

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061322\
 Data File : VL039269.D
 Acq On : 14 Jun 2022 2:39
 Operator : SY/AP
 Sample : N3306-04 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2

Quant Time: Jun 14 08:07:44 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	1027169	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2434901	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2055457	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1803367	10.61	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.10%

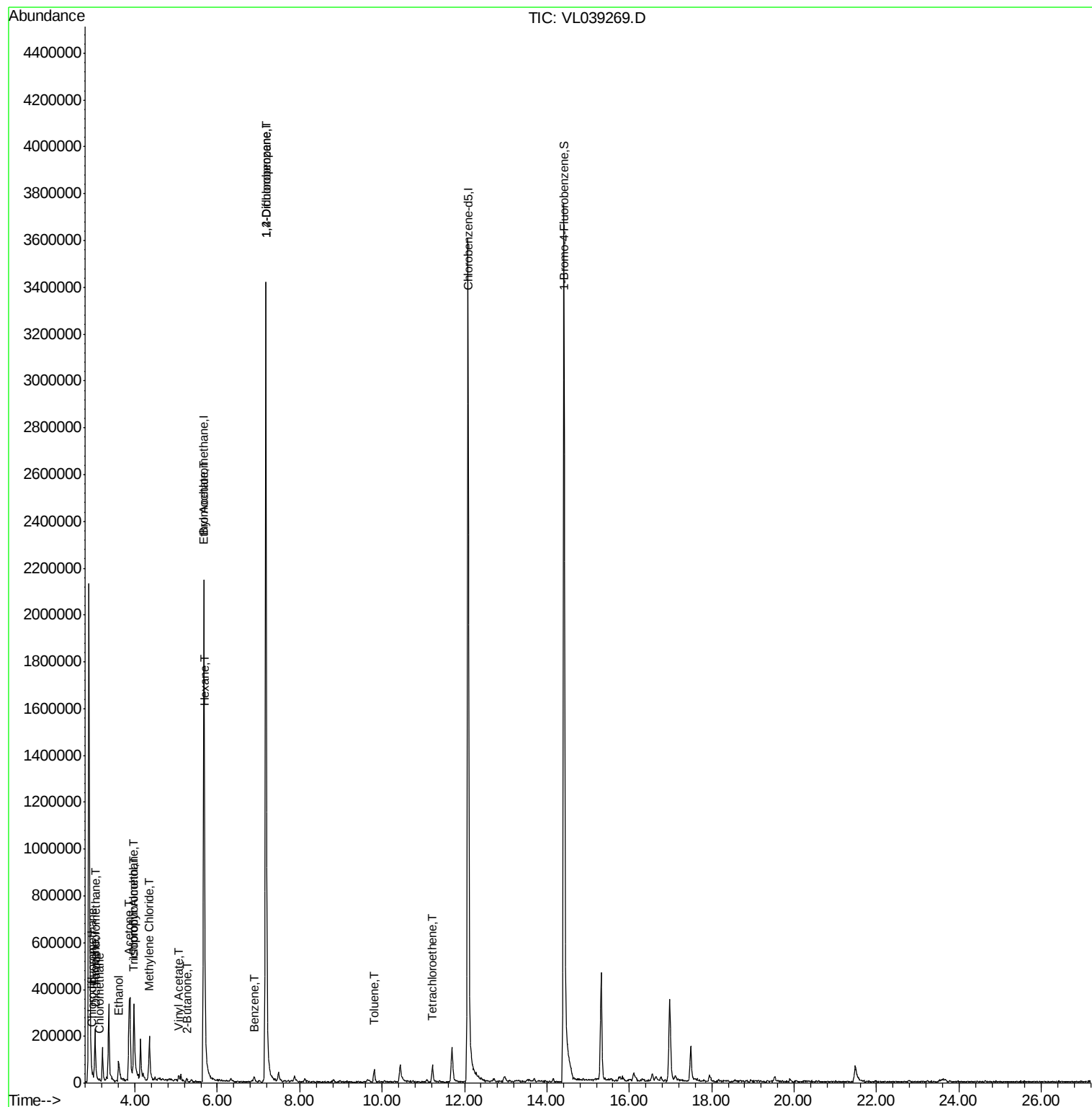
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	16585	0.092	ppbv	90
3) Chlorodifluoromethane	2.97	51	22127	0.169	ppbv	92
4) Chloromethane	3.15	50	7233	0.108	ppbv	100
9) Propene	3.02	41	57182	1.003	ppbv #	79
11) Trichlorofluoromethane	3.96	101	7394	0.045	ppbv #	68
13) Ethanol	3.61	45	91792	29.535	ppbv #	100
15) Acetone	3.85	43	533686	4.988	ppbv	91
19) Isopropyl Alcohol	3.97	45	383982	7.651	ppbv #	95
20) Methylene Chloride	4.35	84	76142	1.689	ppbv	92
23) Vinyl Acetate	5.07	43	5187	0.059	ppbv #	30
25) Ethyl Acetate	5.68	43	57359	0.238	ppbv #	94
26) Hexane	5.69	57	47806	0.451	ppbv #	61
34) 2-Butanone	5.26	43	12871	0.097	ppbv #	74
36) Benzene	6.89	78	10674	0.054	ppbv #	89
39) 1,2-Dichloropropane	7.18	63	721664	9.178	ppbv #	25
52) Tetrachloroethene	11.22	164	7193	0.093	ppbv #	44
53) Toluene	9.80	91	16915	0.074	ppbv #	24

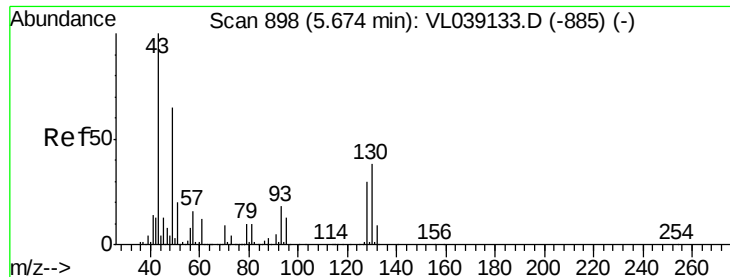
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: SS-2

Acq: 14 Jun 2022 2:39

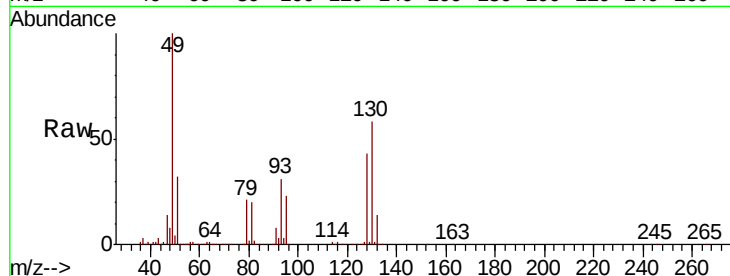
Tot Ion: 49 Resp: 1027169

Ion Ratio Lower Upper

49 100

128 49.1 24.7 74.1

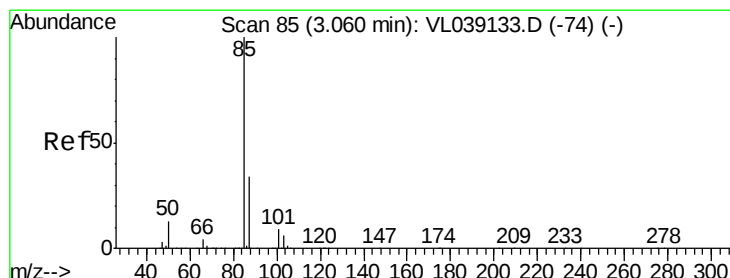
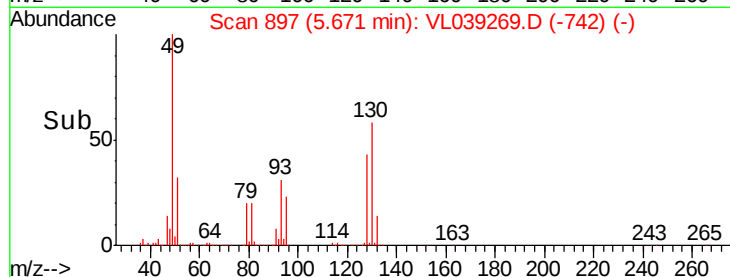
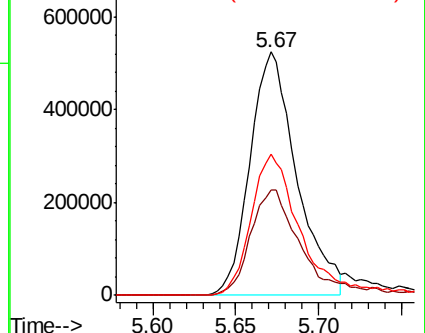
130 63.2 31.4 94.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.092 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.01 min

Lab File: VL039269.D

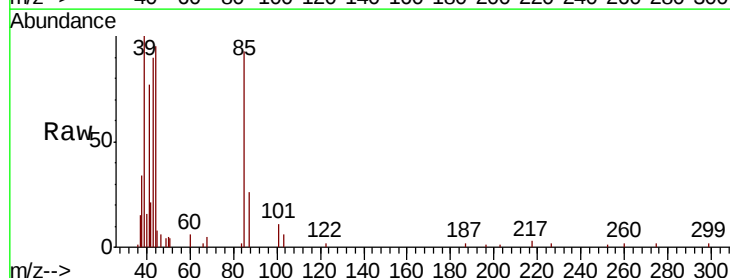
Acq: 14 Jun 2022 2:39

Tgt Ion: 85 Resp: 16585

Ion Ratio Lower Upper

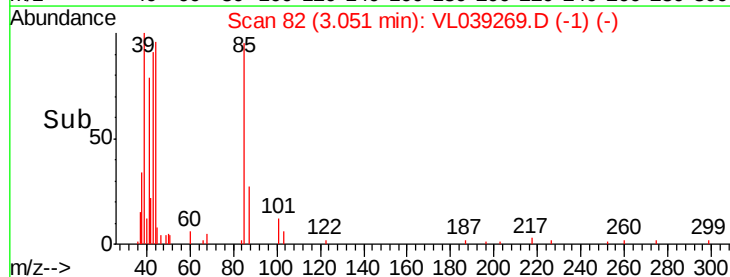
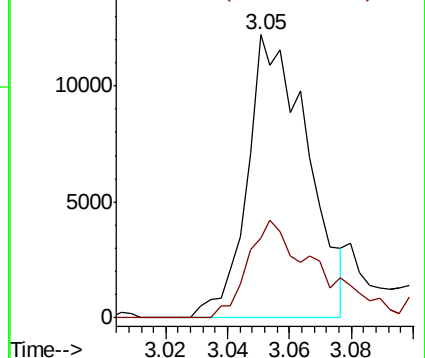
85 100

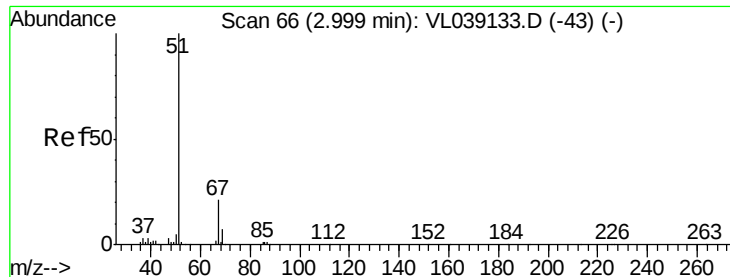
87 28.1 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.169 ppbv

RT: 2.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

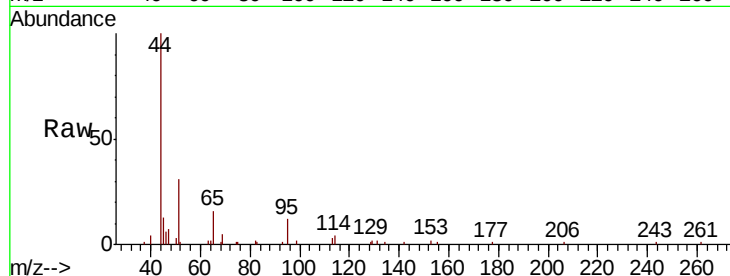
Acq: 14 Jun 2022 2:39

Tot Ion: 51 Resp: 22127

Ion Ratio Lower Upper

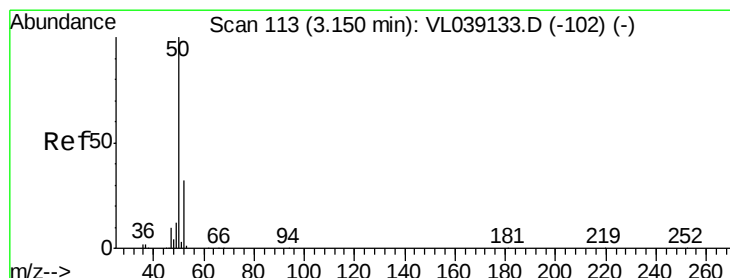
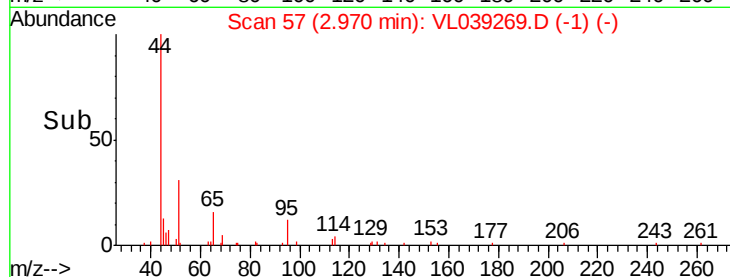
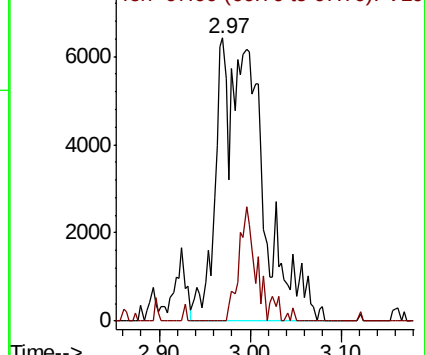
51 100

67 16.6 16.2 24.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.108 ppbv

RT: 3.15 min Scan# 112

Delta R.T. -0.00 min

Lab File: VL039269.D

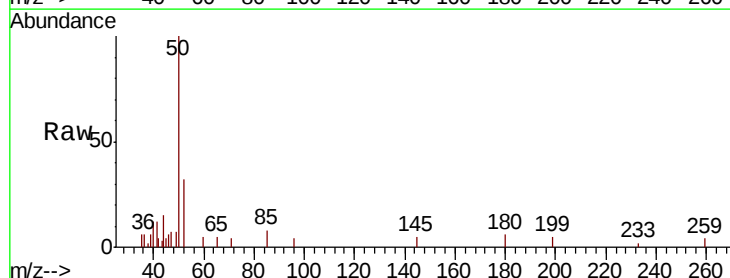
Acq: 14 Jun 2022 2:39

Tgt Ion: 50 Resp: 7233

Ion Ratio Lower Upper

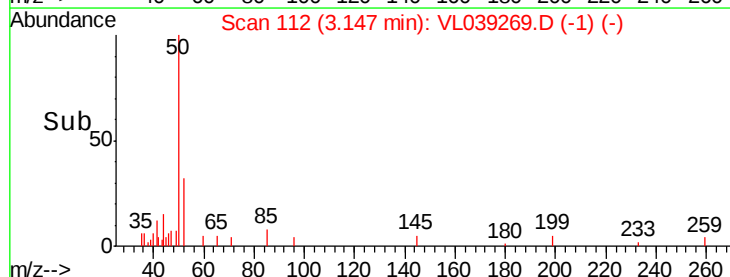
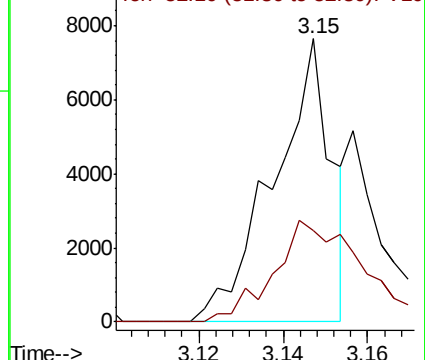
50 100

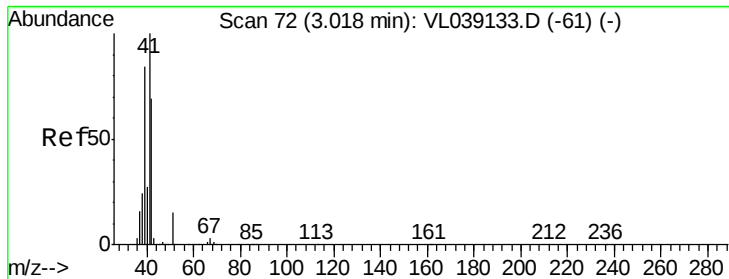
52 32.4 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.003 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

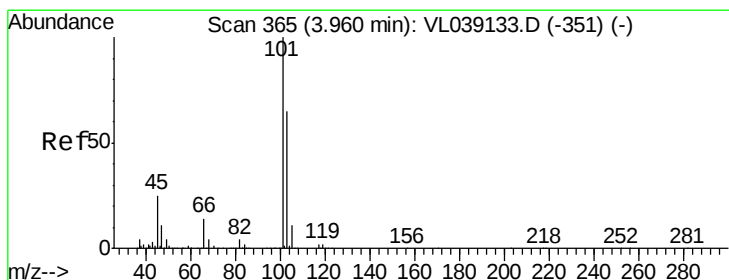
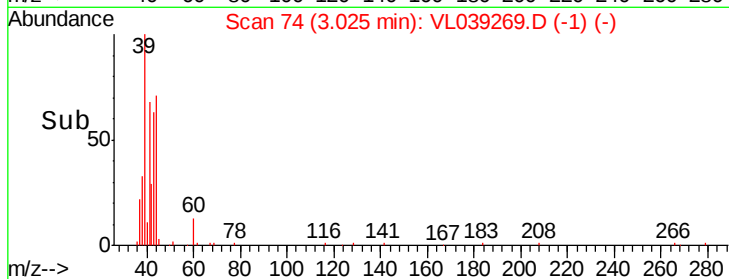
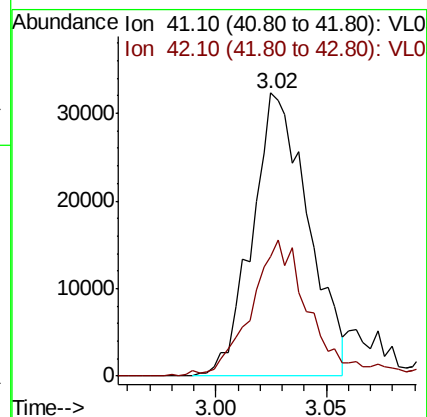
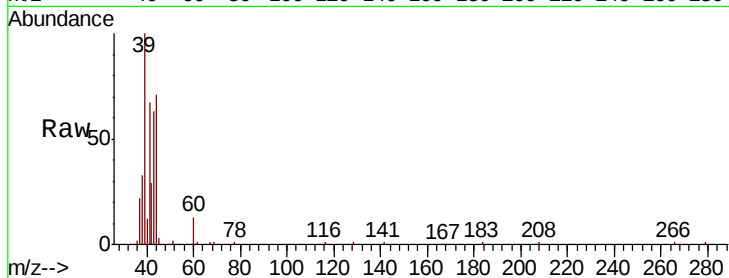
Acq: 14 Jun 2022 2:39

Tot Ion: 41 Resp: 57182

Ion Ratio Lower Upper

41 100

42 52.5 55.4 83.2#



#11

Trichlorofluoromethane

Concen: 0.045 ppbv

RT: 3.96 min Scan# 364

Delta R.T. -0.00 min

Lab File: VL039269.D

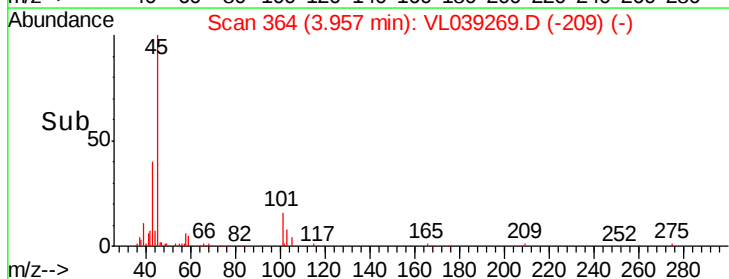
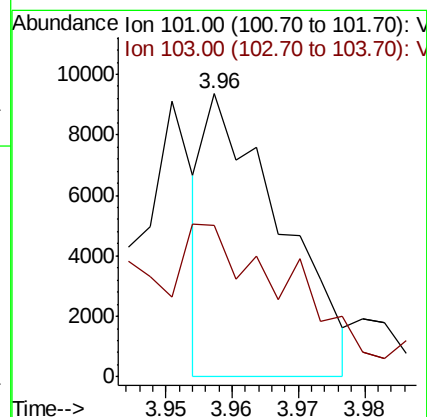
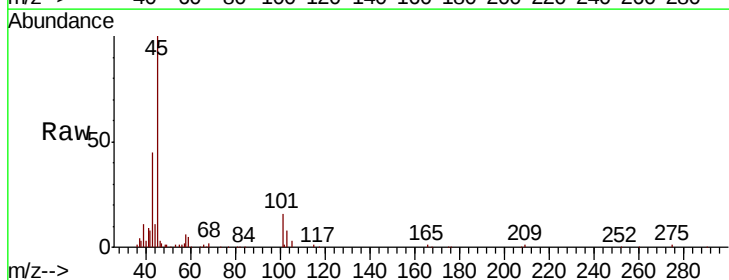
Acq: 14 Jun 2022 2:39

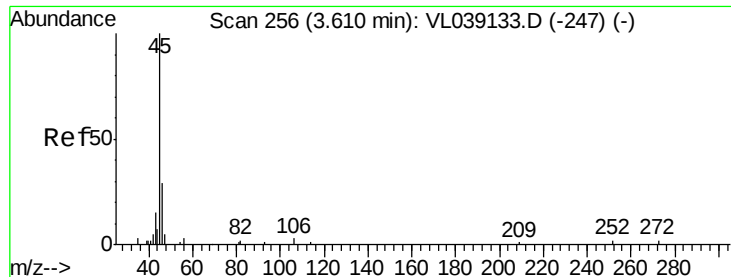
Tgt Ion: 101 Resp: 7394

Ion Ratio Lower Upper

101 100

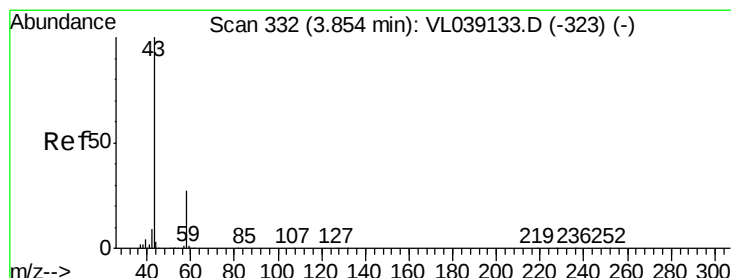
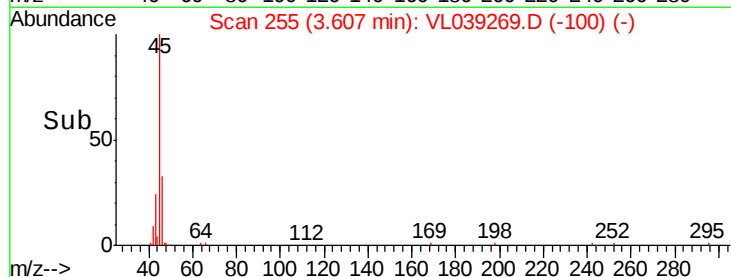
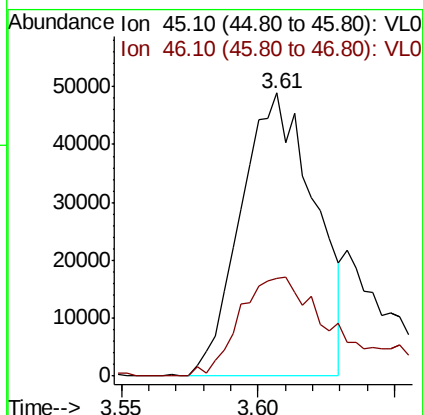
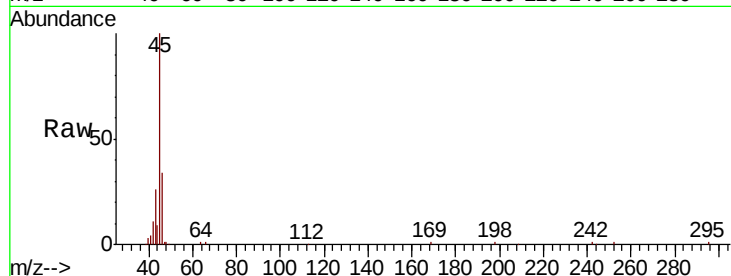
103 39.1 51.7 77.5#





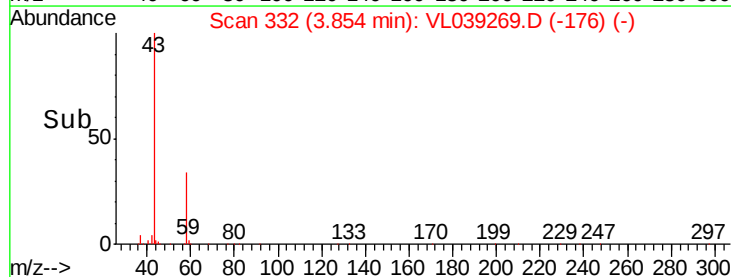
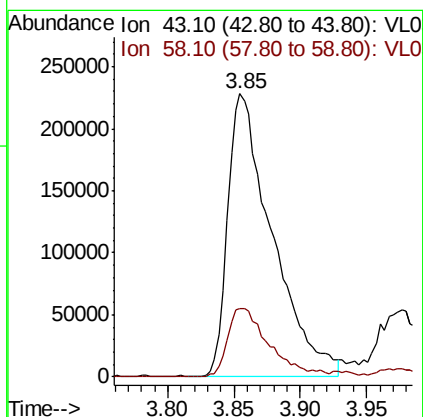
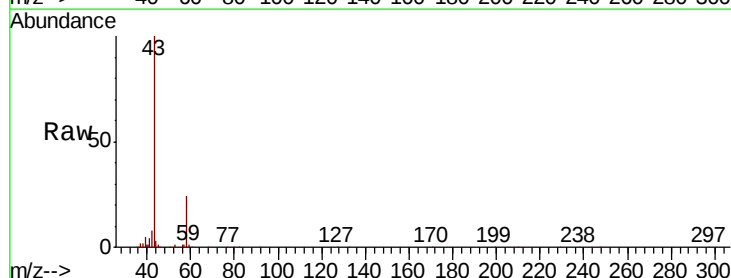
#13
Ethanol
Concen: 29.535 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 2:39

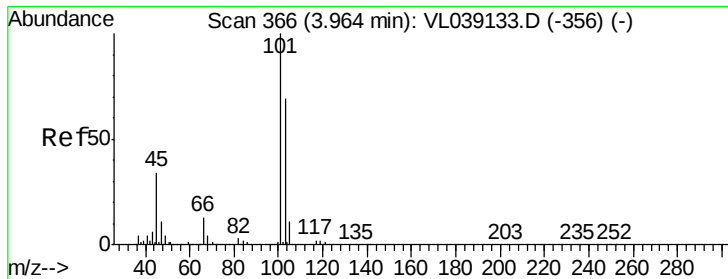
Tot Ion: 45 Resp: 91792
Ion Ratio Lower Upper
45 100
46 49.6 0.0 0.0#



#15
Acetone
Concen: 4.988 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.00 min
Lab File: VL039269.D
Acq: 14 Jun 2022 2:39

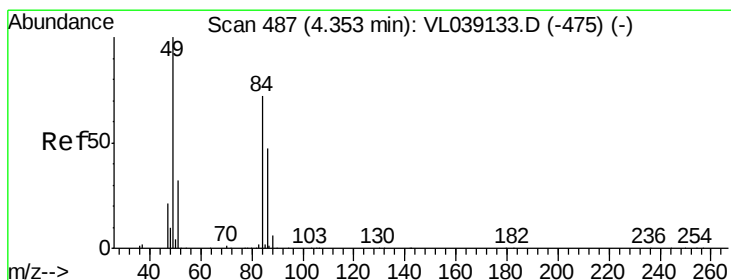
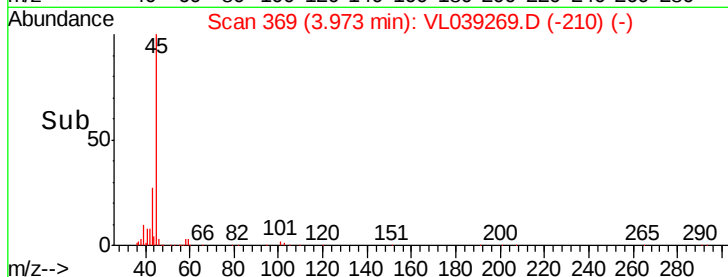
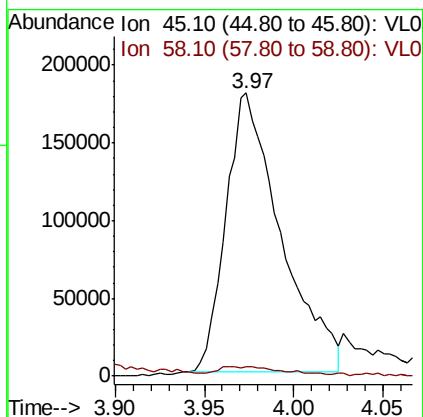
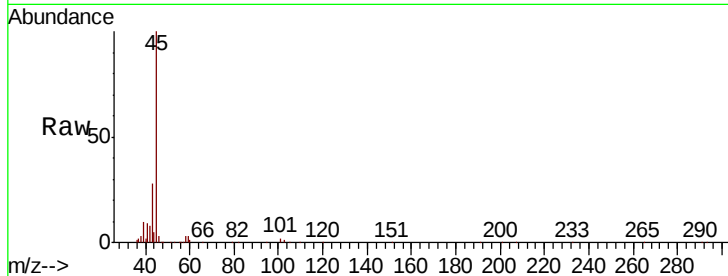
Tgt Ion: 43 Resp: 533686
Ion Ratio Lower Upper
43 100
58 23.5 22.5 33.7





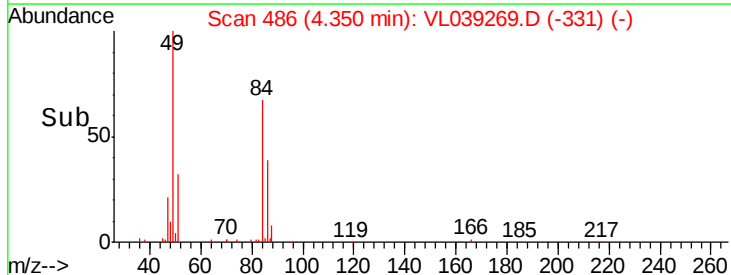
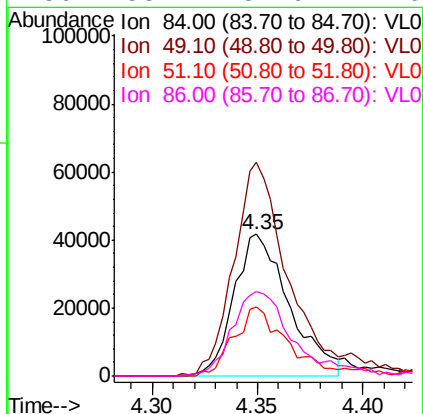
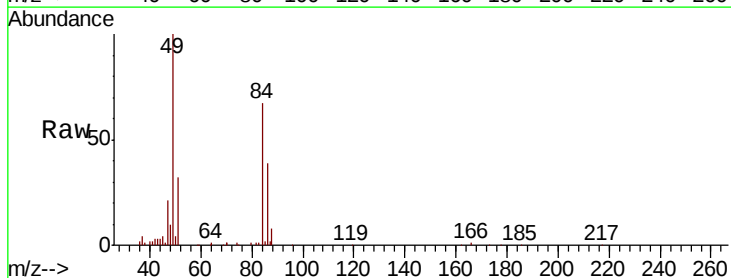
#19
Isopropyl Alcohol
Concen: 7.651 ppbv
RT: 3.97
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 2:39

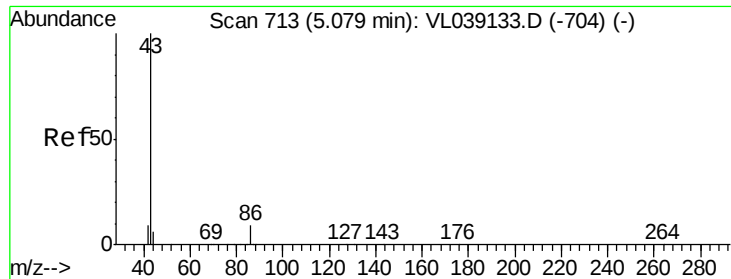
Tot Ion: 45 Resp: 383982
Ion Ratio Lower Upper
45 100
58 4.1 1.8 2.8#



#20
Methylene Chloride
Concen: 1.689 ppbv
RT: 4.35 min Scan# 486
Delta R.T.: -0.00 min
Lab File: VL039269.D
Acq: 14 Jun 2022 2:39

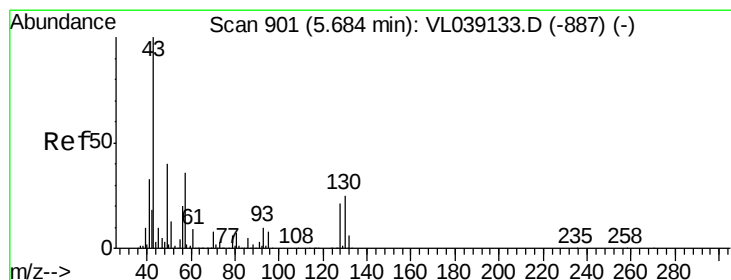
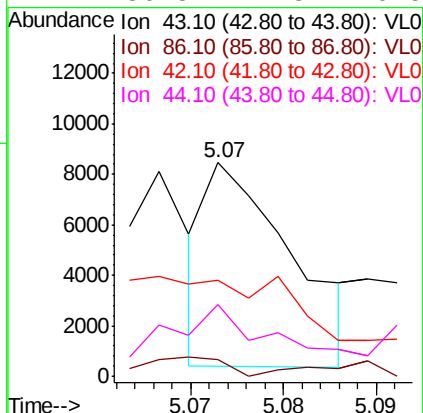
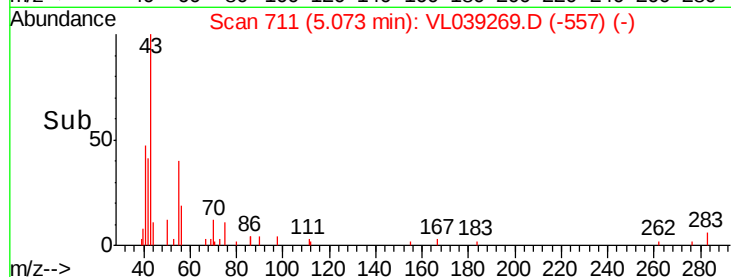
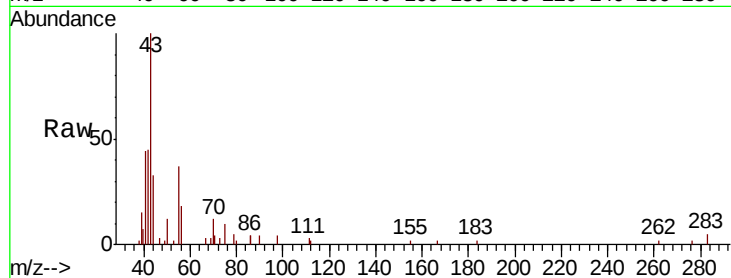
Tgt Ion: 84 Resp: 76142
Ion Ratio Lower Upper
84 100
49 149.4 111.1 166.7
51 48.7 35.3 52.9
86 58.2 51.9 77.9





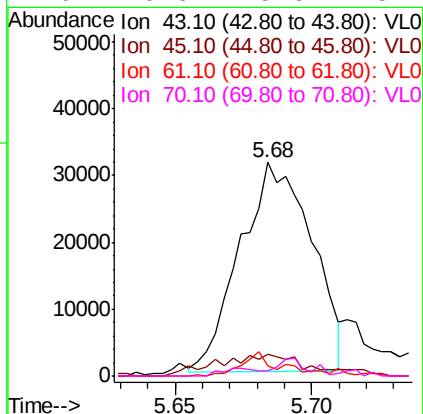
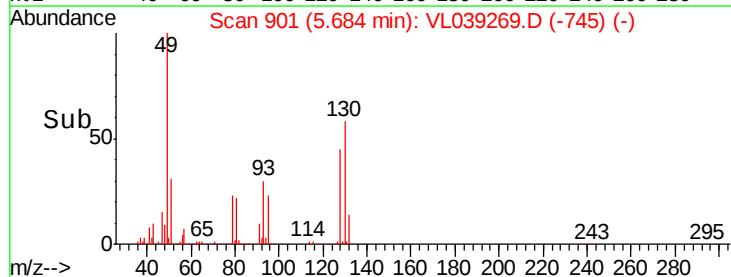
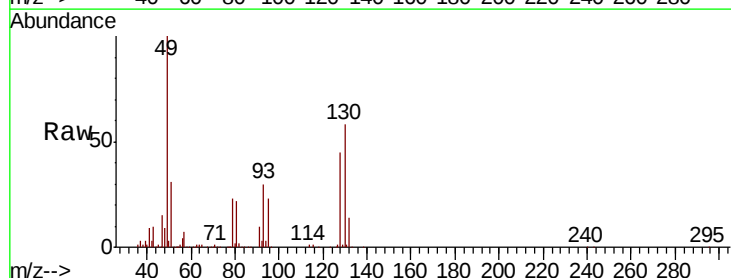
#23
 Vinyl Acetate
 Concen: 0.059 ppbv
 RT: 5.07
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SS-2
 Acq: 14 Jun 2022 2:39

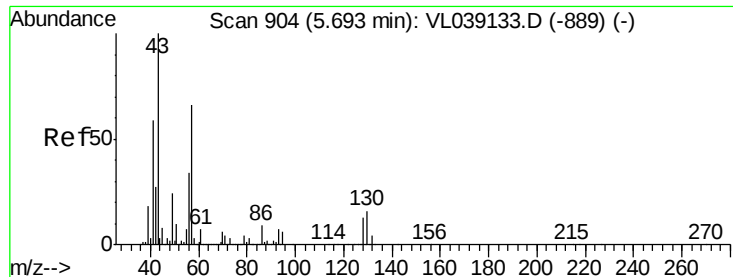
Tot Ion:	43	Resp:	5187
Ion	Ratio	Lower	Upper
43	100		
86	7.8	6.0	9.0
42	50.2	8.2	12.4#
44	36.8	4.3	6.5#



#25
 Ethyl Acetate
 Concen: 0.238 ppbv
 RT: 5.68 min Scan# 901
 Delta R.T. 0.00 min
 Lab File: VL039269.D
 Acq: 14 Jun 2022 2:39

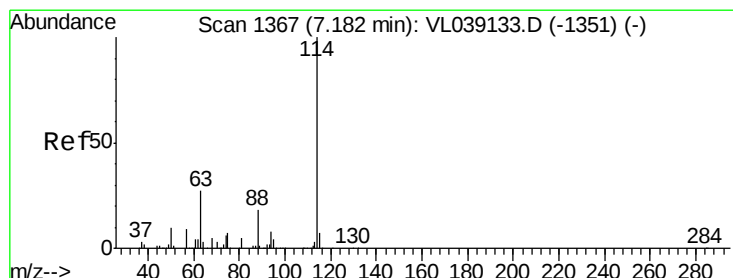
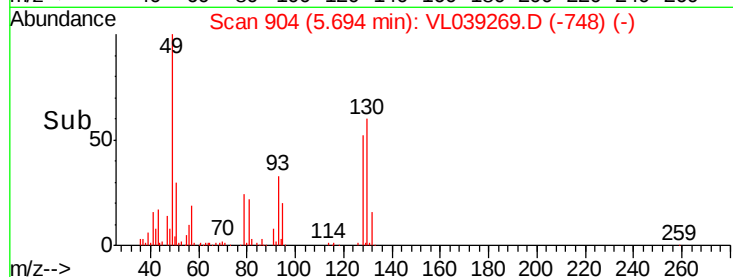
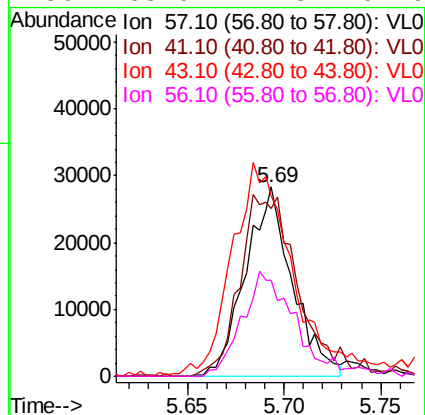
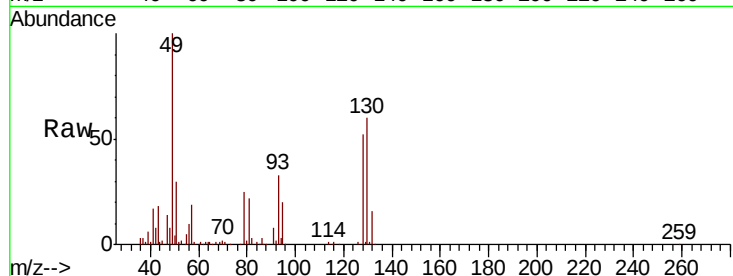
Tgt Ion:	43	Resp:	57359
Ion	Ratio	Lower	Upper
43	100		
45	13.5	8.2	12.2#
61	7.7	8.4	12.6#
70	6.6	5.6	8.4





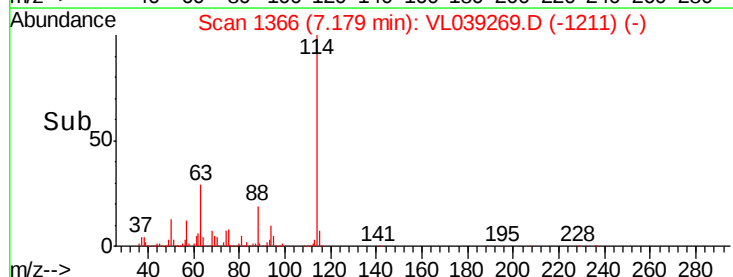
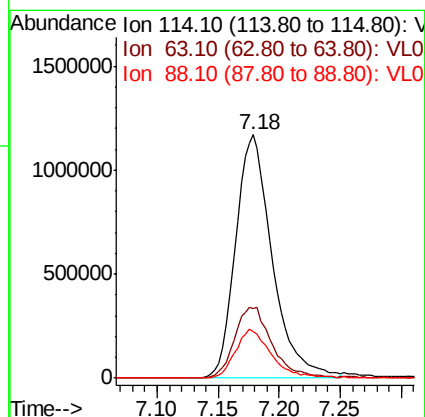
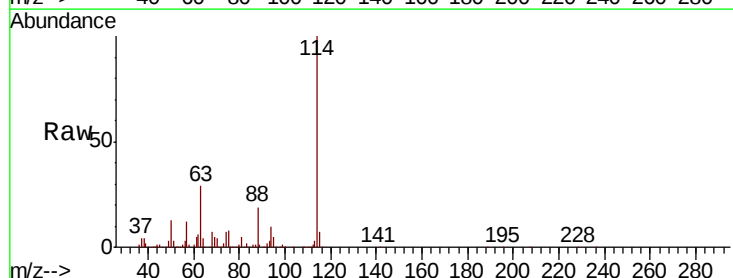
#26
Hexane
Concen: 0.451 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 2:39

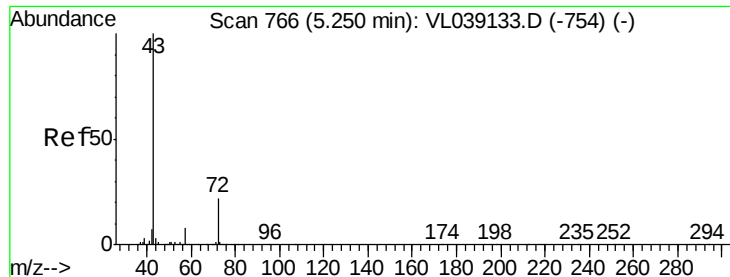
Tot Ion:	57	Resp:	47806
Ion	Ratio	Lower	Upper
57	100		
41	120.8	72.4	108.6#
43	157.7	187.0	280.6#
56	65.9	41.8	62.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1366
Delta R.T. -0.00 min
Lab File: VL039269.D
Acq: 14 Jun 2022 2:39

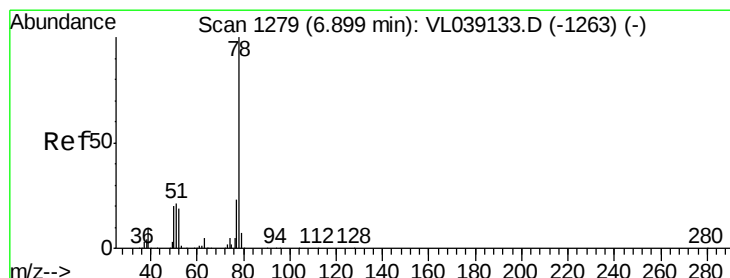
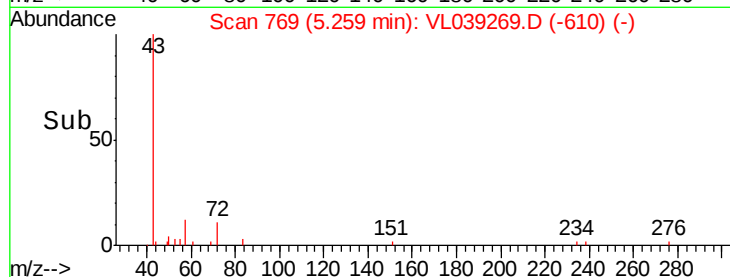
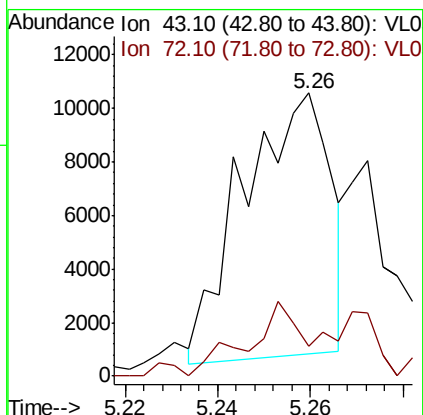
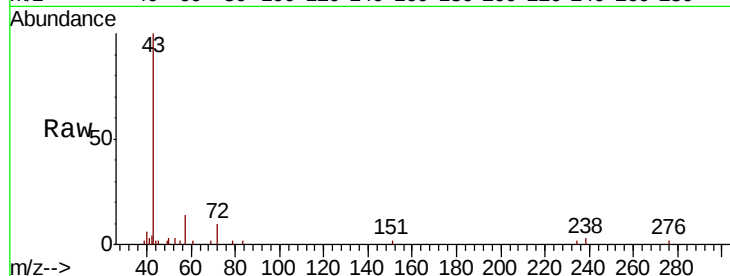
Tgt Ion:	114	Resp:	2434901
Ion	Ratio	Lower	Upper
114	100		
63	30.5	21.7	32.5
88	20.0	14.8	22.2





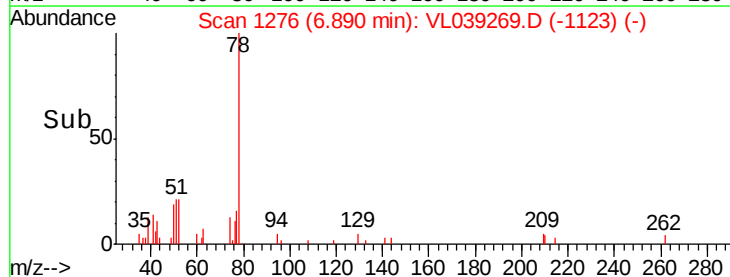
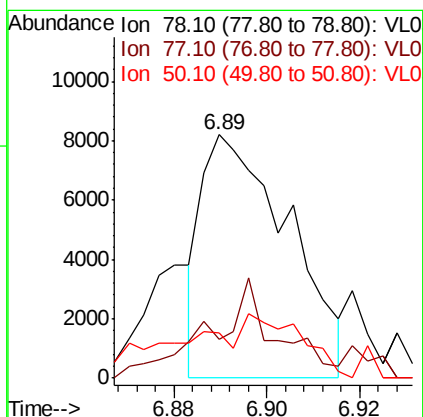
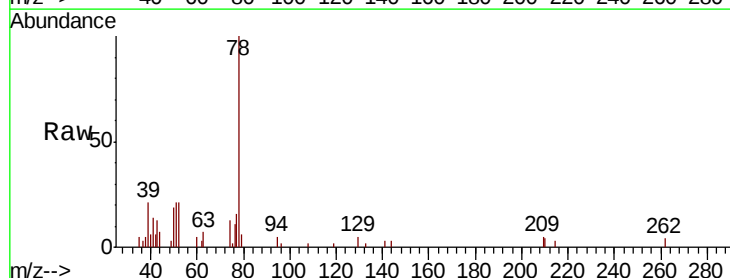
#34
2-Butanone
Concen: 0.097 ppbv
RT: 5.26
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 2:39

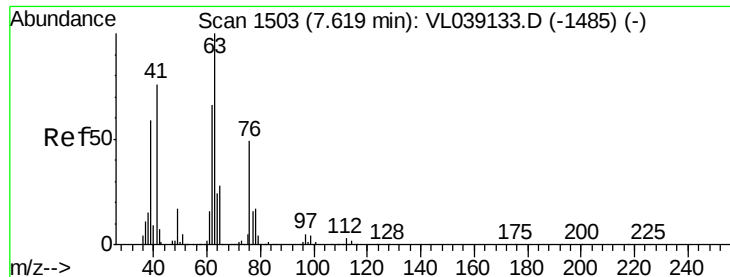
Tot Ion: 43 Resp: 12871
Ion Ratio Lower Upper
43 100
72 35.0 18.2 27.2#



#36
Benzene
Concen: 0.054 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.01 min
Lab File: VL039269.D
Acq: 14 Jun 2022 2:39

Tgt Ion: 78 Resp: 10674
Ion Ratio Lower Upper
78 100
77 14.7 18.6 27.8#
50 20.9 15.8 23.8





#39

1,2-Dichloropropane

Concen: 9.178 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 14 Jun 2022 2:39

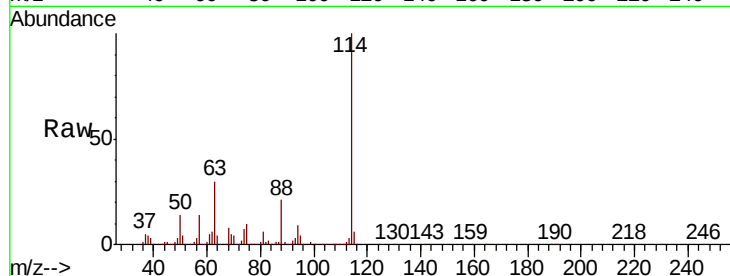
Tot Ion: 63 Resp: 721664

Ion Ratio Lower Upper

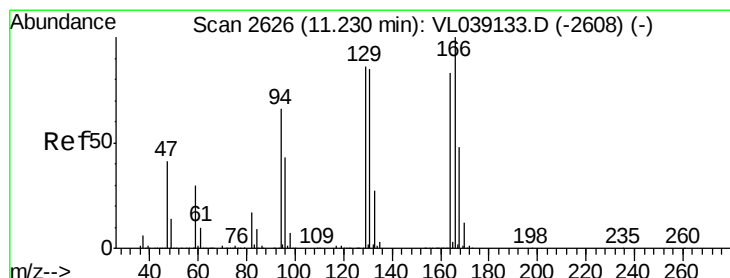
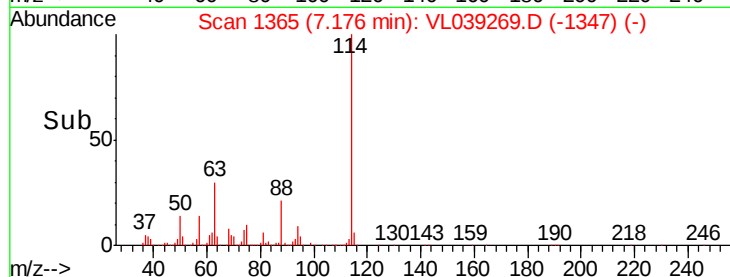
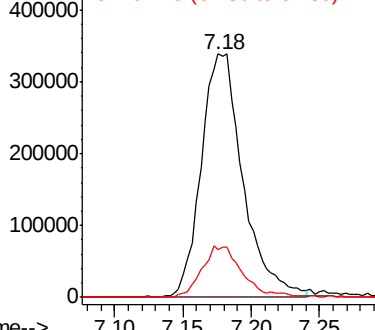
63 100

41 0.0 60.8 91.2#

62 19.6 52.9 79.3#



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



#52

Tetrachloroethene

Concen: 0.093 ppbv

RT: 11.22 min Scan# 2624

Delta R.T. -0.01 min

Lab File: VL039269.D

Acq: 14 Jun 2022 2:39

Tgt Ion: 164 Resp: 7193

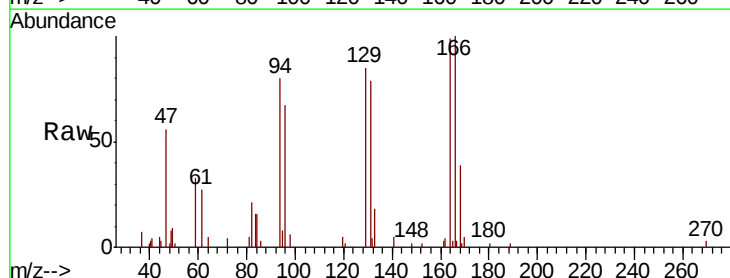
Ion Ratio Lower Upper

164 100

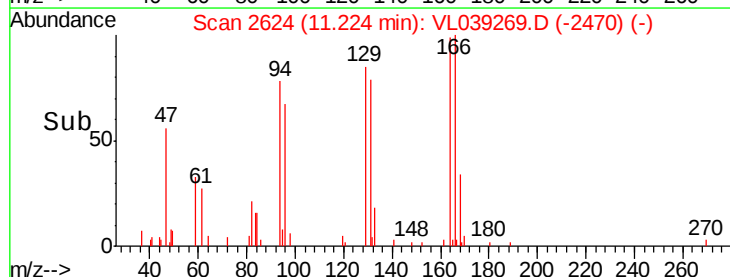
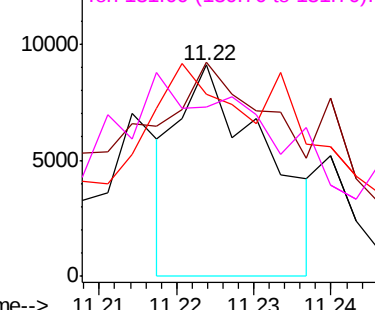
166 84.8 96.3 144.5#

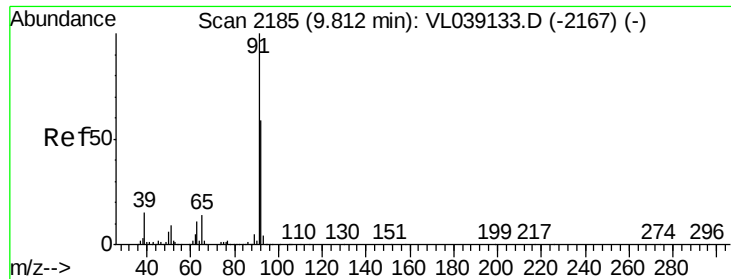
129 44.5 82.5 123.7#

131 17.3 82.1 123.1#



Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.074 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

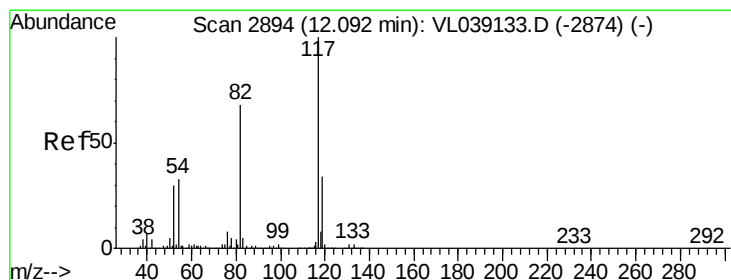
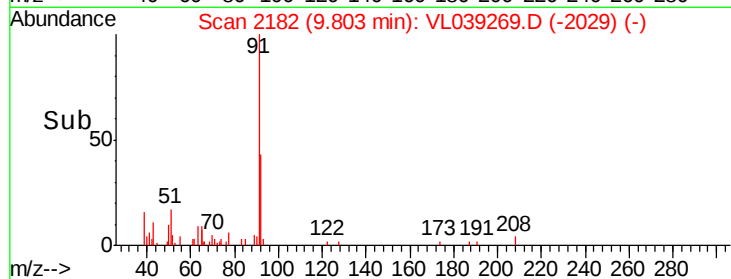
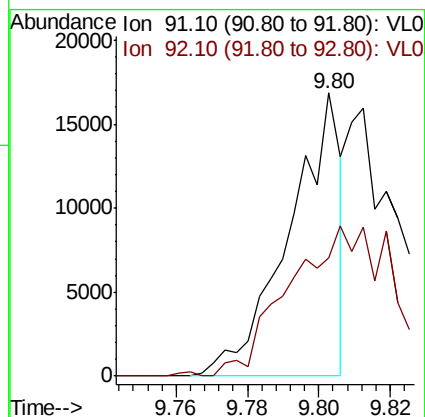
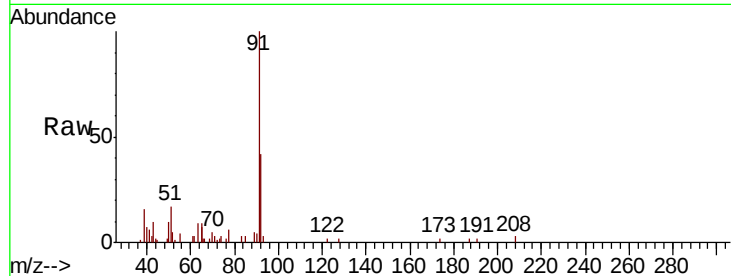
Acq: 14 Jun 2022 2:39

Tot Ion: 91 Resp: 16915

Ion Ratio Lower Upper

91 100

92 117.6 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: VL039269.D

Acq: 14 Jun 2022 2:39

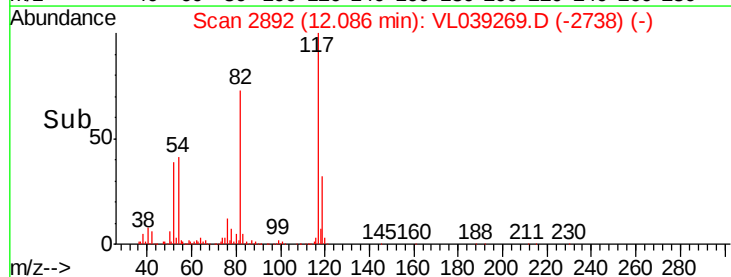
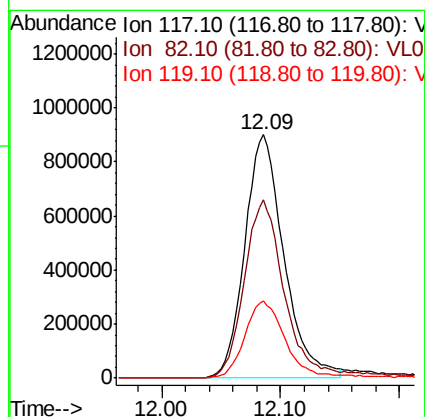
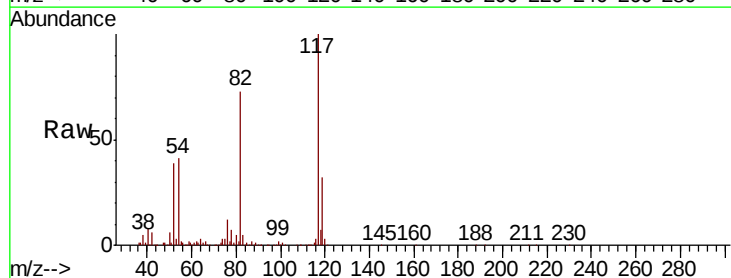
Tgt Ion: 117 Resp: 2055457

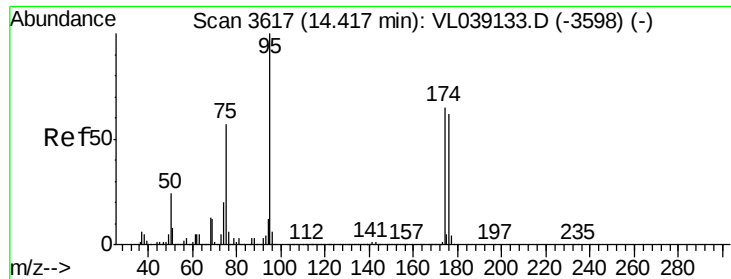
Ion Ratio Lower Upper

117 100

82 76.7 55.1 82.7

119 33.5 24.7 37.1





#68

1-Bromo-4-Fluorobenzene

Concen: 10.612 ppbv

RT: 14.41

Delta R.T

Lab File: ClientSampleId :

Acq: 14 Jun 2022 2:39

Tot Ion: 95 Resp: 1803367

Ion Ratio Lower Upper

95 100

174 60.1 53.8 80.8

175 4.5 4.1 6.1

