

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL012722\
 Data File : VL038308.D
 Acq On : 27 Jan 2022 22:33
 Operator : SY/AP
 Sample : N1308-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-20

Quant Time: Jan 28 05:15:08 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 24 14:12:48 2022
 QLast Update : Mon Jan 24 14:12:48 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	793441	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	1947764	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	1659901	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1269989	10.08	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.80%

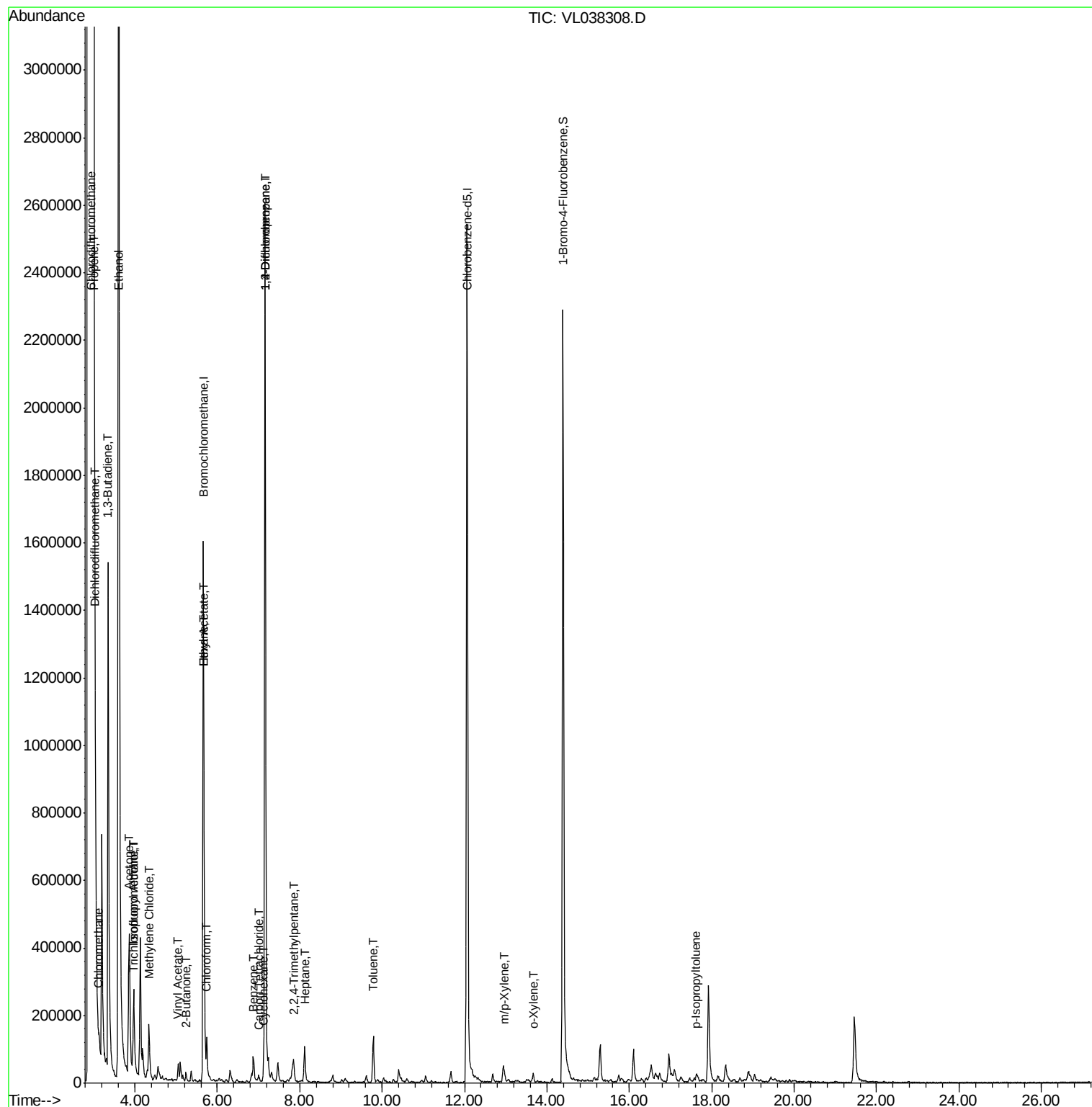
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	66146	0.392	ppbv	100
3) Chlorodifluoromethane	2.95	51	219396	1.389	ppbv #	72
4) Chloromethane	3.13	50	20599	0.379	ppbv	94
9) Propene	3.01	41	66669	1.297	ppbv	88
10) Heptane	8.11	43	18925	0.143	ppbv	98
11) Trichlorofluoromethane	3.95	101	14797	0.112	ppbv	100
13) Ethanol	3.60	45	5666173	1026.496	ppbv	98
15) Acetone	3.85	43	437219	6.251	ppbv #	89
16) 1,3-Butadiene	3.35	39	239236	4.766	ppbv #	14
19) Isopropyl Alcohol	3.97	45	310916	7.106	ppbv	99
20) Methylene Chloride	4.34	84	62398	1.534	ppbv	97
23) Vinyl Acetate	5.05	43	26199	0.258	ppbv #	39
25) Ethyl Acetate	5.68	43	70258	0.359	ppbv #	88
26) Hexane	5.68	57	75666	0.831	ppbv #	51
29) Chloroform	5.74	83	76424	0.514	ppbv	100
30) Cyclohexane	7.11	84	2562	0.032	ppbv #	1
34) 2-Butanone	5.23	43	15813	0.248	ppbv #	53
35) Carbon Tetrachloride	7.01	117	8340	0.061	ppbv #	84
36) Benzene	6.88	78	56332	0.327	ppbv #	96
39) 1,2-Dichloropropane	7.16	63	529748	7.584	ppbv #	25
44) 2,2,4-Trimethylpentane	7.85	57	23971	0.079	ppbv #	17
53) Toluene	9.79	91	89002	0.467	ppbv	99
59) m/p-Xylene	12.97	91	13698	0.066	ppbv #	32
60) o-Xylene	13.66	91	9895	0.051	ppbv #	39
69) p-Isopropyltoluene	17.63	119	8288	0.037	ppbv #	46

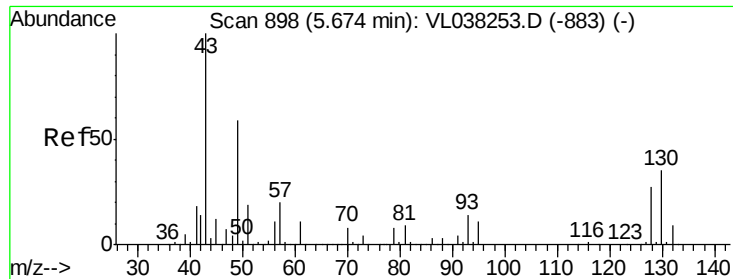
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA-20

Acq: 27 Jan 2022 22:33

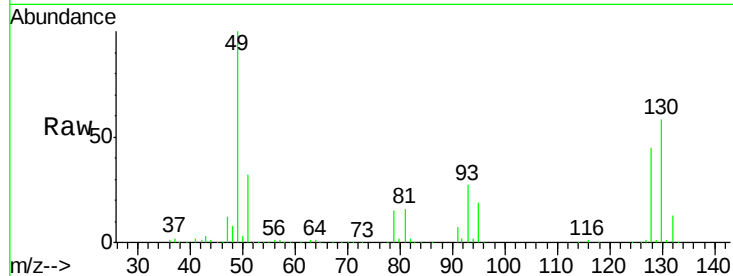
Tgt Ion: 49 Resp: 793441

Ion Ratio Lower Upper

49 100

128 44.9 24.5 73.5

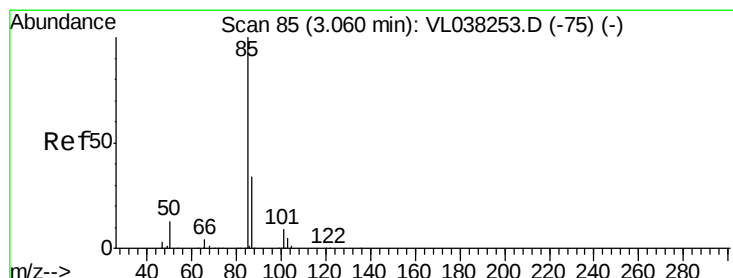
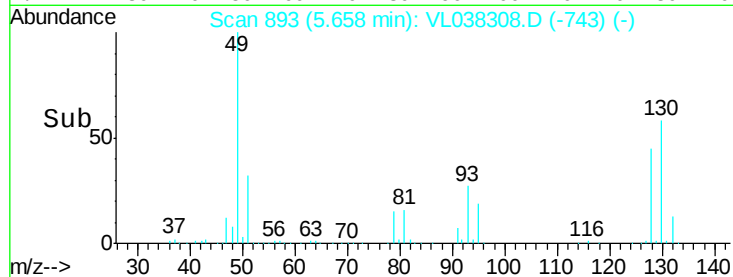
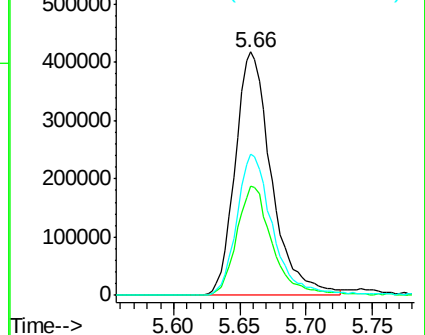
130 58.3 30.1 90.5



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: 0.392 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.02 min

Lab File: VL038308.D

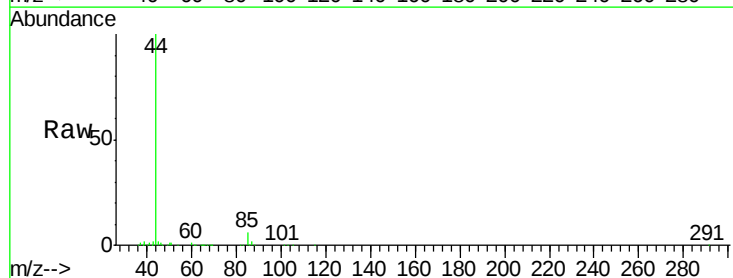
Acq: 27 Jan 2022 22:33

Tgt Ion: 85 Resp: 66146

Ion Ratio Lower Upper

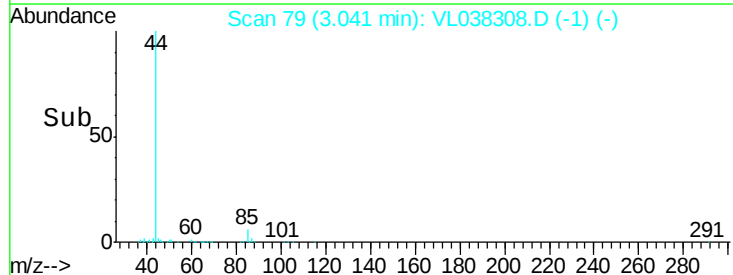
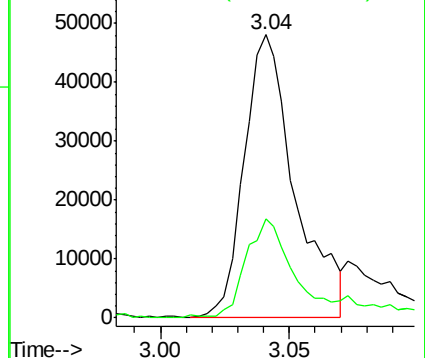
85 100

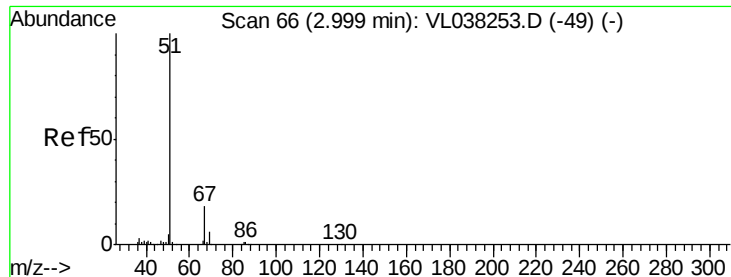
87 33.9 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.389 ppbv

RT: 2.95 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

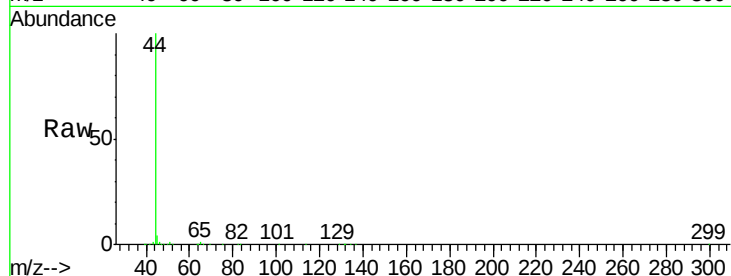
Acq: 27 Jan 2022 22:33

Tgt Ion: 51 Resp: 219396

Ion Ratio Lower Upper

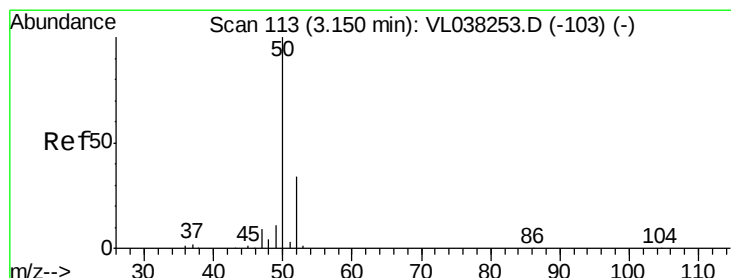
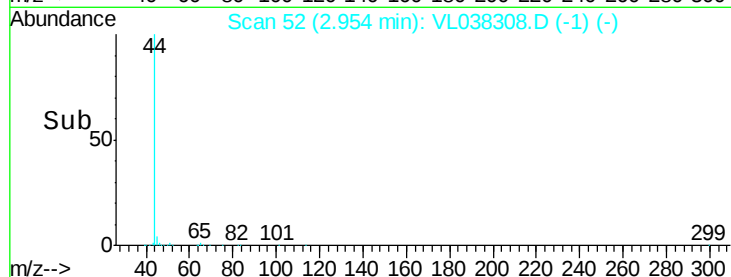
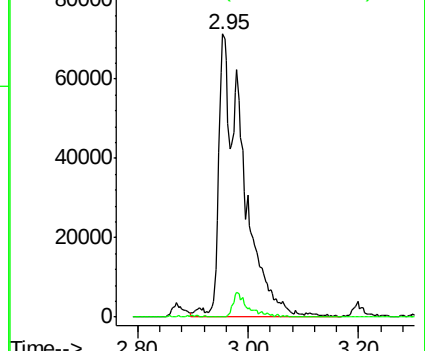
51 100

67 5.6 14.4 21.6#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.379 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.02 min

Lab File: VL038308.D

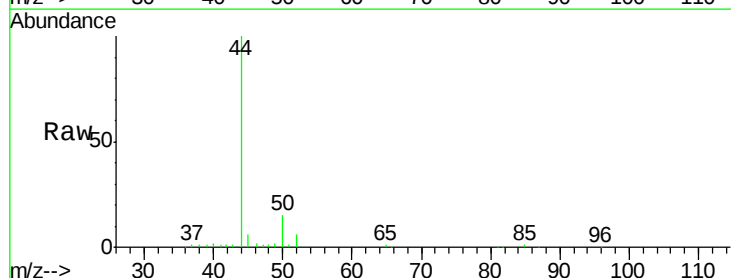
Acq: 27 Jan 2022 22:33

Tgt Ion: 50 Resp: 20599

Ion Ratio Lower Upper

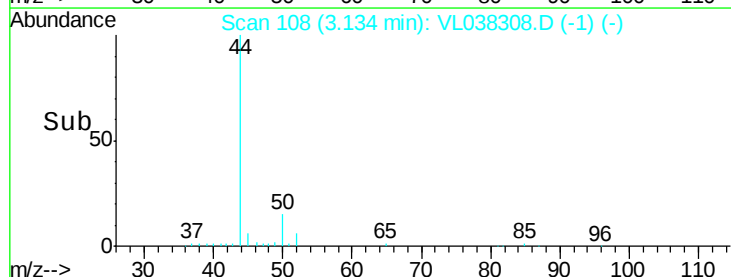
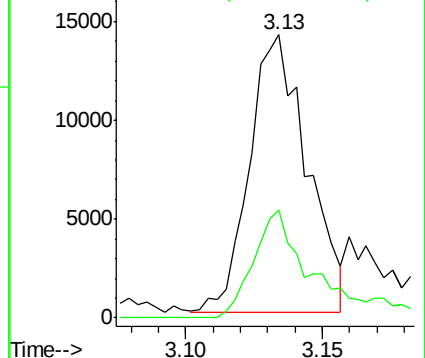
50 100

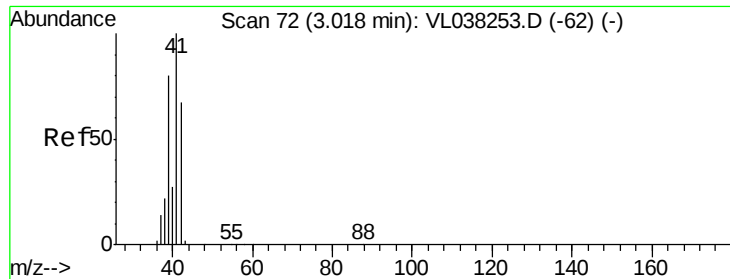
52 37.5 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.297 ppbv

RT: 3.01

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

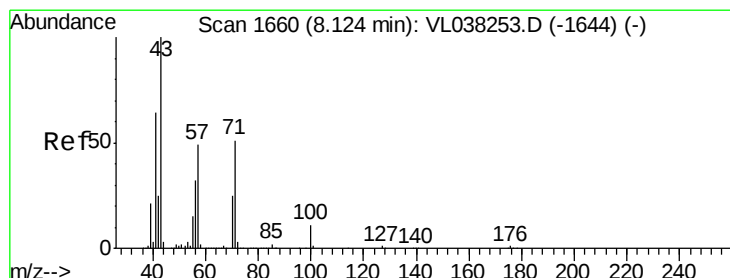
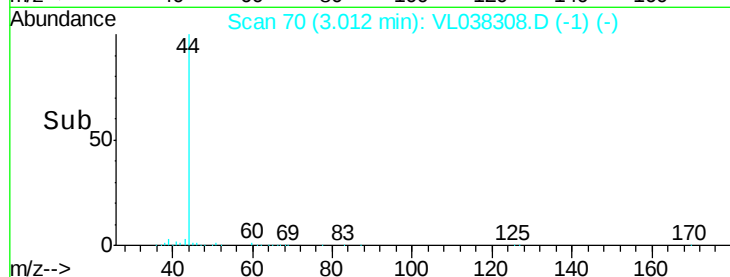
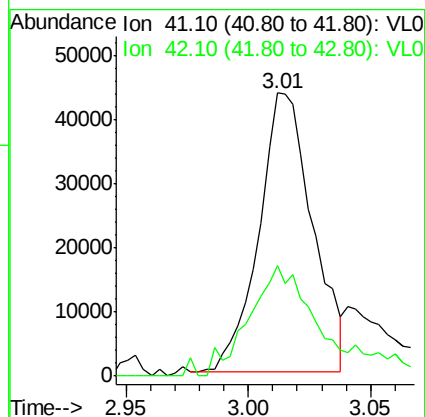
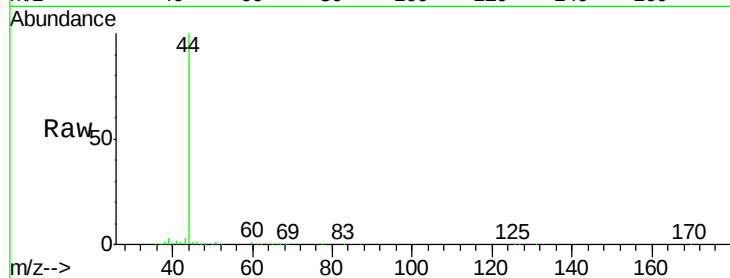
Acq: 27 Jan 2022 22:33

Tgt Ion: 41 Resp: 66669

Ion Ratio Lower Upper

41 100

42 59.2 54.9 82.3



#10

Heptane

Concen: 0.143 ppbv

RT: 8.11 min Scan# 1655

Delta R.T. -0.02 min

Lab File: VL038308.D

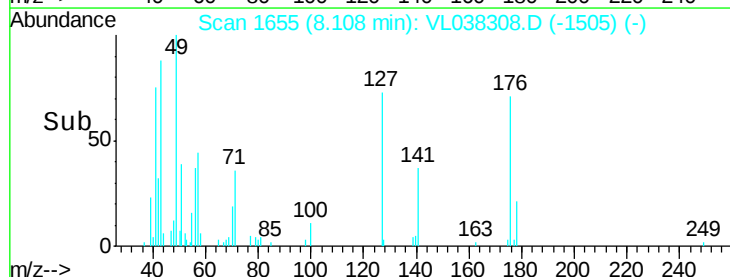
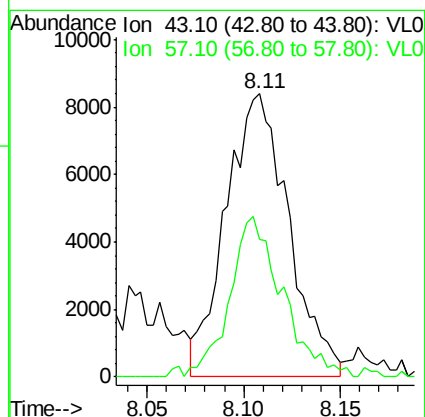
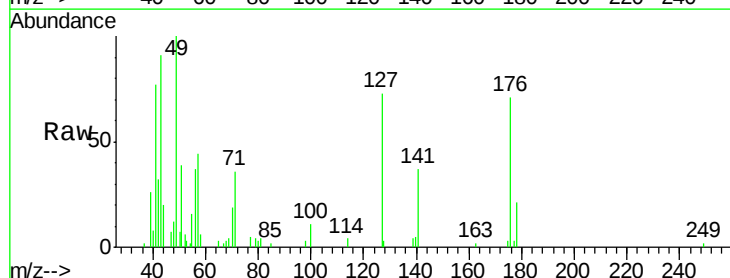
Acq: 27 Jan 2022 22:33

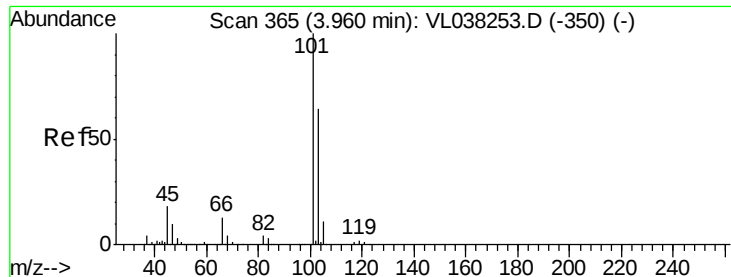
Tgt Ion: 43 Resp: 18925

Ion Ratio Lower Upper

43 100

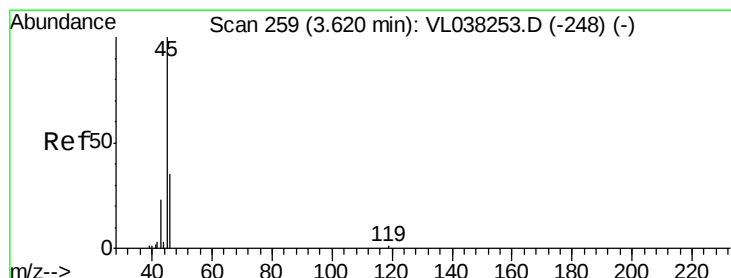
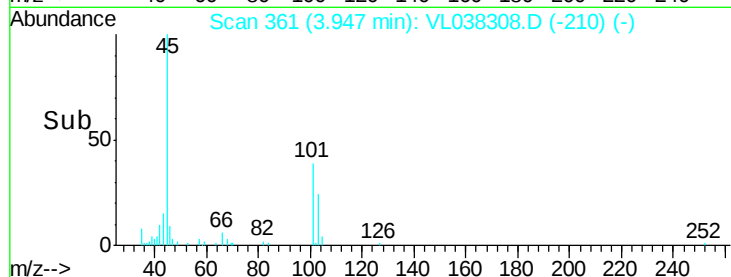
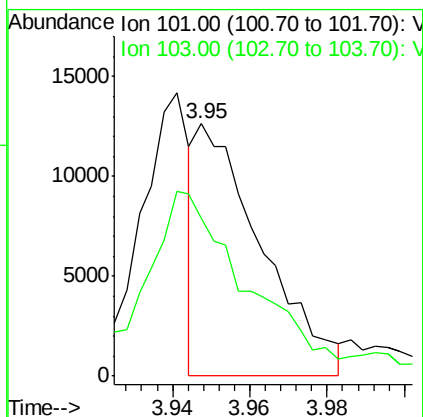
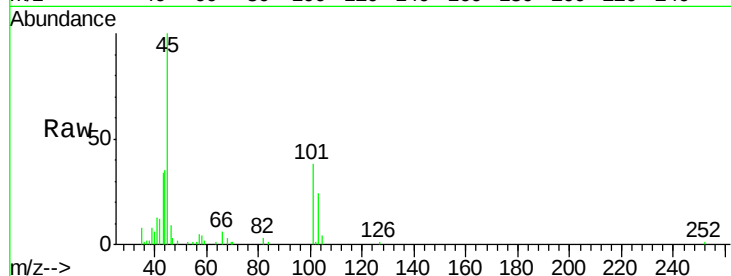
57 48.3 39.5 59.3





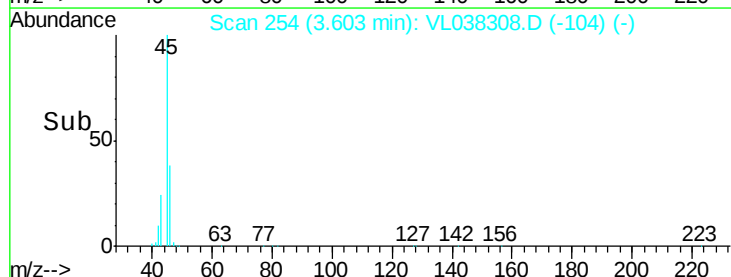
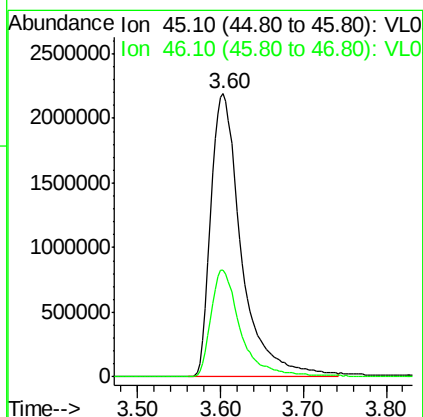
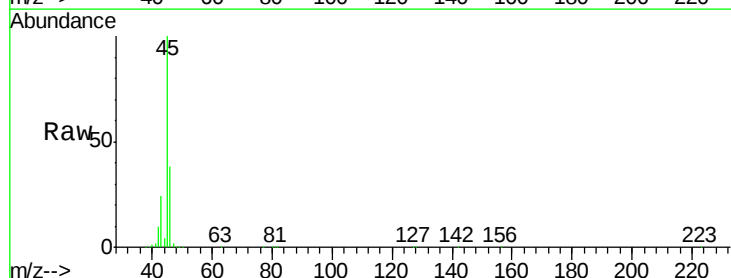
#11
 Trichlorofluoromethane
 Concen: 0.112 ppbv
 RT: 3.95
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Jan 2022 22:33

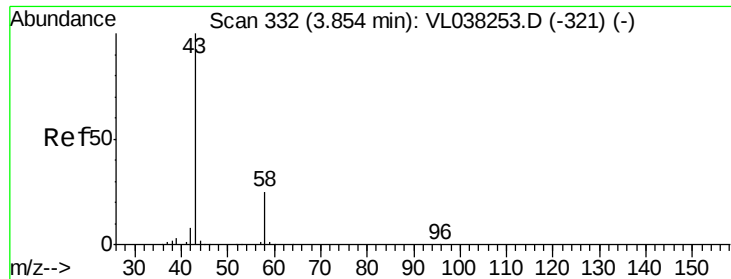
Tgt Ion: 101 Resp: 14797
 Ion Ratio Lower Upper
 101 100
 103 64.1 51.2 76.8



#13
 Ethanol
 Concen: 1026.496 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. -0.02 min
 Lab File: VL038308.D
 Acq: 27 Jan 2022 22:33

Tgt Ion: 45 Resp: 5666173
 Ion Ratio Lower Upper
 45 100
 46 37.2 15.4 61.6





#15

Acetone

Concen: 6.251 ppbv

RT: 3.85

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

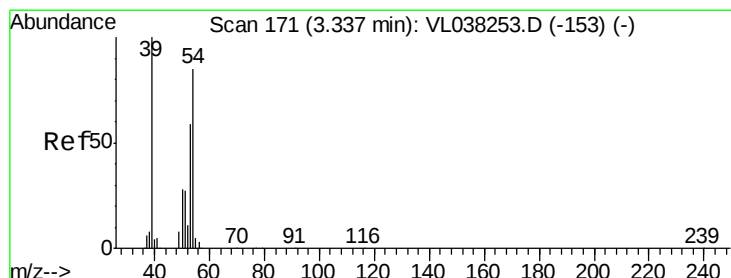
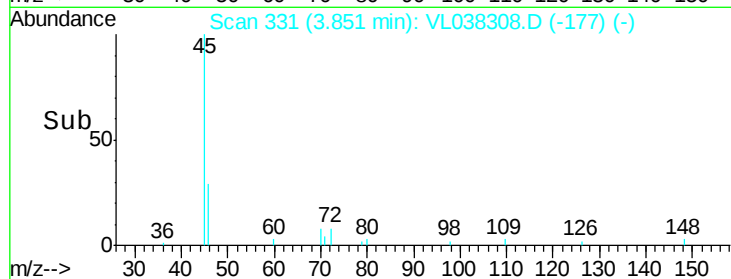
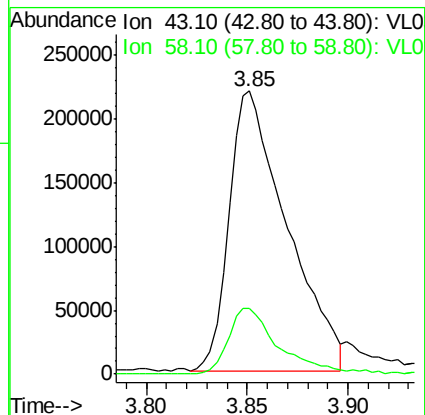
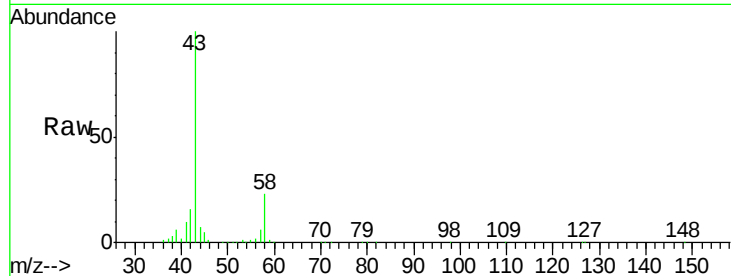
Acq: 27 Jan 2022 22:33

Tgt Ion: 43 Resp: 437219

Ion Ratio Lower Upper

43 100

58 21.1 21.5 32.3#



#16

1,3-Butadiene

Concen: 4.766 ppbv

RT: 3.35 min Scan# 175

Delta R.T. 0.01 min

Lab File: VL038308.D

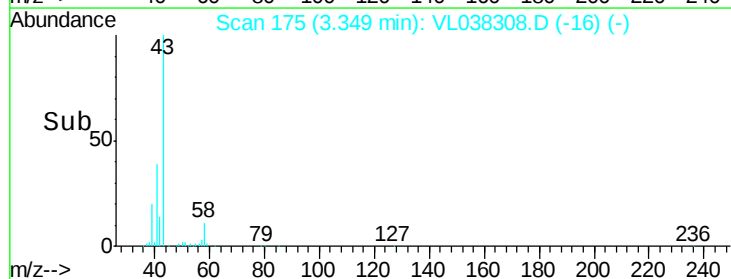
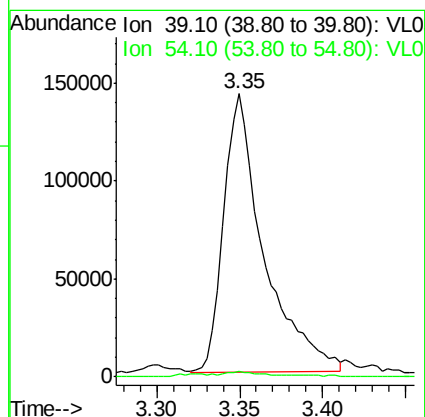
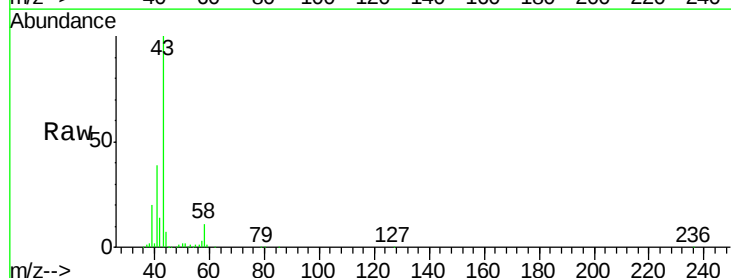
Acq: 27 Jan 2022 22:33

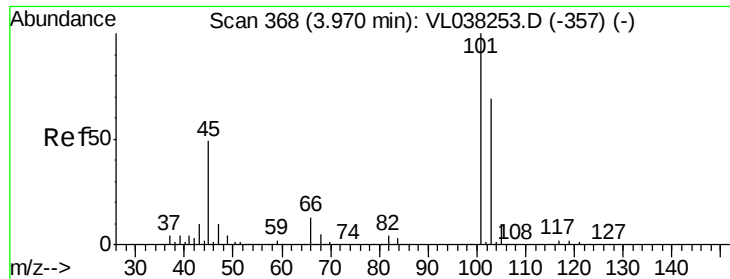
Tgt Ion: 39 Resp: 239236

Ion Ratio Lower Upper

39 100

54 3.5 62.6 94.0#





#19

Isopropyl Alcohol

Concen: 7.106 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

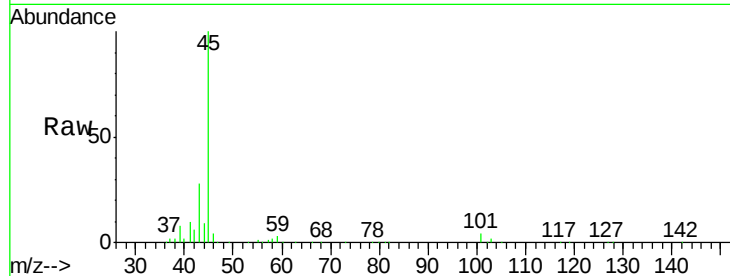
Acq: 27 Jan 2022 22:33

Tgt Ion: 45 Resp: 310916

Ion Ratio Lower Upper

45 100

58 2.6 2.3 3.5



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.97

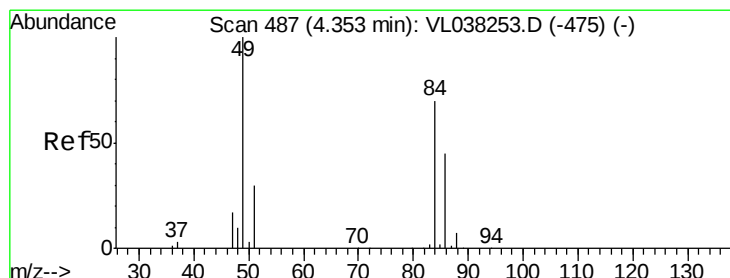
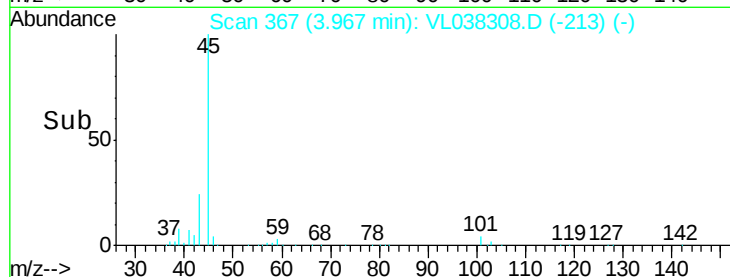
150000

100000

50000

0

Time-->



#20

Methylene Chloride

Concen: 1.534 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL038308.D

Acq: 27 Jan 2022 22:33

Tgt Ion: 84 Resp: 62398

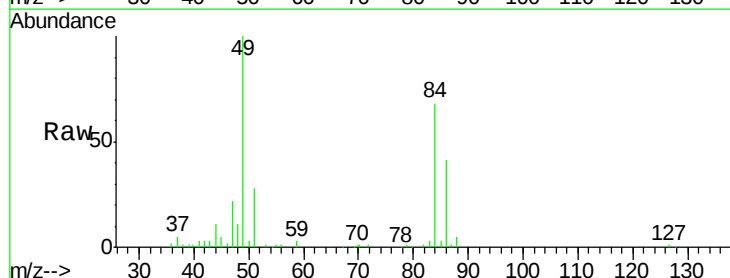
Ion Ratio Lower Upper

84 100

49 144.3 115.0 172.6

51 40.0 35.0 52.6

86 58.5 51.4 77.0



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

4.34

80000

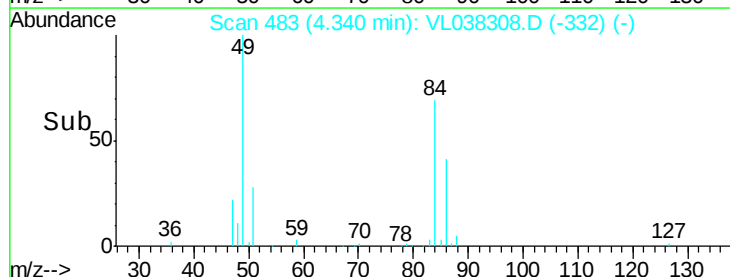
60000

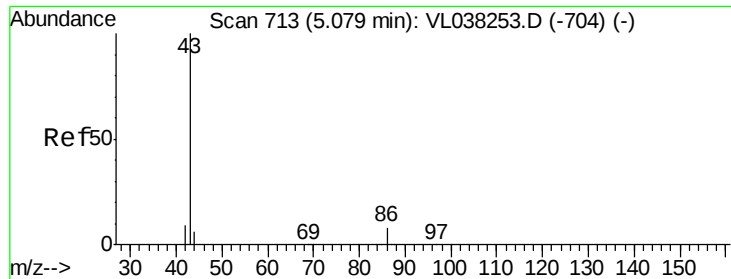
40000

20000

0

Time-->





#23

Vinyl Acetate

Concen: 0.258 ppbv

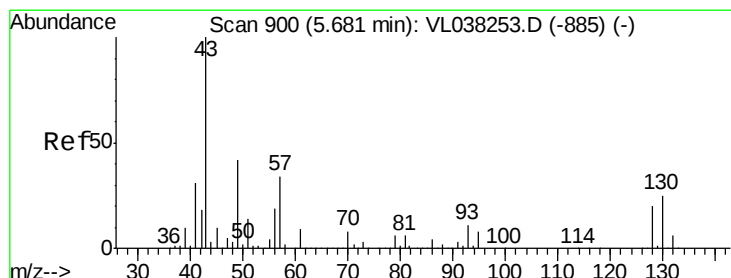
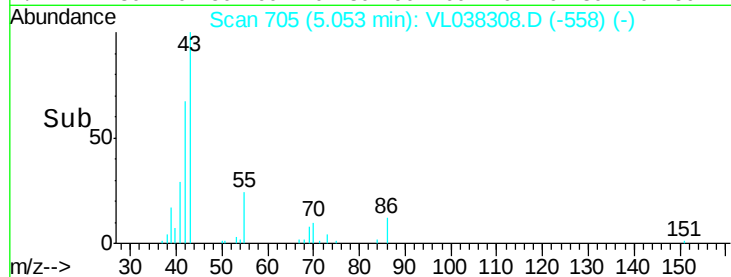
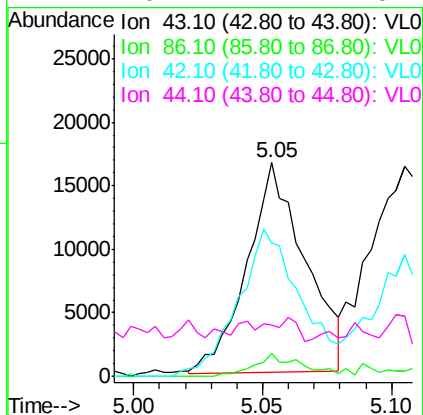
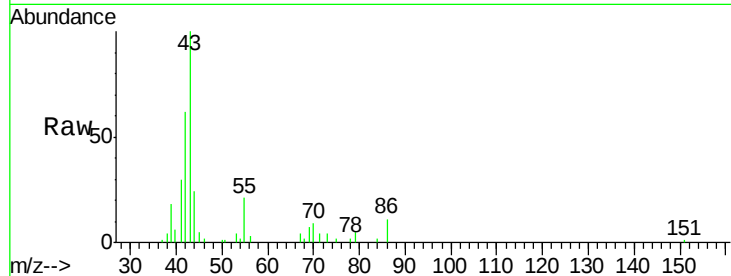
RT: 5.05 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA-20

Acq: 27 Jan 2022 22:33

Tgt Ion:	43	Resp:	26199
Ion	Ratio	Lower	Upper
43	100		
86	11.1	5.7	8.5#
42	57.6	7.7	11.5#
44	6.1	4.2	6.4



#25

Ethyl Acetate

Concen: 0.359 ppbv

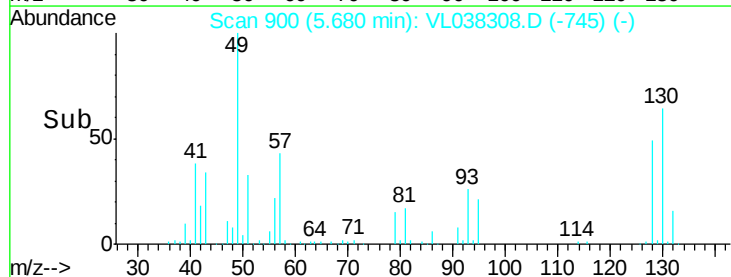
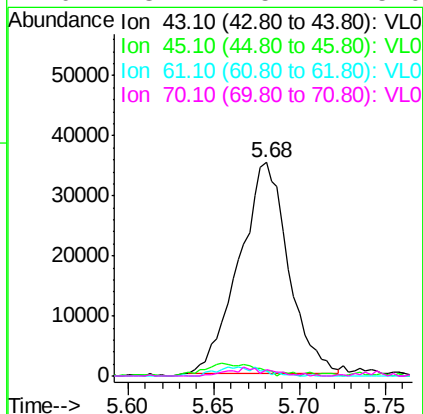
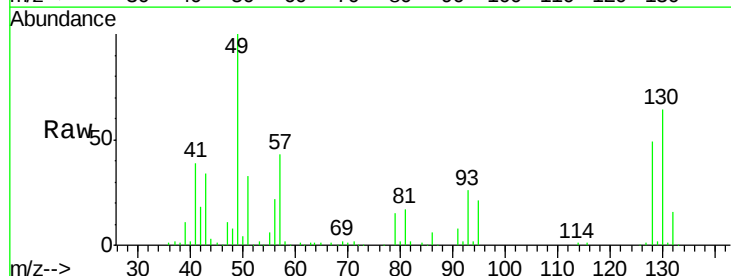
RT: 5.68 min Scan# 900

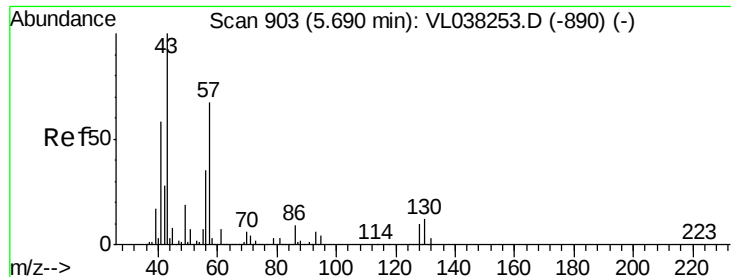
Delta R.T. -0.00 min

Lab File: VL038308.D

Acq: 27 Jan 2022 22:33

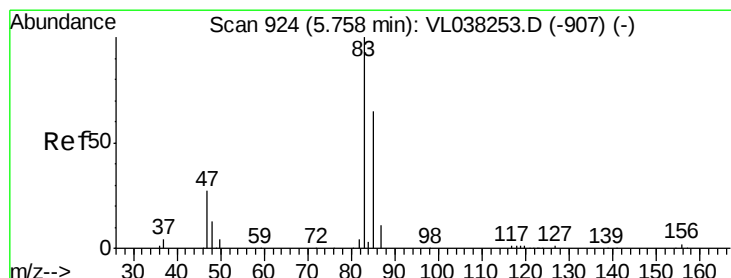
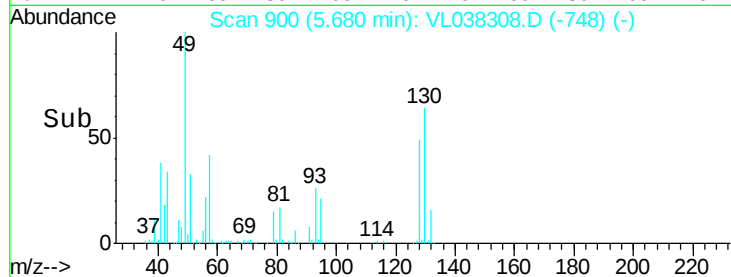
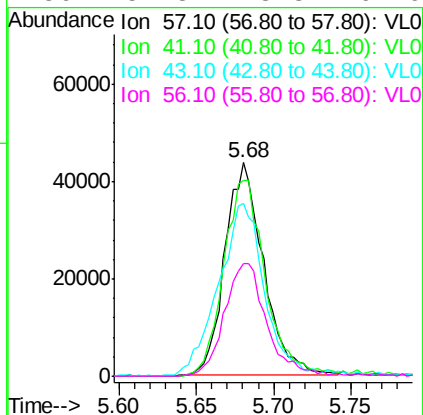
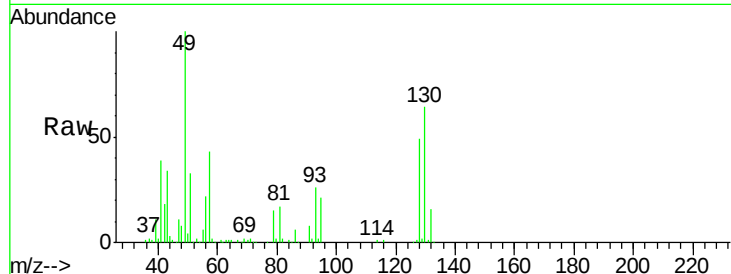
Tgt Ion:	43	Resp:	70258
Ion	Ratio	Lower	Upper
43	100		
45	6.3	7.9	11.9#
61	4.1	7.8	11.8#
70	3.4	5.4	8.0#





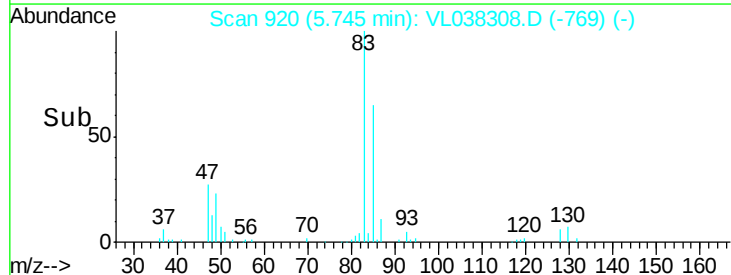
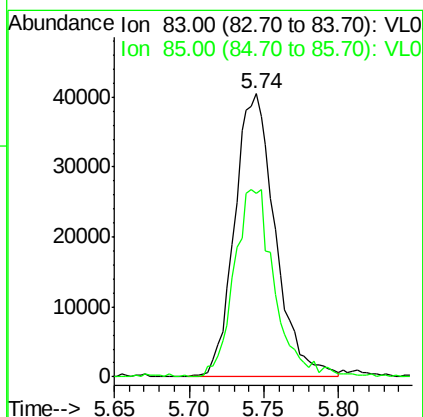
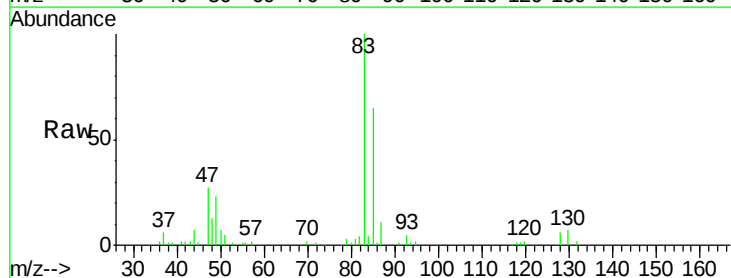
#26
Hexane
Concen: 0.831 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Jan 2022 22:33

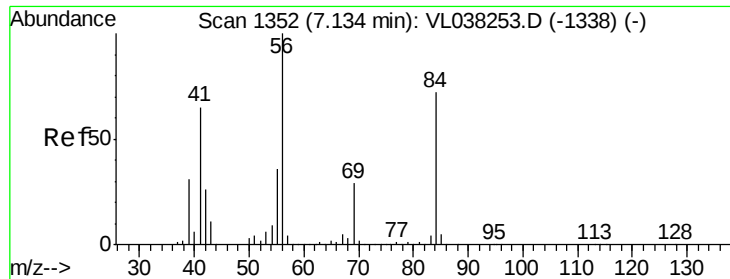
Tgt Ion:	57	Resp:	75666
Ion	Ratio	Lower	Upper
57	100		
41	100.6	72.8	109.2
43	98.7	177.0	265.6#
56	57.8	43.3	64.9



#29
Chloroform
Concen: 0.514 ppbv
RT: 5.74 min Scan# 920
Delta R.T. -0.01 min
Lab File: VL038308.D
Acq: 27 Jan 2022 22:33

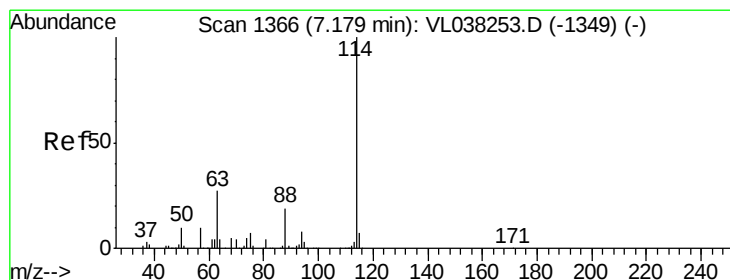
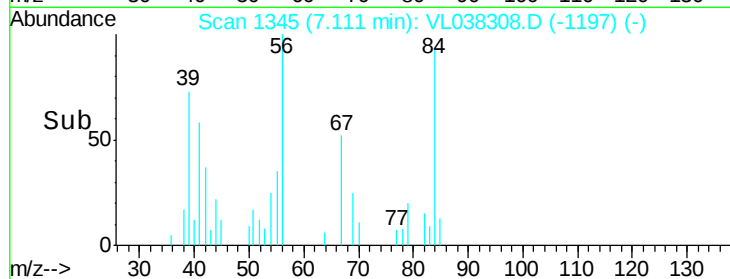
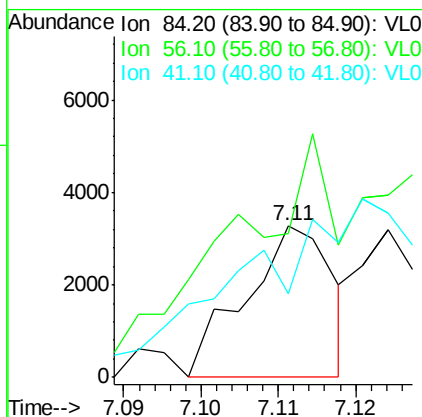
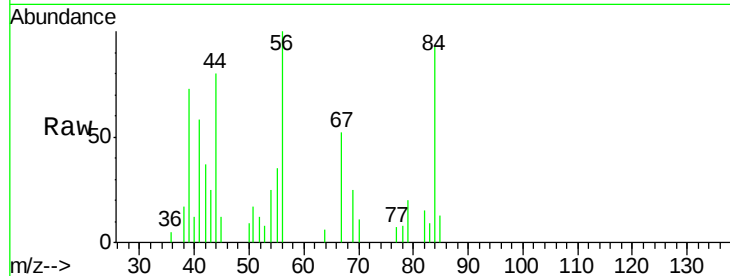
Tgt Ion:	83	Resp:	76424
Ion	Ratio	Lower	Upper
83	100		
85	64.9	51.9	77.9





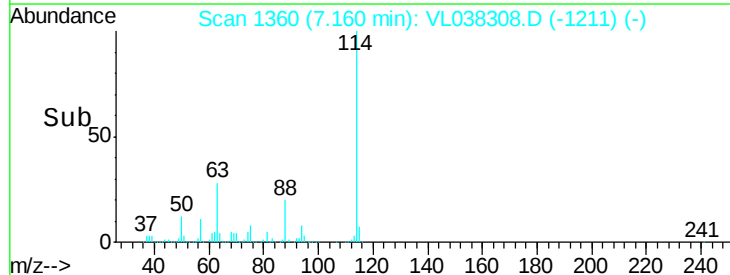
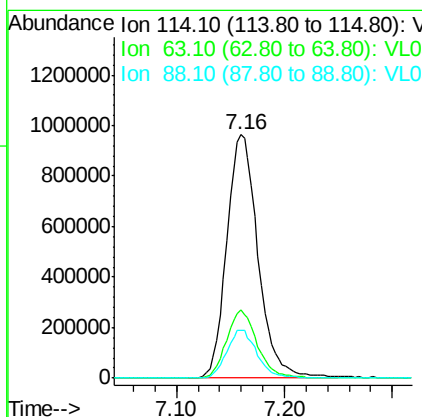
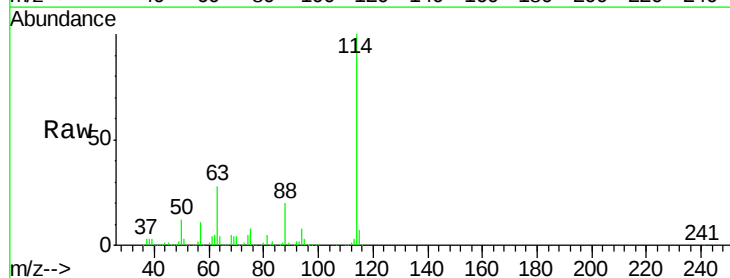
#30
Cyclohexane
Concen: 0.032 ppbv
RT: 7.11 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Jan 2022 22:33

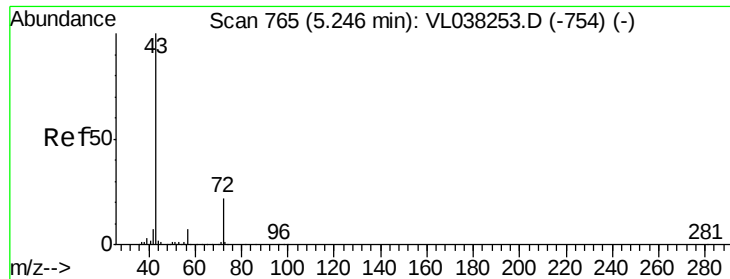
Tgt Ion: 84 Resp: 2562
Ion Ratio Lower Upper
84 100
56 0.0 112.7 169.1#
41 0.0 71.1 106.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.02 min
Lab File: VL038308.D
Acq: 27 Jan 2022 22:33

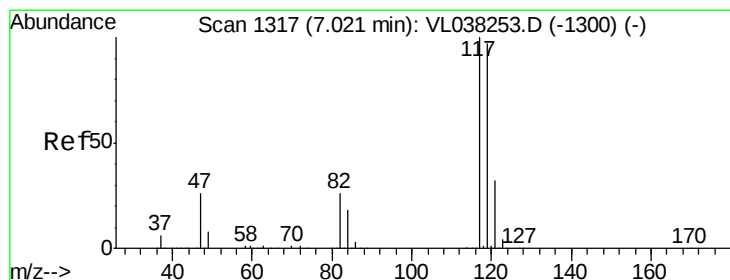
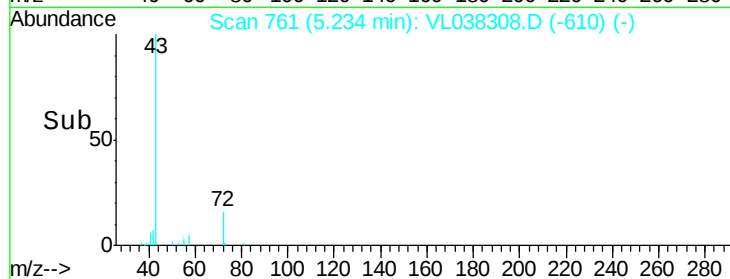
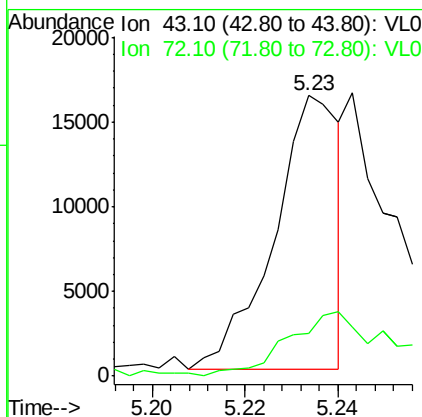
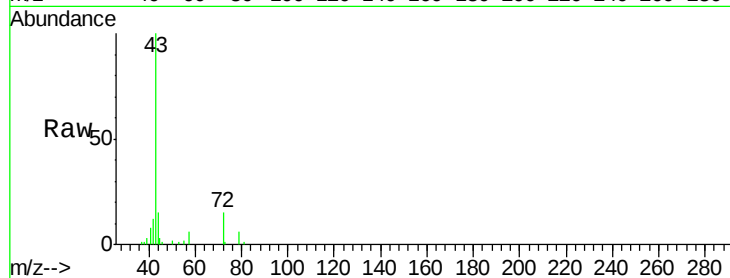
Tgt Ion: 114 Resp: 1947764
Ion Ratio Lower Upper
114 100
63 27.5 22.0 33.0
88 19.0 15.0 22.6





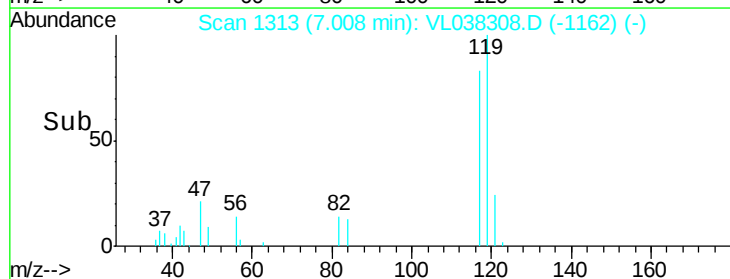
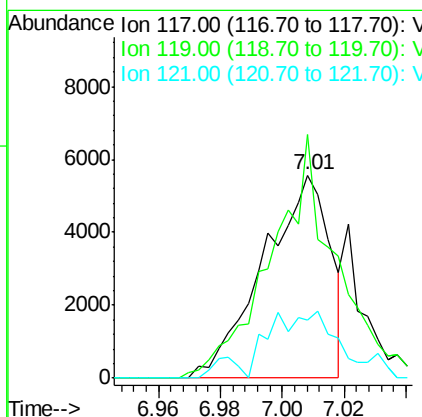
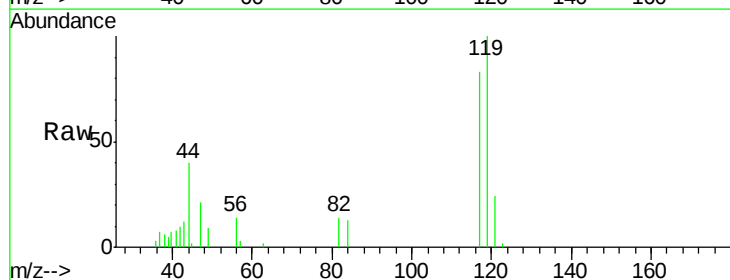
#34
 2-Butanone
 Concen: 0.248 ppbv
 RT: 5.23
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Jan 2022 22:33

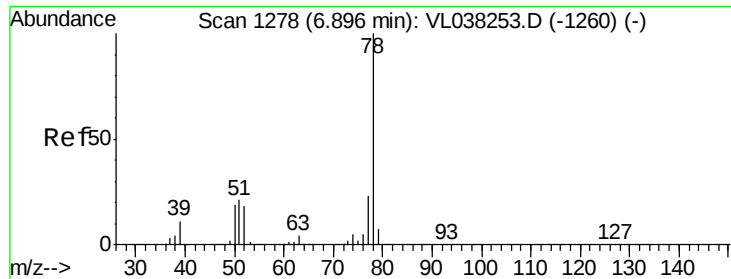
Tgt Ion: 43 Resp: 15813
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.1 27.1#



#35
 Carbon Tetrachloride
 Concen: 0.061 ppbv
 RT: 7.01 min Scan# 1313
 Delta R.T. -0.01 min
 Lab File: VL038308.D
 Acq: 27 Jan 2022 22:33

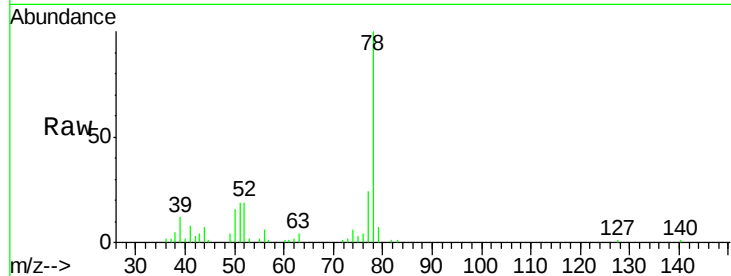
Tgt Ion: 117 Resp: 8340
 Ion Ratio Lower Upper
 117 100
 119 116.9 77.9 116.9#
 121 28.7 25.4 38.2



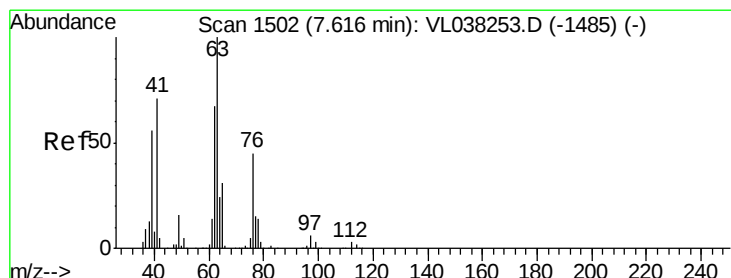
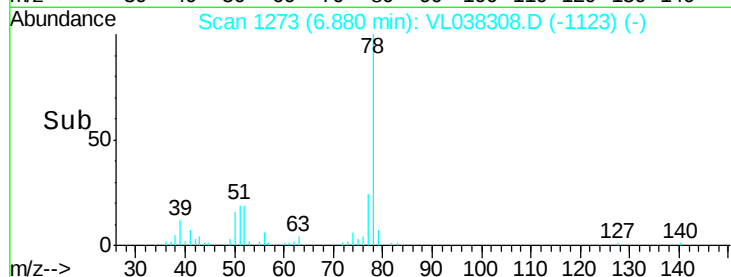
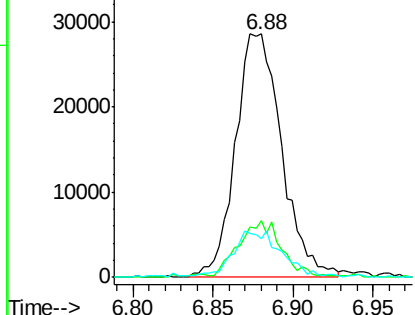


#36
Benzene
Concen: 0.327 ppbv
RT: 6.88
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Jan 2022 22:33

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.0	18.2	27.2
50	14.9	15.1	22.7#

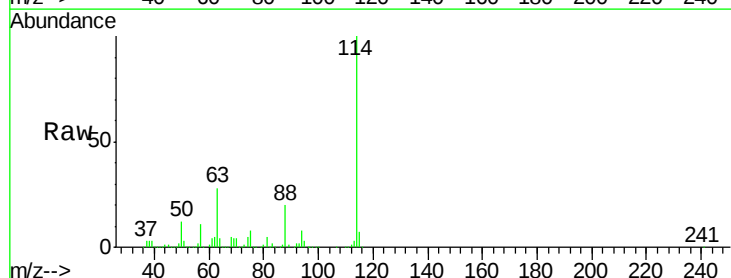


Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0

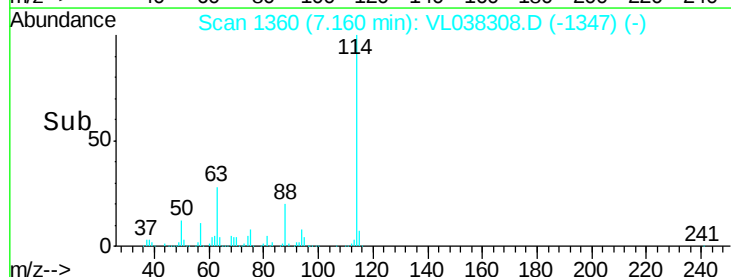
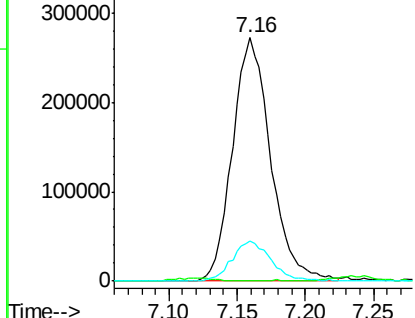


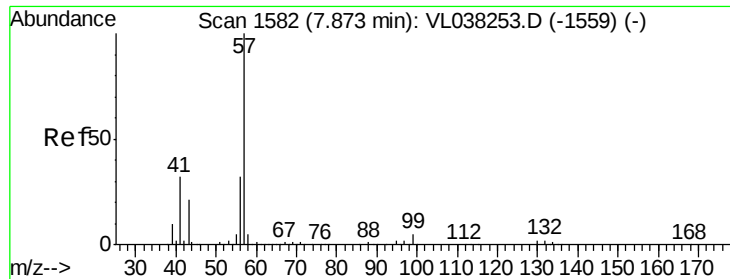
#39
1,2-Dichloropropane
Concen: 7.584 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.46 min
Lab File: VL038308.D
Acq: 27 Jan 2022 22:33

Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	56.6	85.0#
62	16.5	53.9	80.9#



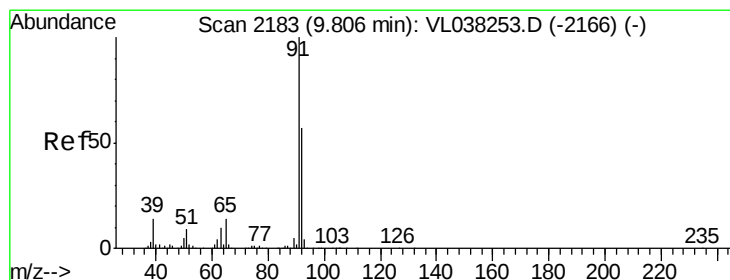
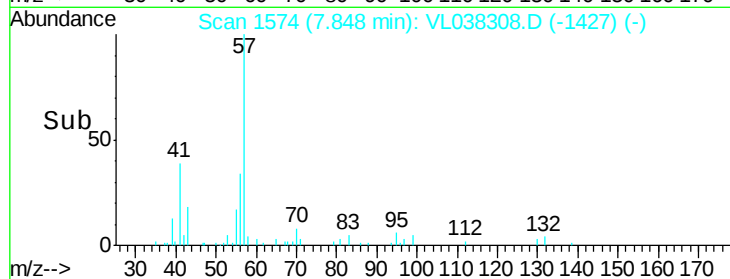
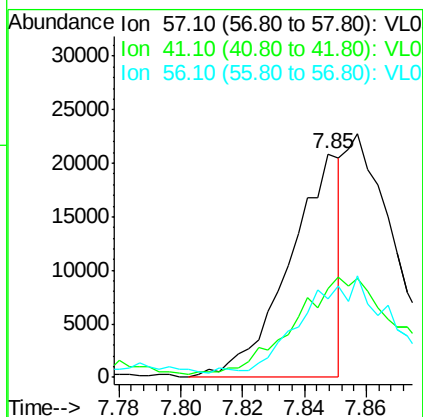
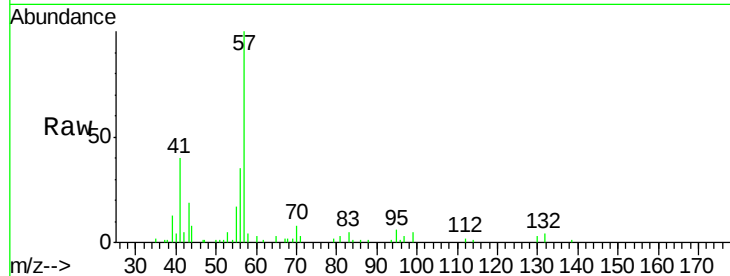
Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0





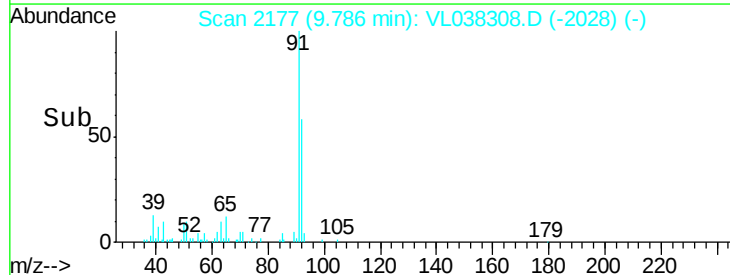
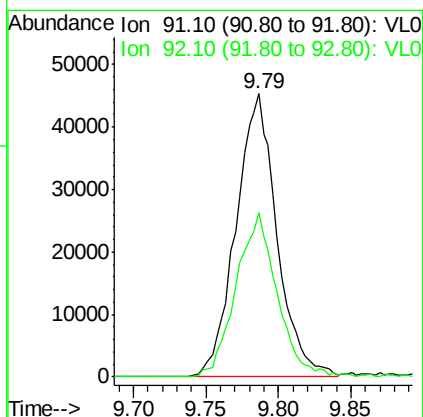
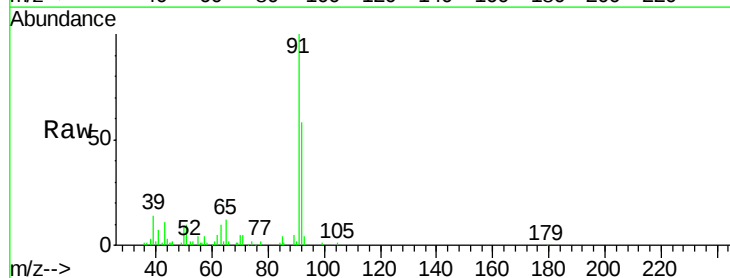
#44
 2,2,4-Trimethylpentane
 Concen: 0.079 ppbv
 RT: 7.85
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Jan 2022 22:33

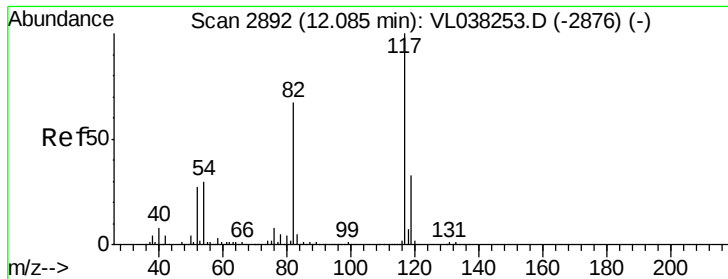
Tgt Ion: 57 Resp: 23971
 Ion Ratio Lower Upper
 57 100
 41 93.6 26.3 39.5#
 56 0.0 25.2 37.8#



#53
 Toluene
 Concen: 0.467 ppbv
 RT: 9.79 min Scan# 2177
 Delta R.T. -0.02 min
 Lab File: VL038308.D
 Acq: 27 Jan 2022 22:33

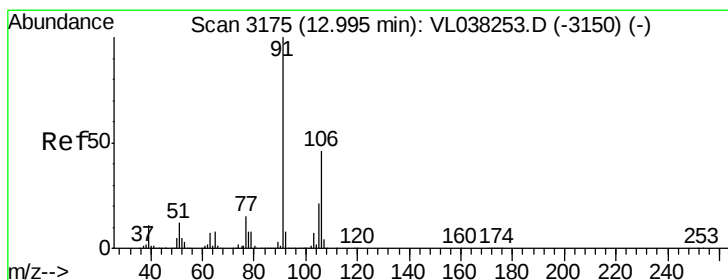
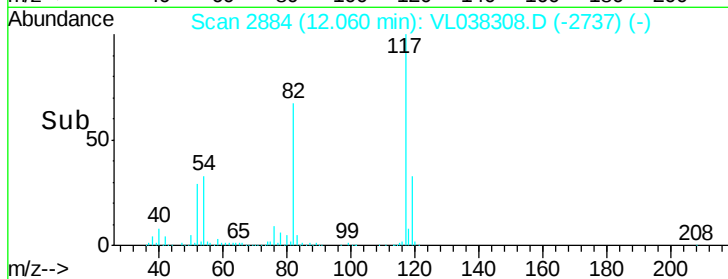
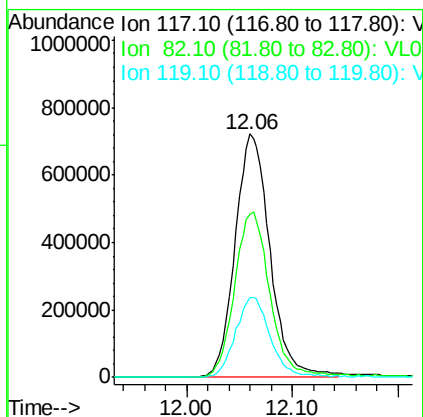
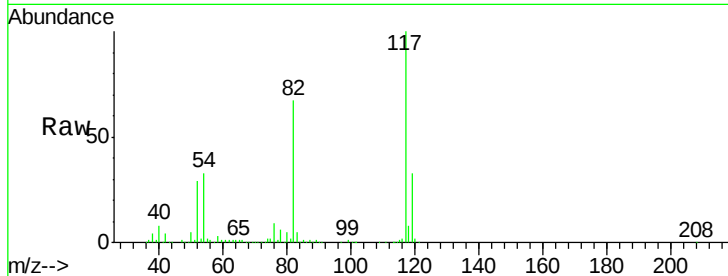
Tgt Ion: 91 Resp: 89002
 Ion Ratio Lower Upper
 91 100
 92 58.4 47.4 71.0





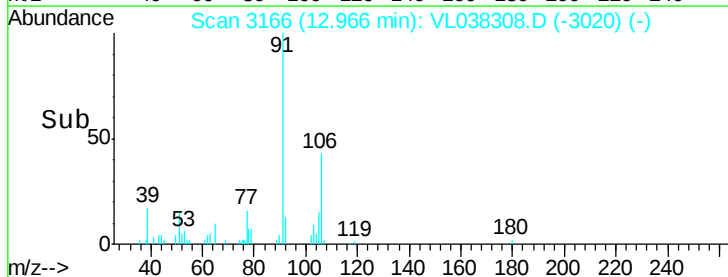
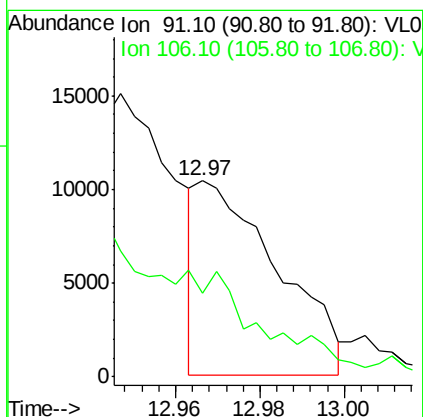
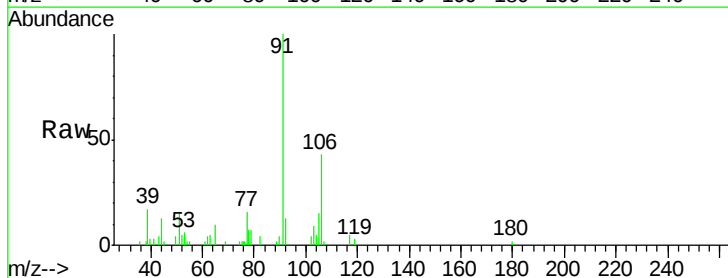
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 27 Jan 2022 22:33

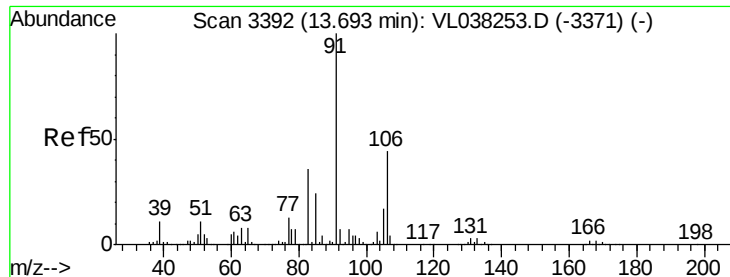
Tgt Ion: 117 Resp: 1659901
Ion Ratio Lower Upper
117 100
82 70.3 54.4 81.6
119 33.3 45.9 68.9



#59
m/p-Xylene
Concen: 0.066 ppbv
RT: 12.97 min Scan# 3166
Delta R.T.: -0.03 min
Lab File: VL038308.D
Acq: 27 Jan 2022 22:33

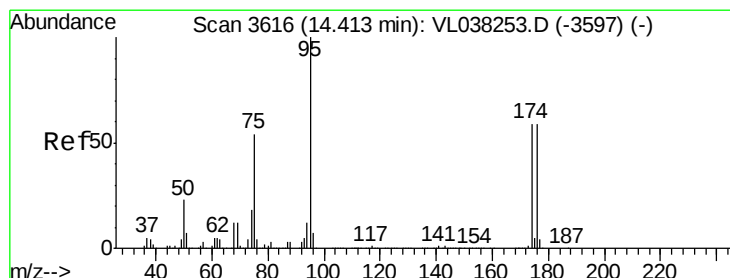
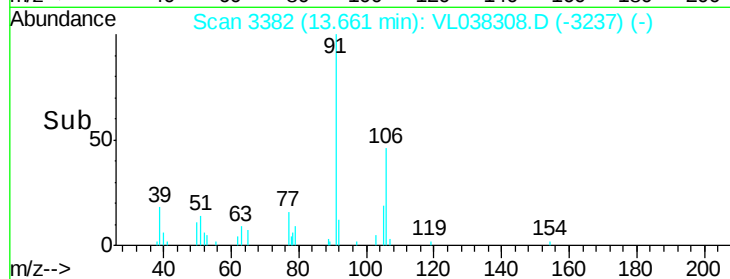
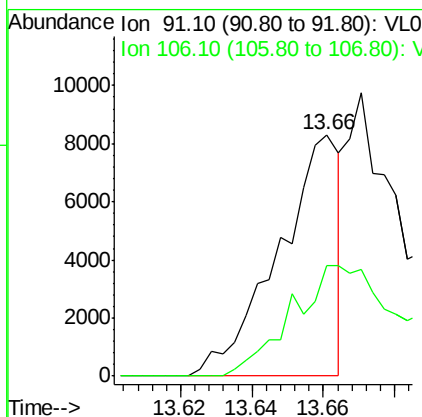
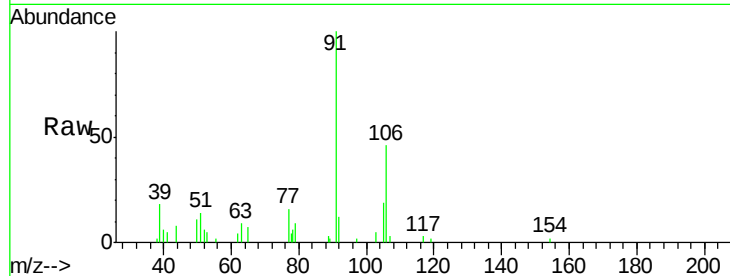
Tgt Ion: 91 Resp: 13698
Ion Ratio Lower Upper
91 100
106 0.0 34.8 52.2





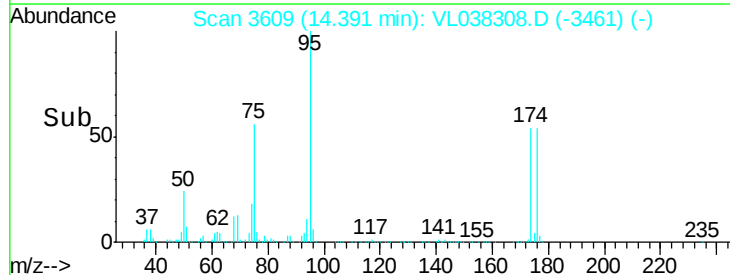
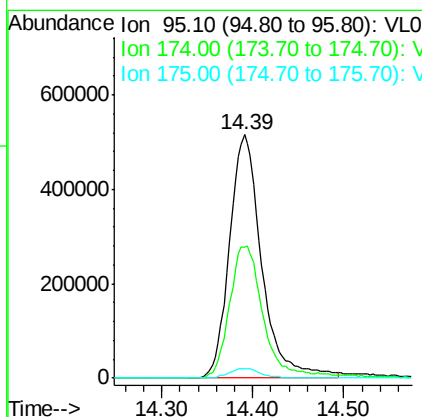
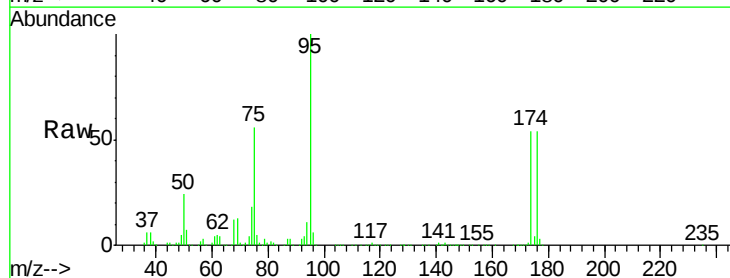
#60
o-Xylene
Concen: 0.051 ppbv
RT: 13.66
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Jan 2022 22:33

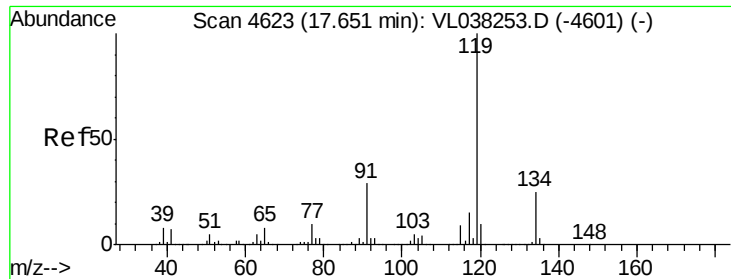
Tgt Ion: 91 Resp: 9895
Ion Ratio Lower Upper
91 100
106 84.3 22.2 66.6#



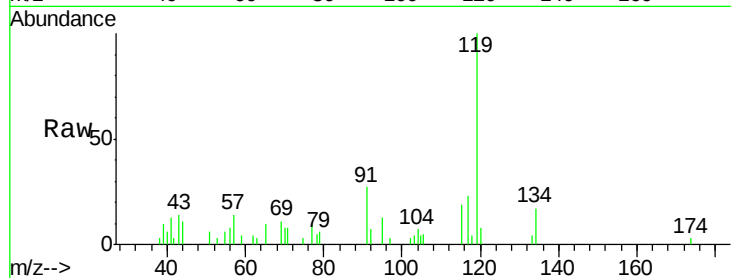
#68
1-Bromo-4-Fluorobenzene
Concen: 10.080 ppbv
RT: 14.39 min Scan# 3609
Delta R.T. -0.02 min
Lab File: VL038308.D
Acq: 27 Jan 2022 22:33

Tgt Ion: 95 Resp: 1269989
Ion Ratio Lower Upper
95 100
174 58.5 48.3 72.5
175 4.1 3.5 5.3





#69
 p-Isopropyltoluene
 Concen: 0.037 ppbv
 RT: 17.63
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Jan 2022 22:33



Tgt Ion:	119	Resp:	8288
Ion	Ratio	Lower	Upper
119	100		
134	44.4	20.2	30.2#
91	65.1	23.2	34.8#

