

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
 Data File : VL040938.D
 Acq On : 21 Dec 2023 20:26
 Operator : SY/MD
 Sample : 05825-04DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 22 00:11:12 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)

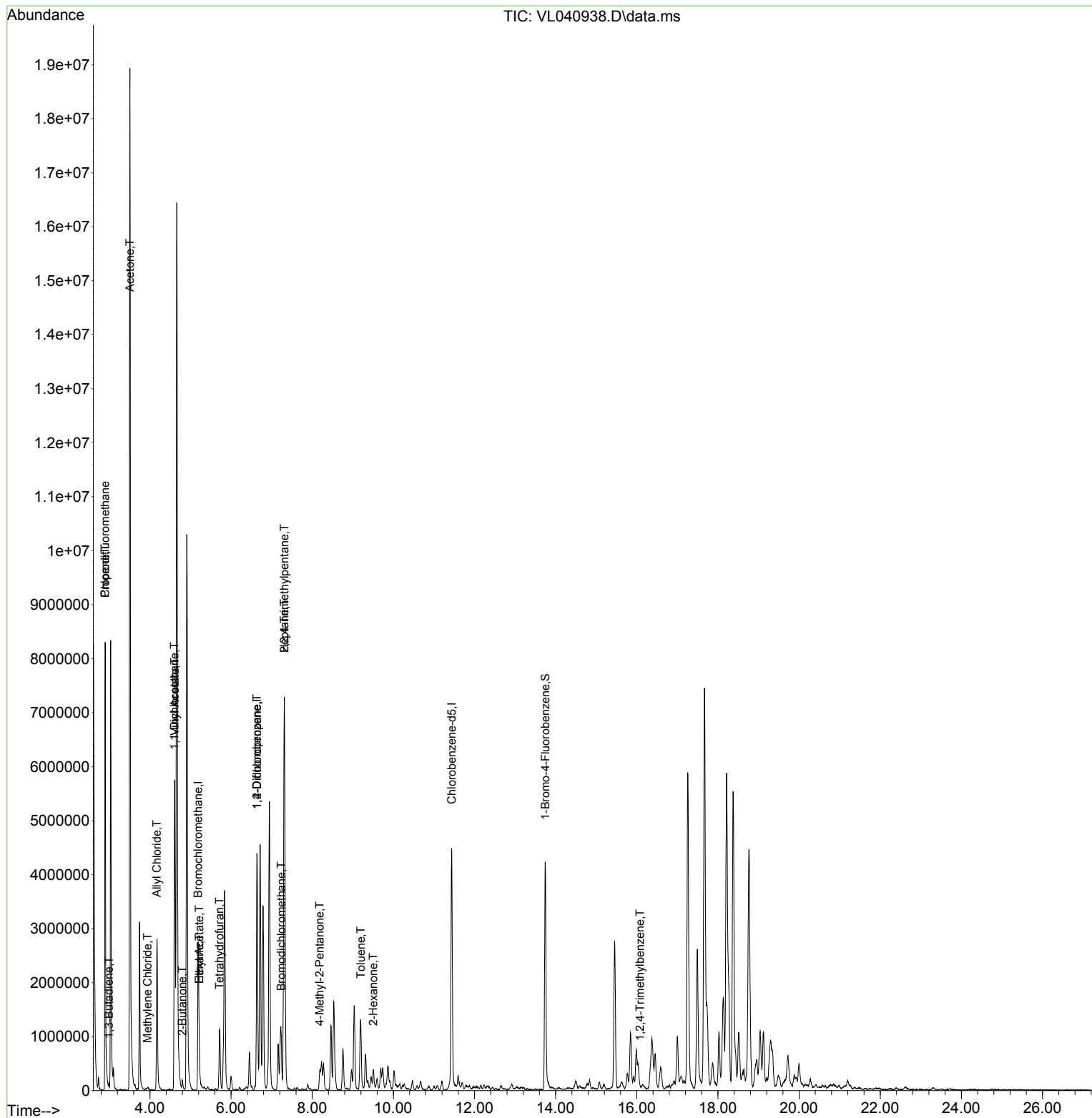
Internal Standards						
1) Bromochloromethane	5.189	49	1339632	10.000	ppbv	0.01
33) 1,4-Difluorobenzene	6.639	114	3477802	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.436	117	3023133	10.000	ppbv	0.00

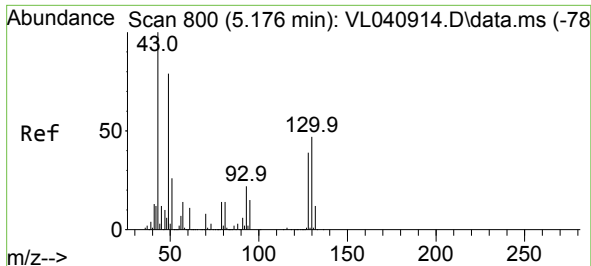
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.745	95	2200545	9.882	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.800%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	2.896	51	49965	0.248	ppbv #	60
9) Propene	2.896	41	2469231	37.122	ppbv	95
10) Heptane	7.314	43	1502934	9.089	ppbv #	1
15) Acetone	3.507	43	6710599	41.767	ppbv #	57
16) 1,3-Butadiene	2.989	39	25835	0.373	ppbv #	9
20) Methylene Chloride	3.944	84	14137	0.247	ppbv	89
21) Allyl Chloride	4.173	41	750099	7.898	ppbv #	53
23) Vinyl Acetate	4.610	43	3350556	18.904	ppbv #	2
24) 1,1-Dichloroethane	4.607	63	5414	0.034	ppbv #	89
25) Ethyl Acetate	5.214	43	178844	0.642	ppbv #	77
26) Hexane	5.214	57	262235	2.125	ppbv #	29
34) 2-Butanone	4.800	43	178012	0.968	ppbv #	90
39) 1,2-Dichloropropane	6.639	63	836710	7.832	ppbv #	23
41) Tetrahydrofuran	5.713	42	7902	0.071	ppbv #	54
42) Bromodichloromethane	7.237	83	85744	0.365	ppbv #	26
44) 2,2,4-Trimethylpentane	7.314	57	7119434	15.416	ppbv	93
50) 4-Methyl-2-Pentanone	8.185	43	20532	0.074	ppbv #	70
51) 2-Hexanone	9.504	43	255360	1.273	ppbv #	49
53) Toluene	9.198	91	35138	0.117	ppbv #	49
74) 1,2,4-Trimethylbenzene	16.079	105	12475	0.038	ppbv #	54

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

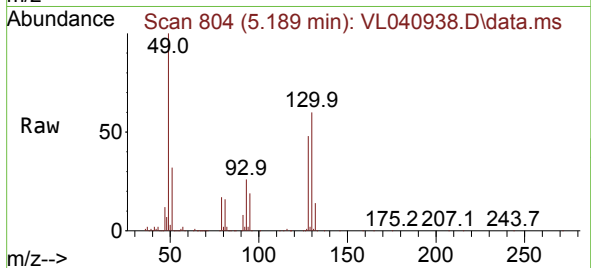
Quant Time: Dec 22 00:11:12 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL122023AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LFri Aug 26 06:05:16 2022
QLast Update : Thu Dec 21 07:32:42 2023
Response via : Initial Calibration



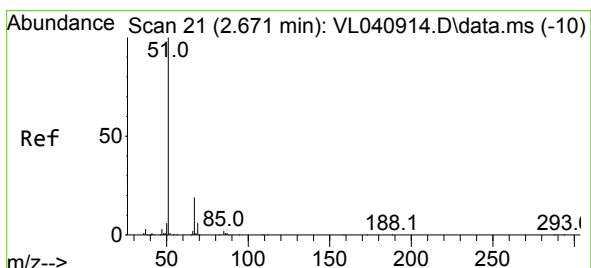
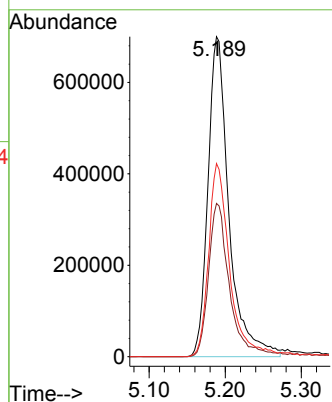
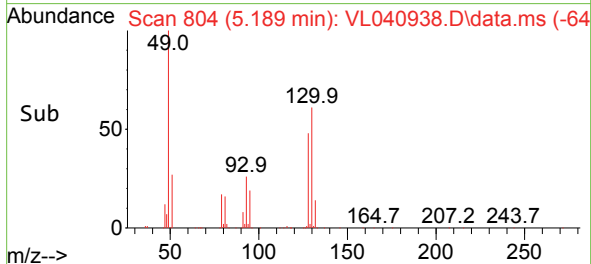


#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.189 min Scan# 80
Delta R.T. 0.013 min
Lab File: VL040938.D
Acq: 21 Dec 2023 20:26

Instrument :
MSVOA_L
ClientSampleId :

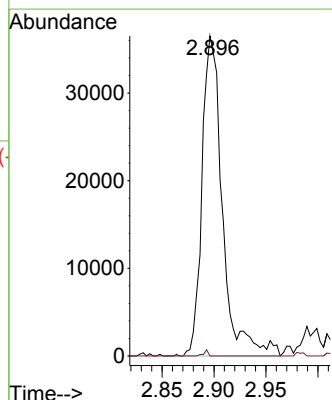
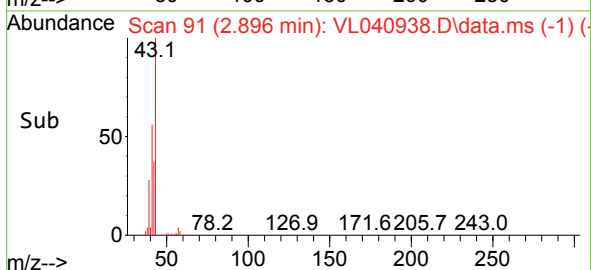
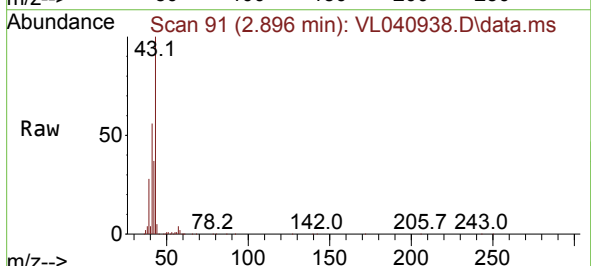


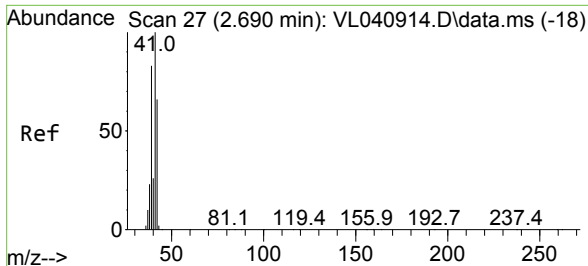
Tgt Ion: 49 Resp: 1339632
Ion Ratio Lower Upper
49 100
128 48.9 23.8 71.2
130 62.9 30.1 90.5



#3
Chlorodifluoromethane
Concen: 0.248 ppbv
RT: 2.896 min Scan# 91
Delta R.T. 0.225 min
Lab File: VL040938.D
Acq: 21 Dec 2023 20:26

Tgt Ion: 51 Resp: 49965
Ion Ratio Lower Upper
51 100
67 0.4 14.7 22.1#

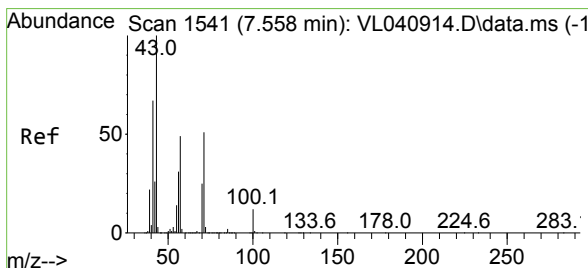
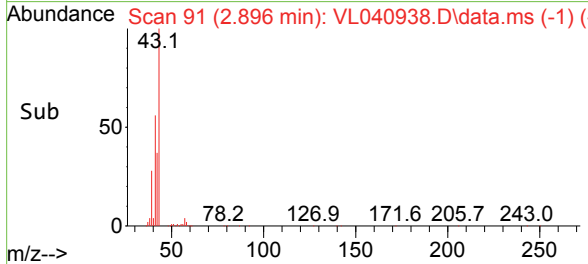
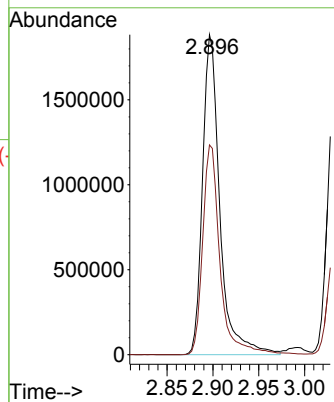
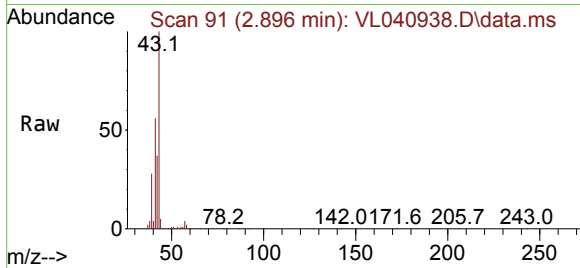




#9
 Propene
 Concen: 37.122 ppbv
 RT: 2.896 min Scan# 91
 Delta R.T. 0.206 min
 Lab File: VL040938.D
 Acq: 21 Dec 2023 20:26

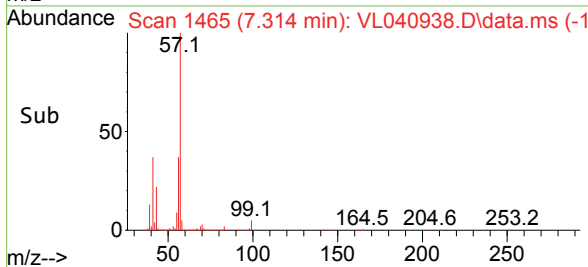
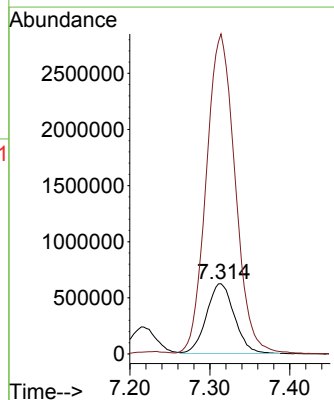
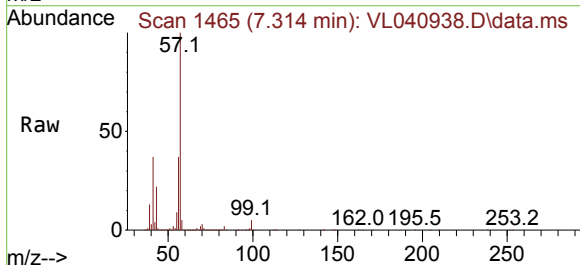
Instrument :
 MSVOA_L
 ClientSampleId :

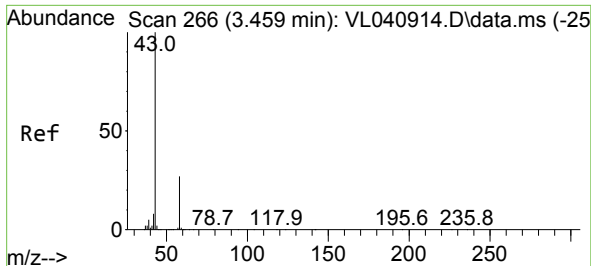
Tgt Ion: 41 Resp: 2469231
 Ion Ratio Lower Upper
 41 100
 42 66.0 55.8 83.6



#10
 Heptane
 Concen: 9.089 ppbv
 RT: 7.314 min Scan# 1465
 Delta R.T. -0.244 min
 Lab File: VL040938.D
 Acq: 21 Dec 2023 20:26

Tgt Ion: 43 Resp: 1502934
 Ion Ratio Lower Upper
 43 100
 57 478.4 39.3 58.9#

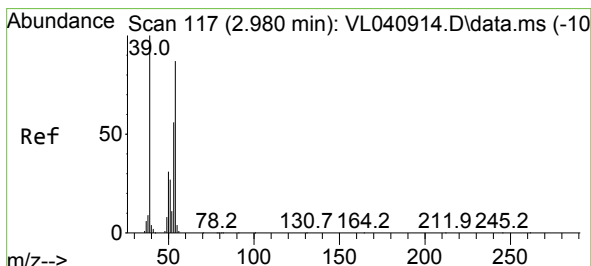
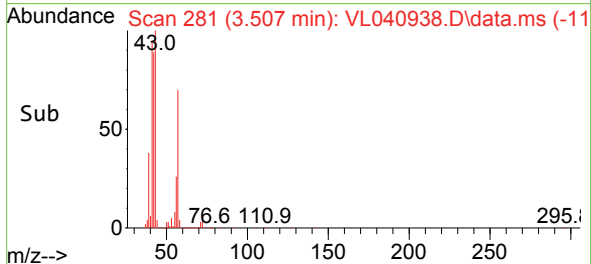
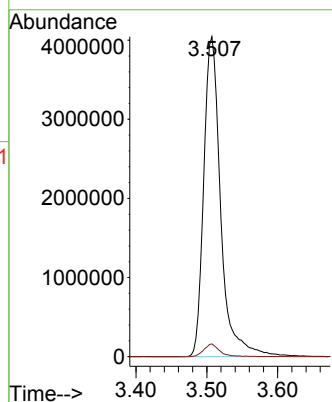
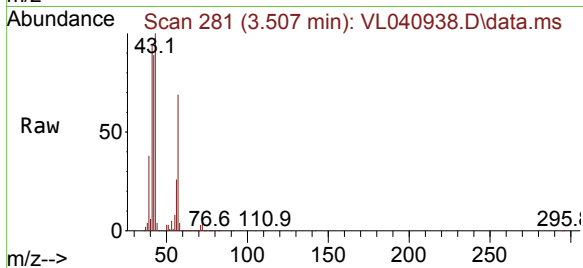




#15
Acetone
Concen: 41.767 ppbv
RT: 3.507 min Scan# 21
Delta R.T. 0.048 min
Lab File: VL040938.D
Acq: 21 Dec 2023 20:26

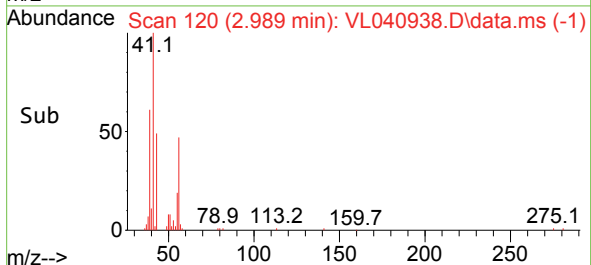
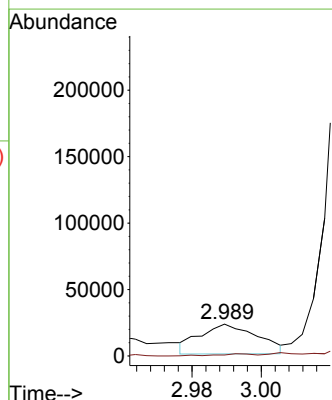
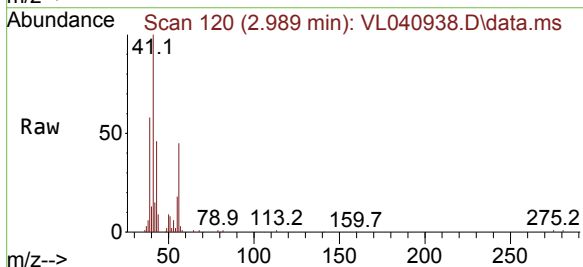
Instrument :
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ClientSampleId :

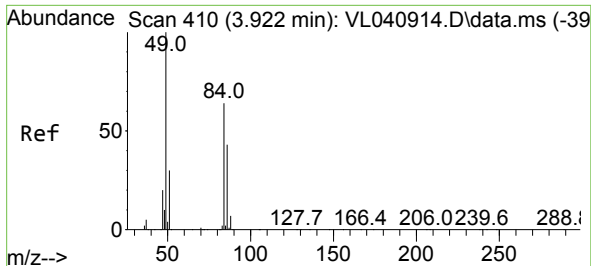
Tgt Ion: 43 Resp: 6710599
Ion Ratio Lower Upper
43 100
58 3.9 20.6 30.8#



#16
1,3-Butadiene
Concen: 0.373 ppbv
RT: 2.989 min Scan# 120
Delta R.T. 0.010 min
Lab File: VL040938.D
Acq: 21 Dec 2023 20:26

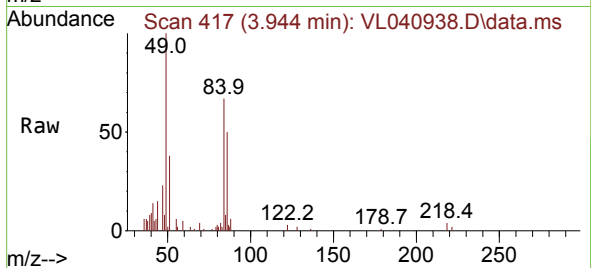
Tgt Ion: 39 Resp: 25835
Ion Ratio Lower Upper
39 100
54 0.0 63.8 95.6#



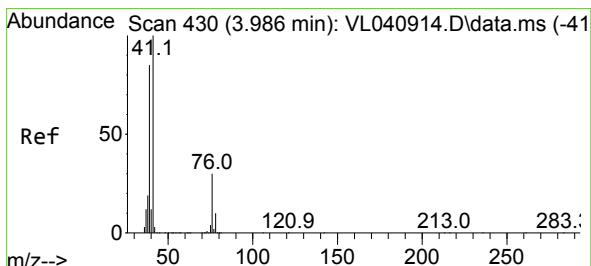
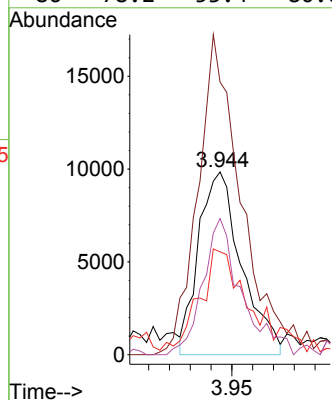
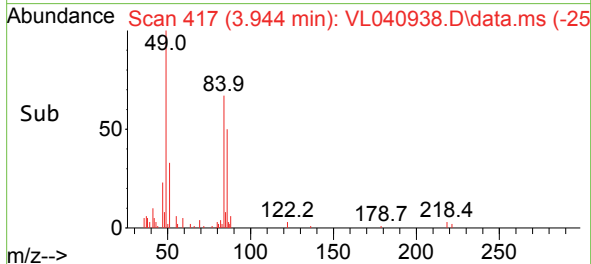


#20
Methylene Chloride
Concen: 0.247 ppbv
RT: 3.944 min Scan# 417
Delta R.T. 0.023 min
Lab File: VL040938.D
Acq: 21 Dec 2023 20:26

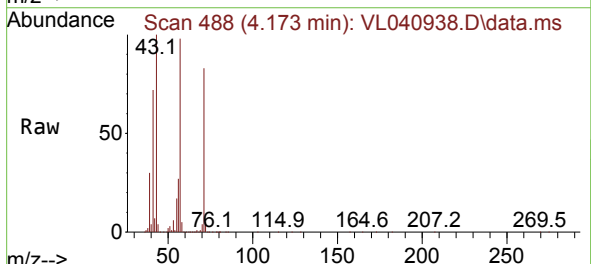
Instrument :
MSVOA_L
ClientSampleId :



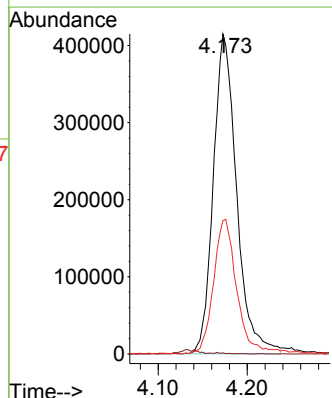
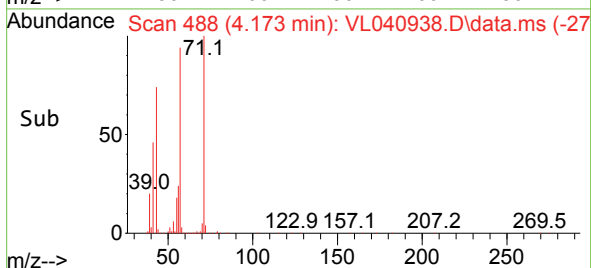
Tgt Ion: 84 Resp: 14137
Ion Ratio Lower Upper
84 100
49 139.0 124.6 187.0
51 47.9 37.2 55.8
86 78.2 53.4 80.0

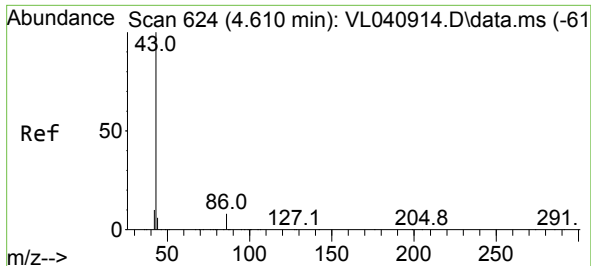


#21
Allyl Chloride
Concen: 7.898 ppbv
RT: 4.173 min Scan# 488
Delta R.T. 0.187 min
Lab File: VL040938.D
Acq: 21 Dec 2023 20:26



Tgt Ion: 41 Resp: 750099
Ion Ratio Lower Upper
41 100
76 1.3 23.9 35.9#
39 42.6 66.5 99.7#

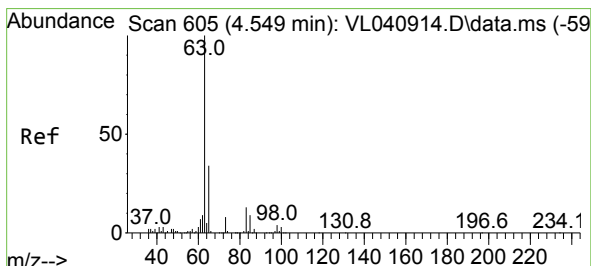
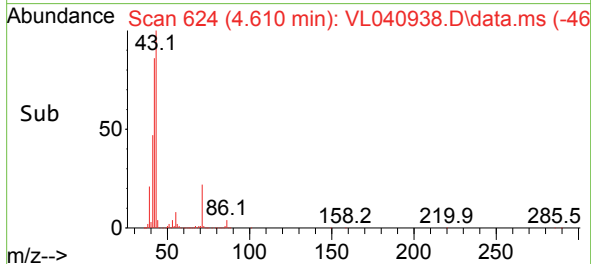
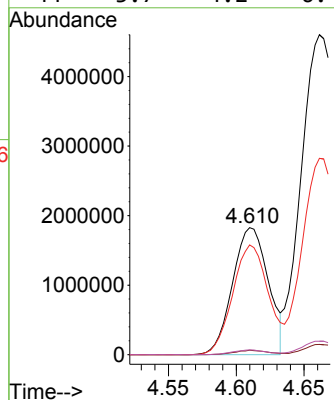
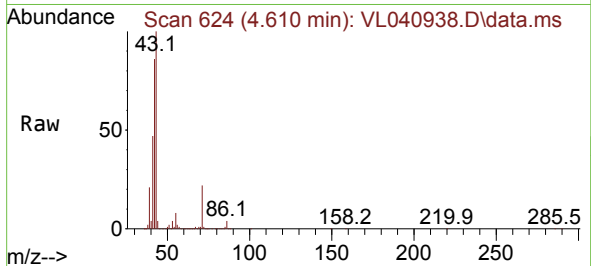




#23
 Vinyl Acetate
 Concen: 18.904 ppbv
 RT: 4.610 min Scan# 61
 Delta R.T. 0.000 min
 Lab File: VL040938.D
 Acq: 21 Dec 2023 20:26

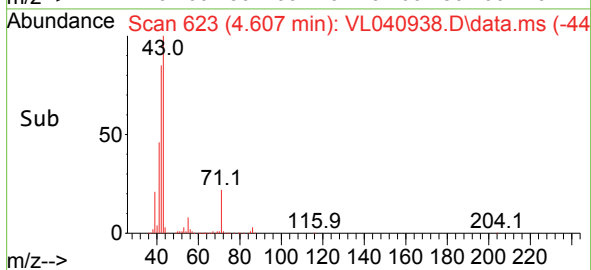
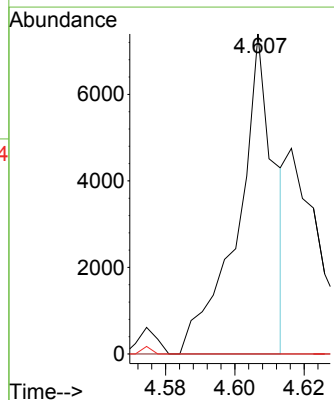
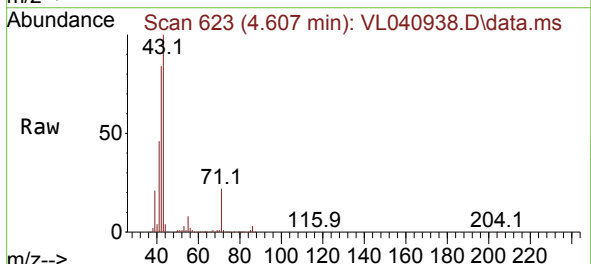
Instrument :
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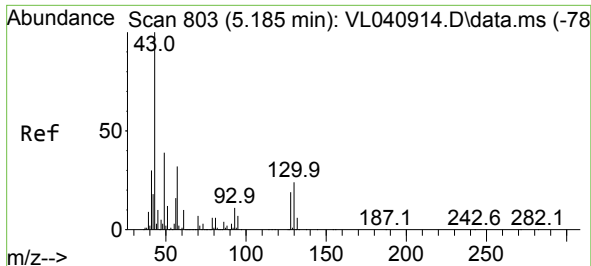
Tgt Ion: 43 Resp: 3350556
 Ion Ratio Lower Upper
 43 100
 86 3.5 5.5 8.3#
 42 86.4 8.4 12.6#
 44 3.7 4.2 6.4#



#24
 1,1-Dichloroethane
 Concen: 0.034 ppbv
 RT: 4.607 min Scan# 623
 Delta R.T. 0.058 min
 Lab File: VL040938.D
 Acq: 21 Dec 2023 20:26

Tgt Ion: 63 Resp: 5414
 Ion Ratio Lower Upper
 63 100
 98 0.0 2.1 6.5#
 100 0.0 1.4 4.2#

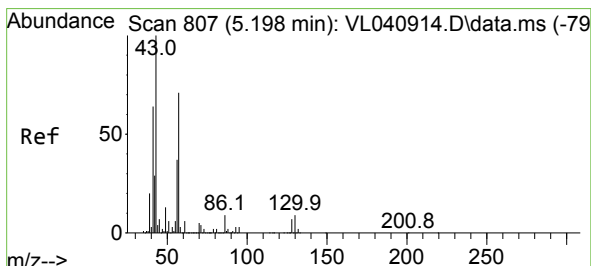
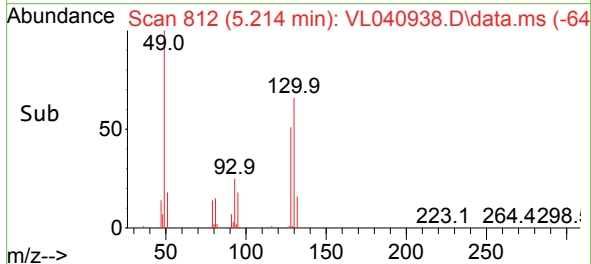
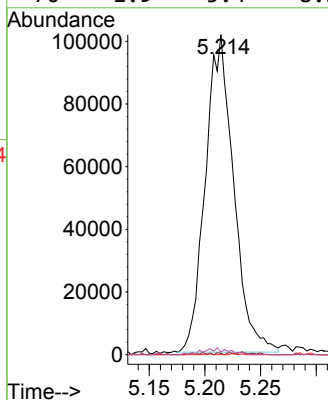
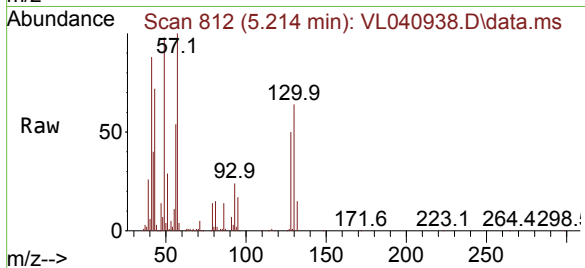




#25
Ethyl Acetate
Concen: 0.642 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.029 min
Lab File: VL040938.D
Acq: 21 Dec 2023 20:26

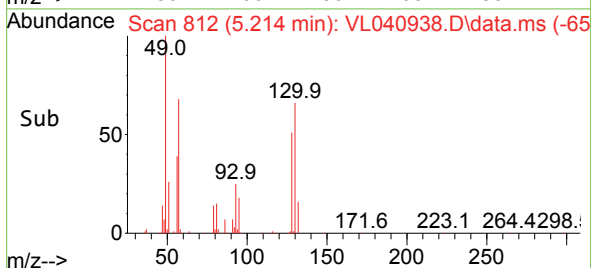
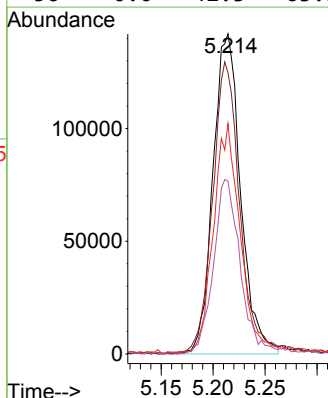
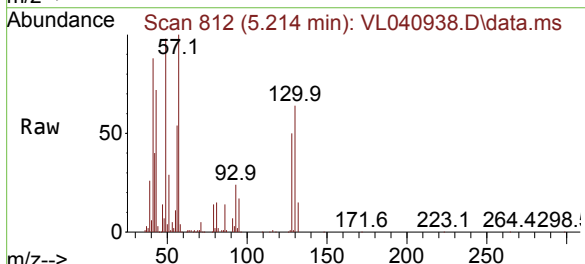
Instrument :
MSVOA_L
ClientSampleId :

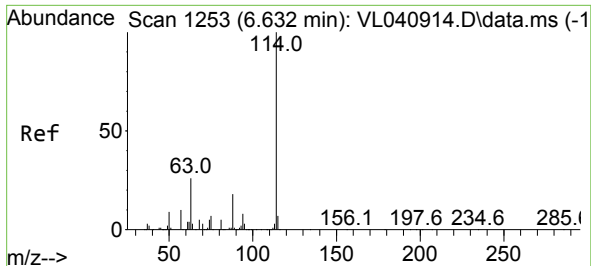
Tgt Ion: 43	Resp: 178844
Ion Ratio	Lower Upper
43 100	
45 0.4	8.2 12.2#
61 0.0	7.6 11.4#
70 1.9	5.4 8.2#



#26
Hexane
Concen: 2.125 ppbv
RT: 5.214 min Scan# 812
Delta R.T. 0.016 min
Lab File: VL040938.D
Acq: 21 Dec 2023 20:26

Tgt	Ion: 57	Resp:	262235
Ion	Ratio	Lower	Upper
57	100		
41	90.6	75.2	112.8
43	72.7	188.0	282.0#
56	0.0	42.3	63.5#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 11

Delta R.T. 0.007 min

Lab File: VL040938.D

Acq: 21 Dec 2023 20:26

Instrument :

MSVOA_L

ClientSampleId :

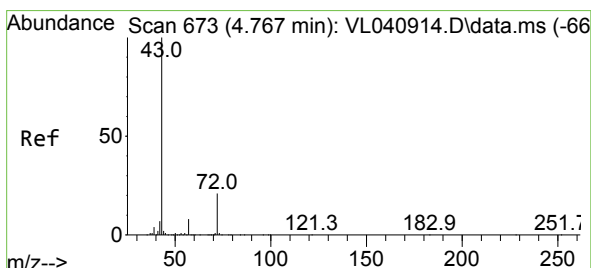
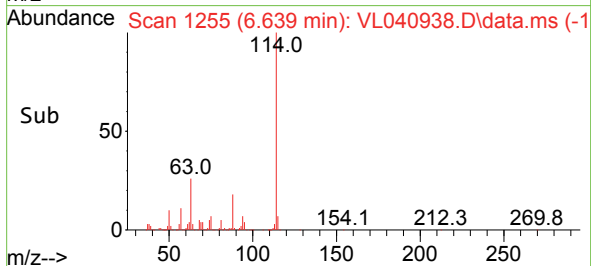
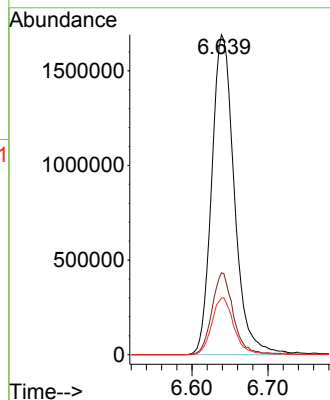
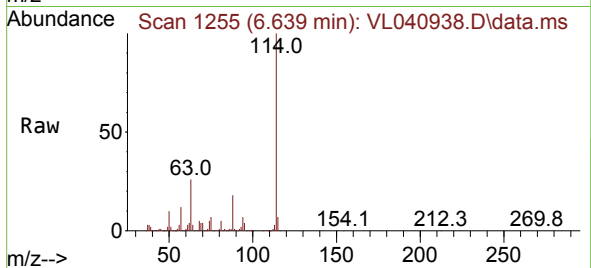
Tgt Ion:114 Resp: 3477802

Ion Ratio Lower Upper

114 100

63 24.7 21.0 31.6

88 17.6 14.3 21.5



#34

2-Butanone

Concen: 0.968 ppbv

RT: 4.800 min Scan# 683

Delta R.T. 0.032 min

Lab File: VL040938.D

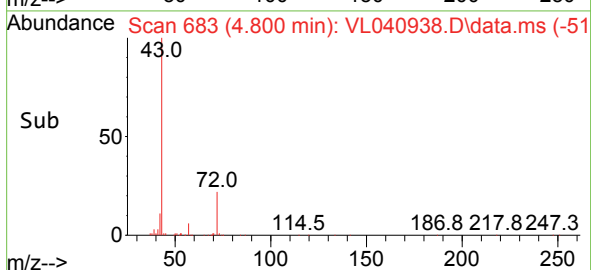
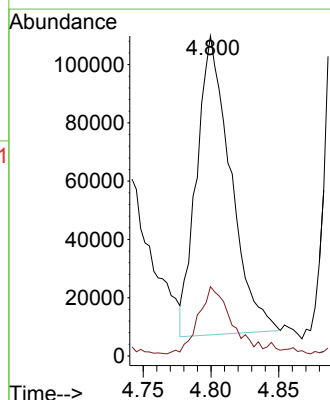
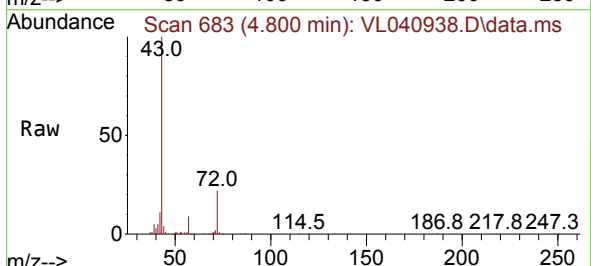
Acq: 21 Dec 2023 20:26

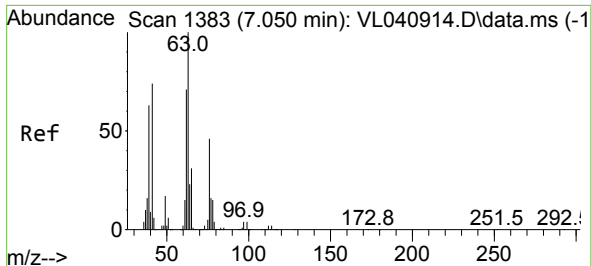
Tgt Ion: 43 Resp: 178012

Ion Ratio Lower Upper

43 100

72 26.4 17.2 25.8#





#39

1,2-Dichloropropane

Concen: 7.832 ppbv

RT: 6.639 min Scan# 1

Delta R.T. -0.411 min

Lab File: VL040938.D

Acq: 21 Dec 2023 20:26

Instrument :

MSVOA_L

ClientSampleId :

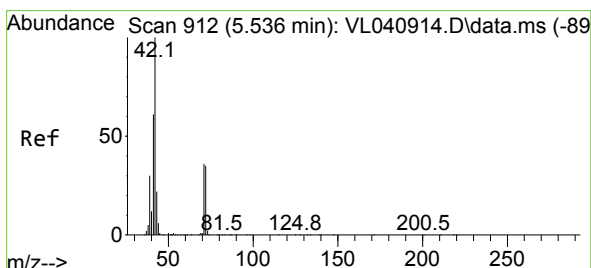
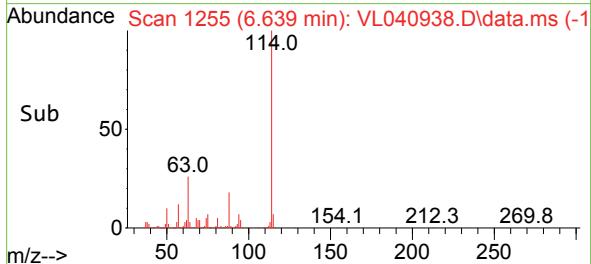
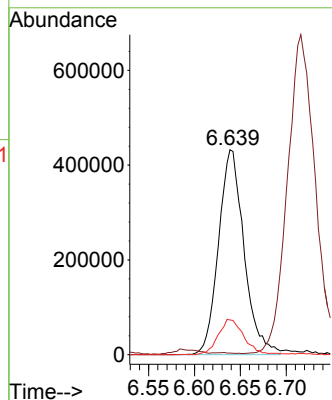
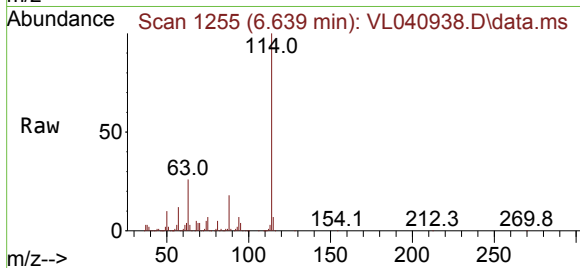
Tgt Ion: 63 Resp: 836710

Ion Ratio Lower Upper

63 100

41 0.0 59.0 88.6#

62 16.9 56.6 85.0#



#41

Tetrahydrofuran

Concen: 0.071 ppbv

RT: 5.713 min Scan# 967

Delta R.T. 0.177 min

Lab File: VL040938.D

Acq: 21 Dec 2023 20:26

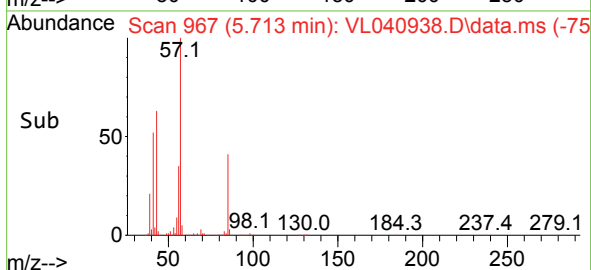
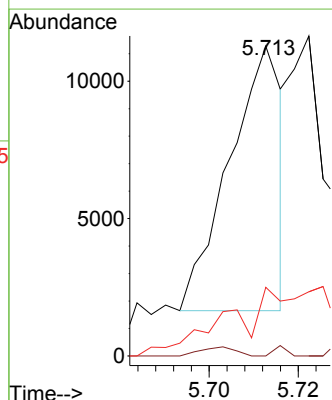
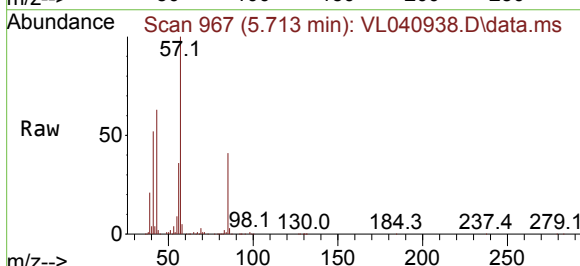
Tgt Ion: 42 Resp: 7902

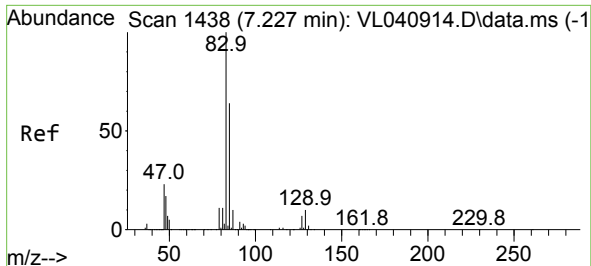
Ion Ratio Lower Upper

42 100

72 4.4 29.6 44.4#

71 57.8 29.1 43.7#

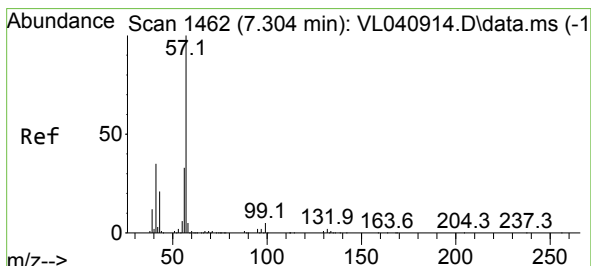
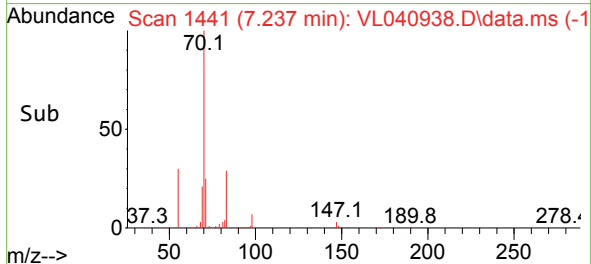
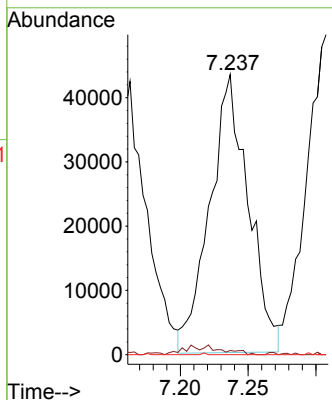
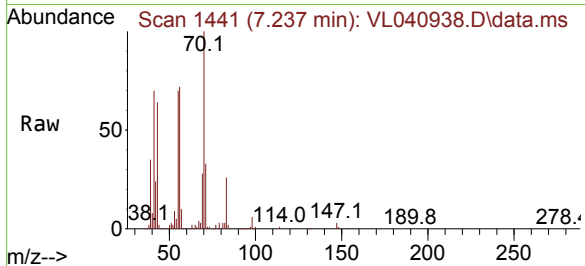




#42
Bromodichloromethane
Concen: 0.365 ppbv
RT: 7.237 min Scan# 1438
Delta R.T. 0.010 min
Lab File: VL040938.D
Acq: 21 Dec 2023 20:26

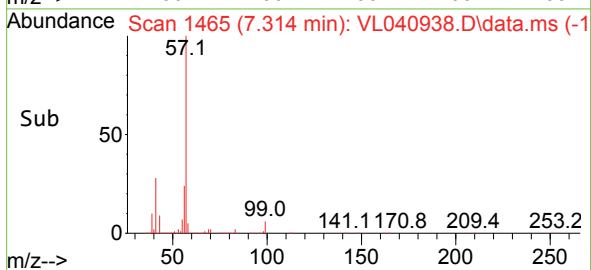
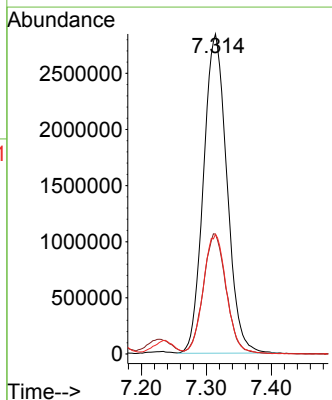
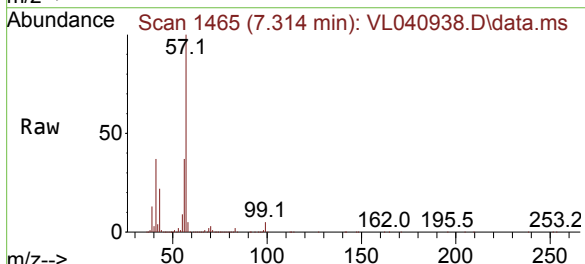
Instrument :
MSVOA_L
ClientSampleId :

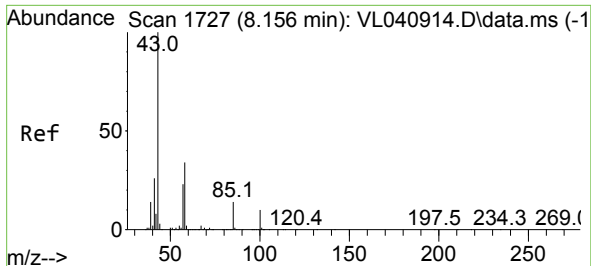
Tgt Ion: 83 Resp: 85744
Ion Ratio Lower Upper
83 100
85 1.6 51.4 77.0#
127 0.0 5.9 8.9#



#44
2,2,4-Trimethylpentane
Concen: 15.416 ppbv
RT: 7.314 min Scan# 1465
Delta R.T. 0.010 min
Lab File: VL040938.D
Acq: 21 Dec 2023 20:26

Tgt Ion: 57 Resp: 7119434
Ion Ratio Lower Upper
57 100
41 37.3 28.2 42.4
56 37.5 25.3 37.9

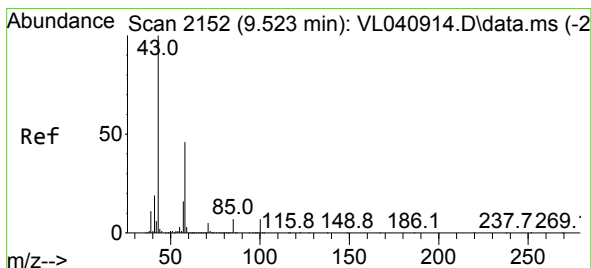
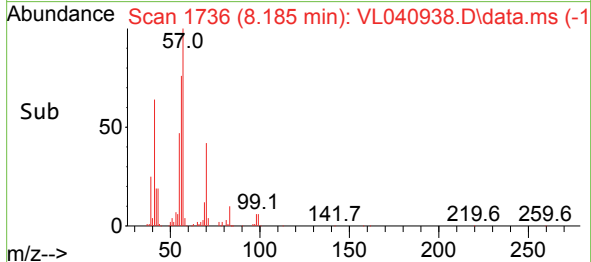
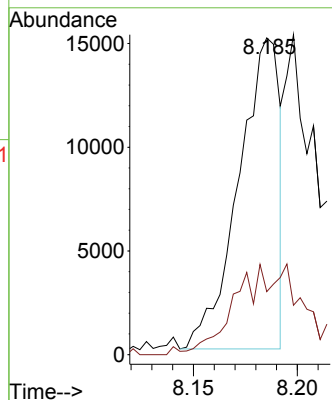
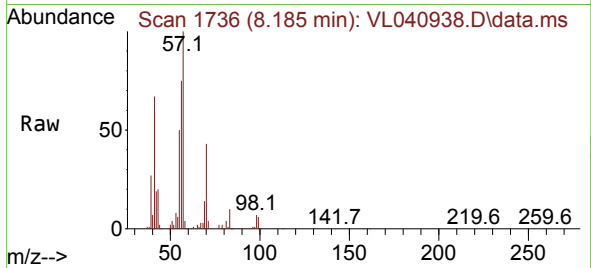




#50
4-Methyl-2-Pentanone
Concen: 0.074 ppbv
RT: 8.185 min Scan# 11
Delta R.T. 0.029 min
Lab File: VL040938.D
Acq: 21 Dec 2023 20:26

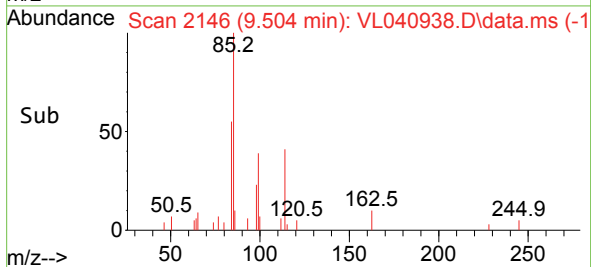
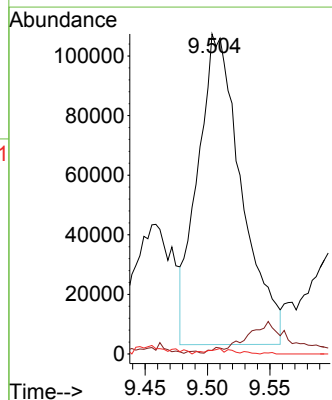
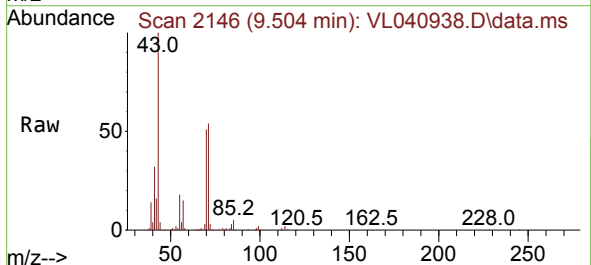
Instrument :
MSVOA_L
ClientSampleId :

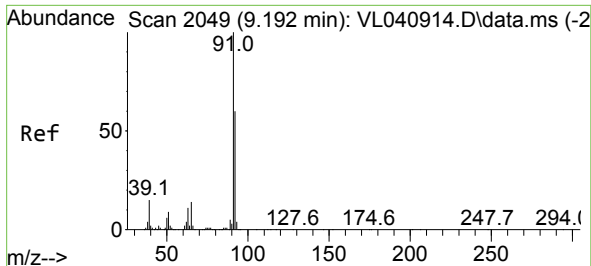
Tgt Ion: 43 Resp: 20532
Ion Ratio Lower Upper
43 100
58 51.4 27.4 41.0#



#51
2-Hexanone
Concen: 1.273 ppbv
RT: 9.504 min Scan# 2146
Delta R.T. -0.019 min
Lab File: VL040938.D
Acq: 21 Dec 2023 20:26

Tgt Ion: 43 Resp: 255360
Ion Ratio Lower Upper
43 100
58 12.3 37.3 55.9#
98 0.0 0.2 0.2#

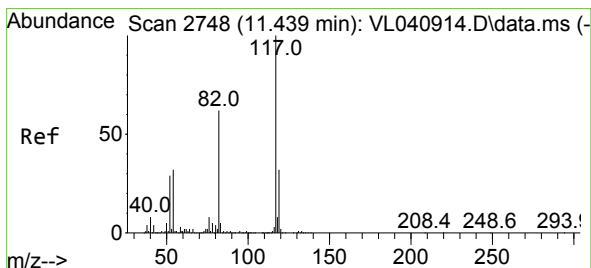
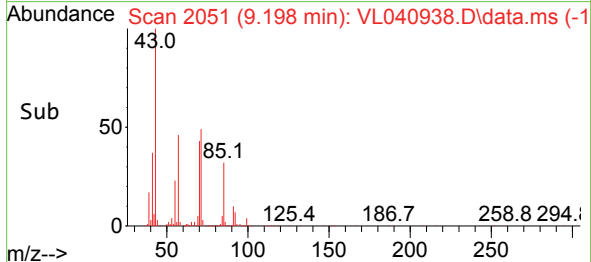
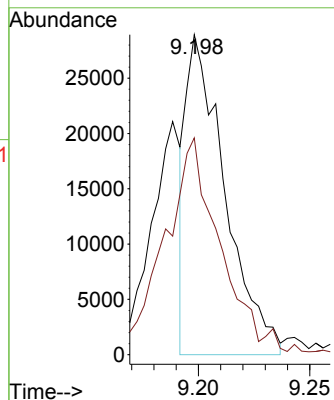
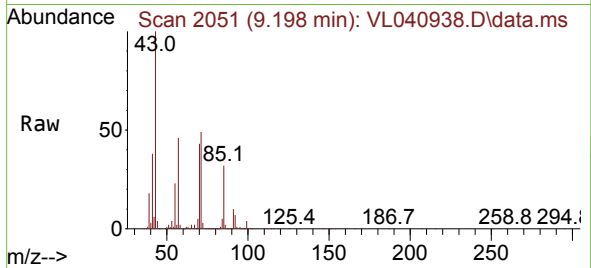




#53
Toluene
Concen: 0.117 ppbv
RT: 9.198 min Scan# 2049
Delta R.T. 0.007 min
Lab File: VL040938.D
Acq: 21 Dec 2023 20:26

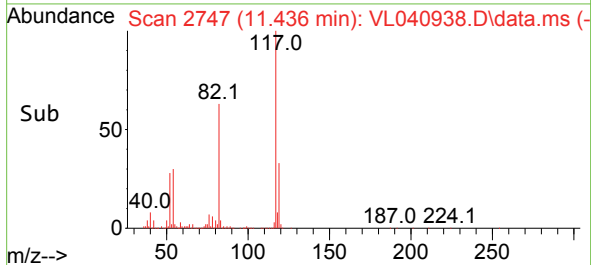
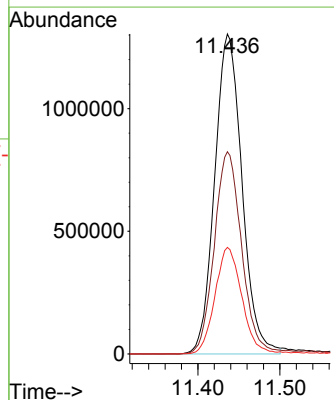
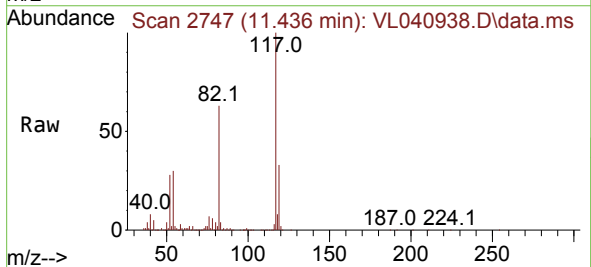
Instrument :
MSVOA_L
ClientSampleId :

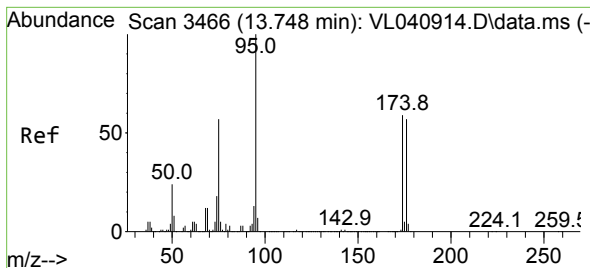
Tgt Ion: 91 Resp: 35138
Ion Ratio Lower Upper
91 100
92 100.5 49.2 73.8#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.436 min Scan# 2747
Delta R.T. -0.003 min
Lab File: VL040938.D
Acq: 21 Dec 2023 20:26

Tgt Ion: 117 Resp: 3023133
Ion Ratio Lower Upper
117 100
82 64.6 49.6 74.4
119 33.2 23.4 35.0

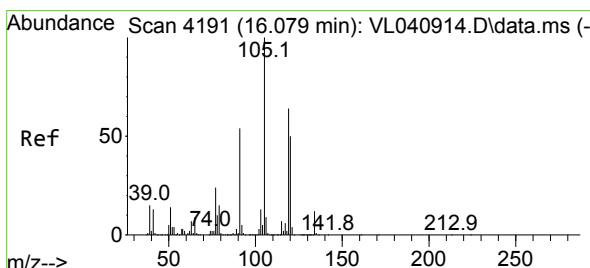
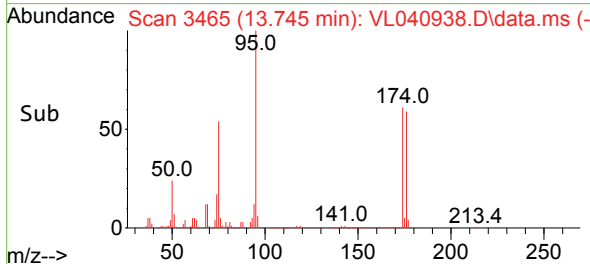
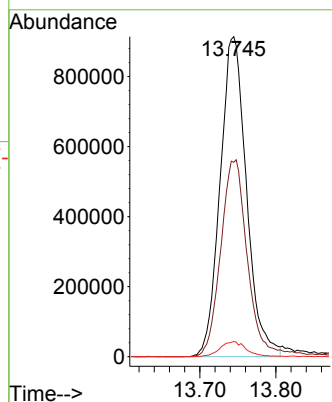
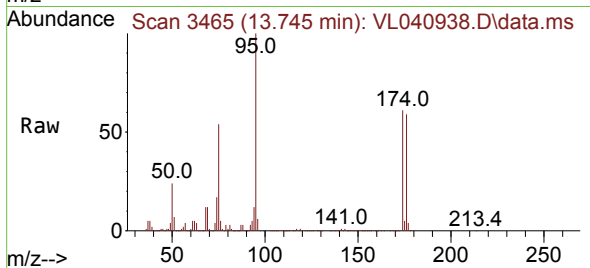




#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.882 ppbv
 RT: 13.745 min Scan# 3466
 Delta R.T. -0.003 min
 Lab File: VL040938.D
 Acq: 21 Dec 2023 20:26

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion: 95 Resp: 2200545
 Ion Ratio Lower Upper
 95 100
 174 63.3 48.0 72.0
 175 4.7 3.7 5.5



#74
 1,2,4-Trimethylbenzene
 Concen: 0.038 ppbv
 RT: 16.079 min Scan# 4191
 Delta R.T. 0.000 min
 Lab File: VL040938.D
 Acq: 21 Dec 2023 20:26

Tgt Ion: 105 Resp: 12475
 Ion Ratio Lower Upper
 105 100
 120 19.0 40.2 60.4#
 91 10.9 43.0 64.6#
 77 15.5 18.9 28.3#

