

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL012524\
 Data File : VL041030.D
 Acq On : 25 Jan 2024 15:18
 Operator : SY/MD
 Sample : P1187-15 MDL 0.03
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Jan 26 00:28:35 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL012324AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Jan 26 00:23:09 2024
 Response via : Initial Calibration

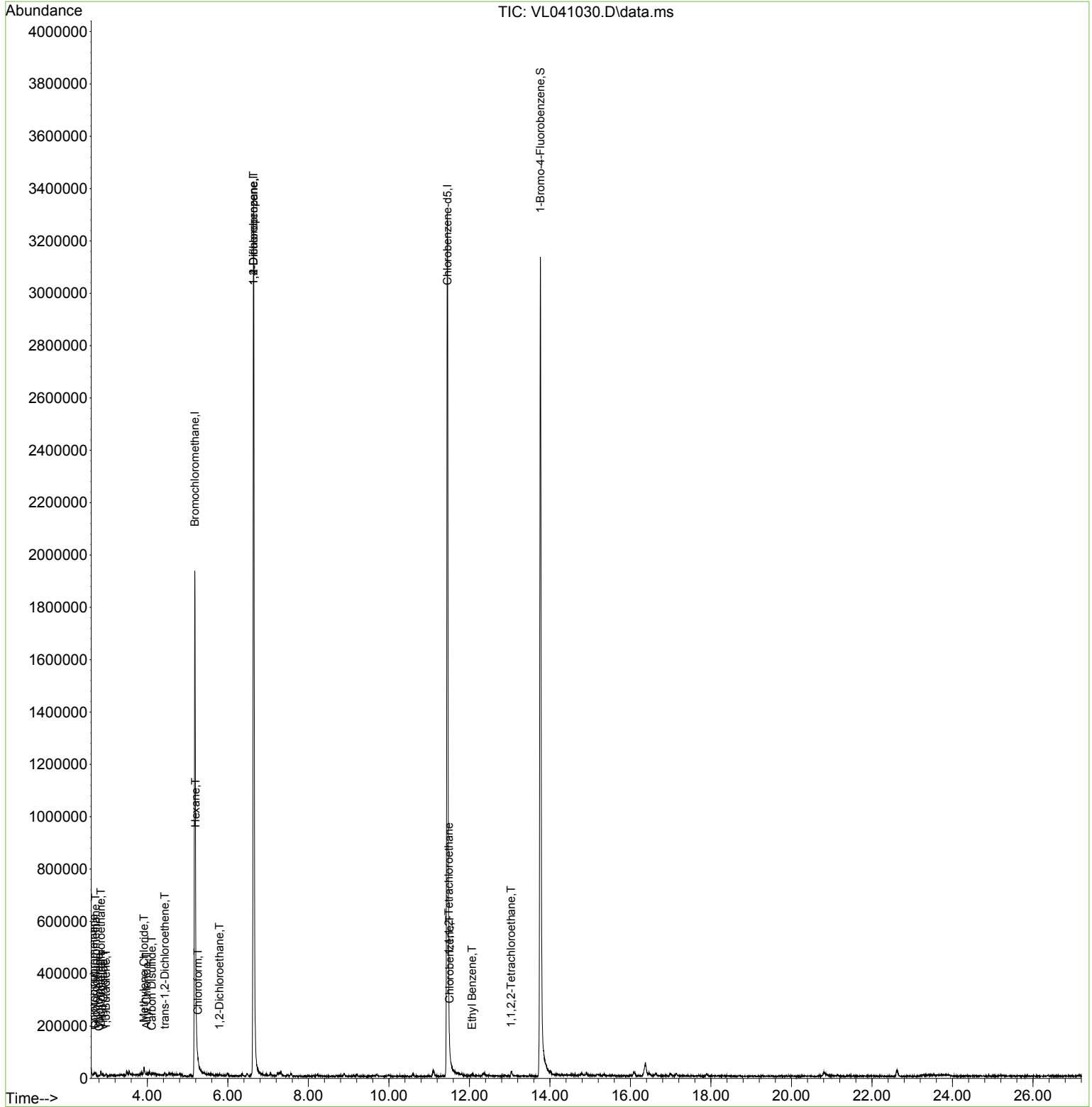
Compound		R.T.	QIon	Response	Conc	Units	Dev(Min)

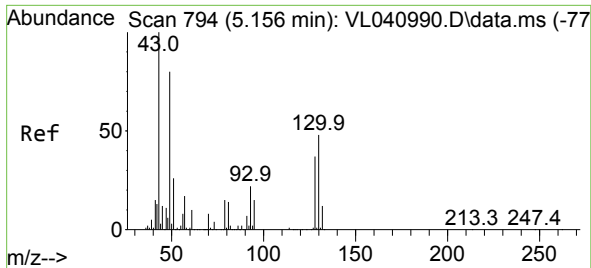
Internal Standards							
1) Bromochloromethane		5.179	49	971677	10.000	ppbv	0.00
33) 1,4-Difluorobenzene		6.639	114	2424003	10.000	ppbv	0.00
55) Chlorobenzene-d5		11.452	117	1133997	10.000	ppbv	# 0.00
System Monitoring Compounds							
68) 1-Bromo-4-Fluorobenzene		13.764	95	1570336	18.334	ppbv	0.00
Spiked Amount		10.000	Range	65 - 135	Recovery	= 183.300%#	
Target Compounds							
							Qvalue
2) Dichlorodifluoromethane		2.713	85	7037	0.033	ppbv	98
3) Chlorodifluoromethane		2.661	51	6884	0.042	ppbv #	83
4) Chloromethane		2.796	50	1759	0.029	ppbv	90
5) Vinyl Chloride		2.909	62	1734	0.029	ppbv #	87
8) Dichlorotetrafluoroethane		2.845	85	5832	0.036	ppbv	92
16) 1,3-Butadiene		2.973	39	1685	0.028	ppbv #	71
20) Methylene Chloride		3.919	84	3641	0.076	ppbv #	86
21) Allyl Chloride		3.983	41	2413	0.032	ppbv #	12
22) trans-1,2-Dichloroethene		4.433	96	1498	0.027	ppbv #	32
26) Hexane		5.198	57	2308	0.024	ppbv #	1
27) Carbon Disulfide		4.108	76	2685	0.021	ppbv #	1
29) Chloroform		5.259	83	3917	0.023	ppbv	99
37) 1,2-Dichloroethane		5.793	62	2516	0.021	ppbv	98
39) 1,2-Dichloropropane		6.639	63	628831	7.974	ppbv #	24
56) 1,1,1,2-Tetrachloroethane		11.491	131	1167	0.021	ppbv #	1
57) Chlorobenzene		11.510	112	3055	0.033	ppbv #	73
58) Ethyl Benzene		12.066	91	3652	0.024	ppbv #	86
63) 1,1,2,2-Tetrachloroethane		13.034	83	2079	0.021	ppbv #	1

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

Instrument :
MSVOA_L
ClientSampleId :

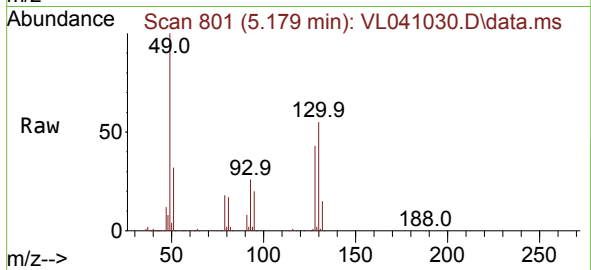
Instrument :
MSVOA_L
ClientSampleId :



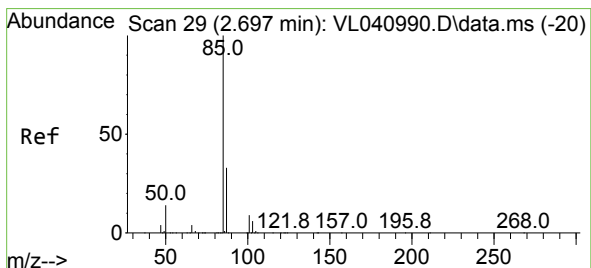
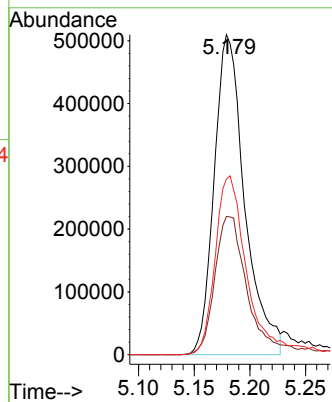
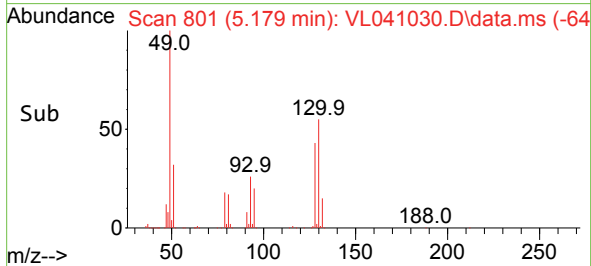


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.179 min Scan# 80
 Delta R.T. -0.000 min
 Lab File: VL041030.D
 Acq: 25 Jan 2024 15:18

Instrument :
 MSVOA_L
 ClientSampleId :

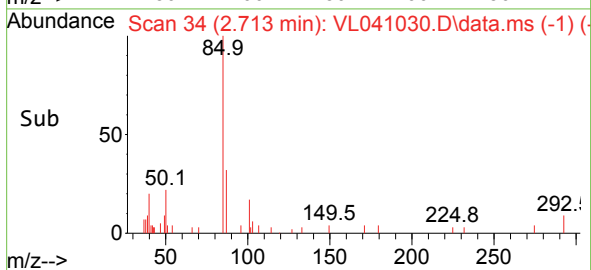
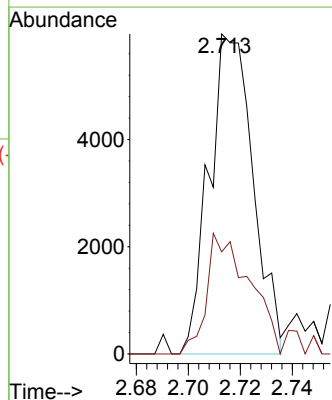
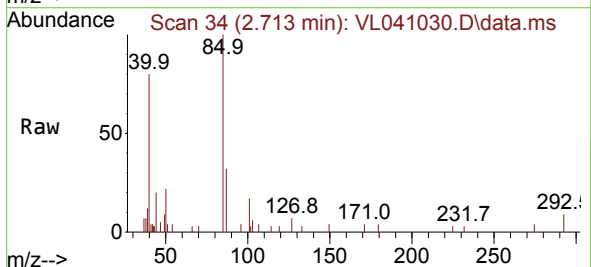


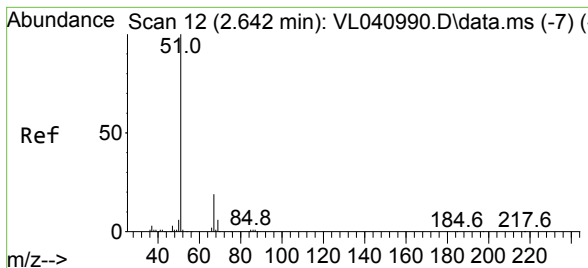
Tgt Ion: 49 Resp: 971677
 Ion Ratio Lower Upper
 49 100
 128 47.9 23.9 71.7
 130 60.5 31.1 93.5



#2
 Dichlorodifluoromethane
 Concen: 0.033 ppbv
 RT: 2.713 min Scan# 34
 Delta R.T. -0.003 min
 Lab File: VL041030.D
 Acq: 25 Jan 2024 15:18

Tgt Ion: 85 Resp: 7037
 Ion Ratio Lower Upper
 85 100
 87 31.9 26.3 39.5





#3

Chlorodifluoromethane

Concen: 0.042 ppbv

RT: 2.661 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL041030.D

Acq: 25 Jan 2024 15:18

Instrument :

MSVOA_L

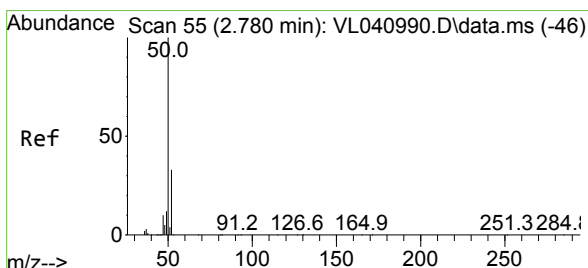
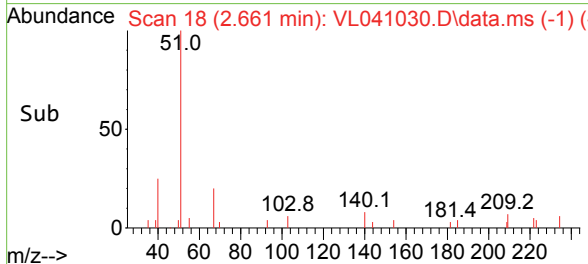
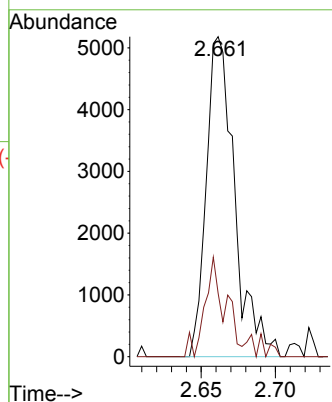
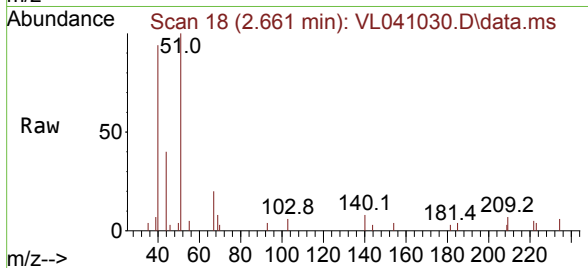
ClientSampleId :

Tgt Ion: 51 Resp: 6884

Ion Ratio Lower Upper

51 100

67 26.1 14.8 22.2#



#4

Chloromethane

Concen: 0.029 ppbv

RT: 2.796 min Scan# 60

Delta R.T. -0.003 min

Lab File: VL041030.D

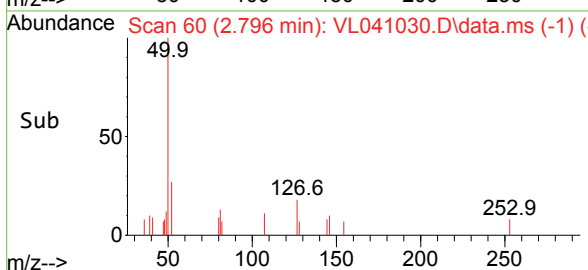
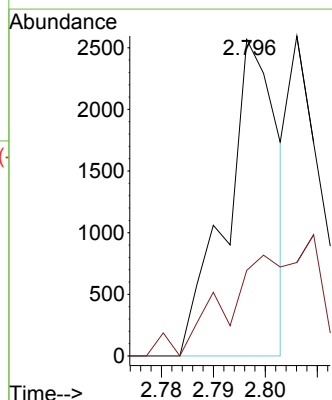
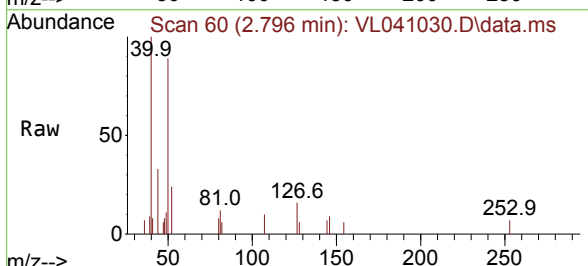
Acq: 25 Jan 2024 15:18

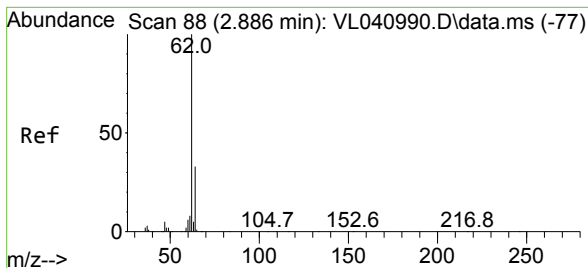
Tgt Ion: 50 Resp: 1759

Ion Ratio Lower Upper

50 100

52 27.0 26.2 39.4

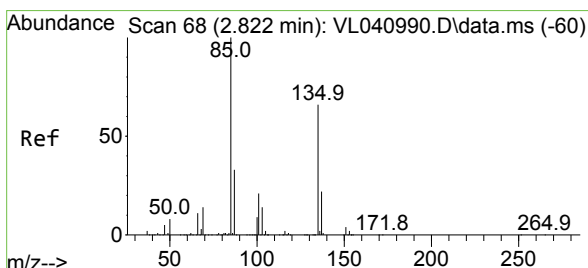
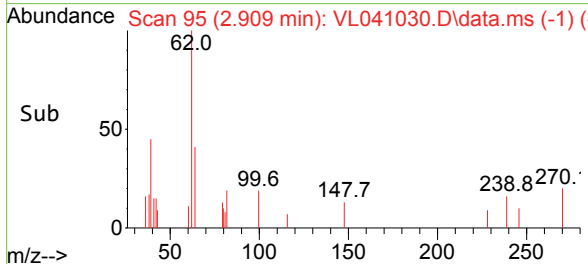
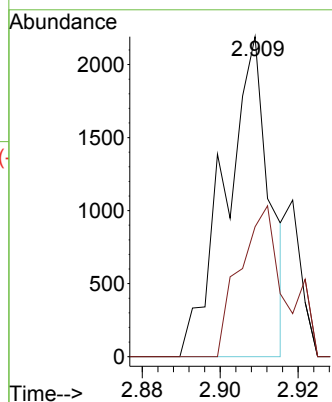
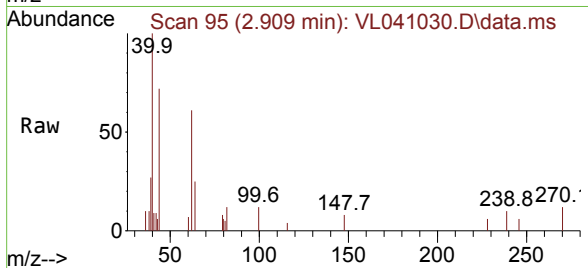




#5
 Vinyl Chloride
 Concen: 0.029 ppbv
 RT: 2.909 min Scan# 91
 Delta R.T. 0.003 min
 Lab File: VL041030.D
 Acq: 25 Jan 2024 15:18

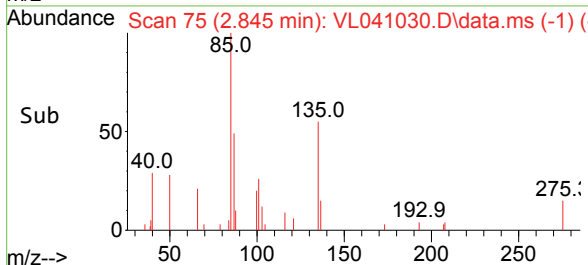
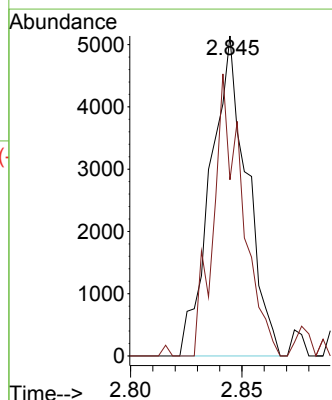
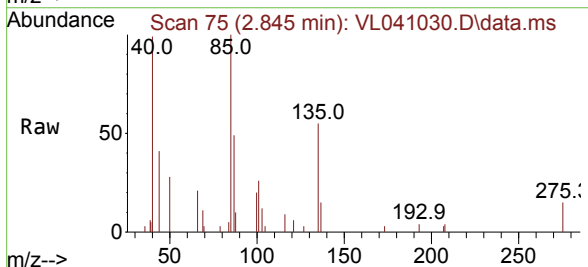
Instrument :
 MSVOA_L
 ClientSampleId :

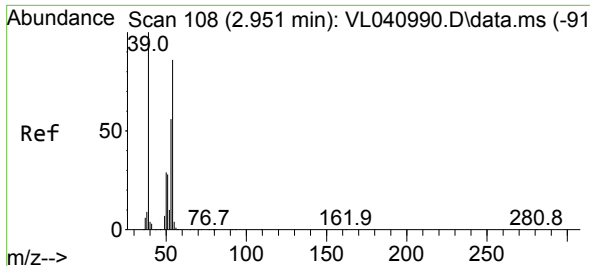
Tgt Ion: 62 Resp: 1734
 Ion Ratio Lower Upper
 62 100
 64 40.6 26.6 40.0#



#8
 Dichlorotetrafluoroethane
 Concen: 0.036 ppbv
 RT: 2.845 min Scan# 75
 Delta R.T. 0.000 min
 Lab File: VL041030.D
 Acq: 25 Jan 2024 15:18

Tgt Ion: 85 Resp: 5832
 Ion Ratio Lower Upper
 85 100
 135 75.1 55.0 82.6

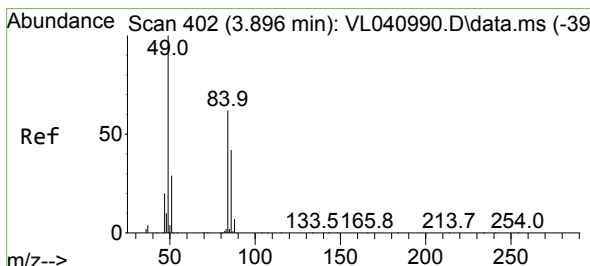
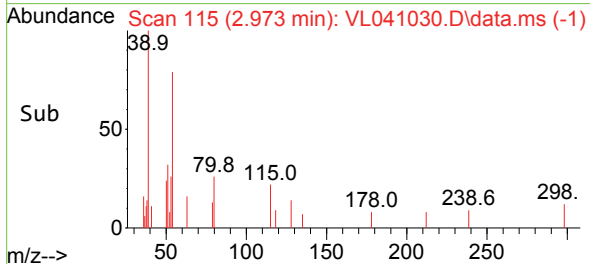
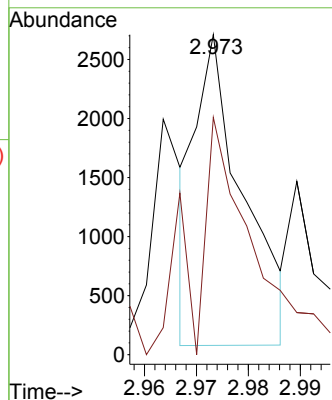
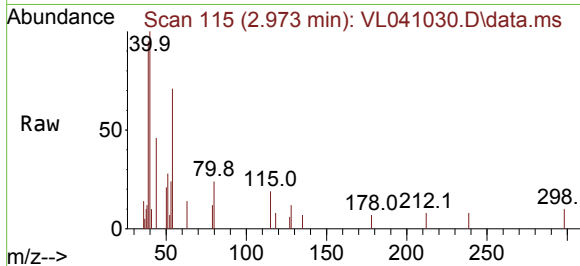




#16
1,3-Butadiene
Concen: 0.028 ppbv
RT: 2.973 min Scan# 115
Delta R.T. 0.003 min
Lab File: VL041030.D
Acq: 25 Jan 2024 15:18

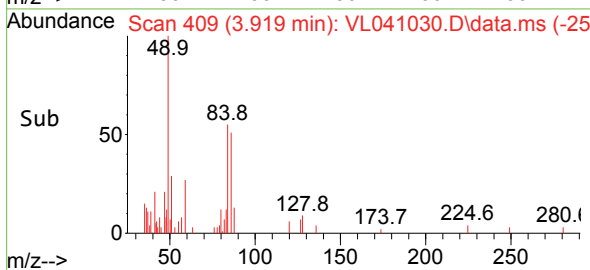
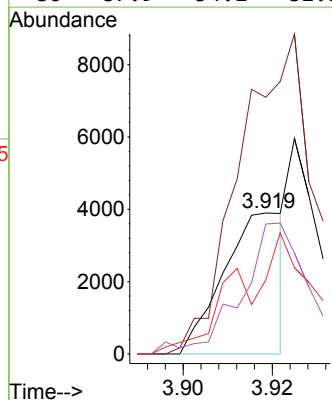
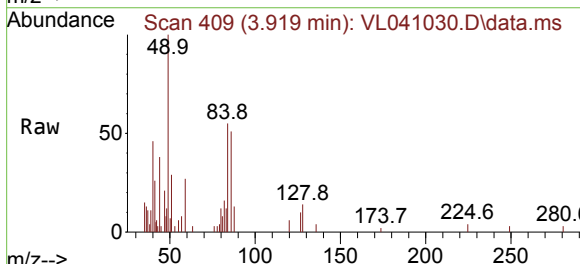
Instrument :
MSVOA_L
ClientSampleId :

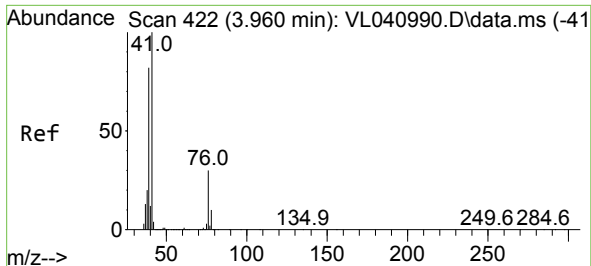
Tgt Ion: 39 Resp: 1685
Ion Ratio Lower Upper
39 100
54 103.7 62.7 94.1#



#20
Methylene Chloride
Concen: 0.076 ppbv
RT: 3.919 min Scan# 409
Delta R.T. 0.000 min
Lab File: VL041030.D
Acq: 25 Jan 2024 15:18

Tgt Ion: 84 Resp: 3641
Ion Ratio Lower Upper
84 100
49 177.6 128.1 192.1
51 44.4 36.5 54.7
86 87.9 54.1 81.1#

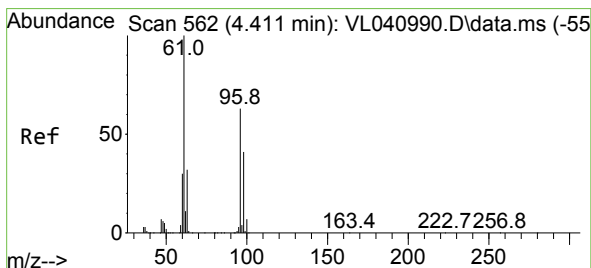
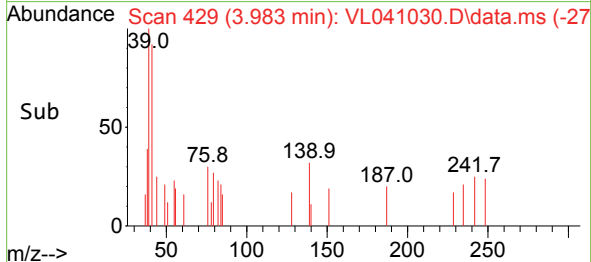
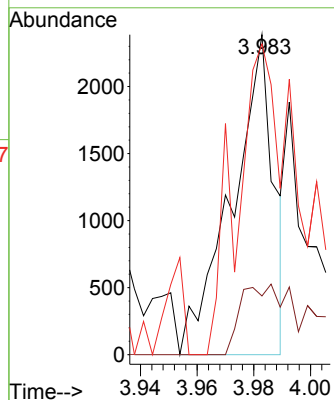
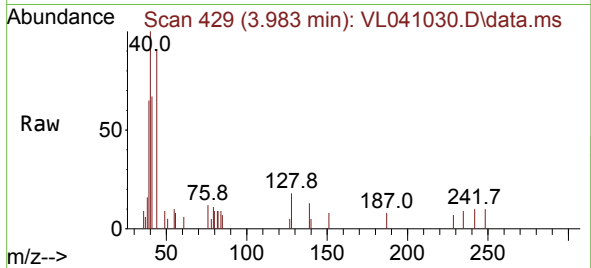




#21
 Allyl Chloride
 Concen: 0.032 ppbv
 RT: 3.983 min Scan# 41
 Delta R.T. -0.000 min
 Lab File: VL041030.D
 Acq: 25 Jan 2024 15:18

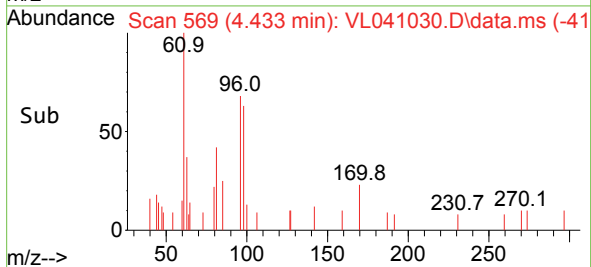
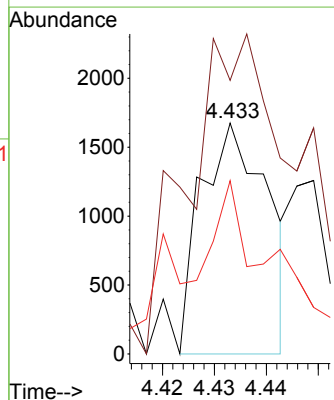
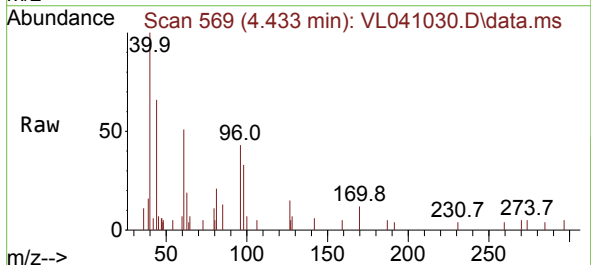
Instrument :
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 ClientSampleId :

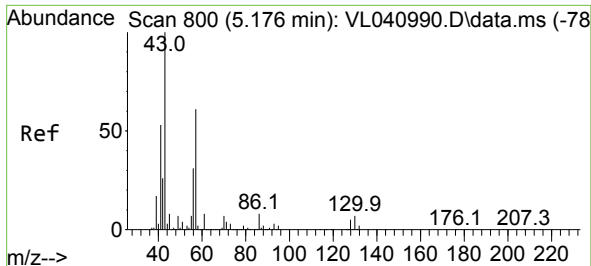
Tgt Ion: 41 Resp: 2413
 Ion Ratio Lower Upper
 41 100
 76 32.8 25.0 37.4
 39 192.3 67.0 100.6#



#22
 trans-1,2-Dichloroethene
 Concen: 0.027 ppbv
 RT: 4.433 min Scan# 569
 Delta R.T. 0.000 min
 Lab File: VL041030.D
 Acq: 25 Jan 2024 15:18

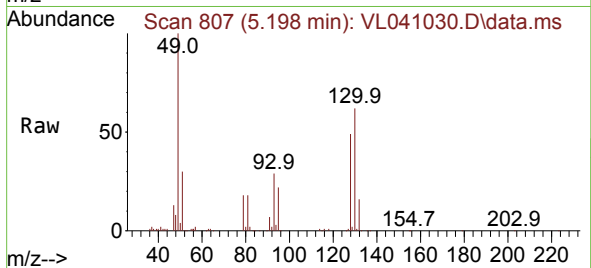
Tgt Ion: 96 Resp: 1498
 Ion Ratio Lower Upper
 96 100
 61 46.2 126.0 189.0#
 98 44.7 51.2 76.8#



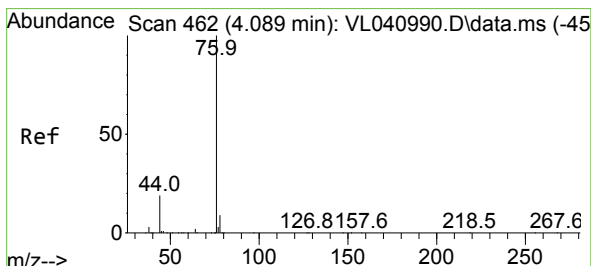
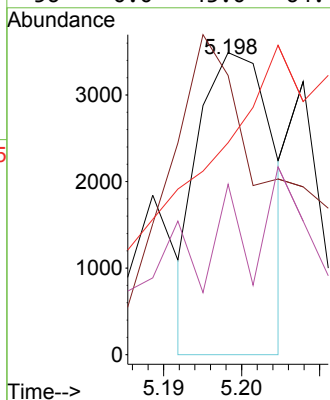
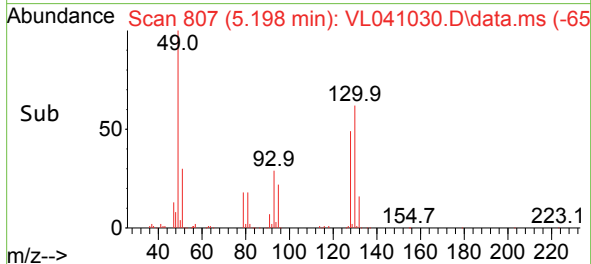


#26
Hexane
Concen: 0.024 ppbv
RT: 5.198 min Scan# 807
Delta R.T. -0.003 min
Lab File: VL041030.D
Acq: 25 Jan 2024 15:18

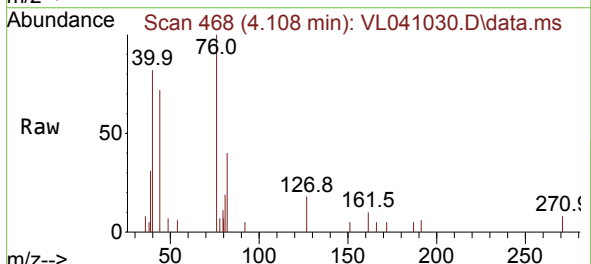
Instrument :
MSVOA_L
ClientSampleId :



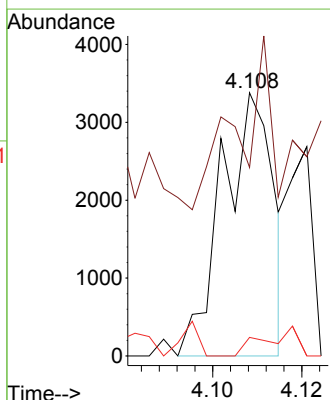
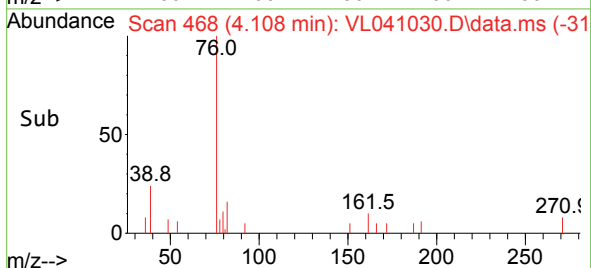
Tgt Ion: 57 Resp: 2308
Ion Ratio Lower Upper
57 100
41 238.5 74.4 111.6#
43 0.0 190.6 285.8#
56 0.0 43.0 64.4#

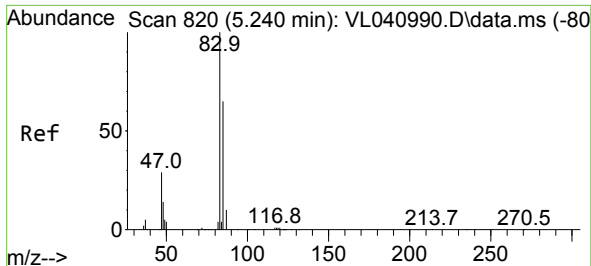


#27
Carbon Disulfide
Concen: 0.021 ppbv
RT: 4.108 min Scan# 468
Delta R.T. -0.003 min
Lab File: VL041030.D
Acq: 25 Jan 2024 15:18



Tgt Ion: 76 Resp: 2685
Ion Ratio Lower Upper
76 100
44 129.9 16.0 24.0#
78 0.0 7.8 11.8#





#29

Chloroform

Concen: 0.023 ppbv

RT: 5.259 min Scan# 81

Delta R.T. 0.000 min

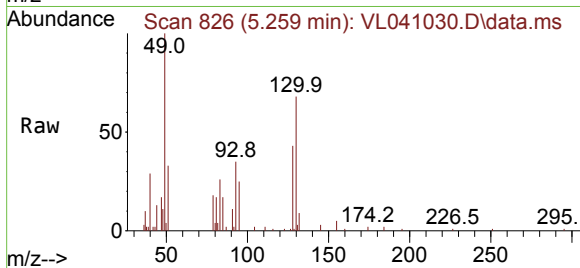
Lab File: VL041030.D

Acq: 25 Jan 2024 15:18

Instrument :

MSVOA_L

ClientSampleId :

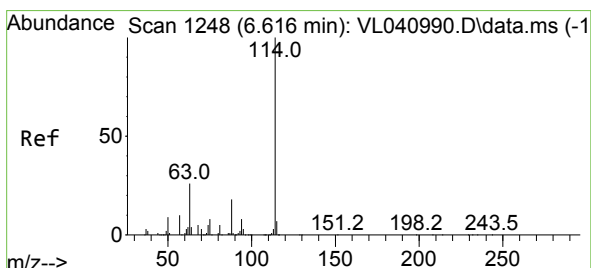
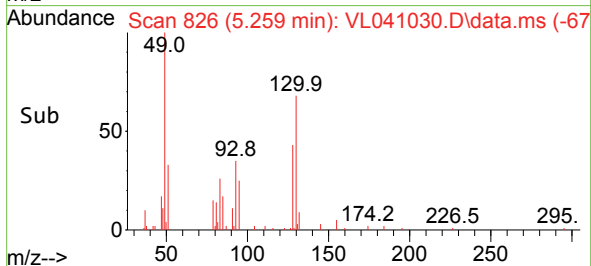
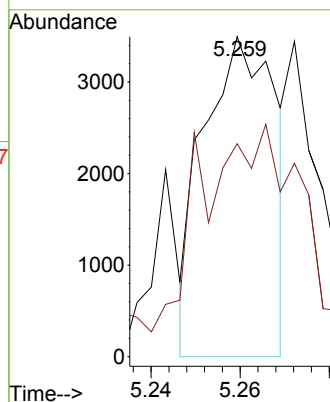


Tgt Ion: 83 Resp: 3917

Ion Ratio Lower Upper

83 100

85 63.8 51.6 77.4



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 1255

Delta R.T. -0.003 min

Lab File: VL041030.D

Acq: 25 Jan 2024 15:18

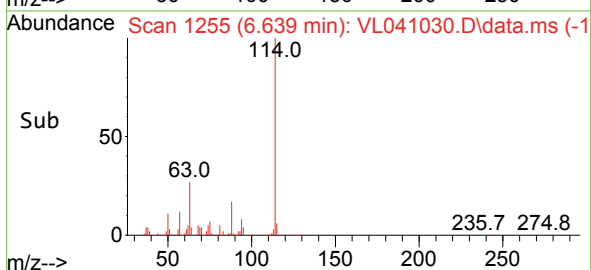
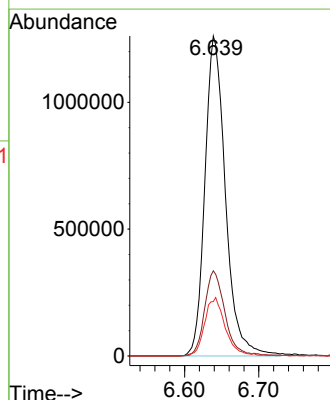
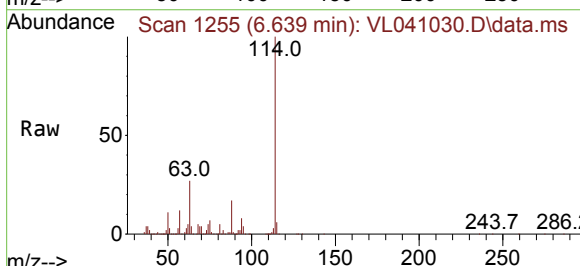
Tgt Ion: 114 Resp: 2424003

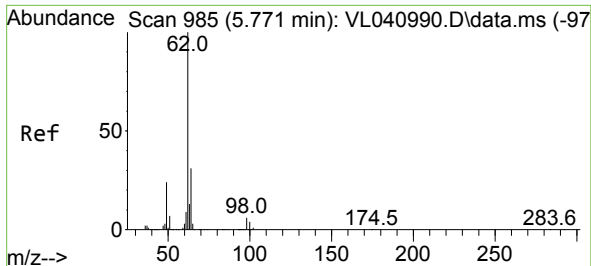
Ion Ratio Lower Upper

114 100

63 26.7 20.8 31.2

88 18.5 14.3 21.5





#37

1,2-Dichloroethane

Concen: 0.021 ppbv

RT: 5.793 min Scan# 91

Delta R.T. -0.000 min

Lab File: VL041030.D

Acq: 25 Jan 2024 15:18

Instrument :

MSVOA_L

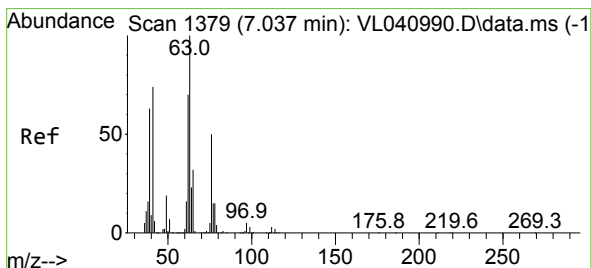
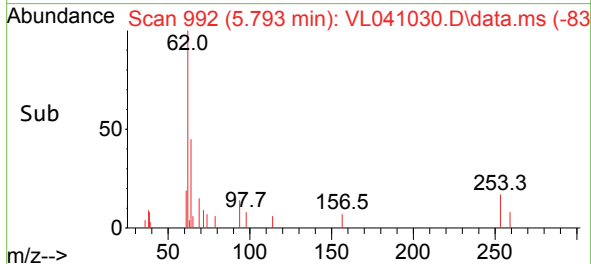
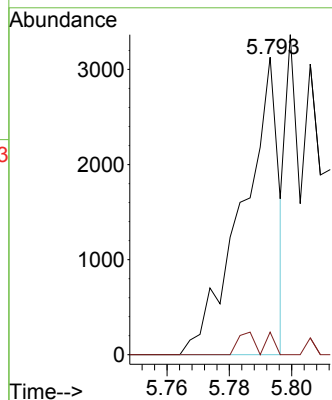
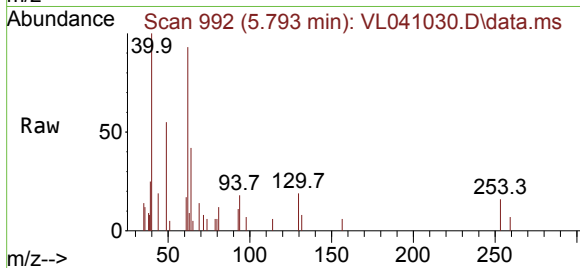
ClientSampleId :

Tgt Ion: 62 Resp: 2516

Ion Ratio Lower Upper

62 100

98 6.6 4.7 7.1



#39

1,2-Dichloropropane

Concen: 7.974 ppbv

RT: 6.639 min Scan# 1255

Delta R.T. -0.424 min

Lab File: VL041030.D

Acq: 25 Jan 2024 15:18

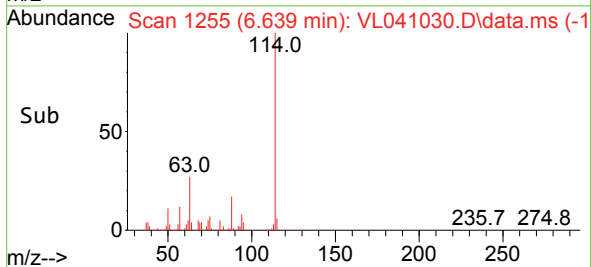
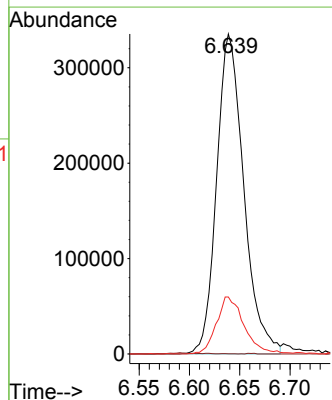
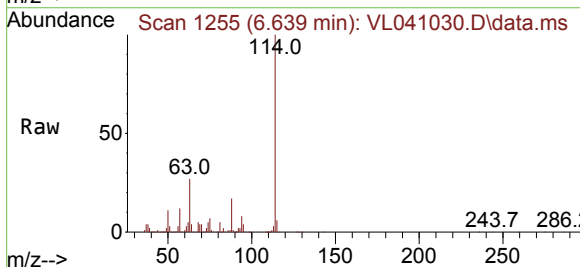
Tgt Ion: 63 Resp: 628831

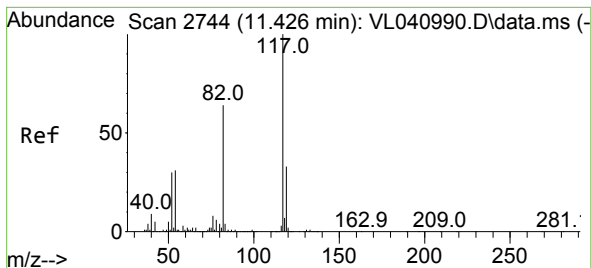
Ion Ratio Lower Upper

63 100

41 0.1 59.6 89.4#

62 17.8 55.6 83.4#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.452 min Scan# 21

Delta R.T. -0.003 min

Lab File: VL041030.D

Acq: 25 Jan 2024 15:18

Instrument :

MSVOA_L

ClientSampleId :

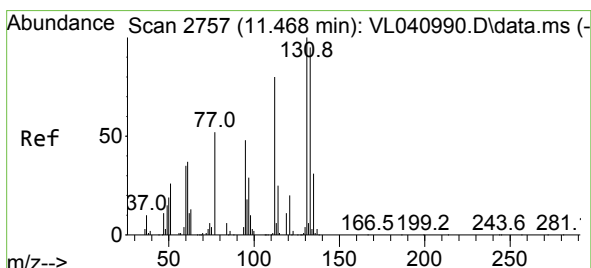
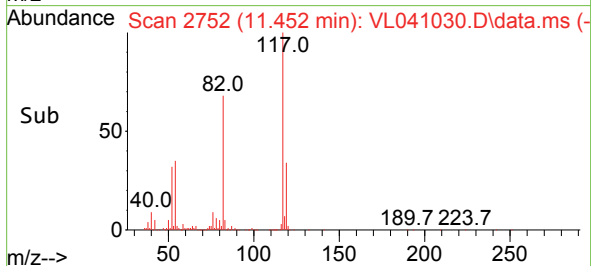
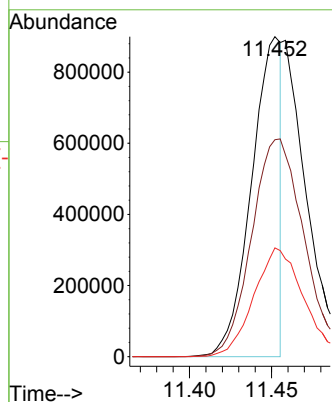
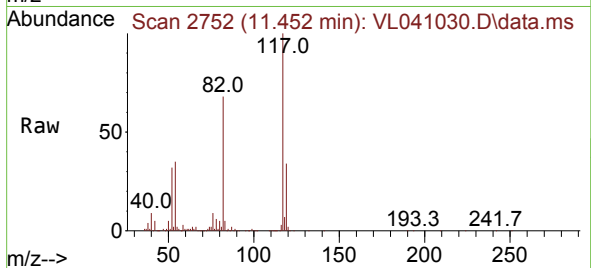
Tgt Ion:117 Resp: 1133997

Ion Ratio Lower Upper

117 100

82 125.1 51.7 77.5#

119 59.4 23.8 35.6#



#56

1,1,1,2-Tetrachloroethane

Concen: 0.021 ppbv

RT: 11.491 min Scan# 2764

Delta R.T. -0.003 min

Lab File: VL041030.D

Acq: 25 Jan 2024 15:18

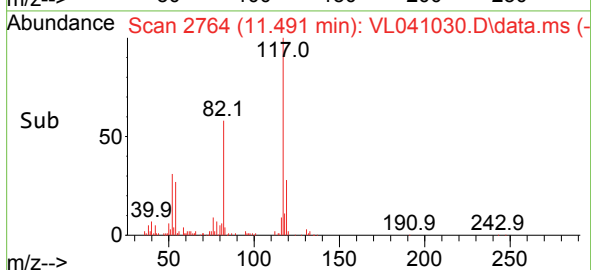
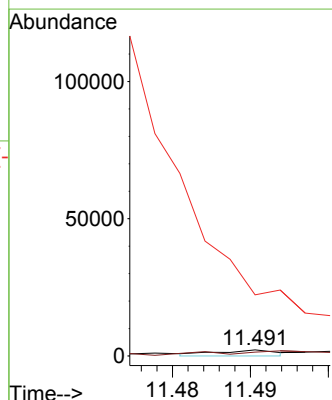
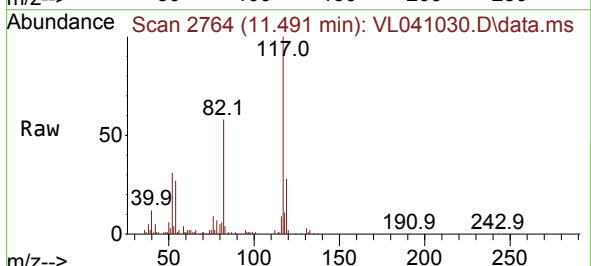
Tgt Ion:131 Resp: 1167

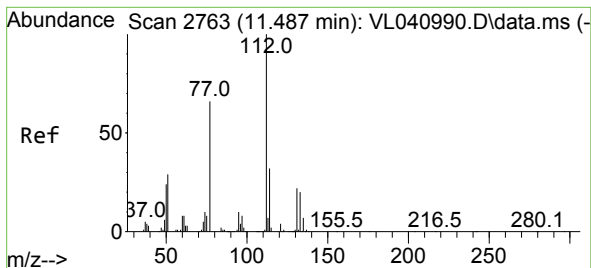
Ion Ratio Lower Upper

131 100

133 295.8 75.9 113.9#

119 0.0 49.2 73.8#

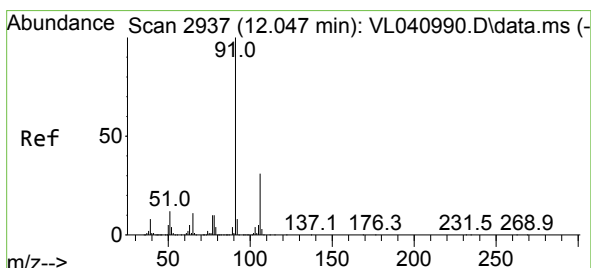
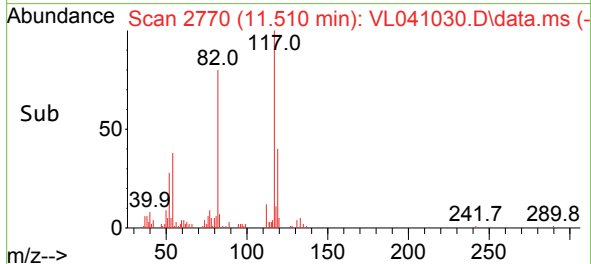
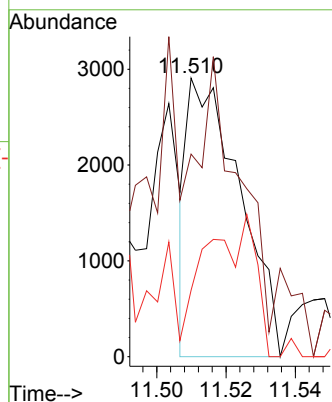
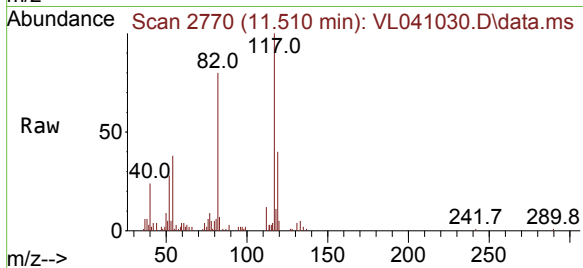




#57
Chlorobenzene
Concen: 0.033 ppbv
RT: 11.510 min Scan# 211
Delta R.T. -0.003 min
Lab File: VL041030.D
Acq: 25 Jan 2024 15:18

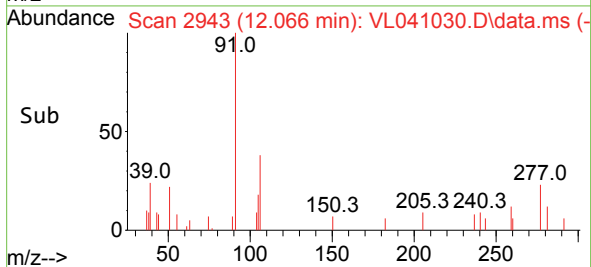
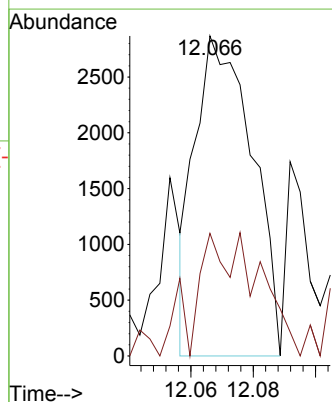
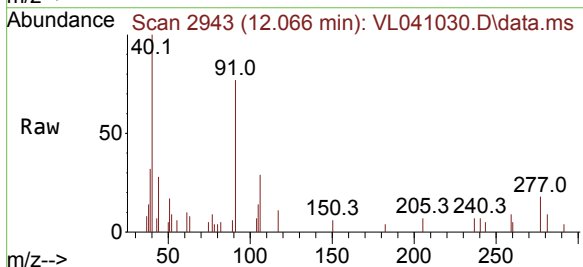
Instrument :
MSVOA_L
ClientSampleId :

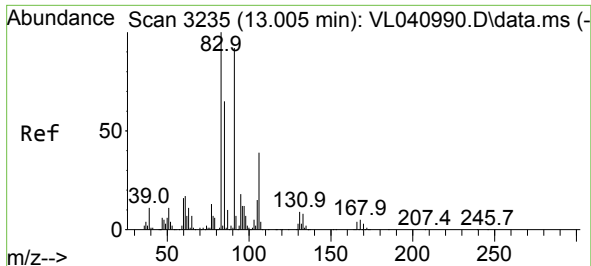
Tgt Ion:112 Resp: 3055
Ion Ratio Lower Upper
112 100
77 41.0 53.4 80.0#
114 23.8 29.1 35.5#



#58
Ethyl Benzene
Concen: 0.024 ppbv
RT: 12.066 min Scan# 2943
Delta R.T. -0.010 min
Lab File: VL041030.D
Acq: 25 Jan 2024 15:18

Tgt Ion: 91 Resp: 3652
Ion Ratio Lower Upper
91 100
106 23.6 24.8 37.2#

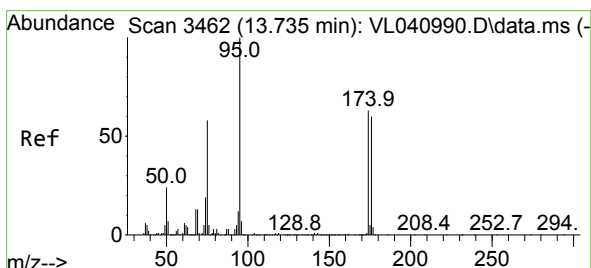
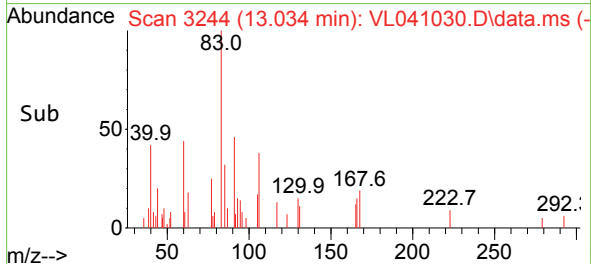
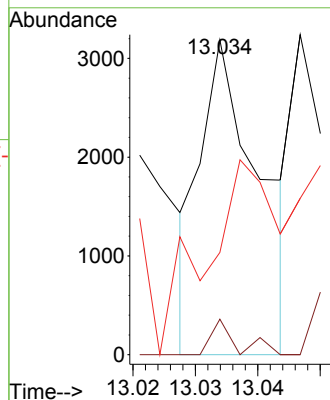
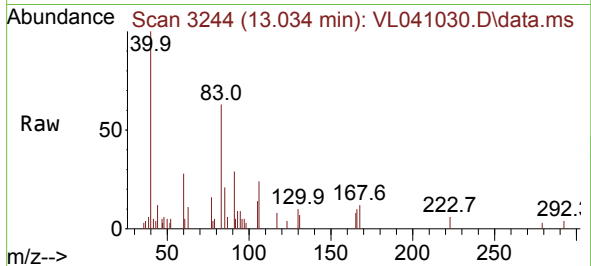




#63
1,1,2,2-Tetrachloroethane
Concen: 0.021 ppbv
RT: 13.034 min Scan# 31
Delta R.T. -0.000 min
Lab File: VL041030.D
Acq: 25 Jan 2024 15:18

Instrument :
MSVOA_L
ClientSampleId :

Tgt Ion: 83 Resp: 2079
Ion Ratio Lower Upper
83 100
131 0.0 4.6 13.8#
85 183.4 33.0 99.0#



#68
1-Bromo-4-Fluorobenzene
Concen: 18.334 ppbv
RT: 13.764 min Scan# 3471
Delta R.T. 0.000 min
Lab File: VL041030.D
Acq: 25 Jan 2024 15:18

Tgt Ion: 95 Resp: 1570336
Ion Ratio Lower Upper
95 100
174 60.4 49.1 73.7
175 4.4 3.7 5.5

