

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
 Data File : VL040932.D
 Acq On : 21 Dec 2023 16:35
 Operator : SY/MD
 Sample : VIBLK
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VIBLK

Quant Time: Dec 22 00:08:33 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Thu Dec 21 07:32:42 2023
 Response via : Initial Calibration

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

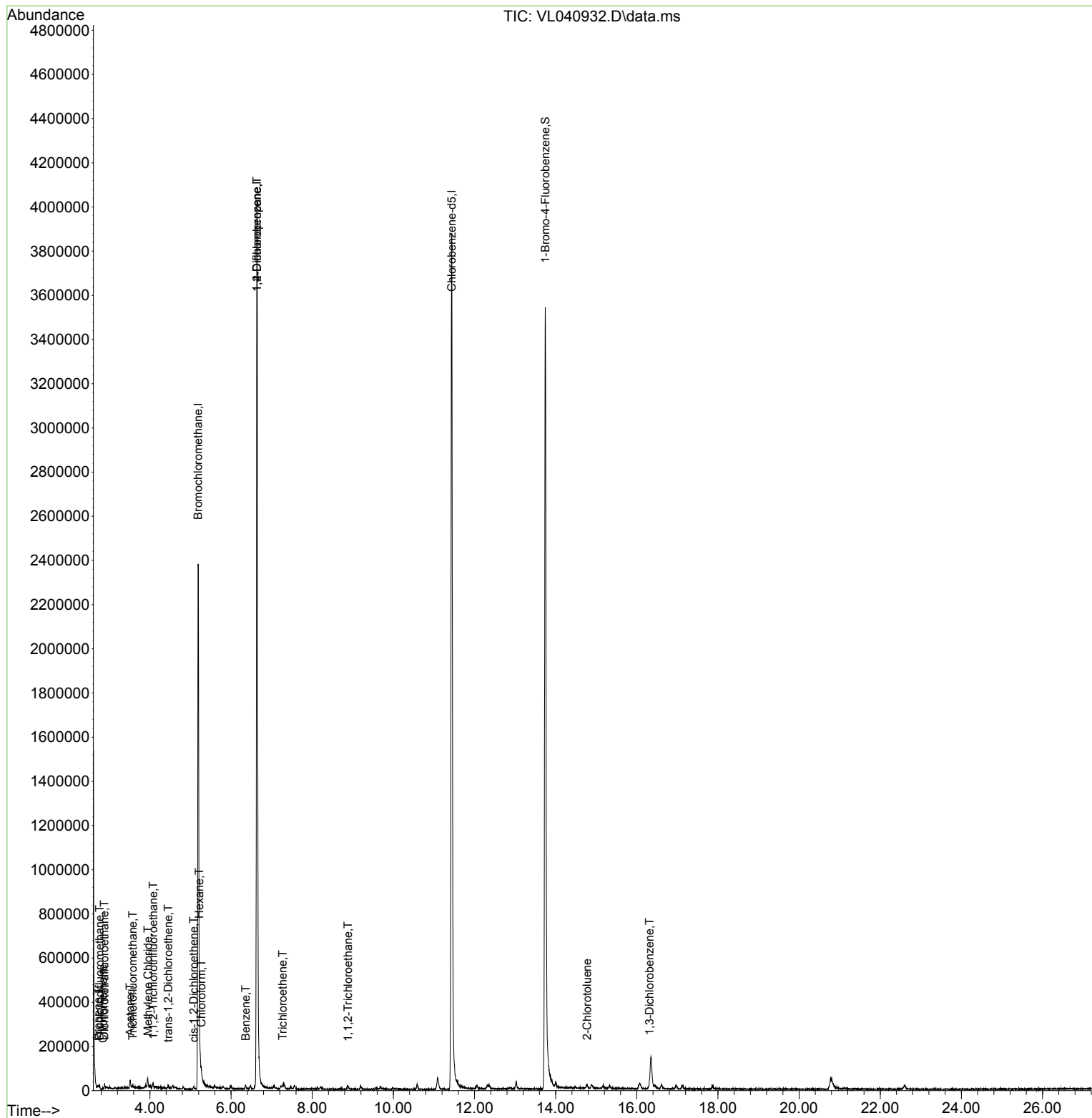
Internal Standards						
1) Bromochloromethane	5.188	49	1223063	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.639	114	3082098	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.439	117	2615848	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.744	95	1922364	9.977	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.800%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.758	85	10824	0.046	ppbv	92
4) Chloromethane	2.838	50	3726	0.055	ppbv	93
8) Dichlorotetrafluoroethane	2.880	85	8174	0.049	ppbv	95
9) Propene	2.722	41	4845	0.080	ppbv	94
11) Trichlorofluoromethane	3.578	101	8528	0.047	ppbv	99
12) 1,1,2-Trichlorotrifluo...	4.082	101	6388	0.045	ppbv #	68
15) Acetone	3.513	43	37484	0.256	ppbv #	85
20) Methylene Chloride	3.951	84	5190	0.099	ppbv #	66
22) trans-1,2-Dichloroethene	4.449	96	2943	0.044	ppbv	83
26) Hexane	5.214	57	5570	0.049	ppbv #	77
29) Chloroform	5.272	83	9088	0.048	ppbv #	68
31) cis-1,2-Dichloroethene	5.079	61	4038	0.035	ppbv #	77
36) Benzene	6.362	78	9847	0.041	ppbv	93
38) Trichloroethene	7.272	130	4472	0.049	ppbv #	81
39) 1,2-Dichloropropane	6.639	63	760535	8.033	ppbv #	24
47) 1,1,2-Trichloroethane	8.883	97	3372	0.034	ppbv #	70
71) 2-Chlorotoluene	14.773	91	11373	0.037	ppbv	69
75) 1,3-Dichlorobenzene	16.313	146	4947	0.031	ppbv #	44

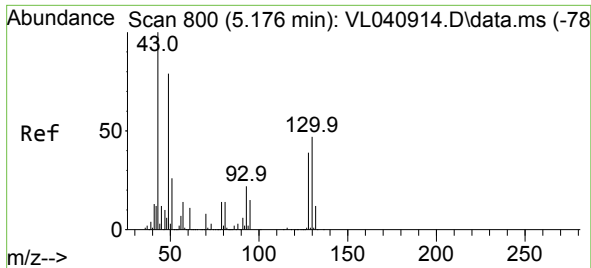
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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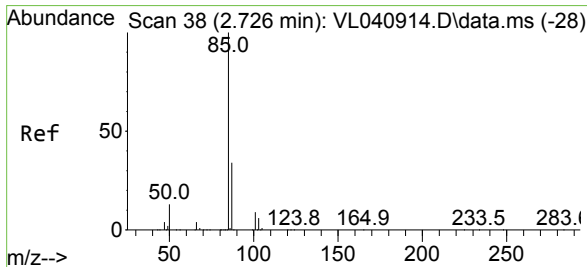
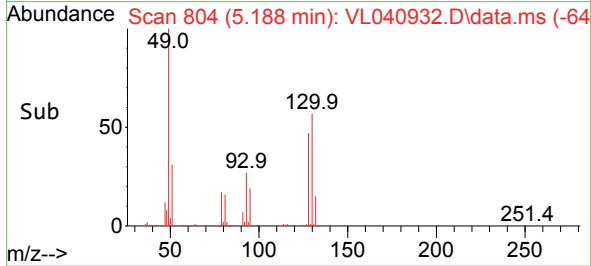
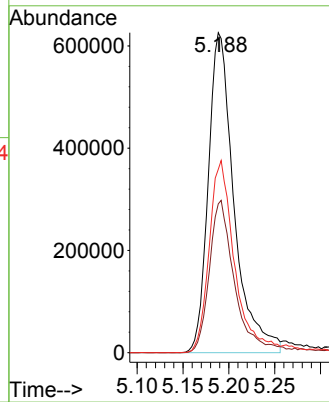
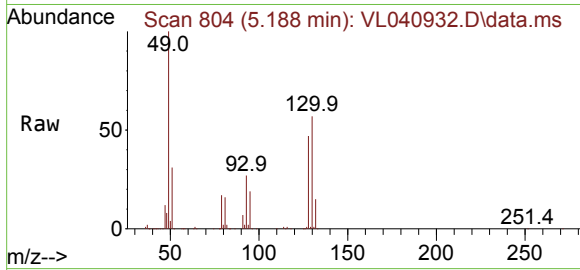




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.188 min Scan# 80
Delta R.T. 0.012 min
Lab File: VL040932.D
Acq: 21 Dec 2023 16:35

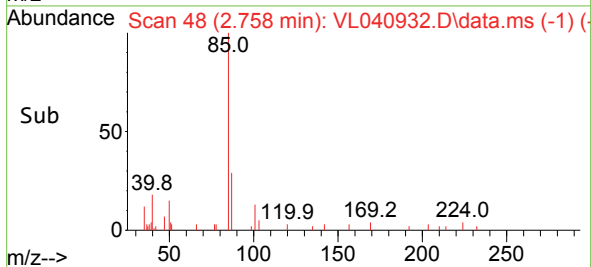
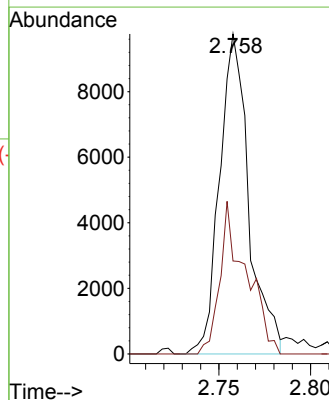
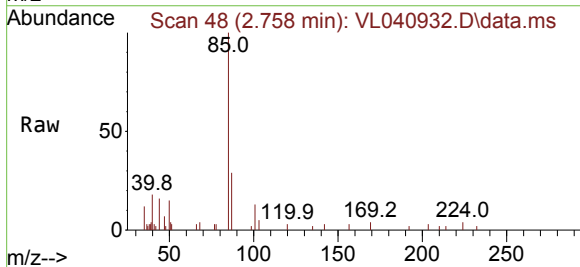
Instrument :
MSVOA_L
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VIBLK

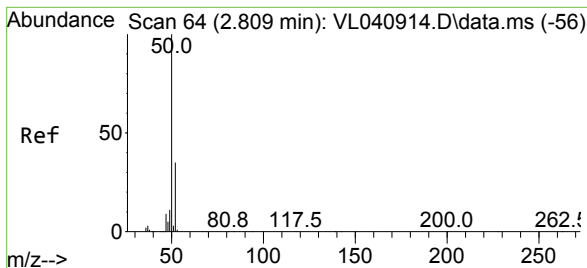
Tgt Ion: 49 Resp: 1223063
Ion Ratio Lower Upper
49 100
128 49.1 23.8 71.2
130 62.1 30.1 90.5



#2
Dichlorodifluoromethane
Concen: 0.046 ppbv
RT: 2.758 min Scan# 48
Delta R.T. 0.032 min
Lab File: VL040932.D
Acq: 21 Dec 2023 16:35

Tgt Ion: 85 Resp: 10824
Ion Ratio Lower Upper
85 100
87 29.1 27.0 40.6





#4

Chloromethane

Concen: 0.055 ppbv

RT: 2.838 min Scan# 71

Delta R.T. 0.029 min

Lab File: VL040932.D

Acq: 21 Dec 2023 16:35

Instrument :

MSVOA_L

ClientSampleId :

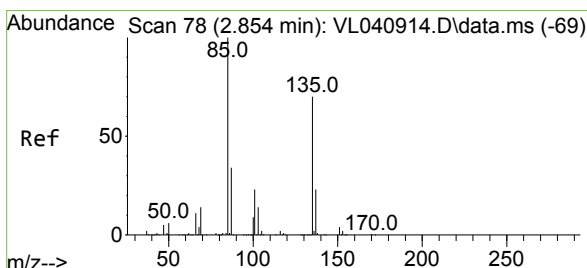
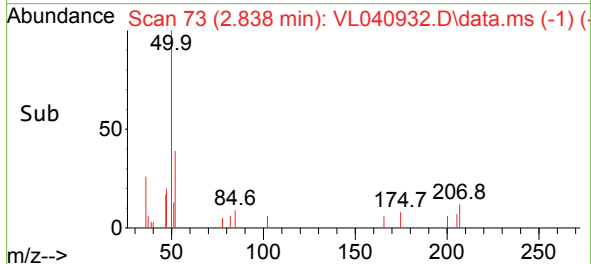
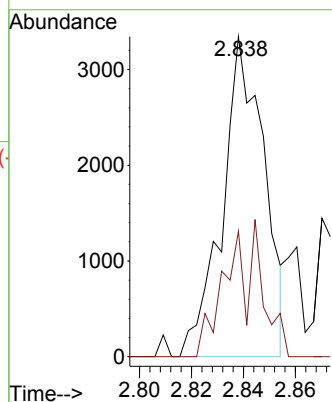
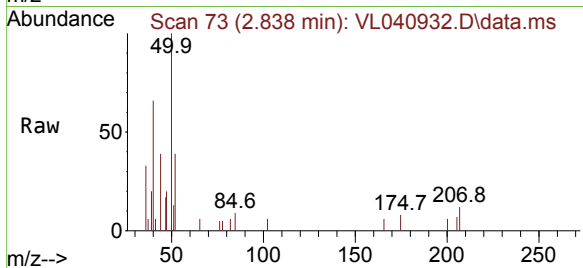
VIBLK

Tgt Ion: 50 Resp: 3726

Ion Ratio Lower Upper

50 100

52 39.3 28.0 42.0



#8

Dichlorotetrafluoroethane

Concen: 0.049 ppbv

RT: 2.880 min Scan# 86

Delta R.T. 0.026 min

Lab File: VL040932.D

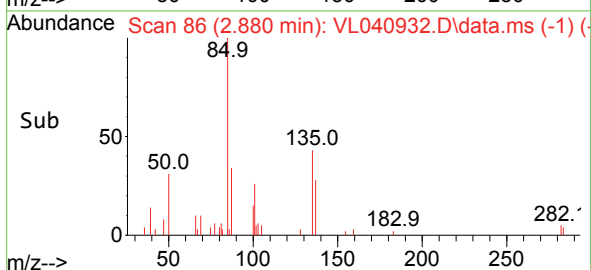
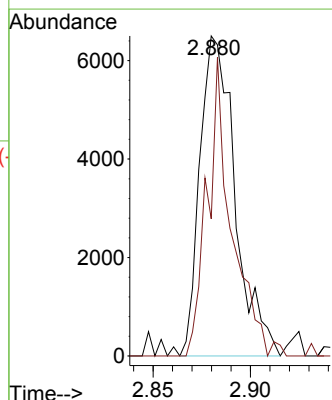
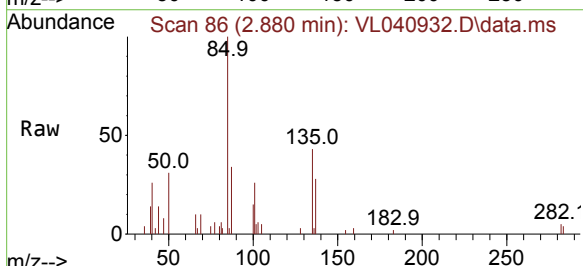
Acq: 21 Dec 2023 16:35

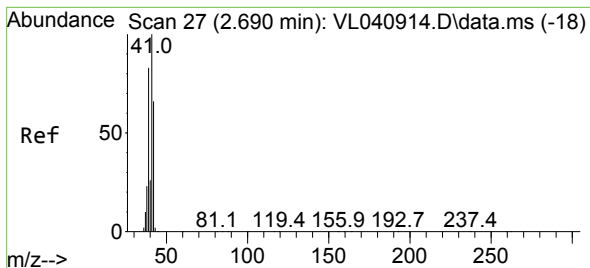
Tgt Ion: 85 Resp: 8174

Ion Ratio Lower Upper

85 100

135 65.5 55.8 83.8





#9

Propene

Concen: 0.080 ppbv

RT: 2.722 min Scan# 31

Delta R.T. 0.032 min

Lab File: VL040932.D

Acq: 21 Dec 2023 16:35

Instrument :

MSVOA_L

ClientSampleId :

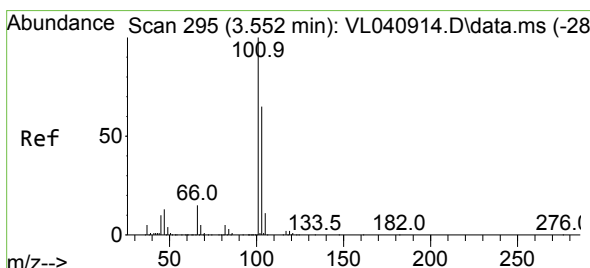
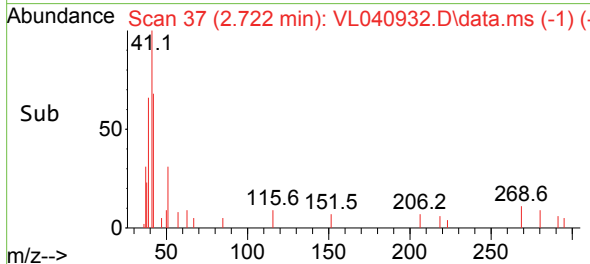
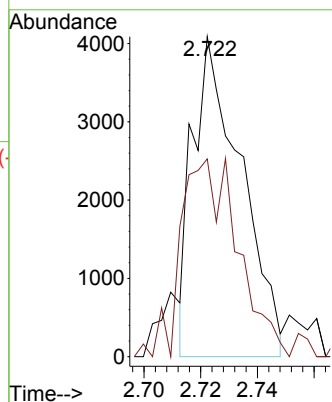
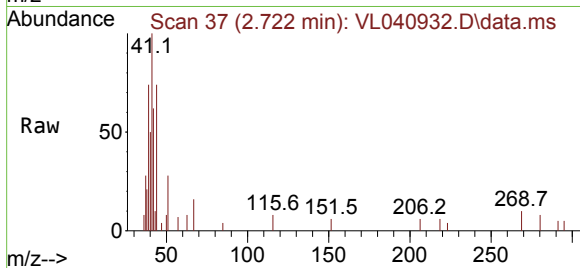
VIBLK

Tgt Ion: 41 Resp: 4845

Ion Ratio Lower Upper

41 100

42 75.0 55.8 83.6



#11

Trichlorofluoromethane

Concen: 0.047 ppbv

RT: 3.578 min Scan# 303

Delta R.T. 0.026 min

Lab File: VL040932.D

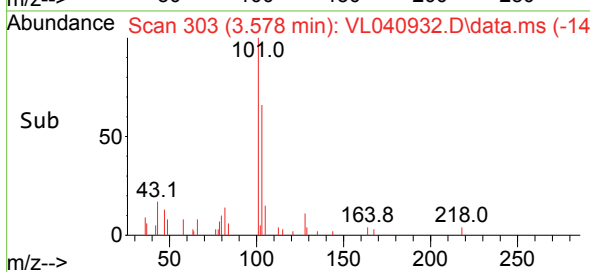
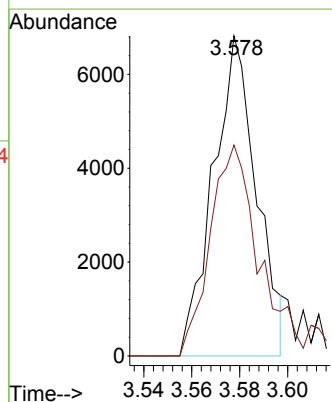
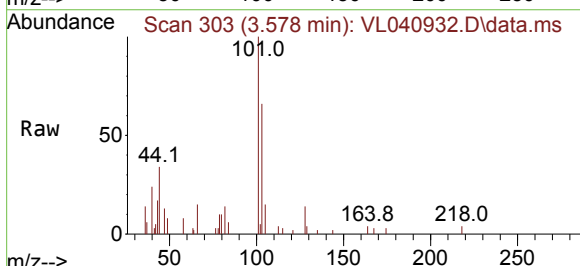
Acq: 21 Dec 2023 16:35

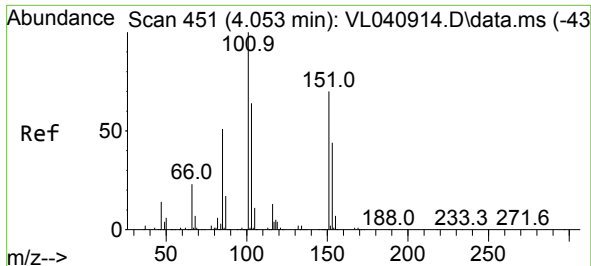
Tgt Ion: 101 Resp: 8528

Ion Ratio Lower Upper

101 100

103 65.9 51.9 77.9

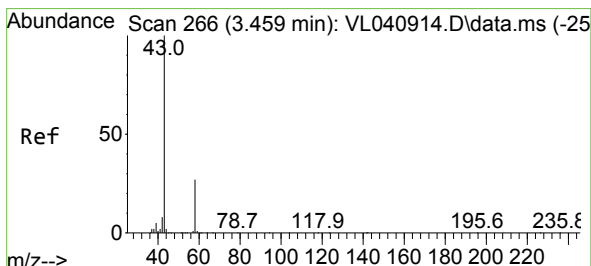
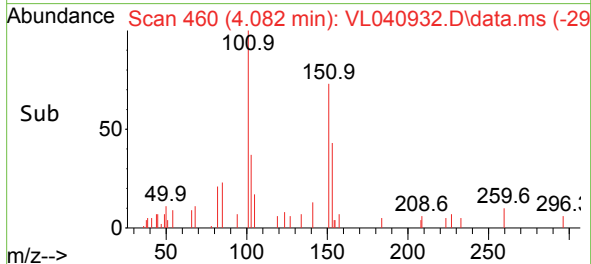
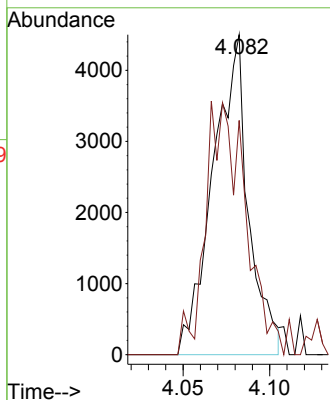
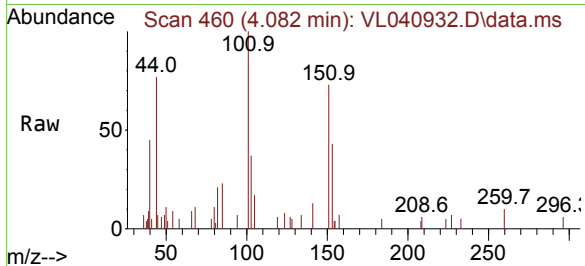




#12
1,1,2-Trichlorotrifluoroethane
Concen: 0.045 ppbv
RT: 4.082 min Scan# 41
Delta R.T. 0.029 min
Lab File: VL040932.D
Acq: 21 Dec 2023 16:35

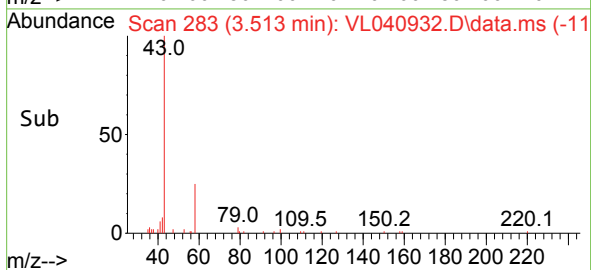
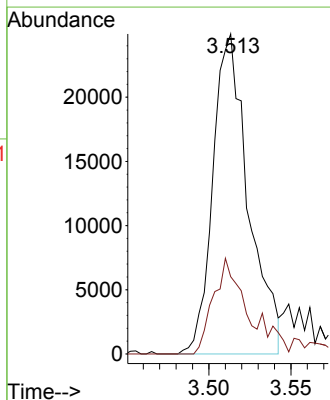
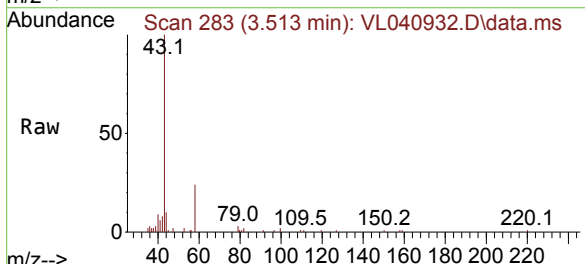
Instrument :
MSVOA_L
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VIBLK

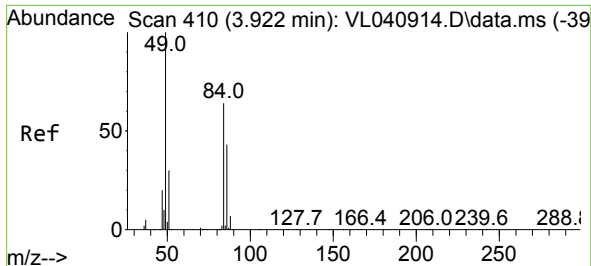
Tgt Ion:101 Resp: 6388
Ion Ratio Lower Upper
101 100
151 96.0 55.8 83.8#



#15
Acetone
Concen: 0.256 ppbv
RT: 3.513 min Scan# 283
Delta R.T. 0.055 min
Lab File: VL040932.D
Acq: 21 Dec 2023 16:35

Tgt Ion: 43 Resp: 37484
Ion Ratio Lower Upper
43 100
58 33.1 20.6 30.8#

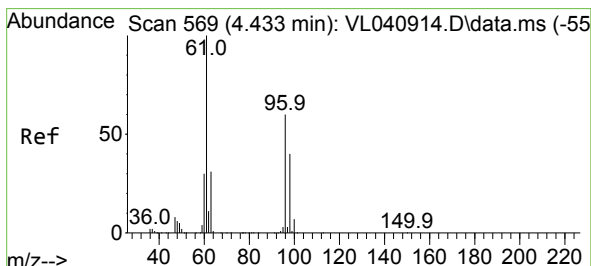
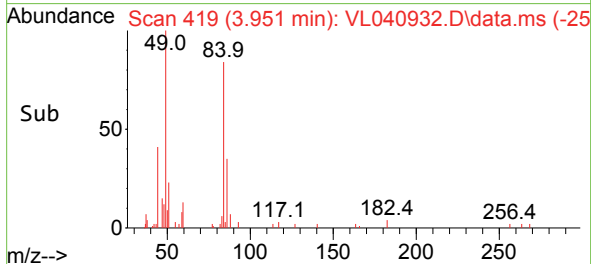
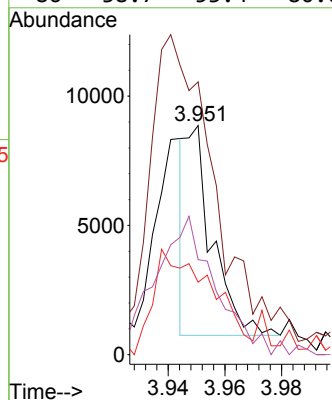
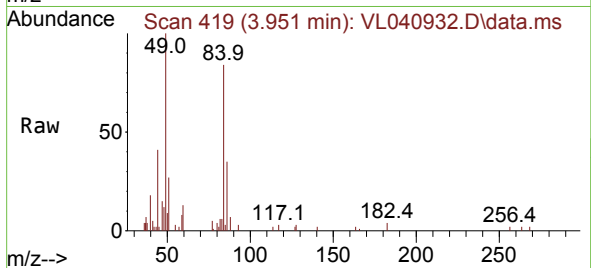




#20
Methylene Chloride
Concen: 0.099 ppbv
RT: 3.951 min Scan# 419
Delta R.T. 0.029 min
Lab File: VL040932.D
Acq: 21 Dec 2023 16:35

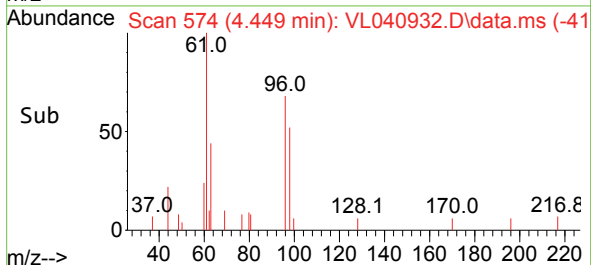
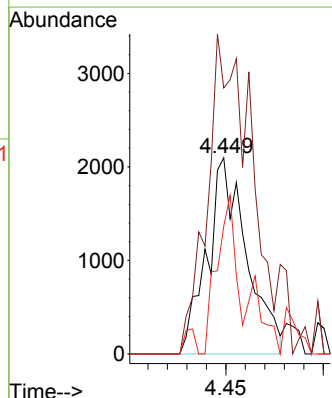
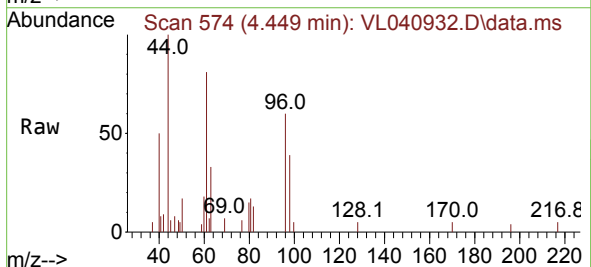
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

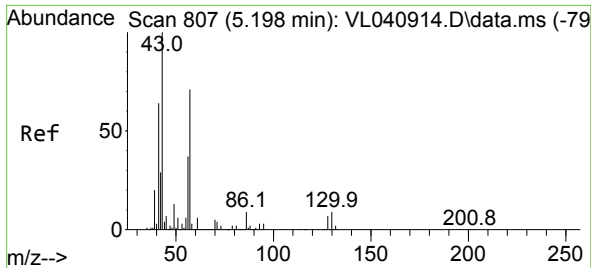
Tgt Ion:	84	Resp:	5190
Ion	Ratio	Lower	Upper
84	100		
49	107.5	124.6	187.0#
51	30.3	37.2	55.8#
86	38.7	53.4	80.0#



#22
trans-1,2-Dichloroethene
Concen: 0.044 ppbv
RT: 4.449 min Scan# 574
Delta R.T. 0.016 min
Lab File: VL040932.D
Acq: 21 Dec 2023 16:35

Tgt Ion:	96	Resp:	2943
Ion	Ratio	Lower	Upper
96	100		
61	135.6	133.0	199.6
98	65.0	53.7	80.5

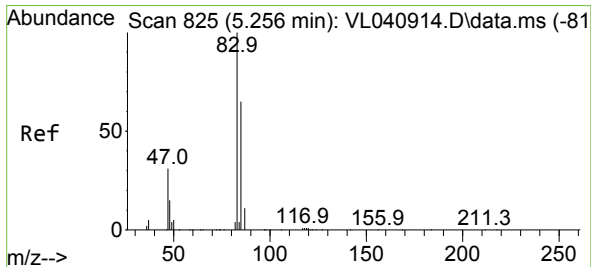
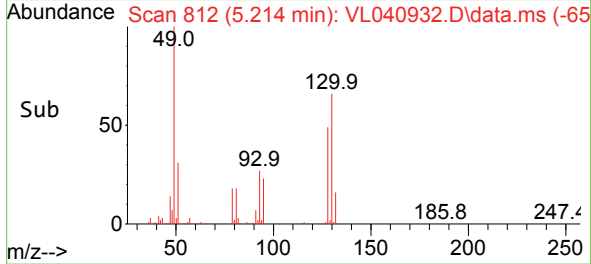
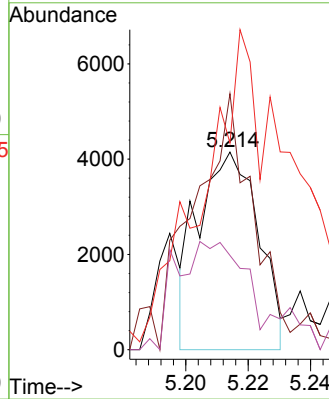
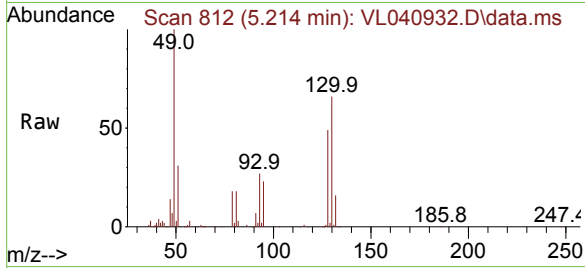




#26
Hexane
Concen: 0.049 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.016 min
Lab File: VL040932.D
Acq: 21 Dec 2023 16:35

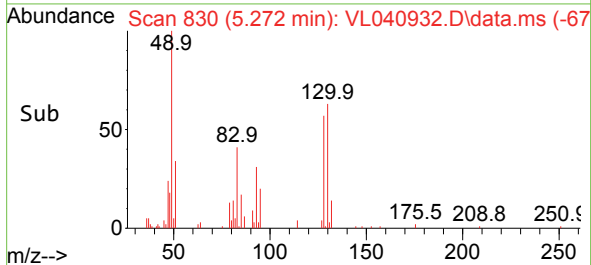
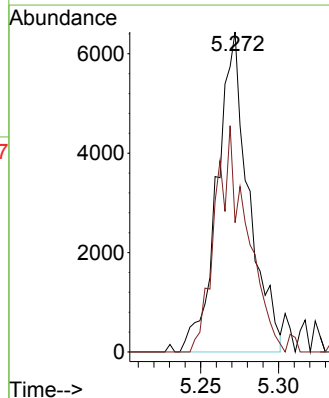
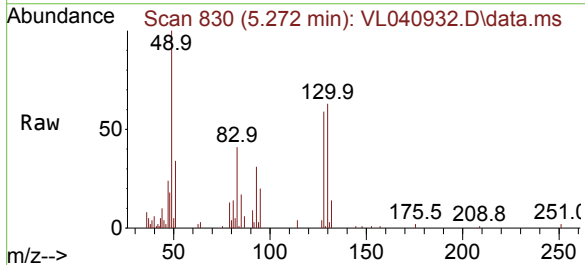
Instrument :
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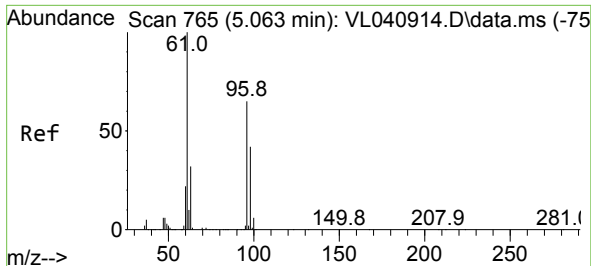
Tgt Ion: 57 Resp: 5570
Ion Ratio Lower Upper
57 100
41 147.5 75.2 112.8#
43 247.7 188.0 282.0
56 75.0 42.3 63.5#



#29
Chloroform
Concen: 0.048 ppbv
RT: 5.272 min Scan# 830
Delta R.T. 0.016 min
Lab File: VL040932.D
Acq: 21 Dec 2023 16:35

Tgt Ion: 83 Resp: 9088
Ion Ratio Lower Upper
83 100
85 40.4 52.3 78.5#

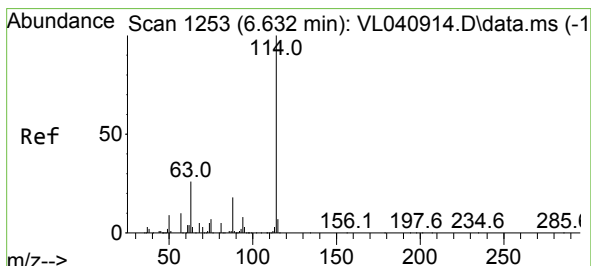
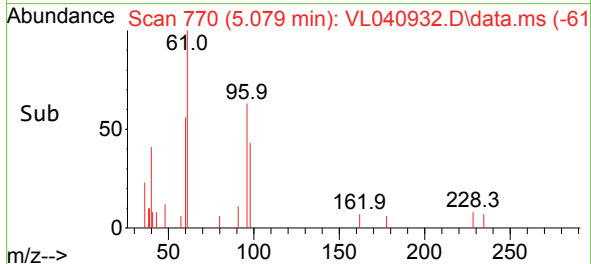
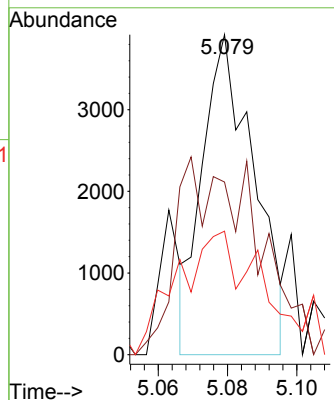
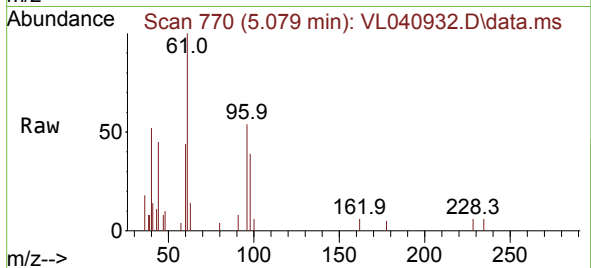




#31
 cis-1,2-Dichloroethene
 Concen: 0.035 ppbv
 RT: 5.079 min Scan# 71
 Delta R.T. 0.016 min
 Lab File: VL040932.D
 Acq: 21 Dec 2023 16:35

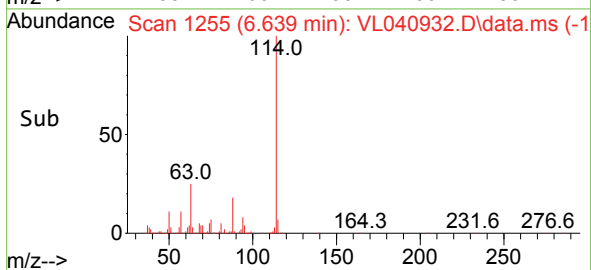
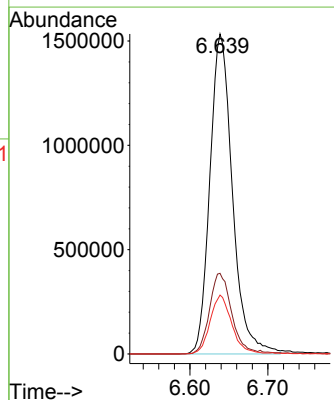
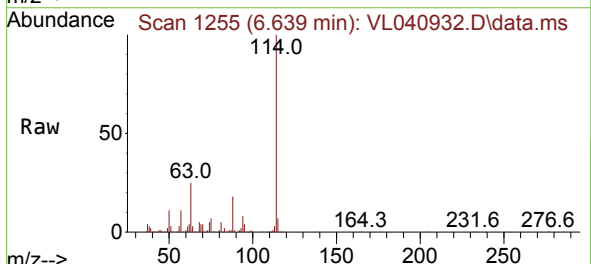
Instrument :
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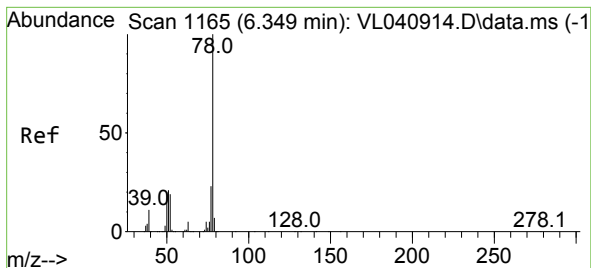
Tgt Ion: 61 Resp: 4038
 Ion Ratio Lower Upper
 61 100
 96 41.1 51.7 77.5#
 98 33.2 33.2 49.8#



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 6.639 min Scan# 1255
 Delta R.T. 0.006 min
 Lab File: VL040932.D
 Acq: 21 Dec 2023 16:35

Tgt Ion: 114 Resp: 3082098
 Ion Ratio Lower Upper
 114 100
 63 25.5 21.0 31.6
 88 17.9 14.3 21.5





#36

Benzene

Concen: 0.041 ppbv

RT: 6.362 min Scan# 1169

Delta R.T. 0.013 min

Lab File: VL040932.D

Acq: 21 Dec 2023 16:35

Instrument :

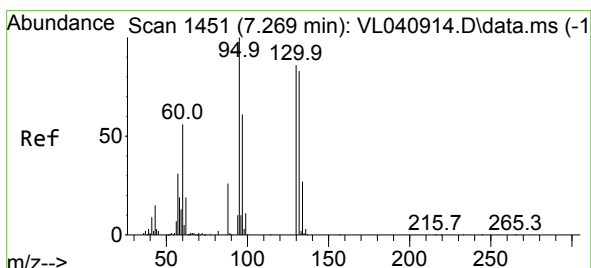
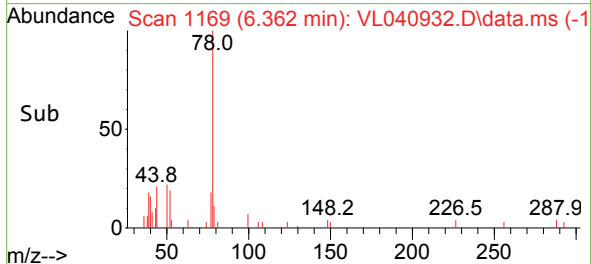
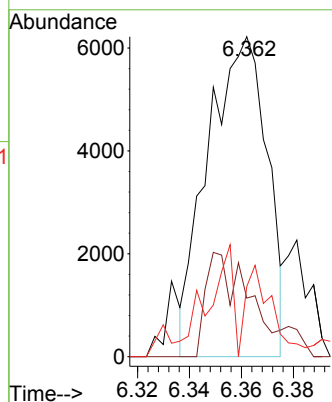
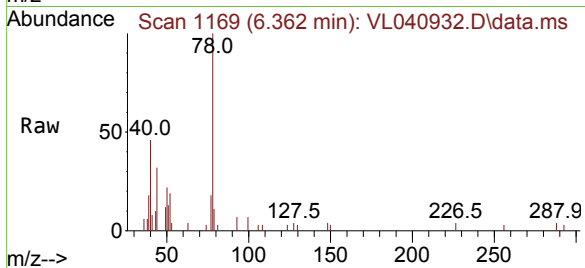
MSVOA_L

ClientSampleId :

VIBLK

Tgt Ion: 78 Resp: 9847

Ion	Ratio	Lower	Upper
78	100		
77	19.1	18.4	27.6
50	17.8	16.0	24.0



#38

Trichloroethene

Concen: 0.049 ppbv

RT: 7.272 min Scan# 1452

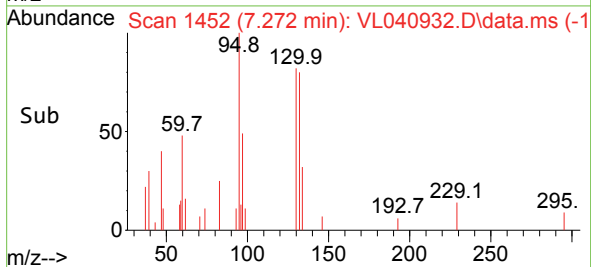
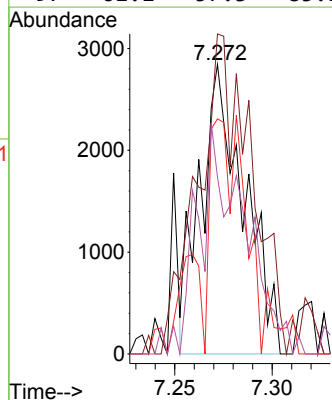
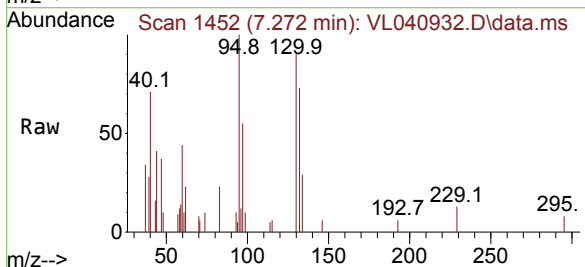
Delta R.T. 0.003 min

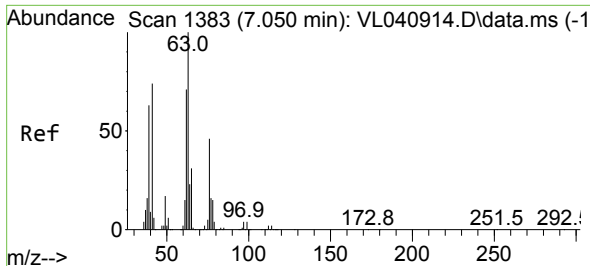
Lab File: VL040932.D

Acq: 21 Dec 2023 16:35

Tgt Ion: 130 Resp: 4472

Ion	Ratio	Lower	Upper
130	100		
95	96.2	93.5	140.3
132	72.4	77.4	116.2#
97	61.1	57.3	85.9





#39

1,2-Dichloropropane

Concen: 8.033 ppbv

RT: 6.639 min Scan# 11

Delta R.T. -0.412 min

Lab File: VL040932.D

Acq: 21 Dec 2023 16:35

Instrument :

MSVOA_L

ClientSampleId :

VIBLK

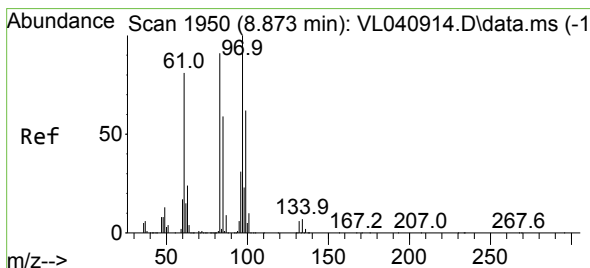
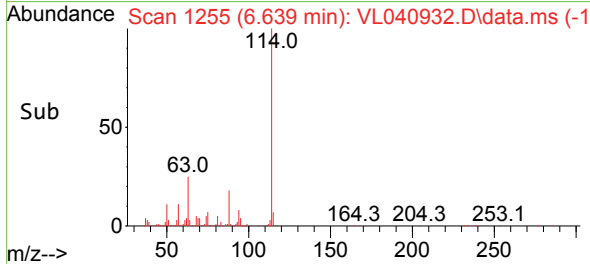
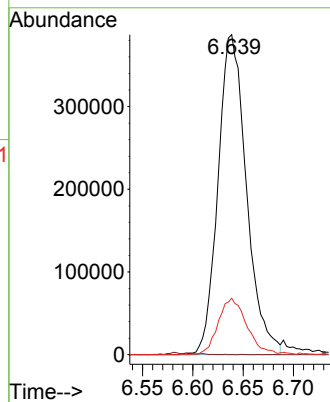
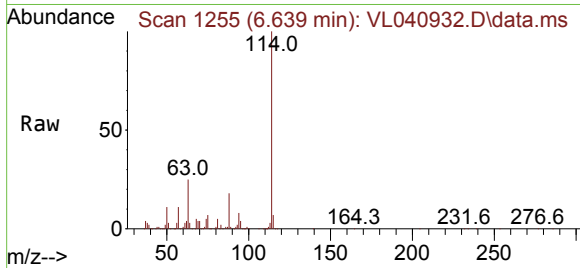
Tgt Ion: 63 Resp: 760535

Ion Ratio Lower Upper

63 100

41 0.0 59.0 88.6#

62 17.7 56.6 85.0#



#47

1,1,2-Trichloroethane

Concen: 0.034 ppbv

RT: 8.883 min Scan# 1953

Delta R.T. 0.010 min

Lab File: VL040932.D

Acq: 21 Dec 2023 16:35

Tgt Ion: 97 Resp: 3372

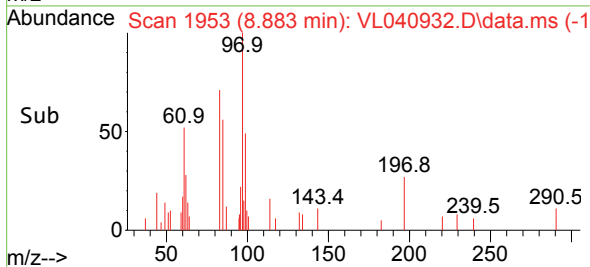
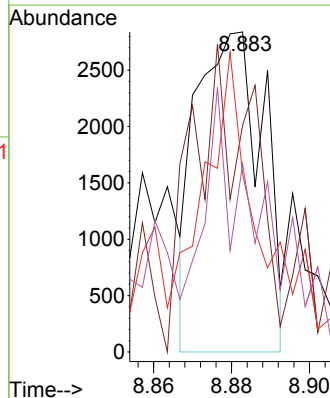
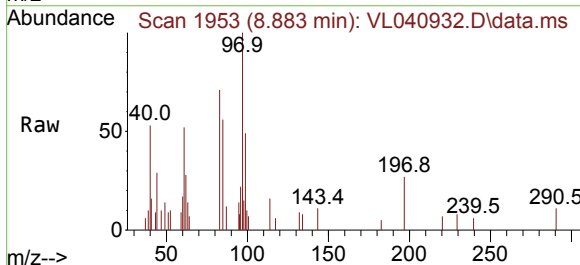
Ion Ratio Lower Upper

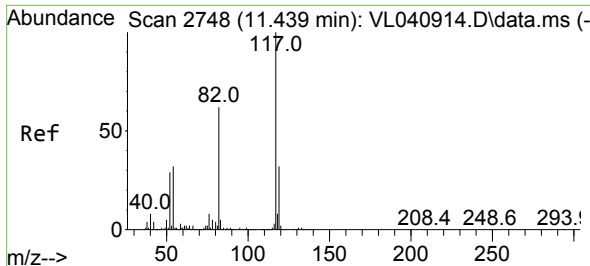
97 100

83 65.7 72.6 108.8#

85 25.7 47.4 71.0#

99 44.4 49.6 74.4#

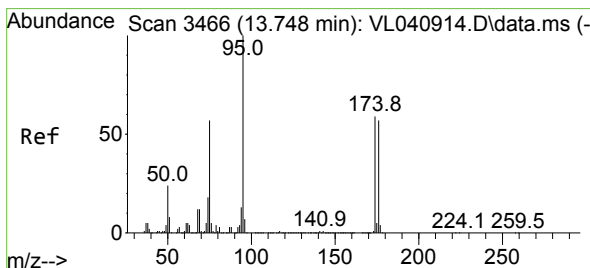
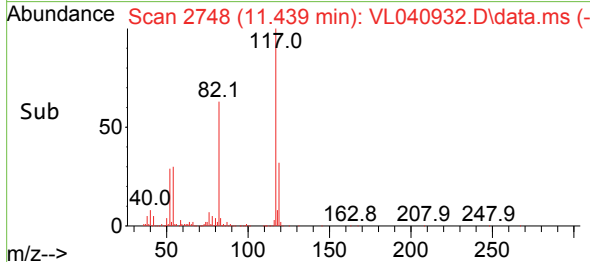
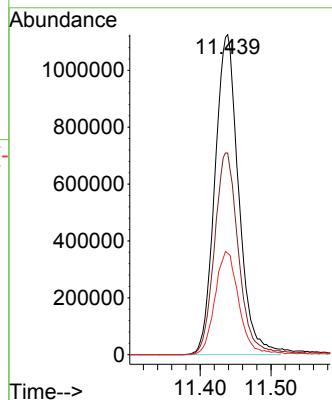
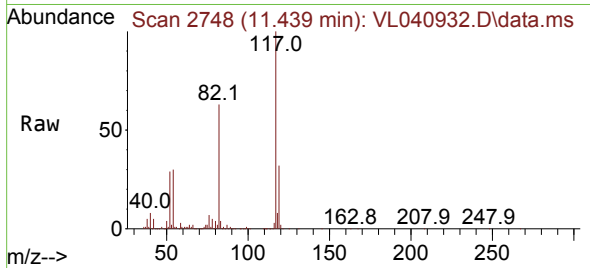




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.439 min Scan# 21
Delta R.T. -0.000 min
Lab File: VL040932.D
Acq: 21 Dec 2023 16:35

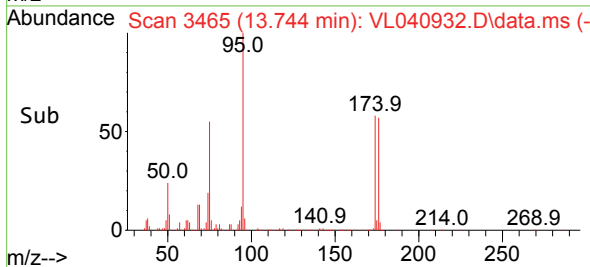
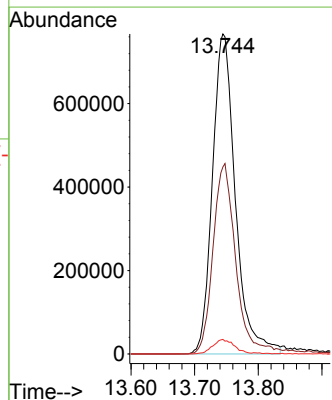
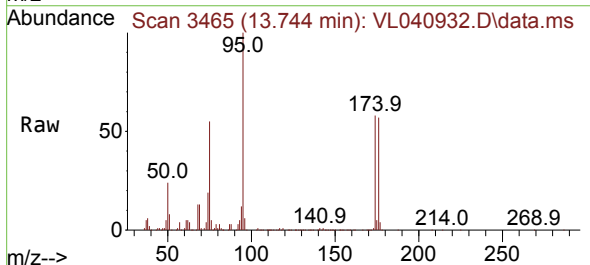
Instrument :
MSVOA_L
ClientSampleId :
VIBLK

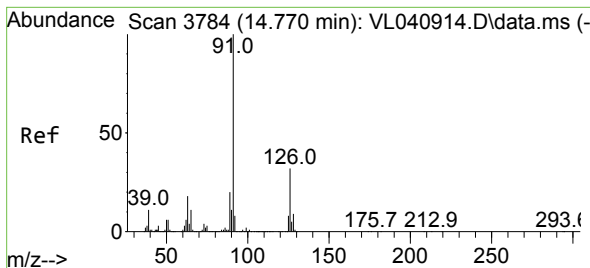
Tgt Ion:117 Resp: 2615848
Ion Ratio Lower Upper
117 100
82 64.5 49.6 74.4
119 32.9 23.4 35.0



#68
1-Bromo-4-Fluorobenzene
Concen: 9.977 ppbv
RT: 13.744 min Scan# 3465
Delta R.T. -0.003 min
Lab File: VL040932.D
Acq: 21 Dec 2023 16:35

Tgt Ion: 95 Resp: 1922364
Ion Ratio Lower Upper
95 100
174 60.5 48.0 72.0
175 4.5 3.7 5.5

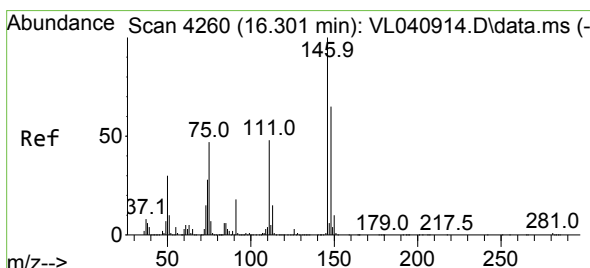
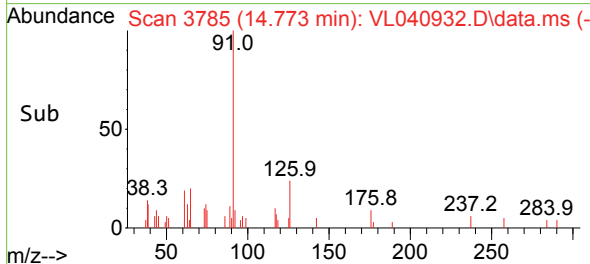
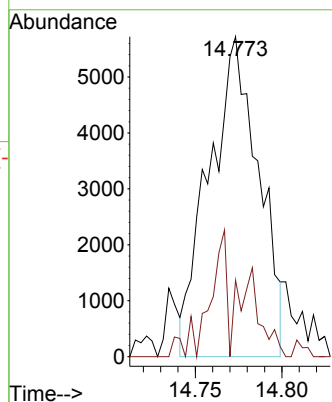
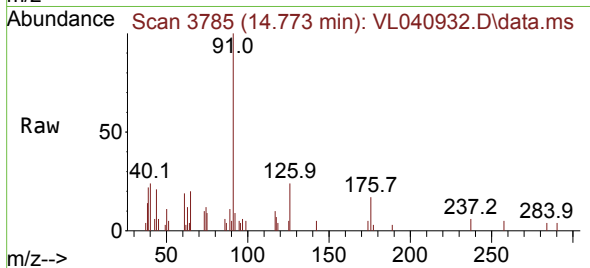




#71
2-Chlorotoluene
Concen: 0.037 ppbv
RT: 14.773 min Scan# 31
Delta R.T. 0.003 min
Lab File: VL040932.D
Acq: 21 Dec 2023 16:35

Instrument :
MSVOA_L
ClientSampleId :
VIBLK

Tgt Ion: 91 Resp: 11373
Ion Ratio Lower Upper
91 100
126 13.9 12.4 49.6



#75
1,3-Dichlorobenzene
Concen: 0.031 ppbv
RT: 16.313 min Scan# 4264
Delta R.T. 0.013 min
Lab File: VL040932.D
Acq: 21 Dec 2023 16:35

Tgt Ion: 146 Resp: 4947
Ion Ratio Lower Upper
146 100
111 0.0 24.7 74.1#
148 98.9 32.1 96.5#

