

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090722\
 Data File : VL039622.D
 Acq On : 7 Sep 2022 16:54
 Operator : SY/AP
 Sample : N4494-01 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-1

Quant Time: Sep 08 05:58:05 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081722AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 26 06:05:16 2022
 QLast Update : Fri Aug 26 06:05:16 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.21	49	1074094	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	6.66	114	2754952	10.00	ppbv	0.00
55) Chlorobenzene-d5	11.47	117	2546142	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	13.78	95	1931506	10.06	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.60%

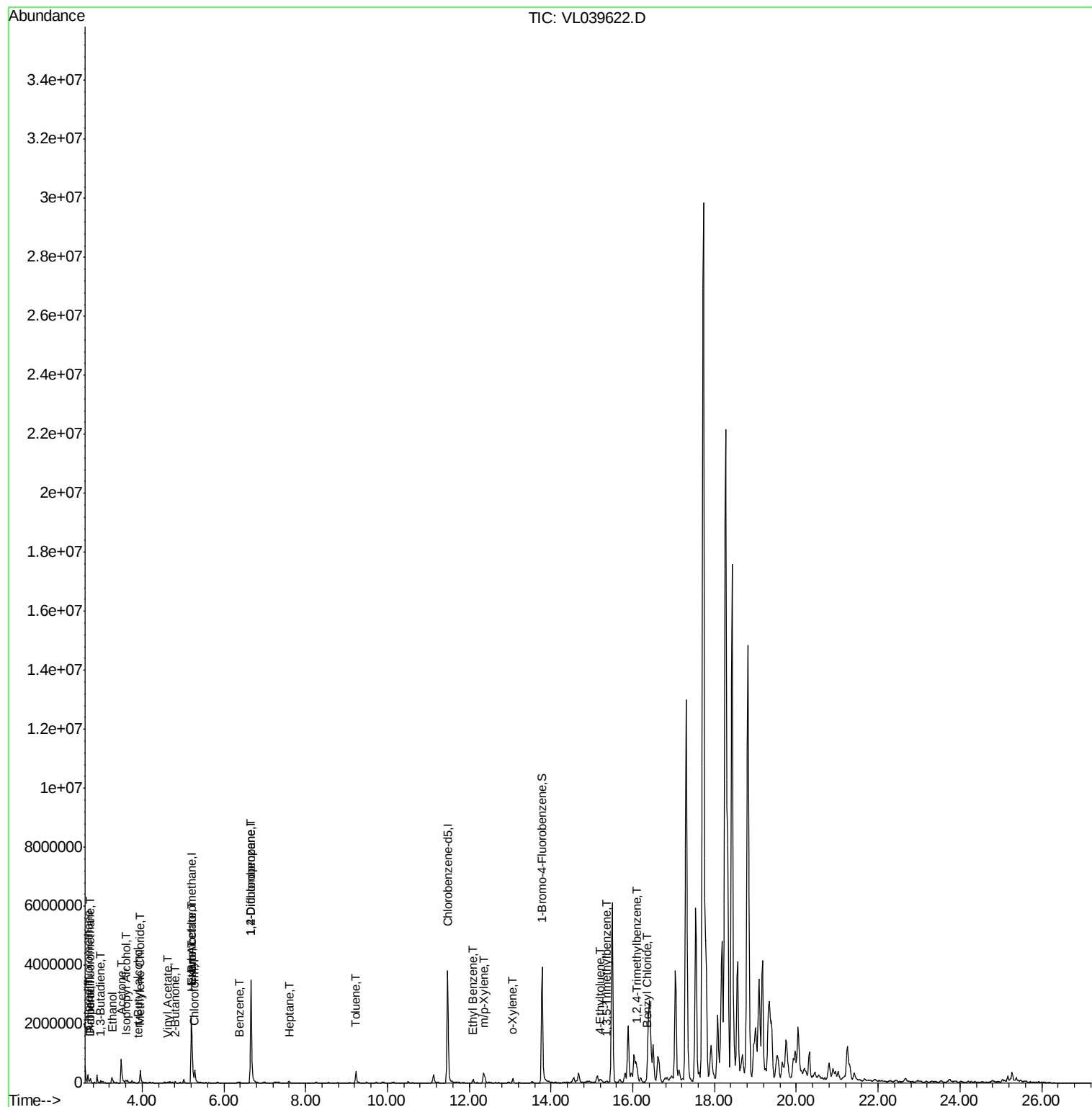
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	2.75	85	11828	0.083	ppbv	99
3) Chlorodifluoromethane	2.68	51	182685	1.428	ppbv #	61
9) Propene	2.73	41	28312	0.484	ppbv	92
10) Heptane	7.59	43	12332	0.091	ppbv #	24
13) Ethanol	3.26	45	229175	54.458	ppbv	71
15) Acetone	3.49	43	897624	7.461	ppbv	96
16) 1,3-Butadiene	2.99	39	23365	0.372	ppbv #	26
17) tert-Butyl alcohol	3.91	59	9062	0.088	ppbv #	71
19) Isopropyl Alcohol	3.61	45	91762	1.568	ppbv #	1
20) Methylene Chloride	3.95	84	143203	2.930	ppbv	98
23) Vinyl Acetate	4.64	43	3402	0.059	ppbv #	1
25) Ethyl Acetate	5.23	43	140873	0.547	ppbv #	78
26) Hexane	5.23	57	196391	1.869	ppbv #	37
29) Chloroform	5.29	83	259958	1.582	ppbv	94
34) 2-Butanone	4.81	43	26151	0.191	ppbv #	65
36) Benzene	6.38	78	16430	0.078	ppbv #	92
39) 1,2-Dichloropropane	6.66	63	653968	8.283	ppbv #	25
53) Toluene	9.23	91	311751	1.326	ppbv	100
58) Ethyl Benzene	12.10	91	87599	0.299	ppbv	94
59) m/p-Xylene	12.35	91	374466	1.427	ppbv	96
60) o-Xylene	13.07	91	105546	0.419	ppbv	97
66) Benzyl Chloride	16.34	91	929	0.034	ppbv #	67
72) 4-Ethyltoluene	15.20	105	66646	0.226	ppbv #	89
73) 1,3,5-Trimethylbenzene	15.35	105	40152	0.149	ppbv #	81
74) 1,2,4-Trimethylbenzene	16.11	105	258750	0.863	ppbv #	67

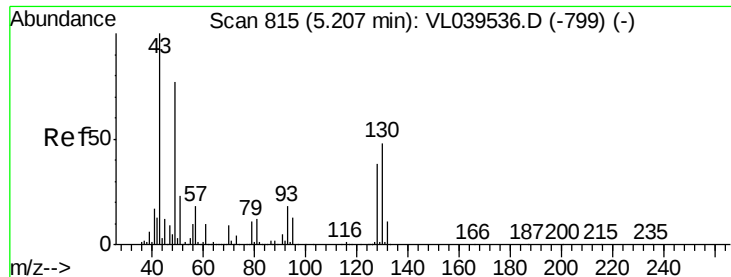
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Aug 26 06:05:16 2022
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.21 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Sep 2022 16:54 SV-1

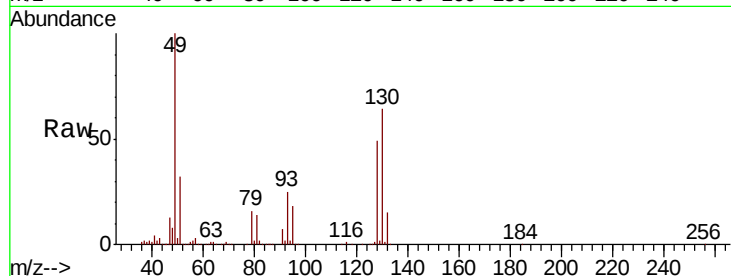
Tot Ion: 49 Resp: 1074094

Ion Ratio Lower Upper

49 100

128 50.4 26.7 80.0

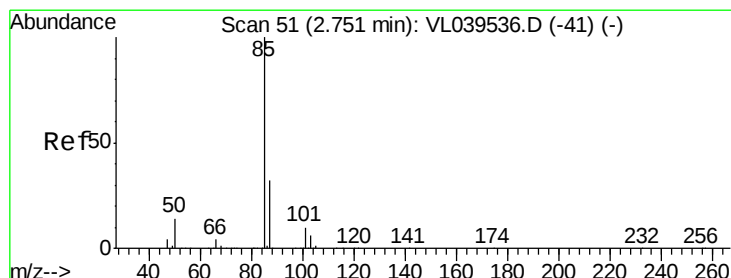
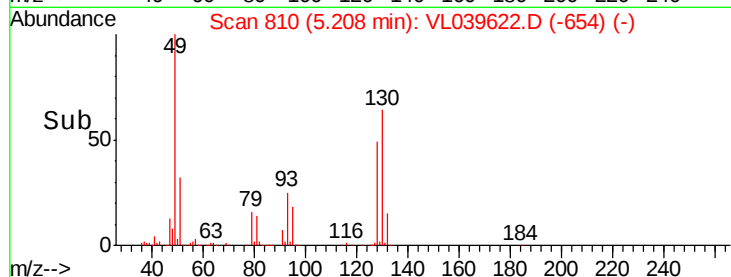
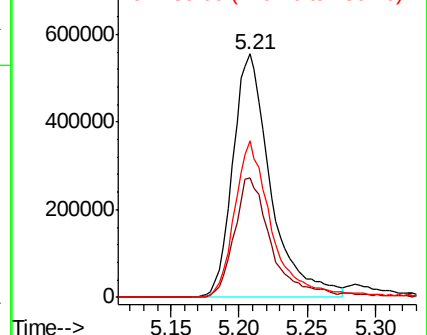
130 65.2 34.3 102.8



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: 0.083 ppbv

RT: 2.75 min Scan# 46

Delta R.T. 0.00 min

Lab File: VL039622.D

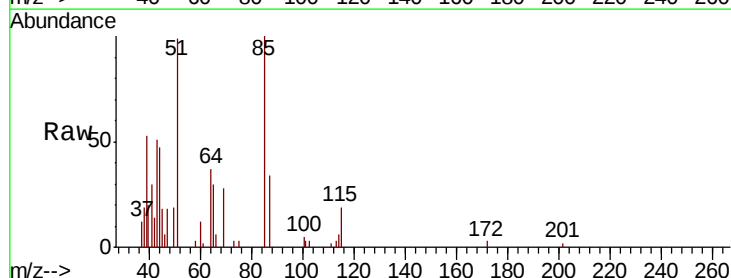
Acq: 7 Sep 2022 16:54

Tgt Ion: 85 Resp: 11828

Ion Ratio Lower Upper

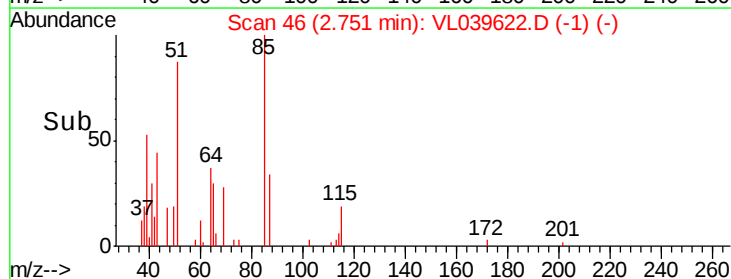
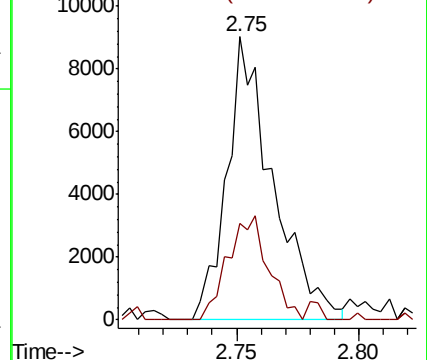
85 100

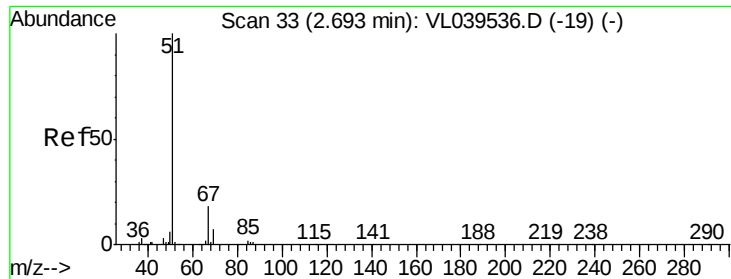
87 33.9 26.7 40.1



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.428 ppbv

RT: 2.68 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SV-1

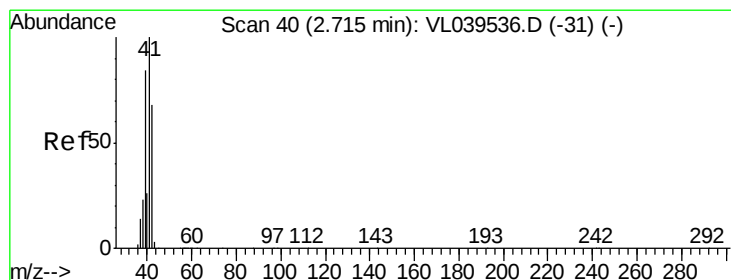
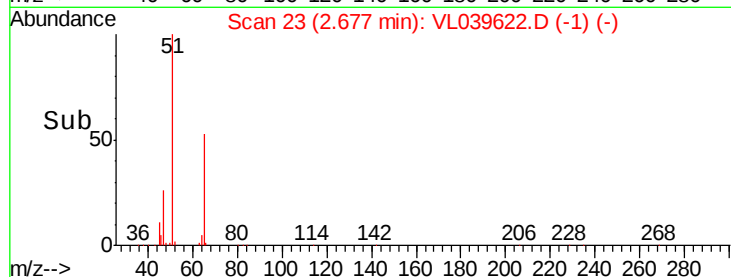
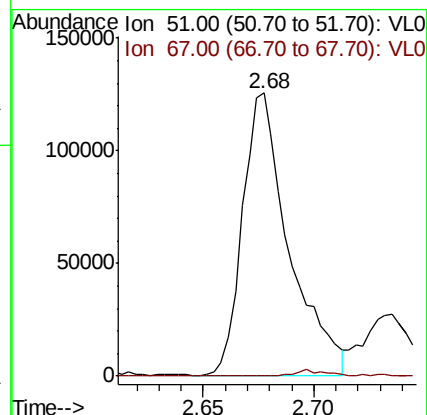
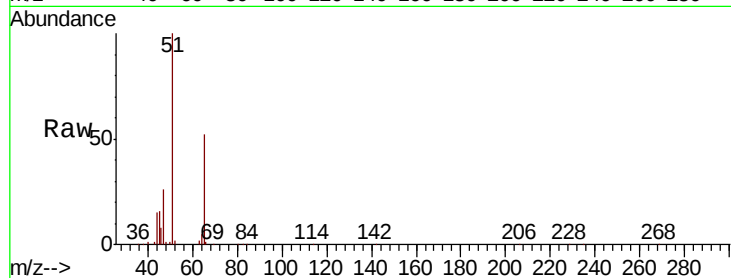
Acq: 7 Sep 2022 16:54

Tot Ion: 51 Resp: 182685

Ion Ratio Lower Upper

51 100

67 1.9 15.7 23.5#



#9

Propene

Concen: 0.484 ppbv

RT: 2.73 min Scan# 38

Delta R.T. 0.01 min

Lab File: VL039622.D

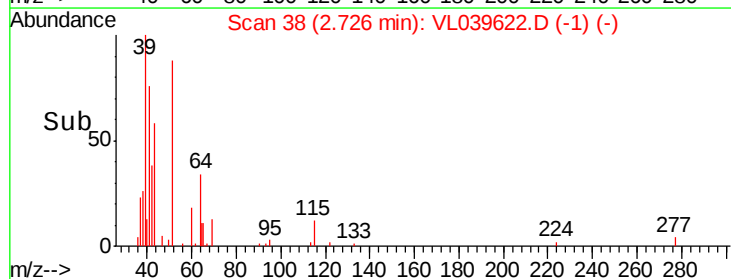
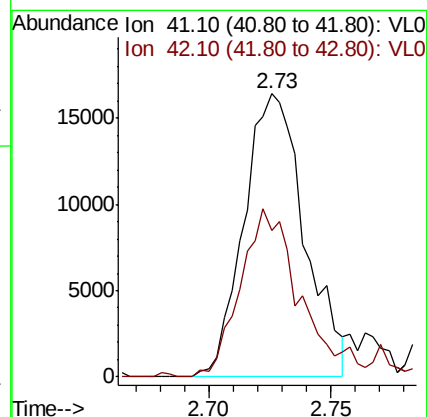
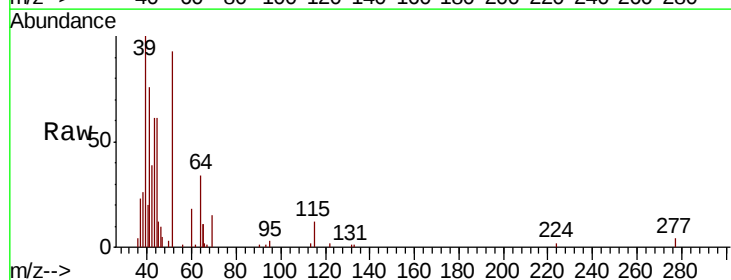
Acq: 7 Sep 2022 16:54

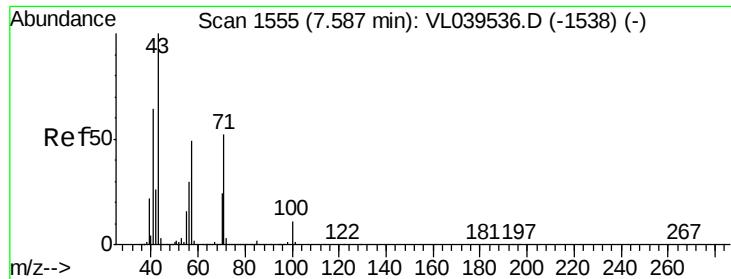
Tgt Ion: 41 Resp: 28312

Ion Ratio Lower Upper

41 100

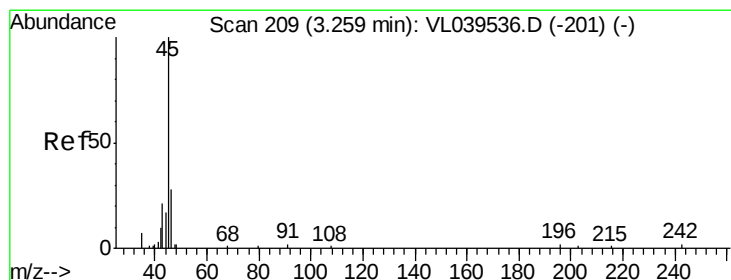
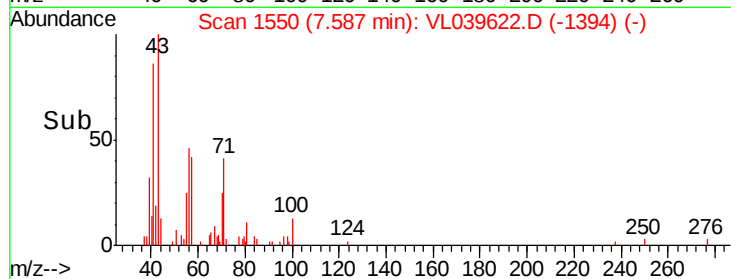
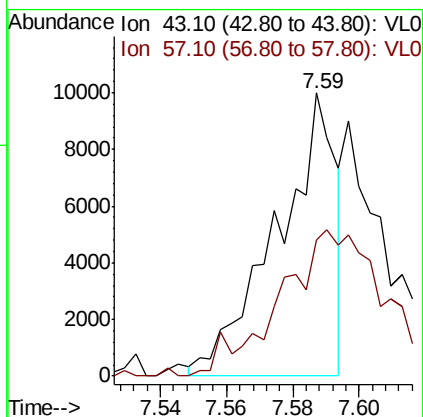
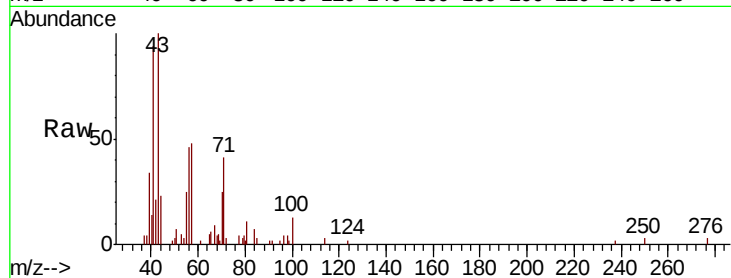
42 62.3 55.2 82.8





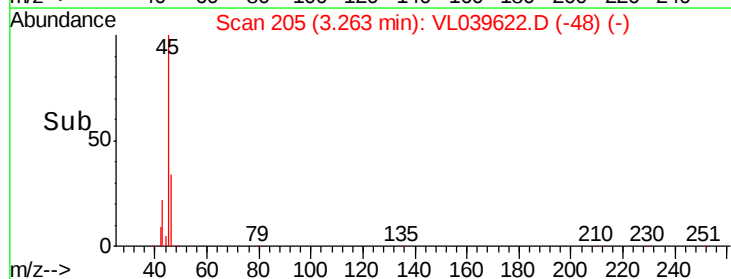
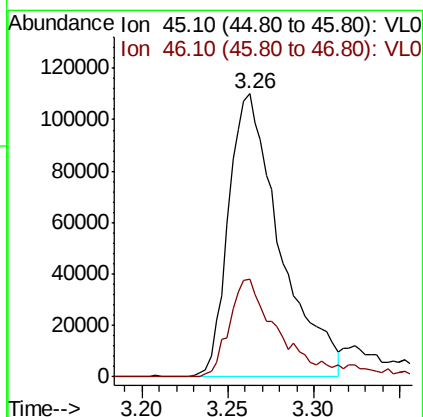
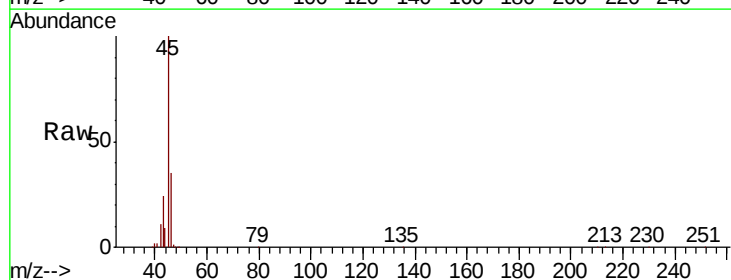
#10
Heptane
Concen: 0.091 ppbv
RT: 7.59
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SV-1
Acq: 7 Sep 2022 16:54

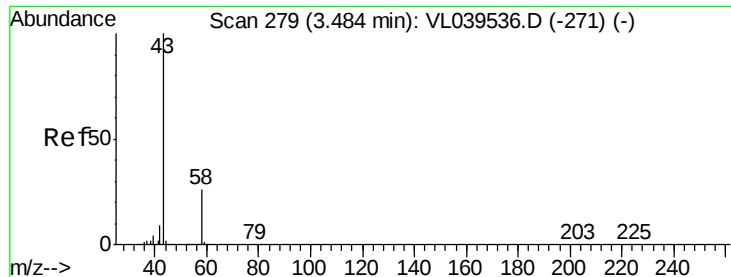
Tot Ion: 43 Resp: 12332
Ion Ratio Lower Upper
43 100
57 103.3 40.5 60.7#



#13
Ethanol
Concen: 54.458 ppbv
RT: 3.26 min Scan# 205
Delta R.T.: 0.00 min
Lab File: VL039622.D
Acq: 7 Sep 2022 16:54

Tgt Ion: 45 Resp: 229175
Ion Ratio Lower Upper
45 100
46 35.4 22.8 91.2





#15

Acetone

Concen: 7.461 ppbv

RT: 3.49

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

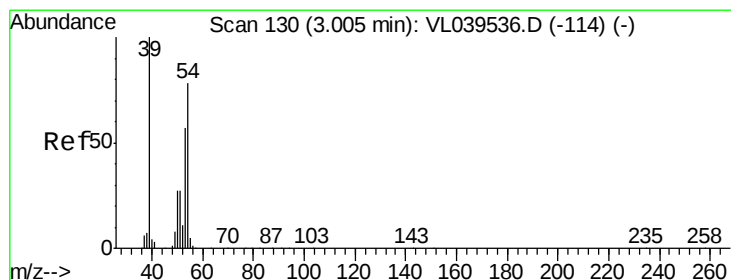
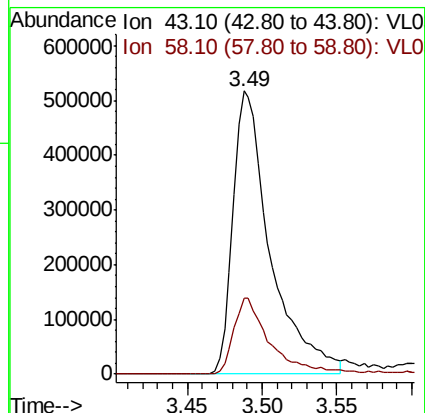
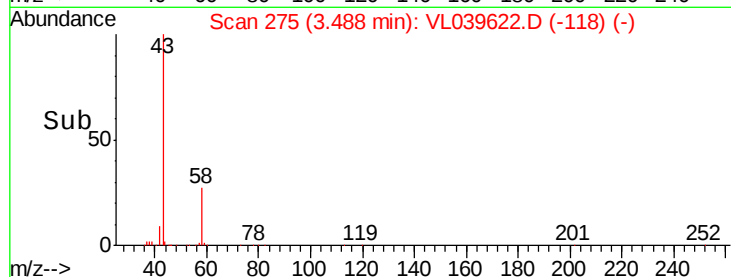
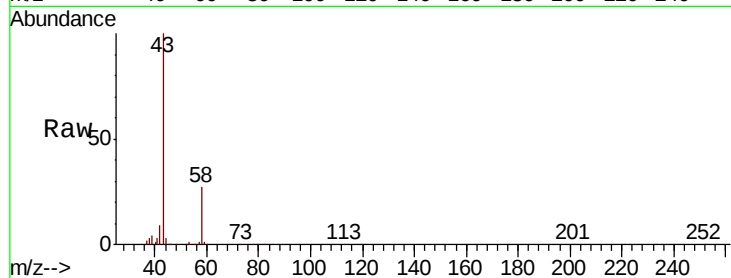
Acq: 7 Sep 2022 16:54

Tot Ion: 43 Resp: 897624

Ion Ratio Lower Upper

43 100

58 28.2 21.0 31.6



#16

1,3-Butadiene

Concen: 0.372 ppbv

RT: 2.99 min Scan# 120

Delta R.T. -0.02 min

Lab File: VL039622.D

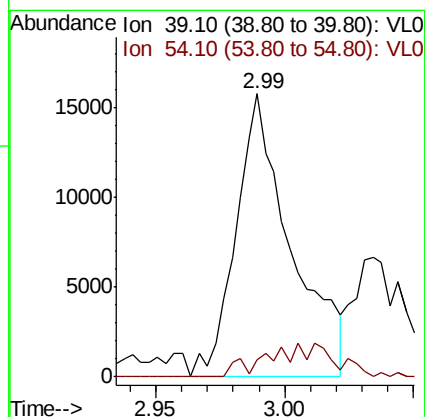
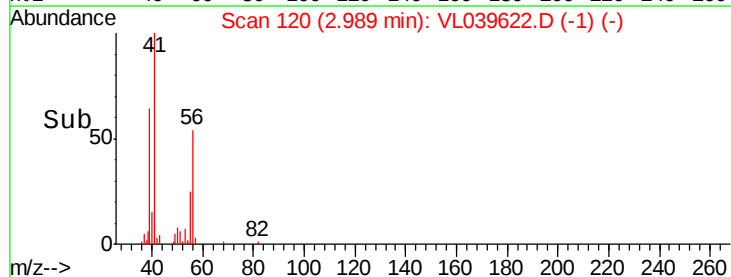
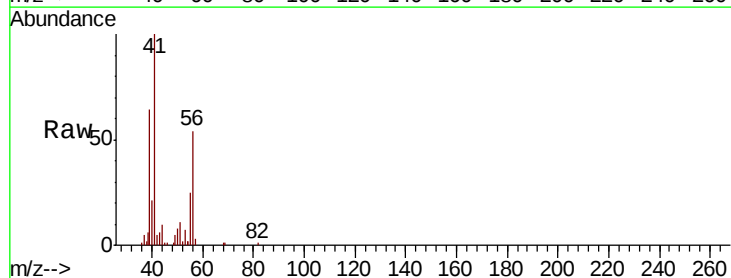
Acq: 7 Sep 2022 16:54

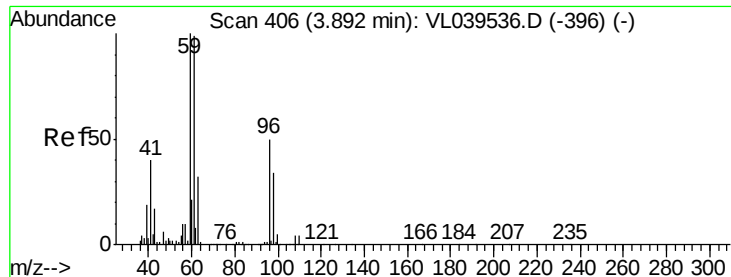
Tgt Ion: 39 Resp: 23365

Ion Ratio Lower Upper

39 100

54 14.8 63.7 95.5#





#17

tert-Butyl alcohol

Concen: 0.088 ppbv

RT: 3.91 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

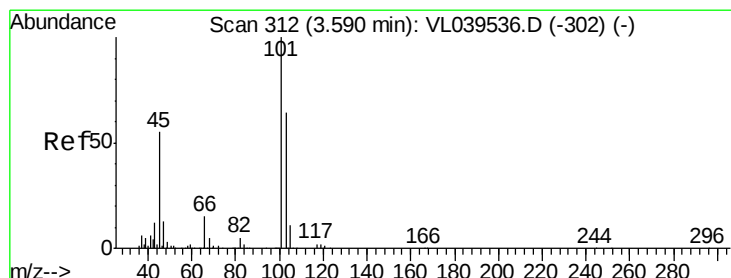
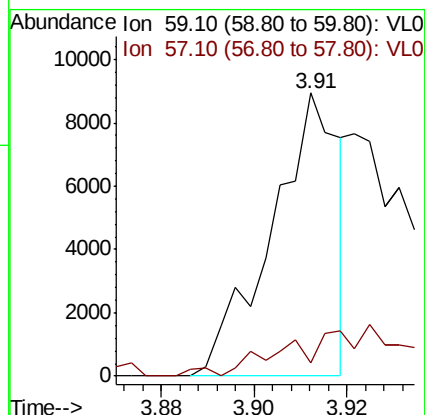
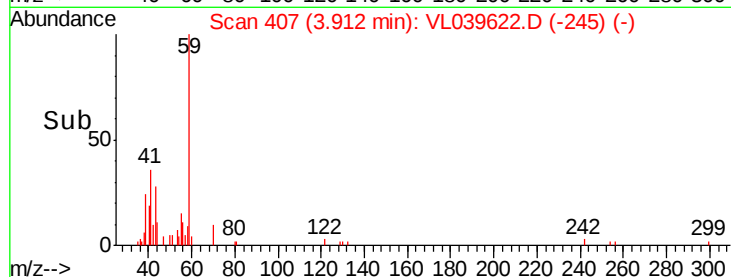
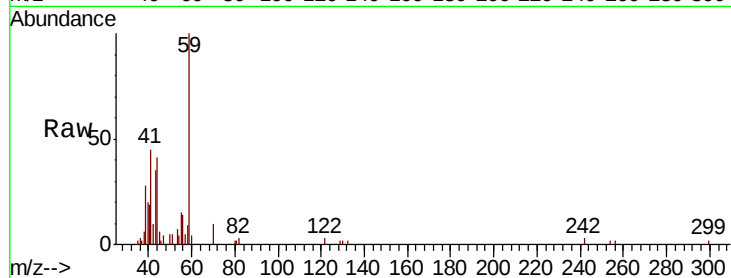
Acq: 7 Sep 2022 16:54

Tot Ion: 59 Resp: 9062

Ion Ratio Lower Upper

59 100

57 0.0 8.7 13.1#



#19

Isopropyl Alcohol

Concen: 1.568 ppbv

RT: 3.61 min Scan# 312

Delta R.T. 0.02 min

Lab File: VL039622.D

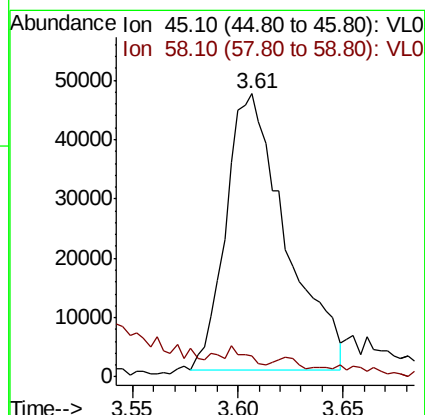
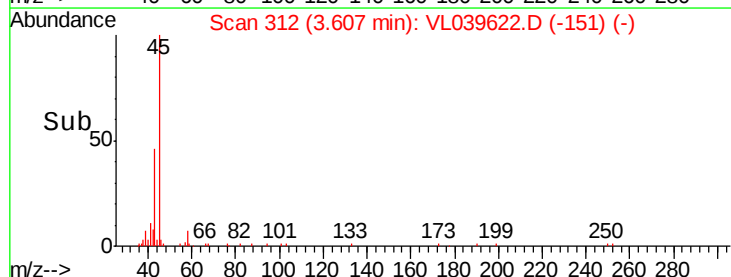
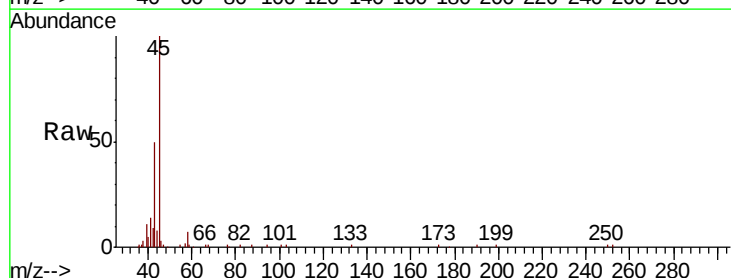
Acq: 7 Sep 2022 16:54

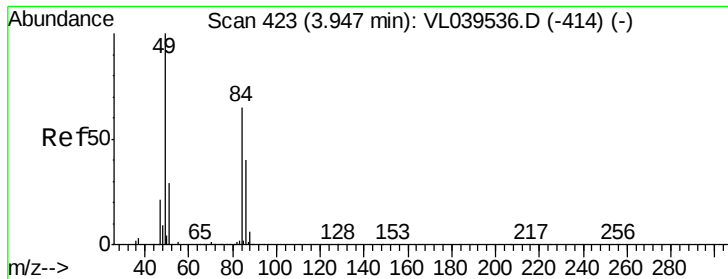
Tgt Ion: 45 Resp: 91762

Ion Ratio Lower Upper

45 100

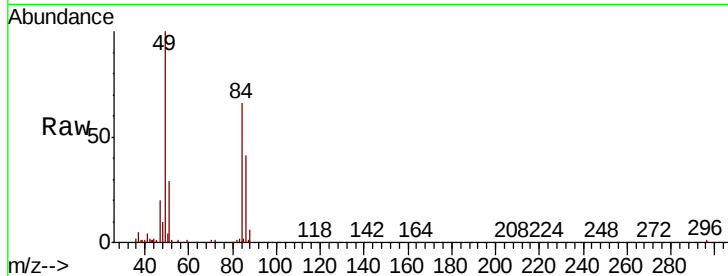
58 275.9 3.2 4.8#



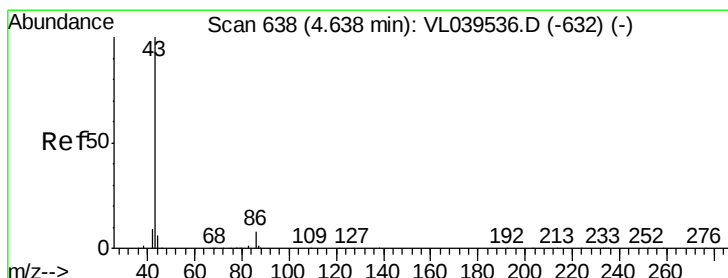
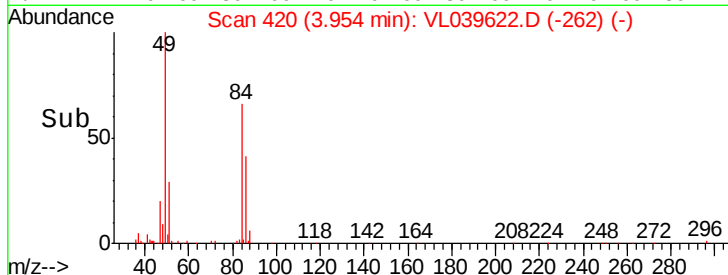
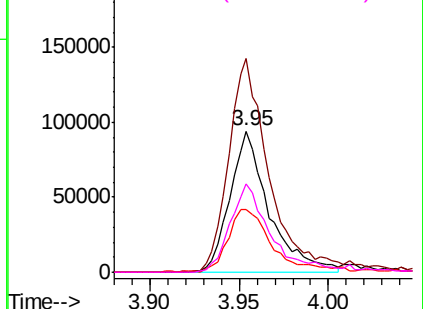


#20
Methvlene Chloride
Concen: 2.930 ppbv
RT: 3.95
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Sep 2022 16:54

Tot Ion:	84	Resp:	143203
Ion	Ratio	Lower	Upper
84	100		
49	151.2	123.1	184.7
51	44.0	34.4	51.6
86	62.8	51.1	76.7

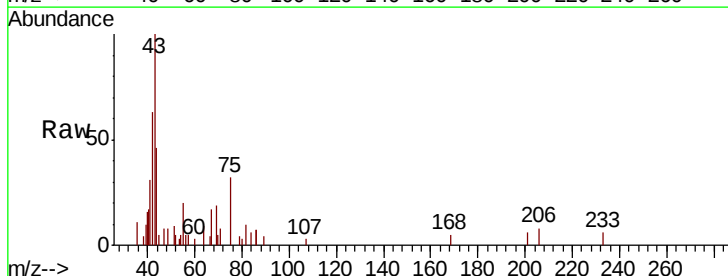


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

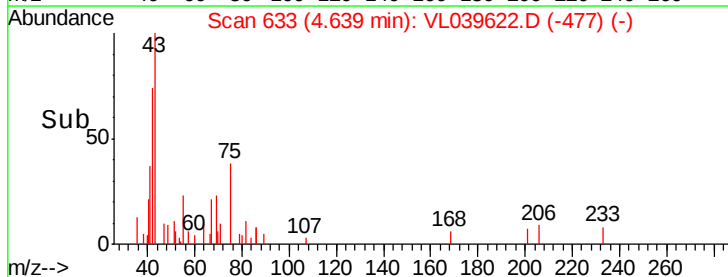
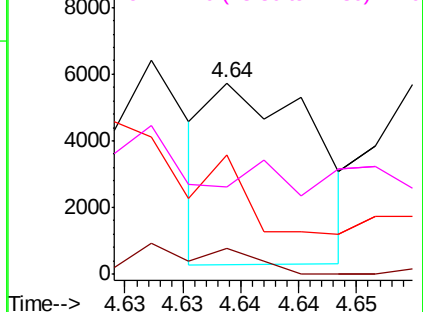


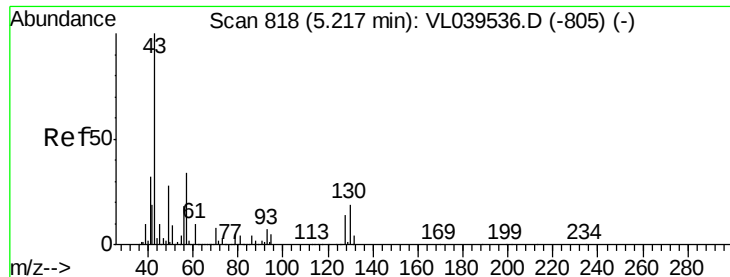
#23
Vinyl Acetate
Concen: 0.059 ppbv
RT: 4.64 min Scan# 633
Delta R.T. 0.00 min
Lab File: VL039622.D
Acq: 7 Sep 2022 16:54

Tgt Ion:	43	Resp:	3402
Ion	Ratio	Lower	Upper
43	100		
86	29.1	5.0	7.6#
42	89.8	7.7	11.5#
44	0.0	4.6	7.0#



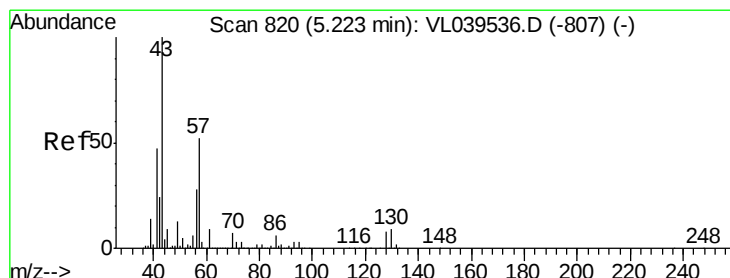
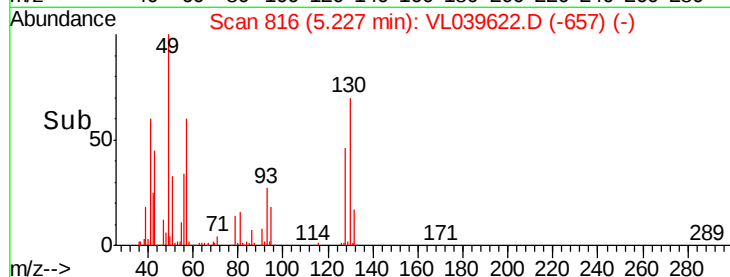
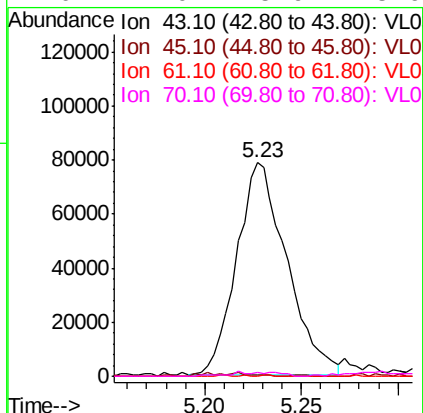
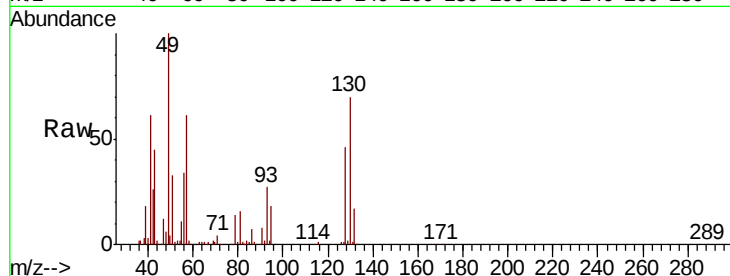
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0





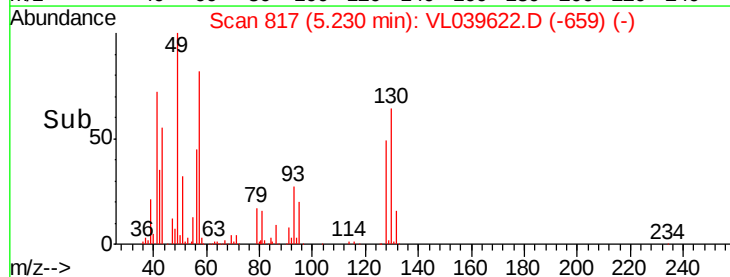
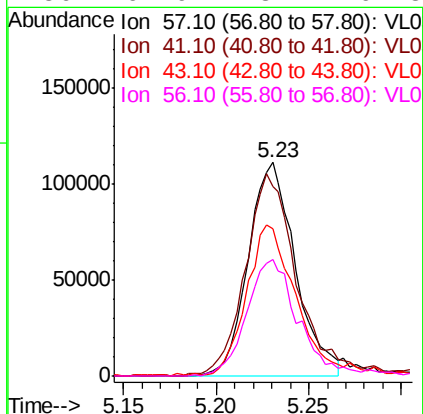
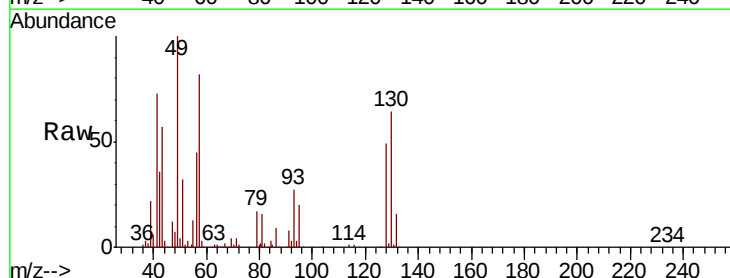
#25
Ethyl Acetate
Concen: 0.547 ppbv
RT: 5.23 min
Delta R.T.: 0.01 min
Lab File: VL039622.D
Acq: 7 Sep 2022 16:54

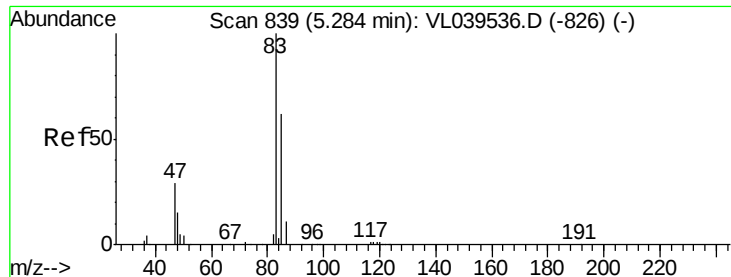
Tot Ion	43	Resp	140873
Ion	Ratio	Lower	Upper
43	100		
45	1.6	8.2	12.4#
61	0.5	8.3	12.5#
70	2.0	5.9	8.9#



#26
Hexane
Concen: 1.869 ppbv
RT: 5.23 min Scan# 817
Delta R.T.: 0.01 min
Lab File: VL039622.D
Acq: 7 Sep 2022 16:54

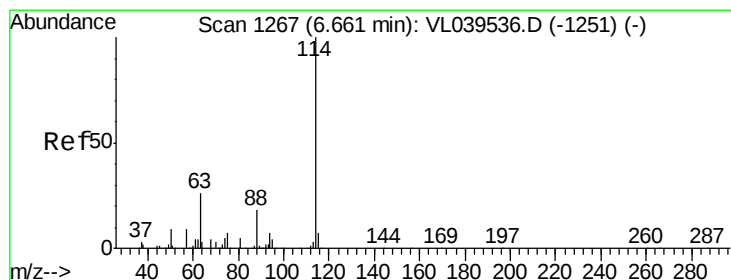
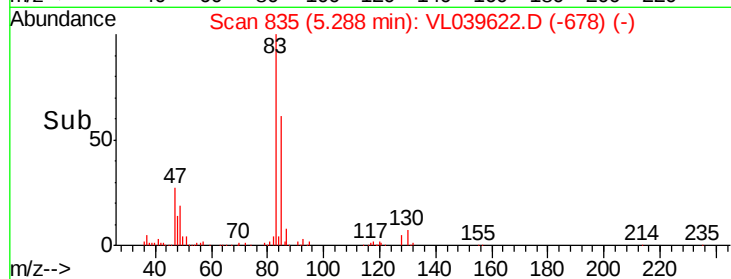
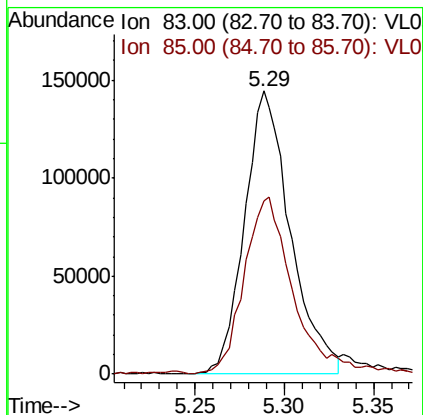
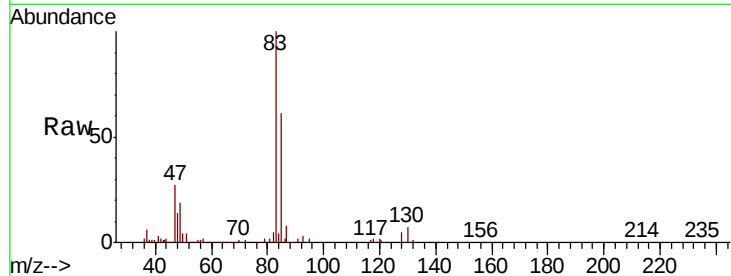
Tgt Ion	57	Resp	196391
Ion	Ratio	Lower	Upper
57	100		
41	107.6	76.9	115.3
43	77.6	191.0	286.6#
56	61.9	43.2	64.8





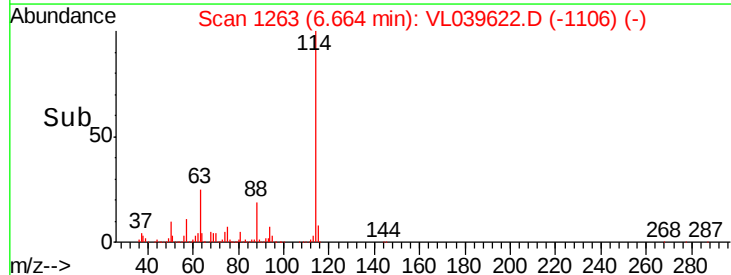
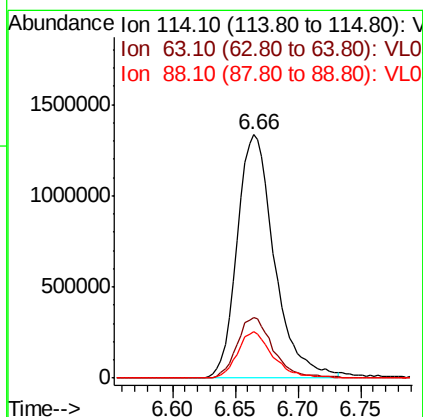
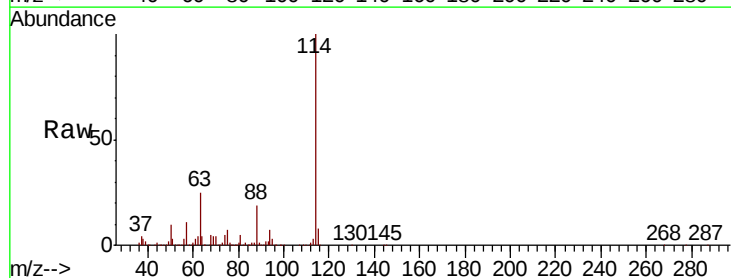
#29
Chloroform
Concen: 1.582 ppbv
RT: 5.29
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : SV-1
Acq: 7 Sep 2022 16:54

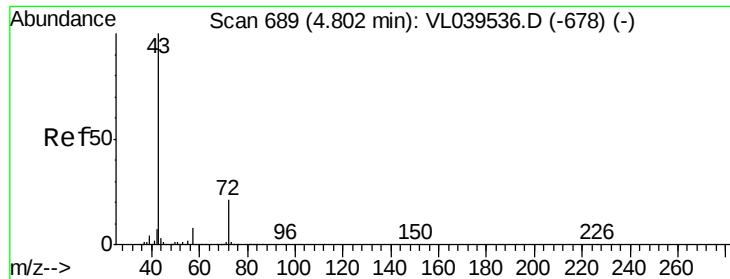
Tot Ion: 83 Resp: 259958
Ion Ratio Lower Upper
83 100
85 61.2 52.8 79.2



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 6.66 min Scan# 1263
Delta R.T.: 0.00 min
Lab File: VL039622.D
Acq: 7 Sep 2022 16:54

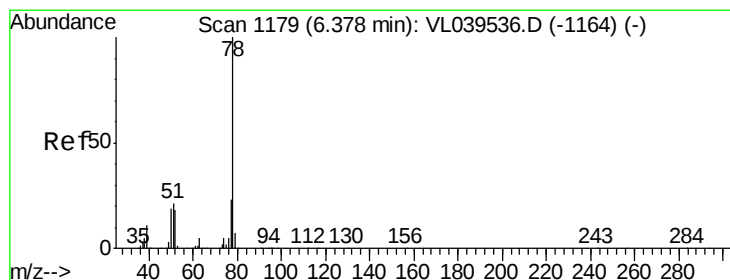
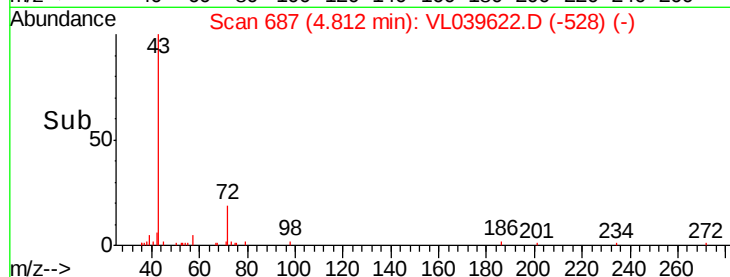
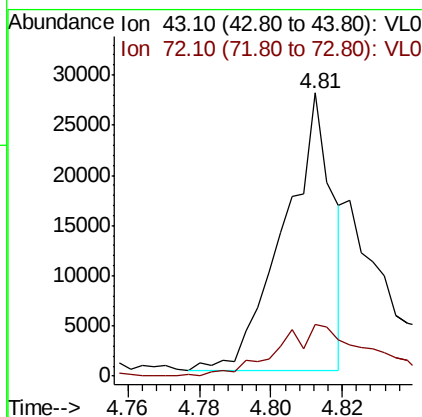
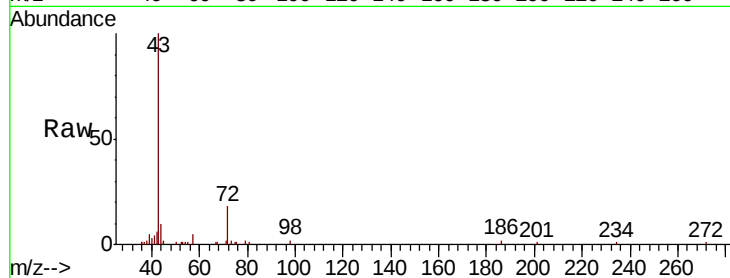
Tgt Ion: 114 Resp: 2754952
Ion Ratio Lower Upper
114 100
63 24.8 20.2 30.4
88 18.4 14.5 21.7





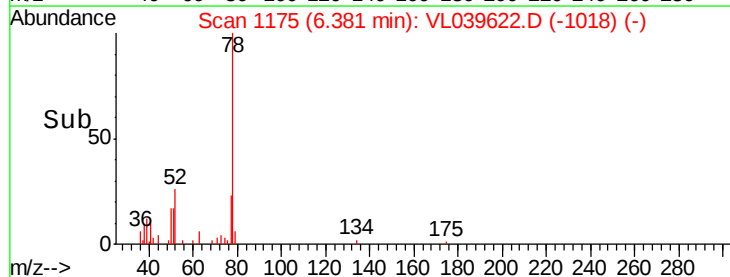
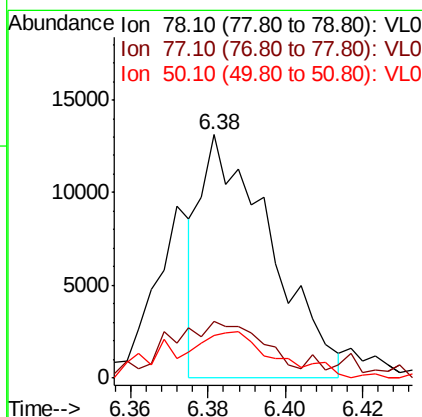
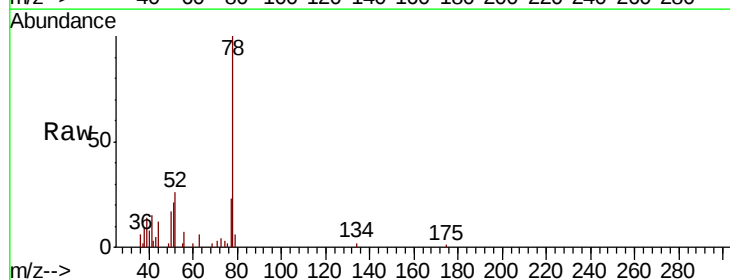
#34
 2-Butanone
 Concen: 0.191 ppbv
 RT: 4.81
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SV-1
 Acq: 7 Sep 2022 16:54

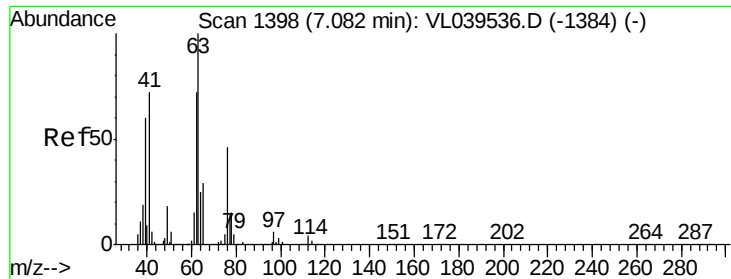
Tot Ion: 43 Resp: 26151
 Ion Ratio Lower Upper
 43 100
 72 39.2 17.9 26.9#



#36
 Benzene
 Concen: 0.078 ppbv
 RT: 6.38 min Scan# 1175
 Delta R.T. 0.00 min
 Lab File: VL039622.D
 Acq: 7 Sep 2022 16:54

Tgt Ion: 78 Resp: 16430
 Ion Ratio Lower Upper
 78 100
 77 19.9 20.3 30.5#
 50 17.4 15.5 23.3





#39

1,2-Dichloropropane

Concen: 8.283 ppbv

RT: 6.66 Instrument:

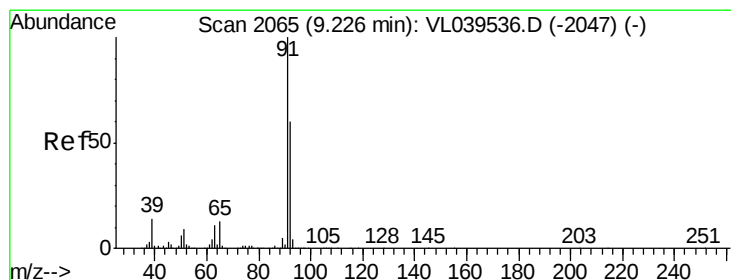
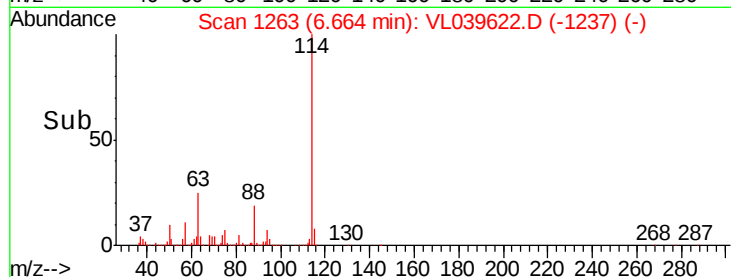
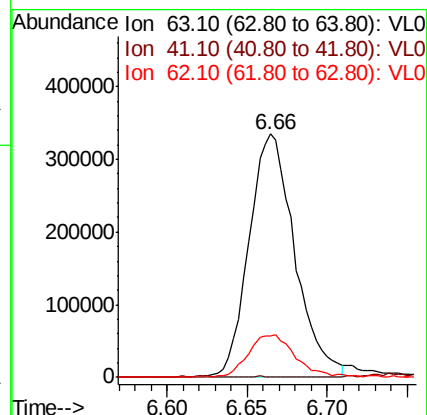
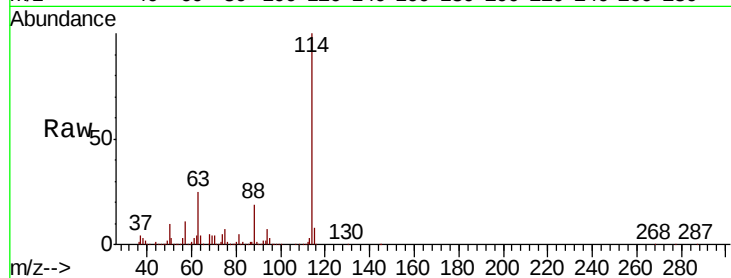
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Sep 2022 16:54 SV-1

Tot Ion: 63 Resp: 653968

Ion	Ratio	Lower	Upper
63	100		
41	0.0	59.6	89.4#
62	16.7	51.4	77.0#



#53

Toluene

Concen: 1.326 ppbv

RT: 9.23 min Scan# 2061

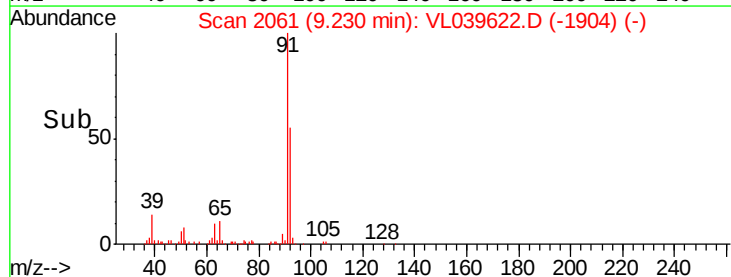
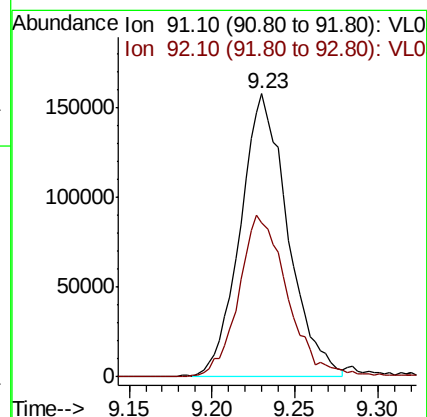
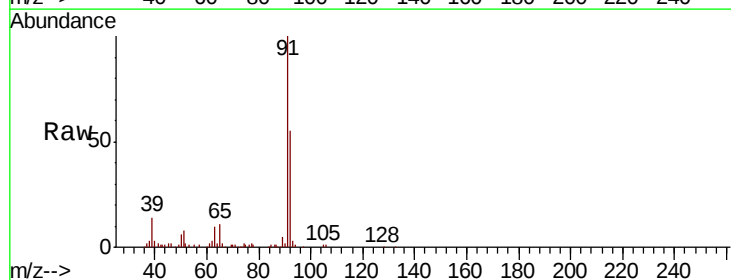
Delta R.T. 0.00 min

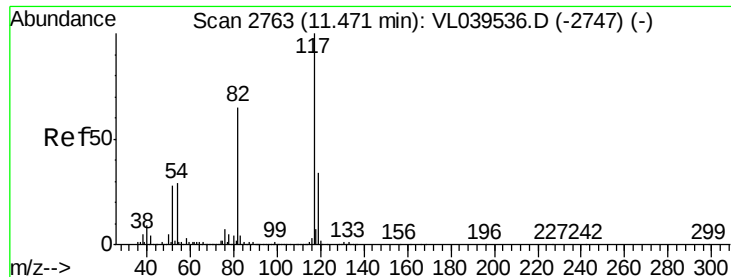
Lab File: VL039622.D

Acq: 7 Sep 2022 16:54

Tgt Ion: 91 Resp: 311751

Ion	Ratio	Lower	Upper
91	100		
92	60.2	48.2	72.2

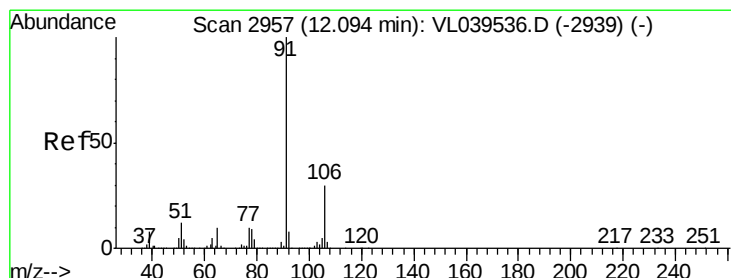
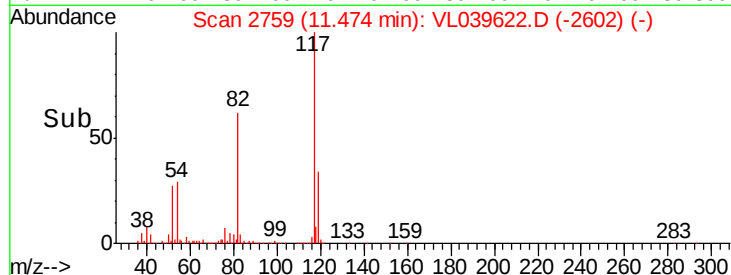
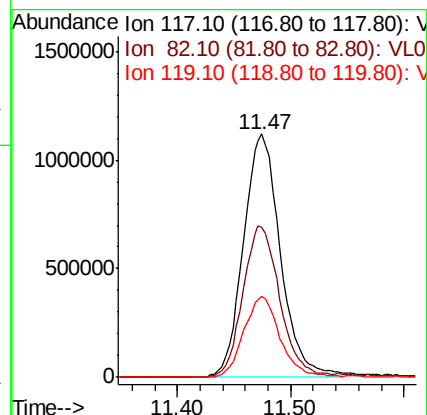
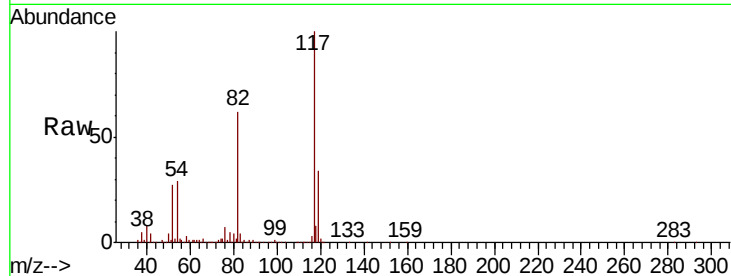




#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 11.47 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
SV-1
Acq: 7 Sep 2022 16:54

Tot Ion: 117 Resp: 2546142

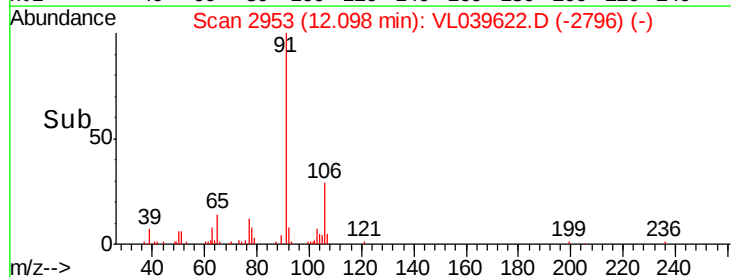
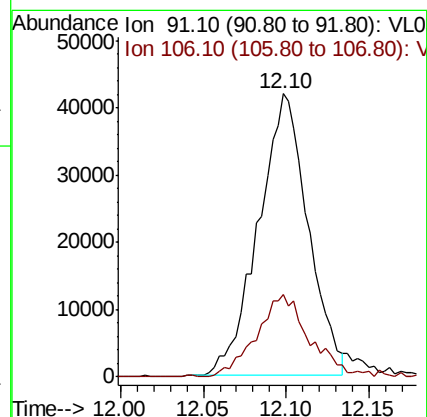
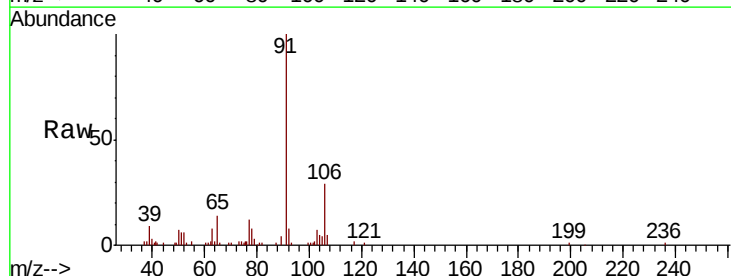
Ion	Ratio	Lower	Upper
117	100		
82	63.1	50.8	76.2
119	32.9	24.1	36.1

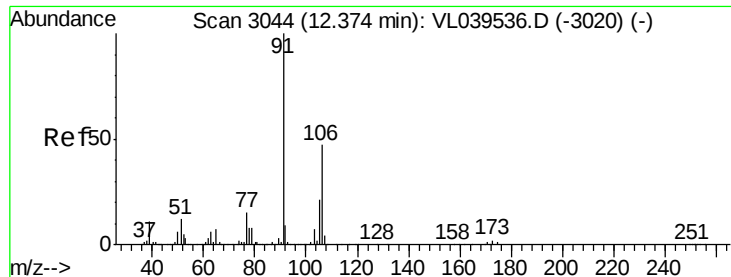


#58
Ethyl Benzene
Concen: 0.299 ppbv
RT: 12.10 min Scan# 2953
Delta R.T.: 0.00 min
Lab File: VL039622.D
Acq: 7 Sep 2022 16:54

Tgt Ion: 91 Resp: 87599

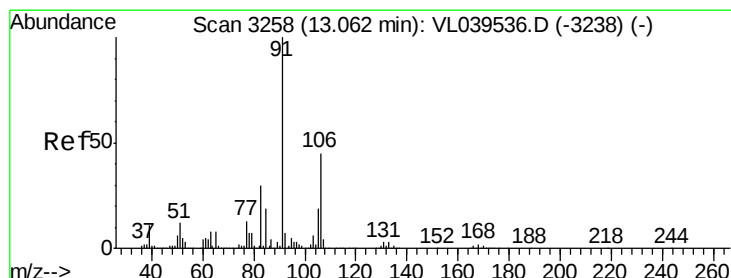
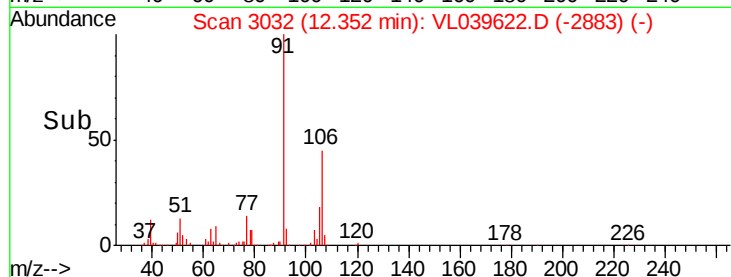
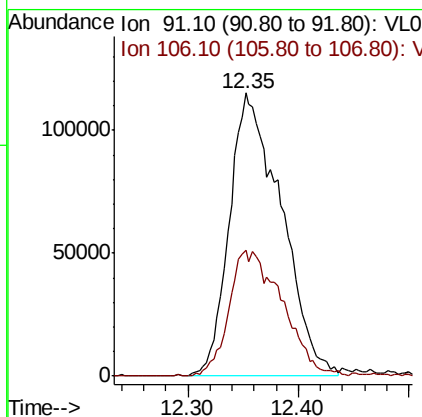
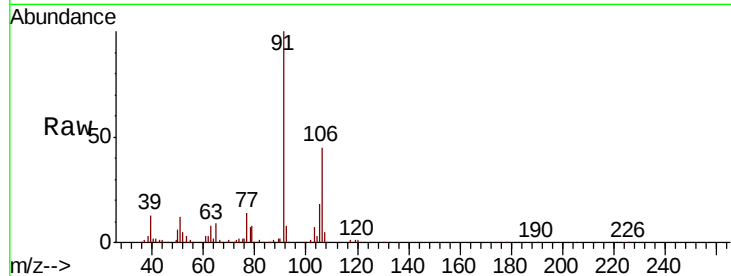
Ion	Ratio	Lower	Upper
91	100		
106	28.4	25.4	38.0





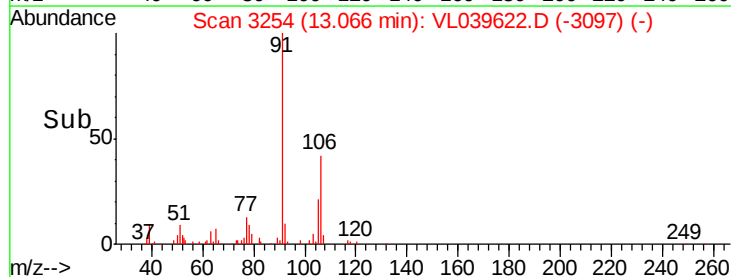
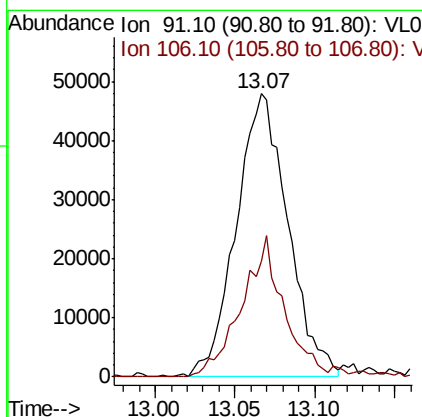
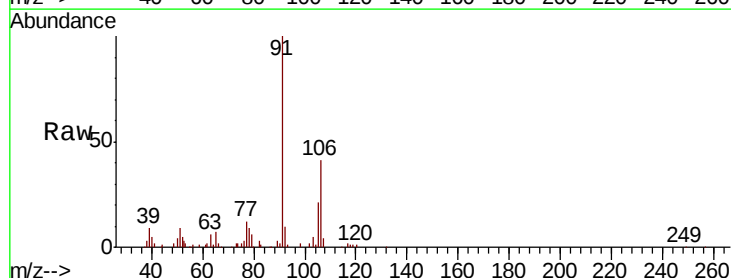
#59
m/p-Xylene
Concen: 1.427 ppbv
RT: 12.35 min
Delta R.T.: 0.00 min
Lab File: VL039622.D
Acq: 7 Sep 2022 16:54

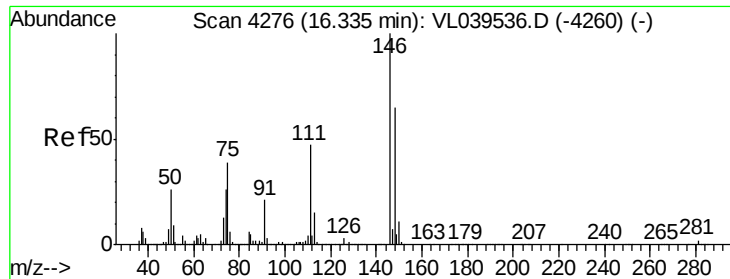
Tot Ion: 91 Resp: 374466
Ion Ratio Lower Upper
91 100
106 46.6 35.4 53.2



#60
o-Xylene
Concen: 0.419 ppbv
RT: 13.07 min Scan# 3254
Delta R.T.: 0.00 min
Lab File: VL039622.D
Acq: 7 Sep 2022 16:54

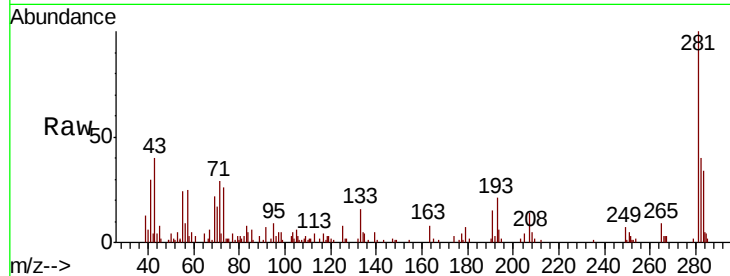
Tgt Ion: 91 Resp: 105546
Ion Ratio Lower Upper
91 100
106 43.0 22.4 67.3



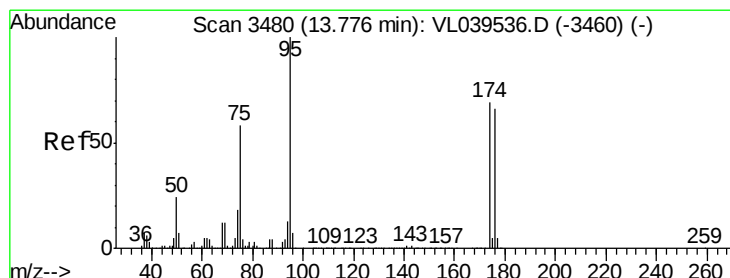
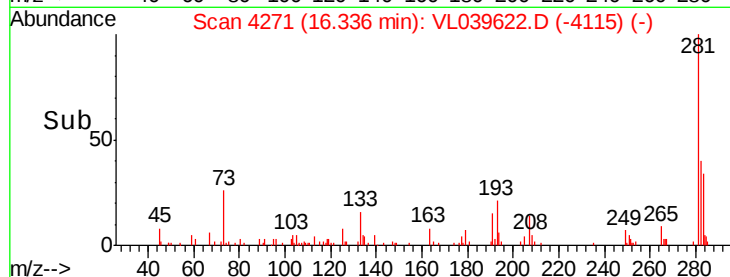
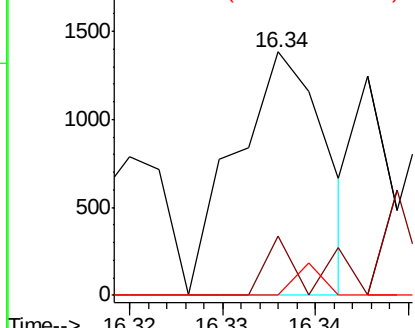


#66
Benzyl Chloride
Concen: 0.034 ppbv
RT: 16.34 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId : SV-1
Acq: 7 Sep 2022 16:54

Tot Ion	91	Resp	929
Ion	Ratio	Lower	Upper
91	100		
126	0.0	13.1	19.7#
128	0.0	4.4	6.6#

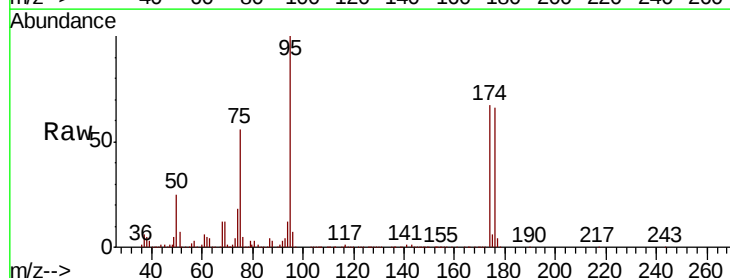


Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 126.10 (125.80 to 126.80): V
Ion 128.10 (127.80 to 128.80): V

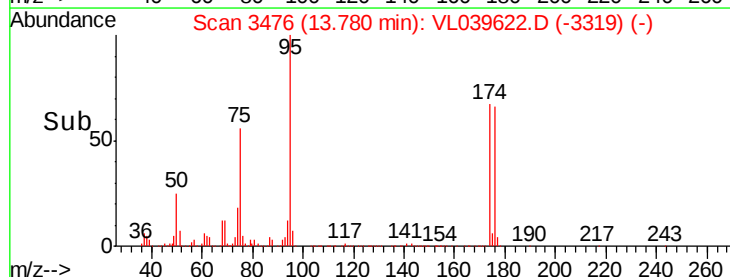
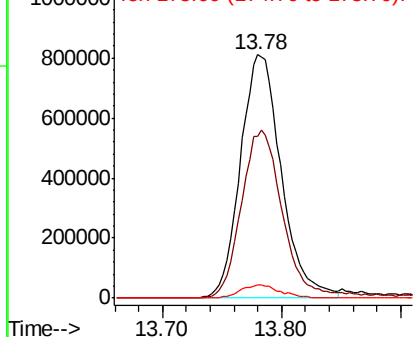


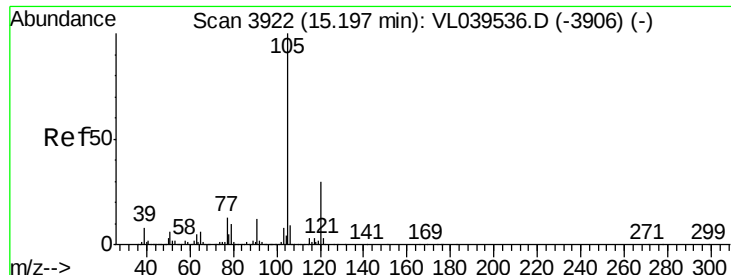
#68
1-Bromo-4-Fluorobenzene
Concen: 10.055 ppbv
RT: 13.78 min Scan# 3476
Delta R.T.: 0.00 min
Lab File: VL039622.D
Acq: 7 Sep 2022 16:54

Tgt Ion	95	Resp	1931506
Ion	Ratio	Lower	Upper
95	100		
174	72.3	55.9	83.9
175	5.5	4.2	6.4



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





#72

4-Ethyltoluene

Concen: 0.226 ppbv

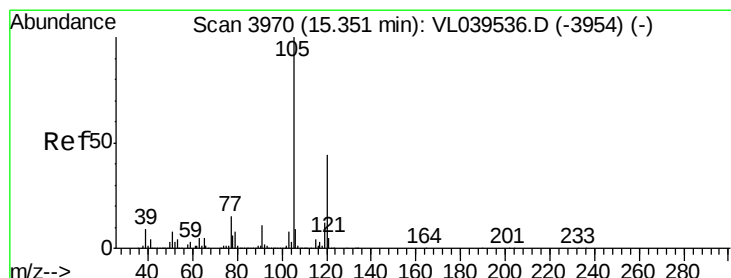
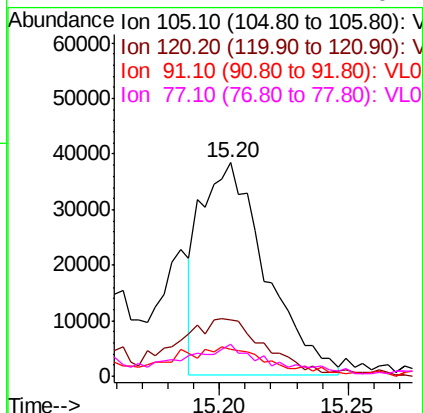
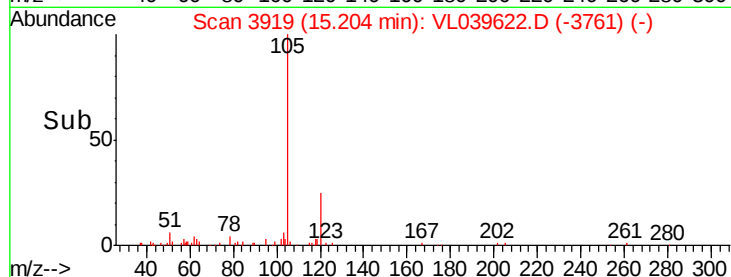
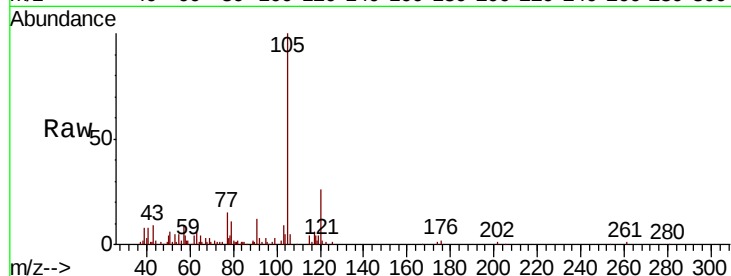
RT: 15.20

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 7 Sep 2022 16:54

Tot Ion:	105	Resp:	66646
Ion	Ratio	Lower	Upper
105	100		
120	34.5	24.2	36.2
91	17.1	10.2	15.4#
77	21.1	11.1	16.7#



#73

1,3,5-Trimethylbenzene

Concen: 0.149 ppbv

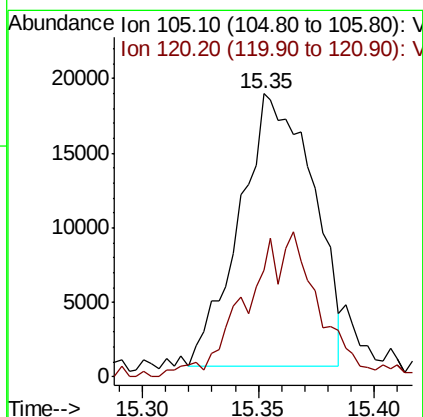
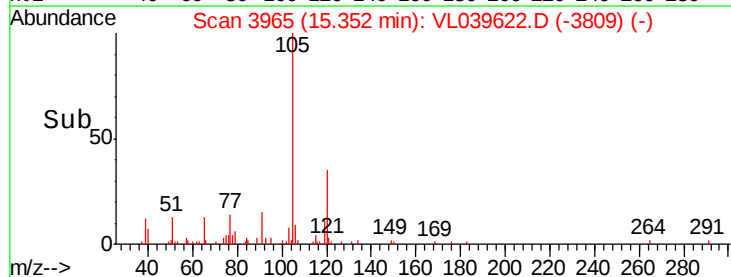
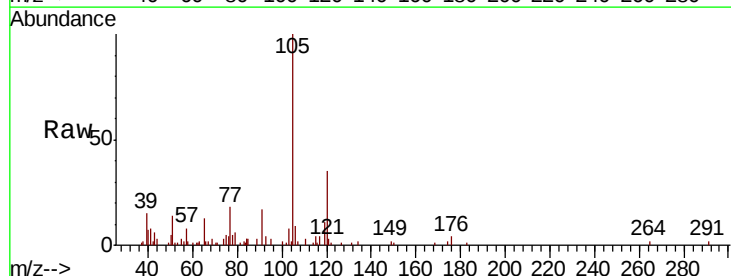
RT: 15.35 min Scan# 3965

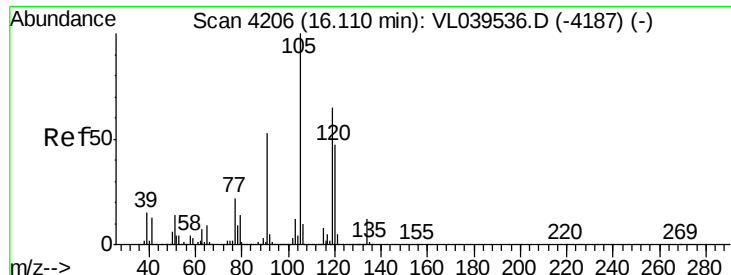
Delta R.T. 0.00 min

Lab File: VL039622.D

Acq: 7 Sep 2022 16:54

Tgt Ion:	105	Resp:	40152
Ion	Ratio	Lower	Upper
105	100		
120	34.7	38.2	57.4#





#74
 1,2,4-Trimethylbenzene
 Concen: 0.863 ppbv
 RT: 16.11
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId : SV-1
 Acq: 7 Sep 2022 16:34

Tot Ion:	105	Resp:	258750
Ion Ratio	Lower	Upper	
105	100		
120	38.8	39.5	59.3#
91	9.6	39.2	58.8#
77	13.4	17.2	25.8#

