

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL112024\
 Data File : VL041703.D
 Acq On : 20 Nov 2024 17:13
 Operator : SY/MD
 Sample : P4633-01 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E070-1100DL

Quant Time: Nov 21 05:11:58 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Nov 08 01:01:00 2024
 Response via : Initial Calibration

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

Internal Standards							
1) Bromochloromethane		5.211	49	1151749	10.000	ppbv	0.02
33) 1,4-Difluorobenzene		6.671	114	3143518	10.000	ppbv	0.02
55) Chlorobenzene-d5		11.484	117	2826325	10.000	ppbv	0.02
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.793	95	2210509	10.615	ppbv	0.02
Spiked Amount		10.000	Range 65 - 135		Recovery	= 106.100%	
Target Compounds							
							Qvalue
5) Vinyl Chloride		3.211	62	12256	0.171	ppbv #	1
7) Chloroethane		3.214	64	297399	11.396	ppbv	98
10) Heptane		7.594	43	731285	4.991	ppbv	100
13) Ethanol		3.263	45	728	0.182	ppbv #	40
15) Acetone		3.497	43	32478	0.229	ppbv #	87
18) 1,1-Dichloroethene		3.899	96	245003	4.239	ppbv	92
20) Methylene Chloride		3.948	84	5053	0.097	ppbv #	69
30) Cyclohexane		6.658	84	10944	0.114	ppbv #	1
35) Carbon Tetrachloride		6.513	117	995563	6.003	ppbv	97
39) 1,2-Dichloropropane		6.671	63	787347	8.554	ppbv #	23
42) Bromodichloromethane		7.266	83	736790	4.035	ppbv	100
43) Methyl Methacrylate		7.584	69	11493	0.141	ppbv #	1
44) 2,2,4-Trimethylpentane		7.597	57	363000	0.920	ppbv #	1
53) Toluene		9.237	91	2305967	9.415	ppbv	100
58) Ethyl Benzene		12.391	91	2829198	9.131	ppbv #	68
59) m/p-Xylene		12.391	91	2829198	10.196	ppbv	96
60) o-Xylene		13.076	91	2115938	7.997	ppbv	99
61) Styrene		13.076	104	49032	0.449	ppbv #	1
77) 1,2-Dichlorobenzene		17.159	146	1212635	6.304	ppbv	99
81) 1,2,4-Trichlorobenzene		21.166	180	504146	4.142	ppbv	95

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

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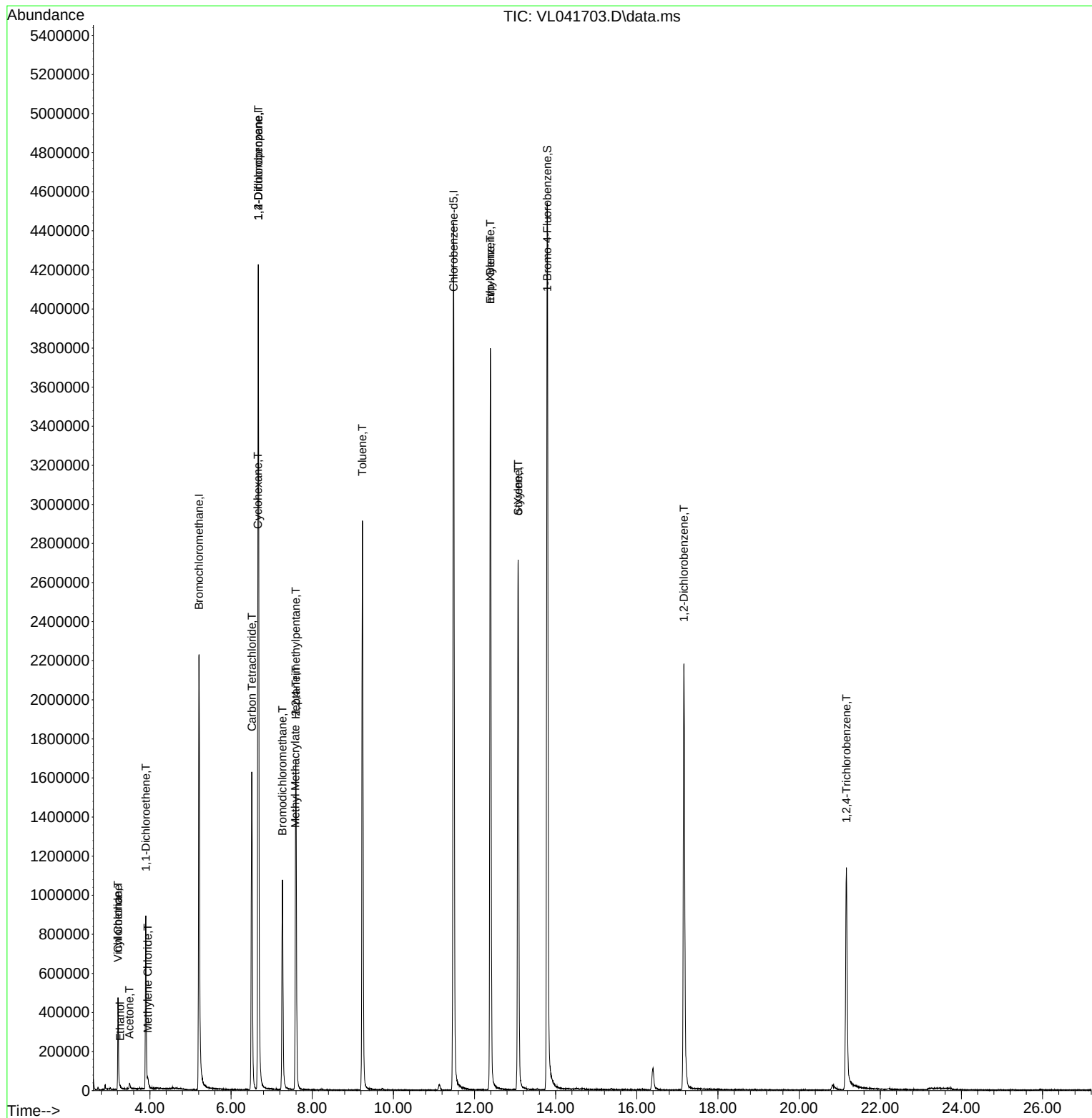
Quant Time: Nov 21 05:11:58 2024

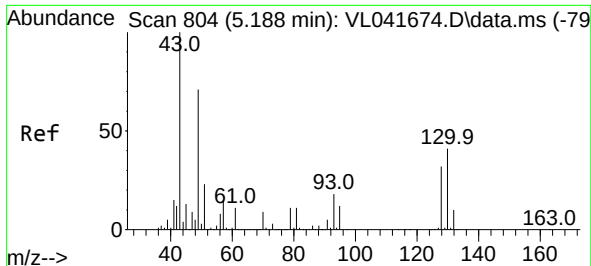
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL110724AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022

QLast Update : Fri Nov 08 01:01:00 2024

Response via : Initial Calibration

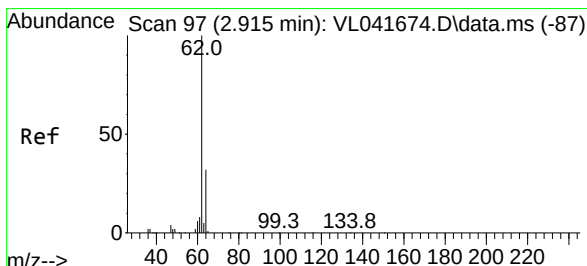
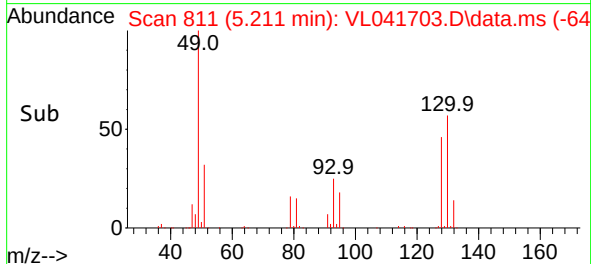
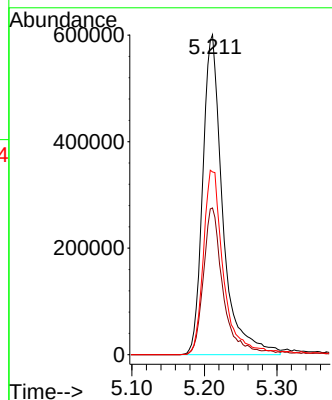
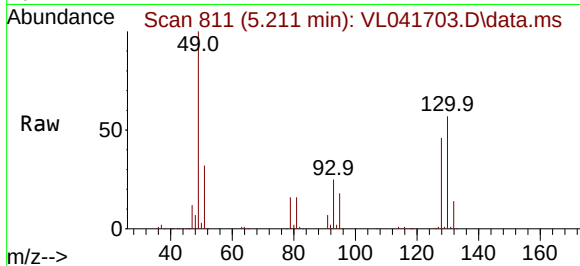




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. 0.023 min
Lab File: VL041703.D
Acq: 20 Nov 2024 17:13

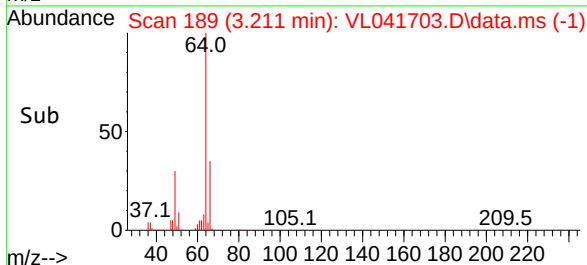
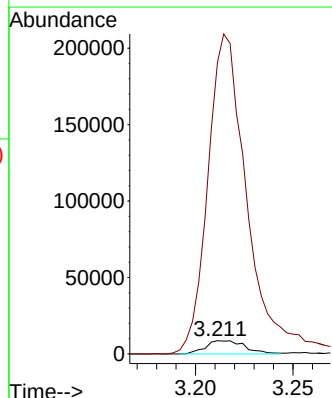
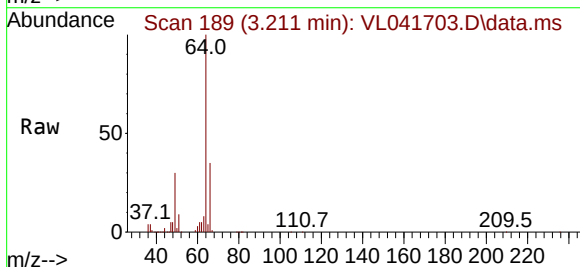
Instrument :
MSVOA_L
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E070-1100DL

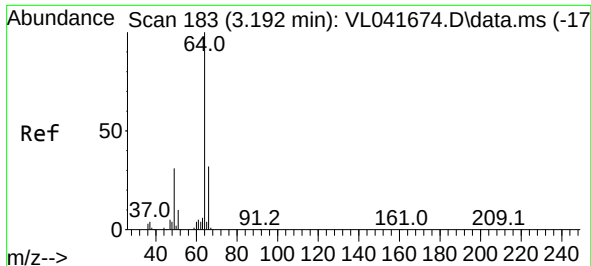
Tgt Ion: 49 Resp: 1151749
Ion Ratio Lower Upper
49 100
128 46.6 23.8 71.2
130 60.4 30.1 90.5



#5
Vinyl Chloride
Concen: 0.171 ppbv
RT: 3.211 min Scan# 189
Delta R.T. 0.296 min
Lab File: VL041703.D
Acq: 20 Nov 2024 17:13

Tgt Ion: 62 Resp: 12256
Ion Ratio Lower Upper
62 100
64 2230.3 25.4 38.2#

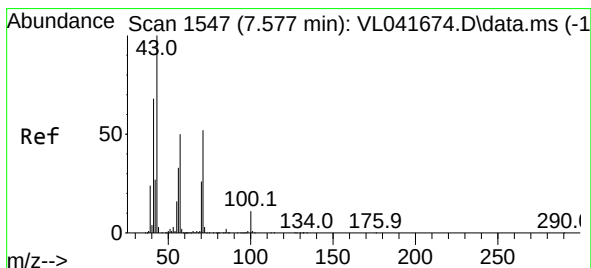
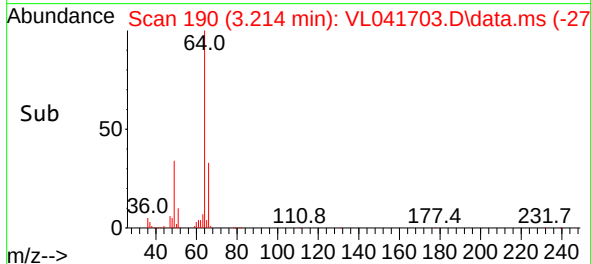
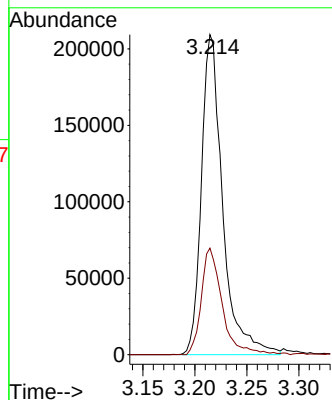
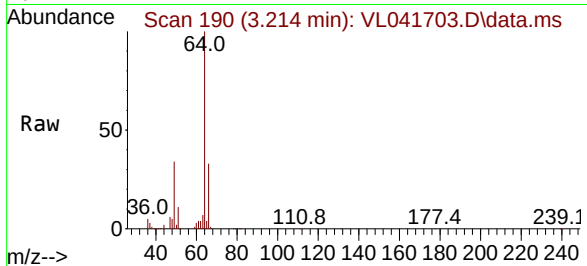




#7
Chloroethane
Concen: 11.396 ppbv
RT: 3.214 min Scan# 190
Delta R.T. 0.023 min
Lab File: VL041703.D
Acq: 20 Nov 2024 17:13

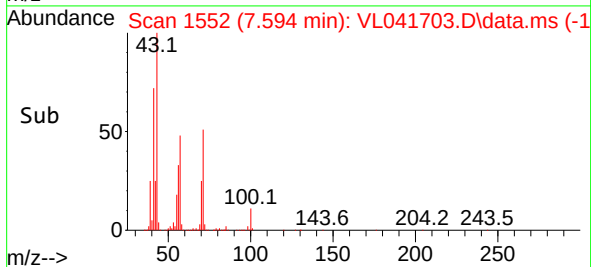
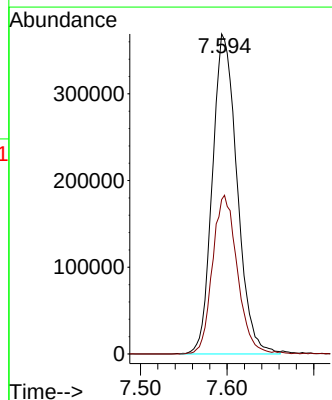
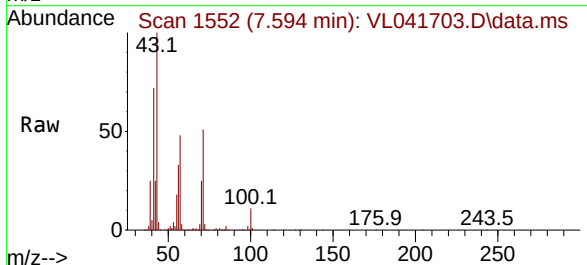
Instrument :
MSVOA_L
ClientSampleId :
E070-1100DL

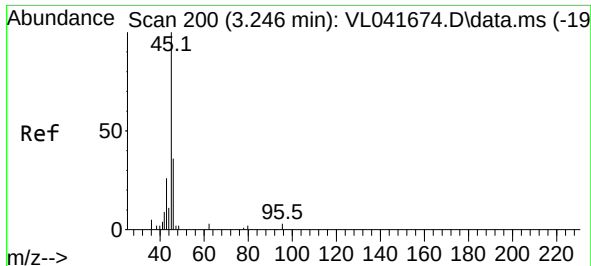
Tgt Ion: 64 Resp: 297399
Ion Ratio Lower Upper
64 100
66 33.3 25.9 38.9



#10
Heptane
Concen: 4.991 ppbv
RT: 7.594 min Scan# 1552
Delta R.T. 0.016 min
Lab File: VL041703.D
Acq: 20 Nov 2024 17:13

Tgt Ion: 43 Resp: 731285
Ion Ratio Lower Upper
43 100
57 50.1 40.0 60.0

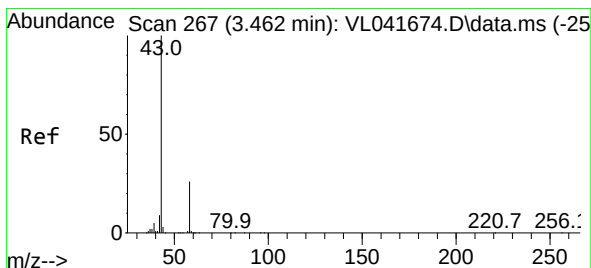
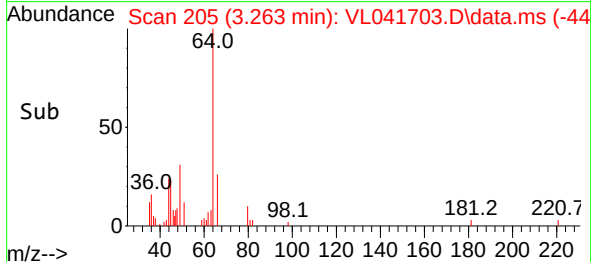
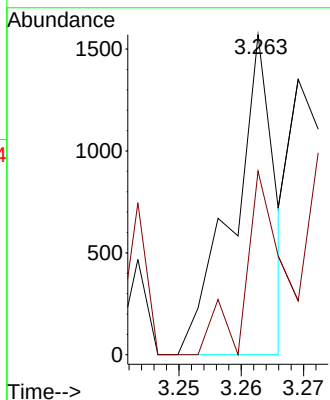
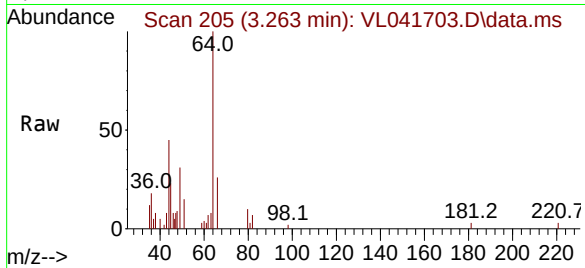




#13
Ethanol
Concen: 0.182 ppbv
RT: 3.263 min Scan# 205
Delta R.T. 0.016 min
Lab File: VL041703.D
Acq: 20 Nov 2024 17:13

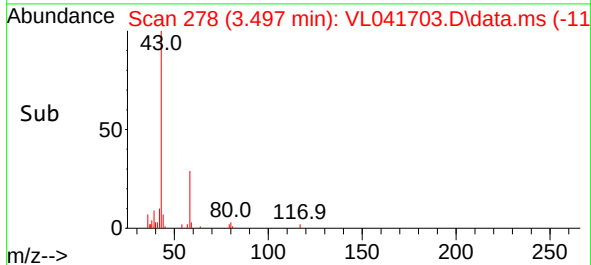
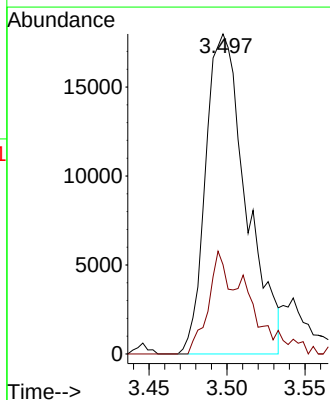
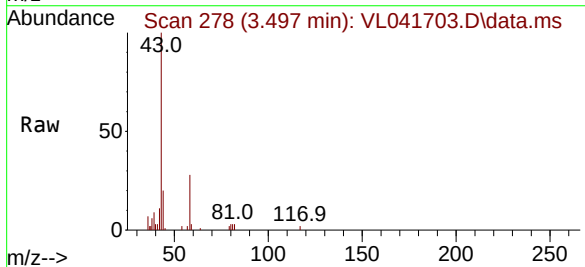
Instrument :
MSVOA_L
ClientSampleId :
E070-1100DL

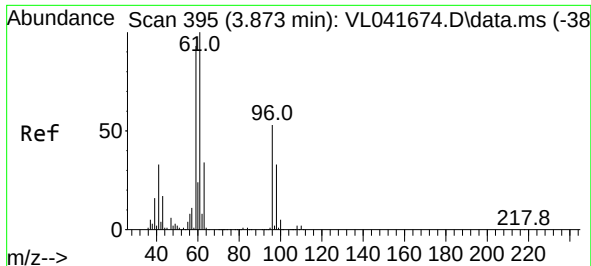
Tgt Ion: 45 Resp: 728
Ion Ratio Lower Upper
45 100
46 0.0 13.8 55.2#



#15
Acetone
Concen: 0.229 ppbv
RT: 3.497 min Scan# 278
Delta R.T. 0.036 min
Lab File: VL041703.D
Acq: 20 Nov 2024 17:13

Tgt Ion: 43 Resp: 32478
Ion Ratio Lower Upper
43 100
58 33.3 21.4 32.0#

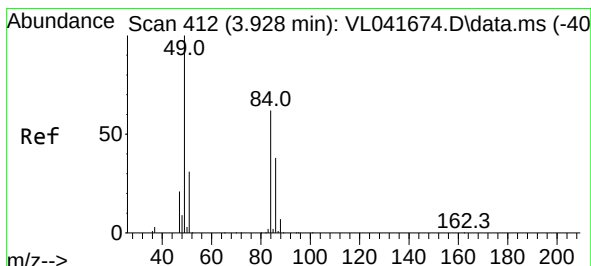
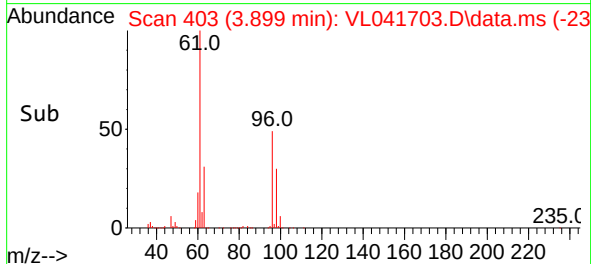
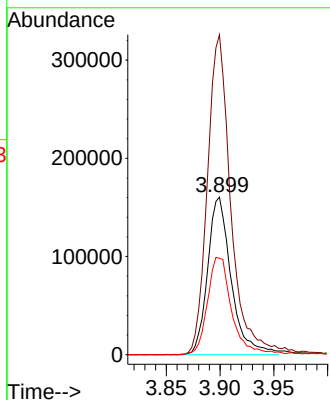
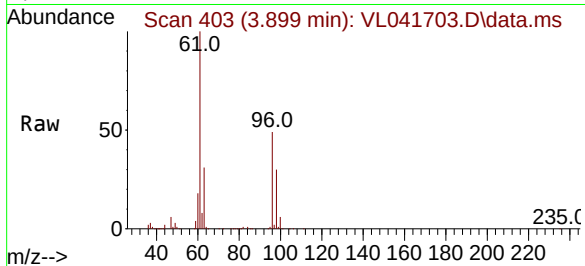




#18
1,1-Dichloroethene
Concen: 4.239 ppbv
RT: 3.899 min Scan# 403
Delta R.T. 0.026 min
Lab File: VL041703.D
Acq: 20 Nov 2024 17:13

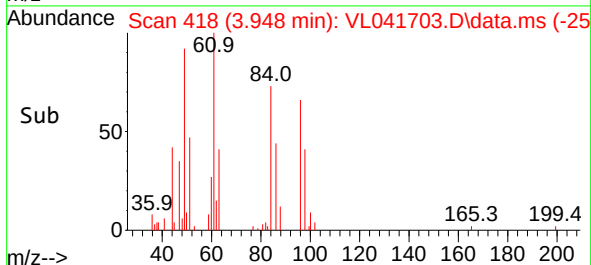
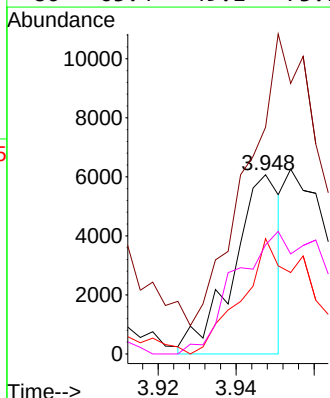
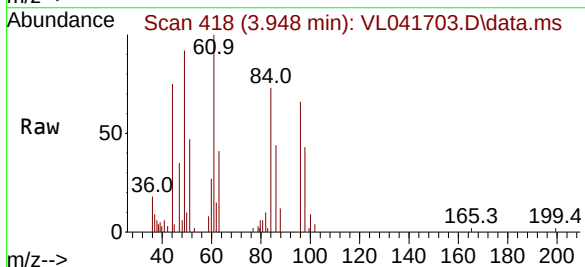
Instrument :
MSVOA_L
ClientSampleId :
E070-1100DL

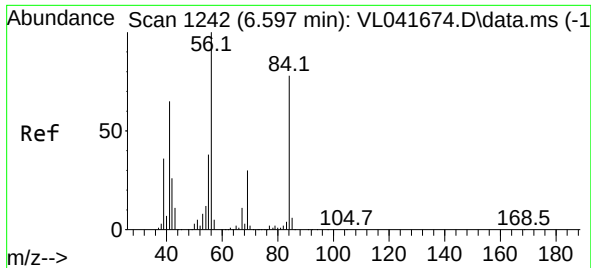
Tgt Ion: 96 Resp: 245003
Ion Ratio Lower Upper
96 100
61 203.0 150.7 226.1
98 61.1 49.4 74.2



#20
Methylene Chloride
Concen: 0.097 ppbv
RT: 3.948 min Scan# 418
Delta R.T. 0.020 min
Lab File: VL041703.D
Acq: 20 Nov 2024 17:13

Tgt Ion: 84 Resp: 5053
Ion Ratio Lower Upper
84 100
49 101.3 129.7 194.5#
51 63.0 39.8 59.6#
86 63.4 49.1 73.7





#30

Cyclohexane

Concen: 0.114 ppbv

RT: 6.658 min Scan# 11

Delta R.T. 0.061 min

Lab File: VL041703.D

Acq: 20 Nov 2024 17:13

Instrument :

MSVOA_L

ClientSampleId :

E070-1100DL

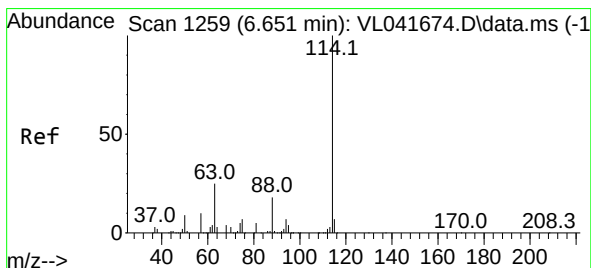
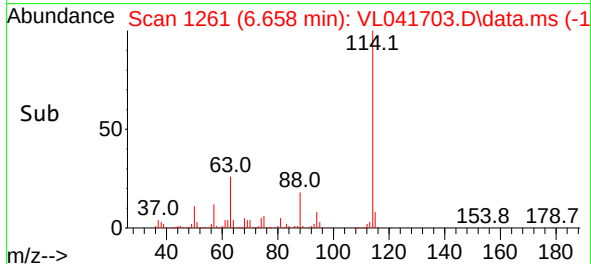
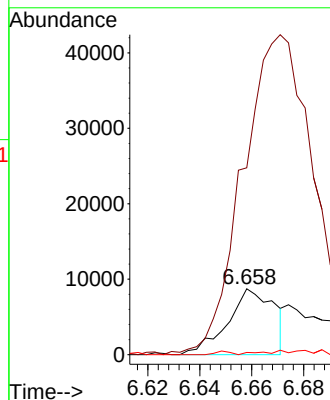
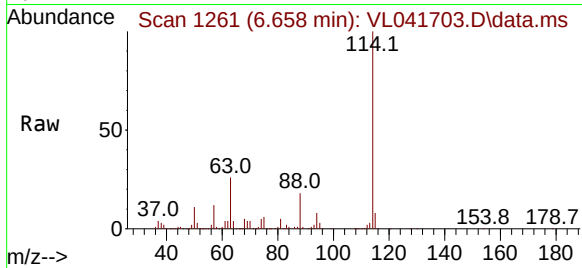
Tgt Ion: 84 Resp: 10944

Ion Ratio Lower Upper

84 100

56 0.0 110.8 166.2#

41 0.0 70.0 105.0#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.671 min Scan# 1265

Delta R.T. 0.019 min

Lab File: VL041703.D

Acq: 20 Nov 2024 17:13

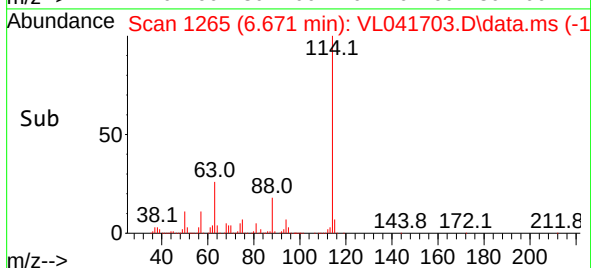
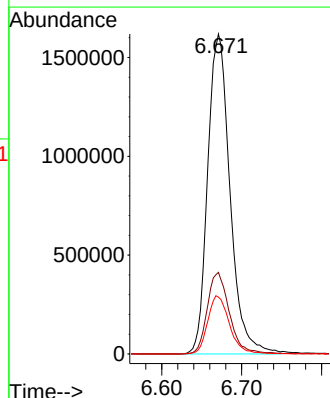
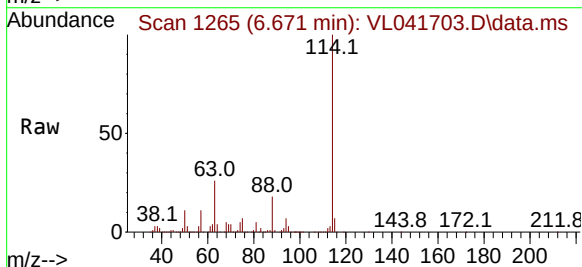
Tgt Ion: 114 Resp: 3143518

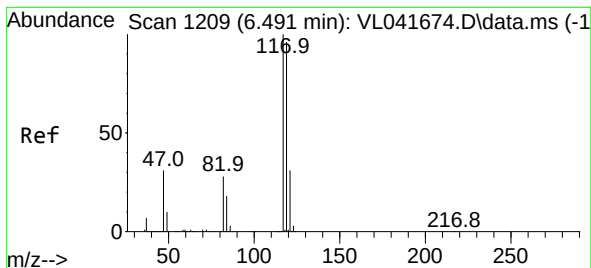
Ion Ratio Lower Upper

114 100

63 25.4 20.3 30.5

88 17.9 14.2 21.4





#35

Carbon Tetrachloride

Concen: 6.003 ppbv

RT: 6.513 min Scan# 117

Delta R.T. 0.023 min

Lab File: VL041703.D

Acq: 20 Nov 2024 17:13

Instrument :

MSVOA_L

ClientSampleId :

E070-1100DL

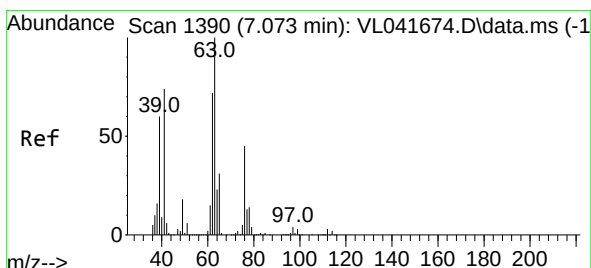
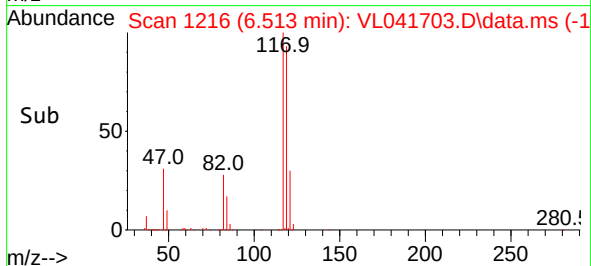
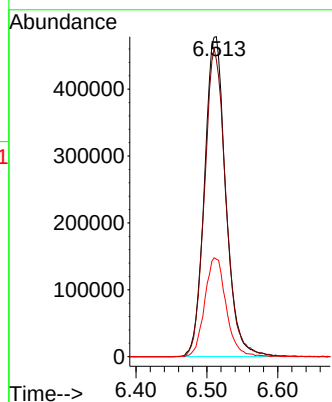
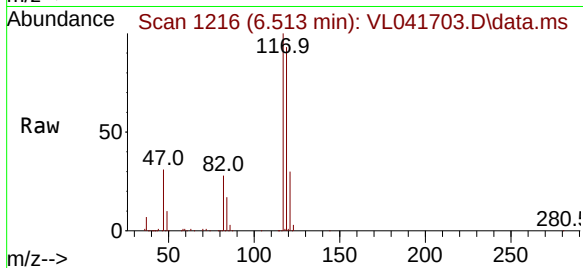
Tgt Ion:117 Resp: 995563

Ion Ratio Lower Upper

117 100

119 92.8 77.2 115.8

121 30.5 25.0 37.4



#39

1,2-Dichloropropane

Concen: 8.554 ppbv

RT: 6.671 min Scan# 1265

Delta R.T. -0.402 min

Lab File: VL041703.D

Acq: 20 Nov 2024 17:13

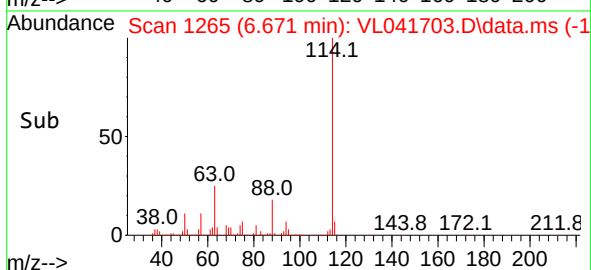
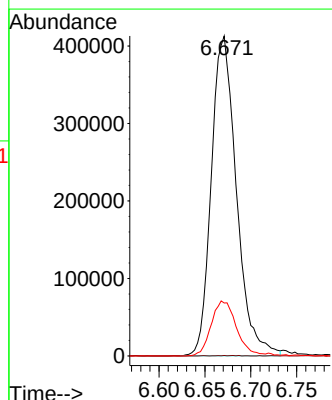
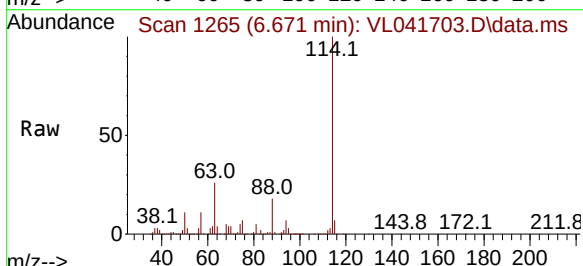
Tgt Ion: 63 Resp: 787347

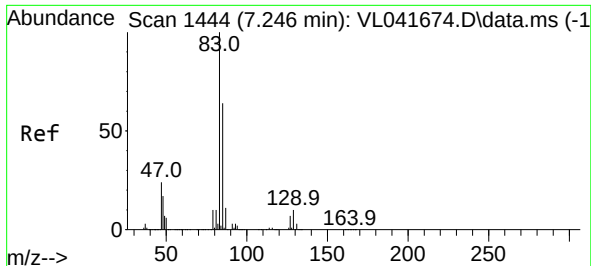
Ion Ratio Lower Upper

63 100

41 0.1 59.1 88.7#

62 16.6 57.7 86.5#

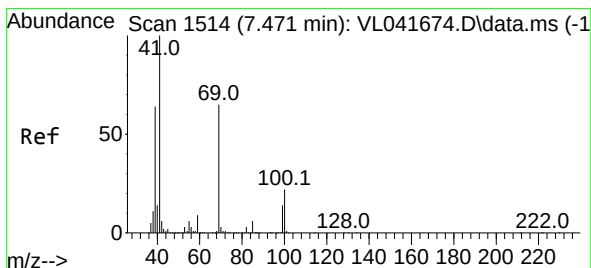
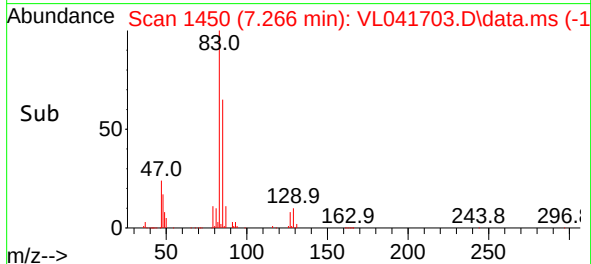
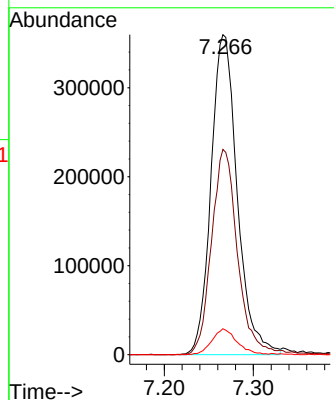
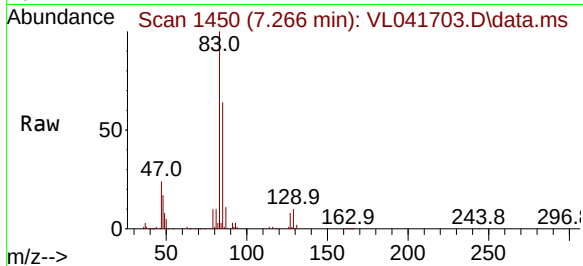




#42
Bromodichloromethane
Concen: 4.035 ppbv
RT: 7.266 min Scan# 1444
Delta R.T. 0.019 min
Lab File: VL041703.D
Acq: 20 Nov 2024 17:13

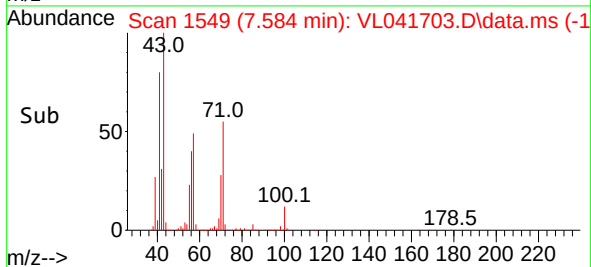
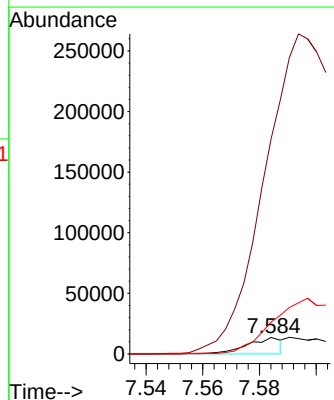
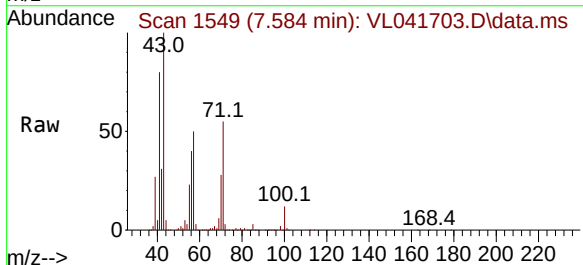
Instrument :
MSVOA_L
ClientSampleId :
E070-1100DL

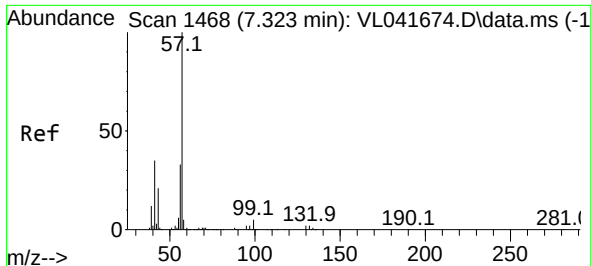
Tgt Ion: 83 Resp: 736790
Ion Ratio Lower Upper
83 100
85 64.1 51.2 76.8
127 8.1 6.0 9.0



#43
Methyl Methacrylate
Concen: 0.141 ppbv
RT: 7.584 min Scan# 1549
Delta R.T. 0.113 min
Lab File: VL041703.D
Acq: 20 Nov 2024 17:13

Tgt Ion: 69 Resp: 11493
Ion Ratio Lower Upper
69 100
41 0.0 119.8 179.6#
100 0.0 27.3 40.9#





#44

2,2,4-Trimethylpentane

Concen: 0.920 ppbv

RT: 7.597 min Scan# 11

Delta R.T. 0.274 min

Lab File: VL041703.D

Acq: 20 Nov 2024 17:13

Instrument :

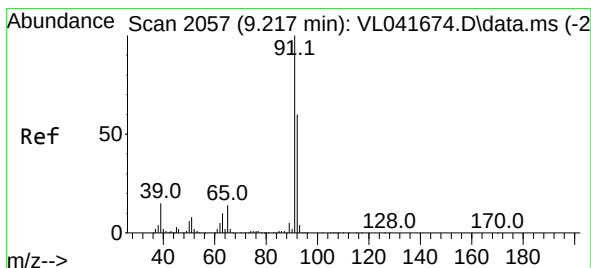
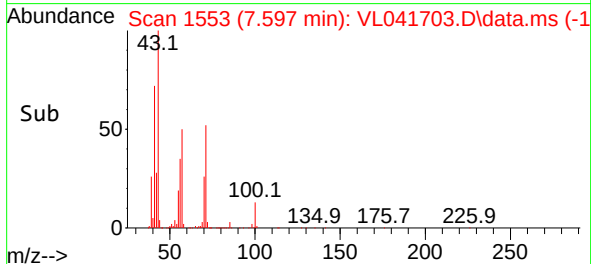
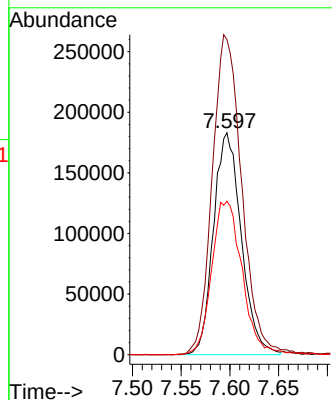
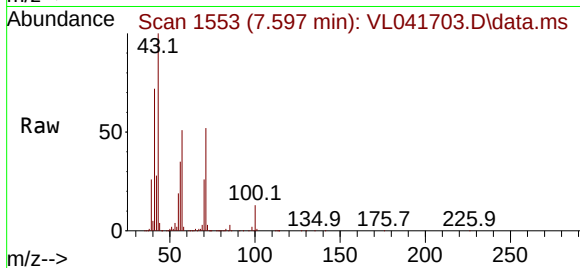
MSVOA_1

ClientSampleId :

E070-1100DL

Tgt Ion: 57 Resp: 363000

Ion	Ratio	Lower	Upper
57	100		
41	153.8	27.0	40.6#
56	76.1	25.8	38.6#



#53

Toluene

Concen: 9.415 ppbv

RT: 9.237 min Scan# 2063

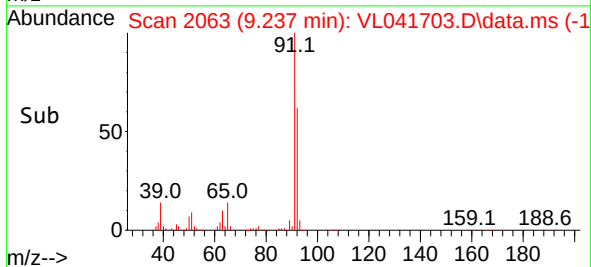
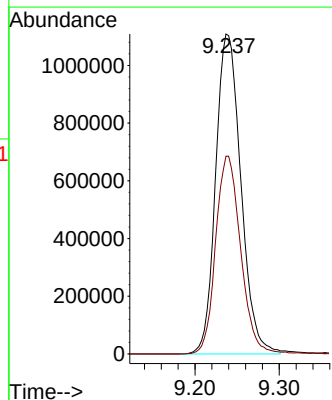
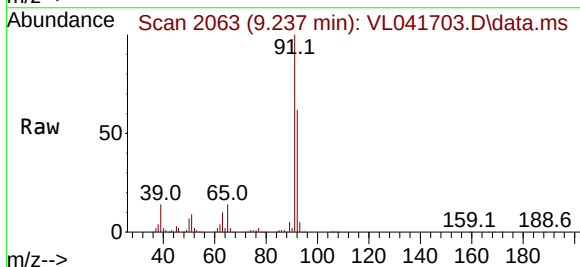
Delta R.T. 0.020 min

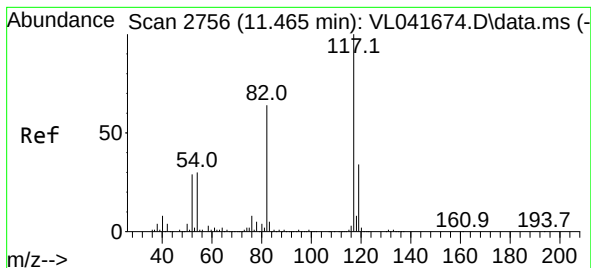
Lab File: VL041703.D

Acq: 20 Nov 2024 17:13

Tgt Ion: 91 Resp: 2305967

Ion	Ratio	Lower	Upper
91	100		
92	61.5	49.0	73.4

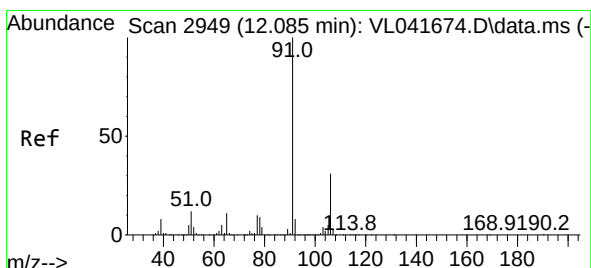
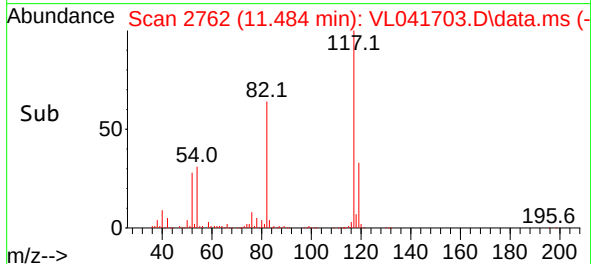
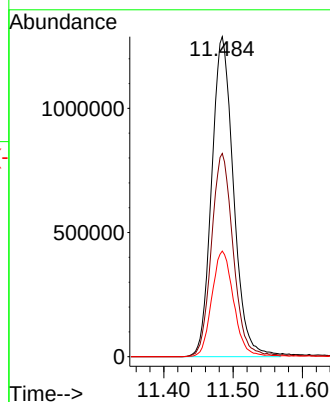
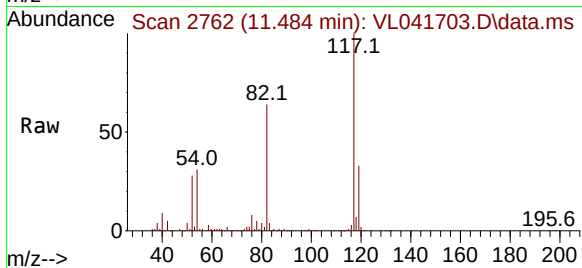




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.484 min Scan# 21
Delta R.T. 0.020 min
Lab File: VL041703.D
Acq: 20 Nov 2024 17:13

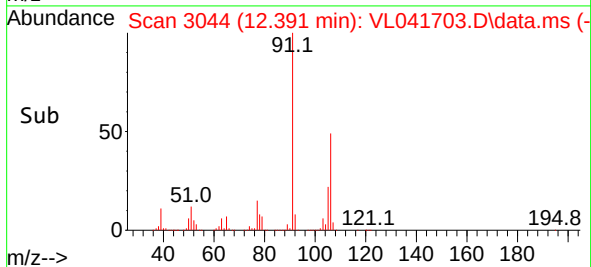
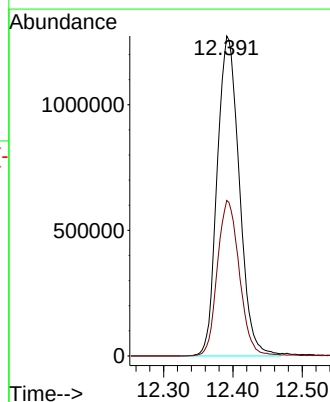
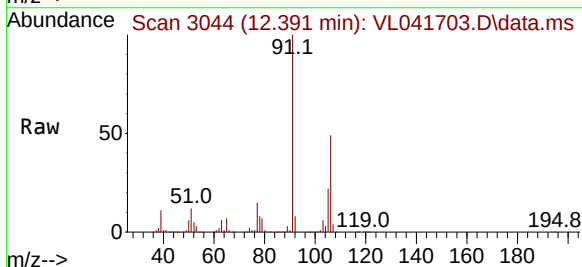
Instrument :
MSVOA_L
ClientSampleId :
E070-1100DL

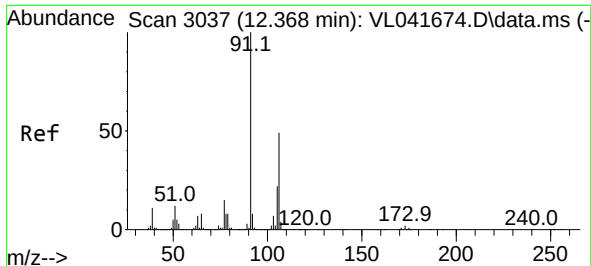
Tgt Ion:117 Resp: 2826325
Ion Ratio Lower Upper
117 100
82 63.9 49.8 74.8
119 33.4 24.2 36.4



#58
Ethyl Benzene
Concen: 9.131 ppbv
RT: 12.391 min Scan# 3044
Delta R.T. 0.306 min
Lab File: VL041703.D
Acq: 20 Nov 2024 17:13

Tgt Ion: 91 Resp: 2829198
Ion Ratio Lower Upper
91 100
106 48.6 24.9 37.3#





#59

m/p-Xylene

Concen: 10.196 ppbv

RT: 12.391 min Scan# 3044

Delta R.T. 0.023 min

Lab File: VL041703.D

Acq: 20 Nov 2024 17:13

Instrument :

MSVOA_L

ClientSampleId :

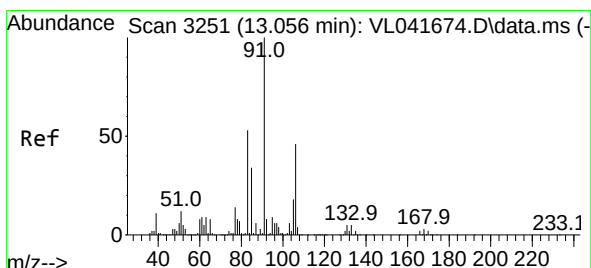
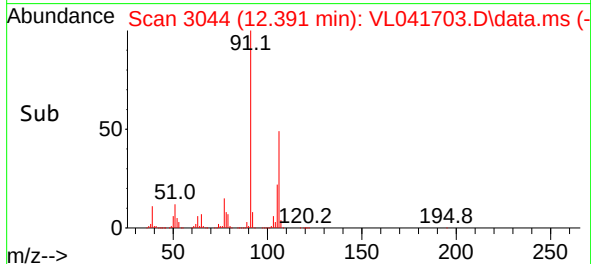
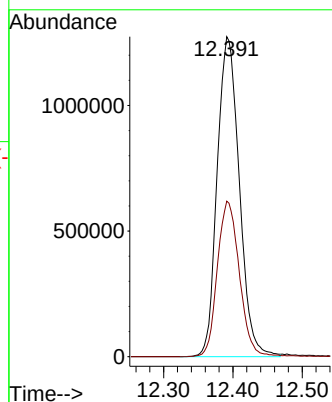
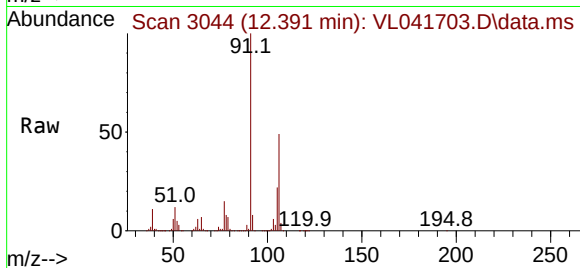
E070-1100DL

Tgt Ion: 91 Resp: 2829198

Ion Ratio Lower Upper

91 100

106 48.7 36.9 55.3



#60

o-Xylene

Concen: 7.997 ppbv

RT: 13.076 min Scan# 3257

Delta R.T. 0.020 min

Lab File: VL041703.D

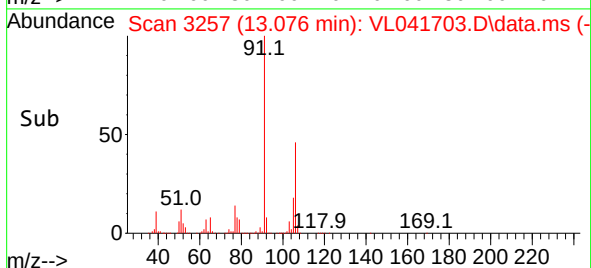
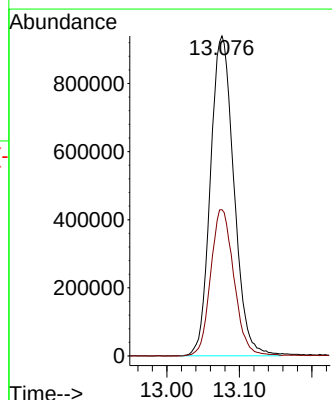
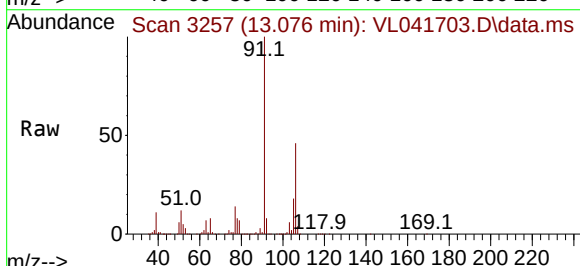
Acq: 20 Nov 2024 17:13

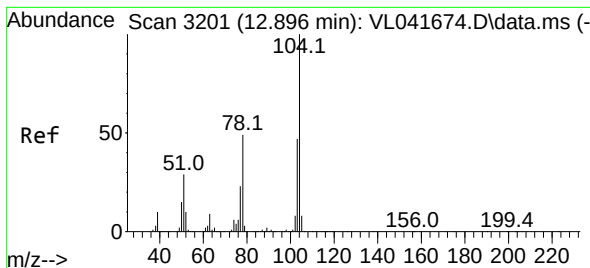
Tgt Ion: 91 Resp: 2115938

Ion Ratio Lower Upper

91 100

106 45.8 23.2 69.6





#61

Styrene

Concen: 0.449 ppbv

RT: 13.076 min Scan# 31

Delta R.T. 0.180 min

Lab File: VL041703.D

Acq: 20 Nov 2024 17:13

Instrument :

MSVOA_L

ClientSampleId :

E070-1100DL

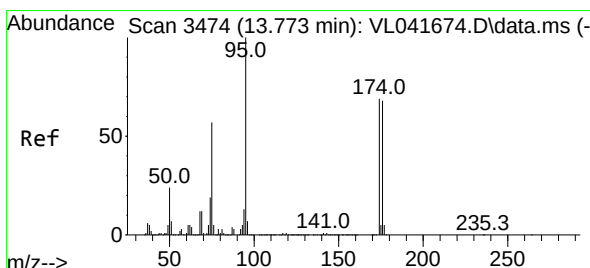
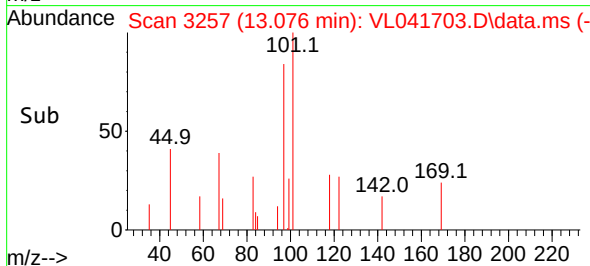
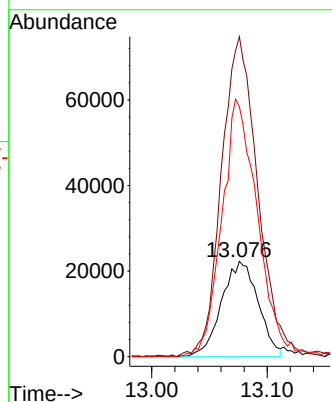
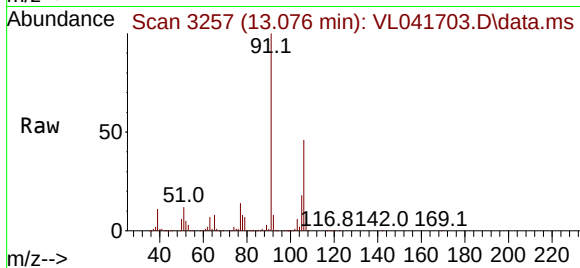
Tgt Ion:104 Resp: 49032

Ion Ratio Lower Upper

104 100

78 336.9 39.8 59.8#

103 267.2 37.4 56.0#



#68

1-Bromo-4-Fluorobenzene

Concen: 10.615 ppbv

RT: 13.793 min Scan# 3480

Delta R.T. 0.020 min

Lab File: VL041703.D

Acq: 20 Nov 2024 17:13

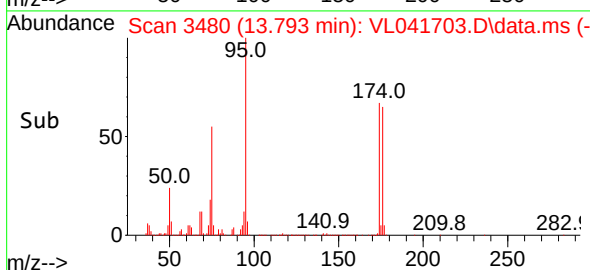
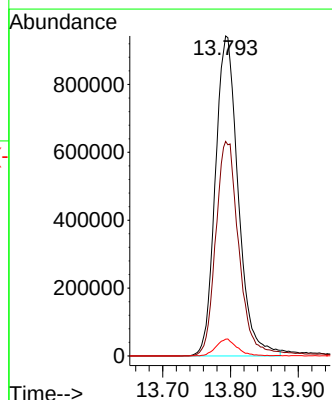
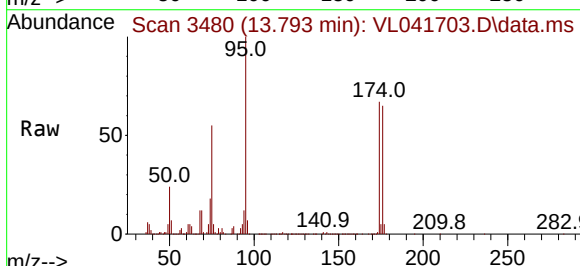
Tgt Ion: 95 Resp: 2210509

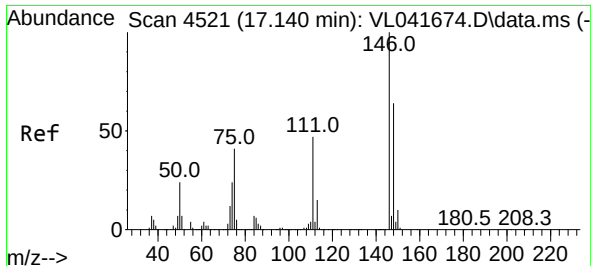
Ion Ratio Lower Upper

95 100

174 69.4 55.6 83.4

175 5.1 4.2 6.2

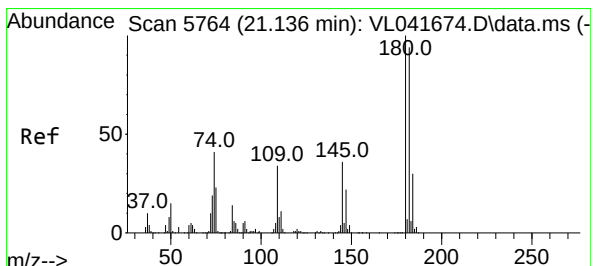
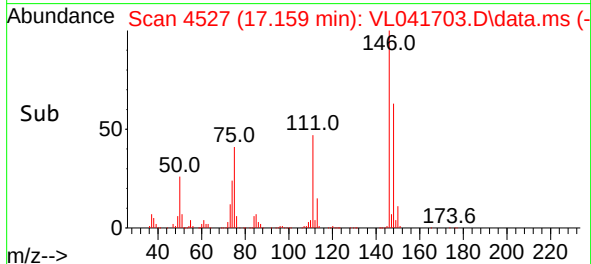
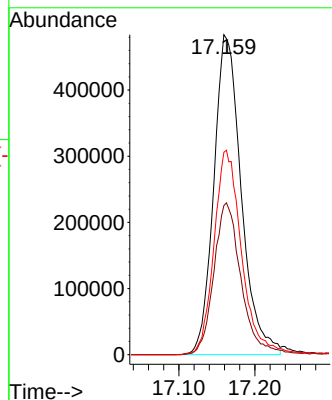
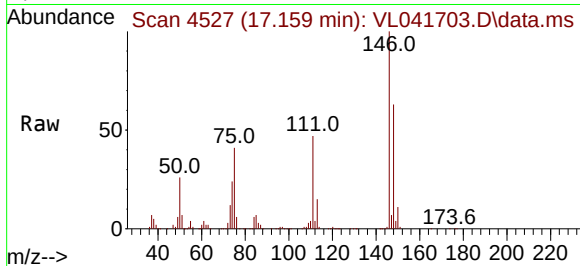




#77
1,2-Dichlorobenzene
Concen: 6.304 ppbv
RT: 17.159 min Scan# 41
Delta R.T. 0.020 min
Lab File: VL041703.D
Acq: 20 Nov 2024 17:13

Instrument :
MSVOA_L
ClientSampleId :
E070-1100DL

Tgt Ion:146 Resp: 1212635
Ion Ratio Lower Upper
146 100
111 47.5 23.4 70.3
148 64.6 32.1 96.5



#81
1,2,4-Trichlorobenzene
Concen: 4.142 ppbv
RT: 21.166 min Scan# 5773
Delta R.T. 0.029 min
Lab File: VL041703.D
Acq: 20 Nov 2024 17:13

Tgt Ion:180 Resp: 504146
Ion Ratio Lower Upper
180 100
182 104.6 78.2 117.2
184 31.4 25.0 37.4

