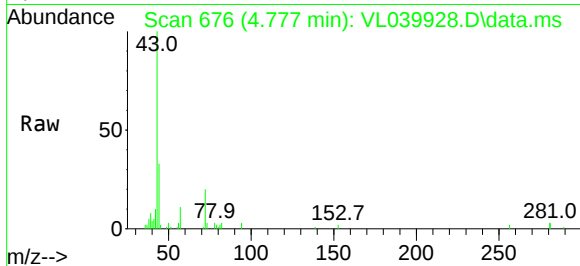




#34
2-Butanone
Concen: 0.123 ppbv
RT: 4.777 min Scan# 61
Delta R.T. 0.026 min
Lab File: VL039928.D
Acq: 22 Nov 2022 22:48

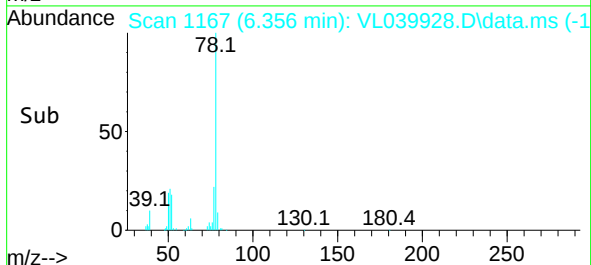
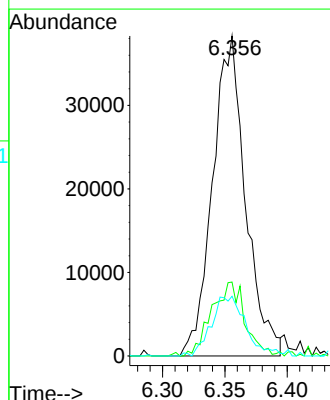
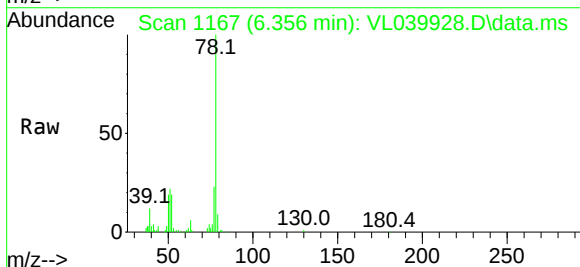
Instrument :
MSVOA_L
ClientSampleId :
OA1

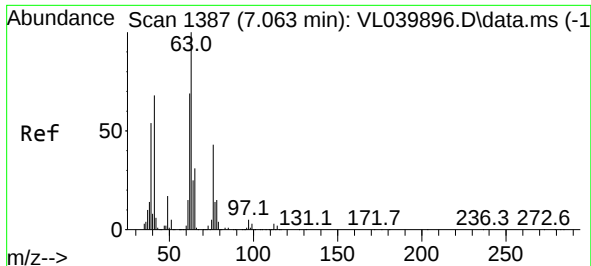
Tgt Ion: 43 Resp: 16024
Ion Ratio Lower Upper
43 100
72 46.6 17.4 26.2#



#36
Benzene
Concen: 0.303 ppbv
RT: 6.356 min Scan# 1167
Delta R.T. 0.019 min
Lab File: VL039928.D
Acq: 22 Nov 2022 22:48

Tgt Ion: 78 Resp: 70380
Ion Ratio Lower Upper
78 100
77 23.1 18.2 27.2
50 18.6 15.8 23.8





#39

1,2-Dichloropropane

Concen: 7.385 ppbv

RT: 6.635 min Scan# 11

Delta R.T. -0.405 min

Lab File: VL039928.D

Acq: 22 Nov 2022 22:48

Instrument :

MSVOA_L

ClientSampleId :

OA1

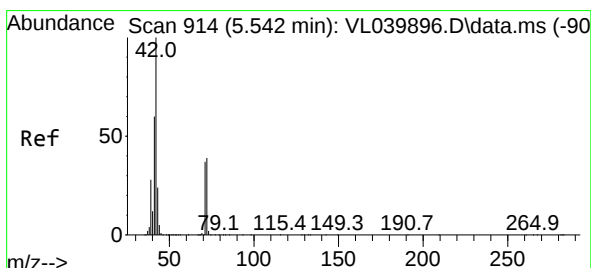
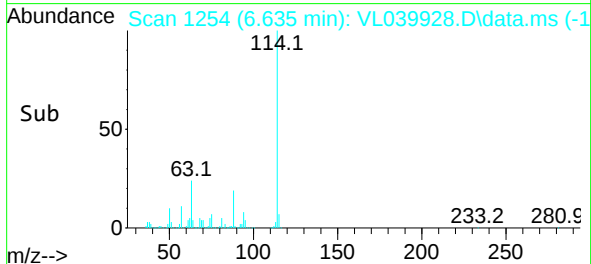
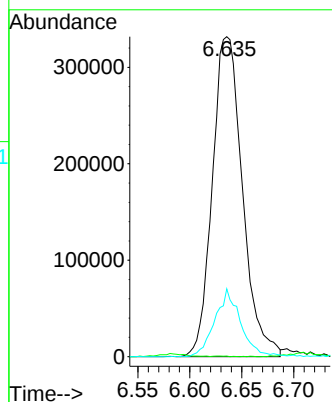
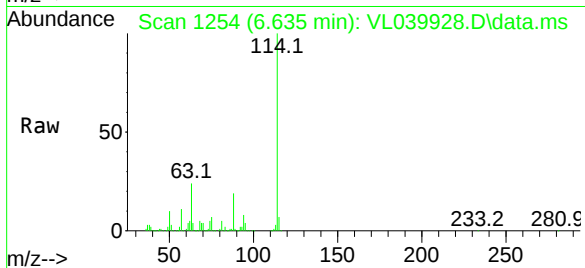
Tgt Ion: 63 Resp: 667793

Ion Ratio Lower Upper

63 100

41 0.0 54.7 82.1#

62 21.2 55.0 82.6#



#41

Tetrahydrofuran

Concen: 1.153 ppbv

RT: 5.198 min Scan# 807

Delta R.T. -0.325 min

Lab File: VL039928.D

Acq: 22 Nov 2022 22:48

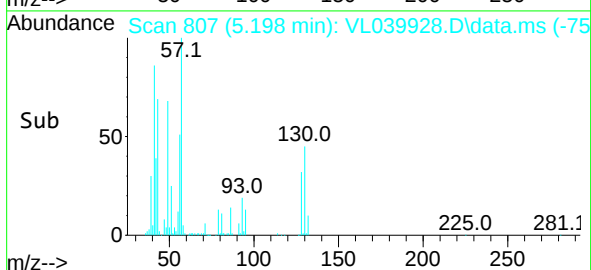
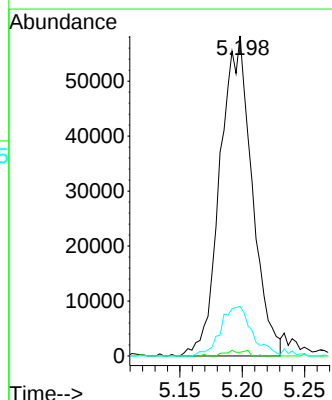
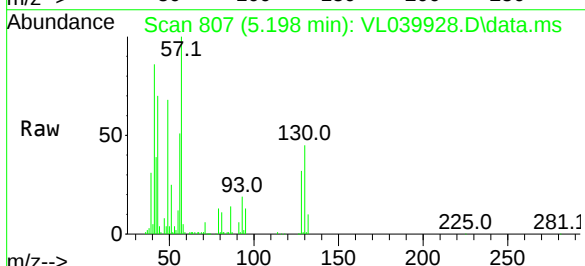
Tgt Ion: 42 Resp: 104038

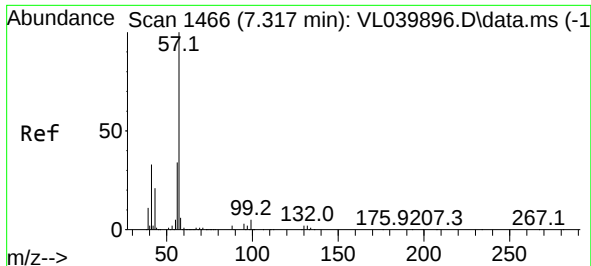
Ion Ratio Lower Upper

42 100

72 1.2 31.6 47.4#

71 15.9 31.2 46.8#





#44

2,2,4-Trimethylpentane

Concen: 0.059 ppbv

RT: 7.311 min Scan# 1466

Delta R.T. 0.016 min

Lab File: VL039928.D

Acq: 22 Nov 2022 22:48

Instrument :

MSVOA_L

ClientSampleId :

OA1

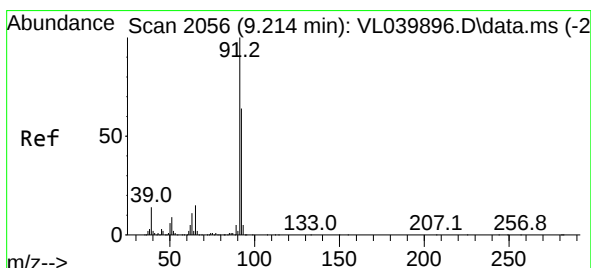
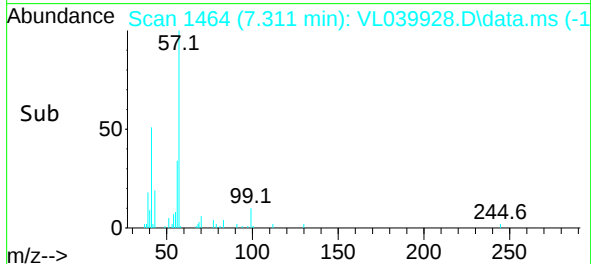
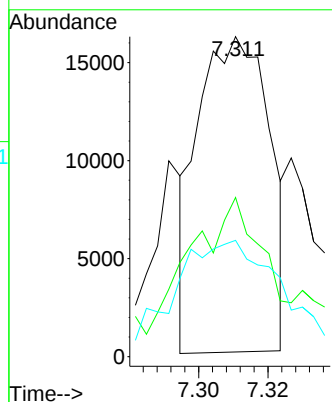
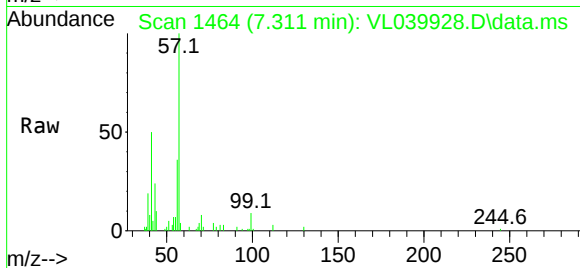
Tgt Ion: 57 Resp: 22988

Ion Ratio Lower Upper

57 100

41 78.2 26.2 39.2#

56 65.6 25.5 38.3#



#53

Toluene

Concen: 0.230 ppbv

RT: 9.208 min Scan# 2054

Delta R.T. 0.016 min

Lab File: VL039928.D

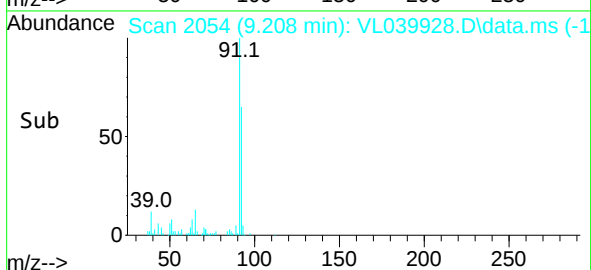
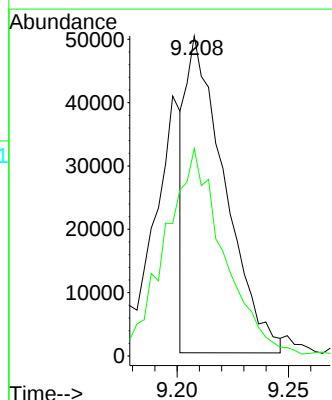
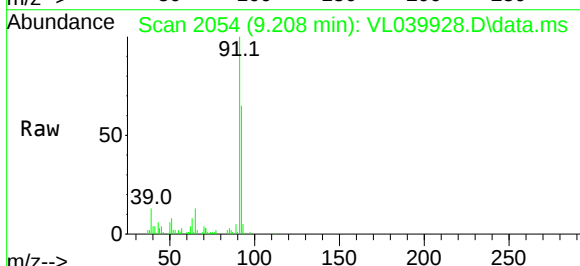
Acq: 22 Nov 2022 22:48

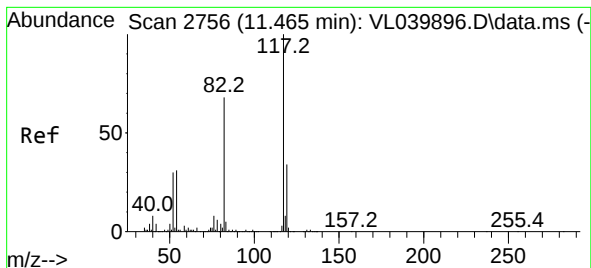
Tgt Ion: 91 Resp: 60941

Ion Ratio Lower Upper

91 100

92 101.8 49.8 74.6#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.455 min Scan# 21

Delta R.T. 0.016 min

Lab File: VL039928.D

Acq: 22 Nov 2022 22:48

Instrument :

MSVOA_L

ClientSampleId :

OA1

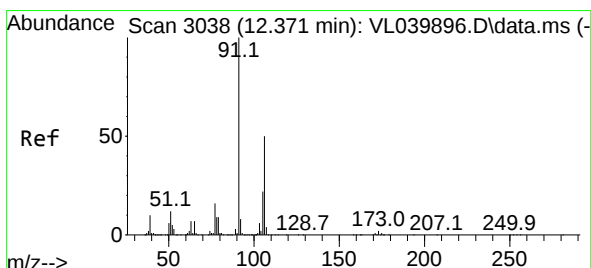
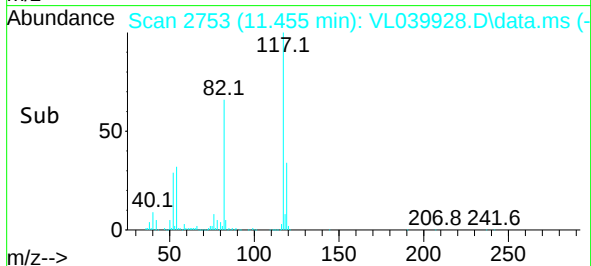
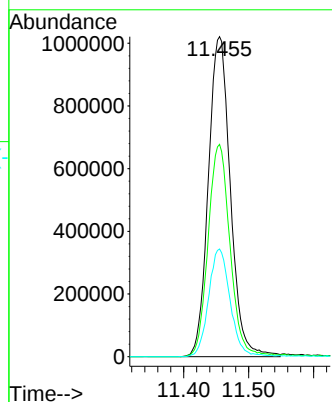
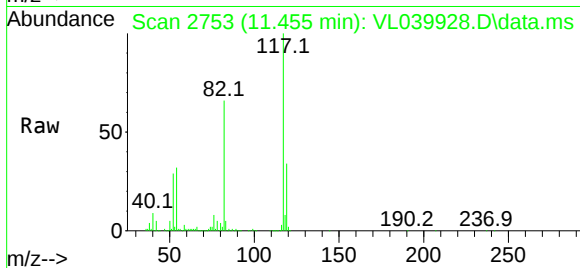
Tgt Ion:117 Resp: 2404751

Ion Ratio Lower Upper

117 100

82 66.8 52.3 78.5

119 33.4 25.7 38.5



#59

m/p-Xylene

Concen: 0.050 ppbv

RT: 12.359 min Scan# 3034

Delta R.T. 0.013 min

Lab File: VL039928.D

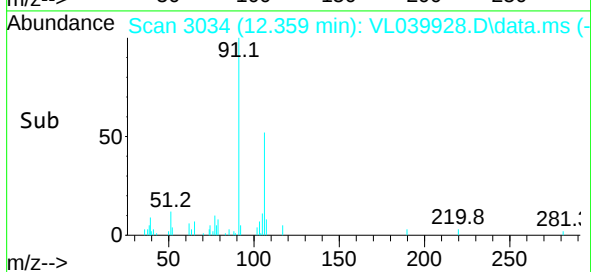
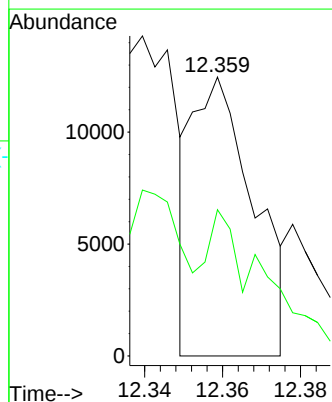
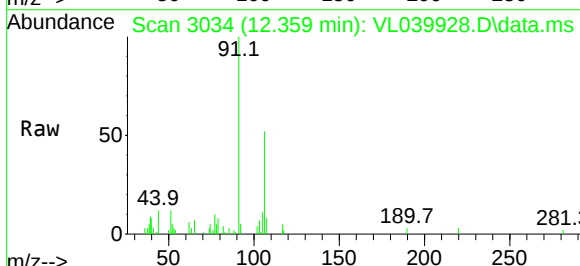
Acq: 22 Nov 2022 22:48

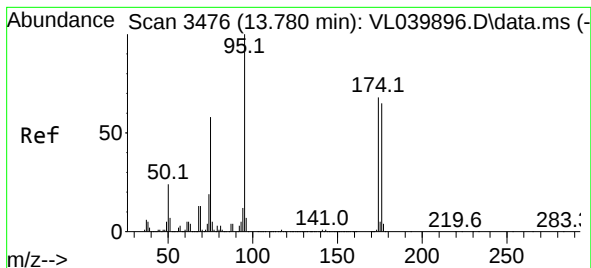
Tgt Ion: 91 Resp: 13728

Ion Ratio Lower Upper

91 100

106 0.0 37.0 55.6#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.332 ppbv
 RT: 13.767 min Scan# 34
 Delta R.T. 0.013 min
 Lab File: VL039928.D
 Acq: 22 Nov 2022 22:48

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tgt Ion: 95 Resp: 1897818

Ion	Ratio	Lower	Upper
95	100		
174	61.1	53.7	80.5
175	4.4	4.0	6.0

