

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL122022\
 Data File : VL040058.D
 Acq On : 20 Dec 2022 16:00
 Operator : SY/MD
 Sample : N6085-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Quant Time: Dec 21 03:56:06 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Tue Dec 20 04:50:21 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.163	49	865020	10.000	ppbv	-0.01
33) 1,4-Difluorobenzene	6.623	114	2369175	10.000	ppbv	-0.01
55) Chlorobenzene-d5	11.439	117	2030285	10.000	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.751	95	1550993	10.001	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.000%

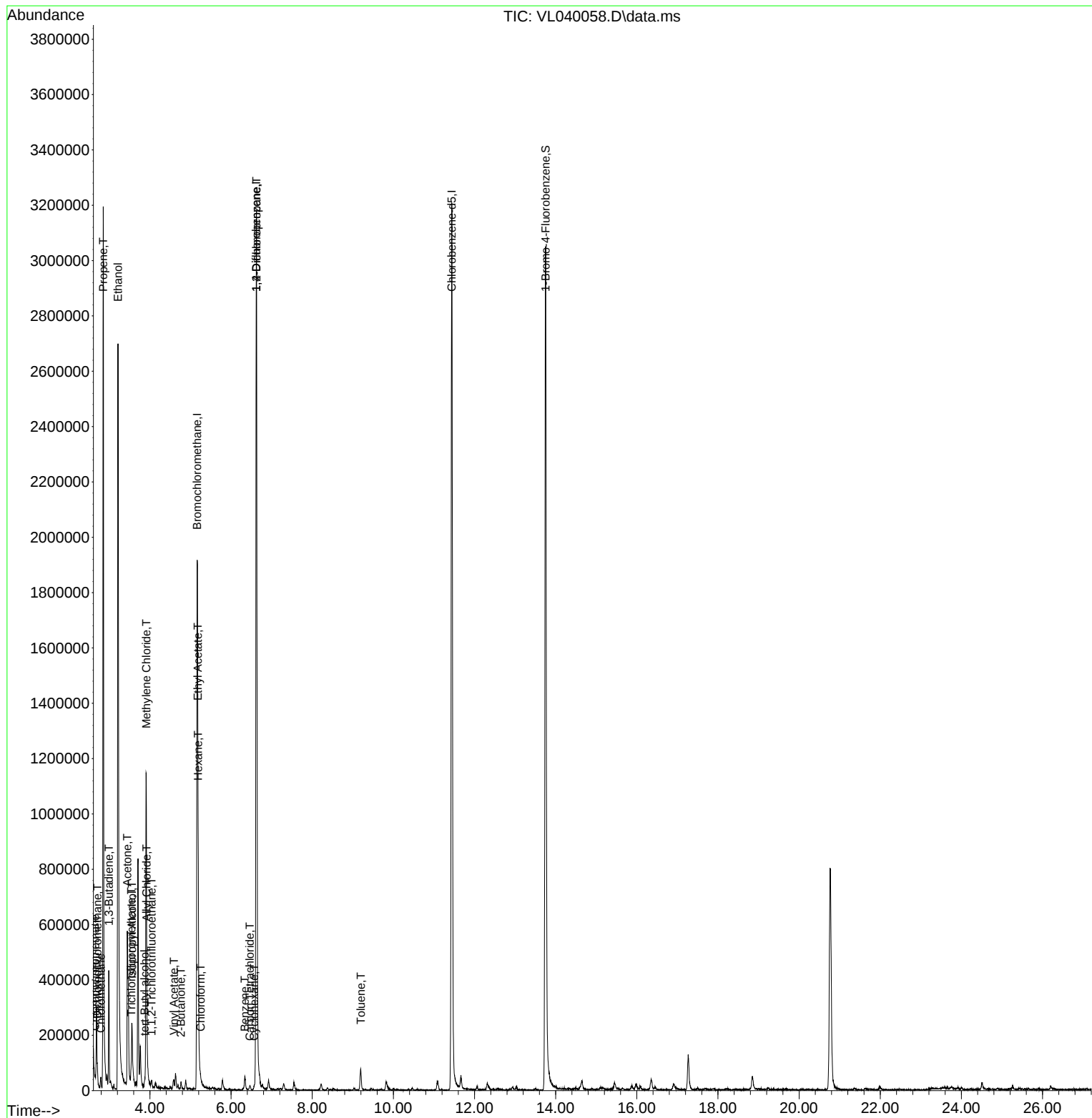
Target Compounds						Qvalue
2) Dichlorodifluoromethane	2.703	85	36043	0.223	ppbv	98
3) Chlorodifluoromethane	2.652	51	20091	0.157	ppbv #	71
4) Chloromethane	2.790	50	30794	0.385	ppbv	96
9) Propene	2.848	41	879776	16.243	ppbv	97
11) Trichlorofluoromethane	3.539	101	33757	0.192	ppbv	96
12) 1,1,2-Trichlorotrifluo...	4.041	101	8530	0.064	ppbv	96
13) Ethanol	3.211	45	2854617	559.985	ppbv	97
15) Acetone	3.443	43	598797	4.475	ppbv	98
16) 1,3-Butadiene	2.986	39	43733	0.752	ppbv #	15
17) tert-Butyl alcohol	3.870	59	6620	0.050	ppbv #	72
19) Isopropyl Alcohol	3.559	45	222586	3.375	ppbv #	92
20) Methylene Chloride	3.909	84	397340	6.986	ppbv	97
21) Allyl Chloride	3.922	41	2853	0.035	ppbv #	12
23) Vinyl Acetate	4.591	43	8587	0.202	ppbv #	1
25) Ethyl Acetate	5.182	43	165095	0.712	ppbv #	81
26) Hexane	5.189	57	235715	2.420	ppbv #	37
29) Chloroform	5.250	83	4494	0.030	ppbv #	47
30) Cyclohexane	6.568	84	3104	0.036	ppbv #	49
34) 2-Butanone	4.768	43	24753	0.193	ppbv	94
35) Carbon Tetrachloride	6.462	117	4933	0.034	ppbv	97
36) Benzene	6.340	78	31349	0.148	ppbv #	92
39) 1,2-Dichloropropane	6.626	63	592810	7.475	ppbv #	23
53) Toluene	9.195	91	52698	0.225	ppbv	94

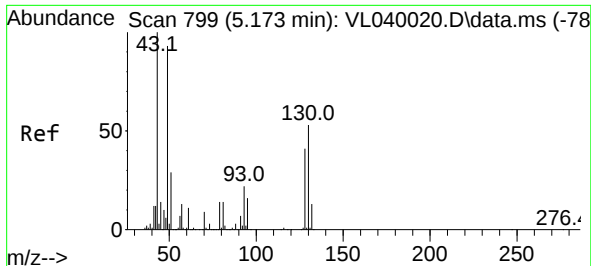
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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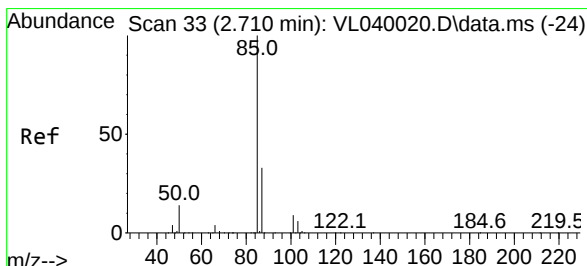
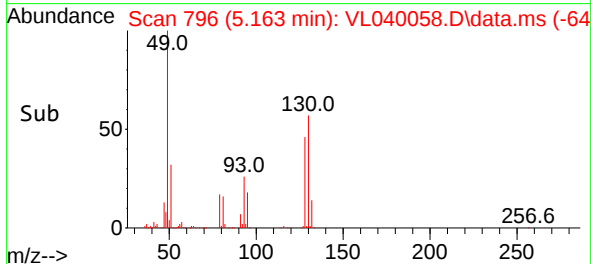
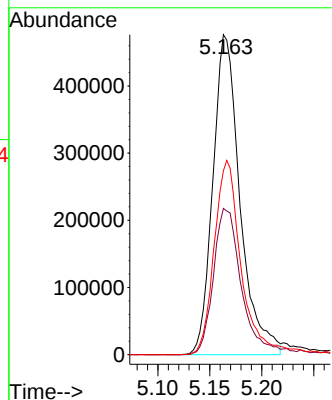
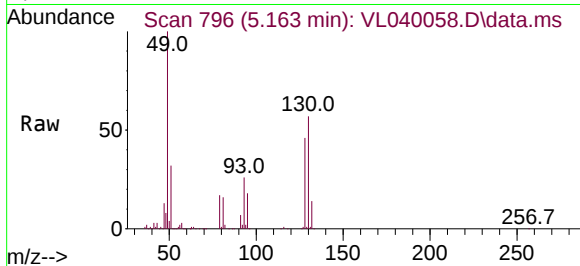




#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.163 min Scan# 799
Delta R.T. -0.010 min
Lab File: VL040058.D
Acq: 20 Dec 2022 16:00

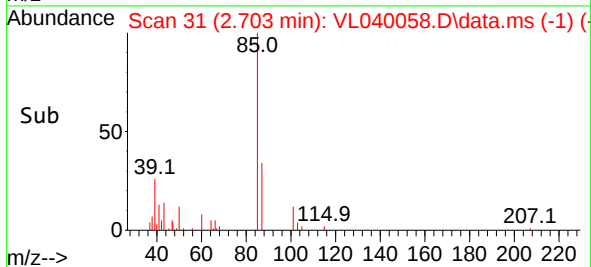
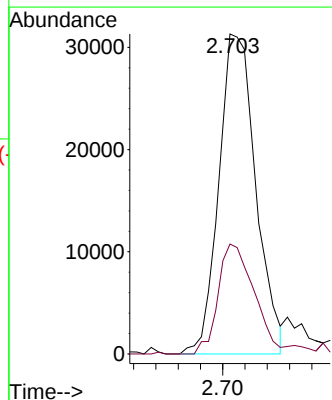
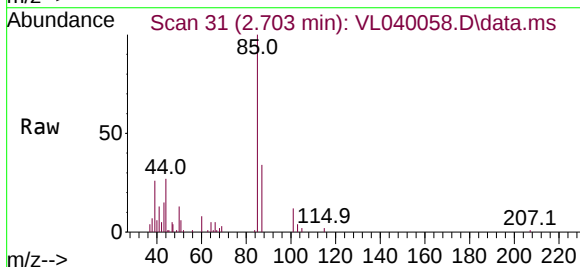
Instrument :
MSVOA_L
ClientSampleId :
IA-2

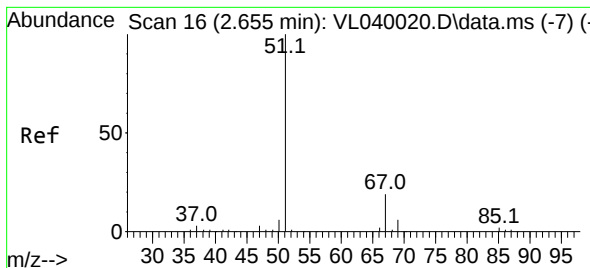
Tgt Ion: 49 Resp: 865020
Ion Ratio Lower Upper
49 100
128 49.2 22.4 67.3
130 61.8 28.9 86.8



#2
Dichlorodifluoromethane
Concen: 0.223 ppbv
RT: 2.703 min Scan# 31
Delta R.T. -0.006 min
Lab File: VL040058.D
Acq: 20 Dec 2022 16:00

Tgt Ion: 85 Resp: 36043
Ion Ratio Lower Upper
85 100
87 34.3 26.6 40.0





#3

Chlorodifluoromethane

Concen: 0.157 ppbv

RT: 2.652 min Scan# 11

Delta R.T. -0.003 min

Lab File: VL040058.D

Acq: 20 Dec 2022 16:00

Instrument :

MSVOA_L

ClientSampleId :

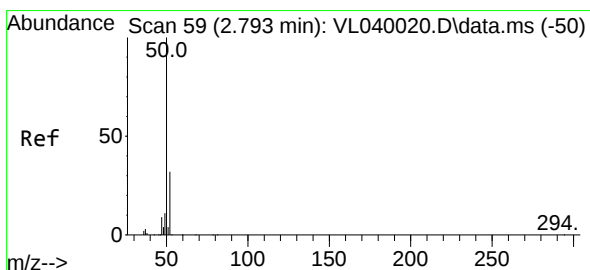
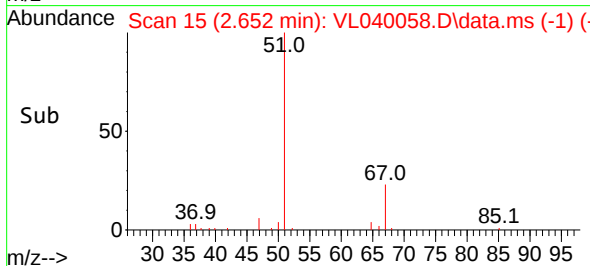
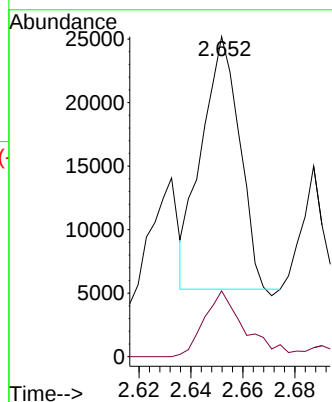
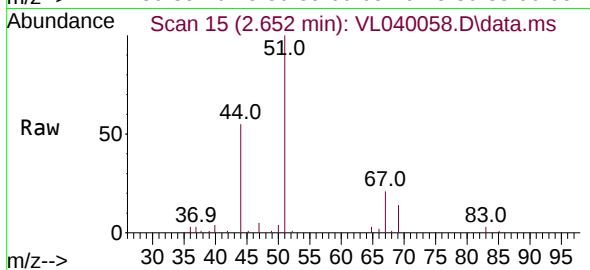
IA-2

Tgt Ion: 51 Resp: 20091

Ion Ratio Lower Upper

51 100

67 32.4 15.3 22.9#



#4

Chloromethane

Concen: 0.385 ppbv

RT: 2.790 min Scan# 58

Delta R.T. -0.003 min

Lab File: VL040058.D

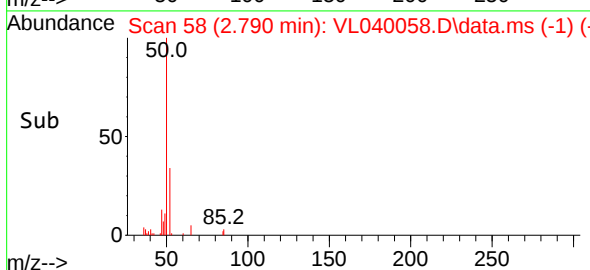
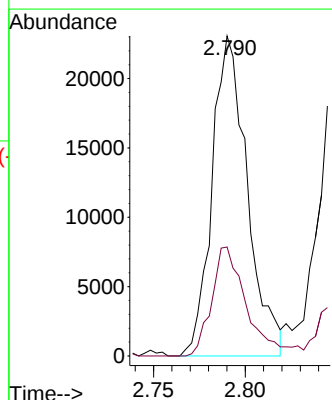
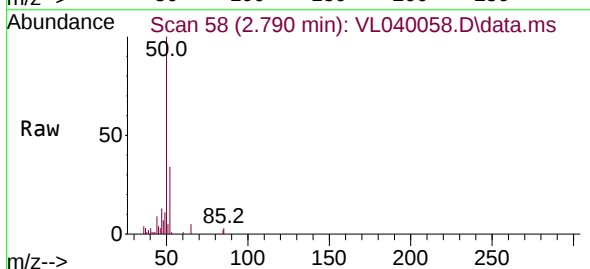
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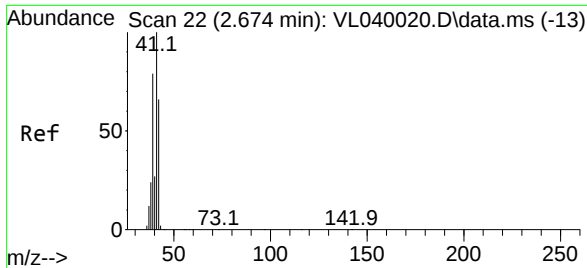
Tgt Ion: 50 Resp: 30794

Ion Ratio Lower Upper

50 100

52 34.0 25.5 38.3

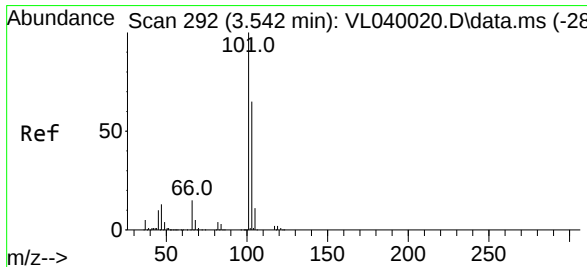
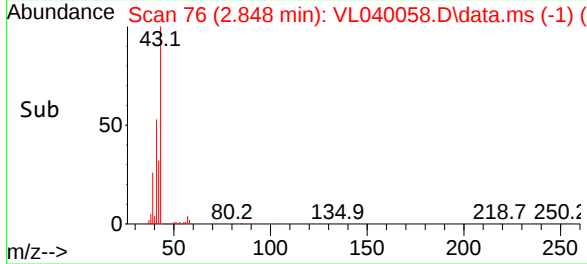
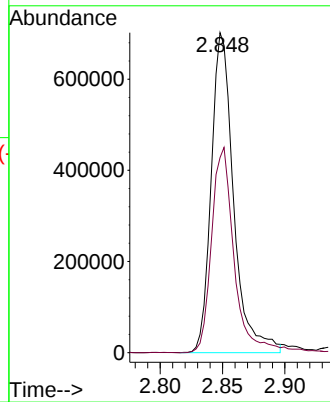
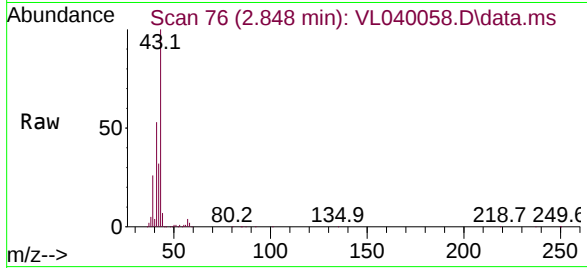




#9
Propene
Concen: 16.243 ppbv
RT: 2.848 min Scan# 70
Delta R.T. 0.174 min
Lab File: VL040058.D
Acq: 20 Dec 2022 16:00

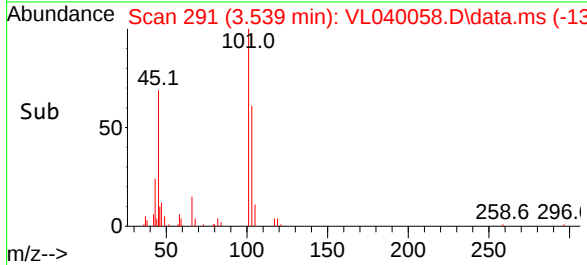
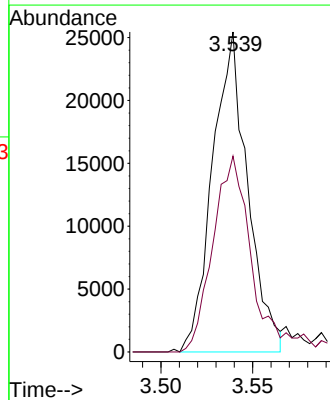
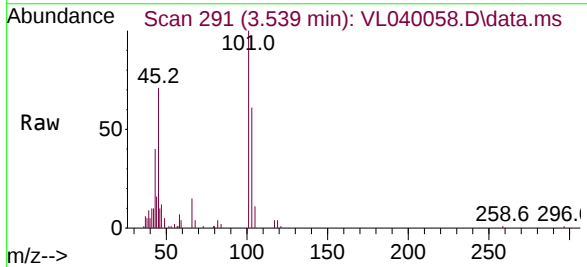
Instrument :
MSVOA_L
ClientSampleId :
IA-2

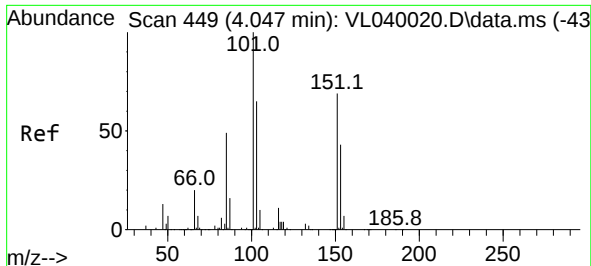
Tgt Ion: 41 Resp: 879776
Ion Ratio Lower Upper
41 100
42 65.7 54.8 82.2



#11
Trichlorofluoromethane
Concen: 0.192 ppbv
RT: 3.539 min Scan# 291
Delta R.T. -0.003 min
Lab File: VL040058.D
Acq: 20 Dec 2022 16:00

Tgt Ion: 101 Resp: 33757
Ion Ratio Lower Upper
101 100
103 61.2 51.7 77.5





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.064 ppbv

RT: 4.041 min Scan# 449

Delta R.T. -0.006 min

Lab File: VL040058.D

Acq: 20 Dec 2022 16:00

Instrument :

MSVOA_L

ClientSampleId :

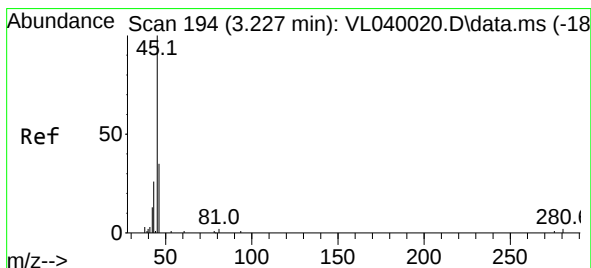
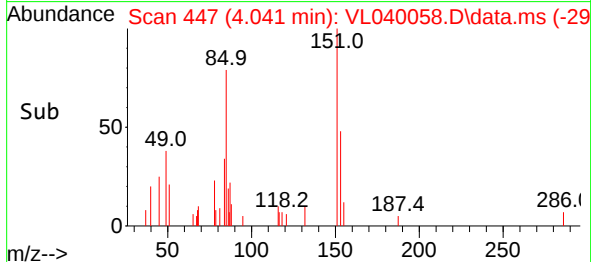
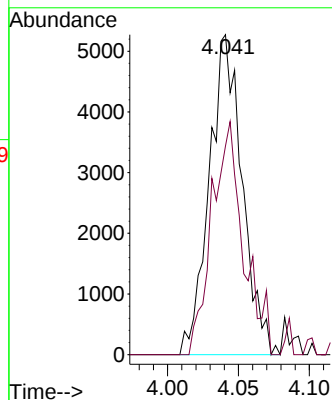
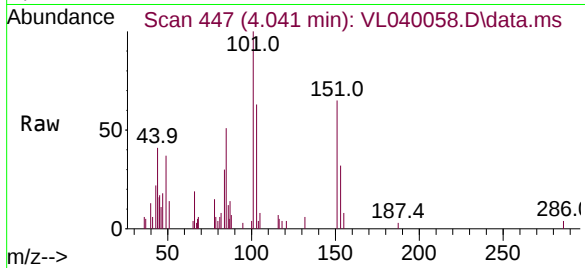
IA-2

Tgt Ion:101 Resp: 8530

Ion Ratio Lower Upper

101 100

151 71.5 55.0 82.4



#13

Ethanol

Concen: 559.985 ppbv

RT: 3.211 min Scan# 189

Delta R.T. -0.016 min

Lab File: VL040058.D

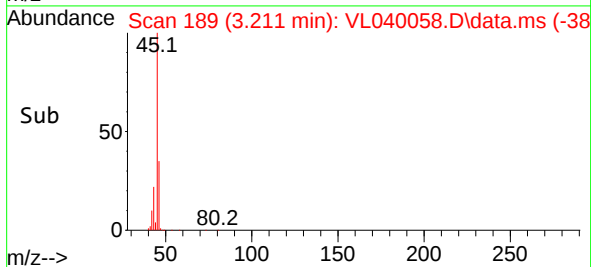
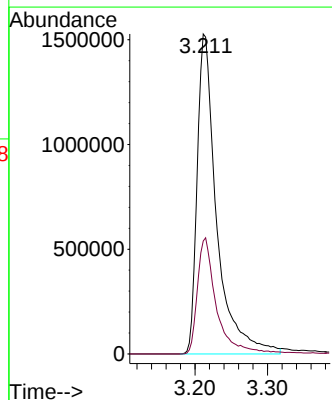
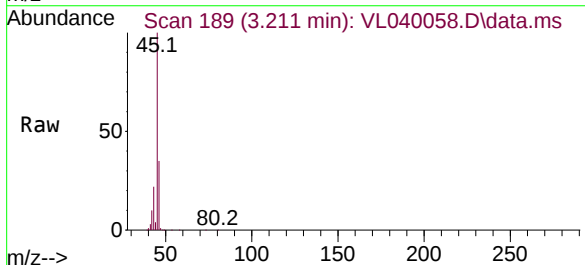
Acq: 20 Dec 2022 16:00

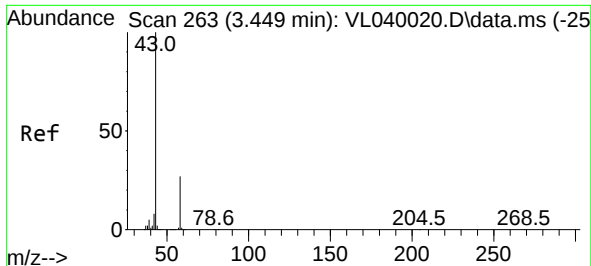
Tgt Ion: 45 Resp: 2854617

Ion Ratio Lower Upper

45 100

46 36.2 13.7 54.7

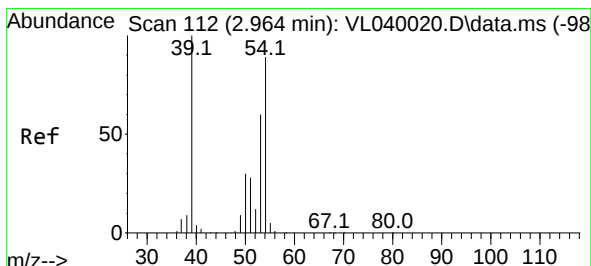
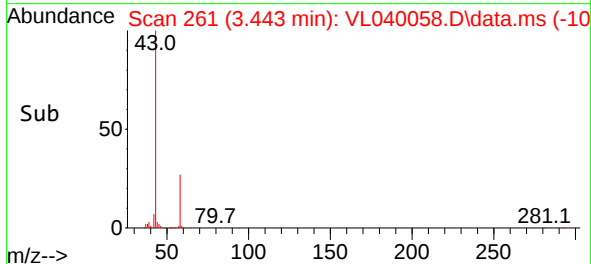
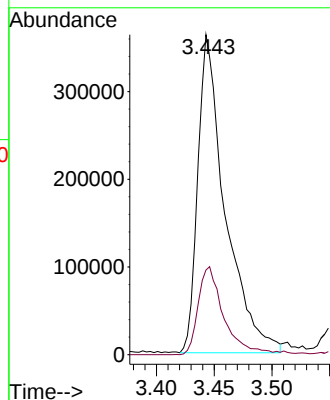
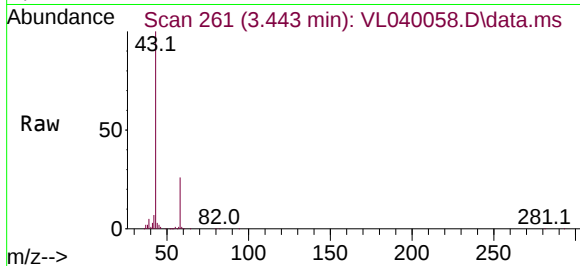




#15
Acetone
Concen: 4.475 ppbv
RT: 3.443 min Scan# 21
Delta R.T. -0.006 min
Lab File: VL040058.D
Acq: 20 Dec 2022 16:00

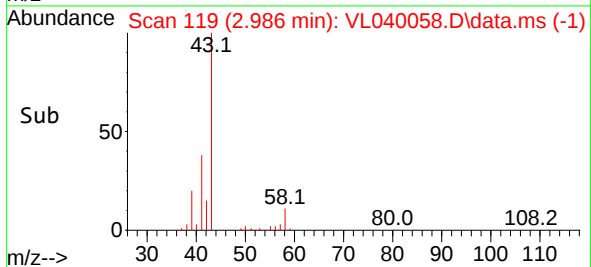
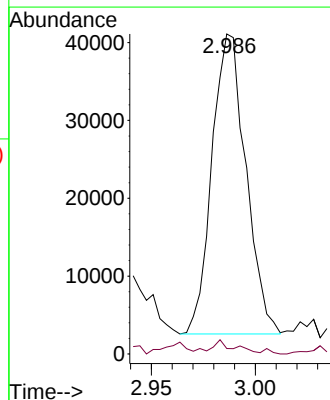
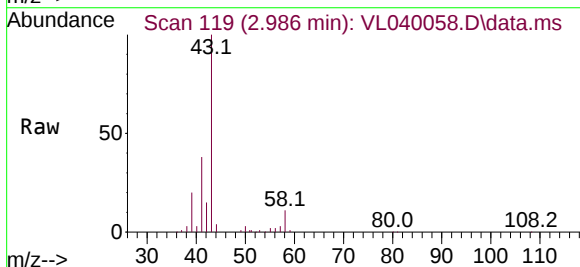
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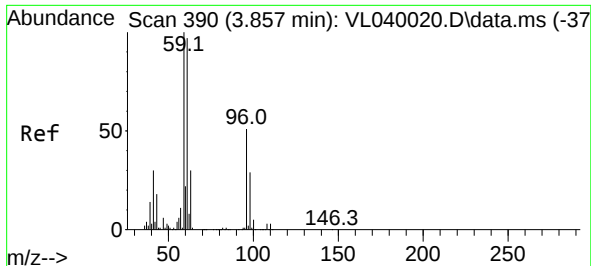
Tgt Ion: 43 Resp: 598797
Ion Ratio Lower Upper
43 100
58 26.4 21.8 32.8



#16
1,3-Butadiene
Concen: 0.752 ppbv
RT: 2.986 min Scan# 119
Delta R.T. 0.023 min
Lab File: VL040058.D
Acq: 20 Dec 2022 16:00

Tgt Ion: 39 Resp: 43733
Ion Ratio Lower Upper
39 100
54 7.4 68.3 102.5#





#17

tert-Butyl alcohol

Concen: 0.050 ppbv

RT: 3.870 min Scan# 390

Delta R.T. 0.013 min

Lab File: VL040058.D

Acq: 20 Dec 2022 16:00

Instrument :

MSVOA_L

ClientSampleId :

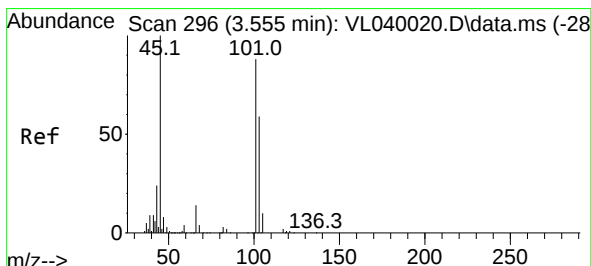
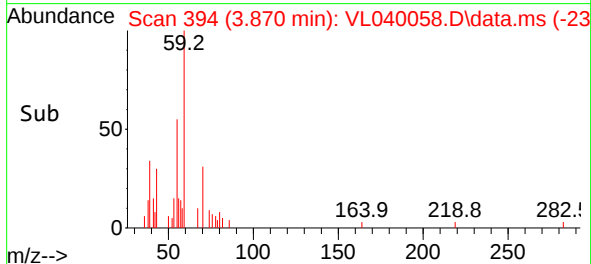
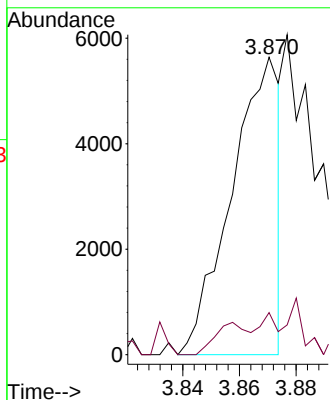
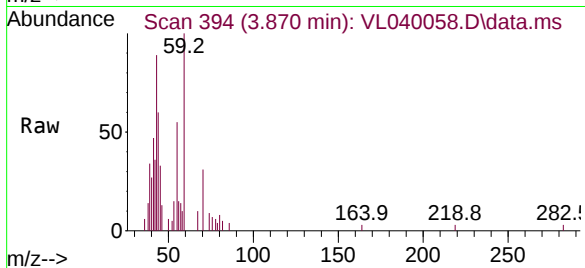
IA-2

Tgt Ion: 59 Resp: 6620

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#19

Isopropyl Alcohol

Concen: 3.375 ppbv

RT: 3.559 min Scan# 297

Delta R.T. 0.003 min

Lab File: VL040058.D

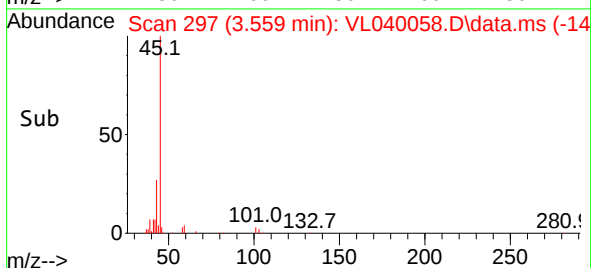
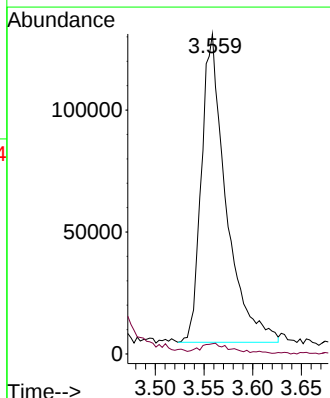
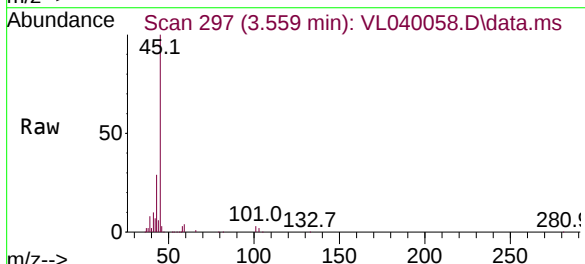
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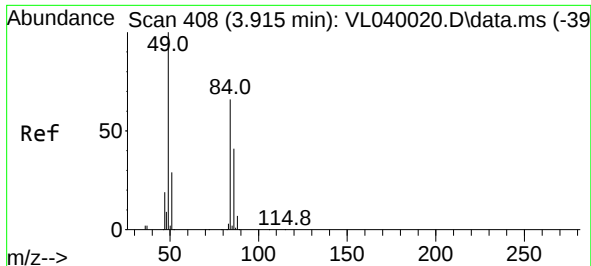
Tgt Ion: 45 Resp: 222586

Ion Ratio Lower Upper

45 100

58 4.9 1.7 2.5#

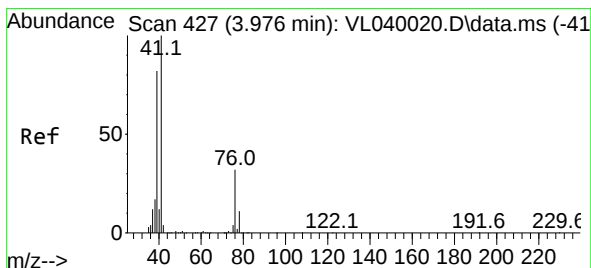
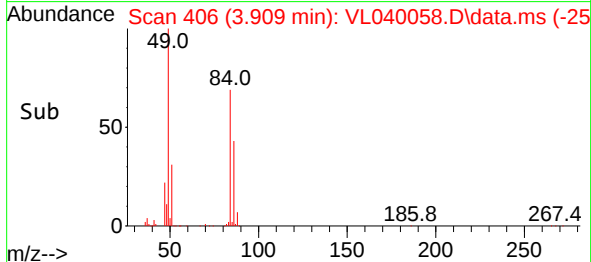
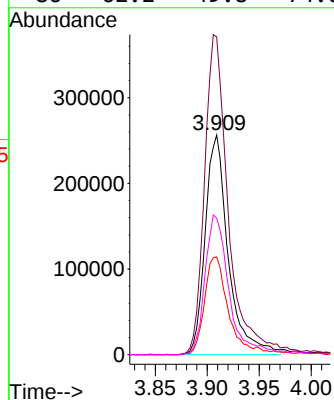
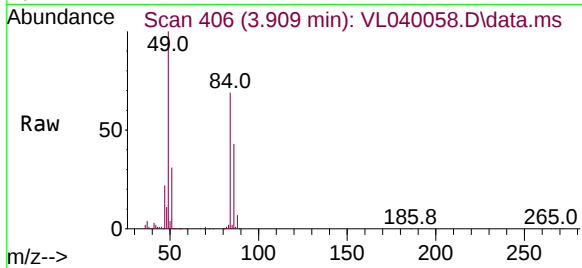




#20
Methylene Chloride
Concen: 6.986 ppbv
RT: 3.909 min Scan# 40
Delta R.T. -0.006 min
Lab File: VL040058.D
Acq: 20 Dec 2022 16:00

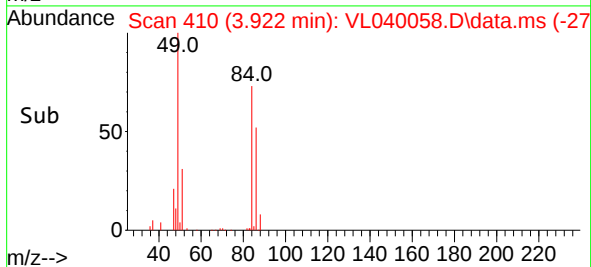
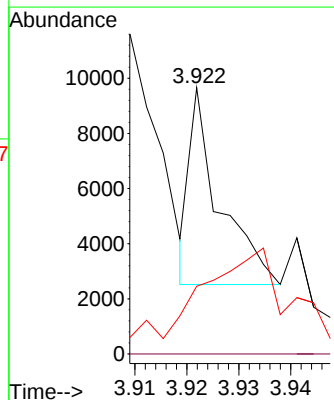
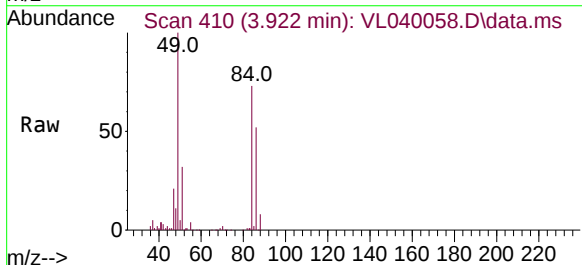
Instrument :
MSVOA_L
ClientSampleId :
IA-2

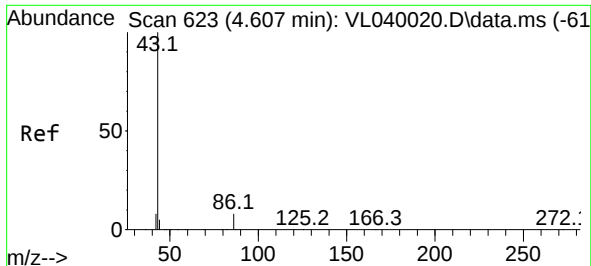
Tgt Ion: 84 Resp: 397340
Ion Ratio Lower Upper
84 100
49 144.5 120.5 180.7
51 44.3 35.2 52.8
86 62.2 49.8 74.6



#21
Allyl Chloride
Concen: 0.035 ppbv
RT: 3.922 min Scan# 410
Delta R.T. -0.055 min
Lab File: VL040058.D
Acq: 20 Dec 2022 16:00

Tgt Ion: 41 Resp: 2853
Ion Ratio Lower Upper
41 100
76 43.6 25.9 38.9#
39 185.1 66.0 99.0#

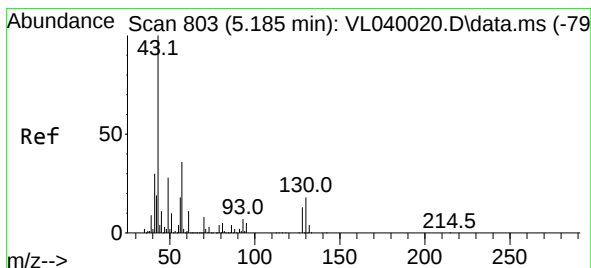
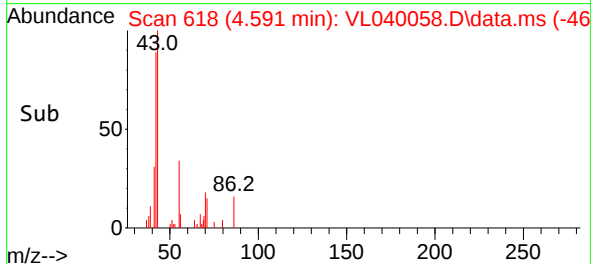
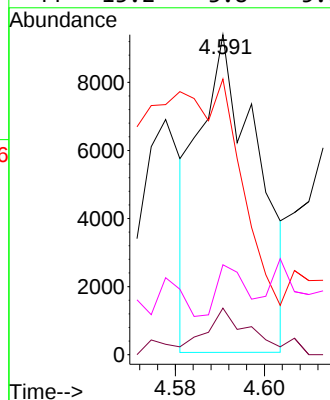
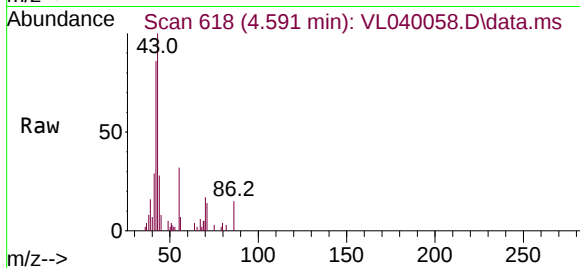




#23
 Vinyl Acetate
 Concen: 0.202 ppbv
 RT: 4.591 min Scan# 61
 Delta R.T. -0.016 min
 Lab File: VL040058.D
 Acq: 20 Dec 2022 16:00

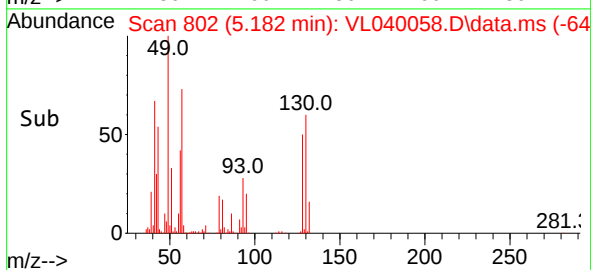
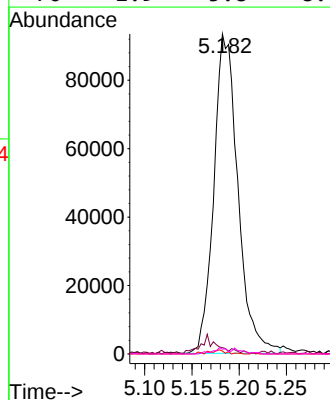
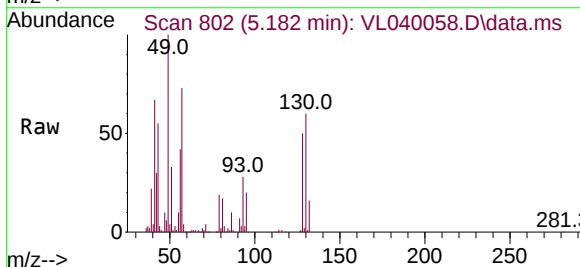
Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

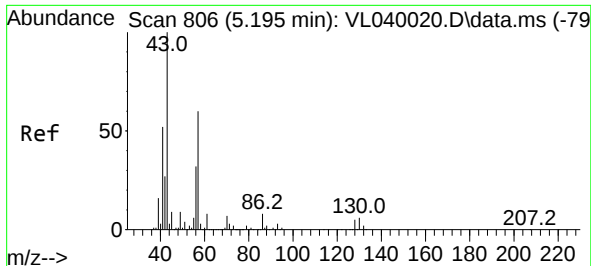
Tgt Ion: 43	Resp: 8587
Ion Ratio	Lower Upper
43 100	
86 20.8	5.3 7.9#
42 121.5	7.4 11.0#
44 13.2	3.8 5.6#



#25
 Ethyl Acetate
 Concen: 0.712 ppbv
 RT: 5.182 min Scan# 802
 Delta R.T. -0.003 min
 Lab File: VL040058.D
 Acq: 20 Dec 2022 16:00

Tgt	Ion: 43	Resp:	165095
Ion	Ratio	Lower	Upper
43	100		
45	4.9	8.6	12.8#
61	0.8	8.5	12.7#
70	1.9	5.8	8.8#



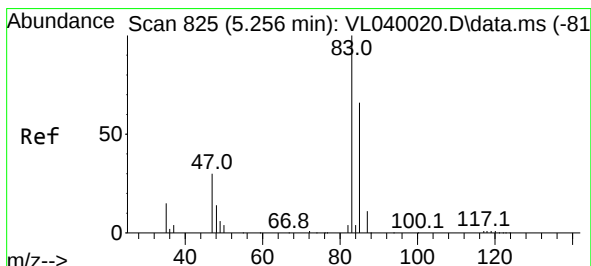
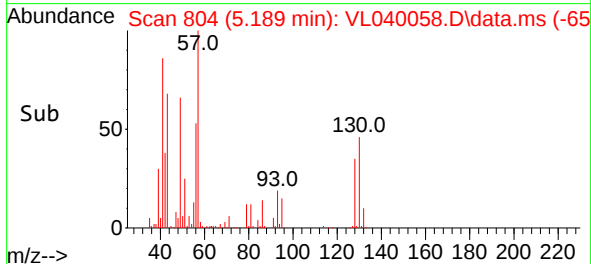
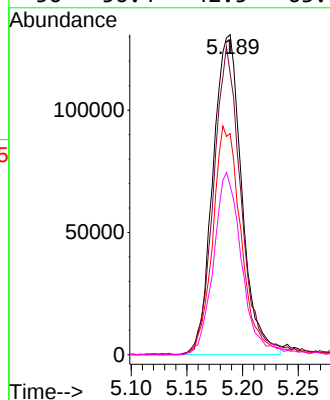
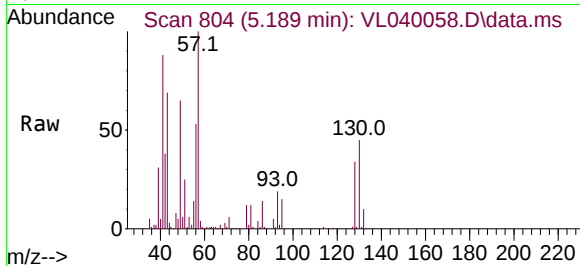


#26
Hexane
Concen: 2.420 ppbv
RT: 5.189 min Scan# 806
Delta R.T. -0.006 min
Lab File: VL040058.D
Acq: 20 Dec 2022 16:00

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tgt Ion: 57 Resp: 235715

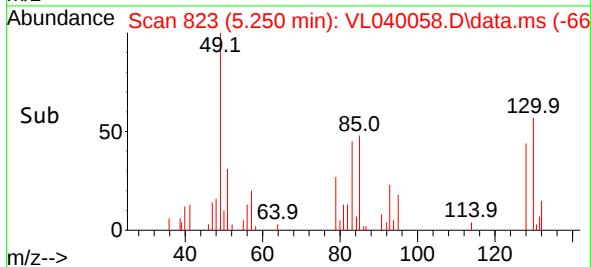
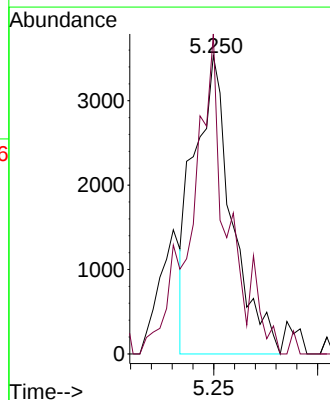
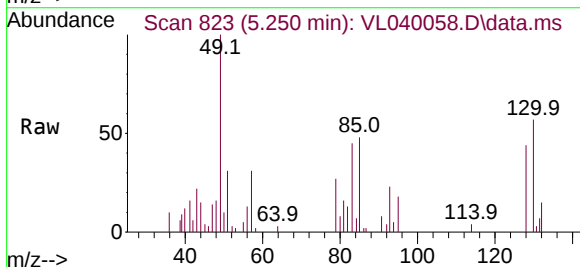
Ion	Ratio	Lower	Upper
57	100		
41	93.3	72.1	108.1
43	72.6	192.1	288.1#
56	56.4	42.5	63.7

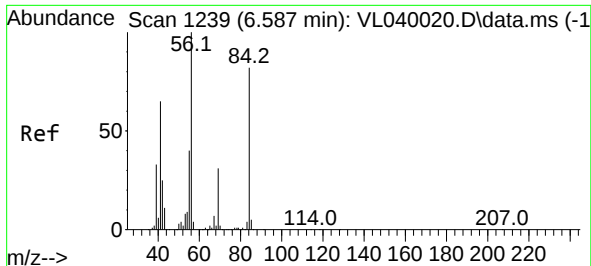


#29
Chloroform
Concen: 0.030 ppbv
RT: 5.250 min Scan# 823
Delta R.T. -0.006 min
Lab File: VL040058.D
Acq: 20 Dec 2022 16:00

Tgt Ion: 83 Resp: 4494

Ion	Ratio	Lower	Upper
83	100		
85	107.2	52.4	78.6#





#30

Cyclohexane

Concen: 0.036 ppbv

RT: 6.568 min Scan# 11

Delta R.T. -0.019 min

Lab File: VL040058.D

Acq: 20 Dec 2022 16:00

Instrument :

MSVOA_L

ClientSampleId :

IA-2

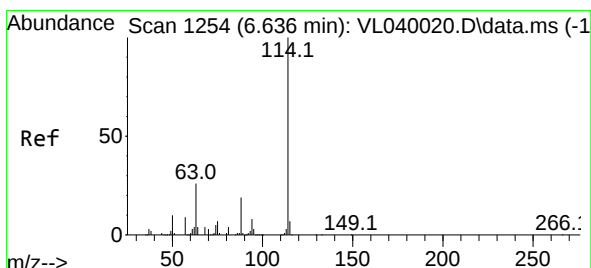
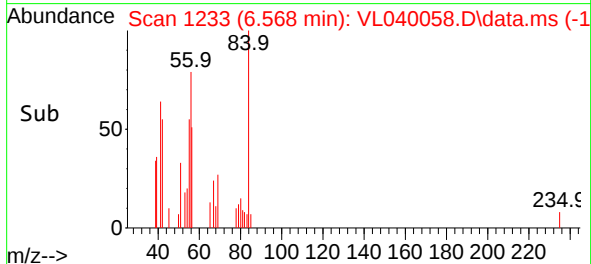
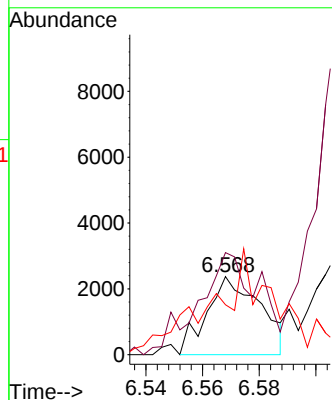
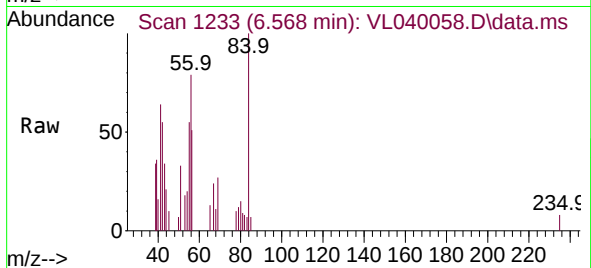
Tgt Ion: 84 Resp: 3104

Ion Ratio Lower Upper

84 100

56 149.6 110.2 165.4

41 192.4 67.8 101.8#



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.623 min Scan# 1250

Delta R.T. -0.013 min

Lab File: VL040058.D

Acq: 20 Dec 2022 16:00

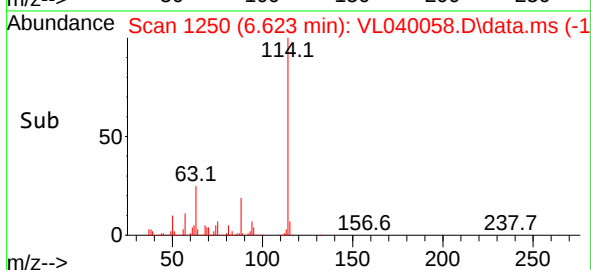
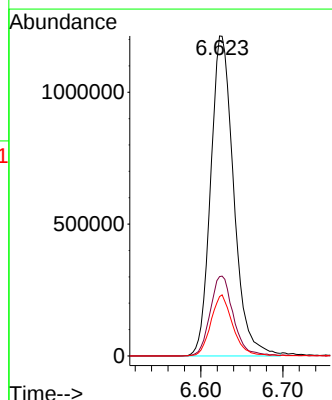
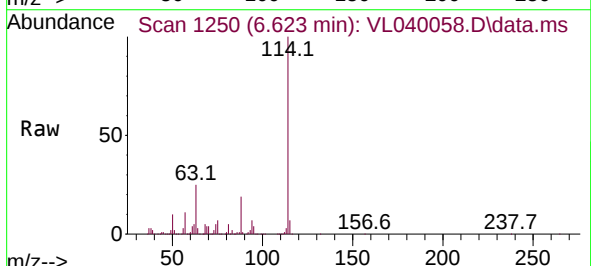
Tgt Ion: 114 Resp: 2369175

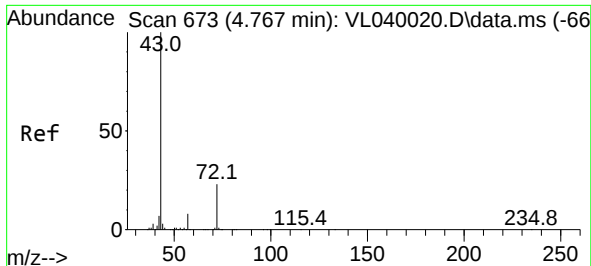
Ion Ratio Lower Upper

114 100

63 25.3 20.2 30.2

88 18.3 14.6 21.8

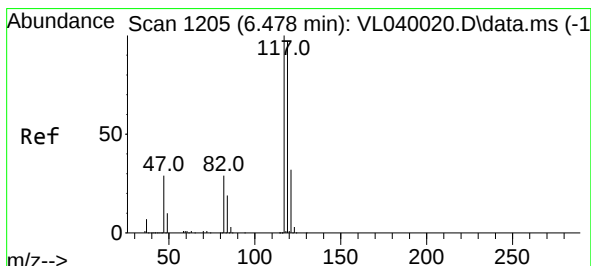
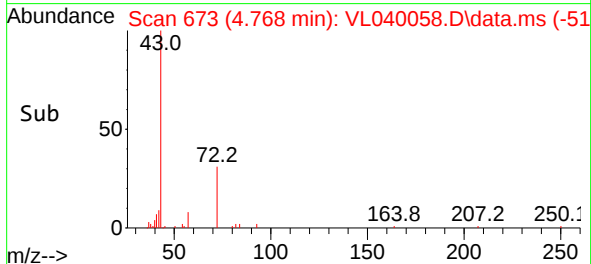
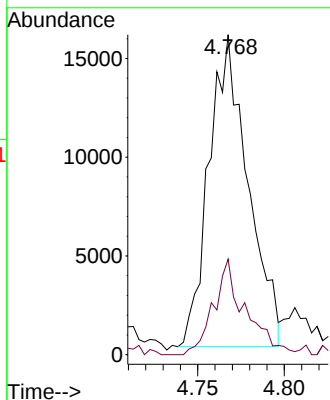
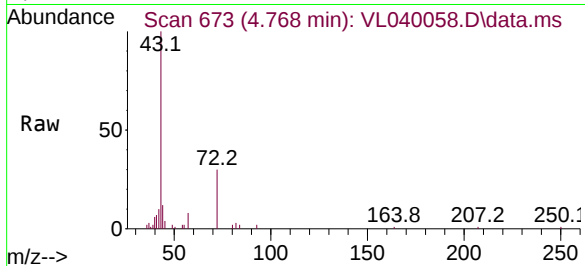




#34
2-Butanone
Concen: 0.193 ppbv
RT: 4.768 min Scan# 61
Delta R.T. 0.000 min
Lab File: VL040058.D
Acq: 20 Dec 2022 16:00

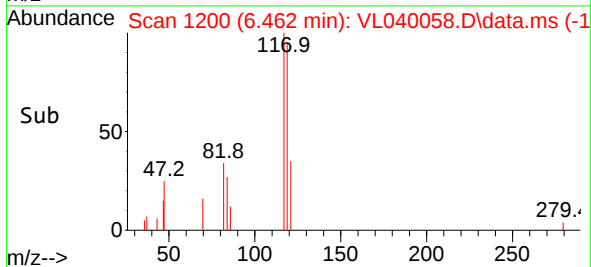
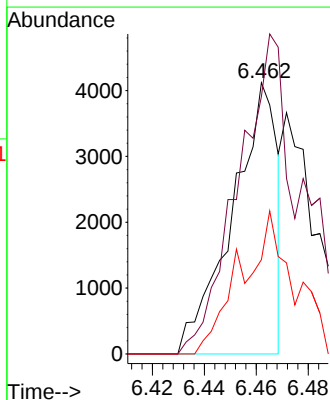
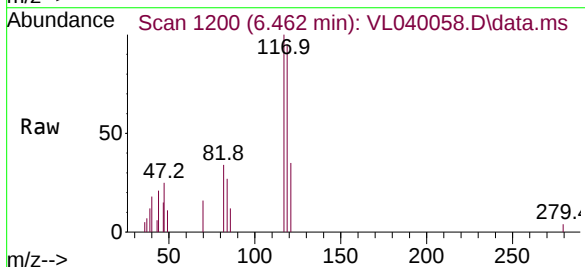
Instrument :
MSVOA_L
ClientSampleId :
IA-2

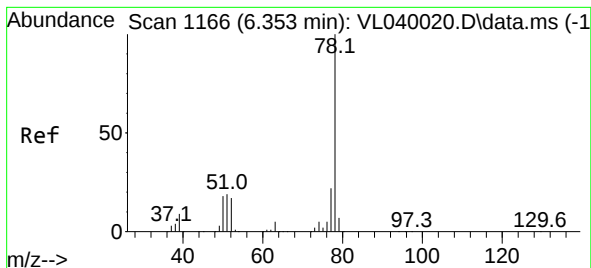
Tgt Ion: 43 Resp: 24753
Ion Ratio Lower Upper
43 100
72 25.5 18.0 27.0



#35
Carbon Tetrachloride
Concen: 0.034 ppbv
RT: 6.462 min Scan# 1200
Delta R.T. -0.016 min
Lab File: VL040058.D
Acq: 20 Dec 2022 16:00

Tgt Ion: 117 Resp: 4933
Ion Ratio Lower Upper
117 100
119 94.9 77.3 115.9
121 34.7 25.4 38.0





#36

Benzene

Concen: 0.148 ppbv

RT: 6.340 min Scan# 1166

Delta R.T. -0.013 min

Lab File: VL040058.D

Acq: 20 Dec 2022 16:00

Instrument :

MSVOA_L

ClientSampleId :

IA-2

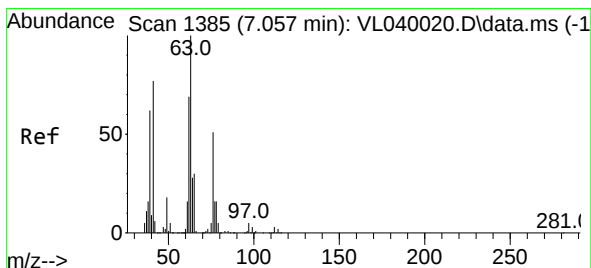
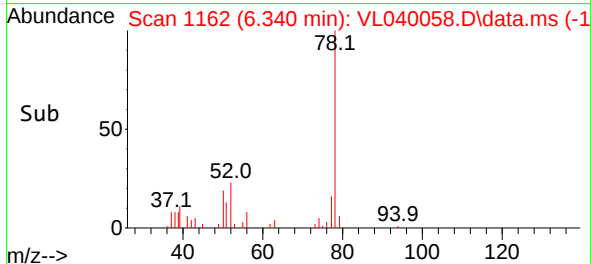
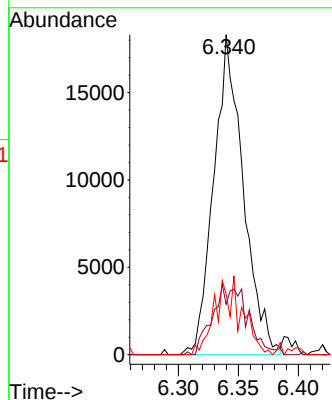
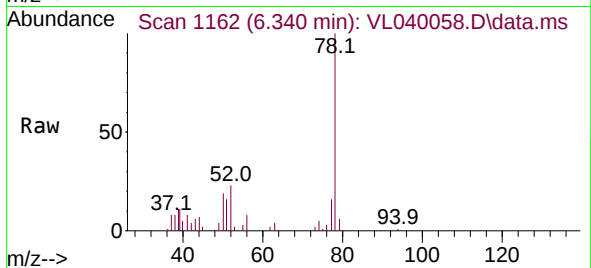
Tgt Ion: 78 Resp: 31349

Ion Ratio Lower Upper

78 100

77 15.8 17.5 26.3#

50 19.0 14.2 21.2



#39

1,2-Dichloropropane

Concen: 7.475 ppbv

RT: 6.626 min Scan# 1251

Delta R.T. -0.431 min

Lab File: VL040058.D

Acq: 20 Dec 2022 16:00

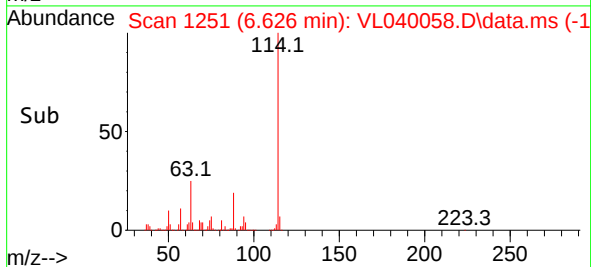
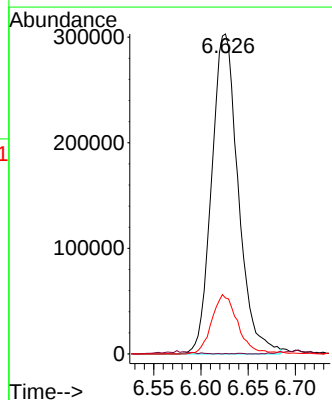
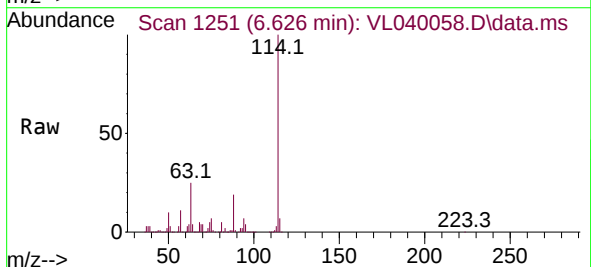
Tgt Ion: 63 Resp: 592810

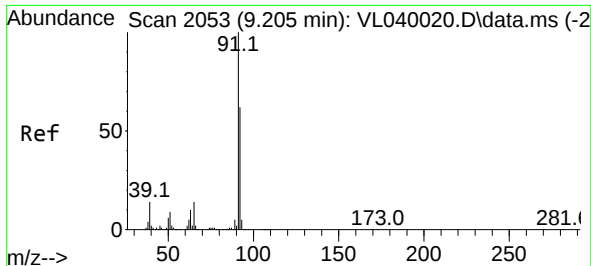
Ion Ratio Lower Upper

63 100

41 0.0 61.4 92.0#

62 17.5 55.4 83.2#

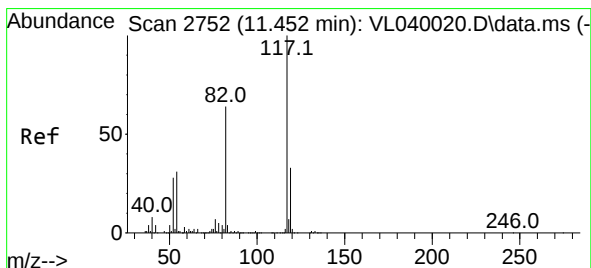
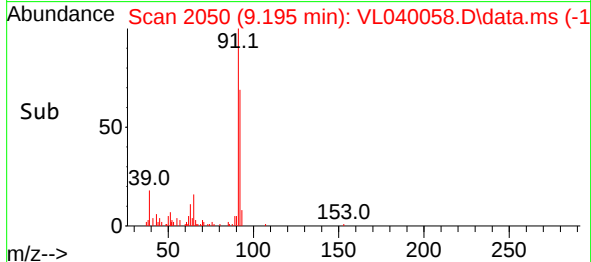
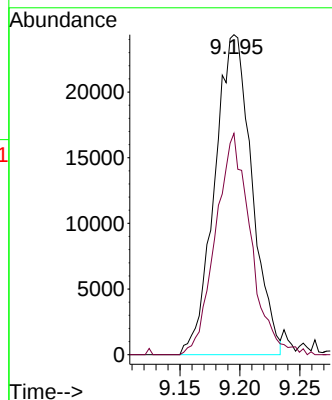
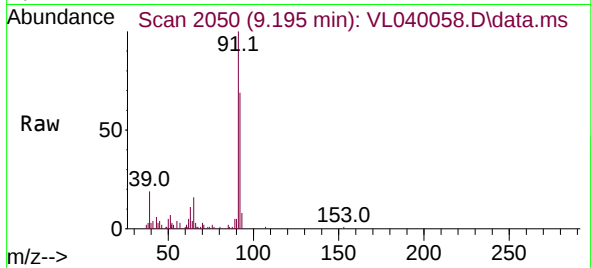




#53
Toluene
Concen: 0.225 ppbv
RT: 9.195 min Scan# 2053
Delta R.T. -0.010 min
Lab File: VL040058.D
Acq: 20 Dec 2022 16:00

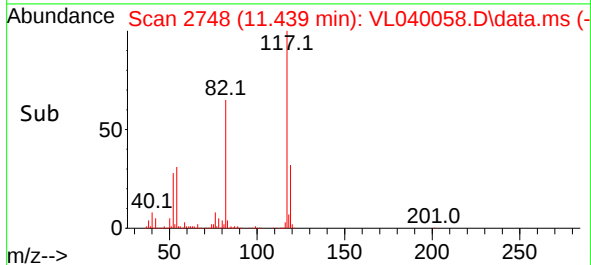
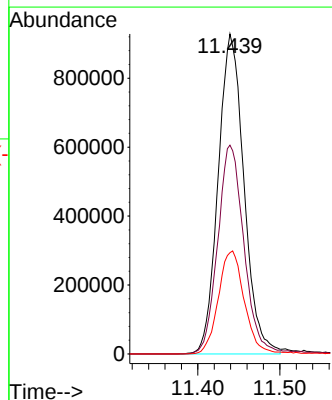
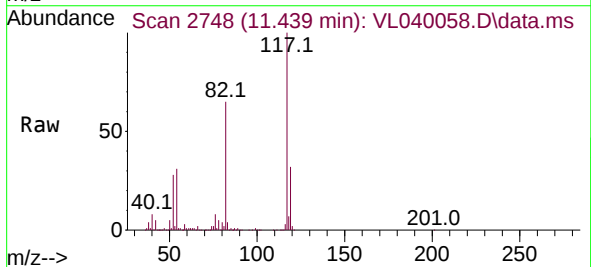
Instrument :
MSVOA_L
ClientSampleId :
IA-2

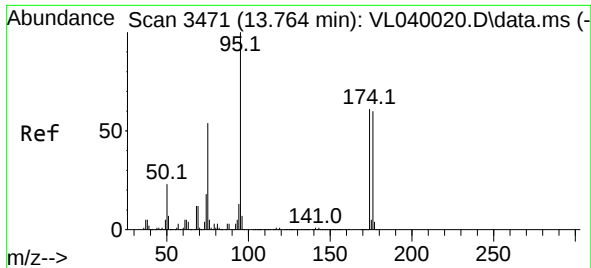
Tgt Ion: 91 Resp: 52698
Ion Ratio Lower Upper
91 100
92 65.3 48.7 73.1



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.439 min Scan# 2748
Delta R.T. -0.013 min
Lab File: VL040058.D
Acq: 20 Dec 2022 16:00

Tgt Ion: 117 Resp: 2030285
Ion Ratio Lower Upper
117 100
82 67.5 51.2 76.8
119 32.8 23.2 34.8





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.001 ppbv
 RT: 13.751 min Scan# 34
 Delta R.T. -0.013 min
 Lab File: VL040058.D
 Acq: 20 Dec 2022 16:00

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Tgt Ion: 95 Resp: 1550993
 Ion Ratio Lower Upper
 95 100
 174 61.1 48.6 73.0
 175 4.2 3.4 5.2

