

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 :
 CAN 10727

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

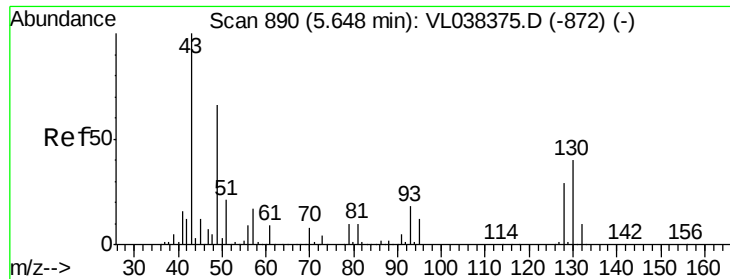
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	834345	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	1948659	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	1641309	10.00	ppbv	0.02

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	R.T.	QIon	Response	Conc	Units	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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: CAN 10727

Acq: 3 Mar 2022 13:40

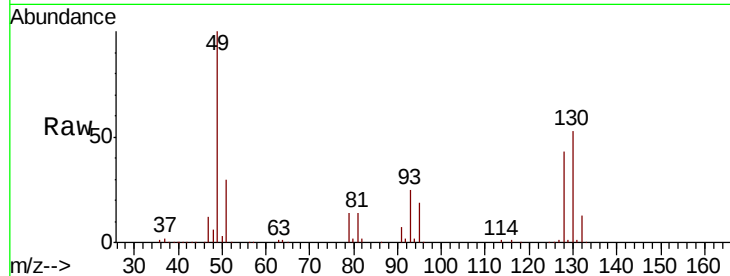
Tot Ion: 49 Resp: 834345

Ion Ratio Lower Upper

49 100

128 45.4 24.3 72.9

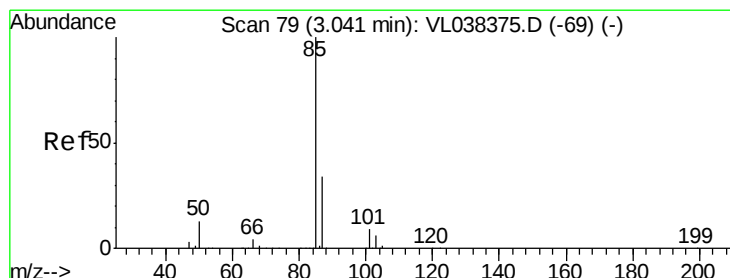
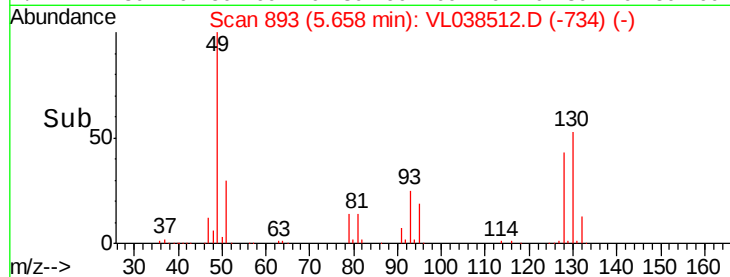
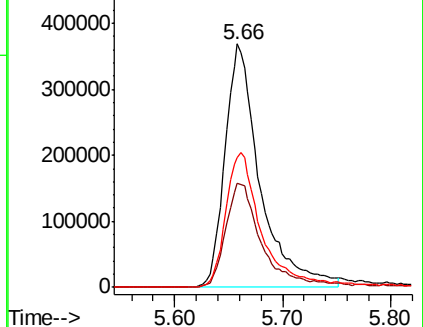
130 58.4 30.1 90.5



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

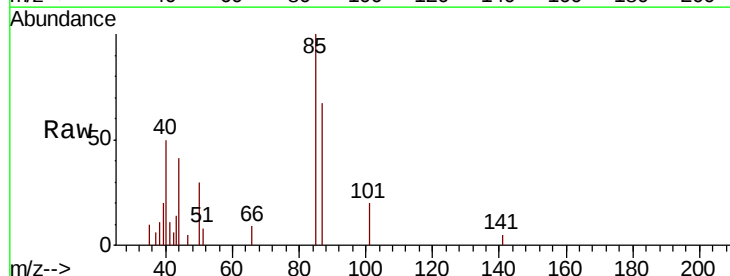
Acq: 3 Mar 2022 13:46

Tgt Ion: 85 Resp: 5757

Ion Ratio Lower Upper

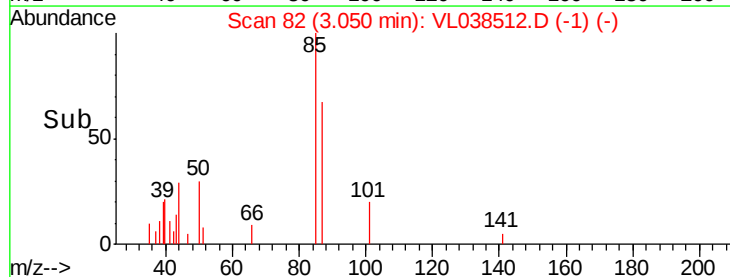
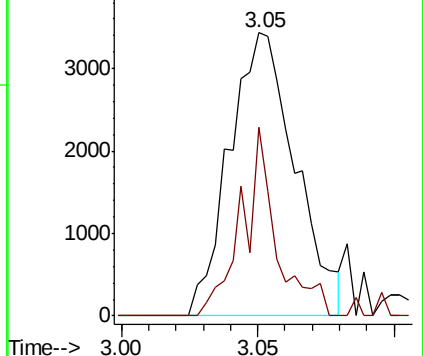
85 100

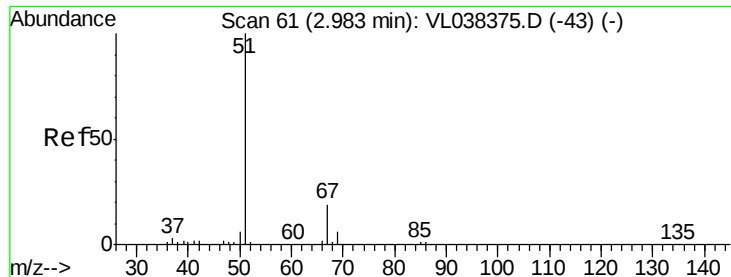
87 66.6 27.4 41.0#



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:

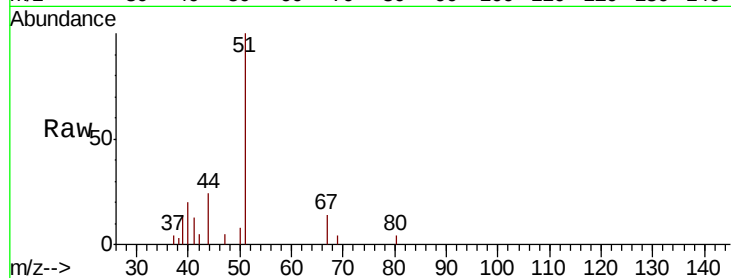
Acq: 3 Mar 2022 13:40

Tot Ion: 51 Resp: 9605

Ion Ratio Lower Upper

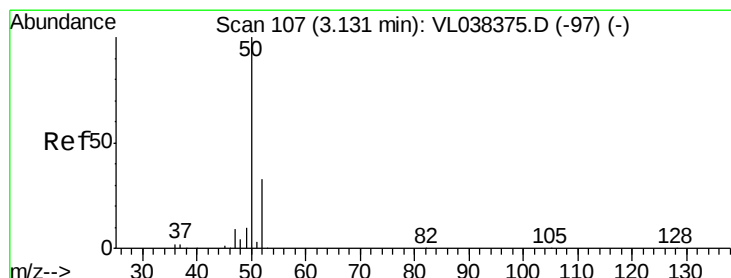
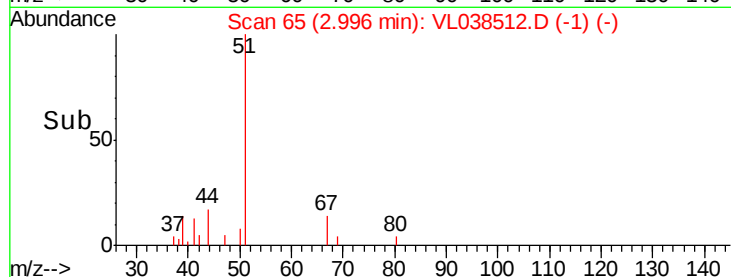
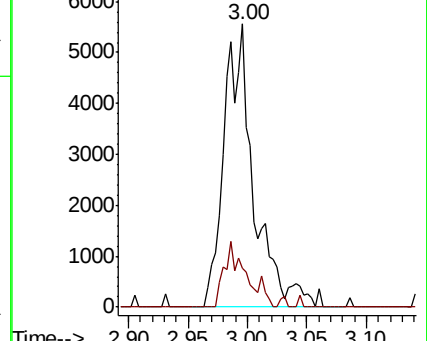
51 100

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

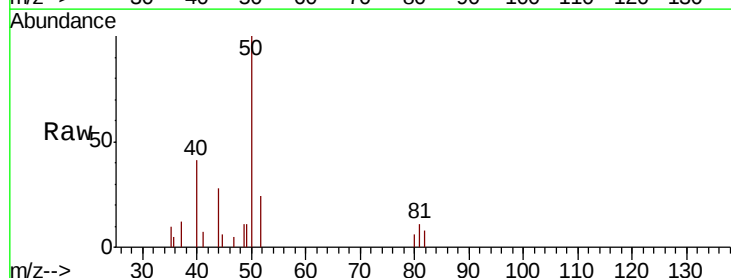
Acq: 3 Mar 2022 13:46

Tgt Ion: 50 Resp: 2937

Ion Ratio Lower Upper

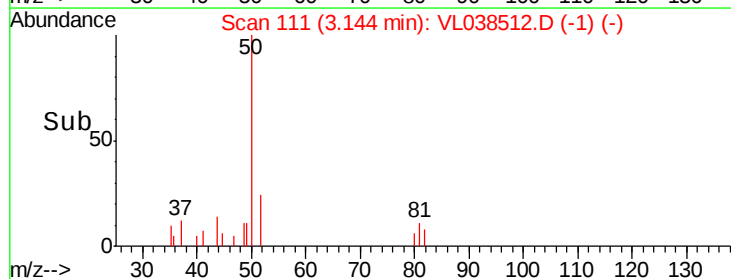
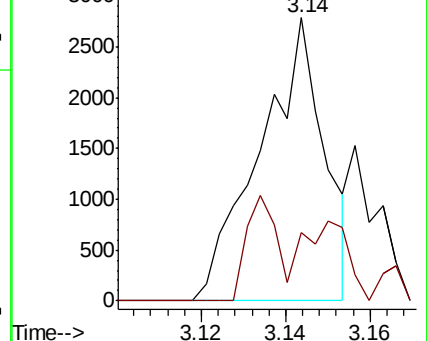
50 100

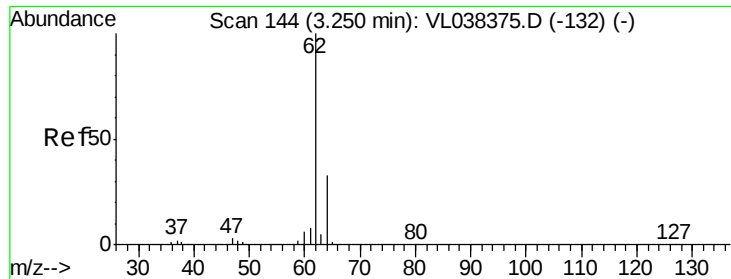
52 24.0 26.5 39.7#



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:

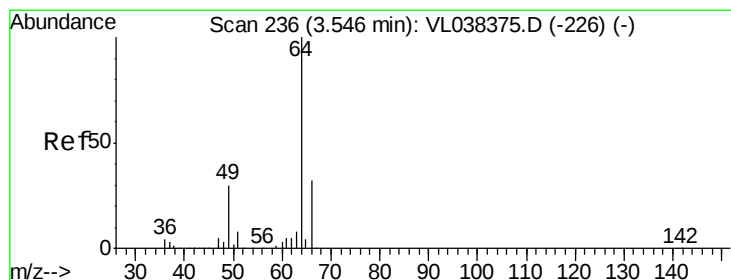
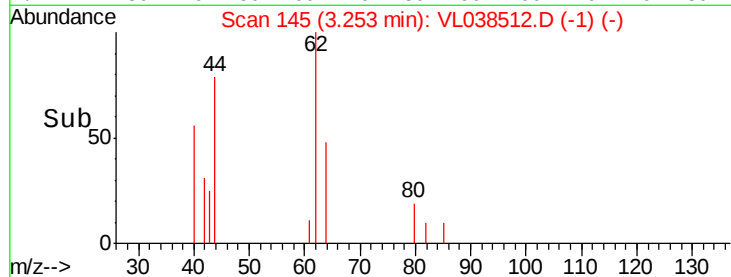
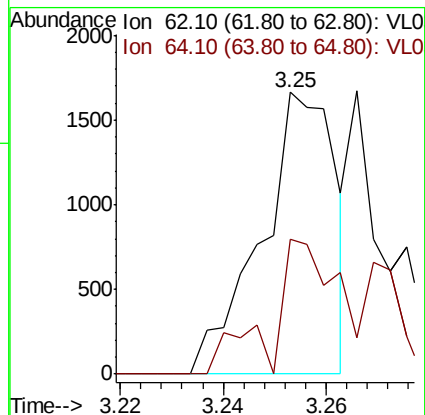
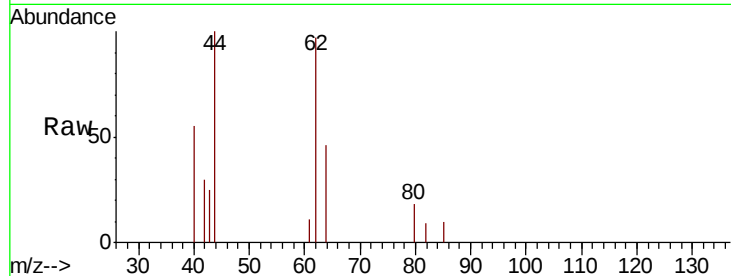
Acq: 3 Mar 2022 13:40

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

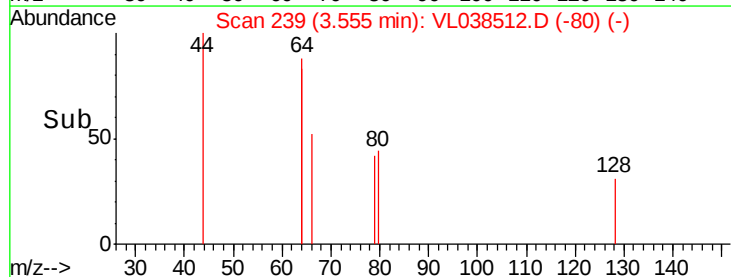
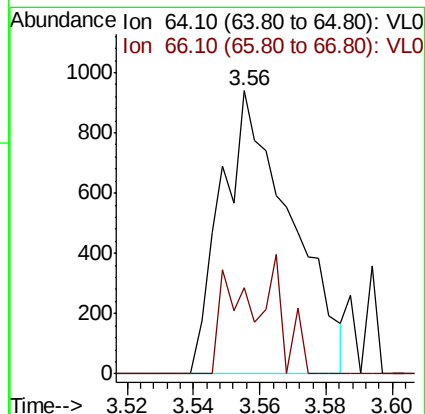
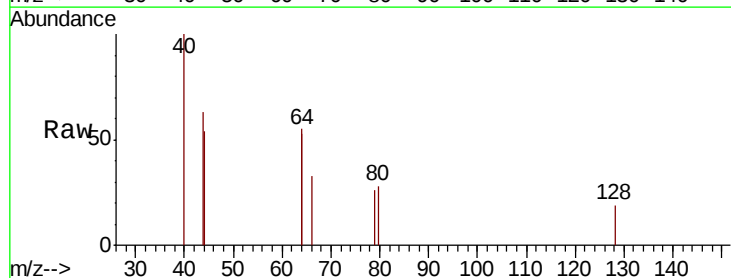
Acq: 3 Mar 2022 13:46

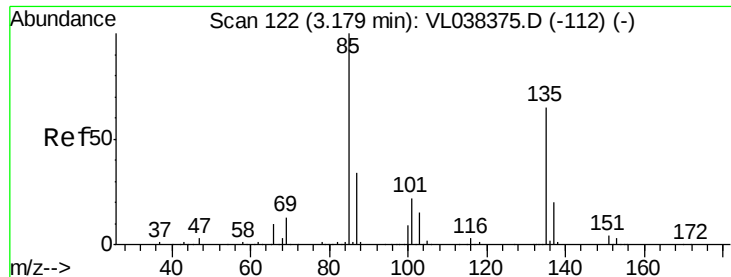
Tgt Ion: 64 Resp: 1371

Ion Ratio Lower Upper

64 100

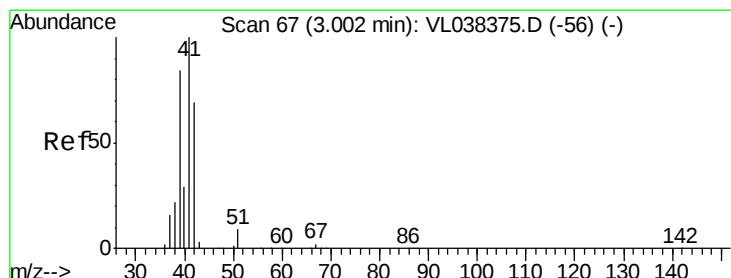
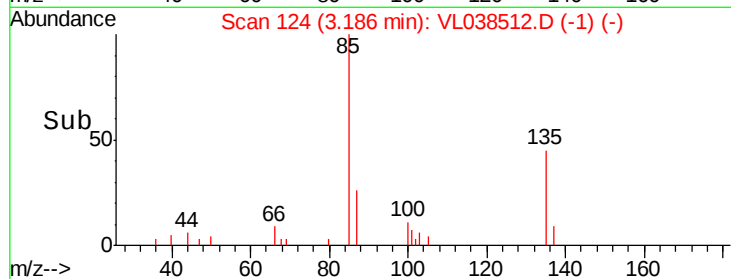
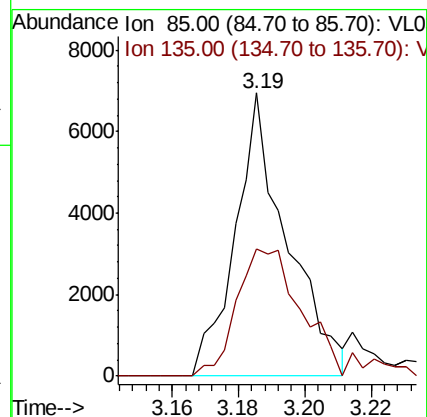
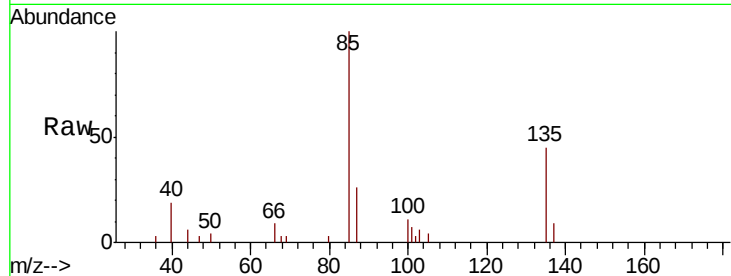
66 30.6 25.9 38.9





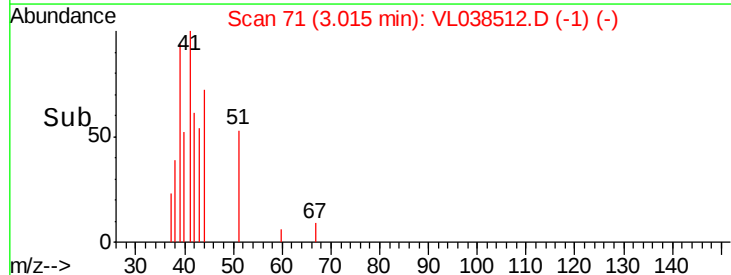
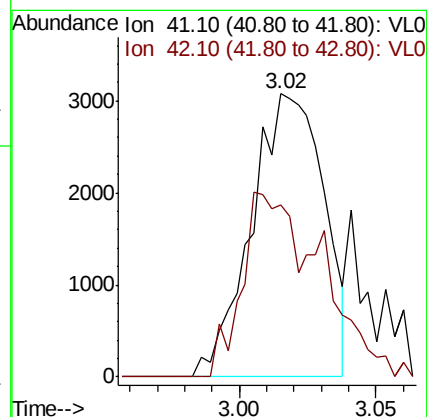
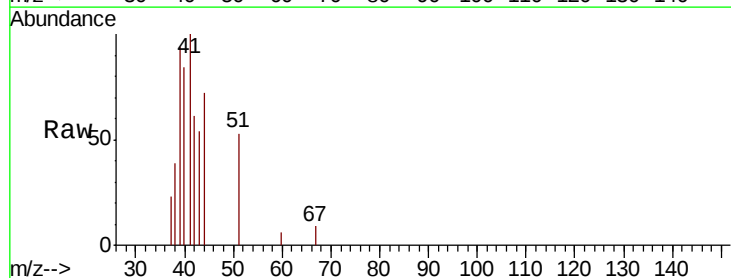
#8
Dichlorotetrafluoroethane
Concen: 0.061 ppbv
RT: 3.19
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Mar 2022 13:48

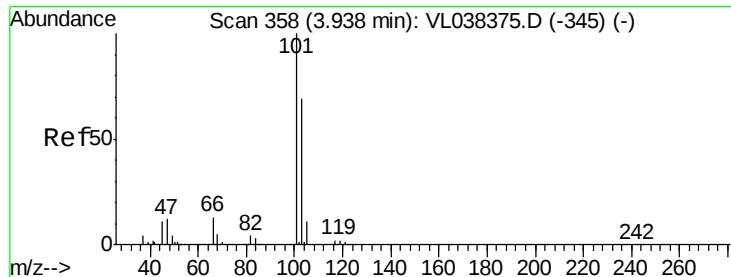
Tot Ion: 85 Resp: 7517
Ion Ratio Lower Upper
85 100
135 62.1 54.1 81.1



#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

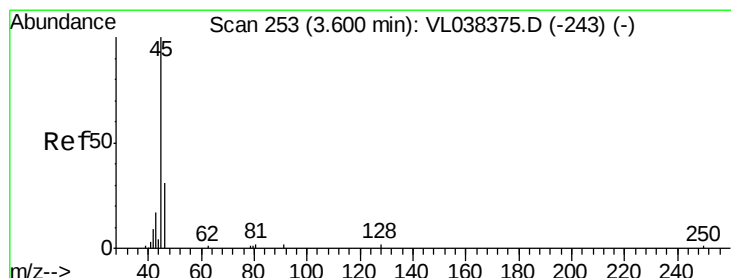
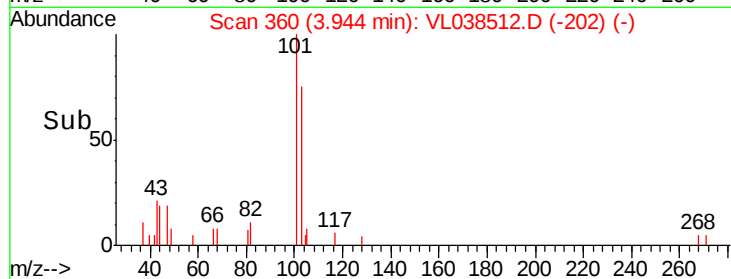
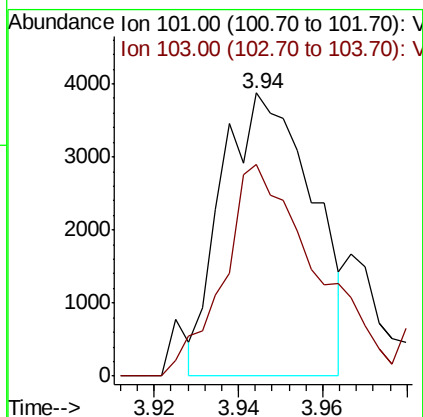
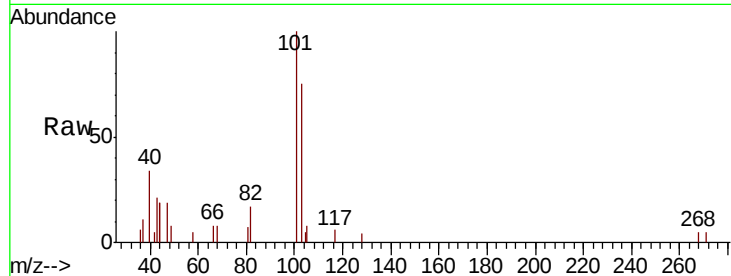
Tgt Ion: 41 Resp: 5687
Ion Ratio Lower Upper
41 100
42 72.0 54.6 82.0





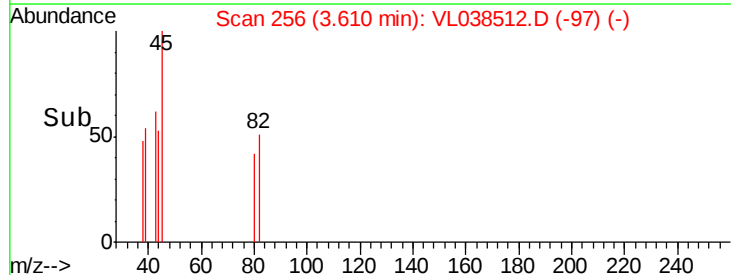
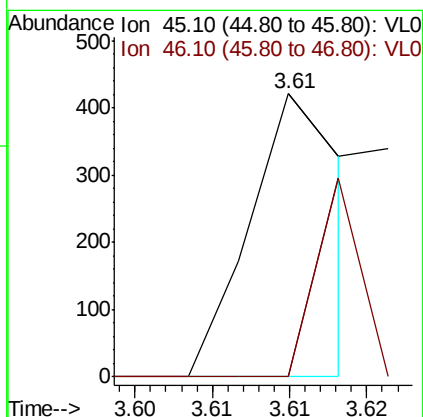
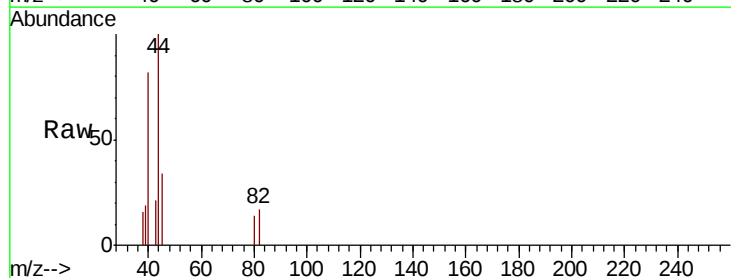
#11
 Trichlorofluoromethane
 Concen: 0.045 ppbv
 RT: 3.94 Instrument: MSVOA_1
 Delta R.T. ClientSampleId:
 Lab File: CAN 10727
 Acq: 3 Mar 2022 13:40

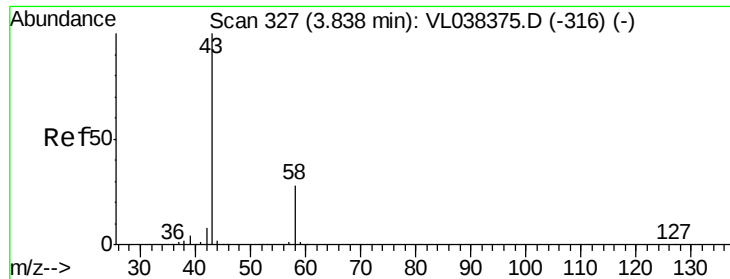
Tot Ion: 101 Resp: 5756
 Ion Ratio Lower Upper
 101 100
 103 68.6 55.0 82.4



#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:

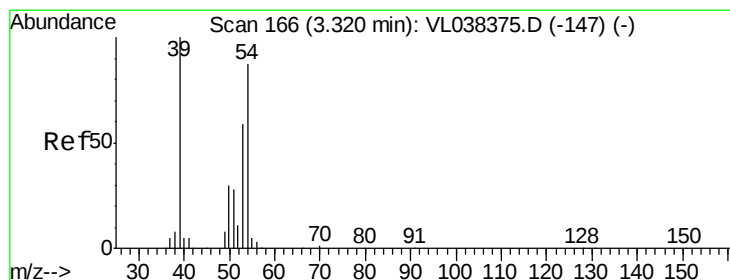
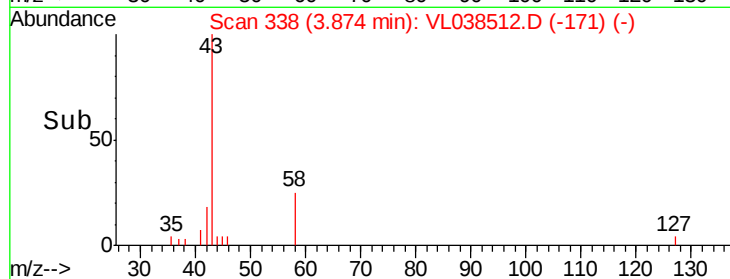
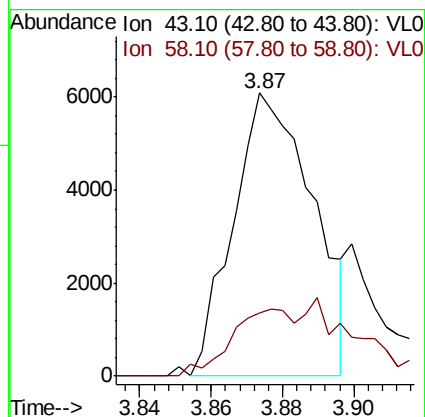
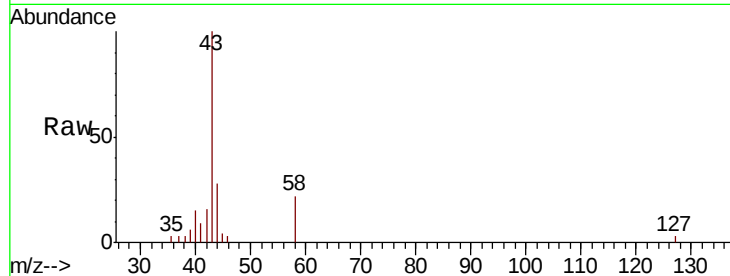
Acq: 3 Mar 2022 13:40 CAN 10727

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

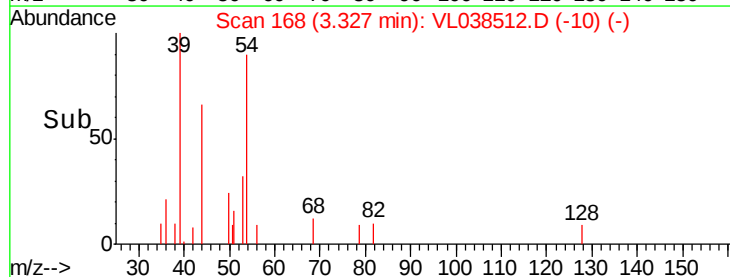
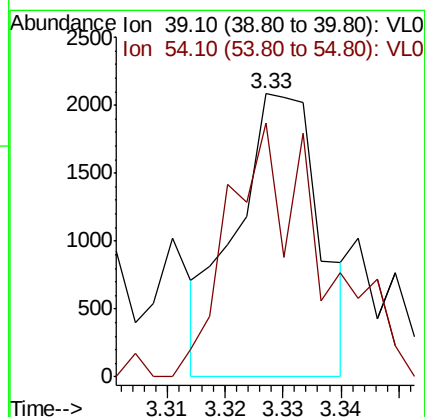
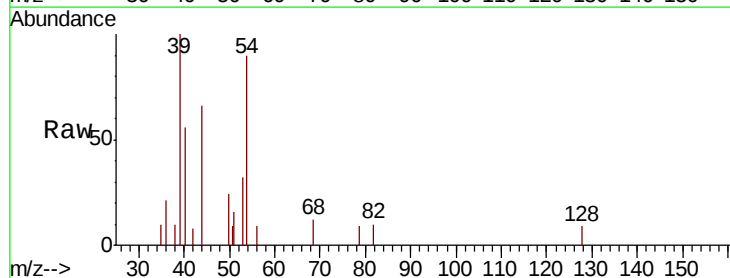
Acq: 3 Mar 2022 13:46

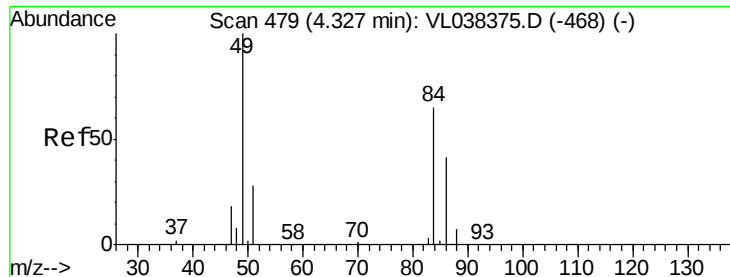
Tgt Ion: 39 Resp: 2090

Ion Ratio Lower Upper

39 100

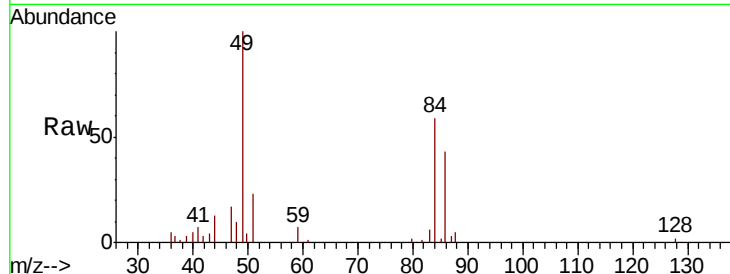
54 106.0 60.3 90.5#



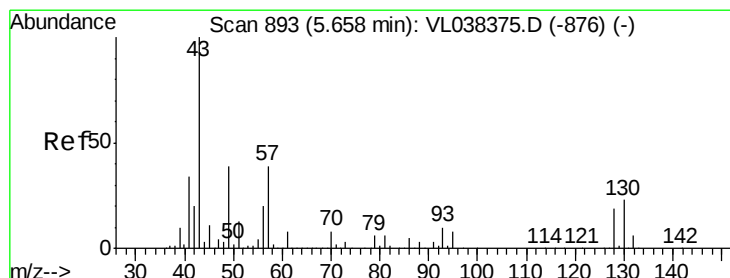
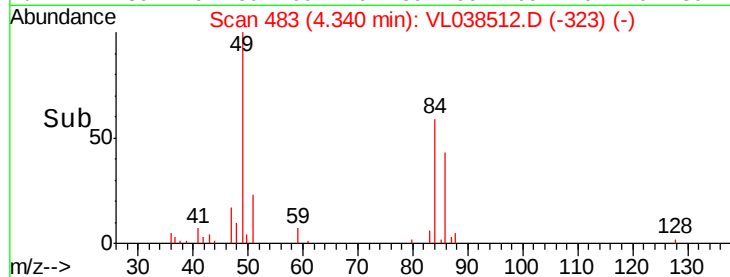
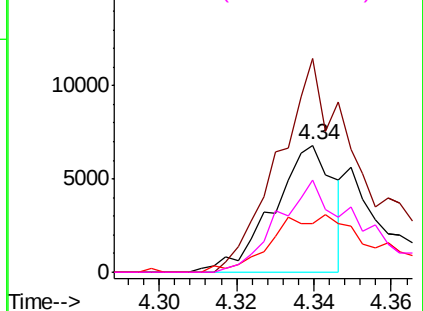


#20
Methylene Chloride
Concen: 0.211 ppbv
RT: 4.34
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
CAN 10727
Acq: 3 Mar 2022 13:40

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

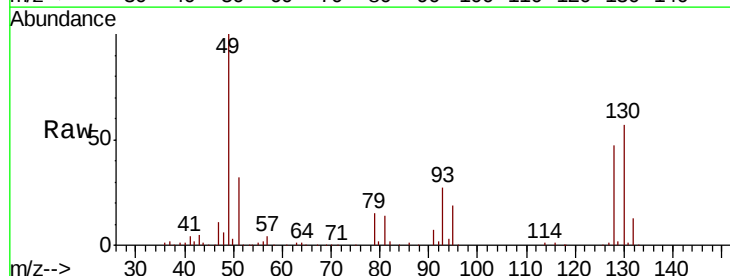


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

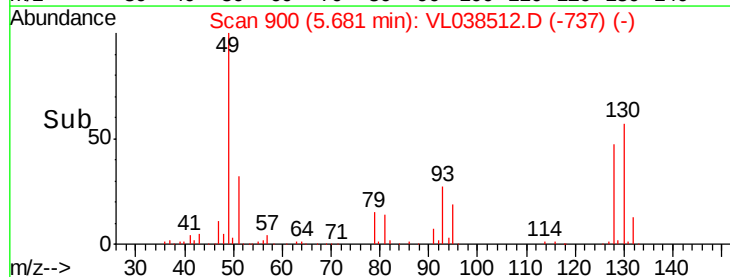
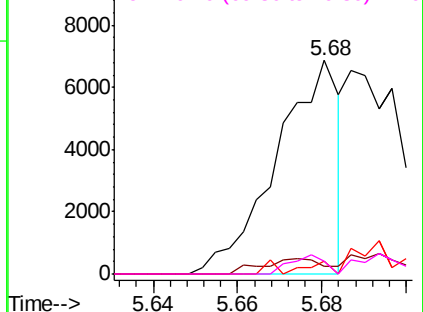


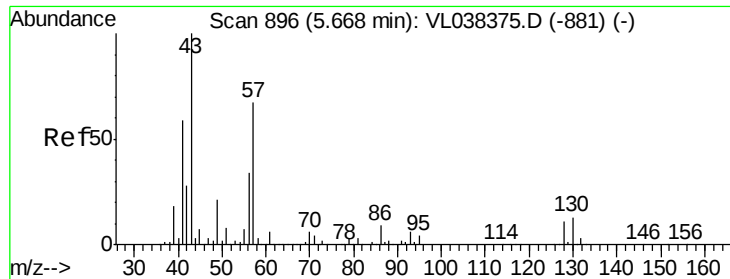
#25
Ethyl Acetate
Concen: 0.037 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.02 min
Lab File: VL038512.D
Acq: 3 Mar 2022 13:46

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#



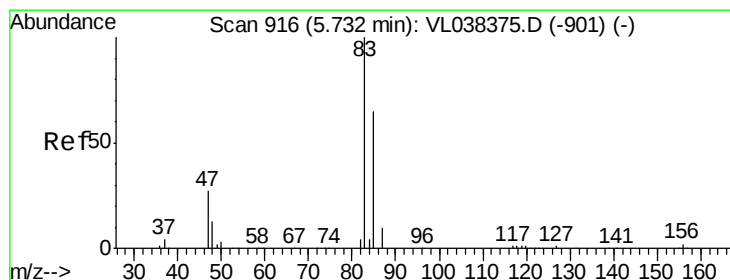
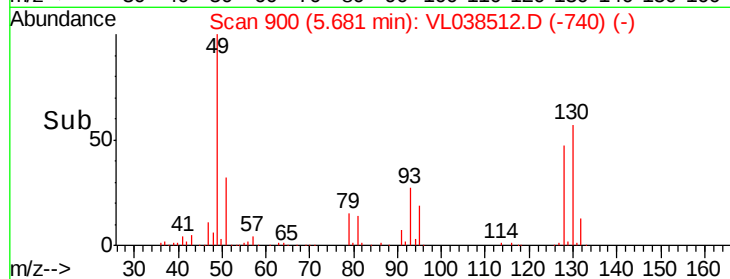
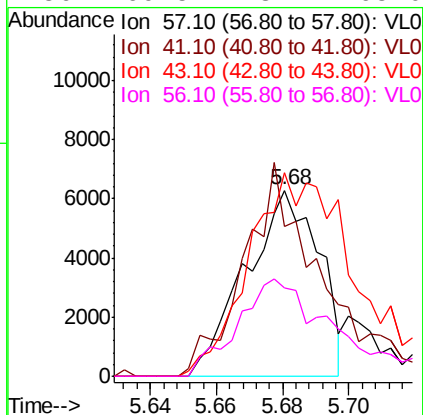
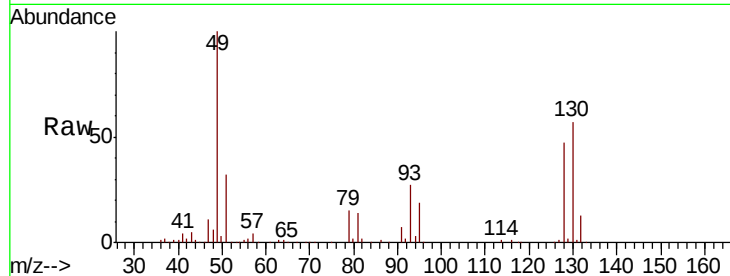
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0





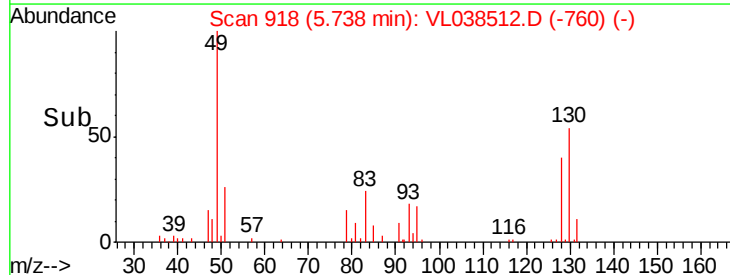
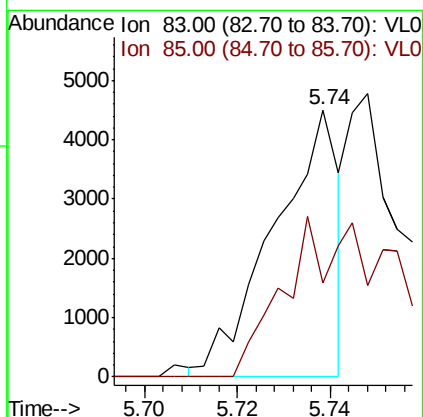
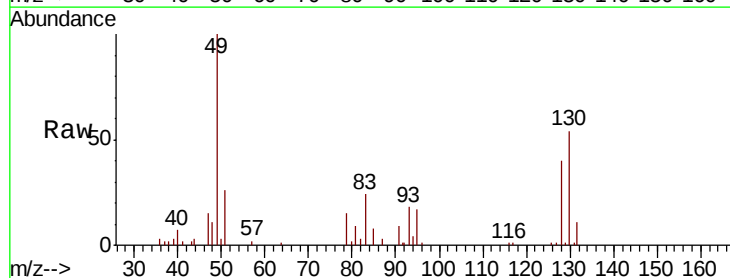
#26
Hexane
Concen: 0.112 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Mar 2022 13:40

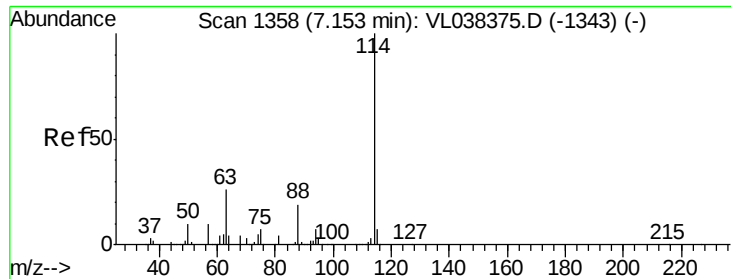
Tot Ion: 57 Resp: 9645
Ion Ratio Lower Upper
57 100
41 127.8 73.1 109.7#
43 169.3 181.0 271.4#
56 69.5 43.4 65.0#



#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

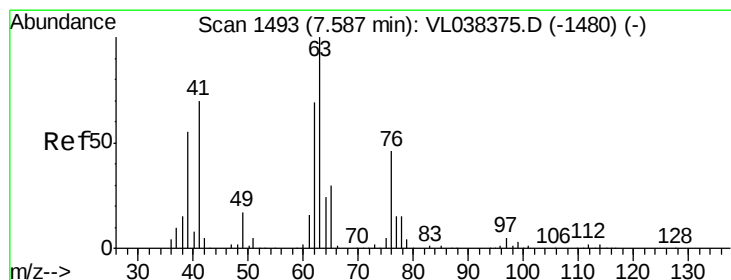
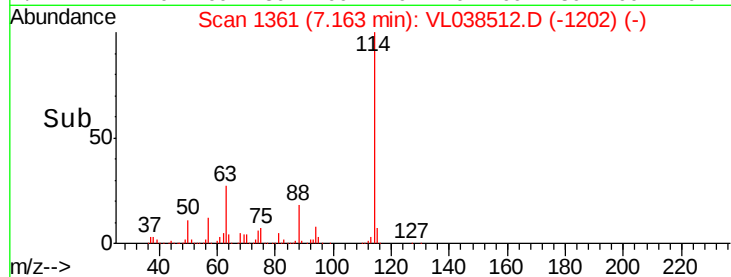
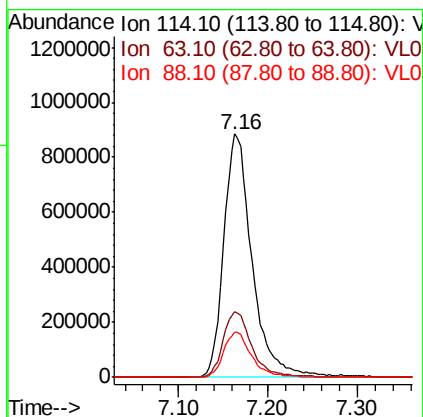
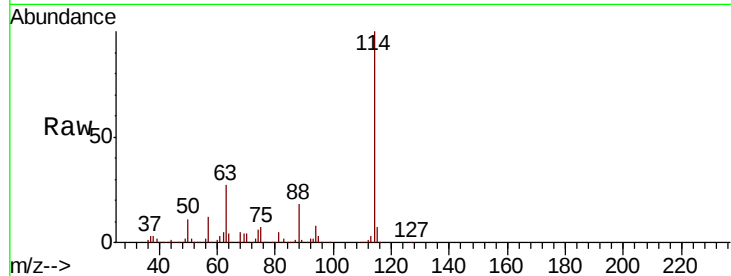
Tgt Ion: 83 Resp: 4336
Ion Ratio Lower Upper
83 100
85 36.4 51.6 77.4#





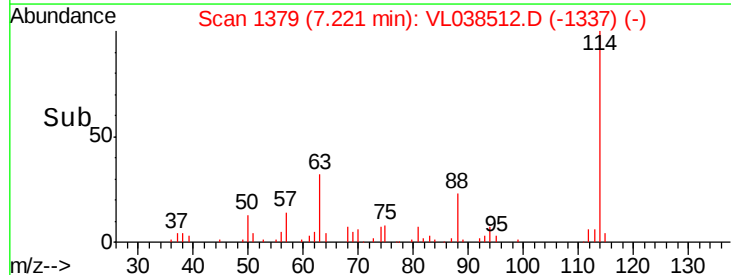
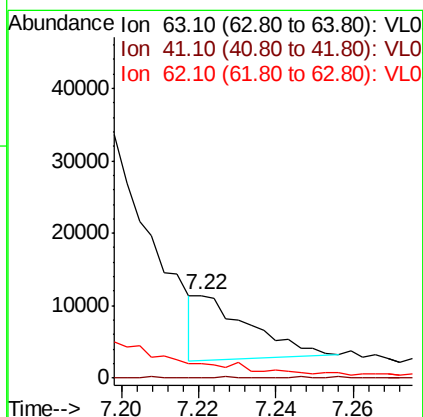
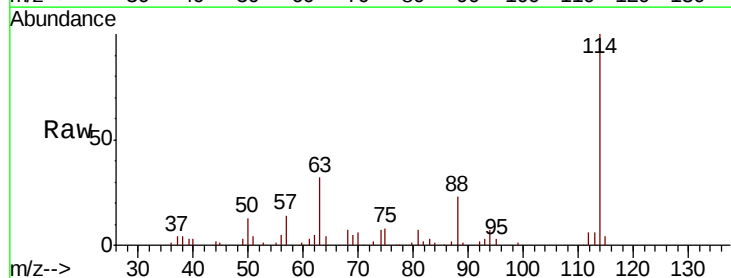
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Mar 2022 13:40

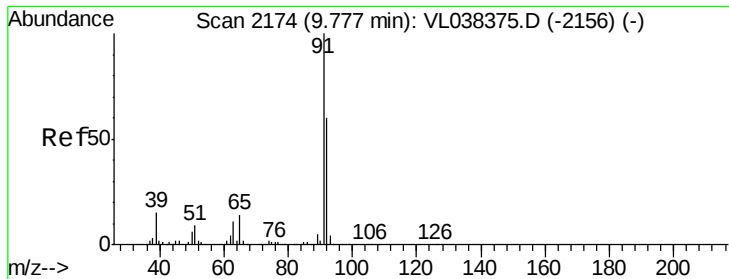
Tot Ion: 114 Resp: 1948659
 Ion Ratio Lower Upper
 114 100
 63 27.7 22.2 33.2
 88 18.7 15.2 22.8



#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:

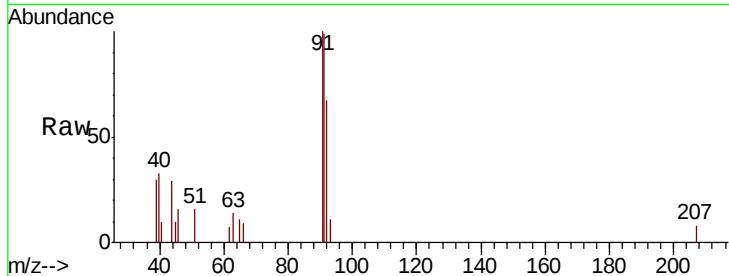
Acq: 3 Mar 2022 13:40 CAN 10727

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

5000

4000

3000

2000

1000

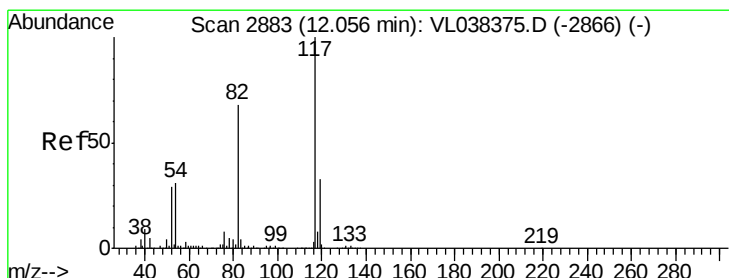
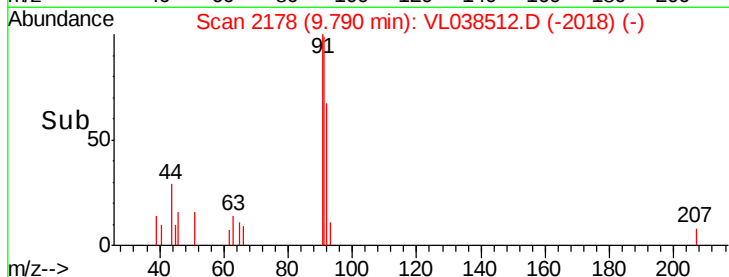
0

9.75

9.80

9.79

Time-->



#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

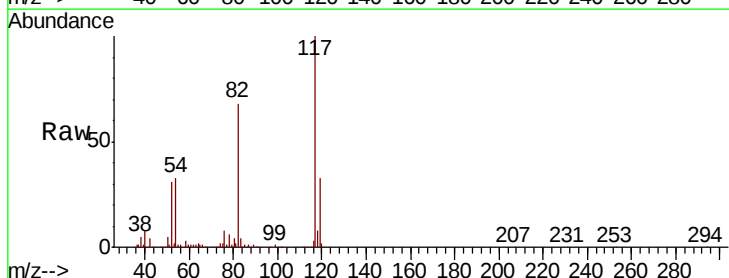
Tgt Ion: 117 Resp: 1641309

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

800000

600000

400000

200000

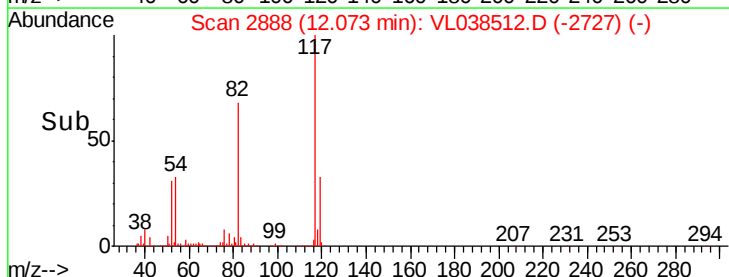
0

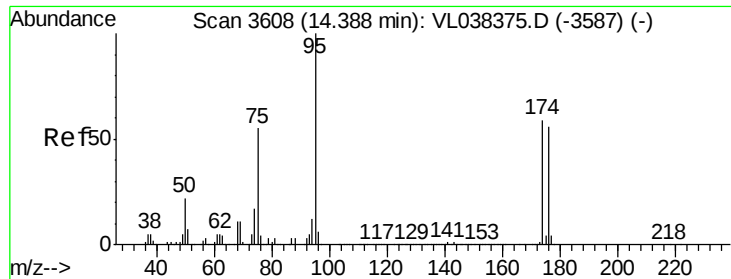
12.00

12.10

12.07

Time-->





#68

1-Bromo-4-Fluorobenzene

Concen: 10.062 ppbv

RT: 14.40 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Mar 2022 15:40 CAN 10727

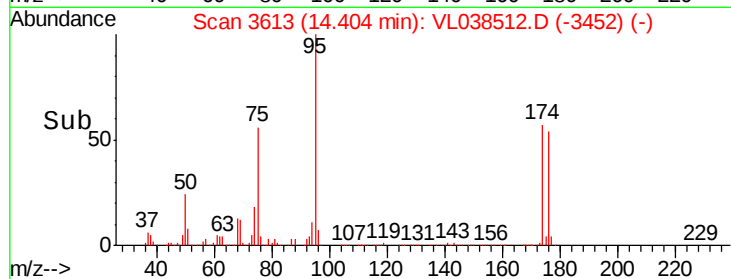
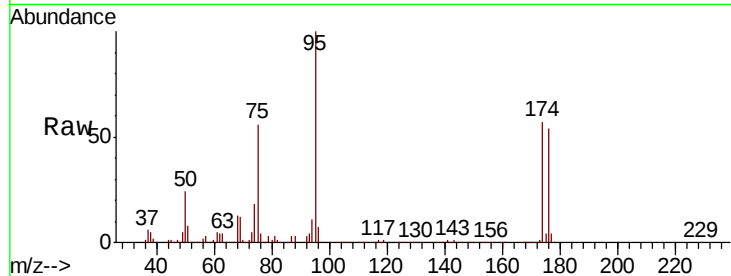
Tot Ion: 95 Resp: 1366438

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

