

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041760.D
 Acq On : 16 Dec 2024 20:20
 Operator : SY/MD
 Sample : VL1216ABL01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VL1216ABL01

Quant Time: Dec 20 03:22:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.787	49	62878	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.962	114	169102	10.000	ppbv	0.00
55) Chlorobenzene-d5	8.882	117	149246	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.377	95	121763	9.790	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.900%

Target Compounds					Qvalue	
2) Dichlorodifluoromethane	1.499	85	94	0.008	ppbv	92
3) Chlorodifluoromethane	1.476	51	146	0.014	ppbv #	58
4) Chloromethane	1.534	50	108	0.025	ppbv #	42
5) Vinyl Chloride	1.615	62	21	0.005	ppbv #	43
6) Bromomethane	1.674	94	30	0.014	ppbv #	3
7) Chloroethane	1.936	64	13	0.008	ppbv #	40
8) Dichlorotetrafluoroethane	1.499	85	94	0.009	ppbv #	18
10) Heptane	4.988	43	41	0.004	ppbv #	29
11) Trichlorofluoromethane	1.877	101	77	0.006	ppbv #	49
12) 1,1,2-Trichlorotrifluo...	1.877	101	77	0.009	ppbv #	14
17) tert-Butyl alcohol	2.046	59	168	0.014	ppbv #	1
18) 1,1-Dichloroethene	1.942	96	26	0.007	ppbv #	1
21) Allyl Chloride	2.101	41	88	0.013	ppbv #	16
22) trans-1,2-Dichloroethene	2.369	96	76	0.018	ppbv #	1
24) 1,1-Dichloroethane	2.405	63	29	0.003	ppbv #	88
25) Ethyl Acetate	2.829	43	51	0.002	ppbv #	75
26) Hexane	2.829	57	22	0.003	ppbv #	1
28) Methyl tert-Butyl Ether	2.722	73	29	0.004	ppbv #	1
29) Chloroform	2.848	83	195	0.015	ppbv #	18
31) cis-1,2-Dichloroethene	2.337	61	32	0.004	ppbv #	26
34) 2-Butanone	2.560	43	142	0.010	ppbv #	55
36) Benzene	3.658	78	66	0.004	ppbv #	54
37) 1,2-Dichloroethane	2.777	62	21	0.002	ppbv #	1
40) 1,4-Dioxane	4.765	88	21	0.007	ppbv #	1
41) Tetrahydrofuran	3.075	42	193	0.025	ppbv #	52
42) Bromodichloromethane	4.787	83	25	0.002	ppbv #	27
44) 2,2,4-Trimethylpentane	4.648	57	20	0.001	ppbv #	39
45) t-1,3-Dichloropropene	6.545	75	27	0.004	ppbv #	42
47) 1,1,2-Trichloroethane	6.554	97	26	0.004	ppbv #	12
48) Dibromochloromethane	7.833	129	24	0.003	ppbv	63
50) 4-Methyl-2-Pentanone	5.778	43	25	0.001	ppbv #	41
51) 2-Hexanone	7.451	43	33	0.002	ppbv #	31
53) Toluene	6.940	91	93	0.005	ppbv	87
56) 1,1,1,2-Tetrachloroethane	8.561	131	22	0.003	ppbv #	9
58) Ethyl Benzene	9.364	91	25	0.001	ppbv #	45
59) m/p-Xylene	9.555	91	26	0.001	ppbv #	100
60) o-Xylene	9.976	91	33	0.002	ppbv #	33
62) Isopropylbenzene	10.387	105	45	0.001	ppbv #	50
63) 1,1,2,2-Tetrachloroethane	9.933	83	38	0.003	ppbv #	17
64) n-propylbenzene	11.099	120	32	0.004	ppbv #	1
65) tert-Butylbenzene	11.419	119	23	0.001	ppbv #	38
66) Benzyl Chloride	11.532	91	33	0.013	ppbv #	66
67) sec-Butylbenzene	11.775	105	101	0.002	ppbv #	1

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
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 ALS Vial : 1 Sample Multiplier: 1

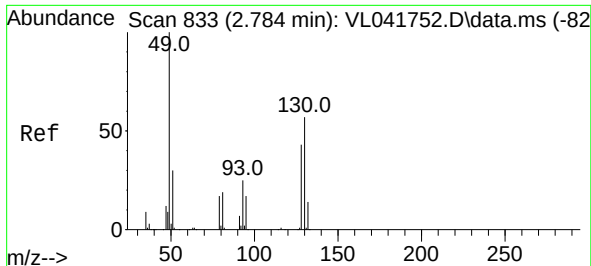
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1216ABL01

Quant Time: Dec 20 03:22:25 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 19 07:32:09 2024
 Response via : Initial Calibration

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

69) p-Isopropyltoluene	11.930	119	36	0.001	ppbv #	47
70) n-Butylbenzene	12.290	91	53	0.002	ppbv #	46
71) 2-Chlorotoluene	10.985	91	59	0.002	ppbv	97
72) 4-Ethyltoluene	11.345	105	24	0.001	ppbv #	55
73) 1,3,5-Trimethylbenzene	11.345	105	24	0.001	ppbv #	30
74) 1,2,4-Trimethylbenzene	11.542	105	199	0.009	ppbv #	25
75) 1,3-Dichlorobenzene	11.772	146	26	0.002	ppbv #	1
76) 1,4-Dichlorobenzene	11.772	146	26	0.002	ppbv #	1
77) 1,2-Dichlorobenzene	11.947	146	27	0.002	ppbv #	23
79) Naphthalene	13.516	128	153	0.010	ppbv #	69
81) 1,2,4-Trichlorobenzene	13.448	180	113	0.013	ppbv #	5

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 2.787 min Scan# 833

Delta R.T. 0.003 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

Instrument :

MSVOA_L

ClientSampleId :

VL1216ABL01

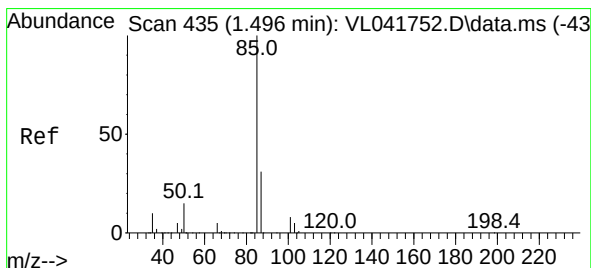
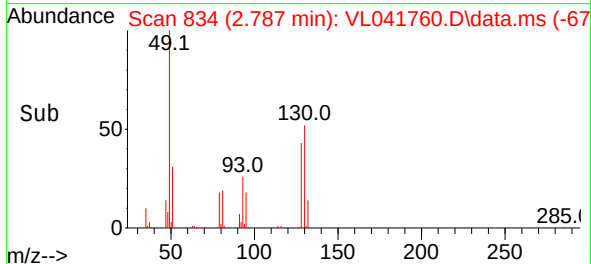
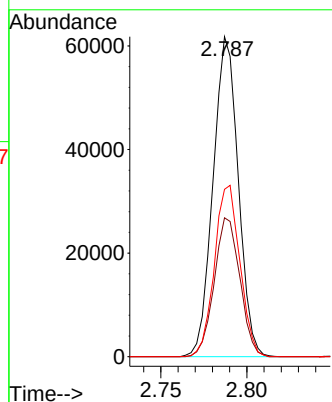
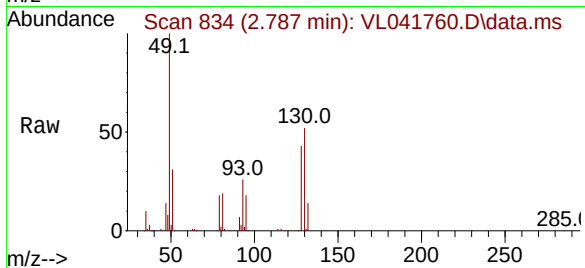
Tgt Ion: 49 Resp: 62878

Ion Ratio Lower Upper

49 100

128 44.3 21.6 64.6

130 54.1 28.3 85.0



#2

Dichlorodifluoromethane

Concen: 0.008 ppbv

RT: 1.499 min Scan# 436

Delta R.T. 0.003 min

Lab File: VL041760.D

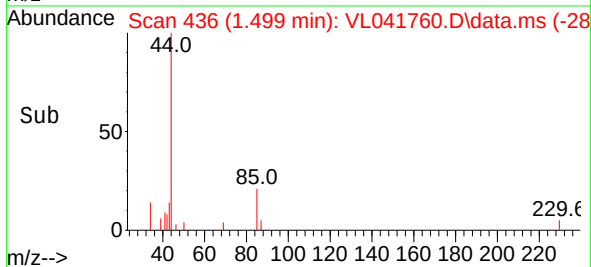
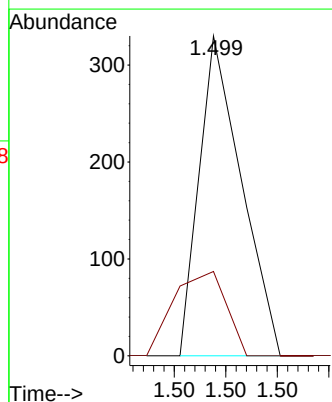
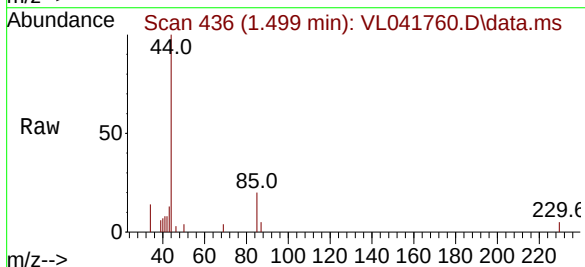
Acq: 16 Dec 2024 20:20

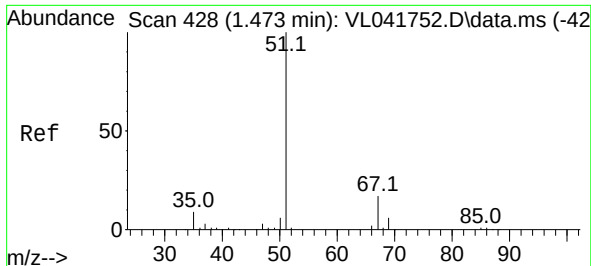
Tgt Ion: 85 Resp: 94

Ion Ratio Lower Upper

85 100

87 26.4 24.5 36.7

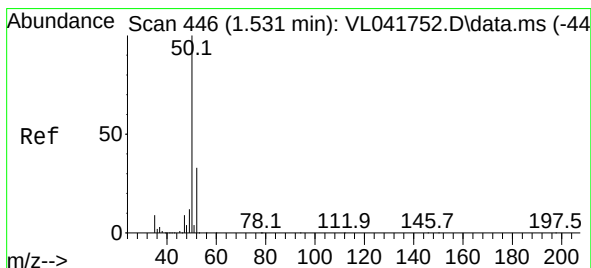
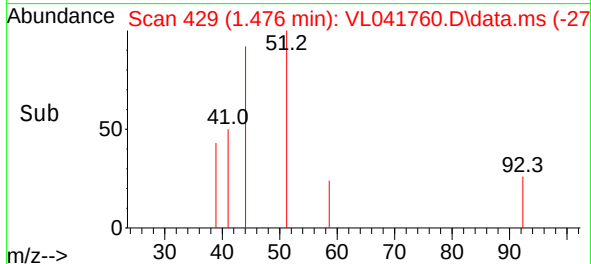
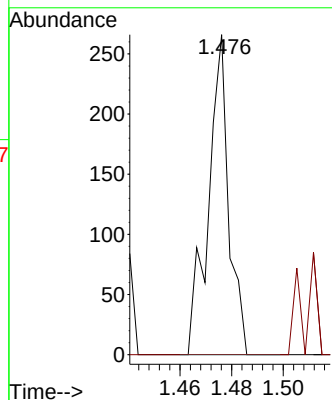
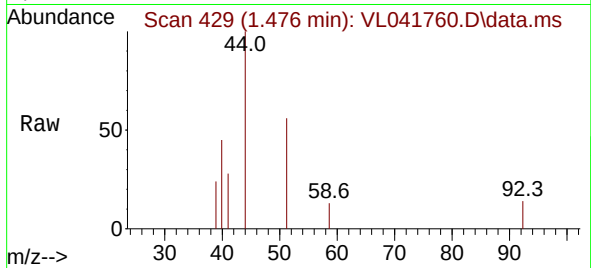




#3
Chlorodifluoromethane
Concen: 0.014 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL041760.D
Acq: 16 Dec 2024 20:20

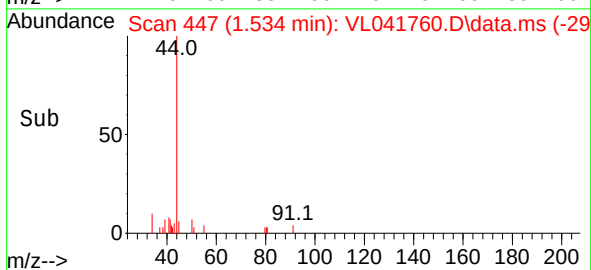
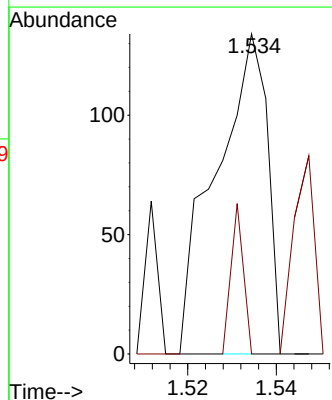
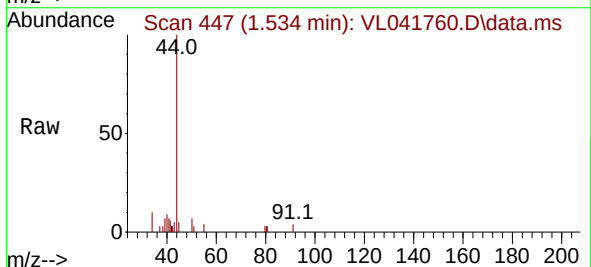
Instrument :
MSVOA_1
ClientSampleId :
VL1216ABL01

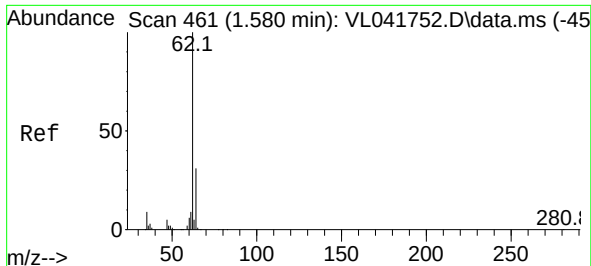
Tgt Ion: 51 Resp: 146
Ion Ratio Lower Upper
51 100
67 0.0 15.0 22.4#



#4
Chloromethane
Concen: 0.025 ppbv
RT: 1.534 min Scan# 447
Delta R.T. 0.003 min
Lab File: VL041760.D
Acq: 16 Dec 2024 20:20

Tgt Ion: 50 Resp: 108
Ion Ratio Lower Upper
50 100
52 0.0 26.2 39.2#

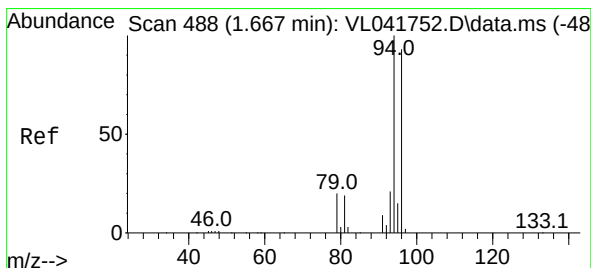
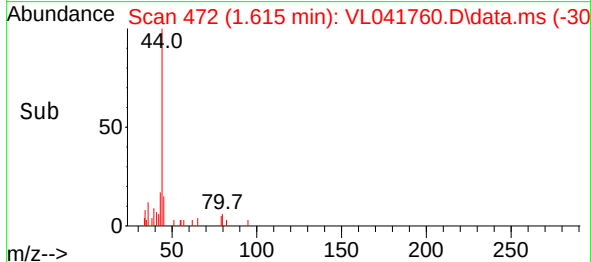
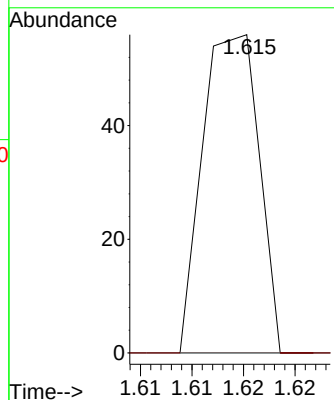
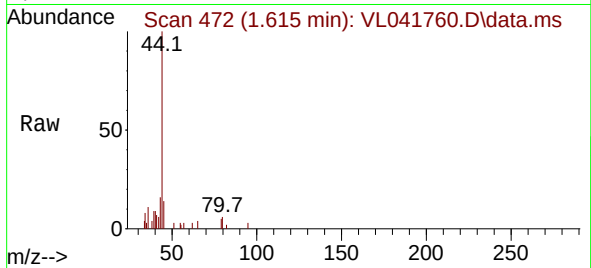




#5
 Vinyl Chloride
 Concen: 0.005 ppbv
 RT: 1.615 min Scan# 41
 Delta R.T. 0.035 min
 Lab File: VL041760.D
 Acq: 16 Dec 2024 20:20

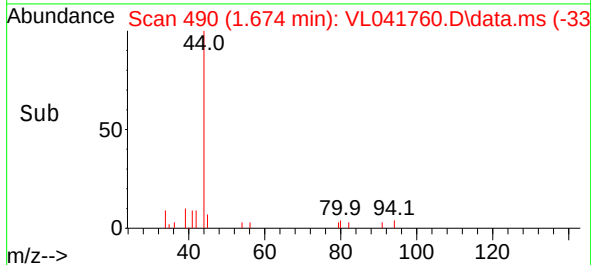
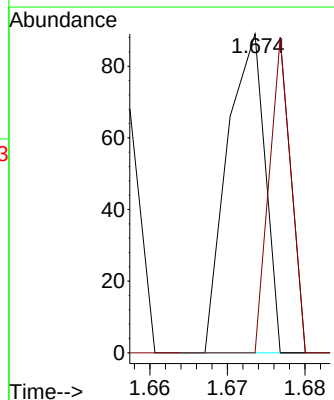
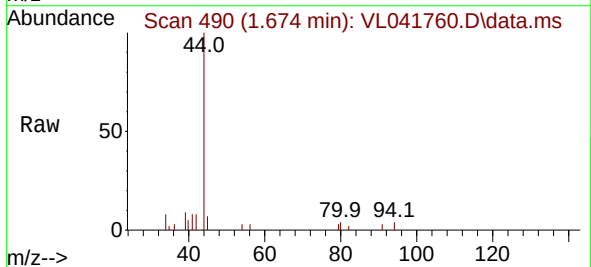
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1216ABL01

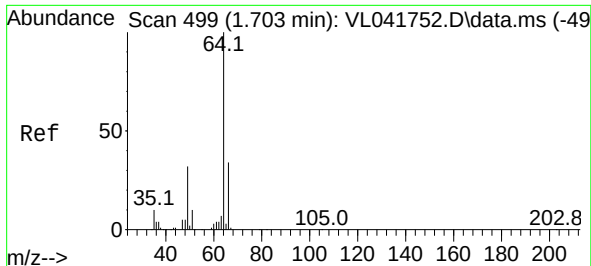
Tgt Ion: 62 Resp: 21
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.1 37.7#



#6
 Bromomethane
 Concen: 0.014 ppbv
 RT: 1.674 min Scan# 490
 Delta R.T. 0.006 min
 Lab File: VL041760.D
 Acq: 16 Dec 2024 20:20

Tgt Ion: 94 Resp: 30
 Ion Ratio Lower Upper
 94 100
 96 0.0 74.7 112.1#

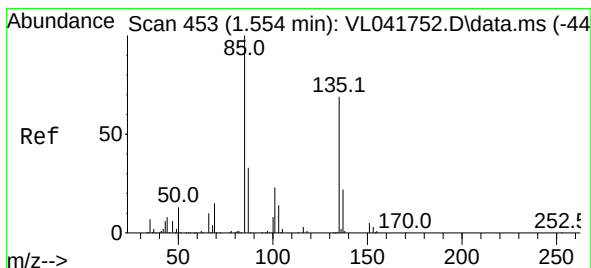
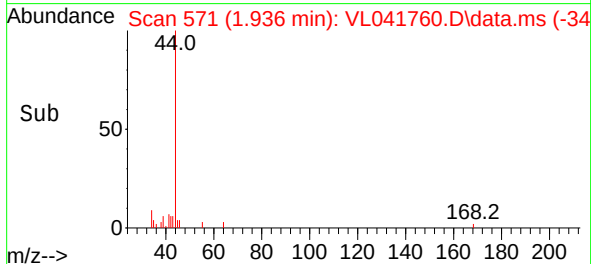
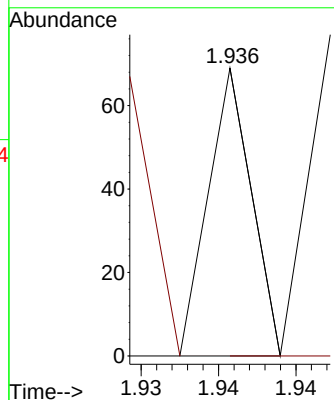
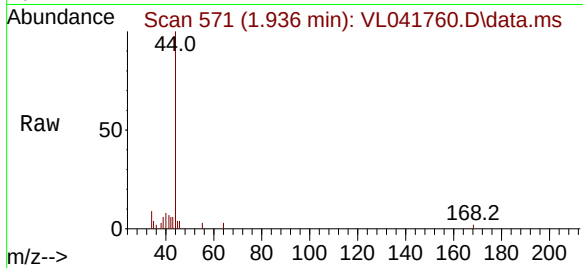




#7
Chloroethane
Concen: 0.008 ppbv
RT: 1.936 min Scan# 51
Delta R.T. 0.233 min
Lab File: VL041760.D
Acq: 16 Dec 2024 20:20

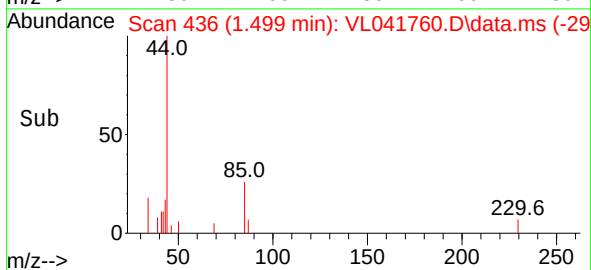
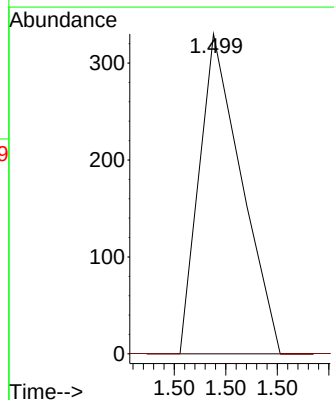
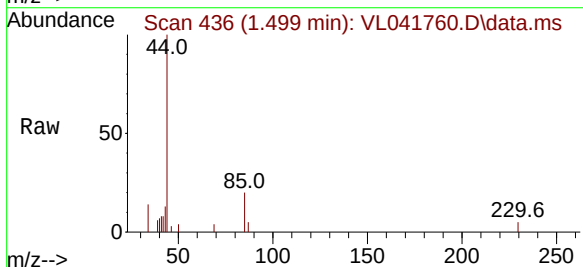
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MSVOA_L
ClientSampleId :
VL1216ABL01

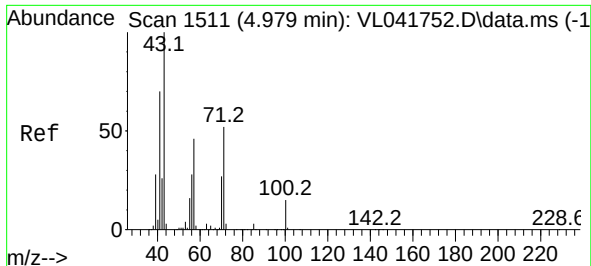
Tgt Ion: 64 Resp: 13
Ion Ratio Lower Upper
64 100
66 0.0 27.5 41.3#



#8
Dichlorotetrafluoroethane
Concen: 0.009 ppbv
RT: 1.499 min Scan# 436
Delta R.T. -0.055 min
Lab File: VL041760.D
Acq: 16 Dec 2024 20:20

Tgt Ion: 85 Resp: 94
Ion Ratio Lower Upper
85 100
135 0.0 51.9 77.9#





#10

Heptane

Concen: 0.004 ppbv

RT: 4.988 min Scan# 11

Delta R.T. 0.009 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

Instrument :

MSVOA_L

ClientSampleId :

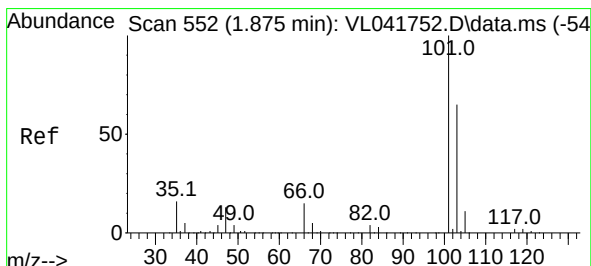
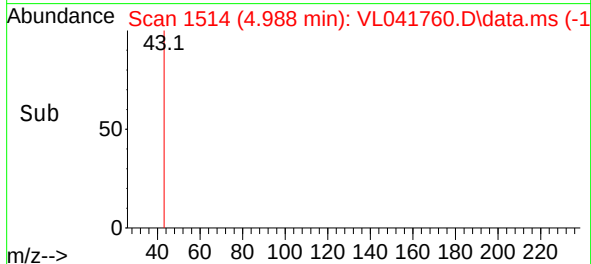
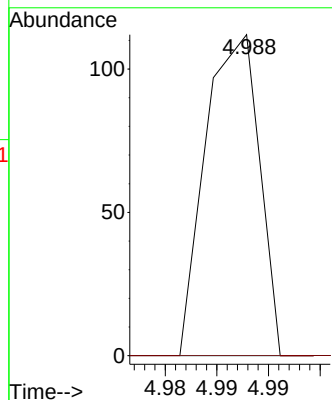
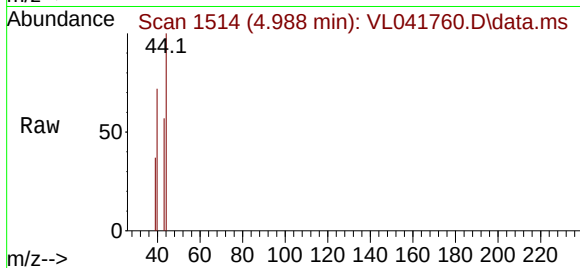
VL1216ABL01

Tgt Ion: 43 Resp: 41

Ion Ratio Lower Upper

43 100

57 0.0 38.5 57.7#



#11

Trichlorofluoromethane

Concen: 0.006 ppbv

RT: 1.877 min Scan# 553

Delta R.T. 0.003 min

Lab File: VL041760.D

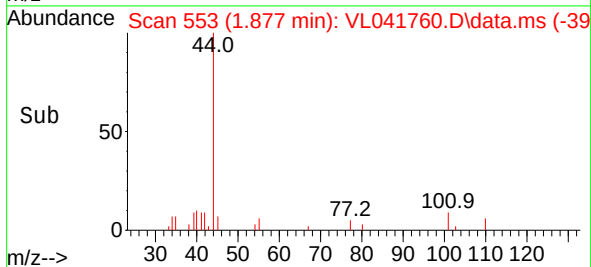
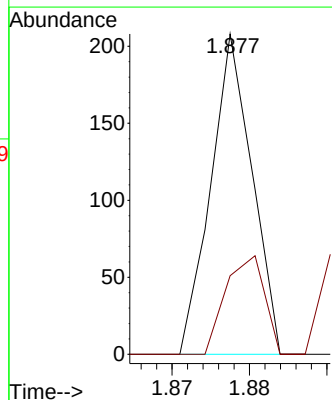
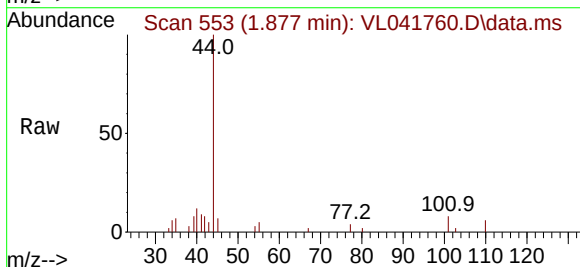
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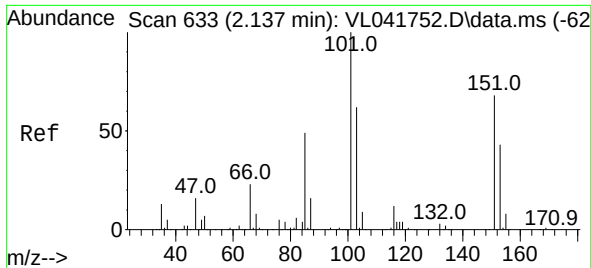
Tgt Ion: 101 Resp: 77

Ion Ratio Lower Upper

101 100

103 24.5 51.8 77.8#

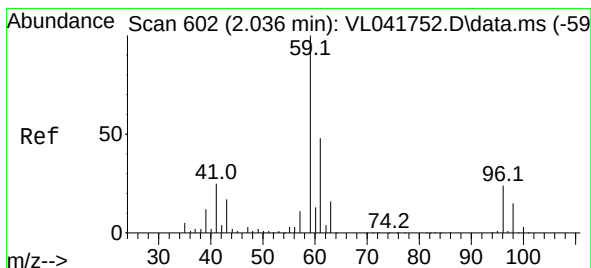
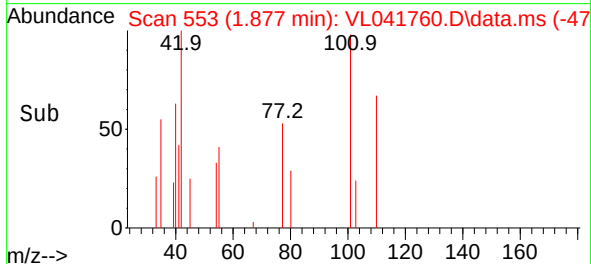
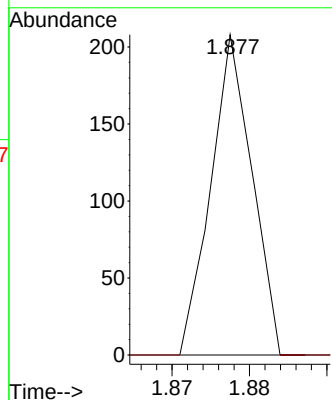
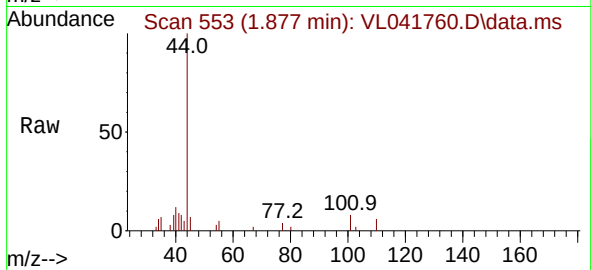




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.009 ppbv
RT: 1.877 min Scan# 51
Delta R.T. -0.259 min
Lab File: VL041760.D
Acq: 16 Dec 2024 20:20

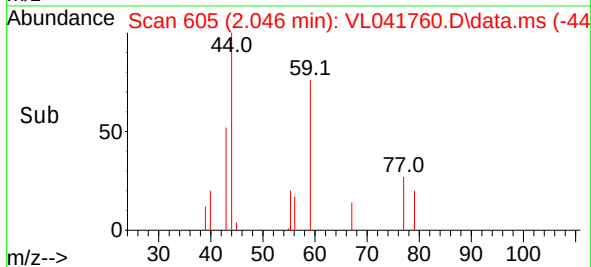
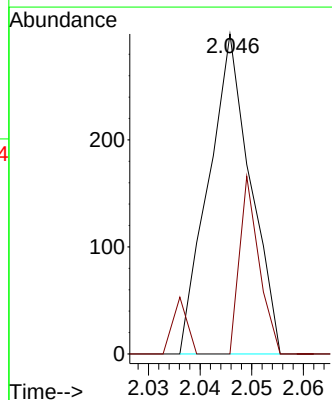
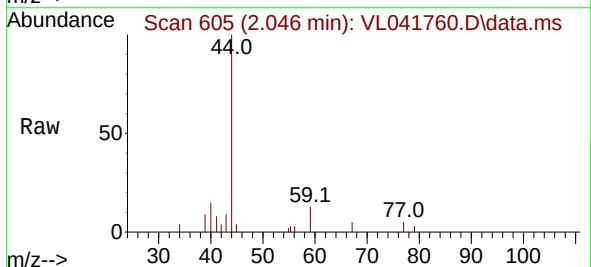
Instrument :
MSVOA_1
ClientSampleId :
VL1216ABL01

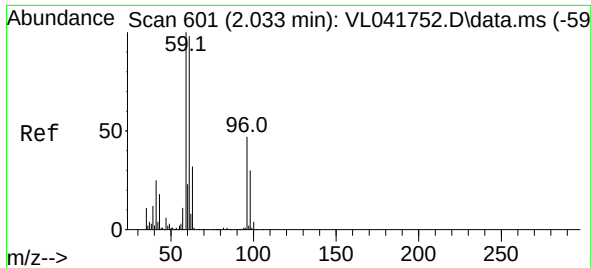
Tgt Ion:101 Resp: 77
Ion Ratio Lower Upper
101 100
151 0.0 56.8 85.2#



#17
tert-Butyl alcohol
Concen: 0.014 ppbv
RT: 2.046 min Scan# 605
Delta R.T. 0.009 min
Lab File: VL041760.D
Acq: 16 Dec 2024 20:20

Tgt Ion: 59 Resp: 168
Ion Ratio Lower Upper
59 100
57 51.2 8.6 13.0#





#18

1,1-Dichloroethene

Concen: 0.007 ppbv

RT: 1.942 min Scan# 51

Delta R.T. -0.091 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

Instrument :

MSVOA_L

ClientSampleId :

VL1216ABL01

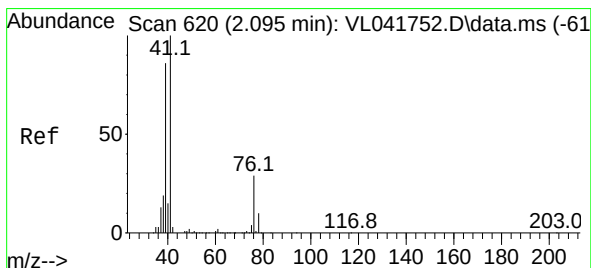
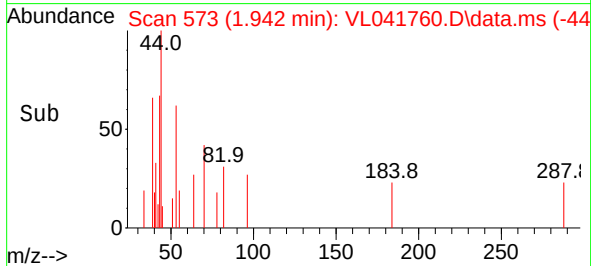
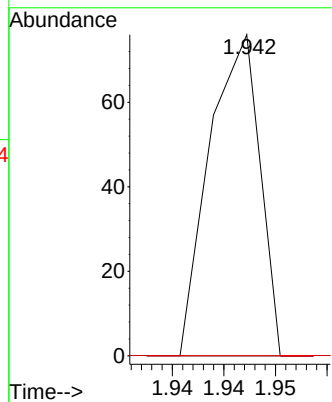
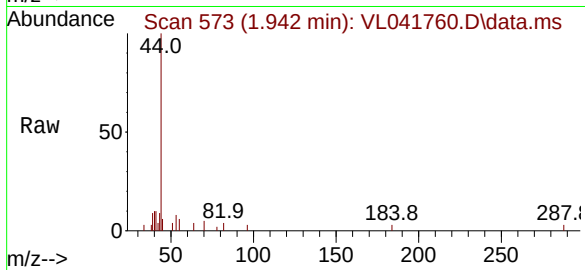
Tgt Ion: 96 Resp: 26

Ion Ratio Lower Upper

96 100

61 0.0 167.7 251.5#

98 0.0 51.1 76.7#



#21

Allyl Chloride

Concen: 0.013 ppbv

RT: 2.101 min Scan# 622

Delta R.T. 0.006 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

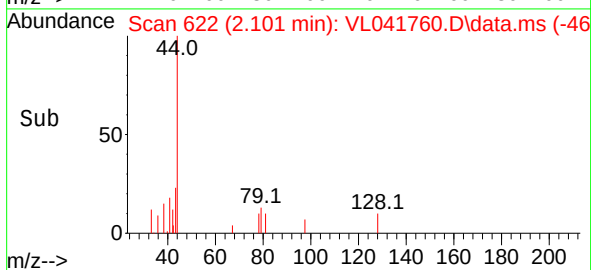
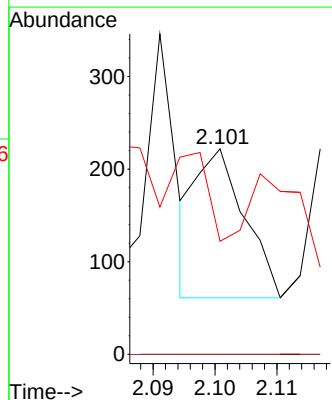
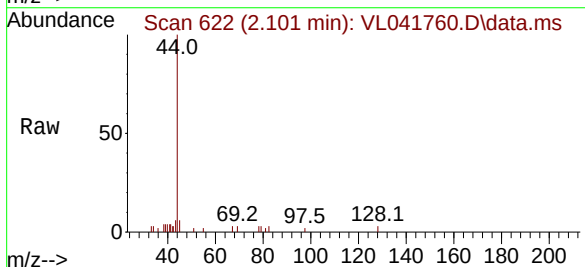
Tgt Ion: 41 Resp: 88

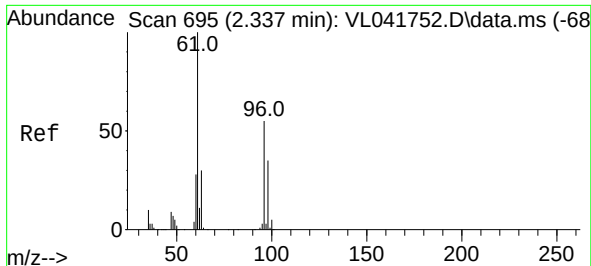
Ion Ratio Lower Upper

41 100

76 0.0 22.3 33.5#

39 0.0 69.2 103.8#

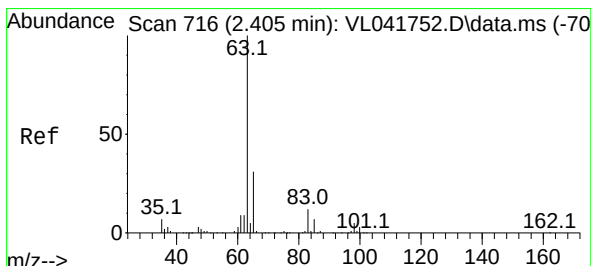
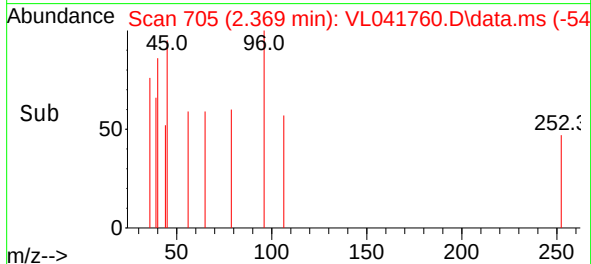
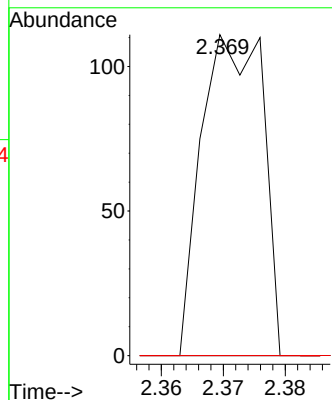
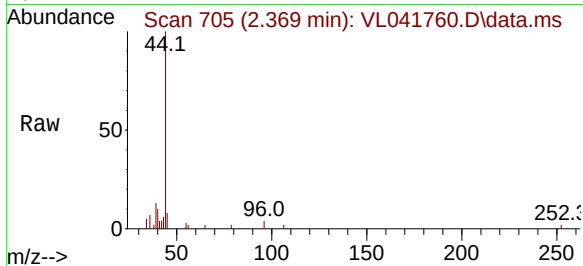




#22
trans-1,2-Dichloroethene
Concen: 0.018 ppbv
RT: 2.369 min Scan# 705
Delta R.T. 0.032 min
Lab File: VL041760.D
Acq: 16 Dec 2024 20:20

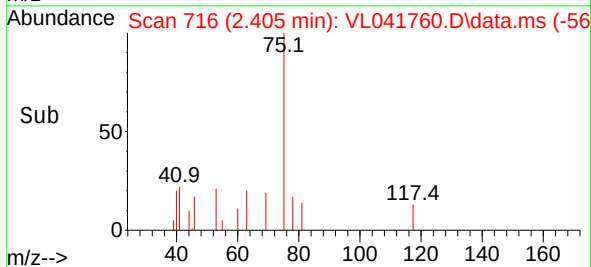
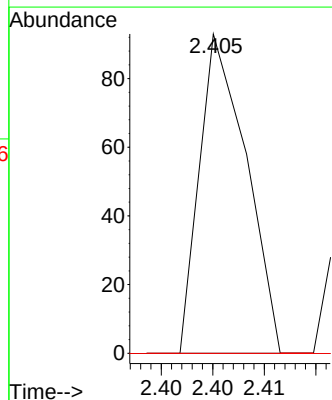
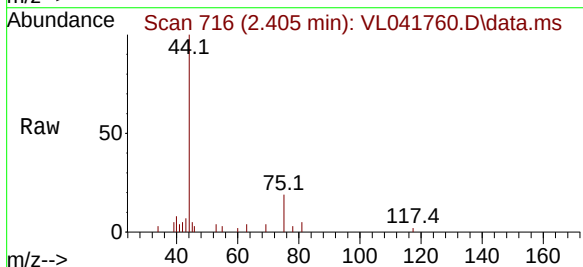
Instrument :
MSVOA_1
ClientSampleId :
VL1216ABL01

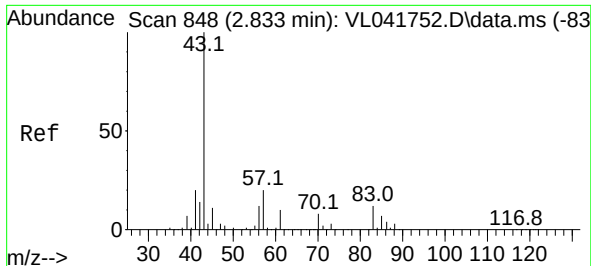
Tgt Ion: 96 Resp: 76
Ion Ratio Lower Upper
96 100
61 0.0 146.3 219.5#
98 0.0 50.8 76.2#



#24
1,1-Dichloroethane
Concen: 0.003 ppbv
RT: 2.405 min Scan# 716
Delta R.T. -0.000 min
Lab File: VL041760.D
Acq: 16 Dec 2024 20:20

Tgt Ion: 63 Resp: 29
Ion Ratio Lower Upper
63 100
98 0.0 2.3 6.8#
100 0.0 1.4 4.2#





#25

Ethyl Acetate

Concen: 0.002 ppbv

RT: 2.829 min Scan# 847

Delta R.T. -0.004 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

Instrument :

MSVOA_L

ClientSampleId :

VL1216ABL01

Tgt Ion: 43 Resp: 51

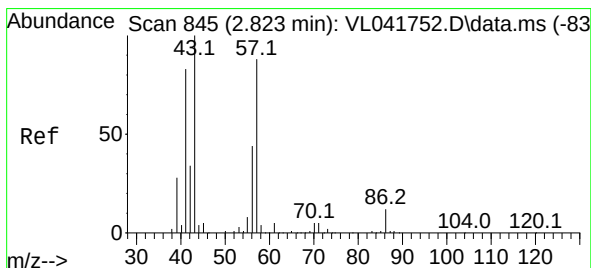
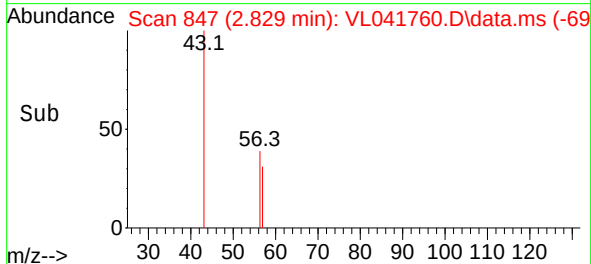
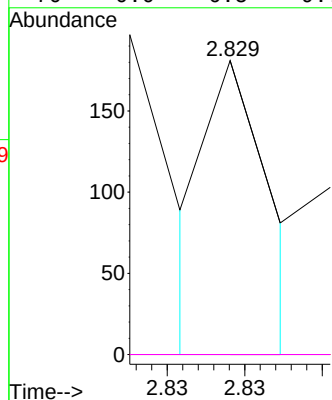
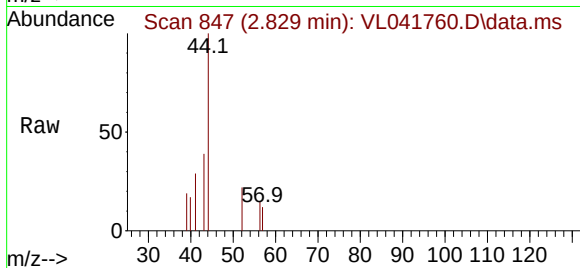
Ion Ratio Lower Upper

43 100

45 0.0 8.1 12.1#

61 0.0 7.0 10.6#

70 0.0 6.5 9.7#



#26

Hexane

Concen: 0.003 ppbv

RT: 2.829 min Scan# 847

Delta R.T. 0.006 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

Tgt Ion: 57 Resp: 22

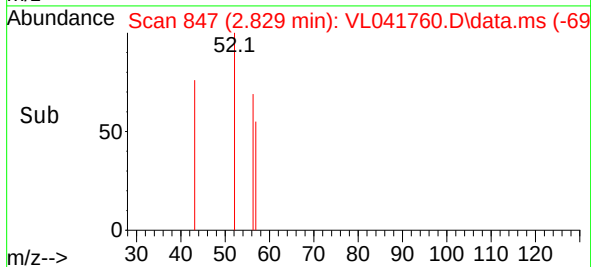
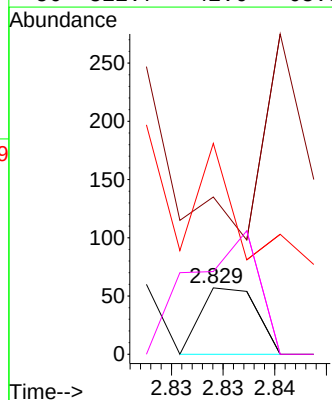
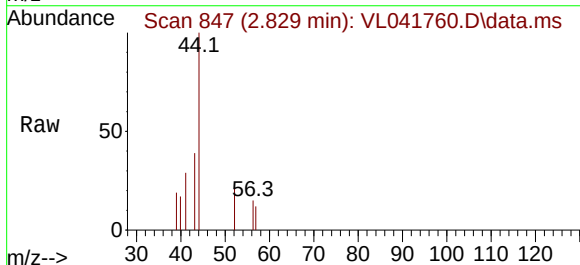
Ion Ratio Lower Upper

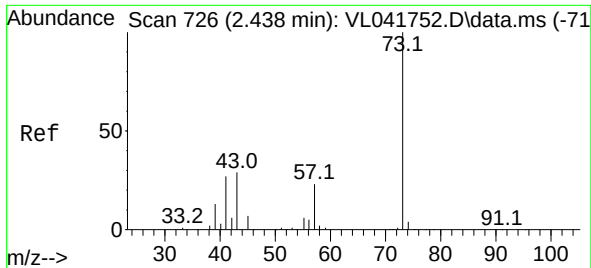
57 100

41 1436.4 79.6 119.4#

43 0.0 211.0 316.6#

56 322.7 42.6 63.8#

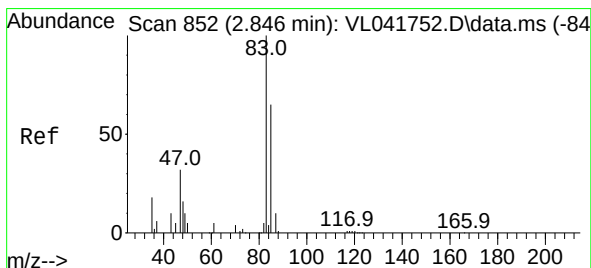
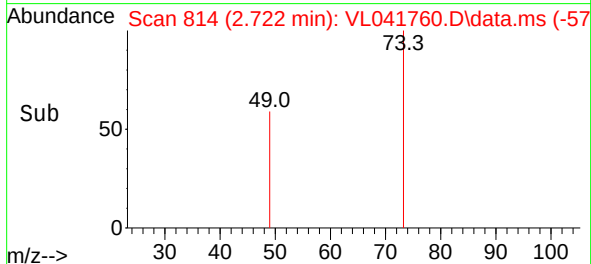
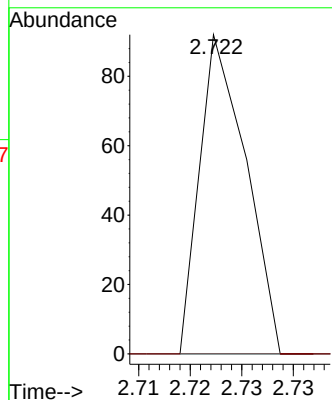
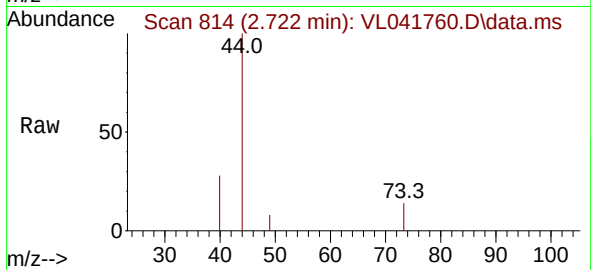




#28
Methyl tert-Butyl Ether
Concen: 0.004 ppbv
RT: 2.722 min Scan# 814
Delta R.T. 0.285 min
Lab File: VL041760.D
Acq: 16 Dec 2024 20:20

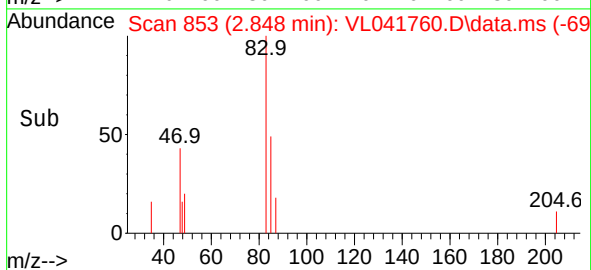
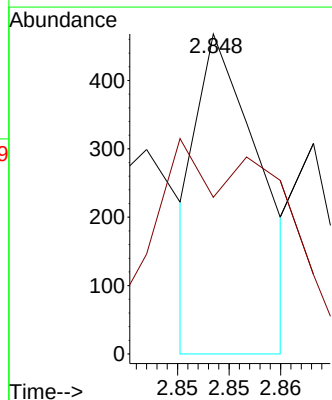
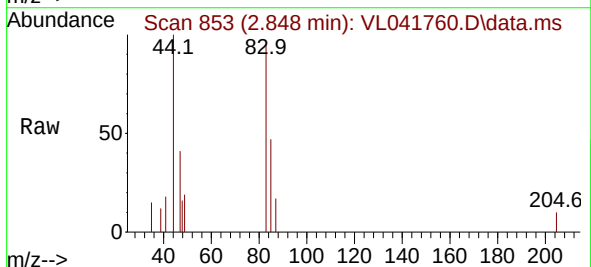
Instrument :
MSVOA_L
ClientSampleId :
VL1216ABL01

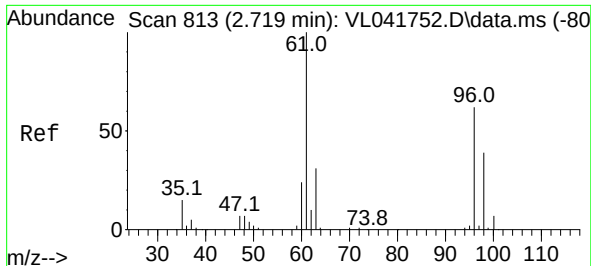
Tgt Ion: 73 Resp: 29
Ion Ratio Lower Upper
73 100
57 162.1 17.6 26.4#



#29
Chloroform
Concen: 0.015 ppbv
RT: 2.848 min Scan# 853
Delta R.T. 0.003 min
Lab File: VL041760.D
Acq: 16 Dec 2024 20:20

Tgt Ion: 83 Resp: 195
Ion Ratio Lower Upper
83 100
85 0.0 51.8 77.6#





#31

cis-1,2-Dichloroethene

Concen: 0.004 ppbv

RT: 2.337 min Scan# 61

Delta R.T. -0.382 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

Instrument :

MSVOA_1

ClientSampleId :

VL1216ABL01

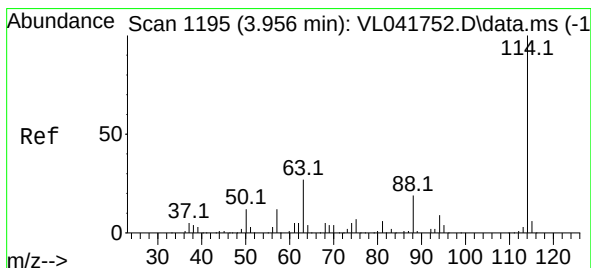
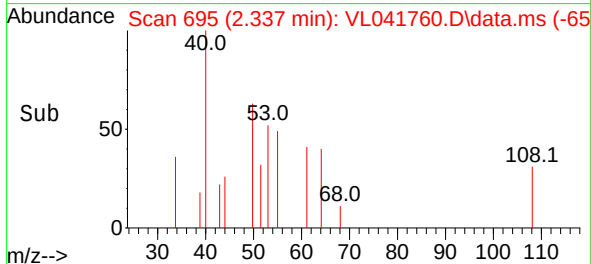
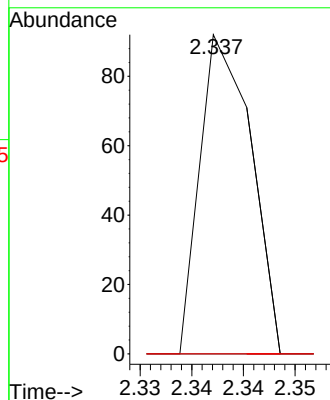
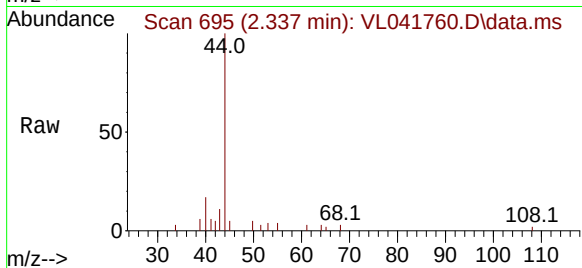
Tgt Ion: 61 Resp: 32

Ion Ratio Lower Upper

61 100

96 0.0 49.7 74.5#

98 0.0 30.8 46.2#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. 0.006 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

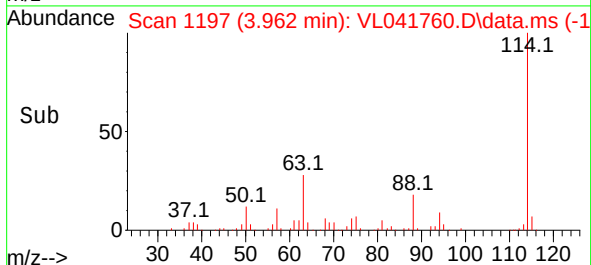
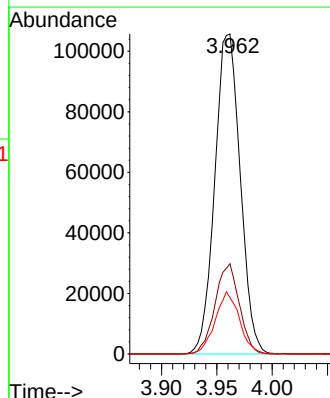
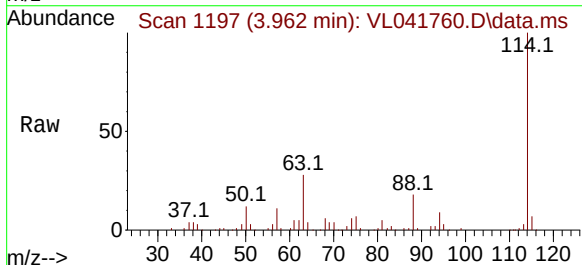
Tgt Ion: 114 Resp: 169102

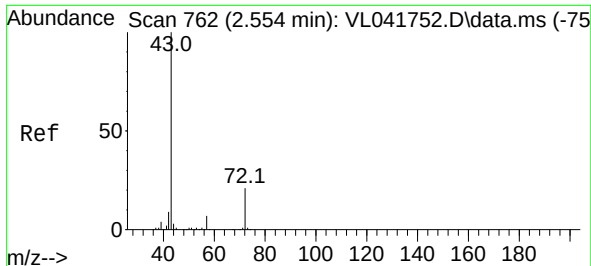
Ion Ratio Lower Upper

114 100

63 27.0 21.8 32.8

88 18.4 14.8 22.2





#34

2-Butanone

Concen: 0.010 ppbv

RT: 2.560 min Scan# 7

Delta R.T. 0.006 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

Instrument :

MSVOA_1

ClientSampleId :

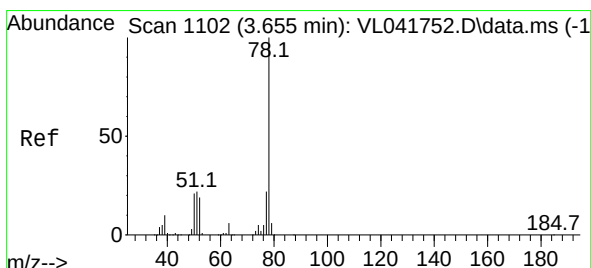
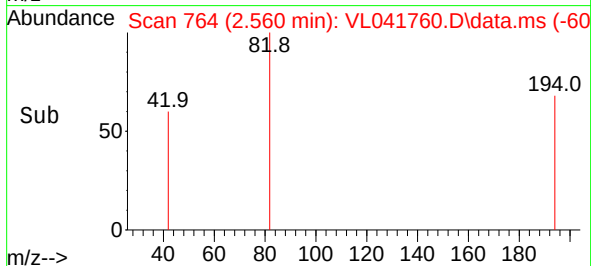
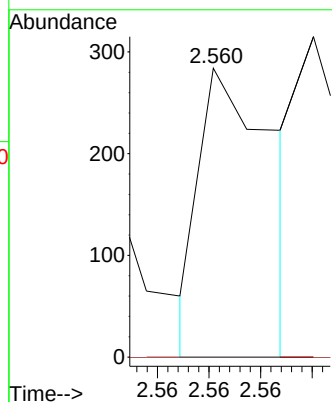
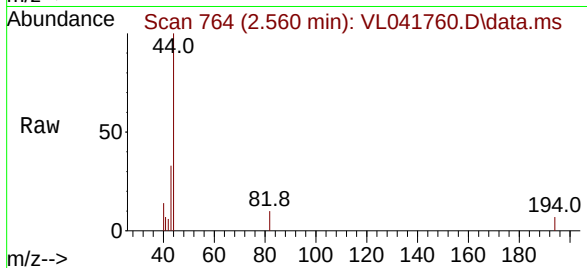
VL1216ABL01

Tgt Ion: 43 Resp: 142

Ion Ratio Lower Upper

43 100

72 0.0 16.8 25.2#



#36

Benzene

Concen: 0.004 ppbv

RT: 3.658 min Scan# 1103

Delta R.T. 0.003 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

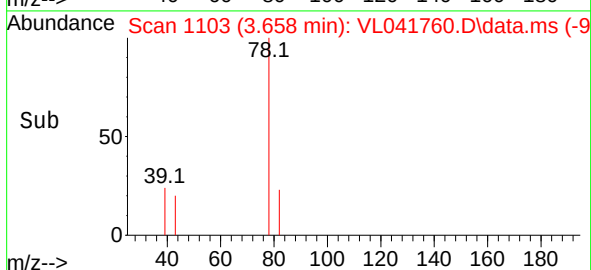
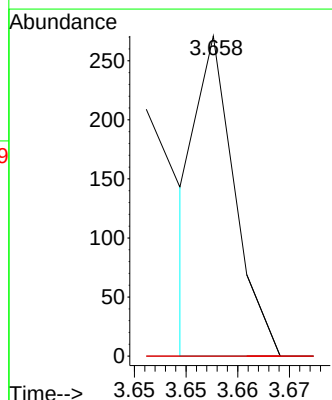
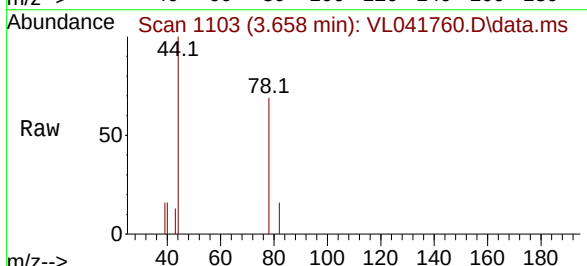
Tgt Ion: 78 Resp: 66

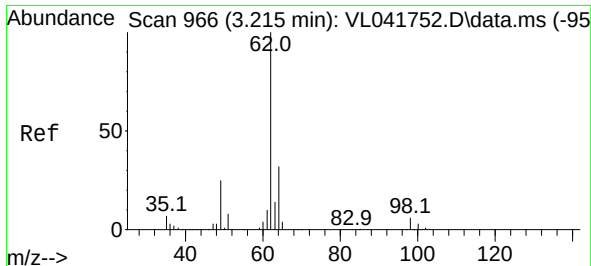
Ion Ratio Lower Upper

78 100

77 0.0 17.8 26.6#

50 0.0 17.2 25.8#

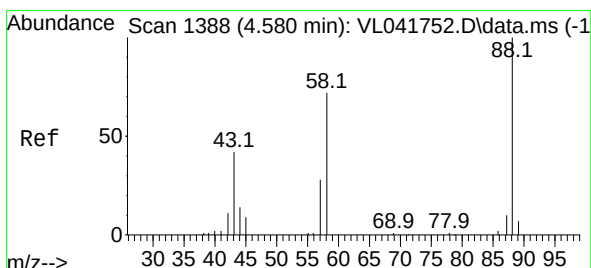
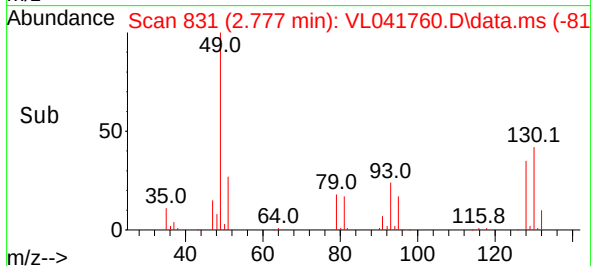
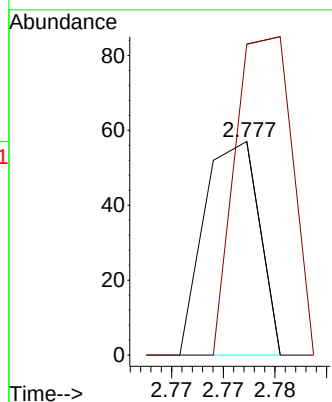
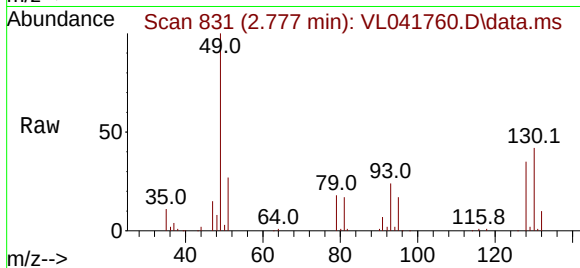




#37
1,2-Dichloroethane
Concen: 0.002 ppbv
RT: 2.777 min Scan# 81
Delta R.T. -0.437 min
Lab File: VL041760.D
Acq: 16 Dec 2024 20:20

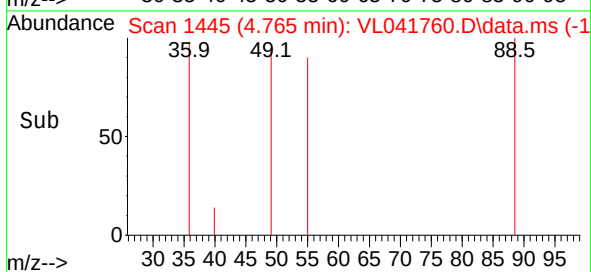
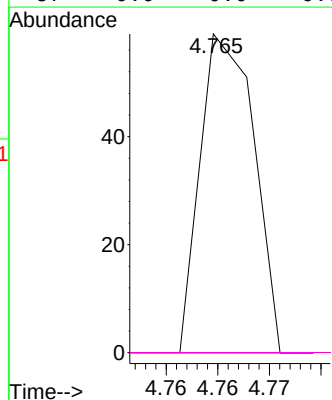
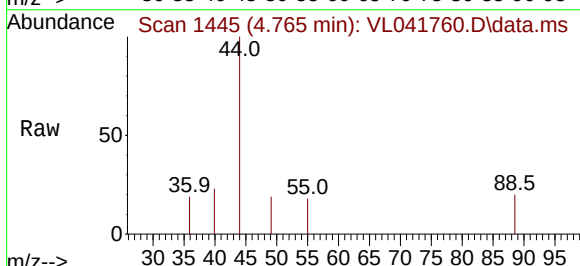
Instrument :
MSVOA_1
ClientSampleId :
VL1216ABL01

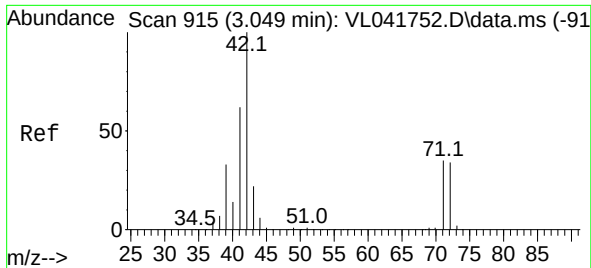
Tgt Ion: 62 Resp: 21
Ion Ratio Lower Upper
62 100
98 157.1 4.7 7.1#



#40
1,4-Dioxane
Concen: 0.007 ppbv
RT: 4.765 min Scan# 1445
Delta R.T. 0.184 min
Lab File: VL041760.D
Acq: 16 Dec 2024 20:20

Tgt Ion: 88 Resp: 21
Ion Ratio Lower Upper
88 100
58 0.0 61.0 91.6#
43 190.5 29.4 44.0#
57 0.0 0.0 0.0





#41

Tetrahydrofuran

Concen: 0.025 ppbv

RT: 3.075 min Scan# 91

Delta R.T. 0.026 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

Instrument :

MSVOA_L

ClientSampleId :

VL1216ABL01

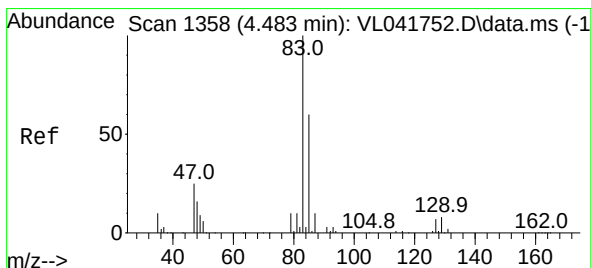
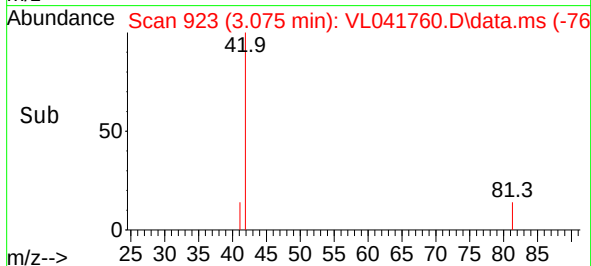
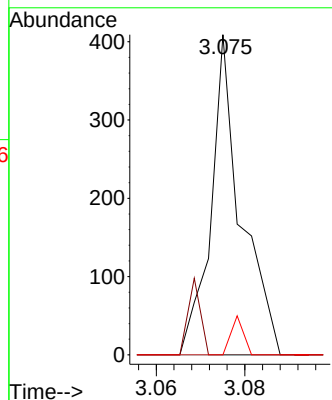
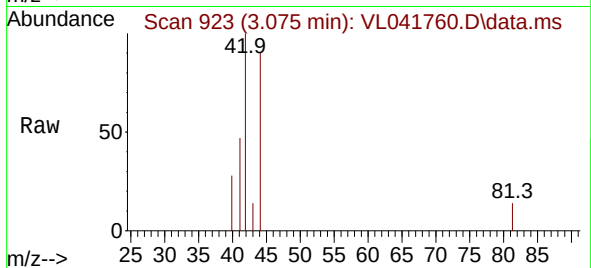
Tgt Ion: 42 Resp: 193

Ion Ratio Lower Upper

42 100

72 9.8 29.1 43.7#

71 5.2 28.4 42.6#



#42

Bromodichloromethane

Concen: 0.002 ppbv

RT: 4.787 min Scan# 1452

Delta R.T. 0.304 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

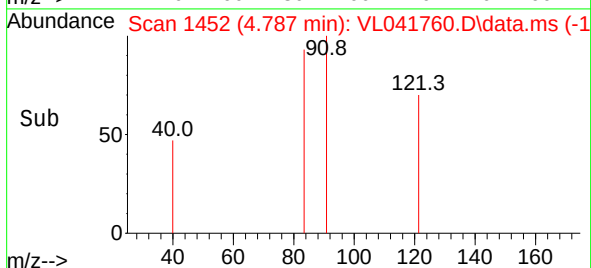
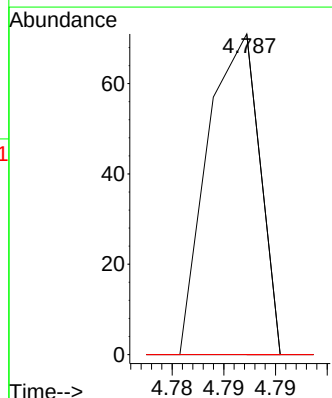
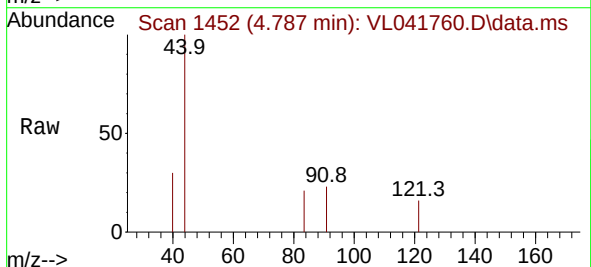
Tgt Ion: 83 Resp: 25

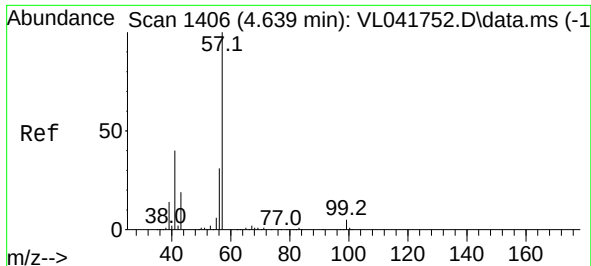
Ion Ratio Lower Upper

83 100

85 0.0 48.0 72.0#

127 0.0 5.8 8.8#





#44

2,2,4-Trimethylpentane

Concen: 0.001 ppbv

RT: 4.648 min Scan# 1406

Delta R.T. 0.009 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

Instrument :

MSVOA_1

ClientSampleId :

VL1216ABL01

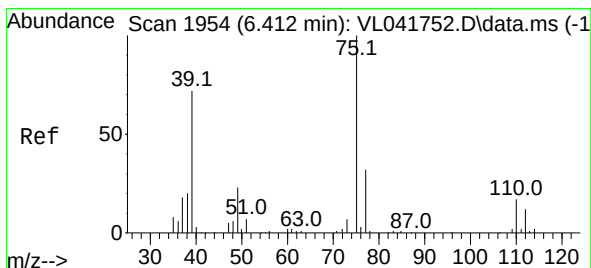
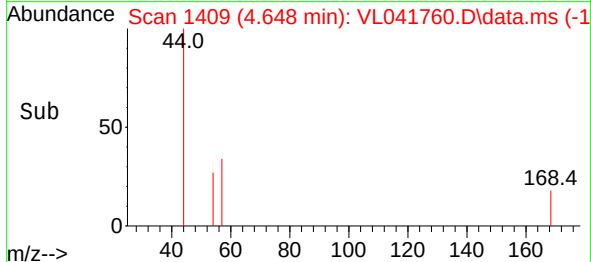
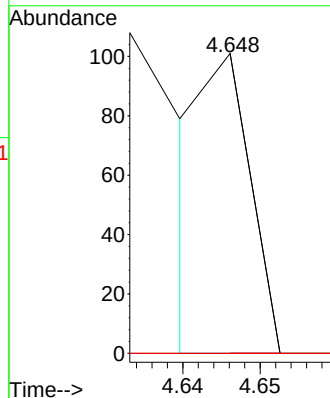
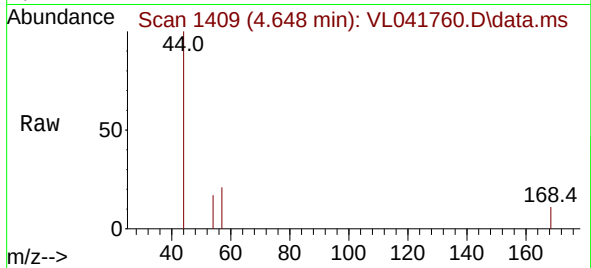
Tgt Ion: 57 Resp: 20

Ion Ratio Lower Upper

57 100

41 0.0 30.7 46.1#

56 0.0 25.4 38.0#



#45

t-1,3-Dichloropropene

Concen: 0.004 ppbv

RT: 6.545 min Scan# 1995

Delta R.T. 0.132 min

Lab File: VL041760.D

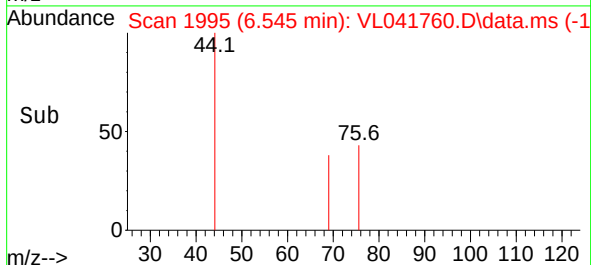
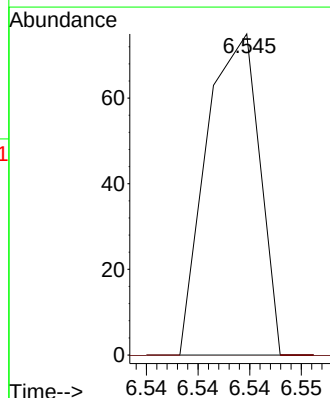
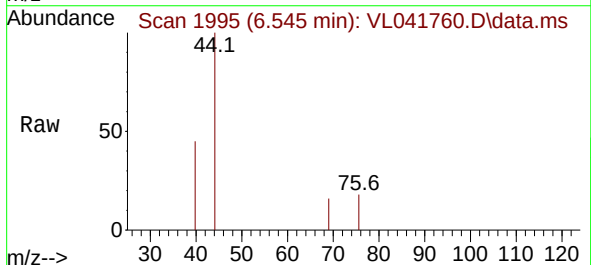
Acq: 16 Dec 2024 20:20

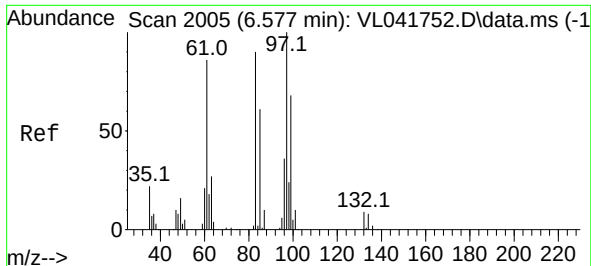
Tgt Ion: 75 Resp: 27

Ion Ratio Lower Upper

75 100

77 0.0 25.9 38.9#





#47

1,1,2-Trichloroethane

Concen: 0.004 ppbv

RT: 6.554 min Scan# 1

Delta R.T. -0.023 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

Instrument :

MSVOA_L

ClientSampleId :

VL1216ABL01

Tgt Ion: 97 Resp: 26

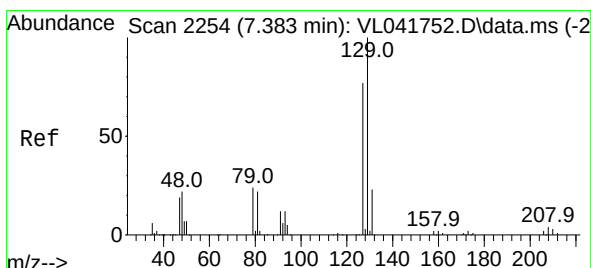
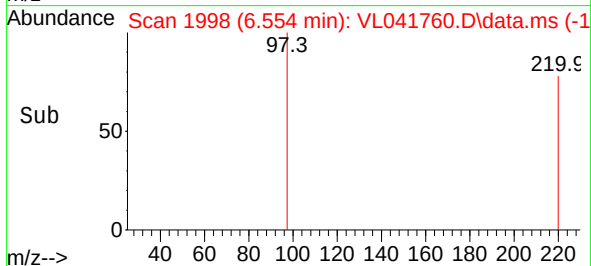
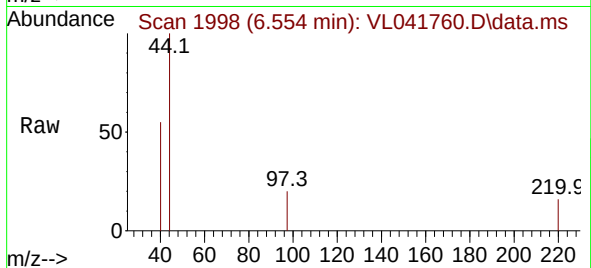
Ion Ratio Lower Upper

97 100

83 0.0 72.3 108.5#

85 0.0 48.5 72.7#

99 0.0 54.0 81.0#



#48

Dibromochloromethane

Concen: 0.003 ppbv

RT: 7.833 min Scan# 2393

Delta R.T. 0.450 min

Lab File: VL041760.D

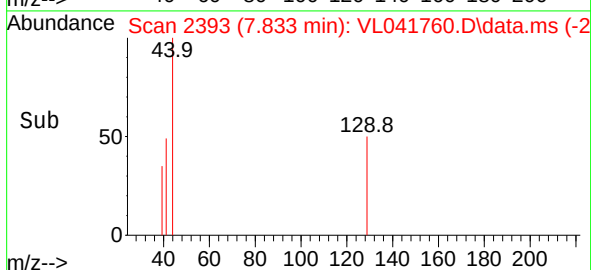
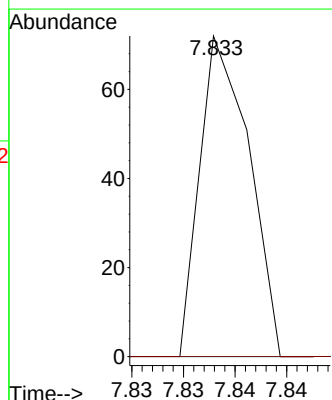
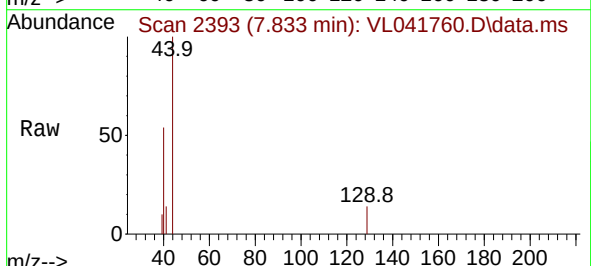
Acq: 16 Dec 2024 20:20

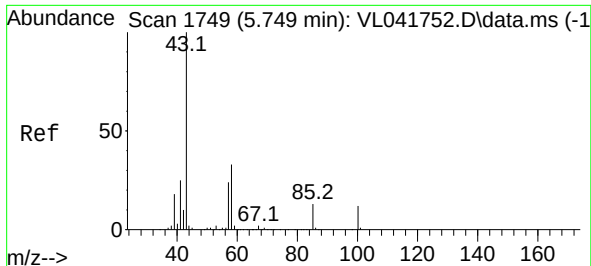
Tgt Ion: 129 Resp: 24

Ion Ratio Lower Upper

129 100

127 45.8 38.8 116.3

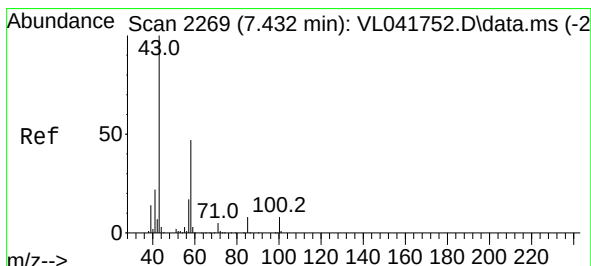
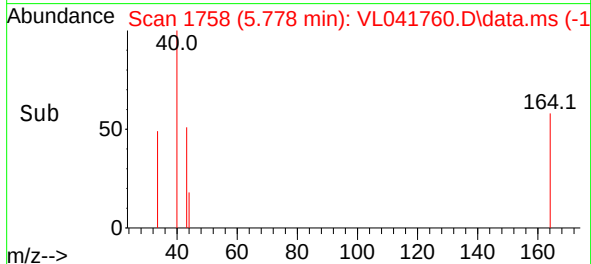
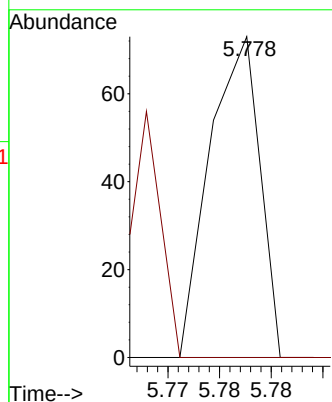
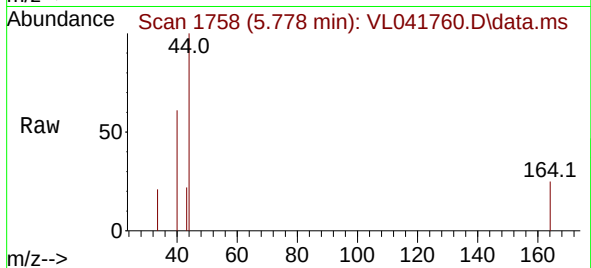




#50
4-Methyl-2-Pentanone
Concen: 0.001 ppbv
RT: 5.778 min Scan# 11
Delta R.T. 0.029 min
Lab File: VL041760.D
Acq: 16 Dec 2024 20:20

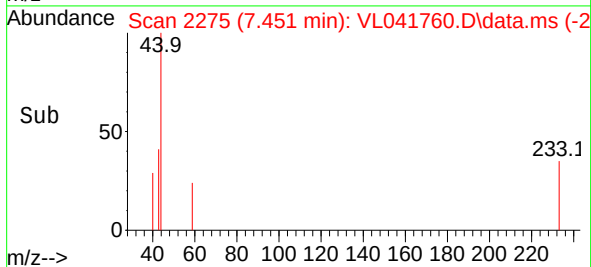
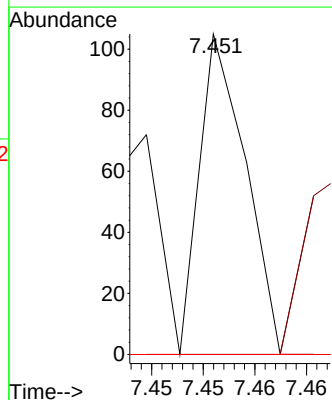
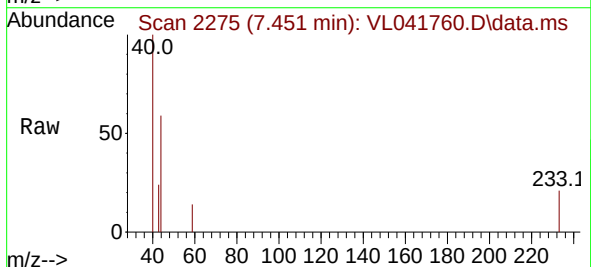
Instrument :
MSVOA_L
ClientSampleId :
VL1216ABL01

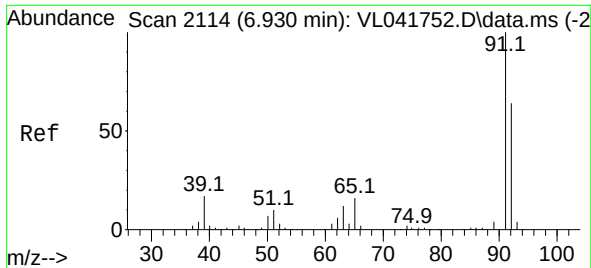
Tgt Ion: 43 Resp: 25
Ion Ratio Lower Upper
43 100
58 0.0 26.8 40.2#



#51
2-Hexanone
Concen: 0.002 ppbv
RT: 7.451 min Scan# 2275
Delta R.T. 0.019 min
Lab File: VL041760.D
Acq: 16 Dec 2024 20:20

Tgt Ion: 43 Resp: 33
Ion Ratio Lower Upper
43 100
58 0.0 36.6 55.0#
98 0.0 0.1 0.1#





#53

Toluene

Concen: 0.005 ppbv

RT: 6.940 min Scan# 2114

Delta R.T. 0.009 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

Instrument :

MSVOA_1

ClientSampleId :

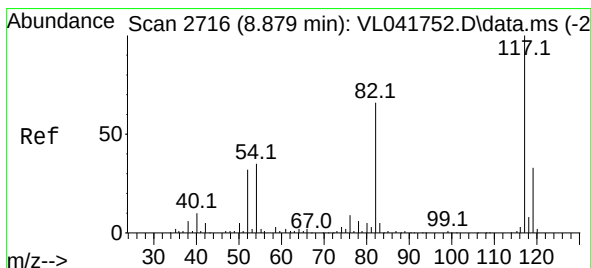
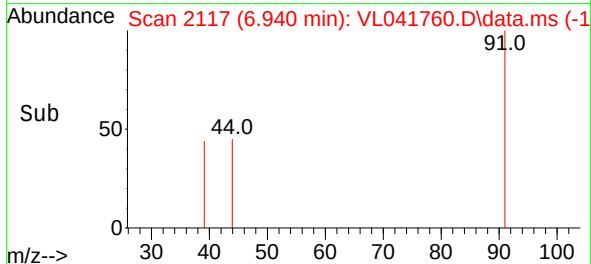
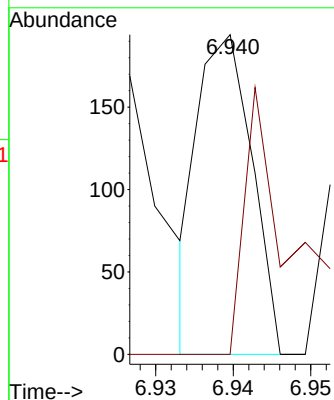
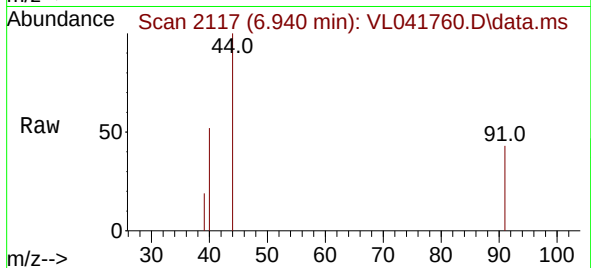
VL1216ABL01

Tgt Ion: 91 Resp: 93

Ion Ratio Lower Upper

91 100

92 69.9 47.9 71.9



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.882 min Scan# 2717

Delta R.T. 0.003 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

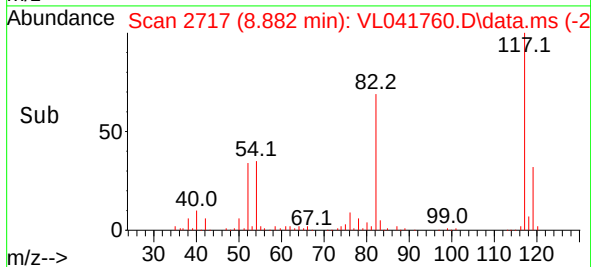
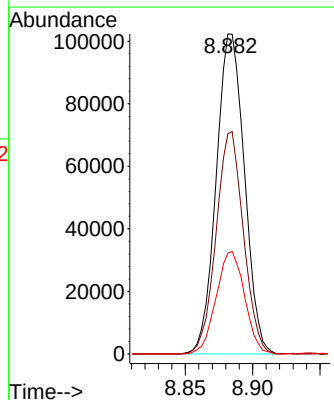
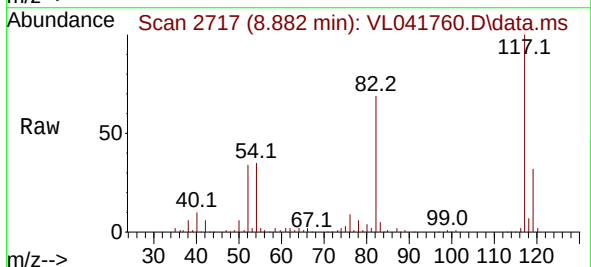
Tgt Ion: 117 Resp: 149246

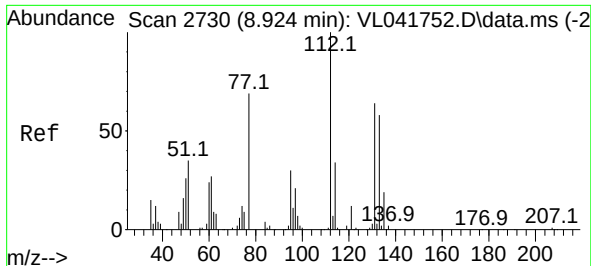
Ion Ratio Lower Upper

117 100

82 67.4 53.8 80.8

119 32.2 26.7 40.1

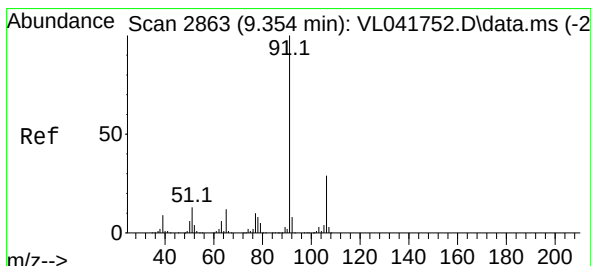
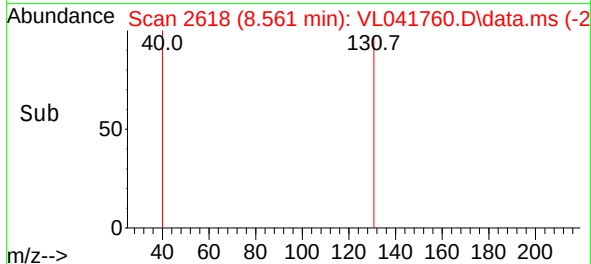
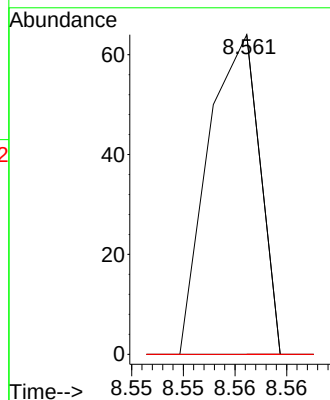
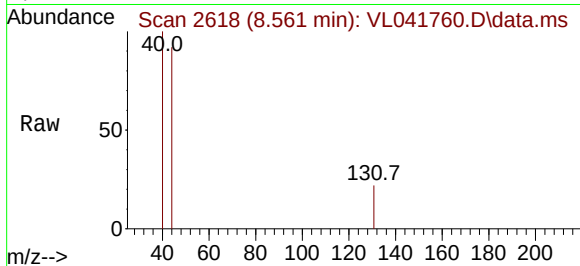




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.003 ppbv
 RT: 8.561 min Scan# 21
 Delta R.T. -0.363 min
 Lab File: VL041760.D
 Acq: 16 Dec 2024 20:20

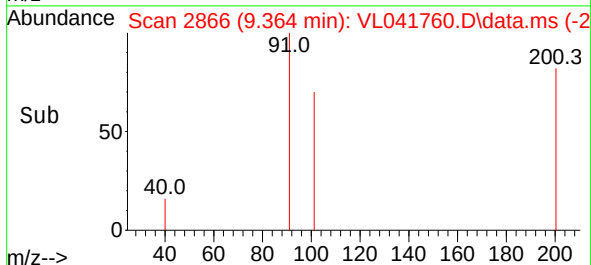
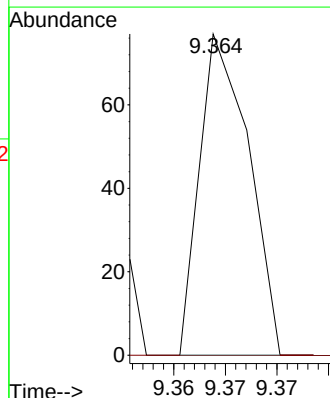
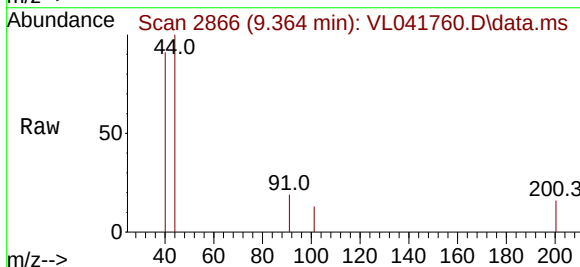
Instrument :
 MSVOA_L
 ClientSampleId :
 VL1216ABL01

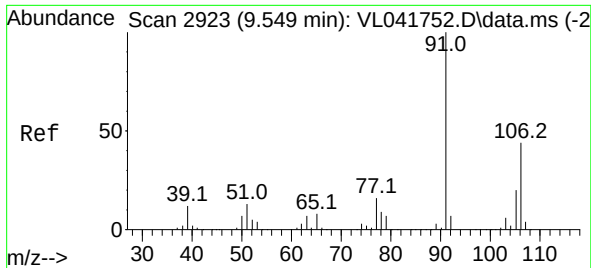
Tgt Ion:131 Resp: 22
 Ion Ratio Lower Upper
 131 100
 133 0.0 76.8 115.2#
 119 0.0 49.0 73.6#



#58
 Ethyl Benzene
 Concen: 0.001 ppbv
 RT: 9.364 min Scan# 2866
 Delta R.T. 0.009 min
 Lab File: VL041760.D
 Acq: 16 Dec 2024 20:20

Tgt Ion: 91 Resp: 25
 Ion Ratio Lower Upper
 91 100
 106 0.0 23.5 35.3#





#59

m/p-Xylene

Concen: 0.001 ppbv

RT: 9.555 min Scan# 20

Delta R.T. 0.006 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

Instrument :

MSVOA_1

ClientSampleId :

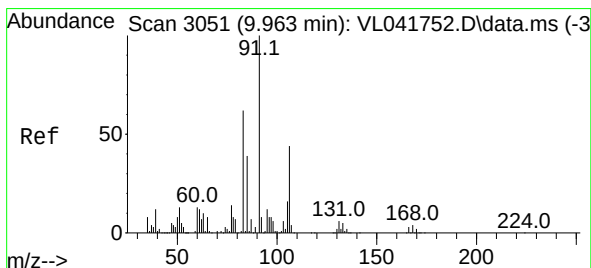
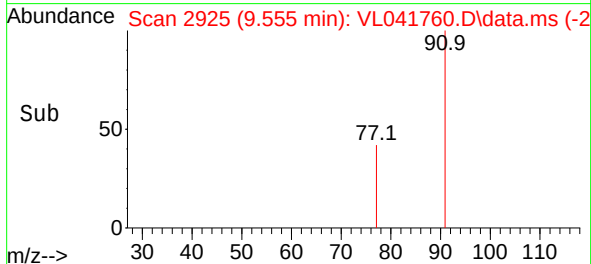
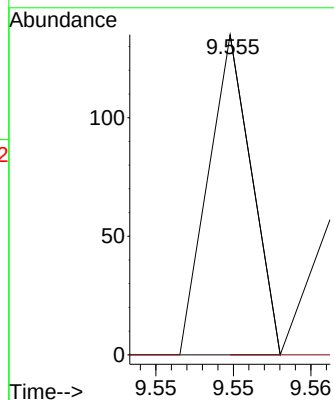
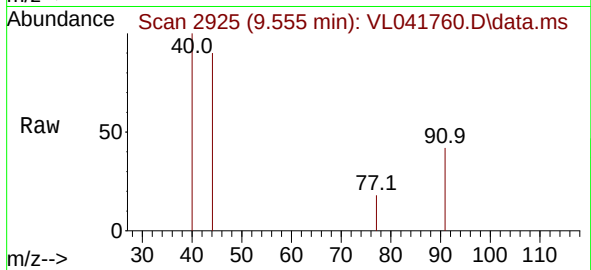
VL1216ABL01

Tgt Ion: 91 Resp: 26

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 0.002 ppbv

RT: 9.976 min Scan# 3055

Delta R.T. 0.013 min

Lab File: VL041760.D

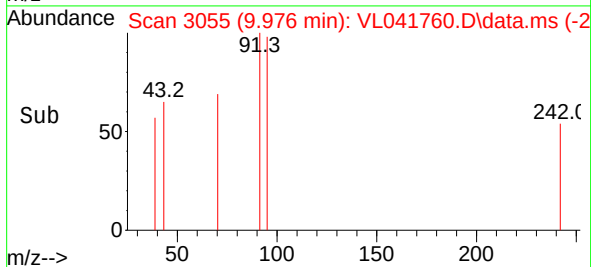
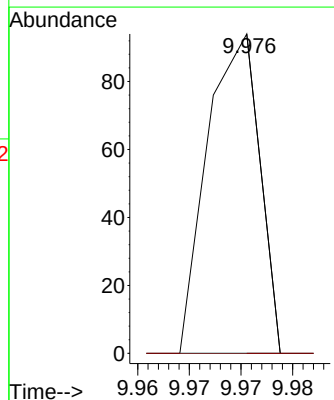
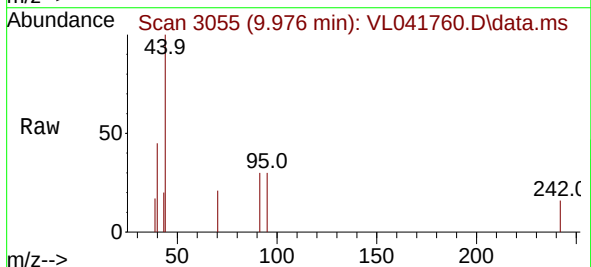
Acq: 16 Dec 2024 20:20

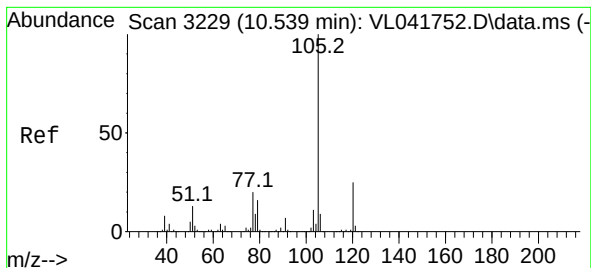
Tgt Ion: 91 Resp: 33

Ion Ratio Lower Upper

91 100

106 0.0 21.1 63.4#





#62

Isopropylbenzene

Concen: 0.001 ppbv

RT: 10.387 min Scan# 3182

Delta R.T. -0.152 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

Instrument :

MSVOA_L

ClientSampleId :

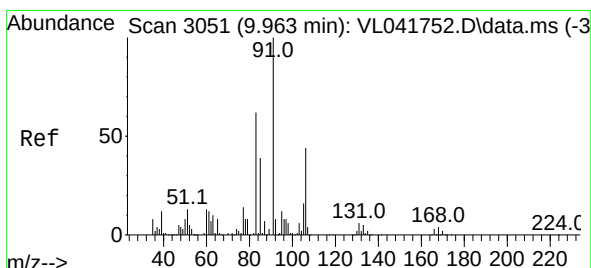
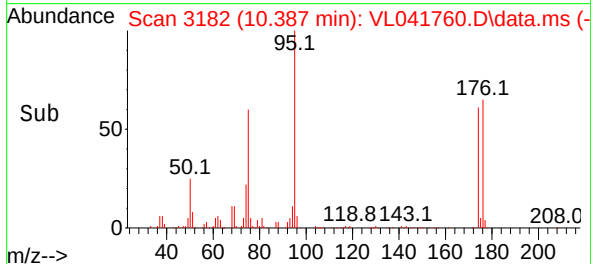
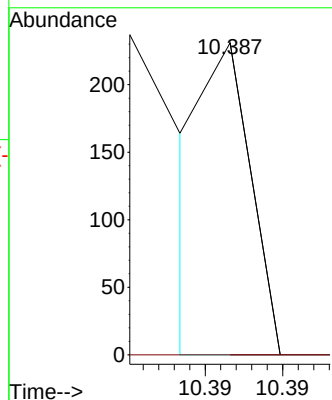
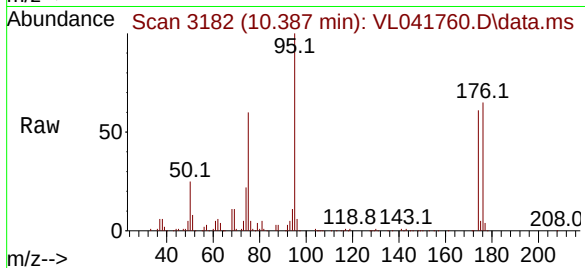
VL1216ABL01

Tgt Ion:105 Resp: 45

Ion Ratio Lower Upper

105 100

120 0.0 19.8 29.8#



#63

1,1,2,2-Tetrachloroethane

Concen: 0.003 ppbv

RT: 9.933 min Scan# 3042

Delta R.T. -0.029 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

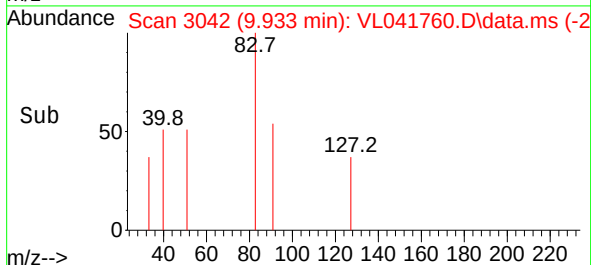
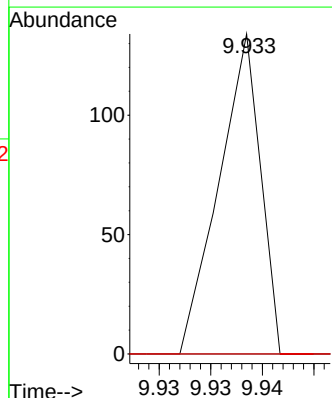
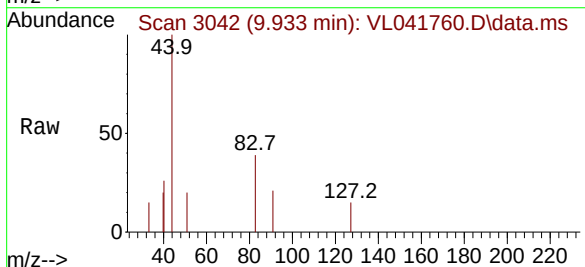
Tgt Ion: 83 Resp: 38

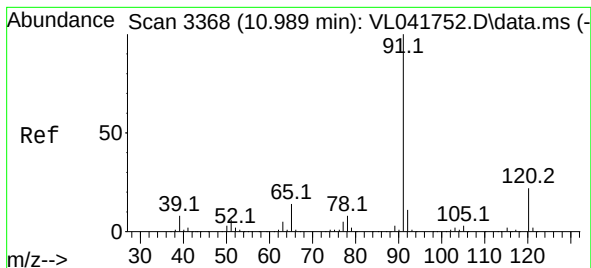
Ion Ratio Lower Upper

83 100

131 42.1 4.9 14.7#

85 0.0 32.0 96.2#





#64

n-propylbenzene

Concen: 0.004 ppbv

RT: 11.099 min Scan# 34

Delta R.T. 0.110 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

Instrument :

MSVOA_1

ClientSampleId :

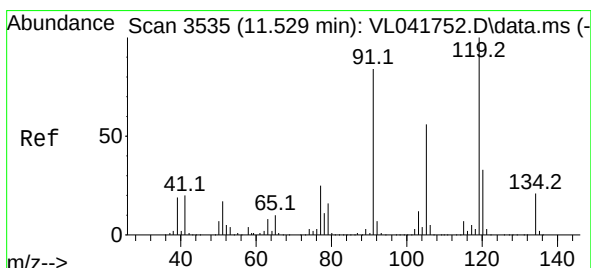
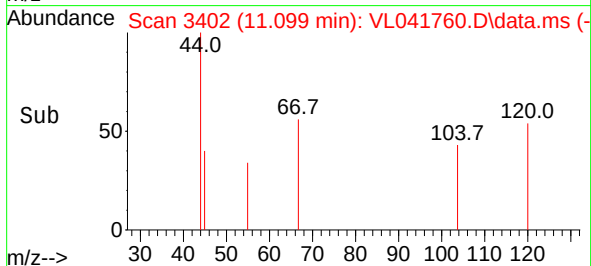
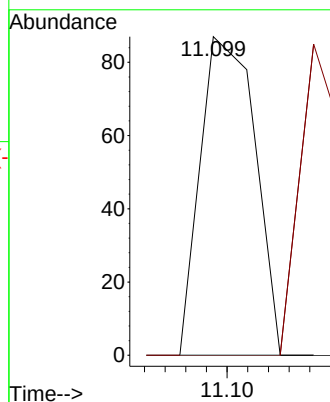
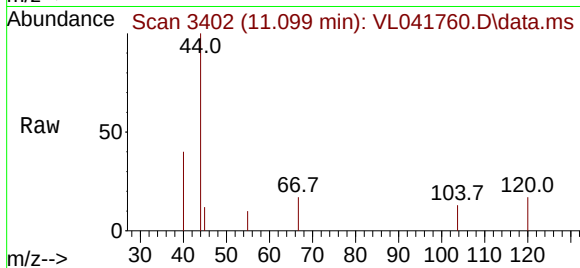
VL1216ABL01

Tgt Ion:120 Resp: 32

Ion Ratio Lower Upper

120 100

91 184.4 387.3 580.9#



#65

tert-Butylbenzene

Concen: 0.001 ppbv

RT: 11.419 min Scan# 3501

Delta R.T. -0.110 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

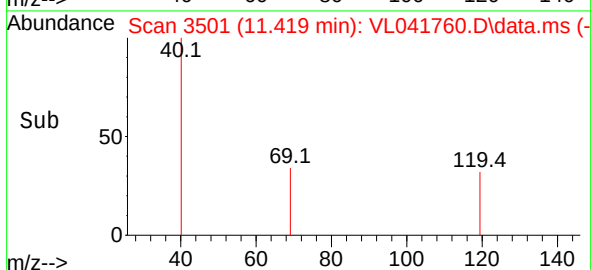
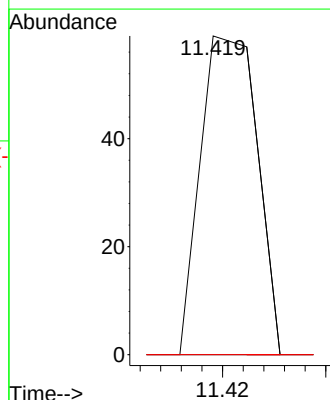
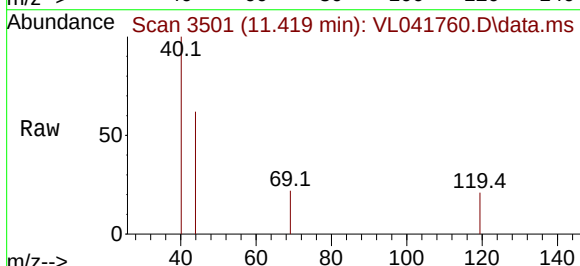
Tgt Ion:119 Resp: 23

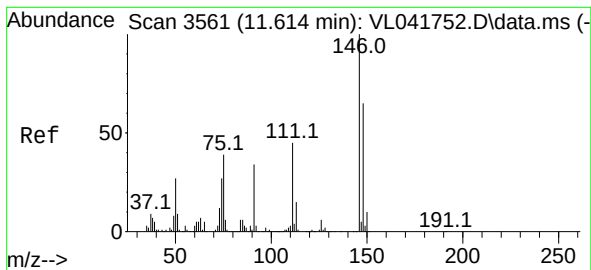
Ion Ratio Lower Upper

119 100

91 143.5 67.0 100.4#

134 0.0 16.5 24.7#

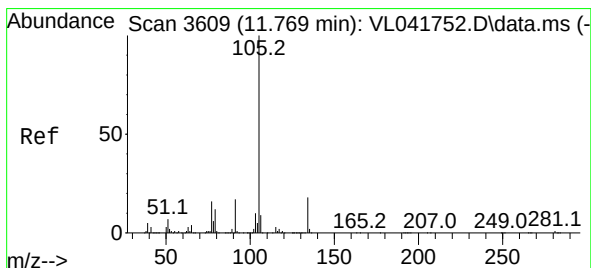
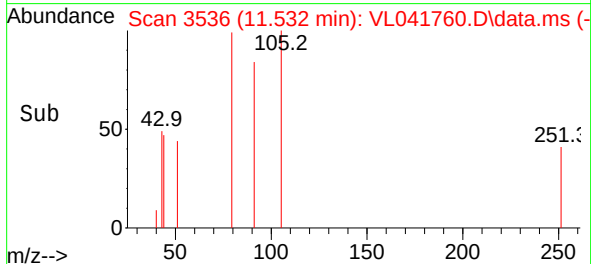
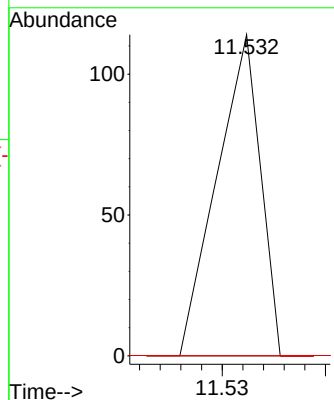
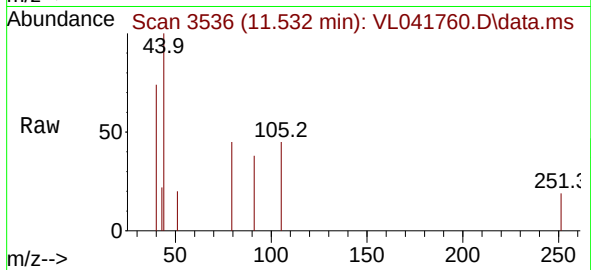




#66
Benzyl Chloride
Concen: 0.013 ppbv
RT: 11.532 min Scan# 311
Delta R.T. -0.081 min
Lab File: VL041760.D
Acq: 16 Dec 2024 20:20

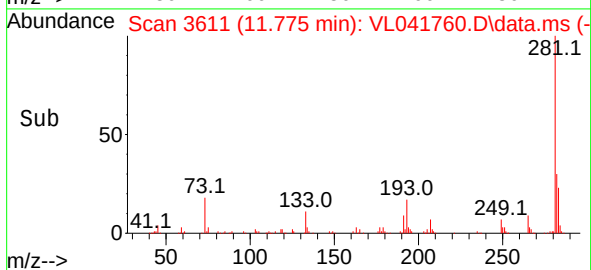
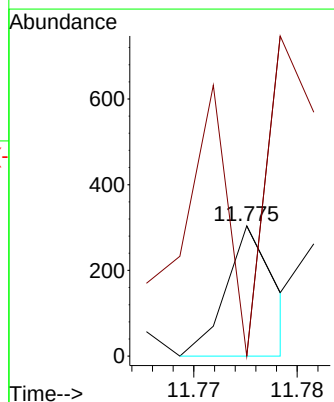
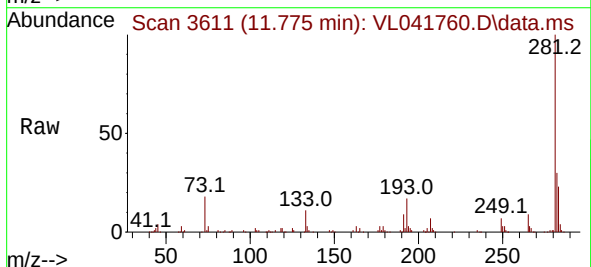
Instrument :
MSVOA_1
ClientSampleId :
VL1216ABL01

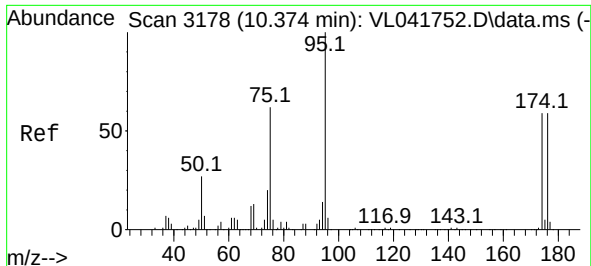
Tgt Ion: 91 Resp: 33
Ion Ratio Lower Upper
91 100
126 0.0 13.9 20.9#
128 0.0 4.4 6.6#



#67
sec-Butylbenzene
Concen: 0.002 ppbv
RT: 11.775 min Scan# 3611
Delta R.T. 0.006 min
Lab File: VL041760.D
Acq: 16 Dec 2024 20:20

Tgt Ion: 105 Resp: 101
Ion Ratio Lower Upper
105 100
134 592.1 14.5 21.7#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.790 ppbv

RT: 10.377 min Scan# 3178

Delta R.T. 0.003 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

Instrument :

MSVOA_1

ClientSampleId :

VL1216ABL01

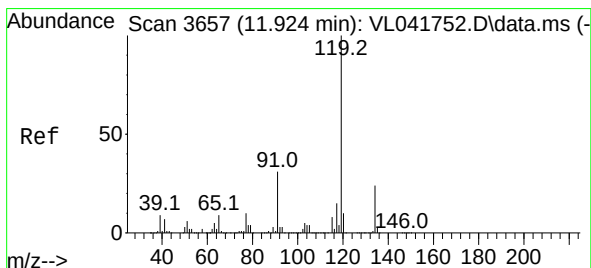
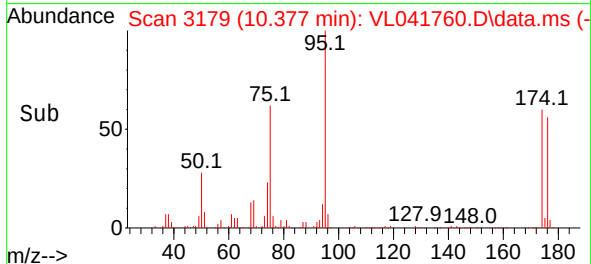
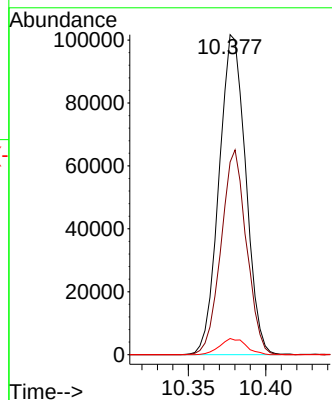
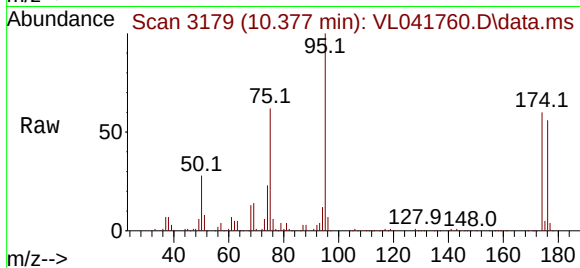
Tgt Ion: 95 Resp: 121763

Ion Ratio Lower Upper

95 100

174 60.9 47.6 71.4

175 5.0 3.7 5.5



#69

p-Isopropyltoluene

Concen: 0.001 ppbv

RT: 11.930 min Scan# 3659

Delta R.T. 0.006 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

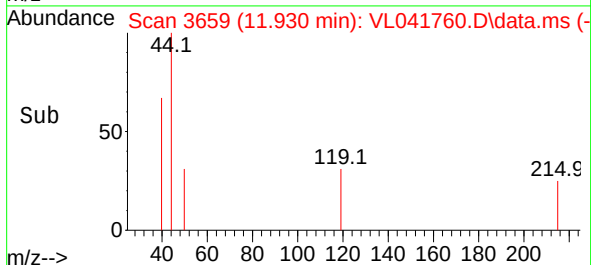
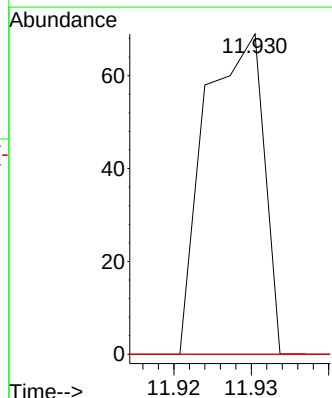
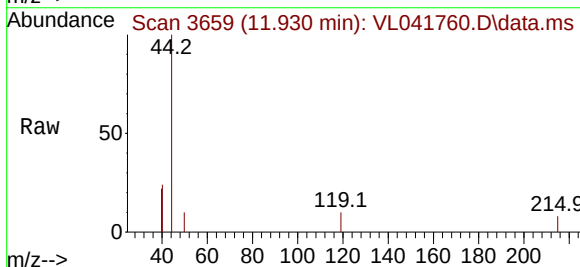
Tgt Ion: 119 Resp: 36

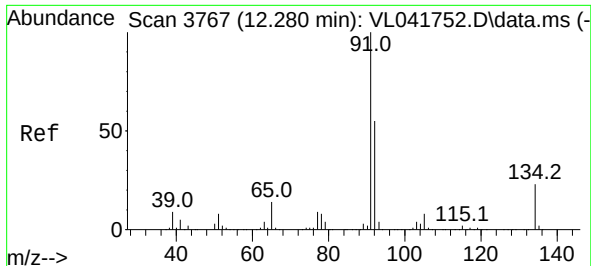
Ion Ratio Lower Upper

119 100

134 0.0 19.6 29.4#

91 0.0 24.4 36.6#

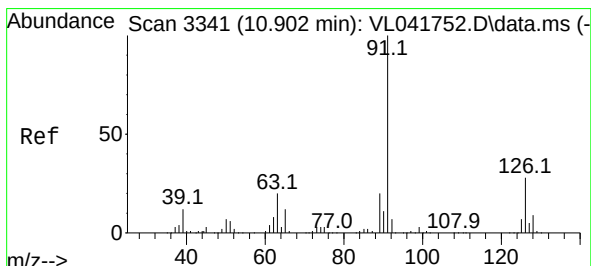
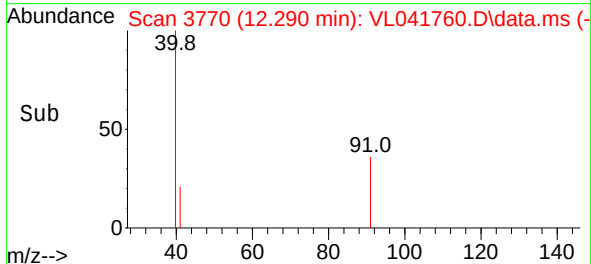
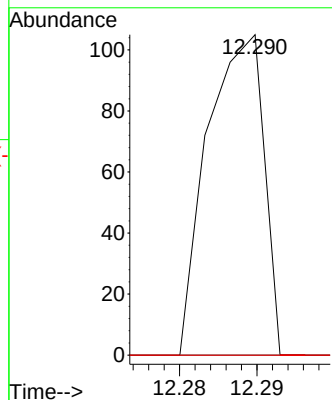
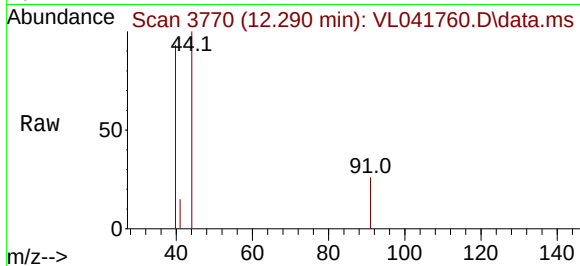




#70
n-Butylbenzene
Concen: 0.002 ppbv
RT: 12.290 min Scan# 31
Delta R.T. 0.009 min
Lab File: VL041760.D
Acq: 16 Dec 2024 20:20

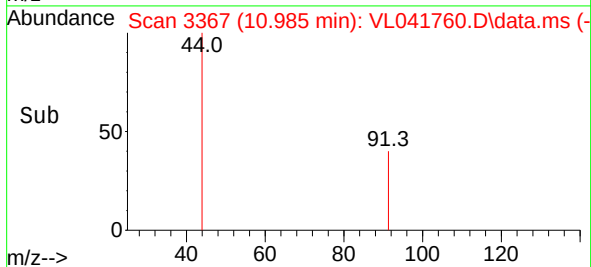
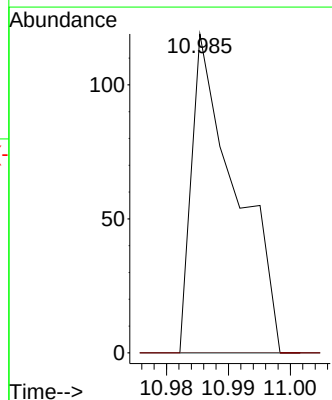
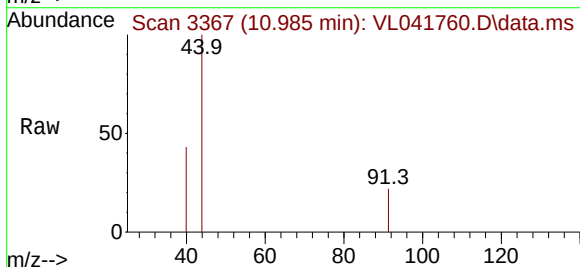
Instrument :
MSVOA_L
ClientSampleId :
VL1216ABL01

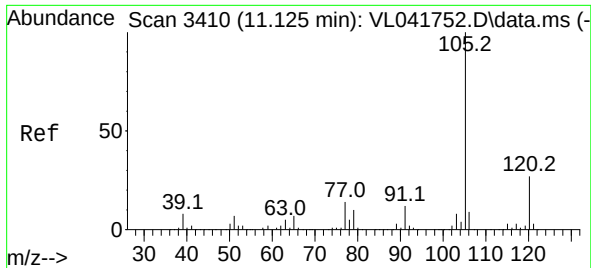
Tgt Ion: 91 Resp: 53
Ion Ratio Lower Upper
91 100
92 0.0 43.2 64.8#
134 20.8 18.2 27.4



#71
2-Chlorotoluene
Concen: 0.002 ppbv
RT: 10.985 min Scan# 3367
Delta R.T. 0.084 min
Lab File: VL041760.D
Acq: 16 Dec 2024 20:20

Tgt Ion: 91 Resp: 59
Ion Ratio Lower Upper
91 100
126 30.5 11.6 46.4

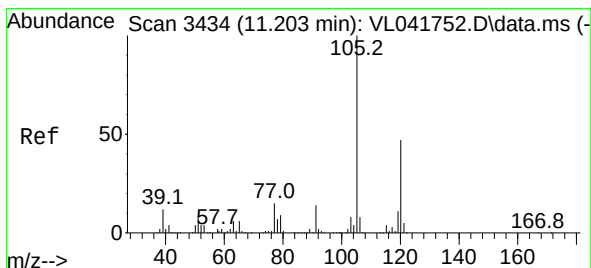
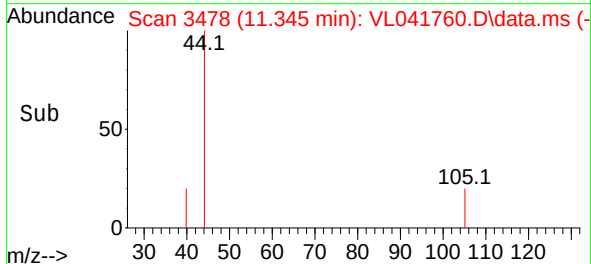
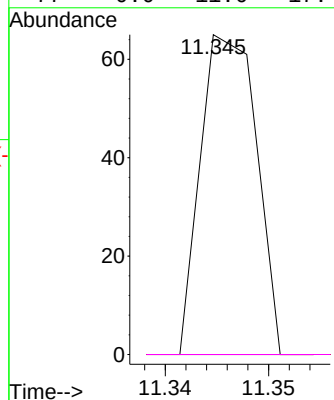
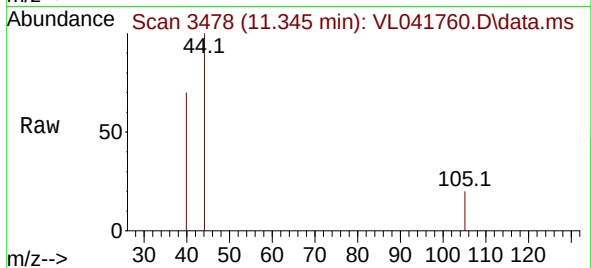




#72
4-Ethyltoluene
Concen: 0.001 ppbv
RT: 11.345 min Scan# 3410
Delta R.T. 0.220 min
Lab File: VL041760.D
Acq: 16 Dec 2024 20:20

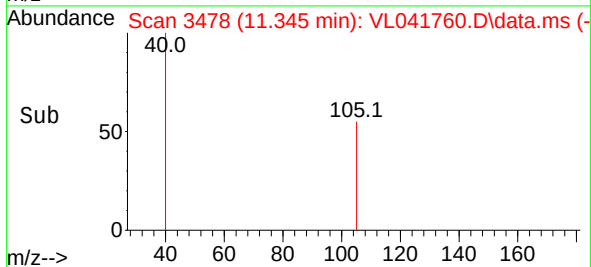
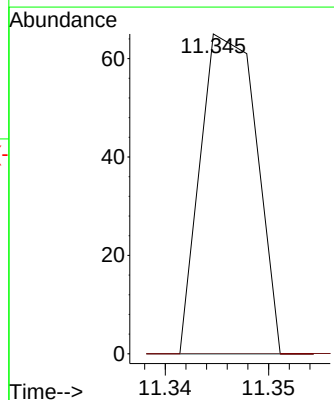
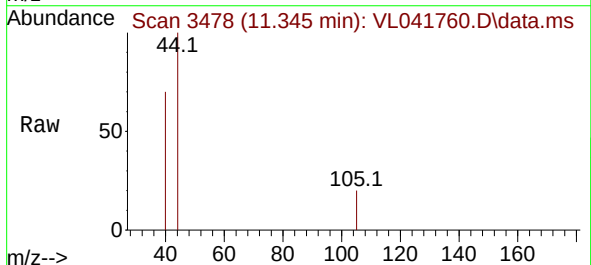
Instrument :
MSVOA_L
ClientSampleId :
VL1216ABL01

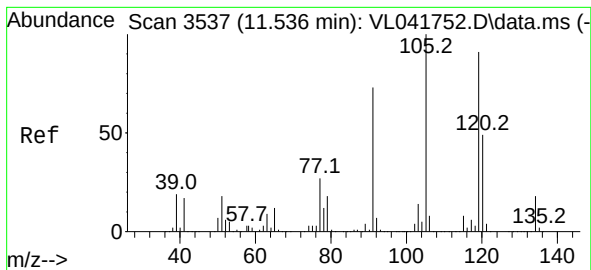
Tgt Ion:105	Resp:	24
Ion	Ratio	Lower Upper
105	100	
120	0.0	23.3 34.9#
91	0.0	10.9 16.3#
77	0.0	11.6 17.4#



#73
1,3,5-Trimethylbenzene
Concen: 0.001 ppbv
RT: 11.345 min Scan# 3478
Delta R.T. 0.142 min
Lab File: VL041760.D
Acq: 16 Dec 2024 20:20

Tgt Ion:105	Resp:	24
Ion	Ratio	Lower Upper
105	100	
120	0.0	37.4 56.2#





#74

1,2,4-Trimethylbenzene

Concen: 0.009 ppbv

RT: 11.542 min Scan# 3537

Delta R.T. 0.006 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

Instrument :

MSVOA_1

ClientSampleId :

VL1216ABL01

Tgt Ion:105 Resp: 199

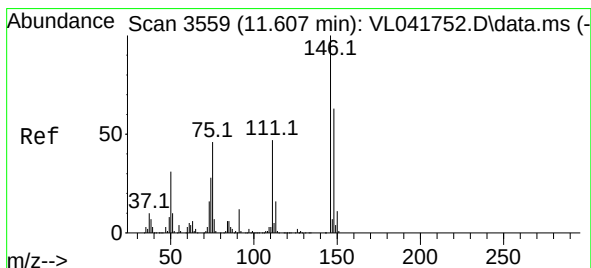
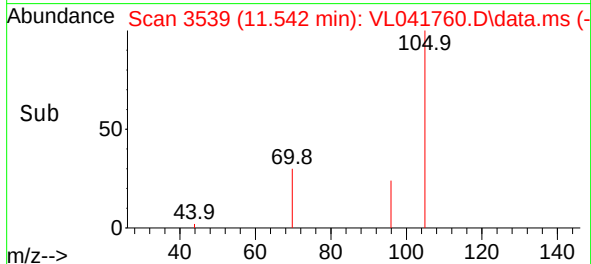
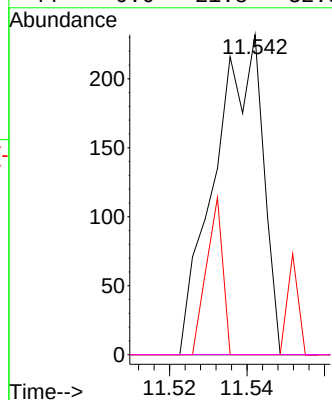
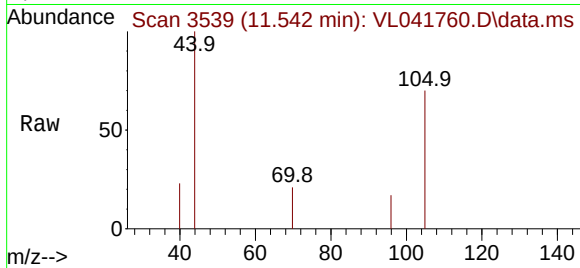
Ion Ratio Lower Upper

105 100

120 0.0 39.0 58.4#

91 0.0 58.1 87.1#

77 0.0 21.8 32.8#



#75

1,3-Dichlorobenzene

Concen: 0.002 ppbv

RT: 11.772 min Scan# 3610

Delta R.T. 0.165 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

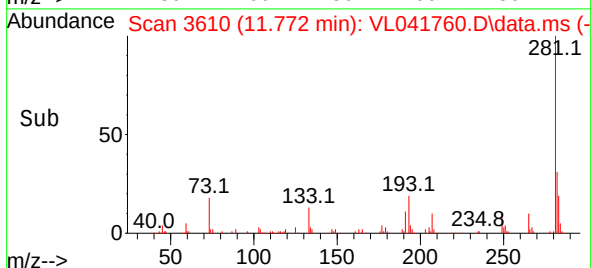
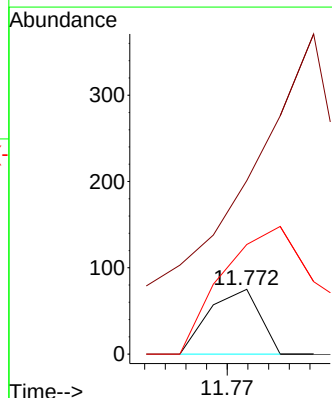
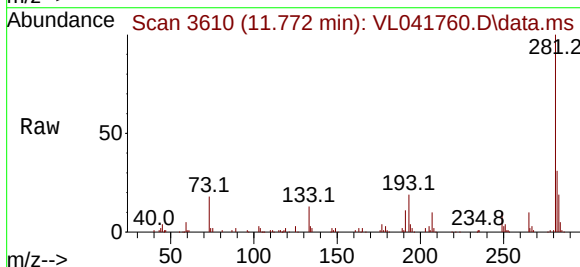
Tgt Ion:146 Resp: 26

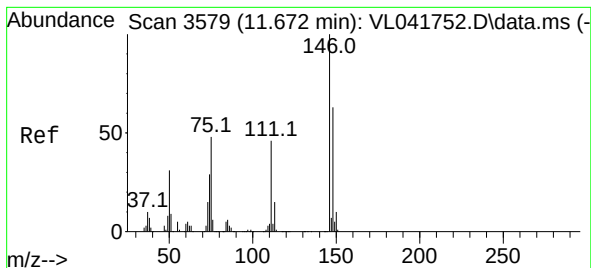
Ion Ratio Lower Upper

146 100

111 1000.0 23.4 70.3#

148 476.9 31.6 95.0#





#76

1,4-Dichlorobenzene

Concen: 0.002 ppbv

RT: 11.772 min Scan# 3

Delta R.T. 0.100 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

Instrument :

MSVOA_1

ClientSampleId :

VL1216ABL01

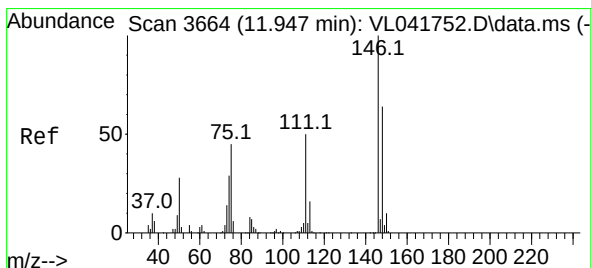
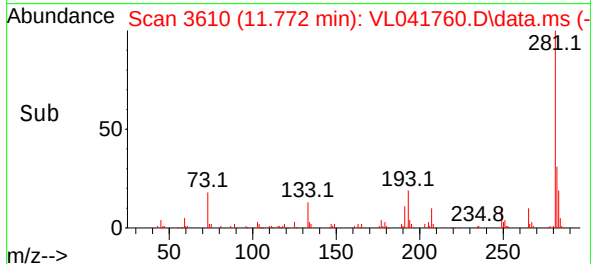
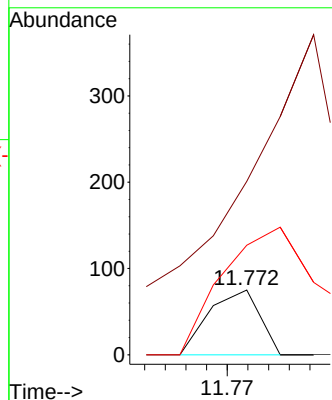
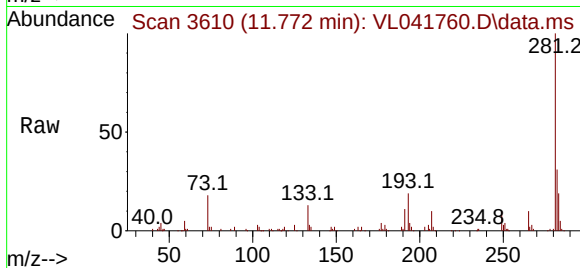
Tgt Ion:146 Resp: 26

Ion Ratio Lower Upper

146 100

111 1000.0 22.7 68.1#

148 476.9 31.4 94.0#



#77

1,2-Dichlorobenzene

Concen: 0.002 ppbv

RT: 11.947 min Scan# 3664

Delta R.T. -0.000 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

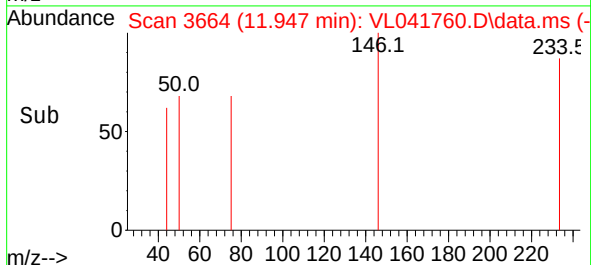
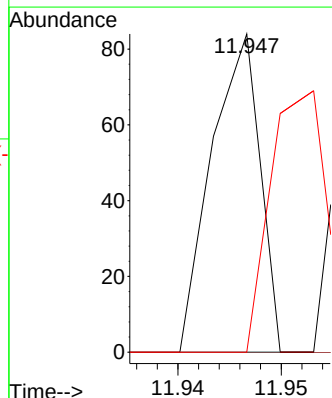
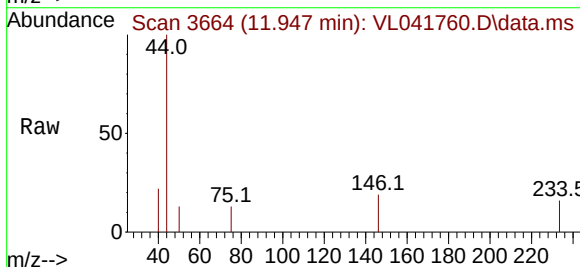
Tgt Ion:146 Resp: 27

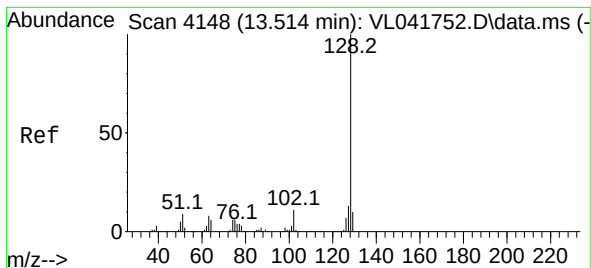
Ion Ratio Lower Upper

146 100

111 0.0 24.8 74.3#

148 0.0 31.8 95.4#





#79

Naphthalene

Concen: 0.010 ppbv

RT: 13.516 min Scan# 4148

Delta R.T. 0.003 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

Instrument :

MSVOA_L

ClientSampleId :

VL1216ABL01

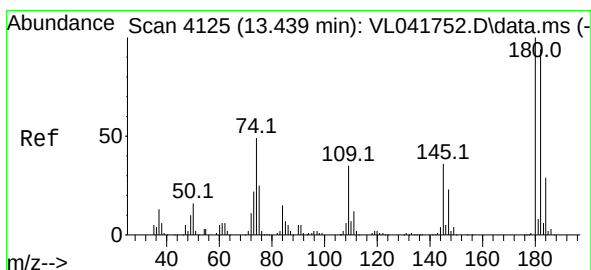
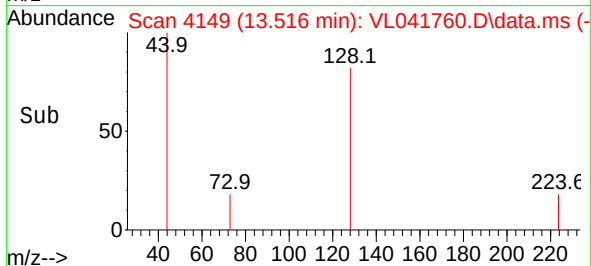
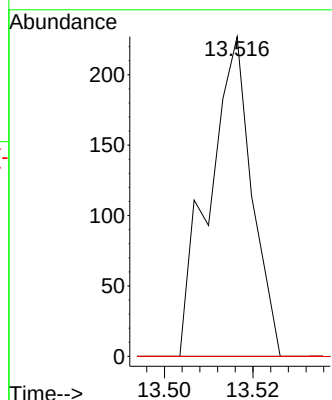
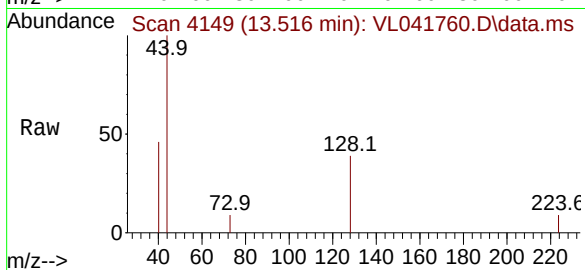
Tgt Ion:128 Resp: 153

Ion Ratio Lower Upper

128 100

127 0.0 10.7 16.1#

129 0.0 8.2 12.4#



#81

1,2,4-Trichlorobenzene

Concen: 0.013 ppbv

RT: 13.448 min Scan# 4128

Delta R.T. 0.009 min

Lab File: VL041760.D

Acq: 16 Dec 2024 20:20

Tgt Ion:180 Resp: 113

Ion Ratio Lower Upper

180 100

182 206.2 77.0 115.6#

184 8.8 23.8 35.8#

