

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL092524\
 Data File : VL041627.D
 Acq On : 25 Sep 2024 17:17
 Operator : SY/MD
 Sample : P4174-01DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Sep 26 01:22:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL091624AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Sep 17 09:12:21 2024
 Response via : Initial Calibration

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

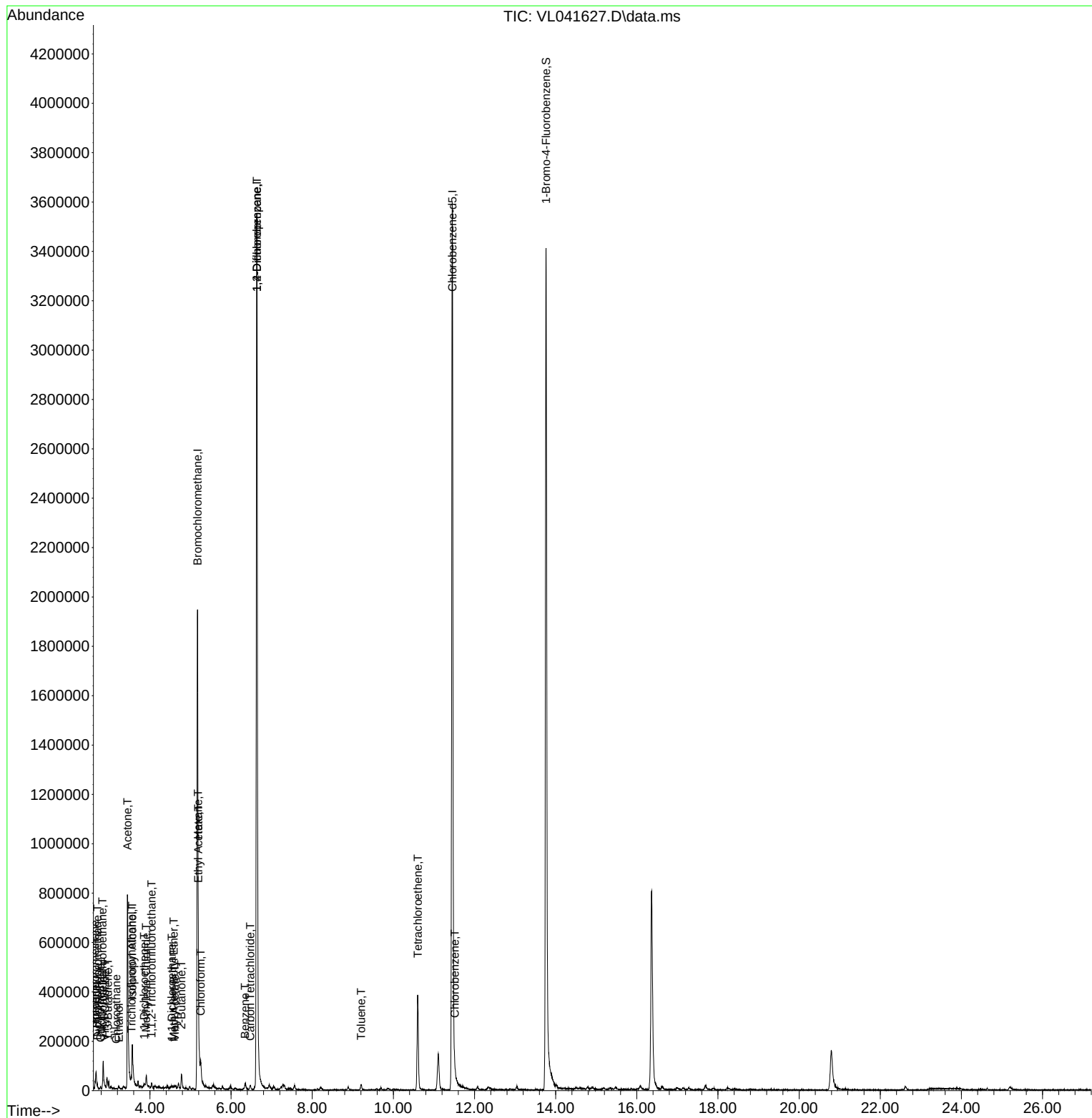
Internal Standards						
1) Bromochloromethane	5.172	49	1017906	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.635	114	2716109	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.452	117	2365562	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.764	95	1721160	9.884	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.703	85	9464	0.064	ppbv	91
3) Chlorodifluoromethane	2.648	51	26466	0.214	ppbv	97
4) Chloromethane	2.787	50	7636	0.112	ppbv	90
5) Vinyl Chloride	2.896	62	2119	0.036	ppbv #	77
7) Chloroethane	3.172	64	1456	0.064	ppbv #	80
8) Dichlorotetrafluoroethane	2.832	85	7181	0.047	ppbv	87
9) Propene	2.668	41	29157	0.560	ppbv	93
11) Trichlorofluoromethane	3.545	101	5974	0.038	ppbv	97
12) 1,1,2-Trichlorotrifluo...	4.041	101	3624	0.032	ppbv #	60
13) Ethanol	3.237	45	6919	1.767	ppbv	67
15) Acetone	3.446	43	911633	7.134	ppbv	98
16) 1,3-Butadiene	2.967	39	2266	0.036	ppbv #	1
18) 1,1-Dichloroethene	3.861	96	2142	0.045	ppbv #	71
19) Isopropyl Alcohol	3.565	45	169394	2.589	ppbv #	93
20) Methylene Chloride	3.906	84	6514	0.136	ppbv	92
23) Vinyl Acetate	4.613	43	2957	0.042	ppbv #	78
24) 1,1-Dichloroethane	4.539	63	3439	0.033	ppbv #	91
25) Ethyl Acetate	5.192	43	20823	0.091	ppbv #	93
26) Hexane	5.188	57	18227	0.191	ppbv #	49
28) Methyl tert-Butyl Ether	4.587	73	2706	0.046	ppbv #	85
29) Chloroform	5.253	83	44862	0.287	ppbv	99
34) 2-Butanone	4.777	43	36907	0.285	ppbv #	44
35) Carbon Tetrachloride	6.475	117	9091	0.068	ppbv	85
36) Benzene	6.346	78	10573	0.056	ppbv	93
39) 1,2-Dichloropropane	6.635	63	672169	8.759	ppbv #	23
52) Tetrachloroethene	10.603	164	91224	1.336	ppbv	96
53) Toluene	9.204	91	10143	0.051	ppbv #	45
57) Chlorobenzene	11.513	112	6938	0.041	ppbv #	45

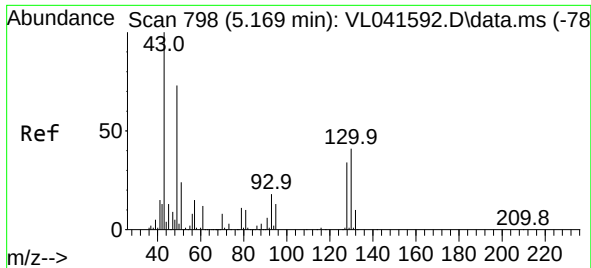
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Sep 17 09:12:21 2024
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.172 min Scan# 798

Delta R.T. 0.003 min

Lab File: VL041627.D

Acq: 25 Sep 2024 17:17

Instrument :

MSVOA_L

ClientSampleId :

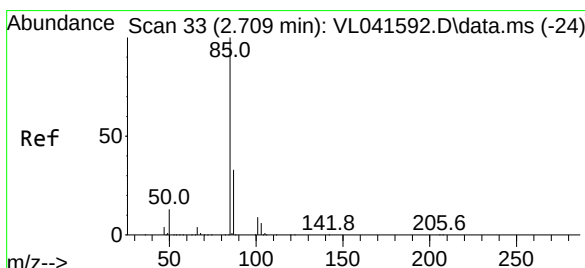
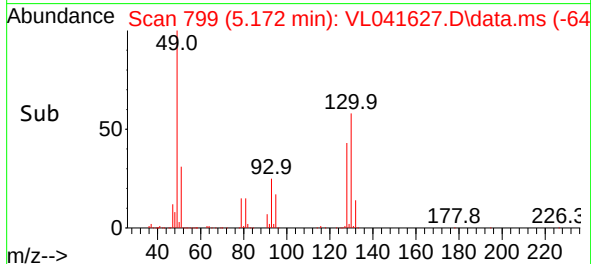
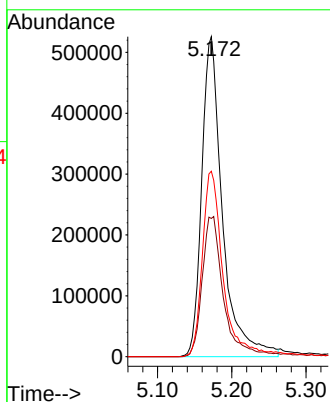
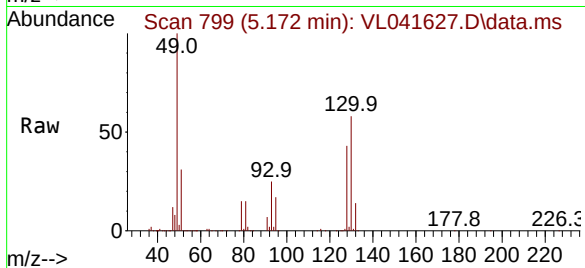
Tgt Ion: 49 Resp: 1017906

Ion Ratio Lower Upper

49 100

128 46.0 23.8 71.5

130 59.1 30.4 91.3



#2

Dichlorodifluoromethane

Concen: 0.064 ppbv

RT: 2.703 min Scan# 31

Delta R.T. -0.006 min

Lab File: VL041627.D

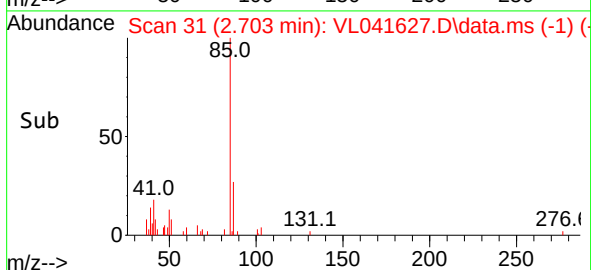
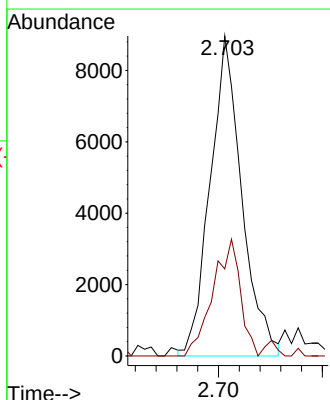
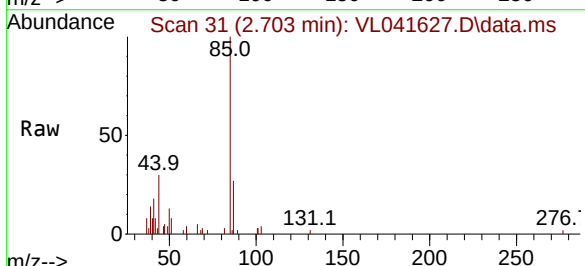
Acq: 25 Sep 2024 17:17

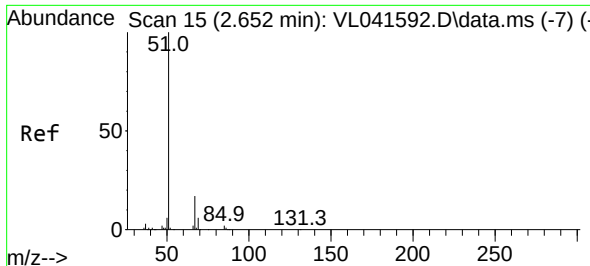
Tgt Ion: 85 Resp: 9464

Ion Ratio Lower Upper

85 100

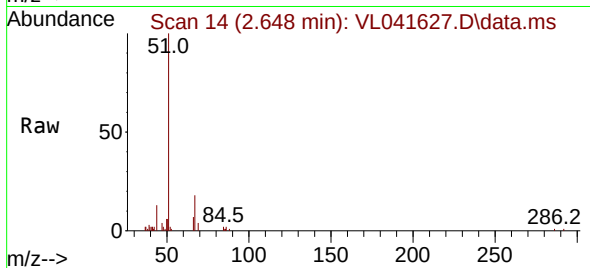
87 27.7 26.3 39.5



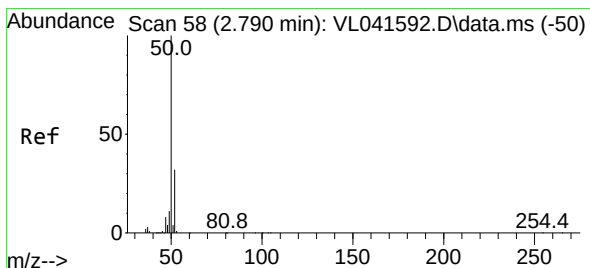
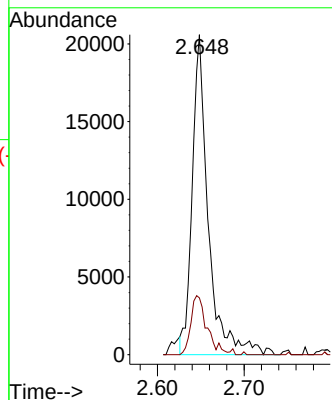
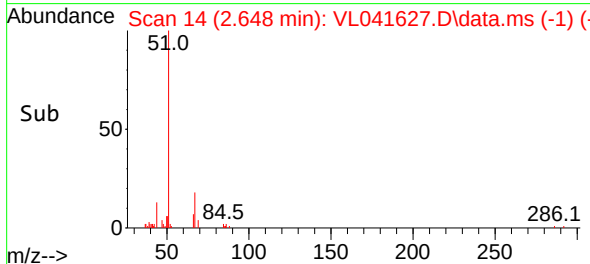


#3
Chlorodifluoromethane
Concen: 0.214 ppbv
RT: 2.648 min Scan# 14
Delta R.T. -0.003 min
Lab File: VL041627.D
Acq: 25 Sep 2024 17:17

Instrument :
MSVOA_L
ClientSampleId :

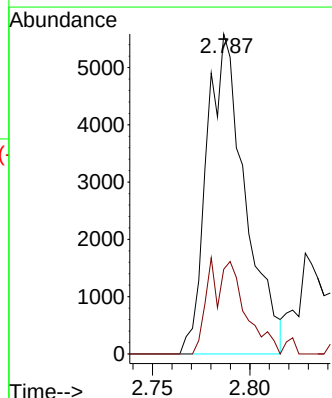
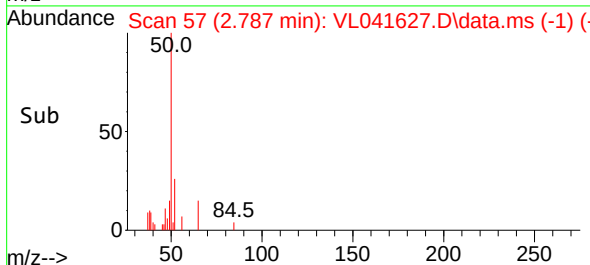
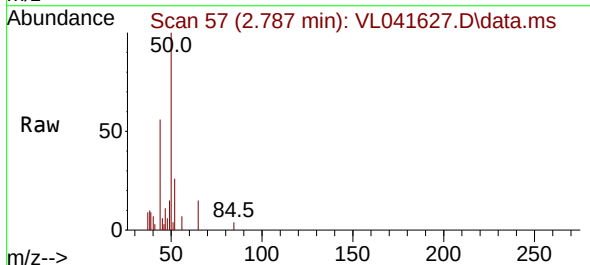


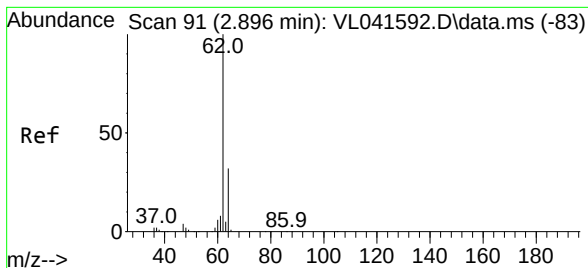
Tgt Ion: 51 Resp: 26466
Ion Ratio Lower Upper
51 100
67 18.9 14.1 21.1



#4
Chloromethane
Concen: 0.112 ppbv
RT: 2.787 min Scan# 57
Delta R.T. -0.003 min
Lab File: VL041627.D
Acq: 25 Sep 2024 17:17

Tgt Ion: 50 Resp: 7636
Ion Ratio Lower Upper
50 100
52 26.4 25.4 38.2

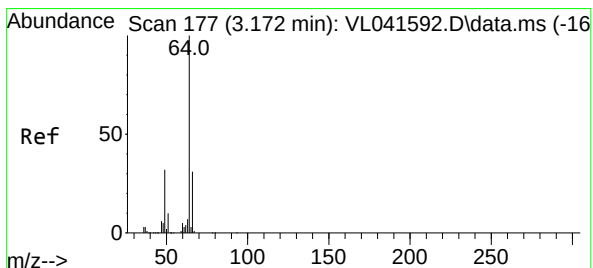
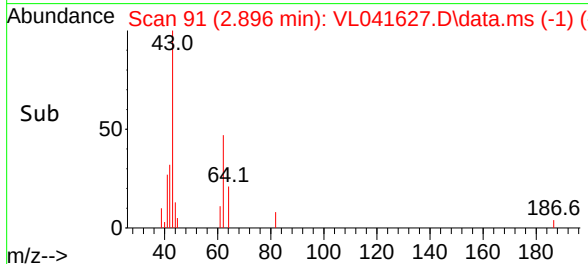
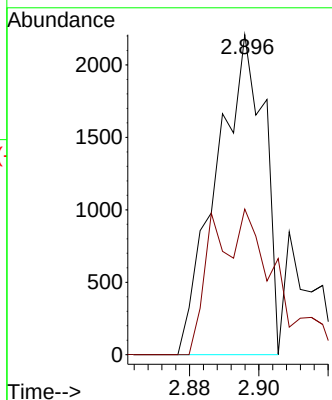
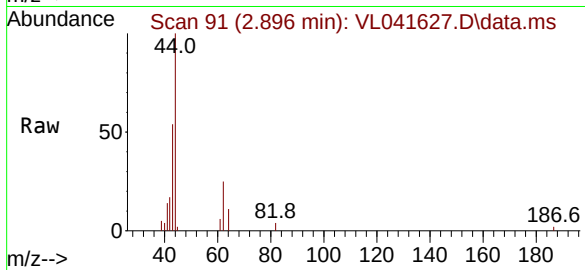




#5
 Vinyl Chloride
 Concen: 0.036 ppbv
 RT: 2.896 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VL041627.D
 Acq: 25 Sep 2024 17:17

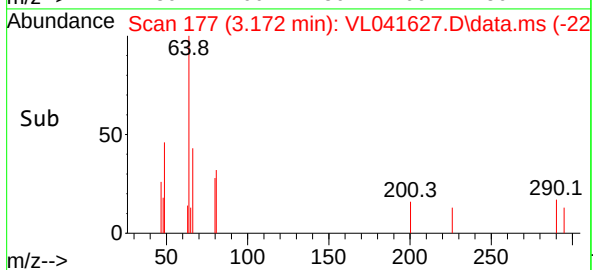
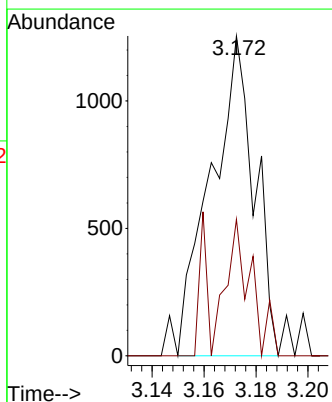
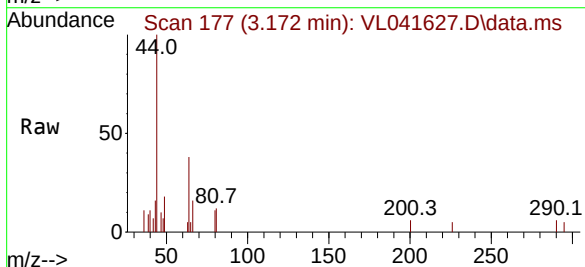
Instrument :
 MSVOA_L
 ClientSampleId :

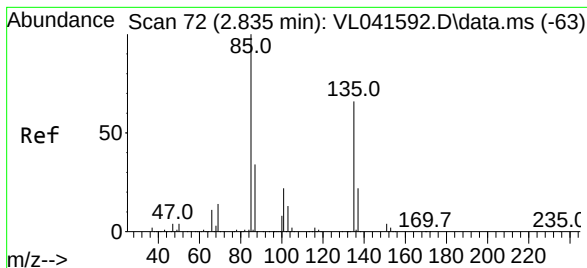
Tgt Ion: 62 Resp: 2119
 Ion Ratio Lower Upper
 62 100
 64 45.5 26.0 39.0#



#7
 Chloroethane
 Concen: 0.064 ppbv
 RT: 3.172 min Scan# 177
 Delta R.T. -0.000 min
 Lab File: VL041627.D
 Acq: 25 Sep 2024 17:17

Tgt Ion: 64 Resp: 1456
 Ion Ratio Lower Upper
 64 100
 66 42.7 25.1 37.7#

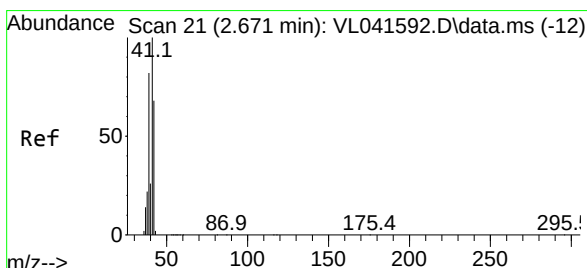
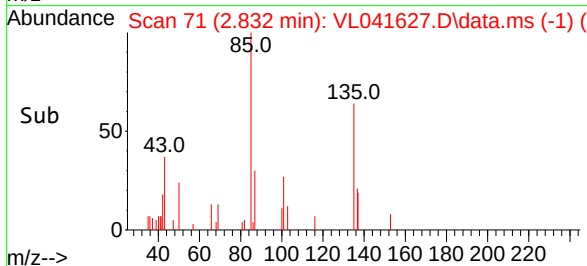
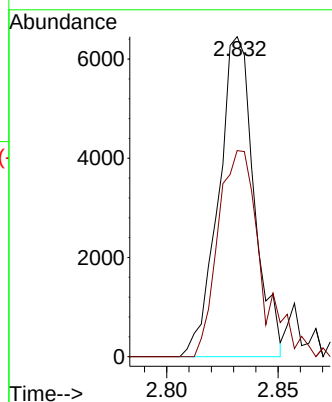
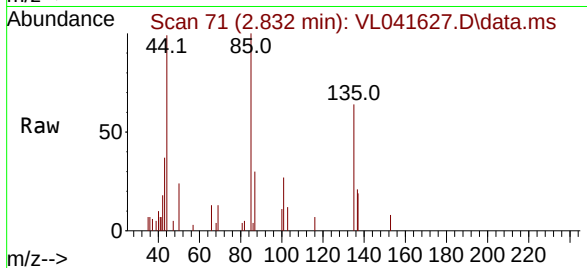




#8
 Dichlorotetrafluoroethane
 Concen: 0.047 ppbv
 RT: 2.832 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VL041627.D
 Acq: 25 Sep 2024 17:17

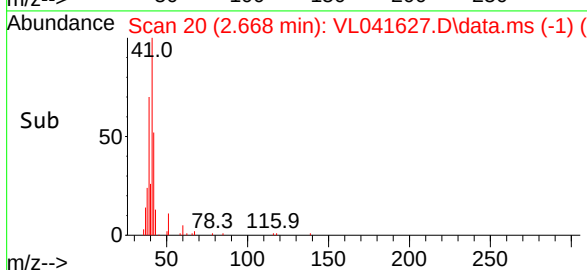
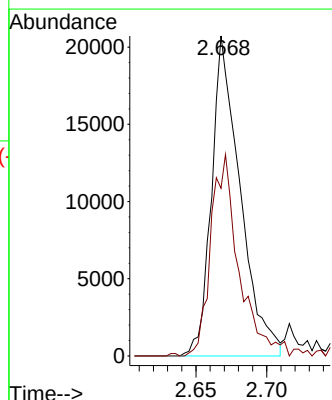
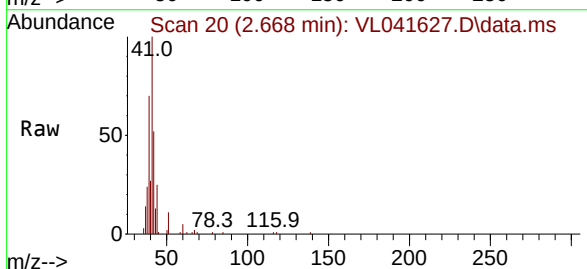
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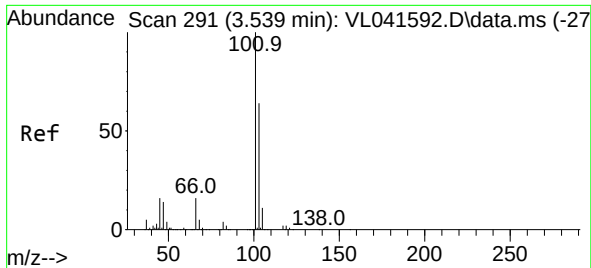
Tgt Ion: 85 Resp: 7181
 Ion Ratio Lower Upper
 85 100
 135 77.6 53.9 80.9



#9
 Propene
 Concen: 0.560 ppbv
 RT: 2.668 min Scan# 20
 Delta R.T. -0.003 min
 Lab File: VL041627.D
 Acq: 25 Sep 2024 17:17

Tgt Ion: 41 Resp: 29157
 Ion Ratio Lower Upper
 41 100
 42 63.2 55.2 82.8





#11

Trichlorofluoromethane

Concen: 0.038 ppbv

RT: 3.545 min Scan# 291

Delta R.T. 0.006 min

Lab File: VL041627.D

Acq: 25 Sep 2024 17:17

Instrument :

MSVOA_L

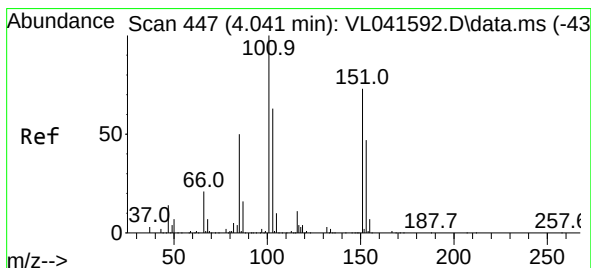
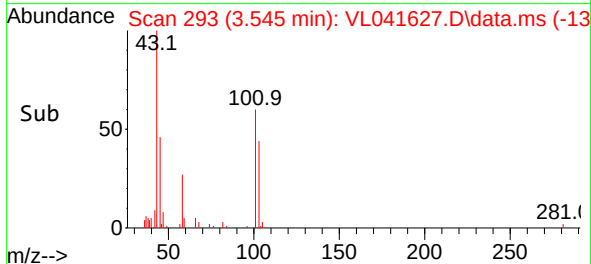
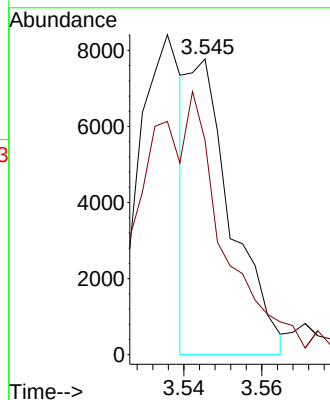
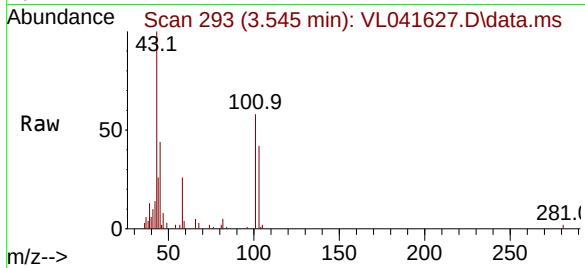
ClientSampleId :

Tgt Ion:101 Resp: 5974

Ion Ratio Lower Upper

101 100

103 66.0 51.2 76.8



#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.032 ppbv

RT: 4.041 min Scan# 447

Delta R.T. 0.000 min

Lab File: VL041627.D

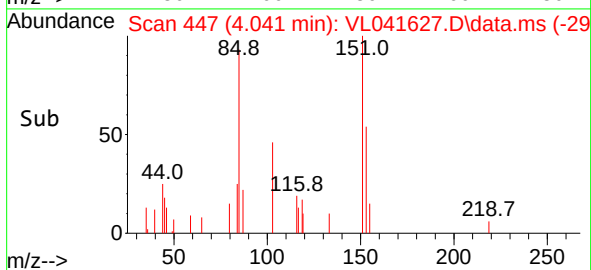
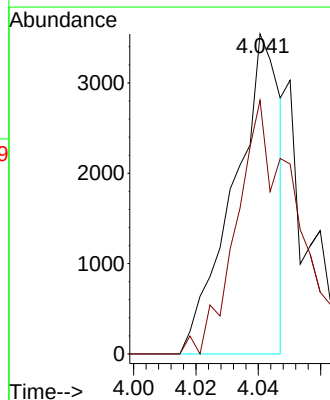
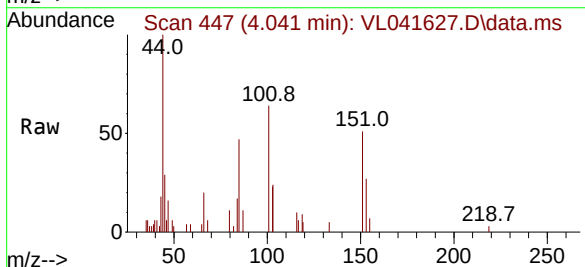
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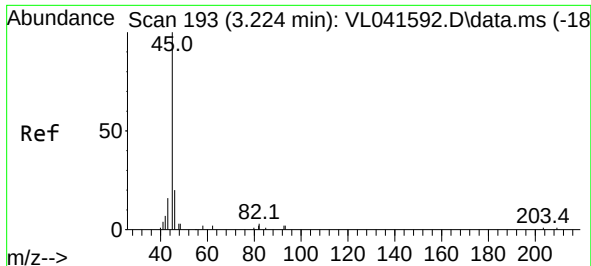
Tgt Ion:101 Resp: 3624

Ion Ratio Lower Upper

101 100

151 108.5 59.4 89.2#

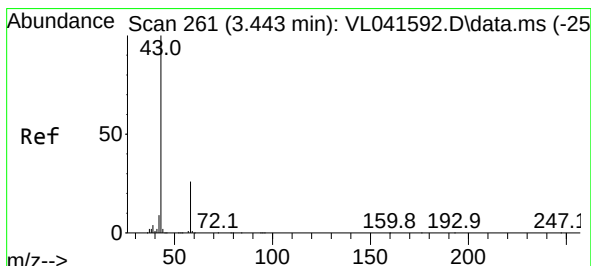
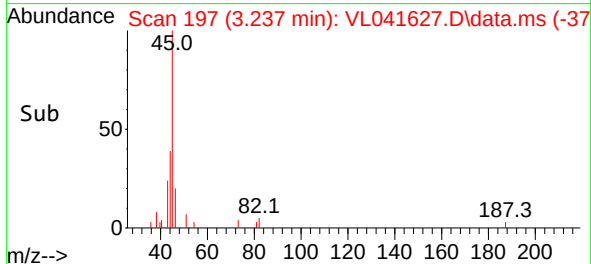
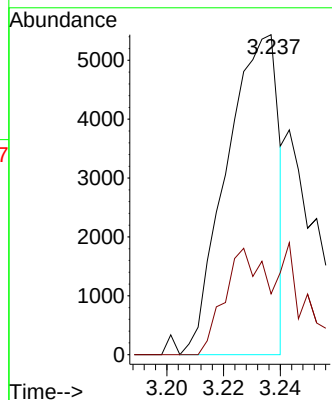
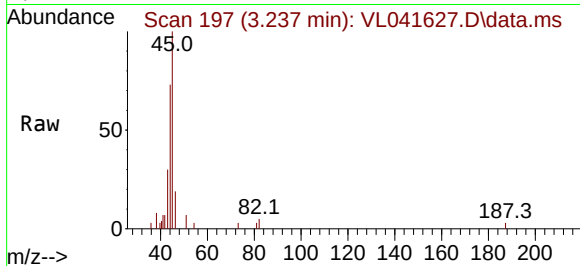




#13
 Ethanol
 Concen: 1.767 ppbv
 RT: 3.237 min Scan# 19
 Delta R.T. 0.013 min
 Lab File: VL041627.D
 Acq: 25 Sep 2024 17:17

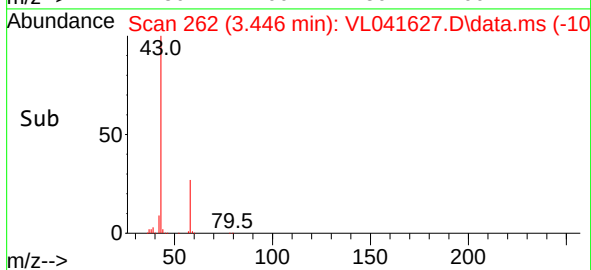
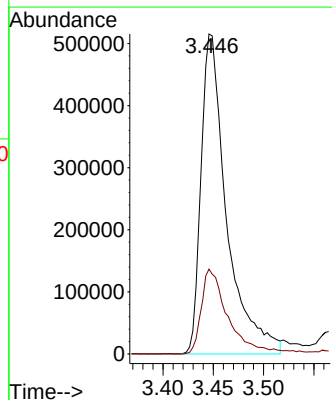
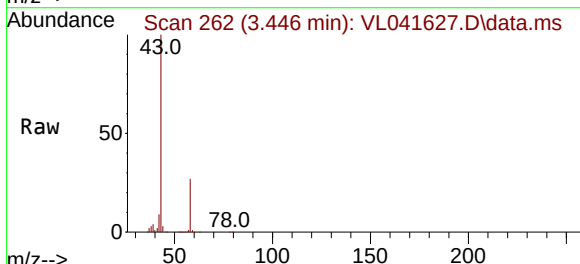
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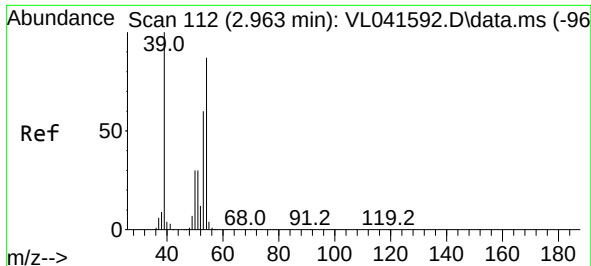
Tgt Ion: 45 Resp: 6919
 Ion Ratio Lower Upper
 45 100
 46 57.9 15.2 60.8



#15
 Acetone
 Concen: 7.134 ppbv
 RT: 3.446 min Scan# 262
 Delta R.T. 0.003 min
 Lab File: VL041627.D
 Acq: 25 Sep 2024 17:17

Tgt Ion: 43 Resp: 911633
 Ion Ratio Lower Upper
 43 100
 58 28.0 21.5 32.3

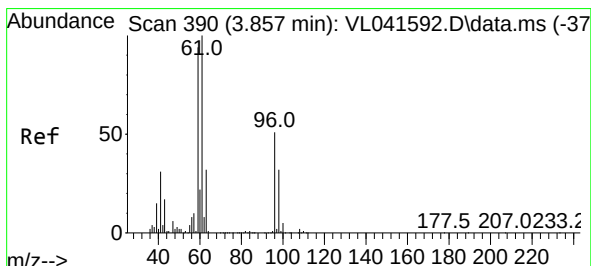
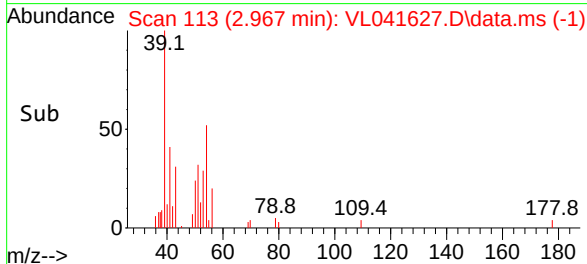
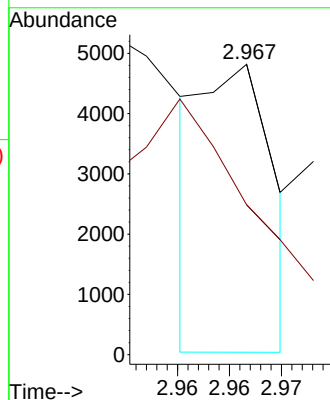
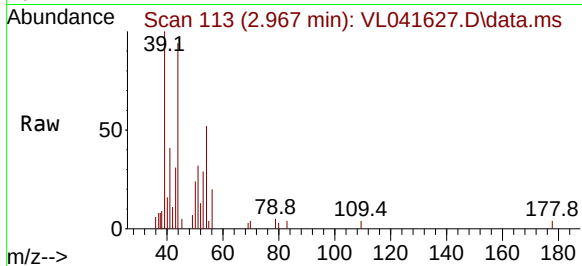




#16
1,3-Butadiene
Concen: 0.036 ppbv
RT: 2.967 min Scan# 112
Delta R.T. 0.003 min
Lab File: VL041627.D
Acq: 25 Sep 2024 17:17

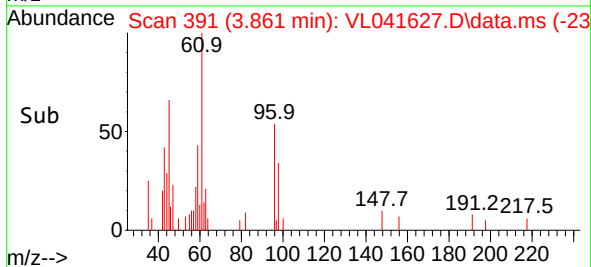
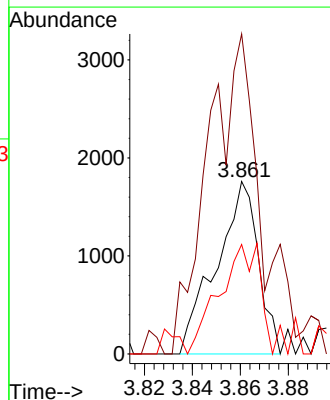
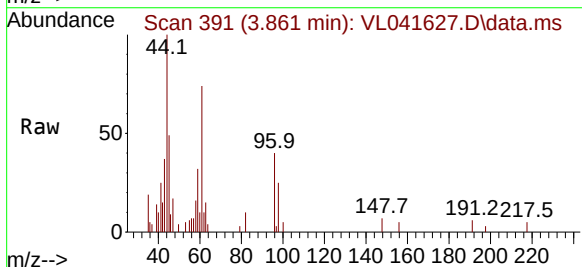
Instrument :
MSVOA_L
ClientSampleId :

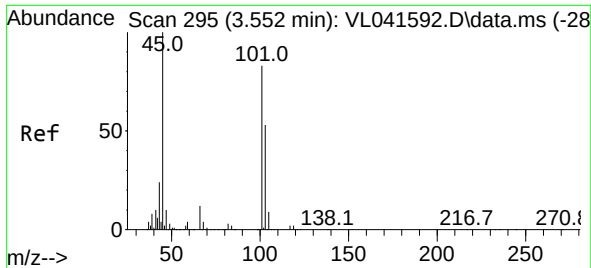
Tgt Ion: 39 Resp: 2266
Ion Ratio Lower Upper
39 100
54 286.5 62.9 94.3#



#18
1,1-Dichloroethene
Concen: 0.045 ppbv
RT: 3.861 min Scan# 391
Delta R.T. 0.003 min
Lab File: VL041627.D
Acq: 25 Sep 2024 17:17

Tgt Ion: 96 Resp: 2142
Ion Ratio Lower Upper
96 100
61 143.8 155.6 233.4#
98 53.4 50.6 75.8





#19

Isopropyl Alcohol

Concen: 2.589 ppbv

RT: 3.565 min Scan# 299

Delta R.T. 0.013 min

Lab File: VL041627.D

Acq: 25 Sep 2024 17:17

Instrument :

MSVOA_L

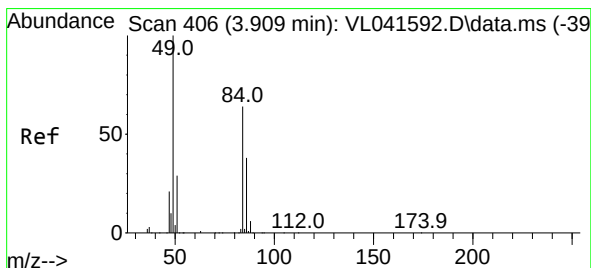
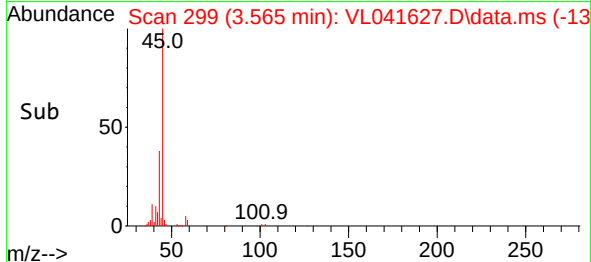
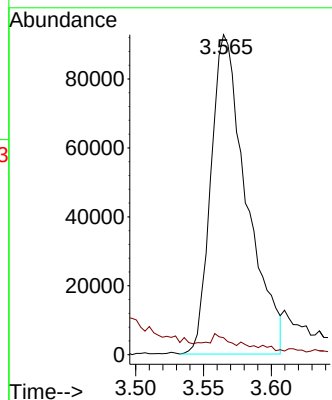
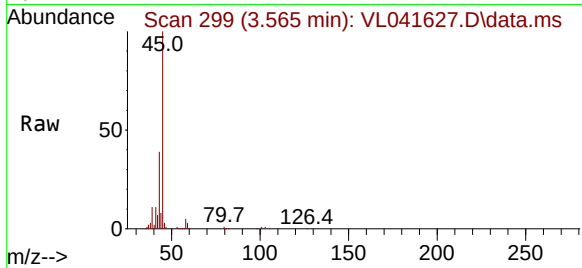
ClientSampleId :

Tgt Ion: 45 Resp: 169394

Ion Ratio Lower Upper

45 100

58 4.8 2.1 3.1#



#20

Methylene Chloride

Concen: 0.136 ppbv

RT: 3.906 min Scan# 405

Delta R.T. -0.003 min

Lab File: VL041627.D

Acq: 25 Sep 2024 17:17

Tgt Ion: 84 Resp: 6514

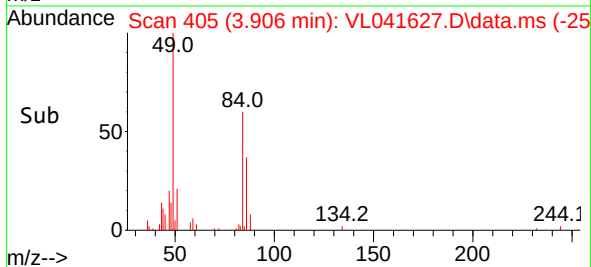
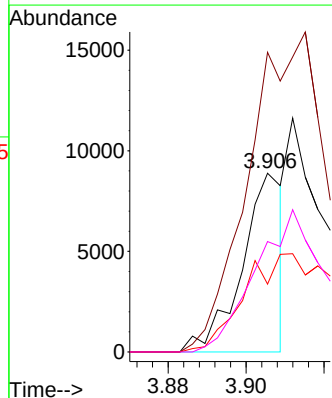
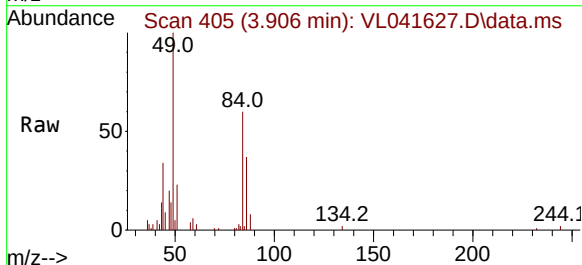
Ion Ratio Lower Upper

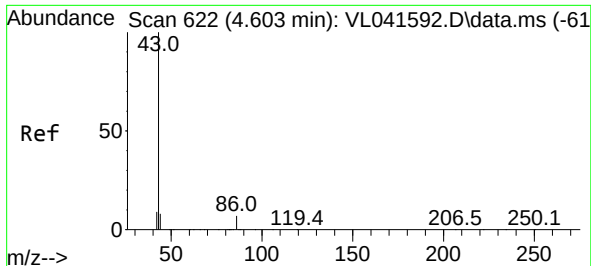
84 100

49 167.8 124.3 186.5

51 38.0 36.3 54.5

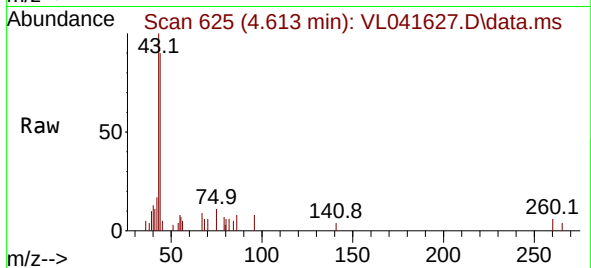
86 61.8 47.4 71.2



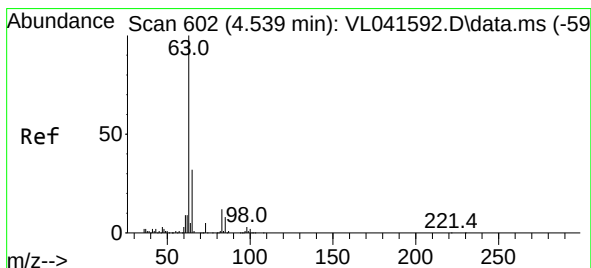
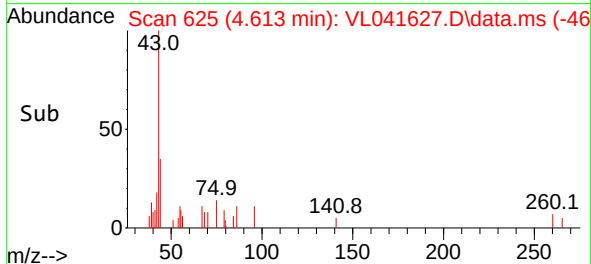
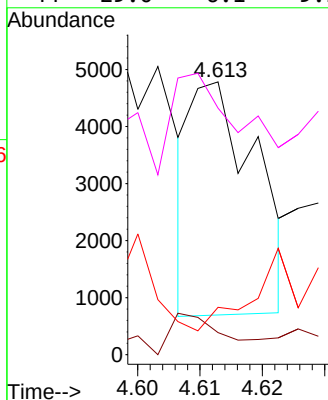


#23
Vinyl Acetate
Concen: 0.042 ppbv
RT: 4.613 min Scan# 61
Delta R.T. 0.010 min
Lab File: VL041627.D
Acq: 25 Sep 2024 17:17

Instrument :
MSVOA_L
ClientSampleId :

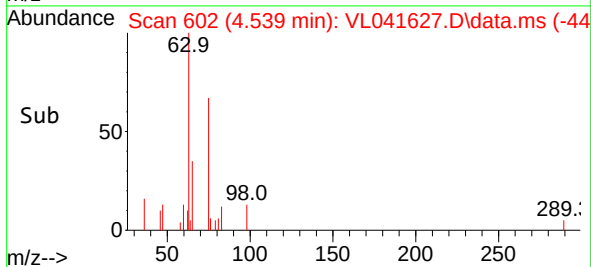
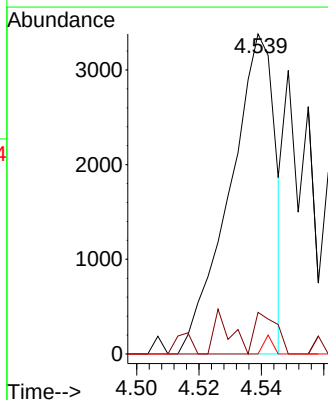
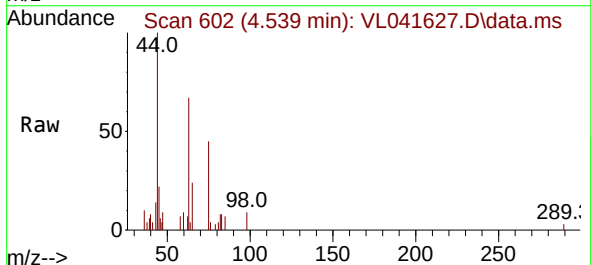


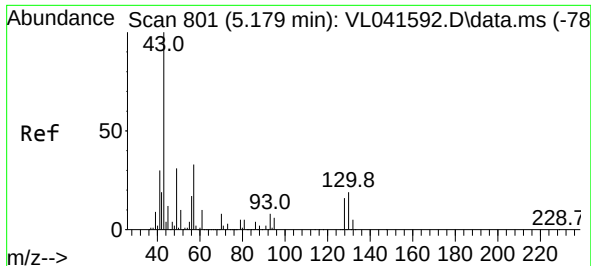
Tgt Ion: 43 Resp: 2957
Ion Ratio Lower Upper
43 100
86 3.8 4.9 7.3#
42 10.4 8.0 12.0
44 29.0 6.1 9.1#



#24
1,1-Dichloroethane
Concen: 0.033 ppbv
RT: 4.539 min Scan# 602
Delta R.T. -0.000 min
Lab File: VL041627.D
Acq: 25 Sep 2024 17:17

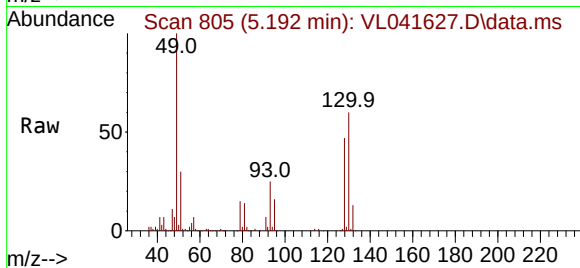
Tgt Ion: 63 Resp: 3439
Ion Ratio Lower Upper
63 100
98 7.0 1.7 5.1#
100 0.0 1.1 3.3#



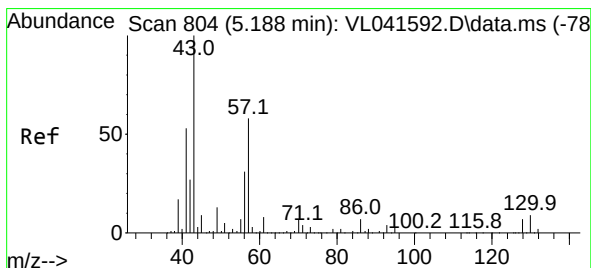
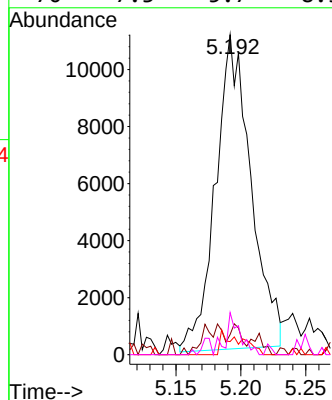
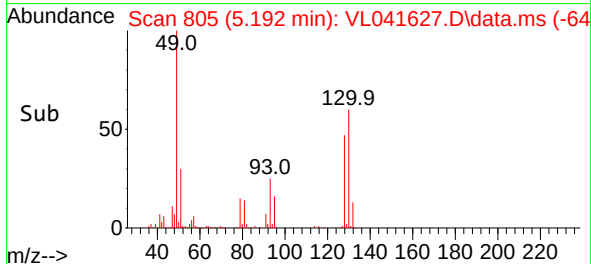


#25
Ethyl Acetate
Concen: 0.091 ppbv
RT: 5.192 min Scan# 805
Delta R.T. 0.013 min
Lab File: VL041627.D
Acq: 25 Sep 2024 17:17

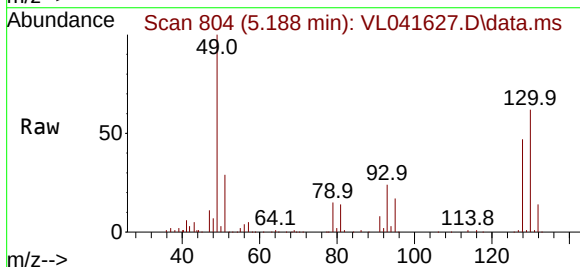
Instrument :
MSVOA_L
ClientSampleId :



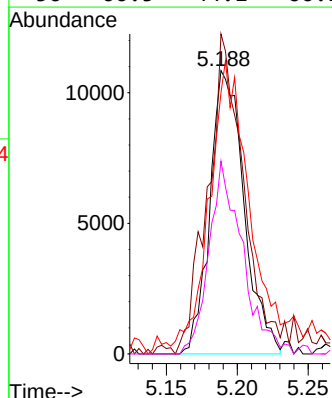
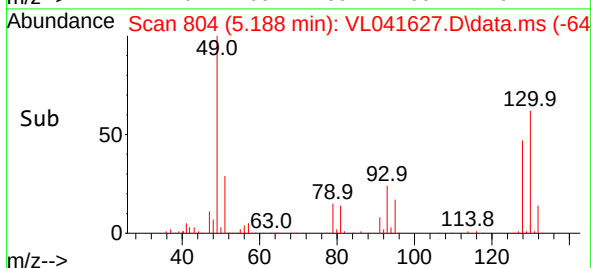
Tgt Ion: 43	Resp: 20823
Ion Ratio	Lower Upper
43 100	
45 11.7	8.2 12.2
61 4.4	8.0 12.0#
70 7.3	5.7 8.5

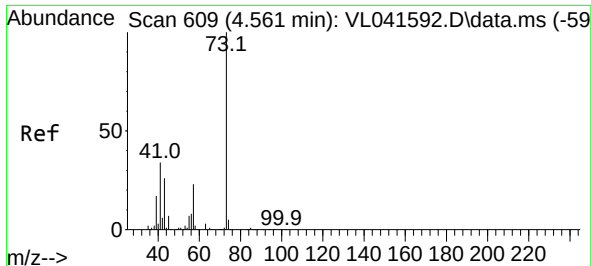


#26
Hexane
Concen: 0.191 ppbv
RT: 5.188 min Scan# 804
Delta R.T. 0.000 min
Lab File: VL041627.D
Acq: 25 Sep 2024 17:17



Tgt Ion: 57	Resp: 18227
Ion Ratio	Lower Upper
57 100	
41 118.8	75.7 113.5#
43 129.5	198.5 297.7#
56 66.5	44.1 66.1#





#28

Methyl tert-Butyl Ether

Concen: 0.046 ppbv

RT: 4.587 min Scan# 617

Delta R.T. 0.026 min

Lab File: VL041627.D

Acq: 25 Sep 2024 17:17

Instrument :

MSVOA_L

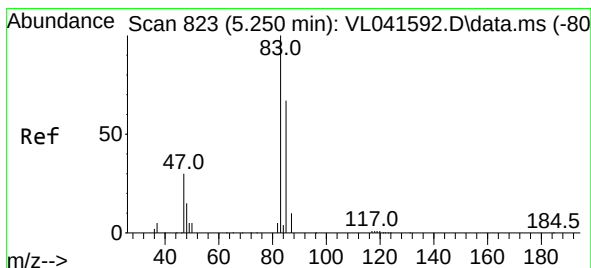
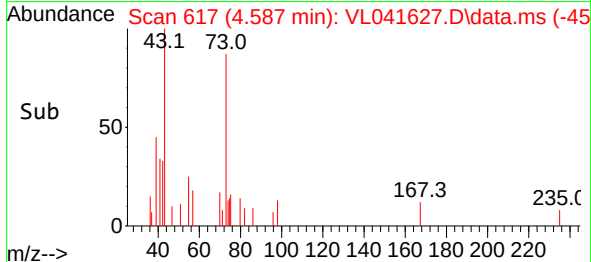
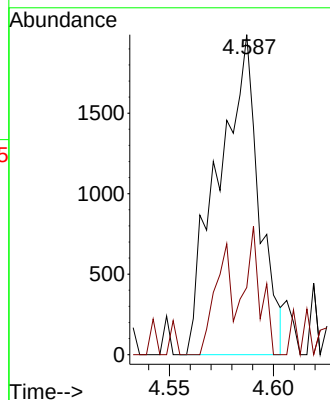
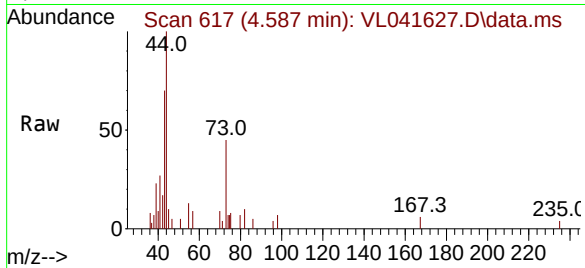
ClientSampleId :

Tgt Ion: 73 Resp: 2706

Ion Ratio Lower Upper

73 100

57 31.6 19.3 28.9#



#29

Chloroform

Concen: 0.287 ppbv

RT: 5.253 min Scan# 824

Delta R.T. 0.003 min

Lab File: VL041627.D

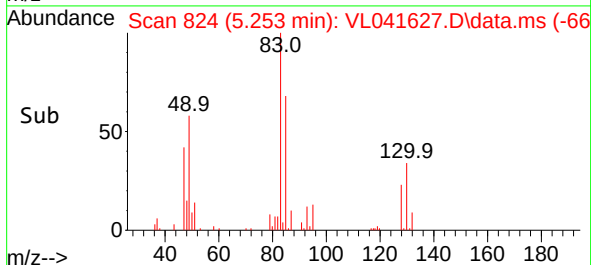
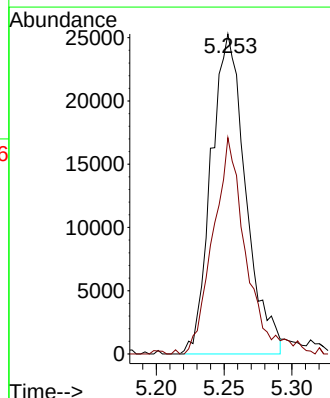
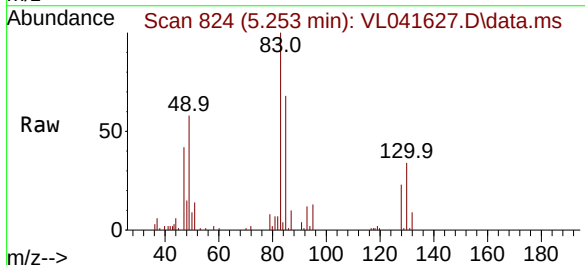
Acq: 25 Sep 2024 17:17

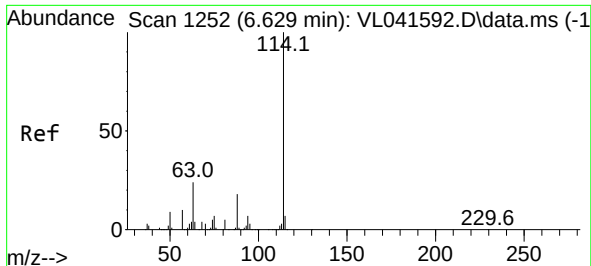
Tgt Ion: 83 Resp: 44862

Ion Ratio Lower Upper

83 100

85 67.6 53.8 80.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 11

Delta R.T. 0.006 min

Lab File: VL041627.D

Acq: 25 Sep 2024 17:17

Instrument :

MSVOA_L

ClientSampleId :

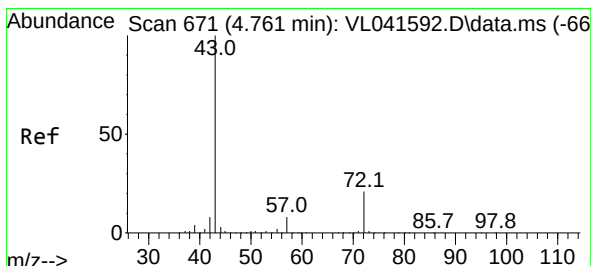
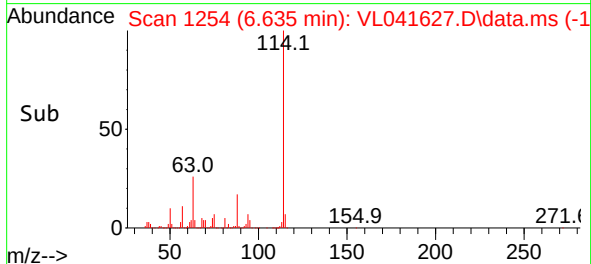
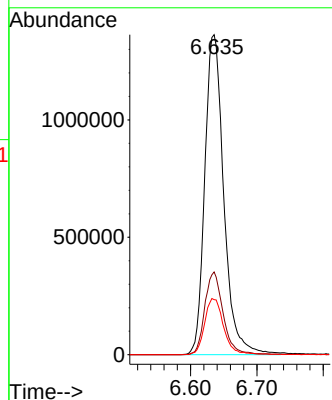
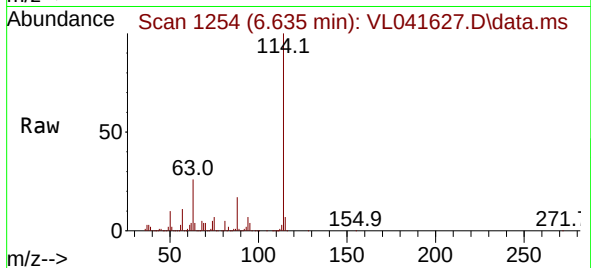
Tgt Ion:114 Resp: 2716109

Ion Ratio Lower Upper

114 100

63 25.2 20.2 30.2

88 17.6 14.2 21.4



#34

2-Butanone

Concen: 0.285 ppbv

RT: 4.777 min Scan# 676

Delta R.T. 0.016 min

Lab File: VL041627.D

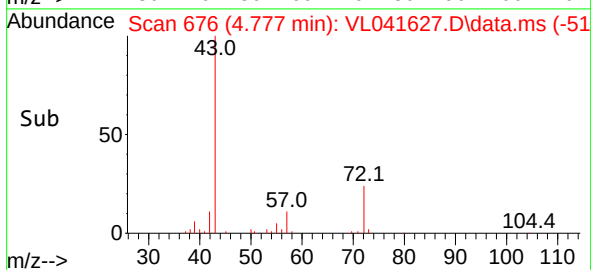
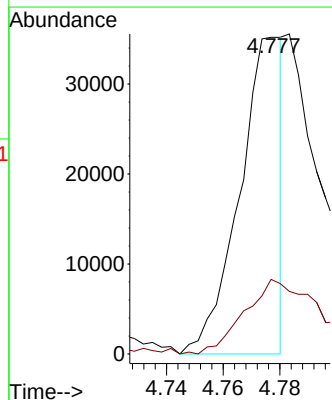
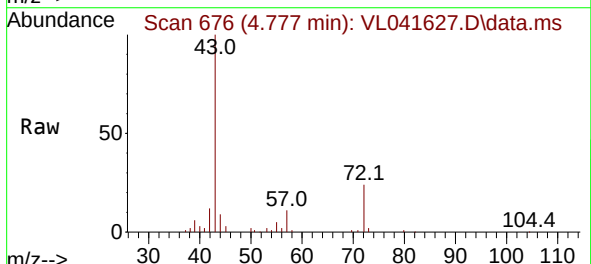
Acq: 25 Sep 2024 17:17

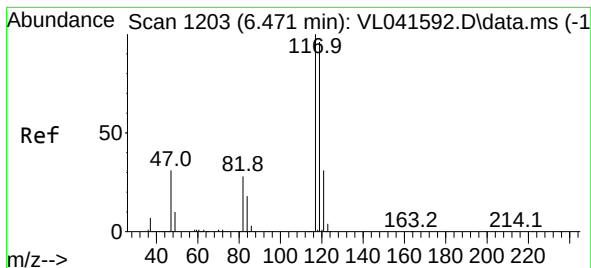
Tgt Ion: 43 Resp: 36907

Ion Ratio Lower Upper

43 100

72 47.4 16.8 25.2#





#35

Carbon Tetrachloride

Concen: 0.068 ppbv

RT: 6.475 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL041627.D

Acq: 25 Sep 2024 17:17

Instrument :

MSVOA_L

ClientSampleId :

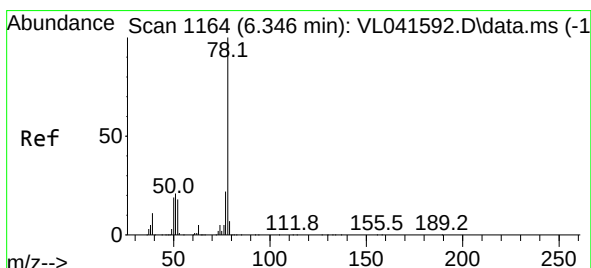
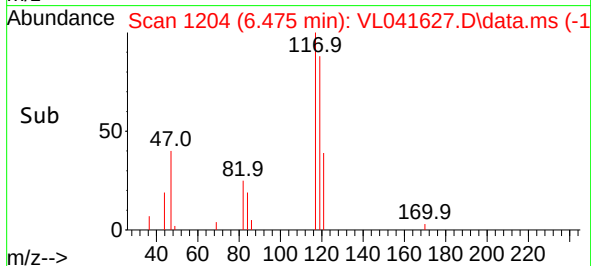
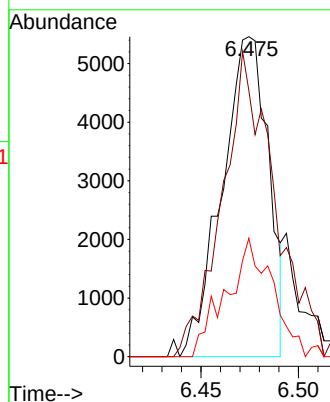
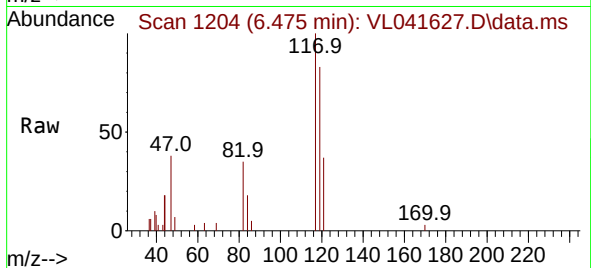
Tgt Ion:117 Resp: 9091

Ion Ratio Lower Upper

117 100

119 80.4 76.8 115.2

121 37.0 25.0 37.6



#36

Benzene

Concen: 0.056 ppbv

RT: 6.346 min Scan# 1164

Delta R.T. -0.000 min

Lab File: VL041627.D

Acq: 25 Sep 2024 17:17

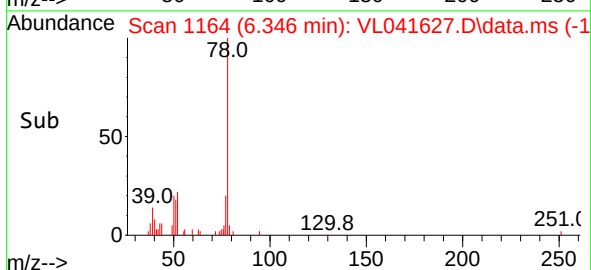
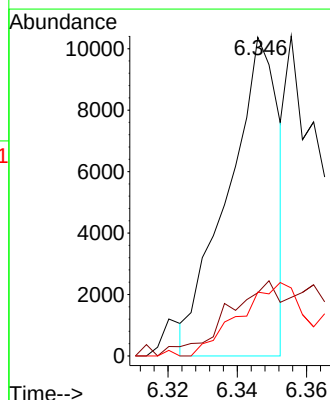
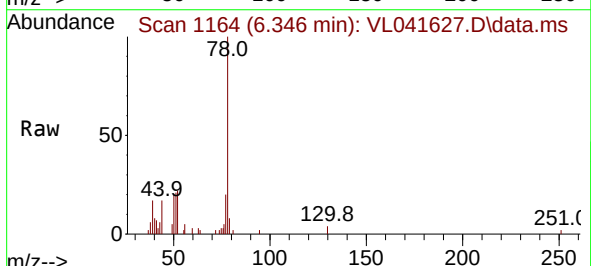
Tgt Ion: 78 Resp: 10573

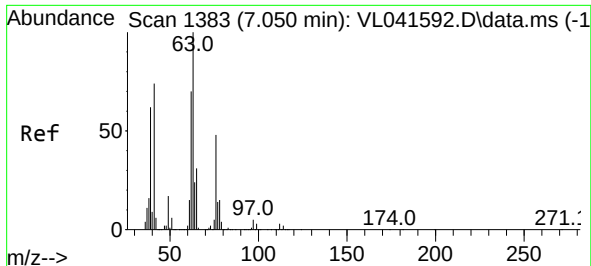
Ion Ratio Lower Upper

78 100

77 18.8 17.8 26.6

50 22.3 15.4 23.0





#39

1,2-Dichloropropane

Concen: 8.759 ppbv

RT: 6.635 min Scan# 1

Delta R.T. -0.415 min

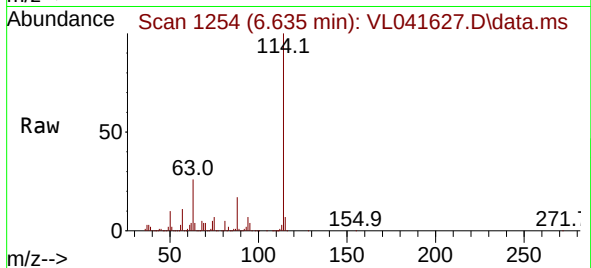
Lab File: VL041627.D

Acq: 25 Sep 2024 17:17

Instrument :

MSVOA_L

ClientSampleId :



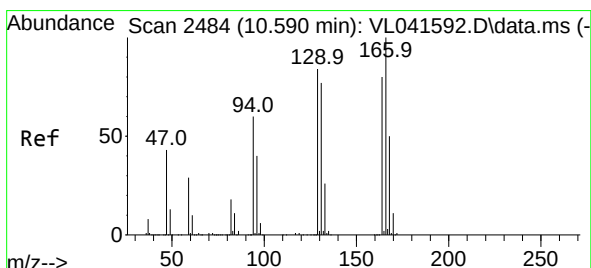
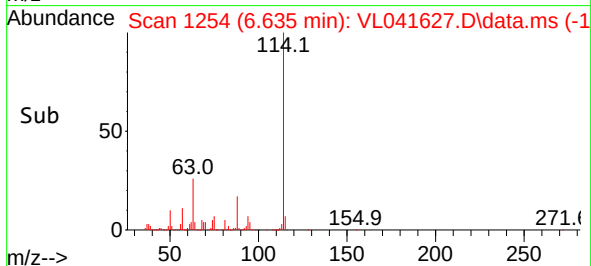
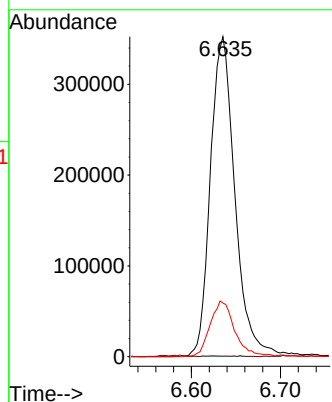
Tgt Ion: 63 Resp: 672169

Ion Ratio Lower Upper

63 100

41 0.0 59.5 89.3#

62 16.7 56.2 84.2#



#52

Tetrachloroethene

Concen: 1.336 ppbv

RT: 10.603 min Scan# 2488

Delta R.T. 0.013 min

Lab File: VL041627.D

Acq: 25 Sep 2024 17:17

Tgt Ion:164 Resp: 91224

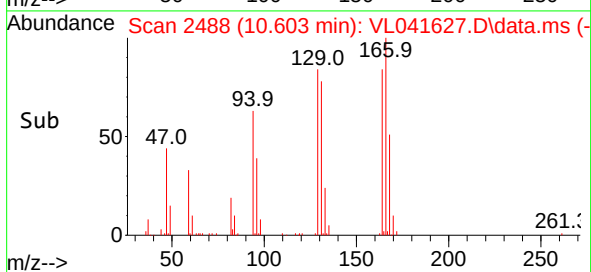
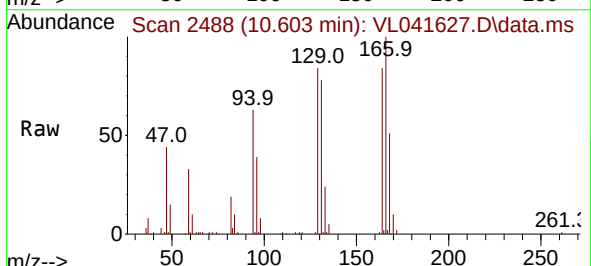
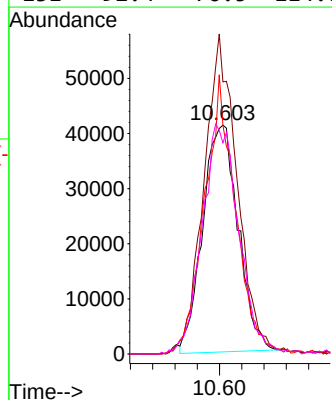
Ion Ratio Lower Upper

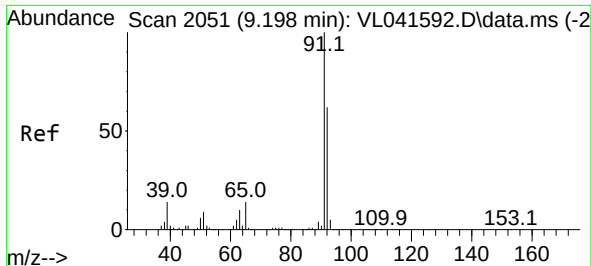
164 100

166 119.1 99.4 149.2

129 99.8 83.5 125.3

131 92.4 76.5 114.7

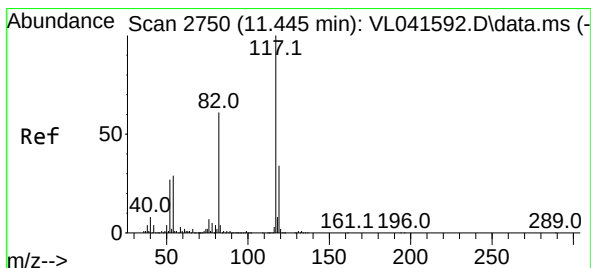
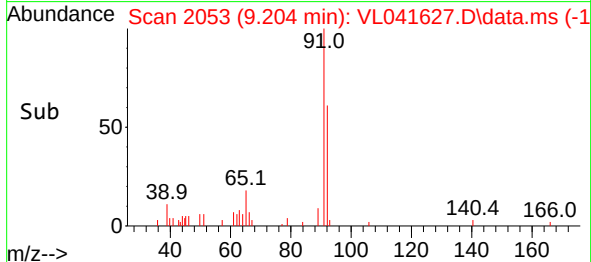
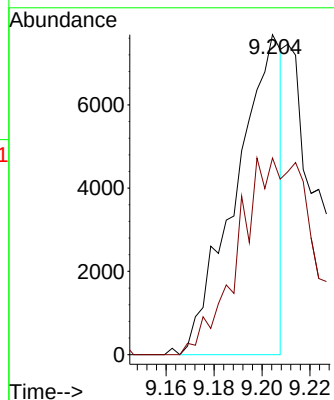
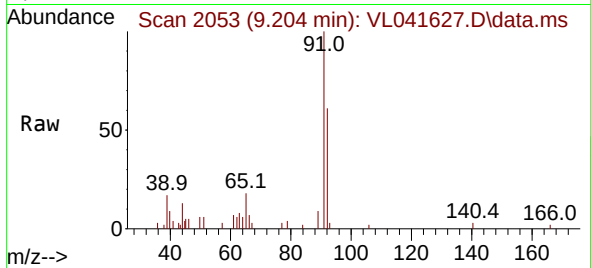




#53
Toluene
Concen: 0.051 ppbv
RT: 9.204 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VL041627.D
Acq: 25 Sep 2024 17:17

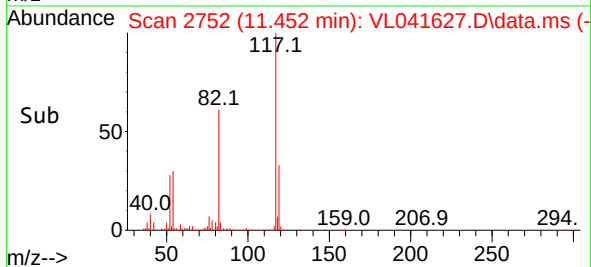
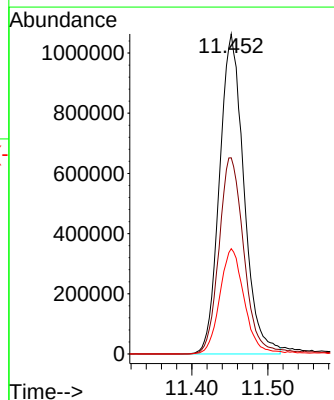
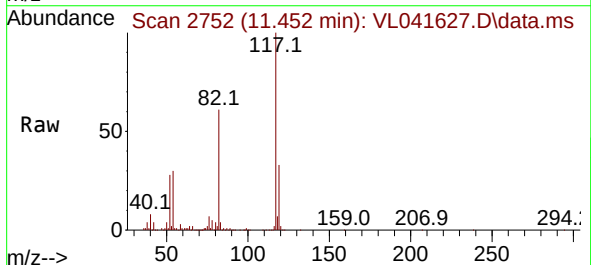
Instrument :
MSVOA_L
ClientSampleId :

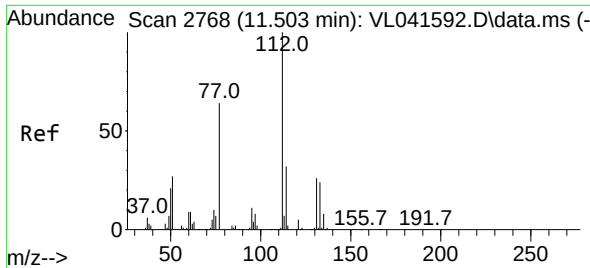
Tgt Ion: 91 Resp: 10143
Ion Ratio Lower Upper
91 100
92 102.8 48.9 73.3#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.452 min Scan# 2752
Delta R.T. 0.006 min
Lab File: VL041627.D
Acq: 25 Sep 2024 17:17

Tgt Ion: 117 Resp: 2365562
Ion Ratio Lower Upper
117 100
82 63.8 49.4 74.2
119 33.4 24.4 36.6

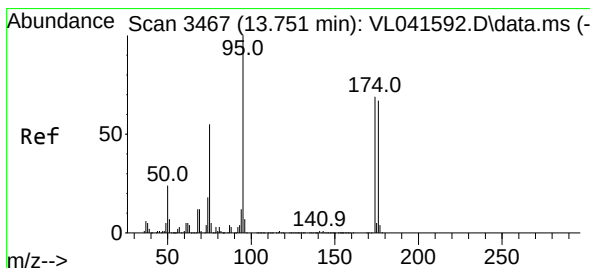
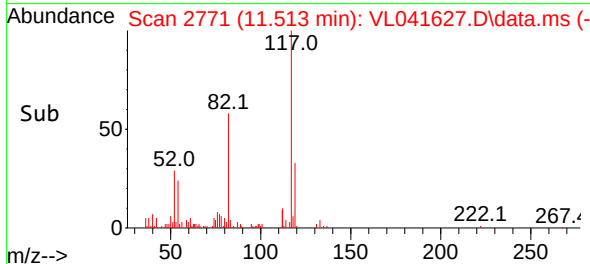
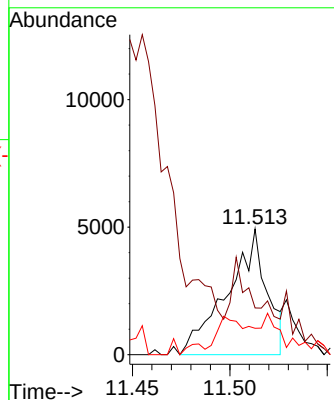
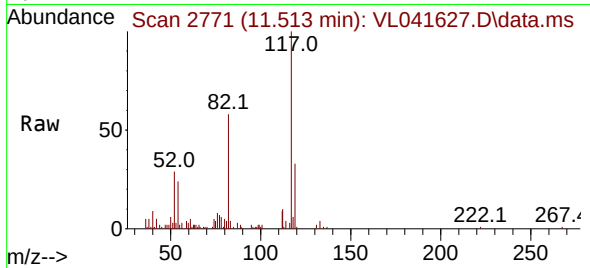




#57
Chlorobenzene
Concen: 0.041 ppbv
RT: 11.513 min Scan# 21
Delta R.T. 0.010 min
Lab File: VL041627.D
Acq: 25 Sep 2024 17:17

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion:112 Resp: 6938
Ion Ratio Lower Upper
112 100
77 8.7 52.0 78.0#
114 20.3 28.6 35.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.884 ppbv
RT: 13.764 min Scan# 3471
Delta R.T. 0.013 min
Lab File: VL041627.D
Acq: 25 Sep 2024 17:17

Tgt Ion: 95 Resp: 1721160
Ion Ratio Lower Upper
95 100
174 70.2 55.8 83.8
175 4.9 4.1 6.1

