

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040722\
 Data File : VL038840.D
 Acq On : 7 Apr 2022 14:18
 Operator : SY/AP
 Sample : N2245-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BD-INDOORDUP

Quant Time: Apr 08 05:23:22 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
 QLast Update : Wed Apr 06 06:12:53 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1267687	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	3331456	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.10	117	2890307	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2245661	10.24	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.40%

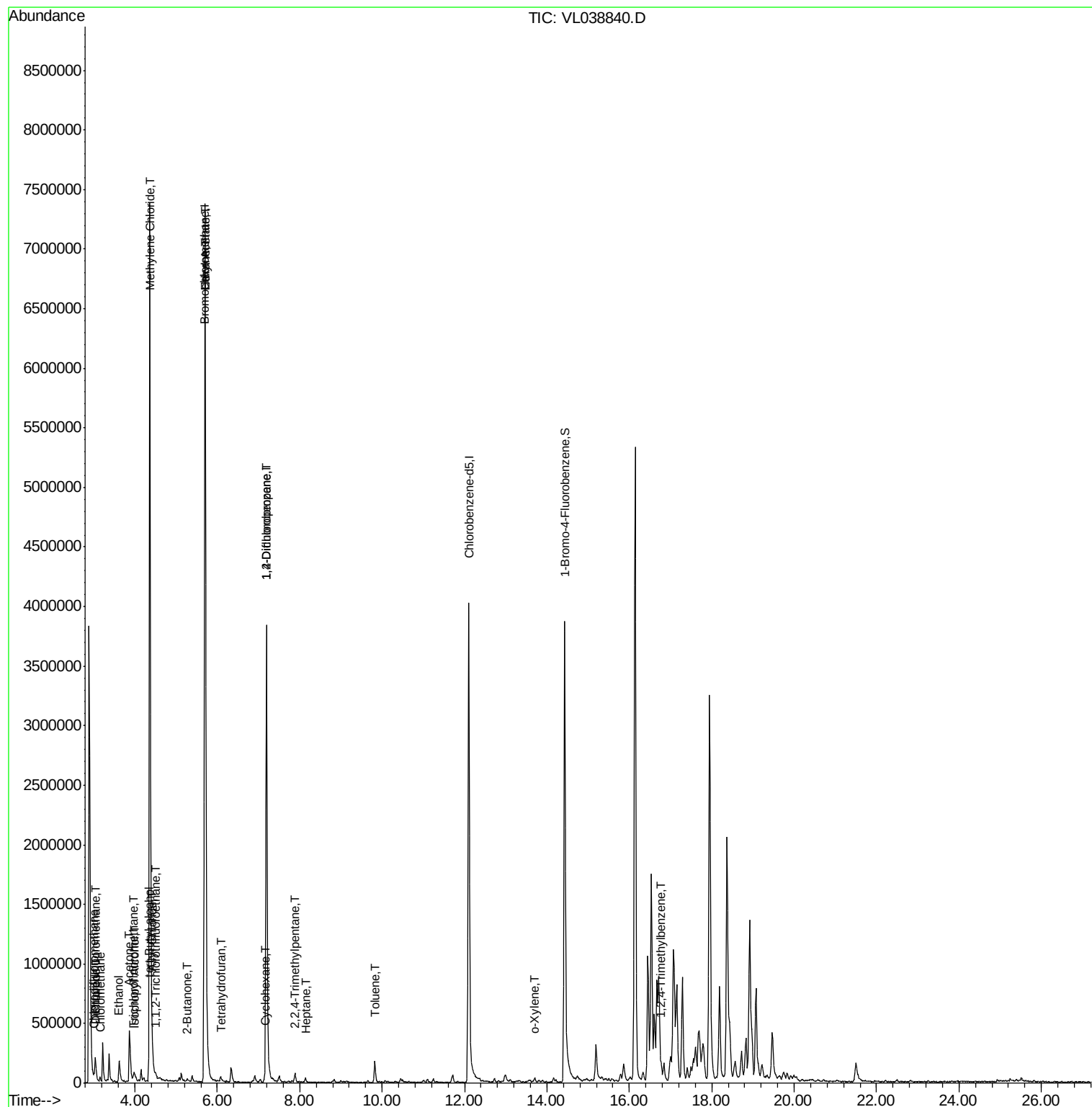
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	53224	0.296	ppbv 97
3) Chlorodifluoromethane	3.01	51	96599	0.624	ppbv # 87
4) Chloromethane	3.16	50	39893	0.498	ppbv 94
9) Propene	3.03	41	51171	0.625	ppbv # 80
10) Heptane	8.14	43	6306	0.031	ppbv # 1
11) Trichlorofluoromethane	3.97	101	39018	0.270	ppbv # 83
12) 1,1,2-Trichlorotrifluoroet	4.50	101	3854	0.035	ppbv # 12
13) Ethanol	3.62	45	229442	46.125	ppbv # 100
15) Acetone	3.86	43	582144	4.613	ppbv 97
17) tert-Butyl alcohol	4.33	59	4646	0.041	ppbv # 72
19) Isopropyl Alcohol	4.00	45	19488	0.302	ppbv # 100
20) Methylene Chloride	4.36	84	3158831	69.012	ppbv 95
21) Allyl Chloride	4.42	41	3653	0.039	ppbv # 46
25) Ethyl Acetate	5.70	43	2393697	7.475	ppbv # 76
26) Hexane	5.71	57	3341842	22.926	ppbv # 39
30) Cyclohexane	7.15	84	6237	0.049	ppbv # 1
34) 2-Butanone	5.26	43	23515	0.179	ppbv # 66
39) 1,2-Dichloropropane	7.19	63	847937	7.315	ppbv # 27
41) Tetrahydrofuran	6.08	42	16197	0.130	ppbv # 50
44) 2,2,4-Trimethylpentane	7.89	57	67800	0.132	ppbv # 82
53) Toluene	9.83	91	126435	0.361	ppbv 97
60) o-Xylene	13.71	91	12492	0.037	ppbv # 22
74) 1,2,4-Trimethylbenzene	16.78	105	73487	0.191	ppbv # 70

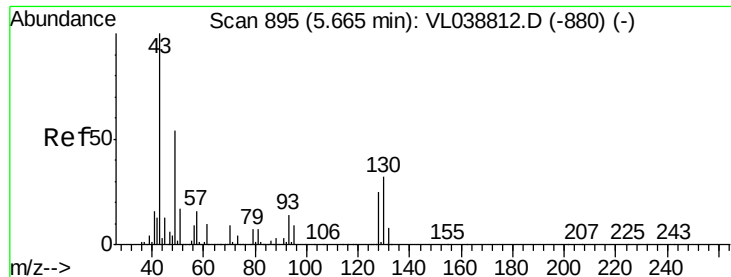
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Apr 06 06:12:53 2022
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_1

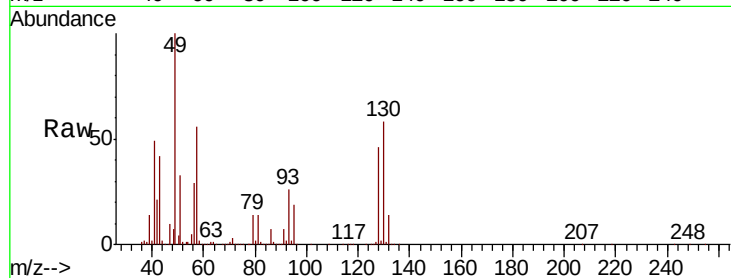
Delta R.T.

Lab File: ClientSampleId:

Acq: 7 Apr 2022 14:18 BD-INDOORDUP

Tot Ion: 49 Resp: 1267687

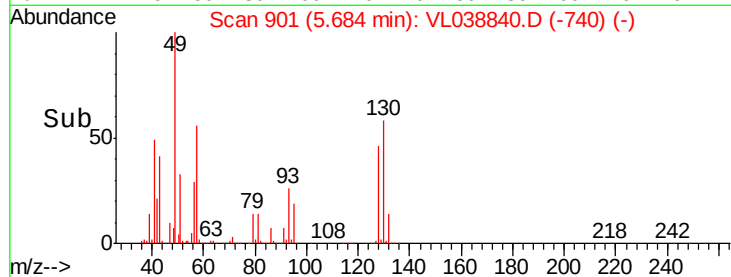
Ion	Ratio	Lower	Upper
49	100		
128	46.2	24.1	72.3
130	58.8	30.9	92.8



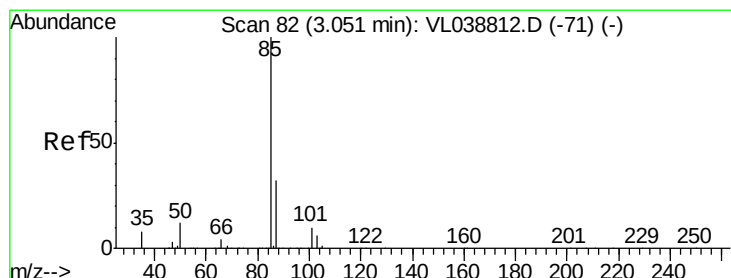
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



Time-->



#2

Dichlorodifluoromethane

Concen: 0.296 ppbv

RT: 3.06 min Scan# 86

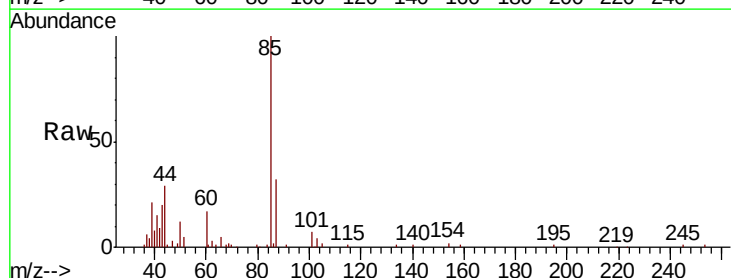
Delta R.T. 0.01 min

Lab File: VL038840.D

Acq: 7 Apr 2022 14:18

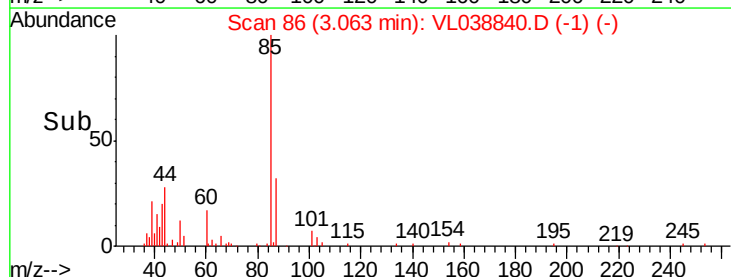
Tgt Ion: 85 Resp: 53224

Ion	Ratio	Lower	Upper
85	100		
87	30.9	25.9	38.9

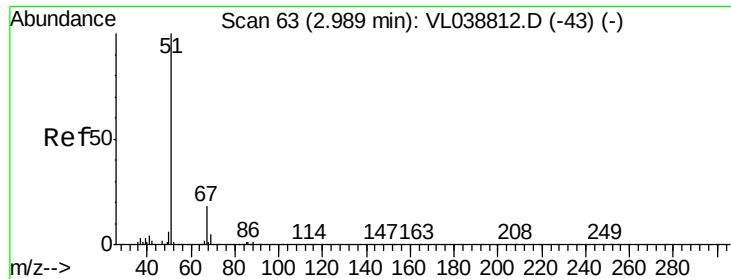


Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

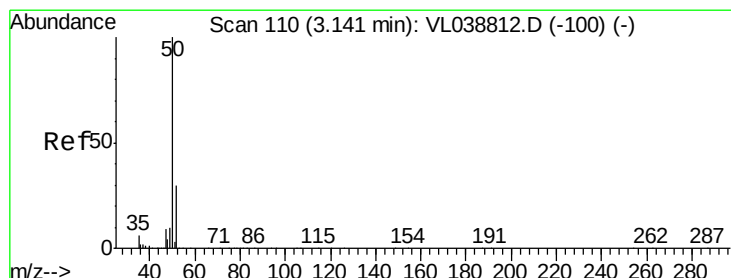
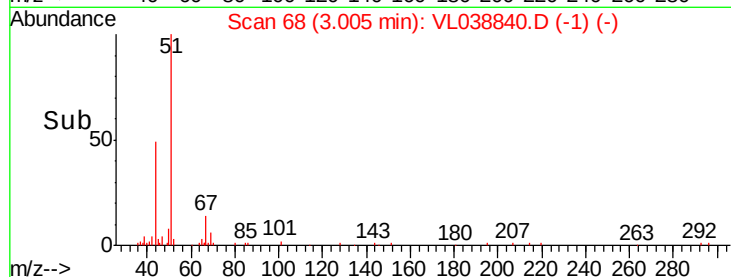
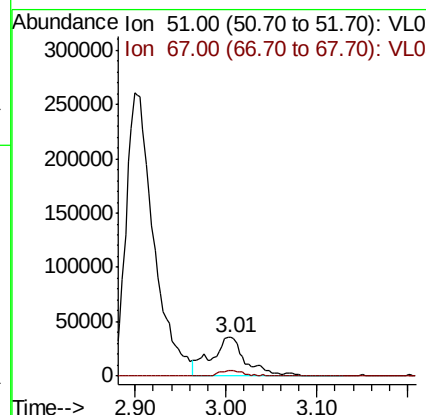
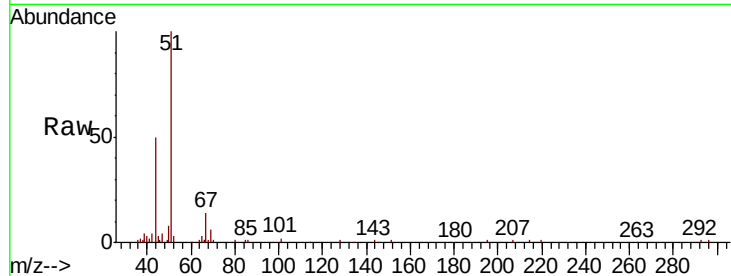


Time-->



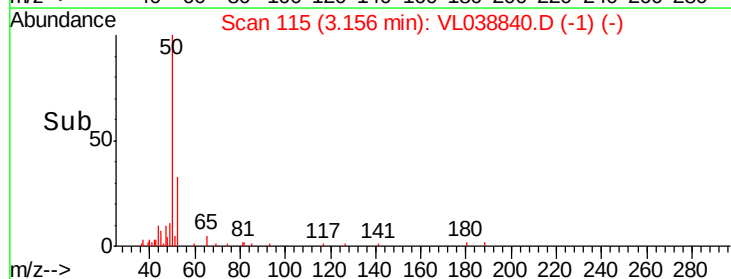
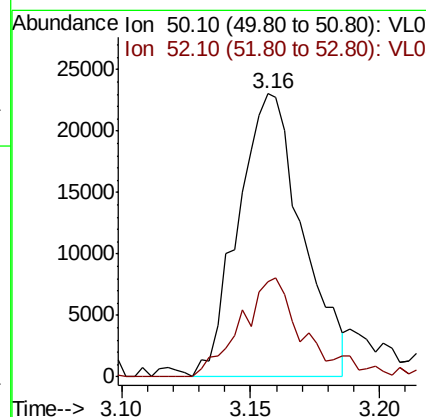
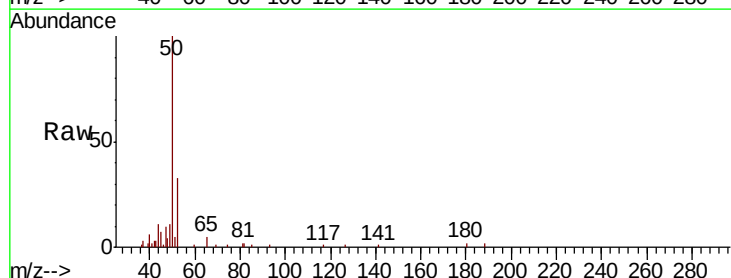
#3
 Chlorodifluoromethane
 Concen: 0.624 ppbv
 RT: 3.01
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 BD-INDOORDUP
 Acq: 7 Apr 2022 14:18

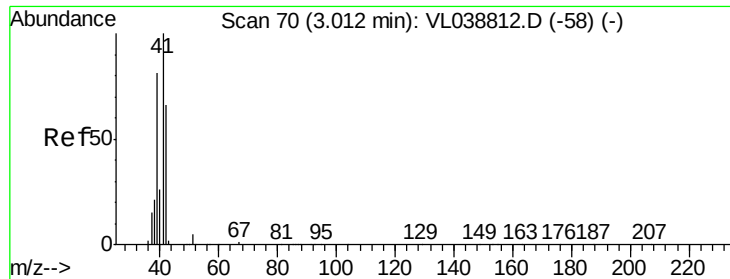
Tot Ion: 51 Resp: 96599
 Ion Ratio Lower Upper
 51 100
 67 11.0 13.4 20.0#



#4
 Chloromethane
 Concen: 0.498 ppbv
 RT: 3.16 min Scan# 115
 Delta R.T. 0.02 min
 Lab File: VL038840.D
 Acq: 7 Apr 2022 14:18

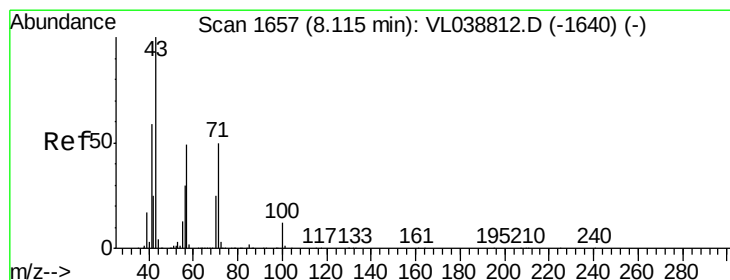
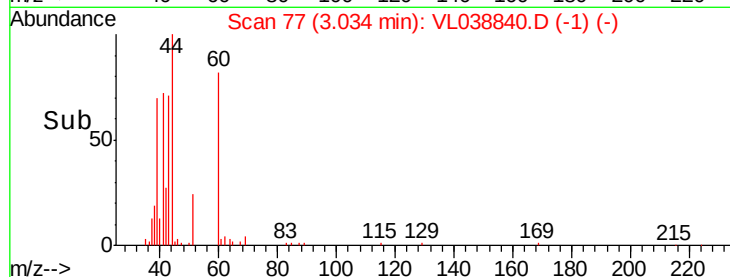
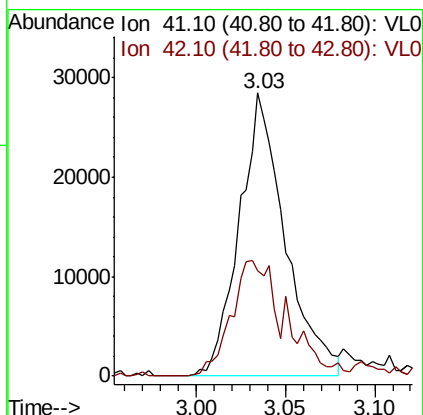
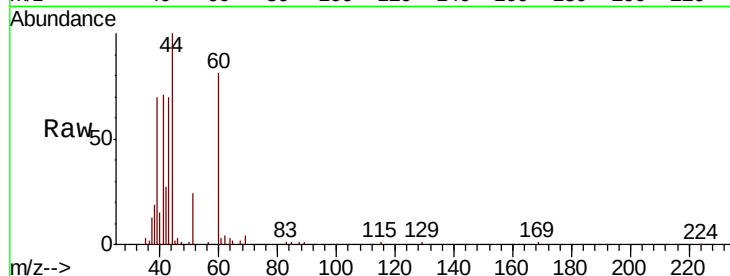
Tgt Ion: 50 Resp: 39893
 Ion Ratio Lower Upper
 50 100
 52 33.5 24.3 36.5





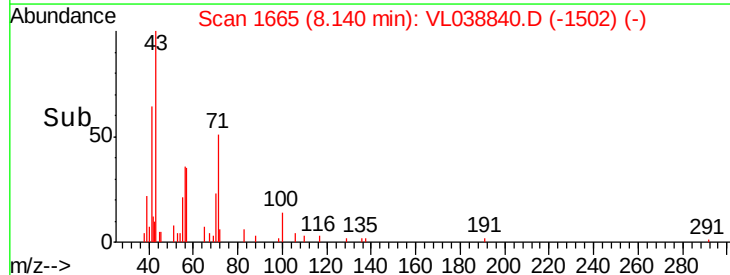
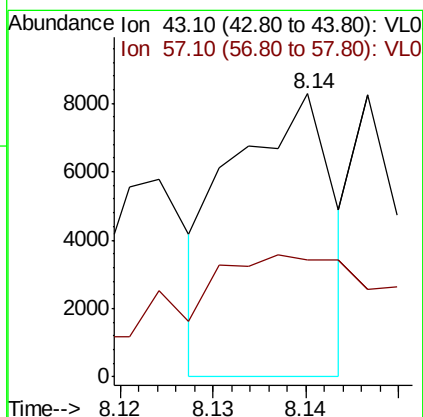
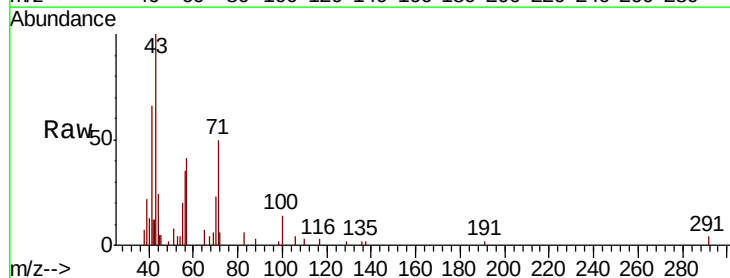
#9
 Propene
 Concen: 0.625 ppbv
 RT: 3.03
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Apr 2022 14:18

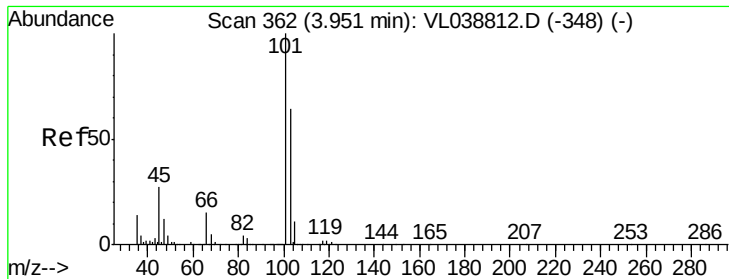
Tot Ion: 41 Resp: 51171
 Ion Ratio Lower Upper
 41 100
 42 51.6 54.2 81.4#



#10
 Heptane
 Concen: 0.031 ppbv
 RT: 8.14 min Scan# 1665
 Delta R.T. 0.03 min
 Lab File: VL038840.D
 Acq: 7 Apr 2022 14:18

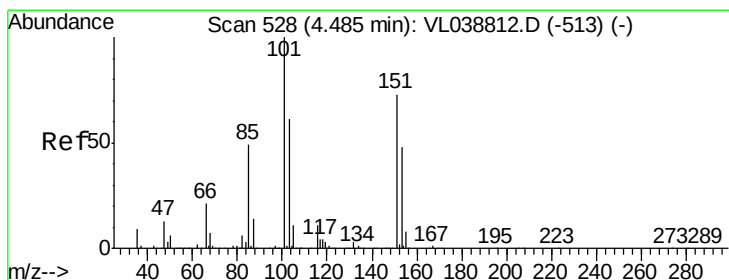
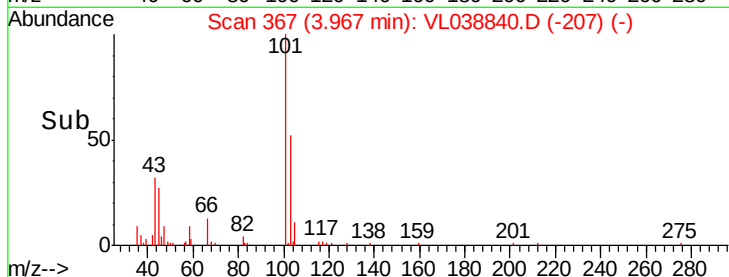
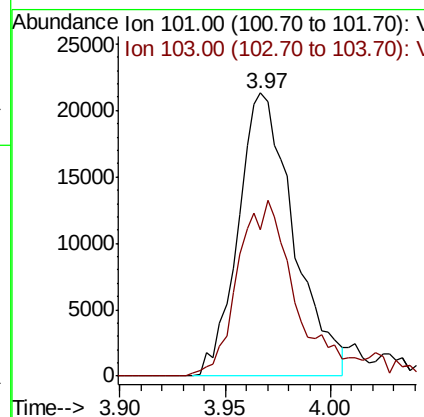
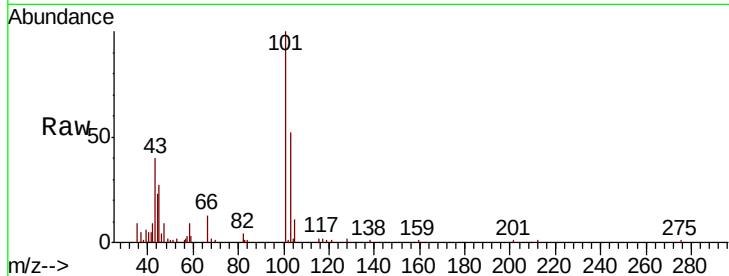
Tgt Ion: 43 Resp: 6306
 Ion Ratio Lower Upper
 43 100
 57 135.2 39.3 58.9#





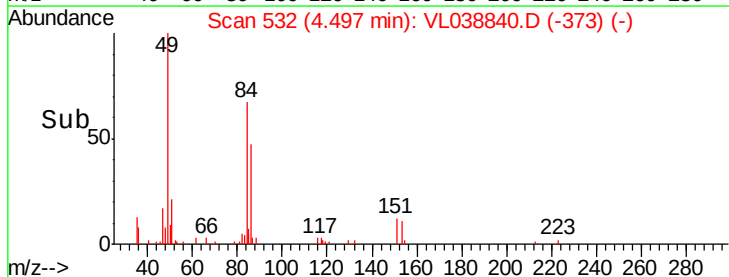
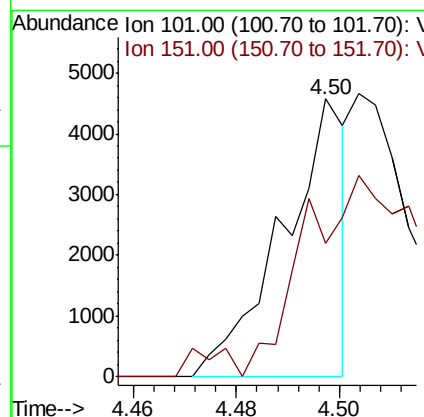
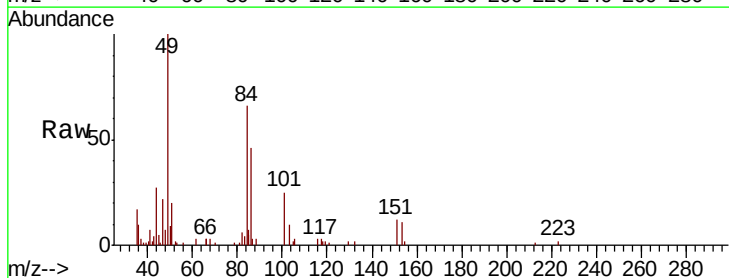
#11
 Trichlorofluoromethane
 Concen: 0.270 ppbv
 RT: 3.97
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 BD-INDOORDUP
 Acq: 7 Apr 2022 14:18

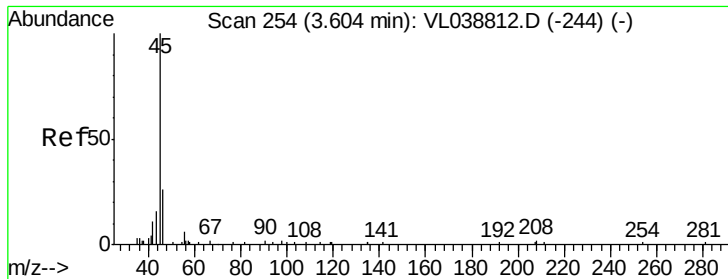
Tot Ion:101 Resp: 39018
 Ion Ratio Lower Upper
 101 100
 103 50.5 51.4 77.0#



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.035 ppbv
 RT: 4.50 min Scan# 532
 Delta R.T. 0.01 min
 Lab File: VL038840.D
 Acq: 7 Apr 2022 14:18

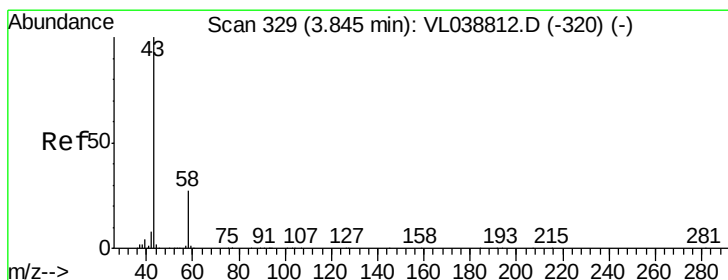
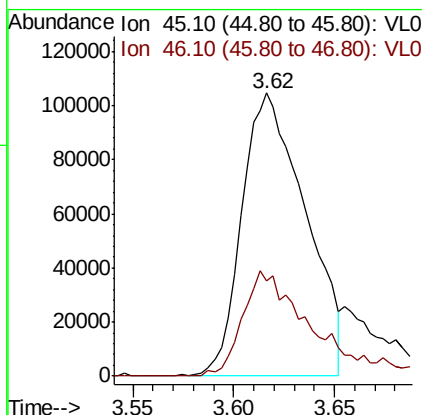
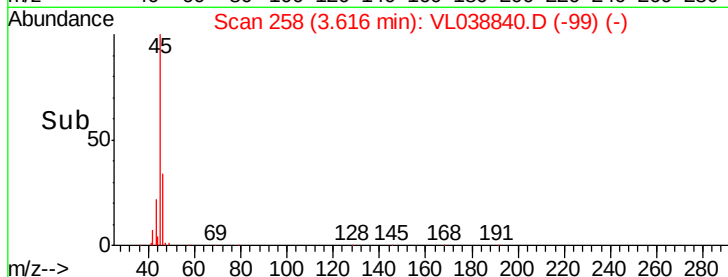
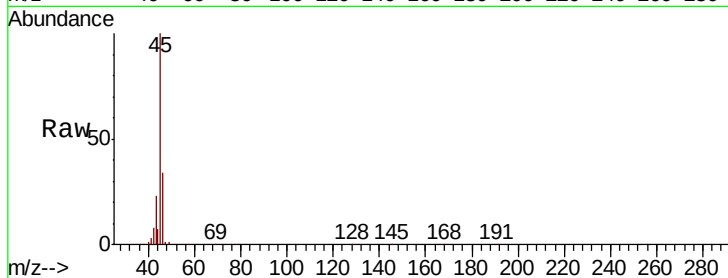
Tgt Ion:101 Resp: 3854
 Ion Ratio Lower Upper
 101 100
 151 0.0 59.9 89.9#





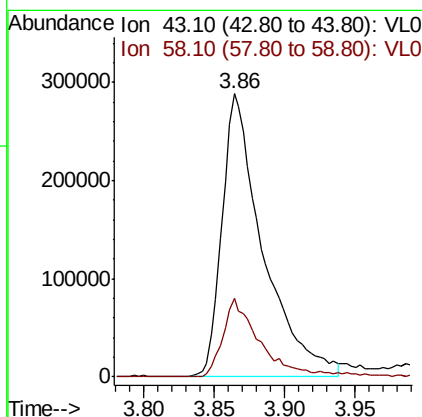
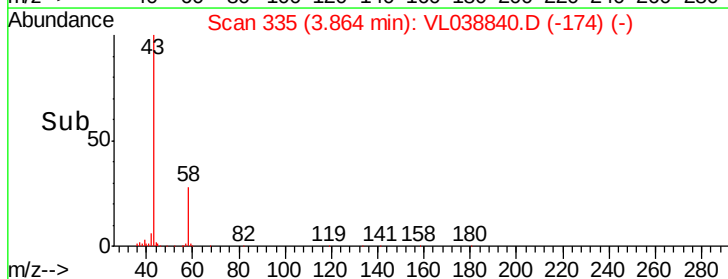
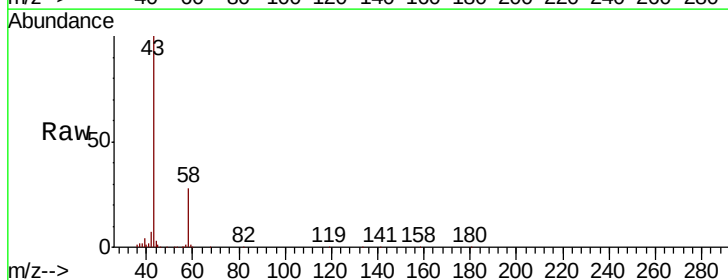
#13
Ethanol
Concen: 46.125 ppbv
RT: 3.62
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Apr 2022 14:18

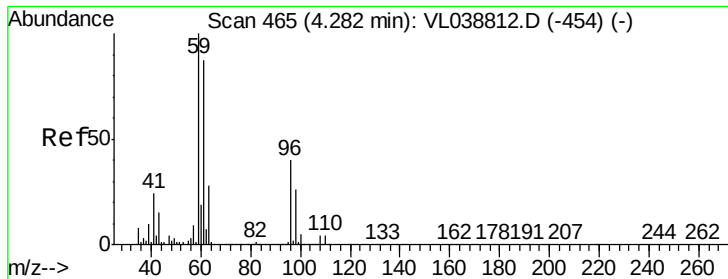
Tot Ion: 45 Resp: 229442
Ion Ratio Lower Upper
45 100
46 42.6 0.0 0.0#



#15
Acetone
Concen: 4.613 ppbv
RT: 3.86 min Scan# 335
Delta R.T. 0.02 min
Lab File: VL038840.D
Acq: 7 Apr 2022 14:18

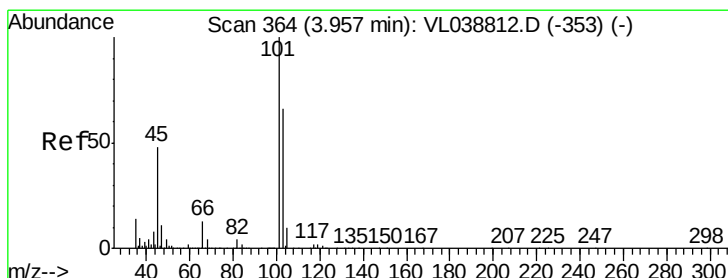
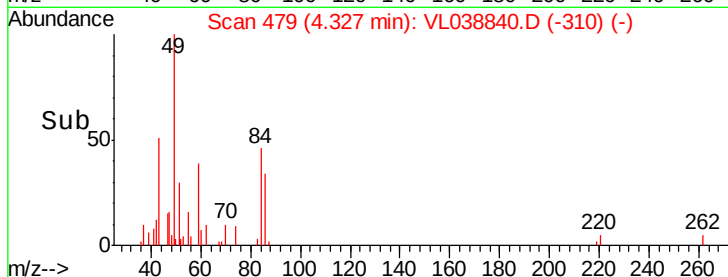
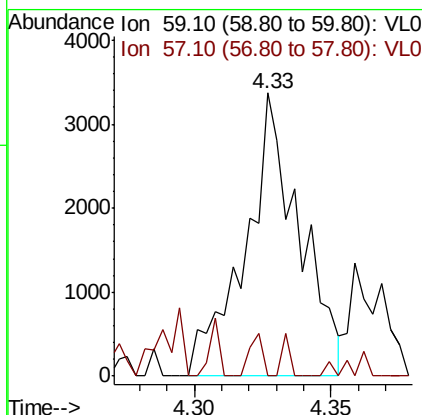
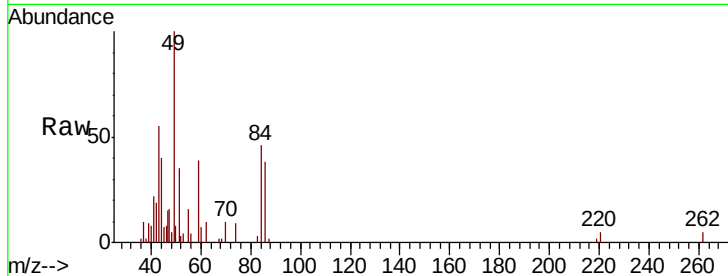
Tgt Ion: 43 Resp: 582144
Ion Ratio Lower Upper
43 100
58 26.3 22.5 33.7





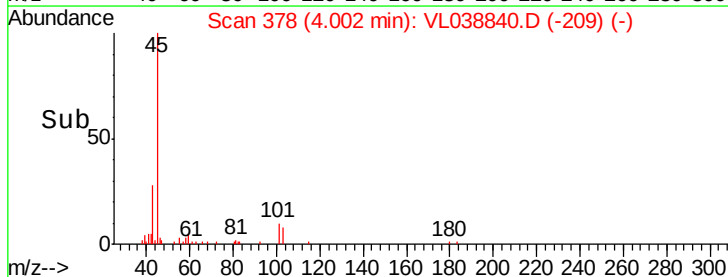
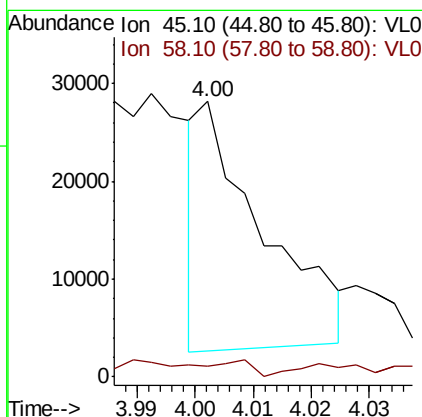
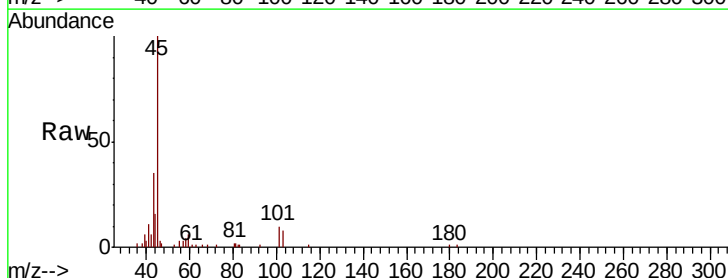
#17
 tert-Butyl alcohol
 Concen: 0.041 ppbv
 RT: 4.33
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Apr 2022 14:18

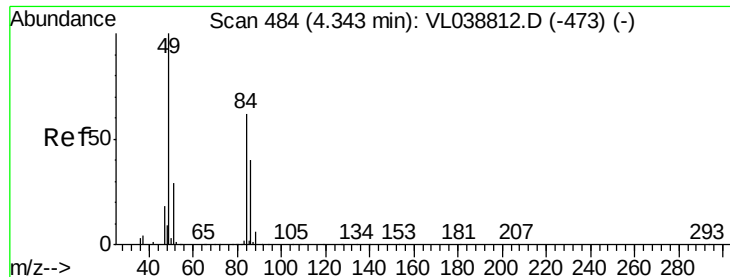
Tot Ion: 59 Resp: 4646
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#



#19
 Isopropyl Alcohol
 Concen: 0.302 ppbv
 RT: 4.00 min Scan# 378
 Delta R.T. 0.04 min
 Lab File: VL038840.D
 Acq: 7 Apr 2022 14:18

Tgt Ion: 45 Resp: 19488
 Ion Ratio Lower Upper
 45 100
 58 0.0 0.0 0.0

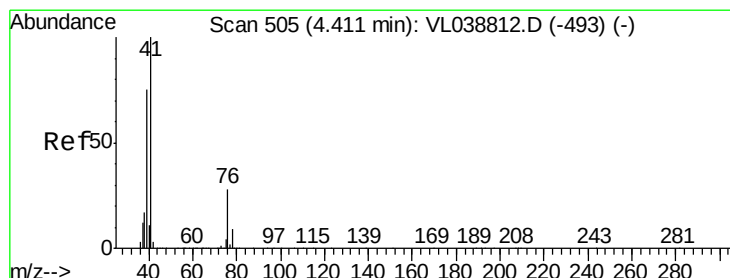
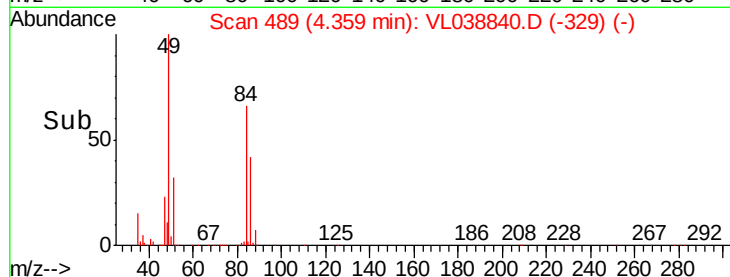
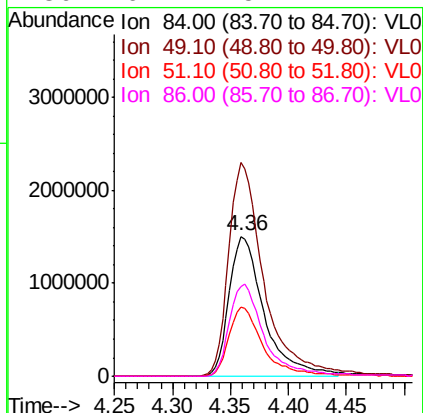
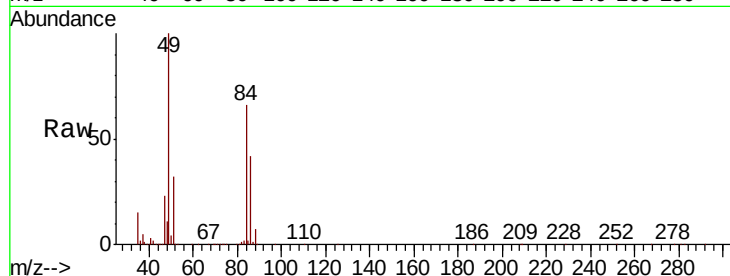




#20
Methylene Chloride
Concen: 69.012 ppbv
RT: 4.36
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Apr 2022 14:18

Tot Ion: 84 Resp: 3158831

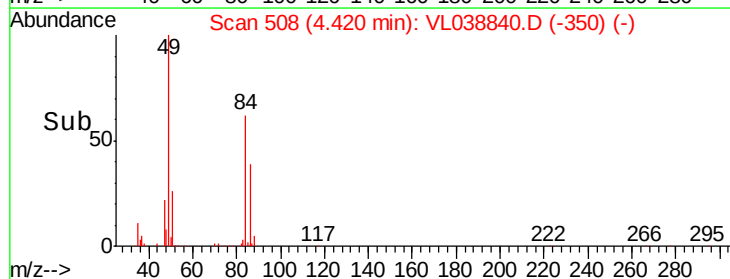
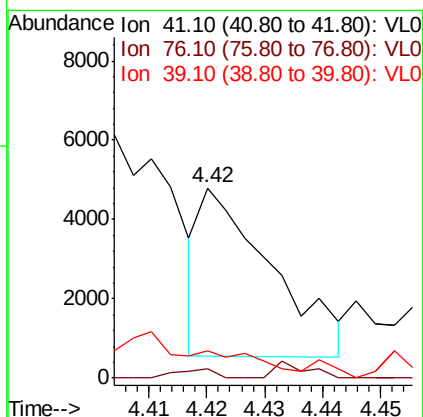
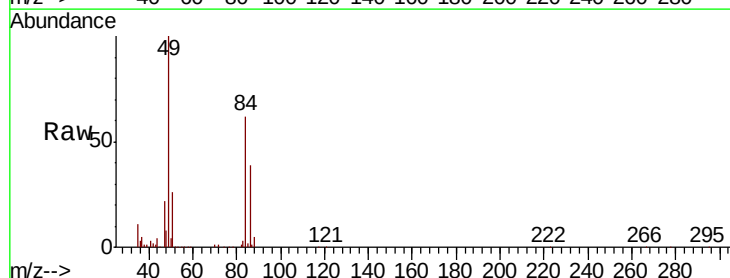
Ion	Ratio	Lower	Upper
84	100		
49	152.5	129.4	194.0
51	49.3	37.4	56.2
86	64.2	51.4	77.2

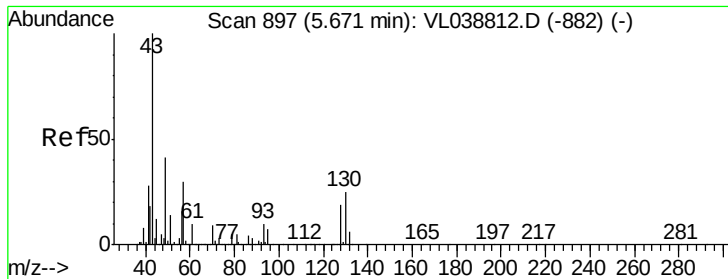


#21
Allyl Chloride
Concen: 0.039 ppbv
RT: 4.42 min Scan# 508
Delta R.T. 0.01 min
Lab File: VL038840.D
Acq: 7 Apr 2022 14:18

Tgt Ion: 41 Resp: 3653

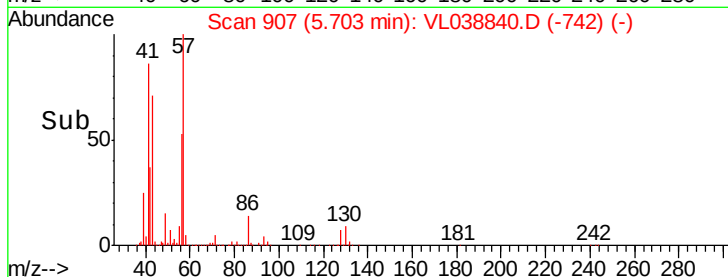
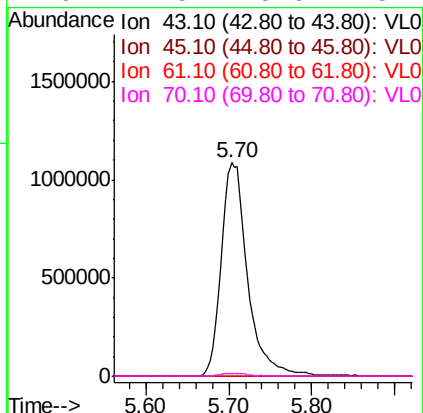
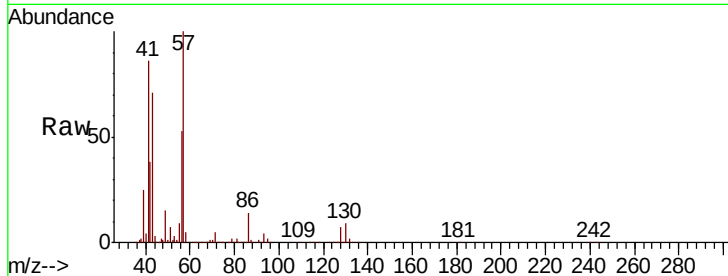
Ion	Ratio	Lower	Upper
41	100		
76	7.3	23.7	35.5#
39	26.4	62.0	93.0#





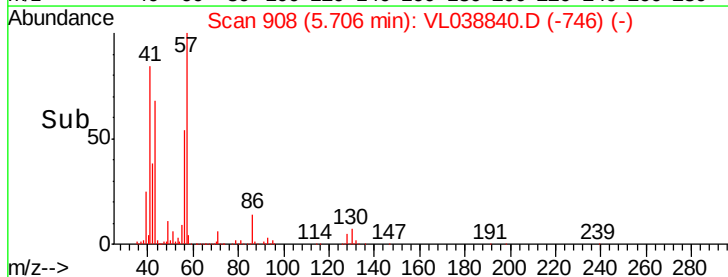
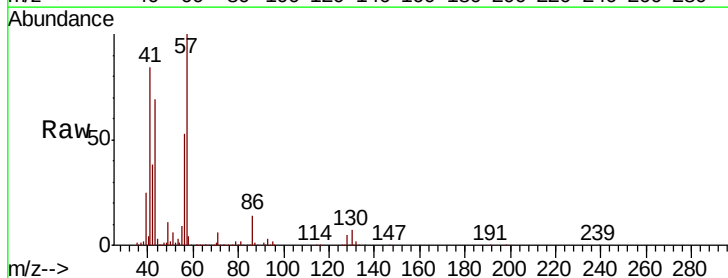
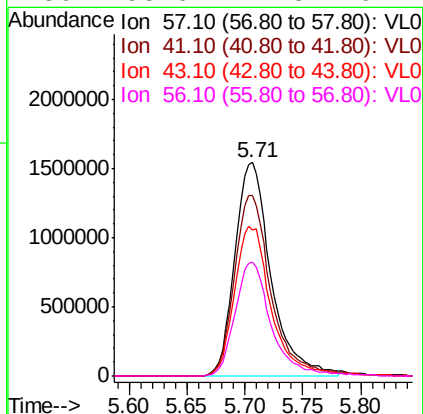
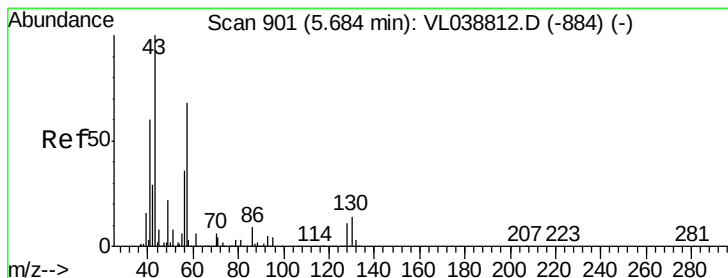
#25
Ethyl Acetate
Concen: 7.475 ppbv
RT: 5.70
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 7 Apr 2022 14:18

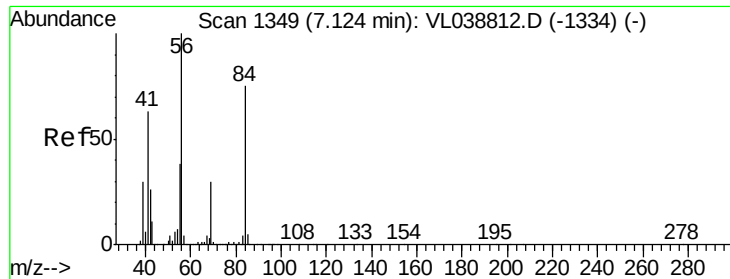
Tot Ion:	43	Resp:	2393697
Ion	Ratio	Lower	Upper
43	100		
45	0.2	8.4	12.6#
61	0.2	7.9	11.9#
70	1.5	5.6	8.4#



#26
Hexane
Concen: 22.926 ppbv
RT: 5.71 min Scan# 908
Delta R.T.: 0.02 min
Lab File: VL038840.D
Acq: 7 Apr 2022 14:18

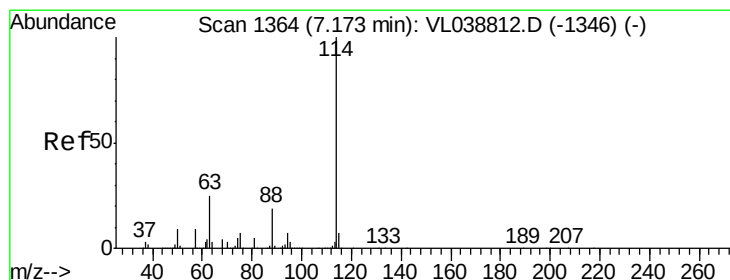
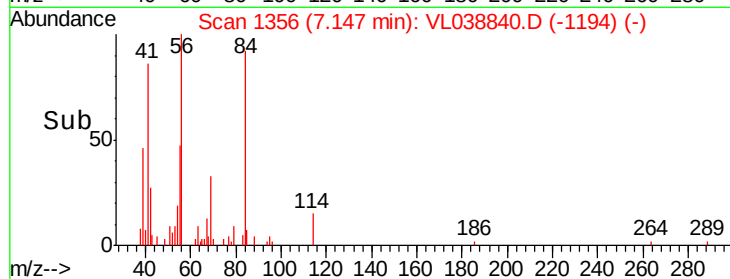
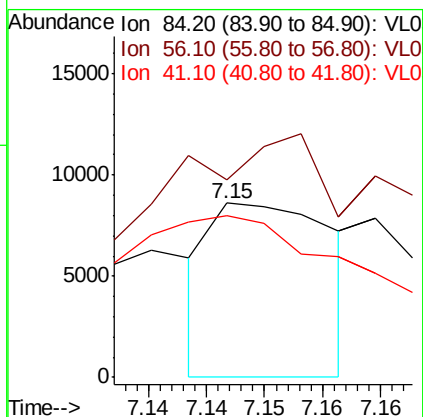
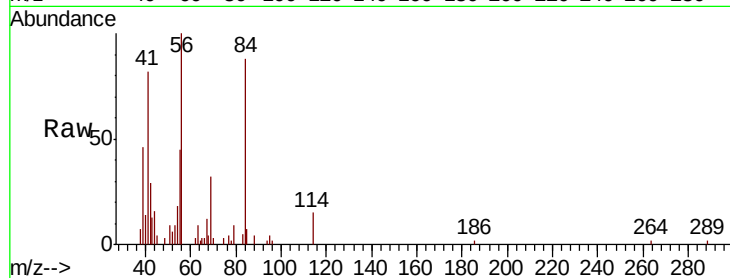
Tgt Ion:	57	Resp:	3341842
Ion	Ratio	Lower	Upper
57	100		
41	86.3	72.0	108.0
43	71.8	186.6	280.0#
56	53.6	42.8	64.2





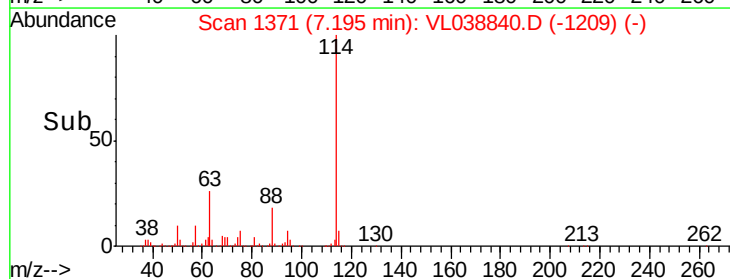
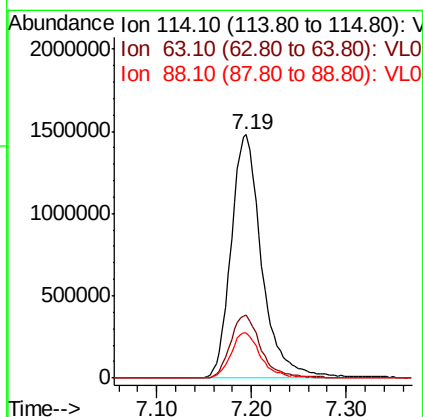
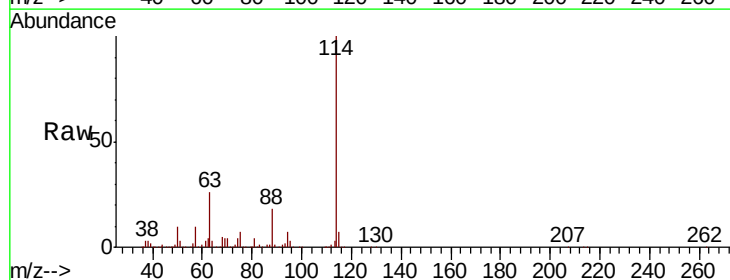
#30
Cvclohexane
Concen: 0.049 ppbv
RT: 7.15
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
BD-INDOORDUP
Acq: 7 Apr 2022 14:18

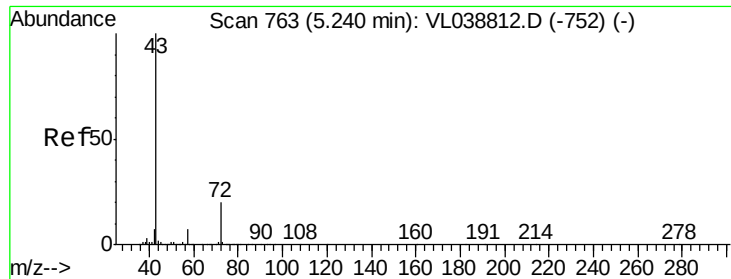
Tot Ion: 84 Resp: 6237
Ion Ratio Lower Upper
84 100
56 0.0 114.4 171.6#
41 310.3 69.0 103.4#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1371
Delta R.T. 0.02 min
Lab File: VL038840.D
Acq: 7 Apr 2022 14:18

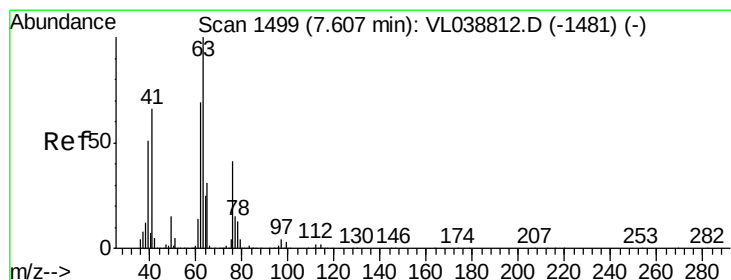
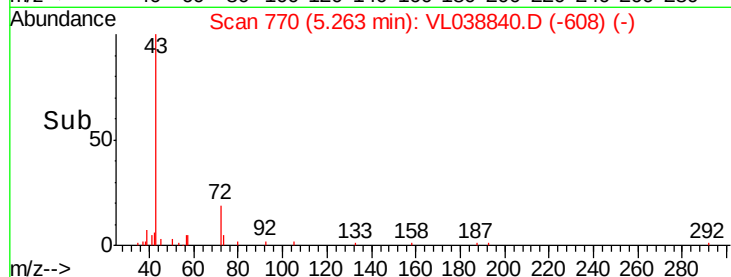
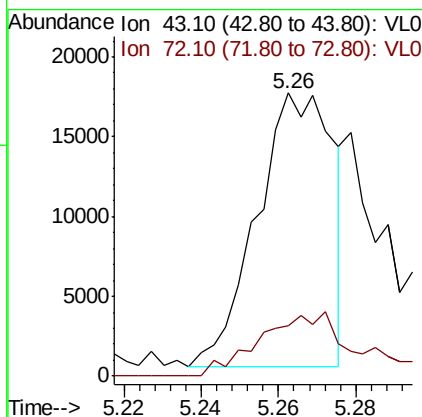
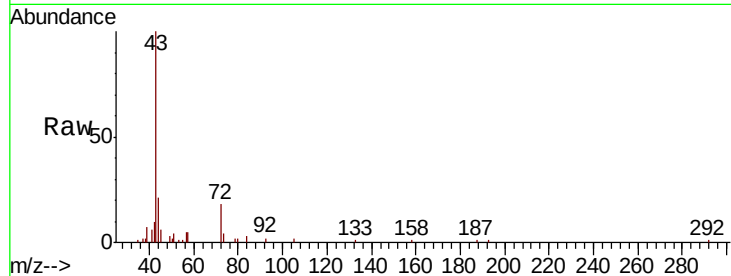
Tgt Ion: 114 Resp: 3331456
Ion Ratio Lower Upper
114 100
63 26.3 19.8 29.8
88 18.6 14.2 21.4





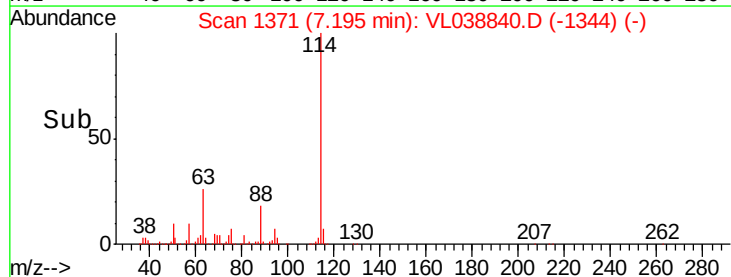
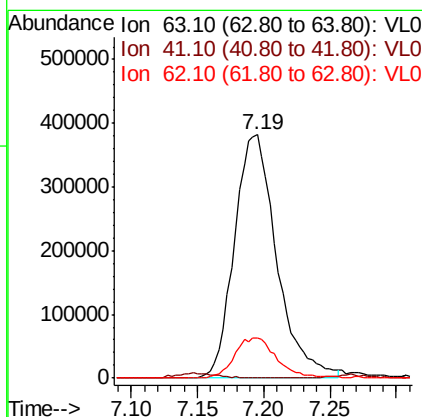
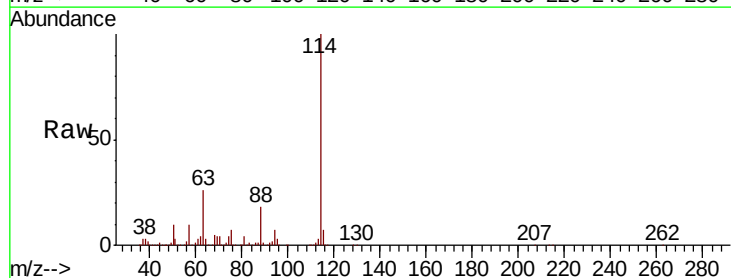
#34
 2-Butanone
 Concen: 0.179 ppbv
 RT: 5.26
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 BD-INDOORDUP
 Acq: 7 Apr 2022 14:18

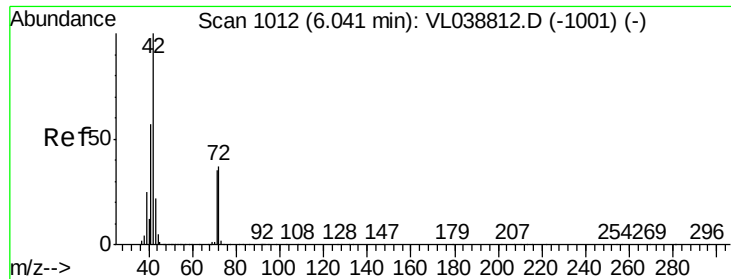
Tot Ion: 43 Resp: 23515
 Ion Ratio Lower Upper
 43 100
 72 37.1 16.9 25.3#



#39
 1,2-Dichloropropane
 Concen: 7.315 ppbv
 RT: 7.19 min Scan# 1371
 Delta R.T. -0.41 min
 Lab File: VL038840.D
 Acq: 7 Apr 2022 14:18

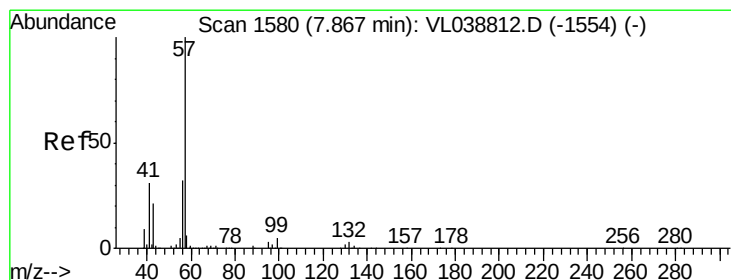
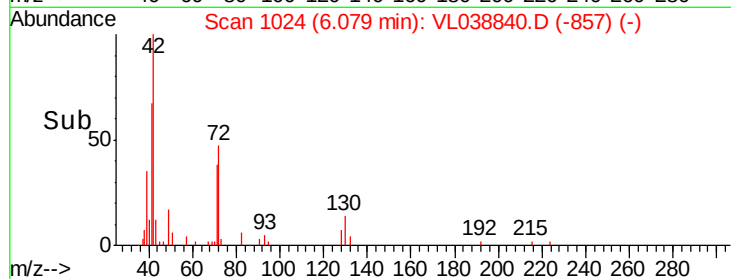
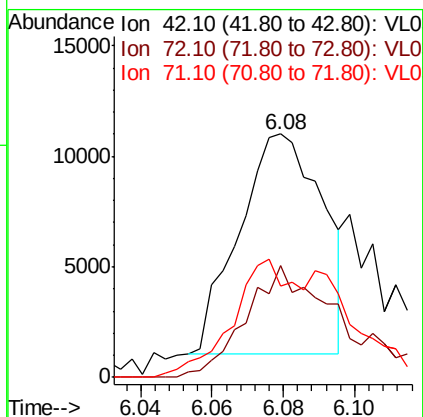
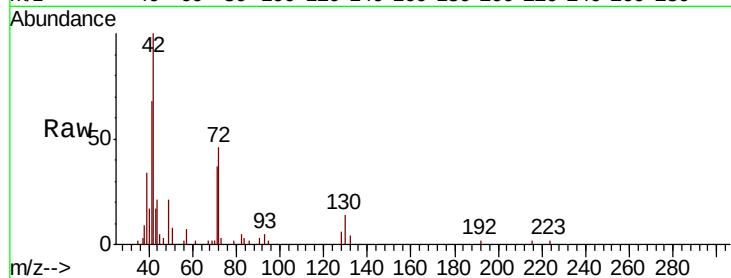
Tgt Ion: 63 Resp: 847937
 Ion Ratio Lower Upper
 63 100
 41 0.0 53.0 79.6#
 62 16.7 55.0 82.4#





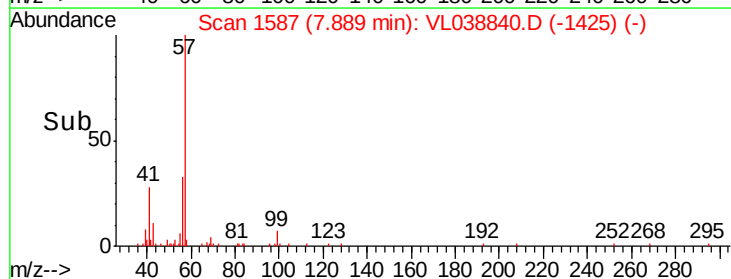
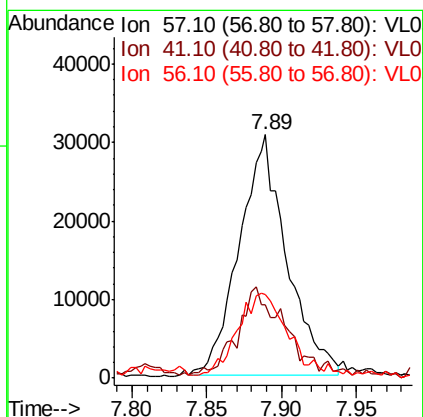
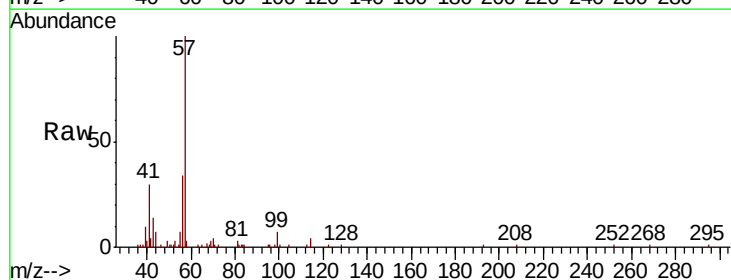
#41
Tetrahydrofuran
Concen: 0.130 ppbv
RT: 6.08
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId :
Acq: 7 Apr 2022 14:18

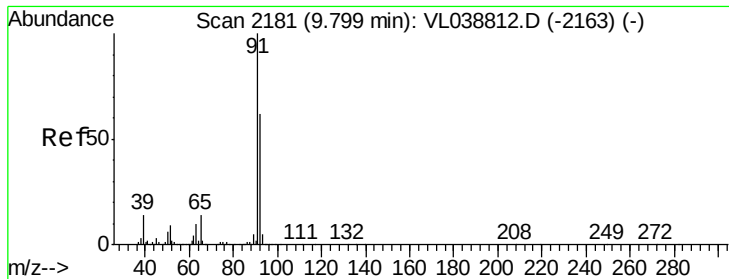
Tot Ion	Ratio	Lower	Upper
42	100		
72	62.3	31.4	47.0#
71	75.6	30.2	45.4#



#44
2,2,4-Trimethylpentane
Concen: 0.132 ppbv
RT: 7.89 min Scan# 1587
Delta R.T.: 0.02 min
Lab File: VL038840.D
Acq: 7 Apr 2022 14:18

Tgt Ion	Ratio	Lower	Upper
57	100		
41	41.9	25.0	37.4#
56	41.0	25.3	37.9#





#53

Toluene

Concen: 0.361 ppbv

RT: 9.83 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

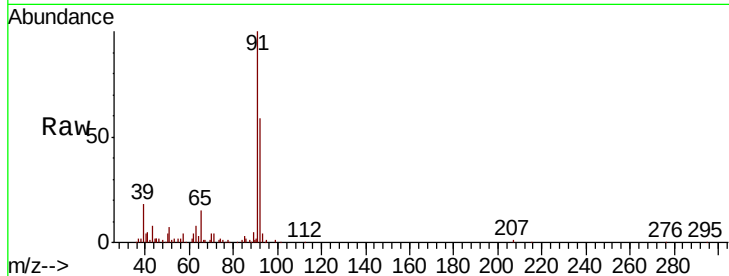
Acq: 7 Apr 2022 14:18 BD-INDOORDUP

Tot Ion: 91 Resp: 126435

Ion Ratio Lower Upper

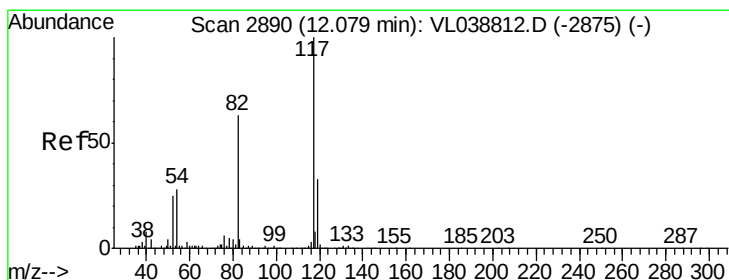
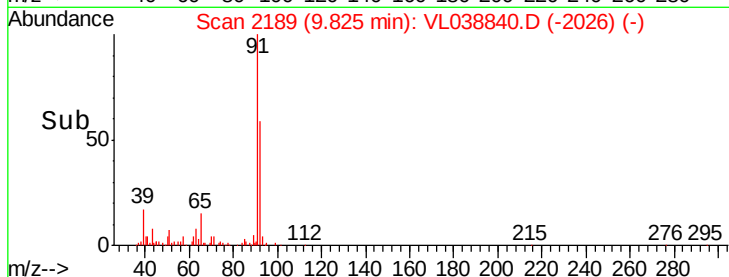
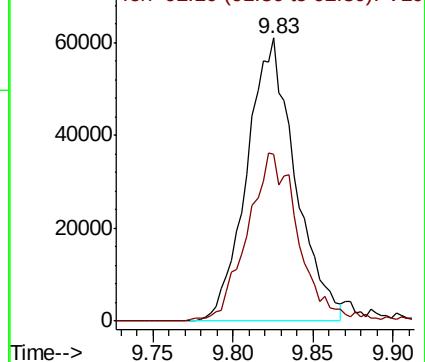
91 100

92 63.6 49.2 73.8



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: 12.10 min Scan# 2897

Delta R.T. 0.02 min

Lab File: VL038840.D

Acq: 7 Apr 2022 14:18

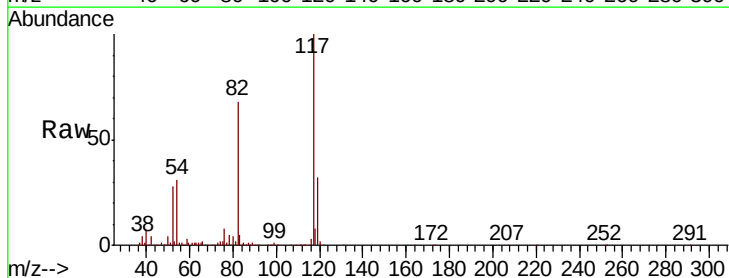
Tgt Ion: 117 Resp: 2890307

Ion Ratio Lower Upper

117 100

82 71.4 53.0 79.6

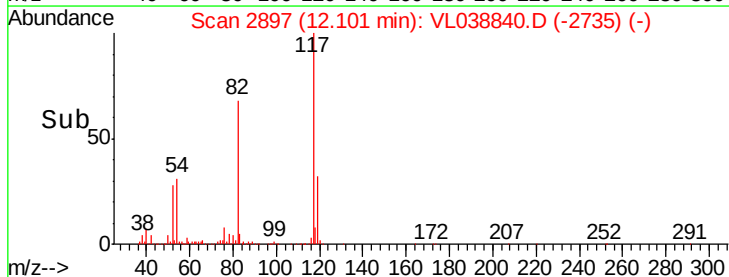
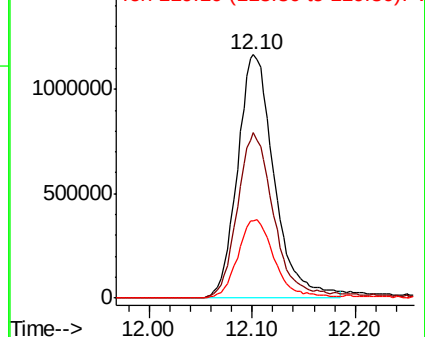
119 33.9 24.9 37.3

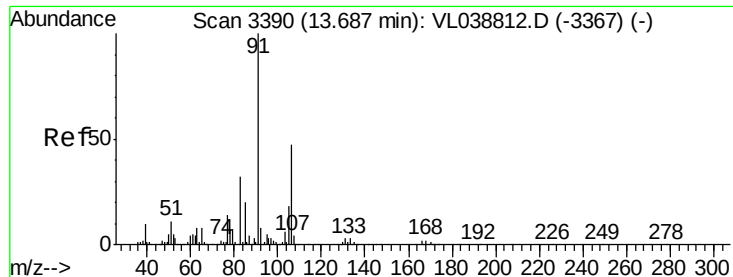


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

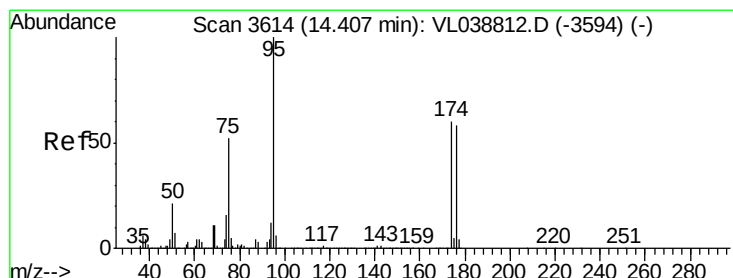
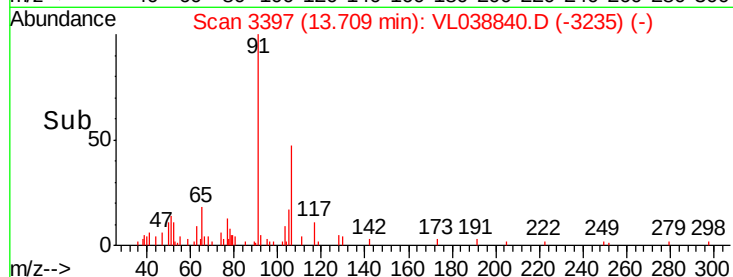
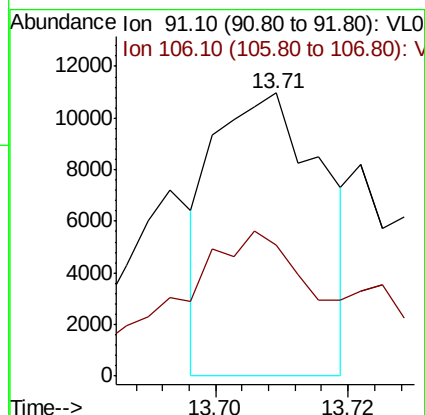
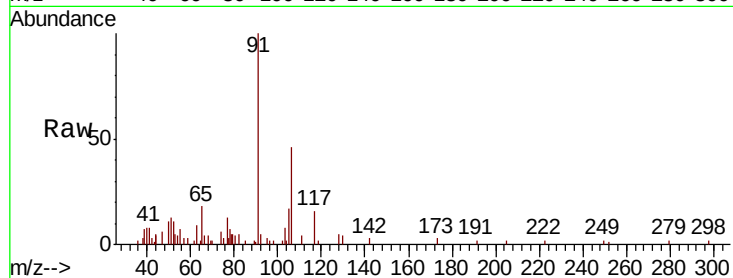
Ion 119.10 (118.80 to 119.80): V





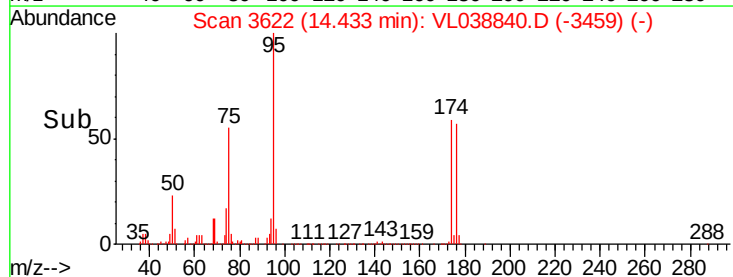
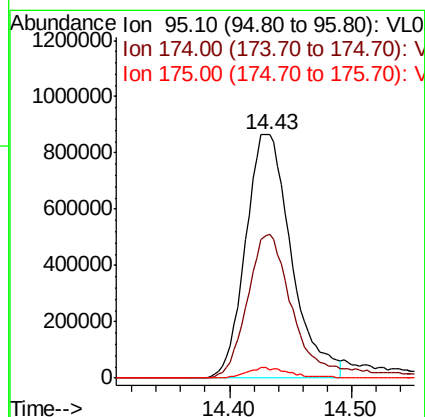
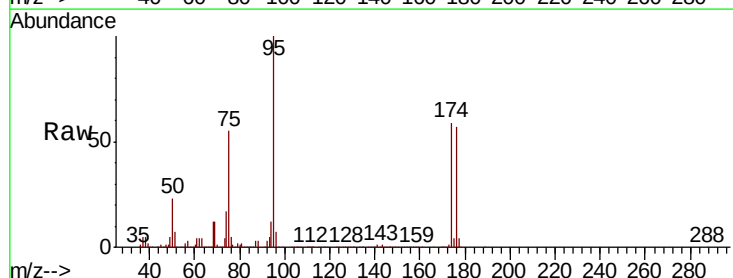
#60
o-Xylene
Concen: 0.037 ppbv
RT: 13.71
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
BD-INDOORDUP
Acq: 7 Apr 2022 14:18

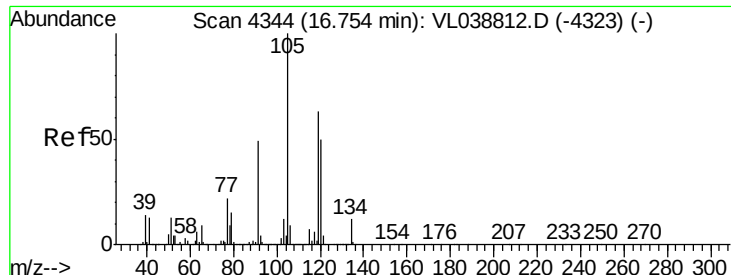
Tot Ion: 91 Resp: 12492
Ion Ratio Lower Upper
91 100
106 99.8 23.8 71.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.243 ppbv
RT: 14.43 min Scan# 3622
Delta R.T. 0.03 min
Lab File: VL038840.D
Acq: 7 Apr 2022 14:18

Tgt Ion: 95 Resp: 2245661
Ion Ratio Lower Upper
95 100
174 62.5 52.0 78.0
175 4.2 4.0 6.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.191 ppbv
 RT: 16.78
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 BD-INDOORDUP
 Acq: 7 Apr 2022 14.18

Tot Ion:	105	Resp:	73487
Ion Ratio	Lower	Upper	
105	100		
120	35.8	39.8	59.8#
91	17.1	39.4	59.0#
77	15.2	17.3	25.9#

