

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL012722\
 Data File : VL038304.D
 Acq On : 27 Jan 2022 20:00
 Operator : SY/AP
 Sample : N1308-01DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DUP

Quant Time: Jan 28 05:14:26 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 24 14:12:48 2022
 QLast Update : Mon Jan 24 14:12:48 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	808967	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.15	114	1992064	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	1680271	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1243845	9.75	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.50%

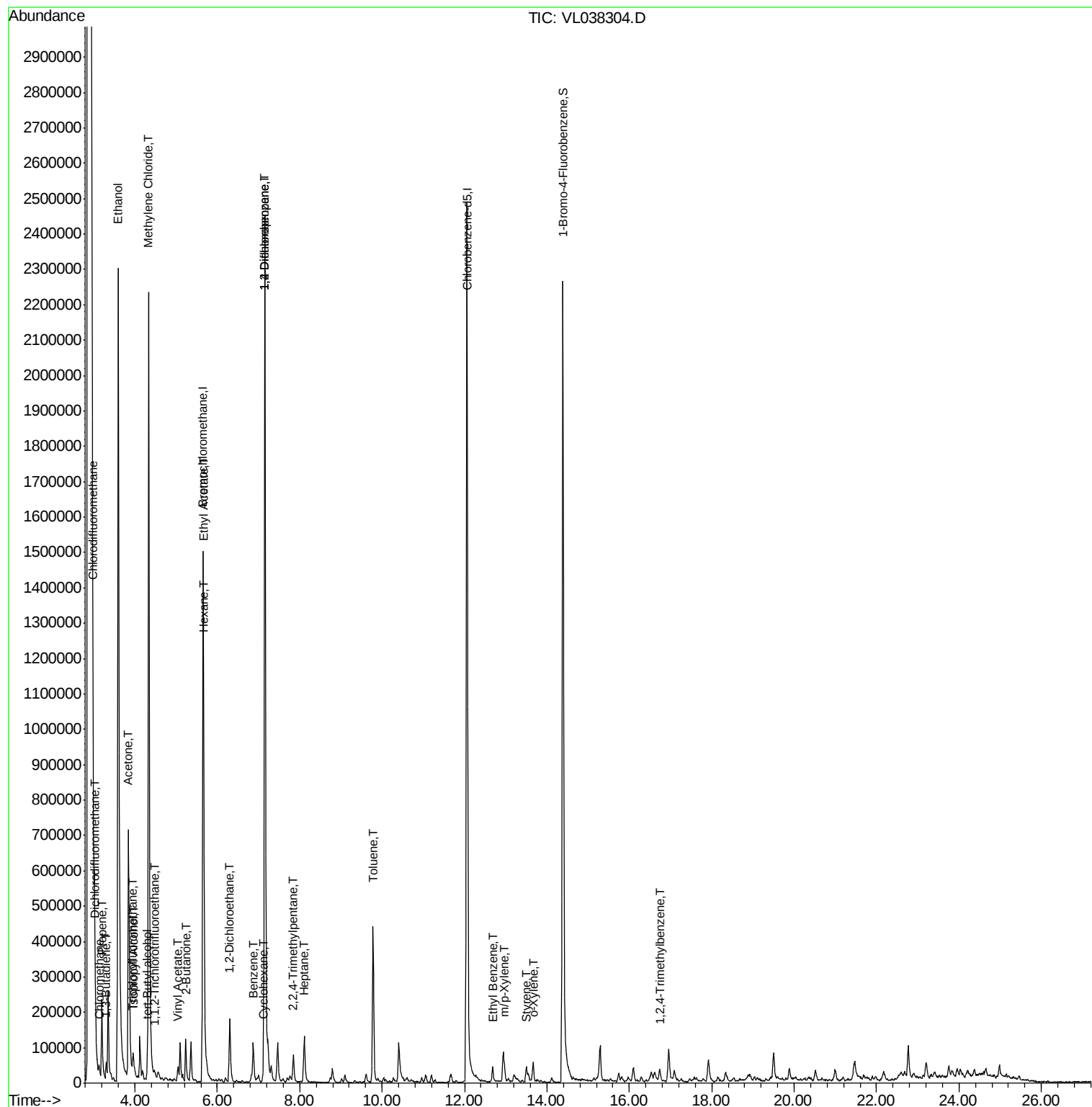
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.04	85	82167	0.477	ppbv	96
3) Chlorodifluoromethane	2.99	51	69430	0.431	ppbv #	78
4) Chloromethane	3.13	50	21396	0.386	ppbv	97
9) Propene	3.20	41	64715	1.234	ppbv	88
10) Heptane	8.10	43	33994	0.252	ppbv	90
11) Trichlorofluoromethane	3.94	101	25154	0.187	ppbv	93
12) 1,1,2-Trichlorotrifluoroet	4.48	101	5328	0.053	ppbv	86
13) Ethanol	3.59	45	3222324	572.559	ppbv	97
15) Acetone	3.84	43	928844	13.025	ppbv	99
16) 1,3-Butadiene	3.30	39	16344	0.319	ppbv #	43
17) tert-Butyl alcohol	4.29	59	8581	0.110	ppbv #	70
19) Isopropyl Alcohol	3.96	45	52094	1.168	ppbv #	1
20) Methylene Chloride	4.33	84	938738	22.633	ppbv	97
23) Vinyl Acetate	5.04	43	20332	0.196	ppbv #	15
25) Ethyl Acetate	5.67	43	140263	0.702	ppbv #	92
26) Hexane	5.67	57	138692	1.493	ppbv #	54
30) Cyclohexane	7.11	84	3004	0.037	ppbv #	1
34) 2-Butanone	5.23	43	154429	2.371	ppbv	99
36) Benzene	6.87	78	93686	0.532	ppbv	94
37) 1,2-Dichloroethane	6.29	62	21801	0.216	ppbv #	92
39) 1,2-Dichloropropane	7.16	63	528448	7.397	ppbv #	24
44) 2,2,4-Trimethylpentane	7.85	57	47330	0.152	ppbv #	61
53) Toluene	9.78	91	352420	1.807	ppbv	99
58) Ethyl Benzene	12.69	91	37492	0.152	ppbv #	80
59) m/p-Xylene	12.97	91	13668	0.065	ppbv #	32
60) o-Xylene	13.66	91	23197	0.118	ppbv #	32
61) Styrene	13.50	104	11923	0.130	ppbv #	16
74) 1,2,4-Trimethylbenzene	16.73	105	18010	0.093	ppbv #	63

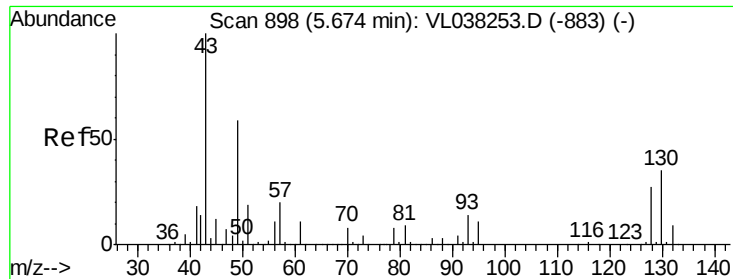
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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Quant Time: Jan 28 05:14:26 2022
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA-1DUP

Acq: 27 Jan 2022 20:00

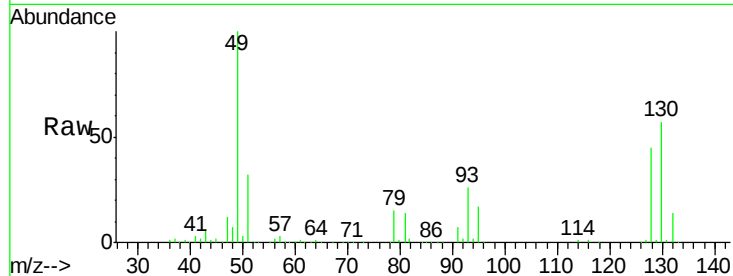
Tgt Ion: 49 Resp: 808967

Ion Ratio Lower Upper

49 100

128 45.7 24.5 73.5

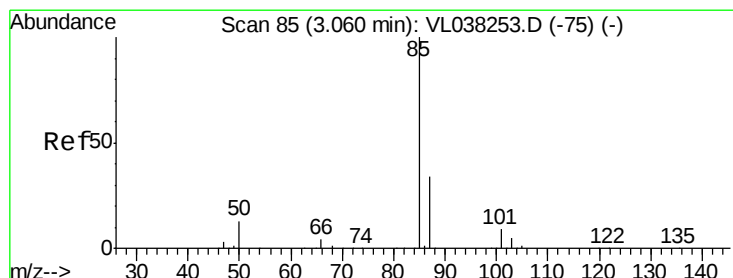
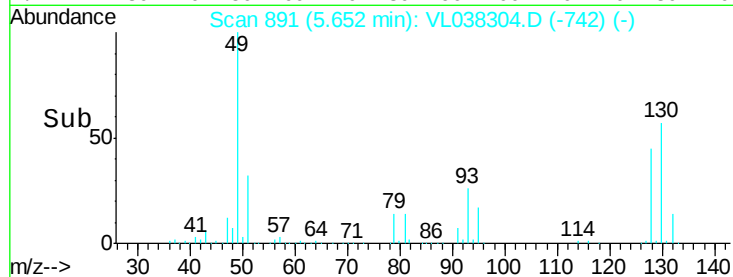
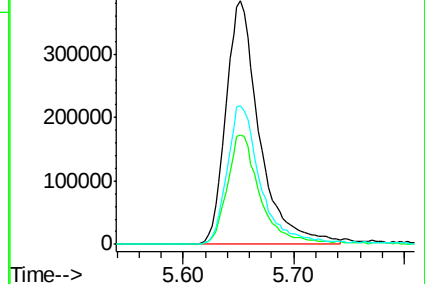
130 58.2 30.1 90.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.477 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.02 min

Lab File: VL038304.D

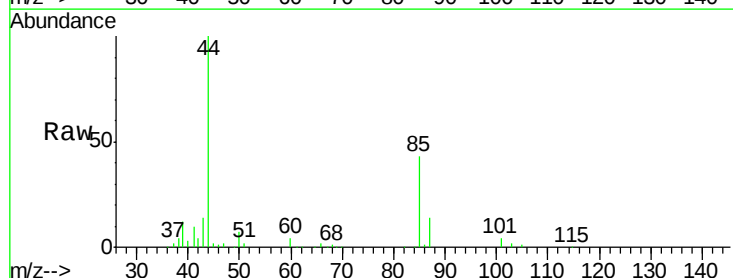
Acq: 27 Jan 2022 20:00

Tgt Ion: 85 Resp: 82167

Ion Ratio Lower Upper

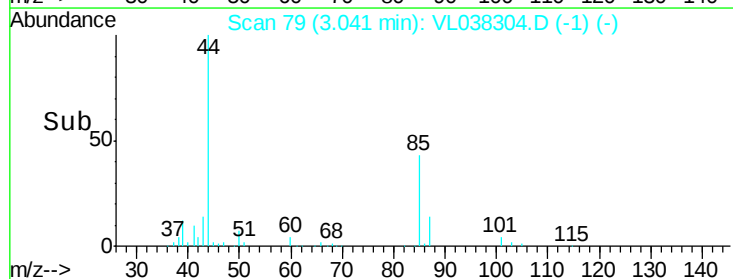
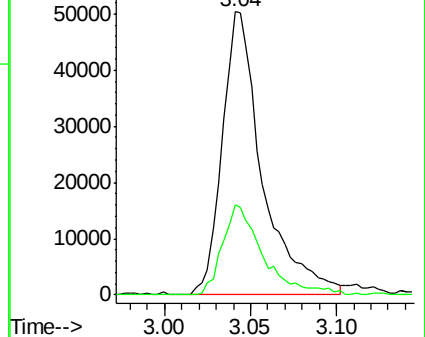
85 100

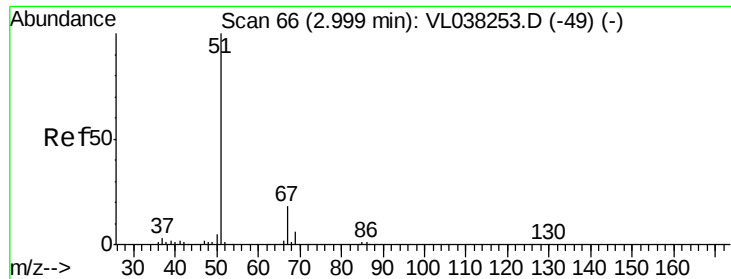
87 31.4 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

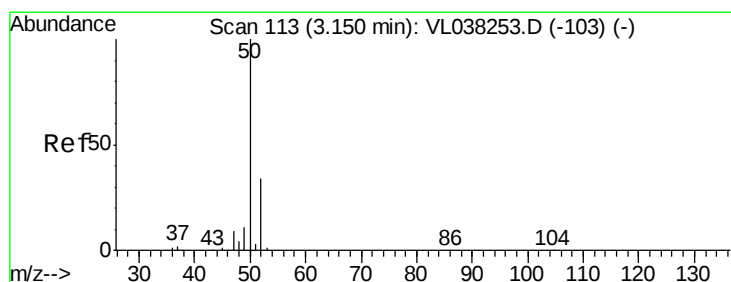
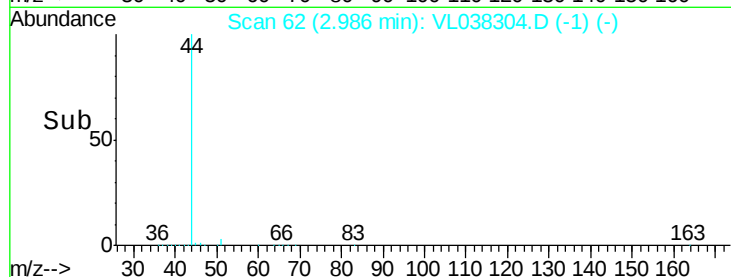
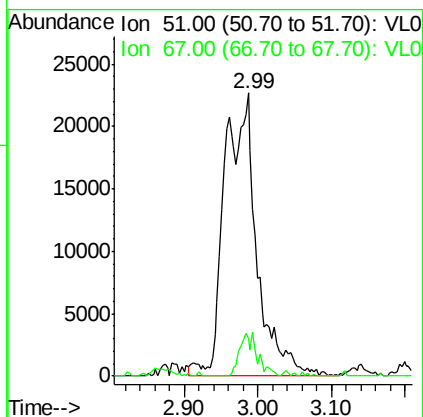
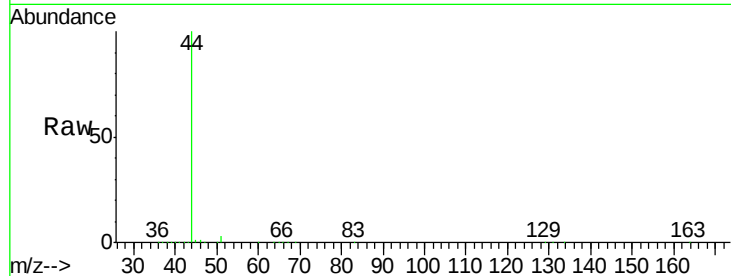
Ion 87.00 (86.70 to 87.70): VL0





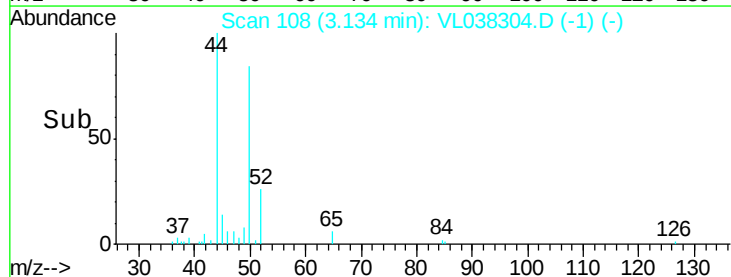
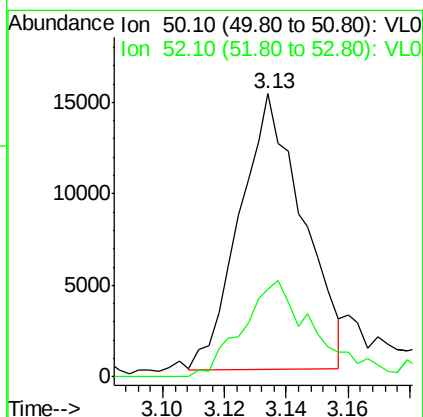
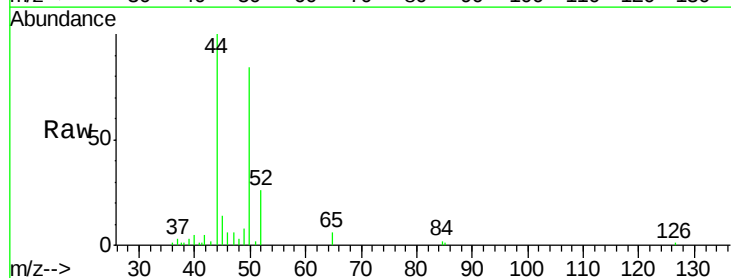
#3
 Chlorodifluoromethane
 Concen: 0.431 ppbv
 RT: 2.99 Instrument : MSVOA_1
 Delta R.T.: ClientSampleId :
 Lab File: IA-1DUP
 Acq: 27 Jan 2022 20:00

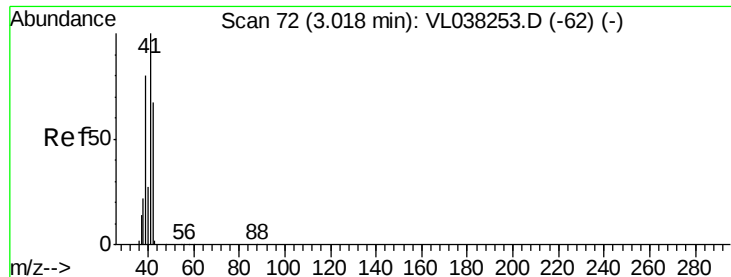
Tgt Ion: 51 Resp: 69430
 Ion Ratio Lower Upper
 51 100
 67 8.2 14.4 21.6#



#4
 Chloromethane
 Concen: 0.386 ppbv
 RT: 3.13 min Scan# 108
 Delta R.T. -0.02 min
 Lab File: VL038304.D
 Acq: 27 Jan 2022 20:00

Tgt Ion: 50 Resp: 21396
 Ion Ratio Lower Upper
 50 100
 52 32.1 27.1 40.7





#9

Propene

Concen: 1.234 ppbv

RT: 3.20 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

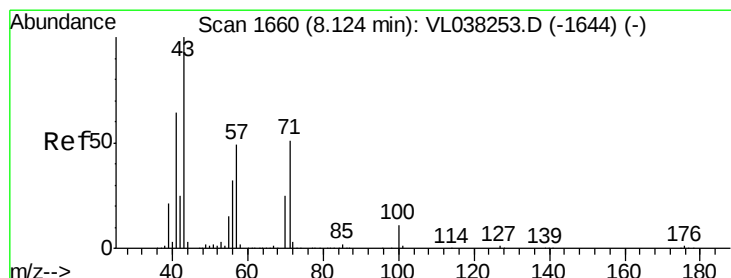
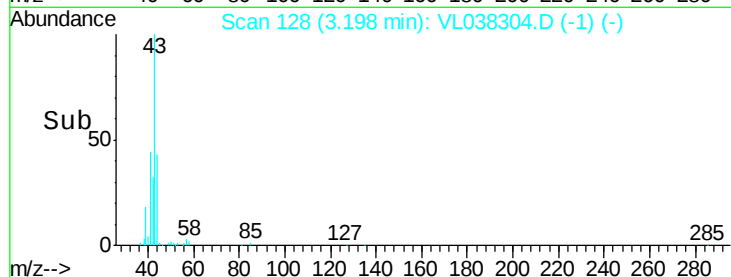
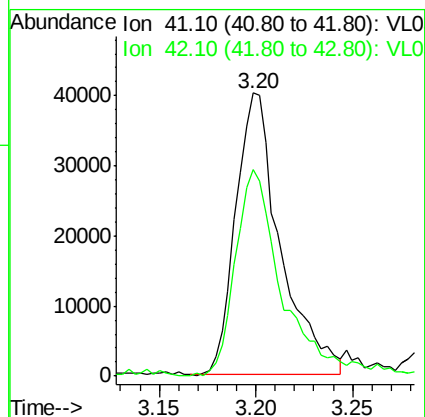
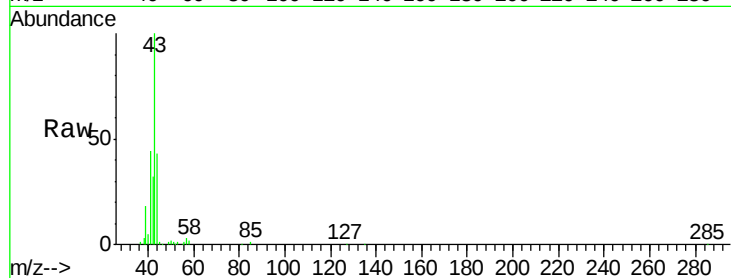
Acq: 27 Jan 2022 20:00

Tgt Ion: 41 Resp: 64715

Ion Ratio Lower Upper

41 100

42 78.1 54.9 82.3



#10

Heptane

Concen: 0.252 ppbv

RT: 8.10 min Scan# 1652

Delta R.T. -0.03 min

Lab File: VL038304.D

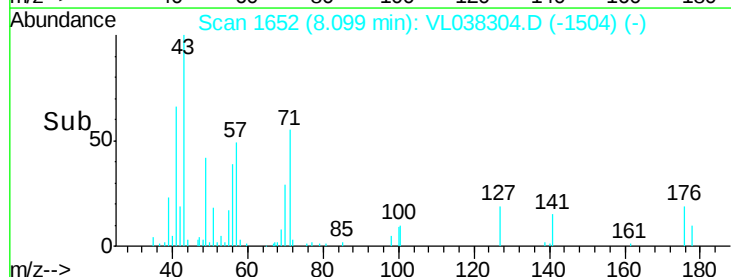
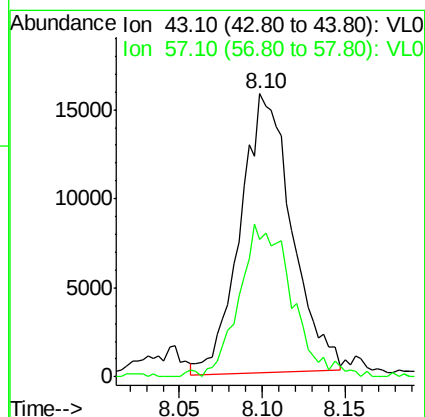
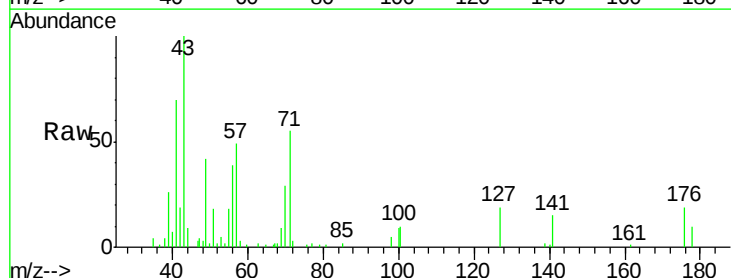
Acq: 27 Jan 2022 20:00

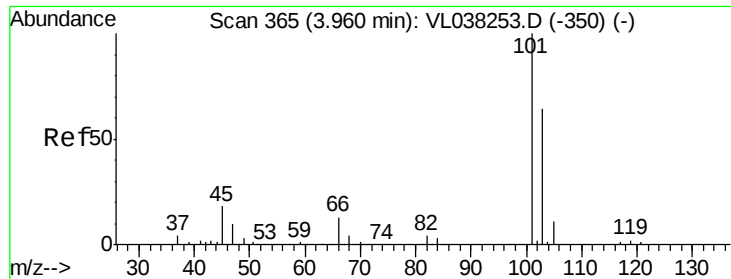
Tgt Ion: 43 Resp: 33994

Ion Ratio Lower Upper

43 100

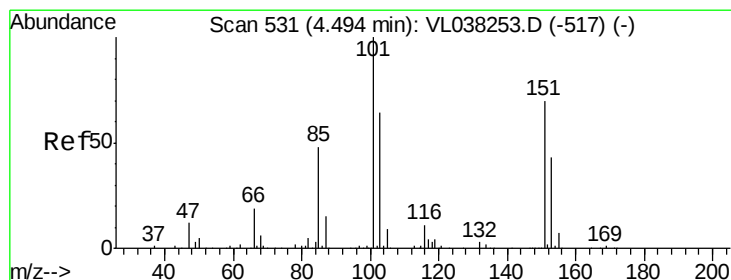
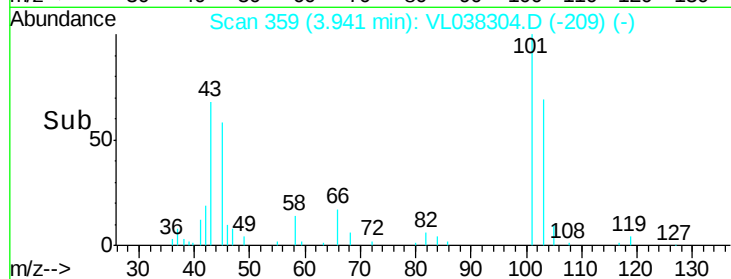
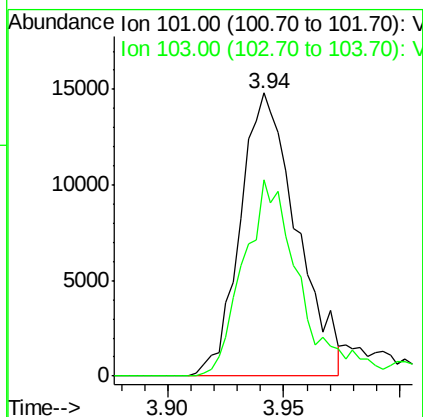
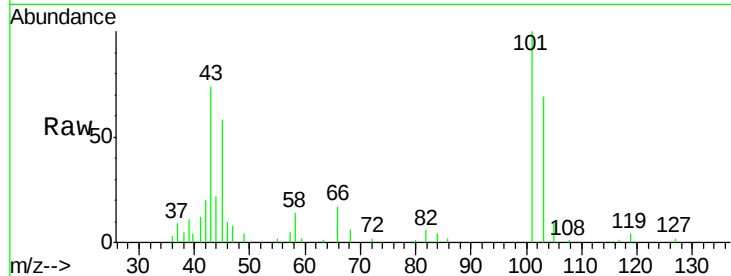
57 55.9 39.5 59.3





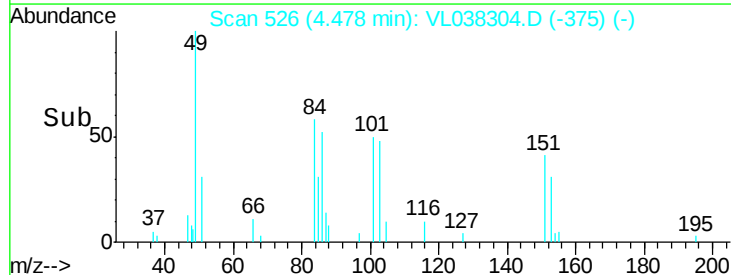
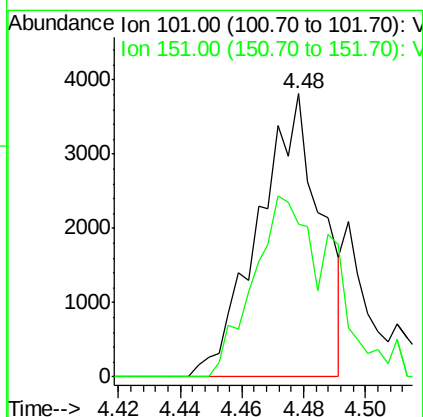
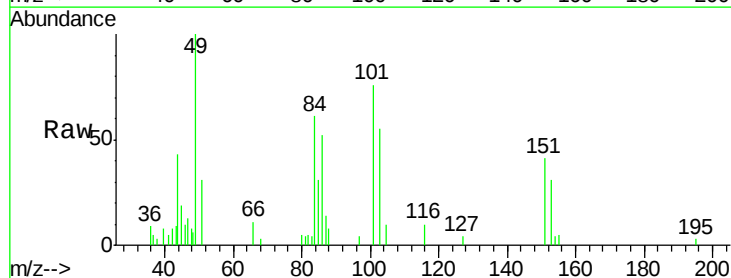
#11
 Trichlorofluoromethane
 Concen: 0.187 ppbv
 RT: 3.94
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Jan 2022 20:00

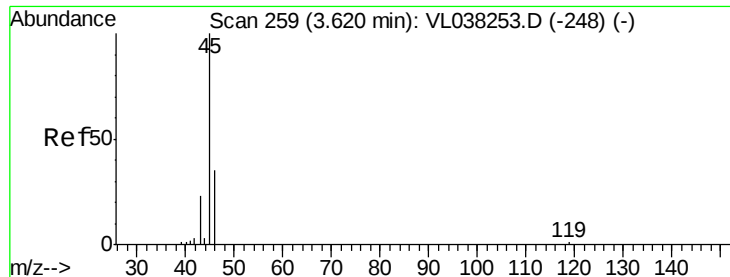
Tgt Ion:101 Resp: 25154
 Ion Ratio Lower Upper
 101 100
 103 69.4 51.2 76.8



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.053 ppbv
 RT: 4.48 min Scan# 526
 Delta R.T. -0.02 min
 Lab File: VL038304.D
 Acq: 27 Jan 2022 20:00

Tgt Ion:101 Resp: 5328
 Ion Ratio Lower Upper
 101 100
 151 80.7 55.3 82.9





#13

Ethanol

Concen: 572.559 ppbv

RT: 3.59 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

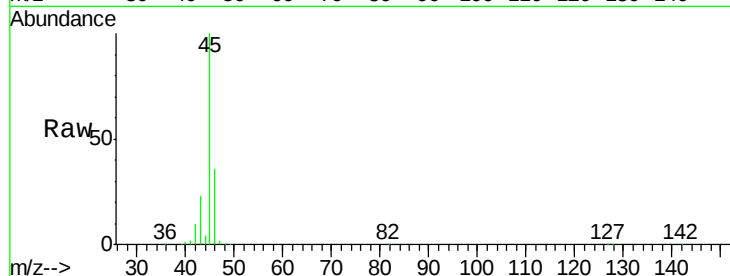
Acq: 27 Jan 2022 20:00

Tgt Ion: 45 Resp: 3222324

Ion Ratio Lower Upper

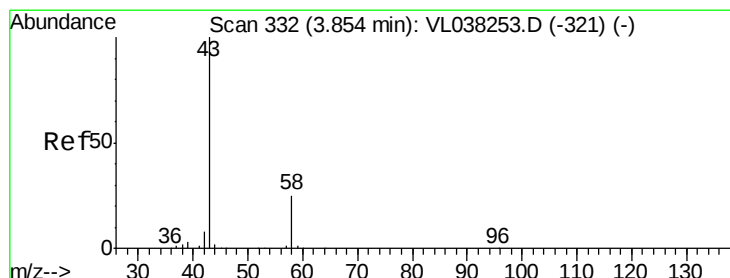
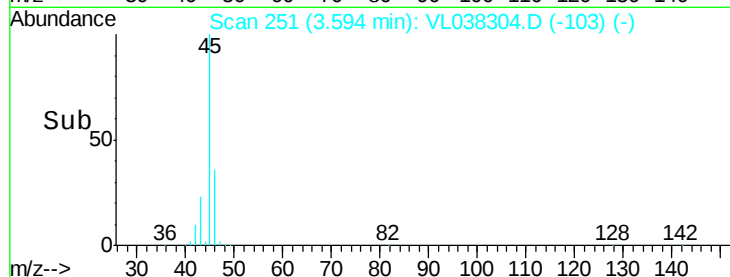
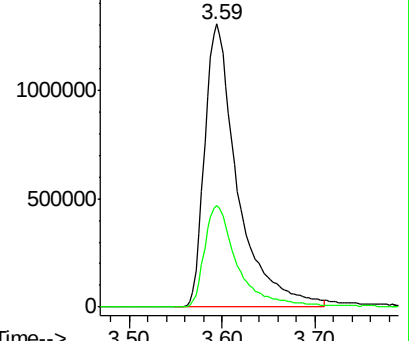
45 100

46 36.9 15.4 61.6



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#15

Acetone

Concen: 13.025 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.02 min

Lab File: VL038304.D

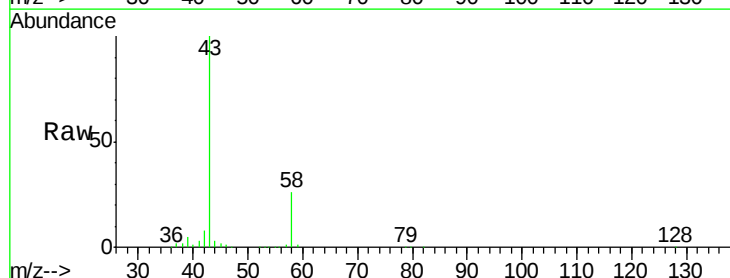
Acq: 27 Jan 2022 20:00

Tgt Ion: 43 Resp: 928844

Ion Ratio Lower Upper

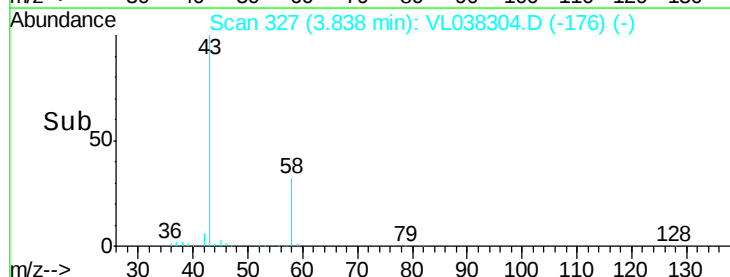
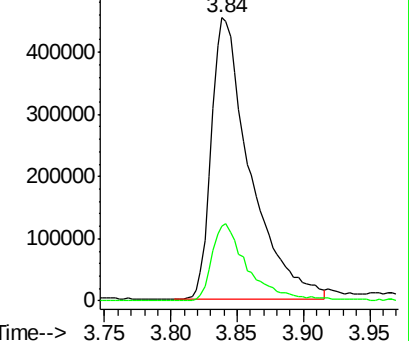
43 100

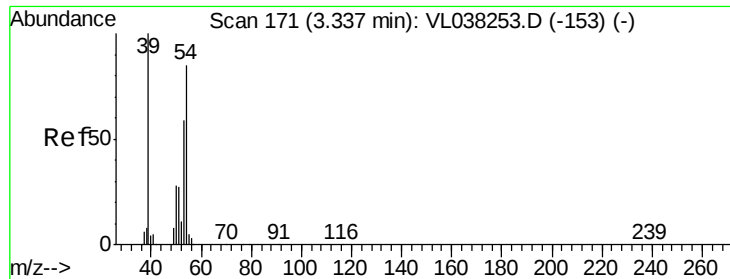
58 26.2 21.5 32.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

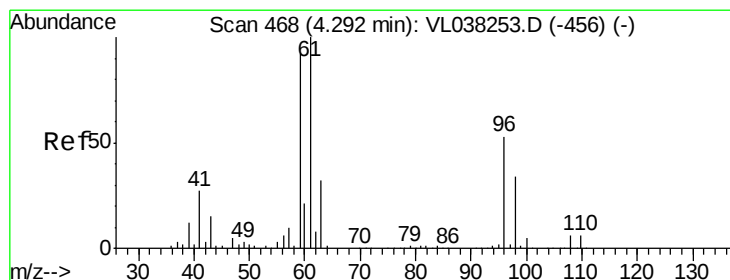
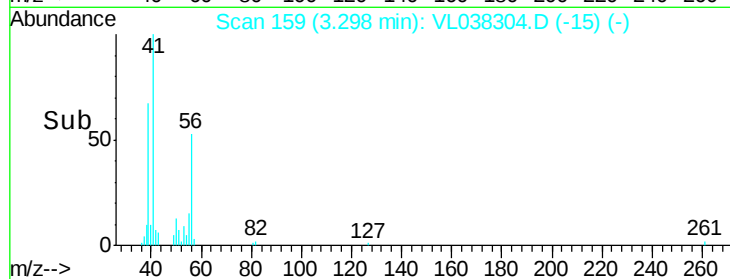
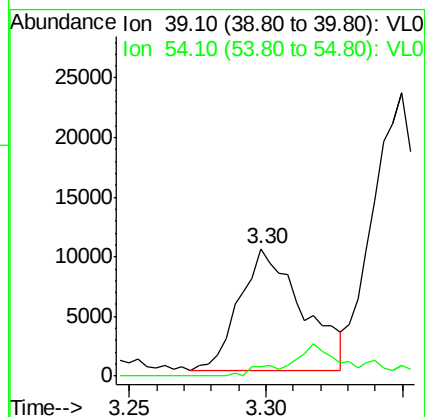
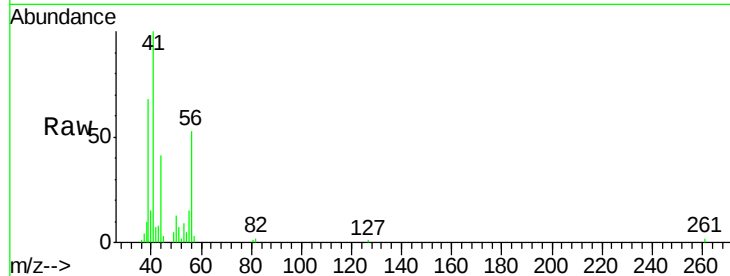
Ion 58.10 (57.80 to 58.80): VL0





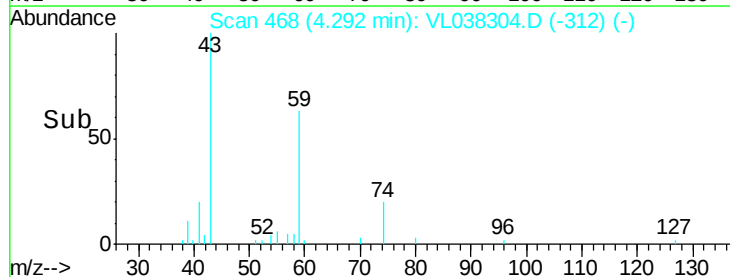
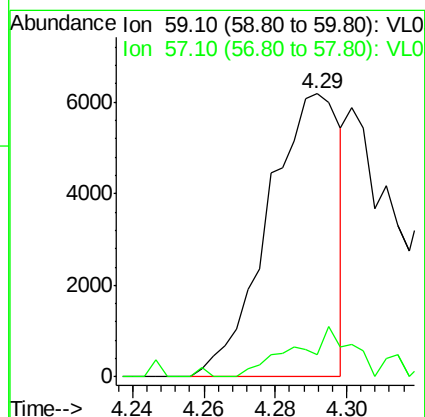
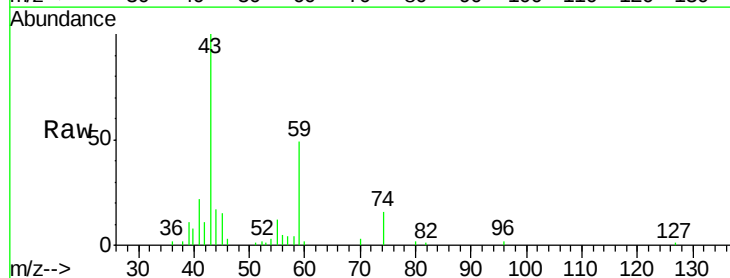
#16
 1,3-Butadiene
 Concen: 0.319 ppbv
 RT: 3.30
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Jan 2022 20:00

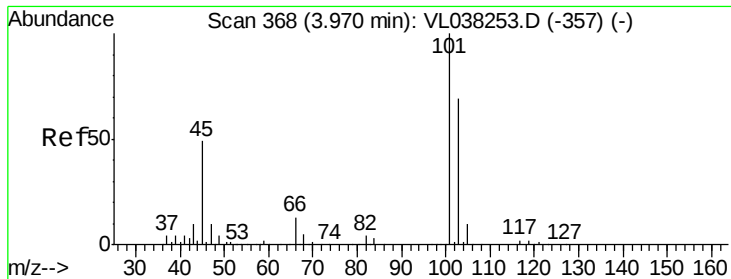
Tgt Ion: 39 Resp: 16344
 Ion Ratio Lower Upper
 39 100
 54 28.3 62.6 94.0#



#17
 tert-Butyl alcohol
 Concen: 0.110 ppbv
 RT: 4.29 min Scan# 468
 Delta R.T. 0.00 min
 Lab File: VL038304.D
 Acq: 27 Jan 2022 20:00

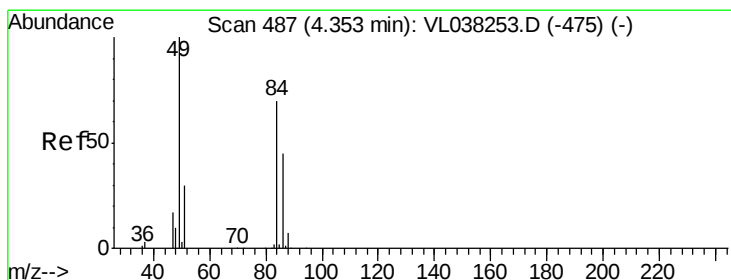
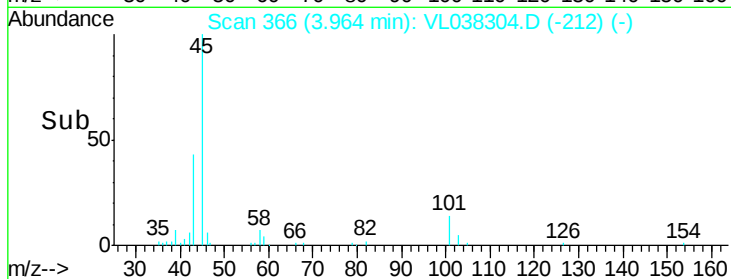
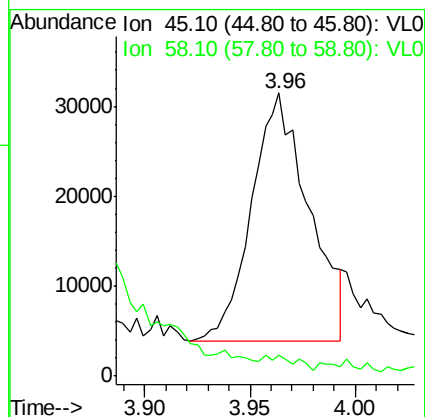
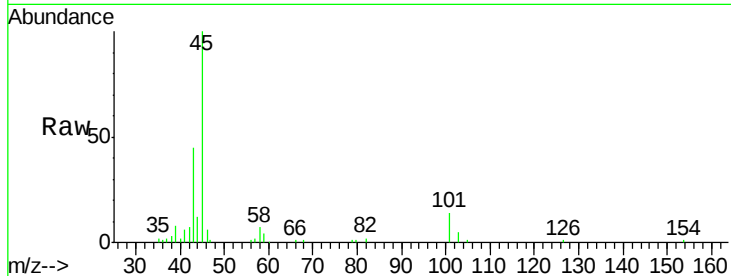
Tgt Ion: 59 Resp: 8581
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.2 13.8#





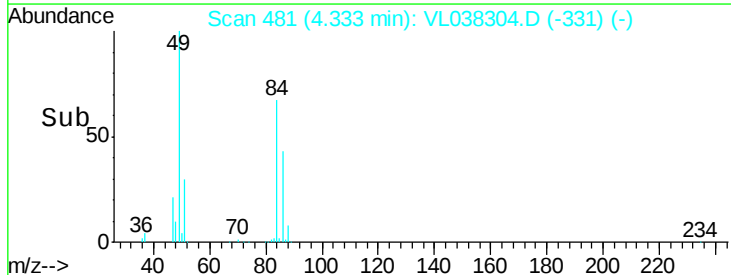
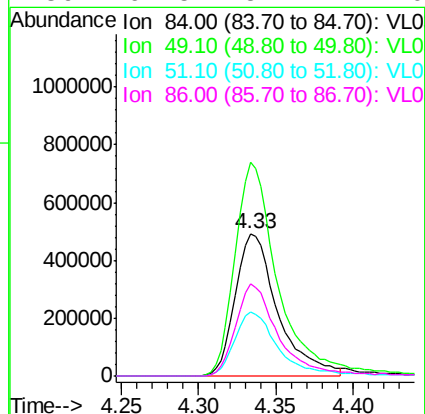
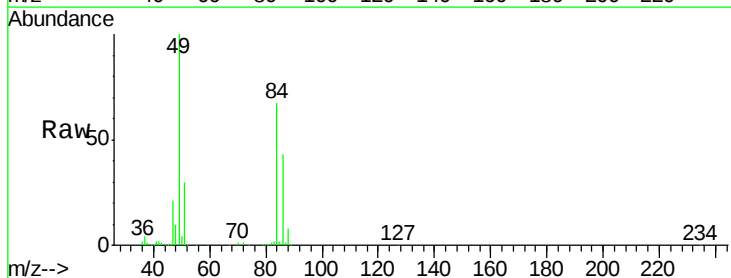
#19
Isopropyl Alcohol
Concen: 1.168 ppbv
RT: 3.96
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Jan 2022 20:00

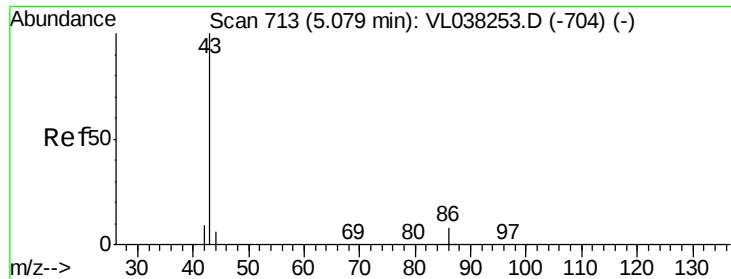
Tgt Ion: 45 Resp: 52094
Ion Ratio Lower Upper
45 100
58 467.4 2.3 3.5#



#20
Methylene Chloride
Concen: 22.633 ppbv
RT: 4.33 min Scan# 481
Delta R.T. -0.02 min
Lab File: VL038304.D
Acq: 27 Jan 2022 20:00

Tgt Ion: 84 Resp: 938738
Ion Ratio Lower Upper
84 100
49 150.2 115.0 172.6
51 45.3 35.0 52.6
86 64.5 51.4 77.0





#23

Vinyl Acetate

Concen: 0.196 ppbv

RT: 5.04 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Jan 2022 20:00

Tgt Ion: 43 Resp: 20332

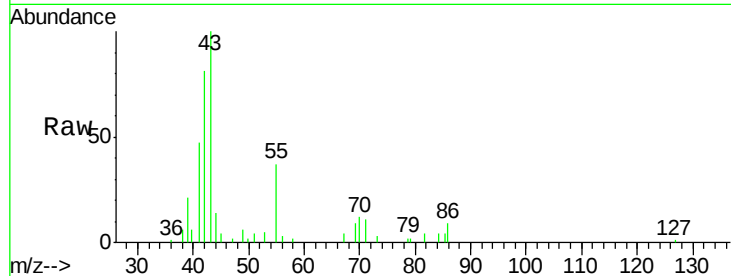
Ion Ratio Lower Upper

43 100

86 5.6 5.7 8.5#

42 78.7 7.7 11.5#

44 3.8 4.2 6.4#

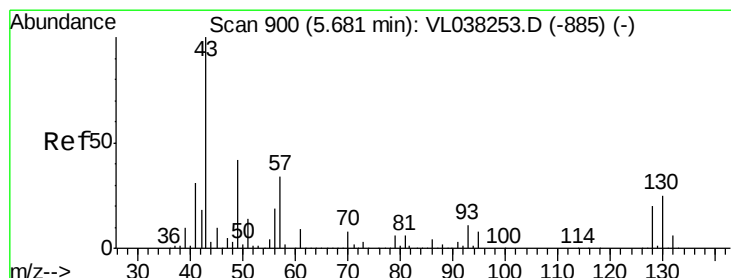
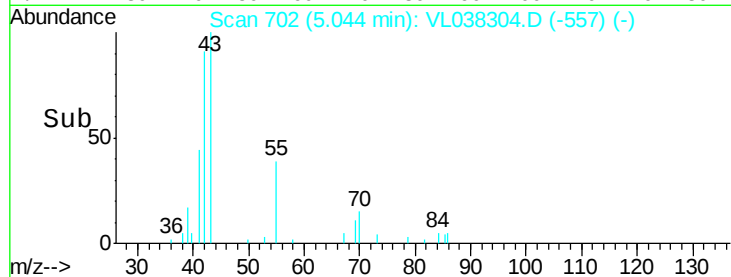
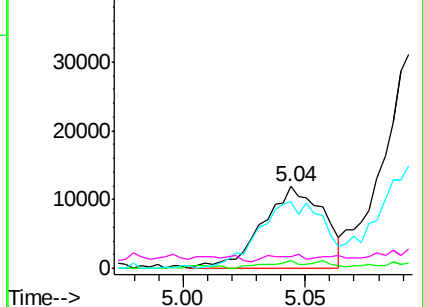


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.702 ppbv

RT: 5.67 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL038304.D

Acq: 27 Jan 2022 20:00

Tgt Ion: 43 Resp: 140263

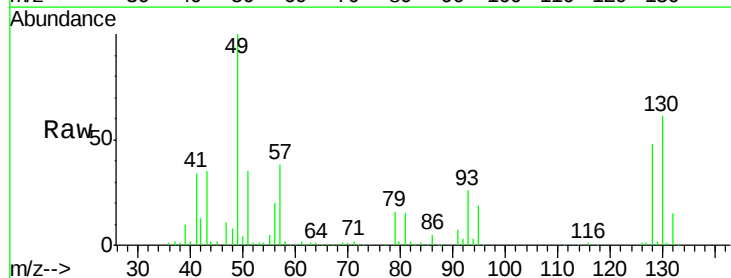
Ion Ratio Lower Upper

43 100

45 10.5 7.9 11.9

61 4.2 7.8 11.8#

70 3.9 5.4 8.0#

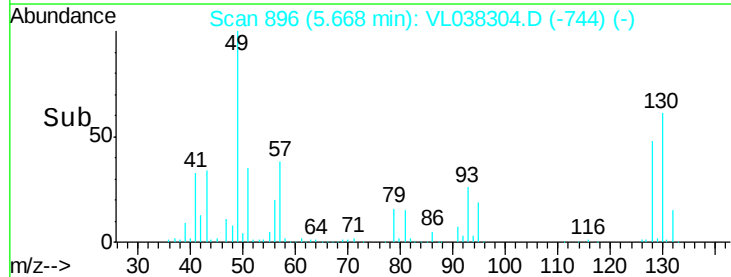
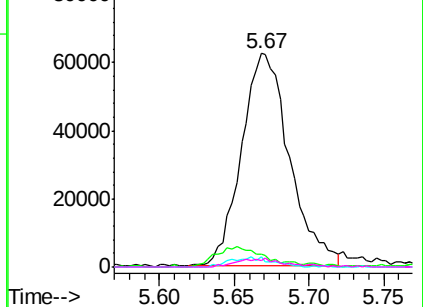


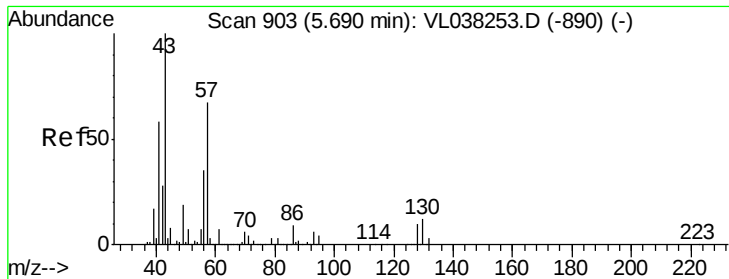
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

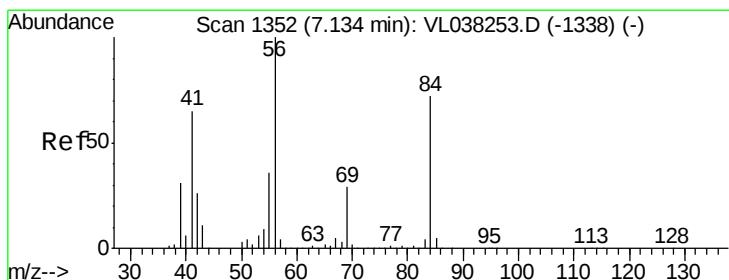
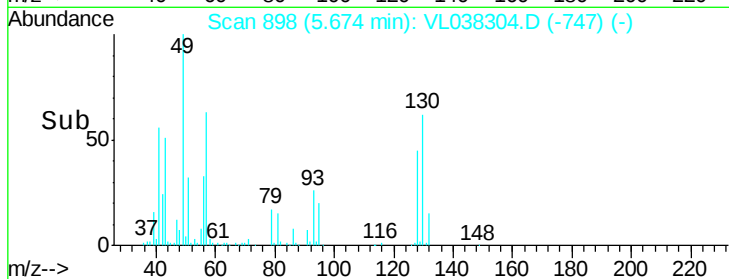
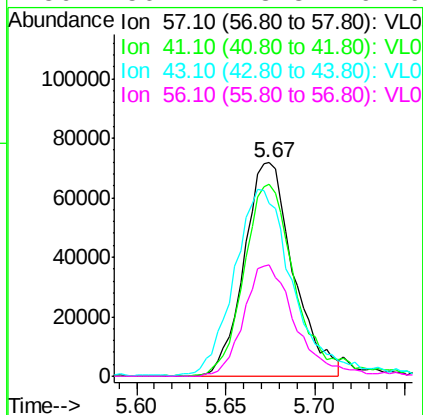
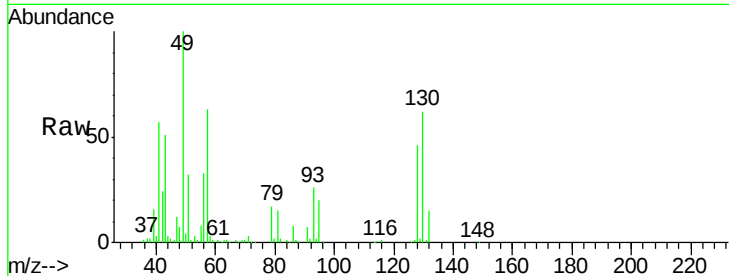
Ion 70.10 (69.80 to 70.80): VL0





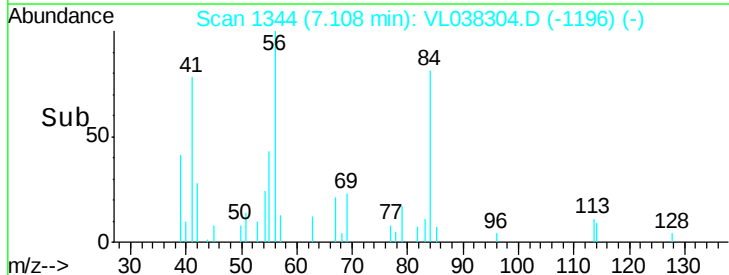
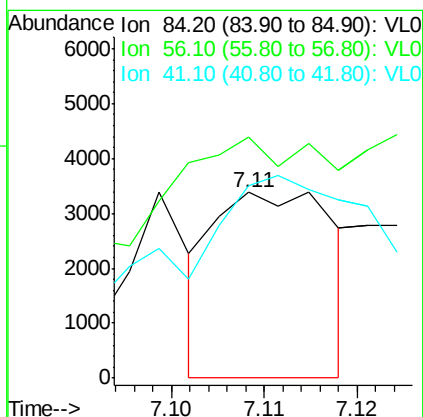
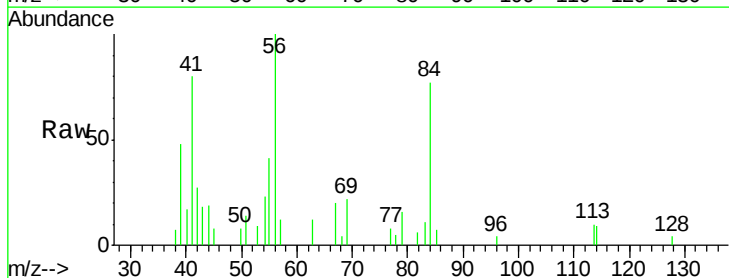
#26
Hexane
Concen: 1.493 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Jan 2022 20:00

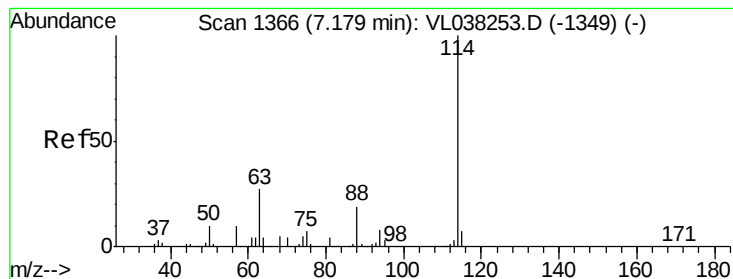
Tgt Ion:	57	Resp:	138692
Ion	Ratio	Lower	Upper
57	100		
41	97.4	72.8	109.2
43	104.8	177.0	265.6#
56	56.1	43.3	64.9



#30
Cyclohexane
Concen: 0.037 ppbv
RT: 7.11 min Scan# 1344
Delta R.T. -0.03 min
Lab File: VL038304.D
Acq: 27 Jan 2022 20:00

Tgt Ion:	84	Resp:	3004
Ion	Ratio	Lower	Upper
84	100		
56	0.0	112.7	169.1#
41	254.7	71.1	106.7#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Jan 2022 20:00

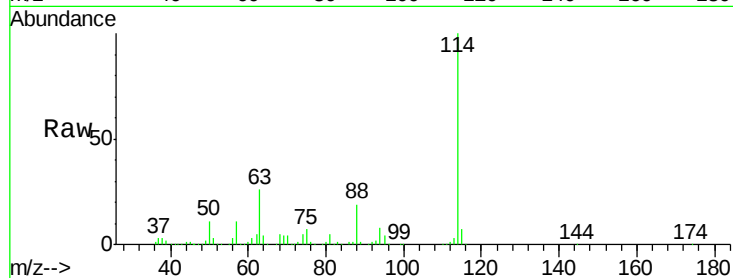
Tgt Ion: 114 Resp: 1992064

Ion Ratio Lower Upper

114 100

63 27.2 22.0 33.0

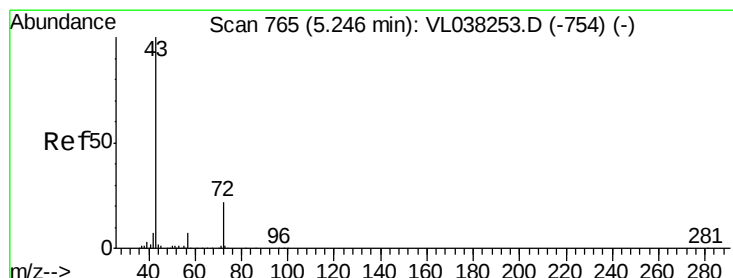
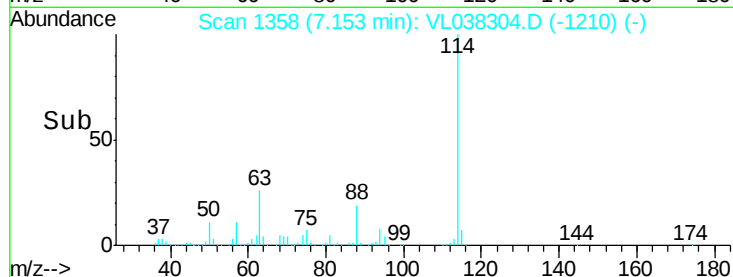
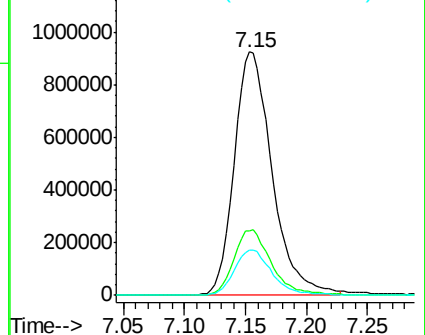
88 19.0 15.0 22.6



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 2.371 ppbv

RT: 5.23 min Scan# 760

Delta R.T. -0.02 min

Lab File: VL038304.D

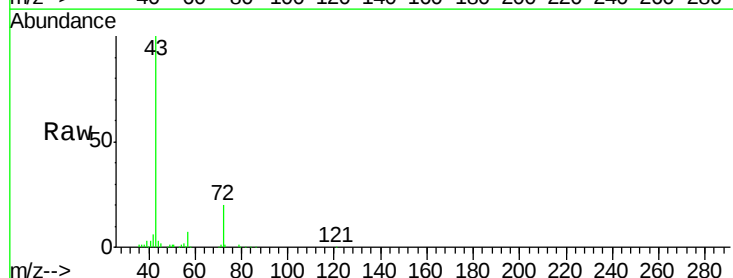
Acq: 27 Jan 2022 20:00

Tgt Ion: 43 Resp: 154429

Ion Ratio Lower Upper

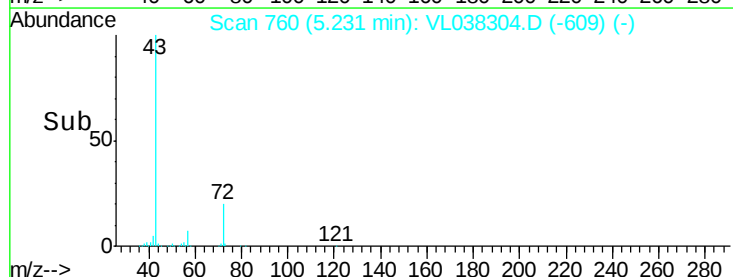
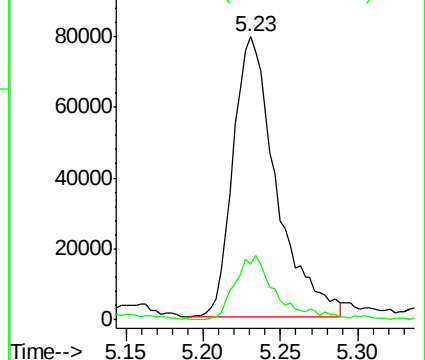
43 100

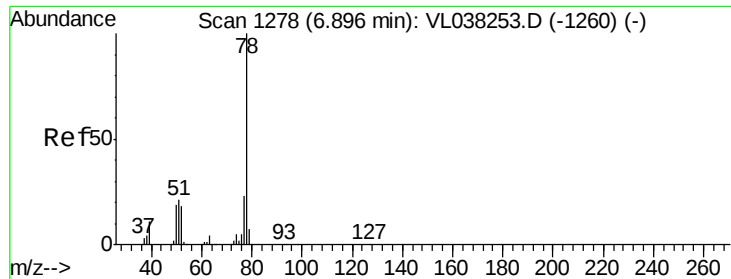
72 23.1 18.1 27.1



Abundance Ion 43.10 (42.80 to 43.80): VL0

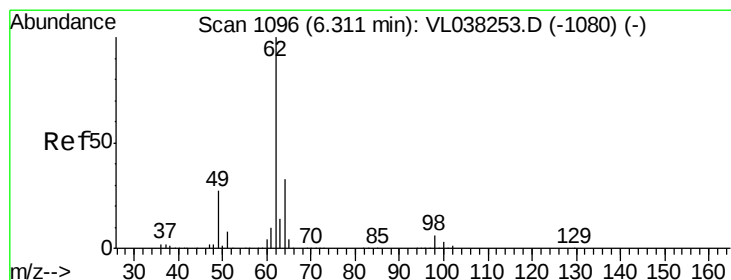
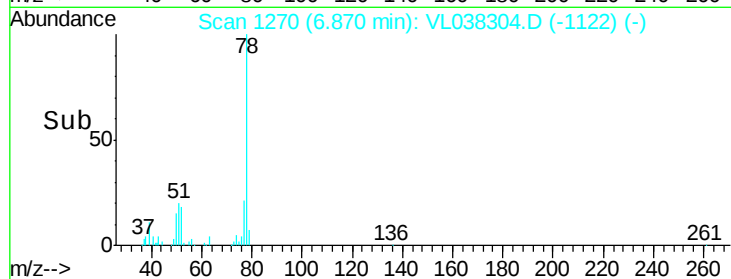
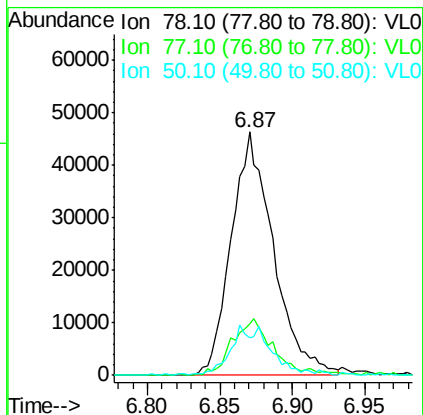
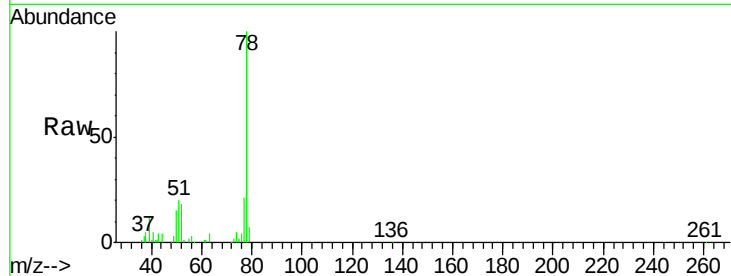
Ion 72.10 (71.80 to 72.80): VL0





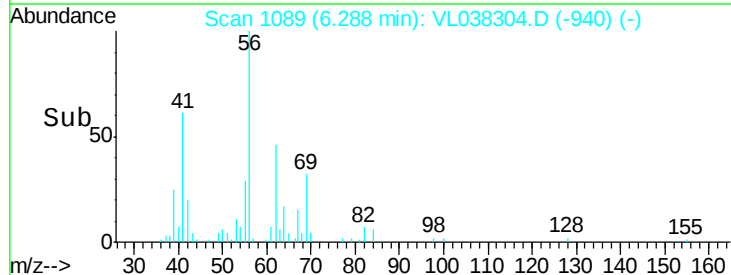
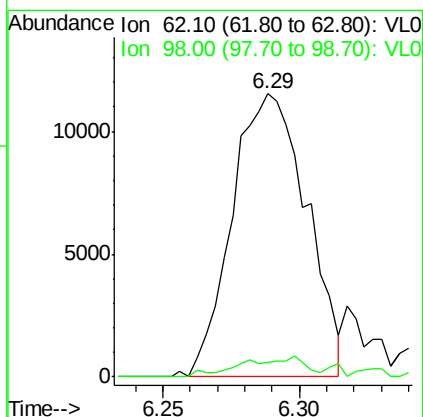
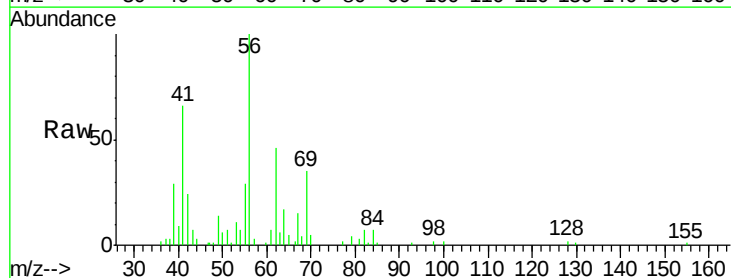
#36
Benzene
Concen: 0.532 ppbv
RT: 6.87
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Jan 2022 20:00

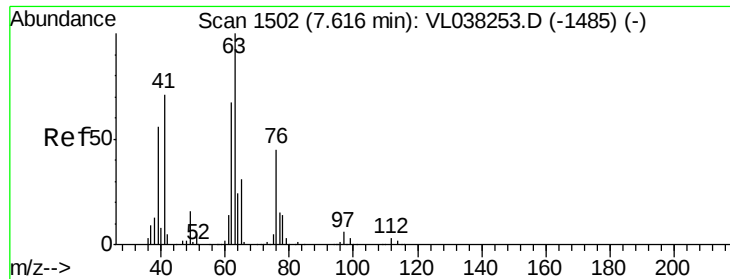
Tgt Ion: 78 Resp: 93686
Ion Ratio Lower Upper
78 100
77 21.0 18.2 27.2
50 15.2 15.1 22.7



#37
1,2-Dichloroethane
Concen: 0.216 ppbv
RT: 6.29 min Scan# 1089
Delta R.T. -0.02 min
Lab File: VL038304.D
Acq: 27 Jan 2022 20:00

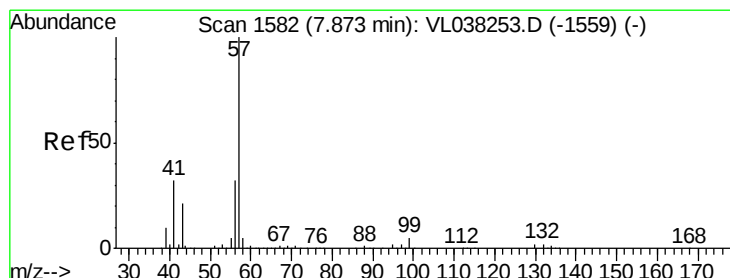
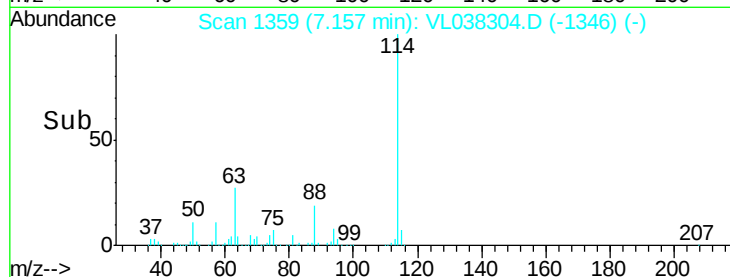
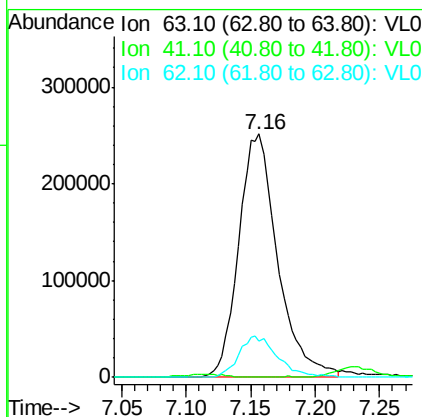
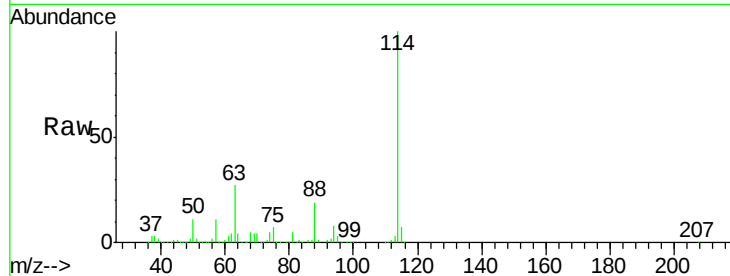
Tgt Ion: 62 Resp: 21801
Ion Ratio Lower Upper
62 100
98 8.2 4.5 6.7#





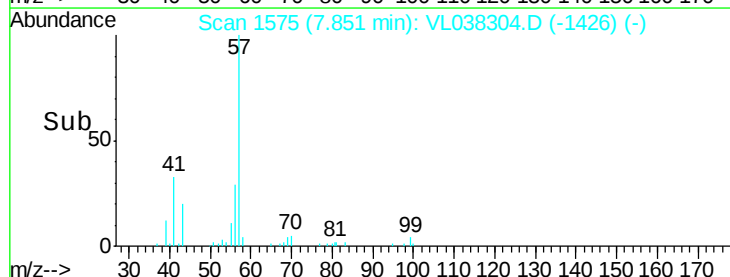
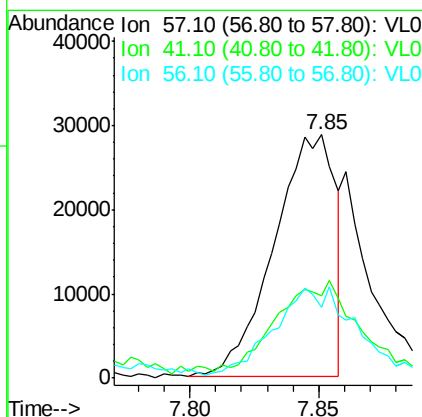
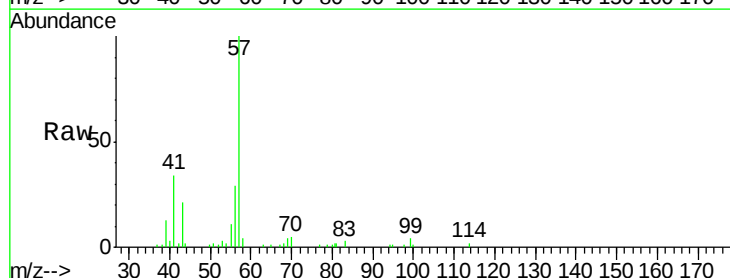
#39
 1,2-Dichloropropane
 Concen: 7.397 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Jan 2022 20:00

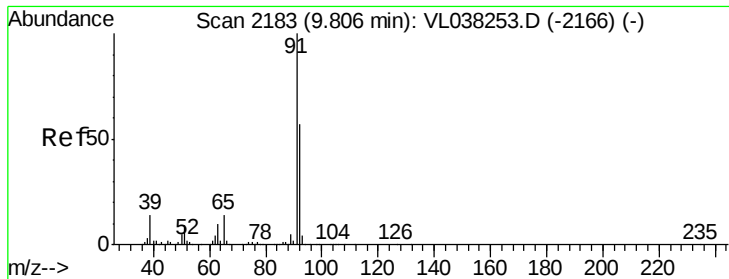
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	56.6	85.0#
62	14.8	53.9	80.9#



#44
 2,2,4-Trimethylpentane
 Concen: 0.152 ppbv
 RT: 7.85 min Scan# 1575
 Delta R.T. -0.02 min
 Lab File: VL038304.D
 Acq: 27 Jan 2022 20:00

Tgt Ion	Ratio	Lower	Upper
57	100		
41	53.5	26.3	39.5#
56	54.8	25.2	37.8#





#53

Toluene

Concen: 1.807 ppbv

RT: 9.78 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

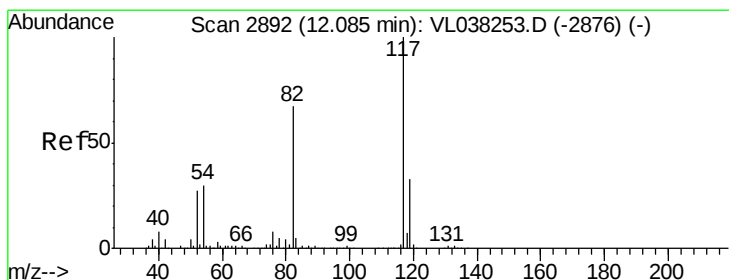
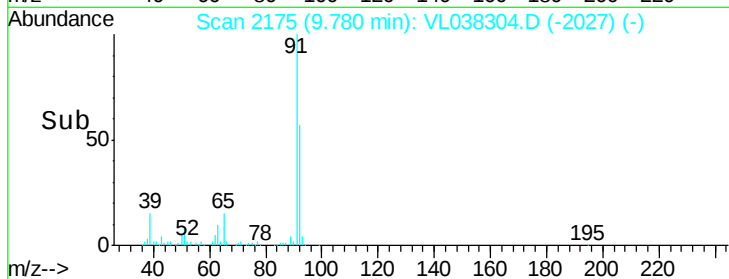
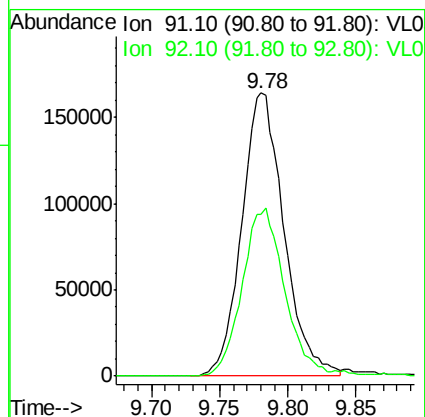
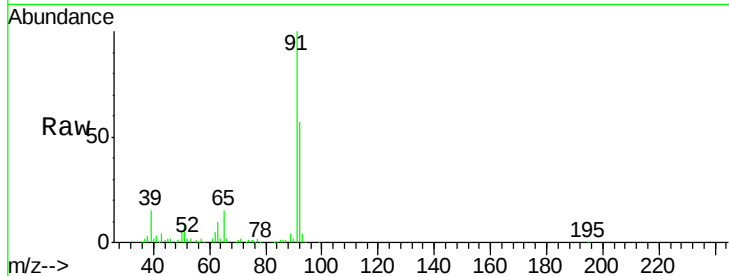
Acq: 27 Jan 2022 20:00

Tgt Ion: 91 Resp: 352420

Ion Ratio Lower Upper

91 100

92 60.2 47.4 71.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.06 min Scan# 2884

Delta R.T. -0.03 min

Lab File: VL038304.D

Acq: 27 Jan 2022 20:00

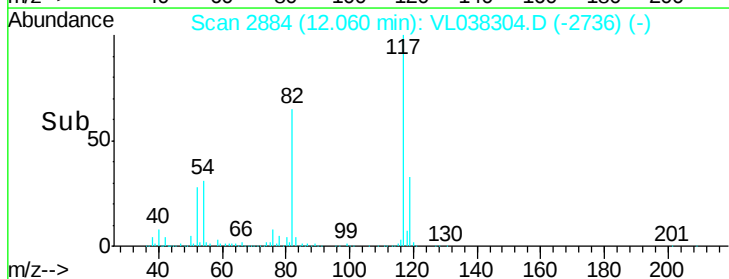
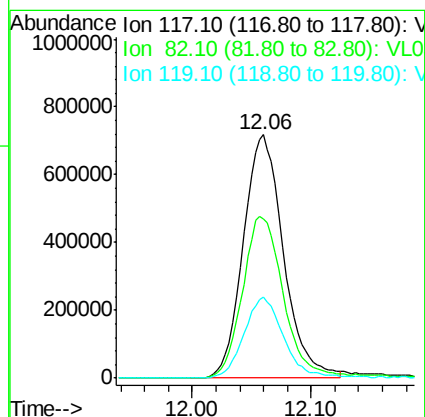
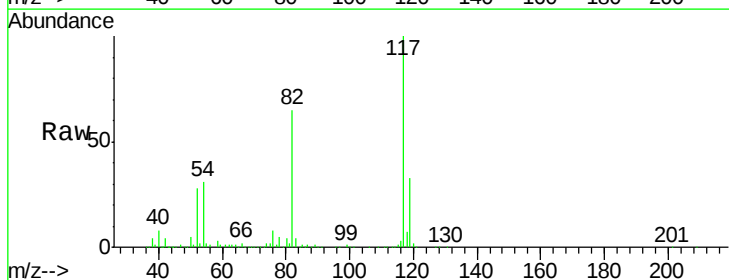
Tgt Ion: 117 Resp: 1680271

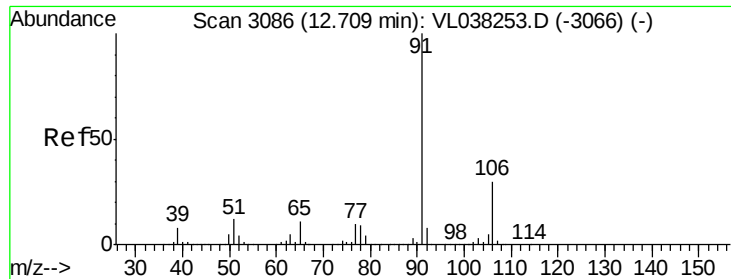
Ion Ratio Lower Upper

117 100

82 69.3 54.4 81.6

119 33.5 45.9 68.9#





#58

Ethyl Benzene

Concen: 0.152 ppbv

RT: 12.69

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

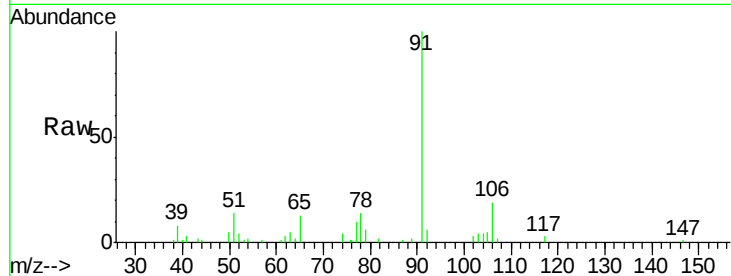
Acq: 27 Jan 2022 20:00

Tgt Ion: 91 Resp: 37492

Ion Ratio Lower Upper

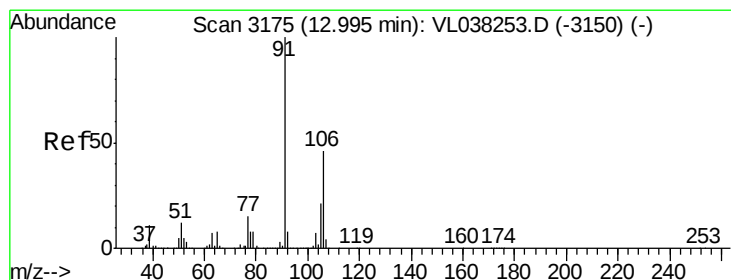
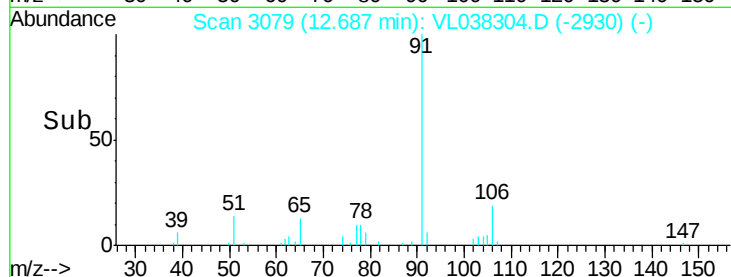
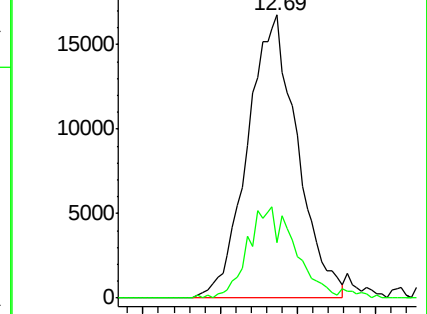
91 100

106 19.4 24.1 36.1#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.065 ppbv

RT: 12.97 min Scan# 3168

Delta R.T. -0.02 min

Lab File: VL038304.D

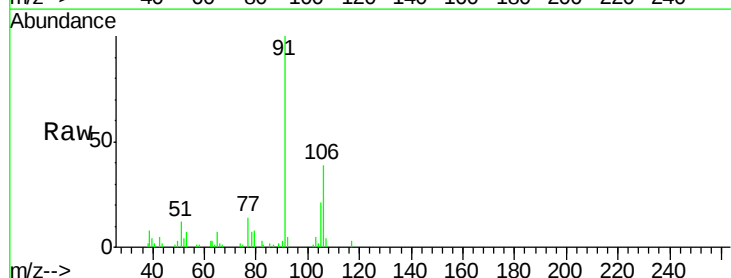
Acq: 27 Jan 2022 20:00

Tgt Ion: 91 Resp: 13668

Ion Ratio Lower Upper

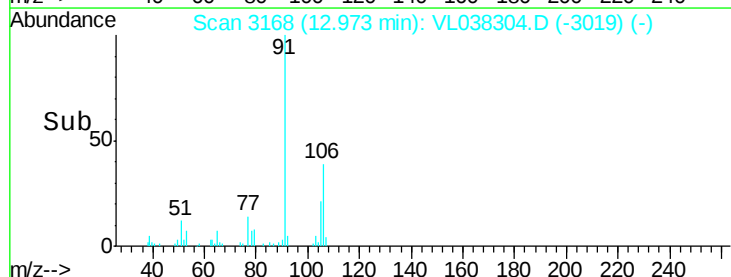
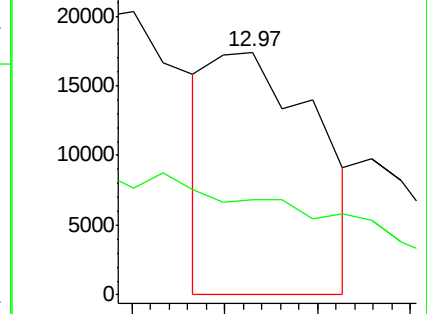
91 100

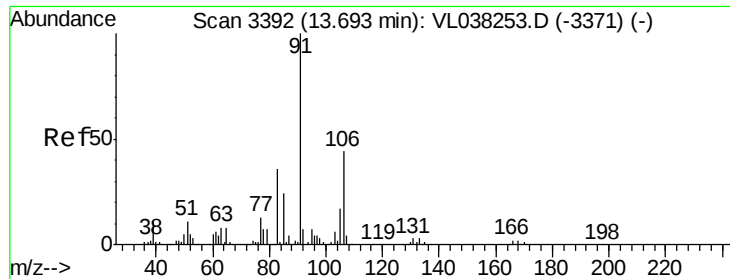
106 0.0 34.8 52.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

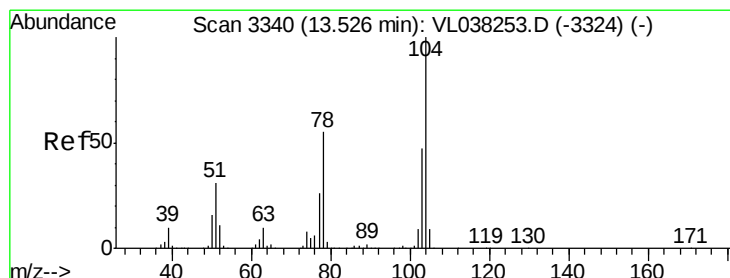
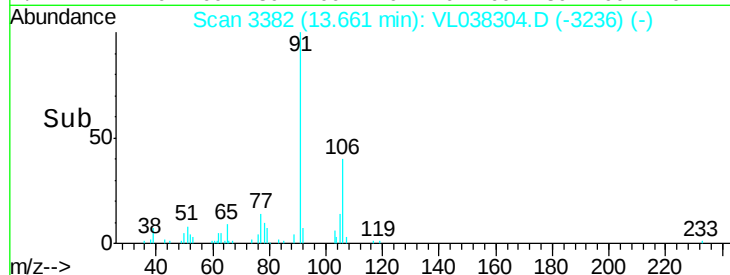
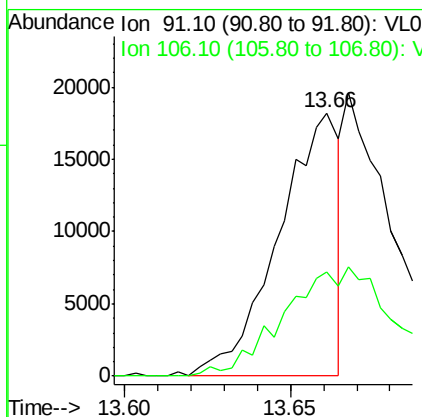
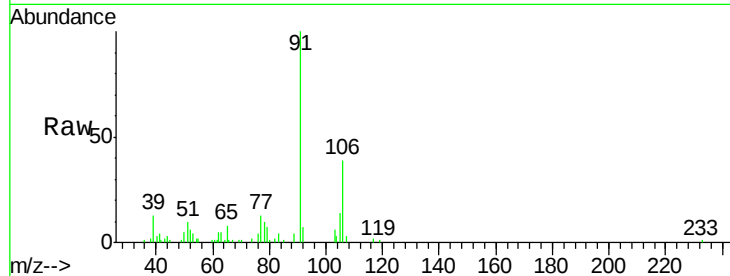
Ion 106.10 (105.80 to 106.80): V





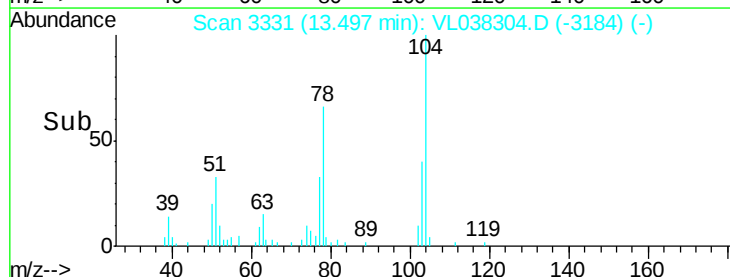
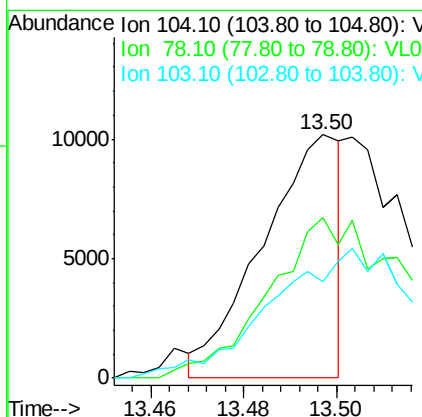
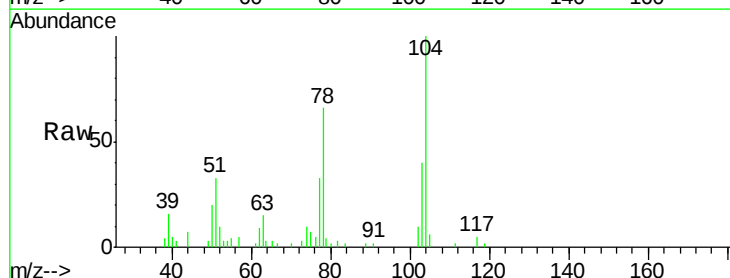
#60
o-Xylene
Concen: 0.118 ppbv
RT: 13.66
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Jan 2022 20:00

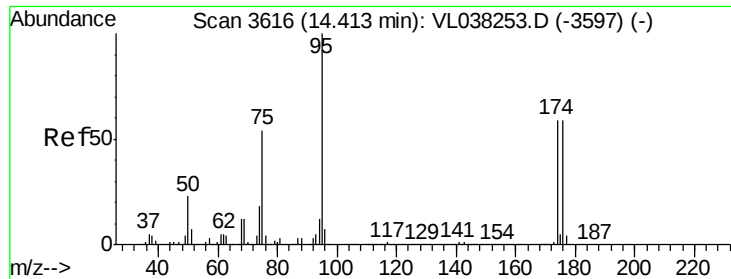
Tgt Ion: 91 Resp: 23197
Ion Ratio Lower Upper
91 100
106 0.0 22.2 66.6#



#61
Styrene
Concen: 0.130 ppbv
RT: 13.50 min Scan# 3331
Delta R.T. -0.03 min
Lab File: VL038304.D
Acq: 27 Jan 2022 20:00

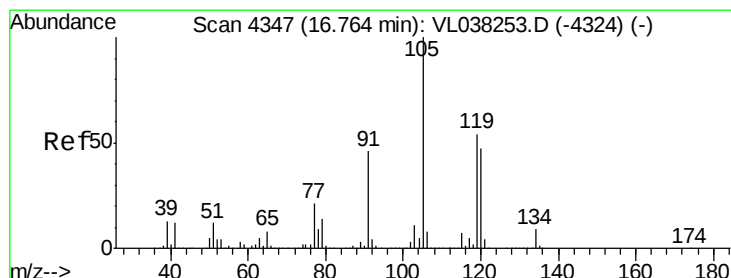
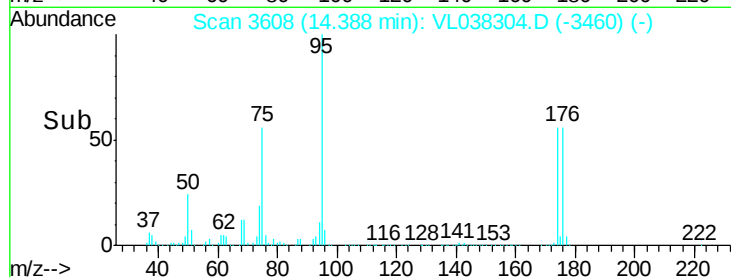
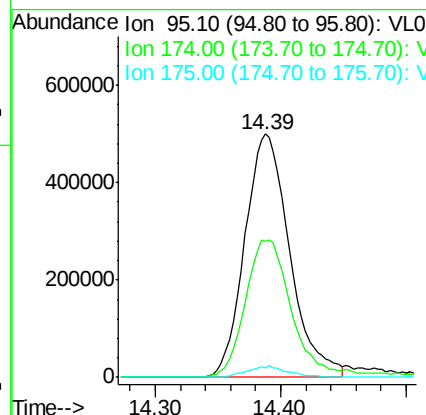
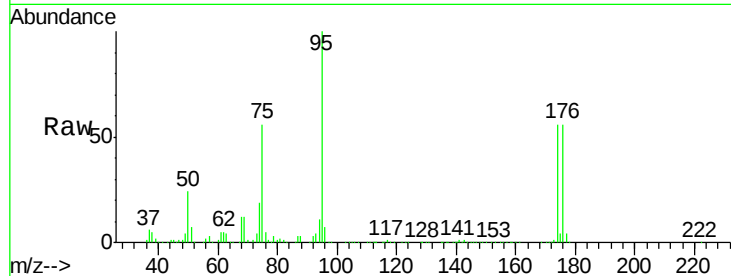
Tgt Ion: 104 Resp: 11923
Ion Ratio Lower Upper
104 100
78 123.9 44.2 66.4#
103 0.0 38.2 57.4#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.753 ppbv
 RT: 14.39
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Jan 2022 20:00

Tgt Ion: 95 Resp: 1243845
 Ion Ratio Lower Upper
 95 100
 174 61.3 48.3 72.5
 175 4.4 3.5 5.3



#74
 1,2,4-Trimethylbenzene
 Concen: 0.093 ppbv
 RT: 16.73 min Scan# 4338
 Delta R.T. -0.03 min
 Lab File: VL038304.D
 Acq: 27 Jan 2022 20:00

Tgt Ion: 105 Resp: 18010
 Ion Ratio Lower Upper
 105 100
 120 33.5 37.2 55.8#
 91 4.4 36.6 55.0#
 77 13.1 16.9 25.3#

