

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110322\
 Data File : VL039825.D
 Acq On : 3 Nov 2022 14:34
 Operator : SY/AP
 Sample : N5409-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E062-1100DUP

Quant Time: Nov 04 08:44:03 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Nov 03 09:27:12 2022
 Response via : Initial Calibration

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

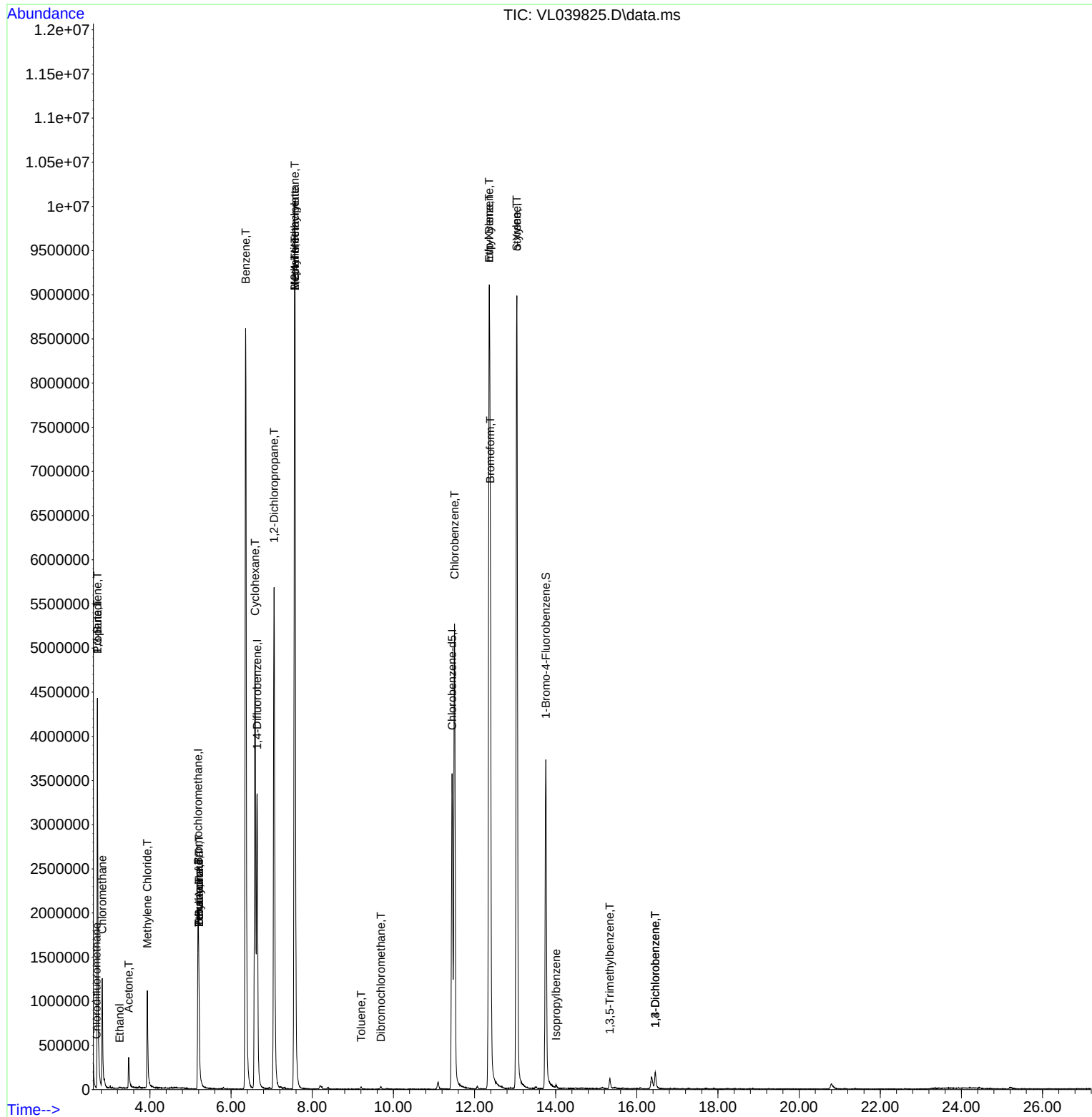
Internal Standards							
1) Bromochloromethane		5.185	49	961082	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		6.642	114	2712353	10.000	ppbv	0.00
55) Chlorobenzene-d5		11.445	117	2507205	10.000	ppbv	0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.760	95	2053709	10.944	ppbv	0.00
Spiked Amount 10.000		Range	65 - 135	Recovery	= 109.400%		
Target Compounds							
							Qvalue
3) Chlorodifluoromethane		2.684	51	4767	0.042	ppbv #	84
4) Chloromethane		2.825	50	1199427	16.813	ppbv	99
9) Propene		2.706	41	2102396	35.218	ppbv	99
10) Heptane		7.568	43	5459366	38.175	ppbv	98
13) Ethanol		3.256	45	5327	1.263	ppbv #	34
15) Acetone		3.475	43	392333	3.354	ppbv	97
16) 1,3-Butadiene		2.706	39	1692769	31.115	ppbv #	5
20) Methylene Chloride		3.938	84	406114	9.704	ppbv	94
25) Ethyl Acetate		5.208	43	255185	1.059	ppbv #	76
26) Hexane		5.208	57	368243	3.427	ppbv #	37
30) Cyclohexane		6.590	84	1943953	21.637	ppbv	93
34) 2-Butanone		5.208	43	255185	2.281	ppbv #	54
36) Benzene		6.359	78	8188409	35.789	ppbv	94
39) 1,2-Dichloropropane		7.060	63	2387655	26.784	ppbv	96
41) Tetrahydrofuran		5.208	42	135091	1.445	ppbv #	48
43) Methyl Methacrylate		7.568	69	33390	0.369	ppbv #	1
44) 2,2,4-Trimethylpentane		7.568	57	2789460	7.223	ppbv #	1
48) Dibromochloromethane		9.693	129	7073	0.046	ppbv #	10
49) Bromoform		12.391	173	3492009	28.245	ppbv	99
53) Toluene		9.204	91	13792	0.053	ppbv #	62
57) Chlorobenzene		11.507	112	3630495	19.090	ppbv	97
58) Ethyl Benzene		12.359	91	6951007	20.505	ppbv #	67
59) m/p-Xylene		12.359	91	6951007	24.564	ppbv	98
60) o-Xylene		13.043	91	7720000	28.795	ppbv	97
61) Styrene		13.043	104	179036	1.085	ppbv #	1
62) Isopropylbenzene		14.011	105	21852	0.056	ppbv #	48
73) 1,3,5-Trimethylbenzene		15.336	105	47622	0.178	ppbv #	81
75) 1,3-Dichlorobenzene		16.455	146	95896	0.578	ppbv	92
76) 1,4-Dichlorobenzene		16.455	146	95896	0.589	ppbv	94

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

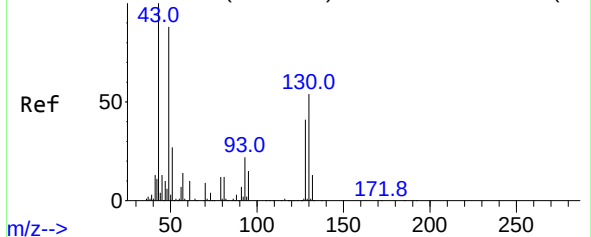
Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL110322\
Data File : VL039825.D
Acq On : 3 Nov 2022 14:34
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110222AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Nov 03 09:27:12 2022
Response via : Initial Calibration

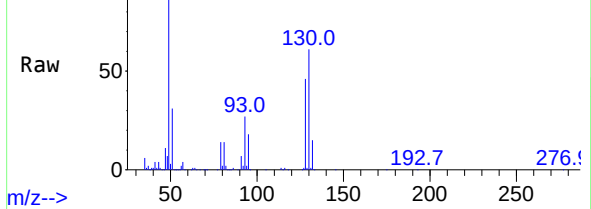


Abundance Scan 804 (5.188 min): VL039810.D\data.ms (-78)



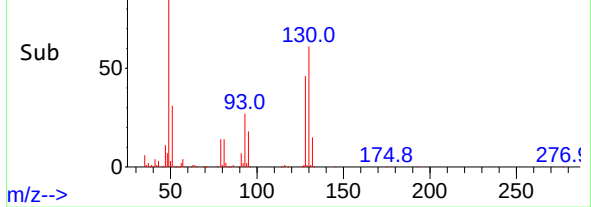
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Abundance Scan 803 (5.185 min): VL039825.D\data.ms



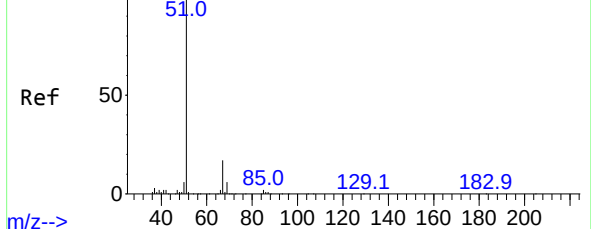
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Abundance Scan 803 (5.185 min): VL039825.D\data.ms (-64)



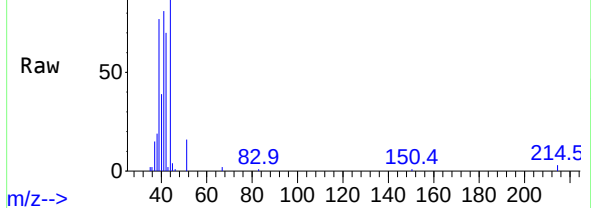
m/z-->

Abundance Scan 26 (2.687 min): VL039810.D\data.ms (-7)



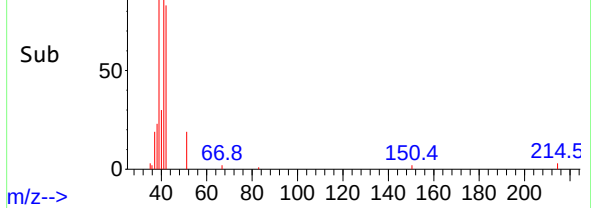
m/z-->

Abundance Scan 25 (2.684 min): VL039825.D\data.ms



m/z-->

Abundance Scan 25 (2.684 min): VL039825.D\data.ms (-1)



m/z-->

#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.185 min Scan# 80

Delta R.T. -0.003 min

Lab File: VL039825.D

Acq: 3 Nov 2022 14:34

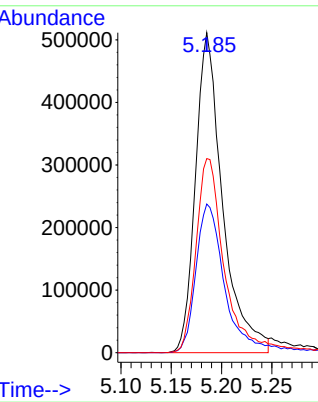
Tgt Ion: 49 Resp: 961082

Ion Ratio Lower Upper

49 100

128 51.5 24.6 73.6

130 66.2 31.1 93.2



#3

Chlorodifluoromethane

Concen: 0.042 ppbv

RT: 2.684 min Scan# 25

Delta R.T. -0.003 min

Lab File: VL039825.D

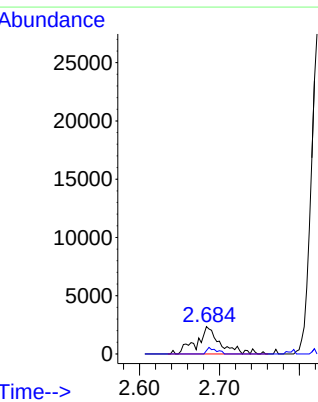
Acq: 3 Nov 2022 14:34

Tgt Ion: 51 Resp: 4767

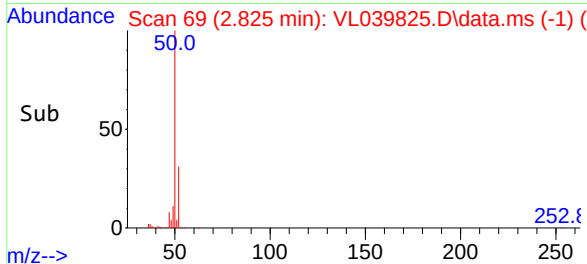
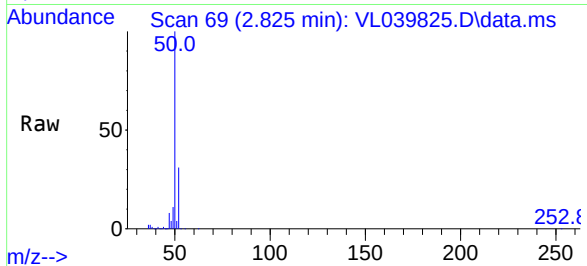
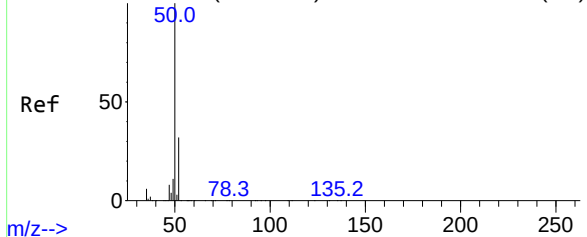
Ion Ratio Lower Upper

51 100

67 9.5 13.2 19.8



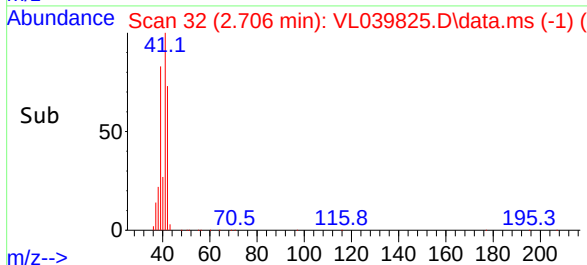
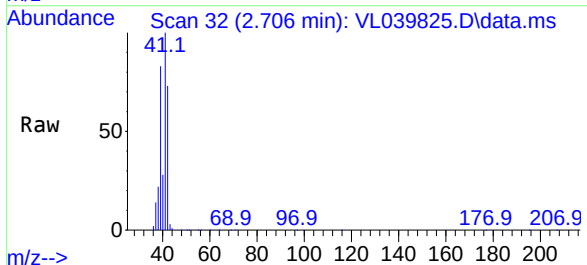
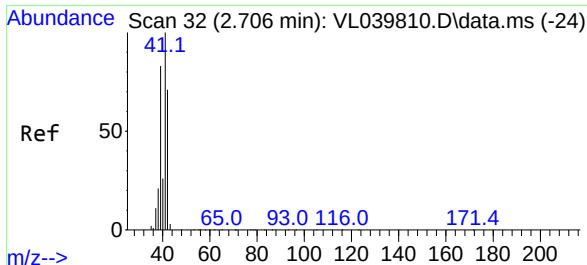
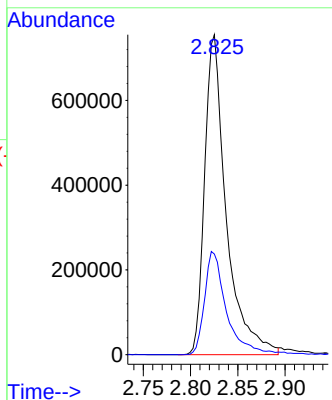
Abundance Scan 69 (2.825 min): VL039810.D\data.ms (-60)



#4
Chloromethane
Concen: 16.813 ppbv
RT: 2.825 min Scan# 69
Delta R.T. 0.000 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

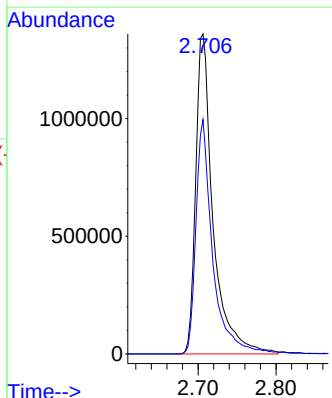
Instrument :
MSVOA_L
ClientSampleId :
E062-1100DUP

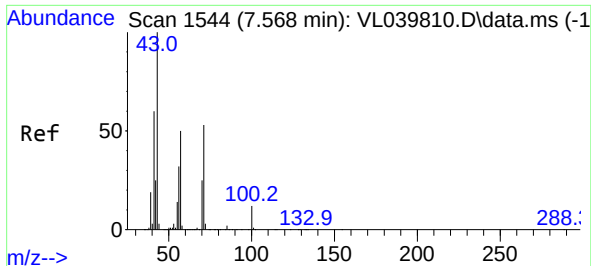
Tgt Ion: 50 Resp: 1199427
Ion Ratio Lower Upper
50 100
52 31.5 25.5 38.3



#9
Propene
Concen: 35.218 ppbv
RT: 2.706 min Scan# 32
Delta R.T. 0.000 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

Tgt Ion: 41 Resp: 2102396
Ion Ratio Lower Upper
41 100
42 71.0 56.3 84.5





#10

Heptane

Concen: 38.175 ppbv

RT: 7.568 min Scan# 1

Delta R.T. 0.000 min

Lab File: VL039825.D

Acq: 3 Nov 2022 14:34

Instrument :

MSVOA_L

ClientSampleId :

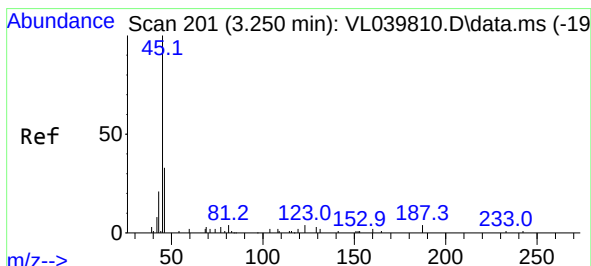
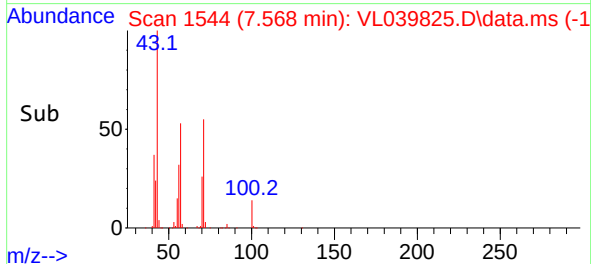
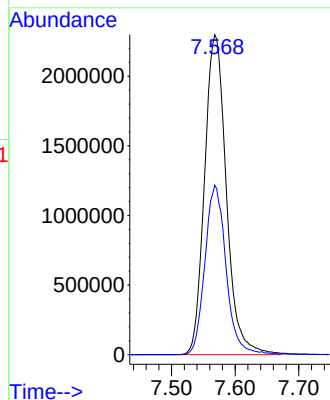
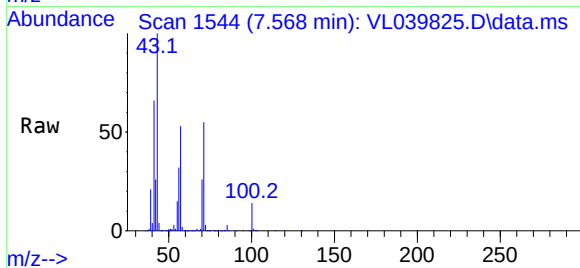
E062-1100DUP

Tgt Ion: 43 Resp: 5459366

Ion Ratio Lower Upper

43 100

57 51.6 40.5 60.7



#13

Ethanol

Concen: 1.263 ppbv

RT: 3.256 min Scan# 203

Delta R.T. 0.006 min

Lab File: VL039825.D

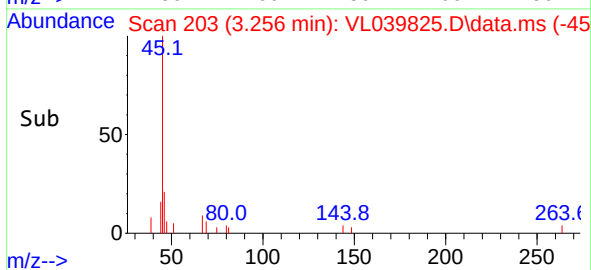
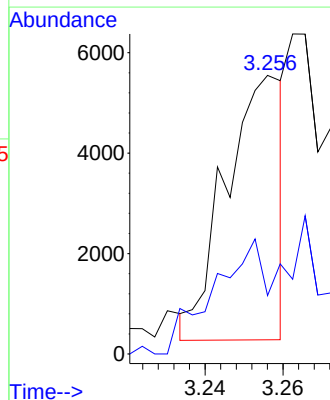
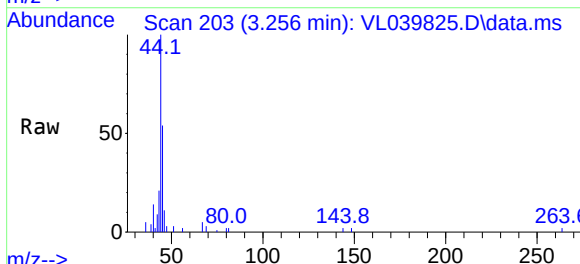
Acq: 3 Nov 2022 14:34

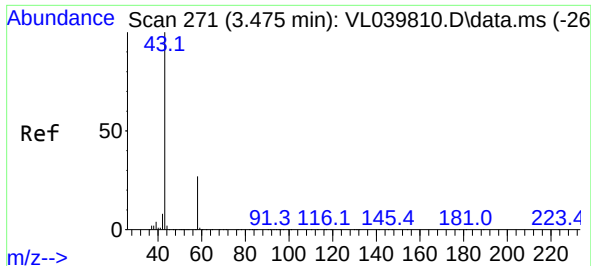
Tgt Ion: 45 Resp: 5327

Ion Ratio Lower Upper

45 100

46 0.0 16.5 65.9#

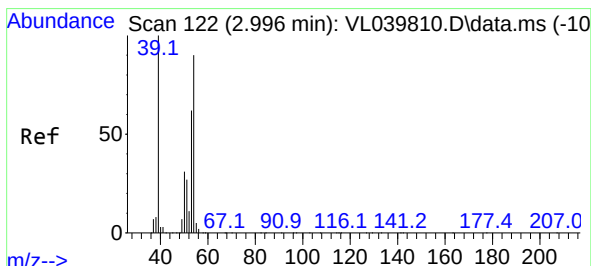
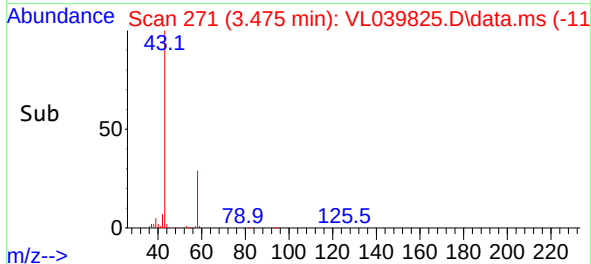
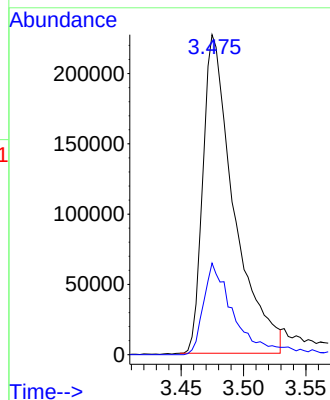
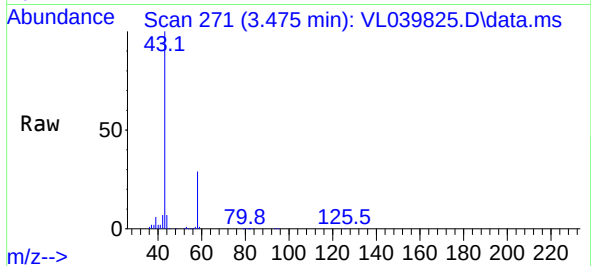




#15
Acetone
Concen: 3.354 ppbv
RT: 3.475 min Scan# 21
Delta R.T. 0.000 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

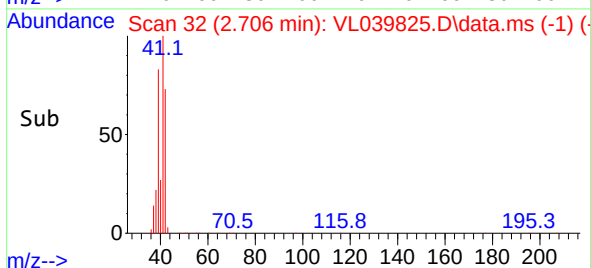
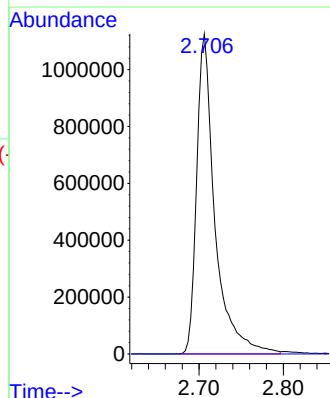
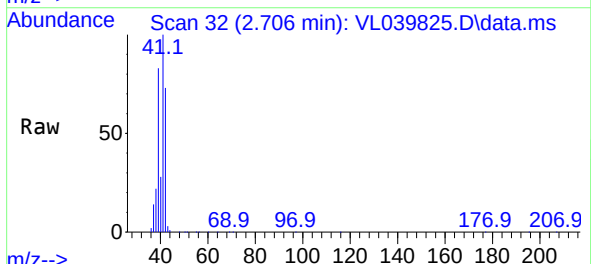
Instrument :
MSVOA_L
ClientSampleId :
E062-1100DUP

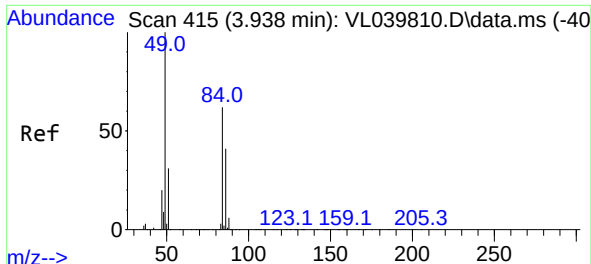
Tgt Ion: 43 Resp: 392333
Ion Ratio Lower Upper
43 100
58 30.5 23.2 34.8



#16
1,3-Butadiene
Concen: 31.115 ppbv
RT: 2.706 min Scan# 32
Delta R.T. -0.289 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

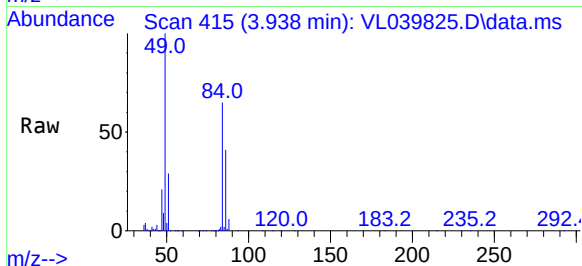
Tgt Ion: 39 Resp: 1692769
Ion Ratio Lower Upper
39 100
54 0.0 71.0 106.4#





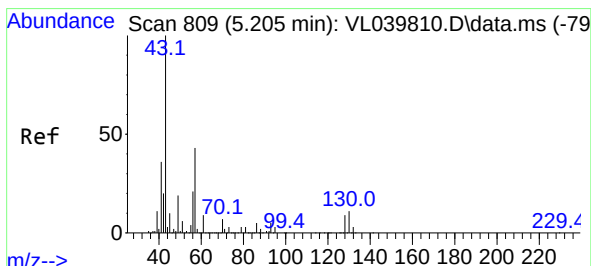
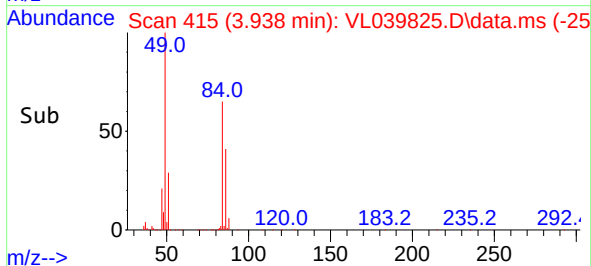
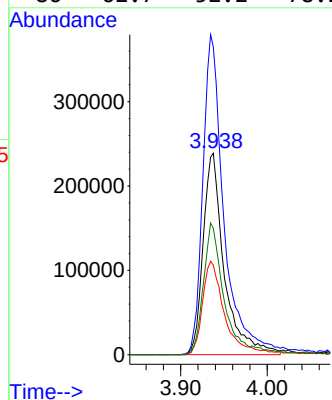
#20
Methylene Chloride
Concen: 9.704 ppbv
RT: 3.938 min Scan# 415
Delta R.T. 0.000 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

Instrument :
MSVOA_1
ClientSampleId :
E062-1100DUP



Tgt Ion: 84 Resp: 406114

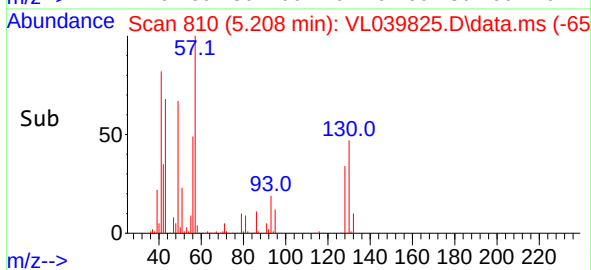
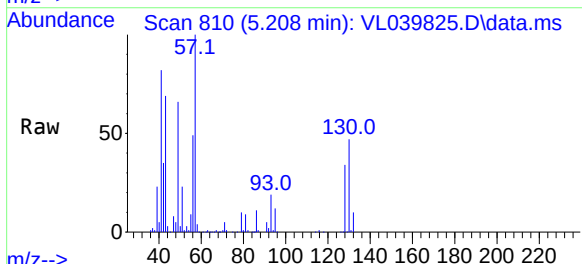
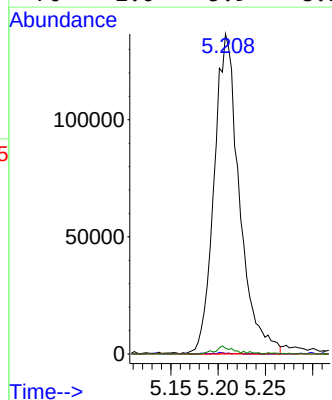
Ion	Ratio	Lower	Upper
84	100		
49	152.9	128.6	192.8
51	44.4	40.2	60.4
86	62.7	52.2	78.2

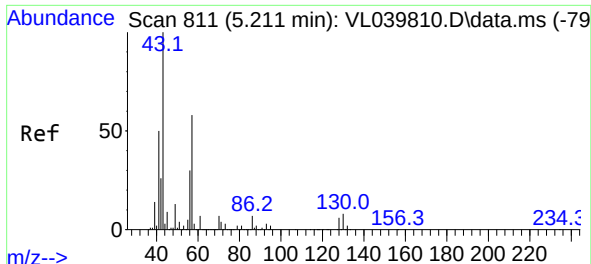


#25
Ethyl Acetate
Concen: 1.059 ppbv
RT: 5.208 min Scan# 810
Delta R.T. 0.003 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

Tgt Ion: 43 Resp: 255185

Ion	Ratio	Lower	Upper
43	100		
45	0.3	8.2	12.2#
61	0.1	8.1	12.1#
70	2.0	5.9	8.9#

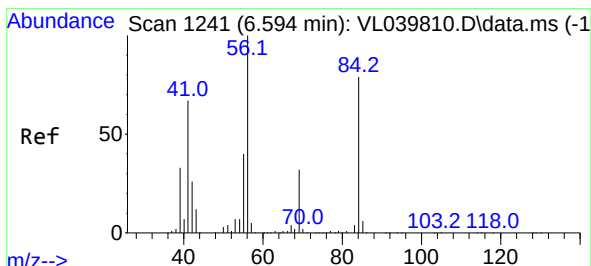
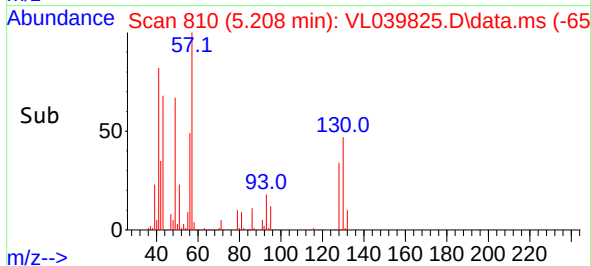
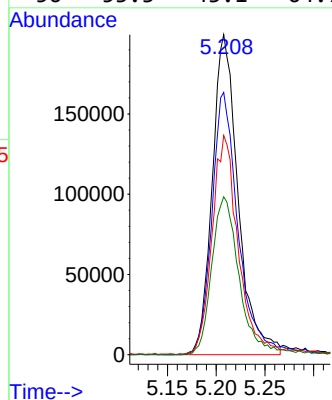
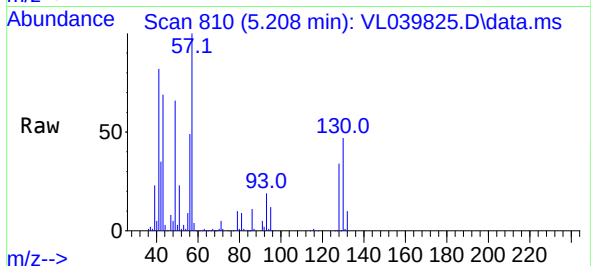




#26
Hexane
Concen: 3.427 ppbv
RT: 5.208 min Scan# 811
Delta R.T. -0.003 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

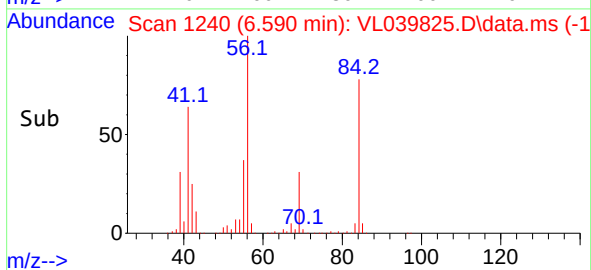
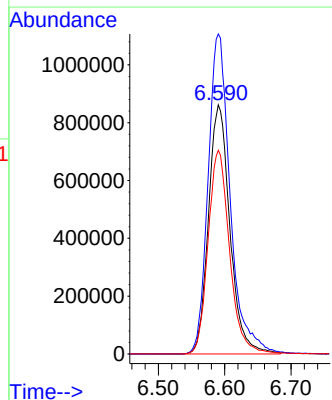
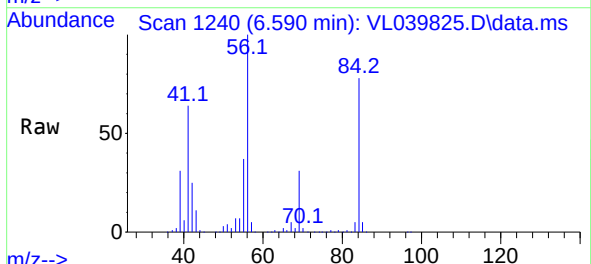
Instrument :
MSVOA_L
ClientSampleId :
E062-1100DUP

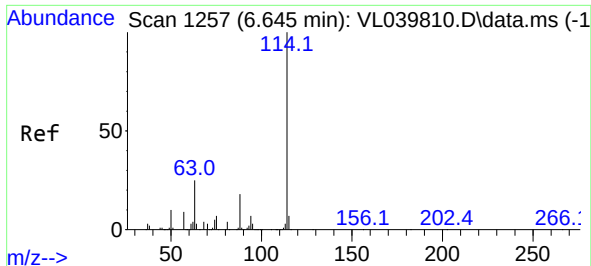
Tgt Ion: 57 Resp: 368243
Ion Ratio Lower Upper
57 100
41 84.9 73.7 110.5
43 71.2 189.8 284.8#
56 53.3 43.1 64.7



#30
Cyclohexane
Concen: 21.637 ppbv
RT: 6.590 min Scan# 1240
Delta R.T. -0.003 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

Tgt Ion: 84 Resp: 1943953
Ion Ratio Lower Upper
84 100
56 132.3 114.8 172.2
41 82.0 68.6 103.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.642 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL039825.D

Acq: 3 Nov 2022 14:34

Instrument :

MSVOA_L

ClientSampleId :

E062-1100DUP

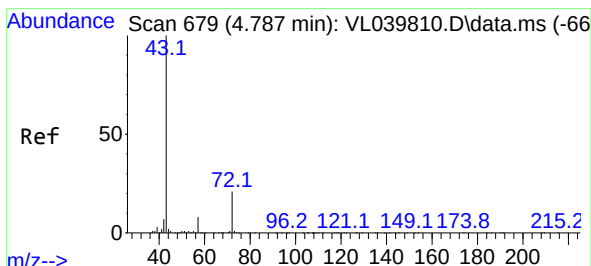
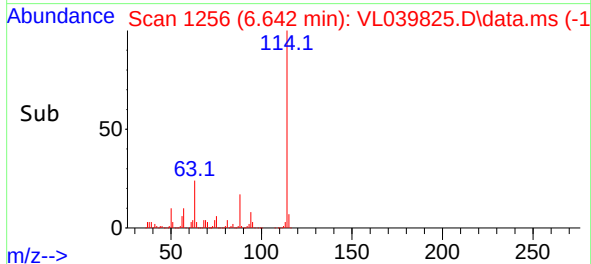
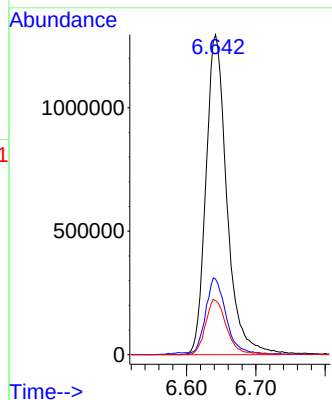
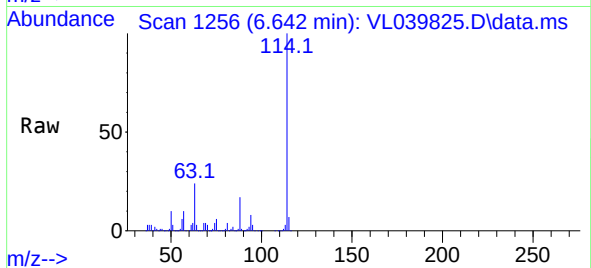
Tgt Ion:114 Resp: 2712353

Ion Ratio Lower Upper

114 100

63 24.3 19.8 29.6

88 17.4 14.4 21.6



#34

2-Butanone

Concen: 2.281 ppbv

RT: 5.208 min Scan# 810

Delta R.T. 0.421 min

Lab File: VL039825.D

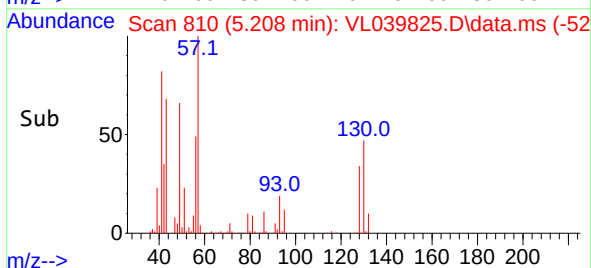
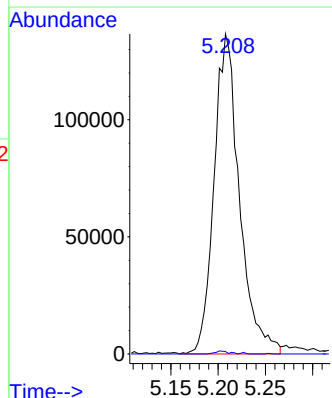
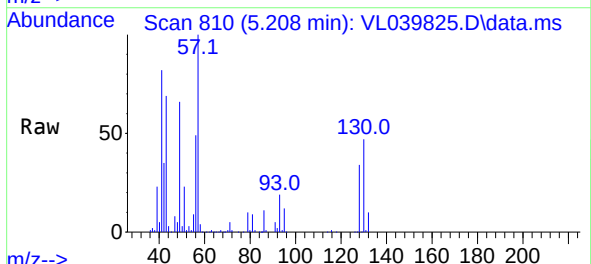
Acq: 3 Nov 2022 14:34

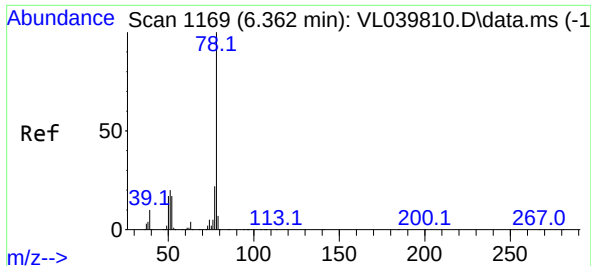
Tgt Ion: 43 Resp: 255185

Ion Ratio Lower Upper

43 100

72 0.0 17.5 26.3#



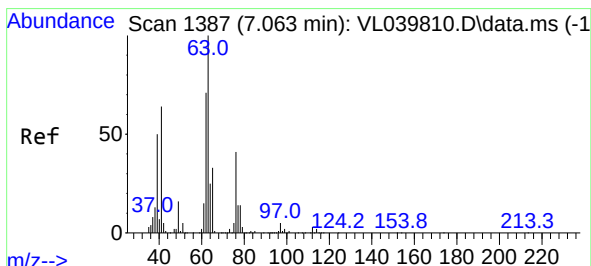
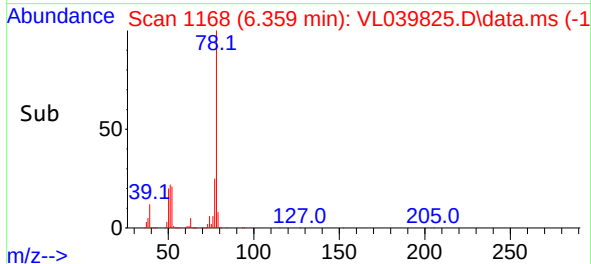
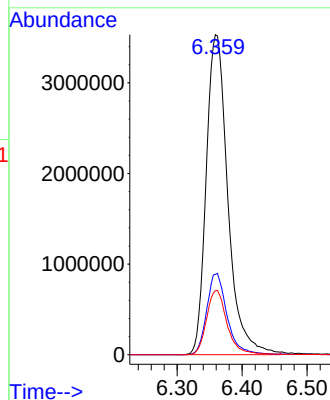
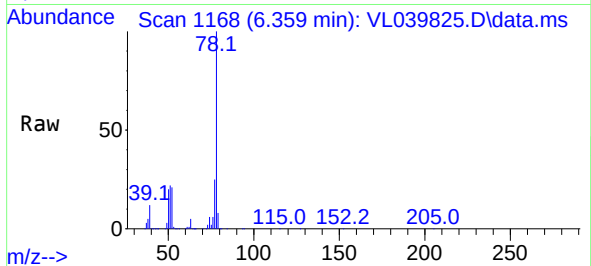


#36
Benzene
Concen: 35.789 ppbv
RT: 6.359 min Scan# 1169
Delta R.T. -0.003 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

Instrument :
MSVOA_L
ClientSampleId :
E062-1100DUP

Tgt Ion: 78 Resp: 8188409

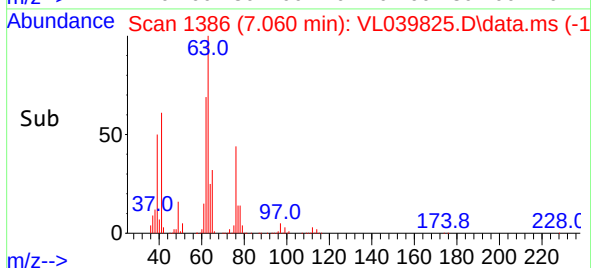
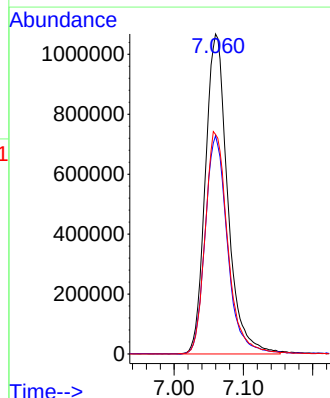
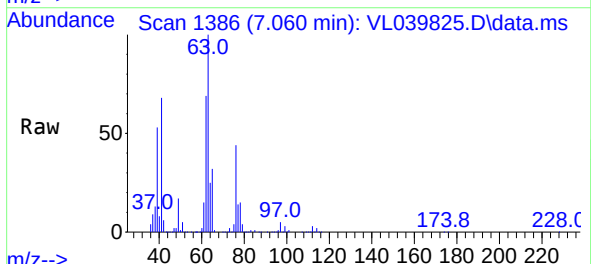
Ion	Ratio	Lower	Upper
78	100		
77	25.1	17.4	26.2
50	20.0	13.9	20.9

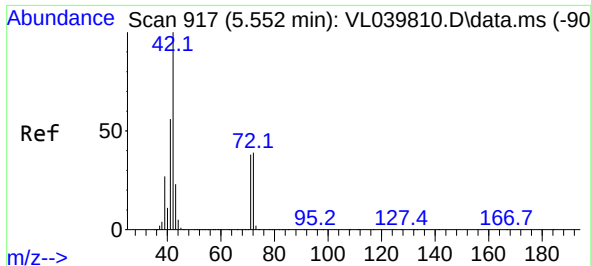


#39
1,2-Dichloropropane
Concen: 26.784 ppbv
RT: 7.060 min Scan# 1386
Delta R.T. -0.003 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

Tgt Ion: 63 Resp: 2387655

Ion	Ratio	Lower	Upper
63	100		
41	68.2	51.0	76.4
62	68.4	56.6	85.0

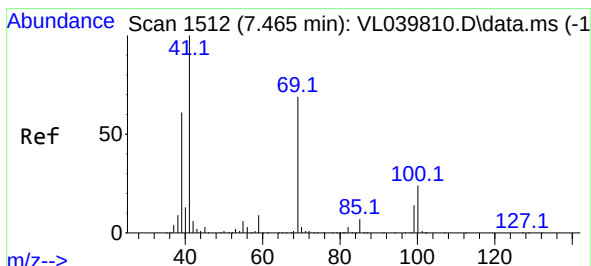
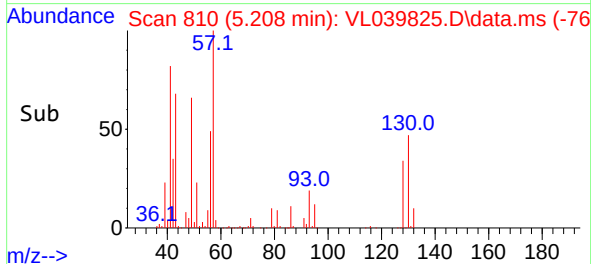
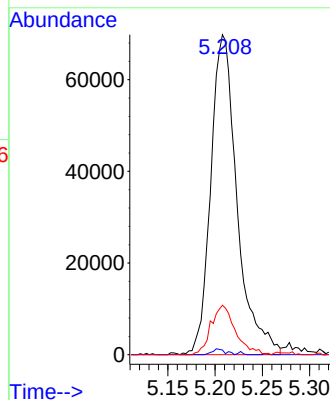
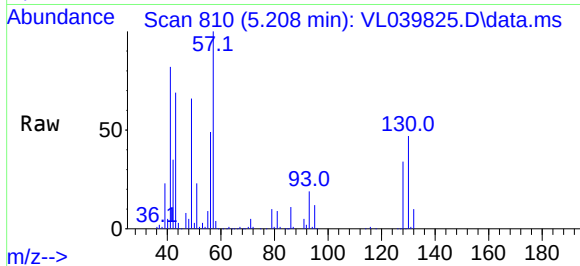




#41
Tetrahydrofuran
Concen: 1.445 ppbv
RT: 5.208 min Scan# 81
Delta R.T. -0.344 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

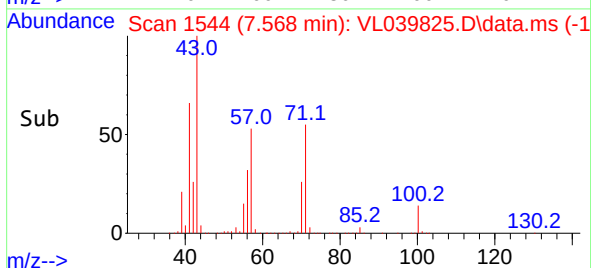
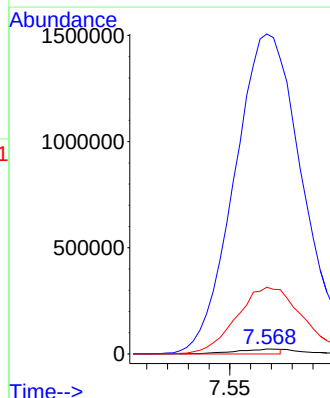
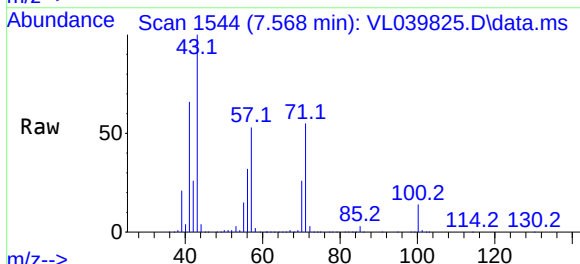
Instrument :
MSVOA_L
ClientSampleId :
E062-1100DUP

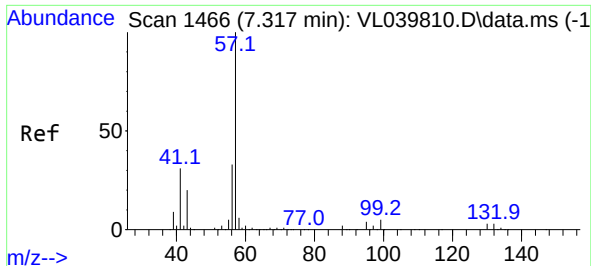
Tgt Ion: 42 Resp: 135091
Ion Ratio Lower Upper
42 100
72 1.1 31.4 47.2#
71 14.4 31.5 47.3#



#43
Methyl Methacrylate
Concen: 0.369 ppbv
RT: 7.568 min Scan# 1544
Delta R.T. 0.103 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

Tgt Ion: 69 Resp: 33390
Ion Ratio Lower Upper
69 100
41 10654.0 115.7 173.5#
100 2161.8 25.9 38.9#

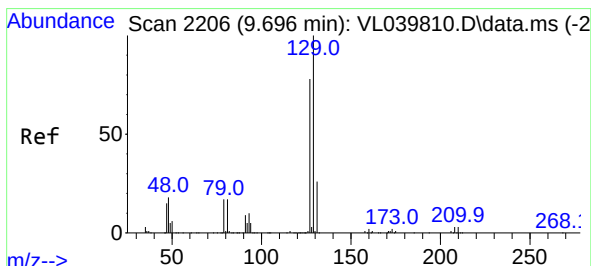
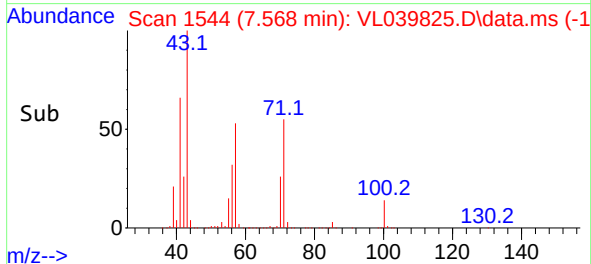
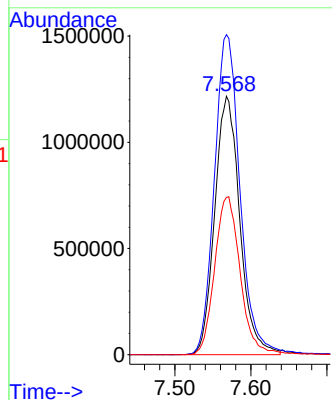
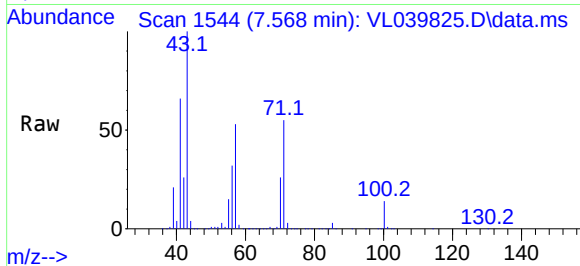




#44
2,2,4-Trimethylpentane
Concen: 7.223 ppbv
RT: 7.568 min Scan# 11
Delta R.T. 0.251 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

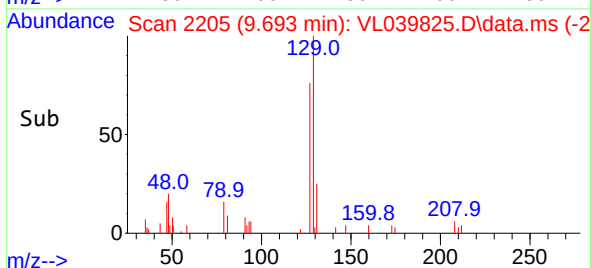
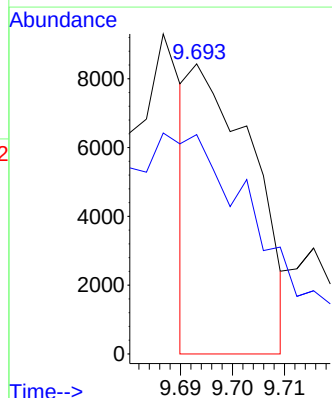
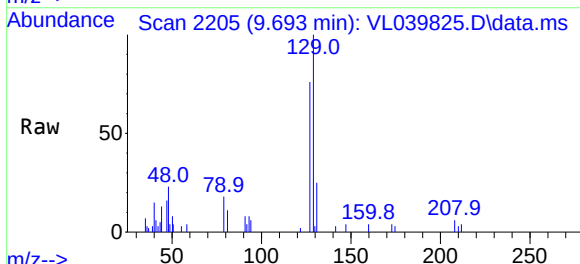
Instrument :
MSVOA_L
ClientSampleId :
E062-1100DUP

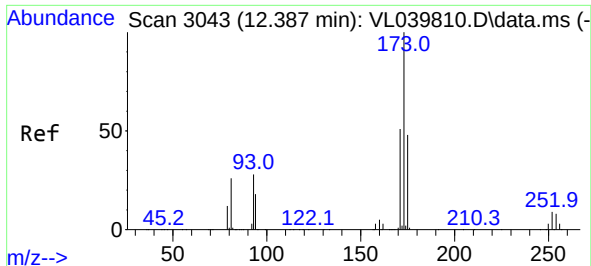
Tgt Ion: 57 Resp: 2789460
Ion Ratio Lower Upper
57 100
41 127.3 24.6 36.8#
56 62.7 25.4 38.0#



#48
Dibromochloromethane
Concen: 0.046 ppbv
RT: 9.693 min Scan# 2205
Delta R.T. -0.003 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

Tgt Ion: 129 Resp: 7073
Ion Ratio Lower Upper
129 100
127 0.0 39.4 118.1#

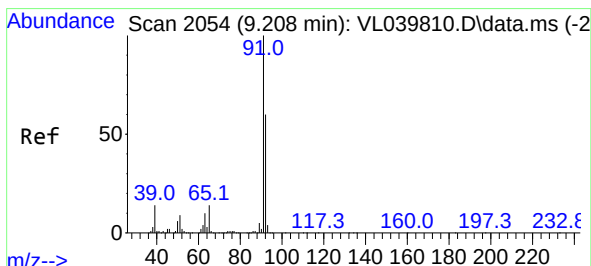
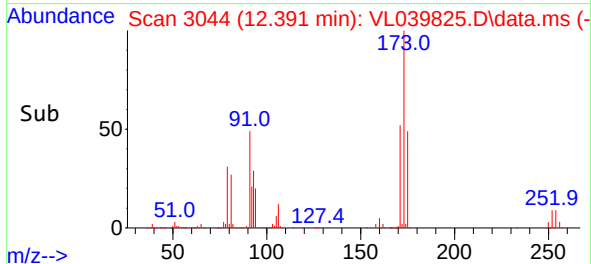
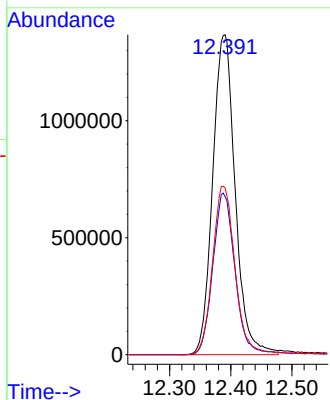
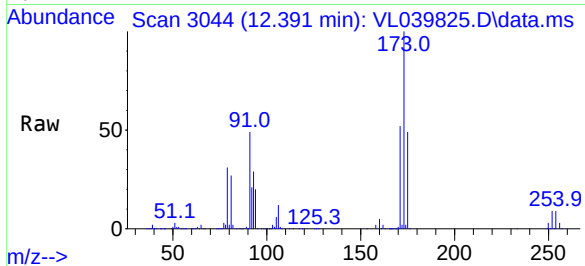




#49
Bromoform
Concen: 28.245 ppbv
RT: 12.391 min Scan# 3044
Delta R.T. 0.003 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

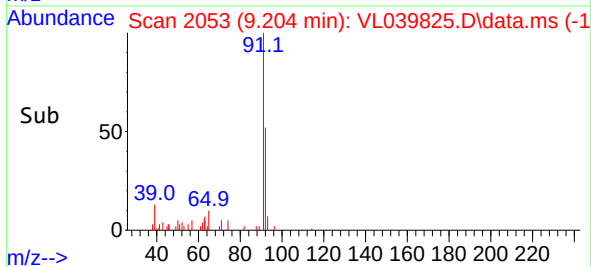
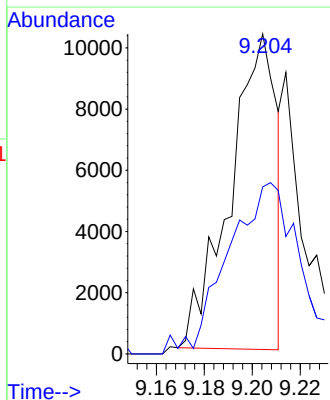
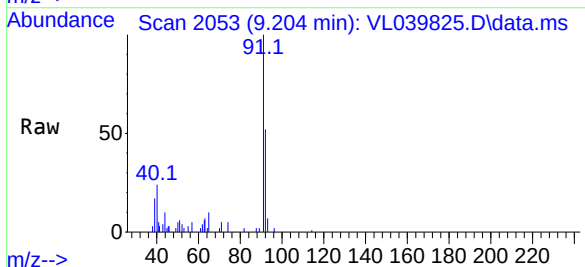
Instrument :
MSVOA_L
ClientSampleId :
E062-1100DUP

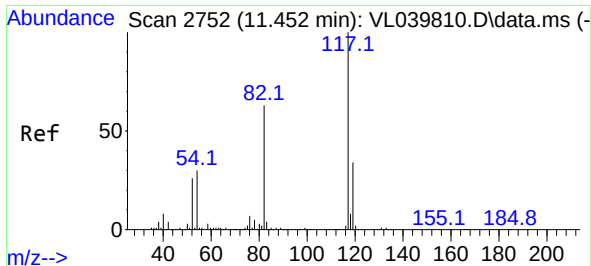
Tgt Ion:173 Resp: 3492009
Ion Ratio Lower Upper
173 100
175 50.5 39.7 59.5
171 53.3 41.7 62.5



#53
Toluene
Concen: 0.053 ppbv
RT: 9.204 min Scan# 2053
Delta R.T. -0.003 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

Tgt Ion: 91 Resp: 13792
Ion Ratio Lower Upper
91 100
92 91.6 49.6 74.4#

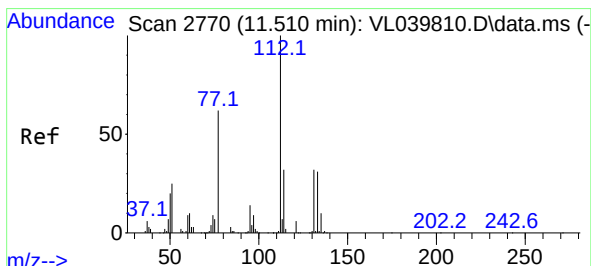
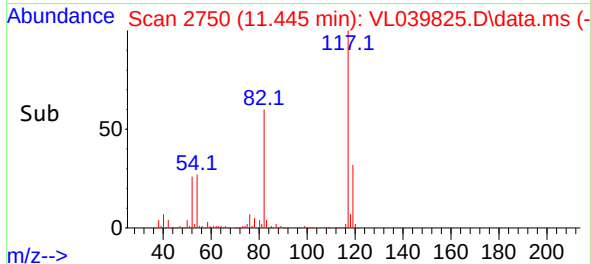
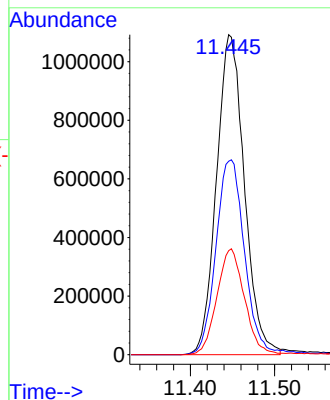
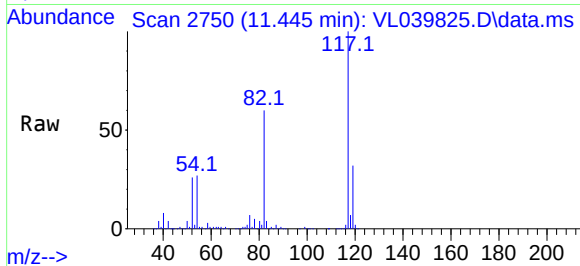




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.445 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

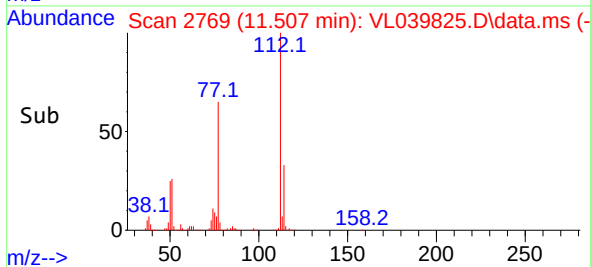
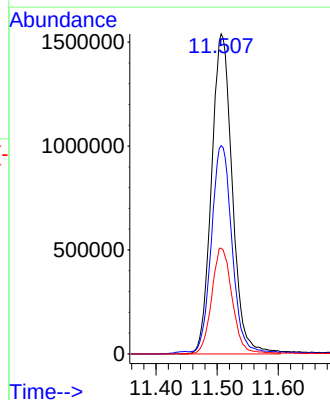
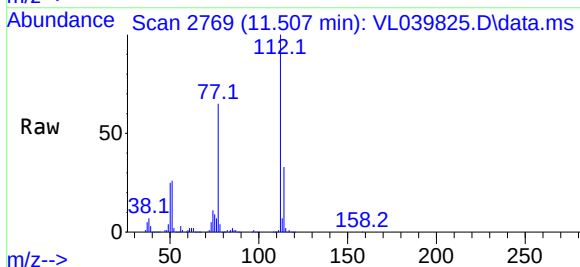
Instrument :
MSVOA_L
ClientSampleId :
E062-1100DUP

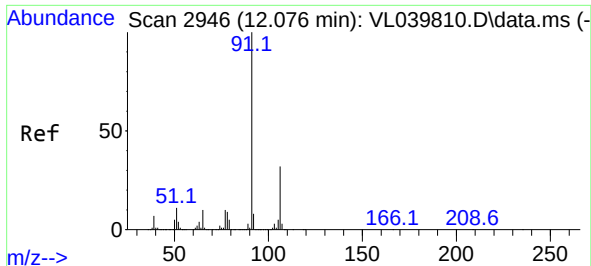
Tgt Ion:117 Resp: 2507205
Ion Ratio Lower Upper
117 100
82 63.2 51.0 76.6
119 33.2 24.7 37.1



#57
Chlorobenzene
Concen: 19.090 ppbv
RT: 11.507 min Scan# 2769
Delta R.T. -0.003 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

Tgt Ion:112 Resp: 3630495
Ion Ratio Lower Upper
112 100
77 64.5 49.8 74.6
114 33.0 29.0 35.4

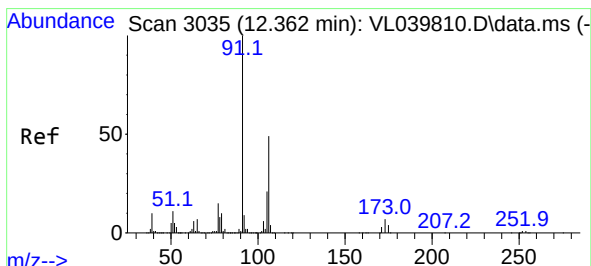
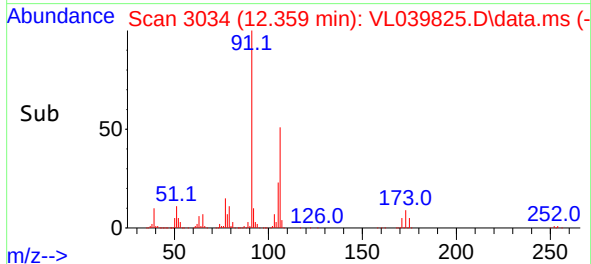
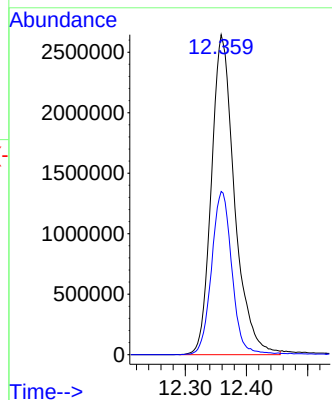
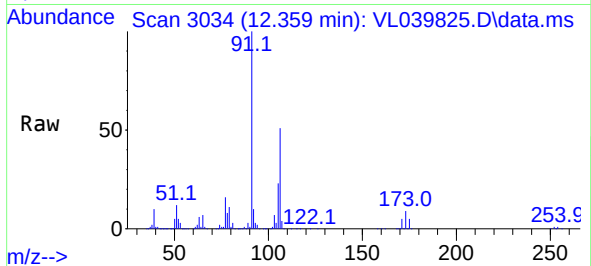




#58
Ethyl Benzene
Concen: 20.505 ppbv
RT: 12.359 min Scan# 3034
Delta R.T. 0.283 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

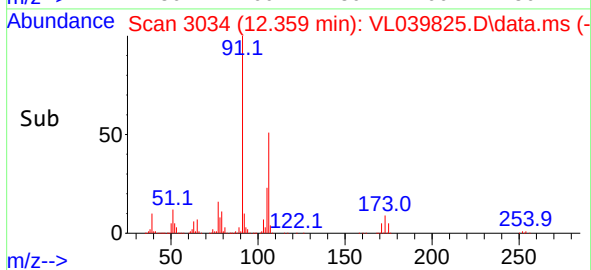
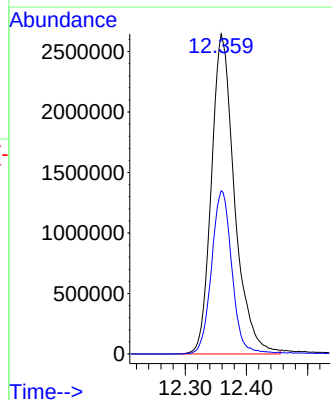
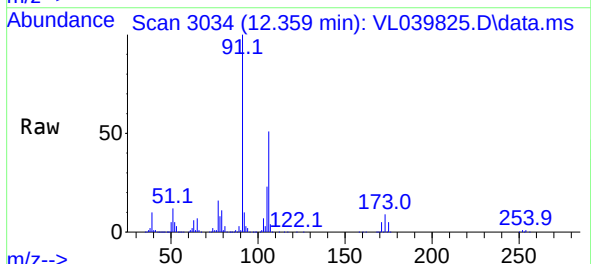
Instrument :
MSVOA_1
ClientSampleId :
E062-1100DUP

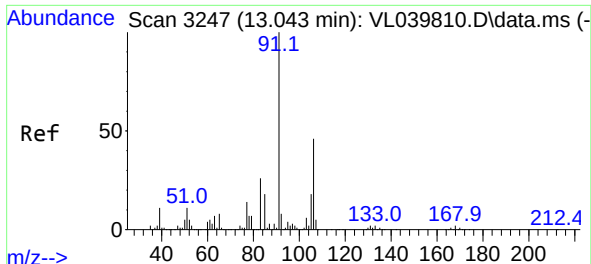
Tgt Ion: 91 Resp: 6951007
Ion Ratio Lower Upper
91 100
106 51.0 25.9 38.9#



#59
m/p-Xylene
Concen: 24.564 ppbv
RT: 12.359 min Scan# 3034
Delta R.T. -0.003 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

Tgt Ion: 91 Resp: 6951007
Ion Ratio Lower Upper
91 100
106 45.6 37.6 56.4

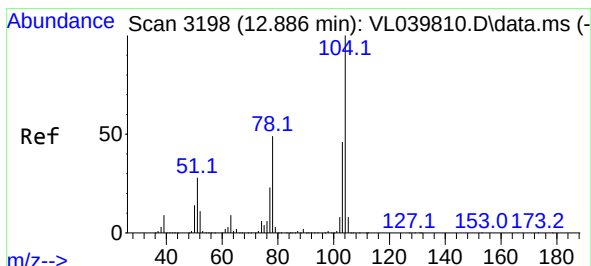
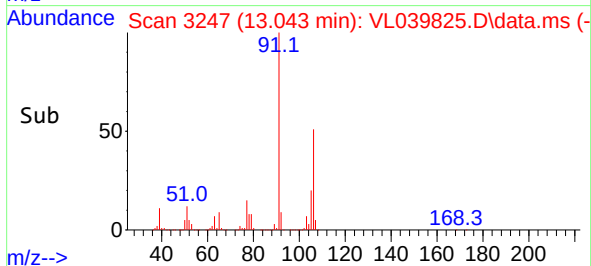
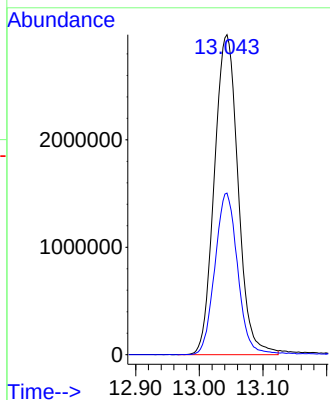
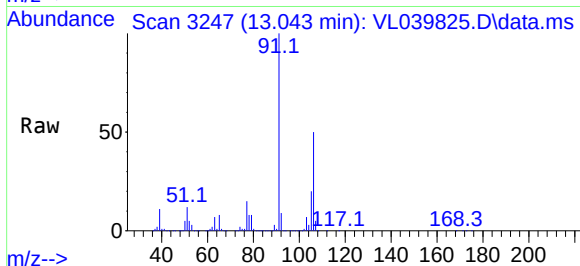




#60
o-Xylene
Concen: 28.795 ppbv
RT: 13.043 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

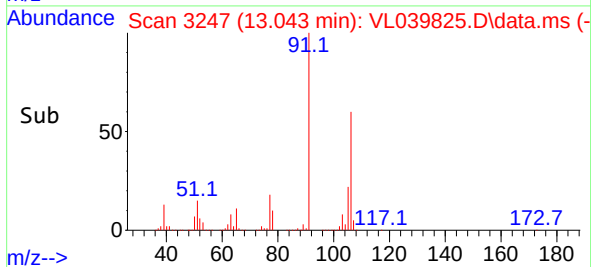
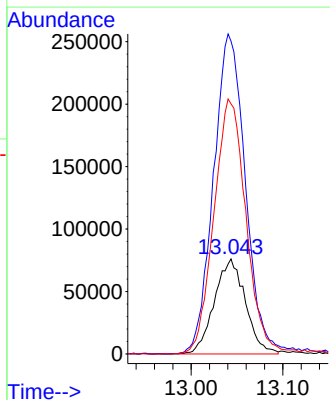
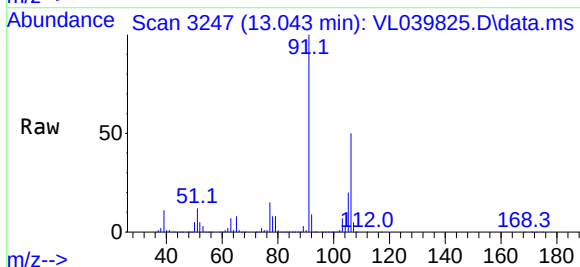
Instrument :
MSVOA_L
ClientSampleId :
E062-1100DUP

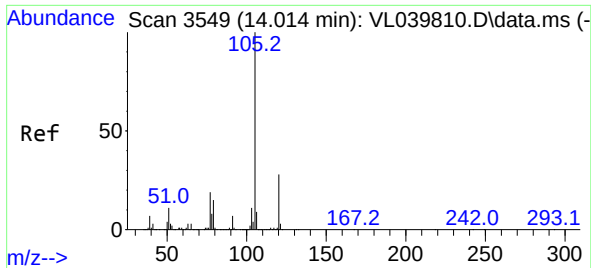
Tgt Ion: 91 Resp: 7720000
Ion Ratio Lower Upper
91 100
106 49.1 23.6 70.8



#61
Styrene
Concen: 1.085 ppbv
RT: 13.043 min Scan# 3247
Delta R.T. 0.158 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

Tgt Ion: 104 Resp: 179036
Ion Ratio Lower Upper
104 100
78 349.7 40.2 60.2#
103 281.7 37.5 56.3#

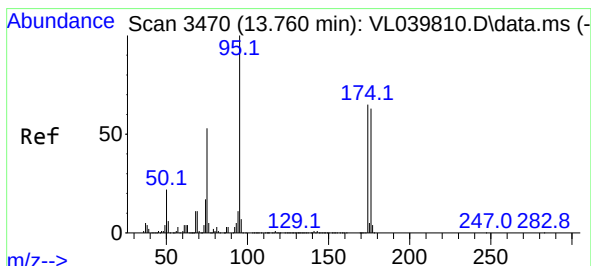
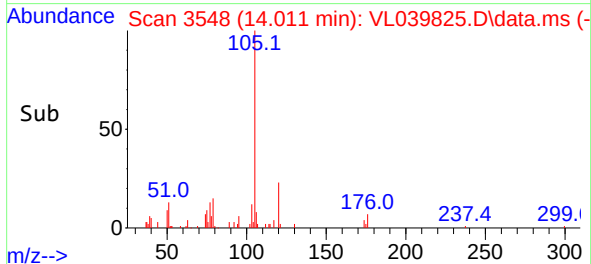
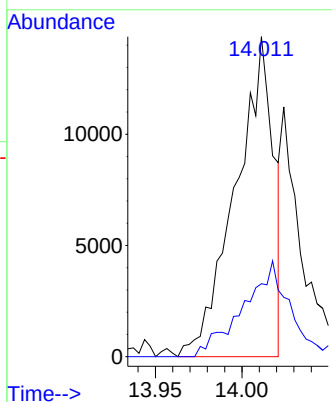
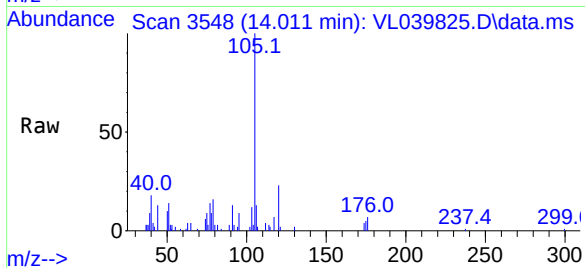




#62
Isopropylbenzene
Concen: 0.056 ppbv
RT: 14.011 min Scan# 31
Delta R.T. -0.003 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

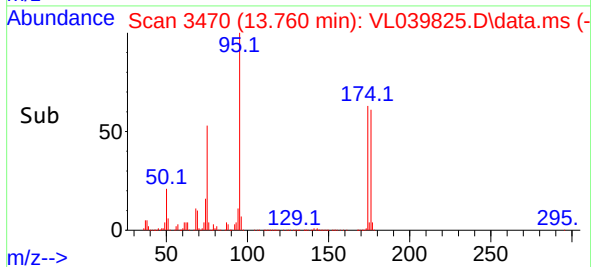
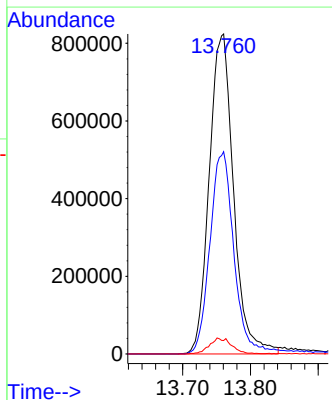
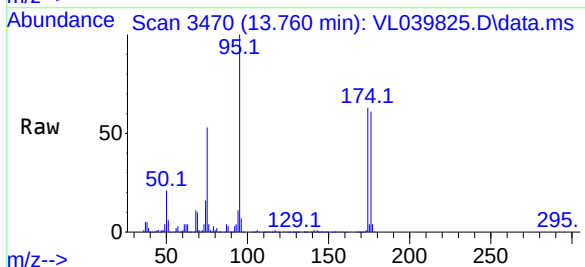
Instrument :
MSVOA_L
ClientSampleId :
E062-1100DUP

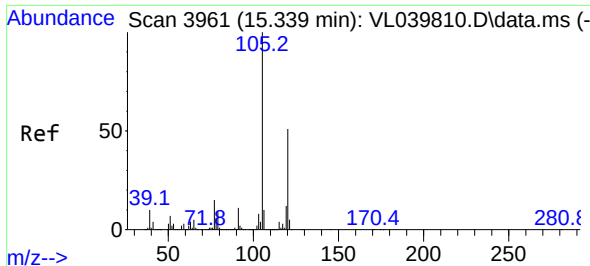
Tgt Ion:105 Resp: 21852
Ion Ratio Lower Upper
105 100
120 0.0 21.7 32.5#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.944 ppbv
RT: 13.760 min Scan# 3470
Delta R.T. 0.000 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

Tgt Ion: 95 Resp: 2053709
Ion Ratio Lower Upper
95 100
174 64.3 53.4 80.0
175 4.6 4.1 6.1

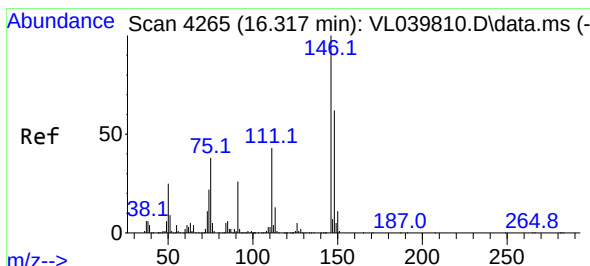
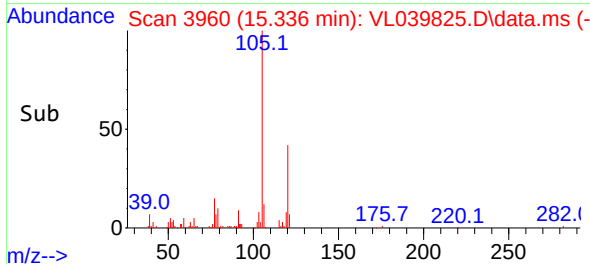
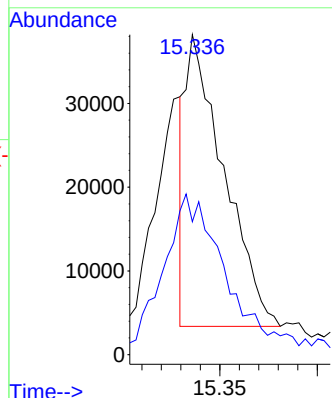
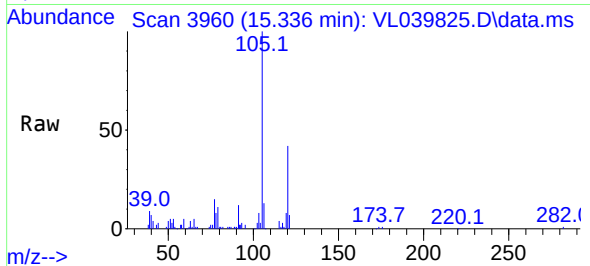




#73
1,3,5-Trimethylbenzene
Concen: 0.178 ppbv
RT: 15.336 min Scan# 3961
Delta R.T. -0.003 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

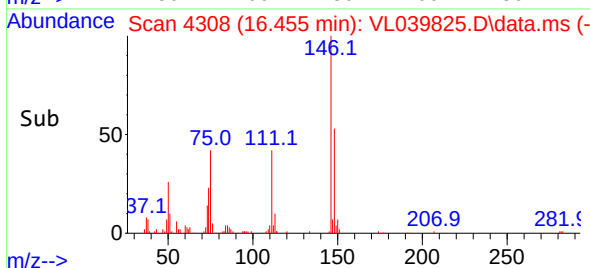
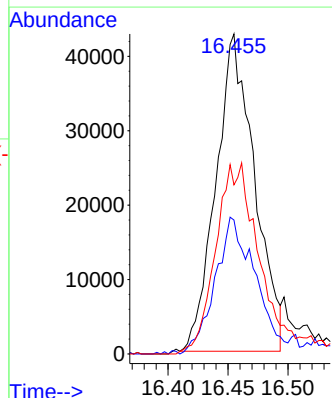
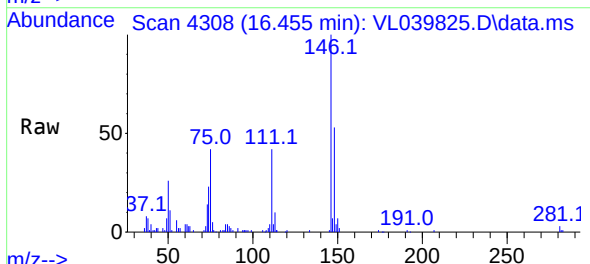
Instrument :
MSVOA_L
ClientSampleId :
E062-1100DUP

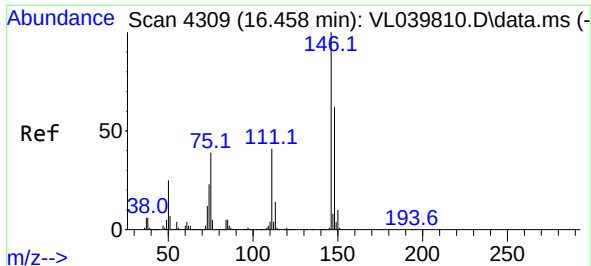
Tgt Ion:105 Resp: 47622
Ion Ratio Lower Upper
105 100
120 37.9 41.0 61.4#



#75
1,3-Dichlorobenzene
Concen: 0.578 ppbv
RT: 16.455 min Scan# 4308
Delta R.T. 0.138 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

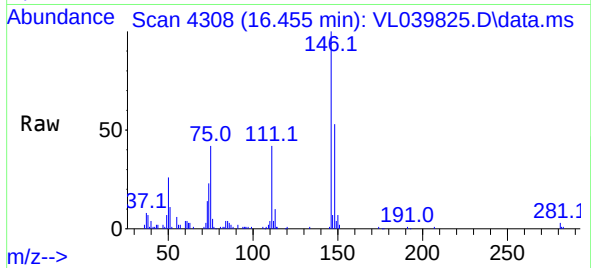
Tgt Ion:146 Resp: 95896
Ion Ratio Lower Upper
146 100
111 49.4 22.9 68.8
148 72.4 32.3 96.9





#76
1,4-Dichlorobenzene
Concen: 0.589 ppbv
RT: 16.455 min Scan# 41
Delta R.T. -0.003 min
Lab File: VL039825.D
Acq: 3 Nov 2022 14:34

Instrument :
MSVOA_L
ClientSampleId :
E062-1100DUP



Tgt Ion:	146	Resp:	95896
Ion	Ratio	Lower	Upper
146	100		
111	49.2	22.7	68.1
148	70.6	33.1	99.3

