

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121624\
 Data File : VL041767.D
 Acq On : 16 Dec 2024 23:55
 Operator : SY/MD
 Sample : MDL 0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 20 03:34:33 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	2.793	49	56547	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	3.968	114	151595	10.000	ppbv	0.01
55) Chlorobenzene-d5	8.891	117	132362	10.000	ppbv	0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.386	95	106669	9.671	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.700%

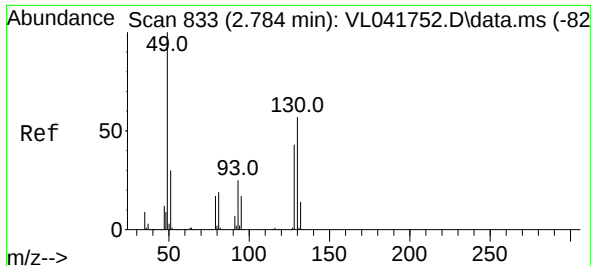
Target Compounds					Qvalue
2) Dichlorodifluoromethane	1.557	85	449	0.045	ppbv 94
3) Chlorodifluoromethane	1.476	51	393	0.043	ppbv 99
4) Chloromethane	1.537	50	164	0.042	ppbv # 86
5) Vinyl Chloride	1.586	62	82	0.021	ppbv # 61
6) Bromomethane	1.677	94	63	0.034	ppbv 93
7) Chloroethane	1.706	64	80	0.052	ppbv 95
8) Dichlorotetrafluoroethane	1.557	85	449	0.050	ppbv 92
9) Propene	1.431	41	52	0.013	ppbv 93
10) Heptane	4.994	43	207	0.020	ppbv # 80
11) Trichlorofluoromethane	1.884	101	513	0.048	ppbv 99
12) 1,1,2-Trichlorotrifluo...	2.143	101	285	0.035	ppbv 96
13) Ethanol	1.725	45	89	0.269	ppbv # 1
14) Bromoethene	1.787	108	112	0.041	ppbv # 91
15) Acetone	1.842	43	1823	0.166	ppbv 98
16) 1,3-Butadiene	1.612	39	256	0.059	ppbv # 73
17) tert-Butyl alcohol	2.049	59	514	0.047	ppbv # 86
18) 1,1-Dichloroethene	2.036	96	133	0.039	ppbv # 77
19) Isopropyl Alcohol	1.894	45	1966	0.298	ppbv # 34
20) Methylene Chloride	2.062	84	606	0.193	ppbv # 72
21) Allyl Chloride	2.097	41	226	0.038	ppbv # 16
22) trans-1,2-Dichloroethene	2.343	96	154	0.039	ppbv # 55

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Quant Time: Dec 20 03:34:33 2024
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 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
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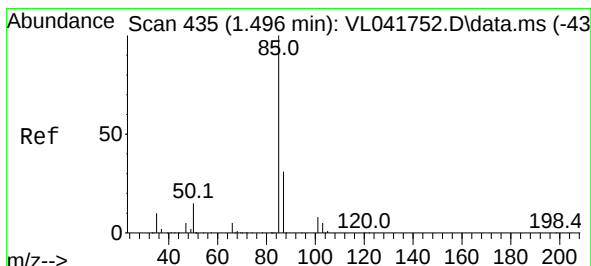
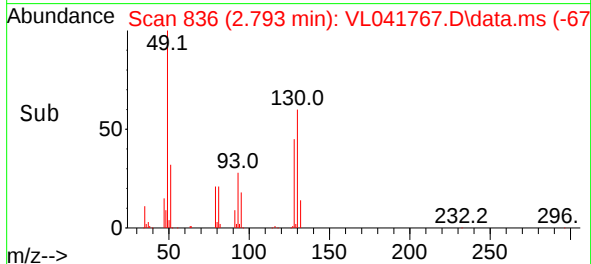
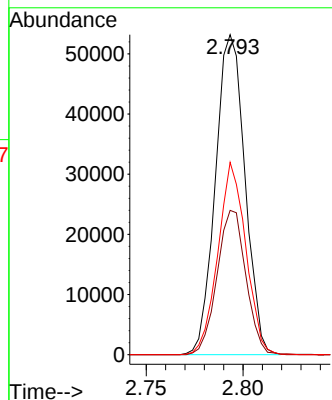
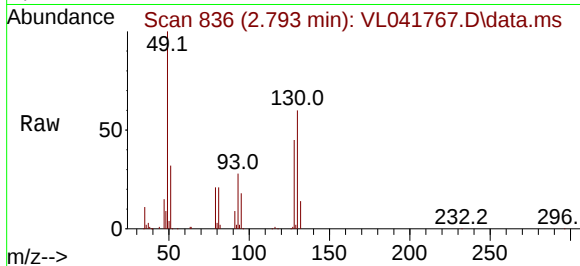
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) 1,1,2-Trichloroethane	6.596	97	135	0.023	ppbv #	57
48) Dibromochloromethane	7.402	129	50	0.006	ppbv #	11
49) Bromoform	9.493	173	139	0.021	ppbv #	28
50) 4-Methyl-2-Pentanone	5.781	43	56	0.003	ppbv #	41
51) 2-Hexanone	7.451	43	41	0.003	ppbv #	31
52) Tetrachloroethene	8.244	164	64	0.011	ppbv #	22
53) Toluene	6.952	91	188	0.011	ppbv #	1
54) 1,2-Dibromoethane	7.664	107	124	0.015	ppbv	93
56) 1,1,1,2-Tetrachloroethane	8.943	131	71	0.010	ppbv #	9
57) Chlorobenzene	8.933	112	183	0.014	ppbv #	41
58) Ethyl Benzene	9.360	91	664	0.028	ppbv	97
59) m/p-Xylene	9.561	91	476	0.025	ppbv #	100
60) o-Xylene	9.972	91	338	0.018	ppbv	92
61) Styrene	9.882	104	70	0.008	ppbv #	42
62) Isopropylbenzene	10.548	105	845	0.029	ppbv	100
63) 1,1,2,2-Tetrachloroethane	9.979	83	123	0.010	ppbv #	1
64) n-propylbenzene	11.001	120	93	0.013	ppbv #	1
65) tert-Butylbenzene	11.535	119	631	0.024	ppbv	95
66) Benzyl Chloride	11.555	91	22	0.010	ppbv #	66
67) sec-Butylbenzene	11.778	105	753	0.021	ppbv	93
69) p-Isopropyltoluene	11.937	119	355	0.012	ppbv #	75
70) n-Butylbenzene	12.286	91	753	0.026	ppbv #	75
71) 2-Chlorotoluene	10.914	91	527	0.024	ppbv	98
72) 4-Ethyltoluene	11.137	105	460	0.020	ppbv #	87
73) 1,3,5-Trimethylbenzene	11.218	105	185	0.010	ppbv #	71
74) 1,2,4-Trimethylbenzene	11.545	105	350	0.017	ppbv #	78
75) 1,3-Dichlorobenzene	11.616	146	418	0.032	ppbv	90
76) 1,4-Dichlorobenzene	11.688	146	125	0.010	ppbv #	1
77) 1,2-Dichlorobenzene	11.616	146	418			



#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.793 min Scan# 84
Delta R.T. 0.009 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

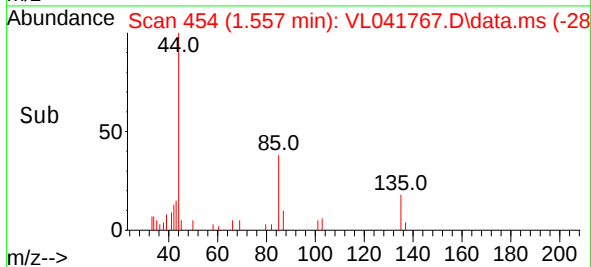
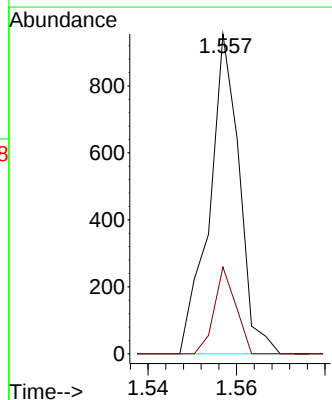
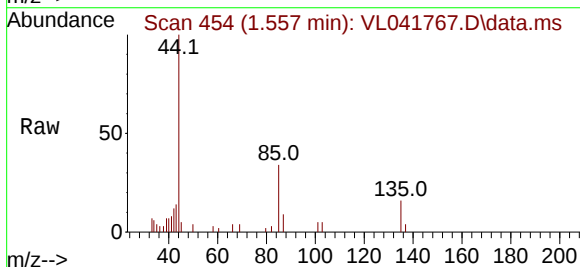
Instrument :
MSVOA_L
ClientSampleId :

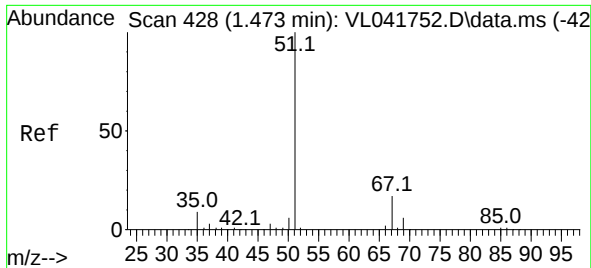
Tgt Ion: 49 Resp: 56547
Ion Ratio Lower Upper
49 100
128 43.9 21.6 64.6
130 56.8 28.3 85.0



#2
Dichlorodifluoromethane
Concen: 0.045 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.061 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

Tgt Ion: 85 Resp: 449
Ion Ratio Lower Upper
85 100
87 27.1 24.5 36.7

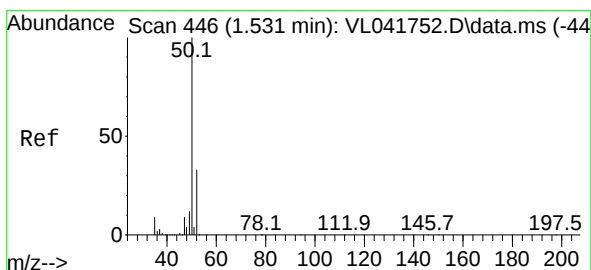
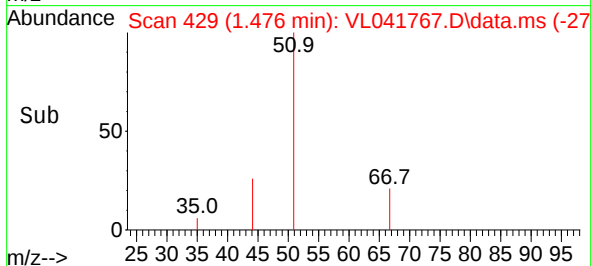
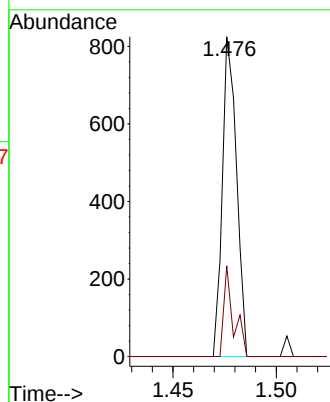
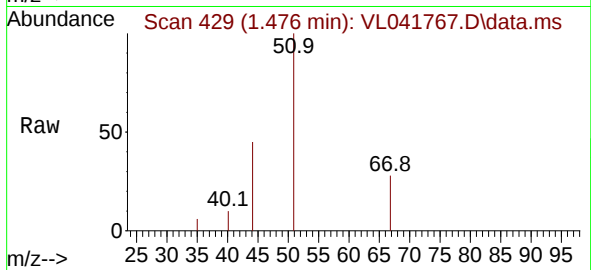




#3
Chlorodifluoromethane
Concen: 0.043 ppbv
RT: 1.476 min Scan# 41
Delta R.T. 0.003 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

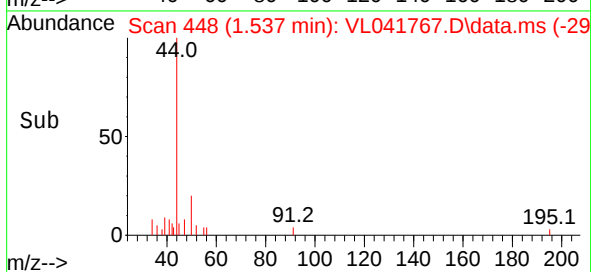
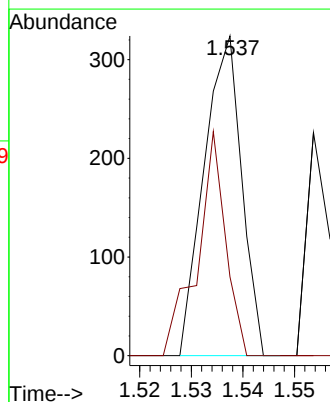
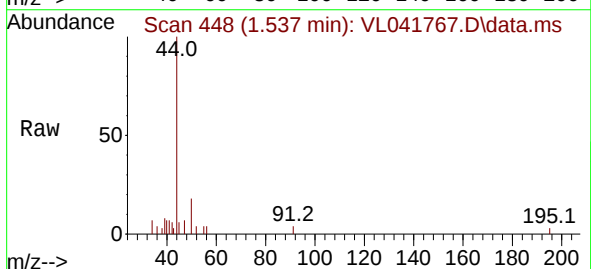
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ClientSampleId :

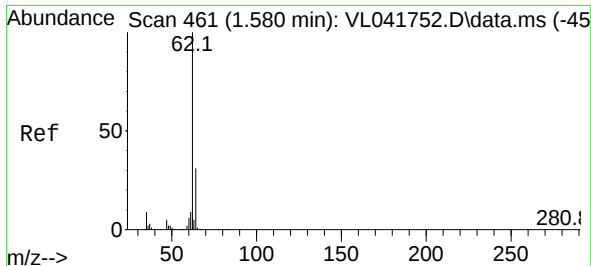
Tgt Ion: 51 Resp: 393
Ion Ratio Lower Upper
51 100
67 19.3 15.0 22.4



#4
Chloromethane
Concen: 0.042 ppbv
RT: 1.537 min Scan# 448
Delta R.T. 0.006 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

Tgt Ion: 50 Resp: 164
Ion Ratio Lower Upper
50 100
52 24.7 26.2 39.2#

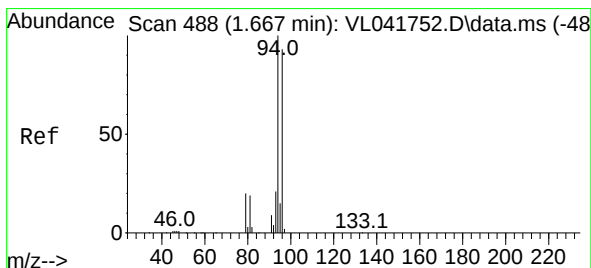
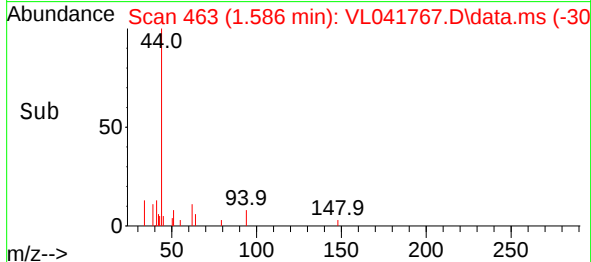
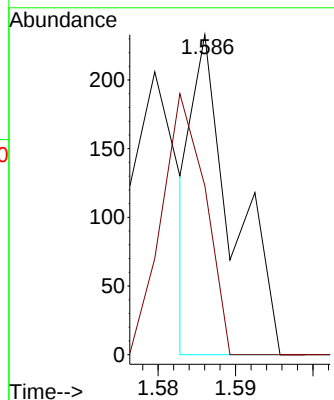
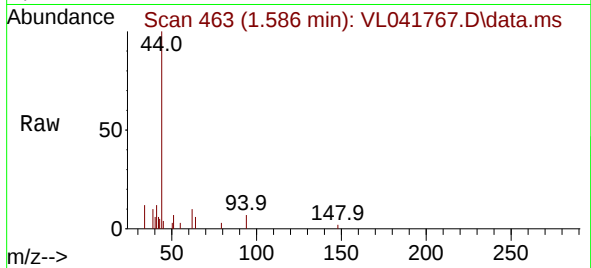




#5
 Vinyl Chloride
 Concen: 0.021 ppbv
 RT: 1.586 min Scan# 40
 Delta R.T. 0.006 min
 Lab File: VL041767.D
 Acq: 16 Dec 2024 23:55

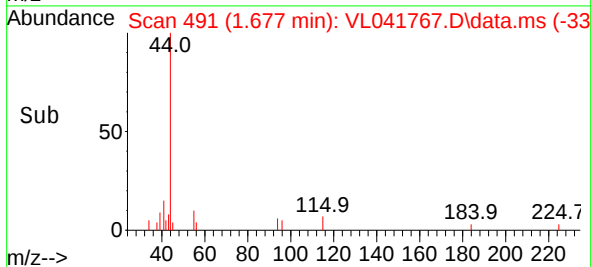
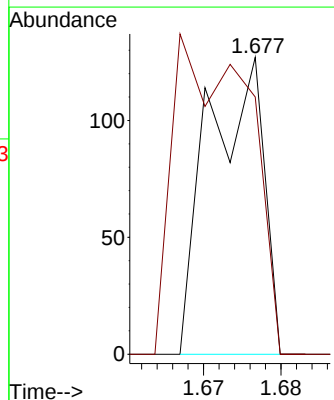
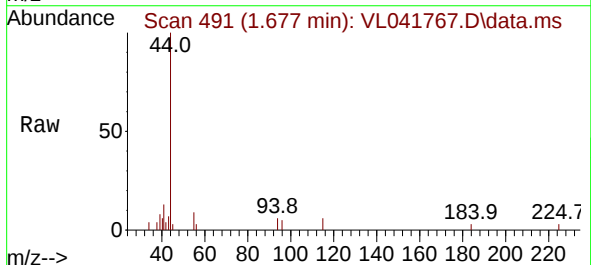
Instrument :
 MSVOA_L
 ClientSampleId :

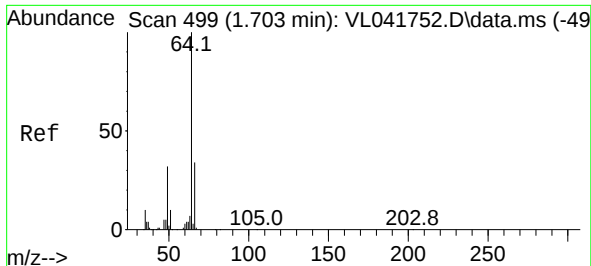
Tgt Ion: 62 Resp: 82
 Ion Ratio Lower Upper
 62 100
 64 52.8 25.1 37.7#



#6
 Bromomethane
 Concen: 0.034 ppbv
 RT: 1.677 min Scan# 491
 Delta R.T. 0.009 min
 Lab File: VL041767.D
 Acq: 16 Dec 2024 23:55

Tgt Ion: 94 Resp: 63
 Ion Ratio Lower Upper
 94 100
 96 86.6 74.7 112.1

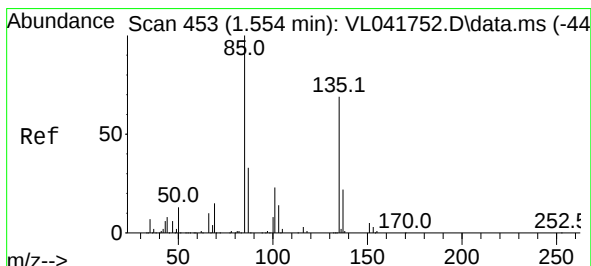
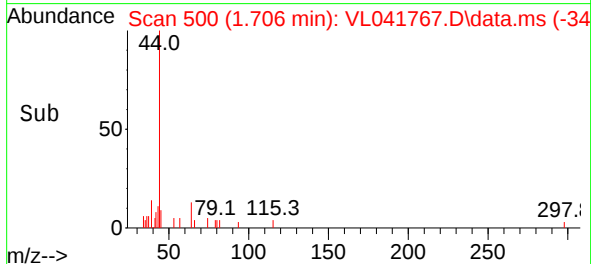
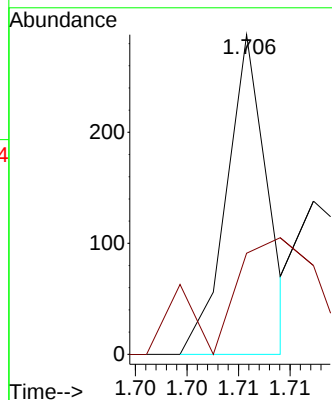
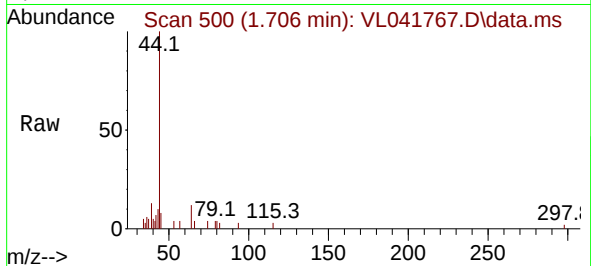




#7
Chloroethane
Concen: 0.052 ppbv
RT: 1.706 min Scan# 50
Delta R.T. 0.003 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

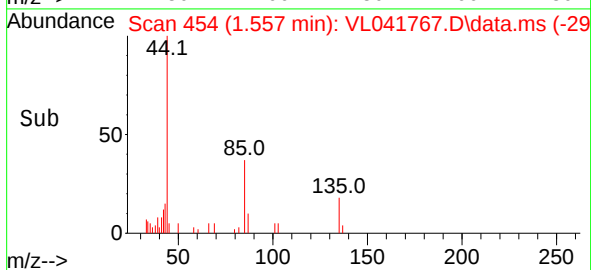
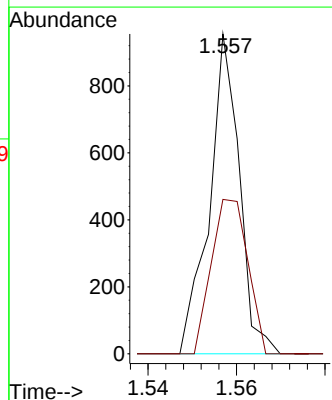
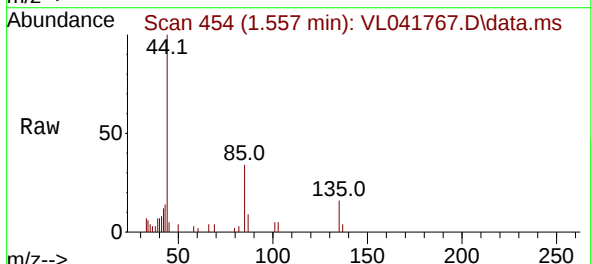
Instrument :
MSVOA_L
ClientSampleId :

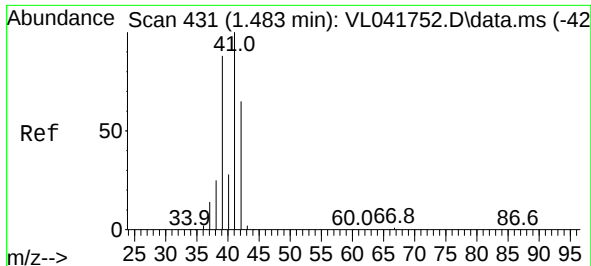
Tgt Ion: 64 Resp: 80
Ion Ratio Lower Upper
64 100
66 31.6 27.5 41.3



#8
Dichlorotetrafluoroethane
Concen: 0.050 ppbv
RT: 1.557 min Scan# 454
Delta R.T. 0.003 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

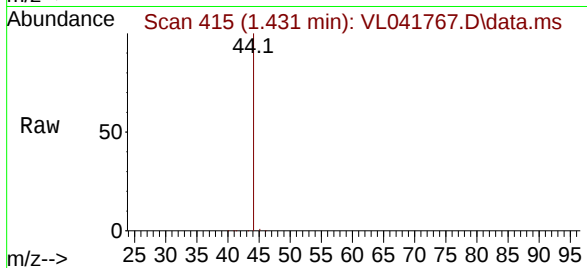
Tgt Ion: 85 Resp: 449
Ion Ratio Lower Upper
85 100
135 58.8 51.9 77.9



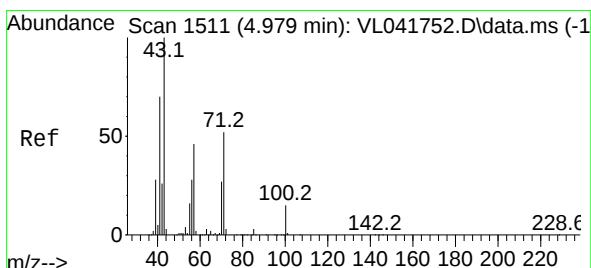
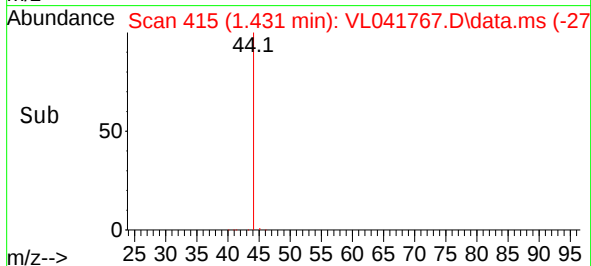
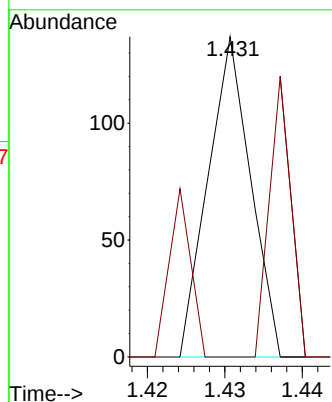


#9
Propene
Concen: 0.013 ppbv
RT: 1.431 min Scan# 41
Delta R.T. -0.052 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

Instrument :
MSVOA_L
ClientSampleId :

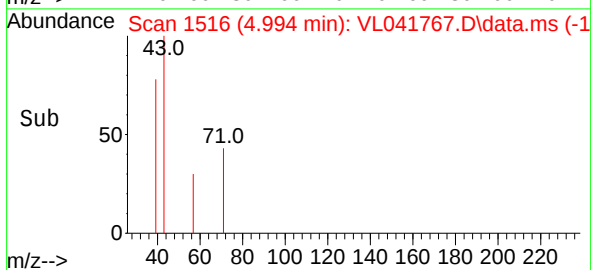
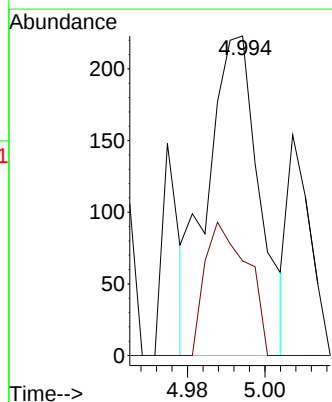
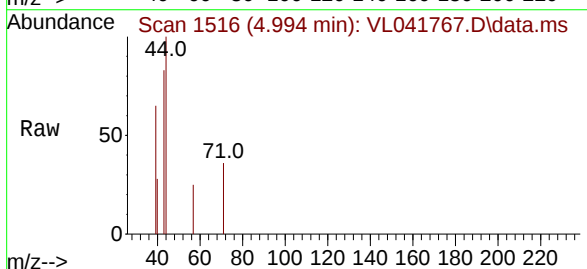


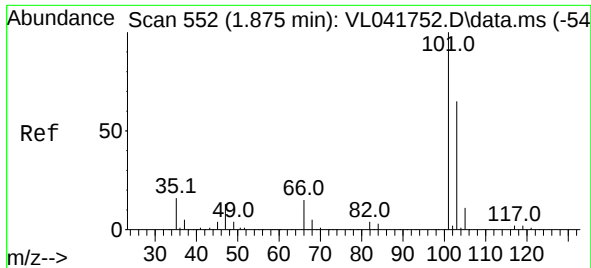
Tgt Ion: 41 Resp: 52
Ion Ratio Lower Upper
41 100
42 71.2 52.4 78.6



#10
Heptane
Concen: 0.020 ppbv
RT: 4.994 min Scan# 1516
Delta R.T. 0.016 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

Tgt Ion: 43 Resp: 207
Ion Ratio Lower Upper
43 100
57 34.3 38.5 57.7#





#11

Trichlorofluoromethane

Concen: 0.048 ppbv

RT: 1.884 min Scan# 513

Delta R.T. 0.009 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

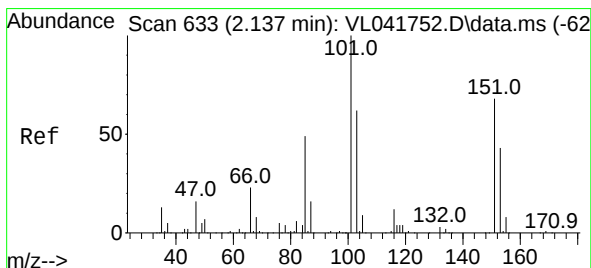
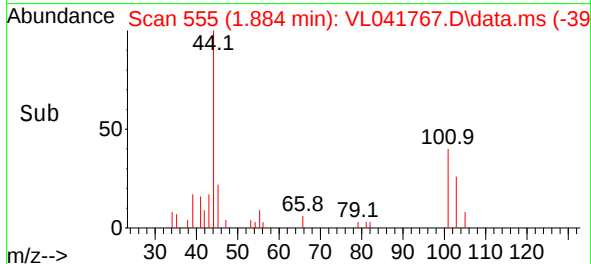
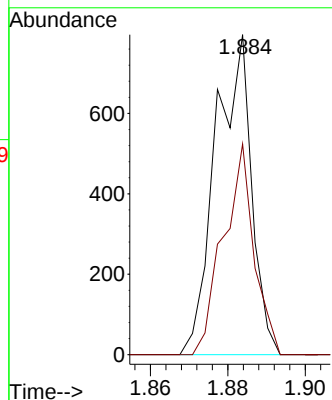
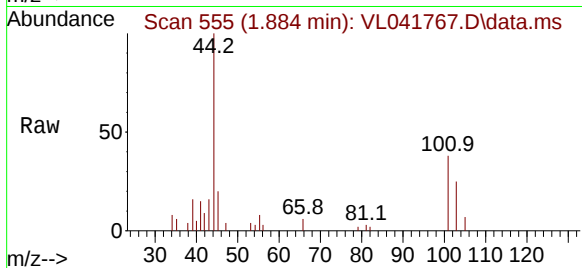
ClientSampleId :

Tgt Ion:101 Resp: 513

Ion Ratio Lower Upper

101 100

103 65.8 51.8 77.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.035 ppbv

RT: 2.143 min Scan# 635

Delta R.T. 0.006 min

Lab File: VL041767.D

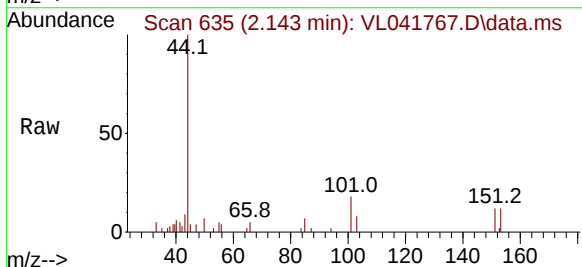
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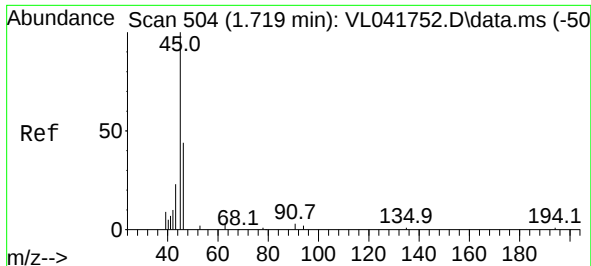
Tgt Ion:101 Resp: 285

Ion Ratio Lower Upper

101 100

151 74.4 56.8 85.2





#13

Ethanol

Concen: 0.269 ppbv

RT: 1.725 min Scan# 50

Delta R.T. 0.006 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

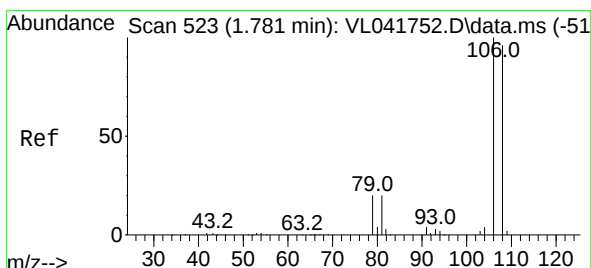
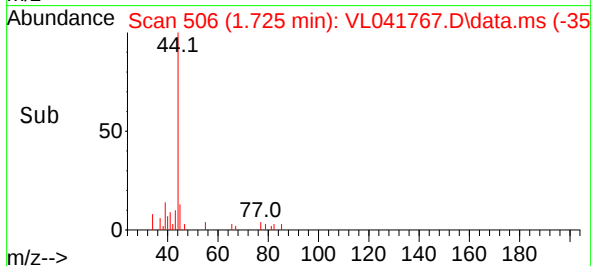
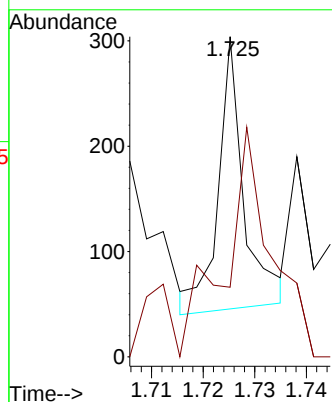
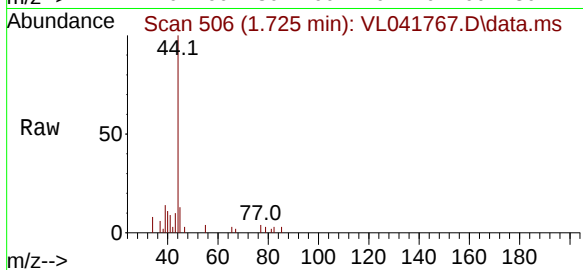
ClientSampleId :

Tgt Ion: 45 Resp: 89

Ion Ratio Lower Upper

45 100

46 179.8 16.4 65.8#



#14

Bromoethene

Concen: 0.041 ppbv

RT: 1.787 min Scan# 525

Delta R.T. 0.006 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

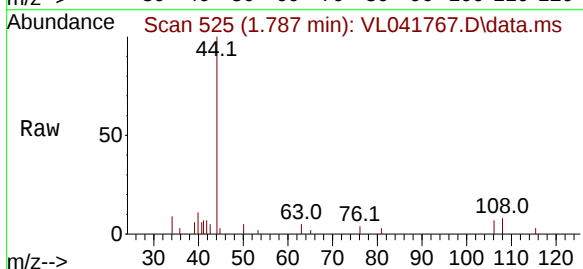
Tgt Ion:108 Resp: 112

Ion Ratio Lower Upper

108 100

106 98.2 84.1 126.1

79 12.5 17.4 26.0#





#15

Acetone

Concen: 0.166 ppbv

RT: 1.842 min Scan# 54

Delta R.T. 0.009 min

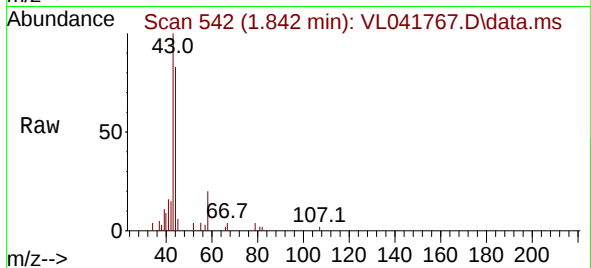
Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

ClientSampleId :

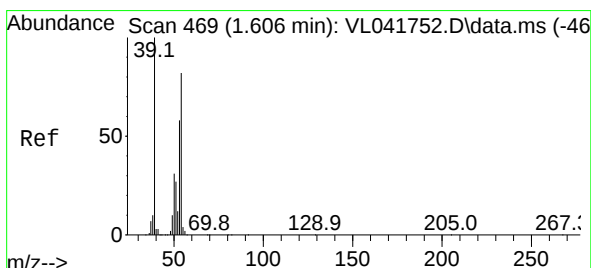
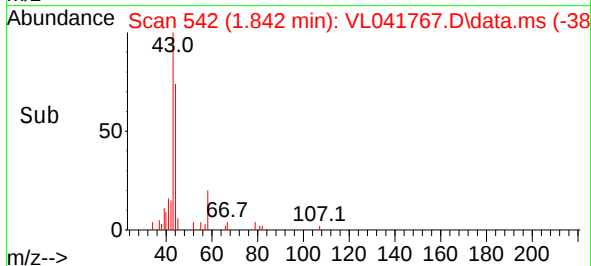
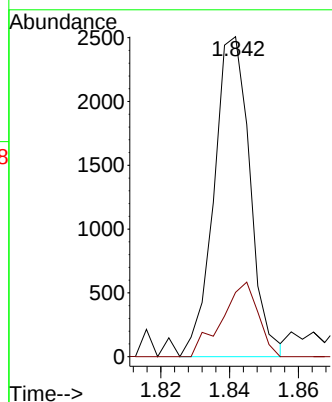


Tgt Ion: 43 Resp: 1823

Ion Ratio Lower Upper

43 100

58 23.5 19.7 29.5



#16

1,3-Butadiene

Concen: 0.059 ppbv

RT: 1.612 min Scan# 471

Delta R.T. 0.006 min

Lab File: VL041767.D

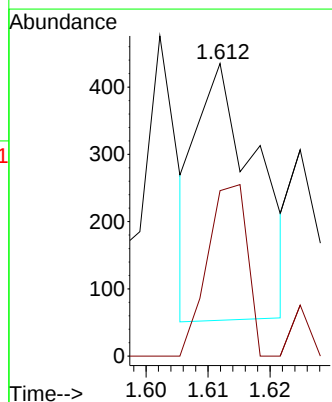
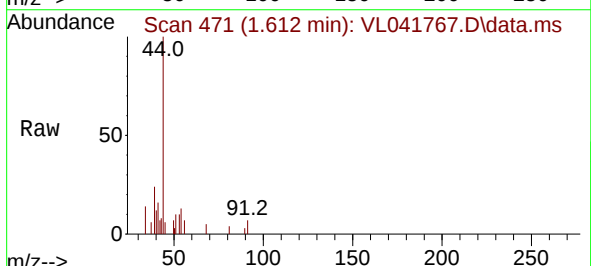
Acq: 16 Dec 2024 23:55

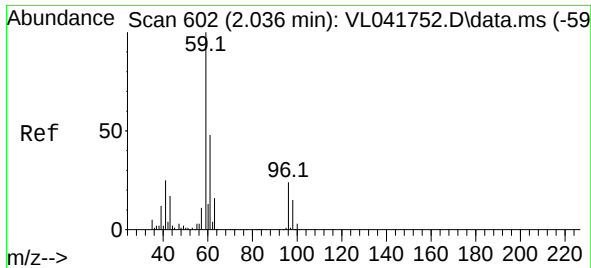
Tgt Ion: 39 Resp: 256

Ion Ratio Lower Upper

39 100

54 50.4 58.4 87.6#





#17

tert-Butyl alcohol

Concen: 0.047 ppbv

RT: 2.049 min Scan# 606

Delta R.T. 0.012 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

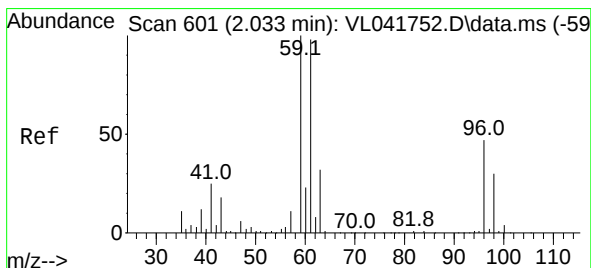
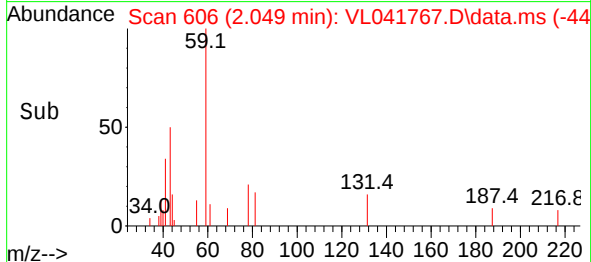
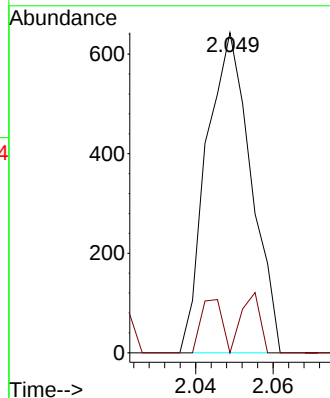
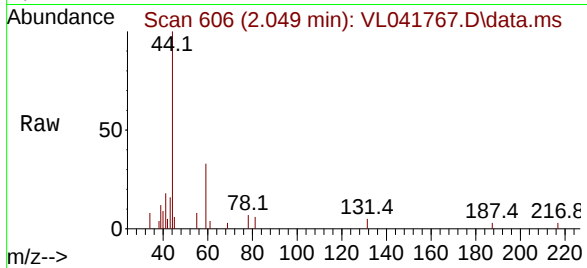
ClientSampleId :

Tgt Ion: 59 Resp: 514

Ion Ratio Lower Upper

59 100

57 16.0 8.6 13.0#



#18

1,1-Dichloroethene

Concen: 0.039 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.003 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

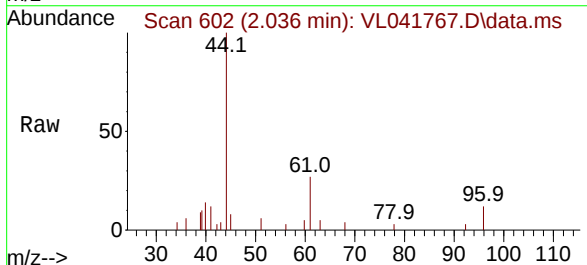
Tgt Ion: 96 Resp: 133

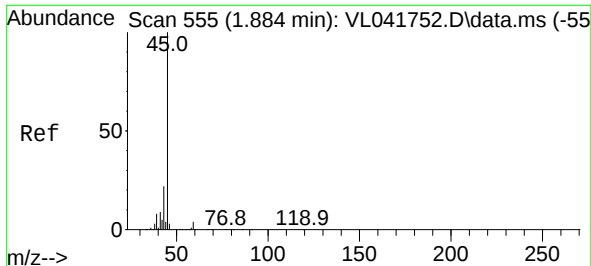
Ion Ratio Lower Upper

96 100

61 202.2 167.7 251.5

98 0.0 51.1 76.7#





#19

Isopropyl Alcohol

Concen: 0.298 ppbv

RT: 1.894 min Scan# 51

Delta R.T. 0.009 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

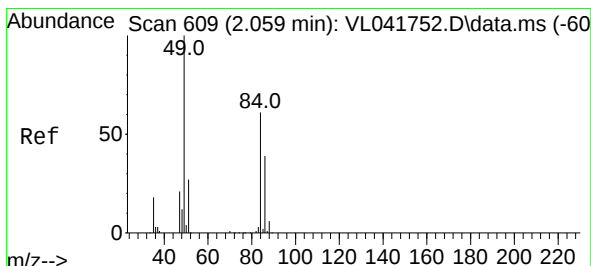
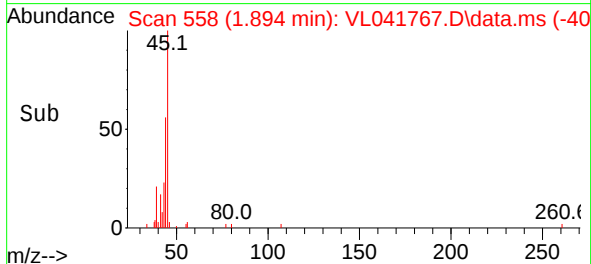
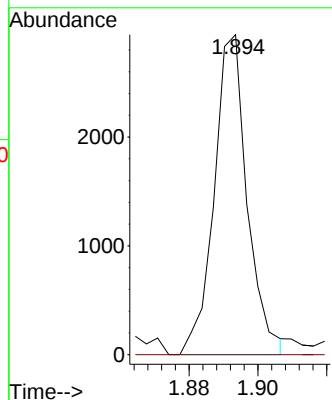
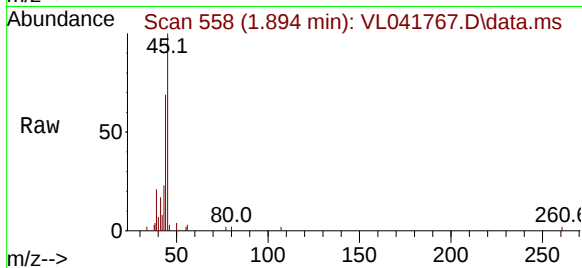
ClientSampleId :

Tgt Ion: 45 Resp: 1966

Ion Ratio Lower Upper

45 100

58 0.0 33.3 49.9#



#20

Methylene Chloride

Concen: 0.193 ppbv

RT: 2.062 min Scan# 610

Delta R.T. 0.003 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Tgt Ion: 84 Resp: 606

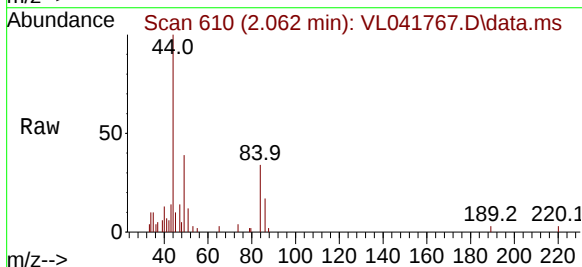
Ion Ratio Lower Upper

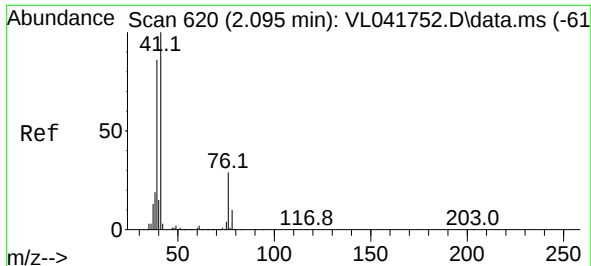
84 100

49 116.3 132.6 198.8#

51 36.8 37.6 56.4#

86 51.6 51.4 77.0





#21

Allyl Chloride

Concen: 0.038 ppbv

RT: 2.097 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

ClientSampleId :

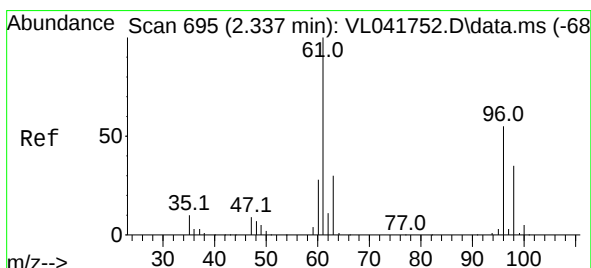
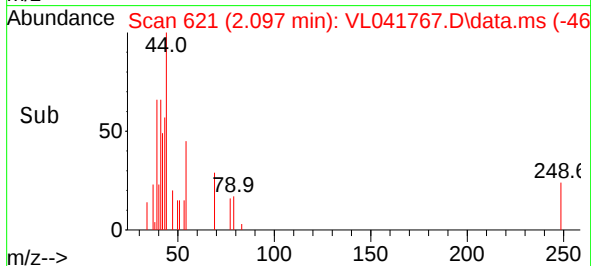
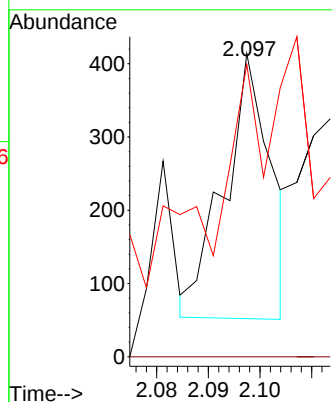
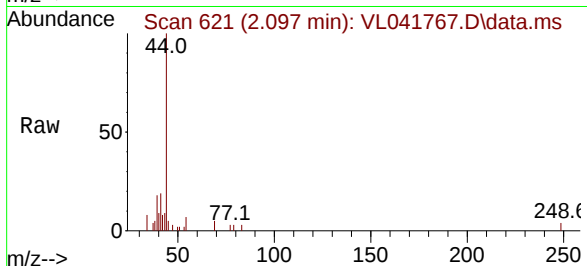
Tgt Ion: 41 Resp: 226

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: 0.039 ppbv

RT: 2.343 min Scan# 697

Delta R.T. 0.006 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

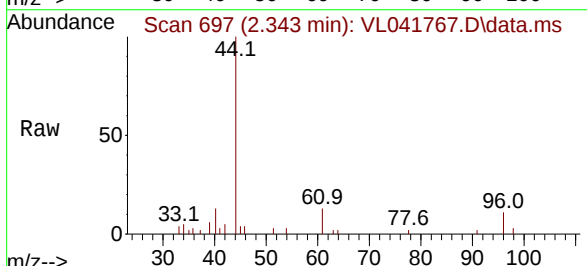
Tgt Ion: 96 Resp: 154

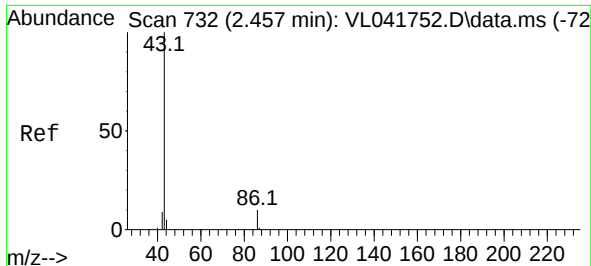
Ion Ratio Lower Upper

96 100

61 118.0 146.3 219.5#

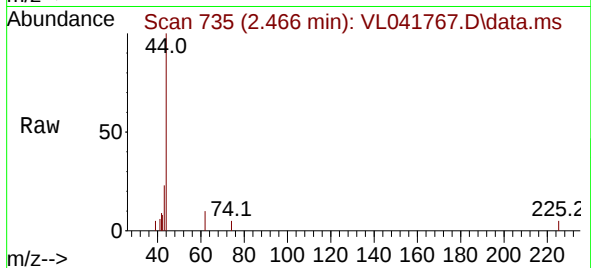
98 28.5 50.8 76.2#



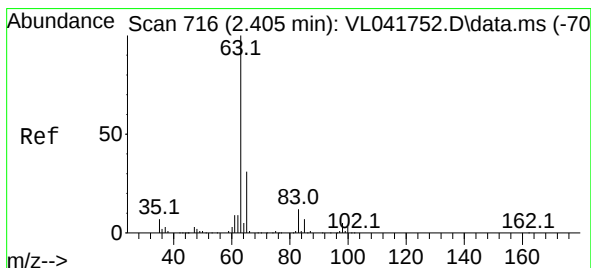
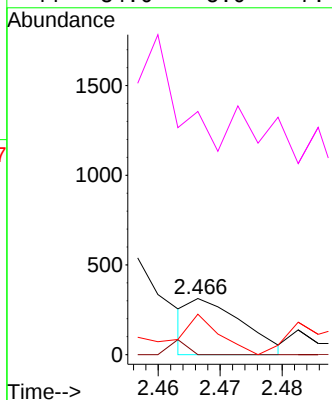
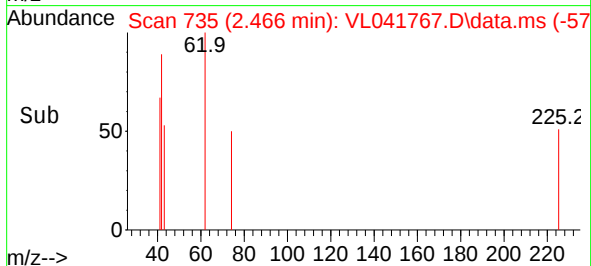


#23
 Vinyl Acetate
 Concen: 0.036 ppbv
 RT: 2.466 min Scan# 719
 Delta R.T. 0.009 min
 Lab File: VL041767.D
 Acq: 16 Dec 2024 23:55

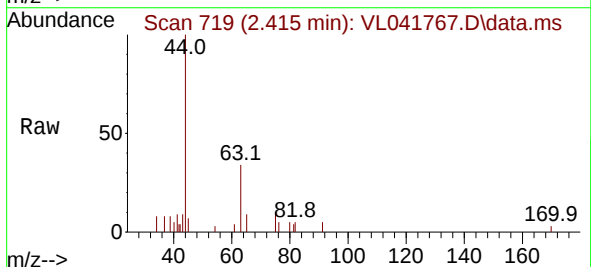
Instrument :
 MSVOA_1
 ClientSampleId :



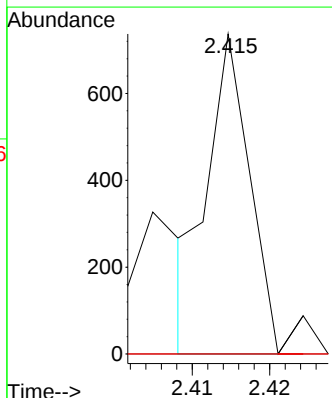
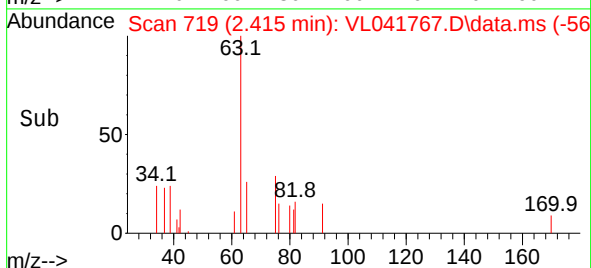
Tgt Ion:	43	Resp:	185
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.6	10.0#
42	66.5	8.2	12.2#
44	34.6	5.0	7.4#

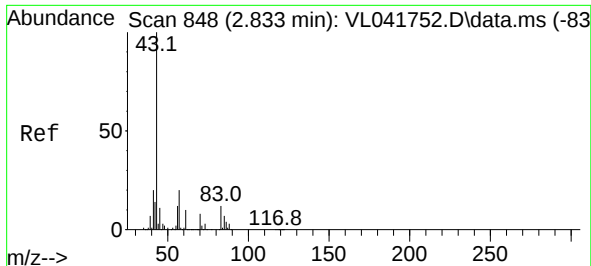


#24
 1,1-Dichloroethane
 Concen: 0.035 ppbv
 RT: 2.415 min Scan# 719
 Delta R.T. 0.009 min
 Lab File: VL041767.D
 Acq: 16 Dec 2024 23:55



Tgt Ion:	63	Resp:	274
Ion	Ratio	Lower	Upper
63	100		
98	0.0	2.3	6.8#
100	0.0	1.4	4.2#





#25

Ethyl Acetate

Concen: 0.021 ppbv

RT: 2.842 min Scan# 849

Delta R.T. 0.009 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion: 43 Resp: 429

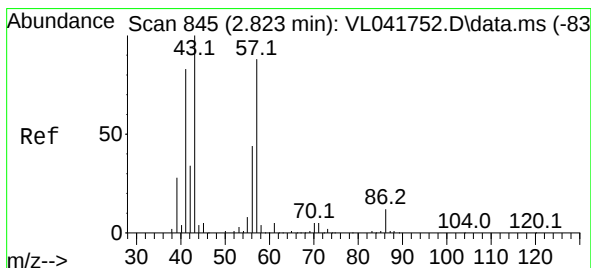
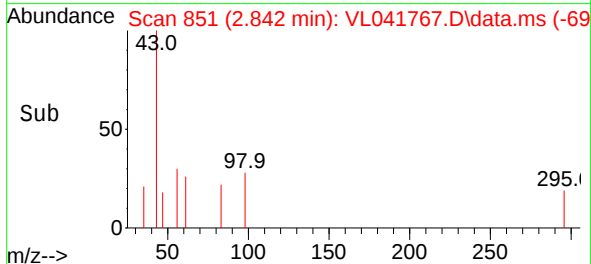
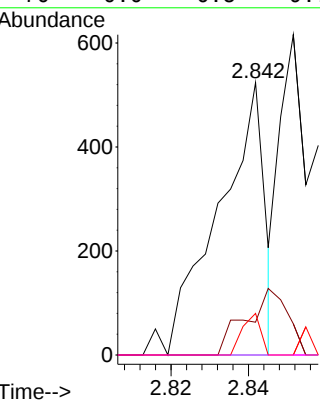
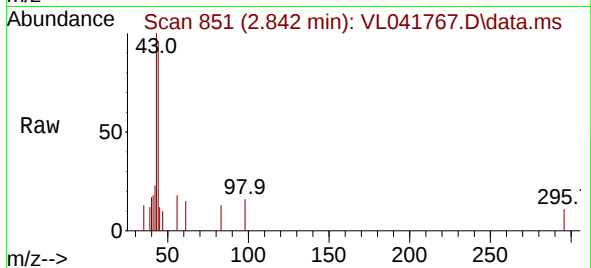
Ion Ratio Lower Upper

43 100

45 24.7 8.1 12.1#

61 8.6 7.0 10.6

70 0.0 6.5 9.7#



#26

Hexane

Concen: 0.011 ppbv

RT: 2.829 min Scan# 847

Delta R.T. 0.006 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Tgt Ion: 57 Resp: 89

Ion Ratio Lower Upper

57 100

41 455.1 79.6 119.4#



#27

Carbon Disulfide

Concen: 0.032 ppbv

RT: 2.159 min Scan# 640

Delta R.T. 0.009 min

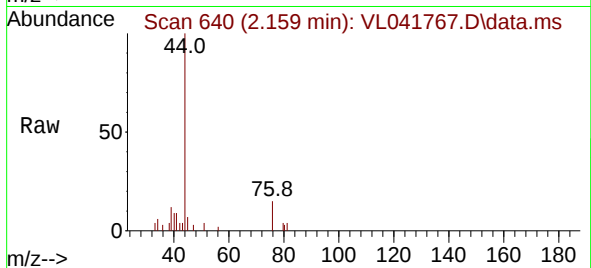
Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

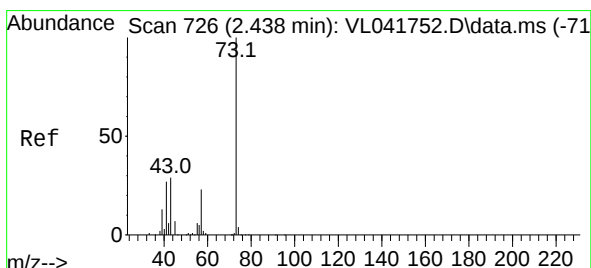
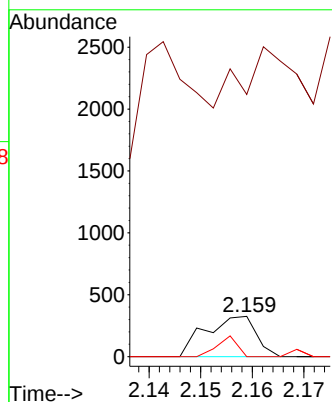
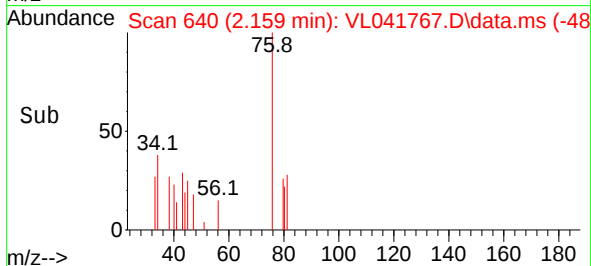
Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 76	Resp:	222
Ion Ratio	Lower	Upper
76	100	
44	1342.8	17.6 26.4#
78	25.2	10.2 15.4#



#28

Methyl tert-Butyl Ether

Concen: 0.032 ppbv

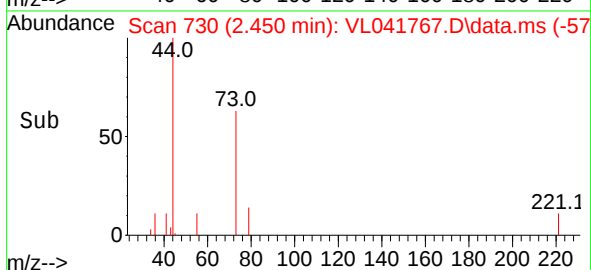
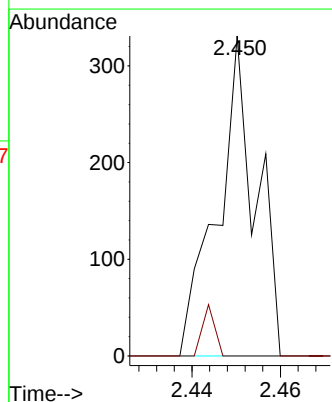
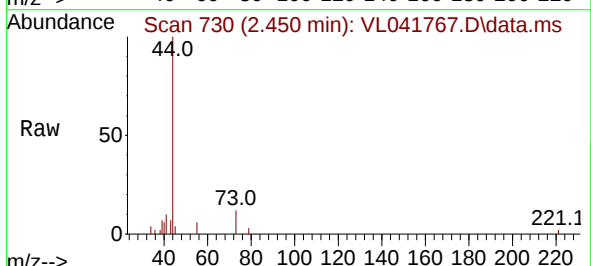
RT: 2.450 min Scan# 730

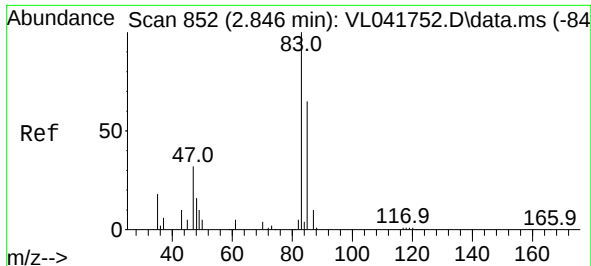
Delta R.T. 0.012 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Tgt Ion: 73	Resp:	199
Ion Ratio	Lower	Upper
73	100	
57	15.1	17.6 26.4#





#29

Chloroform

Concen: 0.040 ppbv

RT: 2.855 min Scan# 80

Delta R.T. 0.009 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

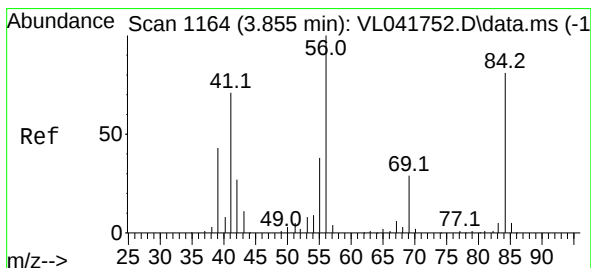
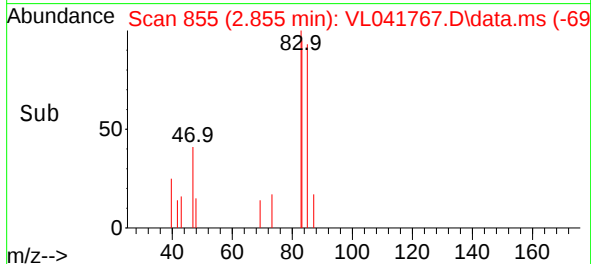
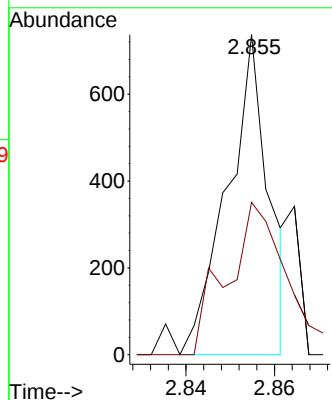
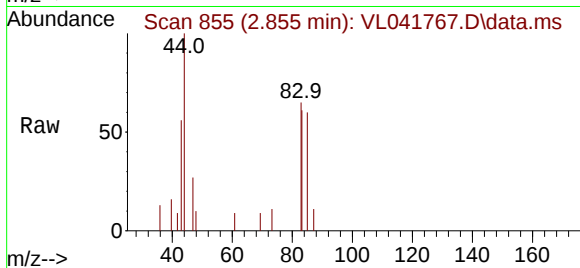
ClientSampleId :

Tgt Ion: 83 Resp: 477

Ion Ratio Lower Upper

83 100

85 47.6 51.8 77.6#



#30

Cyclohexane

Concen: 0.027 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.009 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

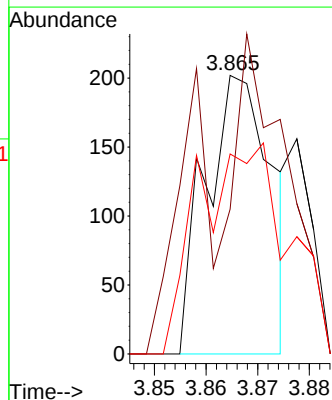
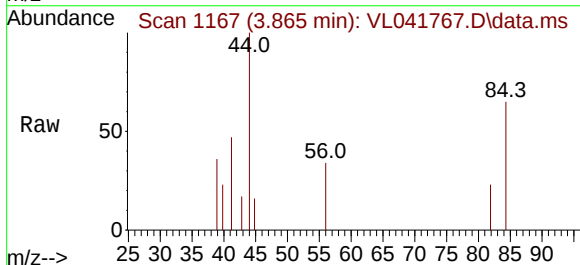
Tgt Ion: 84 Resp: 179

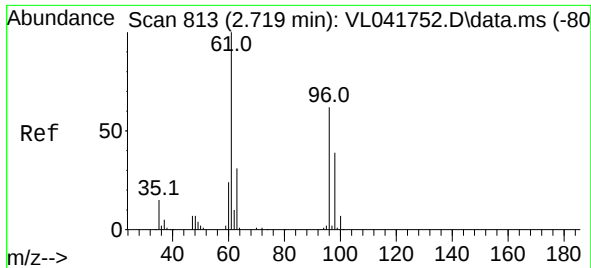
Ion Ratio Lower Upper

84 100

56 140.8 102.3 153.5

41 102.8 74.0 111.0





#31

cis-1,2-Dichloroethene

Concen: 0.017 ppbv

RT: 2.729 min Scan# 81

Delta R.T. 0.009 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

ClientSampleId :

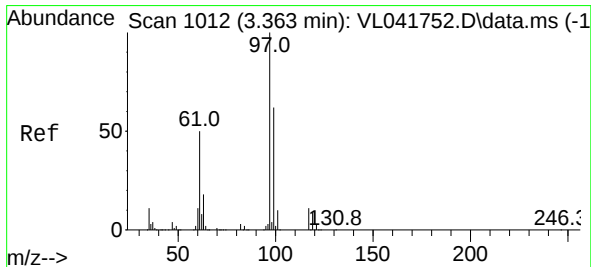
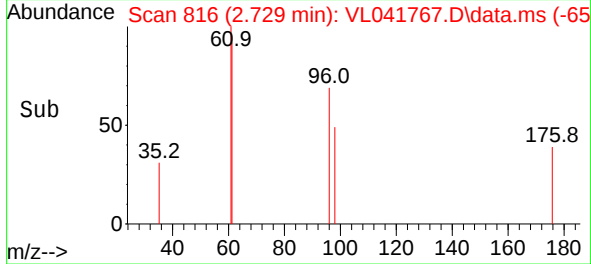
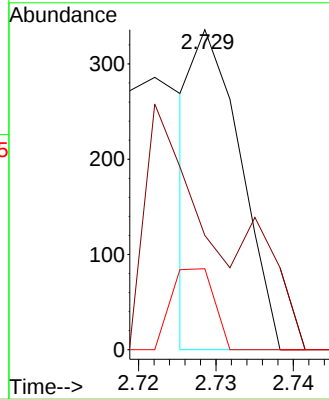
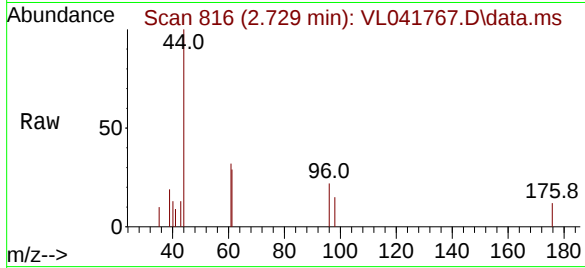
Tgt Ion: 61 Resp: 140

Ion Ratio Lower Upper

61 100

96 10.1 49.7 74.5#

98 25.3 30.8 46.2#



#32

1,1,1-Trichloroethane

Concen: 0.030 ppbv

RT: 3.376 min Scan# 1016

Delta R.T. 0.012 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

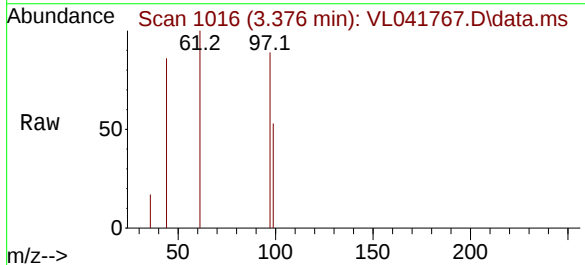
Tgt Ion: 97 Resp: 355

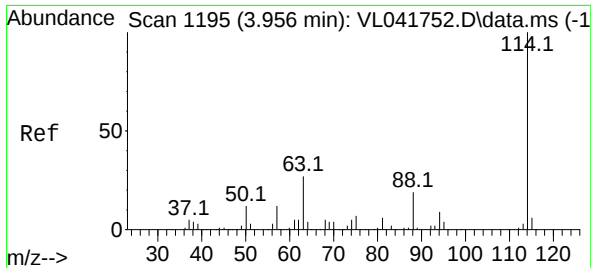
Ion Ratio Lower Upper

97 100

99 76.1 51.0 76.4

61 39.4 42.2 63.2#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1195

Delta R.T. 0.012 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

ClientSampleId :

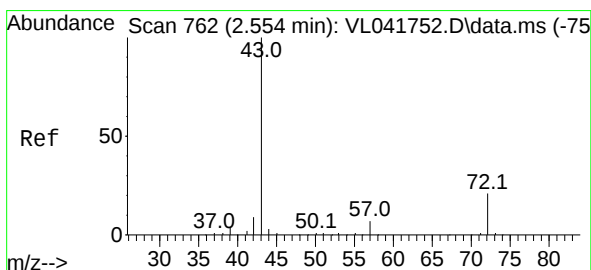
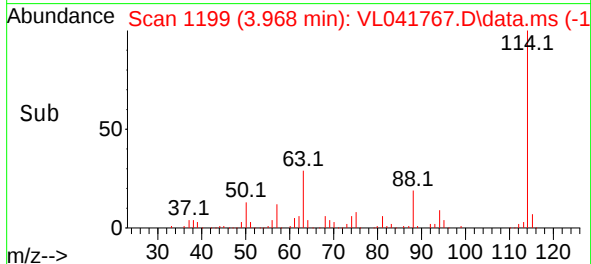
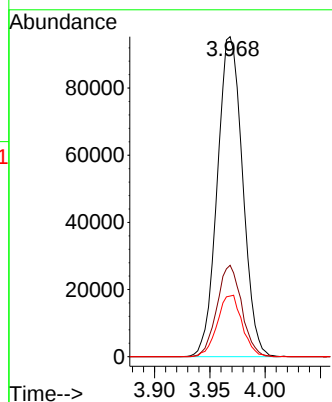
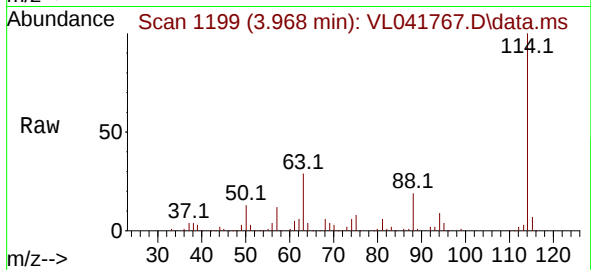
Tgt Ion:114 Resp: 151595

Ion Ratio Lower Upper

114 100

63 28.0 21.8 32.8

88 18.9 14.8 22.2



#34

2-Butanone

Concen: 0.031 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.012 min

Lab File: VL041767.D

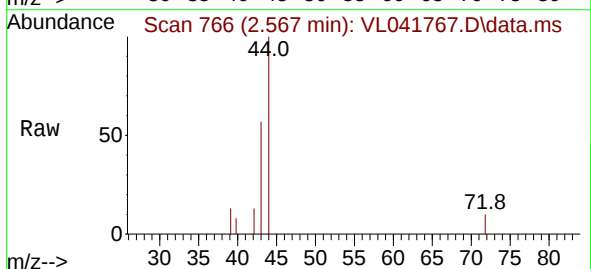
Acq: 16 Dec 2024 23:55

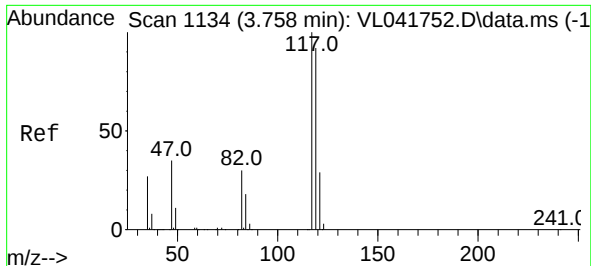
Tgt Ion: 43 Resp: 382

Ion Ratio Lower Upper

43 100

72 7.3 16.8 25.2#





#35

Carbon Tetrachloride

Concen: 0.010 ppbv

RT: 3.768 min Scan# 1134

Delta R.T. 0.009 min

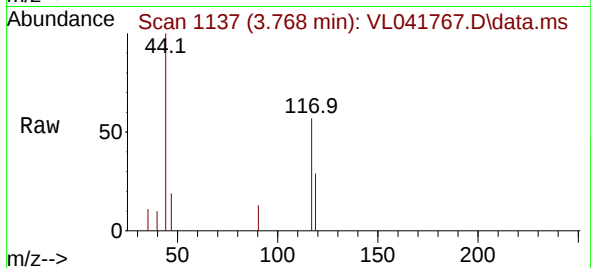
Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

ClientSampleId :



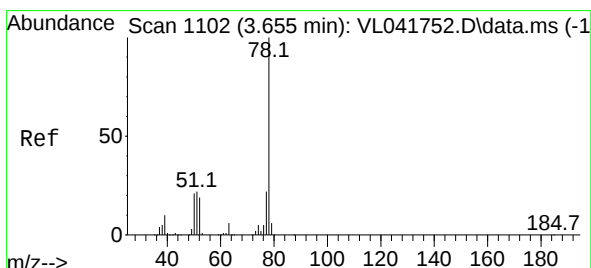
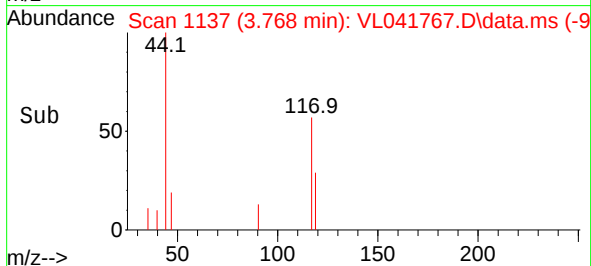
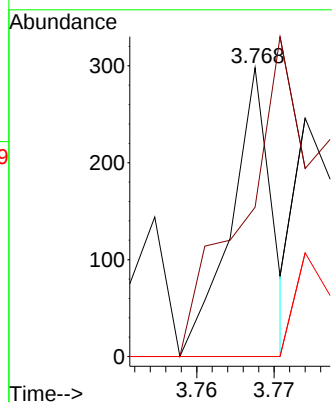
Tgt Ion:117 Resp: 109

Ion Ratio Lower Upper

117 100

119 51.7 73.7 110.5#

121 0.0 23.0 34.4#



#36

Benzene

Concen: 0.047 ppbv

RT: 3.667 min Scan# 1106

Delta R.T. 0.012 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

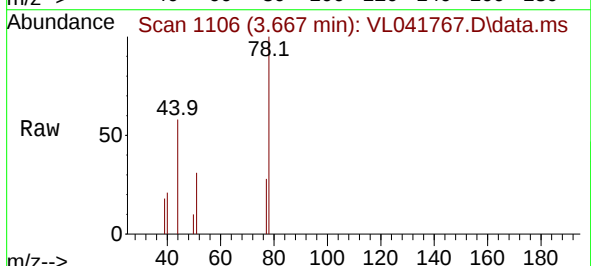
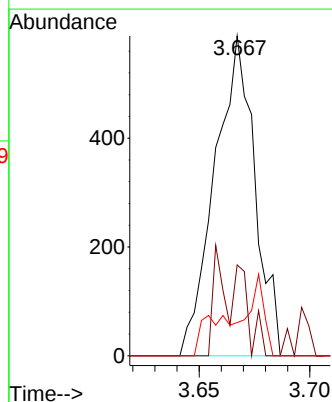
Tgt Ion: 78 Resp: 739

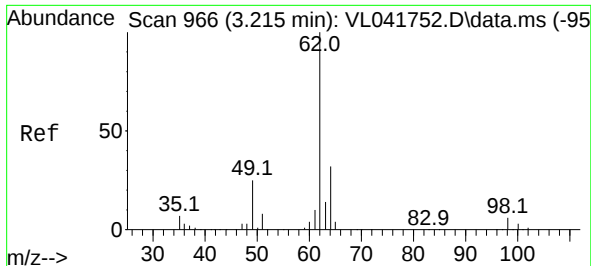
Ion Ratio Lower Upper

78 100

77 28.4 17.8 26.6#

50 10.4 17.2 25.8#





#37

1,2-Dichloroethane

Concen: 0.035 ppbv

RT: 3.224 min Scan# 9

Delta R.T. 0.009 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

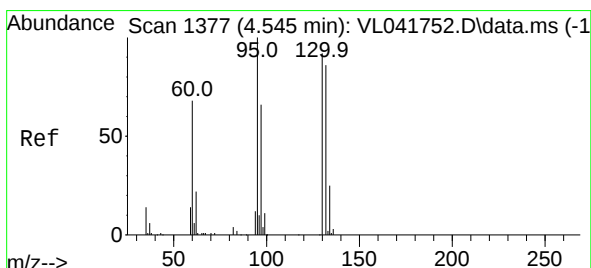
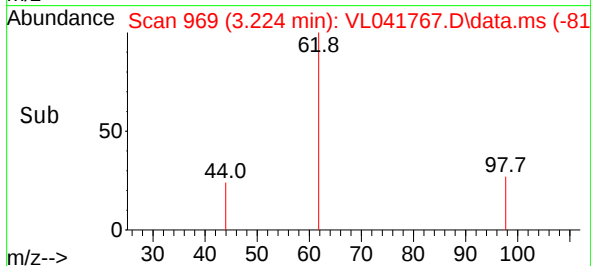
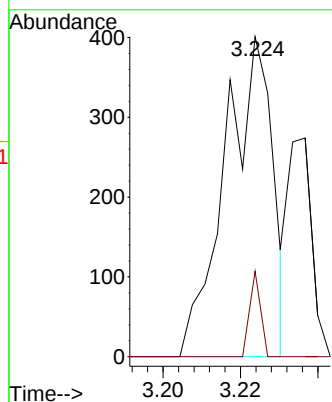
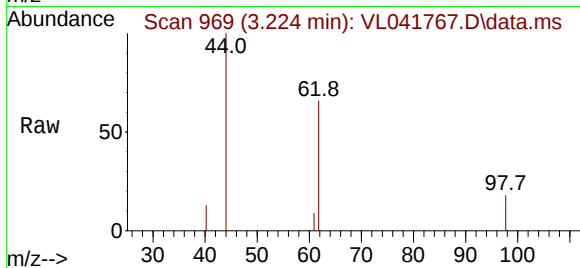
ClientSampleId :

Tgt Ion: 62 Resp: 341

Ion Ratio Lower Upper

62 100

98 0.0 4.7 7.1#



#38

Trichloroethene

Concen: 0.010 ppbv

RT: 4.564 min Scan# 1383

Delta R.T. 0.019 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Tgt Ion:130 Resp: 66

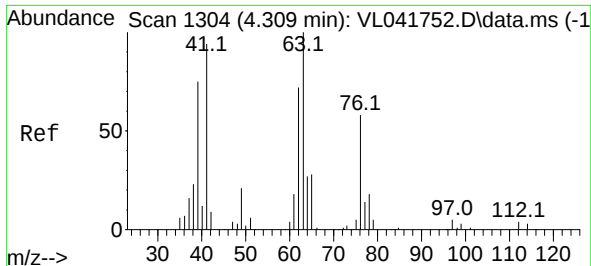
Ion Ratio Lower Upper

130 100

95 0.0 87.0 130.6#

132 18.6 75.0 112.6#

97 50.8 57.2 8



#39

1,2-Dichloropropane

Concen: 7.472 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. -0.340 min

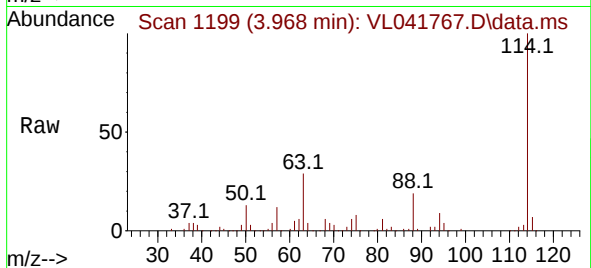
Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

ClientSampleId :



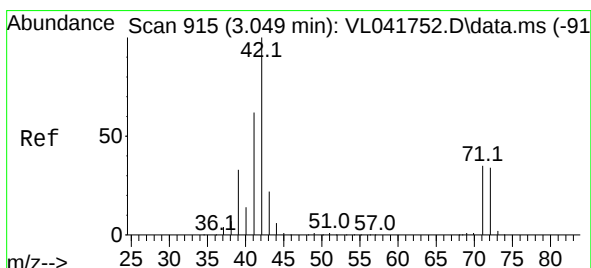
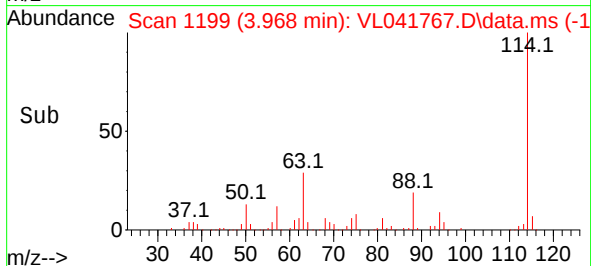
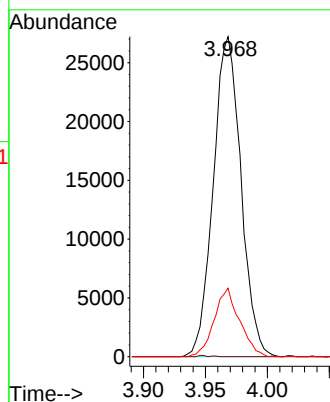
Tgt Ion: 63 Resp: 42377

Ion Ratio Lower Upper

63 100

41 0.0 75.3 112.9#

62 21.4 57.3 85.9#



#41

Tetrahydrofuran

Concen: 0.022 ppbv

RT: 3.081 min Scan# 925

Delta R.T. 0.032 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

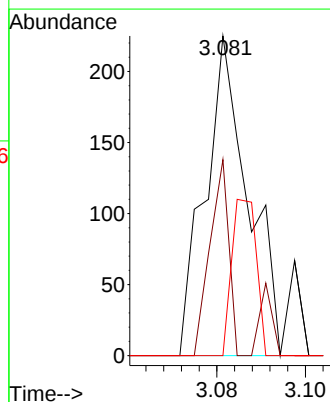
Tgt Ion: 42 Resp: 152

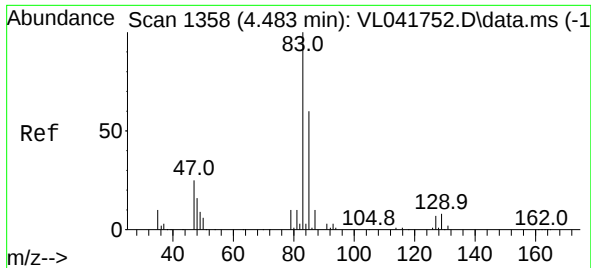
Ion Ratio Lower Upper

42 100

72 33.6 29.1 43.7

71 0.0 28.4 42.6#

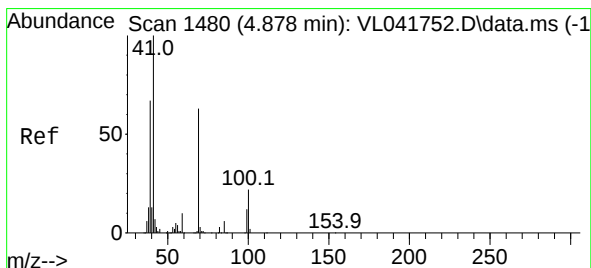
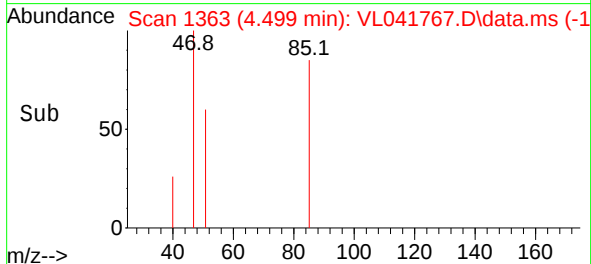
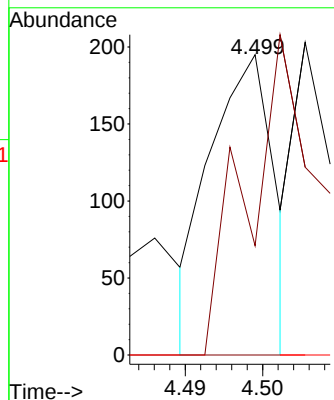
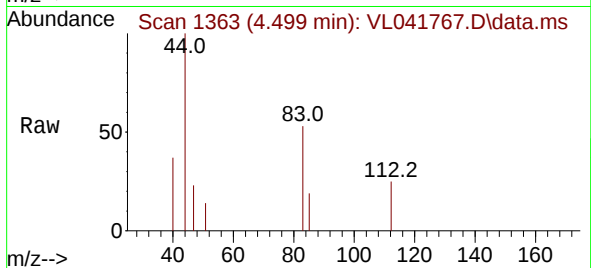




#42
Bromodichloromethane
Concen: 0.010 ppbv
RT: 4.499 min Scan# 1485
Delta R.T. 0.016 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

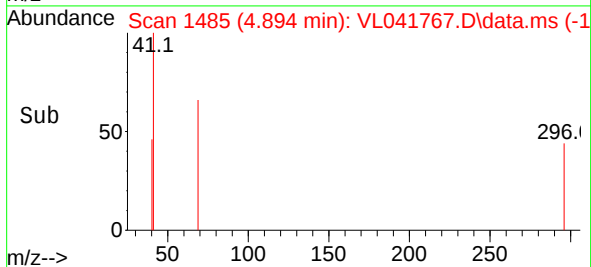
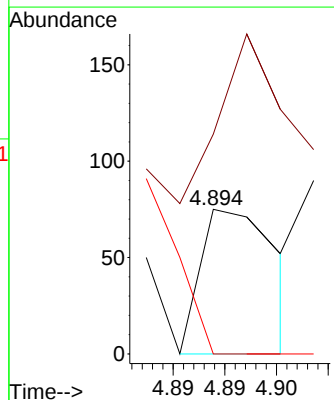
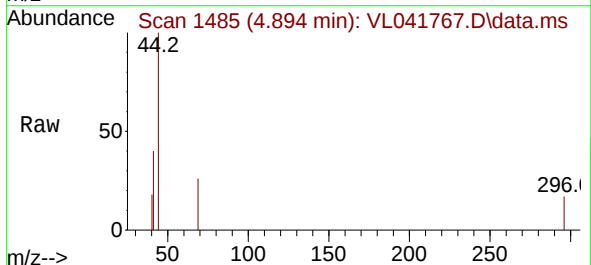
Instrument :
MSVOA_L
ClientSampleId :

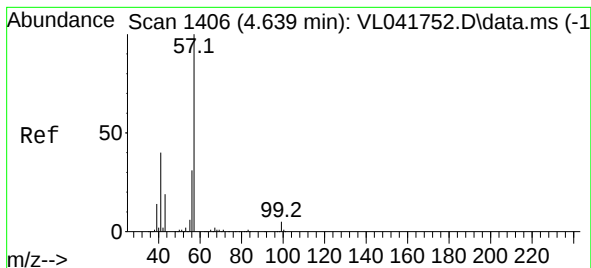
Tgt Ion: 83 Resp: 112
Ion Ratio Lower Upper
83 100
85 51.4 48.0 72.0
127 0.0 5.8 8.8#



#43
Methyl Methacrylate
Concen: 0.006 ppbv
RT: 4.894 min Scan# 1485
Delta R.T. 0.016 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

Tgt Ion: 69 Resp: 38
Ion Ratio Lower Upper
69 100
41 723.7 130.3 195.5#
100 0.0 28.3 42.5#





#44

2,2,4-Trimethylpentane

Concen: 0.015 ppbv

RT: 4.651 min Scan# 1406

Delta R.T. 0.012 min

Lab File: VL041767.D

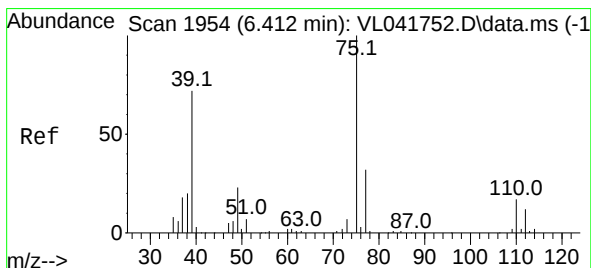
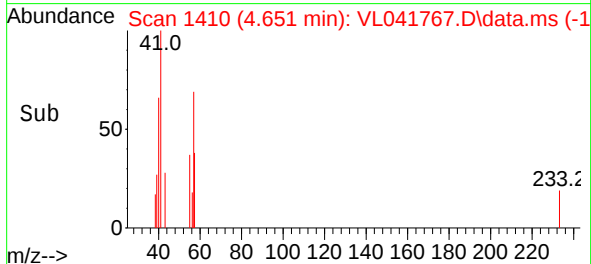
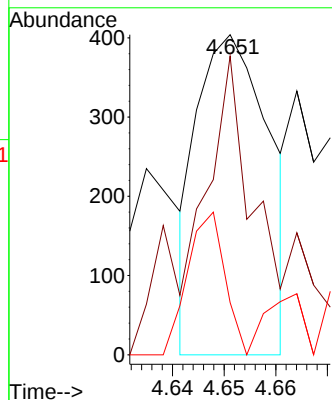
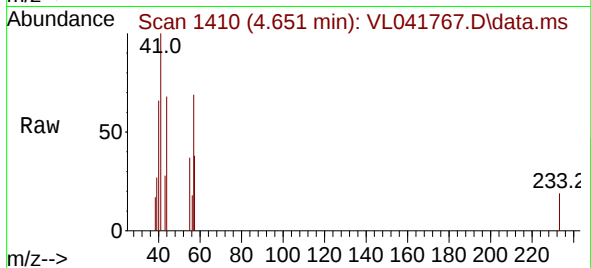
Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	57	Resp:	390
Ion	Ratio	Lower	Upper
57	100		
41	123.1	30.7	46.1#
56	32.8	25.4	38.0



#45

t-1,3-Dichloropropene

Concen: 0.008 ppbv

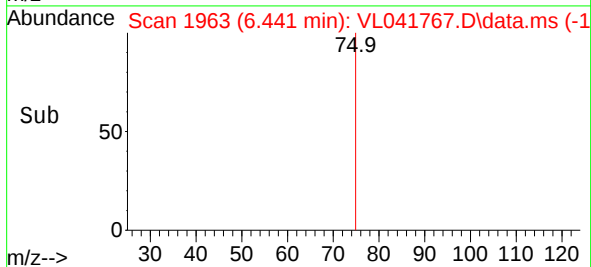
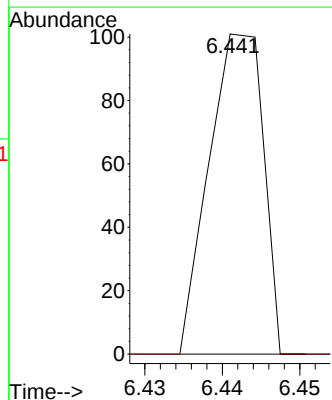
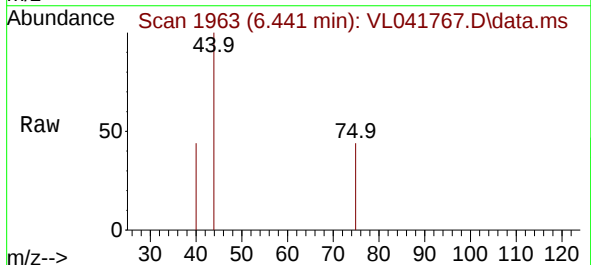
RT: 6.441 min Scan# 1963

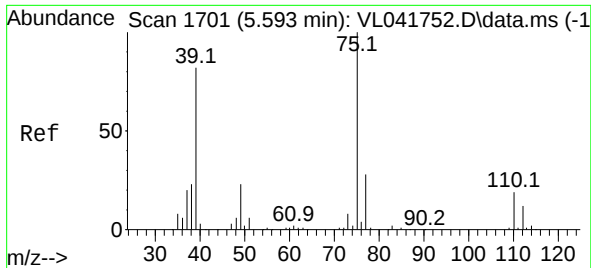
Delta R.T. 0.029 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

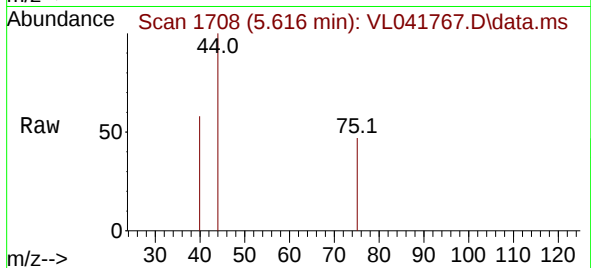
Tgt Ion:	75	Resp:	49
Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.9	38.9#



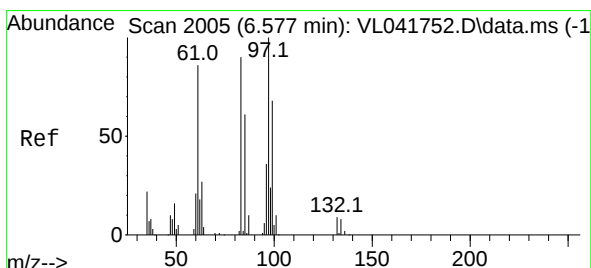
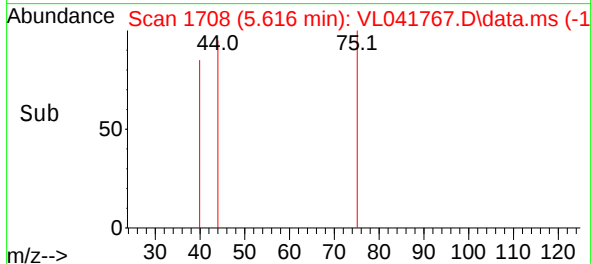
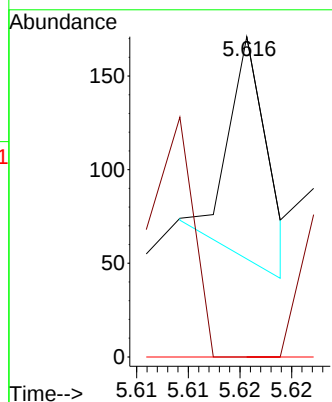


#46
 cis-1,3-Dichloropropene
 Concen: 0.004 ppbv
 RT: 5.616 min Scan# 11
 Delta R.T. 0.022 min
 Lab File: VL041767.D
 Acq: 16 Dec 2024 23:55

Instrument :
 MSVOA_L
 ClientSampleId :

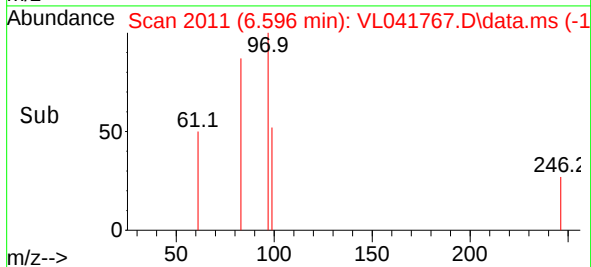
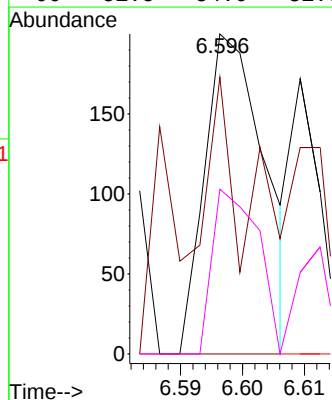
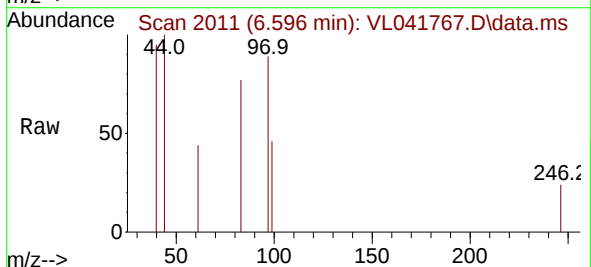


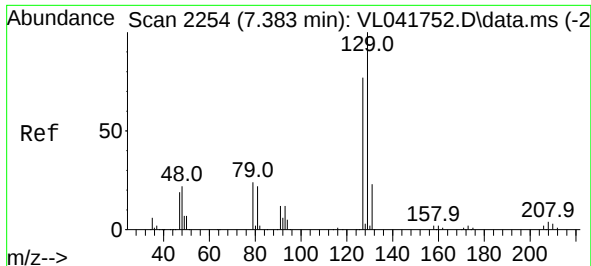
Tgt Ion: 75 Resp: 29
 Ion Ratio Lower Upper
 75 100
 39 0.0 65.2 97.8#
 77 0.0 22.0 33.0#



#47
 1,1,2-Trichloroethane
 Concen: 0.023 ppbv
 RT: 6.596 min Scan# 2011
 Delta R.T. 0.019 min
 Lab File: VL041767.D
 Acq: 16 Dec 2024 23:55

Tgt Ion: 97 Resp: 135
 Ion Ratio Lower Upper
 97 100
 83 57.5 72.3 108.5#
 85 0.0 48.5 72.7#
 99 51.5 54.0 81.0#





#48

Dibromochloromethane

Concen: 0.006 ppbv

RT: 7.402 min Scan# 21

Delta R.T. 0.019 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

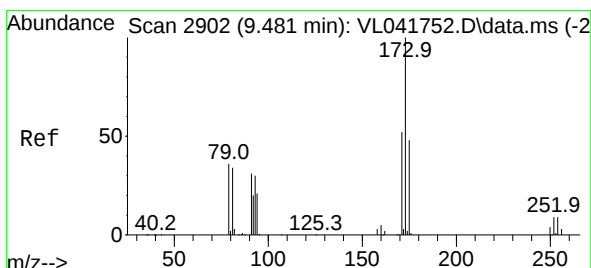
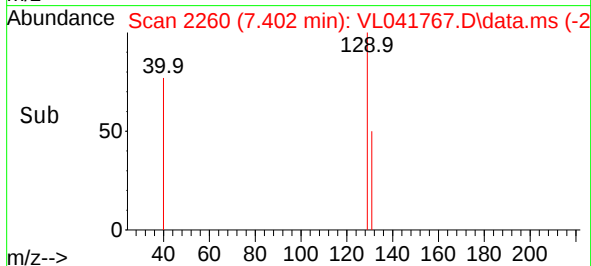
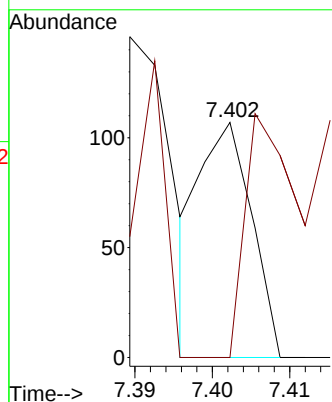
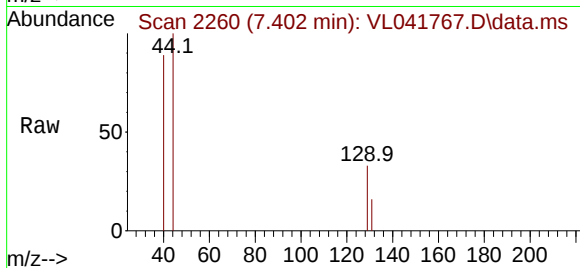
ClientSampleId :

Tgt Ion:129 Resp: 50

Ion Ratio Lower Upper

129 100

127 0.0 38.8 116.3#



#49

Bromoform

Concen: 0.021 ppbv

RT: 9.493 min Scan# 2906

Delta R.T. 0.012 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

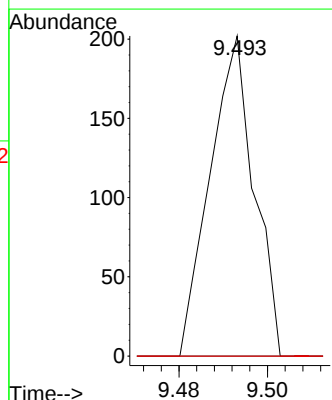
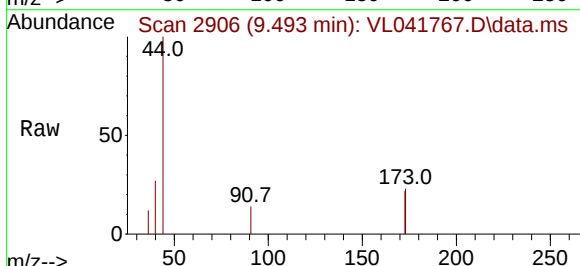
Tgt Ion:173 Resp: 139

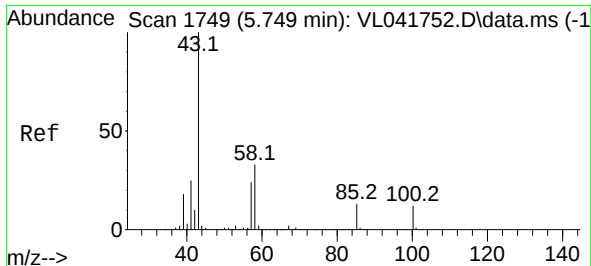
Ion Ratio Lower Upper

173 100

175 0.0 38.2 57.2#

171 0.0 41.1 61.7#





#50

4-Methyl-2-Pentanone

Concen: 0.003 ppbv

RT: 5.781 min Scan# 1

Delta R.T. 0.032 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

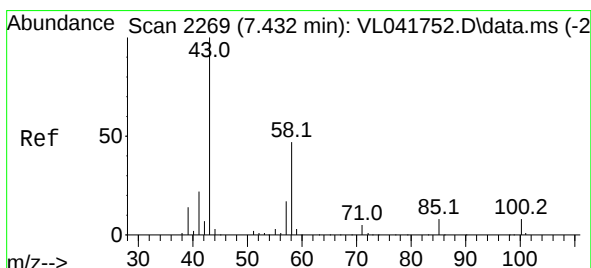
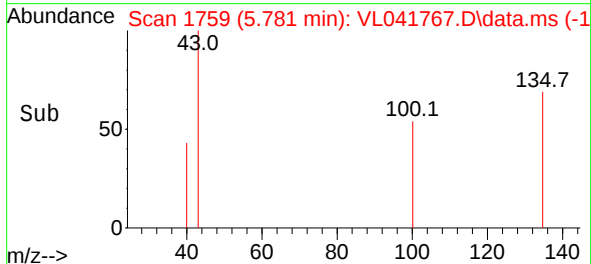
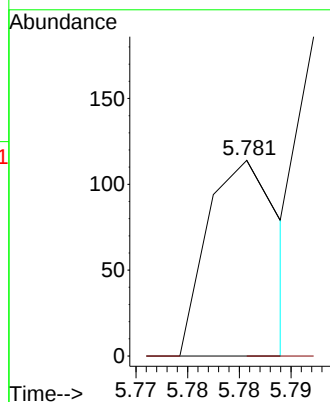
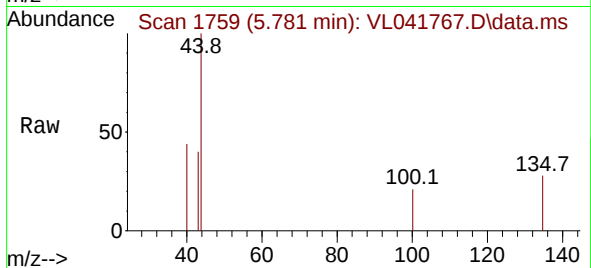
ClientSampleId :

Tgt Ion: 43 Resp: 56

Ion Ratio Lower Upper

43 100

58 0.0 26.8 40.2#



#51

2-Hexanone

Concen: 0.003 ppbv

RT: 7.451 min Scan# 2275

Delta R.T. 0.019 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

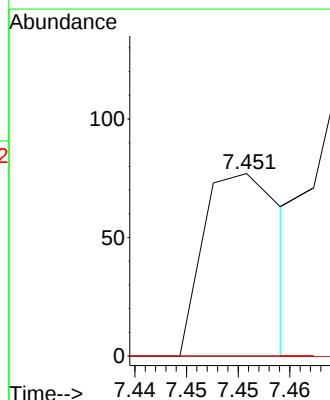
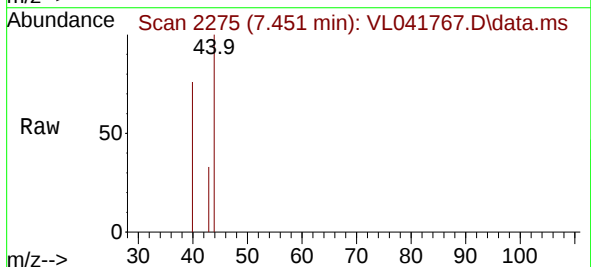
Tgt Ion: 43 Resp: 41

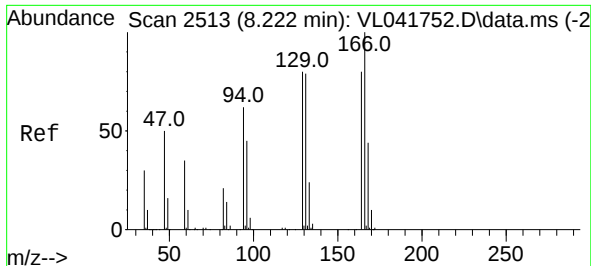
Ion Ratio Lower Upper

43 100

58 0.0 36.6 55.0#

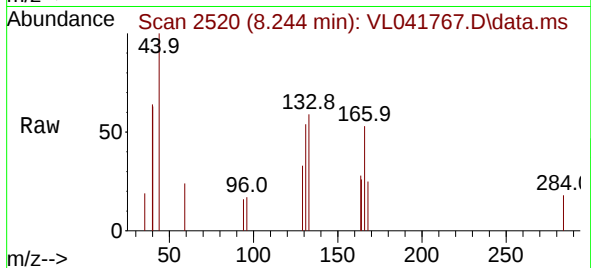
98 0.0 0.1 0.1#



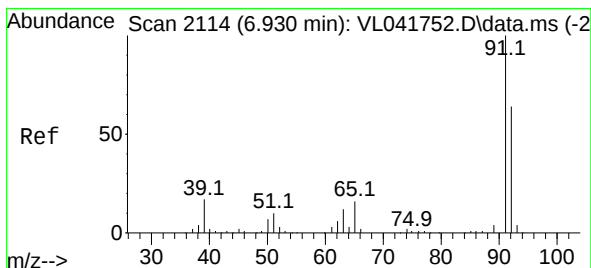
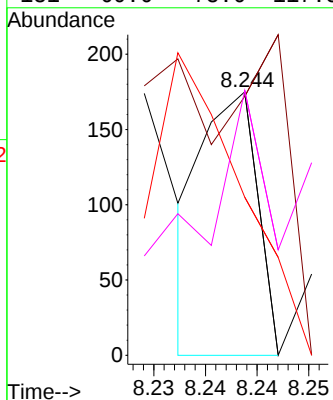
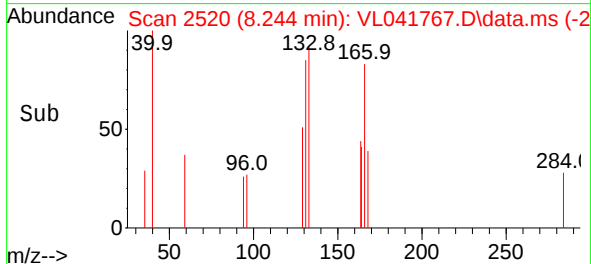


#52
Tetrachloroethene
Concen: 0.011 ppbv
RT: 8.244 min Scan# 2121
Delta R.T. 0.022 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

Instrument :
MSVOA_L
ClientSampleId :

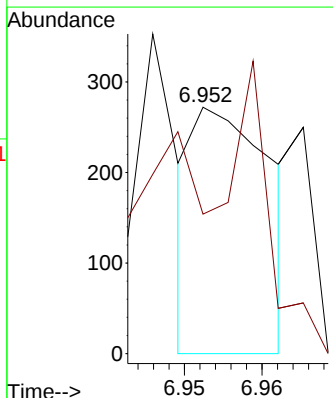
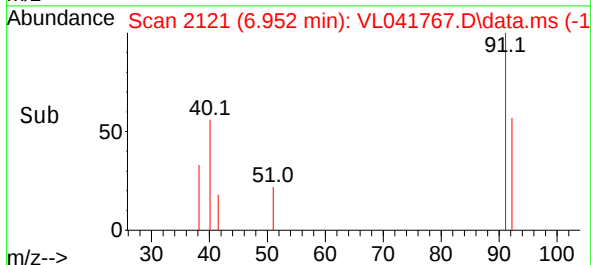
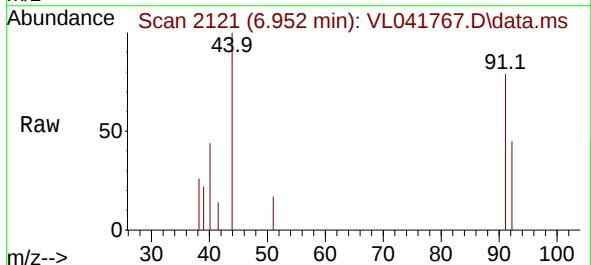


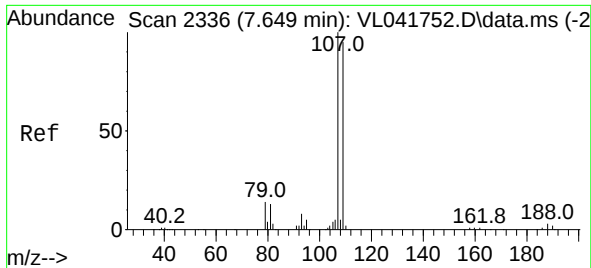
Tgt Ion:	164	Resp:	64
Ion	Ratio	Lower	Upper
164	100		
166	0.0	99.8	149.6#
129	22.9	79.6	119.4#
131	60.6	78.6	117.8#



#53
Toluene
Concen: 0.011 ppbv
RT: 6.952 min Scan# 2121
Delta R.T. 0.022 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

Tgt Ion:	91	Resp:	188
Ion	Ratio	Lower	Upper
91	100		
92	217.6	47.9	71.9#

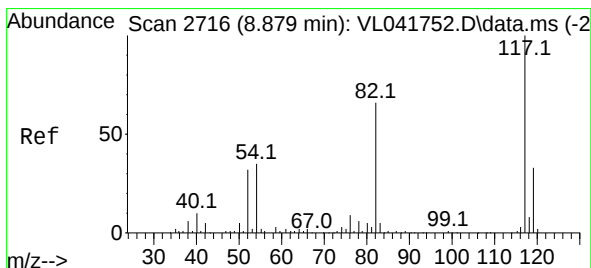
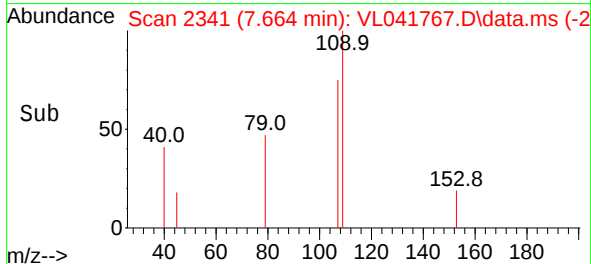
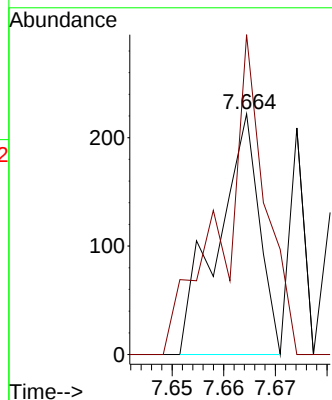
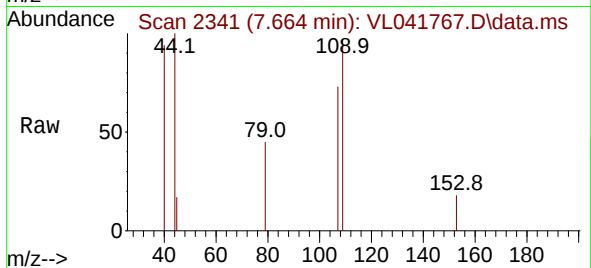




#54
1,2-Dibromoethane
Concen: 0.015 ppbv
RT: 7.664 min Scan# 21
Delta R.T. 0.016 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

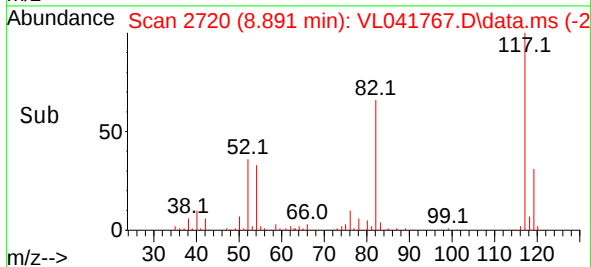
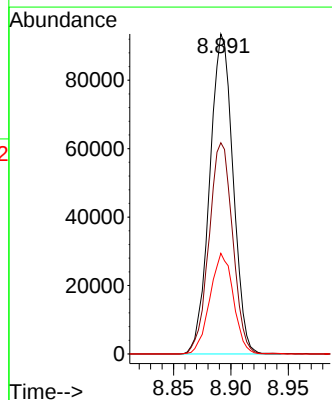
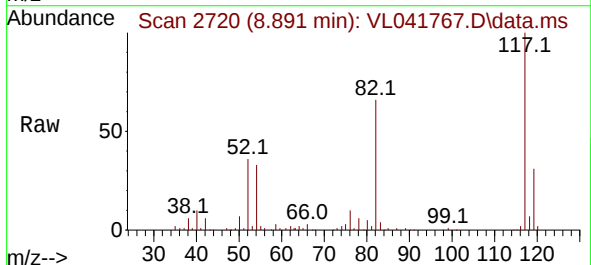
Instrument :
MSVOA_L
ClientSampleId :

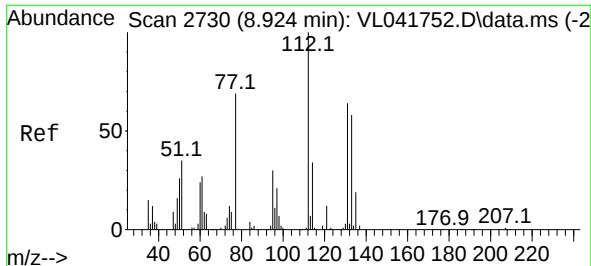
Tgt Ion:107 Resp: 124
Ion Ratio Lower Upper
107 100
109 101.8 75.9 113.9



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.891 min Scan# 2720
Delta R.T. 0.012 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

Tgt Ion:117 Resp: 132362
Ion Ratio Lower Upper
117 100
82 66.7 53.8 80.8
119 31.7 26.7 40.1





#56

1,1,1,2-Tetrachloroethane

Concen: 0.010 ppbv

RT: 8.943 min Scan# 21

Delta R.T. 0.019 min

Lab File: VL041767.D

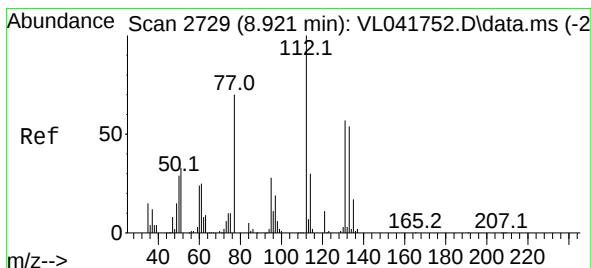
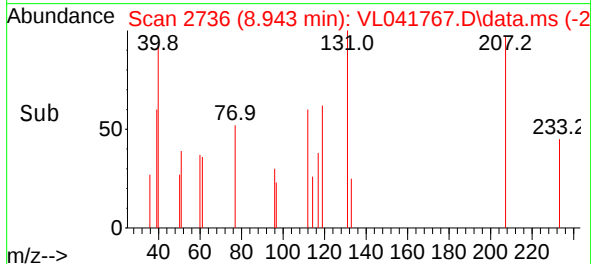
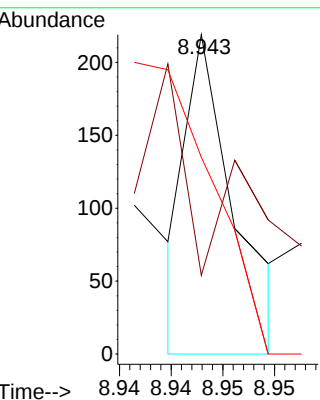
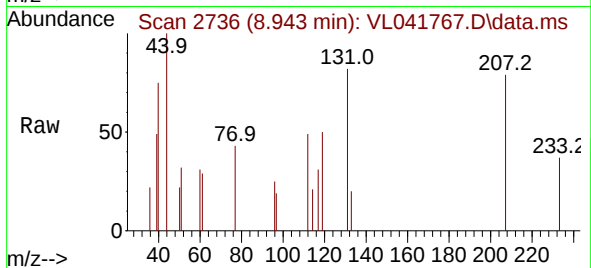
Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:131	Resp:	71
Ion Ratio	Lower	Upper
131	100	
133	0.0	76.8 115.2#
119	0.0	49.0 73.6#



#57

Chlorobenzene

Concen: 0.014 ppbv

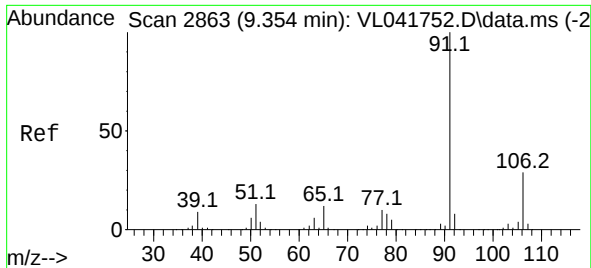
RT: 8.933 min Scan# 2733

Delta R.T. 0.012 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Tgt Ion:112	Resp:	183
Ion Ratio	Lower	Upper
112	100	
77	30.1	57.4 86.0#
114	73.7	27.4 33.4#



#58

Ethyl Benzene

Concen: 0.028 ppbv

RT: 9.360 min Scan# 21

Delta R.T. 0.006 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

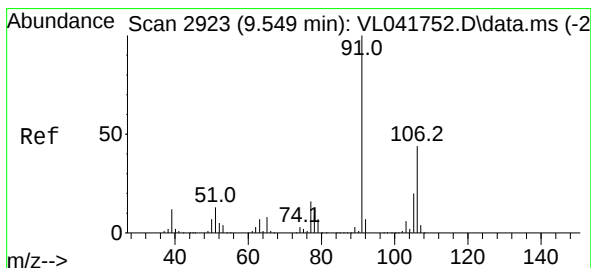
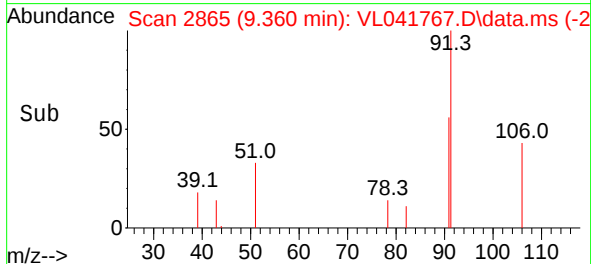
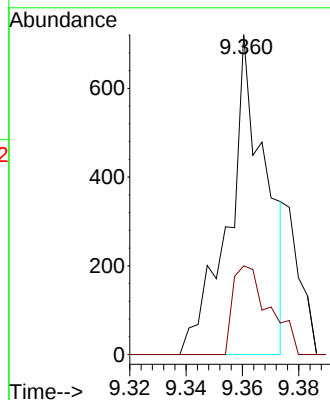
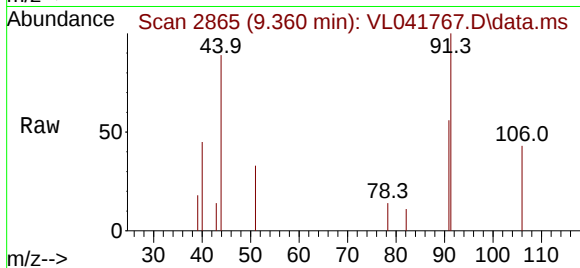
ClientSampleId :

Tgt Ion: 91 Resp: 664

Ion Ratio Lower Upper

91 100

106 27.7 23.5 35.3



#59

m/p-Xylene

Concen: 0.025 ppbv

RT: 9.561 min Scan# 2927

Delta R.T. 0.012 min

Lab File: VL041767.D

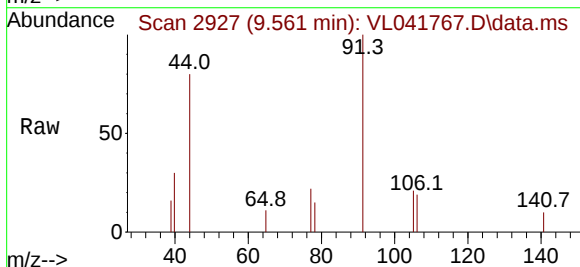
Acq: 16 Dec 2024 23:55

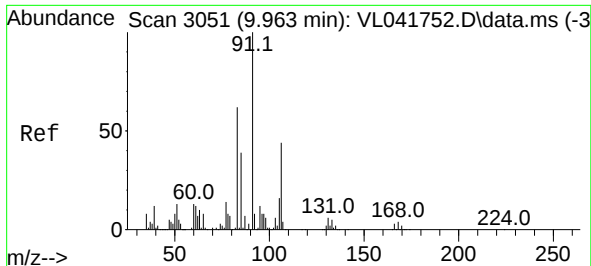
Tgt Ion: 91 Resp: 476

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0





#60

o-Xylene

Concen: 0.018 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.009 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

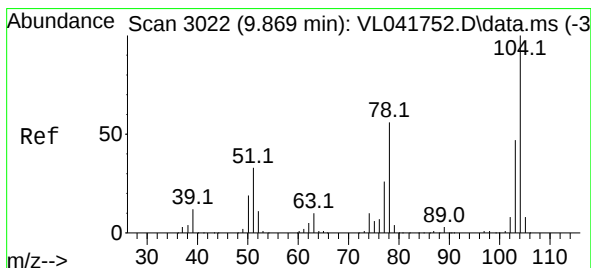
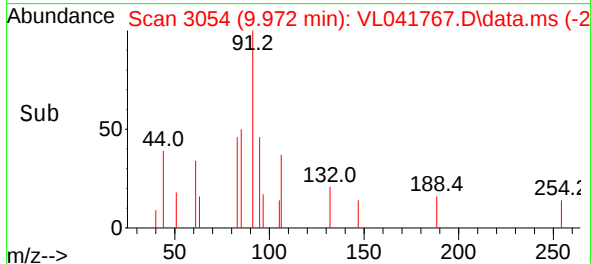
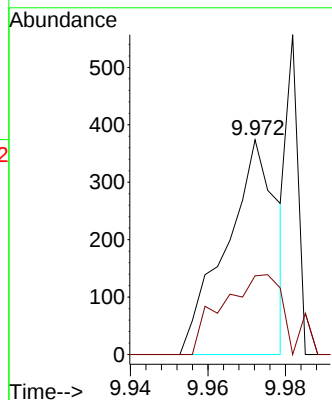
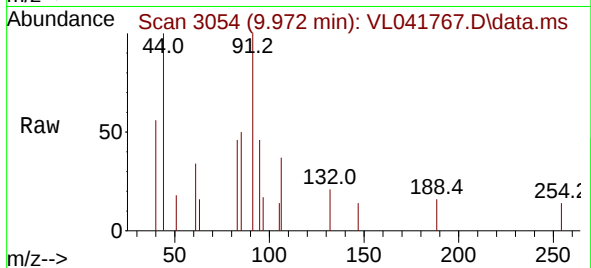
ClientSampleId :

Tgt Ion: 91 Resp: 338

Ion Ratio Lower Upper

91 100

106 47.3 21.1 63.4



#61

Styrene

Concen: 0.008 ppbv

RT: 9.882 min Scan# 3026

Delta R.T. 0.012 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

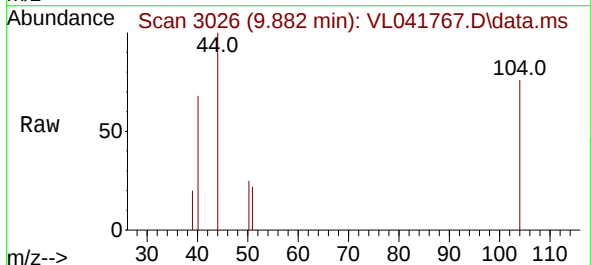
Tgt Ion: 104 Resp: 70

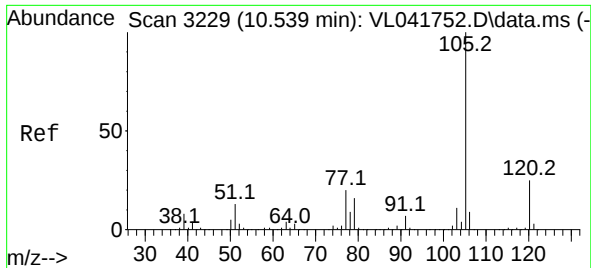
Ion Ratio Lower Upper

104 100

78 132.9 43.8 65.6#

103 47.1 37.8 56.6

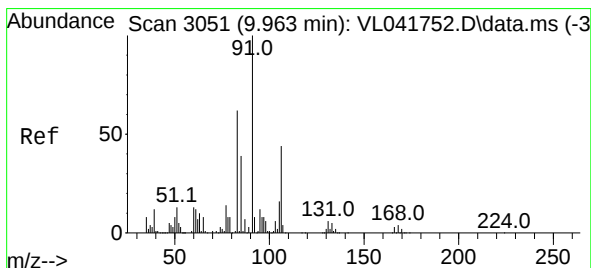
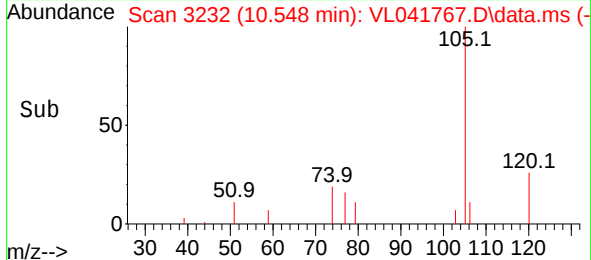
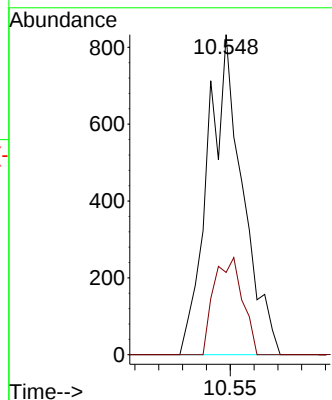
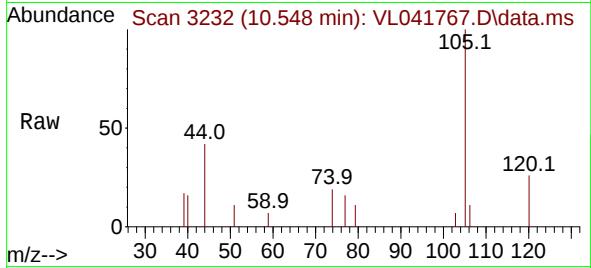




#62
Isopropylbenzene
Concen: 0.029 ppbv
RT: 10.548 min Scan# 31
Delta R.T. 0.009 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

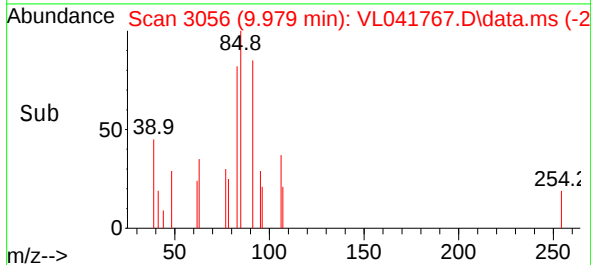
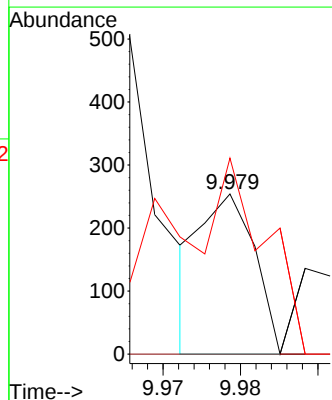
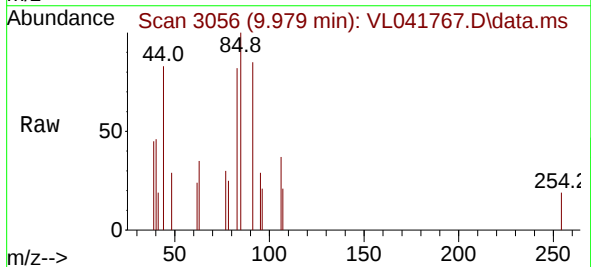
Instrument :
MSVOA_L
ClientSampleId :

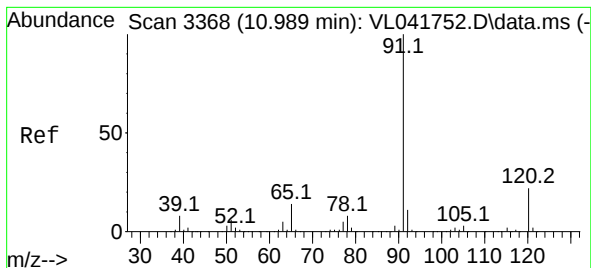
Tgt Ion:105 Resp: 845
Ion Ratio Lower Upper
105 100
120 25.0 19.8 29.8



#63
1,1,2,2-Tetrachloroethane
Concen: 0.010 ppbv
RT: 9.979 min Scan# 3056
Delta R.T. 0.016 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

Tgt Ion: 83 Resp: 123
Ion Ratio Lower Upper
83 100
131 0.0 4.9 14.7#
85 217.9 32.0 96.2#





#64

n-propylbenzene

Concen: 0.013 ppbv

RT: 11.001 min Scan# 34

Delta R.T. 0.012 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

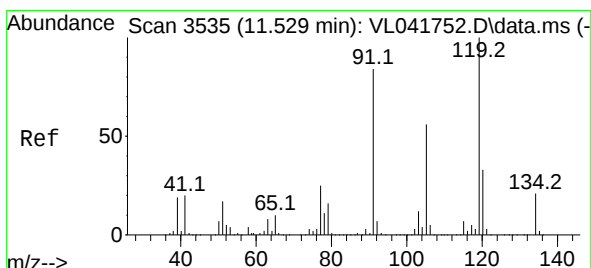
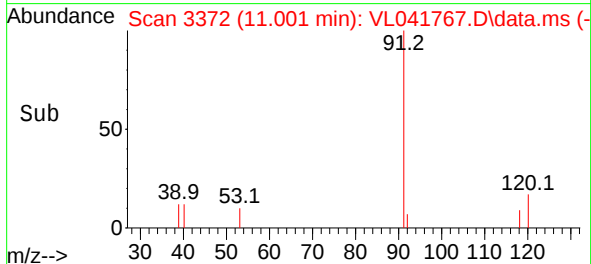
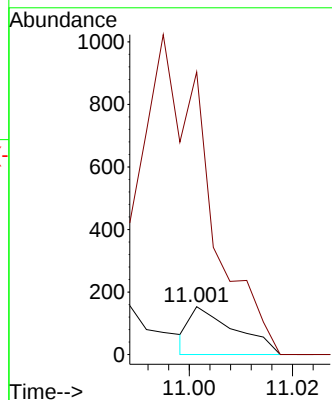
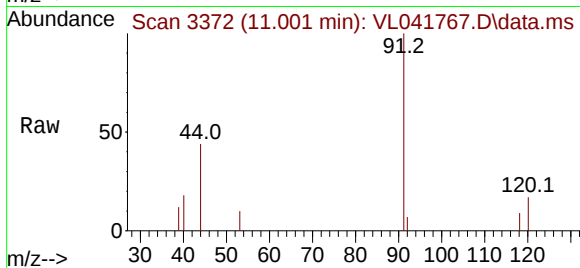
ClientSampleId :

Tgt Ion:120 Resp: 93

Ion Ratio Lower Upper

120 100

91 1026.9 387.3 580.9#



#65

tert-Butylbenzene

Concen: 0.024 ppbv

RT: 11.535 min Scan# 3537

Delta R.T. 0.006 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

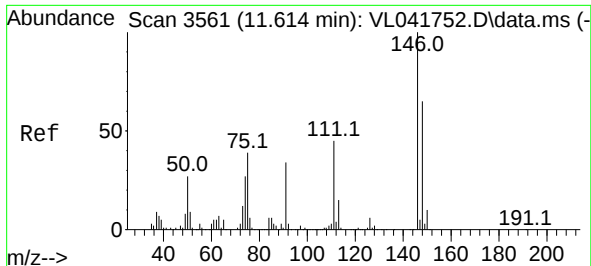
Tgt Ion:119 Resp: 631

Ion Ratio Lower Upper

119 100

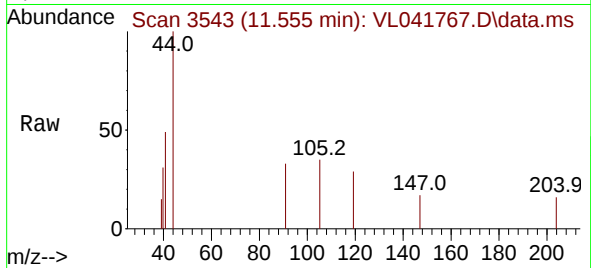
91 78.3 67.0 100.4

134 20.9 16.5 24.7

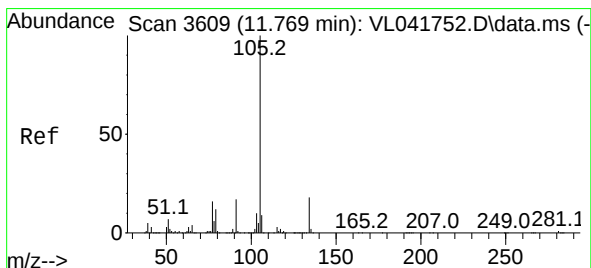
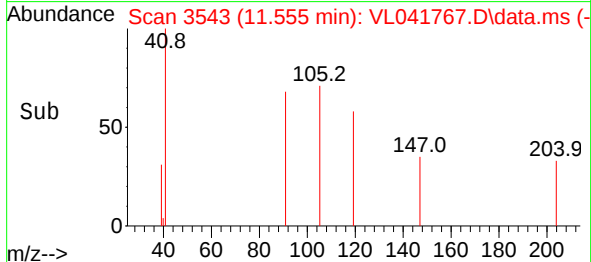
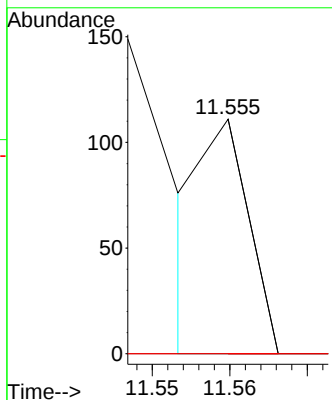


#66
Benzyl Chloride
Concen: 0.010 ppbv
RT: 11.555 min Scan# 3543
Delta R.T. -0.059 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

Instrument :
MSVOA_L
ClientSampleId :

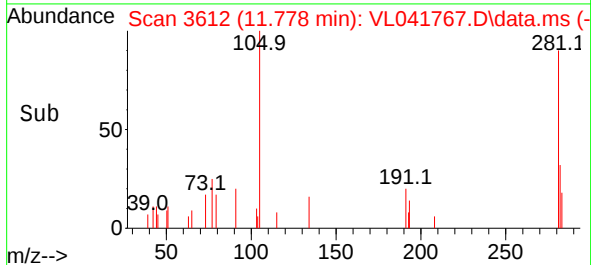
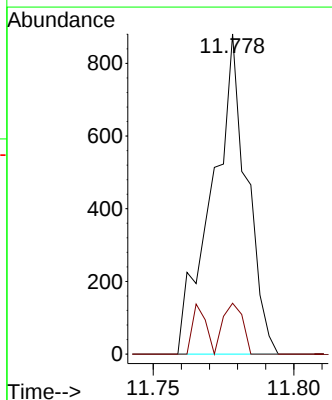
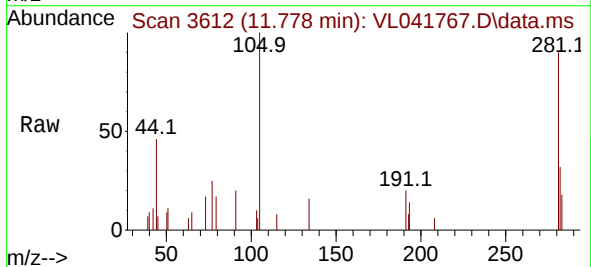


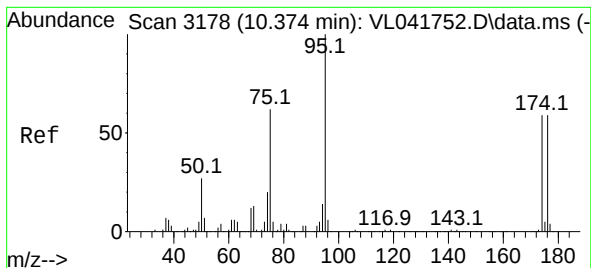
Tgt Ion: 91 Resp: 22
Ion Ratio Lower Upper
91 100
126 0.0 13.9 20.9#
128 0.0 4.4 6.6#



#67
sec-Butylbenzene
Concen: 0.021 ppbv
RT: 11.778 min Scan# 3612
Delta R.T. 0.009 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

Tgt Ion: 105 Resp: 753
Ion Ratio Lower Upper
105 100
134 15.1 14.5 21.7

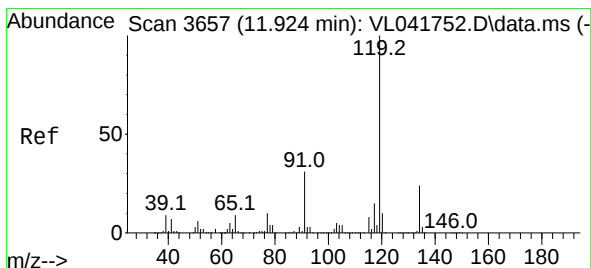
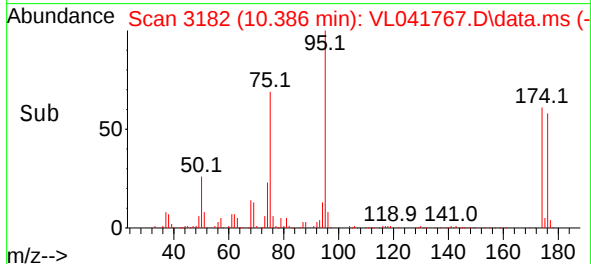
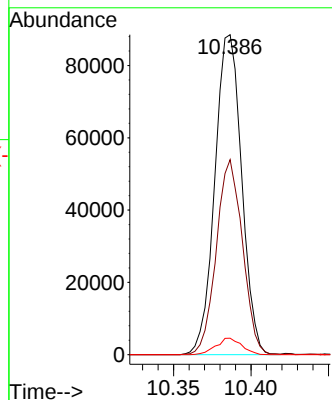
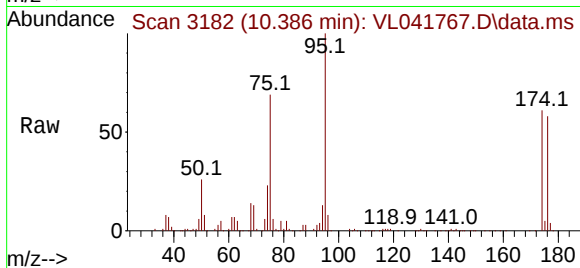




#68
1-Bromo-4-Fluorobenzene
Concen: 9.671 ppbv
RT: 10.386 min Scan# 3178
Delta R.T. 0.012 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

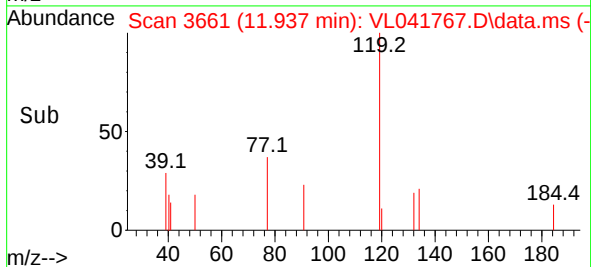
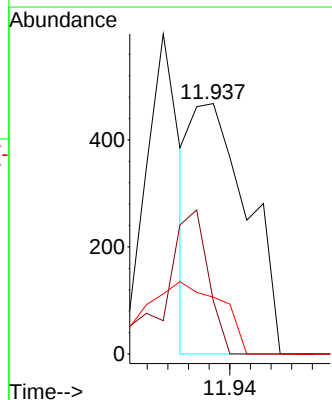
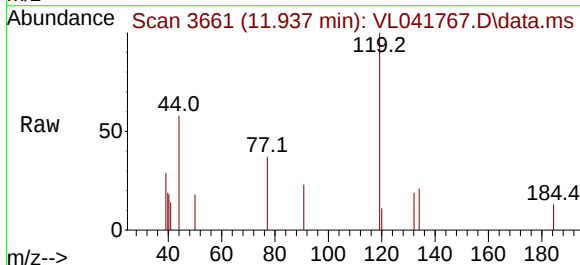
Instrument :
MSVOA_L
ClientSampleId :

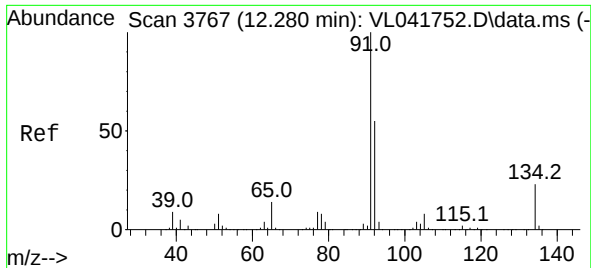
Tgt Ion: 95 Resp: 106669
Ion Ratio Lower Upper
95 100
174 59.5 47.6 71.4
175 4.9 3.7 5.5



#69
p-Isopropyltoluene
Concen: 0.012 ppbv
RT: 11.937 min Scan# 3661
Delta R.T. 0.012 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

Tgt Ion: 119 Resp: 355
Ion Ratio Lower Upper
119 100
134 43.7 19.6 29.4#
91 38.6 24.4 36.6#

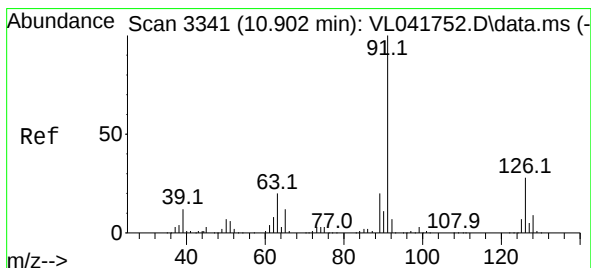
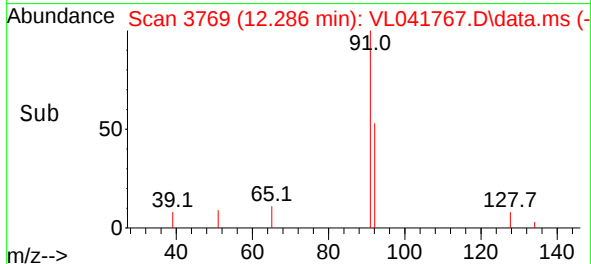
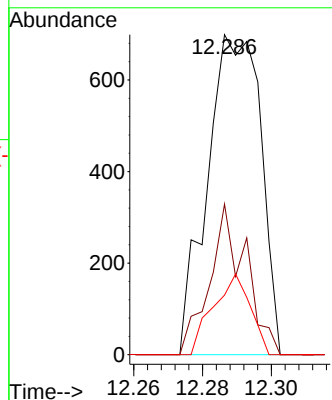
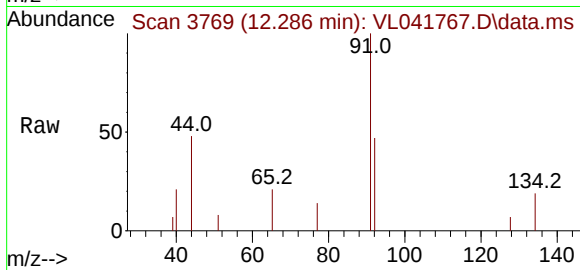




#70
n-Butylbenzene
Concen: 0.026 ppbv
RT: 12.286 min Scan# 31
Delta R.T. 0.006 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

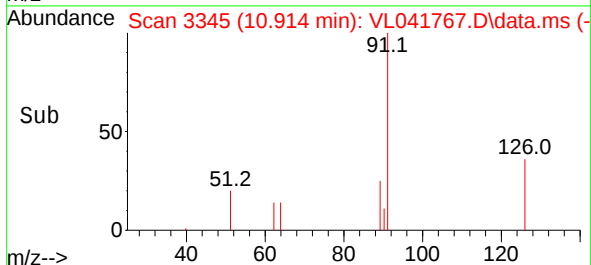
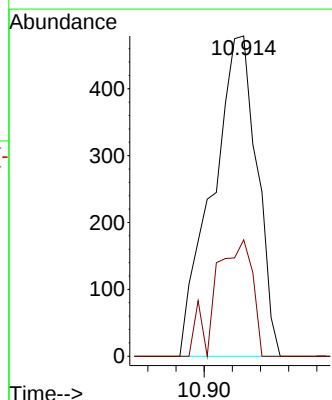
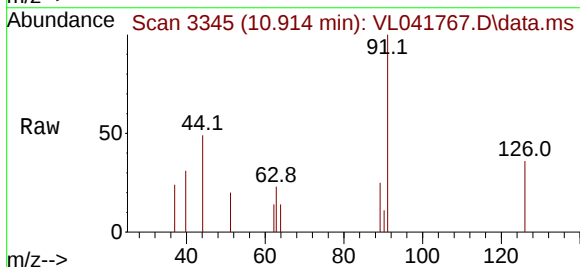
Instrument :
MSVOA_L
ClientSampleId :

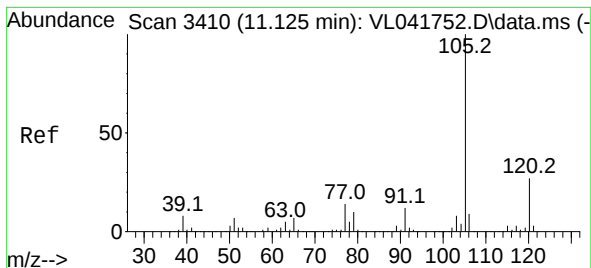
Tgt Ion: 91 Resp: 753
Ion Ratio Lower Upper
91 100
92 31.9 43.2 64.8#
134 17.5 18.2 27.4#



#71
2-Chlorotoluene
Concen: 0.024 ppbv
RT: 10.914 min Scan# 3345
Delta R.T. 0.012 min
Lab File: VL041767.D
Acq: 16 Dec 2024 23:55

Tgt Ion: 91 Resp: 527
Ion Ratio Lower Upper
91 100
126 30.0 11.6 46.4





#72

4-Ethyltoluene

Concen: 0.020 ppbv

RT: 11.137 min Scan# 3414

Delta R.T. 0.012 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:105 Resp: 460

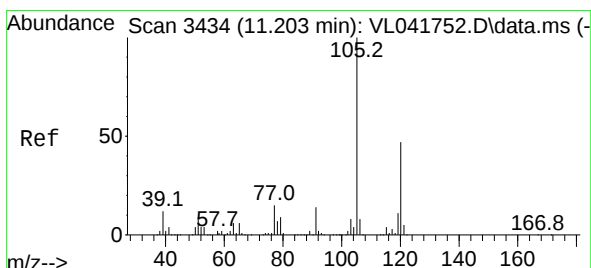
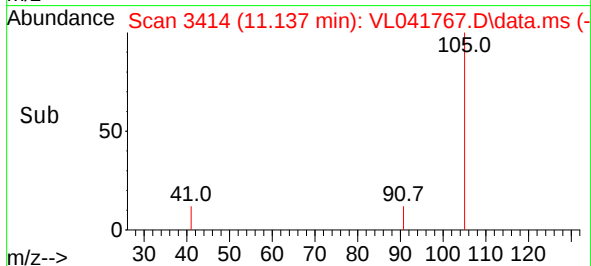
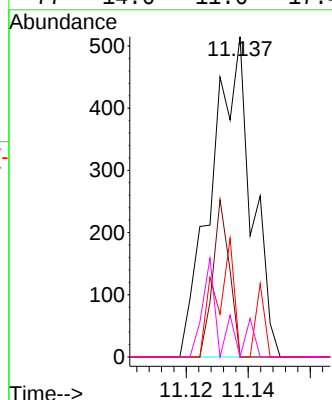
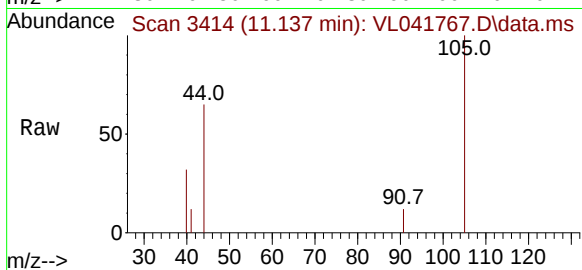
Ion Ratio Lower Upper

105 100

120 20.2 23.3 34.9#

91 21.3 10.9 16.3#

77 14.6 11.6 17.4



#73

1,3,5-Trimethylbenzene

Concen: 0.010 ppbv

RT: 11.218 min Scan# 3439

Delta R.T. 0.016 min

Lab File: VL041767.D

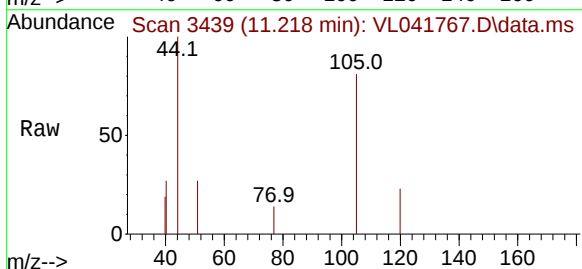
Acq: 16 Dec 2024 23:55

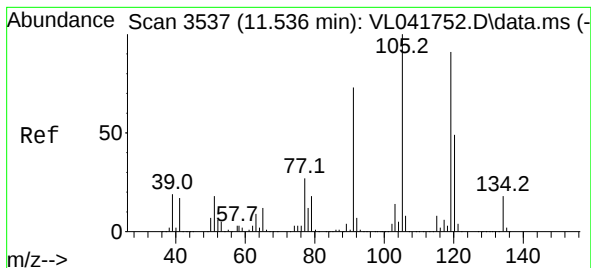
Tgt Ion:105 Resp: 185

Ion Ratio Lower Upper

105 100

120 27.7 37.4 56.2#





#74

1,2,4-Trimethylbenzene

Concen: 0.017 ppbv

RT: 11.545 min Scan# 3540

Delta R.T. 0.009 min

Lab File: VL041767.D

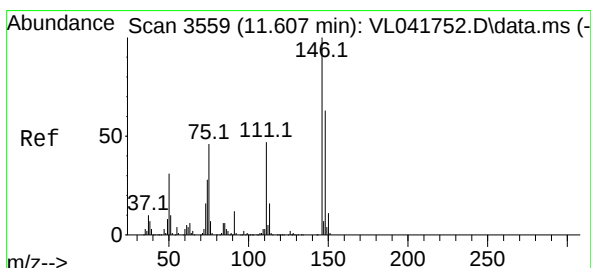
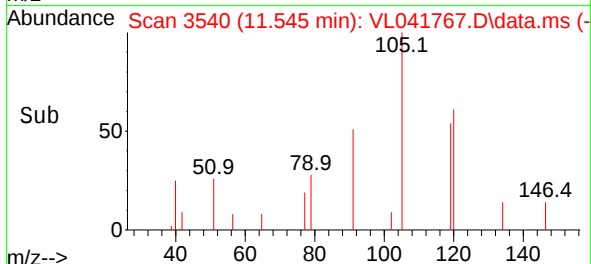
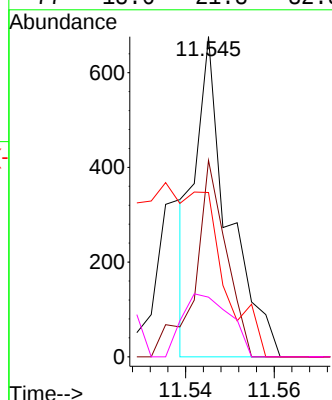
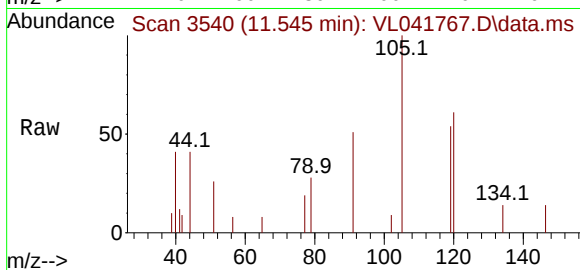
Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:105	Resp:	350
Ion	Ratio	Lower Upper
105	100	
120	61.4	39.0 58.4#
91	51.3	58.1 87.1#
77	18.6	21.8 32.8#



#75

1,3-Dichlorobenzene

Concen: 0.032 ppbv

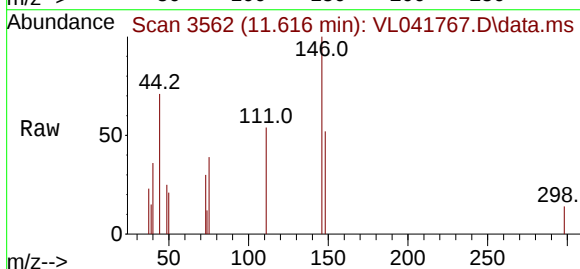
RT: 11.616 min Scan# 3562

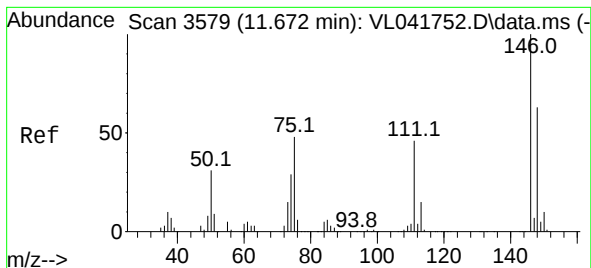
Delta R.T. 0.009 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Tgt Ion:146	Resp:	418
Ion	Ratio	Lower Upper
146	100	
111	47.8	23.4 70.3
148	50.5	31.6 95.0





#76

1,4-Dichlorobenzene

Concen: 0.010 ppbv

RT: 11.688 min Scan# 3584

Delta R.T. 0.016 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

ClientSampleId :

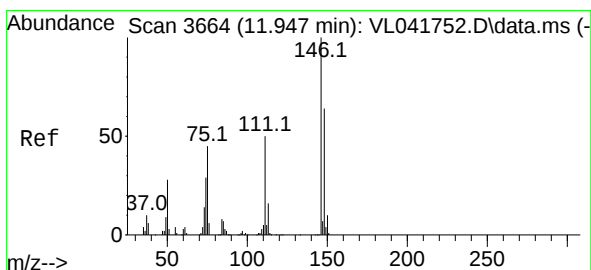
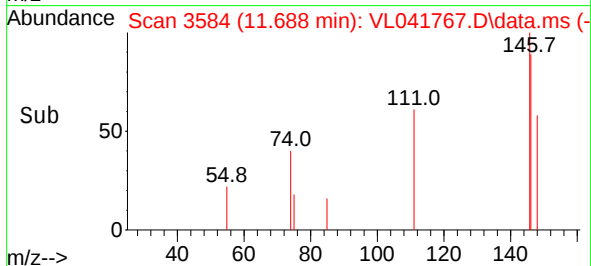
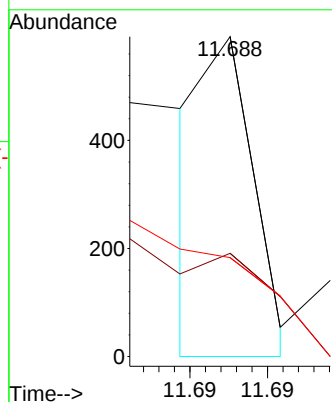
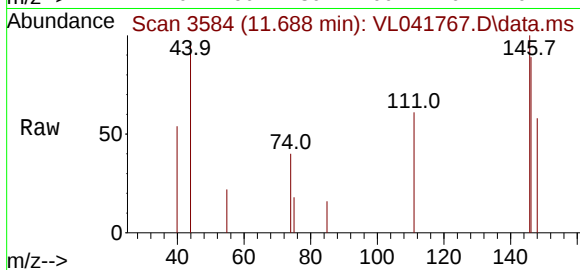
Tgt Ion:146 Resp: 125

Ion Ratio Lower Upper

146 100

111 127.2 22.7 68.1#

148 0.0 31.4 94.0#



#77

1,2-Dichlorobenzene

Concen: 0.034 ppbv

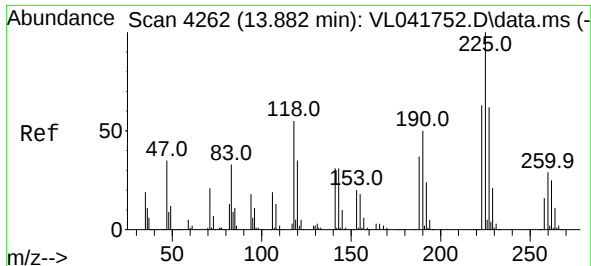
RT: 11.616 min Scan# 3562

Delta R.T. -0.331 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Tgt Ion:146 Resp: 418



#78

Hexachloro-1,3-Butadiene

Concen: 0.049 ppbv

RT: 13.889 min Scan# 41

Delta R.T. 0.006 min

Lab File: VL041767.D

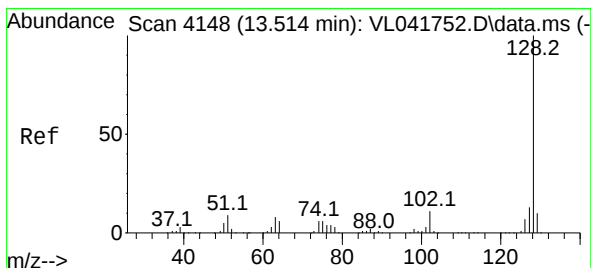
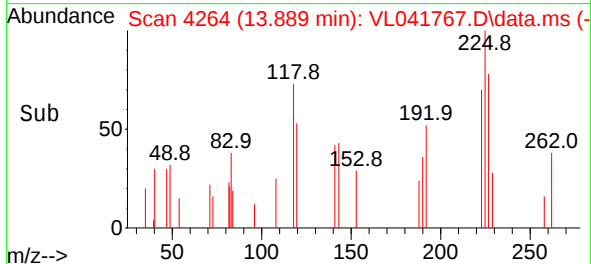
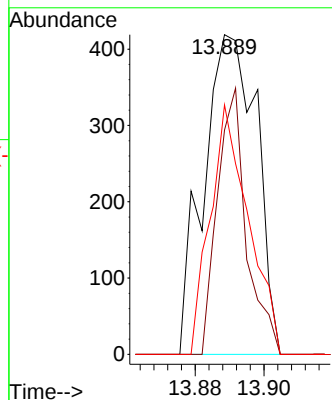
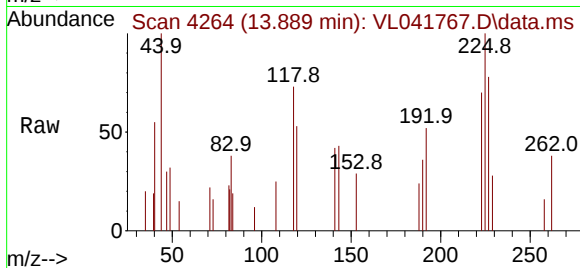
Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:225	Resp:	449
Ion Ratio	Lower	Upper
225	100	
223	45.4	50.5 75.7#
227	56.3	50.3 75.5



#79

Naphthalene

Concen: 0.012 ppbv

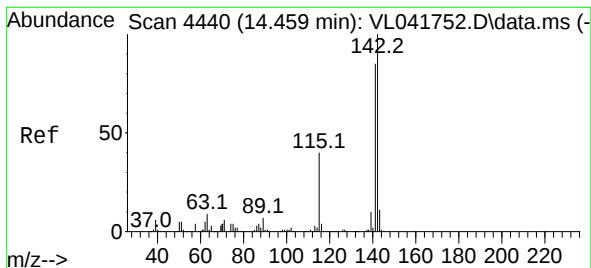
RT: 13.523 min Scan# 4151

Delta R.T. 0.009 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Tgt Ion:128	Resp:	172
Ion Ratio	Lower	Upper
128	100	
127	13.3	10.7 16.1
129	17.5	8.



#80

Naphthalene, 2-methyl-

Concen: 0.029 ppbv

RT: 14.468 min Scan# 4443

Delta R.T. 0.009 min

Lab File: VL041767.D

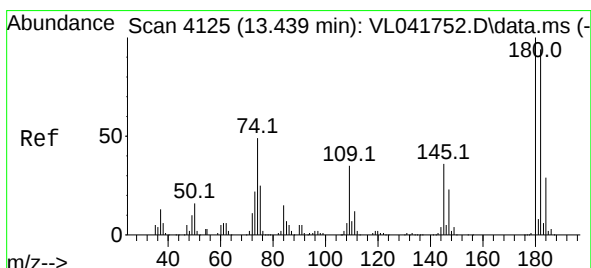
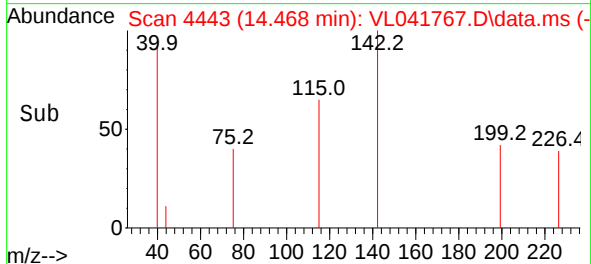
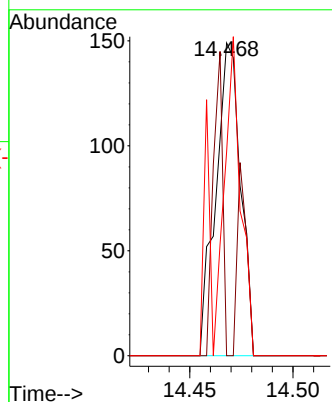
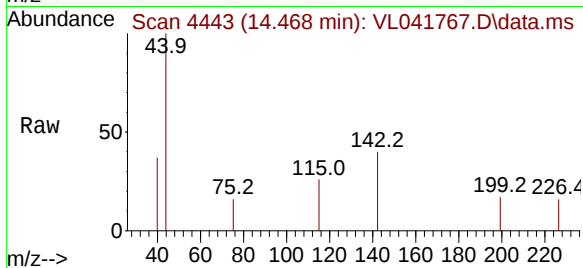
Acq: 16 Dec 2024 23:55

Instrument :

MSVOA_L

ClientSampleId :

Tgt Ion:	142	Resp:	125
Ion	Ratio	Lower	Upper
142	100		
141	60.0	68.4	102.6#
115	85.6	32.5	48.7#



#81

1,2,4-Trichlorobenzene

Concen: 0.030 ppbv

RT: 13.452 min Scan# 4129

Delta R.T. 0.012 min

Lab File: VL041767.D

Acq: 16 Dec 2024 23:55

Tgt Ion:	180	Resp:	232
Ion	Ratio	Lower	Upper
180	100		
182	0.0	77.0	115.6#
184	64.2	23.8	35.8#

