

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU033119\
 Data File : VU030577.D
 Acq On : 30 Mar 2019 17:27
 Operator : JC/SP
 Sample : K1560-09
 Misc : 25.0mL/MSVOA U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MDL-WATER-03-QT1-2019

Manual Integrations
 APPROVED

MMDadoda
 4/5/2019 2:38:53 PM

Quant Time: Mar 31 01:41:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U033119DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Sun Mar 31 01:11:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
1) Fluorobenzene	5.74	96	46678	1.00	ug/l	0.00
System Monitoring Compounds						
57) 4-Bromofluorobenzene	10.31	95	16487	0.93	ug/l	0.00
Spiked Amount 1.000			Recovery	=	93.00%	
68) 1,2-Dichlorobenzene-d4	11.86	152	16760	1.01	ug/l	0.00
Spiked Amount 1.000			Recovery	=	101.00%	
Target Compounds						
					Ovalue	
2) Dichlorodifluoromethane	1.21	85	5661	0.288	ug/l	96
3) Chloromethane	1.33	50	8331	0.328	ug/l	94
4) Vinyl Chloride	1.40	62	6399	0.292	ug/l	93
5) Bromomethane	1.63	94	2210	0.234	ug/l	94
6) Chloroethane	1.70	64	4033	0.319	ug/l #	87
7) Trichlorofluoromethane	1.88	101	7120	0.296	ug/l	99
8) 1,1,2-Trichloro-1,2,2-trif	2.28	101	4101	0.335	ug/l	94
9) 1,1-Dichloroethene	2.28	96	3719	0.302	ug/l	90
10) Iodomethane	2.40	142	807	0.555	ug/l #	51
11) Allyl Chloride	2.59	41	7160	0.267	ug/l	86
12) Acrylonitrile	2.94	53	2305	0.659	ug/l	97
13) Acetone	2.32	43	5947	1.816	ug/l	97
14) Carbon Disulfide	2.47	76	14246	0.317	ug/l	96
15) Methylene Chloride	2.69	84	5994	0.384	ug/l	95
16) trans-1,2-Dichloroethene	2.97	96	4213	0.303	ug/l	95
17) 1,1-Dichloroethane	3.43	63	8905	0.315	ug/l	97
18) 2-Butanone	4.30	43	3855	0.910	ug/l	97
19) Cyclohexane	4.98	56	6334m	0.266	ug/l	
20) Methylcyclohexane	6.41	83	5198	0.249	ug/l	93
21) 2,2-Dichloropropane	4.22	77	5635	0.260	ug/l #	88
22) cis-1,2-Dichloroethene	4.22	96	4086	0.274	ug/l	97
23) Diethyl Ether	2.10	59	3915	0.335	ug/l	93
24) tert-Butyl Alcohol	2.84	59	4204m	3.472	ug/l	
25) Methyl tert-Butyl Ether	3.00	73	11386	0.320	ug/l	92
26) Bromochloromethane	4.55	128	1744	0.298	ug/l	97
27) Chloroform	4.67	83	7974	0.302	ug/l	100
28) 1,1,1-Trichloroethane	4.91	97	6045	0.278	ug/l	93
29) 1,1-Dichloropropene	5.13	75	5490	0.281	ug/l	94
30) Carbon Tetrachloride	5.12	117	5114	0.281	ug/l	89
31) Isopropyl Ether	3.58	45	13177	0.280	ug/l	89
32) Ethyl-t-butyl ether	4.08	59	11012	0.294	ug/l	99
33) Tert-Amyl methyl ether	5.59	73	7433	0.248	ug/l	93
34) Propionitrile	4.35	54	778	0.676	ug/l #	67
35) Benzene	5.39	78	15353	0.266	ug/l #	85
36) 1,2-Dichloroethane	5.41	62	4916	0.279	ug/l #	94
37) Trichloroethene	6.19	130	3777	0.273	ug/l	92
38) 1,2-Dichloropropane	6.43	63	4797	0.300	ug/l	99
39) Methacrylonitrile	4.57	41	1128	0.217	ug/l #	64
41) Tetrahydrofuran	4.66	42	754	0.256	ug/l #	85
42) 1-Chlorobutane	5.06	56	7616	0.261	ug/l	83
43) Dibromomethane	6.56	93	2053	0.283	ug/l	96

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Quant Time: Mar 31 01:41:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA U\METHOD\524U033119DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Sun Mar 31 01:11:51 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

44) Bromodichloromethane	6.76	83	5710	0.297	ug/l #	81
45) 4-Methyl-2-Pentanone	7.47	43	12508	1.254	ug/l	98
46) t-1,4-Dichloro-2-butene	10.52	75	1702m	0.532	ug/l	
47) Methyl methacrylate	6.64	69	2858	0.465	ug/l #	92
49) Toluene	7.64	92	7422	0.235	ug/l	90
50) t-1,3-Dichloropropene	7.89	75	3861	0.240	ug/l #	87
51) cis-1,3-Dichloropropene	7.28	75	4962	0.248	ug/l	91
52) 1,1,2-Trichloroethane	8.07	97	2698	0.273	ug/l	94
53) 1,3-Dichloropropane	8.25	76	4719	0.261	ug/l	91
54) 2-Hexanone	8.38	43	9313	1.383	ug/l	85
55) Dibromochloromethane	8.48	129	3389	0.296	ug/l	84
56) 1,2-Dibromoethane	8.59	107	2737	0.298	ug/l	83
58) Tetrachloroethene	8.22	164	3683	0.297	ug/l	95
59) Chlorobenzene	9.13	112	9969	0.292	ug/l	94
60) 1,1,1,2-Tetrachloroethane	9.21	131	3730	0.294	ug/l	96
61) Pentachloroethane	11.10	117	2771	0.284	ug/l	92
62) Hexachloroethane	12.15	117	2368	0.278	ug/l	91
63) Ethyl Benzene	9.25	91	13986	0.230	ug/l	96
64) m/p-Xylenes	9.37	106	9804	0.442	ug/l	86
65) o-Xylene	9.78	106	5178	0.243	ug/l	97
66) Styrene	9.80	104	7320	0.203	ug/l #	88
67) Bromoform	9.96	173	1639	0.261	ug/l #	96
69) Isopropylbenzene	10.17	105	13388	0.230	ug/l	99
70) 1,1,2,2-Tetrachloroethane	10.46	83	4368	0.316	ug/l #	94
71) 1,2,3-Trichloropropane	10.50	75	2104	0.238	ug/l #	96
72) Bromobenzene	10.46	156	3676	0.264	ug/l	95
73) n-propylbenzene	10.59	120	3326	0.223	ug/l	91
74) 2-Chlorotoluene	10.66	126	3096	0.224	ug/l	99
75) 1,3,5-Trimethylbenzene	10.77	105	10515	0.215	ug/l	99
76) 4-Chlorotoluene	10.77	126	3456	0.246	ug/l	93
77) tert-Butylbenzene	11.10	119	11354	0.246	ug/l	95
78) 1,2,4-Trimethylbenzene	11.15	105	10737	0.222	ug/l	97
79) sec-Butylbenzene	11.32	105	13667	0.217	ug/l	100
81) p-Isopropyltoluene	11.48	119	10542	0.218	ug/l	99
82) 1,3-Dichlorobenzene	11.42	146	8297	0.298	ug/l	97
83) 1,4-Dichlorobenzene	11.51	146	7646	0.274	ug/l	92
84) n-Butylbenzene	11.89	91	10851	0.232	ug/l	97
85) 1,2-Dichlorobenzene	11.88	146	8024	0.306	ug/l	94
86) 1,2-Dibromo-3-Chloropropan	12.67	75	444	0.219	ug/l #	75
87) 1,2,4-Trichlorobenzene	13.51	180	4210	0.281	ug/l	93
88) Hexachlorobutadiene	13.69	225	2725	0.289	ug/l	96
89) Naphthalene	13.75	128	7626	0.292	ug/l #	92
90) 1,2,3-Trichlorobenzene	13.99	180	4247	0.299	ug/l	92

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

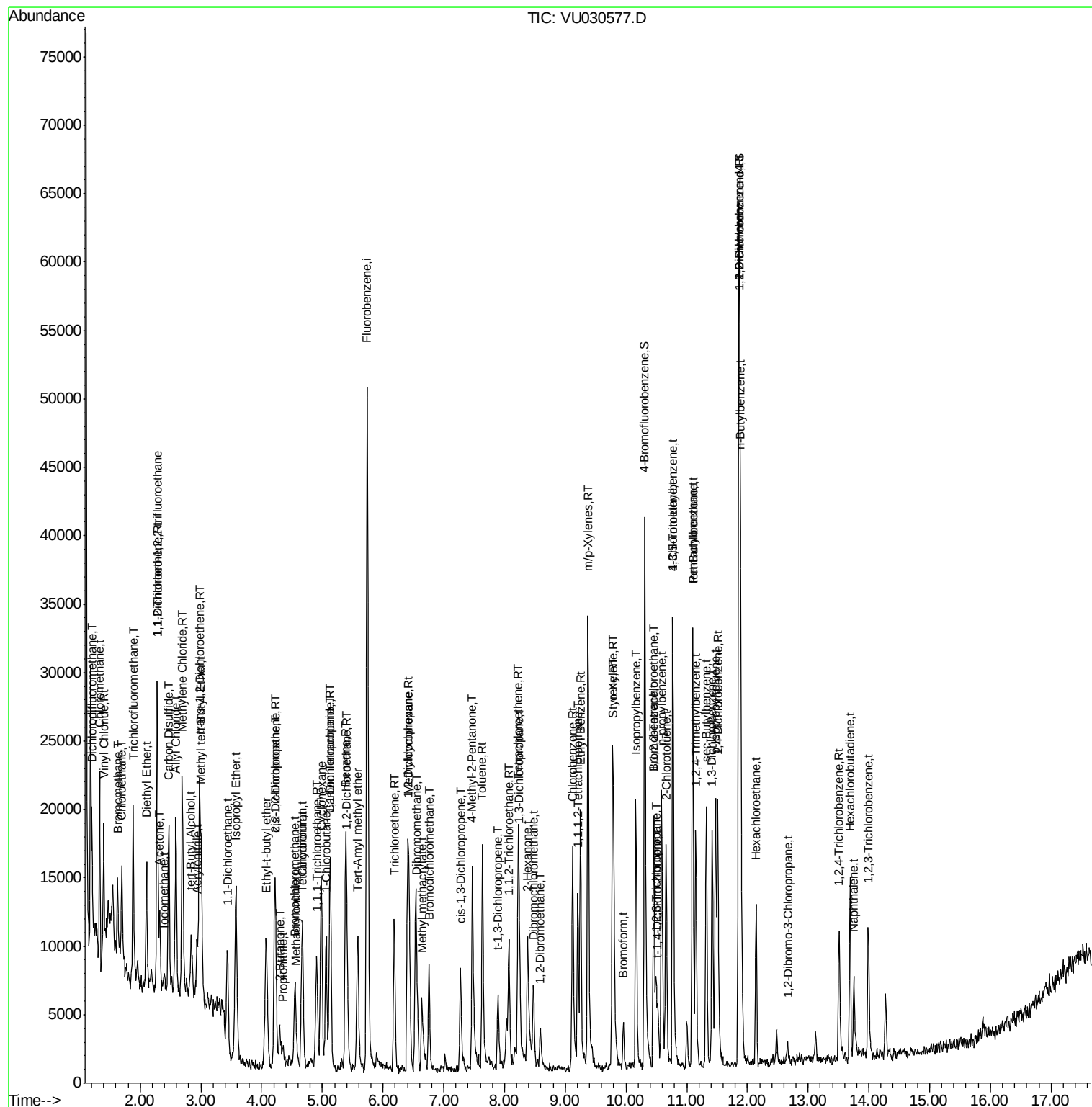
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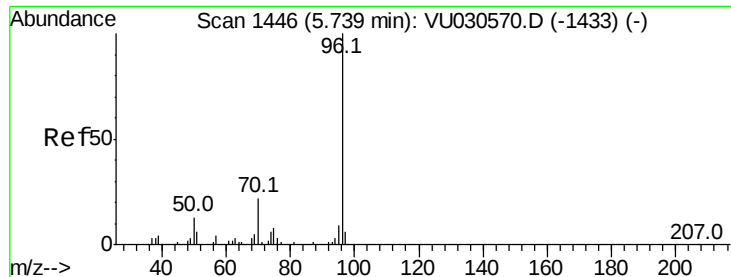
Instrument :
MSVOA_U
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MDL-MDL-WATER-03-QT1-2019

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#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 5.74 min Scan# 1446

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 96 Resp: 46678

Ion Ratio Lower Upper

96 100

70 23.9 15.6 23.4#

95 10.8 7.3 10.9

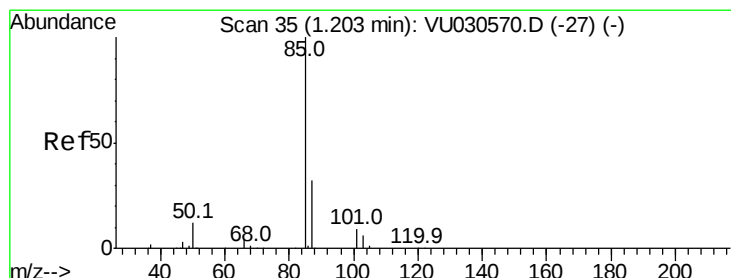
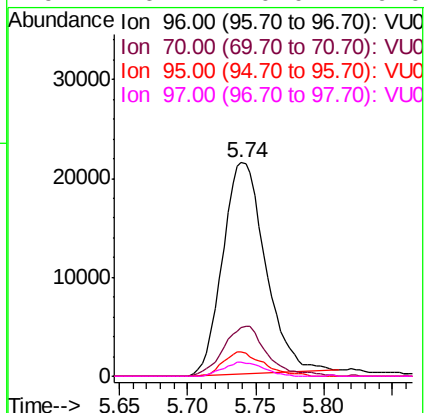
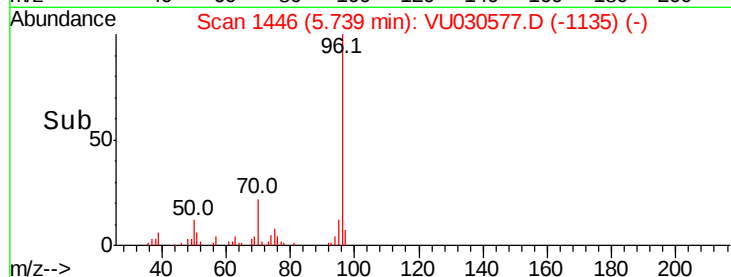
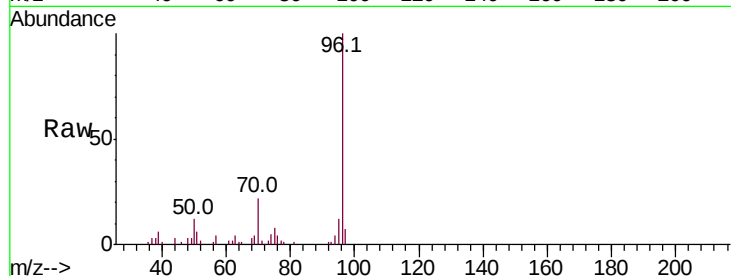
97 6.2 0.0 0.0#

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 0.288 ug/l

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU030577.D

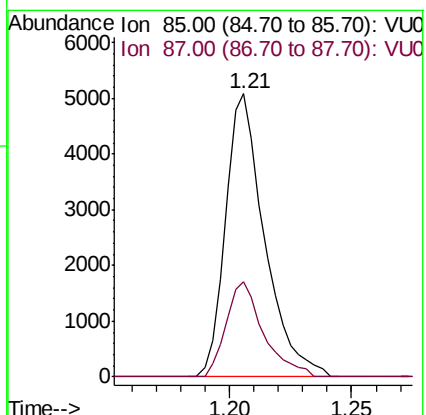
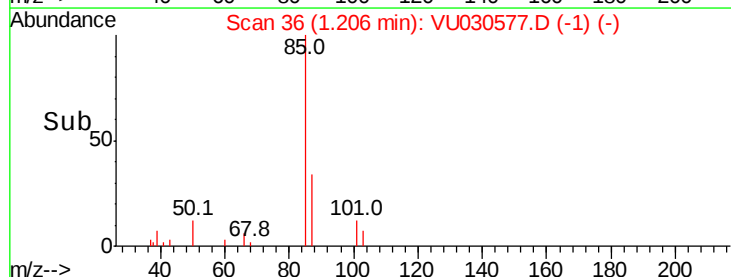
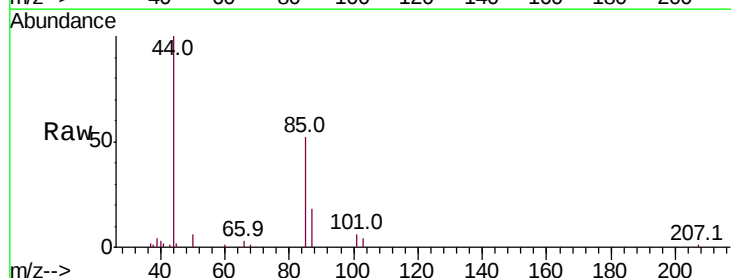
Acq: 30 Mar 2019 17:27

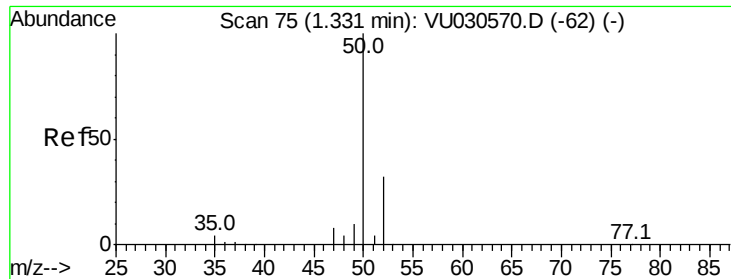
Tgt Ion: 85 Resp: 5661

Ion Ratio Lower Upper

85 100

87 33.9 15.9 47.6





#3

Chloromethane

Concen: 0.328 ug/l

RT: 1.33 min Scan# 75

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 50 Resp: 8331

Ion Ratio Lower Upper

50 100

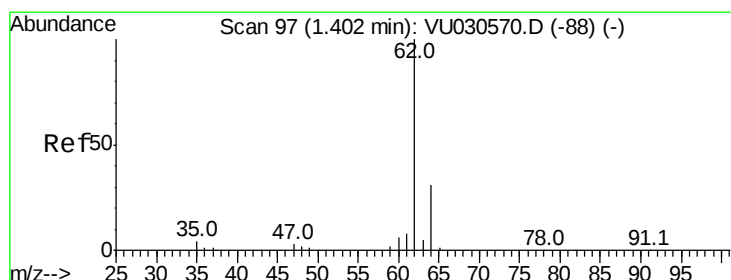
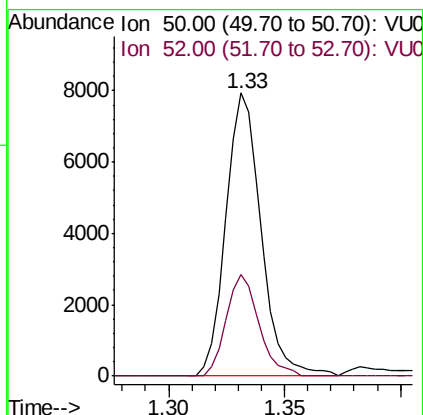
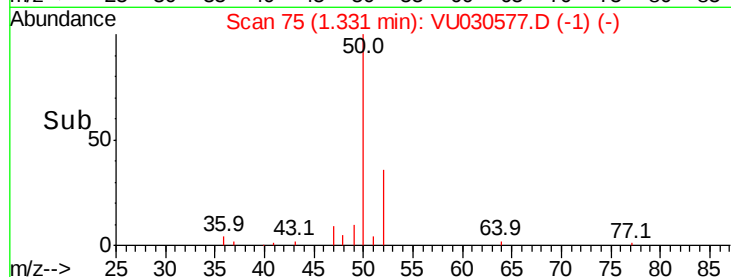
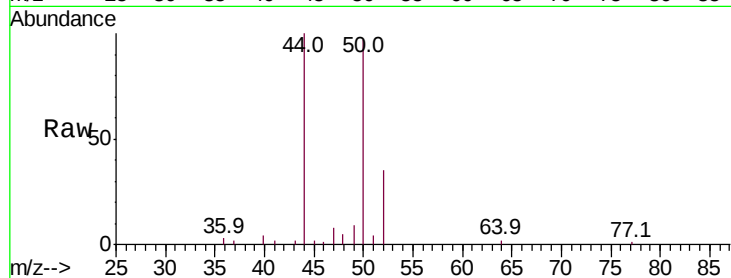
52 35.9 25.8 38.8

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#4

Vinyl Chloride

Concen: 0.292 ug/l

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU030577.D

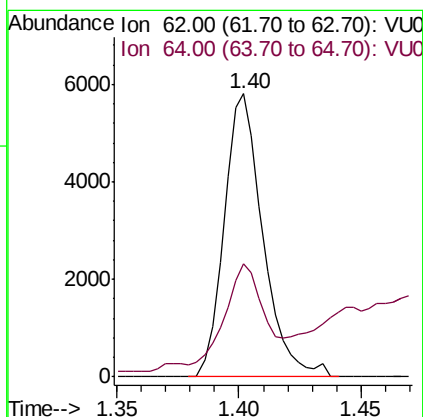
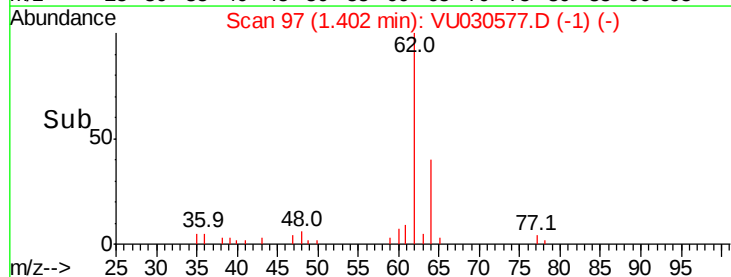
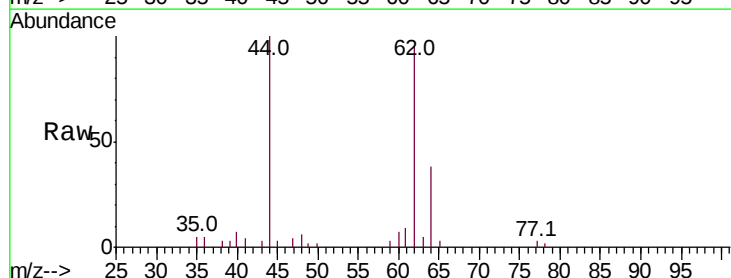
Acq: 30 Mar 2019 17:27

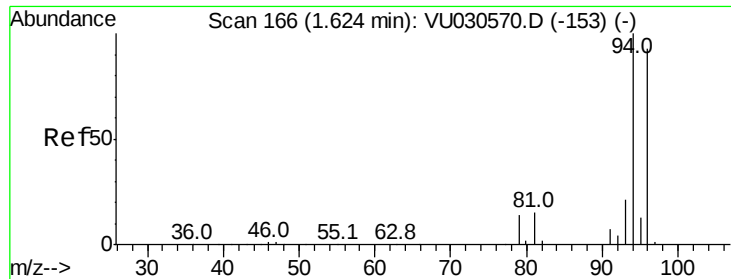
Tgt Ion: 62 Resp: 6399

Ion Ratio Lower Upper

62 100

64 35.4 25.1 37.7





#5

Bromomethane

Concen: 0.234 ug/l

RT: 1.63 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 94 Resp: 2210

Ion Ratio Lower Upper

94 100

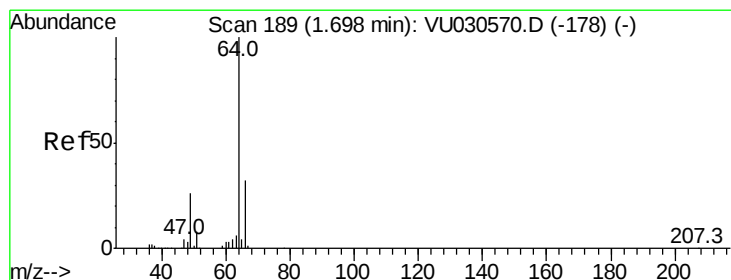
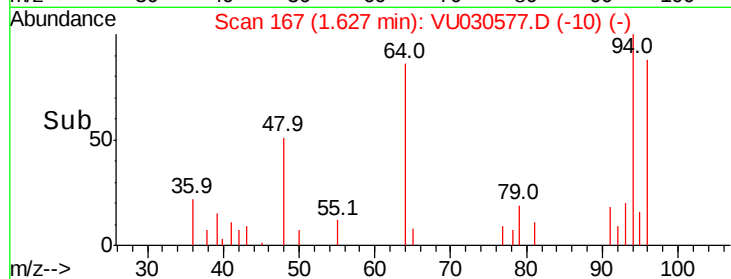
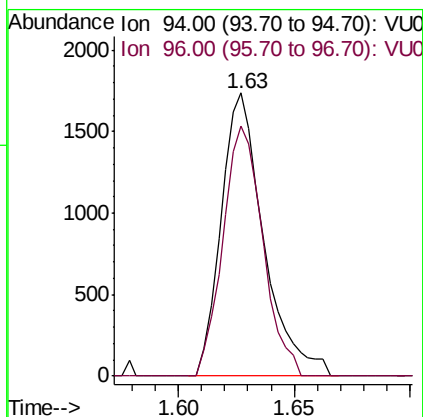
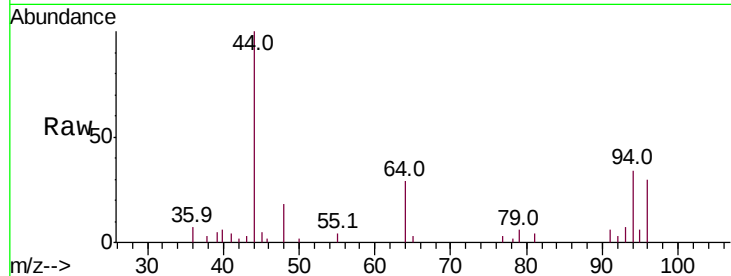
96 88.2 74.8 112.2

Manual Integrations

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#6

Chloroethane

Concen: 0.319 ug/l

RT: 1.70 min Scan# 189

Delta R.T. 0.00 min

Lab File: VU030577.D

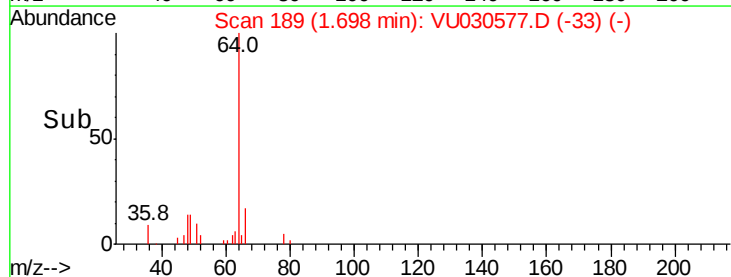
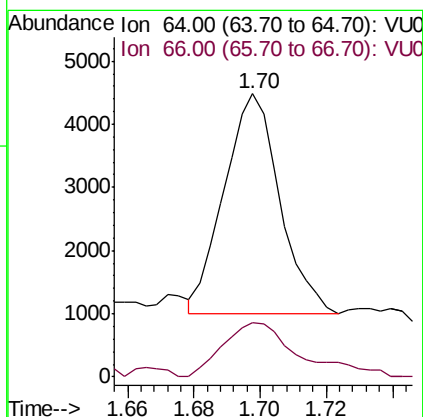
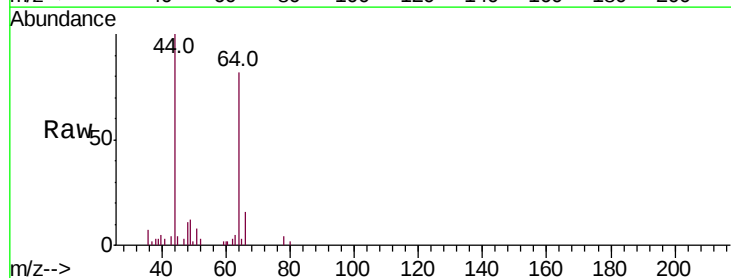
Acq: 30 Mar 2019 17:27

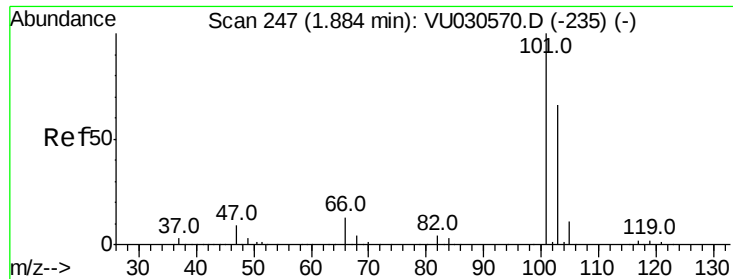
Tgt Ion: 64 Resp: 4033

Ion Ratio Lower Upper

64 100

66 24.6 25.5 38.3#





#7

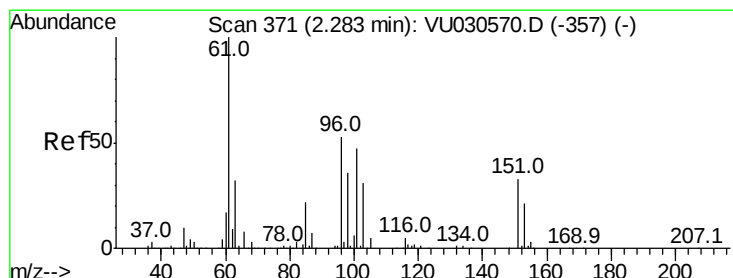
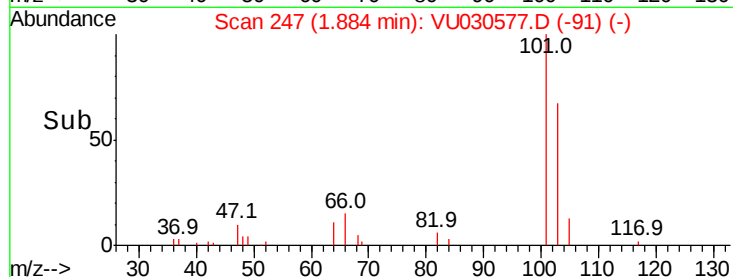
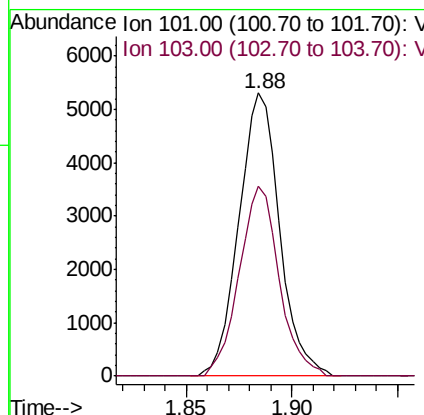
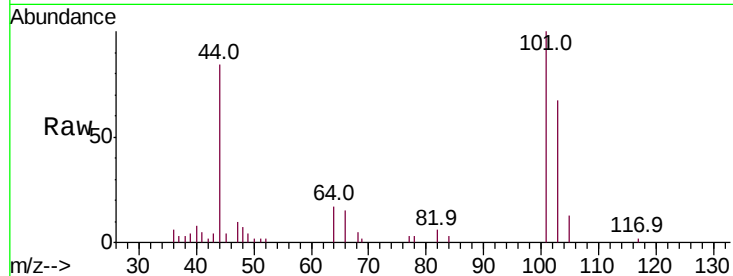
Trichlorofluoromethane
 Concen: 0.296 ug/l
 RT: 1.88 min Scan# 247
 Delta R.T. 0.00 min
 Lab File: VU030577.D
 Acq: 30 Mar 2019 17:27

Instrument :
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 MDL-MDL-WATER-03-QT1-2019

Tot Ion:101 Resp: 7120
 Ion Ratio Lower Upper
 101 100
 103 66.9 52.6 79.0

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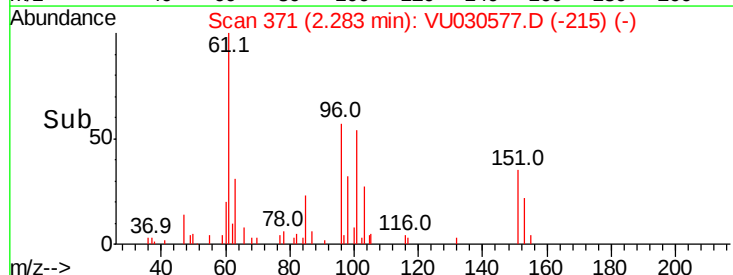
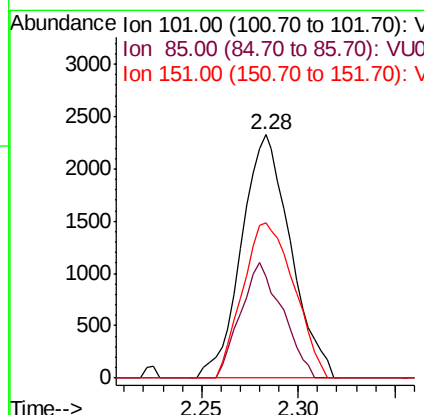
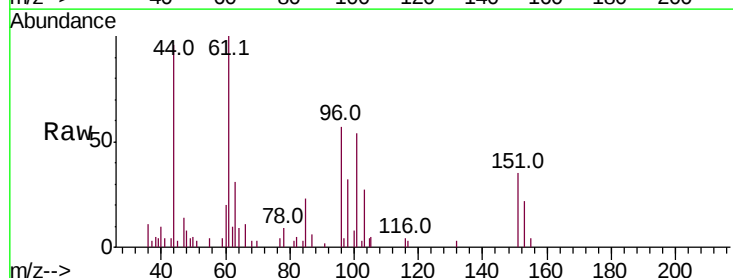
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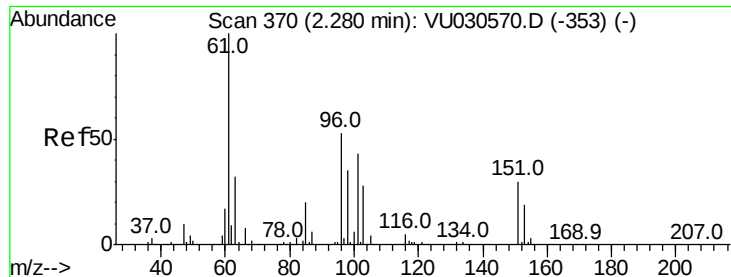


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
 Concen: 0.335 ug/l
 RT: 2.28 min Scan# 371
 Delta R.T. 0.00 min
 Lab File: VU030577.D
 Acq: 30 Mar 2019 17:27

Tgt Ion:101 Resp: 4101
 Ion Ratio Lower Upper
 101 100
 85 40.4 36.5 54.7
 151 66.7 56.5 84.7





#9

1,1-Dichloroethene

Concen: 0.302 ug/l

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

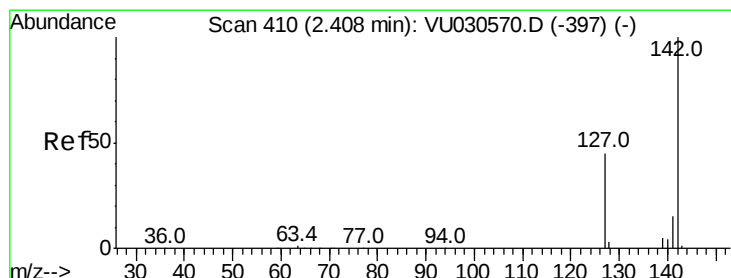
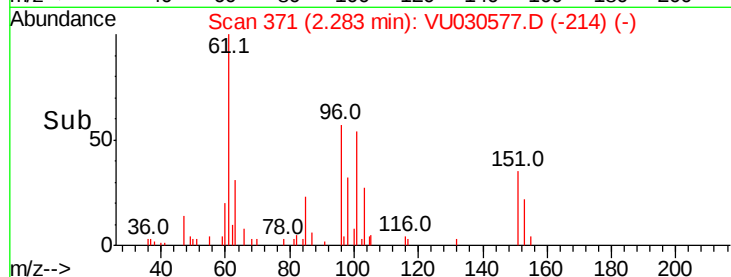
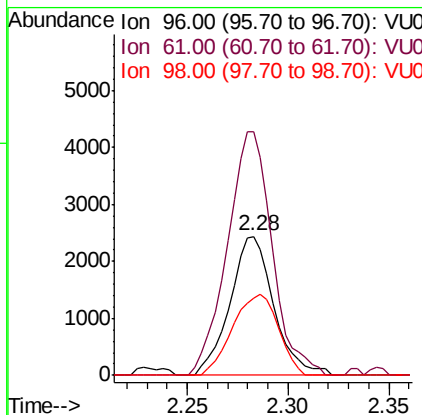
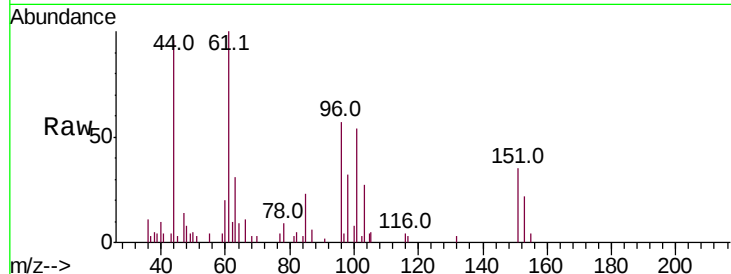
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	96	Resp:	3719
Ion	Ratio	Lower	Upper
96	100		
61	175.1	0.0	567.0
98	56.0	0.0	132.2

Manual Integrations
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#10

Iodomethane

Concen: 0.555 ug/l

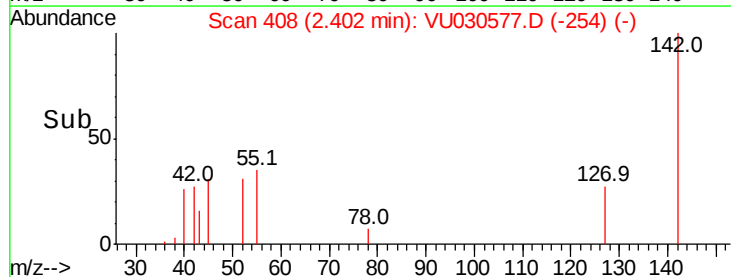
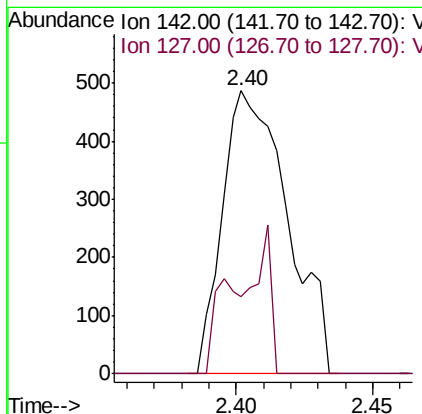
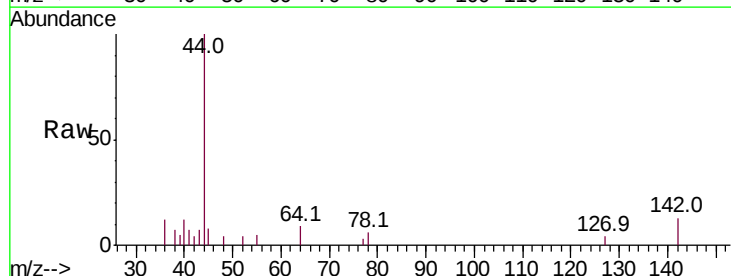
RT: 2.40 min Scan# 408

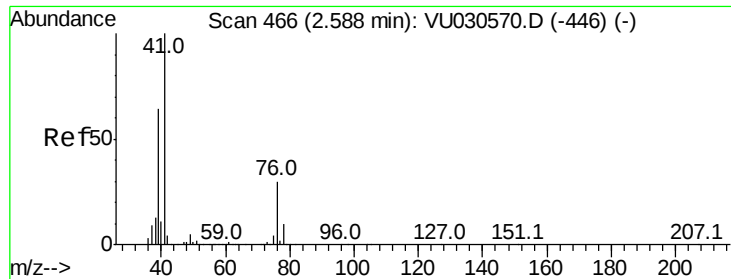
Delta R.T. -0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Tgt Ion:	142	Resp:	807
Ion	Ratio	Lower	Upper
142	100		
127	13.9	36.8	55.2





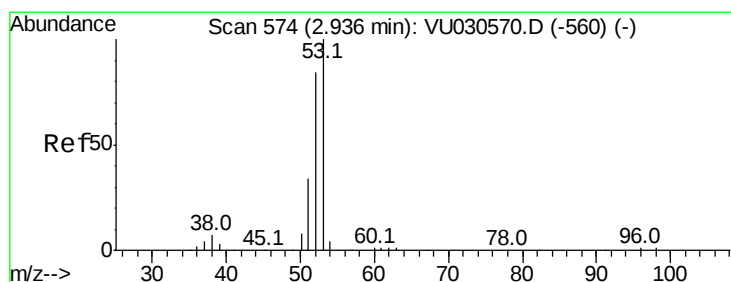
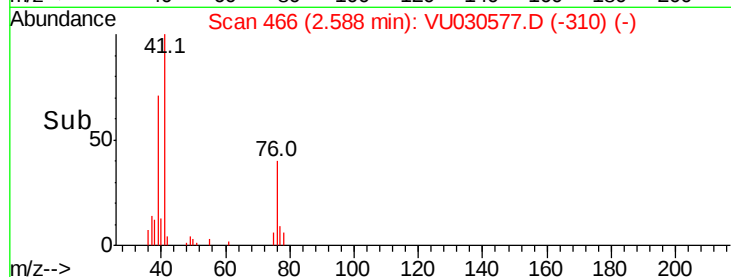
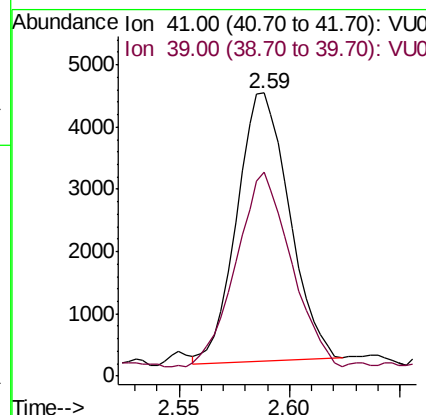
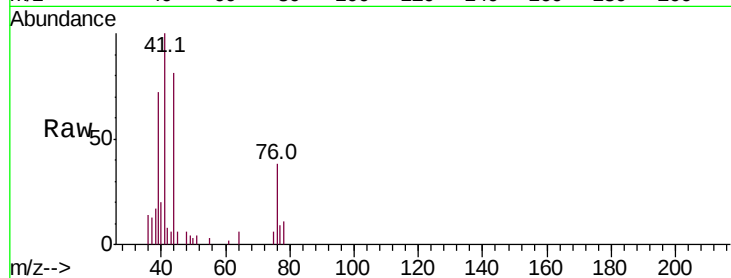
#11
Allvl Chloride
Concen: 0.267 ug/l
RT: 2.59 min Scan# 466
Delta R.T. 0.00 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion: 41 Resp: 7160
Ion Ratio Lower Upper
41 100
39 75.5 51.8 77.6

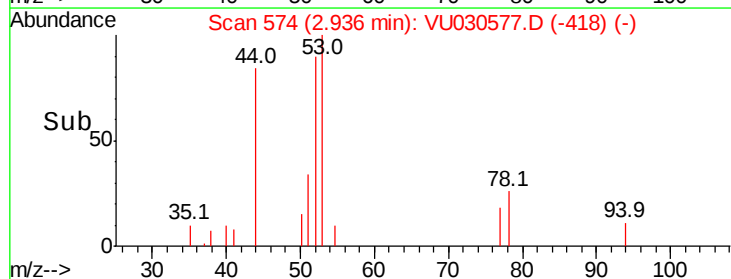
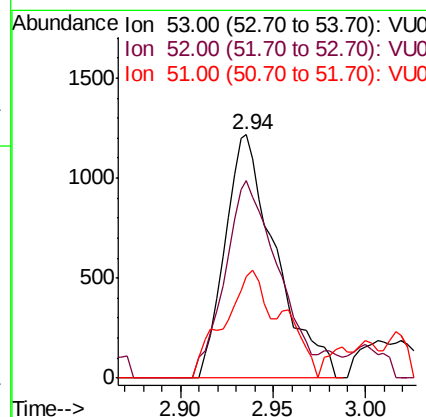
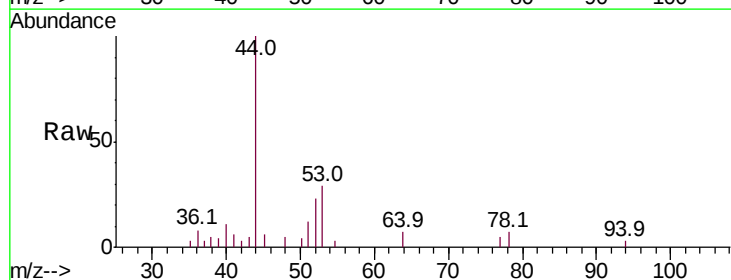
Manual Integrations
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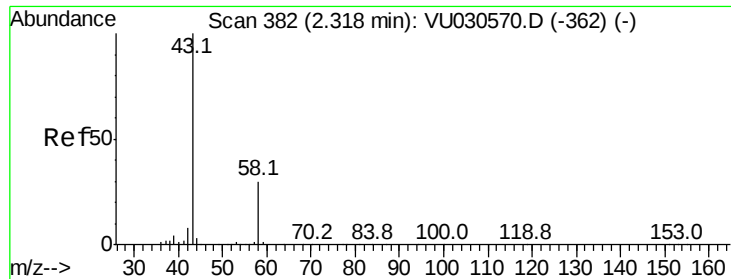
MMDadoda
4/5/2019 2:38:53 PM



#12
Acrylonitrile
Concen: 0.659 ug/l
RT: 2.94 min Scan# 574
Delta R.T. 0.00 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Tgt Ion: 53 Resp: 2305
Ion Ratio Lower Upper
53 100
52 85.4 69.1 103.7
51 38.6 27.9 41.9





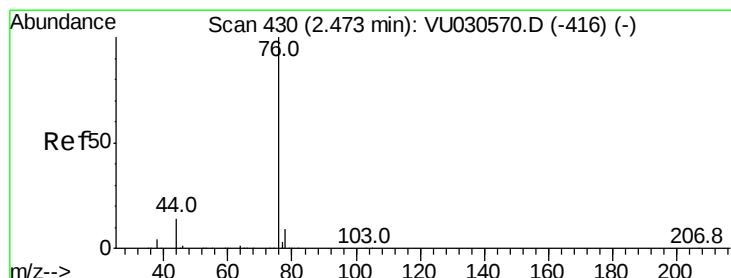
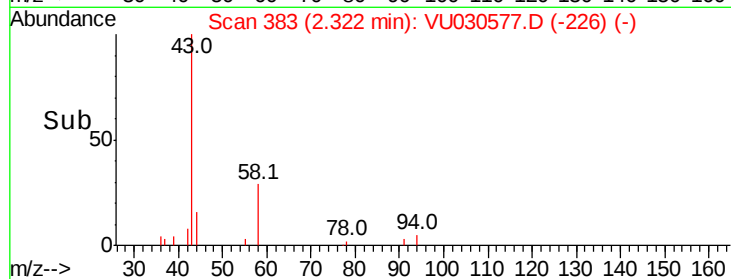
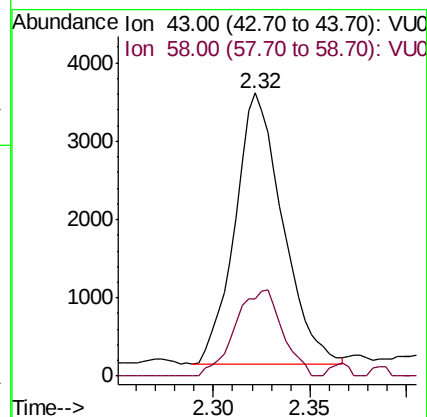
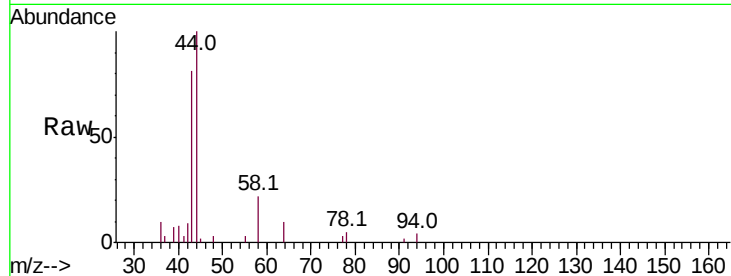
#13
Acetone
Concen: 1.816 ug/l
RT: 2.32 min Scan# 383
Delta R.T. 0.00 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion: 43 Resp: 5947
Ion Ratio Lower Upper
43 100
58 28.5 24.2 36.4

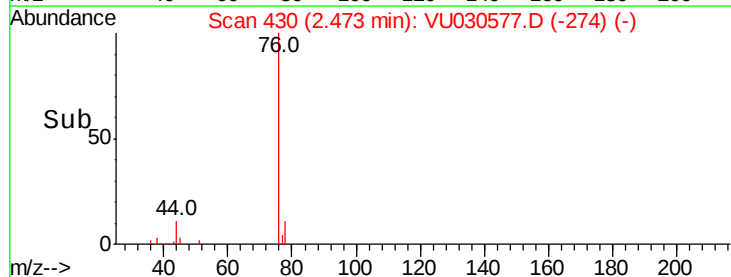
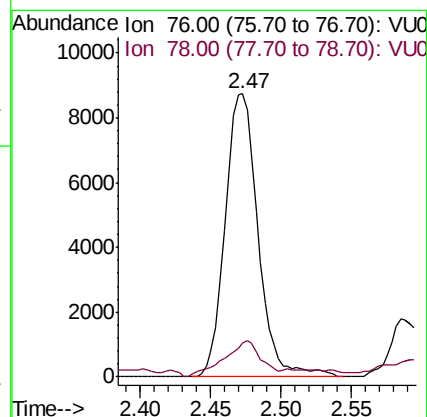
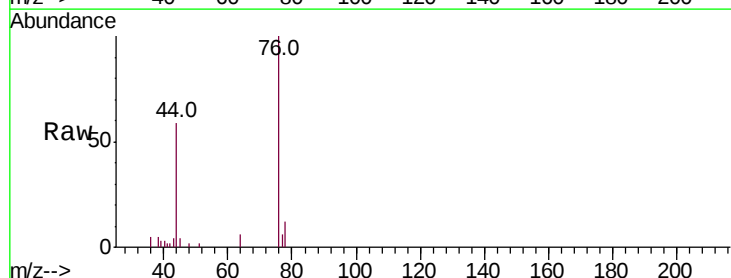
Manual Integrations
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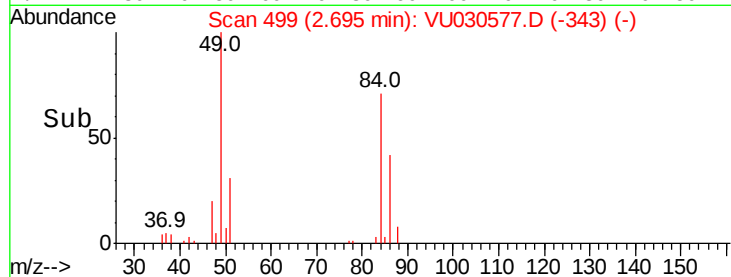
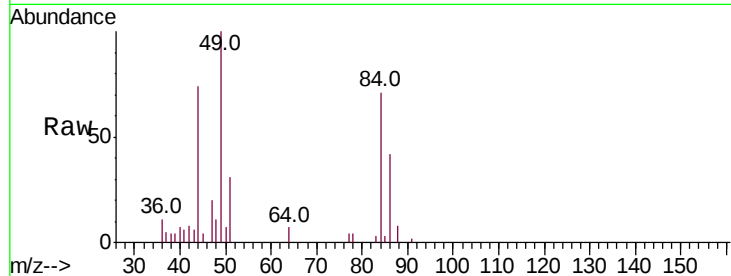
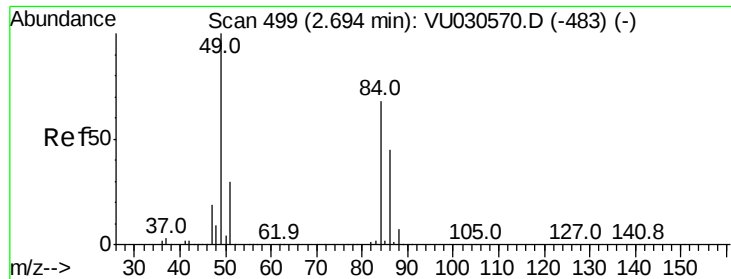
MMDadoda
4/5/2019 2:38:53 PM



#14
Carbon Disulfide
Concen: 0.317 ug/l
RT: 2.47 min Scan# 430
Delta R.T. 0.00 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Tgt Ion: 76 Resp: 14246
Ion Ratio Lower Upper
76 100
78 10.7 7.3 10.9





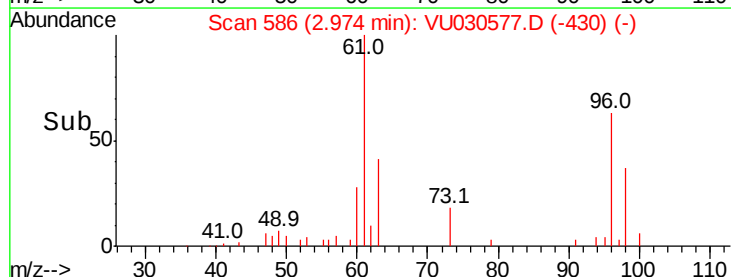
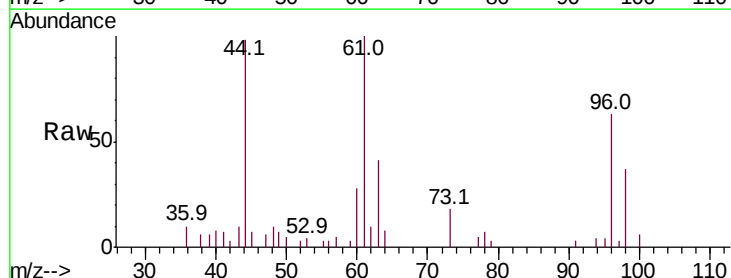
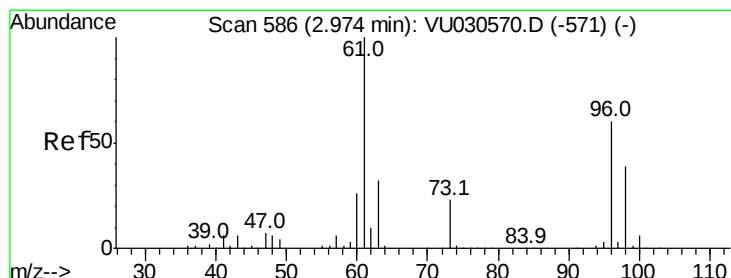
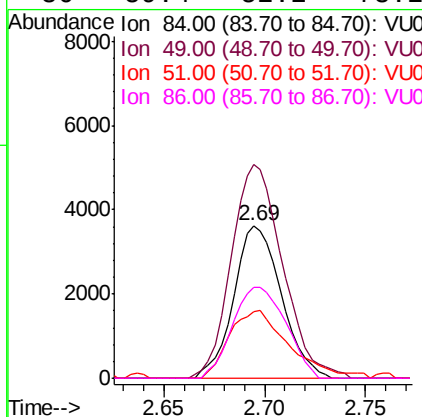
#15
Methvlene Chloride
Concen: 0.384 ug/l
RT: 2.69 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Tot Ion	84	Resp:	5994
Ion	Ratio	Lower	Upper
84	100		
49	140.1	117.0	175.6
51	43.9	0.0	88.6
86	59.4	52.2	78.2

Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

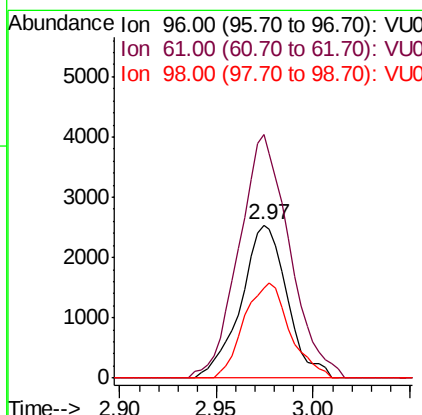
Manual Integrations
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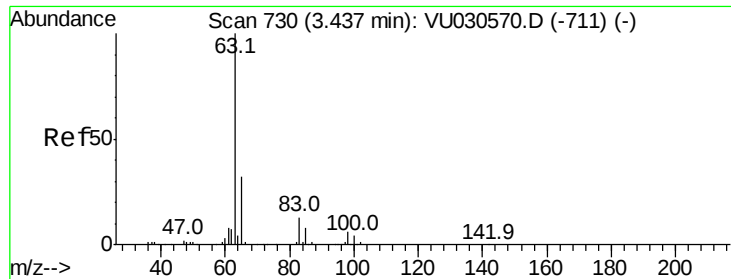
MMDadoda
4/5/2019 2:38:53 PM



#16
trans-1,2-Dichloroethene
Concen: 0.303 ug/l
RT: 2.97 min Scan# 586
Delta R.T. 0.00 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Tgt Ion	96	Resp:	4213
Ion	Ratio	Lower	Upper
96	100		
61	159.0	132.3	198.5
98	58.5	51.3	76.9





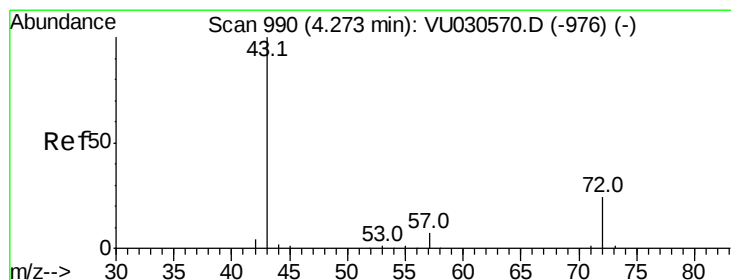
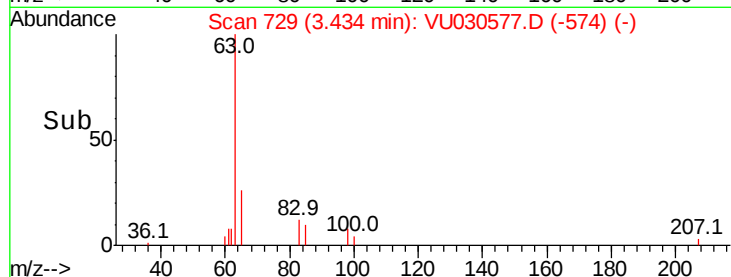
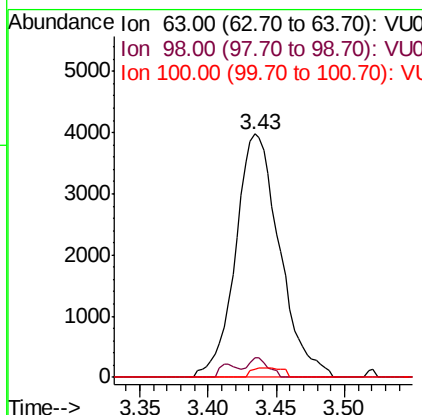
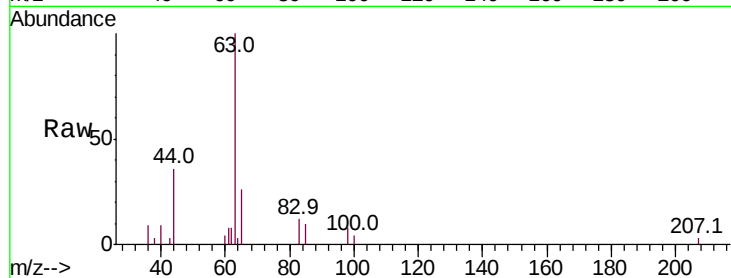
#17
 1,1-Dichloroethane
 Concen: 0.315 ug/l
 RT: 3.43 min Scan# 729
 Delta R.T. -0.00 min
 Lab File: VU030577.D
 Acq: 30 Mar 2019 17:27

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Resp	Lower	Upper
63	100			
98	7.8	3.0	9.0	
100	3.6	1.8	5.5	

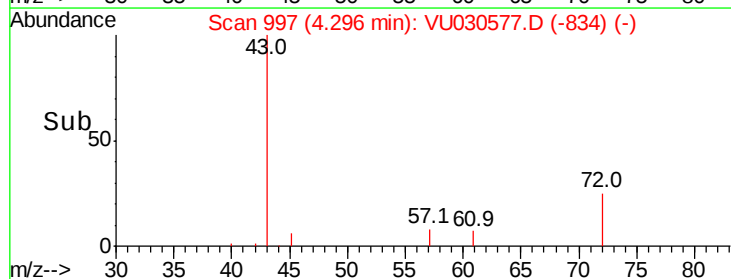
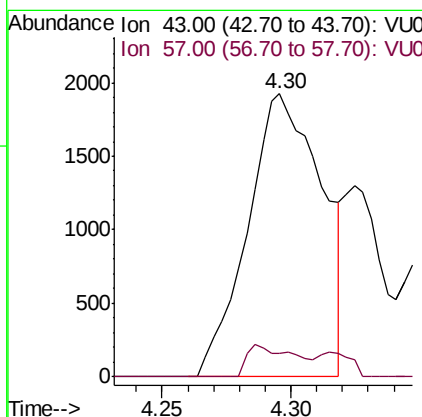
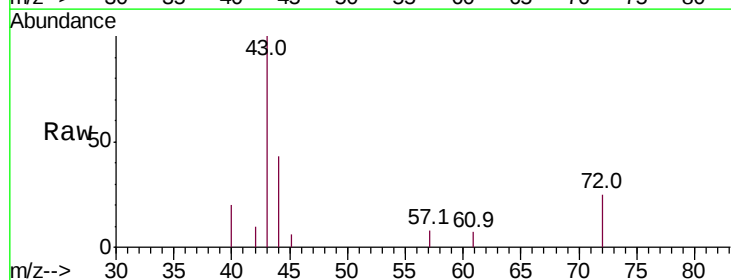
Manual Integrations
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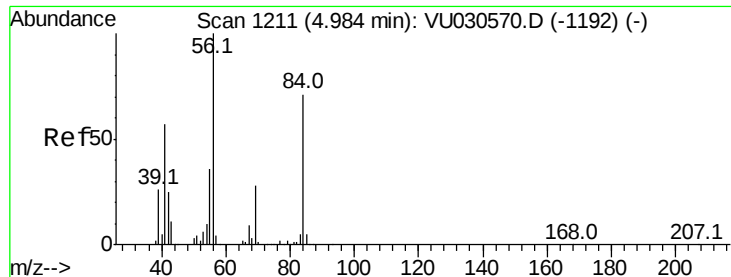
MMDadoda
 4/5/2019 2:38:53 PM



#18
 2-Butanone
 Concen: 0.910 ug/l
 RT: 4.30 min Scan# 997
 Delta R.T. 0.02 min
 Lab File: VU030577.D
 Acq: 30 Mar 2019 17:27

Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
57	8.4	0.0	14.4	





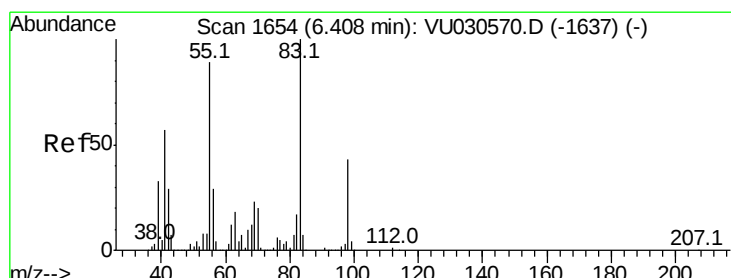
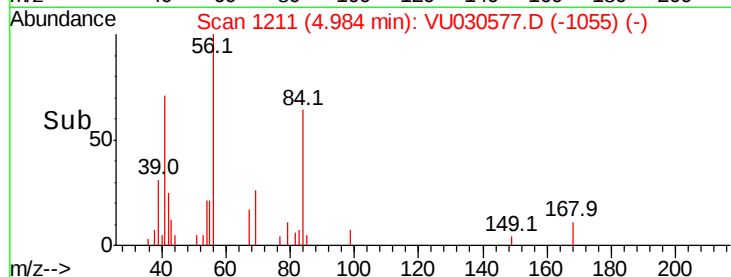
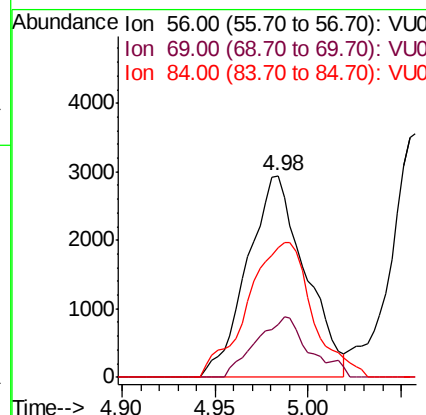
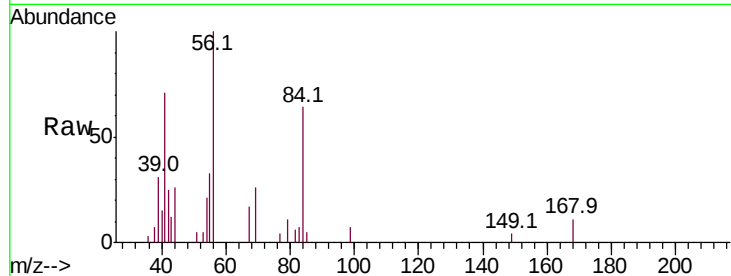
#19
Cyclohexane
Concen: 0.266 ug/l m
RT: 4.98 min Scan# 1211
Delta R.T. 0.00 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
56	100		
69	27.6	22.3	33.5
84	74.4	57.6	86.4

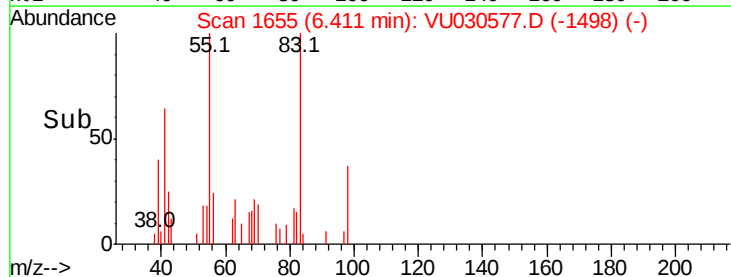
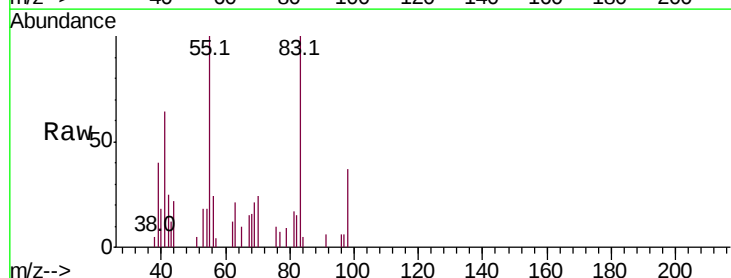
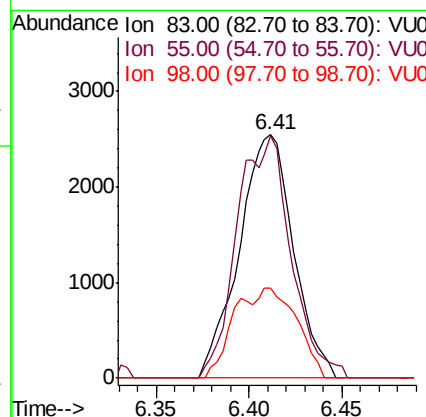
Manual Integrations
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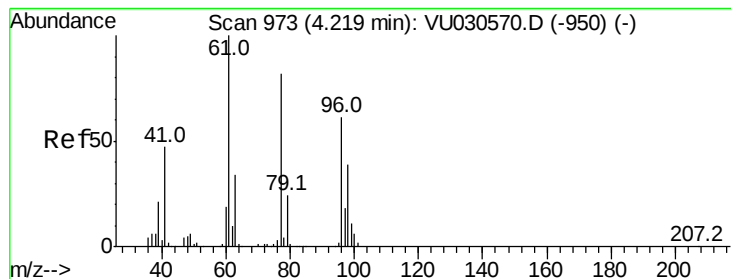
MMDadoda
4/5/2019 2:38:53 PM



#20
Methylcyclohexane
Concen: 0.249 ug/l
RT: 6.41 min Scan# 1655
Delta R.T. 0.00 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Tgt Ion	Ratio	Lower	Upper
83	100		
55	99.3	72.0	108.0
98	42.5	35.0	52.4





#21

2,2-Dichloropropane

Concen: 0.260 ug/l

RT: 4.22 min Scan# 972

Delta R.T. -0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 77 Resp: 5635

Ion Ratio Lower Upper

77 100

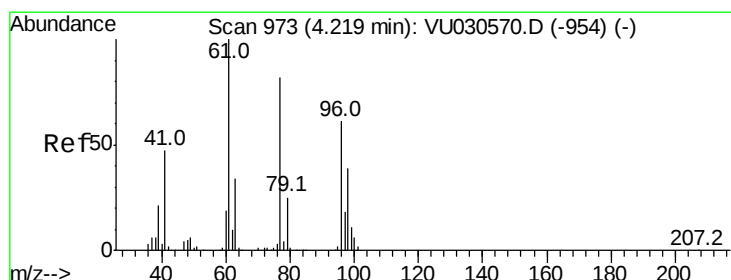
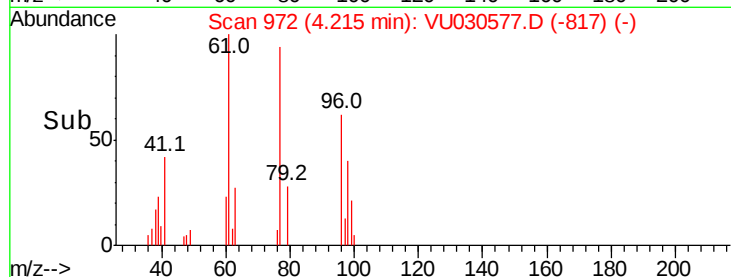
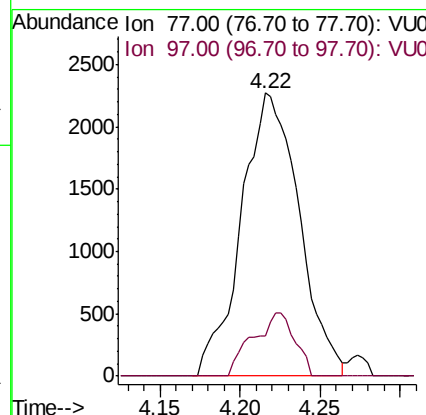
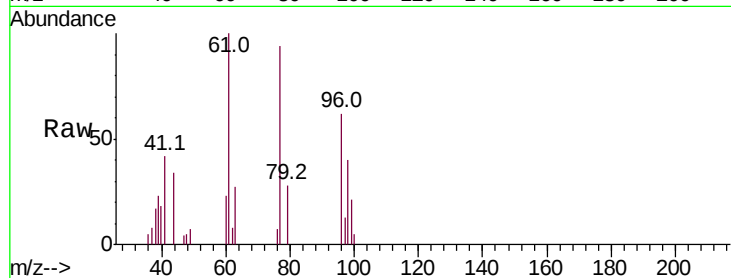
97 16.2 17.6 26.4#

Manual Integrations

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#22

cis-1,2-Dichloroethene

Concen: 0.274 ug/l

RT: 4.22 min Scan# 974

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

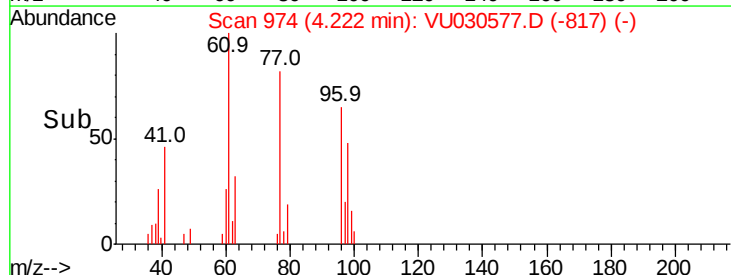
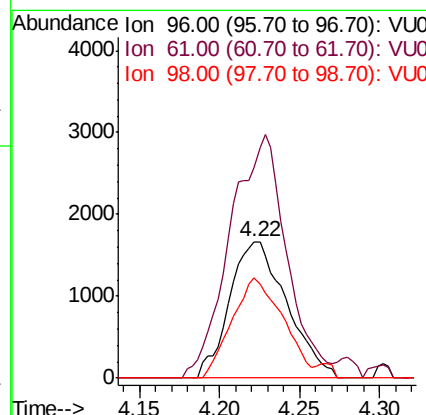
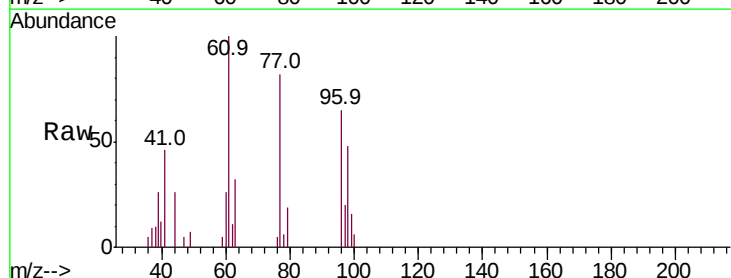
Tgt Ion: 96 Resp: 4086

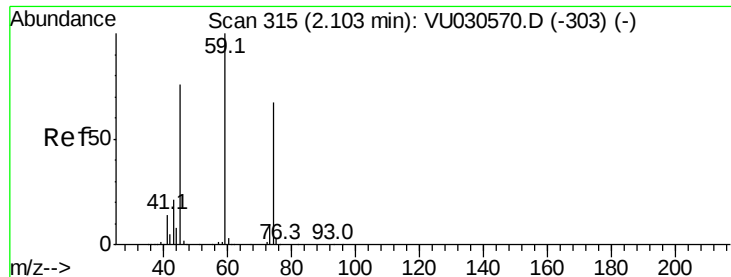
Ion Ratio Lower Upper

96 100

61 176.6 0.0 427.0

98 65.2 32.5 97.4





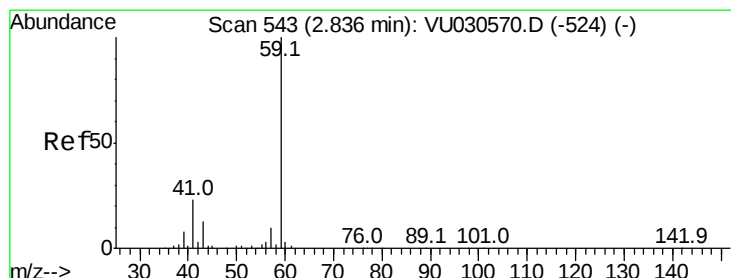
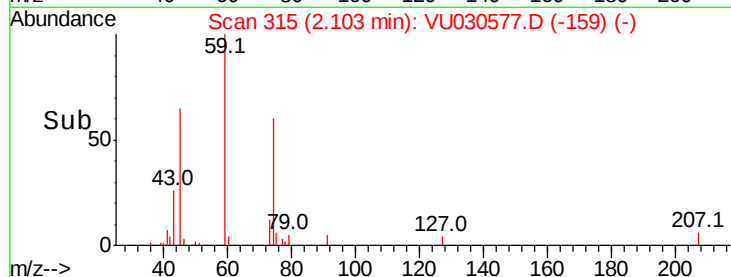
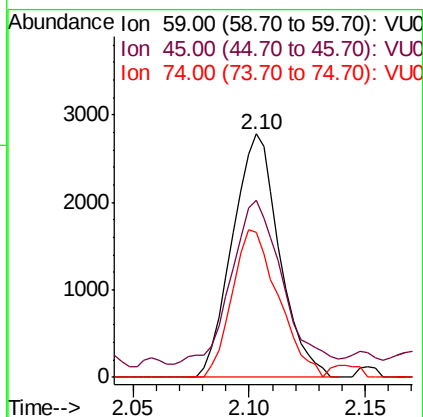
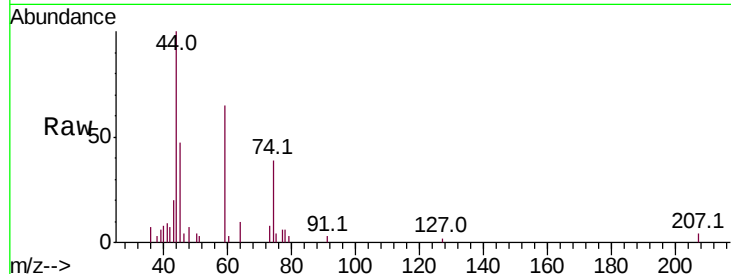
#23
Diethyl Ether
Concen: 0.335 ug/l
RT: 2.10 min Scan# 315
Delta R.T. 0.00 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
59	100		
45	71.7	61.6	92.4
74	59.5	53.2	79.8

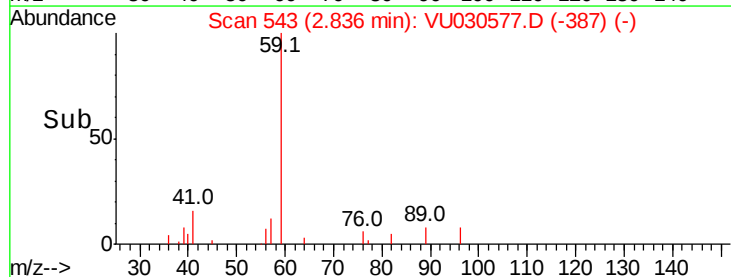
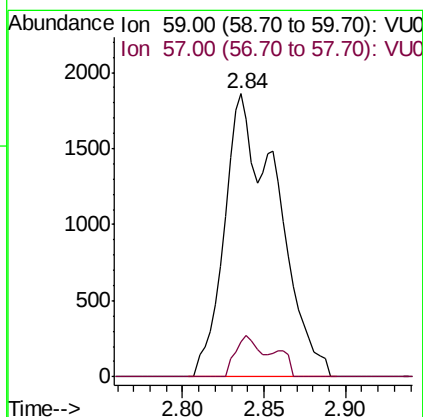
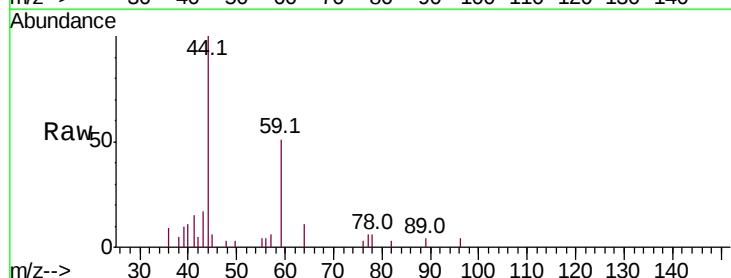
Manual Integrations
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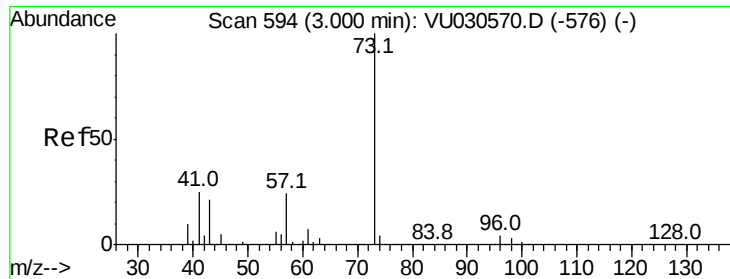
MMDadoda
4/5/2019 2:38:53 PM



#24
tert-Butyl Alcohol
Concen: 3.472 ug/l m
RT: 2.84 min Scan# 543
Delta R.T. 0.00 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Tgt Ion	Ratio	Lower	Upper
59	100		
57	6.9	8.4	12.6#





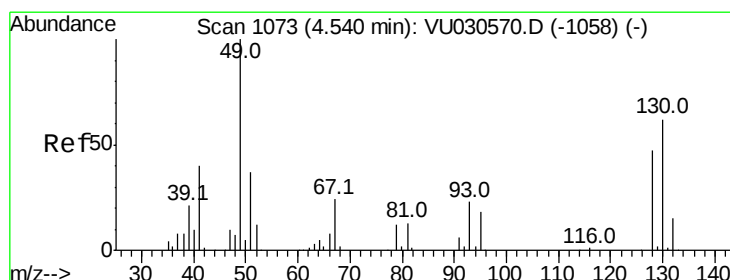
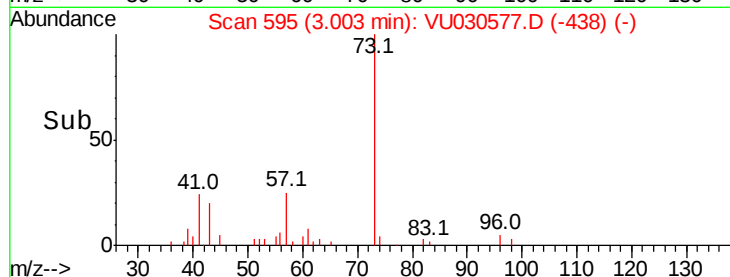
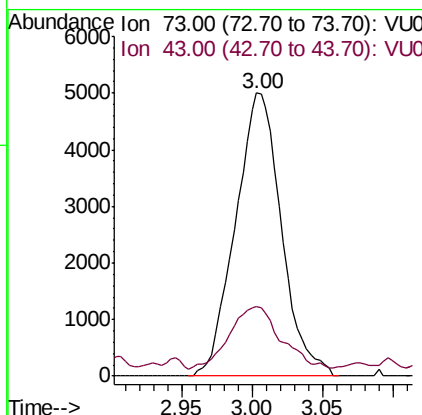
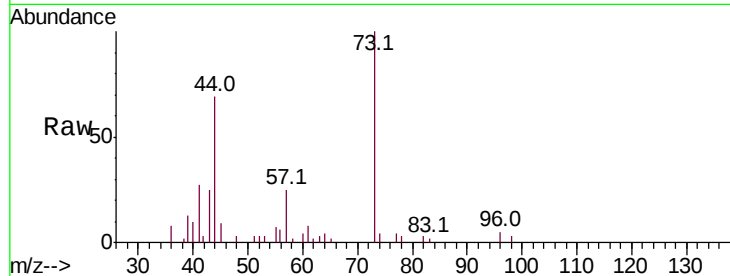
#25
Methyl tert-Butyl Ether
Concen: 0.320 ug/l
RT: 3.00 min Scan# 595
Delta R.T. 0.00 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion: 73 Resp: 11386
Ion Ratio Lower Upper
73 100
43 24.5 16.6 24.8

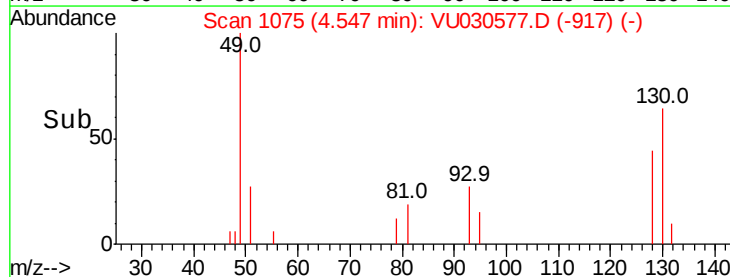
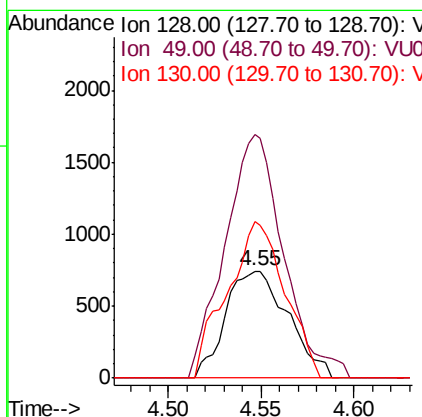
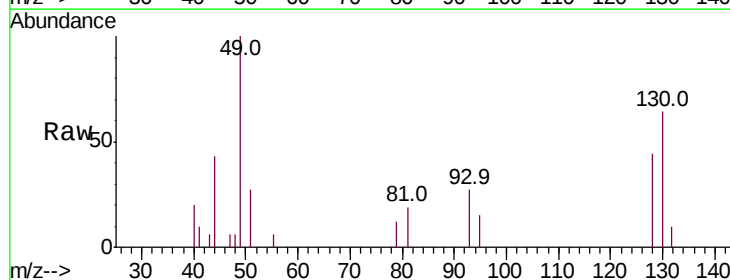
Manual Integrations
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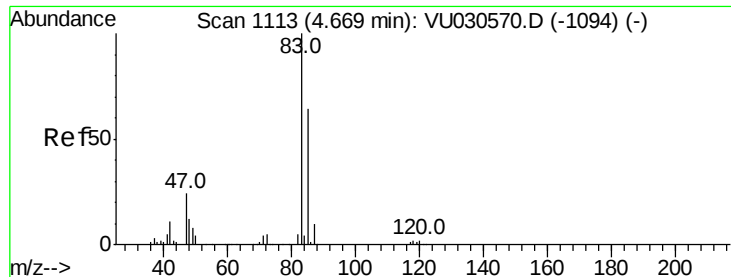
MMDadoda
4/5/2019 2:38:53 PM



#26
Bromochloromethane
Concen: 0.298 ug/l
RT: 4.55 min Scan# 1075
Delta R.T. 0.01 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Tgt Ion: 128 Resp: 1744
Ion Ratio Lower Upper
128 100
49 213.0 0.0 418.2
130 135.1 103.4 155.0





#27

Chloroform

Concen: 0.302 ug/l

RT: 4.67 min Scan# 1114

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 83 Resp: 7974

Ion Ratio Lower Upper

83 100

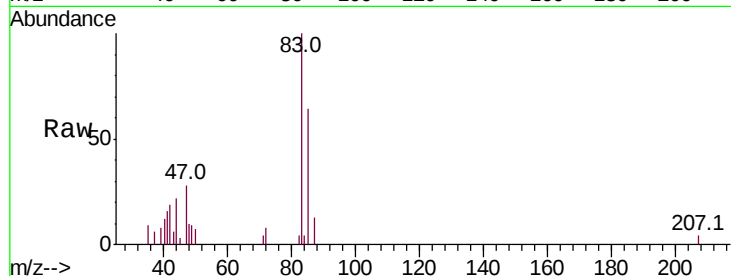
85 64.1 0.0 128.4

Manual Integrations

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Abundance Ion 83.00 (82.70 to 83.70): VU030577.D (-957) (-)

Ion 85.00 (84.70 to 85.70): VU030577.D (-957) (-)

4.67

3000

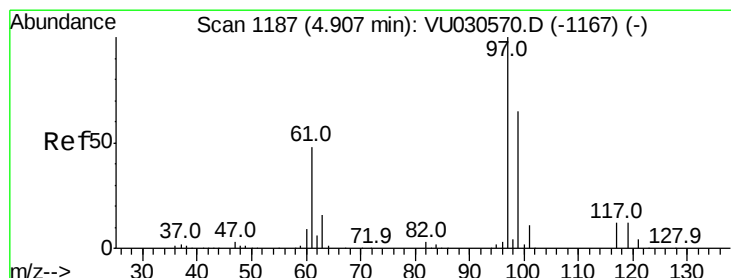
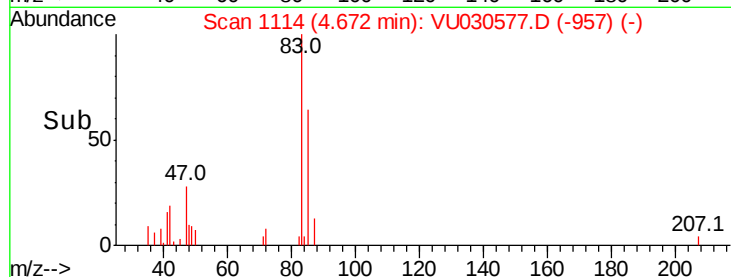
2000

1000

0

4.60 4.65 4.70 4.75

Time-->



#28

1,1,1-Trichloroethane

Concen: 0.278 ug/l

RT: 4.91 min Scan# 1189

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

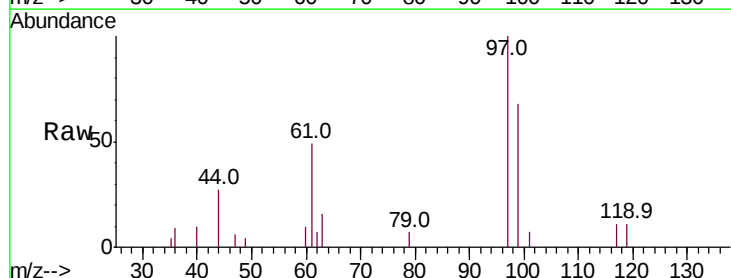
Tgt Ion: 97 Resp: 6045

Ion Ratio Lower Upper

97 100

99 68.3 32.0 96.0

61 53.5 24.0 72.0



Abundance Ion 97.00 (96.70 to 97.70): VU030577.D (-1031) (-)

Ion 99.00 (98.70 to 99.70): VU030577.D (-1031) (-)

Ion 61.00 (60.70 to 61.70): VU030577.D (-1031) (-)

4.91

3000

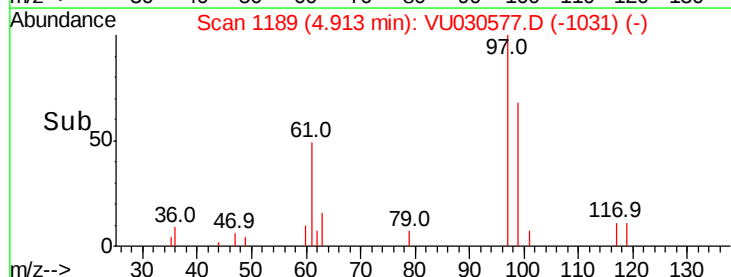
2000

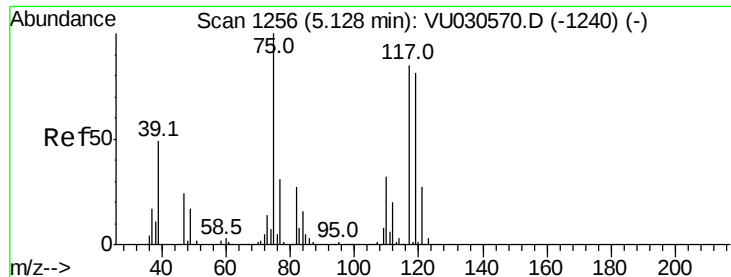
1000

0

4.85 4.90 4.95

Time-->





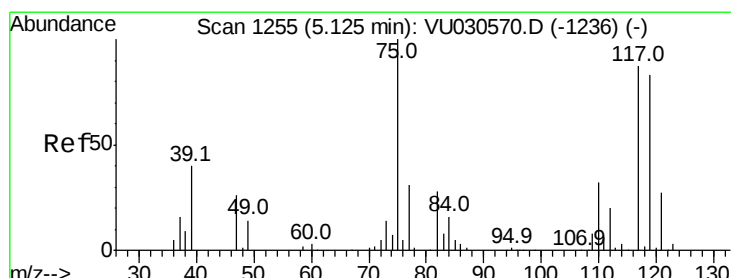
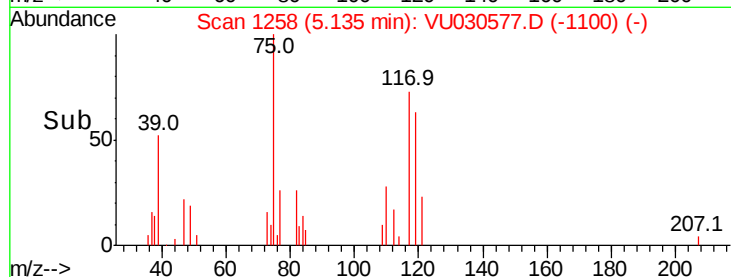
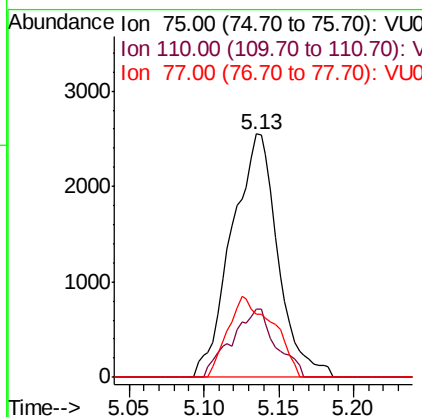
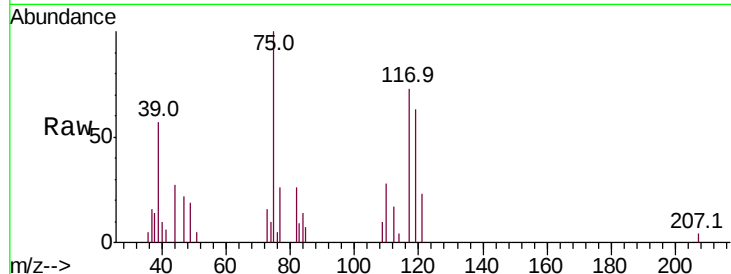
#29
 1,1-Dichloropropene
 Concen: 0.281 ug/l
 RT: 5.13 min Scan# 1258
 Delta R.T. 0.01 min
 Lab File: VU030577.D
 Acq: 30 Mar 2019 17:27

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
75	100		
110	26.7	16.0	48.0
77	32.5	24.8	37.2

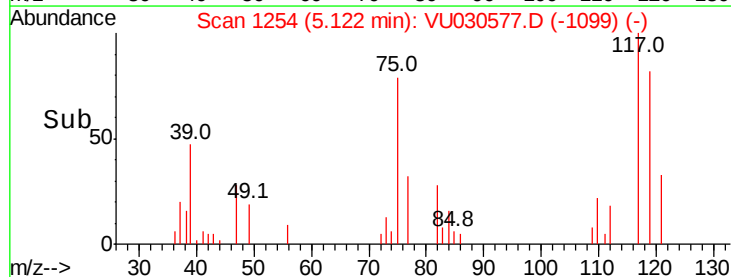
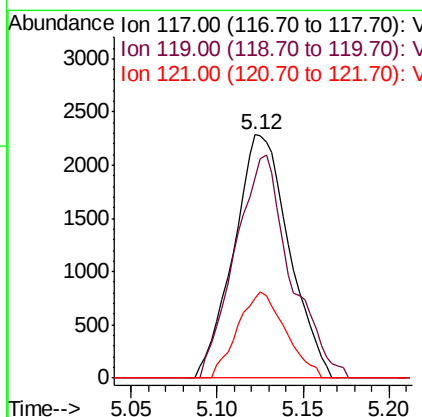
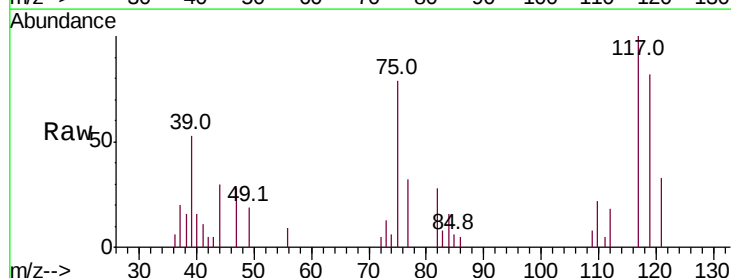
Manual Integrations
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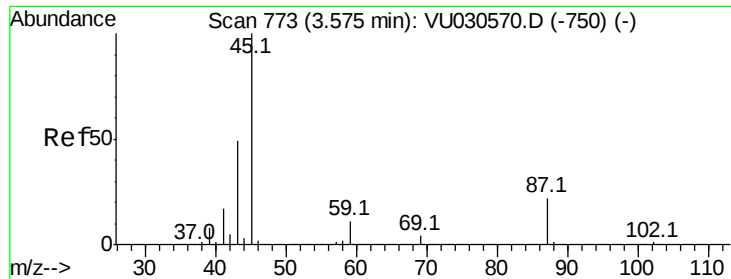
MMDadoda
 4/5/2019 2:38:53 PM



#30
 Carbon Tetrachloride
 Concen: 0.281 ug/l
 RT: 5.12 min Scan# 1254
 Delta R.T. -0.00 min
 Lab File: VU030577.D
 Acq: 30 Mar 2019 17:27

Tgt Ion	Ratio	Lower	Upper
117	100		
119	82.3	76.4	114.6
121	32.9	24.7	37.1





#31

Isopropyl Ether

Concen: 0.280 ug/l

RT: 3.58 min Scan# 773

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 45 Resp: 13177

Ion Ratio Lower Upper

45 100

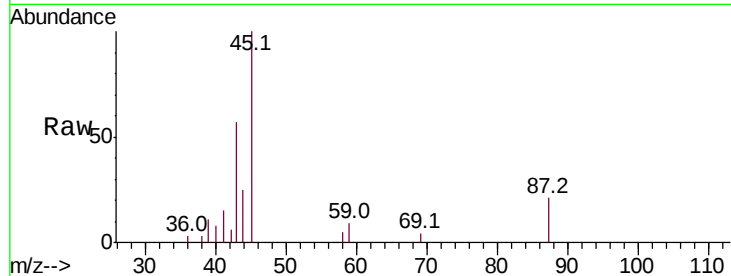
43 57.2 25.0 75.0

Manual Integrations

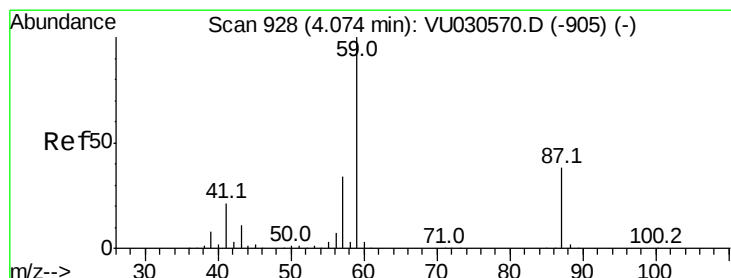
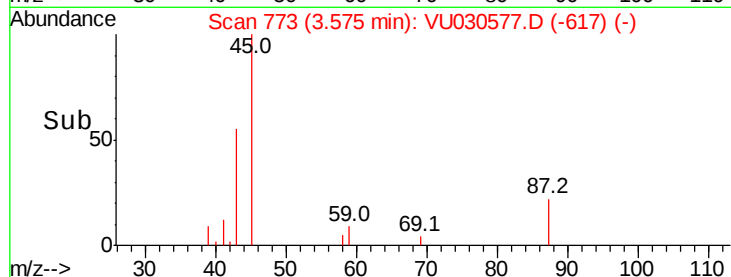
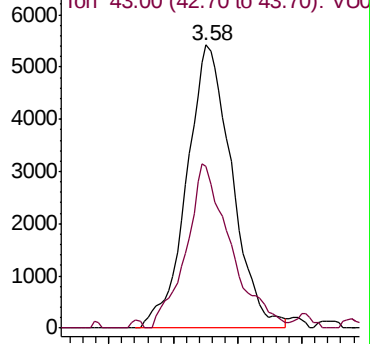
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Abundance Ion 45.00 (44.70 to 45.70): VU030577.D (-617) (-)



#32

Ethyl-t-butyl ether

Concen: 0.294 ug/l

RT: 4.08 min Scan# 929

Delta R.T. 0.00 min

Lab File: VU030577.D

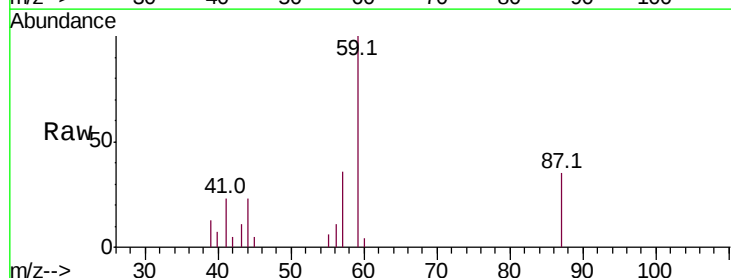
Acq: 30 Mar 2019 17:27

Tgt Ion: 59 Resp: 11012

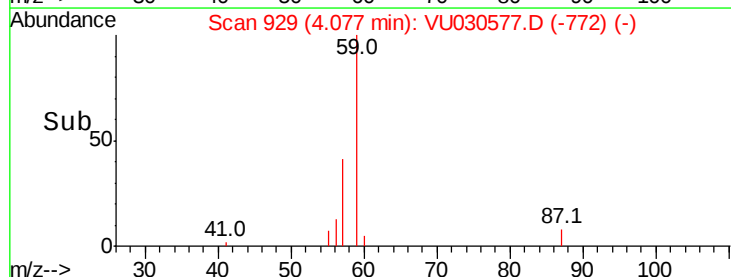
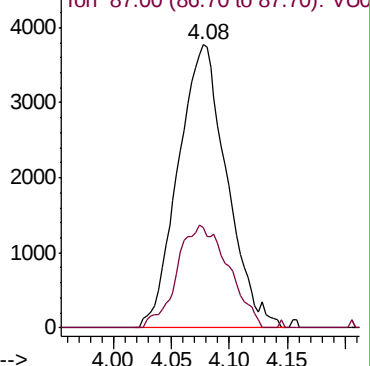
Ion Ratio Lower Upper

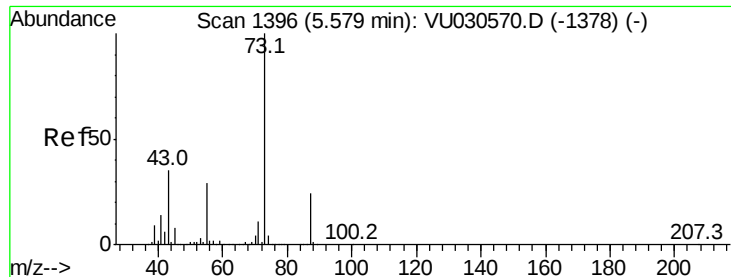
59 100

87 38.3 30.1 45.1



Abundance Ion 59.00 (58.70 to 59.70): VU030577.D (-772) (-)





#33

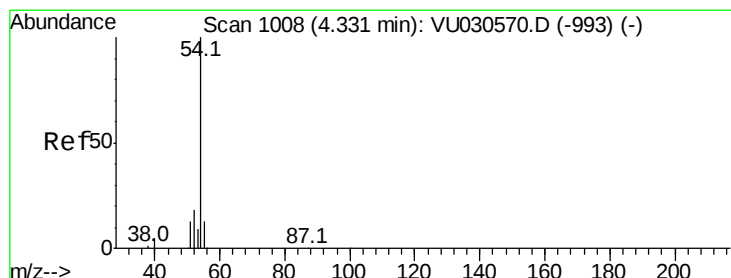
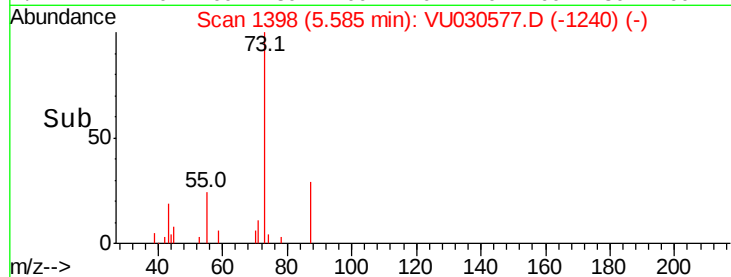
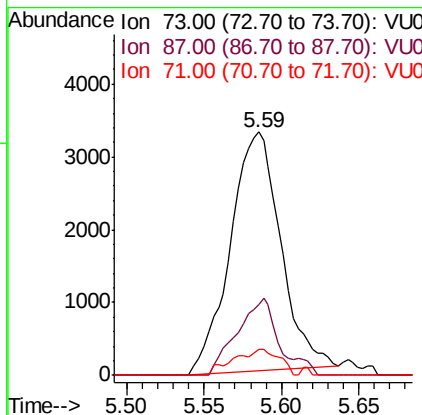
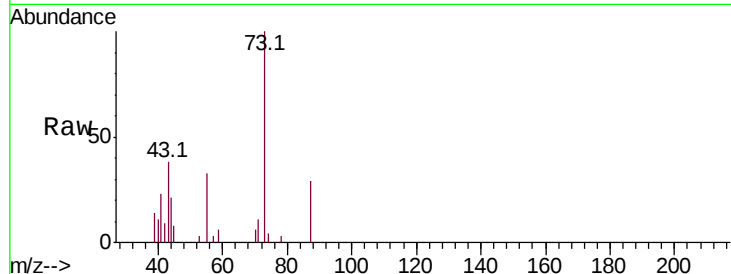
Tert-Amvl methvl ether
Concen: 0.248 ug/l
RT: 5.59 min Scan# 1398
Delta R.T. 0.01 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
73	100		
87	27.1	18.6	27.8
71	9.9	9.0	13.4

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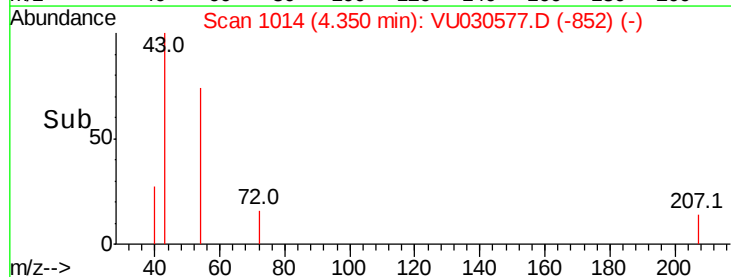
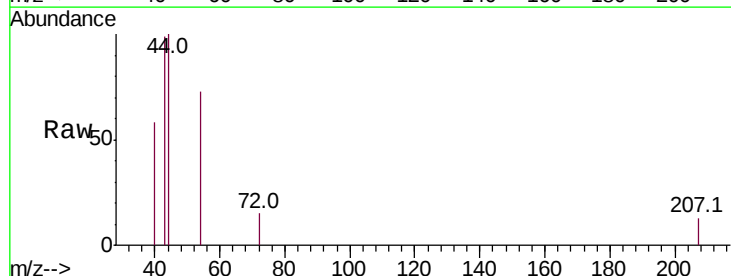
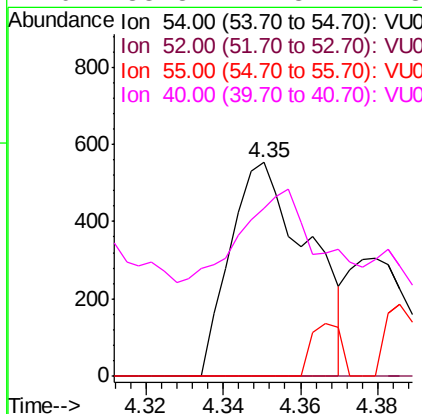
MMDadoda
4/5/2019 2:38:53 PM

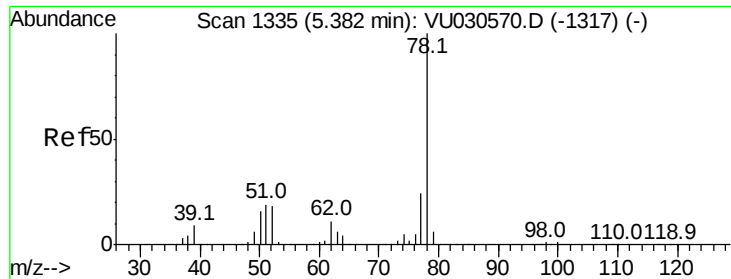


#34

Propionitrile
Concen: 0.676 ug/l
RT: 4.35 min Scan# 1014
Delta R.T. 0.02 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Tgt Ion	Ratio	Lower	Upper
54	100		
52	0.0	14.1	21.1#
55	9.3	10.4	15.6#
40	38.8	1.8	2.8#





#35

Benzene

Concen: 0.266 ug/l

RT: 5.39 min Scan# 1336

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 78 Resp: 15353

Ion Ratio Lower Upper

78 100

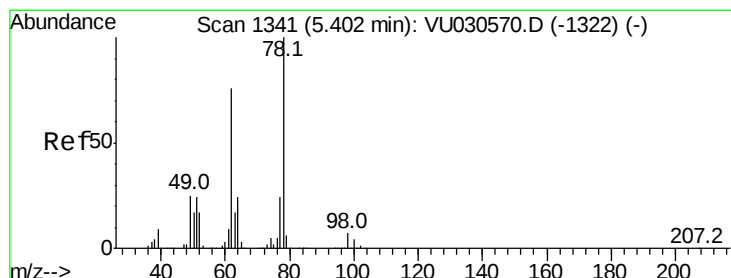
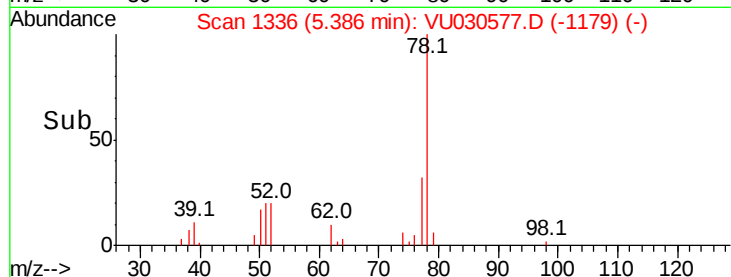
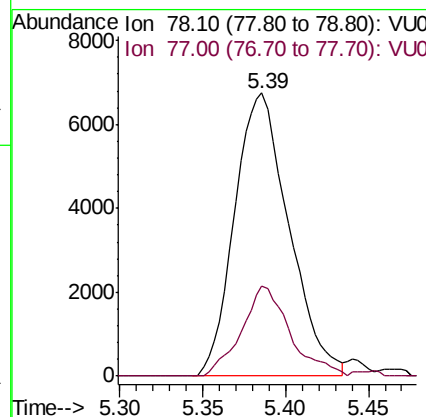
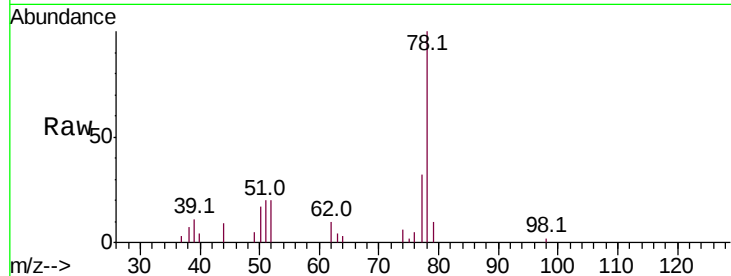
77 32.0 19.5 29.3#

Manual Integrations

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#36

1,2-Dichloroethane

Concen: 0.279 ug/l

RT: 5.41 min Scan# 1343

Delta R.T. 0.01 min

Lab File: VU030577.D

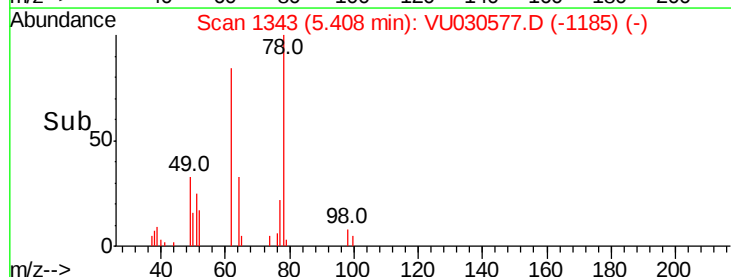
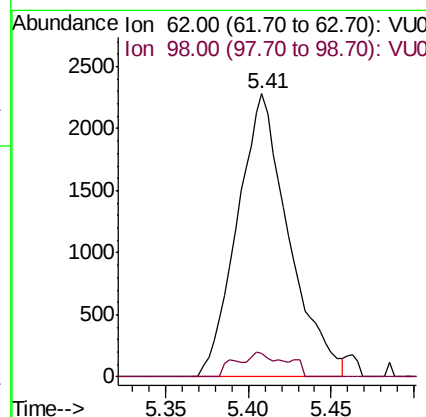
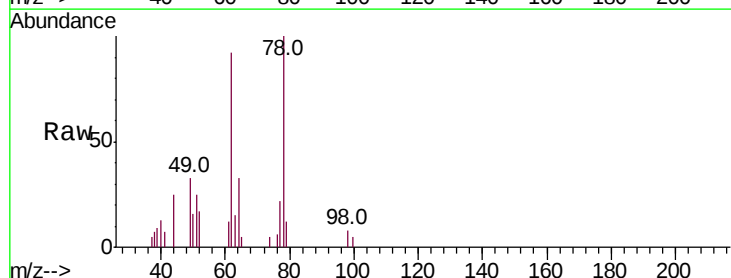
Acq: 30 Mar 2019 17:27

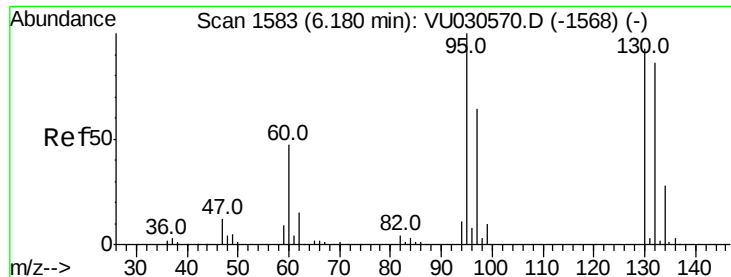
Tgt Ion: 62 Resp: 4916

Ion Ratio Lower Upper

62 100

98 6.3 6.8 10.2#





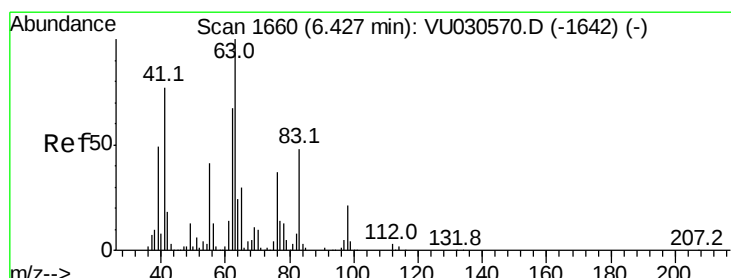
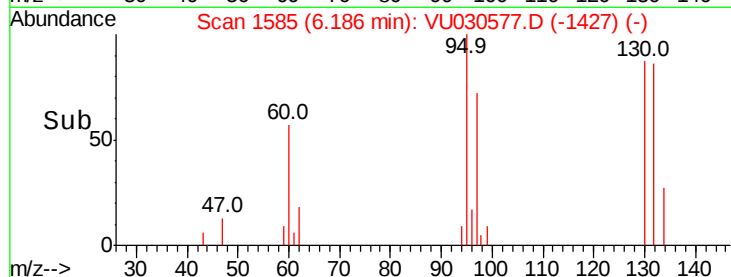
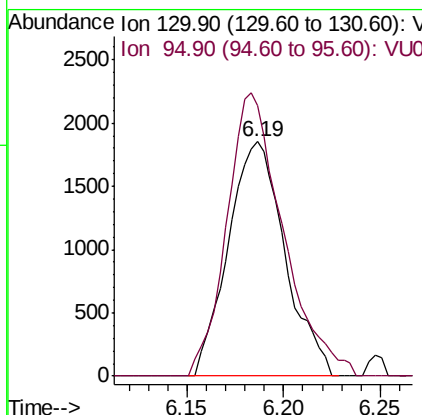
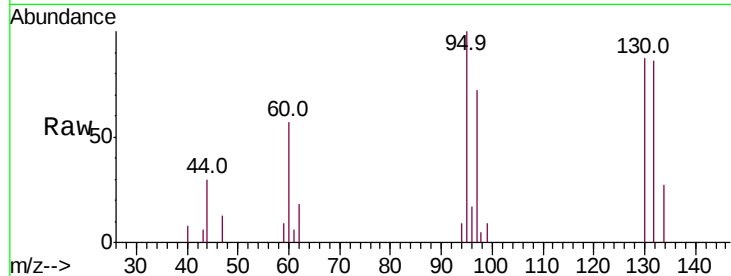
#37
 Trichloroethene
 Concen: 0.273 ug/l
 RT: 6.19 min Scan# 1585
 Delta R.T. 0.01 min
 Lab File: VU030577.D
 Acq: 30 Mar 2019 17:27

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MDL-WATER-03-QT1-2019

Tot Ion:130 Resp: 3777
 Ion Ratio Lower Upper
 130 100
 95 115.5 85.8 128.8

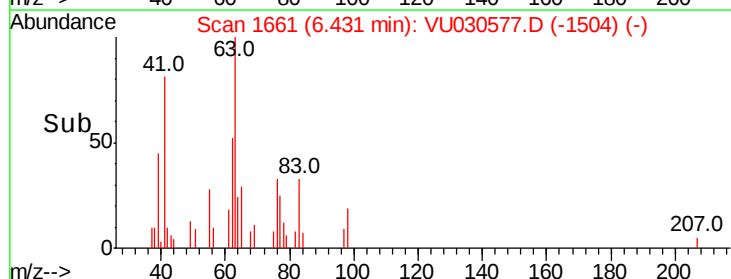
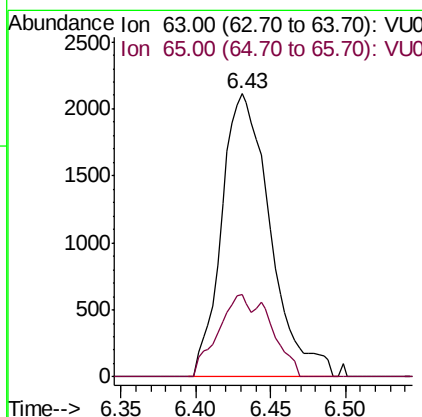
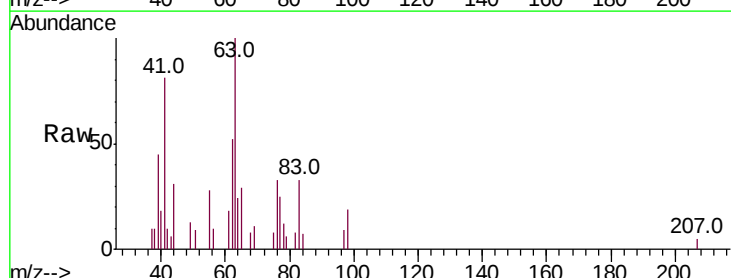
Manual Integrations
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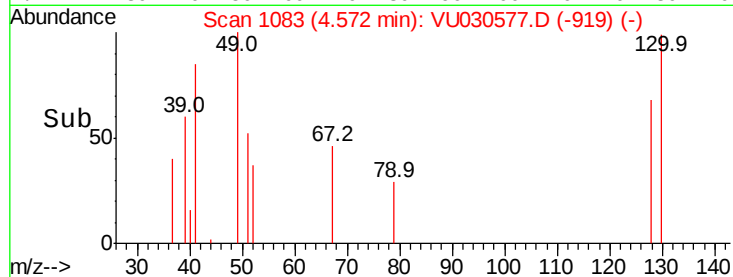
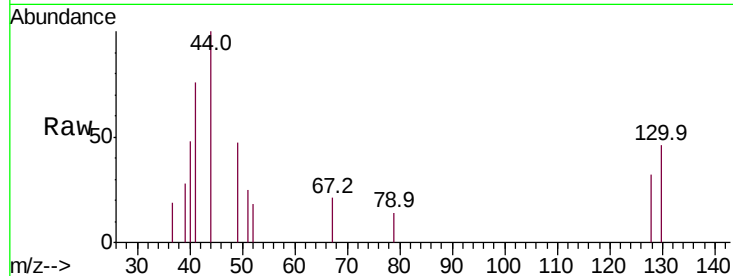
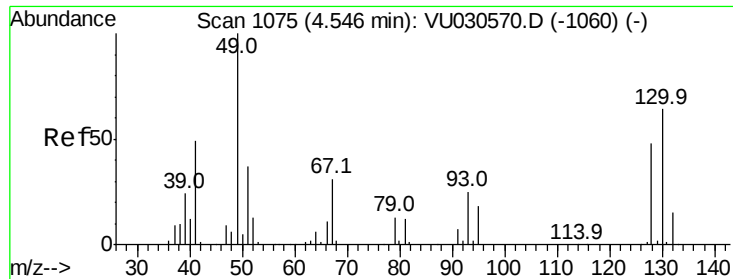
MMDadoda
 4/5/2019 2:38:53 PM



#38
 1,2-Dichloropropane
 Concen: 0.300 ug/l
 RT: 6.43 min Scan# 1661
 Delta R.T. 0.00 min
 Lab File: VU030577.D
 Acq: 30 Mar 2019 17:27

Tgt Ion: 63 Resp: 4797
 Ion Ratio Lower Upper
 63 100
 65 29.3 23.9 35.9





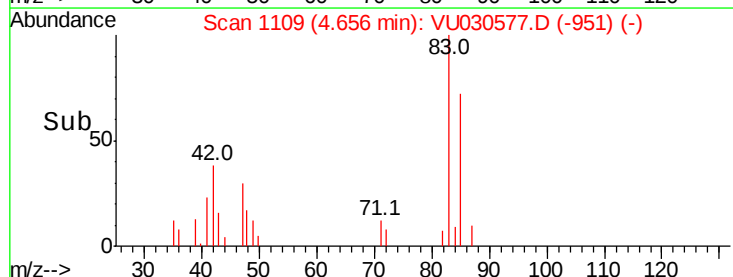
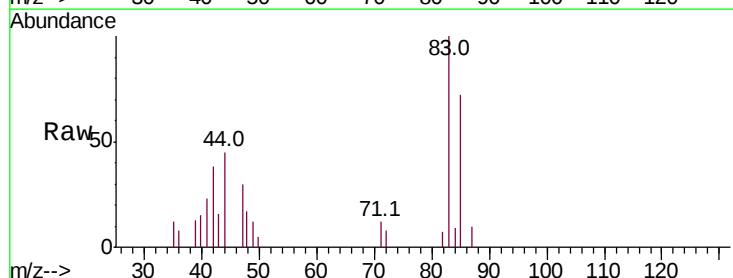
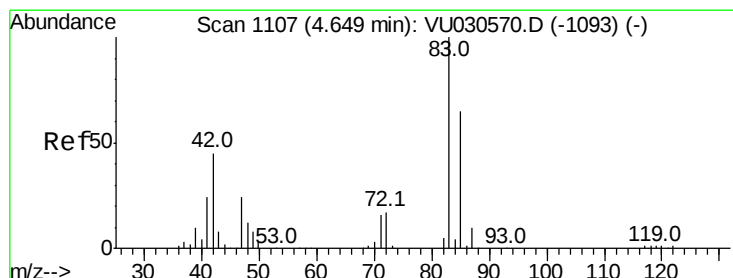
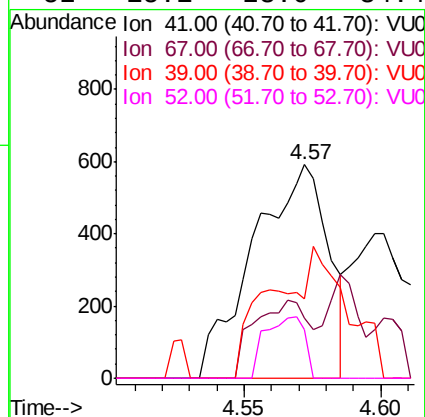
#39
Methacrylonitrile
Concen: 0.217 ug/l
RT: 4.57 min Scan# 1083
Delta R.T. 0.03 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Tot Ion	Ratio	Lower	Upper
41	100		
67	26.3	50.2	75.4#
39	31.0	40.7	61.1#
52	15.1	23.0	34.4#

Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

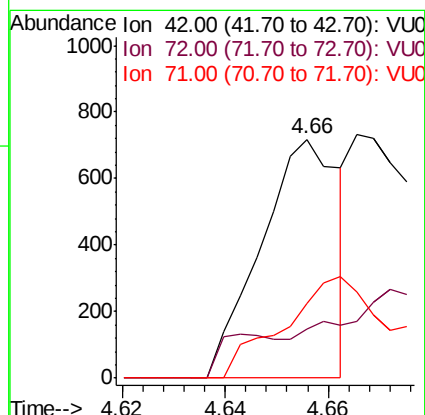
Manual Integrations
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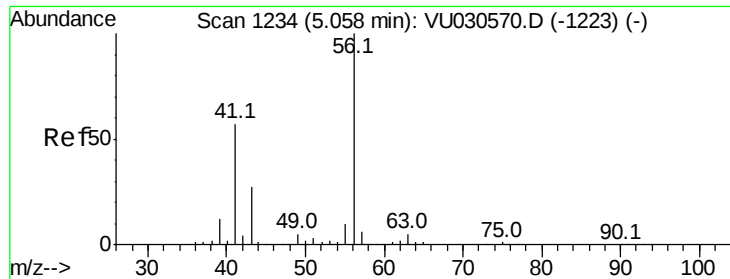
MMDadoda
4/5/2019 2:38:53 PM



#41
Tetrahydrofuran
Concen: 0.256 ug/l
RT: 4.66 min Scan# 1109
Delta R.T. 0.01 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Tgt Ion	Ratio	Lower	Upper
42	100		
72	47.3	33.4	50.0
71	48.9	28.8	43.2#





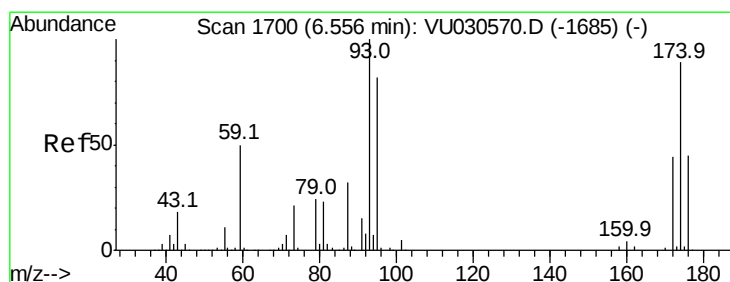
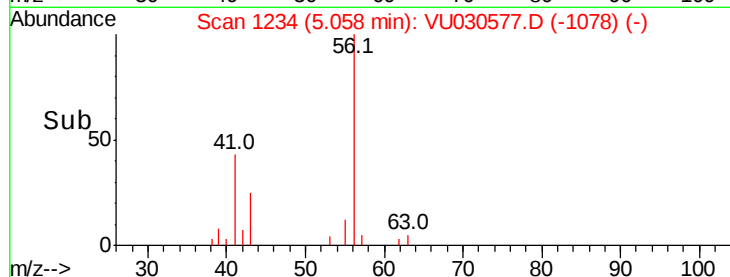
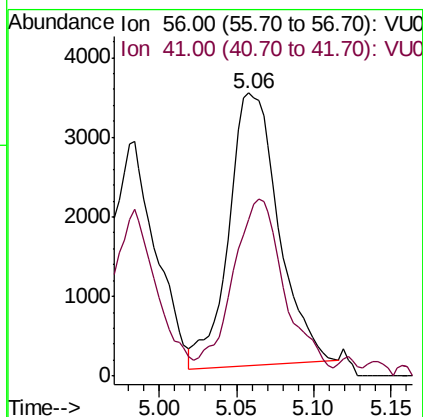
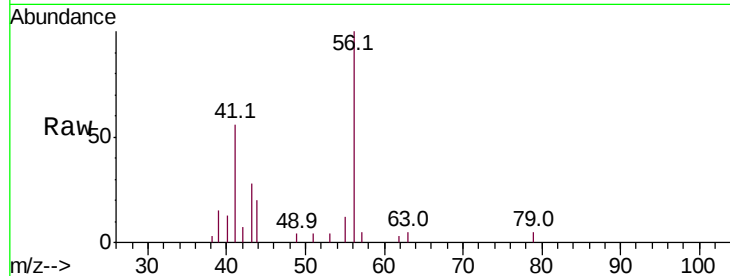
#42
1-Chlorobutane
Concen: 0.261 ug/l
RT: 5.06 min Scan# 1234
Delta R.T. 0.00 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion: 56 Resp: 7616
Ion Ratio Lower Upper
56 100
41 69.9 28.5 85.6

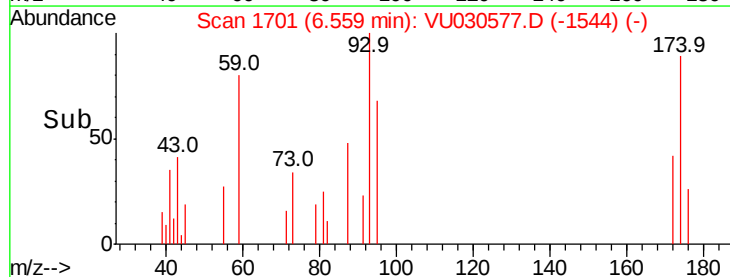
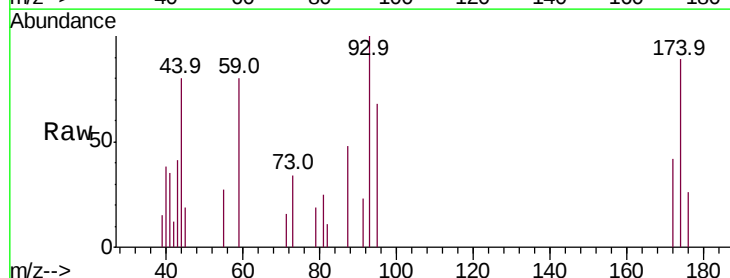
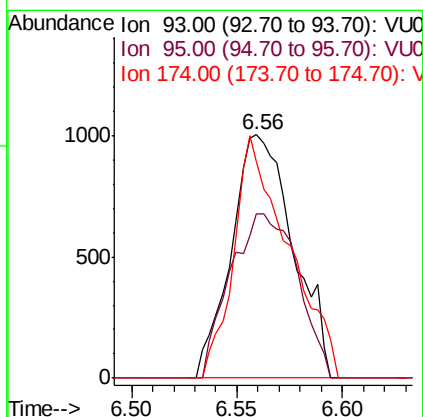
Manual Integrations
APPROVED

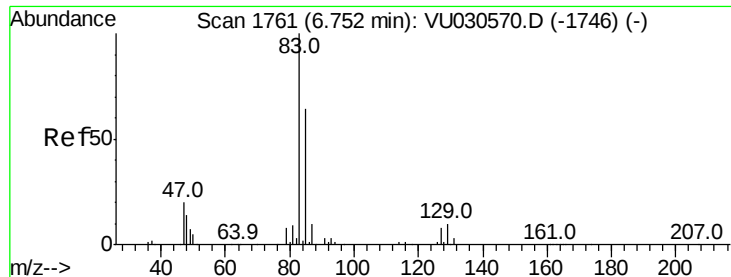
MMDadoda
4/5/2019 2:38:53 PM



#43
Dibromomethane
Concen: 0.283 ug/l
RT: 6.56 min Scan# 1701
Delta R.T. 0.00 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Tgt Ion: 93 Resp: 2053
Ion Ratio Lower Upper
93 100
95 73.4 63.9 95.9
174 87.6 71.0 106.4





#44

Bromodichloromethane

Concen: 0.297 ug/l

RT: 6.76 min Scan# 1763

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

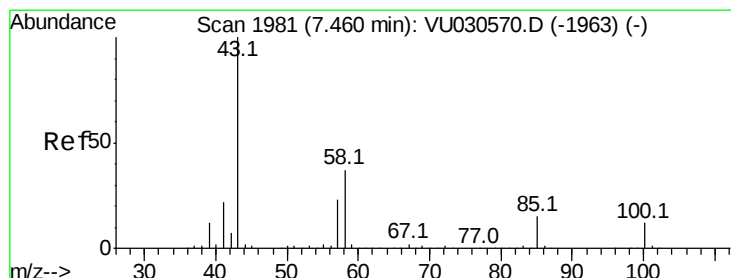
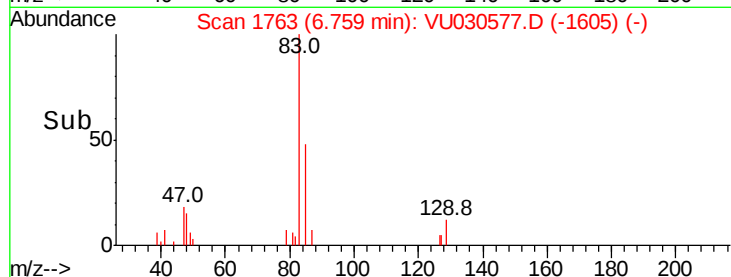
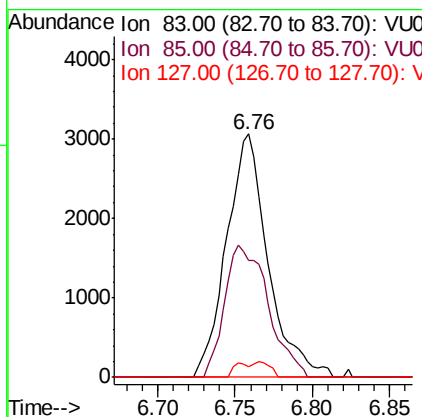
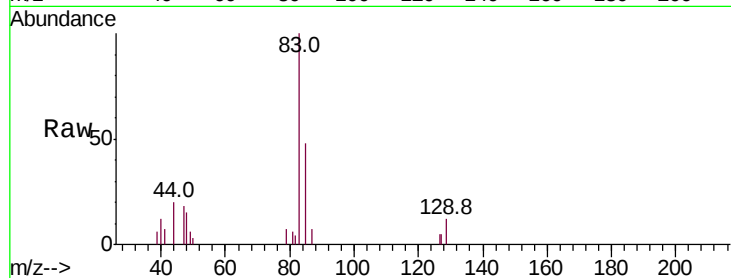
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	83	Resp:	5710
Ion	Ratio	Lower	Upper
83	100		
85	48.0	51.1	76.7#
127	4.5	6.1	9.1#

Manual Integrations
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#45

4-Methyl-2-Pentanone

Concen: 1.254 ug/l

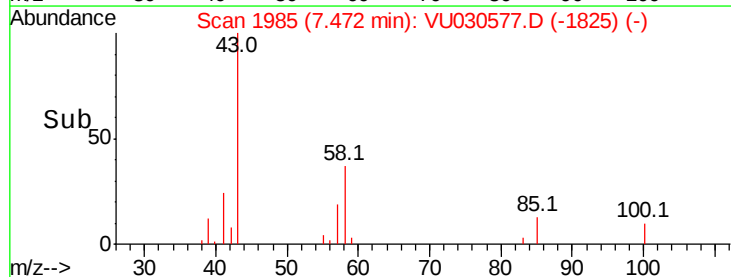
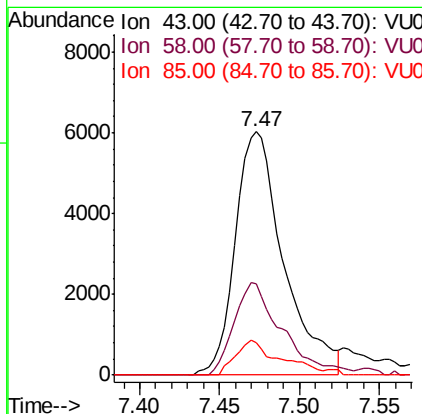
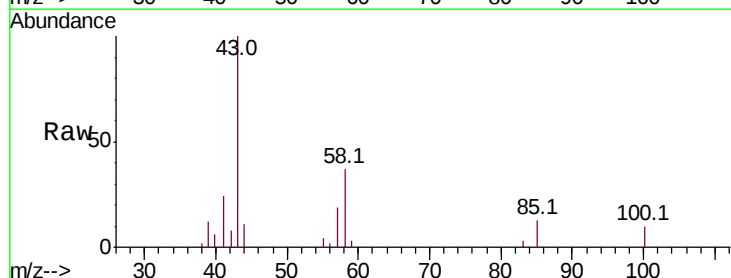
RT: 7.47 min Scan# 1985

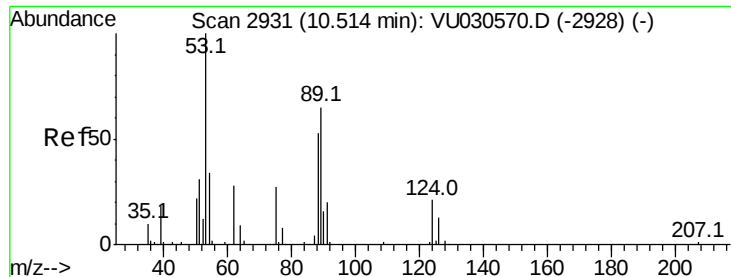
Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Tgt Ion:	43	Resp:	12508
Ion	Ratio	Lower	Upper
43	100		
58	37.6	18.6	55.8
85	13.0	11.8	17.6





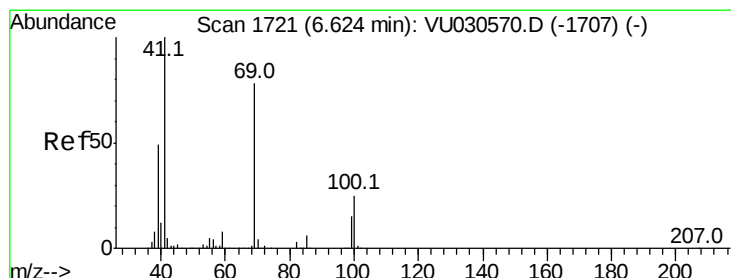
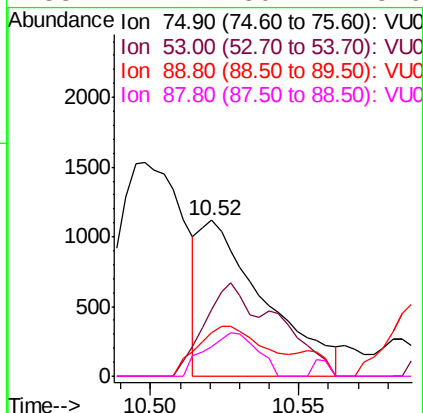
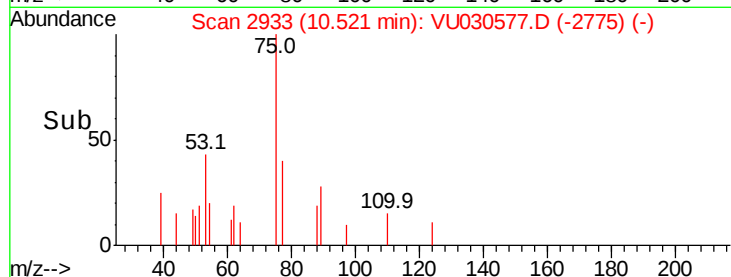
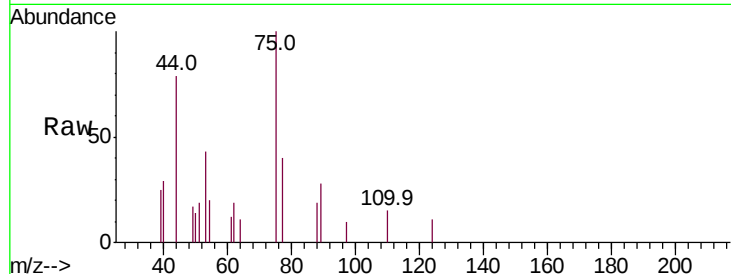
#46
t-1,4-Dichloro-2-butene
Concen: 0.532 ug/l m
RT: 10.52 min Scan# 2933
Delta R.T. 0.01 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	44.0	63.4	95.2#
89	33.0	39.1	58.7#
88	22.2	30.4	45.6#

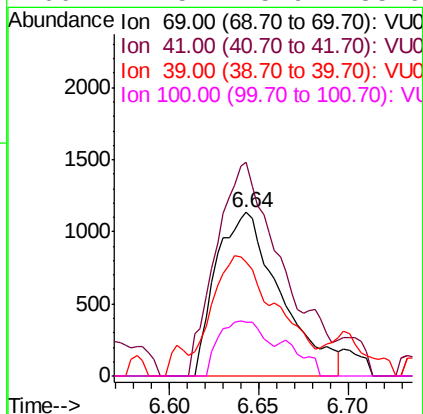
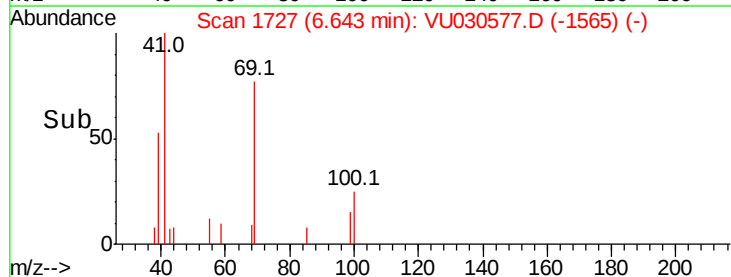
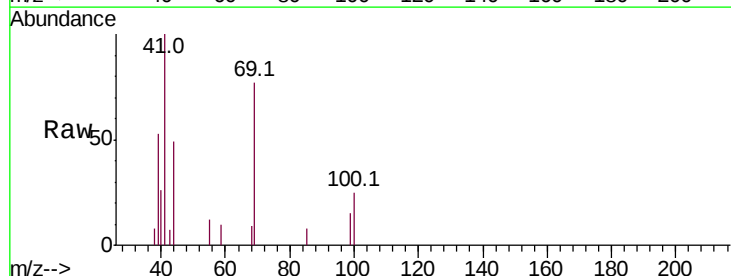
Manual Integrations
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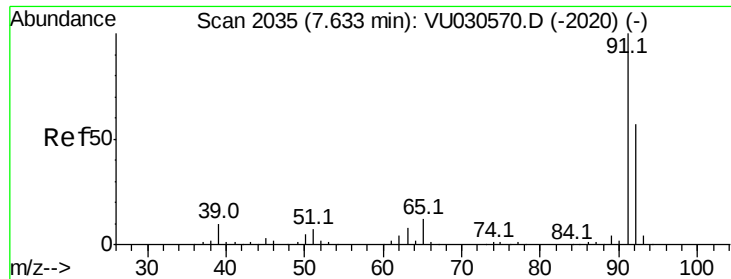
MMDadoda
4/5/2019 2:38:53 PM



#47
Methyl methacrylate
Concen: 0.465 ug/l
RT: 6.64 min Scan# 1727
Delta R.T. 0.02 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Tgt Ion	Ratio	Lower	Upper
69	100		
41	133.8	0.0	258.0
39	74.5	51.0	76.4
100	24.5	25.9	38.9#





#49

Toluene

Concen: 0.235 ug/l

RT: 7.64 min Scan# 2037

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 92 Resp: 7422

Ion Ratio Lower Upper

92 100

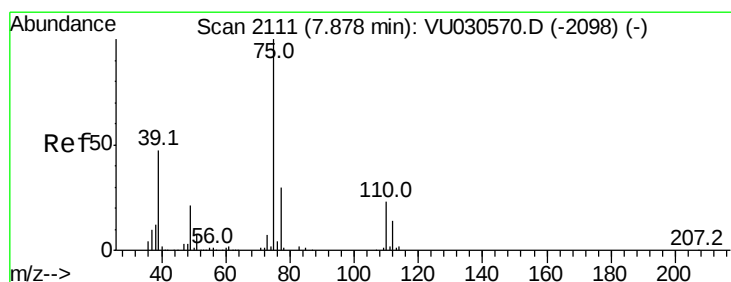
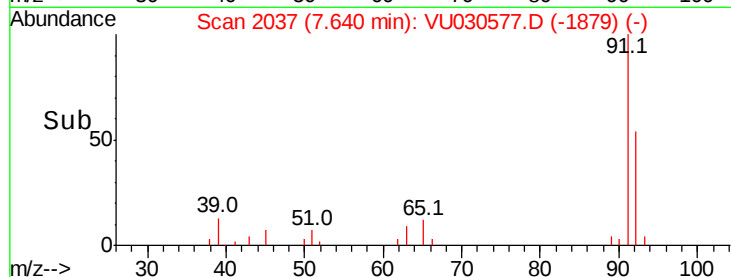
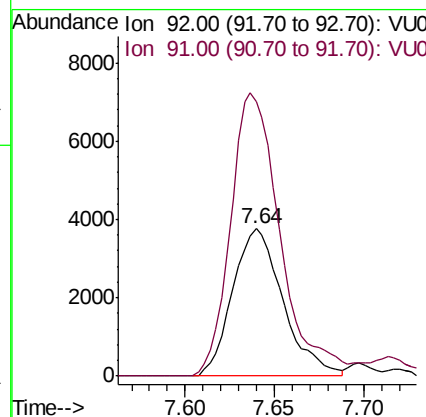
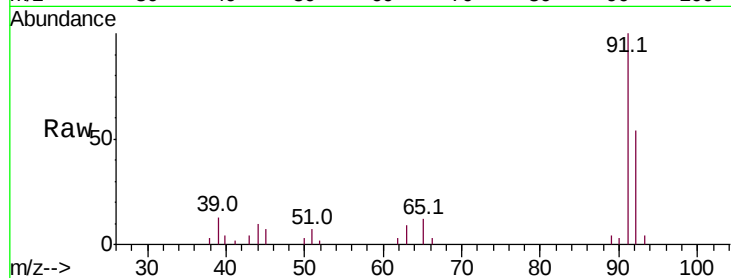
91 188.7 140.2 210.4

Manual Integrations

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#50

t-1,3-Dichloropropene

Concen: 0.240 ug/l

RT: 7.89 min Scan# 2116

Delta R.T. 0.02 min

Lab File: VU030577.D

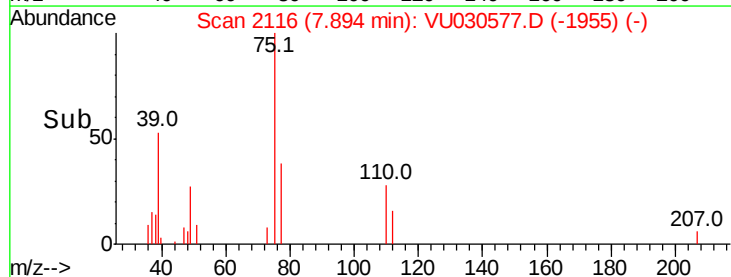
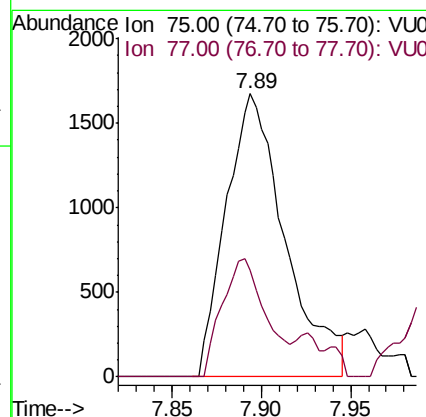
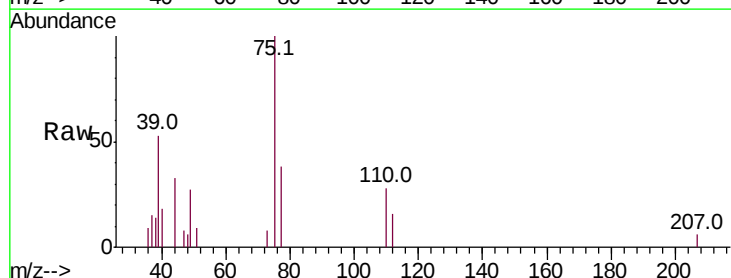
Acq: 30 Mar 2019 17:27

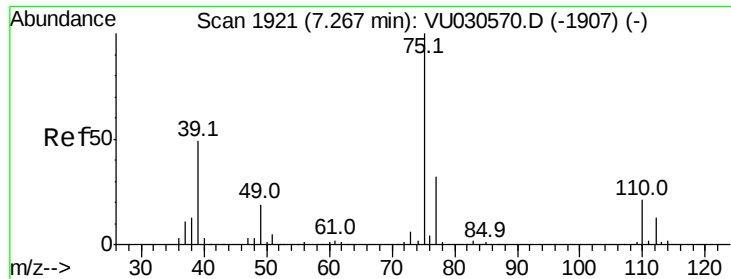
Tgt Ion: 75 Resp: 3861

Ion Ratio Lower Upper

75 100

77 37.7 24.4 36.6#





#51

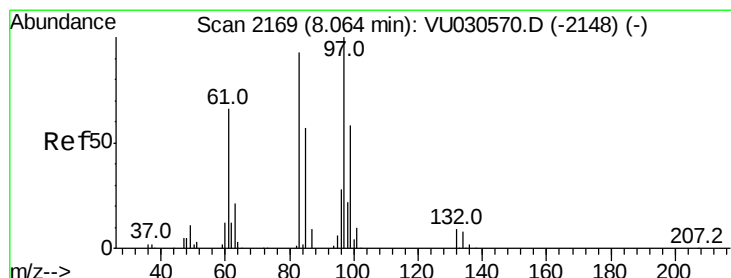
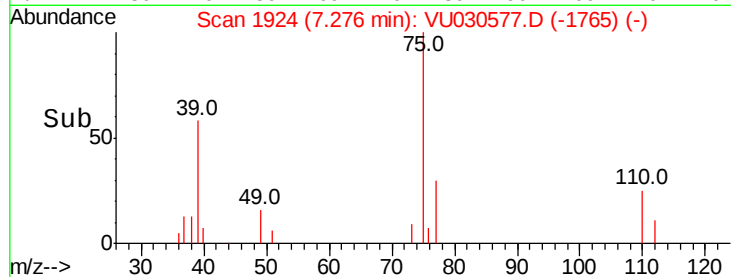
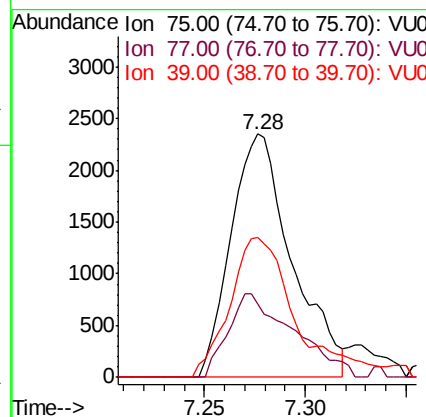
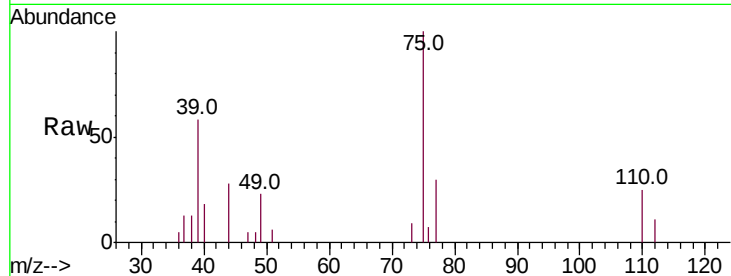
cis-1,3-Dichloropropene
Concen: 0.248 ug/l
RT: 7.28 min Scan# 1924
Delta R.T. 0.01 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.0	25.8	38.6
39	57.7	39.3	58.9

Manual Integrations
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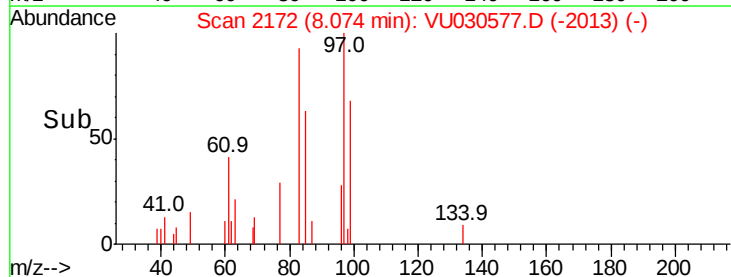
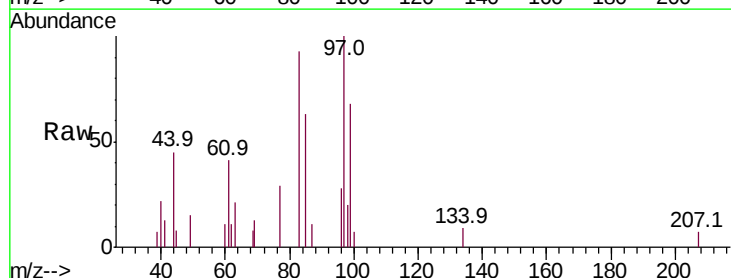
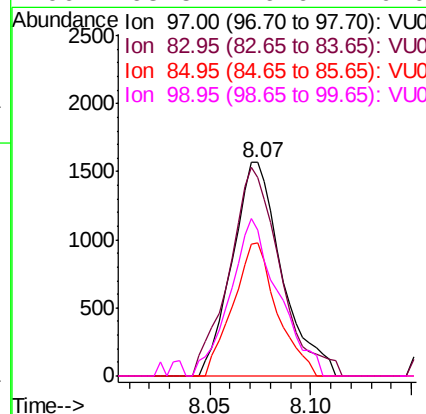
MMDadoda
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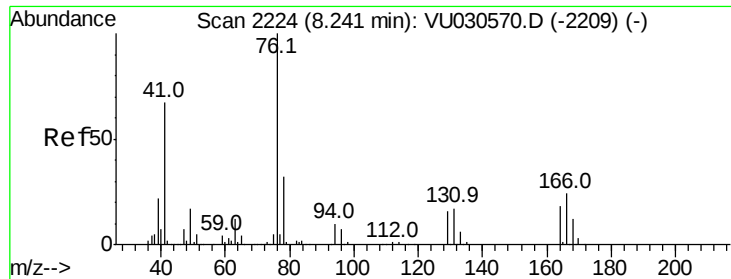


#52

1,1,2-Trichloroethane
Concen: 0.273 ug/l
RT: 8.07 min Scan# 2172
Delta R.T. 0.01 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Tgt Ion	Ratio	Lower	Upper
97	100		
83	92.7	74.3	111.5
85	62.6	45.4	68.0
99	68.5	46.6	70.0





#53

1,3-Dichloropropane

Concen: 0.261 ug/l

RT: 8.25 min Scan# 2226

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 76 Resp: 4719

Ion Ratio Lower Upper

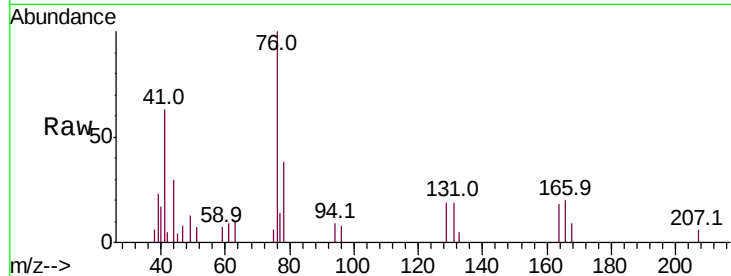
76 100

78 36.6 25.3 37.9

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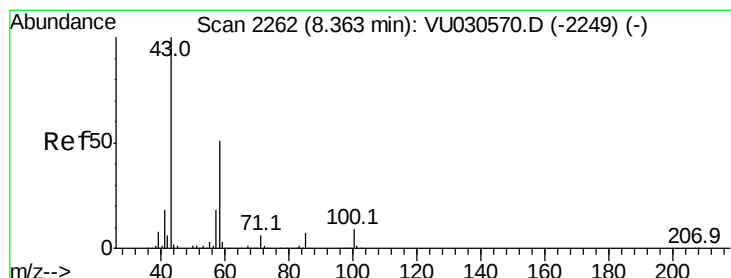
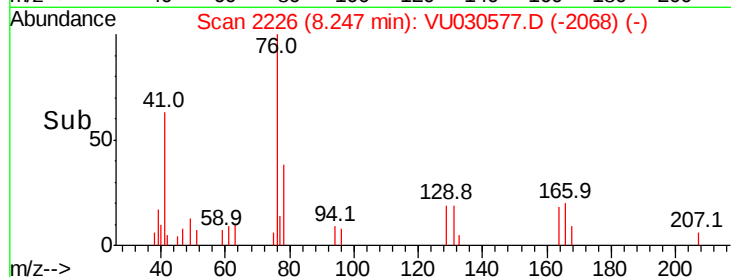
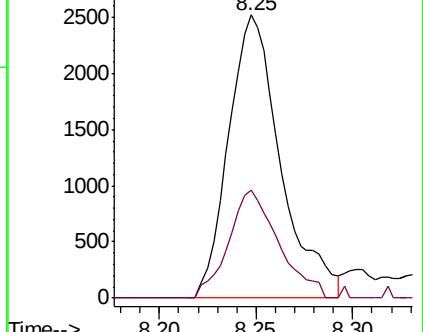
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Abundance Ion 76.00 (75.70 to 76.70): VU030577.D (-2226) (-)

Ion 78.00 (77.70 to 78.70): VU030577.D (-2226) (-)



#54

2-Hexanone

Concen: 1.383 ug/l

RT: 8.38 min Scan# 2268

Delta R.T. 0.02 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

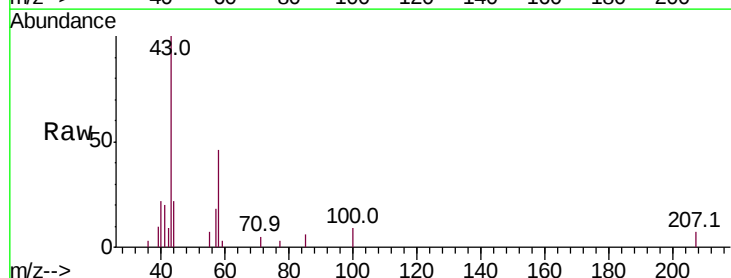
Tgt Ion: 43 Resp: 9313

Ion Ratio Lower Upper

43 100

58 42.4 32.5 72.5

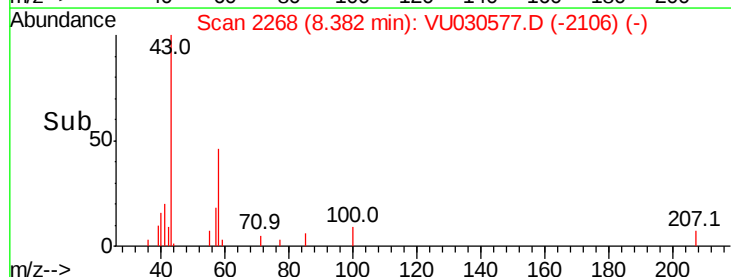
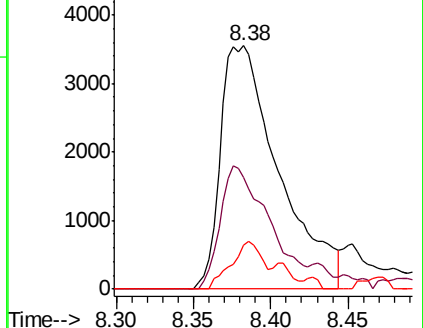
57 10.3 0.0 37.6

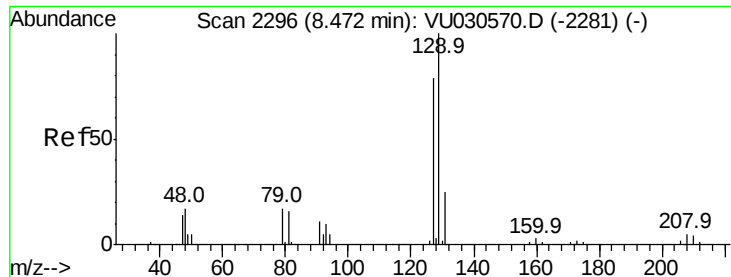


Abundance Ion 43.00 (42.70 to 43.70): VU030577.D (-2268) (-)

Ion 58.00 (57.70 to 58.70): VU030577.D (-2268) (-)

Ion 57.00 (56.70 to 57.70): VU030577.D (-2268) (-)





#55

Dibromochloromethane

Concen: 0.296 ug/l

RT: 8.48 min Scan# 2297

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:129 Resp: 3389

Ion Ratio Lower Upper

129 100

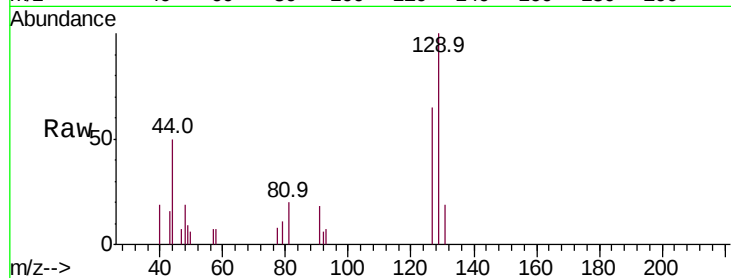
127 64.3 62.2 93.4

Manual Integrations

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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

8.48

1500

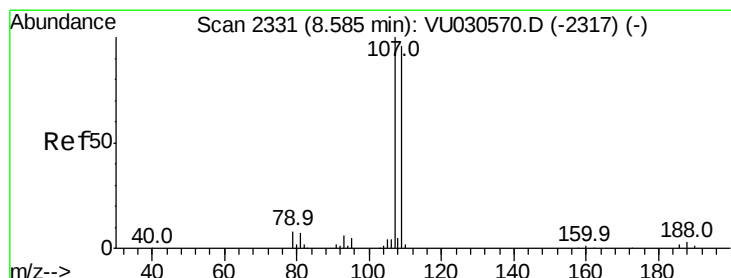
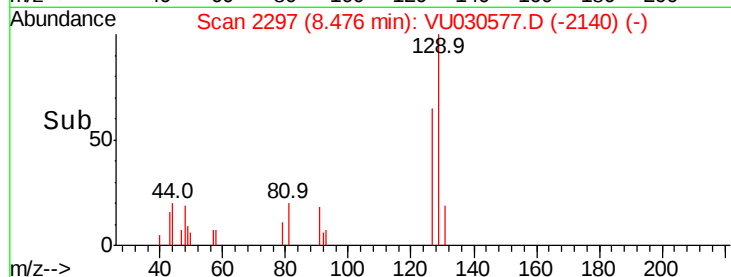
1000

500

0

8.45 8.50 8.55

Time-->



#56

1,2-Dibromoethane

Concen: 0.298 ug/l

RT: 8.59 min Scan# 2332

Delta R.T. 0.00 min

Lab File: VU030577.D

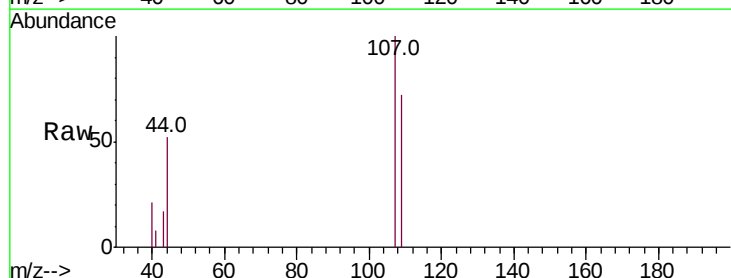
Acq: 30 Mar 2019 17:27

Tgt Ion:107 Resp: 2737

Ion Ratio Lower Upper

107 100

109 78.3 0.0 190.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

8.59

1500

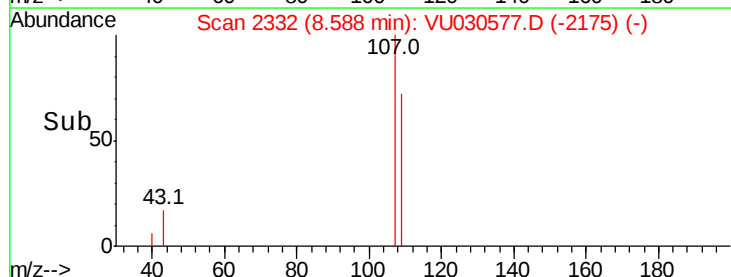
1000

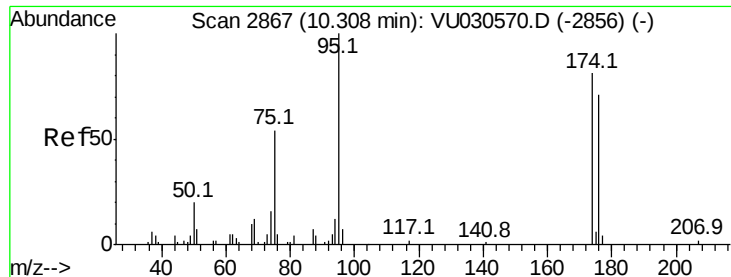
500

0

8.55 8.60 8.65

Time-->





#57

4-Bromofluorobenzene

Concen: 0.298 ug/l

RT: 10.31 min Scan# 2868

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

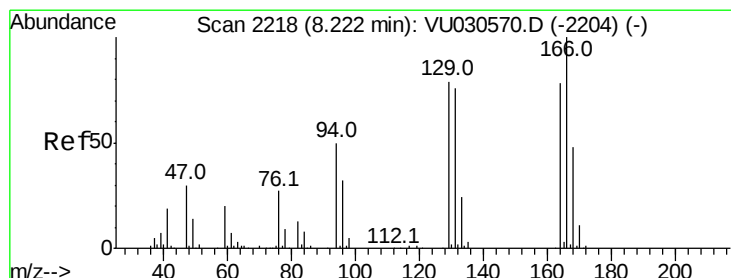
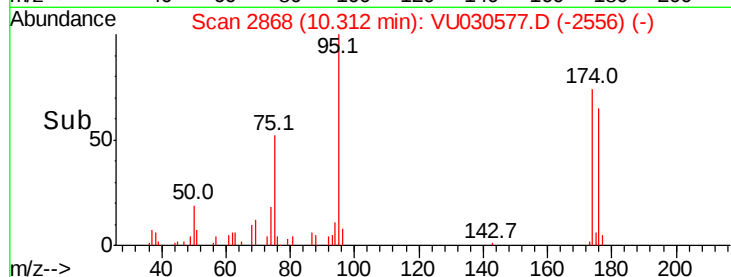
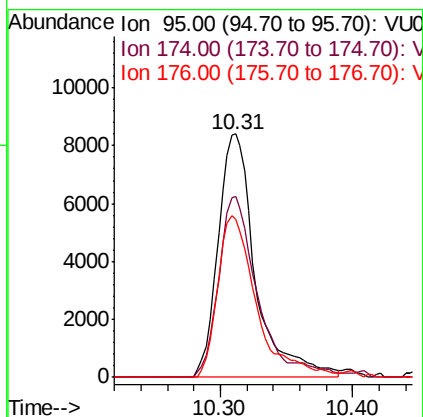
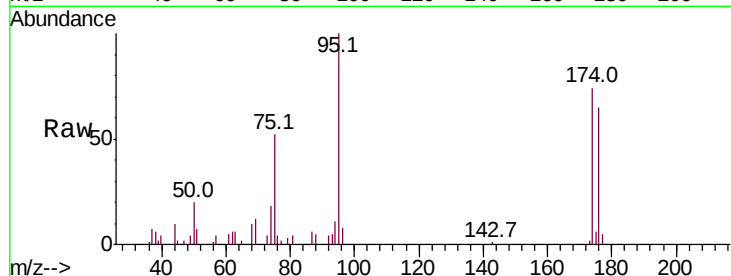
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	95	Resp:	16487
Ion Ratio	Lower	Upper	
95	100		
174	72.9	60.5	90.7
176	68.8	57.9	86.9

Manual Integrations
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#58

Tetrachloroethene

Concen: 0.297 ug/l

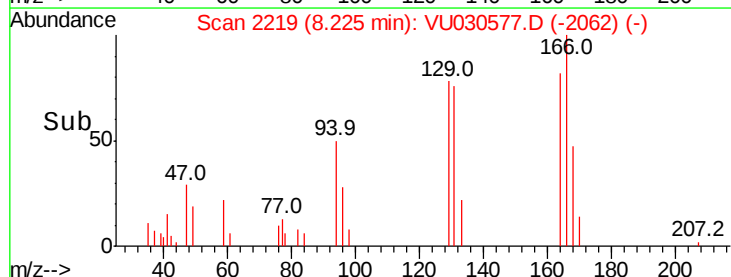
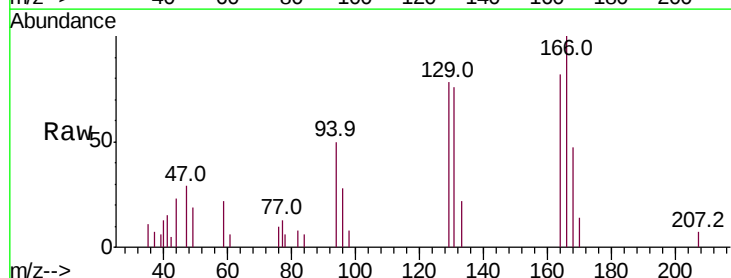
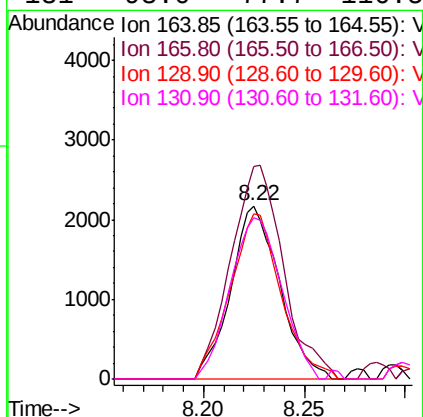
RT: 8.22 min Scan# 2219

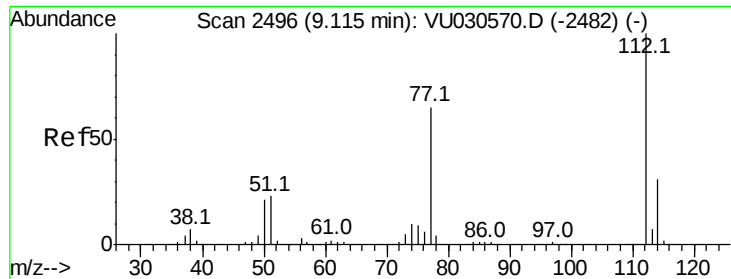
Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Tgt Ion:	164	Resp:	3683
Ion Ratio	Lower	Upper	
164	100		
166	122.2	102.4	153.6
129	95.6	81.4	122.0
131	93.0	77.7	116.5





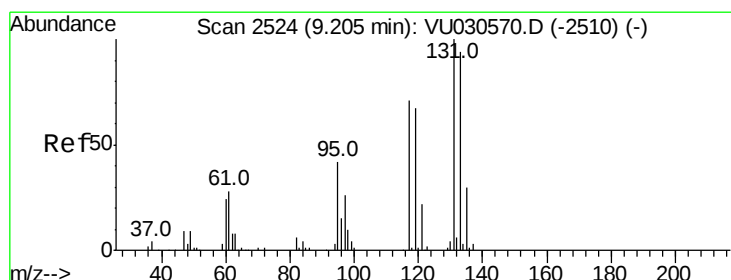
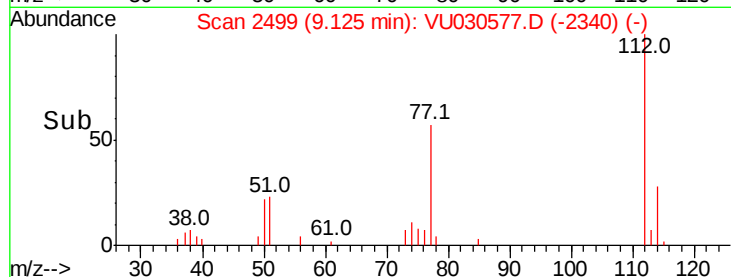
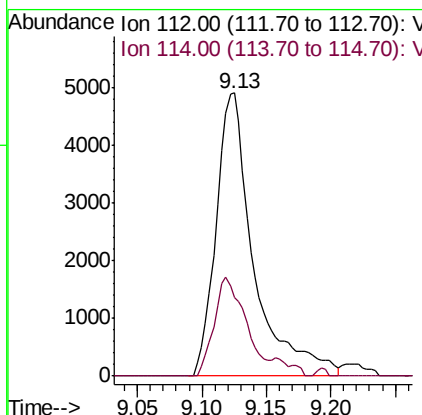
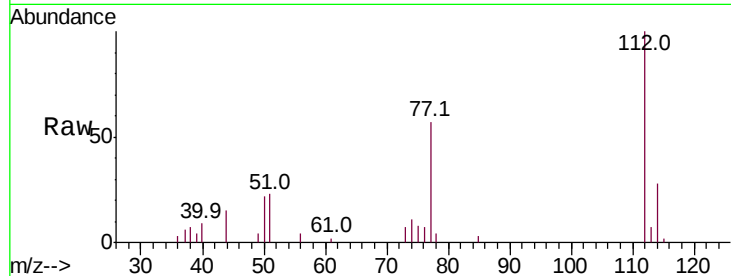
#59
Chlorobenzene
Concen: 0.292 ug/l
RT: 9.13 min Scan# 2499
Delta R.T. 0.01 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion:112 Resp: 9969
Ion Ratio Lower Upper
112 100
114 27.9 24.9 37.3

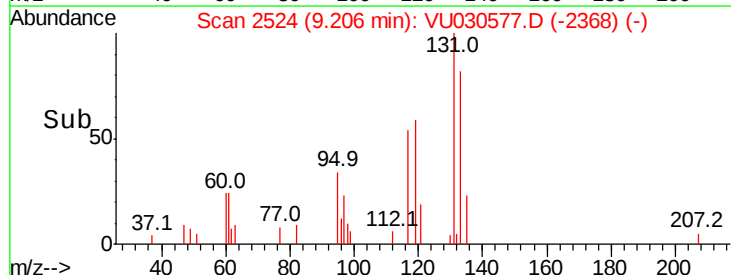
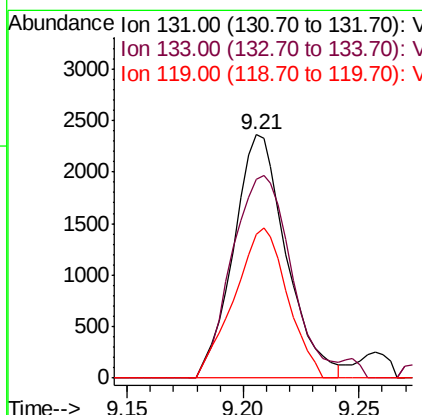
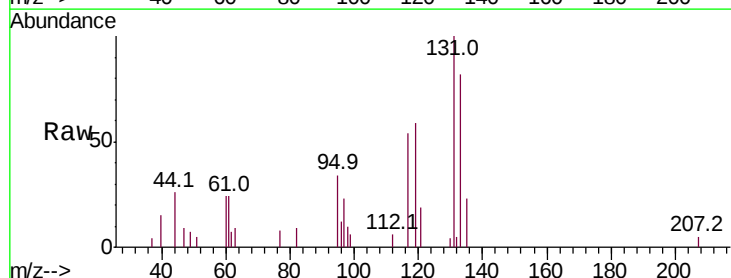
Manual Integrations
APPROVED

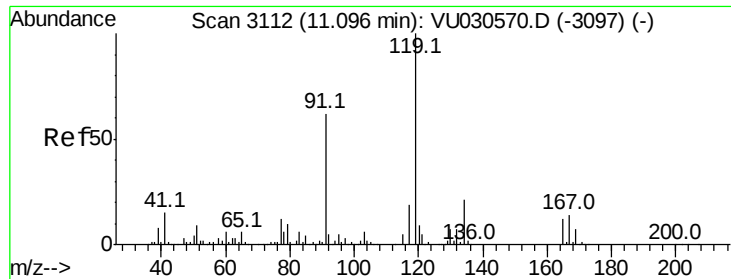
MMDadoda
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#60
1,1,1,2-Tetrachloroethane
Concen: 0.294 ug/l
RT: 9.21 min Scan# 2524
Delta R.T. 0.00 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Tgt Ion:131 Resp: 3730
Ion Ratio Lower Upper
131 100
133 93.8 77.5 116.3
119 62.2 53.2 79.8





#61

Pentachloroethane

Concen: 0.284 ug/l

RT: 11.10 min Scan# 3114

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:117 Resp: 2771

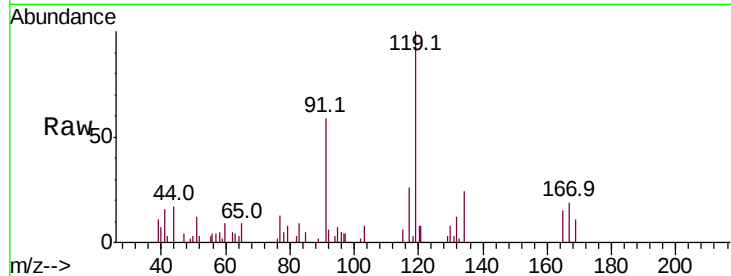
Ion Ratio Lower Upper

117 100

167 70.9 62.6 93.8

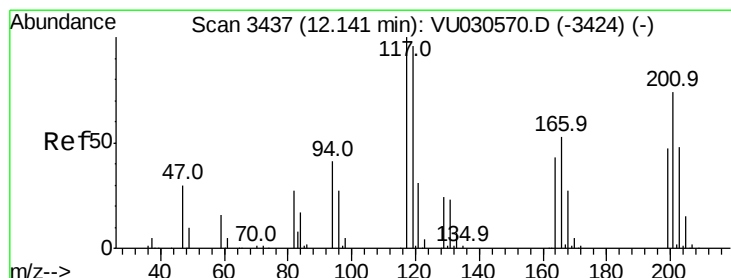
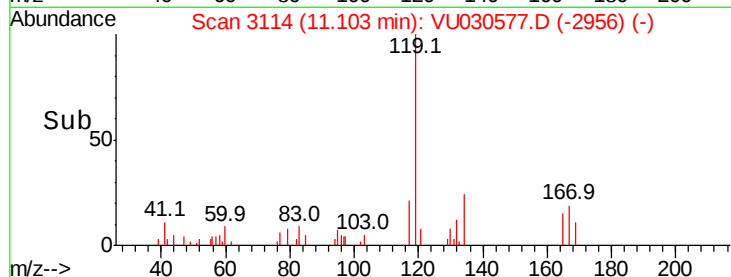
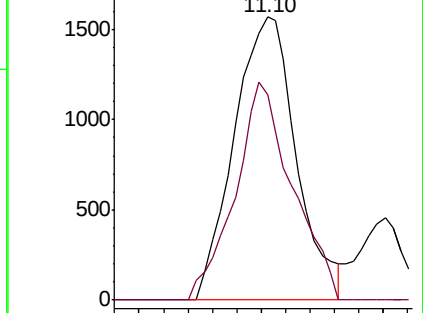
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Abundance Ion 116.80 (116.50 to 117.50): V

Ion 166.70 (166.40 to 167.40): V



#62

Hexachloroethane

Concen: 0.278 ug/l

RT: 12.15 min Scan# 3439

Delta R.T. 0.01 min

Lab File: VU030577.D

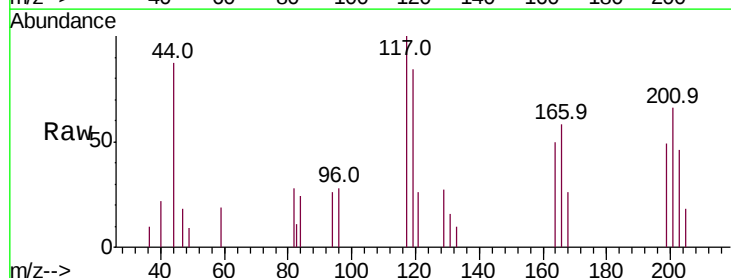
Acq: 30 Mar 2019 17:27

Tgt Ion:117 Resp: 2368

Ion Ratio Lower Upper

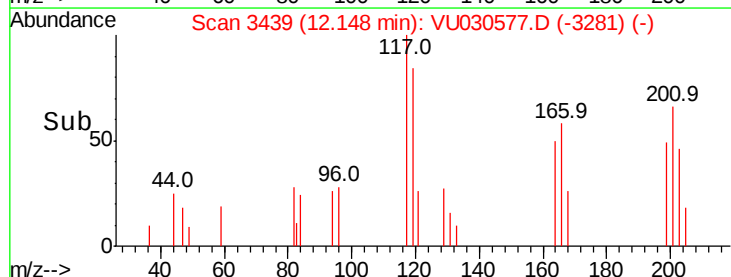
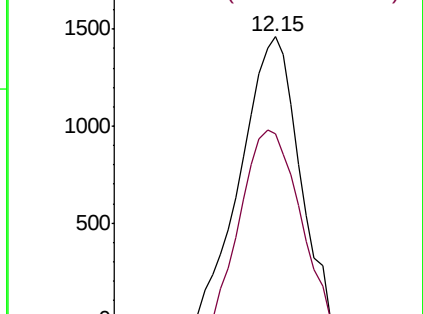
117 100

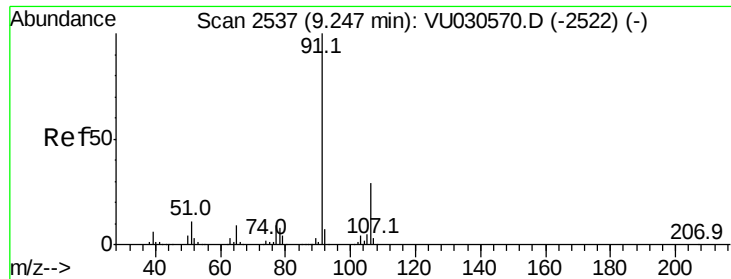
201 66.7 59.1 88.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.60 (200.30 to 201.30): V





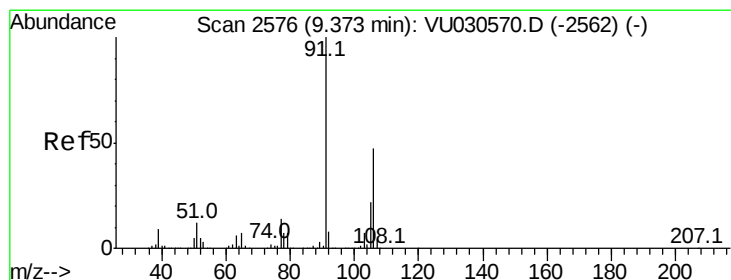
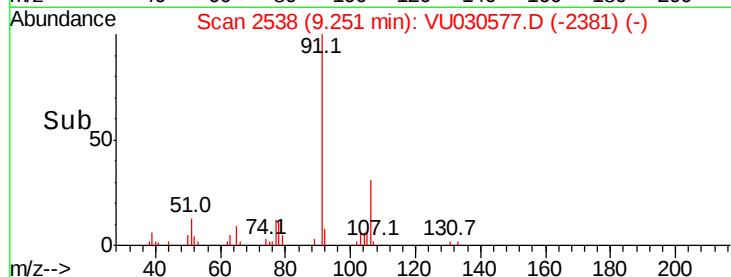
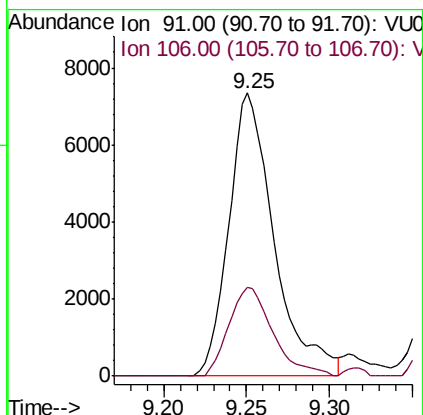
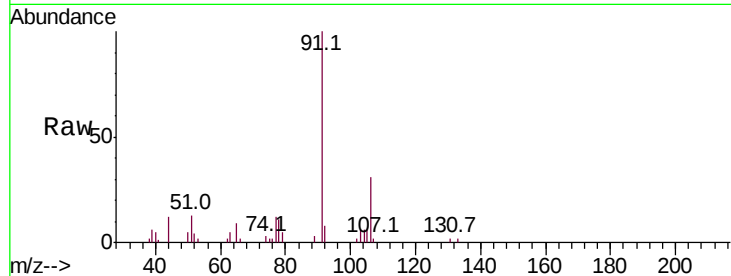
#63
Ethyl Benzene
Concen: 0.230 ug/l
RT: 9.25 min Scan# 2538
Delta R.T. 0.00 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion: 91 Resp: 13986
Ion Ratio Lower Upper
91 100
106 31.2 23.1 34.7

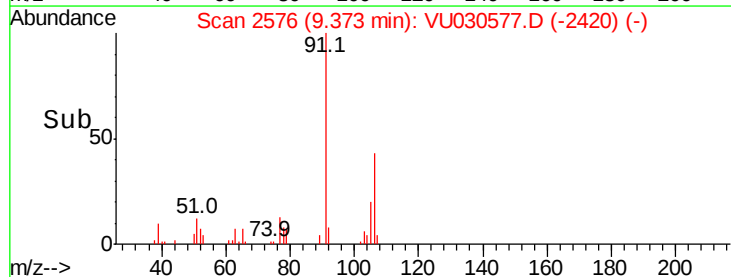
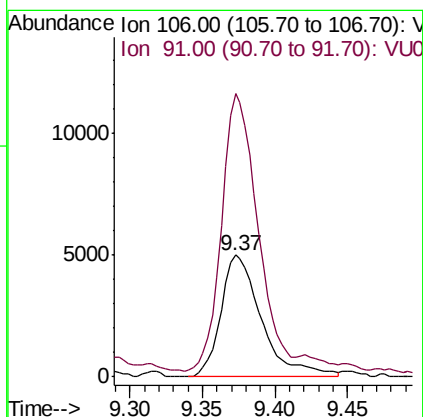
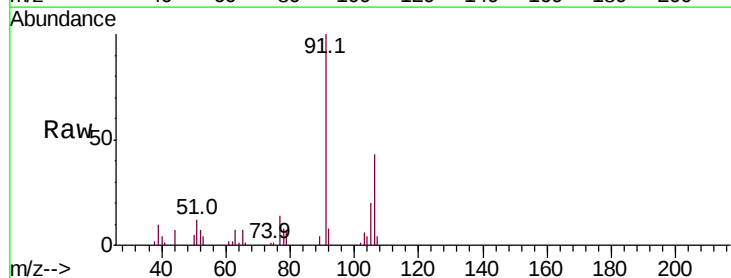
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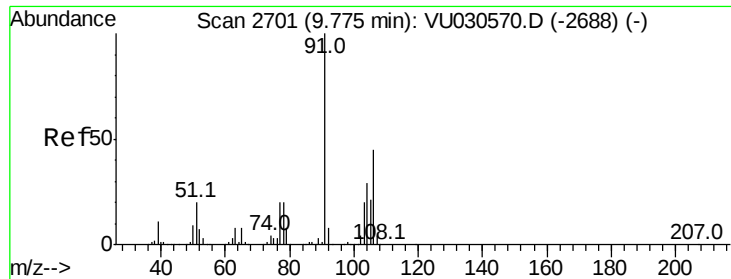
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#64
m/p-Xylenes
Concen: 0.442 ug/l
RT: 9.37 min Scan# 2576
Delta R.T. 0.00 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Tgt Ion: 106 Resp: 9804
Ion Ratio Lower Upper
106 100
91 201.3 179.4 269.0





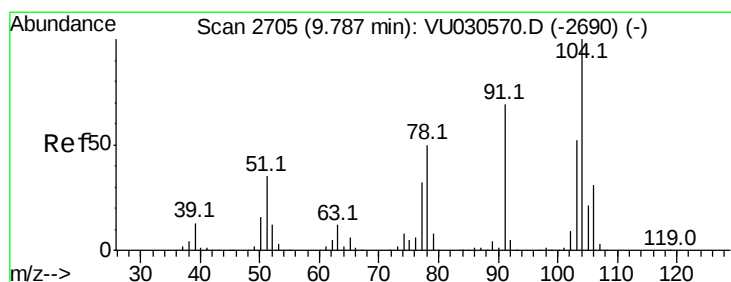
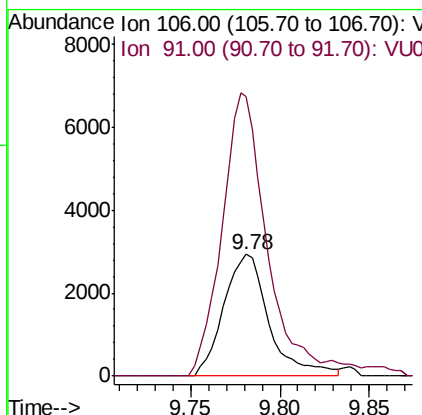
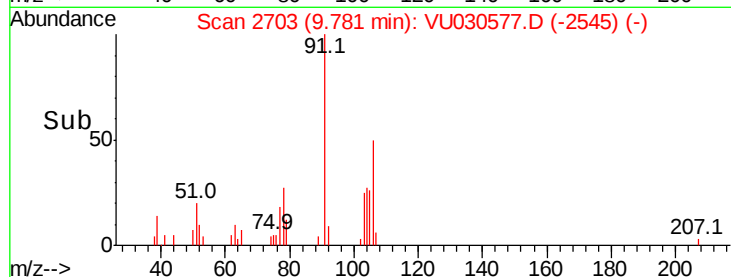
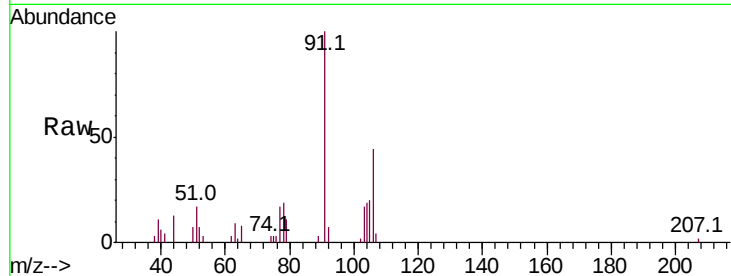
#65
o-Xylene
Concen: 0.243 ug/l
RT: 9.78 min Scan# 2703
Delta R.T. 0.01 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion:106 Resp: 5178
Ion Ratio Lower Upper
106 100
91 225.7 115.5 346.4

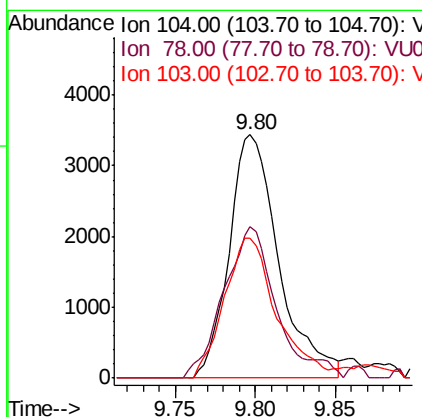
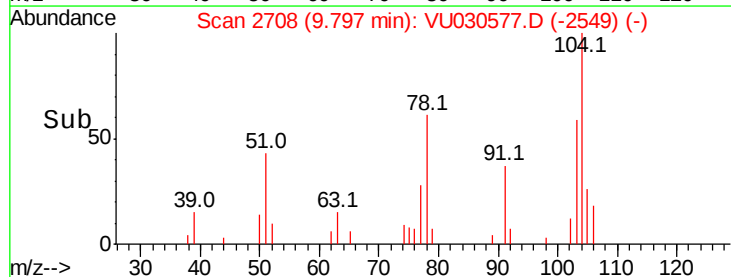
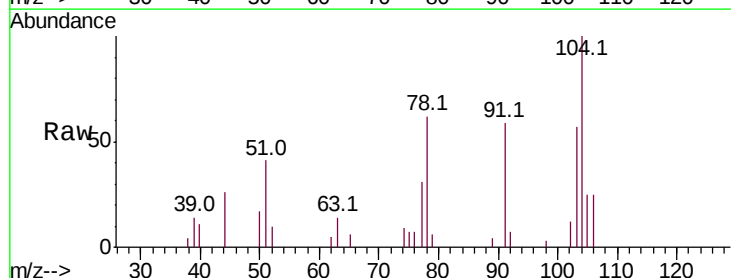
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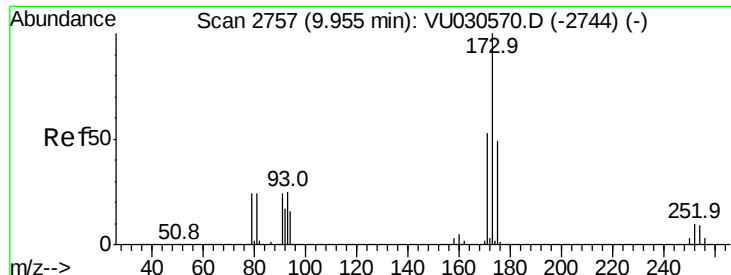
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#66
Styrene
Concen: 0.203 ug/l
RT: 9.80 min Scan# 2708
Delta R.T. 0.01 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Tgt Ion:104 Resp: 7320
Ion Ratio Lower Upper
104 100
78 65.7 42.3 63.5#
103 60.0 44.7 67.1





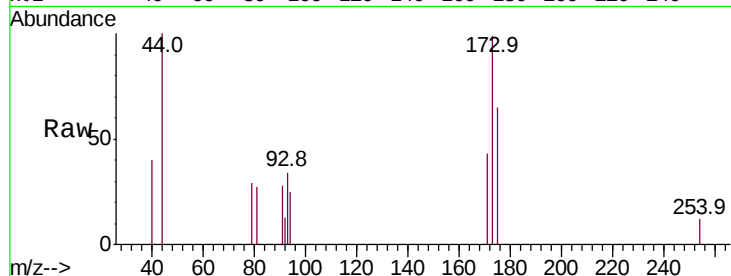
#67
Bromoform
Concen: 0.261 ug/l
RT: 9.96 min Scan# 2758
Delta R.T. 0.00 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

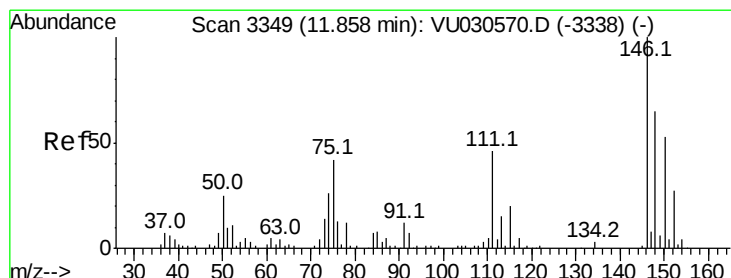
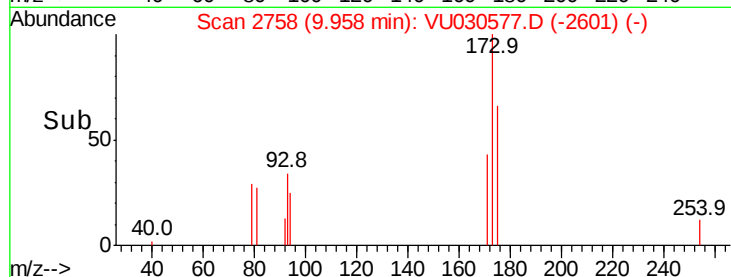
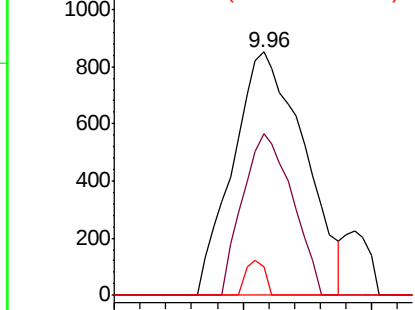
Tot Ion:173 Resp: 1639
Ion Ratio Lower Upper
173 100
175 46.6 38.6 57.8
254 3.8 6.9 10.3#

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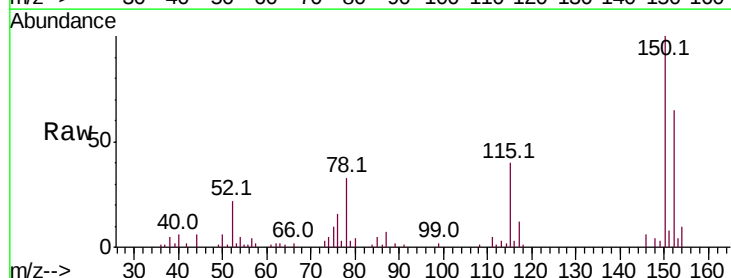


Abundance Ion 172.90 (172.60 to 173.60): V
Ion 174.90 (174.60 to 175.60): V
Ion 253.75 (253.45 to 254.45): V

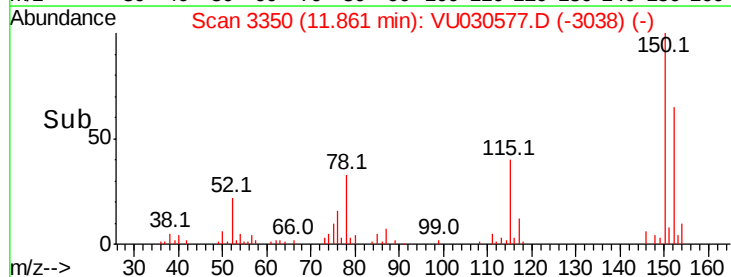
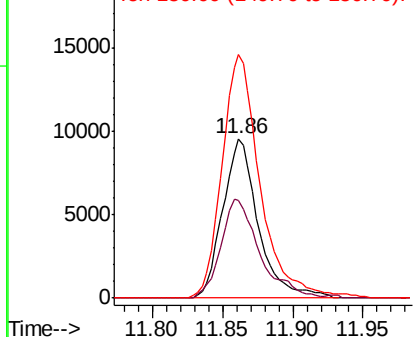


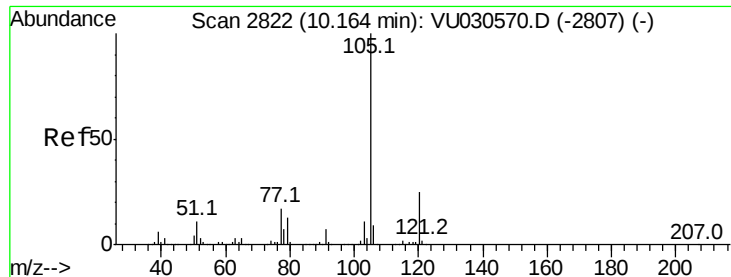
#68
1,2-Dichlorobenzene-d4
Concen: 0.261 ug/l
RT: 11.86 min Scan# 3350
Delta R.T. 0.00 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Tgt Ion:152 Resp: 16760
Ion Ratio Lower Upper
152 100
115 67.4 0.0 136.2
150 163.9 0.0 634.6



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: 0.230 ug/l

RT: 10.17 min Scan# 2823

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:105 Resp: 13388

Ion Ratio Lower Upper

105 100

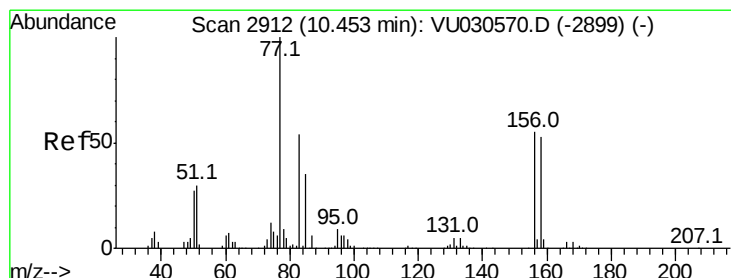
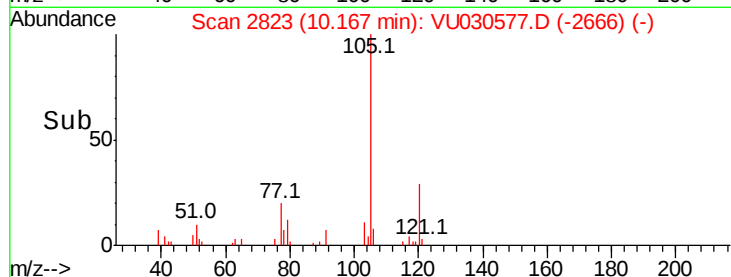
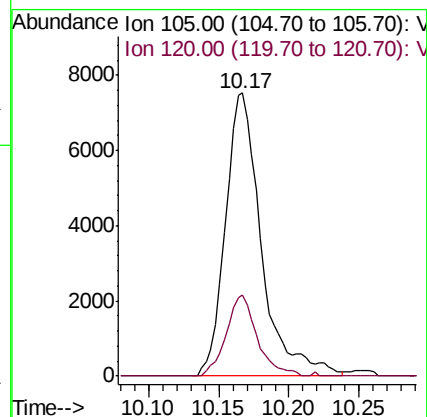
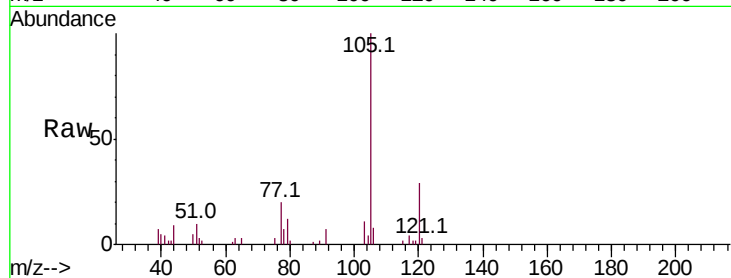
120 24.7 12.6 37.6

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#70

1,1,2,2-Tetrachloroethane

Concen: 0.316 ug/l

RT: 10.46 min Scan# 2914

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

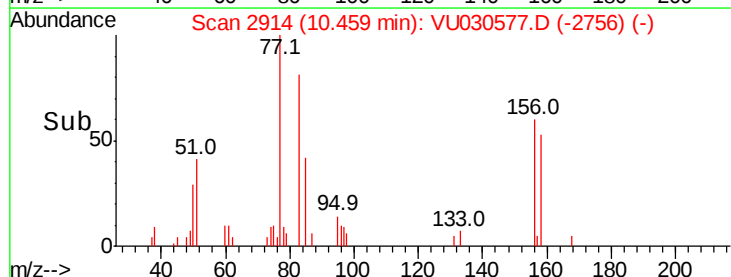
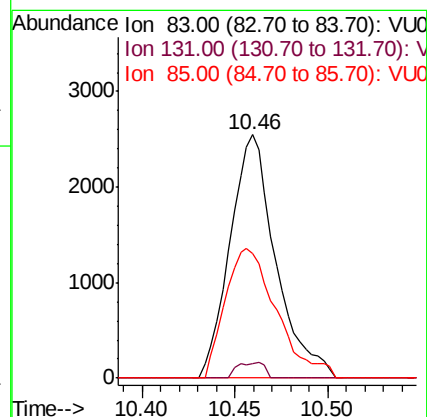
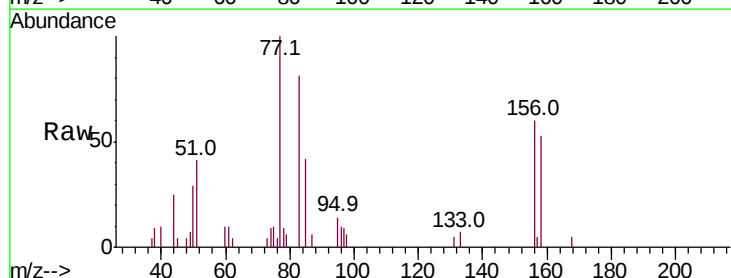
Tgt Ion: 83 Resp: 4368

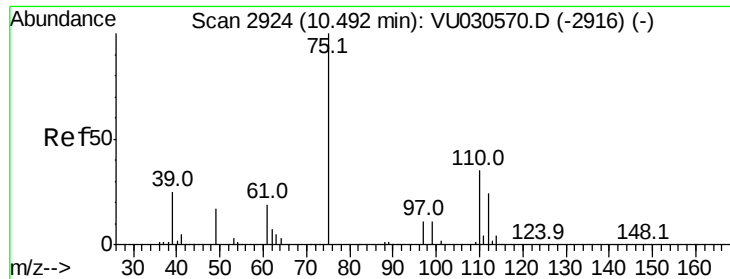
Ion Ratio Lower Upper

83 100

131 3.8 7.0 10.6#

85 59.9 51.0 76.4





#71

1,2,3-Trichloropropane

Concen: 0.238 ug/l

RT: 10.50 min Scan# 2926

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

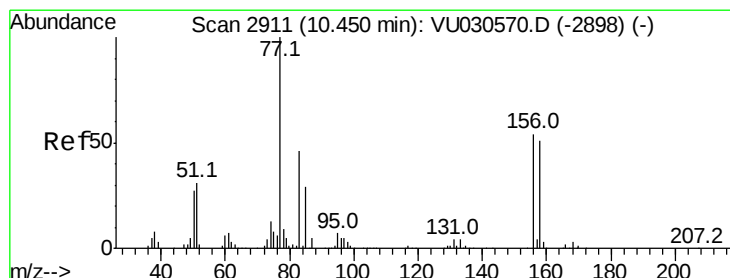
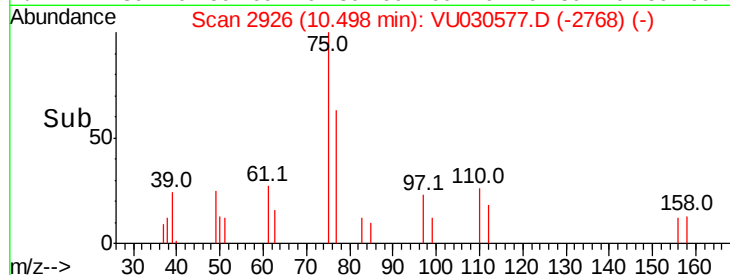
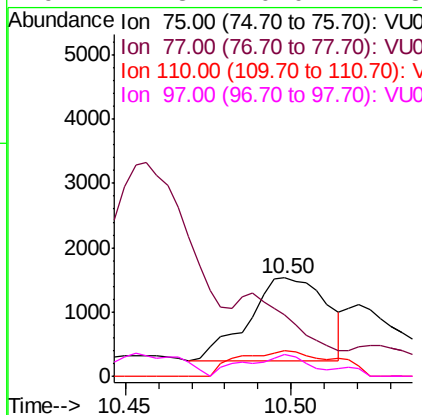
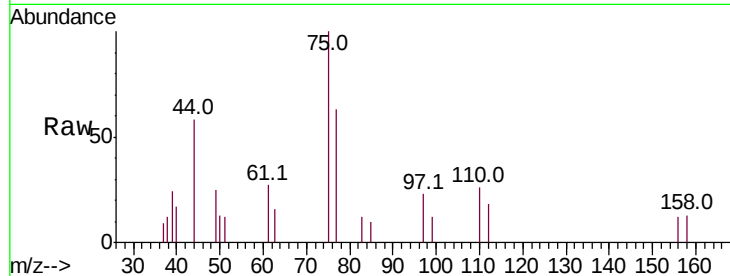
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	75	Resp:	2104
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0
110	38.1	0.0	83.8
97	21.3	0.0	42.8

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#72

Bromobenzene

Concen: 0.264 ug/l

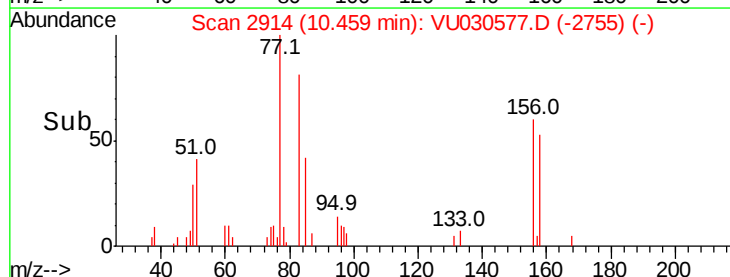
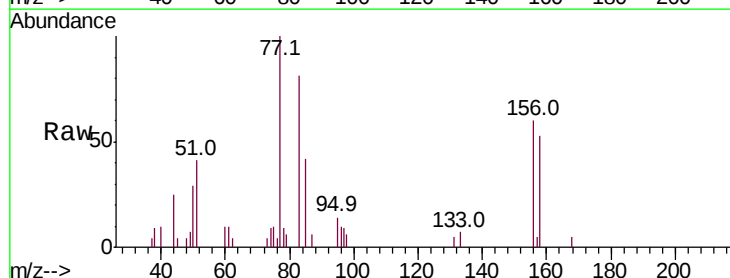
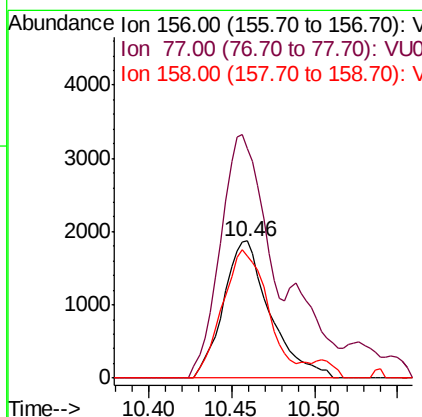
RT: 10.46 min Scan# 2914

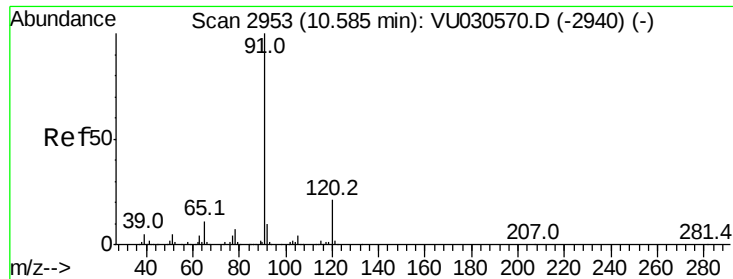
Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Tgt Ion:	156	Resp:	3676
Ion	Ratio	Lower	Upper
156	100		
77	174.3	0.0	363.0
158	90.9	0.0	193.2





#73

n-propylbenzene

Concen: 0.223 ug/l

RT: 10.59 min Scan# 2955

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:120 Resp: 3326

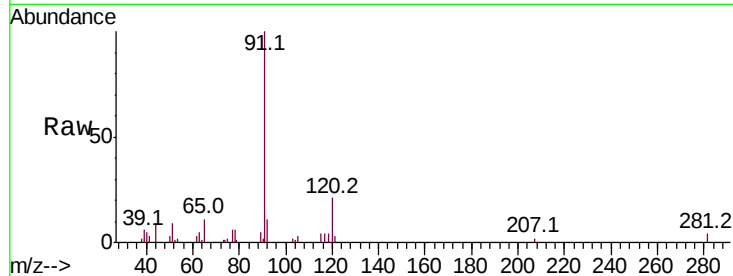
Ion Ratio Lower Upper

120 100

91 487.3 371.6 557.4

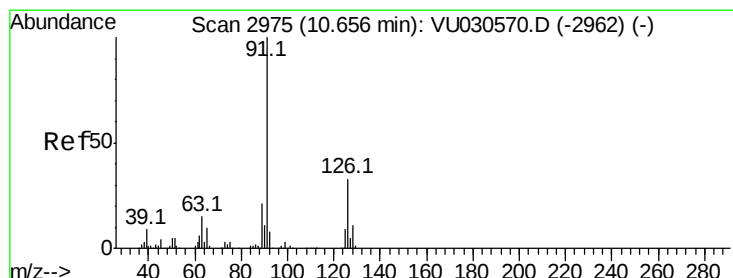
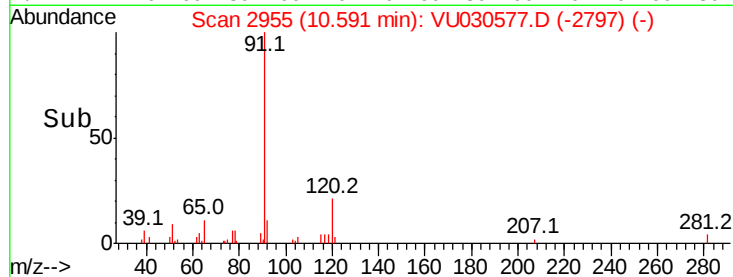
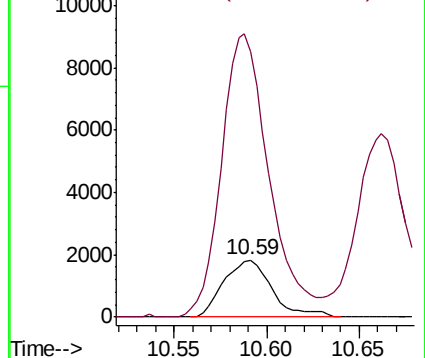
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Abundance Ion 120.00 (119.70 to 120.70): V

Ion 91.00 (90.70 to 91.70): VU0



#74

2-Chlorotoluene

Concen: 0.224 ug/l

RT: 10.66 min Scan# 2977

Delta R.T. 0.01 min

Lab File: VU030577.D

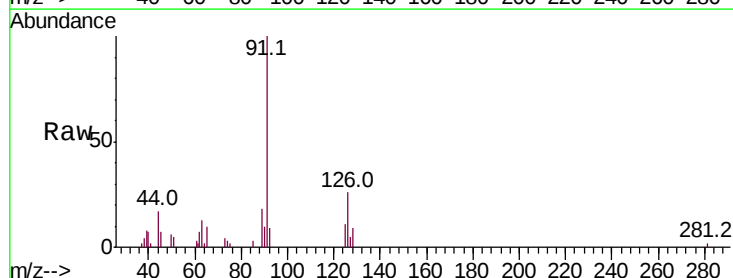
Acq: 30 Mar 2019 17:27

Tgt Ion:126 Resp: 3096

Ion Ratio Lower Upper

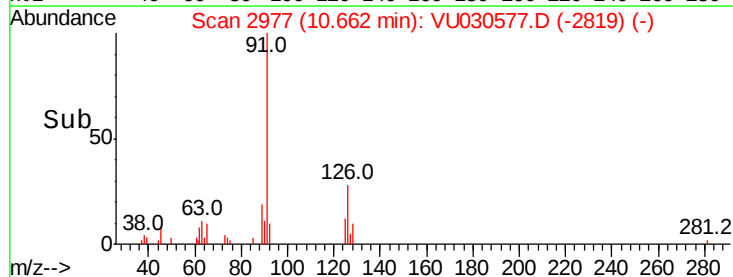
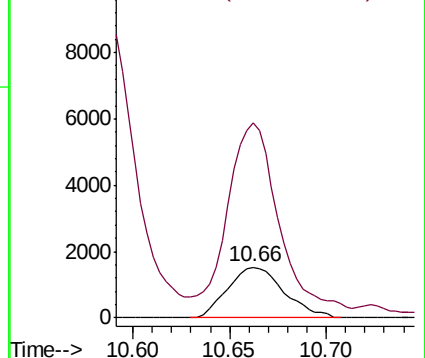
126 100

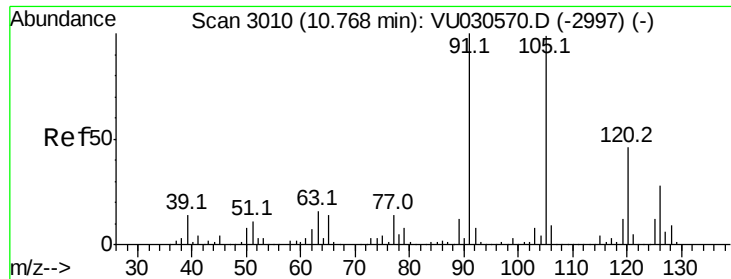
91 330.3 0.0 656.8



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: 0.215 ug/l

RT: 10.77 min Scan# 3011

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:105 Resp: 10515

Ion Ratio Lower Upper

105 100

120 47.6

37.6

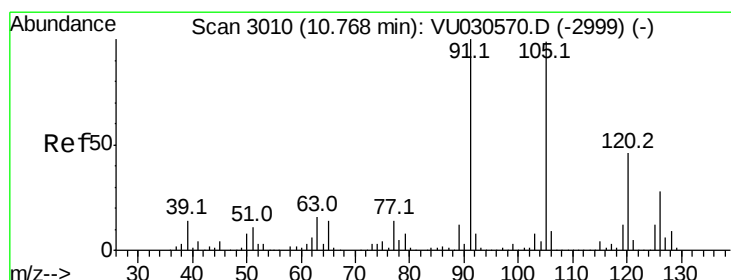
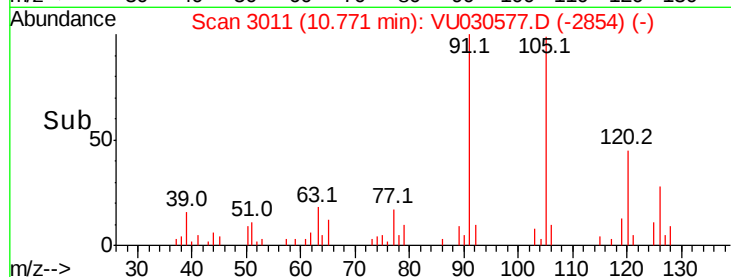
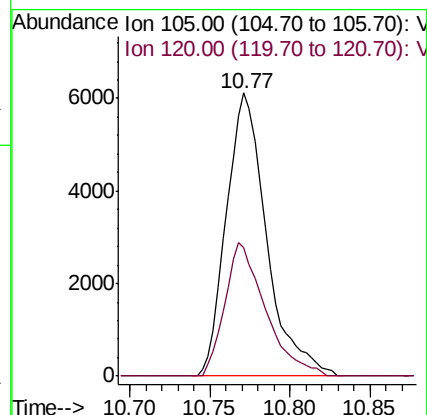
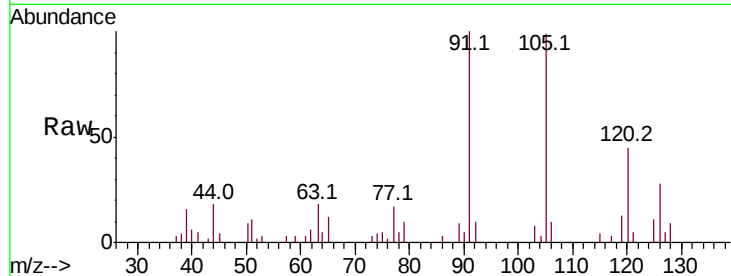
56.4

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#76

4-Chlorotoluene

Concen: 0.246 ug/l

RT: 10.77 min Scan# 3012

Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Tgt Ion:126 Resp: 3456

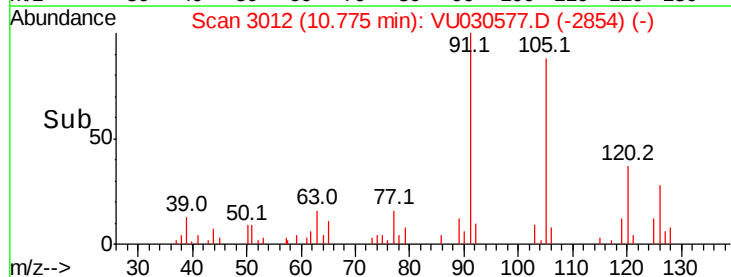
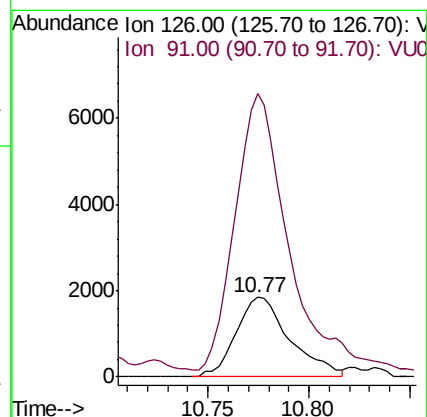
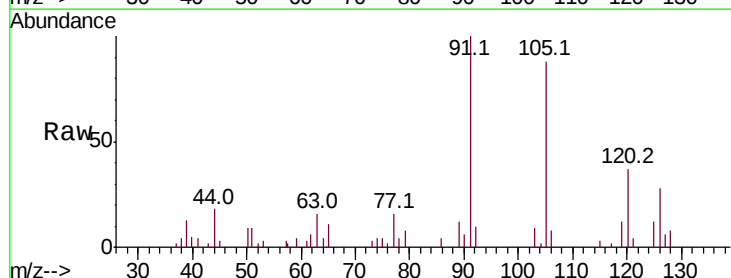
Ion Ratio Lower Upper

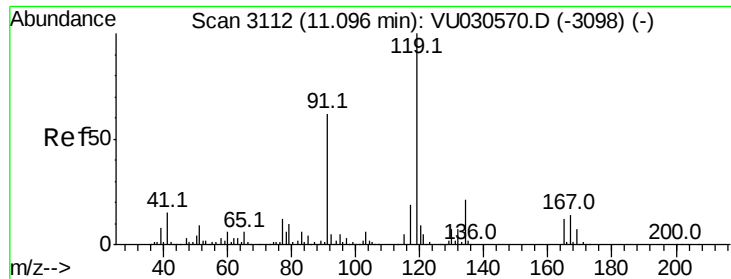
126 100

91 344.5

0.0

721.6





#77

tert-Butylbenzene

Concen: 0.246 ug/l

RT: 11.10 min Scan# 3112

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

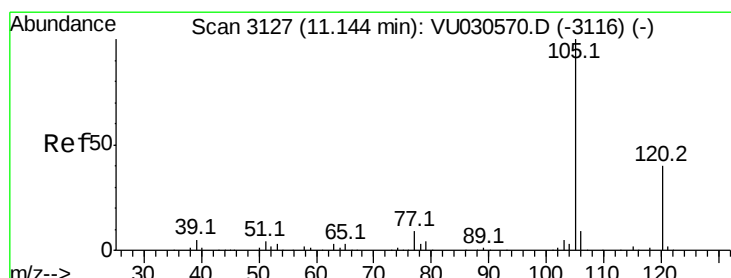
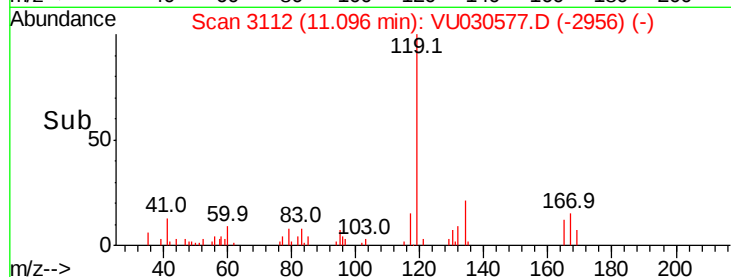
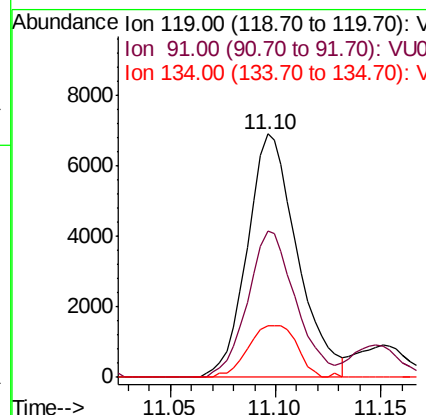
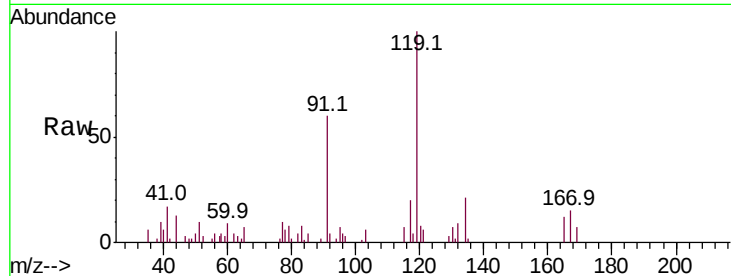
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	119	Resp:	11354
Ion Ratio	Lower	Upper	
119	100		
91	57.8	30.9	92.8
134	20.6	17.6	26.4

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#78

1,2,4-Trimethylbenzene

Concen: 0.222 ug/l

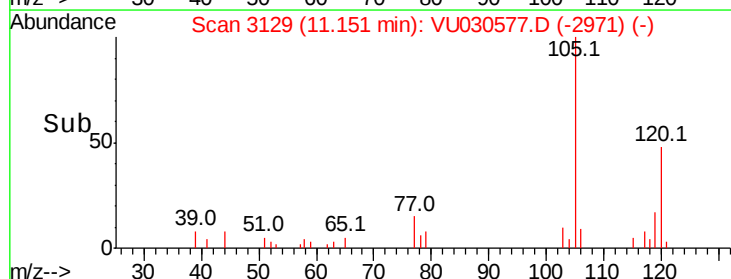
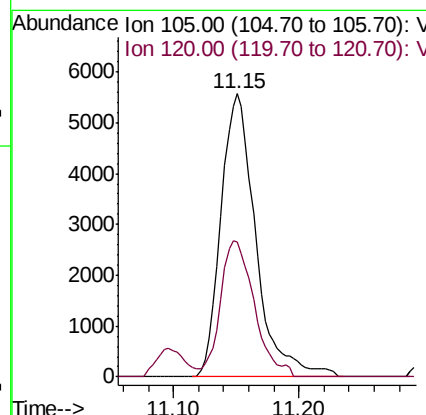
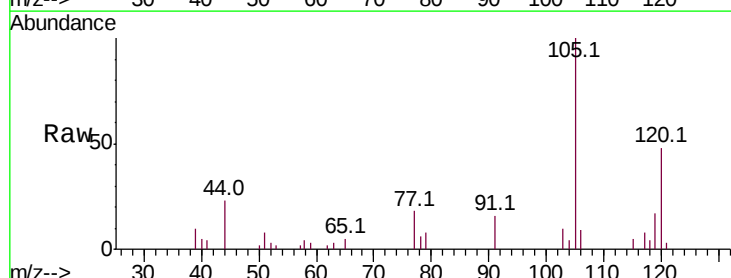
RT: 11.15 min Scan# 3129

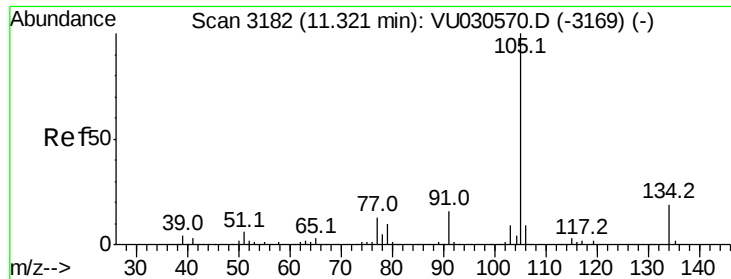
Delta R.T. 0.01 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Tgt Ion:	105	Resp:	10737
Ion Ratio	Lower	Upper	
105	100		
120	46.5	22.1	66.5





#79

sec-Butylbenzene

Concen: 0.217 ug/l

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:105 Resp: 13667

Ion Ratio Lower Upper

105 100

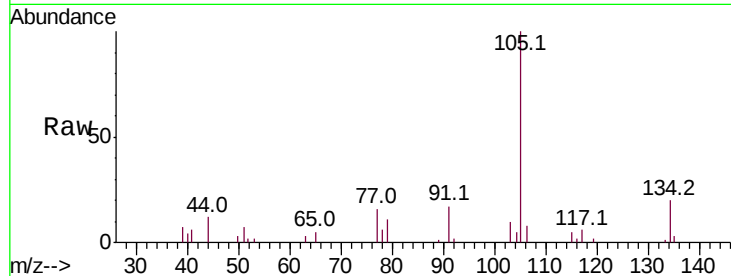
134 18.2 14.7 22.1

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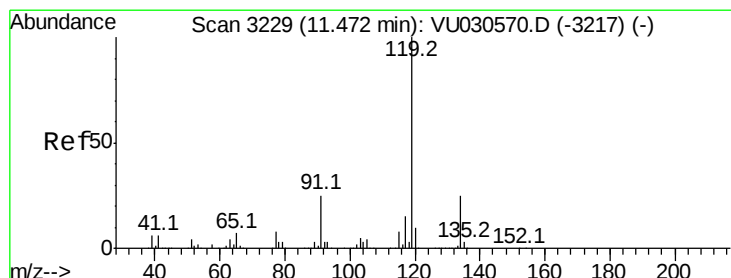
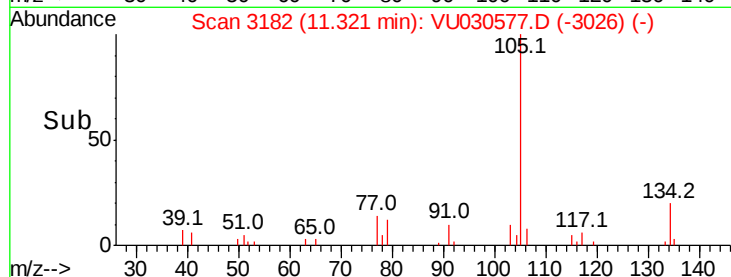
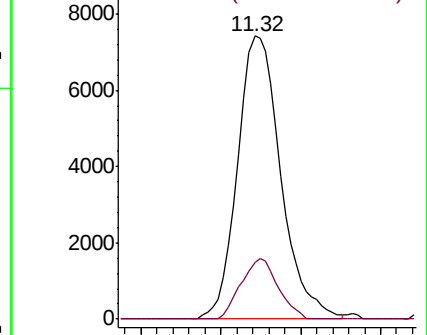
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#81

p-Isopropyltoluene

Concen: 0.218 ug/l

RT: 11.48 min Scan# 3230

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

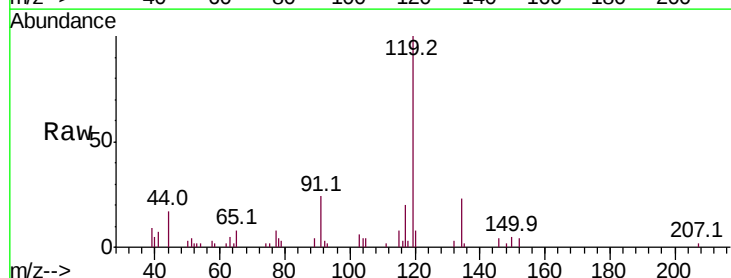
Tgt Ion:119 Resp: 10542

Ion Ratio Lower Upper

119 100

134 25.7 20.6 31.0

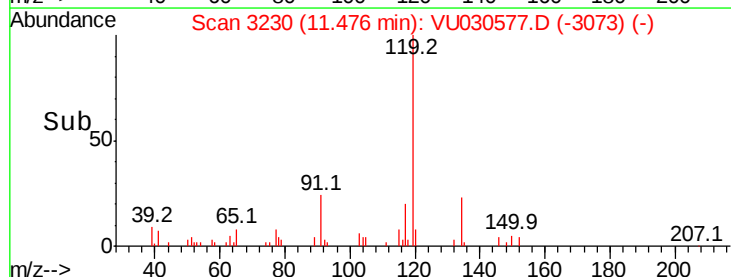
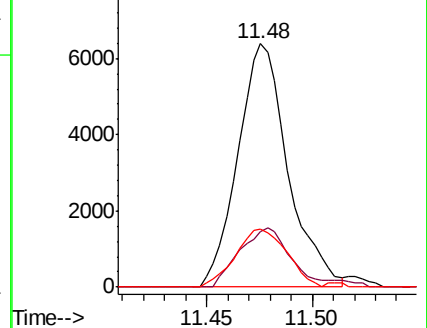
91 24.3 20.4 30.6

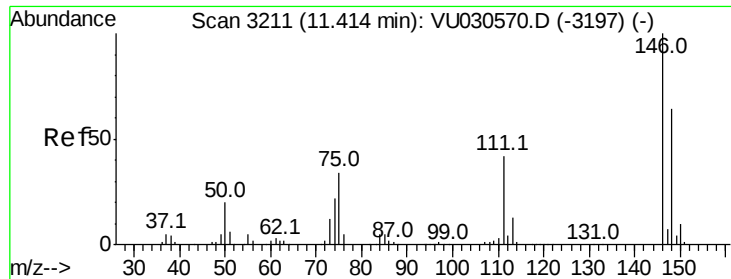


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VU





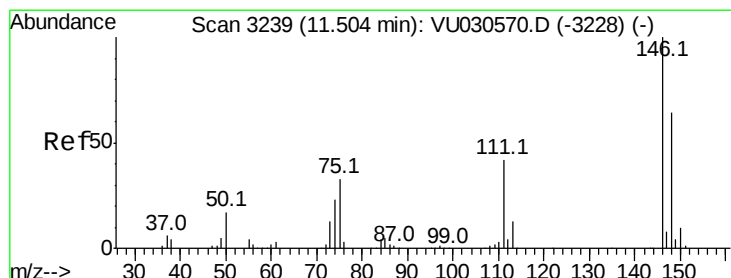
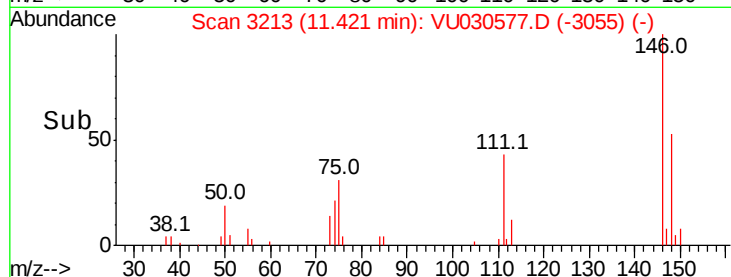
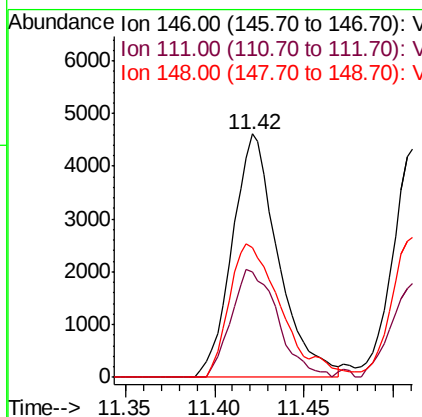
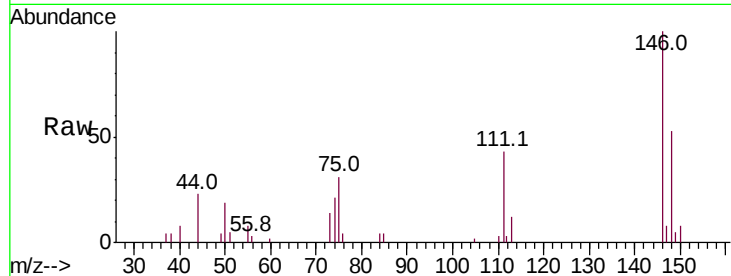
#82
 1,3-Dichlorobenzene
 Concen: 0.298 ug/l
 RT: 11.42 min Scan# 3213
 Delta R.T. 0.01 min
 Lab File: VU030577.D
 Acq: 30 Mar 2019 17:27

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.6	34.0	51.0
148	61.9	51.0	76.6

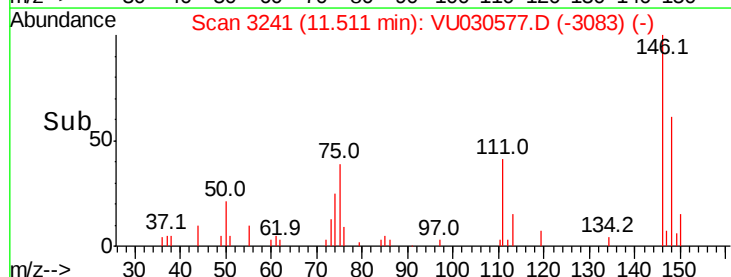
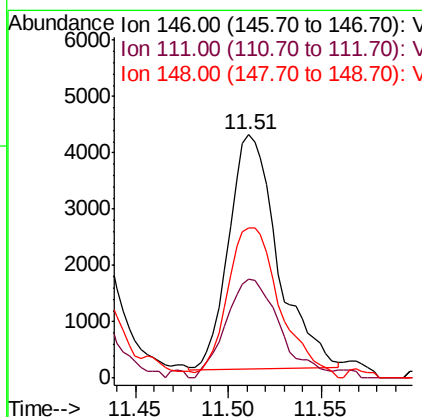
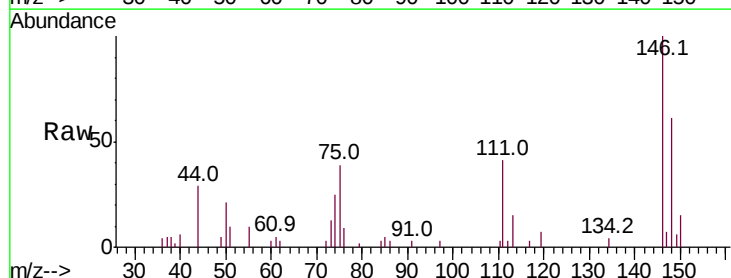
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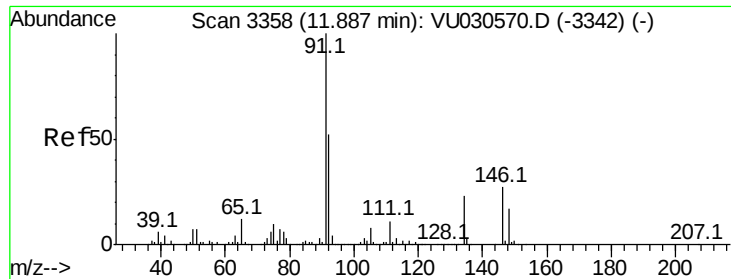
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#83
 1,4-Dichlorobenzene
 Concen: 0.274 ug/l
 RT: 11.51 min Scan# 3241
 Delta R.T. 0.01 min
 Lab File: VU030577.D
 Acq: 30 Mar 2019 17:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.7	32.8	49.2
148	69.3	50.5	75.7





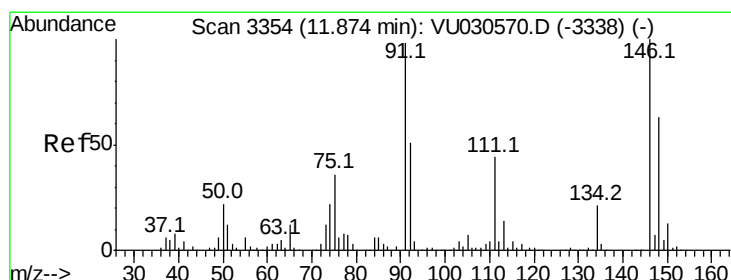
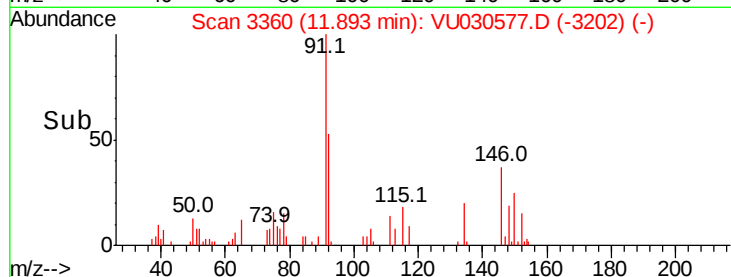
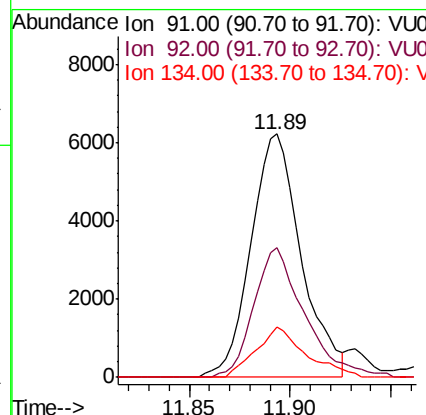
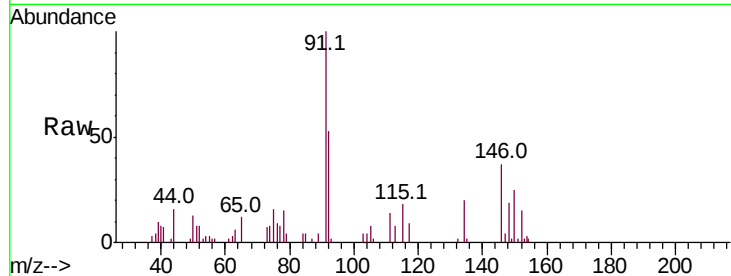
#84
n-Butylbenzene
Concen: 0.232 ug/l
RT: 11.89 min Scan# 3360
Delta R.T. 0.01 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Instrument :
MSVOA_U
ClientSampleId :
MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.6	41.7	62.5
134	20.5	18.3	27.5

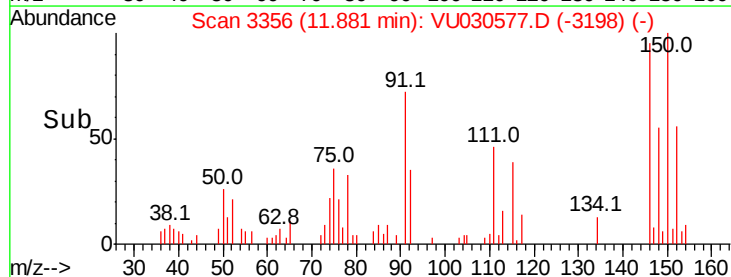
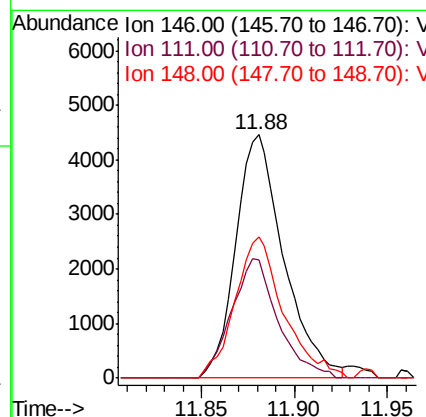
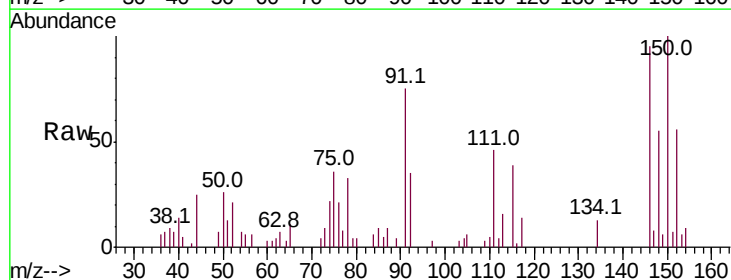
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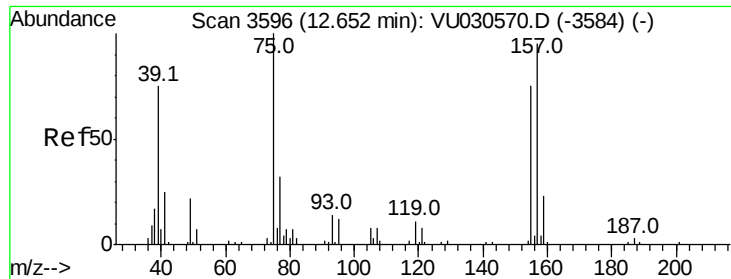
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#85
1,2-Dichlorobenzene
Concen: 0.306 ug/l
RT: 11.88 min Scan# 3356
Delta R.T. 0.01 min
Lab File: VU030577.D
Acq: 30 Mar 2019 17:27

Tgt Ion	Ratio	Lower	Upper
146	100		
111	47.5	21.9	65.5
148	58.5	31.5	94.5





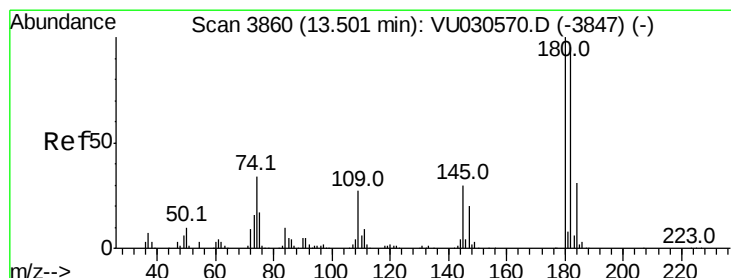
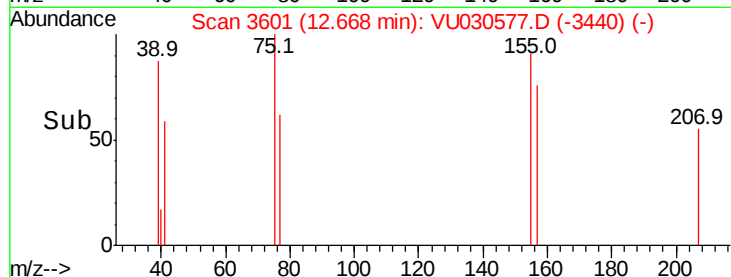
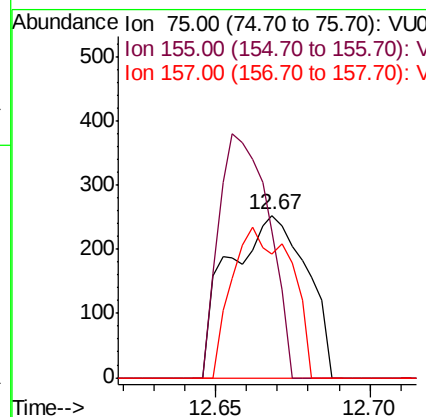
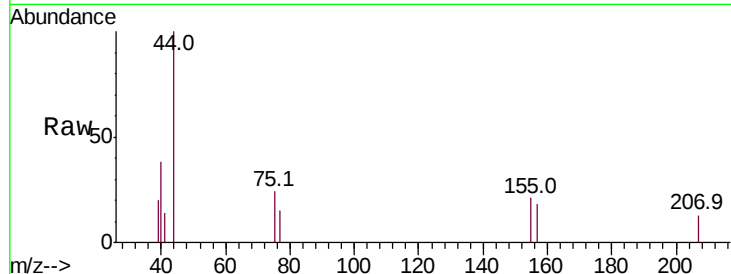
#86
 1,2-Dibromo-3-Chloropropane
 Concen: 0.219 ug/l
 RT: 12.67 min Scan# 3601
 Delta R.T. 0.02 min
 Lab File: VU030577.D
 Acq: 30 Mar 2019 17:27

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MDL-WATER-03-QT1-2019

Tot Ion: 75 Resp: 444
 Ion Ratio Lower Upper
 75 100
 155 96.6 59.7 89.5#
 157 69.6 73.7 110.5#

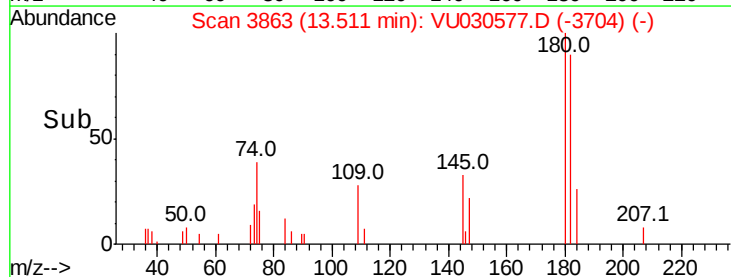
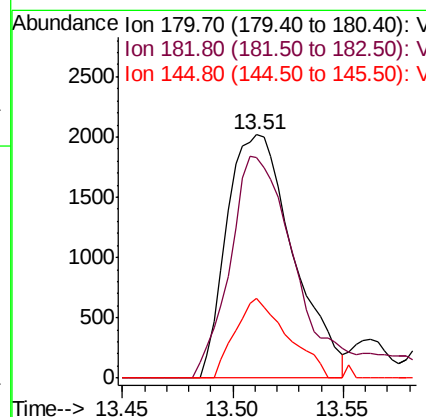
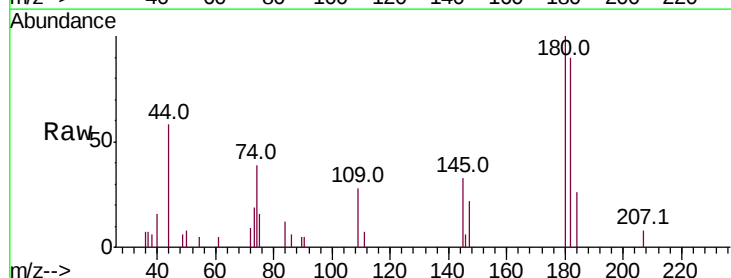
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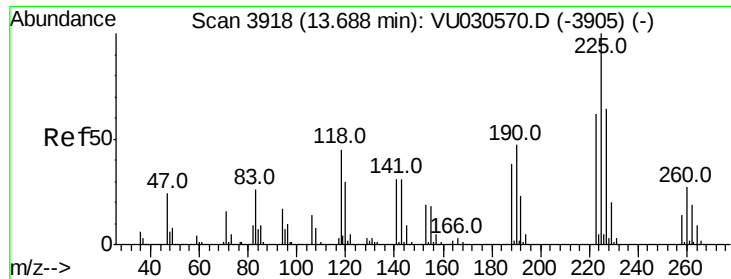
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#87
 1,2,4-Trichlorobenzene
 Concen: 0.281 ug/l
 RT: 13.51 min Scan# 3863
 Delta R.T. 0.01 min
 Lab File: VU030577.D
 Acq: 30 Mar 2019 17:27

Tgt Ion:180 Resp: 4210
 Ion Ratio Lower Upper
 180 100
 182 89.0 76.0 114.0
 145 25.9 24.3 36.5





#88

Hexachlorobutadiene

Concen: 0.289 ug/l

RT: 13.69 min Scan# 3918

Delta R.T. 0.00 min

Lab File: VU030577.D

Acq: 30 Mar 2019 17:27

Instrument :

MSVOA_U

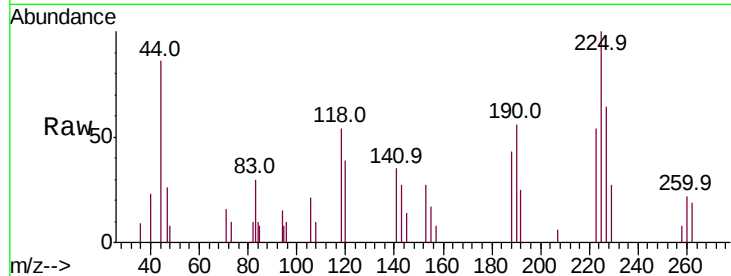
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

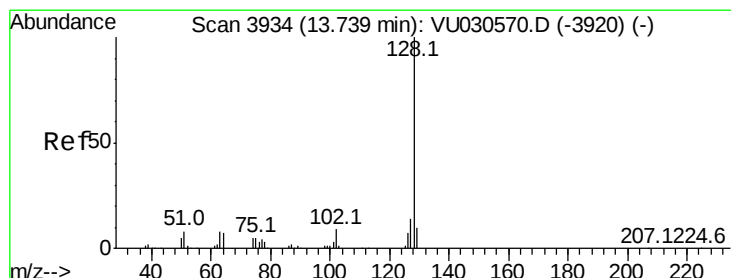
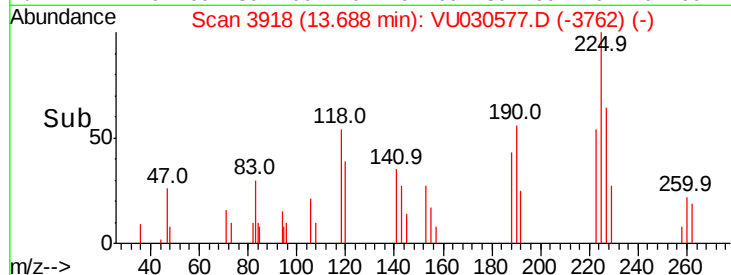
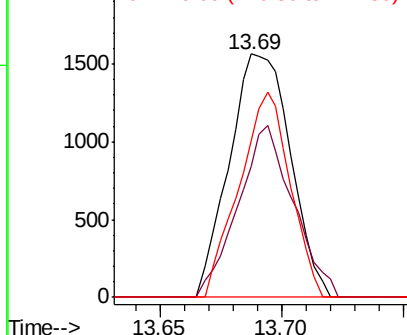
Tot Ion:	225	Resp:	2725
Ion Ratio	Lower	Upper	
225	100		
223	63.5	50.7	76.1
227	69.9	50.8	76.2

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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



#89

Naphthalene

Concen: 0.292 ug/l

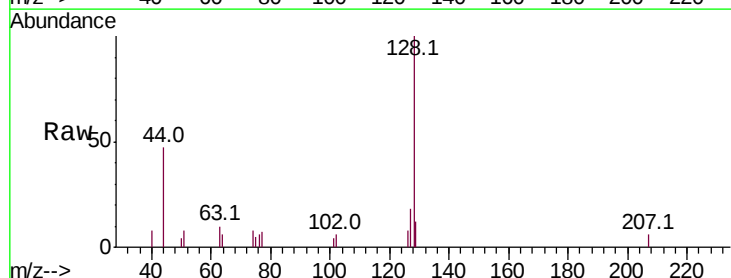
RT: 13.75 min Scan# 3938

Delta R.T. 0.01 min

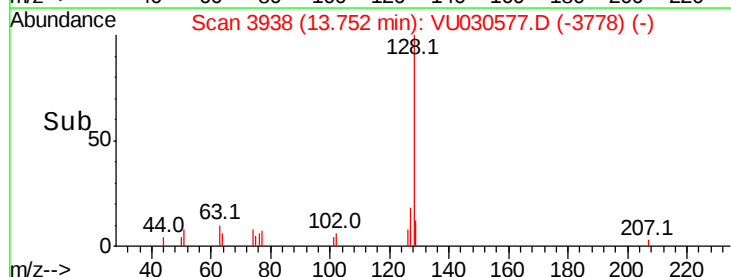
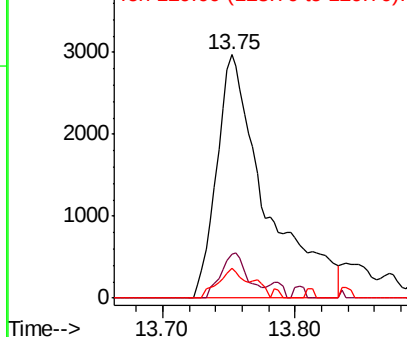
Lab File: VU030577.D

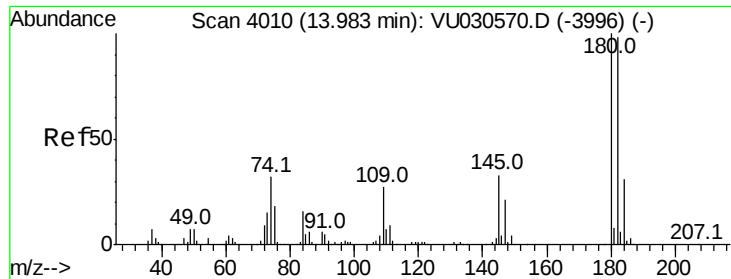
Acq: 30 Mar 2019 17:27

Tgt Ion:	128	Resp:	7626
Ion Ratio	Lower	Upper	
128	100		
127	10.3	10.4	15.6#
129	6.2	7.8	11.8#



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





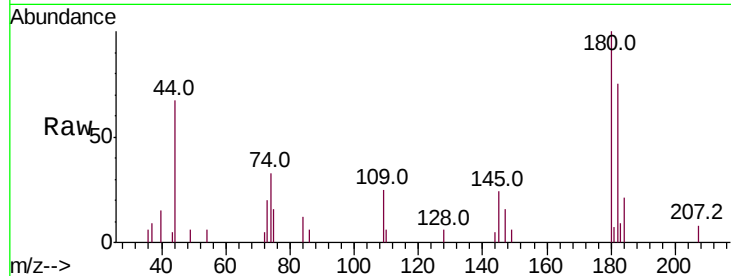
#90
 1,2,3-Trichlorobenzene
 Concen: 0.299 ug/l
 RT: 13.99 min Scan# 4012
 Delta R.T. 0.01 min
 Lab File: VU030577.D
 Acq: 30 Mar 2019 17:27

Instrument :
 MSVOA_U
 ClientSampleId :
 MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	89.1	76.6	114.8
145	26.0	25.9	38.9

Manual Integrations
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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

