

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
 Data File : VL040942.D
 Acq On : 21 Dec 2023 22:56
 Operator : SY/MD
 Sample : 05848-02 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 22 00:12:48 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	5.185	49	1209845	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.635	114	3293791	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.433	117	2898867	10.000	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.741	95	2149969	10.069	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.700%

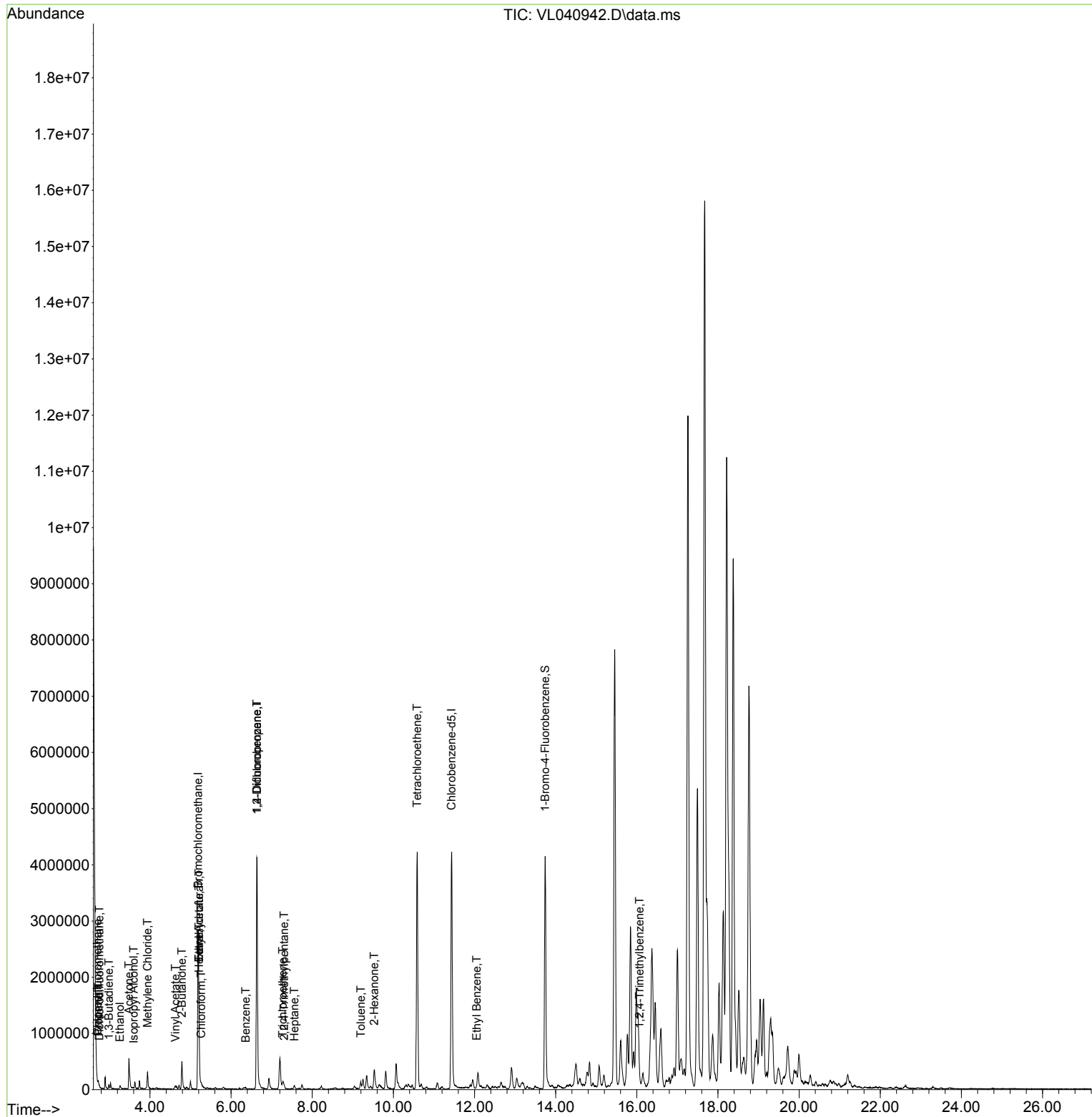
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.751	85	26565	0.115	ppbv	99
3) Chlorodifluoromethane	2.703	51	18774	0.103	ppbv #	84
9) Propene	2.729	41	18239	0.304	ppbv #	68
10) Heptane	7.561	43	21381	0.143	ppbv #	59
13) Ethanol	3.259	45	29597	1.953	ppbv #	27
15) Acetone	3.484	43	573504	3.952	ppbv	92
16) 1,3-Butadiene	2.989	39	18702	0.299	ppbv #	9
19) Isopropyl Alcohol	3.600	45	8203	0.108	ppbv #	95
20) Methylene Chloride	3.941	84	95959	1.855	ppbv	92
23) Vinyl Acetate	4.629	43	14174	0.089	ppbv #	84
25) Ethyl Acetate	5.208	43	226601	0.901	ppbv #	80
26) Hexane	5.211	57	316649	2.842	ppbv #	36
29) Chloroform	5.266	83	21766	0.116	ppbv	91
34) 2-Butanone	4.790	43	596604	3.424	ppbv	97
36) Benzene	6.359	78	20648	0.080	ppbv #	73
38) Trichloroethene	7.272	130	11158	0.115	ppbv #	80
39) 1,2-Dichloropropane	6.639	63	783355	7.742	ppbv #	24
41) Tetrahydrofuran	5.208	42	133646	1.261	ppbv #	50
44) 2,2,4-Trimethylpentane	7.307	57	15006	0.034	ppbv #	41
51) 2-Hexanone	9.529	43	328230	1.728	ppbv #	97
52) Tetrachloroethene	10.587	164	1067601	12.308	ppbv	97
53) Toluene	9.195	91	78608	0.275	ppbv	96
58) Ethyl Benzene	12.053	91	13740	0.037	ppbv	99
74) 1,2,4-Trimethylbenzene	16.069	105	19383	0.062	ppbv #	61

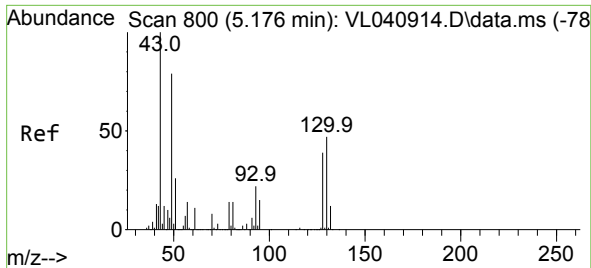
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 22 00:12:48 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

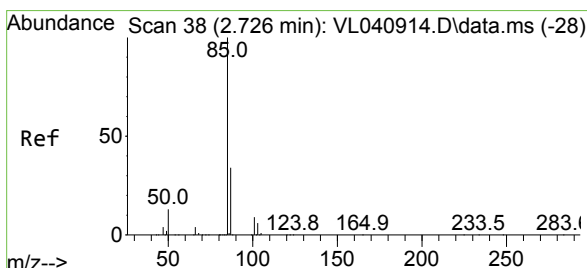
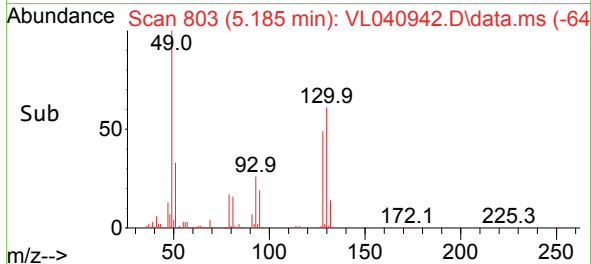
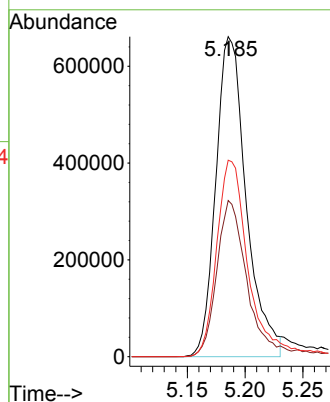
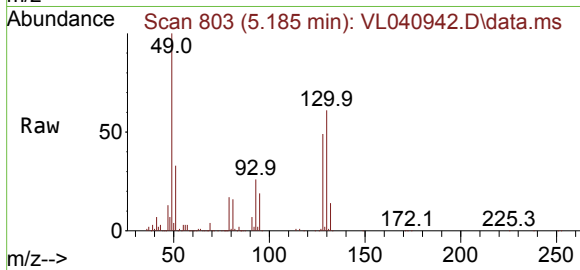




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.185 min Scan# 80
Delta R.T. 0.009 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

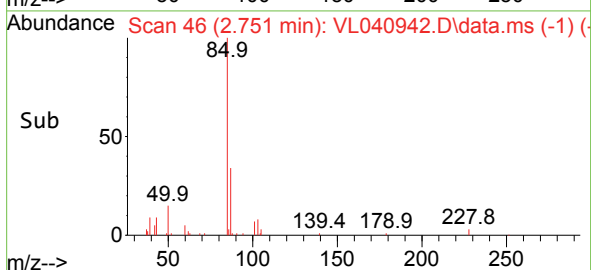
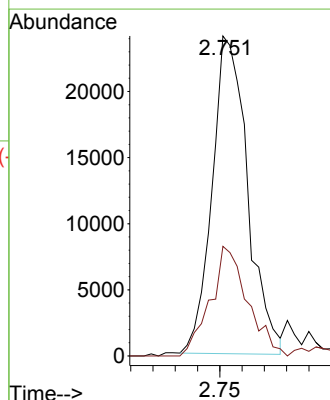
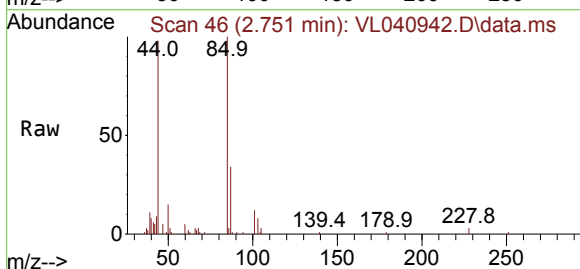
Instrument :
MSVOA_L
ClientSampleId :

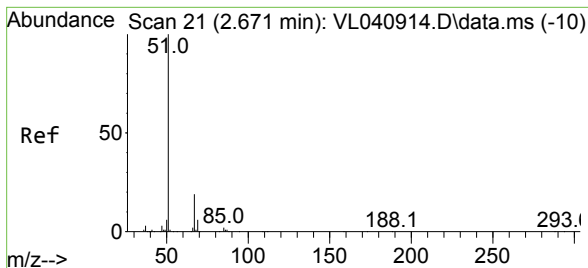
Tgt Ion: 49 Resp: 1209845
Ion Ratio Lower Upper
49 100
128 51.1 23.8 71.2
130 65.9 30.1 90.5



#2
Dichlorodifluoromethane
Concen: 0.115 ppbv
RT: 2.751 min Scan# 46
Delta R.T. 0.026 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

Tgt Ion: 85 Resp: 26565
Ion Ratio Lower Upper
85 100
87 34.6 27.0 40.6

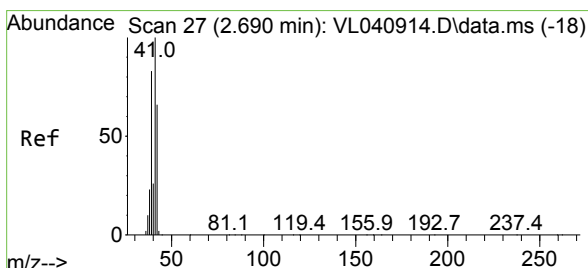
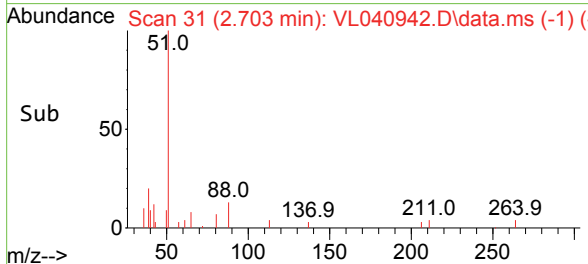
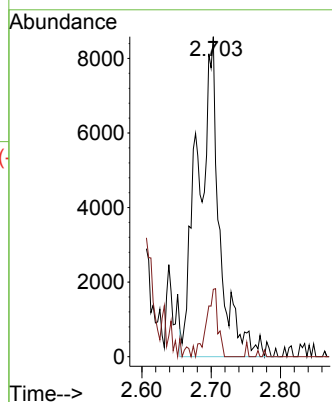
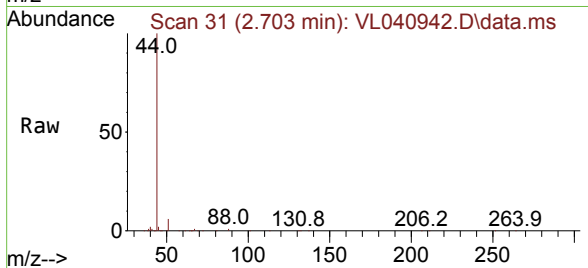




#3
Chlorodifluoromethane
Concen: 0.103 ppbv
RT: 2.703 min Scan# 31
Delta R.T. 0.032 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

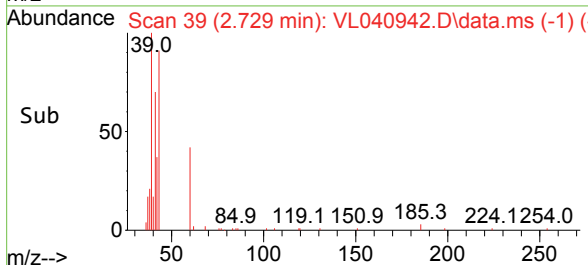
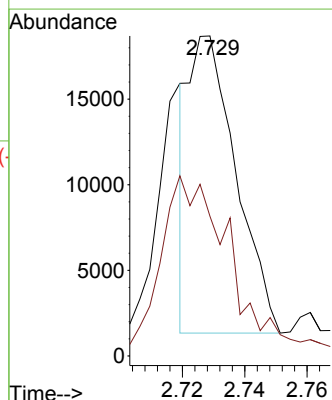
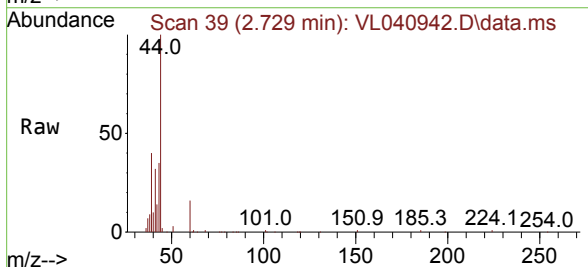
Instrument :
MSVOA_L
ClientSampleId :

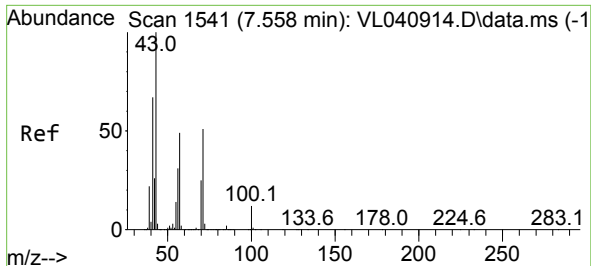
Tgt Ion: 51 Resp: 18774
Ion Ratio Lower Upper
51 100
67 11.4 14.7 22.1#



#9
Propene
Concen: 0.304 ppbv
RT: 2.729 min Scan# 39
Delta R.T. 0.039 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

Tgt Ion: 41 Resp: 18239
Ion Ratio Lower Upper
41 100
42 95.9 55.8 83.6#

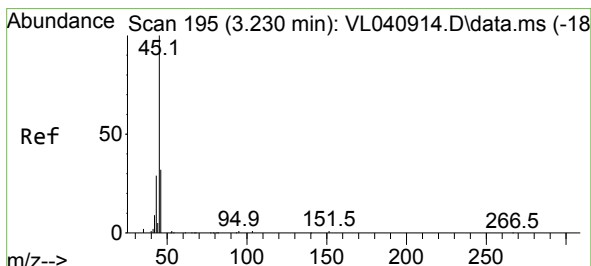
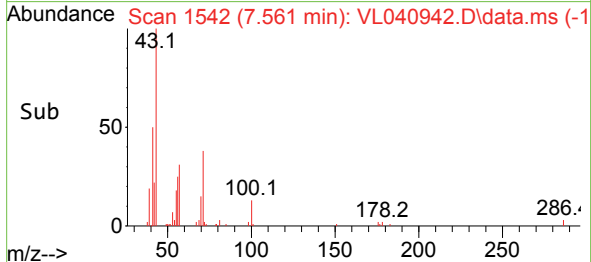
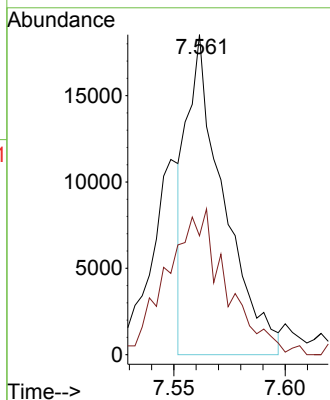
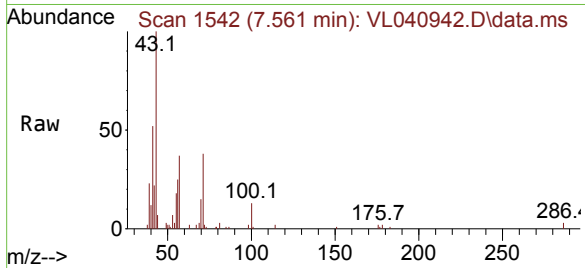




#10
Heptane
Concen: 0.143 ppbv
RT: 7.561 min Scan# 11
Delta R.T. 0.003 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

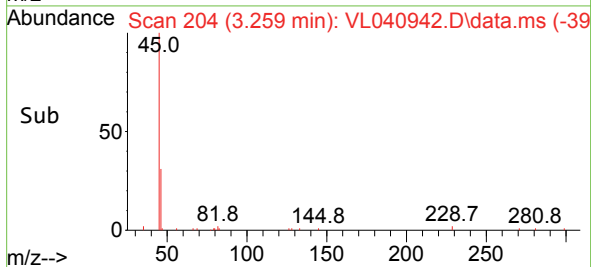
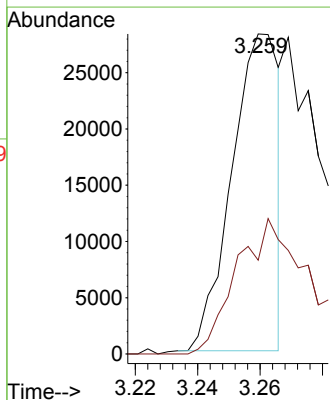
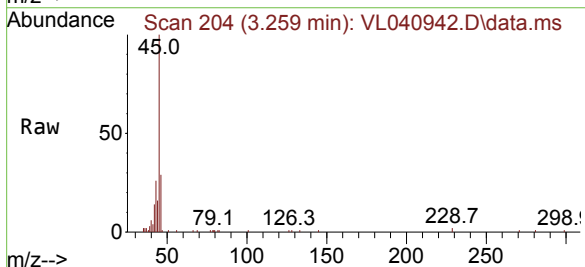
Instrument :
MSVOA_L
ClientSampleId :

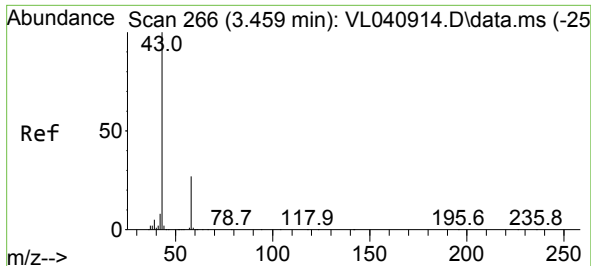
Tgt Ion: 43 Resp: 21381
Ion Ratio Lower Upper
43 100
57 76.9 39.3 58.9#



#13
Ethanol
Concen: 1.953 ppbv
RT: 3.259 min Scan# 204
Delta R.T. 0.029 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

Tgt Ion: 45 Resp: 29597
Ion Ratio Lower Upper
45 100
46 81.1 15.0 60.0#

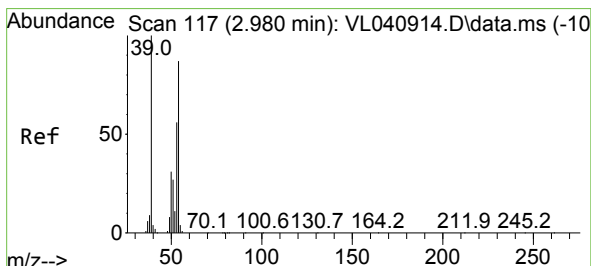
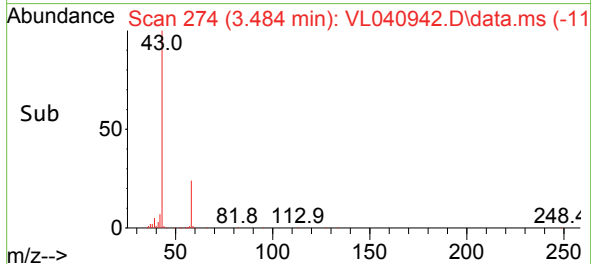
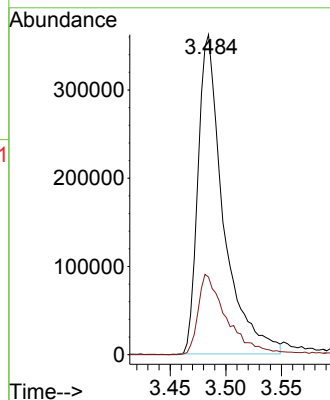
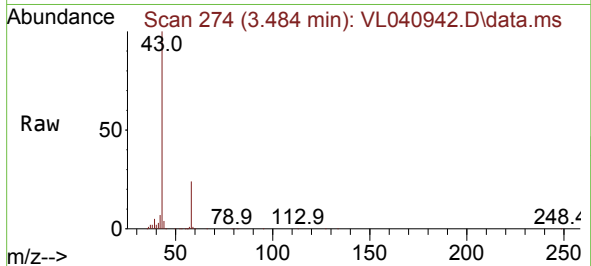




#15
Acetone
Concen: 3.952 ppbv
RT: 3.484 min Scan# 21
Delta R.T. 0.026 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

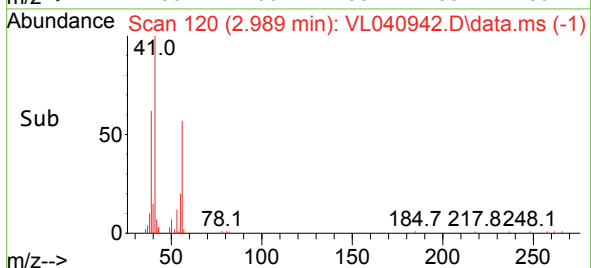
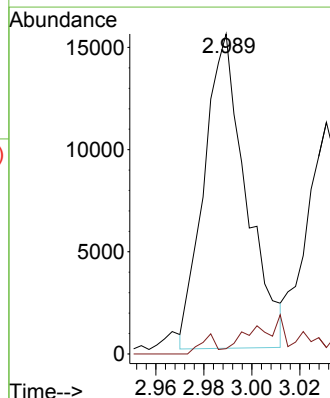
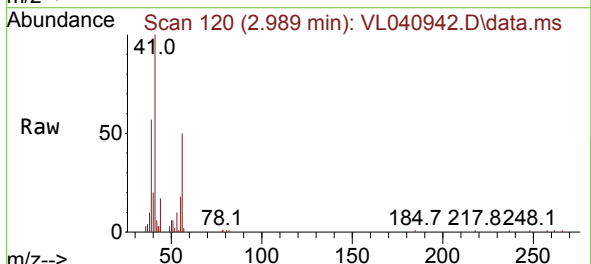
Instrument :
MSVOA_L
ClientSampleId :

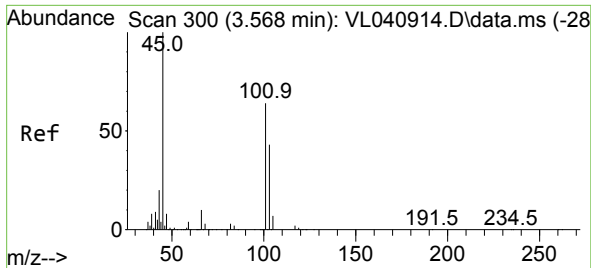
Tgt Ion: 43 Resp: 573504
Ion Ratio Lower Upper
43 100
58 29.8 20.6 30.8



#16
1,3-Butadiene
Concen: 0.299 ppbv
RT: 2.989 min Scan# 120
Delta R.T. 0.010 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

Tgt Ion: 39 Resp: 18702
Ion Ratio Lower Upper
39 100
54 0.0 63.8 95.6#





#19

Isopropyl Alcohol

Concen: 0.108 ppbv

RT: 3.600 min Scan# 310

Delta R.T. 0.032 min

Lab File: VL040942.D

Acq: 21 Dec 2023 22:56

Instrument :

MSVOA_L

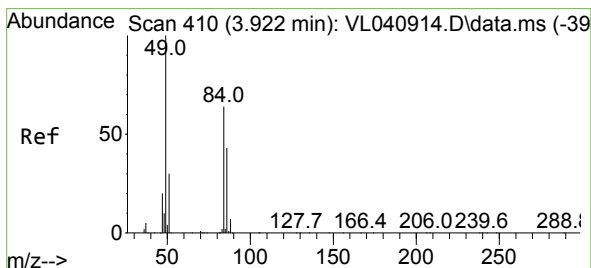
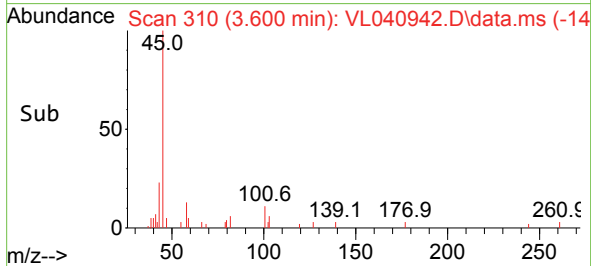
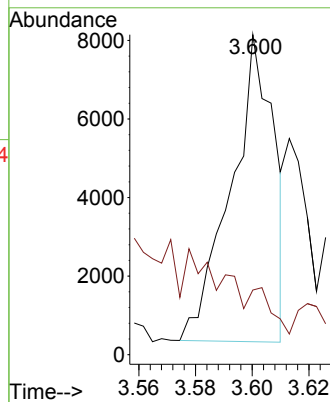
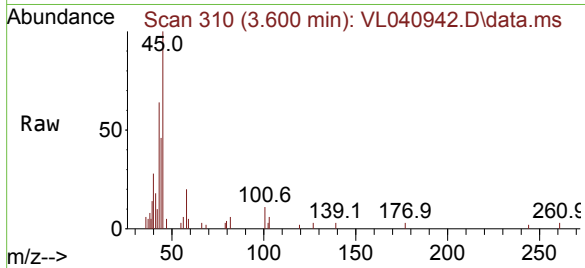
ClientSampleId :

Tgt Ion: 45 Resp: 8203

Ion Ratio Lower Upper

45 100

58 0.0 1.5 2.3#



#20

Methylene Chloride

Concen: 1.855 ppbv

RT: 3.941 min Scan# 416

Delta R.T. 0.019 min

Lab File: VL040942.D

Acq: 21 Dec 2023 22:56

Tgt Ion: 84 Resp: 95959

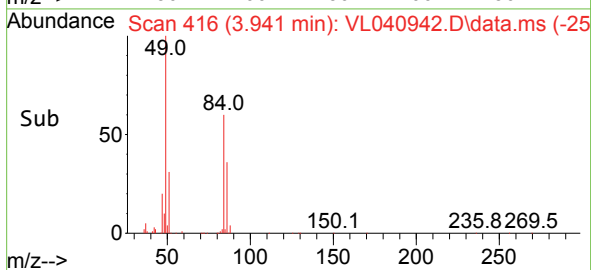
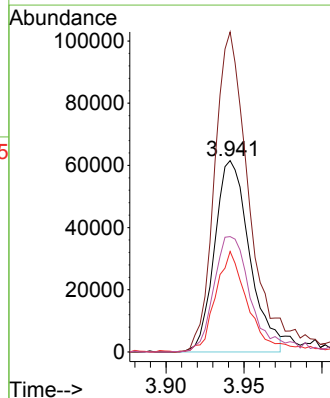
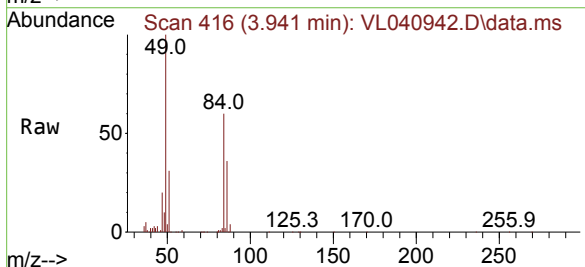
Ion Ratio Lower Upper

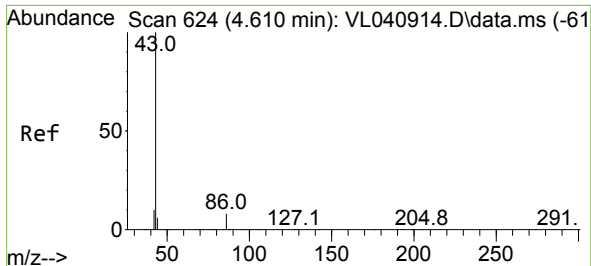
84 100

49 166.8 124.6 187.0

51 52.2 37.2 55.8

86 60.2 53.4 80.0



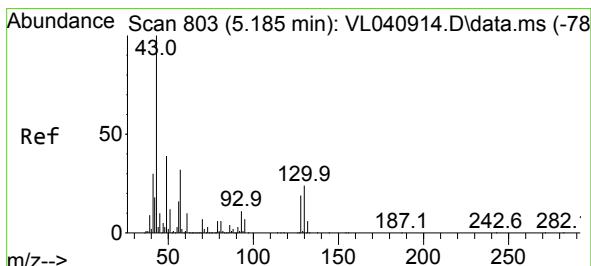
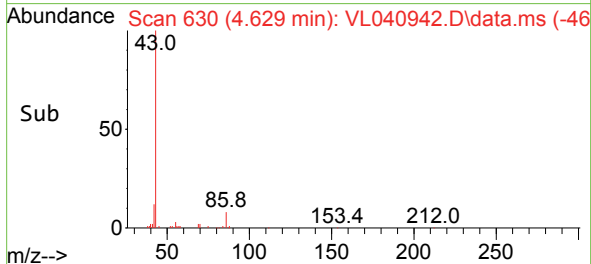
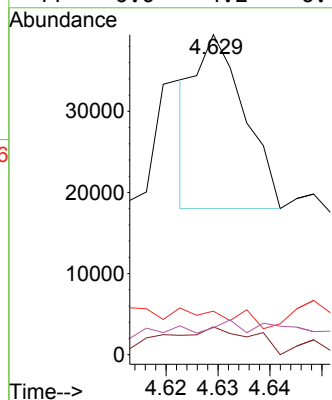
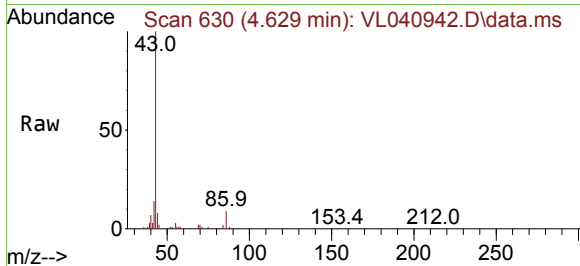


#23
 Vinyl Acetate
 Concen: 0.089 ppbv
 RT: 4.629 min Scan# 61
 Delta R.T. 0.019 min
 Lab File: VL040942.D
 Acq: 21 Dec 2023 22:56

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion: 43 Resp: 14174

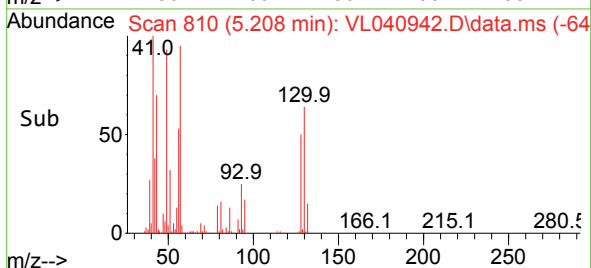
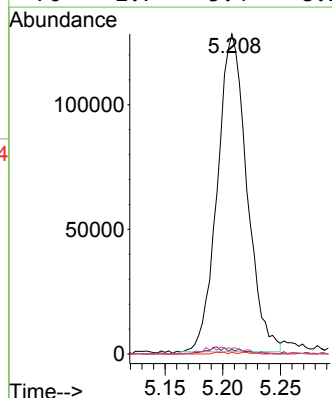
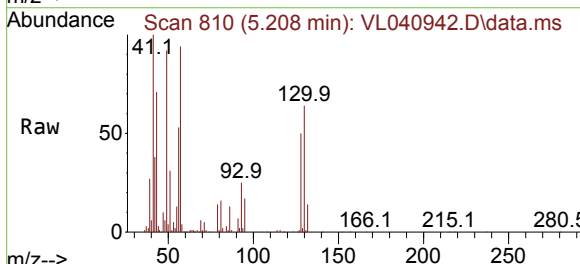
Ion	Ratio	Lower	Upper
43	100		
86	16.0	5.5	8.3#
42	7.3	8.4	12.6#
44	0.0	4.2	6.4#

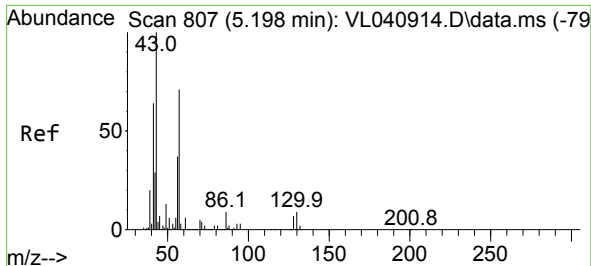


#25
 Ethyl Acetate
 Concen: 0.901 ppbv
 RT: 5.208 min Scan# 810
 Delta R.T. 0.023 min
 Lab File: VL040942.D
 Acq: 21 Dec 2023 22:56

Tgt Ion: 43 Resp: 226601

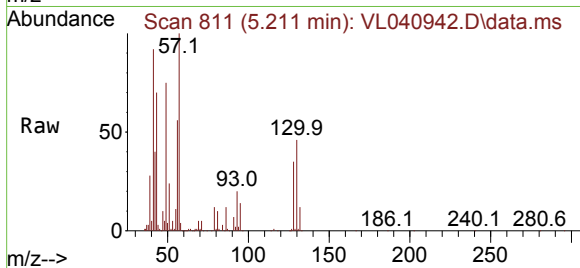
Ion	Ratio	Lower	Upper
43	100		
45	2.2	8.2	12.2#
61	0.4	7.6	11.4#
70	2.7	5.4	8.2#



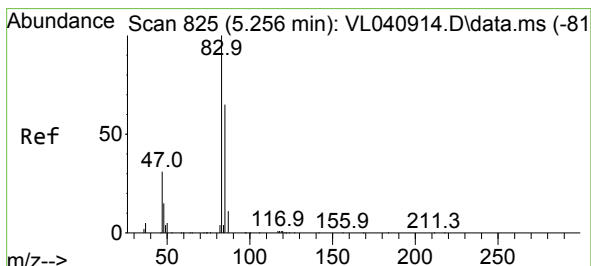
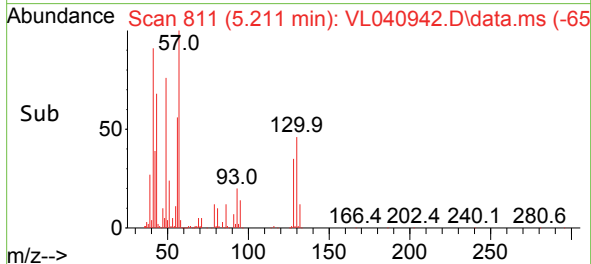
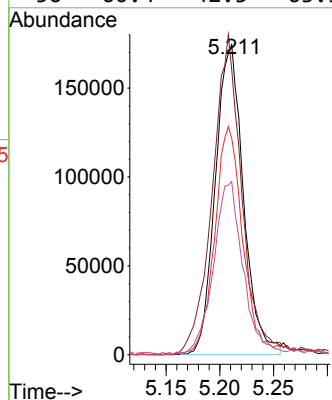


#26
Hexane
Concen: 2.842 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.013 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

Instrument :
MSVOA_L
ClientSampleId :

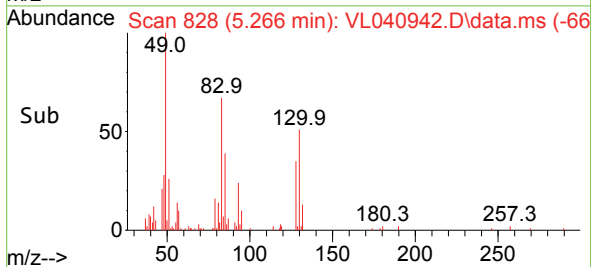
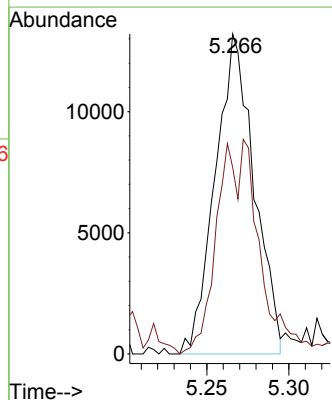
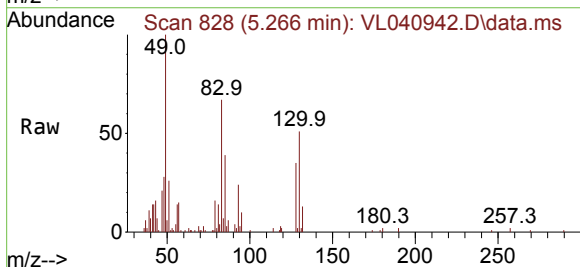


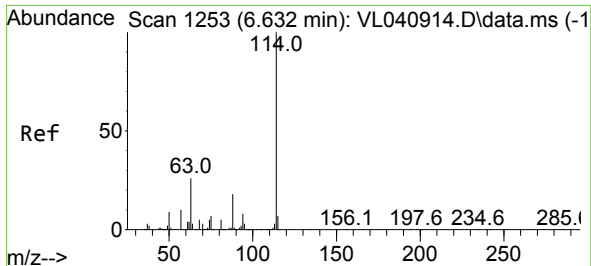
Tgt Ion: 57 Resp: 316649
Ion Ratio Lower Upper
57 100
41 110.6 75.2 112.8
43 77.4 188.0 282.0#
56 60.4 42.3 63.5



#29
Chloroform
Concen: 0.116 ppbv
RT: 5.266 min Scan# 828
Delta R.T. 0.010 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

Tgt Ion: 83 Resp: 21766
Ion Ratio Lower Upper
83 100
85 58.3 52.3 78.5





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.635 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL040942.D

Acq: 21 Dec 2023 22:56

Instrument :

MSVOA_L

ClientSampleId :

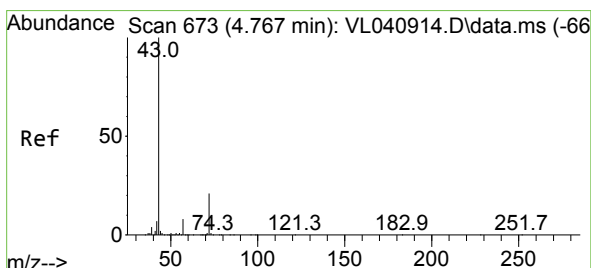
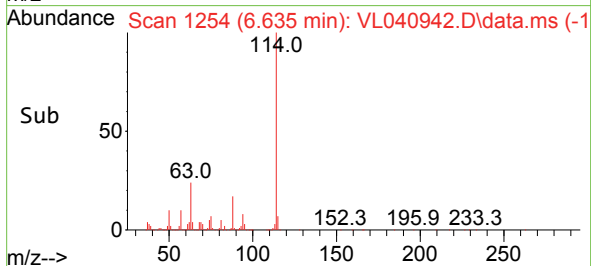
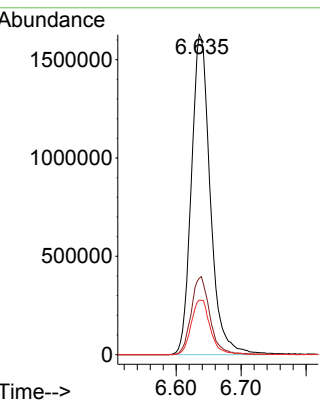
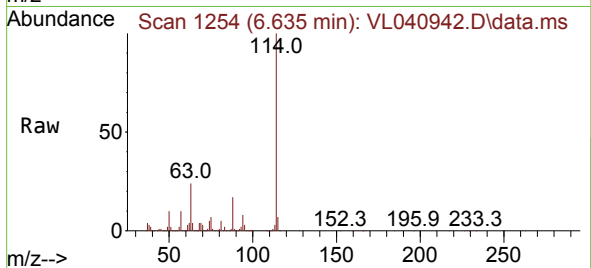
Tgt Ion:114 Resp: 3293791

Ion Ratio Lower Upper

114 100

63 24.3 21.0 31.6

88 17.4 14.3 21.5



#34

2-Butanone

Concen: 3.424 ppbv

RT: 4.790 min Scan# 680

Delta R.T. 0.023 min

Lab File: VL040942.D

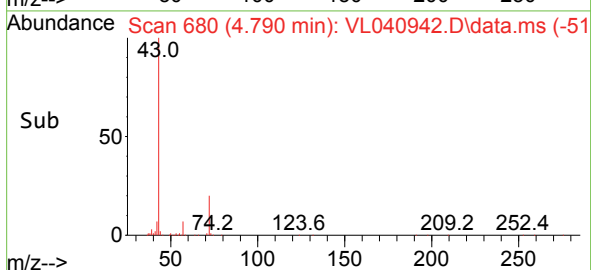
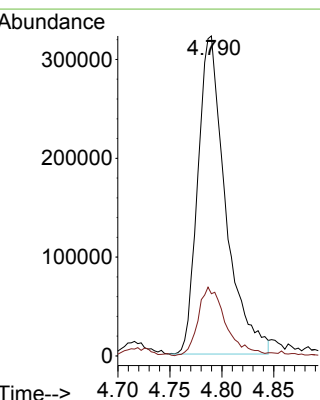
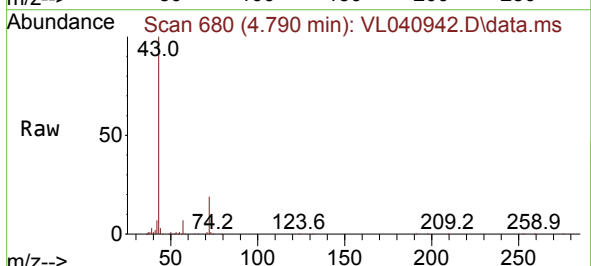
Acq: 21 Dec 2023 22:56

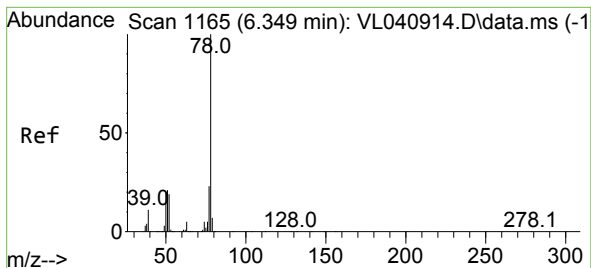
Tgt Ion: 43 Resp: 596604

Ion Ratio Lower Upper

43 100

72 22.8 17.2 25.8





#36

Benzene

Concen: 0.080 ppbv

RT: 6.359 min Scan# 1168

Delta R.T. 0.010 min

Lab File: VL040942.D

Acq: 21 Dec 2023 22:56

Instrument :

MSVOA_L

ClientSampleId :

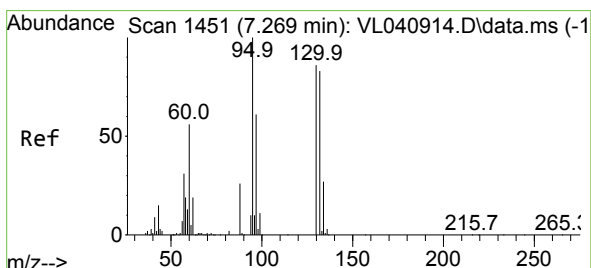
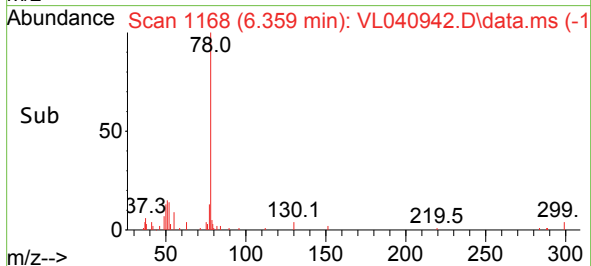
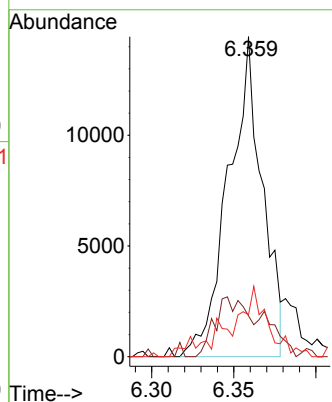
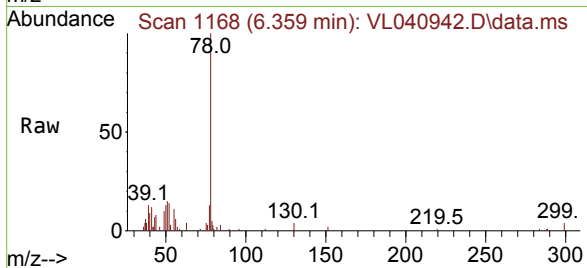
Tgt Ion: 78 Resp: 20648

Ion Ratio Lower Upper

78 100

77 7.9 18.4 27.6#

50 9.9 16.0 24.0#



#38

Trichloroethene

Concen: 0.115 ppbv

RT: 7.272 min Scan# 1452

Delta R.T. 0.003 min

Lab File: VL040942.D

Acq: 21 Dec 2023 22:56

Tgt Ion: 130 Resp: 11158

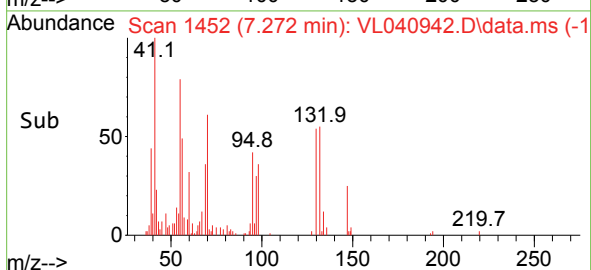
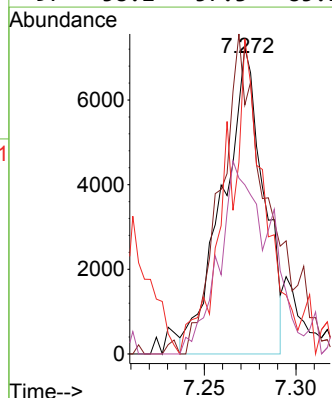
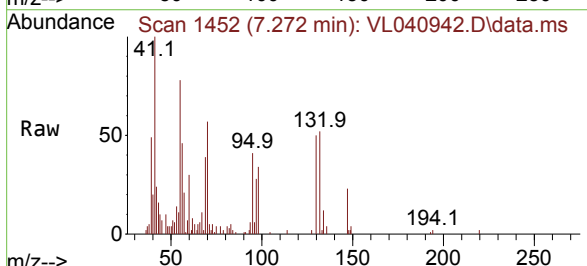
Ion Ratio Lower Upper

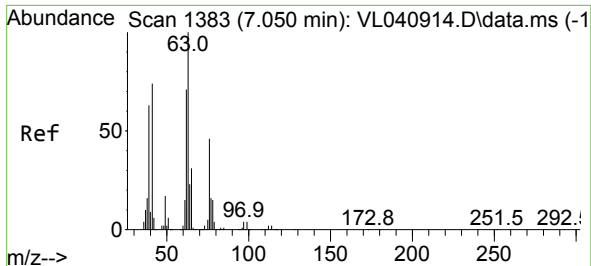
130 100

95 85.7 93.5 140.3#

132 108.5 77.4 116.2

97 58.2 57.3 85.9





#39

1,2-Dichloropropane

Concen: 7.742 ppbv

RT: 6.639 min Scan# 1

Delta R.T. -0.411 min

Lab File: VL040942.D

Acq: 21 Dec 2023 22:56

Instrument :

MSVOA_L

ClientSampleId :

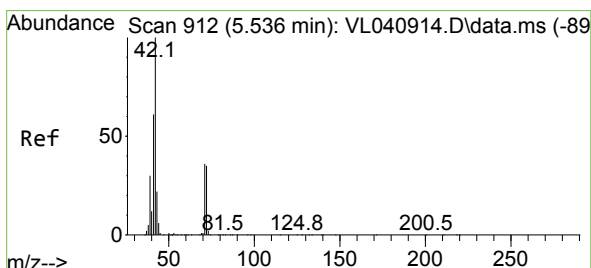
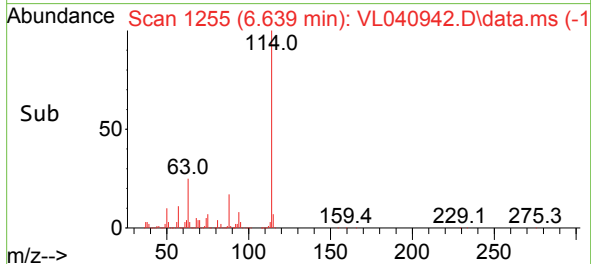
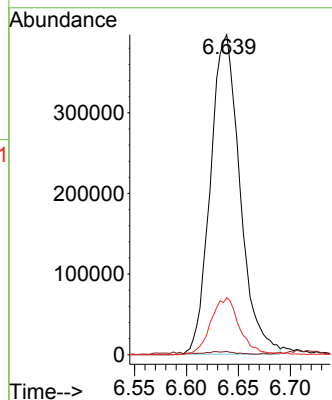
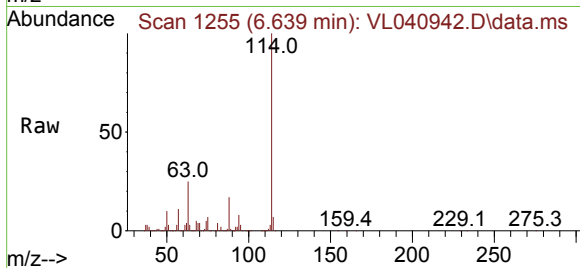
Tgt Ion: 63 Resp: 783355

Ion Ratio Lower Upper

63 100

41 0.3 59.0 88.6#

62 17.7 56.6 85.0#



#41

Tetrahydrofuran

Concen: 1.261 ppbv

RT: 5.208 min Scan# 810

Delta R.T. -0.328 min

Lab File: VL040942.D

Acq: 21 Dec 2023 22:56

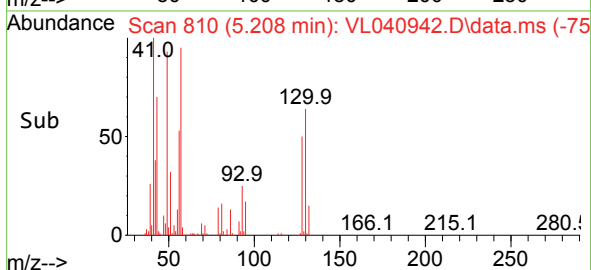
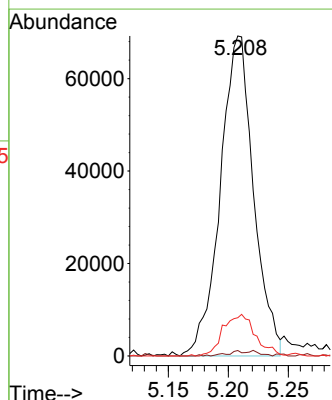
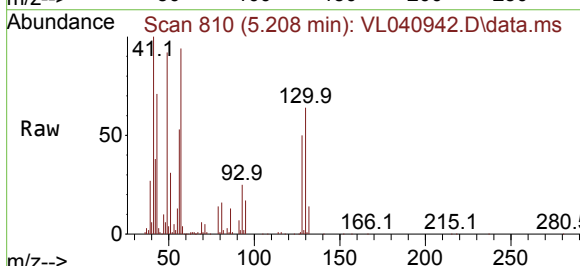
Tgt Ion: 42 Resp: 133646

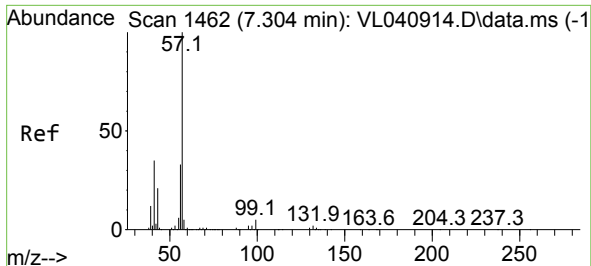
Ion Ratio Lower Upper

42 100

72 1.6 29.6 44.4#

71 12.9 29.1 43.7#

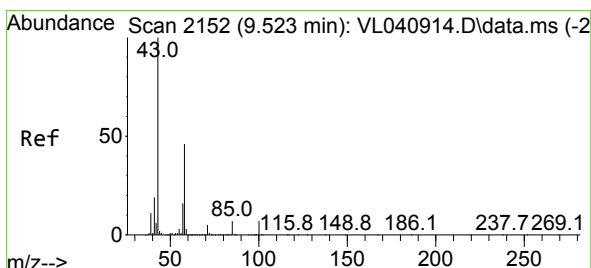
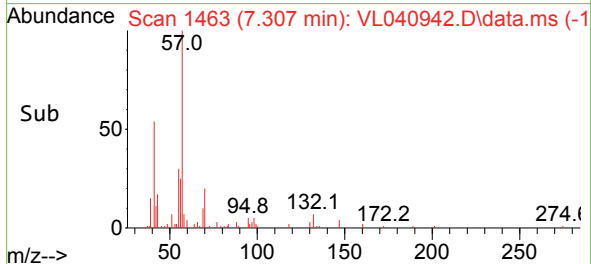
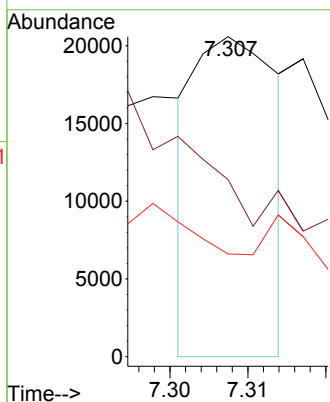
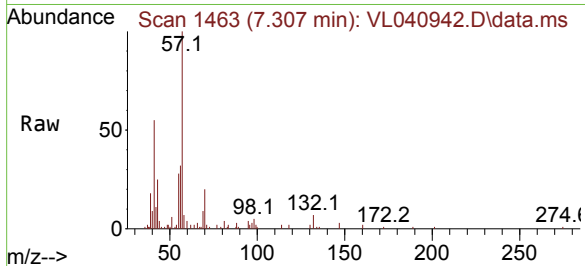




#44
2,2,4-Trimethylpentane
Concen: 0.034 ppbv
RT: 7.307 min Scan# 1463
Delta R.T. 0.003 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

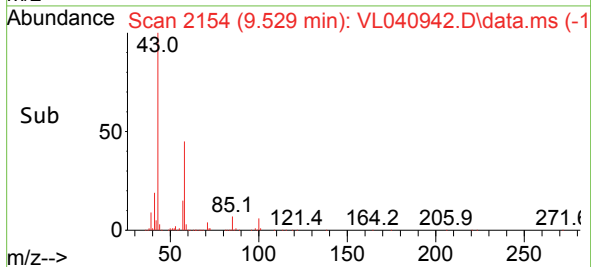
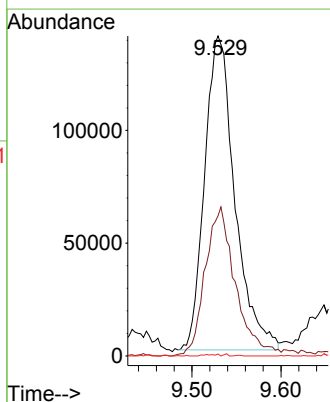
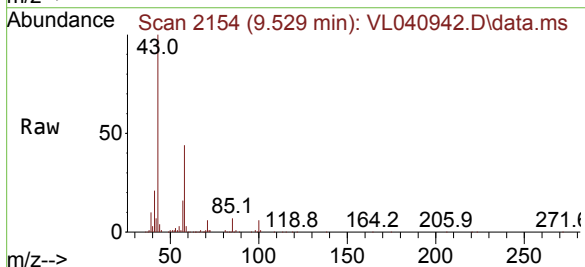
Instrument :
MSVOA_L
ClientSampleId :

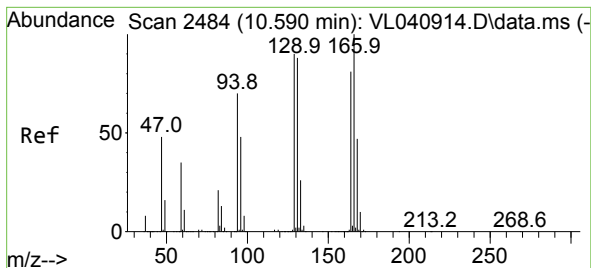
Tgt Ion: 57 Resp: 15006
Ion Ratio Lower Upper
57 100
41 0.0 28.2 42.4#
56 0.0 25.3 37.9#



#51
2-Hexanone
Concen: 1.728 ppbv
RT: 9.529 min Scan# 2154
Delta R.T. 0.007 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

Tgt Ion: 43 Resp: 328230
Ion Ratio Lower Upper
43 100
58 48.9 37.3 55.9
98 0.3 0.2 0.2#





#52

Tetrachloroethene

Concen: 12.308 ppbv

RT: 10.587 min Scan# 2483

Delta R.T. -0.003 min

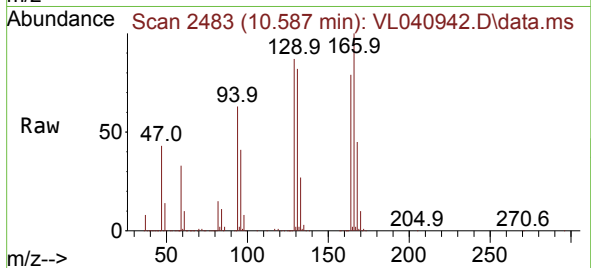
Lab File: VL040942.D

Acq: 21 Dec 2023 22:56

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion:164 Resp: 1067601

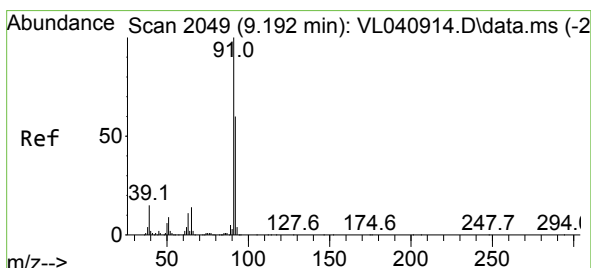
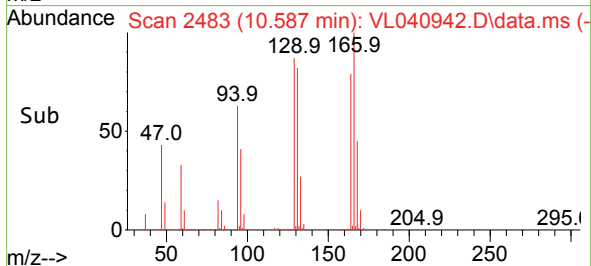
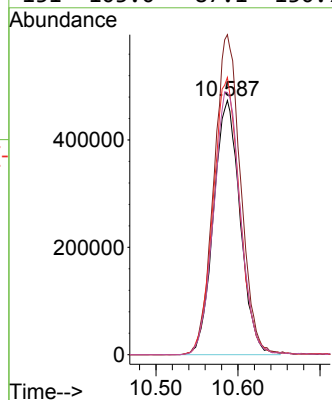
Ion Ratio Lower Upper

164 100

166 125.8 98.9 148.3

129 109.1 88.7 133.1

131 103.0 87.1 130.7



#53

Toluene

Concen: 0.275 ppbv

RT: 9.195 min Scan# 2050

Delta R.T. 0.003 min

Lab File: VL040942.D

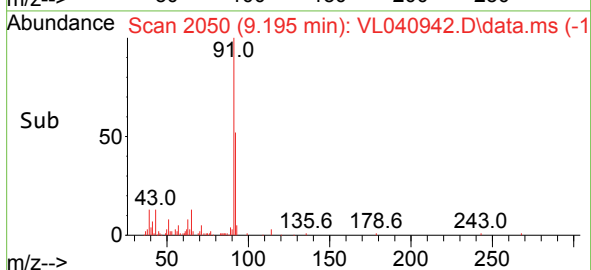
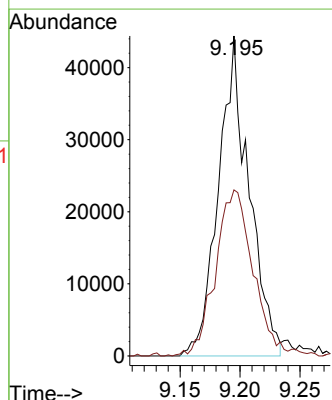
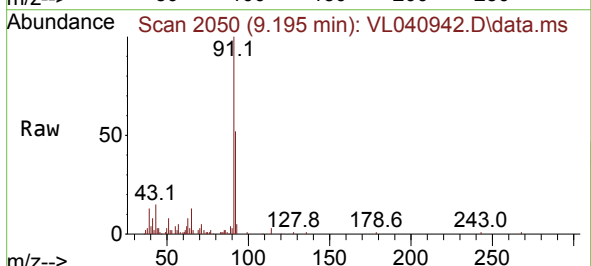
Acq: 21 Dec 2023 22:56

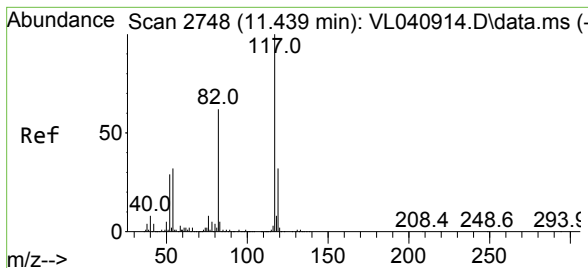
Tgt Ion: 91 Resp: 78608

Ion Ratio Lower Upper

91 100

92 64.6 49.2 73.8

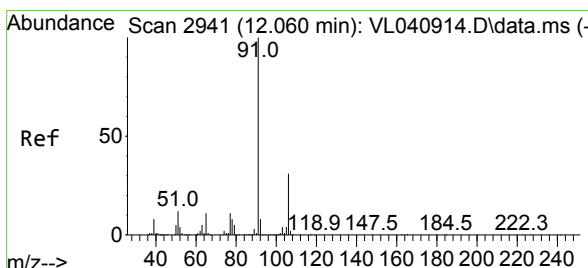
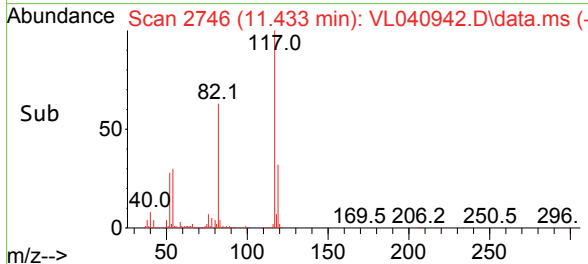
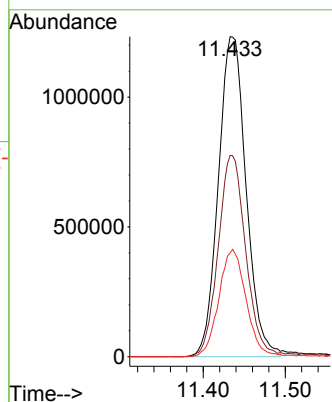
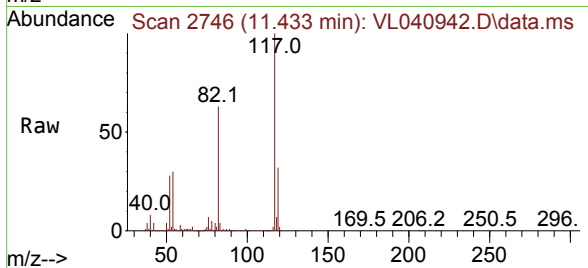




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.433 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

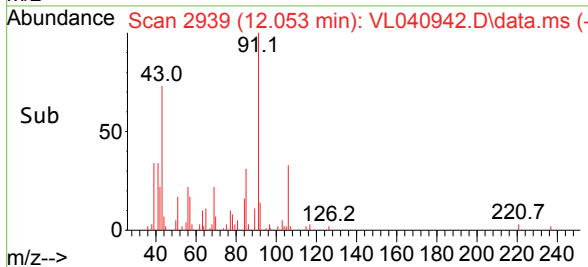
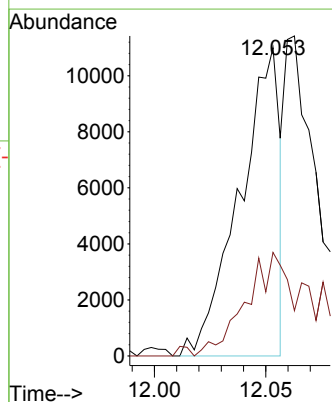
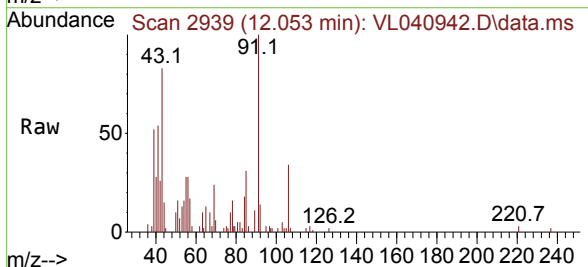
Instrument :
MSVOA_L
ClientSampleId :

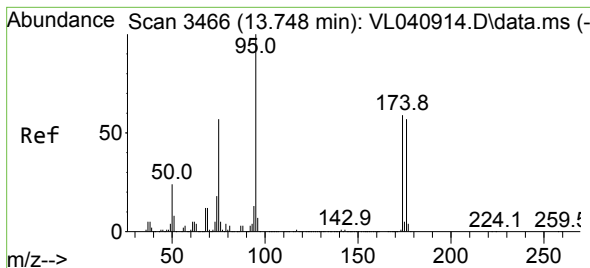
Tgt Ion:117 Resp: 2898867
Ion Ratio Lower Upper
117 100
82 63.3 49.6 74.4
119 33.2 23.4 35.0



#58
Ethyl Benzene
Concen: 0.037 ppbv
RT: 12.053 min Scan# 2939
Delta R.T. -0.006 min
Lab File: VL040942.D
Acq: 21 Dec 2023 22:56

Tgt Ion: 91 Resp: 13740
Ion Ratio Lower Upper
91 100
106 30.5 24.9 37.3

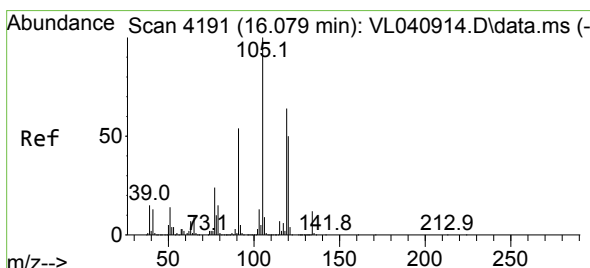
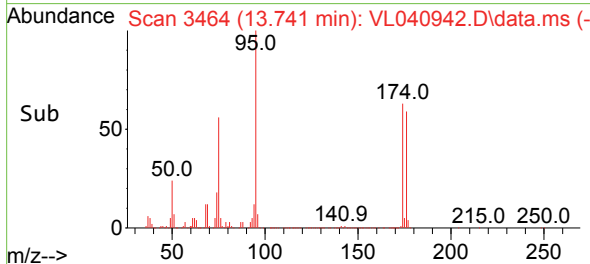
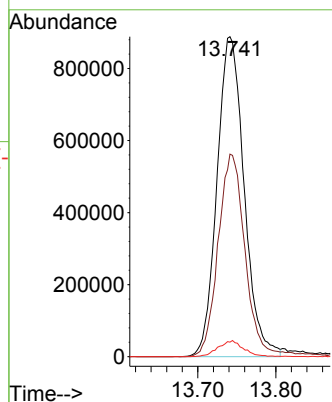
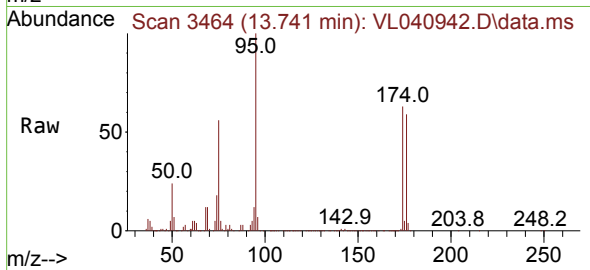




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.069 ppbv
 RT: 13.741 min Scan# 3466
 Delta R.T. -0.006 min
 Lab File: VL040942.D
 Acq: 21 Dec 2023 22:56

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion: 95 Resp: 2149969
 Ion Ratio Lower Upper
 95 100
 174 63.5 48.0 72.0
 175 4.8 3.7 5.5



#74
 1,2,4-Trimethylbenzene
 Concen: 0.062 ppbv
 RT: 16.069 min Scan# 4188
 Delta R.T. -0.010 min
 Lab File: VL040942.D
 Acq: 21 Dec 2023 22:56

Tgt Ion: 105 Resp: 19383
 Ion Ratio Lower Upper
 105 100
 120 58.6 40.2 60.4
 91 2.3 43.0 64.6#
 77 13.0 18.9 28.3#

