

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060322\
 Data File : VL039157.D
 Acq On : 3 Jun 2022 17:26
 Operator : SY/AP
 Sample : N3106-04 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4

Quant Time: Jun 04 00:16:07 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	5.68	49	1330661	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3342523	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	3096408	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2587751	10.11	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.10%

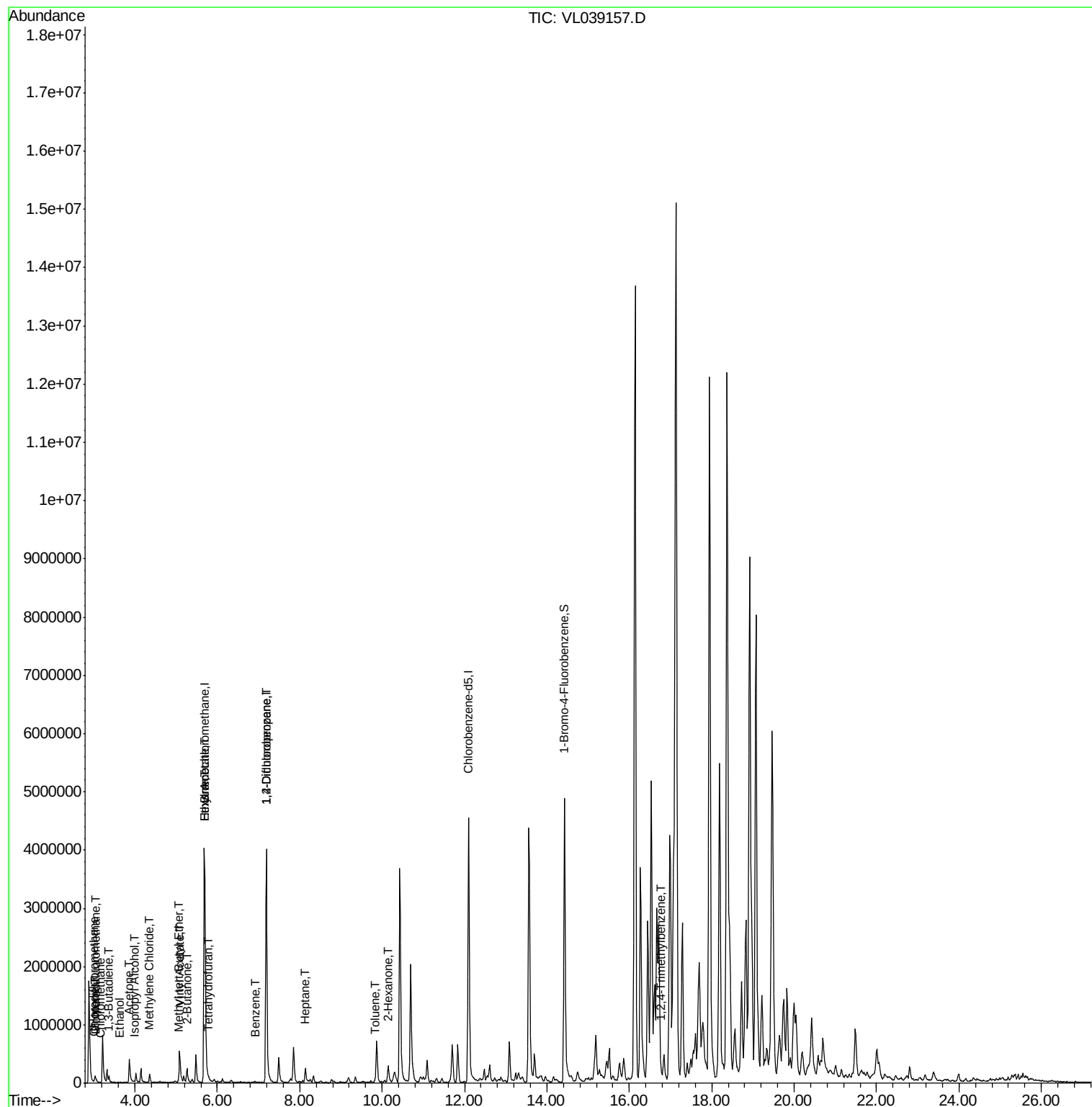
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	17031	0.073	ppbv #	88
3) Chlorodifluoromethane	3.00	51	25488	0.151	ppbv #	78
4) Chloromethane	3.15	50	3628	0.042	ppbv #	83
9) Propene	3.02	41	41836	0.567	ppbv	98
10) Heptane	8.13	43	66820	0.388	ppbv #	45
13) Ethanol	3.63	45	5767	1.432	ppbv #	100
15) Acetone	3.86	43	514576	3.712	ppbv #	83
16) 1,3-Butadiene	3.36	39	8916	0.120	ppbv #	8
19) Isopropyl Alcohol	3.98	45	2980	0.046	ppbv #	93
20) Methylene Chloride	4.36	84	52172	0.893	ppbv	96
23) Vinyl Acetate	5.09	43	901351	7.859	ppbv	99
25) Ethyl Acetate	5.70	43	597765	1.913	ppbv #	80
26) Hexane	5.70	57	844234	6.149	ppbv #	25
28) Methyl tert-Butyl Ether	5.05	73	15063	0.099	ppbv #	1
34) 2-Butanone	5.26	43	296316	1.632	ppbv	92
36) Benzene	6.91	78	8810	0.032	ppbv #	93
39) 1,2-Dichloropropane	7.19	63	853849	7.911	ppbv #	25
41) Tetrahydrofuran	5.79	42	5087	0.047	ppbv #	74
51) 2-Hexanone	10.15	43	252132	1.192	ppbv #	100
53) Toluene	9.82	91	29398	0.094	ppbv	98
74) 1,2,4-Trimethylbenzene	16.77	105	34870	0.084	ppbv #	62

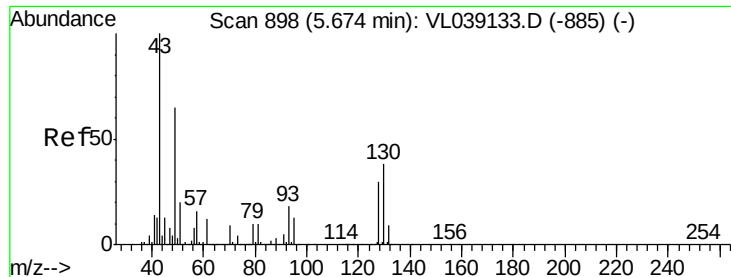
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV4

Acq: 3 Jun 2022 17:20

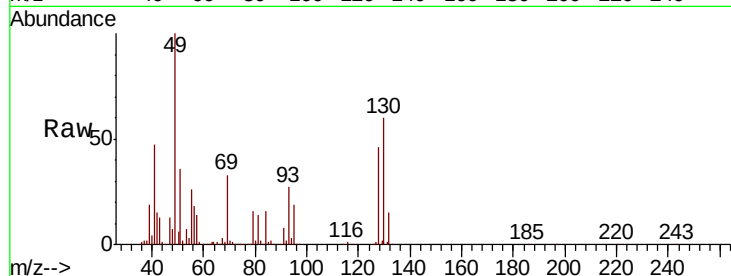
Tot Ion: 49 Resp: 1330661

Ion Ratio Lower Upper

49 100

128 49.8 24.7 74.1

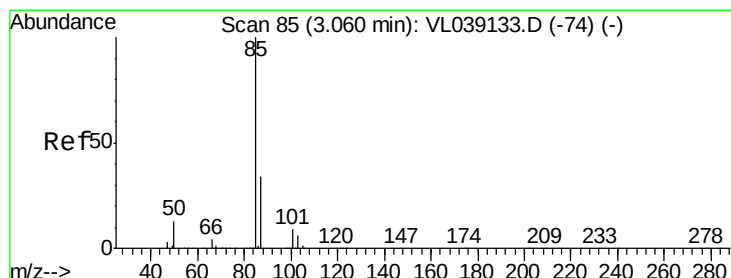
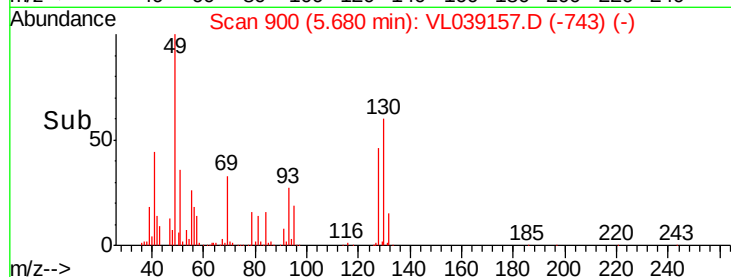
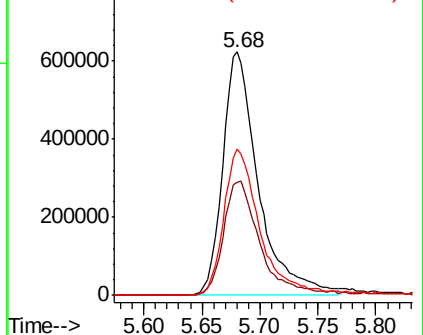
130 63.8 31.4 94.0



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: 0.073 ppbv

RT: 3.06 min Scan# 85

Delta R.T. -0.00 min

Lab File: VL039157.D

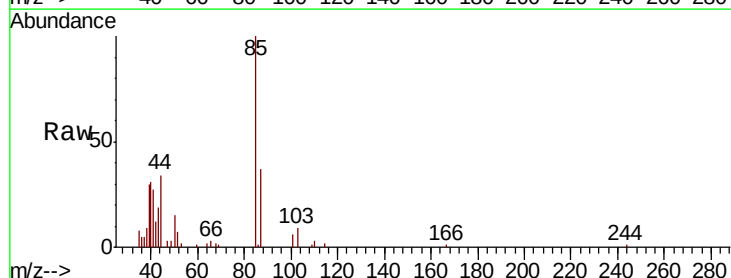
Acq: 3 Jun 2022 17:26

Tgt Ion: 85 Resp: 17031

Ion Ratio Lower Upper

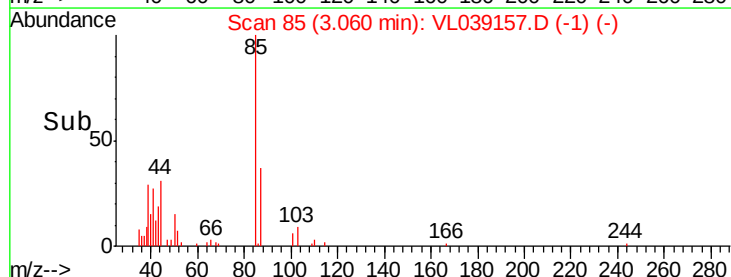
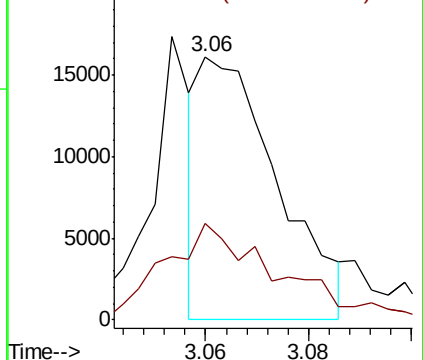
85 100

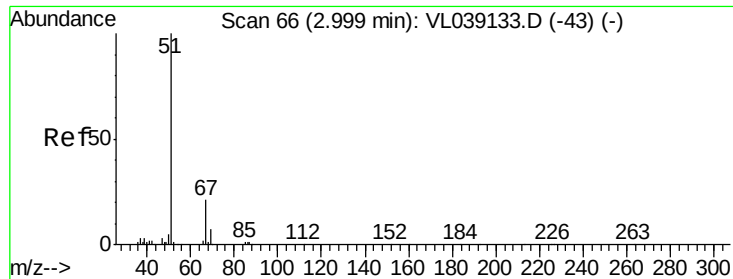
87 40.6 26.9 40.3#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.151 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

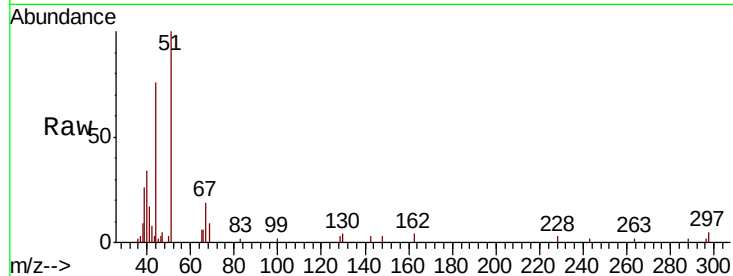
Acq: 3 Jun 2022 17:20 SV4

Tot Ion: 51 Resp: 25488

Ion Ratio Lower Upper

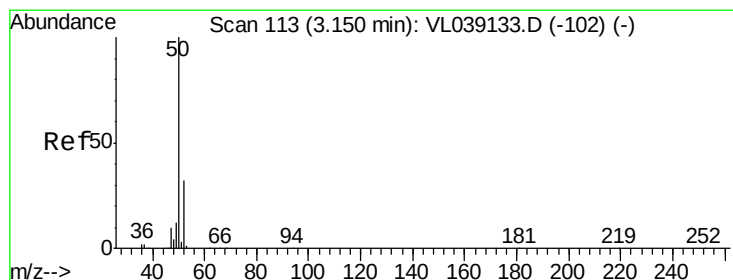
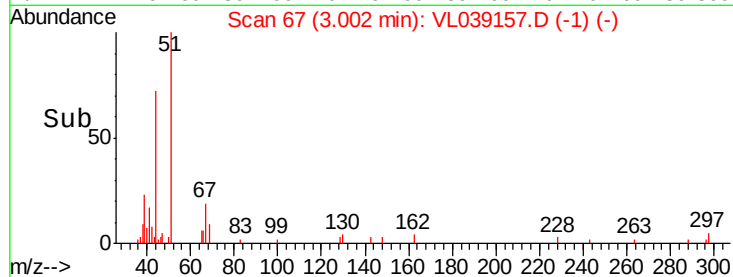
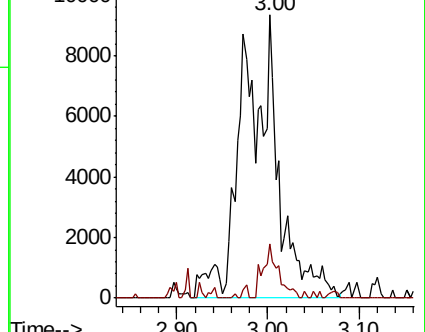
51 100

67 10.0 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: 0.042 ppbv

RT: 3.15 min Scan# 113

Delta R.T. -0.00 min

Lab File: VL039157.D

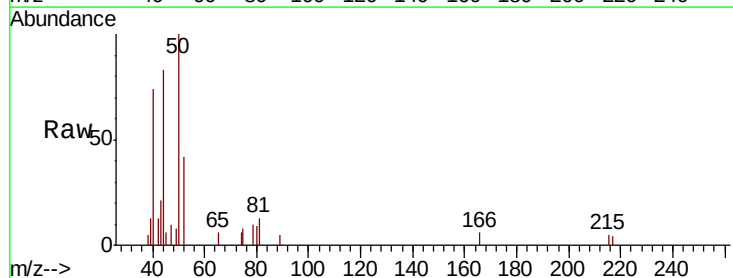
Acq: 3 Jun 2022 17:26

Tgt Ion: 50 Resp: 3628

Ion Ratio Lower Upper

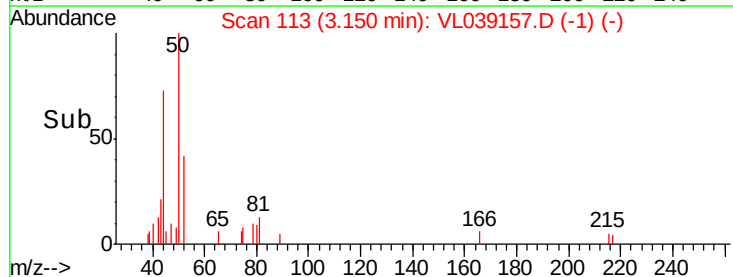
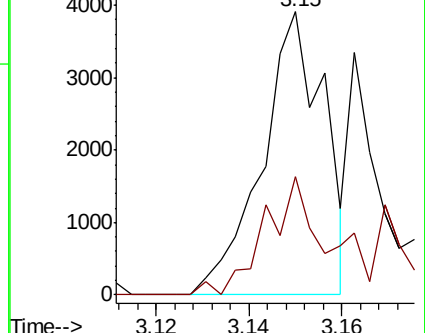
50 100

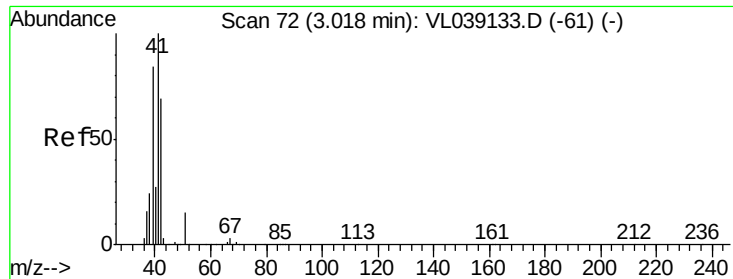
52 41.7 25.9 38.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.567 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

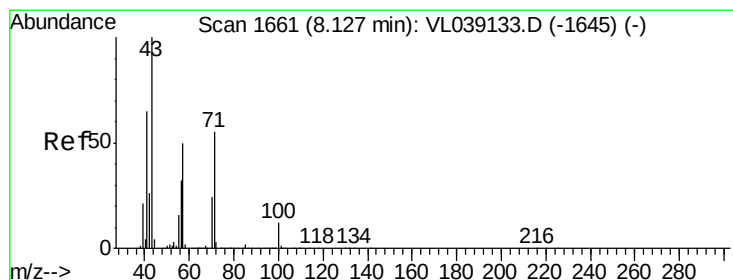
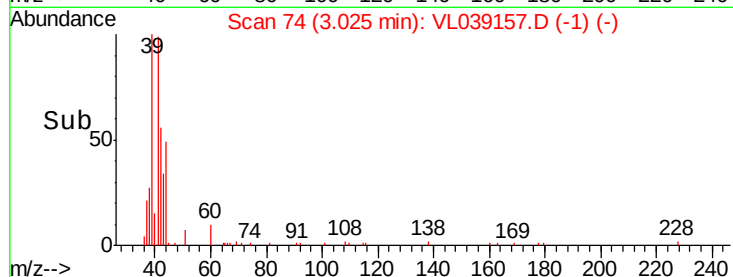
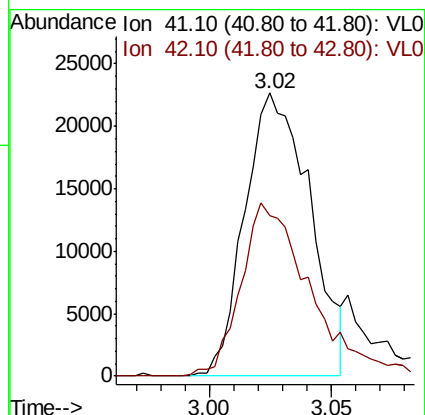
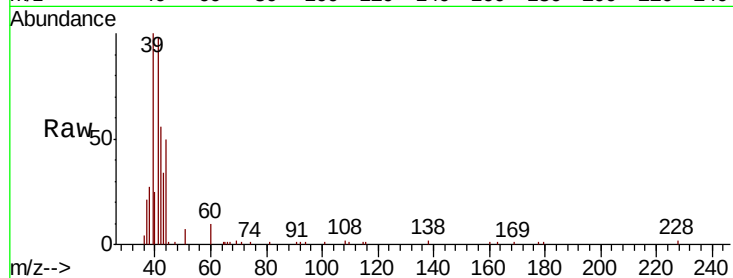
Acq: 3 Jun 2022 17:26 SV4

Tot Ion: 41 Resp: 41836

Ion Ratio Lower Upper

41 100

42 67.3 55.4 83.2



#10

Heptane

Concen: 0.388 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. 0.01 min

Lab File: VL039157.D

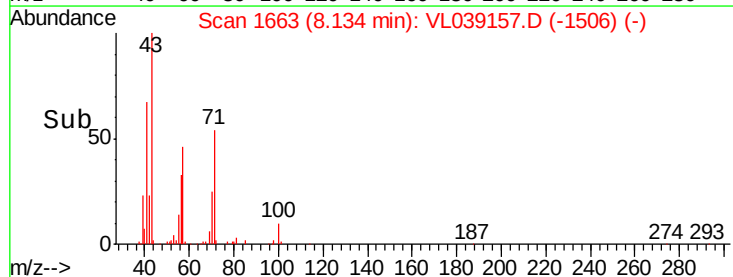
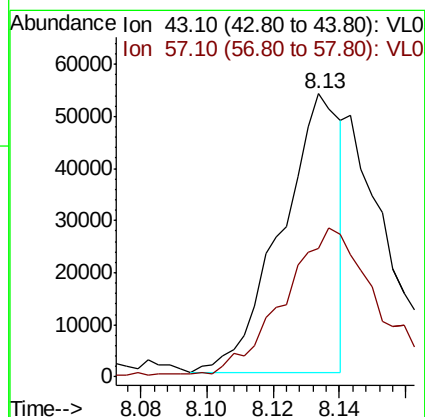
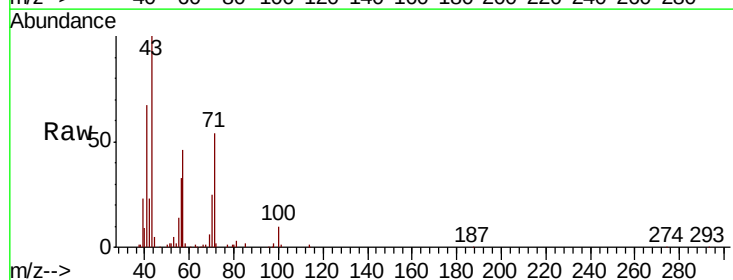
Acq: 3 Jun 2022 17:26

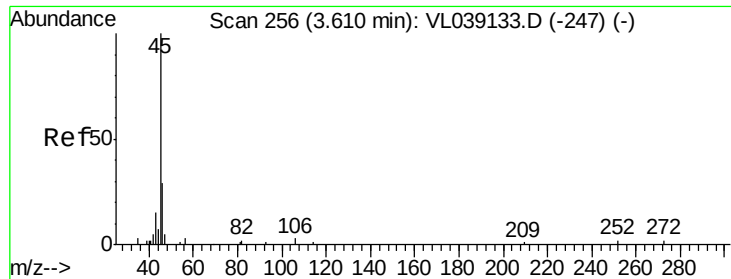
Tgt Ion: 43 Resp: 66820

Ion Ratio Lower Upper

43 100

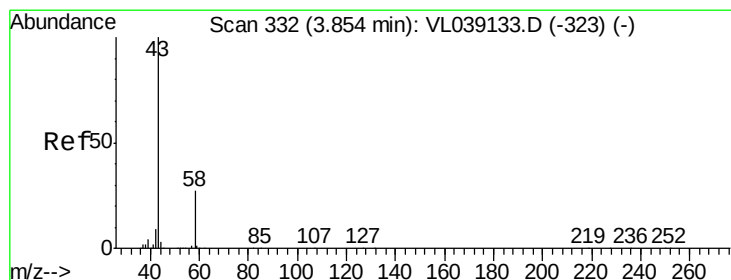
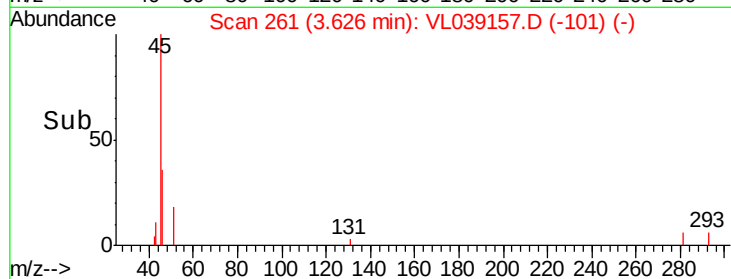
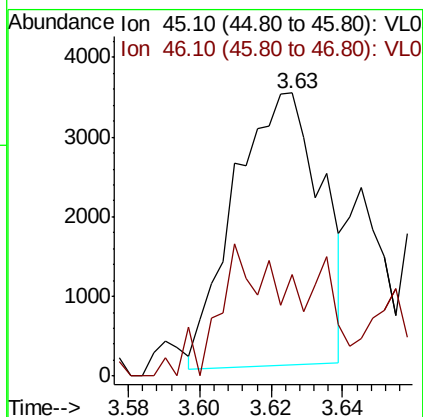
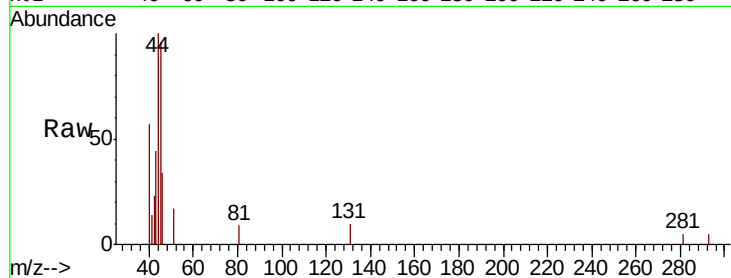
57 90.4 41.4 62.2#





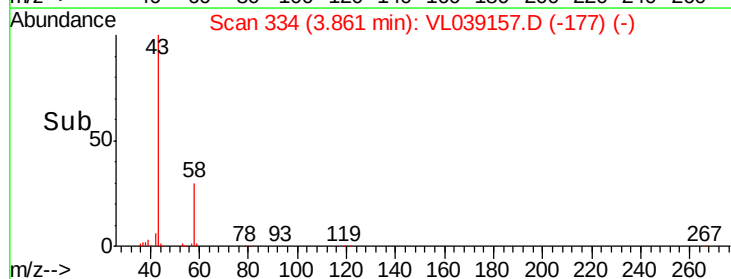
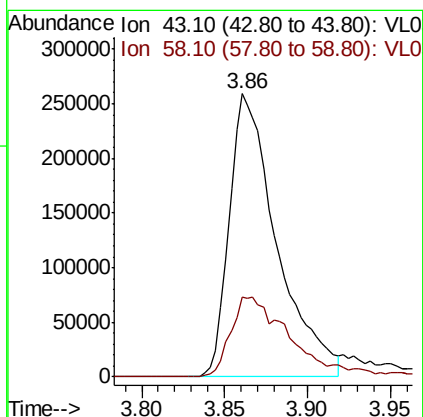
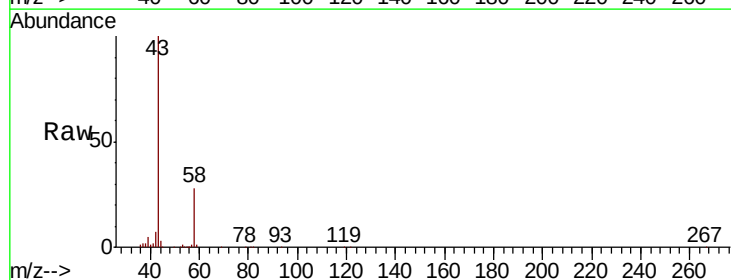
#13
Ethanol
Concen: 1.432 ppbv
RT: 3.63
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV4
Acq: 3 Jun 2022 17:26

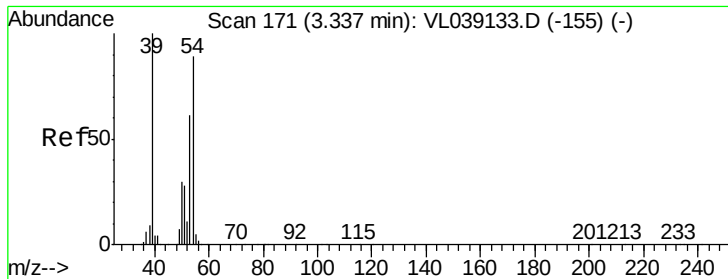
Tot Ion: 45 Resp: 5767
Ion Ratio Lower Upper
45 100
46 68.0 0.0 0.0#



#15
Acetone
Concen: 3.712 ppbv
RT: 3.86 min Scan# 334
Delta R.T. 0.01 min
Lab File: VL039157.D
Acq: 3 Jun 2022 17:26

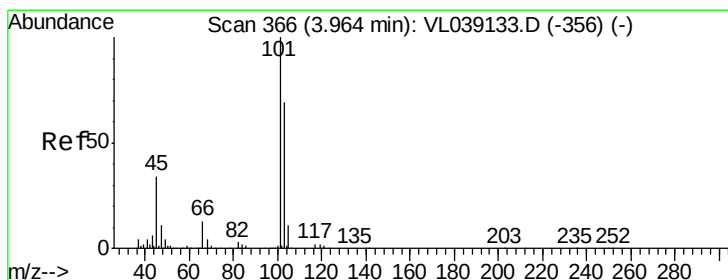
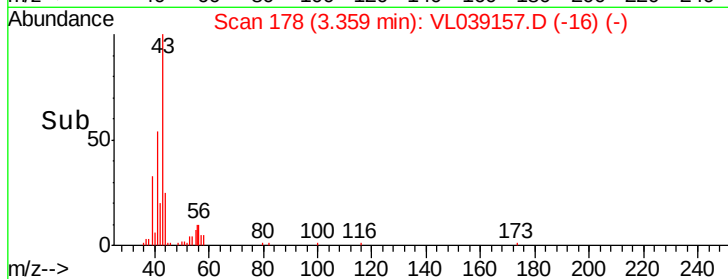
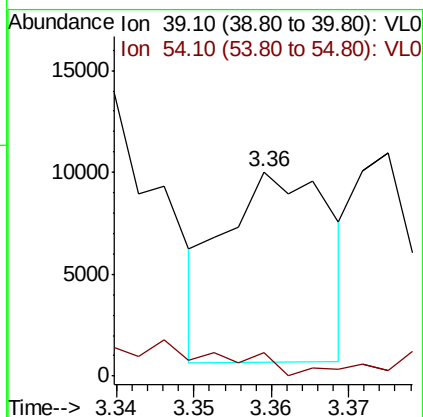
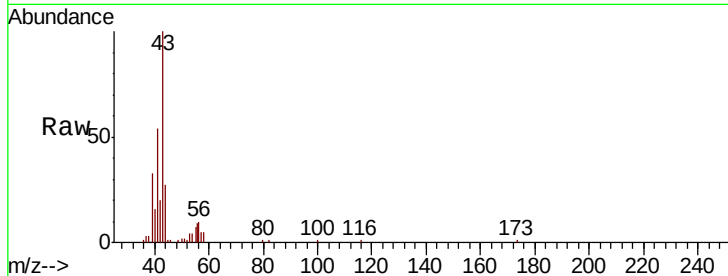
Tgt Ion: 43 Resp: 514576
Ion Ratio Lower Upper
43 100
58 37.3 22.5 33.7#





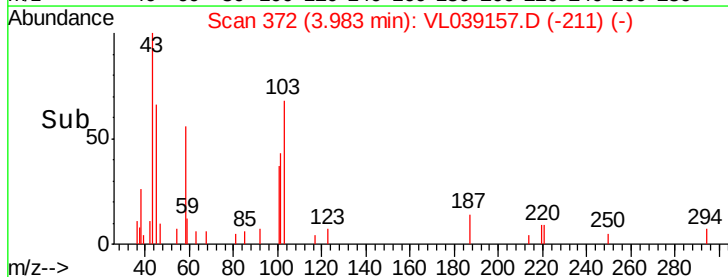
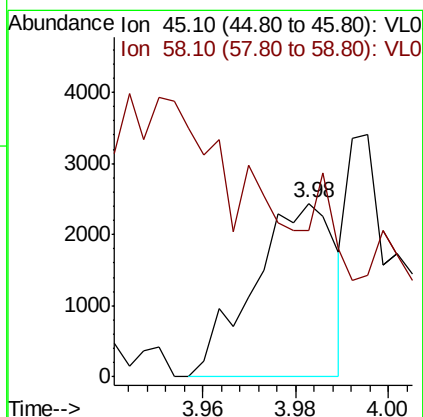
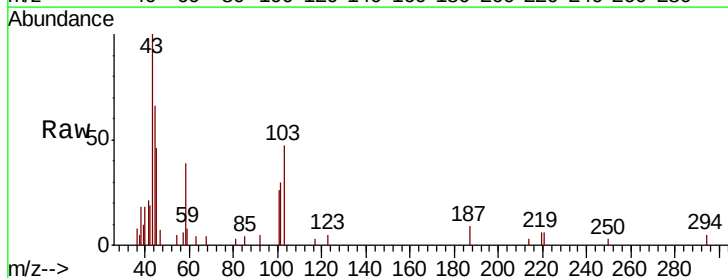
#16
 1,3-Butadiene
 Concen: 0.120 ppbv
 RT: 3.36
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV4
 Acq: 3 Jun 2022 17:20

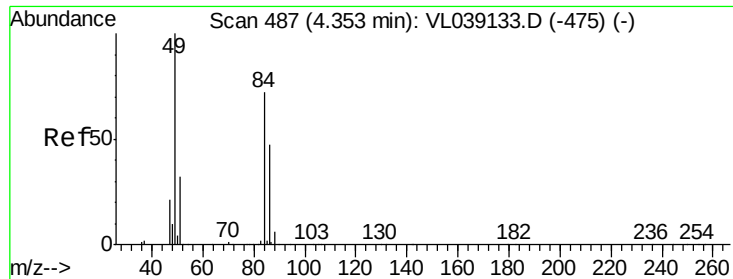
Tot Ion: 39 Resp: 8916
 Ion Ratio Lower Upper
 39 100
 54 0.0 65.8 98.6#



#19
 Isopropyl Alcohol
 Concen: 0.046 ppbv
 RT: 3.98 min Scan# 372
 Delta R.T. 0.02 min
 Lab File: VL039157.D
 Acq: 3 Jun 2022 17:26

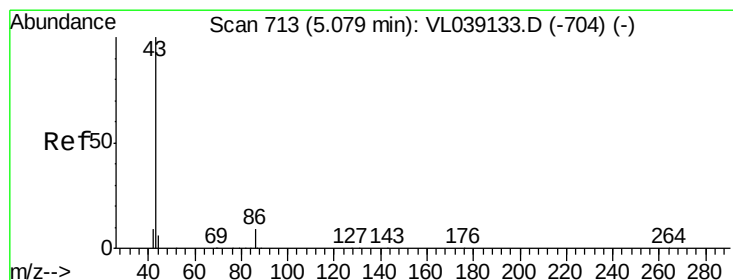
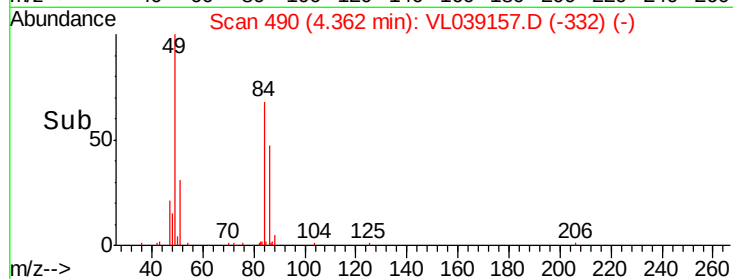
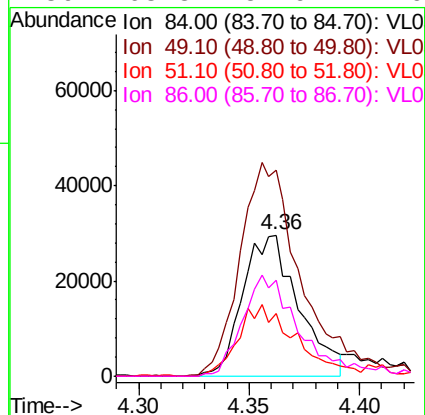
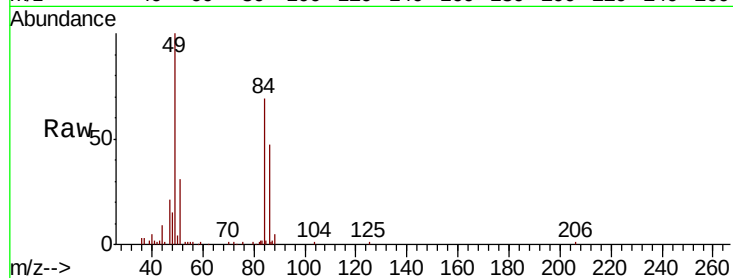
Tgt Ion: 45 Resp: 2980
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.8 2.8#





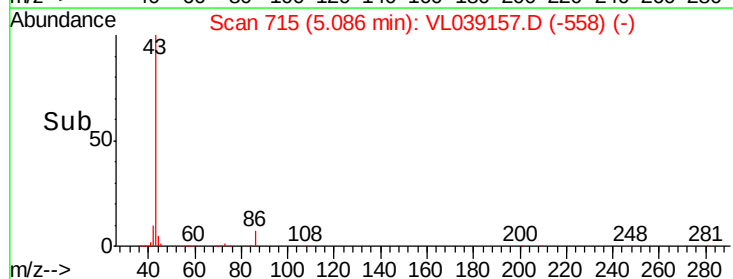
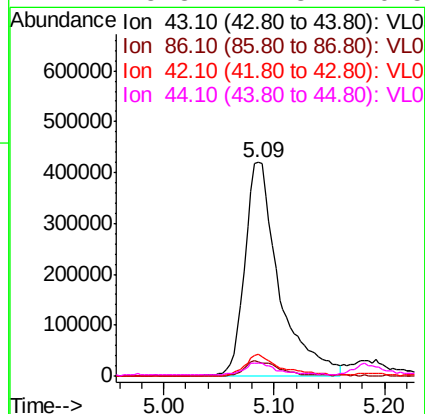
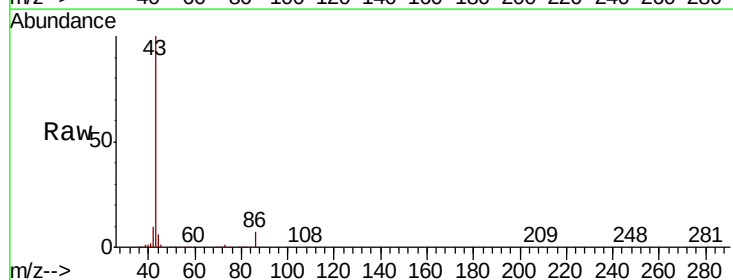
#20
Methvlene Chloride
Concen: 0.893 ppbv
RT: 4.36
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV4
Acq: 3 Jun 2022 17:20

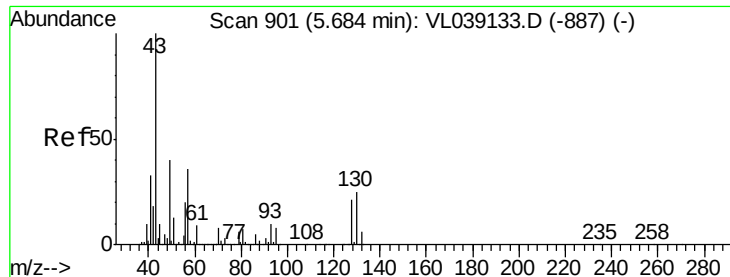
Tot Ion:	84	Resp:	52172
Ion	Ratio	Lower	Upper
84	100		
49	144.5	111.1	166.7
51	44.4	35.3	52.9
86	68.3	51.9	77.9



#23
Vinyl Acetate
Concen: 7.859 ppbv
RT: 5.09 min Scan# 715
Delta R.T. 0.01 min
Lab File: VL039157.D
Acq: 3 Jun 2022 17:26

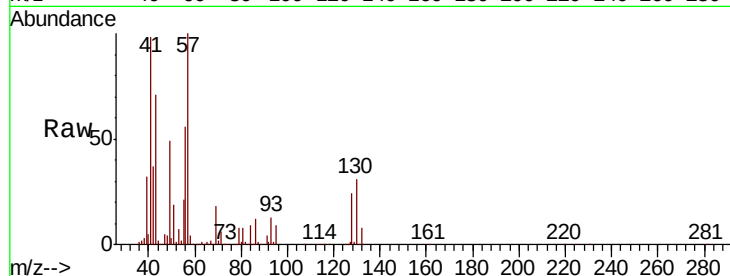
Tgt Ion:	43	Resp:	901351
Ion	Ratio	Lower	Upper
43	100		
86	6.8	6.0	9.0
42	10.1	8.2	12.4
44	5.3	4.3	6.5



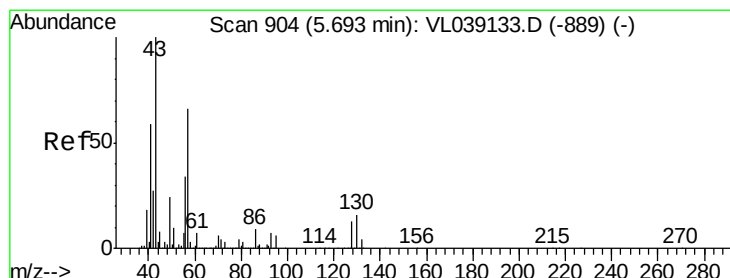
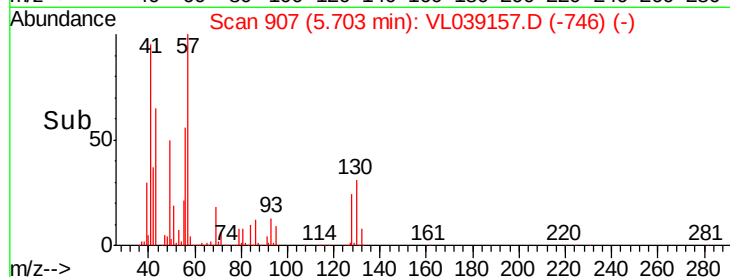
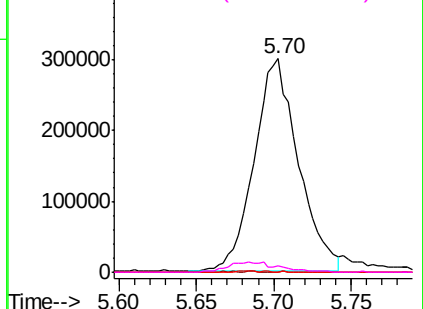


#25
Ethyl Acetate
Concen: 1.913 ppbv
RT: 5.70 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV4
Acq: 3 Jun 2022 17:20

Tot Ion:	43	Resp:	597765
Ion	Ratio	Lower	Upper
43	100		
45	0.5	8.2	12.2#
61	0.6	8.4	12.6#
70	5.8	5.6	8.4

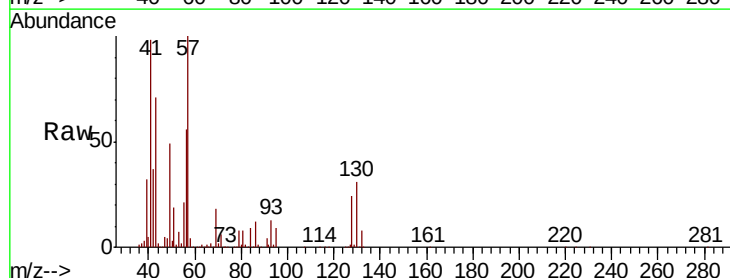


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

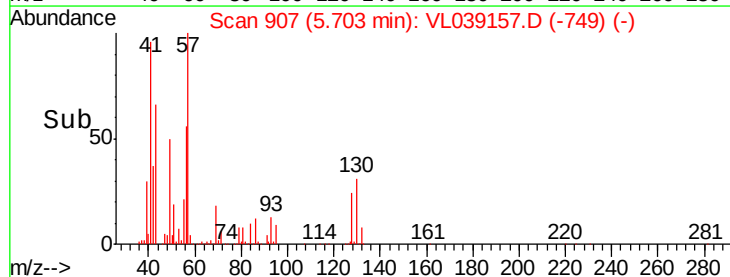
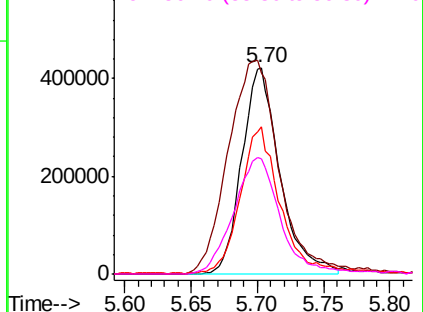


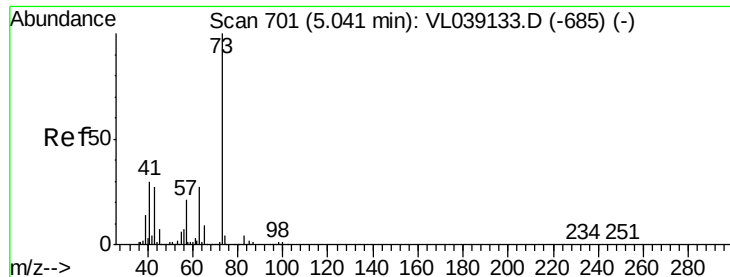
#26
Hexane
Concen: 6.149 ppbv
RT: 5.70 min Scan# 907
Delta R.T.: 0.01 min
Lab File: VL039157.D
Acq: 3 Jun 2022 17:26

Tgt Ion:	57	Resp:	844234
Ion	Ratio	Lower	Upper
57	100		
41	140.9	72.4	108.6#
43	75.0	187.0	280.6#
56	70.4	41.8	62.6#



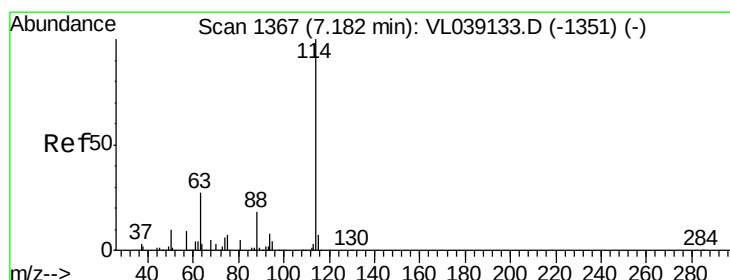
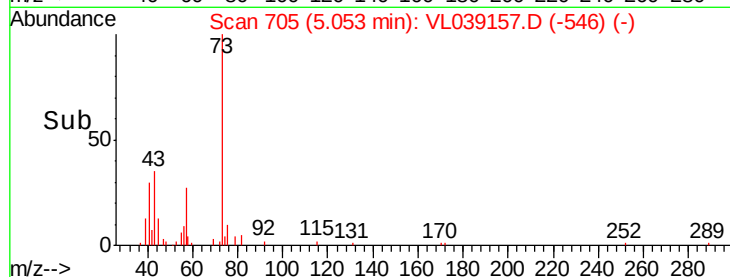
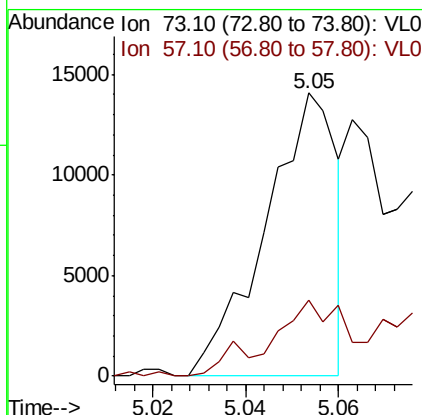
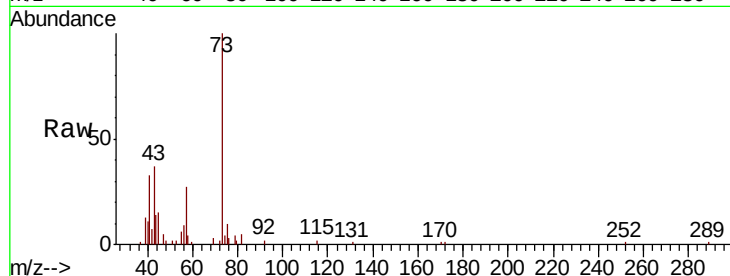
Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





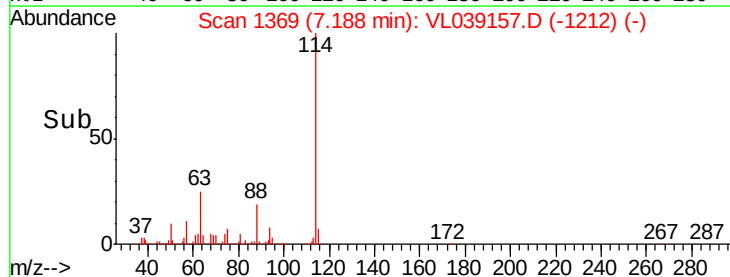
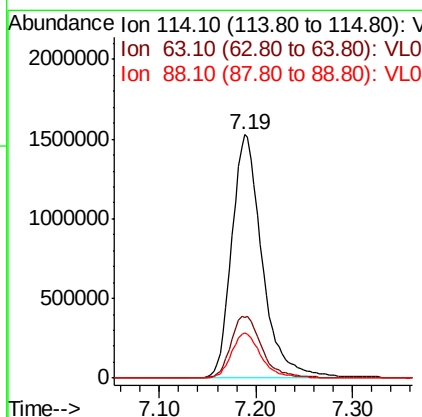
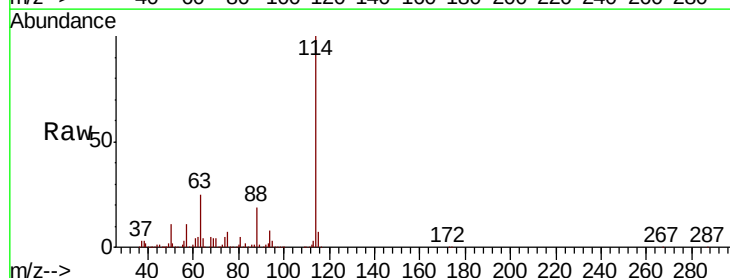
#28
Methyl tert-Butyl Ether
Concen: 0.099 ppbv
RT: 5.05
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SV4
Acq: 3 Jun 2022 17:20

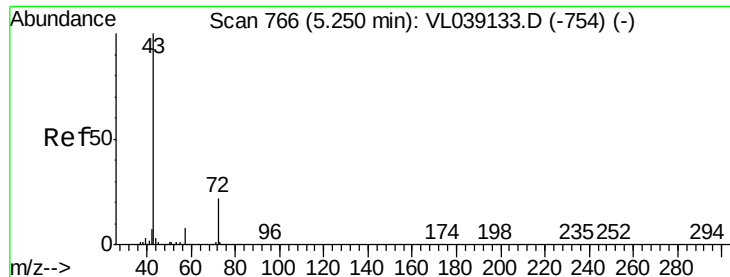
Tot Ion: 73 Resp: 15063
Ion Ratio Lower Upper
73 100
57 73.2 18.6 27.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. 0.01 min
Lab File: VL039157.D
Acq: 3 Jun 2022 17:26

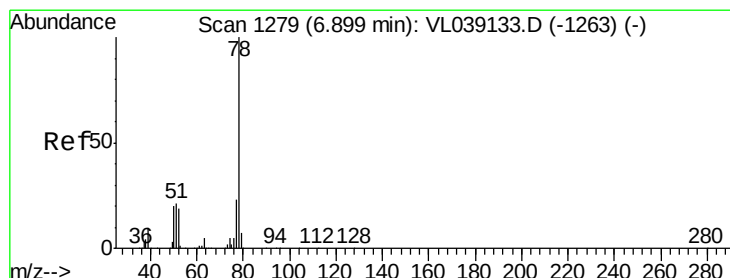
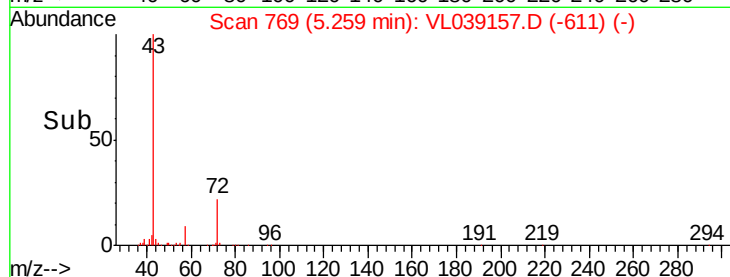
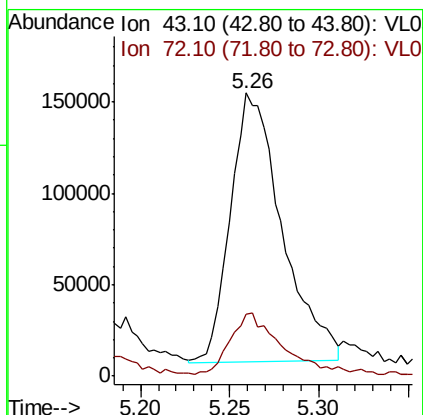
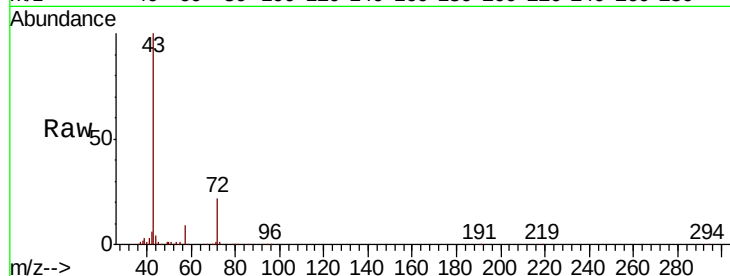
Tgt Ion: 114 Resp: 3342523
Ion Ratio Lower Upper
114 100
63 26.3 21.7 32.5
88 18.5 14.8 22.2





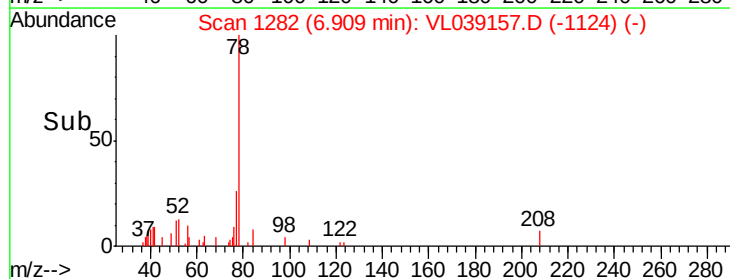
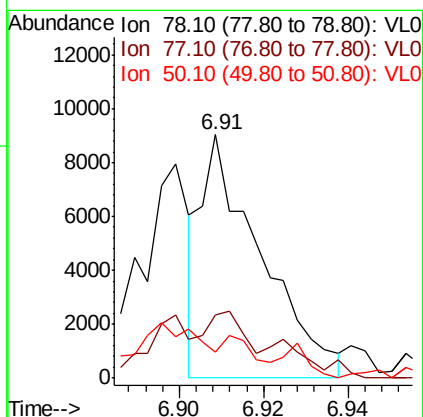
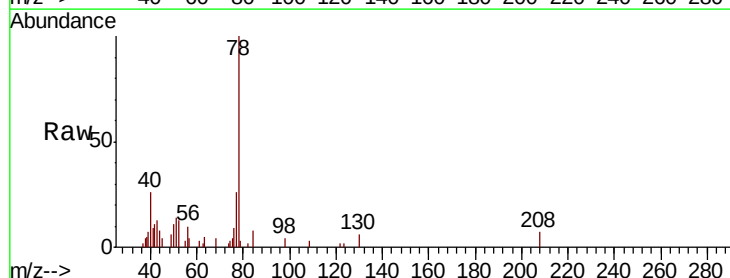
#34
2-Butanone
Concen: 1.632 ppbv
RT: 5.26
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV4
Acq: 3 Jun 2022 17:20

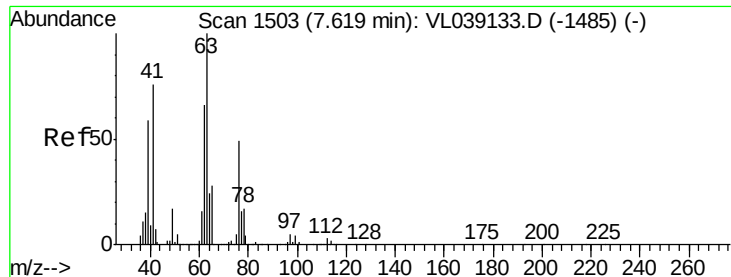
Tot Ion: 43 Resp: 296316
Ion Ratio Lower Upper
43 100
72 26.4 18.2 27.2



#36
Benzene
Concen: 0.032 ppbv
RT: 6.91 min Scan# 1282
Delta R.T. 0.01 min
Lab File: VL039157.D
Acq: 3 Jun 2022 17:26

Tgt Ion: 78 Resp: 8810
Ion Ratio Lower Upper
78 100
77 22.8 18.6 27.8
50 12.9 15.8 23.8#





#39

1,2-Dichloropropane

Concen: 7.911 ppbv

RT: 7.19 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 3 Jun 2022 17:20 SV4

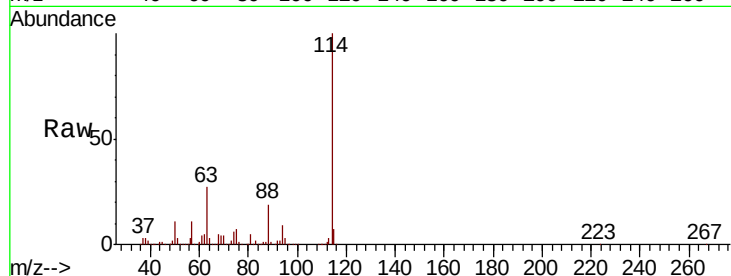
Tot Ion: 63 Resp: 853849

Ion Ratio Lower Upper

63 100

41 0.2 60.8 91.2#

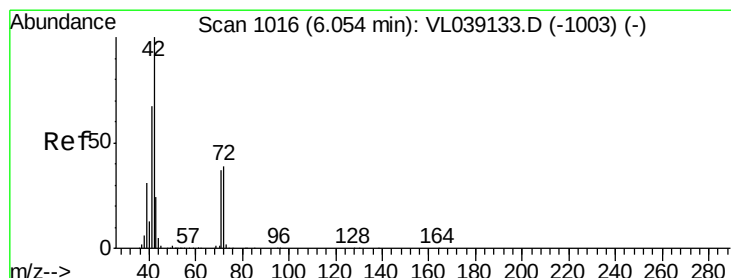
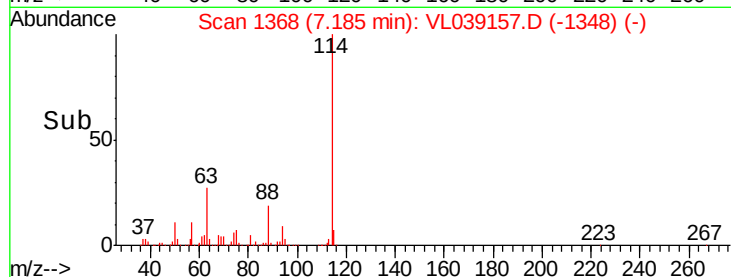
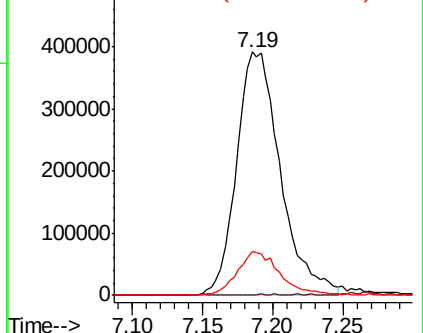
62 17.9 52.9 79.3#



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



#41

Tetrahydrofuran

Concen: 0.047 ppbv

RT: 5.79 min Scan# 933

Delta R.T. -0.27 min

Lab File: VL039157.D

Acq: 3 Jun 2022 17:26

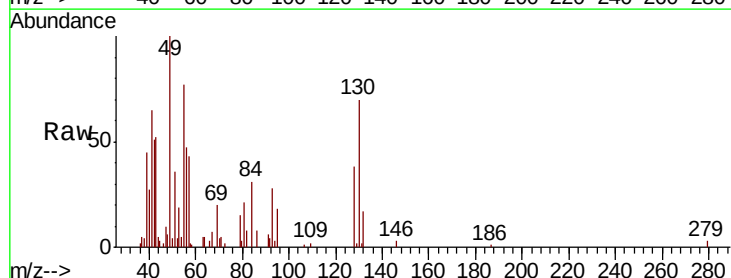
Tgt Ion: 42 Resp: 5087

Ion Ratio Lower Upper

42 100

72 10.5 32.0 48.0#

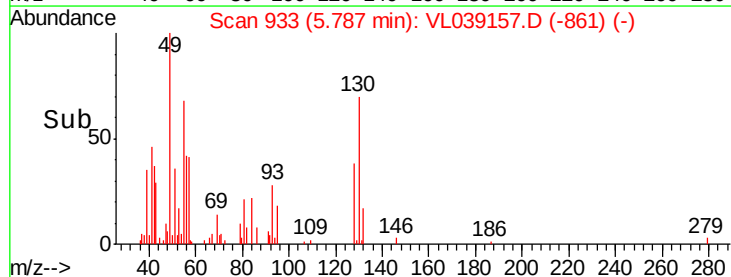
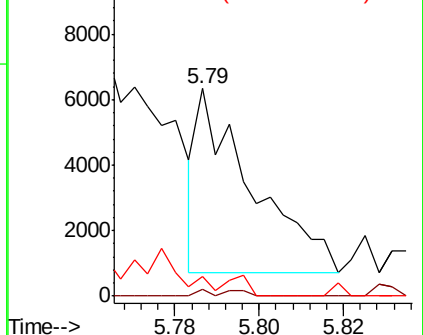
71 41.5 31.1 46.7

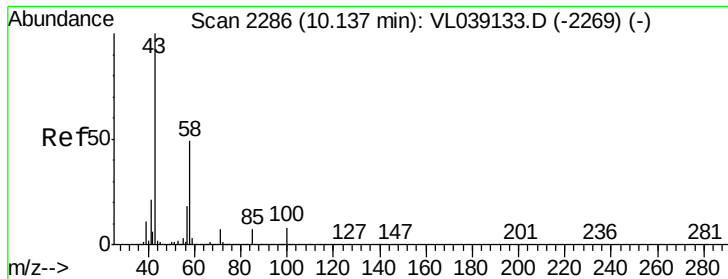


Abundance Ion 42.10 (41.80 to 42.80): VL0

Ion 72.10 (71.80 to 72.80): VL0

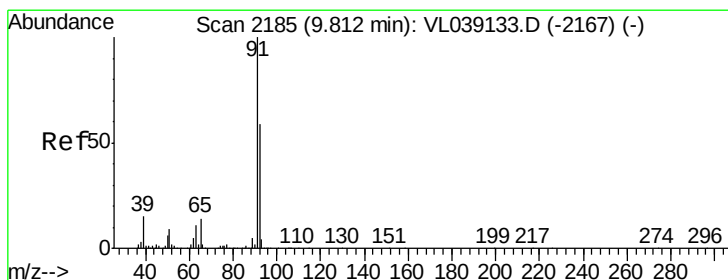
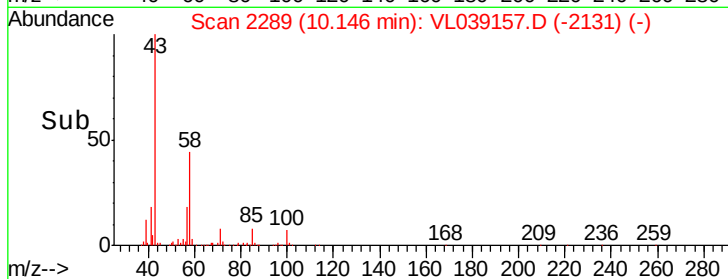
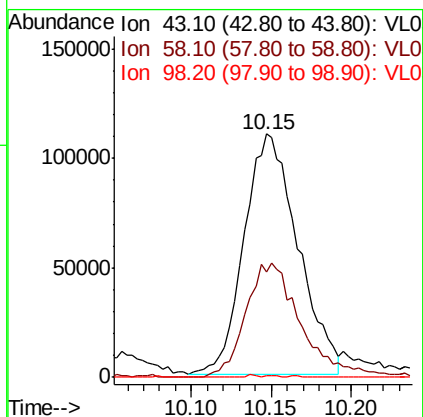
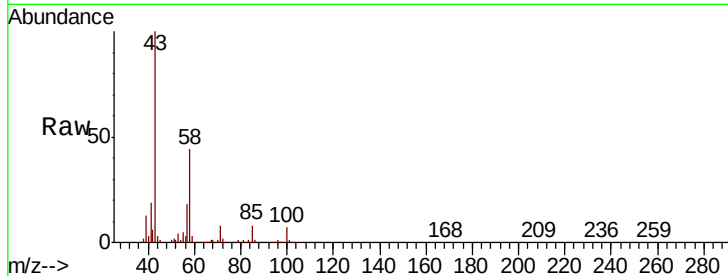
Ion 71.10 (70.80 to 71.80): VL0





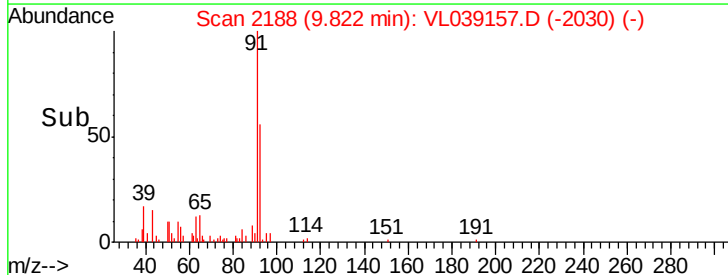
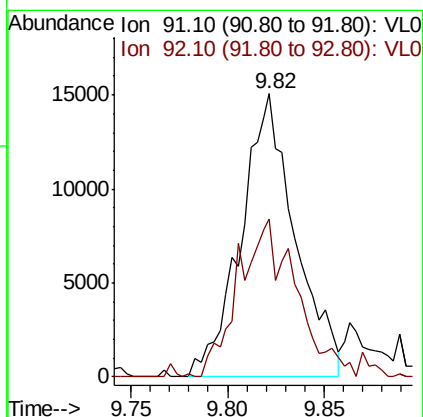
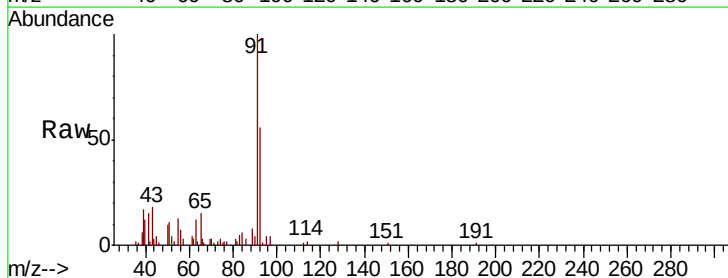
#51
2-Hexanone
Concen: 1.192 ppbv
RT: 10.15
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SV4
Acq: 3 Jun 2022 17:20

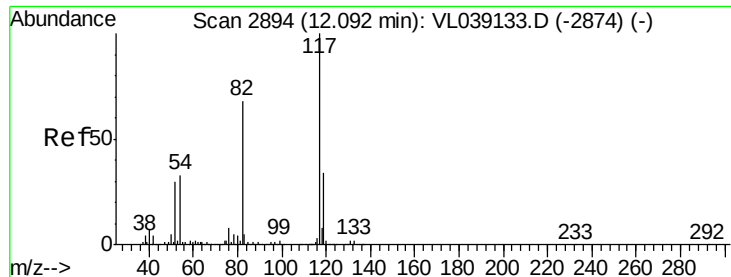
Tot Ion	Ratio	Lower	Upper
43	100		
58	50.2	40.0	60.0
98	0.6	0.1	0.1#



#53
Toluene
Concen: 0.094 ppbv
RT: 9.82 min Scan# 2188
Delta R.T. 0.01 min
Lab File: VL039157.D
Acq: 3 Jun 2022 17:26

Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.8	48.1	72.1

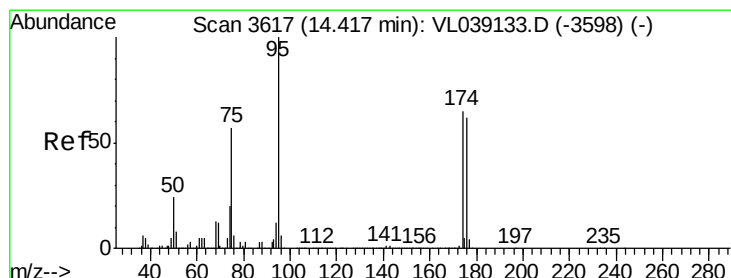
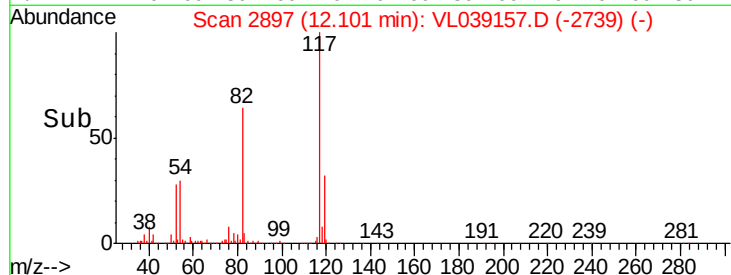
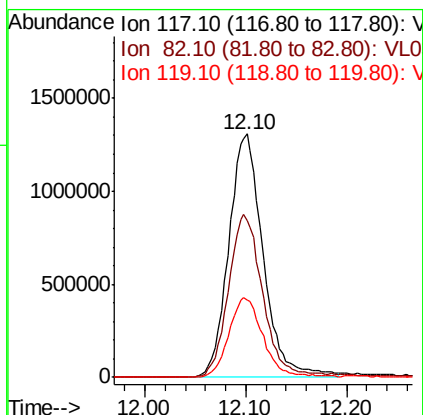
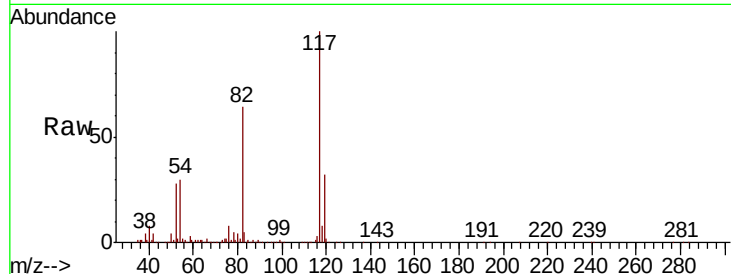




#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.10 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV4
 Acq: 3 Jun 2022 17:20

Tot Ion: 117 Resp: 3096408

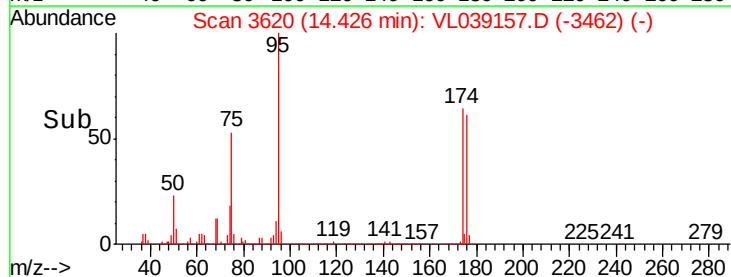
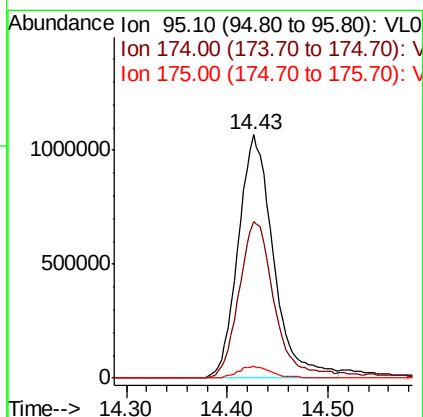
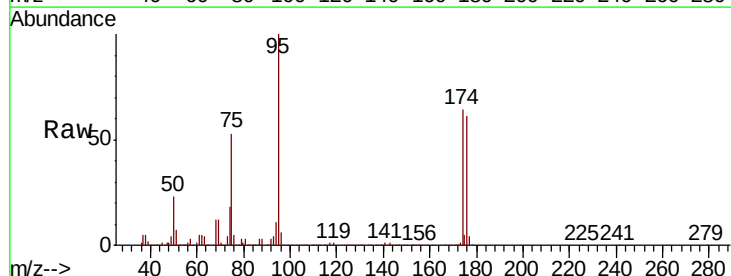
Ion	Ratio	Lower	Upper
117	100		
82	69.3	55.1	82.7
119	32.8	24.7	37.1

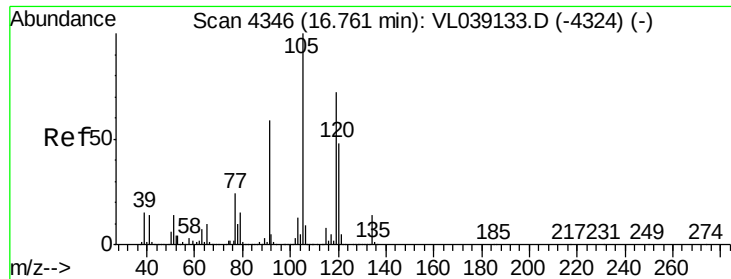


#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.109 ppbv
 RT: 14.43 min Scan# 3620
 Delta R.T. 0.01 min
 Lab File: VL039157.D
 Acq: 3 Jun 2022 17:26

Tgt Ion: 95 Resp: 2587751

Ion	Ratio	Lower	Upper
95	100		
174	67.8	53.8	80.8
175	4.7	4.1	6.1





#74
 1,2,4-Trimethylbenzene
 Concen: 0.084 ppbv
 RT: 16.77
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 SV4
 Acq: 3 Jun 2022 17:28

Tot Ion:	105	Resp:	34870
Ion	Ratio	Lower	Upper
105	100		
120	44.4	38.1	57.1
91	9.8	47.4	71.0#
77	7.6	19.5	29.3#

