

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU031020\
 Data File : VU037147.D
 Acq On : 10 Mar 2020 12:10
 Operator : JC/MD
 Sample : L1161-08
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT1-2020

Manual Integrations
 APPROVED

Quant Time: Mar 10 13:09:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U030920DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Mon Mar 09 15:46:40 2020
 Response via : Initial Calibration

3/11/2020 3:32:21 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.15	96	14380	1.00	ug/l	0.00

System Monitoring Compounds

57) 4-Bromofluorobenzene	10.65	95	5104	0.92	ug/l	0.00
Spiked Amount	1.000		Recovery	=	92.00%	
68) 1,2-Dichlorobenzene-d4	12.21	152	5328	0.94	ug/l	0.00
Spiked Amount	1.000		Recovery	=	94.00%	

Target Compounds

	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.39	85	3669	0.523	ug/l	97
3) Chloromethane	1.54	50	4055	0.581	ug/l	98
4) Vinyl Chloride	1.62	62	3198	0.521	ug/l	98
5) Bromomethane	1.87	94	1285	0.601	ug/l	88
6) Chloroethane	1.95	64	1630	0.555	ug/l	98
7) Trichlorofluoromethane	2.16	101	4006	0.537	ug/l	98
8) 1,1,2-Trichloro-1,2,2-trif	2.60	101	1976	0.565	ug/l	96
9) 1,1-Dichloroethene	2.61	96	1700	0.511	ug/l	91
10) Iodomethane	2.74	142	315	0.492	ug/l	92
11) Allyl Chloride	2.95	41	3581	0.555	ug/l #	62
12) Acrylonitrile	3.37	53	883	1.123	ug/l #	66
13) Acetone	2.68	43	2744	3.139	ug/l #	74
14) Carbon Disulfide	2.82	76	6032	0.545	ug/l #	94
15) Methylene Chloride	3.08	84	2099	0.503	ug/l	87
16) trans-1,2-Dichloroethene	3.38	96	1912	0.541	ug/l	96
17) 1,1-Dichloroethane	3.91	63	4568	0.558	ug/l #	94
18) 2-Butanone	4.78	43	3540	2.649	ug/l	75
19) Cyclohexane	5.42	56	3394m	0.487	ug/l	
20) Methylcyclohexane	6.79	83	2983	0.433	ug/l #	87
21) 2,2-Dichloropropane	4.70	77	3991	0.534	ug/l #	67
22) cis-1,2-Dichloroethene	4.71	96	2426	0.555	ug/l	89
23) Diethyl Ether	2.40	59	1416	0.503	ug/l #	86
24) tert-Butyl Alcohol	3.28	59	1816	5.896	ug/l #	72
25) Methyl tert-Butyl Ether	3.42	73	5345	0.549	ug/l	95
26) Bromochloromethane	5.01	128	1014	0.527	ug/l	82
27) Chloroform	5.13	83	4780	0.542	ug/l	94
28) 1,1,1-Trichloroethane	5.36	97	3978	0.529	ug/l	93
29) 1,1-Dichloropropene	5.56	75	2909	0.476	ug/l	95
30) Carbon Tetrachloride	5.56	117	3125	0.475	ug/l	99
31) Isopropyl Ether	4.05	45	6169	0.472	ug/l	78
32) Ethyl-t-butyl ether	4.55	59	6064	0.491	ug/l	95
33) Tert-Amyl methyl ether	5.99	73	5262	0.497	ug/l	93
34) Propionitrile	4.86	54	928	2.640	ug/l #	62
35) Benzene	5.81	78	9130	0.526	ug/l	91
36) 1,2-Dichloroethane	5.83	62	3229	0.513	ug/l #	87
37) Trichloroethene	6.57	130	2414	0.530	ug/l	85
38) 1,2-Dichloropropane	6.83	63	2384	0.501	ug/l	96
39) Methacrylonitrile	5.03	41	798	0.471	ug/l #	62
40) Methyl acrylate	4.90	55	1130m	0.482	ug/l	
41) Tetrahydrofuran	5.12	42	862	1.019	ug/l #	55
42) 1-Chlorobutane	5.50	56	4400	0.500	ug/l	79

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Manual Integrations
 APPROVED

sam

Quant Time: Mar 10 13:09:08 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U030920DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Mon Mar 09 15:46:40 2020
 Response via : Initial Calibration

3/11/2020 3:32:21 PM

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) Dibromomethane	6.95	93	1280	0.524	ug/l #	86
44) Bromodichloromethane	7.14	83	3142	0.494	ug/l	99
45) 4-Methyl-2-Pentanone	7.83	43	8381	2.560	ug/l #	80
46) t-1,4-Dichloro-2-butene	10.86	75	958m	1.069	ug/l	
47) Methyl methacrylate	7.00	69	1787	0.886	ug/l #	62
48) Ethyl methacrylate	8.37	69	1603	0.402	ug/l	67
49) Toluene	8.00	92	4836	0.462	ug/l	97
50) t-1,3-Dichloropropene	8.24	75	2585	0.452	ug/l	97
51) cis-1,3-Dichloropropene	7.63	75	2891	0.442	ug/l #	83
52) 1,1,2-Trichloroethane	8.43	97	1882	0.578	ug/l #	83
53) 1,3-Dichloropropane	8.60	76	2957	0.512	ug/l	97
54) 2-Hexanone	8.72	43	4903	2.174	ug/l	80
55) Dibromochloromethane	8.83	129	1997	0.495	ug/l	98
56) 1,2-Dibromoethane	8.95	107	1467	0.476	ug/l	100
58) Tetrachloroethene	8.58	164	2273	0.532	ug/l	89
59) Chlorobenzene	9.47	112	6079	0.520	ug/l	97
60) 1,1,1,2-Tetrachloroethane	9.56	131	2230	0.521	ug/l	95
61) Pentachloroethane	11.44	117	1807	0.553	ug/l	82
62) Hexachloroethane	12.49	117	1574	0.450	ug/l	85
63) Ethyl Benzene	9.59	91	8758	0.439	ug/l	93
64) m/p-Xylenes	9.72	106	6572	0.870	ug/l	98
65) o-Xylene	10.12	106	3006	0.412	ug/l	81
66) Styrene	10.14	104	4475	0.375	ug/l #	91
67) Bromoform	10.31	173	900	0.423	ug/l #	91
69) Isopropylbenzene	10.50	105	8154	0.410	ug/l	96
70) 1,1,2,2-Tetrachloroethane	10.80	83	2060	0.481	ug/l #	99
71) 1,2,3-Trichloropropane	10.84	75	1444m	0.412	ug/l	
72) Bromobenzene	10.80	156	2104	0.438	ug/l	82
73) n-propylbenzene	10.92	120	2032	0.386	ug/l #	63
74) 2-Chlorotoluene	11.01	126	1723	0.361	ug/l	48
75) 1,3,5-Trimethylbenzene	11.11	105	7230	0.420	ug/l	99
76) 4-Chlorotoluene	11.12	126	1974	0.411	ug/l	82
77) tert-Butylbenzene	11.44	119	7038	0.420	ug/l	94
78) 1,2,4-Trimethylbenzene	11.48	105	6768	0.390	ug/l	93
79) sec-Butylbenzene	11.66	105	9454	0.414	ug/l	95
81) p-Isopropyltoluene	11.81	119	6967	0.387	ug/l #	92
82) 1,3-Dichlorobenzene	11.77	146	4738	0.497	ug/l	97
83) 1,4-Dichlorobenzene	11.86	146	4268	0.442	ug/l	98
84) n-Butylbenzene	12.23	91	6469	0.380	ug/l #	90
85) 1,2-Dichlorobenzene	12.23	146	4283	0.465	ug/l	92
86) 1,2-Dibromo-3-Chloropropan	13.02	75	257	0.340	ug/l #	58
87) 1,2,4-Trichlorobenzene	13.88	180	1785	0.385	ug/l	85
88) Hexachlorobutadiene	14.05	225	1357	0.473	ug/l	91
89) Naphthalene	14.13	128	2272	0.534	ug/l #	91
90) 1,2,3-Trichlorobenzene	14.37	180	1645	0.365	ug/l	97

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

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Misc : 25.0mL/MSVOA U/WATER
ALS Vial : 7 Sample Multiplier: 1

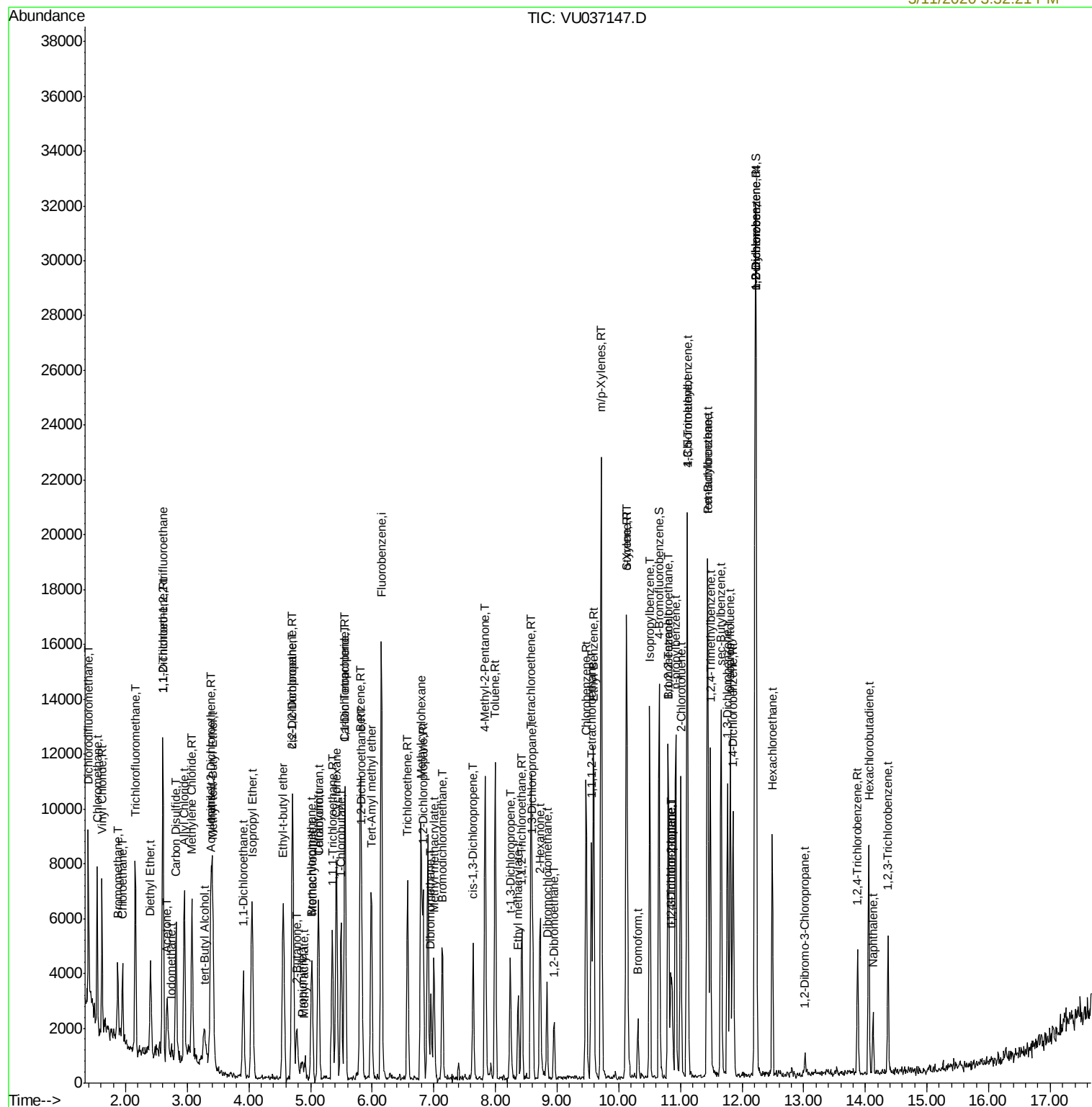
Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2020

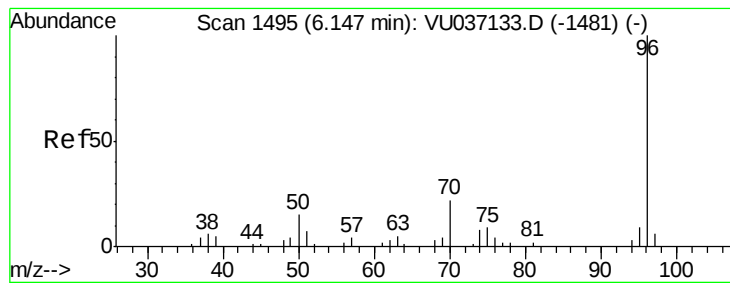
Manual Integrations
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Quant Time: Mar 10 13:09:08 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA U\METHOD\524U030920DW.M
Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 6.15 min Scan# 1496

Delta R.T. 0.00 min

Lab File: VU037147.D

Acq: 10 Mar 2020 12:10

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2020

Tot Ion: 96 Resp: 14380

Ion Ratio Lower Upper

96 100

70 19.2 15.6 23.4

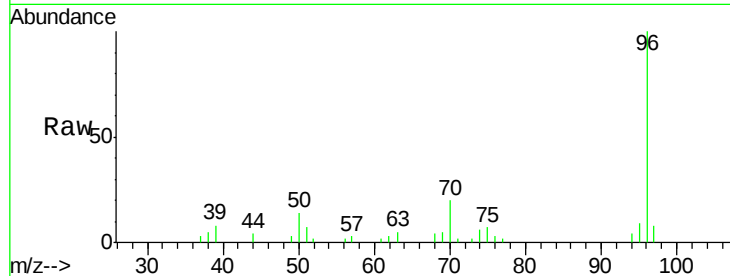
95 9.1 7.0 10.6

97 5.9 0.0 0.0#

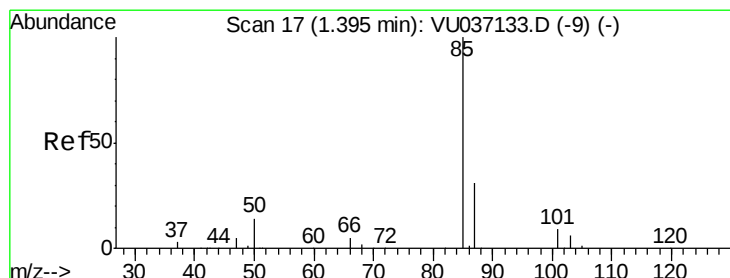
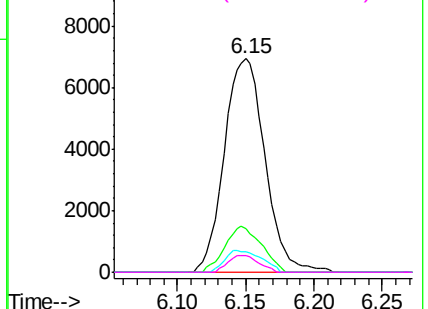
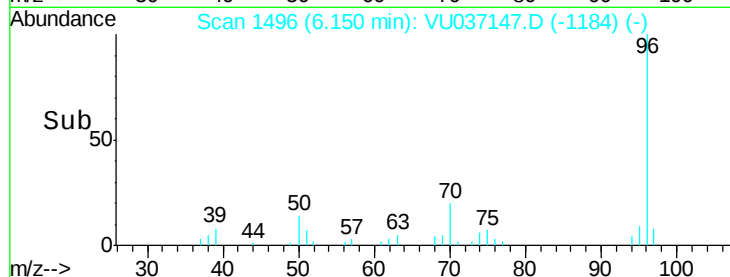
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Abundance Ion 96.00 (95.70 to 96.70): VU037147.D (-1184) (-)



#2

Dichlorodifluoromethane

Concen: 0.523 ug/l

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU037147.D

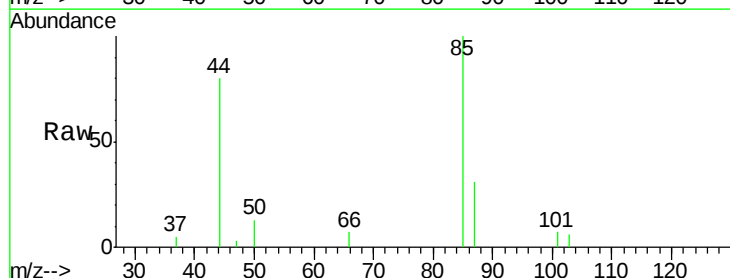
Acq: 10 Mar 2020 12:10

Tgt Ion: 85 Resp: 3669

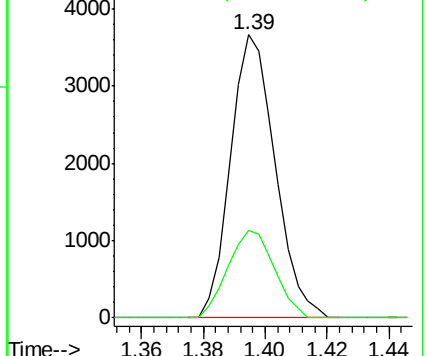
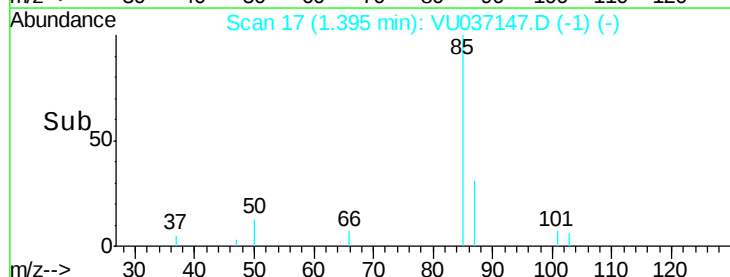
Ion Ratio Lower Upper

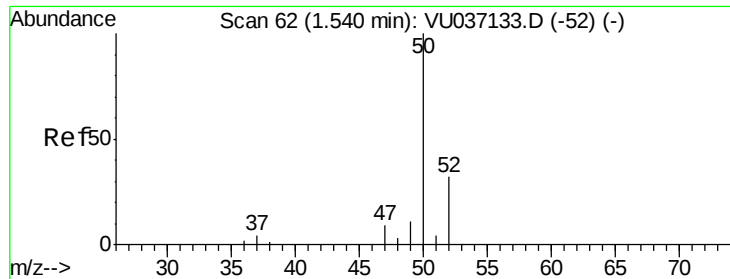
85 100

87 31.1 16.4 49.2



Abundance Ion 85.00 (84.70 to 85.70): VU037147.D (-1) (-)





#3

Chloromethane

Concen: 0.581 ug/l

RT: 1.54 min Scan# 62

Delta R.T. -0.00 min

Lab File: VU037147.D

Acq: 10 Mar 2020 12:10

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2020

Tot Ion: 50 Resp: 4055

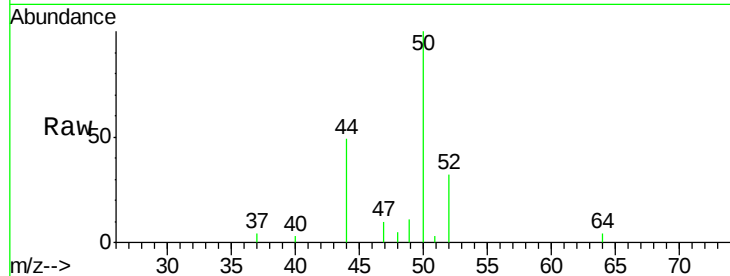
Ion Ratio Lower Upper

50 100

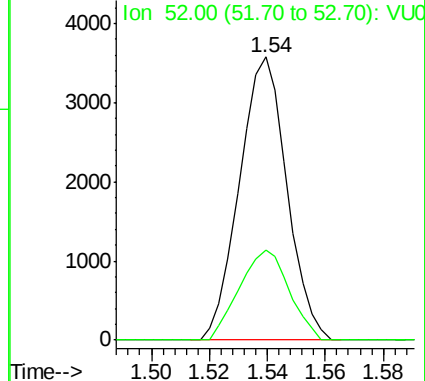
52 31.6 26.0 39.0

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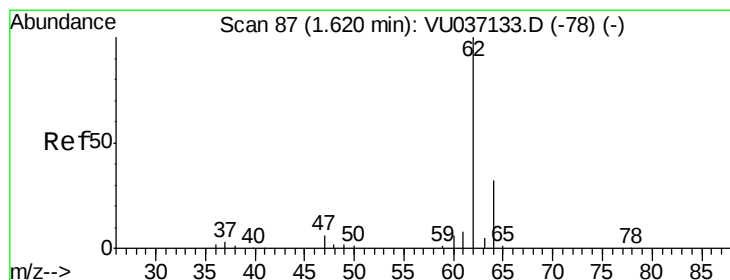
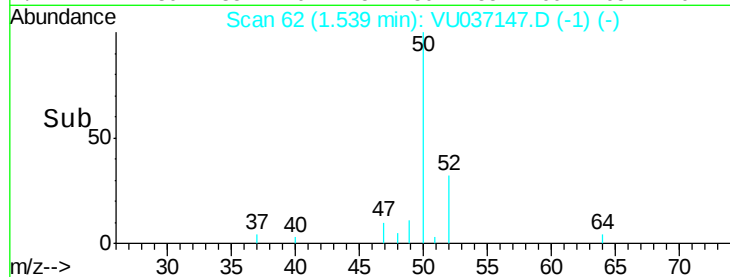
sam



Abundance Ion 50.00 (49.70 to 50.70): VU037147.D (-1) (-)



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#4

Vinyl Chloride

Concen: 0.521 ug/l

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU037147.D

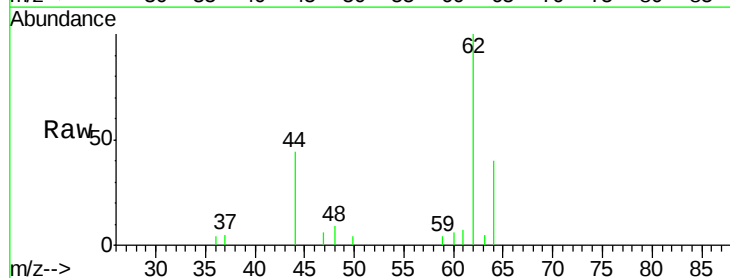
Acq: 10 Mar 2020 12:10

Tgt Ion: 62 Resp: 3198

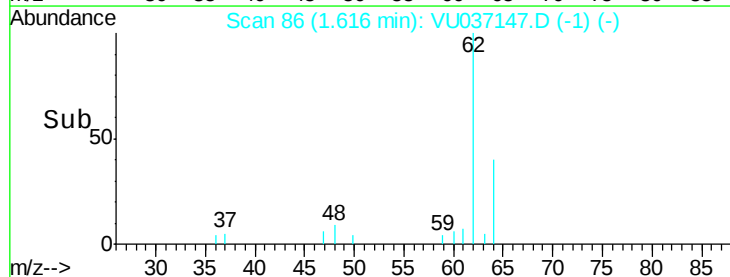
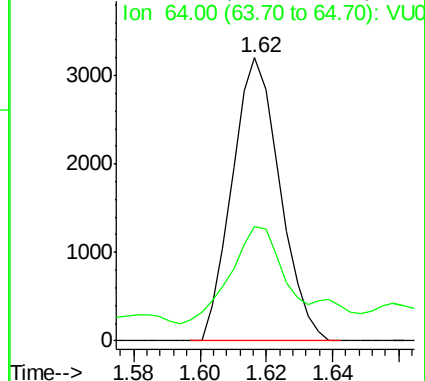
Ion Ratio Lower Upper

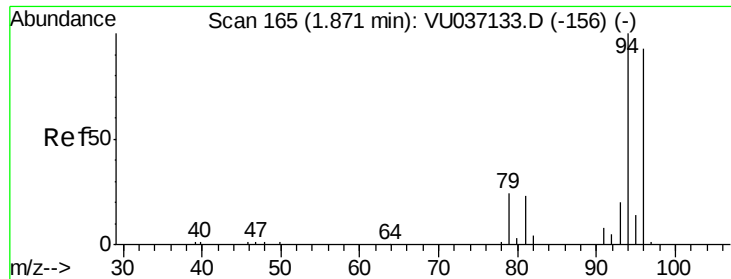
62 100

64 33.0 25.4 38.2



Abundance Ion 62.00 (61.70 to 62.70): VU037147.D (-1) (-)





#5

Bromomethane

Concen: 0.601 ug/l

RT: 1.87 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU037147.D

Acq: 10 Mar 2020 12:10

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2020

Tot Ion: 94 Resp: 1285

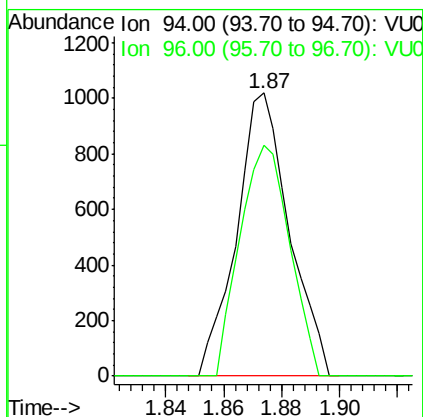
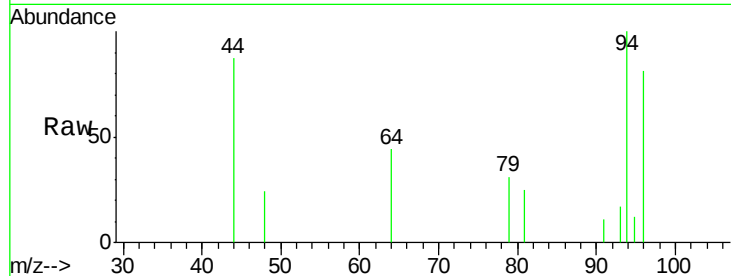
Ion Ratio Lower Upper

94 100

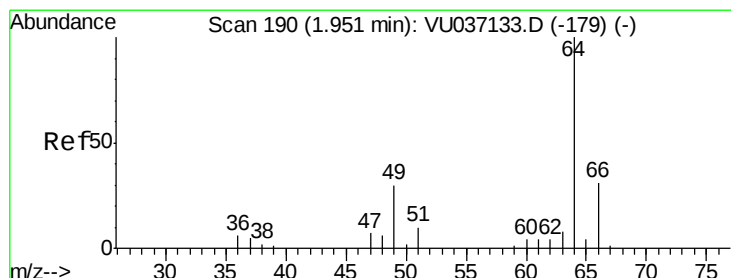
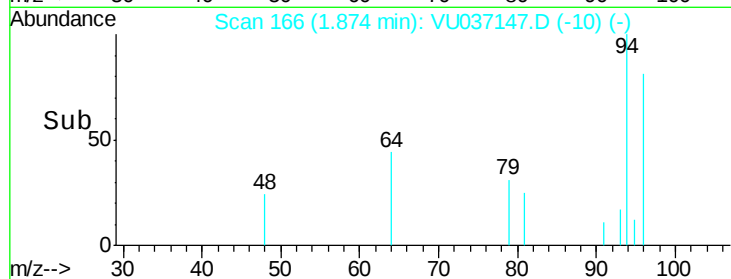
96 81.5 74.6 112.0

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#6

Chloroethane

Concen: 0.555 ug/l

RT: 1.95 min Scan# 190

Delta R.T. -0.00 min

Lab File: VU037147.D

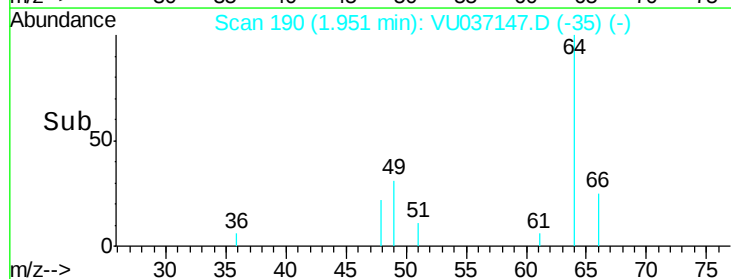
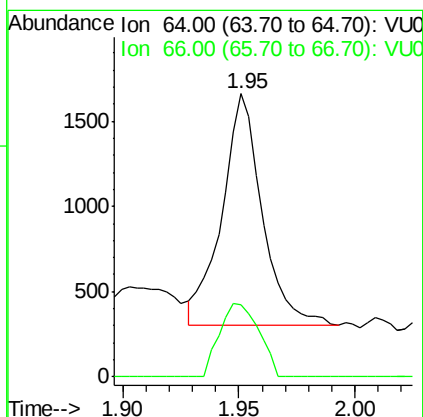
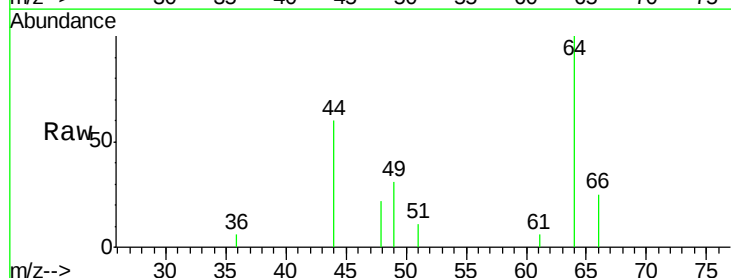
Acq: 10 Mar 2020 12:10

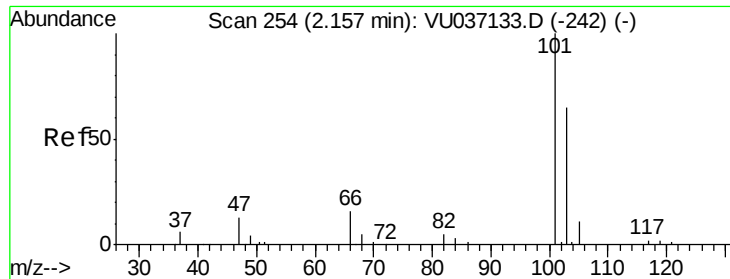
Tgt Ion: 64 Resp: 1630

Ion Ratio Lower Upper

64 100

66 31.0 25.5 38.3





#7

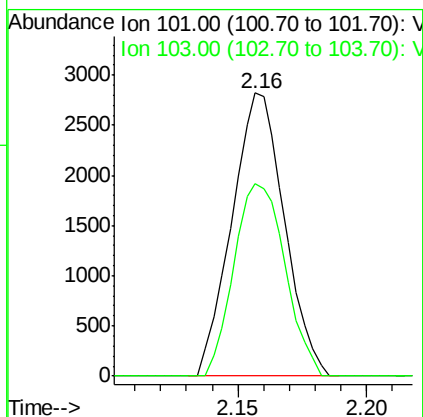
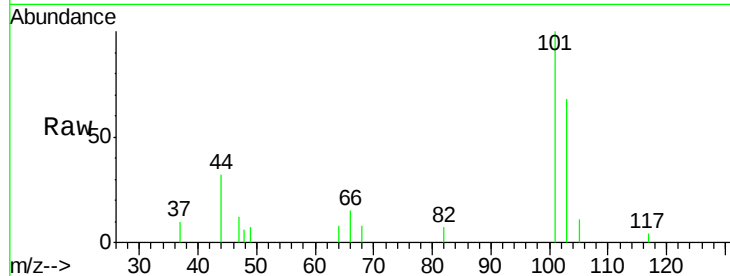
Trichlorofluoromethane
Concen: 0.537 ug/l
RT: 2.16 min Scan# 254
Delta R.T. -0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Instrument :
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ClientSampleId :
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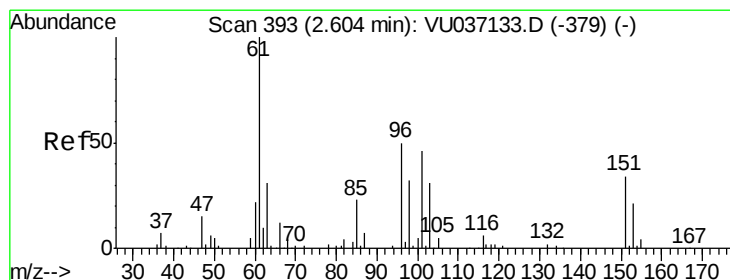
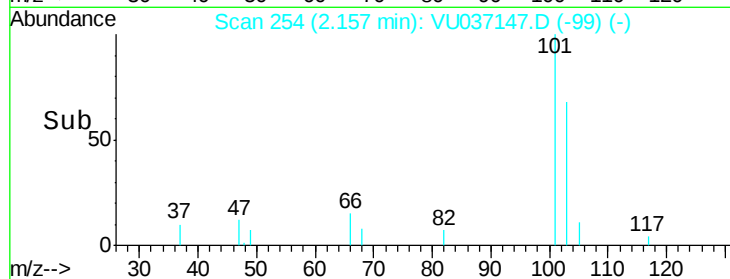
Tot Ion	Ratio	Lower	Upper
101	100		
103	68.0	53.0	79.6

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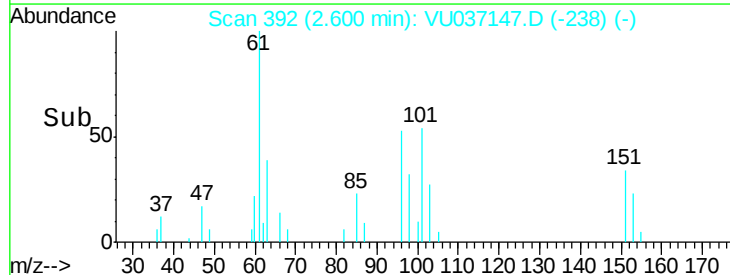
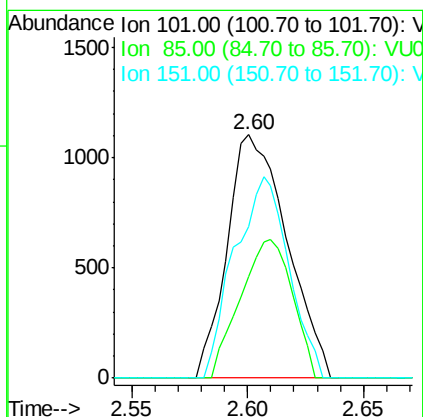
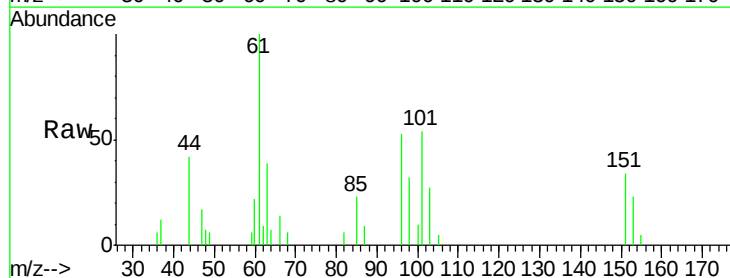
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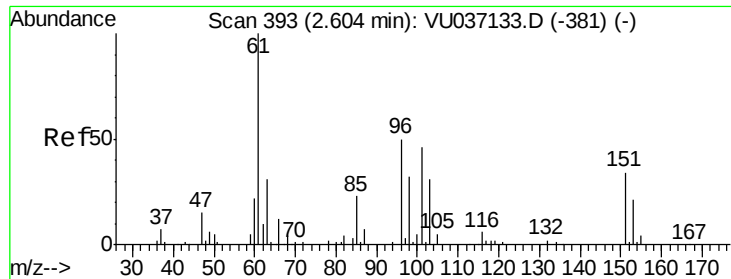


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.565 ug/l
RT: 2.60 min Scan# 392
Delta R.T. -0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Tgt Ion	Ratio	Lower	Upper
101	100		
85	49.6	33.9	50.9
151	75.0	59.8	89.8





#9

1,1-Dichloroethene

Concen: 0.511 ug/l

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU037147.D

Acq: 10 Mar 2020 12:10

Instrument :

MSVOA_U

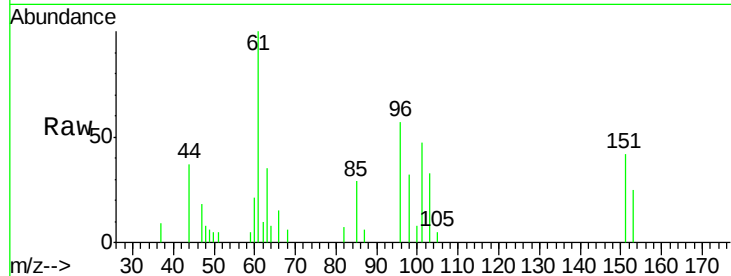
ClientSampleId :

LOQ-WATER-02-QT1-2020

Tot Ion:	96	Resp:	1700
Ion	Ratio	Lower	Upper
96	100		
61	164.7	0.0	463.2
98	56.6	0.0	130.0

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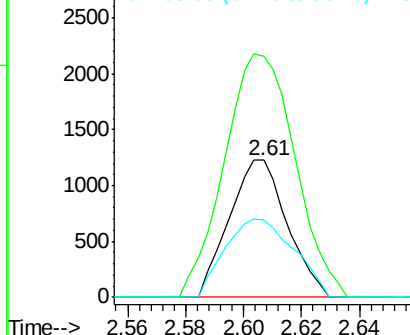


Abundance

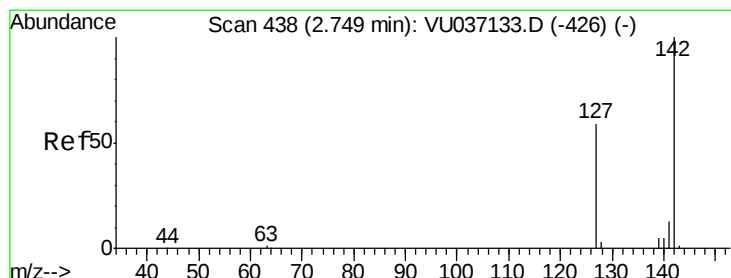
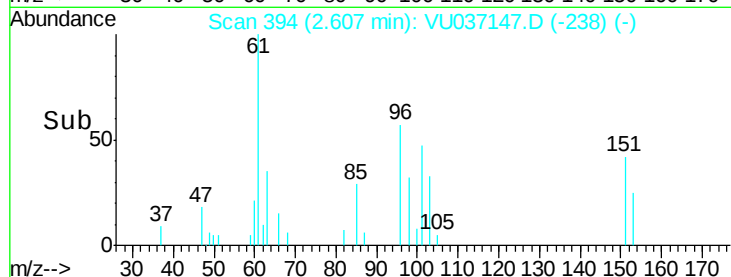
Ion 96.00 (95.70 to 96.70): VU037133.D (-381) (-)

Ion 61.00 (60.70 to 61.70): VU037133.D (-381) (-)

Ion 98.00 (97.70 to 98.70): VU037133.D (-381) (-)



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#10

Iodomethane

Concen: 0.492 ug/l

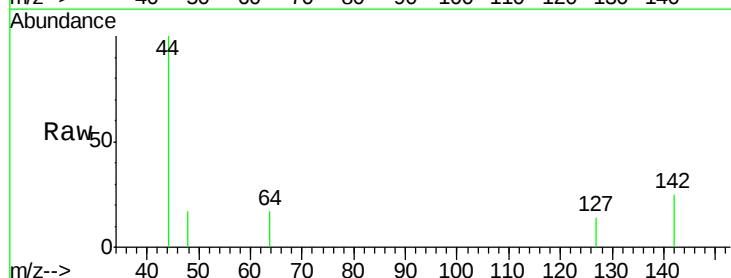
RT: 2.74 min Scan# 436

Delta R.T. -0.01 min

Lab File: VU037147.D

Acq: 10 Mar 2020 12:10

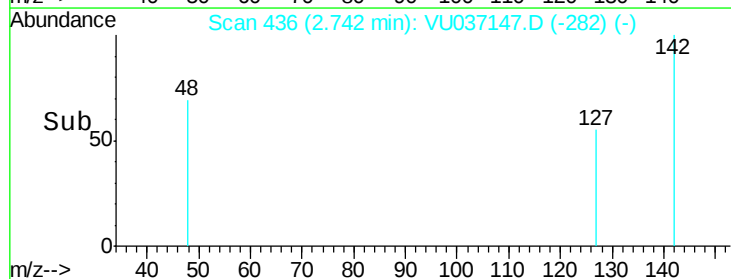
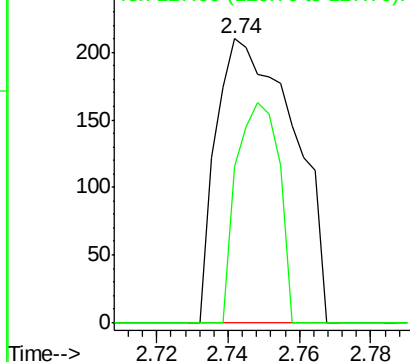
Tgt Ion:	142	Resp:	315
Ion	Ratio	Lower	Upper
142	100		
127	42.5	30.3	45.5

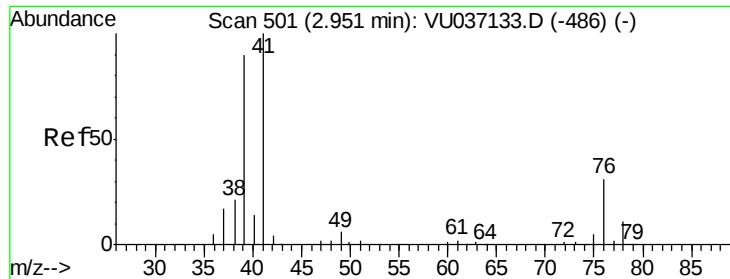


Abundance

Ion 142.00 (141.70 to 142.70): VU037133.D (-426) (-)

Ion 127.00 (126.70 to 127.70): VU037133.D (-426) (-)





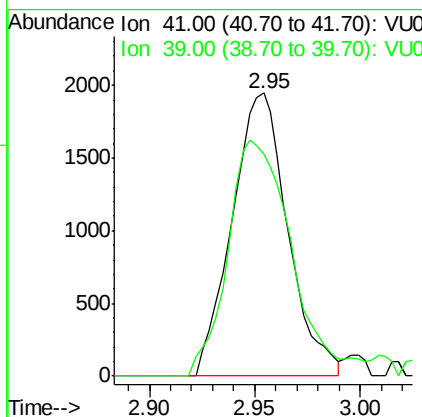
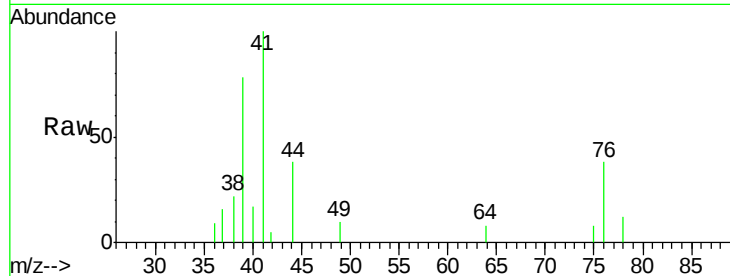
#11
Allvl Chloride
Concen: 0.555 ug/l
RT: 2.95 min Scan# 502
Delta R.T. 0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2020

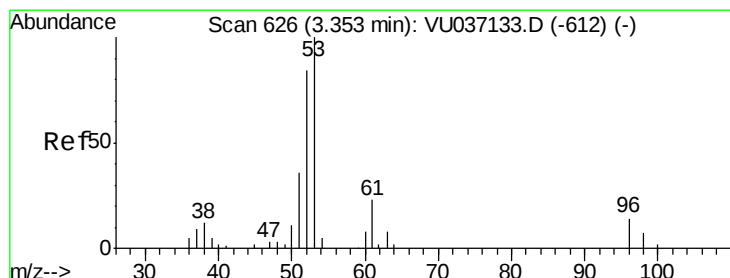
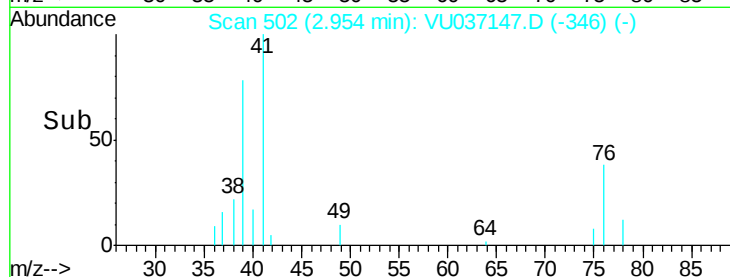
Tot Ion: 41 Resp: 3581
Ion Ratio Lower Upper
41 100
39 93.2 50.7 76.1#

Manual Integrations
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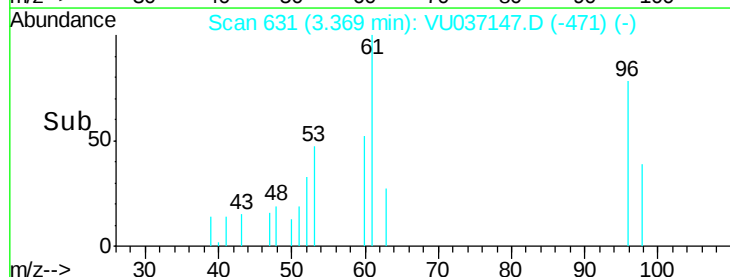
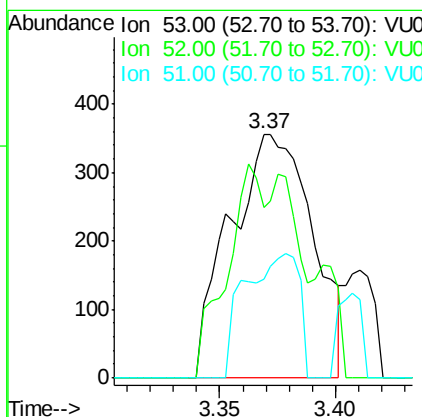
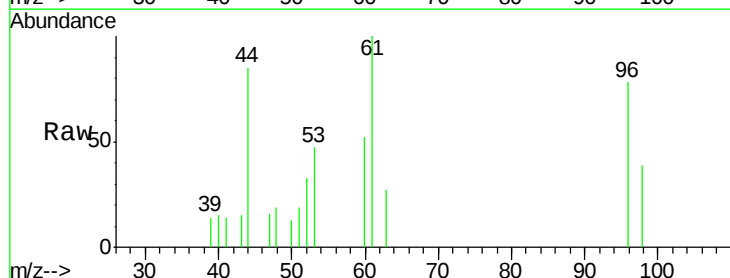


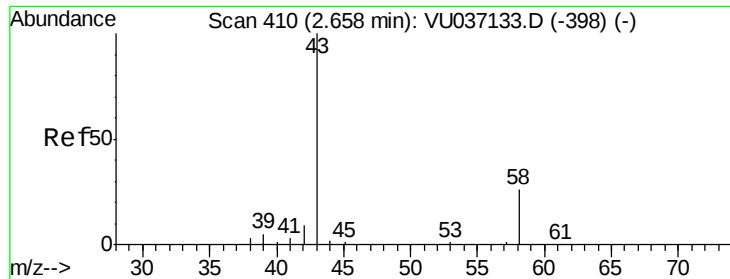
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#12
Acrylonitrile
Concen: 1.123 ug/l
RT: 3.37 min Scan# 631
Delta R.T. 0.02 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Tgt Ion: 53 Resp: 883
Ion Ratio Lower Upper
53 100
52 38.5 64.6 97.0#
51 33.4 27.2 40.8





#13

Acetone

Concen: 3.139 ug/l

RT: 2.68 min Scan# 416

Delta R.T. 0.02 min

Lab File: VU037147.D

Acq: 10 Mar 2020 12:10

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2020

Tot Ion: 43 Resp: 2744

Ion Ratio Lower Upper

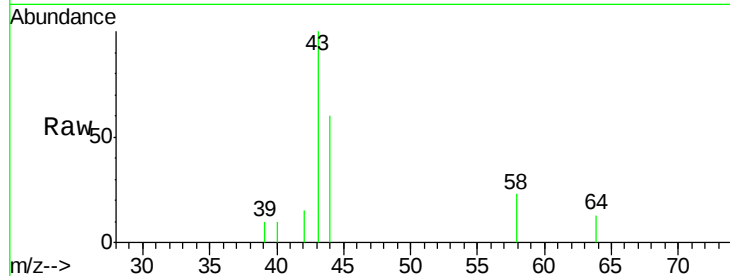
43 100

58 22.7 30.8 46.2#

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Abundance Ion 43.00 (42.70 to 43.70): VU037147.D (-255) (-)

Ion 58.00 (57.70 to 58.70): VU037147.D (-255) (-)

2.68

1500

1000

500

0

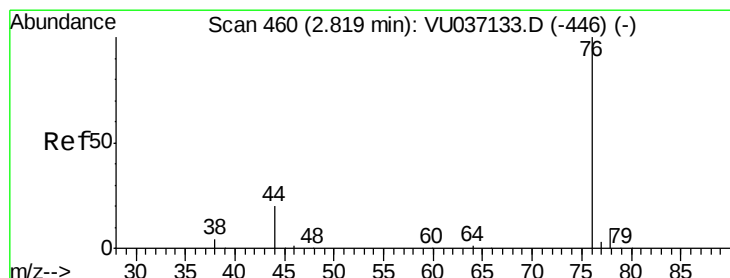
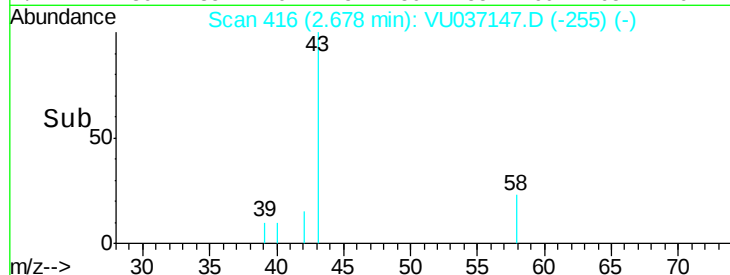
Time-->

2.60

2.65

2.70

2.75



#14

Carbon Disulfide

Concen: 0.545 ug/l

RT: 2.82 min Scan# 460

Delta R.T. -0.00 min

Lab File: VU037147.D

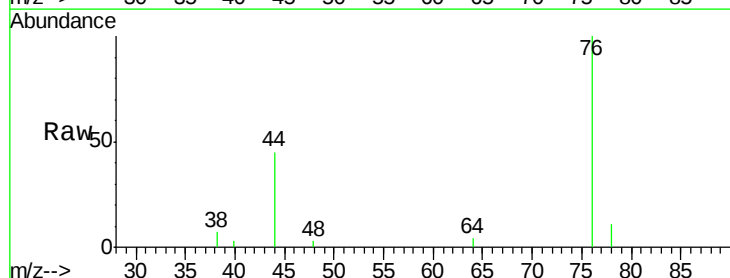
Acq: 10 Mar 2020 12:10

Tgt Ion: 76 Resp: 6032

Ion Ratio Lower Upper

76 100

78 11.2 7.4 11.0#



Abundance Ion 76.00 (75.70 to 76.70): VU037147.D (-305) (-)

Ion 78.00 (77.70 to 78.70): VU037147.D (-305) (-)

2.82

4000

3000

2000

1000

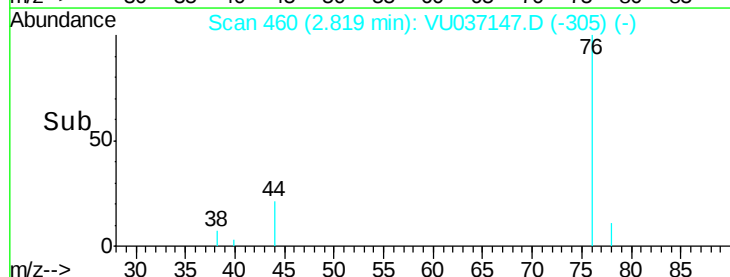
0

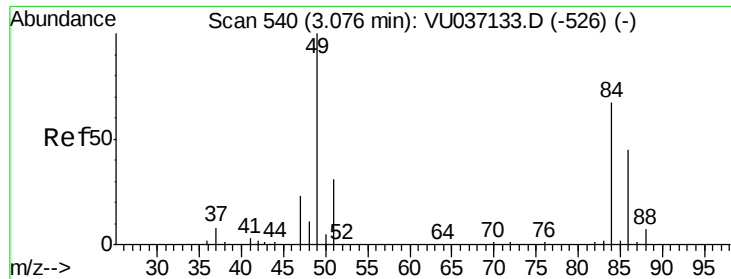
Time-->

2.75

2.80

2.85





#15
Methvlene Chloride
Concen: 0.503 ug/l
RT: 3.08 min Scan# 540
Delta R.T. -0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

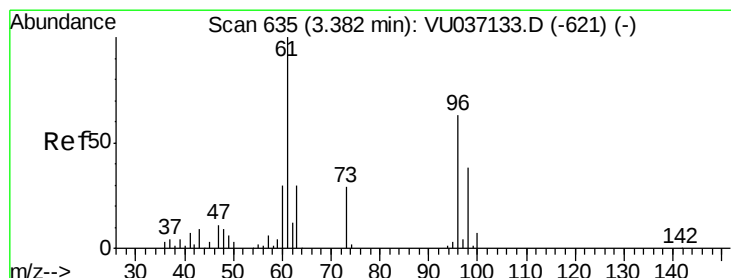
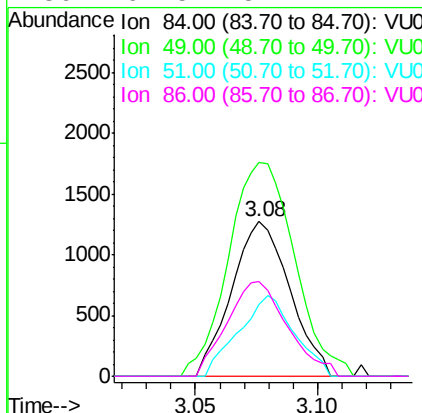
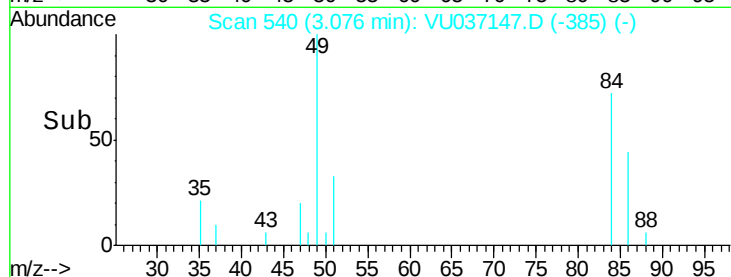
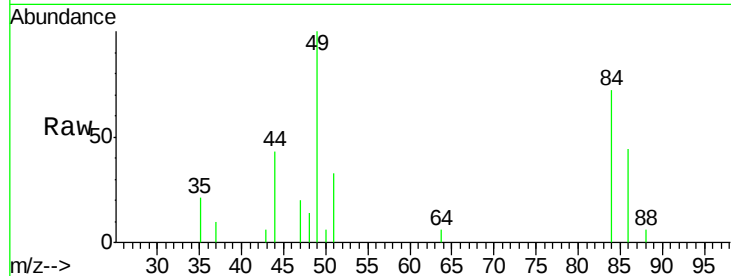
Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2020

Tot Ion	84	Resp	2099
Ion	Ratio	Lower	Upper
84	100		
49	130.2	89.7	134.5
51	46.3	0.0	71.6
86	61.5	51.4	77.2

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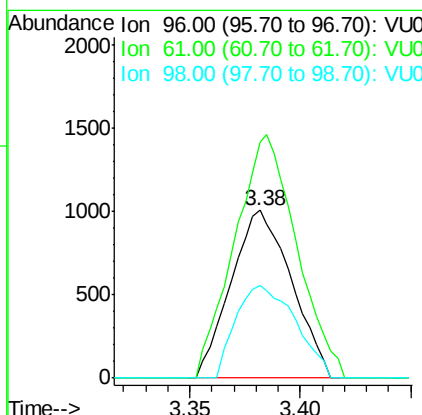
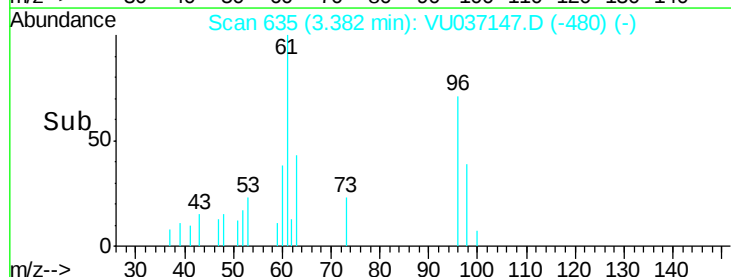
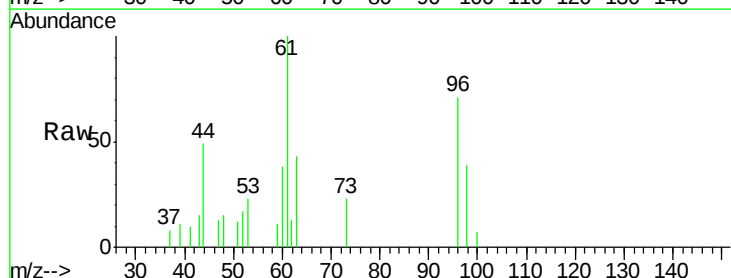
sam

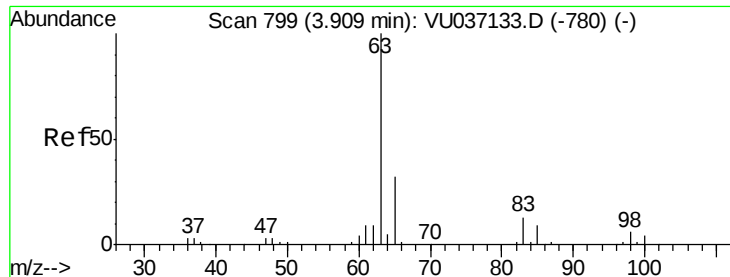
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#16
trans-1,2-Dichloroethene
Concen: 0.541 ug/l
RT: 3.38 min Scan# 635
Delta R.T. -0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Tgt Ion	96	Resp	1912
Ion	Ratio	Lower	Upper
96	100		
61	140.8	110.8	166.2
98	55.2	50.3	75.5





#17
 1,1-Dichloroethane
 Concen: 0.558 ug/l
 RT: 3.91 min Scan# 799
 Delta R.T. -0.00 min
 Lab File: VU037147.D
 Acq: 10 Mar 2020 12:10

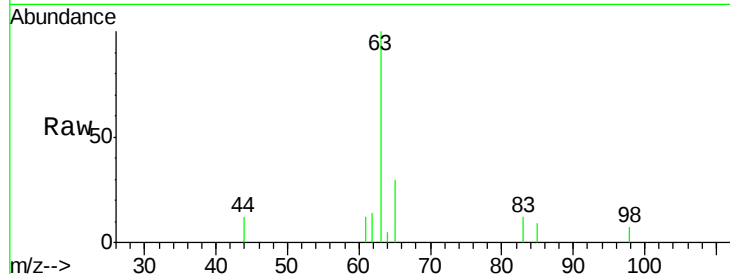
Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
63	100		
98	6.9	3.5	10.5
100	0.0	2.4	7.1#

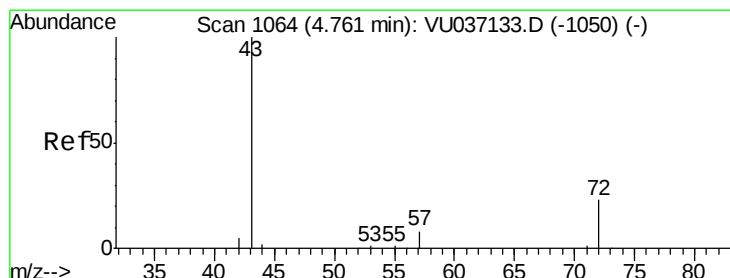
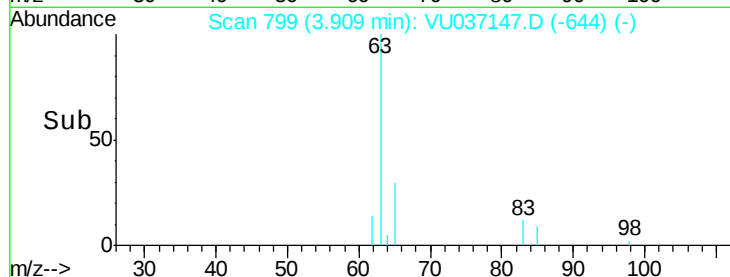
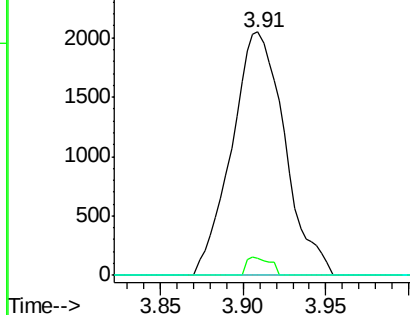
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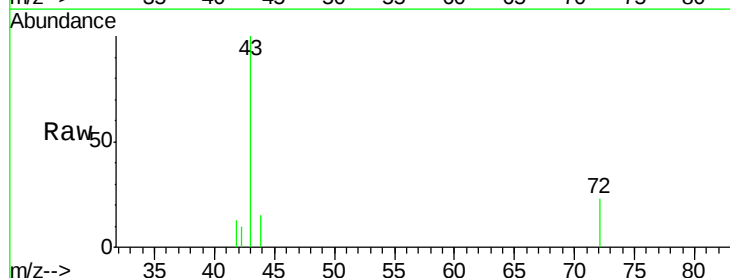


Abundance Ion 63.00 (62.70 to 63.70): VU037147.D (-644) (-)
 Ion 98.00 (97.70 to 98.70): VU037147.D (-644) (-)
 Ion 100.00 (99.70 to 100.70): VU037147.D (-644) (-)

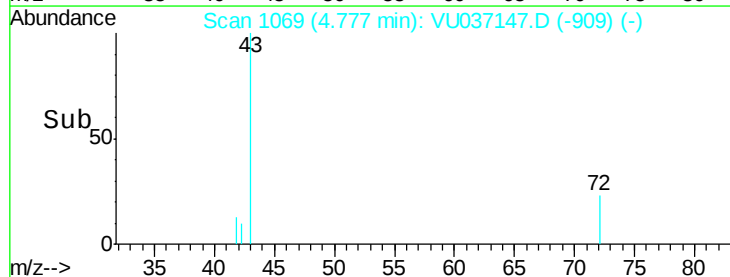
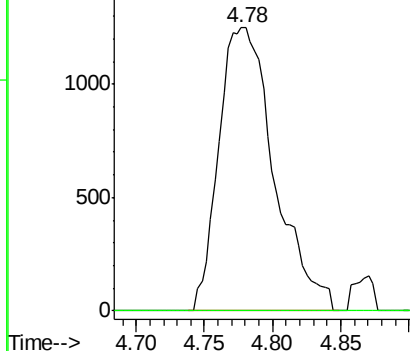


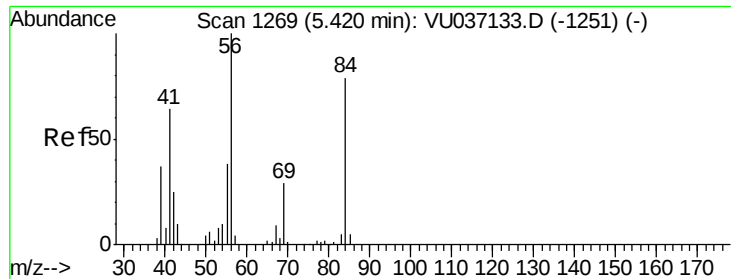
#18
 2-Butanone
 Concen: 2.649 ug/l
 RT: 4.78 min Scan# 1069
 Delta R.T. 0.02 min
 Lab File: VU037147.D
 Acq: 10 Mar 2020 12:10

Tgt Ion	Ratio	Lower	Upper
43	100		
57	0.0	0.0	17.8



Abundance Ion 43.00 (42.70 to 43.70): VU037147.D (-909) (-)
 Ion 57.00 (56.70 to 57.70): VU037147.D (-909) (-)





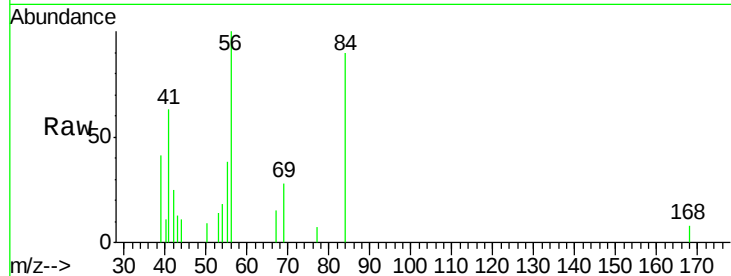
#19
Cyclohexane
Concen: 0.487 ug/l m
RT: 5.42 min Scan# 1269
Delta R.T. -0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
56	100		
69	29.3	26.2	39.2
84	88.6	72.8	109.2

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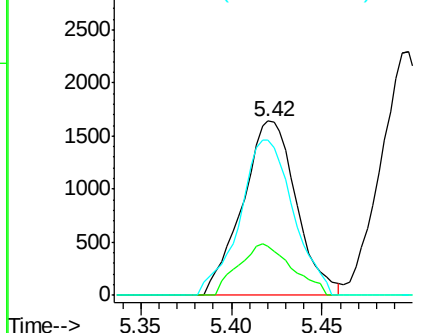


Abundance

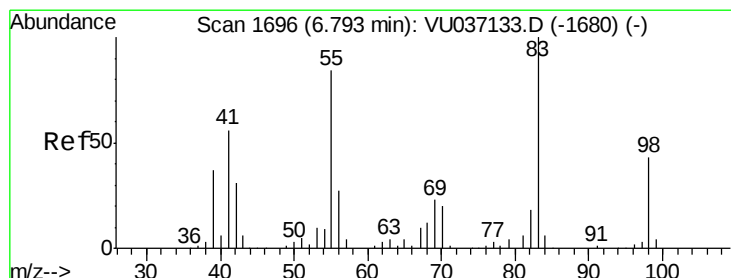
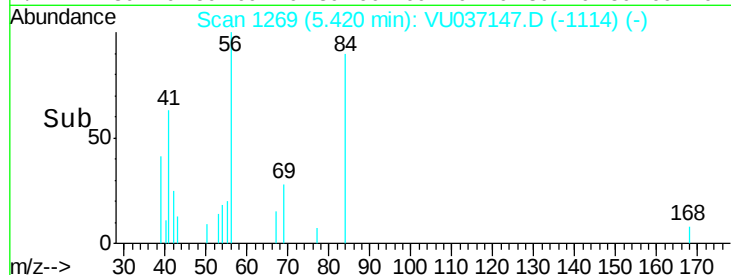
Ion 56.00 (55.70 to 56.70): VU037147.D (-1114) (-)

Ion 69.00 (68.70 to 69.70): VU037147.D (-1114) (-)

Ion 84.00 (83.70 to 84.70): VU037147.D (-1114) (-)



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#20
Methylcyclohexane
Concen: 0.433 ug/l
RT: 6.79 min Scan# 1695
Delta R.T. -0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

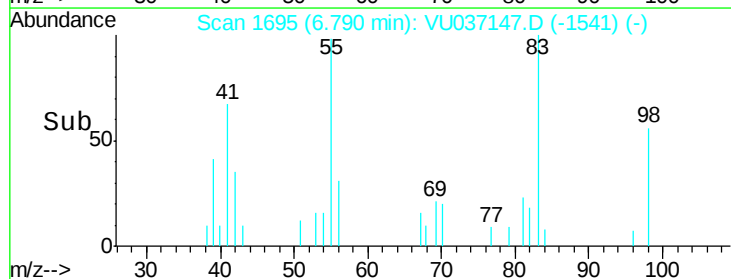
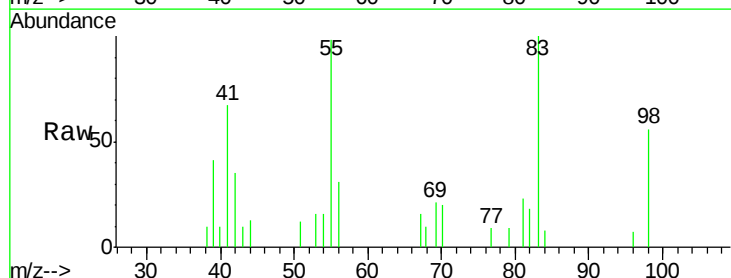
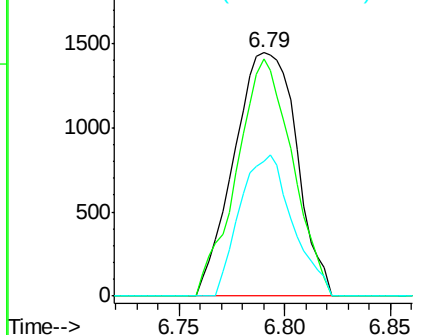
Tgt Ion	Ratio	Lower	Upper
83	100		
55	86.5	56.6	85.0#
98	48.8	37.5	56.3

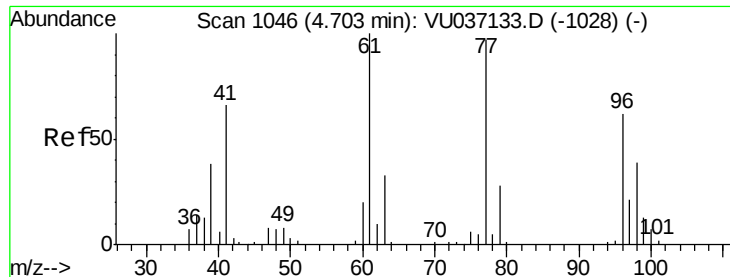
Abundance

Ion 83.00 (82.70 to 83.70): VU037147.D (-1541) (-)

Ion 55.00 (54.70 to 55.70): VU037147.D (-1541) (-)

Ion 98.00 (97.70 to 98.70): VU037147.D (-1541) (-)





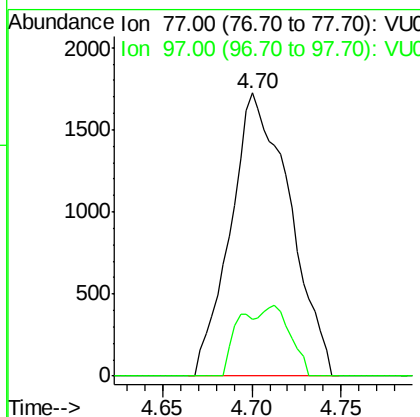
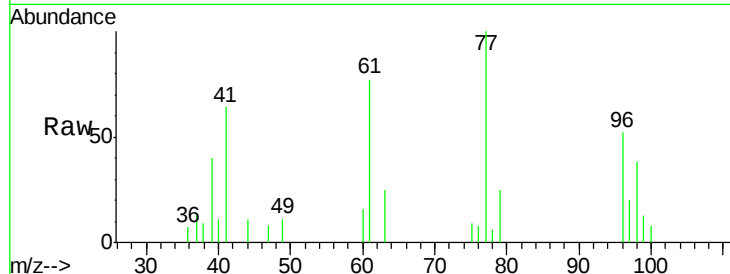
#21
 2,2-Dichloropropane
 Concen: 0.534 ug/l
 RT: 4.70 min Scan# 1045
 Delta R.T. -0.00 min
 Lab File: VU037147.D
 Acq: 10 Mar 2020 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT1-2020

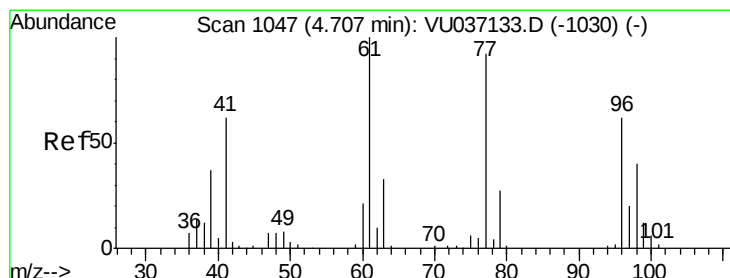
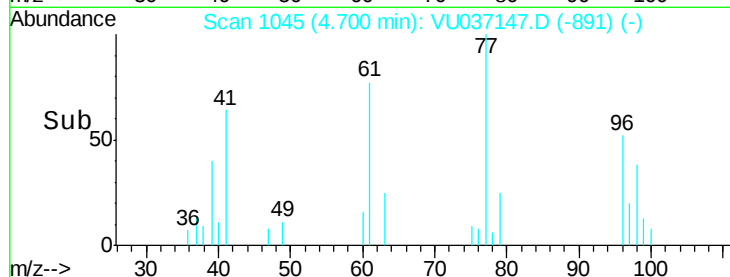
Tot Ion: 77 Resp: 3991
 Ion Ratio Lower Upper
 77 100
 97 7.7 19.0 28.4#

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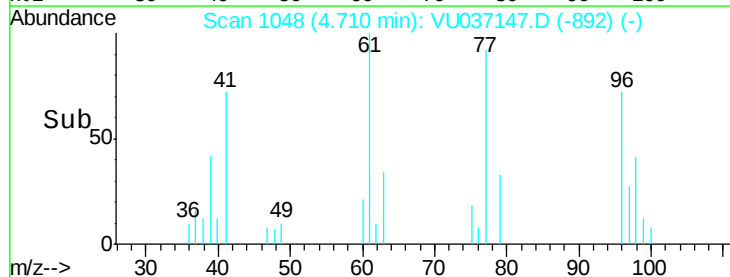
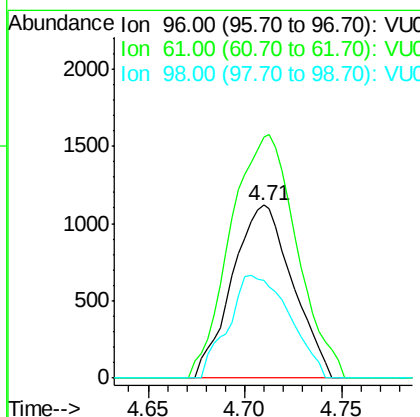
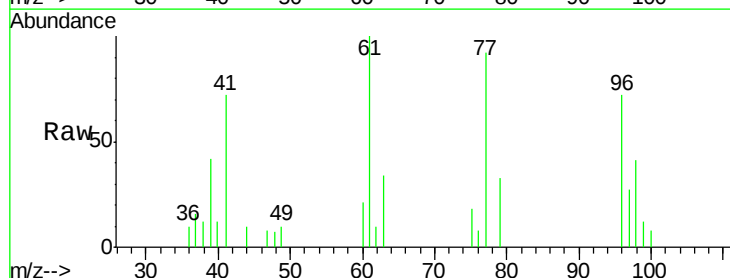


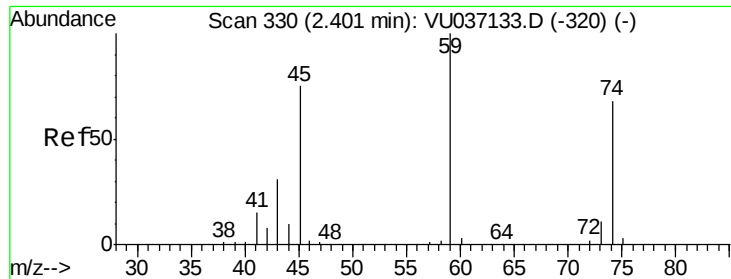
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#22
 cis-1,2-Dichloroethene
 Concen: 0.555 ug/l
 RT: 4.71 min Scan# 1048
 Delta R.T. 0.00 min
 Lab File: VU037147.D
 Acq: 10 Mar 2020 12:10

Tgt Ion: 96 Resp: 2426
 Ion Ratio Lower Upper
 96 100
 61 154.0 0.0 342.0
 98 60.2 32.0 96.0





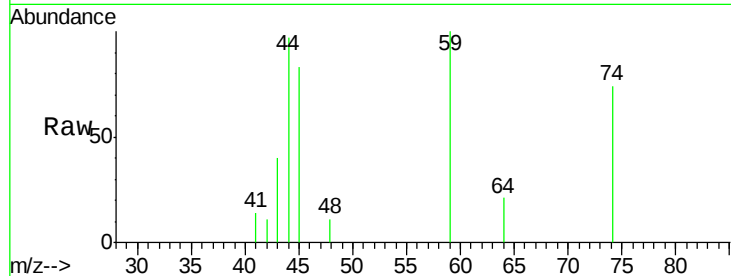
#23
Diethyl Ether
Concen: 0.503 ug/l
RT: 2.40 min Scan# 331
Delta R.T. 0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2020

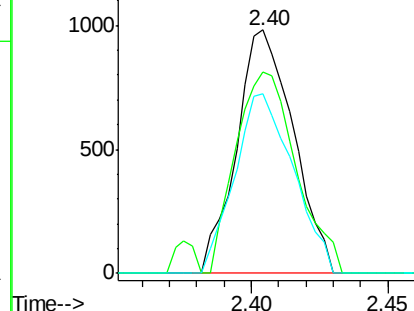
Tot Ion: 59 Resp: 1416
Ion Ratio Lower Upper
59 100
45 88.6 52.4 78.6#
74 76.5 62.1 93.1

Manual Integrations
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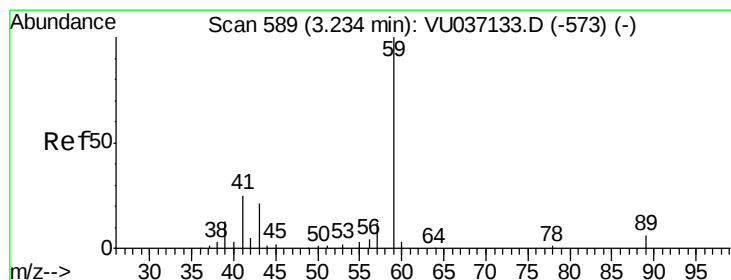
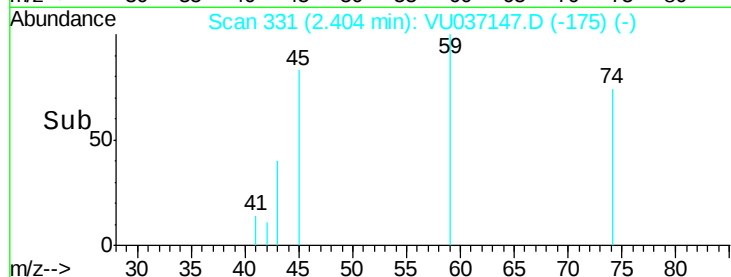
sam



Abundance Ion 59.00 (58.70 to 59.70): VU0
Ion 45.00 (44.70 to 45.70): VU0
Ion 74.00 (73.70 to 74.70): VU0

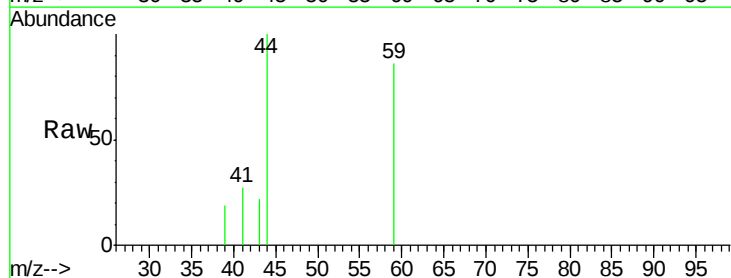


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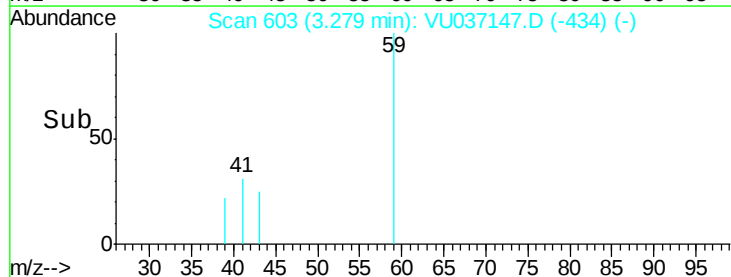
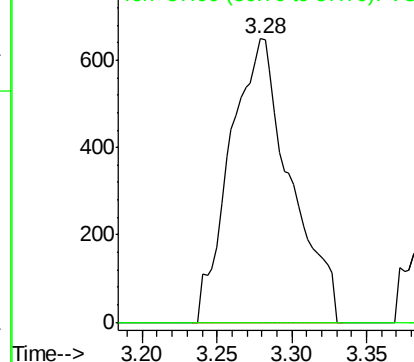


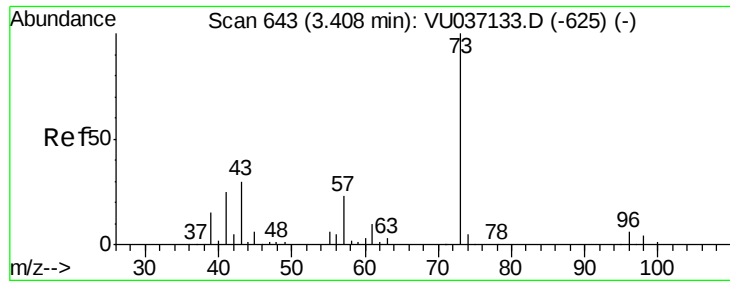
#24
tert-Butyl Alcohol
Concen: 5.896 ug/l
RT: 3.28 min Scan# 603
Delta R.T. 0.04 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Tgt Ion: 59 Resp: 1816
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#25

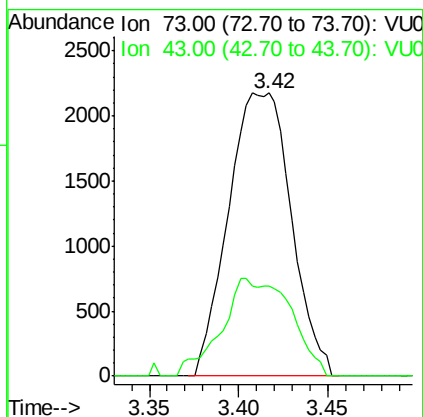
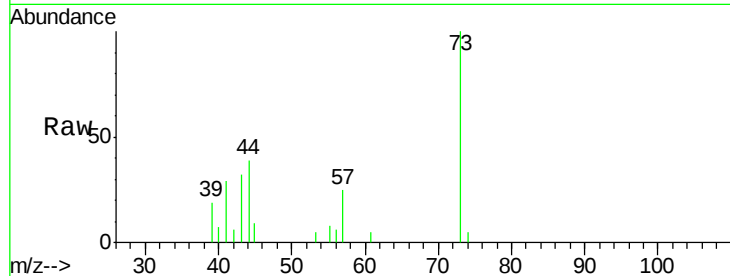
Methyl tert-Butyl Ether
 Concen: 0.549 ug/l
 RT: 3.42 min Scan# 646
 Delta R.T. 0.01 min
 Lab File: VU037147.D
 Acq: 10 Mar 2020 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT1-2020

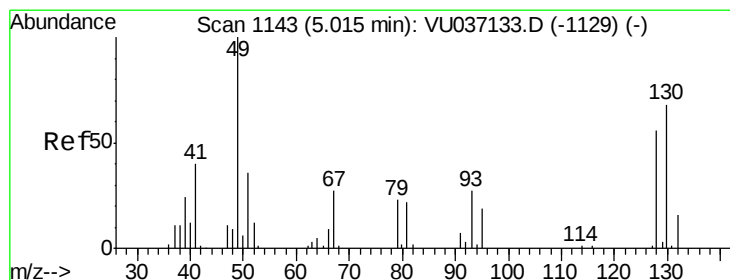
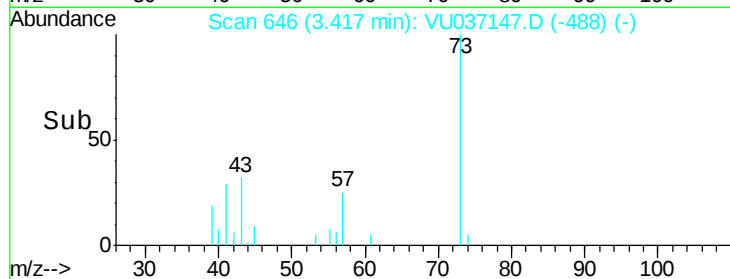
Tot Ion	Ratio	Lower	Upper
73	100		
43	20.3	14.5	21.7

Manual Integrations
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Sam



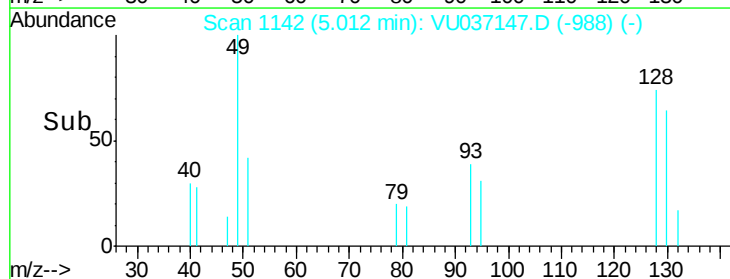
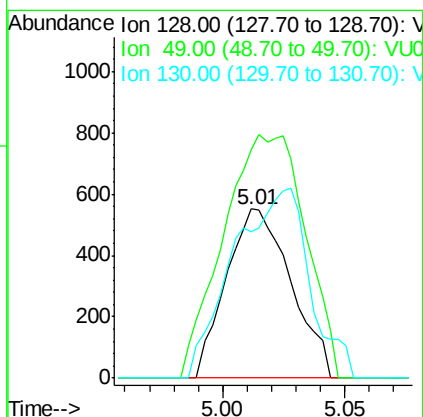
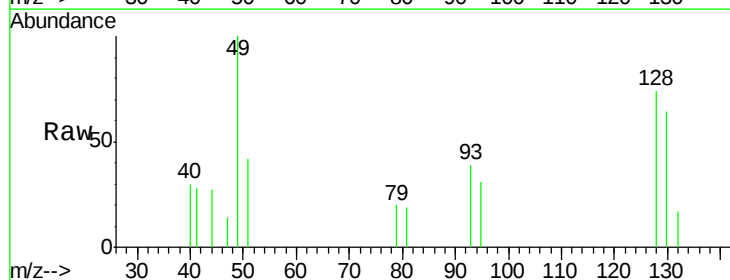
3/11/2020 3:32:21 PM

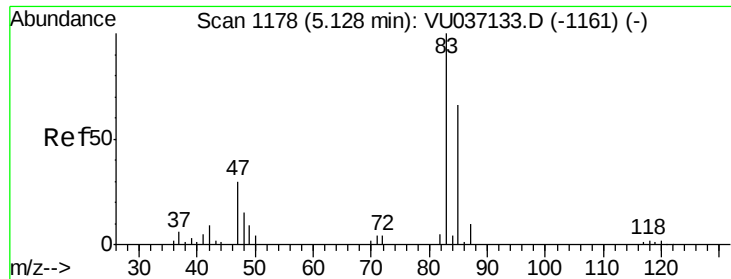


#26

Bromochloromethane
 Concen: 0.527 ug/l
 RT: 5.01 min Scan# 1142
 Delta R.T. -0.00 min
 Lab File: VU037147.D
 Acq: 10 Mar 2020 12:10

Tgt Ion	Ratio	Lower	Upper
128	100		
49	182.4	0.0	286.2
130	133.1	104.3	156.5





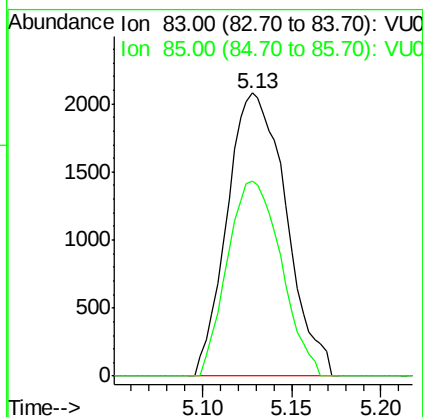
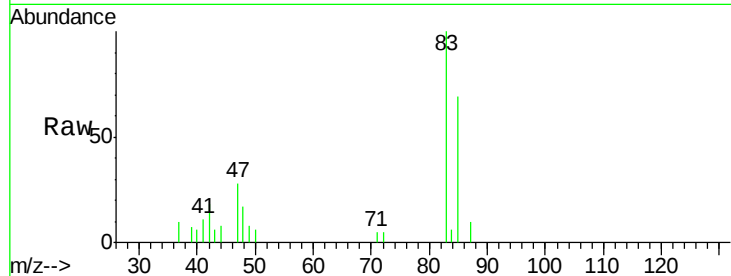
#27
 Chloroform
 Concen: 0.542 ug/l
 RT: 5.13 min Scan# 1178
 Delta R.T. -0.00 min
 Lab File: VU037147.D
 Acq: 10 Mar 2020 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT1-2020

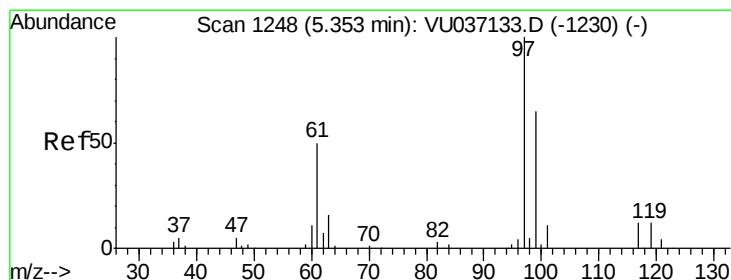
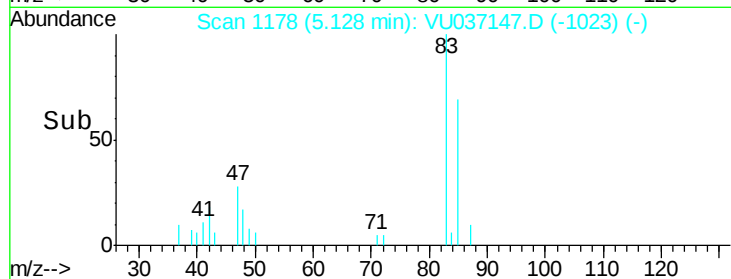
Tot Ion	83	Resp	4780
Ion Ratio	100	Lower	Upper
85	68.9	0.0	129.0

Manual Integrations
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sam

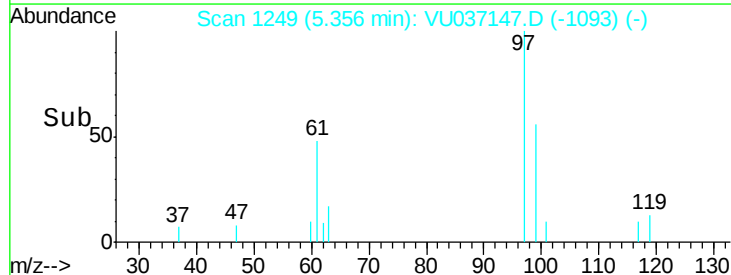
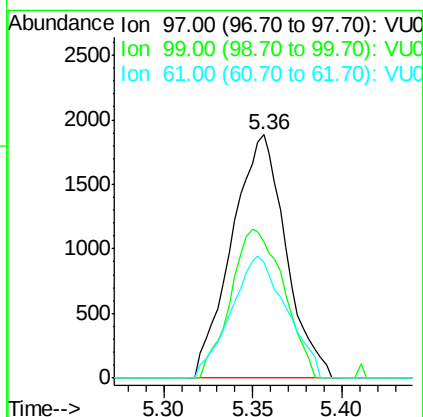
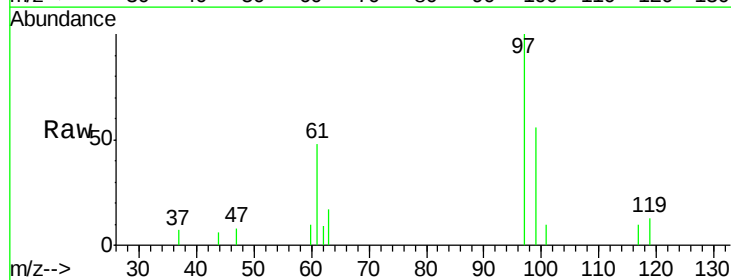


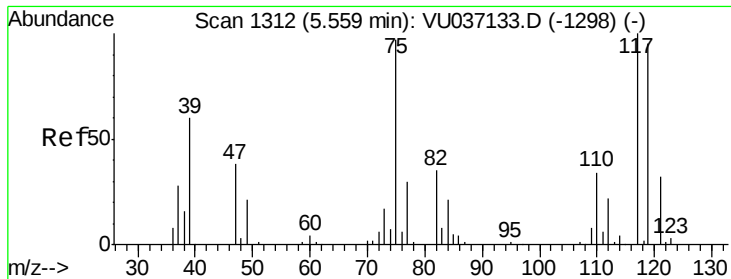
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#28
 1,1,1-Trichloroethane
 Concen: 0.529 ug/l
 RT: 5.36 min Scan# 1249
 Delta R.T. 0.00 min
 Lab File: VU037147.D
 Acq: 10 Mar 2020 12:10

Tgt Ion	97	Resp	3978
Ion Ratio	100	Lower	Upper
99	60.0	32.1	96.3
61	51.4	22.7	68.0





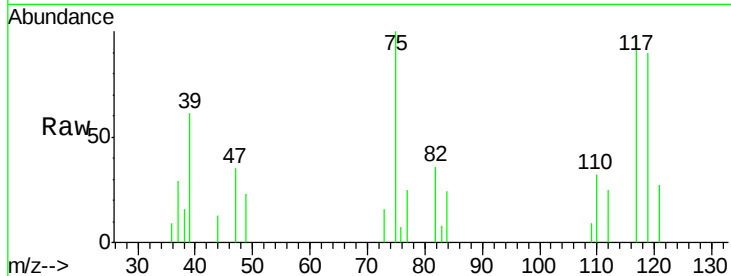
#29
1,1-Dichloropropene
Concen: 0.476 ug/l
RT: 5.56 min Scan# 1314
Delta R.T. 0.01 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2020

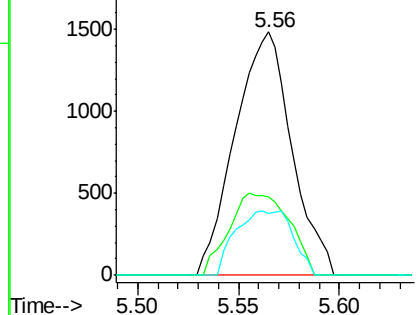
Tot Ion	Ratio	Lower	Upper
75	100		
110	35.7	18.6	55.8
77	26.7	25.0	37.4

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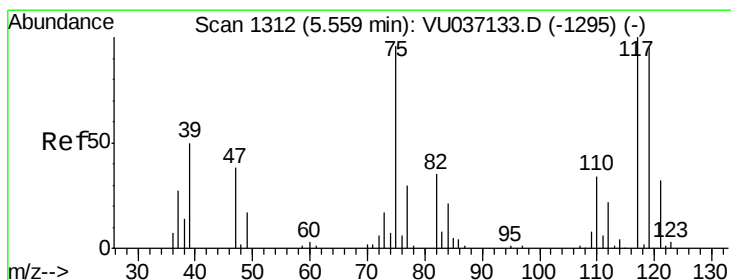
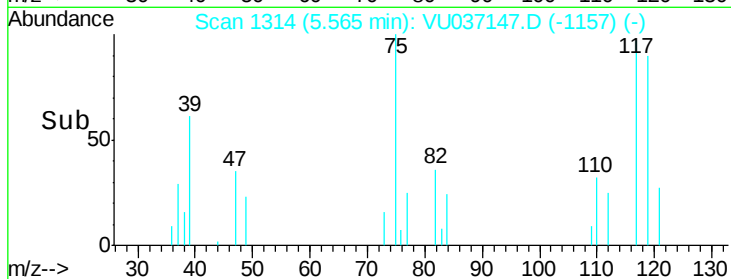
sam



Abundance Ion 75.00 (74.70 to 75.70): VU037133.D (-1298) (-)
Ion 110.00 (109.70 to 110.70): VU037133.D (-1298) (-)
Ion 77.00 (76.70 to 77.70): VU037133.D (-1298) (-)

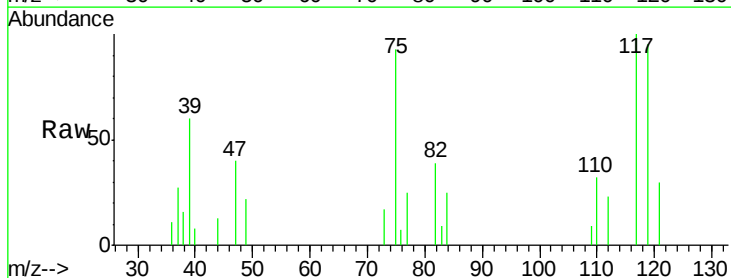


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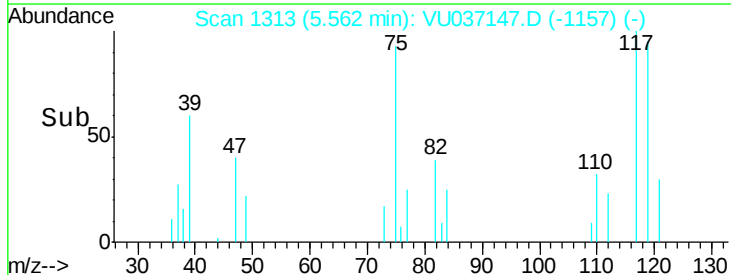
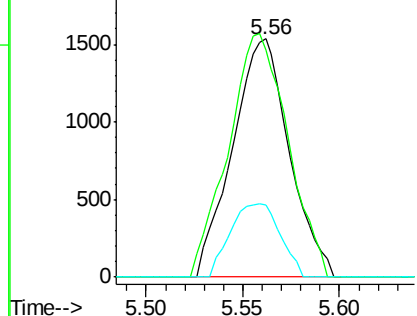


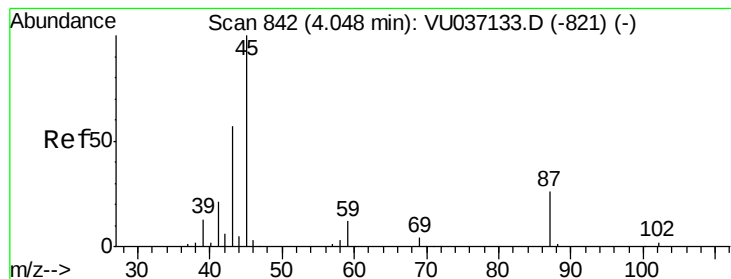
#30
Carbon Tetrachloride
Concen: 0.475 ug/l
RT: 5.56 min Scan# 1313
Delta R.T. 0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.4	77.0	115.6
121	30.2	23.3	34.9



Abundance Ion 117.00 (116.70 to 117.70): VU037133.D (-1295) (-)
Ion 119.00 (118.70 to 119.70): VU037133.D (-1295) (-)
Ion 121.00 (120.70 to 121.70): VU037133.D (-1295) (-)





#31

Isopropyl Ether

Concen: 0.472 ug/l

RT: 4.05 min Scan# 844

Delta R.T. 0.01 min

Lab File: VU037147.D

Acq: 10 Mar 2020 12:10

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2020

Tot Ion: 45 Resp: 6169

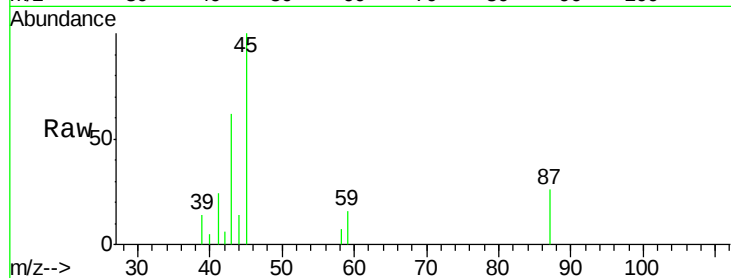
Ion Ratio Lower Upper

45 100

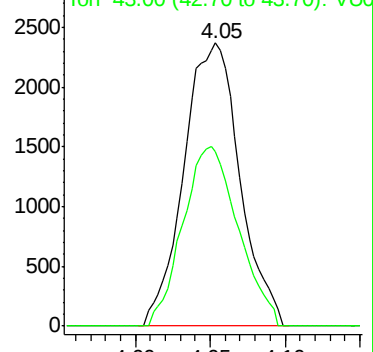
43 62.7 24.0 72.0

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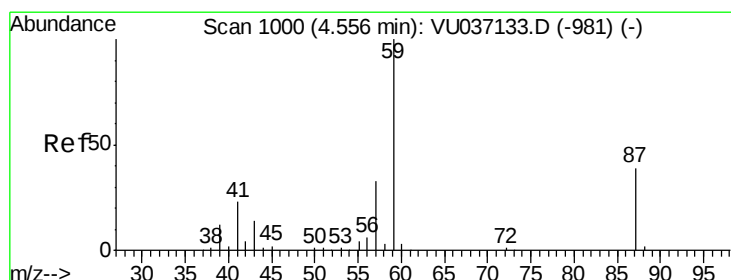
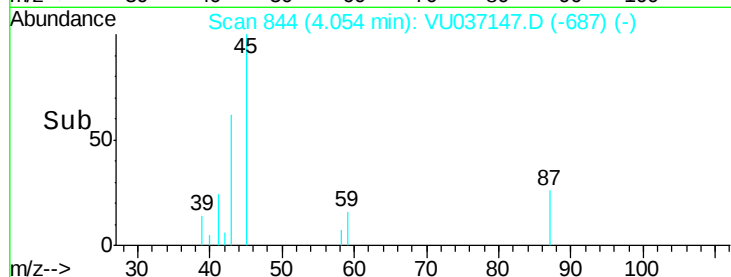
sam



Abundance Ion 45.00 (44.70 to 45.70): VU037147.D (-687) (-)



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#32

Ethyl-t-butyl ether

Concen: 0.491 ug/l

RT: 4.55 min Scan# 999

Delta R.T. -0.00 min

Lab File: VU037147.D

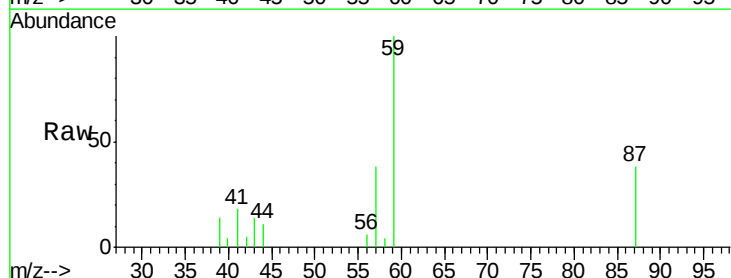
Acq: 10 Mar 2020 12:10

Tgt Ion: 59 Resp: 6064

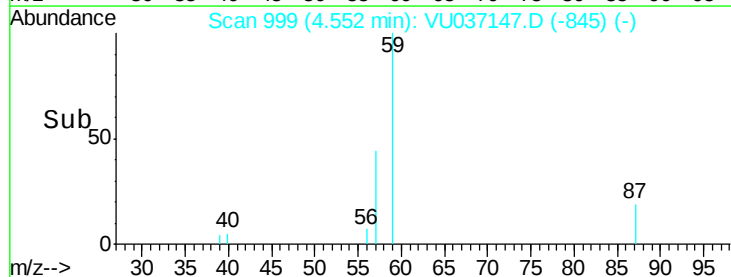
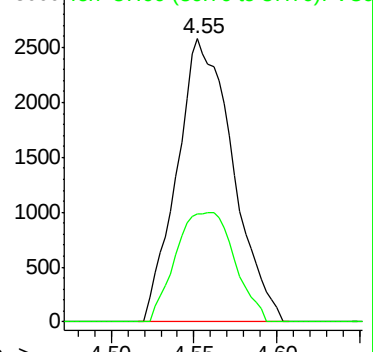
Ion Ratio Lower Upper

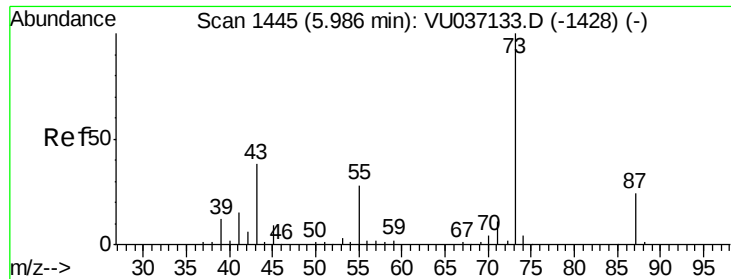
59 100

87 40.5 35.1 52.7



Abundance Ion 59.00 (58.70 to 59.70): VU037147.D (-845) (-)





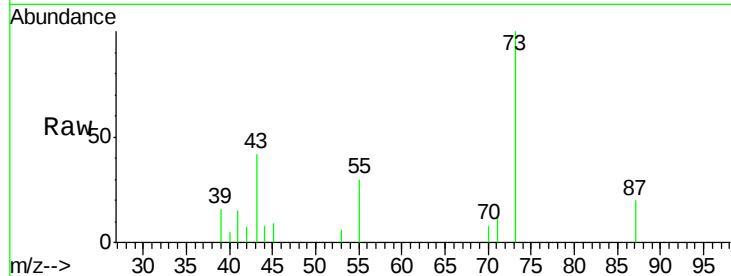
#33
Tert-Amvl methvl ether
Concen: 0.497 ug/l
RT: 5.99 min Scan# 1446
Delta R.T. 0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2020

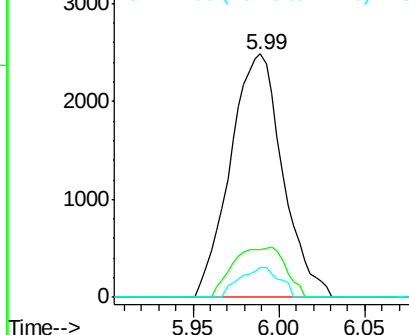
Tot Ion: 73 Resp: 5262
Ion Ratio Lower Upper
73 100
87 20.7 19.8 29.6
71 9.4 9.1 13.7

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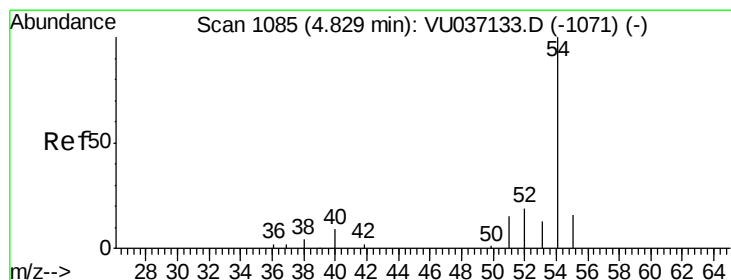
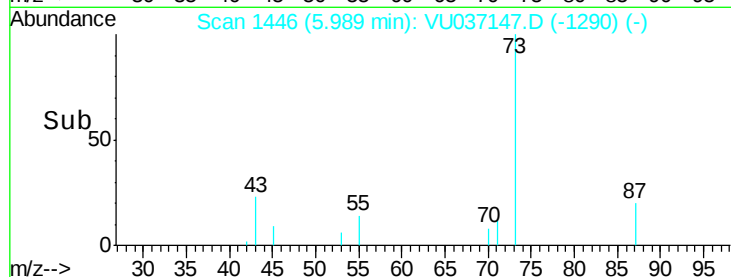
Sam



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 87.00 (86.70 to 87.70): VU0
Ion 71.00 (70.70 to 71.70): VU0



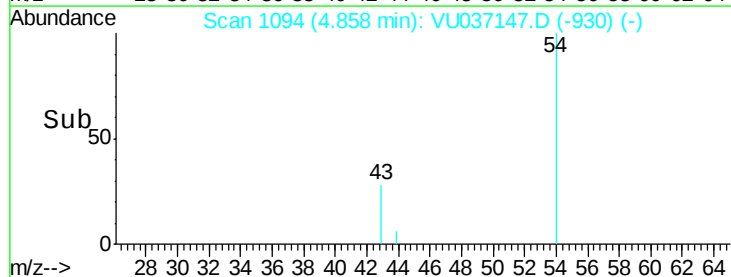
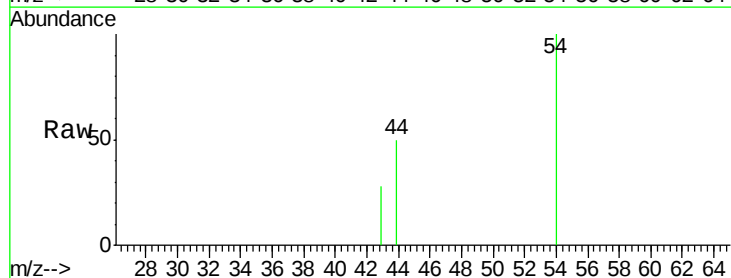
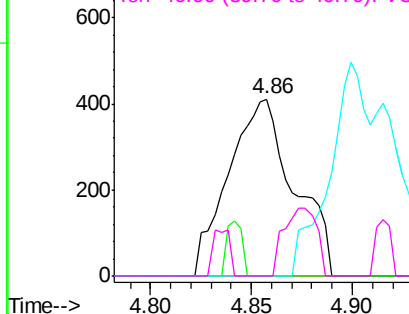
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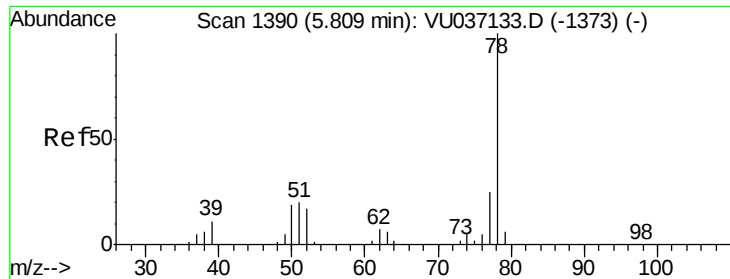


#34
Propionitrile
Concen: 2.640 ug/l
RT: 4.86 min Scan# 1094
Delta R.T. 0.03 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Tgt Ion: 54 Resp: 928
Ion Ratio Lower Upper
54 100
52 0.0 15.2 22.8#
55 0.0 9.5 14.3#
40 18.9 4.6 6.8#

Abundance Ion 54.00 (53.70 to 54.70): VU0
Ion 52.00 (51.70 to 52.70): VU0
Ion 55.00 (54.70 to 55.70): VU0
Ion 40.00 (39.70 to 40.70): VU0





#35

Benzene

Concen: 0.526 ug/l

RT: 5.81 min Scan# 1390

Delta R.T. -0.00 min

Lab File: VU037147.D

Acq: 10 Mar 2020 12:10

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2020

Tot Ion: 78 Resp: 9130

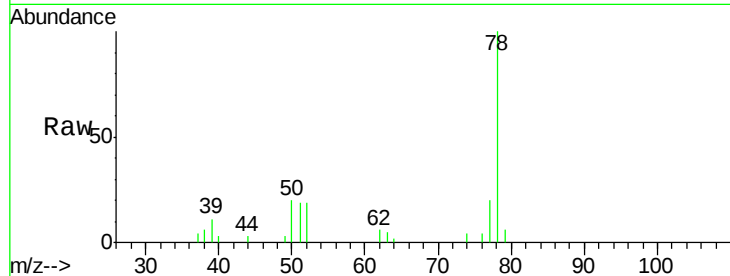
Ion Ratio Lower Upper

78 100

77 19.9 19.4 29.0

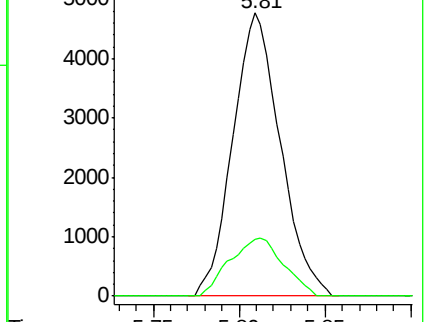
Manual Integrations
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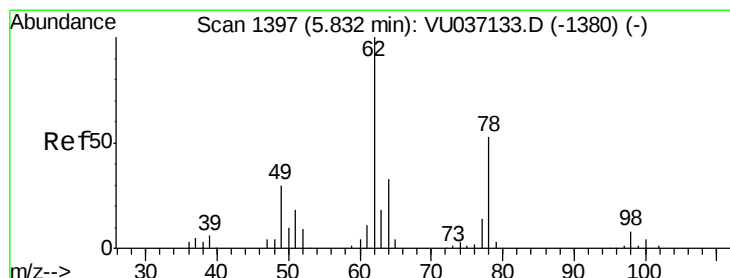
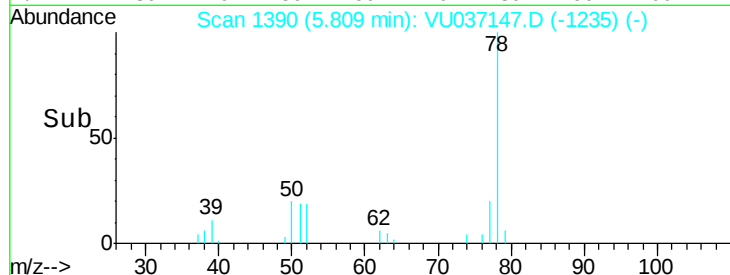


Abundance Ion 78.10 (77.80 to 78.80): VU037147.D (-1235) (-)

Ion 77.00 (76.70 to 77.70): VU037147.D (-1235) (-)



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#36

1,2-Dichloroethane

Concen: 0.513 ug/l

RT: 5.83 min Scan# 1398

Delta R.T. 0.00 min

Lab File: VU037147.D

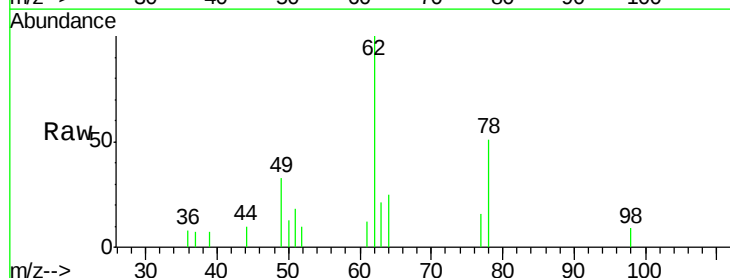
Acq: 10 Mar 2020 12:10

Tgt Ion: 62 Resp: 3229

Ion Ratio Lower Upper

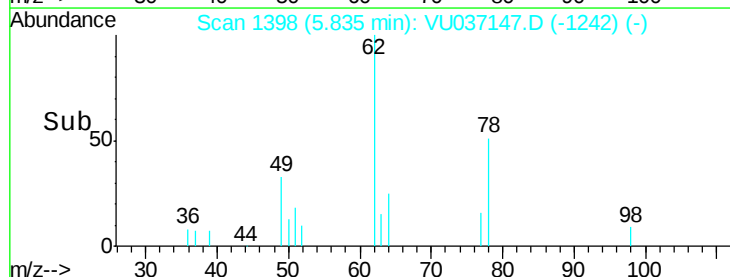
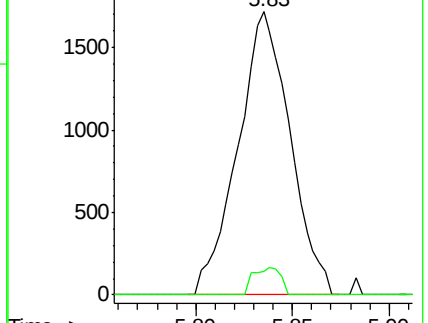
62 100

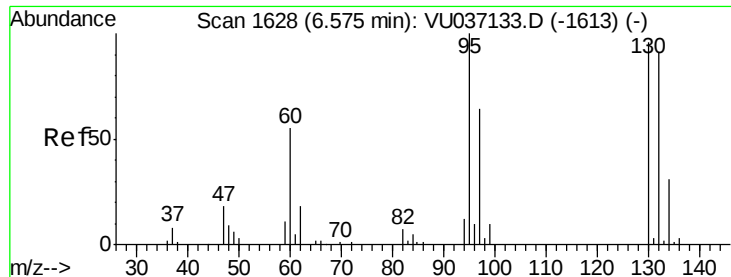
98 5.1 7.8 11.8#



Abundance Ion 62.00 (61.70 to 62.70): VU037147.D (-1242) (-)

Ion 98.00 (97.70 to 98.70): VU037147.D (-1242) (-)





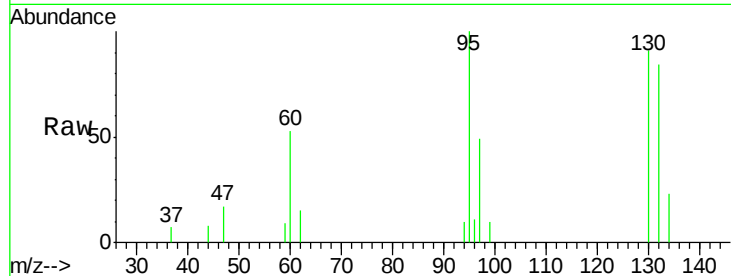
#37
 Trichloroethene
 Concen: 0.530 ug/l
 RT: 6.57 min Scan# 1628
 Delta R.T. -0.00 min
 Lab File: VU037147.D
 Acq: 10 Mar 2020 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT1-2020

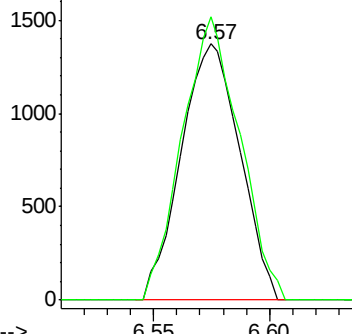
Tot Ion:130 Resp: 2414
 Ion Ratio Lower Upper
 130 100
 95 110.4 77.0 115.4

Manual Integrations
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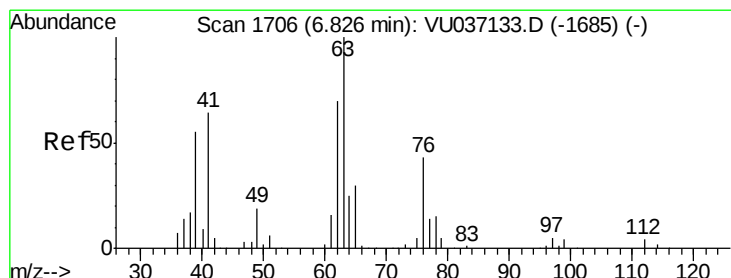
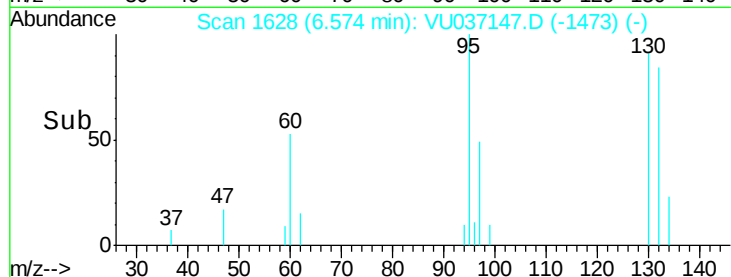
Sam



Abundance Ion 129.90 (129.60 to 130.60): VU037133.D (-1613) (-)
 Ion 94.90 (94.60 to 95.60): VU037133.D (-1613) (-)

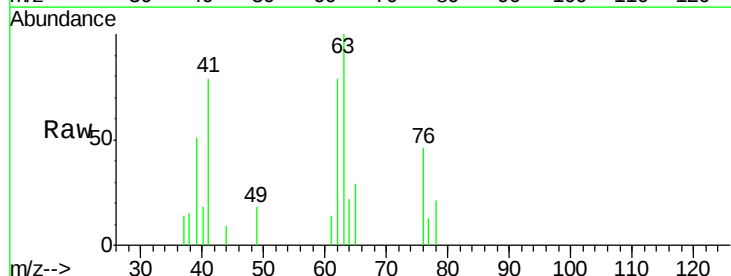


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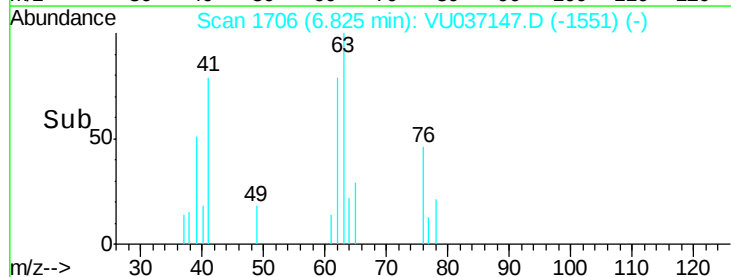
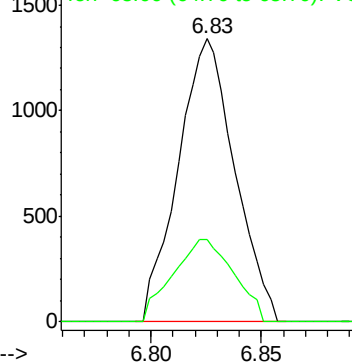


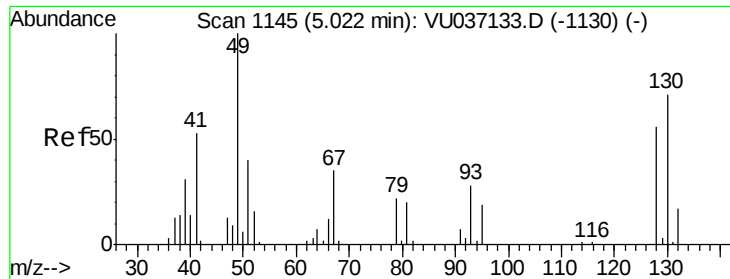
#38
 1,2-Dichloropropane
 Concen: 0.501 ug/l
 RT: 6.83 min Scan# 1706
 Delta R.T. -0.00 min
 Lab File: VU037147.D
 Acq: 10 Mar 2020 12:10

Tgt Ion: 63 Resp: 2384
 Ion Ratio Lower Upper
 63 100
 65 28.9 24.7 37.1



Abundance Ion 63.00 (62.70 to 63.70): VU037133.D (-1685) (-)
 Ion 65.00 (64.70 to 65.70): VU037133.D (-1685) (-)





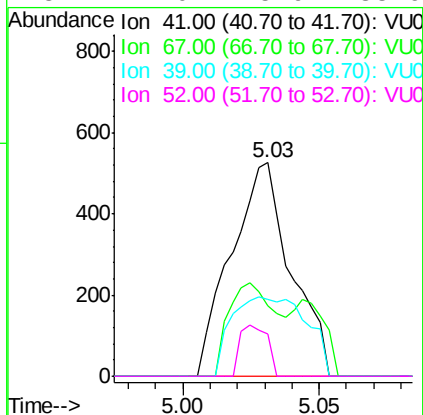
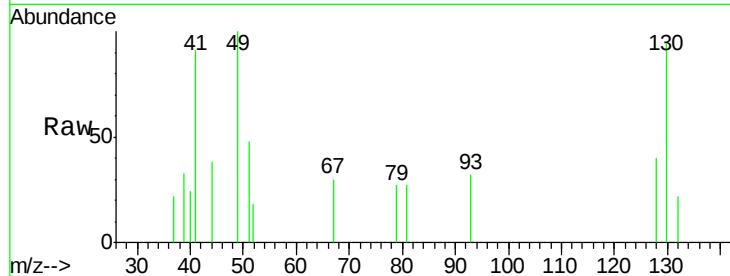
#39
Methacrylonitrile
Concen: 0.471 ug/l
RT: 5.03 min Scan# 1148
Delta R.T. 0.01 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2020

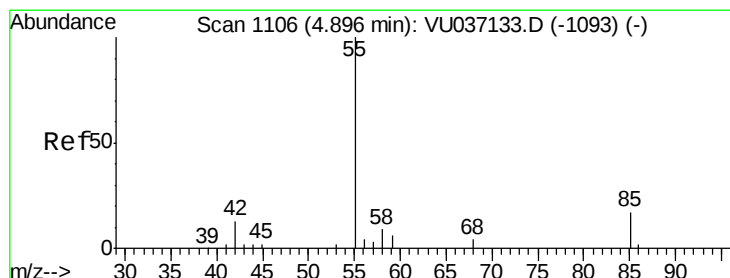
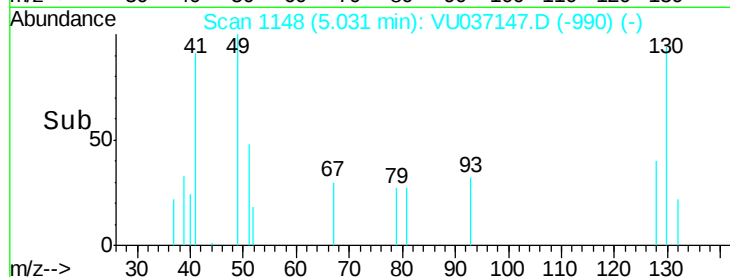
Tot Ion	Ratio	Lower	Upper
41	100		
67	35.0	69.6	104.4#
39	46.9	41.6	62.4
52	11.0	25.9	38.9#

Manual Integrations
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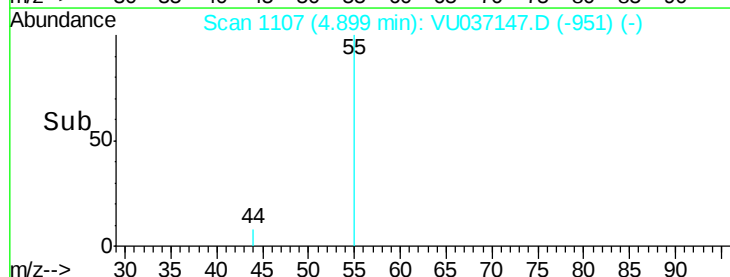
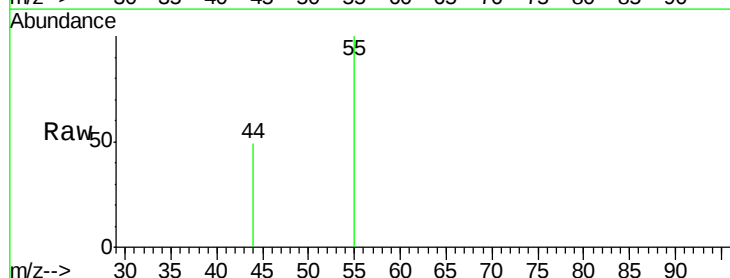
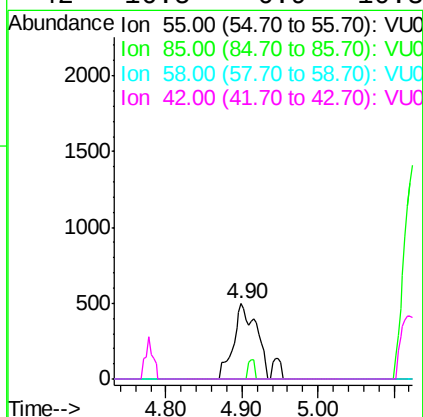


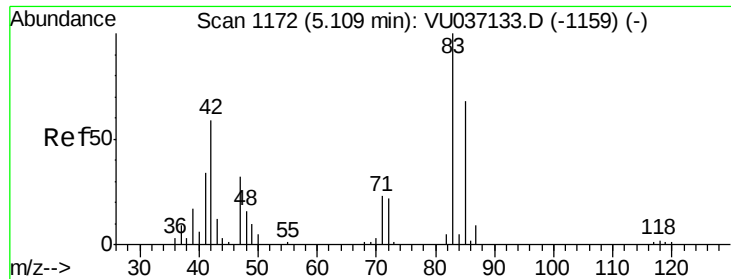
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#40
Methyl acrylate
Concen: 0.482 ug/l m
RT: 4.90 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Tgt Ion	Ratio	Lower	Upper
55	100		
85	0.0	14.7	22.1#
58	0.0	7.1	10.7#
42	16.5	6.9	10.3#





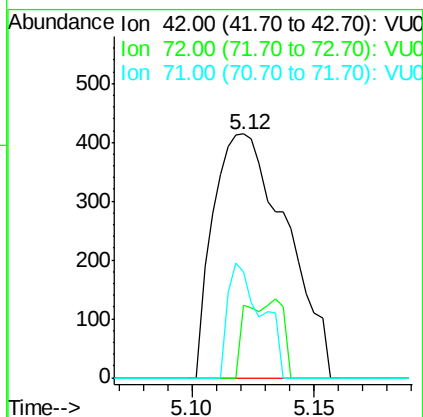
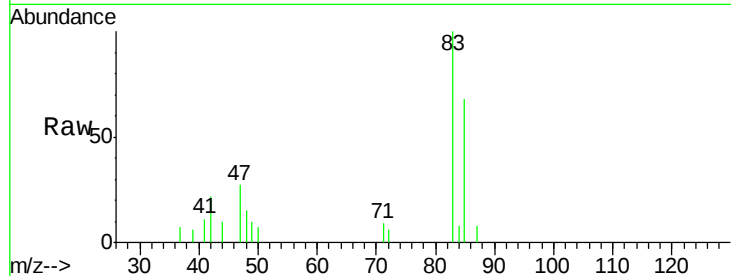
#41
Tetrahydrofuran
Concen: 1.019 ug/l
RT: 5.12 min Scan# 1176
Delta R.T. 0.01 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2020

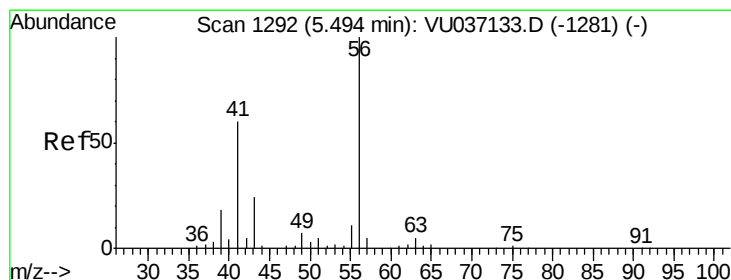
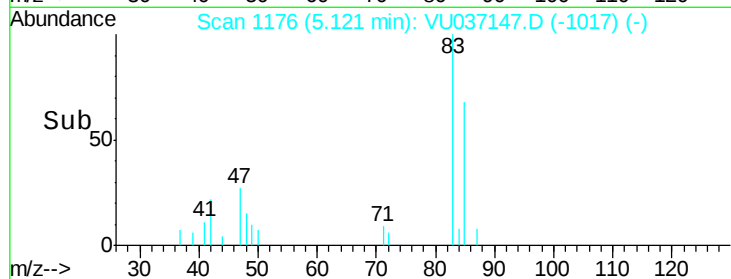
Tot Ion	Ratio	Lower	Upper
42	100		
72	16.4	42.5	63.7#
71	21.7	37.3	55.9#

Manual Integrations
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sam

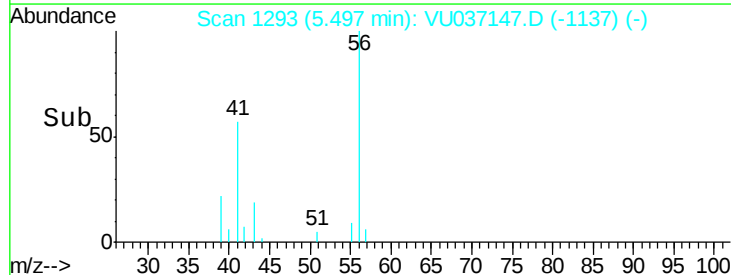
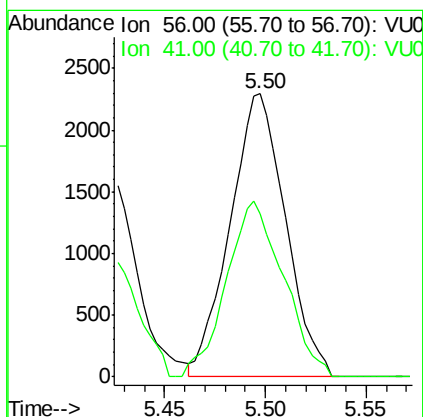
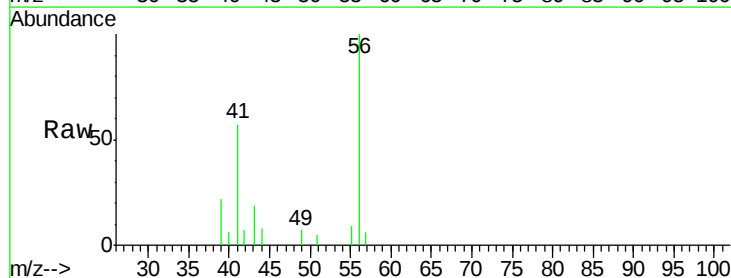


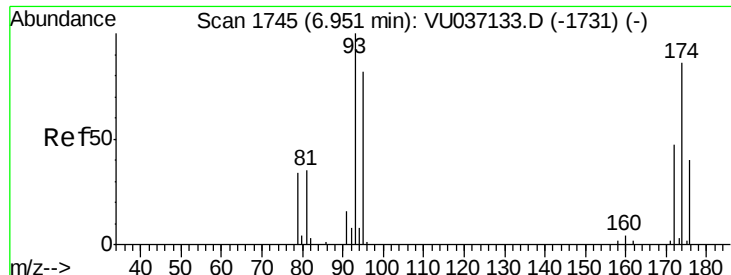
3/11/2020 3:32:21 PM



#42
1-Chlorobutane
Concen: 0.500 ug/l
RT: 5.50 min Scan# 1293
Delta R.T. 0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Tgt Ion	Ratio	Lower	Upper
56	100		
41	64.0	24.8	74.3





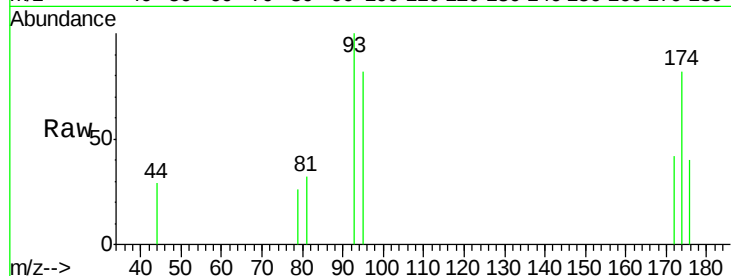
#43
Dibromomethane
Concen: 0.524 ug/l
RT: 6.95 min Scan# 1746
Delta R.T. 0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2020

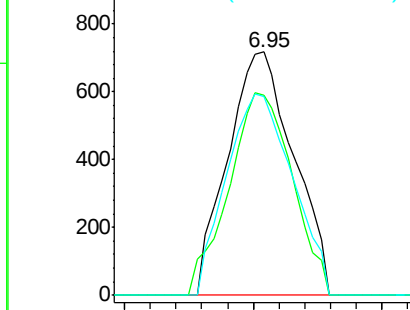
Tot Ion	Ion	Ratio	Lower	Upper
93	100			
95	80.1	67.9	101.9	
174	82.7	83.4	125.0	

Manual Integrations
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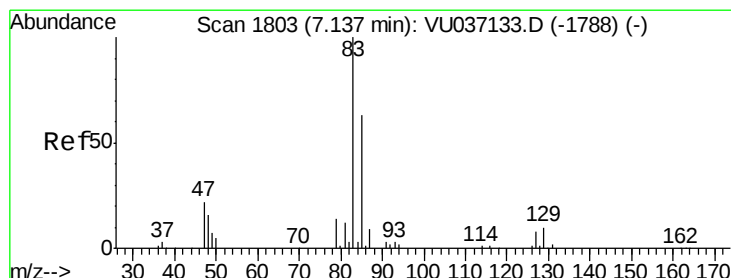
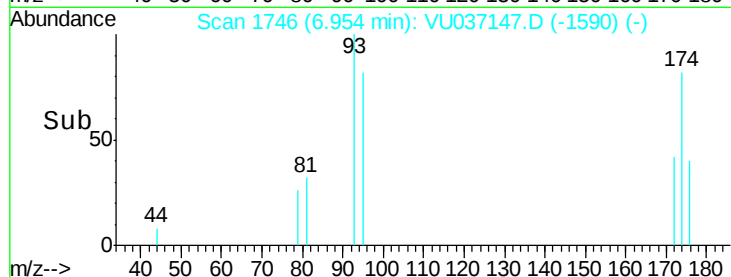
sam



Abundance Ion 93.00 (92.70 to 93.70): VU037147.D (-1590) (-)
Ion 95.00 (94.70 to 95.70): VU037147.D (-1590) (-)
Ion 174.00 (173.70 to 174.70): VU037147.D (-1590) (-)

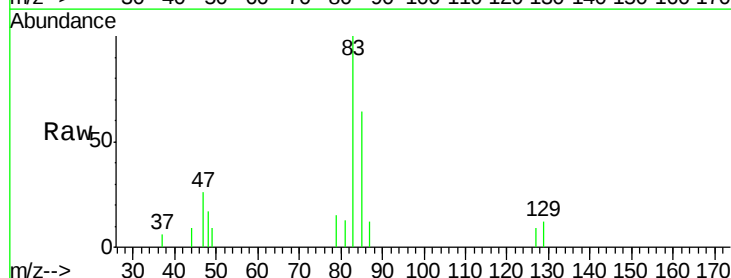


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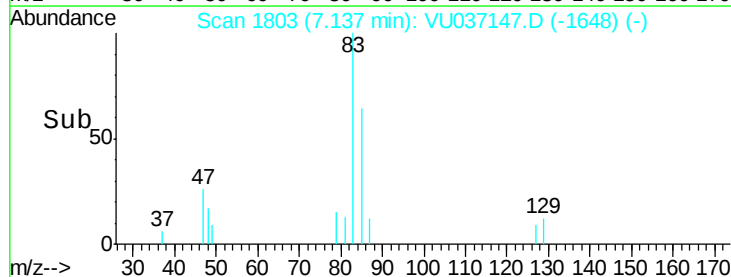
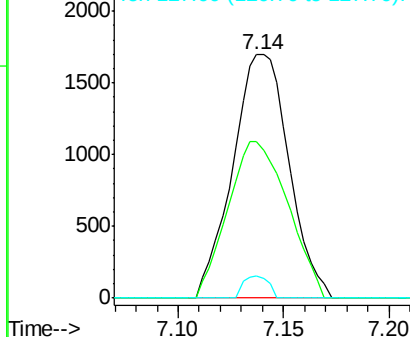


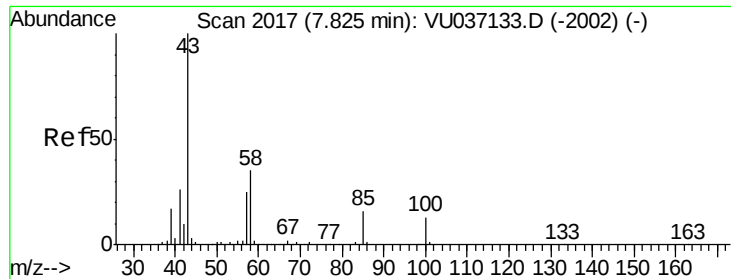
#44
Bromodichloromethane
Concen: 0.494 ug/l
RT: 7.14 min Scan# 1803
Delta R.T. -0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Tgt Ion	Ion	Ratio	Lower	Upper
83	100			
85	64.1	51.8	77.6	
127	9.3	6.8	10.2	



Abundance Ion 83.00 (82.70 to 83.70): VU037147.D (-1648) (-)
Ion 85.00 (84.70 to 85.70): VU037147.D (-1648) (-)
Ion 127.00 (126.70 to 127.70): VU037147.D (-1648) (-)





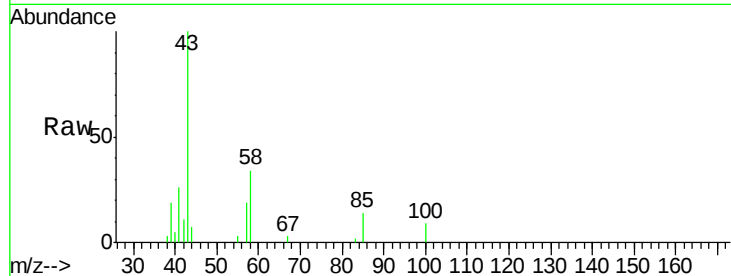
#45
4-Methyl-2-Pentanone
Concen: 2.560 ug/l
RT: 7.83 min Scan# 2019
Delta R.T. 0.01 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
43	100		
58	29.9	22.1	66.1
85	13.5	17.4	26.0

Manual Integrations
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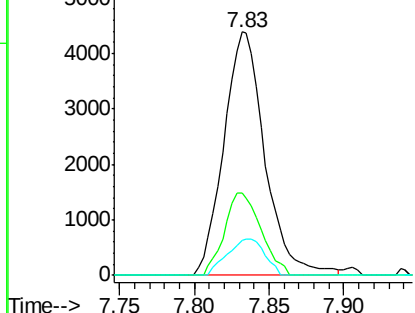


Abundance

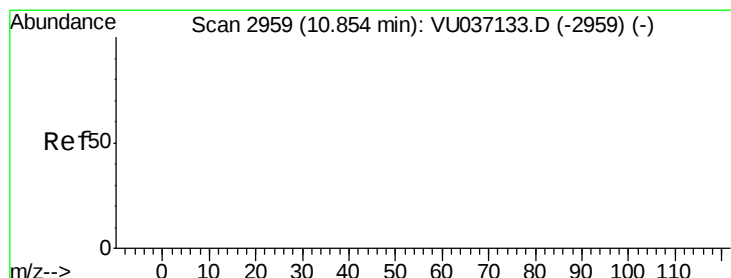
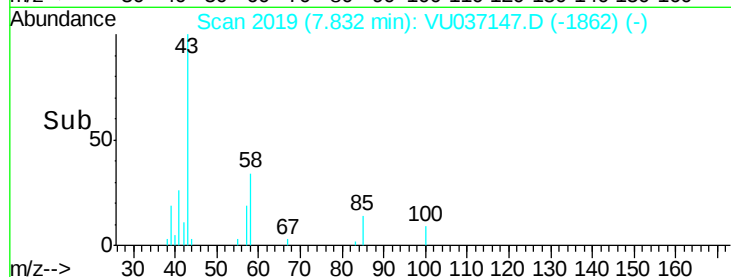
Ion 43.00 (42.70 to 43.70): VU037147.D (-1862) (-)

Ion 58.00 (57.70 to 58.70): VU037147.D (-1862) (-)

Ion 85.00 (84.70 to 85.70): VU037147.D (-1862) (-)



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#46
t-1,4-Dichloro-2-butene
Concen: 1.069 ug/l m
RT: 10.86 min Scan# 2960
Delta R.T. 0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Tgt Ion	Ratio	Lower	Upper
75	100		
53	89.0	52.2	78.2
89	43.1	39.8	59.6
88	19.1	27.4	41.2

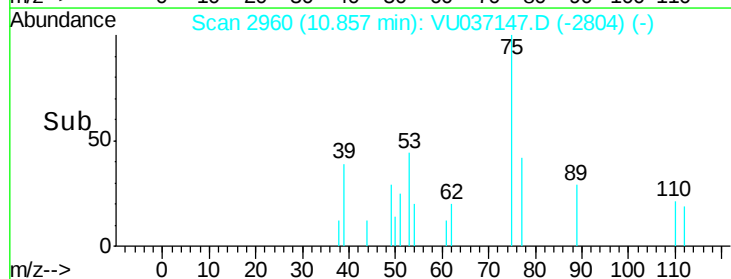
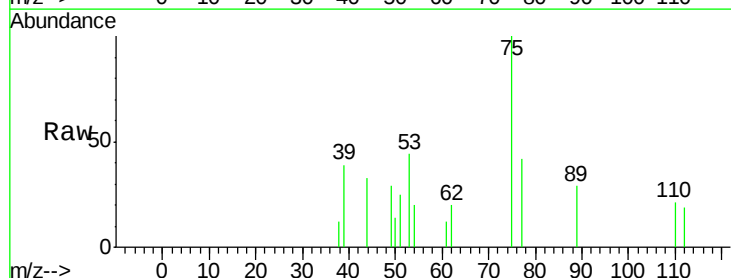
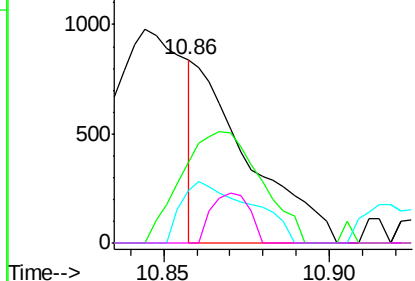
Abundance

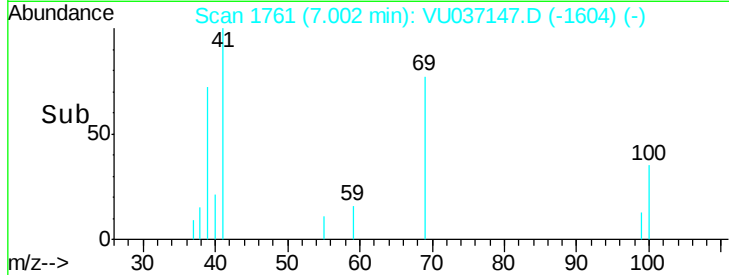
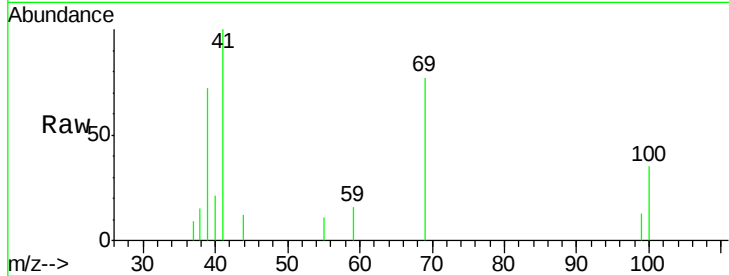
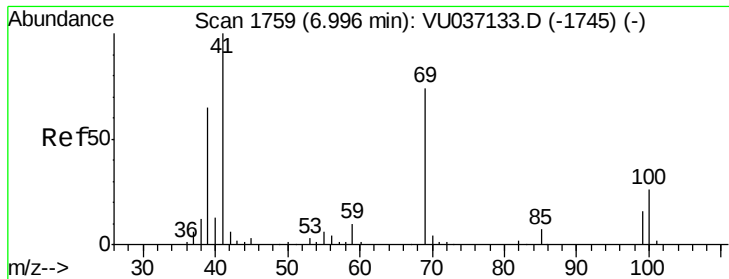
Ion 74.90 (74.60 to 75.60): VU037147.D (-2804) (-)

Ion 53.00 (52.70 to 53.70): VU037147.D (-2804) (-)

Ion 88.80 (88.50 to 89.50): VU037147.D (-2804) (-)

Ion 87.80 (87.50 to 88.50): VU037147.D (-2804) (-)





#47
Methyl methacrylate
Concen: 0.886 ug/l
RT: 7.00 min Scan# 1761
Delta R.T. 0.01 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

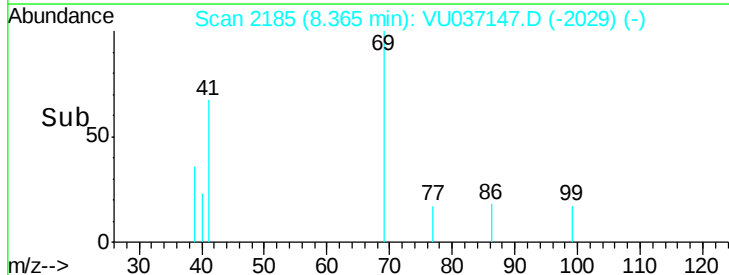
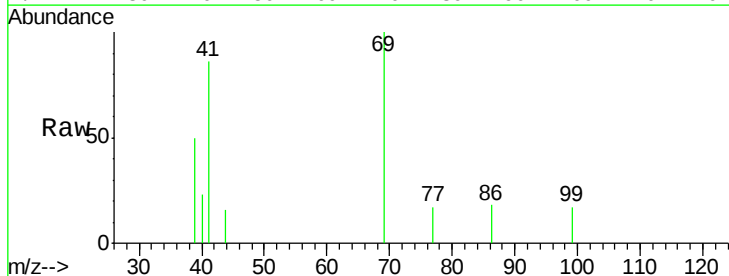
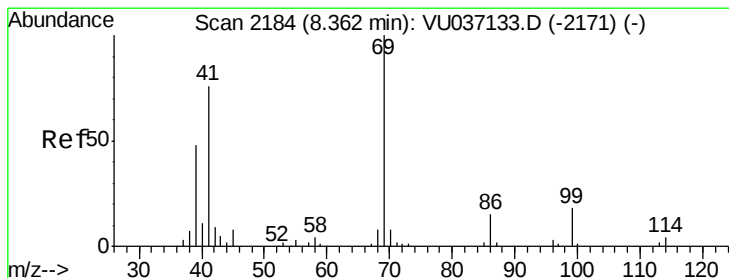
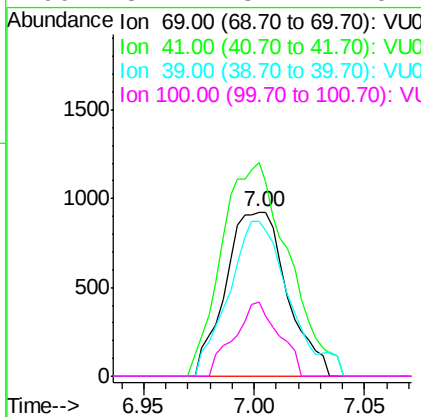
Tot Ion: 69 Resp: 1787
Ion Ratio Lower Upper
69 100
41 141.3 0.0 200.8
39 92.9 43.5 65.3#
100 32.7 31.1 46.7

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2020

Manual Integrations
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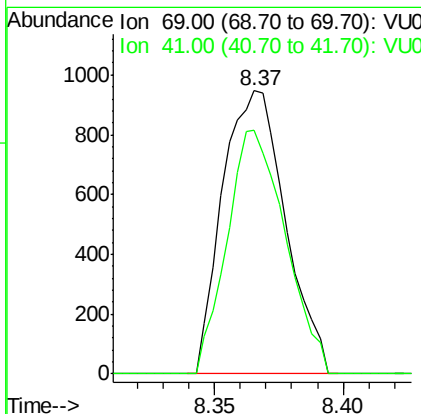
Sam

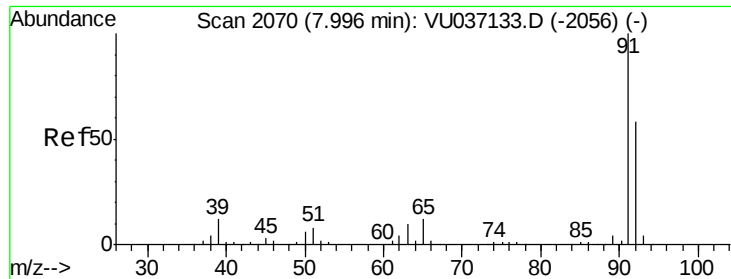
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#48
Ethyl methacrylate
Concen: 0.402 ug/l
RT: 8.37 min Scan# 2185
Delta R.T. 0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Tgt Ion: 69 Resp: 1603
Ion Ratio Lower Upper
69 100
41 80.0 27.9 83.6





#49

Toluene

Concen: 0.462 ug/l

RT: 8.00 min Scan# 2071

Delta R.T. 0.00 min

Lab File: VU037147.D

Acq: 10 Mar 2020 12:10

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2020

Tot Ion: 92 Resp: 4836

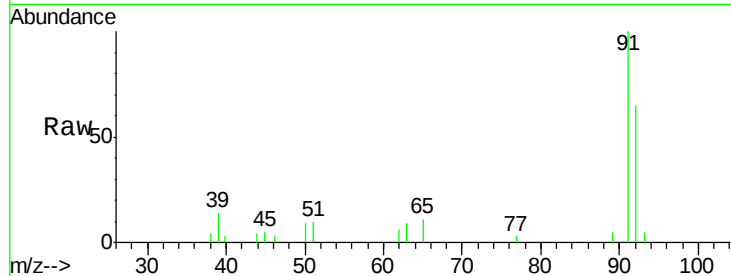
Ion Ratio Lower Upper

92 100

91 170.0 139.1 208.7

Manual Integrations
APPROVED

Sam



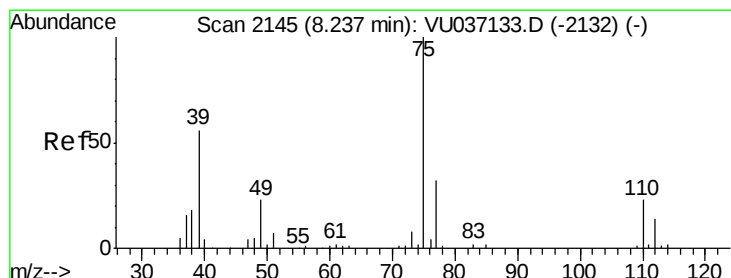
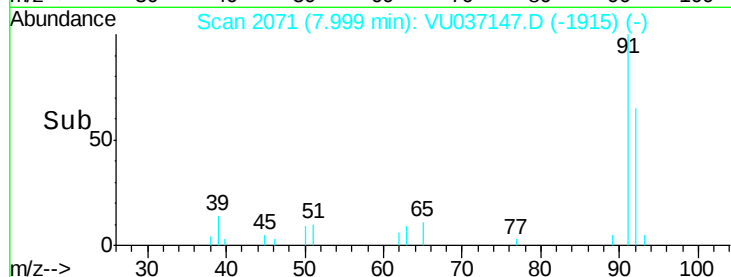
Abundance Ion 92.00 (91.70 to 92.70): VU037133.D (-2056) (-)

Ion 91.00 (90.70 to 91.70): VU037133.D (-2056) (-)

8.00

Time-->

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#50

t-1,3-Dichloropropene

Concen: 0.452 ug/l

RT: 8.24 min Scan# 2147

Delta R.T. 0.01 min

Lab File: VU037147.D

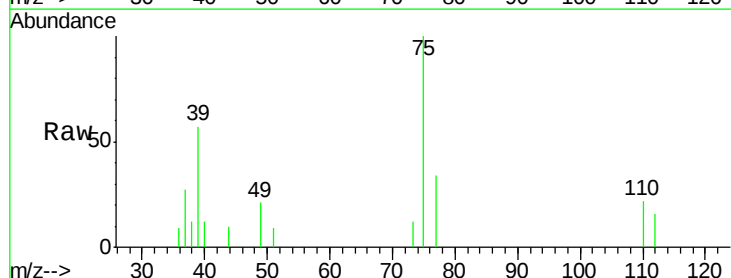
Acq: 10 Mar 2020 12:10

Tgt Ion: 75 Resp: 2585

Ion Ratio Lower Upper

75 100

77 33.7 25.4 38.2

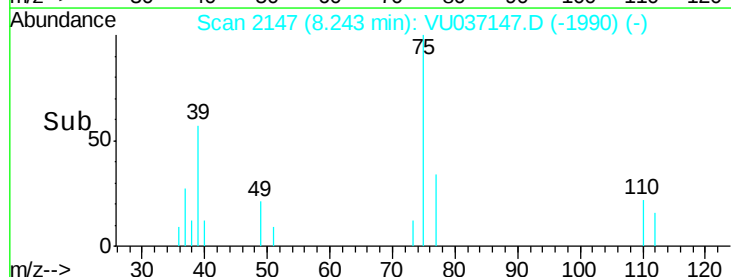


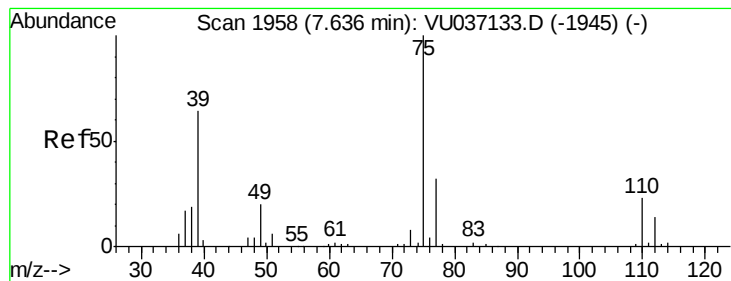
Abundance Ion 75.00 (74.70 to 75.70): VU037133.D (-2132) (-)

Ion 77.00 (76.70 to 77.70): VU037133.D (-2132) (-)

8.24

Time-->





#51

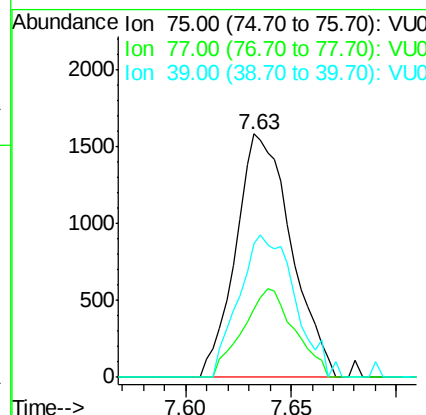
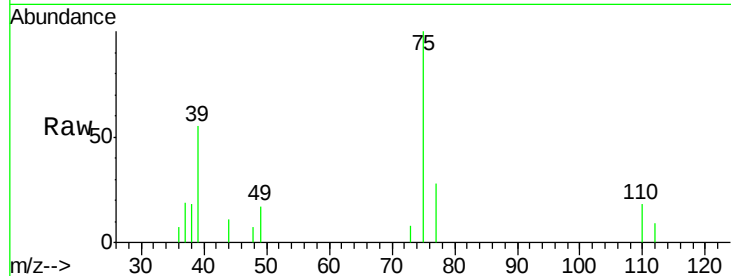
cis-1,3-Dichloropropene
Concen: 0.442 ug/l
RT: 7.63 min Scan# 1957
Delta R.T. -0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2020

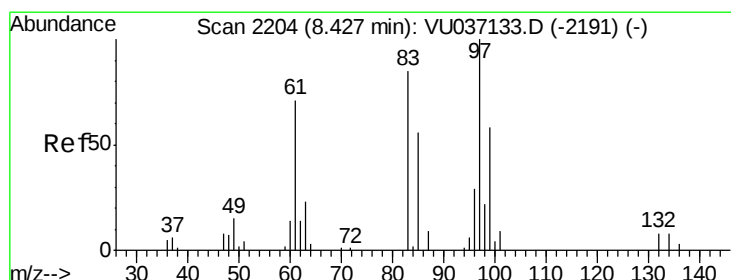
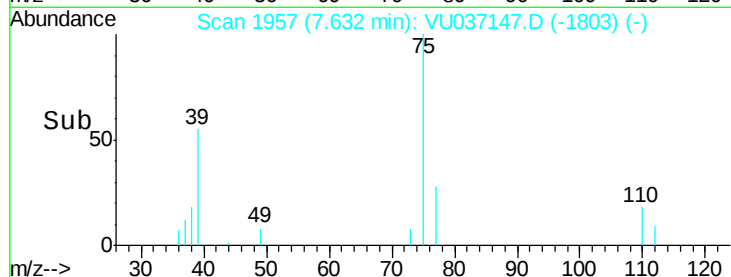
Tot Ion	Ratio	Lower	Upper
75	100		
77	27.9	25.3	37.9
39	54.9	31.8	47.6#

Manual Integrations
APPROVED

sam



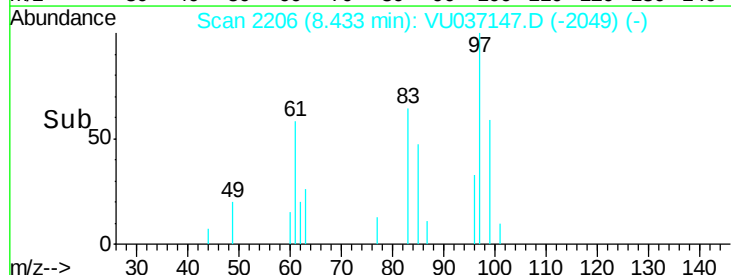
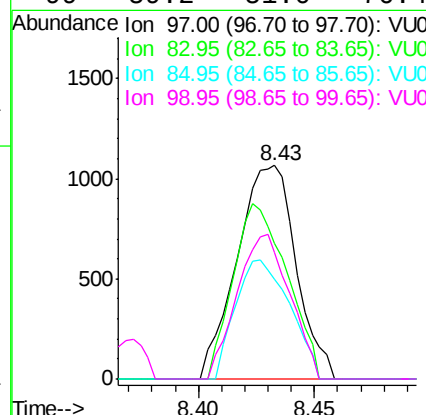
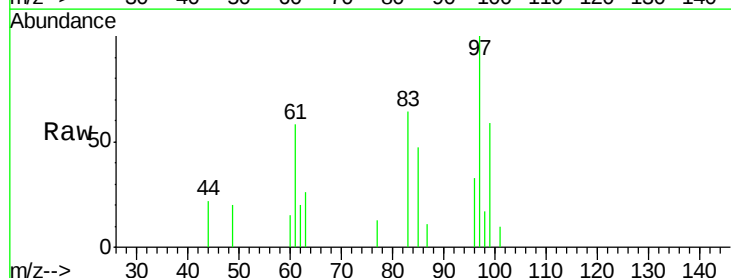
3/11/2020 3:32:21 PM

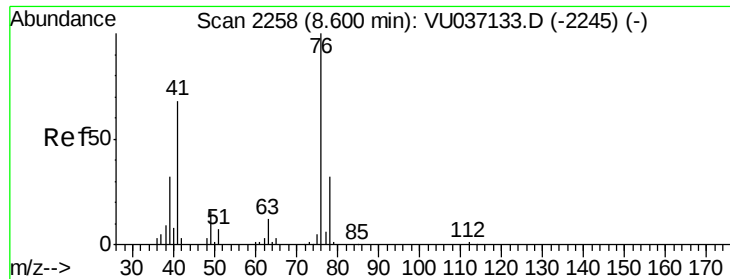


#52

1,1,2-Trichloroethane
Concen: 0.578 ug/l
RT: 8.43 min Scan# 2206
Delta R.T. 0.01 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Tgt Ion	Ratio	Lower	Upper
97	100		
83	63.7	70.9	106.3#
85	46.7	45.6	68.4
99	59.2	51.0	76.4





#53

1,3-Dichloropropane

Concen: 0.512 ug/l

RT: 8.60 min Scan# 2259

Delta R.T. 0.00 min

Lab File: VU037147.D

Acq: 10 Mar 2020 12:10

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2020

Tot Ion: 76 Resp: 2957

Ion Ratio Lower Upper

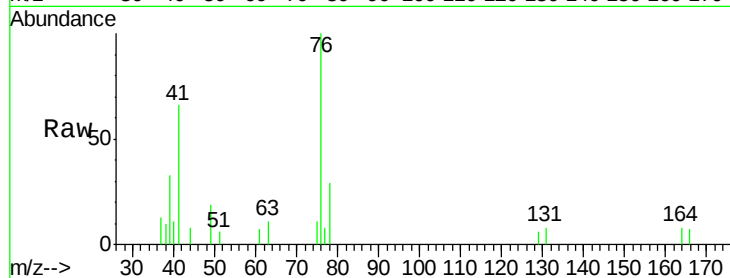
76 100

78 30.0 25.4 38.2

Manual Integrations

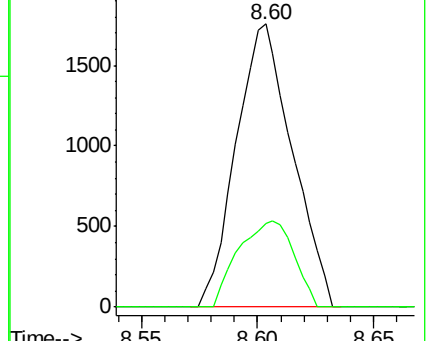
APPROVED

Sam

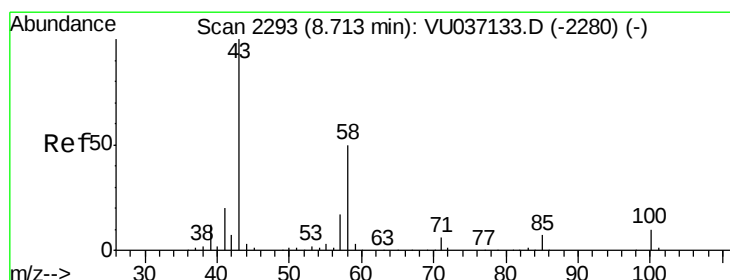
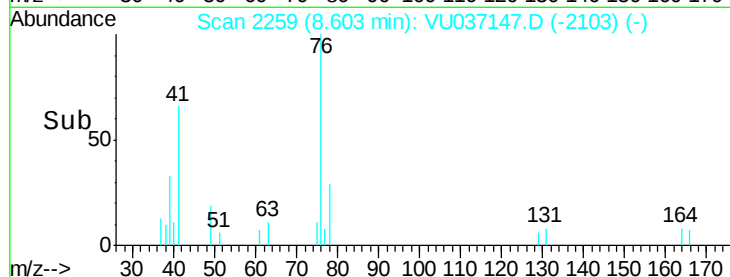


Abundance Ion 76.00 (75.70 to 76.70): VU037147.D (-2103) (-)

Ion 78.00 (77.70 to 78.70): VU037147.D (-2103) (-)



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#54

2-Hexanone

Concen: 2.174 ug/l

RT: 8.72 min Scan# 2296

Delta R.T. 0.01 min

Lab File: VU037147.D

Acq: 10 Mar 2020 12:10

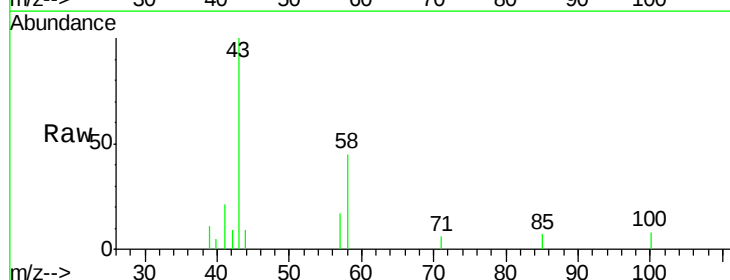
Tgt Ion: 43 Resp: 4903

Ion Ratio Lower Upper

43 100

58 43.1 40.6 80.6

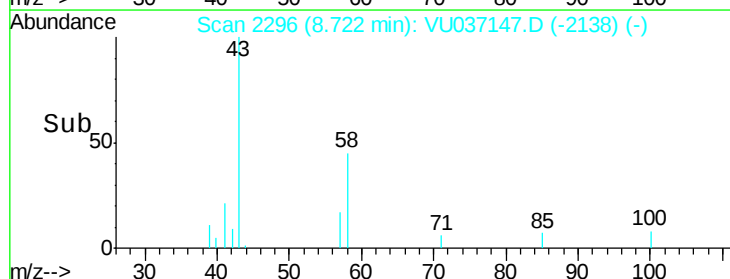
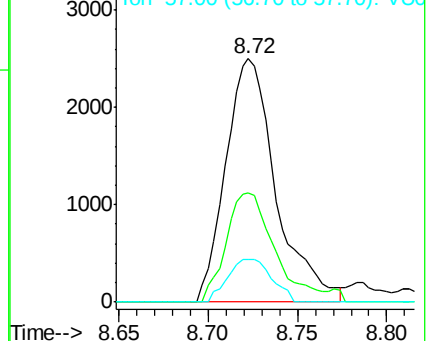
57 15.3 1.2 41.2

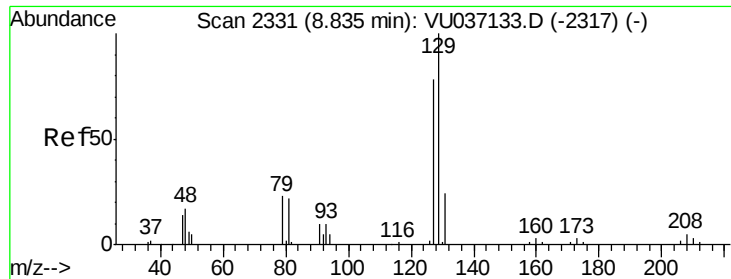


Abundance Ion 43.00 (42.70 to 43.70): VU037147.D (-2138) (-)

Ion 58.00 (57.70 to 58.70): VU037147.D (-2138) (-)

Ion 57.00 (56.70 to 57.70): VU037147.D (-2138) (-)





#55

Dibromochloromethane

Concen: 0.495 ug/l

RT: 8.83 min Scan# 2331

Delta R.T. -0.00 min

Lab File: VU037147.D

Acq: 10 Mar 2020 12:10

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2020

Tot Ion:129 Resp: 1997

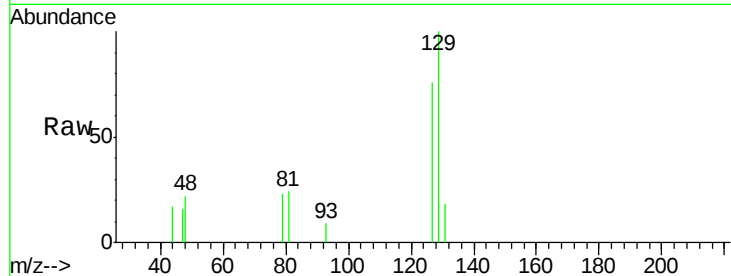
Ion Ratio Lower Upper

129 100

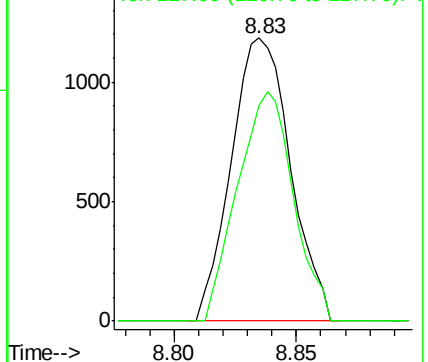
127 76.5 62.6 94.0

Manual Integrations
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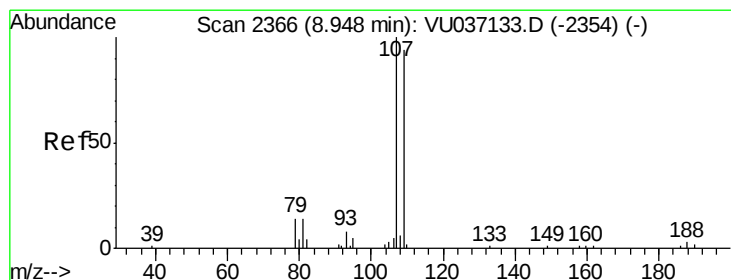
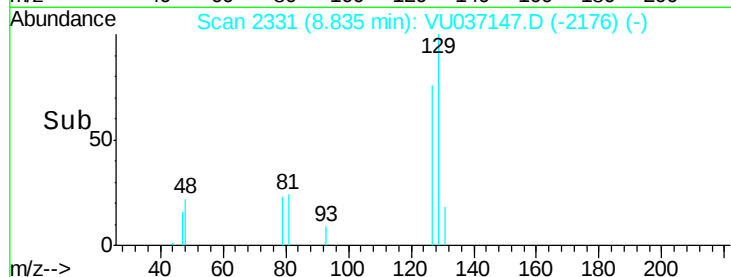
sam



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V



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#56

1,2-Dibromoethane

Concen: 0.476 ug/l

RT: 8.95 min Scan# 2367

Delta R.T. 0.00 min

Lab File: VU037147.D

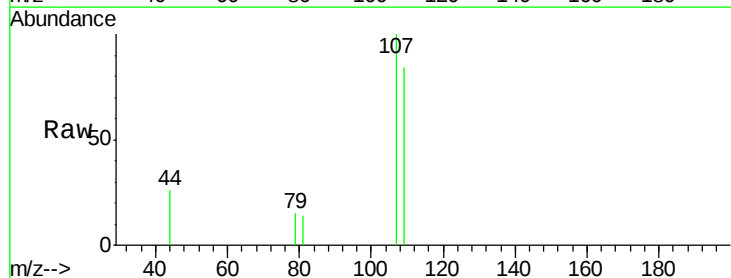
Acq: 10 Mar 2020 12:10

Tgt Ion:107 Resp: 1467

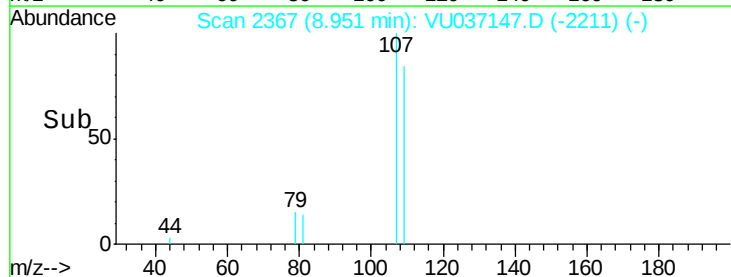
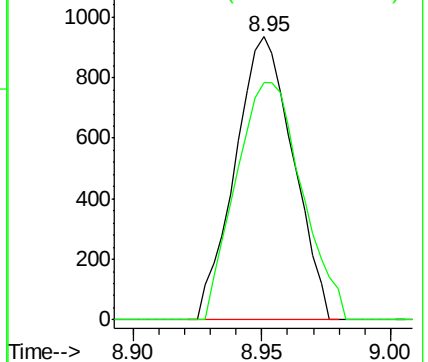
Ion Ratio Lower Upper

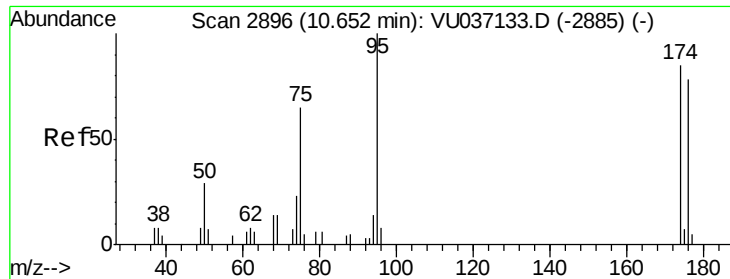
107 100

109 95.2 0.0 190.8



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V





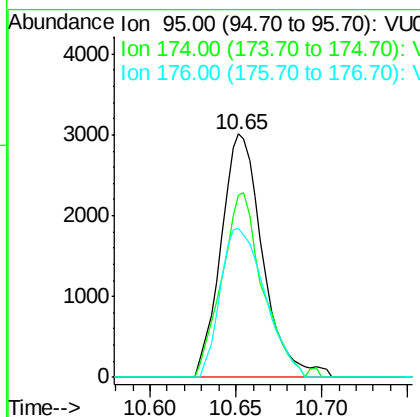
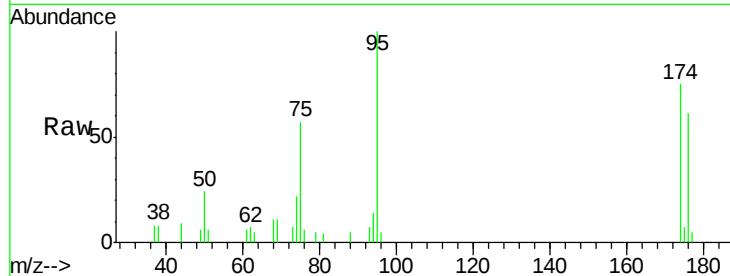
#57
4-Bromofluorobenzene
Concen: 0.917 ug/l
RT: 10.65 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2020

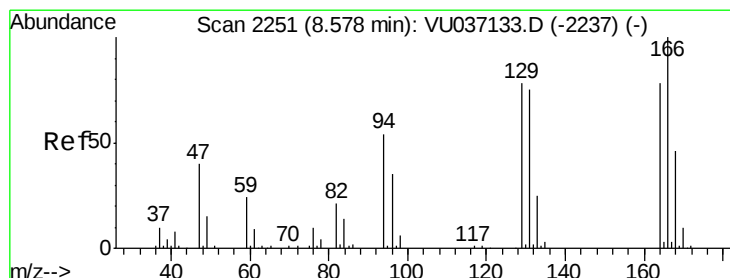
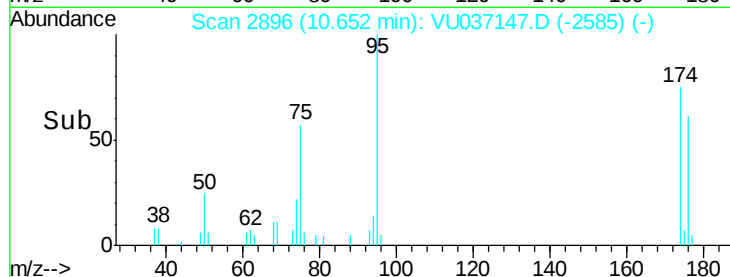
Tot Ion	Ratio	Lower	Upper
95	100		
174	74.1	64.7	97.1
176	65.4	60.6	91.0

Manual Integrations
APPROVED

sam

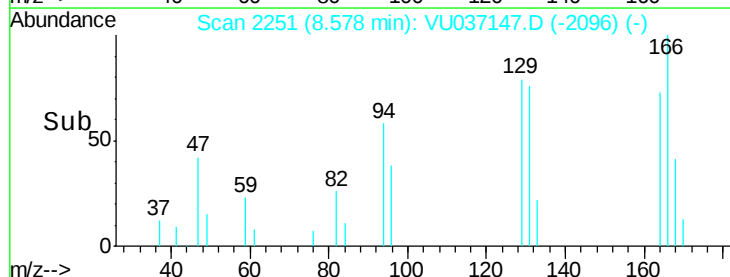
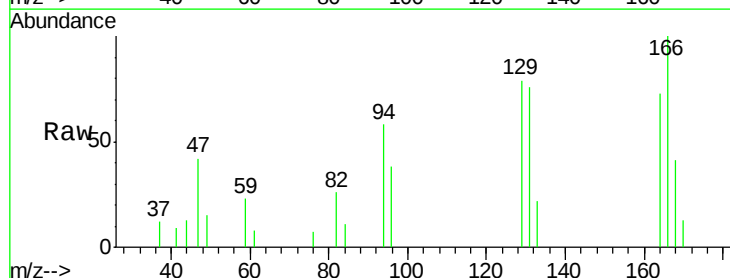
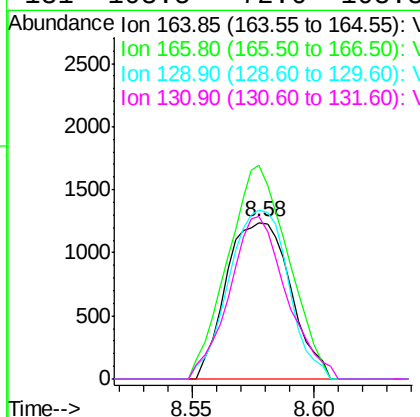


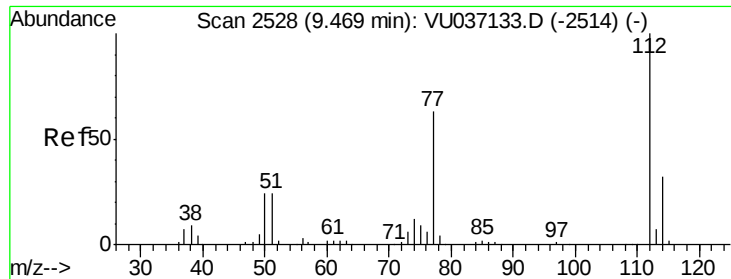
3/11/2020 3:32:21 PM



#58
Tetrachloroethene
Concen: 0.532 ug/l
RT: 8.58 min Scan# 2251
Delta R.T. -0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Tgt Ion	Ratio	Lower	Upper
164	100		
166	136.3	102.0	153.0
129	107.5	74.9	112.3
131	103.5	72.6	108.8





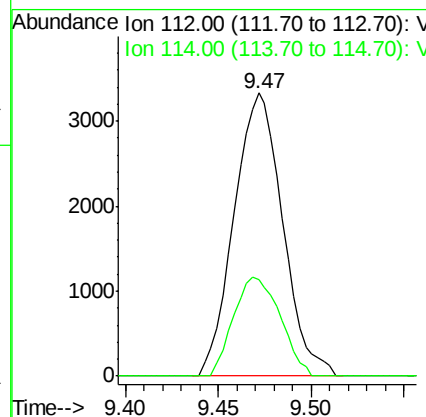
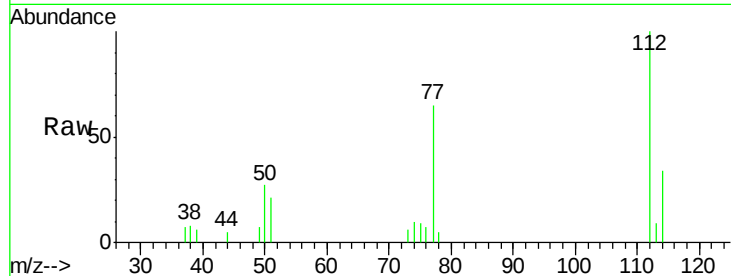
#59
Chlorobenzene
Concen: 0.520 ug/l
RT: 9.47 min Scan# 2529
Delta R.T. 0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2020

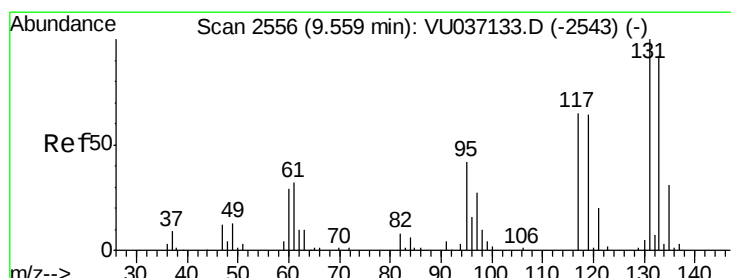
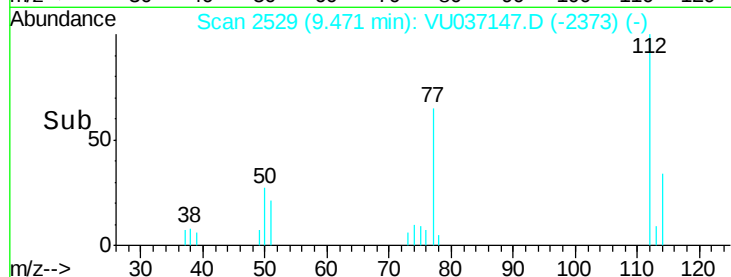
Tot Ion:112 Resp: 6079
Ion Ratio Lower Upper
112 100
114 33.9 25.8 38.8

Manual Integrations
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sam

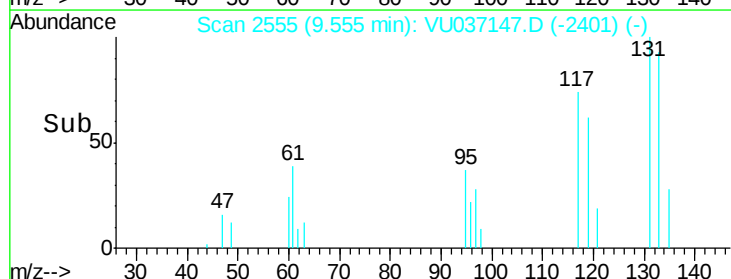
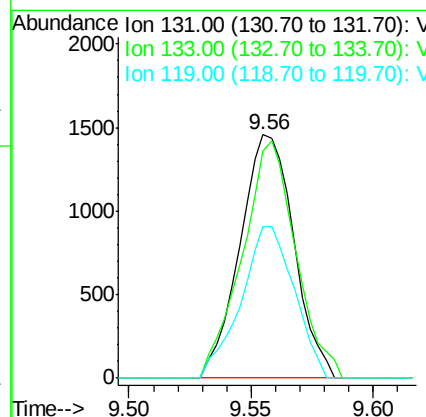
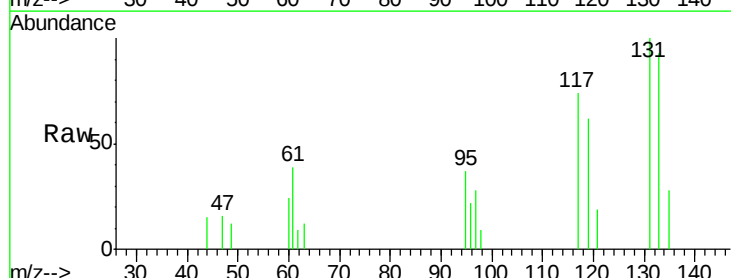


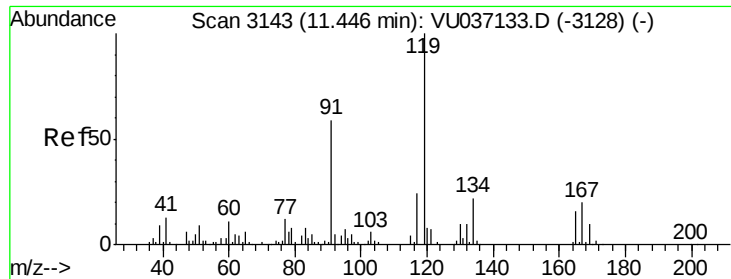
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#60
1,1,1,2-Tetrachloroethane
Concen: 0.521 ug/l
RT: 9.56 min Scan# 2555
Delta R.T. -0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Tgt Ion:131 Resp: 2230
Ion Ratio Lower Upper
131 100
133 96.4 76.4 114.6
119 61.4 56.6 85.0





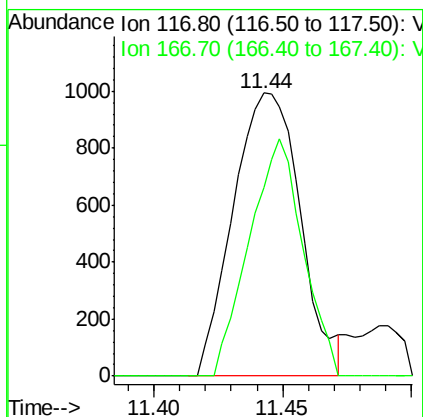
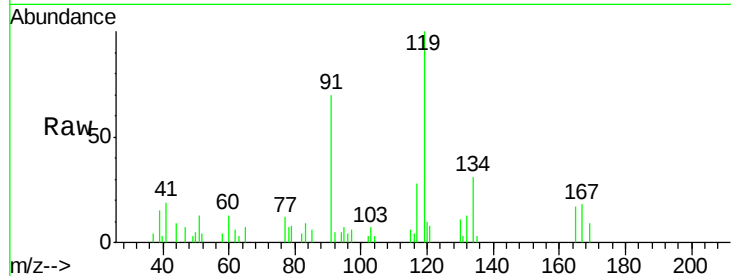
#61
 Pentachloroethane
 Concen: 0.553 ug/l
 RT: 11.44 min Scan# 3142
 Delta R.T. -0.00 min
 Lab File: VU037147.D
 Acq: 10 Mar 2020 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT1-2020

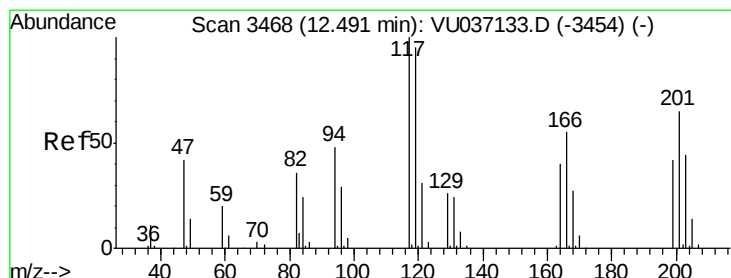
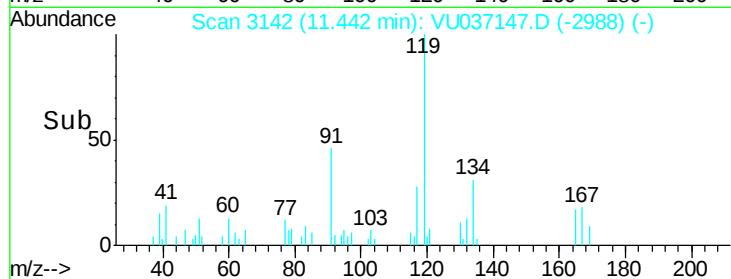
Tot Ion:117 Resp: 1807
 Ion Ratio Lower Upper
 117 100
 167 66.9 66.7 100.1

Manual Integrations
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Sam

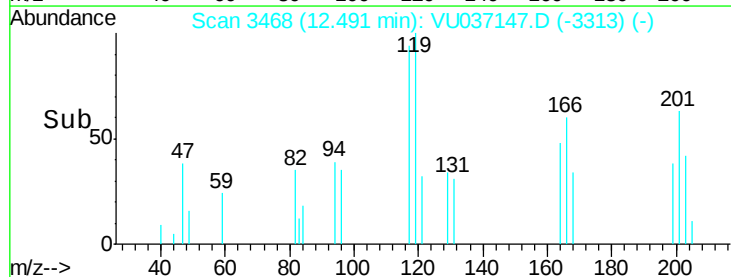
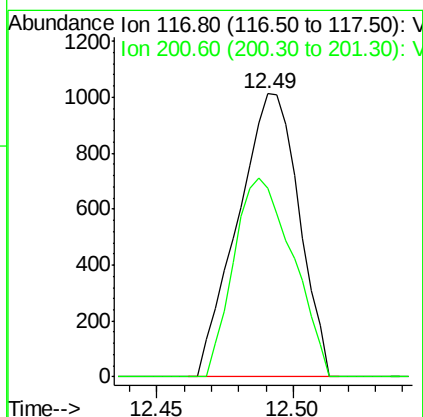
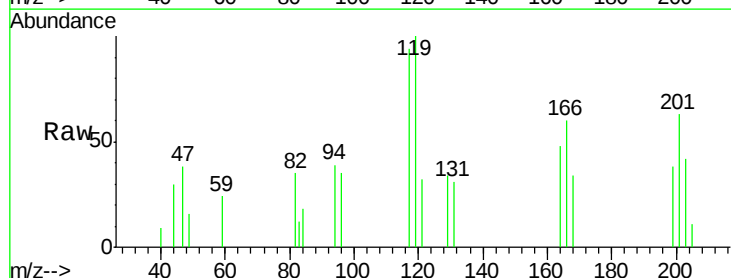


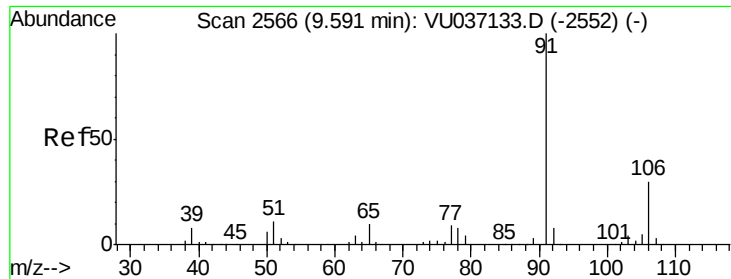
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#62
 Hexachloroethane
 Concen: 0.450 ug/l
 RT: 12.49 min Scan# 3468
 Delta R.T. -0.00 min
 Lab File: VU037147.D
 Acq: 10 Mar 2020 12:10

Tgt Ion:117 Resp: 1574
 Ion Ratio Lower Upper
 117 100
 201 68.3 65.0 97.4





#63

Ethyl Benzene

Concen: 0.439 ug/l

RT: 9.59 min Scan# 2566

Delta R.T. -0.00 min

Lab File: VU037147.D

Acq: 10 Mar 2020 12:10

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2020

Tot Ion: 91 Resp: 8758

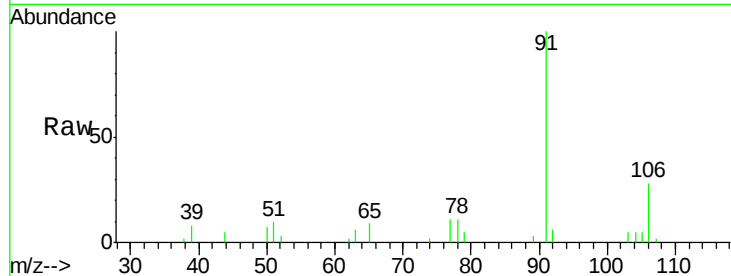
Ion Ratio Lower Upper

91 100

106 28.4 26.0 39.0

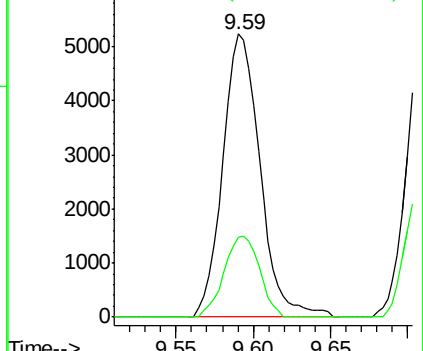
Manual Integrations
APPROVED

Sam

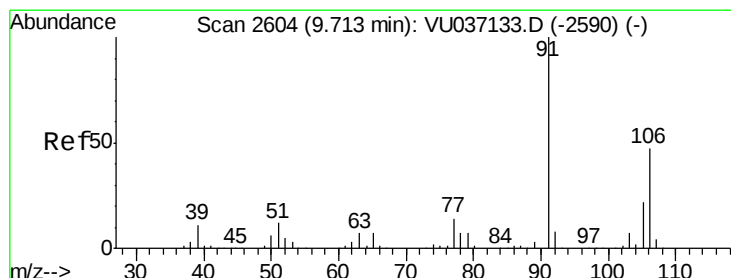
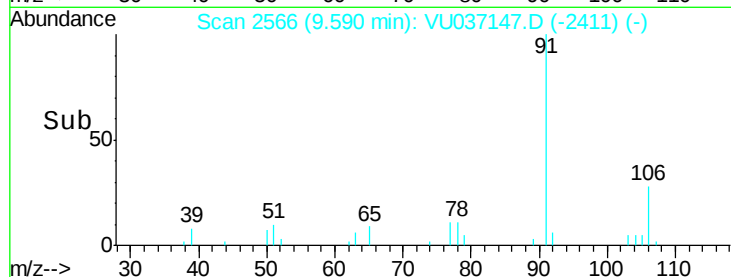


Abundance Ion 91.00 (90.70 to 91.70): VU037133.D (-2552) (-)

Ion 106.00 (105.70 to 106.70): VU037133.D (-2552) (-)



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#64

m/p-Xylenes

Concen: 0.870 ug/l

RT: 9.72 min Scan# 2605

Delta R.T. 0.00 min

Lab File: VU037147.D

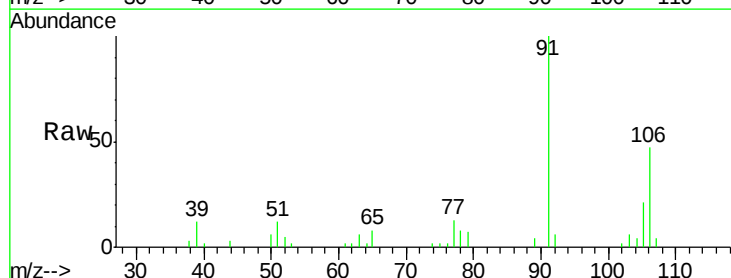
Acq: 10 Mar 2020 12:10

Tgt Ion: 106 Resp: 6572

Ion Ratio Lower Upper

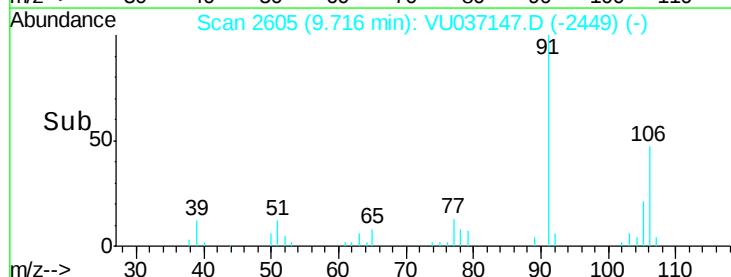
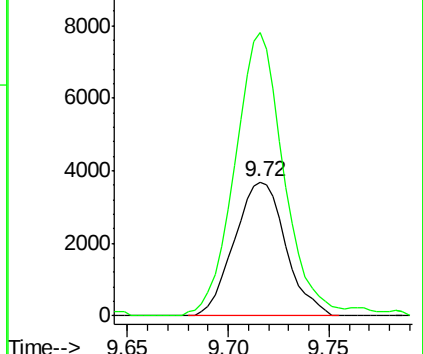
106 100

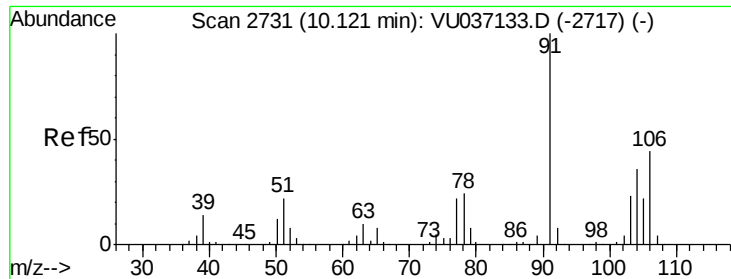
91 201.3 158.2 237.4



Abundance Ion 106.00 (105.70 to 106.70): VU037133.D (-2590) (-)

Ion 91.00 (90.70 to 91.70): VU037133.D (-2590) (-)





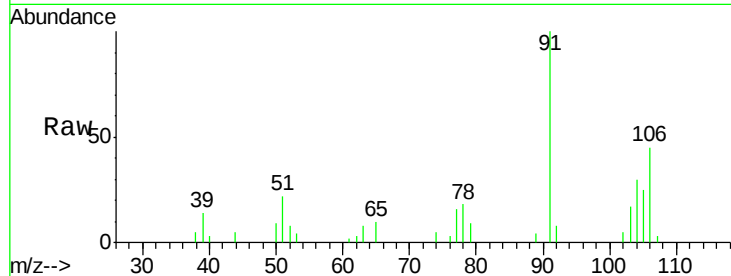
#65
o-Xylene
Concen: 0.412 ug/l
RT: 10.12 min Scan# 2731
Delta R.T. -0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2020

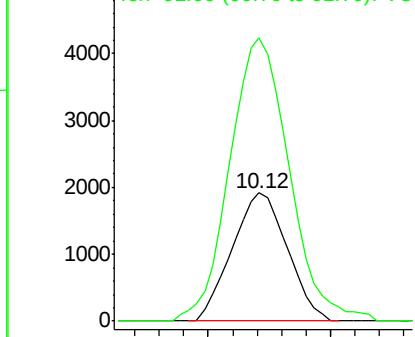
Tot Ion:106 Resp: 3006
Ion Ratio Lower Upper
106 100
91 238.8 104.3 312.9

Manual Integrations
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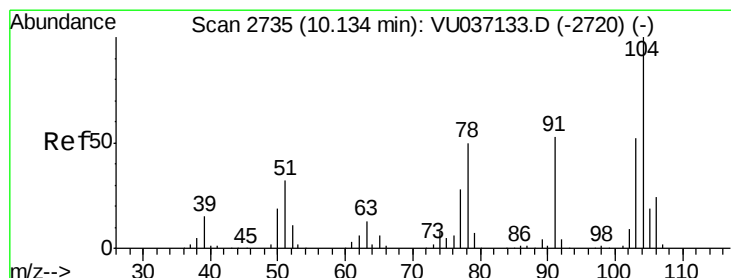
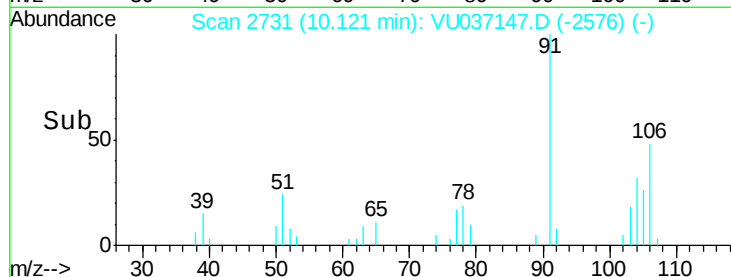
Sam



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

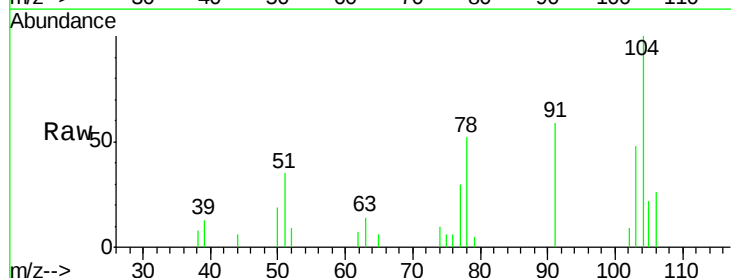


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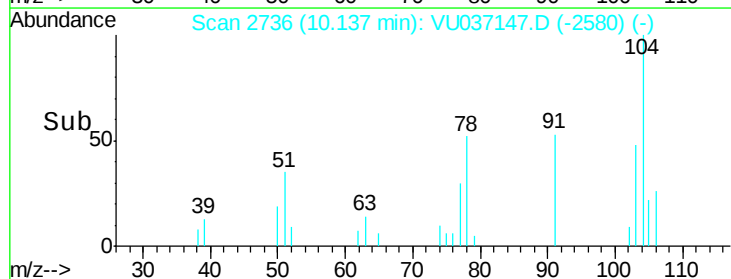
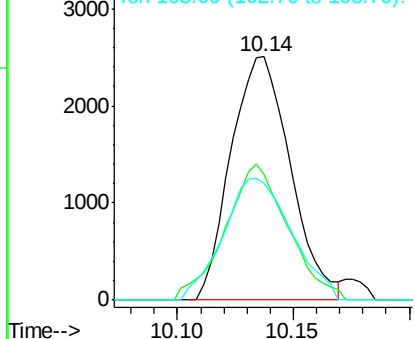


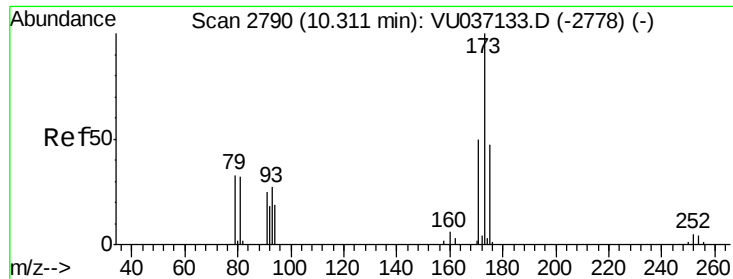
#66
Styrene
Concen: 0.375 ug/l
RT: 10.14 min Scan# 2736
Delta R.T. 0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Tgt Ion:104 Resp: 4475
Ion Ratio Lower Upper
104 100
78 58.6 38.6 57.8#
103 57.5 44.4 66.6



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VU0
Ion 103.00 (102.70 to 103.70): V





#67

Bromoform

Concen: 0.423 ug/l

RT: 10.31 min Scan# 2790

Delta R.T. -0.00 min

Lab File: VU037147.D

Acq: 10 Mar 2020 12:10

Instrument :

MSVOA_U

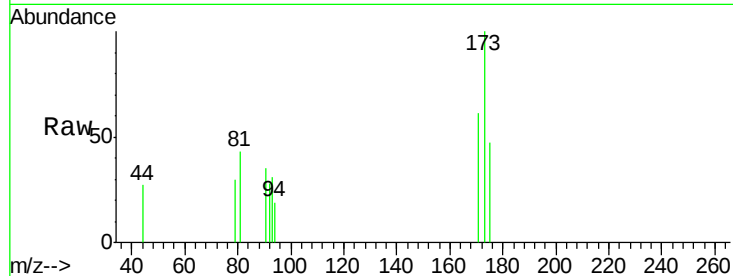
ClientSampleId :

LOQ-WATER-02-QT1-2020

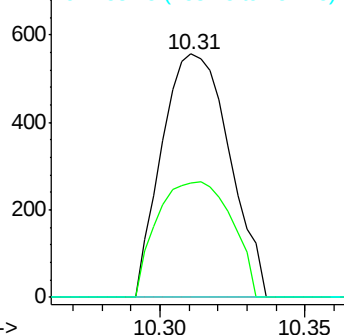
Tot Ion	Ratio	Lower	Upper
173	100		
175	52.2	38.3	57.5
254	0.0	6.6	9.8#

Manual Integrations
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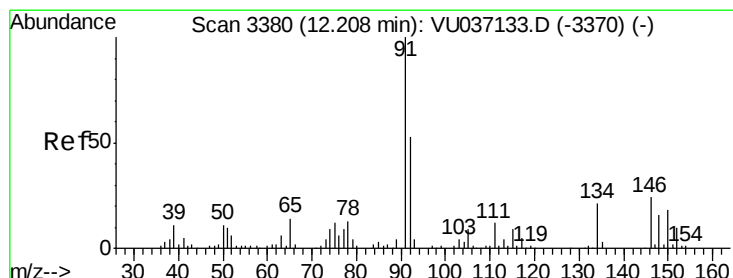
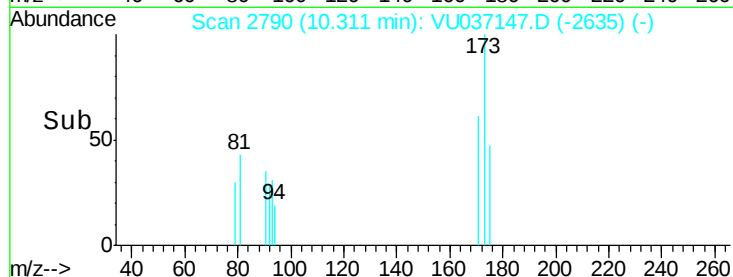
sam



Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V



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#68

1,2-Dichlorobenzene-d4

Concen: 0.939 ug/l

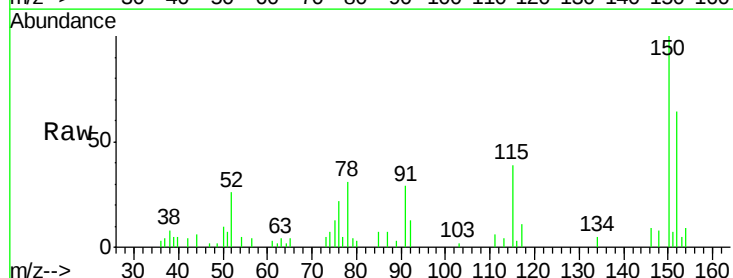
RT: 12.21 min Scan# 3381

Delta R.T. 0.00 min

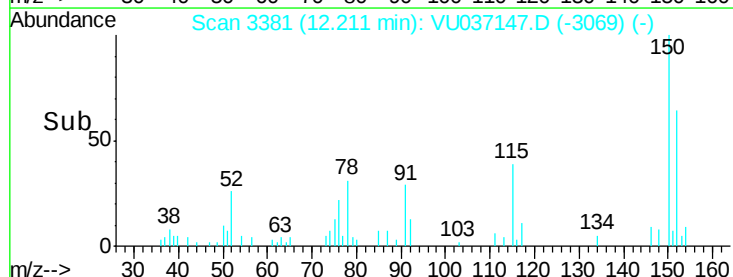
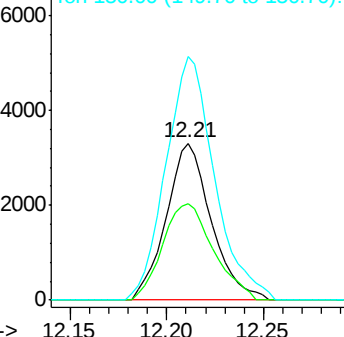
Lab File: VU037147.D

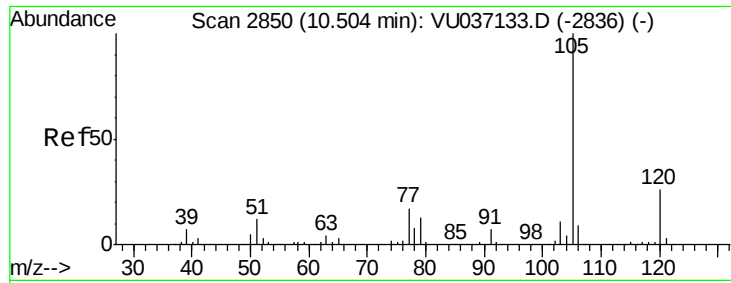
Acq: 10 Mar 2020 12:10

Tgt Ion	Ratio	Lower	Upper
152	100		
115	69.5	0.0	241.8
150	168.5	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





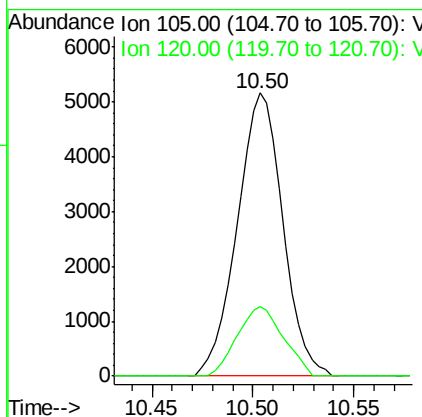
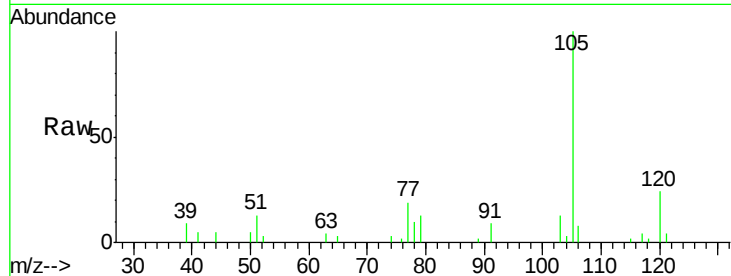
#69
Isopropylbenzene
Concen: 0.410 ug/l
RT: 10.50 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2020

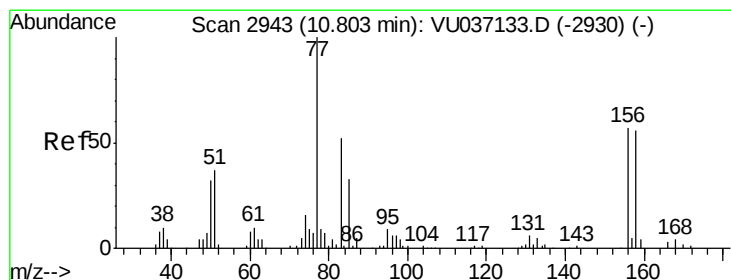
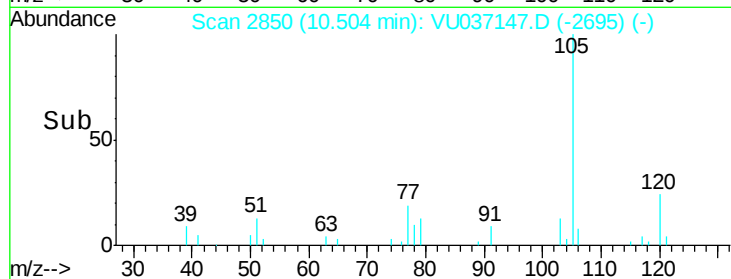
Tot Ion	Ratio	Lower	Upper
105	100		
120	24.9	13.6	40.7

Manual Integrations
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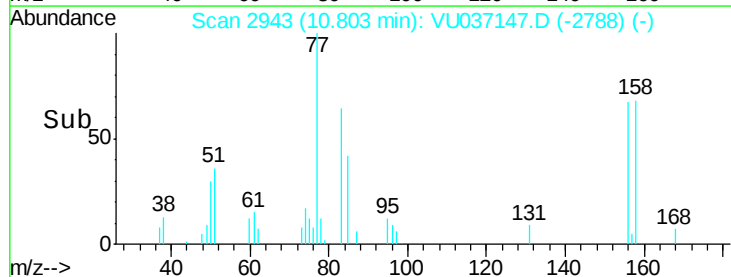
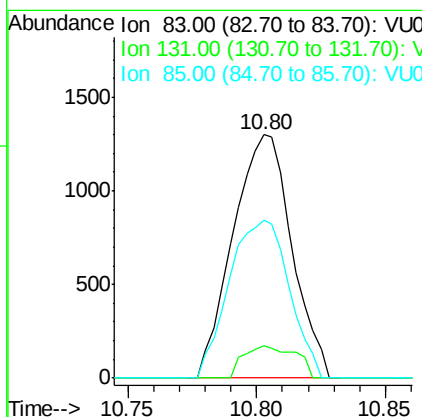
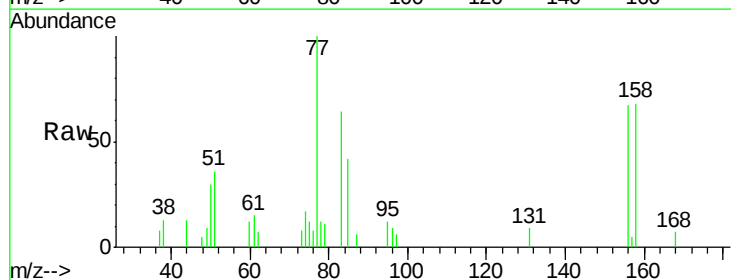


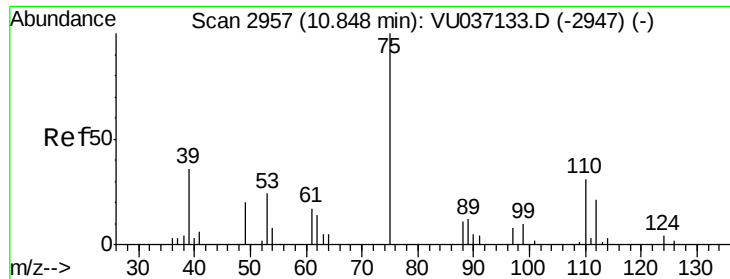
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#70
1,1,2,2-Tetrachloroethane
Concen: 0.481 ug/l
RT: 10.80 min Scan# 2943
Delta R.T. -0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Tgt Ion	Ratio	Lower	Upper
83	100		
131	11.8	7.8	11.8#
85	66.2	53.2	79.8





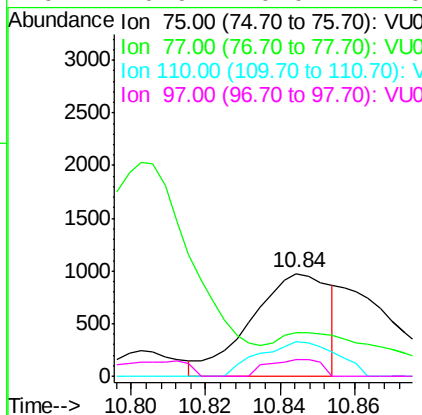
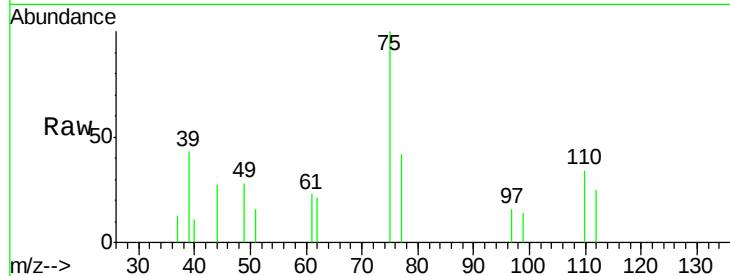
#71
1,2,3-Trichloropropane
Concen: 0.412 ug/l m
RT: 10.84 min Scan# 2956
Delta R.T. -0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2020

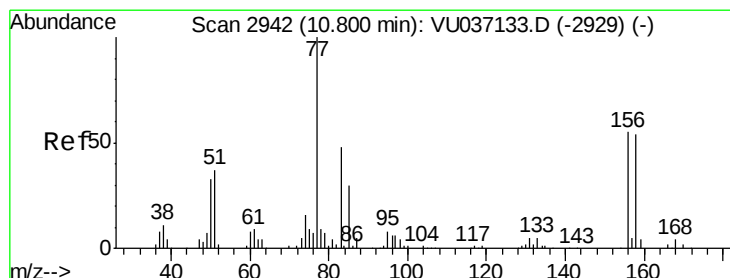
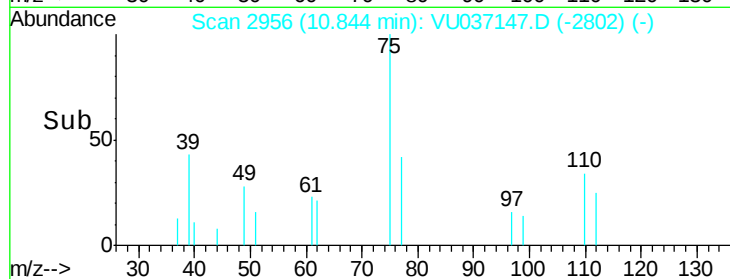
Tot Ion	Ion	Ratio	Lower	Upper
75	75	100		
77	77	58.6	0.0	129.6
110	110	33.0	0.0	77.4
97	97	10.9	0.0	42.0

Manual Integrations
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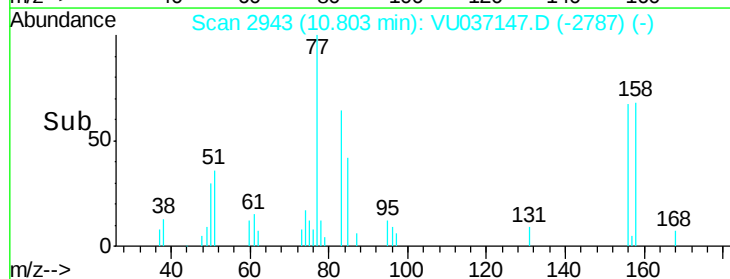
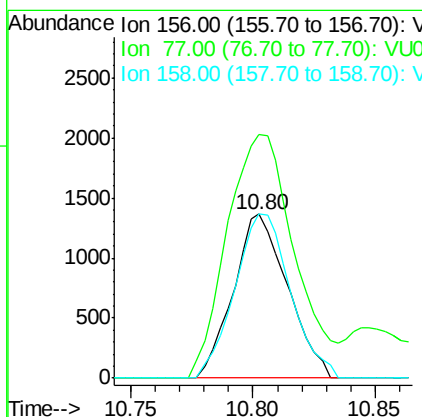
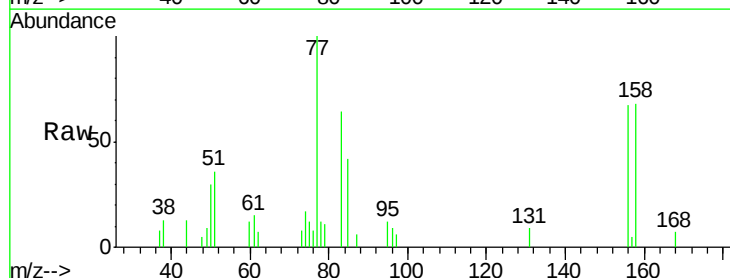


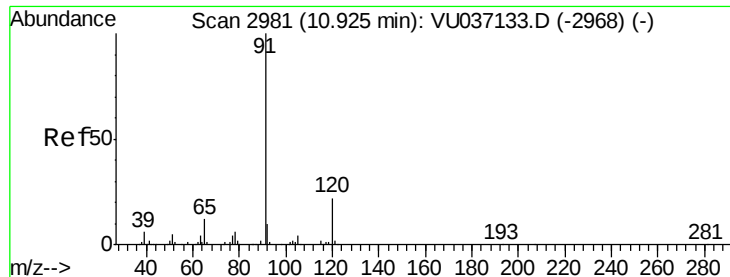
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#72
Bromobenzene
Concen: 0.438 ug/l
RT: 10.80 min Scan# 2943
Delta R.T. 0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Tgt Ion	Ion	Ratio	Lower	Upper
156	156	100		
77	77	185.1	0.0	306.6
158	158	102.8	0.0	192.0





#73

n-propylbenzene

Concen: 0.386 ug/l

RT: 10.92 min Scan# 2981

Delta R.T. -0.00 min

Lab File: VU037147.D

Acq: 10 Mar 2020 12:10

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2020

Tot Ion:120 Resp: 2032

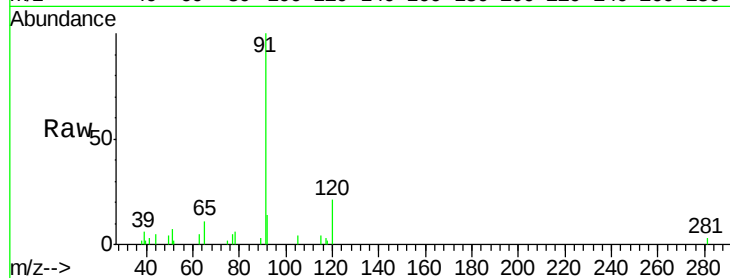
Ion Ratio Lower Upper

120 100

91 501.3 329.5 494.3#

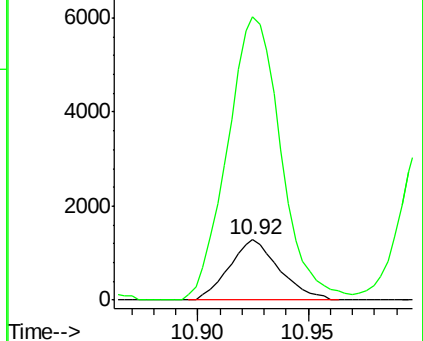
Manual Integrations
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sam

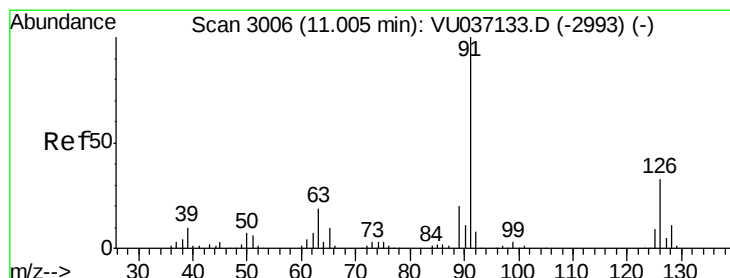
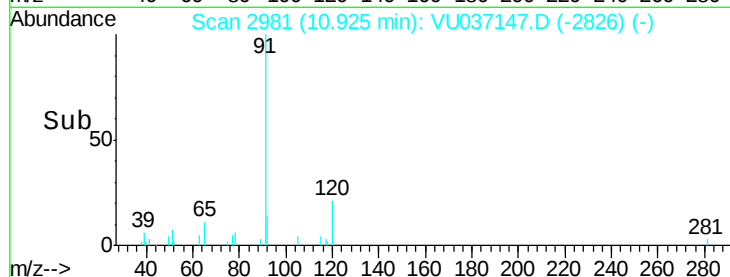


Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



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#74

2-Chlorotoluene

Concen: 0.361 ug/l

RT: 11.01 min Scan# 3007

Delta R.T. 0.00 min

Lab File: VU037147.D

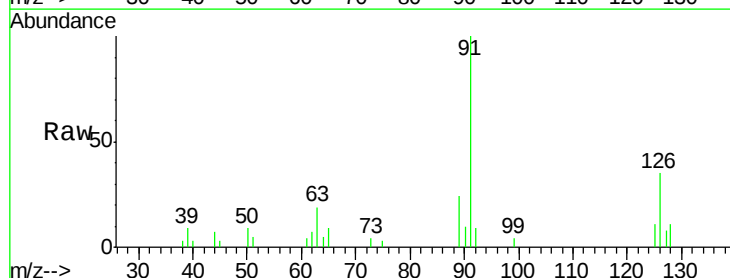
Acq: 10 Mar 2020 12:10

Tgt Ion:126 Resp: 1723

Ion Ratio Lower Upper

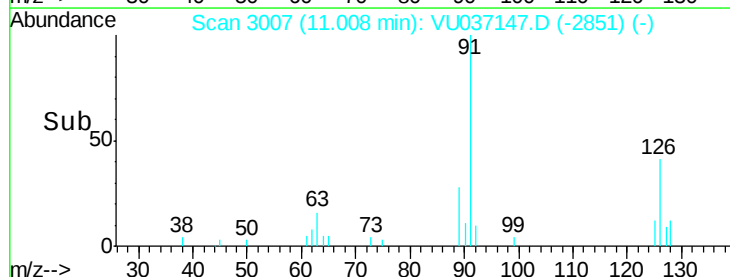
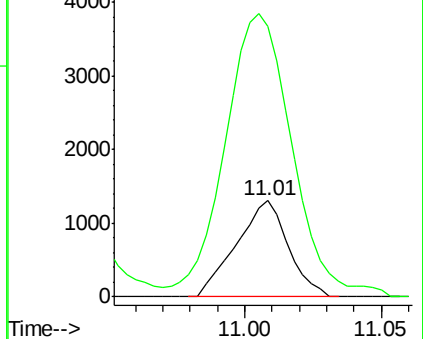
126 100

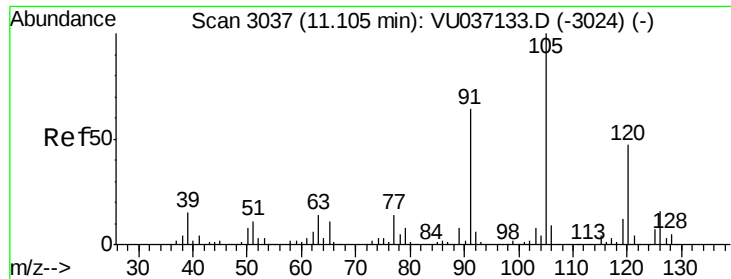
91 382.0 0.0 567.4



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: 0.420 ug/l

RT: 11.11 min Scan# 3038

Delta R.T. 0.00 min

Lab File: VU037147.D

Acq: 10 Mar 2020 12:10

Instrument :

MSVOA_U

ClientSampleId :

LOQ-WATER-02-QT1-2020

Tot Ion:105 Resp: 7230

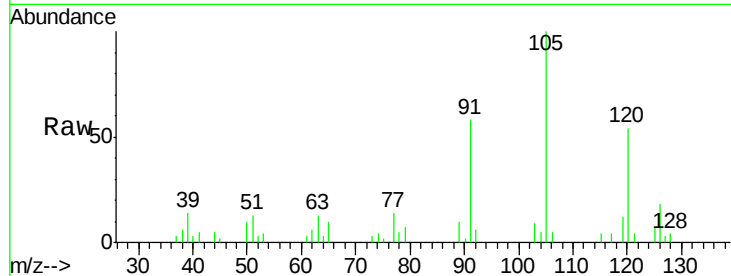
Ion Ratio Lower Upper

105 100

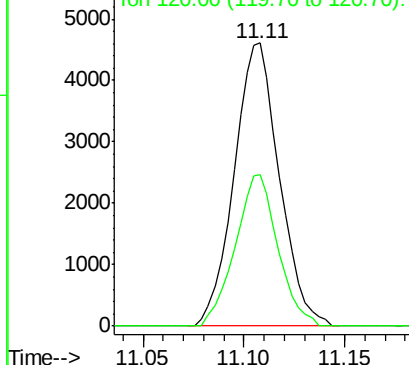
120 50.3 39.8 59.8

Manual Integrations
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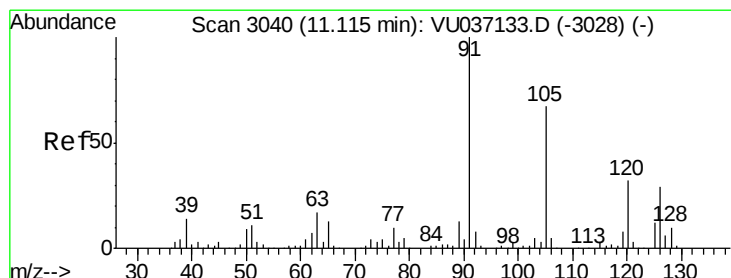
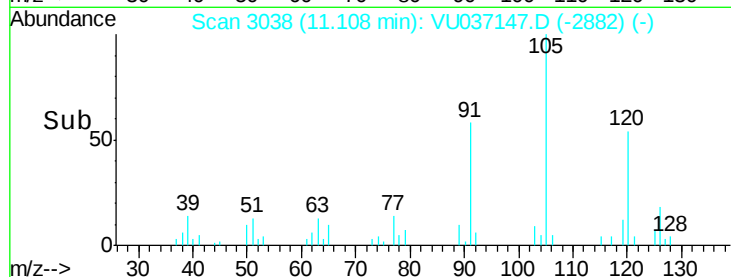
sam



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V



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#76

4-Chlorotoluene

Concen: 0.411 ug/l

RT: 11.12 min Scan# 3041

Delta R.T. 0.00 min

Lab File: VU037147.D

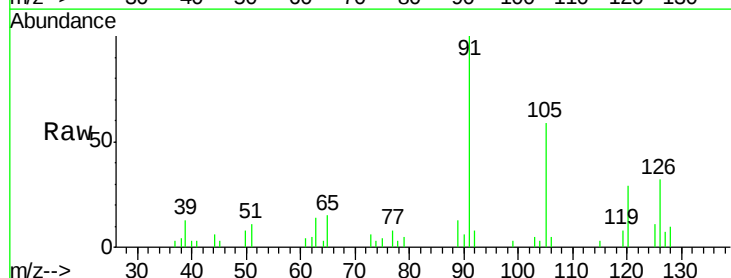
Acq: 10 Mar 2020 12:10

Tgt Ion:126 Resp: 1974

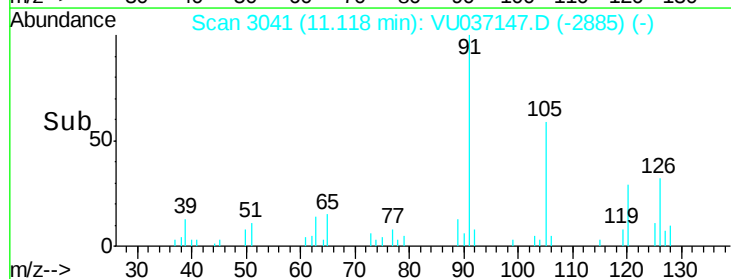
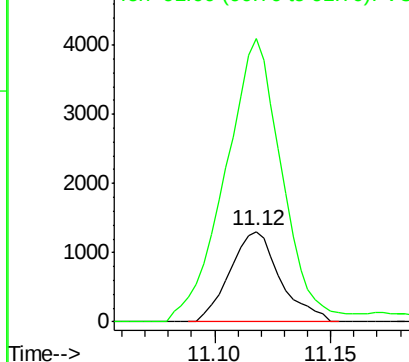
Ion Ratio Lower Upper

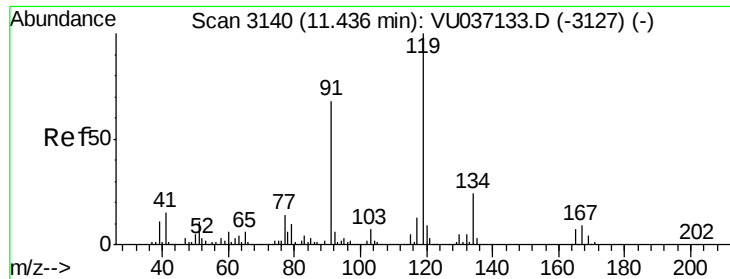
126 100

91 352.4 0.0 633.0



Abundance Ion 126.00 (125.70 to 126.70): V
Ion 91.00 (90.70 to 91.70): VU0





#77

tert-Butylbenzene

Concen: 0.420 ug/l

RT: 11.44 min Scan# 3141

Delta R.T. 0.00 min

Lab File: VU037147.D

Acq: 10 Mar 2020 12:10

Instrument :

MSVOA_U

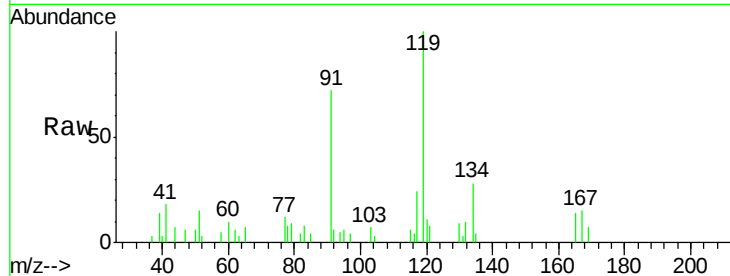
ClientSampleId :

LOQ-WATER-02-QT1-2020

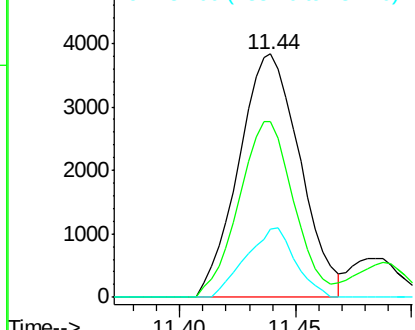
Tot Ion:	119	Resp:	7038
Ion Ratio	Lower	Upper	
119	100		
91	64.6	29.3	87.8
134	23.1	19.0	28.4

Manual Integrations
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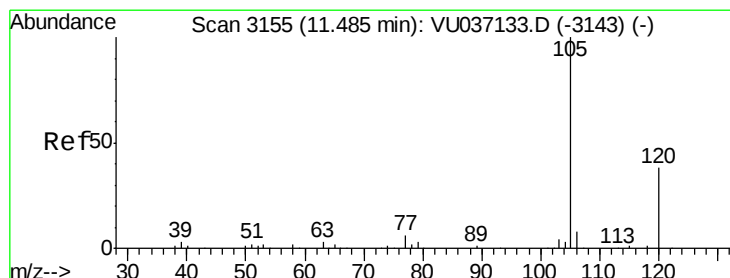
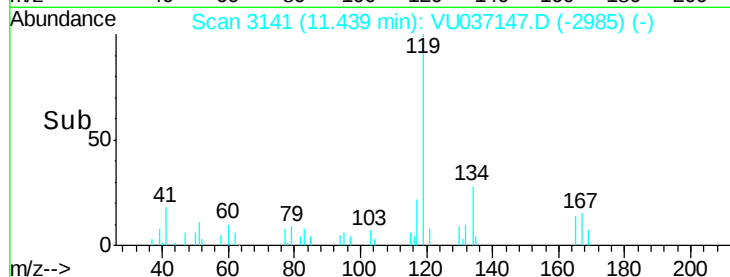
Sam



Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V



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#78

1,2,4-Trimethylbenzene

Concen: 0.390 ug/l

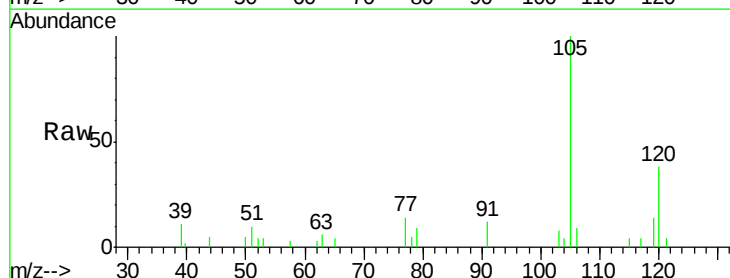
RT: 11.48 min Scan# 3155

Delta R.T. -0.00 min

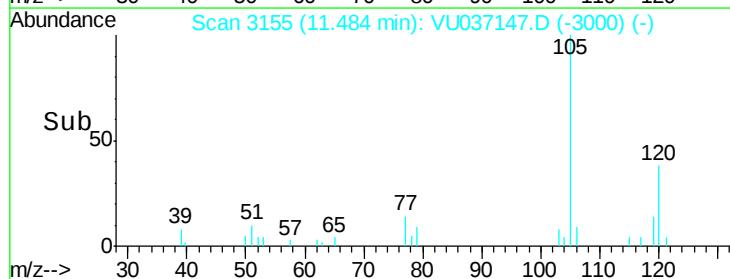
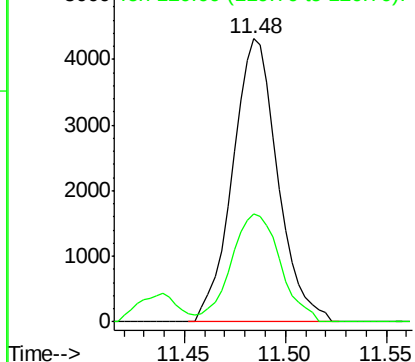
Lab File: VU037147.D

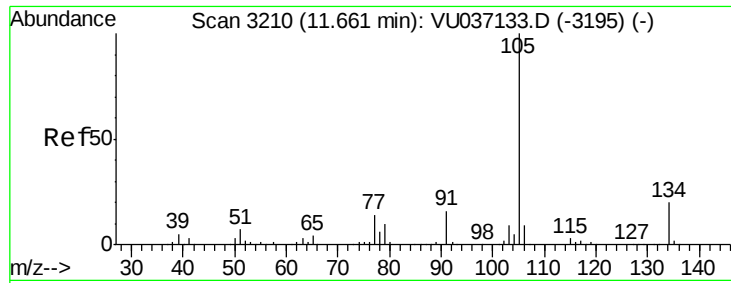
Acq: 10 Mar 2020 12:10

Tgt Ion:	105	Resp:	6768
Ion Ratio	Lower	Upper	
105	100		
120	41.6	23.3	69.8



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





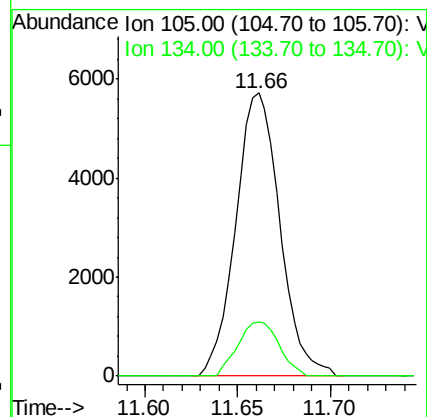
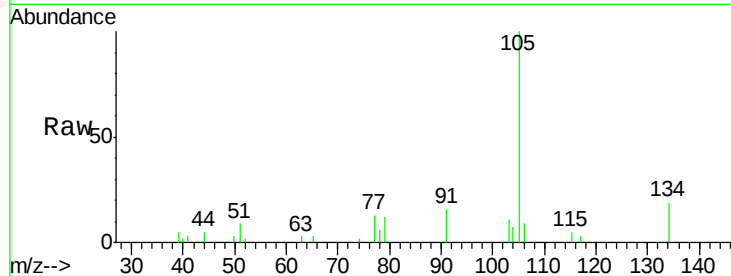
#79
 sec-Butylbenzene
 Concen: 0.414 ug/l
 RT: 11.66 min Scan# 3210
 Delta R.T. -0.00 min
 Lab File: VU037147.D
 Acq: 10 Mar 2020 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT1-2020

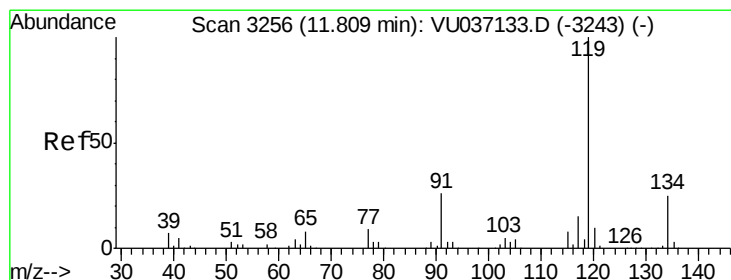
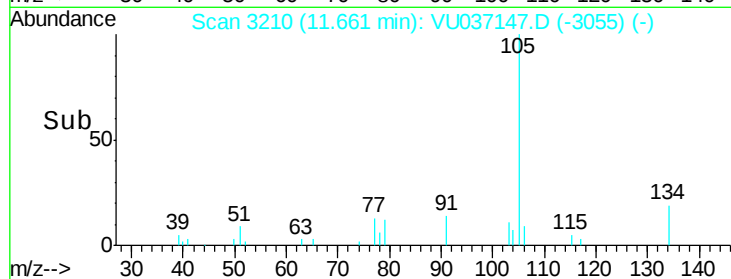
Tot Ion:105 Resp: 9454
 Ion Ratio Lower Upper
 105 100
 134 17.9 16.0 24.0

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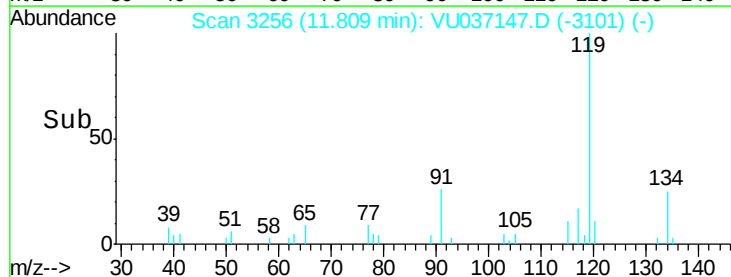
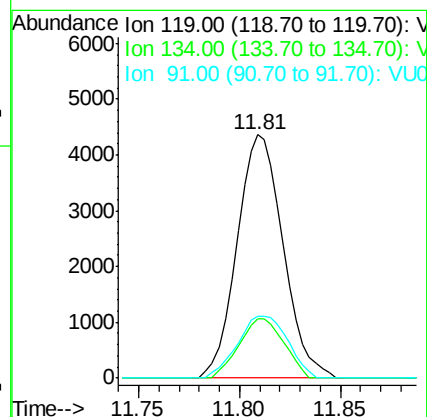
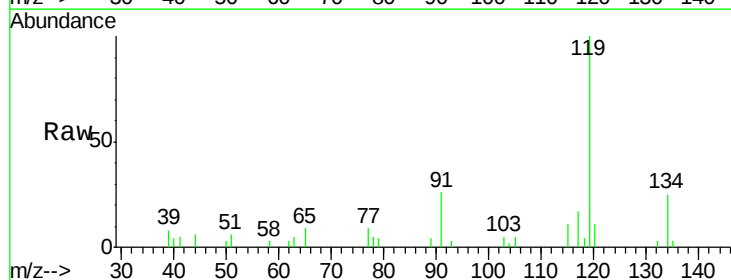


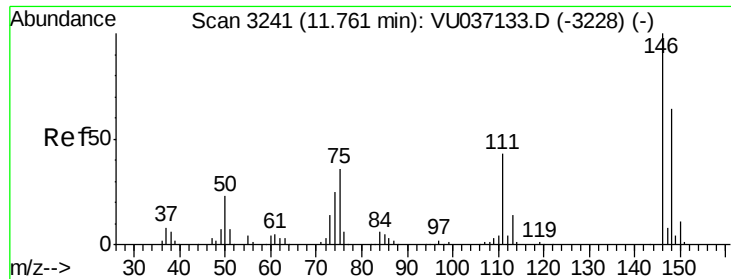
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#81
 p-Isopropyltoluene
 Concen: 0.387 ug/l
 RT: 11.81 min Scan# 3256
 Delta R.T. -0.00 min
 Lab File: VU037147.D
 Acq: 10 Mar 2020 12:10

Tgt Ion:119 Resp: 6967
 Ion Ratio Lower Upper
 119 100
 134 23.9 21.4 32.0
 91 27.8 18.3 27.5#





#82

1,3-Dichlorobenzene

Concen: 0.497 ug/l

RT: 11.77 min Scan# 3243

Delta R.T. 0.01 min

Lab File: VU037147.D

Acq: 10 Mar 2020 12:10

Instrument :

MSVOA_U

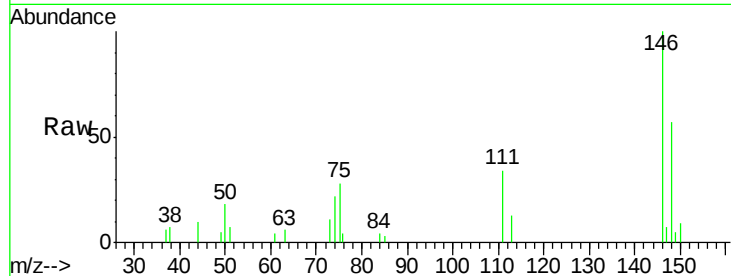
ClientSampleId :

LOQ-WATER-02-QT1-2020

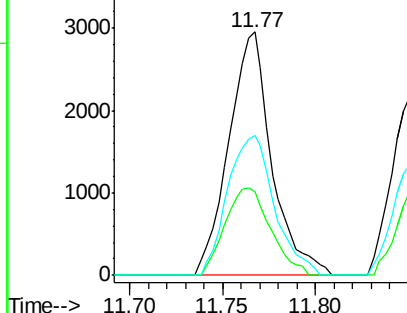
Tot Ion:	146	Resp:	4738
Ion Ratio	Lower	Upper	
146	100		
111	38.0	32.2	48.2
148	62.6	51.4	77.2

Manual Integrations
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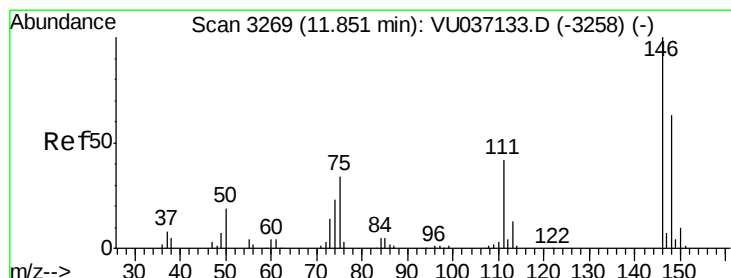
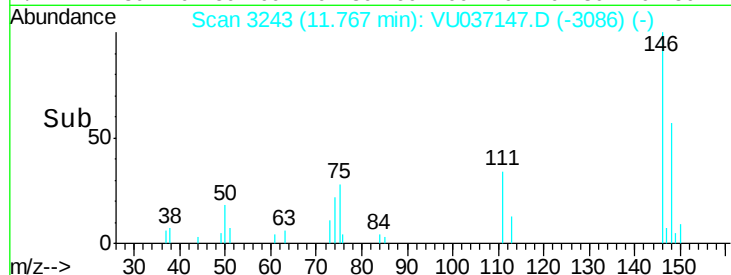
sam



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



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#83

1,4-Dichlorobenzene

Concen: 0.442 ug/l

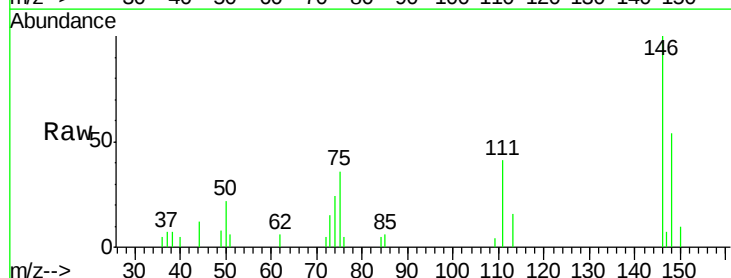
RT: 11.86 min Scan# 3271

Delta R.T. 0.01 min

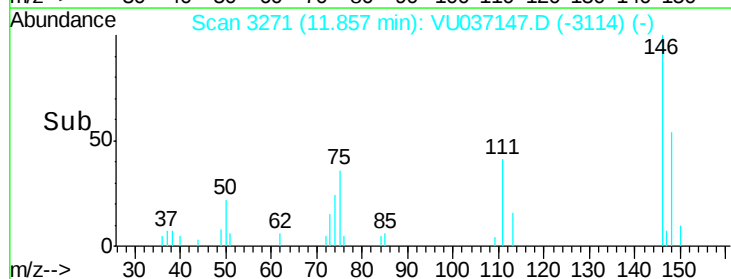
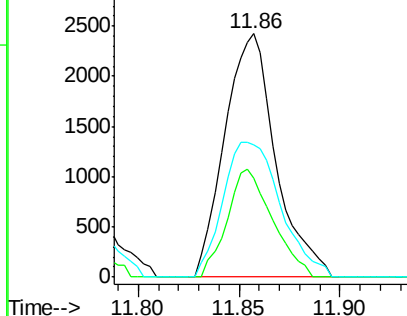
Lab File: VU037147.D

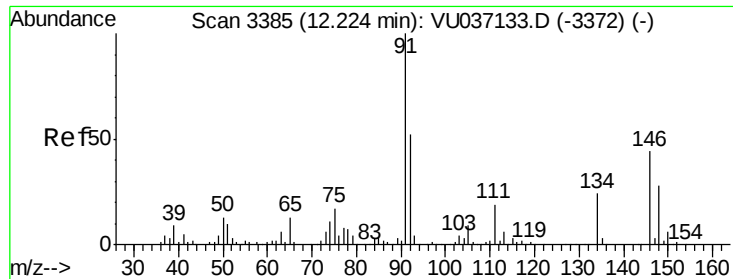
Acq: 10 Mar 2020 12:10

Tgt Ion:	146	Resp:	4268
Ion Ratio	Lower	Upper	
146	100		
111	39.6	30.5	45.7
148	62.9	51.0	76.4



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V





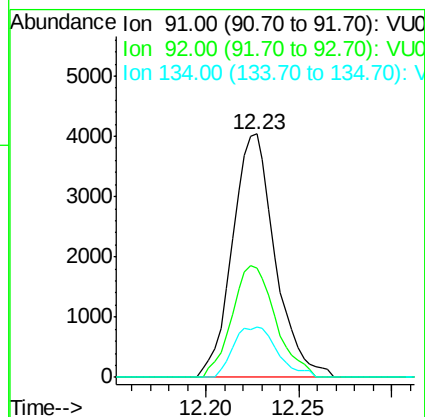
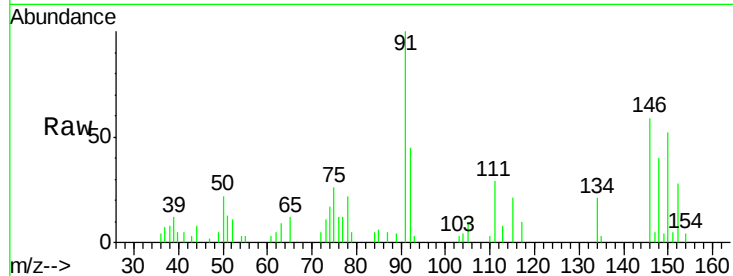
#84
n-Butylbenzene
Concen: 0.380 ug/l
RT: 12.23 min Scan# 3386
Delta R.T. 0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2020

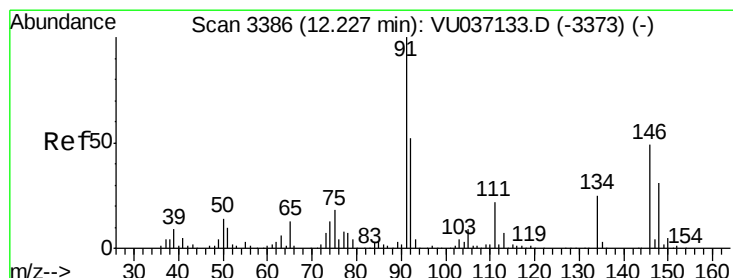
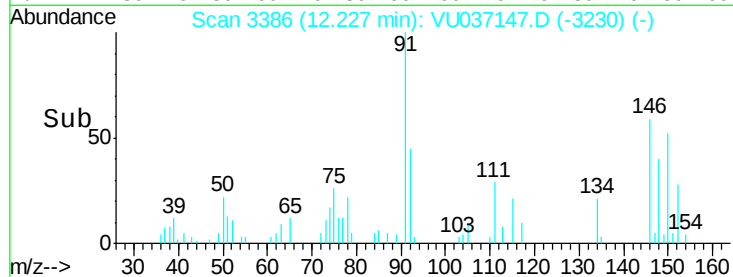
Tot Ion: 91 Resp: 6469
Ion Ratio Lower Upper
91 100
92 46.6 42.9 64.3
134 21.1 21.4 32.0#

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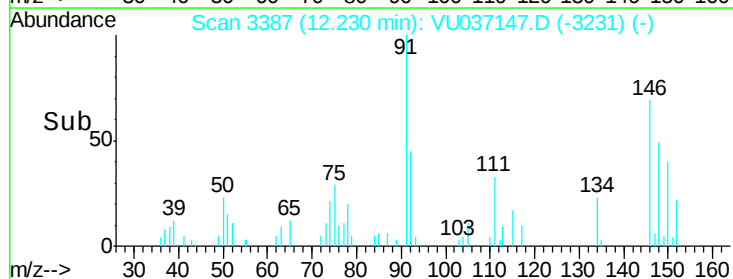
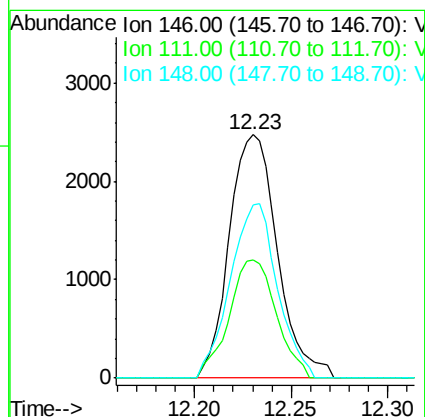
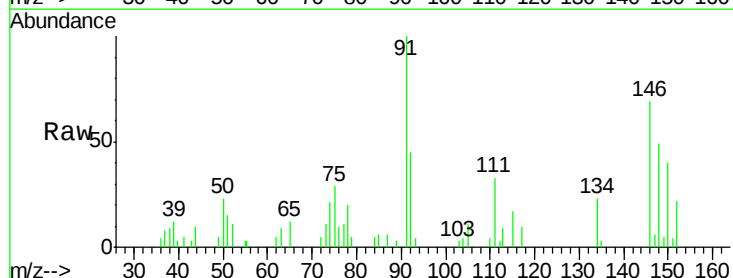


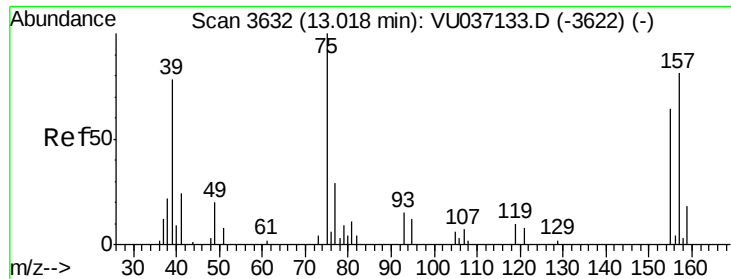
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#85
1,2-Dichlorobenzene
Concen: 0.465 ug/l
RT: 12.23 min Scan# 3387
Delta R.T. 0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Tgt Ion: 146 Resp: 4283
Ion Ratio Lower Upper
146 100
111 47.4 20.8 62.4
148 69.8 32.0 96.2





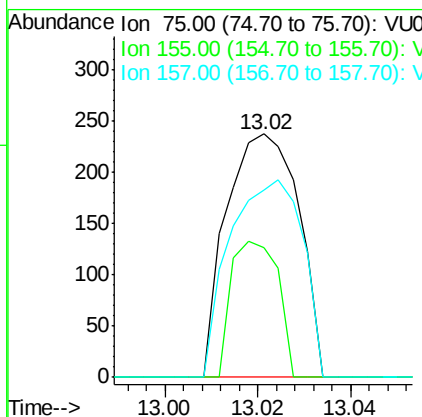
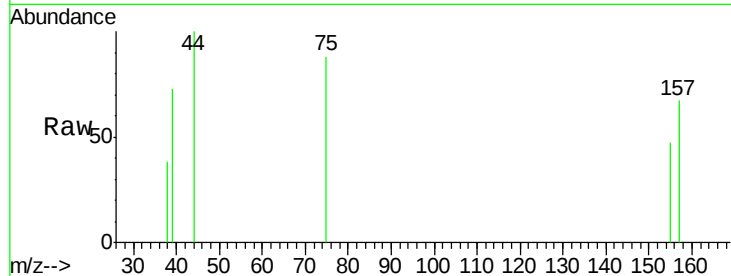
#86
 1,2-Dibromo-3-Chloropropane
 Concen: 0.340 ug/l
 RT: 13.02 min Scan# 3633
 Delta R.T. 0.00 min
 Lab File: VU037147.D
 Acq: 10 Mar 2020 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT1-2020

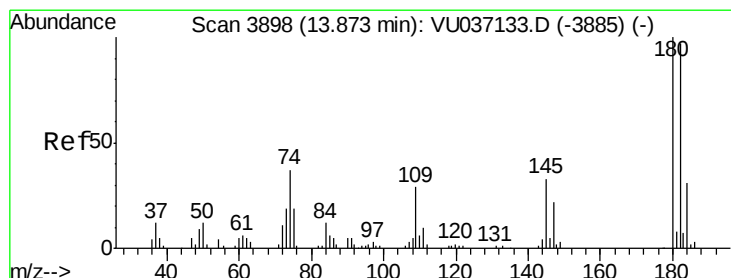
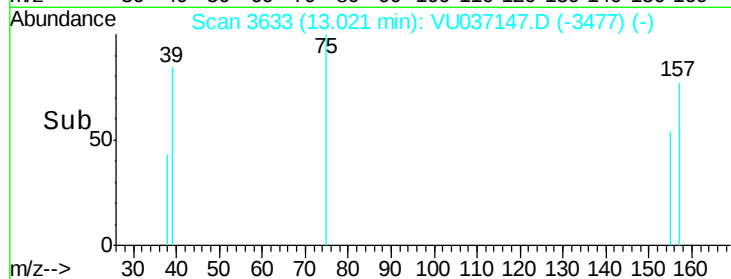
Tot Ion: 75 Resp: 257
 Ion Ratio Lower Upper
 75 100
 155 36.2 71.8 107.8#
 157 82.1 92.4 138.6#

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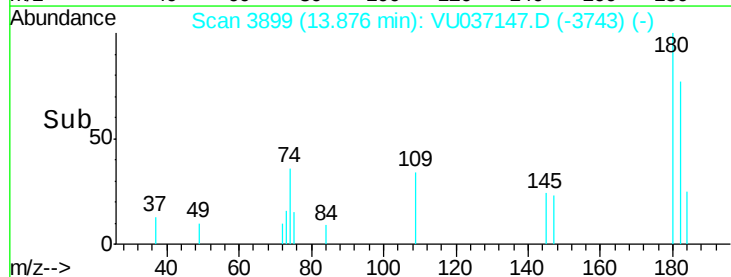
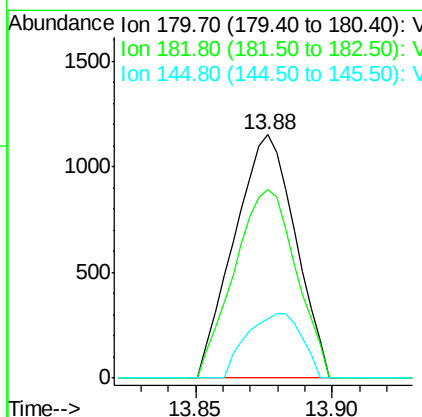
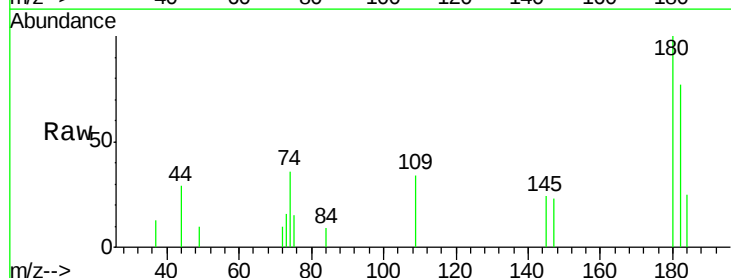


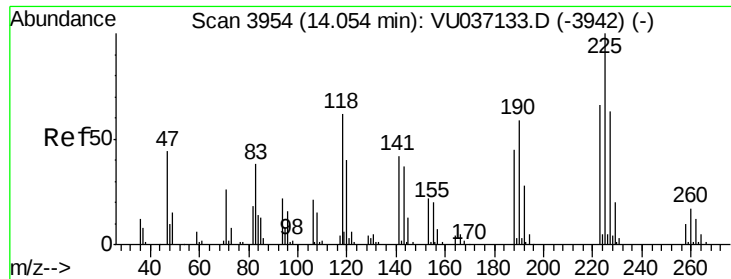
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#87
 1,2,4-Trichlorobenzene
 Concen: 0.385 ug/l
 RT: 13.88 min Scan# 3899
 Delta R.T. 0.00 min
 Lab File: VU037147.D
 Acq: 10 Mar 2020 12:10

Tgt Ion: 180 Resp: 1785
 Ion Ratio Lower Upper
 180 100
 182 78.8 75.9 113.9
 145 23.9 23.4 35.2





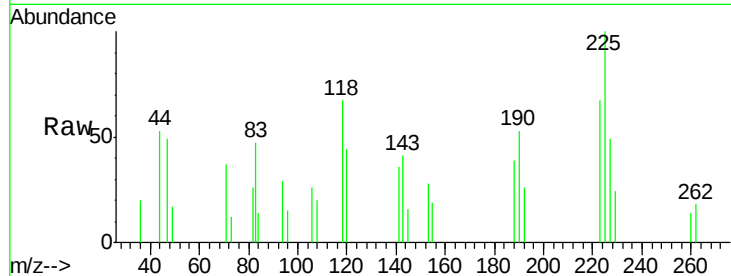
#88
Hexachlorobutadiene
Concen: 0.473 ug/l
RT: 14.05 min Scan# 3954
Delta R.T. -0.00 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Instrument :
MSVOA_U
ClientSampleId :
LOQ-WATER-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
225	100		
223	69.9	51.7	77.5
227	54.5	50.6	75.8

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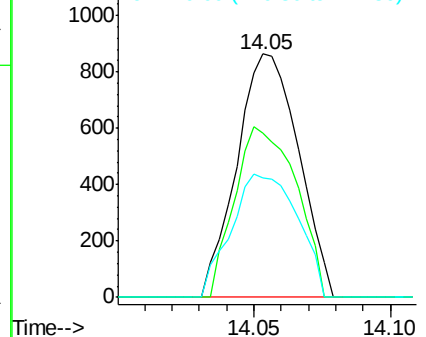


Abundance

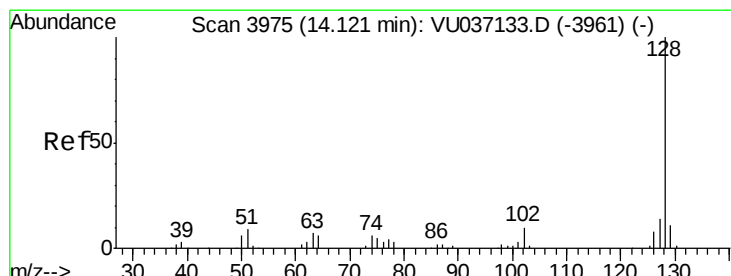
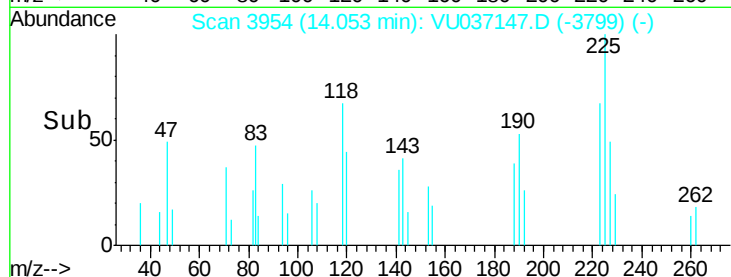
Ion 224.60 (224.30 to 225.30): V

Ion 222.60 (222.30 to 223.30): V

Ion 226.60 (226.30 to 227.30): V

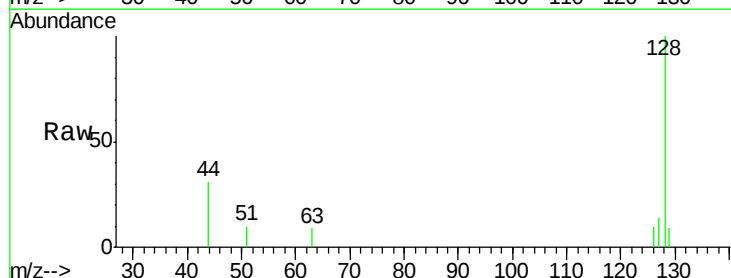


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#89
Naphthalene
Concen: 0.534 ug/l
RT: 14.13 min Scan# 3977
Delta R.T. 0.01 min
Lab File: VU037147.D
Acq: 10 Mar 2020 12:10

Tgt Ion	Ratio	Lower	Upper
128	100		
127	9.3	10.5	15.7#
129	8.0	8.7	13.1#

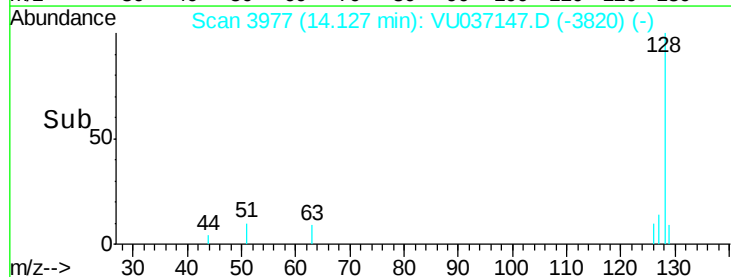
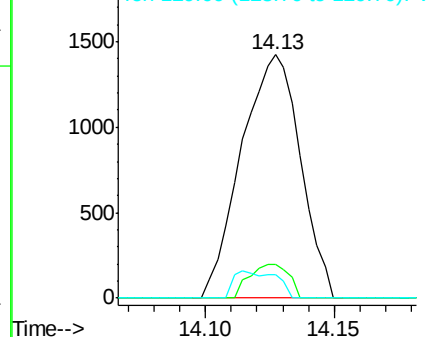


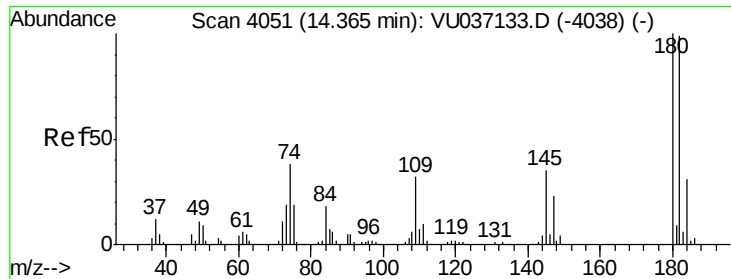
Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





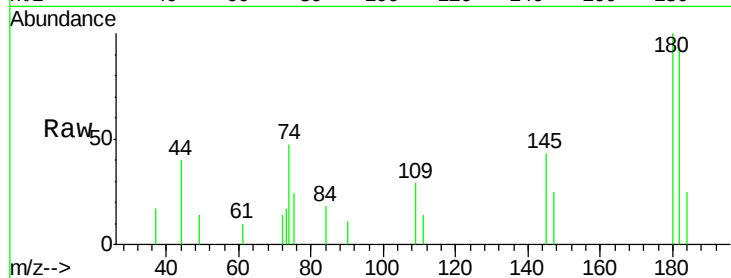
#90
 1,2,3-Trichlorobenzene
 Concen: 0.365 ug/l
 RT: 14.37 min Scan# 4052
 Delta R.T. 0.00 min
 Lab File: VU037147.D
 Acq: 10 Mar 2020 12:10

Instrument :
 MSVOA_U
 ClientSampleId :
 LOQ-WATER-02-QT1-2020

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.7	76.2	114.4
145	33.8	25.2	37.8

Manual Integrations
 APPROVED

sam



Abundance Ion 179.70 (179.40 to 180.40): V
 Ion 181.70 (181.40 to 182.40): V
 Ion 144.80 (144.50 to 145.50): V

3/11/2020 3:32:21 PM

