

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121922\
 Data File : VL040033.D
 Acq On : 19 Dec 2022 18:12
 Operator : SY/MD
 Sample : N6059-02DL 4X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 20 05:14:20 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)

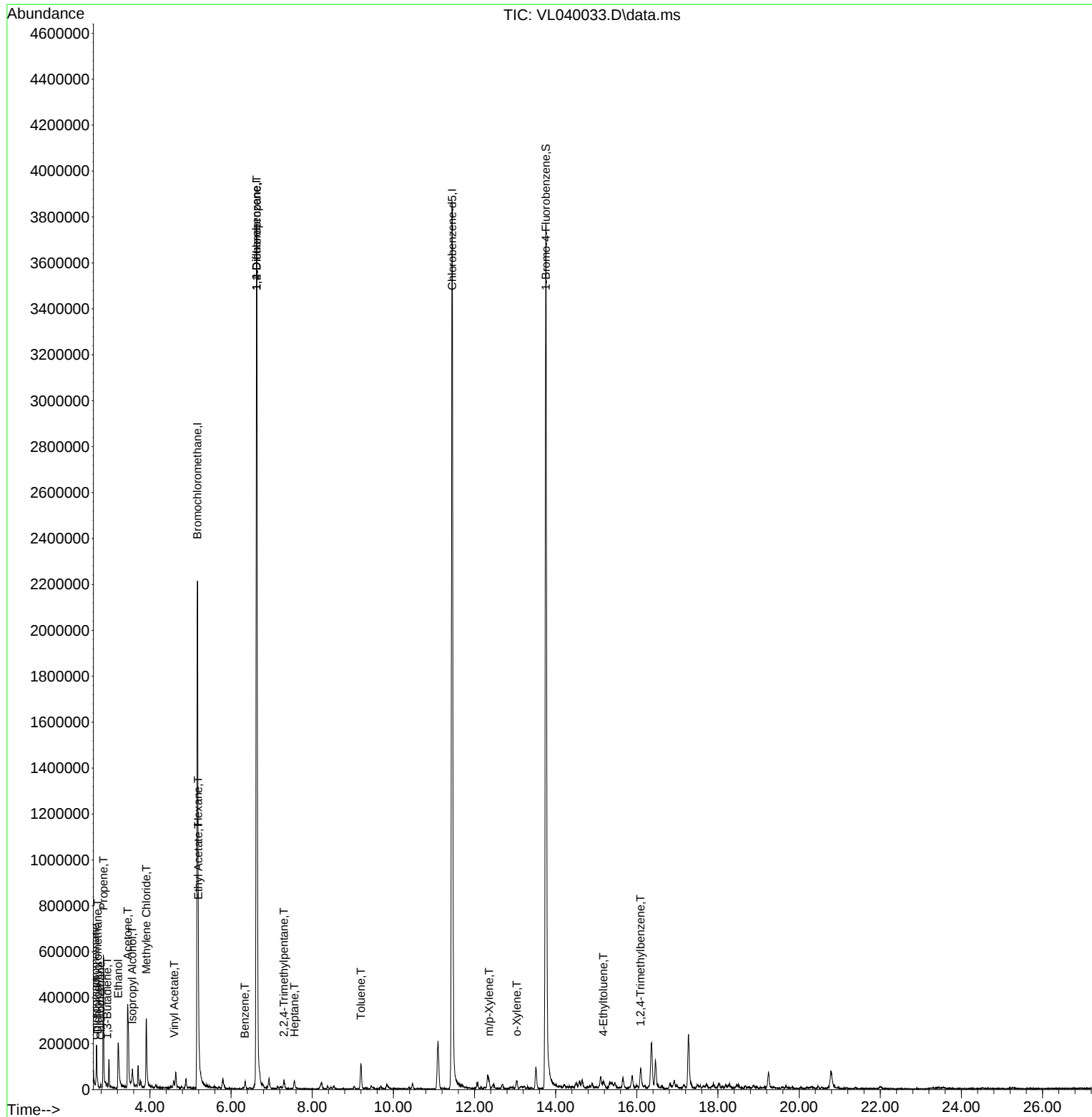
Internal Standards						
1) Bromochloromethane	5.169	49	1093073	10.000	ppbv	0.00
33) 1,4-Difluorobenzene	6.629	114	3012313	10.000	ppbv	0.00
55) Chlorobenzene-d5	11.449	117	2602650	10.000	ppbv	0.00
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.757	95	1966174	9.890	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.900%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	2.710	85	16785	0.082	ppbv	90
3) Chlorodifluoromethane	2.655	51	8969	0.056	ppbv	99
4) Chloromethane	2.793	50	9191	0.091	ppbv	90
9) Propene	2.851	41	153258	2.239	ppbv	99
10) Heptane	7.558	43	13862	0.083	ppbv	89
13) Ethanol	3.218	45	220004	34.154	ppbv	89
15) Acetone	3.452	43	398117	2.354	ppbv	97
16) 1,3-Butadiene	2.948	39	3675	0.050	ppbv #	35
19) Isopropyl Alcohol	3.568	45	79380	0.953	ppbv #	91
20) Methylene Chloride	3.912	84	95659	1.331	ppbv	88
23) Vinyl Acetate	4.597	43	4232	0.079	ppbv #	1
25) Ethyl Acetate	5.195	43	76800	0.262	ppbv #	87
26) Hexane	5.189	57	77947	0.633	ppbv #	49
36) Benzene	6.340	78	8987	0.033	ppbv	98
39) 1,2-Dichloropropane	6.632	63	736813	7.307	ppbv #	23
44) 2,2,4-Trimethylpentane	7.301	57	15800	0.036	ppbv #	15
53) Toluene	9.198	91	81993	0.275	ppbv	100
59) m/p-Xylene	12.359	91	10833	0.034	ppbv #	32
60) o-Xylene	13.040	91	14852	0.048	ppbv #	35
72) 4-Ethyltoluene	15.175	105	12316	0.036	ppbv #	61
74) 1,2,4-Trimethylbenzene	16.092	105	32132	0.094	ppbv #	69

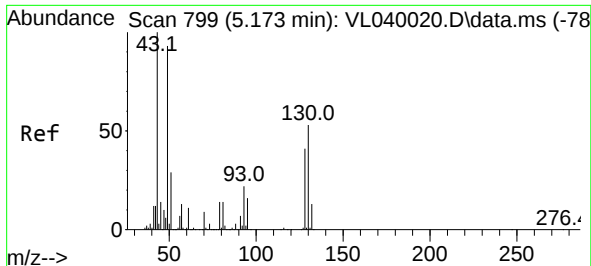
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL121922\
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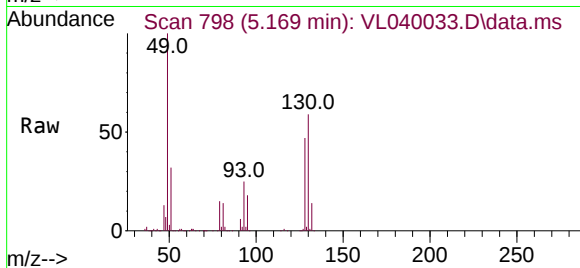
Quant Time: Dec 20 05:14:20 2022
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_L\methods\VL121922AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
QLast Update : Tue Dec 20 04:50:21 2022
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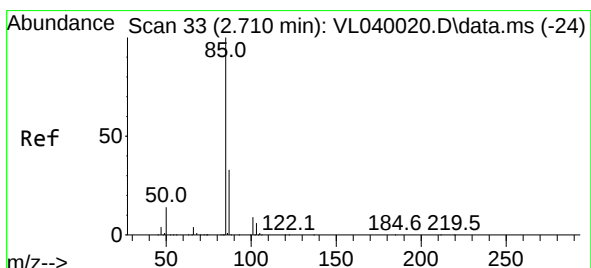
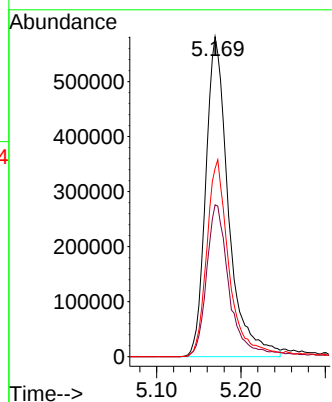
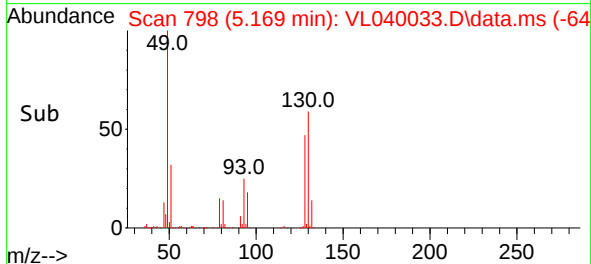


#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.169 min Scan# 799
 Delta R.T. -0.004 min
 Lab File: VL040033.D
 Acq: 19 Dec 2022 18:12

Instrument :
 MSVOA_L
 ClientSampleId :

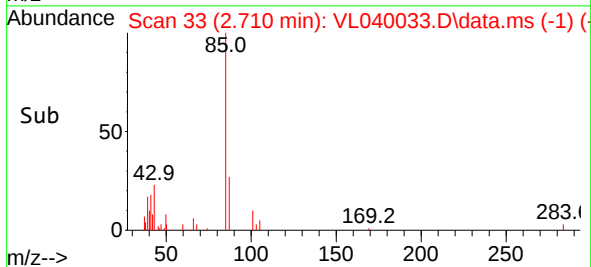
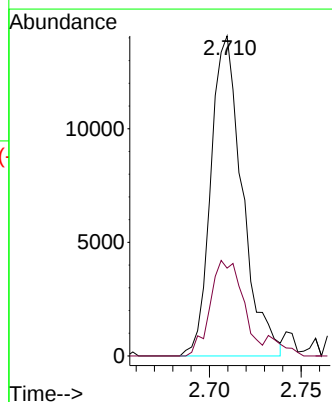
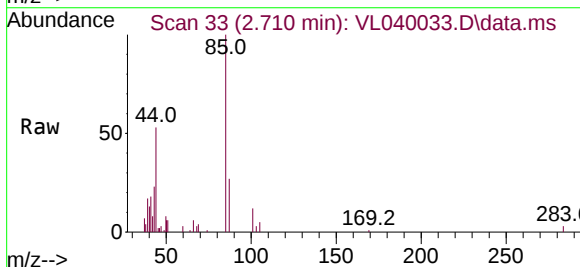


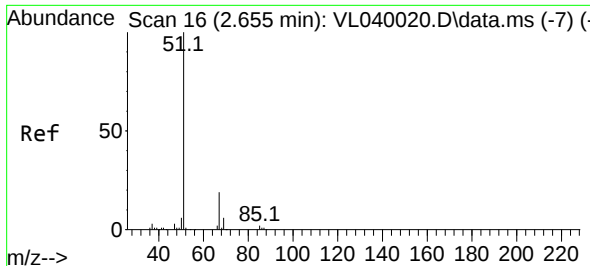
Tgt Ion: 49 Resp: 1093073
 Ion Ratio Lower Upper
 49 100
 128 48.7 22.4 67.3
 130 61.9 28.9 86.8



#2
 Dichlorodifluoromethane
 Concen: 0.082 ppbv
 RT: 2.710 min Scan# 33
 Delta R.T. 0.000 min
 Lab File: VL040033.D
 Acq: 19 Dec 2022 18:12

Tgt Ion: 85 Resp: 16785
 Ion Ratio Lower Upper
 85 100
 87 27.5 26.6 40.0

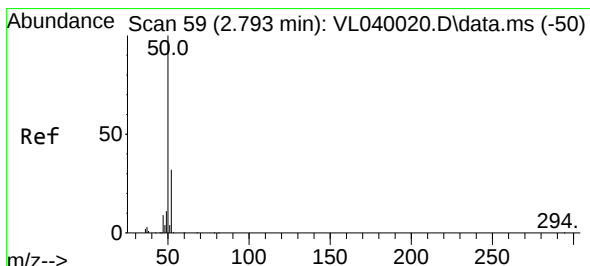
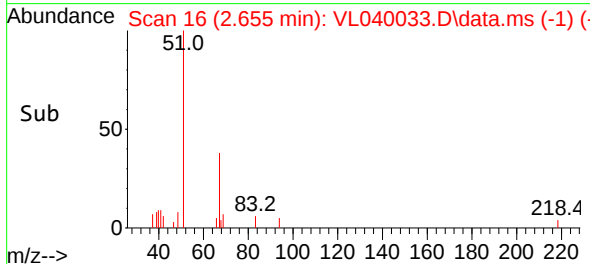
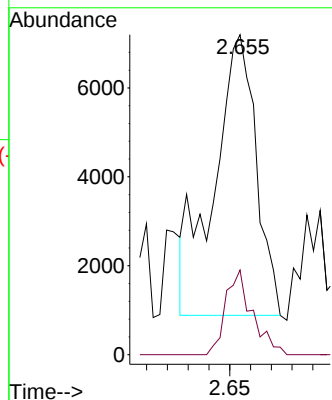
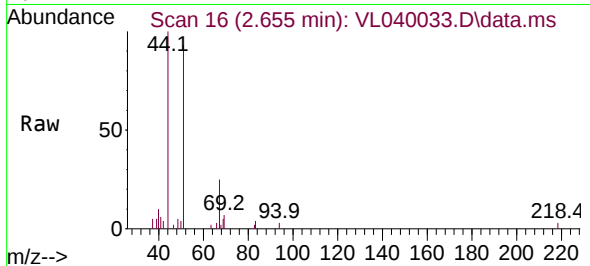




#3
Chlorodifluoromethane
Concen: 0.056 ppbv
RT: 2.655 min Scan# 1
Delta R.T. 0.000 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

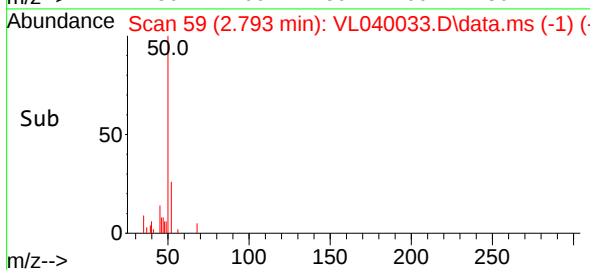
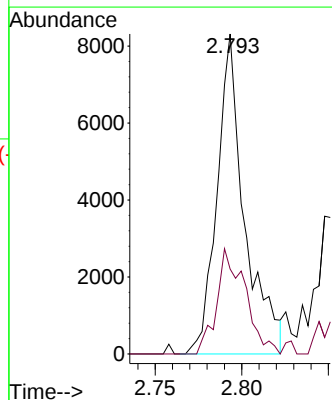
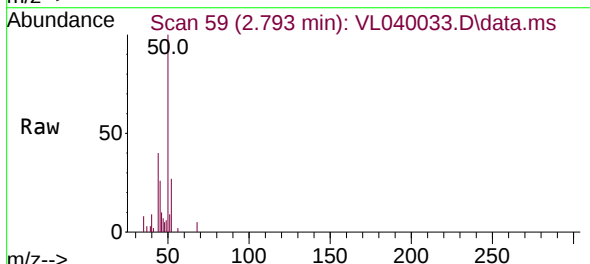
Instrument :
MSVOA_L
ClientSampleId :

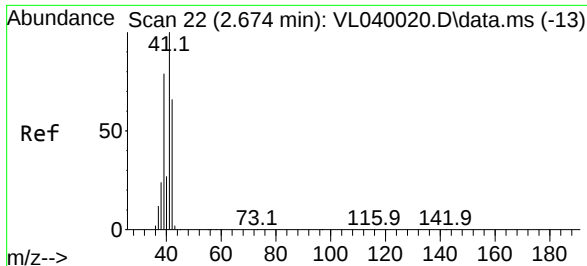
Tgt Ion: 51 Resp: 8969
Ion Ratio Lower Upper
51 100
67 18.8 15.3 22.9



#4
Chloromethane
Concen: 0.091 ppbv
RT: 2.793 min Scan# 59
Delta R.T. 0.000 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

Tgt Ion: 50 Resp: 9191
Ion Ratio Lower Upper
50 100
52 26.6 25.5 38.3

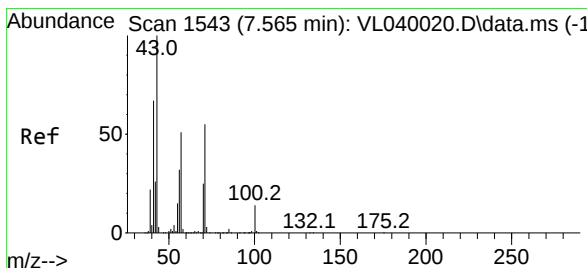
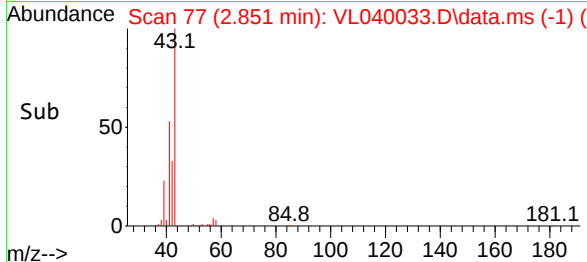
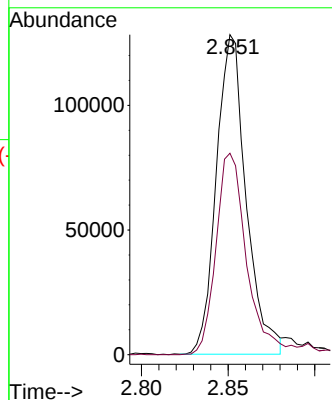
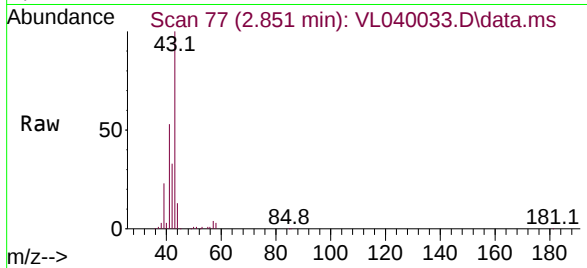




#9
 Propene
 Concen: 2.239 ppbv
 RT: 2.851 min Scan# 71
 Delta R.T. 0.177 min
 Lab File: VL040033.D
 Acq: 19 Dec 2022 18:12

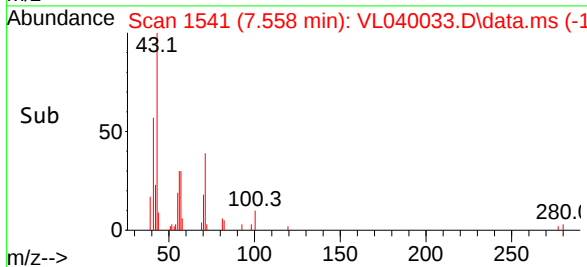
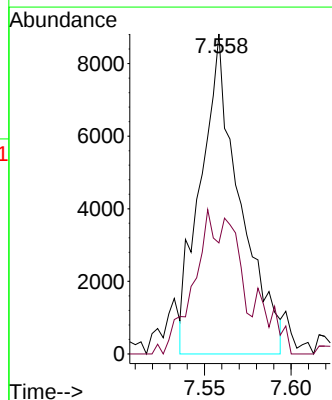
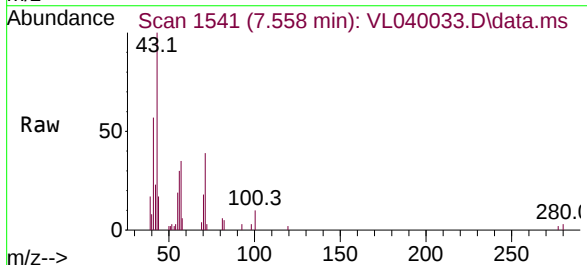
Instrument :
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 ClientSampleId :

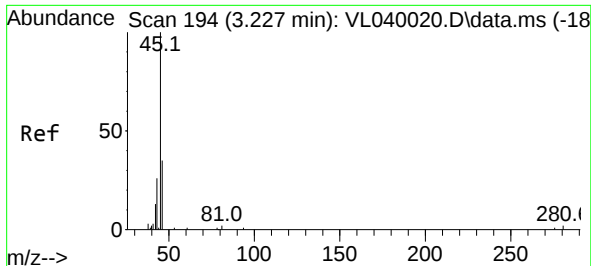
Tgt Ion: 41 Resp: 153258
 Ion Ratio Lower Upper
 41 100
 42 69.0 54.8 82.2



#10
 Heptane
 Concen: 0.083 ppbv
 RT: 7.558 min Scan# 1541
 Delta R.T. -0.006 min
 Lab File: VL040033.D
 Acq: 19 Dec 2022 18:12

Tgt Ion: 43 Resp: 13862
 Ion Ratio Lower Upper
 43 100
 57 58.9 41.2 61.8

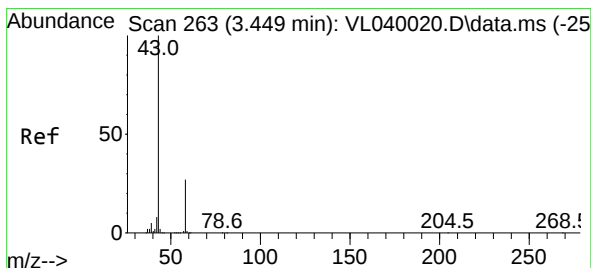
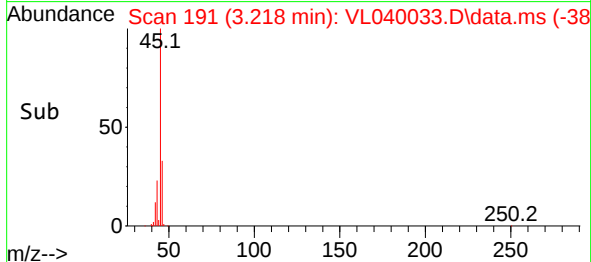
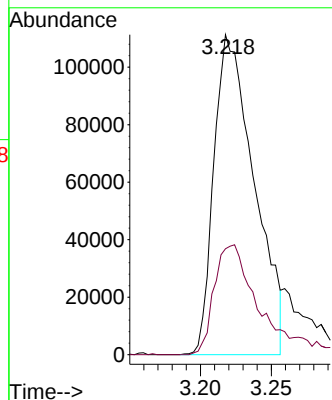
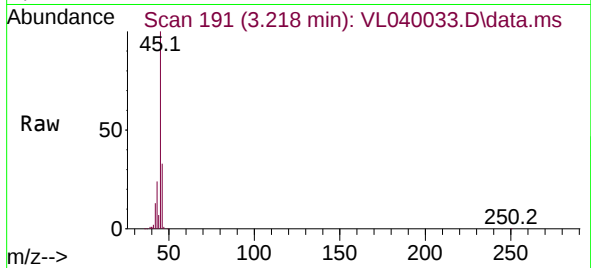




#13
Ethanol
Concen: 34.154 ppbv
RT: 3.218 min Scan# 194
Delta R.T. -0.010 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

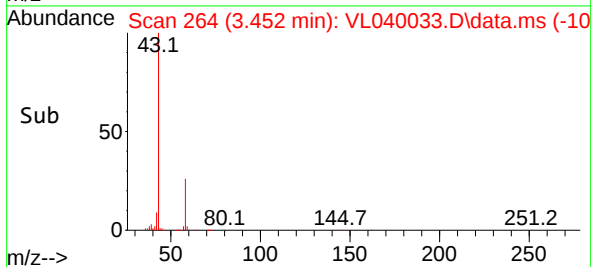
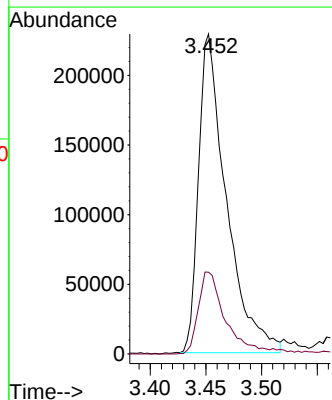
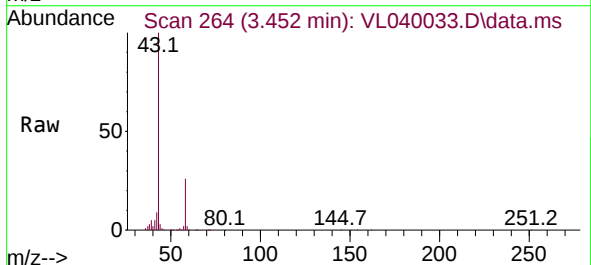
Instrument :
MSVOA_L
ClientSampleId :

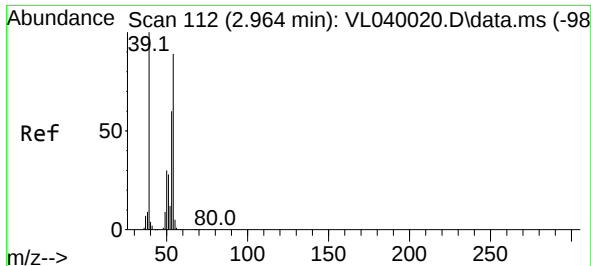
Tgt Ion: 45 Resp: 220004
Ion Ratio Lower Upper
45 100
46 40.3 13.7 54.7



#15
Acetone
Concen: 2.354 ppbv
RT: 3.452 min Scan# 264
Delta R.T. 0.003 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

Tgt Ion: 43 Resp: 398117
Ion Ratio Lower Upper
43 100
58 25.7 21.8 32.8

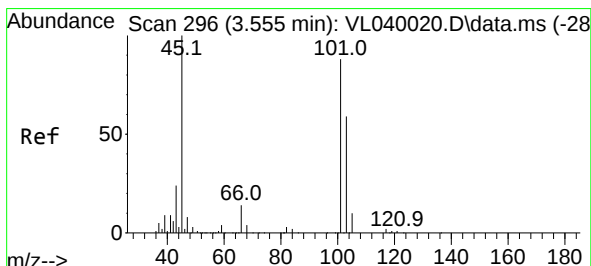
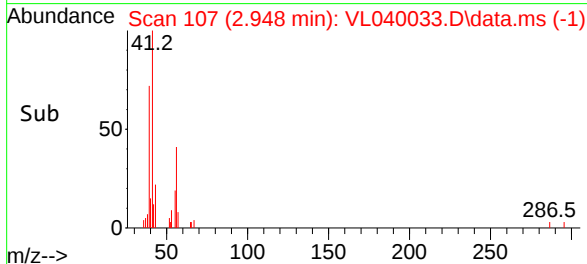
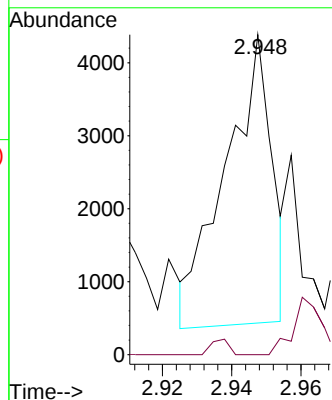
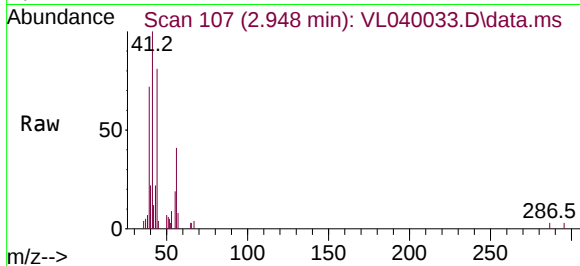




#16
1,3-Butadiene
Concen: 0.050 ppbv
RT: 2.948 min Scan# 107
Delta R.T. -0.016 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

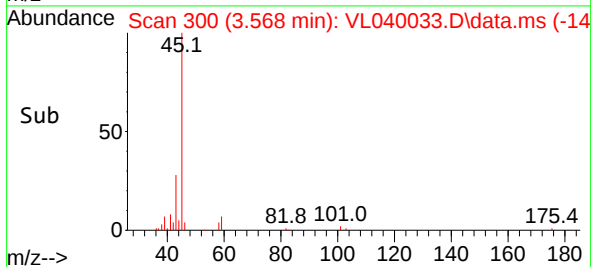
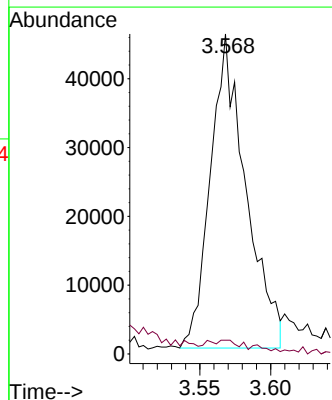
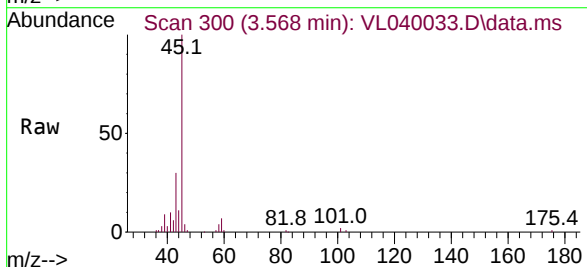
Instrument :
MSVOA_L
ClientSampleId :

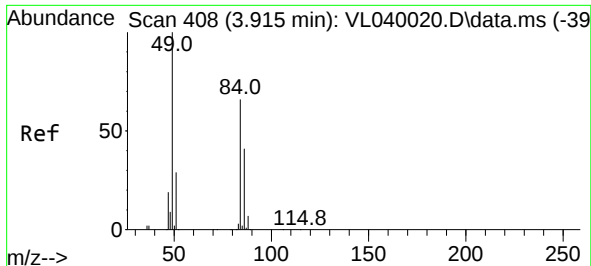
Tgt Ion: 39 Resp: 3675
Ion Ratio Lower Upper
39 100
54 25.6 68.3 102.5#



#19
Isopropyl Alcohol
Concen: 0.953 ppbv
RT: 3.568 min Scan# 300
Delta R.T. 0.013 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

Tgt Ion: 45 Resp: 79380
Ion Ratio Lower Upper
45 100
58 5.2 1.7 2.5#





#20

Methylene Chloride

Concen: 1.331 ppbv

RT: 3.912 min Scan# 408

Delta R.T. -0.003 min

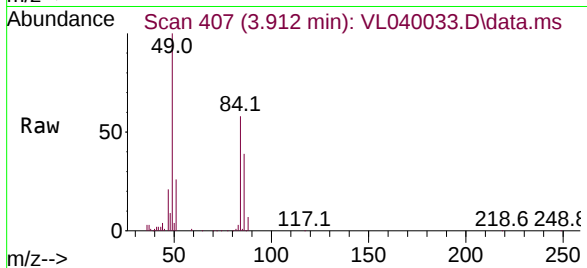
Lab File: VL040033.D

Acq: 19 Dec 2022 18:12

Instrument :

MSVOA_L

ClientSampleId :



Tgt Ion: 84 Resp: 95659

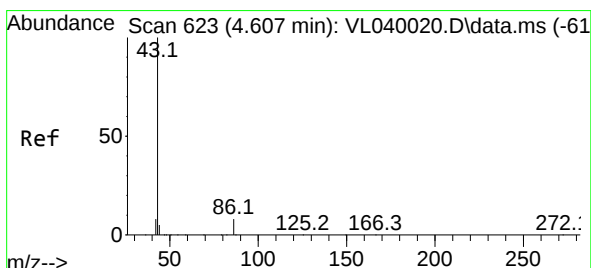
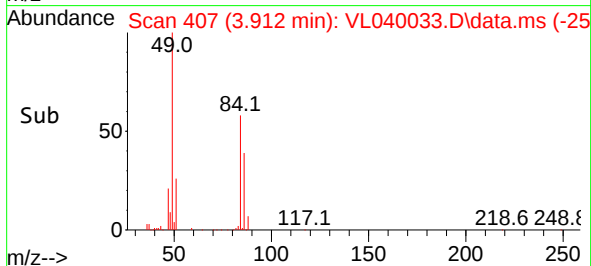
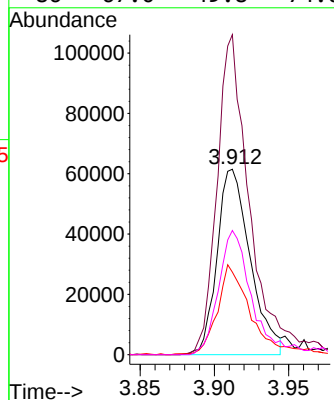
Ion Ratio Lower Upper

84 100

49 172.6 120.5 180.7

51 44.0 35.2 52.8

86 67.0 49.8 74.6



#23

Vinyl Acetate

Concen: 0.079 ppbv

RT: 4.597 min Scan# 620

Delta R.T. -0.010 min

Lab File: VL040033.D

Acq: 19 Dec 2022 18:12

Tgt Ion: 43 Resp: 4232

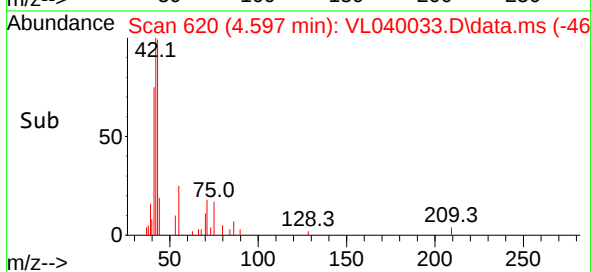
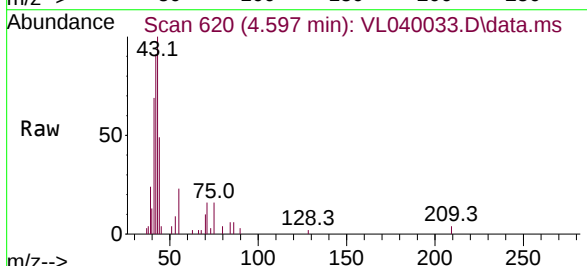
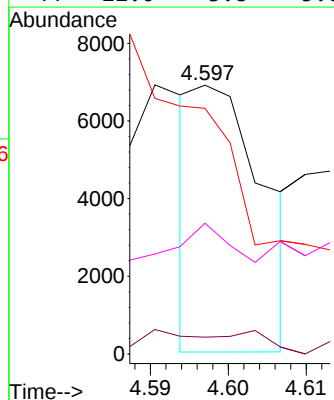
Ion Ratio Lower Upper

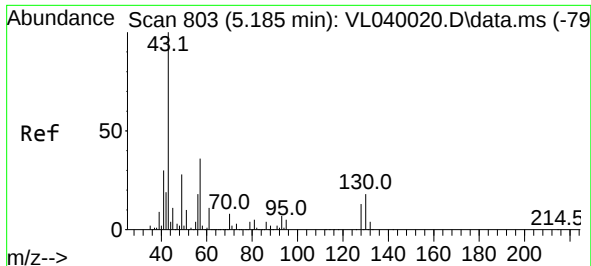
43 100

86 9.2 5.3 7.9#

42 123.9 7.4 11.0#

44 22.0 3.8 5.6#

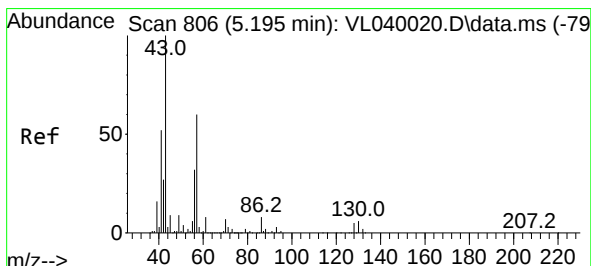
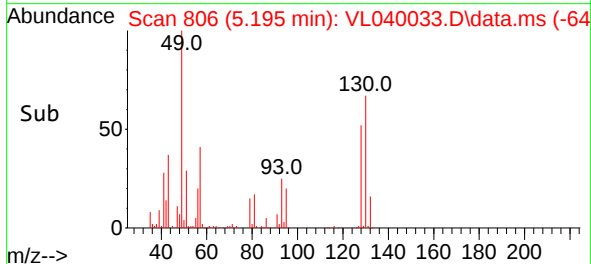
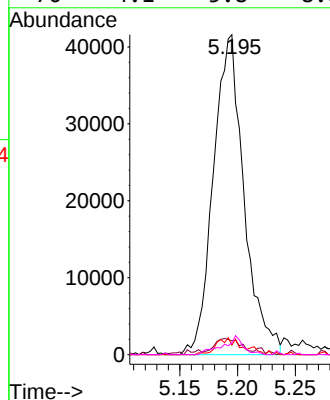
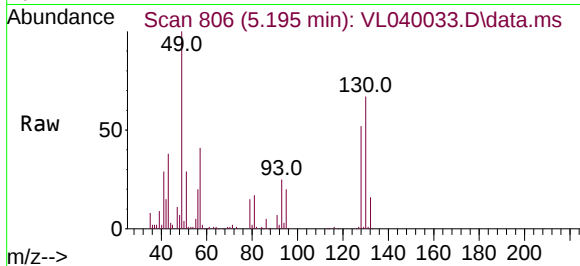




#25
Ethyl Acetate
Concen: 0.262 ppbv
RT: 5.195 min Scan# 803
Delta R.T. 0.010 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

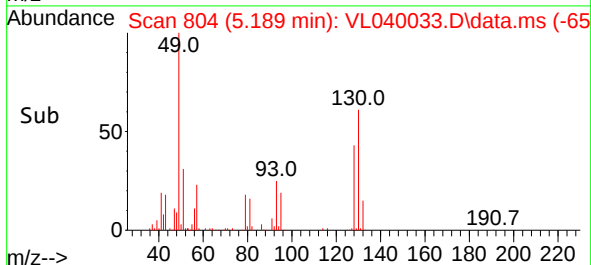
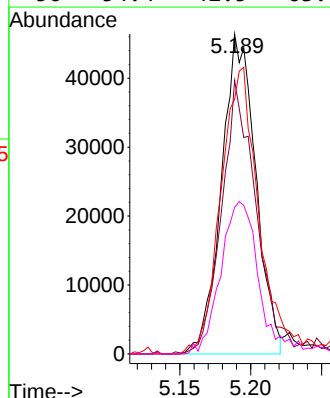
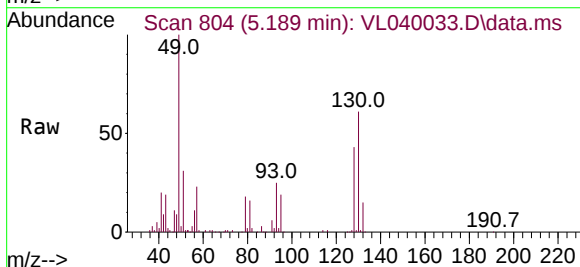
Instrument :
MSVOA_L
ClientSampleId :

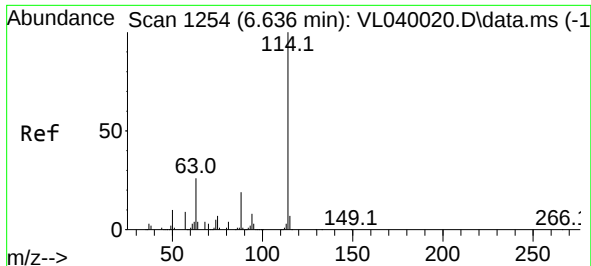
Tgt Ion: 43 Resp: 76800
Ion Ratio Lower Upper
43 100
45 6.3 8.6 12.8#
61 4.6 8.5 12.7#
70 4.1 5.8 8.8#



#26
Hexane
Concen: 0.633 ppbv
RT: 5.189 min Scan# 804
Delta R.T. -0.006 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

Tgt Ion: 57 Resp: 77947
Ion Ratio Lower Upper
57 100
41 89.0 72.1 108.1
43 103.2 192.1 288.1#
56 54.4 42.5 63.7





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 6.629 min Scan# 1125

Delta R.T. -0.006 min

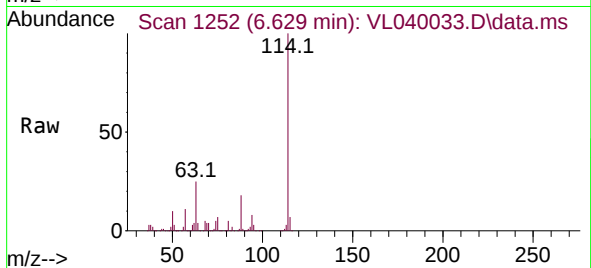
Lab File: VL040033.D

Acq: 19 Dec 2022 18:12

Instrument :

MSVOA_L

ClientSampleId :



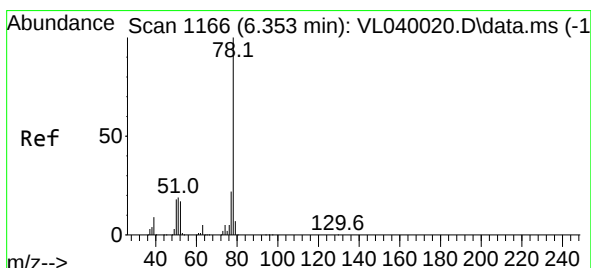
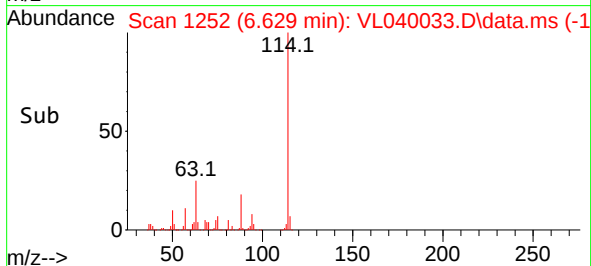
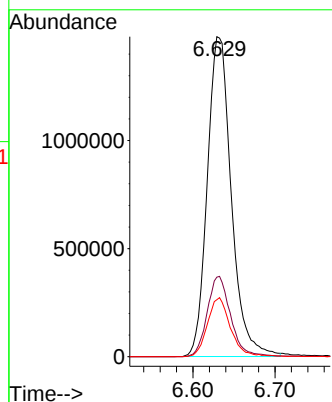
Tgt Ion:114 Resp: 3012313

Ion Ratio Lower Upper

114 100

63 24.7 20.2 30.2

88 17.8 14.6 21.8



#36

Benzene

Concen: 0.033 ppbv

RT: 6.340 min Scan# 1162

Delta R.T. -0.013 min

Lab File: VL040033.D

Acq: 19 Dec 2022 18:12

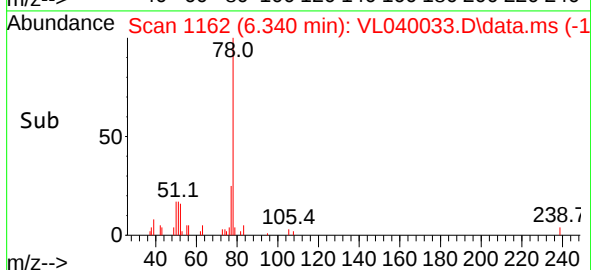
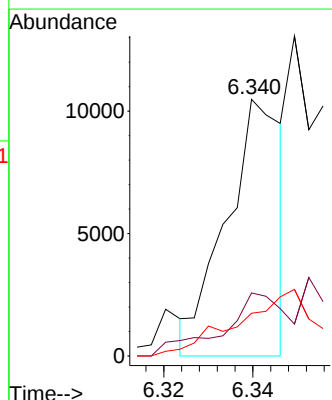
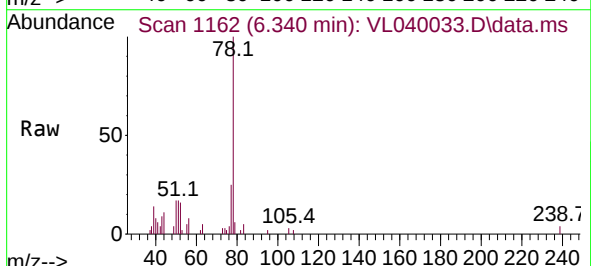
Tgt Ion: 78 Resp: 8987

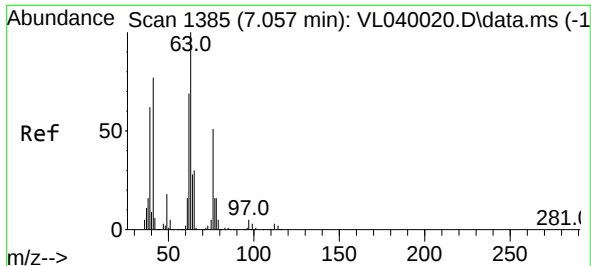
Ion Ratio Lower Upper

78 100

77 21.7 17.5 26.3

50 16.4 14.2 21.2





#39

1,2-Dichloropropane

Concen: 7.307 ppbv

RT: 6.632 min Scan# 11

Delta R.T. -0.424 min

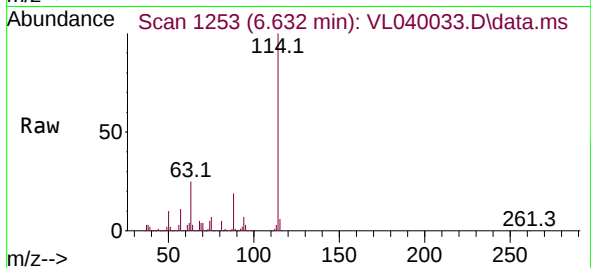
Lab File: VL040033.D

Acq: 19 Dec 2022 18:12

Instrument :

MSVOA_L

ClientSampleId :



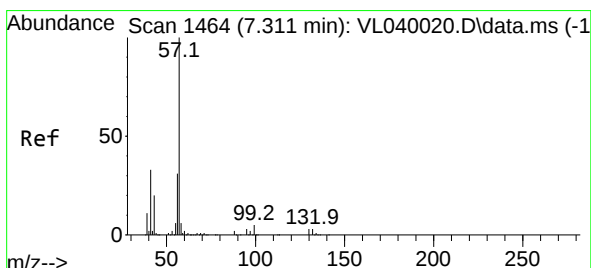
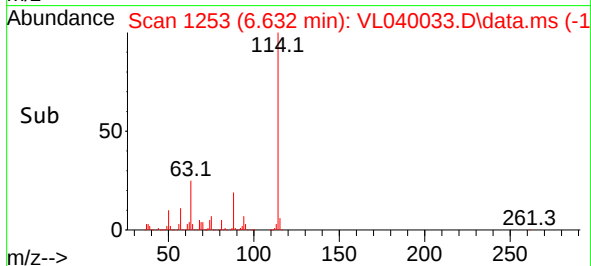
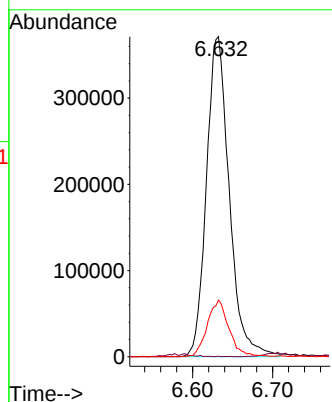
Tgt Ion: 63 Resp: 736813

Ion Ratio Lower Upper

63 100

41 0.0 61.4 92.0#

62 17.7 55.4 83.2#



#44

2,2,4-Trimethylpentane

Concen: 0.036 ppbv

RT: 7.301 min Scan# 1461

Delta R.T. -0.010 min

Lab File: VL040033.D

Acq: 19 Dec 2022 18:12

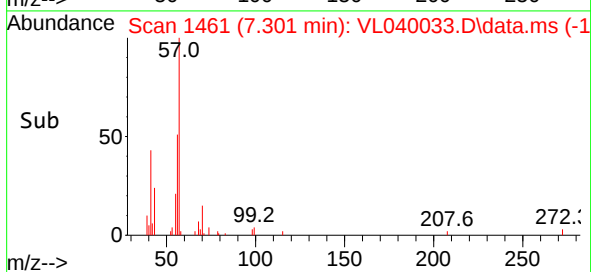
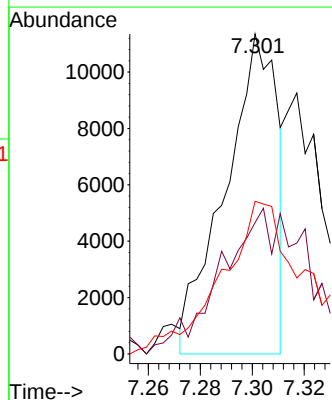
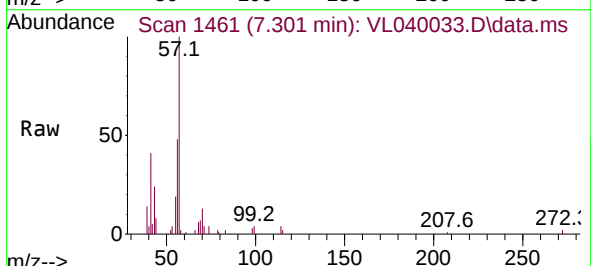
Tgt Ion: 57 Resp: 15800

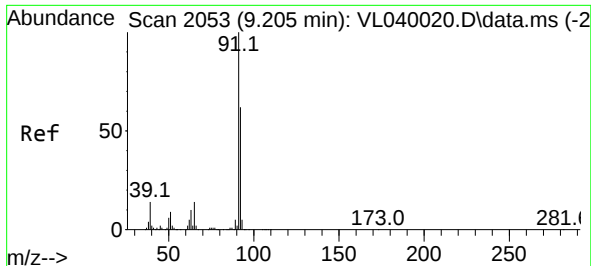
Ion Ratio Lower Upper

57 100

41 80.4 26.2 39.4#

56 78.3 25.1 37.7#

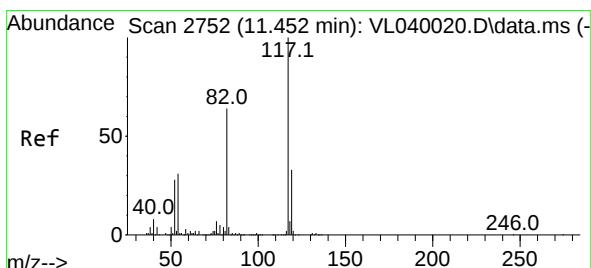
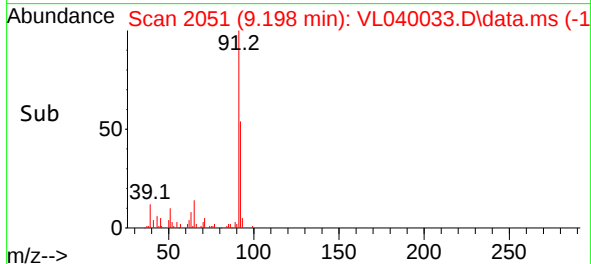
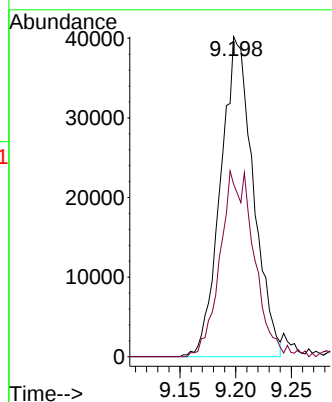
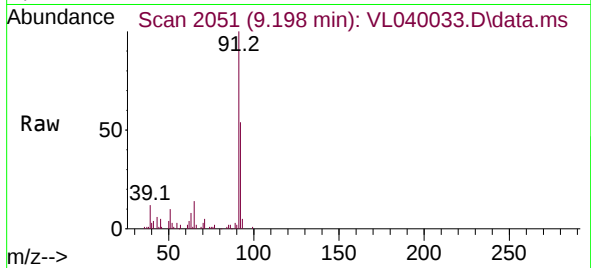




#53
Toluene
Concen: 0.275 ppbv
RT: 9.198 min Scan# 2053
Delta R.T. -0.006 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

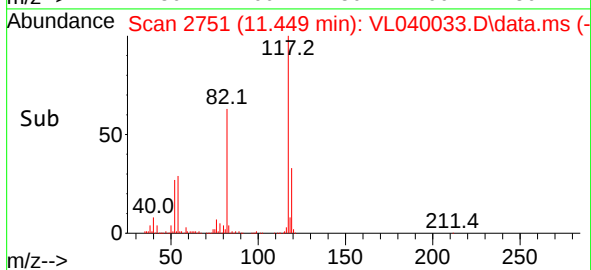
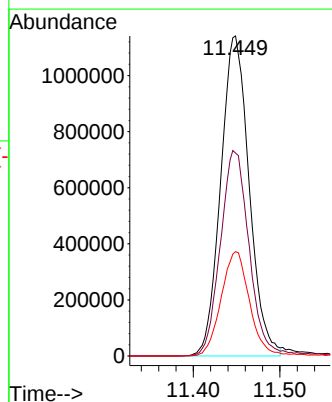
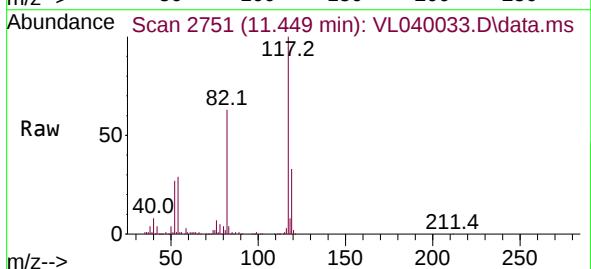
Instrument :
MSVOA_L
ClientSampleId :

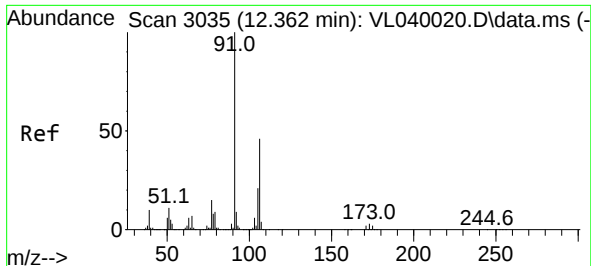
Tgt Ion: 91 Resp: 81993
Ion Ratio Lower Upper
91 100
92 60.8 48.7 73.1



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.449 min Scan# 2751
Delta R.T. -0.003 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

Tgt Ion: 117 Resp: 2602650
Ion Ratio Lower Upper
117 100
82 66.7 51.2 76.8
119 33.1 23.2 34.8





#59

m/p-Xylene

Concen: 0.034 ppbv

RT: 12.359 min Scan# 3035

Delta R.T. -0.003 min

Lab File: VL040033.D

Acq: 19 Dec 2022 18:12

Instrument :

MSVOA_L

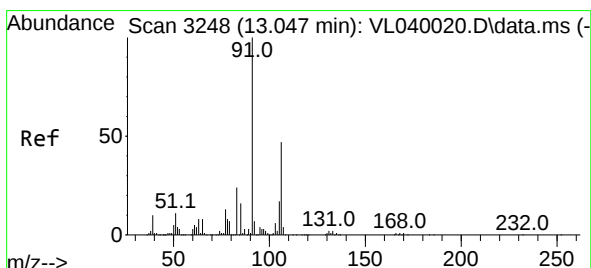
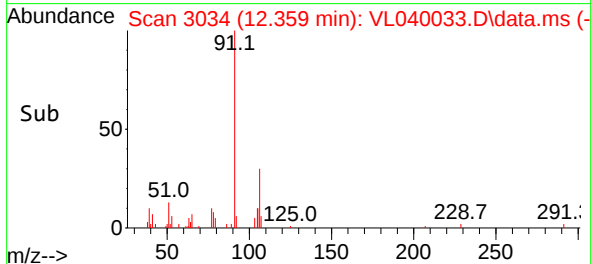
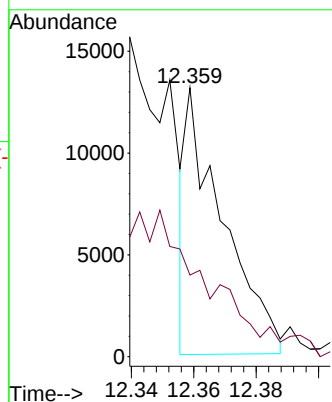
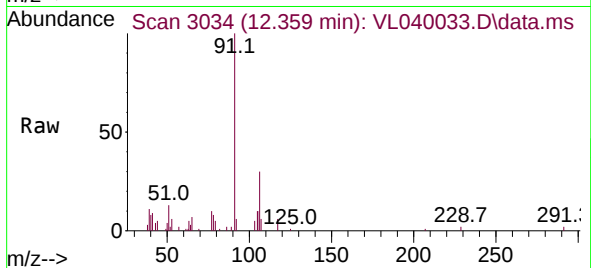
ClientSampleId :

Tgt Ion: 91 Resp: 10833

Ion Ratio Lower Upper

91 100

106 0.0 35.5 53.3#



#60

o-Xylene

Concen: 0.048 ppbv

RT: 13.040 min Scan# 3246

Delta R.T. -0.006 min

Lab File: VL040033.D

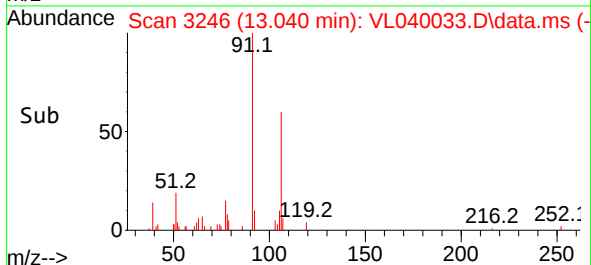
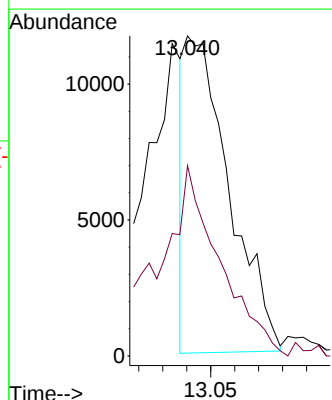
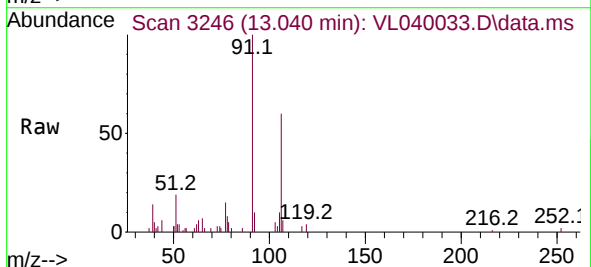
Acq: 19 Dec 2022 18:12

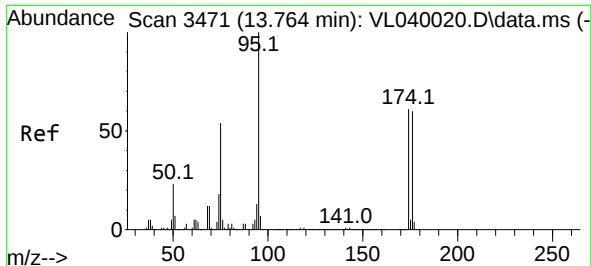
Tgt Ion: 91 Resp: 14852

Ion Ratio Lower Upper

91 100

106 87.2 22.4 67.0#

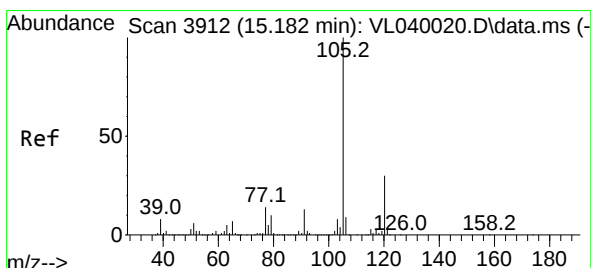
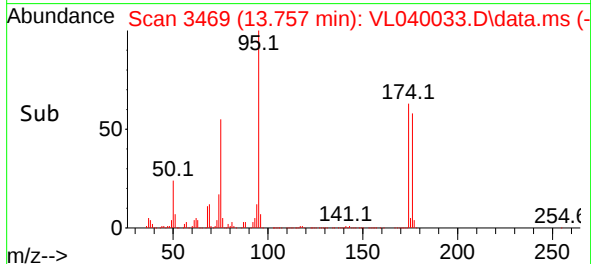
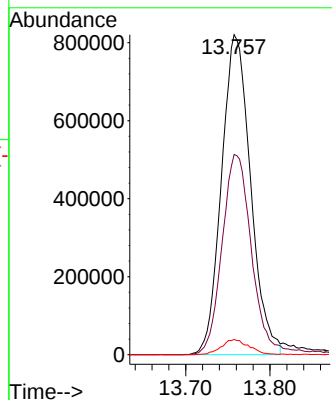
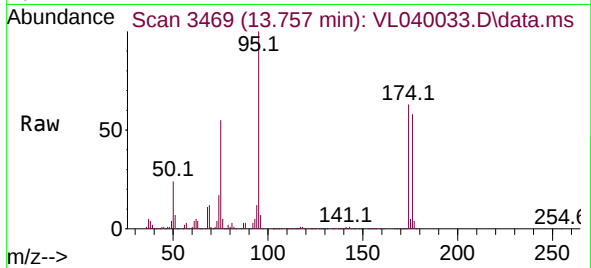




#68
1-Bromo-4-Fluorobenzene
Concen: 9.890 ppbv
RT: 13.757 min Scan# 3471
Delta R.T. -0.006 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

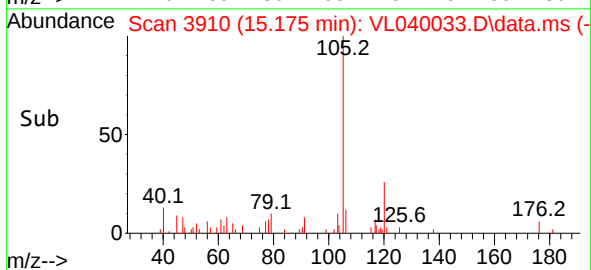
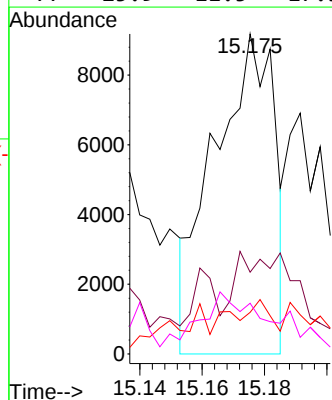
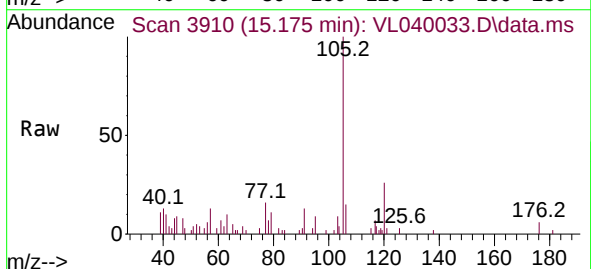
Instrument :
MSVOA_L
ClientSampleId :

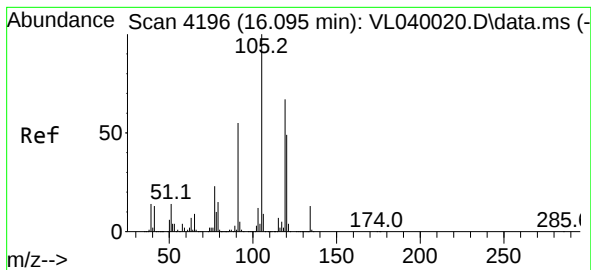
Tgt Ion: 95 Resp: 1966174
Ion Ratio Lower Upper
95 100
174 64.6 48.6 73.0
175 4.6 3.4 5.2



#72
4-Ethyltoluene
Concen: 0.036 ppbv
RT: 15.175 min Scan# 3910
Delta R.T. -0.006 min
Lab File: VL040033.D
Acq: 19 Dec 2022 18:12

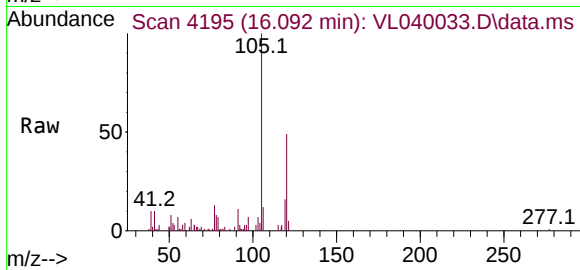
Tgt Ion: 105 Resp: 12316
Ion Ratio Lower Upper
105 100
120 50.8 23.5 35.3#
91 33.4 10.5 15.7#
77 25.9 11.5 17.3#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.094 ppbv
 RT: 16.092 min Scan# 4195
 Delta R.T. -0.003 min
 Lab File: VL040033.D
 Acq: 19 Dec 2022 18:12

Instrument :
 MSVOA_L
 ClientSampleId :



Tgt Ion:	105	Resp:	32132
Ion	Ratio	Lower	Upper
105	100		
120	48.6	39.3	58.9
91	11.3	44.2	66.4#
77	12.6	18.8	28.2#

