

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL080723\
 Data File : VL040594.D
 Acq On : 7 Aug 2023 11:55
 Operator : SY/MD
 Sample : 03861-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 E065-1100

Quant Time: Aug 08 01:40:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL071023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Mon Jul 10 16:32:00 2023
 Response via : Initial Calibration

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

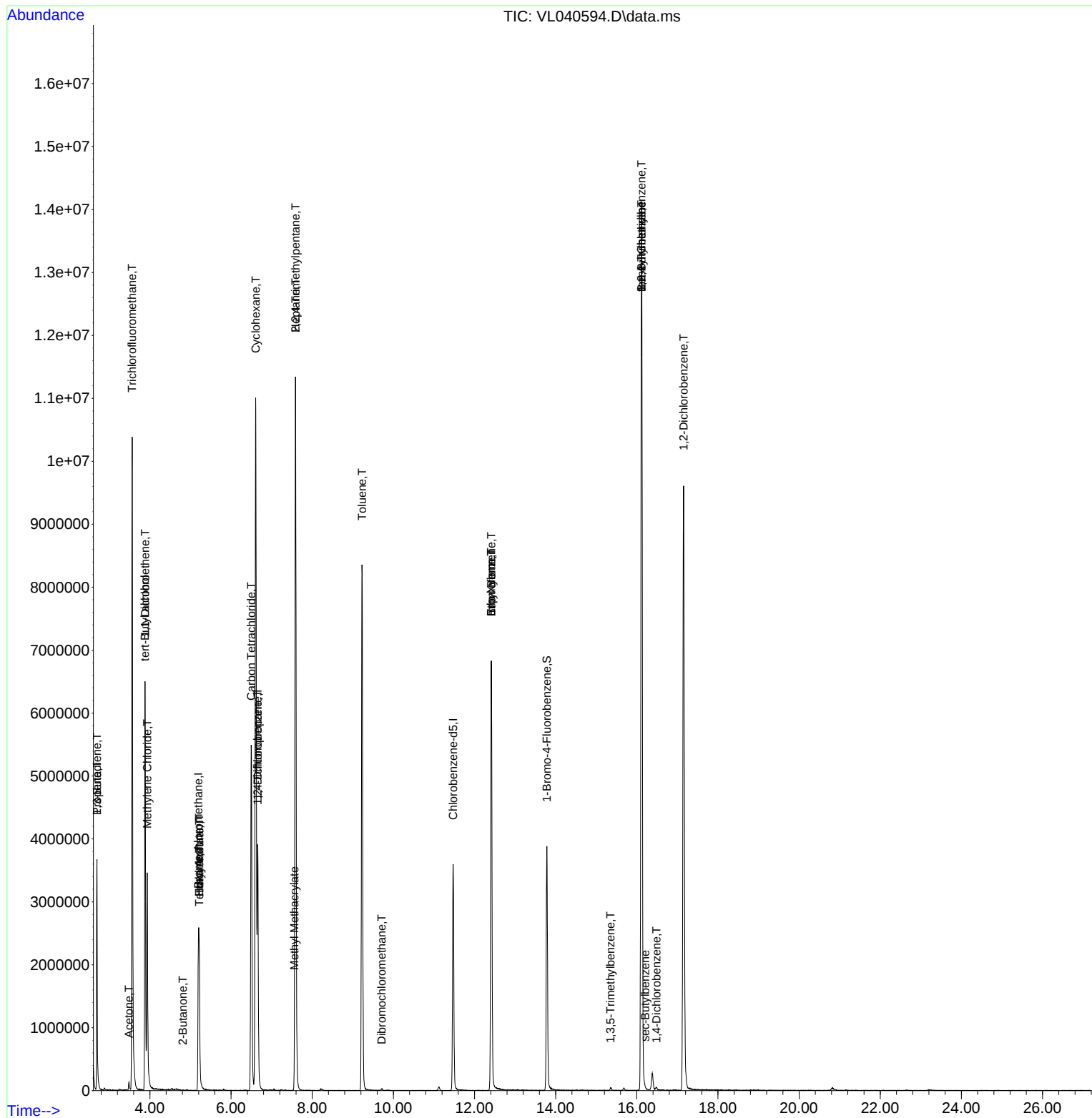
Internal Standards						
1) Bromochloromethane	5.195	49	1030053	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.655	114	2582592	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.474	117	2163141	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.783	95	1773824	10.361	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.600%
Target Compounds						Qvalue
9) Propene	2.693	41	1420145	25.408	ppbv	99
10) Heptane	7.587	43	5150477	41.731	ppbv	99
11) Trichlorofluoromethane	3.562	101	7087195	42.629	ppbv	95
15) Acetone	3.481	43	126664	1.068	ppbv	97
16) 1,3-Butadiene	2.693	39	1218664	20.373	ppbv #	8
17) tert-Butyl alcohol	3.877	59	139078	1.134	ppbv #	72
18) 1,1-Dichloroethene	3.880	96	1942197	36.082	ppbv	95
20) Methylene Chloride	3.935	84	1123908	22.284	ppbv	100
25) Ethyl Acetate	5.214	43	468154	2.074	ppbv #	76
26) Hexane	5.214	57	693911	6.617	ppbv #	40
30) Cyclohexane	6.606	84	4084298	46.807	ppbv	94
34) 2-Butanone	4.809	43	4985	0.039	ppbv #	74
35) Carbon Tetrachloride	6.497	117	3380265	21.749	ppbv	100
39) 1,2-Dichloropropane	6.658	63	669840	8.374	ppbv #	31
41) Tetrahydrofuran	5.217	42	271617	3.647	ppbv #	46
43) Methyl Methacrylate	7.558	69	13506	0.174	ppbv #	1
44) 2,2,4-Trimethylpentane	7.587	57	2755880	8.243	ppbv #	1
48) Dibromochloromethane	9.712	129	12054	0.088	ppbv	81
49) Bromoform	12.413	173	3596483	33.244	ppbv	99
53) Toluene	9.227	91	6617771	29.319	ppbv	99
58) Ethyl Benzene	12.413	91	1175023	4.329	ppbv #	43
59) m/p-Xylene	12.413	91	1175023	4.850	ppbv #	31
65) tert-Butylbenzene	16.117	119	1281302	4.184	ppbv #	60
66) Benzyl Chloride	16.117	91	1489944	68.769	ppbv #	63
67) sec-Butylbenzene	16.207	105	14217	0.032	ppbv #	67
73) 1,3,5-Trimethylbenzene	15.352	105	12619	0.053	ppbv #	80
74) 1,2,4-Trimethylbenzene	16.117	105	10894418	39.181	ppbv #	72
76) 1,4-Dichlorobenzene	16.487	146	6425	0.039	ppbv #	1
77) 1,2-Dichlorobenzene	17.156	146	4917562	30.506	ppbv	98

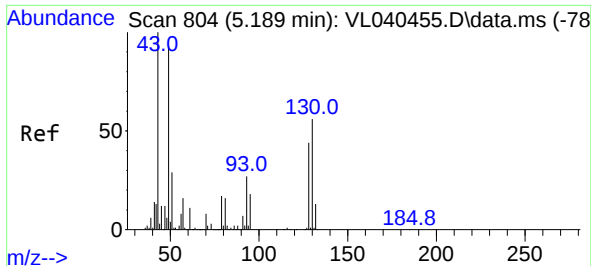
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VL040594.D
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
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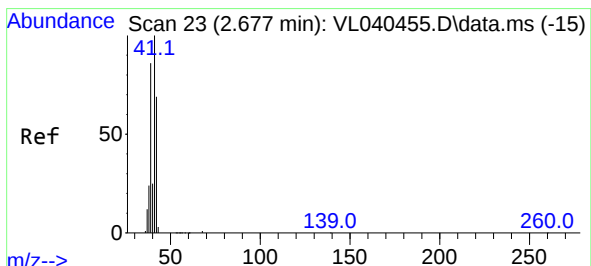
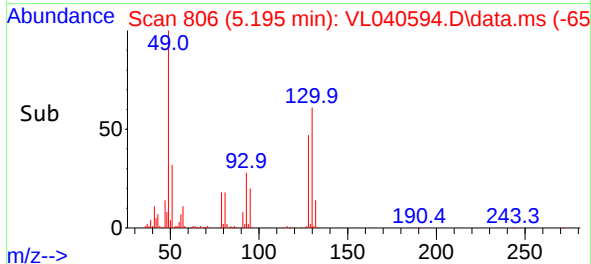
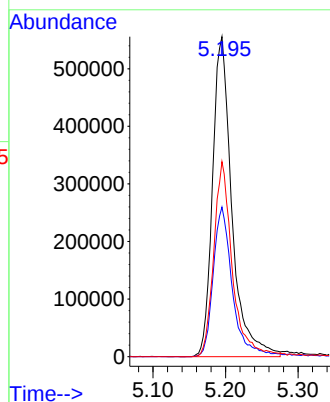
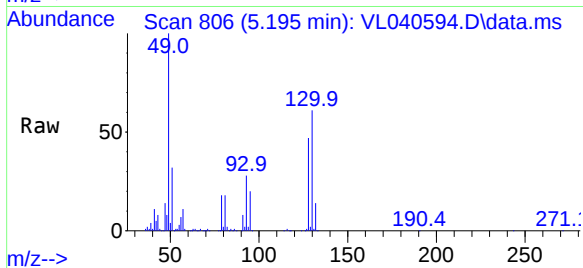




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.195 min Scan# 80
Delta R.T. -0.007 min
Lab File: VL040594.D
Acq: 7 Aug 2023 11:55

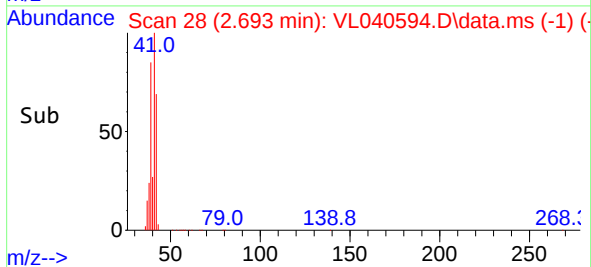
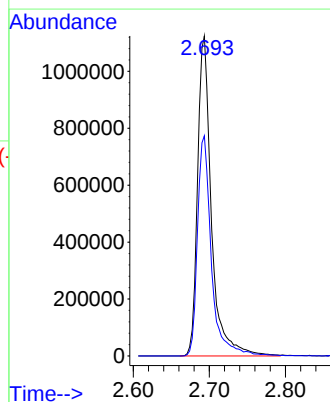
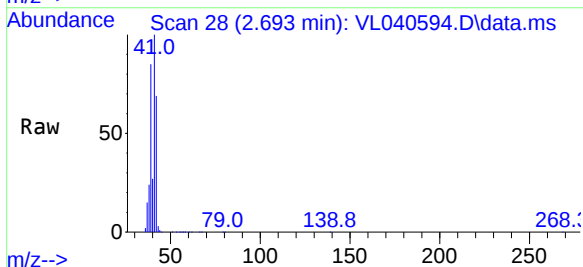
Instrument :
MSVOA_L
ClientSampleId :
E065-1100

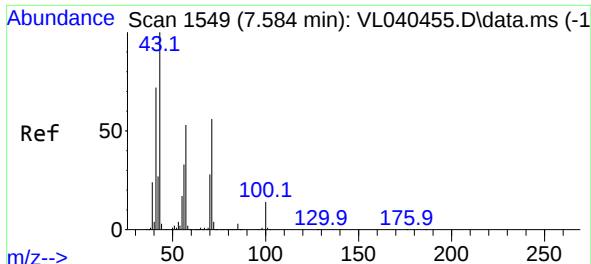
Tgt Ion: 49 Resp: 1030053
Ion Ratio Lower Upper
49 100
128 47.2 25.1 75.4
130 59.8 31.6 94.7



#9
Propene
Concen: 25.408 ppbv
RT: 2.693 min Scan# 28
Delta R.T. -0.010 min
Lab File: VL040594.D
Acq: 7 Aug 2023 11:55

Tgt Ion: 41 Resp: 1420145
Ion Ratio Lower Upper
41 100
42 69.3 55.0 82.6





#10

Heptane

Concen: 41.731 ppbv

RT: 7.587 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL040594.D

Acq: 7 Aug 2023 11:55

Instrument :

MSVOA_L

ClientSampleId :

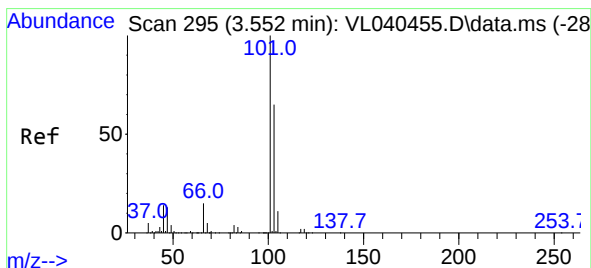
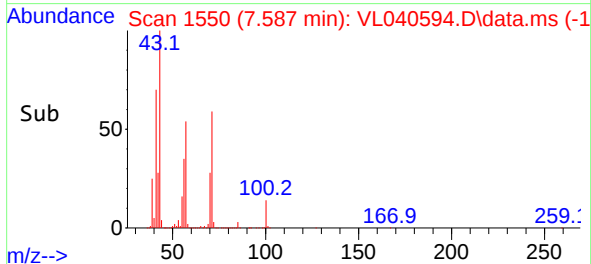
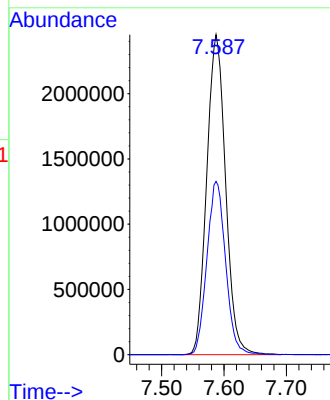
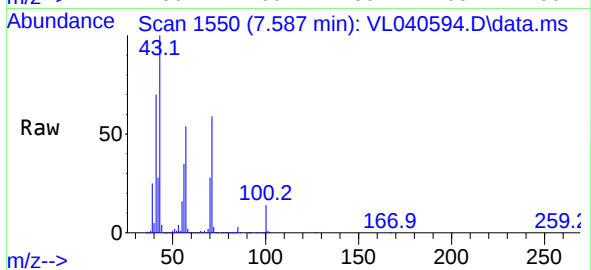
E065-1100

Tgt Ion: 43 Resp: 5150477

Ion Ratio Lower Upper

43 100

57 53.7 42.5 63.7



#11

Trichlorofluoromethane

Concen: 42.629 ppbv

RT: 3.562 min Scan# 298

Delta R.T. -0.010 min

Lab File: VL040594.D

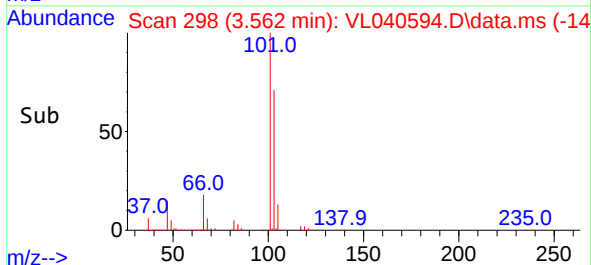
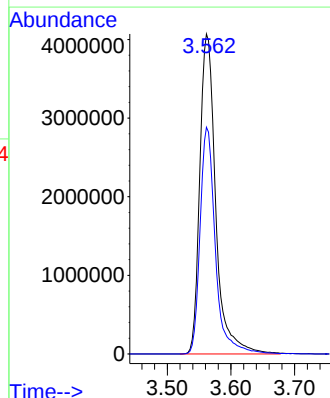
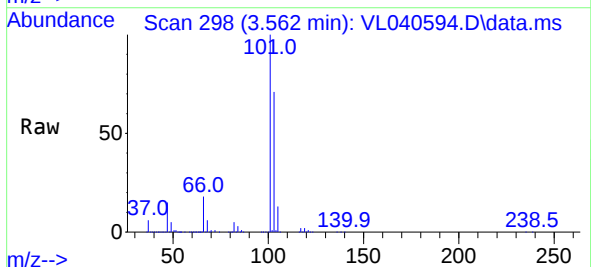
Acq: 7 Aug 2023 11:55

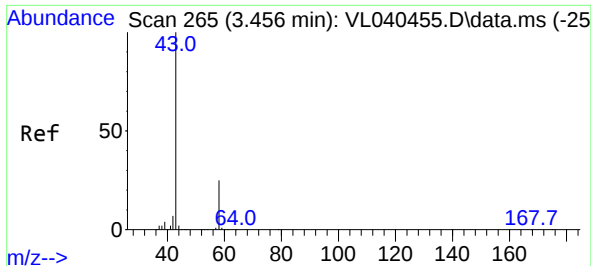
Tgt Ion:101 Resp: 7087195

Ion Ratio Lower Upper

101 100

103 70.9 53.4 80.0

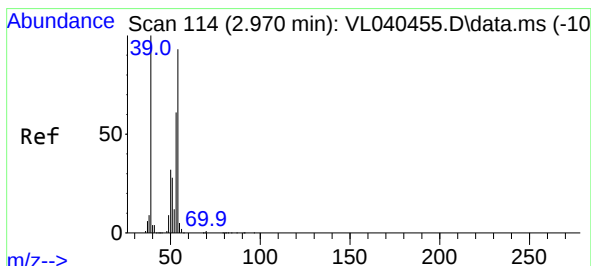
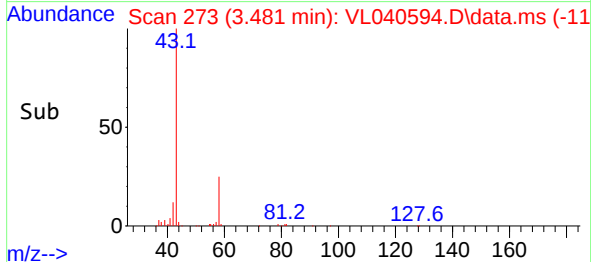
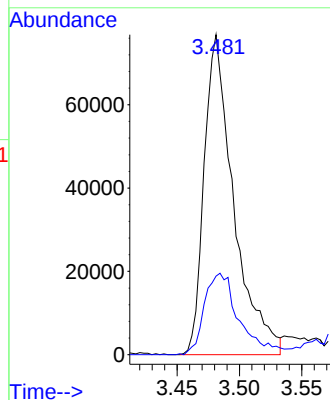
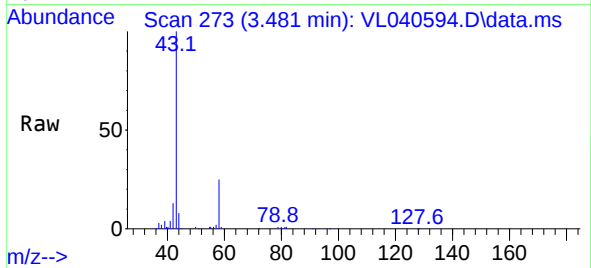




#15
Acetone
Concen: 1.068 ppbv
RT: 3.481 min Scan# 21
Delta R.T. 0.006 min
Lab File: VL040594.D
Acq: 7 Aug 2023 11:55

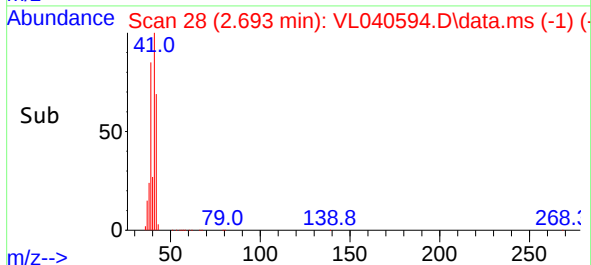
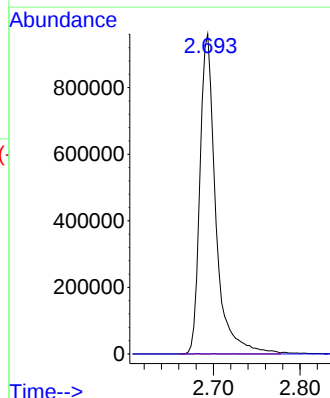
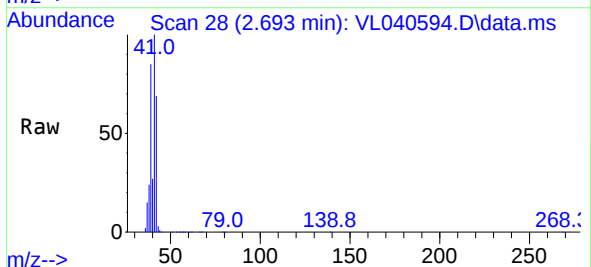
Instrument :
MSVOA_L
ClientSampleId :
E065-1100

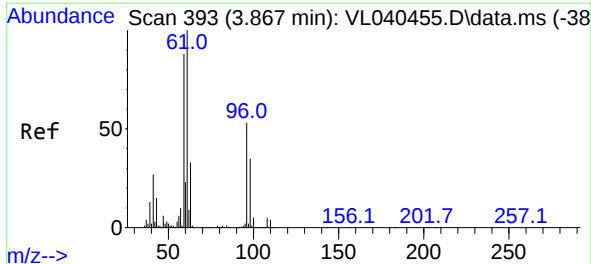
Tgt Ion: 43 Resp: 126664
Ion Ratio Lower Upper
43 100
58 30.1 22.9 34.3



#16
1,3-Butadiene
Concen: 20.373 ppbv
RT: 2.693 min Scan# 28
Delta R.T. -0.299 min
Lab File: VL040594.D
Acq: 7 Aug 2023 11:55

Tgt Ion: 39 Resp: 1218664
Ion Ratio Lower Upper
39 100
54 0.0 66.6 100.0#





#17

tert-Butyl alcohol

Concen: 1.134 ppbv

RT: 3.877 min Scan# 393

Delta R.T. -0.007 min

Lab File: VL040594.D

Acq: 7 Aug 2023 11:55

Instrument :

MSVOA_L

ClientSampleId :

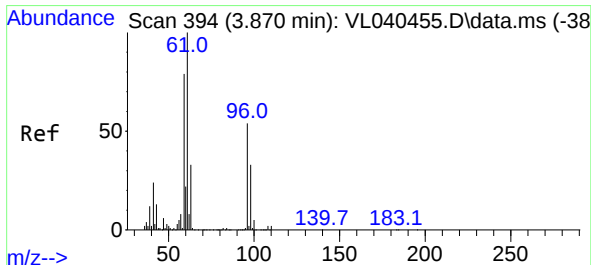
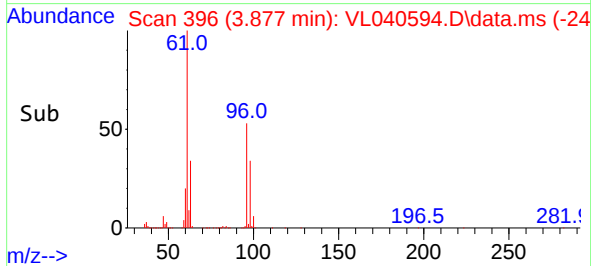
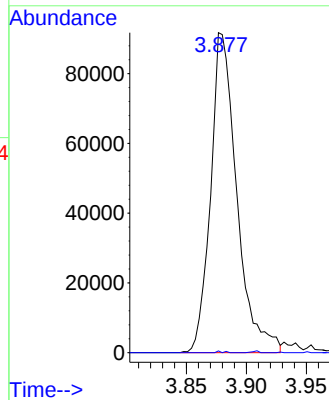
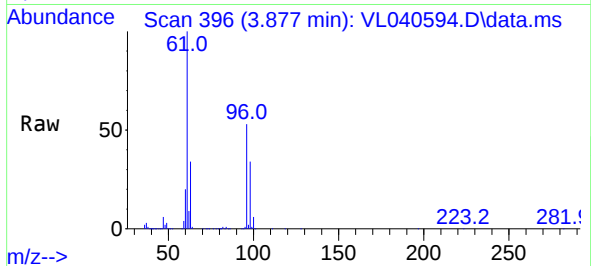
E065-1100

Tgt Ion: 59 Resp: 139078

Ion Ratio Lower Upper

59 100

57 0.2 8.7 13.1#



#18

1,1-Dichloroethene

Concen: 36.082 ppbv

RT: 3.880 min Scan# 397

Delta R.T. -0.010 min

Lab File: VL040594.D

Acq: 7 Aug 2023 11:55

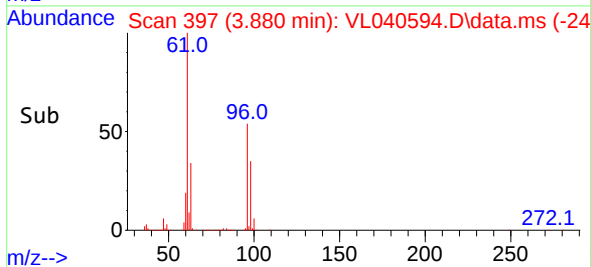
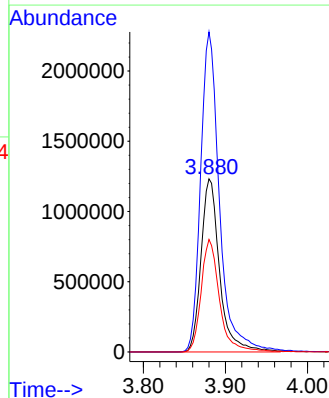
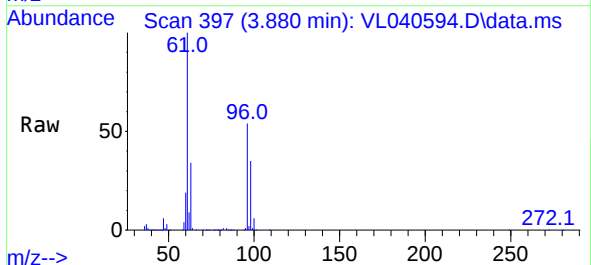
Tgt Ion: 96 Resp: 1942197

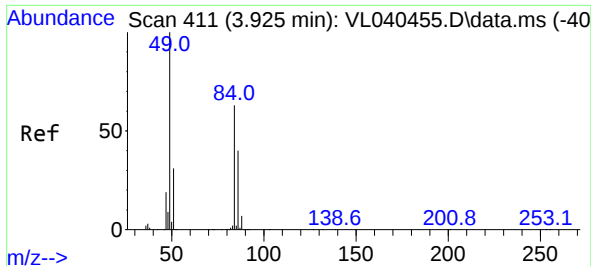
Ion Ratio Lower Upper

96 100

61 184.7 154.4 231.6

98 64.9 50.0 75.0



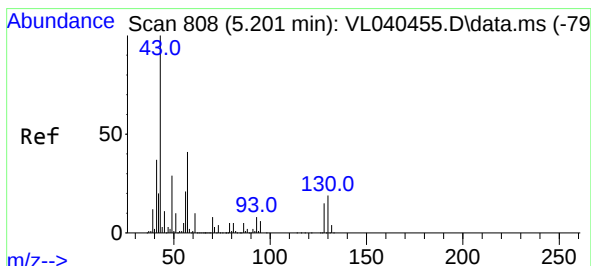
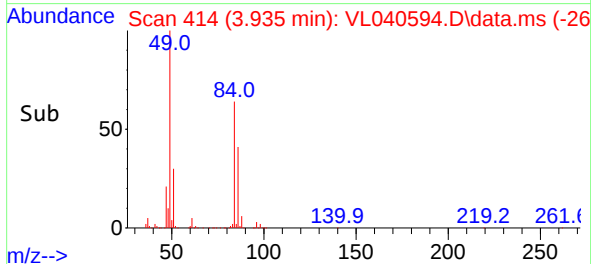
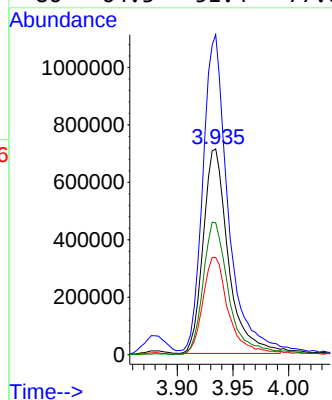
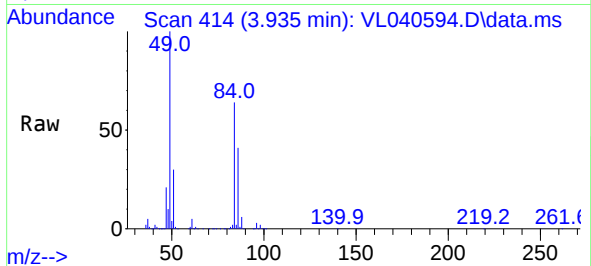


#20
Methylene Chloride
Concen: 22.284 ppbv
RT: 3.935 min Scan# 411
Delta R.T. -0.007 min
Lab File: VL040594.D
Acq: 7 Aug 2023 11:55

Instrument :
MSVOA_L
ClientSampleId :
E065-1100

Tgt Ion: 84 Resp: 1123908

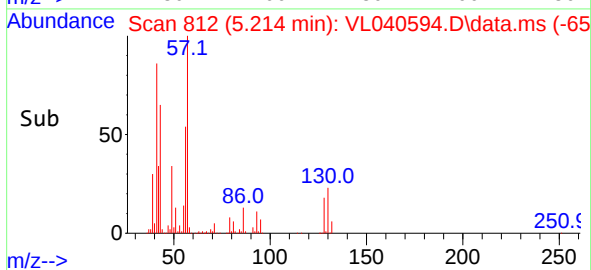
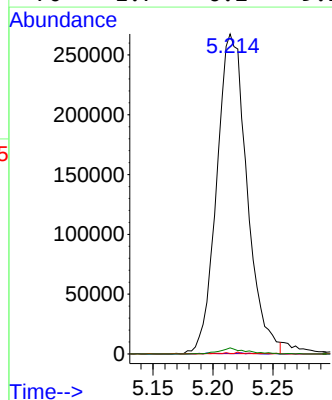
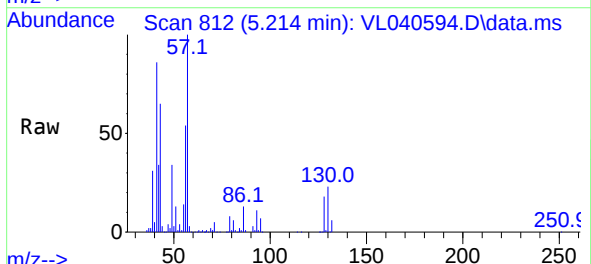
Ion	Ratio	Lower	Upper
84	100		
49	154.4	123.4	185.2
51	47.2	38.3	57.5
86	64.3	51.4	77.0

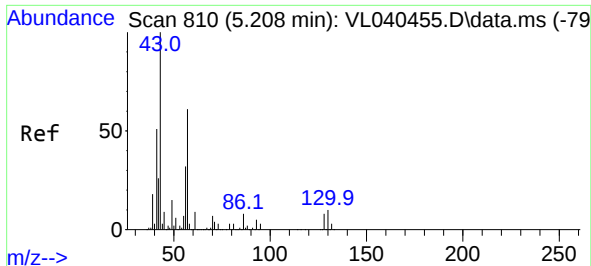


#25
Ethyl Acetate
Concen: 2.074 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.003 min
Lab File: VL040594.D
Acq: 7 Aug 2023 11:55

Tgt Ion: 43 Resp: 468154

Ion	Ratio	Lower	Upper
43	100		
45	0.3	8.2	12.4#
61	0.5	8.3	12.5#
70	1.7	6.2	9.2#

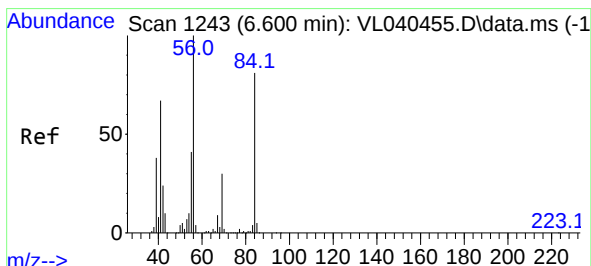
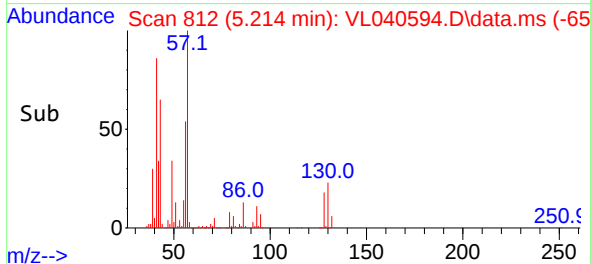
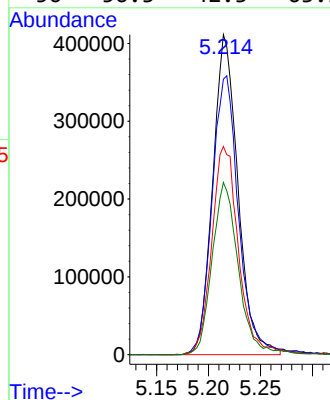
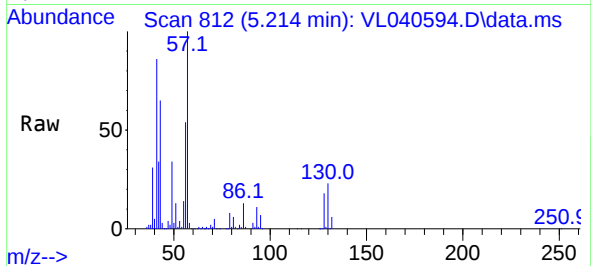




#26
Hexane
Concen: 6.617 ppbv
RT: 5.214 min Scan# 81
Delta R.T. -0.007 min
Lab File: VL040594.D
Acq: 7 Aug 2023 11:55

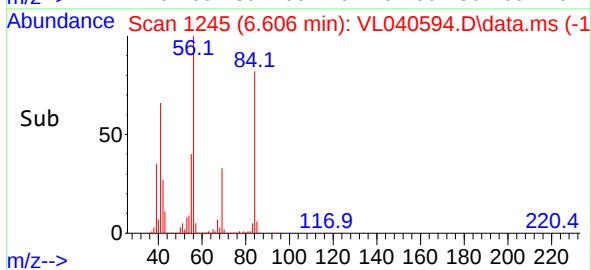
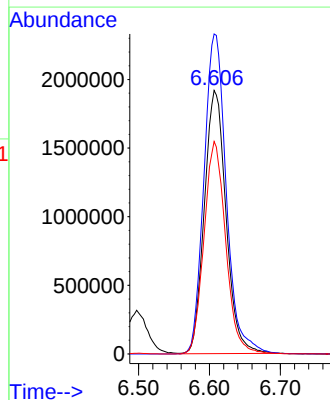
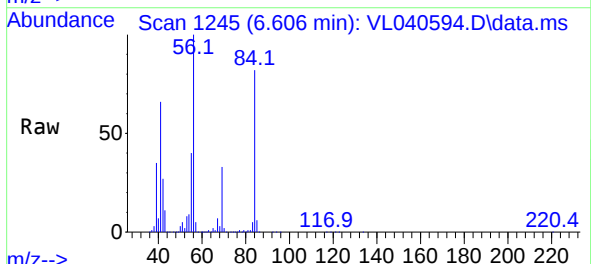
Instrument :
MSVOA_L
ClientSampleId :
E065-1100

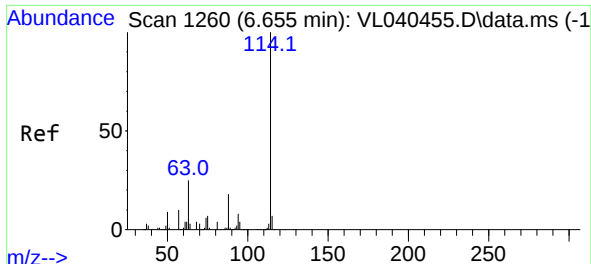
Tgt Ion: 57 Resp: 693911
Ion Ratio Lower Upper
57 100
41 93.1 69.5 104.3
43 69.7 177.1 265.7#
56 56.3 42.3 63.5



#30
Cyclohexane
Concen: 46.807 ppbv
RT: 6.606 min Scan# 1245
Delta R.T. -0.003 min
Lab File: VL040594.D
Acq: 7 Aug 2023 11:55

Tgt Ion: 84 Resp: 4084298
Ion Ratio Lower Upper
84 100
56 125.0 108.7 163.1
41 80.8 64.5 96.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.655 min Scan# 11

Delta R.T. -0.010 min

Lab File: VL040594.D

Acq: 7 Aug 2023 11:55

Instrument :

MSVOA_L

ClientSampleId :

E065-1100

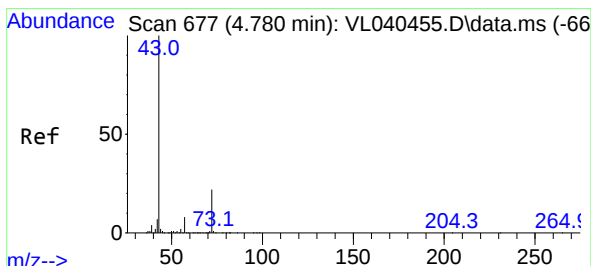
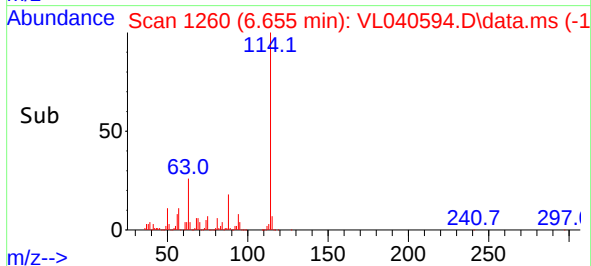
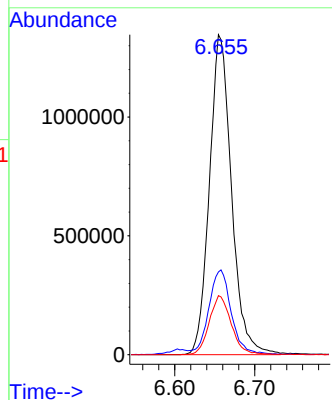
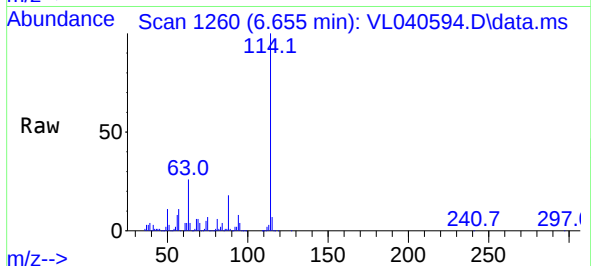
Tgt Ion:114 Resp: 2582592

Ion Ratio Lower Upper

114 100

63 28.6 19.6 29.4

88 18.5 14.2 21.2



#34

2-Butanone

Concen: 0.039 ppbv

RT: 4.809 min Scan# 686

Delta R.T. 0.016 min

Lab File: VL040594.D

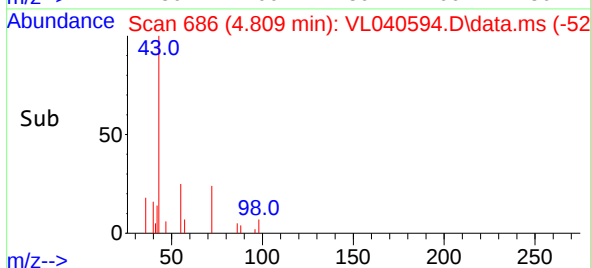
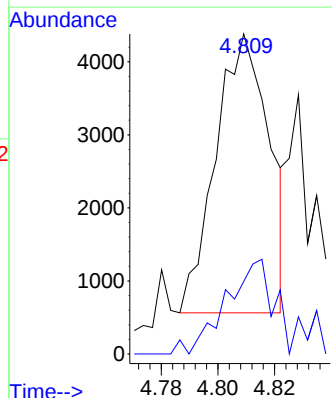
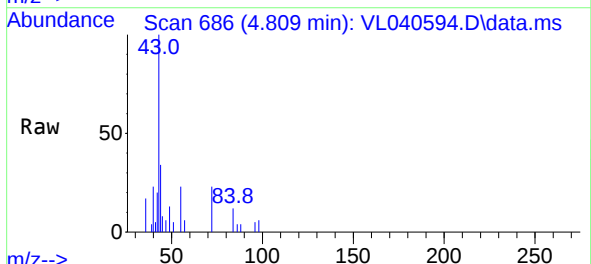
Acq: 7 Aug 2023 11:55

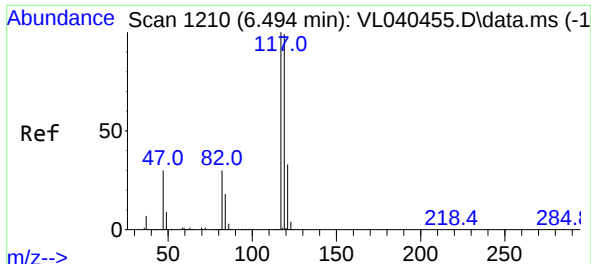
Tgt Ion: 43 Resp: 4985

Ion Ratio Lower Upper

43 100

72 36.6 19.1 28.7#

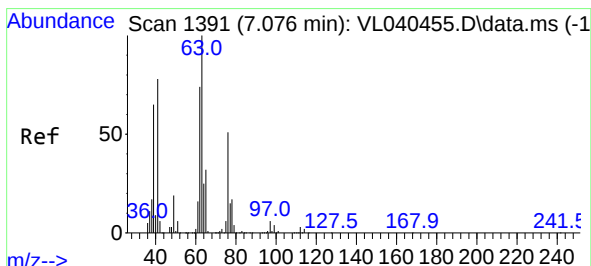
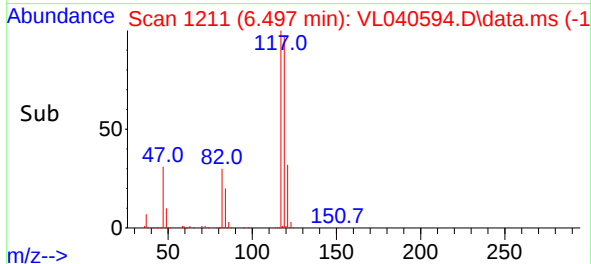
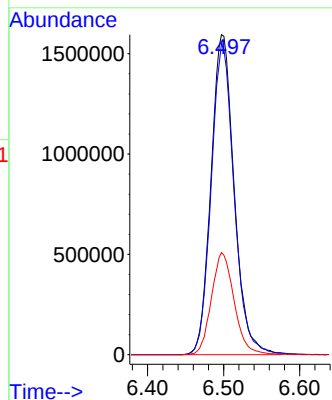
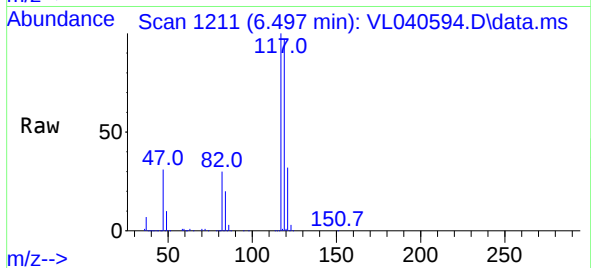




#35
Carbon Tetrachloride
Concen: 21.749 ppbv
RT: 6.497 min Scan# 11
Delta R.T. -0.007 min
Lab File: VL040594.D
Acq: 7 Aug 2023 11:55

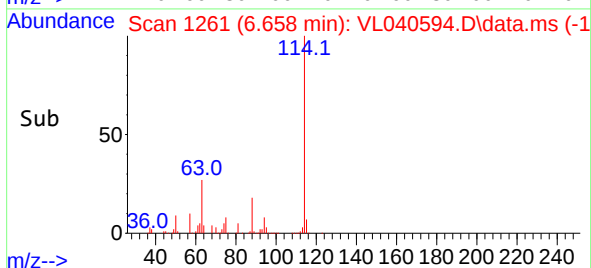
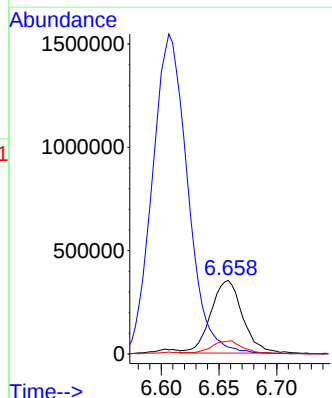
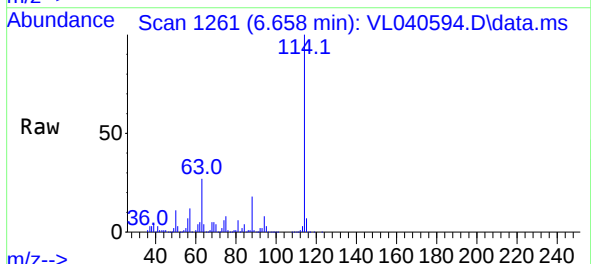
Instrument :
MSVOA_L
ClientSampleId :
E065-1100

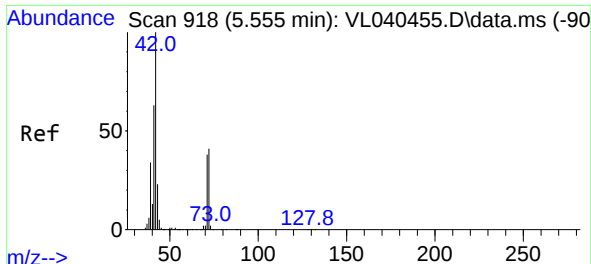
Tgt Ion:117 Resp: 3380265
Ion Ratio Lower Upper
117 100
119 97.2 77.8 116.6
121 31.9 24.8 37.2



#39
1,2-Dichloropropane
Concen: 8.374 ppbv
RT: 6.658 min Scan# 1261
Delta R.T. -0.425 min
Lab File: VL040594.D
Acq: 7 Aug 2023 11:55

Tgt Ion: 63 Resp: 669840
Ion Ratio Lower Upper
63 100
41 8.9 54.3 81.5#
62 17.1 55.6 83.4#





#41

Tetrahydrofuran

Concen: 3.647 ppbv

RT: 5.217 min Scan# 81

Delta R.T. -0.347 min

Lab File: VL040594.D

Acq: 7 Aug 2023 11:55

Instrument :

MSVOA_1

ClientSampleId :

E065-1100

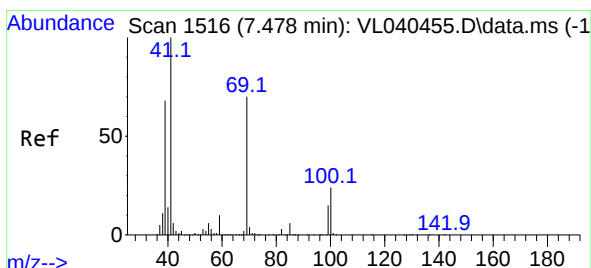
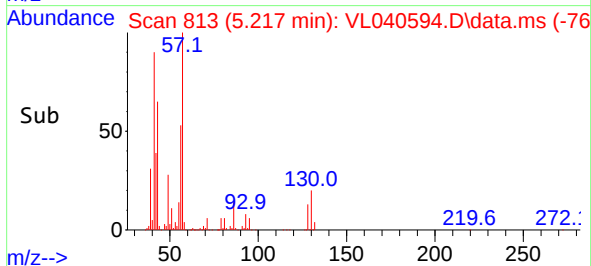
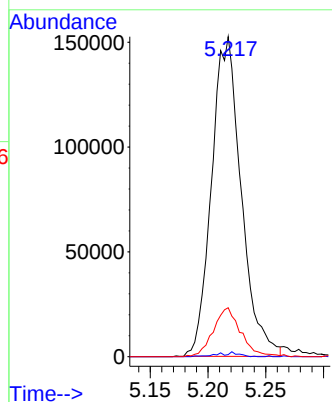
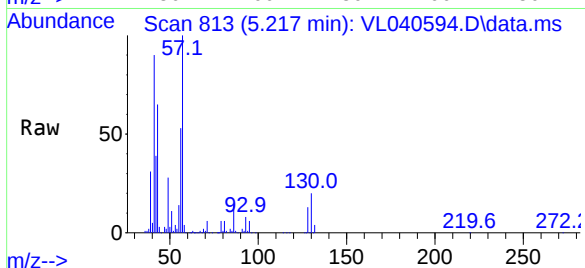
Tgt Ion: 42 Resp: 271617

Ion Ratio Lower Upper

42 100

72 1.0 33.8 50.8#

71 14.3 33.0 49.6#



#43

Methyl Methacrylate

Concen: 0.174 ppbv

RT: 7.558 min Scan# 1541

Delta R.T. 0.074 min

Lab File: VL040594.D

Acq: 7 Aug 2023 11:55

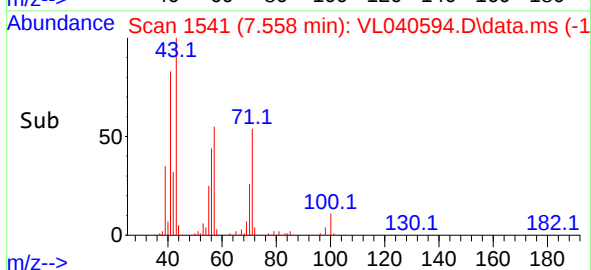
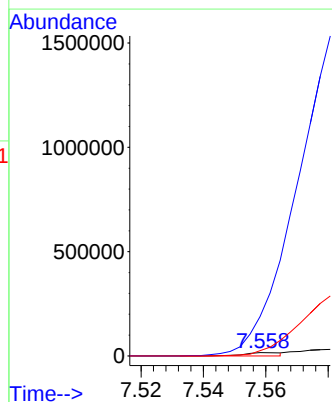
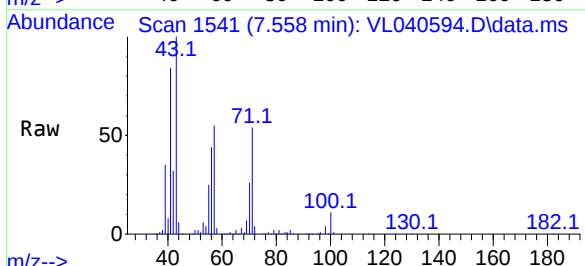
Tgt Ion: 69 Resp: 13506

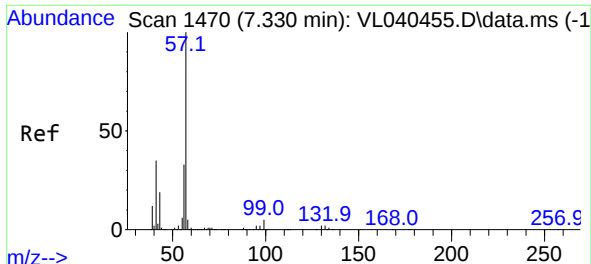
Ion Ratio Lower Upper

69 100

41 0.0 111.7 167.5#

100 0.0 26.9 40.3#





#44

2,2,4-Trimethylpentane

Concen: 8.243 ppbv

RT: 7.587 min Scan# 11

Delta R.T. 0.251 min

Lab File: VL040594.D

Acq: 7 Aug 2023 11:55

Instrument :

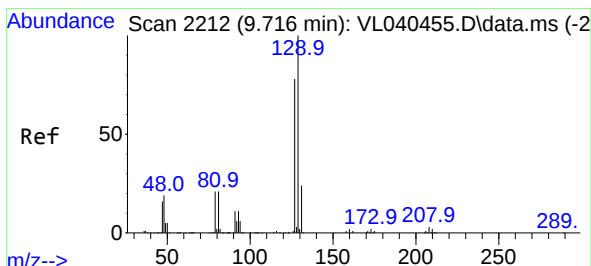
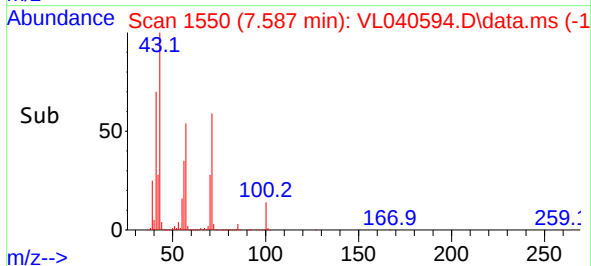
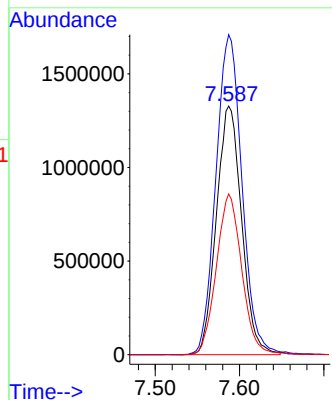
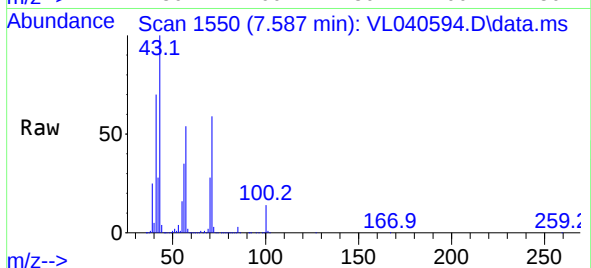
MSVOA_L

ClientSampleId :

E065-1100

Tgt Ion: 57 Resp: 2755880

Ion	Ratio	Lower	Upper
57	100		
41	133.9	25.5	38.3#
56	65.3	25.1	37.7#



#48

Dibromochloromethane

Concen: 0.088 ppbv

RT: 9.712 min Scan# 2211

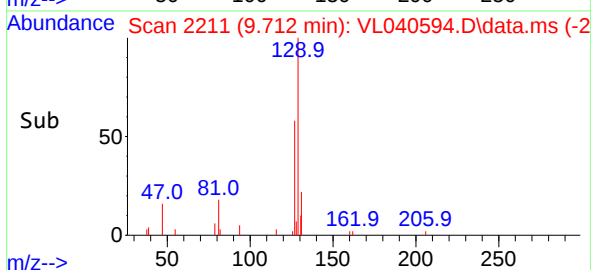
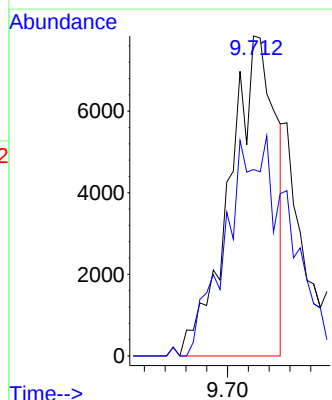
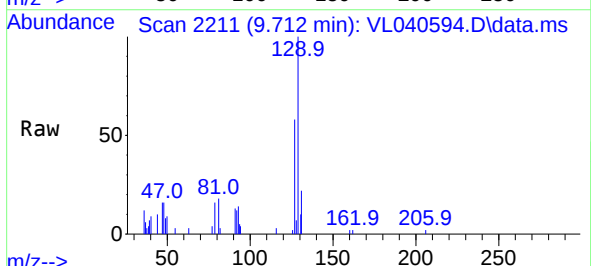
Delta R.T. -0.010 min

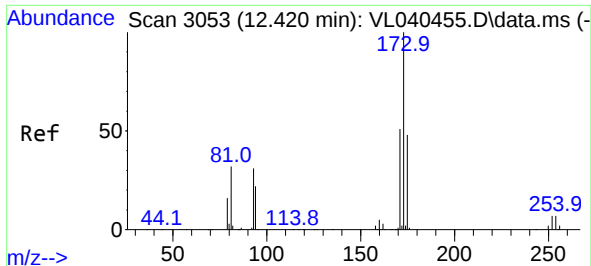
Lab File: VL040594.D

Acq: 7 Aug 2023 11:55

Tgt Ion: 129 Resp: 12054

Ion	Ratio	Lower	Upper
129	100		
127	94.6	39.1	117.3

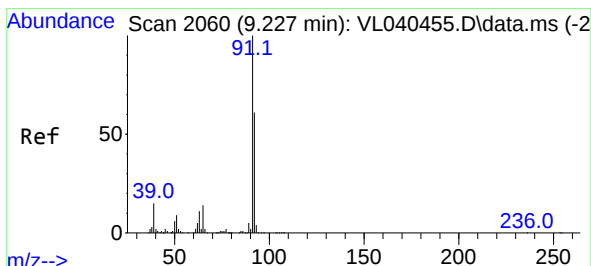
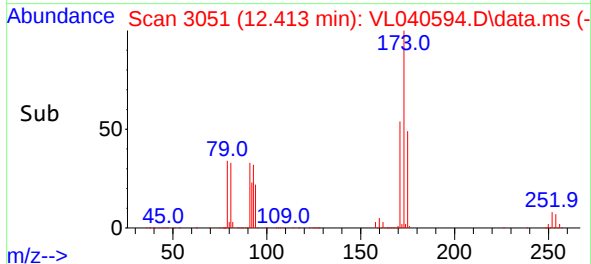
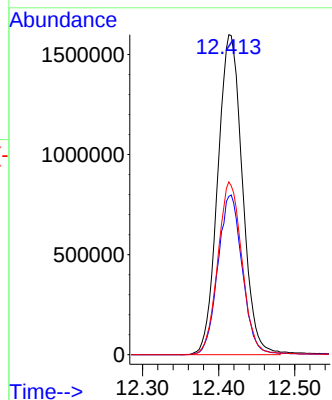
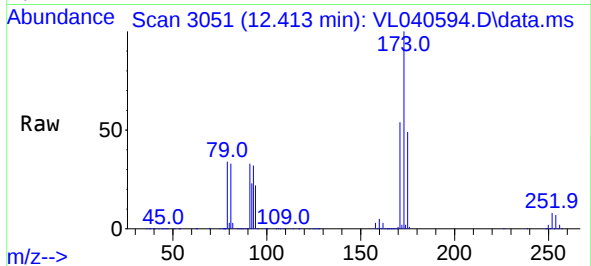




#49
Bromoform
Concen: 33.244 ppbv
RT: 12.413 min Scan# 3053
Delta R.T. -0.010 min
Lab File: VL040594.D
Acq: 7 Aug 2023 11:55

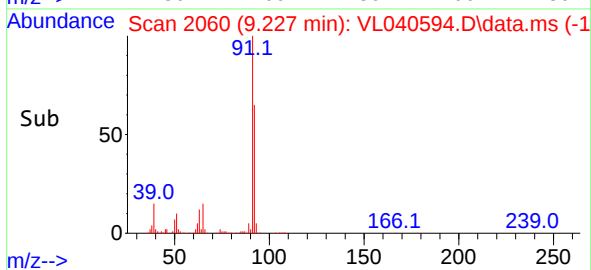
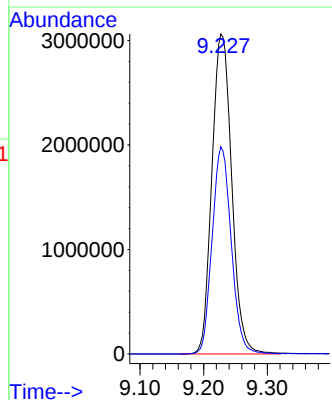
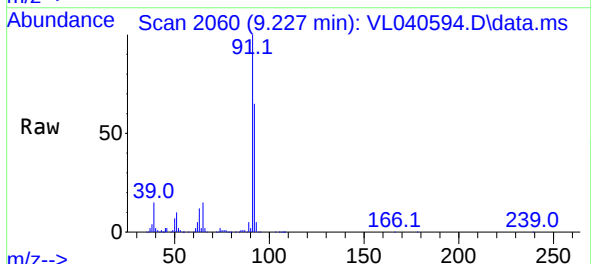
Instrument :
MSVOA_L
ClientSampleId :
E065-1100

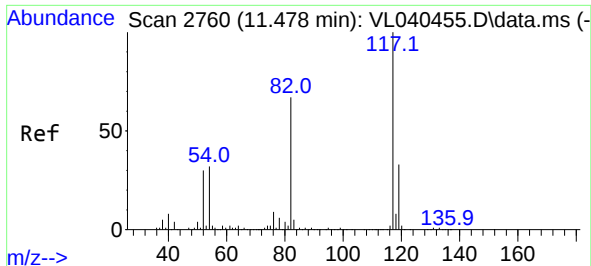
Tgt Ion:173 Resp: 3596483
Ion Ratio Lower Upper
173 100
175 49.7 39.5 59.3
171 53.7 42.2 63.4



#53
Toluene
Concen: 29.319 ppbv
RT: 9.227 min Scan# 2060
Delta R.T. -0.003 min
Lab File: VL040594.D
Acq: 7 Aug 2023 11:55

Tgt Ion: 91 Resp: 6617771
Ion Ratio Lower Upper
91 100
92 62.5 49.1 73.7

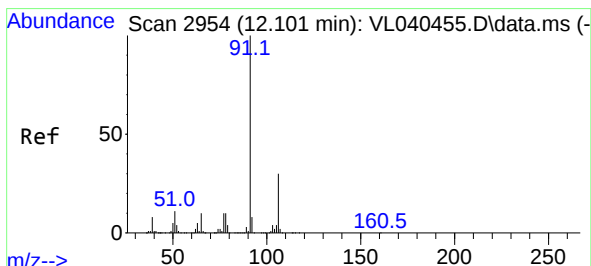
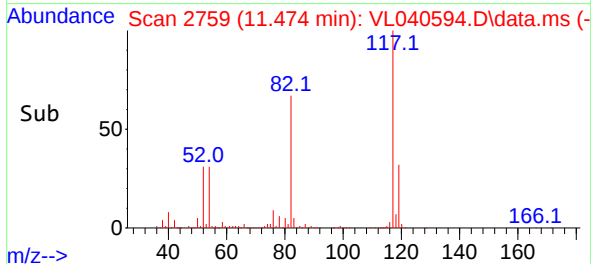
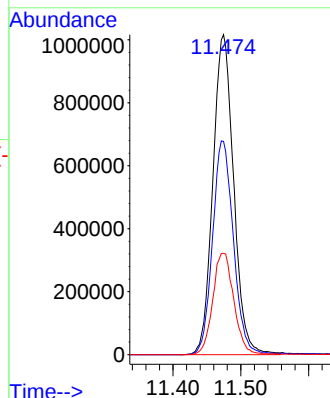
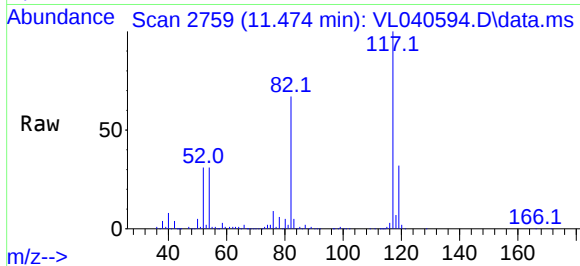




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.474 min Scan# 21
Delta R.T. -0.003 min
Lab File: VL040594.D
Acq: 7 Aug 2023 11:55

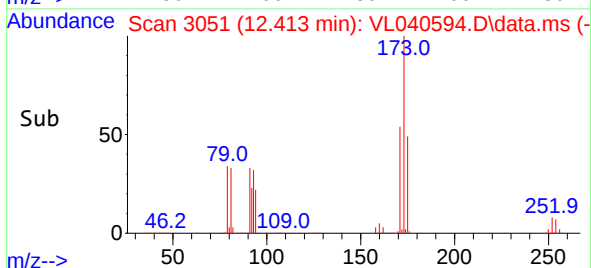
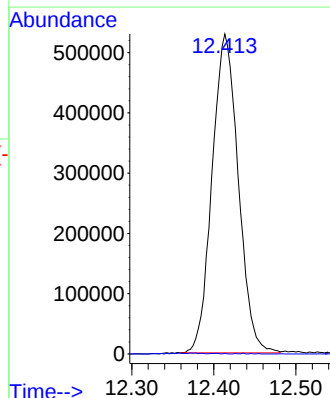
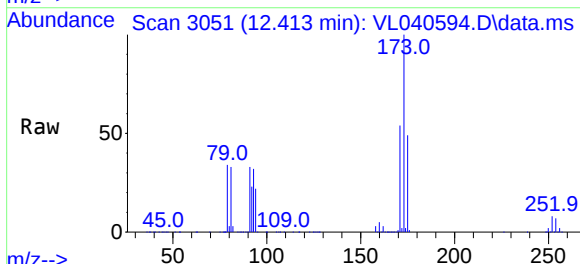
Instrument :
MSVOA_L
ClientSampleId :
E065-1100

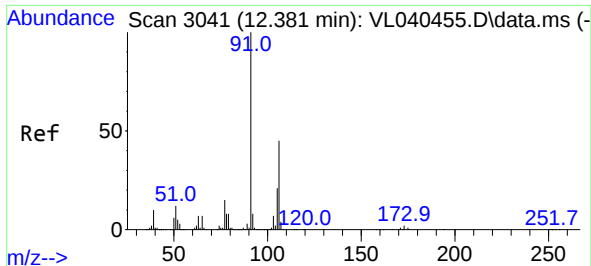
Tgt Ion:117 Resp: 2163141
Ion Ratio Lower Upper
117 100
82 67.8 50.2 75.4
119 32.3 26.9 40.3



#58
Ethyl Benzene
Concen: 4.329 ppbv
RT: 12.413 min Scan# 3051
Delta R.T. 0.312 min
Lab File: VL040594.D
Acq: 7 Aug 2023 11:55

Tgt Ion: 91 Resp: 1175023
Ion Ratio Lower Upper
91 100
106 0.1 25.4 38.0#





#59

m/p-Xylene

Concen: 4.850 ppbv

RT: 12.413 min Scan# 3041

Delta R.T. 0.029 min

Lab File: VL040594.D

Acq: 7 Aug 2023 11:55

Instrument :

MSVOA_L

ClientSampleId :

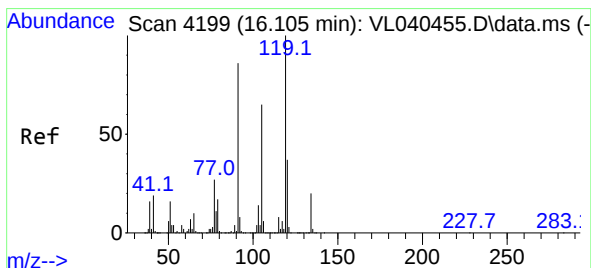
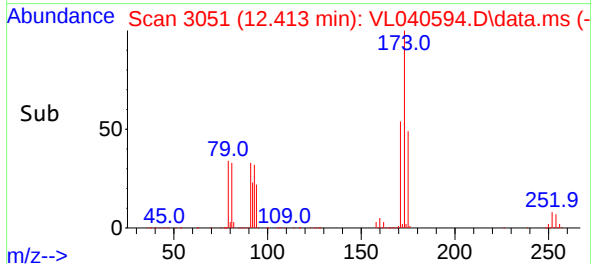
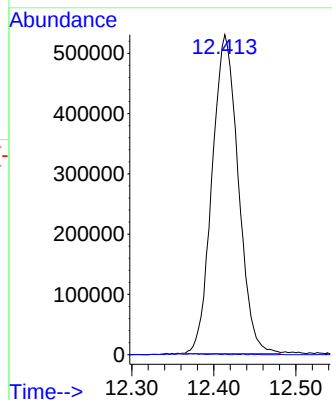
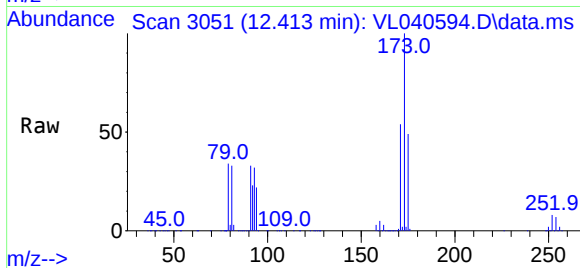
E065-1100

Tgt Ion: 91 Resp: 1175023

Ion Ratio Lower Upper

91 100

106 0.1 35.9 53.9#



#65

tert-Butylbenzene

Concen: 4.184 ppbv

RT: 16.117 min Scan# 4203

Delta R.T. 0.016 min

Lab File: VL040594.D

Acq: 7 Aug 2023 11:55

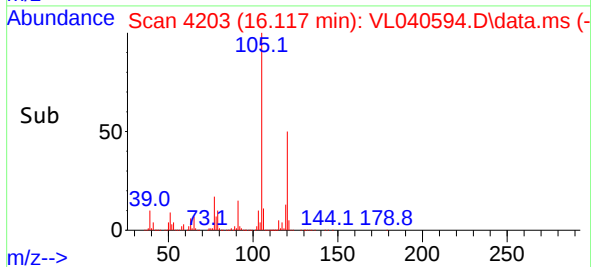
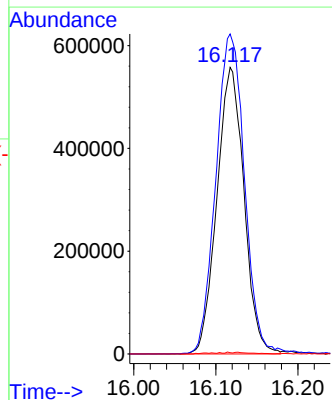
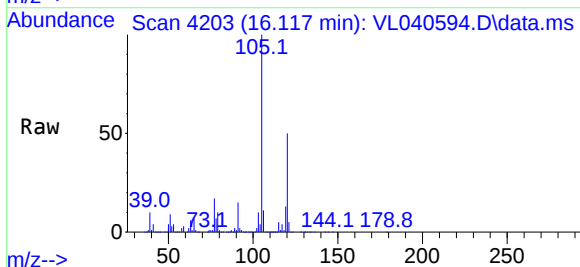
Tgt Ion: 119 Resp: 1281302

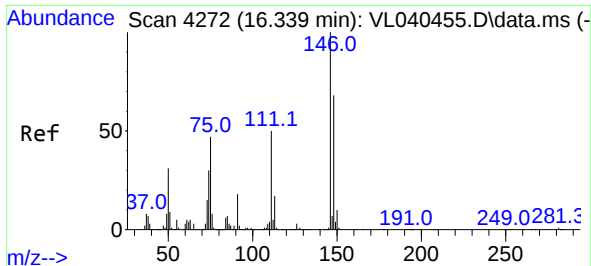
Ion Ratio Lower Upper

119 100

91 118.8 66.1 99.1#

134 0.9 15.7 23.5#

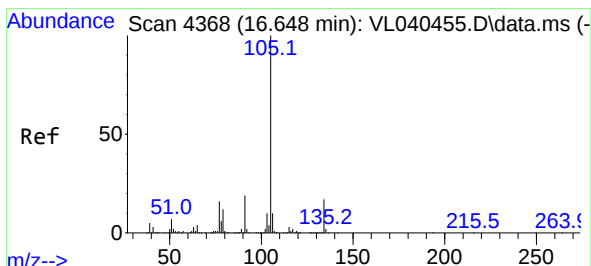
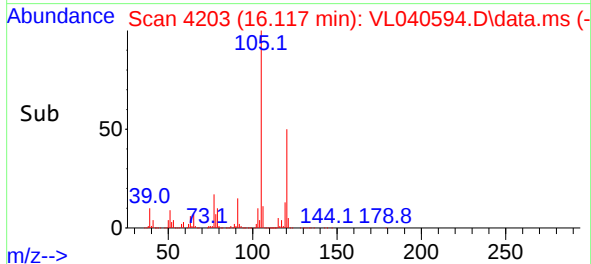
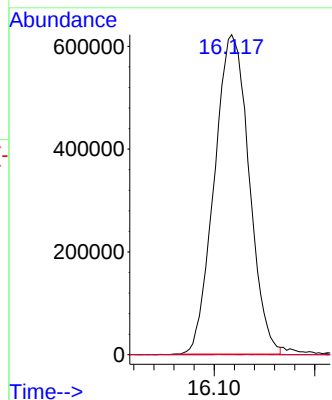
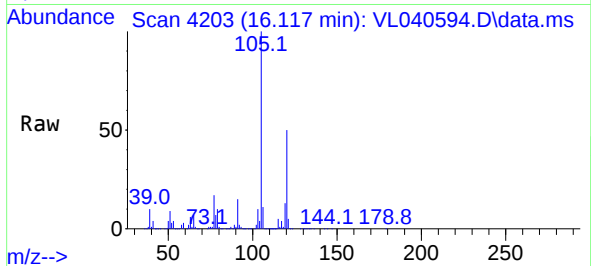




#66
Benzyl Chloride
Concen: 68.769 ppbv
RT: 16.117 min Scan# 41
Delta R.T. -0.219 min
Lab File: VL040594.D
Acq: 7 Aug 2023 11:55

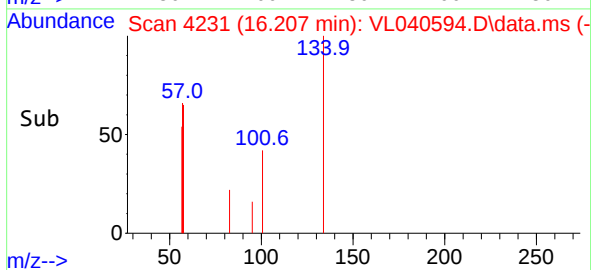
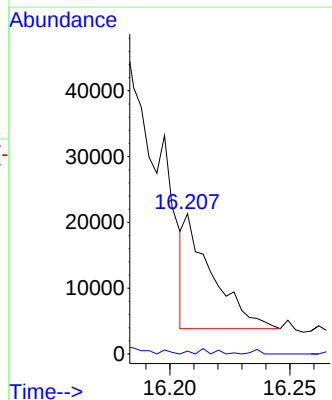
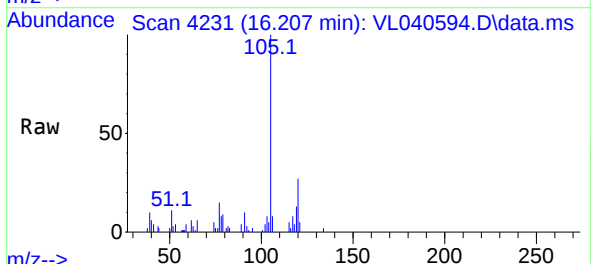
Instrument :
MSVOA_L
ClientSampleId :
E065-1100

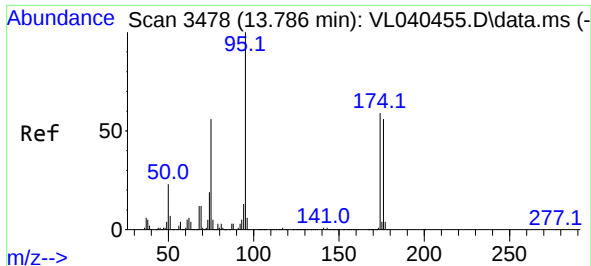
Tgt Ion: 91 Resp: 1489944
Ion Ratio Lower Upper
91 100
126 0.0 15.4 23.2#
128 0.0 4.5 6.7#



#67
sec-Butylbenzene
Concen: 0.032 ppbv
RT: 16.207 min Scan# 4231
Delta R.T. -0.441 min
Lab File: VL040594.D
Acq: 7 Aug 2023 11:55

Tgt Ion: 105 Resp: 14217
Ion Ratio Lower Upper
105 100
134 3.3 14.4 21.6#

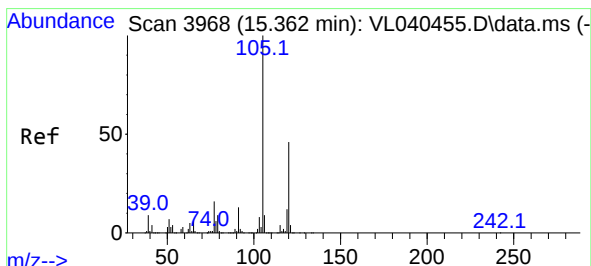
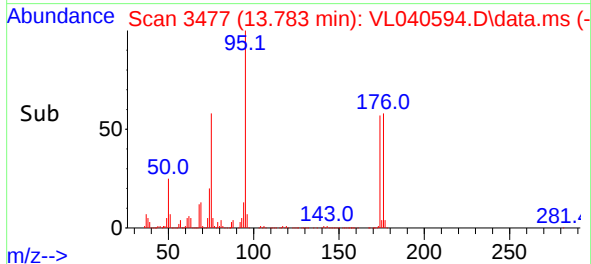
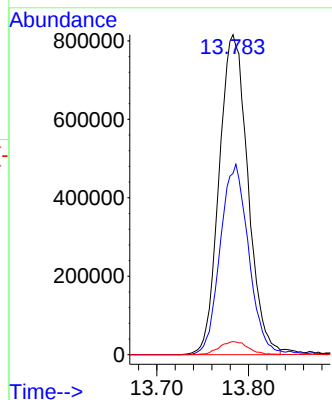
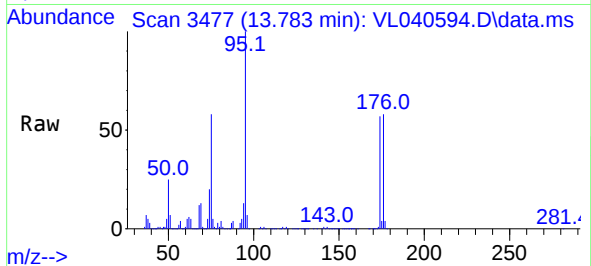




#68
1-Bromo-4-Fluorobenzene
Concen: 10.361 ppbv
RT: 13.783 min Scan# 3477
Delta R.T. -0.000 min
Lab File: VL040594.D
Acq: 7 Aug 2023 11:55

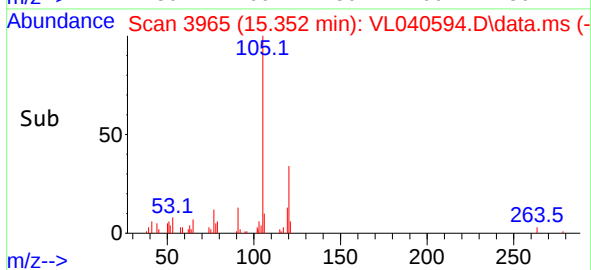
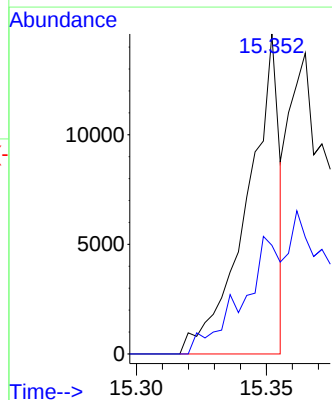
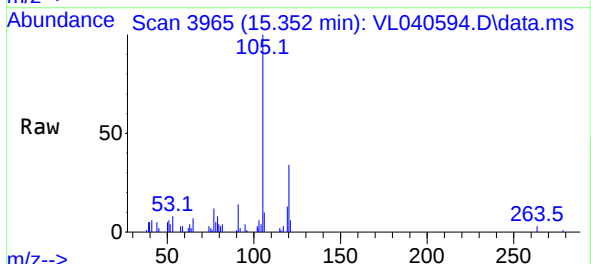
Instrument :
MSVOA_L
ClientSampleId :
E065-1100

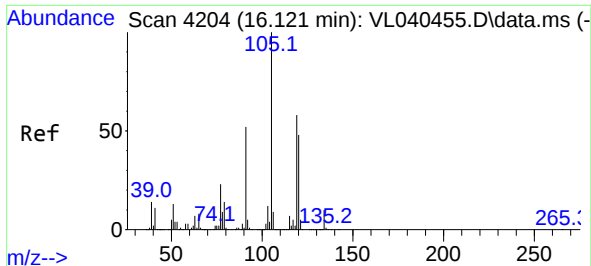
Tgt Ion: 95 Resp: 1773824
Ion Ratio Lower Upper
95 100
174 59.6 50.6 75.8
175 4.3 3.7 5.5



#73
1,3,5-Trimethylbenzene
Concen: 0.053 ppbv
RT: 15.352 min Scan# 3965
Delta R.T. -0.010 min
Lab File: VL040594.D
Acq: 7 Aug 2023 11:55

Tgt Ion: 105 Resp: 12619
Ion Ratio Lower Upper
105 100
120 34.0 38.2 57.2#

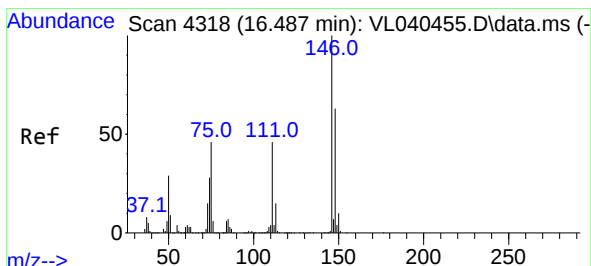
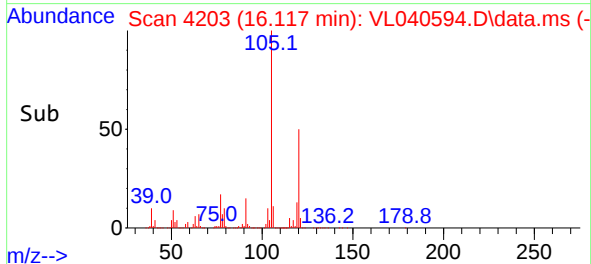
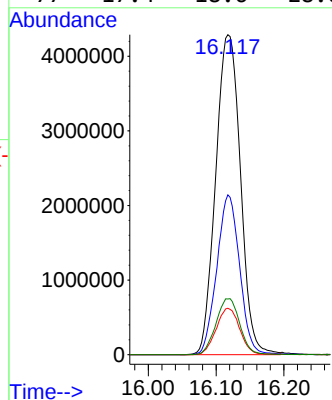
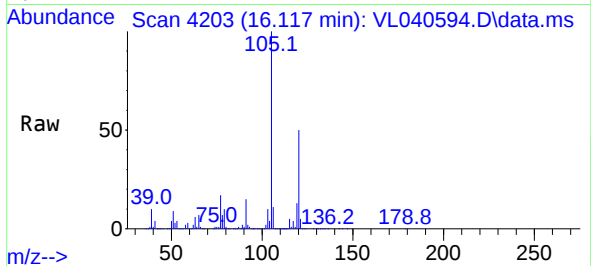




#74
1,2,4-Trimethylbenzene
Concen: 39.181 ppbv
RT: 16.117 min Scan# 418
Delta R.T. -0.000 min
Lab File: VL040594.D
Acq: 7 Aug 2023 11:55

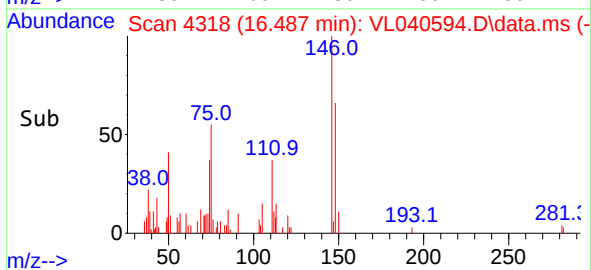
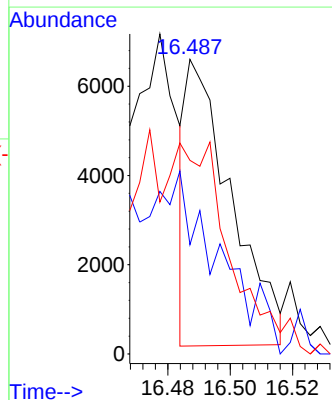
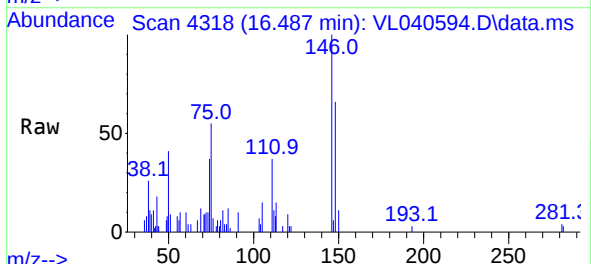
Instrument :
MSVOA_L
ClientSampleId :
E065-1100

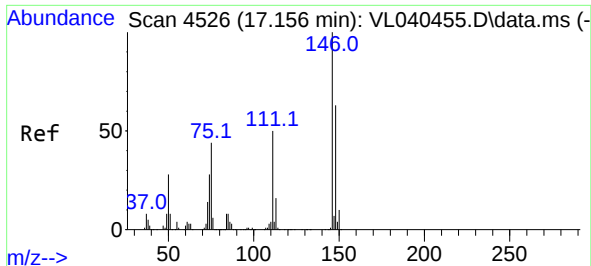
Tgt Ion:105 Resp:10894418
Ion Ratio Lower Upper
105 100
120 49.9 40.3 60.5
91 14.5 46.8 70.2#
77 17.4 18.6 28.0#



#76
1,4-Dichlorobenzene
Concen: 0.039 ppbv
RT: 16.487 min Scan# 4318
Delta R.T. -0.000 min
Lab File: VL040594.D
Acq: 7 Aug 2023 11:55

Tgt Ion:146 Resp: 6425
Ion Ratio Lower Upper
146 100
111 140.6 22.8 68.3#
148 0.0 32.6 97.8#





#77

1,2-Dichlorobenzene

Concen: 30.506 ppbv

RT: 17.156 min Scan# 4

Delta R.T. 0.003 min

Lab File: VL040594.D

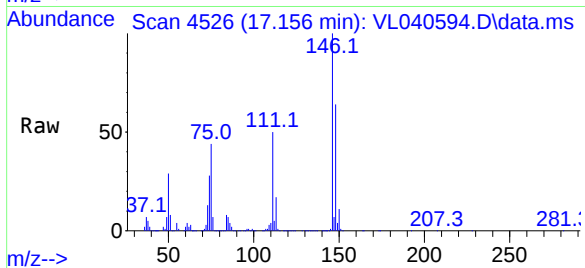
Acq: 7 Aug 2023 11:55

Instrument :

MSVOA_L

ClientSampleId :

E065-1100



Tgt Ion:146 Resp: 4917562

Ion Ratio Lower Upper

146 100

111 50.9 24.3 72.8

148 64.1 32.1 96.3

