

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052322\
 Data File : VL039089.D
 Acq On : 23 May 2022 18:23
 Operator : SY/AP
 Sample : N2956-01
 Misc : 400mL/MSVOA L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AP-1

Quant Time: May 24 05:59:42 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 05 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	988363	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.16	114	2171684	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.06	117	1810191	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1541856	10.76	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.60%

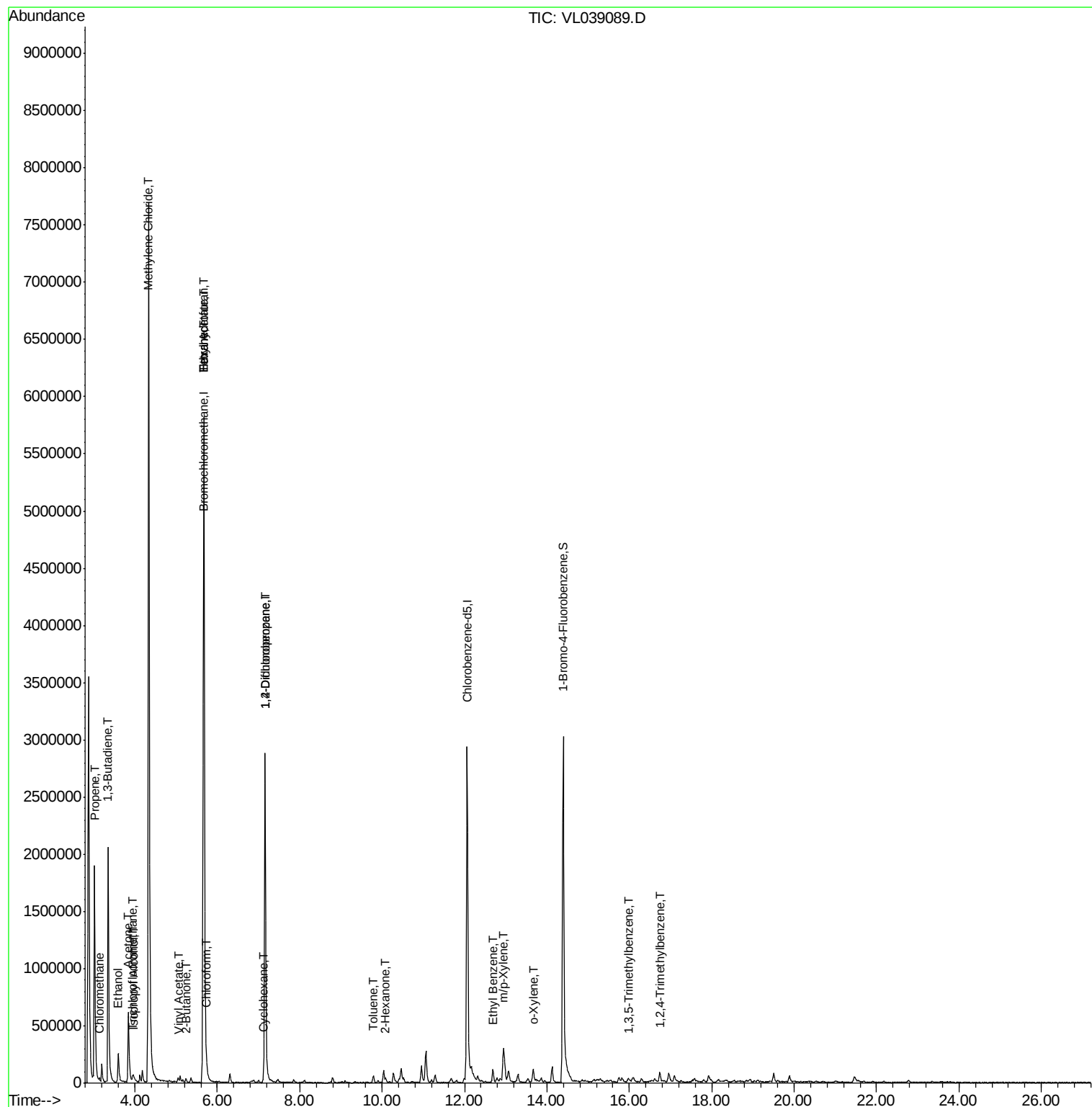
Target Compounds					Ovalue
4) Chloromethane	3.14	50	27602	0.449	ppbv 92
9) Propene	3.02	41	454110	8.479	ppbv # 55
11) Trichlorofluoromethane	3.94	101	32453	0.244	ppbv 97
13) Ethanol	3.60	45	144260	38.061	ppbv # 31
15) Acetone	3.84	43	771300	8.273	ppbv 98
16) 1,3-Butadiene	3.35	39	325740	6.081	ppbv # 10
19) Isopropyl Alcohol	3.96	45	9831	0.222	ppbv # 95
20) Methylene Chloride	4.33	84	3390705	96.494	ppbv 98
23) Vinyl Acetate	5.07	43	4528	0.061	ppbv # 74
25) Ethyl Acetate	5.67	43	1661660	7.446	ppbv # 77
26) Hexane	5.67	57	2391752	24.123	ppbv # 38
29) Chloroform	5.74	83	6533	0.041	ppbv # 82
30) Cyclohexane	7.11	84	3965	0.048	ppbv # 1
34) 2-Butanone	5.23	43	19298	0.174	ppbv # 38
39) 1,2-Dichloropropane	7.16	63	618899	8.559	ppbv # 27
41) Tetrahydrofuran	5.67	42	865421	11.622	ppbv # 50
51) 2-Hexanone	10.09	43	7530	0.053	ppbv # 28
53) Toluene	9.79	91	25622	0.123	ppbv # 51
58) Ethyl Benzene	12.69	91	52854	0.203	ppbv 91
59) m/p-Xylene	12.95	91	192816	0.867	ppbv # 33
60) o-Xylene	13.66	91	33464	0.160	ppbv # 7
73) 1,3,5-Trimethylbenzene	15.97	105	11214	0.052	ppbv # 72
74) 1,2,4-Trimethylbenzene	16.73	105	33995	0.145	ppbv # 58

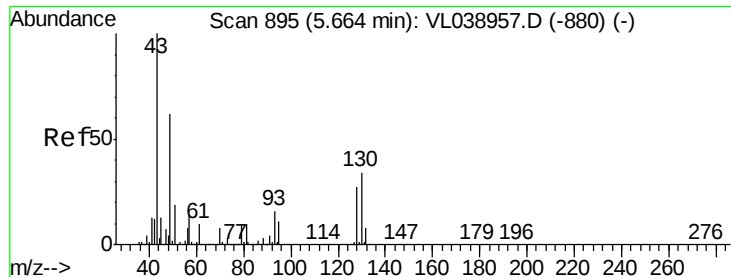
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. AP-1

Lab File: ClientSampleId :

Acq: 23 May 2022 18:23

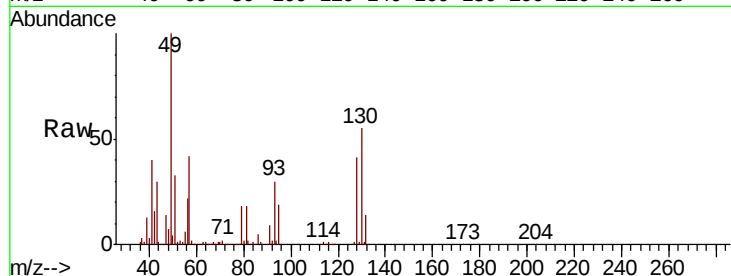
Tot Ion: 49 Resp: 988363

Ion Ratio Lower Upper

49 100

128 45.6 23.3 69.8

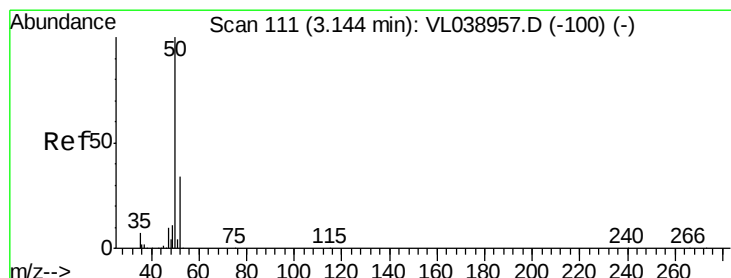
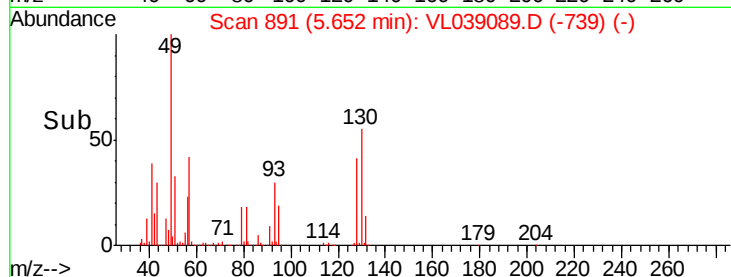
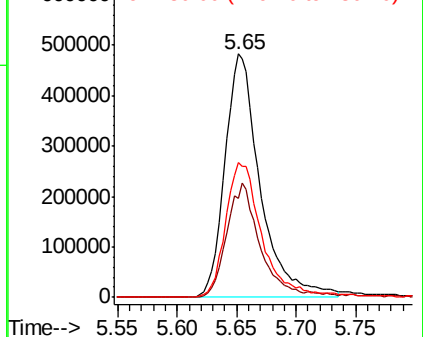
130 59.1 29.8 89.3



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



#4

Chloromethane

Concen: 0.449 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL039089.D

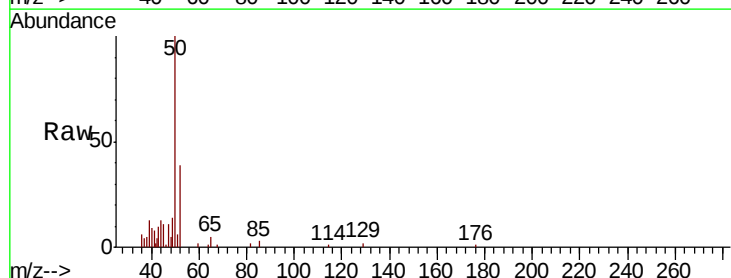
Acq: 23 May 2022 18:23

Tgt Ion: 50 Resp: 27602

Ion Ratio Lower Upper

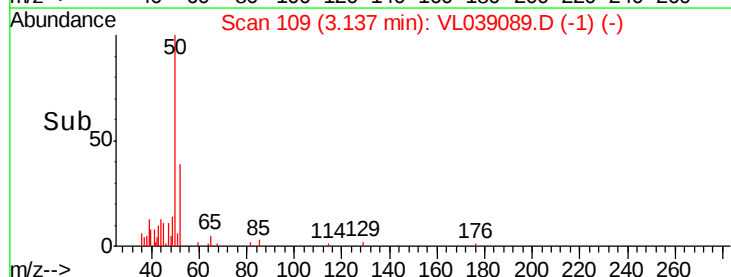
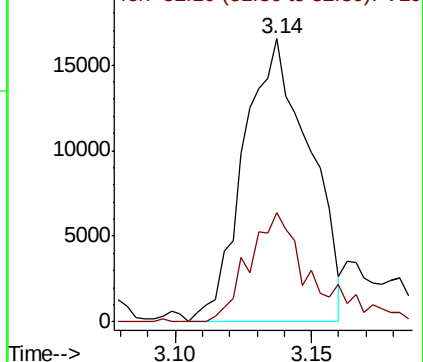
50 100

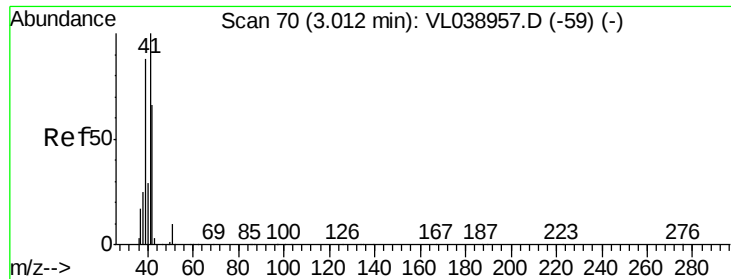
52 38.5 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 8.479 ppbv

RT: 3.02 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

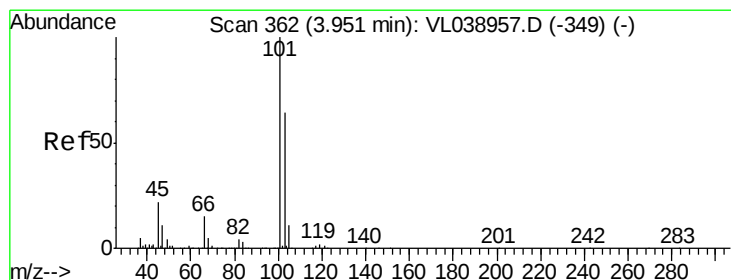
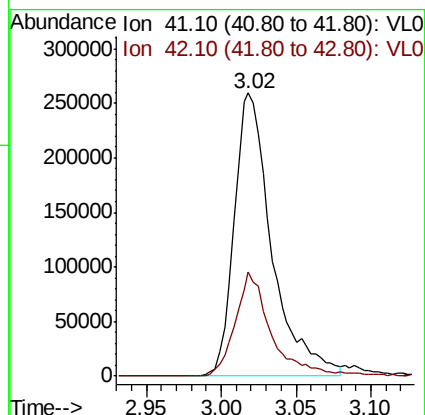
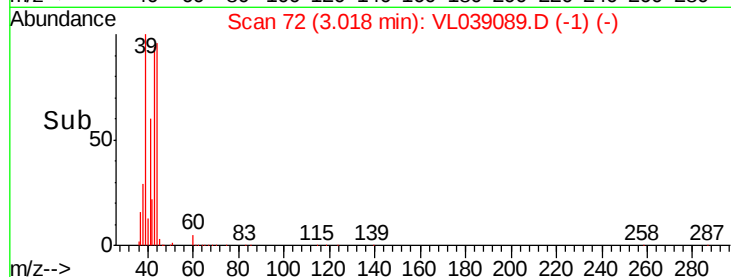
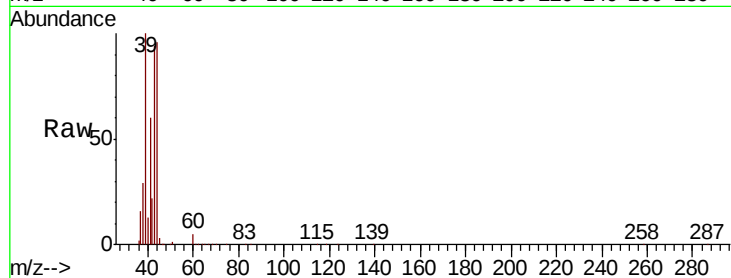
Acq: 23 May 2022 18:23

Tot Ion: 41 Resp: 454110

Ion Ratio Lower Upper

41 100

42 35.5 58.3 87.5#



#11

Trichlorofluoromethane

Concen: 0.244 ppbv

RT: 3.94 min Scan# 359

Delta R.T. -0.01 min

Lab File: VL039089.D

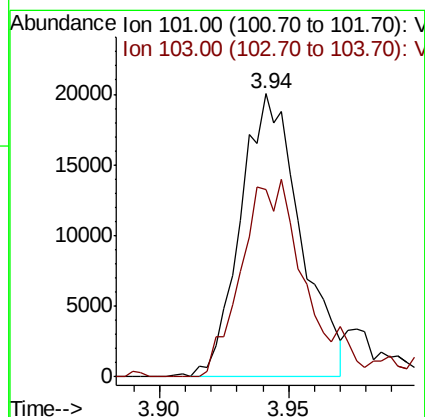
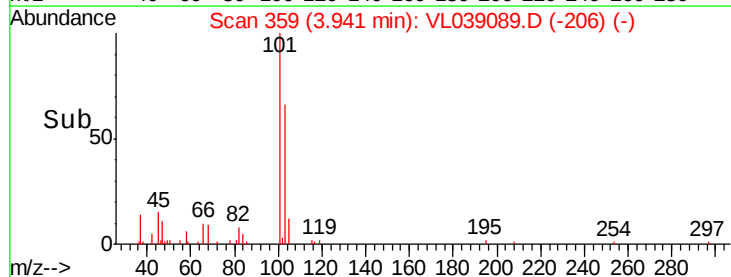
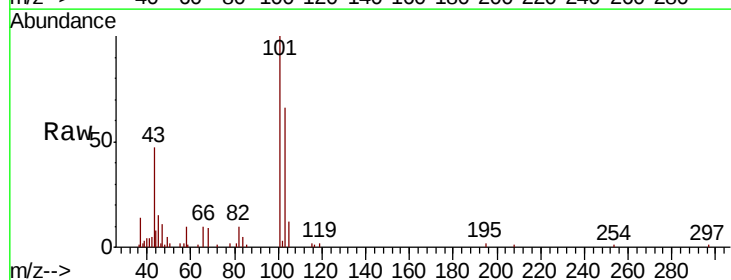
Acq: 23 May 2022 18:23

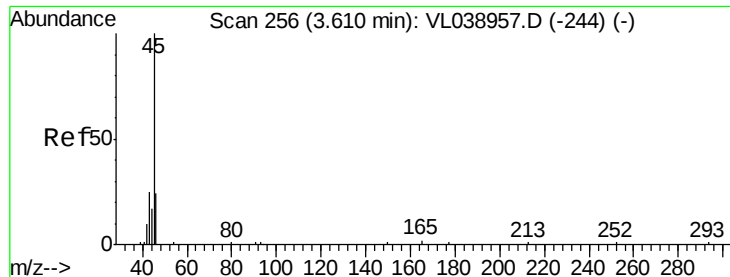
Tgt Ion: 101 Resp: 32453

Ion Ratio Lower Upper

101 100

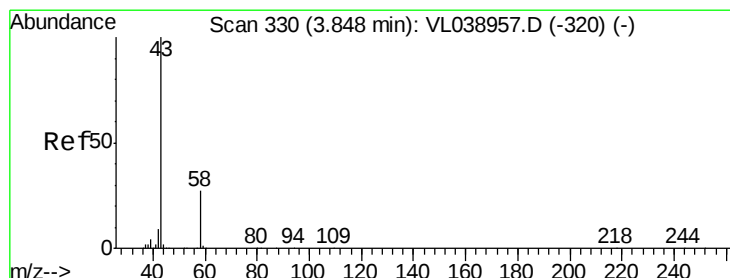
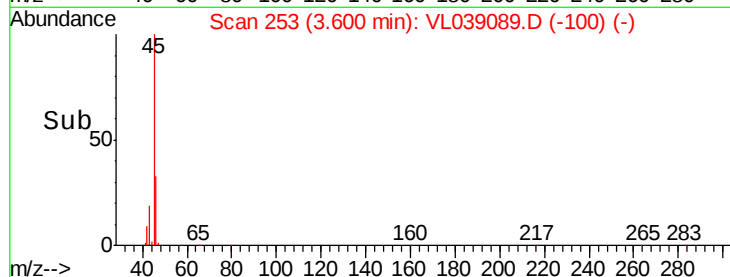
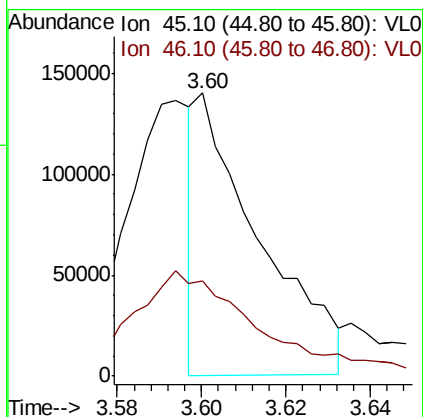
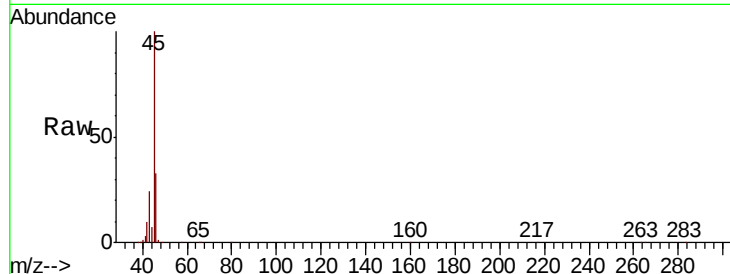
103 66.4 51.5 77.3





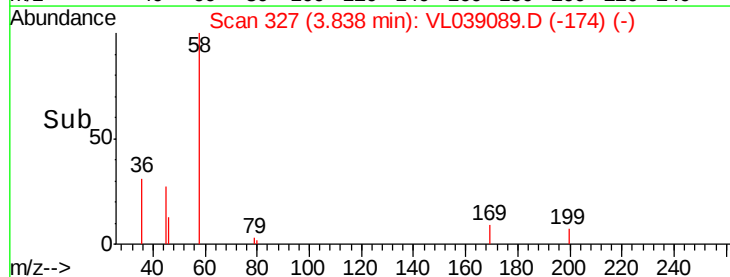
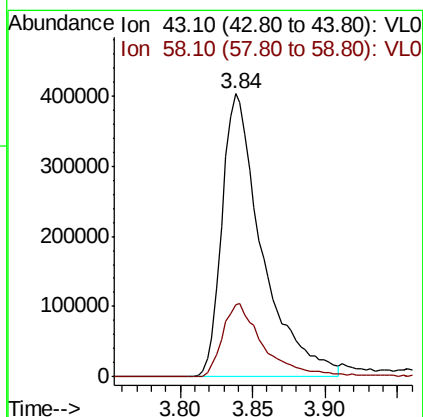
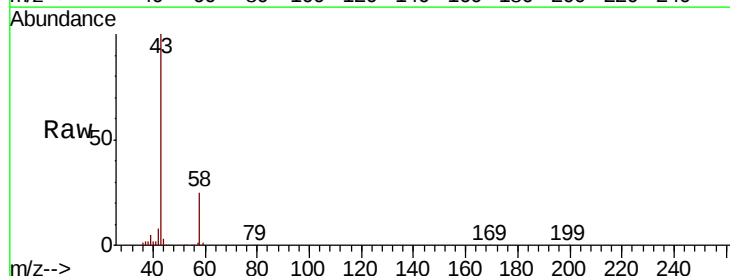
#13
Ethanol
Concen: 38.061 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 May 2022 18:23

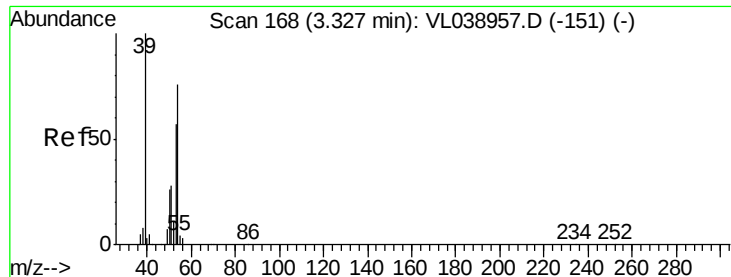
Tot Ion: 45 Resp: 144260
Ion Ratio Lower Upper
45 100
46 0.0 18.0 72.2#



#15
Acetone
Concen: 8.273 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.01 min
Lab File: VL039089.D
Acq: 23 May 2022 18:23

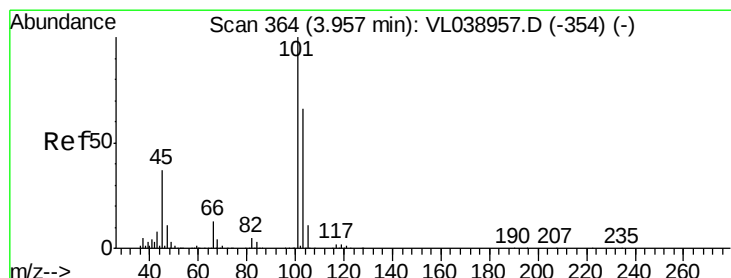
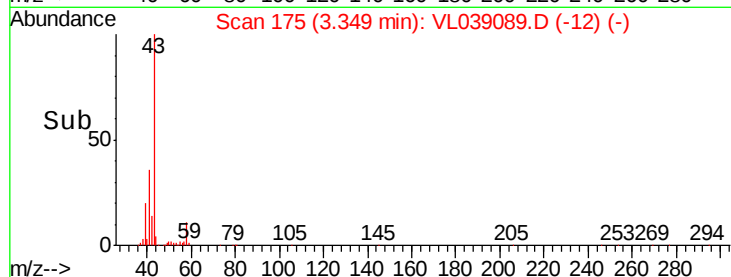
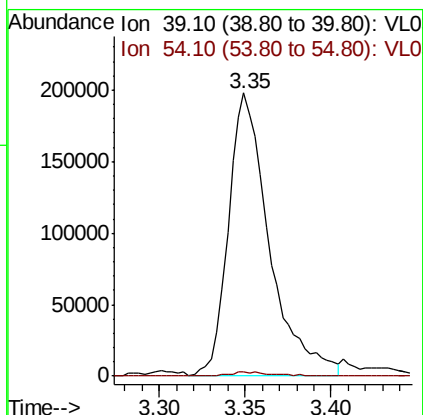
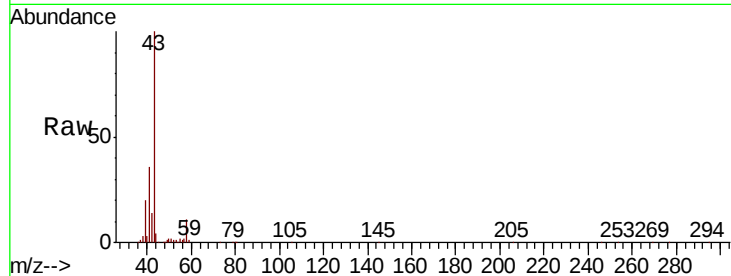
Tgt Ion: 43 Resp: 771300
Ion Ratio Lower Upper
43 100
58 27.9 21.3 31.9





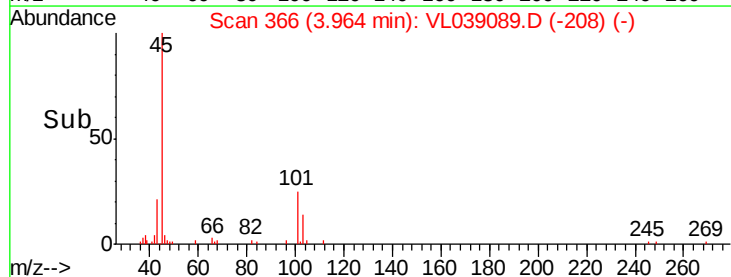
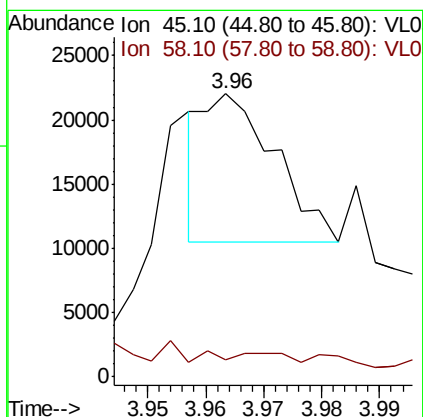
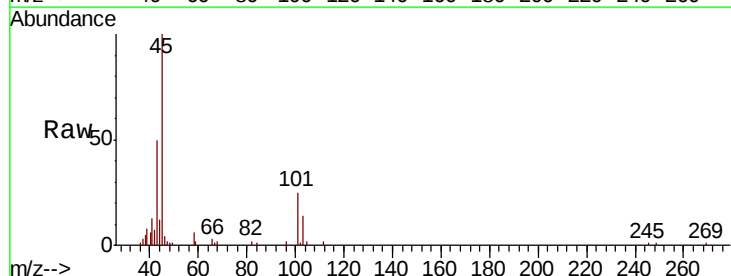
#16
 1,3-Butadiene
 Concen: 6.081 ppbv
 RT: 3.35
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 AP-1
 Acq: 23 May 2022 18:23

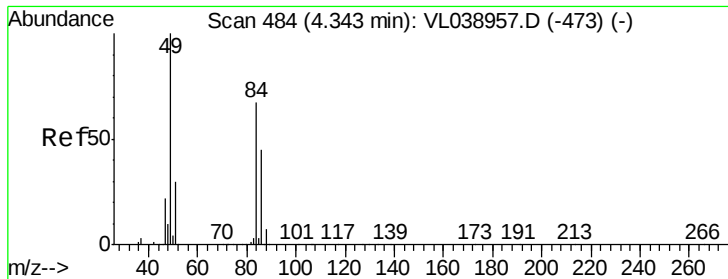
Tot Ion: 39 Resp: 325740
 Ion Ratio Lower Upper
 39 100
 54 1.6 65.2 97.8#



#19
 Isopropyl Alcohol
 Concen: 0.222 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. 0.01 min
 Lab File: VL039089.D
 Acq: 23 May 2022 18:23

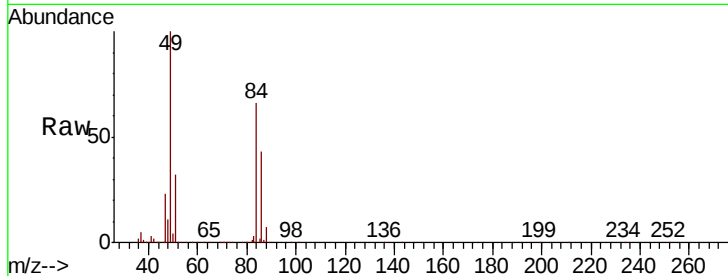
Tgt Ion: 45 Resp: 9831
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.4 2.2#



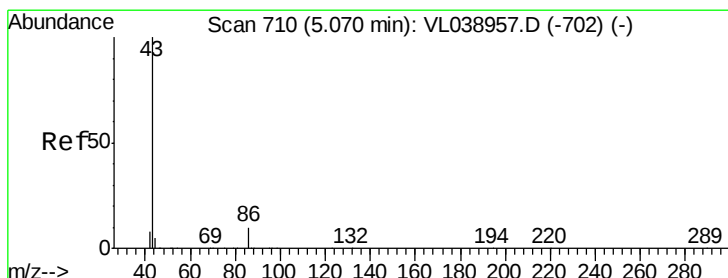
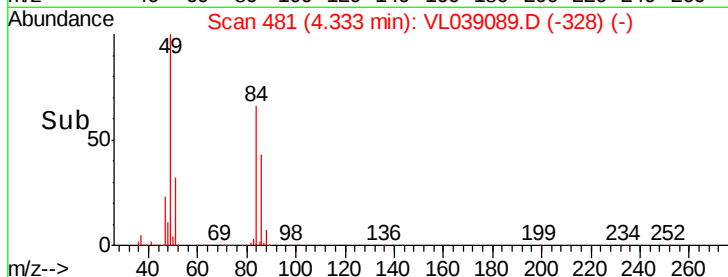
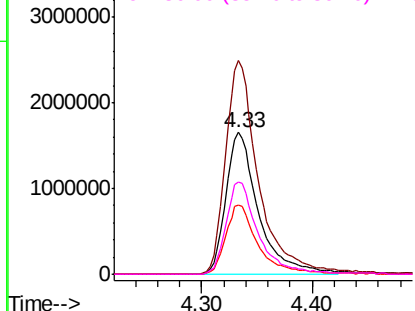


#20
Methvlene Chloride
Concen: 96.494 ppbv
RT: 4.33
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 23 May 2022 18:23

Tot Ion:	84	Resp:	3390705
Ion	Ratio	Lower	Upper
84	100		
49	150.4	119.9	179.9
51	48.5	35.7	53.5
86	64.8	53.8	80.6

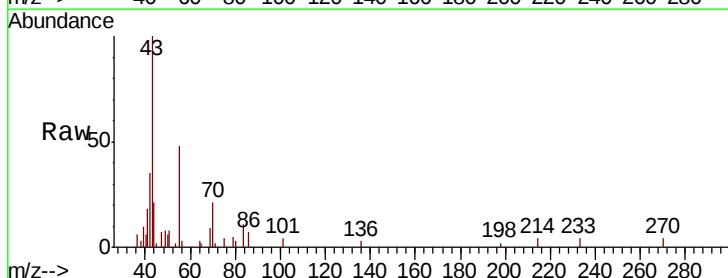


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

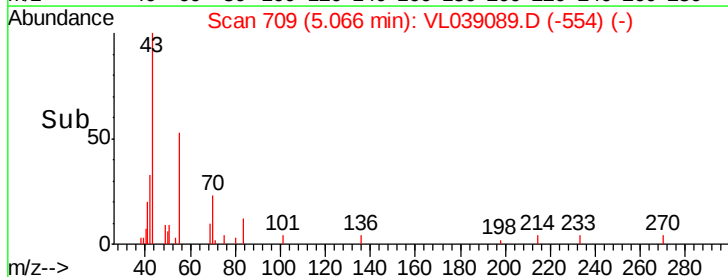
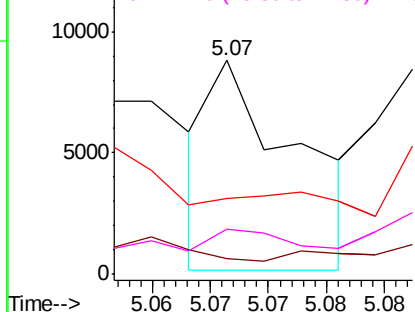


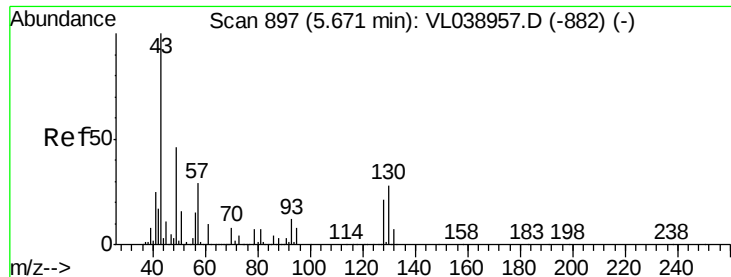
#23
Vinyl Acetate
Concen: 0.061 ppbv
RT: 5.07 min Scan# 709
Delta R.T. -0.00 min
Lab File: VL039089.D
Acq: 23 May 2022 18:23

Tgt Ion:	43	Resp:	4528
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.6	9.8#
42	7.6	8.1	12.1#
44	29.0	3.5	5.3#



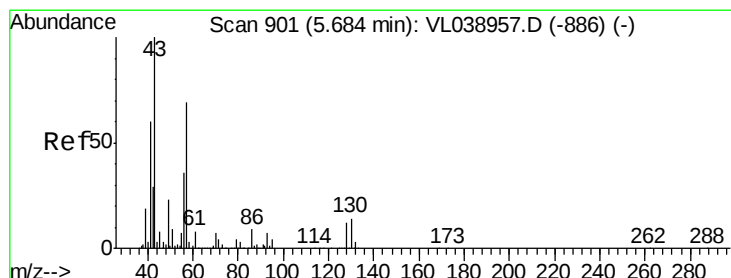
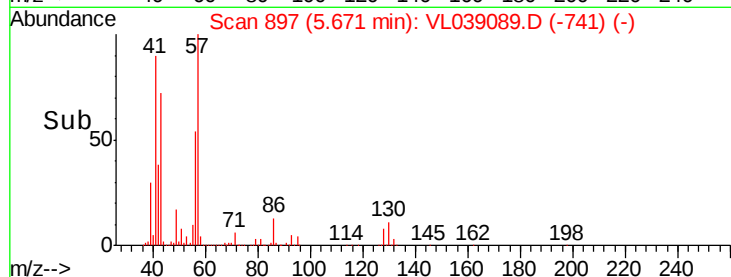
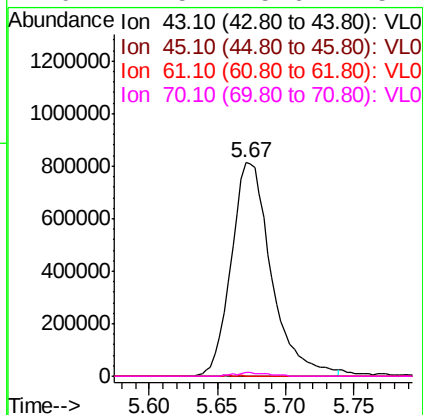
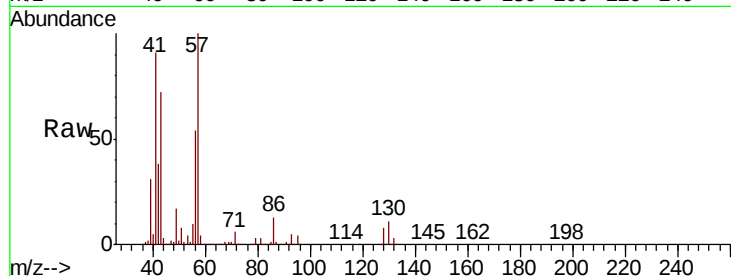
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





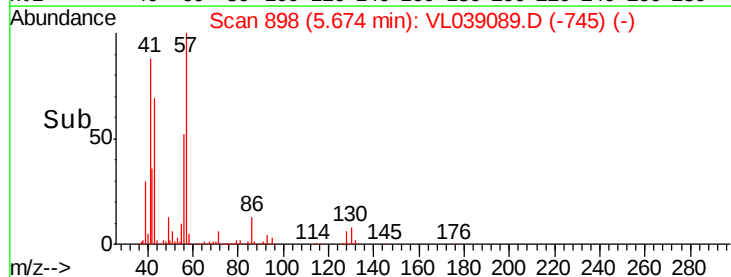
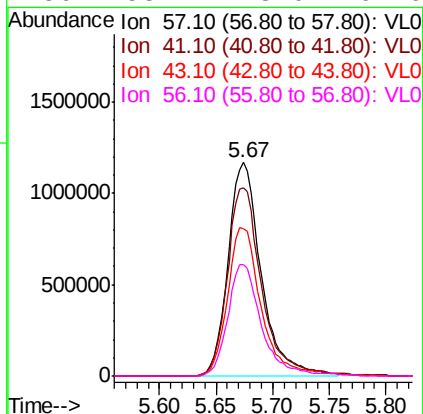
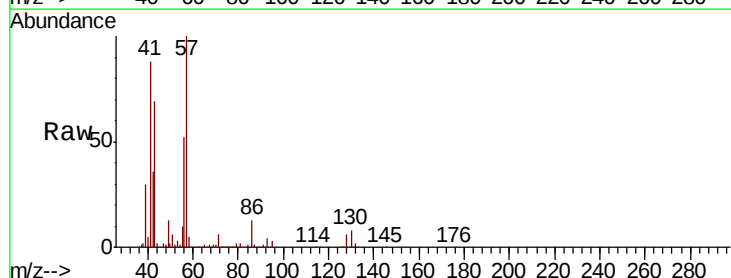
#25
Ethyl Acetate
Concen: 7.446 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 May 2022 18:23

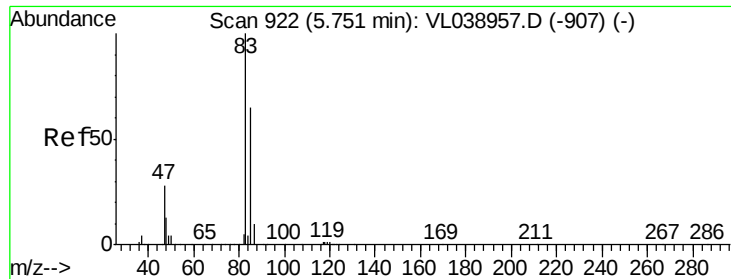
Tot Ion:	43	Resp:	1661660
Ion	Ratio	Lower	Upper
43	100		
45	0.4	8.1	12.1#
61	0.4	7.8	11.6#
70	1.5	5.6	8.4#



#26
Hexane
Concen: 24.123 ppbv
RT: 5.67 min Scan# 898
Delta R.T. -0.01 min
Lab File: VL039089.D
Acq: 23 May 2022 18:23

Tgt Ion:	57	Resp:	2391752
Ion	Ratio	Lower	Upper
57	100		
41	92.1	75.2	112.8
43	71.1	190.8	286.2#
56	53.2	43.0	64.6





#29

Chloroform

Concen: 0.041 ppbv

RT: 5.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

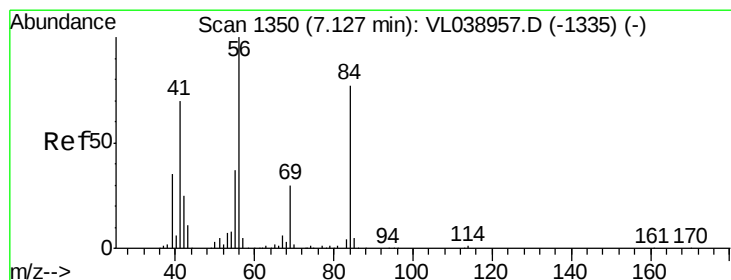
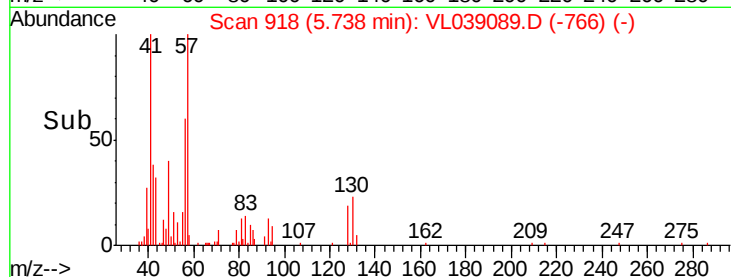
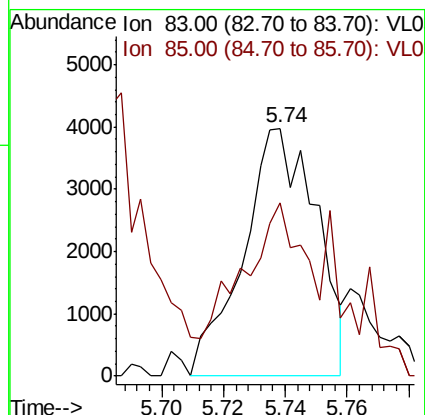
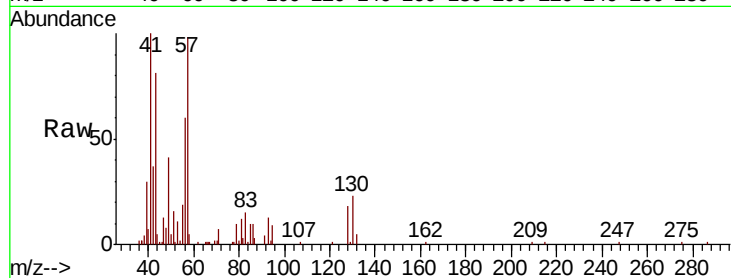
Acq: 23 May 2022 18:23

Tot Ion: 83 Resp: 6533

Ion Ratio Lower Upper

83 100

85 50.5 51.8 77.6#



#30

Cyclohexane

Concen: 0.048 ppbv

RT: 7.11 min Scan# 1345

Delta R.T. -0.02 min

Lab File: VL039089.D

Acq: 23 May 2022 18:23

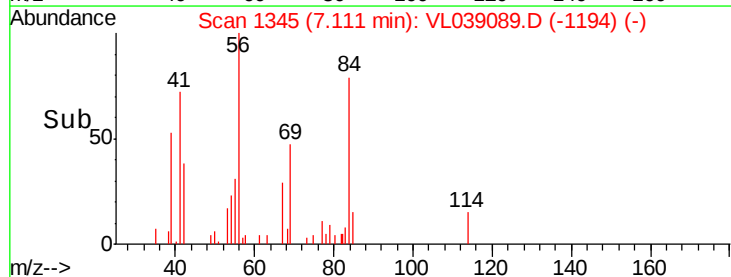
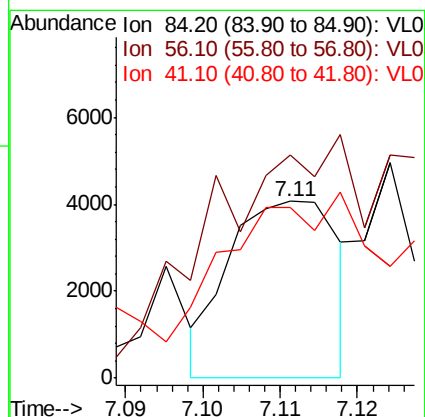
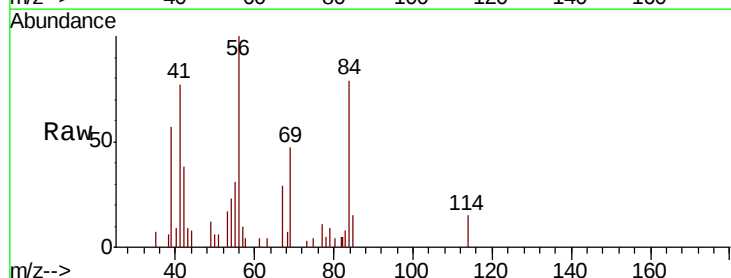
Tgt Ion: 84 Resp: 3965

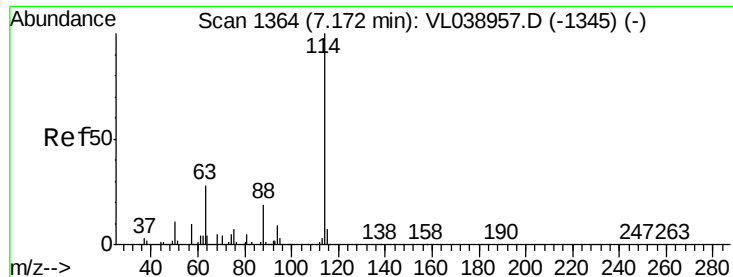
Ion Ratio Lower Upper

84 100

56 0.0 115.3 172.9#

41 0.0 72.0 108.0#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 Instrument: MSVOA_1

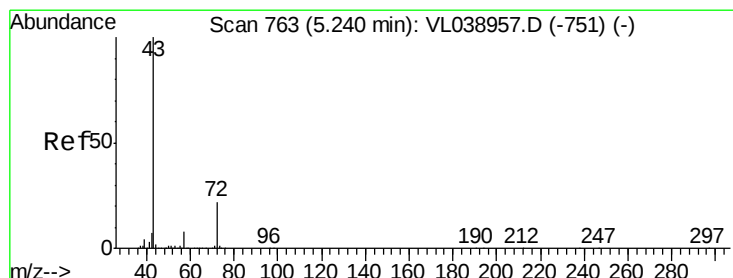
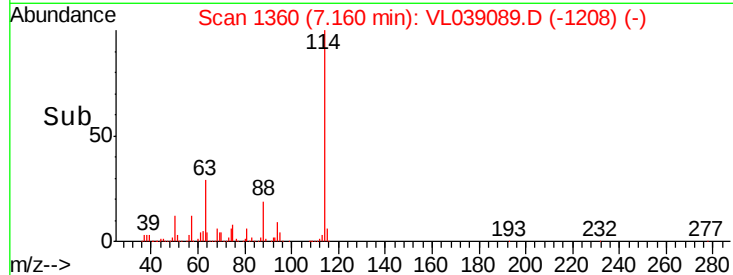
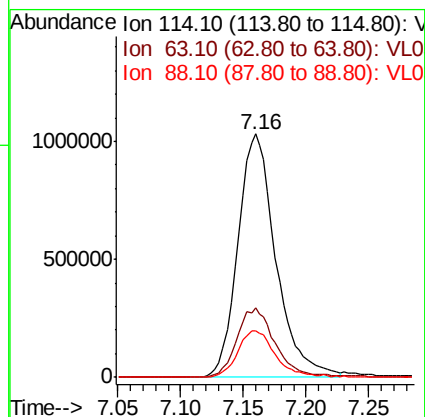
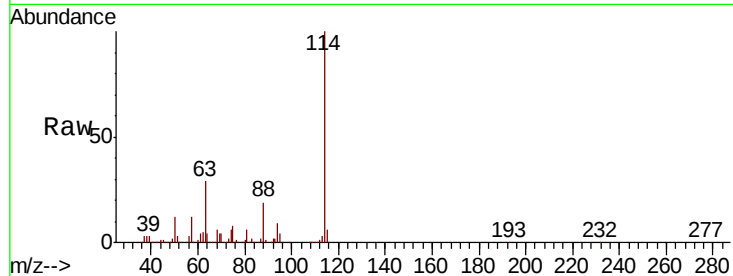
Delta R.T. ClientSampleId: AP-1

Lab File: AP-1

Acq: 23 May 2022 18:23

Tot Ion:114 Resp: 2171684

Ion	Ratio	Lower	Upper
114	100		
63	29.4	22.6	33.8
88	19.4	15.4	23.0



#34

2-Butanone

Concen: 0.174 ppbv

RT: 5.23 min Scan# 761

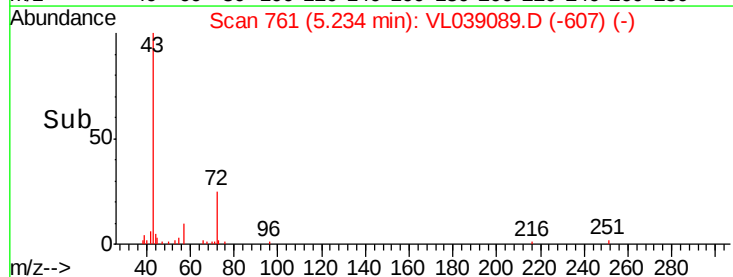
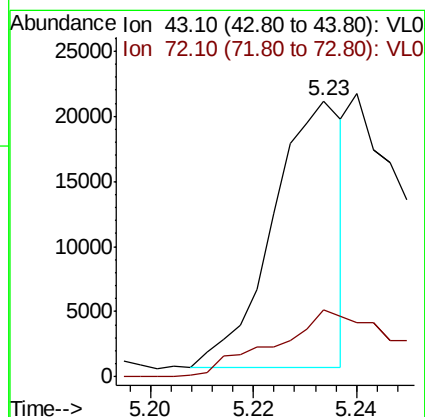
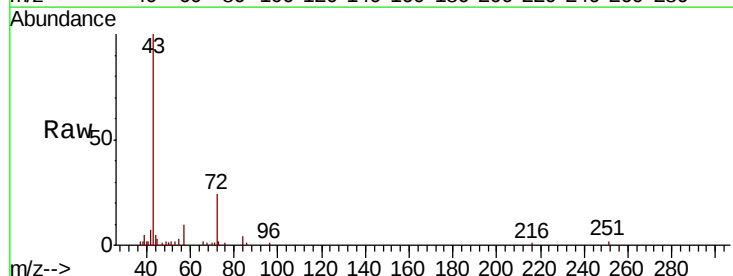
Delta R.T. -0.01 min

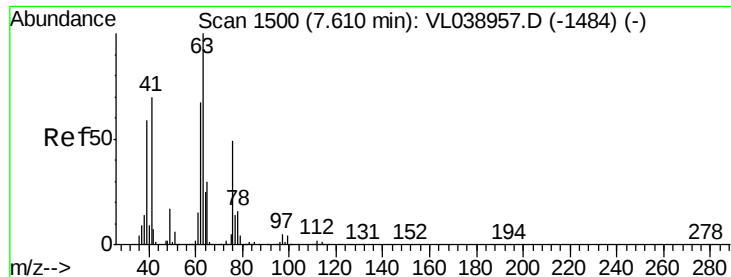
Lab File: VL039089.D

Acq: 23 May 2022 18:23

Tgt Ion: 43 Resp: 19298

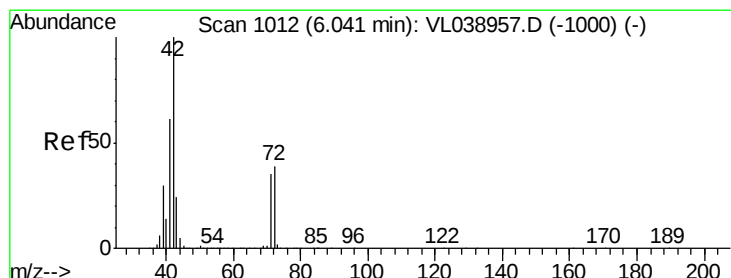
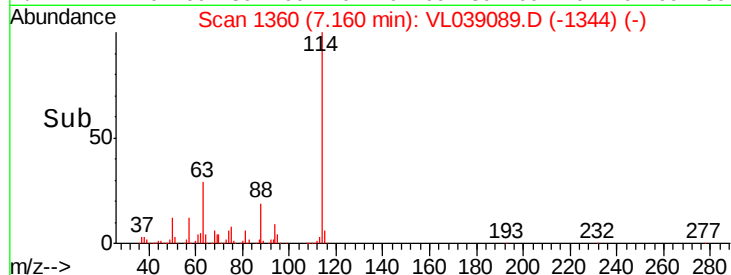
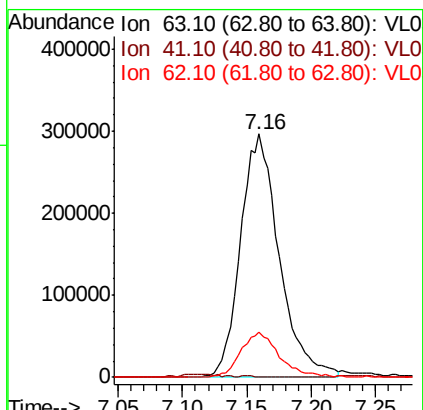
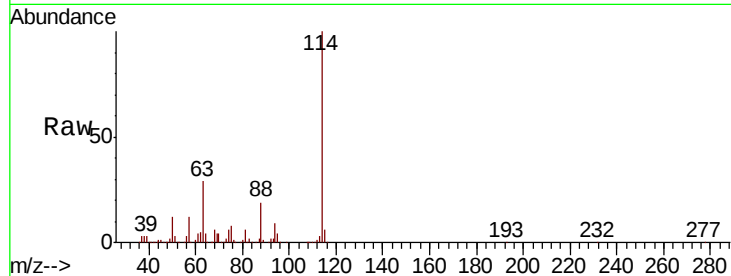
Ion	Ratio	Lower	Upper
43	100		
72	51.8	17.8	26.6#





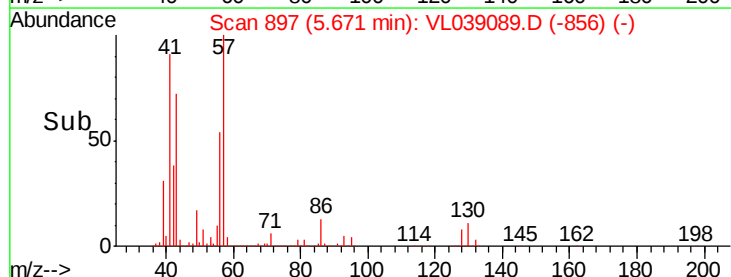
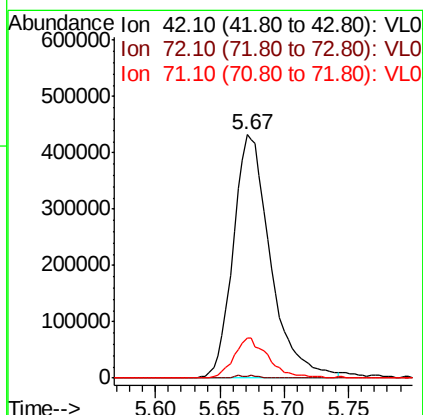
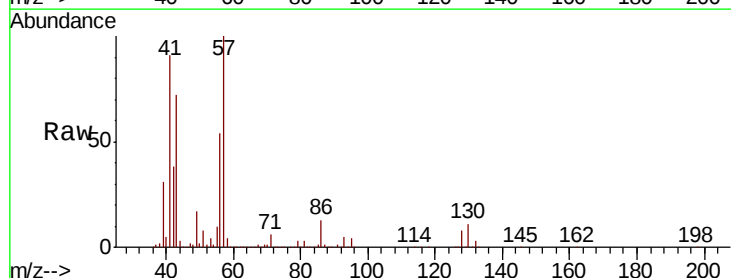
#39
 1,2-Dichloropropane
 Concen: 8.559 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 AP-1
 Acq: 23 May 2022 18:23

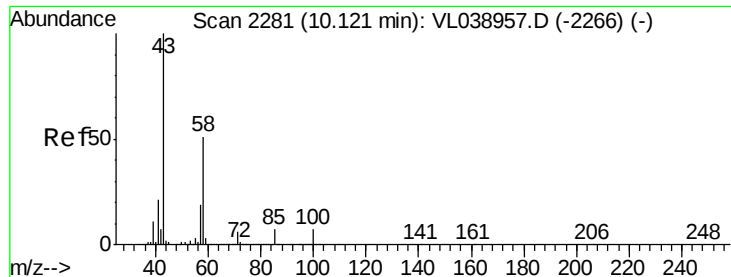
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	55.9	83.9#
62	18.7	53.8	80.6#



#41
 Tetrahydrofuran
 Concen: 11.622 ppbv
 RT: 5.67 min Scan# 897
 Delta R.T. -0.37 min
 Lab File: VL039089.D
 Acq: 23 May 2022 18:23

Tgt Ion	Ratio	Lower	Upper
42	100		
72	0.9	31.8	47.6#
71	15.8	30.6	45.8#





#51

2-Hexanone

Concen: 0.053 ppbv

RT: 10.09

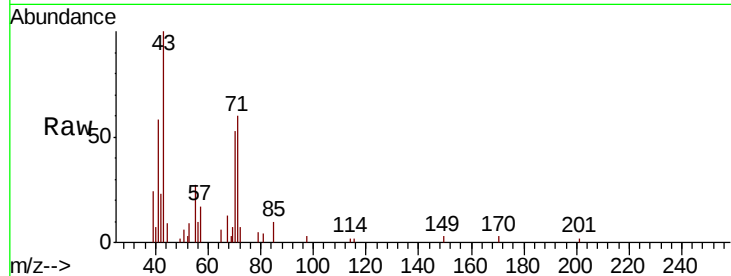
Delta R.T. MSVOA_L

Lab File: ClientSampleId :

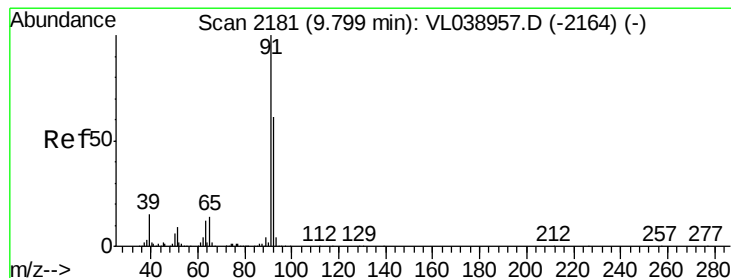
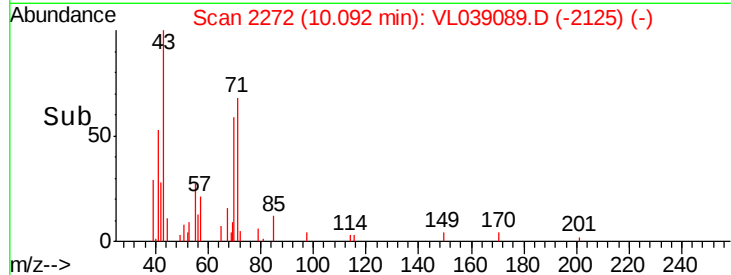
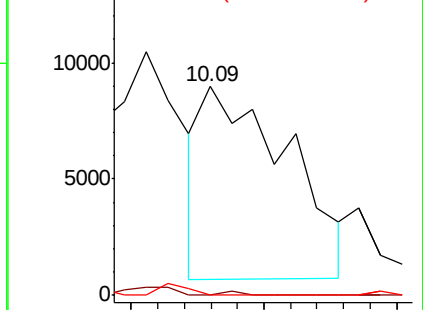
Acq: 23 May 2022 18:23

Tot Ion: 43 Resp: 7530

Ion	Ratio	Lower	Upper
43	100		
58	0.0	39.3	58.9#
98	0.0	0.2	0.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#53

Toluene

Concen: 0.123 ppbv

RT: 9.79 min Scan# 2177

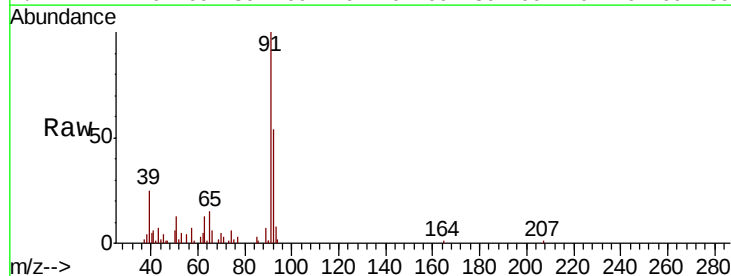
Delta R.T. -0.01 min

Lab File: VL039089.D

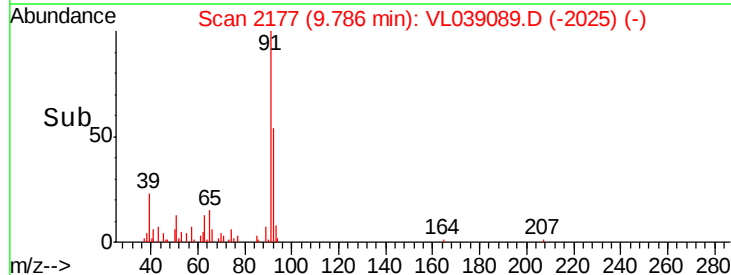
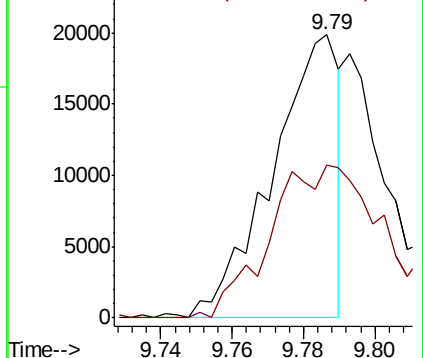
Acq: 23 May 2022 18:23

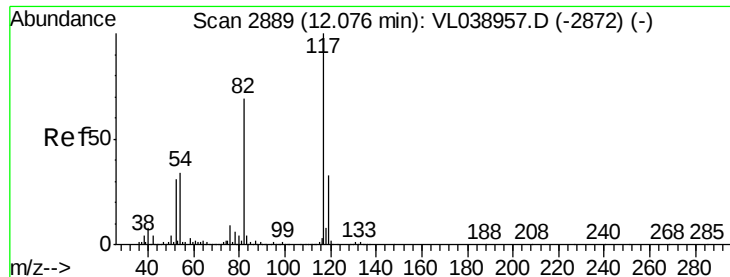
Tgt Ion: 91 Resp: 25622

Ion	Ratio	Lower	Upper
91	100		
92	97.5	48.2	72.2#



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: 12.06

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 23 May 2022 18:23

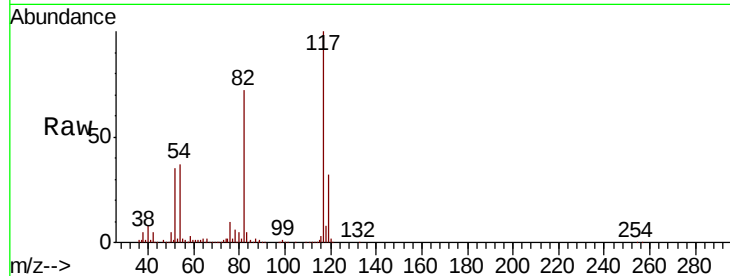
Tot Ion:117 Resp: 1810191

Ion Ratio Lower Upper

117 100

82 72.4 57.0 85.6

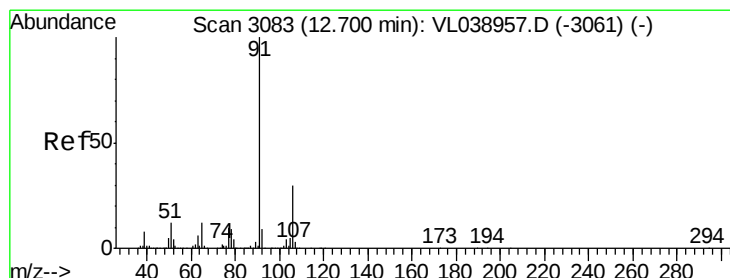
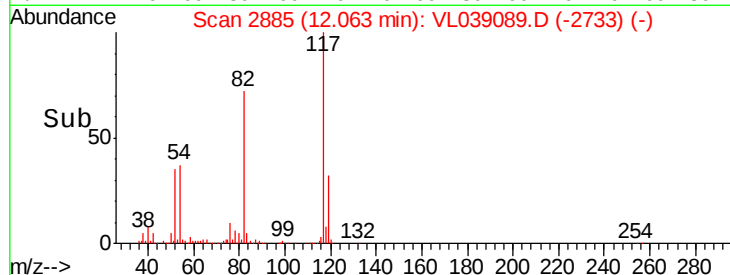
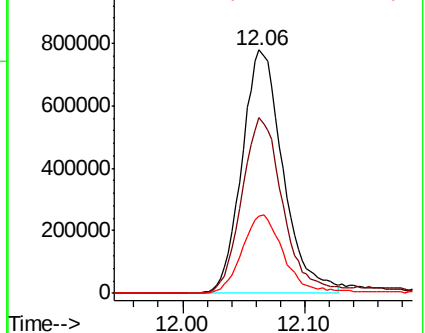
119 34.0 27.2 40.8



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: 0.203 ppbv

RT: 12.69 min Scan# 3079

Delta R.T. -0.01 min

Lab File: VL039089.D

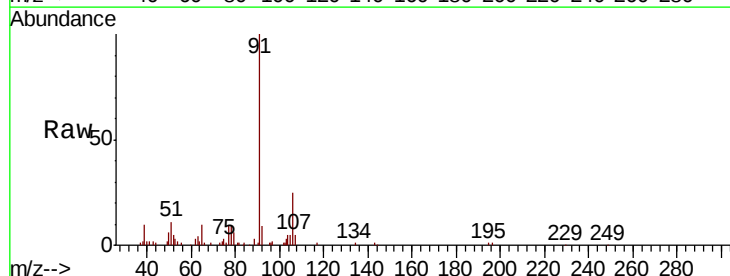
Acq: 23 May 2022 18:23

Tgt Ion: 91 Resp: 52854

Ion Ratio Lower Upper

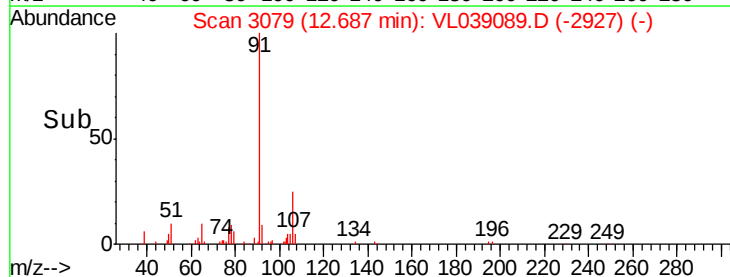
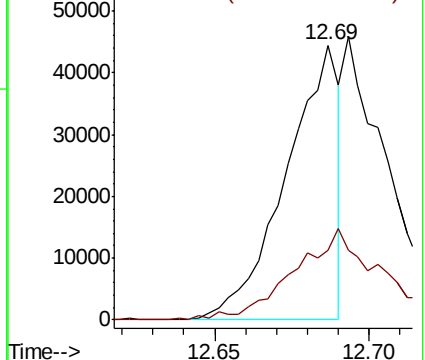
91 100

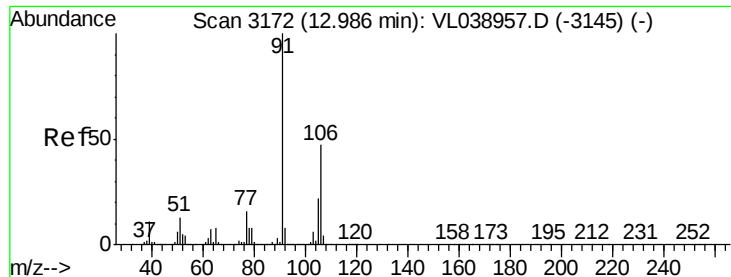
106 25.3 24.2 36.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

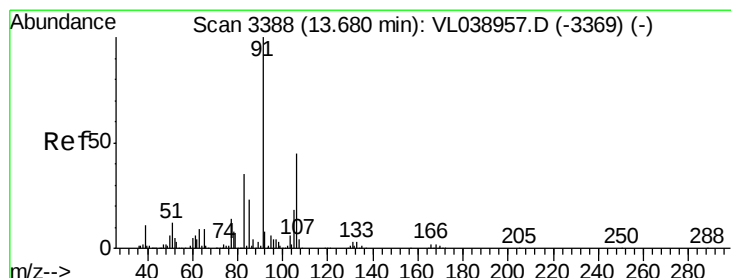
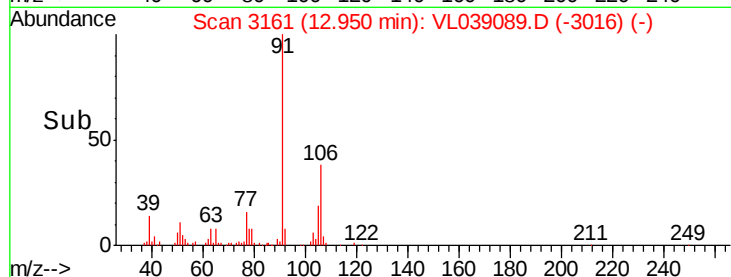
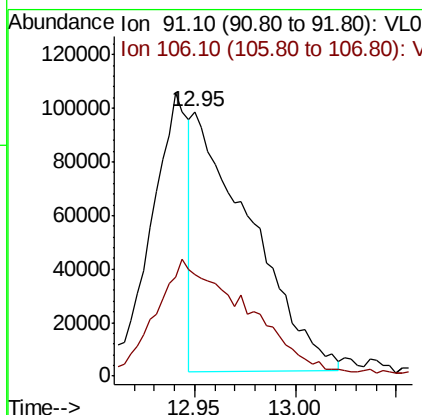
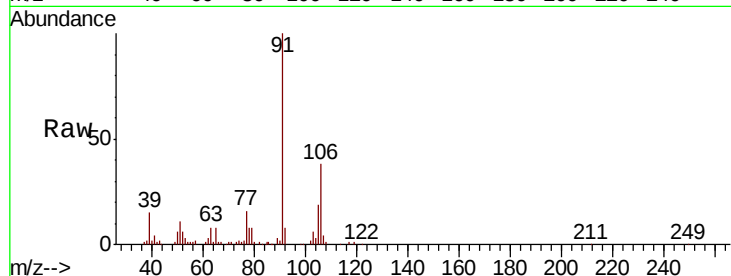
Ion 106.10 (105.80 to 106.80): V





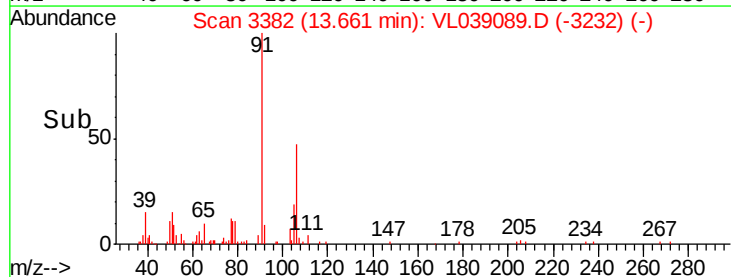
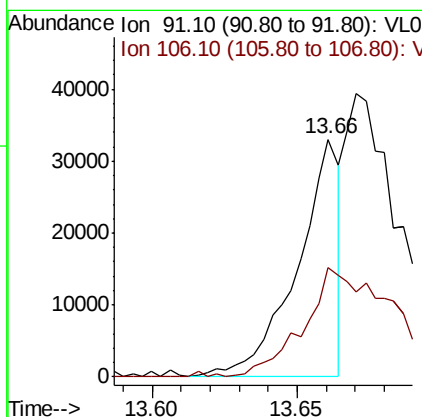
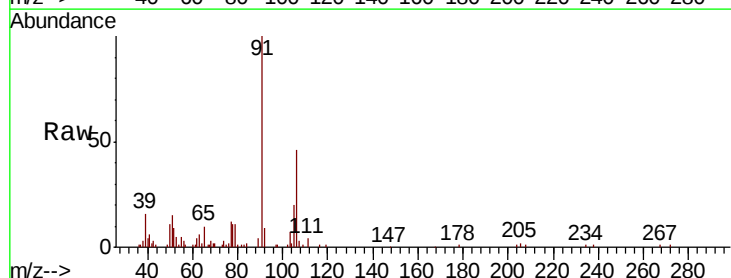
#59
m/p-Xylene
Concen: 0.867 ppbv
RT: 12.95
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 23 May 2022 18:23

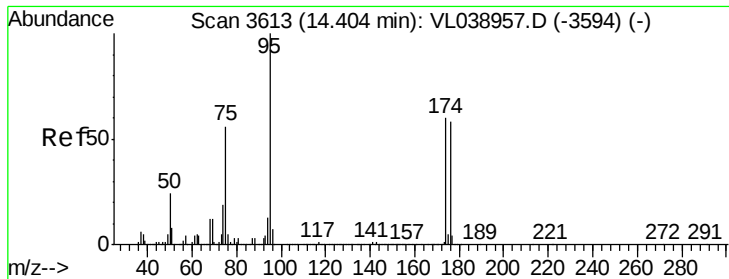
Tot Ion: 91 Resp: 192816
Ion Ratio Lower Upper
91 100
106 0.0 34.6 52.0#



#60
o-Xylene
Concen: 0.160 ppbv
RT: 13.66 min Scan# 3382
Delta R.T. -0.02 min
Lab File: VL039089.D
Acq: 23 May 2022 18:23

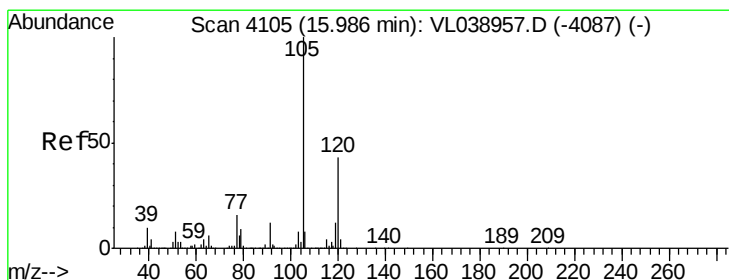
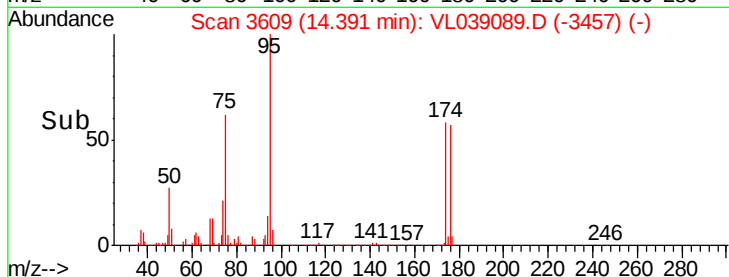
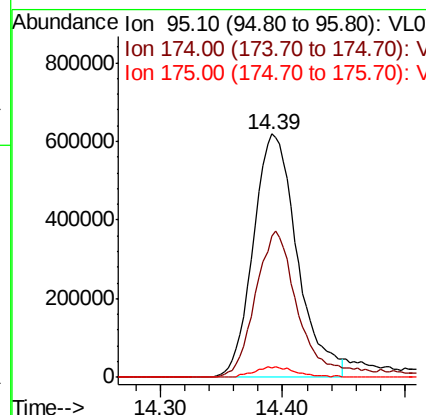
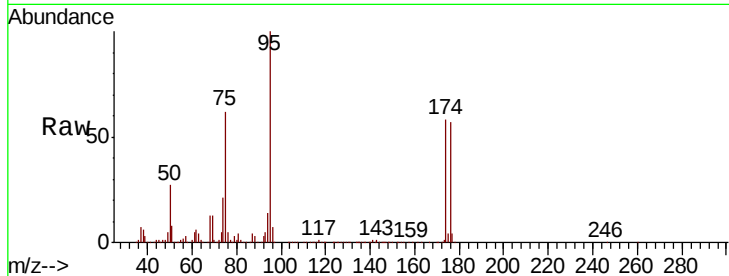
Tgt Ion: 91 Resp: 33464
Ion Ratio Lower Upper
91 100
106 104.8 22.2 66.6#





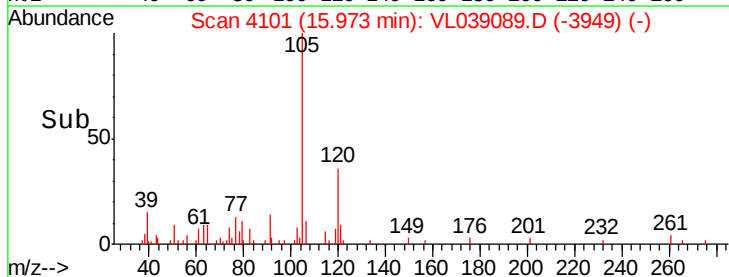
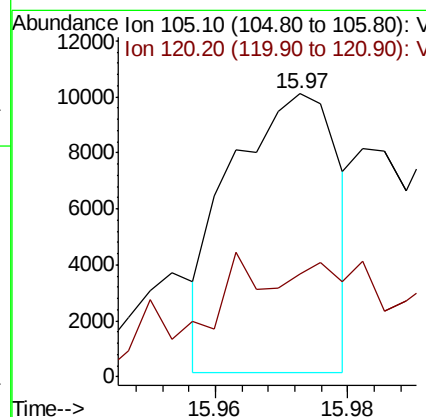
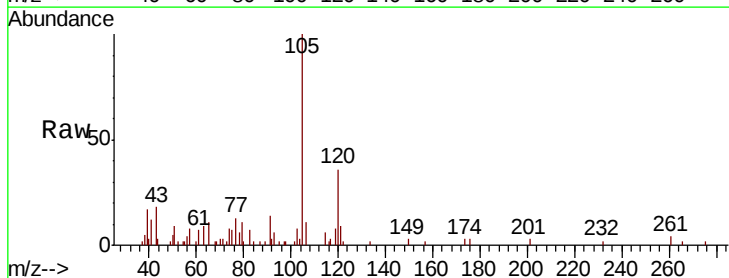
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.755 ppbv
 RT: 14.39 min
 Delta R.T. MSVOA.L
 Lab File: ClientSampleId :
 AP-1
 Acq: 23 May 2022 18:23

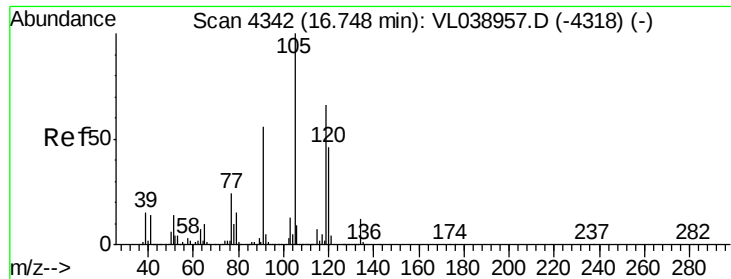
Tot Ion: 95 Resp: 1541856
 Ion Ratio Lower Upper
 95 100
 174 62.8 50.8 76.2
 175 4.4 3.8 5.6



#73
 1,3,5-Trimethylbenzene
 Concen: 0.052 ppbv
 RT: 15.97 min Scan# 4101
 Delta R.T. -0.01 min
 Lab File: VL039089.D
 Acq: 23 May 2022 18:23

Tgt Ion: 105 Resp: 11214
 Ion Ratio Lower Upper
 105 100
 120 25.0 34.4 51.6#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.145 ppbv
 RT: 16.73
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 AP-1
 Acq: 23 May 2022 18:25

Tot Ion:	105	Resp:	33995
Ion Ratio	Lower	Upper	
105	100		
120	37.2	36.9	55.3
91	10.1	45.0	67.4#
77	0.8	19.2	28.8#

