

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111821\
 Data File : VL038064.D
 Acq On : 18 Nov 2021 21:45
 Operator : SY/AP
 Sample : M4704-01DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 15-JOHNDL

Quant Time: Nov 19 07:31:18 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	863816	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2442506	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2061091	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	1467654	9.87	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.70%

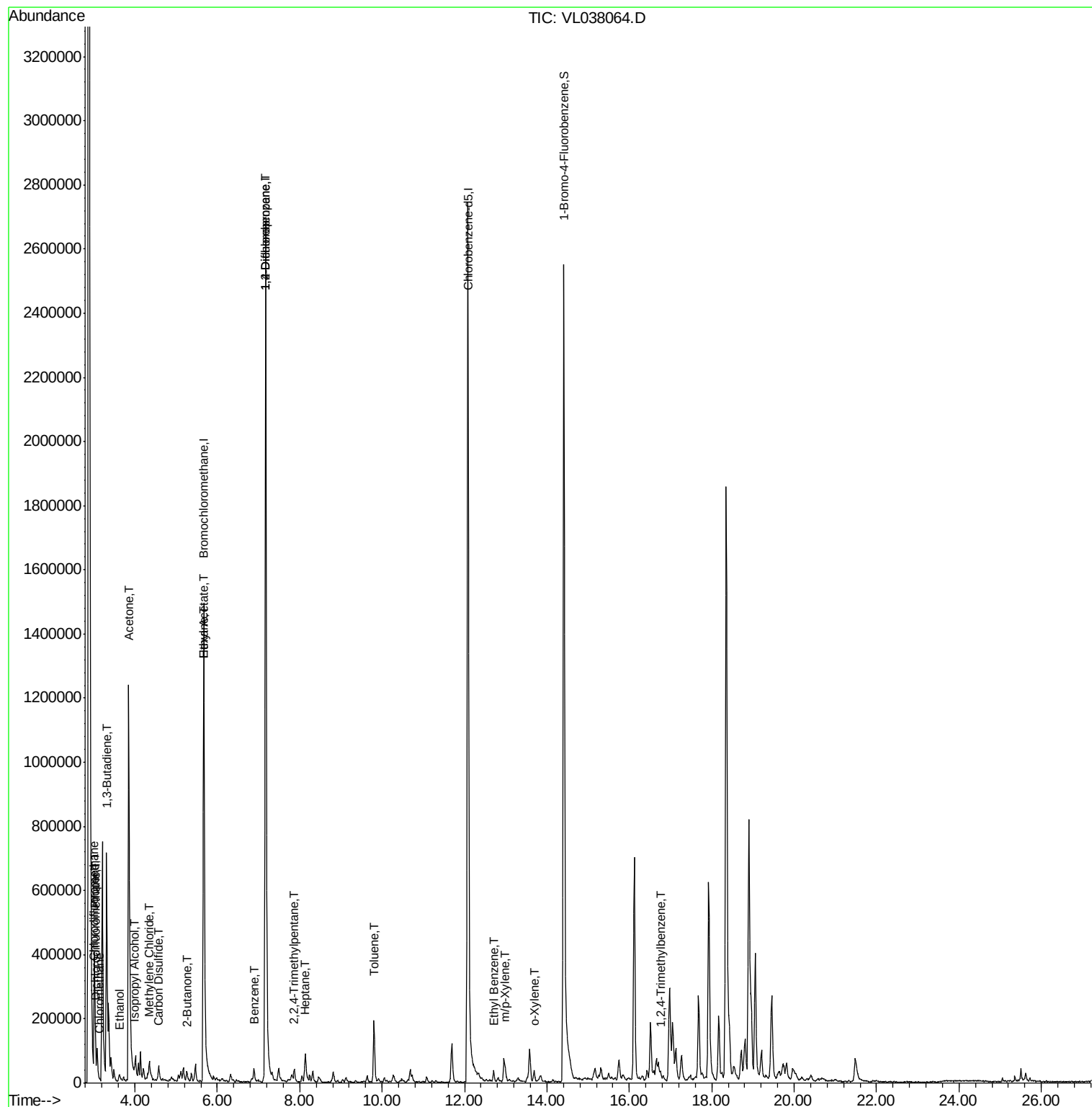
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	6924	0.049	ppbv #	80
3) Chlorodifluoromethane	3.00	51	4338	0.024	ppbv #	79
4) Chloromethane	3.15	50	2647	0.043	ppbv	94
9) Propene	3.02	41	211728	3.169	ppbv	97
10) Heptane	8.12	43	11768	0.071	ppbv #	49
13) Ethanol	3.61	45	12675	1.963	ppbv #	32
15) Acetone	3.85	43	1784672	23.829	ppbv	99
16) 1,3-Butadiene	3.32	39	224632	3.845	ppbv #	22
19) Isopropyl Alcohol	3.98	45	4860	0.090	ppbv #	95
20) Methylene Chloride	4.35	84	19742	0.471	ppbv	92
25) Ethyl Acetate	5.69	43	25876	0.104	ppbv #	79
26) Hexane	5.69	57	19490	0.162	ppbv #	32
27) Carbon Disulfide	4.56	76	14384	0.134	ppbv #	66
34) 2-Butanone	5.25	43	23073	0.234	ppbv #	52
36) Benzene	6.89	78	36982	0.152	ppbv	96
39) 1,2-Dichloropropane	7.18	63	586765	6.278	ppbv #	27
44) 2,2,4-Trimethylpentane	7.87	57	34563	0.085	ppbv #	87
53) Toluene	9.80	91	79430	0.283	ppbv #	19
58) Ethyl Benzene	12.71	91	14880	0.044	ppbv	96
59) m/p-Xylene	13.00	91	12697	0.044	ppbv #	29
60) o-Xylene	13.69	91	11488	0.043	ppbv #	29
74) 1,2,4-Trimethylbenzene	16.76	105	9883	0.034	ppbv #	64

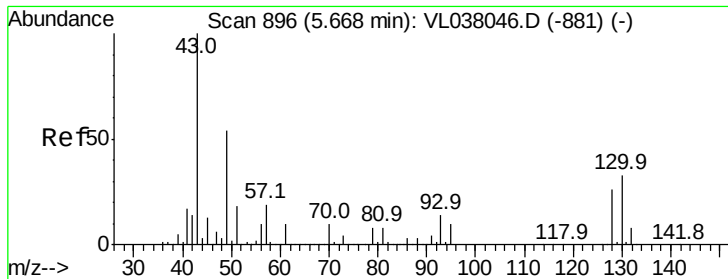
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111821AIR.M
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QLast Update : Thu Nov 18 13:16:09 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: 15-JOHNDL

Acq: 18 Nov 2021 21:45

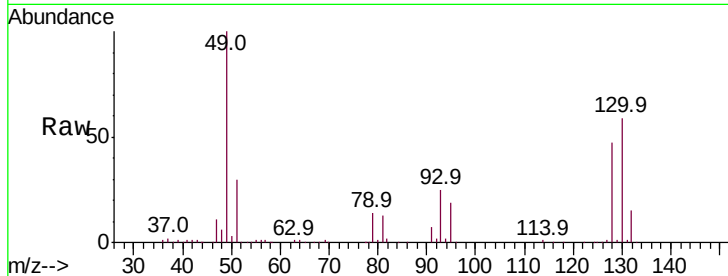
Tot Ion: 49 Resp: 863816

Ion Ratio Lower Upper

49 100

128 48.8 26.5 79.5

130 64.5 32.5 97.4



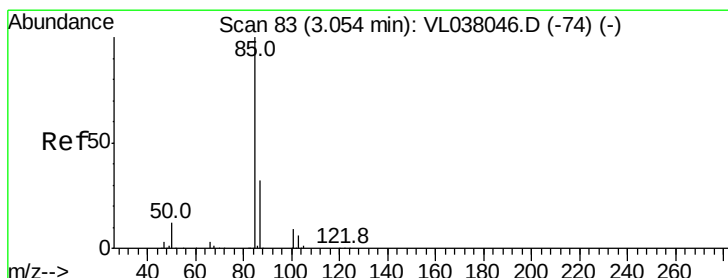
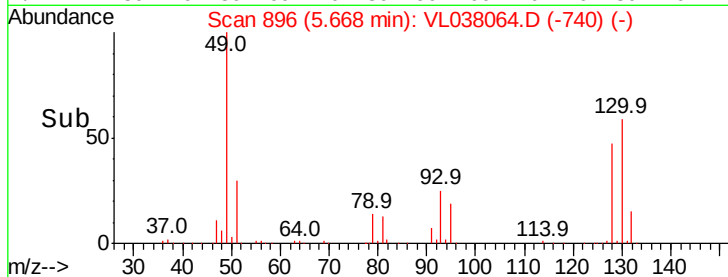
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.67

Time-->



#2

Dichlorodifluoromethane

Concen: 0.049 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL038064.D

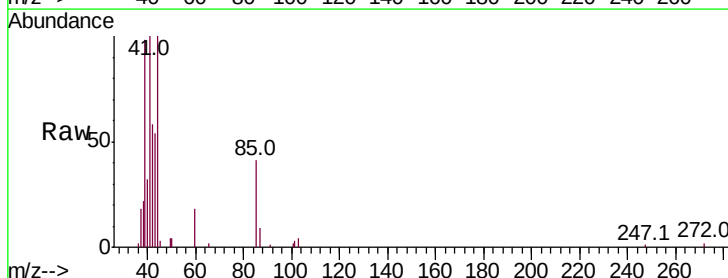
Acq: 18 Nov 2021 21:45

Tgt Ion: 85 Resp: 6924

Ion Ratio Lower Upper

85 100

87 21.3 25.8 38.6#

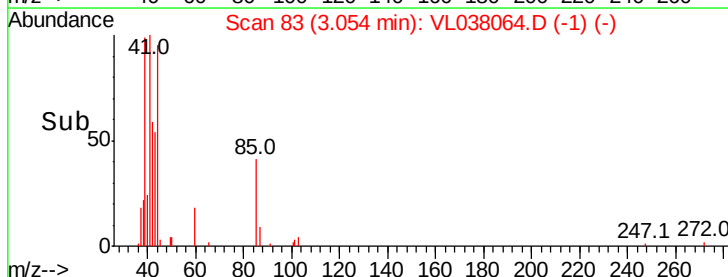


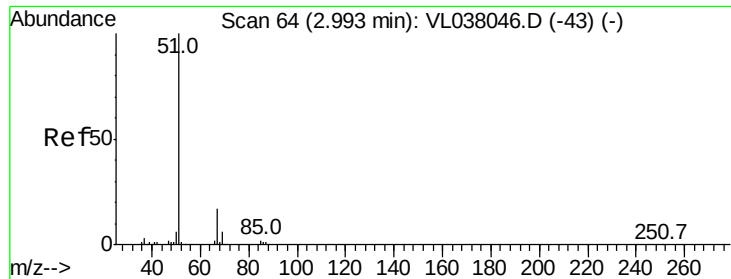
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

Time-->





#3

Chlorodifluoromethane

Concen: 0.024 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

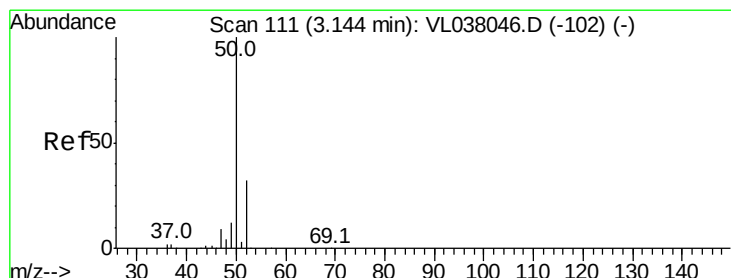
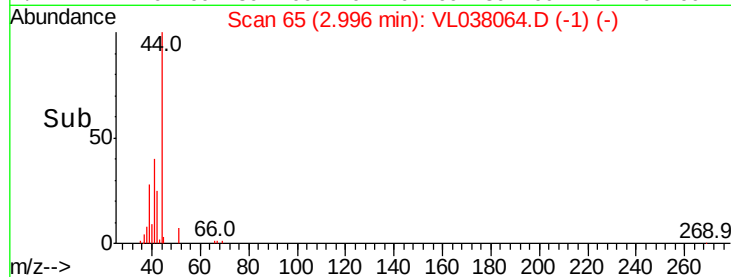
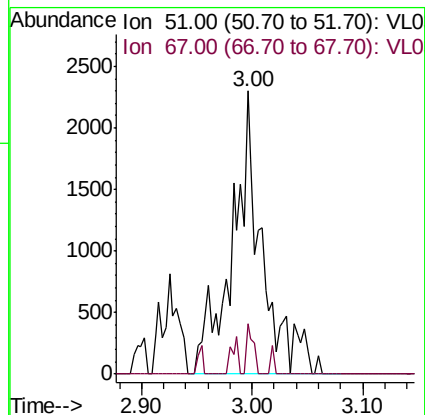
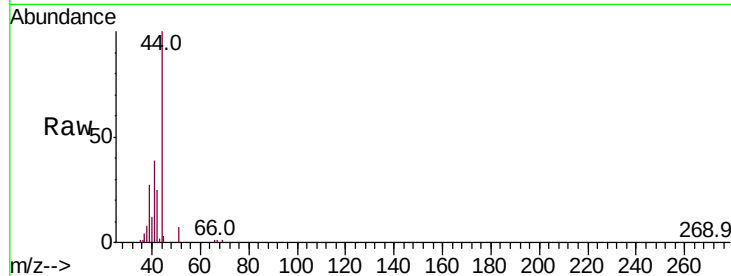
Acq: 18 Nov 2021 21:45

Tot Ion: 51 Resp: 4338

Ion Ratio Lower Upper

51 100

67 8.3 13.8 20.8#



#4

Chloromethane

Concen: 0.043 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.00 min

Lab File: VL038064.D

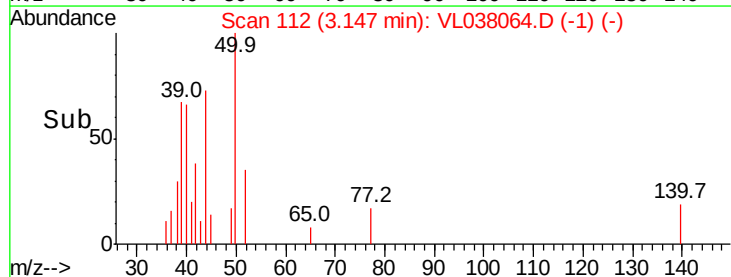
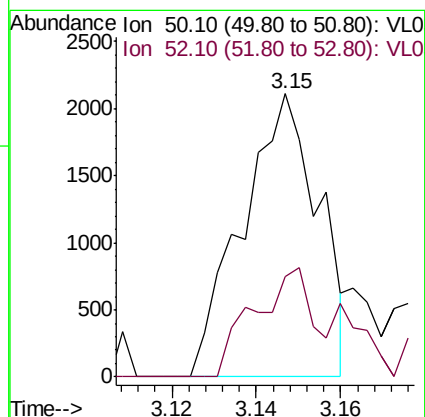
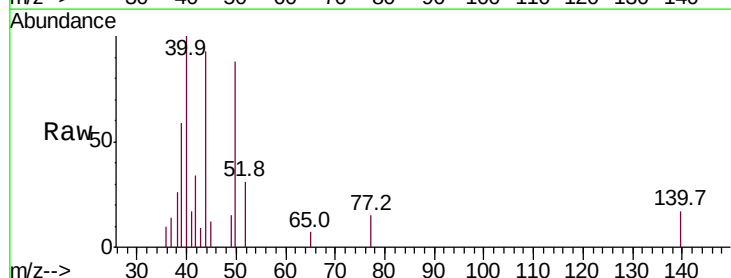
Acq: 18 Nov 2021 21:45

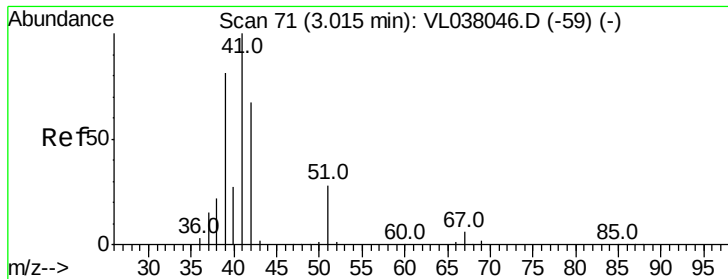
Tgt Ion: 50 Resp: 2647

Ion Ratio Lower Upper

50 100

52 35.3 25.4 38.0





#9

Propene

Concen: 3.169 ppbv

RT: 3.02 Instrument: MSVOA_1

Delta R.T. 0.00 min

Lab File: ClientSampleId: 15-JOHNDL

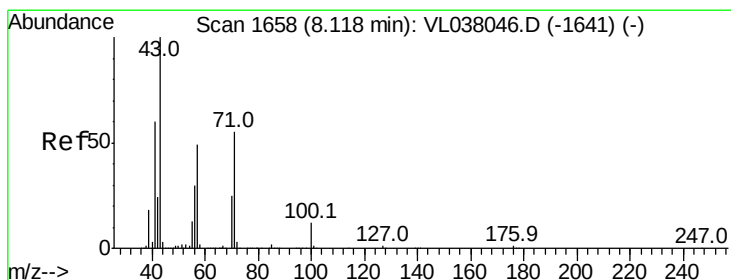
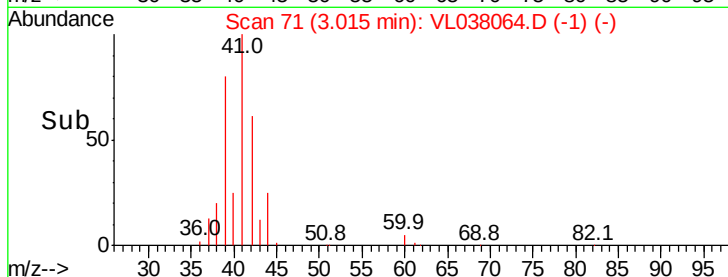
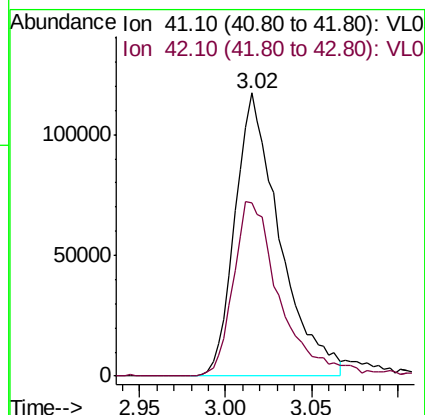
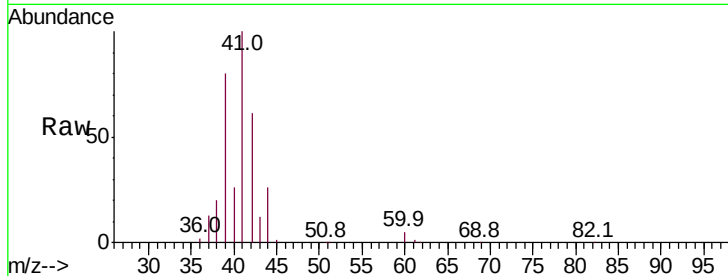
Acq: 18 Nov 2021 21:45

Tot Ion: 41 Resp: 211728

Ion Ratio Lower Upper

41 100

42 65.2 53.8 80.8



#10

Heptane

Concen: 0.071 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. 0.00 min

Lab File: VL038064.D

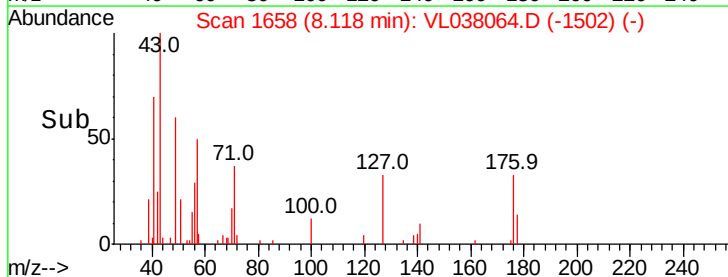
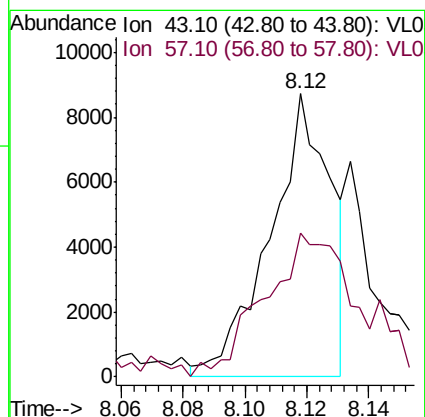
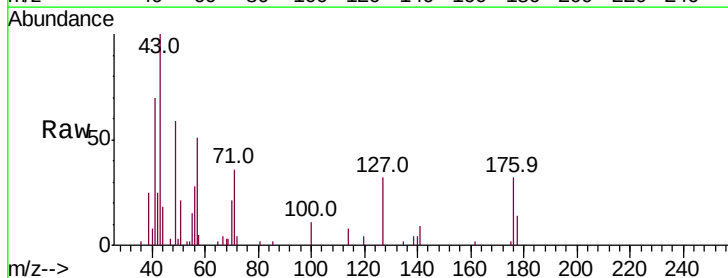
Acq: 18 Nov 2021 21:45

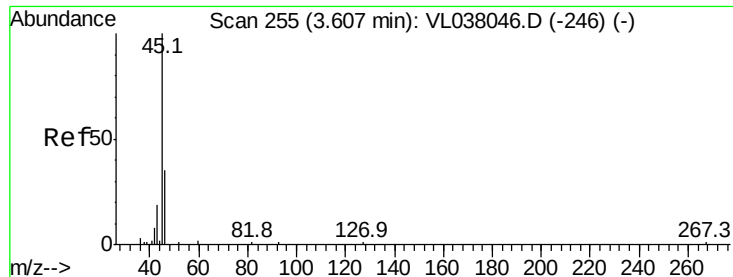
Tgt Ion: 43 Resp: 11768

Ion Ratio Lower Upper

43 100

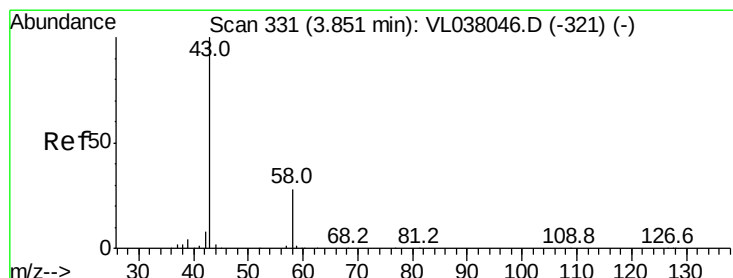
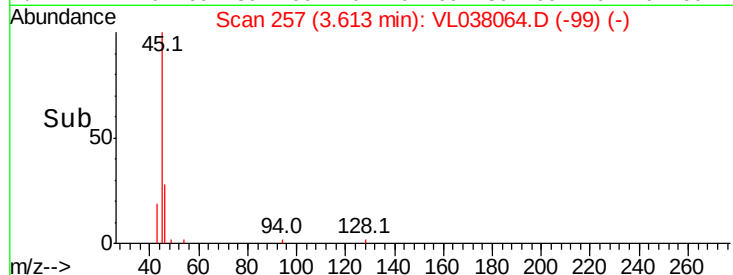
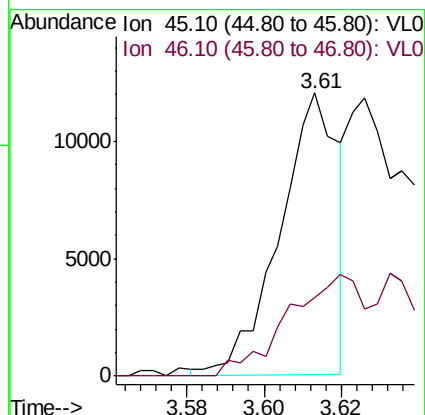
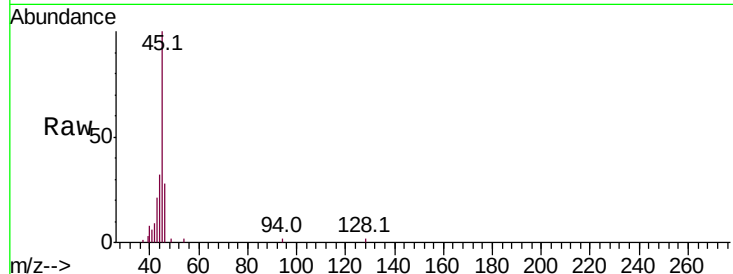
57 85.8 40.4 60.6#





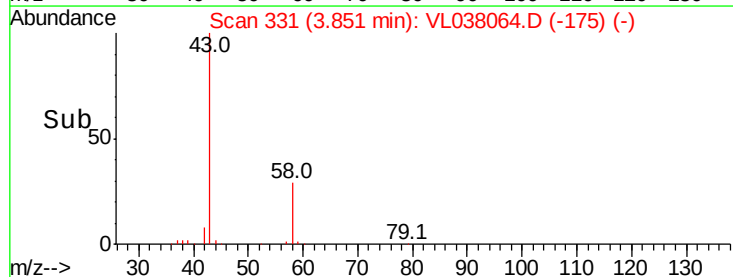
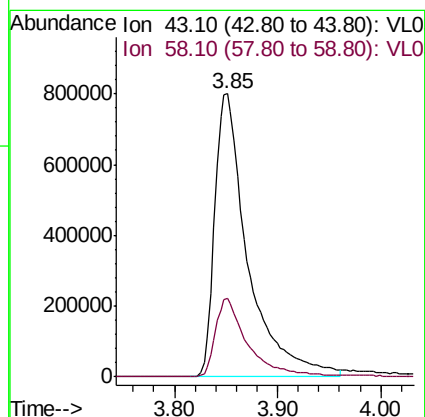
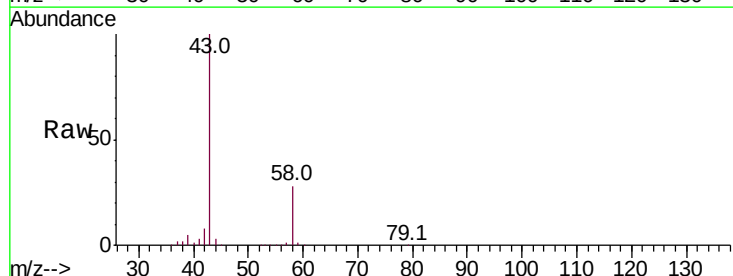
#13
Ethanol
Concen: 1.963 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Nov 2021 21:45

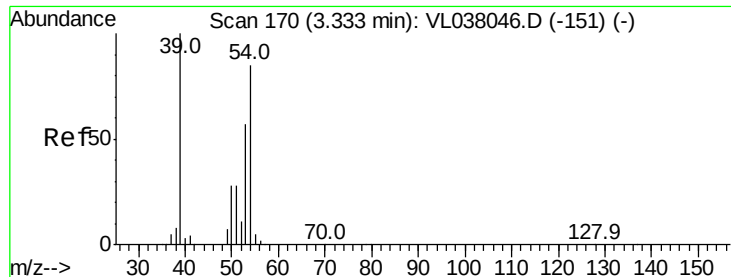
Tot Ion: 45 Resp: 12675
Ion Ratio Lower Upper
45 100
46 0.0 17.6 70.2#



#15
Acetone
Concen: 23.829 ppbv
RT: 3.85 min Scan# 331
Delta R.T. 0.00 min
Lab File: VL038064.D
Acq: 18 Nov 2021 21:45

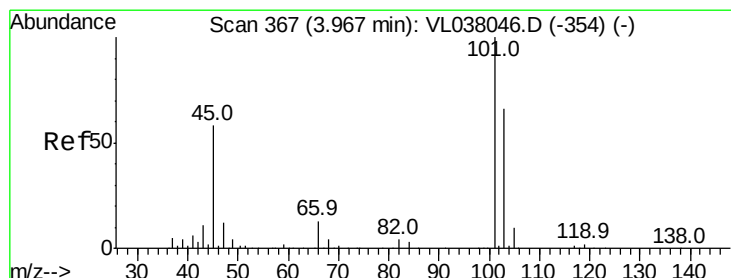
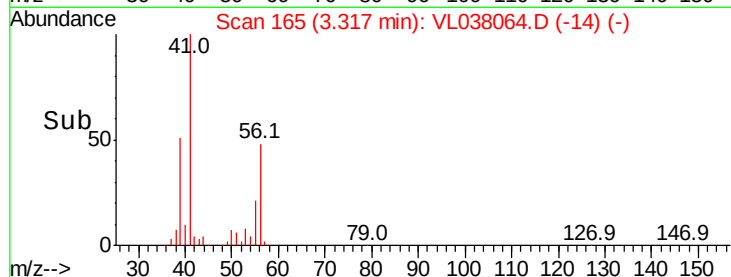
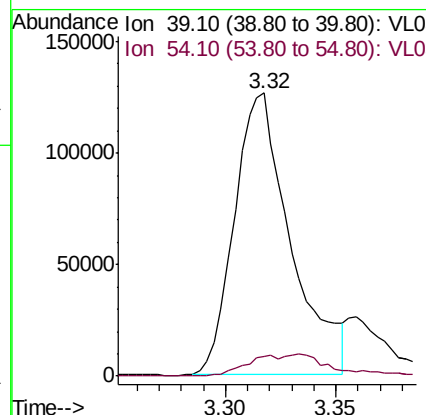
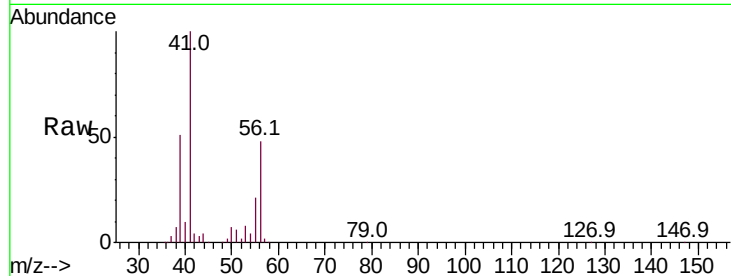
Tgt Ion: 43 Resp: 1784672
Ion Ratio Lower Upper
43 100
58 28.4 22.4 33.6





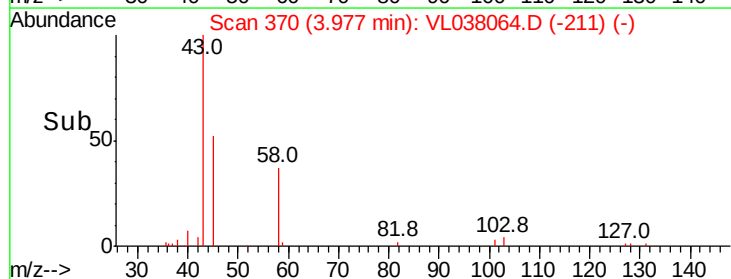
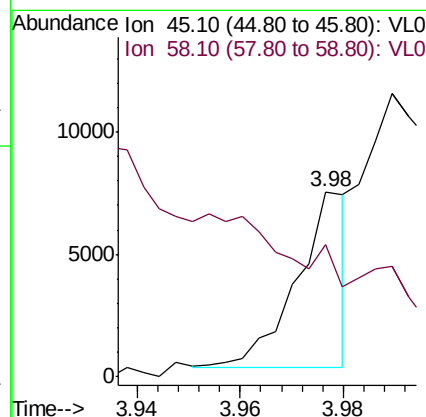
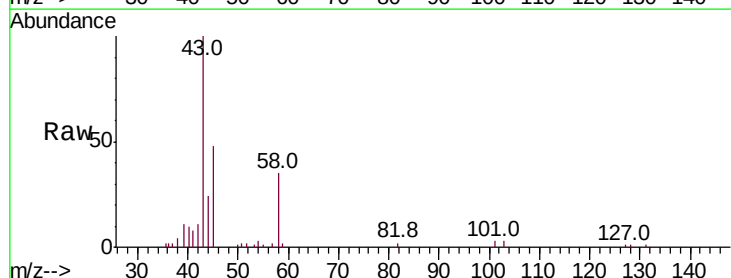
#16
 1,3-Butadiene
 Concen: 3.845 ppbv
 RT: 3.32
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 15-JOHNDL
 Acq: 18 Nov 2021 21:45

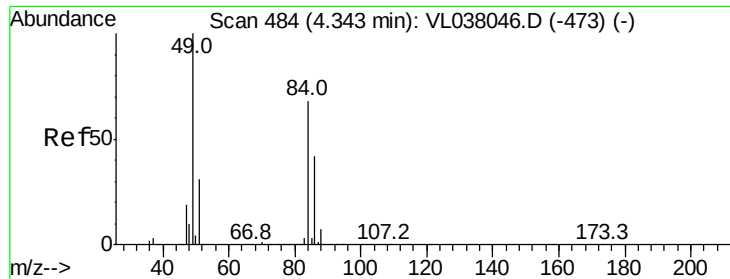
Tot Ion: 39 Resp: 224632
 Ion Ratio Lower Upper
 39 100
 54 11.3 64.4 96.6#



#19
 Isopropyl Alcohol
 Concen: 0.090 ppbv
 RT: 3.98 min Scan# 370
 Delta R.T. 0.01 min
 Lab File: VL038064.D
 Acq: 18 Nov 2021 21:45

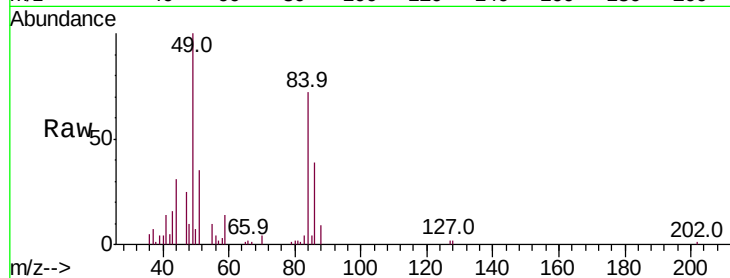
Tgt Ion: 45 Resp: 4860
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.4 2.0#



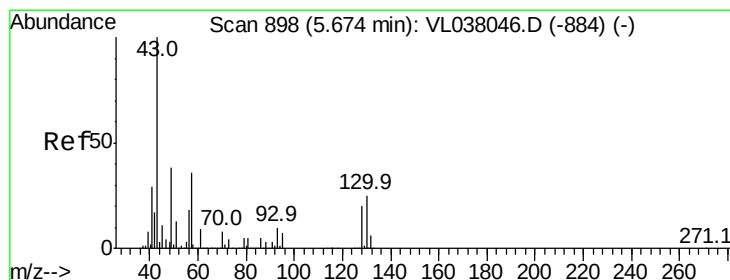
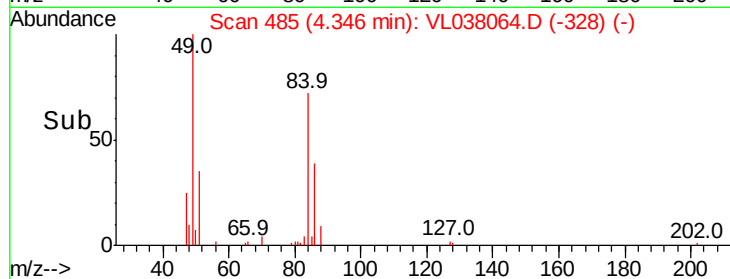
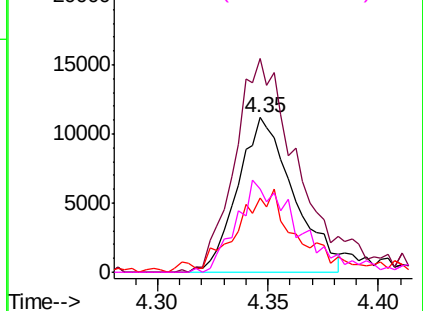


#20
Methylene Chloride
Concen: 0.471 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Nov 2021 21:45

Tot Ion:	84	Resp:	19742
Ion	Ratio	Lower	Upper
84	100		
49	138.1	118.2	177.2
51	42.4	36.8	55.2
86	54.1	49.0	73.6

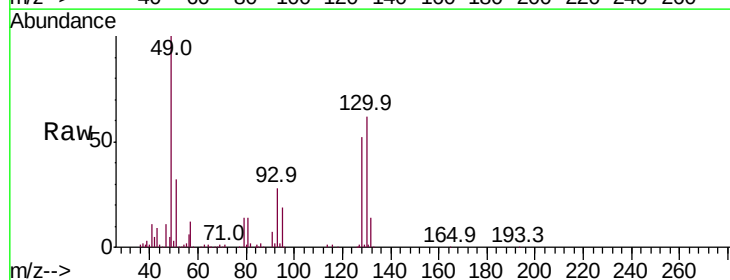


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

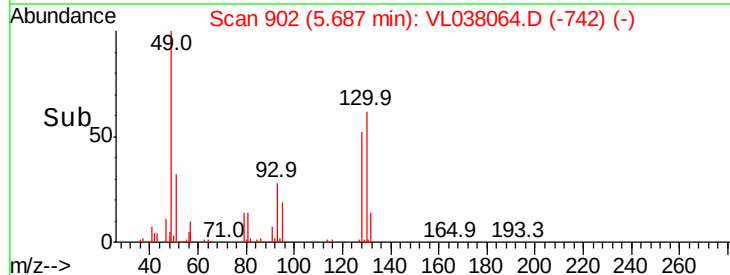
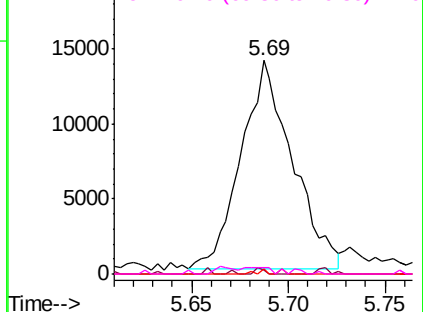


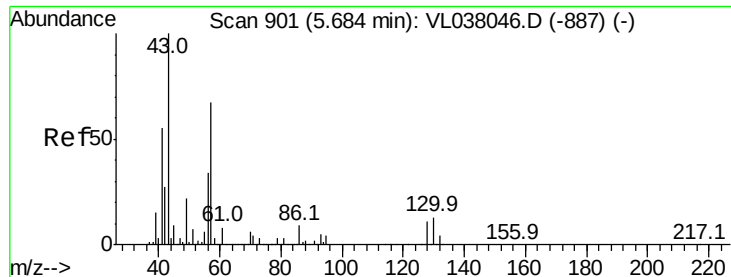
#25
Ethyl Acetate
Concen: 0.104 ppbv
RT: 5.69 min Scan# 902
Delta R.T. 0.01 min
Lab File: VL038064.D
Acq: 18 Nov 2021 21:45

Tgt Ion:	43	Resp:	25876
Ion	Ratio	Lower	Upper
43	100		
45	0.7	7.9	11.9#
61	0.0	7.8	11.6#
70	3.9	5.8	8.8#



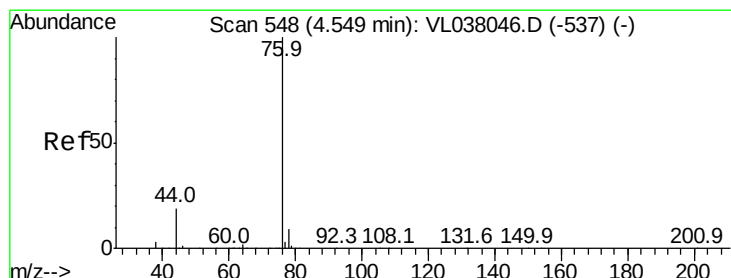
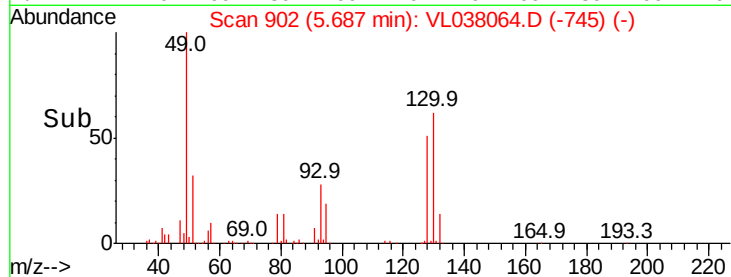
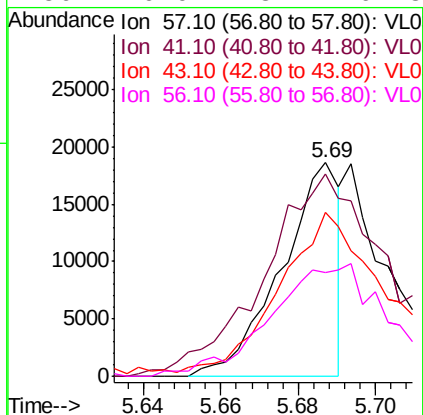
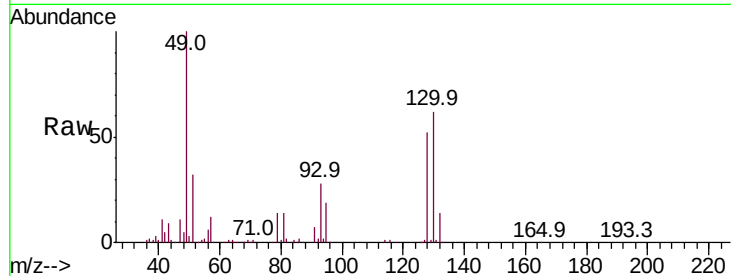
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0





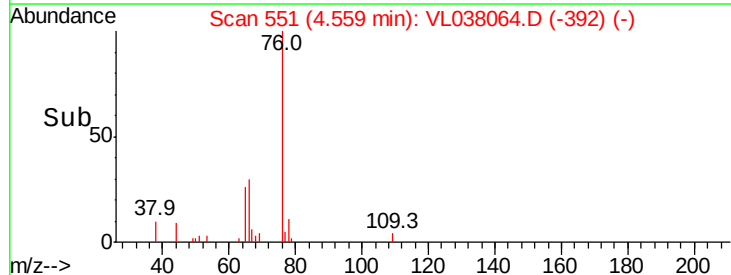
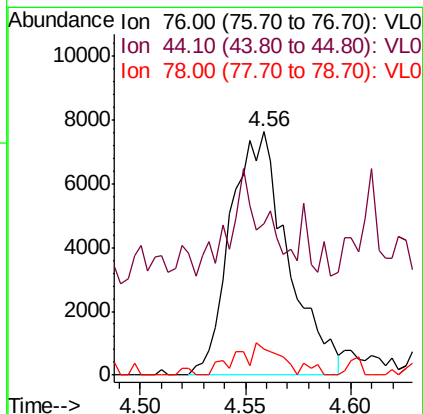
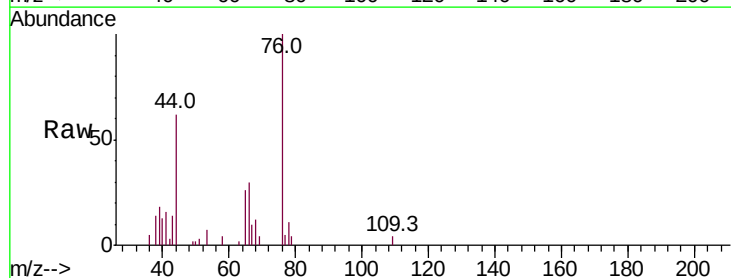
#26
Hexane
Concen: 0.162 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Nov 2021 21:45

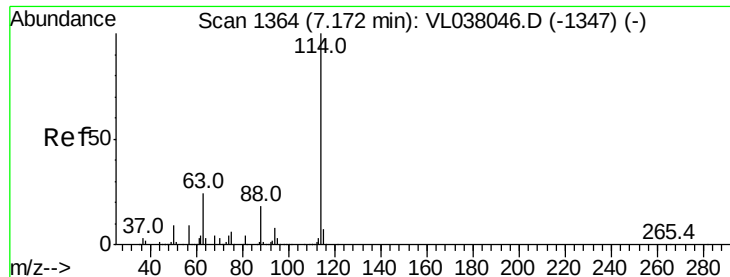
Tot Ion: 57 Resp: 19490
Ion Ratio Lower Upper
57 100
41 209.9 71.4 107.2#
43 152.1 174.6 261.8#
56 0.0 43.2 64.8#



#27
Carbon Disulfide
Concen: 0.134 ppbv
RT: 4.56 min Scan# 551
Delta R.T. 0.01 min
Lab File: VL038064.D
Acq: 18 Nov 2021 21:45

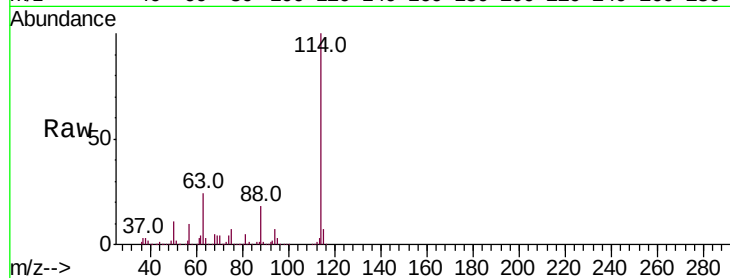
Tgt Ion: 76 Resp: 14384
Ion Ratio Lower Upper
76 100
44 39.3 14.9 22.3#
78 12.9 7.6 11.4#



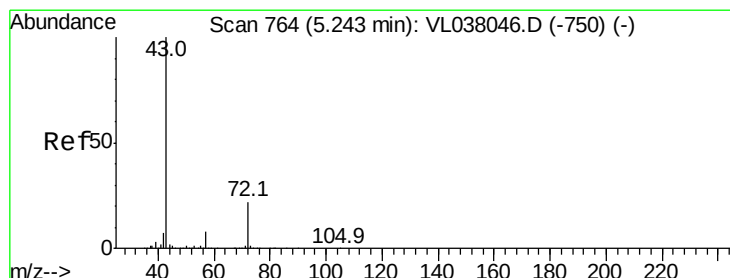
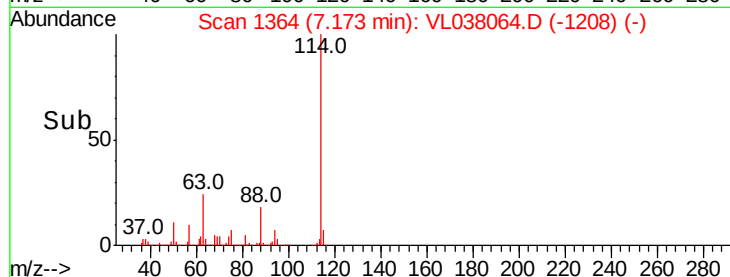
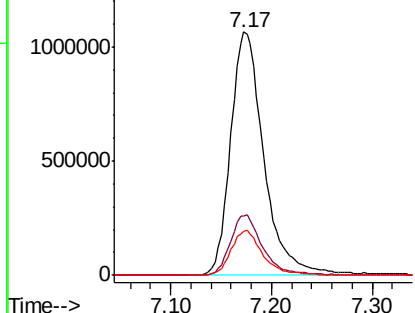


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 18 Nov 2021 21:45

Tot Ion:114 Resp: 2442506
 Ion Ratio Lower Upper
 114 100
 63 24.6 19.7 29.5
 88 18.1 14.4 21.6

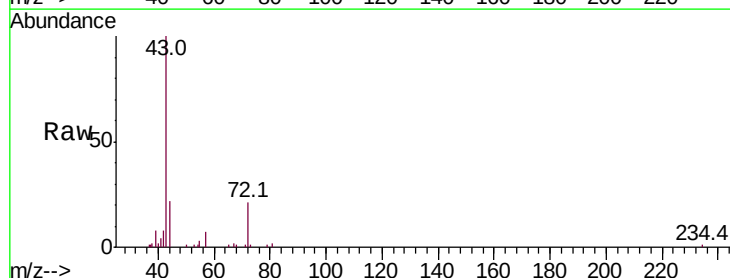


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

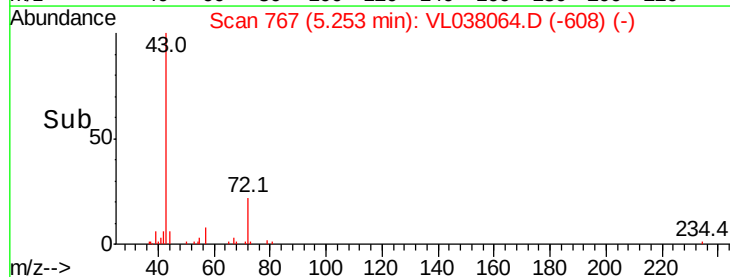
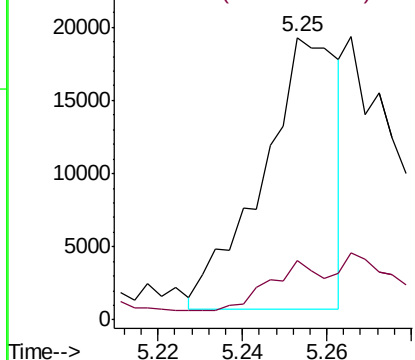


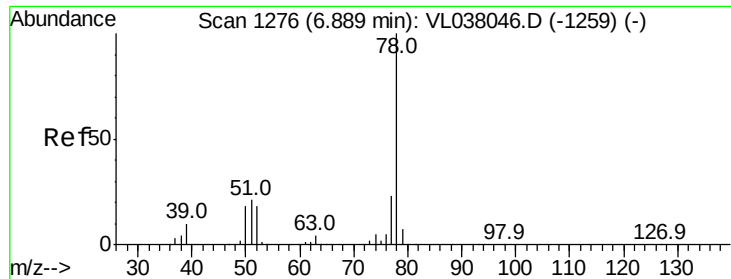
#34
 2-Butanone
 Concen: 0.234 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.01 min
 Lab File: VL038064.D
 Acq: 18 Nov 2021 21:45

Tgt Ion: 43 Resp: 23073
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.8 28.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0

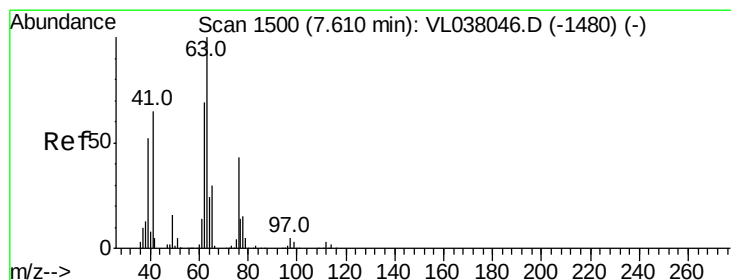
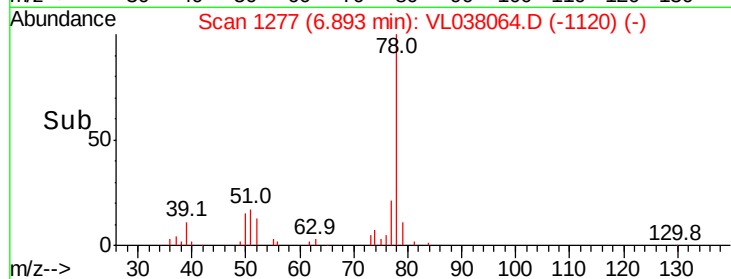
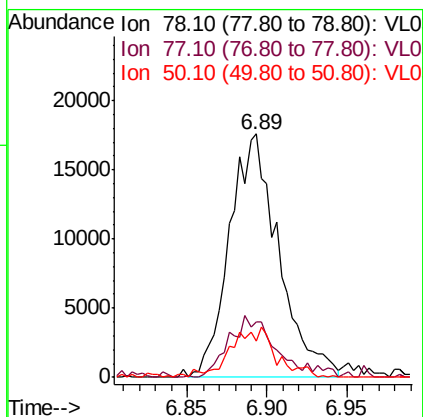
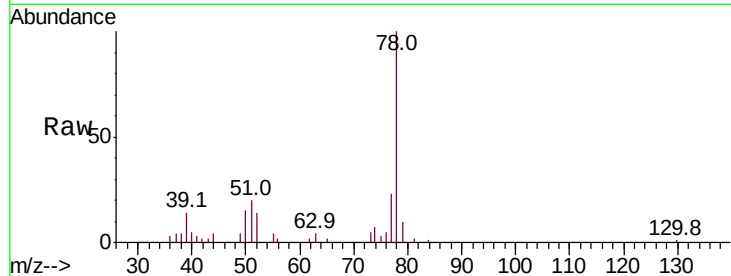




#36
Benzene
Concen: 0.152 ppbv
RT: 6.89
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Nov 2021 21:45

Tot Ion: 78 Resp: 36982

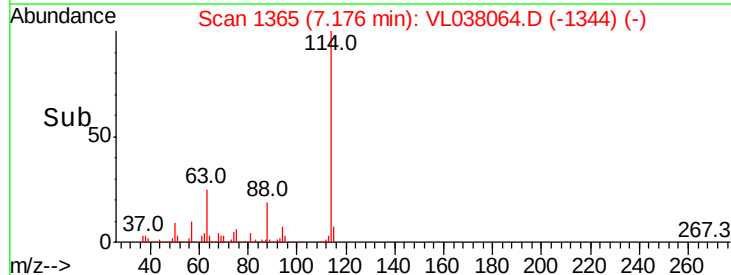
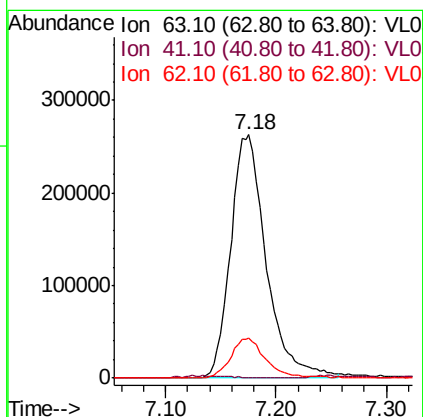
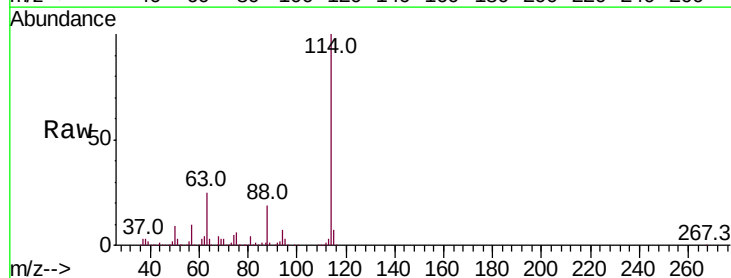
Ion	Ratio	Lower	Upper
78	100		
77	23.0	18.2	27.4
50	15.0	14.7	22.1

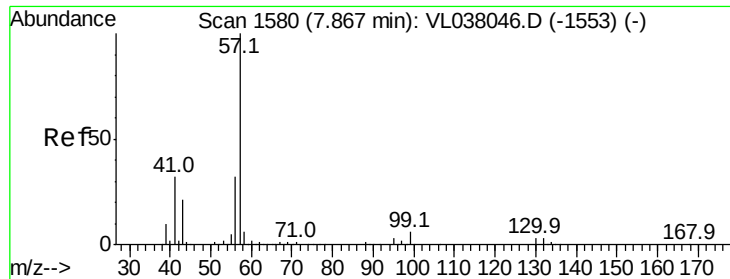


#39
1,2-Dichloropropane
Concen: 6.278 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.43 min
Lab File: VL038064.D
Acq: 18 Nov 2021 21:45

Tgt Ion: 63 Resp: 586765

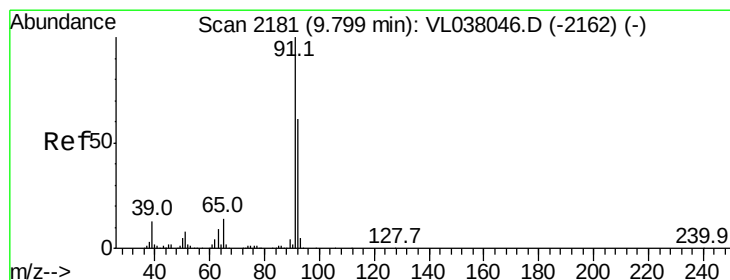
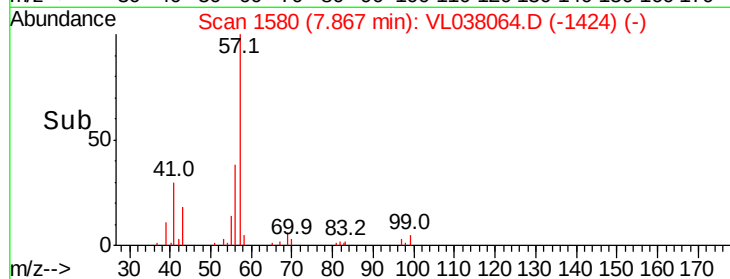
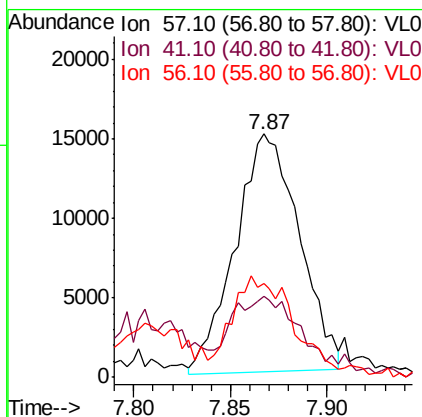
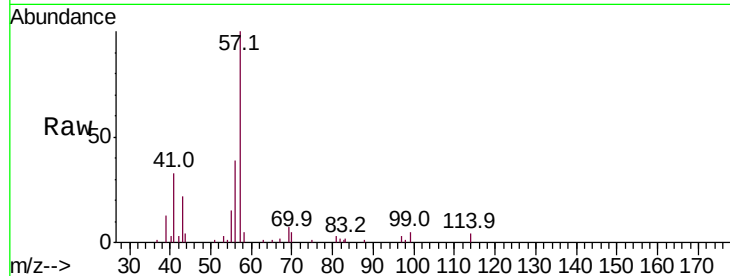
Ion	Ratio	Lower	Upper
63	100		
41	0.0	52.3	78.5#
62	16.7	55.1	82.7#





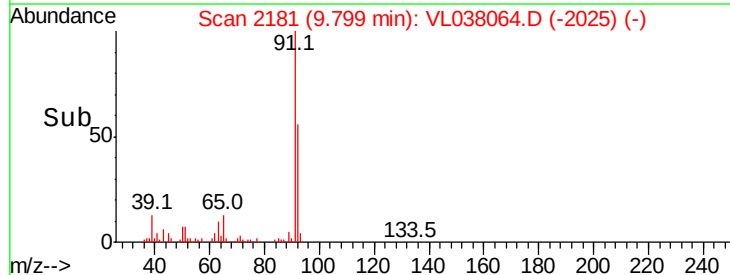
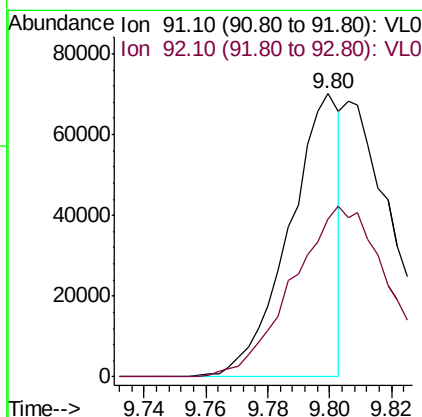
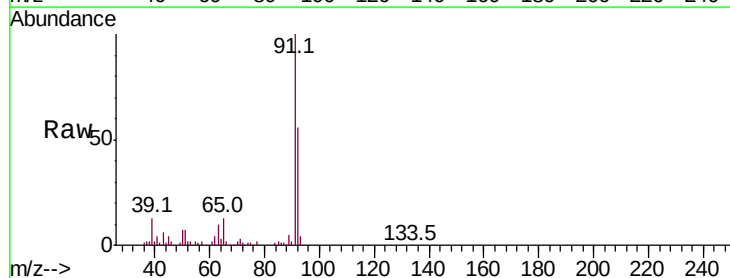
#44
 2,2,4-Trimethylpentane
 Concen: 0.085 ppbv
 RT: 7.87
 Delta R.T. MSVOA_1
 Lab File: ClientSampleId :
 Acq: 18 Nov 2021 21:45

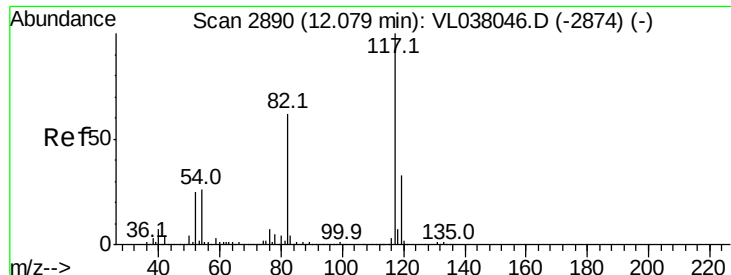
Tot Ion: 57 Resp: 34563
 Ion Ratio Lower Upper
 57 100
 41 36.2 25.8 38.6
 56 42.9 25.6 38.4#



#53
 Toluene
 Concen: 0.283 ppbv
 RT: 9.80 min Scan# 2181
 Delta R.T. 0.00 min
 Lab File: VL038064.D
 Acq: 18 Nov 2021 21:45

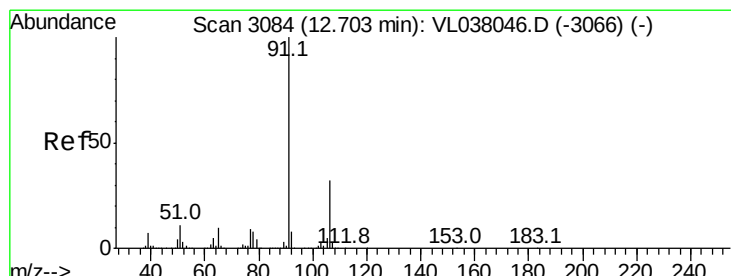
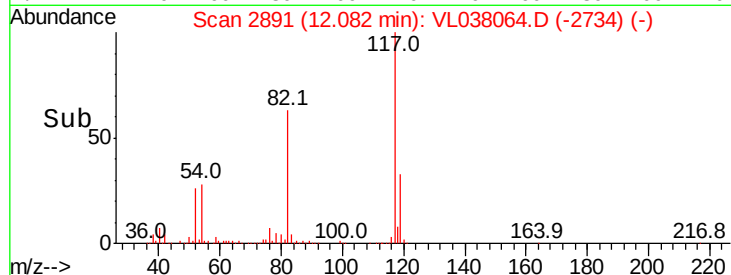
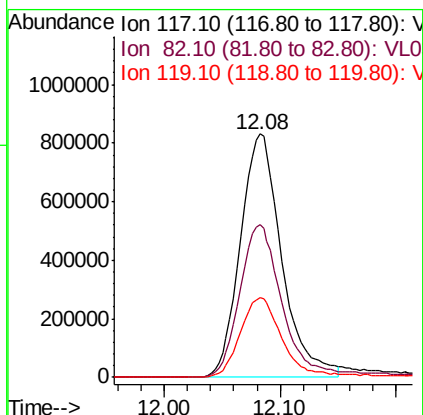
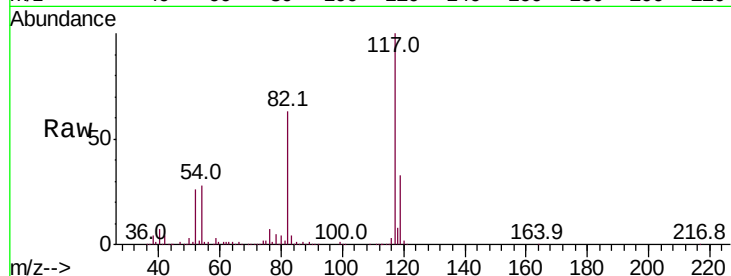
Tgt Ion: 91 Resp: 79430
 Ion Ratio Lower Upper
 91 100
 92 0.0 49.7 74.5#





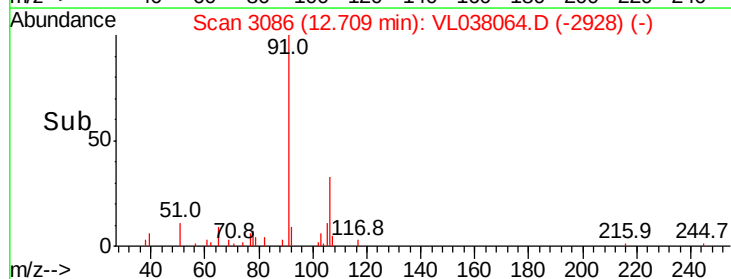
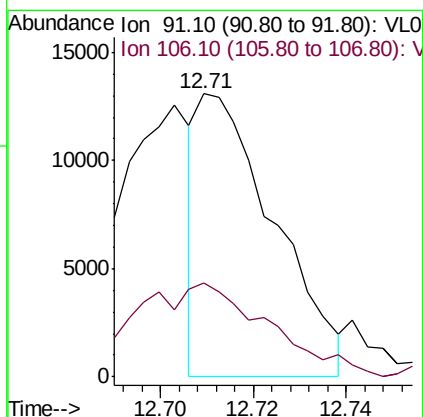
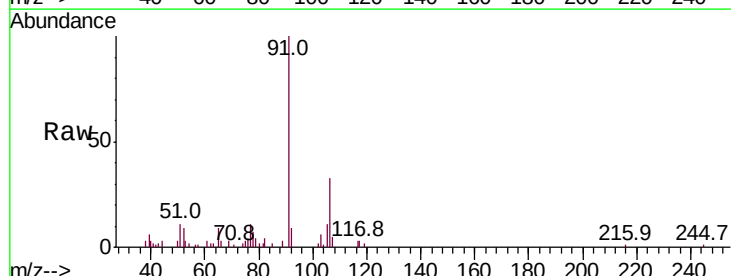
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 18 Nov 2021 21:45

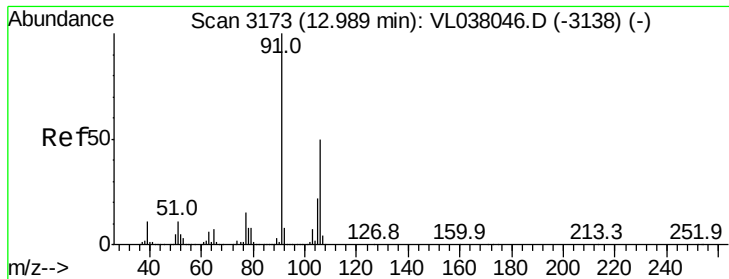
Tot Ion: 117 Resp: 2061091
Ion Ratio Lower Upper
117 100
82 67.7 52.8 79.2
119 34.5 26.8 40.2



#58
Ethyl Benzene
Concen: 0.044 ppbv
RT: 12.71 min Scan# 3086
Delta R.T. 0.01 min
Lab File: VL038064.D
Acq: 18 Nov 2021 21:45

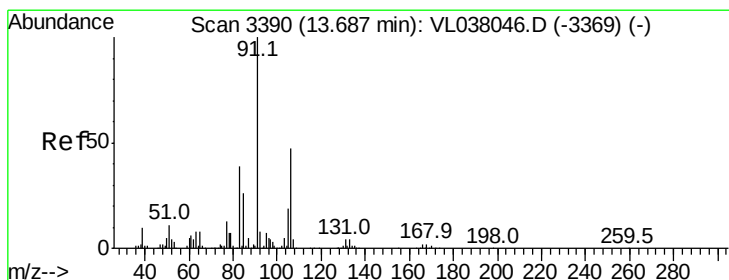
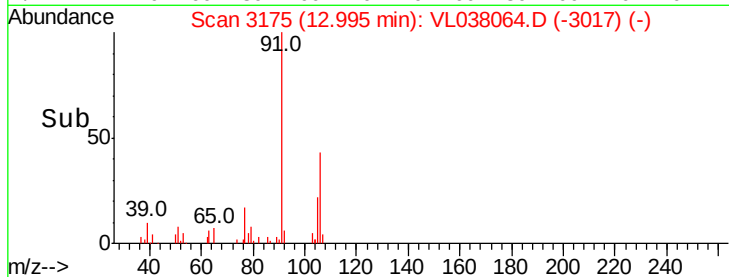
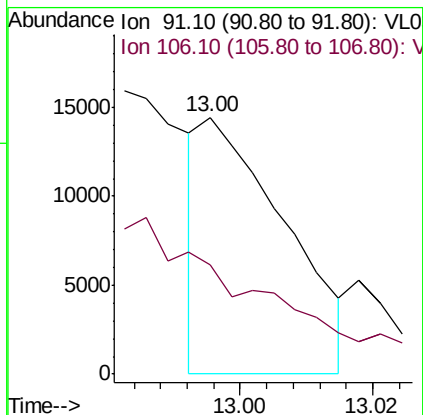
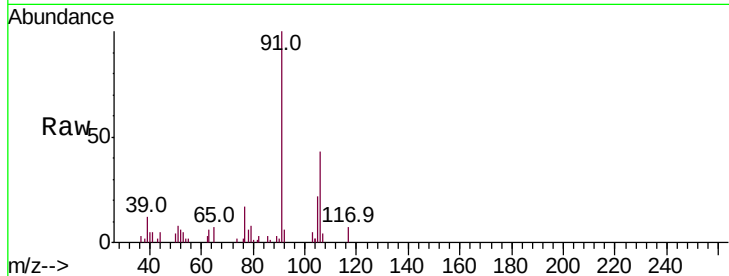
Tgt Ion: 91 Resp: 14880
Ion Ratio Lower Upper
91 100
106 29.9 25.8 38.6





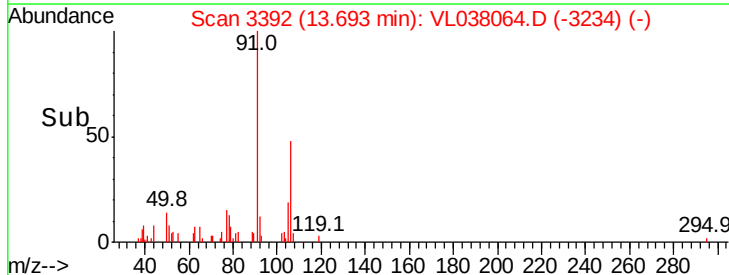
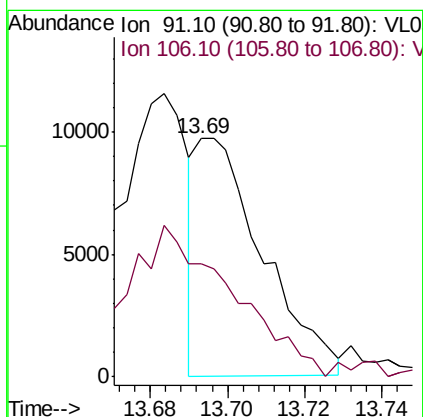
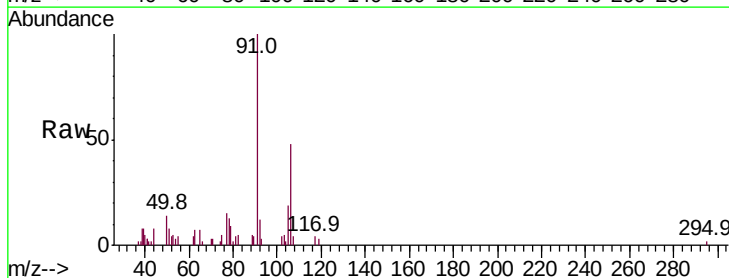
#59
m/p-Xylene
Concen: 0.044 ppbv
RT: 13.00
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 18 Nov 2021 21:45

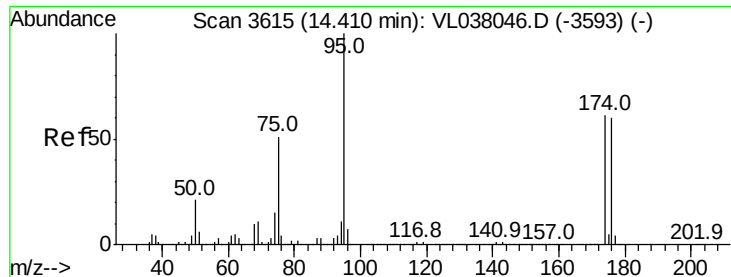
Tot Ion: 91 Resp: 12697
Ion Ratio Lower Upper
91 100
106 0.0 38.1 57.1#



#60
o-Xylene
Concen: 0.043 ppbv
RT: 13.69 min Scan# 3392
Delta R.T. 0.01 min
Lab File: VL038064.D
Acq: 18 Nov 2021 21:45

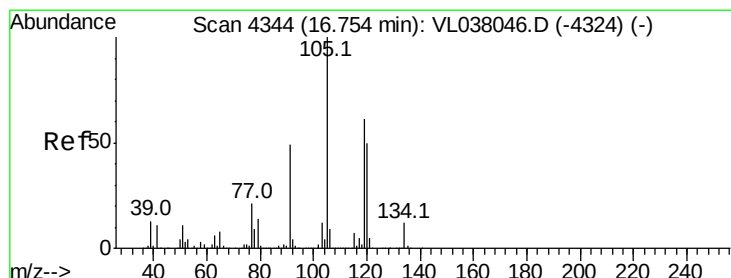
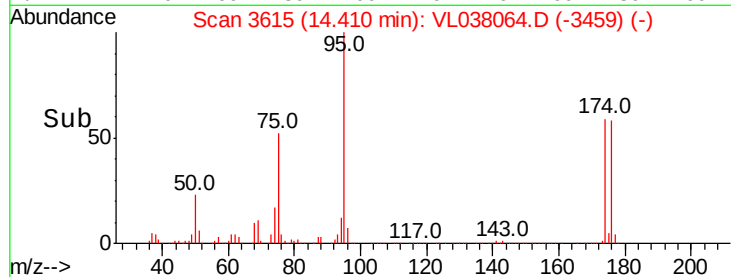
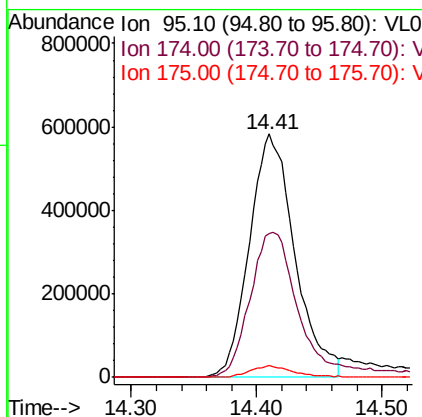
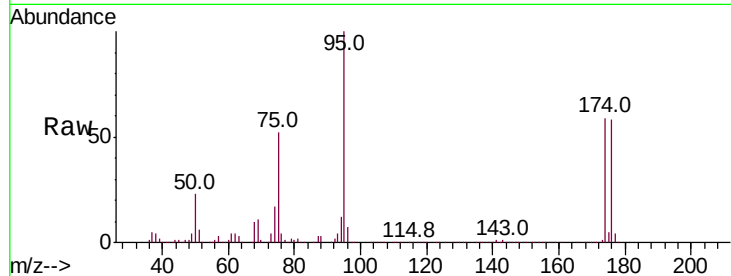
Tgt Ion: 91 Resp: 11488
Ion Ratio Lower Upper
91 100
106 0.0 24.2 72.6#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.872 ppbv
 RT: 14.41 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId : 15-JOHNDL
 Acq: 18 Nov 2021 21:45

Tot Ion: 95 Resp: 1467654
 Ion Ratio Lower Upper
 95 100
 174 68.7 53.1 79.7
 175 4.9 4.0 6.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.034 ppbv
 RT: 16.76 min Scan# 4346
 Delta R.T. 0.01 min
 Lab File: VL038064.D
 Acq: 18 Nov 2021 21:45

Tgt Ion: 105 Resp: 9883
 Ion Ratio Lower Upper
 105 100
 120 52.8 40.1 60.1
 91 4.9 39.8 59.8#
 77 0.0 16.6 25.0#

