

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL101123\
 Data File : VL040758.D
 Acq On : 11 Oct 2023 14:33
 Operator : SY/MD
 Sample : VSTDICC0.1
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDICC0.1

Quant Time: Oct 12 00:26:48 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL101123AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Oct 12 00:21:08 2023
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.211	49	1097121	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.671	114	3028043	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.481	117	2763779	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.786	95	2100944	10.331	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.300%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.761	85	19769	0.102	ppbv	95
3) Chlorodifluoromethane	2.703	51	15839	0.098	ppbv	97
4) Chloromethane	2.845	50	6079	0.095	ppbv #	76
5) Vinyl Chloride	2.948	62	6013	0.091	ppbv #	72
6) Bromomethane	3.150	94	2088	0.077	ppbv #	50
7) Chloroethane	3.227	64	1802	0.084	ppbv #	79
8) Dichlorotetrafluoroethane	2.890	85	13403	0.092	ppbv	93
9) Propene	2.729	41	7688	0.128	ppbv	89
10) Heptane	7.594	43	8904	0.059	ppbv #	33
11) Trichlorofluoromethane	3.587	101	15463	0.104	ppbv	88
12) 1,1,2-Trichlorotrifluo...	4.092	101	4344	0.041	ppbv #	1
14) Bromoethene	3.388	108	4666	0.102	ppbv #	72
16) 1,3-Butadiene	3.015	39	4776	0.080	ppbv #	60
17) tert-Butyl alcohol	3.925	59	4039	0.035	ppbv #	71
18) 1,1-Dichloroethene	3.909	96	4742	0.099	ppbv	91
20) Methylene Chloride	3.954	84	13931	0.295	ppbv #	87
21) Allyl Chloride	4.022	41	7058	0.094	ppbv #	64
22) trans-1,2-Dichloroethene	4.468	96	4668	0.092	ppbv #	88
24) 1,1-Dichloroethane	4.581	63	4737	0.043	ppbv #	90
25) Ethyl Acetate	5.237	43	29176	0.117	ppbv #	96
26) Hexane	5.234	57	9880	0.087	ppbv #	31
27) Carbon Disulfide	4.153	76	11370	0.091	ppbv #	59
28) Methyl tert-Butyl Ether	4.626	73	6789	0.077	ppbv #	44
29) Chloroform	5.295	83	16768	0.102	ppbv	90
30) Cyclohexane	6.616	84	3407	0.035	ppbv #	1
31) cis-1,2-Dichloroethene	5.092	61	3391	0.032	ppbv #	74
32) 1,1,1-Trichloroethane	6.025	97	8959	0.051	ppbv #	25
35) Carbon Tetrachloride	6.510	117	6183	0.036	ppbv	93
36) Benzene	6.388	78	20687	0.089	ppbv #	71
37) 1,2-Dichloroethane	5.825	62	9993	0.084	ppbv #	92
38) Trichloroethene	7.311	130	4031	0.039	ppbv #	57
39) 1,2-Dichloropropane	6.668	63	730453	8.028	ppbv #	26
42) Bromodichloromethane	7.272	83	9694	0.054	ppbv #	85
43) Methyl Methacrylate	7.497	69	4865	0.052	ppbv #	1
44) 2,2,4-Trimethylpentane	7.337	57	39914	0.101	ppbv	98
46) cis-1,3-Dichloropropene	8.163	75	7656	0.084	ppbv	92
48) Dibromochloromethane	9.722	129	7620	0.048	ppbv #	24
49) Bromoform	12.420	173	3961	0.030	ppbv #	3
52) Tetrachloroethene	10.629	164	3180	0.034	ppbv #	63
53) Toluene	9.237	91	13296	0.048	ppbv #	13
56) 1,1,1,2-Tetrachloroethane	11.523	131	3392	0.030	ppbv #	1
57) Chlorobenzene	11.539	112	19164	0.097	ppbv #	69
58) Ethyl Benzene	12.352	91	16096	0.046	ppbv	90

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 QLast Update : Thu Oct 12 00:21:08 2023
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Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)	

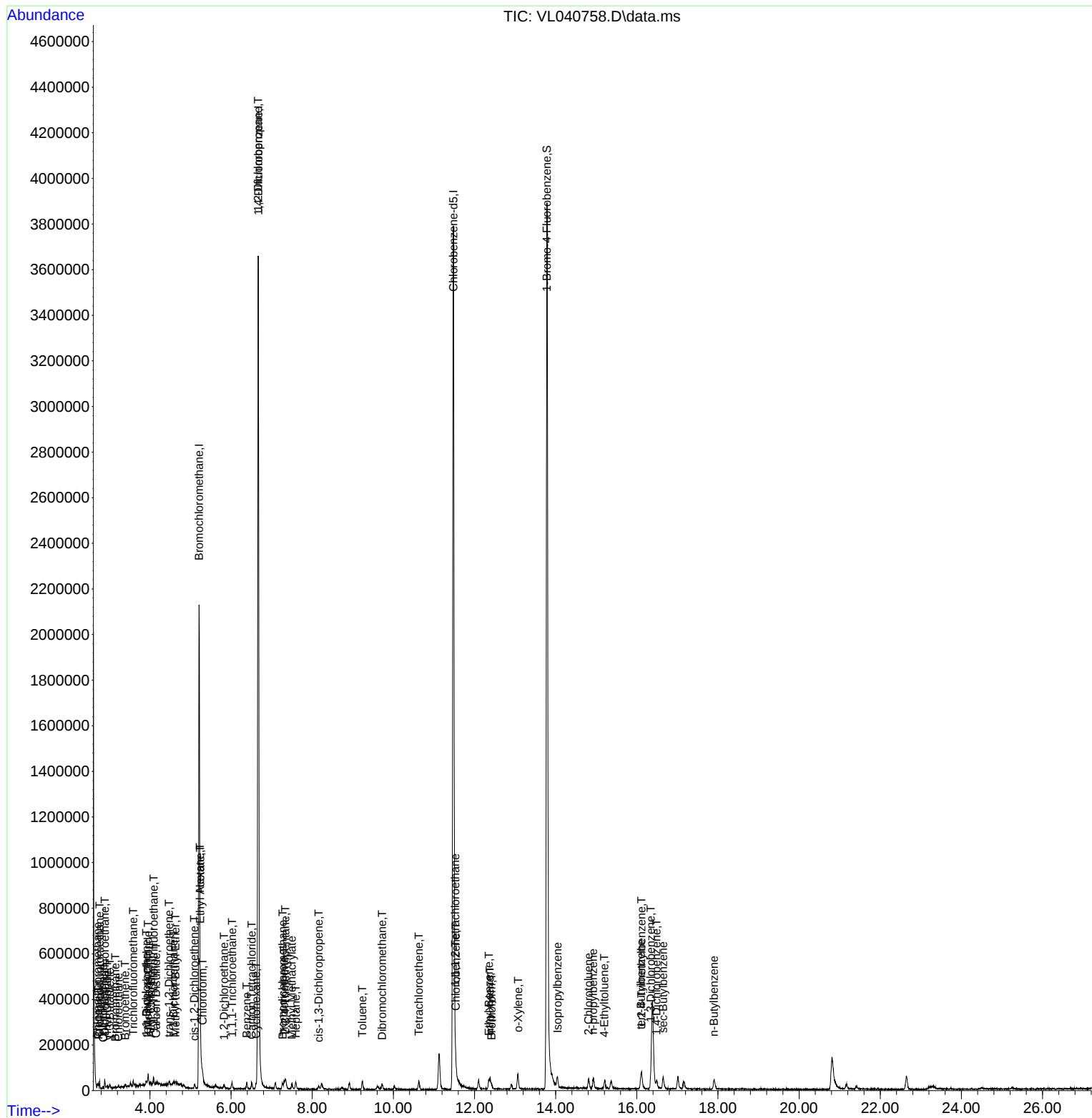
59) m/p-Xylene	12.378	91	9750	0.034	ppbv	#	1
60) o-Xylene	13.079	91	11397	0.042	ppbv	#	1
62) Isopropylbenzene	14.047	105	31873	0.076	ppbv	#	48
64) n-propylbenzene	14.921	120	3416	0.030	ppbv	#	1
65) tert-Butylbenzene	16.101	119	19353	0.051	ppbv	#	17
67) sec-Butylbenzene	16.648	105	27293	0.053	ppbv	#	57
70) n-Butylbenzene	17.899	91	17196	0.040	ppbv	#	32
71) 2-Chlorotoluene	14.812	91	17033	0.054	ppbv	#	39
72) 4-Ethyltoluene	15.201	105	18764	0.059	ppbv	#	63
74) 1,2,4-Trimethylbenzene	16.114	105	16505	0.054	ppbv		90
75) 1,3-Dichlorobenzene	16.346	146	9999	0.052	ppbv	#	1
76) 1,4-Dichlorobenzene	16.487	146	9562	0.051	ppbv	#	21

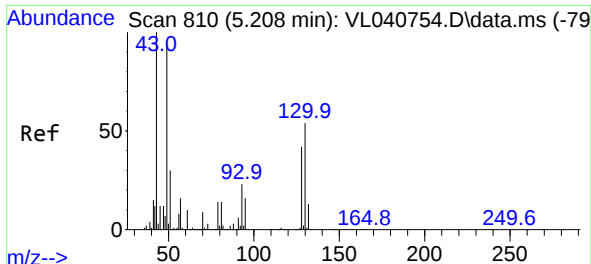
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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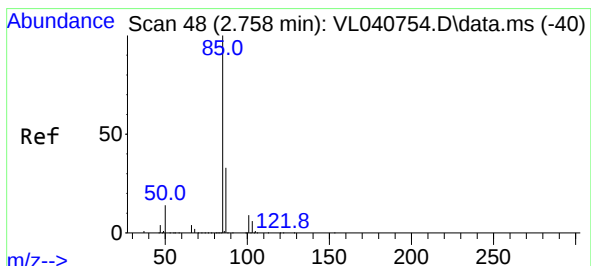
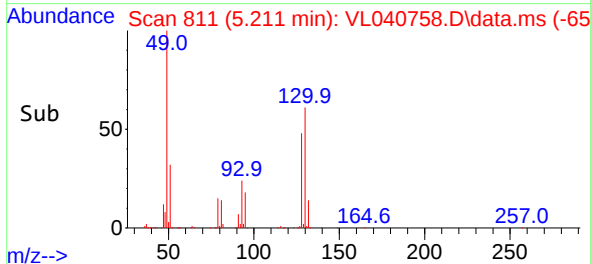
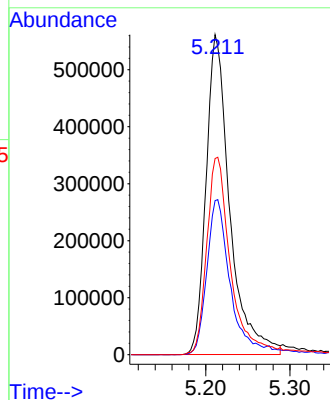
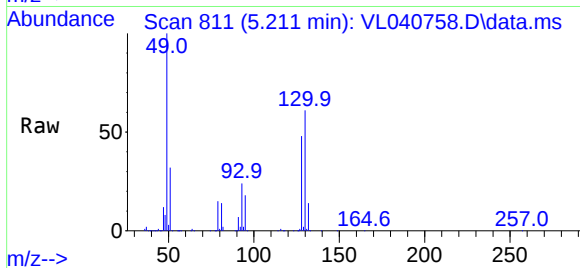




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.211 min Scan# 81
Delta R.T. 0.003 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

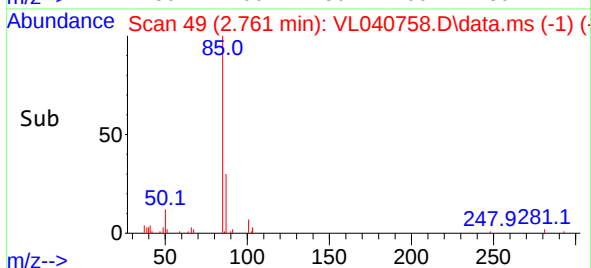
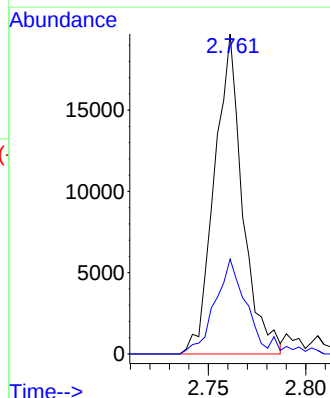
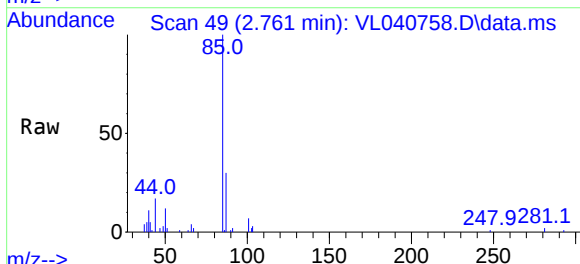
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

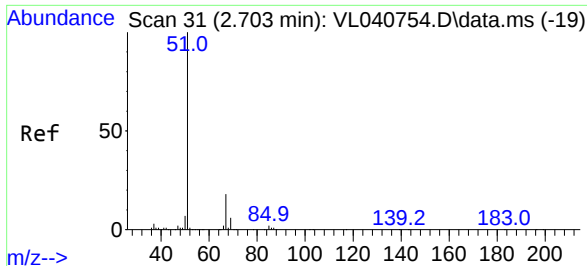
Tgt Ion: 49 Resp: 1097121
Ion Ratio Lower Upper
49 100
128 50.1 23.9 71.7
130 64.9 30.7 92.1



#2
Dichlorodifluoromethane
Concen: 0.102 ppbv
RT: 2.761 min Scan# 49
Delta R.T. 0.003 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

Tgt Ion: 85 Resp: 19769
Ion Ratio Lower Upper
85 100
87 29.7 26.0 39.0

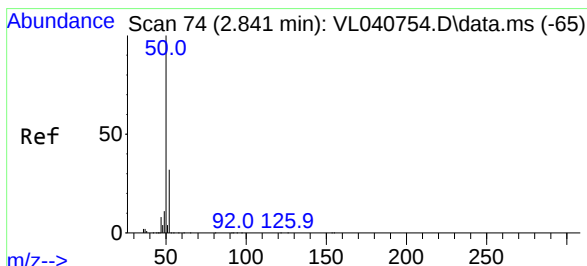
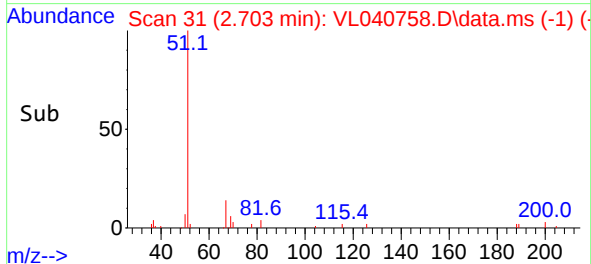
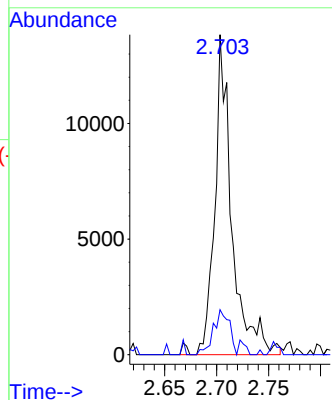
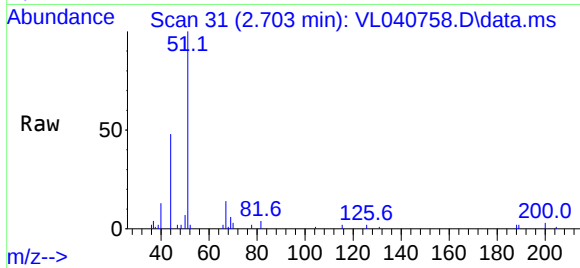




#3
Chlorodifluoromethane
Concen: 0.098 ppbv
RT: 2.703 min Scan# 31
Delta R.T. 0.000 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

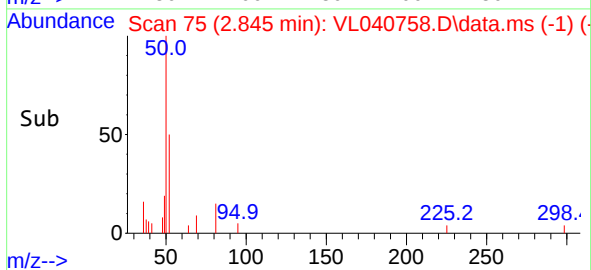
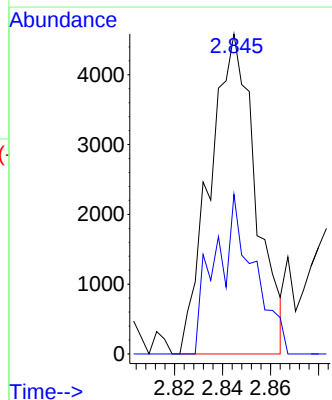
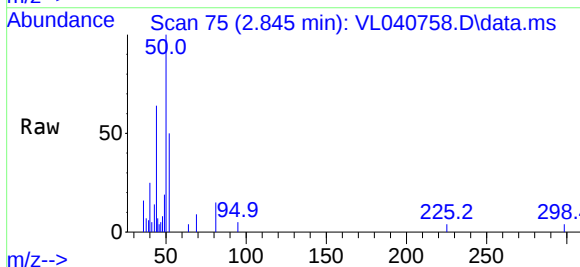
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

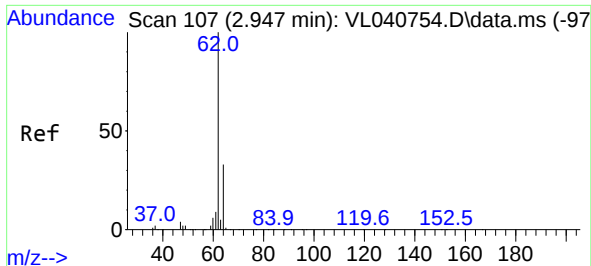
Tgt Ion: 51 Resp: 15839
Ion Ratio Lower Upper
51 100
67 15.9 13.8 20.6



#4
Chloromethane
Concen: 0.095 ppbv
RT: 2.845 min Scan# 75
Delta R.T. 0.003 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

Tgt Ion: 50 Resp: 6079
Ion Ratio Lower Upper
50 100
52 45.0 25.3 37.9#

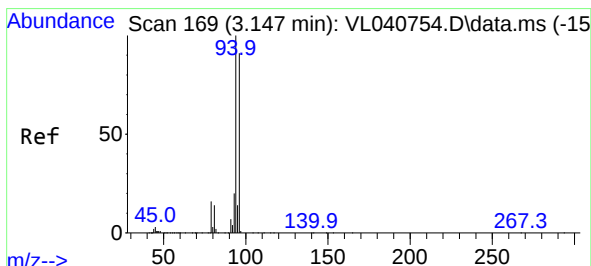
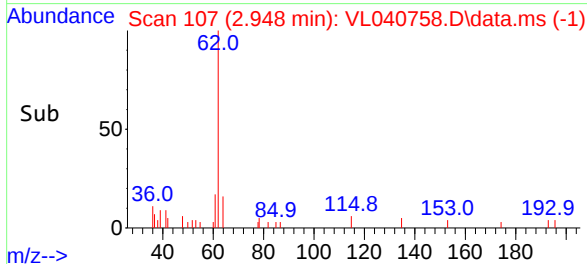
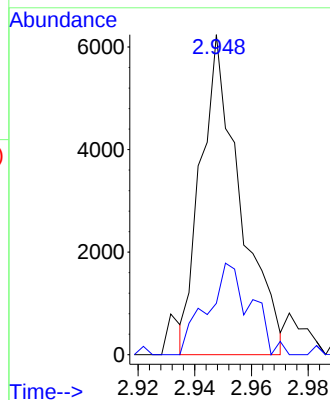
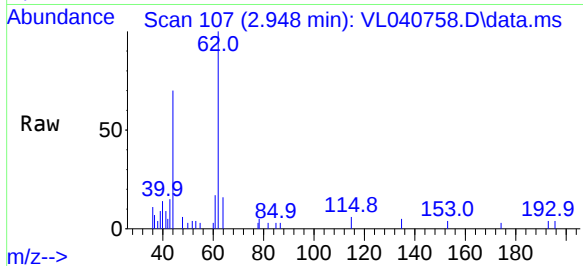




#5
 Vinyl Chloride
 Concen: 0.091 ppbv
 RT: 2.948 min Scan# 10
 Delta R.T. 0.000 min
 Lab File: VL040758.D
 Acq: 11 Oct 2023 14:33

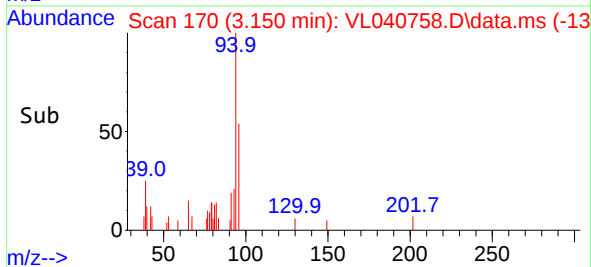
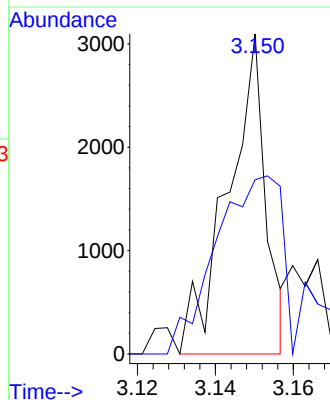
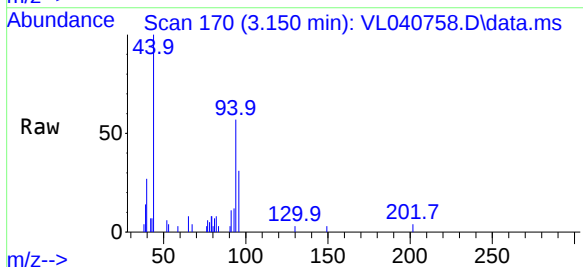
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

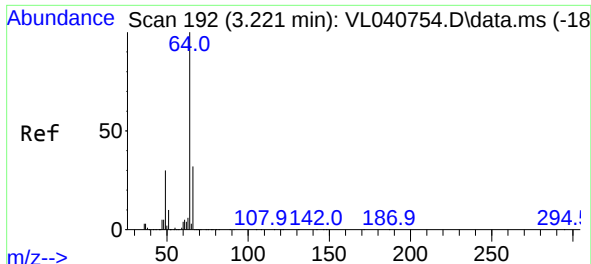
Tgt Ion: 62 Resp: 6013
 Ion Ratio Lower Upper
 62 100
 64 17.2 26.6 39.8#



#6
 Bromomethane
 Concen: 0.077 ppbv
 RT: 3.150 min Scan# 170
 Delta R.T. 0.003 min
 Lab File: VL040758.D
 Acq: 11 Oct 2023 14:33

Tgt Ion: 94 Resp: 2088
 Ion Ratio Lower Upper
 94 100
 96 43.0 72.6 109.0#

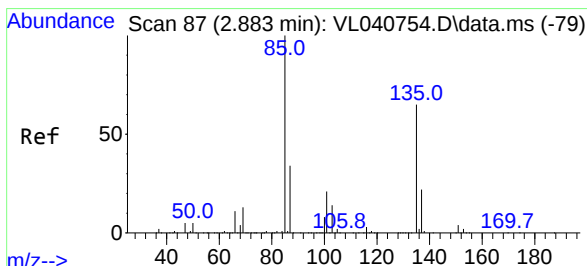
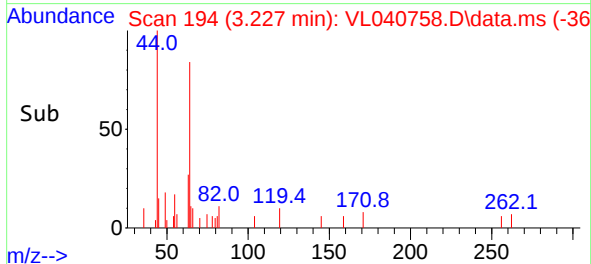
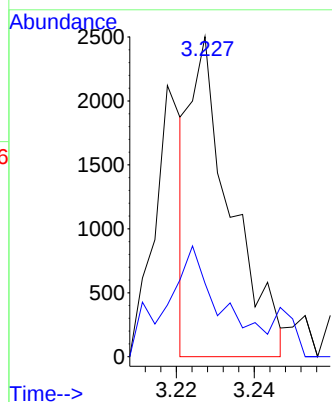
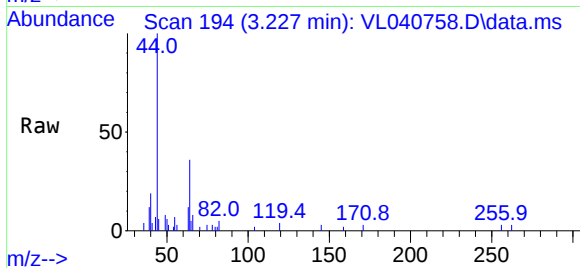




#7
Chloroethane
Concen: 0.084 ppbv
RT: 3.227 min Scan# 19
Delta R.T. 0.007 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

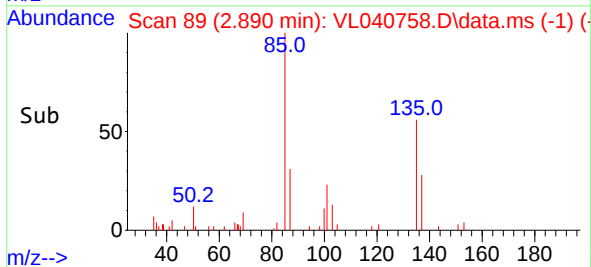
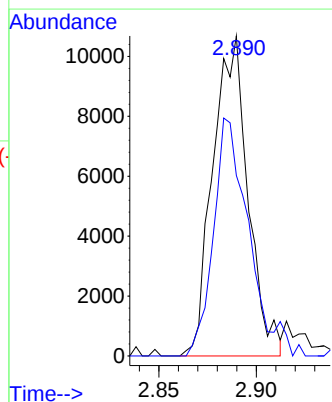
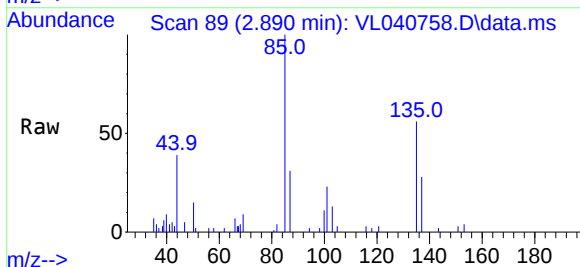
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

Tgt Ion: 64 Resp: 1802
Ion Ratio Lower Upper
64 100
66 20.3 25.4 38.2#

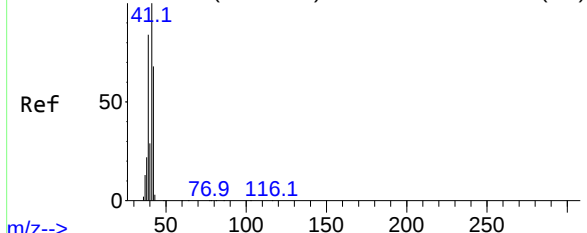


#8
Dichlorotetrafluoroethane
Concen: 0.092 ppbv
RT: 2.890 min Scan# 89
Delta R.T. 0.007 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

Tgt Ion: 85 Resp: 13403
Ion Ratio Lower Upper
85 100
135 74.6 55.4 83.2



Abundance Scan 37 (2.722 min): VL040754.D\data.ms (-27)



#9

Propene

Concen: 0.128 ppbv

RT: 2.729 min Scan# 39

Delta R.T. 0.007 min

Lab File: VL040758.D

Acq: 11 Oct 2023 14:33

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

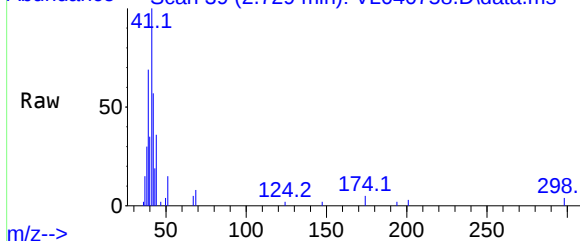
Tgt Ion: 41 Resp: 7688

Ion Ratio Lower Upper

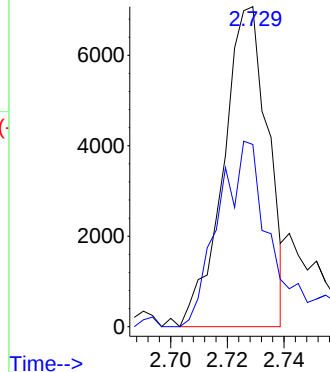
41 100

42 80.2 57.1 85.7

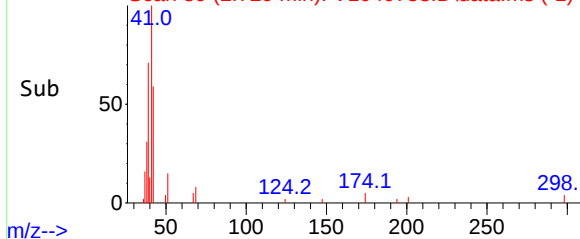
Abundance Scan 39 (2.729 min): VL040758.D\data.ms



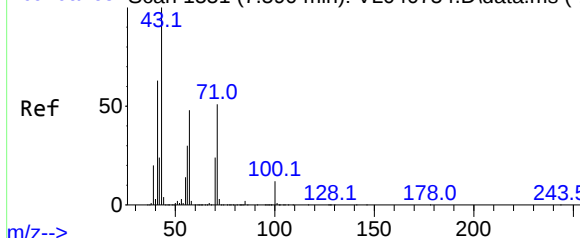
Abundance



Abundance Scan 39 (2.729 min): VL040758.D\data.ms (-1)



Abundance Scan 1551 (7.590 min): VL040754.D\data.ms (-1)



#10

Heptane

Concen: 0.059 ppbv

RT: 7.594 min Scan# 1552

Delta R.T. 0.003 min

Lab File: VL040758.D

Acq: 11 Oct 2023 14:33

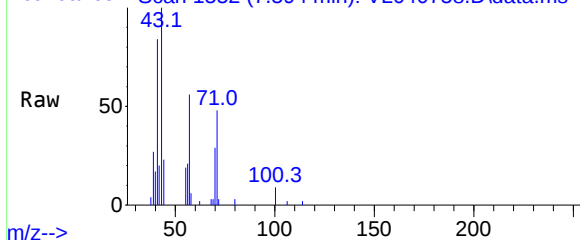
Tgt Ion: 43 Resp: 8904

Ion Ratio Lower Upper

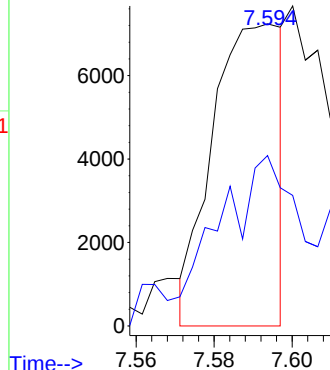
43 100

57 95.8 40.0 60.0#

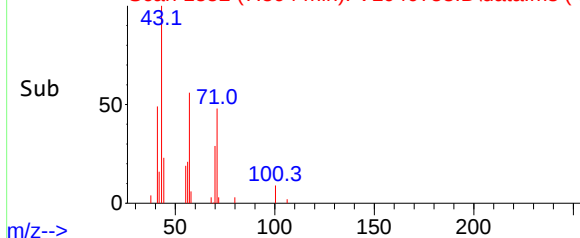
Abundance Scan 1552 (7.594 min): VL040758.D\data.ms

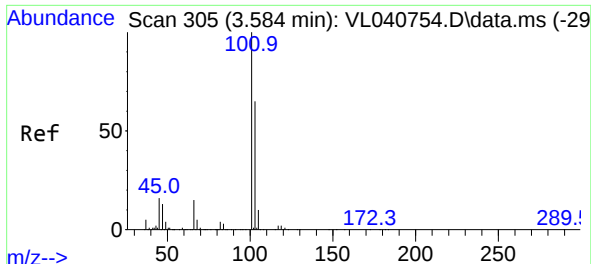


Abundance



Abundance Scan 1552 (7.594 min): VL040758.D\data.ms (-1)

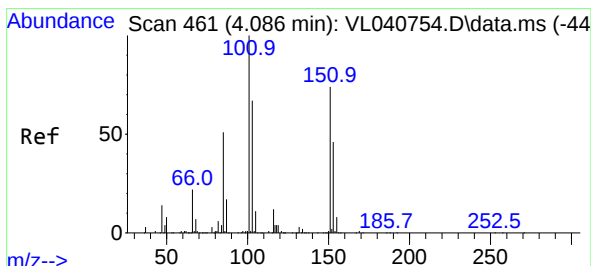
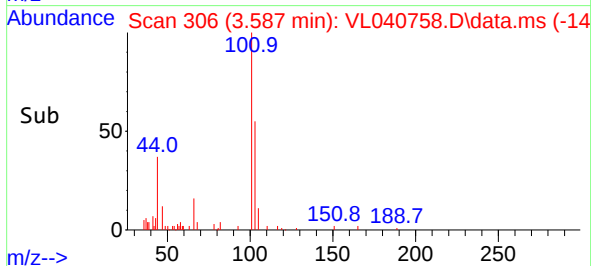
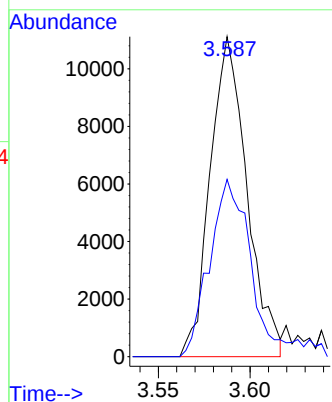
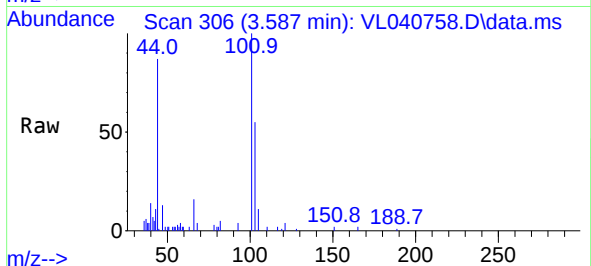




#11
 Trichlorofluoromethane
 Concen: 0.104 ppbv
 RT: 3.587 min Scan# 305
 Delta R.T. 0.003 min
 Lab File: VL040758.D
 Acq: 11 Oct 2023 14:33

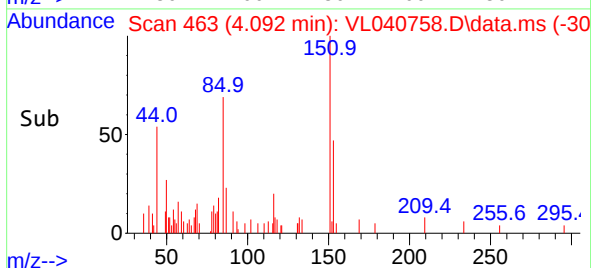
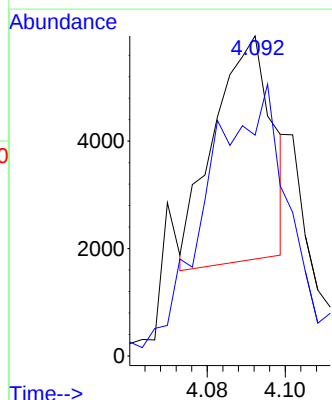
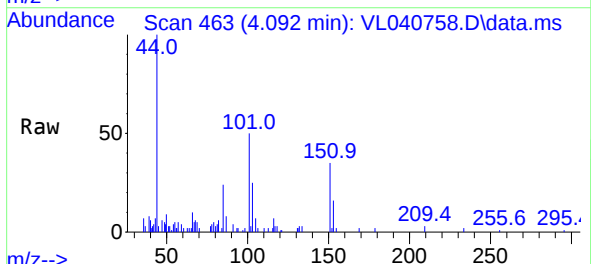
Instrument :
 MSVOA_1
 ClientSampleId :
 VSTDIC0.1

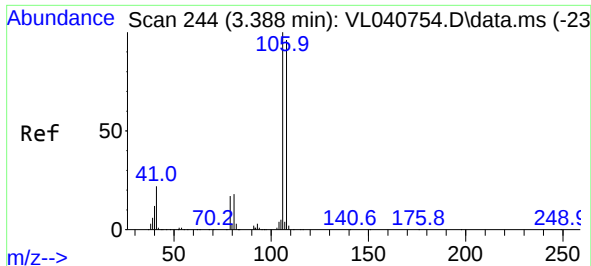
Tgt Ion:101 Resp: 15463
 Ion Ratio Lower Upper
 101 100
 103 55.4 52.2 78.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.041 ppbv
 RT: 4.092 min Scan# 463
 Delta R.T. 0.007 min
 Lab File: VL040758.D
 Acq: 11 Oct 2023 14:33

Tgt Ion:101 Resp: 4344
 Ion Ratio Lower Upper
 101 100
 151 178.9 58.1 87.1#

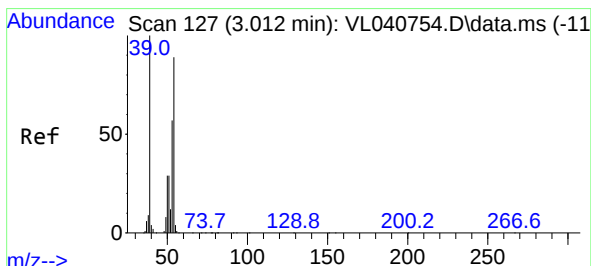
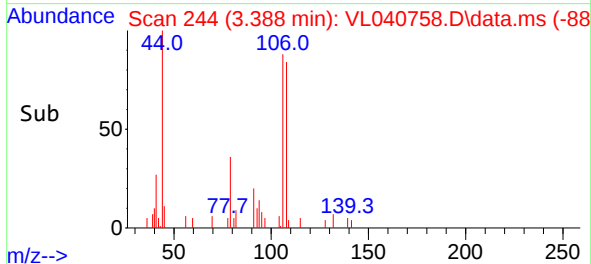
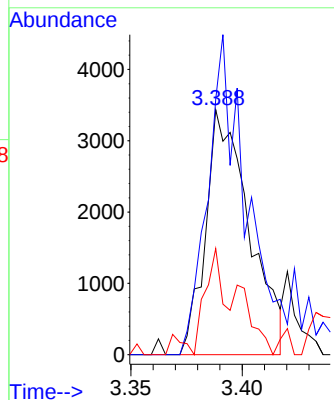
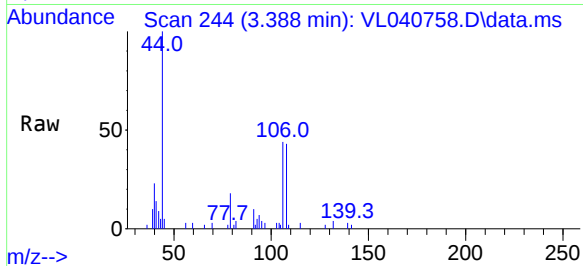




#14
Bromoethene
Concen: 0.102 ppbv
RT: 3.388 min Scan# 244
Delta R.T. 0.000 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

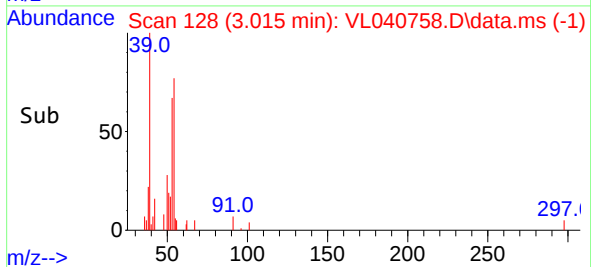
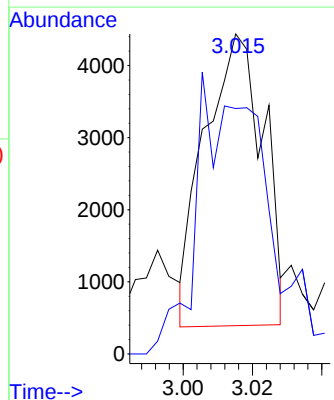
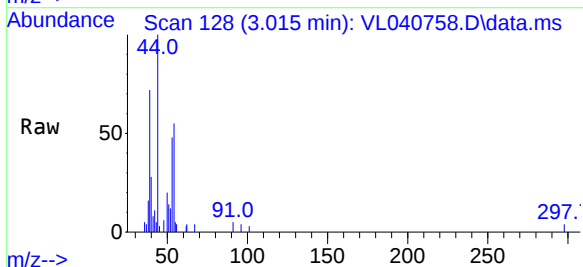
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

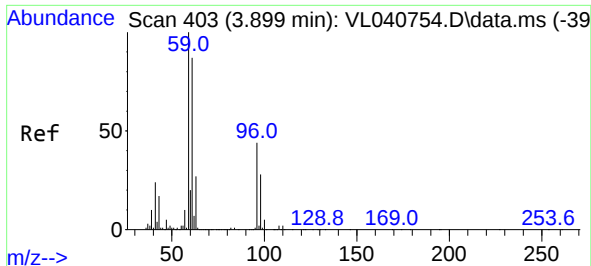
Tgt Ion:108 Resp: 4666
Ion Ratio Lower Upper
108 100
106 132.4 85.2 127.8#
79 38.6 15.7 23.5#



#16
1,3-Butadiene
Concen: 0.080 ppbv
RT: 3.015 min Scan# 128
Delta R.T. 0.003 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

Tgt Ion: 39 Resp: 4776
Ion Ratio Lower Upper
39 100
54 114.1 63.0 94.6#





#17

tert-Butyl alcohol

Concen: 0.035 ppbv

RT: 3.925 min Scan# 411

Delta R.T. 0.026 min

Lab File: VL040758.D

Acq: 11 Oct 2023 14:33

Instrument :

MSVOA_1

ClientSampleId :

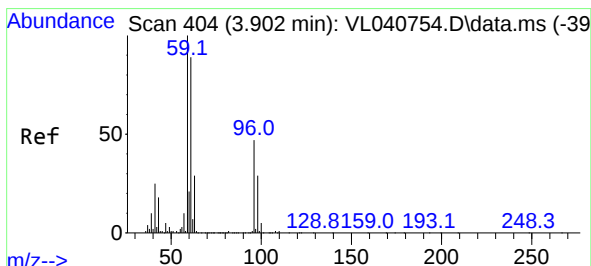
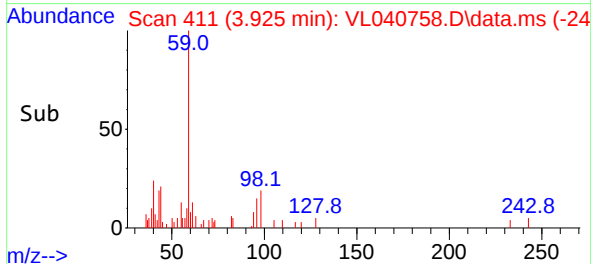
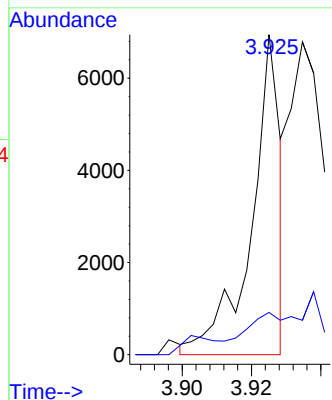
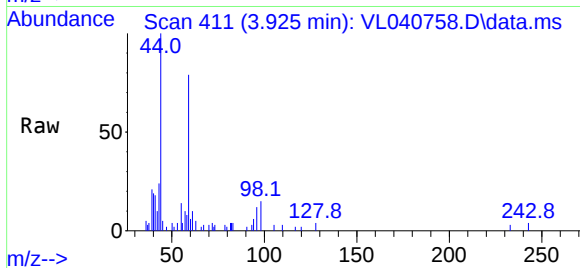
VSTDIC0.1

Tgt Ion: 59 Resp: 4039

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



#18

1,1-Dichloroethene

Concen: 0.099 ppbv

RT: 3.909 min Scan# 406

Delta R.T. 0.007 min

Lab File: VL040758.D

Acq: 11 Oct 2023 14:33

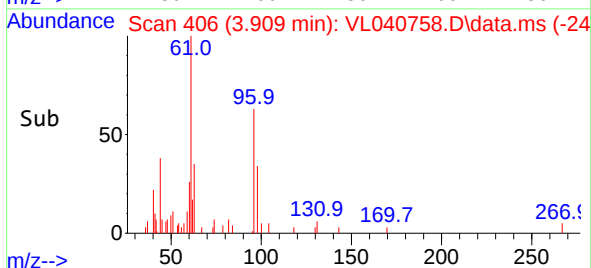
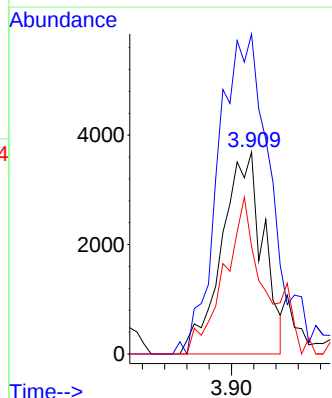
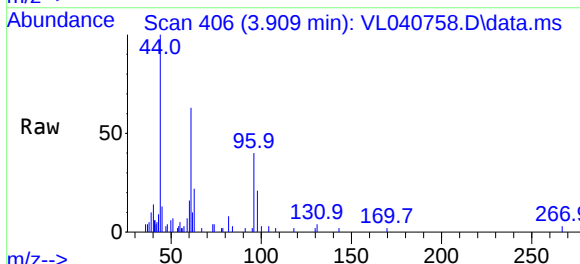
Tgt Ion: 96 Resp: 4742

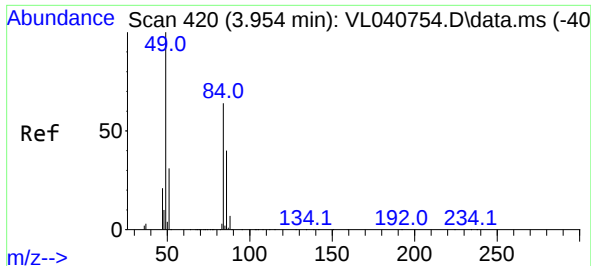
Ion Ratio Lower Upper

96 100

61 178.6 152.5 228.7

98 53.2 49.6 74.4

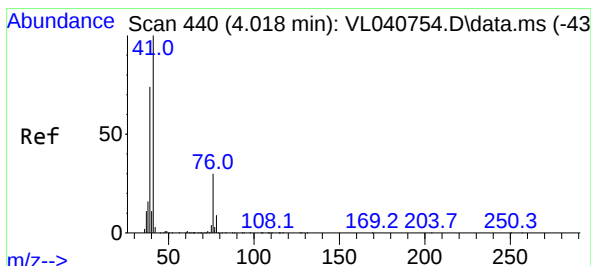
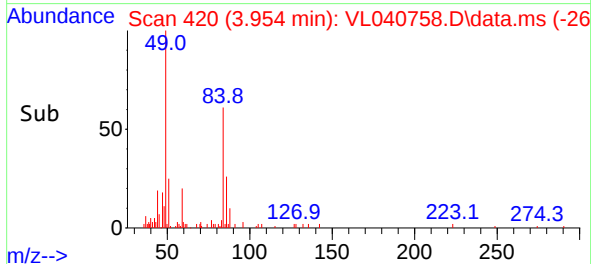
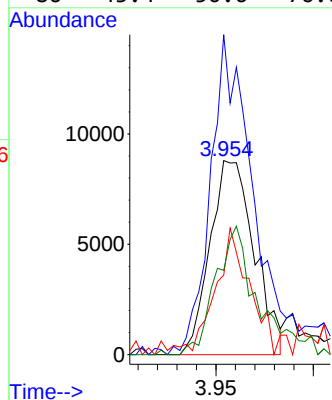
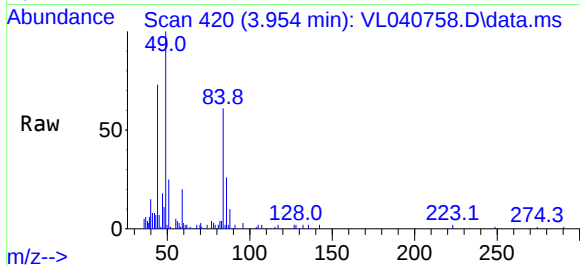




#20
Methylene Chloride
Concen: 0.295 ppbv
RT: 3.954 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

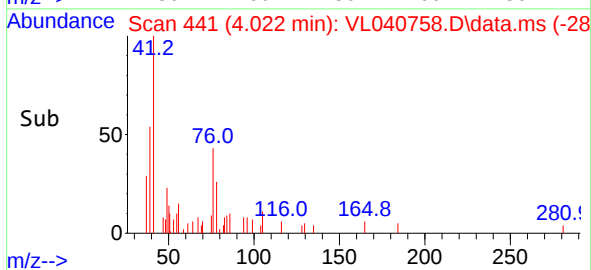
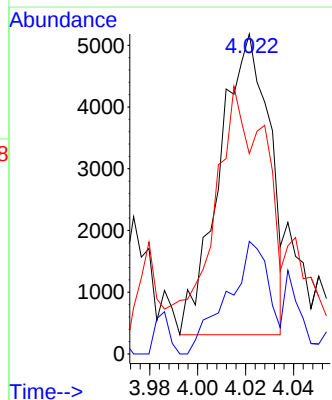
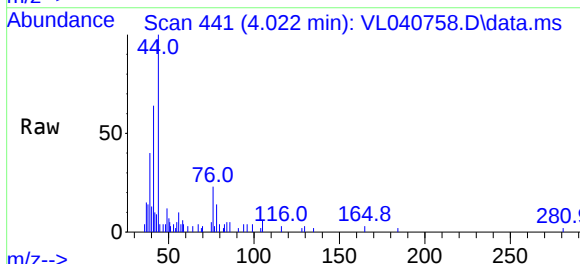
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

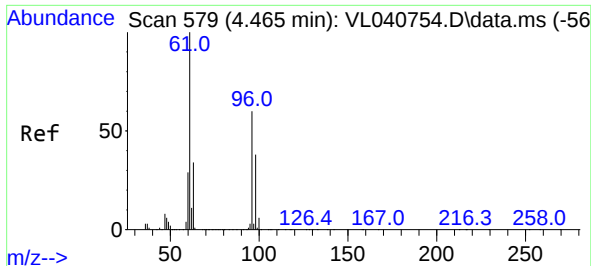
Tgt Ion: 84 Resp: 13931
Ion Ratio Lower Upper
84 100
49 166.4 125.6 188.4
51 37.0 38.9 58.3#
86 43.4 50.6 76.0#



#21
Allyl Chloride
Concen: 0.094 ppbv
RT: 4.022 min Scan# 441
Delta R.T. 0.003 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

Tgt Ion: 41 Resp: 7058
Ion Ratio Lower Upper
41 100
76 44.6 24.1 36.1#
39 114.3 63.8 95.6#

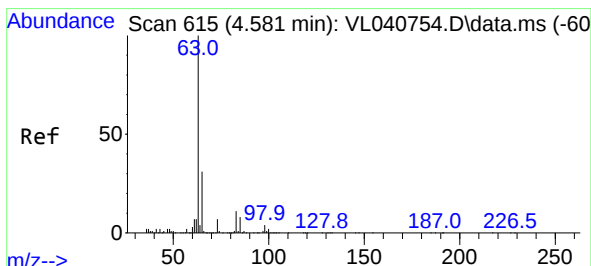
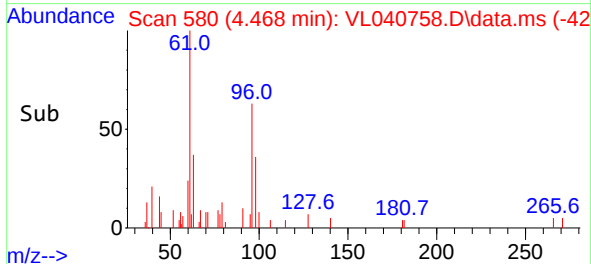
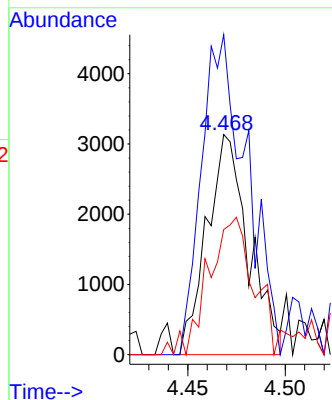
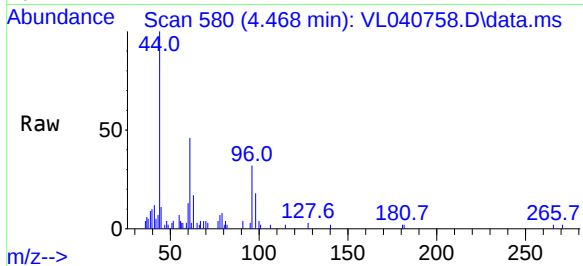




#22
trans-1,2-Dichloroethene
Concen: 0.092 ppbv
RT: 4.468 min Scan# 51
Delta R.T. 0.003 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

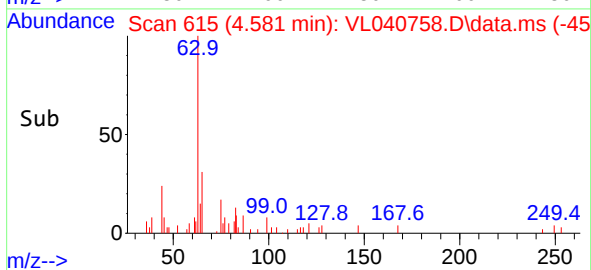
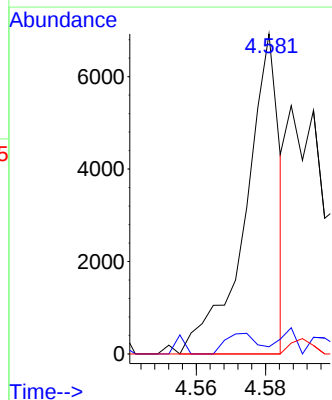
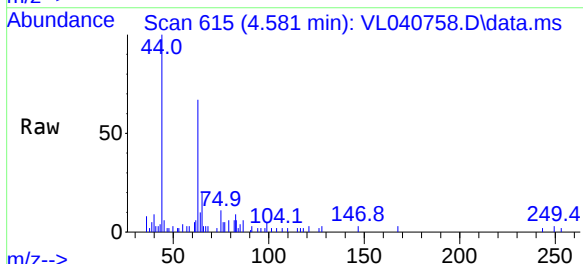
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

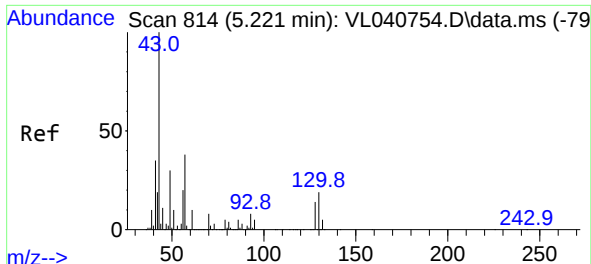
Tgt Ion: 96 Resp: 4668
Ion Ratio Lower Upper
96 100
61 155.9 134.0 201.0
98 46.0 51.0 76.4#



#24
1,1-Dichloroethane
Concen: 0.043 ppbv
RT: 4.581 min Scan# 615
Delta R.T. 0.000 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

Tgt Ion: 63 Resp: 4737
Ion Ratio Lower Upper
63 100
98 0.0 2.0 5.8#
100 0.0 1.3 3.8#

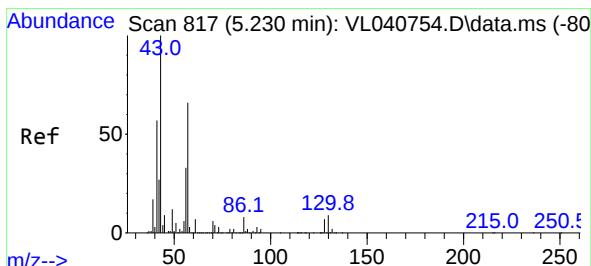
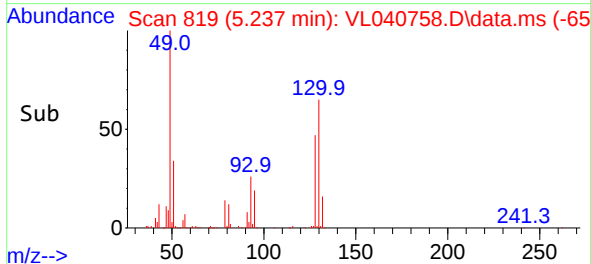
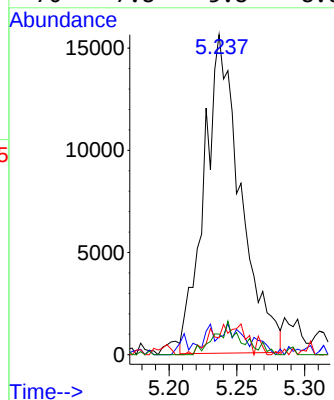
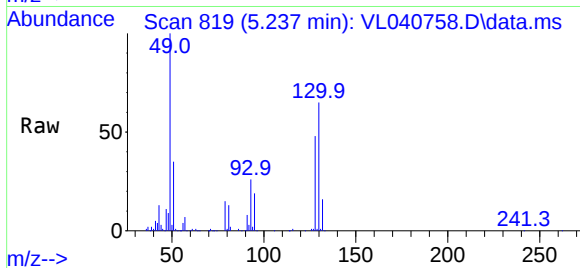




#25
Ethyl Acetate
Concen: 0.117 ppbv
RT: 5.237 min Scan# 814
Delta R.T. 0.016 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

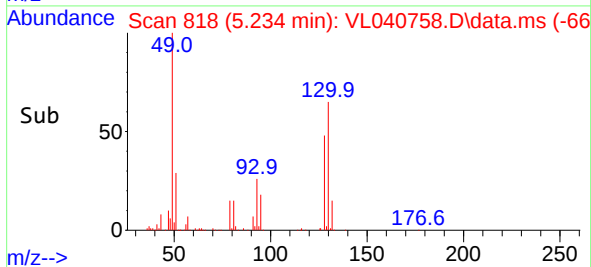
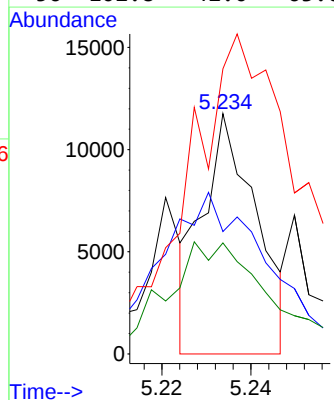
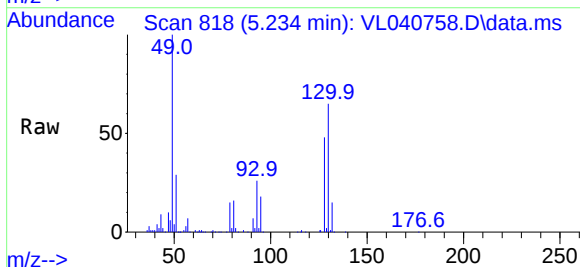
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

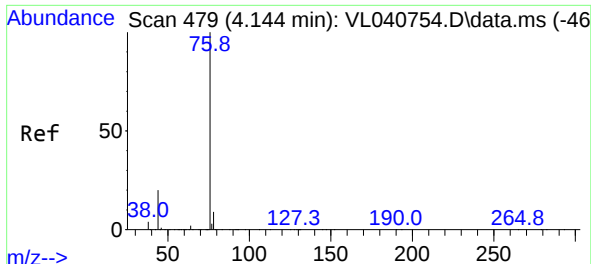
Tgt Ion: 43	Resp: 29176
Ion Ratio	Lower Upper
43 100	
45 13.1	8.2 12.4#
61 9.2	8.2 12.2
70 7.8	5.8 8.6



#26
Hexane
Concen: 0.087 ppbv
RT: 5.234 min Scan# 818
Delta R.T. 0.003 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

Tgt Ion: 57	Resp: 9880
Ion Ratio	Lower Upper
57 100	
41 162.2	71.4 107.2#
43 334.6	182.3 273.5#
56 102.8	42.0 63.0#





#27

Carbon Disulfide

Concen: 0.091 ppbv

RT: 4.153 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL040758.D

Acq: 11 Oct 2023 14:33

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

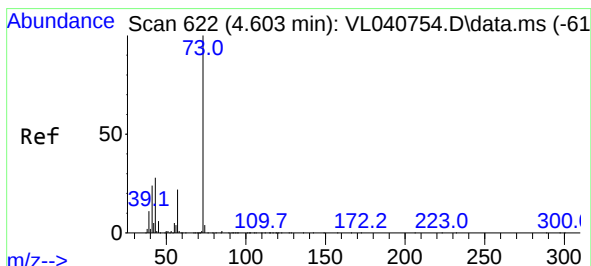
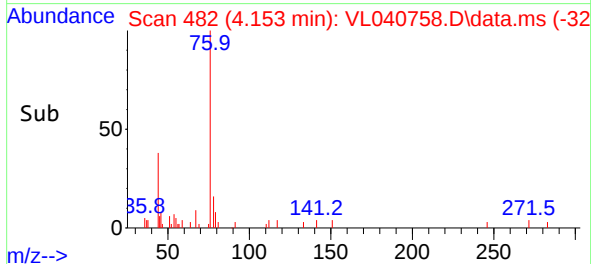
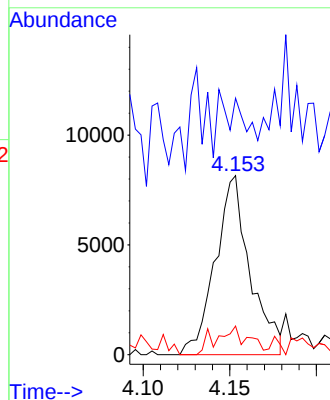
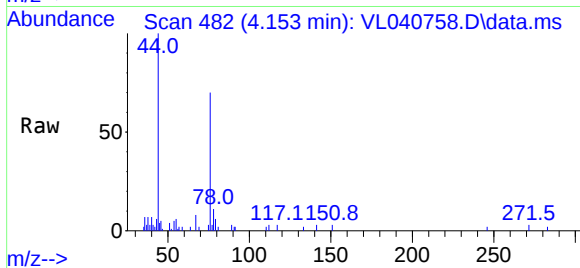
Tgt Ion: 76 Resp: 11370

Ion Ratio Lower Upper

76 100

44 48.6 16.6 25.0#

78 10.4 7.8 11.6



#28

Methyl tert-Butyl Ether

Concen: 0.077 ppbv

RT: 4.626 min Scan# 629

Delta R.T. 0.023 min

Lab File: VL040758.D

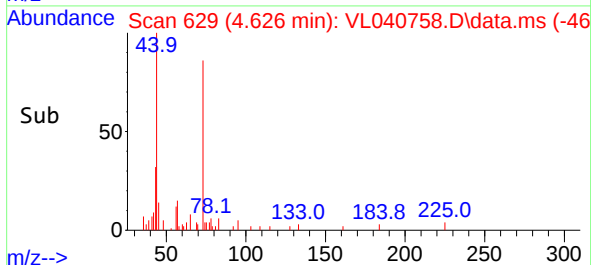
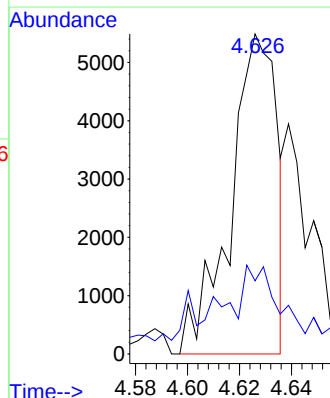
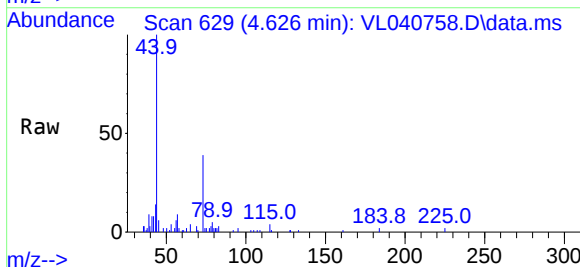
Acq: 11 Oct 2023 14:33

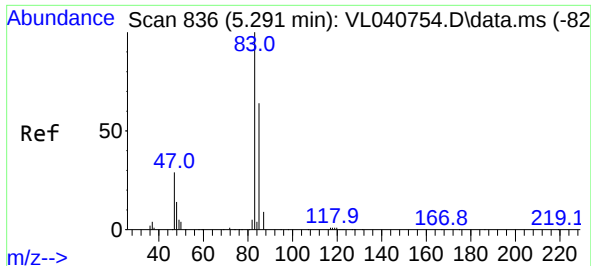
Tgt Ion: 73 Resp: 6789

Ion Ratio Lower Upper

73 100

57 51.1 18.9 28.3#





#29

Chloroform

Concen: 0.102 ppbv

RT: 5.295 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL040758.D

Acq: 11 Oct 2023 14:33

Instrument :

MSVOA_1

ClientSampleId :

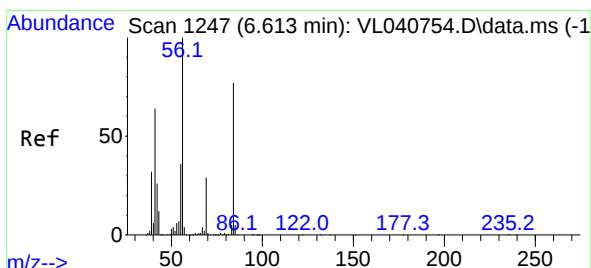
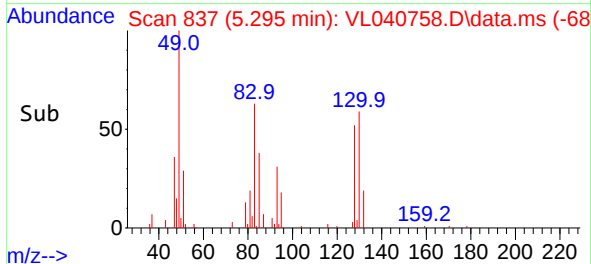
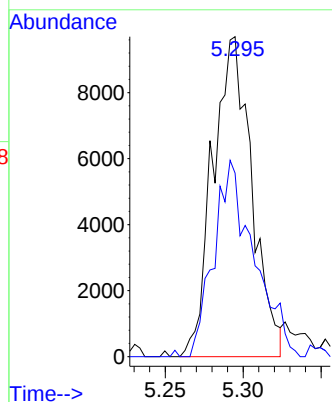
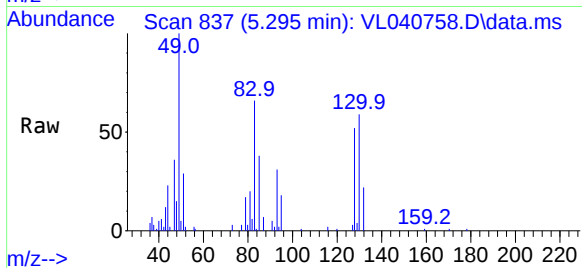
VSTDIC0.1

Tgt Ion: 83 Resp: 16768

Ion Ratio Lower Upper

83 100

85 56.2 51.3 76.9



#30

Cyclohexane

Concen: 0.035 ppbv

RT: 6.616 min Scan# 1248

Delta R.T. 0.003 min

Lab File: VL040758.D

Acq: 11 Oct 2023 14:33

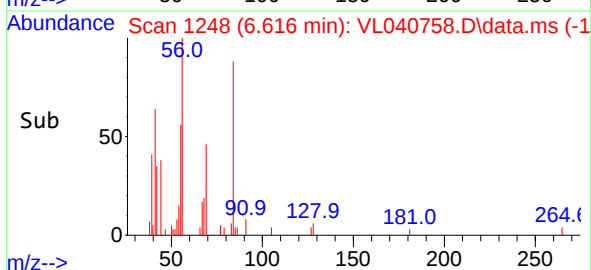
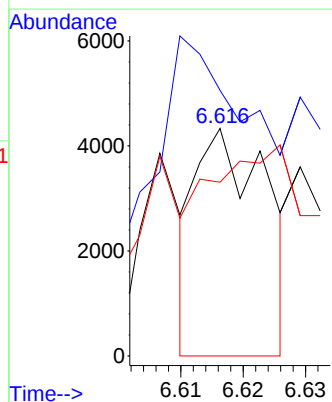
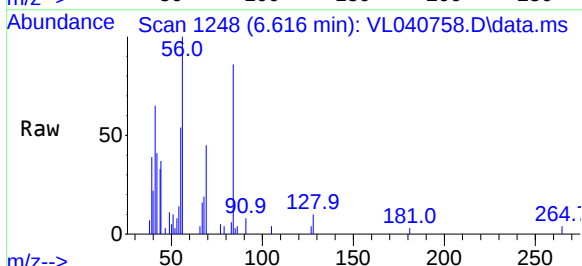
Tgt Ion: 84 Resp: 3407

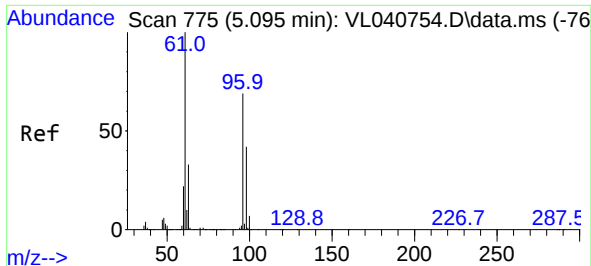
Ion Ratio Lower Upper

84 100

56 0.0 110.3 165.5#

41 0.0 67.4 101.2#

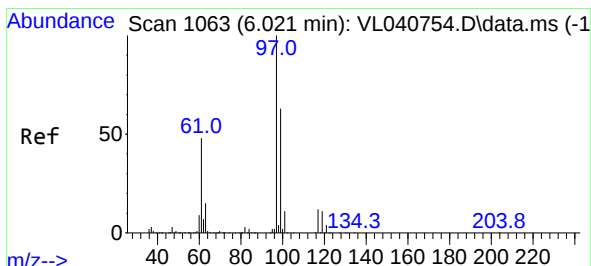
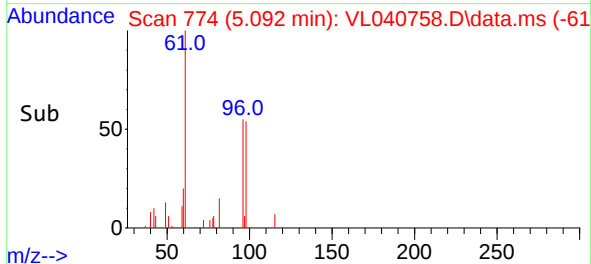
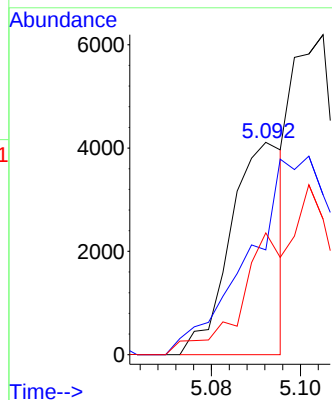
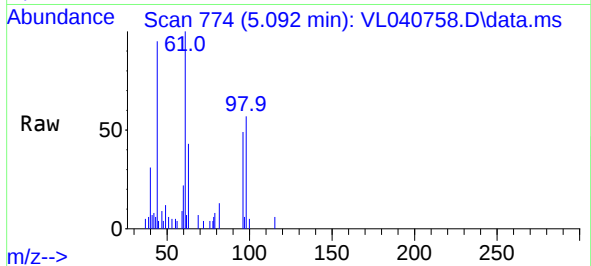




#31
 cis-1,2-Dichloroethene
 Concen: 0.032 ppbv
 RT: 5.092 min Scan# 71
 Delta R.T. -0.003 min
 Lab File: VL040758.D
 Acq: 11 Oct 2023 14:33

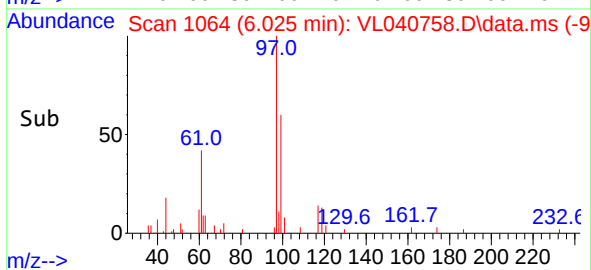
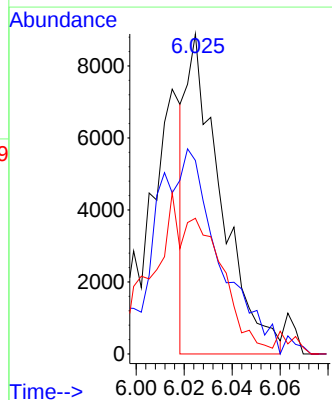
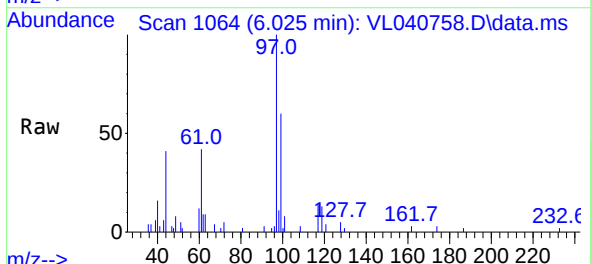
Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

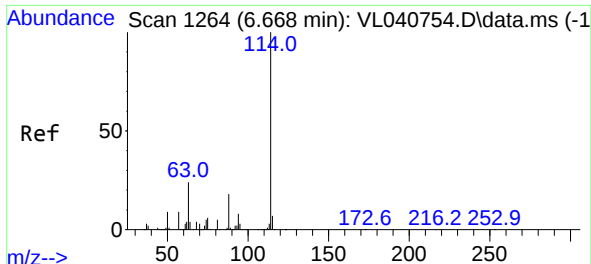
Tgt Ion: 61 Resp: 3391
 Ion Ratio Lower Upper
 61 100
 96 39.1 55.1 82.7#
 98 47.7 33.5 50.3



#32
 1,1,1-Trichloroethane
 Concen: 0.051 ppbv
 RT: 6.025 min Scan# 1064
 Delta R.T. 0.003 min
 Lab File: VL040758.D
 Acq: 11 Oct 2023 14:33

Tgt Ion: 97 Resp: 8959
 Ion Ratio Lower Upper
 97 100
 99 125.2 51.8 77.6#
 61 0.0 38.6 58.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.671 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL040758.D

Acq: 11 Oct 2023 14:33

Instrument :

MSVOA_1

ClientSampleId :

VSTDICC0.1

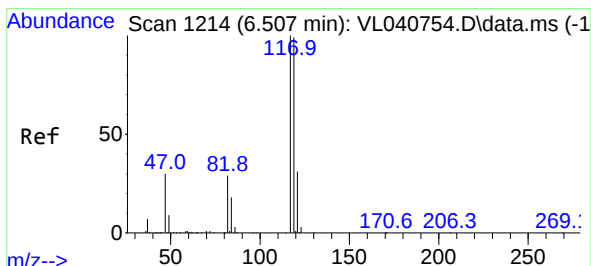
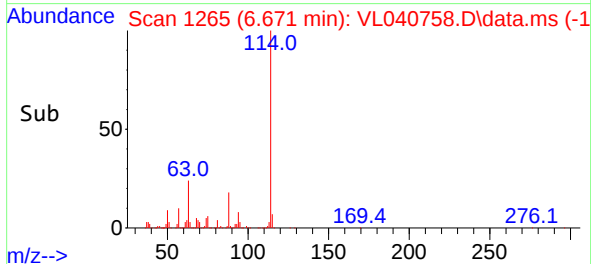
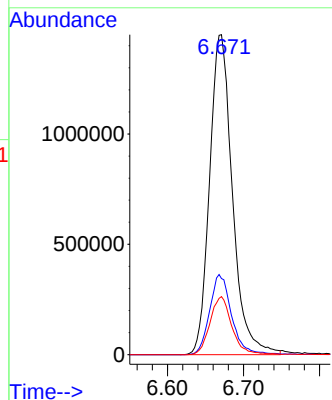
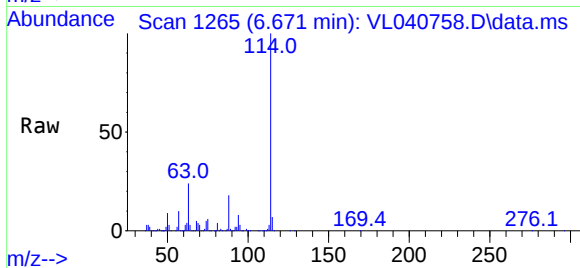
Tgt Ion:114 Resp: 3028043

Ion Ratio Lower Upper

114 100

63 24.4 19.8 29.6

88 17.6 14.2 21.2



#35

Carbon Tetrachloride

Concen: 0.036 ppbv

RT: 6.510 min Scan# 1215

Delta R.T. 0.003 min

Lab File: VL040758.D

Acq: 11 Oct 2023 14:33

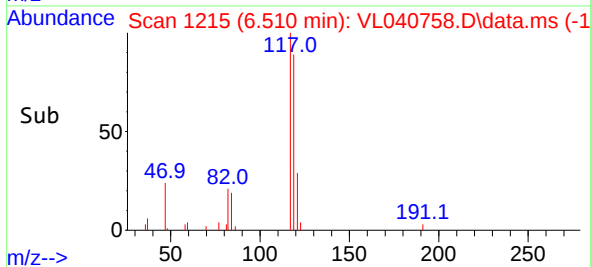
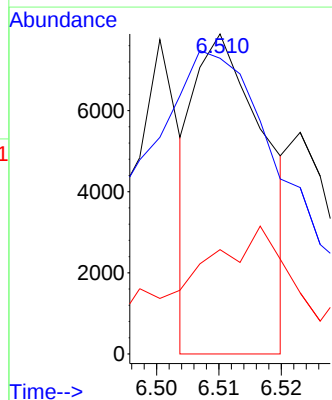
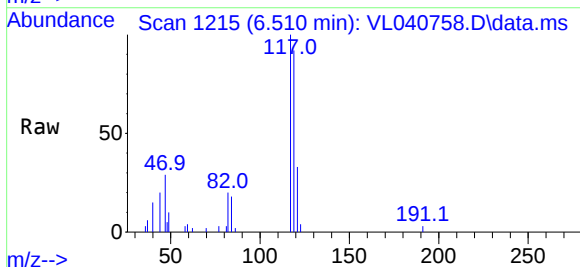
Tgt Ion:117 Resp: 6183

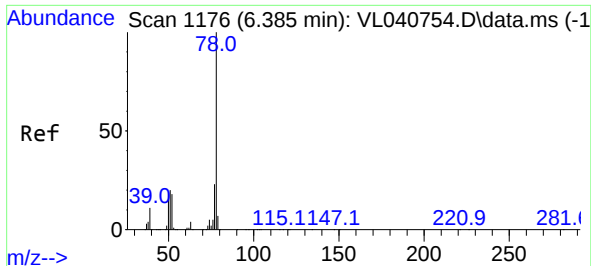
Ion Ratio Lower Upper

117 100

119 90.7 79.4 119.0

121 33.2 25.0 37.4

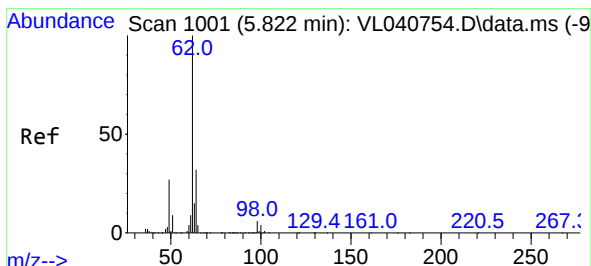
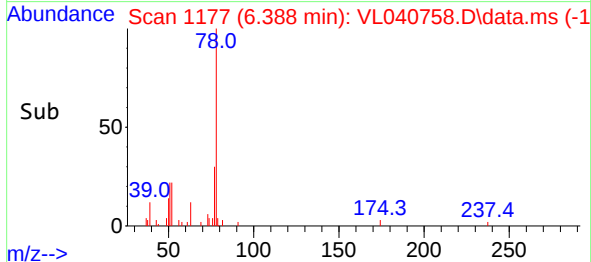
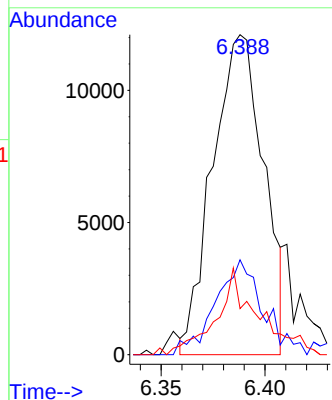
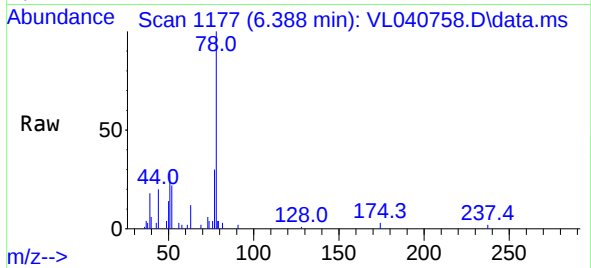




#36
Benzene
Concen: 0.089 ppbv
RT: 6.388 min Scan# 1177
Delta R.T. 0.003 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

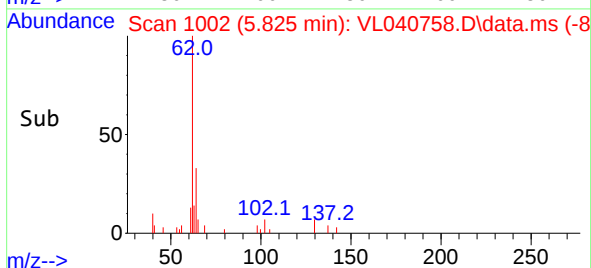
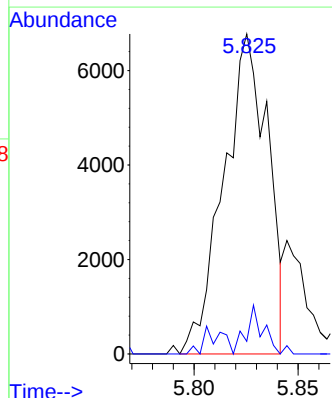
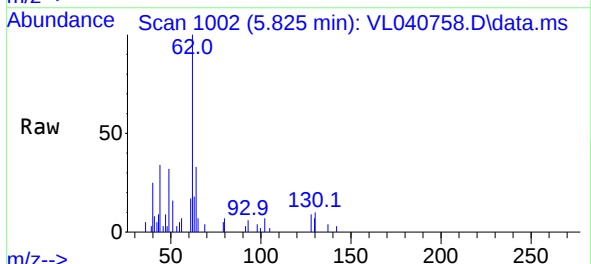
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

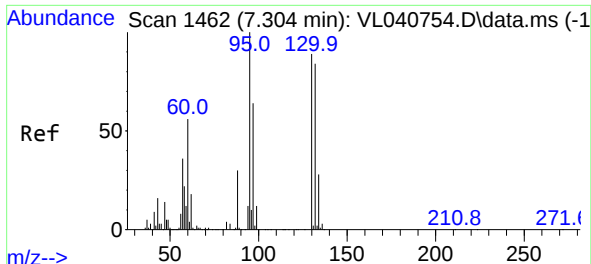
Tgt Ion: 78 Resp: 20687
Ion Ratio Lower Upper
78 100
77 28.1 18.4 27.6#
50 42.1 15.0 22.4#



#37
1,2-Dichloroethane
Concen: 0.084 ppbv
RT: 5.825 min Scan# 1002
Delta R.T. 0.003 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

Tgt Ion: 62 Resp: 9993
Ion Ratio Lower Upper
62 100
98 9.6 5.4 8.0#





#38

Trichloroethene

Concen: 0.039 ppbv

RT: 7.311 min Scan# 1462

Delta R.T. 0.007 min

Lab File: VL040758.D

Acq: 11 Oct 2023 14:33

Instrument :

MSVOA_1

ClientSampleId :

VSTDIC0.1

Tgt Ion:130 Resp: 4031

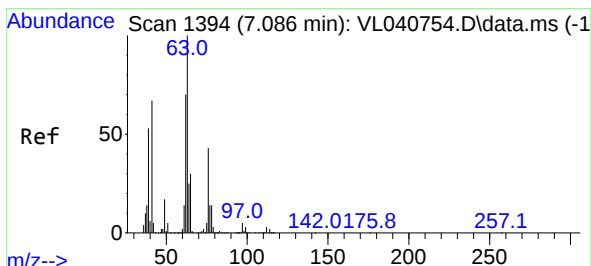
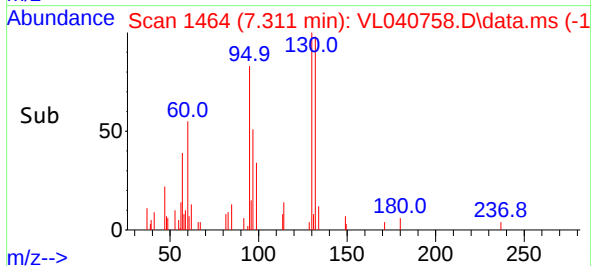
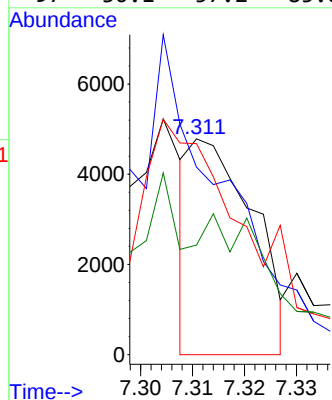
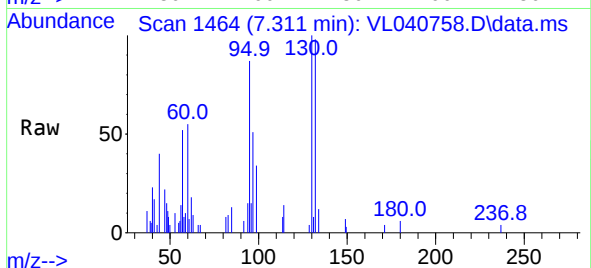
Ion Ratio Lower Upper

130 100

95 73.1 89.4 134.2#

132 50.7 74.8 112.2#

97 30.1 57.2 85.8#



#39

1,2-Dichloropropane

Concen: 8.028 ppbv

RT: 6.668 min Scan# 1264

Delta R.T. -0.418 min

Lab File: VL040758.D

Acq: 11 Oct 2023 14:33

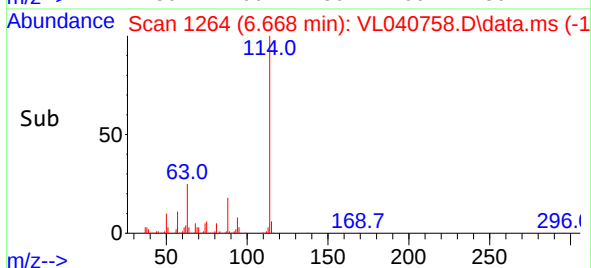
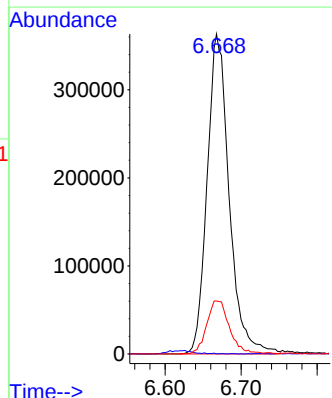
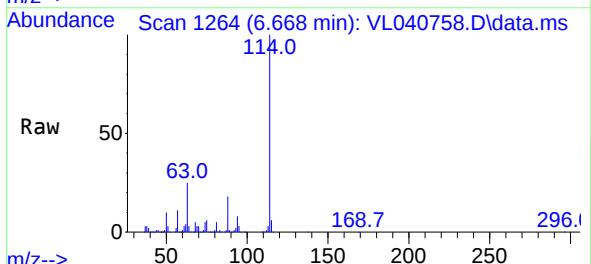
Tgt Ion: 63 Resp: 730453

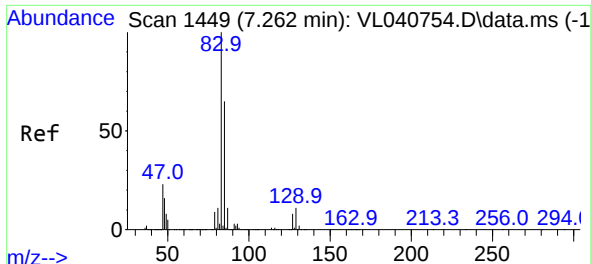
Ion Ratio Lower Upper

63 100

41 0.0 53.7 80.5#

62 16.5 55.7 83.5#

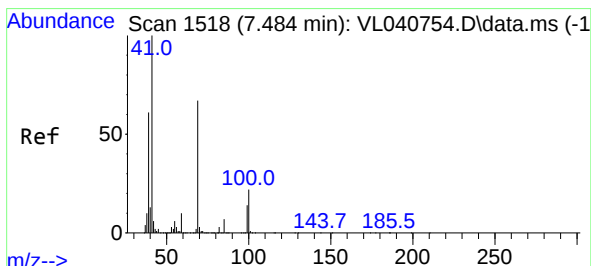
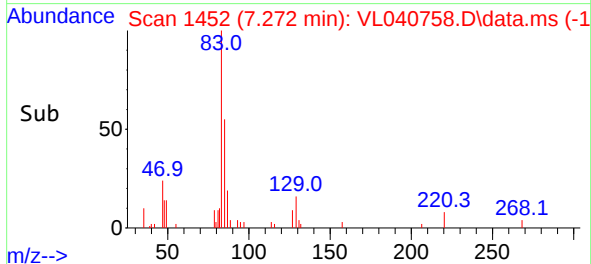
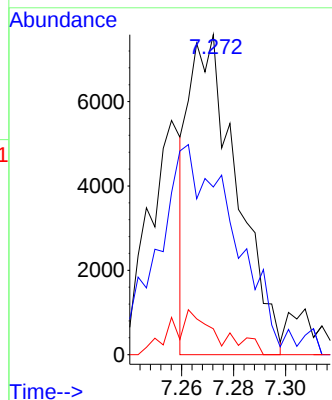
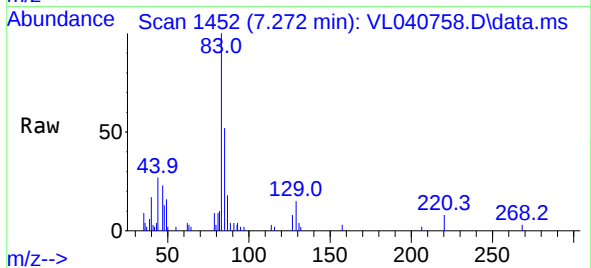




#42
Bromodichloromethane
Concen: 0.054 ppbv
RT: 7.272 min Scan# 1449
Delta R.T. 0.010 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

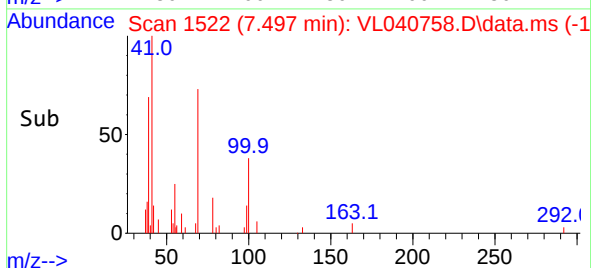
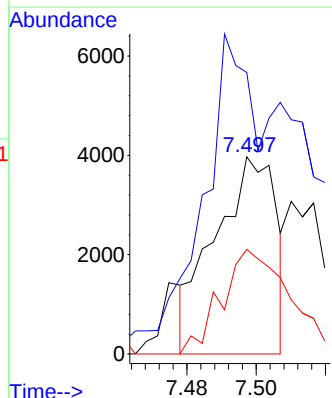
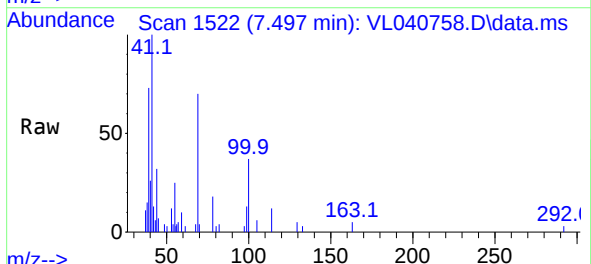
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

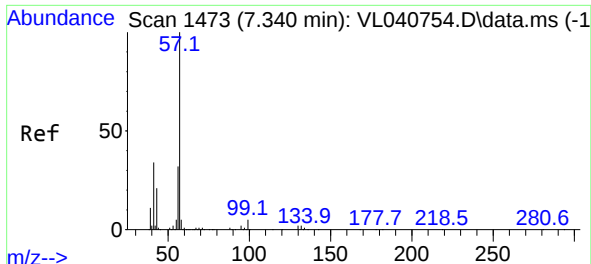
Tgt Ion: 83 Resp: 9694
Ion Ratio Lower Upper
83 100
85 51.9 52.1 78.1#
127 8.4 6.7 10.1



#43
Methyl Methacrylate
Concen: 0.052 ppbv
RT: 7.497 min Scan# 1522
Delta R.T. 0.013 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

Tgt Ion: 69 Resp: 4865
Ion Ratio Lower Upper
69 100
41 302.0 120.6 181.0#
100 70.0 27.1 40.7#





#44

2,2,4-Trimethylpentane

Concen: 0.101 ppbv

RT: 7.337 min Scan# 1473

Delta R.T. -0.003 min

Lab File: VL040758.D

Acq: 11 Oct 2023 14:33

Instrument :

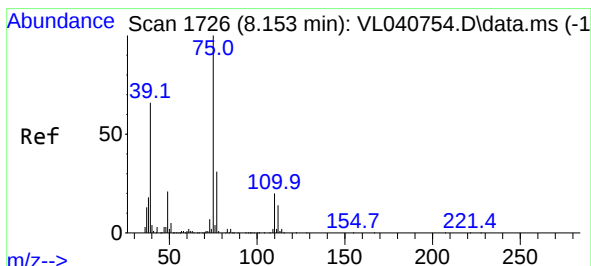
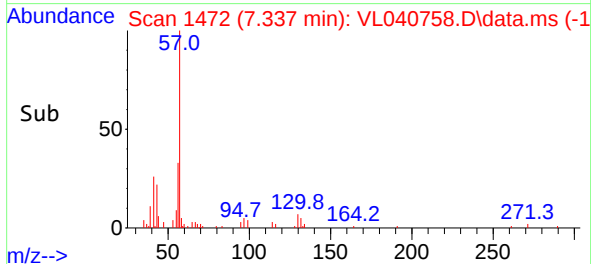
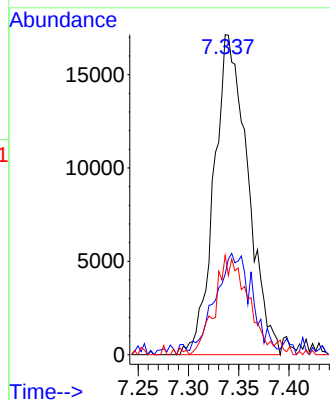
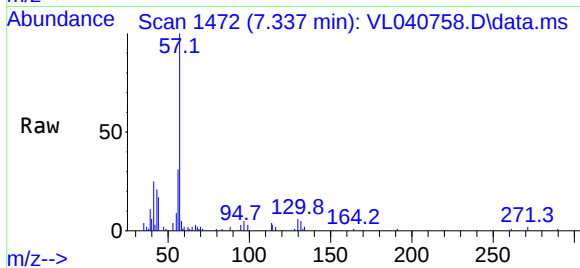
MSVOA_1

ClientSampleId :

VSTDIC0.1

Tgt Ion: 57 Resp: 39914

Ion	Ratio	Lower	Upper
57	100		
41	35.5	27.4	41.0
56	32.0	25.0	37.6



#46

cis-1,3-Dichloropropene

Concen: 0.084 ppbv

RT: 8.163 min Scan# 1729

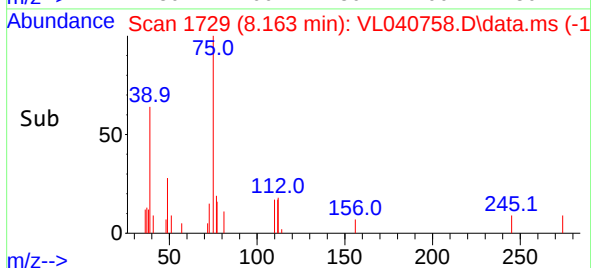
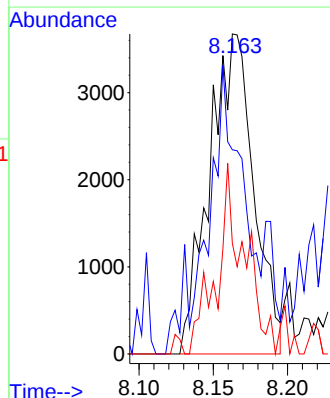
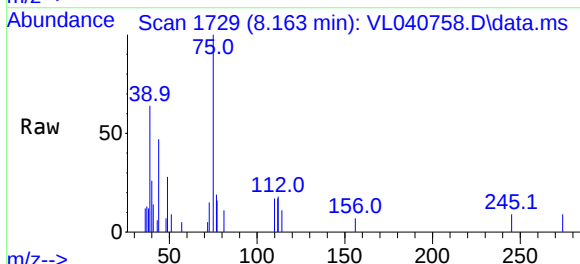
Delta R.T. 0.010 min

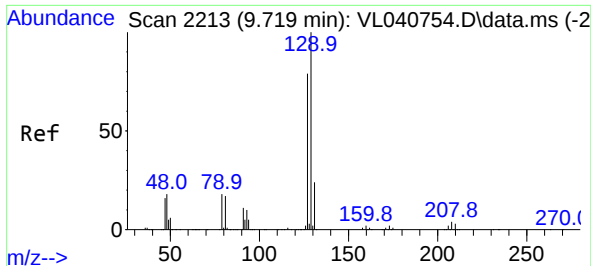
Lab File: VL040758.D

Acq: 11 Oct 2023 14:33

Tgt Ion: 75 Resp: 7656

Ion	Ratio	Lower	Upper
75	100		
39	57.1	52.4	78.6
77	29.9	25.1	37.7

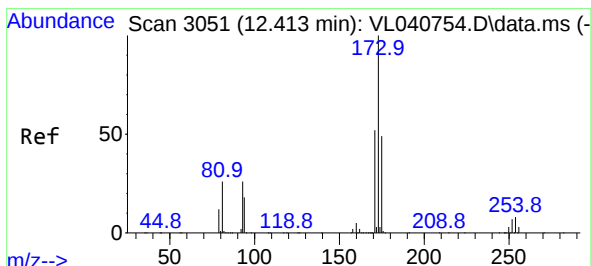
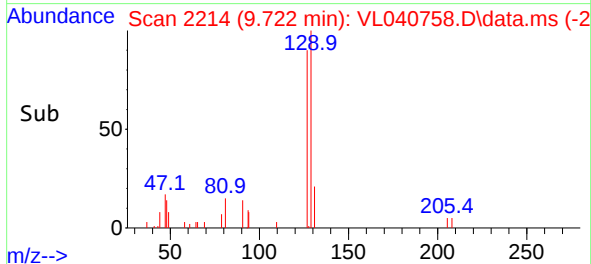
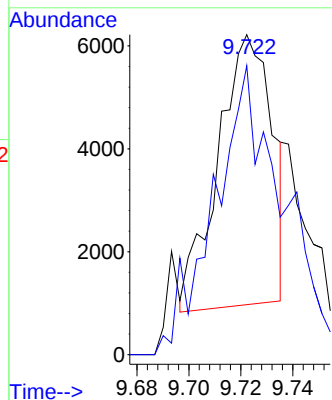
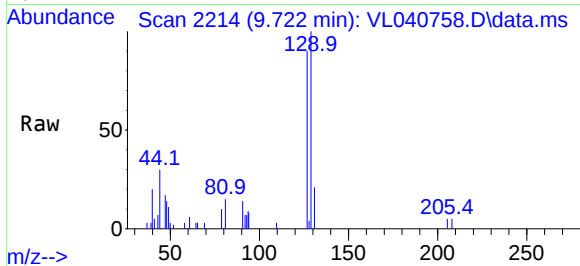




#48
Dibromochloromethane
Concen: 0.048 ppbv
RT: 9.722 min Scan# 211
Delta R.T. 0.003 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

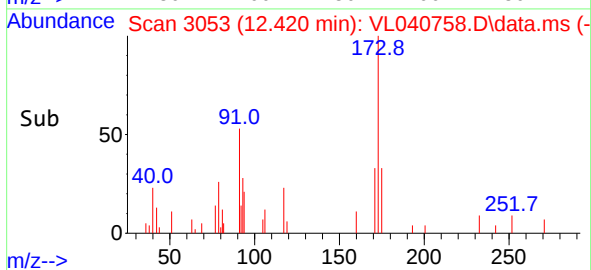
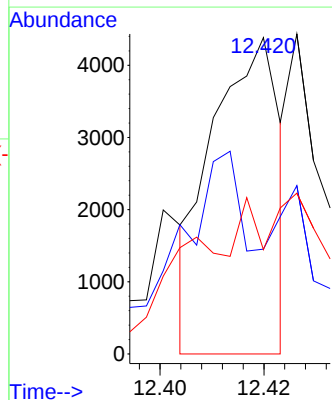
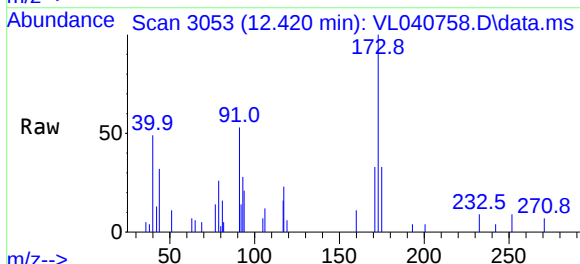
Instrument :
MSVOA_L
ClientSampleId :
VSTDICC0.1

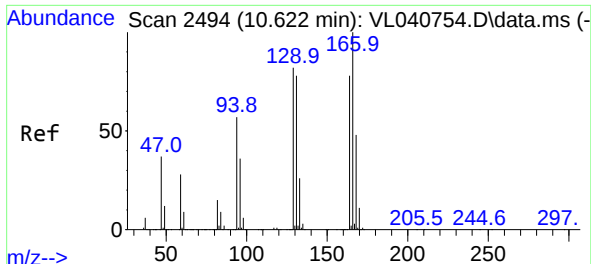
Tgt Ion:129 Resp: 7620
Ion Ratio Lower Upper
129 100
127 144.4 39.1 117.3#



#49
Bromoform
Concen: 0.030 ppbv
RT: 12.420 min Scan# 3053
Delta R.T. 0.007 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

Tgt Ion:173 Resp: 3961
Ion Ratio Lower Upper
173 100
175 131.3 39.2 58.8#
171 0.0 42.0 63.0#

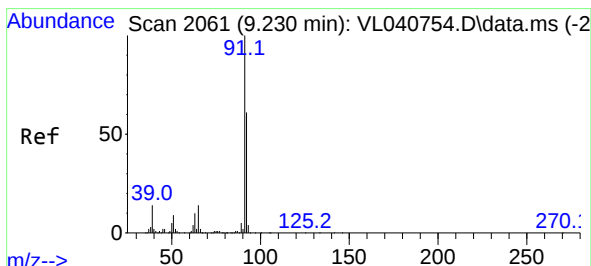
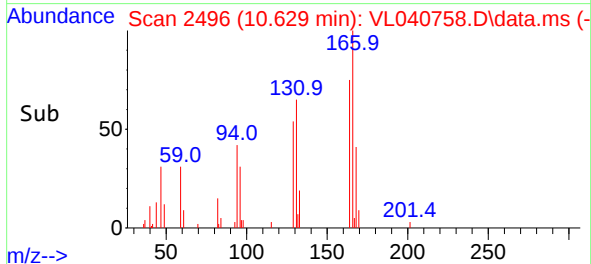
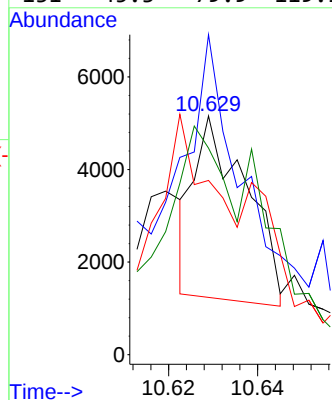
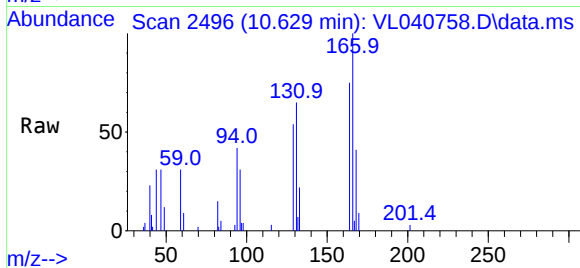




#52
Tetrachloroethene
Concen: 0.034 ppbv
RT: 10.629 min Scan# 2496
Delta R.T. 0.007 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

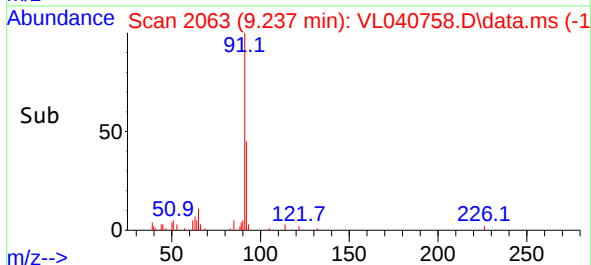
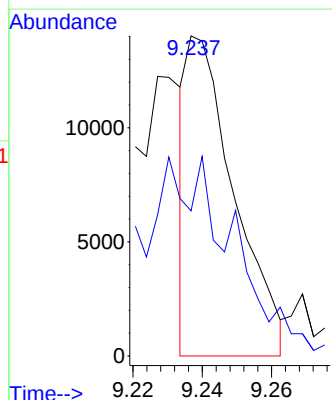
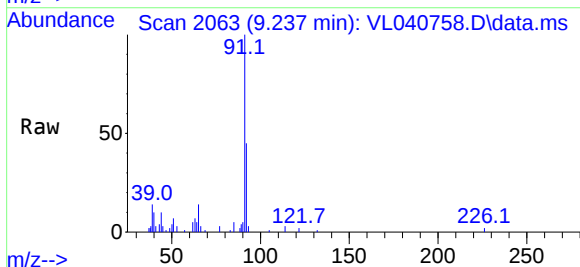
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

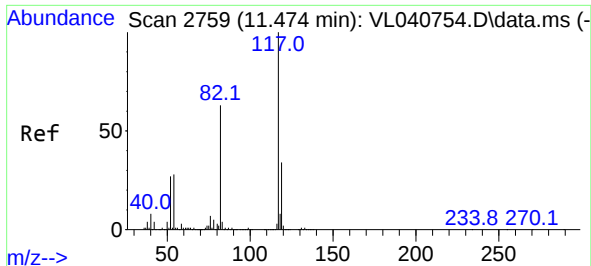
Tgt Ion:164 Resp: 3180
Ion Ratio Lower Upper
164 100
166 124.3 102.4 153.6
129 41.2 84.2 126.4#
131 45.3 79.9 119.9#



#53
Toluene
Concen: 0.048 ppbv
RT: 9.237 min Scan# 2063
Delta R.T. 0.007 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

Tgt Ion: 91 Resp: 13296
Ion Ratio Lower Upper
91 100
92 129.8 50.2 75.2#

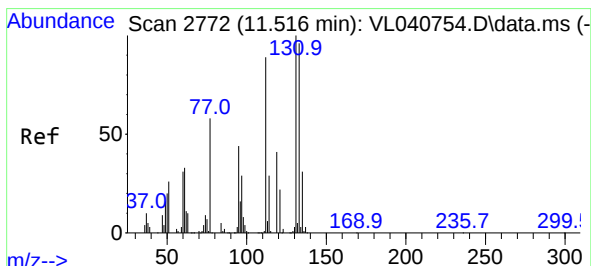
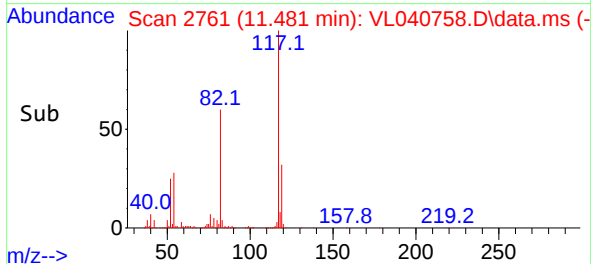
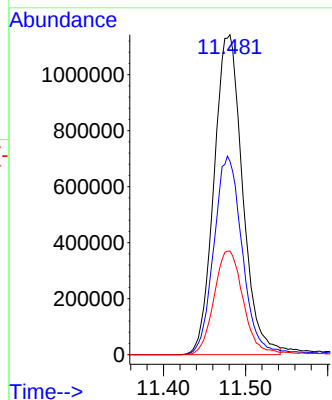
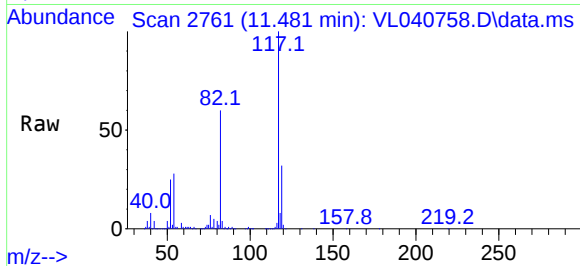




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.481 min Scan# 21
Delta R.T. 0.007 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

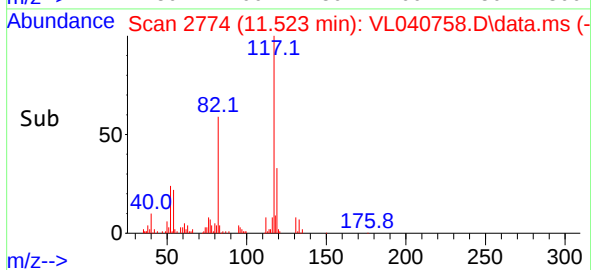
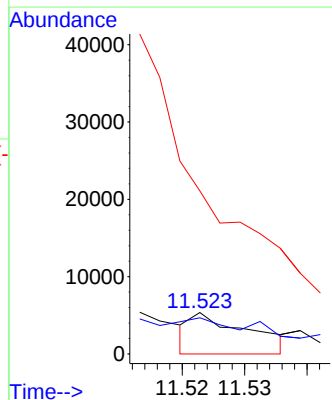
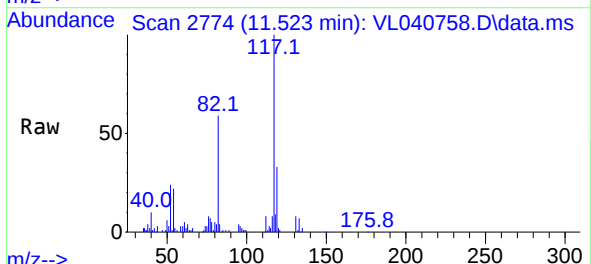
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

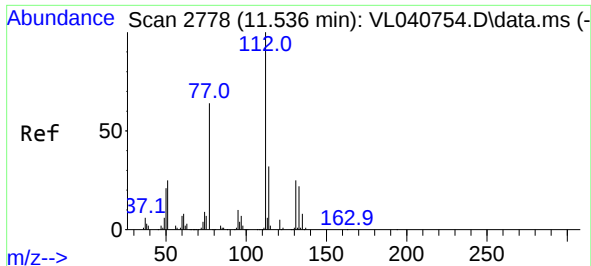
Tgt Ion:117 Resp: 2763779
Ion Ratio Lower Upper
117 100
82 62.4 46.6 70.0
119 33.7 26.0 39.0



#56
1,1,1,2-Tetrachloroethane
Concen: 0.030 ppbv
RT: 11.523 min Scan# 2774
Delta R.T. 0.007 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

Tgt Ion:131 Resp: 3392
Ion Ratio Lower Upper
131 100
133 308.6 75.0 112.6#
119 0.0 45.4 68.0#

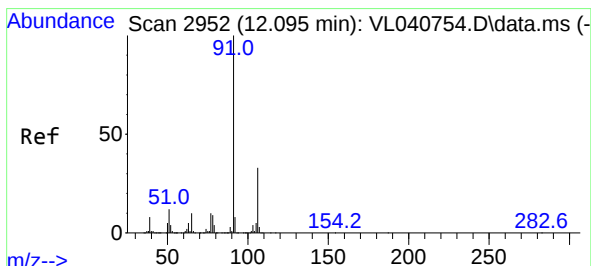
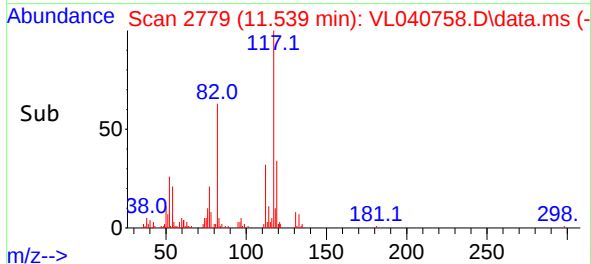
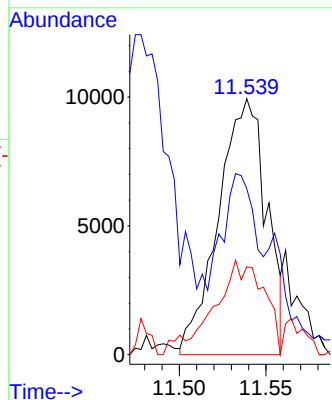
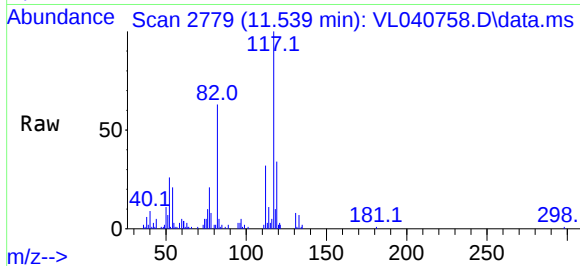




#57
Chlorobenzene
Concen: 0.097 ppbv
RT: 11.539 min Scan# 21
Delta R.T. 0.003 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

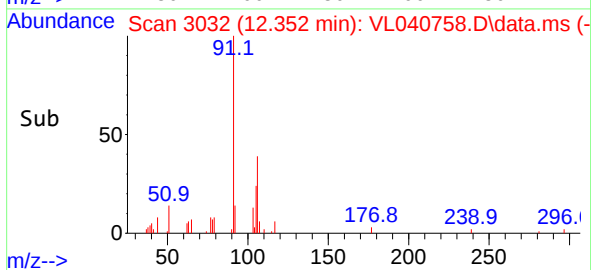
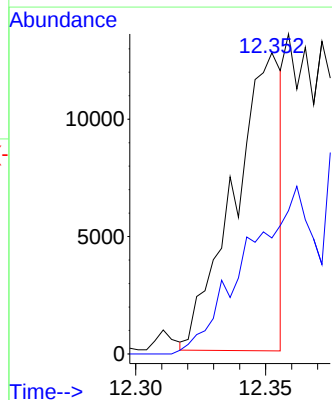
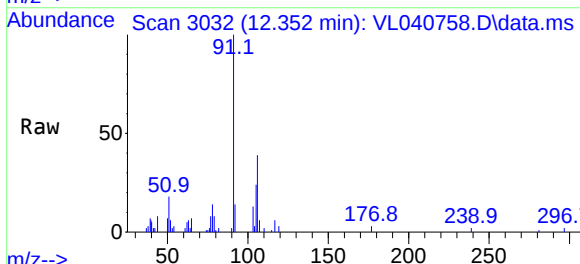
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

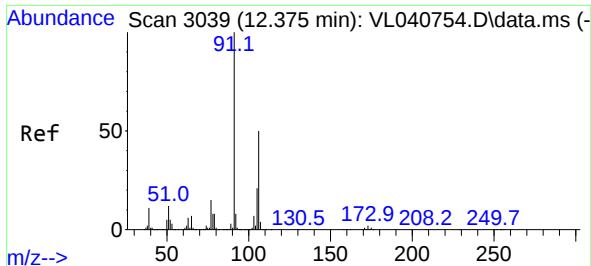
Tgt Ion:112 Resp: 19164
Ion Ratio Lower Upper
112 100
77 30.4 51.9 77.9#
114 35.2 28.6 35.0#



#58
Ethyl Benzene
Concen: 0.046 ppbv
RT: 12.352 min Scan# 3032
Delta R.T. 0.257 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

Tgt Ion: 91 Resp: 16096
Ion Ratio Lower Upper
91 100
106 38.8 26.7 40.1





#59

m/p-Xylene

Concen: 0.034 ppbv

RT: 12.378 min Scan# 3039

Delta R.T. 0.003 min

Lab File: VL040758.D

Acq: 11 Oct 2023 14:33

Instrument :

MSVOA_L

ClientSampleId :

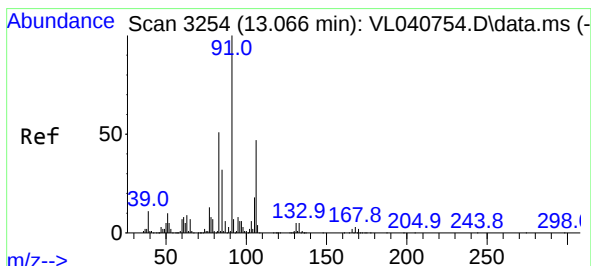
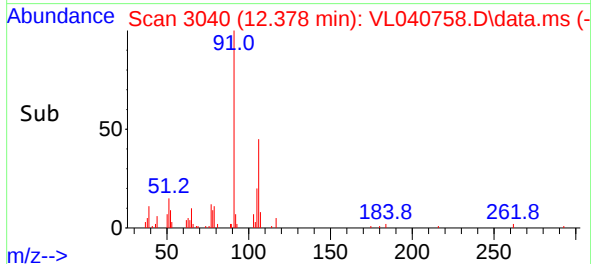
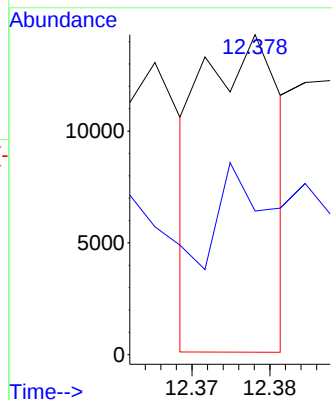
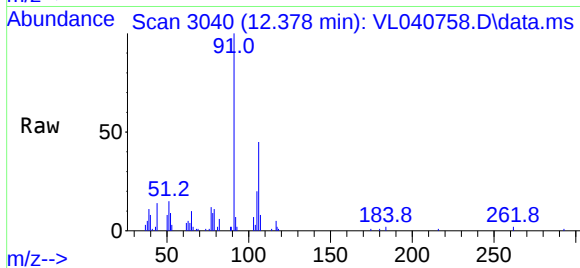
VSTDICC0.1

Tgt Ion: 91 Resp: 9750

Ion Ratio Lower Upper

91 100

106 266.3 37.7 56.5#



#60

o-Xylene

Concen: 0.042 ppbv

RT: 13.079 min Scan# 3258

Delta R.T. 0.013 min

Lab File: VL040758.D

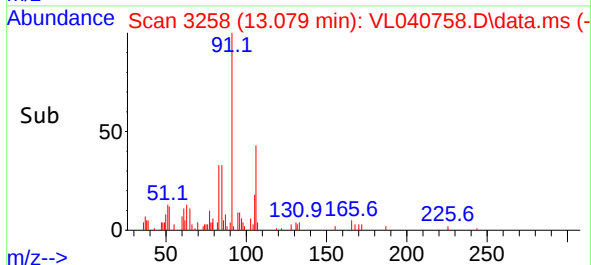
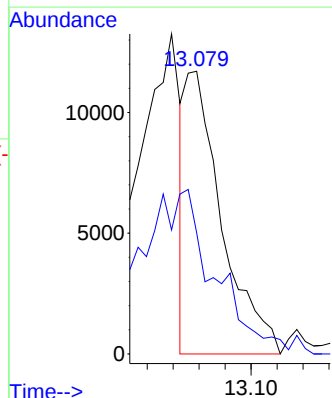
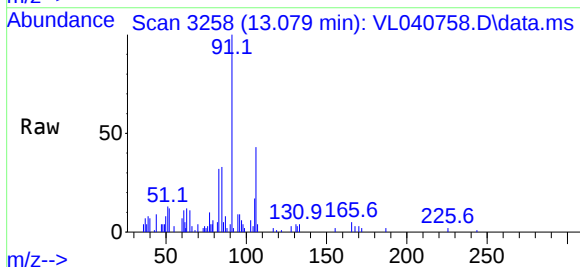
Acq: 11 Oct 2023 14:33

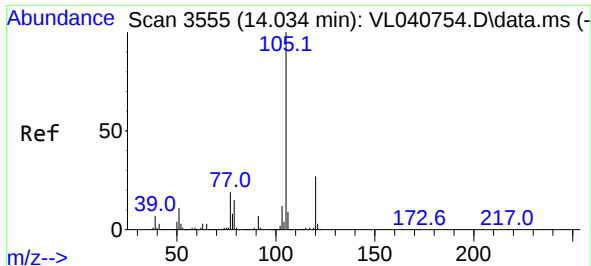
Tgt Ion: 91 Resp: 11397

Ion Ratio Lower Upper

91 100

106 127.9 23.5 70.5#

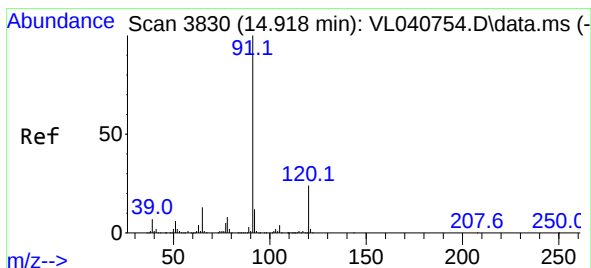
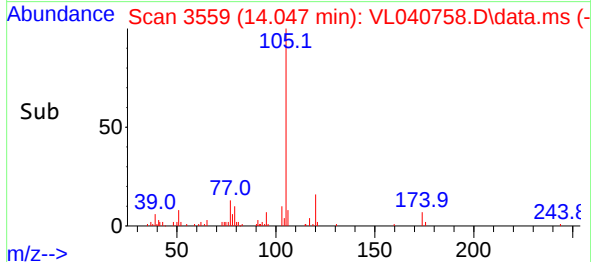
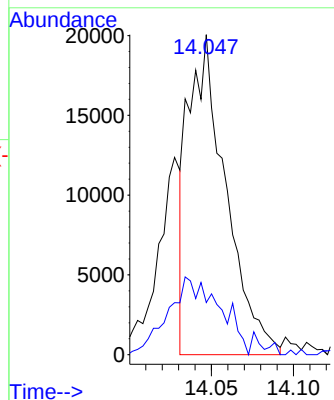
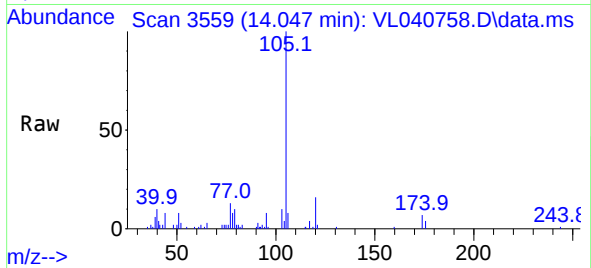




#62
Isopropylbenzene
Concen: 0.076 ppbv
RT: 14.047 min Scan# 31873
Delta R.T. 0.013 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

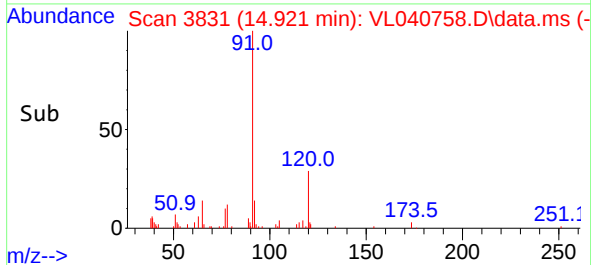
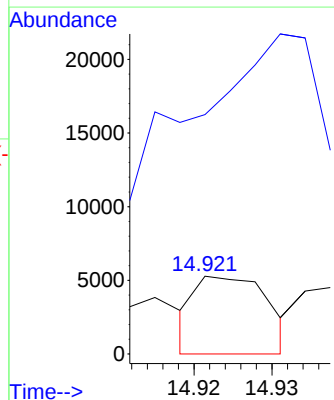
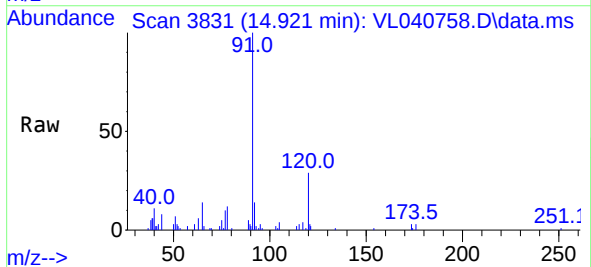
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

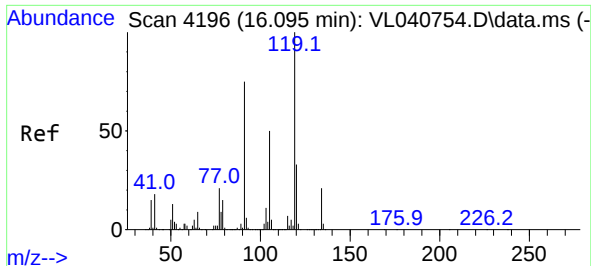
Tgt Ion:105 Resp: 31873
Ion Ratio Lower Upper
105 100
120 0.0 21.5 32.3#



#64
n-propylbenzene
Concen: 0.030 ppbv
RT: 14.921 min Scan# 3831
Delta R.T. 0.003 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

Tgt Ion:120 Resp: 3416
Ion Ratio Lower Upper
120 100
91 0.0 345.9 518.9#

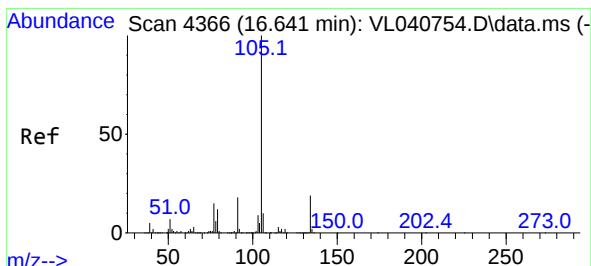
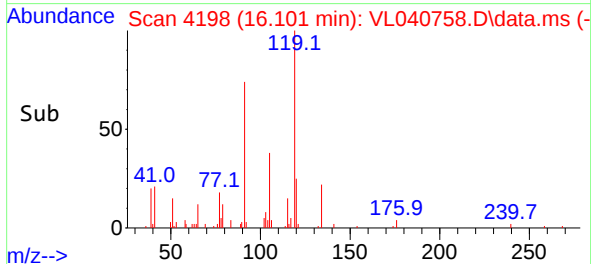
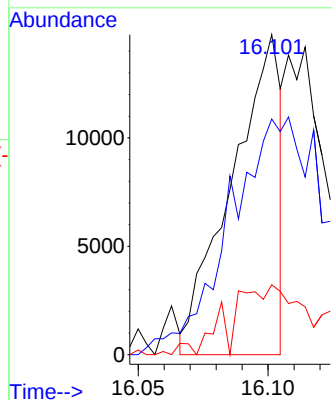
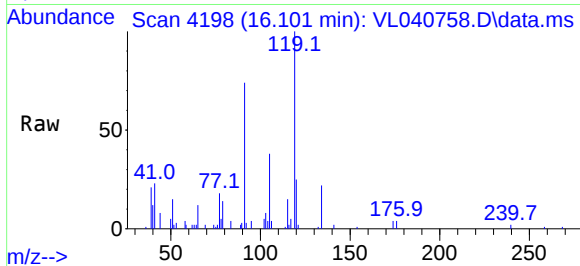




#65
tert-Butylbenzene
Concen: 0.051 ppbv
RT: 16.101 min Scan# 4198
Delta R.T. 0.007 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

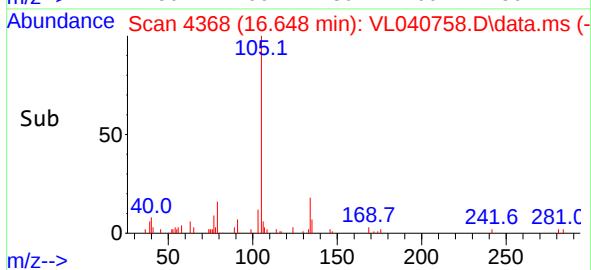
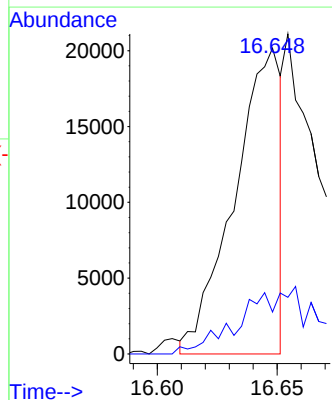
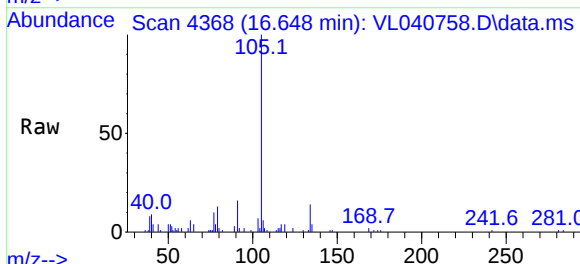
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

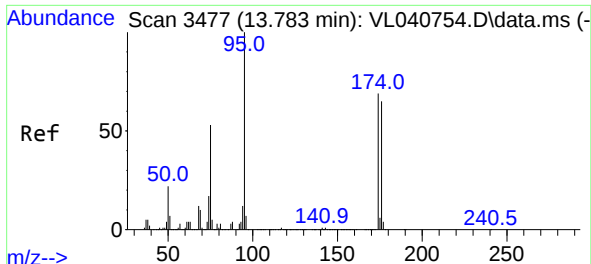
Tgt Ion:119 Resp: 19353
Ion Ratio Lower Upper
119 100
91 0.0 62.2 93.2#
134 45.9 16.1 24.1#



#67
sec-Butylbenzene
Concen: 0.053 ppbv
RT: 16.648 min Scan# 4368
Delta R.T. 0.007 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

Tgt Ion:105 Resp: 27293
Ion Ratio Lower Upper
105 100
134 0.0 15.4 23.2#

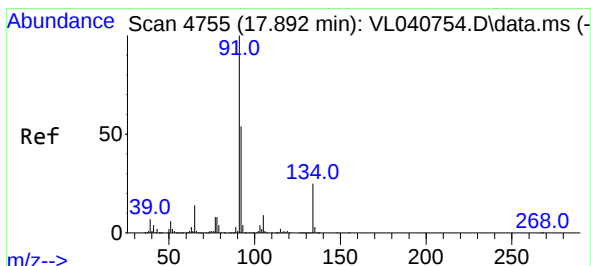
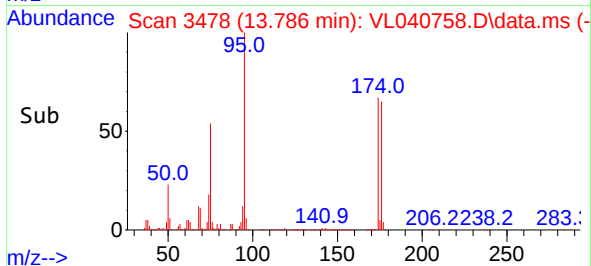
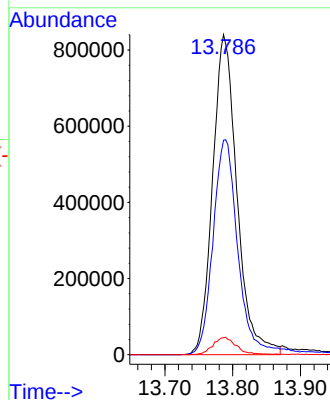
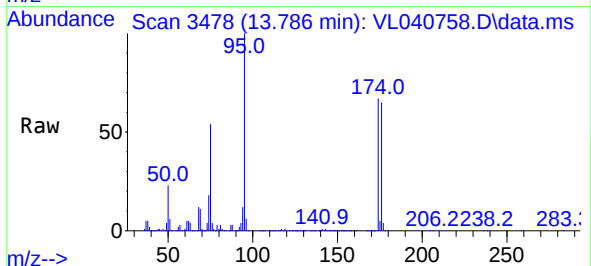




#68
1-Bromo-4-Fluorobenzene
Concen: 10.331 ppbv
RT: 13.786 min Scan# 3477
Delta R.T. 0.003 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

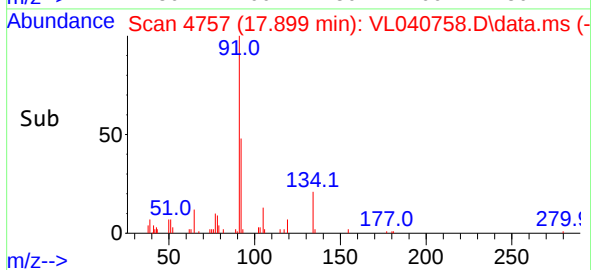
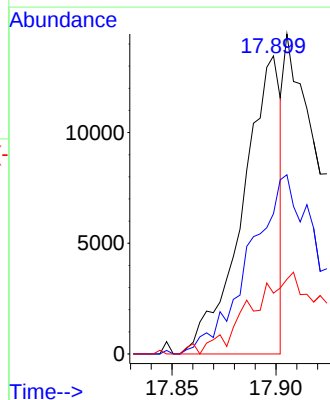
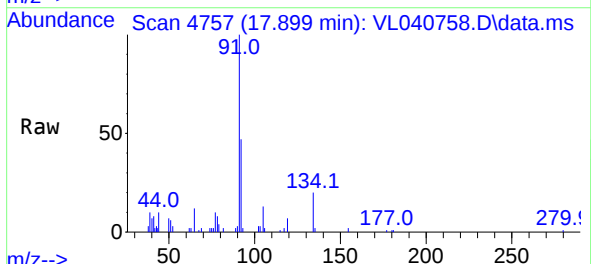
Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

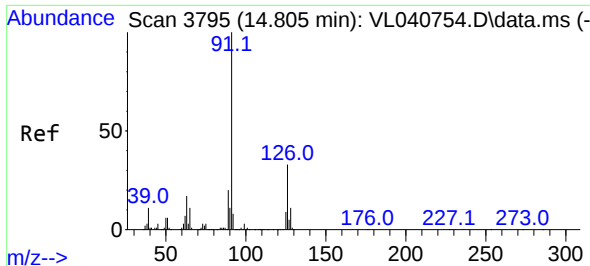
Tgt Ion: 95 Resp: 2100944
Ion Ratio Lower Upper
95 100
174 70.3 54.7 82.1
175 5.3 4.2 6.4



#70
n-Butylbenzene
Concen: 0.040 ppbv
RT: 17.899 min Scan# 4757
Delta R.T. 0.007 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

Tgt Ion: 91 Resp: 17196
Ion Ratio Lower Upper
91 100
92 0.0 44.1 66.1#
134 0.0 19.5 29.3#

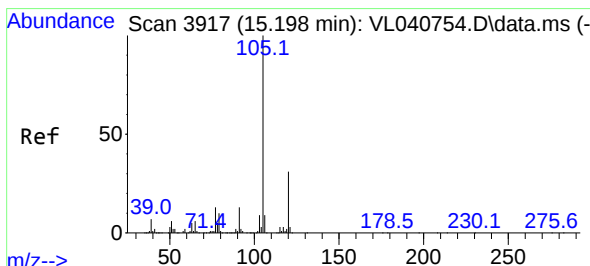
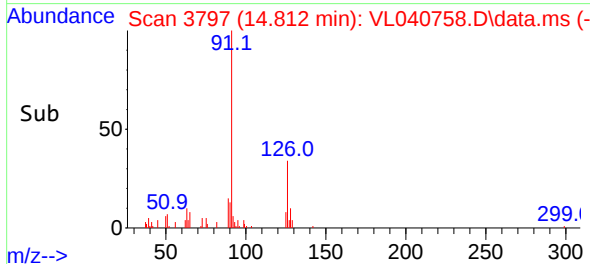
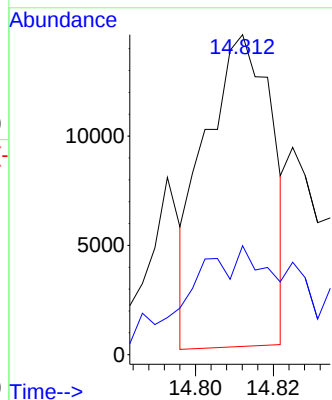
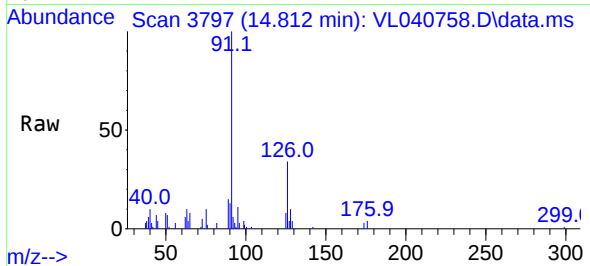




#71
2-Chlorotoluene
Concen: 0.054 ppbv
RT: 14.812 min Scan# 31
Delta R.T. 0.007 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

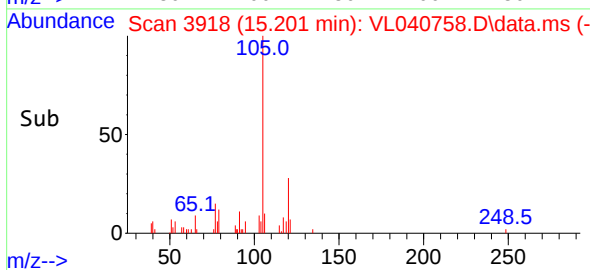
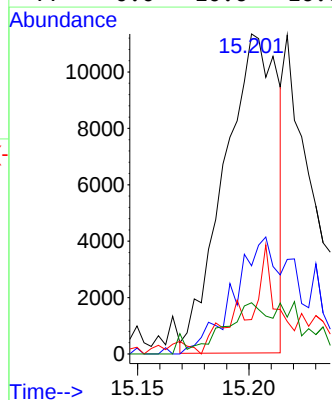
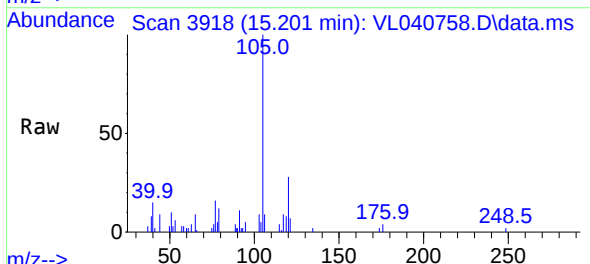
Instrument :
MSVOA_L
ClientSampleId :
VSTDIC0.1

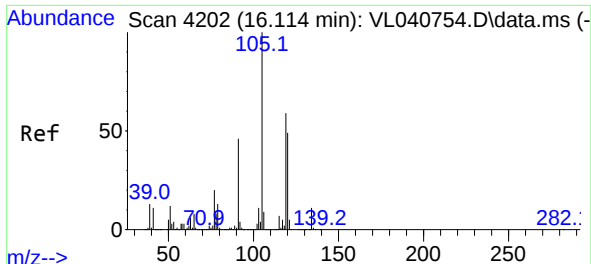
Tgt Ion: 91 Resp: 17033
Ion Ratio Lower Upper
91 100
126 67.6 13.3 53.1#



#72
4-Ethyltoluene
Concen: 0.059 ppbv
RT: 15.201 min Scan# 3918
Delta R.T. 0.003 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

Tgt Ion: 105 Resp: 18764
Ion Ratio Lower Upper
105 100
120 50.0 25.0 37.4#
91 31.9 9.8 14.8#
77 0.0 10.6 16.0#



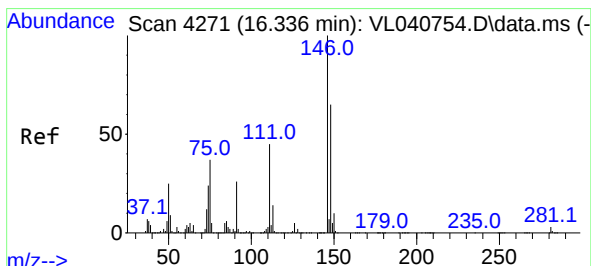
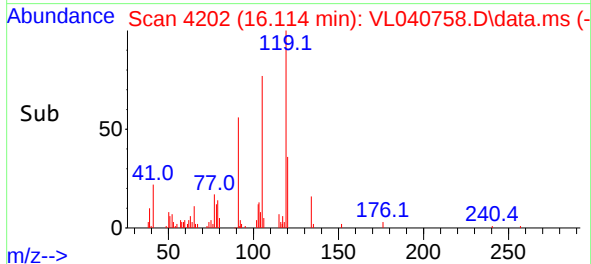
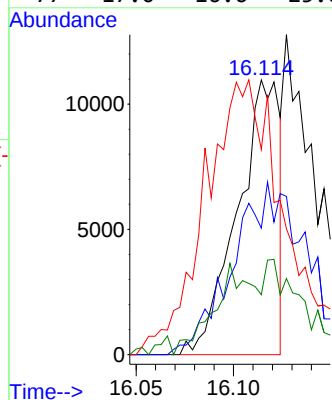
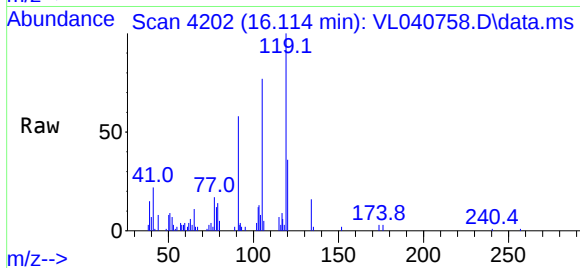


#74
1,2,4-Trimethylbenzene
Concen: 0.054 ppbv
RT: 16.114 min Scan# 41
Delta R.T. 0.000 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

Instrument :
MSVOA_1
ClientSampleId :
VSTDIC0.1

Tgt Ion:105 Resp: 16505

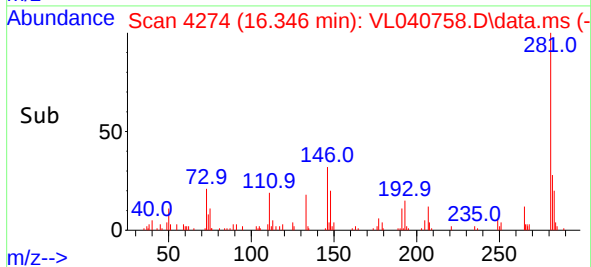
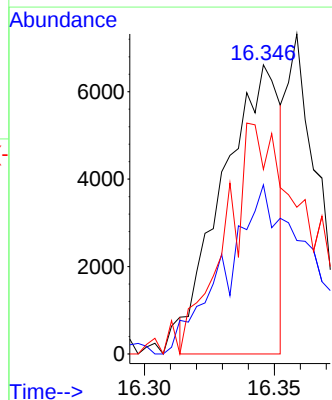
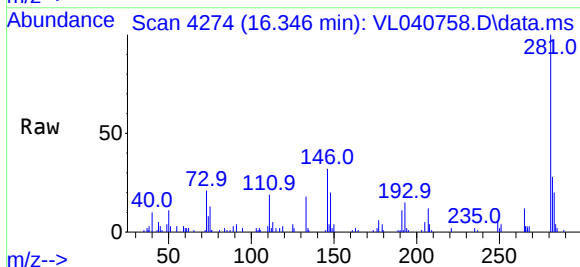
Ion	Ratio	Lower	Upper
105	100		
120	43.6	39.4	59.2
91	56.0	38.6	58.0
77	17.0	16.6	25.0

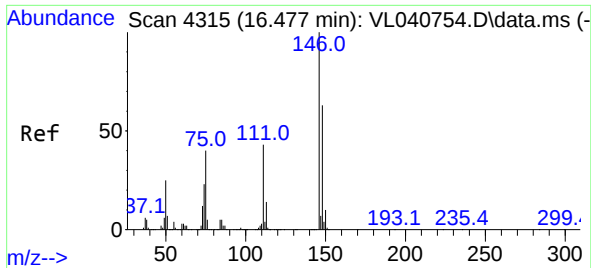


#75
1,3-Dichlorobenzene
Concen: 0.052 ppbv
RT: 16.346 min Scan# 4274
Delta R.T. 0.010 min
Lab File: VL040758.D
Acq: 11 Oct 2023 14:33

Tgt Ion:146 Resp: 9999

Ion	Ratio	Lower	Upper
146	100		
111	127.7	22.6	67.7#
148	142.4	32.4	97.0#





#76
 1,4-Dichlorobenzene
 Concen: 0.051 ppbv
 RT: 16.487 min Scan# 41
 Delta R.T. 0.010 min
 Lab File: VL040758.D
 Acq: 11 Oct 2023 14:33

Instrument :
 MSVOA_L
 ClientSampleId :
 VSTDIC0.1

Tgt Ion:146 Resp: 9562
 Ion Ratio Lower Upper
 146 100
 111 90.8 22.0 66.0#
 148 133.8 33.4 100.1#

