

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030322\
 Data File : VL038512.D
 Acq On : 3 Mar 2022 13:46
 Operator : SY/AP
 Sample : CAN 10727
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Mar 04 04:33:18 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL022222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 22 19:45:51 2022
 QLast Update : Tue Feb 22 19:45:51 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	834345	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	1948659	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	1641309	10.00	ppbv	0.02

System Monitoring Compounds

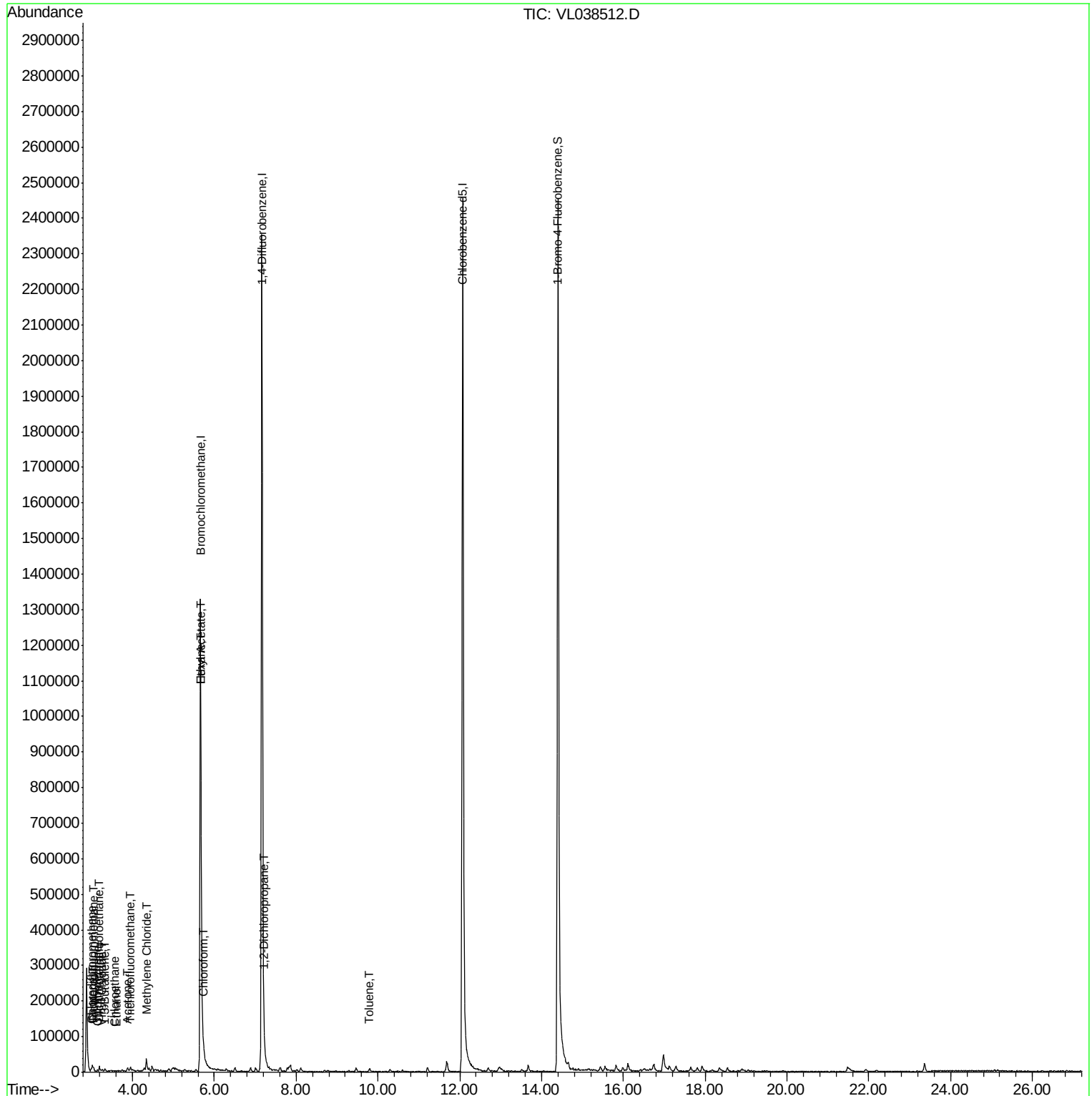
68) 1-Bromo-4-Fluorobenzene	14.40	95	1366438	10.06	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

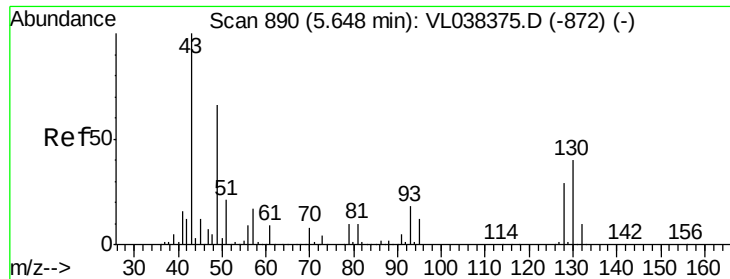
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	5757	0.044 ppbv #	44
3) Chlorodifluoromethane	3.00	51	9605	0.065 ppbv	100
4) Chloromethane	3.14	50	2937	0.057 ppbv #	84
5) Vinyl Chloride	3.25	62	1657	0.031 ppbv #	73
7) Chloroethane	3.56	64	1371	0.080 ppbv	97
8) Dichlorotetrafluoroethane	3.19	85	7517	0.061 ppbv	93
9) Propene	3.02	41	5687	0.117 ppbv	95
11) Trichlorofluoromethane	3.94	101	5756	0.045 ppbv	100
13) Ethanol	3.61	45	177	0.036 ppbv #	31
15) Acetone	3.87	43	9396	0.132 ppbv #	48
16) 1,3-Butadiene	3.33	39	2090	0.044 ppbv #	64
20) Methylene Chloride	4.34	84	7432	0.211 ppbv	86
25) Ethyl Acetate	5.68	43	7103	0.037 ppbv #	76
26) Hexane	5.68	57	9645	0.112 ppbv #	66
29) Chloroform	5.74	83	4336	0.031 ppbv #	64
39) 1,2-Dichloropropane	7.22	63	8628	0.126 ppbv #	24
53) Toluene	9.79	91	6022	0.032 ppbv #	79

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

```
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QLast Update : Tue Feb 22 19:45:51 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Mar 2022 13:46

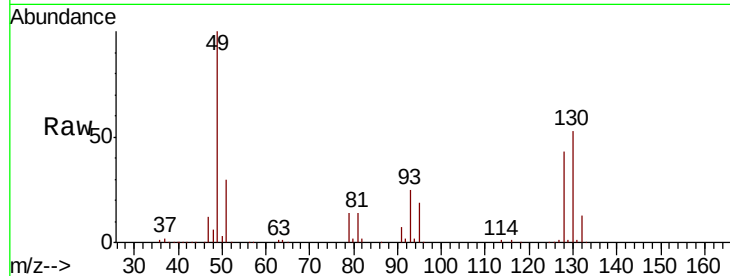
Tot Ion: 49 Resp: 834345

Ion Ratio Lower Upper

49 100

128 45.4 24.3 72.9

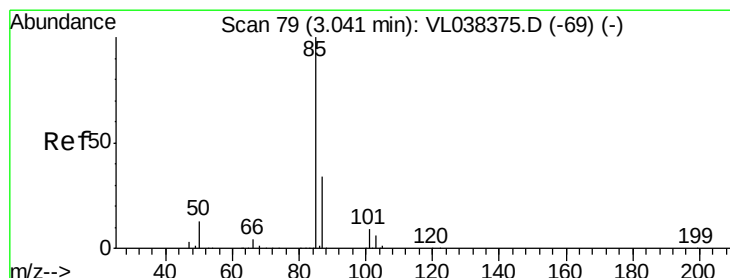
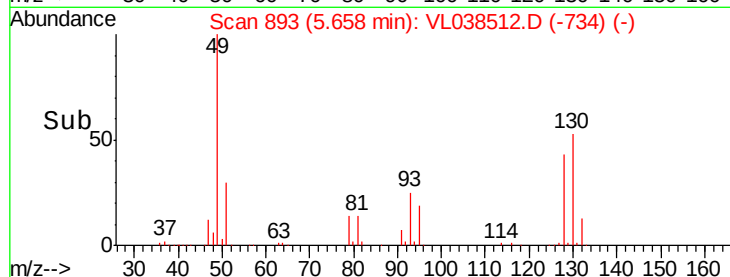
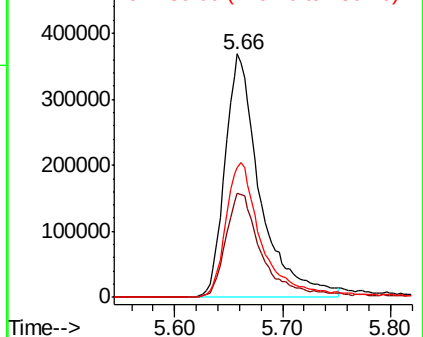
130 58.4 30.1 90.5



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: 0.044 ppbv

RT: 3.05 min Scan# 82

Delta R.T. 0.01 min

Lab File: VL038512.D

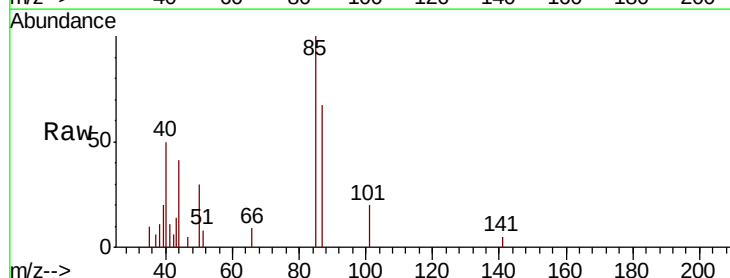
Acq: 3 Mar 2022 13:46

Tgt Ion: 85 Resp: 5757

Ion Ratio Lower Upper

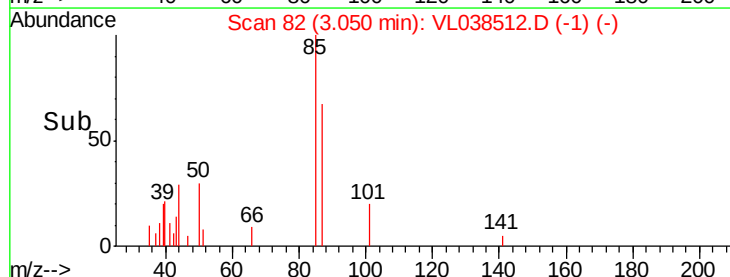
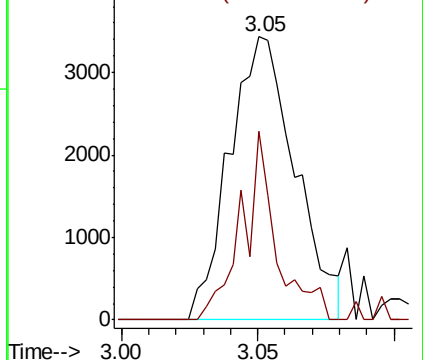
85 100

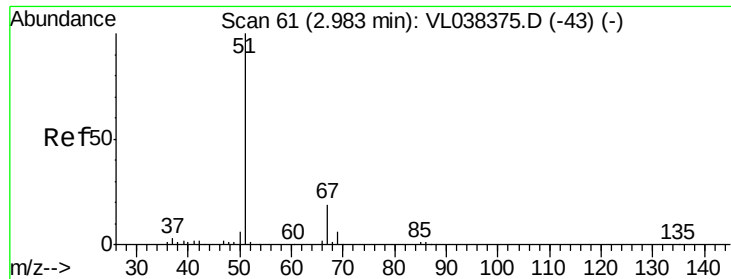
87 66.6 27.4 41.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.065 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

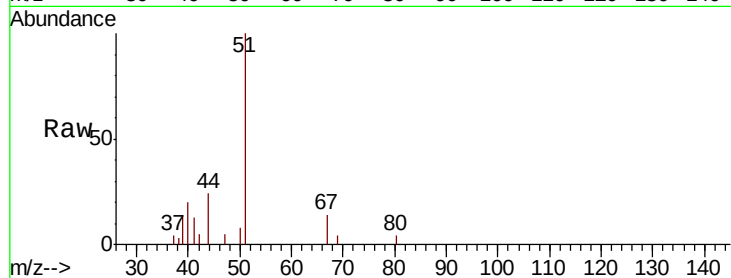
Acq: 3 Mar 2022 13:48

Tot Ion: 51 Resp: 9605

Ion Ratio Lower Upper

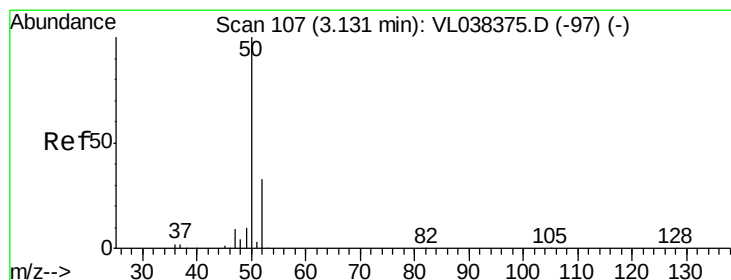
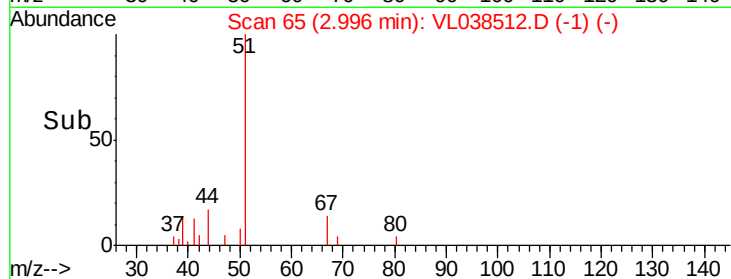
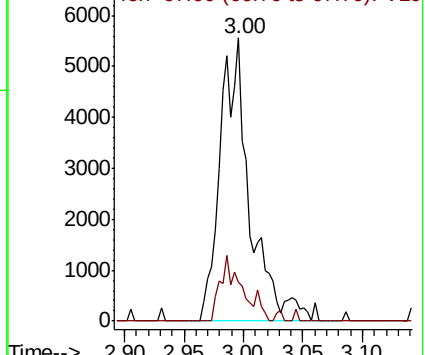
51 100

67 18.4 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.057 ppbv

RT: 3.14 min Scan# 111

Delta R.T. 0.01 min

Lab File: VL038512.D

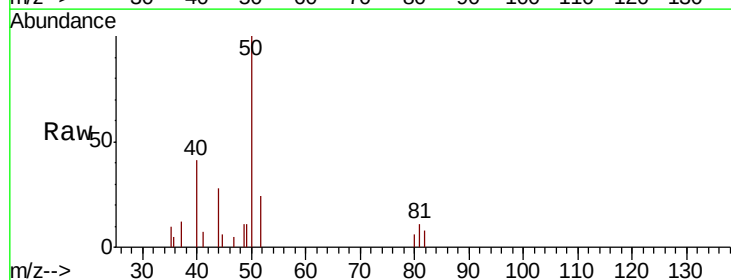
Acq: 3 Mar 2022 13:46

Tgt Ion: 50 Resp: 2937

Ion Ratio Lower Upper

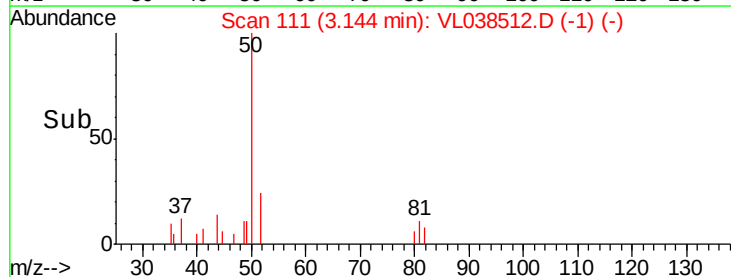
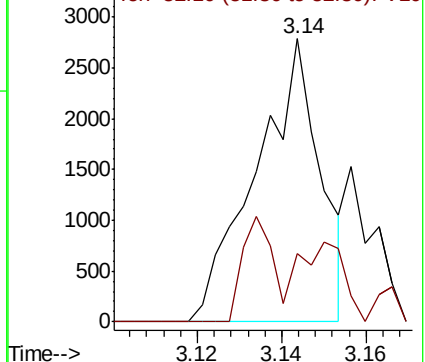
50 100

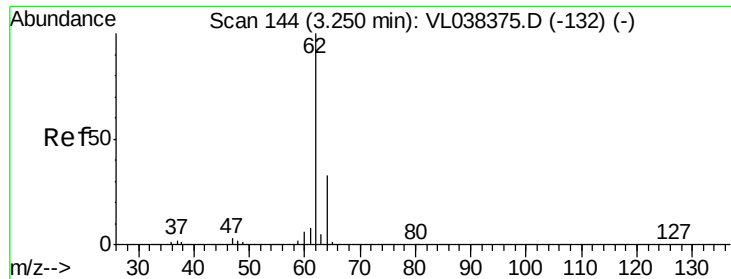
52 24.0 26.5 39.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.031 ppbv

RT: 3.25 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

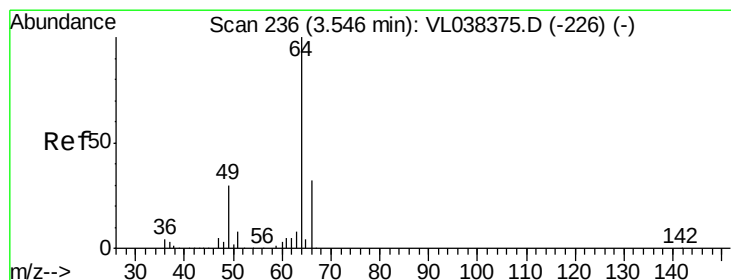
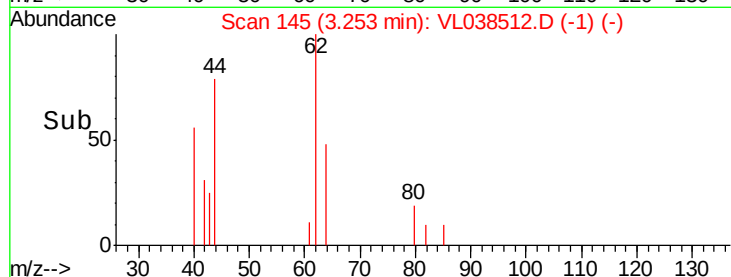
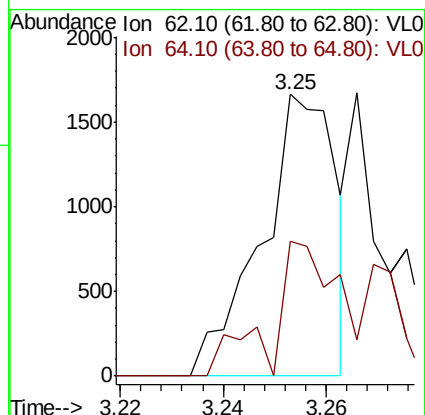
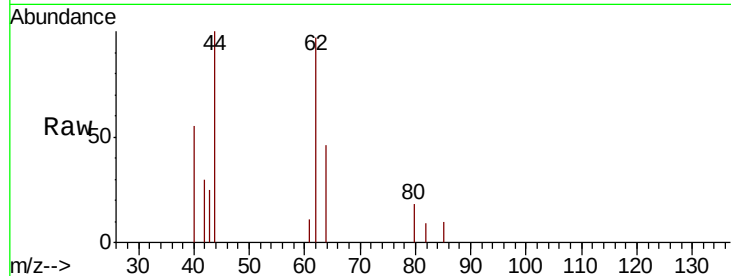
Acq: 3 Mar 2022 13:40

Tot Ion: 62 Resp: 1657

Ion Ratio Lower Upper

62 100

64 47.9 26.2 39.2#



#7

Chloroethane

Concen: 0.080 ppbv

RT: 3.56 min Scan# 239

Delta R.T. 0.01 min

Lab File: VL038512.D

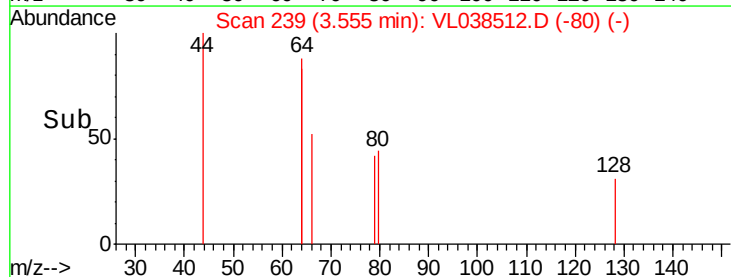
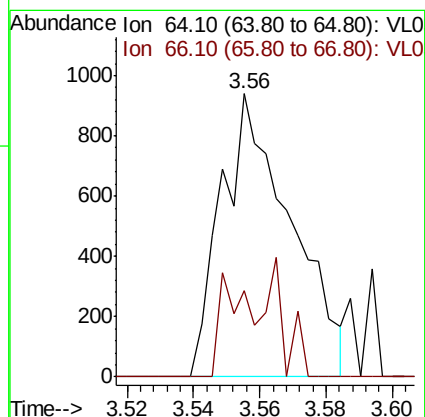
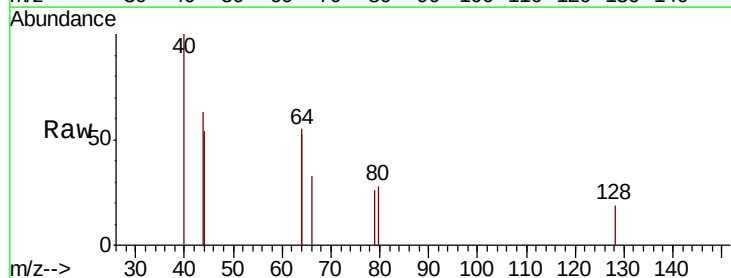
Acq: 3 Mar 2022 13:46

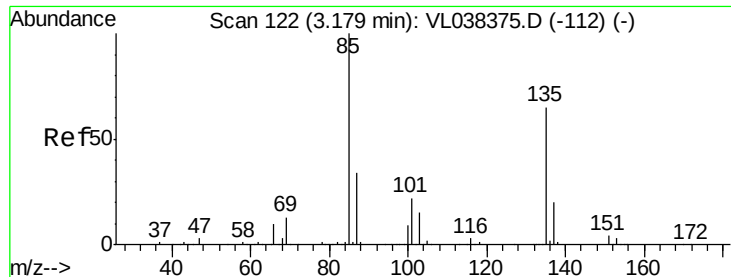
Tgt Ion: 64 Resp: 1371

Ion Ratio Lower Upper

64 100

66 30.6 25.9 38.9





#8

Dichlorotetrafluoroethane

Concen: 0.061 ppbv

RT: 3.19 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

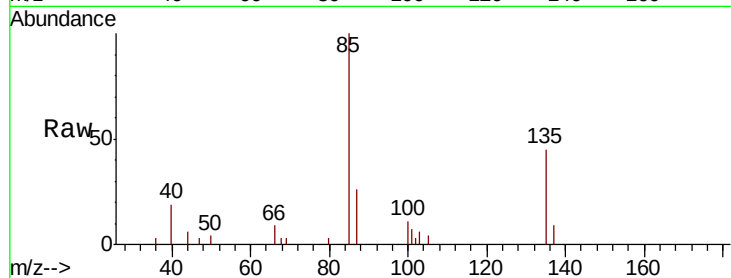
Acq: 3 Mar 2022 13:40

Tot Ion: 85 Resp: 7517

Ion Ratio Lower Upper

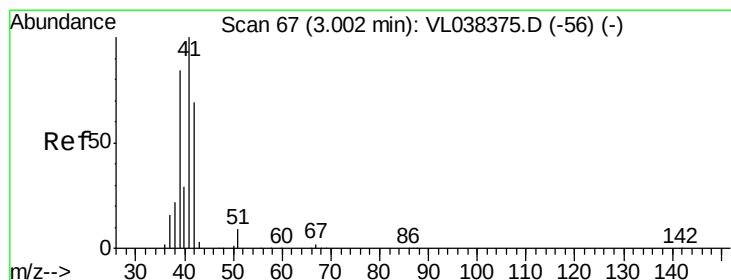
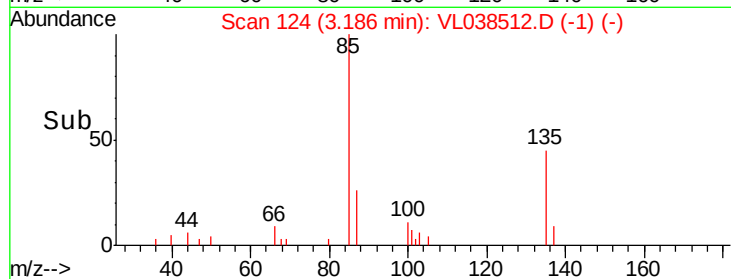
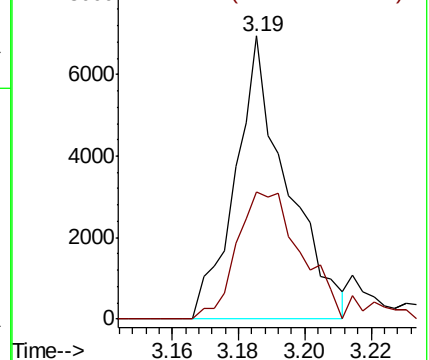
85 100

135 62.1 54.1 81.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 0.117 ppbv

RT: 3.02 min Scan# 71

Delta R.T. 0.01 min

Lab File: VL038512.D

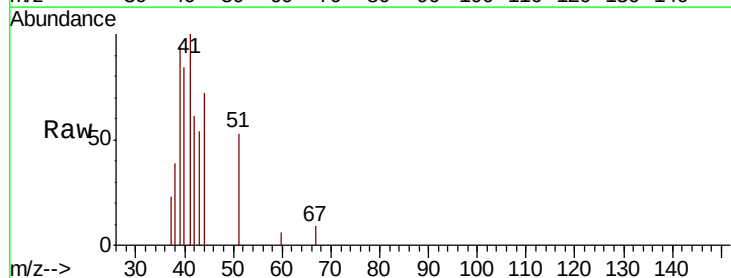
Acq: 3 Mar 2022 13:46

Tgt Ion: 41 Resp: 5687

Ion Ratio Lower Upper

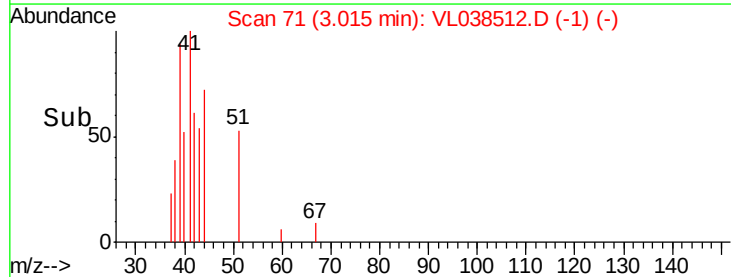
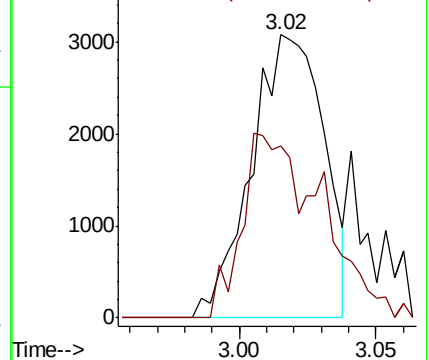
41 100

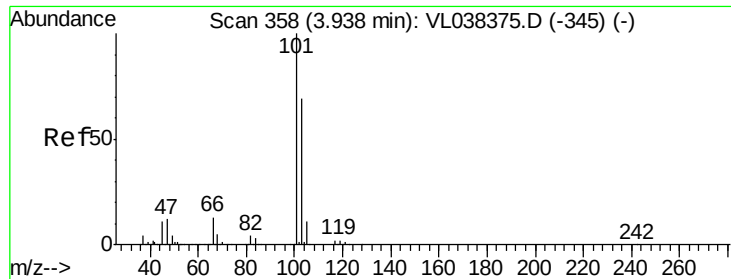
42 72.0 54.6 82.0



Abundance Ion 41.10 (40.80 to 41.80): VL0

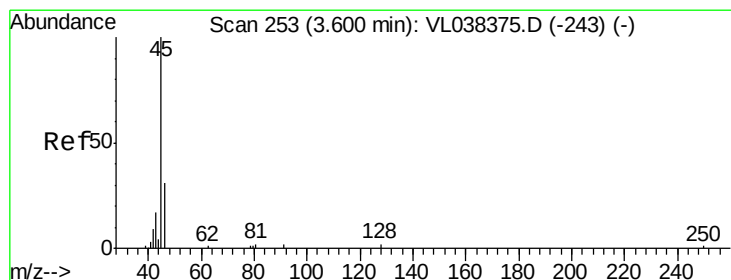
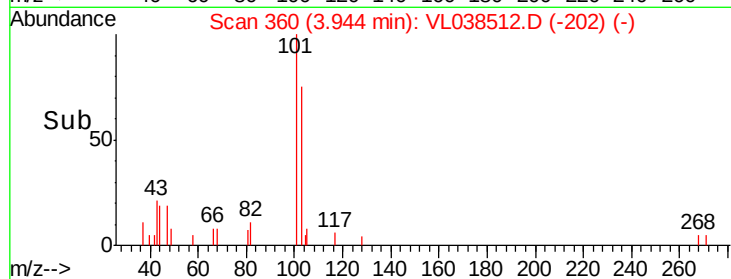
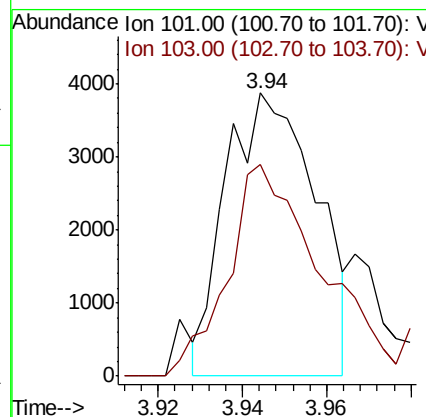
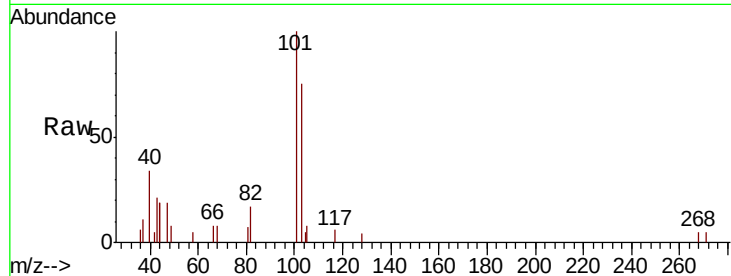
Ion 42.10 (41.80 to 42.80): VL0





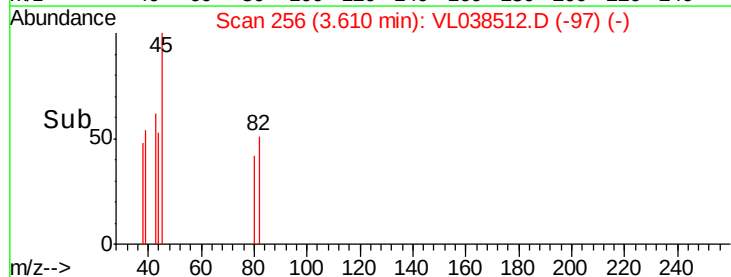
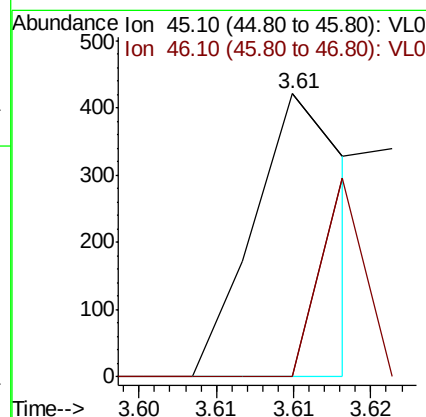
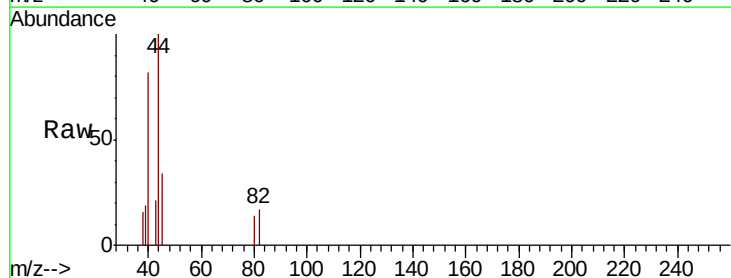
#11
 Trichlorofluoromethane
 Concen: 0.045 ppbv
 RT: 3.94 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Mar 2022 13:40

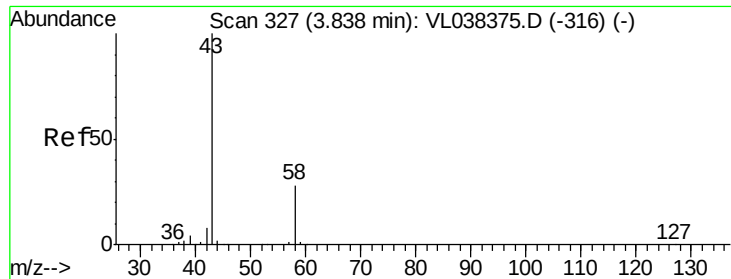
Tot Ion: 101 Resp: 5756
 Ion Ratio Lower Upper
 101 100
 103 68.6 55.0 82.4



#13
 Ethanol
 Concen: 0.036 ppbv
 RT: 3.61 min Scan# 256
 Delta R.T. 0.01 min
 Lab File: VL038512.D
 Acq: 3 Mar 2022 13:46

Tgt Ion: 45 Resp: 177
 Ion Ratio Lower Upper
 45 100
 46 0.0 18.2 72.8#





#15

Acetone

Concen: 0.132 ppbv

RT: 3.87 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

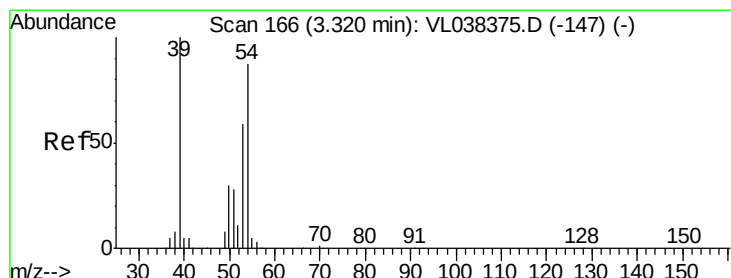
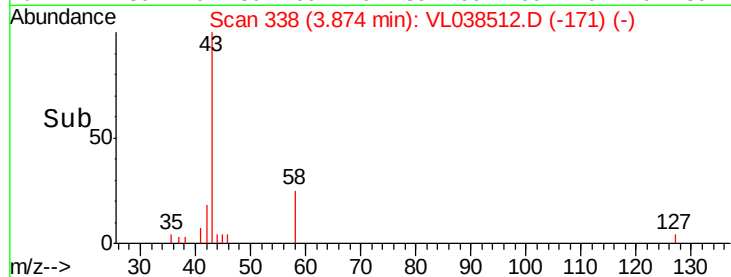
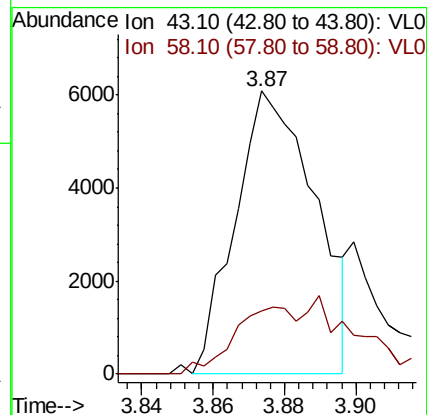
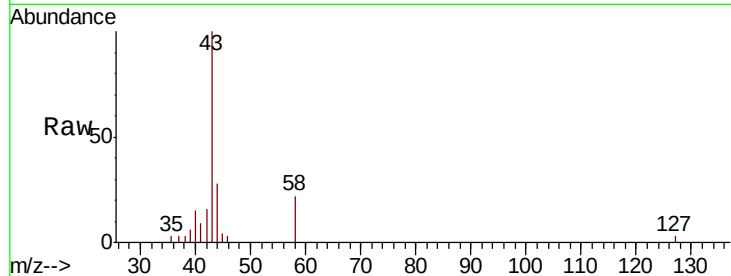
Acq: 3 Mar 2022 13:48

Tot Ion: 43 Resp: 9396

Ion Ratio Lower Upper

43 100

58 0.0 21.7 32.5#



#16

1,3-Butadiene

Concen: 0.044 ppbv

RT: 3.33 min Scan# 168

Delta R.T. 0.01 min

Lab File: VL038512.D

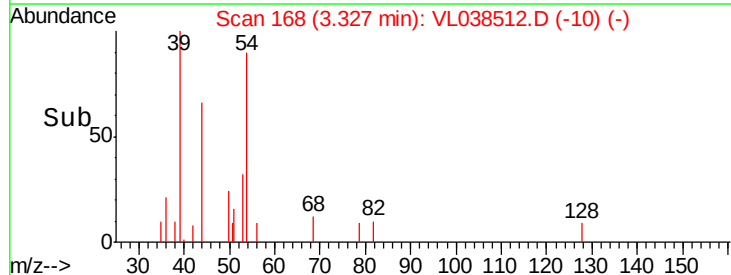
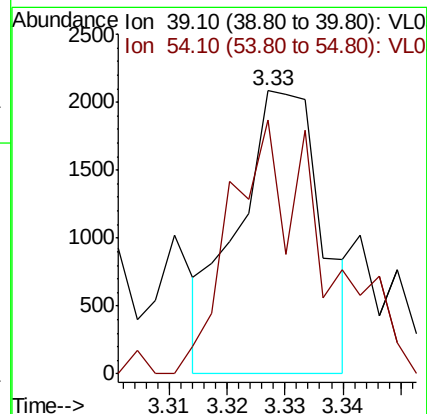
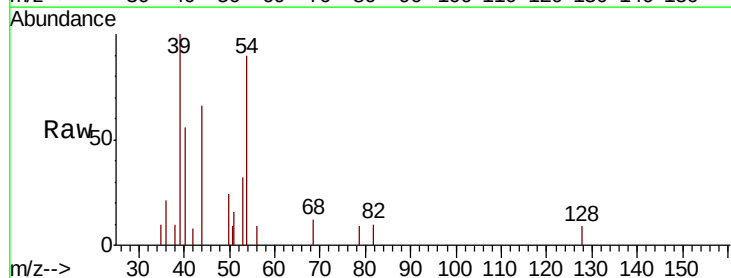
Acq: 3 Mar 2022 13:46

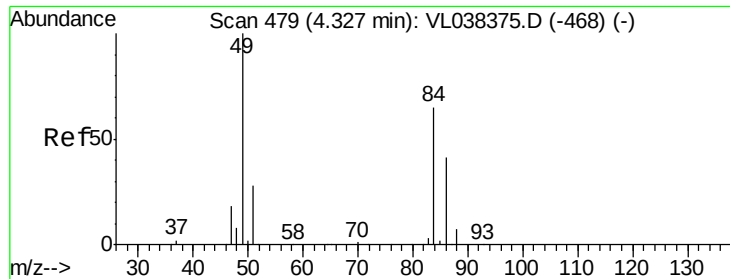
Tgt Ion: 39 Resp: 2090

Ion Ratio Lower Upper

39 100

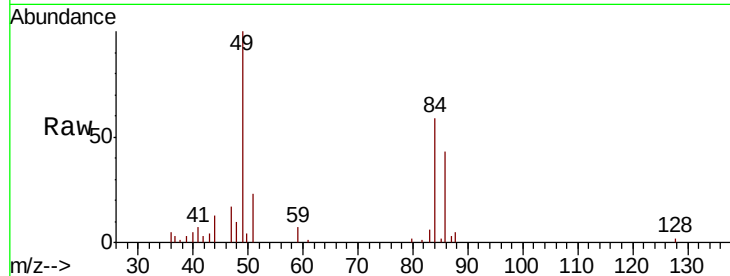
54 106.0 60.3 90.5#



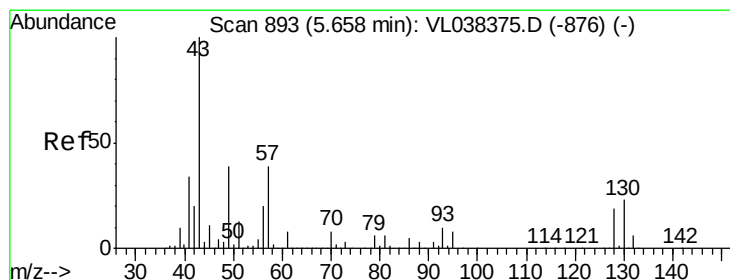
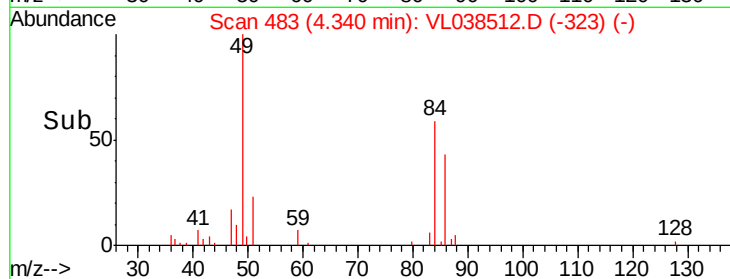
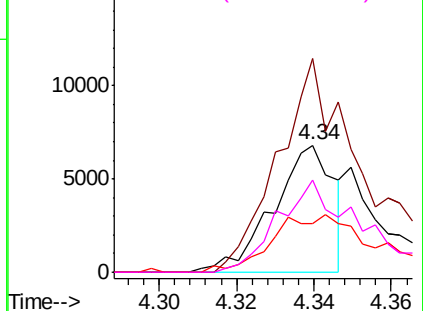


#20
Methylene Chloride
Concen: 0.211 ppbv
RT: 4.34 Instrument:
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 3 Mar 2022 13:40

Tot Ion:	84	Resp:	7432
Ion	Ratio	Lower	Upper
84	100		
49	174.5	122.4	183.6
51	38.5	33.3	49.9
86	73.0	50.7	76.1

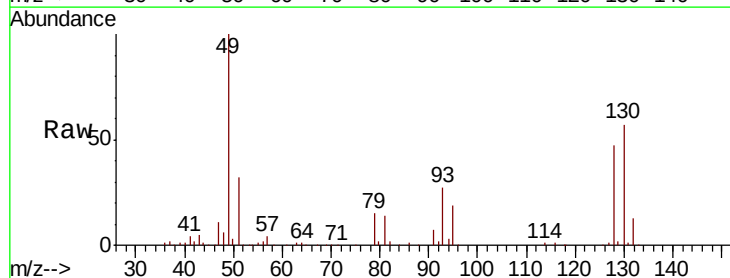


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

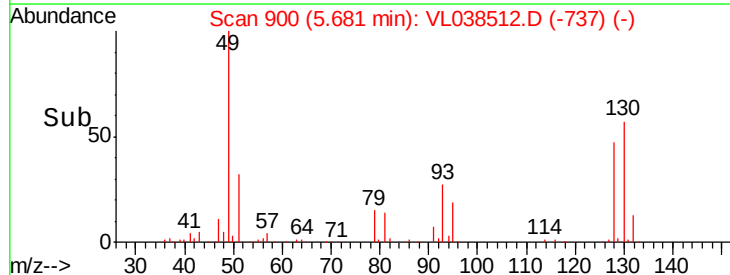
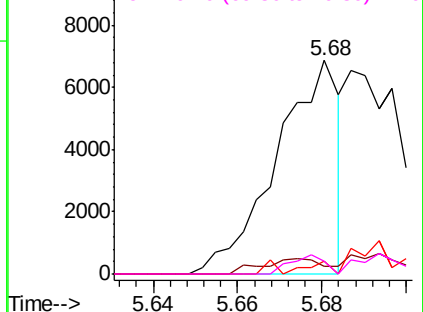


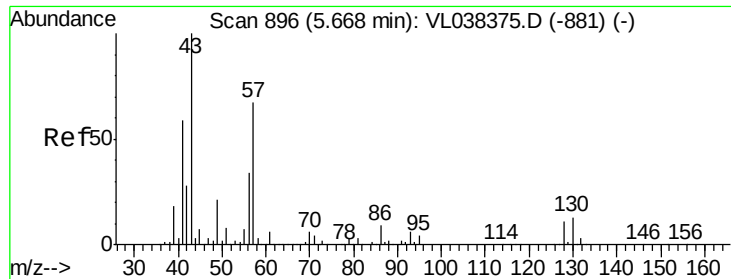
#25
Ethyl Acetate
Concen: 0.037 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.02 min
Lab File: VL038512.D
Acq: 3 Mar 2022 13:46

Tgt Ion:	43	Resp:	7103
Ion	Ratio	Lower	Upper
43	100		
45	0.0	7.8	11.6#
61	0.0	7.5	11.3#
70	0.0	5.4	8.0#



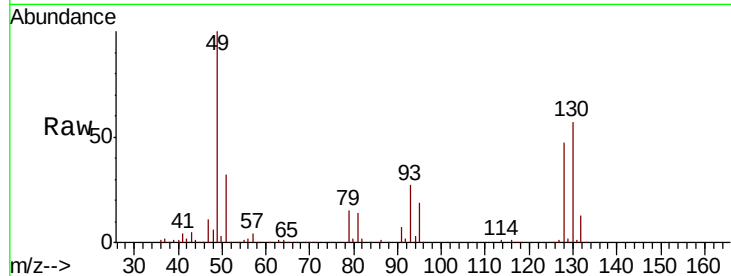
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0





#26
Hexane
Concen: 0.112 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 3 Mar 2022 13:40

Tot Ion	Ratio	Lower	Upper
57	100		
41	127.8	73.1	109.7#
43	169.3	181.0	271.4#
56	69.5	43.4	65.0#



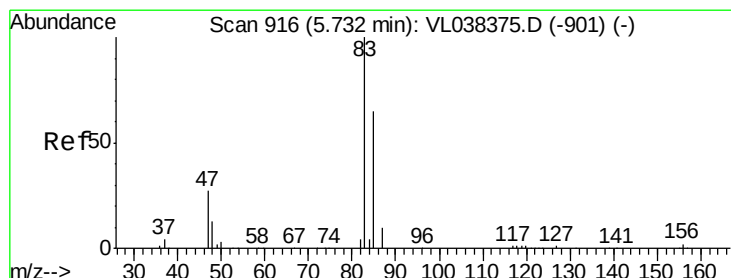
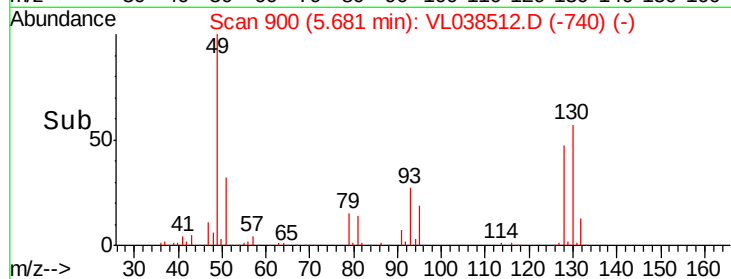
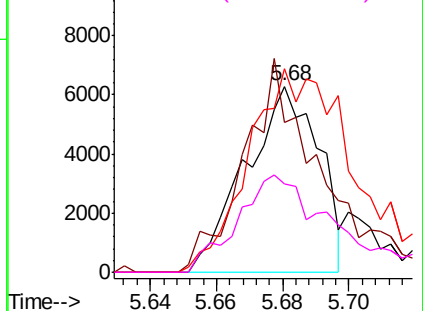
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

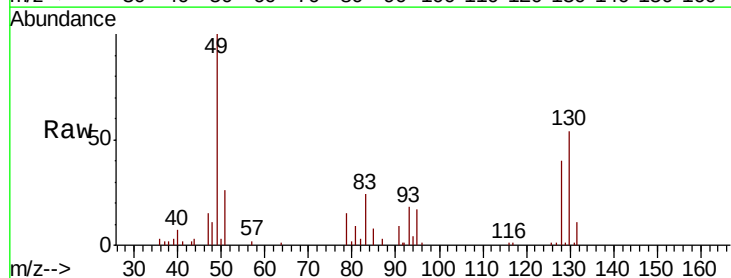
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#29
Chloroform
Concen: 0.031 ppbv
RT: 5.74 min Scan# 918
Delta R.T.: 0.01 min
Lab File: VL038512.D
Acq: 3 Mar 2022 13:46

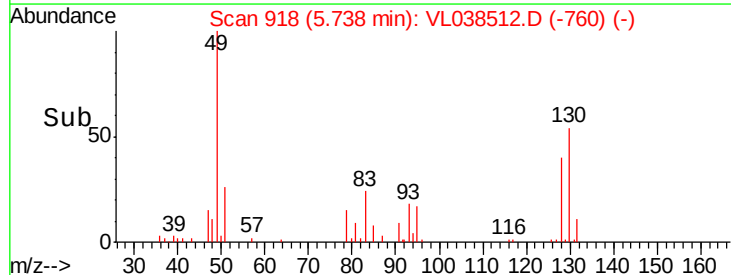
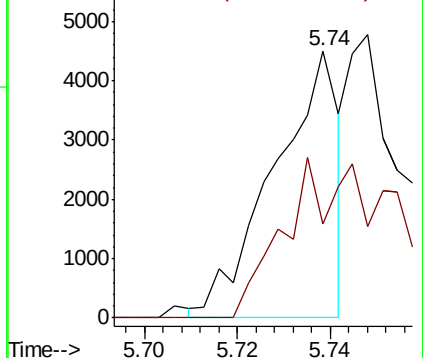
Tgt Ion	Ratio	Lower	Upper
83	100		
85	36.4	51.6	77.4#

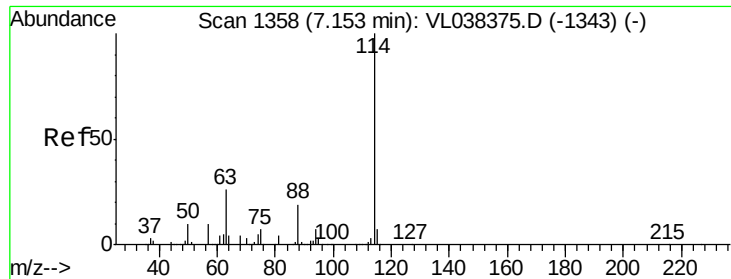


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

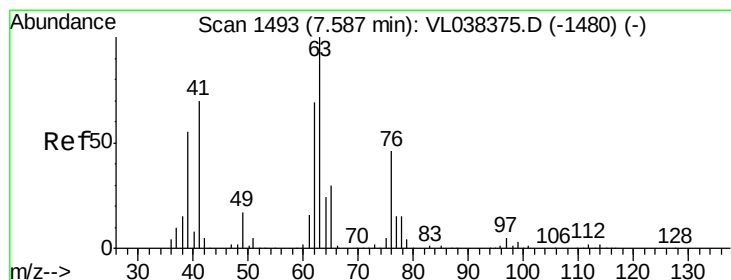
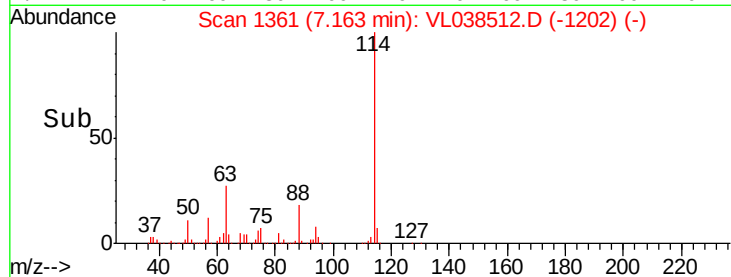
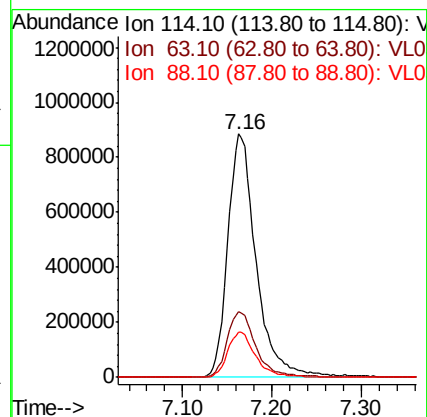
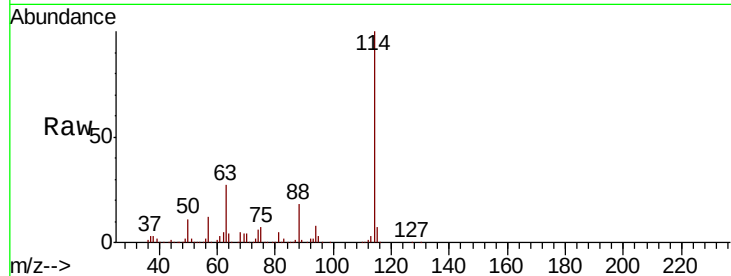




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Mar 2022 13:46

Tot Ion: 114 Resp: 1948659

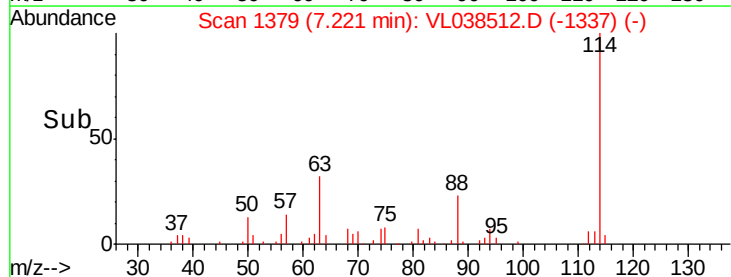
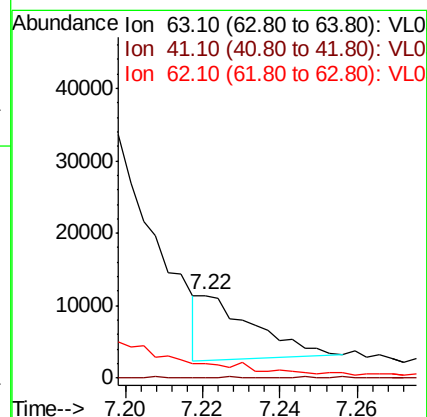
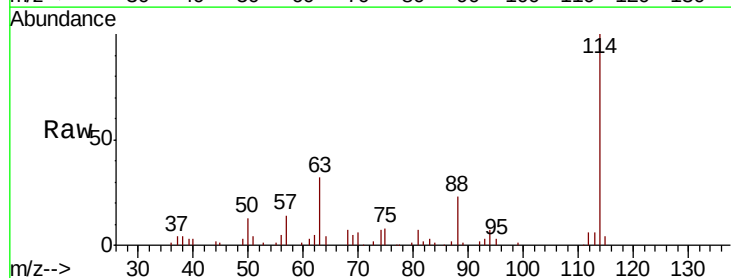
Ion	Ratio	Lower	Upper
114	100		
63	27.7	22.2	33.2
88	18.7	15.2	22.8

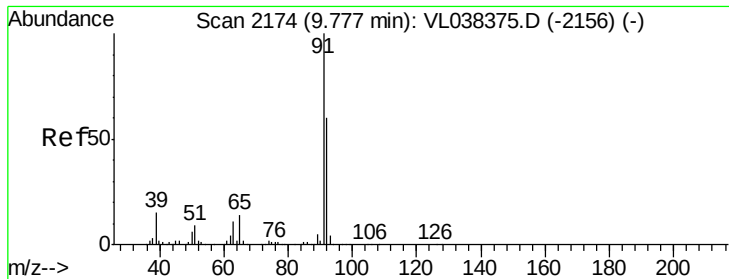


#39
 1,2-Dichloropropane
 Concen: 0.126 ppbv
 RT: 7.22 min Scan# 1379
 Delta R.T. -0.37 min
 Lab File: VL038512.D
 Acq: 3 Mar 2022 13:46

Tgt Ion: 63 Resp: 8628

Ion	Ratio	Lower	Upper
63	100		
41	0.0	56.1	84.1#
62	15.3	55.5	83.3#





#53

Toluene

Concen: 0.032 ppbv

RT: 9.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

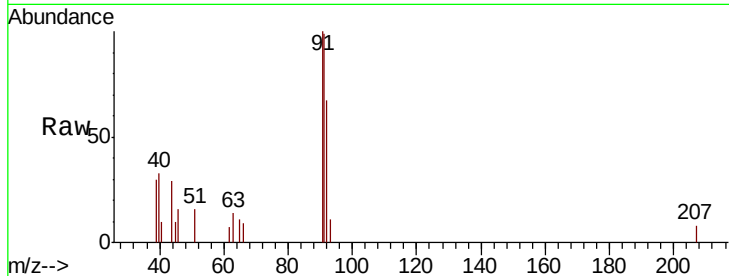
Acq: 3 Mar 2022 13:40

Tot Ion: 91 Resp: 6022

Ion Ratio Lower Upper

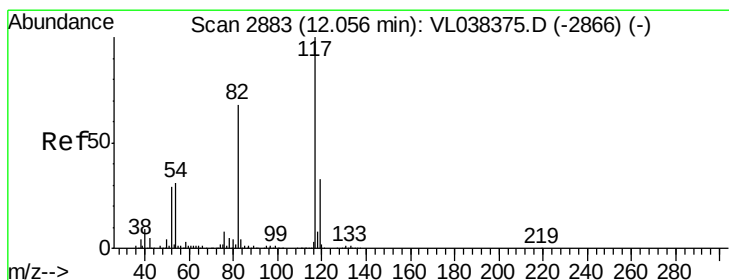
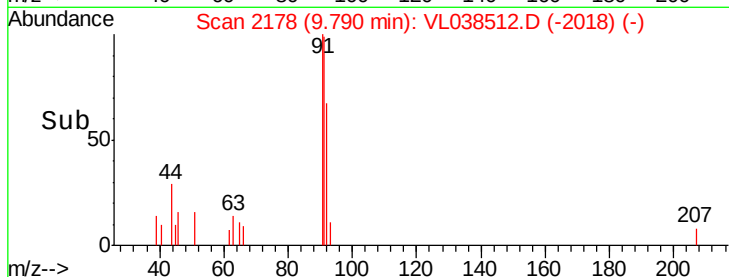
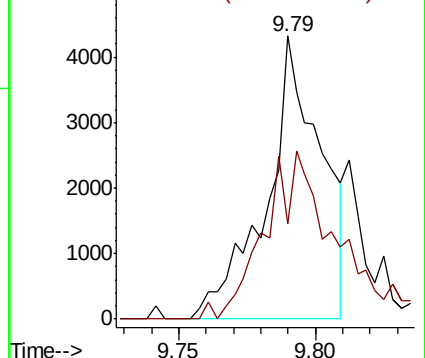
91 100

92 76.1 48.2 72.4#



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: 12.07 min Scan# 2888

Delta R.T. 0.02 min

Lab File: VL038512.D

Acq: 3 Mar 2022 13:46

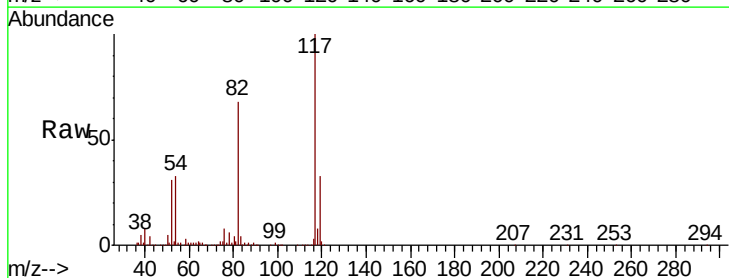
Tgt Ion: 117 Resp: 1641309

Ion Ratio Lower Upper

117 100

82 72.8 54.9 82.3

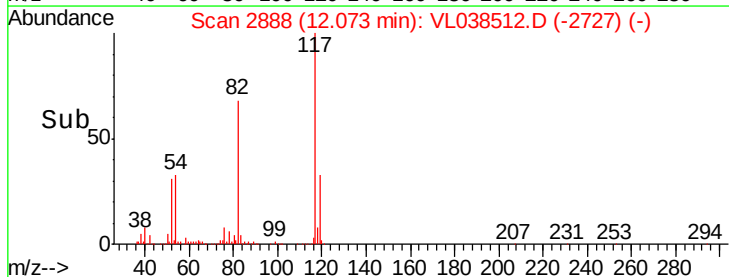
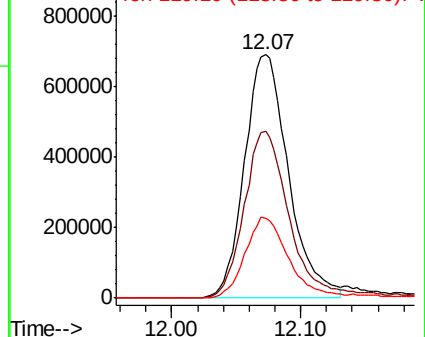
119 34.4 46.1 69.1#

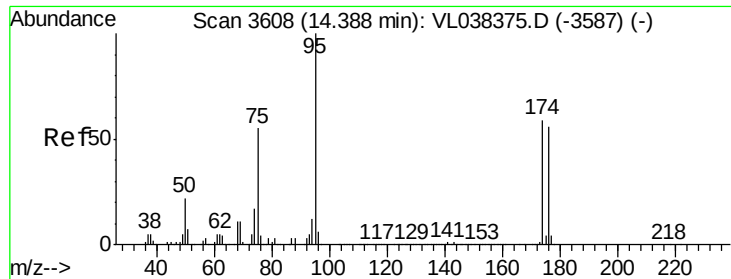


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 10.062 ppbv

RT: 14.40

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Mar 2022 13:40

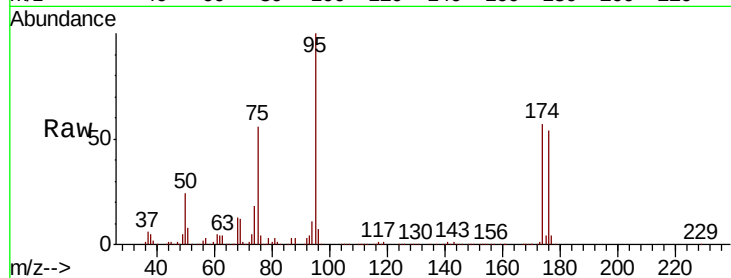
Tot Ion: 95 Resp: 1366438

Ion Ratio Lower Upper

95 100

174 60.5 49.0 73.4

175 4.5 3.6 5.4



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

