

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL022222\
 Data File : VL038400.D
 Acq On : 22 Feb 2022 22:48
 Operator : SY/AP
 Sample : N1607-07DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MP-8DL

Quant Time: Mar 14 08:04:07 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	5.67	49	916065	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	2238120	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.08	117	2018864	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1628412	9.75	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.50%

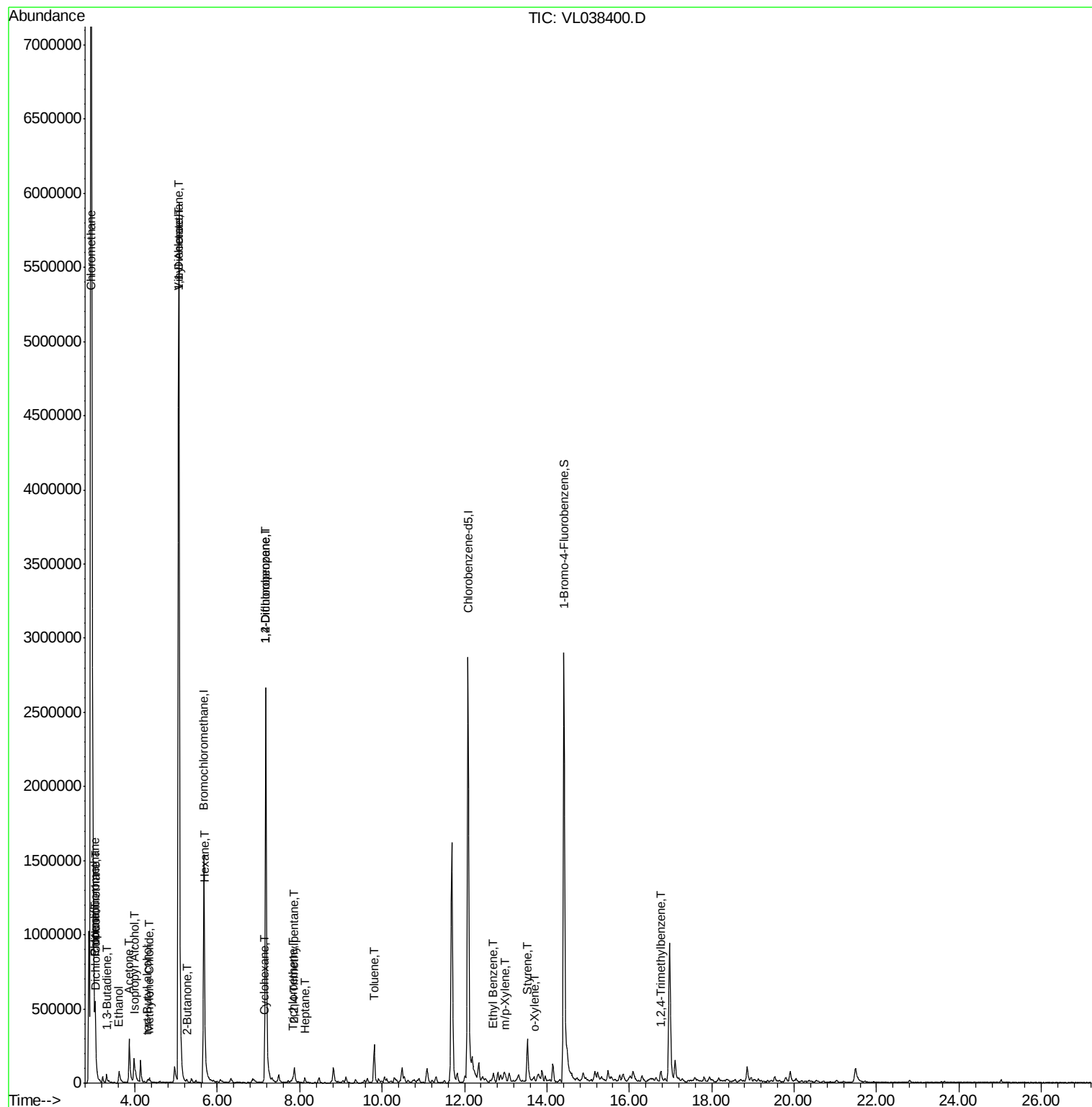
Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.06	85	4495	0.03	ppbv	91
3) Chlorodifluoromethane	3.04	51	225265	1.39	ppbv #	60
4) Chloromethane	2.93	50	750108	13.35	ppbv #	48
9) Propene	3.03	41	9270	0.17	ppbv	85
10) Heptane	8.12	43	8379	0.06	ppbv #	43
13) Ethanol	3.62	45	108554	20.37	ppbv	90
15) Acetone	3.86	43	411689	5.28	ppbv	99
16) 1,3-Butadiene	3.31	39	19745	0.38	ppbv #	17
17) tert-Butyl alcohol	4.29	59	2841	0.04	ppbv #	72
19) Isopropyl Alcohol	3.98	45	231607	5.13	ppbv #	97
20) Methylene Chloride	4.36	84	4438	0.11	ppbv	95
23) Vinyl Acetate	5.06	43	178422	1.73	ppbv #	1
24) 1,1-Dichloroethane	5.06	63	18541	0.20	ppbv #	89
26) Hexane	5.69	57	9285	0.10	ppbv #	1
30) Cyclohexane	7.14	84	3364	0.04	ppbv #	1
34) 2-Butanone	5.26	43	11920	0.17	ppbv #	45
38) Trichloroethene	7.84	130	5609	0.08	ppbv #	74
39) 1,2-Dichloropropane	7.18	63	586238	7.47	ppbv #	26
44) 2,2,4-Trimethylpentane	7.87	57	74726	0.22	ppbv #	79
53) Toluene	9.81	91	202987	0.95	ppbv	100
58) Ethyl Benzene	12.71	91	17261	0.06	ppbv	99
59) m/p-Xylene	12.99	91	7662	0.03	ppbv #	33
60) o-Xylene	13.69	91	23205	0.10	ppbv	99
61) Styrene	13.53	104	163835	1.58	ppbv	97
74) 1,2,4-Trimethylbenzene	16.77	105	16772	0.07	ppbv #	69

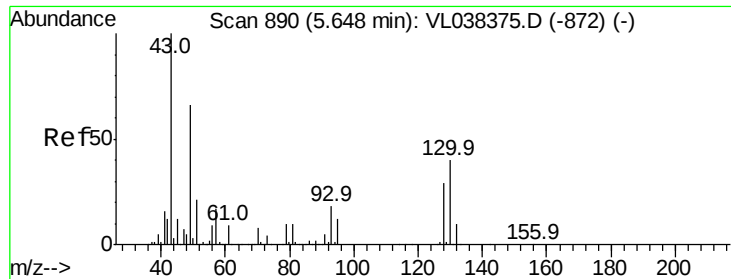
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 22 Feb 2022 22:48 MP-8DL

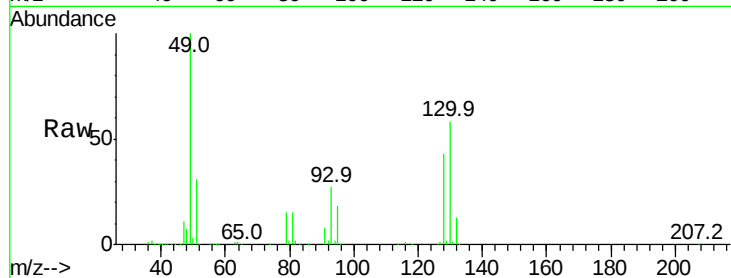
Tgt Ion: 49 Resp: 916065

Ion Ratio Lower Upper

49 100

128 47.3 24.3 72.9

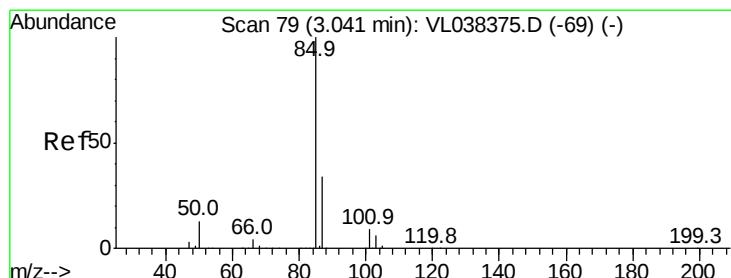
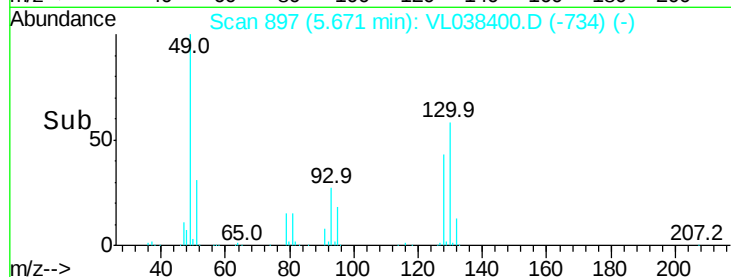
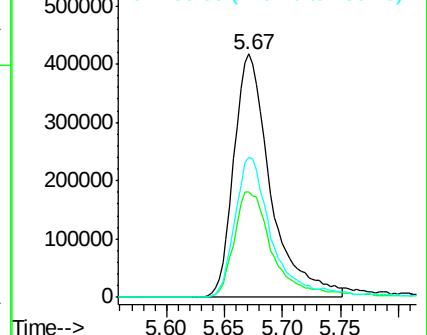
130 59.7 30.1 90.5



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



#2

Dichlorodifluoromethane

Concen: 0.03 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.02 min

Lab File: VL038400.D

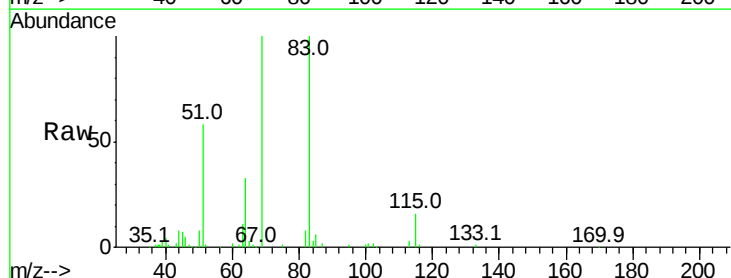
Acq: 22 Feb 2022 22:48

Tgt Ion: 85 Resp: 4495

Ion Ratio Lower Upper

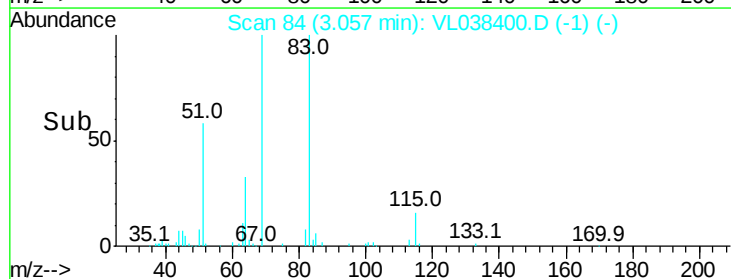
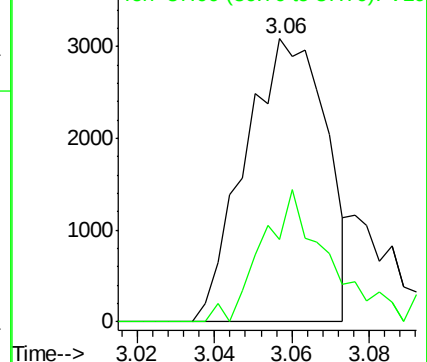
85 100

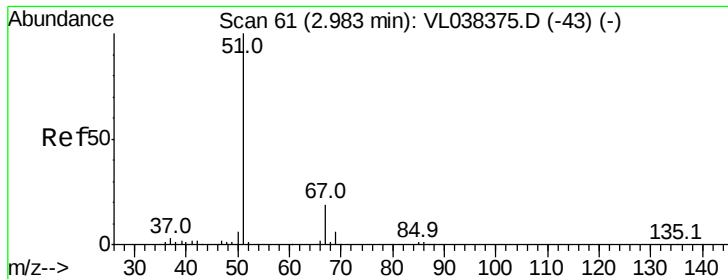
87 29.1 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.39 ppbv

RT: 3.04 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: MP-8DL

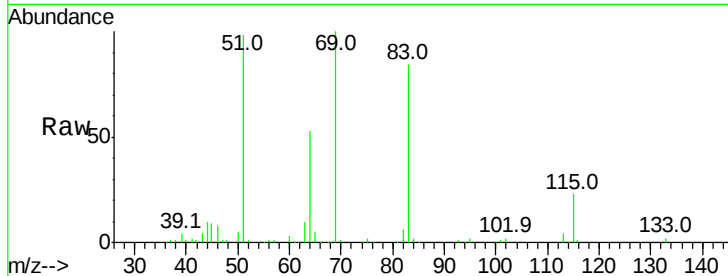
Acq: 22 Feb 2022 22:48

Tgt Ion: 51 Resp: 225265

Ion Ratio Lower Upper

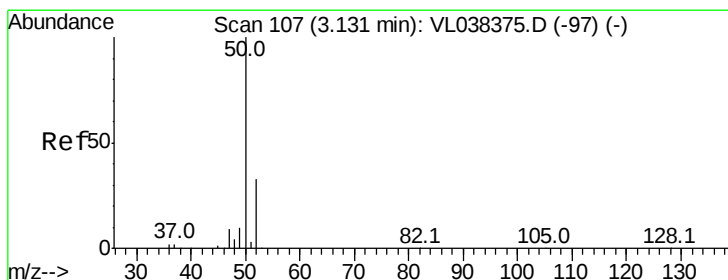
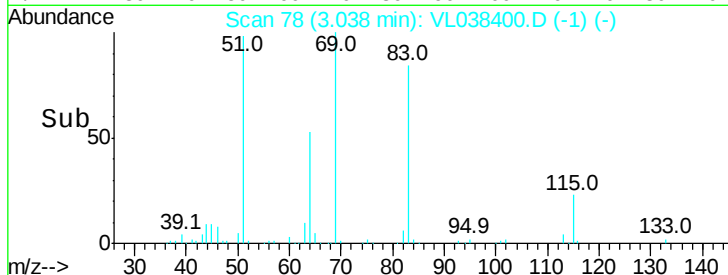
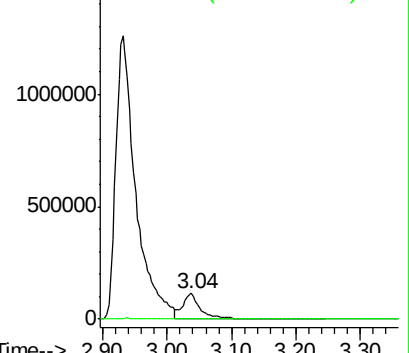
51 100

67 0.4 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: 13.35 ppbv

RT: 2.93 min Scan# 45

Delta R.T. -0.20 min

Lab File: VL038400.D

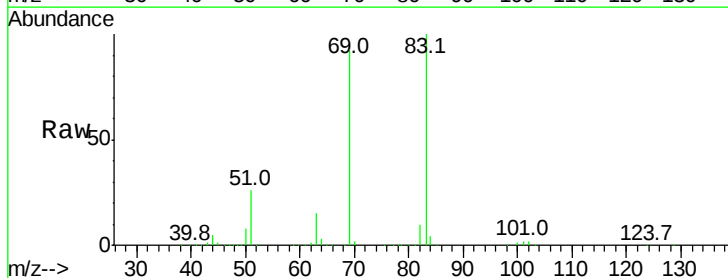
Acq: 22 Feb 2022 22:48

Tgt Ion: 50 Resp: 750108

Ion Ratio Lower Upper

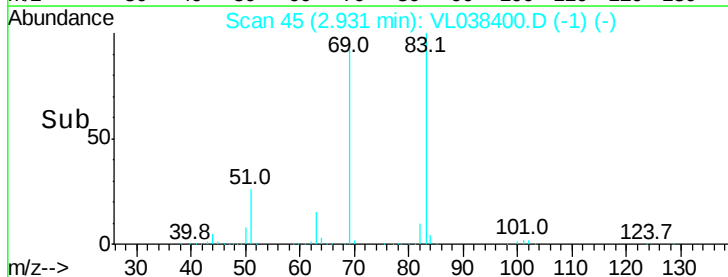
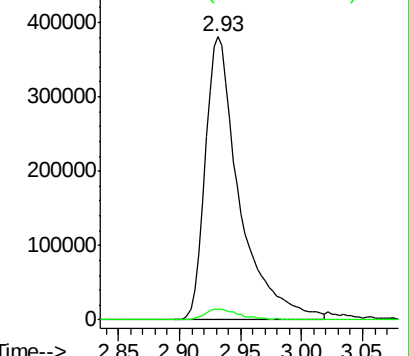
50 100

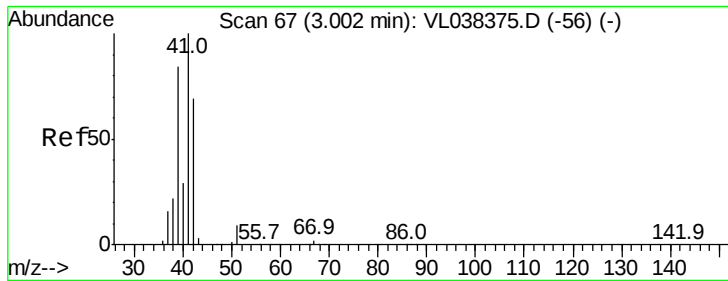
52 3.7 26.5 39.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.17 ppbv

RT: 3.03 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: MP-8DL

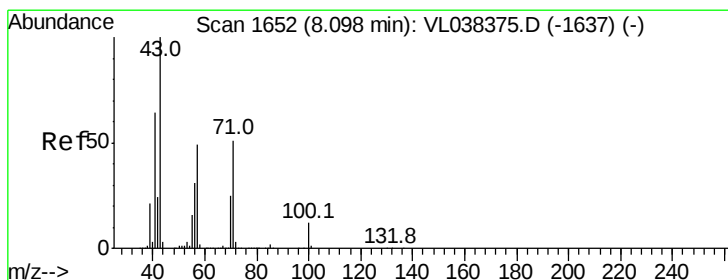
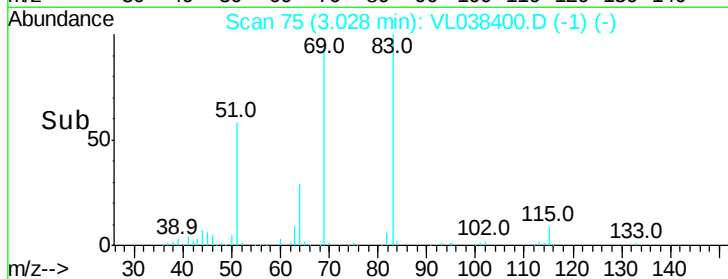
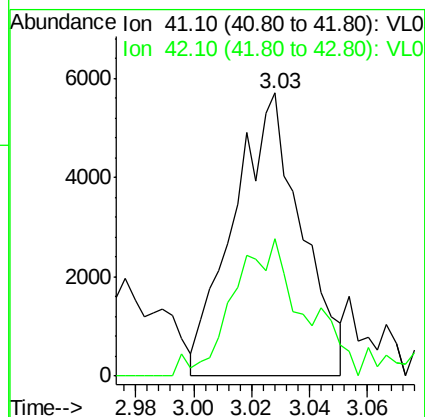
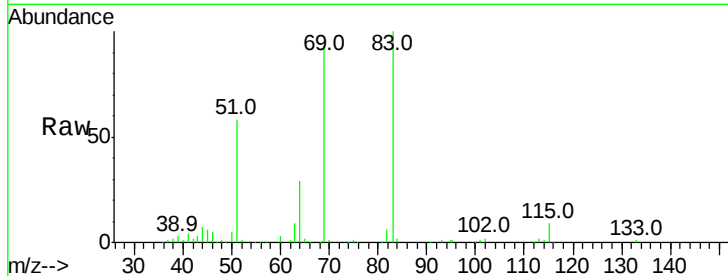
Acq: 22 Feb 2022 22:48

Tgt Ion: 41 Resp: 9270

Ion Ratio Lower Upper

41 100

42 56.3 54.6 82.0



#10

Heptane

Concen: 0.06 ppbv

RT: 8.12 min Scan# 1660

Delta R.T. 0.03 min

Lab File: VL038400.D

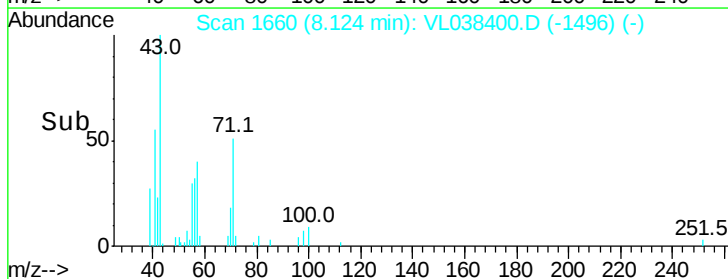
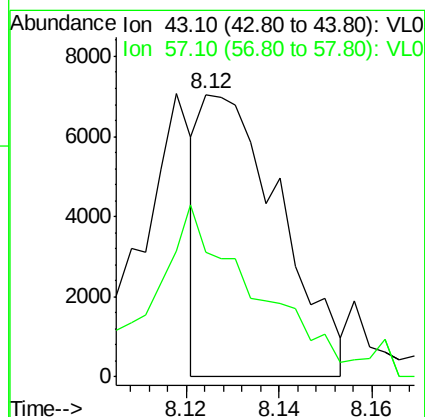
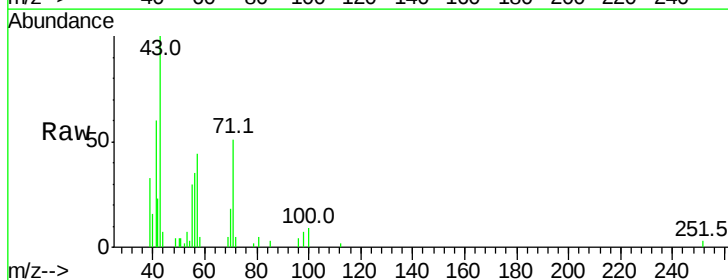
Acq: 22 Feb 2022 22:48

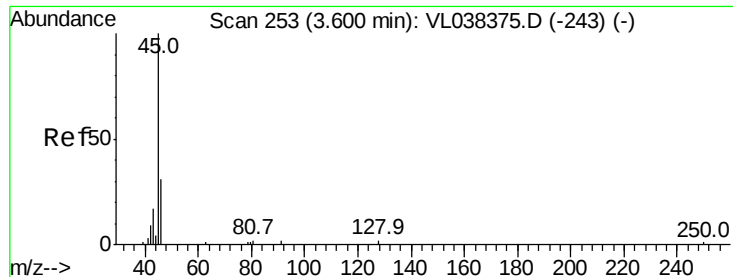
Tgt Ion: 43 Resp: 8379

Ion Ratio Lower Upper

43 100

57 88.9 39.8 59.8#





#13

Ethanol

Concen: 20.37 ppbv

RT: 3.62

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

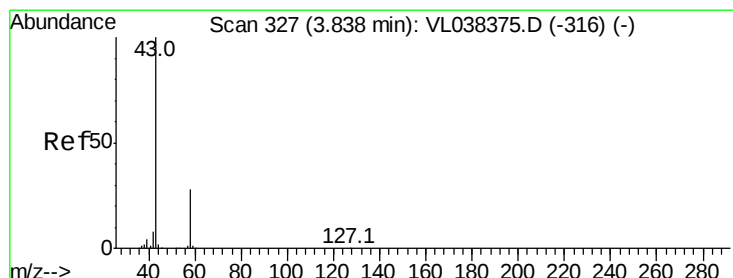
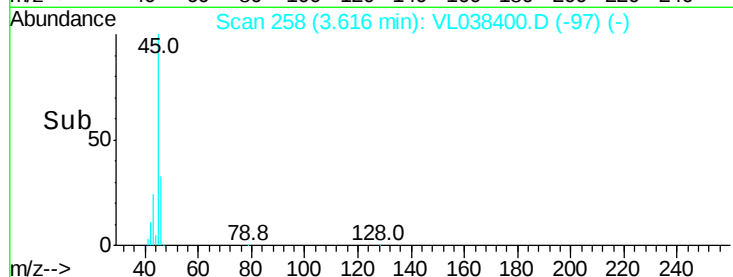
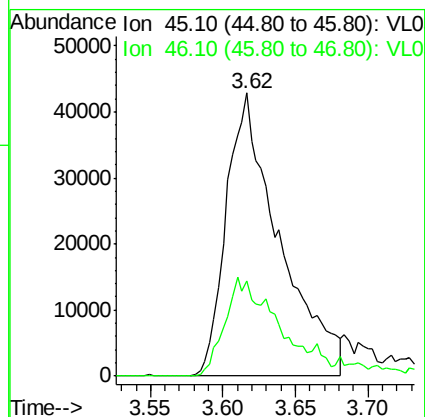
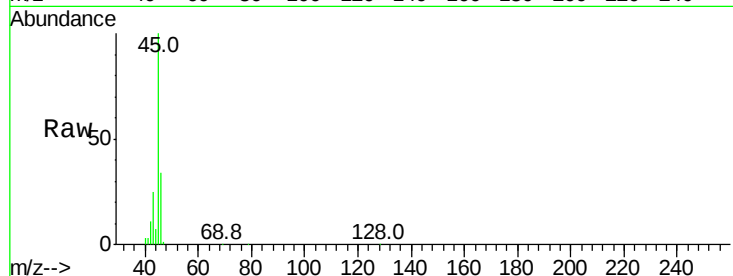
Acq: 22 Feb 2022 22:48

Tgt Ion: 45 Resp: 108554

Ion Ratio Lower Upper

45 100

46 39.0 18.2 72.8



#15

Acetone

Concen: 5.28 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.02 min

Lab File: VL038400.D

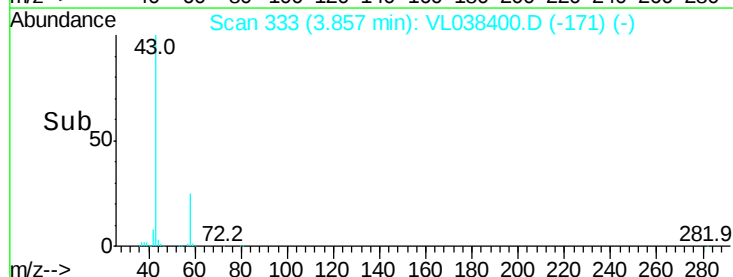
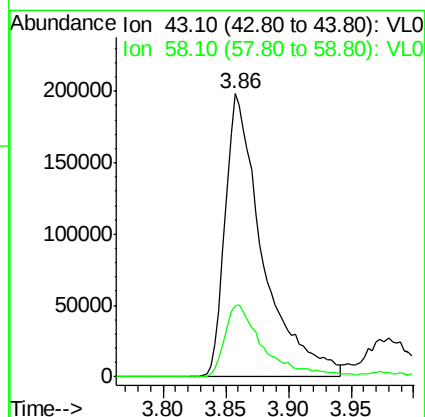
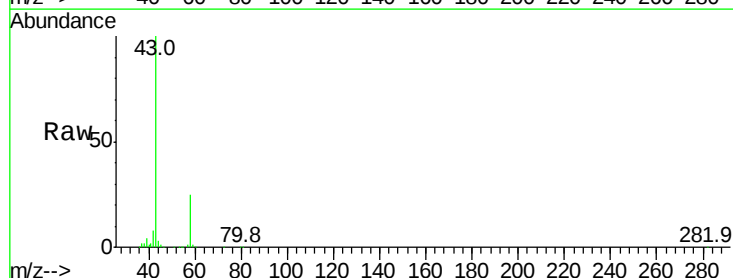
Acq: 22 Feb 2022 22:48

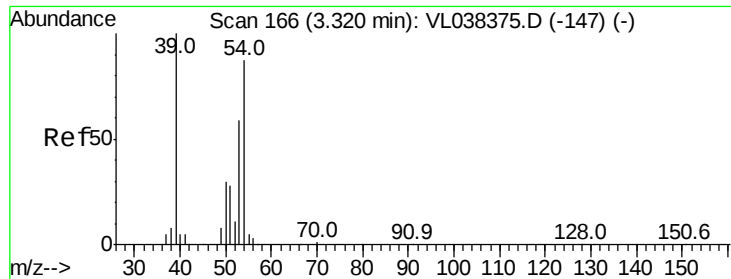
Tgt Ion: 43 Resp: 411689

Ion Ratio Lower Upper

43 100

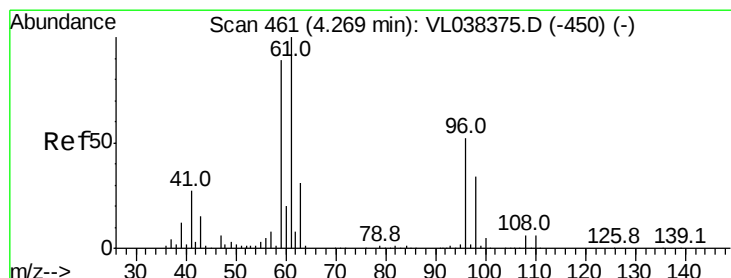
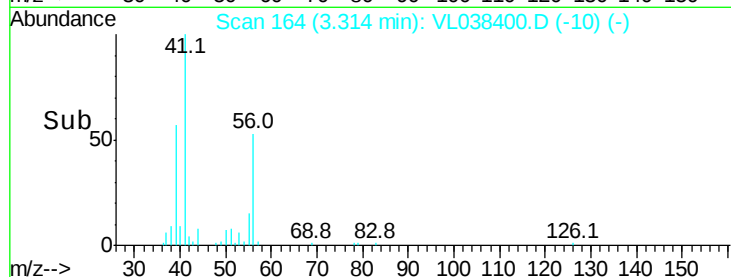
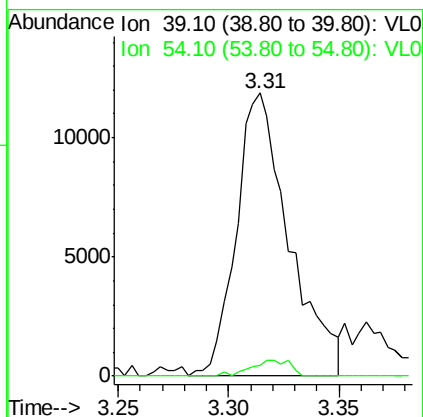
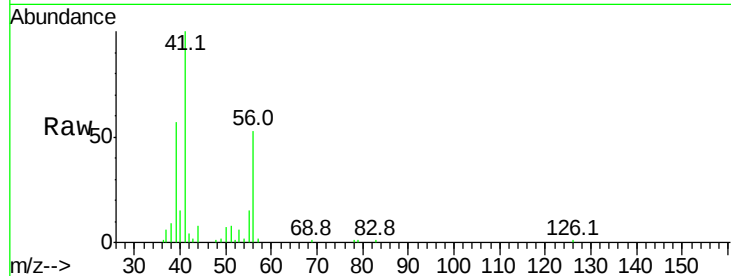
58 26.6 21.7 32.5





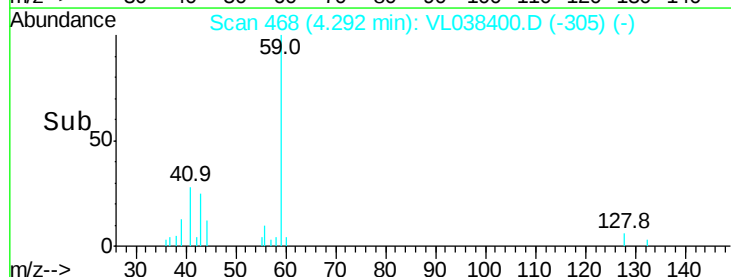
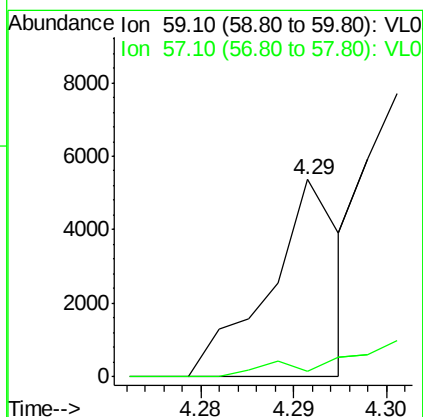
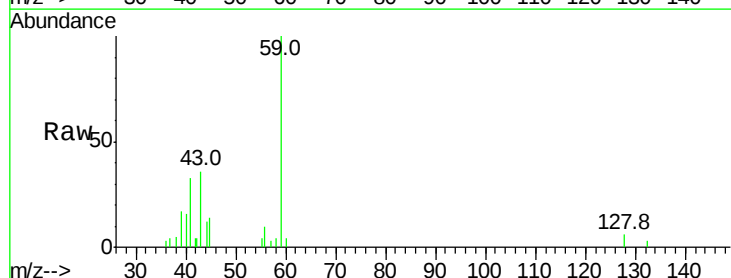
#16
 1,3-Butadiene
 Concen: 0.38 ppbv
 RT: 3.31
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 MP-8DL
 Acq: 22 Feb 2022 22:48

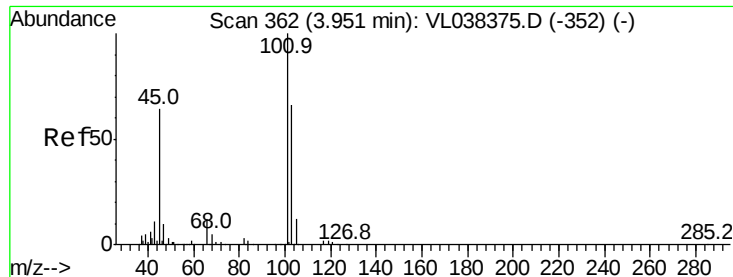
Tgt Ion: 39 Resp: 19745
 Ion Ratio Lower Upper
 39 100
 54 4.2 60.3 90.5#



#17
 tert-Butyl alcohol
 Concen: 0.04 ppbv
 RT: 4.29 min Scan# 468
 Delta R.T. 0.02 min
 Lab File: VL038400.D
 Acq: 22 Feb 2022 22:48

Tgt Ion: 59 Resp: 2841
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#





#19

Isopropyl Alcohol

Concen: 5.13 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

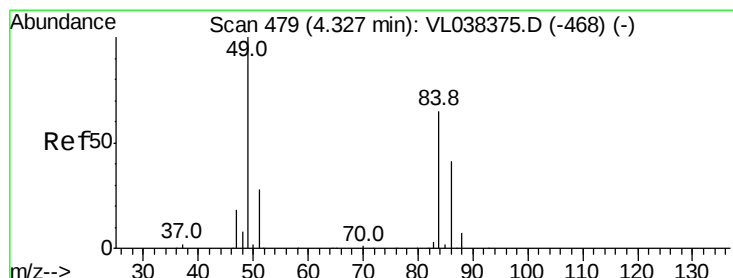
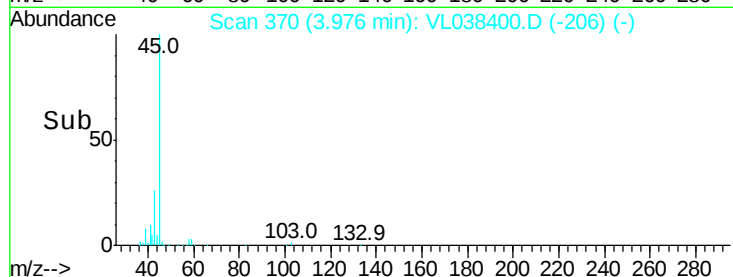
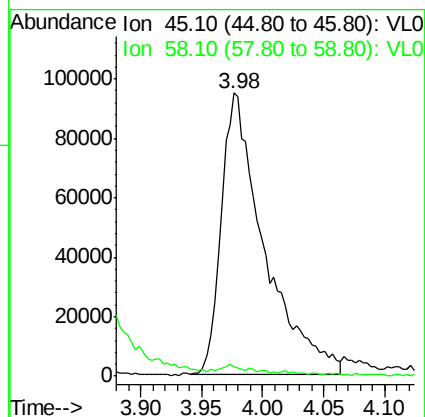
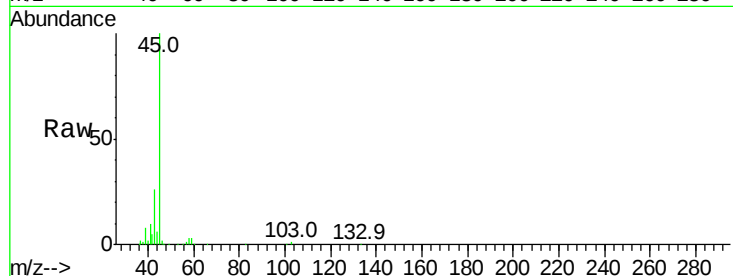
Acq: 22 Feb 2022 22:48 MP-8DL

Tgt Ion: 45 Resp: 231607

Ion Ratio Lower Upper

45 100

58 3.2 1.8 2.8#



#20

Methylene Chloride

Concen: 0.11 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.03 min

Lab File: VL038400.D

Acq: 22 Feb 2022 22:48

Tgt Ion: 84 Resp: 4438

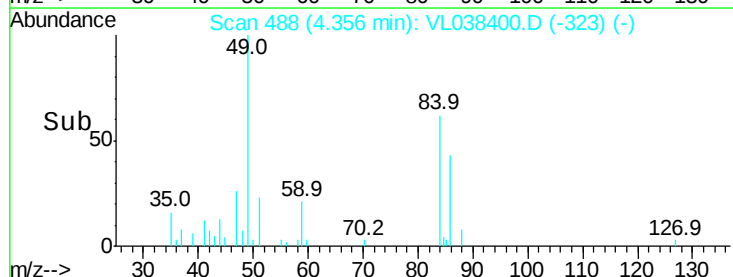
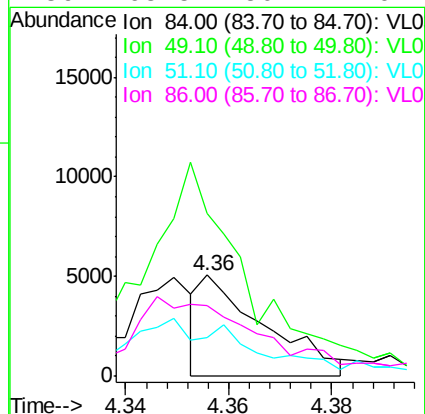
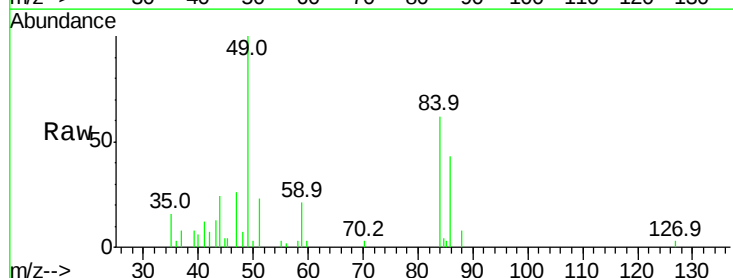
Ion Ratio Lower Upper

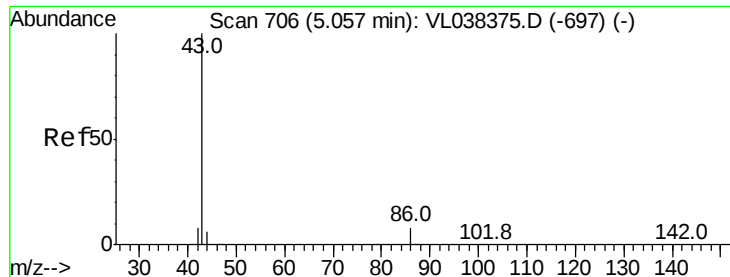
84 100

49 147.3 122.4 183.6

51 35.2 33.3 49.9

86 65.5 50.7 76.1





#23

Vinyl Acetate

Concen: 1.73 ppbv

RT: 5.06 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

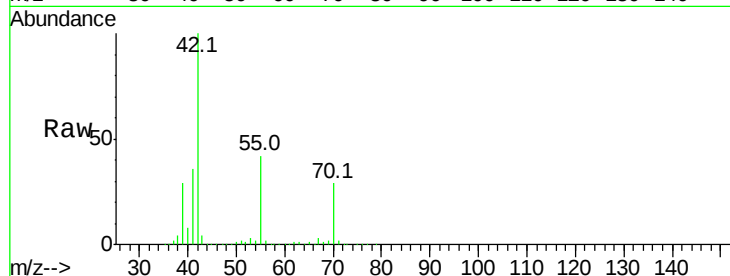
MP-8DL

Acq: 22 Feb 2022 22:48

Tgt Ion: 43 Resp: 178422

Ion Ratio Lower Upper

43	100		
86	0.0	5.8	8.6#
42	2470.9	7.4	11.0#
44	2.2	4.2	6.2#

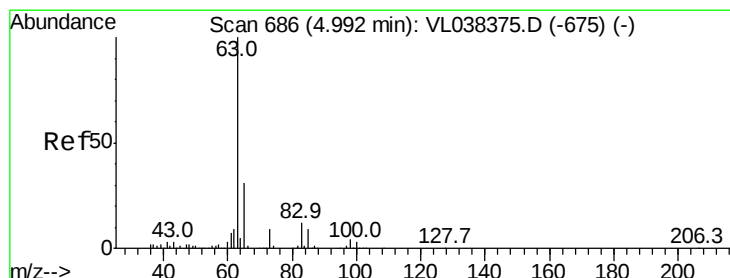
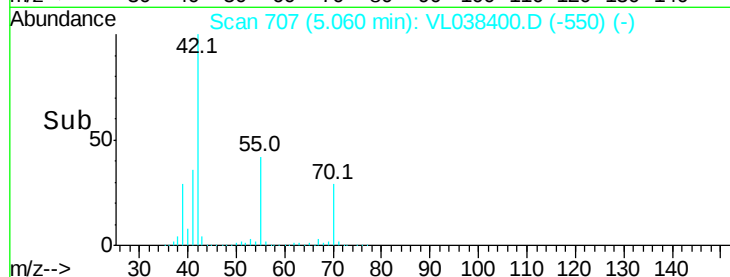
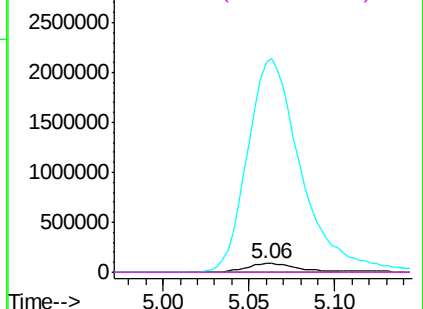


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.20 ppbv

RT: 5.06 min Scan# 707

Delta R.T. 0.07 min

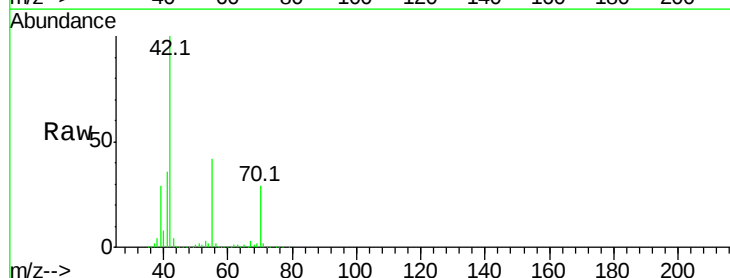
Lab File: VL038400.D

Acq: 22 Feb 2022 22:48

Tgt Ion: 63 Resp: 18541

Ion Ratio Lower Upper

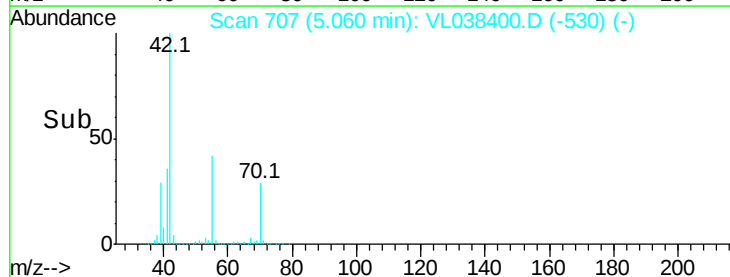
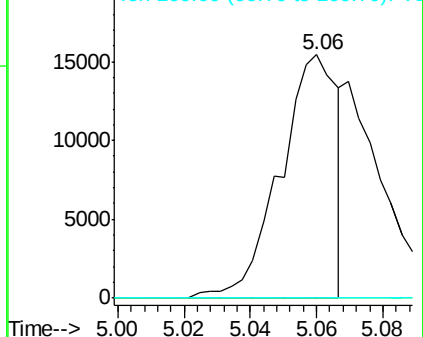
63	100		
98	0.0	2.1	6.5#
100	0.0	1.4	4.2#

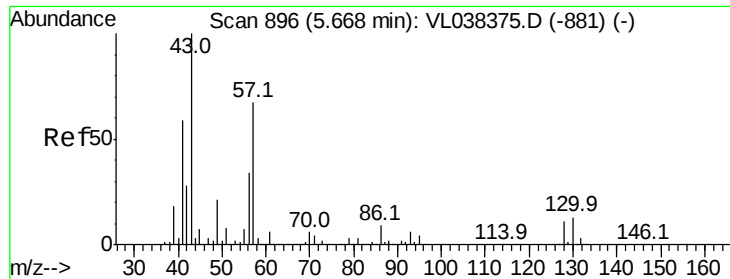


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

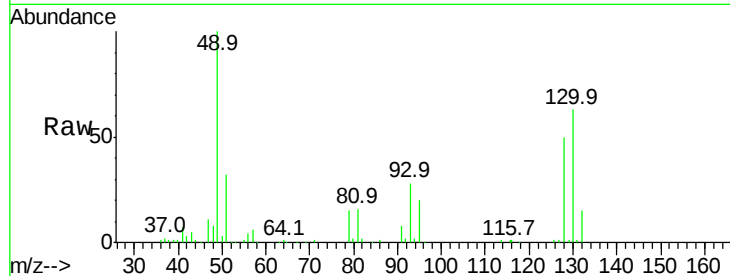
Ion 100.00 (99.70 to 100.70): VL0



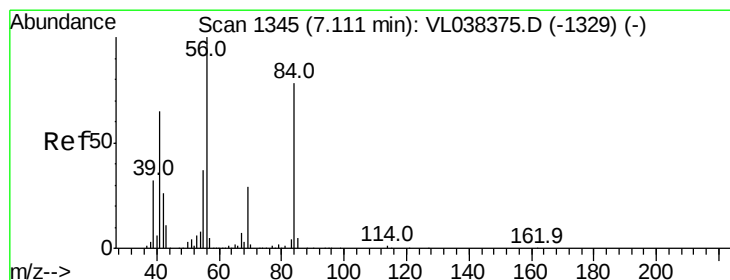
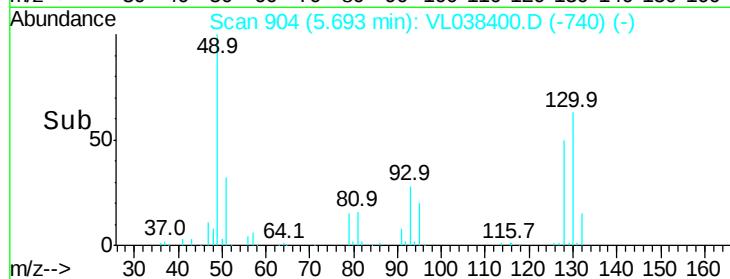
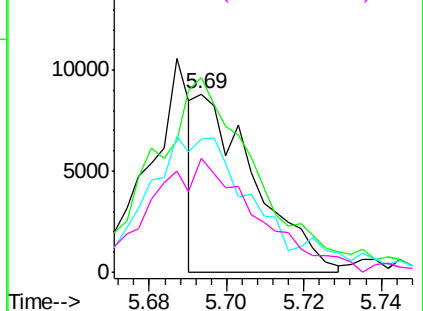


#26
Hexane
Concen: 0.10 ppbv
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
MP-8DL
Acq: 22 Feb 2022 22:48

Tgt Ion: 57 Resp: 9285
Ion Ratio Lower Upper
57 100
41 202.9 73.1 109.7#
43 0.0 181.0 271.4#
56 119.1 43.4 65.0#

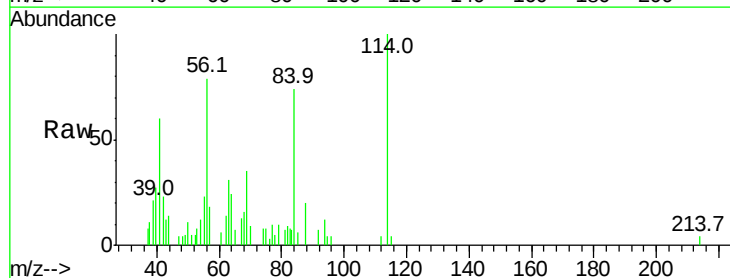


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

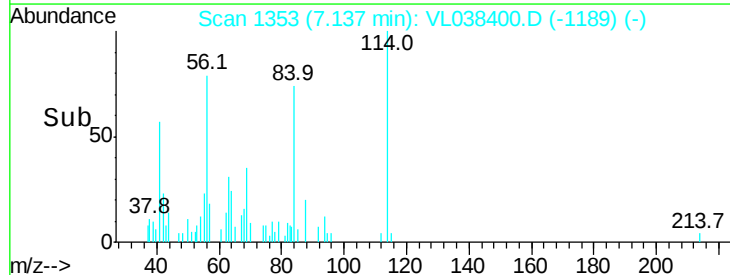
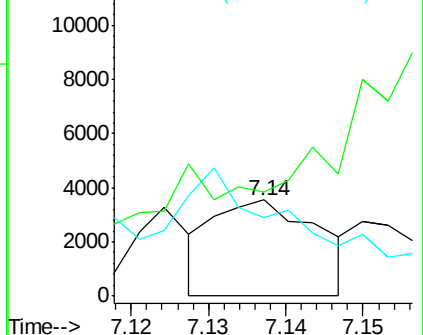


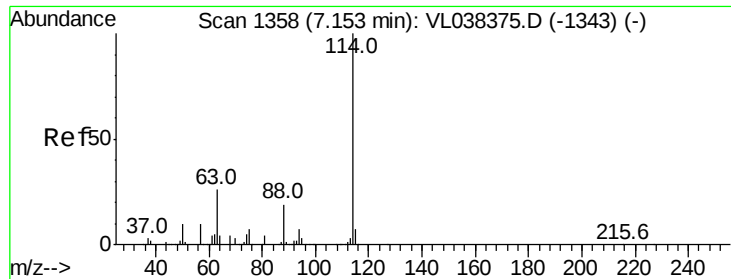
#30
Cyclohexane
Concen: 0.04 ppbv
RT: 7.14 min Scan# 1353
Delta R.T. 0.03 min
Lab File: VL038400.D
Acq: 22 Feb 2022 22:48

Tgt Ion: 84 Resp: 3364
Ion Ratio Lower Upper
84 100
56 0.0 116.2 174.4#
41 310.6 74.3 111.5#



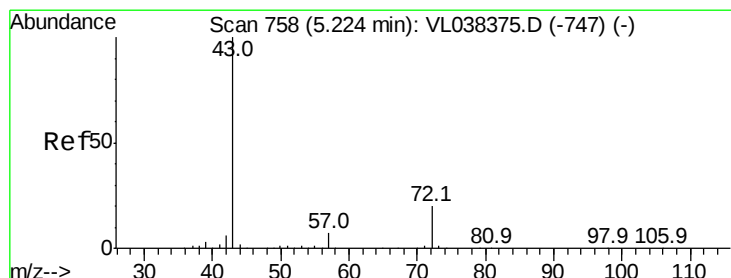
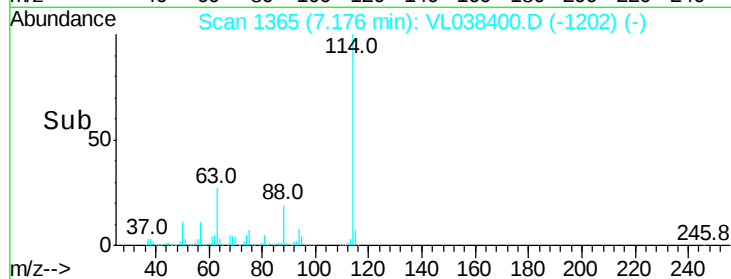
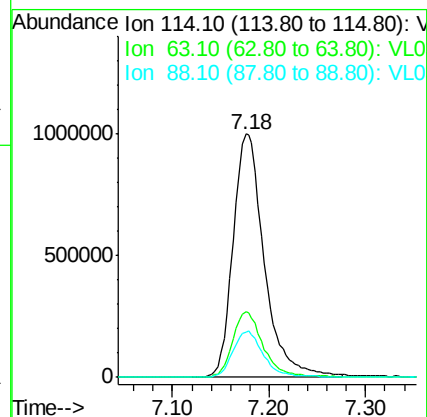
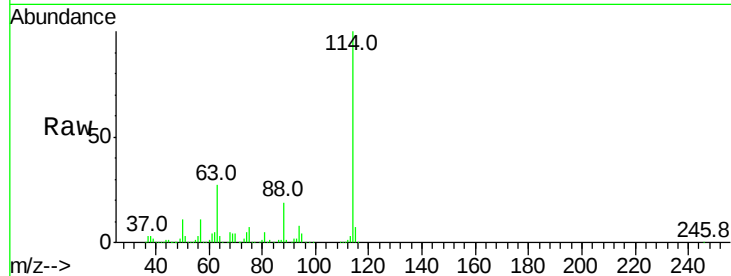
Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0





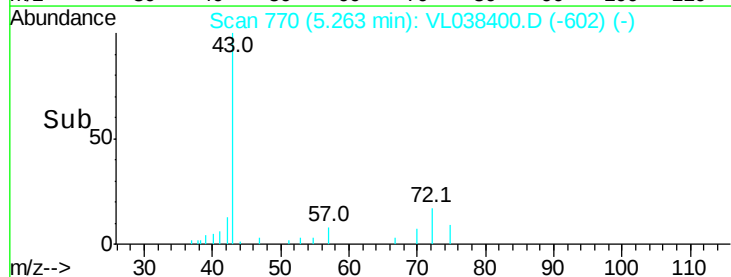
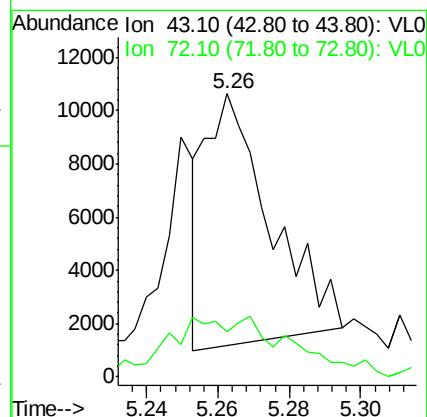
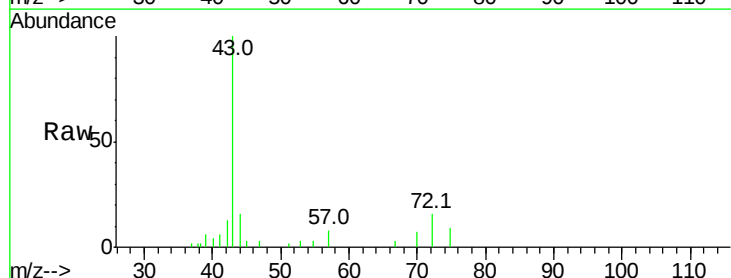
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 MP-8DL
 Acq: 22 Feb 2022 22:48

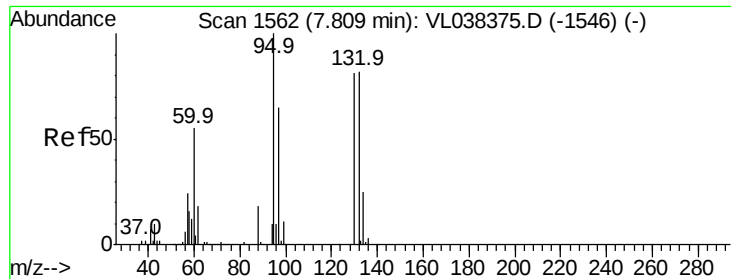
Tgt Ion: 114 Resp: 2238120
 Ion Ratio Lower Upper
 114 100
 63 26.8 22.2 33.2
 88 19.0 15.2 22.8



#34
 2-Butanone
 Concen: 0.17 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. 0.04 min
 Lab File: VL038400.D
 Acq: 22 Feb 2022 22:48

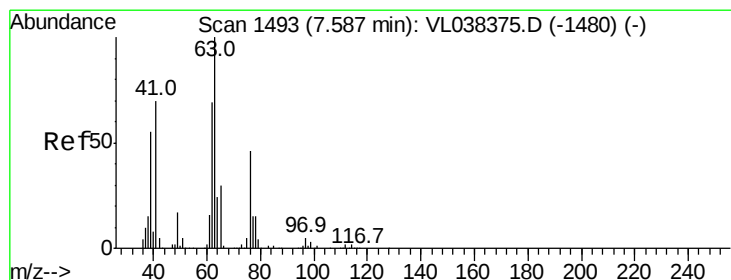
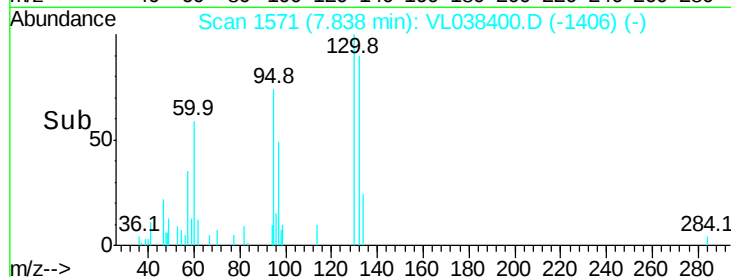
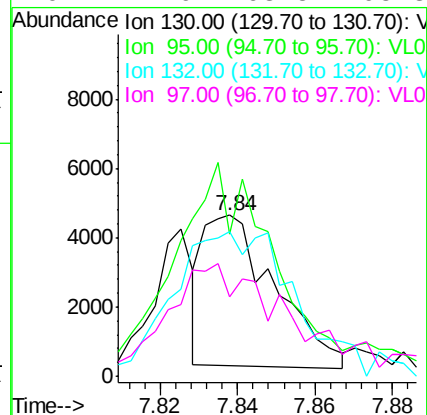
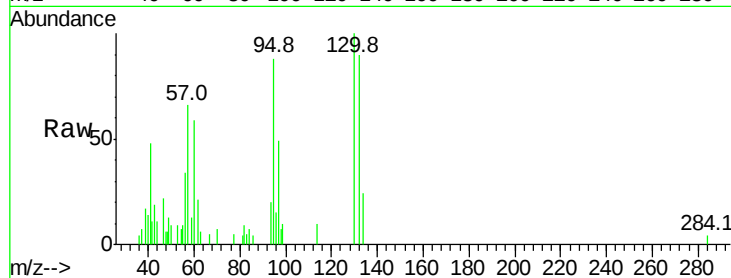
Tgt Ion: 43 Resp: 11920
 Ion Ratio Lower Upper
 43 100
 72 47.9 17.4 26.2#





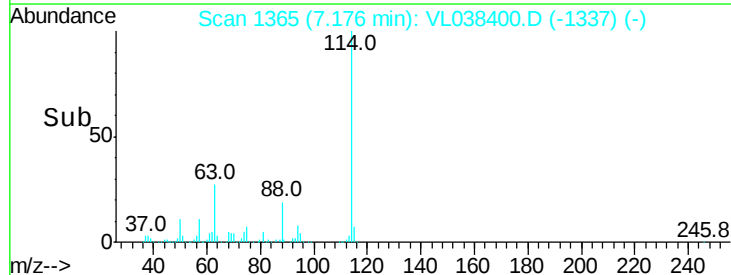
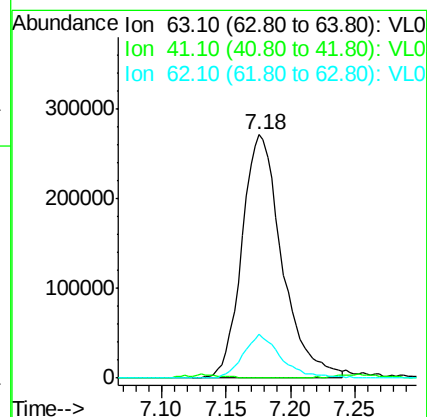
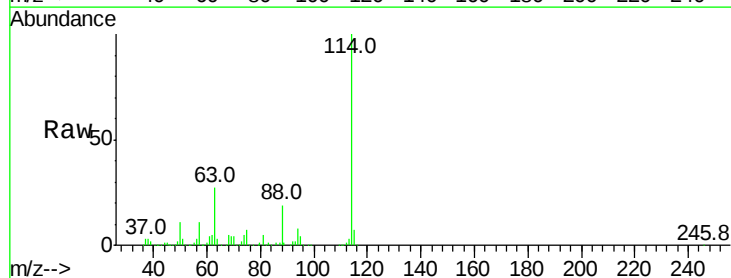
#38
 Trichloroethene
 Concen: 0.08 ppbv
 RT: 7.84
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 Acq: 22 Feb 2022 22:48

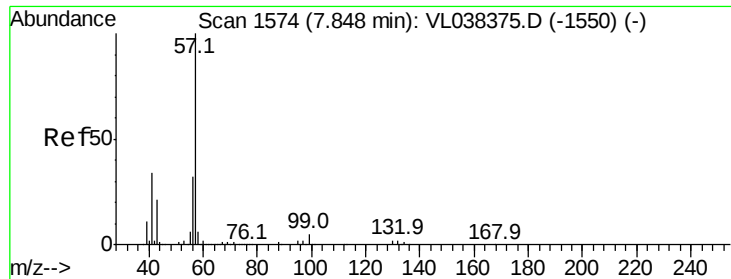
Tgt Ion: 130 Resp: 5609
 Ion Ratio Lower Upper
 130 100
 95 101.8 98.1 147.1
 132 79.3 80.3 120.5#
 97 41.9 63.5 95.3#



#39
 1,2-Dichloropropane
 Concen: 7.47 ppbv
 RT: 7.18 min Scan# 1365
 Delta R.T. -0.41 min
 Lab File: VL038400.D
 Acq: 22 Feb 2022 22:48

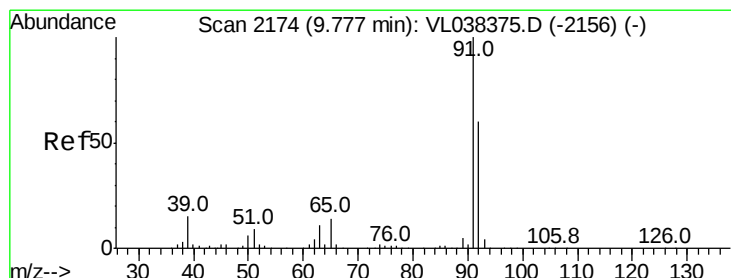
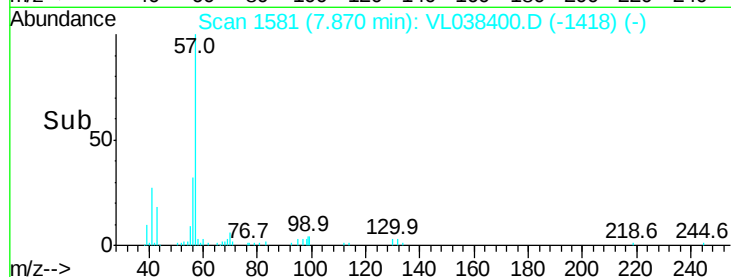
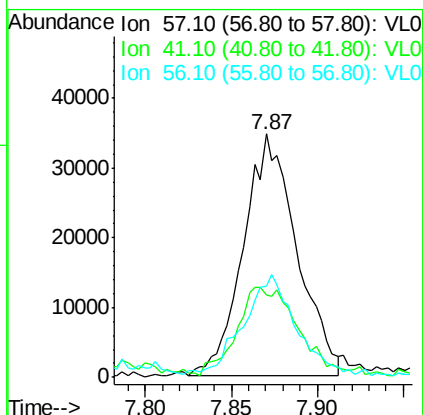
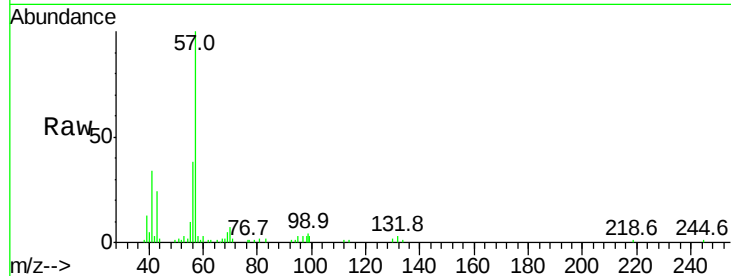
Tgt Ion: 63 Resp: 586238
 Ion Ratio Lower Upper
 63 100
 41 0.0 56.1 84.1#
 62 18.0 55.5 83.3#





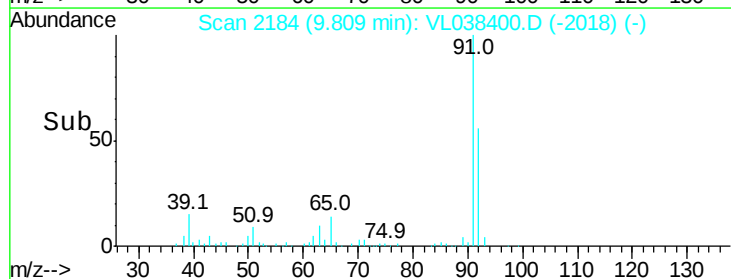
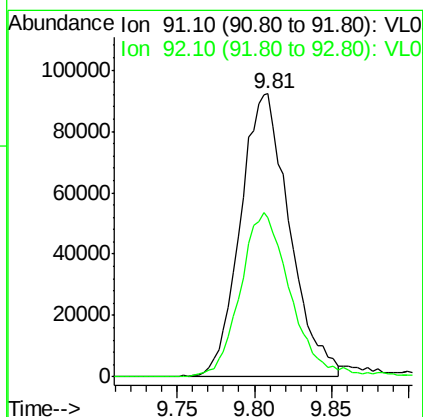
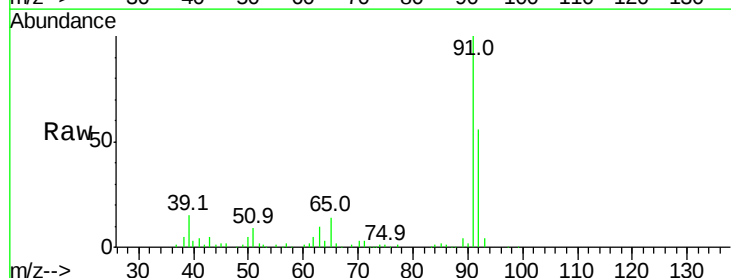
#44
 2,2,4-Trimethylpentane
 Concen: 0.22 ppbv
 RT: 7.87
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 22 Feb 2022 22:48

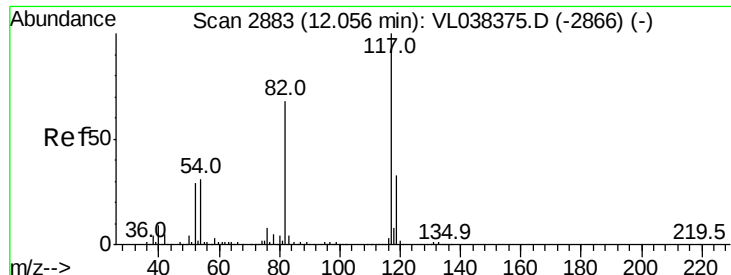
Tgt Ion: 57 Resp: 74726
 Ion Ratio Lower Upper
 57 100
 41 44.0 26.6 39.8#
 56 43.7 25.0 37.6#



#53
 Toluene
 Concen: 0.95 ppbv
 RT: 9.81 min Scan# 2184
 Delta R.T. 0.03 min
 Lab File: VL038400.D
 Acq: 22 Feb 2022 22:48

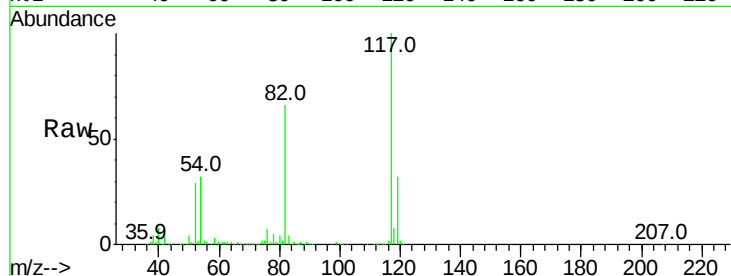
Tgt Ion: 91 Resp: 202987
 Ion Ratio Lower Upper
 91 100
 92 60.5 48.2 72.4



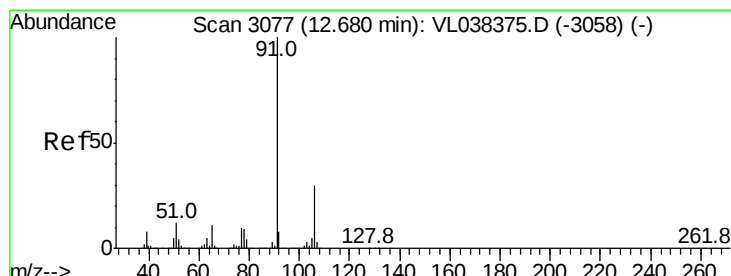
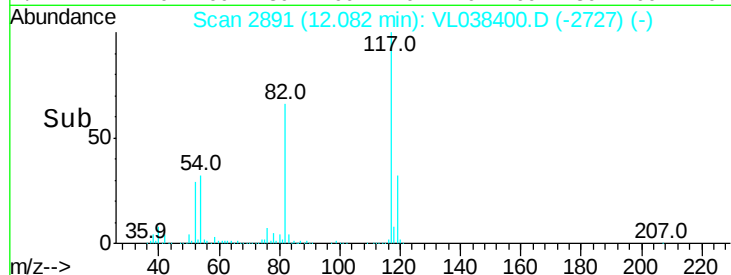
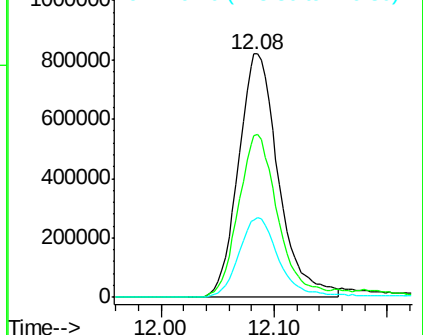


#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
MP-8DL
Acq: 22 Feb 2022 22:48

Tgt Ion: 117 Resp: 2018864
Ion Ratio Lower Upper
117 100
82 72.1 54.9 82.3
119 34.2 46.1 69.1#

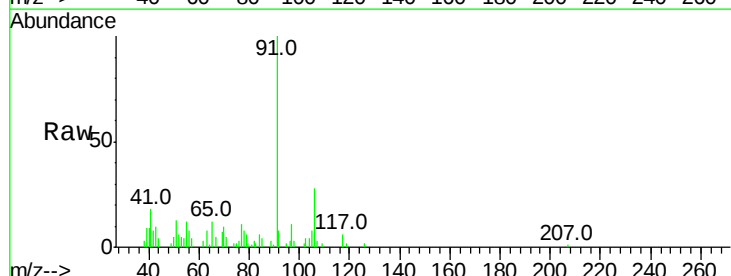


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

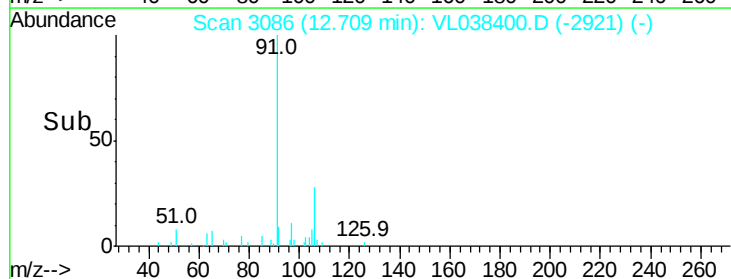
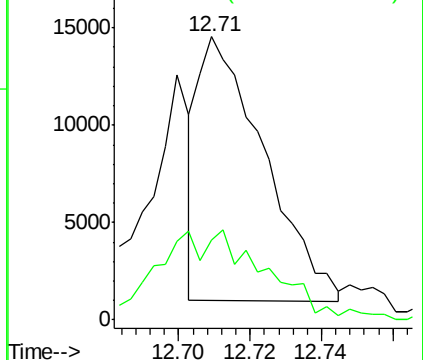


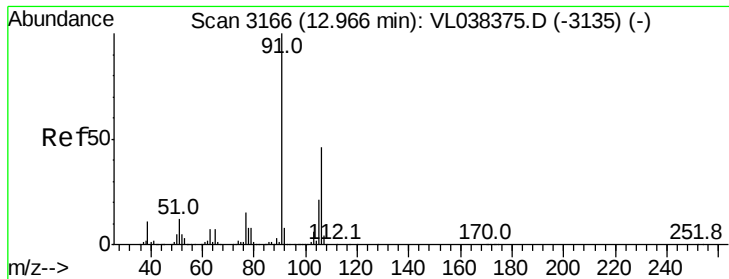
#58
Ethyl Benzene
Concen: 0.06 ppbv
RT: 12.71 min Scan# 3086
Delta R.T.: 0.03 min
Lab File: VL038400.D
Acq: 22 Feb 2022 22:48

Tgt Ion: 91 Resp: 17261
Ion Ratio Lower Upper
91 100
106 29.5 24.0 36.0



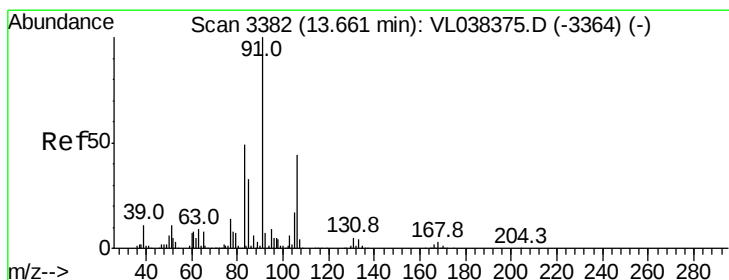
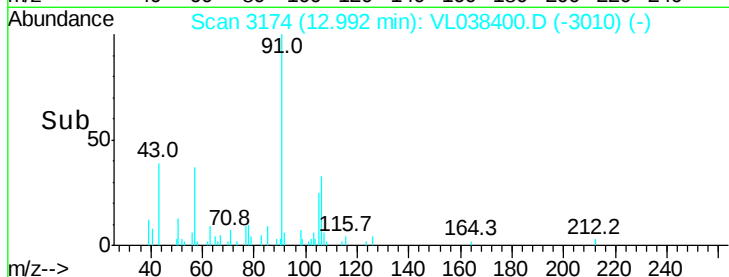
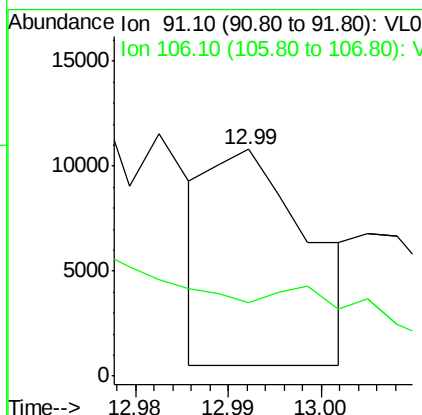
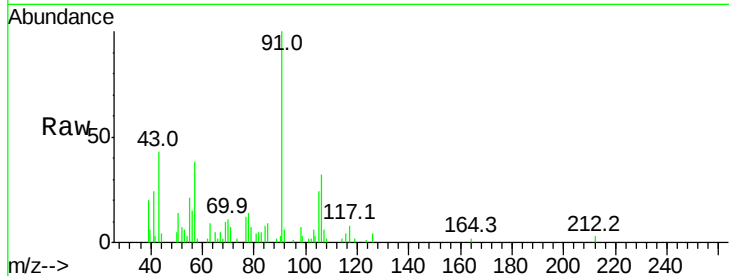
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





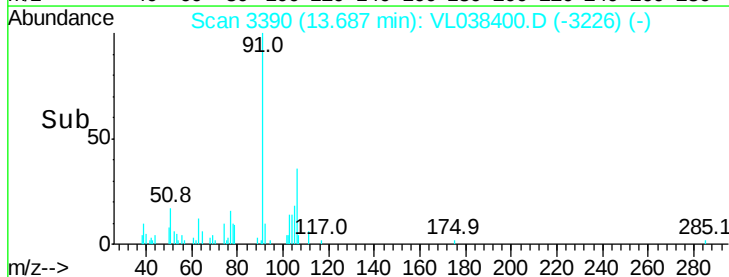
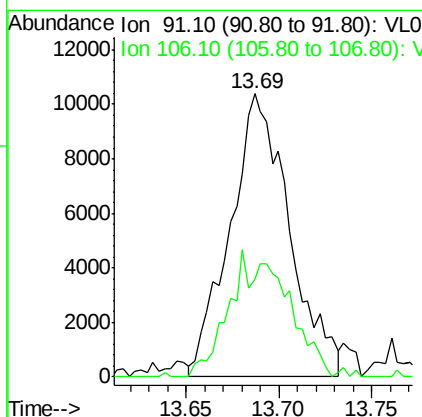
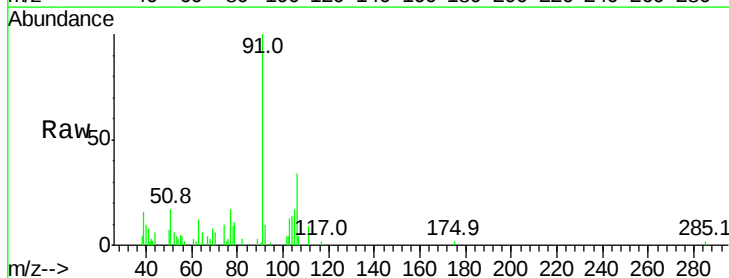
#59
m/p-Xylene
Concen: 0.03 ppbv
RT: 12.99 min
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 22 Feb 2022 22:48

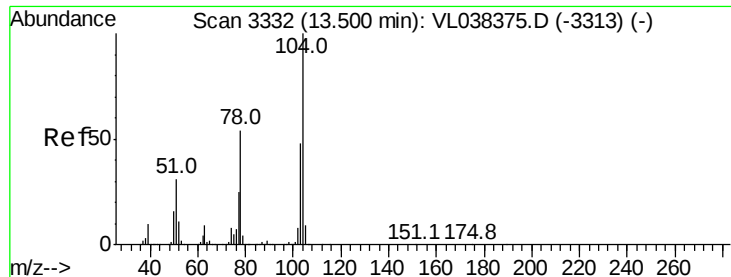
Tgt Ion: 91 Resp: 7662
Ion Ratio Lower Upper
91 100
106 0.0 34.4 51.6#



#60
o-Xylene
Concen: 0.10 ppbv
RT: 13.69 min Scan# 3390
Delta R.T. 0.03 min
Lab File: VL038400.D
Acq: 22 Feb 2022 22:48

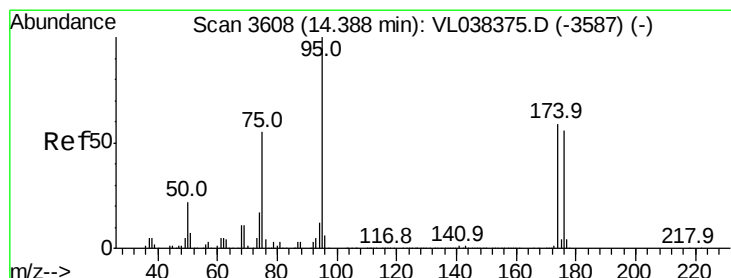
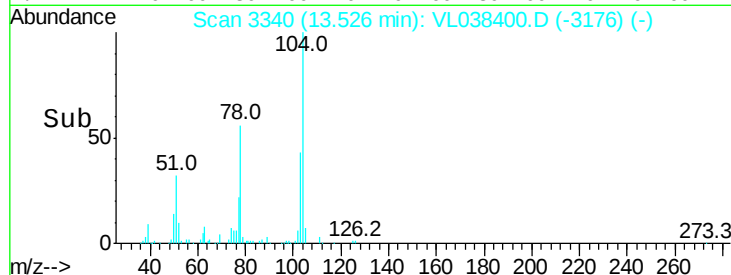
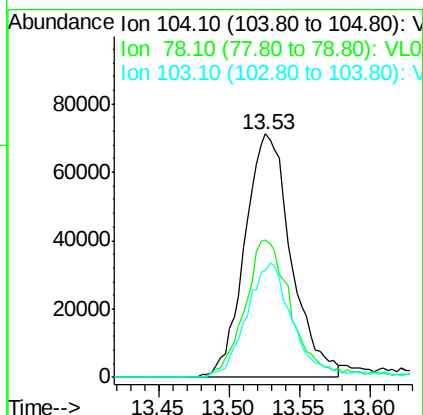
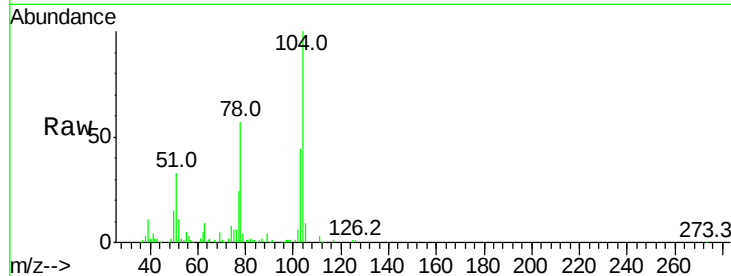
Tgt Ion: 91 Resp: 23205
Ion Ratio Lower Upper
91 100
106 44.3 21.9 65.5





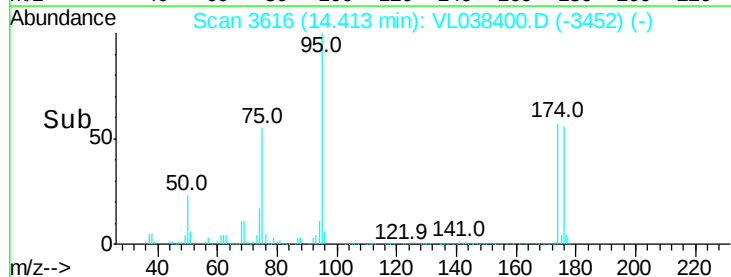
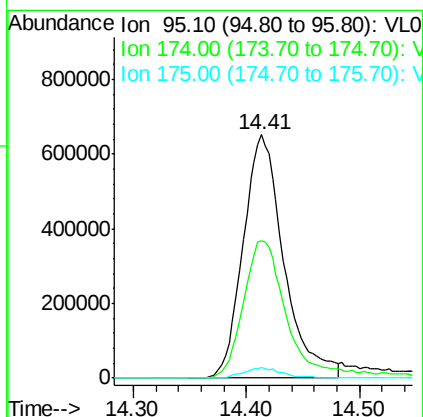
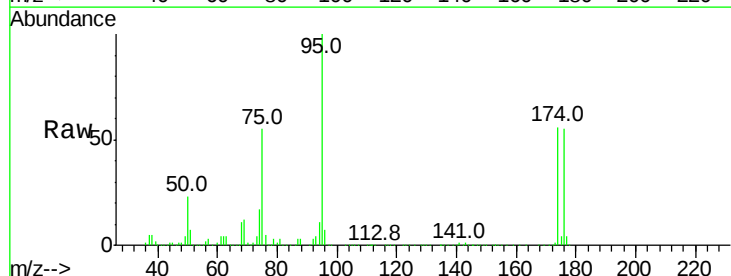
#61
Styrene
Concen: 1.58 ppbv
RT: 13.53
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 22 Feb 2022 22:48

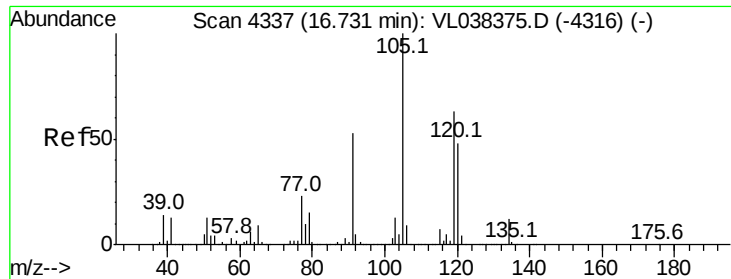
Tgt Ion: 104 Resp: 163835
Ion Ratio Lower Upper
104 100
78 58.5 44.2 66.4
103 47.4 38.4 57.6



#68
1-Bromo-4-Fluorobenzene
Concen: 9.75 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. 0.03 min
Lab File: VL038400.D
Acq: 22 Feb 2022 22:48

Tgt Ion: 95 Resp: 1628412
Ion Ratio Lower Upper
95 100
174 63.4 49.0 73.4
175 4.6 3.6 5.4





#74
 1,2,4-Trimethylbenzene
 Concen: 0.07 ppbv
 RT: 16.77
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 MP-8DL
 Acq: 22 Feb 2022 22:48

Tgt Ion:	105	Resp:	16772
Ion Ratio	Lower	Upper	
105	100		
120	44.4	38.2	57.4
91	13.6	42.7	64.1#
77	9.5	18.5	27.7#

