

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061322\
 Data File : VL039275.D
 Acq On : 14 Jun 2022 6:52
 Operator : SY/AP
 Sample : N3326-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Quant Time: Jun 14 08:08:50 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1005062	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2371168	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2045799	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1805945	10.68	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.80%

Target Compounds

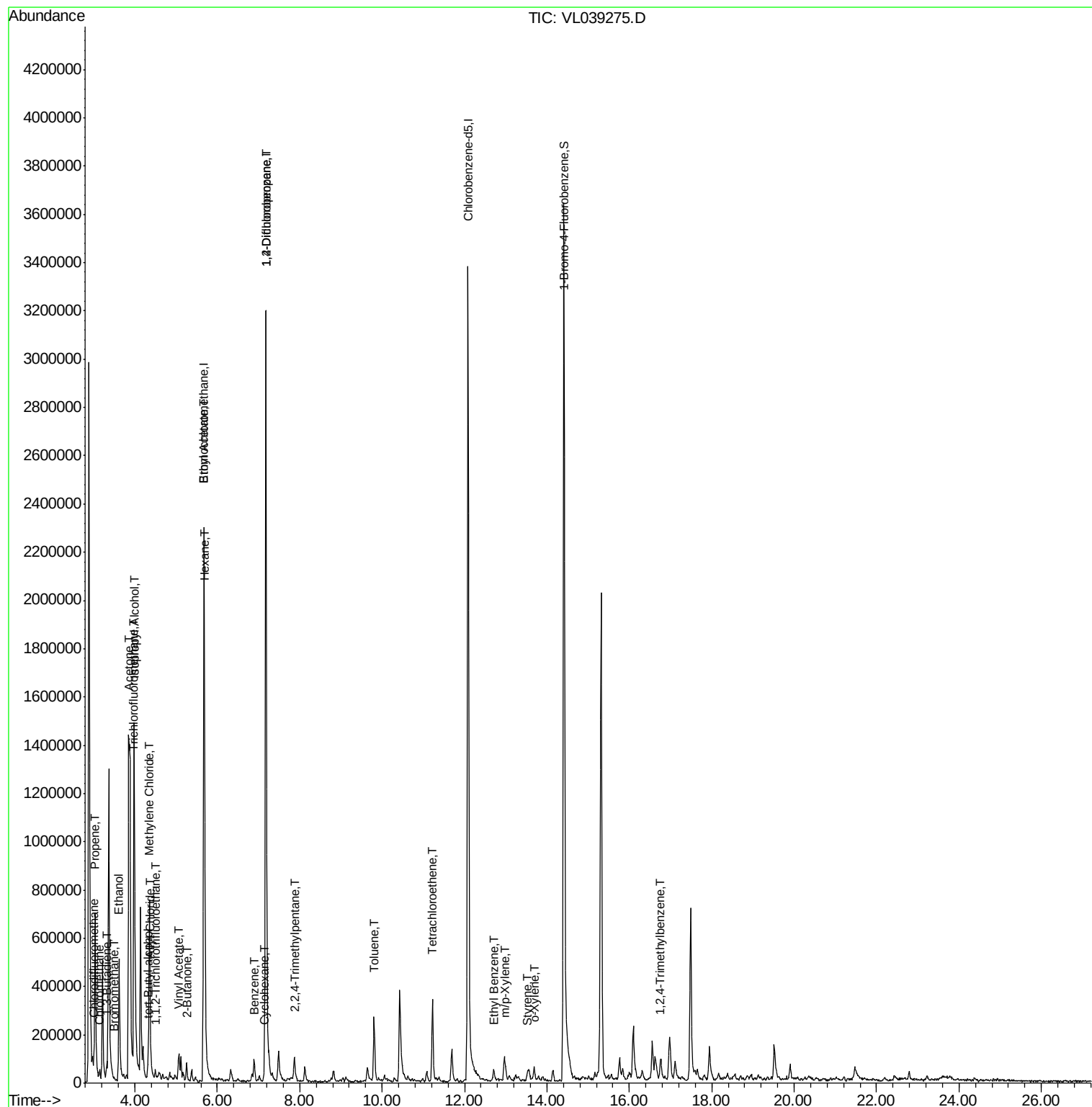
					Ovalue
3) Chlorodifluoromethane	2.99	51	88946	0.696 ppbv	# 86
4) Chloromethane	3.15	50	37247	0.567 ppbv	100
6) Bromomethane	3.48	94	1056	0.035 ppbv	# 26
9) Propene	3.03	41	183930	3.299 ppbv	# 73
11) Trichlorofluoromethane	3.96	101	60872	0.381 ppbv	87
12) 1,1,2-Trichlorotrifluoroet	4.49	101	5889	0.056 ppbv	# 1
13) Ethanol	3.61	45	577582	189.933 ppbv	# 100
15) Acetone	3.85	43	2169908	20.726 ppbv	92
16) 1,3-Butadiene	3.32	39	12493	0.222 ppbv	# 38
17) tert-Butyl alcohol	4.31	59	18421	0.227 ppbv	# 70
19) Isopropyl Alcohol	3.98	45	1915960	39.018 ppbv	100
20) Methylene Chloride	4.35	84	302700	6.861 ppbv	97
21) Allyl Chloride	4.38	41	3124	0.044 ppbv	# 1
23) Vinyl Acetate	5.07	43	71641	0.827 ppbv	# 66
25) Ethyl Acetate	5.68	43	304842	1.292 ppbv	# 94
26) Hexane	5.69	57	229353	2.212 ppbv	# 60
30) Cyclohexane	7.13	84	3551	0.041 ppbv	# 1
34) 2-Butanone	5.25	43	46716	0.363 ppbv	# 51
36) Benzene	6.90	78	61593	0.320 ppbv	# 93
39) 1,2-Dichloropropane	7.18	63	693200	9.053 ppbv	# 24
44) 2,2,4-Trimethylpentane	7.88	57	11391	0.034 ppbv	# 43
52) Tetrachloroethene	11.22	164	67183	0.894 ppbv	90
53) Toluene	9.81	91	113497	0.512 ppbv	# 57
58) Ethyl Benzene	12.71	91	17675	0.063 ppbv	90
59) m/p-Xylene	12.99	91	11112	0.045 ppbv	# 33
60) o-Xylene	13.69	91	25983	0.111 ppbv	# 65
61) Styrene	13.52	104	7083	0.057 ppbv	# 1
74) 1,2,4-Trimethylbenzene	16.76	105	30652	0.111 ppbv	# 67

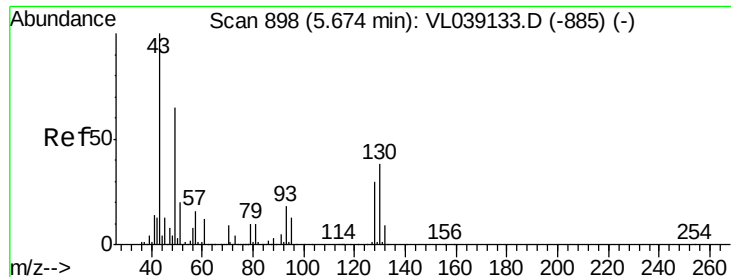
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : VL039275.D
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Instrument :
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IA1

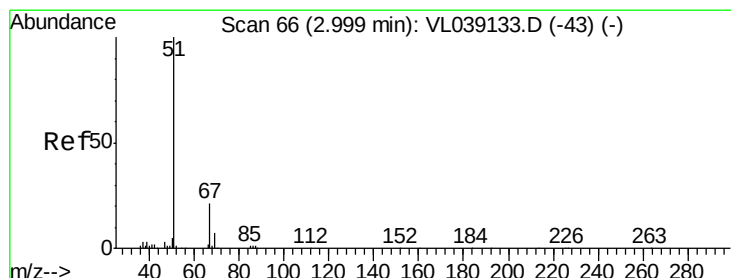
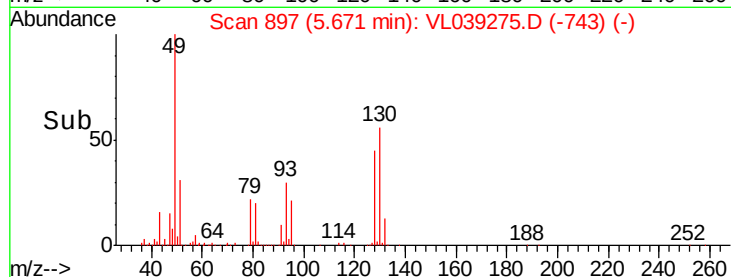
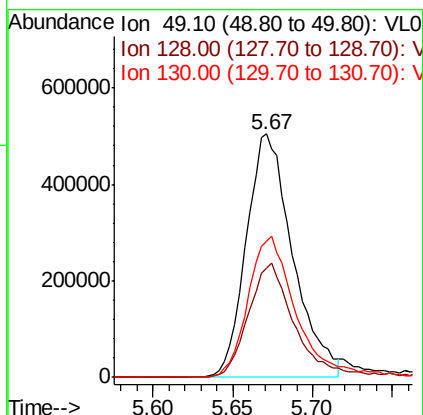
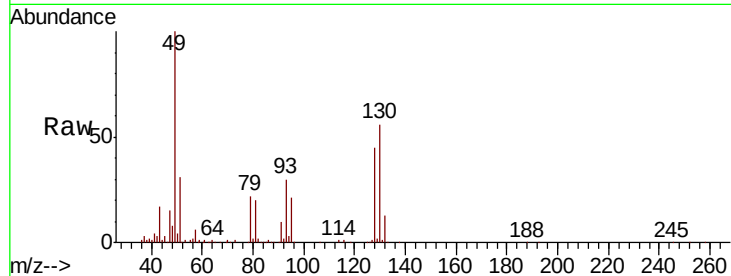
Quant Time: Jun 14 08:08:50 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 01 01:22:18 2022
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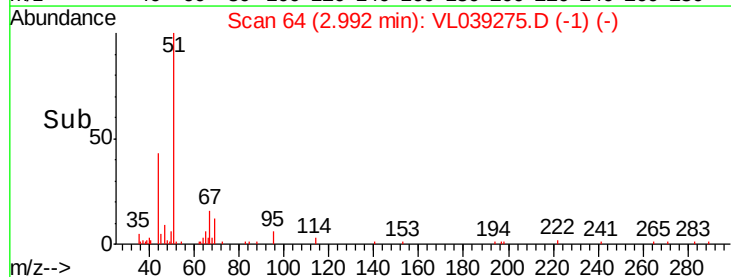
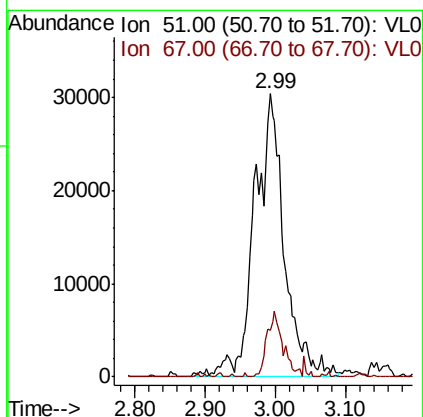
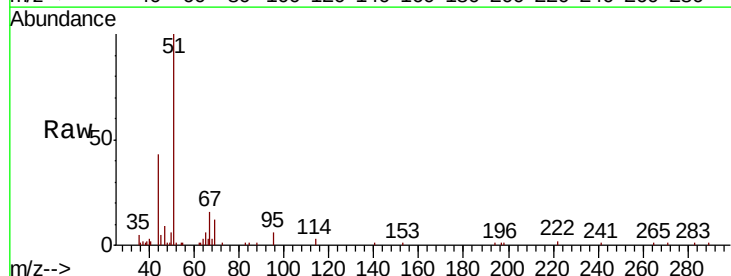
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 14 Jun 2022 8:52

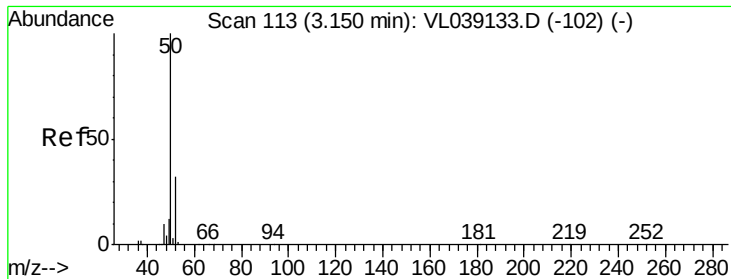
Tot Ion: 49 Resp: 1005062
 Ion Ratio Lower Upper
 49 100
 128 48.1 24.7 74.1
 130 60.9 31.4 94.0



#3
 Chlorodifluoromethane
 Concen: 0.696 ppbv
 RT: 2.99 min Scan# 64
 Delta R.T. -0.01 min
 Lab File: VL039275.D
 Acq: 14 Jun 2022 6:52

Tgt Ion: 51 Resp: 88946
 Ion Ratio Lower Upper
 51 100
 67 13.7 16.2 24.4#





#4

Chloromethane

Concen: 0.567 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

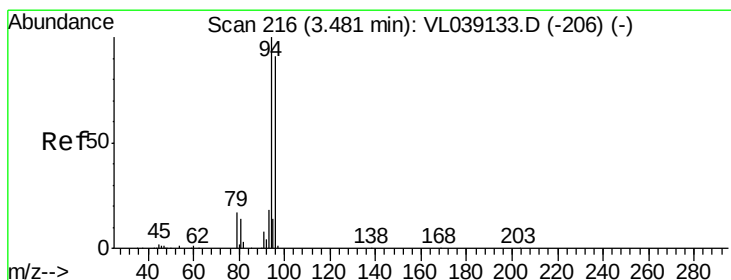
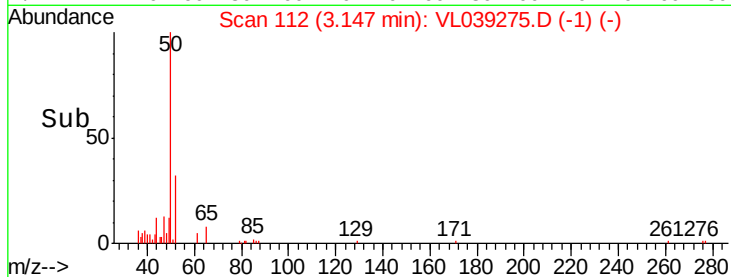
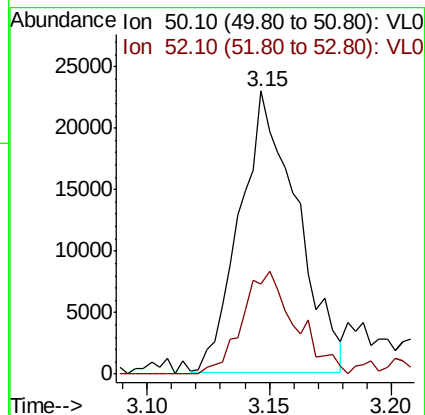
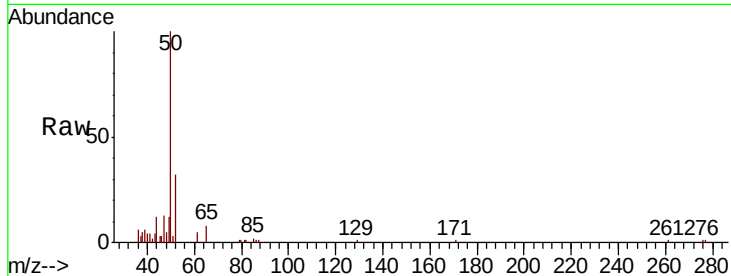
Acq: 14 Jun 2022 8:52

Tot Ion: 50 Resp: 37247

Ion Ratio Lower Upper

50 100

52 32.3 25.9 38.9



#6

Bromomethane

Concen: 0.035 ppbv

RT: 3.48 min Scan# 217

Delta R.T. 0.00 min

Lab File: VL039275.D

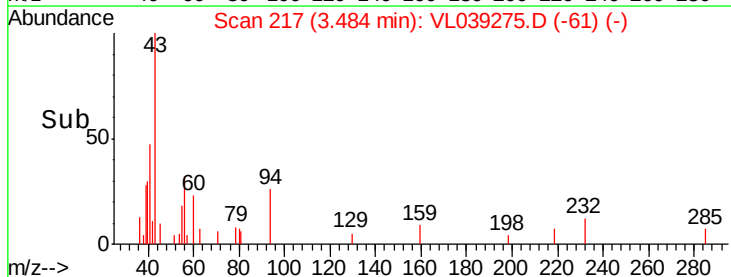
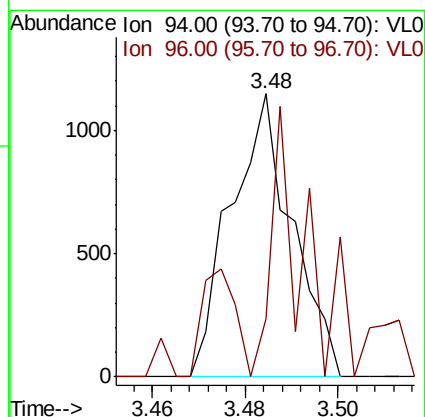
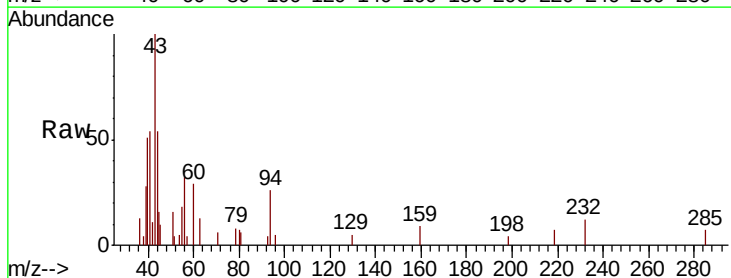
Acq: 14 Jun 2022 6:52

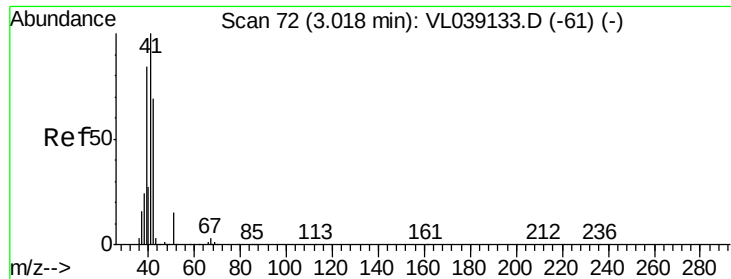
Tgt Ion: 94 Resp: 1056

Ion Ratio Lower Upper

94 100

96 20.7 73.0 109.4#





#9

Propene

Concen: 3.299 ppbv

RT: 3.03 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

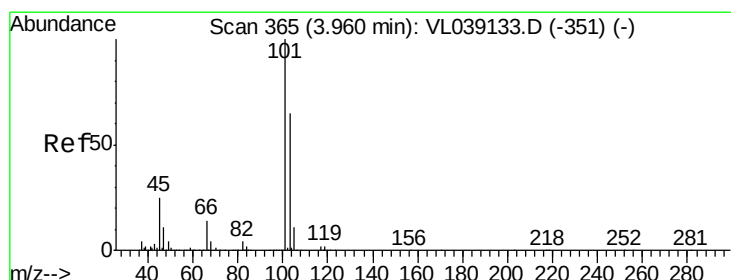
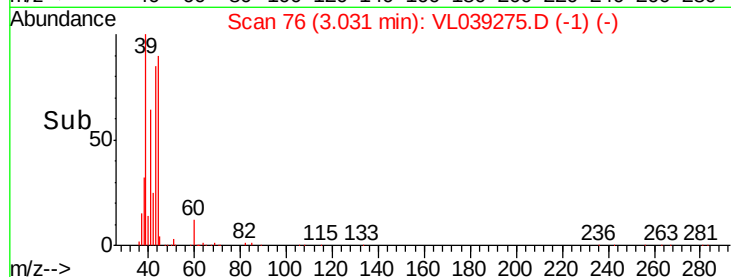
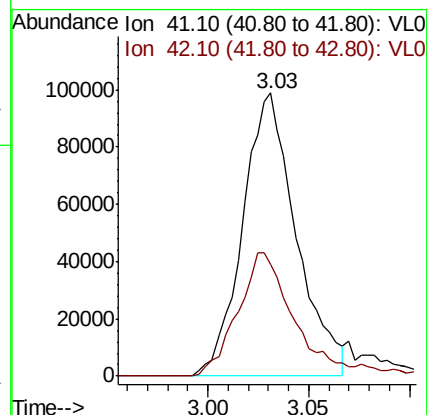
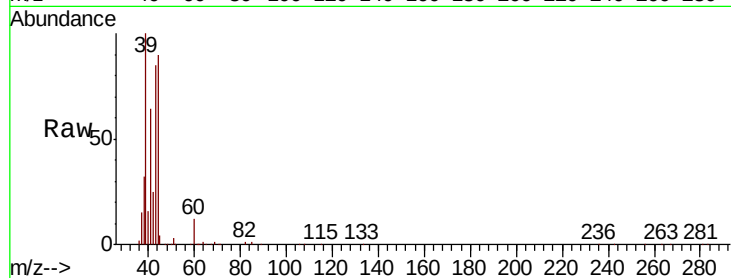
Acq: 14 Jun 2022 8:52

Tot Ion: 41 Resp: 183930

Ion Ratio Lower Upper

41 100

42 47.5 55.4 83.2#



#11

Trichlorofluoromethane

Concen: 0.381 ppbv

RT: 3.96 min Scan# 365

Delta R.T. -0.00 min

Lab File: VL039275.D

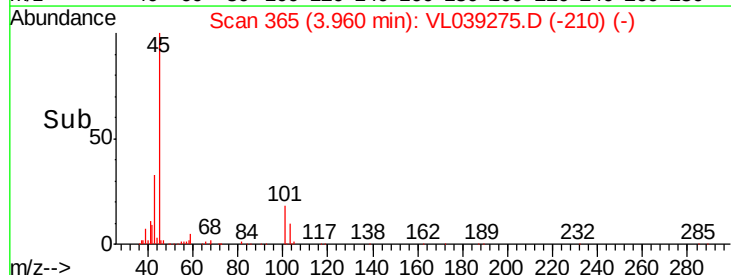
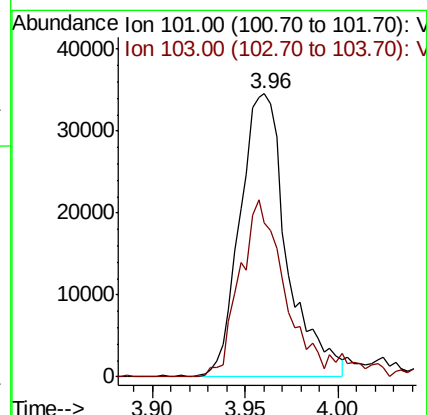
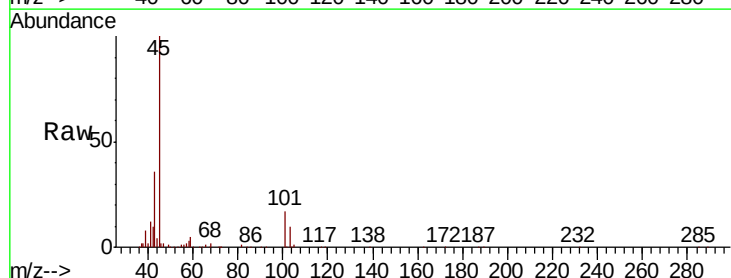
Acq: 14 Jun 2022 6:52

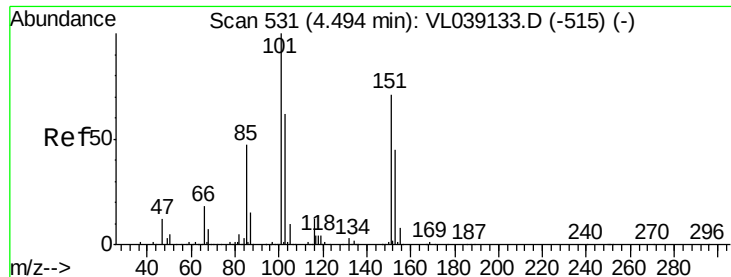
Tgt Ion:101 Resp: 60872

Ion Ratio Lower Upper

101 100

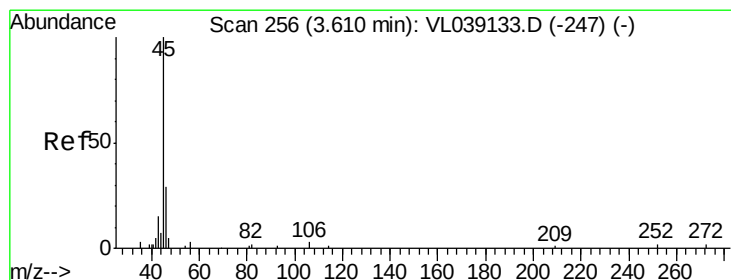
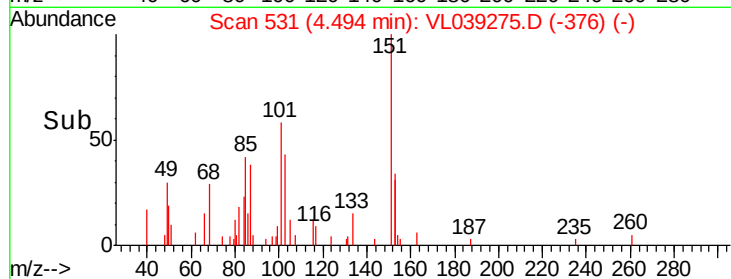
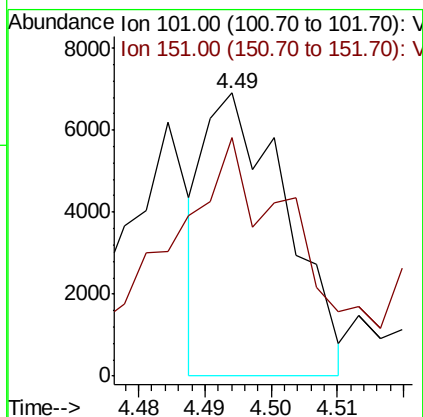
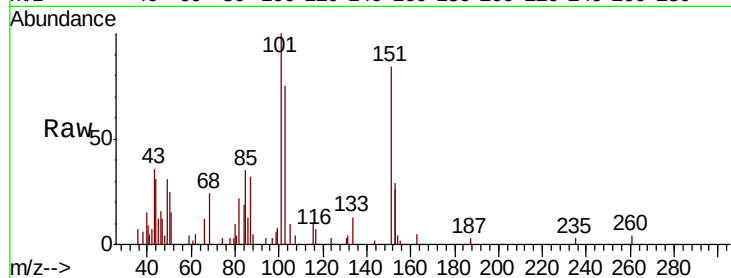
103 54.6 51.7 77.5





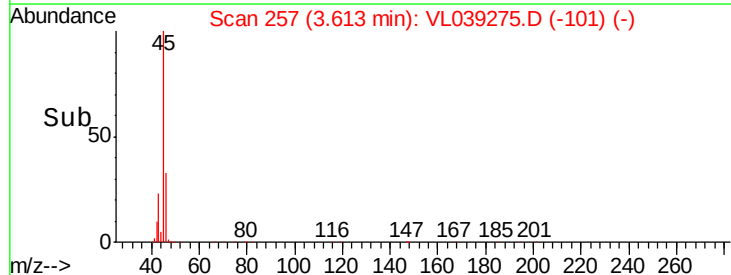
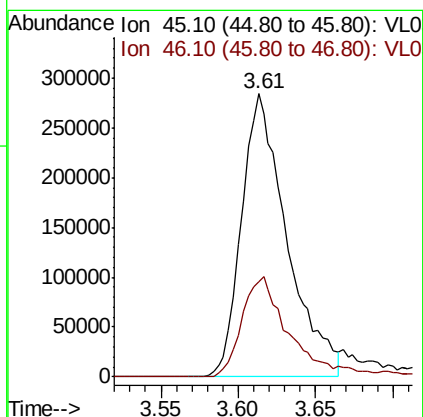
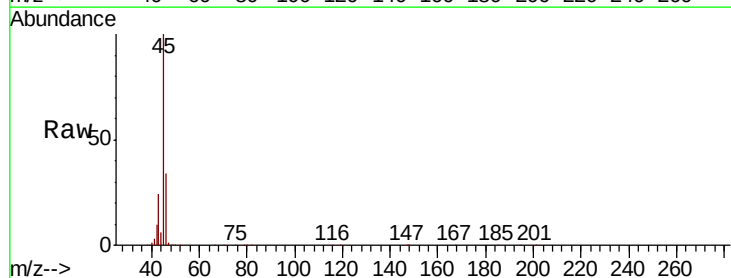
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.056 ppbv
 RT: 4.49
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Jun 2022 8:52

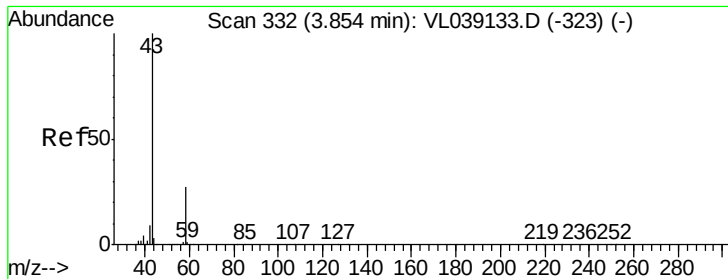
Tot Ion: 101 Resp: 5889
 Ion Ratio Lower Upper
 101 100
 151 175.1 59.4 89.0#



#13
 Ethanol
 Concen: 189.933 ppbv
 RT: 3.61 min Scan# 257
 Delta R.T. 0.00 min
 Lab File: VL039275.D
 Acq: 14 Jun 2022 6:52

Tgt Ion: 45 Resp: 577582
 Ion Ratio Lower Upper
 45 100
 46 38.3 0.0 0.0#





#15

Acetone

Concen: 20.726 ppbv

RT: 3.85 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

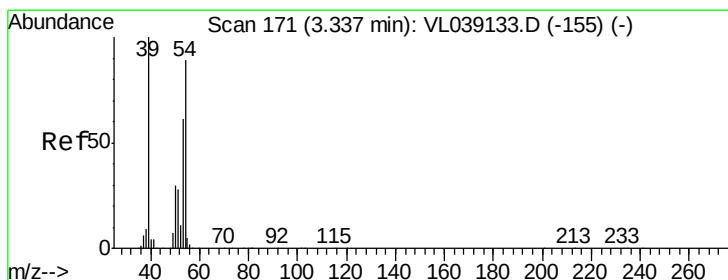
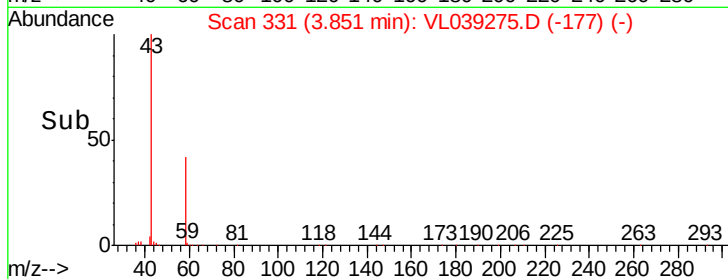
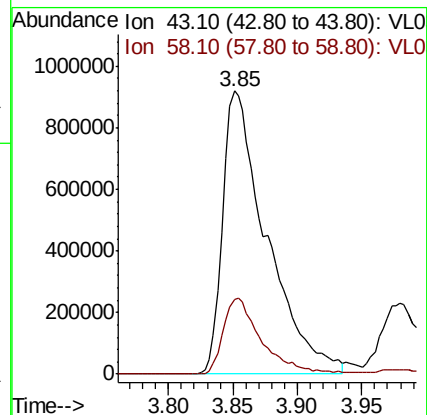
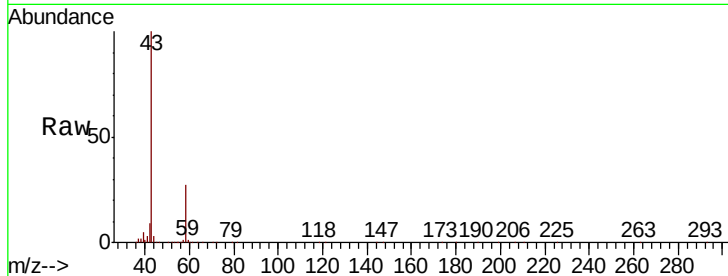
Acq: 14 Jun 2022 8:52

Tot Ion: 43 Resp: 2169908

Ion Ratio Lower Upper

43 100

58 23.9 22.5 33.7



#16

1,3-Butadiene

Concen: 0.222 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.02 min

Lab File: VL039275.D

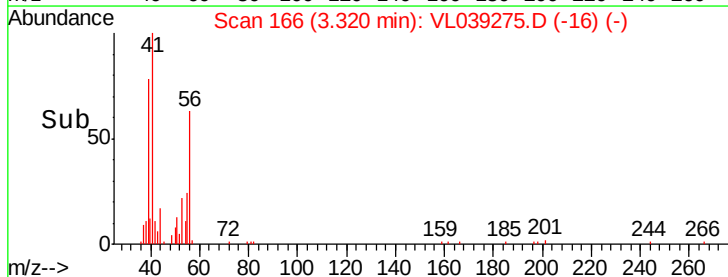
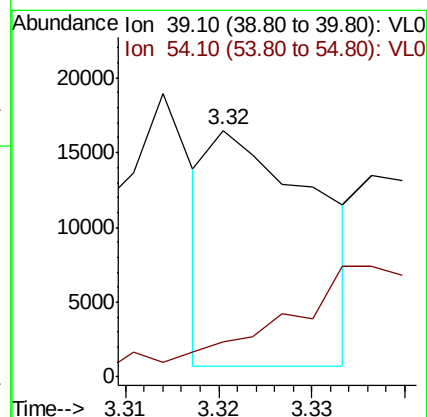
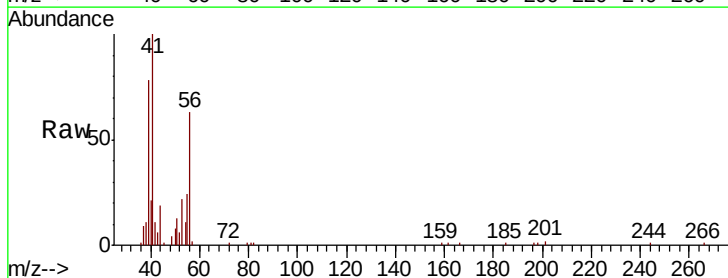
Acq: 14 Jun 2022 6:52

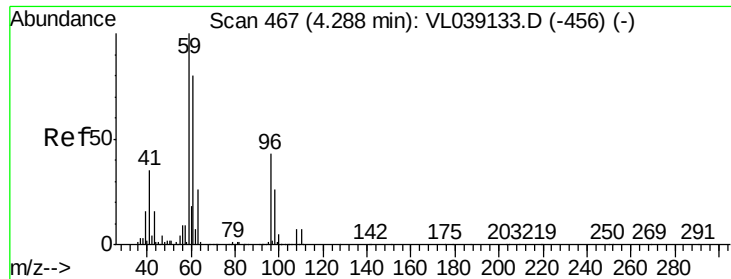
Tgt Ion: 39 Resp: 12493

Ion Ratio Lower Upper

39 100

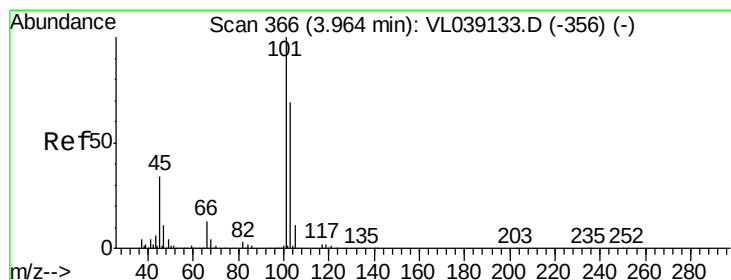
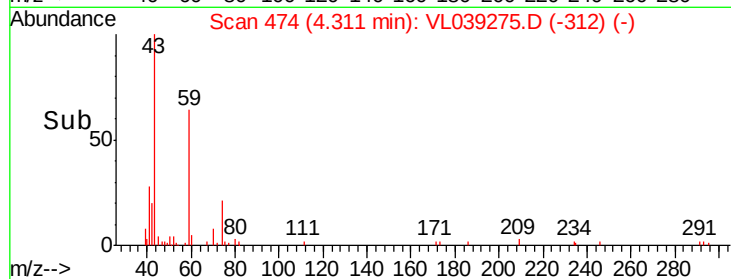
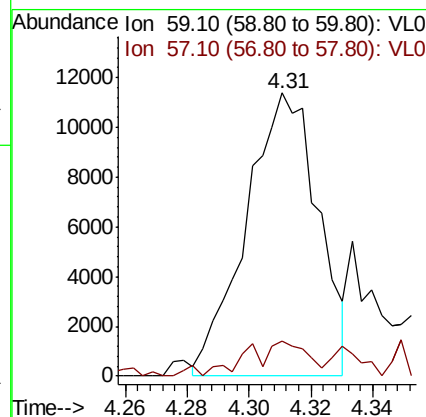
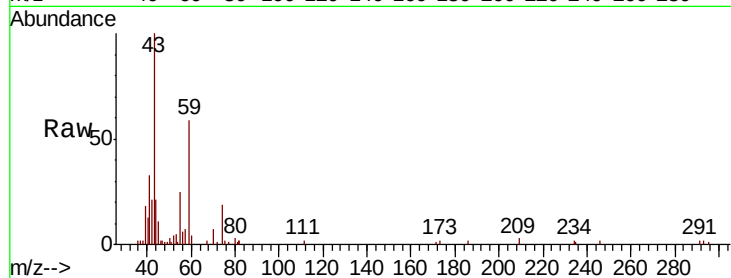
54 137.7 65.8 98.6#





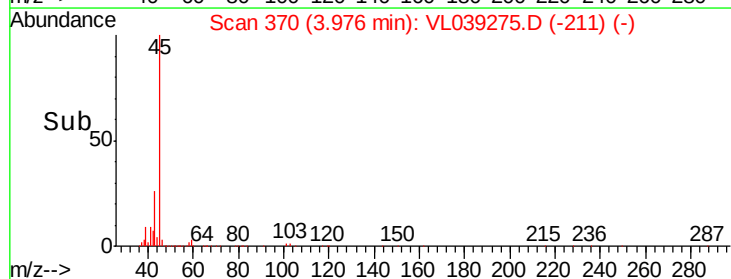
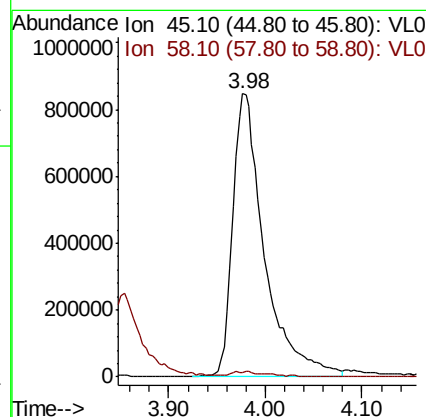
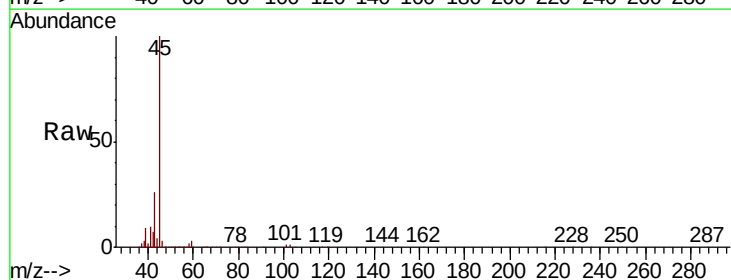
#17
 tert-Butyl alcohol
 Concen: 0.227 ppbv
 RT: 4.31
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Jun 2022 8:52

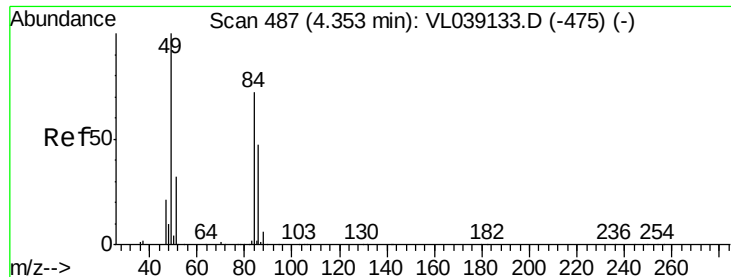
Tot Ion: 59 Resp: 18421
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.1 13.7#



#19
 Isopropyl Alcohol
 Concen: 39.018 ppbv
 RT: 3.98 min Scan# 370
 Delta R.T. 0.01 min
 Lab File: VL039275.D
 Acq: 14 Jun 2022 6:52

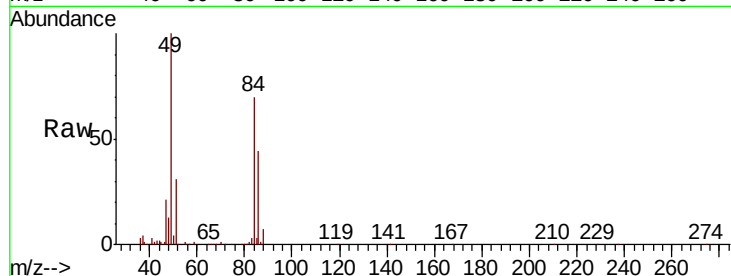
Tgt Ion: 45 Resp: 1915960
 Ion Ratio Lower Upper
 45 100
 58 2.3 1.8 2.8



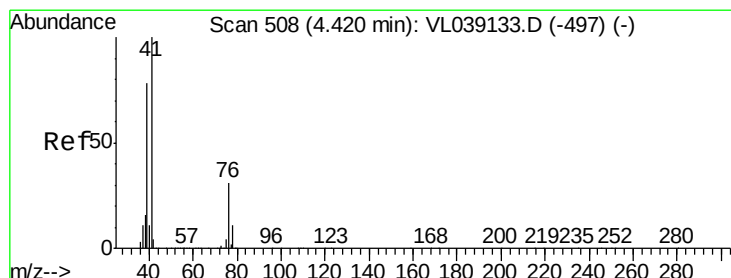
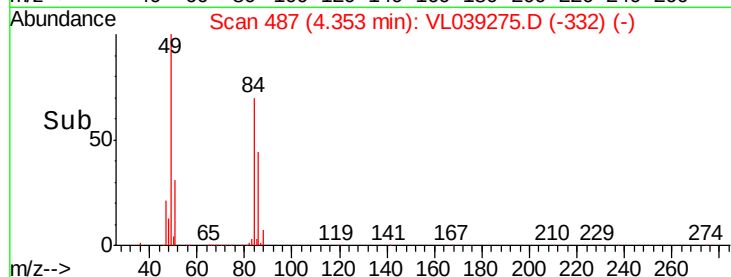
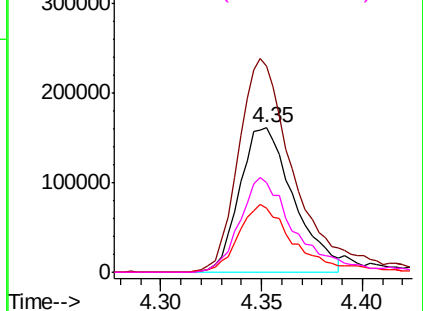


#20
Methylene Chloride
Concen: 6.861 ppbv
RT: 4.35
Delta R.T. MSV0A.L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 0:32

Tot Ion:	84	Resp:	302700
Ion	Ratio	Lower	Upper
84	100		
49	142.8	111.1	166.7
51	44.1	35.3	52.9
86	62.6	51.9	77.9

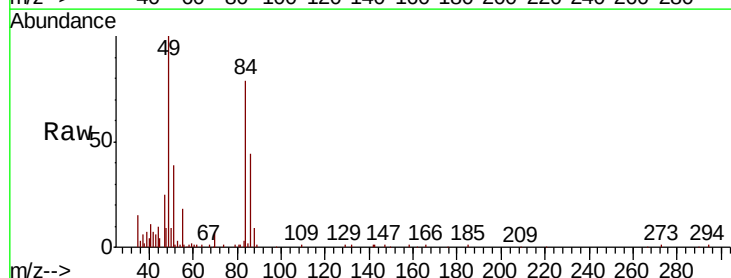


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

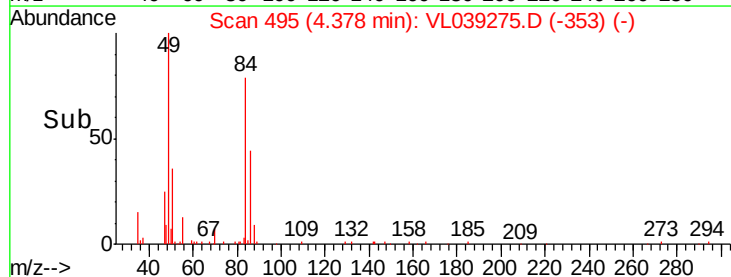
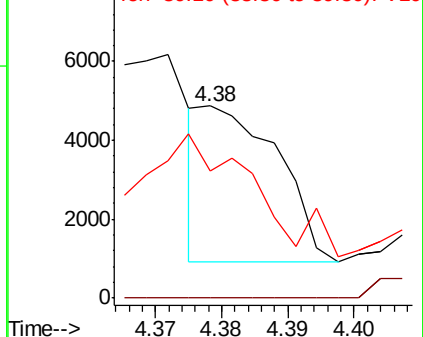


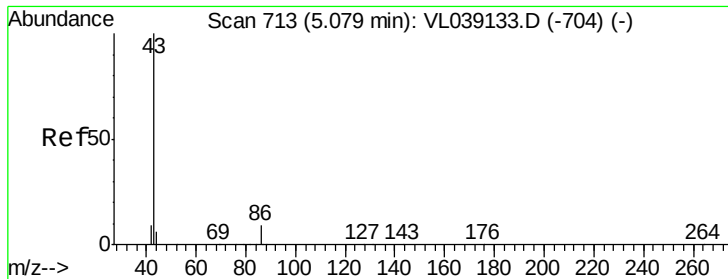
#21
Allyl Chloride
Concen: 0.044 ppbv
RT: 4.38 min Scan# 495
Delta R.T. -0.04 min
Lab File: VL039275.D
Acq: 14 Jun 2022 6:52

Tgt Ion:	41	Resp:	3124
Ion	Ratio	Lower	Upper
41	100		
76	7.6	24.2	36.2#
39	315.4	62.2	93.2#



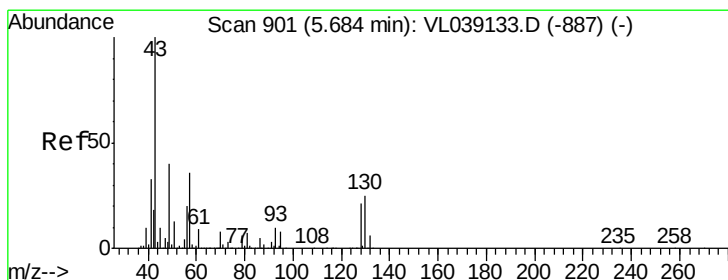
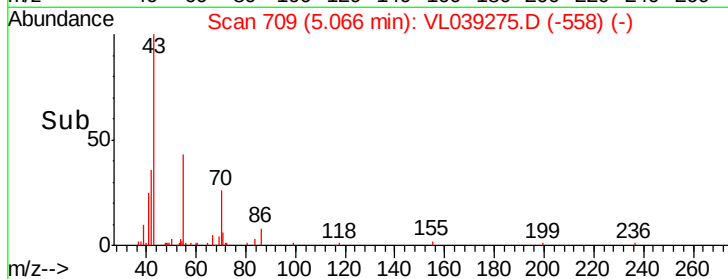
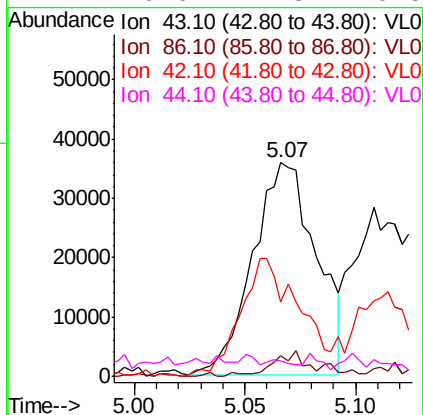
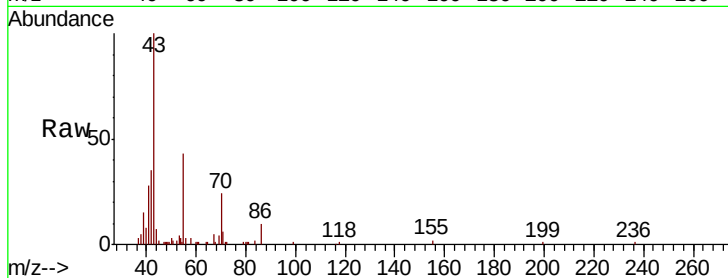
Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





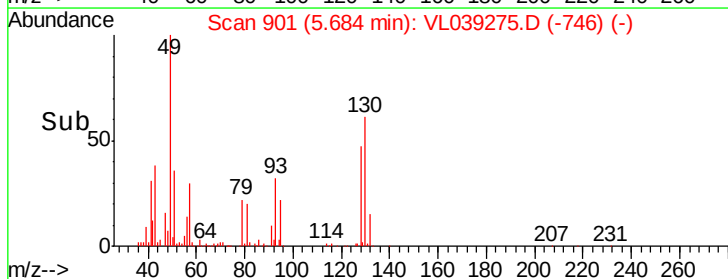
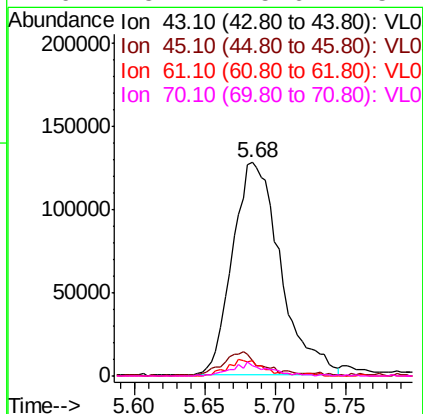
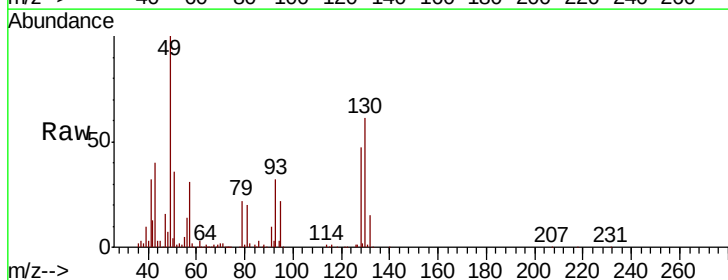
#23
 Vinyl Acetate
 Concen: 0.827 ppbv
 RT: 5.07
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Jun 2022 0:52

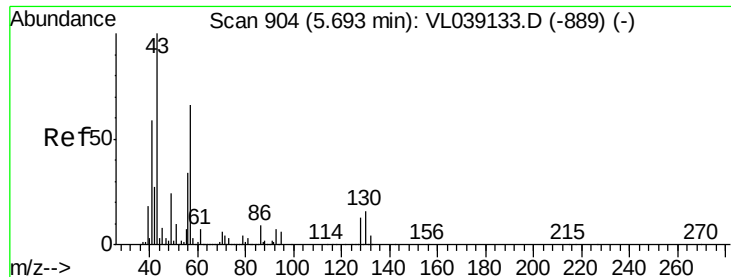
Tot Ion:	43	Resp:	71641
Ion	Ratio	Lower	Upper
43	100		
86	9.8	6.0	9.0#
42	34.2	8.2	12.4#
44	0.6	4.3	6.5#



#25
 Ethyl Acetate
 Concen: 1.292 ppbv
 RT: 5.68 min Scan# 901
 Delta R.T. -0.00 min
 Lab File: VL039275.D
 Acq: 14 Jun 2022 6:52

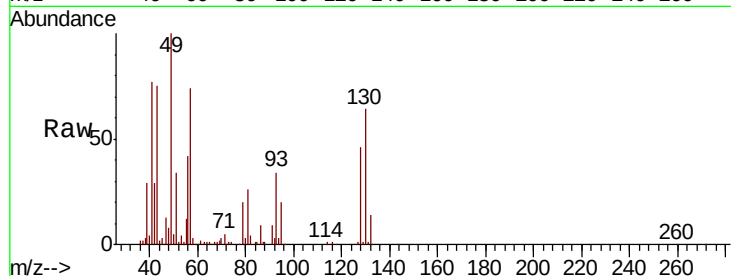
Tgt Ion:	43	Resp:	304842
Ion	Ratio	Lower	Upper
43	100		
45	10.2	8.2	12.2
61	6.3	8.4	12.6#
70	5.1	5.6	8.4#



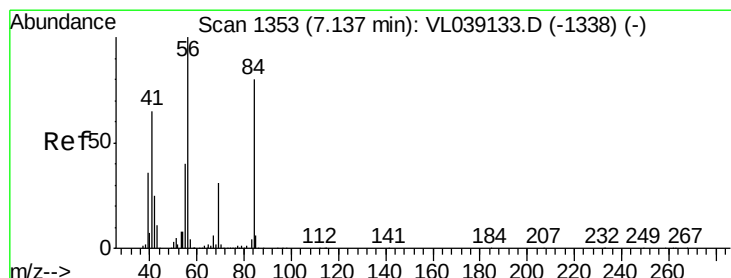
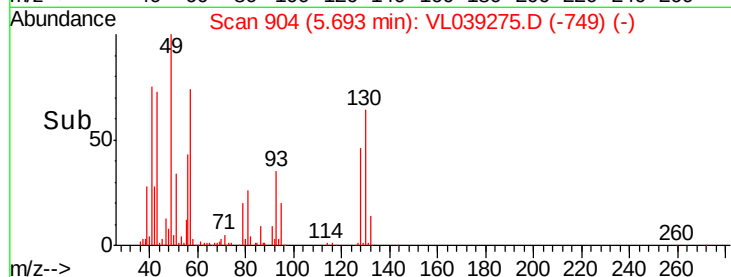
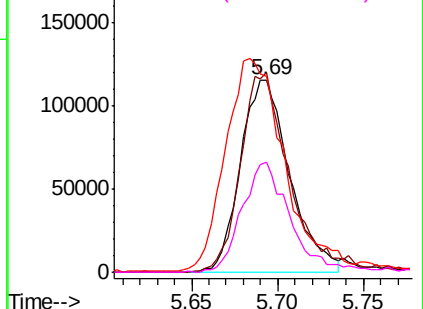


#26
Hexane
Concen: 2.212 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 0:52

Tot Ion	57	Resp	229353
Ion	Ratio	Lower	Upper
57	100		
41	104.2	72.4	108.6
43	137.6	187.0	280.6#
56	57.4	41.8	62.6

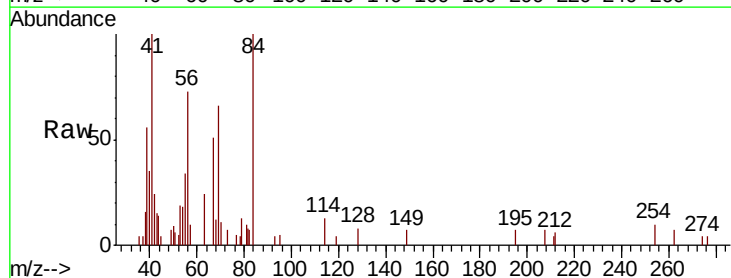


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

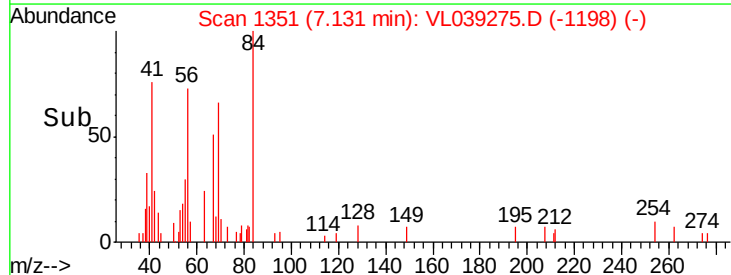
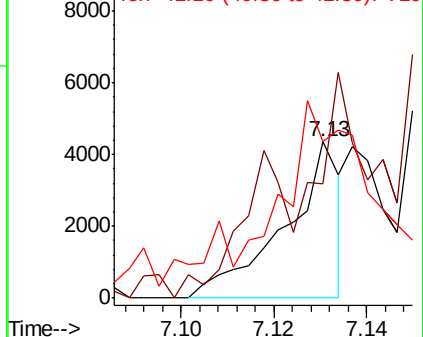


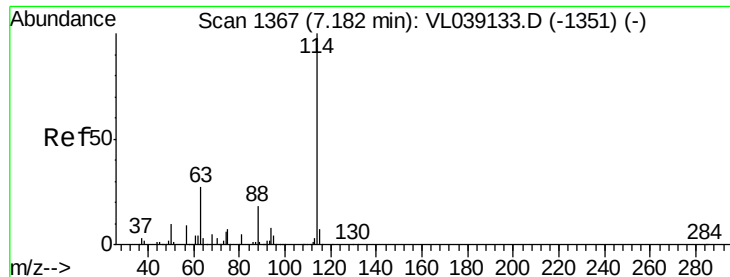
#30
Cyclohexane
Concen: 0.041 ppbv
RT: 7.13 min Scan# 1351
Delta R.T. -0.01 min
Lab File: VL039275.D
Acq: 14 Jun 2022 6:52

Tgt Ion	84	Resp	3551
Ion	Ratio	Lower	Upper
84	100		
56	0.0	110.6	165.8#
41	337.8	68.9	103.3#



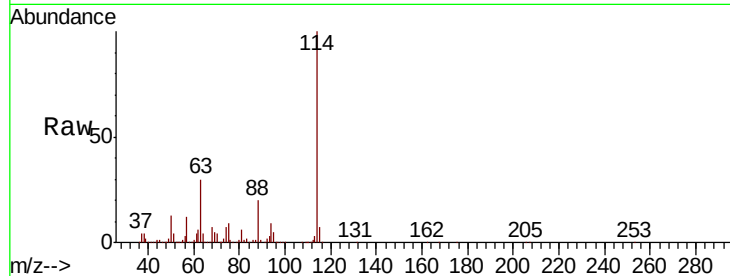
Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0



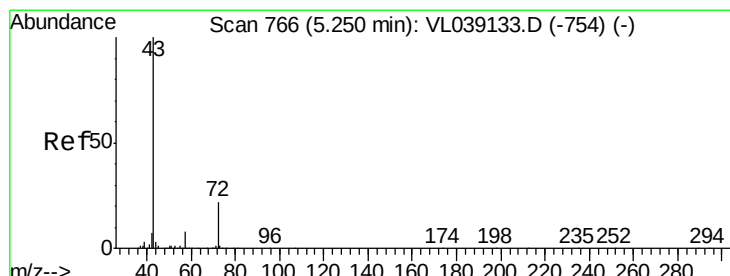
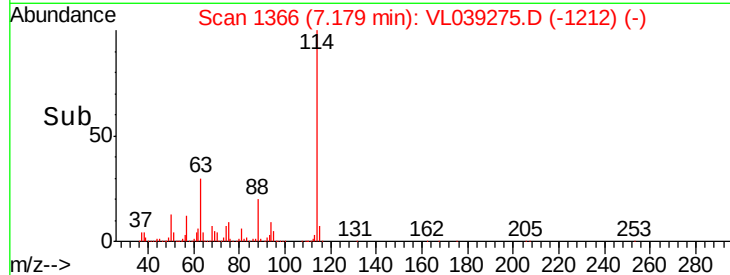
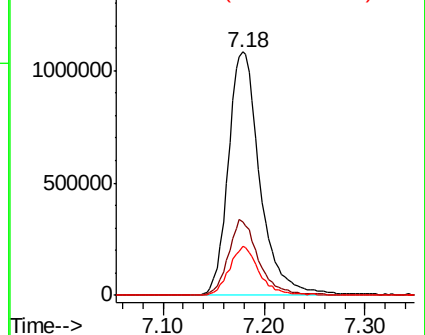


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Jun 2022 6:52

Tot Ion	114	Resp: 2371168	
Ion	Ratio	Lower	Upper
114	100		
63	29.7	21.7	32.5
88	19.3	14.8	22.2

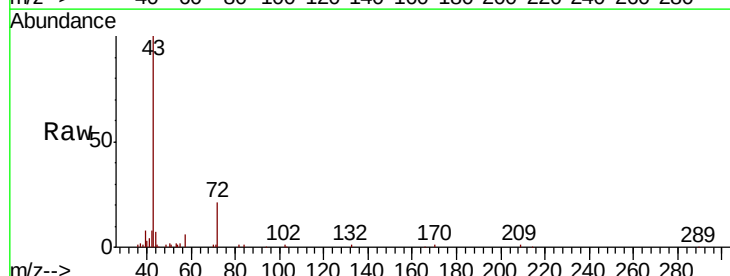


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

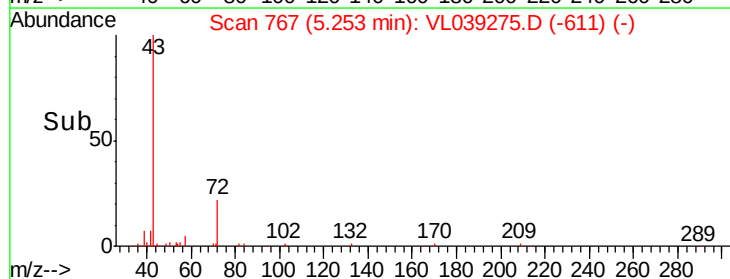
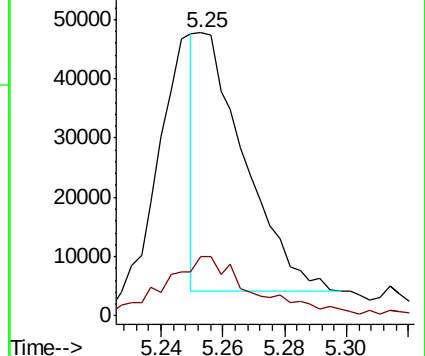


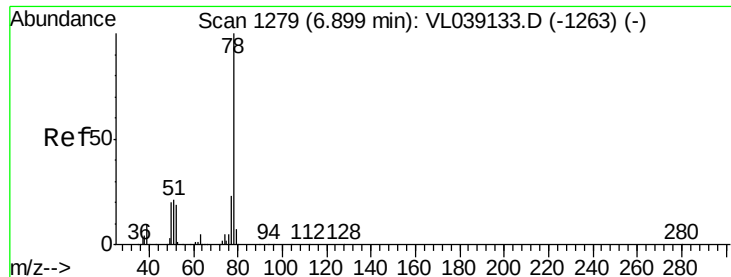
#34
 2-Butanone
 Concen: 0.363 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.00 min
 Lab File: VL039275.D
 Acq: 14 Jun 2022 6:52

Tgt Ion: 43	Resp: 46716
Ion Ratio	Lower Upper
43 100	
72 46.5	18.2 27.2#



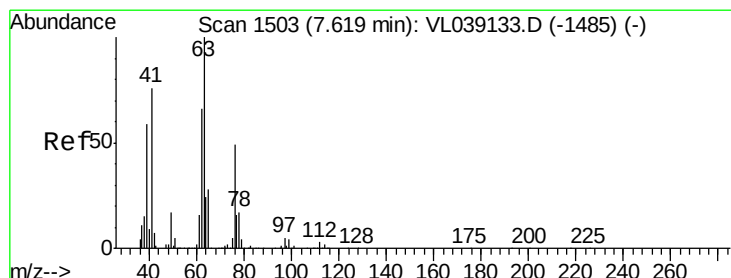
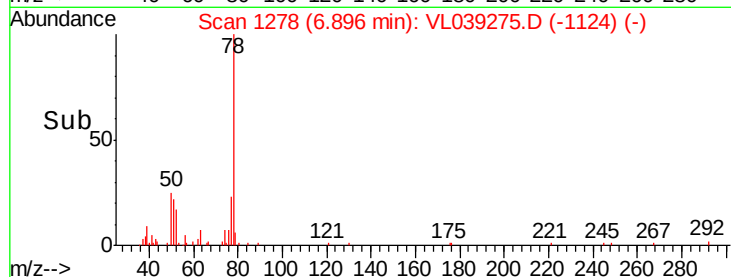
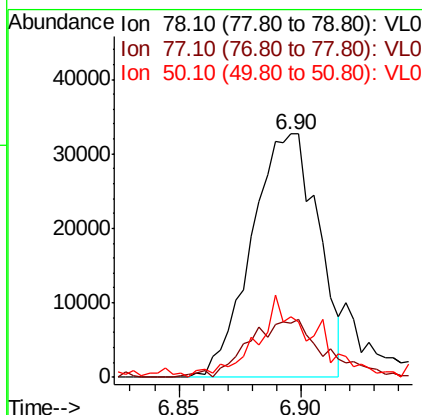
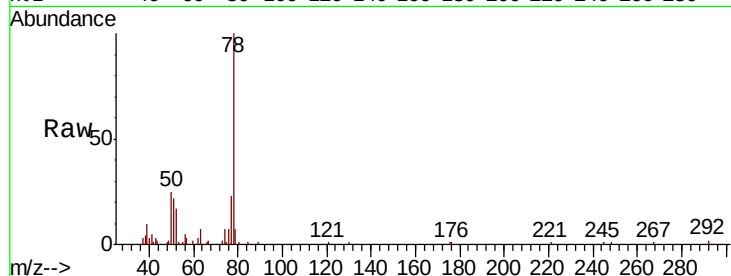
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





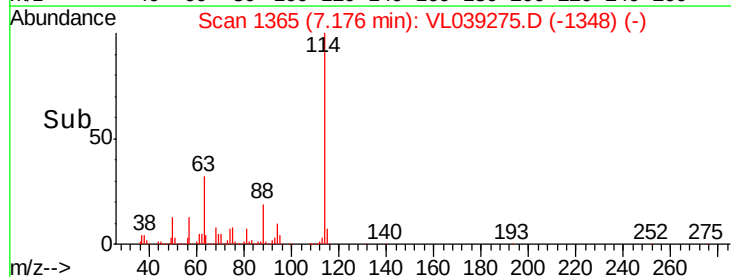
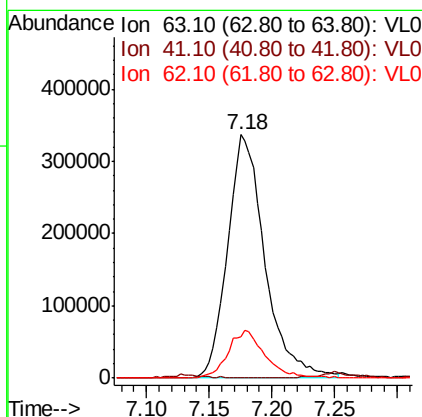
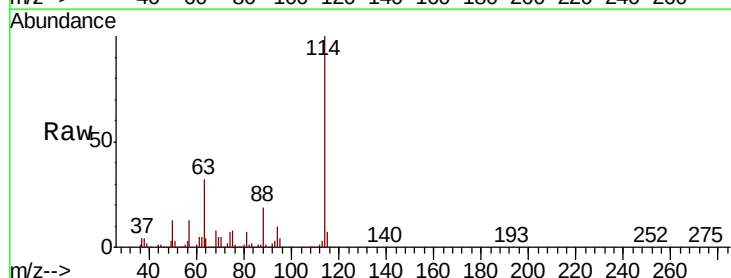
#36
Benzene
Concen: 0.320 ppbv
RT: 6.90
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 6:52

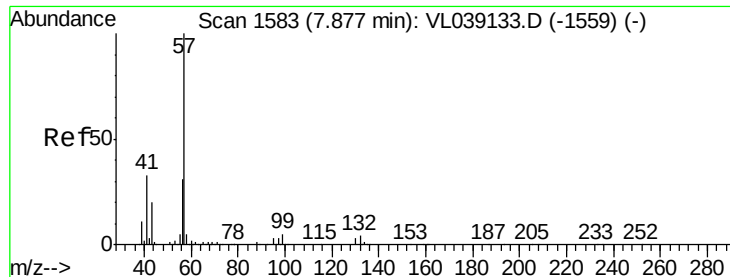
Tot Ion	78	Resp	61593
Ion Ratio	Lower	Upper	
78	100		
77	21.5	18.6	27.8
50	24.7	15.8	23.8#



#39
1,2-Dichloropropane
Concen: 9.053 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.44 min
Lab File: VL039275.D
Acq: 14 Jun 2022 6:52

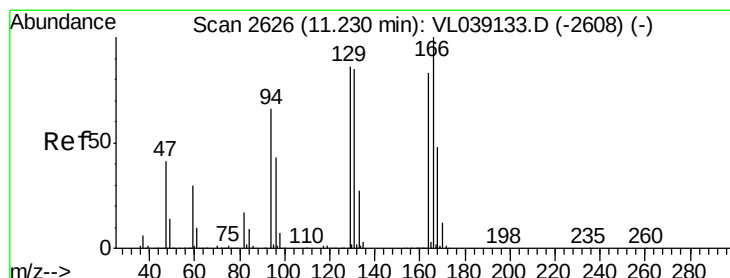
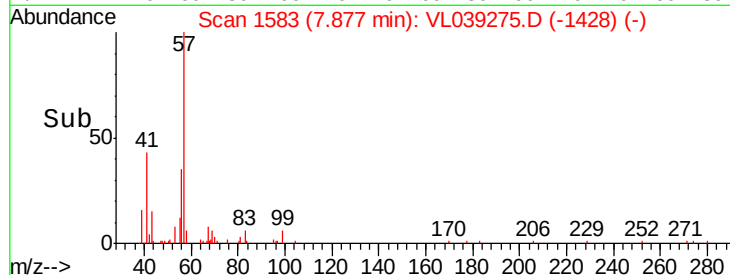
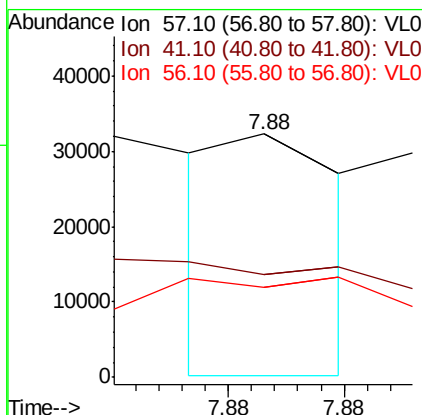
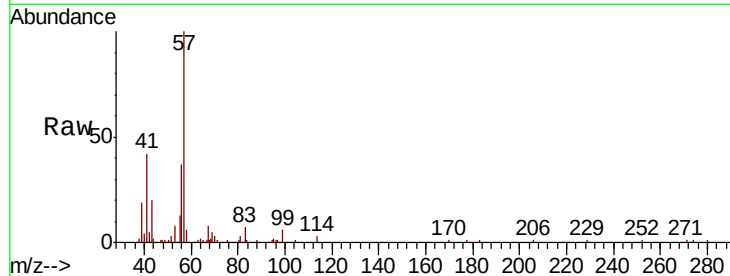
Tgt Ion	63	Resp	693200
Ion Ratio	Lower	Upper	
63	100		
41	0.0	60.8	91.2#
62	17.1	52.9	79.3#





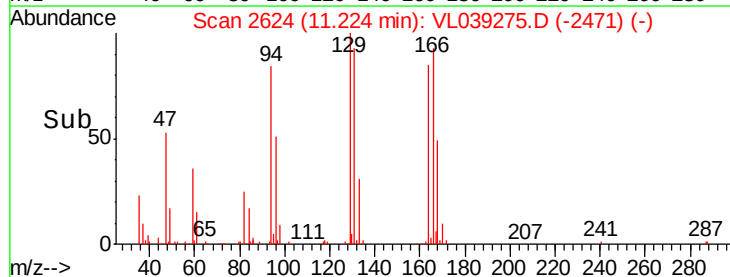
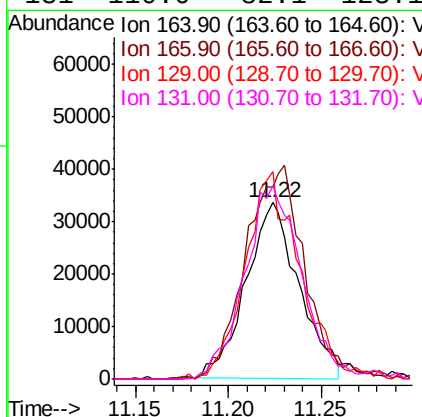
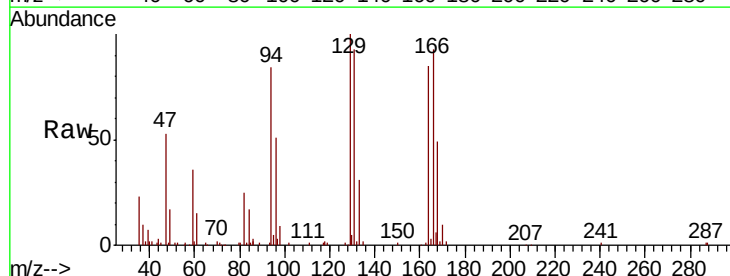
#44
2,2,4-Trimethylpentane
Concen: 0.034 ppbv
RT: 7.88
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 8:52

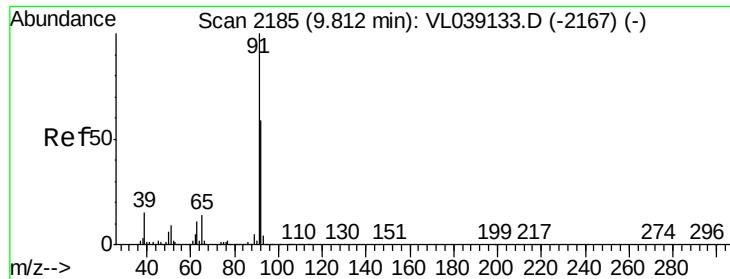
Tot Ion	57	Resp	11391
Ion Ratio	100		
Lower	26.2		
Upper	39.4		
56	0.0	24.7	37.1



#52
Tetrachloroethene
Concen: 0.894 ppbv
RT: 11.22 min Scan# 2624
Delta R.T. -0.01 min
Lab File: VL039275.D
Acq: 14 Jun 2022 6:52

Tgt Ion	164	Resp	67183
Ion Ratio	100		
Lower	96.3		
Upper	144.5		
166	108.4	82.5	123.7
129	115.8	82.1	123.1
131	110.0		





#53

Toluene

Concen: 0.512 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

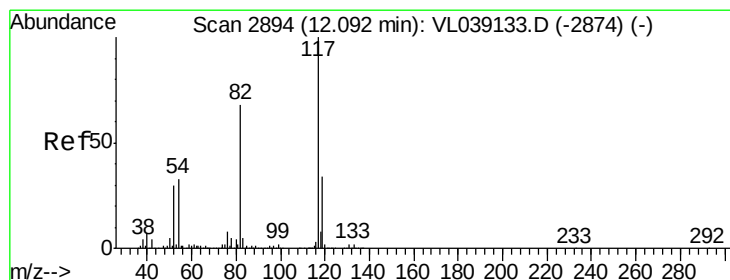
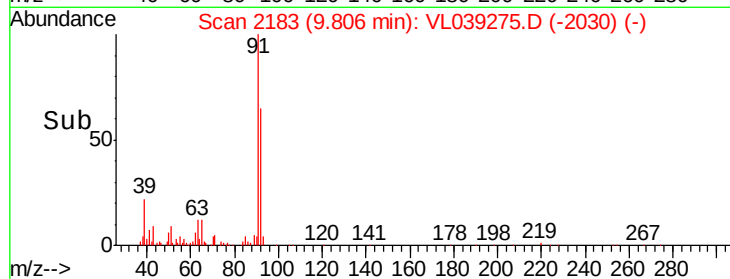
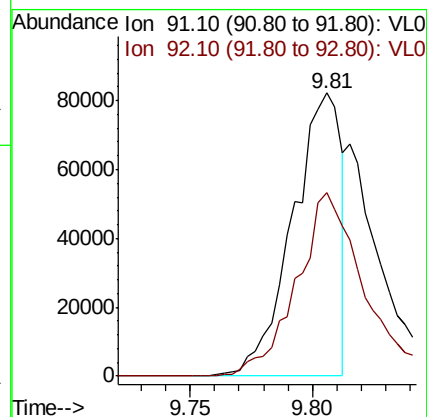
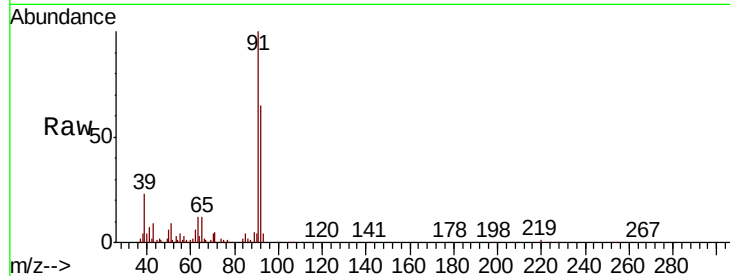
Acq: 14 Jun 2022 6:52

Tot Ion: 91 Resp: 113497

Ion Ratio Lower Upper

91 100

92 92.4 48.1 72.1#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL039275.D

Acq: 14 Jun 2022 6:52

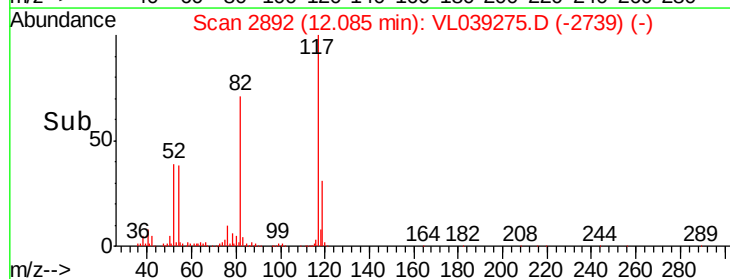
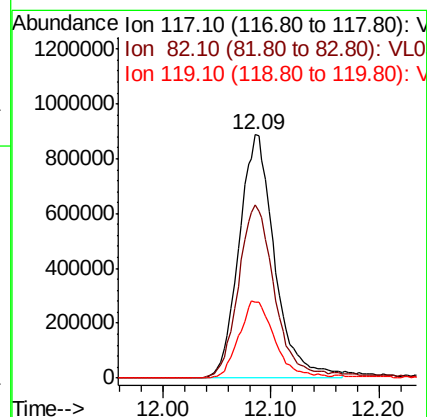
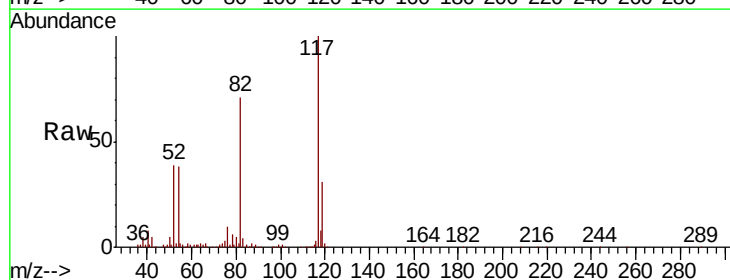
Tgt Ion: 117 Resp: 2045799

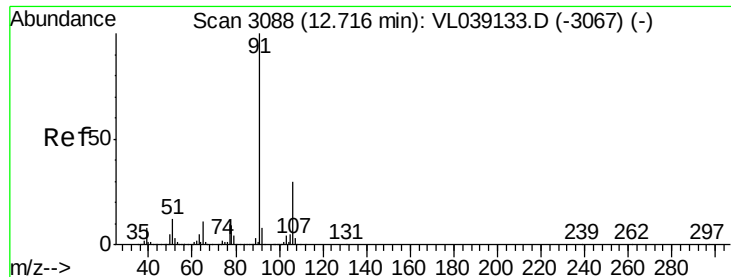
Ion Ratio Lower Upper

117 100

82 75.2 55.1 82.7

119 32.8 24.7 37.1





#58

Ethyl Benzene

Concen: 0.063 ppbv

RT: 12.71

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

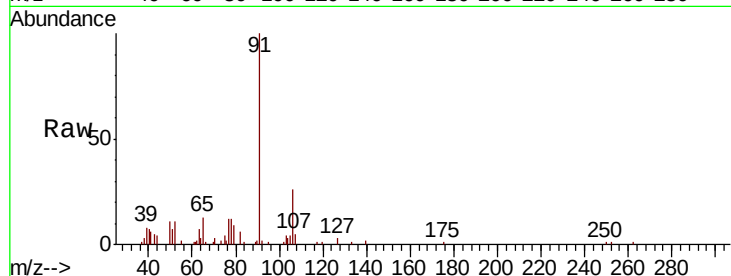
Acq: 14 Jun 2022 6:52

Tot Ion: 91 Resp: 17675

Ion Ratio Lower Upper

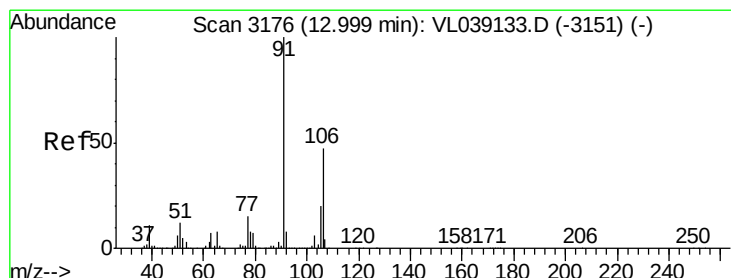
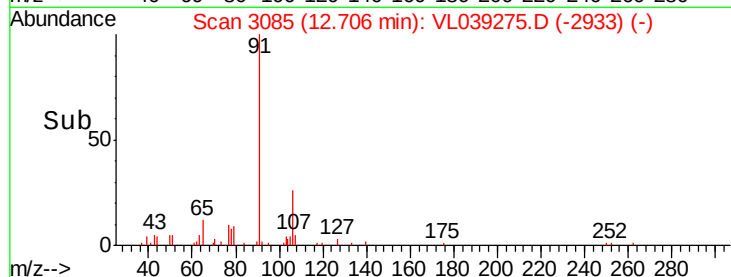
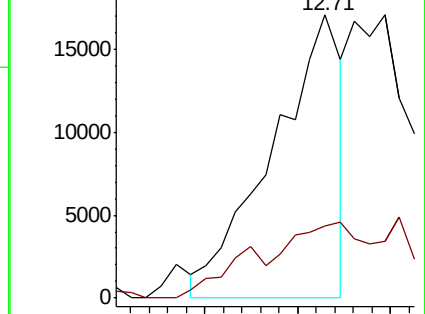
91 100

106 24.8 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: 0.045 ppbv

RT: 12.99 min Scan# 3174

Delta R.T. -0.01 min

Lab File: VL039275.D

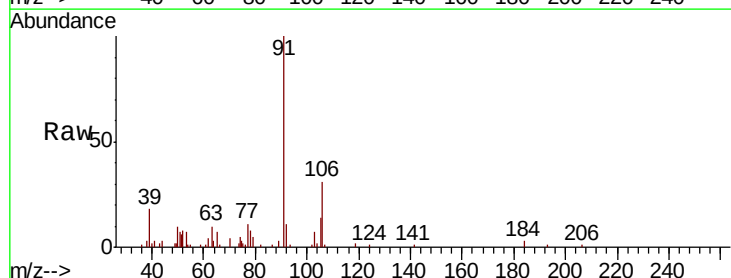
Acq: 14 Jun 2022 6:52

Tgt Ion: 91 Resp: 11112

Ion Ratio Lower Upper

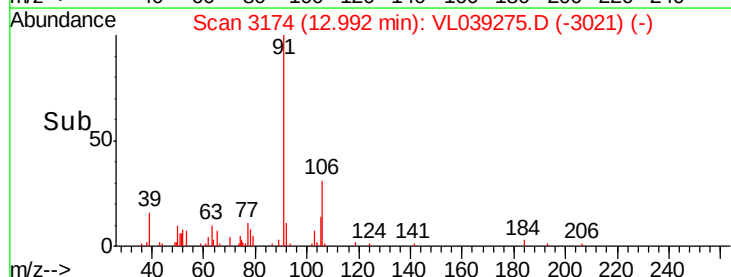
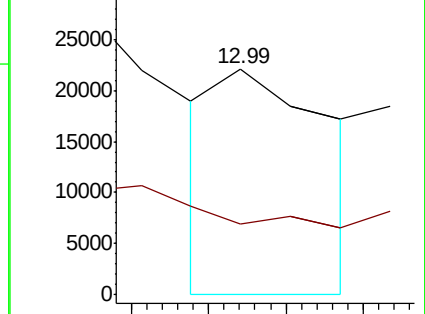
91 100

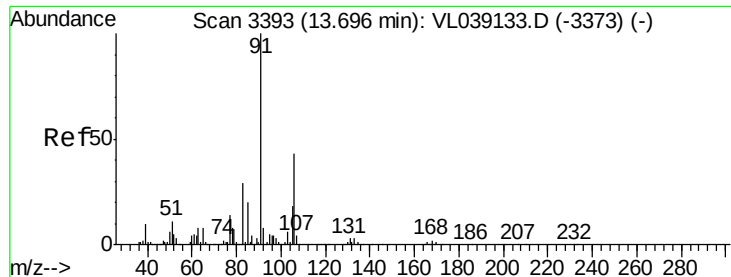
106 0.0 34.3 51.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0

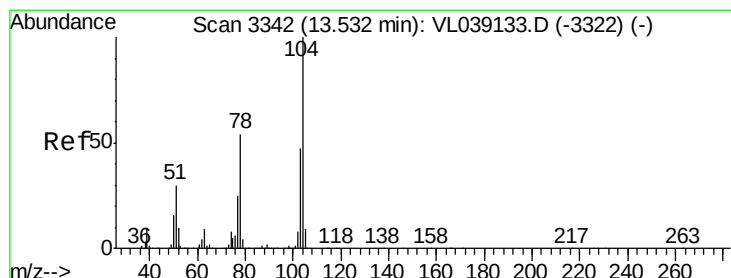
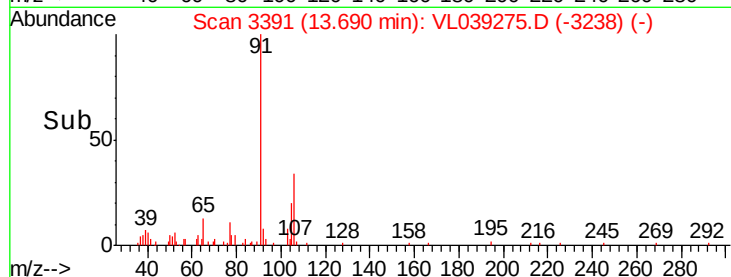
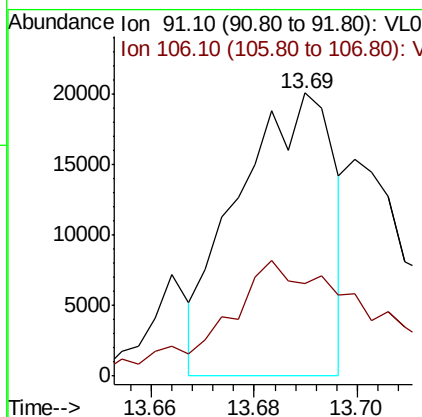
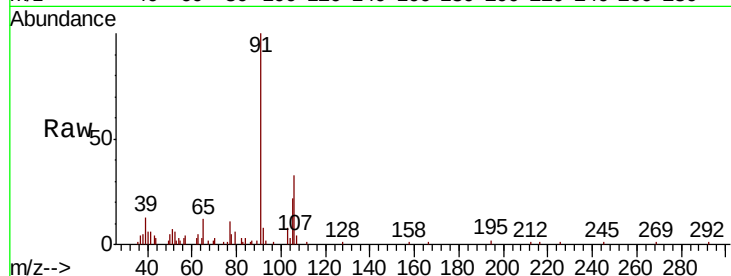
Ion 106.10 (105.80 to 106.80): V





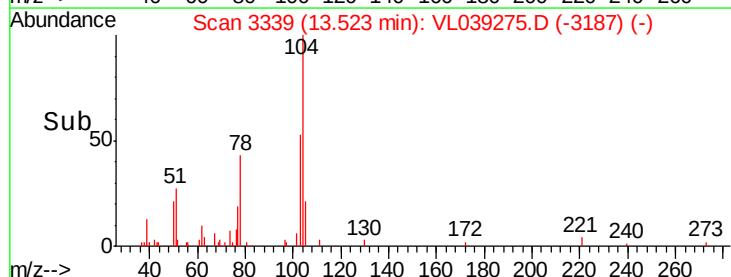
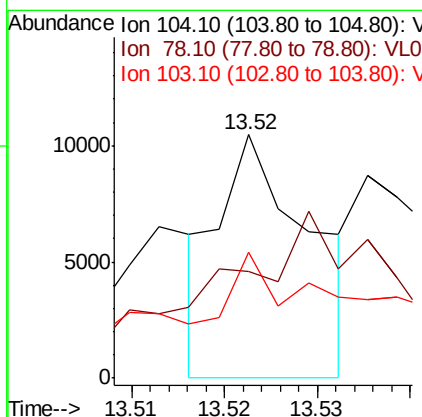
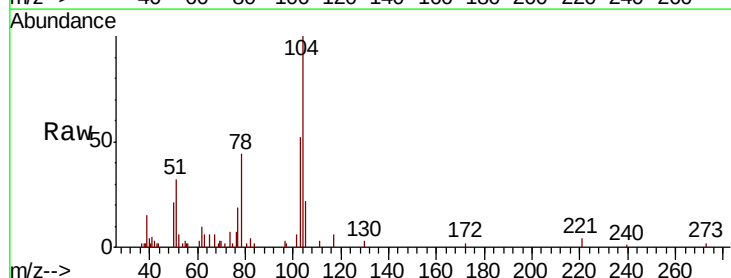
#60
o-Xylene
Concen: 0.111 ppbv
RT: 13.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 0:52

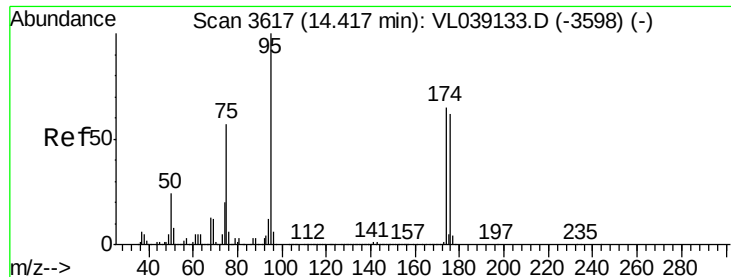
Tot Ion: 91 Resp: 25983
Ion Ratio Lower Upper
91 100
106 67.5 22.3 66.9#



#61
Styrene
Concen: 0.057 ppbv
RT: 13.52 min Scan# 3339
Delta R.T. -0.01 min
Lab File: VL039275.D
Acq: 14 Jun 2022 6:52

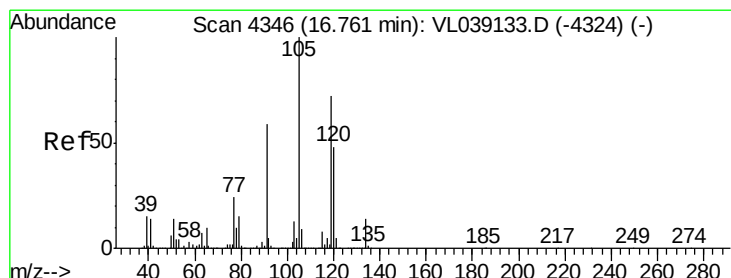
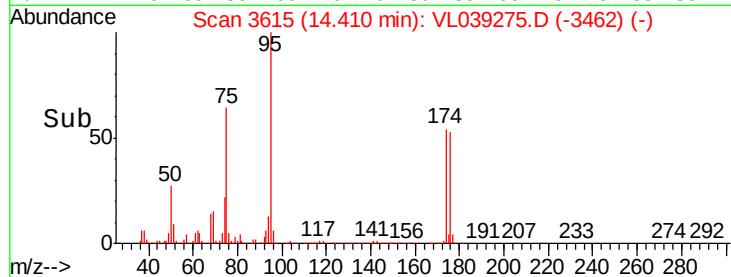
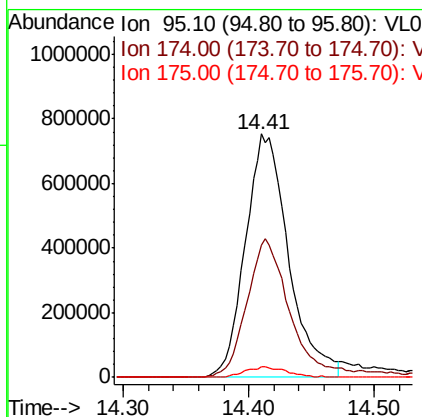
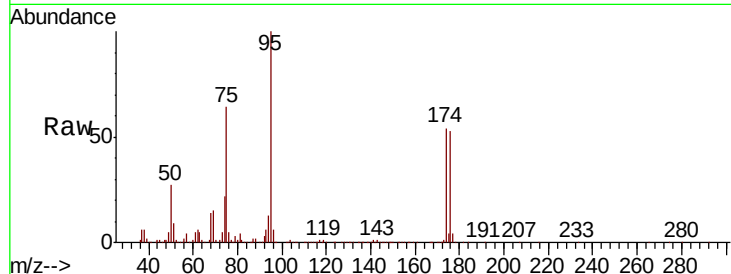
Tgt Ion: 104 Resp: 7083
Ion Ratio Lower Upper
104 100
78 0.0 45.7 68.5#
103 143.2 39.6 59.4#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.678 ppbv
 RT: 14.41 min
 Delta R.T.: 0.00 min
 Lab File: VL039275.D
 Acq: 14 Jun 2022 6:52

Tot Ion:	95	Resp:	1805945
Ion	Ratio	Lower	Upper
95	100		
174	58.3	53.8	80.8
175	4.4	4.1	6.1



#74
 1,2,4-Trimethylbenzene
 Concen: 0.111 ppbv
 RT: 16.76 min Scan# 4345
 Delta R.T.: -0.00 min
 Lab File: VL039275.D
 Acq: 14 Jun 2022 6:52

Tgt Ion:	105	Resp:	30652
Ion	Ratio	Lower	Upper
105	100		
120	41.6	38.1	57.1
91	17.6	47.4	71.0#
77	11.4	19.5	29.3#

