

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062422\
 Data File : VL039356.D
 Acq On : 25 Jun 2022 1:10
 Operator : SY/AP
 Sample : N3453-09
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Quant Time: Jun 27 01:52:53 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	5.66	49	1095236	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	2970269	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	2615813	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	1968108	9.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.00%

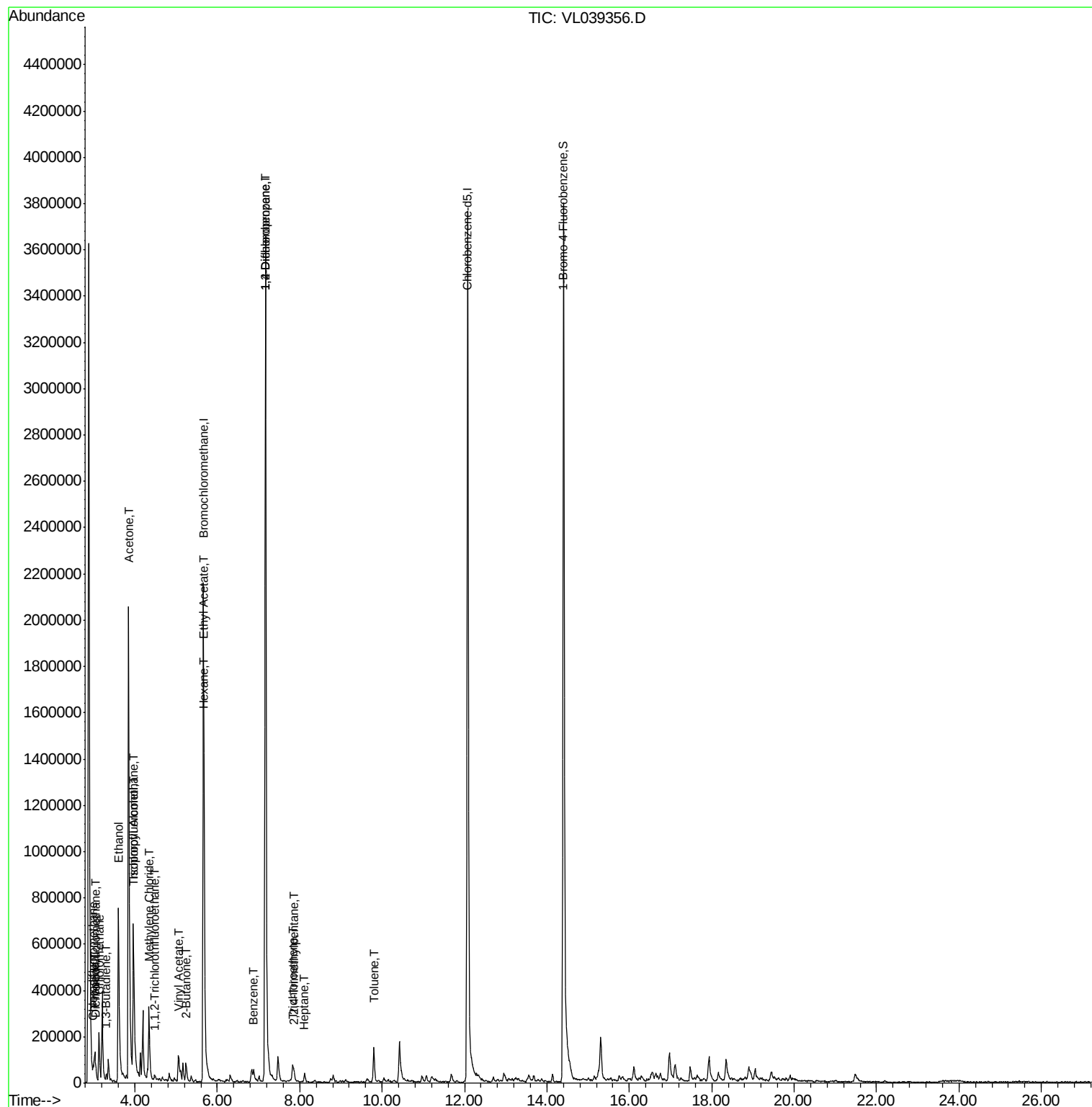
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	40761	0.212	ppbv	98
3) Chlorodifluoromethane	2.99	51	74954	0.538	ppbv	95
4) Chloromethane	3.14	50	40045	0.559	ppbv	95
9) Propene	3.02	41	22423	0.369	ppbv #	51
10) Heptane	8.10	43	4894	0.035	ppbv #	26
11) Trichlorofluoromethane	3.95	101	37969	0.218	ppbv	94
12) 1,1,2-Trichlorotrifluoroet	4.48	101	4026	0.035	ppbv #	12
13) Ethanol	3.60	45	957004	288.792	ppbv #	100
15) Acetone	3.84	43	2610798	22.884	ppbv	97
16) 1,3-Butadiene	3.31	39	6000	0.098	ppbv #	8
19) Isopropyl Alcohol	3.96	45	793414	14.827	ppbv #	97
20) Methylene Chloride	4.34	84	126092	2.623	ppbv	92
23) Vinyl Acetate	5.06	43	112519	1.192	ppbv #	82
25) Ethyl Acetate	5.68	43	86717	0.337	ppbv #	88
26) Hexane	5.69	57	46042	0.407	ppbv #	42
34) 2-Butanone	5.24	43	103300	0.640	ppbv	95
36) Benzene	6.89	78	20363	0.084	ppbv #	82
38) Trichloroethene	7.83	130	13858	0.125	ppbv #	80
39) 1,2-Dichloropropane	7.17	63	741302	7.729	ppbv #	25
44) 2,2,4-Trimethylpentane	7.87	57	16064	0.038	ppbv #	1
53) Toluene	9.80	91	102159	0.368	ppbv	100

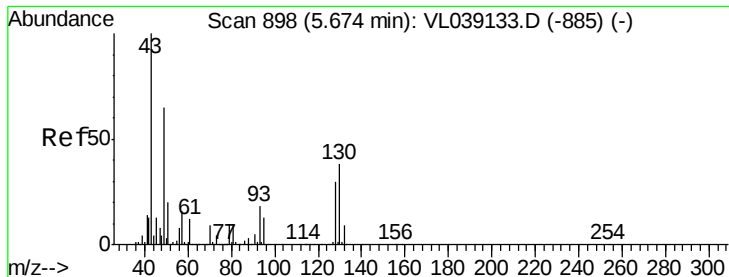
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: AA-1

Acq: 25 Jun 2022 1:10

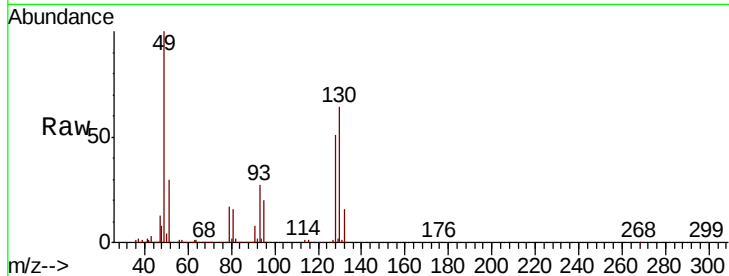
Tot Ion: 49 Resp: 1095236

Ion Ratio Lower Upper

49 100

128 52.7 24.7 74.1

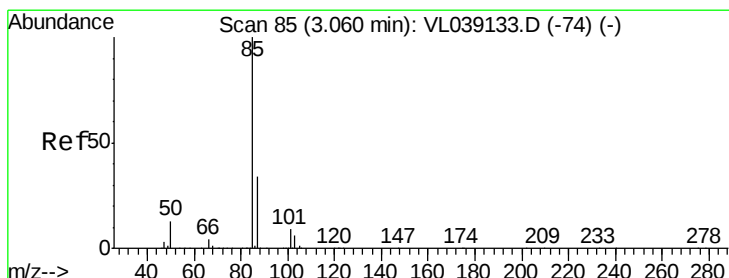
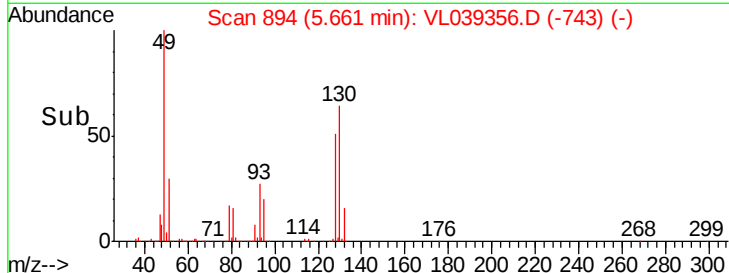
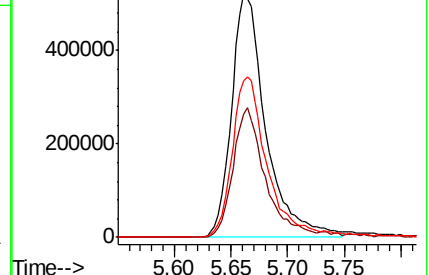
130 68.6 31.4 94.0



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: 0.212 ppbv

RT: 3.05 min Scan# 82

Delta R.T. -0.01 min

Lab File: VL039356.D

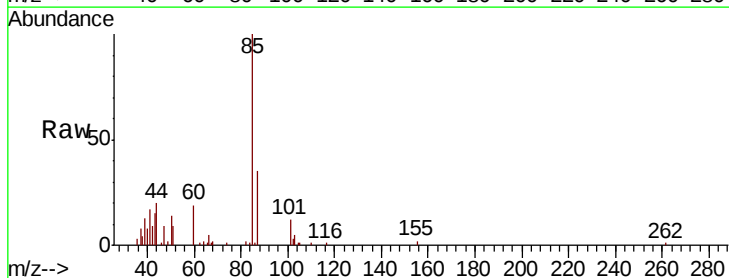
Acq: 25 Jun 2022 1:10

Tgt Ion: 85 Resp: 40761

Ion Ratio Lower Upper

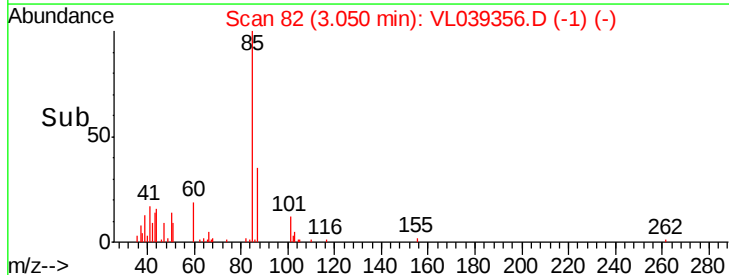
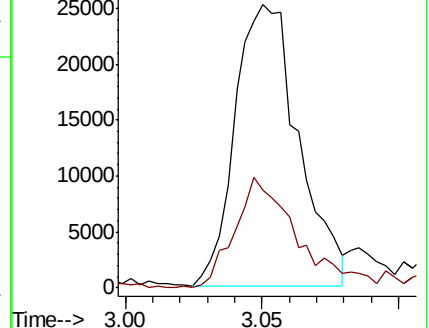
85 100

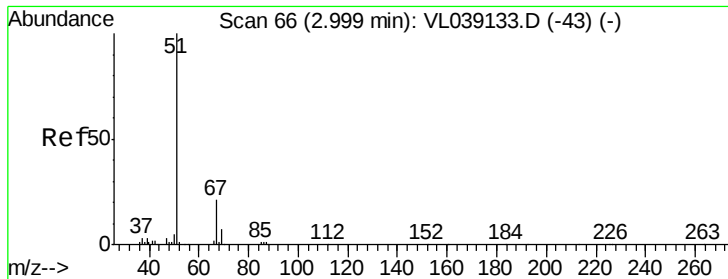
87 34.8 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.538 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: AA-1

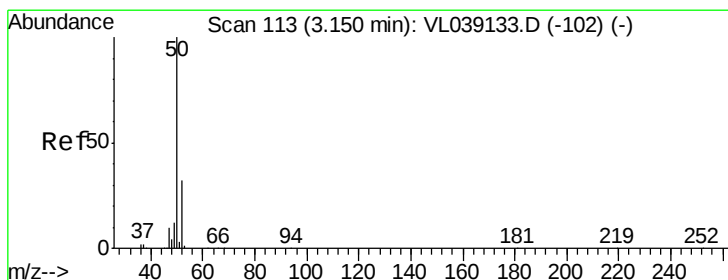
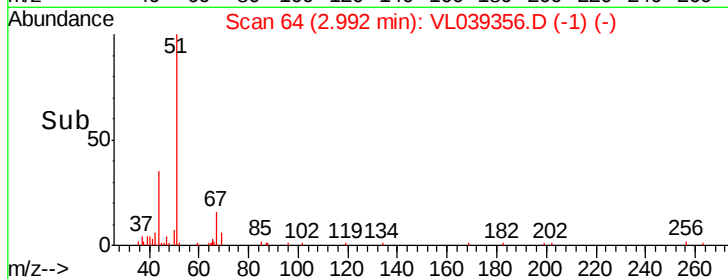
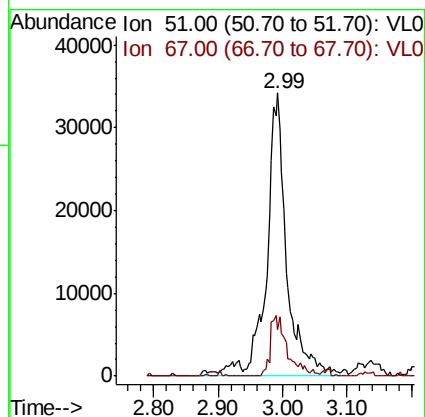
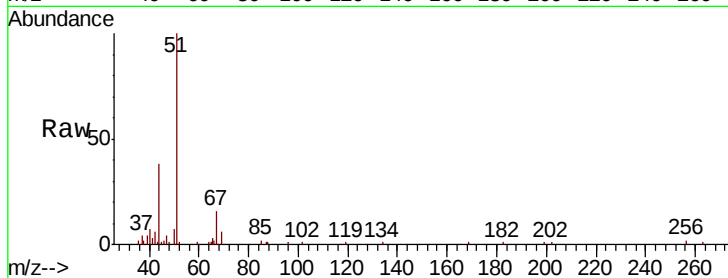
Acq: 25 Jun 2022 1:10

Tot Ion: 51 Resp: 74954

Ion Ratio Lower Upper

51 100

67 18.0 16.2 24.4



#4

Chloromethane

Concen: 0.559 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.01 min

Lab File: VL039356.D

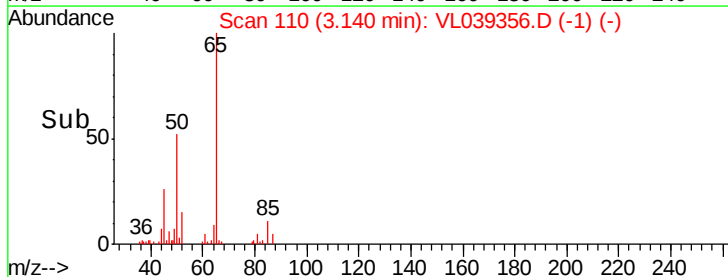
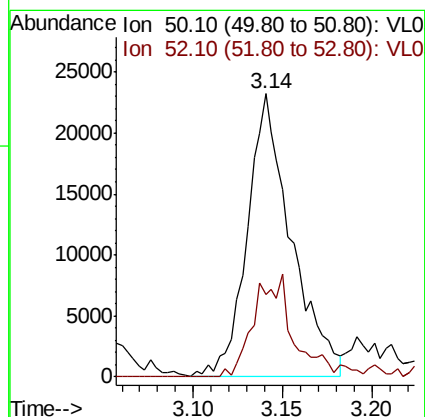
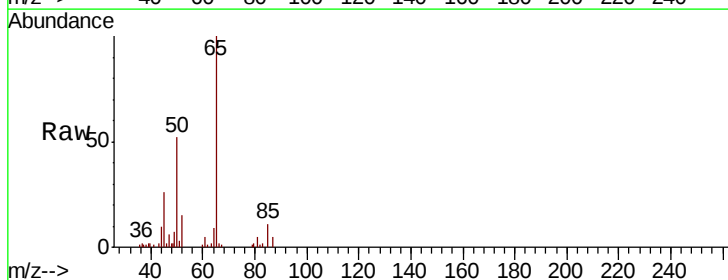
Acq: 25 Jun 2022 1:10

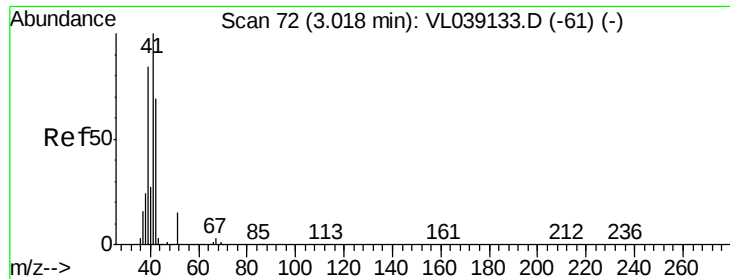
Tgt Ion: 50 Resp: 40045

Ion Ratio Lower Upper

50 100

52 29.3 25.9 38.9





#9

Propene

Concen: 0.369 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

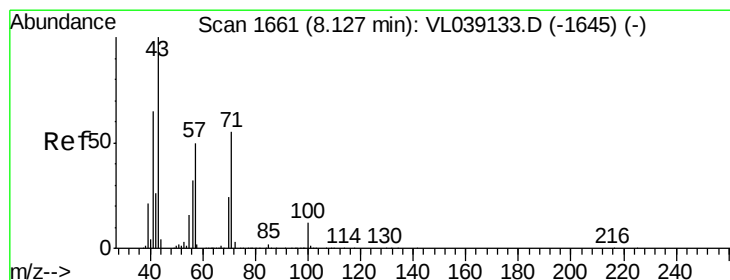
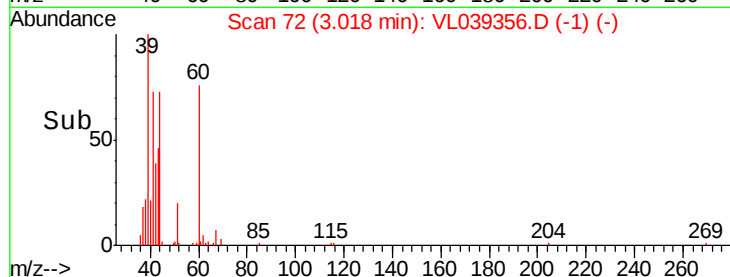
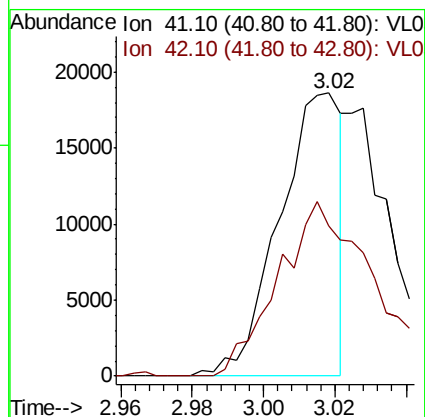
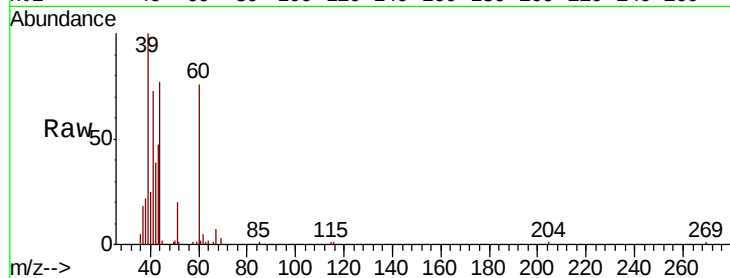
Acq: 25 Jun 2022 1:10

Tot Ion: 41 Resp: 22423

Ion Ratio Lower Upper

41 100

42 108.9 55.4 83.2#



#10

Heptane

Concen: 0.035 ppbv

RT: 8.10 min Scan# 1654

Delta R.T. -0.02 min

Lab File: VL039356.D

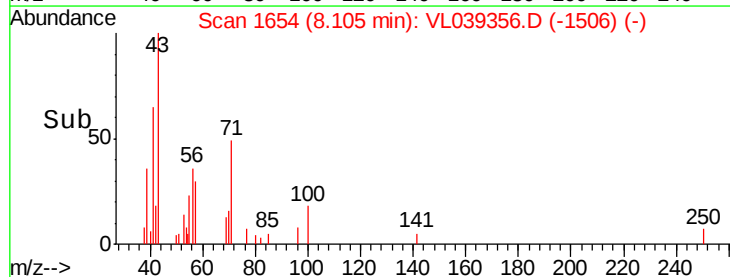
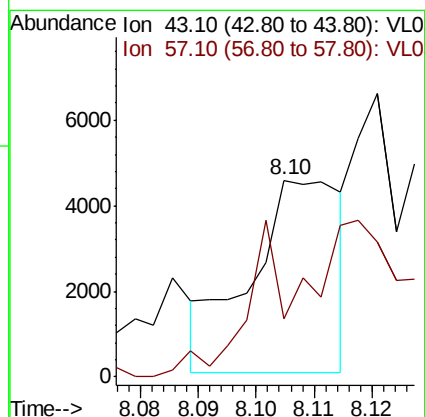
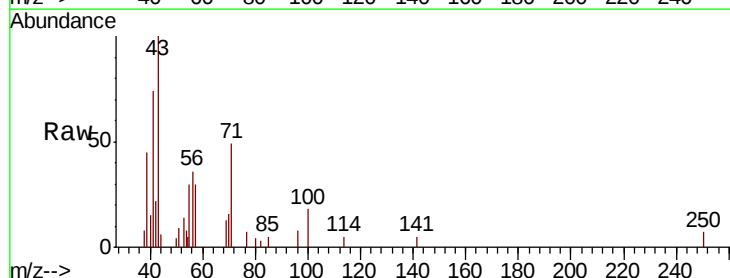
Acq: 25 Jun 2022 1:10

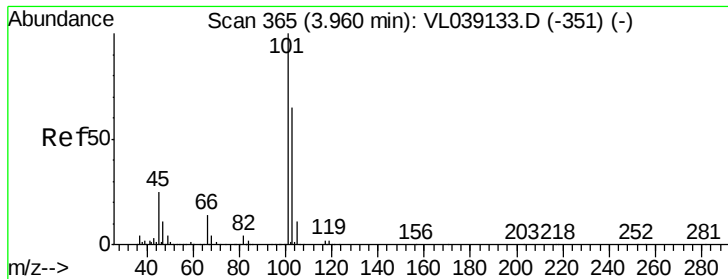
Tgt Ion: 43 Resp: 4894

Ion Ratio Lower Upper

43 100

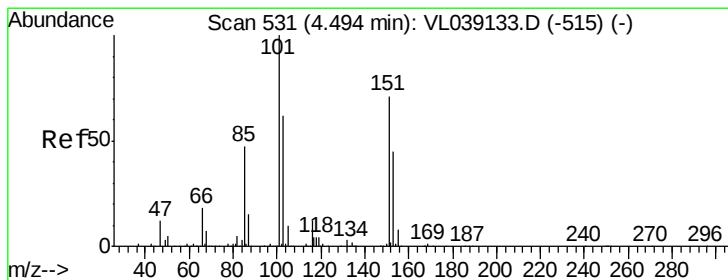
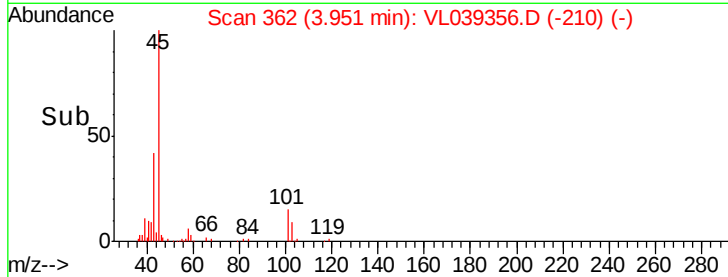
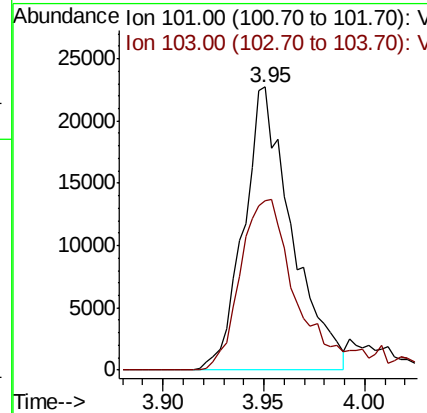
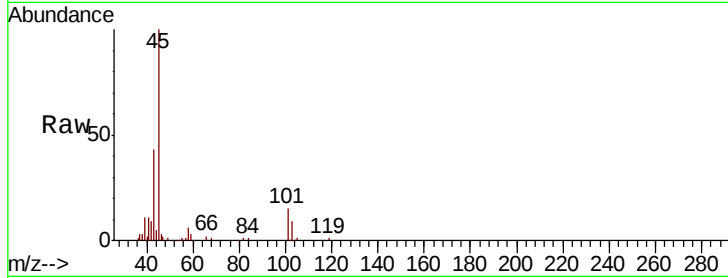
57 0.0 41.4 62.2#





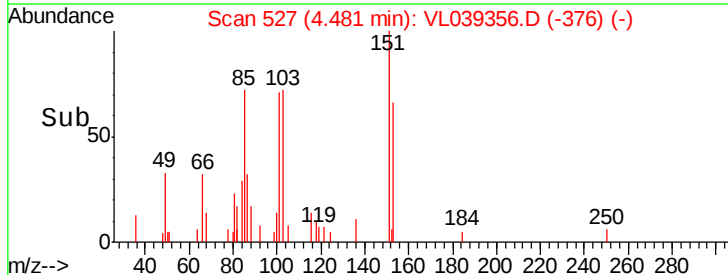
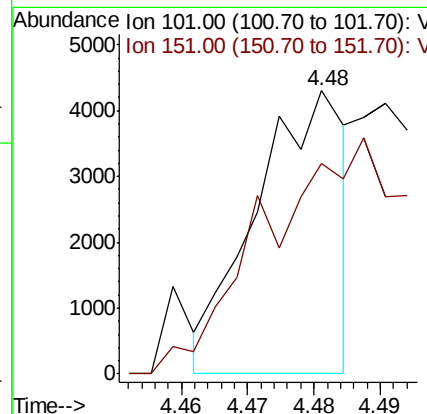
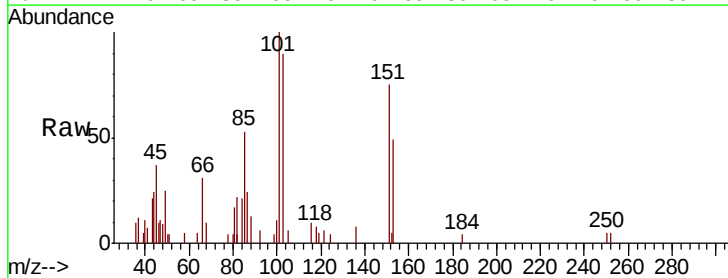
#11
 Trichlorofluoromethane
 Concen: 0.218 ppbv
 RT: 3.95 Instrument: MSVOA_1
 Delta R.T.: ClientSampleId:
 Lab File: AA-1
 Acq: 25 Jun 2022 1:10

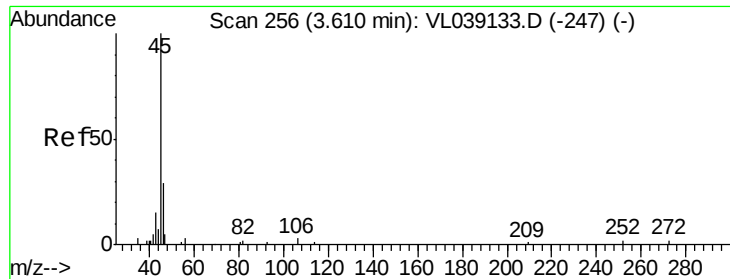
Tot Ion:101 Resp: 37969
 Ion Ratio Lower Upper
 101 100
 103 60.0 51.7 77.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.035 ppbv
 RT: 4.48 min Scan# 527
 Delta R.T. -0.01 min
 Lab File: VL039356.D
 Acq: 25 Jun 2022 1:10

Tgt Ion:101 Resp: 4026
 Ion Ratio Lower Upper
 101 100
 151 0.0 59.4 89.0#





#13

Ethanol

Concen: 288.792 ppbv

RT: 3.60 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

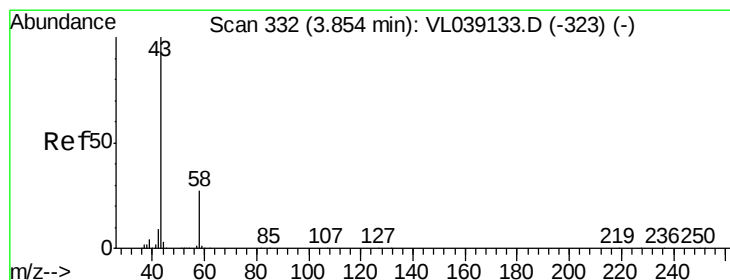
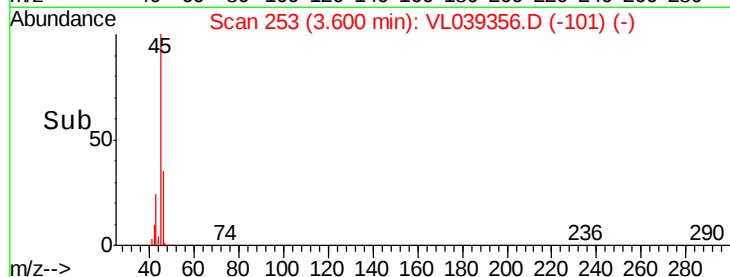
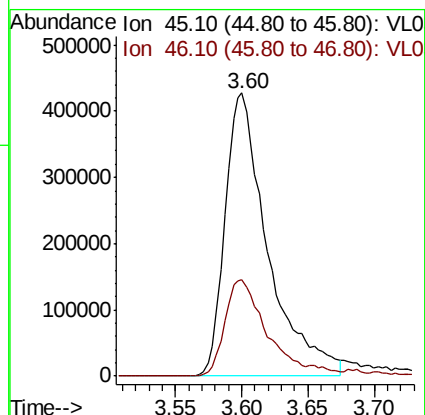
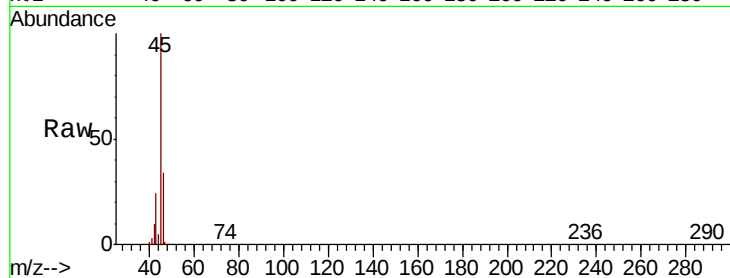
Acq: 25 Jun 2022 1:10

Tot Ion: 45 Resp: 957004

Ion Ratio Lower Upper

45 100

46 37.0 0.0 0.0#



#15

Acetone

Concen: 22.884 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL039356.D

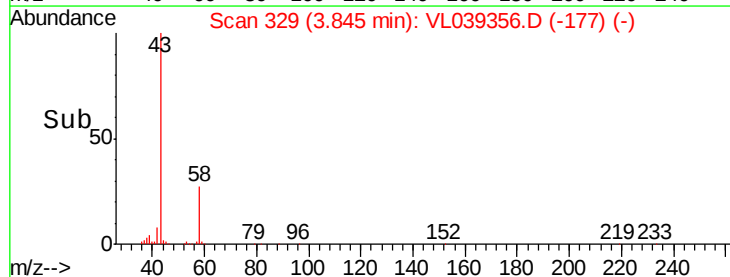
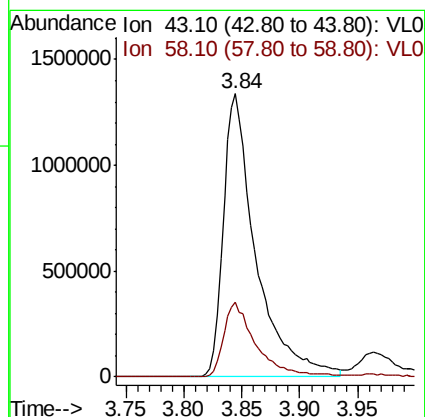
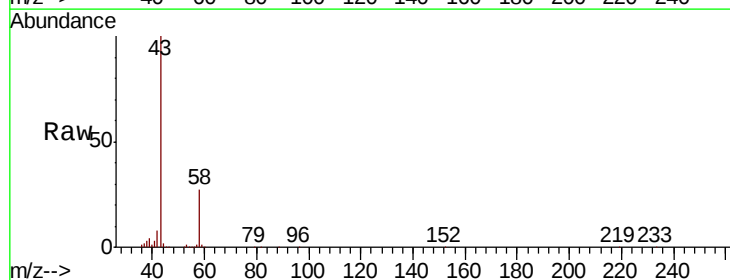
Acq: 25 Jun 2022 1:10

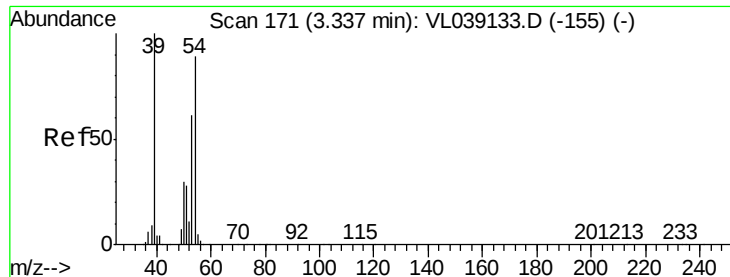
Tgt Ion: 43 Resp: 2610798

Ion Ratio Lower Upper

43 100

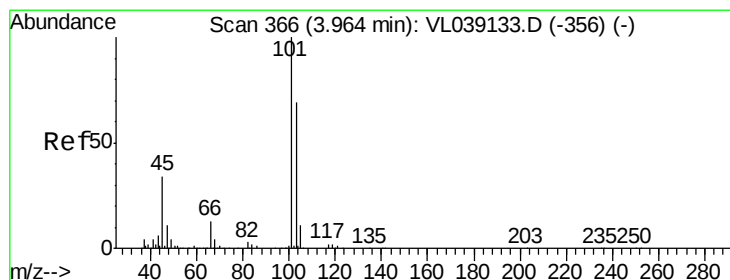
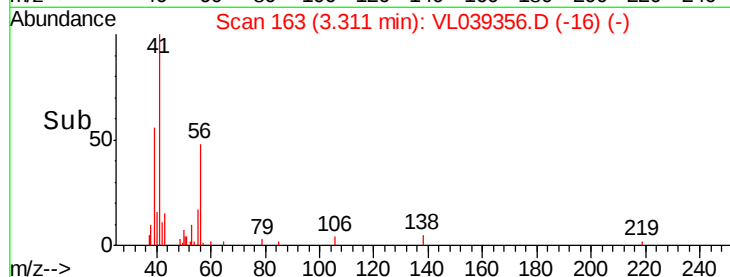
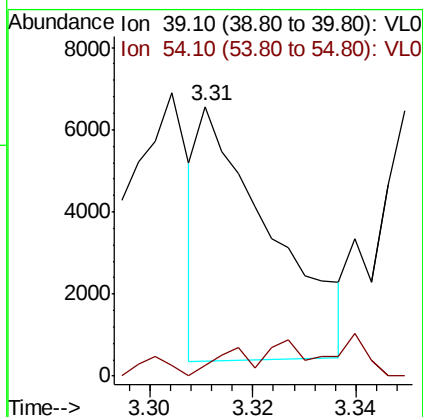
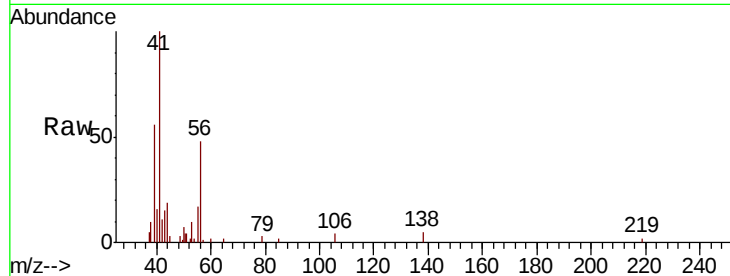
58 26.5 22.5 33.7





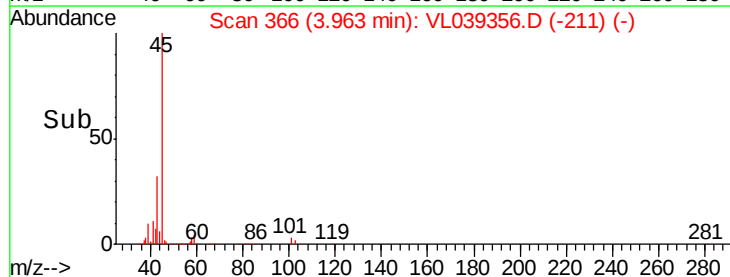
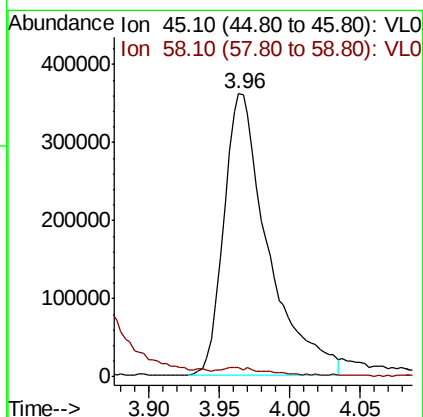
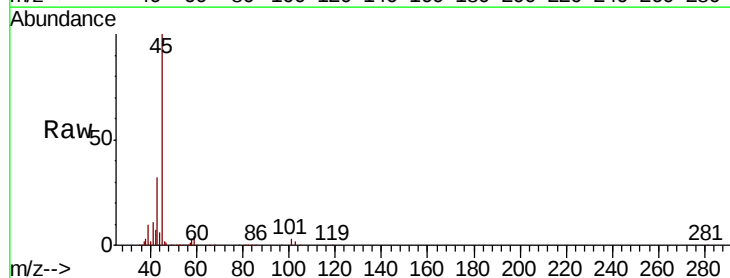
#16
 1,3-Butadiene
 Concen: 0.098 ppbv
 RT: 3.31
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Jun 2022 1:10

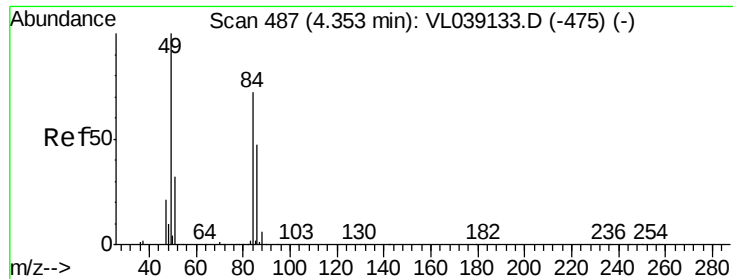
Tot Ion: 39 Resp: 6000
 Ion Ratio Lower Upper
 39 100
 54 0.0 65.8 98.6#



#19
 Isopropyl Alcohol
 Concen: 14.827 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. -0.00 min
 Lab File: VL039356.D
 Acq: 25 Jun 2022 1:10

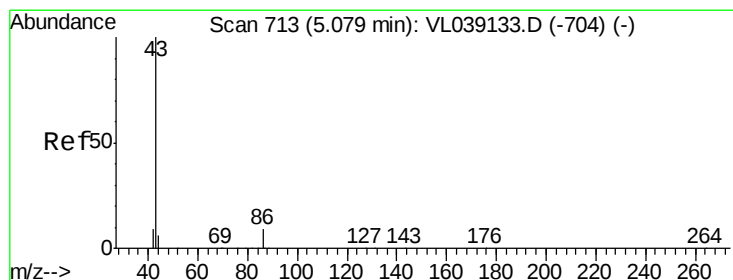
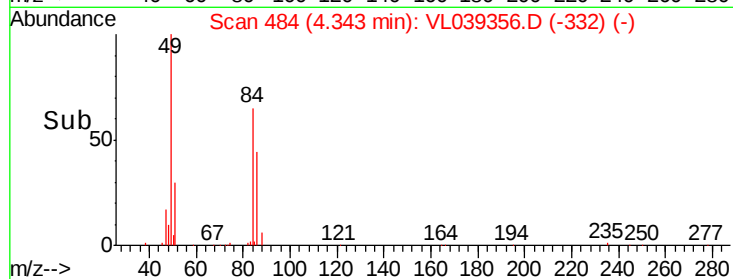
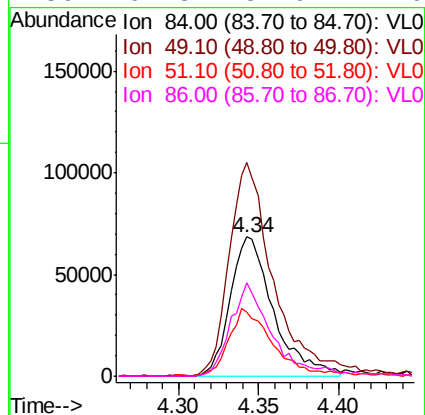
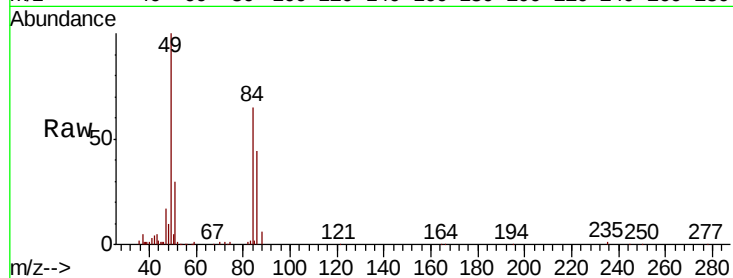
Tgt Ion: 45 Resp: 793414
 Ion Ratio Lower Upper
 45 100
 58 3.3 1.8 2.8#





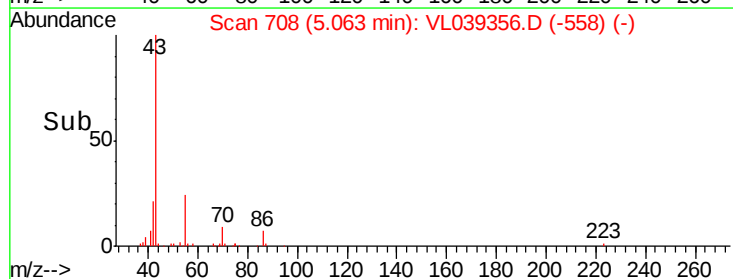
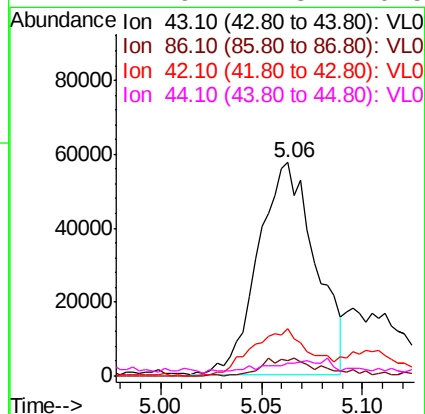
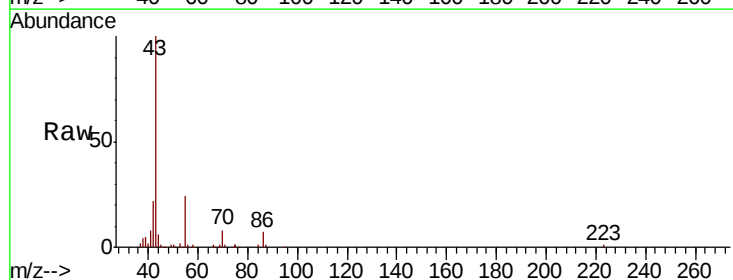
#20
Methvlene Chloride
Concen: 2.623 ppbv
RT: 4.34
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Jun 2022 1:10

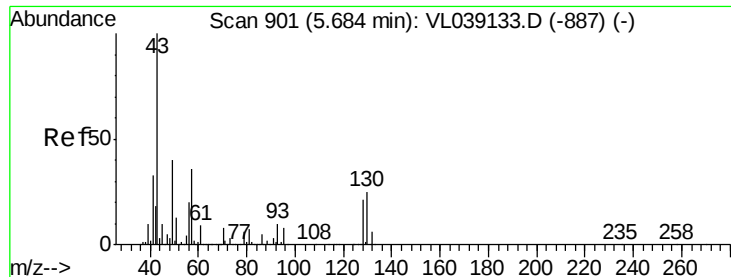
Tot Ion:	84	Resp:	126092
Ion Ratio	Lower	Upper	
84	100		
49	153.5	111.1	166.7
51	45.8	35.3	52.9
86	67.3	51.9	77.9



#23
Vinyl Acetate
Concen: 1.192 ppbv
RT: 5.06 min Scan# 708
Delta R.T. -0.02 min
Lab File: VL039356.D
Acq: 25 Jun 2022 1:10

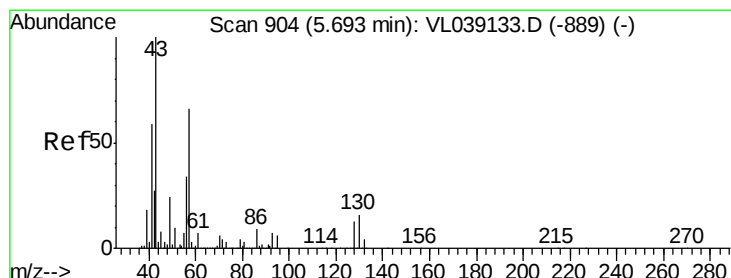
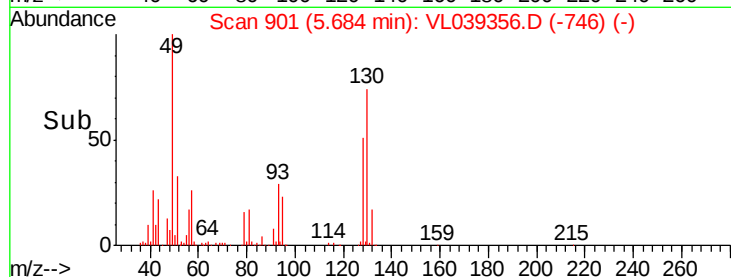
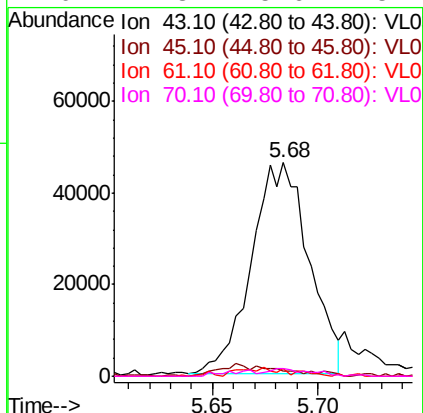
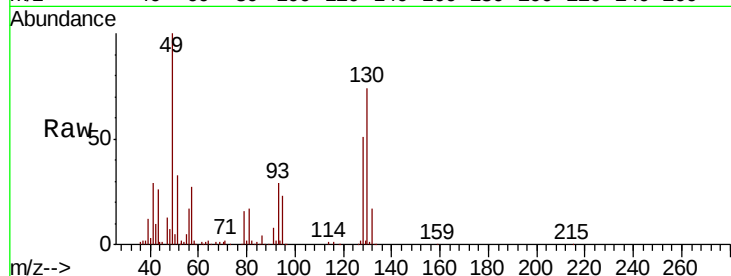
Tgt Ion:	43	Resp:	112519
Ion Ratio	Lower	Upper	
43	100		
86	7.2	6.0	9.0
42	23.2	8.2	12.4#
44	2.6	4.3	6.5#





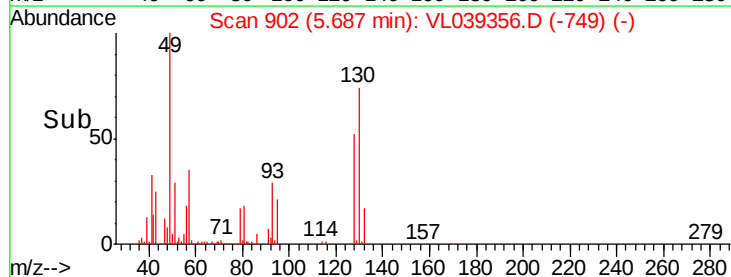
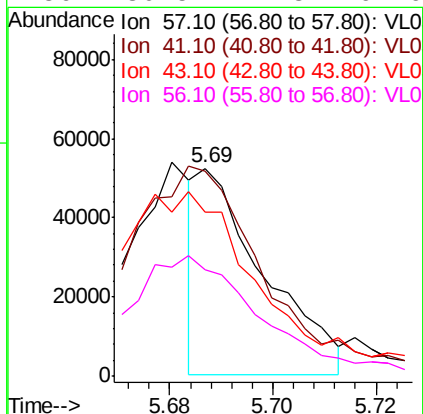
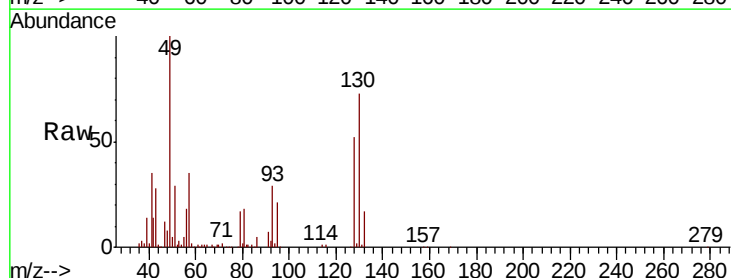
#25
Ethyl Acetate
Concen: 0.337 ppbv
RT: 5.68 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Jun 2022 1:10

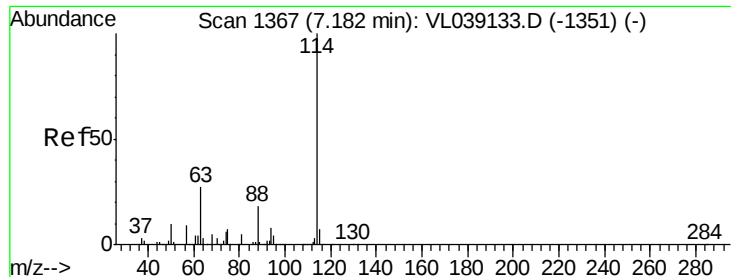
Tot Ion:	43	Resp:	86717
Ion	Ratio	Lower	Upper
43	100		
45	6.3	8.2	12.2#
61	4.3	8.4	12.6#
70	4.3	5.6	8.4#



#26
Hexane
Concen: 0.407 ppbv
RT: 5.69 min Scan# 902
Delta R.T. -0.01 min
Lab File: VL039356.D
Acq: 25 Jun 2022 1:10

Tgt Ion:	57	Resp:	46042
Ion	Ratio	Lower	Upper
57	100		
41	236.1	72.4	108.6#
43	219.8	187.0	280.6
56	130.5	41.8	62.6#

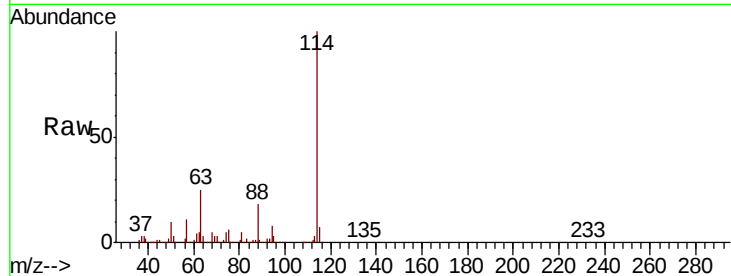




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Jun 2022 1:10

Tot Ion:114 Resp: 2970269

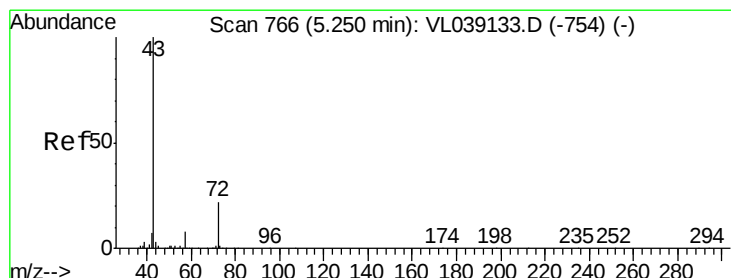
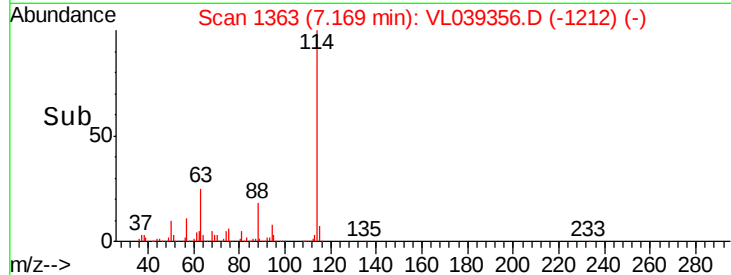
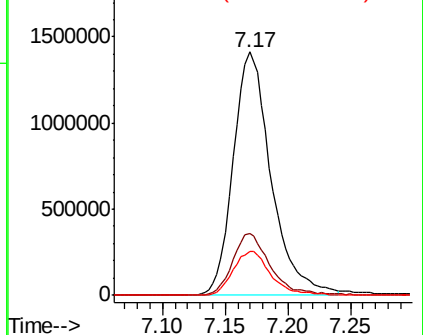
Ion	Ratio	Lower	Upper
114	100		
63	25.6	21.7	32.5
88	18.3	14.8	22.2



Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

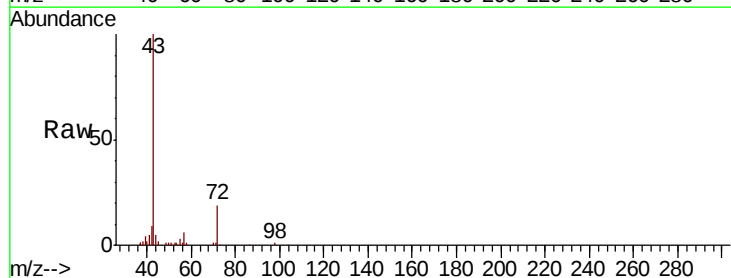
Ion 88.10 (87.80 to 88.80): VL0



#34
 2-Butanone
 Concen: 0.640 ppbv
 RT: 5.24 min Scan# 764
 Delta R.T. -0.01 min
 Lab File: VL039356.D
 Acq: 25 Jun 2022 1:10

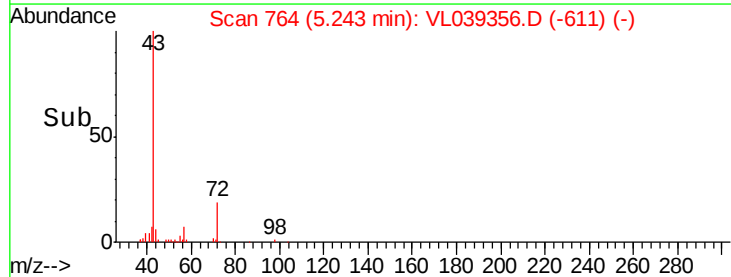
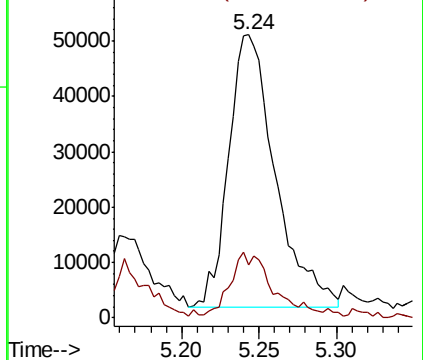
Tgt Ion: 43 Resp: 103300

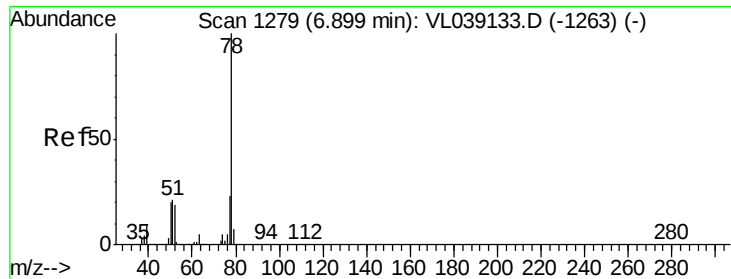
Ion	Ratio	Lower	Upper
43	100		
72	25.1	18.2	27.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

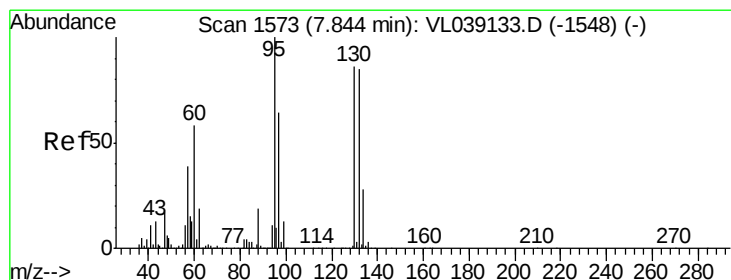
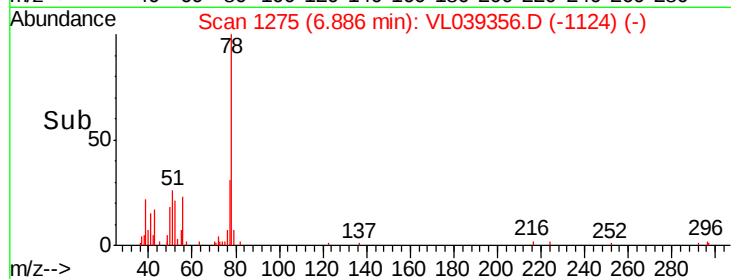
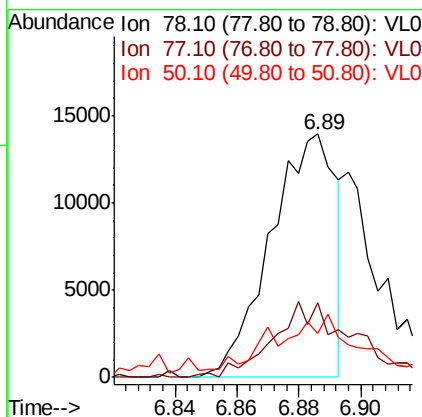
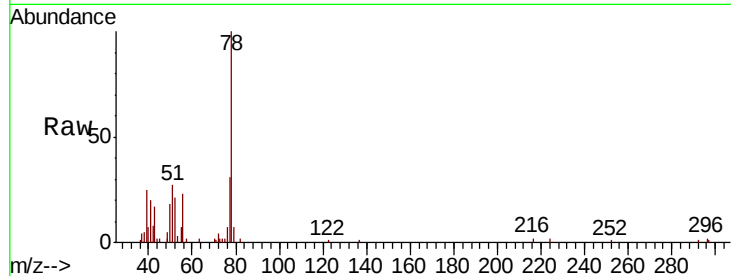
Ion 72.10 (71.80 to 72.80): VL0





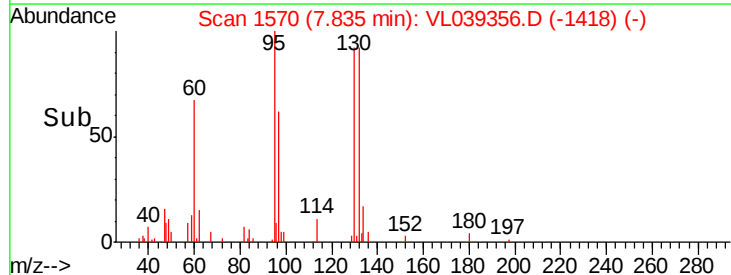
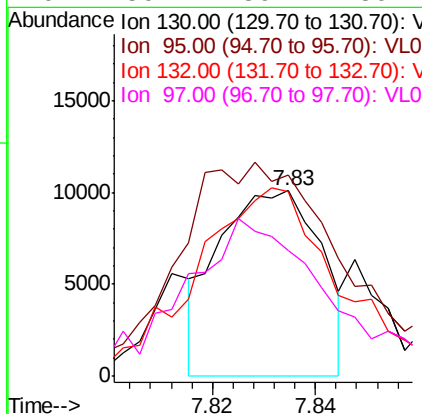
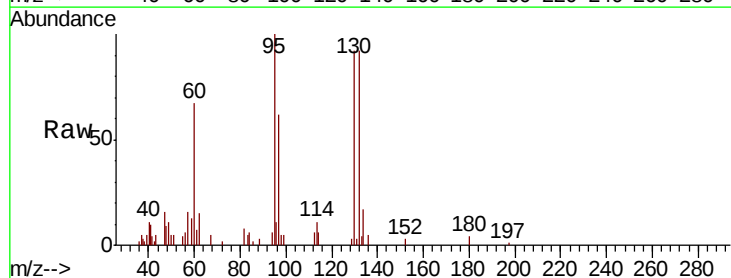
#36
Benzene
Concen: 0.084 ppbv
RT: 6.89
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Jun 2022 1:10

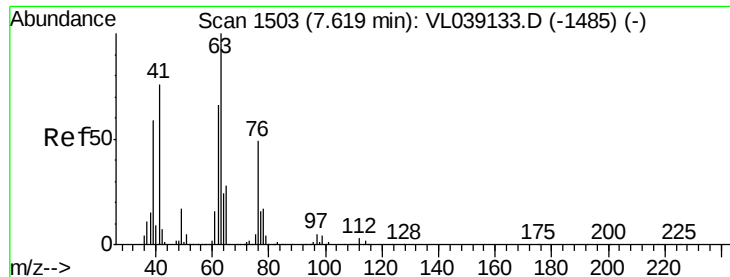
Tot Ion	78	Resp	20363
Ion Ratio	Lower	Upper	
78	100		
77	30.9	18.6	27.8#
50	10.4	15.8	23.8#



#38
Trichloroethene
Concen: 0.125 ppbv
RT: 7.83 min Scan# 1570
Delta R.T. -0.01 min
Lab File: VL039356.D
Acq: 25 Jun 2022 1:10

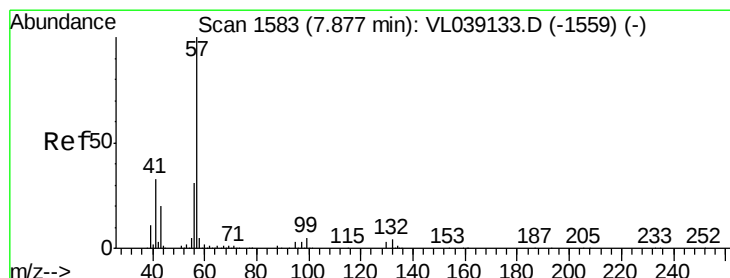
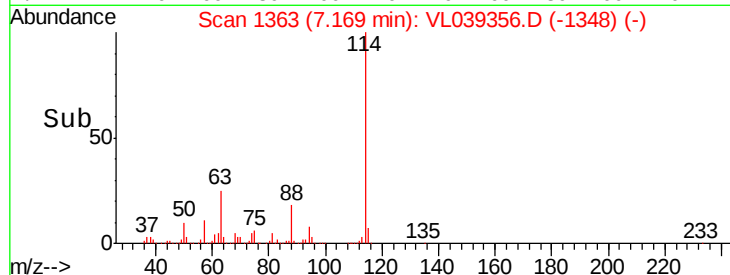
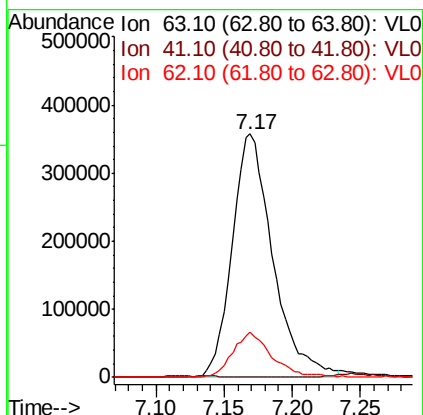
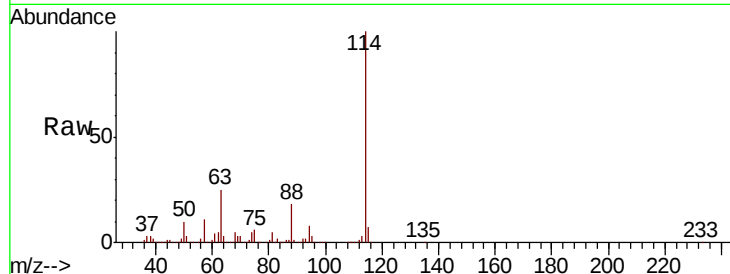
Tgt Ion	130	Resp	13858
Ion Ratio	Lower	Upper	
130	100		
95	83.1	93.3	139.9#
132	107.3	79.0	118.4
97	59.4	59.4	89.2





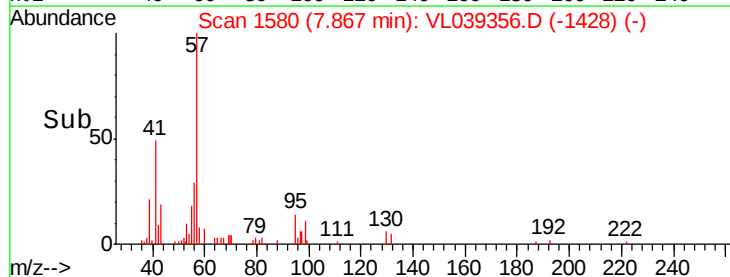
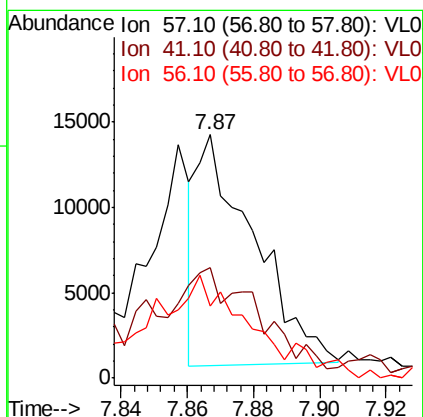
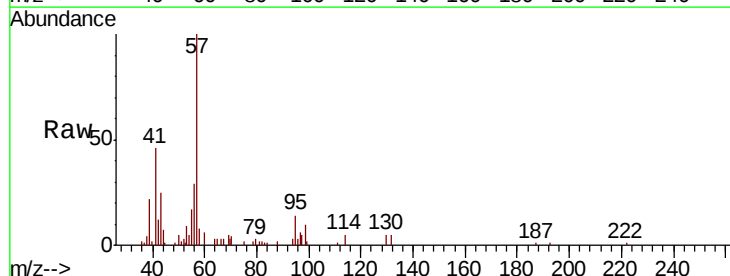
#39
 1,2-Dichloropropane
 Concen: 7.729 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Jun 2022 1:10

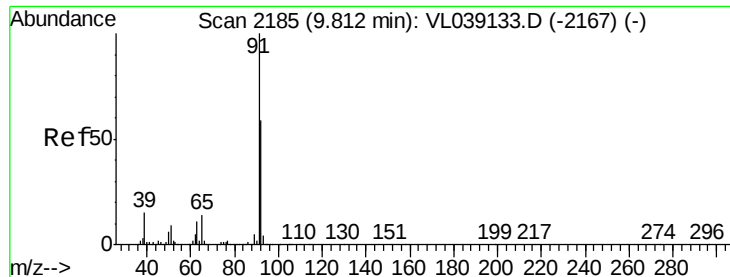
Tot Ion	63	Resp	741302
Ion Ratio	100	Lower	Upper
41	0.0	60.8	91.2#
62	18.2	52.9	79.3#



#44
 2,2,4-Trimethylpentane
 Concen: 0.038 ppbv
 RT: 7.87 min Scan# 1580
 Delta R.T. -0.01 min
 Lab File: VL039356.D
 Acq: 25 Jun 2022 1:10

Tgt Ion	57	Resp	16064
Ion Ratio	100	Lower	Upper
41	111.8	26.2	39.4#
56	88.0	24.7	37.1#





#53

Toluene

Concen: 0.368 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

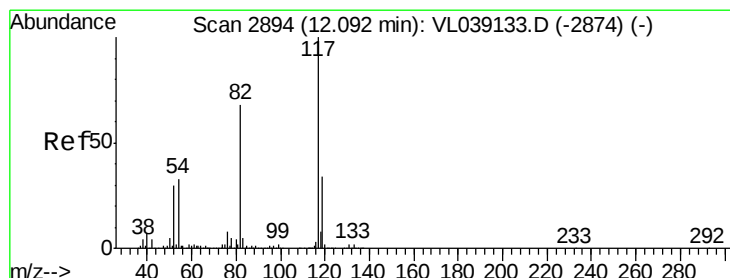
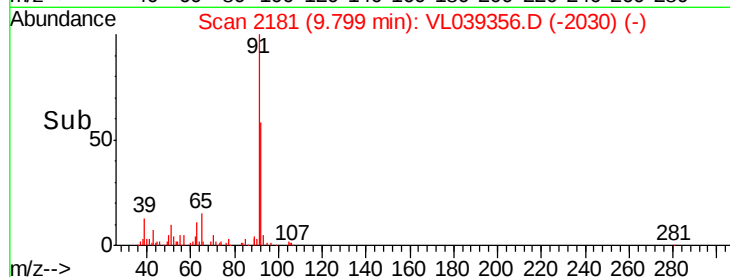
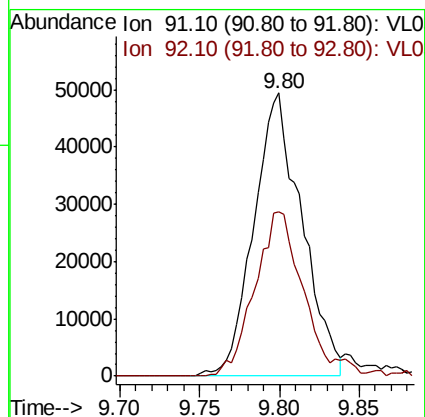
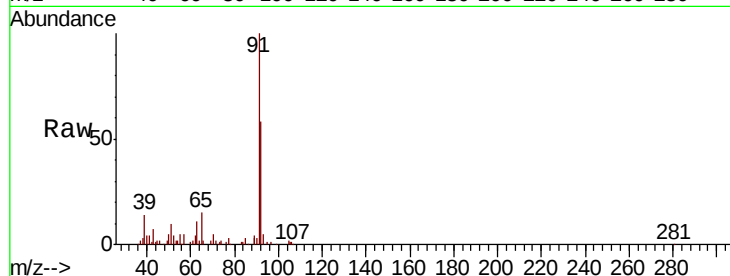
Acq: 25 Jun 2022 1:10

Tot Ion: 91 Resp: 102159

Ion Ratio Lower Upper

91 100

92 60.1 48.1 72.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.01 min

Lab File: VL039356.D

Acq: 25 Jun 2022 1:10

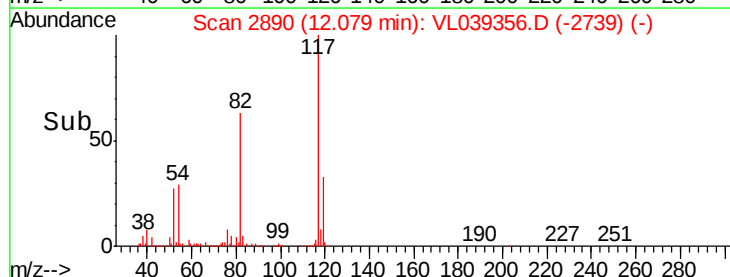
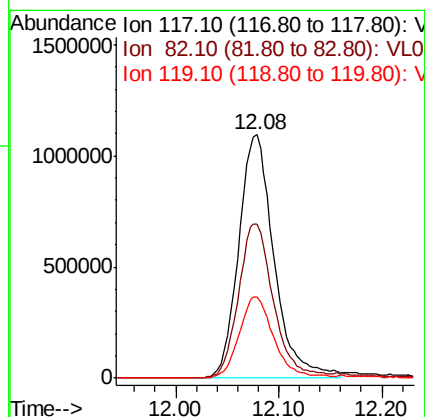
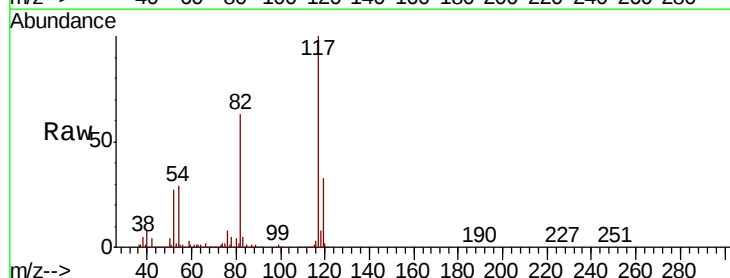
Tgt Ion: 117 Resp: 2615813

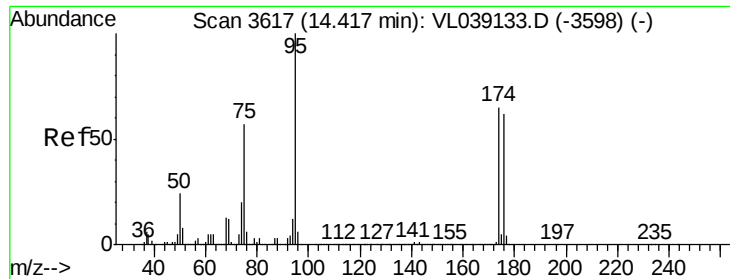
Ion Ratio Lower Upper

117 100

82 65.9 55.1 82.7

119 34.4 24.7 37.1





#68

1-Bromo-4-Fluorobenzene

Concen: 9.101 ppbv

RT: 14.41 Instrument:

Delta R.T MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Jun 2022 1.10

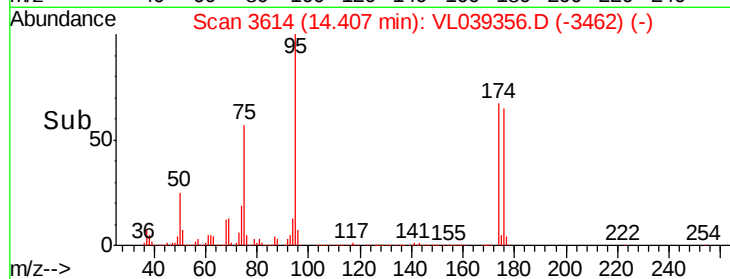
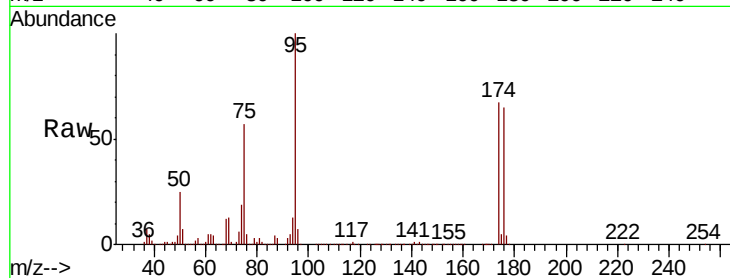
Tot Ion: 95 Resp: 1968108

Ion Ratio Lower Upper

95 100

174 70.5 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

