

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL122921\
 Data File : VL038234.D
 Acq On : 29 Dec 2021 16:02
 Operator : SY/AP
 Sample : M5217-01 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Dec 29 18:40:17 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL122121AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Dec 21 17:47:08 2021
 QLast Update : Tue Dec 21 17:47:08 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	735320	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1899907	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1595911	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1249643	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

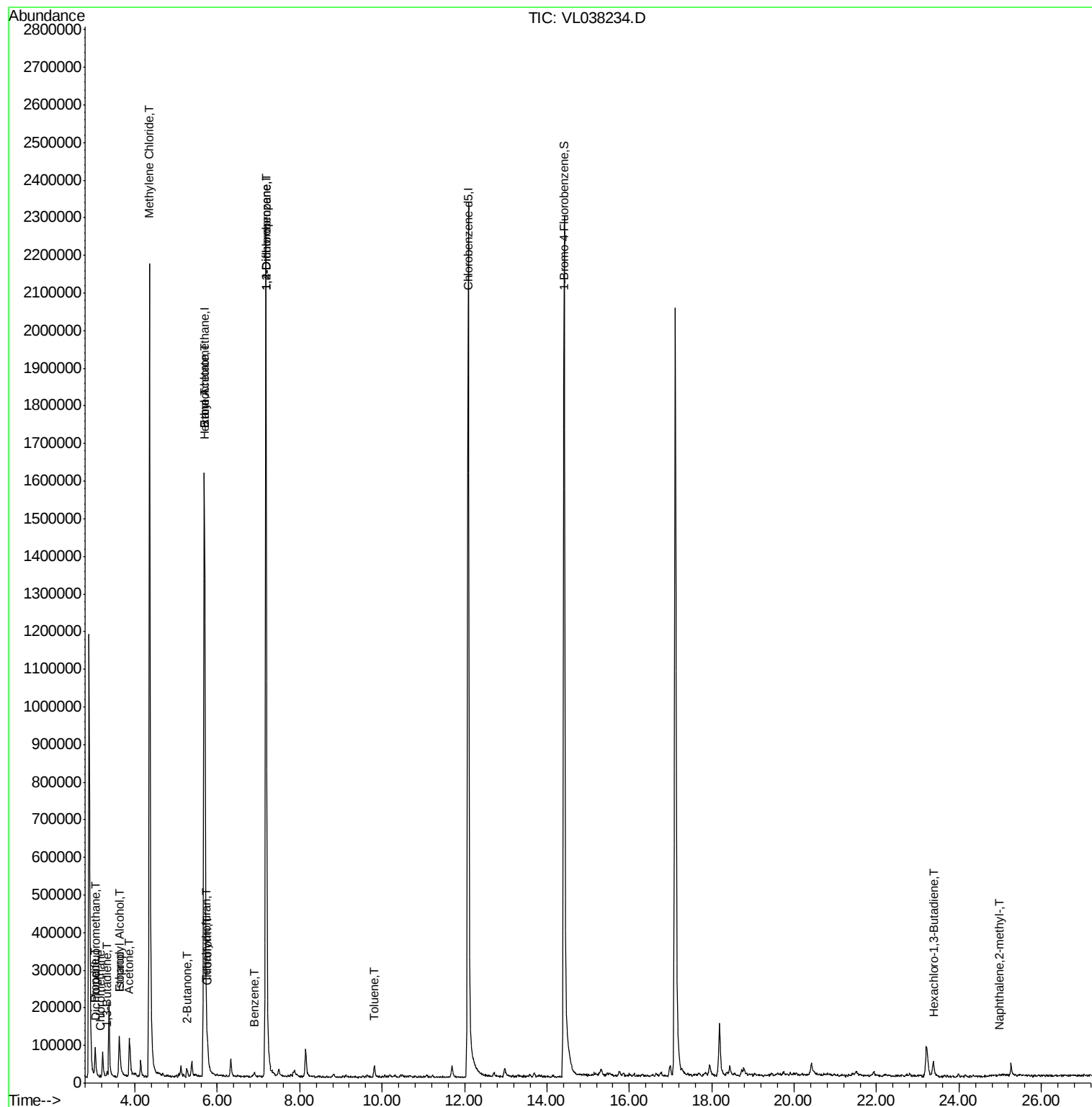
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	5806	0.042	ppbv	89
4) Chloromethane	3.15	50	1823	0.034	ppbv	92
9) Propene	3.03	41	20181	0.376	ppbv #	83
13) Ethanol	3.62	45	171003	18.800	ppbv #	100
15) Acetone	3.86	43	139999	1.897	ppbv	93
16) 1,3-Butadiene	3.33	39	3243	0.065	ppbv #	45
19) Isopropyl Alcohol	3.62	45	171003	3.715	ppbv #	35
20) Methylene Chloride	4.35	84	964525	23.149	ppbv	91
25) Ethyl Acetate	5.69	43	317741	1.589	ppbv #	76
26) Hexane	5.70	57	440084	4.387	ppbv #	44
29) Chloroform	5.75	83	29597	0.199	ppbv	89
34) 2-Butanone	5.26	43	27283	0.478	ppbv #	89
36) Benzene	6.89	78	5535	0.031	ppbv #	88
39) 1,2-Dichloropropane	7.18	63	495272	7.261	ppbv #	26
41) Tetrahydrofuran	5.75	42	2702	0.065	ppbv #	43
53) Toluene	9.82	91	9012	0.044	ppbv #	20
78) Hexachloro-1,3-Butadiene	23.38	225	2703	0.040	ppbv #	1
80) Naphthalene,2-methyl-	24.99	142	1479	0.068	ppbv #	64

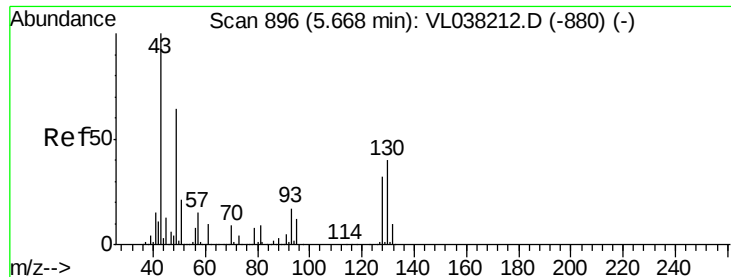
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 29 18:40:17 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL122121AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Dec 21 17:47:08 2021
QLast Update : Tue Dec 21 17:47:08 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Dec 2021 16:02

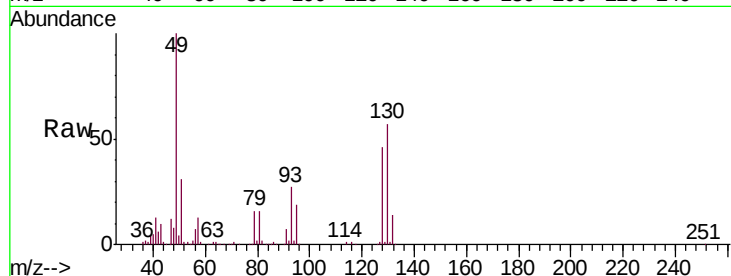
Tot Ion: 49 Resp: 735320

Ion Ratio Lower Upper

49 100

128 47.8 26.9 80.6

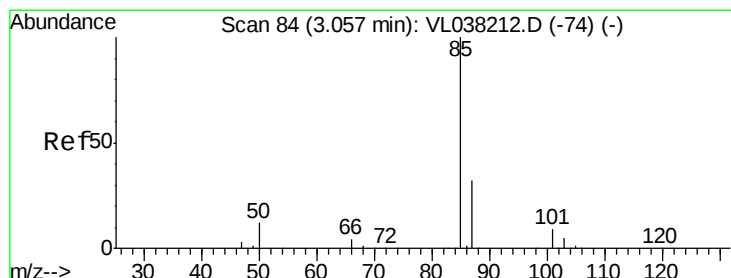
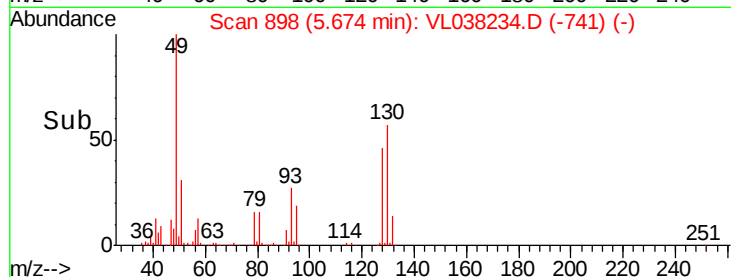
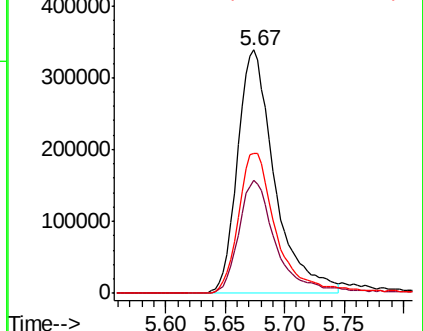
130 60.8 32.3 96.9



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: 0.042 ppbv

RT: 3.06 min Scan# 86

Delta R.T. 0.01 min

Lab File: VL038234.D

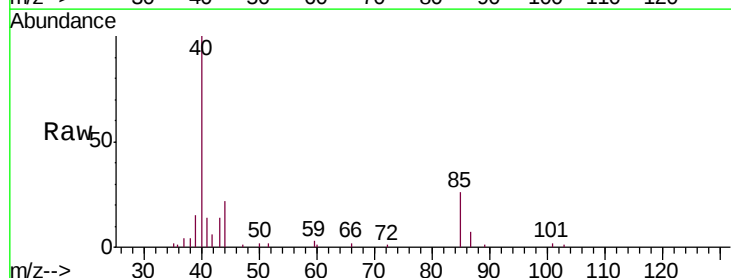
Acq: 29 Dec 2021 16:02

Tgt Ion: 85 Resp: 5806

Ion Ratio Lower Upper

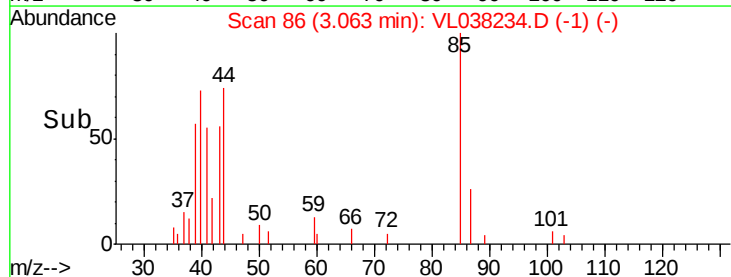
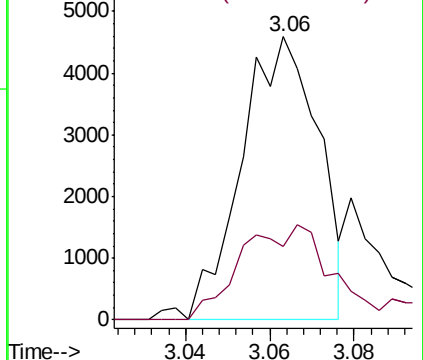
85 100

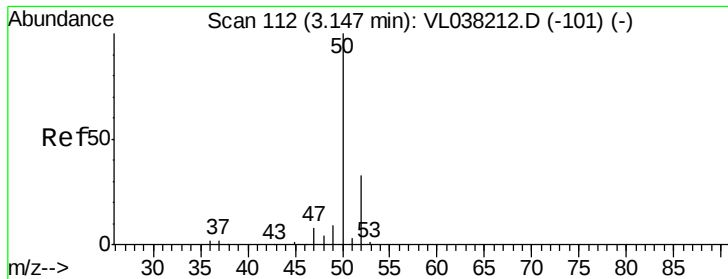
87 25.7 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#4

Chloromethane

Concen: 0.034 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_L

Lab File:

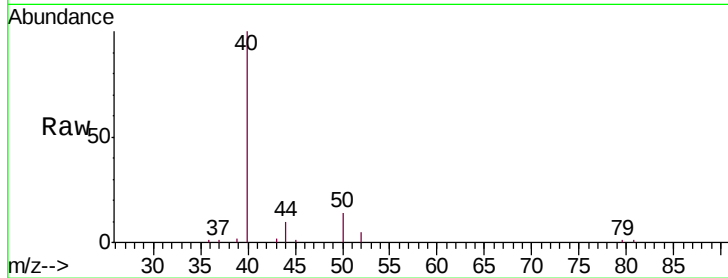
Acq: 29 Dec 2021 16:02

Tot Ion: 50 Resp: 1823

Ion Ratio Lower Upper

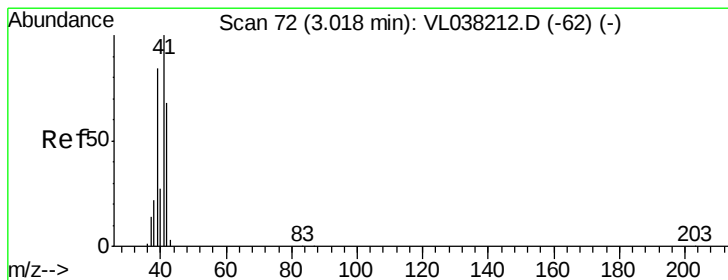
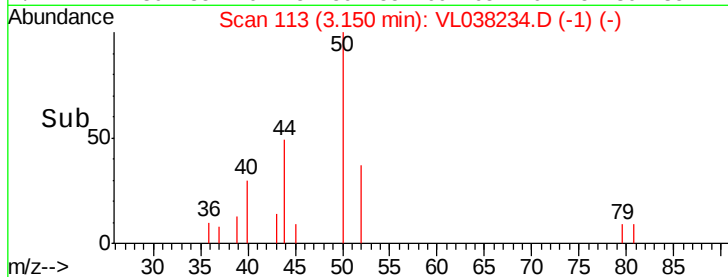
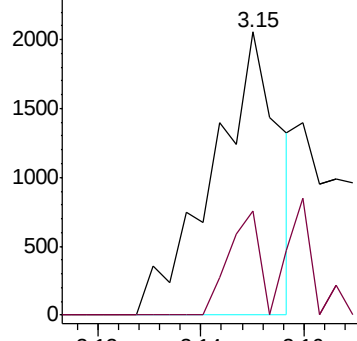
50 100

52 37.0 26.2 39.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 0.376 ppbv

RT: 3.03 min Scan# 77

Delta R.T. 0.02 min

Lab File: VL038234.D

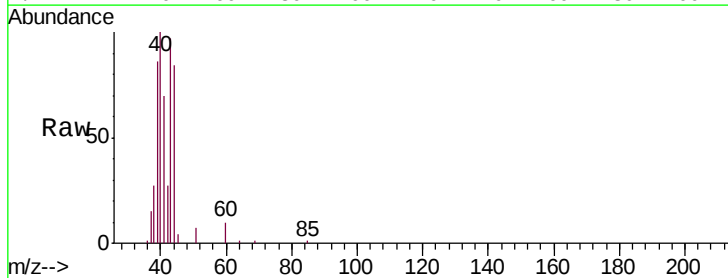
Acq: 29 Dec 2021 16:02

Tgt Ion: 41 Resp: 20181

Ion Ratio Lower Upper

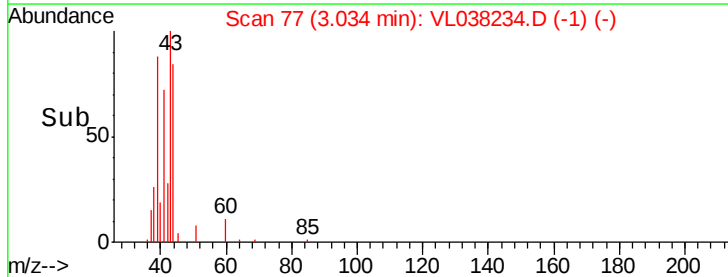
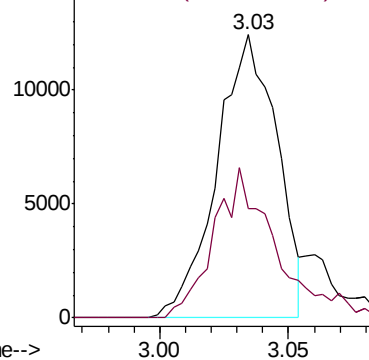
41 100

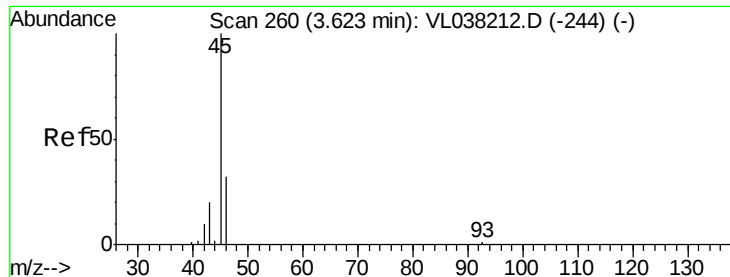
42 55.4 55.5 83.3#



Abundance Ion 41.10 (40.80 to 41.80): VL0

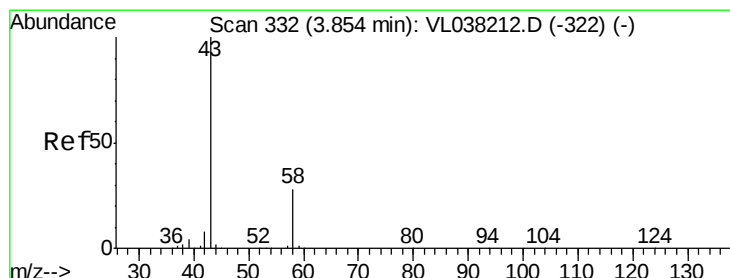
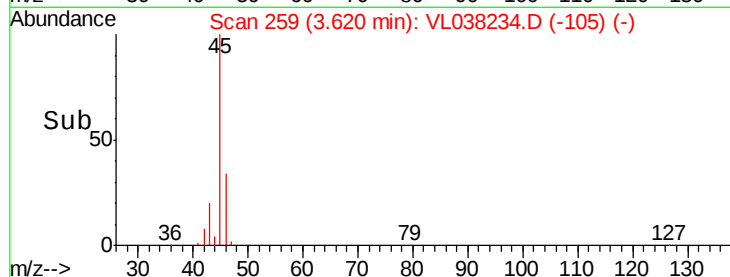
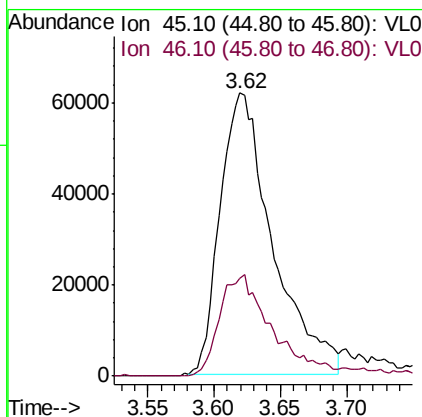
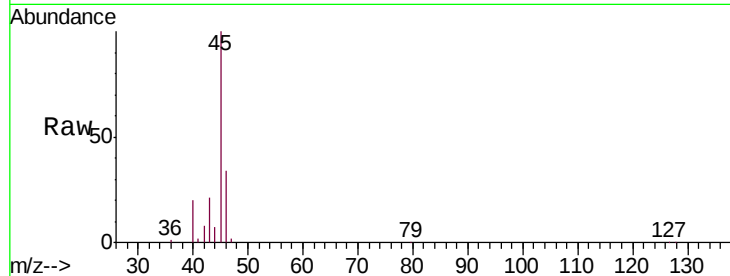
Ion 42.10 (41.80 to 42.80): VL0





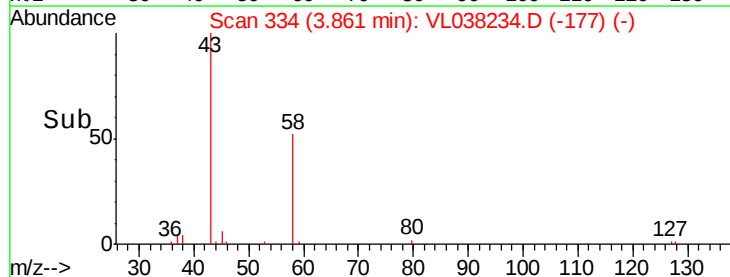
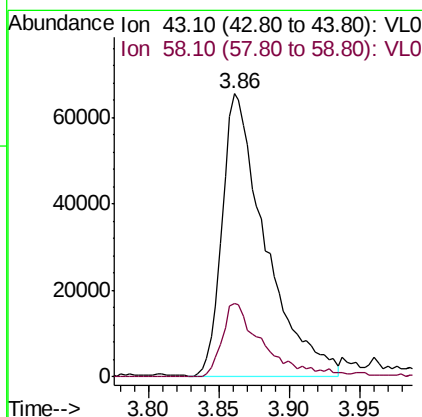
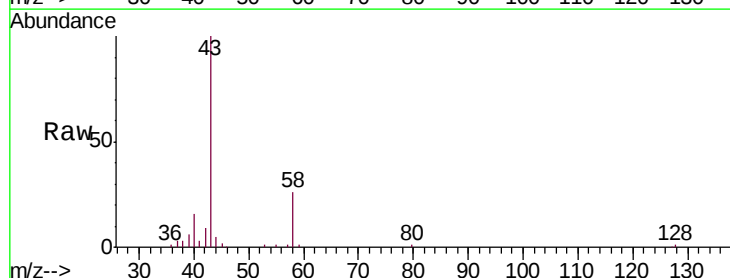
#13
Ethanol
Concen: 18.800 ppbv
RT: 3.62
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 29 Dec 2021 16:02

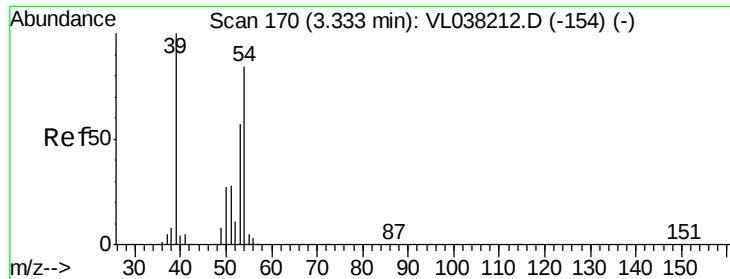
Tot Ion: 45 Resp: 171003
Ion Ratio Lower Upper
45 100
46 36.8 0.0 0.0#



#15
Acetone
Concen: 1.897 ppbv
RT: 3.86 min Scan# 334
Delta R.T. 0.01 min
Lab File: VL038234.D
Acq: 29 Dec 2021 16:02

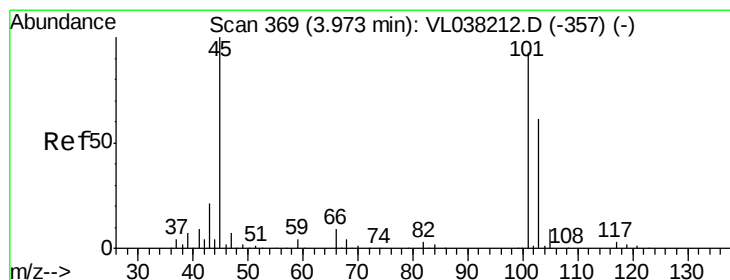
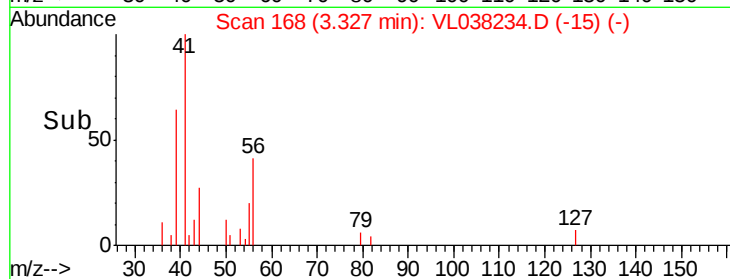
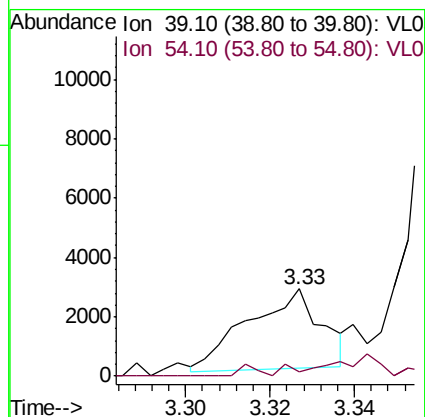
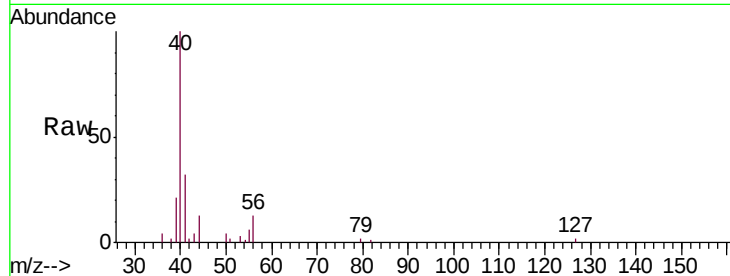
Tgt Ion: 43 Resp: 139999
Ion Ratio Lower Upper
43 100
58 25.5 23.3 34.9





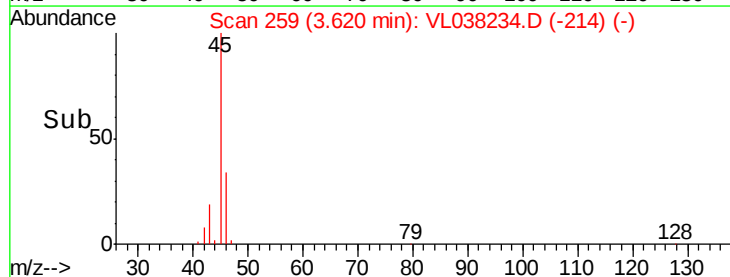
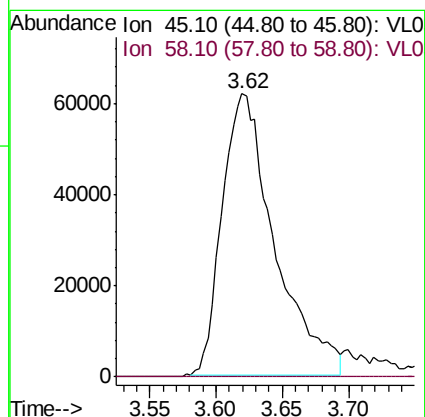
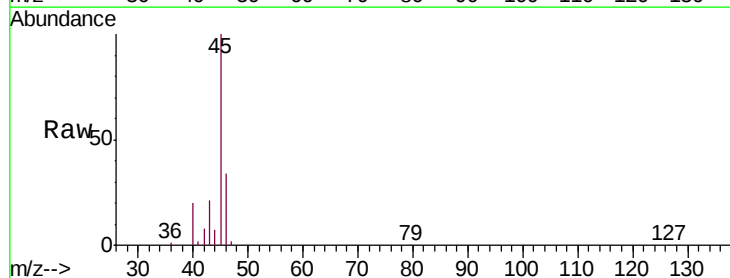
#16
 1,3-Butadiene
 Concen: 0.065 ppbv
 RT: 3.33
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 29 Dec 2021 16:02

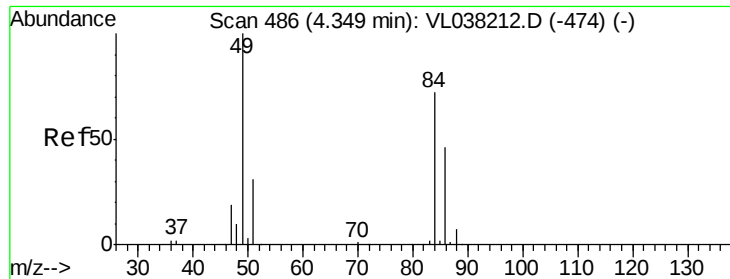
Tot Ion: 39 Resp: 3243
 Ion Ratio Lower Upper
 39 100
 54 30.9 62.9 94.3#



#19
 Isopropyl Alcohol
 Concen: 3.715 ppbv
 RT: 3.62 min Scan# 259
 Delta R.T. -0.35 min
 Lab File: VL038234.D
 Acq: 29 Dec 2021 16:02

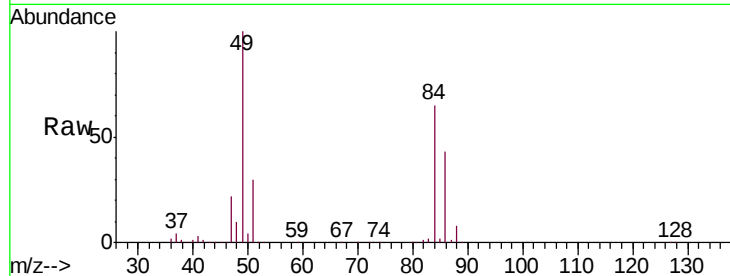
Tgt Ion: 45 Resp: 171003
 Ion Ratio Lower Upper
 45 100
 58 0.0 32.4 48.6#





#20
Methylene Chloride
Concen: 23.149 ppbv
RT: 4.35 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 29 Dec 2021 16:02

Tot Ion:	84	Resp:	964525
Ion	Ratio	Lower	Upper
84	100		
49	152.9	110.6	166.0
51	46.6	34.2	51.2
86	65.4	50.5	75.7



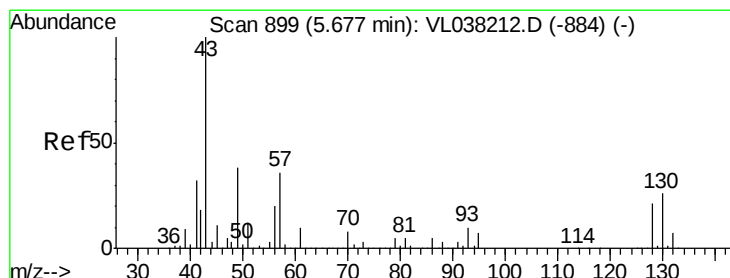
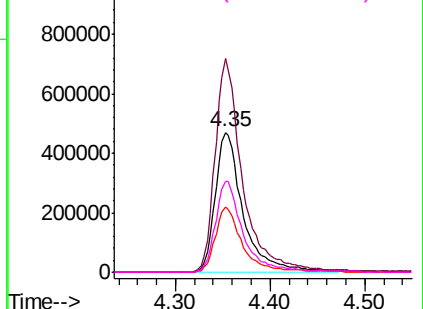
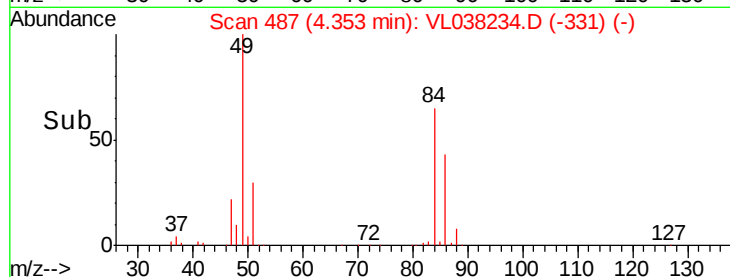
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

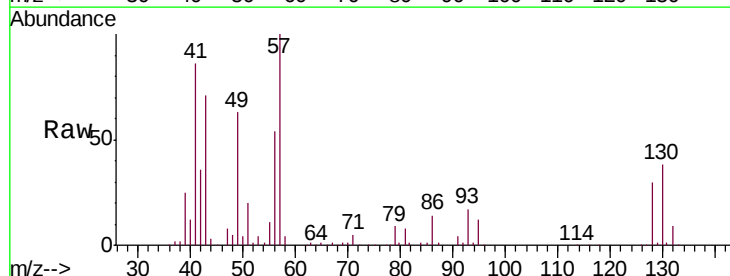
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#25
Ethyl Acetate
Concen: 1.589 ppbv
RT: 5.69 min Scan# 904
Delta R.T.: 0.02 min
Lab File: VL038234.D
Acq: 29 Dec 2021 16:02

Tgt Ion:	43	Resp:	317741
Ion	Ratio	Lower	Upper
43	100		
45	0.5	7.9	11.9#
61	0.1	8.1	12.1#
70	1.3	5.5	8.3#



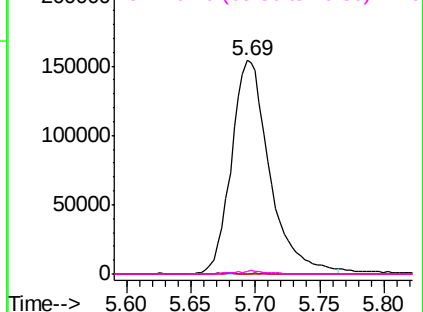
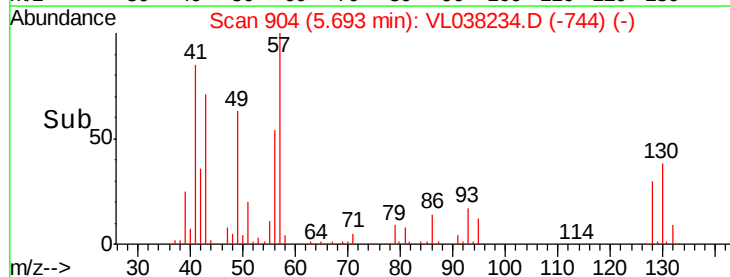
Abundance

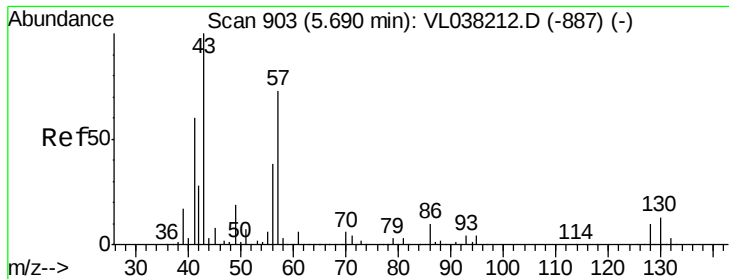
Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

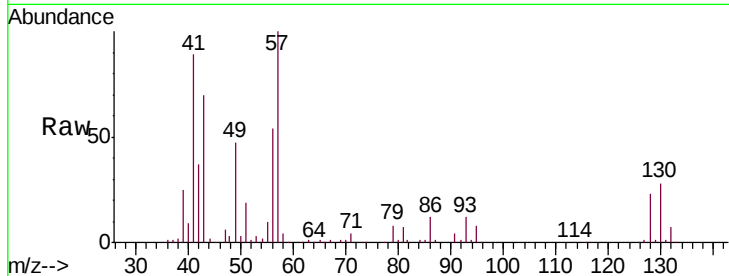
Ion 70.10 (69.80 to 70.80): VL0



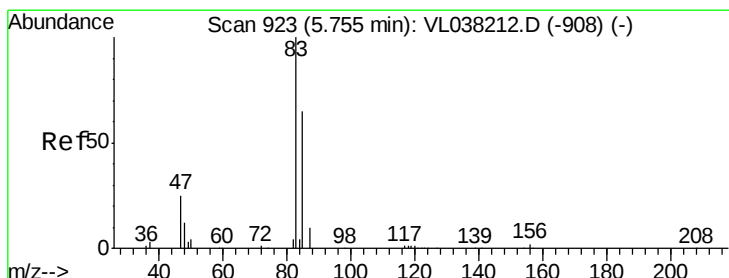
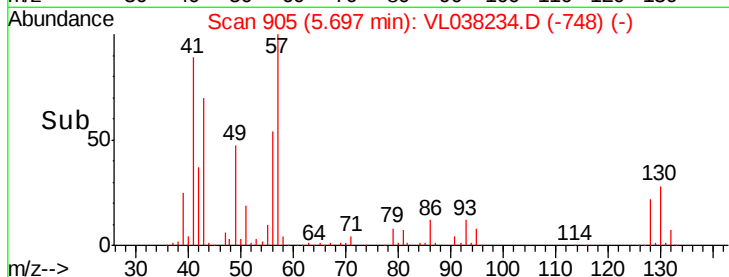
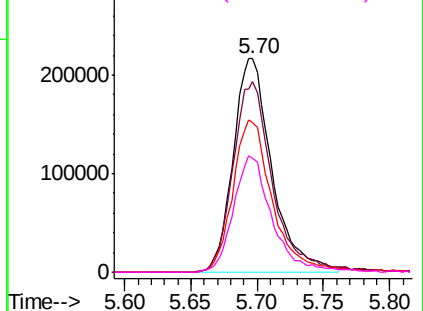


#26
Hexane
Concen: 4.387 ppbv
RT: 5.70
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 29 Dec 2021 16:02

Tot Ion:	57	Resp:	440084
Ion Ratio	Lower	Upper	
57	100		
41	93.1	69.0	103.6
43	74.0	171.2	256.8#
56	54.4	41.5	62.3

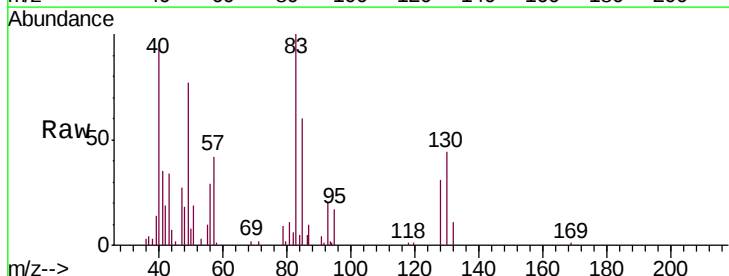


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

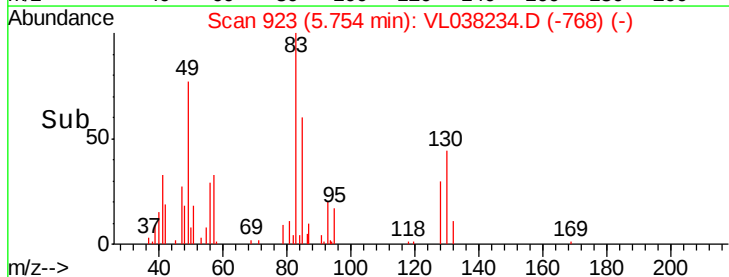
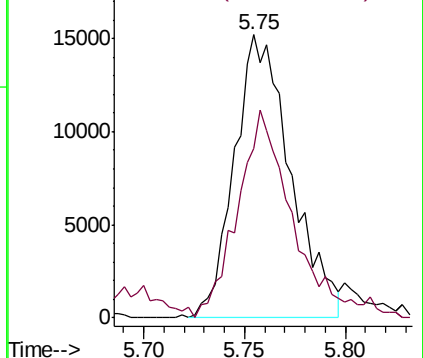


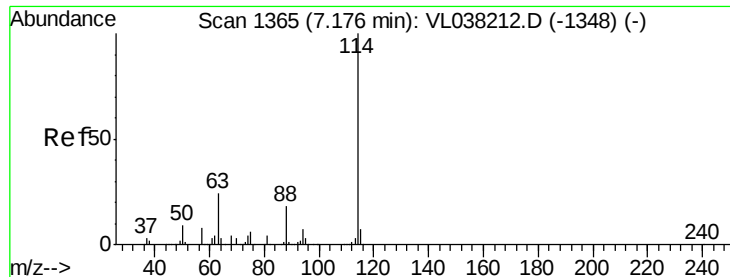
#29
Chloroform
Concen: 0.199 ppbv
RT: 5.75 min Scan# 923
Delta R.T. -0.00 min
Lab File: VL038234.D
Acq: 29 Dec 2021 16:02

Tgt Ion:	83	Resp:	29597
Ion Ratio	Lower	Upper	
83	100		
85	56.2	52.2	78.4



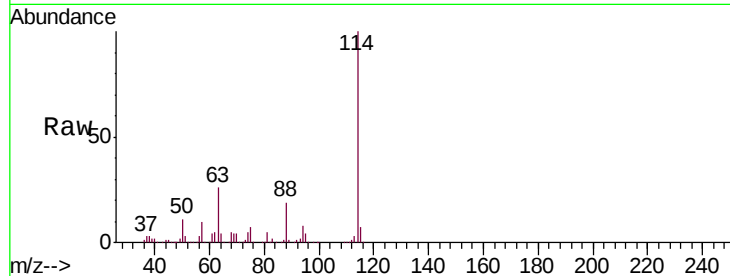
Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0



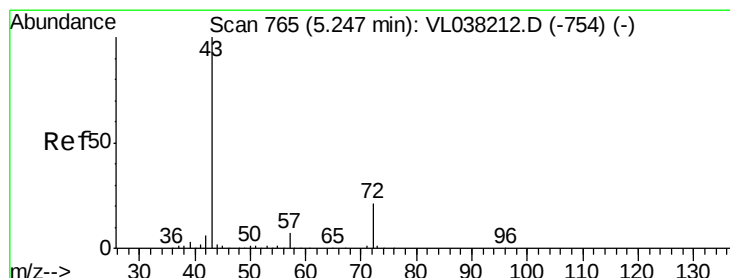
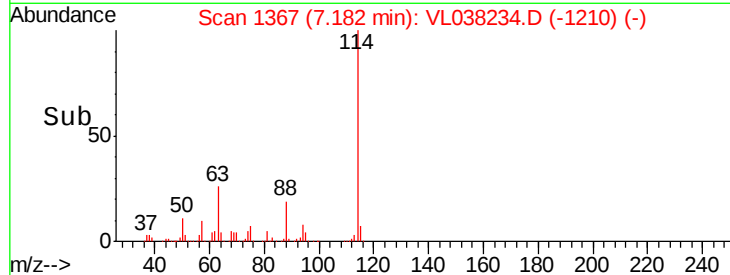
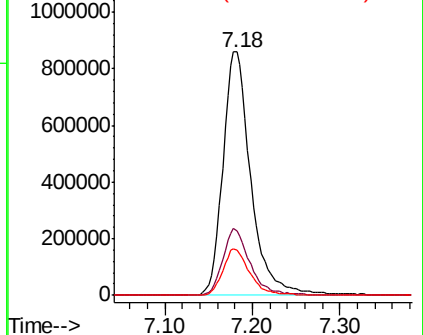


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 29 Dec 2021 16:02

Tot Ion:114 Resp: 1899907
 Ion Ratio Lower Upper
 114 100
 63 27.0 19.7 29.5
 88 18.8 14.3 21.5

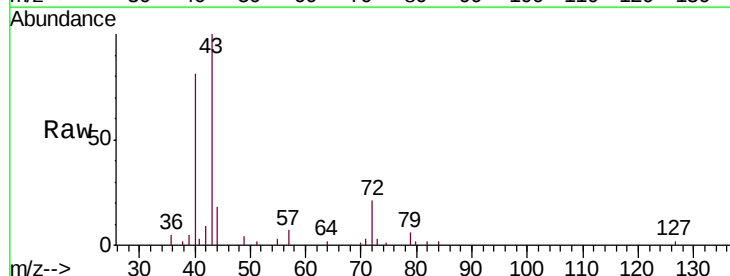


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

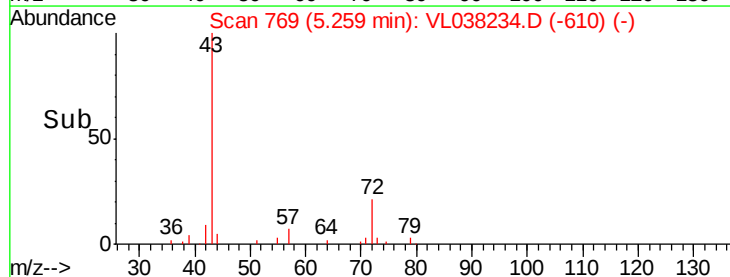
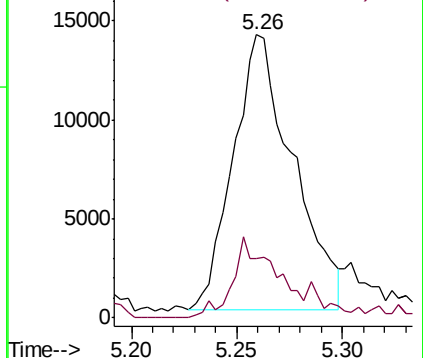


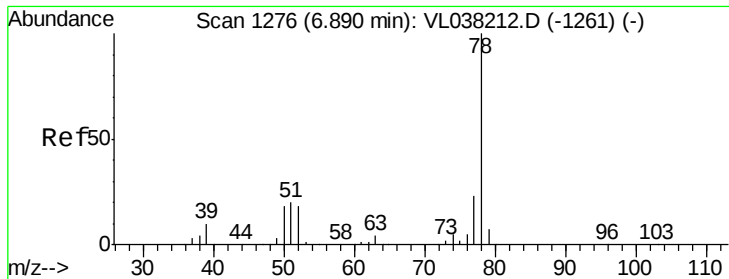
#34
 2-Butanone
 Concen: 0.478 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.01 min
 Lab File: VL038234.D
 Acq: 29 Dec 2021 16:02

Tgt Ion: 43 Resp: 27283
 Ion Ratio Lower Upper
 43 100
 72 28.0 18.3 27.5#



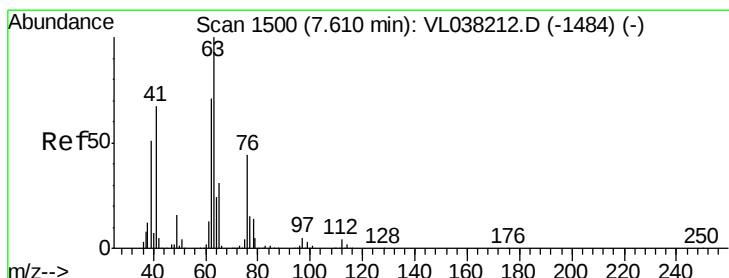
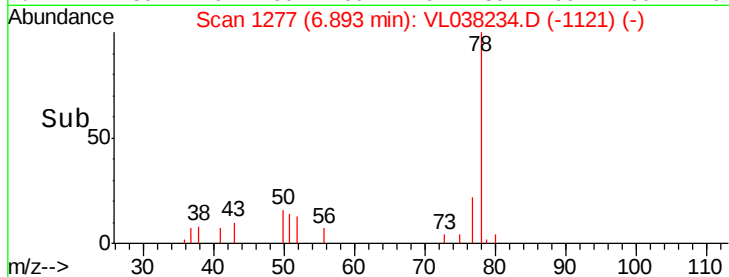
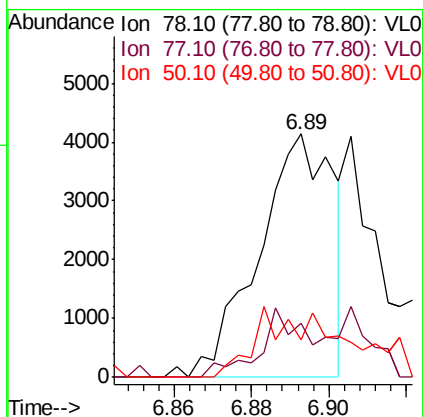
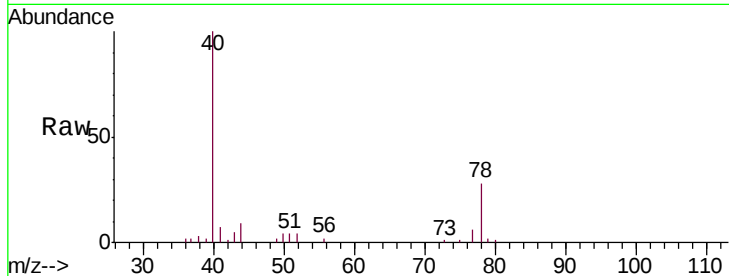
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





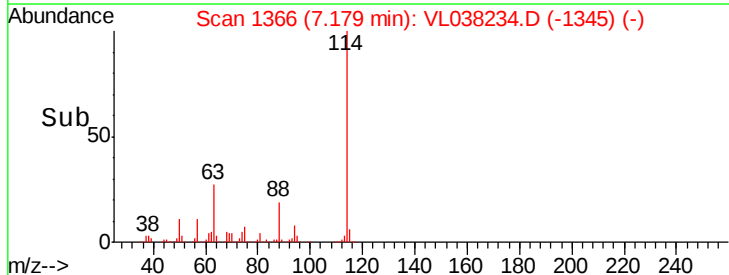
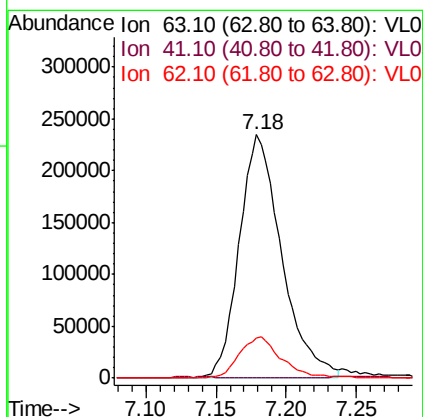
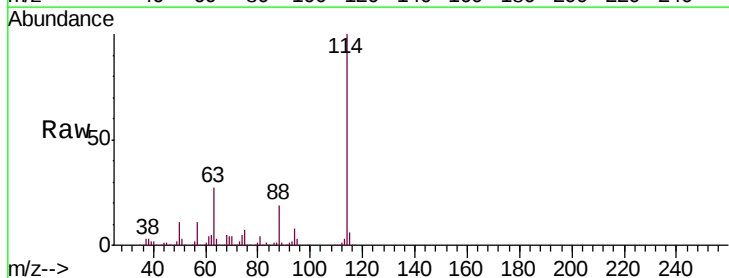
#36
Benzene
Concen: 0.031 ppbv
RT: 6.89
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 29 Dec 2021 16:02

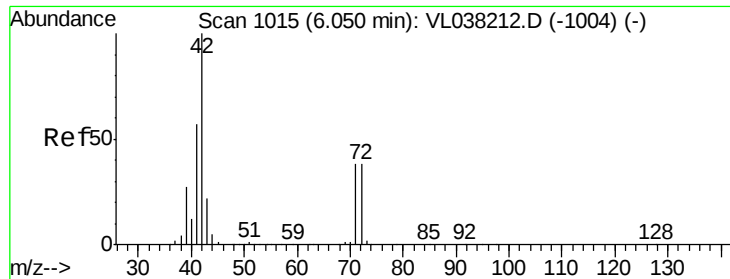
Tot Ion: 78 Resp: 5535
Ion Ratio Lower Upper
78 100
77 22.4 18.2 27.4
50 29.7 14.3 21.5#



#39
1,2-Dichloropropane
Concen: 7.261 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.43 min
Lab File: VL038234.D
Acq: 29 Dec 2021 16:02

Tgt Ion: 63 Resp: 495272
Ion Ratio Lower Upper
63 100
41 0.0 53.4 80.2#
62 16.5 56.5 84.7#





#41

Tetrahydrofuran

Concen: 0.065 ppbv

RT: 5.75 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Dec 2021 16:02

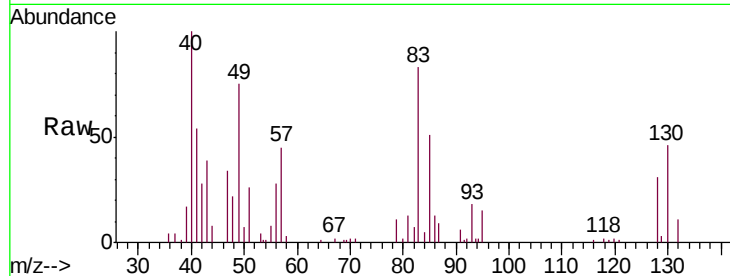
Tot Ion: 42 Resp: 2702

Ion Ratio Lower Upper

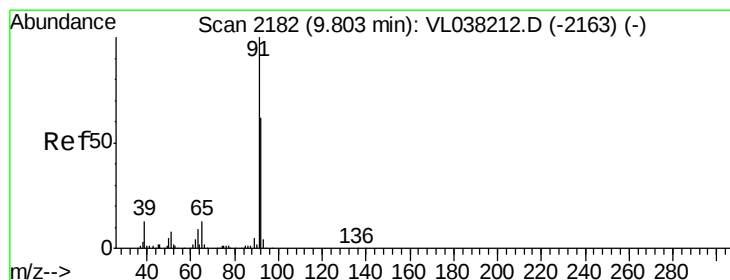
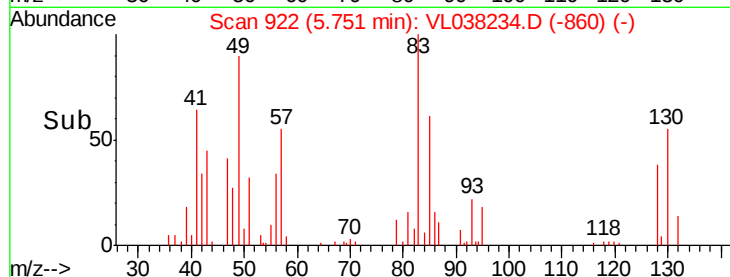
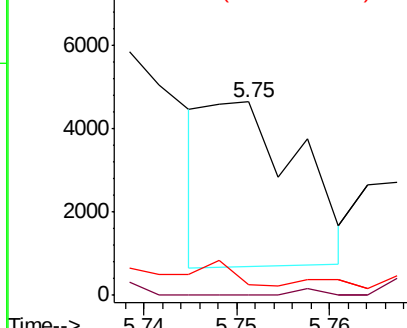
42 100

72 7.0 31.4 47.0#

71 0.0 30.0 45.0#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#53

Toluene

Concen: 0.044 ppbv

RT: 9.82 min Scan# 2186

Delta R.T. 0.01 min

Lab File: VL038234.D

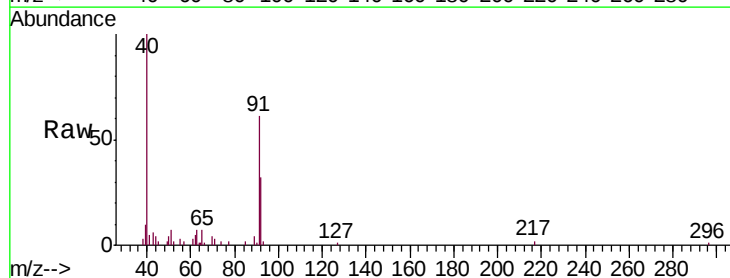
Acq: 29 Dec 2021 16:02

Tgt Ion: 91 Resp: 9012

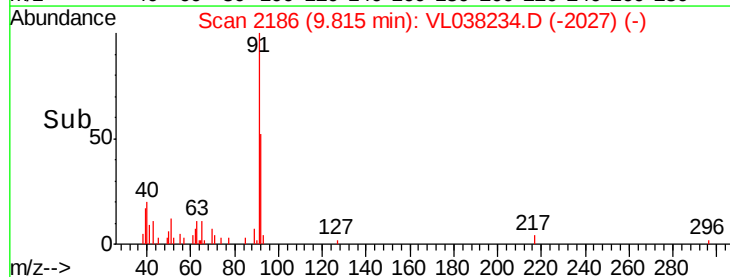
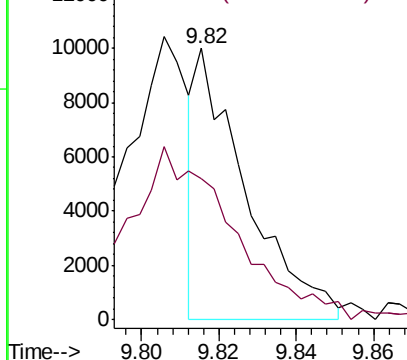
Ion Ratio Lower Upper

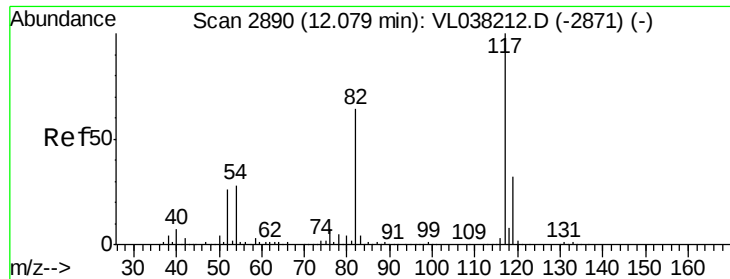
91 100

92 0.0 48.9 73.3#



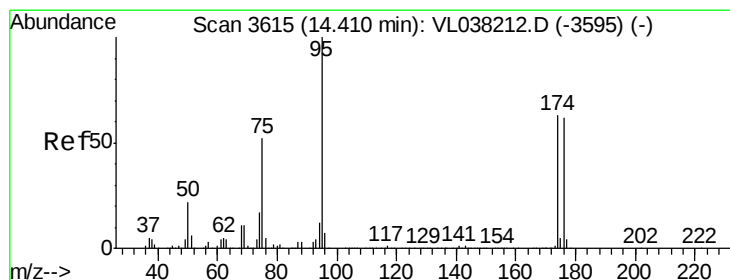
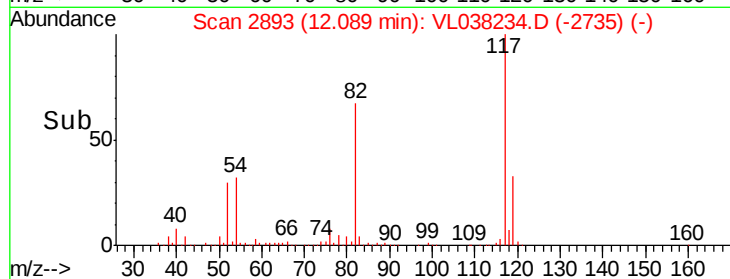
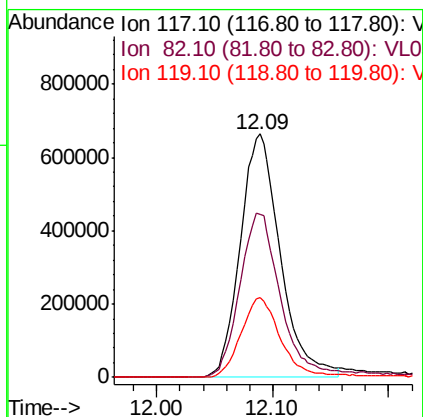
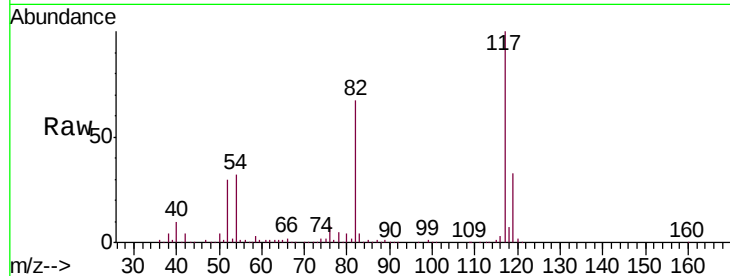
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0





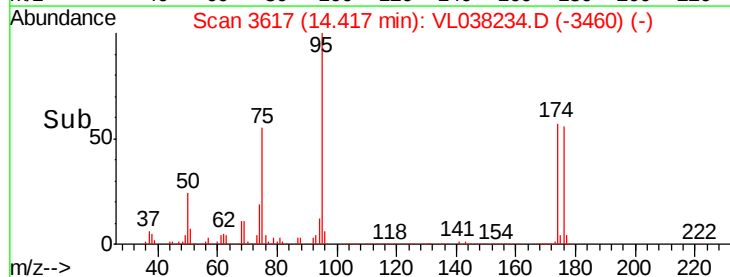
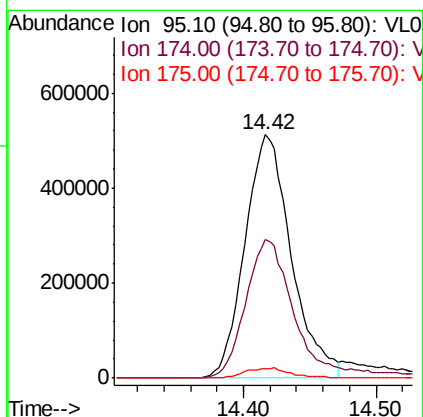
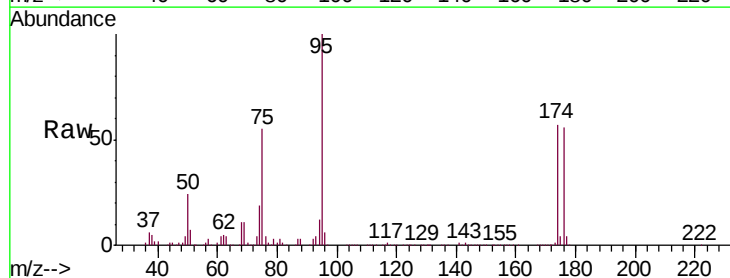
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 29 Dec 2021 16:02

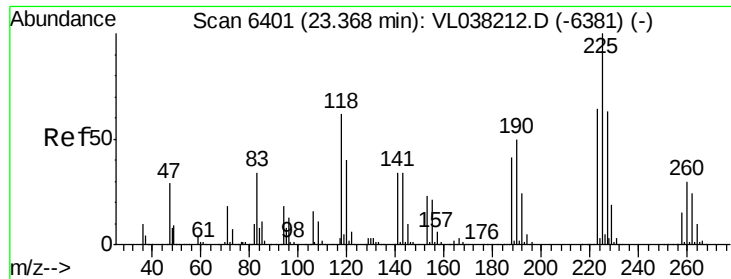
Tot Ion: 117 Resp: 1595911
Ion Ratio Lower Upper
117 100
82 73.6 53.3 79.9
119 33.6 25.5 38.3



#68
1-Bromo-4-Fluorobenzene
Concen: 10.161 ppbv
RT: 14.42 min Scan# 3617
Delta R.T.: 0.01 min
Lab File: VL038234.D
Acq: 29 Dec 2021 16:02

Tgt Ion: 95 Resp: 1249643
Ion Ratio Lower Upper
95 100
174 63.1 54.6 81.8
175 4.4 4.1 6.1





#78

Hexachloro-1,3-Butadiene

Concen: 0.040 ppbv

RT: 23.38 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 29 Dec 2021 16:02

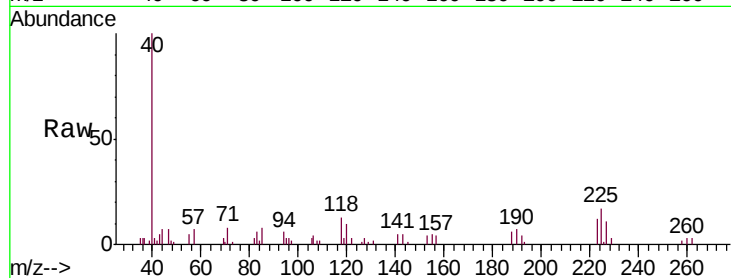
Tot Ion: 225 Resp: 2703

Ion Ratio Lower Upper

225 100

223 178.1 51.5 77.3#

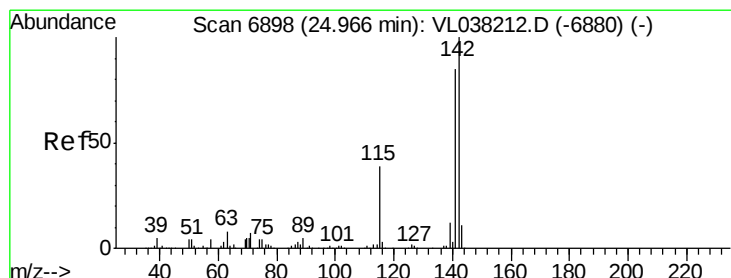
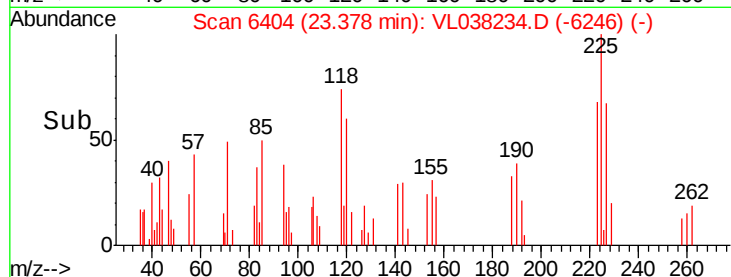
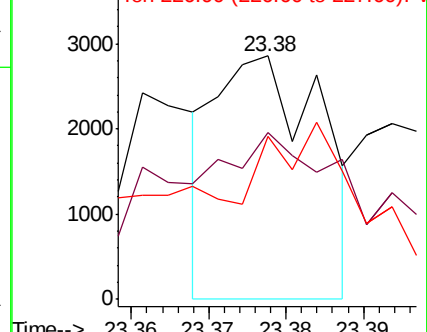
227 189.2 51.9 77.9#



Abundance Ion 224.90 (224.60 to 225.60): V

Ion 222.90 (222.60 to 223.60): V

Ion 226.90 (226.60 to 227.60): V



#80

Naphthalene, 2-methyl-

Concen: 0.068 ppbv

RT: 24.99 min Scan# 6904

Delta R.T. 0.02 min

Lab File: VL038234.D

Acq: 29 Dec 2021 16:02

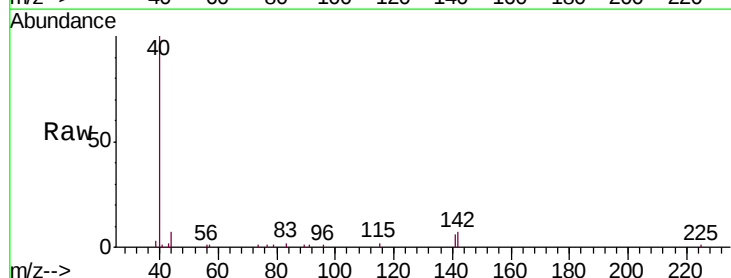
Tgt Ion: 142 Resp: 1479

Ion Ratio Lower Upper

142 100

141 102.2 66.7 100.1#

115 78.2 29.4 44.0#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

