

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122123\
 Data File : VL040946.D
 Acq On : 22 Dec 2023 1:27
 Operator : SY/MD
 Sample : 05848-03DL 20X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 22 03:42:11 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)

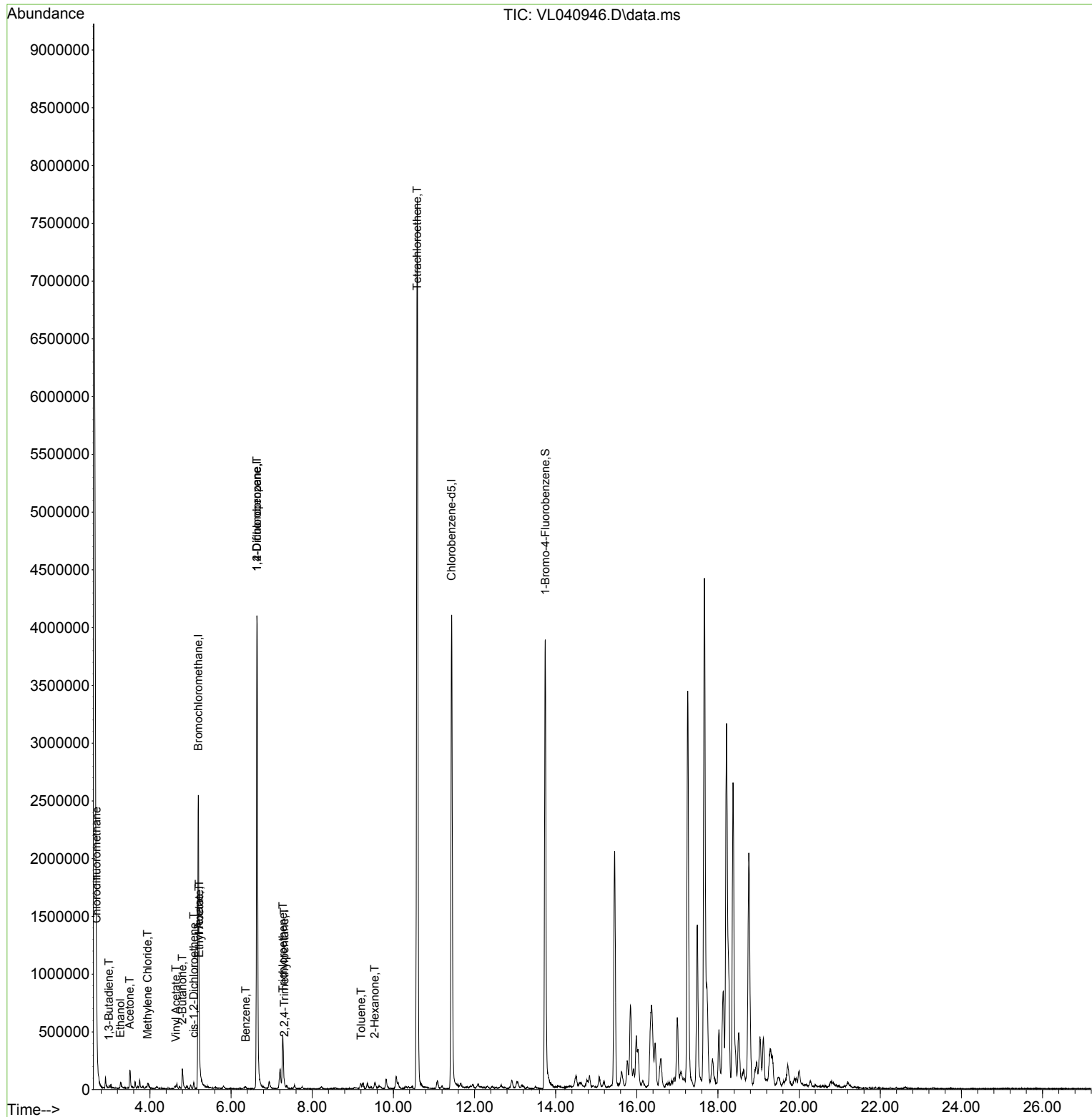
Internal Standards						
1) Bromochloromethane	5.192	49	1214289	10.000	ppbv	0.02
33) 1,4-Difluorobenzene	6.639	114	3259098	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.433	117	2828904	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.745	95	2036901	9.775	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.800%
Target Compounds						
					Qvalue	
3) Chlorodifluoromethane	2.684	51	86453	0.473	ppbv #	61
13) Ethanol	3.275	45	54807	3.603	ppbv	92
15) Acetone	3.501	43	110040	0.756	ppbv	94
16) 1,3-Butadiene	2.993	39	3687	0.059	ppbv #	9
20) Methylene Chloride	3.944	84	7594	0.146	ppbv	95
23) Vinyl Acetate	4.639	43	7801	0.049	ppbv #	74
25) Ethyl Acetate	5.214	43	51273	0.203	ppbv #	85
26) Hexane	5.211	57	59957	0.536	ppbv #	42
31) cis-1,2-Dichloroethene	5.079	61	20487	0.178	ppbv	86
34) 2-Butanone	4.800	43	194048	1.126	ppbv #	90
36) Benzene	6.359	78	10266	0.040	ppbv #	93
38) Trichloroethene	7.279	130	68710	0.718	ppbv	98
39) 1,2-Dichloropropane	6.639	63	774017	7.731	ppbv #	23
44) 2,2,4-Trimethylpentane	7.314	57	23332	0.054	ppbv #	29
51) 2-Hexanone	9.542	43	29843	0.159	ppbv #	47
52) Tetrachloroethene	10.587	164	1967722	22.927	ppbv	96
53) Toluene	9.204	91	10980	0.039	ppbv #	20

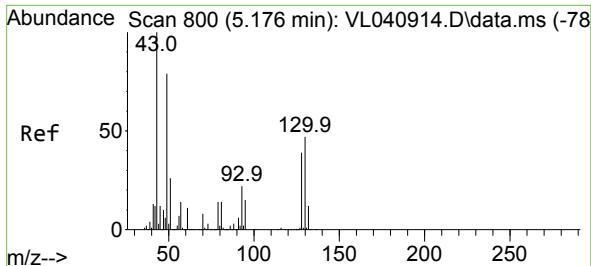
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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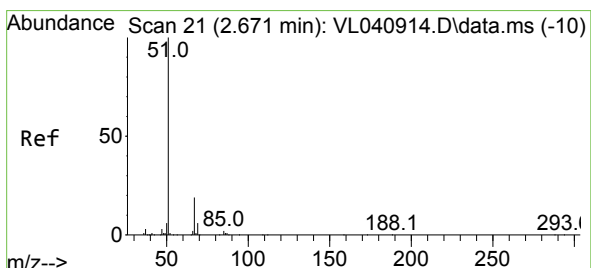
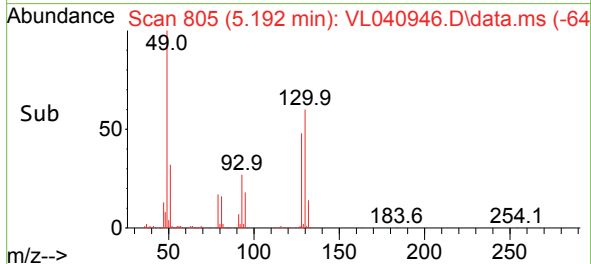
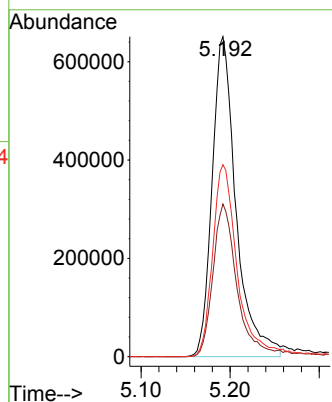
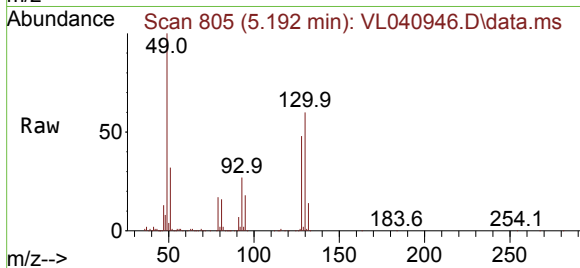




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.192 min Scan# 80
Delta R.T. 0.016 min
Lab File: VL040946.D
Acq: 22 Dec 2023 1:27

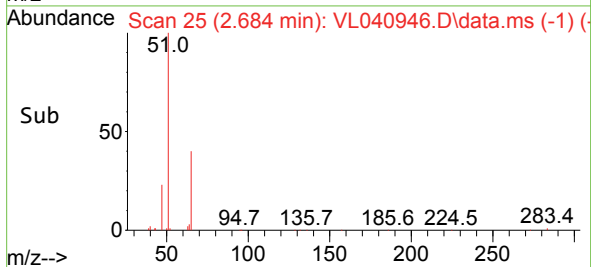
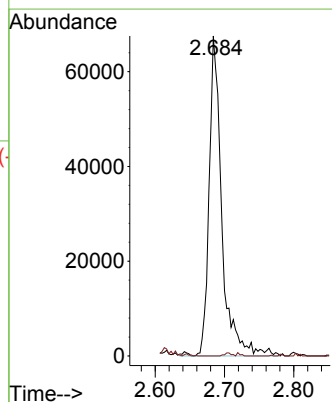
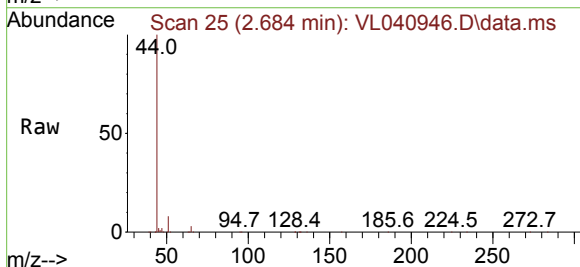
Instrument :
MSVOA_L
ClientSampleId :

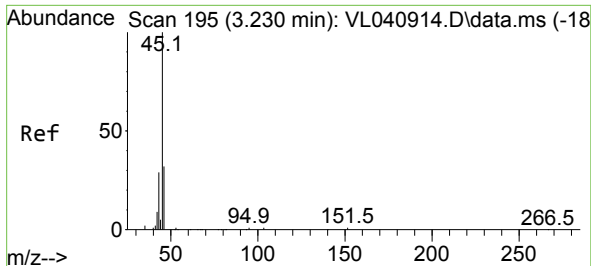
Tgt Ion: 49 Resp: 1214289
Ion Ratio Lower Upper
49 100
128 49.8 23.8 71.2
130 63.8 30.1 90.5



#3
Chlorodifluoromethane
Concen: 0.473 ppbv
RT: 2.684 min Scan# 25
Delta R.T. 0.013 min
Lab File: VL040946.D
Acq: 22 Dec 2023 1:27

Tgt Ion: 51 Resp: 86453
Ion Ratio Lower Upper
51 100
67 0.8 14.7 22.1#

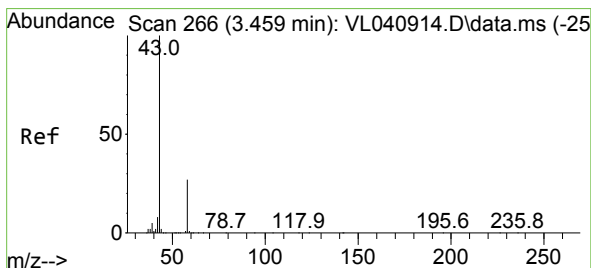
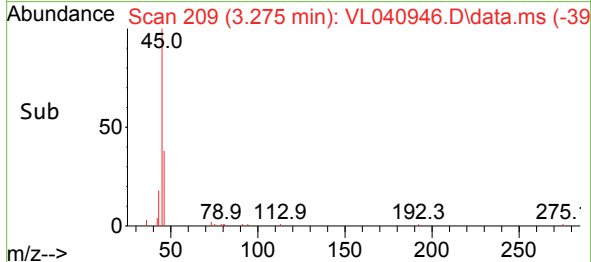
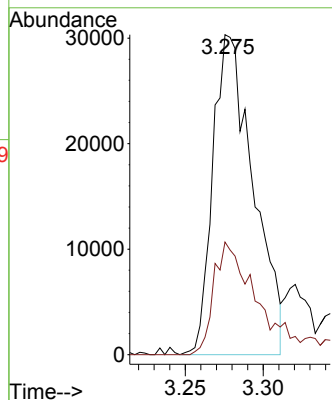
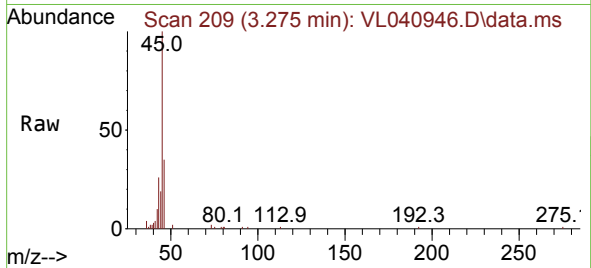




#13
 Ethanol
 Concen: 3.603 ppbv
 RT: 3.275 min Scan# 209
 Delta R.T. 0.045 min
 Lab File: VL040946.D
 Acq: 22 Dec 2023 1:27

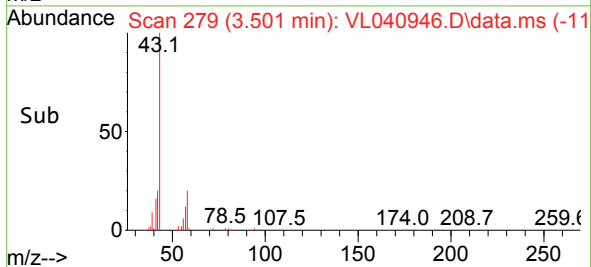
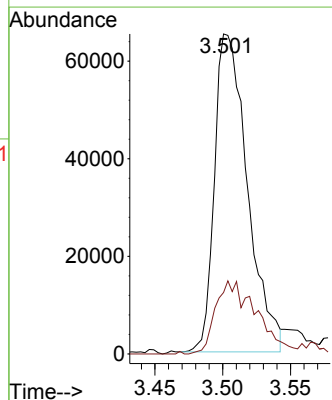
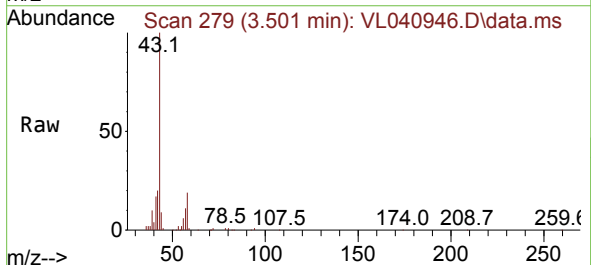
Instrument :
 MSVOA_L
 ClientSampleId :

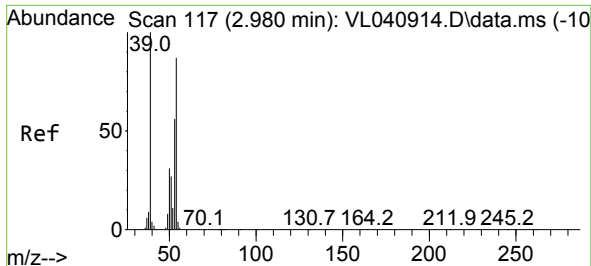
Tgt Ion: 45 Resp: 54807
 Ion Ratio Lower Upper
 45 100
 46 42.5 15.0 60.0



#15
 Acetone
 Concen: 0.756 ppbv
 RT: 3.501 min Scan# 279
 Delta R.T. 0.042 min
 Lab File: VL040946.D
 Acq: 22 Dec 2023 1:27

Tgt Ion: 43 Resp: 110040
 Ion Ratio Lower Upper
 43 100
 58 28.7 20.6 30.8

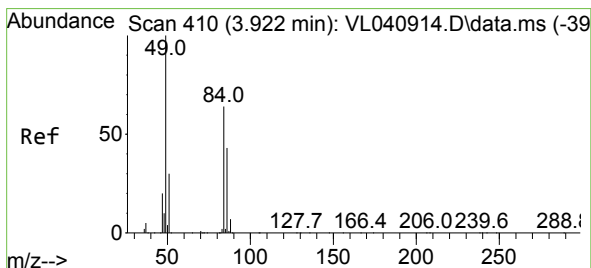
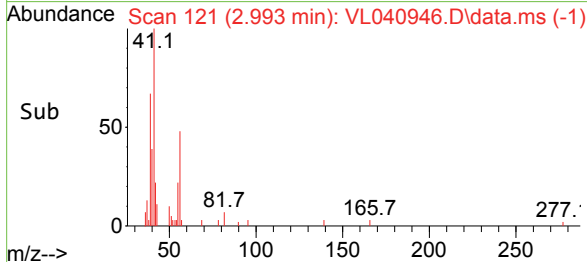
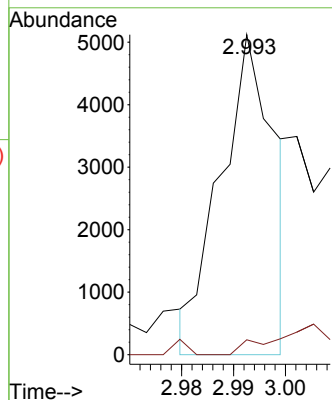
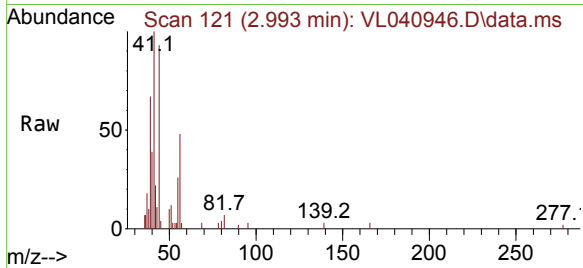




#16
1,3-Butadiene
Concen: 0.059 ppbv
RT: 2.993 min Scan# 117
Delta R.T. 0.013 min
Lab File: VL040946.D
Acq: 22 Dec 2023 1:27

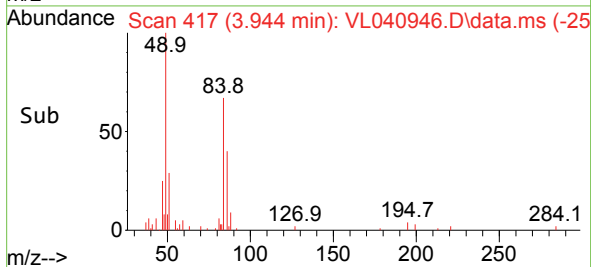
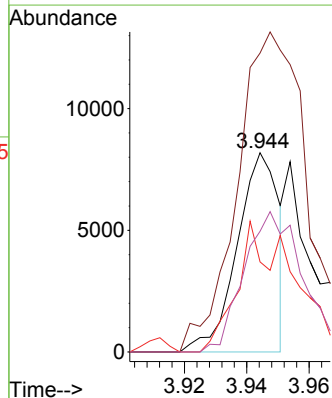
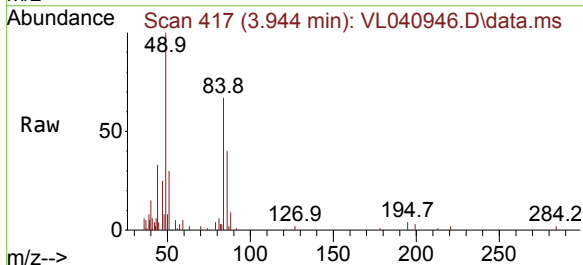
Instrument :
MSVOA_L
ClientSampleId :

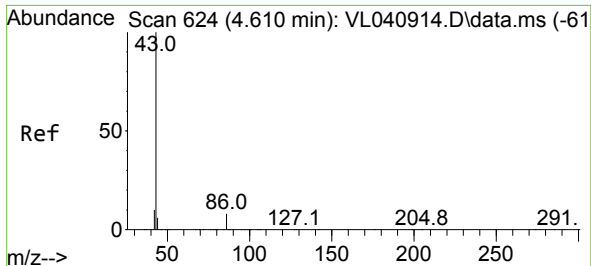
Tgt Ion: 39 Resp: 3687
Ion Ratio Lower Upper
39 100
54 0.0 63.8 95.6#



#20
Methylene Chloride
Concen: 0.146 ppbv
RT: 3.944 min Scan# 417
Delta R.T. 0.023 min
Lab File: VL040946.D
Acq: 22 Dec 2023 1:27

Tgt Ion: 84 Resp: 7594
Ion Ratio Lower Upper
84 100
49 150.0 124.6 187.0
51 45.2 37.2 55.8
86 60.5 53.4 80.0



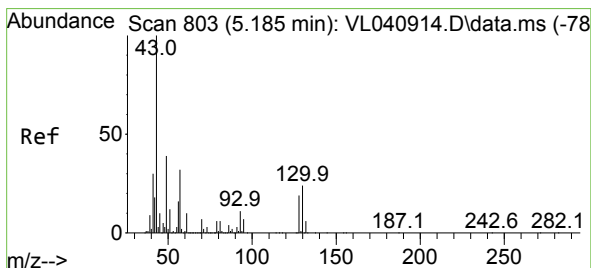
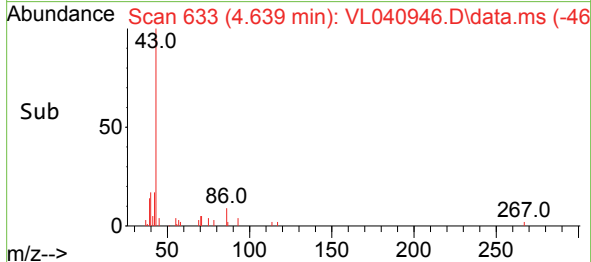
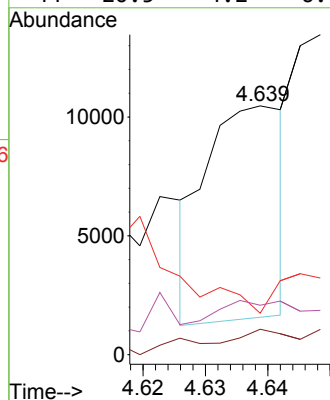
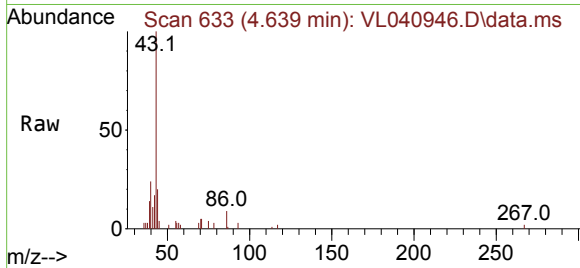


#23
 Vinyl Acetate
 Concen: 0.049 ppbv
 RT: 4.639 min Scan# 61
 Delta R.T. 0.029 min
 Lab File: VL040946.D
 Acq: 22 Dec 2023 1:27

Instrument :
 MSVOA_L
 ClientSampleId :

Tgt Ion: 43 Resp: 7801

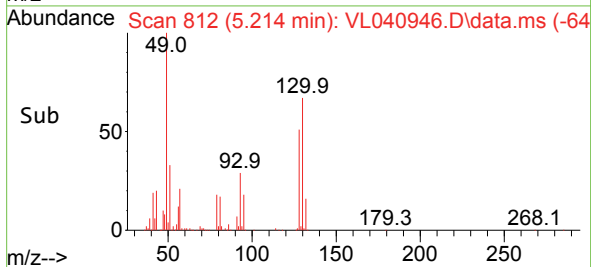
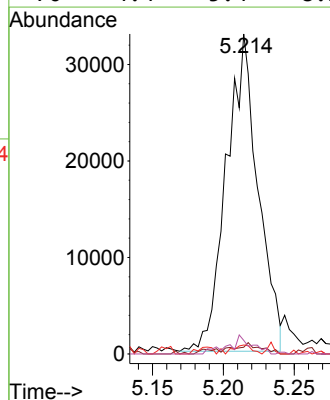
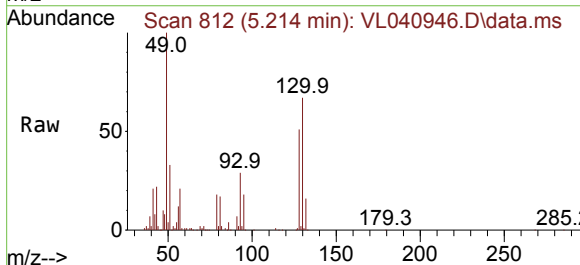
Ion	Ratio	Lower	Upper
43	100		
86	9.5	5.5	8.3#
42	0.0	8.4	12.6#
44	20.5	4.2	6.4#

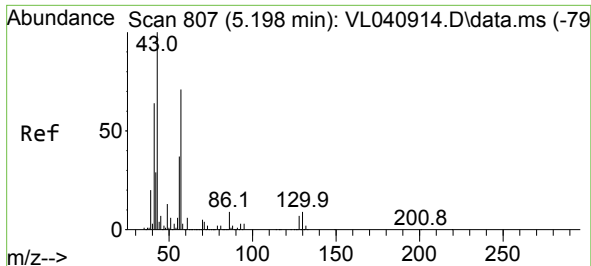


#25
 Ethyl Acetate
 Concen: 0.203 ppbv
 RT: 5.214 min Scan# 812
 Delta R.T. 0.029 min
 Lab File: VL040946.D
 Acq: 22 Dec 2023 1:27

Tgt Ion: 43 Resp: 51273

Ion	Ratio	Lower	Upper
43	100		
45	3.9	8.2	12.2#
61	2.3	7.6	11.4#
70	4.4	5.4	8.2#

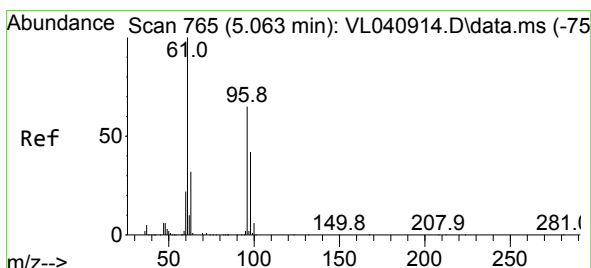
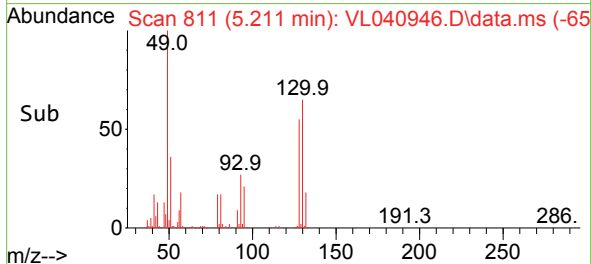
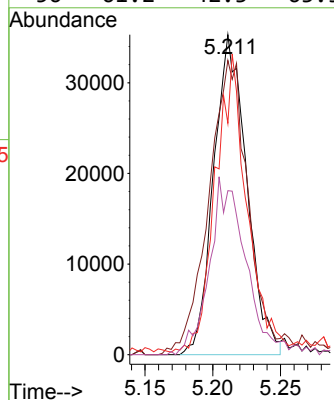
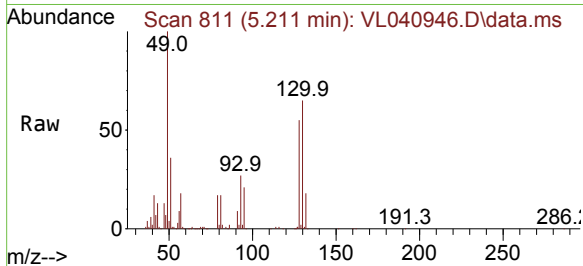




#26
Hexane
Concen: 0.536 ppbv
RT: 5.211 min Scan# 811
Delta R.T. 0.013 min
Lab File: VL040946.D
Acq: 22 Dec 2023 1:27

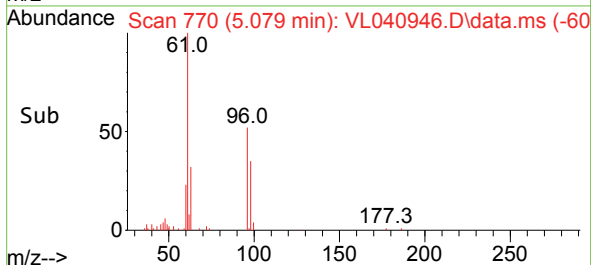
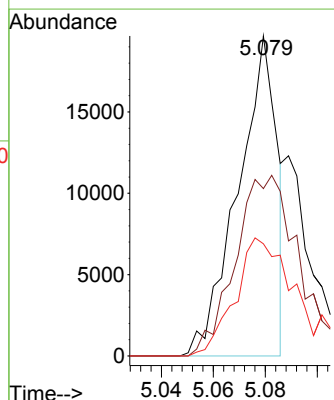
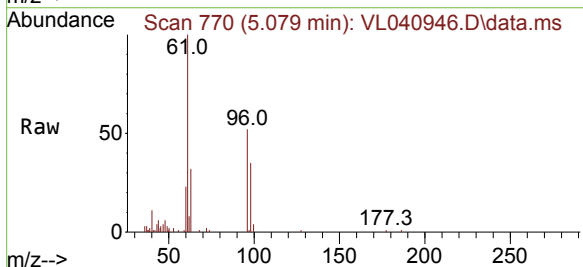
Instrument :
MSVOA_L
ClientSampleId :

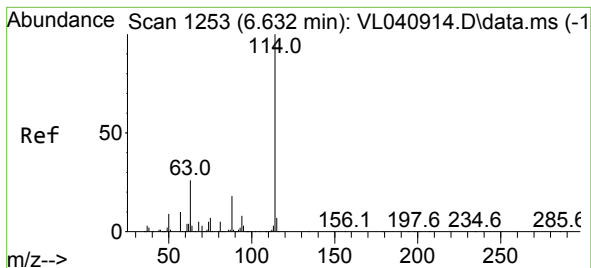
Tgt Ion: 57 Resp: 59957
Ion Ratio Lower Upper
57 100
41 112.6 75.2 112.8
43 93.2 188.0 282.0#
56 61.2 42.3 63.5



#31
cis-1,2-Dichloroethene
Concen: 0.178 ppbv
RT: 5.079 min Scan# 770
Delta R.T. 0.016 min
Lab File: VL040946.D
Acq: 22 Dec 2023 1:27

Tgt Ion: 61 Resp: 20487
Ion Ratio Lower Upper
61 100
96 52.3 51.7 77.5
98 35.1 33.2 49.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.639 min Scan# 114

Delta R.T. 0.007 min

Lab File: VL040946.D

Acq: 22 Dec 2023 1:27

Instrument :

MSVOA_L

ClientSampleId :

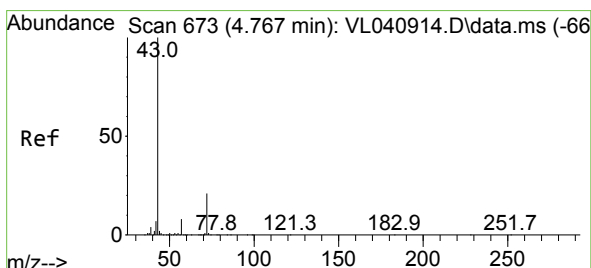
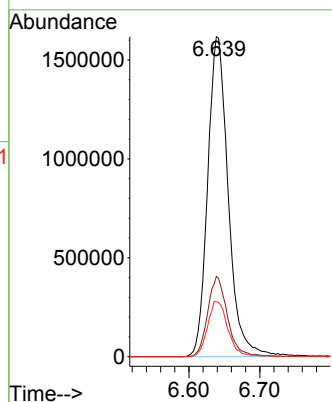
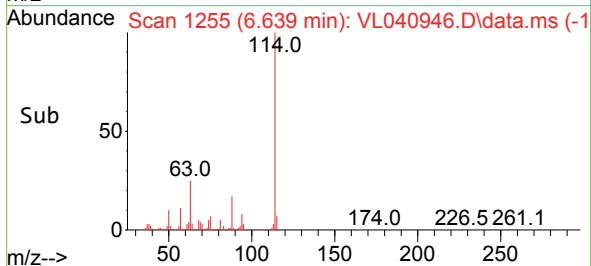
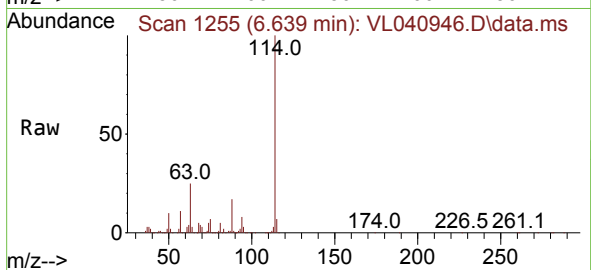
Tgt Ion:114 Resp: 3259098

Ion Ratio Lower Upper

114 100

63 24.4 21.0 31.6

88 17.2 14.3 21.5



#34

2-Butanone

Concen: 1.126 ppbv

RT: 4.800 min Scan# 683

Delta R.T. 0.032 min

Lab File: VL040946.D

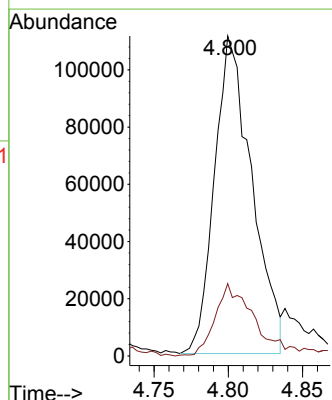
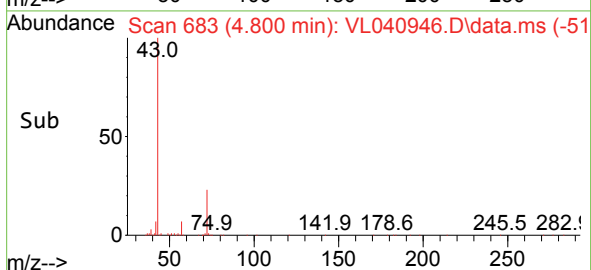
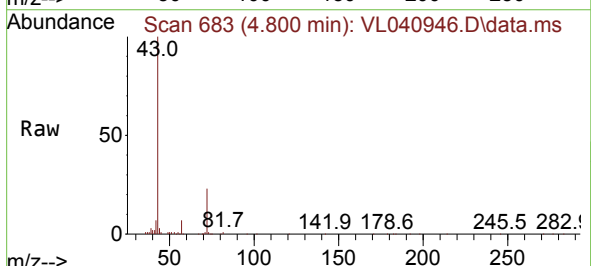
Acq: 22 Dec 2023 1:27

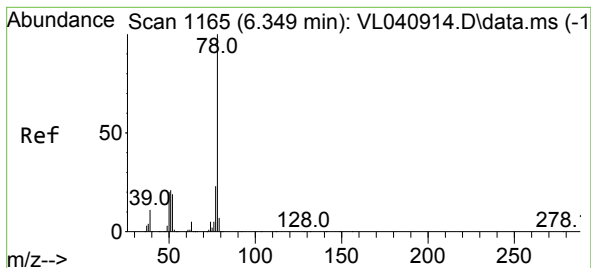
Tgt Ion: 43 Resp: 194048

Ion Ratio Lower Upper

43 100

72 26.0 17.2 25.8#





#36

Benzene

Concen: 0.040 ppbv

RT: 6.359 min Scan# 1165

Delta R.T. 0.010 min

Lab File: VL040946.D

Acq: 22 Dec 2023 1:27

Instrument :

MSVOA_L

ClientSampleId :

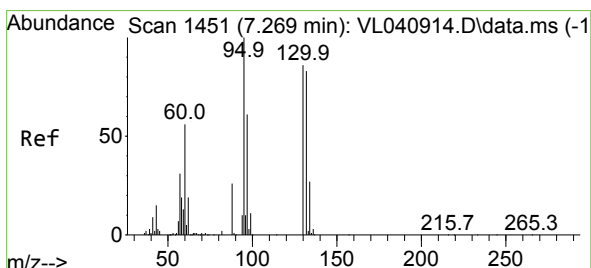
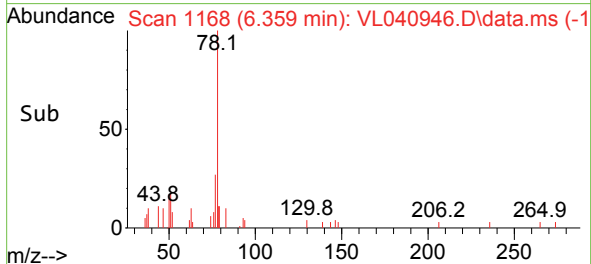
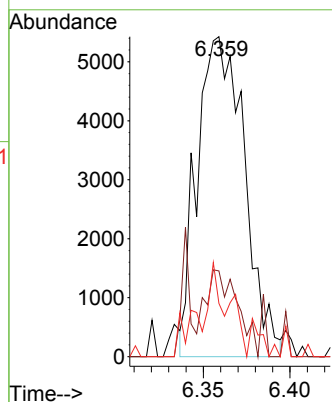
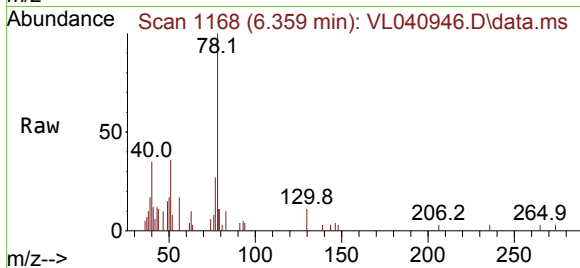
Tgt Ion: 78 Resp: 10266

Ion Ratio Lower Upper

78 100

77 25.3 18.4 27.6

50 15.7 16.0 24.0#



#38

Trichloroethene

Concen: 0.718 ppbv

RT: 7.279 min Scan# 1454

Delta R.T. 0.010 min

Lab File: VL040946.D

Acq: 22 Dec 2023 1:27

Tgt Ion:130 Resp: 68710

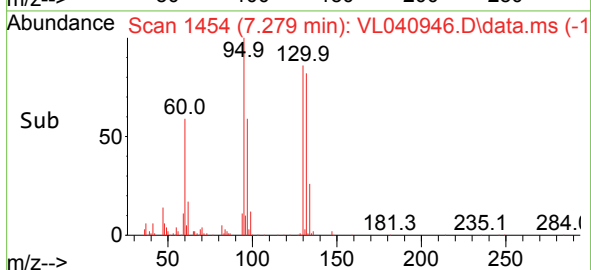
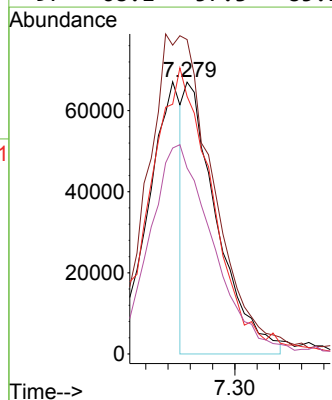
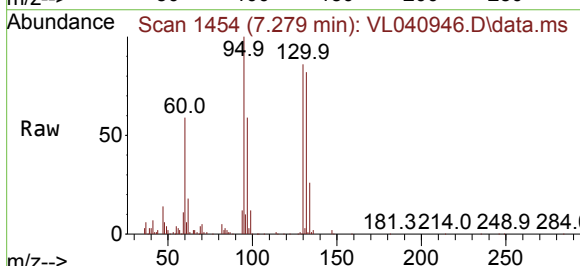
Ion Ratio Lower Upper

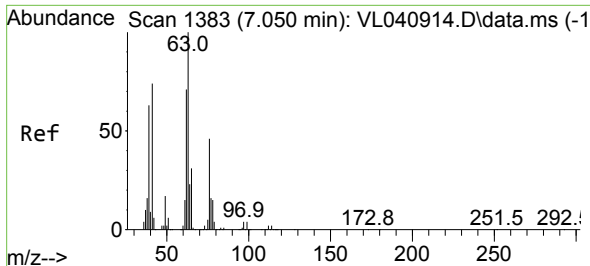
130 100

95 114.4 93.5 140.3

132 95.3 77.4 116.2

97 68.1 57.3 85.9





#39

1,2-Dichloropropane

Concen: 7.731 ppbv

RT: 6.639 min Scan# 1

Delta R.T. -0.411 min

Lab File: VL040946.D

Acq: 22 Dec 2023 1:27

Instrument :

MSVOA_L

ClientSampleId :

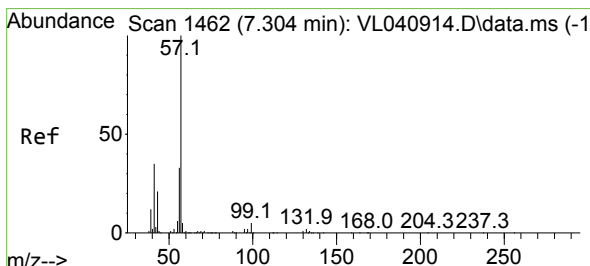
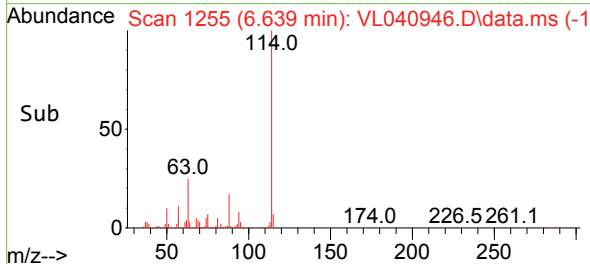
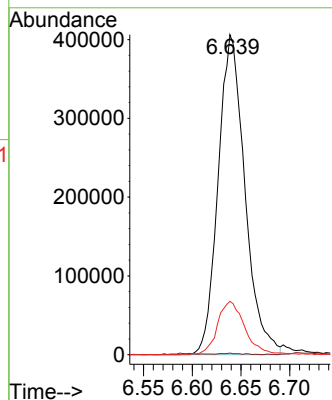
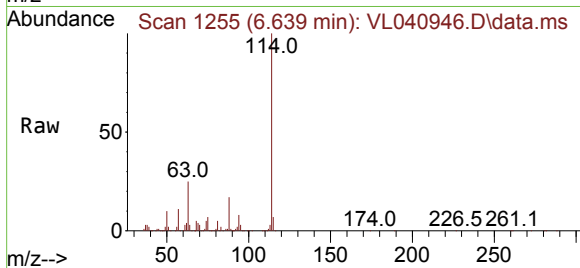
Tgt Ion: 63 Resp: 774017

Ion Ratio Lower Upper

63 100

41 0.4 59.0 88.6#

62 16.7 56.6 85.0#



#44

2,2,4-Trimethylpentane

Concen: 0.054 ppbv

RT: 7.314 min Scan# 1465

Delta R.T. 0.010 min

Lab File: VL040946.D

Acq: 22 Dec 2023 1:27

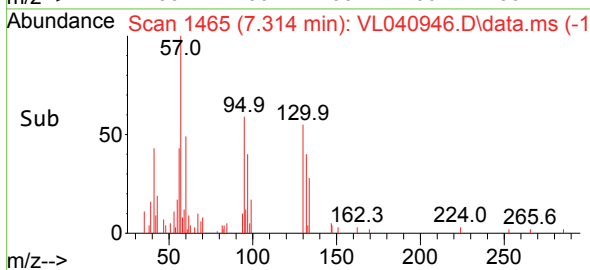
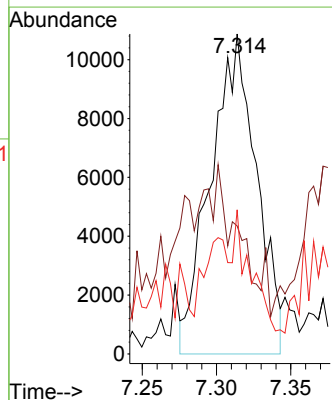
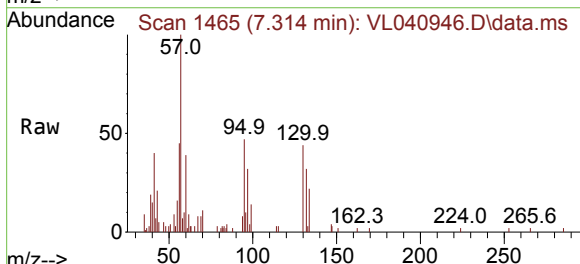
Tgt Ion: 57 Resp: 23332

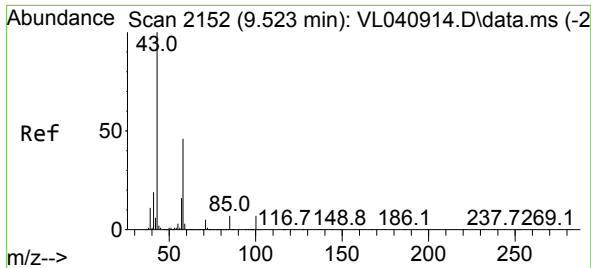
Ion Ratio Lower Upper

57 100

41 104.5 28.2 42.4#

56 40.8 25.3 37.9#

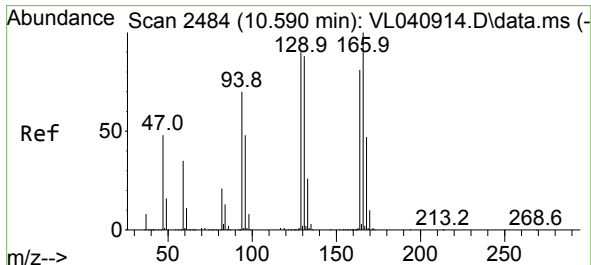
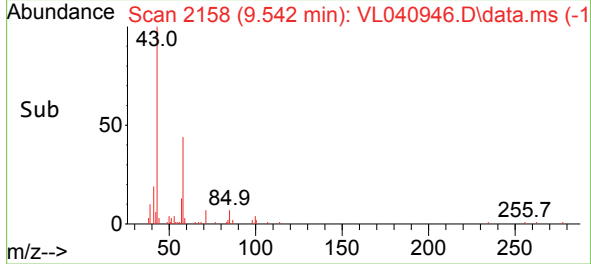
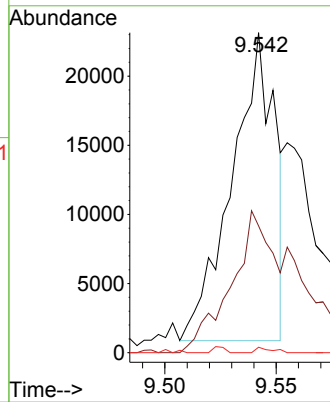
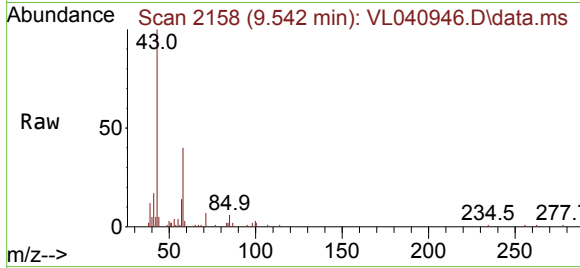




#51
2-Hexanone
Concen: 0.159 ppbv
RT: 9.542 min Scan# 2152
Delta R.T. 0.019 min
Lab File: VL040946.D
Acq: 22 Dec 2023 1:27

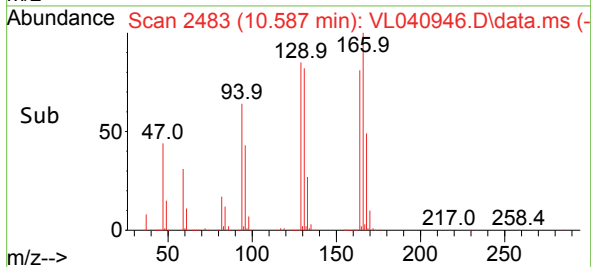
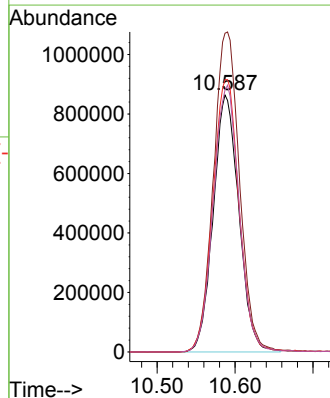
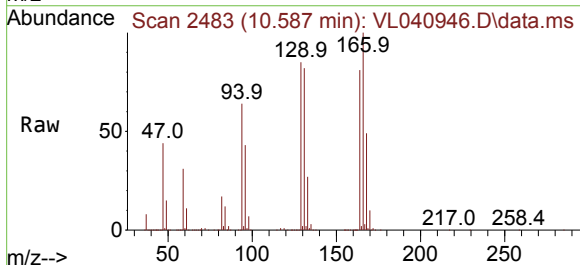
Instrument :
MSVOA_L
ClientSampleId :

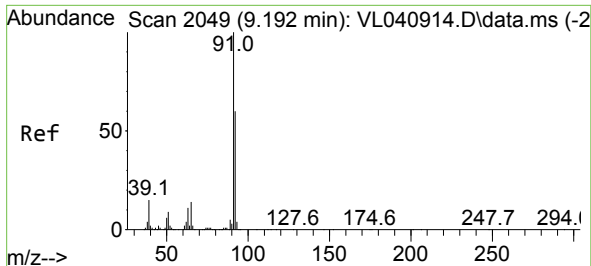
Tgt Ion: 43 Resp: 29843
Ion Ratio Lower Upper
43 100
58 81.9 37.3 55.9#
98 0.6 0.2 0.2#



#52
Tetrachloroethene
Concen: 22.927 ppbv
RT: 10.587 min Scan# 2483
Delta R.T. -0.003 min
Lab File: VL040946.D
Acq: 22 Dec 2023 1:27

Tgt Ion:164 Resp: 1967722
Ion Ratio Lower Upper
164 100
166 124.0 98.9 148.3
129 106.0 88.7 133.1
131 101.8 87.1 130.7

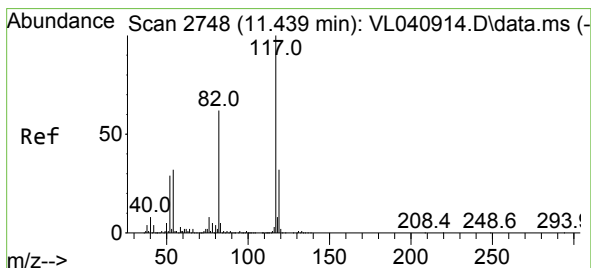
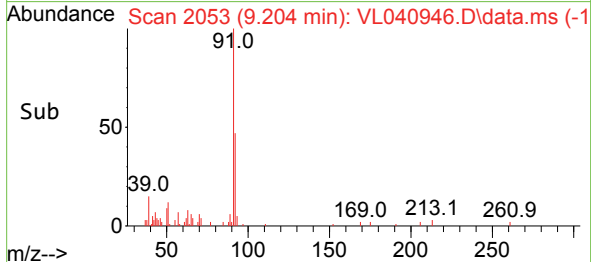
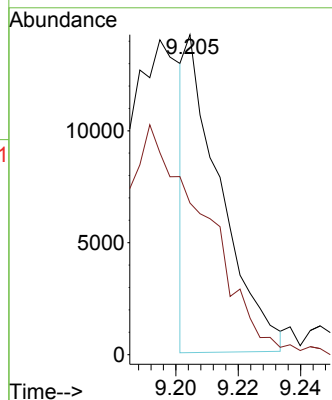
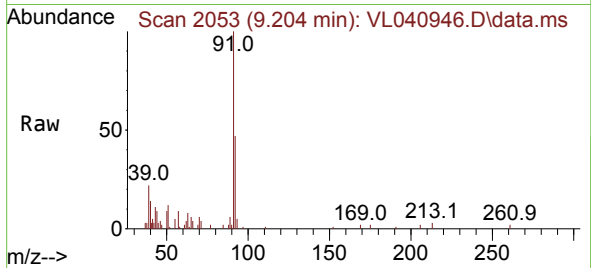




#53
Toluene
Concen: 0.039 ppbv
RT: 9.204 min Scan# 2049
Delta R.T. 0.013 min
Lab File: VL040946.D
Acq: 22 Dec 2023 1:27

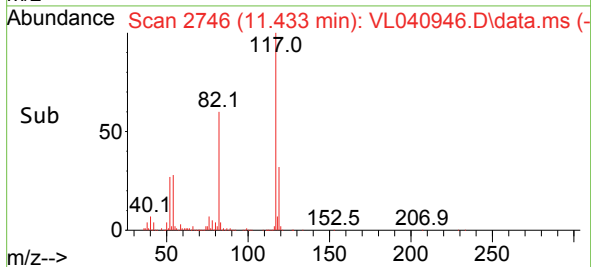
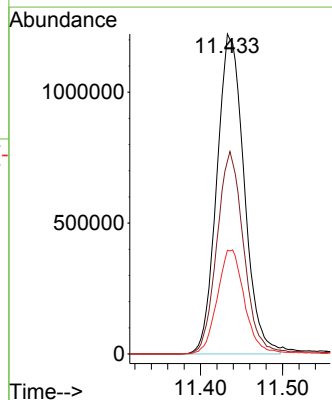
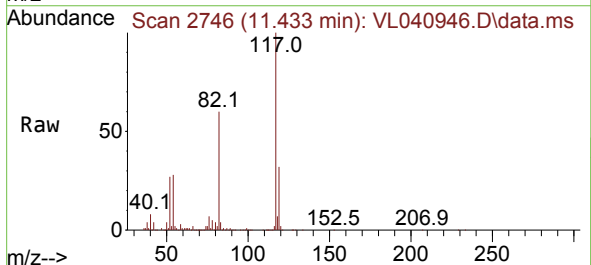
Instrument :
MSVOA_L
ClientSampleId :

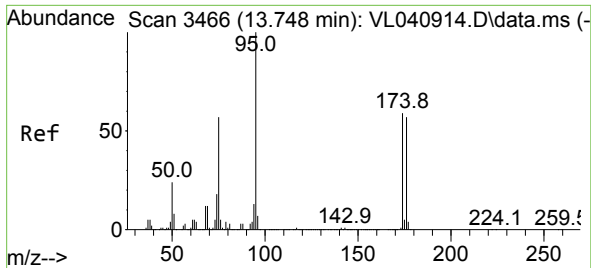
Tgt Ion: 91 Resp: 10980
Ion Ratio Lower Upper
91 100
92 0.0 49.2 73.8#



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.433 min Scan# 2746
Delta R.T. -0.006 min
Lab File: VL040946.D
Acq: 22 Dec 2023 1:27

Tgt Ion: 117 Resp: 2828904
Ion Ratio Lower Upper
117 100
82 63.0 49.6 74.4
119 32.8 23.4 35.0





#68

1-Bromo-4-Fluorobenzene

Concen: 9.775 ppbv

RT: 13.745 min Scan# 34

Delta R.T. -0.003 min

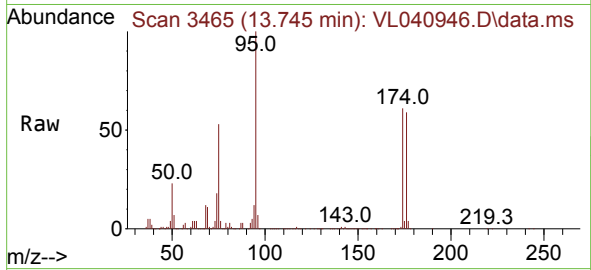
Lab File: VL040946.D

Acq: 22 Dec 2023 1:27

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 95 Resp: 2036901

Ion Ratio Lower Upper

95 100

174 64.6 48.0 72.0

175 4.9 3.7 5.5

