

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042021\
 Data File : VL036837.D
 Acq On : 21 Apr 2021 00:56
 Operator : SY/AP
 Sample : M2096-04 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 21 06:40:05 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1187901	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2891433	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2550329	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2026624	9.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.70%

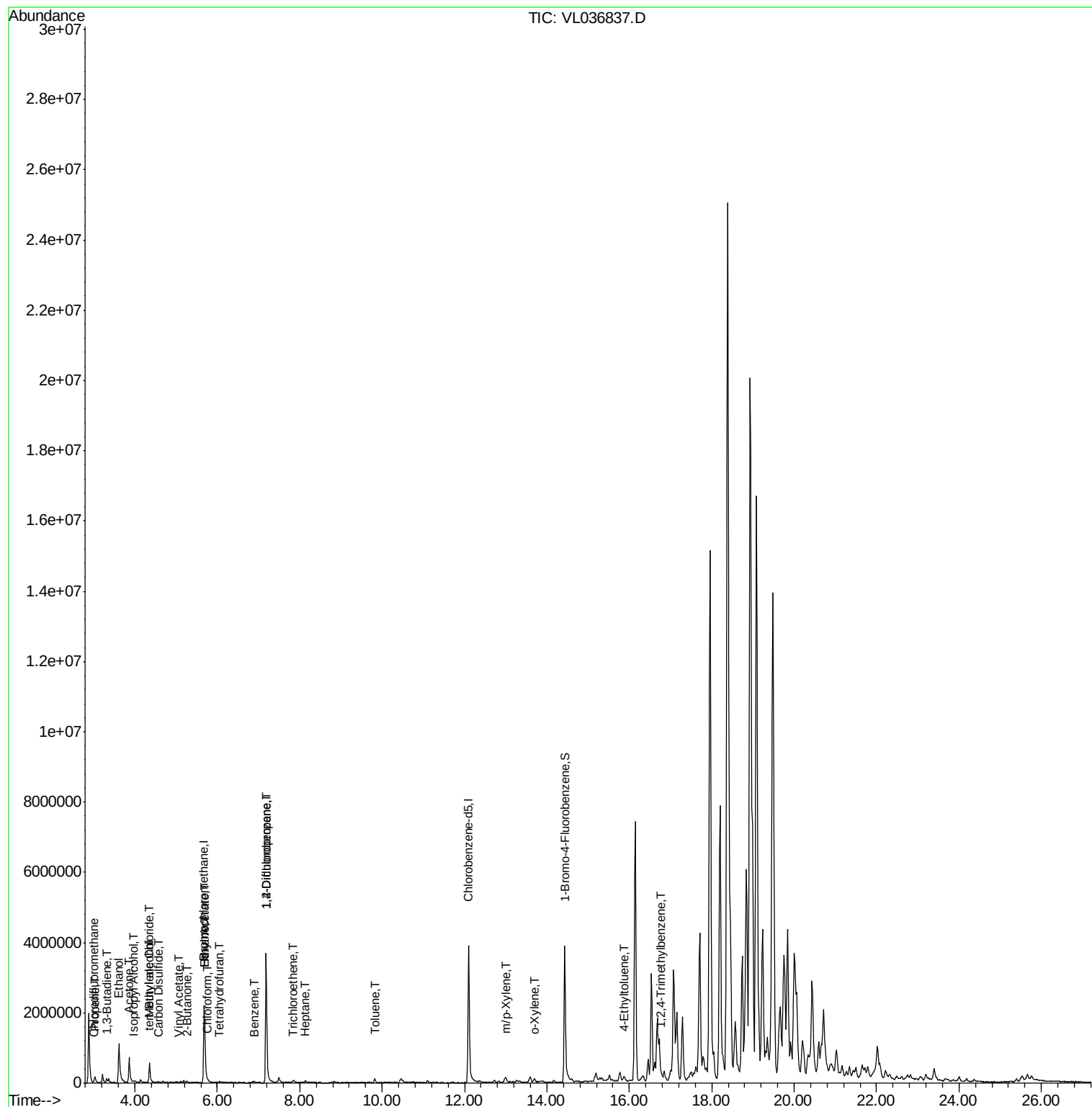
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chlorodifluoromethane	2.99	51	19268	0.087	ppbv	95
9) Propene	3.02	41	29119	0.412	ppbv #	7
10) Heptane	8.13	43	11880	0.066	ppbv #	53
13) Ethanol	3.61	45	1536258	182.330	ppbv	97
15) Acetone	3.86	43	998502	8.540	ppbv	98
16) 1,3-Butadiene	3.31	39	41213	0.506	ppbv #	44
17) tert-Butyl alcohol	4.33	59	5948	0.058	ppbv #	72
19) Isopropyl Alcohol	3.98	45	20309	0.316	ppbv #	1
20) Methylene Chloride	4.35	84	231157	4.223	ppbv	92
23) Vinyl Acetate	5.07	43	8655	0.043	ppbv #	78
25) Ethyl Acetate	5.70	43	214255	0.771	ppbv #	79
26) Hexane	5.70	57	275510	2.136	ppbv #	45
27) Carbon Disulfide	4.56	76	27722	0.218	ppbv #	93
29) Chloroform	5.76	83	6865	0.033	ppbv	95
34) 2-Butanone	5.27	43	54759	0.388	ppbv #	90
36) Benzene	6.90	78	15619	0.059	ppbv #	81
38) Trichloroethene	7.84	130	17023	0.164	ppbv	98
39) 1,2-Dichloropropane	7.18	63	766006	7.081	ppbv #	23
41) Tetrahydrofuran	6.06	42	4611	0.071	ppbv #	67
53) Toluene	9.83	91	91854	0.323	ppbv	100
59) m/p-Xylene	13.01	91	17896	0.055	ppbv #	32
60) o-Xylene	13.71	91	41935	0.134	ppbv #	31
72) 4-Ethyltoluene	15.86	105	16078	0.047	ppbv #	30
74) 1,2,4-Trimethylbenzene	16.78	105	56879	0.166	ppbv #	64

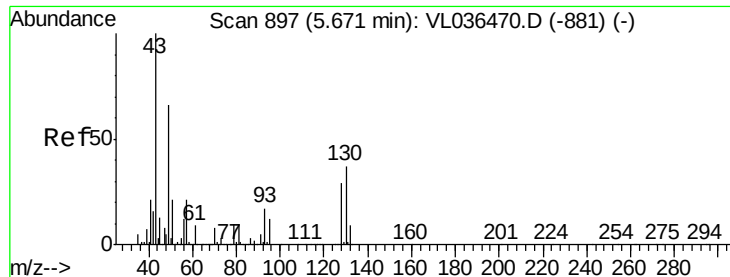
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL042021\
Data File : VL036837.D
Acq On : 21 Apr 2021 00:56
Operator : SY/AP
Sample : M2096-04 4X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Apr 21 06:40:05 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
QLast Update : Thu Mar 25 09:42:40 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Apr 2021 00:50

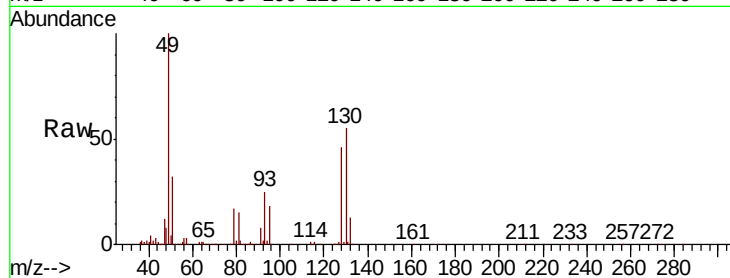
Tot Ion: 49 Resp: 1187901

Ion	Ratio	Lower	Upper
49	100		
128	47.3	23.5	70.6
130	60.2	29.1	87.4

49 100

128 47.3 23.5 70.6

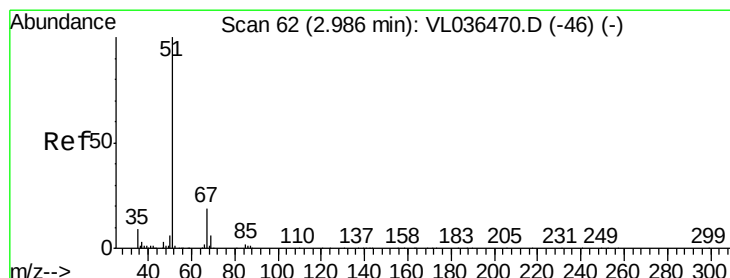
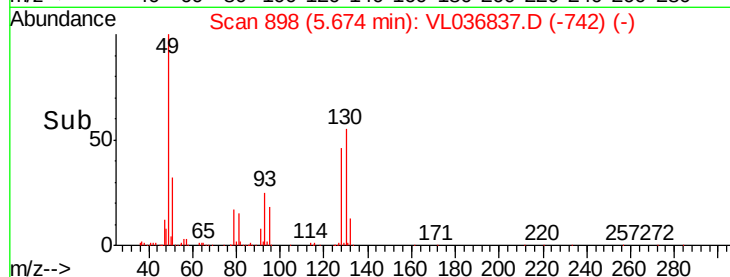
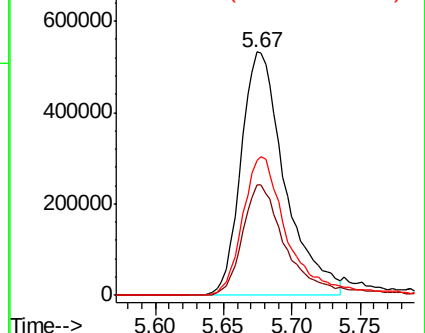
130 60.2 29.1 87.4



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



#3

Chlorodifluoromethane

Concen: 0.087 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.01 min

Lab File: VL036837.D

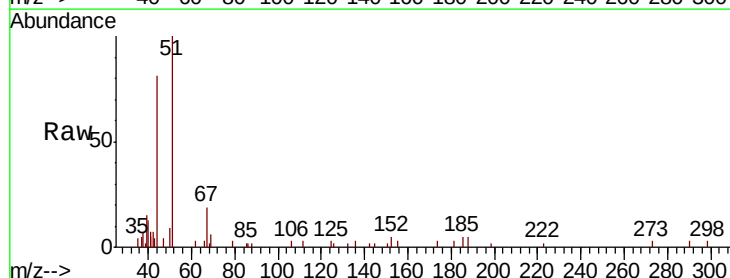
Acq: 21 Apr 2021 00:56

Tgt Ion: 51 Resp: 19268

Ion	Ratio	Lower	Upper
51	100		
67	16.2	14.7	22.1

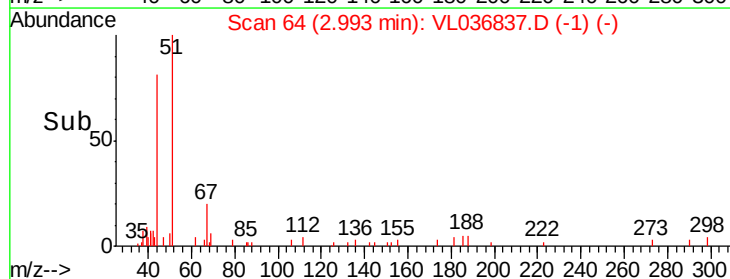
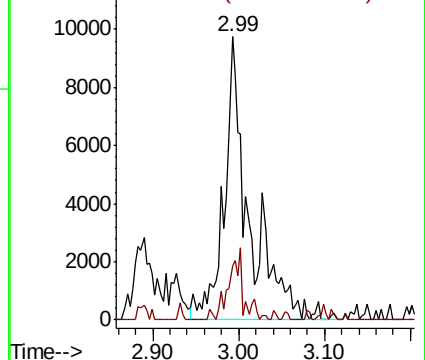
51 100

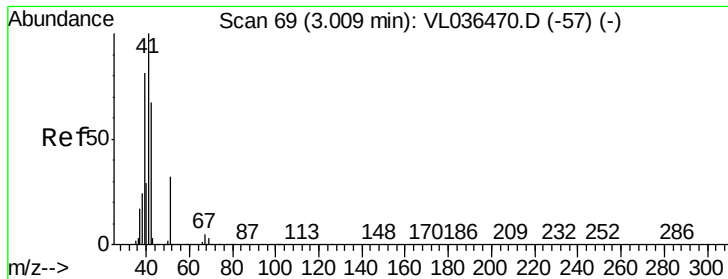
67 16.2 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.412 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File:

Acq: 21 Apr 2021 00:50

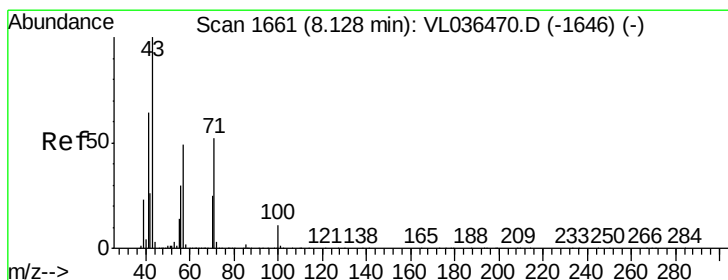
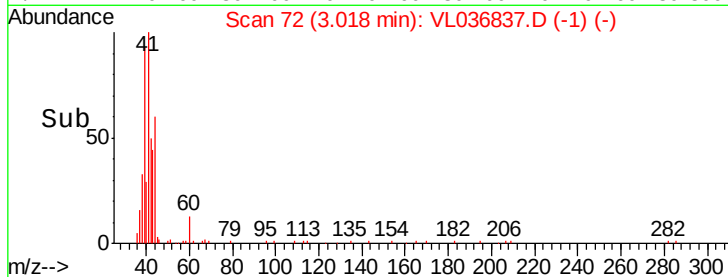
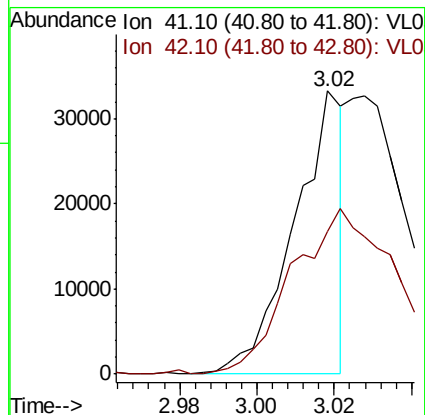
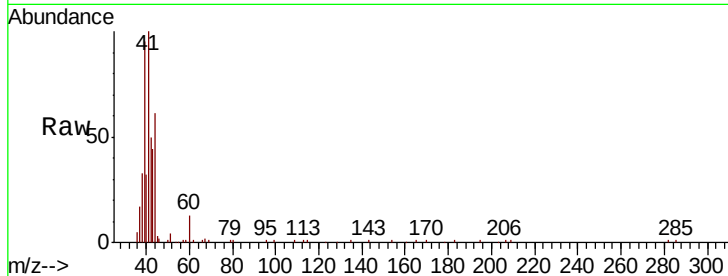
ClientSampleId:

Tot Ion: 41 Resp: 29119

Ion Ratio Lower Upper

41 100

42 148.4 57.0 85.4#



#10

Heptane

Concen: 0.066 ppbv

RT: 8.13 min Scan# 1663

Delta R.T. 0.01 min

Lab File: VL036837.D

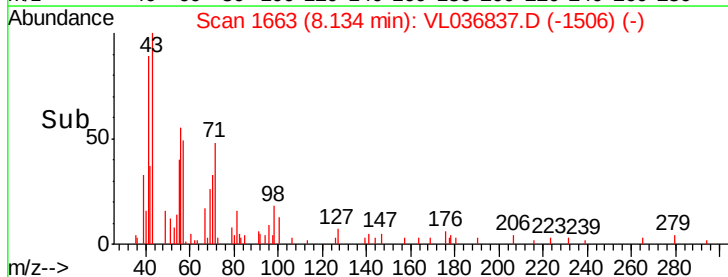
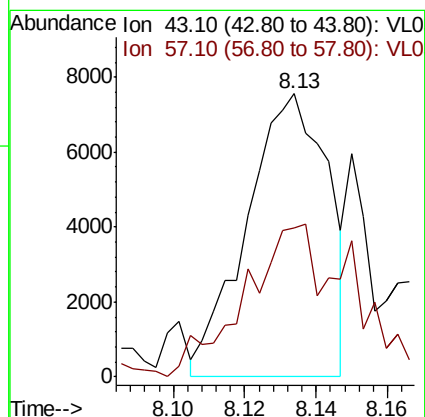
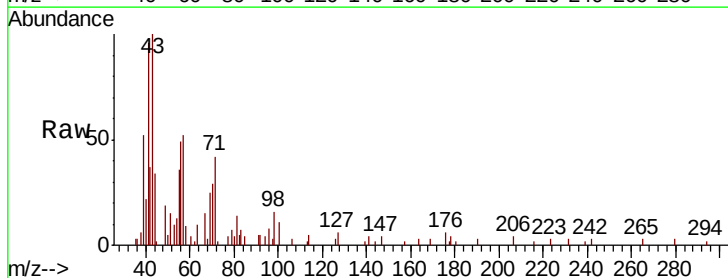
Acq: 21 Apr 2021 00:56

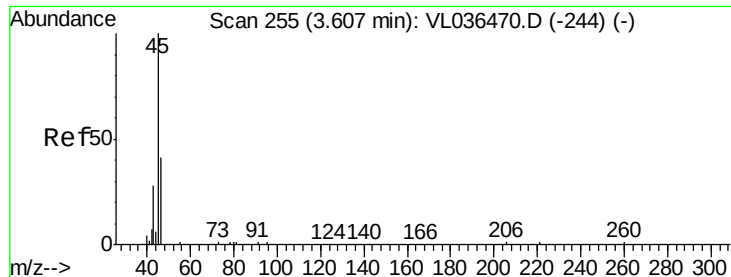
Tgt Ion: 43 Resp: 11880

Ion Ratio Lower Upper

43 100

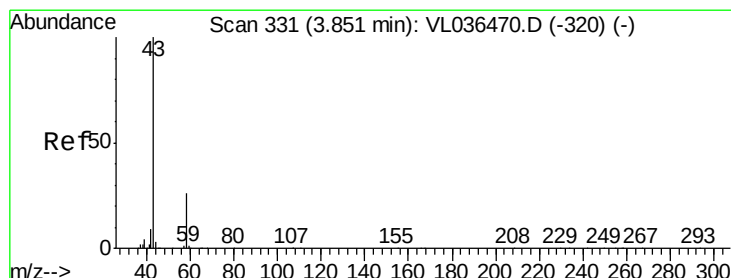
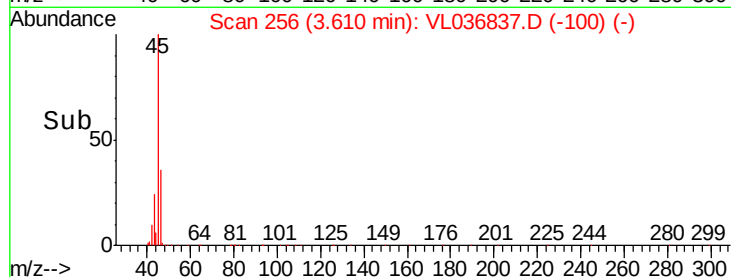
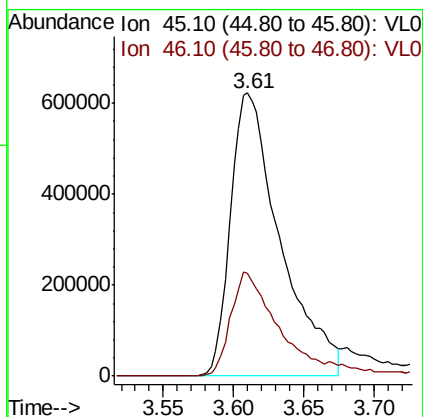
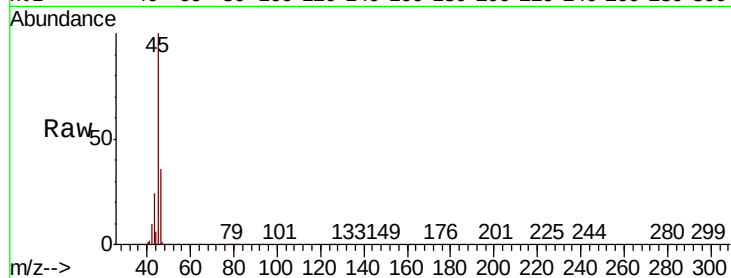
57 80.5 39.0 58.6#





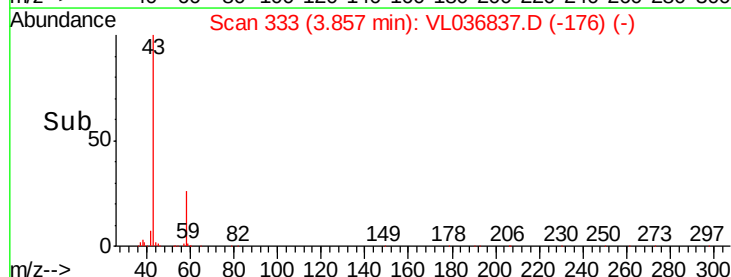
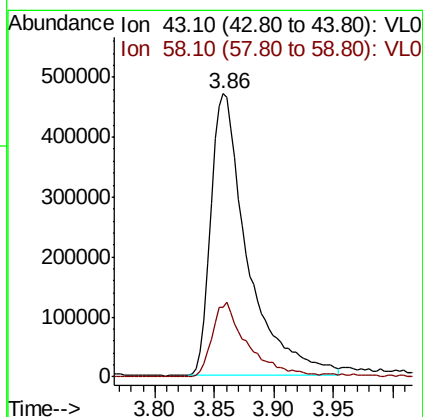
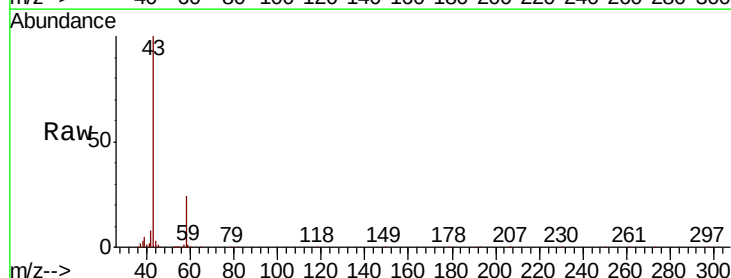
#13
 Ethanol
 Concen: 182.330 ppbv
 RT: 3.61
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 21 Apr 2021 00:50

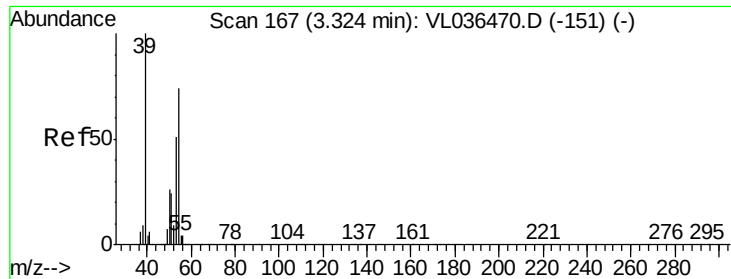
Tot Ion: 45 Resp: 1536258
 Ion Ratio Lower Upper
 45 100
 46 39.3 16.6 66.2



#15
 Acetone
 Concen: 8.540 ppbv
 RT: 3.86 min Scan# 333
 Delta R.T. 0.01 min
 Lab File: VL036837.D
 Acq: 21 Apr 2021 00:56

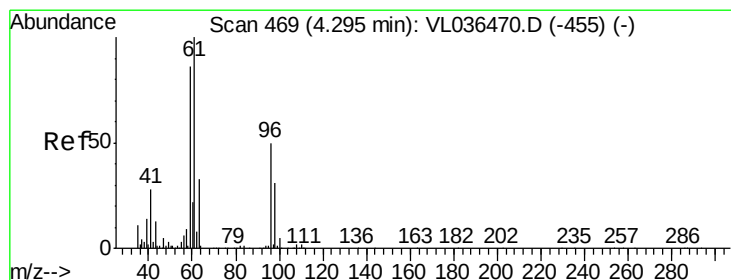
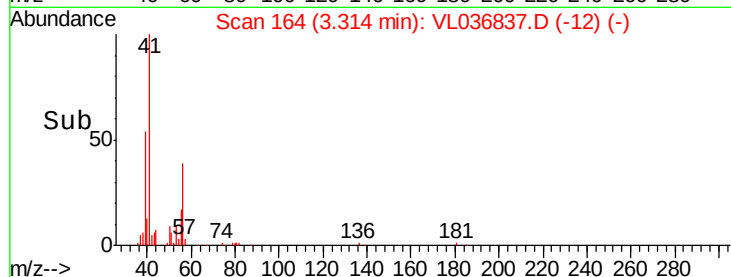
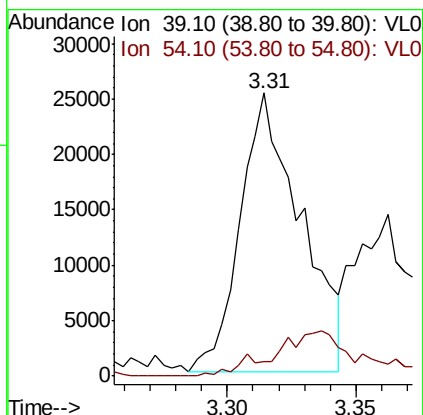
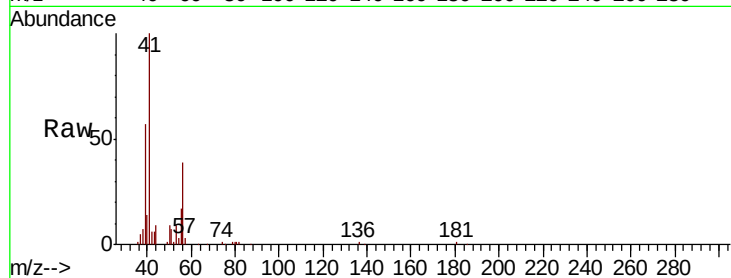
Tgt Ion: 43 Resp: 998502
 Ion Ratio Lower Upper
 43 100
 58 27.7 21.2 31.8





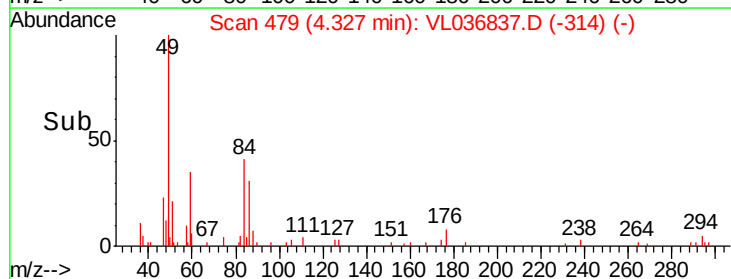
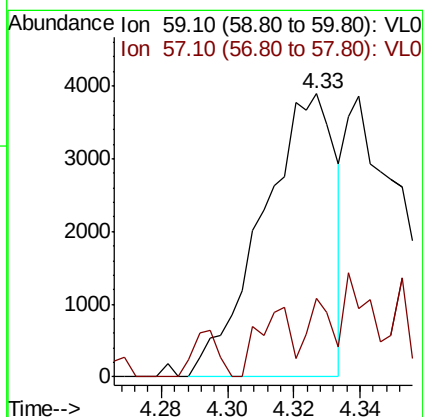
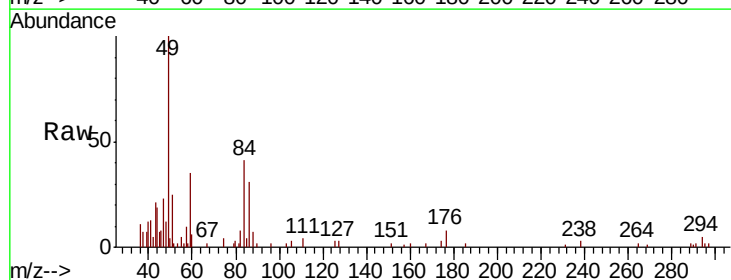
#16
 1,3-Butadiene
 Concen: 0.506 ppbv
 RT: 3.31
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 21 Apr 2021 00:50

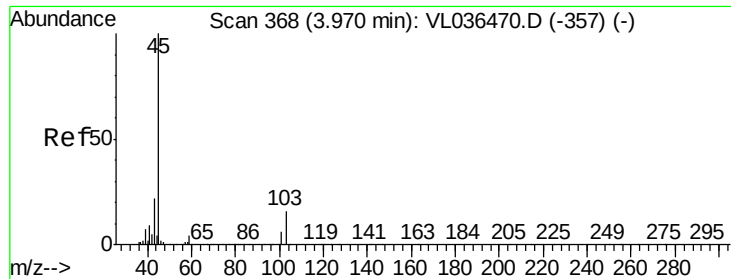
Tot Ion: 39 Resp: 41213
 Ion Ratio Lower Upper
 39 100
 54 26.3 58.8 88.2#



#17
 tert-Butyl alcohol
 Concen: 0.058 ppbv
 RT: 4.33 min Scan# 479
 Delta R.T. 0.03 min
 Lab File: VL036837.D
 Acq: 21 Apr 2021 00:56

Tgt Ion: 59 Resp: 5948
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.6 12.8#





#19

Isopropyl Alcohol

Concen: 0.316 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

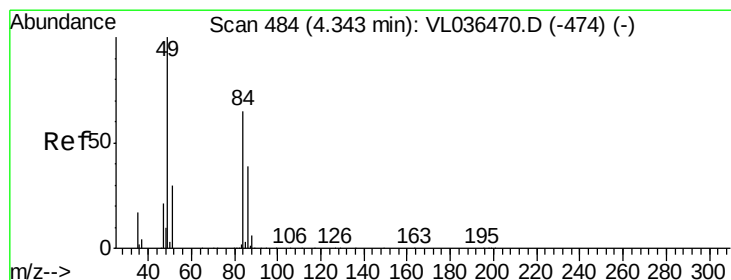
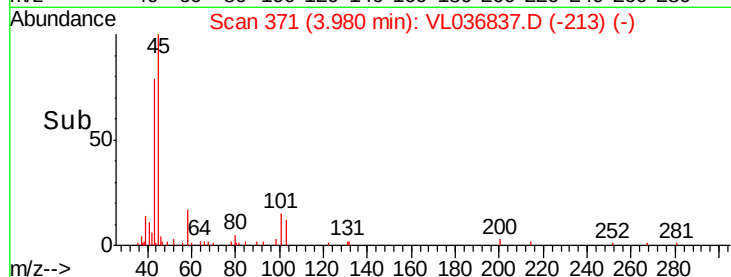
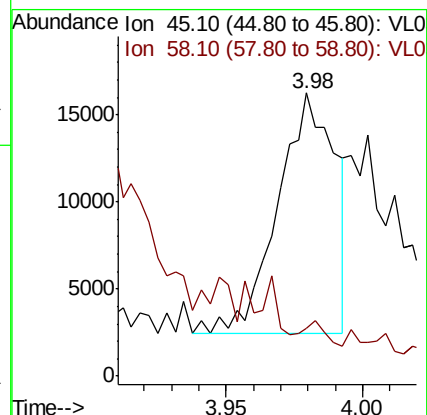
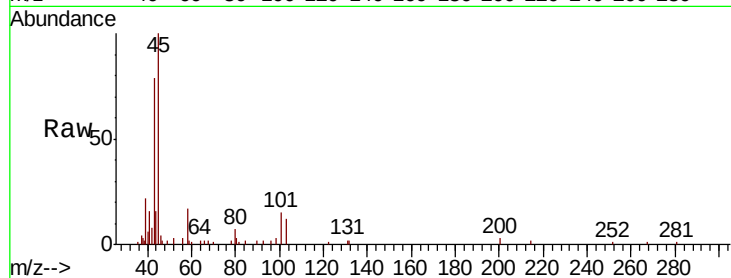
Acq: 21 Apr 2021 00:50

Tot Ion: 45 Resp: 20309

Ion Ratio Lower Upper

45 100

58 1347.6 2.9 4.3#



#20

Methylene Chloride

Concen: 4.223 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.01 min

Lab File: VL036837.D

Acq: 21 Apr 2021 00:56

Tgt Ion: 84 Resp: 231157

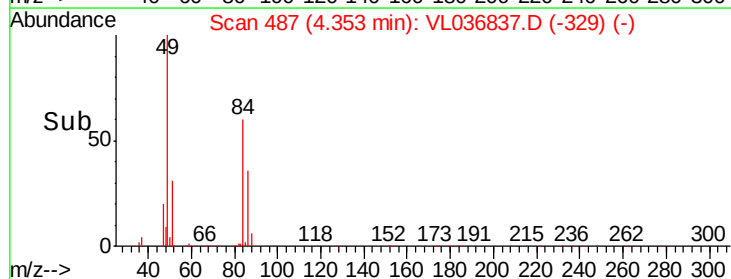
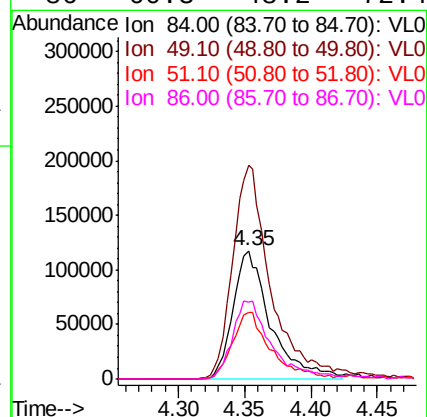
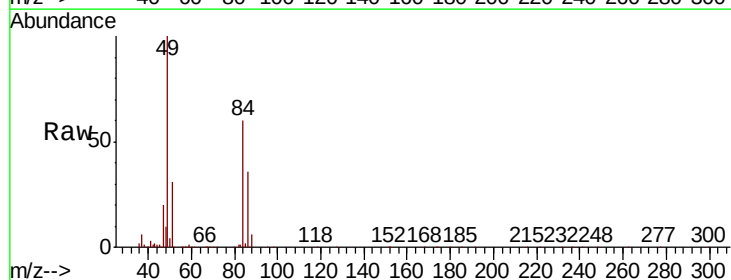
Ion Ratio Lower Upper

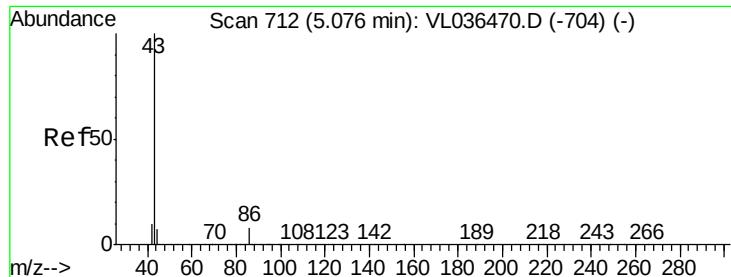
84 100

49 166.8 122.9 184.3

51 51.6 36.9 55.3

86 60.3 48.2 72.4





#23

Vinyl Acetate

Concen: 0.043 ppbv

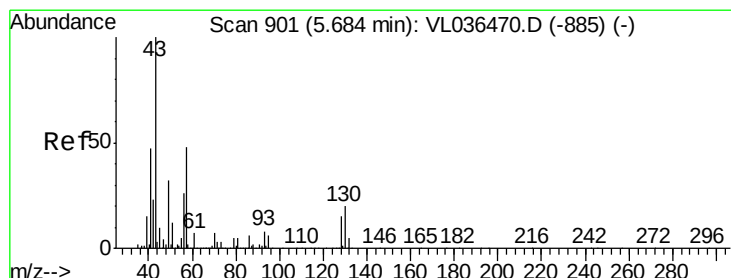
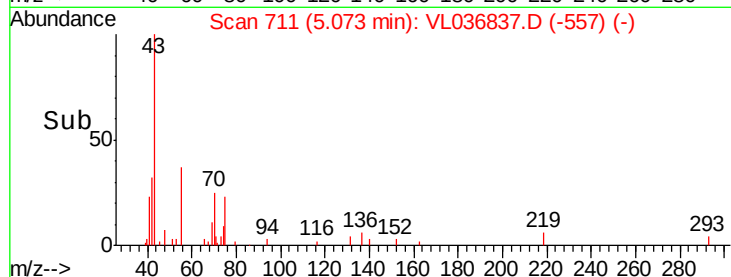
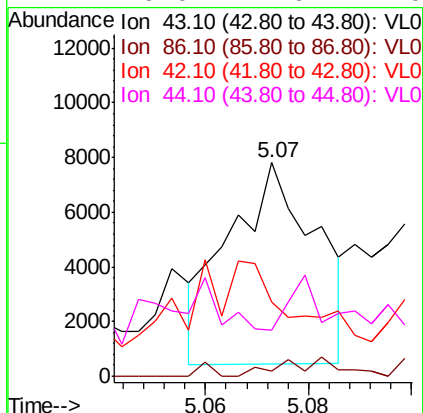
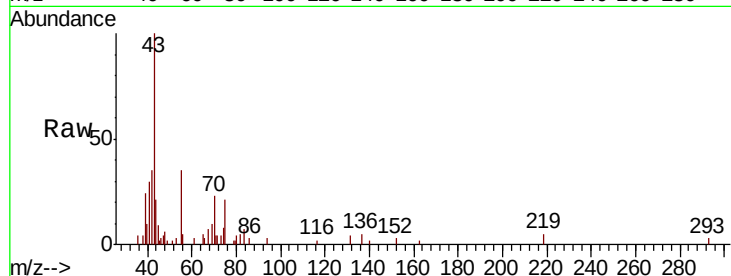
RT: 5.07 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 21 Apr 2021 00:50

Tot Ion:	43	Resp:	8655
Ion	Ratio	Lower	Upper
43	100		
86	4.8	5.4	8.0#
42	23.4	8.5	12.7#
44	0.0	4.6	7.0#



#25

Ethyl Acetate

Concen: 0.771 ppbv

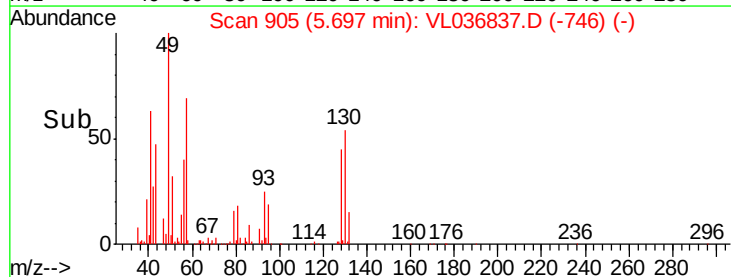
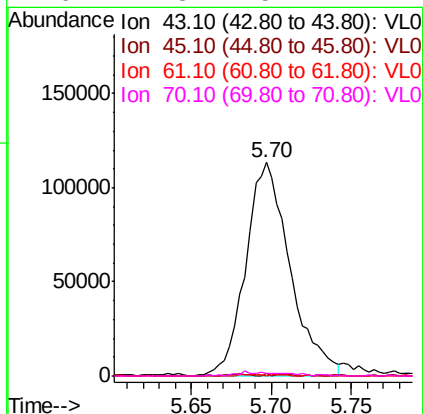
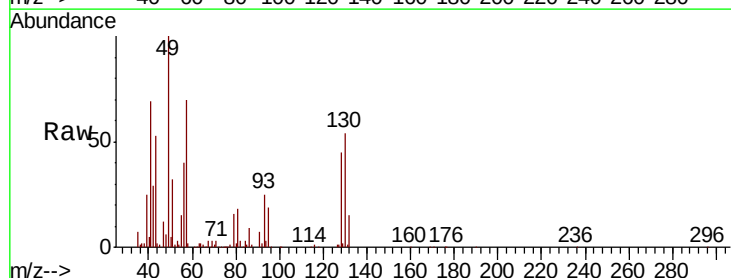
RT: 5.70 min Scan# 905

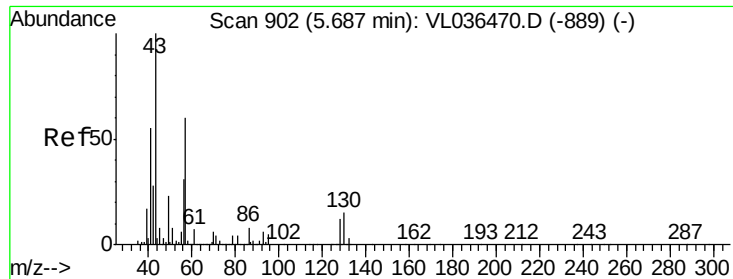
Delta R.T. 0.01 min

Lab File: VL036837.D

Acq: 21 Apr 2021 00:56

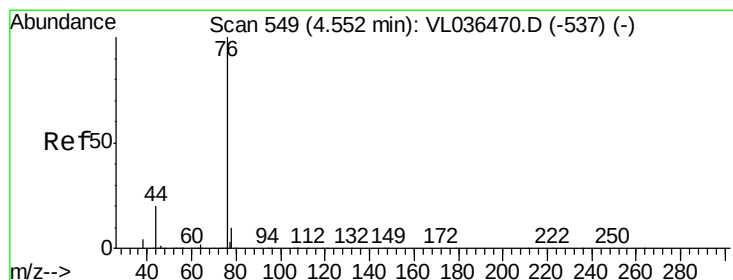
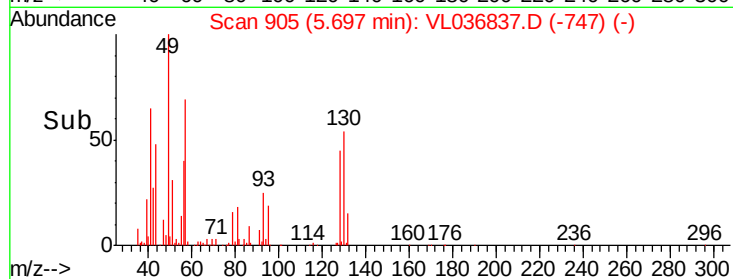
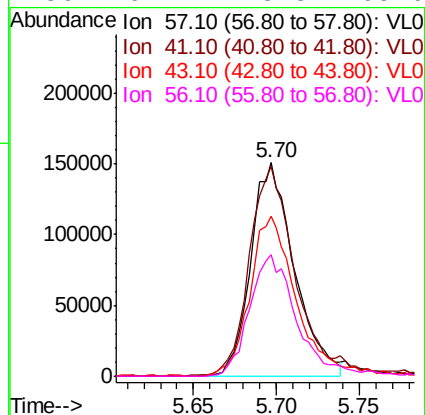
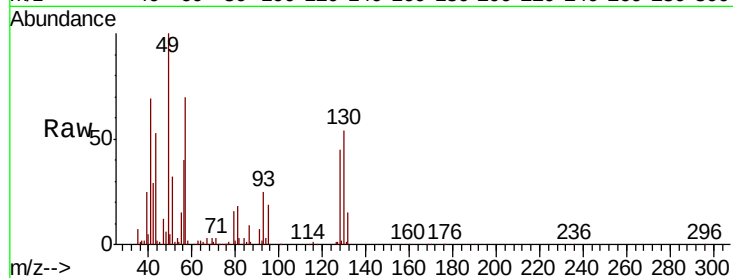
Tgt Ion:	43	Resp:	214255
Ion	Ratio	Lower	Upper
43	100		
45	1.2	7.9	11.9#
61	0.0	7.4	11.2#
70	2.3	5.1	7.7#





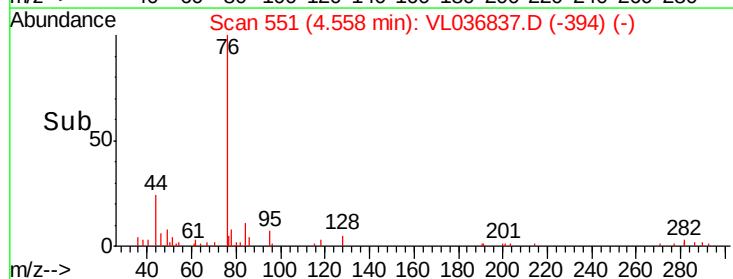
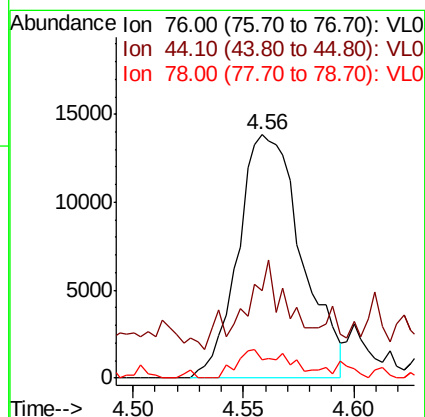
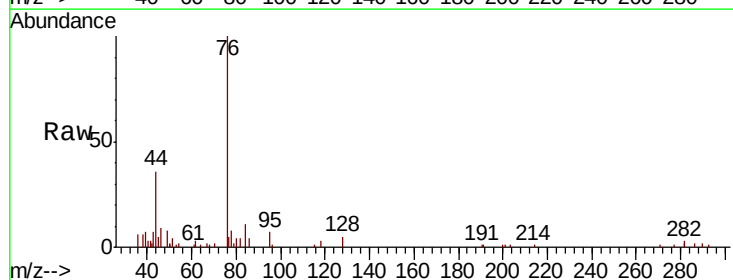
#26
Hexane
Concen: 2.136 ppbv
RT: 5.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 21 Apr 2021 00:50

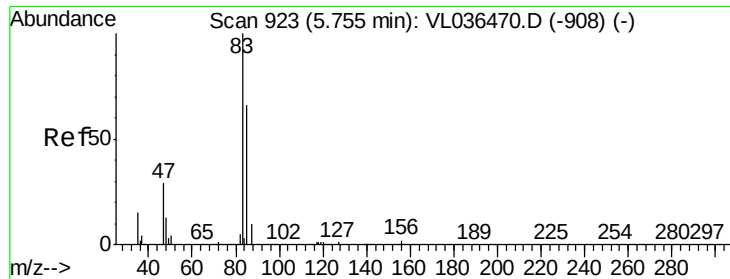
Tot Ion:	57	Resp:	275510
Ion	Ratio	Lower	Upper
57	100		
41	106.5	77.2	115.8
43	81.2	173.8	260.6#
56	62.4	43.8	65.6



#27
Carbon Disulfide
Concen: 0.218 ppbv
RT: 4.56 min Scan# 551
Delta R.T. 0.01 min
Lab File: VL036837.D
Acq: 21 Apr 2021 00:56

Tgt Ion:	76	Resp:	27722
Ion	Ratio	Lower	Upper
76	100		
44	25.2	17.5	26.3
78	13.0	8.6	13.0#





#29

Chloroform

Concen: 0.033 ppbv

RT: 5.76 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

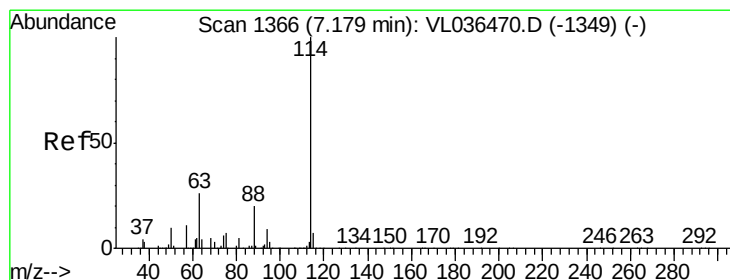
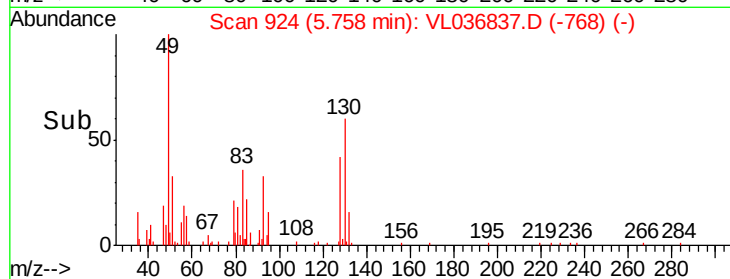
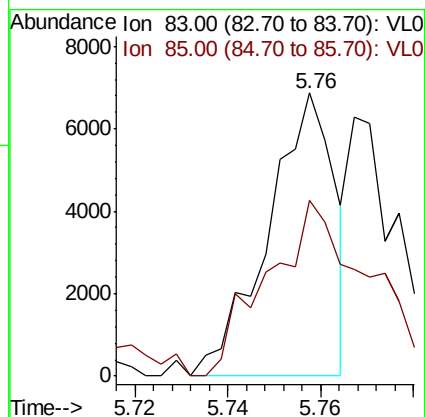
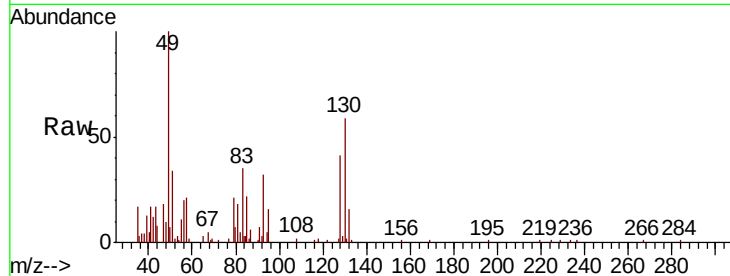
Acq: 21 Apr 2021 00:50

Tot Ion: 83 Resp: 6865

Ion Ratio Lower Upper

83 100

85 62.1 52.6 78.8



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. 0.01 min

Lab File: VL036837.D

Acq: 21 Apr 2021 00:56

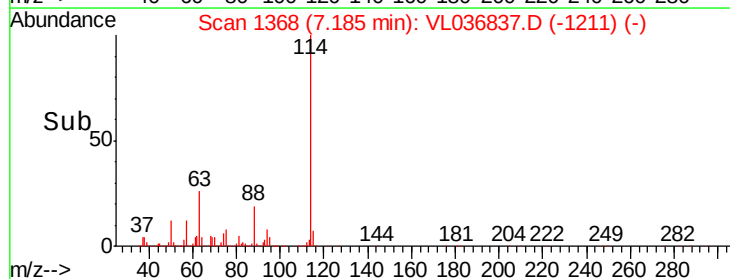
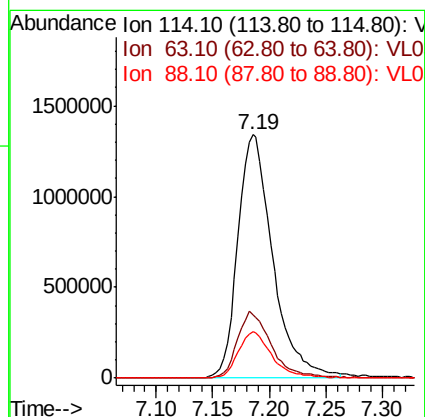
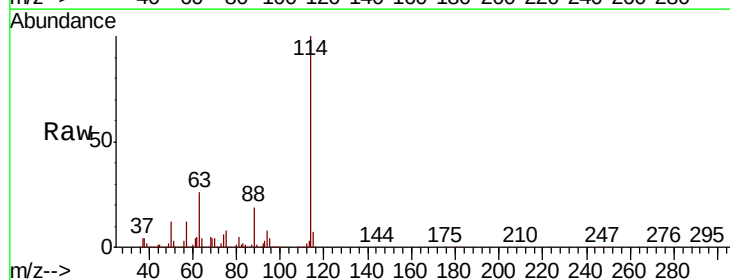
Tgt Ion: 114 Resp: 2891433

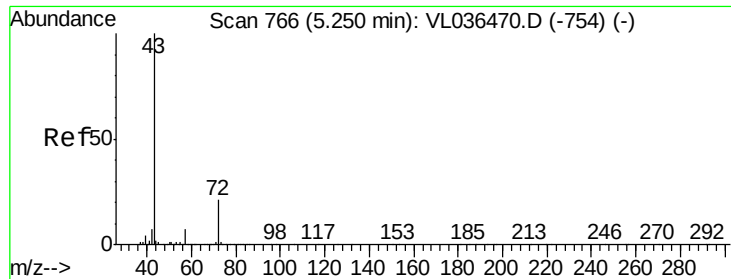
Ion Ratio Lower Upper

114 100

63 26.9 22.4 33.6

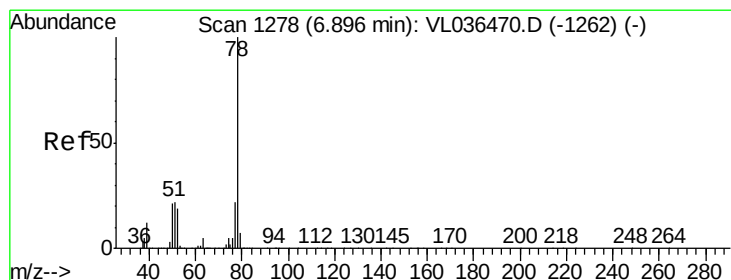
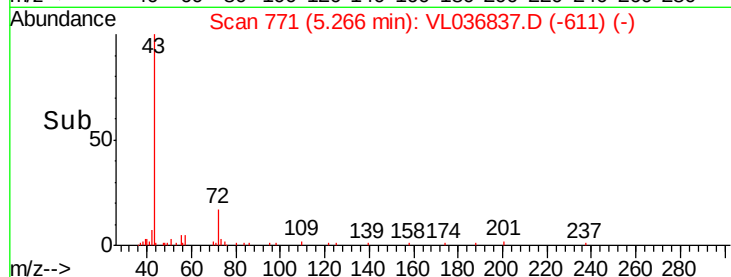
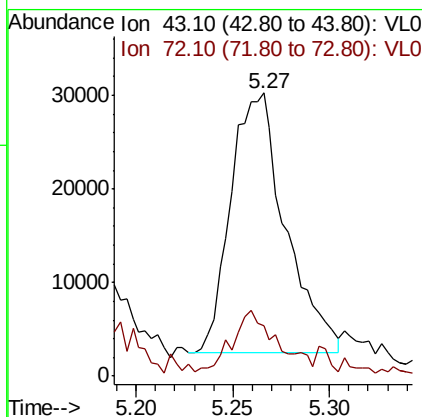
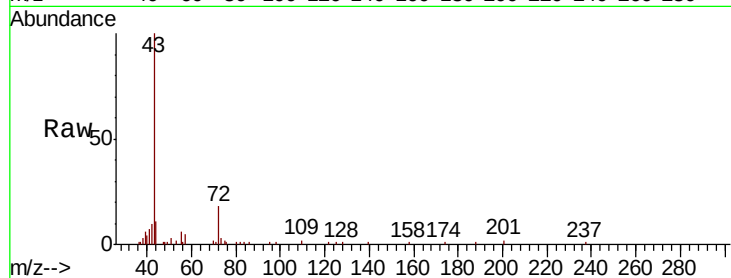
88 18.8 15.4 23.0





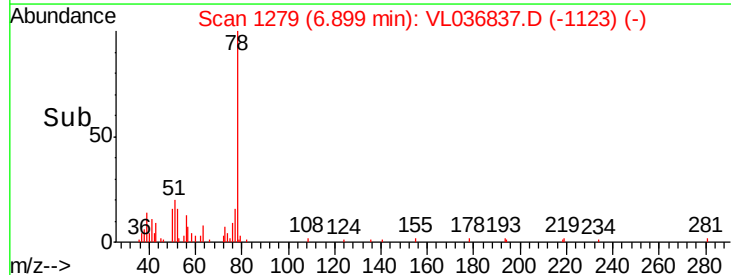
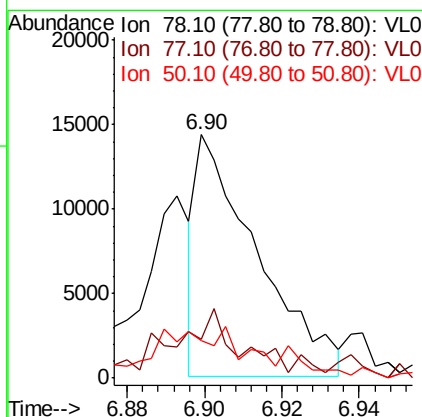
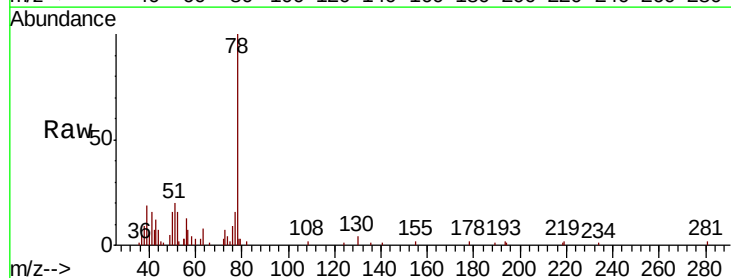
#34
 2-Butanone
 Concen: 0.388 ppbv
 RT: 5.27
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 21 Apr 2021 00:50

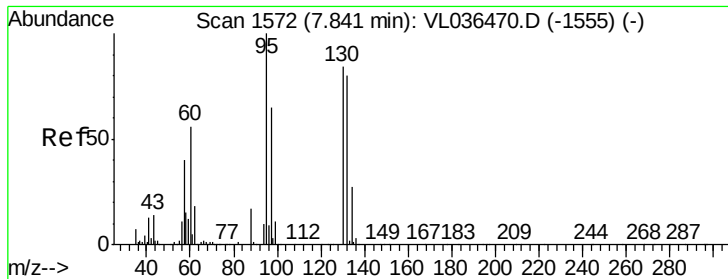
Tot Ion: 43 Resp: 54759
 Ion Ratio Lower Upper
 43 100
 72 26.1 17.0 25.6#



#36
 Benzene
 Concen: 0.059 ppbv
 RT: 6.90 min Scan# 1279
 Delta R.T. 0.00 min
 Lab File: VL036837.D
 Acq: 21 Apr 2021 00:56

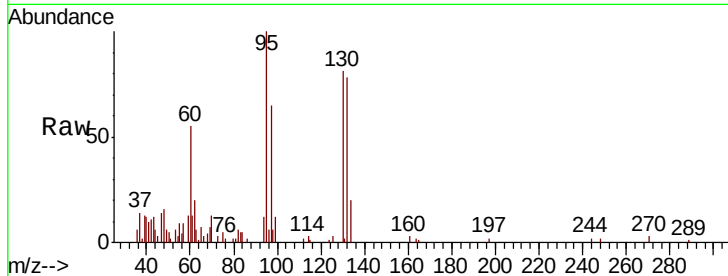
Tgt Ion: 78 Resp: 15619
 Ion Ratio Lower Upper
 78 100
 77 11.1 18.0 27.0#
 50 13.9 16.5 24.7#





#38
 Trichloroethene
 Concen: 0.164 ppbv
 RT: 7.84 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 21 Apr 2021 00:50

Tot Ion:	130	Resp:	17023
Ion	Ratio	Lower	Upper
130	100		
95	119.7	95.7	143.5
132	96.7	76.2	114.4
97	80.5	61.8	92.6



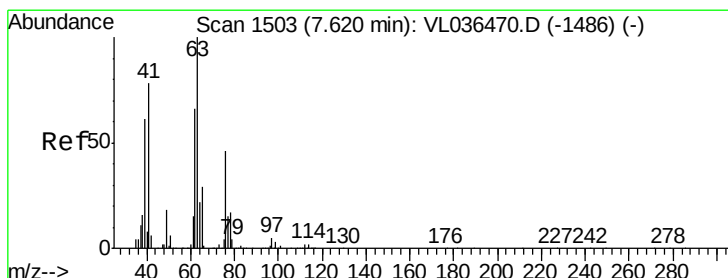
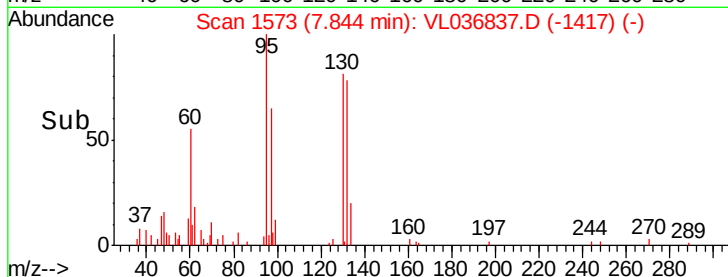
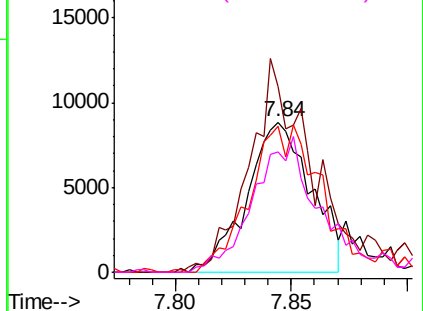
Abundance

Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

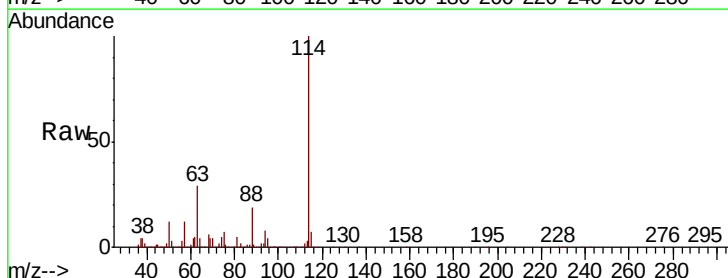
Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39
 1,2-Dichloropropane
 Concen: 7.081 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.44 min
 Lab File: VL036837.D
 Acq: 21 Apr 2021 00:56

Tgt Ion:	63	Resp:	766006
Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.4	93.6#
62	17.0	52.8	79.2#

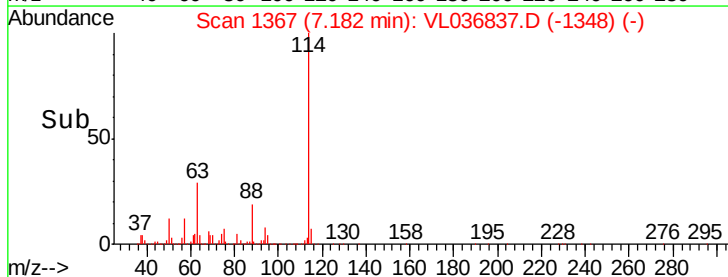
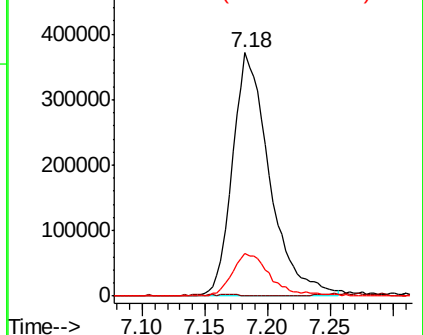


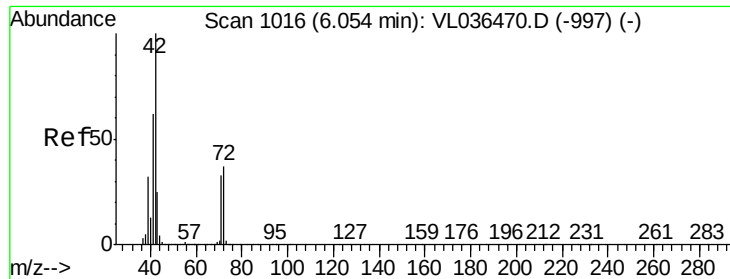
Abundance

Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

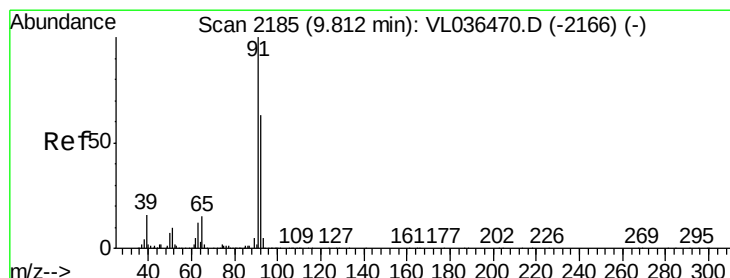
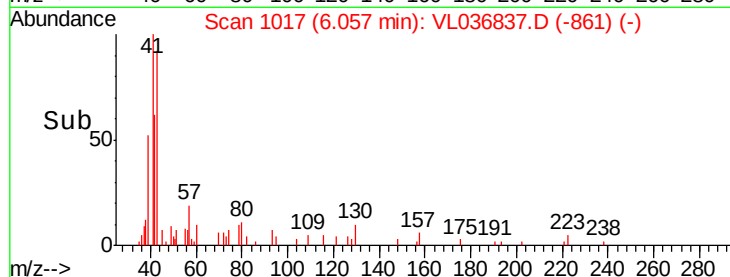
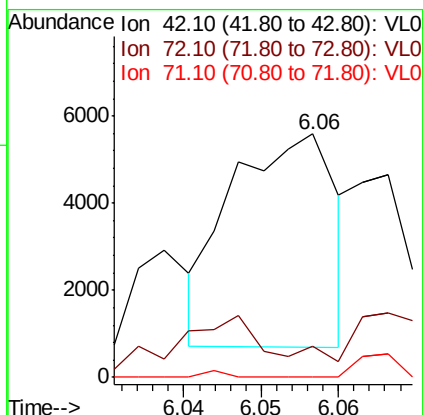
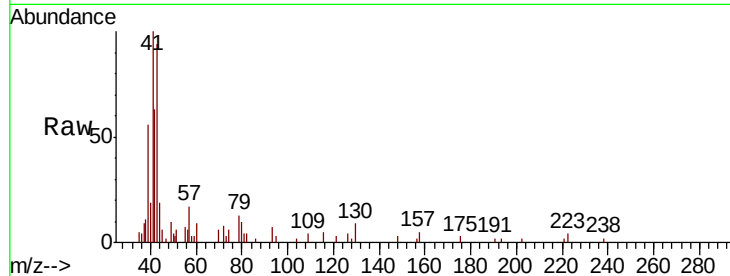
Ion 62.10 (61.80 to 62.80): VL0





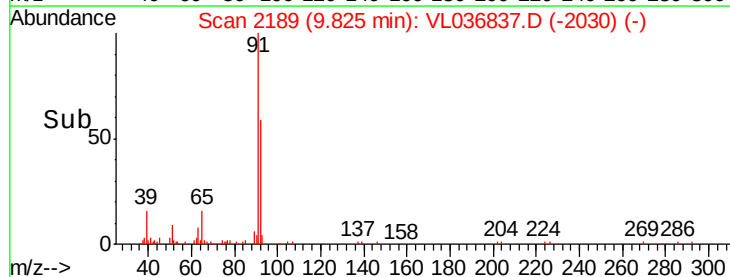
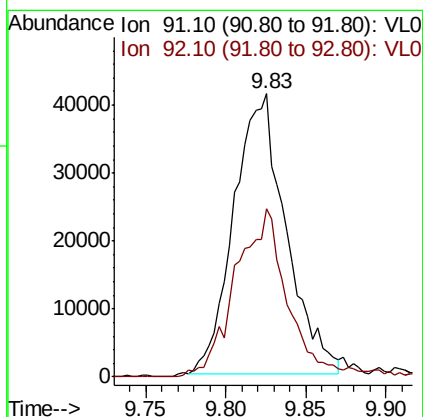
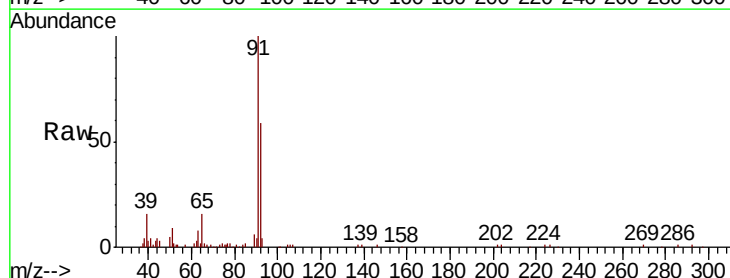
#41
Tetrahydrofuran
Concen: 0.071 ppbv
RT: 6.06 Instrument :
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 21 Apr 2021 00:50

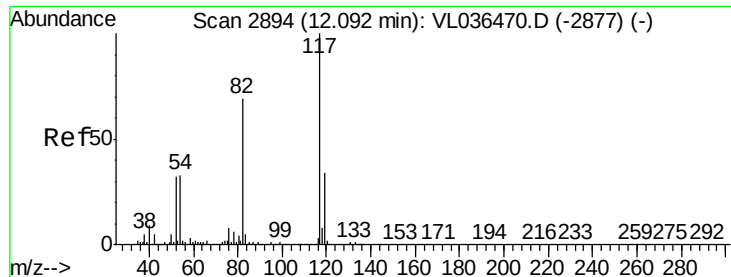
Tot Ion	Ratio	Lower	Upper
42	100		
72	30.3	27.6	41.4
71	0.0	27.0	40.4#



#53
Toluene
Concen: 0.323 ppbv
RT: 9.83 min Scan# 2189
Delta R.T. 0.01 min
Lab File: VL036837.D
Acq: 21 Apr 2021 00:56

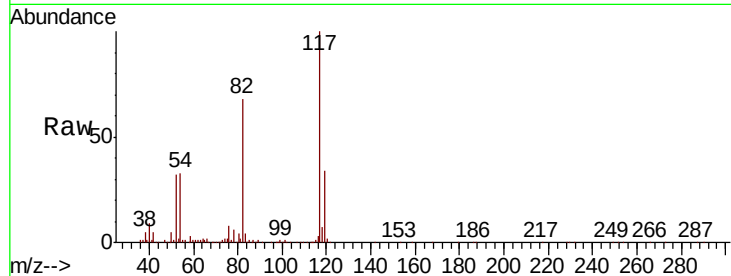
Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.1	48.8	73.2



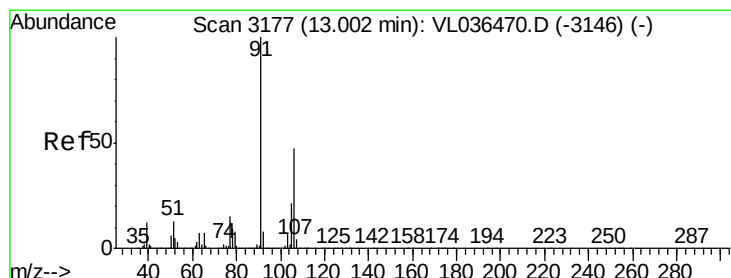
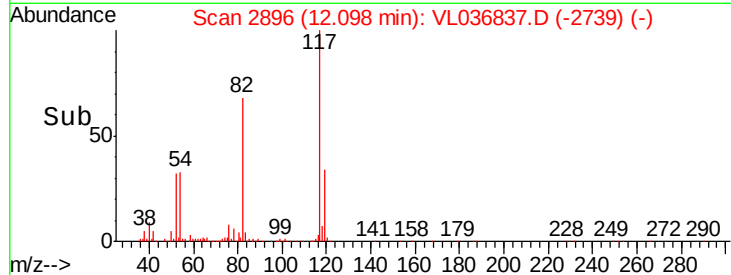
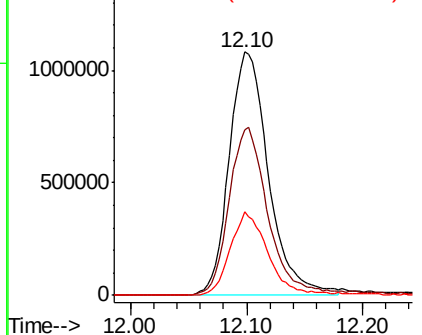


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 21 Apr 2021 00:50

Tot Ion: 117 Resp: 2550329
Ion Ratio Lower Upper
117 100
82 70.7 57.4 86.0
119 33.6 47.4 71.0#

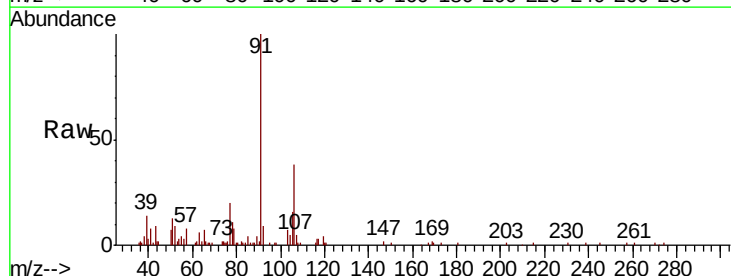


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

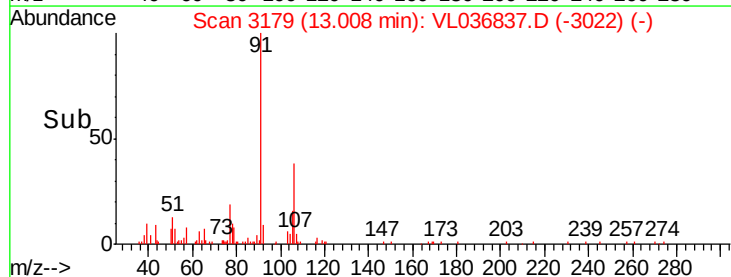
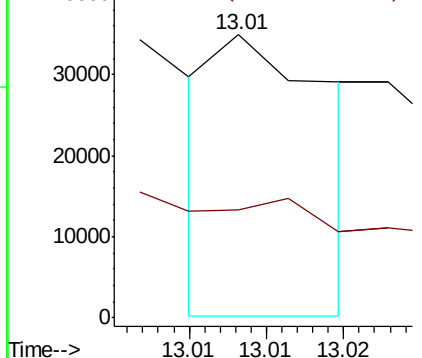


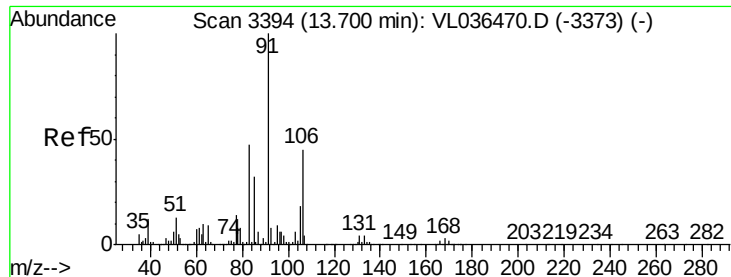
#59
m/p-Xylene
Concen: 0.055 ppbv
RT: 13.01 min Scan# 3179
Delta R.T.: 0.01 min
Lab File: VL036837.D
Acq: 21 Apr 2021 00:56

Tgt Ion: 91 Resp: 17896
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#



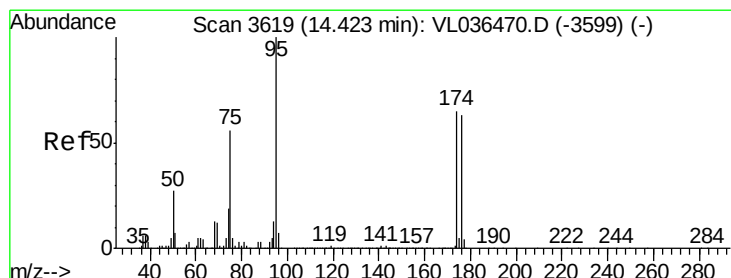
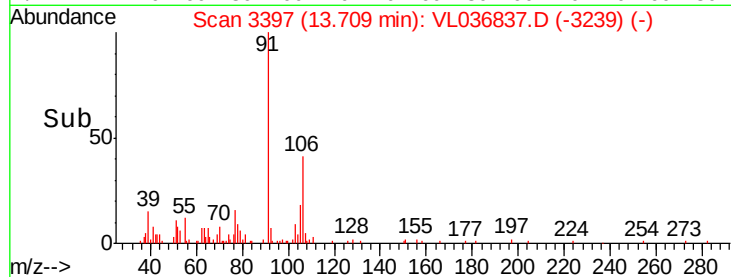
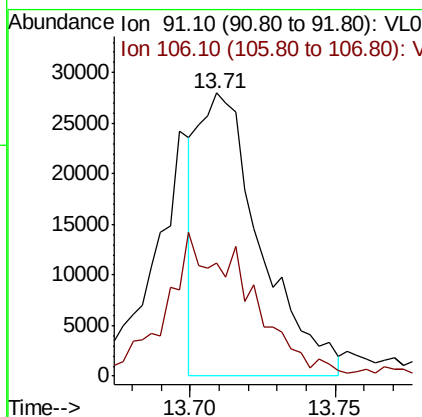
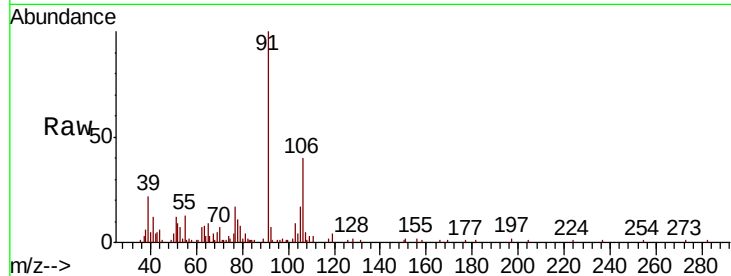
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





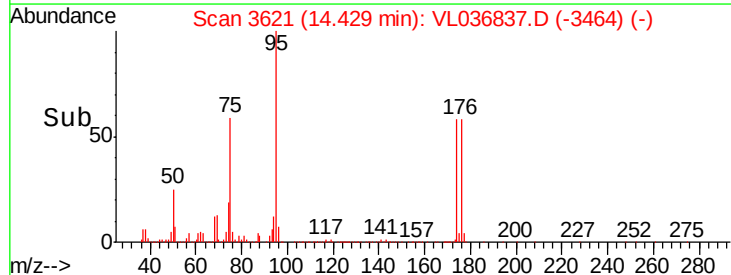
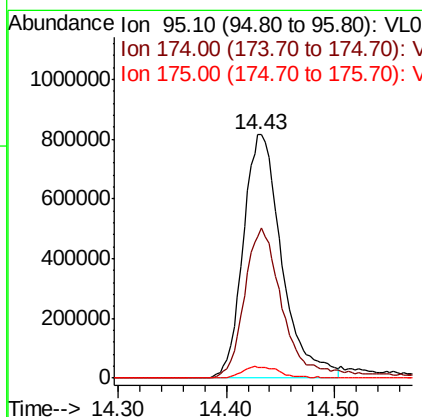
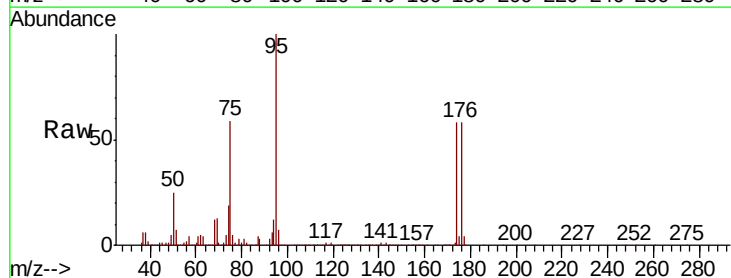
#60
o-Xylene
Concen: 0.134 ppbv
RT: 13.71 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 21 Apr 2021 00:50

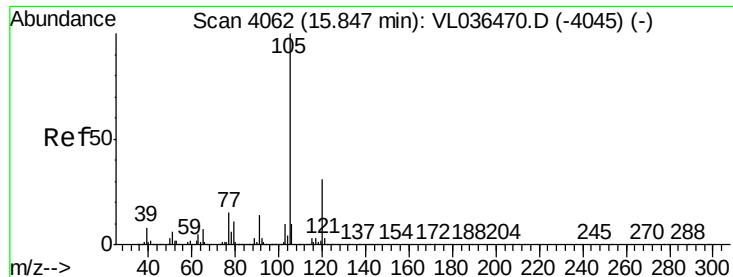
Tot Ion: 91 Resp: 41935
Ion Ratio Lower Upper
91 100
106 0.0 22.3 66.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.970 ppbv
RT: 14.43 min Scan# 3621
Delta R.T.: 0.01 min
Lab File: VL036837.D
Acq: 21 Apr 2021 00:56

Tgt Ion: 95 Resp: 2026624
Ion Ratio Lower Upper
95 100
174 61.1 51.0 76.6
175 4.8 3.9 5.9





#72

4-Ethyltoluene

Concen: 0.047 ppbv

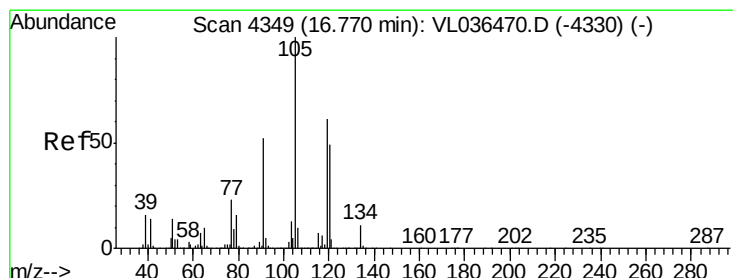
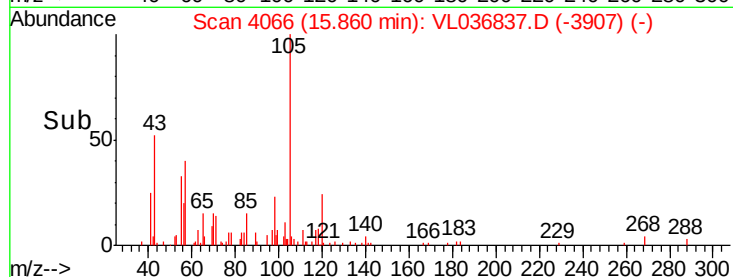
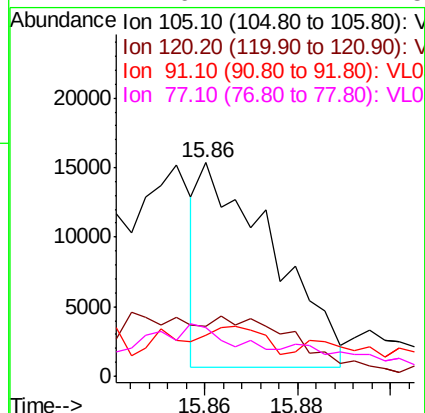
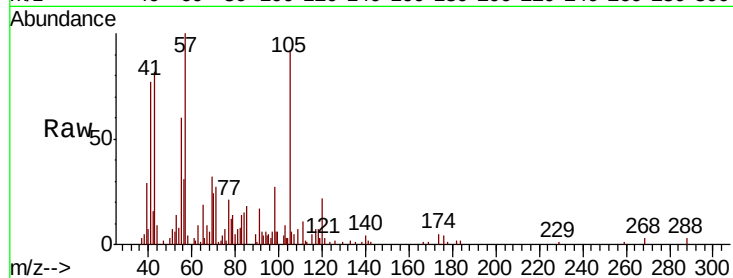
RT: 15.86 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 21 Apr 2021 00:50

Tot Ion:	105	Resp:	16078
Ion Ratio	Lower	Upper	
105	100		
120	0.0	24.0	36.0#
91	54.3	11.0	16.4#
77	44.6	11.7	17.5#



#74

1,2,4-Trimethylbenzene

Concen: 0.166 ppbv

RT: 16.78 min Scan# 4353

Delta R.T. 0.01 min

Lab File: VL036837.D

Acq: 21 Apr 2021 00:56

Tgt Ion:	105	Resp:	56879
Ion Ratio	Lower	Upper	
105	100		
120	40.8	39.2	58.8
91	9.7	42.6	64.0#
77	9.5	18.6	28.0#

