

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121124\
 Data File : VL041743.D
 Acq On : 12 Dec 2024 10:32
 Operator : SY/MD
 Sample : P5150-05 4X
 Misc :
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 12 14:23:02 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 12 13:35:39 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	2.771	49	249625	10.000	ppbv	-0.02
33) 1,4-Difluorobenzene	3.936	114	1199945	10.000	ppbv	-0.03
55) Chlorobenzene-d5	8.862	117	1042032	10.000	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	10.364	95	694234	10.134	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.300%

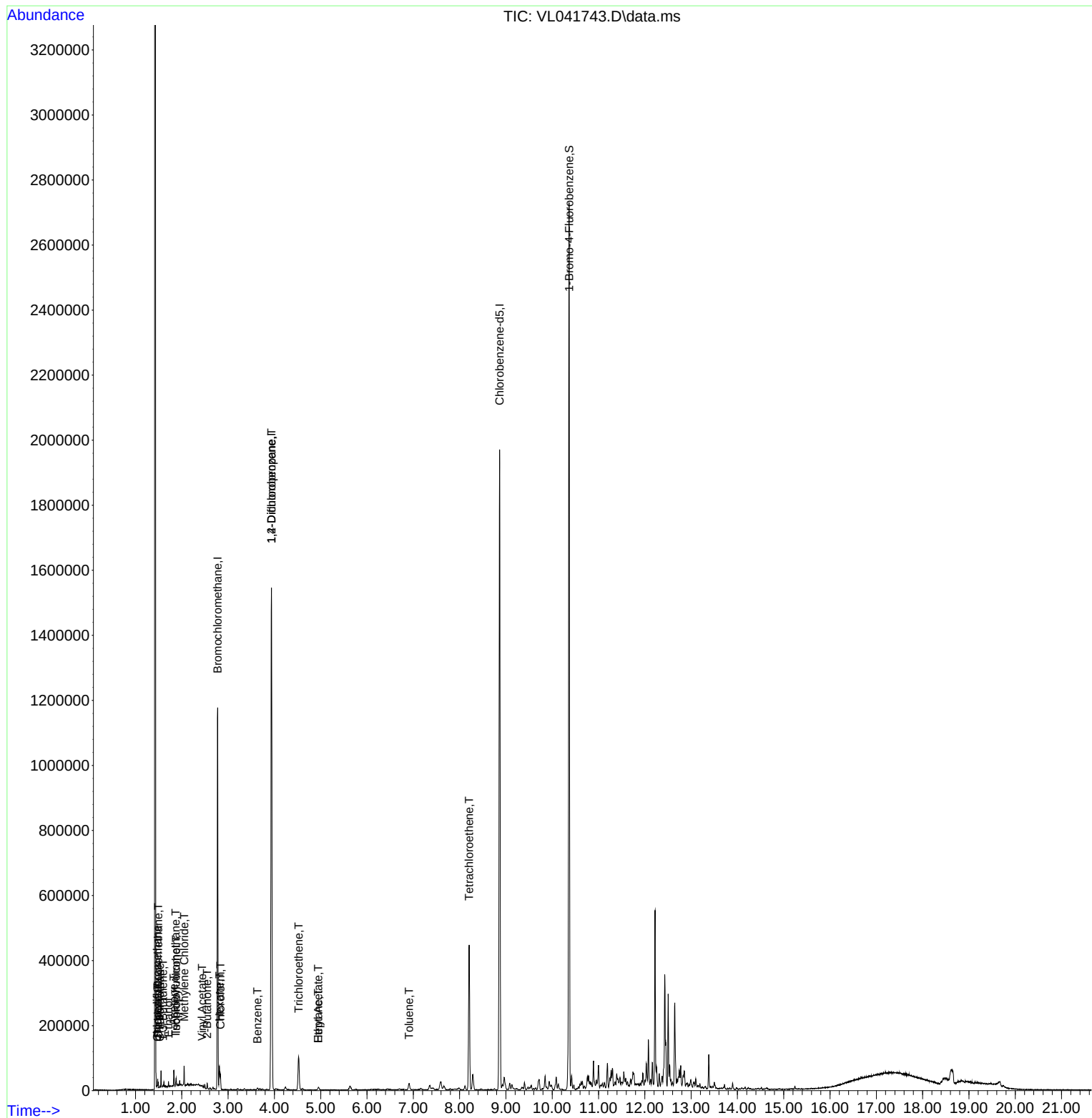
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.492	85	5379	0.123	ppbv	98
3) Chlorodifluoromethane	1.470	51	4751	0.140	ppbv #	89
4) Chloromethane	1.525	50	1379	0.119	ppbv #	69
9) Propene	1.476	41	3096	0.214	ppbv	91
10) Heptane	4.949	43	1684	0.042	ppbv #	19
11) Trichlorofluoromethane	1.868	101	2919	0.058	ppbv	98
13) Ethanol	1.712	45	5447	4.545	ppbv #	34
15) Acetone	1.826	43	21235	0.737	ppbv	92
16) 1,3-Butadiene	1.593	39	916	0.095	ppbv #	32
19) Isopropyl Alcohol	1.878	45	9733	0.356	ppbv #	33
20) Methylene Chloride	2.052	84	11660	0.668	ppbv	96
23) Vinyl Acetate	2.441	43	1279	0.073	ppbv #	1
25) Ethyl Acetate	4.949	43	1684	0.042	ppbv #	12
26) Hexane	2.813	57	20949	0.539	ppbv #	44
29) Chloroform	2.832	83	19476	0.327	ppbv	90
34) 2-Butanone	2.548	43	10130	0.241	ppbv	98
36) Benzene	3.635	78	3944	0.042	ppbv #	96
38) Trichloroethene	4.525	130	37620	0.769	ppbv	96
39) 1,2-Dichloropropane	3.936	63	196051	6.522	ppbv #	33
52) Tetrachloroethene	8.205	164	105982	2.120	ppbv	97
53) Toluene	6.904	91	9210	0.079	ppbv #	19

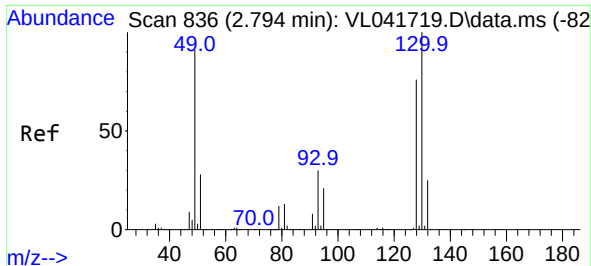
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121124AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Thu Dec 12 13:35:39 2024
Response via : Initial Calibration

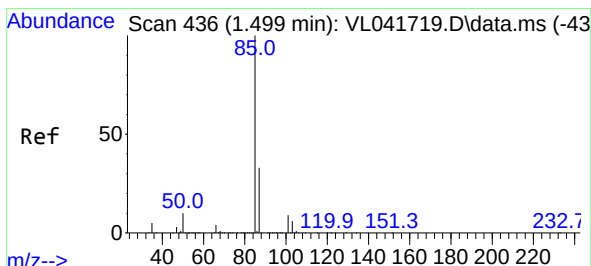
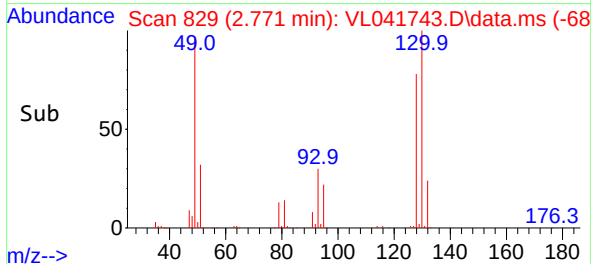
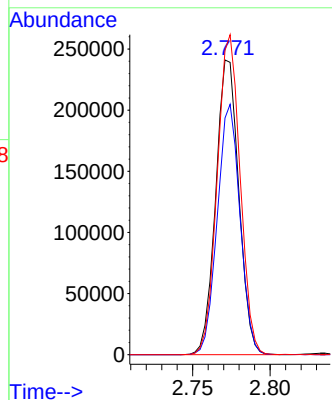
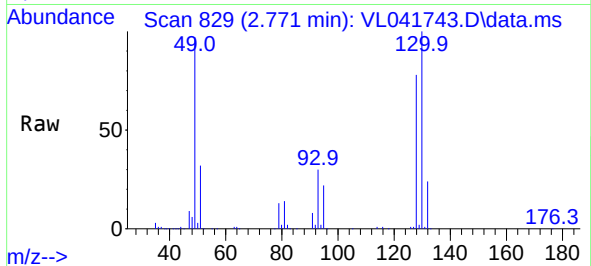




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 2.771 min Scan# 81
Delta R.T. -0.023 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

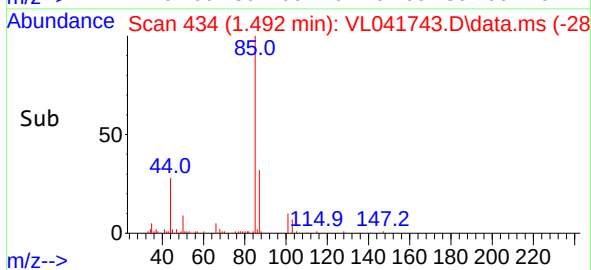
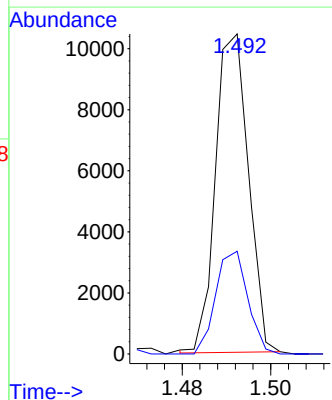
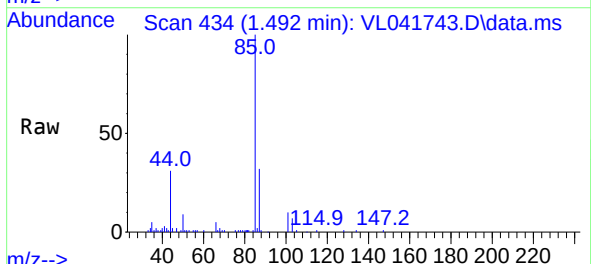
Instrument :
MSVOA_L
ClientSampleId :

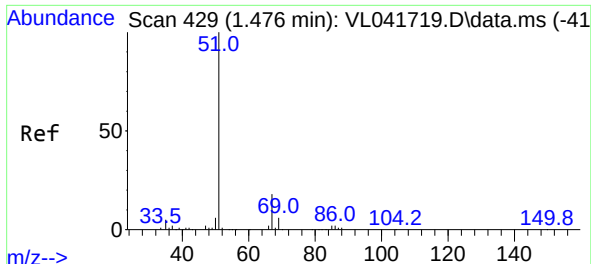
Tgt Ion: 49 Resp: 249625
Ion Ratio Lower Upper
49 100
128 83.5 42.8 128.3
130 107.7 55.8 167.4



#2
Dichlorodifluoromethane
Concen: 0.123 ppbv
RT: 1.492 min Scan# 434
Delta R.T. -0.006 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

Tgt Ion: 85 Resp: 5379
Ion Ratio Lower Upper
85 100
87 32.3 26.6 39.8

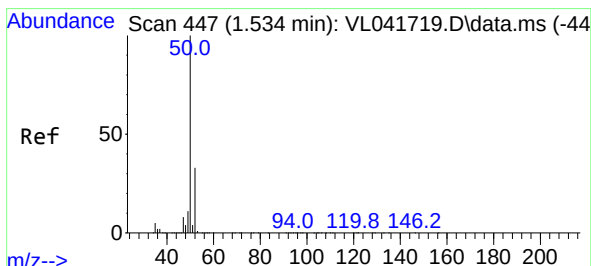
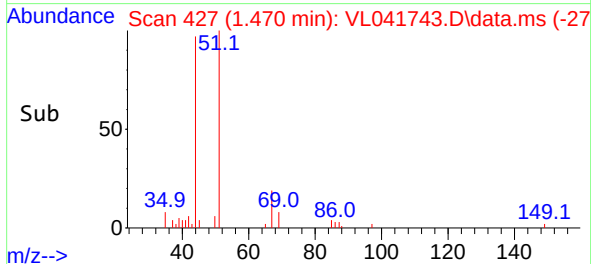
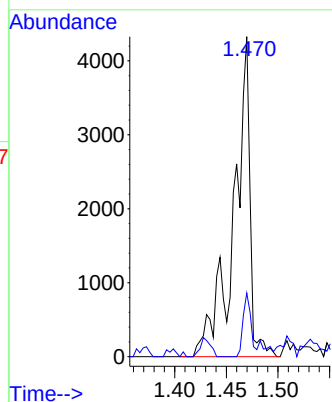
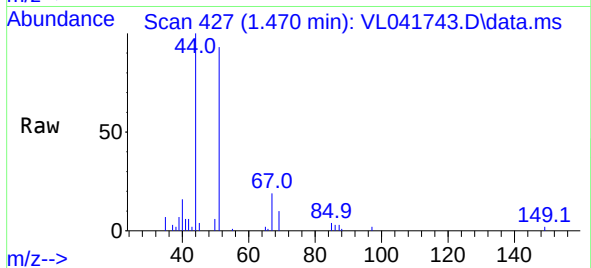




#3
Chlorodifluoromethane
Concen: 0.140 ppbv
RT: 1.470 min Scan# 41
Delta R.T. -0.006 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

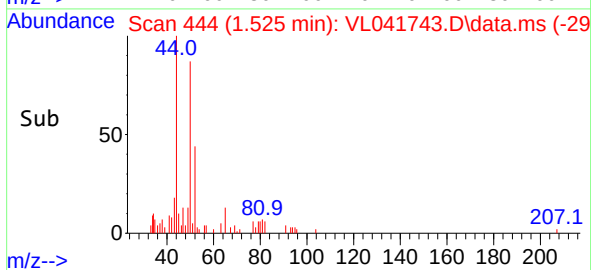
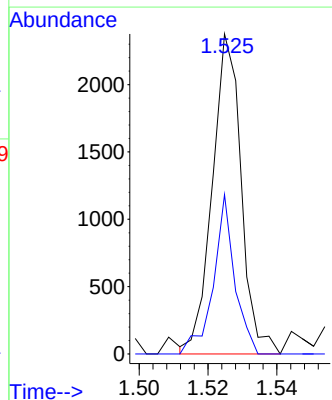
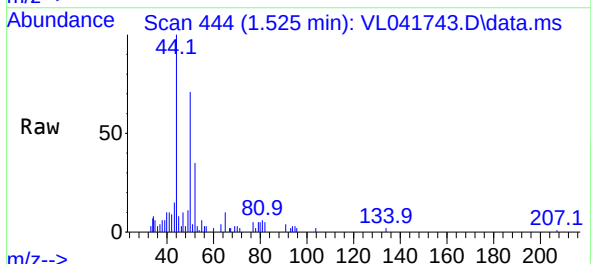
Instrument :
MSVOA_L
ClientSampleId :

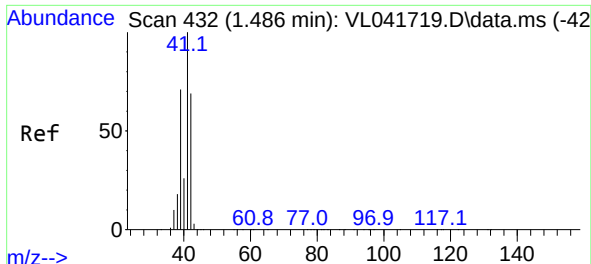
Tgt Ion: 51 Resp: 4751
Ion Ratio Lower Upper
51 100
67 13.3 14.6 21.8#



#4
Chloromethane
Concen: 0.119 ppbv
RT: 1.525 min Scan# 444
Delta R.T. -0.010 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

Tgt Ion: 50 Resp: 1379
Ion Ratio Lower Upper
50 100
52 51.0 26.6 40.0#

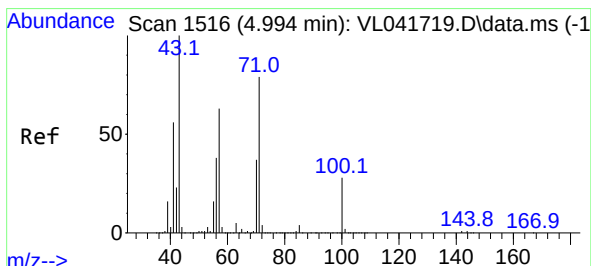
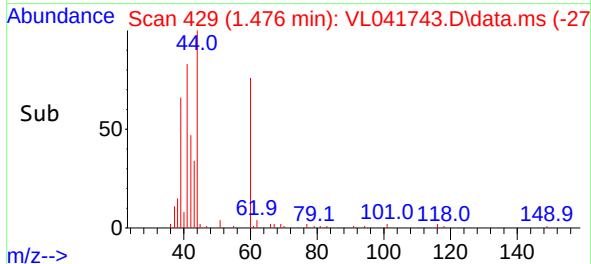
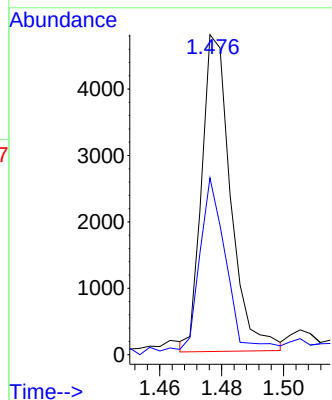
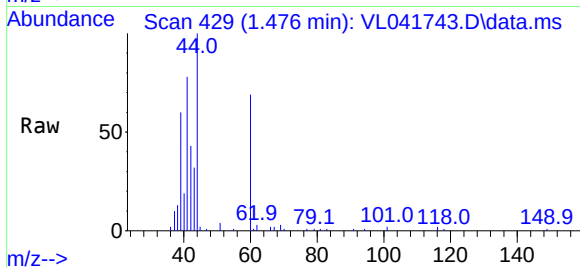




#9
Propene
Concen: 0.214 ppbv
RT: 1.476 min Scan# 41
Delta R.T. -0.010 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

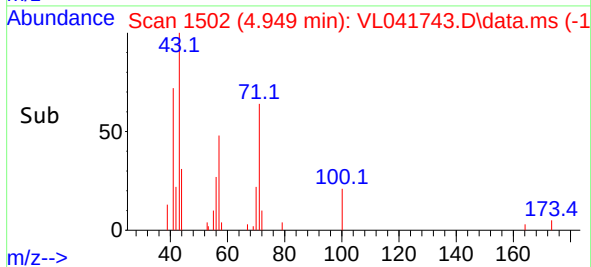
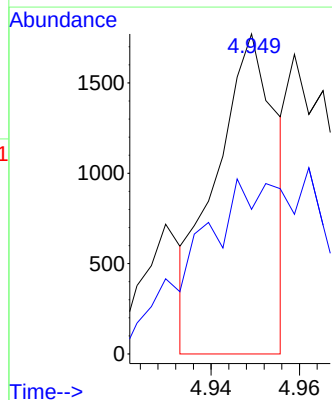
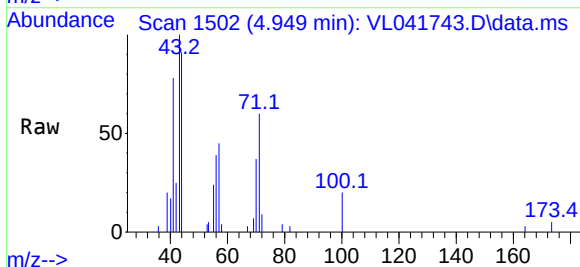
Instrument :
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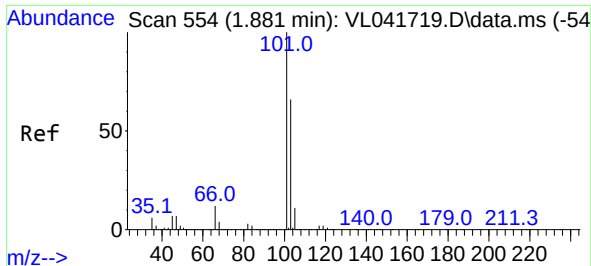
Tgt Ion: 41 Resp: 3096
Ion Ratio Lower Upper
41 100
42 62.8 56.2 84.4



#10
Heptane
Concen: 0.042 ppbv
RT: 4.949 min Scan# 1502
Delta R.T. -0.045 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

Tgt Ion: 43 Resp: 1684
Ion Ratio Lower Upper
43 100
57 0.0 50.5 75.7#

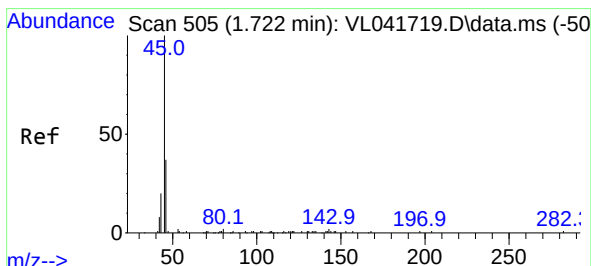
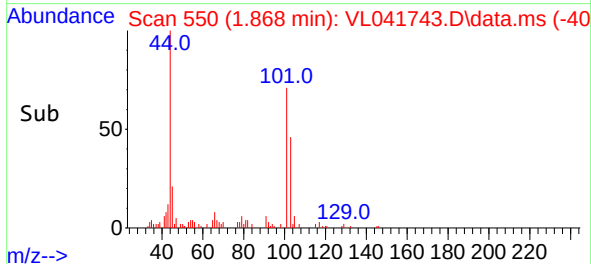
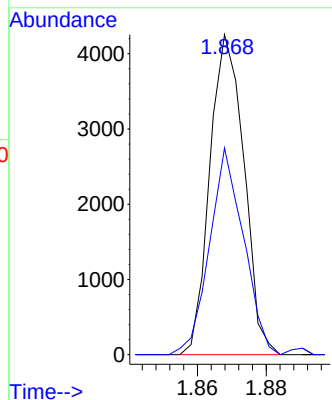
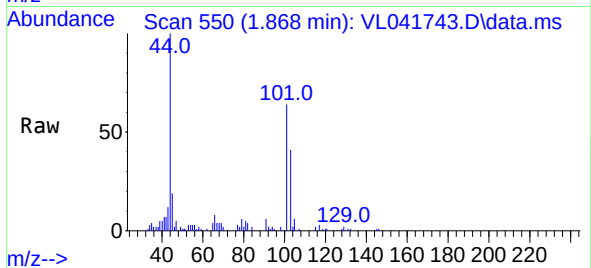




#11
Trichlorofluoromethane
Concen: 0.058 ppbv
RT: 1.868 min Scan# 51
Delta R.T. -0.013 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

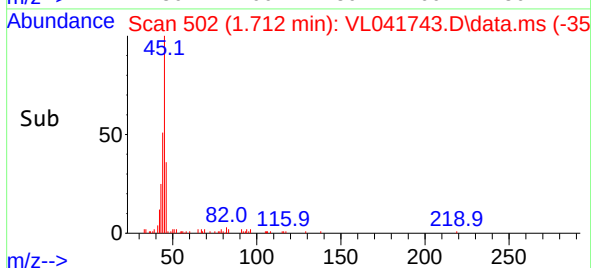
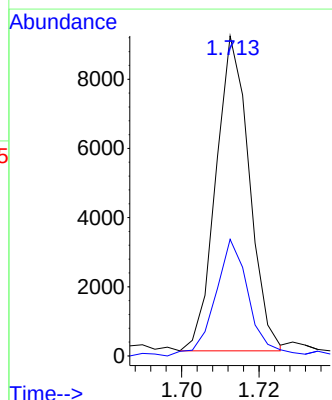
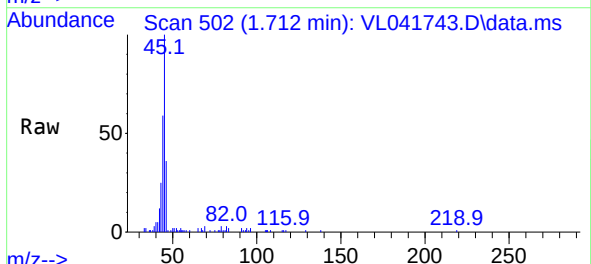
Instrument :
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ClientSampleId :

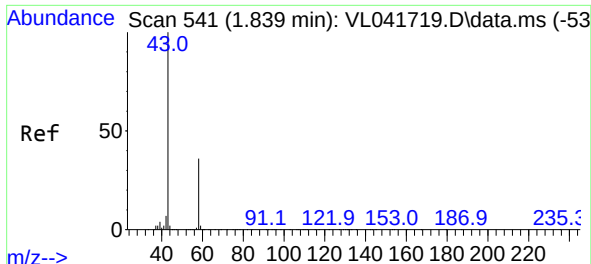
Tgt Ion:101 Resp: 2919
Ion Ratio Lower Upper
101 100
103 64.6 52.7 79.1



#13
Ethanol
Concen: 4.545 ppbv
RT: 1.712 min Scan# 502
Delta R.T. -0.010 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

Tgt Ion: 45 Resp: 5447
Ion Ratio Lower Upper
45 100
46 0.0 16.6 66.6#

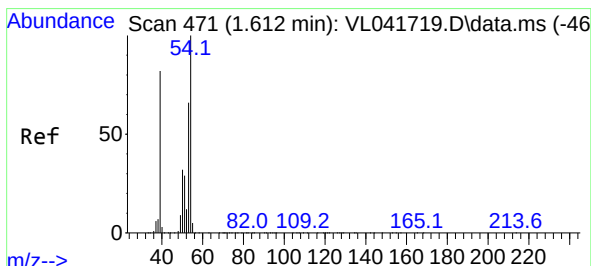
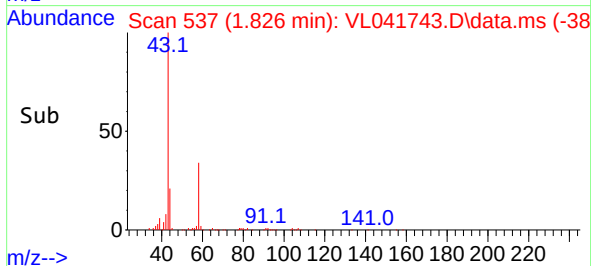
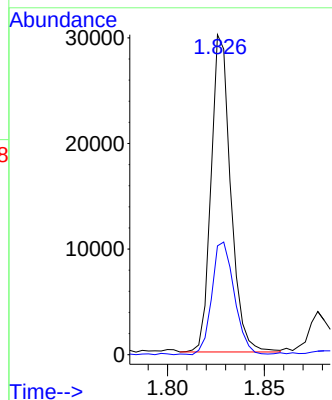
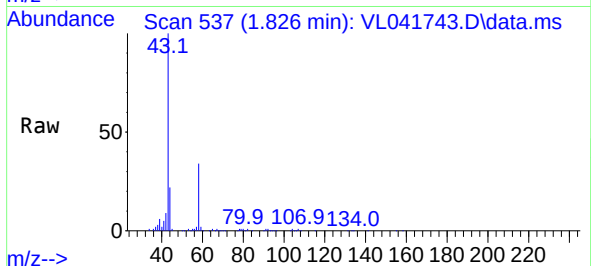




#15
Acetone
Concen: 0.737 ppbv
RT: 1.826 min Scan# 51
Delta R.T. -0.013 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

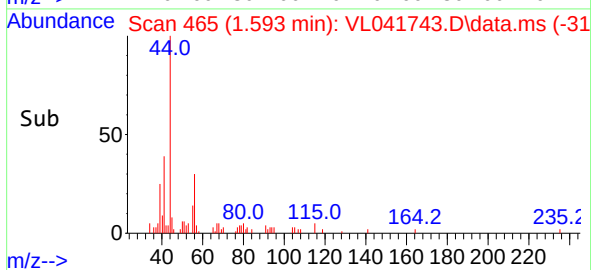
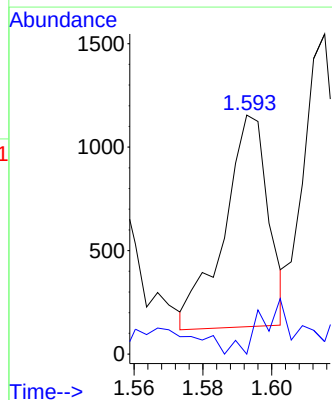
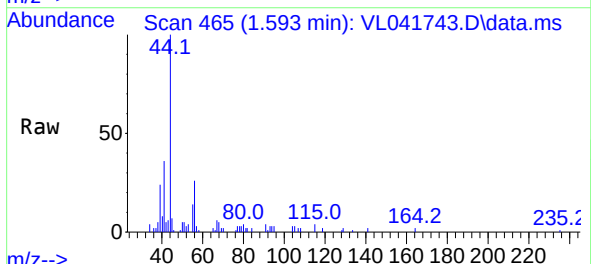
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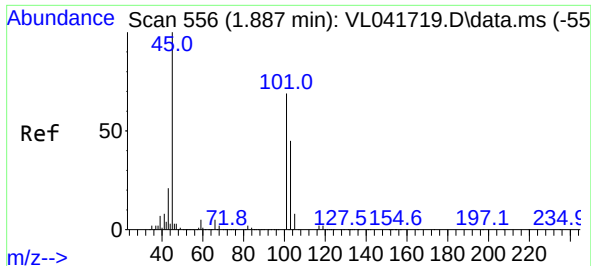
Tgt Ion: 43 Resp: 21235
Ion Ratio Lower Upper
43 100
58 41.1 28.9 43.3



#16
1,3-Butadiene
Concen: 0.095 ppbv
RT: 1.593 min Scan# 465
Delta R.T. -0.019 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

Tgt Ion: 39 Resp: 916
Ion Ratio Lower Upper
39 100
54 36.0 85.0 127.6#

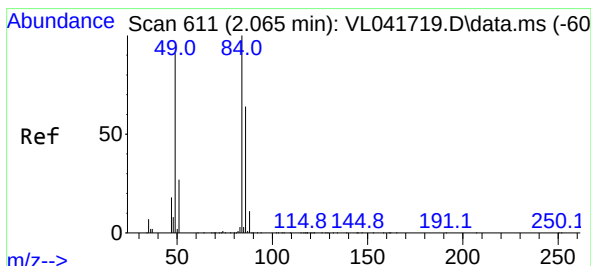
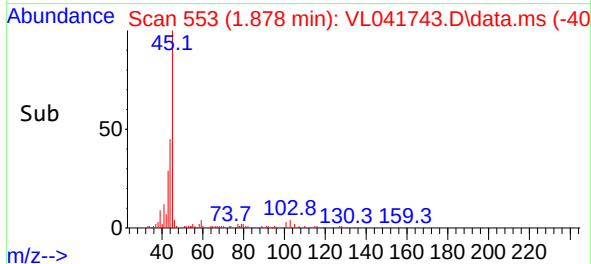
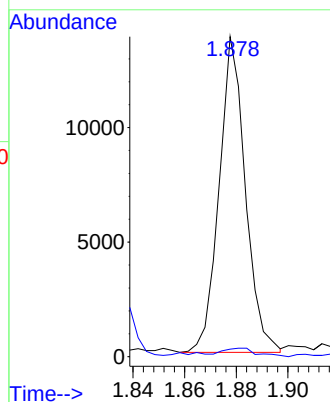
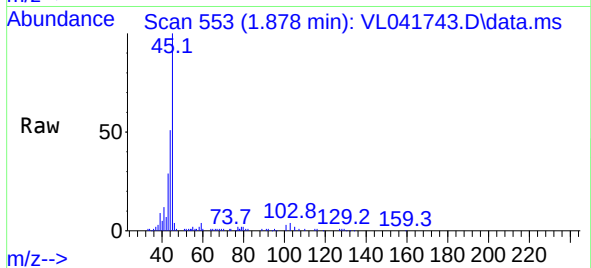




#19
Isopropyl Alcohol
Concen: 0.356 ppbv
RT: 1.878 min Scan# 510
Delta R.T. -0.010 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

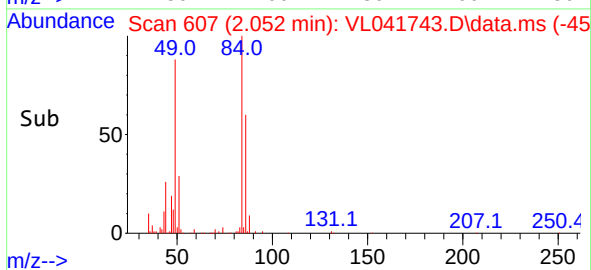
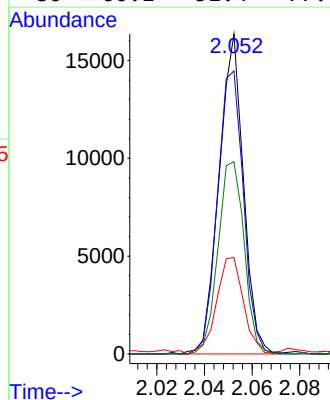
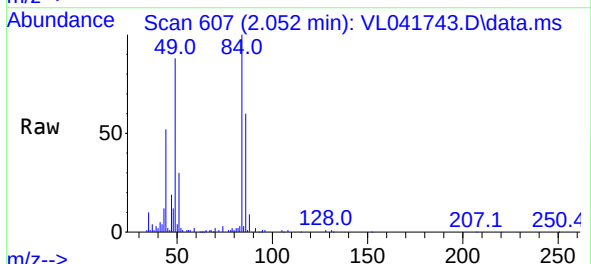
Instrument :
MSVOA_L
ClientSampleId :

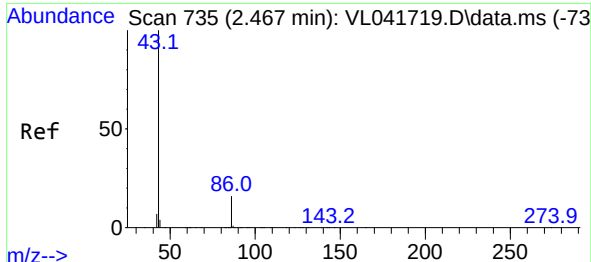
Tgt Ion: 45 Resp: 9733
Ion Ratio Lower Upper
45 100
58 4.2 40.6 61.0#



#20
Methylene Chloride
Concen: 0.668 ppbv
RT: 2.052 min Scan# 607
Delta R.T. -0.013 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

Tgt Ion: 84 Resp: 11660
Ion Ratio Lower Upper
84 100
49 88.5 73.6 110.4
51 29.4 22.7 34.1
86 60.1 51.4 77.0





#23

Vinyl Acetate

Concen: 0.073 ppbv

RT: 2.441 min Scan# 71

Delta R.T. -0.026 min

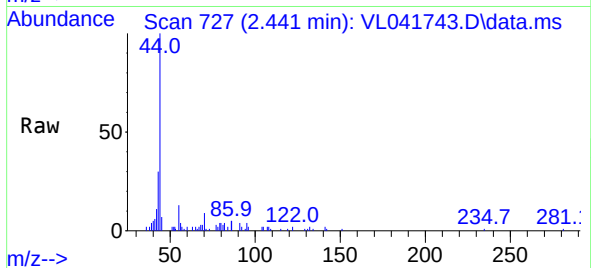
Lab File: VL041743.D

Acq: 12 Dec 2024 10:32

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 43 Resp: 1279

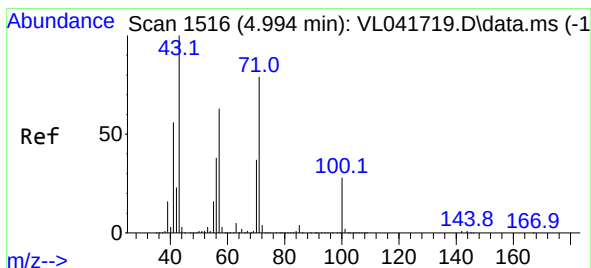
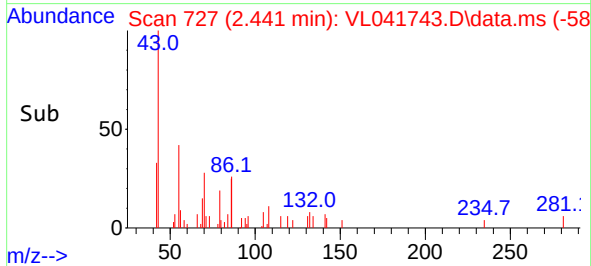
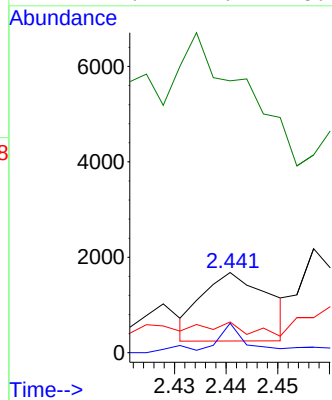
Ion Ratio Lower Upper

43 100

86 55.5 11.5 17.3#

42 31.0 6.6 10.0#

44 79.9 4.1 6.1#



#25

Ethyl Acetate

Concen: 0.042 ppbv

RT: 4.949 min Scan# 1502

Delta R.T. -0.045 min

Lab File: VL041743.D

Acq: 12 Dec 2024 10:32

Tgt Ion: 43 Resp: 1684

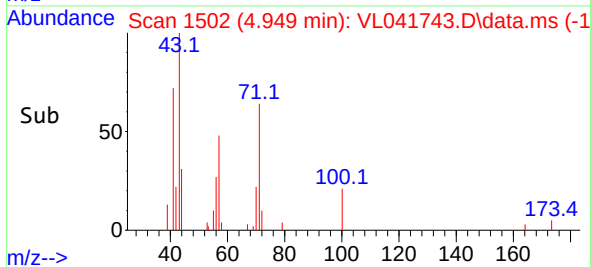
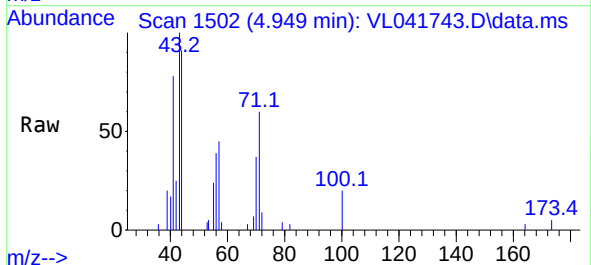
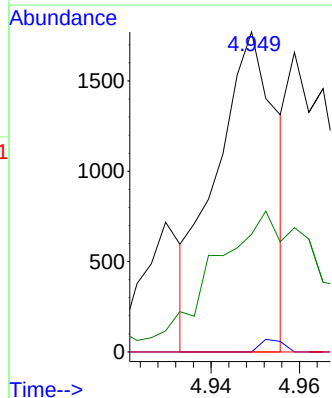
Ion Ratio Lower Upper

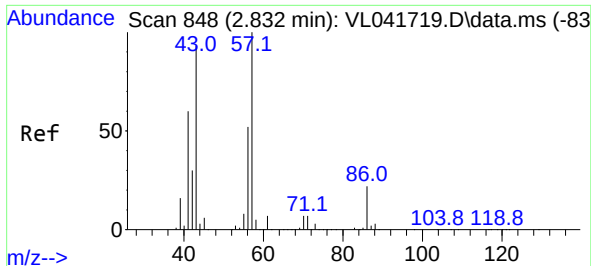
43 100

45 1.5 0.0 0.0#

61 0.0 0.4 0.6#

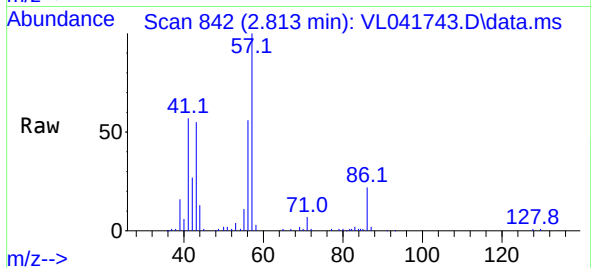
70 90.0 29.4 44.2#



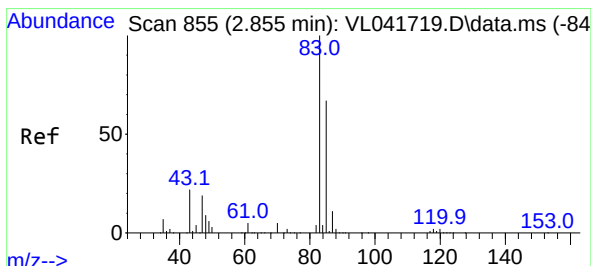
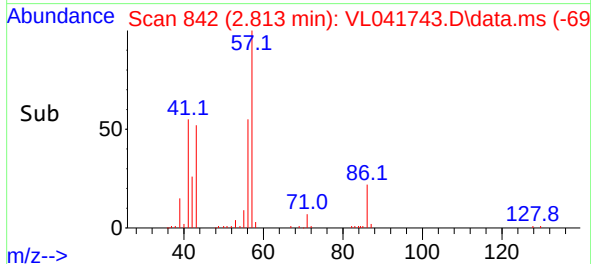
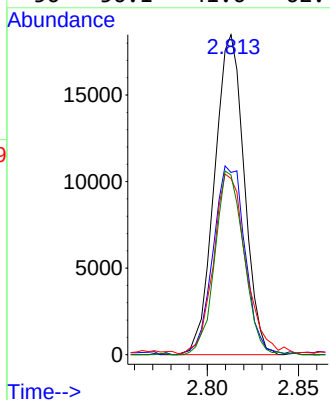


#26
Hexane
Concen: 0.539 ppbv
RT: 2.813 min Scan# 84
Delta R.T. -0.019 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

Instrument :
MSVOA_L
ClientSampleId :

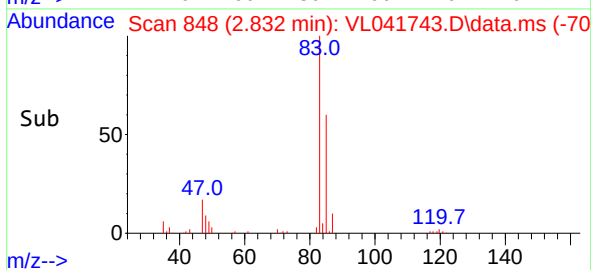
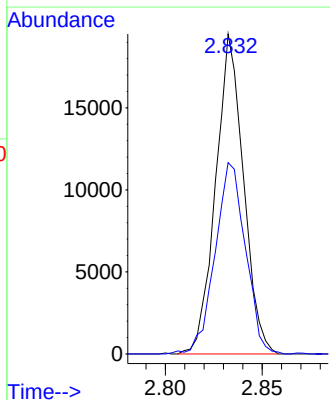
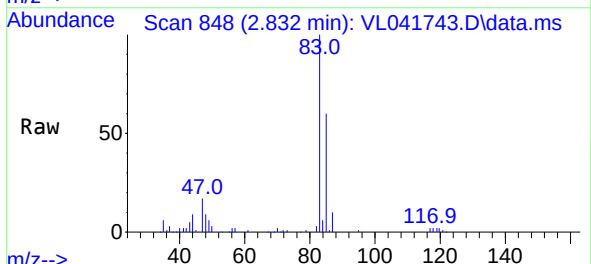


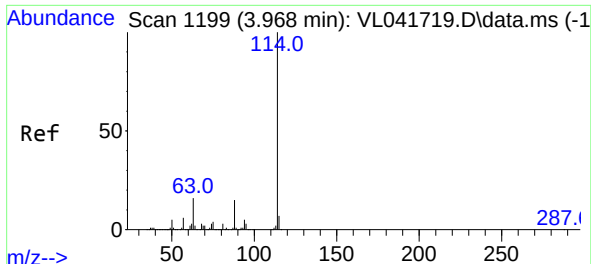
Tgt Ion: 57 Resp: 20949
Ion Ratio Lower Upper
57 100
41 63.8 49.5 74.3
43 61.1 150.6 225.8#
56 56.1 41.6 62.4



#29
Chloroform
Concen: 0.327 ppbv
RT: 2.832 min Scan# 848
Delta R.T. -0.023 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

Tgt Ion: 83 Resp: 19476
Ion Ratio Lower Upper
83 100
85 59.2 53.6 80.4





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.936 min Scan# 1199

Delta R.T. -0.032 min

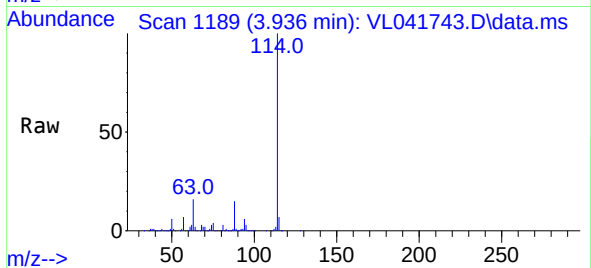
Lab File: VL041743.D

Acq: 12 Dec 2024 10:32

Instrument :

MSVOA_L

ClientSampleId :



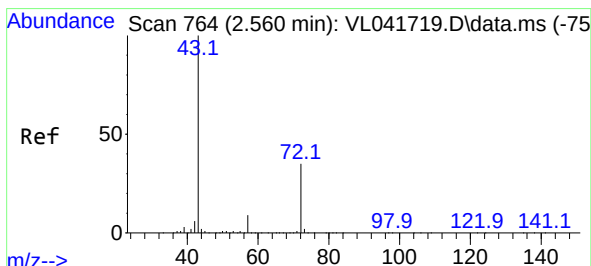
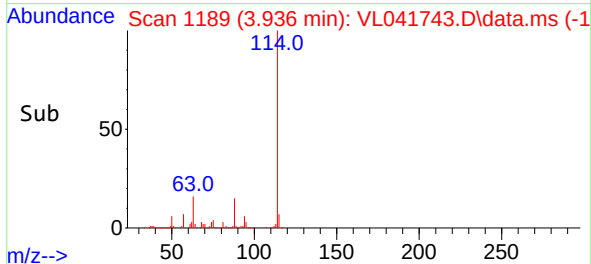
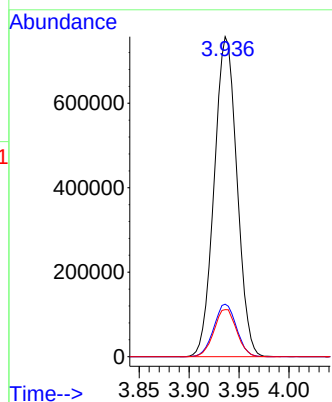
Tgt Ion:114 Resp: 1199945

Ion Ratio Lower Upper

114 100

63 16.3 12.9 19.3

88 14.7 11.8 17.6



#34

2-Butanone

Concen: 0.241 ppbv

RT: 2.548 min Scan# 760

Delta R.T. -0.013 min

Lab File: VL041743.D

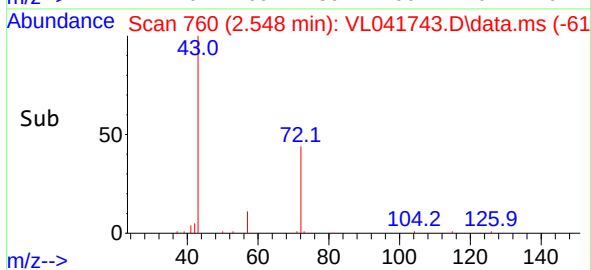
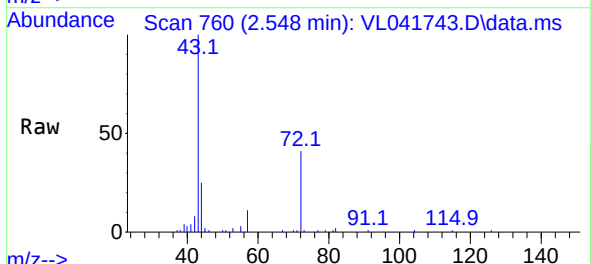
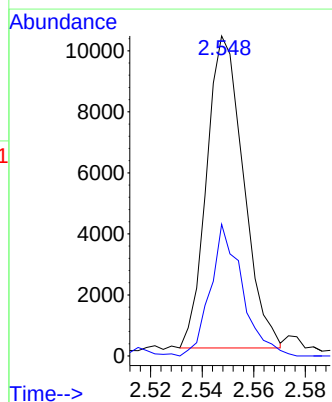
Acq: 12 Dec 2024 10:32

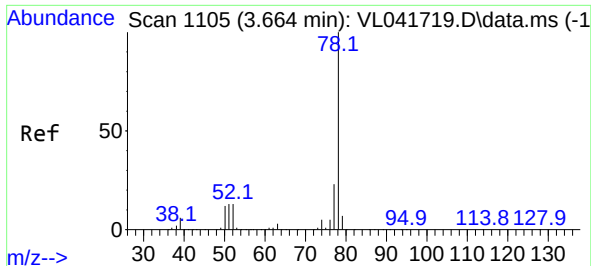
Tgt Ion: 43 Resp: 10130

Ion Ratio Lower Upper

43 100

72 36.4 28.3 42.5

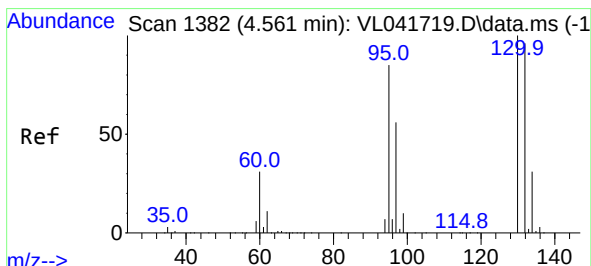
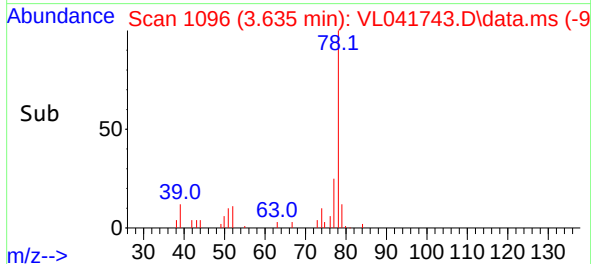
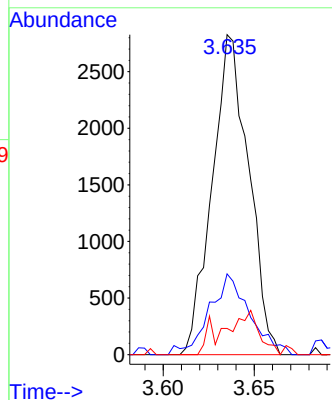
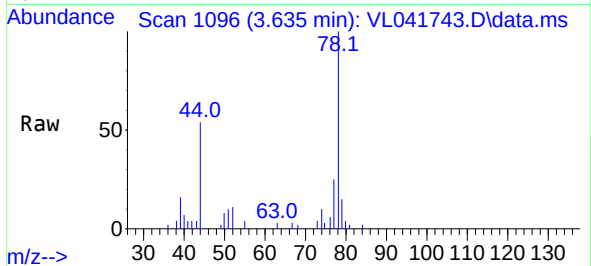




#36
Benzene
Concen: 0.042 ppbv
RT: 3.635 min Scan# 1105
Delta R.T. -0.029 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

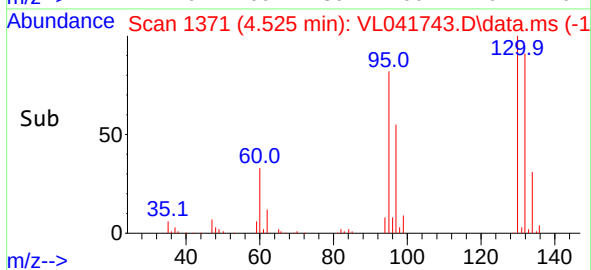
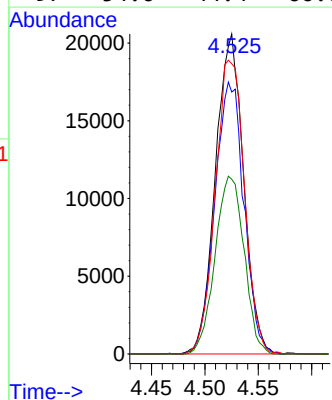
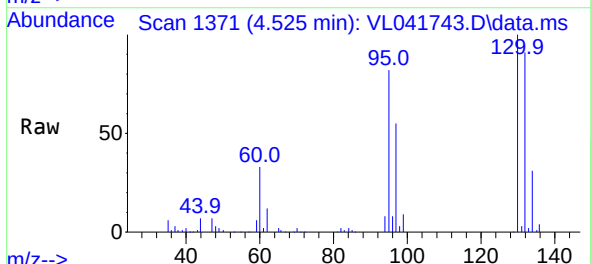
Instrument :
MSVOA_L
ClientSampleId :

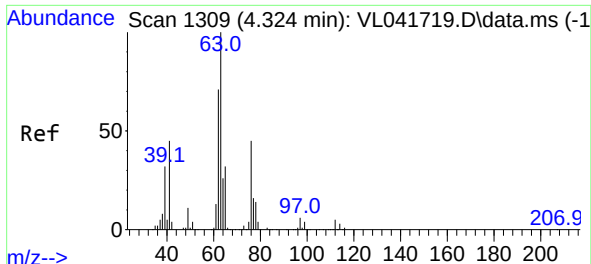
Tgt Ion: 78 Resp: 3944
Ion Ratio Lower Upper
78 100
77 23.4 18.6 27.8
50 8.2 9.5 14.3#



#38
Trichloroethene
Concen: 0.769 ppbv
RT: 4.525 min Scan# 1371
Delta R.T. -0.036 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

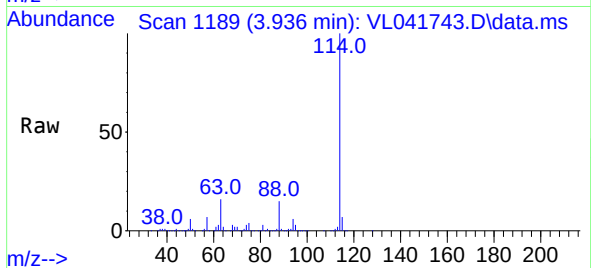
Tgt Ion: 130 Resp: 37620
Ion Ratio Lower Upper
130 100
95 81.8 68.0 102.0
132 90.7 76.5 114.7
97 54.6 44.4 66.6



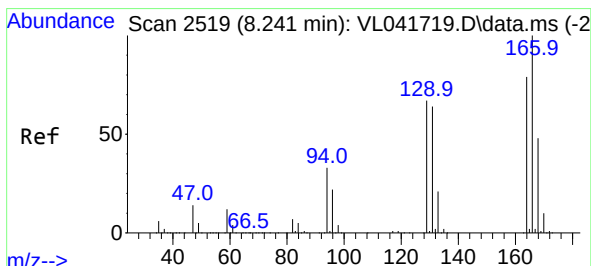
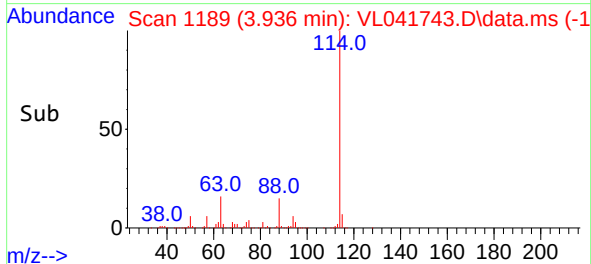
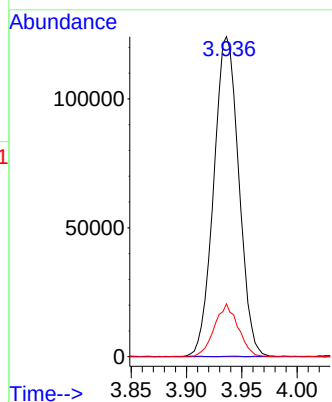


#39
1,2-Dichloropropane
Concen: 6.522 ppbv
RT: 3.936 min Scan# 1189
Delta R.T. -0.388 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

Instrument :
MSVOA_L
ClientSampleId :

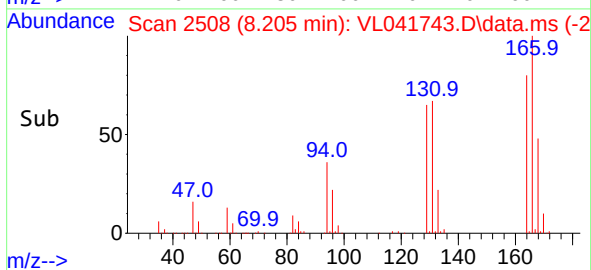
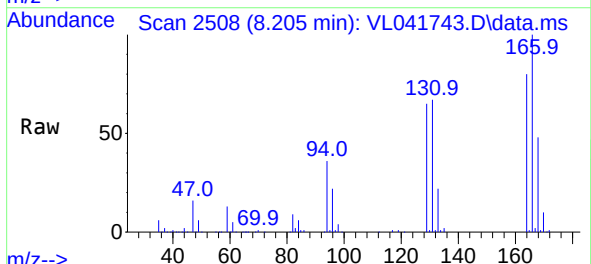
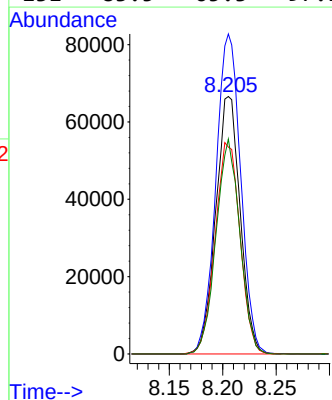


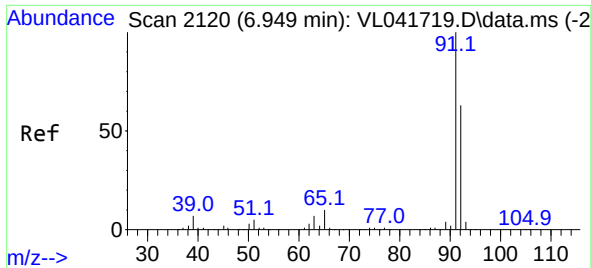
Tgt Ion: 63 Resp: 196051
Ion Ratio Lower Upper
63 100
41 0.0 36.4 54.6#
62 16.5 56.6 85.0#



#52
Tetrachloroethene
Concen: 2.120 ppbv
RT: 8.205 min Scan# 2508
Delta R.T. -0.036 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

Tgt Ion: 164 Resp: 105982
Ion Ratio Lower Upper
164 100
166 124.3 101.4 152.0
129 80.4 67.6 101.4
131 83.5 65.3 97.9

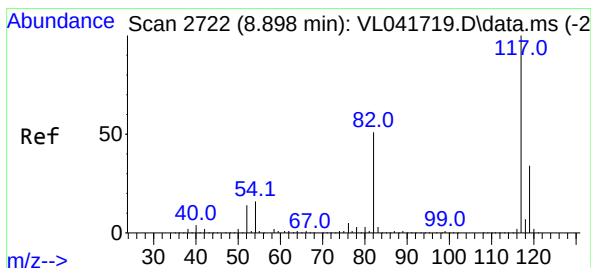
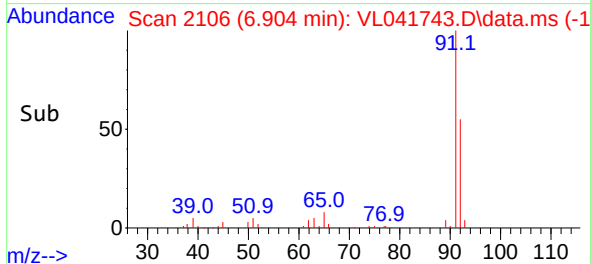
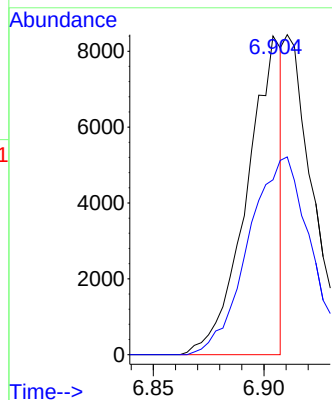
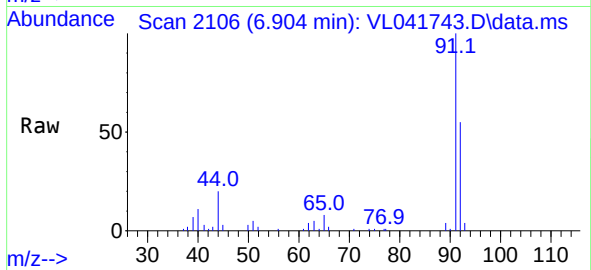




#53
Toluene
Concen: 0.079 ppbv
RT: 6.904 min Scan# 2111
Delta R.T. -0.045 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

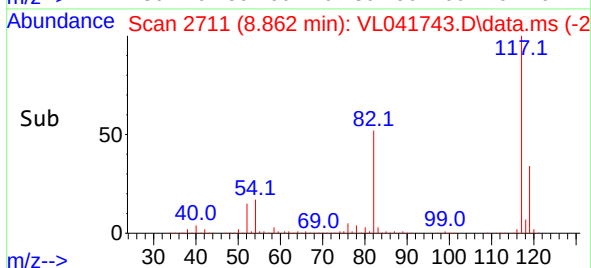
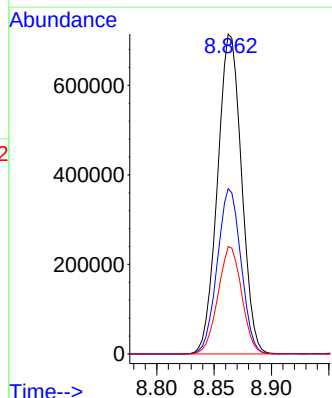
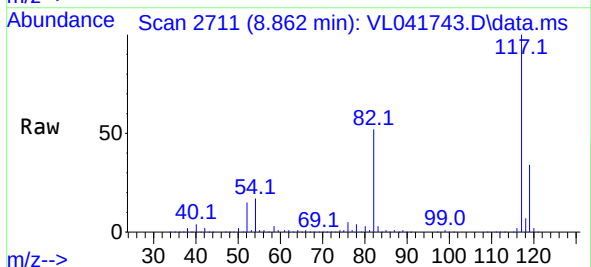
Instrument :
MSVOA_L
ClientSampleId :

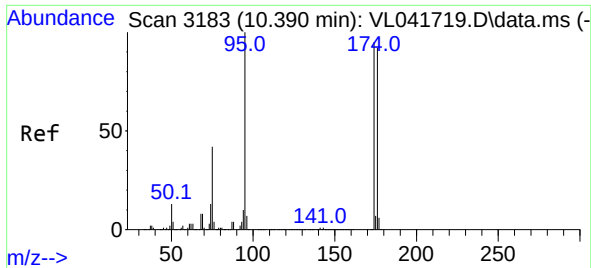
Tgt Ion: 91 Resp: 9210
Ion Ratio Lower Upper
91 100
92 0.0 49.7 74.5#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 8.862 min Scan# 2711
Delta R.T. -0.036 min
Lab File: VL041743.D
Acq: 12 Dec 2024 10:32

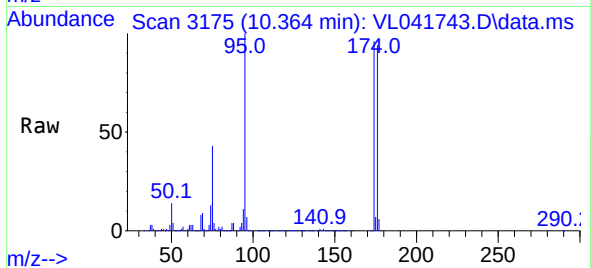
Tgt Ion: 117 Resp: 1042032
Ion Ratio Lower Upper
117 100
82 51.1 41.3 61.9
119 33.2 25.8 38.8





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.134 ppbv
 RT: 10.364 min Scan# 31
 Delta R.T. -0.026 min
 Lab File: VL041743.D
 Acq: 12 Dec 2024 10:32

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion: 95 Resp: 694234

Ion	Ratio	Lower	Upper
95	100		
174	93.9	76.7	115.1
175	6.7	5.4	8.2

