

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061322\
 Data File : VL039276.D
 Acq On : 14 Jun 2022 7:33
 Operator : SY/AP
 Sample : N3326-03DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Quant Time: Jun 14 08:09:03 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	1161556	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2658531	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2179717	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1834454	10.18	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

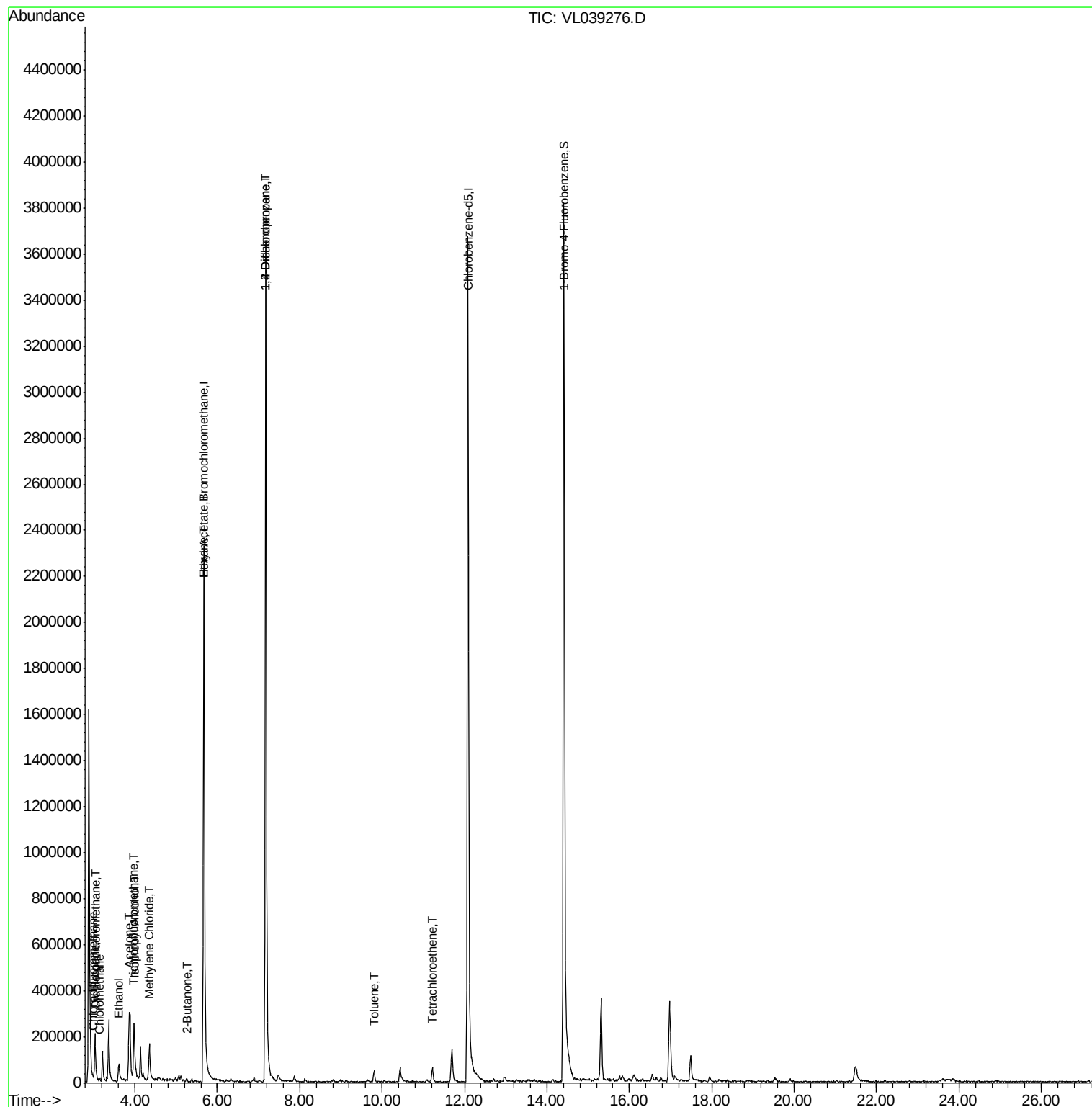
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	7401	0.036	ppbv	94
3) Chlorodifluoromethane	2.99	51	21829	0.148	ppbv #	84
4) Chloromethane	3.15	50	7499	0.099	ppbv	92
9) Propene	3.03	41	56479	0.876	ppbv #	71
11) Trichlorofluoromethane	3.96	101	5890	0.032	ppbv #	44
13) Ethanol	3.61	45	40120	11.416	ppbv #	100
15) Acetone	3.86	43	437563	3.616	ppbv	92
19) Isopropyl Alcohol	3.98	45	304083	5.358	ppbv #	94
20) Methylene Chloride	4.35	84	63487	1.245	ppbv	92
25) Ethyl Acetate	5.69	43	51589	0.189	ppbv #	91
26) Hexane	5.69	57	43392	0.362	ppbv #	58
34) 2-Butanone	5.25	43	5509	0.038	ppbv #	53
39) 1,2-Dichloropropane	7.18	63	792649	9.233	ppbv #	25
52) Tetrachloroethene	11.22	164	4574	0.054	ppbv #	61
53) Toluene	9.81	91	20620	0.083	ppbv #	69

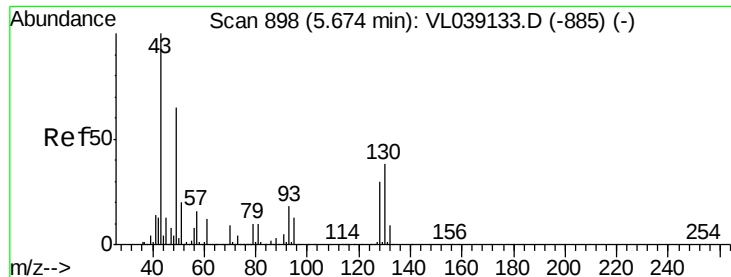
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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. ClientSampleId:

Lab File: IA1DL

Acq: 14 Jun 2022 7:33

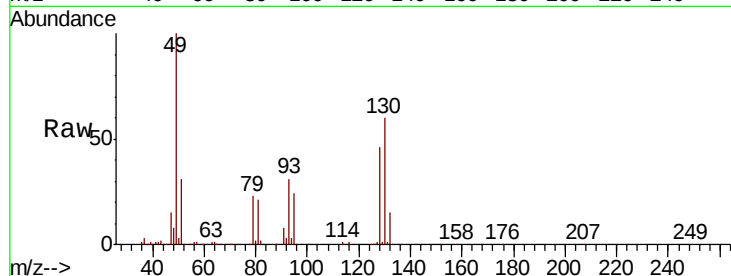
Tot Ion: 49 Resp: 1161556

Ion Ratio Lower Upper

49 100

128 48.6 24.7 74.1

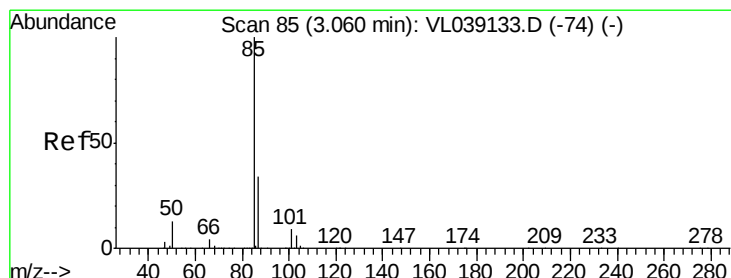
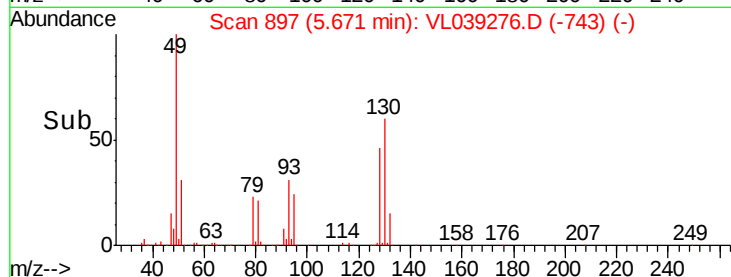
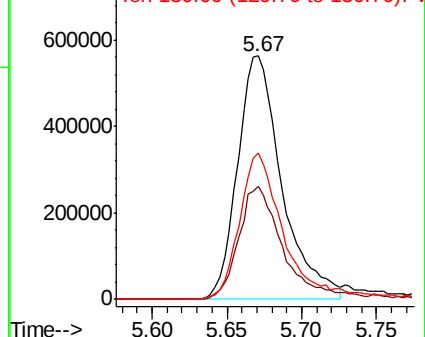
130 61.6 31.4 94.0



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: 0.036 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.01 min

Lab File: VL039276.D

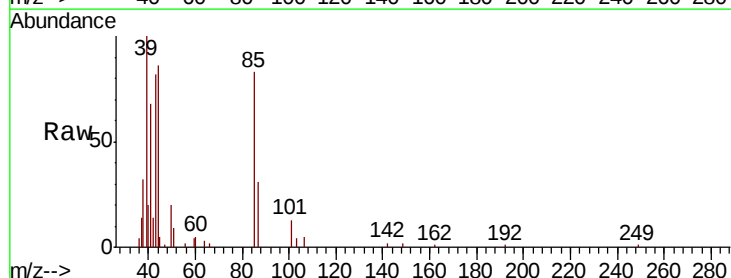
Acq: 14 Jun 2022 7:33

Tgt Ion: 85 Resp: 7401

Ion Ratio Lower Upper

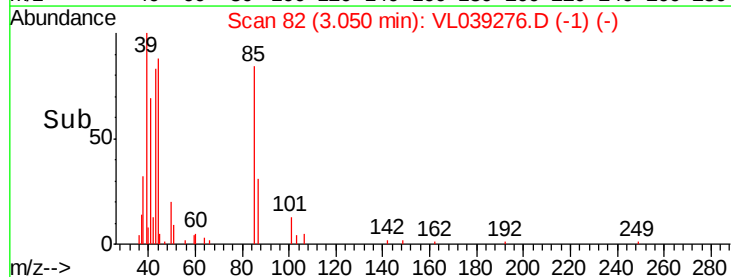
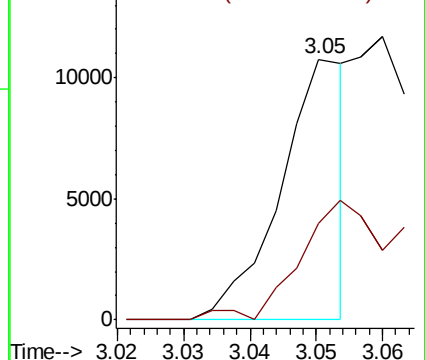
85 100

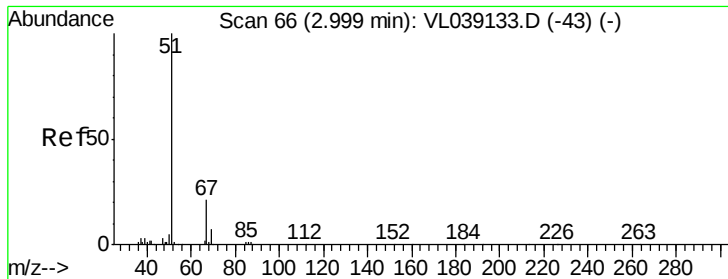
87 37.1 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.148 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

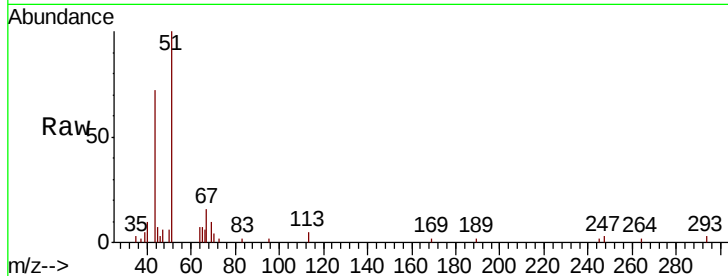
Acq: 14 Jun 2022 7:33

Tot Ion: 51 Resp: 21829

Ion Ratio Lower Upper

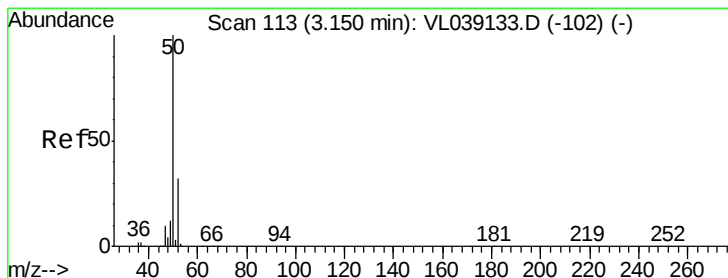
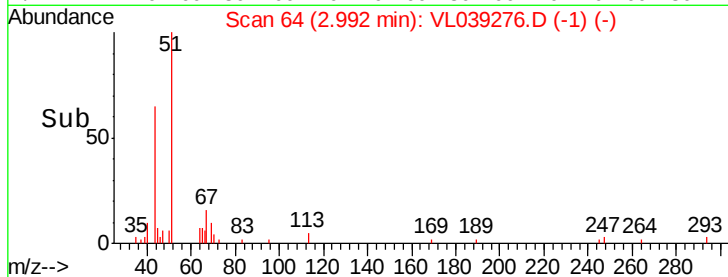
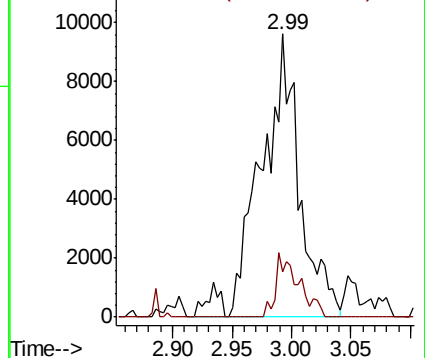
51 100

67 13.1 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: 0.099 ppbv

RT: 3.15 min Scan# 113

Delta R.T. -0.00 min

Lab File: VL039276.D

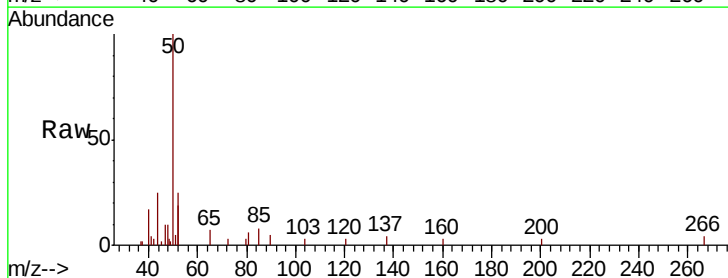
Acq: 14 Jun 2022 7:33

Tgt Ion: 50 Resp: 7499

Ion Ratio Lower Upper

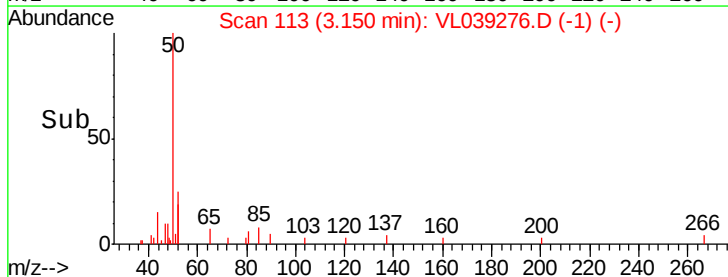
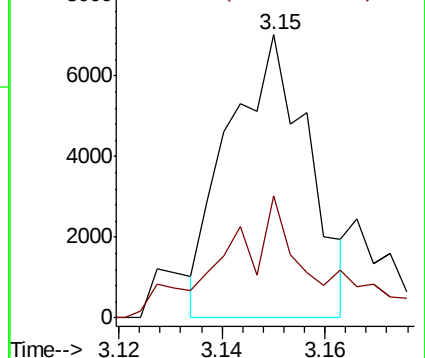
50 100

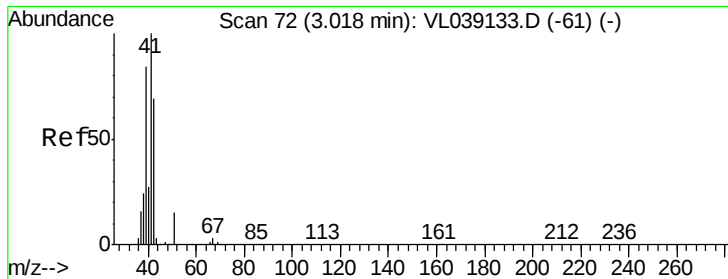
52 37.2 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

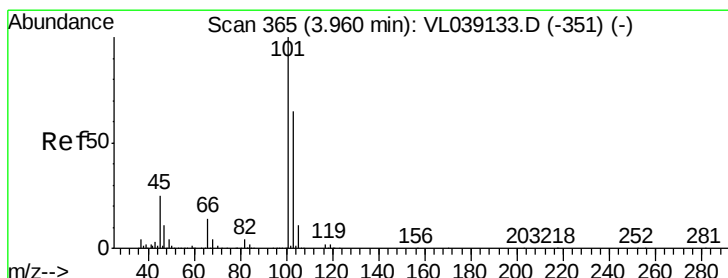
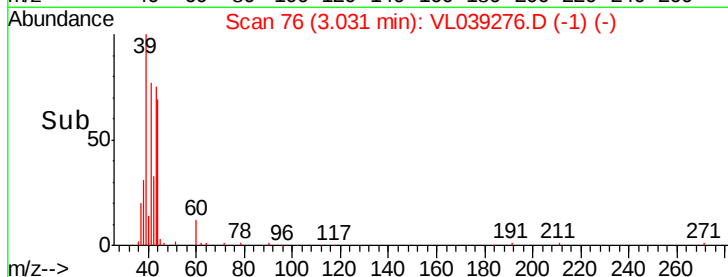
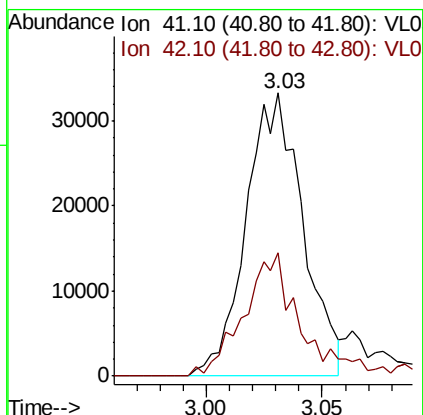
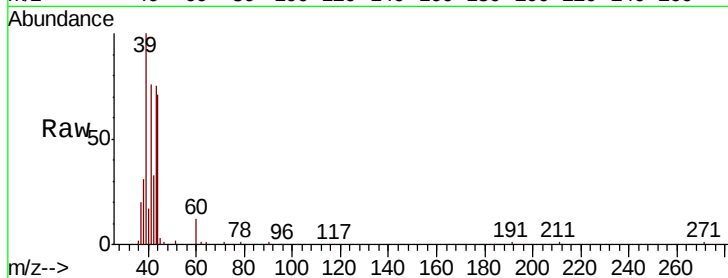
Ion 52.10 (51.80 to 52.80): VL0





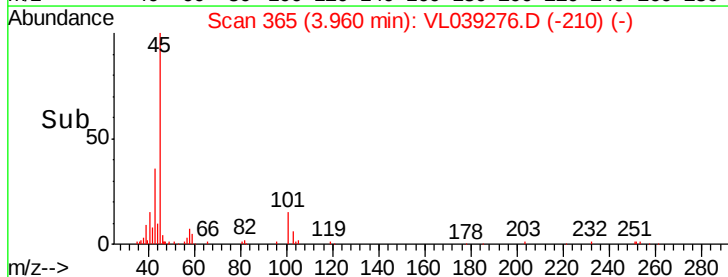
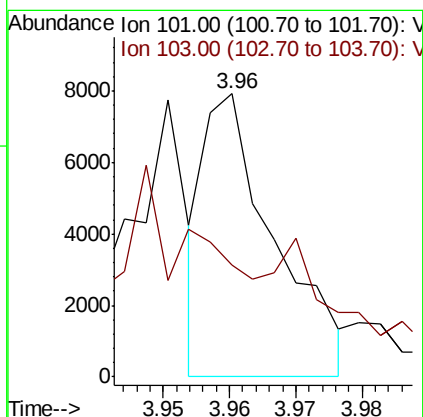
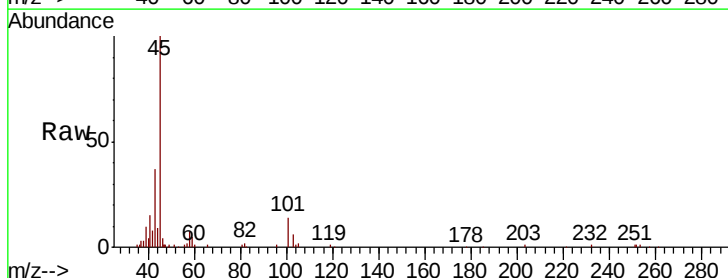
#9
 Propene
 Concen: 0.876 ppbv
 RT: 3.03
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Jun 2022 7:33

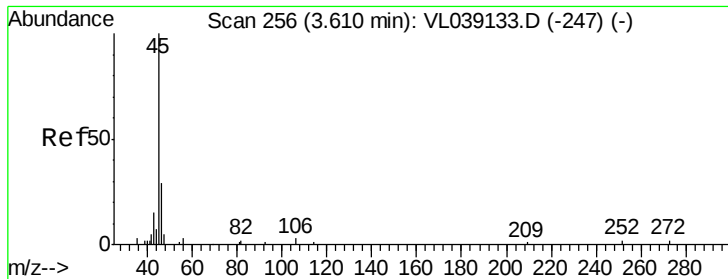
Tot Ion: 41 Resp: 56479
 Ion Ratio Lower Upper
 41 100
 42 45.8 55.4 83.2#



#11
 Trichlorofluoromethane
 Concen: 0.032 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. -0.00 min
 Lab File: VL039276.D
 Acq: 14 Jun 2022 7:33

Tgt Ion: 101 Resp: 5890
 Ion Ratio Lower Upper
 101 100
 103 20.3 51.7 77.5#





#13

Ethanol

Concen: 11.416 ppbv

RT: 3.61 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

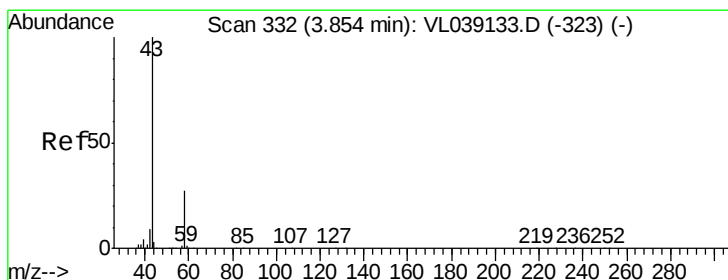
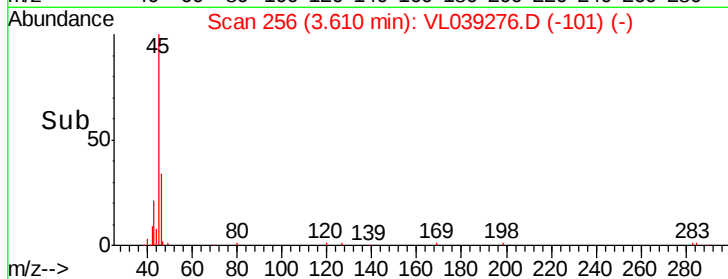
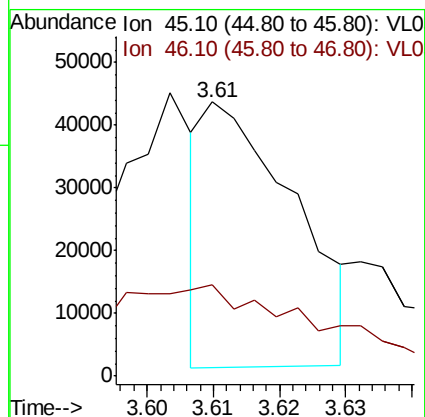
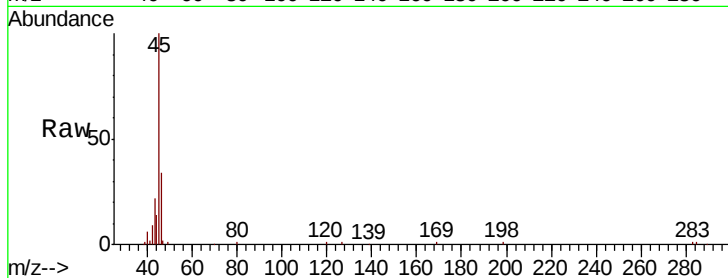
Acq: 14 Jun 2022 7:33

Tot Ion: 45 Resp: 40120

Ion Ratio Lower Upper

45 100

46 106.7 0.0 0.0#



#15

Acetone

Concen: 3.616 ppbv

RT: 3.86 min Scan# 333

Delta R.T. 0.00 min

Lab File: VL039276.D

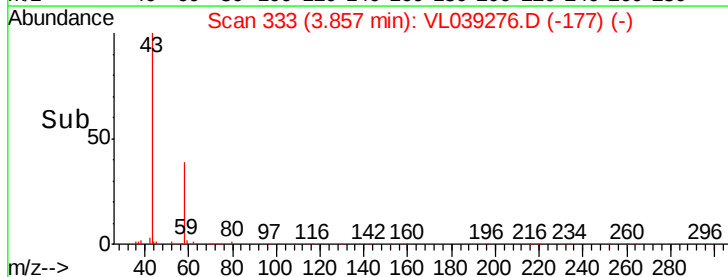
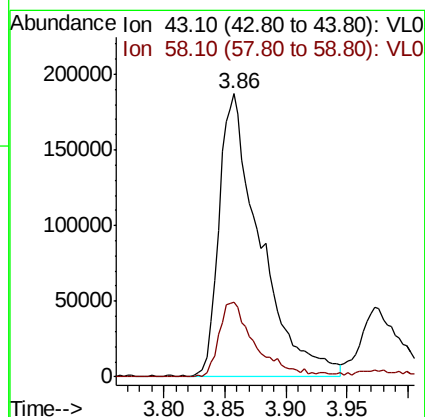
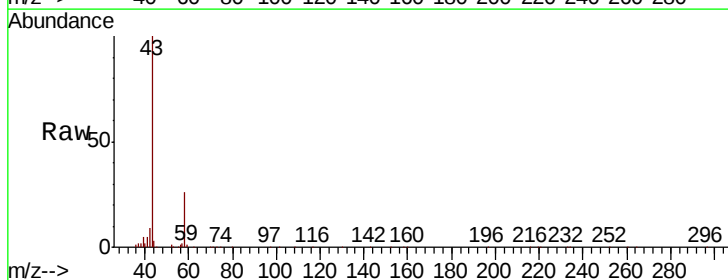
Acq: 14 Jun 2022 7:33

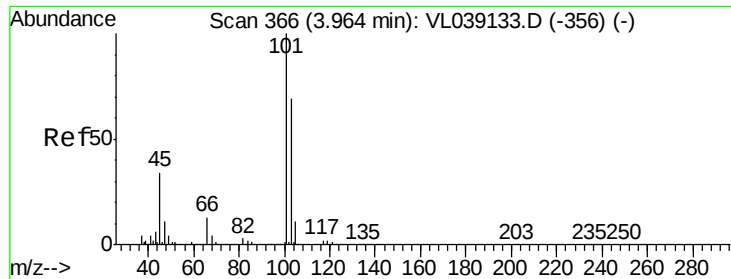
Tgt Ion: 43 Resp: 437563

Ion Ratio Lower Upper

43 100

58 24.0 22.5 33.7





#19

Isopropyl Alcohol

Concen: 5.358 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

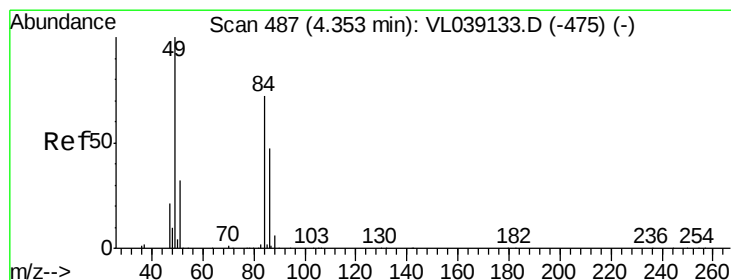
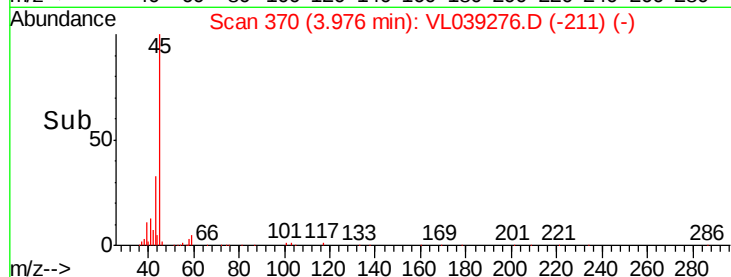
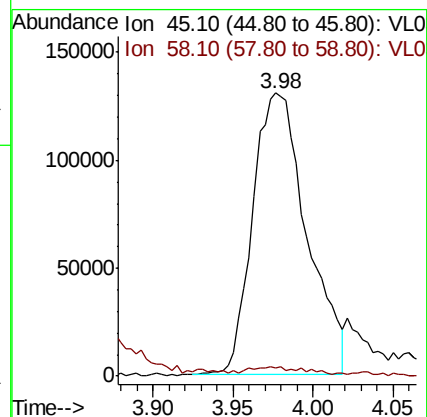
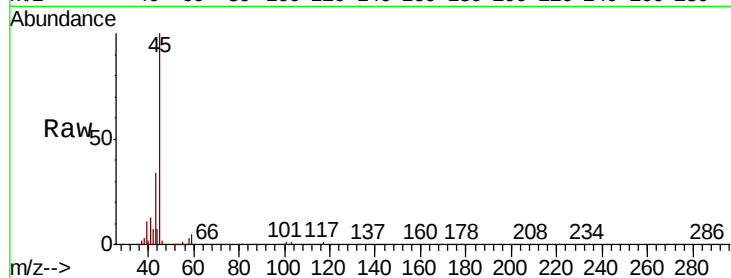
Acq: 14 Jun 2022 7:33

Tot Ion: 45 Resp: 304083

Ion Ratio Lower Upper

45 100

58 4.5 1.8 2.8#



#20

Methylene Chloride

Concen: 1.245 ppbv

RT: 4.35 min Scan# 487

Delta R.T. -0.00 min

Lab File: VL039276.D

Acq: 14 Jun 2022 7:33

Tgt Ion: 84 Resp: 63487

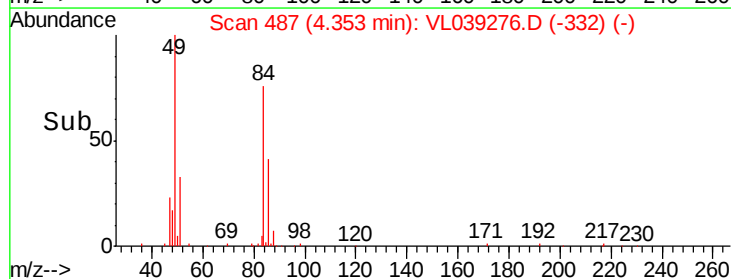
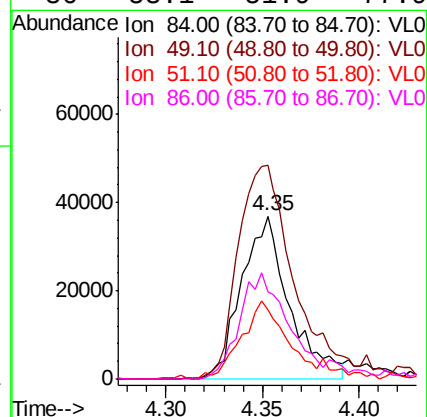
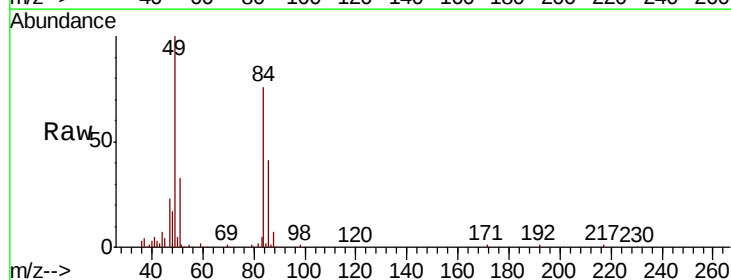
Ion Ratio Lower Upper

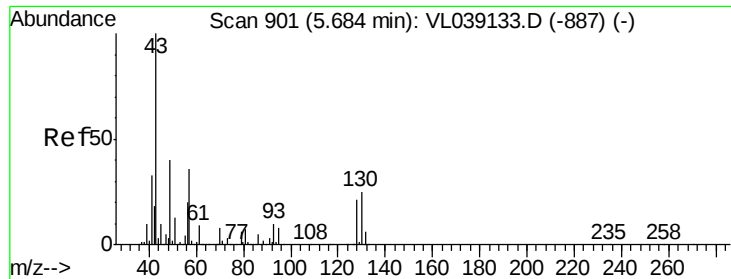
84 100

49 131.1 111.1 166.7

51 43.1 35.3 52.9

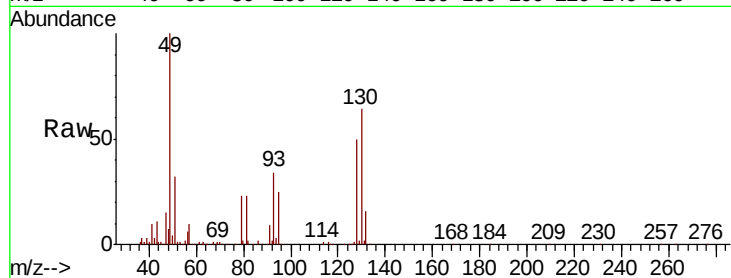
86 53.1 51.9 77.9





#25
Ethyl Acetate
Concen: 0.189 ppbv
RT: 5.69 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 14 Jun 2022 7:33

Tot Ion:	43	Resp:	51589
Ion	Ratio	Lower	Upper
43	100		
45	15.1	8.2	12.2#
61	7.7	8.4	12.6#
70	5.5	5.6	8.4#



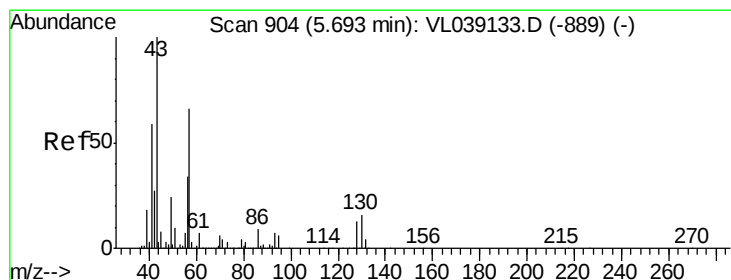
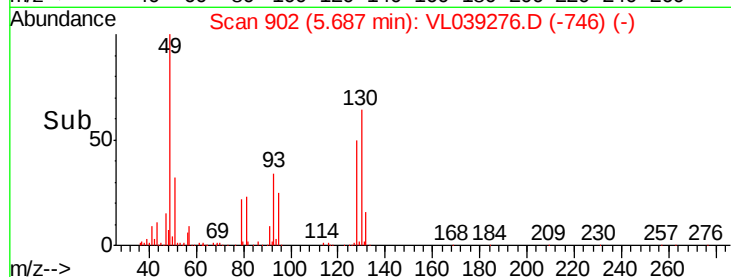
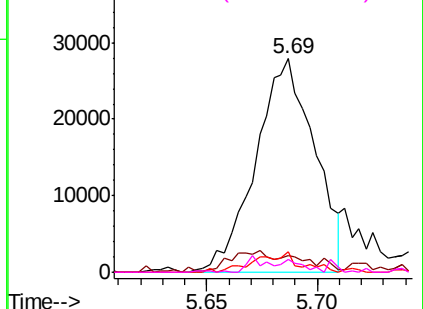
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

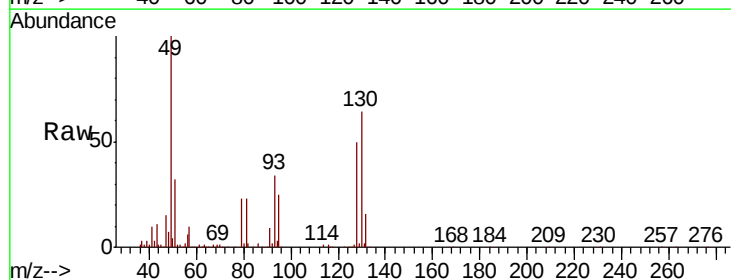
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 0.362 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL039276.D
Acq: 14 Jun 2022 7:33

Tgt Ion:	57	Resp:	43392
Ion	Ratio	Lower	Upper
57	100		
41	111.7	72.4	108.6#
43	140.9	187.0	280.6#
56	62.9	41.8	62.6#



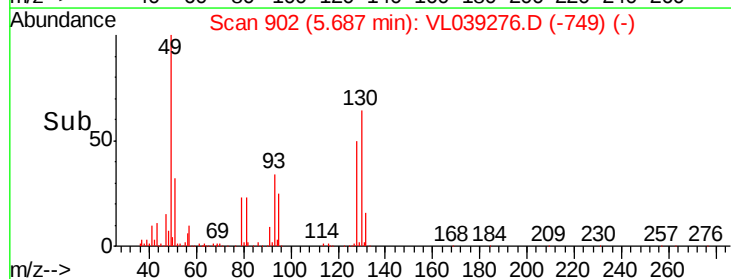
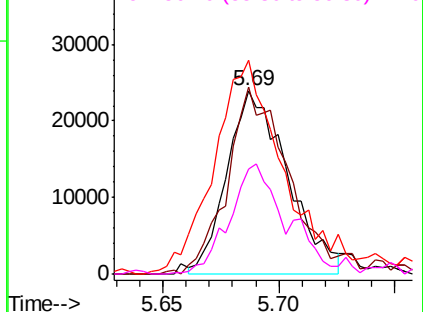
Abundance

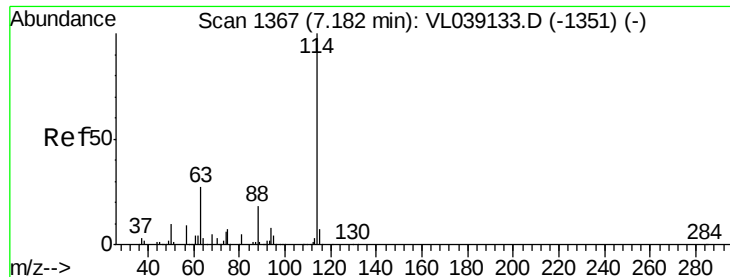
Ion 57.10 (56.80 to 57.80): VL0

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

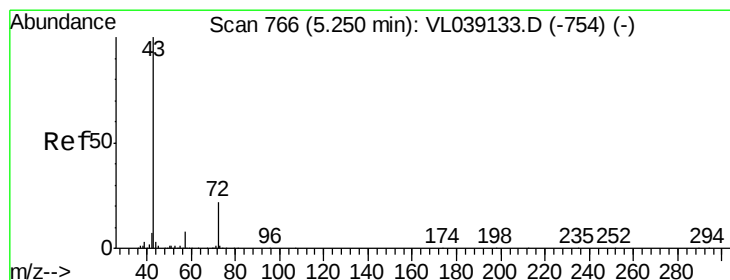
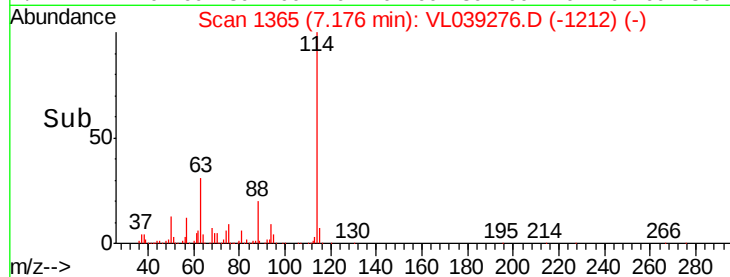
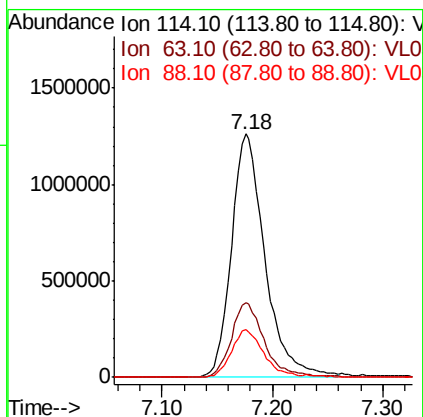
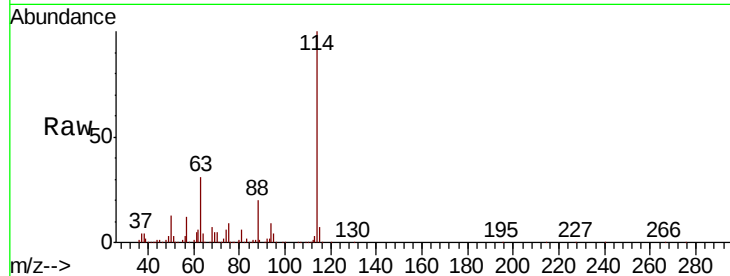




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 14 Jun 2022 7:33

Tot Ion:114 Resp: 2658531

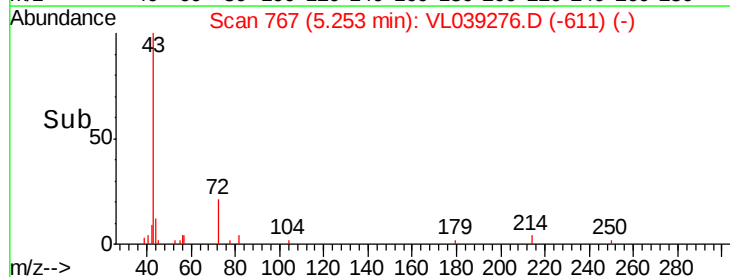
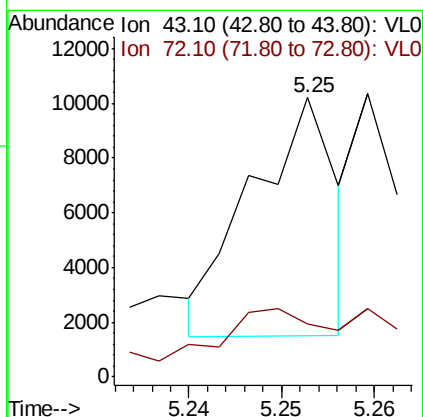
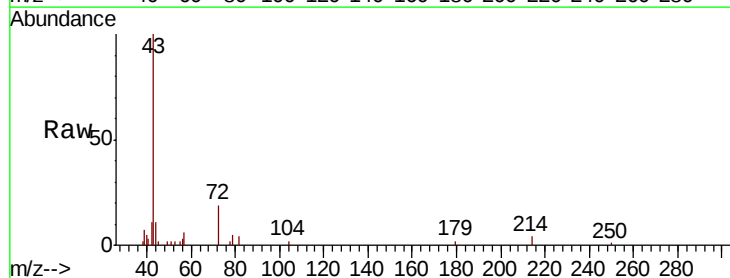
Ion	Ratio	Lower	Upper
114	100		
63	30.3	21.7	32.5
88	19.7	14.8	22.2

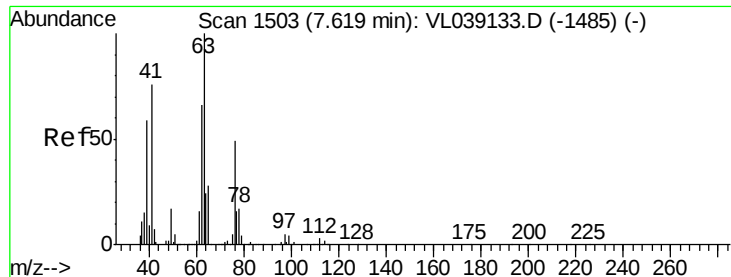


#34
 2-Butanone
 Concen: 0.038 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.00 min
 Lab File: VL039276.D
 Acq: 14 Jun 2022 7:33

Tgt Ion: 43 Resp: 5509

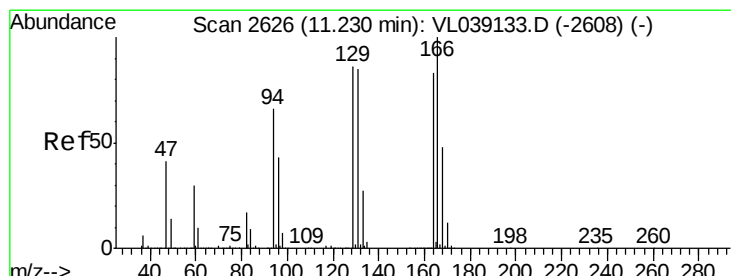
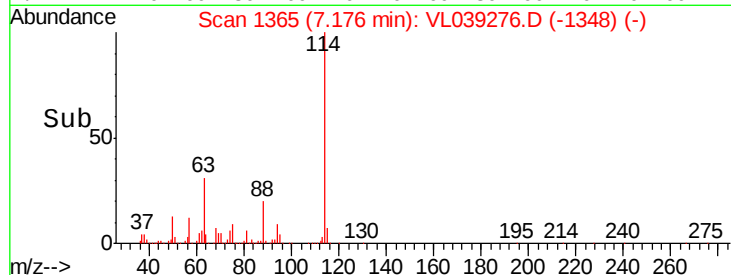
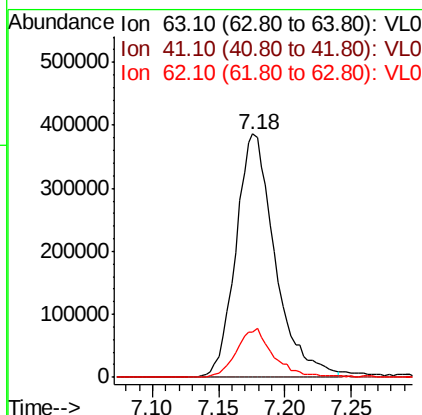
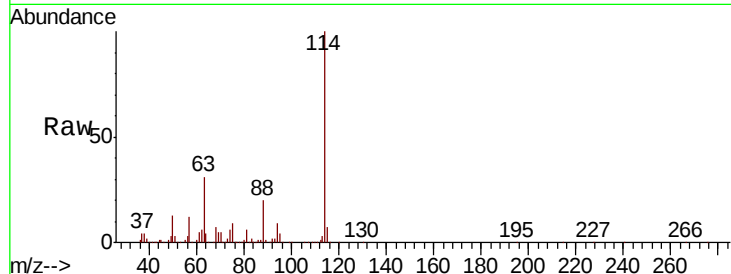
Ion	Ratio	Lower	Upper
43	100		
72	0.0	18.2	27.2#





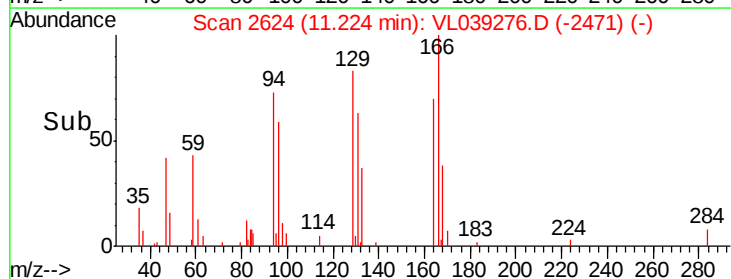
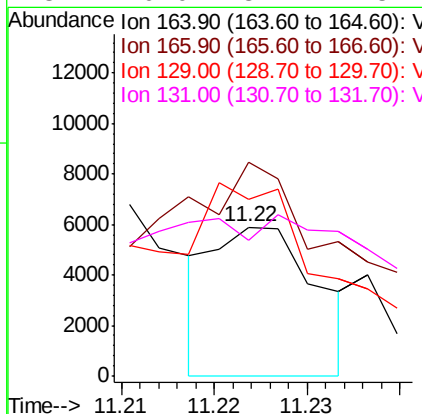
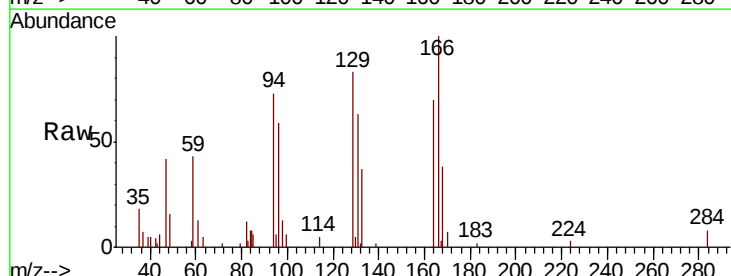
#39
 1,2-Dichloropropane
 Concen: 9.233 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampled :
 Acq: 14 Jun 2022 7:33

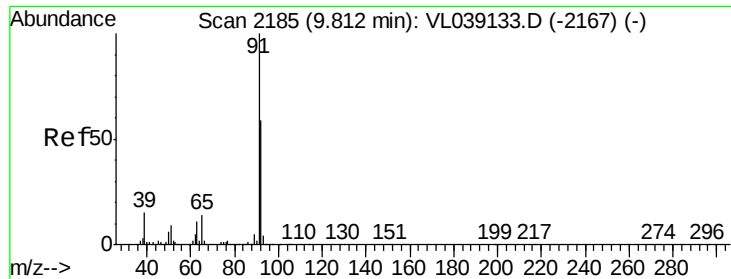
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.8	91.2#
62	18.4	52.9	79.3#



#52
 Tetrachloroethene
 Concen: 0.054 ppbv
 RT: 11.22 min Scan# 2624
 Delta R.T. -0.01 min
 Lab File: VL039276.D
 Acq: 14 Jun 2022 7:33

Tgt Ion	Ratio	Lower	Upper
164	100		
166	122.5	96.3	144.5
129	123.9	82.5	123.7#
131	0.0	82.1	123.1#





#53

Toluene

Concen: 0.083 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

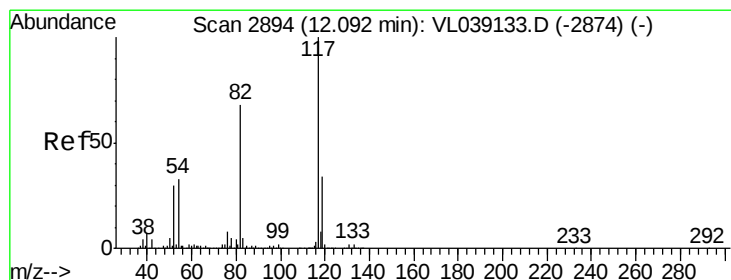
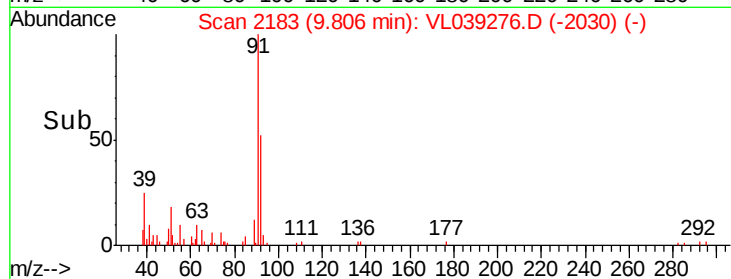
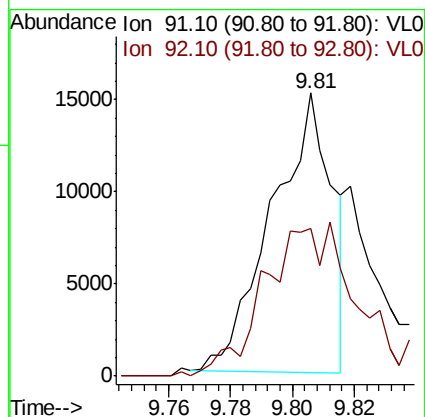
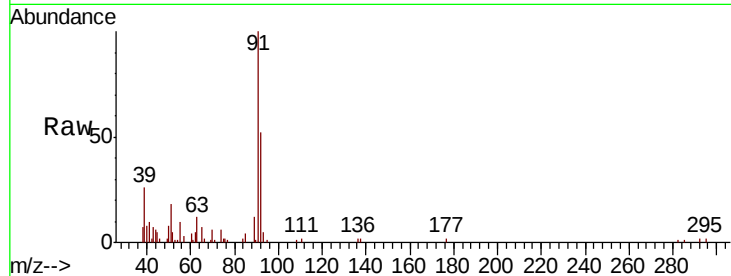
Acq: 14 Jun 2022 7:33

Tot Ion: 91 Resp: 20620

Ion Ratio Lower Upper

91 100

92 83.4 48.1 72.1#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL039276.D

Acq: 14 Jun 2022 7:33

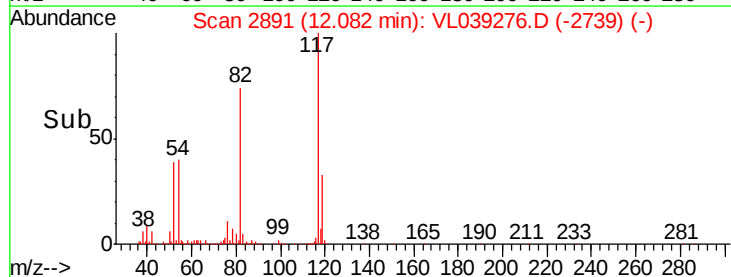
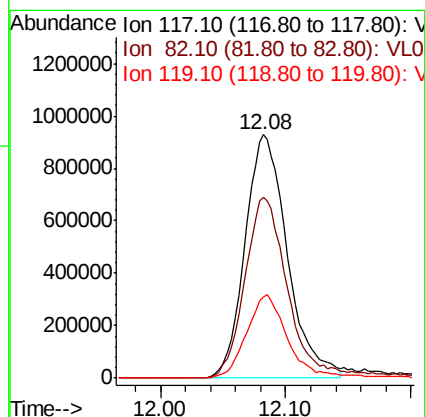
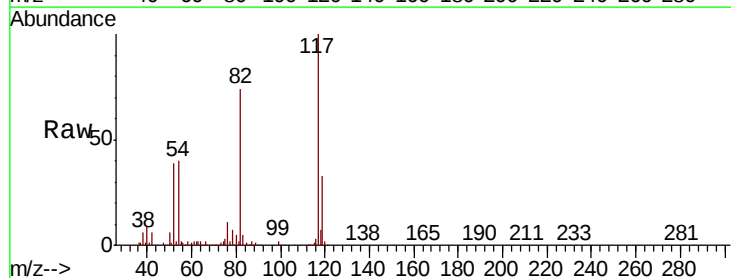
Tgt Ion: 117 Resp: 2179717

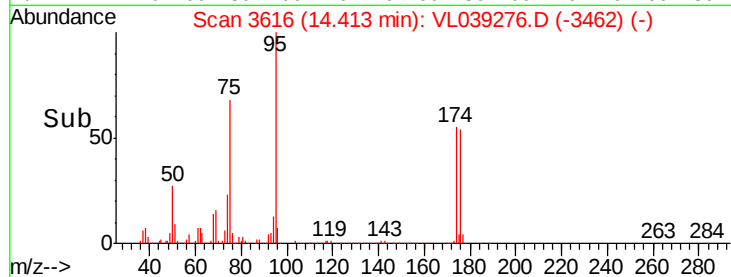
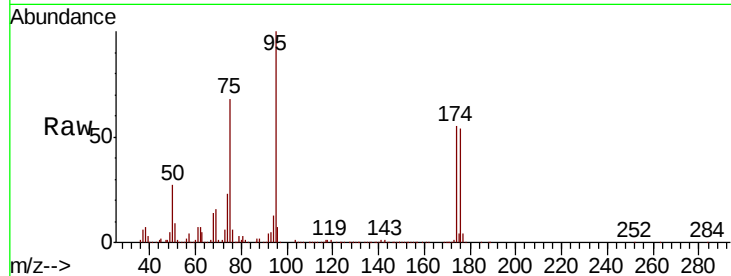
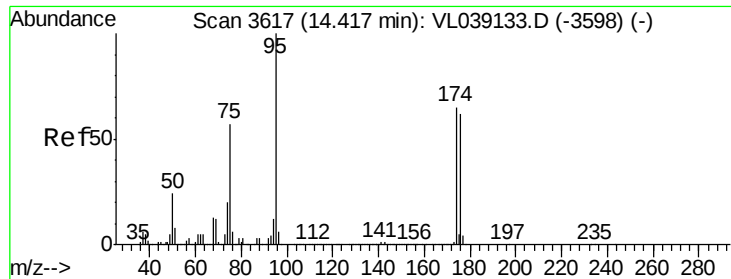
Ion Ratio Lower Upper

117 100

82 78.6 55.1 82.7

119 34.1 24.7 37.1





#68

1-Bromo-4-Fluorobenzene

Concen: 10.180 ppbv

RT: 14.41

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 14 Jun 2022 7:33

Tot Ion: 95 Resp: 1834454

Ion Ratio Lower Upper

95 100

174 62.5 53.8 80.8

175 4.5 4.1 6.1

