

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062722\
 Data File : VL039384.D
 Acq On : 28 Jun 2022 8:35
 Operator : SY/AP
 Sample : N3508-03DL 20X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-9-20220624DL

Quant Time: Jun 28 09:22:20 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	5.65	49	1031648	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.16	114	2915998	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.06	117	2590580	10.00	ppbv	-0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.39	95	1866377	8.71	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	87.10%	

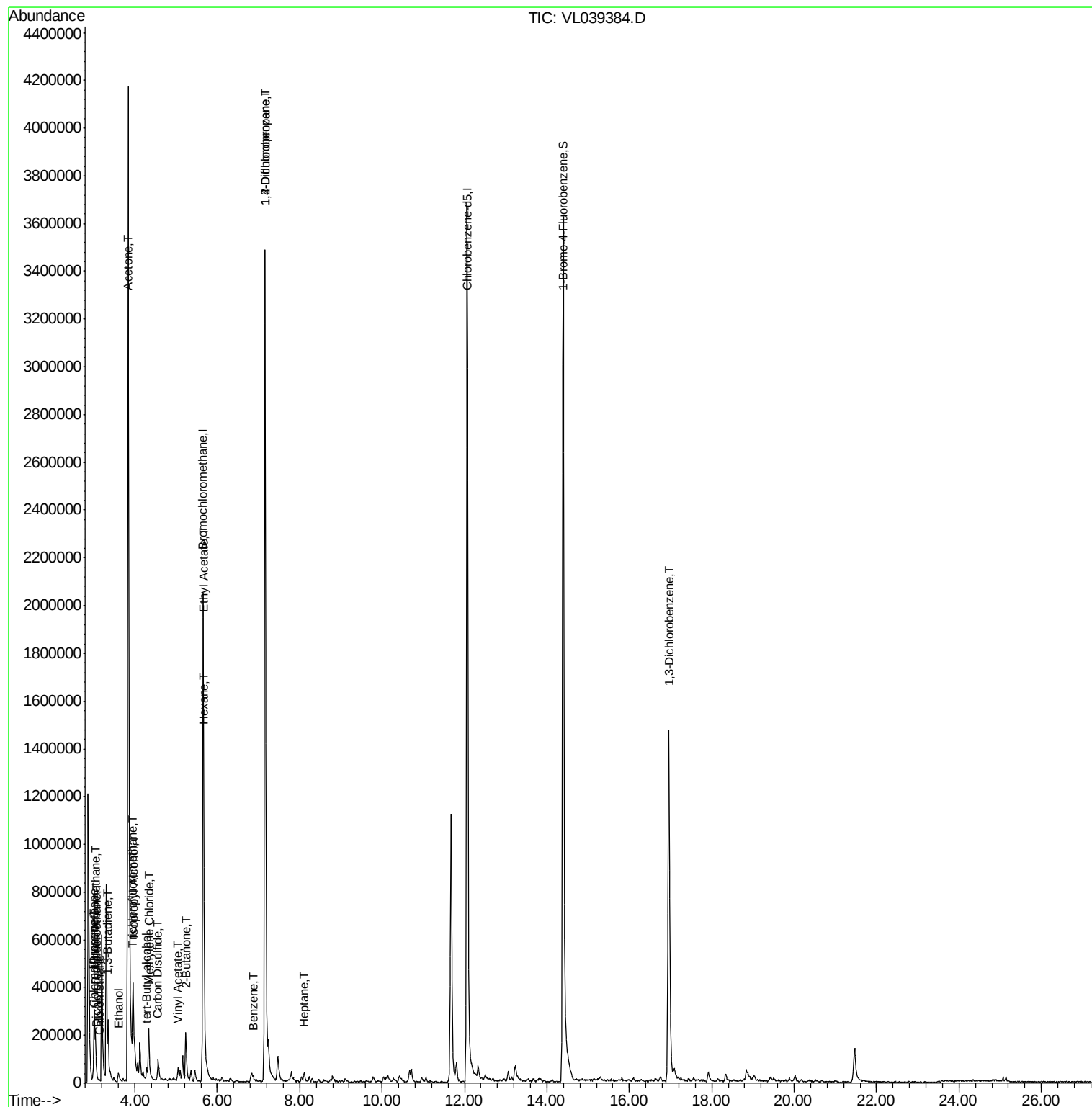
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	134930	0.745	ppbv	92
3) Chlorodifluoromethane	2.99	51	28512	0.217	ppbv	96
4) Chloromethane	3.14	50	3177	0.047	ppbv #	84
8) Dichlorotetrafluoroethane	3.08	85	5966	0.036	ppbv #	16
9) Propene	3.01	41	134088	2.343	ppbv	89
10) Heptane	8.11	43	10152	0.076	ppbv #	35
11) Trichlorofluoromethane	3.94	101	81948	0.500	ppbv	94
13) Ethanol	3.60	45	37867	12.131	ppbv #	100
15) Acetone	3.83	43	5557170	51.711	ppbv	98
16) 1,3-Butadiene	3.34	39	16738	0.290	ppbv #	8
17) tert-Butyl alcohol	4.29	59	32701	0.392	ppbv #	78
19) Isopropyl Alcohol	3.95	45	345173	6.848	ppbv #	93
20) Methylene Chloride	4.33	84	77203	1.705	ppbv #	94
23) Vinyl Acetate	5.06	43	11993	0.135	ppbv #	84
25) Ethyl Acetate	5.67	43	44688	0.185	ppbv #	79
26) Hexane	5.68	57	35900	0.337	ppbv #	1
27) Carbon Disulfide	4.55	76	6817	0.062	ppbv #	1
34) 2-Butanone	5.23	43	271241	1.712	ppbv	95
36) Benzene	6.87	78	14688	0.062	ppbv #	81
39) 1,2-Dichloropropane	7.16	63	712450	7.566	ppbv #	24
75) 1,3-Dichlorobenzene	16.97	146	7245	0.037	ppbv #	1

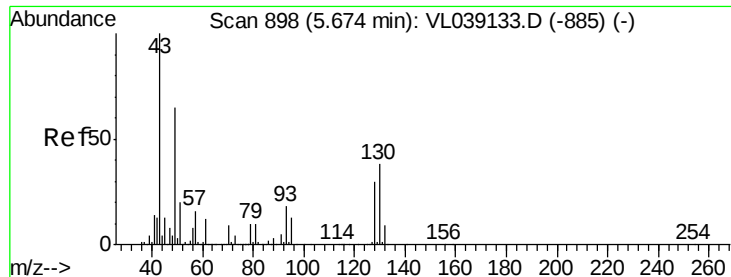
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 28 Jun 2022 8:35

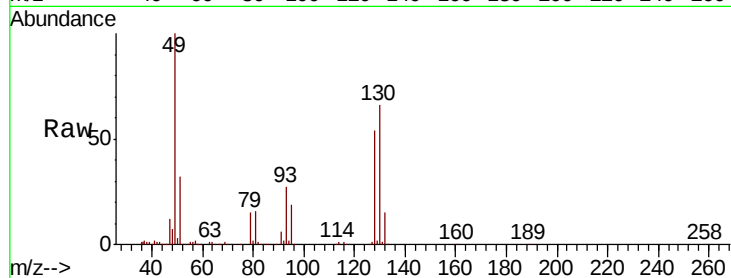
Tot Ion: 49 Resp: 1031648

Ion Ratio Lower Upper

49 100

128 54.5 24.7 74.1

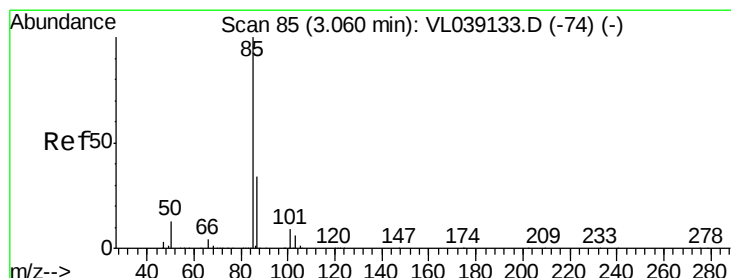
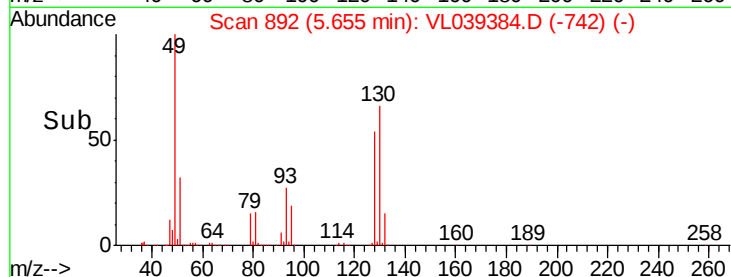
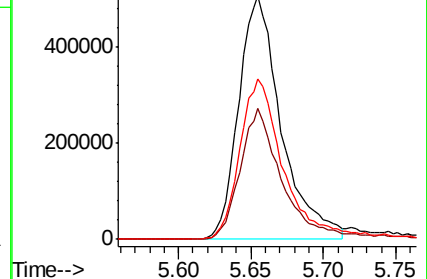
130 70.4 31.4 94.0



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: 0.745 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.02 min

Lab File: VL039384.D

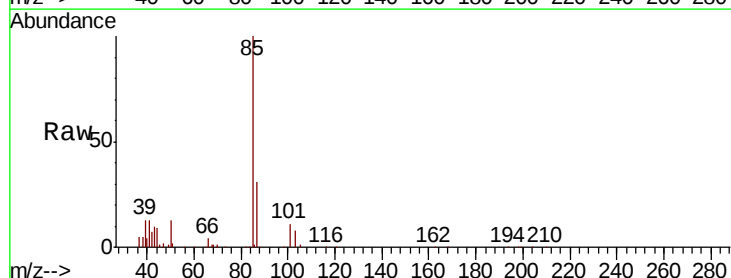
Acq: 28 Jun 2022 8:35

Tgt Ion: 85 Resp: 134930

Ion Ratio Lower Upper

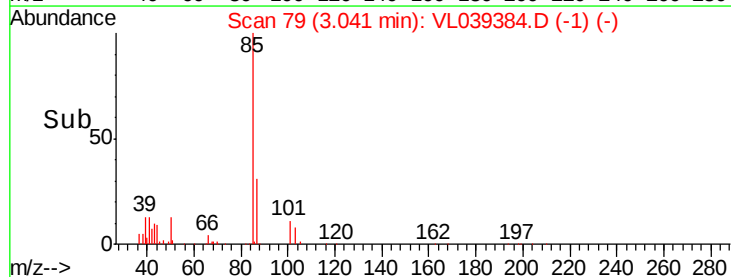
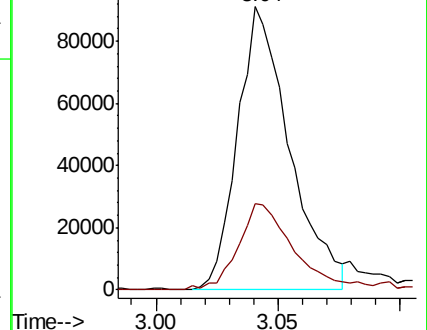
85 100

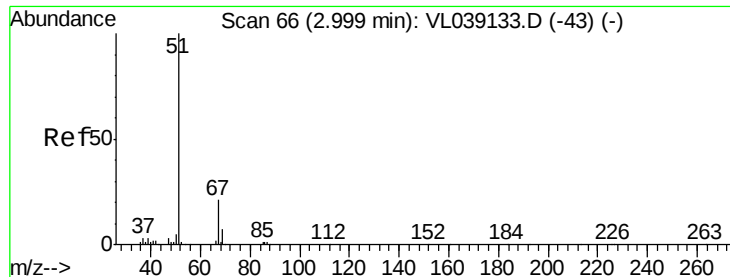
87 29.2 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.217 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV-9-20220624DL

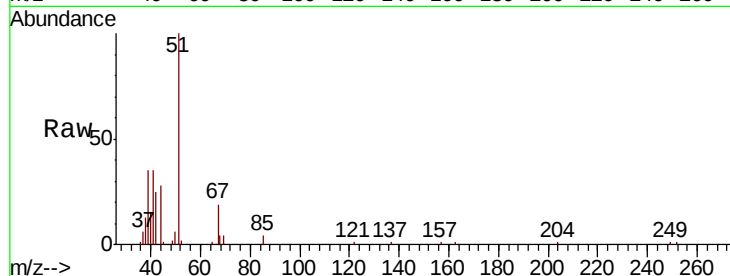
Acq: 28 Jun 2022 8:35

Tot Ion: 51 Resp: 28512

Ion Ratio Lower Upper

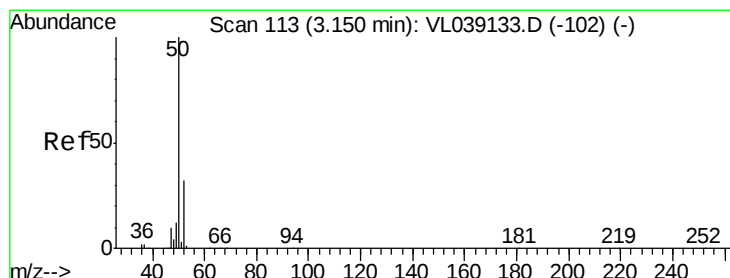
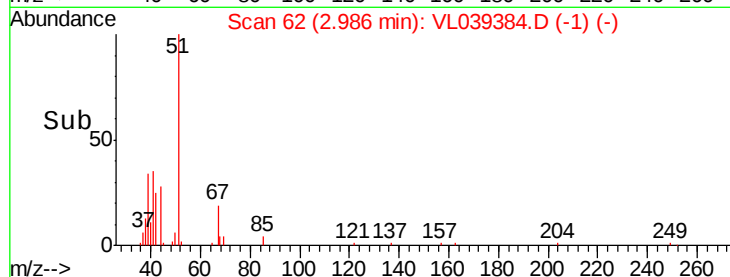
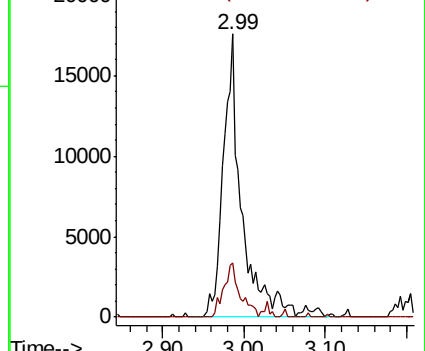
51 100

67 18.4 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: 0.047 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.01 min

Lab File: VL039384.D

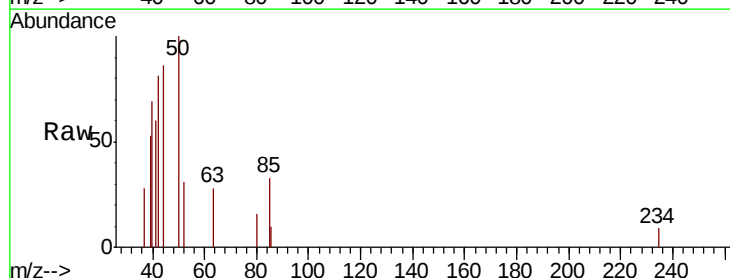
Acq: 28 Jun 2022 8:35

Tgt Ion: 50 Resp: 3177

Ion Ratio Lower Upper

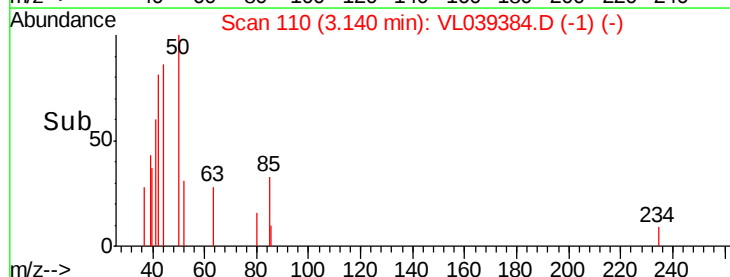
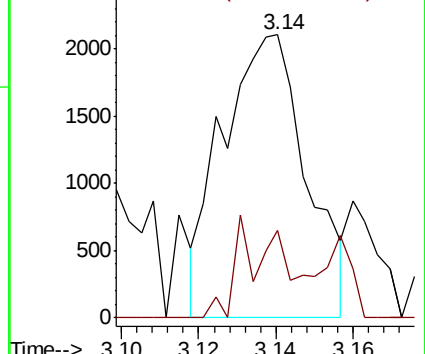
50 100

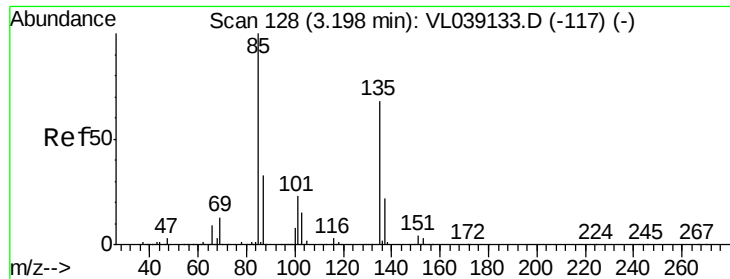
52 41.2 25.9 38.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#8

Dichlorotetrafluoroethane

Concen: 0.036 ppbv

RT: 3.08 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

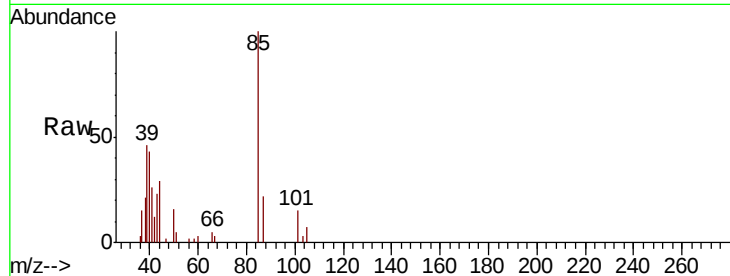
Acq: 28 Jun 2022 8:35 SV-9-20220624DL

Tot Ion: 85 Resp: 5966

Ion Ratio Lower Upper

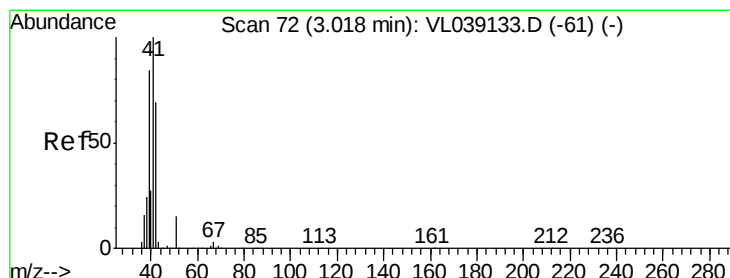
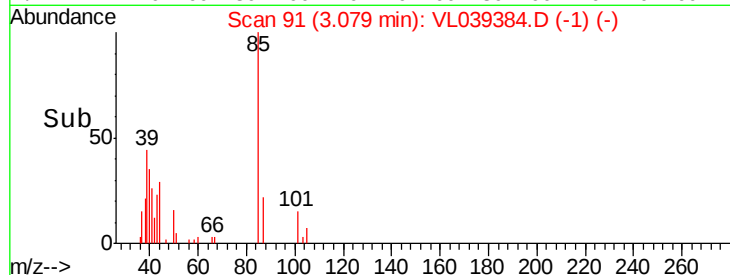
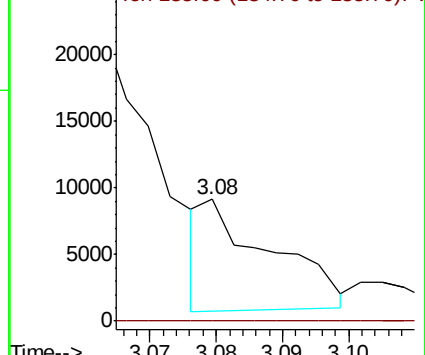
85 100

135 0.6 55.0 82.4#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V



#9

Propene

Concen: 2.343 ppbv

RT: 3.01 min Scan# 70

Delta R.T. -0.01 min

Lab File: VL039384.D

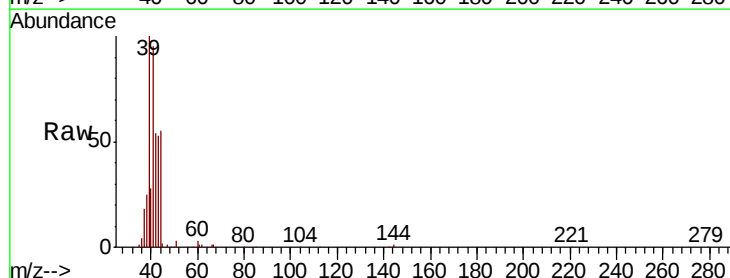
Acq: 28 Jun 2022 8:35

Tgt Ion: 41 Resp: 134088

Ion Ratio Lower Upper

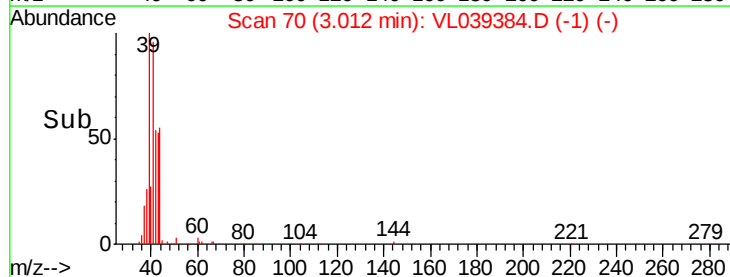
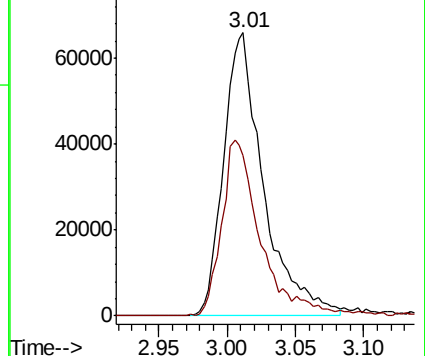
41 100

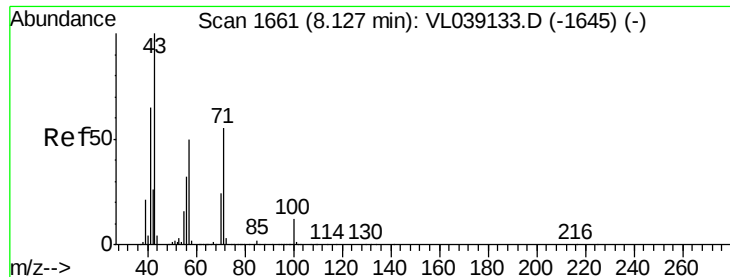
42 60.7 55.4 83.2



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.076 ppbv

RT: 8.11 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

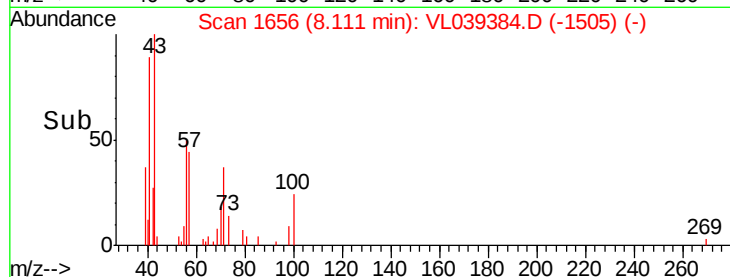
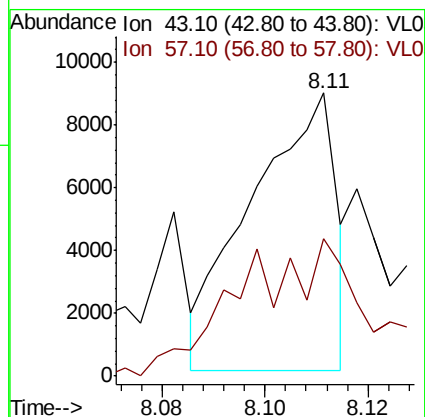
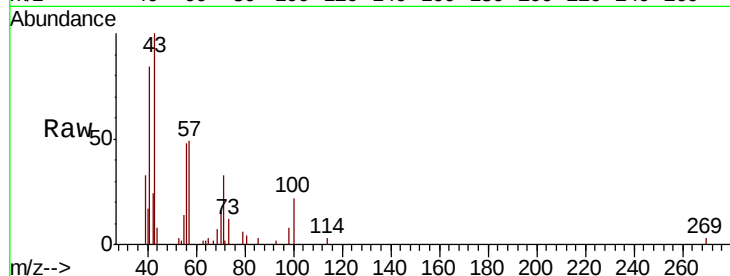
Acq: 28 Jun 2022 8:35 SV-9-20220624DL

Tot Ion: 43 Resp: 10152

Ion Ratio Lower Upper

43 100

57 97.1 41.4 62.2#



#11

Trichlorofluoromethane

Concen: 0.500 ppbv

RT: 3.94 min Scan# 358

Delta R.T. -0.02 min

Lab File: VL039384.D

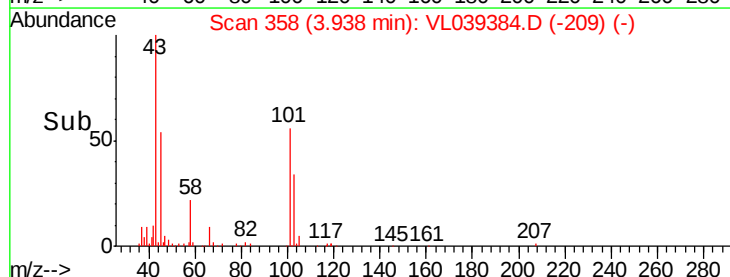
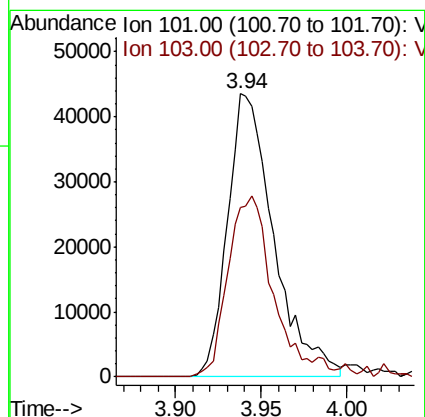
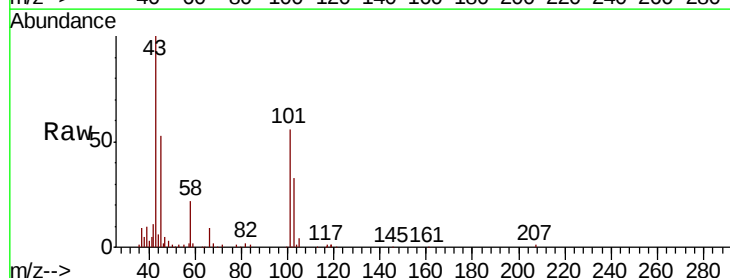
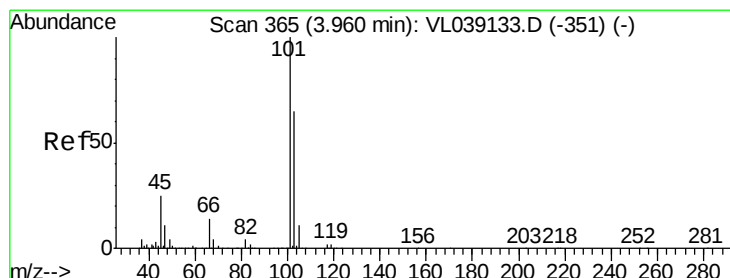
Acq: 28 Jun 2022 8:35

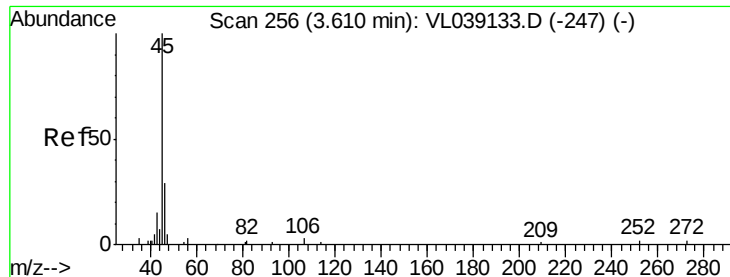
Tgt Ion:101 Resp: 81948

Ion Ratio Lower Upper

101 100

103 59.8 51.7 77.5





#13

Ethanol

Concen: 12.131 ppbv

RT: 3.60 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

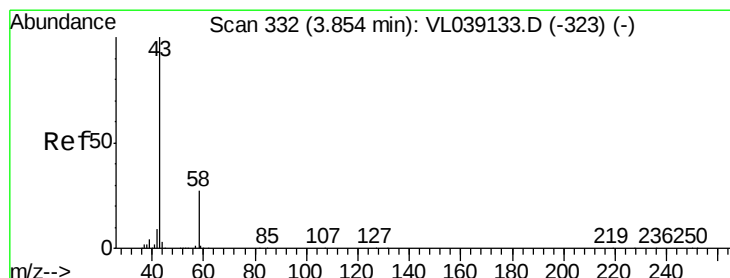
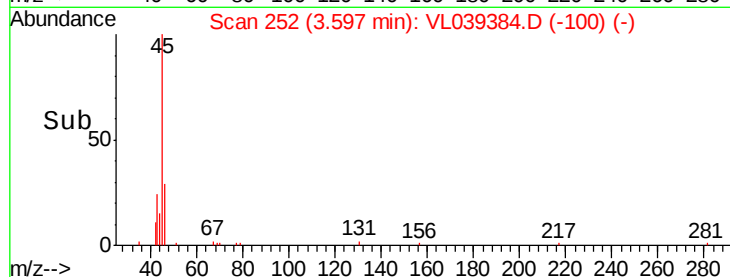
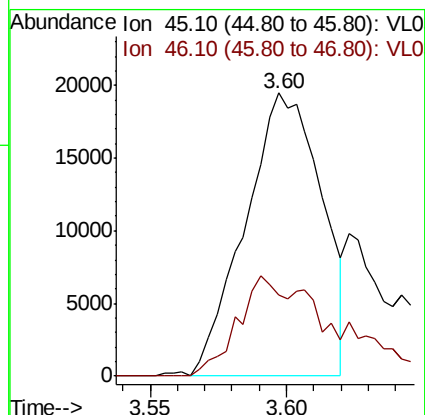
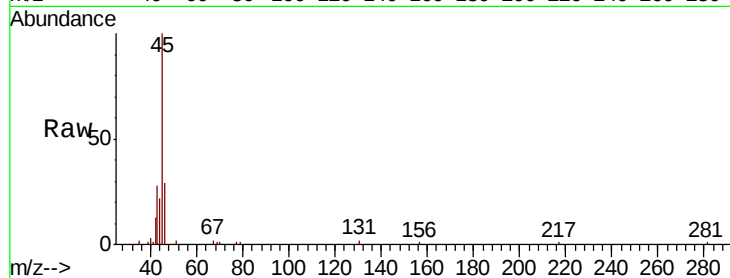
Acq: 28 Jun 2022 8:35 SV-9-20220624DL

Tot Ion: 45 Resp: 37867

Ion Ratio Lower Upper

45 100

46 57.8 0.0 0.0#



#15

Acetone

Concen: 51.711 ppbv

RT: 3.83 min Scan# 326

Delta R.T. -0.02 min

Lab File: VL039384.D

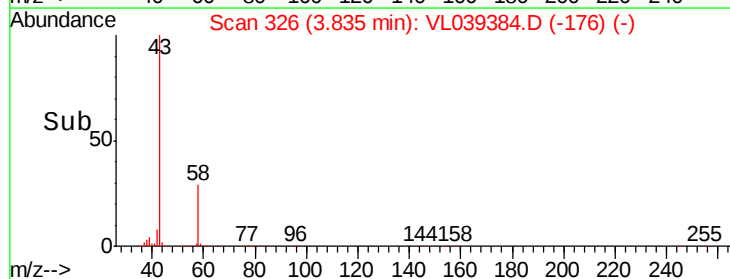
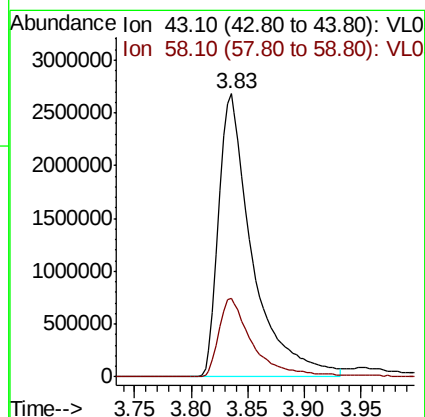
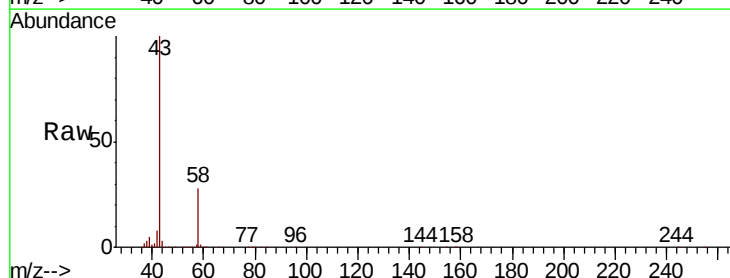
Acq: 28 Jun 2022 8:35

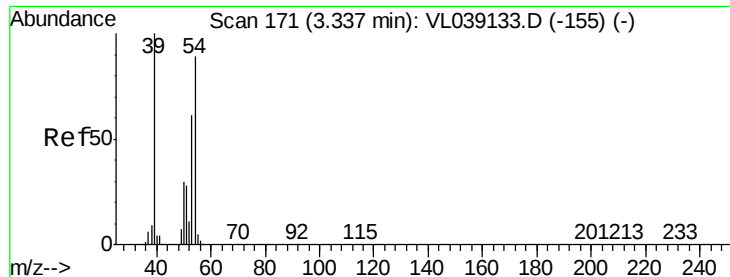
Tgt Ion: 43 Resp: 5557170

Ion Ratio Lower Upper

43 100

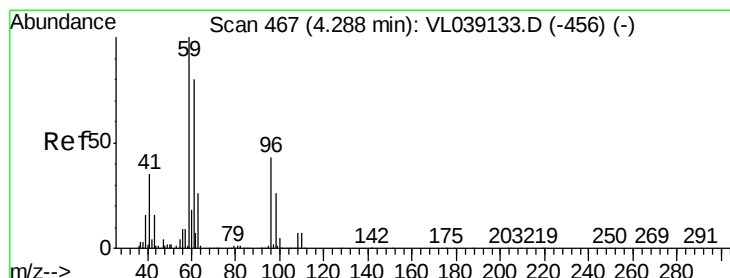
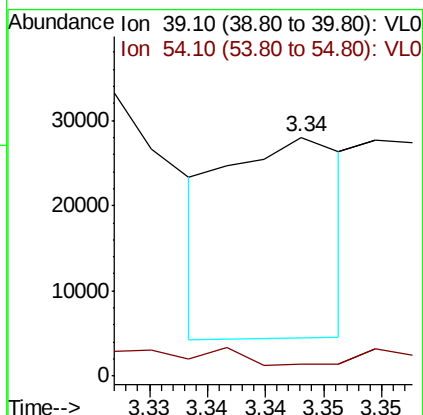
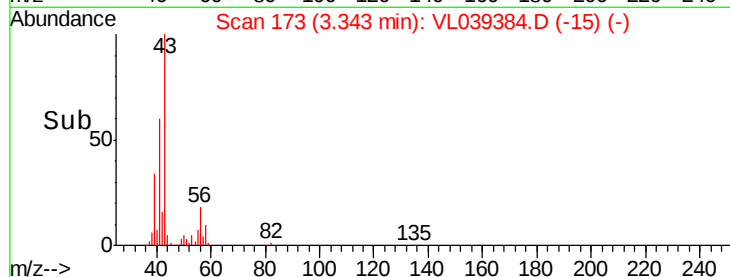
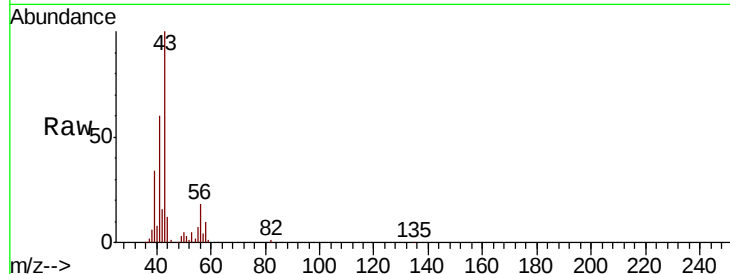
58 29.2 22.5 33.7





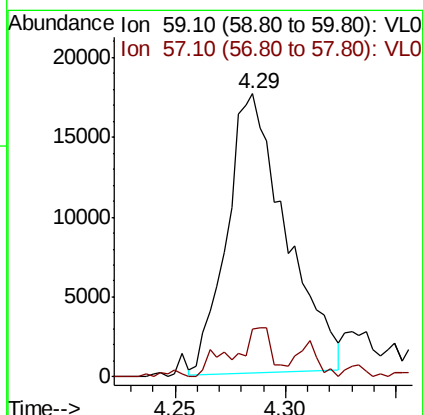
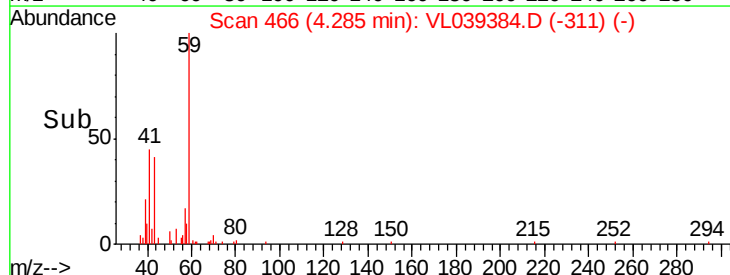
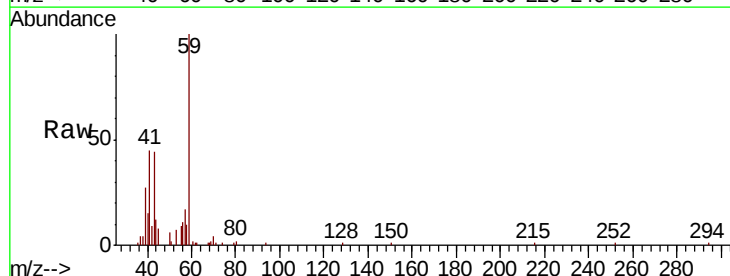
#16
1,3-Butadiene
Concen: 0.290 ppbv
RT: 3.34 Instrument: MSVOA_1
Delta R.T. ClientSampleId:
Lab File: SV-9-20220624DL
Acq: 28 Jun 2022 8:35

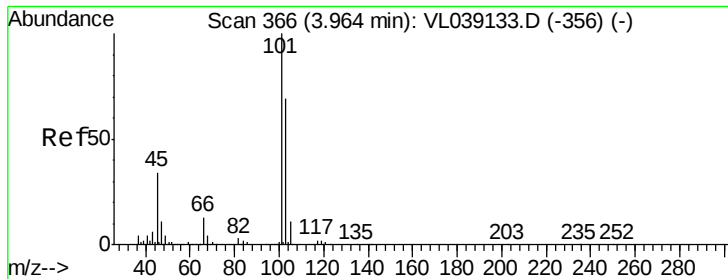
Tot Ion: 39 Resp: 16738
Ion Ratio Lower Upper
39 100
54 0.0 65.8 98.6#



#17
tert-Butyl alcohol
Concen: 0.392 ppbv
RT: 4.29 min Scan# 466
Delta R.T. -0.00 min
Lab File: VL039384.D
Acq: 28 Jun 2022 8:35

Tgt Ion: 59 Resp: 32701
Ion Ratio Lower Upper
59 100
57 19.7 9.1 13.7#





#19

Isopropyl Alcohol

Concen: 6.848 ppbv

RT: 3.95 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

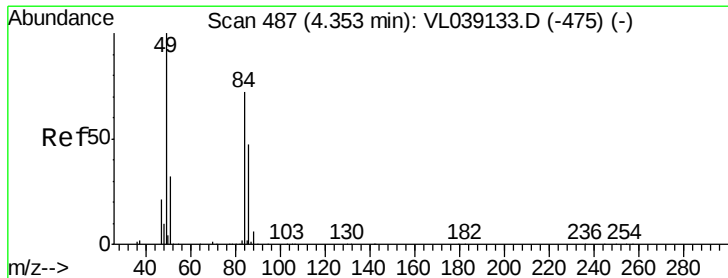
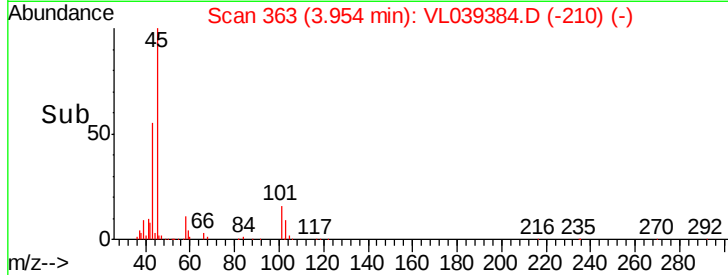
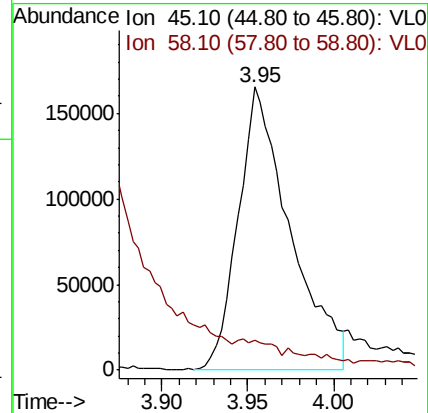
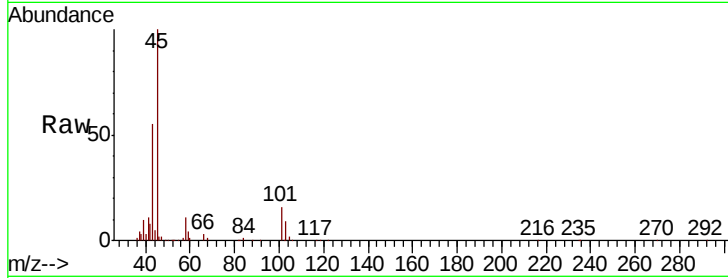
Acq: 28 Jun 2022 8:35

Tot Ion: 45 Resp: 345173

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#



#20

Methylene Chloride

Concen: 1.705 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.02 min

Lab File: VL039384.D

Acq: 28 Jun 2022 8:35

Tgt Ion: 84 Resp: 77203

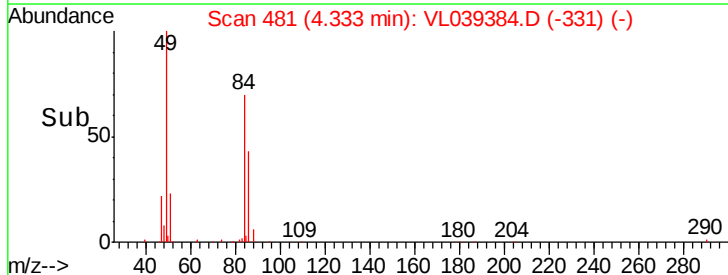
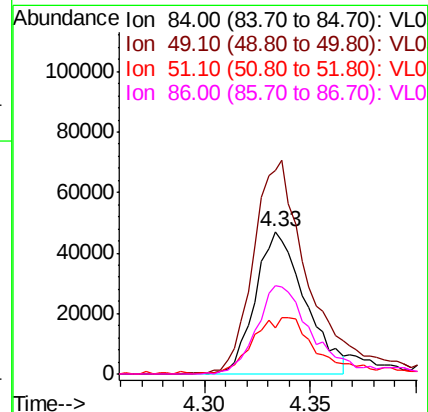
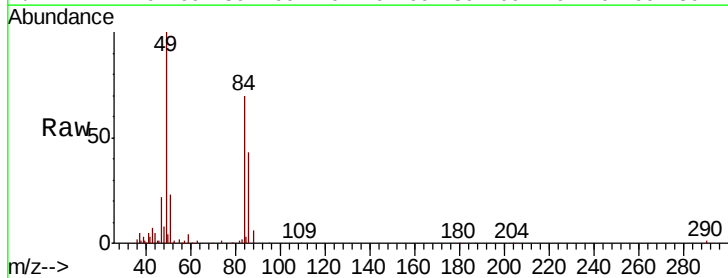
Ion Ratio Lower Upper

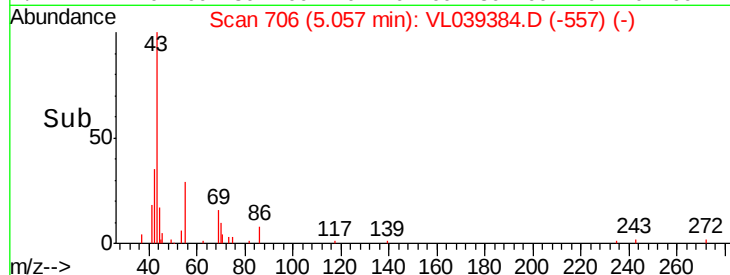
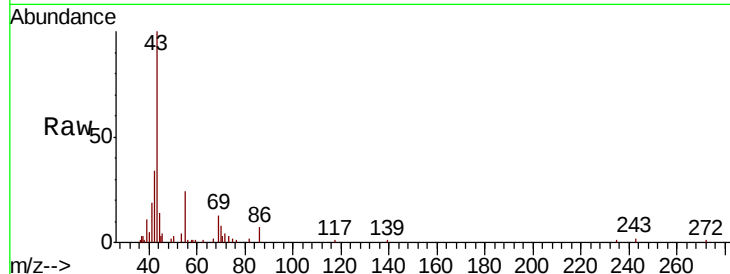
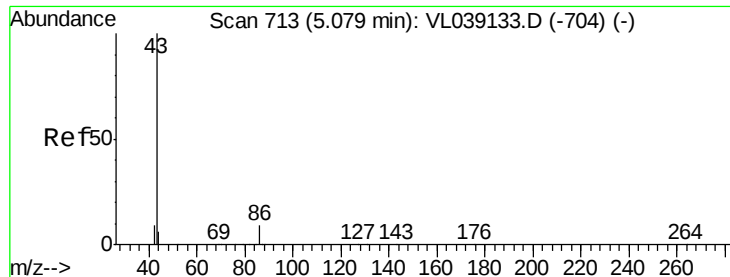
84 100

49 141.9 111.1 166.7

51 32.3 35.3 52.9#

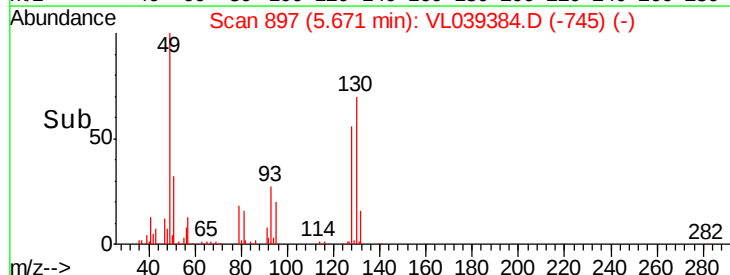
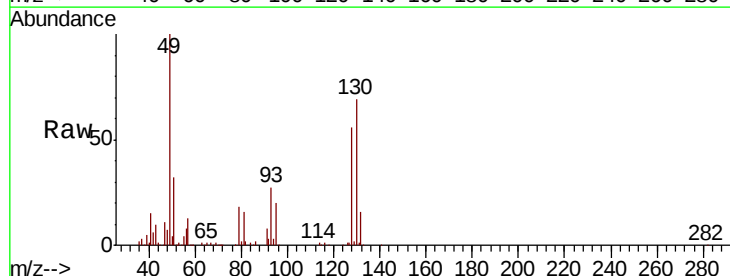
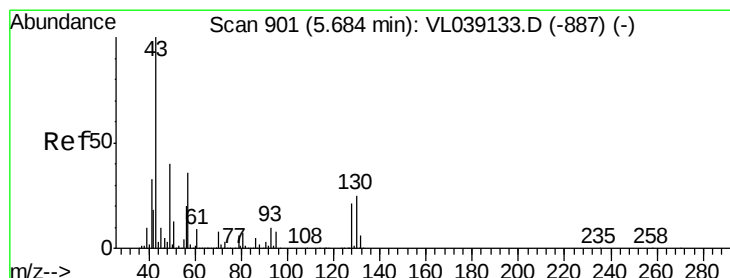
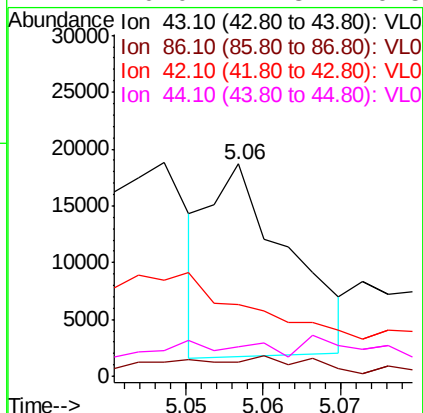
86 61.9 51.9 77.9





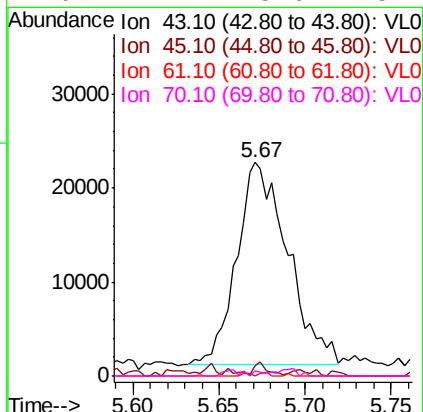
#23
 Vinyl Acetate
 Concen: 0.135 ppbv
 RT: 5.06
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-9-20220624DL
 Acq: 28 Jun 2022 8:35

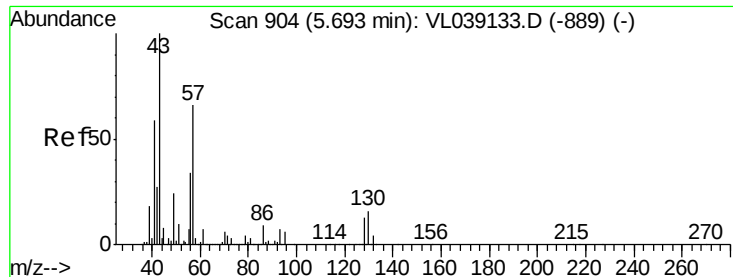
Tot Ion:	43	Resp:	11993
Ion	Ratio	Lower	Upper
43	100		
86	5.2	6.0	9.0#
42	18.9	8.2	12.4#
44	0.0	4.3	6.5#



#25
 Ethyl Acetate
 Concen: 0.185 ppbv
 RT: 5.67 min Scan# 897
 Delta R.T. -0.01 min
 Lab File: VL039384.D
 Acq: 28 Jun 2022 8:35

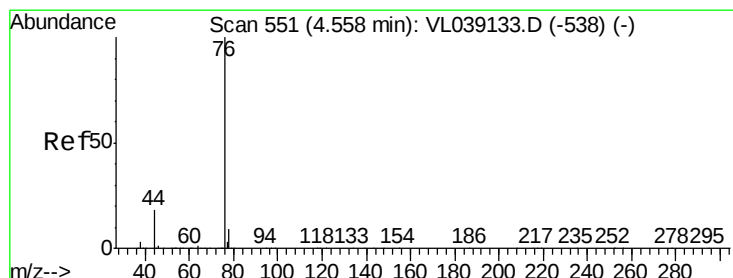
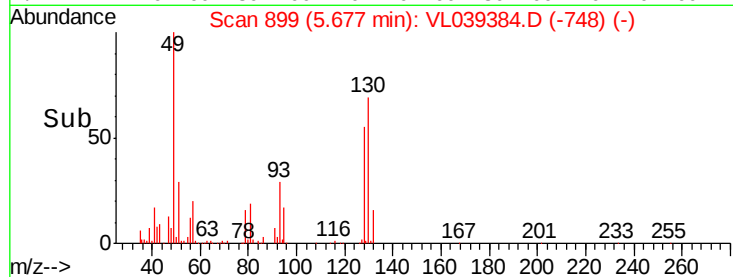
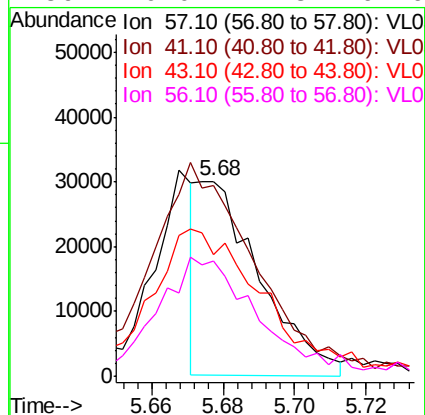
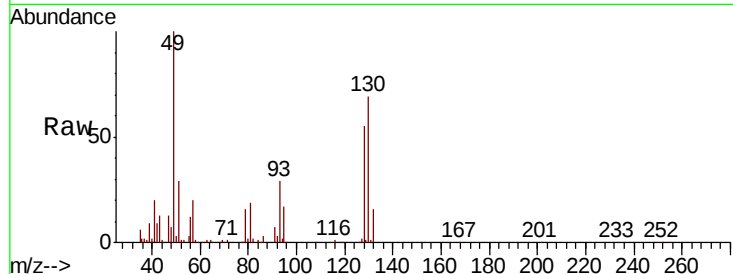
Tgt Ion:	43	Resp:	44688
Ion	Ratio	Lower	Upper
43	100		
45	3.4	8.2	12.2#
61	0.7	8.4	12.6#
70	1.1	5.6	8.4#





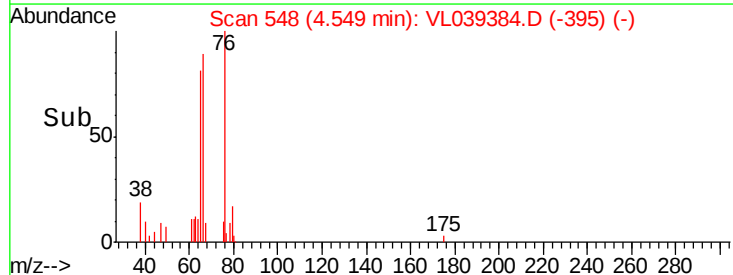
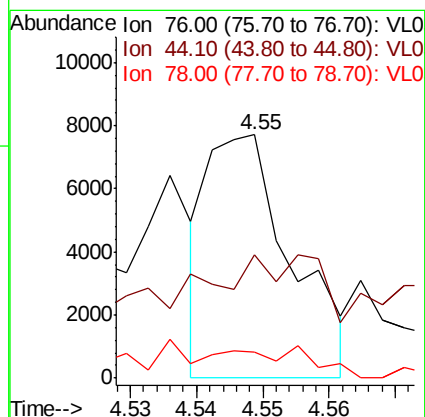
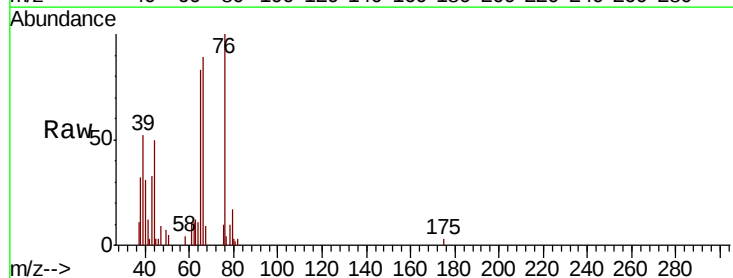
#26
Hexane
Concen: 0.337 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV-9-20220624DL
Acq: 28 Jun 2022 8:35

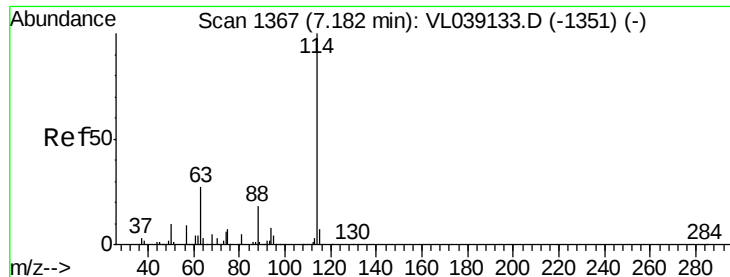
Tot Ion:	57	Resp:	35900
Ion	Ratio	Lower	Upper
57	100		
41	0.0	72.4	108.6#
43	0.0	187.0	280.6#
56	0.0	41.8	62.6#



#27
Carbon Disulfide
Concen: 0.062 ppbv
RT: 4.55 min Scan# 548
Delta R.T. -0.01 min
Lab File: VL039384.D
Acq: 28 Jun 2022 8:35

Tgt Ion:	76	Resp:	6817
Ion	Ratio	Lower	Upper
76	100		
44	86.0	14.4	21.6#
78	0.0	7.7	11.5#

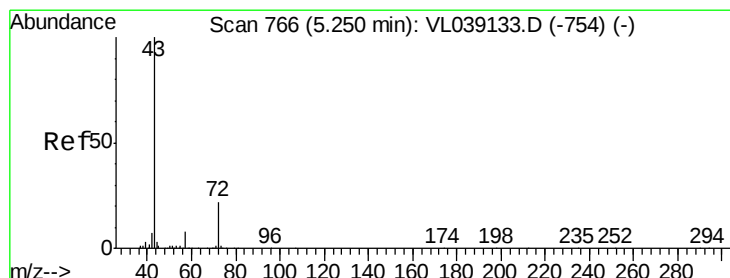
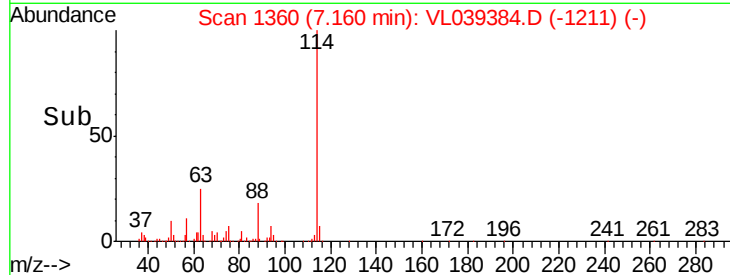
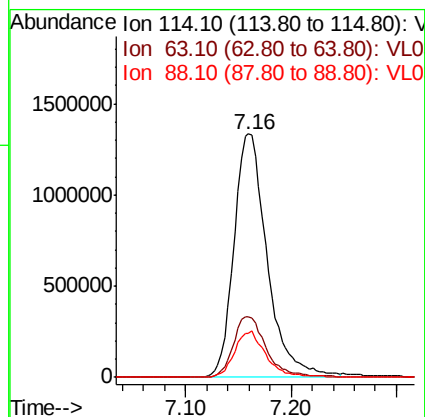
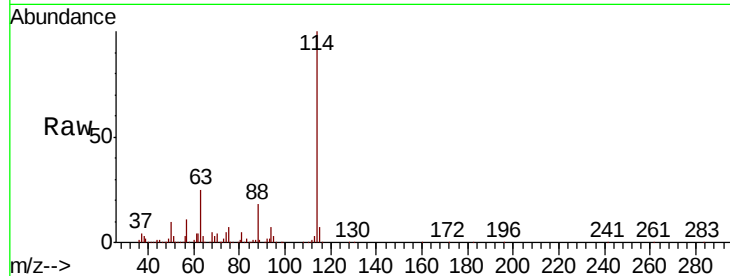




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-9-20220624DL
 Acq: 28 Jun 2022 8:35

Tot Ion:114 Resp: 2915998

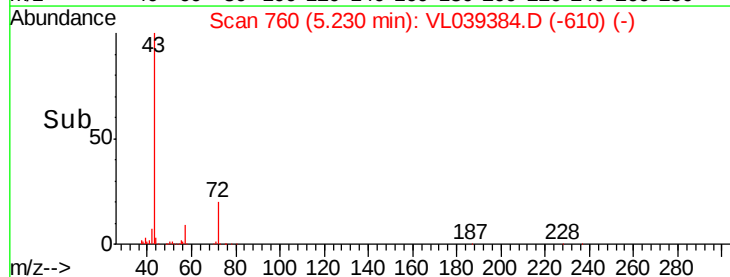
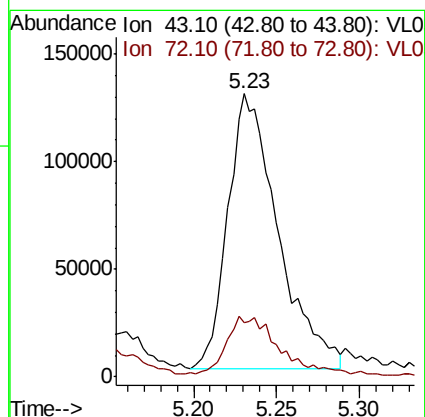
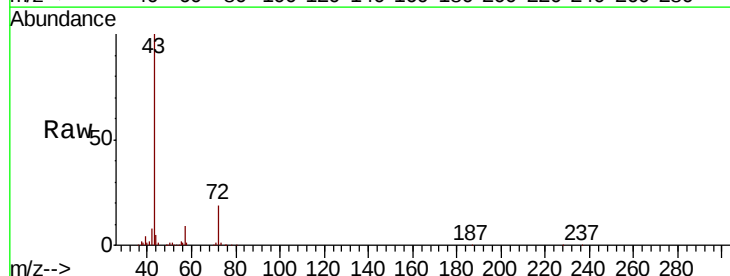
Ion	Ratio	Lower	Upper
114	100		
63	25.2	21.7	32.5
88	18.1	14.8	22.2

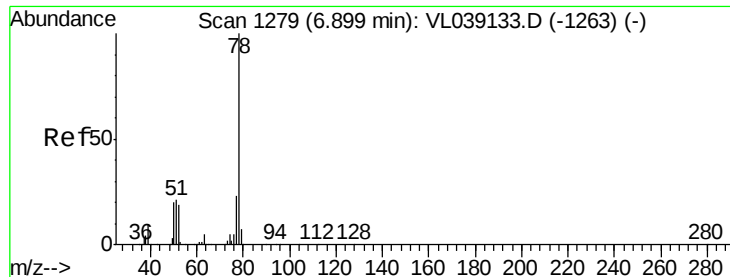


#34
 2-Butanone
 Concen: 1.712 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.02 min
 Lab File: VL039384.D
 Acq: 28 Jun 2022 8:35

Tgt Ion: 43 Resp: 271241

Ion	Ratio	Lower	Upper
43	100		
72	24.9	18.2	27.2





#36

Benzene

Concen: 0.062 ppbv

RT: 6.87 Instrument:

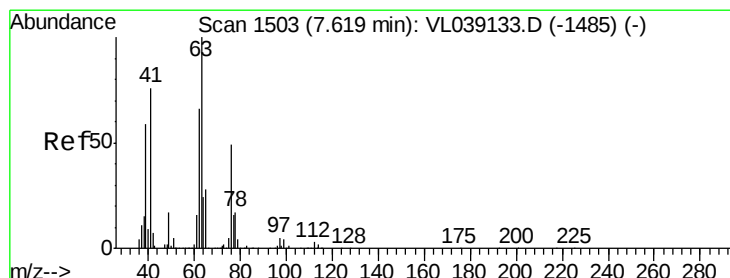
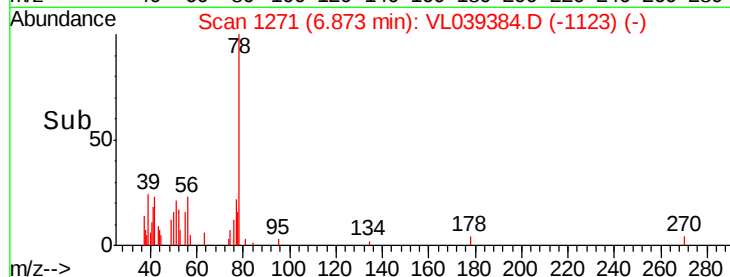
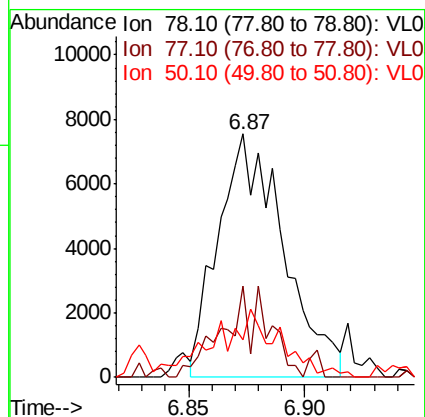
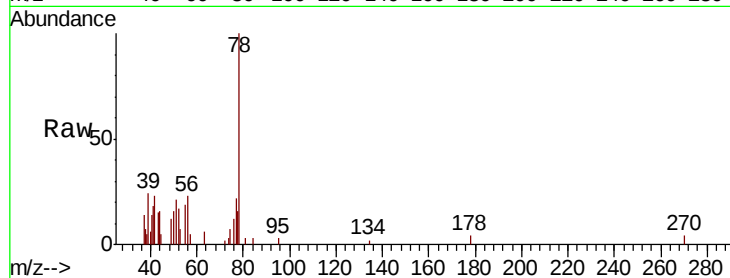
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Jun 2022 8:35 SV-9-20220624DL

Tot Ion: 78 Resp: 14688

Ion	Ratio	Lower	Upper
78	100		
77	35.7	18.6	27.8#
50	14.5	15.8	23.8#



#39

1,2-Dichloropropane

Concen: 7.566 ppbv

RT: 7.16 min Scan# 1360

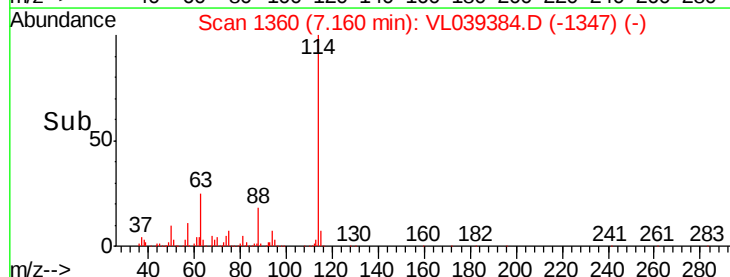
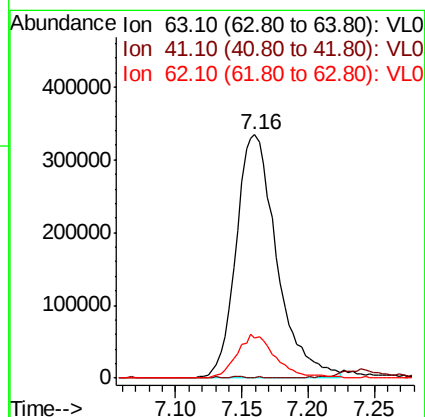
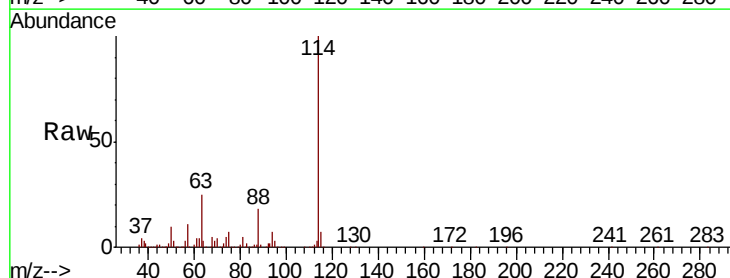
Delta R.T. -0.46 min

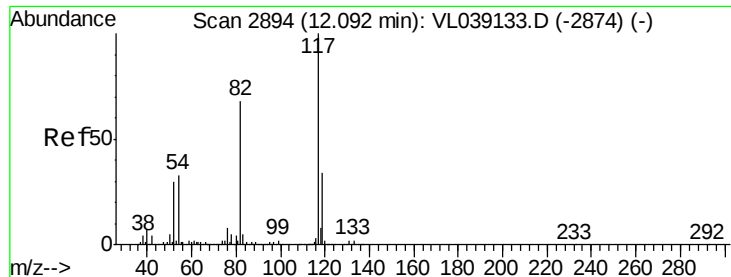
Lab File: VL039384.D

Acq: 28 Jun 2022 8:35

Tgt Ion: 63 Resp: 712450

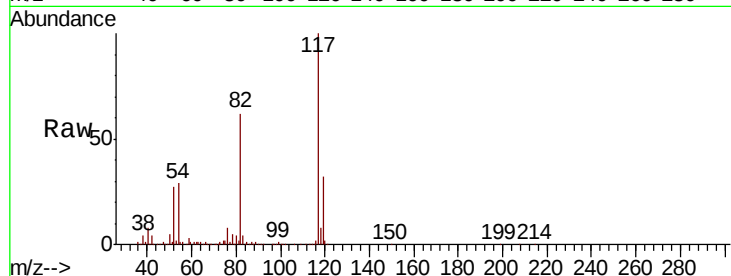
Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.8	91.2#
62	16.4	52.9	79.3#



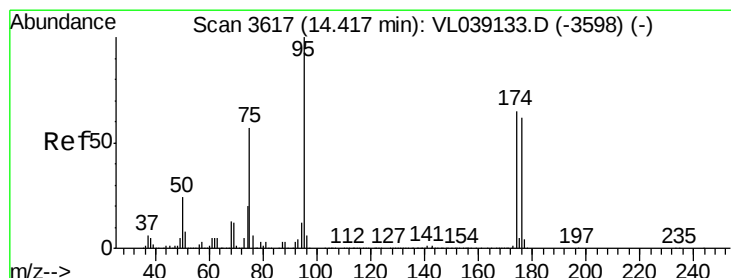
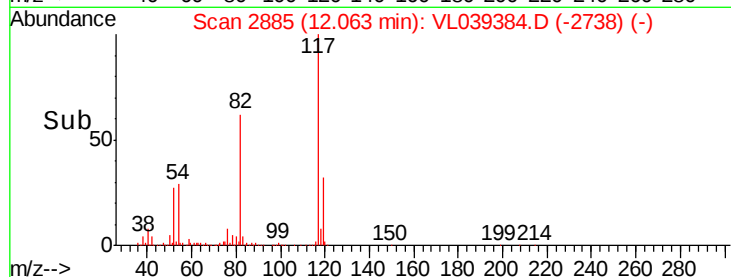
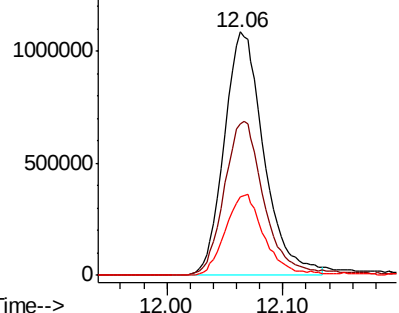


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV-9-20220624DL
Acq: 28 Jun 2022 8:35

Tot Ion: 117 Resp: 2590580
Ion Ratio Lower Upper
117 100
82 65.8 55.1 82.7
119 33.9 24.7 37.1

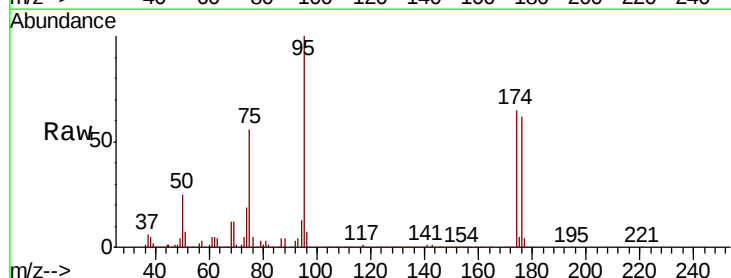


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

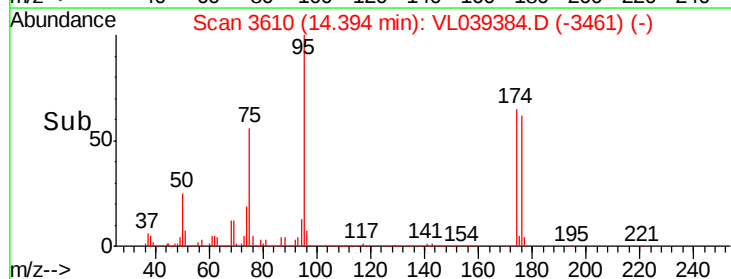
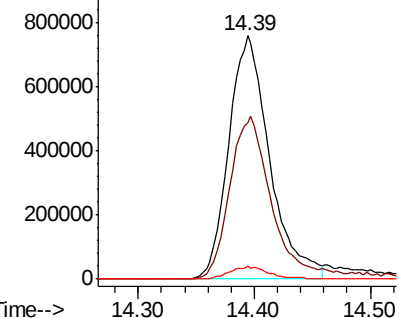


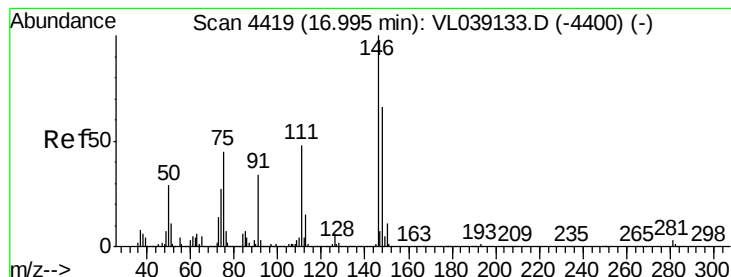
#68
1-Bromo-4-Fluorobenzene
Concen: 8.714 ppbv
RT: 14.39 min Scan# 3610
Delta R.T. -0.02 min
Lab File: VL039384.D
Acq: 28 Jun 2022 8:35

Tgt Ion: 95 Resp: 1866377
Ion Ratio Lower Upper
95 100
174 70.2 53.8 80.8
175 5.1 4.1 6.1



Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V





#75

1,3-Dichlorobenzene

Concen: 0.037 ppbv

RT: 16.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Jun 2022 8:35

Tot Ion:146 Resp: 7245

Ion Ratio Lower Upper

146 100

111 252.3 23.8 71.4#

148 0.0 32.4 97.0#

