

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042721\
 Data File : VL036852.D
 Acq On : 27 Apr 2021 11:15
 Operator : SY/AP
 Sample : M2174-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 28 05:23:07 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL042721AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Apr 27 16:56:35 2021
 QLast Update : Tue Apr 27 16:56:35 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1376527	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3345470	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2898552	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	2372311	10.20	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%

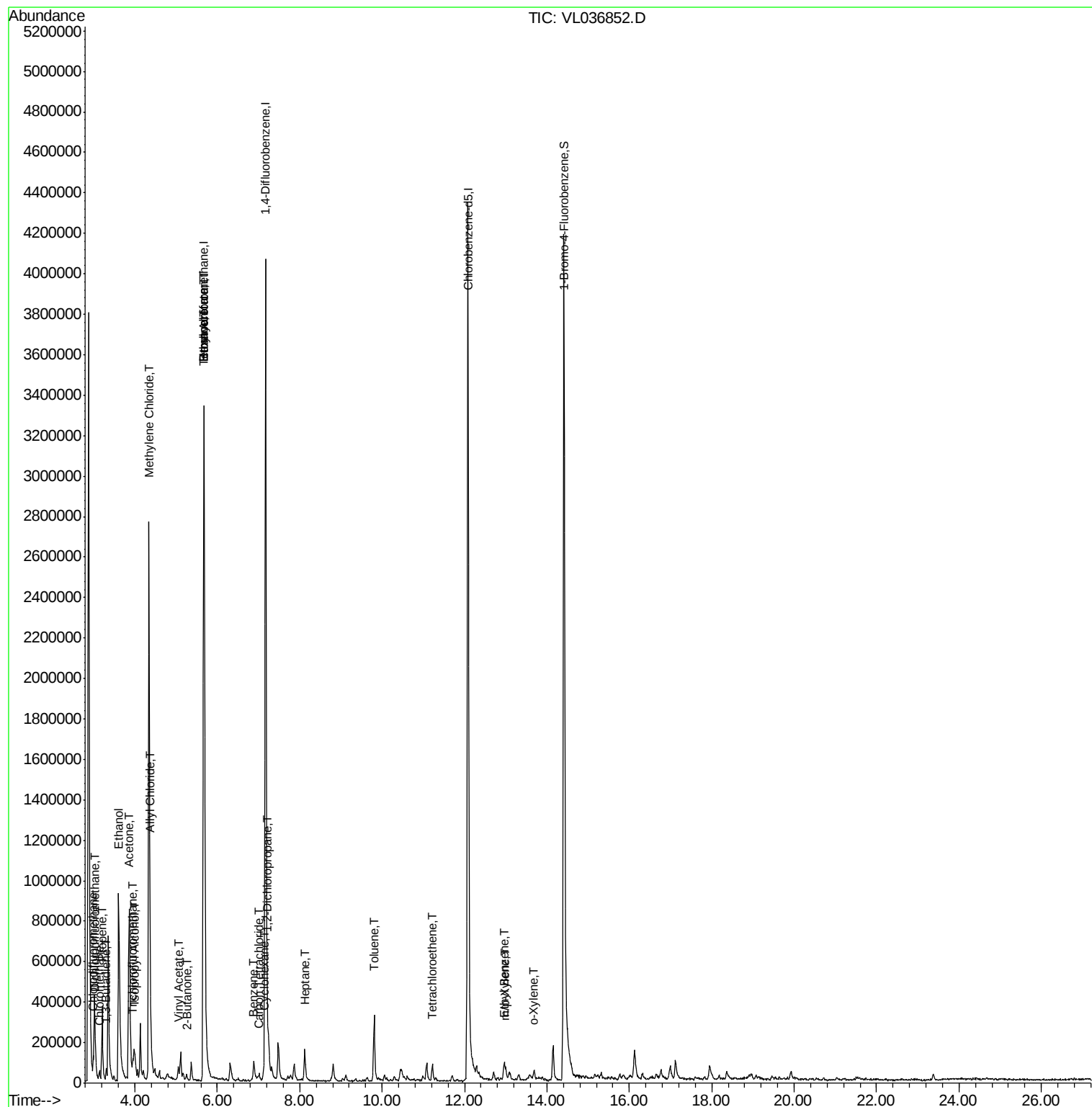
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	63538	0.293	ppbv #	88
3) Chlorodifluoromethane	2.99	51	128075	0.511	ppbv	93
4) Chloromethane	3.14	50	43696	0.530	ppbv #	84
9) Propene	3.20	41	121375	1.589	ppbv	99
10) Heptane	8.12	43	42422	0.221	ppbv #	73
11) Trichlorofluoromethane	3.95	101	47237	0.244	ppbv	88
13) Ethanol	3.61	45	1357691	139.339	ppbv	92
15) Acetone	3.85	43	1076121	8.294	ppbv	90
16) 1,3-Butadiene	3.31	39	6689	0.081	ppbv #	12
19) Isopropyl Alcohol	3.98	45	73706	1.147	ppbv #	42
20) Methylene Chloride	4.34	84	1112166	17.926	ppbv	97
21) Allyl Chloride	4.37	41	7381	0.077	ppbv #	13
23) Vinyl Acetate	5.05	43	22293	0.126	ppbv #	1
25) Ethyl Acetate	5.68	43	709705	2.239	ppbv #	82
26) Hexane	5.68	57	893474	6.026	ppbv #	48
30) Cyclohexane	7.13	84	3725	0.032	ppbv #	1
34) 2-Butanone	5.25	43	30379	0.207	ppbv #	82
35) Carbon Tetrachloride	7.02	117	10376	0.046	ppbv #	74
36) Benzene	6.88	78	59250	0.210	ppbv #	90
39) 1,2-Dichloropropane	7.22	63	18885	0.167	ppbv #	25
41) Tetrahydrofuran	5.69	42	379993	5.928	ppbv #	51
52) Tetrachloroethene	11.23	164	4055	0.042	ppbv #	41
53) Toluene	9.81	91	260634	0.884	ppbv	98
58) Ethyl Benzene	12.97	91	43924	0.119	ppbv	99
59) m/p-Xylene	12.99	91	13352	0.041	ppbv #	31
60) o-Xylene	13.69	91	10134	0.032	ppbv #	31

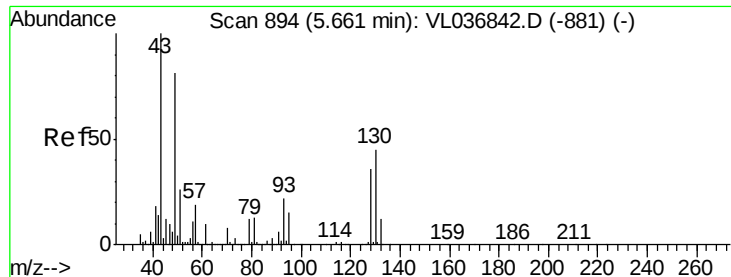
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Apr 27 16:56:35 2021
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Apr 2021 11:15

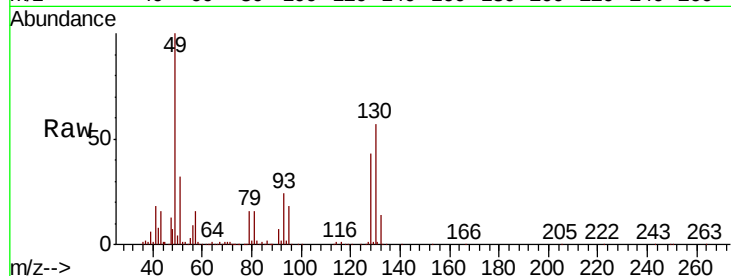
Tot Ion: 49 Resp: 1376527

Ion Ratio Lower Upper

49 100

128 46.5 24.4 73.2

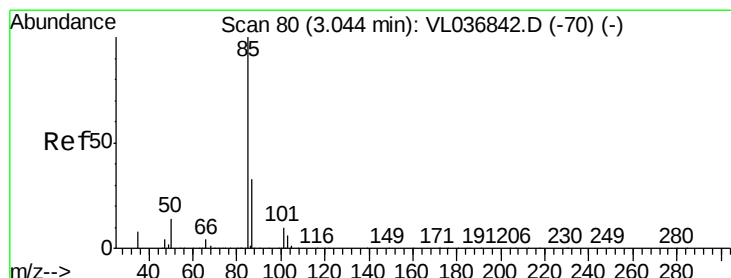
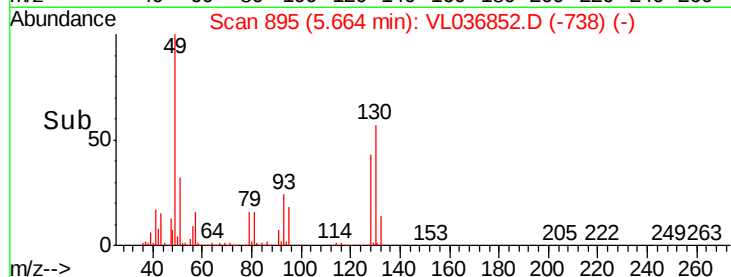
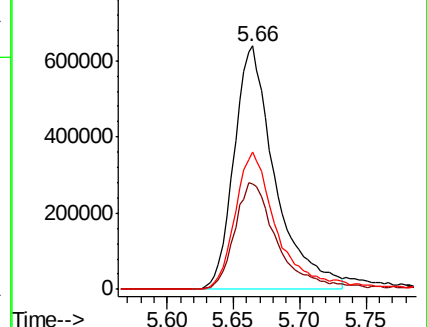
130 59.9 30.3 90.8



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: 0.293 ppbv

RT: 3.04 min Scan# 80

Delta R.T. 0.00 min

Lab File: VL036852.D

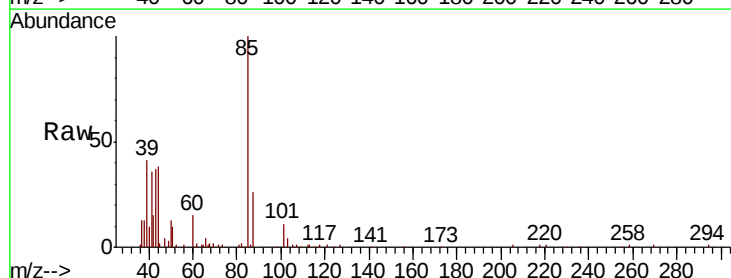
Acq: 27 Apr 2021 11:15

Tgt Ion: 85 Resp: 63538

Ion Ratio Lower Upper

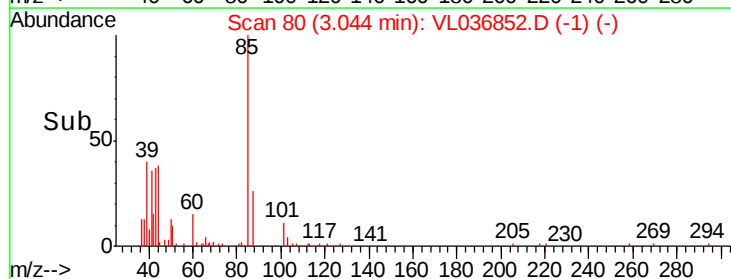
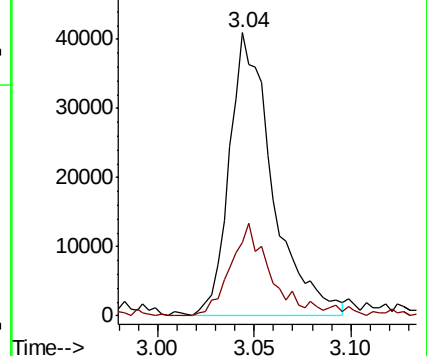
85 100

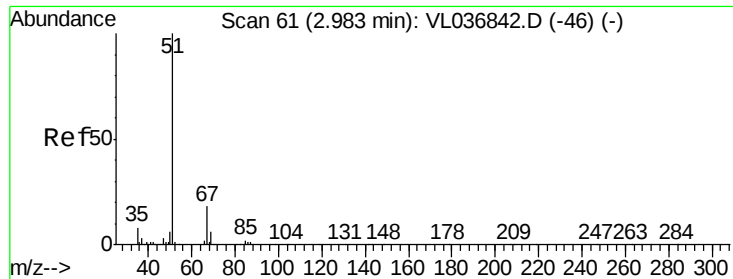
87 26.2 26.2 39.2#



Abundance Ion 85.00 (84.70 to 85.70): VL0

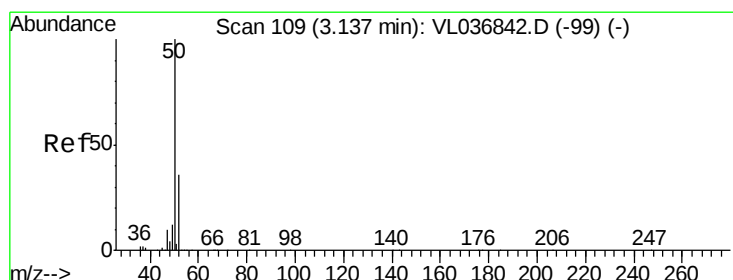
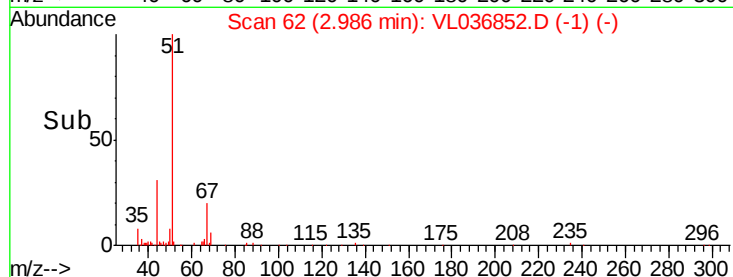
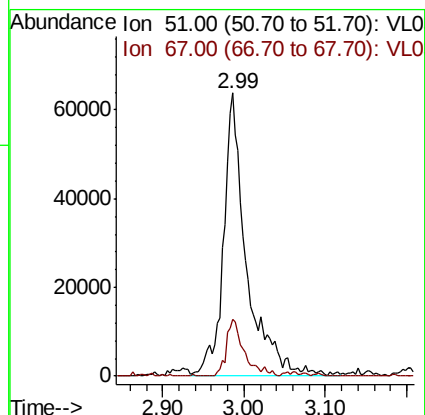
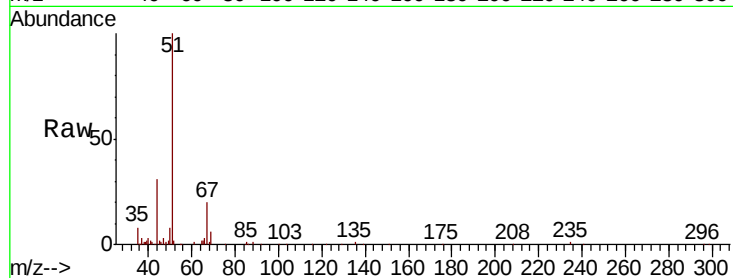
Ion 87.00 (86.70 to 87.70): VL0





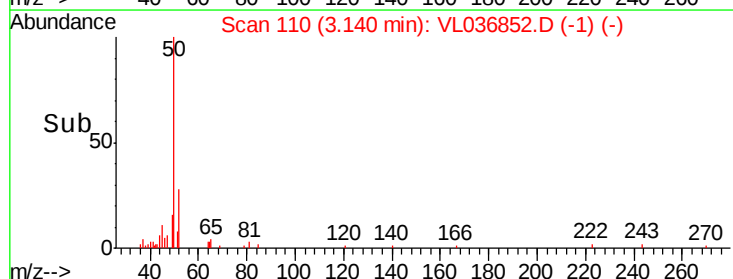
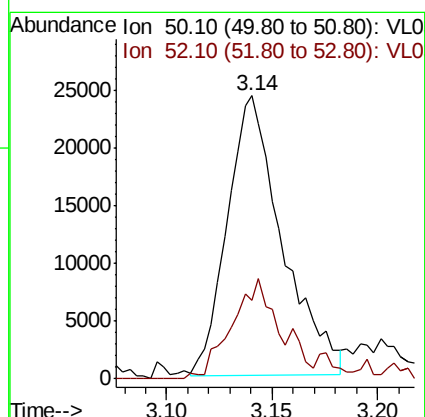
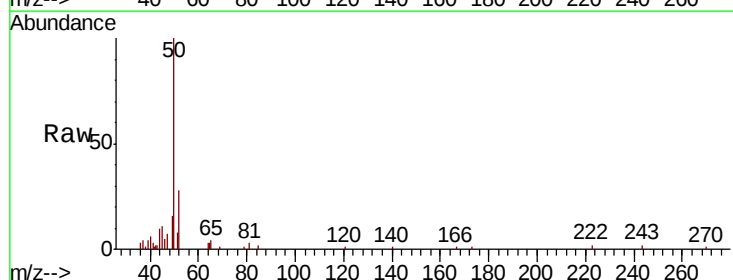
#3
 Chlorodifluoromethane
 Concen: 0.511 ppbv
 RT: 2.99
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 27 Apr 2021 11:15

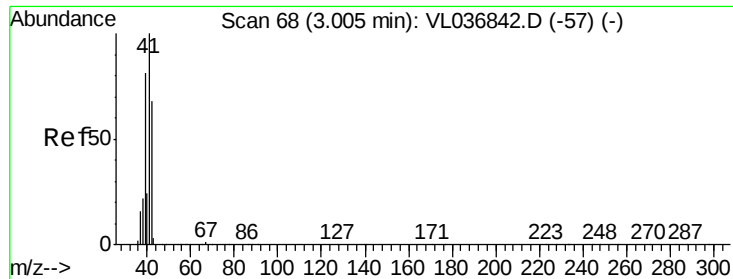
Tot Ion: 51 Resp: 128075
 Ion Ratio Lower Upper
 51 100
 67 15.4 14.8 22.2



#4
 Chloromethane
 Concen: 0.530 ppbv
 RT: 3.14 min Scan# 110
 Delta R.T.: 0.00 min
 Lab File: VL036852.D
 Acq: 27 Apr 2021 11:15

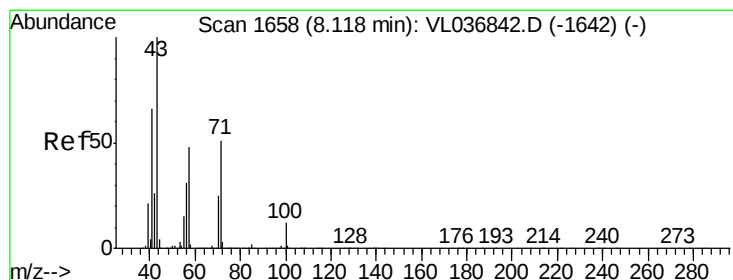
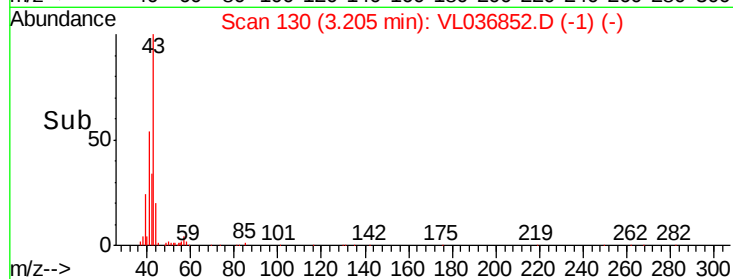
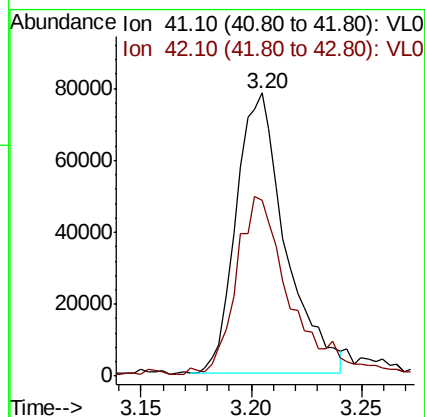
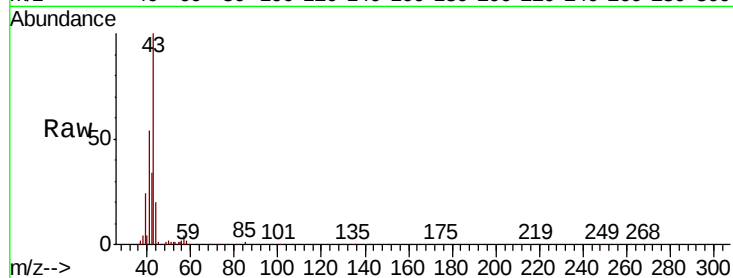
Tgt Ion: 50 Resp: 43696
 Ion Ratio Lower Upper
 50 100
 52 26.4 28.5 42.7#





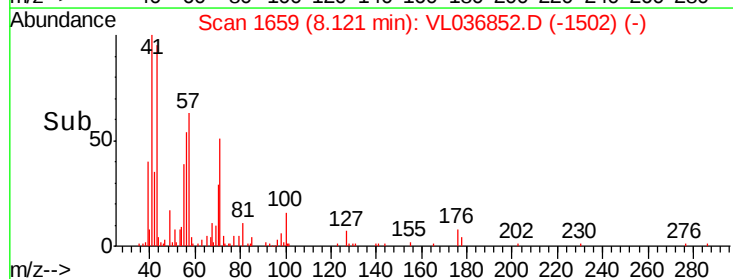
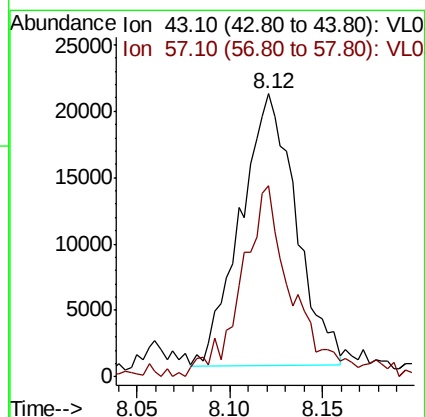
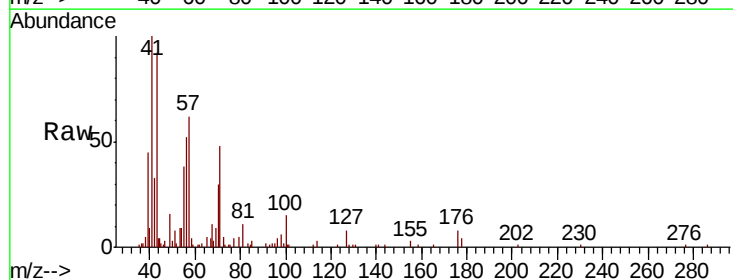
#9
 Propene
 Concen: 1.589 ppbv
 RT: 3.20
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Apr 2021 11:15

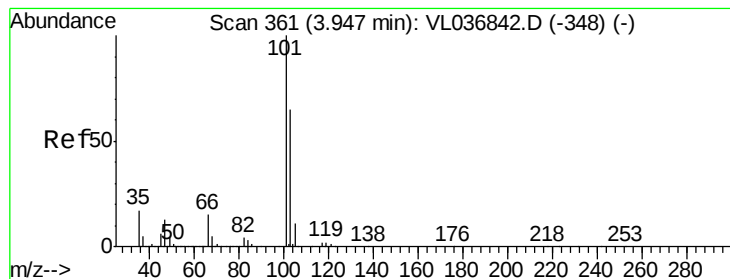
Tot Ion: 41 Resp: 121375
 Ion Ratio Lower Upper
 41 100
 42 71.2 56.0 84.0



#10
 Heptane
 Concen: 0.221 ppbv
 RT: 8.12 min Scan# 1659
 Delta R.T. 0.00 min
 Lab File: VL036852.D
 Acq: 27 Apr 2021 11:15

Tgt Ion: 43 Resp: 42422
 Ion Ratio Lower Upper
 43 100
 57 66.7 38.8 58.2#





#11

Trichlorofluoromethane

Concen: 0.244 ppbv

RT: 3.95 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

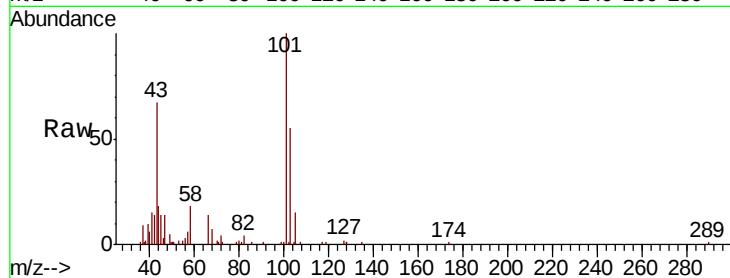
Acq: 27 Apr 2021 11:15

Tot Ion: 101 Resp: 47237

Ion Ratio Lower Upper

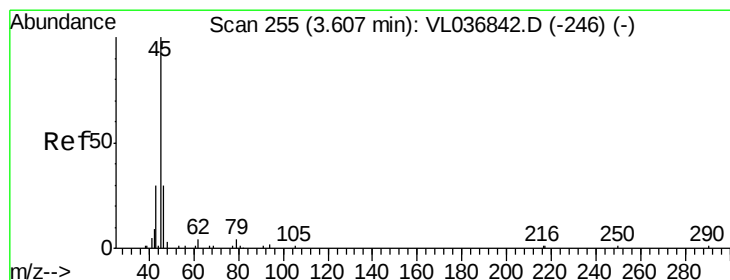
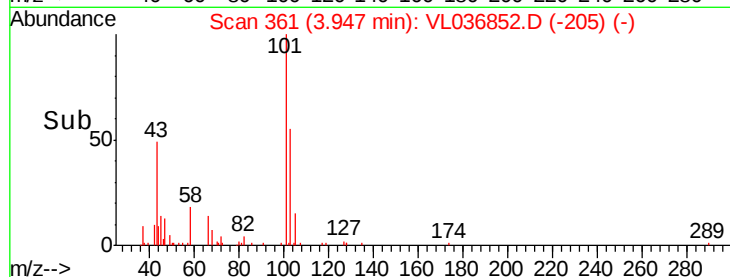
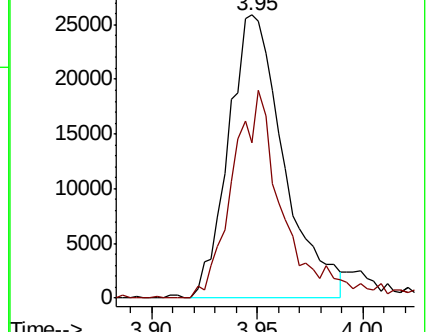
101 100

103 54.9 51.6 77.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 139.339 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.00 min

Lab File: VL036852.D

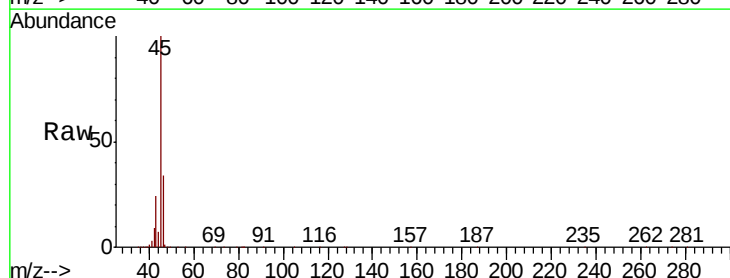
Acq: 27 Apr 2021 11:15

Tgt Ion: 45 Resp: 1357691

Ion Ratio Lower Upper

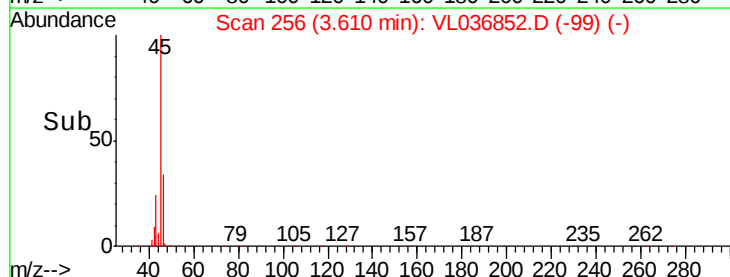
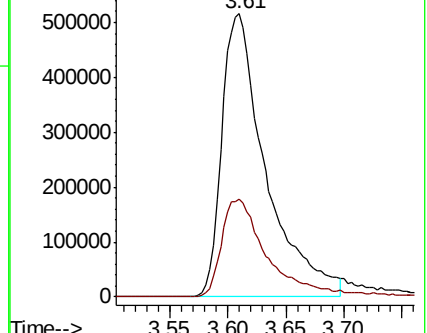
45 100

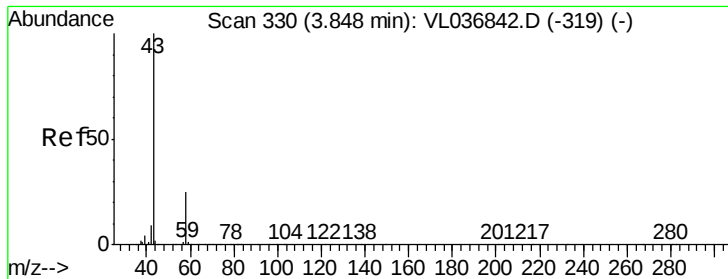
46 37.2 16.8 67.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

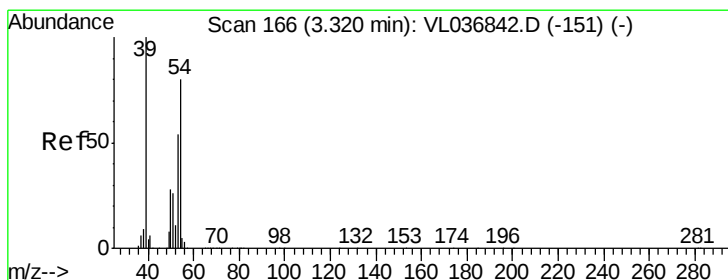
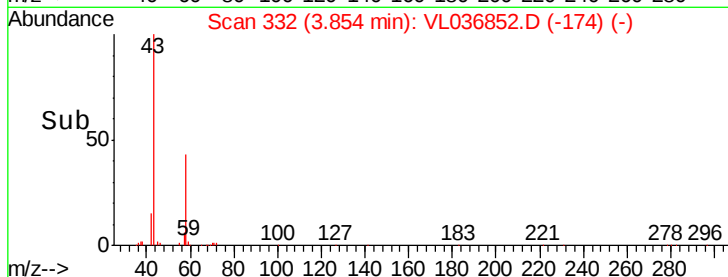
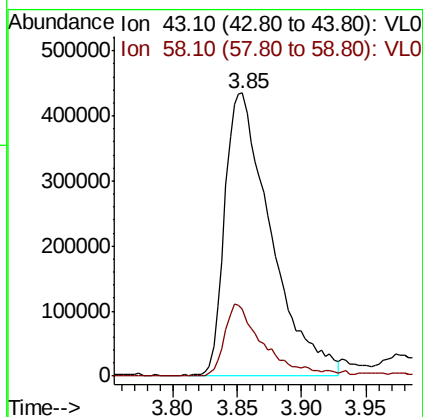
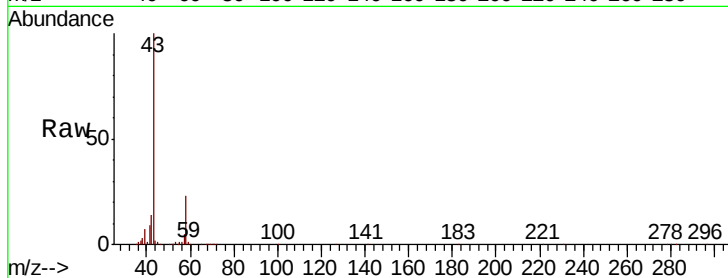
Ion 46.10 (45.80 to 46.80): VL0





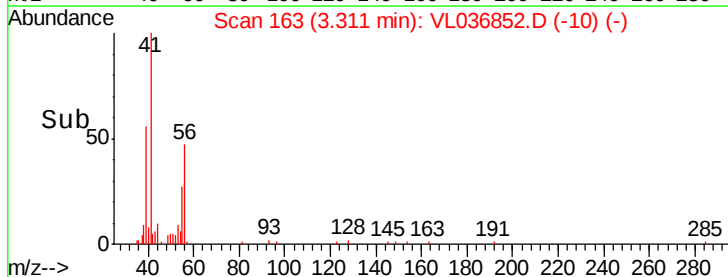
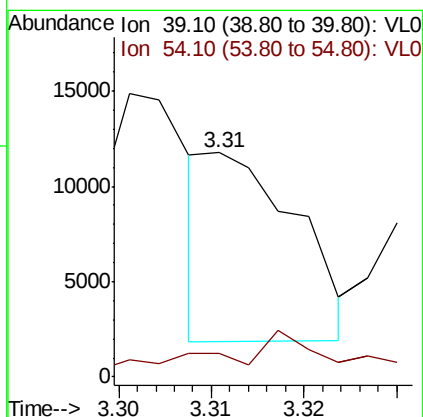
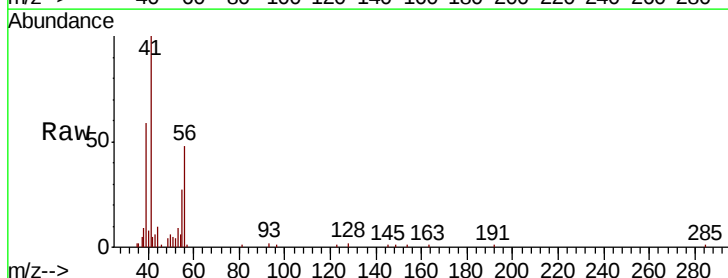
#15
Acetone
Concen: 8.294 ppbv
RT: 3.85
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Apr 2021 11:15

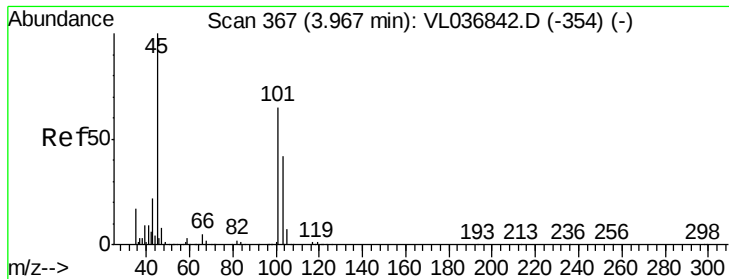
Tot Ion: 43 Resp: 1076121
Ion Ratio Lower Upper
43 100
58 21.9 21.7 32.5



#16
1,3-Butadiene
Concen: 0.081 ppbv
RT: 3.31 min Scan# 163
Delta R.T. -0.01 min
Lab File: VL036852.D
Acq: 27 Apr 2021 11:15

Tgt Ion: 39 Resp: 6689
Ion Ratio Lower Upper
39 100
54 0.0 59.6 89.4#





#19

Isopropyl Alcohol

Concen: 1.147 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

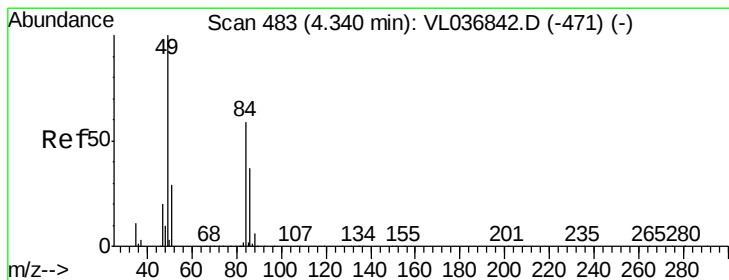
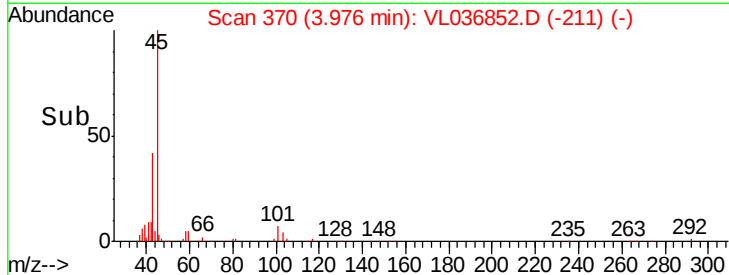
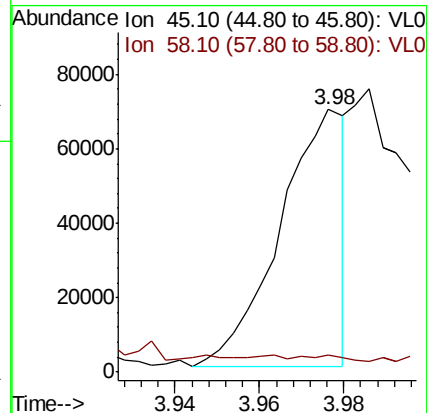
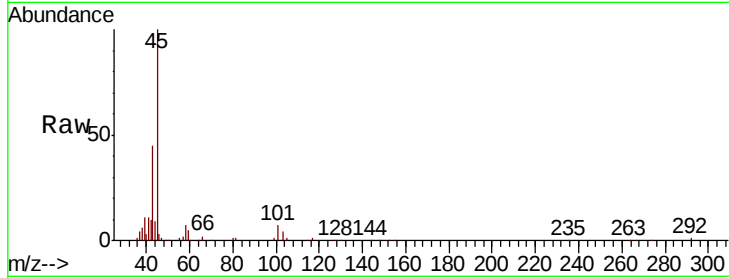
Acq: 27 Apr 2021 11:15

Tot Ion: 45 Resp: 73706

Ion Ratio Lower Upper

45 100

58 22.5 2.8 4.2#



#20

Methylene Chloride

Concen: 17.926 ppbv

RT: 4.34 min Scan# 484

Delta R.T. 0.00 min

Lab File: VL036852.D

Acq: 27 Apr 2021 11:15

Tgt Ion: 84 Resp: 1112166

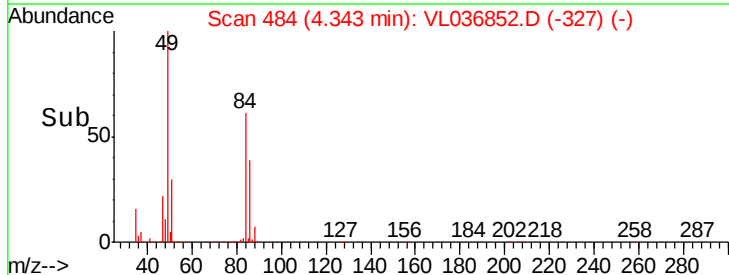
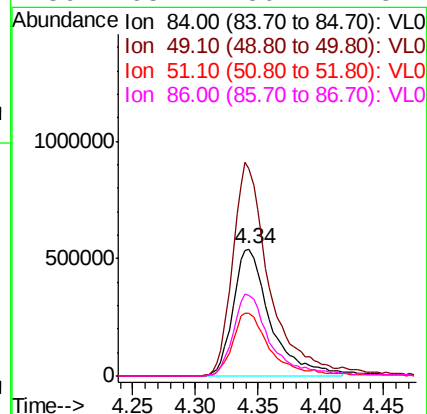
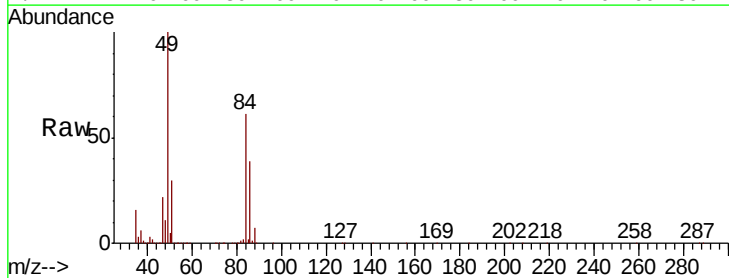
Ion Ratio Lower Upper

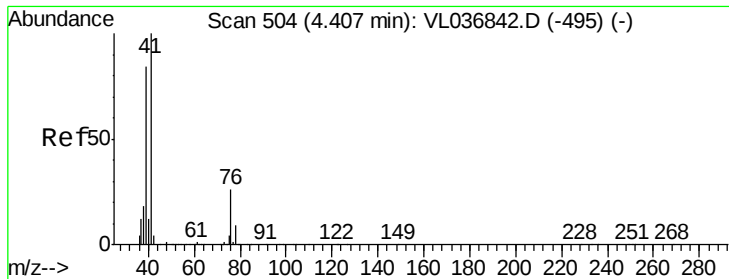
84 100

49 163.7 135.4 203.0

51 48.9 39.3 58.9

86 63.4 50.2 75.2





#21

Allvl Chloride

Concen: 0.077 ppbv

RT: 4.37 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Apr 2021 11:15

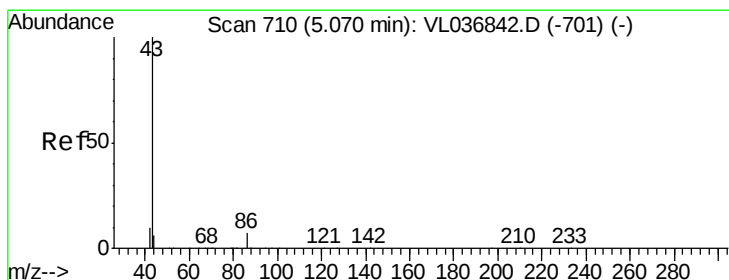
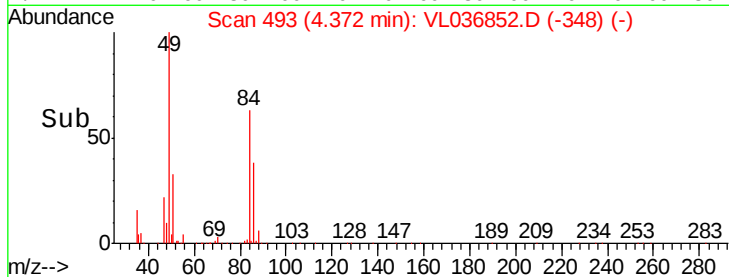
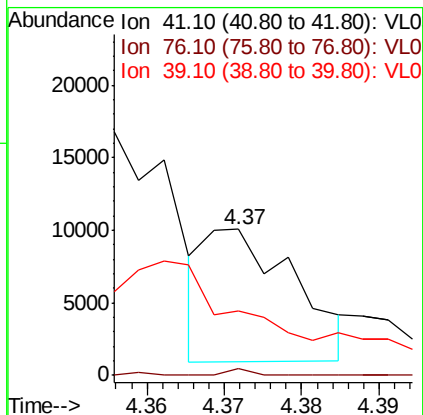
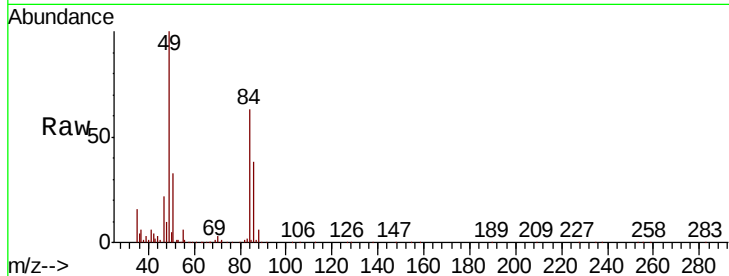
Tot Ion: 41 Resp: 7381

Ion Ratio Lower Upper

41 100

76 2.0 22.4 33.6#

39 176.5 68.4 102.6#



#23

Vinyl Acetate

Concen: 0.126 ppbv

RT: 5.05 min Scan# 705

Delta R.T. -0.02 min

Lab File: VL036852.D

Acq: 27 Apr 2021 11:15

Tgt Ion: 43 Resp: 22293

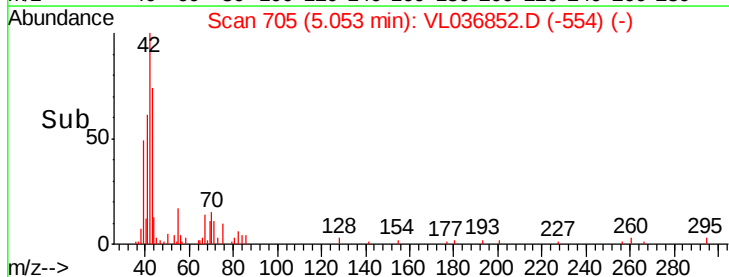
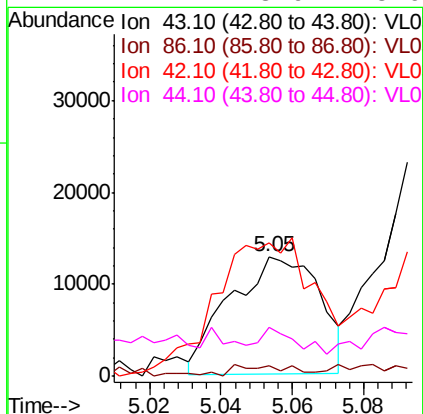
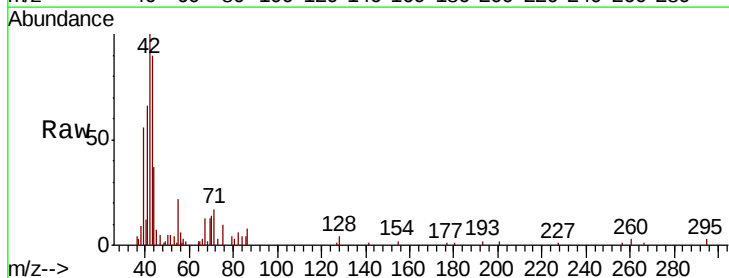
Ion Ratio Lower Upper

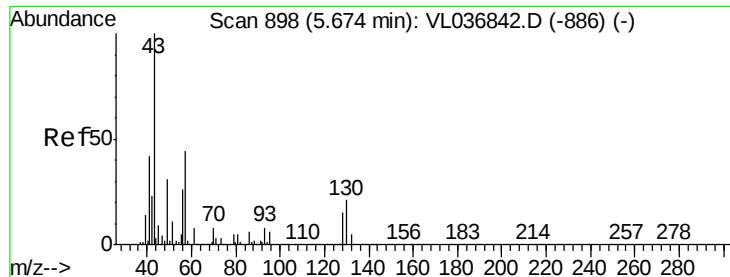
43 100

86 7.7 5.3 7.9

42 95.3 8.7 13.1#

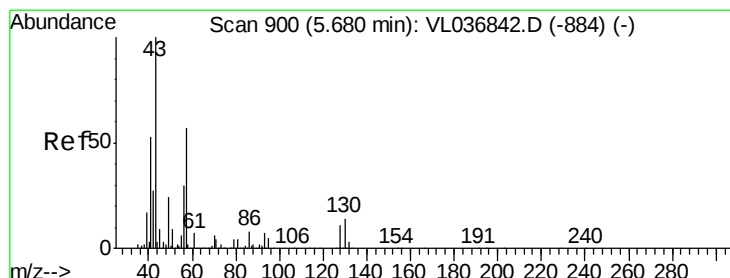
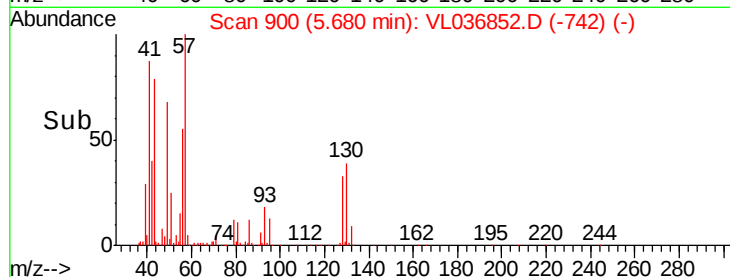
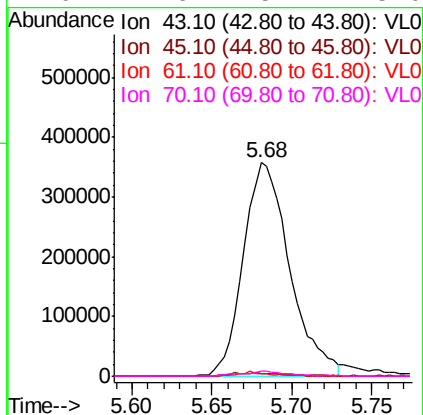
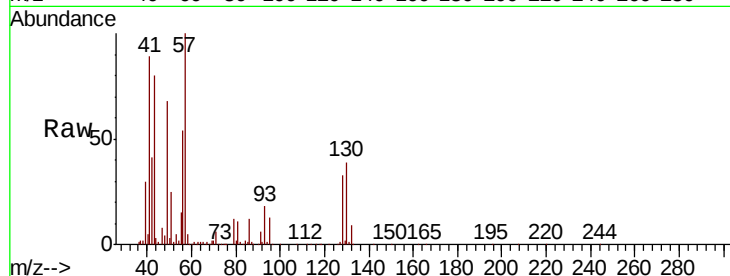
44 17.4 3.9 5.9#





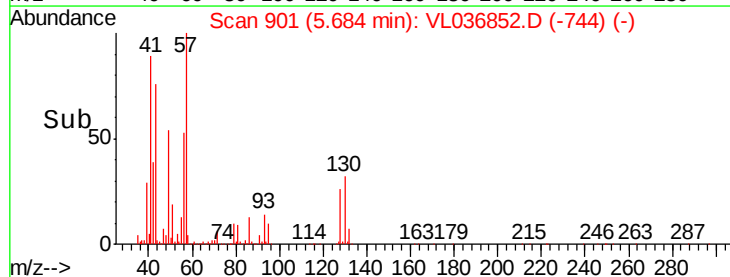
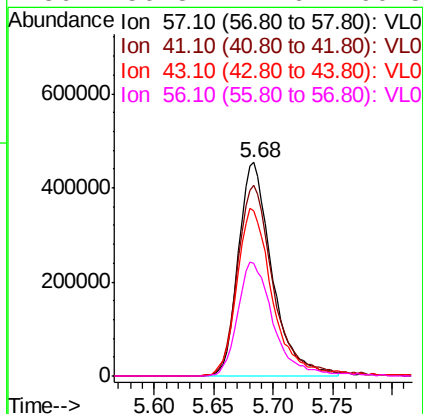
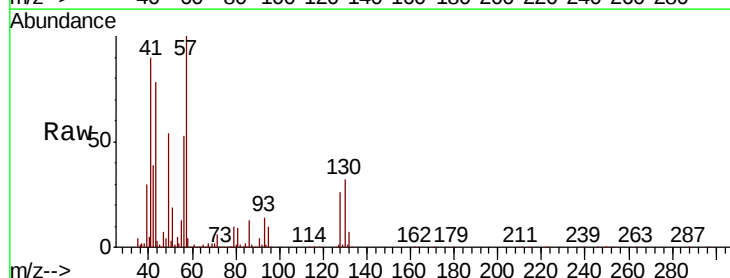
#25
Ethyl Acetate
Concen: 2.239 ppbv
RT: 5.68 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 27 Apr 2021 11:15

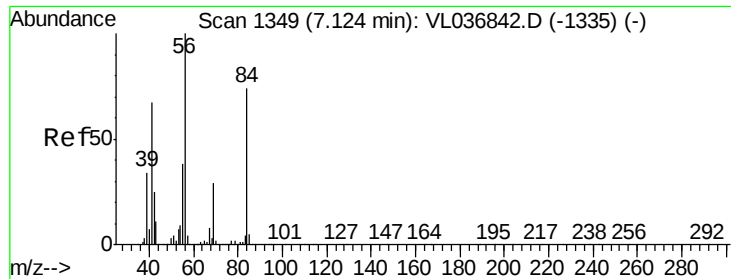
Tot Ion:	43	Resp:	709705
Ion	Ratio	Lower	Upper
43	100		
45	2.3	7.8	11.8#
61	1.7	7.4	11.0#
70	2.6	5.4	8.0#



#26
Hexane
Concen: 6.026 ppbv
RT: 5.68 min Scan# 901
Delta R.T.: 0.00 min
Lab File: VL036852.D
Acq: 27 Apr 2021 11:15

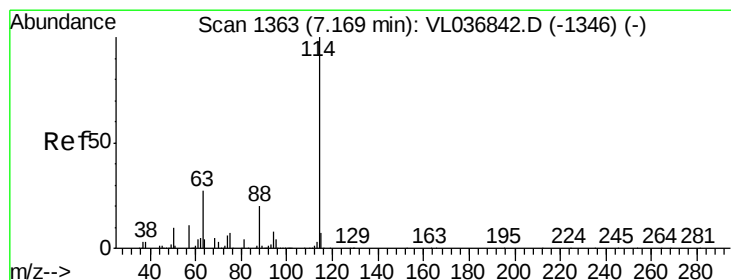
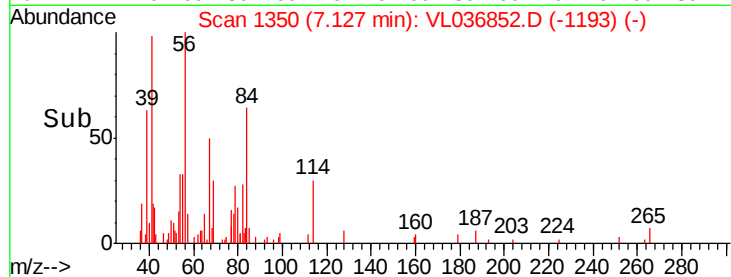
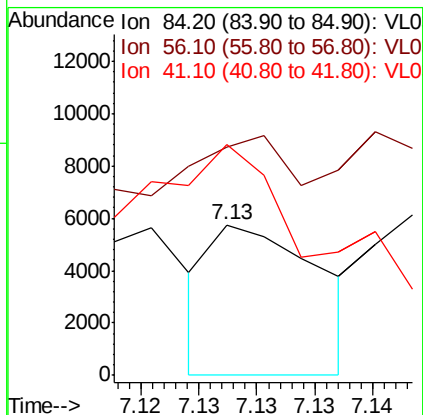
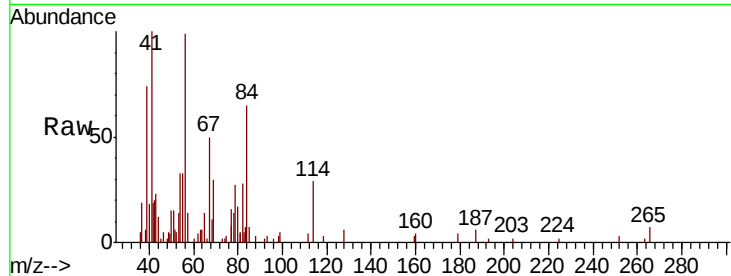
Tgt Ion:	57	Resp:	893474
Ion	Ratio	Lower	Upper
57	100		
41	95.4	77.7	116.5
43	83.7	180.5	270.7#
56	56.8	44.6	66.8





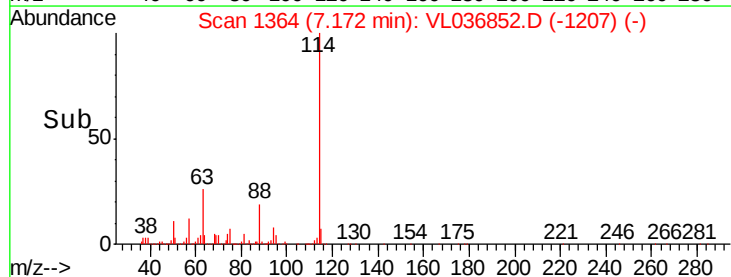
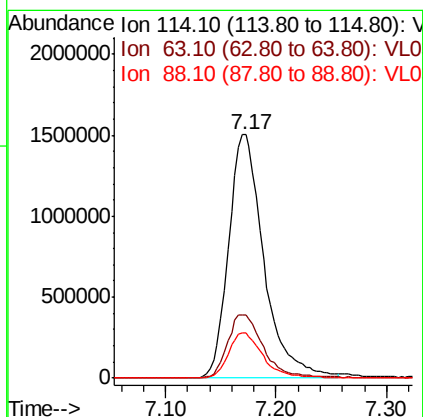
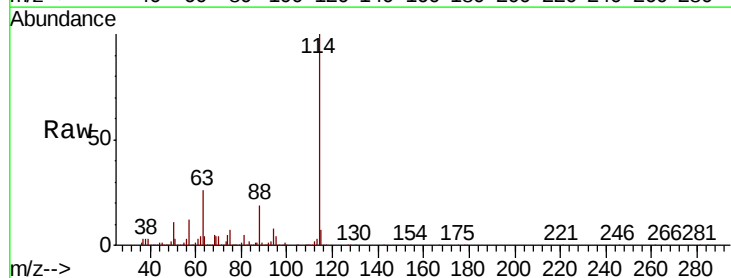
#30
Cyclohexane
Concen: 0.032 ppbv
RT: 7.13 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Apr 2021 11:15

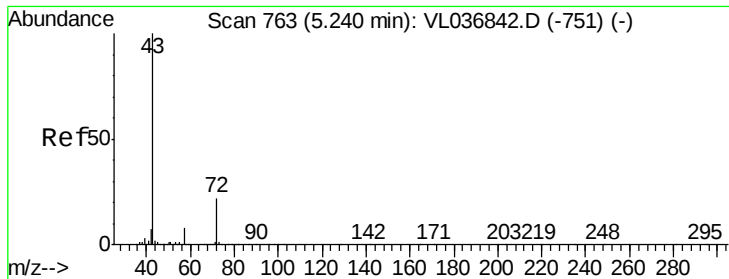
Tot Ion	84	Resp	3725
Ion Ratio	Lower	Upper	
84	100		
56	0.0	115.8	173.6#
41	517.4	74.6	111.8#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T.: 0.00 min
Lab File: VL036852.D
Acq: 27 Apr 2021 11:15

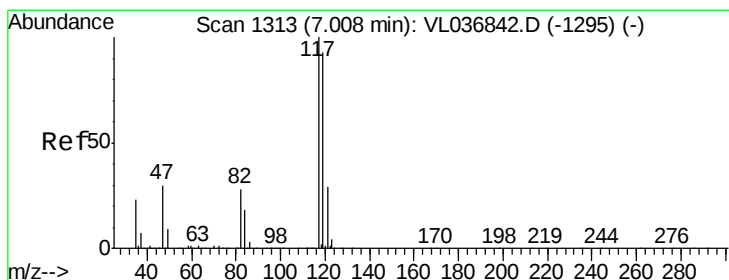
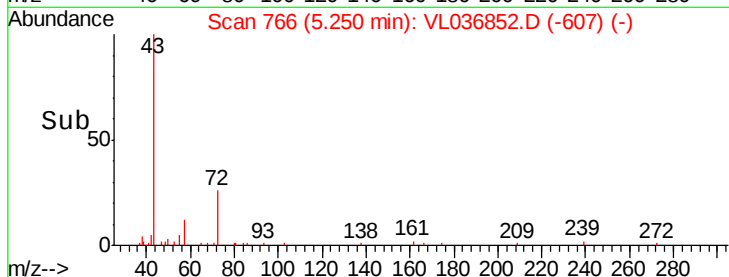
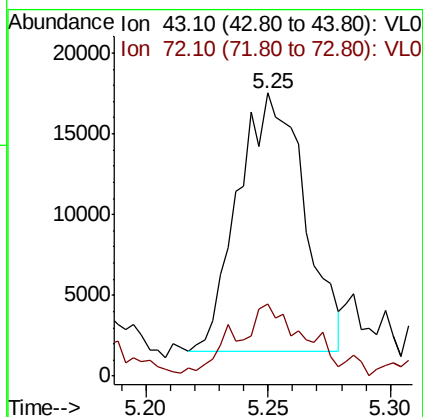
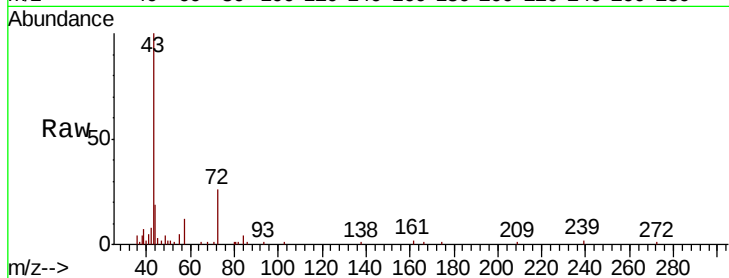
Tgt Ion	114	Resp	3345470
Ion Ratio	Lower	Upper	
114	100		
63	26.8	21.9	32.9
88	18.5	15.1	22.7





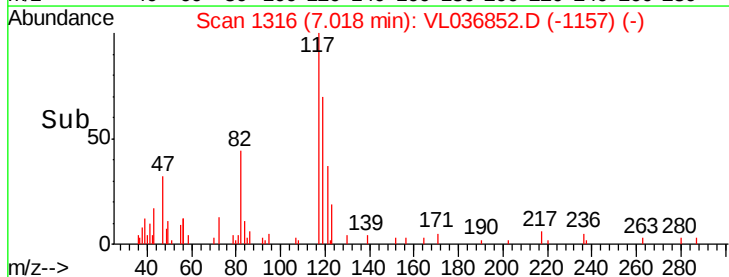
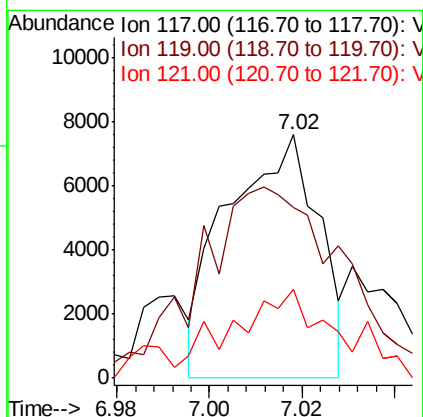
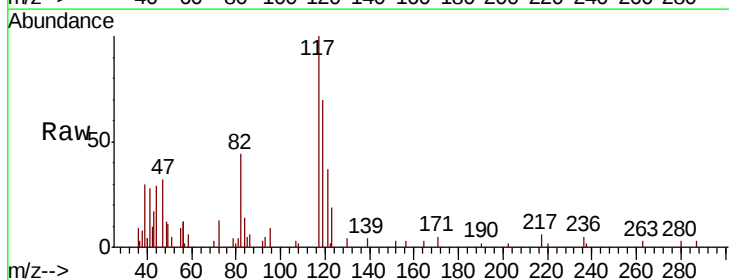
#34
 2-Butanone
 Concen: 0.207 ppbv
 RT: 5.25 Instrument :
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Apr 2021 11:15

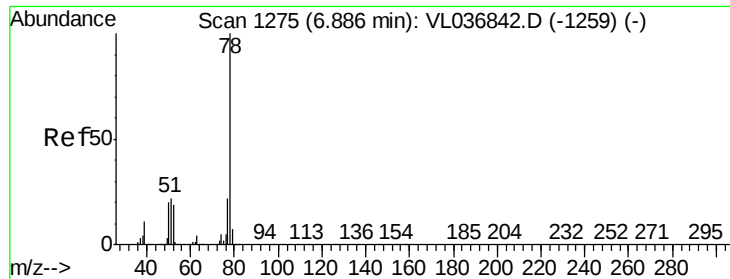
Tot Ion: 43 Resp: 30379
 Ion Ratio Lower Upper
 43 100
 72 30.5 17.6 26.4#



#35
 Carbon Tetrachloride
 Concen: 0.046 ppbv
 RT: 7.02 min Scan# 1316
 Delta R.T. 0.01 min
 Lab File: VL036852.D
 Acq: 27 Apr 2021 11:15

Tgt Ion: 117 Resp: 10376
 Ion Ratio Lower Upper
 117 100
 119 64.6 74.6 111.8#
 121 36.2 23.3 34.9#





#36

Benzene

Concen: 0.210 ppbv

RT: 6.88 Instrument:

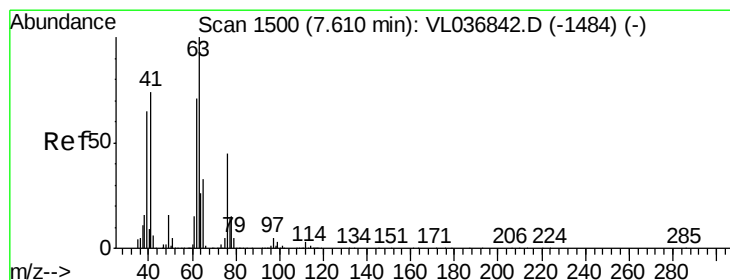
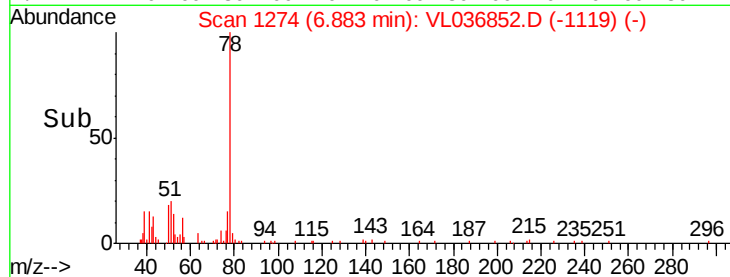
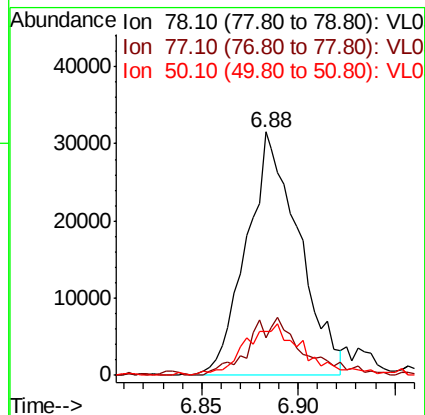
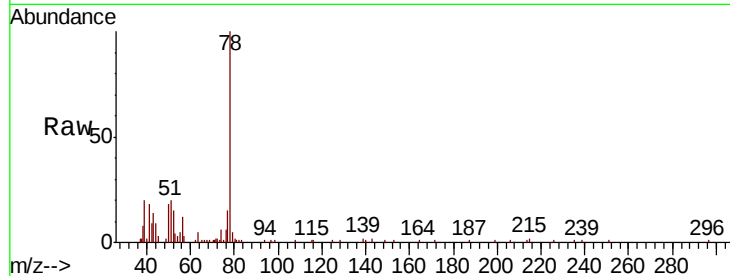
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Apr 2021 11:15

Tot Ion: 78 Resp: 59250

Ion	Ratio	Lower	Upper
78	100		
77	15.4	17.6	26.4#
50	17.8	16.3	24.5



#39

1,2-Dichloropropane

Concen: 0.167 ppbv

RT: 7.22 min Scan# 1378

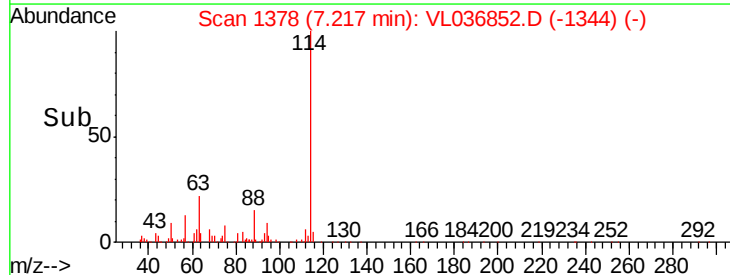
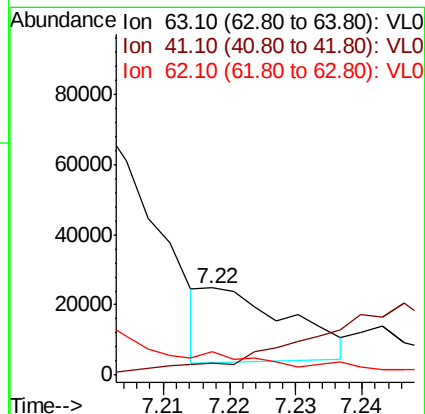
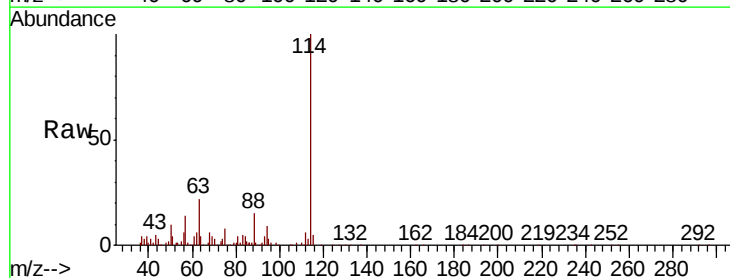
Delta R.T. -0.39 min

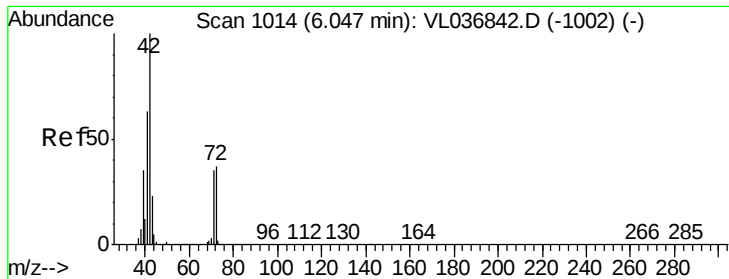
Lab File: VL036852.D

Acq: 27 Apr 2021 11:15

Tgt Ion: 63 Resp: 18885

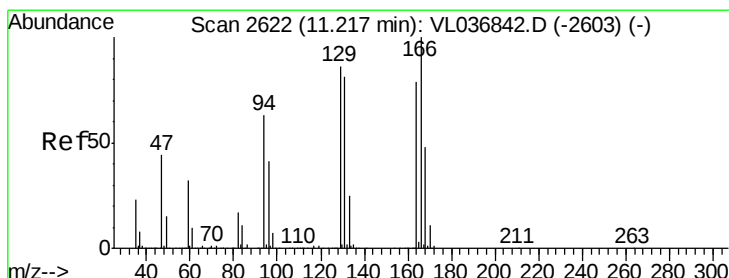
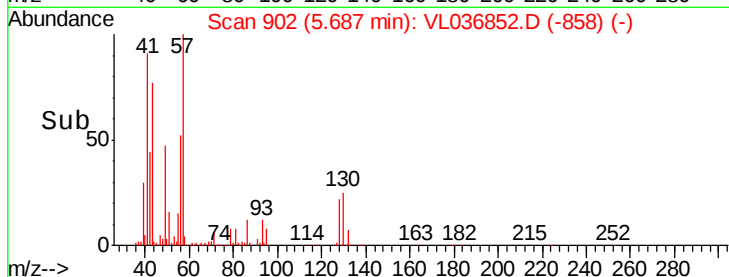
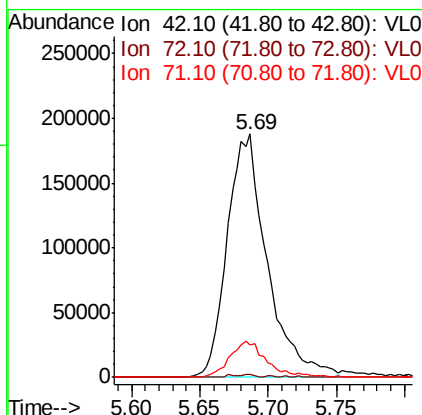
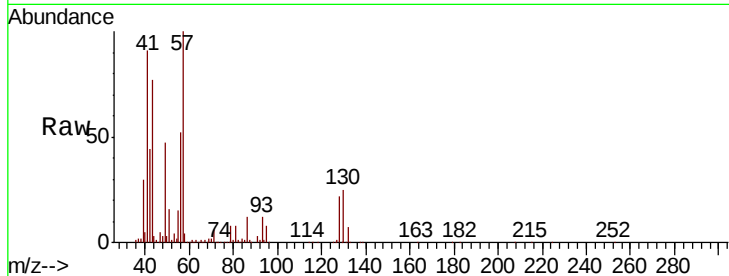
Ion	Ratio	Lower	Upper
63	100		
41	0.2	59.1	88.7#
62	19.9	56.9	85.3#





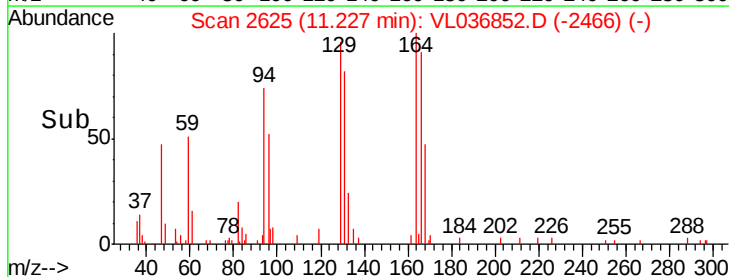
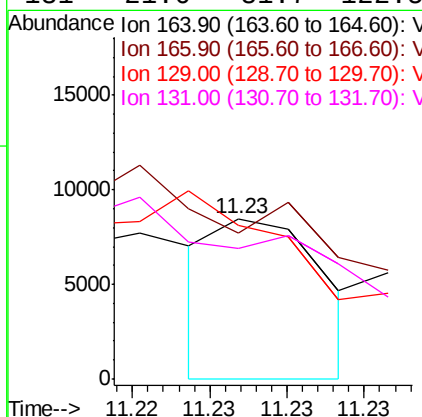
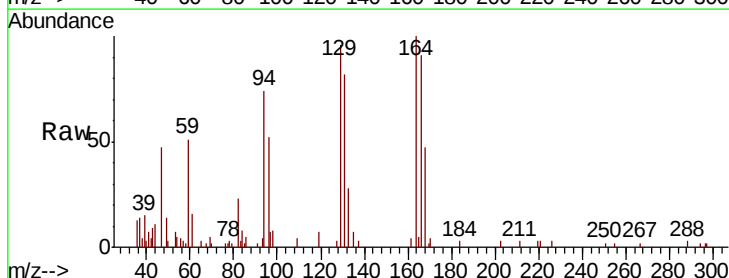
#41
Tetrahydrofuran
Concen: 5.928 ppbv
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Apr 2021 11:15

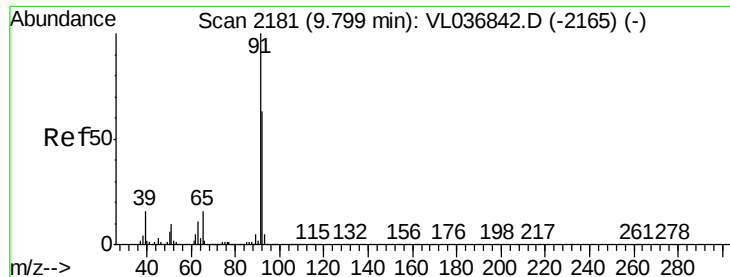
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.9	29.7	44.5#
71	14.1	29.0	43.6#



#52
Tetrachloroethene
Concen: 0.042 ppbv
RT: 11.23 min Scan# 2625
Delta R.T.: 0.01 min
Lab File: VL036852.D
Acq: 27 Apr 2021 11:15

Tgt Ion	Ratio	Lower	Upper
164	100		
166	33.7	100.9	151.3#
129	94.9	87.0	130.4
131	21.6	81.7	122.5#





#53

Toluene

Concen: 0.884 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

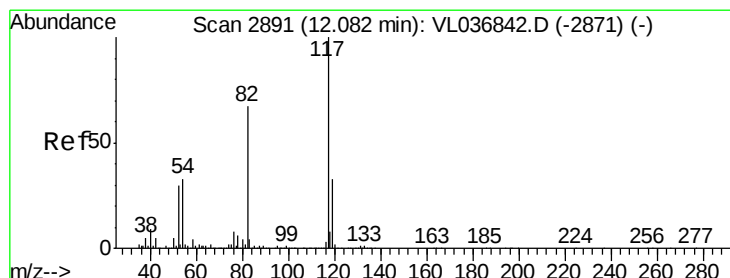
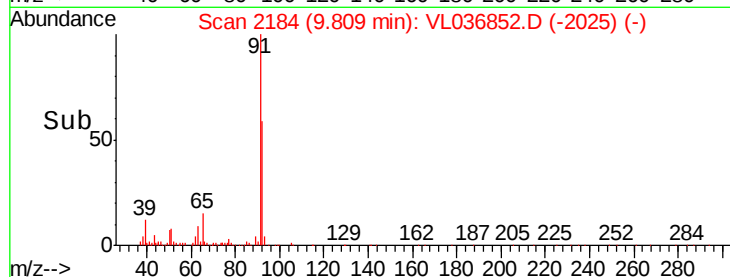
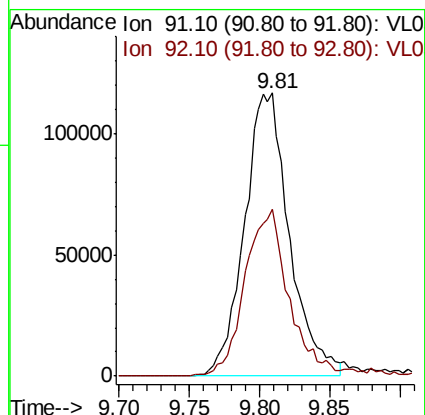
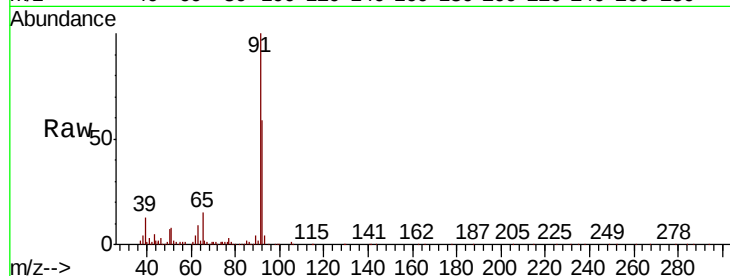
Acq: 27 Apr 2021 11:15

Tot Ion: 91 Resp: 260634

Ion Ratio Lower Upper

91 100

92 59.4 49.0 73.4



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2891

Delta R.T. -0.00 min

Lab File: VL036852.D

Acq: 27 Apr 2021 11:15

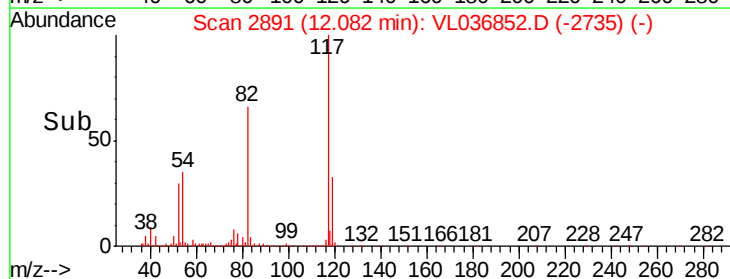
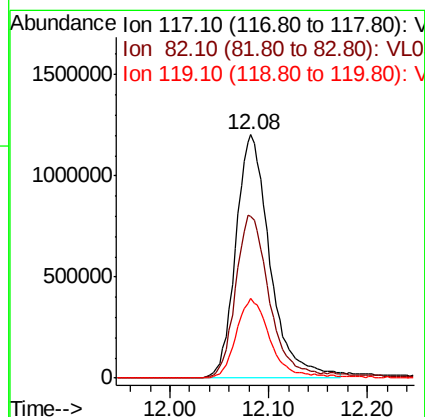
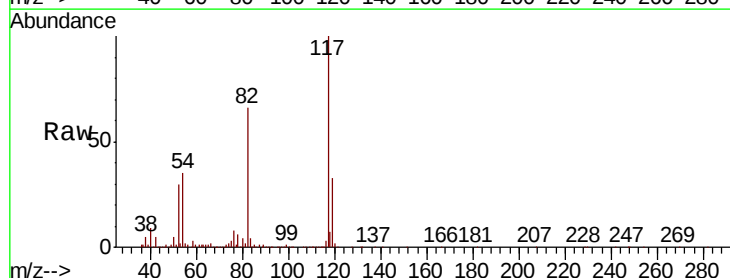
Tgt Ion: 117 Resp: 2898552

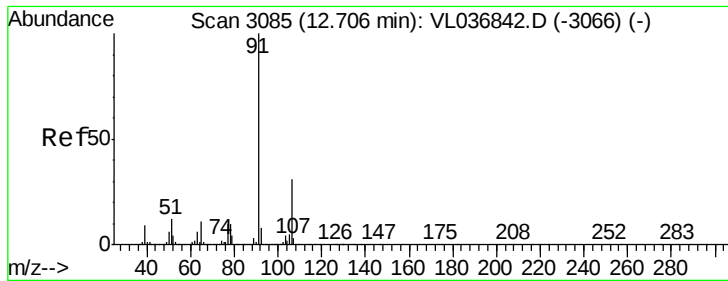
Ion Ratio Lower Upper

117 100

82 68.8 53.5 80.3

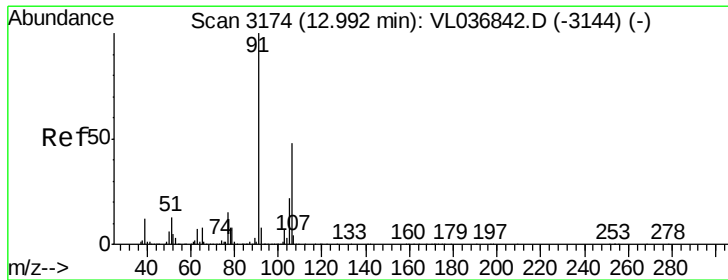
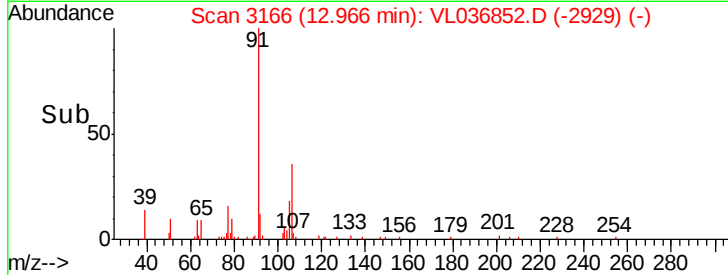
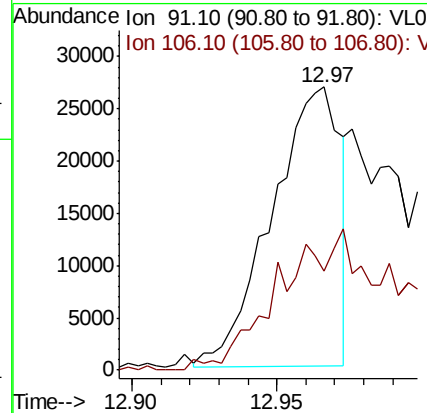
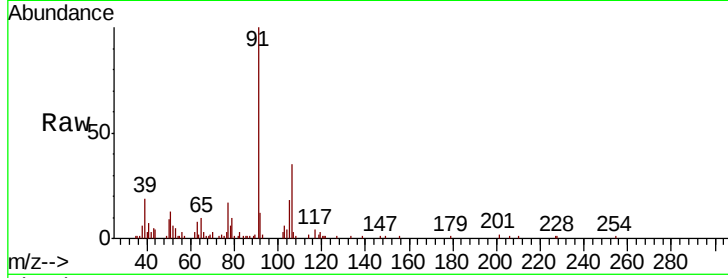
119 33.4 25.6 38.4





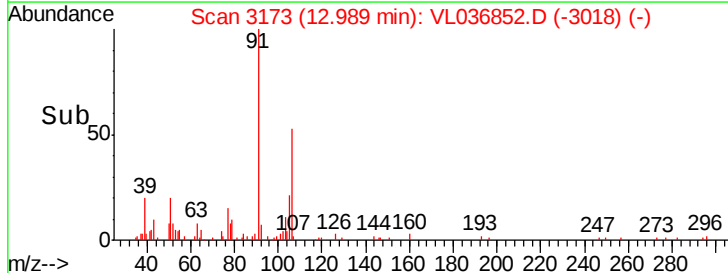
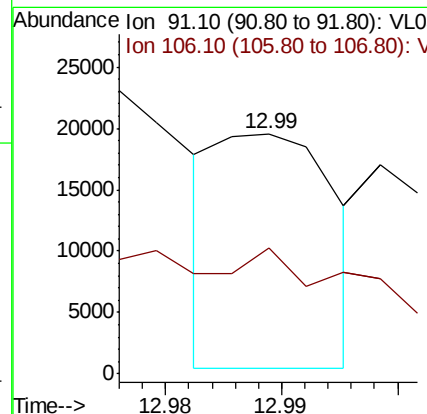
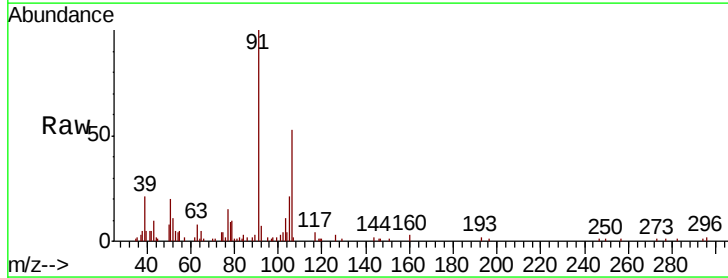
#58
Ethyl Benzene
Concen: 0.119 ppbv
RT: 12.97 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Apr 2021 11:15

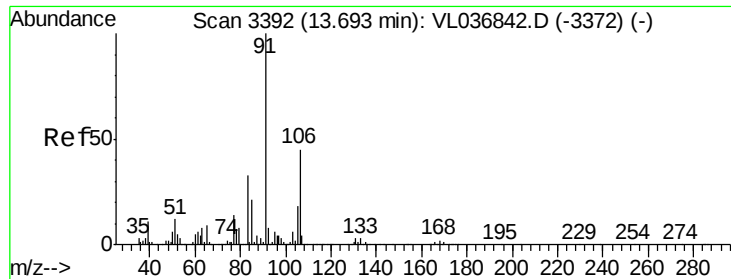
Tot Ion: 91 Resp: 43924
Ion Ratio Lower Upper
91 100
106 32.1 25.1 37.7



#59
m/p-Xylene
Concen: 0.041 ppbv
RT: 12.99 min Scan# 3173
Delta R.T. -0.00 min
Lab File: VL036852.D
Acq: 27 Apr 2021 11:15

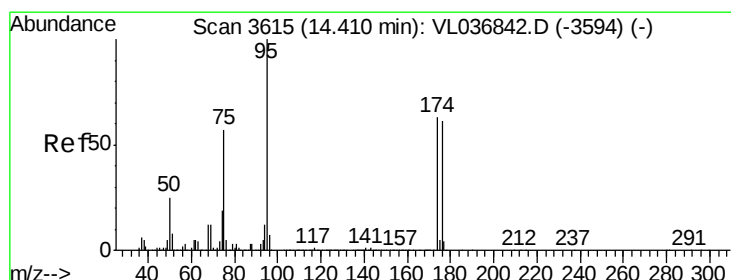
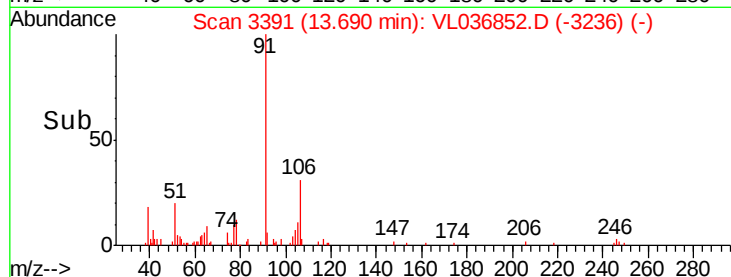
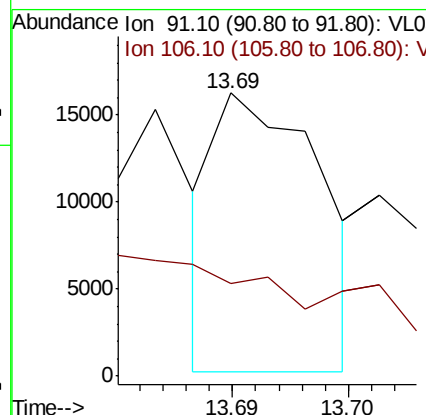
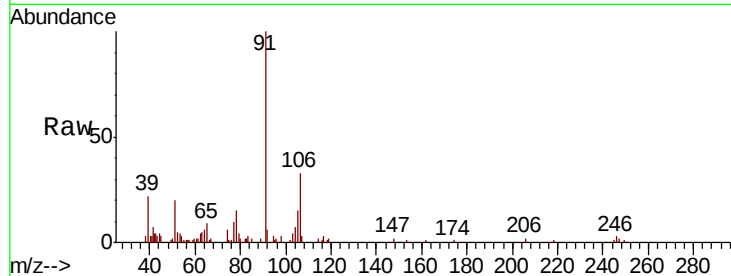
Tgt Ion: 91 Resp: 13352
Ion Ratio Lower Upper
91 100
106 0.0 35.8 53.6#





#60
o-Xylene
Concen: 0.032 ppbv
RT: 13.69
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 27 Apr 2021 11:15

Tot Ion: 91 Resp: 10134
Ion Ratio Lower Upper
91 100
106 0.0 22.6 67.7#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.196 ppbv
RT: 14.41 min Scan# 3616
Delta R.T. 0.00 min
Lab File: VL036852.D
Acq: 27 Apr 2021 11:15

Tgt Ion: 95 Resp: 2372311
Ion Ratio Lower Upper
95 100
174 64.6 52.2 78.2
175 4.9 4.0 6.0

