

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060822\
 Data File : VL039239.D
 Acq On : 8 Jun 2022 17:42
 Operator : SY/AP
 Sample : N3187-03
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-2

Quant Time: Jun 09 06:40:01 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

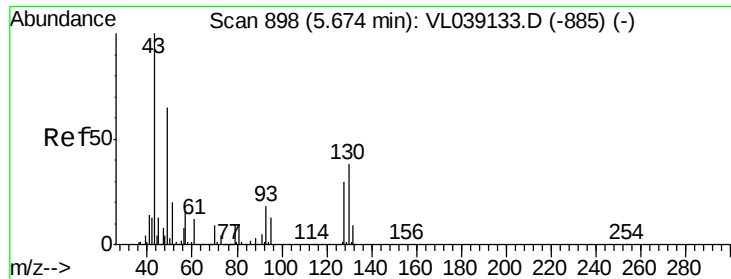
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1224733	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2826548	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2346112	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1946857	10.04	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.40%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	65165	0.303 ppbv	93
3) Chlorodifluoromethane	3.00	51	71103	0.456 ppbv	96
4) Chloromethane	3.15	50	41059	0.513 ppbv	91
9) Propene	3.03	41	42234	0.622 ppbv #	80
11) Trichlorofluoromethane	3.96	101	49603	0.255 ppbv	85
13) Ethanol	3.61	45	273533	73.815 ppbv #	100
15) Acetone	3.85	43	1213676	9.513 ppbv	92
16) 1,3-Butadiene	3.32	39	9658	0.141 ppbv #	30
17) tert-Butyl alcohol	4.32	59	7394	0.075 ppbv #	70
19) Isopropyl Alcohol	3.99	45	17162	0.287 ppbv #	93
20) Methylene Chloride	4.35	84	2257433	41.988 ppbv	97
23) Vinyl Acetate	5.07	43	102253	0.969 ppbv #	34
25) Ethyl Acetate	5.69	43	1531596	5.326 ppbv #	76
26) Hexane	5.69	57	2229167	17.641 ppbv #	39
30) Cyclohexane	7.14	84	6450	0.061 ppbv #	1
34) 2-Butanone	5.25	43	80073	0.521 ppbv	94
36) Benzene	6.90	78	29415	0.128 ppbv #	86
39) 1,2-Dichloropropane	7.18	63	792163	8.679 ppbv #	25
41) Tetrahydrofuran	5.69	42	779318	8.438 ppbv #	50
44) 2,2,4-Trimethylpentane	7.87	57	105082	0.262 ppbv #	80
53) Toluene	9.81	91	141287	0.535 ppbv	99
74) 1,2,4-Trimethylbenzene	16.77	105	14845	0.047 ppbv #	47

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: AA-2

Acq: 8 Jun 2022 17:42

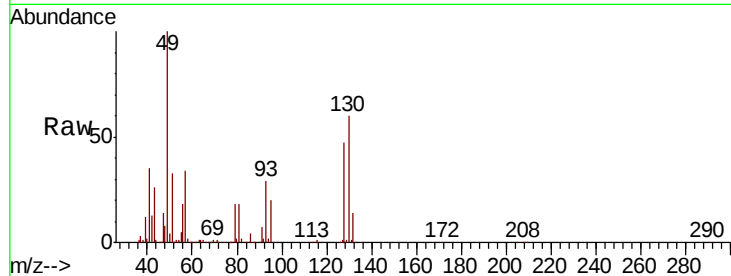
Tot Ion: 49 Resp: 1224733

Ion Ratio Lower Upper

49 100

128 48.6 24.7 74.1

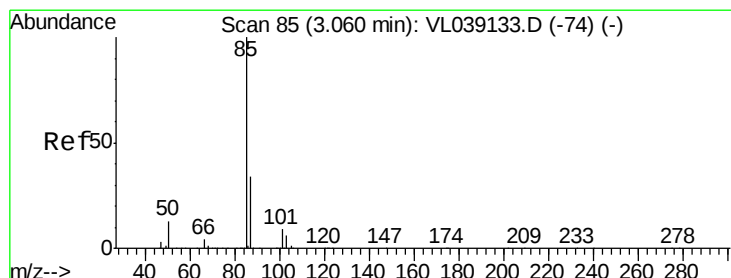
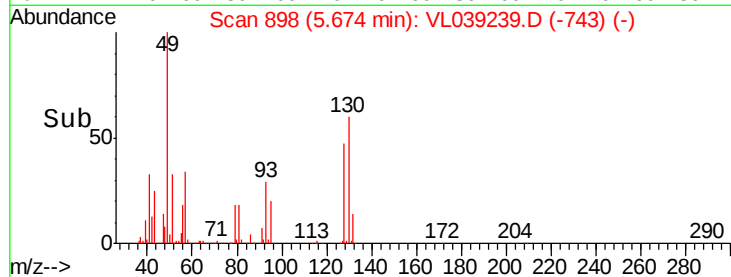
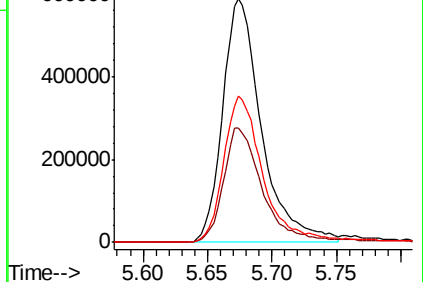
130 62.0 31.4 94.0



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: 0.303 ppbv

RT: 3.06 min Scan# 84

Delta R.T. -0.00 min

Lab File: VL039239.D

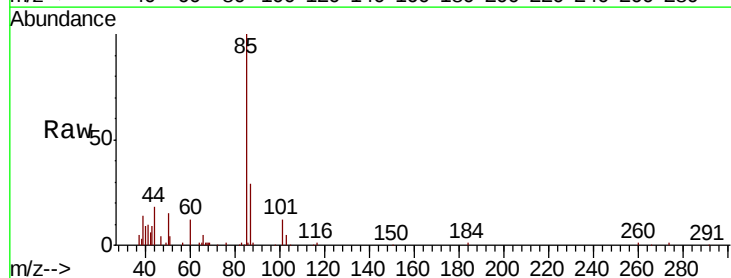
Acq: 8 Jun 2022 17:42

Tgt Ion: 85 Resp: 65165

Ion Ratio Lower Upper

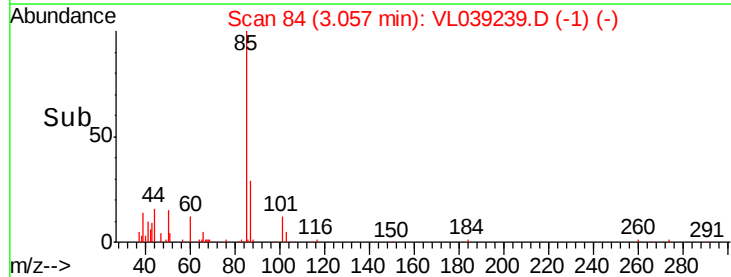
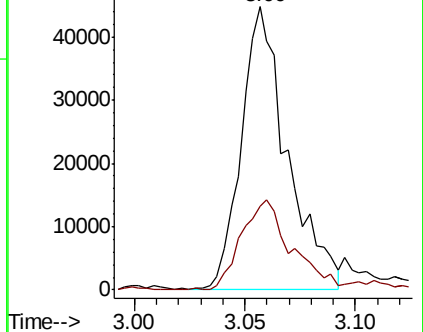
85 100

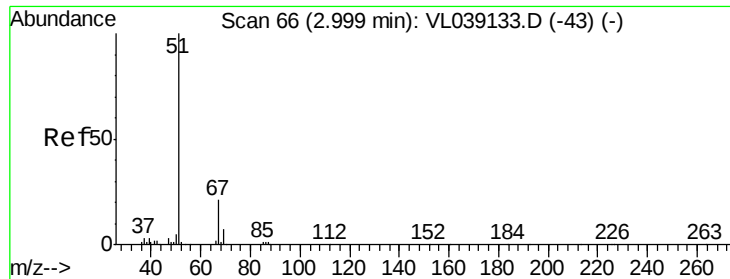
87 29.4 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.456 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

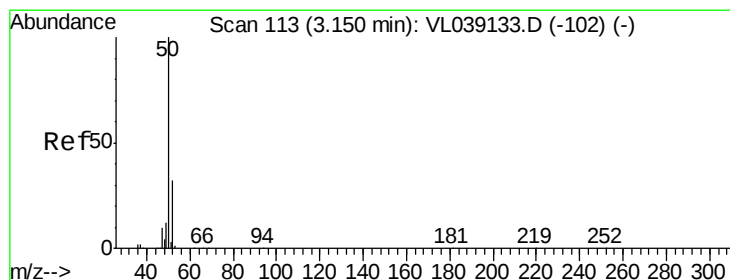
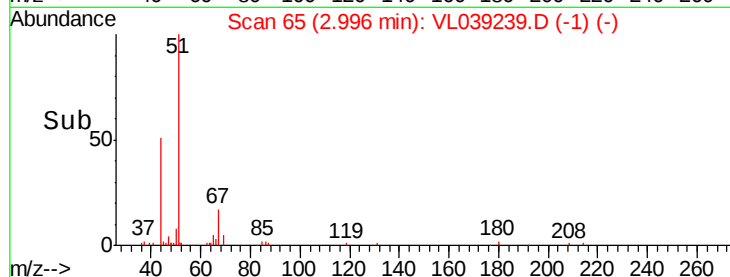
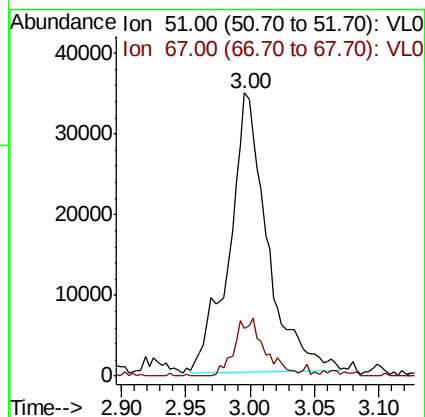
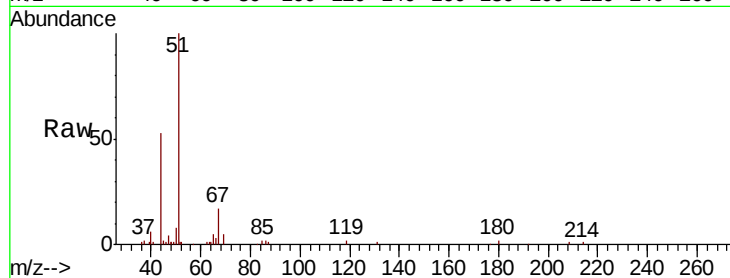
Acq: 8 Jun 2022 17:42

Tot Ion: 51 Resp: 71103

Ion Ratio Lower Upper

51 100

67 18.5 16.2 24.4



#4

Chloromethane

Concen: 0.513 ppbv

RT: 3.15 min Scan# 113

Delta R.T. -0.00 min

Lab File: VL039239.D

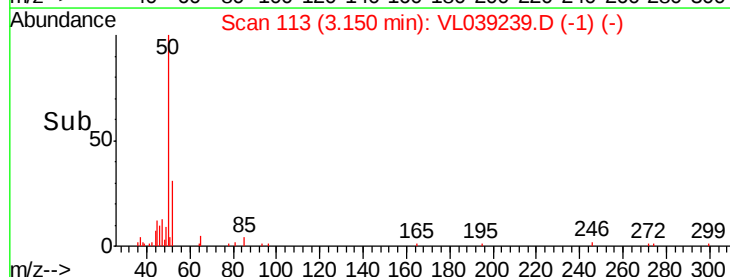
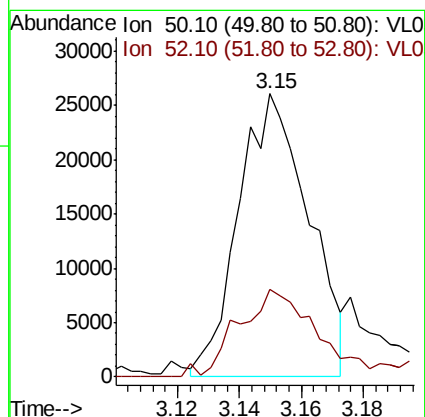
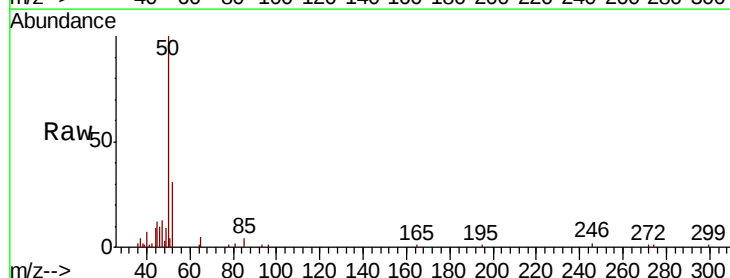
Acq: 8 Jun 2022 17:42

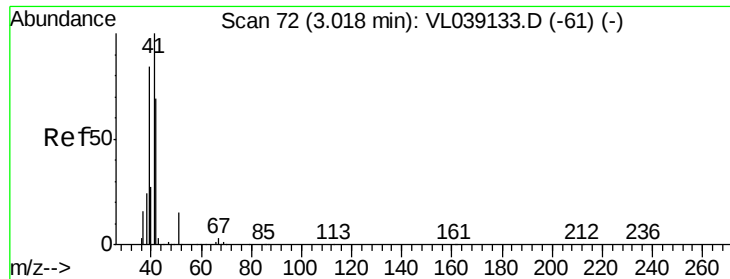
Tgt Ion: 50 Resp: 41059

Ion Ratio Lower Upper

50 100

52 27.6 25.9 38.9





#9

Propene

Concen: 0.622 ppbv

RT: 3.03 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

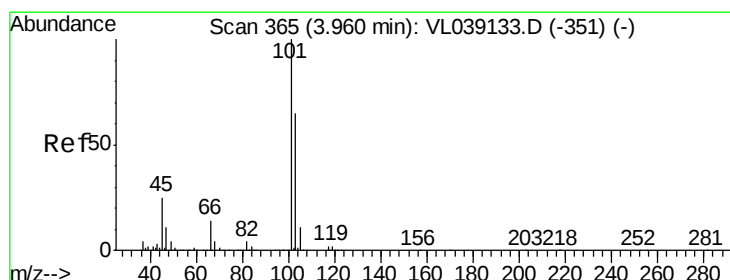
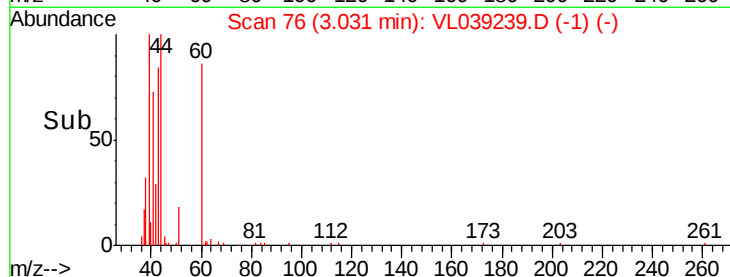
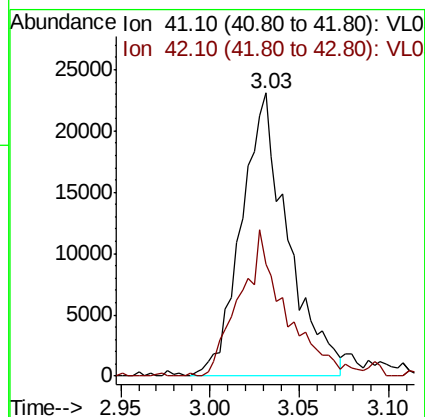
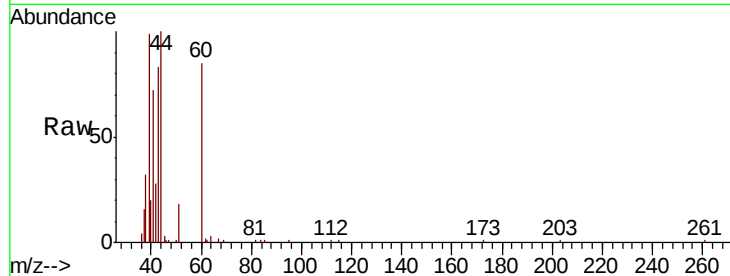
Acq: 8 Jun 2022 17:42

Tot Ion: 41 Resp: 42234

Ion Ratio Lower Upper

41 100

42 52.6 55.4 83.2#



#11

Trichlorofluoromethane

Concen: 0.255 ppbv

RT: 3.96 min Scan# 365

Delta R.T. -0.00 min

Lab File: VL039239.D

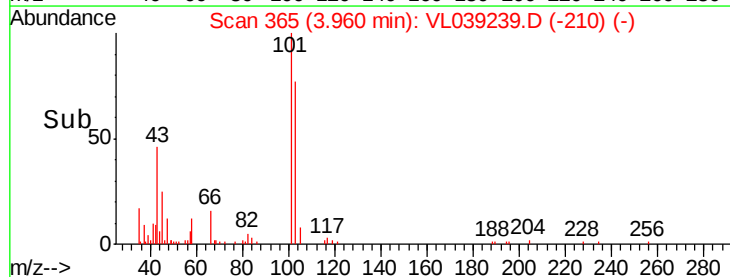
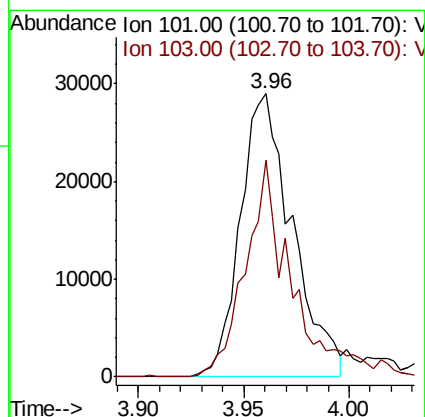
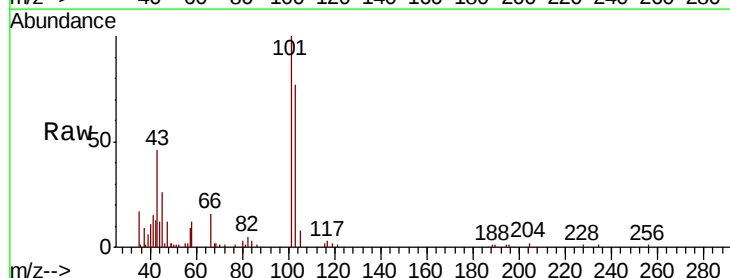
Acq: 8 Jun 2022 17:42

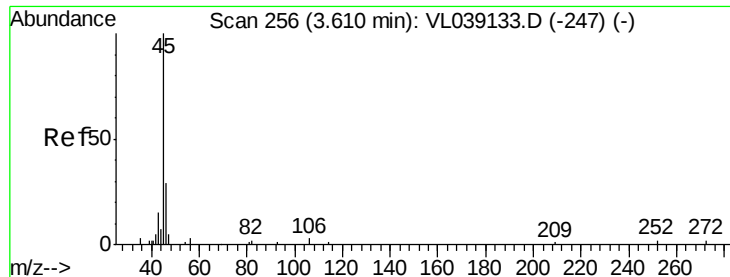
Tgt Ion:101 Resp: 49603

Ion Ratio Lower Upper

101 100

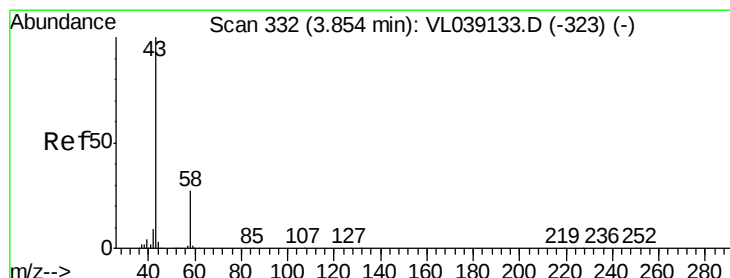
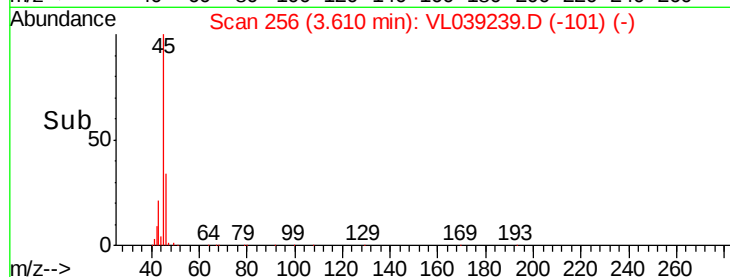
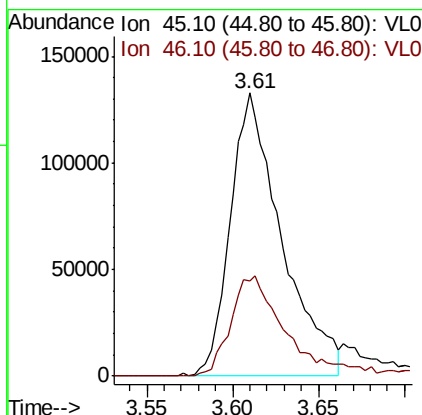
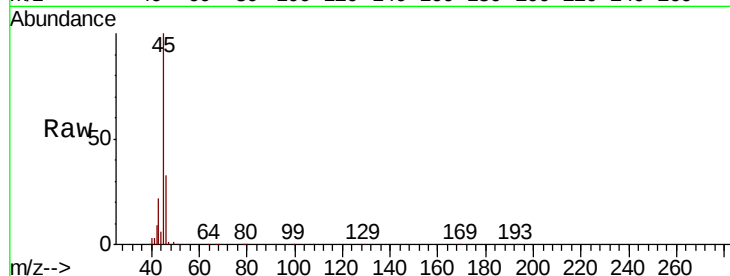
103 76.8 51.7 77.5





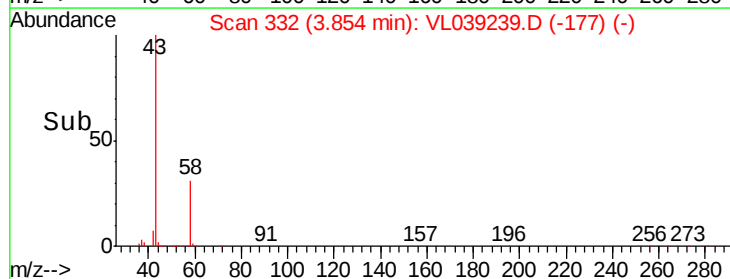
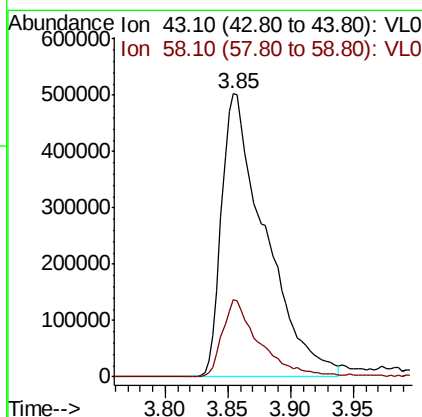
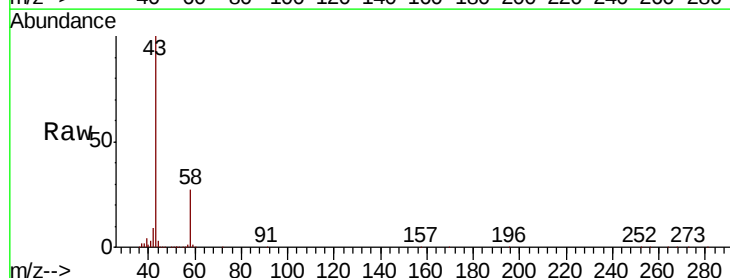
#13
Ethanol
Concen: 73.815 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 8 Jun 2022 17:42

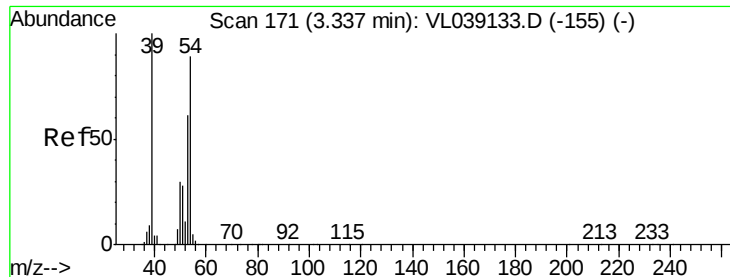
Tot Ion: 45 Resp: 273533
Ion Ratio Lower Upper
45 100
46 40.4 0.0 0.0#



#15
Acetone
Concen: 9.513 ppbv
RT: 3.85 min Scan# 332
Delta R.T. -0.00 min
Lab File: VL039239.D
Acq: 8 Jun 2022 17:42

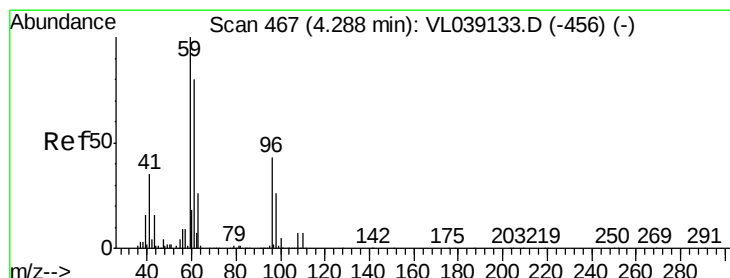
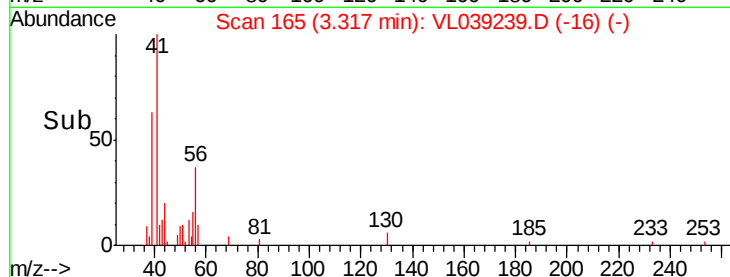
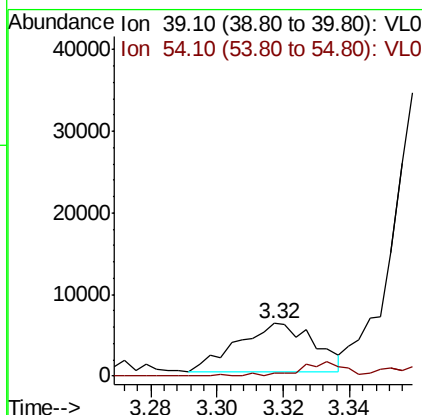
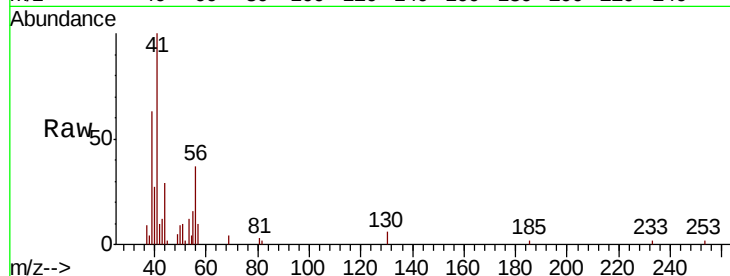
Tgt Ion: 43 Resp: 1213676
Ion Ratio Lower Upper
43 100
58 23.8 22.5 33.7





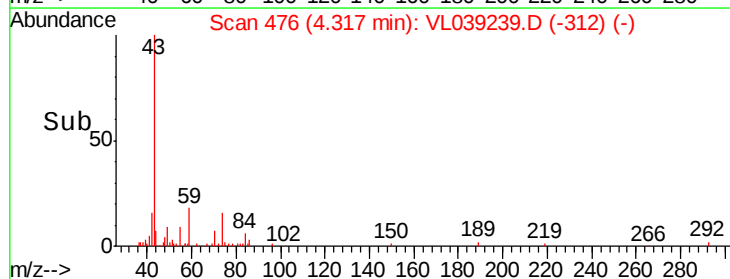
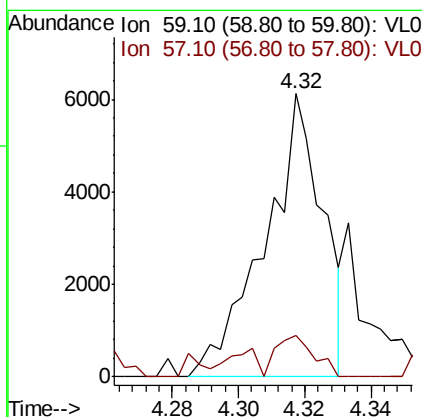
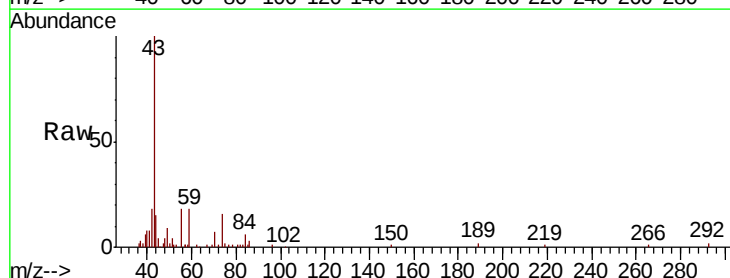
#16
 1,3-Butadiene
 Concen: 0.141 ppbv
 RT: 3.32
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 8 Jun 2022 17:42

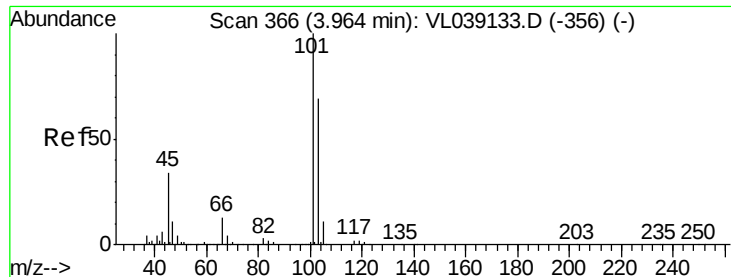
Tot Ion: 39 Resp: 9658
 Ion Ratio Lower Upper
 39 100
 54 19.8 65.8 98.6#



#17
 tert-Butyl alcohol
 Concen: 0.075 ppbv
 RT: 4.32 min Scan# 476
 Delta R.T. 0.03 min
 Lab File: VL039239.D
 Acq: 8 Jun 2022 17:42

Tgt Ion: 59 Resp: 7394
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.1 13.7#





#19

Isopropyl Alcohol

Concen: 0.287 ppbv

RT: 3.99 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

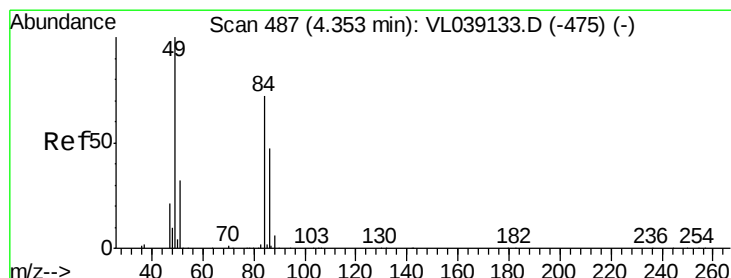
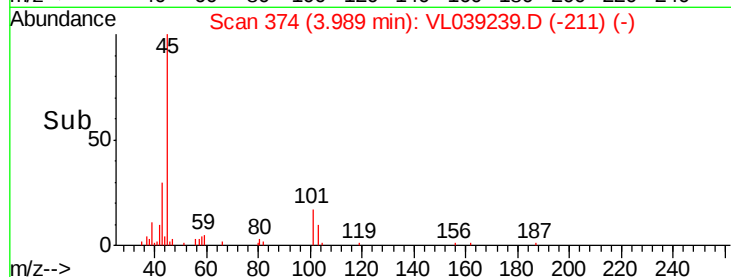
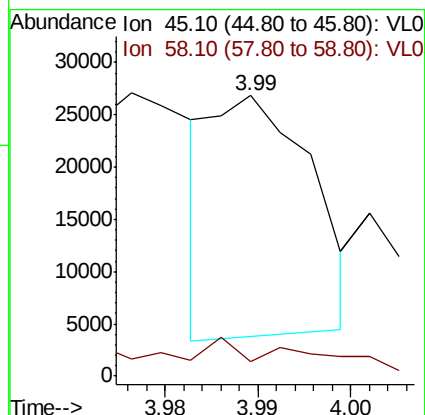
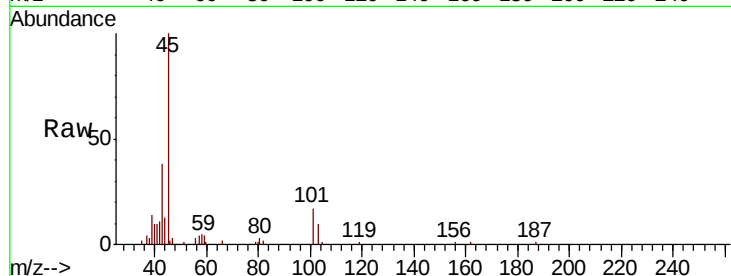
Acq: 8 Jun 2022 17:42

Tot Ion: 45 Resp: 17162

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#



#20

Methylene Chloride

Concen: 41.988 ppbv

RT: 4.35 min Scan# 486

Delta R.T. -0.00 min

Lab File: VL039239.D

Acq: 8 Jun 2022 17:42

Tgt Ion: 84 Resp: 2257433

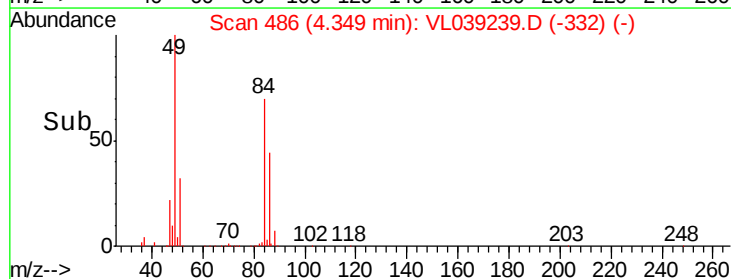
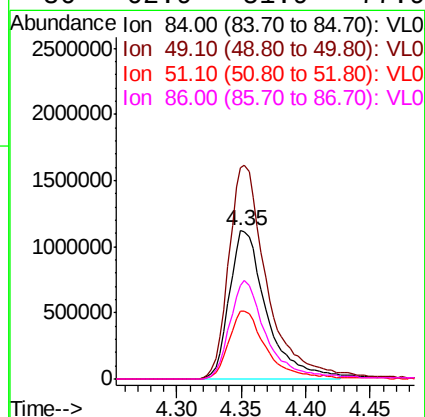
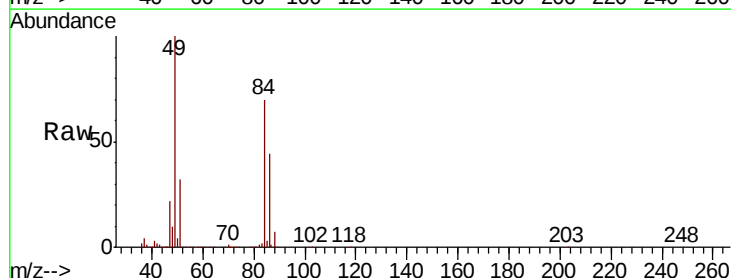
Ion Ratio Lower Upper

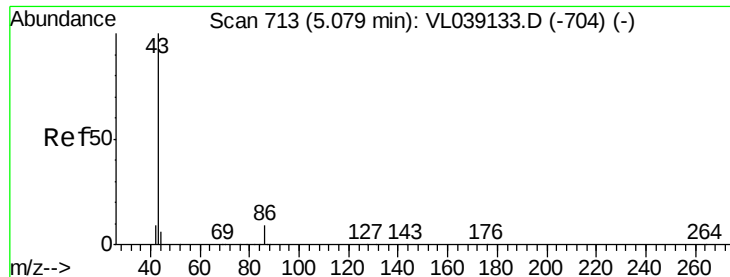
84 100

49 142.4 111.1 166.7

51 46.1 35.3 52.9

86 62.9 51.9 77.9





#23

Vinyl Acetate

Concen: 0.969 ppbv

RT: 5.07 Instrument:

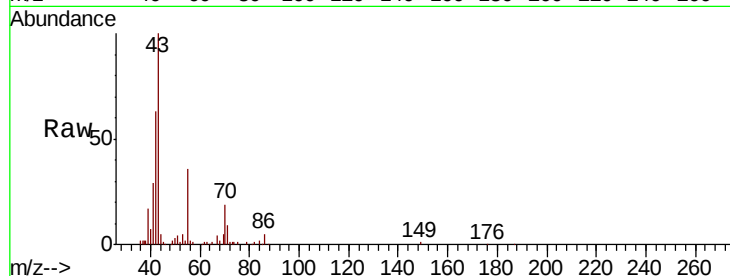
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 8 Jun 2022 17:42

Tot Ion: 43 Resp: 102253

Ion	Ratio	Lower	Upper
43	100		
86	4.8	6.0	9.0#
42	61.6	8.2	12.4#
44	2.3	4.3	6.5#



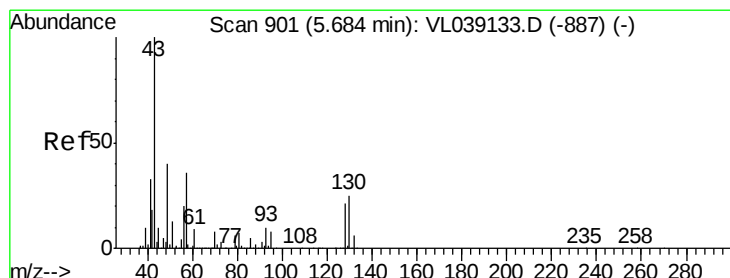
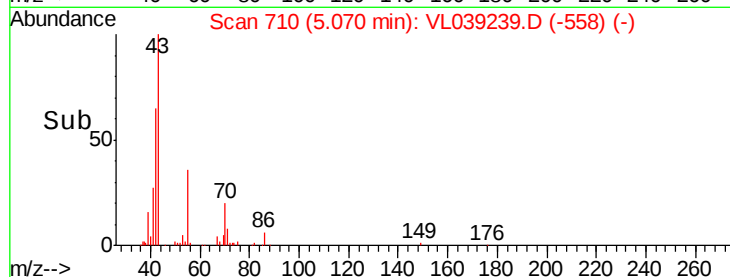
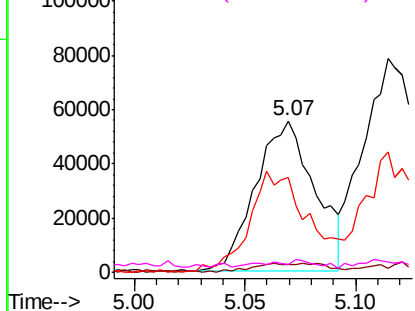
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 5.326 ppbv

RT: 5.69 min Scan# 904

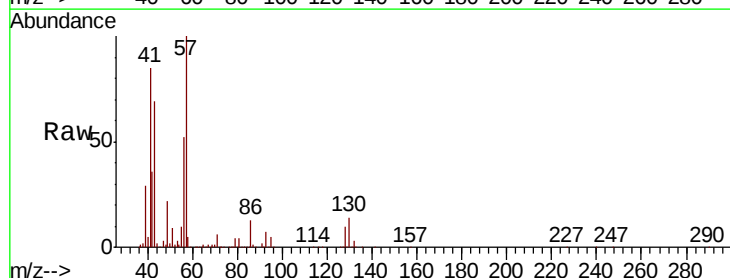
Delta R.T. 0.01 min

Lab File: VL039239.D

Acq: 8 Jun 2022 17:42

Tgt Ion: 43 Resp: 1531596

Ion	Ratio	Lower	Upper
43	100		
45	0.4	8.2	12.2#
61	0.3	8.4	12.6#
70	1.6	5.6	8.4#



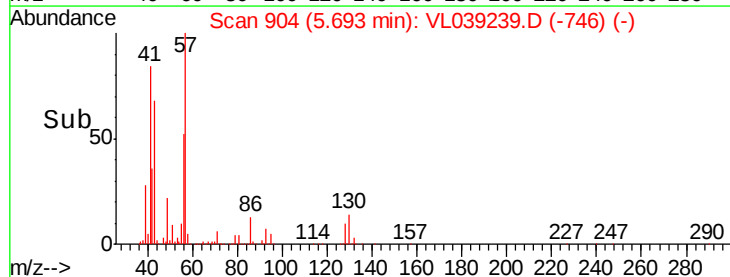
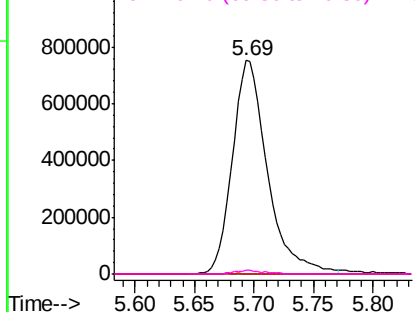
Abundance

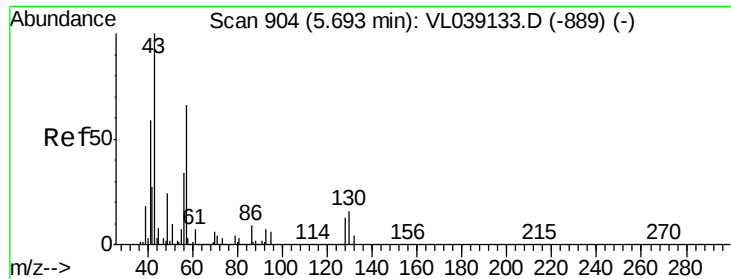
Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

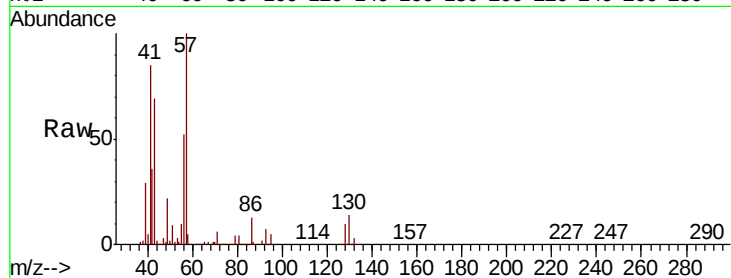
Ion 70.10 (69.80 to 70.80): VL0



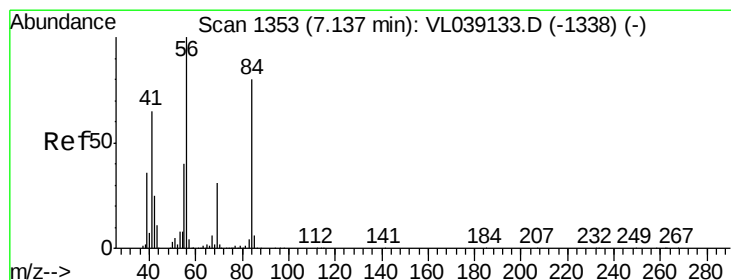
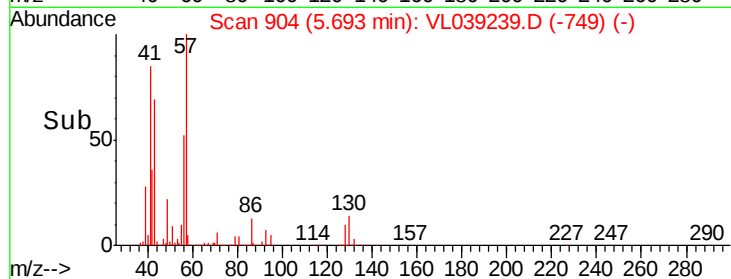
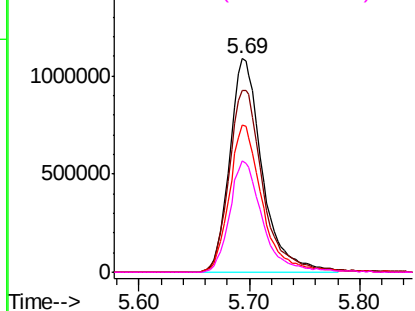


#26
Hexane
Concen: 17.641 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 8 Jun 2022 17:42

Tot Ion:	57	Resp:	2229167
Ion	Ratio	Lower	Upper
57	100		
41	89.7	72.4	108.6
43	70.0	187.0	280.6#
56	52.8	41.8	62.6

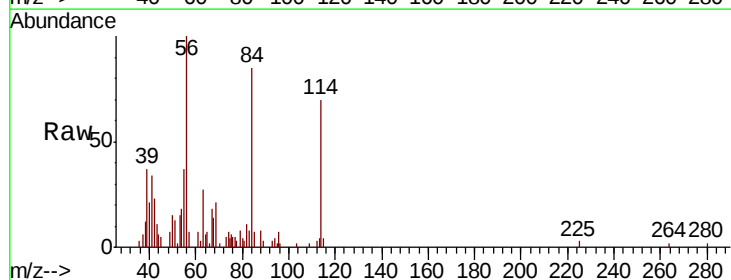


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

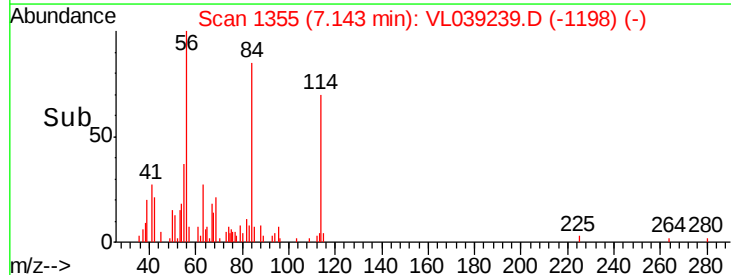
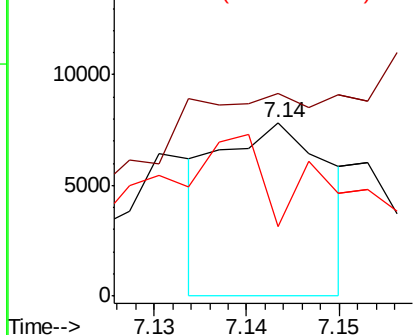


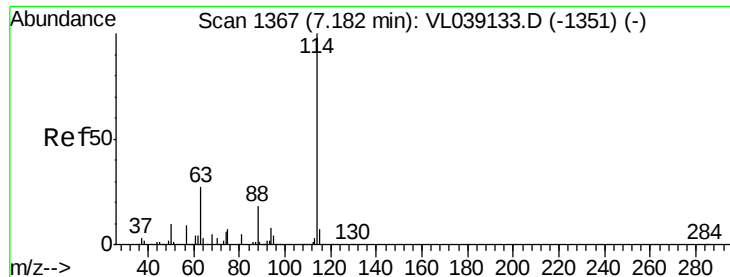
#30
Cyclohexane
Concen: 0.061 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. 0.01 min
Lab File: VL039239.D
Acq: 8 Jun 2022 17:42

Tgt Ion:	84	Resp:	6450
Ion	Ratio	Lower	Upper
84	100		
56	0.0	110.6	165.8#
41	252.1	68.9	103.3#



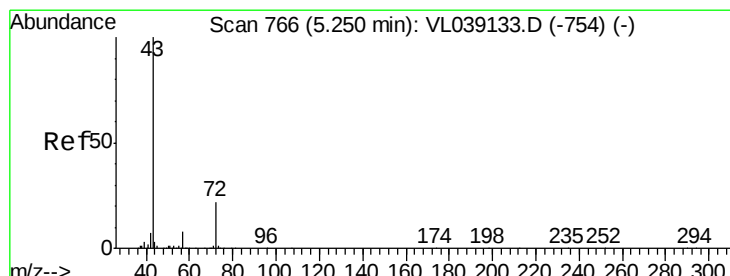
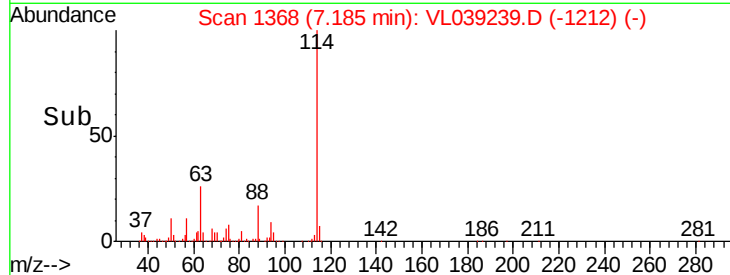
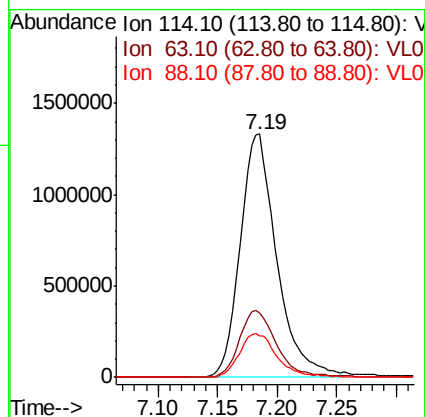
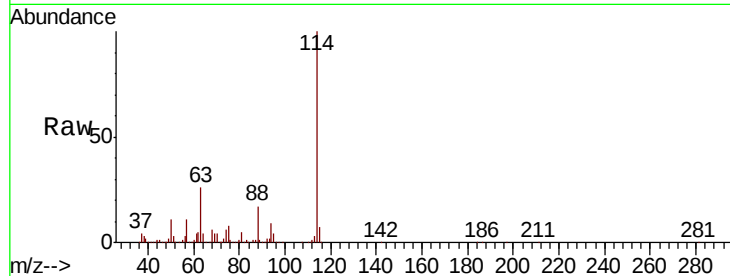
Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0





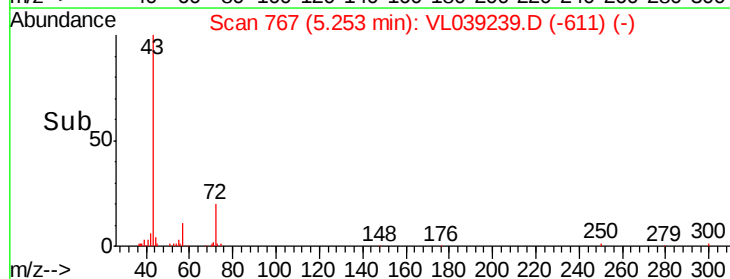
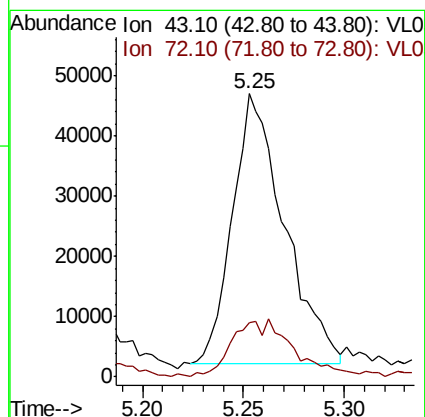
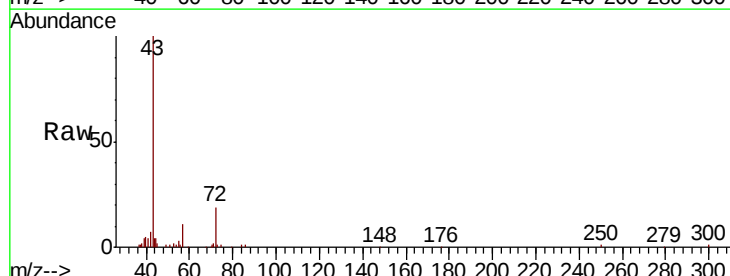
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 8 Jun 2022 17:42

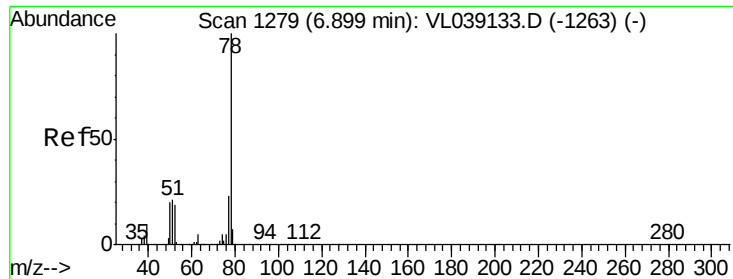
Tot Ion:114 Resp: 2826548
 Ion Ratio Lower Upper
 114 100
 63 28.3 21.7 32.5
 88 18.9 14.8 22.2



#34
 2-Butanone
 Concen: 0.521 ppbv
 RT: 5.25 min Scan# 767
 Delta R.T. 0.00 min
 Lab File: VL039239.D
 Acq: 8 Jun 2022 17:42

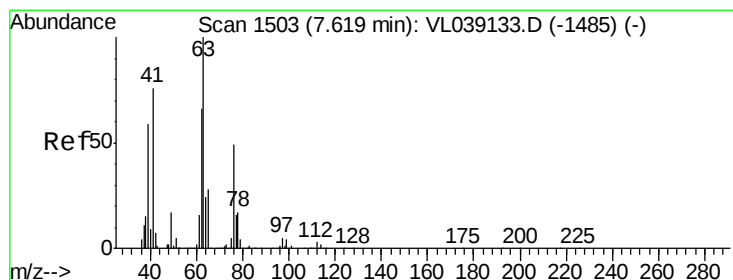
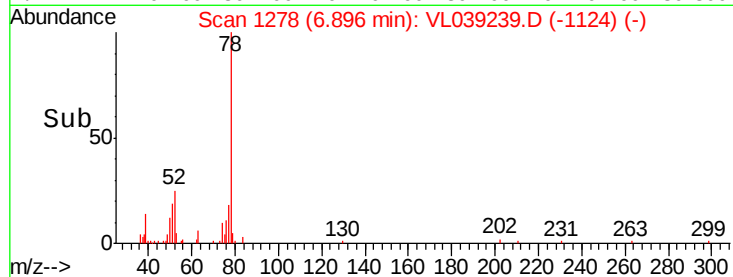
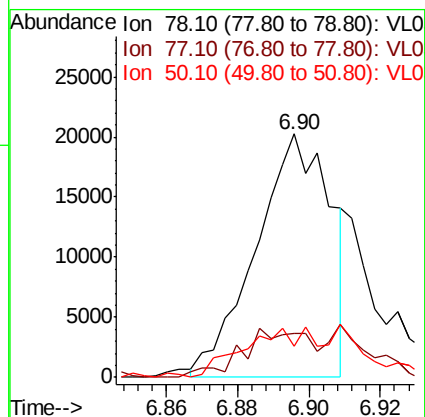
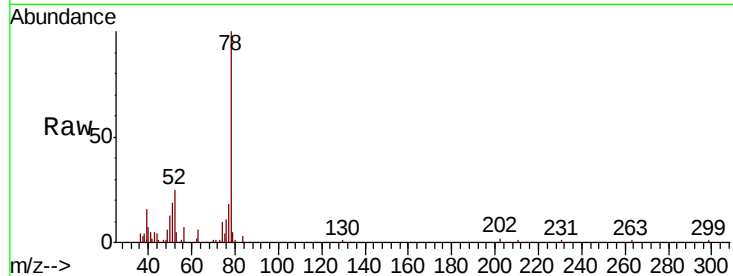
Tgt Ion: 43 Resp: 80073
 Ion Ratio Lower Upper
 43 100
 72 25.8 18.2 27.2





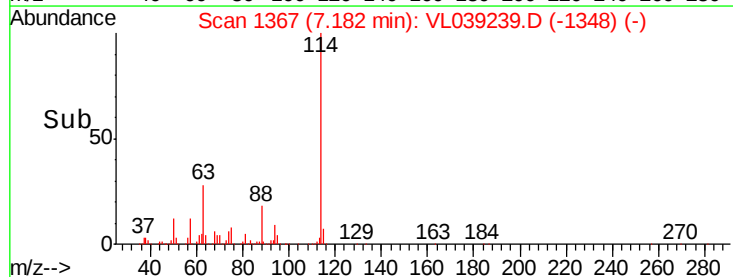
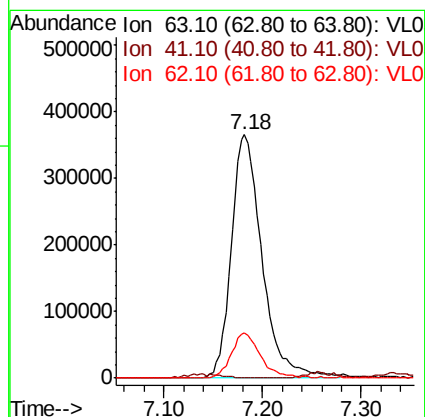
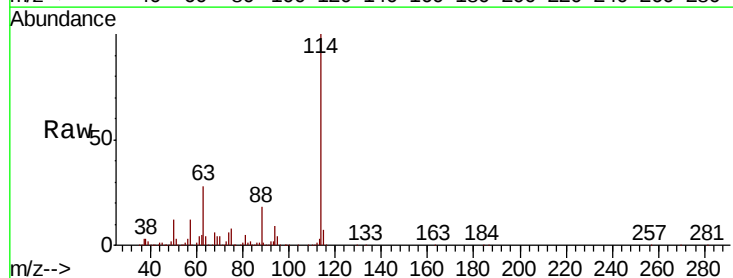
#36
Benzene
Concen: 0.128 ppbv
RT: 6.90
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 8 Jun 2022 17:42

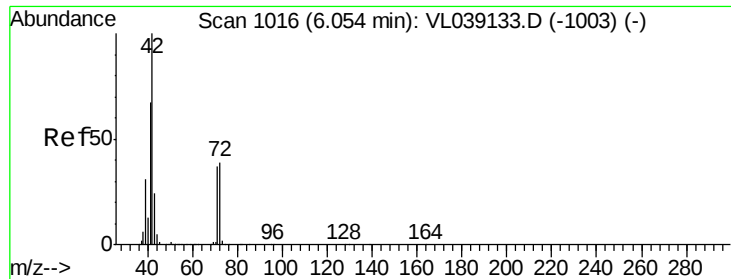
Tot Ion	78	Resp	29415
Ion Ratio	Lower	Upper	
78	100		
77	16.4	18.6	27.8#
50	13.3	15.8	23.8#



#39
1,2-Dichloropropane
Concen: 8.679 ppbv
RT: 7.18 min Scan# 1367
Delta R.T. -0.44 min
Lab File: VL039239.D
Acq: 8 Jun 2022 17:42

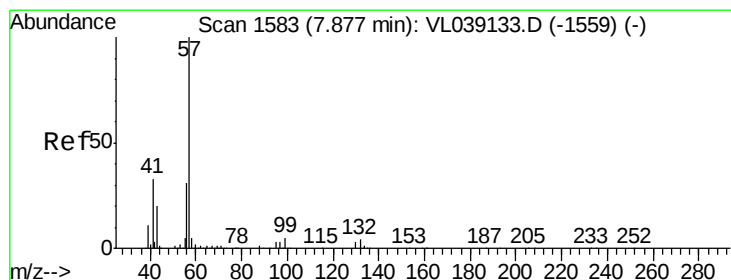
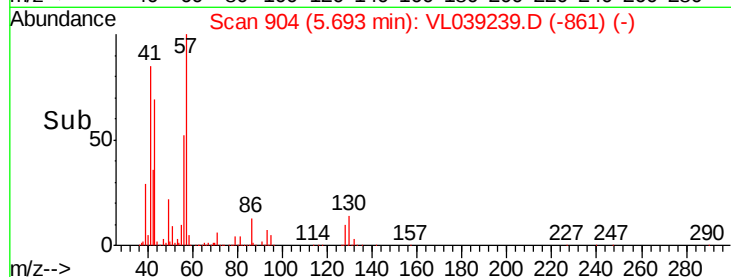
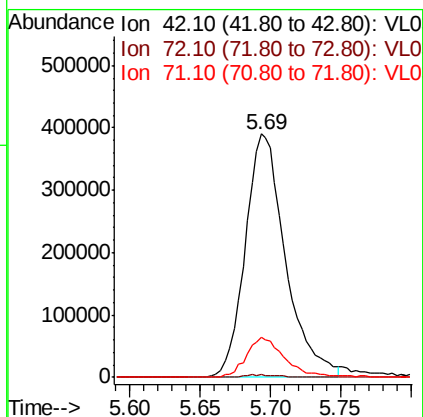
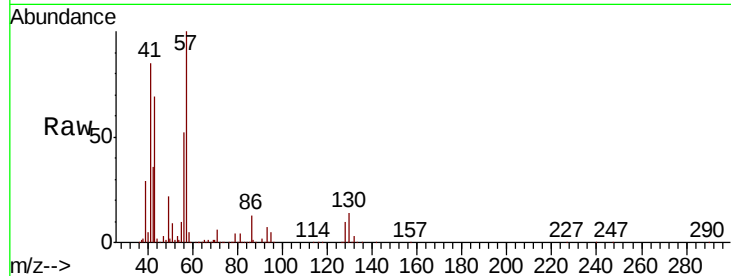
Tgt Ion	63	Resp	792163
Ion Ratio	Lower	Upper	
63	100		
41	0.0	60.8	91.2#
62	18.6	52.9	79.3#





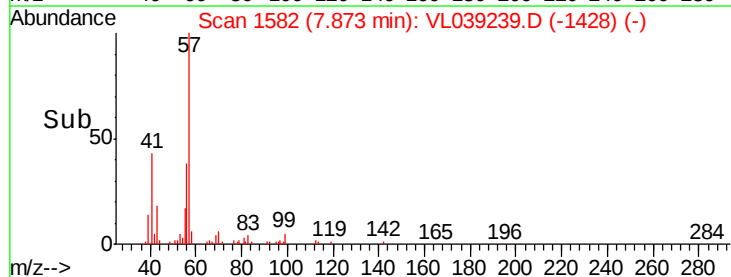
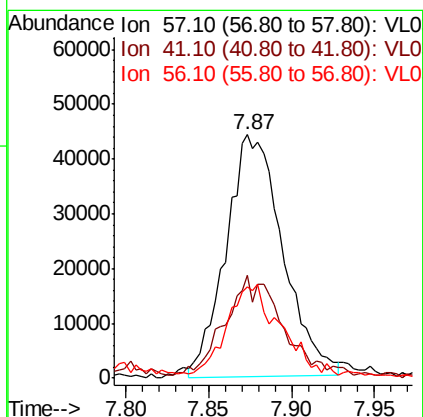
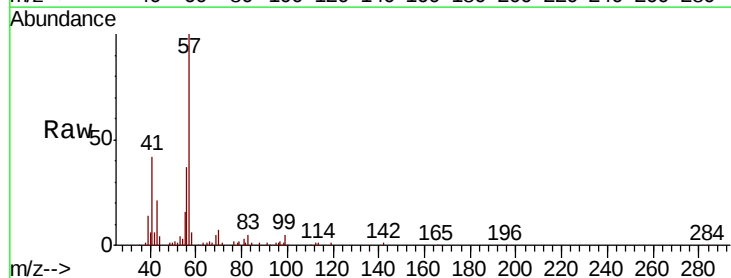
#41
Tetrahydrofuran
Concen: 8.438 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 8 Jun 2022 17:42

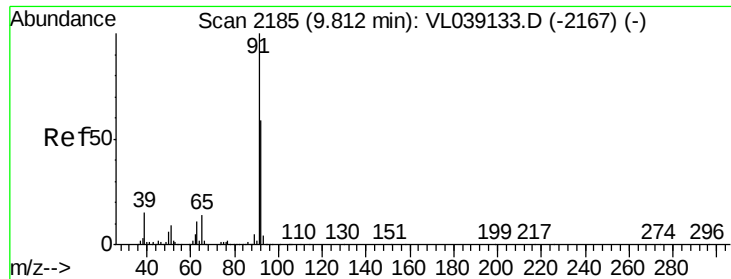
Tot Ion	Ratio	Lower	Upper
42	100		
72	1.0	32.0	48.0#
71	16.3	31.1	46.7#



#44
2,2,4-Trimethylpentane
Concen: 0.262 ppbv
RT: 7.87 min Scan# 1582
Delta R.T. -0.00 min
Lab File: VL039239.D
Acq: 8 Jun 2022 17:42

Tgt Ion	Ratio	Lower	Upper
57	100		
41	45.2	26.2	39.4#
56	40.5	24.7	37.1#





#53

Toluene

Concen: 0.535 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

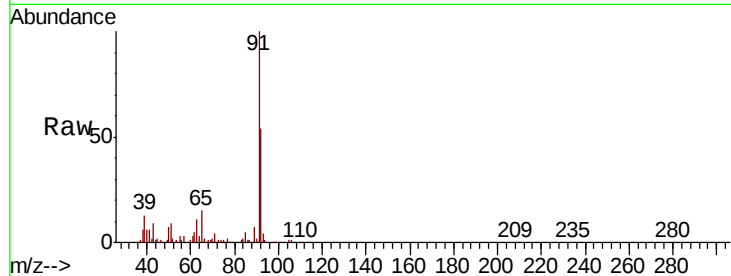
Acq: 8 Jun 2022 17:42

Tot Ion: 91 Resp: 141287

Ion Ratio Lower Upper

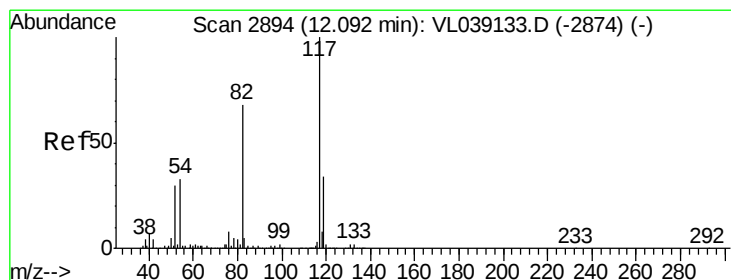
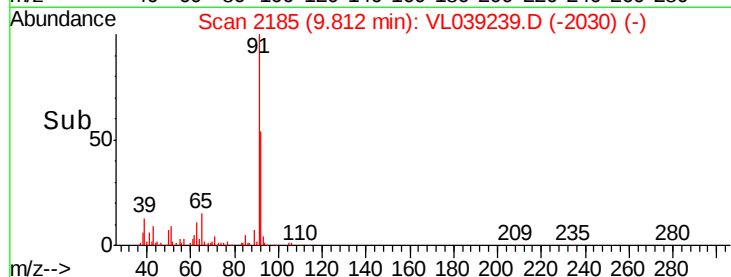
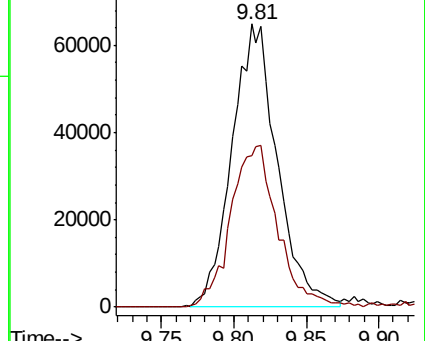
91 100

92 59.0 48.1 72.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2895

Delta R.T. 0.00 min

Lab File: VL039239.D

Acq: 8 Jun 2022 17:42

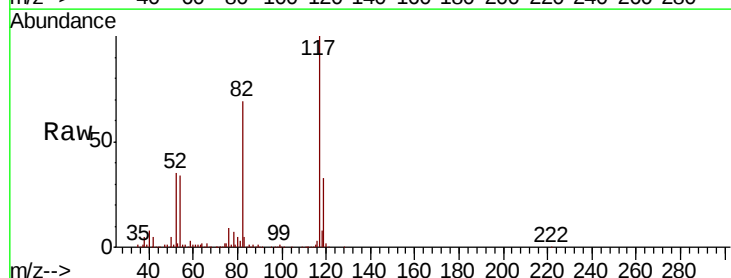
Tgt Ion: 117 Resp: 2346112

Ion Ratio Lower Upper

117 100

82 74.8 55.1 82.7

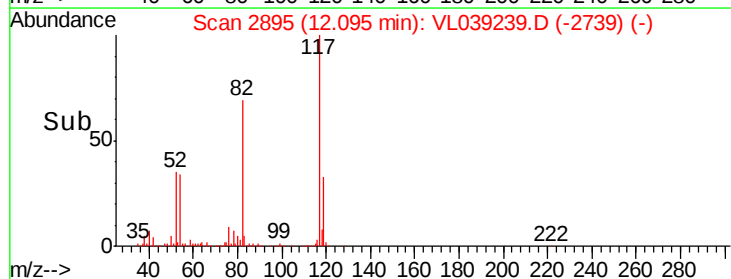
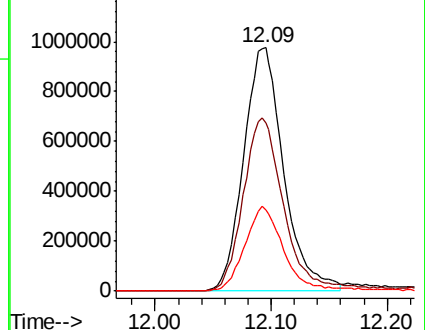
119 34.3 24.7 37.1

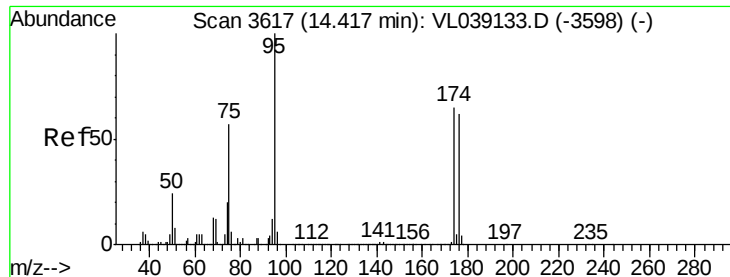


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

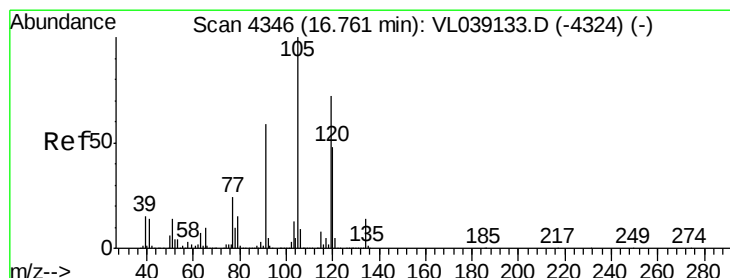
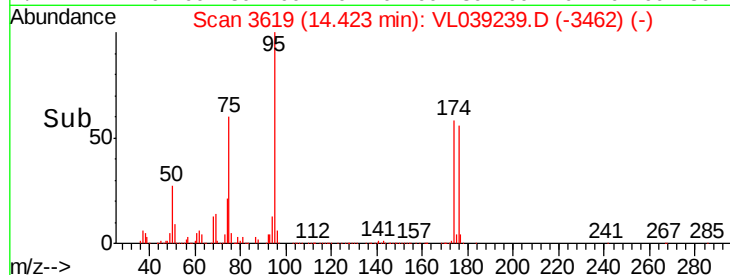
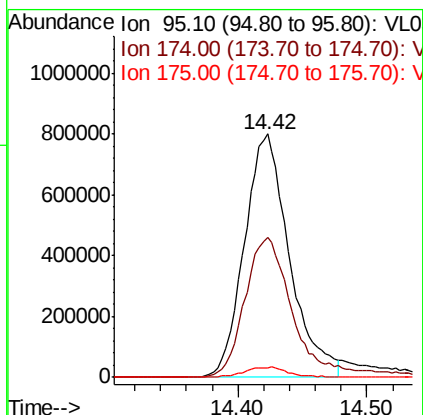
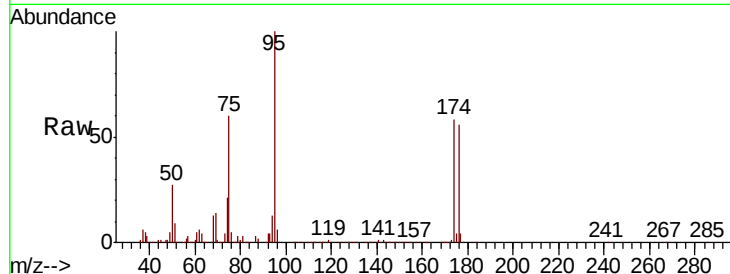
Ion 119.10 (118.80 to 119.80): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.037 ppbv
 RT: 14.42 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 8 Jun 2022 17:42

Tot Ion: 95 Resp: 1946857
 Ion Ratio Lower Upper
 95 100
 174 64.7 53.8 80.8
 175 4.8 4.1 6.1



#74
 1,2,4-Trimethylbenzene
 Concen: 0.047 ppbv
 RT: 16.77 min Scan# 4348
 Delta R.T. 0.01 min
 Lab File: VL039239.D
 Acq: 8 Jun 2022 17:42

Tgt Ion: 105 Resp: 14845
 Ion Ratio Lower Upper
 105 100
 120 26.2 38.1 57.1#
 91 4.6 47.4 71.0#
 77 0.0 19.5 29.3#

