

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU030920\
 Data File : VU037137.D
 Acq On : 09 Mar 2020 17:08
 Operator : JC/MD
 Sample : L1161-07 0.25PPB
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleID :
 LOD-MDL-WATER-01-QT1-2020

Manual Integrations
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sam
 3/10/2020 3:07:14 PM

Quant Time: Mar 10 08:55:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U030920DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Mon Mar 09 18:12:43 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	6.15	96	15123	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.66	95	5037	0.86	ug/l	0.00
Spiked Amount 1.000			Recovery	=	86.00%	
68) 1,2-Dichlorobenzene-d4	12.21	152	5207	0.87	ug/l	0.00
Spiked Amount 1.000			Recovery	=	87.00%	
Target Compounds						Ovalue
2) Dichlorodifluoromethane	1.40	85	1904	0.258	ug/l	96
3) Chloromethane	1.54	50	2092	0.285	ug/l	91
4) Vinyl Chloride	1.62	62	1770	0.274	ug/l	100
6) Chloroethane	1.96	64	1015	0.328	ug/l	100
7) Trichlorofluoromethane	2.16	101	1992	0.254	ug/l	95
8) 1,1,2-Trichloro-1,2,2-trif	2.61	101	825	0.224	ug/l #	78
9) 1,1-Dichloroethene	2.60	96	978	0.280	ug/l	86
11) Allyl Chloride	2.95	41	2066	0.305	ug/l #	78
12) Acrylonitrile	3.36	53	371	0.449	ug/l #	80
13) Acetone	2.66	43	1517	1.650	ug/l #	81
14) Carbon Disulfide	2.82	76	3138	0.269	ug/l	98
15) Methylene Chloride	3.08	84	2077	0.473	ug/l #	83
16) trans-1,2-Dichloroethene	3.38	96	868	0.234	ug/l	94
17) 1,1-Dichloroethane	3.91	63	1961	0.228	ug/l #	82
18) 2-Butanone	4.77	43	1745	1.242	ug/l	75
19) Cyclohexane	5.42	56	1538	0.210	ug/l #	83
20) Methylcyclohexane	6.79	83	1727	0.238	ug/l #	87
21) 2,2-Dichloropropane	4.71	77	1912	0.243	ug/l #	80
22) cis-1,2-Dichloroethene	4.71	96	976	0.212	ug/l	57
24) tert-Butyl Alcohol	3.23	59	3701	11.426	ug/l #	75
25) Methyl tert-Butyl Ether	3.41	73	2810	0.274	ug/l #	63
27) Chloroform	5.13	83	2412	0.260	ug/l	94
28) 1,1,1-Trichloroethane	5.36	97	2085	0.264	ug/l	90
29) 1,1-Dichloropropene	5.57	75	1487	0.232	ug/l #	85
30) Carbon Tetrachloride	5.56	117	1598	0.231	ug/l	87
31) Isopropyl Ether	4.05	45	3096	0.225	ug/l	78
32) Ethyl-t-butyl ether	4.56	59	3097	0.239	ug/l	93
33) Tert-Amyl methyl ether	5.99	73	2300	0.207	ug/l #	97
35) Benzene	5.81	78	4653	0.255	ug/l	95
36) 1,2-Dichloroethane	5.84	62	1684	0.255	ug/l #	73
37) Trichloroethene	6.58	130	1378	0.288	ug/l	90
38) 1,2-Dichloropropane	6.83	63	1037	0.207	ug/l	97
41) Tetrahydrofuran	5.11	42	390	0.438	ug/l #	27
42) 1-Chlorobutane	5.49	56	2151	0.233	ug/l	78
43) Dibromomethane	6.95	93	596	0.232	ug/l #	82
44) Bromodichloromethane	7.14	83	1549	0.232	ug/l #	94
45) 4-Methyl-2-Pentanone	7.83	43	4388	1.275	ug/l #	85
46) t-1,4-Dichloro-2-butene	10.85	75	590m	0.626	ug/l	
47) Methyl methacrylate	7.00	69	721	0.340	ug/l #	33
49) Toluene	8.00	92	2283	0.207	ug/l	93
50) t-1,3-Dichloropropene	8.24	75	1229	0.204	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

51) cis-1,3-Dichloropropene	7.64	75	1489	0.217	ug/l #	80
52) 1,1,2-Trichloroethane	8.43	97	724	0.211	ug/l #	87
53) 1,3-Dichloropropane	8.60	76	1413	0.233	ug/l	95
54) 2-Hexanone	8.73	43	2412	1.017	ug/l	82
55) Dibromochloromethane	8.83	129	941	0.222	ug/l	98
58) Tetrachloroethene	8.58	164	1368	0.304	ug/l #	81
59) Chlorobenzene	9.47	112	3302	0.269	ug/l	96
60) 1,1,1,2-Tetrachloroethane	9.56	131	1035	0.230	ug/l	96
61) Pentachloroethane	11.45	117	749	0.218	ug/l	82
62) Hexachloroethane	12.49	117	815	0.222	ug/l #	69
64) m/p-Xylenes	9.72	106	3088	0.389	ug/l	83
65) o-Xylene	10.12	106	1616	0.211	ug/l	98
69) Isopropylbenzene	10.51	105	4284	0.205	ug/l	95
70) 1,1,2,2-Tetrachloroethane	10.81	83	1109	0.246	ug/l #	83
74) 2-Chlorotoluene	11.01	126	1031	0.206	ug/l	86
75) 1,3,5-Trimethylbenzene	11.11	105	3667	0.203	ug/l #	84
85) 1,2-Dichlorobenzene	12.23	146	2056	0.212	ug/l	97
88) Hexachlorobutadiene	14.06	225	683	0.226	ug/l	86
90) 1,2,3-Trichlorobenzene	14.37	180	965	0.203	ug/l	95

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

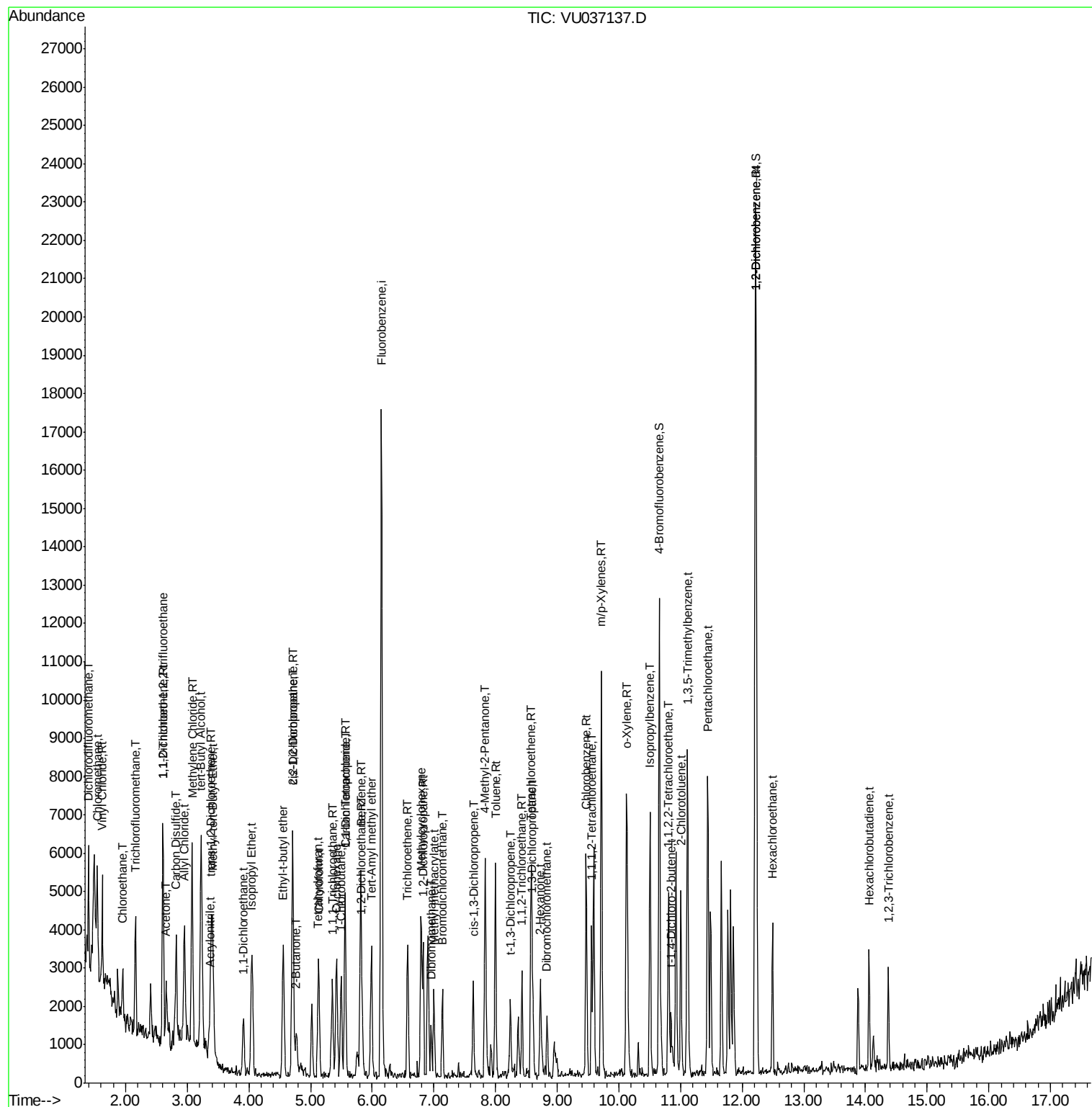
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU030920\
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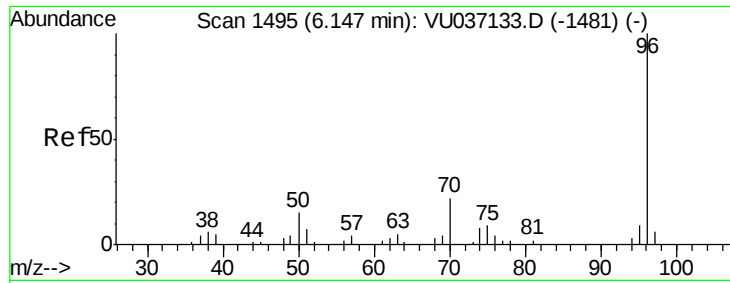
Instrument :
 MSVOA_U
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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 6.15 min Scan# 1496

Delta R.T. 0.00 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

Instrument :

MSVOA_U

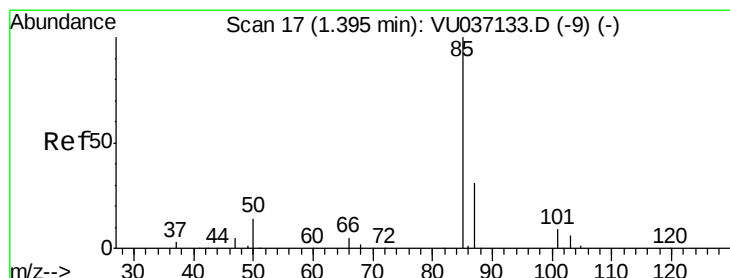
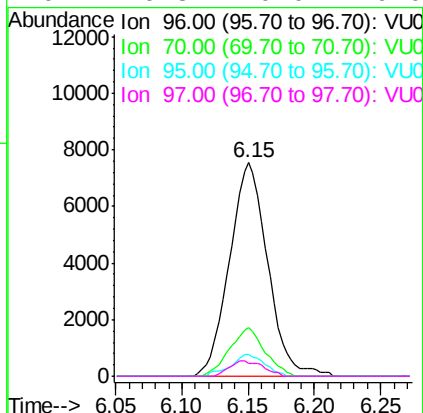
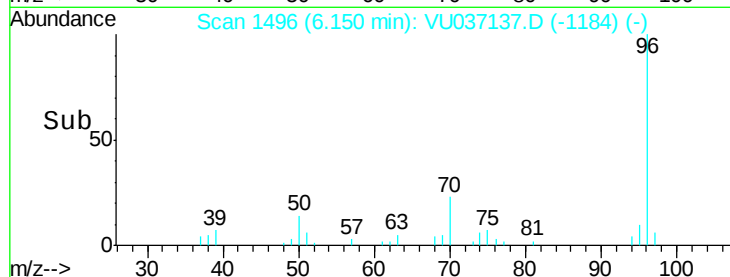
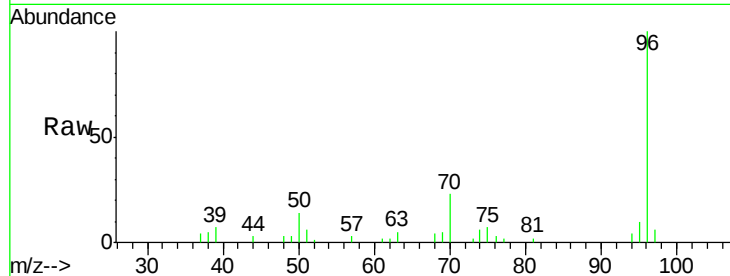
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion	Ion	Ratio	Lower	Upper
15123	96	100		
	70	20.9	15.6	23.4
	95	9.0	7.0	10.6
	97	6.3	0.0	0.0#

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#2

Dichlorodifluoromethane

Concen: 0.258 ug/l

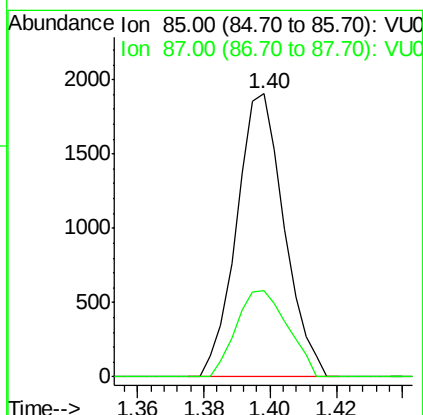
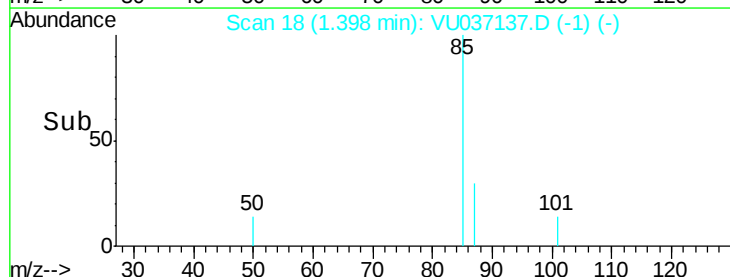
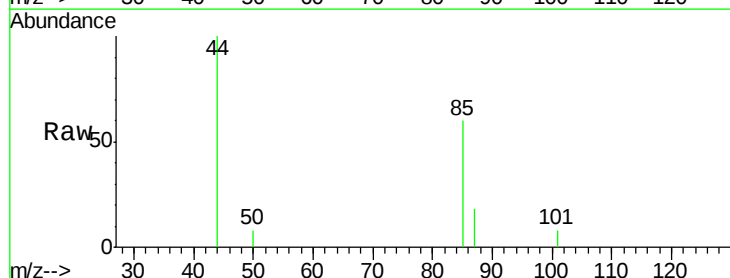
RT: 1.40 min Scan# 18

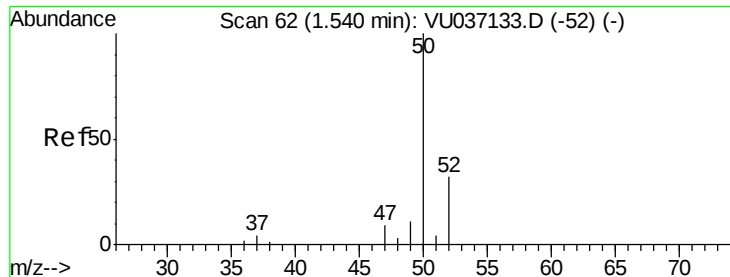
Delta R.T. 0.00 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

Tgt Ion	Ion	Ratio	Lower	Upper
1904	85	100		
	87	30.3	16.4	49.2





#3

Chloromethane

Concen: 0.285 ug/l

RT: 1.54 min Scan# 63

Delta R.T. 0.00 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 50 Resp: 2092

Ion Ratio Lower Upper

50 100

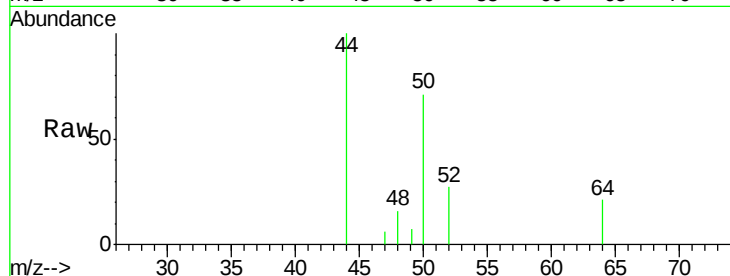
52 37.6 26.0 39.0

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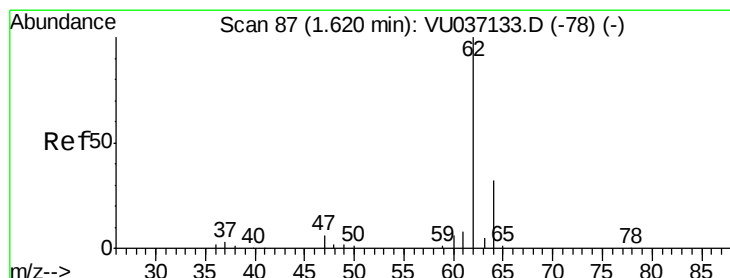
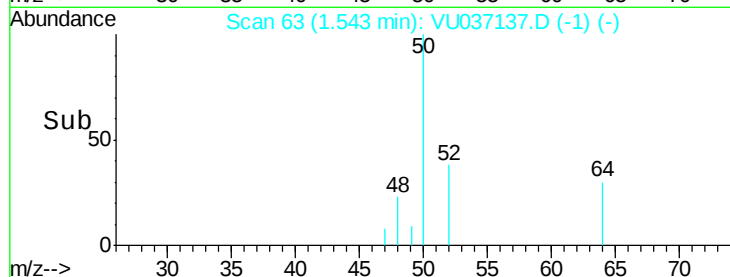
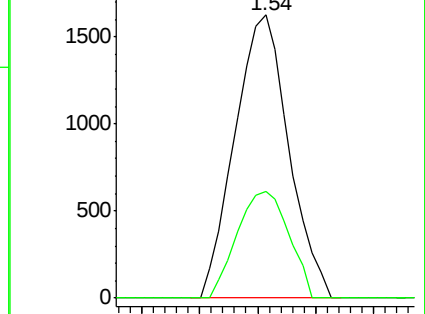
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Abundance Ion 50.00 (49.70 to 50.70): VU037137.D (-52) (-)

Ion 52.00 (51.70 to 52.70): VU037137.D (-52) (-)



#4

Vinyl Chloride

Concen: 0.274 ug/l

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU037137.D

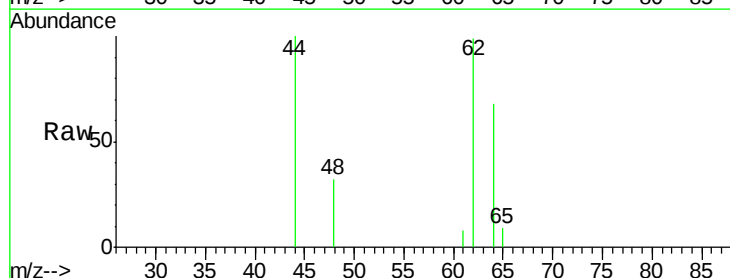
Acq: 09 Mar 2020 17:08

Tgt Ion: 62 Resp: 1770

Ion Ratio Lower Upper

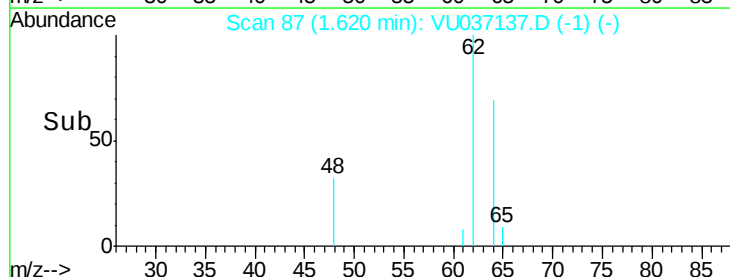
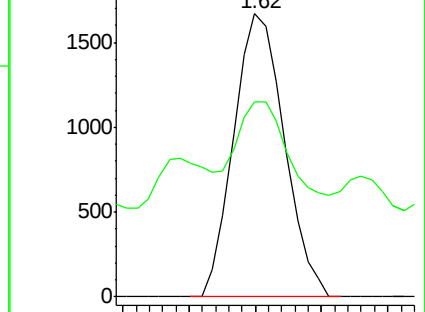
62 100

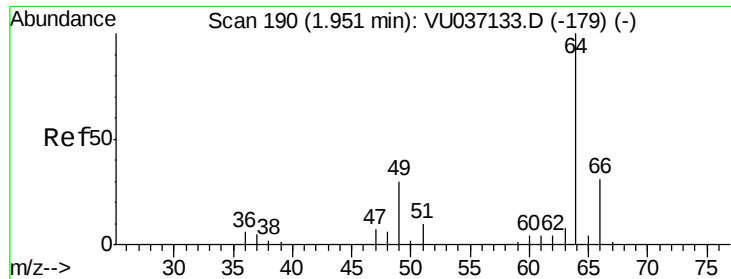
64 31.8 25.4 38.2



Abundance Ion 62.00 (61.70 to 62.70): VU037137.D (-78) (-)

Ion 64.00 (63.70 to 64.70): VU037137.D (-78) (-)





#6

Chloroethane

Concen: 0.328 ug/l

RT: 1.96 min Scan# 192

Delta R.T. 0.01 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

Tot Ion: 64 Resp: 1015

Ion Ratio Lower Upper

64 100

66 31.8 25.5 38.3

Instrument :

MSVOA_U

ClientSampleId :

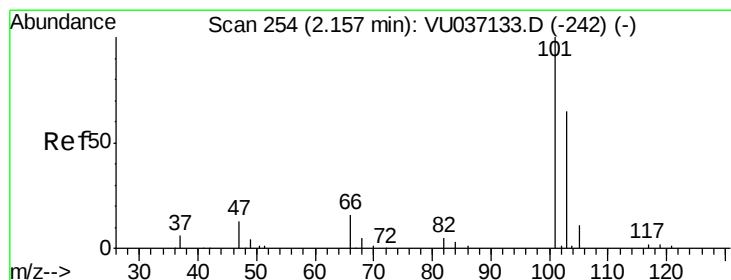
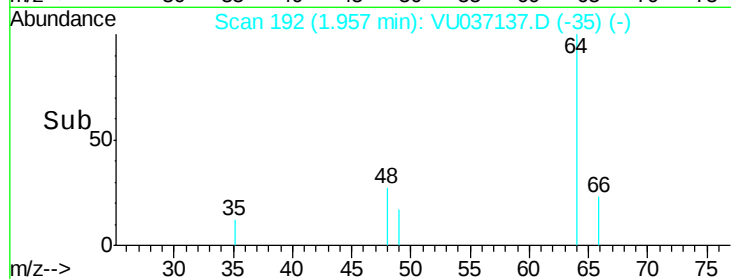
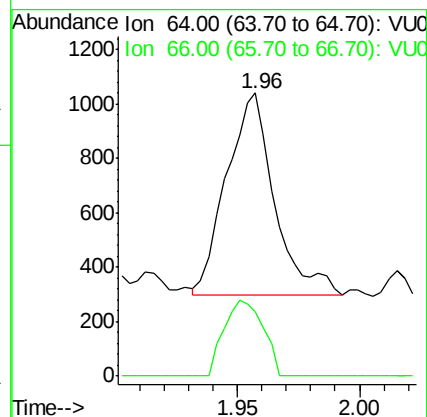
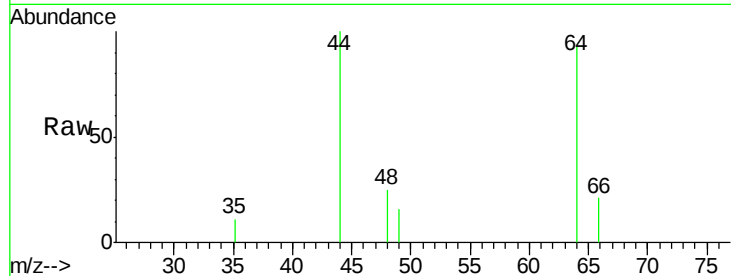
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#7

Trichlorofluoromethane

Concen: 0.254 ug/l

RT: 2.16 min Scan# 255

Delta R.T. 0.00 min

Lab File: VU037137.D

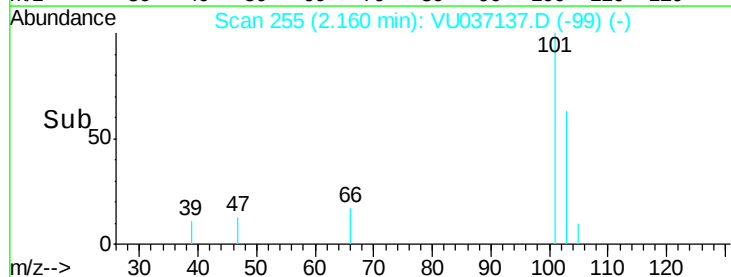
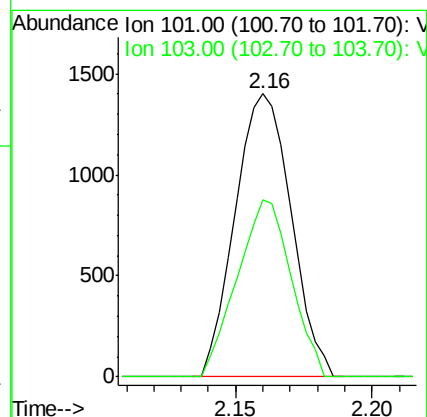
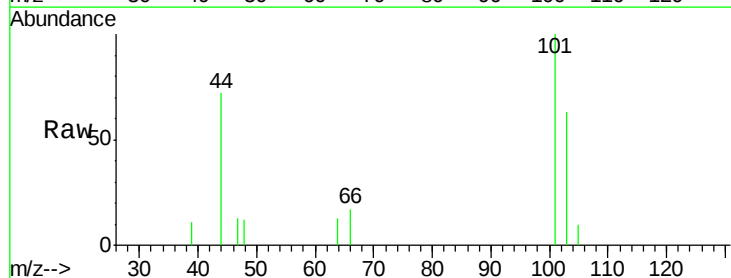
Acq: 09 Mar 2020 17:08

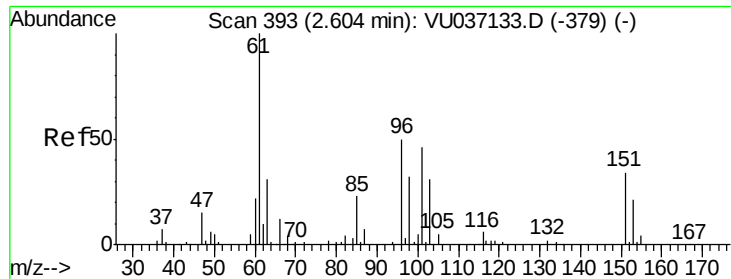
Tgt Ion: 101 Resp: 1992

Ion Ratio Lower Upper

101 100

103 62.7 53.0 79.6





#8

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.224 ug/l

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

Instrument :

MSVOA_U

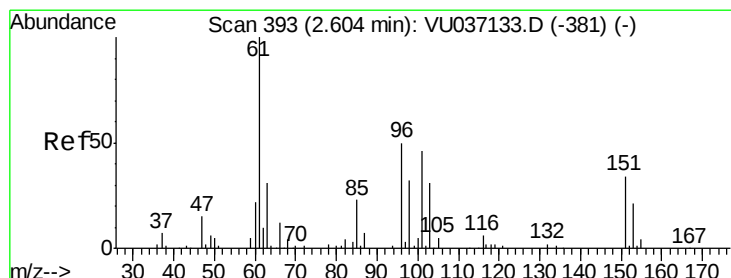
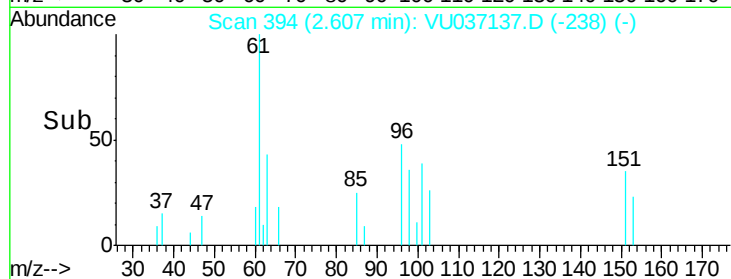
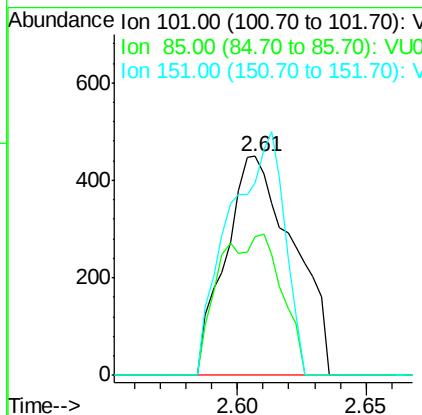
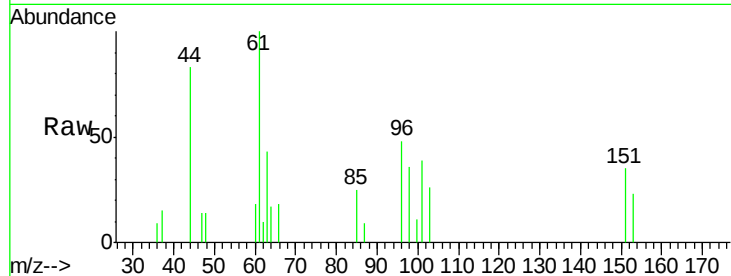
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion:	101	Resp:	825
Ion Ratio	Lower	Upper	
101	100		
85	24.5	33.9	50.9#
151	90.1	59.8	89.8#

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#9

1,1-Dichloroethene

Concen: 0.280 ug/l

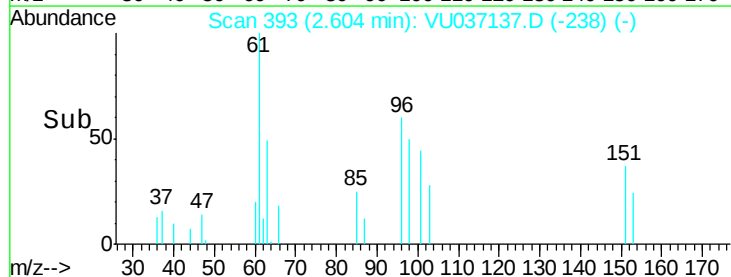
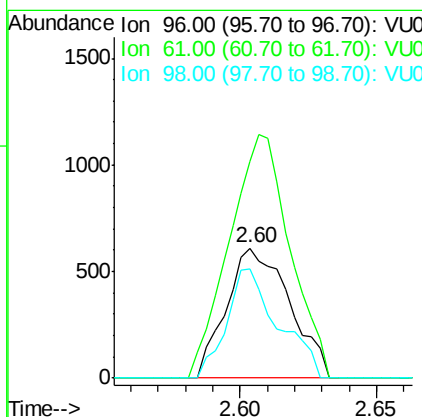
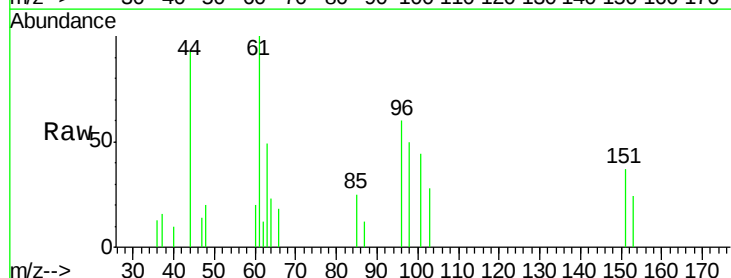
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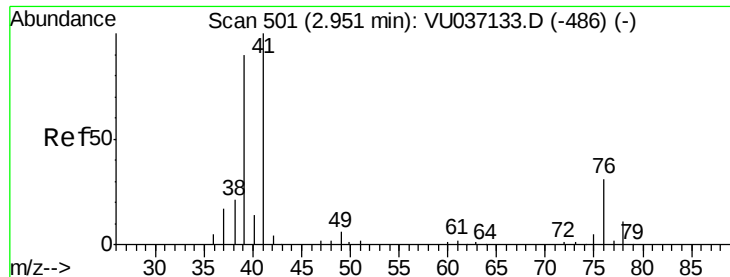
Delta R.T. -0.00 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

Tgt Ion:	96	Resp:	978
Ion Ratio	Lower	Upper	
96	100		
61	166.8	0.0	463.2
98	83.9	0.0	130.0





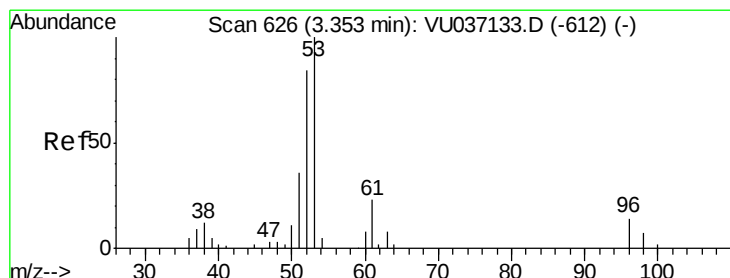
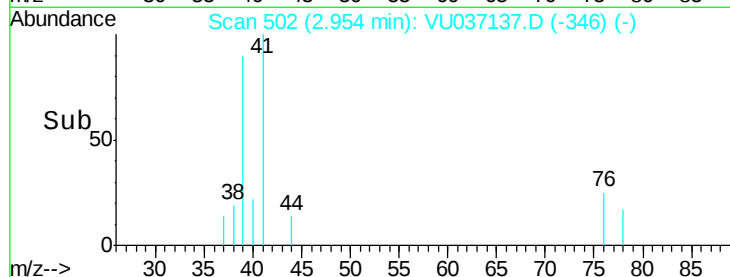
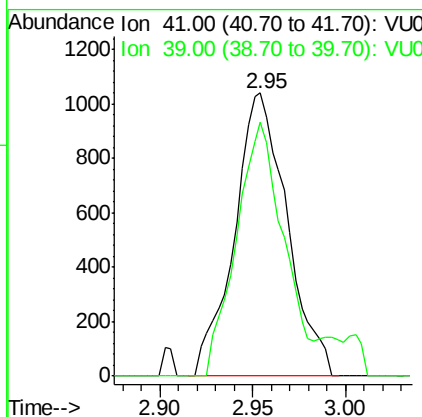
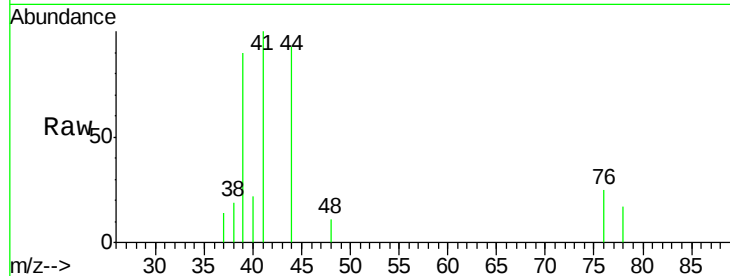
#11
Allvl Chloride
Concen: 0.305 ug/l
RT: 2.95 min Scan# 502
Delta R.T. 0.00 min
Lab File: VU037137.D
Acq: 09 Mar 2020 17:08

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT1-2020

Tot Ion: 41 Resp: 2066
Ion Ratio Lower Upper
41 100
39 80.6 50.7 76.1#

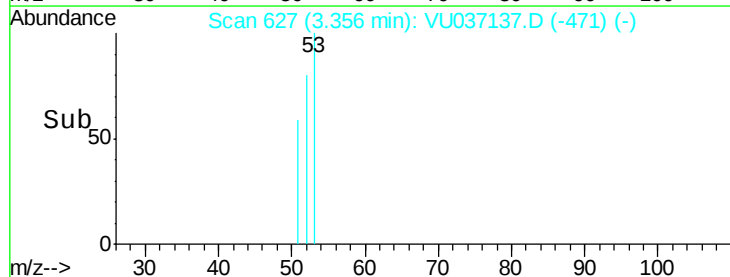
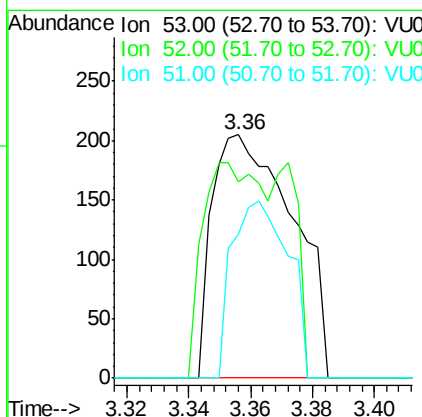
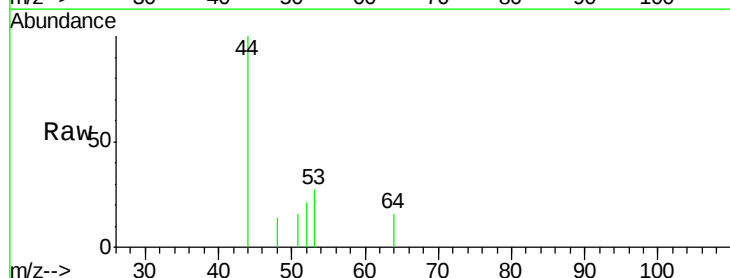
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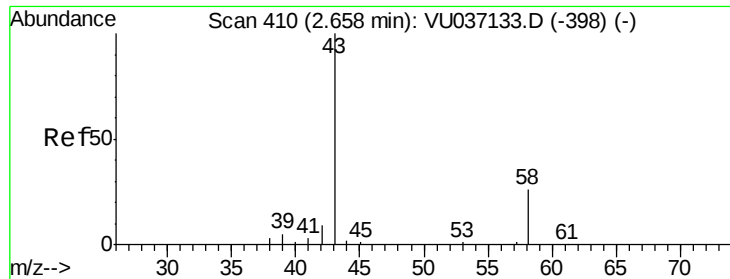
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#12
Acrylonitrile
Concen: 0.449 ug/l
RT: 3.36 min Scan# 627
Delta R.T. 0.00 min
Lab File: VU037137.D
Acq: 09 Mar 2020 17:08

Tgt Ion: 53 Resp: 371
Ion Ratio Lower Upper
53 100
52 66.6 64.6 97.0
51 50.9 27.2 40.8#





#13

Acetone

Concen: 1.650 ug/l

RT: 2.66 min Scan# 409

Delta R.T. -0.00 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 43 Resp: 1517

Ion Ratio Lower Upper

43 100

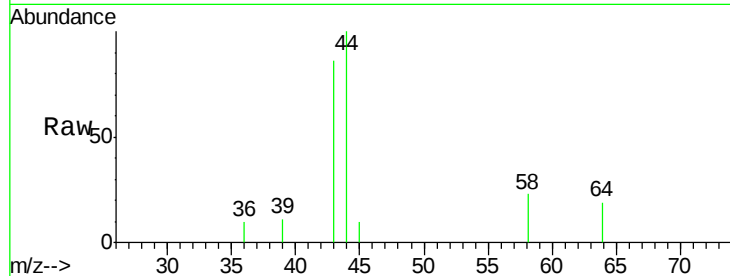
58 27.1 30.8 46.2#

Manual Integrations

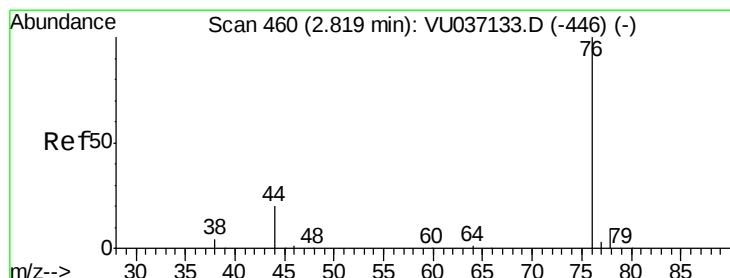
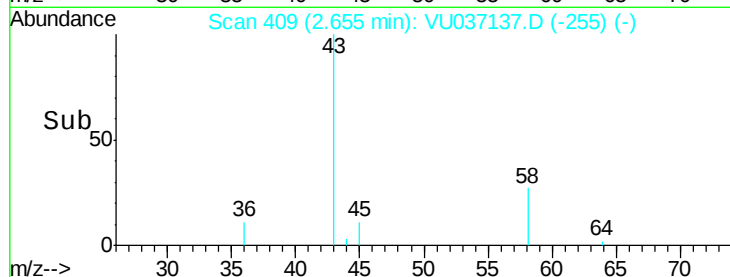
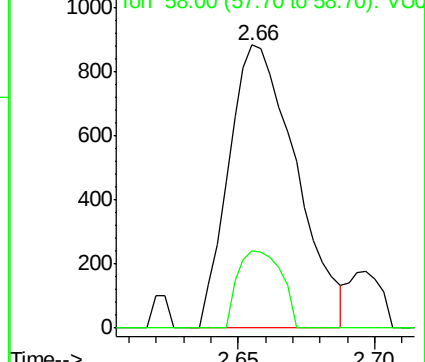
APPROVED

sam

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Abundance Ion 43.00 (42.70 to 43.70): VU037137.D (-398) (-)



#14

Carbon Disulfide

Concen: 0.269 ug/l

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU037137.D

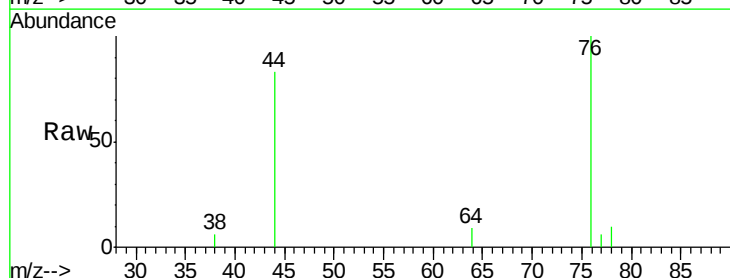
Acq: 09 Mar 2020 17:08

Tgt Ion: 76 Resp: 3138

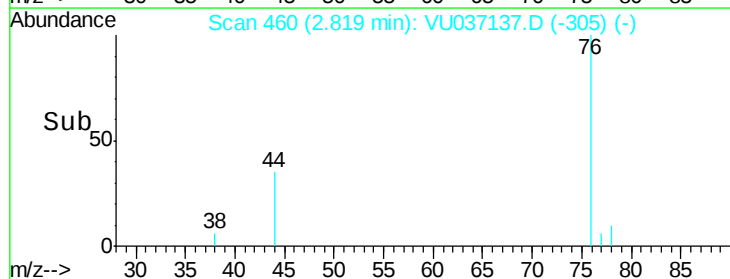
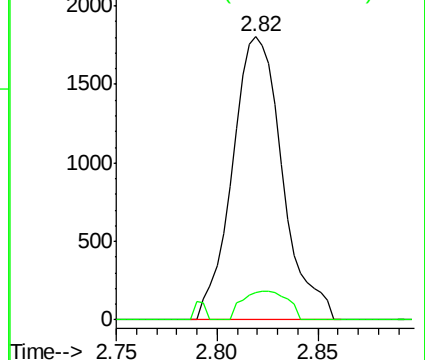
Ion Ratio Lower Upper

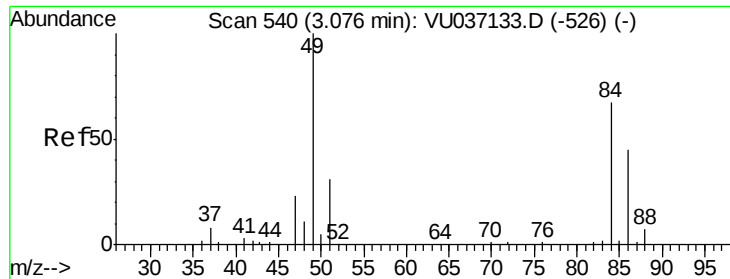
76 100

78 9.8 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU037137.D (-446) (-)





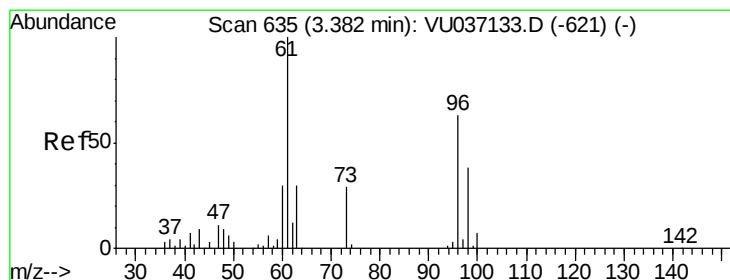
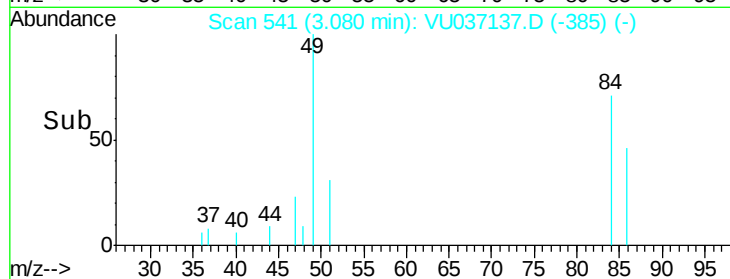
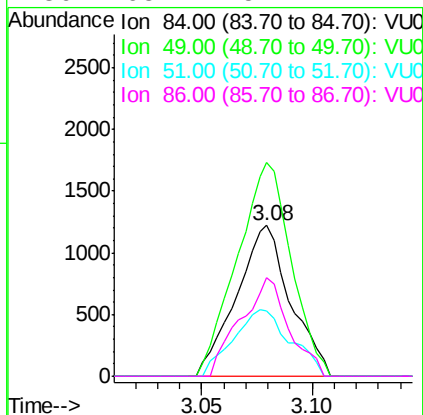
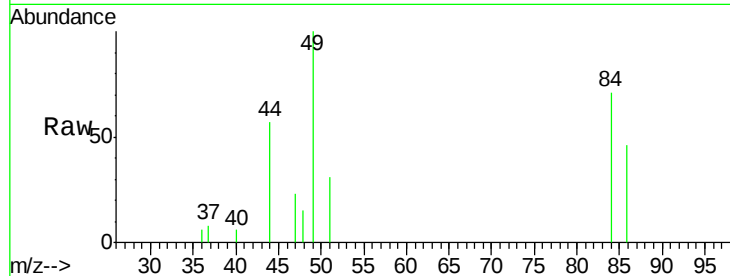
#15
Methvlene Chloride
Concen: 0.473 ug/l
RT: 3.08 min Scan# 541
Delta R.T. 0.00 min
Lab File: VU037137.D
Acq: 09 Mar 2020 17:08

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
84	100		
49	141.5	89.7	134.5#
51	43.6	0.0	71.6
86	65.2	51.4	77.2

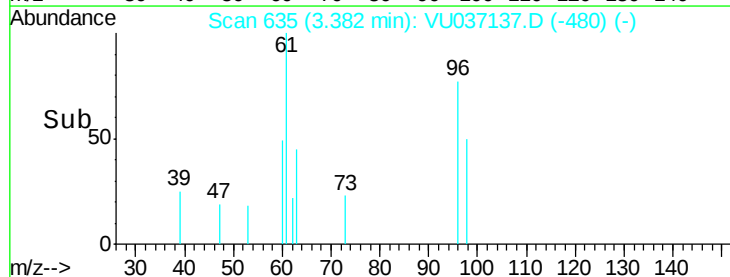
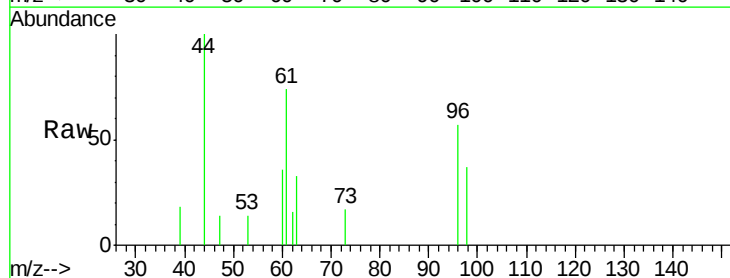
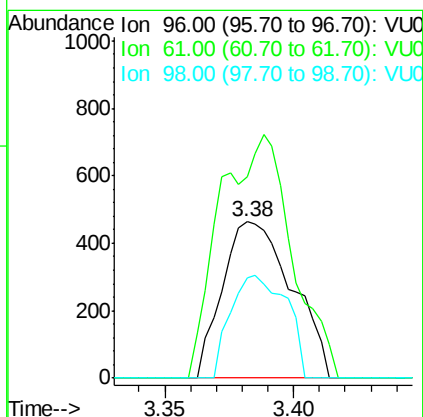
Manual Integrations
APPROVED

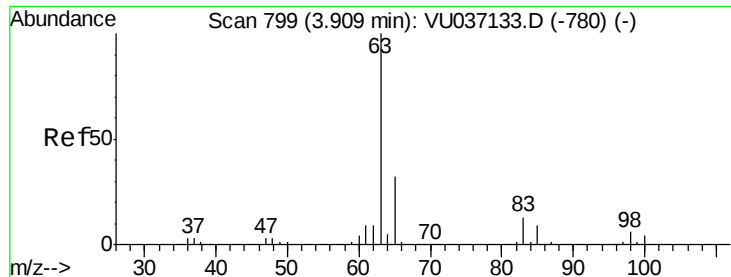
sam
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#16
trans-1,2-Dichloroethene
Concen: 0.234 ug/l
RT: 3.38 min Scan# 635
Delta R.T. -0.00 min
Lab File: VU037137.D
Acq: 09 Mar 2020 17:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	129.4	110.8	166.2
98	64.1	50.3	75.5





#17

1,1-Dichloroethane

Concen: 0.228 ug/l

RT: 3.91 min Scan# 798

Delta R.T. -0.00 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

Instrument :

MSVOA_U

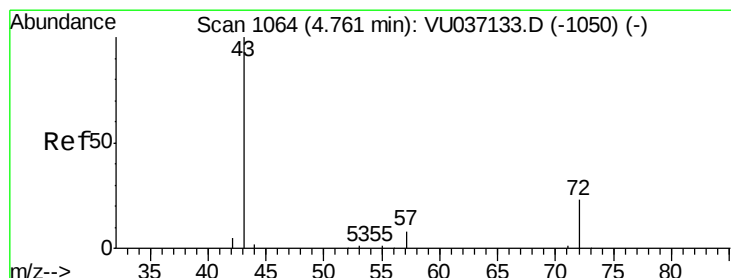
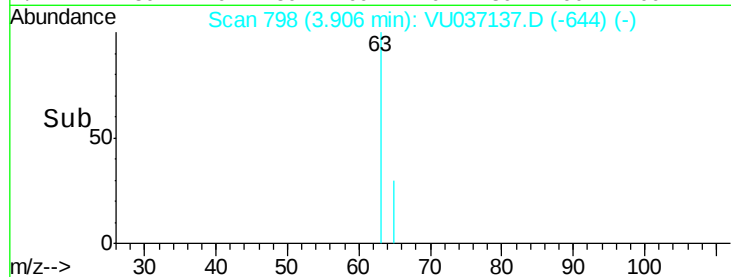
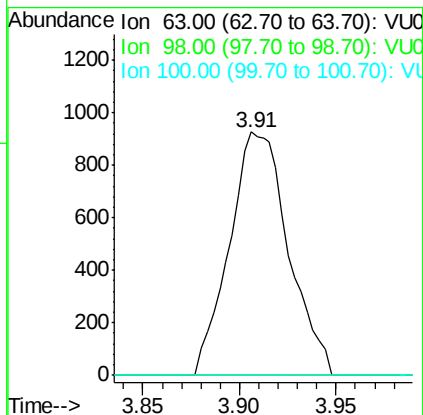
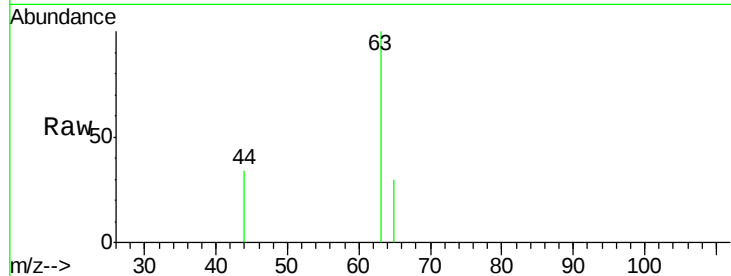
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion:	63	Resp:	1961
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.5	10.5#
100	0.0	2.4	7.1#

Manual Integrations
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sam
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#18

2-Butanone

Concen: 1.242 ug/l

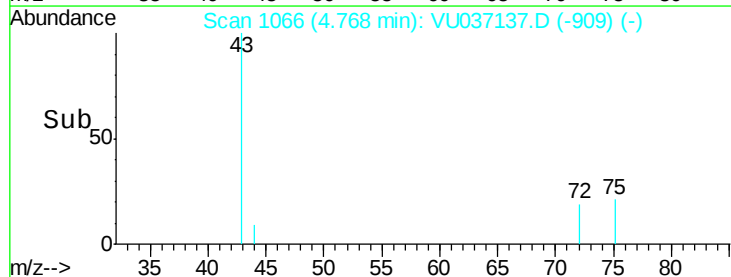
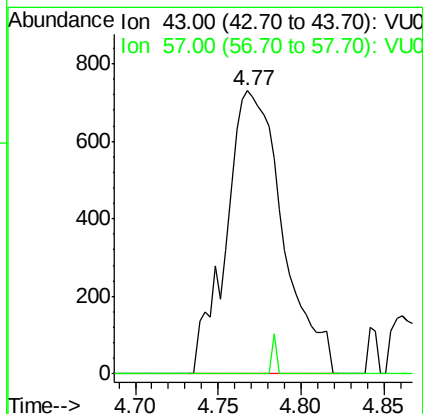
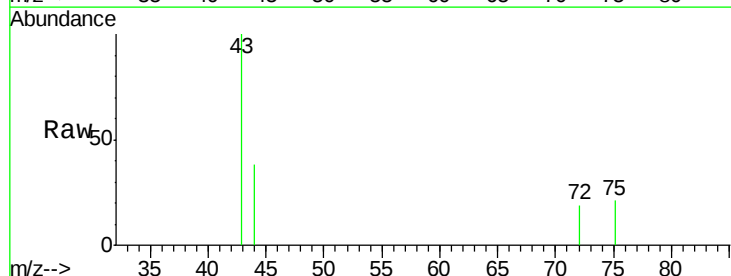
RT: 4.77 min Scan# 1066

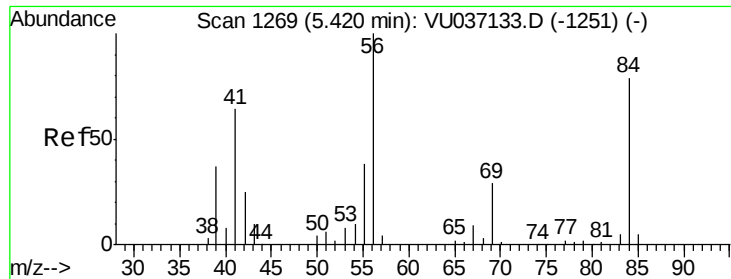
Delta R.T. 0.01 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

Tgt Ion:	43	Resp:	1745
Ion	Ratio	Lower	Upper
43	100		
57	0.0	0.0	17.8





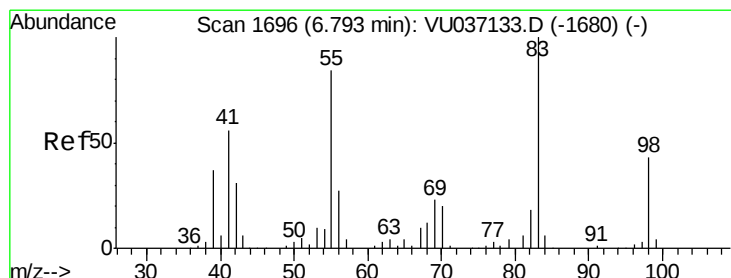
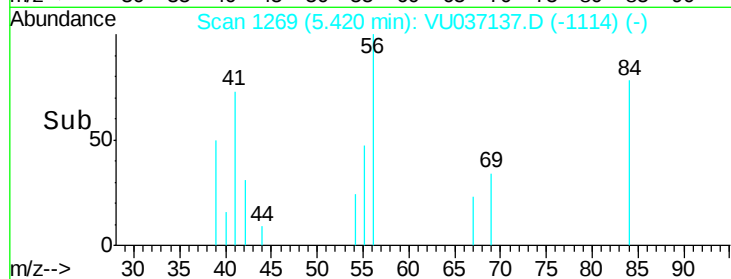
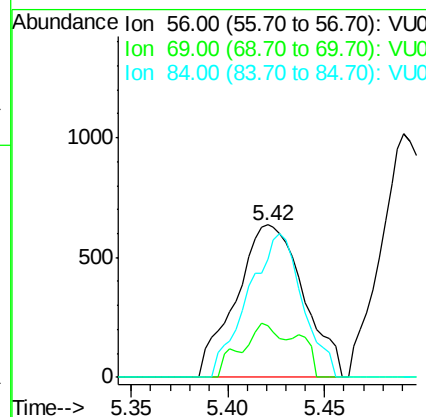
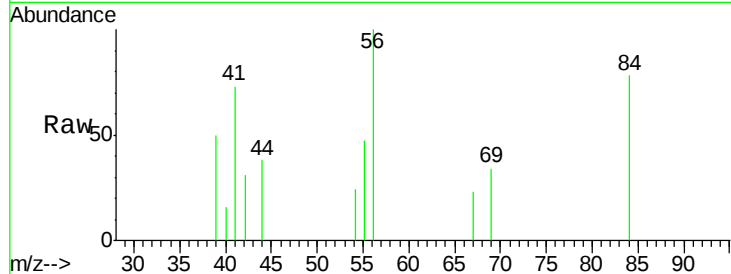
#19
Cyclohexane
Concen: 0.210 ug/l
RT: 5.42 min Scan# 1269
Delta R.T. -0.00 min
Lab File: VU037137.D
Acq: 09 Mar 2020 17:08

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT1-2020

Tot Ion: 56 Resp: 1538
Ion Ratio Lower Upper
56 100
69 21.5 26.2 39.2#
84 76.2 72.8 109.2

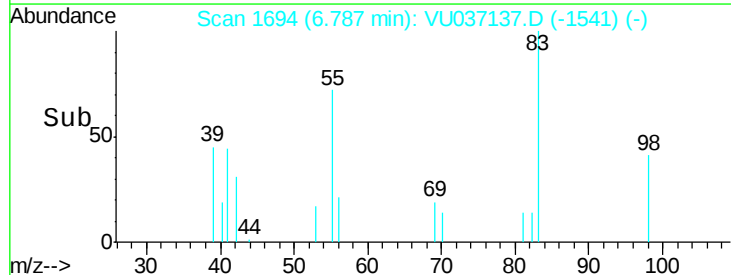
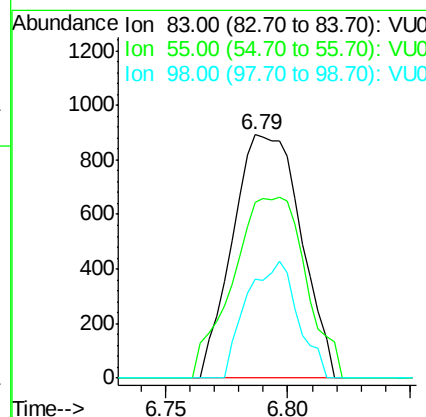
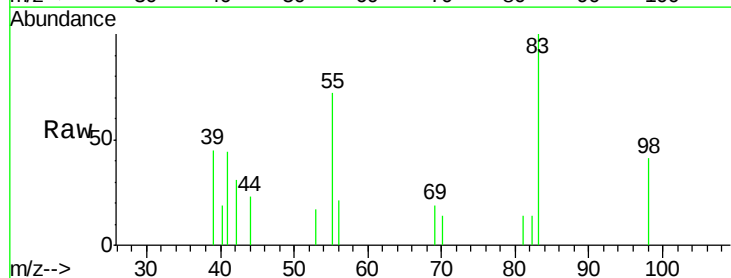
Manual Integrations
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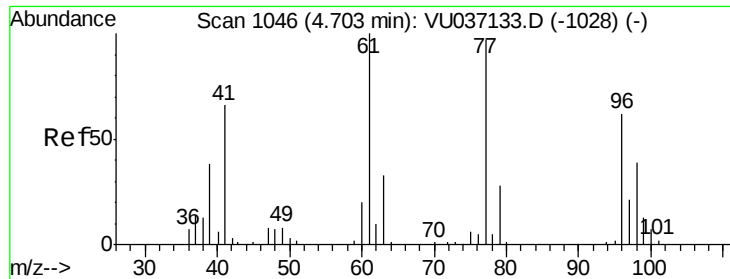
sam
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#20
Methylcyclohexane
Concen: 0.238 ug/l
RT: 6.79 min Scan# 1694
Delta R.T. -0.01 min
Lab File: VU037137.D
Acq: 09 Mar 2020 17:08

Tgt Ion: 83 Resp: 1727
Ion Ratio Lower Upper
83 100
55 79.6 56.6 85.0
98 36.1 37.5 56.3#





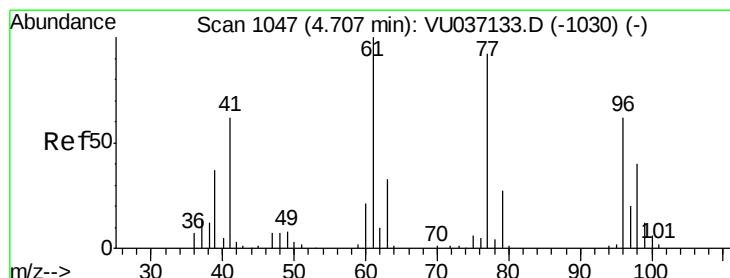
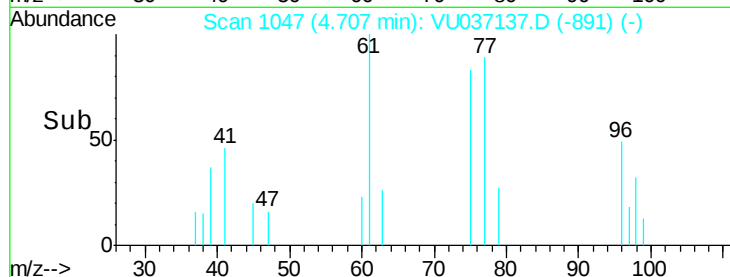
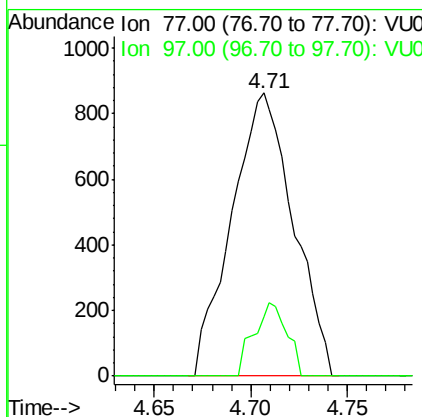
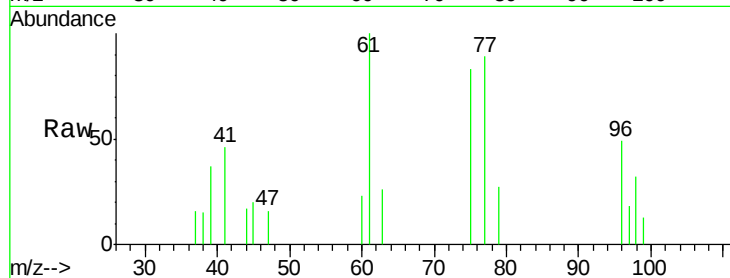
#21
 2,2-Dichloropropane
 Concen: 0.243 ug/l
 RT: 4.71 min Scan# 1047
 Delta R.T. 0.00 min
 Lab File: VU037137.D
 Acq: 09 Mar 2020 17:08

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2020

Tot Ion: 77 Resp: 1912
 Ion Ratio Lower Upper
 77 100
 97 13.8 19.0 28.4#

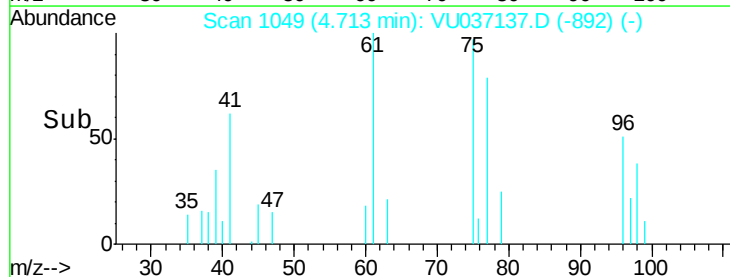
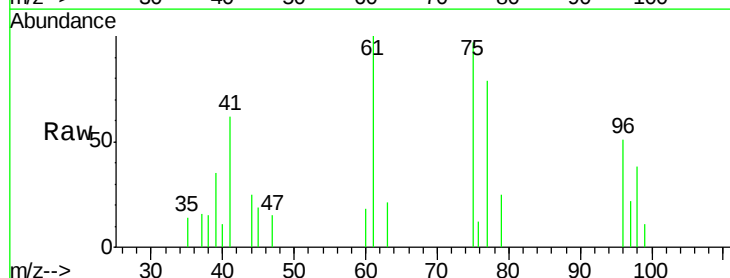
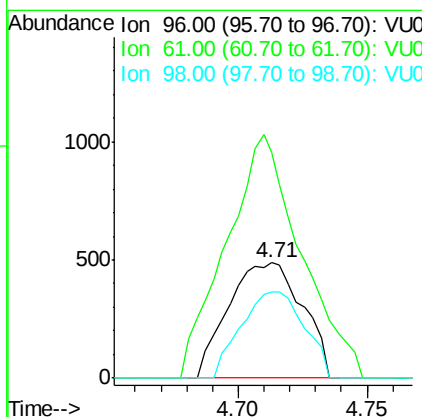
Manual Integrations
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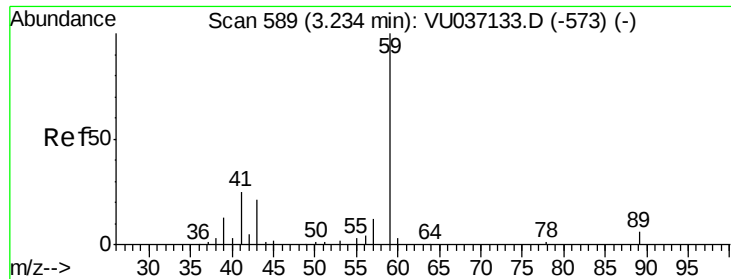
sam
 3/10/2020 3:07:14 PM



#22
 cis-1,2-Dichloroethene
 Concen: 0.212 ug/l
 RT: 4.71 min Scan# 1049
 Delta R.T. 0.01 min
 Lab File: VU037137.D
 Acq: 09 Mar 2020 17:08

Tgt Ion: 96 Resp: 976
 Ion Ratio Lower Upper
 96 100
 61 213.4 0.0 342.0
 98 64.0 32.0 96.0





#24

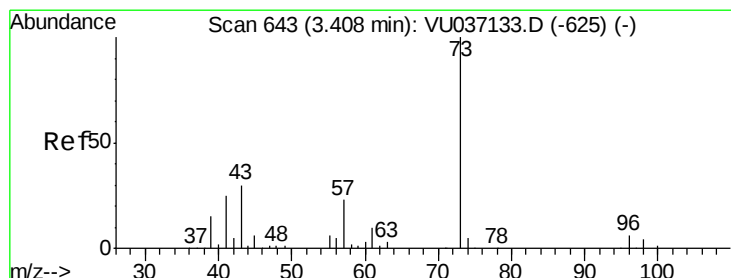
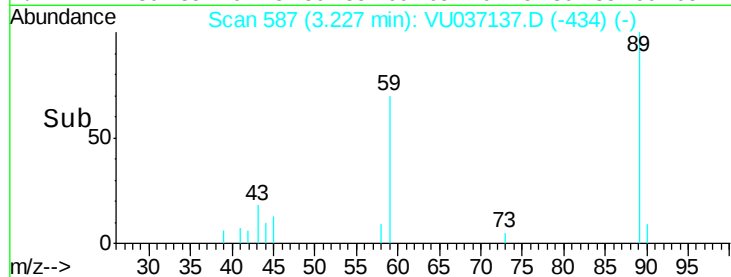
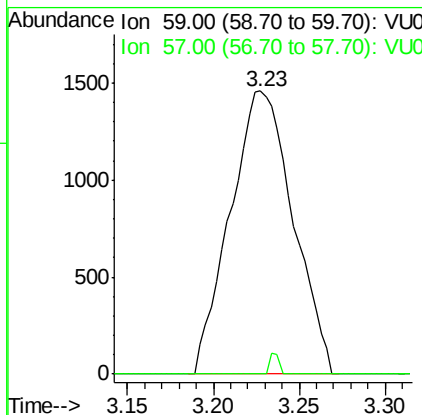
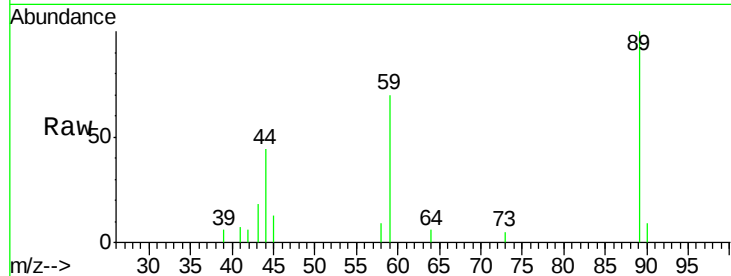
tert-Butyl Alcohol
 Concen: 11.426 ug/l
 RT: 3.23 min Scan# 587
 Delta R.T. -0.01 min
 Lab File: VU037137.D
 Acq: 09 Mar 2020 17:08

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
59	100		
57	1.1	8.4	12.6#

Manual Integrations
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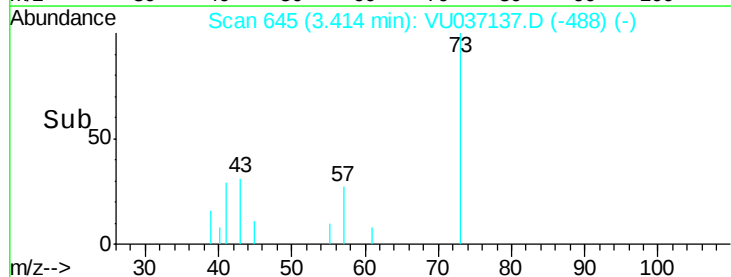
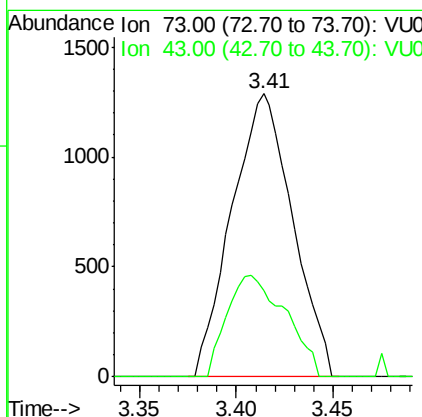
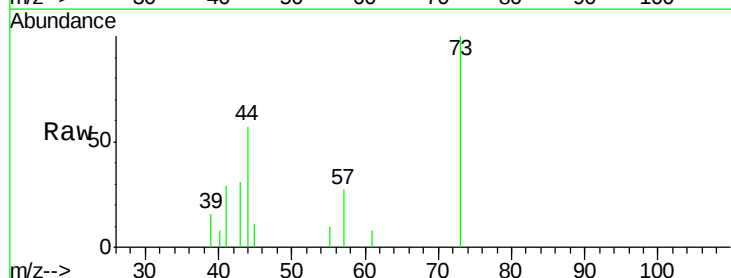
sam
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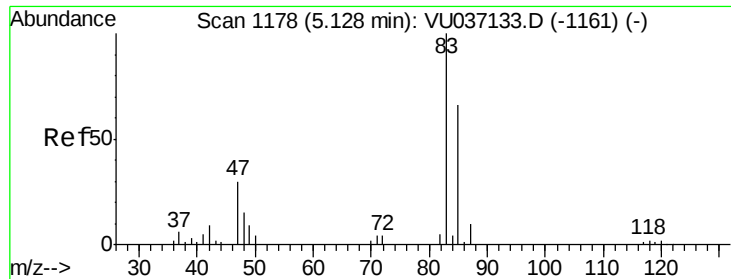


#25

Methyl tert-Butyl Ether
 Concen: 0.274 ug/l
 RT: 3.41 min Scan# 645
 Delta R.T. 0.01 min
 Lab File: VU037137.D
 Acq: 09 Mar 2020 17:08

Tgt Ion	Ratio	Lower	Upper
73	100		
43	34.4	14.5	21.7#





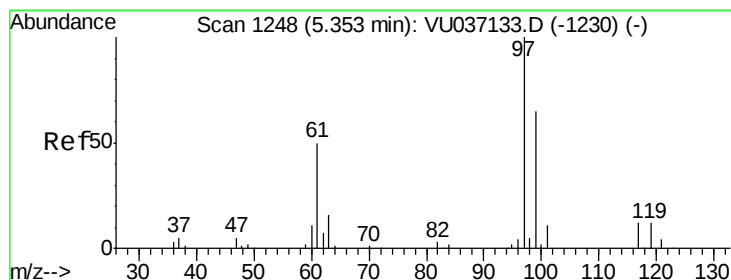
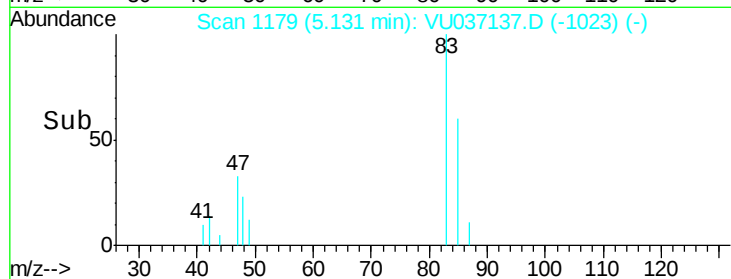
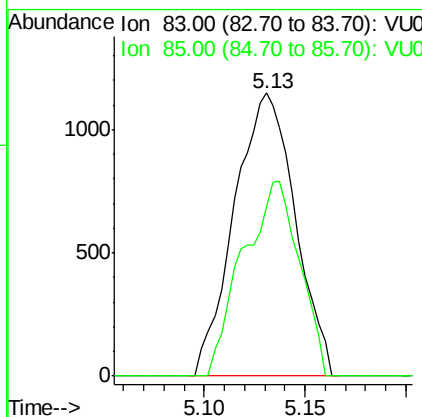
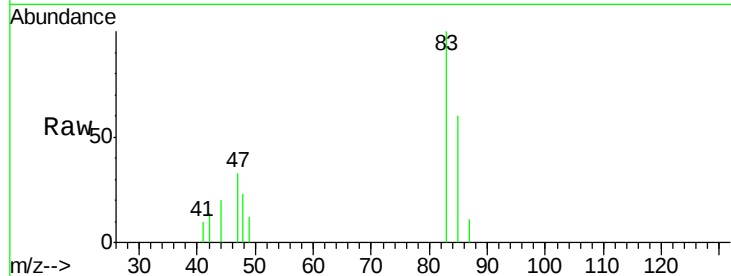
#27
Chloroform
Concen: 0.260 ug/l
RT: 5.13 min Scan# 1179
Delta R.T. 0.00 min
Lab File: VU037137.D
Acq: 09 Mar 2020 17:08

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT1-2020

Tot Ion	83	Resp	2412
Ion Ratio	100	Lower	Upper
83	100		
85	60.1	0.0	129.0

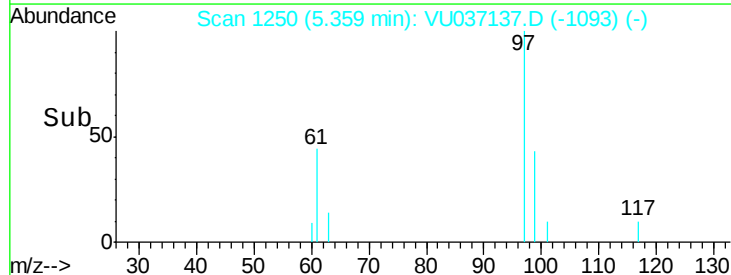
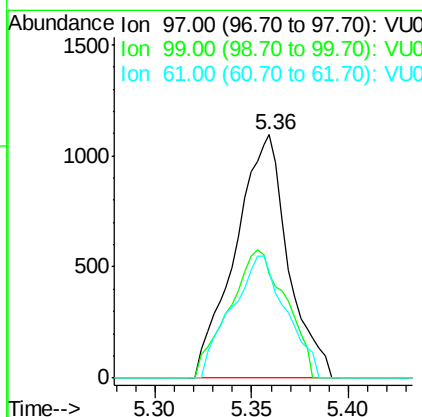
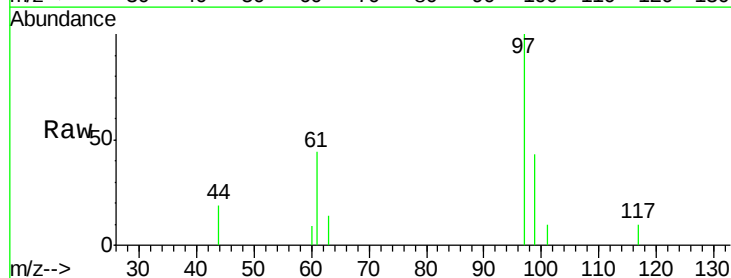
Manual Integrations
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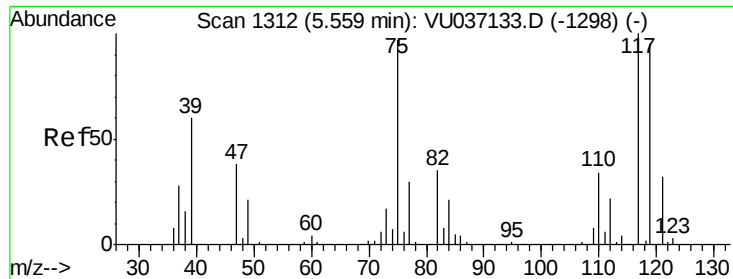
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#28
1,1,1-Trichloroethane
Concen: 0.264 ug/l
RT: 5.36 min Scan# 1250
Delta R.T. 0.01 min
Lab File: VU037137.D
Acq: 09 Mar 2020 17:08

Tgt Ion	97	Resp	2085
Ion Ratio	100	Lower	Upper
97	100		
99	56.0	32.1	96.3
61	51.9	22.7	68.0





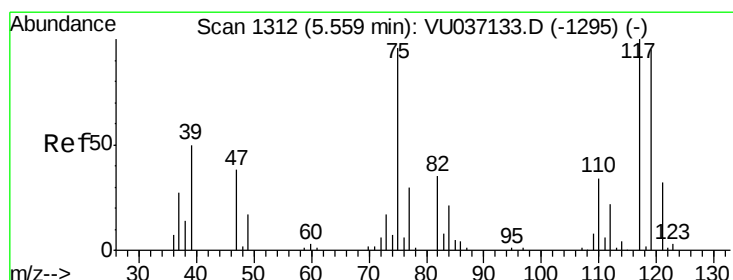
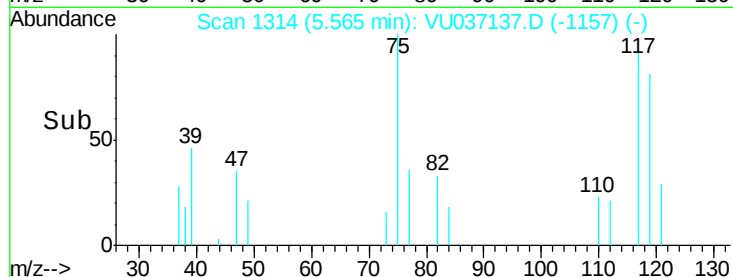
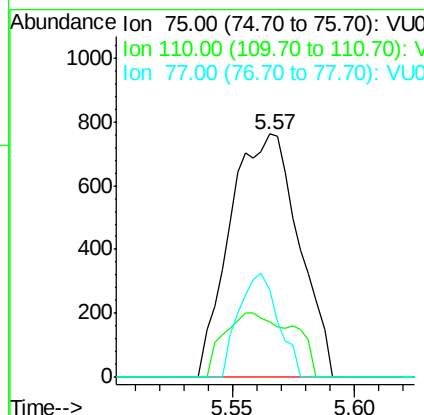
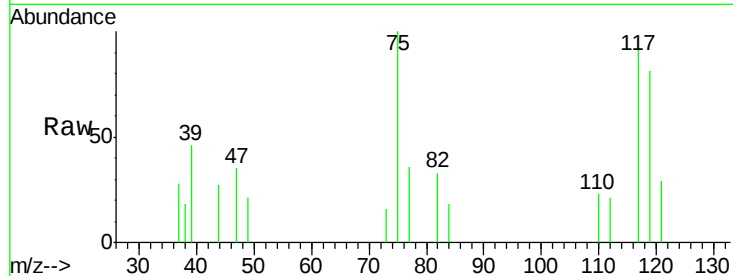
#29
 1,1-Dichloropropene
 Concen: 0.232 ug/l
 RT: 5.57 min Scan# 1314
 Delta R.T. 0.01 min
 Lab File: VU037137.D
 Acq: 09 Mar 2020 17:08

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
75	100		
110	27.0	18.6	55.8
77	24.3	25.0	37.4#

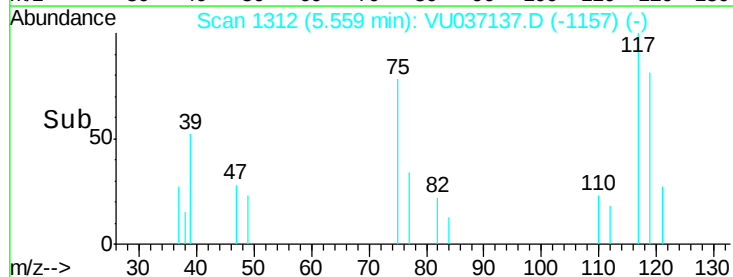
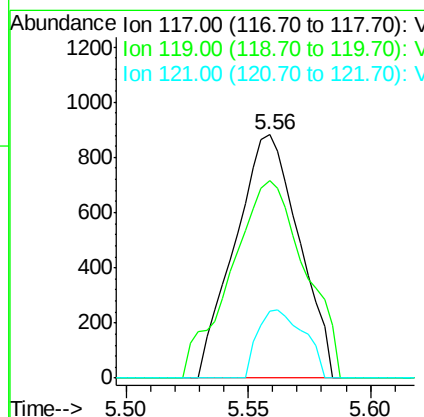
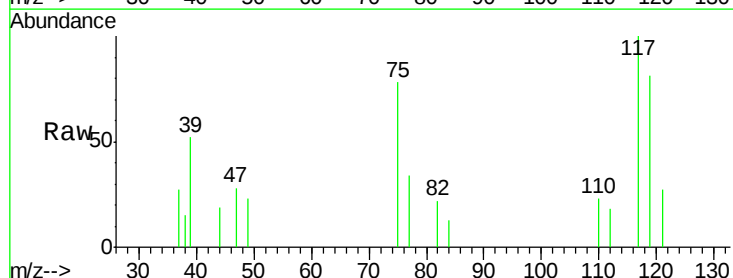
Manual Integrations
 APPROVED

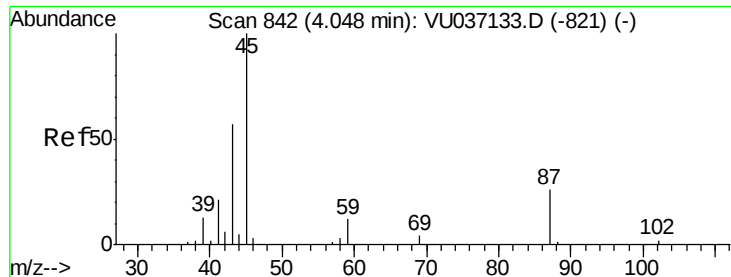
sam
 3/10/2020 3:07:14 PM



#30
 Carbon Tetrachloride
 Concen: 0.231 ug/l
 RT: 5.56 min Scan# 1312
 Delta R.T. -0.00 min
 Lab File: VU037137.D
 Acq: 09 Mar 2020 17:08

Tgt Ion	Ratio	Lower	Upper
117	100		
119	81.1	77.0	115.6
121	27.3	23.3	34.9





#31

Isopropyl Ether

Concen: 0.225 ug/l

RT: 4.05 min Scan# 842

Delta R.T. -0.00 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 45 Resp: 3096

Ion Ratio Lower Upper

45 100

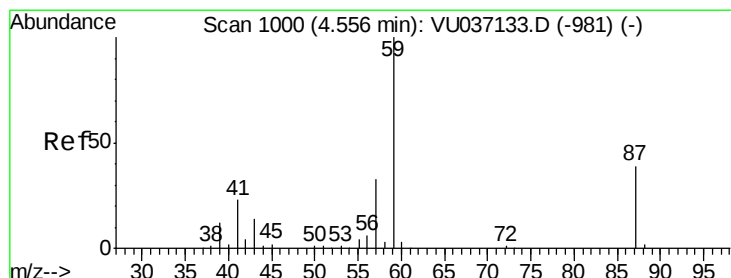
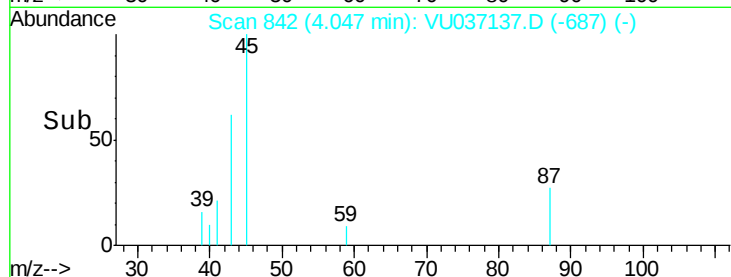
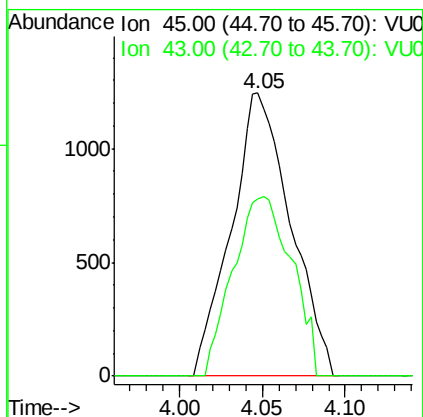
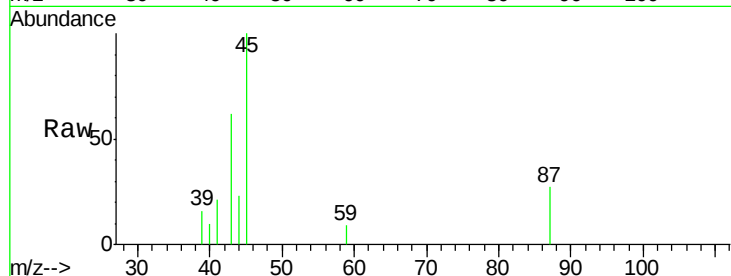
43 62.5 24.0 72.0

Manual Integrations

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#32

Ethyl-t-butyl ether

Concen: 0.239 ug/l

RT: 4.56 min Scan# 1001

Delta R.T. 0.00 min

Lab File: VU037137.D

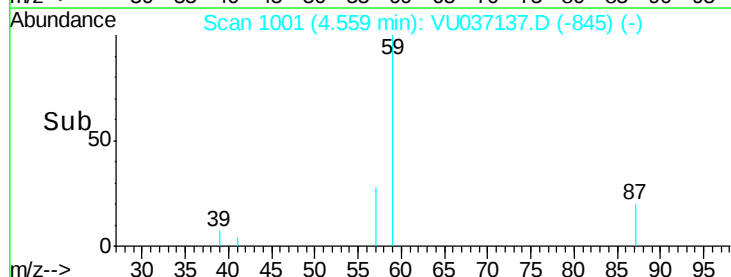
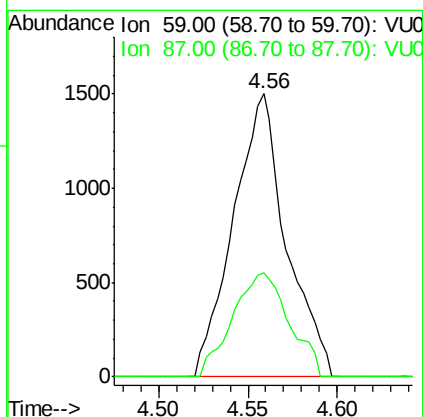
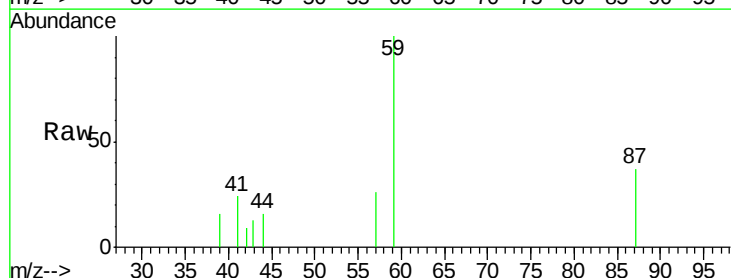
Acq: 09 Mar 2020 17:08

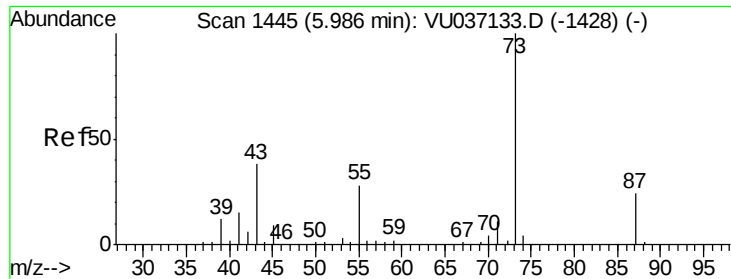
Tgt Ion: 59 Resp: 3097

Ion Ratio Lower Upper

59 100

87 39.3 35.1 52.7





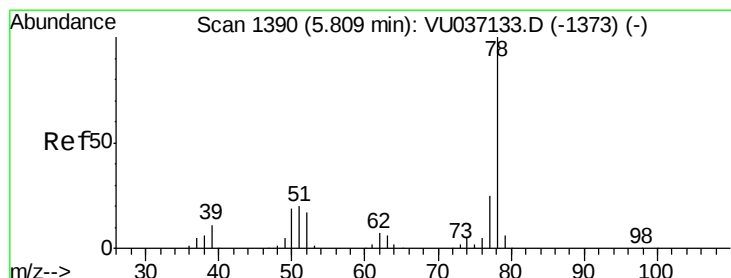
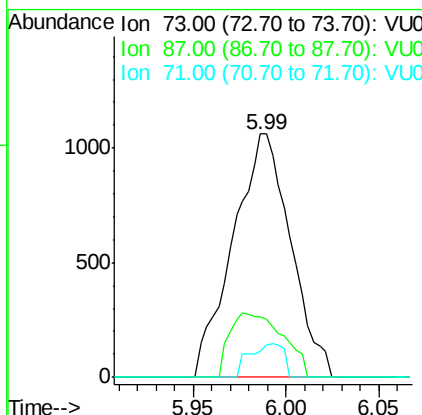
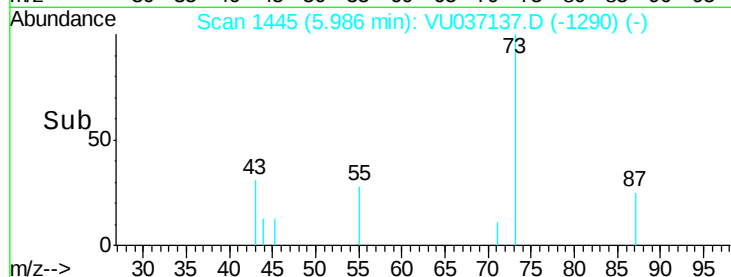
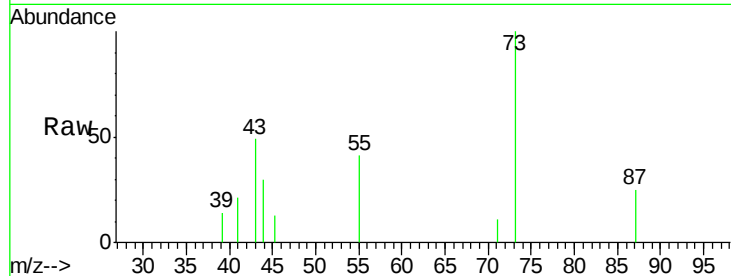
#33
Tert-Butyl methyl ether
Concen: 0.207 ug/l
RT: 5.99 min Scan# 1445
Delta R.T. -0.00 min
Lab File: VU037137.D
Acq: 09 Mar 2020 17:08

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
73	100		
87	24.3	19.8	29.6
71	8.1	9.1	13.7#

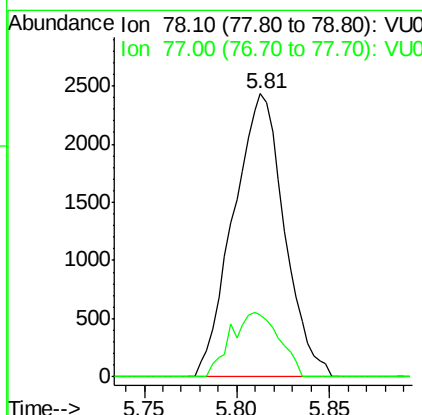
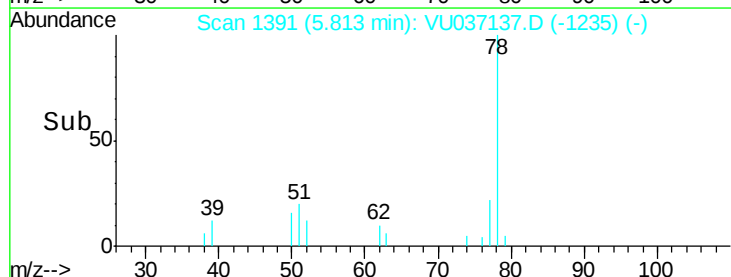
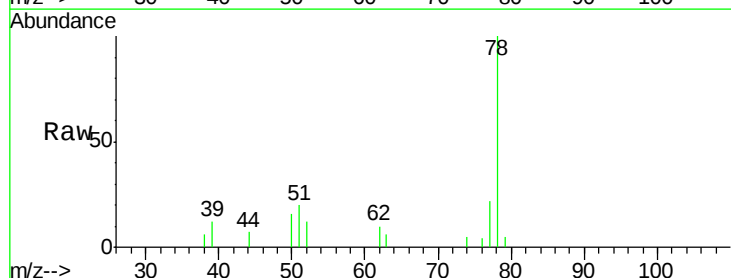
Manual Integrations
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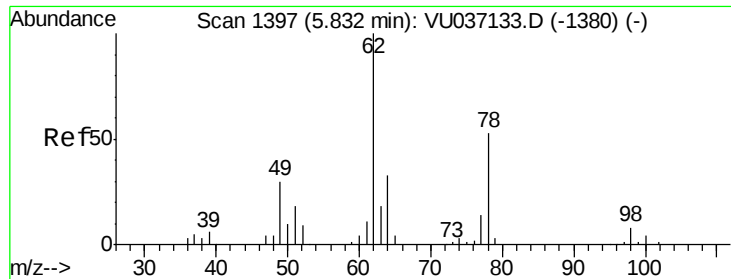
sam
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#35
Benzene
Concen: 0.255 ug/l
RT: 5.81 min Scan# 1391
Delta R.T. 0.00 min
Lab File: VU037137.D
Acq: 09 Mar 2020 17:08

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.8	19.4	29.0





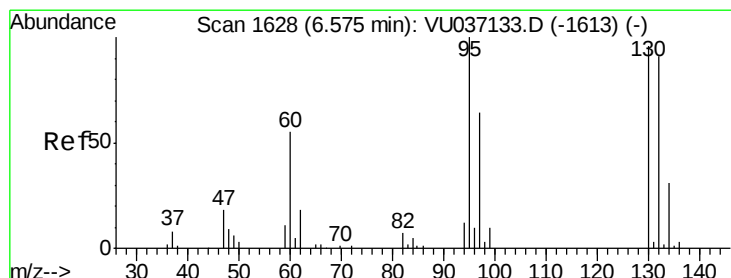
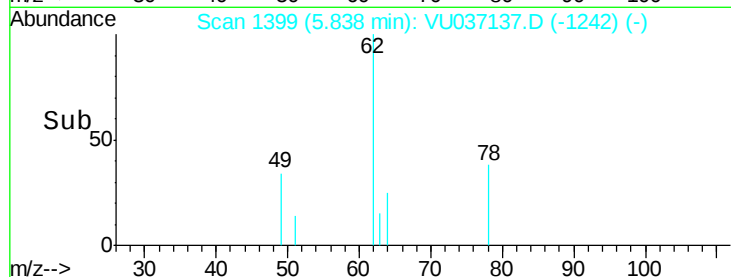
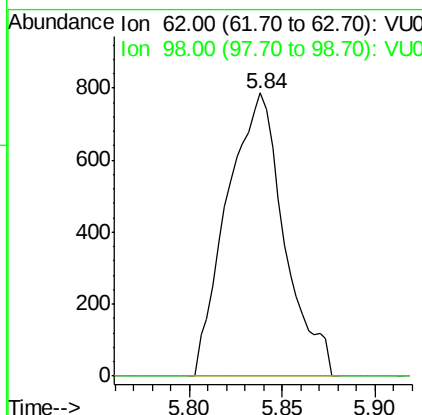
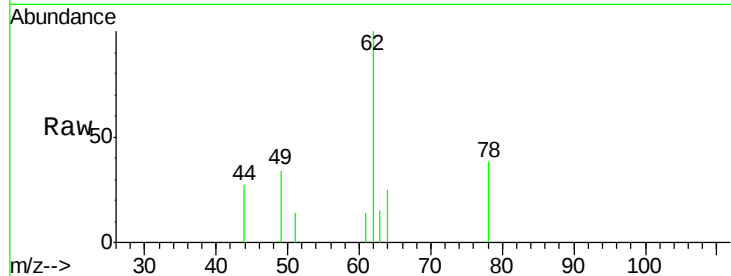
#36
 1,2-Dichloroethane
 Concen: 0.255 ug/l
 RT: 5.84 min Scan# 1399
 Delta R.T. 0.01 min
 Lab File: VU037137.D
 Acq: 09 Mar 2020 17:08

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2020

Tot Ion: 62 Resp: 1684
 Ion Ratio Lower Upper
 62 100
 98 0.0 7.8 11.8#

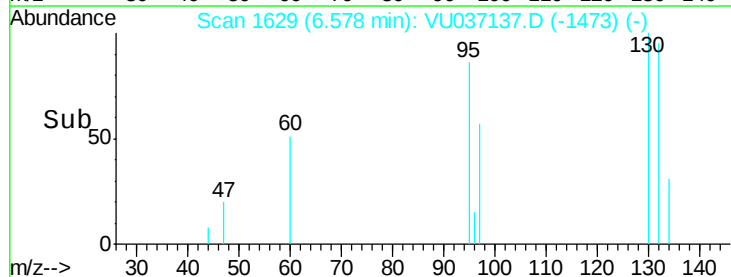
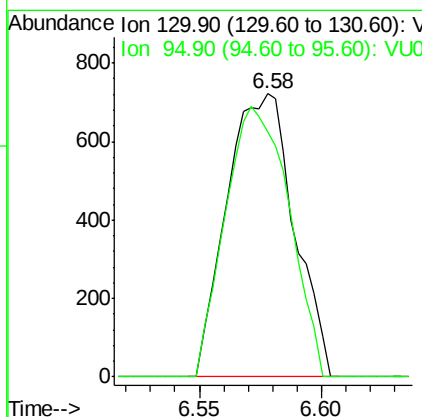
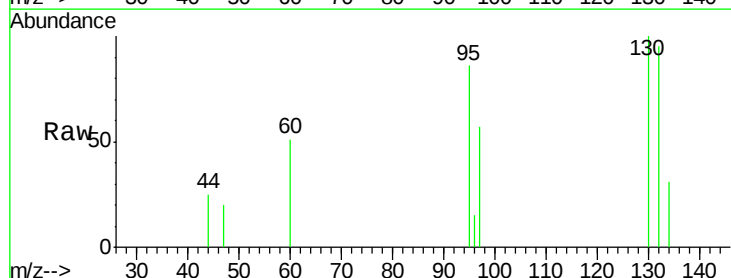
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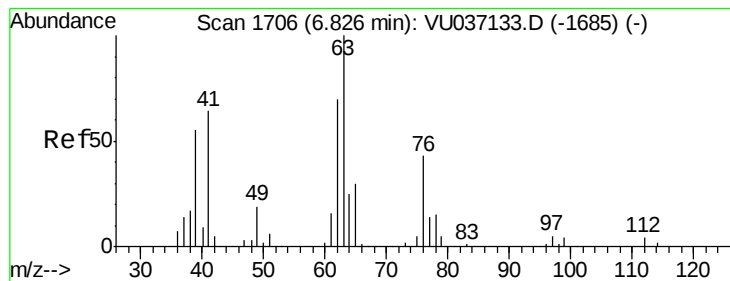
sam
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#37
 Trichloroethene
 Concen: 0.288 ug/l
 RT: 6.58 min Scan# 1629
 Delta R.T. 0.00 min
 Lab File: VU037137.D
 Acq: 09 Mar 2020 17:08

Tgt Ion:130 Resp: 1378
 Ion Ratio Lower Upper
 130 100
 95 86.4 77.0 115.4





#38

1,2-Dichloropropane

Concen: 0.207 ug/l

RT: 6.83 min Scan# 1706

Delta R.T. -0.00 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 63 Resp: 1037

Ion Ratio Lower Upper

63 100

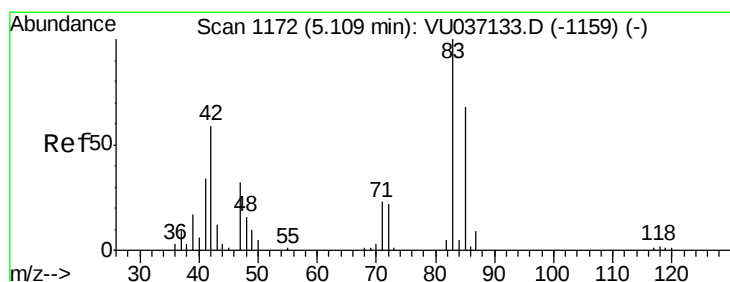
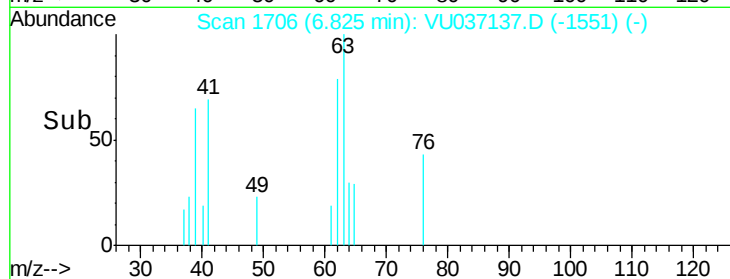
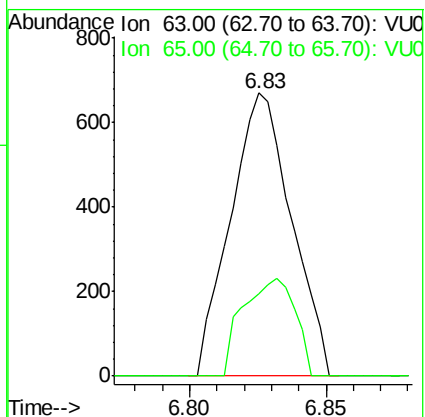
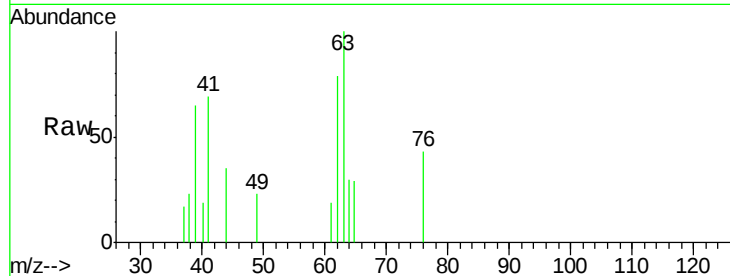
65 29.3 24.7 37.1

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#41

Tetrahydrofuran

Concen: 0.438 ug/l

RT: 5.11 min Scan# 1174

Delta R.T. 0.01 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

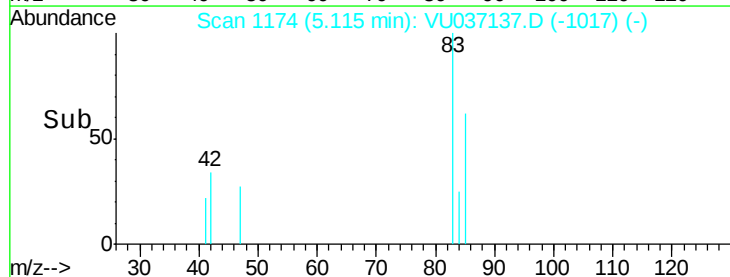
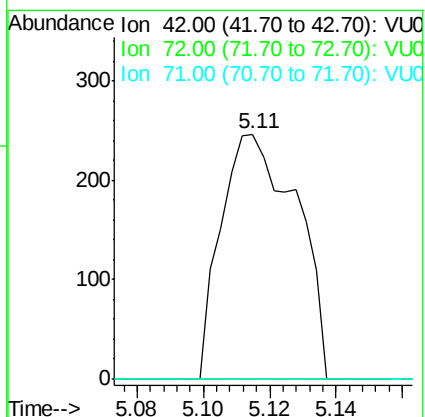
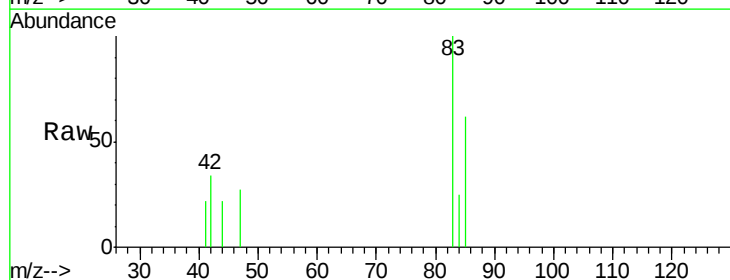
Tgt Ion: 42 Resp: 390

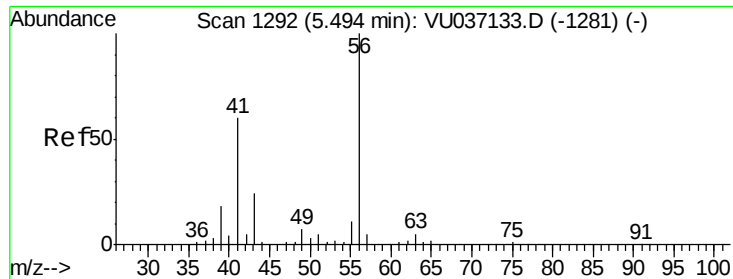
Ion Ratio Lower Upper

42 100

72 0.0 42.5 63.7#

71 0.0 37.3 55.9#





#42

1-Chlorobutane

Concen: 0.233 ug/l

RT: 5.49 min Scan# 1291

Delta R.T. -0.00 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 56 Resp: 2151

Ion Ratio Lower Upper

56 100

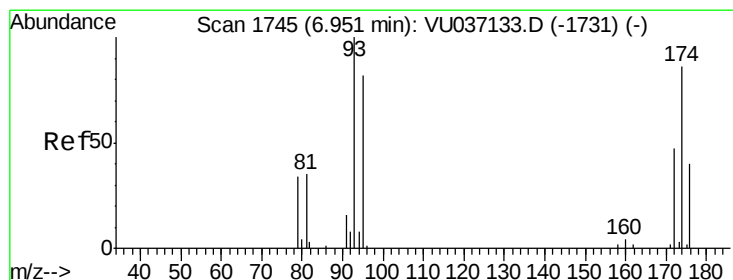
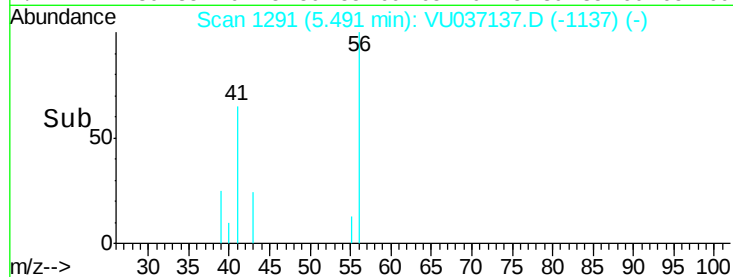
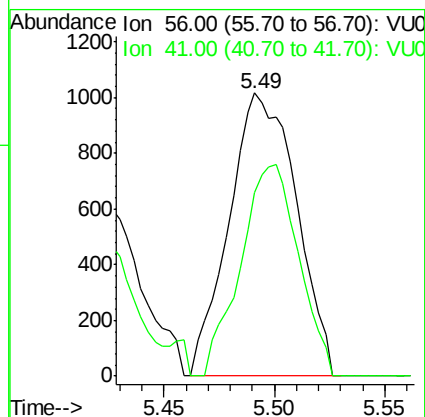
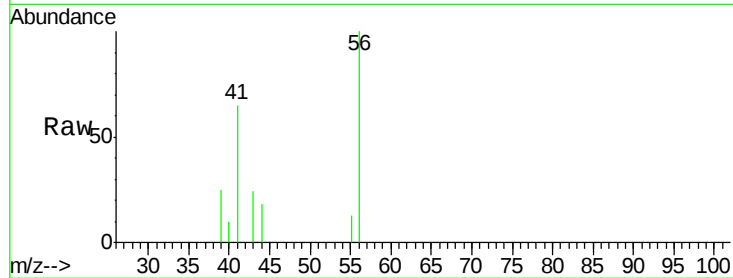
41 64.4 24.8 74.3

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#43

Dibromomethane

Concen: 0.232 ug/l

RT: 6.95 min Scan# 1745

Delta R.T. -0.00 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

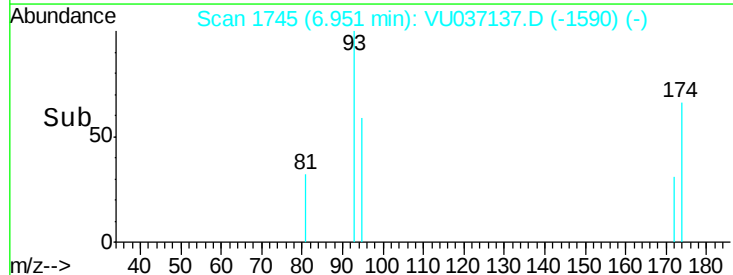
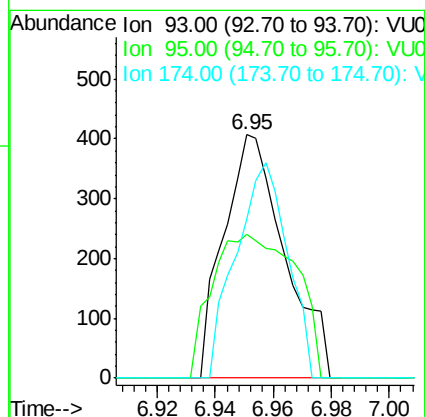
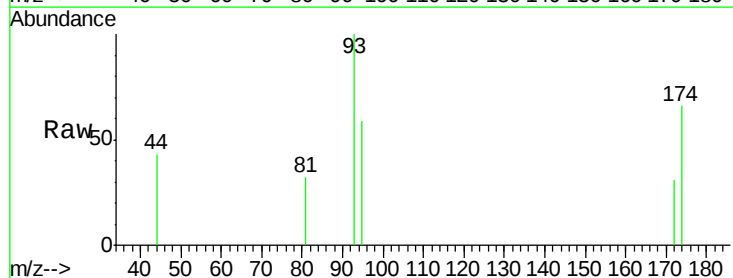
Tgt Ion: 93 Resp: 596

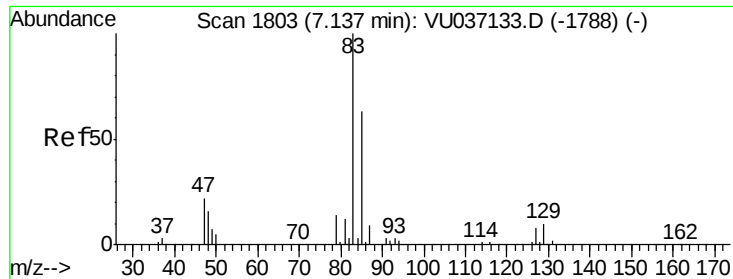
Ion Ratio Lower Upper

93 100

95 81.0 67.9 101.9

174 74.5 83.4 125.0#





#44

Bromodichloromethane

Concen: 0.232 ug/l

RT: 7.14 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

Instrument :

MSVOA_U

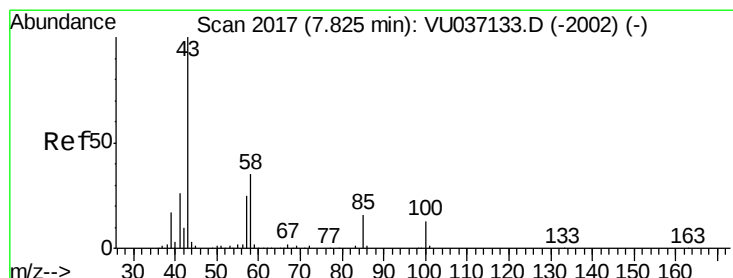
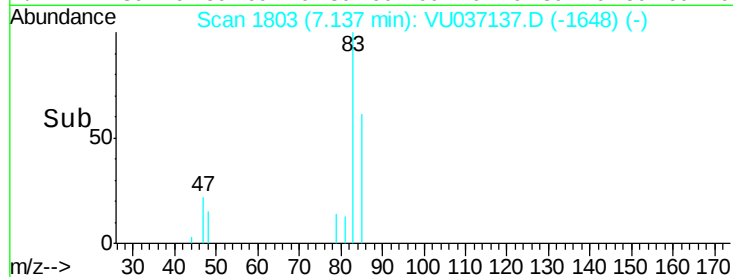
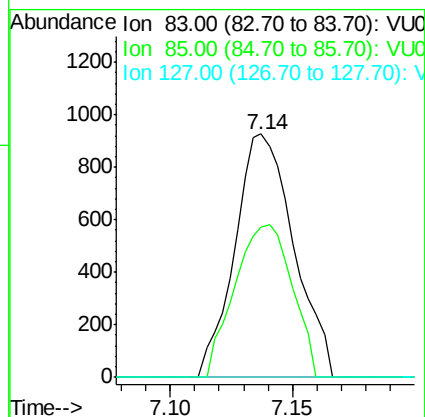
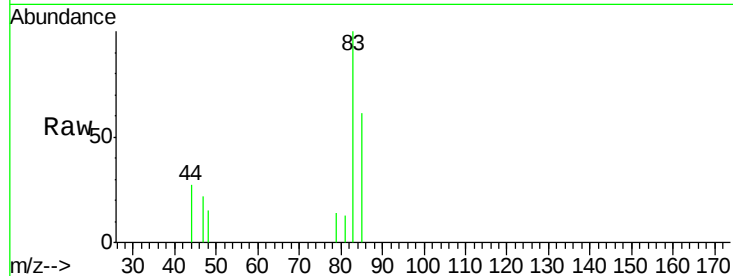
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion:	83	Resp:	1549
Ion	Ratio	Lower	Upper
83	100		
85	61.5	51.8	77.6
127	0.0	6.8	10.2#

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#45

4-Methyl-2-Pentanone

Concen: 1.275 ug/l

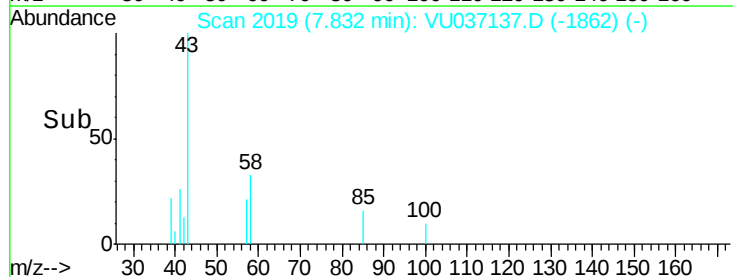
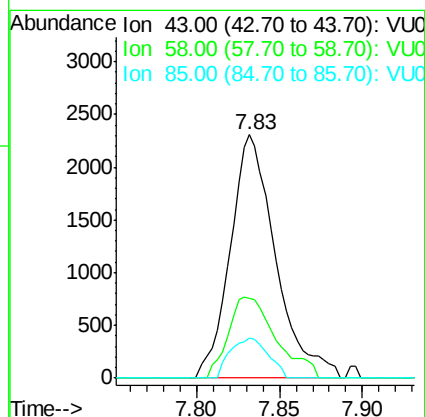
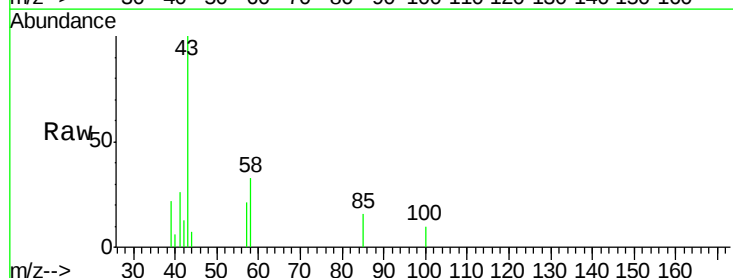
RT: 7.83 min Scan# 2019

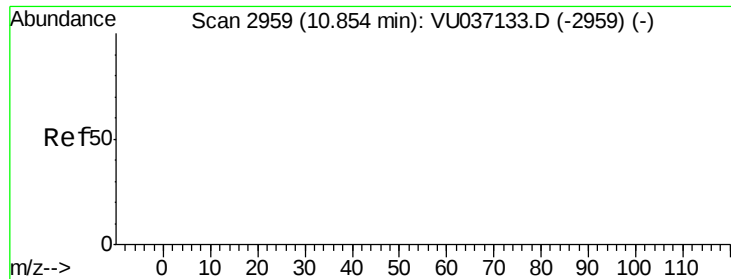
Delta R.T. 0.01 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

Tgt Ion:	43	Resp:	4388
Ion	Ratio	Lower	Upper
43	100		
58	35.1	22.1	66.1
85	13.7	17.4	26.0#





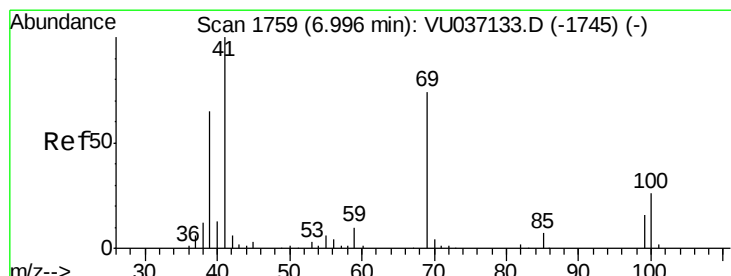
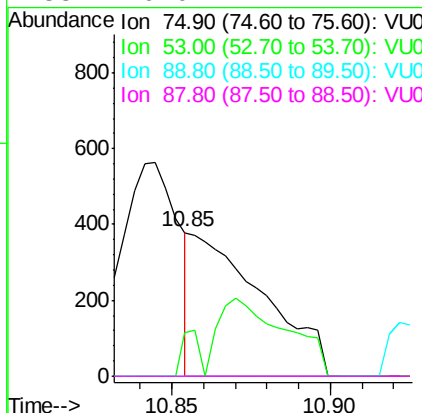
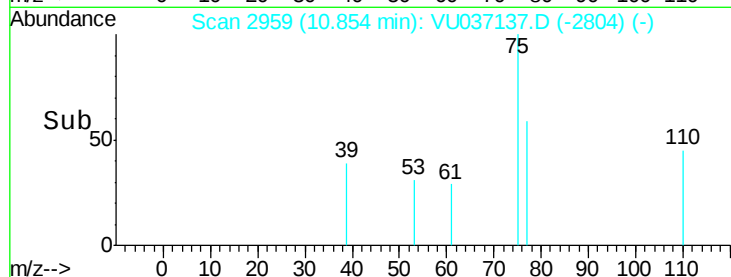
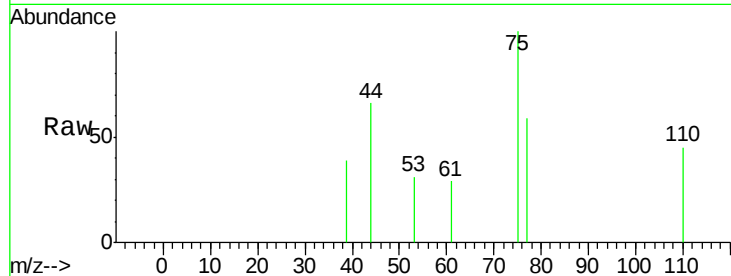
#46
t-1,4-Dichloro-2-butene
Concen: 0.626 ug/l m
RT: 10.85 min Scan# 2959
Delta R.T. -0.00 min
Lab File: VU037137.D
Acq: 09 Mar 2020 17:08

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
75	100		
53	0.0	52.2	78.2#
89	0.0	39.8	59.6#
88	0.0	27.4	41.2#

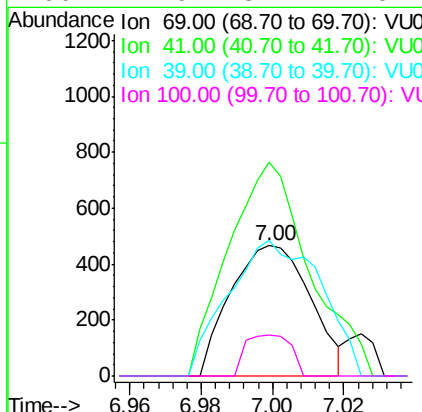
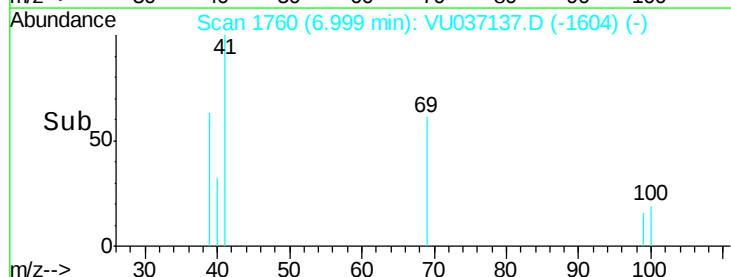
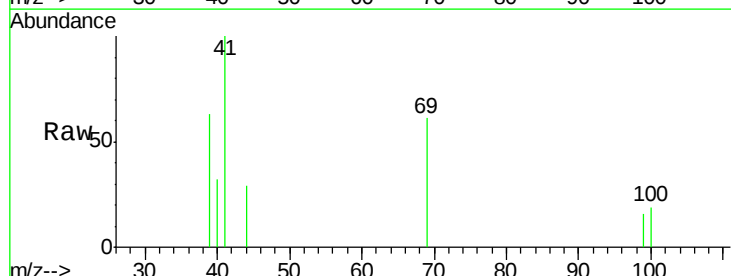
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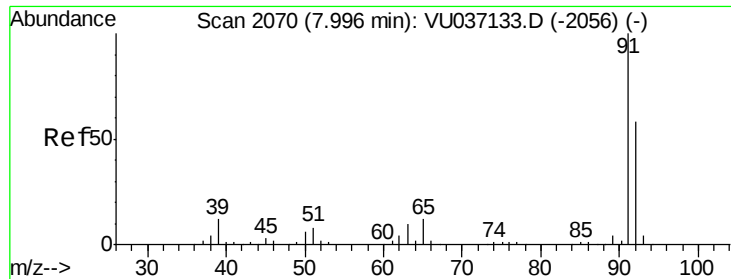
sam
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#47
Methyl methacrylate
Concen: 0.340 ug/l
RT: 7.00 min Scan# 1760
Delta R.T. 0.00 min
Lab File: VU037137.D
Acq: 09 Mar 2020 17:08

Tgt Ion	Ratio	Lower	Upper
69	100		
41	167.0	0.0	200.8
39	121.1	43.5	65.3#
100	17.9	31.1	46.7#





#49

Toluene

Concen: 0.207 ug/l

RT: 8.00 min Scan# 2072

Delta R.T. 0.01 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 92 Resp: 2283

Ion Ratio Lower Upper

92 100

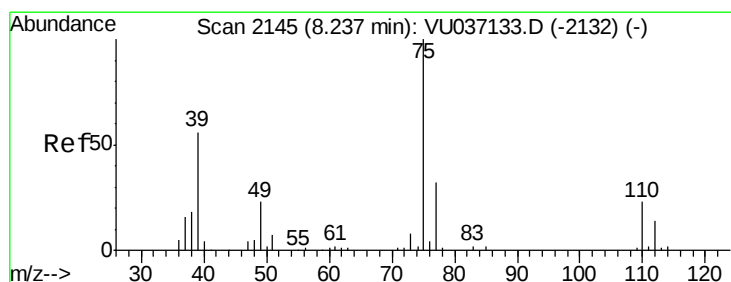
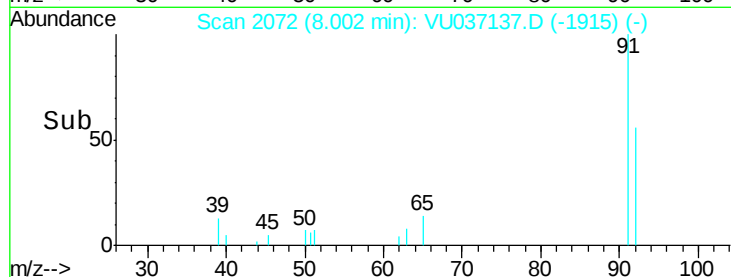
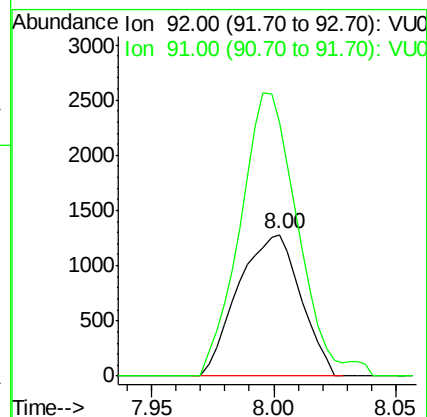
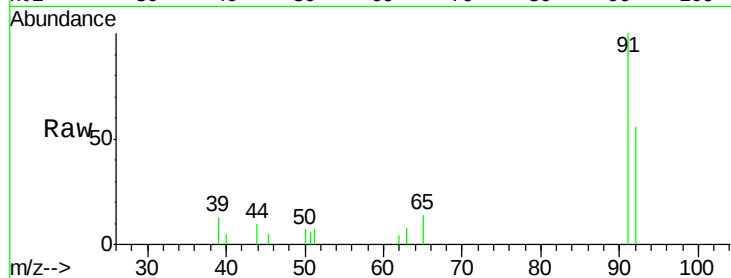
91 183.9 139.1 208.7

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#50

t-1,3-Dichloropropene

Concen: 0.204 ug/l

RT: 8.24 min Scan# 2146

Delta R.T. 0.00 min

Lab File: VU037137.D

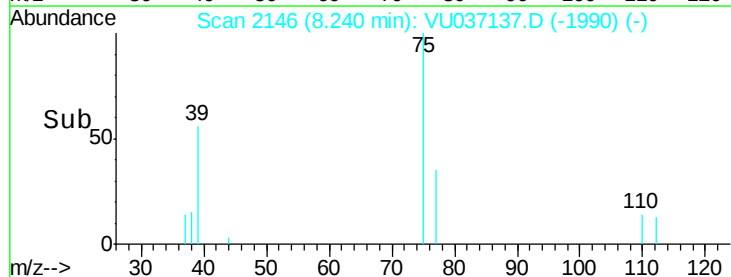
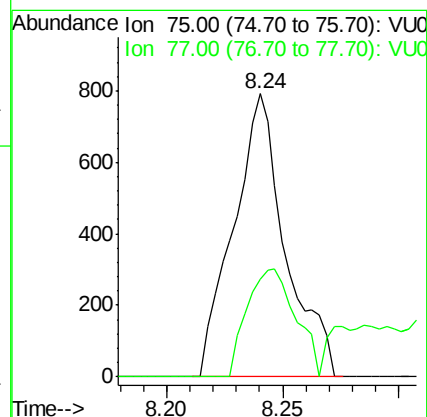
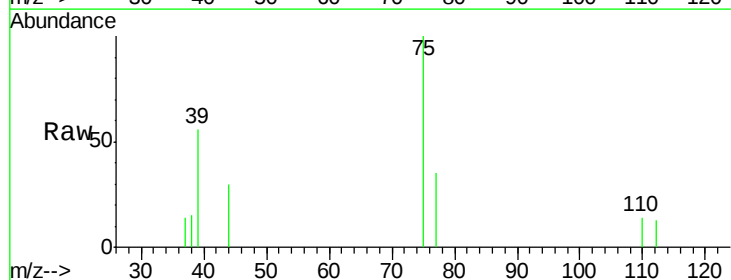
Acq: 09 Mar 2020 17:08

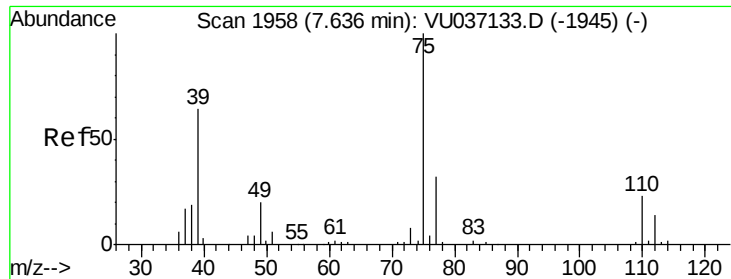
Tgt Ion: 75 Resp: 1229

Ion Ratio Lower Upper

75 100

77 34.6 25.4 38.2





#51

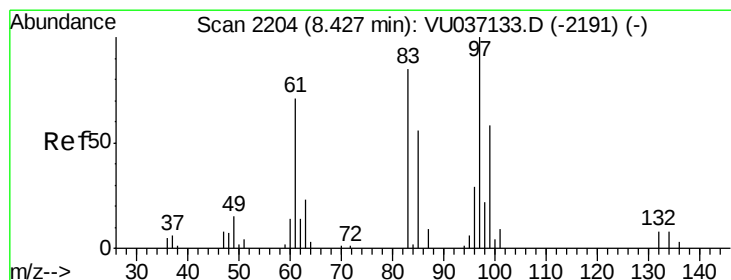
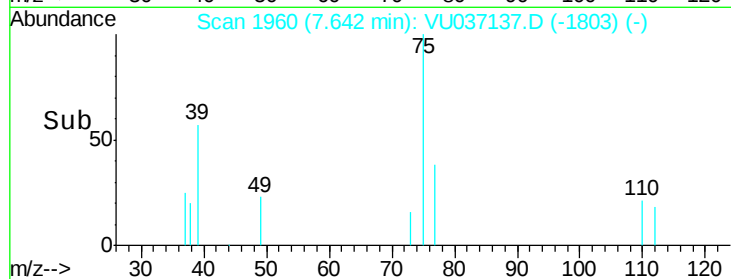
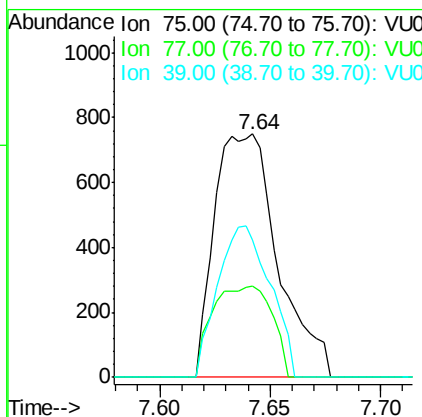
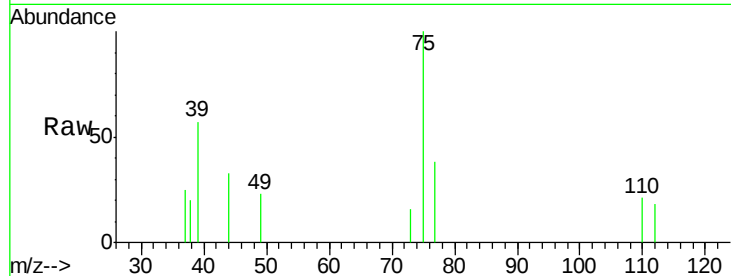
cis-1,3-Dichloropropene
Concen: 0.217 ug/l
RT: 7.64 min Scan# 1960
Delta R.T. 0.01 min
Lab File: VU037137.D
Acq: 09 Mar 2020 17:08

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
75	100		
77	37.6	25.3	37.9
39	56.5	31.8	47.6#

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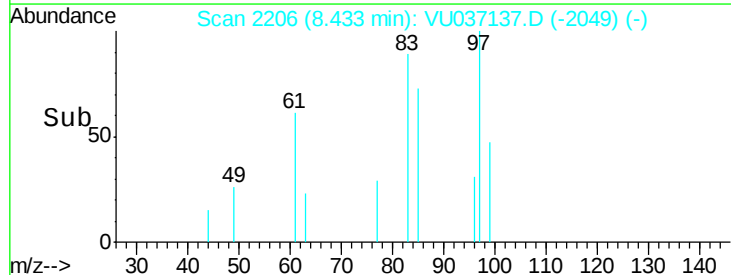
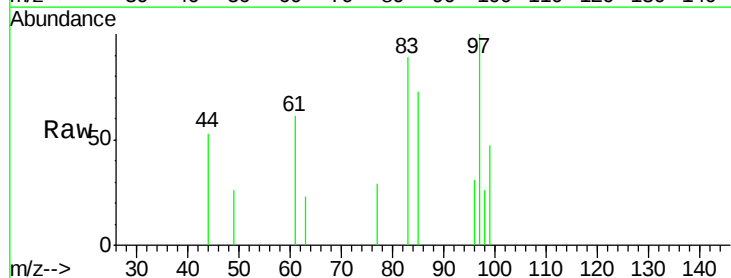
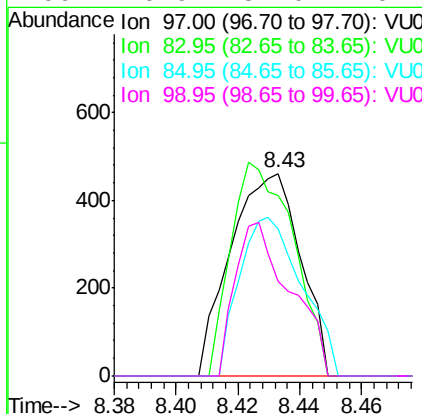
sam
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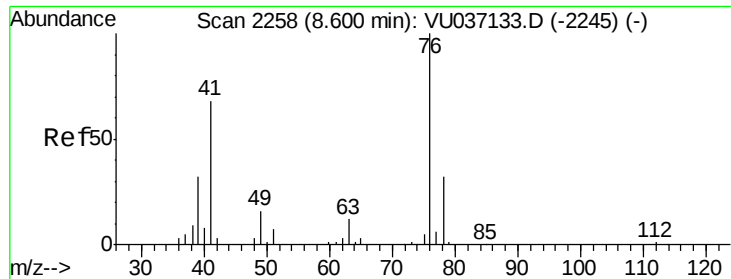


#52

1,1,2-Trichloroethane
Concen: 0.211 ug/l
RT: 8.43 min Scan# 2206
Delta R.T. 0.01 min
Lab File: VU037137.D
Acq: 09 Mar 2020 17:08

Tgt Ion	Ratio	Lower	Upper
97	100		
83	89.2	70.9	106.3
85	72.7	45.6	68.4#
99	46.9	51.0	76.4#





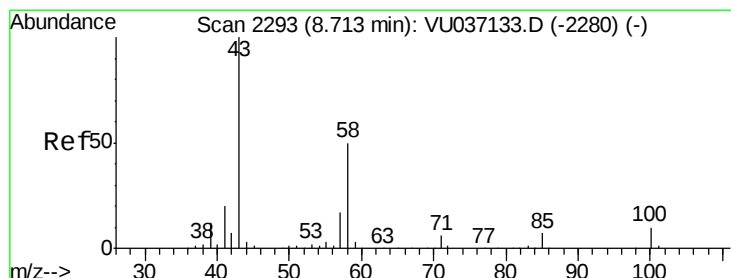
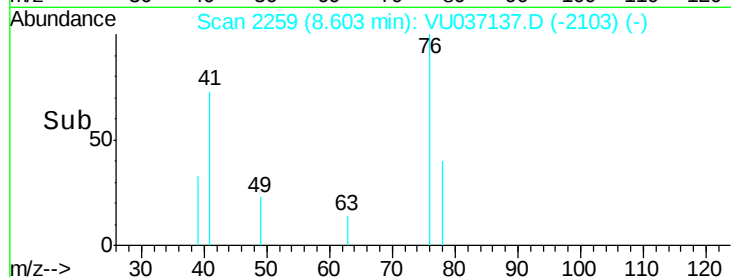
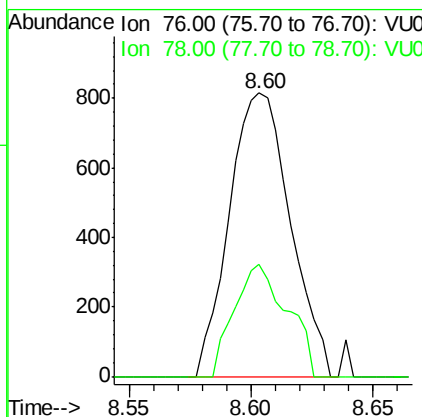
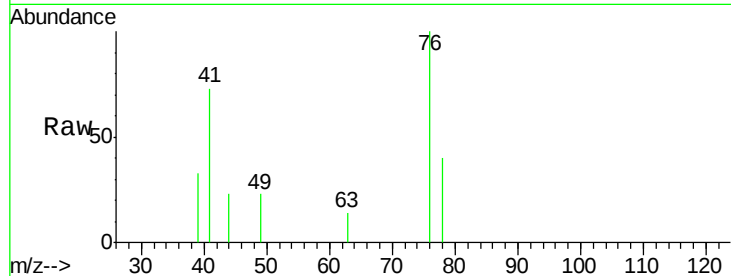
#53
 1,3-Dichloropropane
 Concen: 0.233 ug/l
 RT: 8.60 min Scan# 2259
 Delta R.T. 0.00 min
 Lab File: VU037137.D
 Acq: 09 Mar 2020 17:08

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2020

Tot Ion: 76 Resp: 1413
 Ion Ratio Lower Upper
 76 100
 78 34.4 25.4 38.2

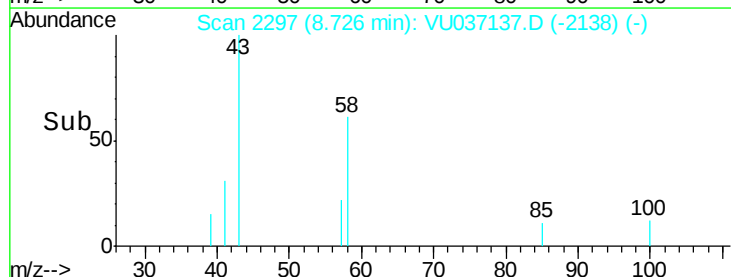
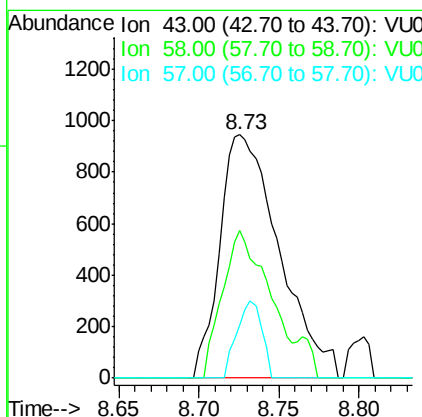
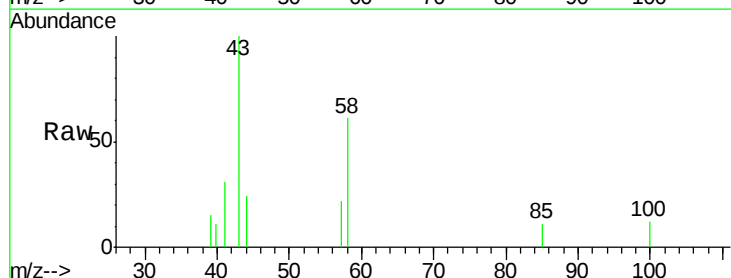
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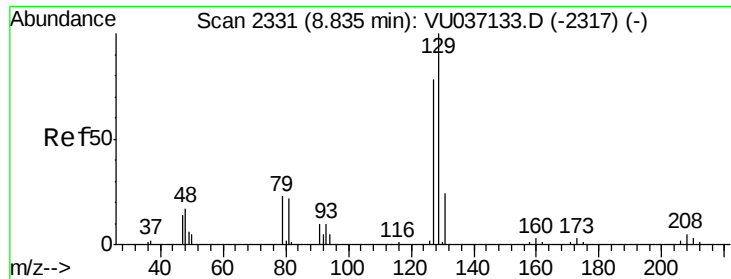
sam
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#54
 2-Hexanone
 Concen: 1.017 ug/l
 RT: 8.73 min Scan# 2297
 Delta R.T. 0.01 min
 Lab File: VU037137.D
 Acq: 09 Mar 2020 17:08

Tgt Ion: 43 Resp: 2412
 Ion Ratio Lower Upper
 43 100
 58 47.0 40.6 80.6
 57 13.0 1.2 41.2





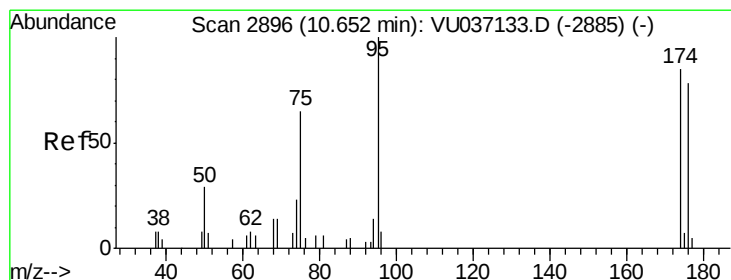
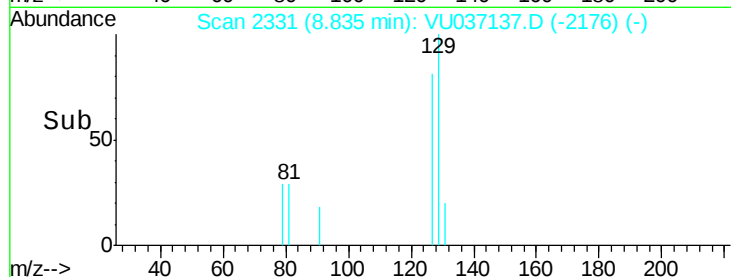
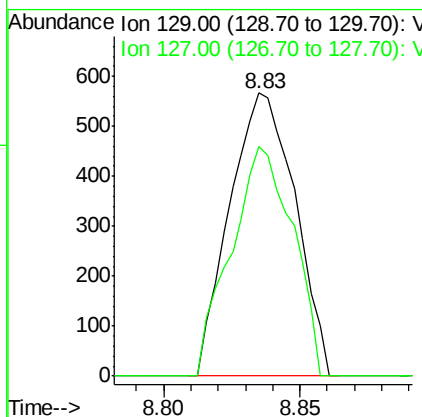
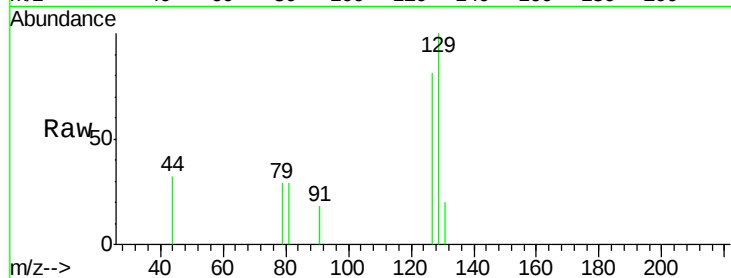
#55
Dibromochloromethane
Concen: 0.222 ug/l
RT: 8.83 min Scan# 2331
Delta R.T. -0.00 min
Lab File: VU037137.D
Acq: 09 Mar 2020 17:08

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
129	100		
127	76.6	62.6	94.0

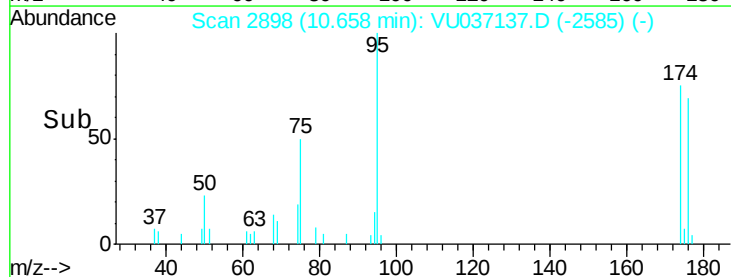
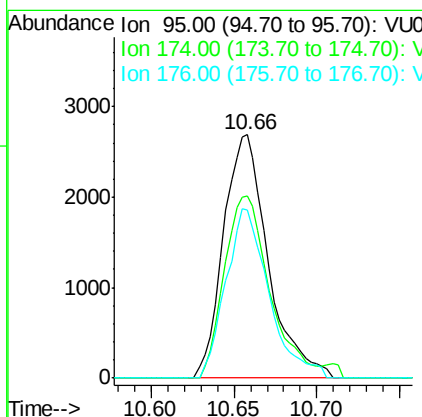
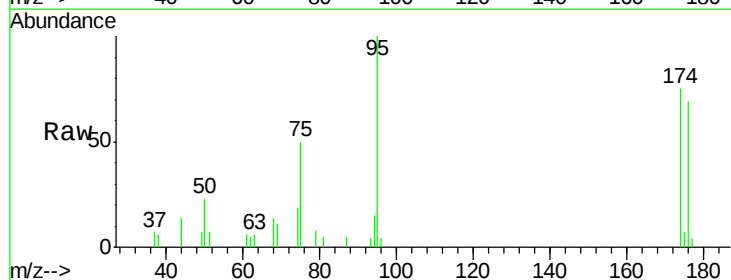
Manual Integrations
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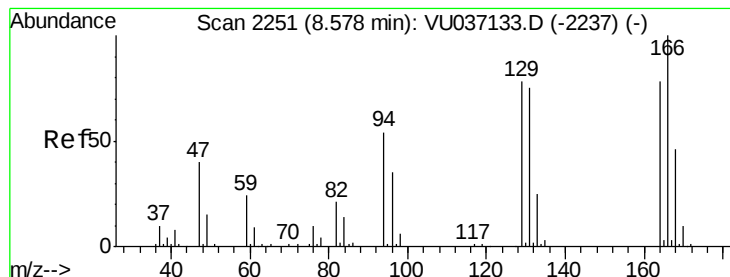
sam
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#57
4-Bromofluorobenzene
Concen: 0.861 ug/l
RT: 10.66 min Scan# 2898
Delta R.T. 0.01 min
Lab File: VU037137.D
Acq: 09 Mar 2020 17:08

Tgt Ion	Ratio	Lower	Upper
95	100		
174	76.3	64.7	97.1
176	67.2	60.6	91.0





#58

Tetrachloroethene

Concen: 0.304 ug/l

RT: 8.58 min Scan# 2252

Delta R.T. 0.00 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion:164 Resp: 1368

Ion Ratio Lower Upper

164 100

166 98.7 102.0 153.0#

129 89.5 74.9 112.3

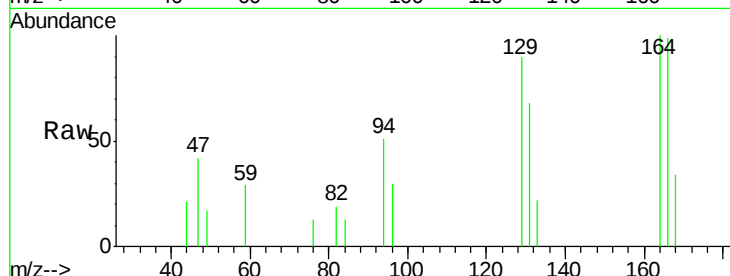
131 67.7 72.6 108.8#

Manual Integrations

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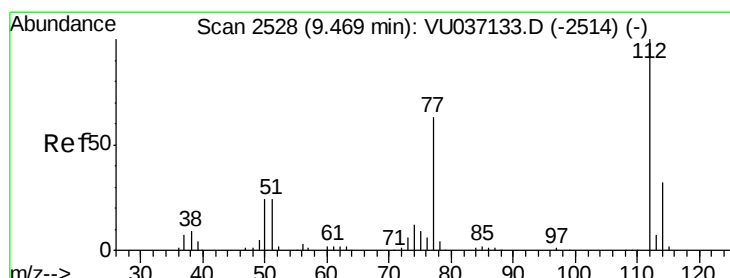
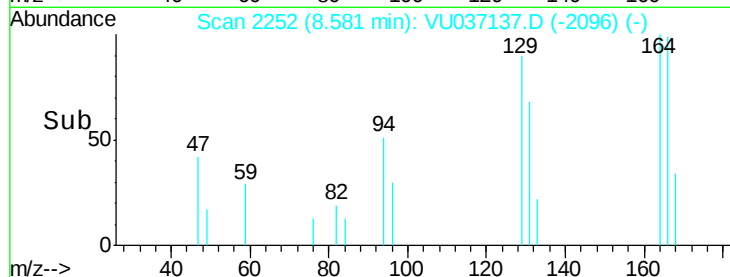
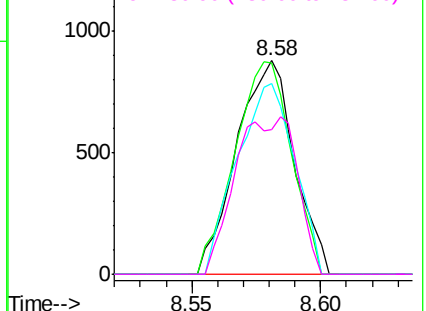


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#59

Chlorobenzene

Concen: 0.269 ug/l

RT: 9.47 min Scan# 2529

Delta R.T. 0.00 min

Lab File: VU037137.D

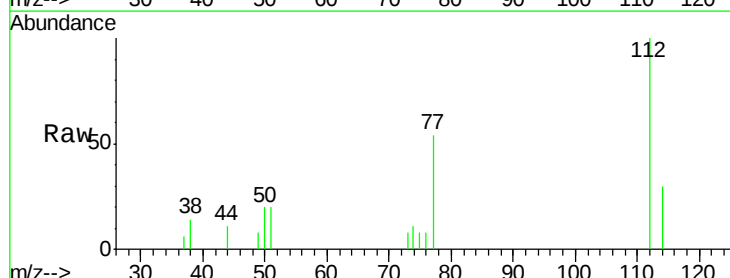
Acq: 09 Mar 2020 17:08

Tgt Ion:112 Resp: 3302

Ion Ratio Lower Upper

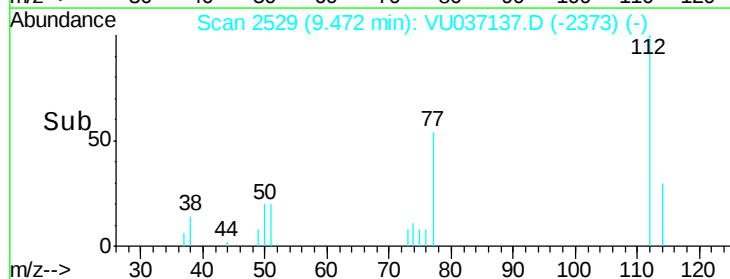
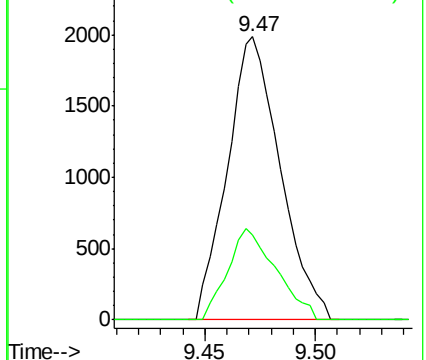
112 100

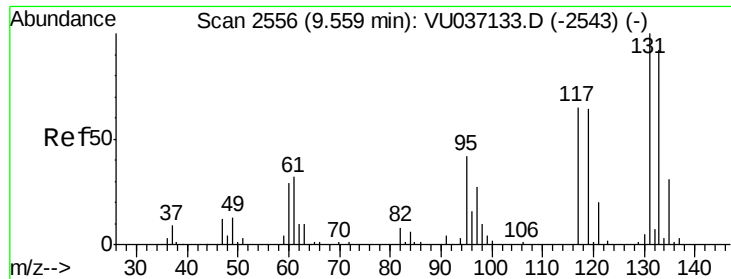
114 30.1 25.8 38.8



Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V





#60

1,1,1,2-Tetrachloroethane

Concen: 0.230 ug/l

RT: 9.56 min Scan# 2556

Delta R.T. -0.00 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

Instrument :

MSVOA_U

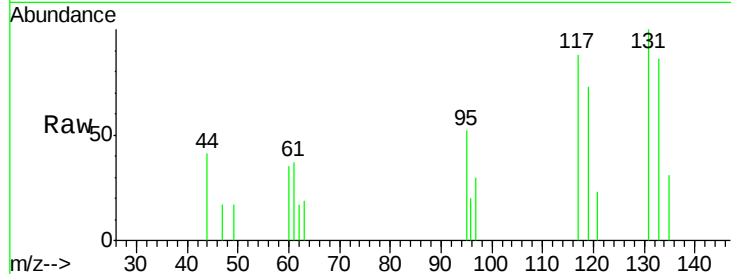
ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

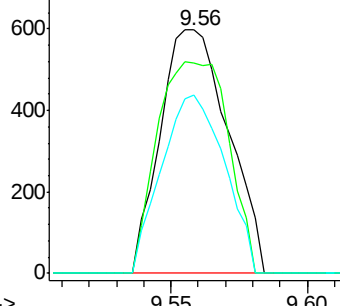
Tot Ion:	131	Resp:	1035
Ion Ratio	Lower	Upper	
131	100		
133	90.8	76.4	114.6
119	68.0	56.6	85.0

Manual Integrations
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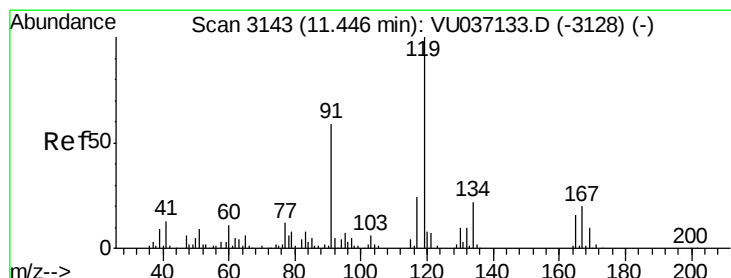
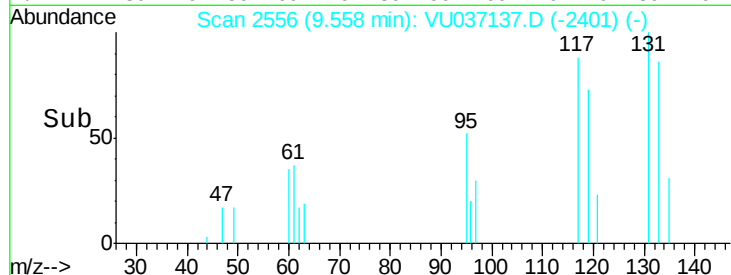
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Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V



Time-->



#61

Pentachloroethane

Concen: 0.218 ug/l

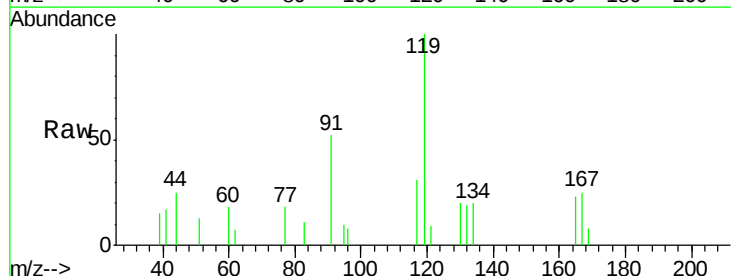
RT: 11.45 min Scan# 3144

Delta R.T. 0.00 min

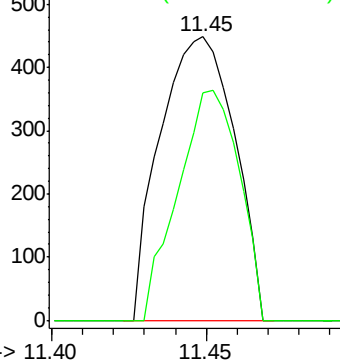
Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

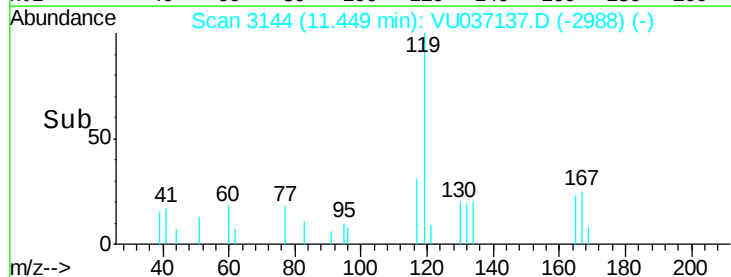
Tgt Ion:	117	Resp:	749
Ion Ratio	Lower	Upper	
117	100		
167	66.9	66.7	100.1

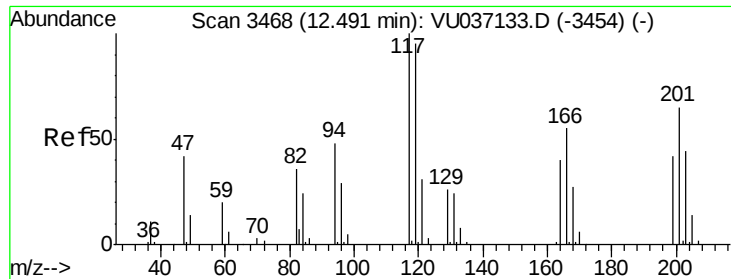


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 166.70 (166.40 to 167.40): V



Time-->





#62

Hexachloroethane

Concen: 0.222 ug/l

RT: 12.49 min Scan# 3469

Delta R.T. 0.00 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion:117 Resp: 815

Ion Ratio Lower Upper

117 100

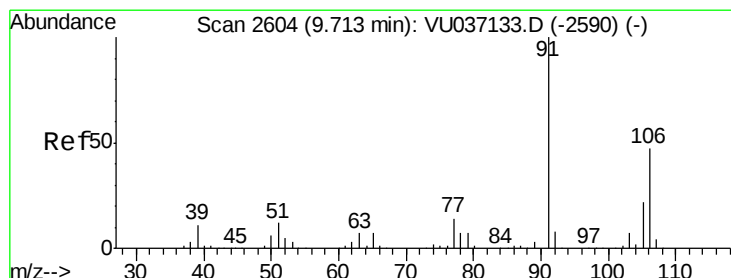
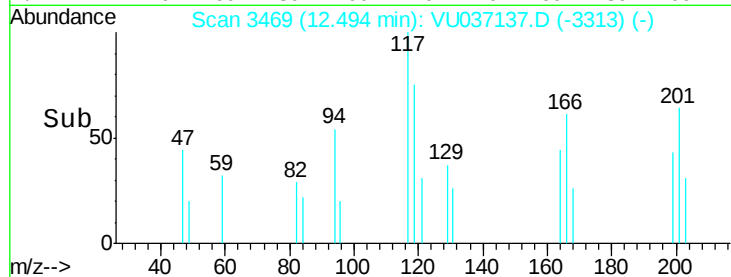
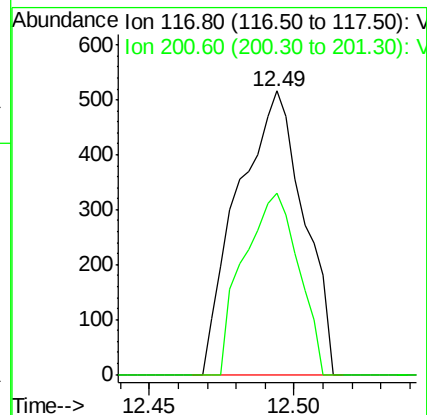
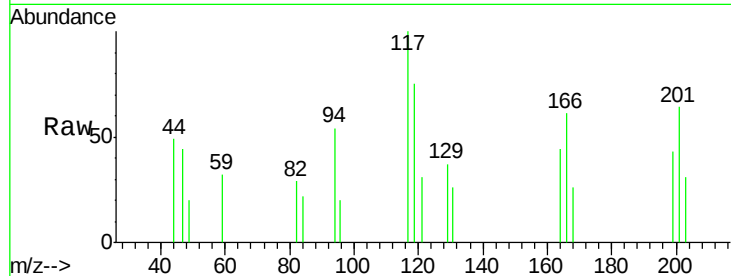
201 53.4 65.0 97.4#

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#64

m/p-Xylenes

Concen: 0.389 ug/l

RT: 9.72 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VU037137.D

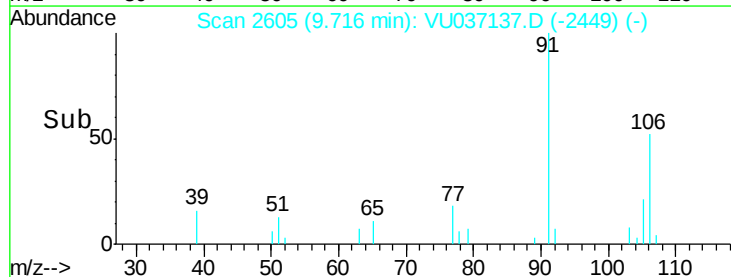
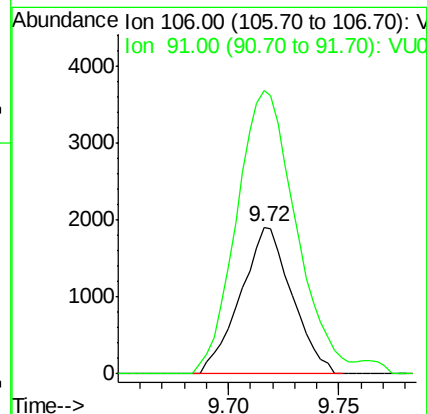
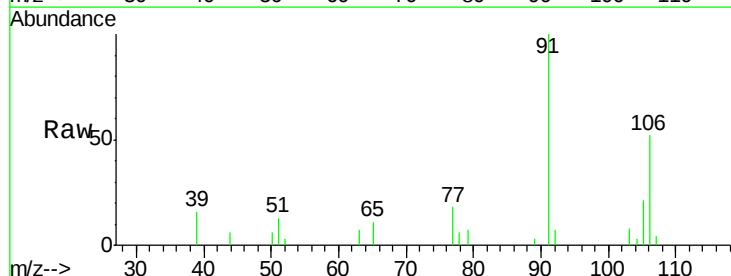
Acq: 09 Mar 2020 17:08

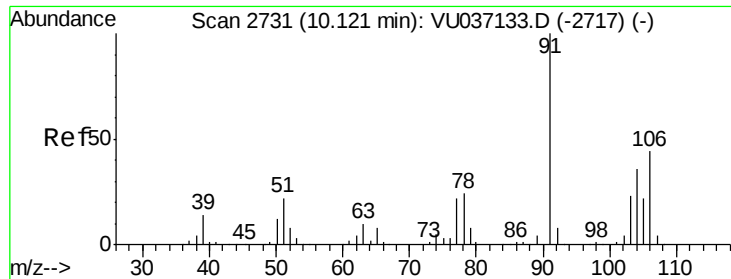
Tgt Ion:106 Resp: 3088

Ion Ratio Lower Upper

106 100

91 222.7 158.2 237.4





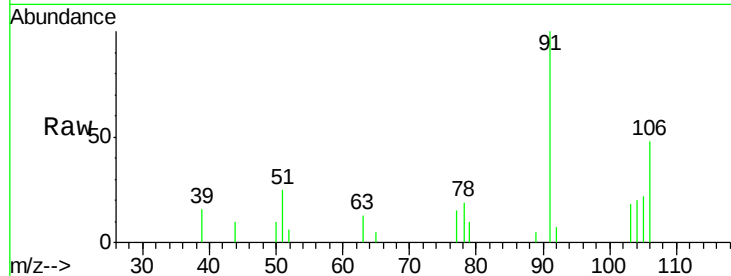
#65
o-Xylene
Concen: 0.211 ug/l
RT: 10.12 min Scan# 2731
Delta R.T. -0.00 min
Lab File: VU037137.D
Acq: 09 Mar 2020 17:08

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT1-2020

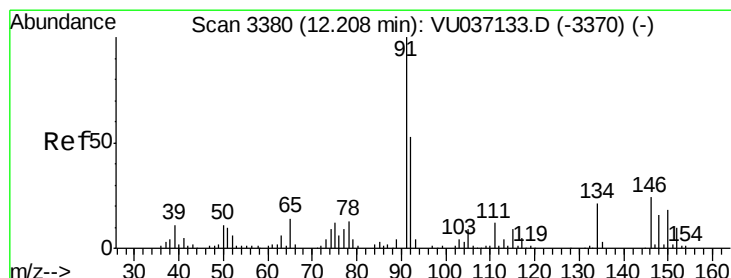
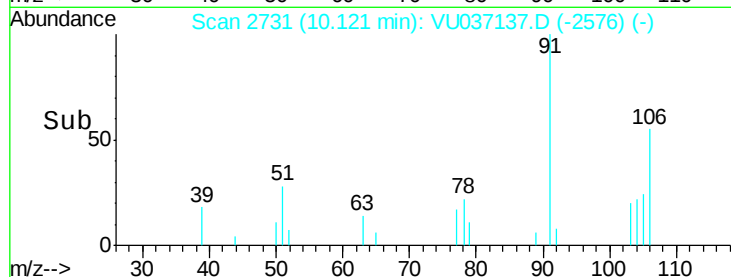
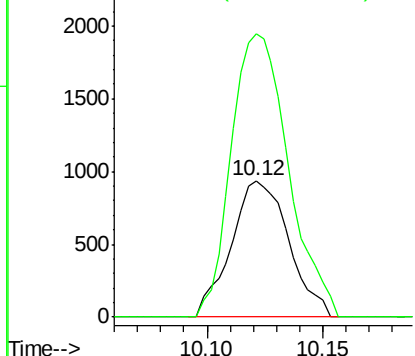
Tot Ion:106 Resp: 1616
Ion Ratio Lower Upper
106 100
91 206.1 104.3 312.9

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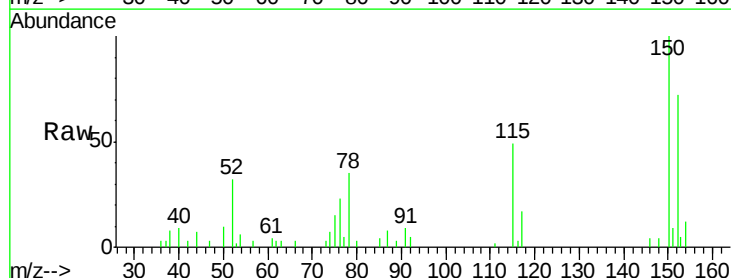


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VU0

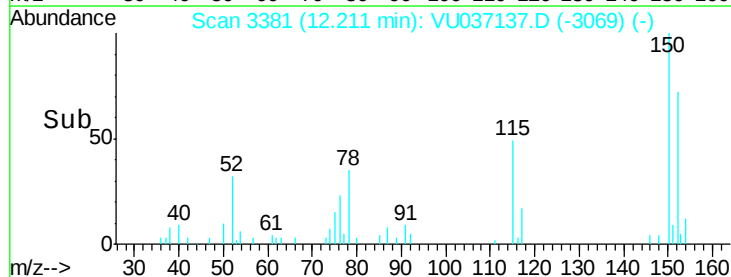
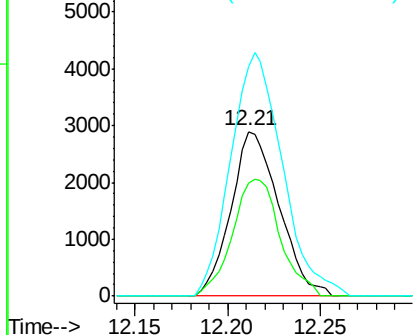


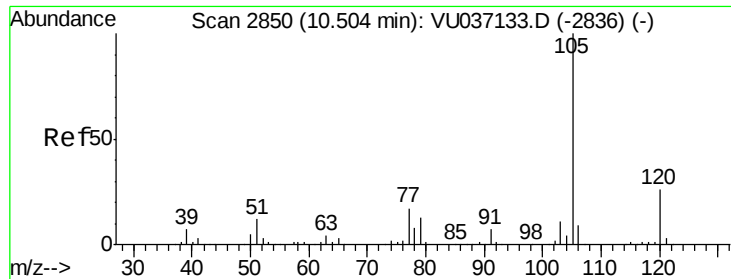
#68
1,2-Dichlorobenzene-d4
Concen: 0.873 ug/l
RT: 12.21 min Scan# 3381
Delta R.T. 0.00 min
Lab File: VU037137.D
Acq: 09 Mar 2020 17:08

Tgt Ion:152 Resp: 5207
Ion Ratio Lower Upper
152 100
115 70.3 0.0 241.8
150 159.3 0.0 652.4



Abundance Ion 152.00 (151.70 to 152.70): V
Ion 115.00 (114.70 to 115.70): V
Ion 150.00 (149.70 to 150.70): V





#69

Isopropylbenzene

Concen: 0.205 ug/l

RT: 10.51 min Scan# 2851

Delta R.T. 0.00 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion: 105 Resp: 4284

Ion Ratio Lower Upper

105 100

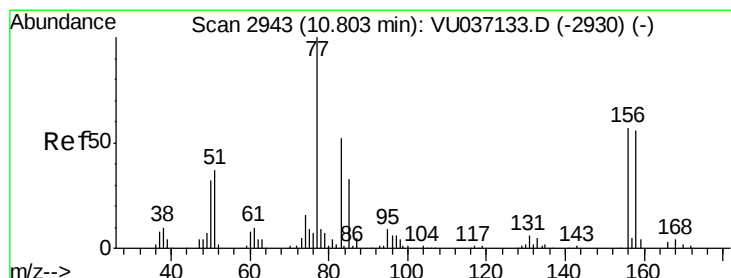
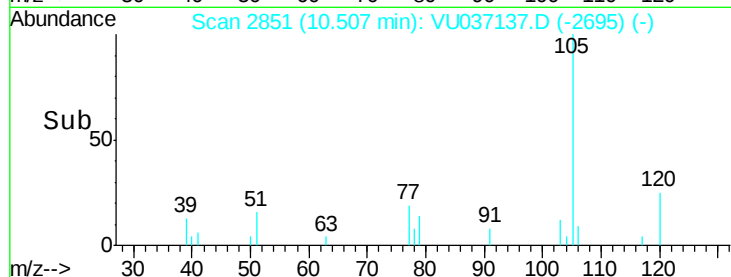
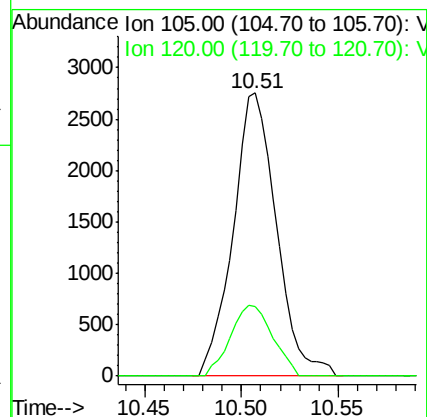
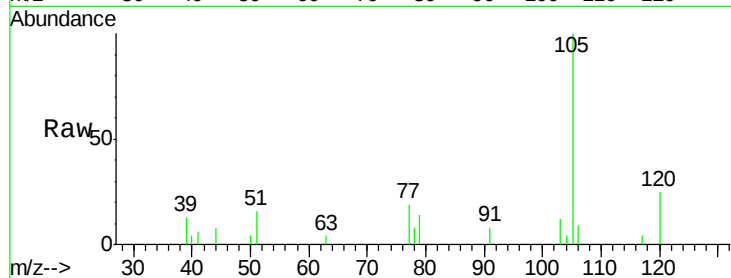
120 24.3 13.6 40.7

Manual Integrations

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#70

1,1,2,2-Tetrachloroethane

Concen: 0.246 ug/l

RT: 10.81 min Scan# 2944

Delta R.T. 0.00 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

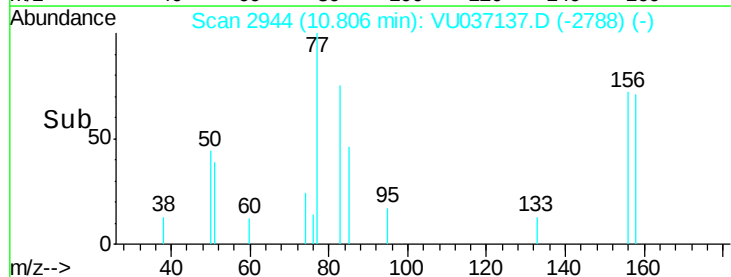
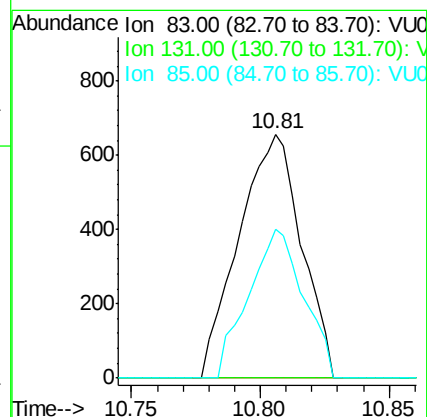
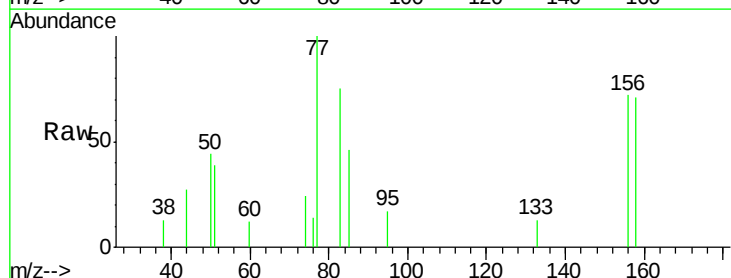
Tgt Ion: 83 Resp: 1109

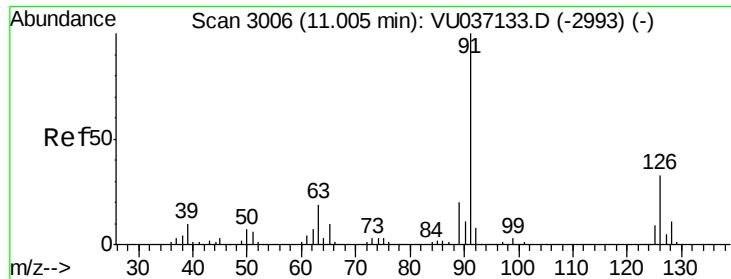
Ion Ratio Lower Upper

83 100

131 0.0 7.8 11.8#

85 53.7 53.2 79.8





#74

2-Chlorotoluene

Concen: 0.206 ug/l

RT: 11.01 min Scan# 3007

Delta R.T. 0.00 min

Lab File: VU037137.D

Acq: 09 Mar 2020 17:08

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT1-2020

Tot Ion:126 Resp: 1031

Ion Ratio Lower Upper

126 100

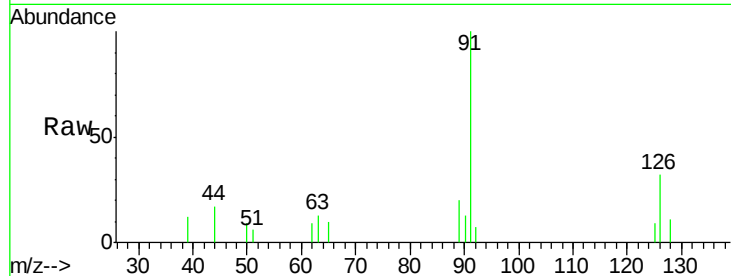
91 310.8 0.0 567.4

Manual Integrations

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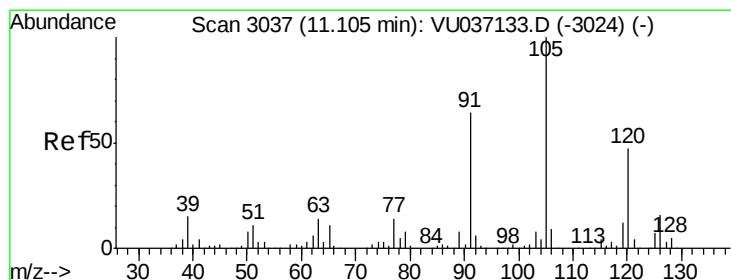
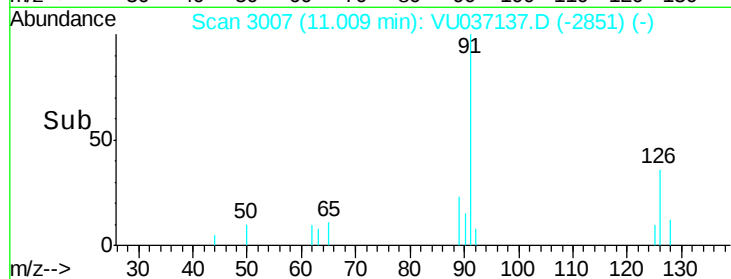
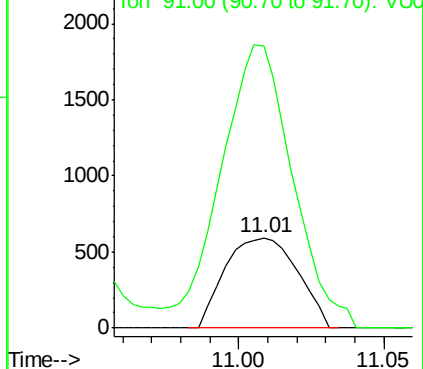
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Abundance Ion 126.00 (125.70 to 126.70): V

Ion 91.00 (90.70 to 91.70): VU0



#75

1,3,5-Trimethylbenzene

Concen: 0.203 ug/l

RT: 11.11 min Scan# 3038

Delta R.T. 0.00 min

Lab File: VU037137.D

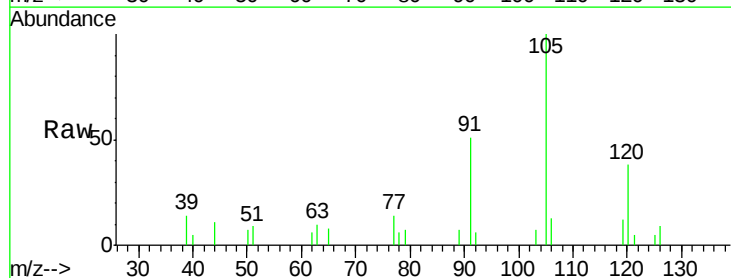
Acq: 09 Mar 2020 17:08

Tgt Ion:105 Resp: 3667

Ion Ratio Lower Upper

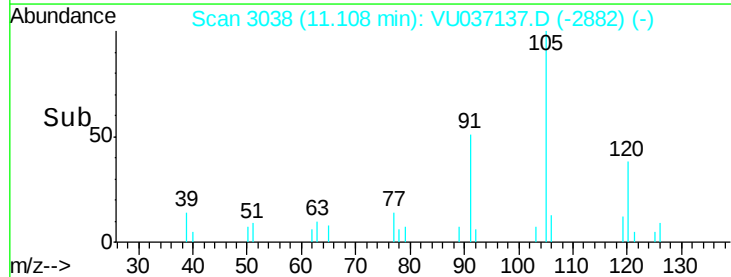
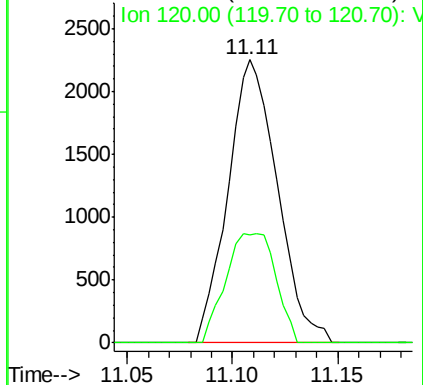
105 100

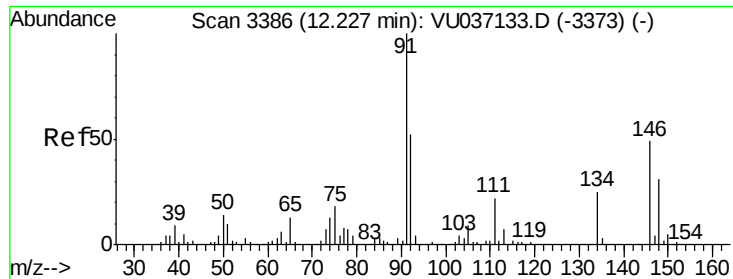
120 38.9 39.8 59.8#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





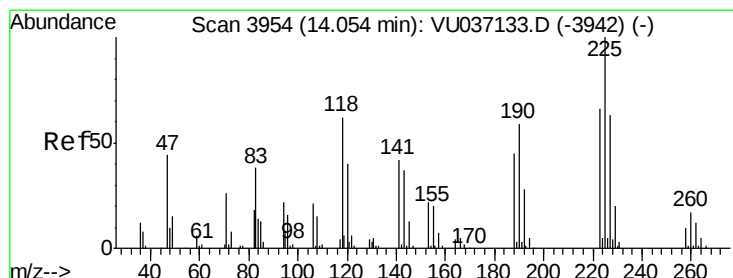
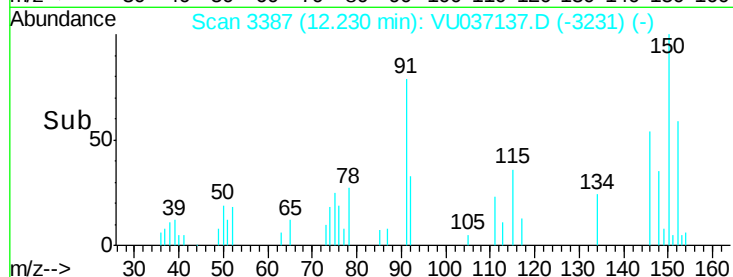
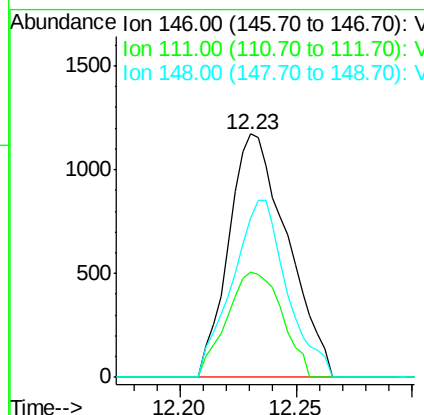
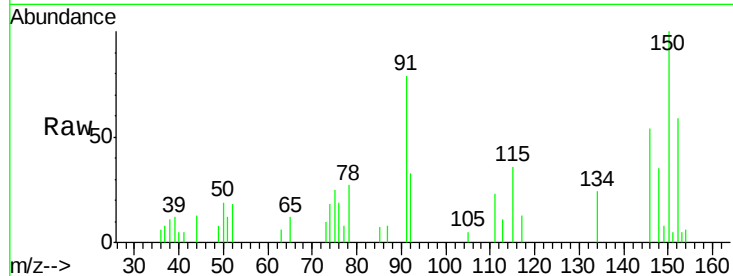
#85
 1,2-Dichlorobenzene
 Concen: 0.212 ug/l
 RT: 12.23 min Scan# 3387
 Delta R.T. 0.00 min
 Lab File: VU037137.D
 Acq: 09 Mar 2020 17:08

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.6	20.8	62.4
148	67.7	32.0	96.2

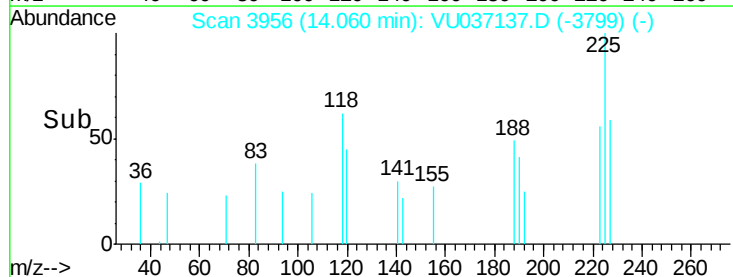
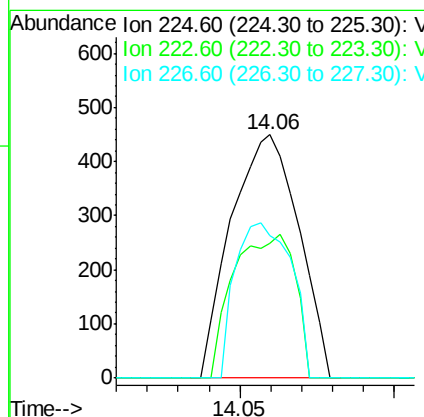
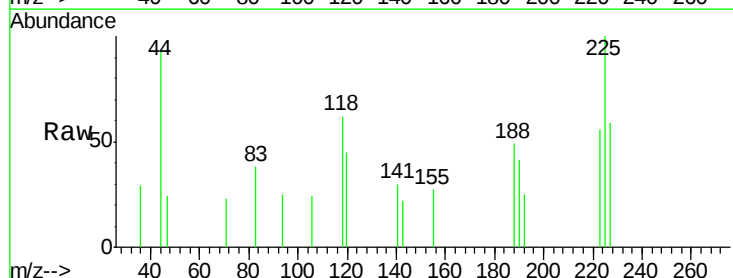
Manual Integrations
 APPROVED

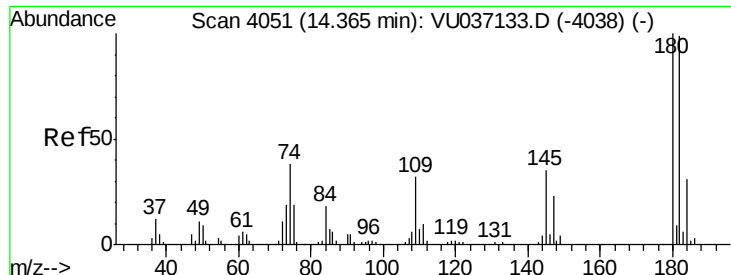
sam
 3/10/2020 3:07:14 PM



#88
 Hexachlorobutadiene
 Concen: 0.226 ug/l
 RT: 14.06 min Scan# 3956
 Delta R.T. 0.01 min
 Lab File: VU037137.D
 Acq: 09 Mar 2020 17:08

Tgt Ion	Ratio	Lower	Upper
225	100		
223	53.7	51.7	77.5
227	52.7	50.6	75.8





#90
 1,2,3-Trichlorobenzene
 Concen: 0.203 ug/l
 RT: 14.37 min Scan# 4052
 Delta R.T. 0.00 min
 Lab File: VU037137.D
 Acq: 09 Mar 2020 17:08

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT1-2020

Tot Ion	Ratio	Lower	Upper
180	100		
182	89.2	76.2	114.4
145	31.0	25.2	37.8

Manual Integrations
 APPROVED

sam
 3/10/2020 3:07:14 PM

