

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112921\
 Data File : VL038141.D
 Acq On : 29 Nov 2021 18:54
 Operator : SY/AP
 Sample : M4827-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Quant Time: Nov 30 05:16:57 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Nov 18 13:16:09 2021
 QLast Update : Thu Nov 18 13:16:09 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	649066	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2522867	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2197810	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1760558	11.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	111.10%

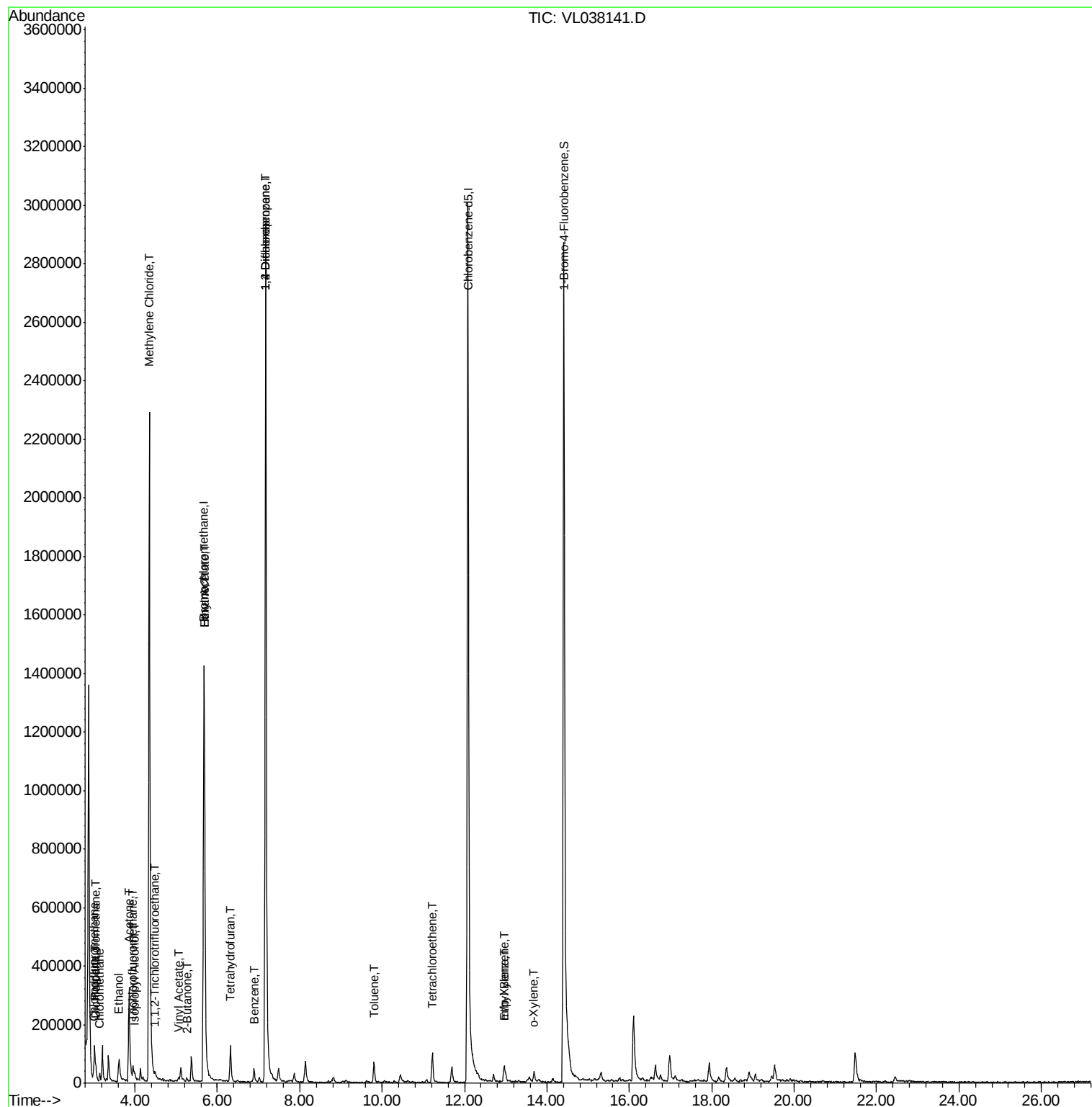
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	40359	0.376	ppbv	94
3) Chlorodifluoromethane	3.00	51	46271	0.339	ppbv	92
4) Chloromethane	3.15	50	27777	0.599	ppbv #	85
9) Propene	3.02	41	28250	0.563	ppbv	87
11) Trichlorofluoromethane	3.95	101	29768	0.292	ppbv	84
12) 1,1,2-Trichlorotrifluoroet	4.48	101	3109	0.043	ppbv #	13
13) Ethanol	3.61	45	53756	11.081	ppbv #	32
15) Acetone	3.85	43	439883	7.817	ppbv	98
19) Isopropyl Alcohol	3.99	45	17155	0.422	ppbv #	21
20) Methylene Chloride	4.35	84	1017579	32.283	ppbv	99
23) Vinyl Acetate	5.07	43	2728	0.033	ppbv #	80
25) Ethyl Acetate	5.69	43	284972	1.524	ppbv #	77
26) Hexane	5.69	57	386041	4.282	ppbv #	45
34) 2-Butanone	5.25	43	10042	0.099	ppbv #	66
36) Benzene	6.90	78	38292	0.152	ppbv #	92
39) 1,2-Dichloropropane	7.17	63	664888	6.887	ppbv #	27
41) Tetrahydrofuran	6.31	42	4809	0.076	ppbv #	36
52) Tetrachloroethene	11.22	164	16911	0.182	ppbv	93
53) Toluene	9.80	91	52606	0.182	ppbv	97
58) Ethyl Benzene	12.97	91	26843	0.074	ppbv	98
59) m/p-Xylene	12.97	91	26843	0.088	ppbv #	29
60) o-Xylene	13.68	91	16231	0.057	ppbv #	46

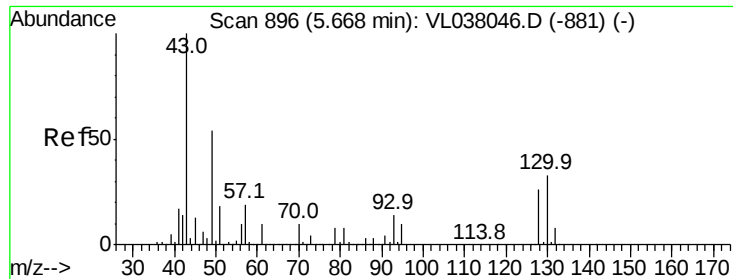
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Nov 2021 18:54

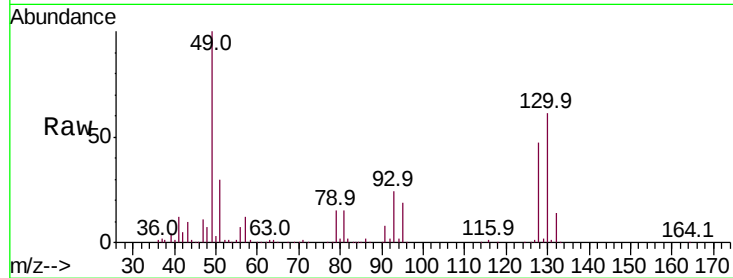
Tot Ion: 49 Resp: 649066

Ion Ratio Lower Upper

49 100

128 48.8 26.5 79.5

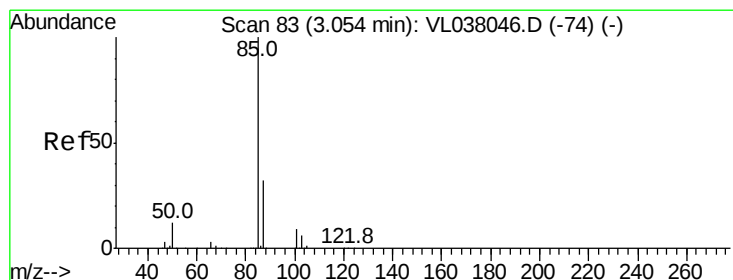
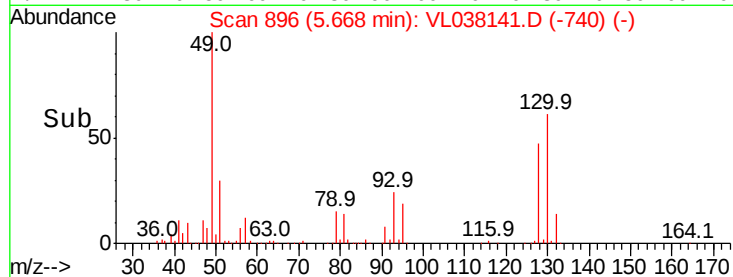
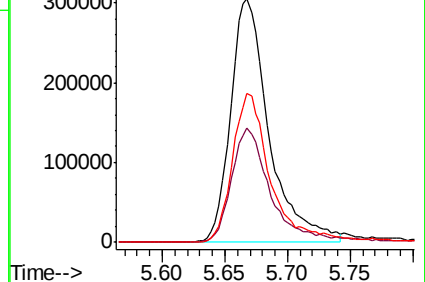
130 61.8 32.5 97.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.376 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.00 min

Lab File: VL038141.D

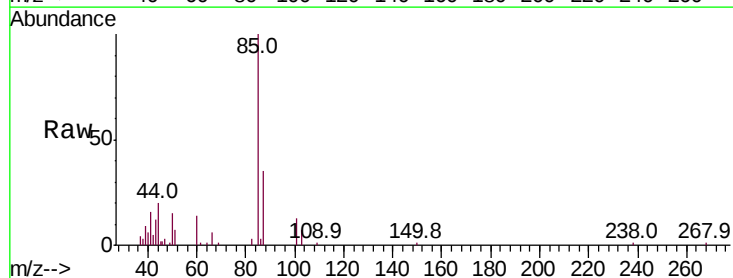
Acq: 29 Nov 2021 18:54

Tgt Ion: 85 Resp: 40359

Ion Ratio Lower Upper

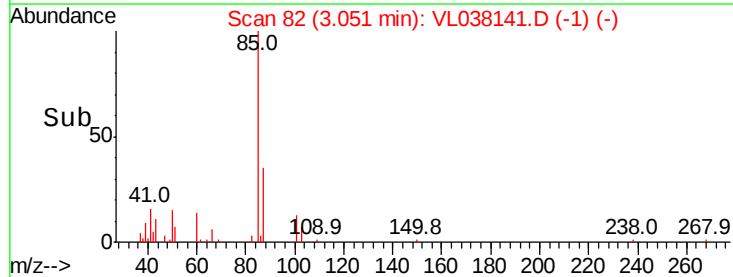
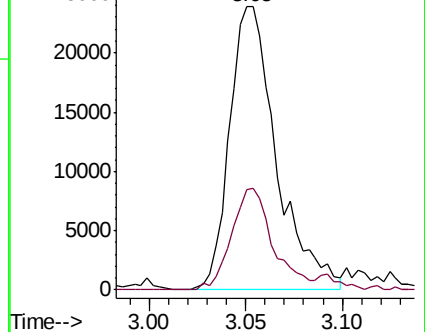
85 100

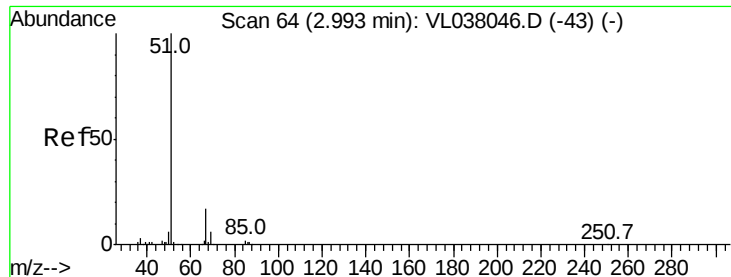
87 35.5 25.8 38.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.339 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

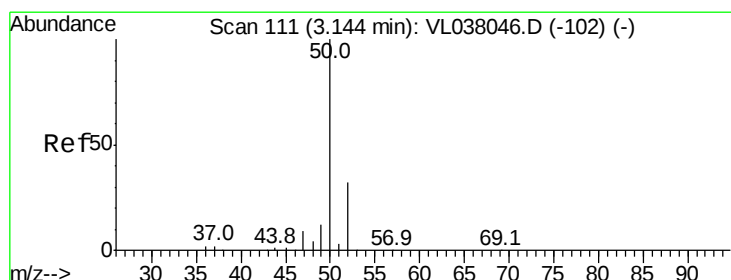
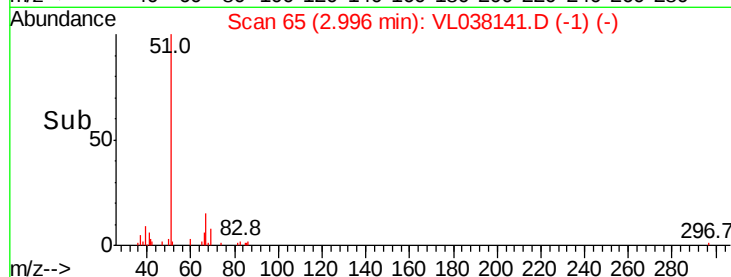
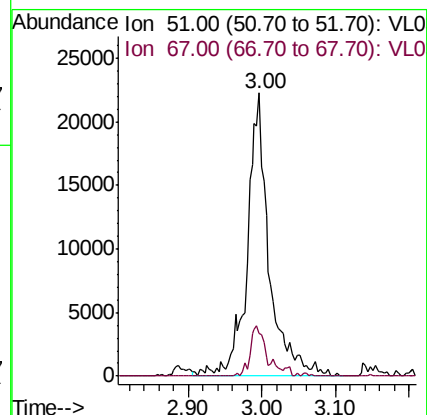
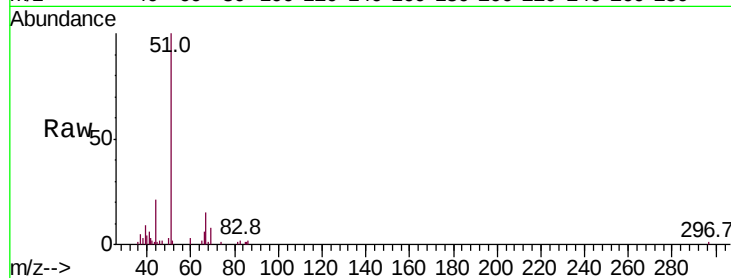
Acq: 29 Nov 2021 18:54

Tot Ion: 51 Resp: 46271

Ion Ratio Lower Upper

51 100

67 13.9 13.8 20.8



#4

Chloromethane

Concen: 0.599 ppbv

RT: 3.15 min Scan# 113

Delta R.T. 0.01 min

Lab File: VL038141.D

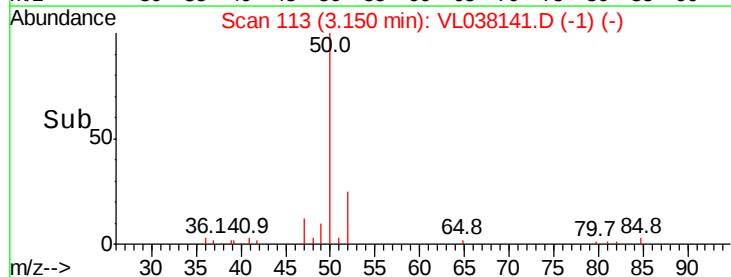
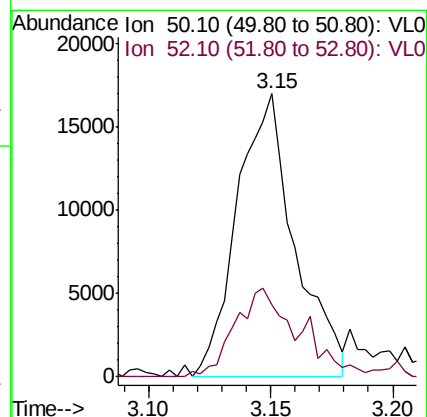
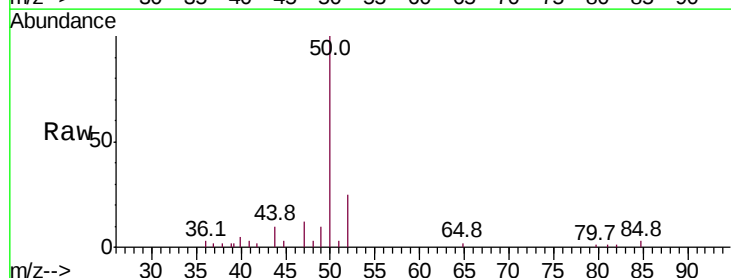
Acq: 29 Nov 2021 18:54

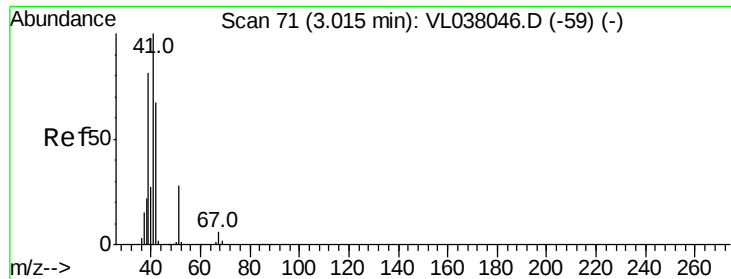
Tgt Ion: 50 Resp: 27777

Ion Ratio Lower Upper

50 100

52 23.5 25.4 38.0#





#9

Propene

Concen: 0.563 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

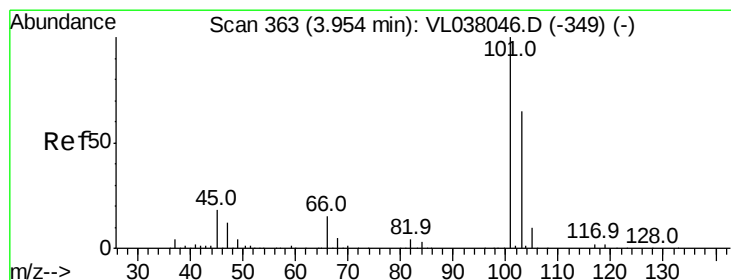
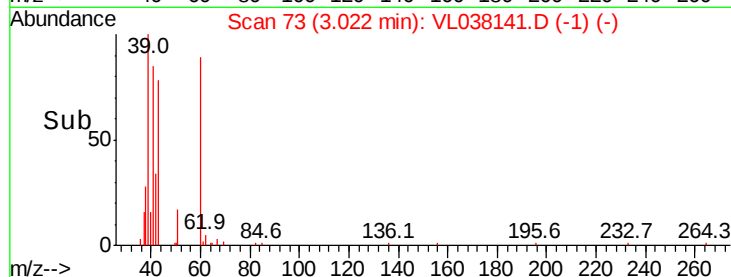
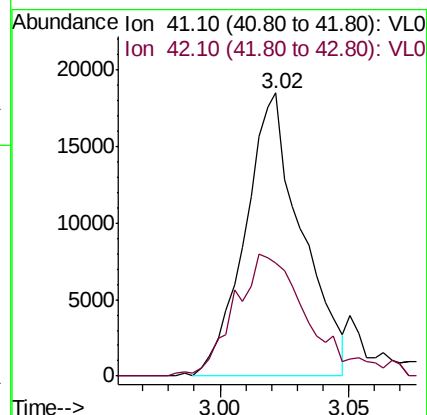
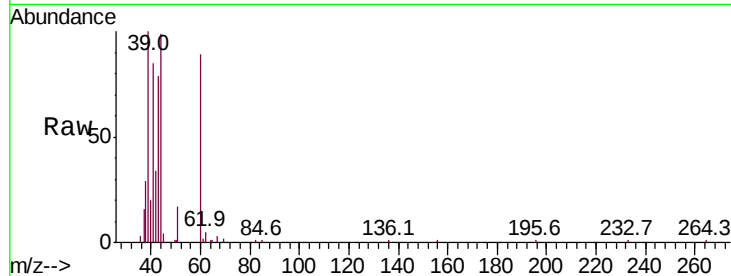
Acq: 29 Nov 2021 18:54

Tot Ion: 41 Resp: 28250

Ion Ratio Lower Upper

41 100

42 57.1 53.8 80.8



#11

Trichlorofluoromethane

Concen: 0.292 ppbv

RT: 3.95 min Scan# 363

Delta R.T. 0.00 min

Lab File: VL038141.D

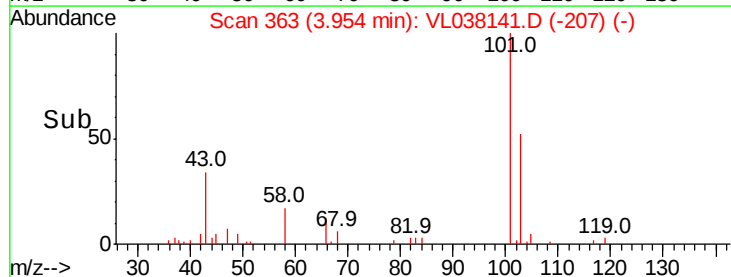
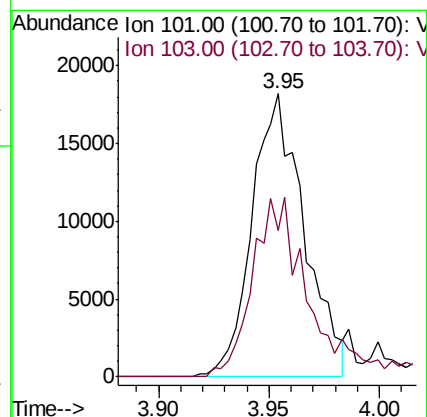
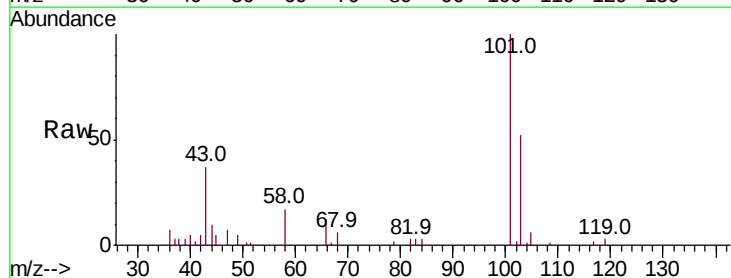
Acq: 29 Nov 2021 18:54

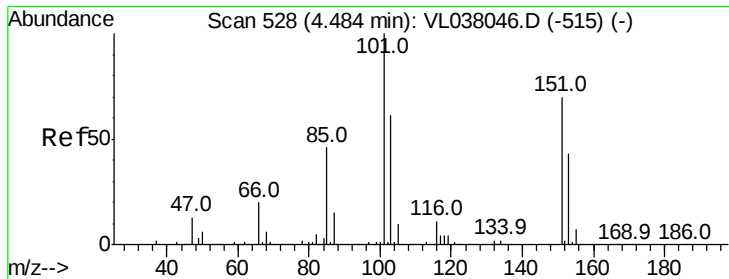
Tgt Ion:101 Resp: 29768

Ion Ratio Lower Upper

101 100

103 51.8 51.8 77.6





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.043 ppbv

RT: 4.48 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

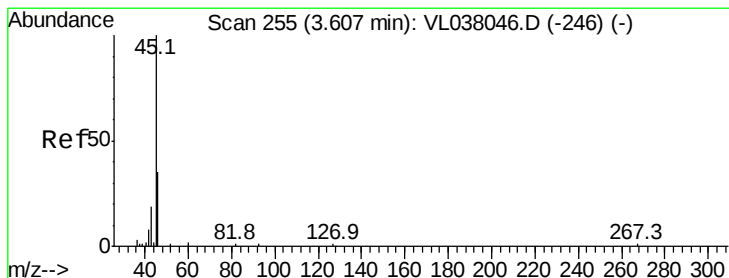
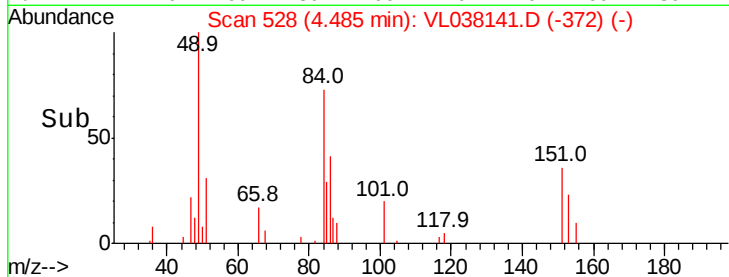
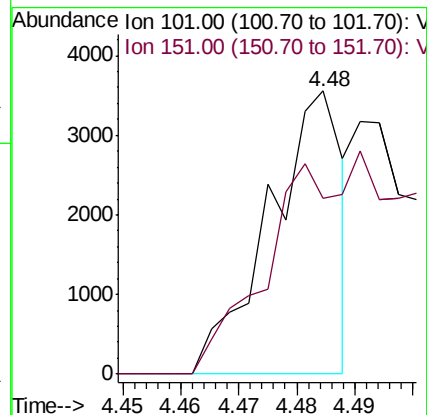
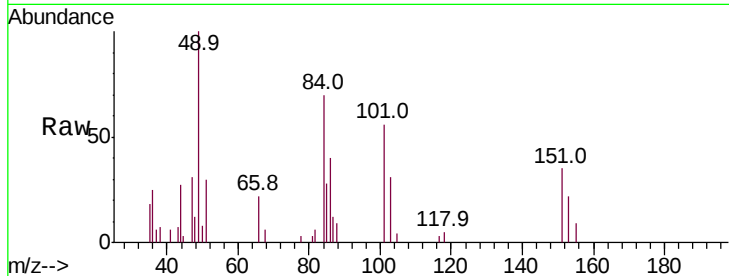
Acq: 29 Nov 2021 18:54

Tot Ion: 101 Resp: 3109

Ion Ratio Lower Upper

101 100

151 0.0 59.0 88.4#



#13

Ethanol

Concen: 11.081 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.00 min

Lab File: VL038141.D

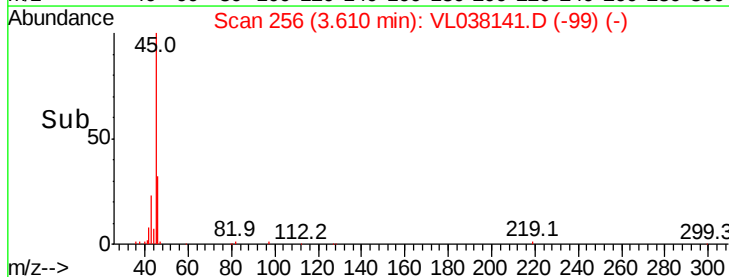
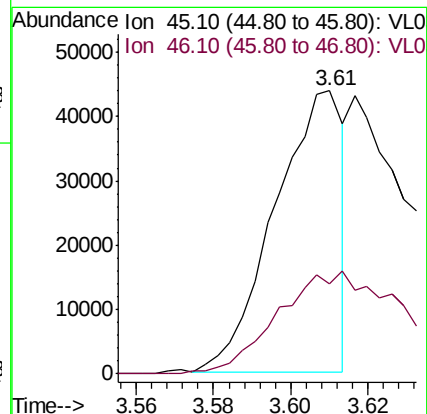
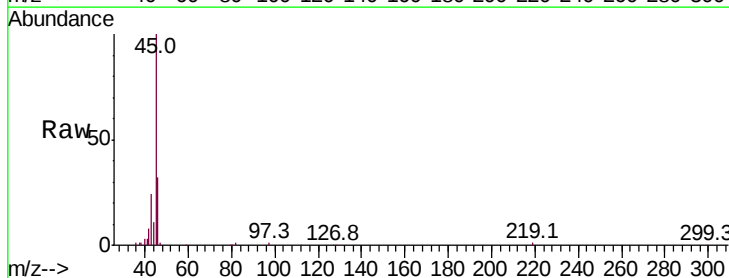
Acq: 29 Nov 2021 18:54

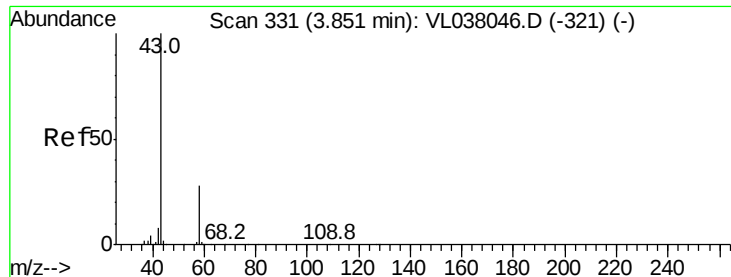
Tgt Ion: 45 Resp: 53756

Ion Ratio Lower Upper

45 100

46 0.0 17.6 70.2#





#15

Acetone

Concen: 7.817 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

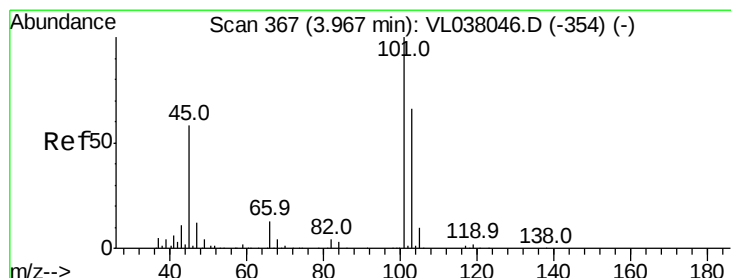
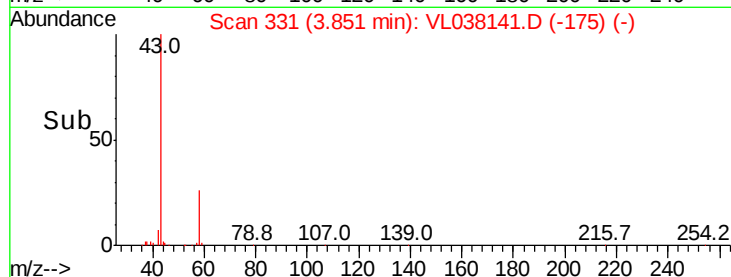
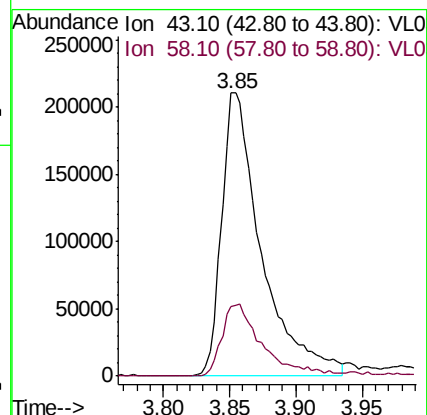
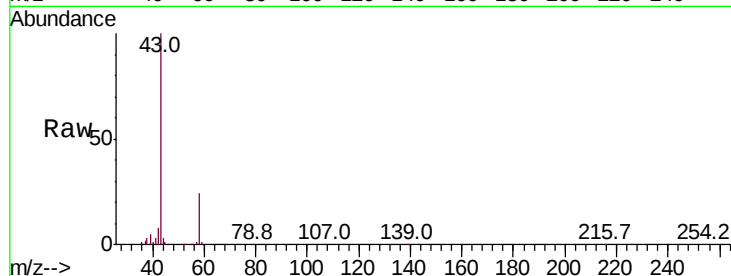
Acq: 29 Nov 2021 18:54

Tot Ion: 43 Resp: 439883

Ion Ratio Lower Upper

43 100

58 26.8 22.4 33.6



#19

Isopropyl Alcohol

Concen: 0.422 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL038141.D

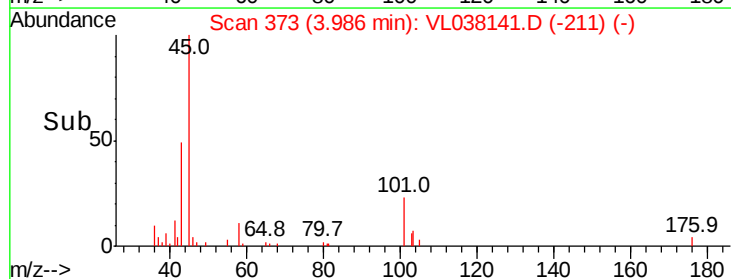
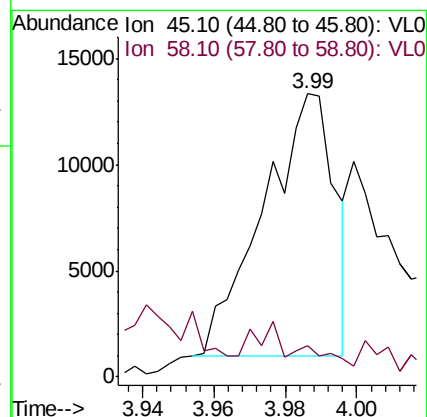
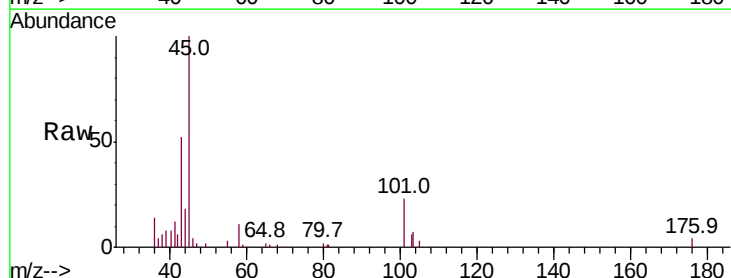
Acq: 29 Nov 2021 18:54

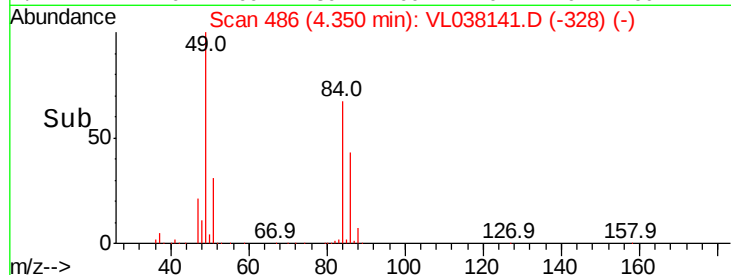
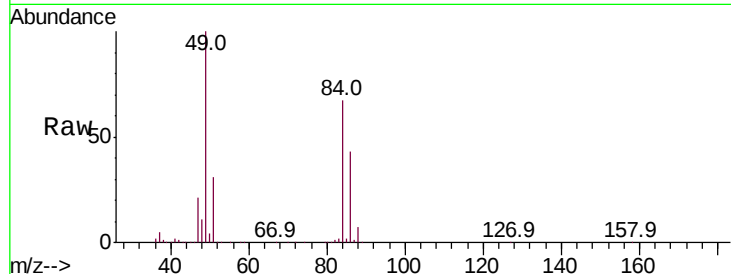
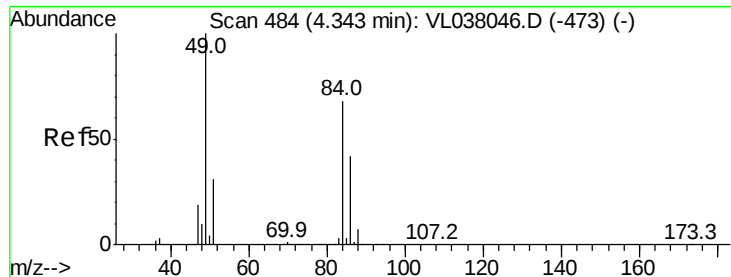
Tgt Ion: 45 Resp: 17155

Ion Ratio Lower Upper

45 100

58 30.5 1.4 2.0#





#20

Methvlene Chloride

Concen: 32.283 ppbv

RT: 4.35

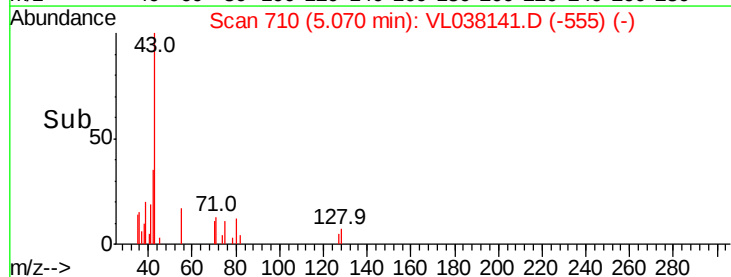
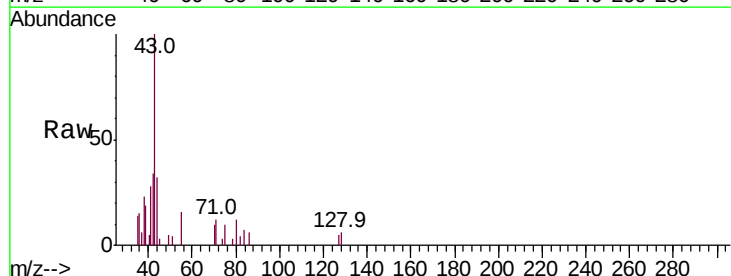
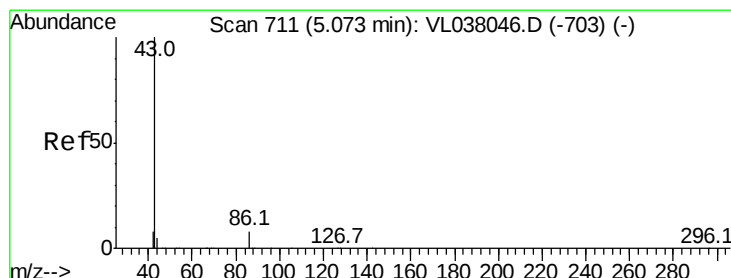
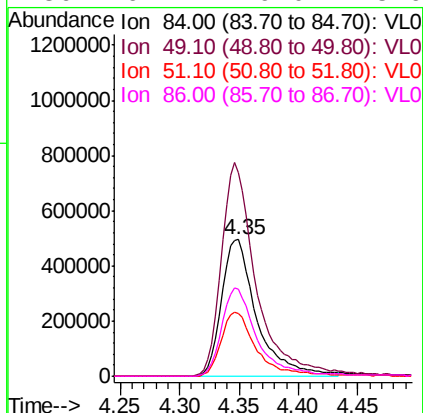
Delta R.T. MSVOA_1

Lab File: ClientSampleId : AA-1

Acq: 29 Nov 2021 18:54

Tot Ion: 84 Resp: 1017579

Ion	Ratio	Lower	Upper
84	100		
49	148.8	118.2	177.2
51	45.8	36.8	55.2
86	64.1	49.0	73.6



#23

Vinyl Acetate

Concen: 0.033 ppbv

RT: 5.07 min Scan# 710

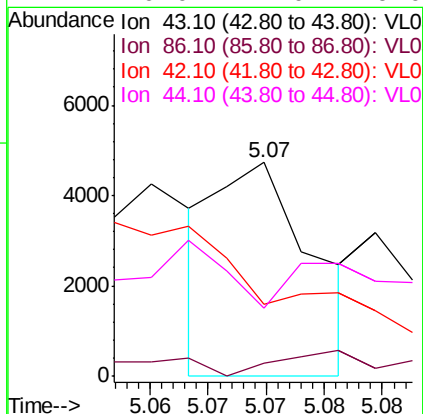
Delta R.T. -0.00 min

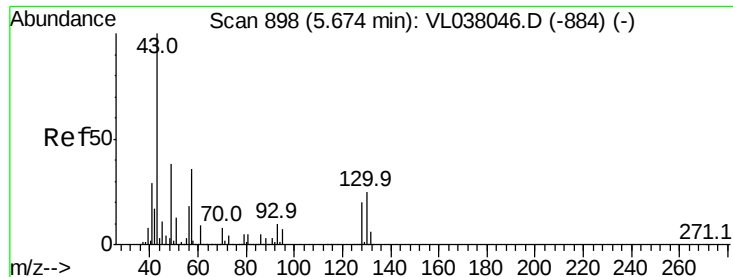
Lab File: VL038141.D

Acq: 29 Nov 2021 18:54

Tgt Ion: 43 Resp: 2728

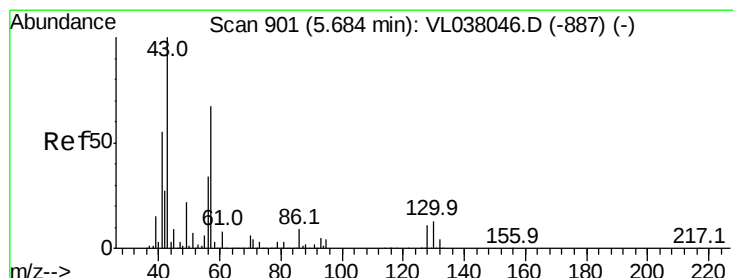
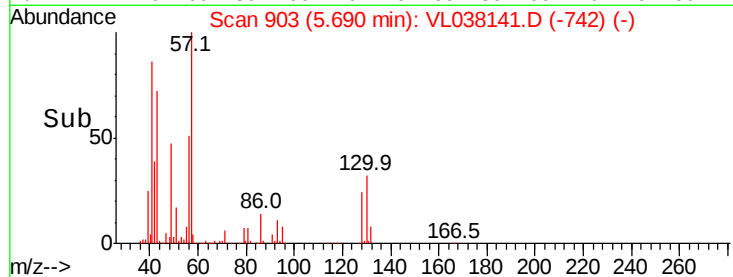
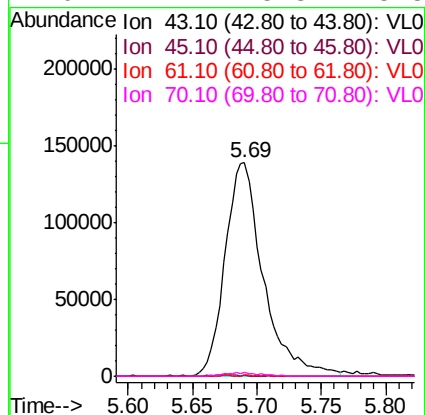
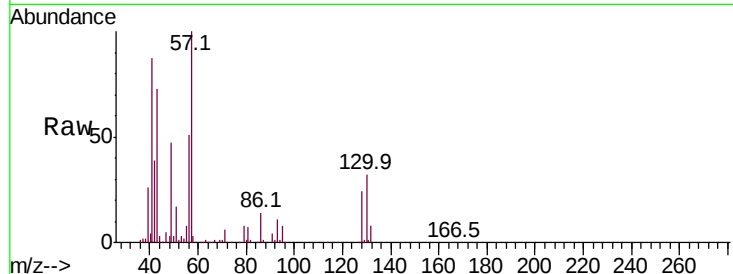
Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.3	7.9#
42	0.0	7.0	10.6#
44	0.0	4.0	6.0#





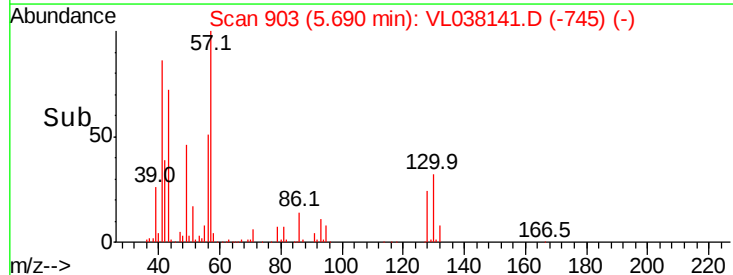
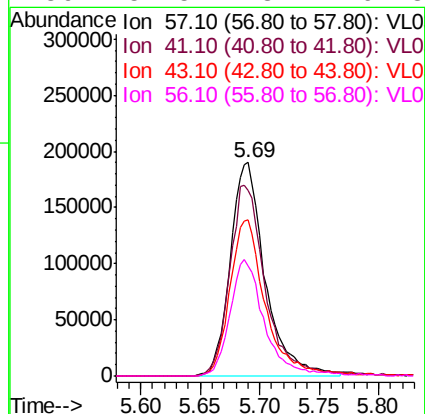
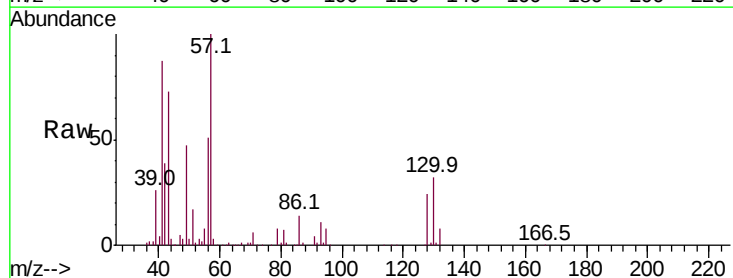
#25
Ethyl Acetate
Concen: 1.524 ppbv
RT: 5.69 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 29 Nov 2021 18:54

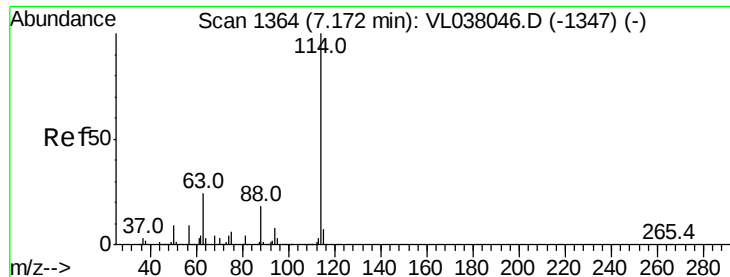
Tot Ion	Ratio	Lower	Upper
43	100		
45	0.1	7.9	11.9#
61	0.2	7.8	11.6#
70	1.7	5.8	8.8#



#26
Hexane
Concen: 4.282 ppbv
RT: 5.69 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL038141.D
Acq: 29 Nov 2021 18:54

Tgt Ion	Ratio	Lower	Upper
57	100		
41	92.4	71.4	107.2
43	75.4	174.6	261.8#
56	54.5	43.2	64.8





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 29 Nov 2021 18:54

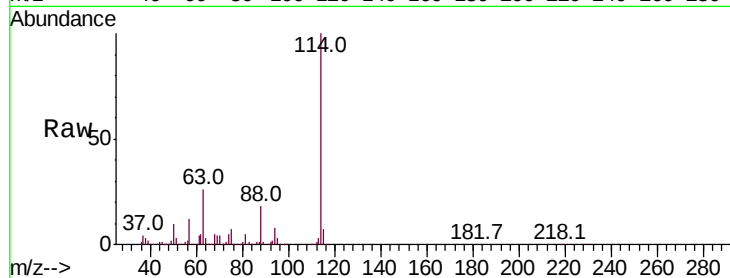
Tot Ion:114 Resp: 2522867

Ion Ratio Lower Upper

114 100

63 26.6 19.7 29.5

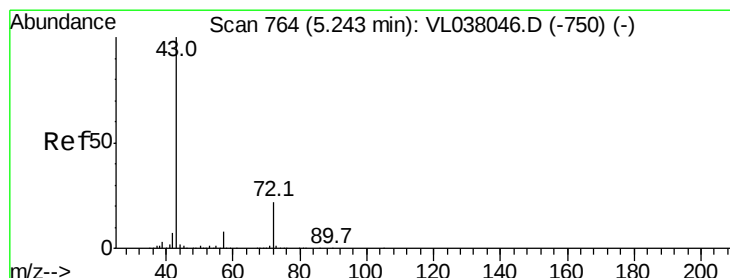
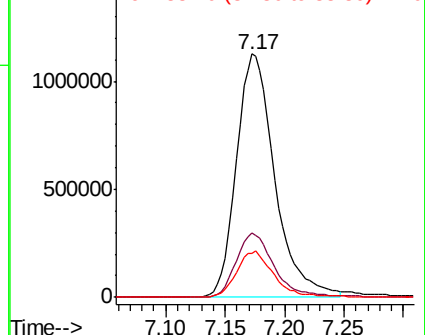
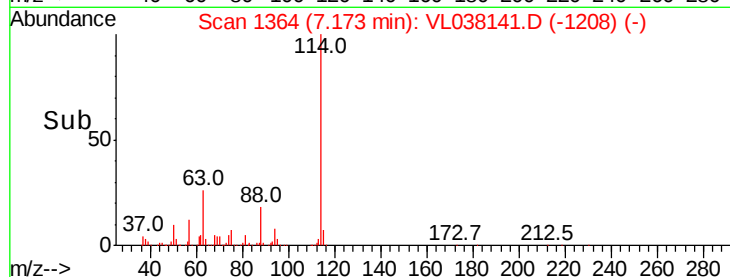
88 18.6 14.4 21.6



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: 0.099 ppbv

RT: 5.25 min Scan# 767

Delta R.T. 0.01 min

Lab File: VL038141.D

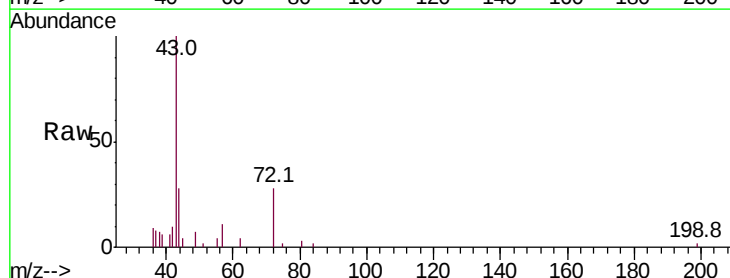
Acq: 29 Nov 2021 18:54

Tgt Ion: 43 Resp: 10042

Ion Ratio Lower Upper

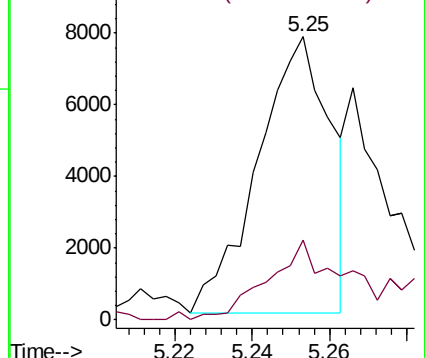
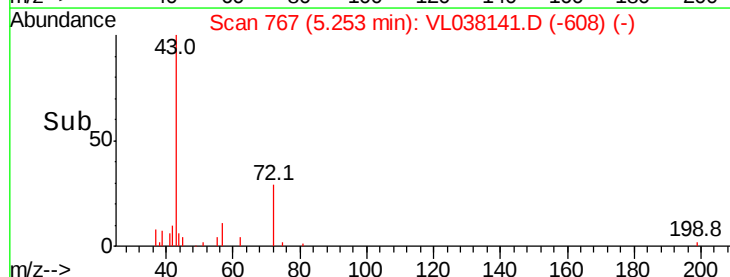
43 100

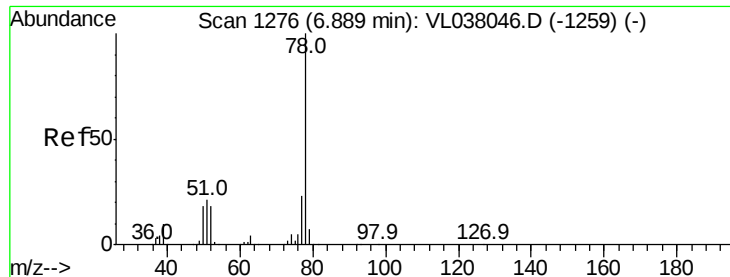
72 40.2 18.8 28.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.152 ppbv

RT: 6.90 Instrument:

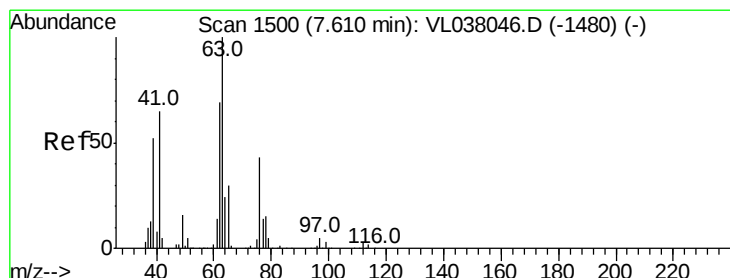
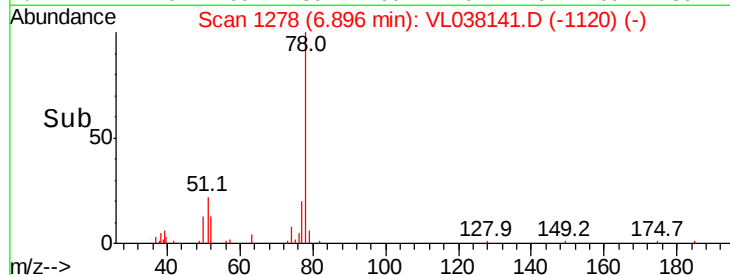
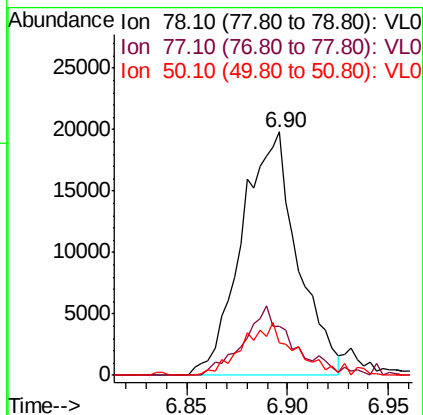
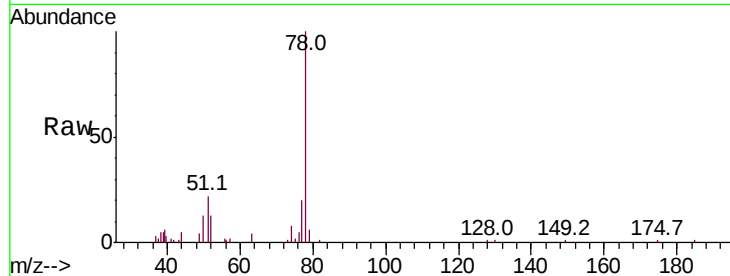
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Nov 2021 18:54

Tot Ion: 78 Resp: 38292

Ion	Ratio	Lower	Upper
78	100		
77	20.1	18.2	27.4
50	13.4	14.7	22.1#



#39

1,2-Dichloropropane

Concen: 6.887 ppbv

RT: 7.17 min Scan# 1364

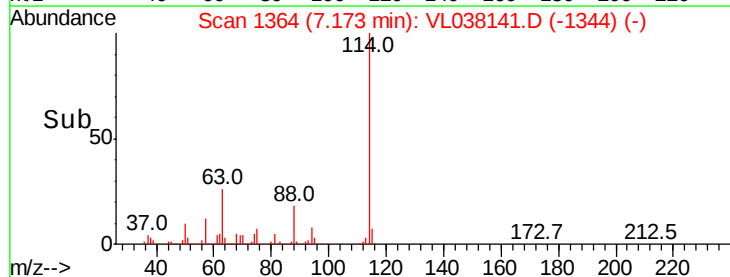
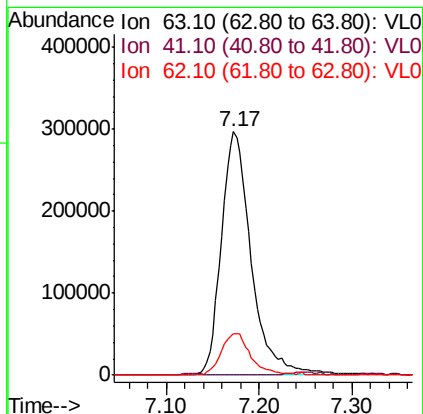
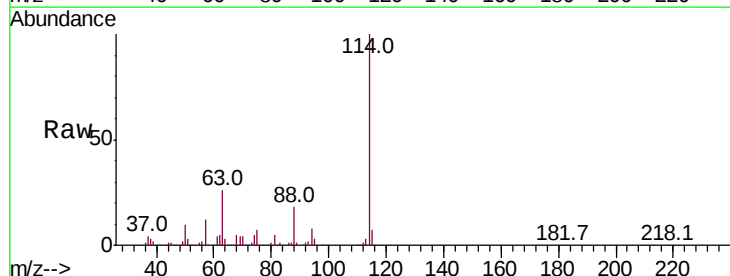
Delta R.T. -0.44 min

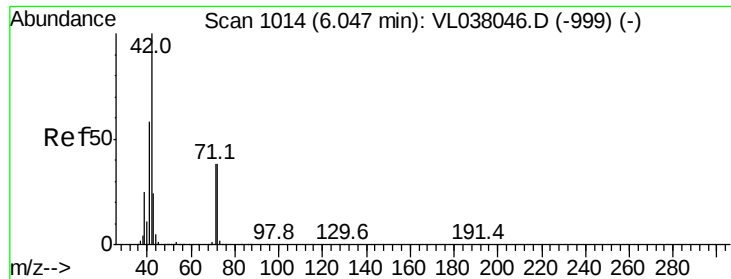
Lab File: VL038141.D

Acq: 29 Nov 2021 18:54

Tgt Ion: 63 Resp: 664888

Ion	Ratio	Lower	Upper
63	100		
41	0.0	52.3	78.5#
62	17.2	55.1	82.7#





#41

Tetrahydrofuran

Concen: 0.076 ppbv

RT: 6.31 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Nov 2021 18:54

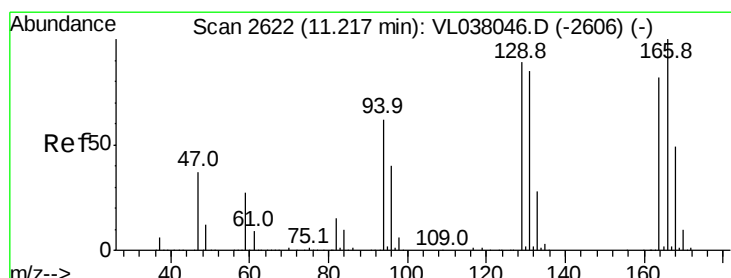
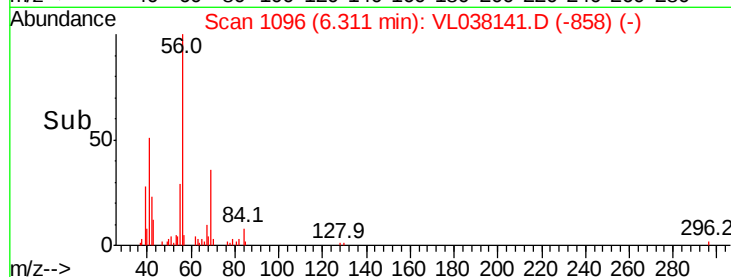
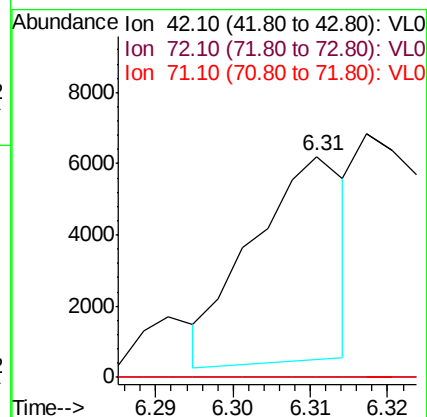
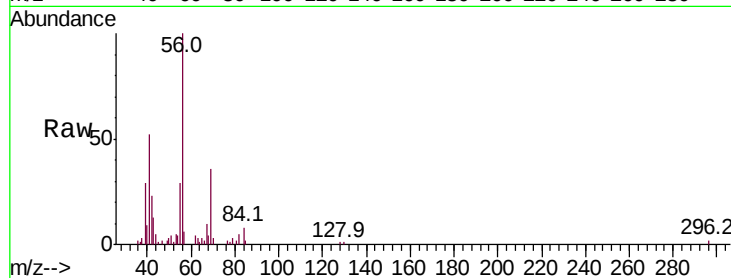
Tot Ion: 42 Resp: 4809

Ion Ratio Lower Upper

42 100

72 0.0 31.7 47.5#

71 0.0 30.6 46.0#



#52

Tetrachloroethene

Concen: 0.182 ppbv

RT: 11.22 min Scan# 2622

Delta R.T. 0.00 min

Lab File: VL038141.D

Acq: 29 Nov 2021 18:54

Tgt Ion: 164 Resp: 16911

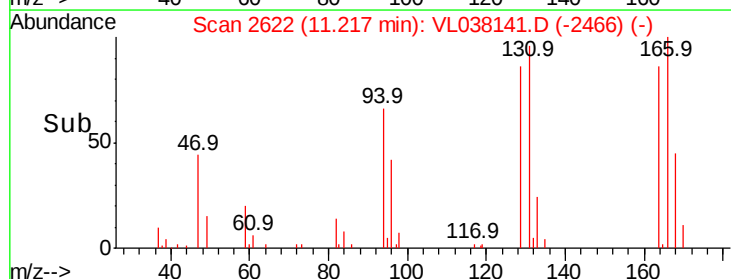
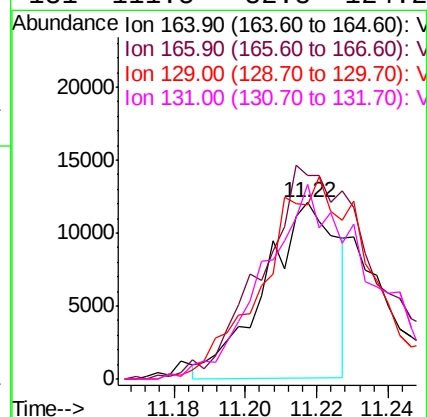
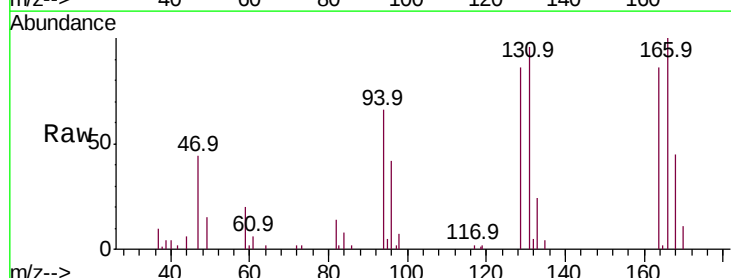
Ion Ratio Lower Upper

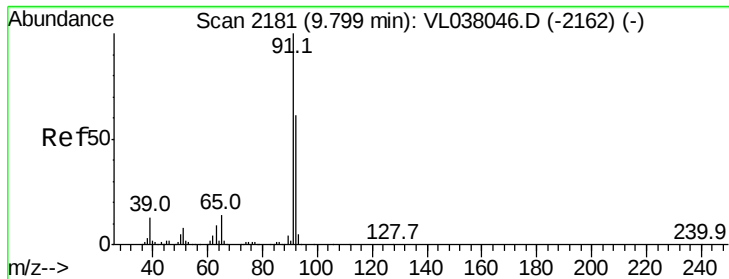
164 100

166 114.5 97.2 145.8

129 102.4 86.9 130.3

131 111.5 82.8 124.2





#53

Toluene

Concen: 0.182 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

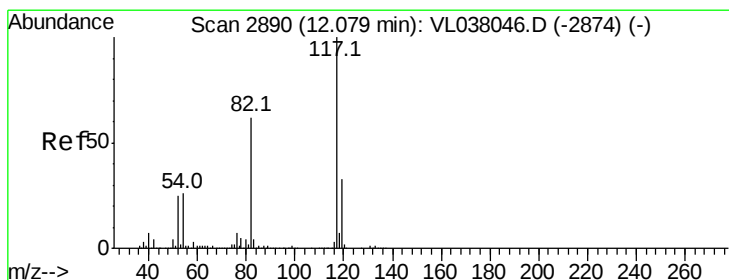
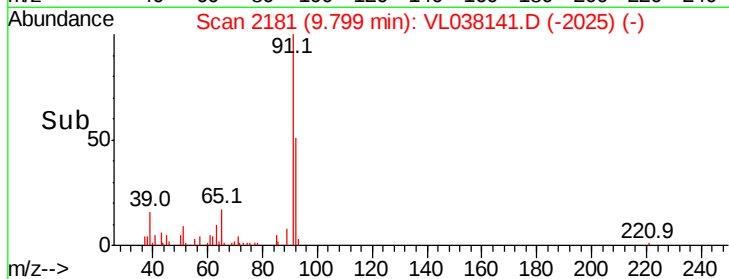
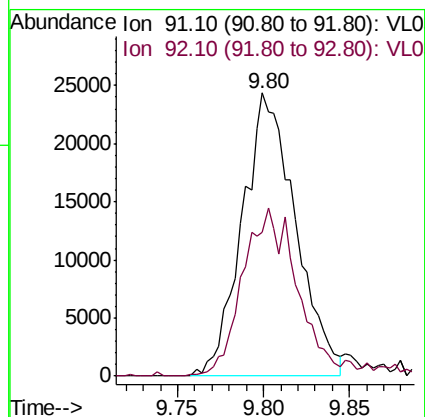
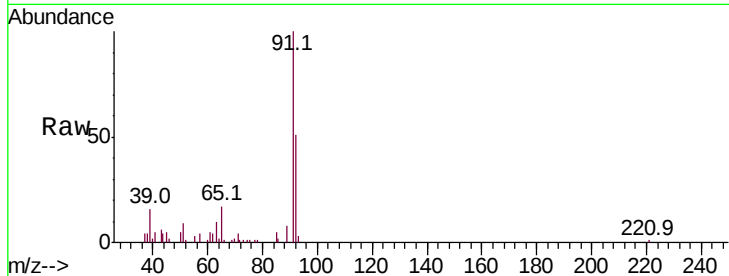
Acq: 29 Nov 2021 18:54

Tot Ion: 91 Resp: 52606

Ion Ratio Lower Upper

91 100

92 64.2 49.7 74.5



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. 0.00 min

Lab File: VL038141.D

Acq: 29 Nov 2021 18:54

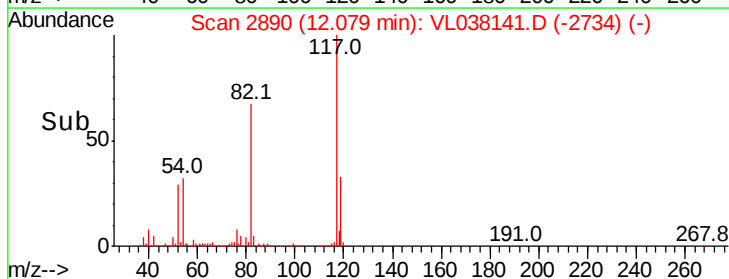
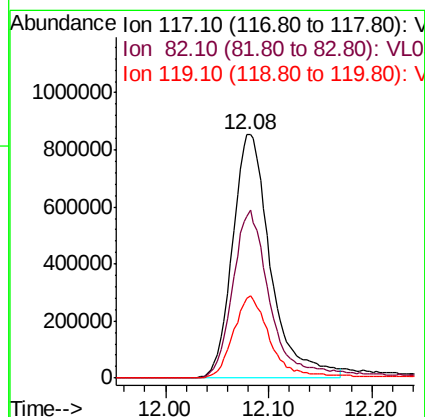
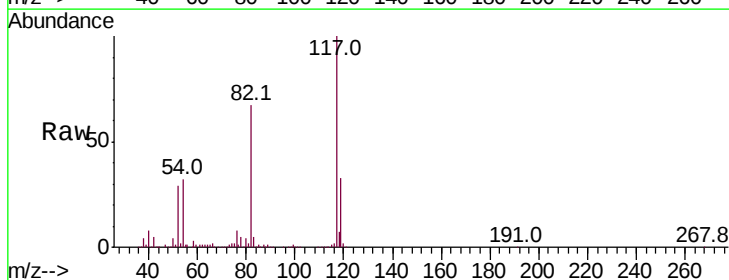
Tgt Ion: 117 Resp: 2197810

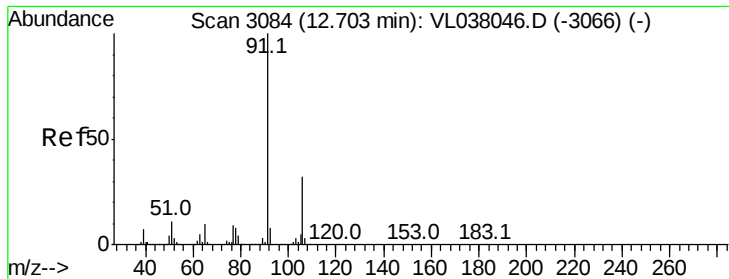
Ion Ratio Lower Upper

117 100

82 69.1 52.8 79.2

119 33.2 26.8 40.2





#58

Ethyl Benzene

Concen: 0.074 ppbv

RT: 12.97 min

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

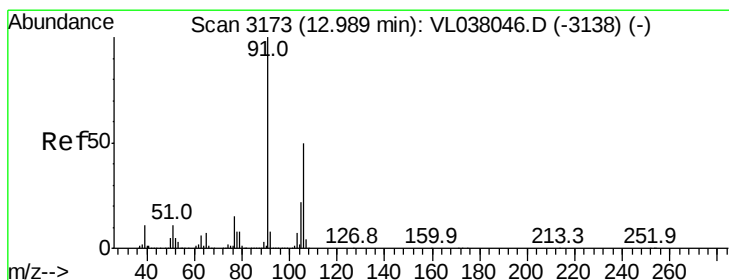
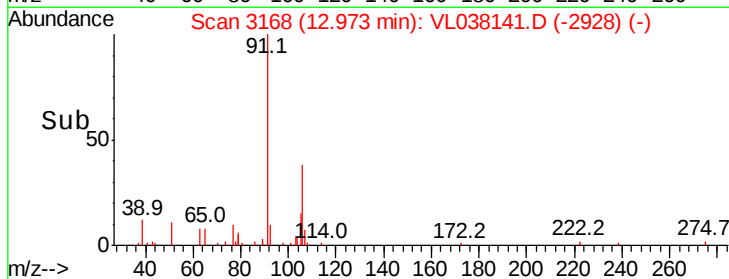
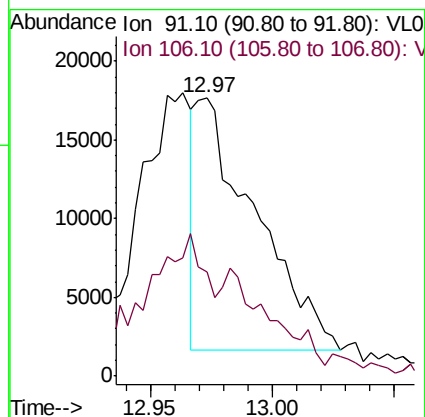
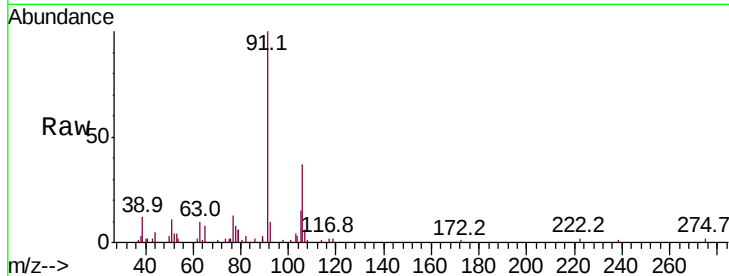
Acq: 29 Nov 2021 18:54

Tot Ion: 91 Resp: 26843

Ion Ratio Lower Upper

91 100

106 33.1 25.8 38.6



#59

m/p-Xylene

Concen: 0.088 ppbv

RT: 12.97 min Scan# 3168

Delta R.T. -0.02 min

Lab File: VL038141.D

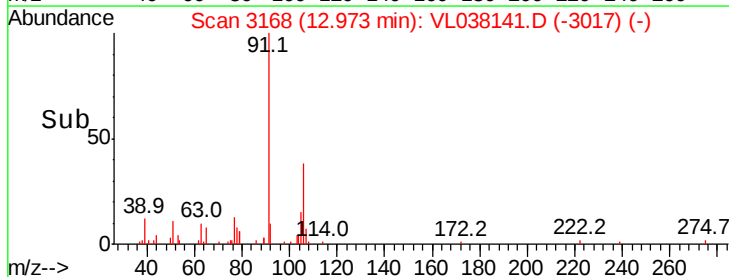
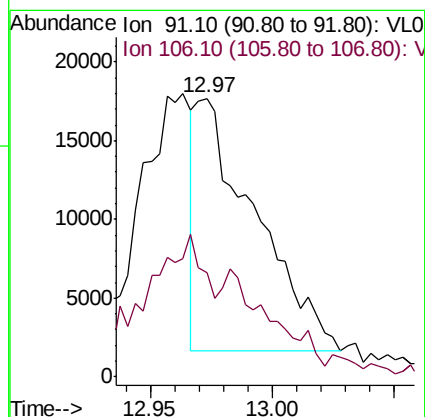
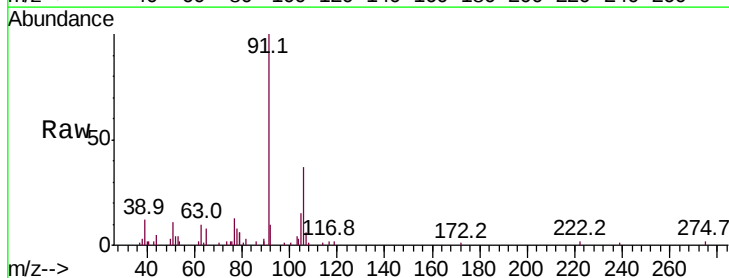
Acq: 29 Nov 2021 18:54

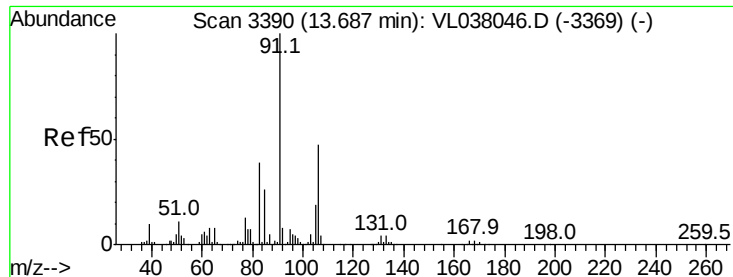
Tgt Ion: 91 Resp: 26843

Ion Ratio Lower Upper

91 100

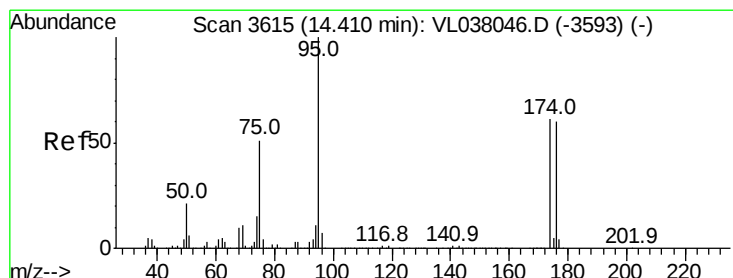
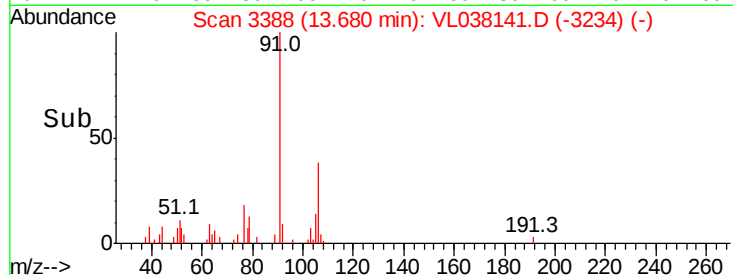
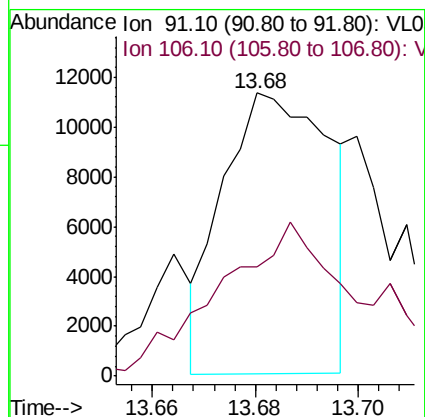
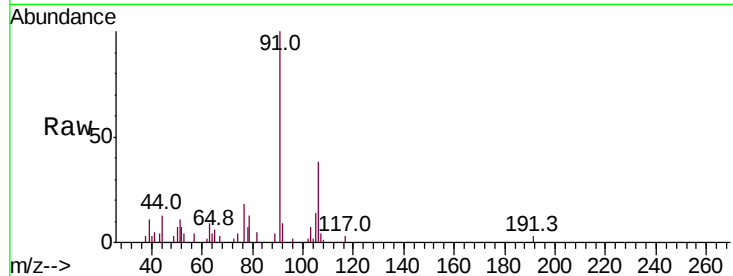
106 0.0 38.1 57.1#





#60
o-Xylene
Concen: 0.057 ppbv
RT: 13.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 29 Nov 2021 18:54

Tot Ion: 91 Resp: 16231
Ion Ratio Lower Upper
91 100
106 85.3 24.2 72.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 11.105 ppbv
RT: 14.41 min Scan# 3615
Delta R.T. 0.00 min
Lab File: VL038141.D
Acq: 29 Nov 2021 18:54

Tgt Ion: 95 Resp: 1760558
Ion Ratio Lower Upper
95 100
174 62.1 53.1 79.7
175 4.3 4.0 6.0

