

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA_U\DATA\VU102919\
 Data File : VU035543.D
 Acq On : 29 Oct 2019 17:32
 Operator : JC/SP
 Sample : K5111-07
 Misc : 25.0mL/MSVOA_U/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/30/2019 10:39:07 AM

Quant Time: Oct 30 07:09:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\524U102919DW.M
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER
 QLast Update : Wed Oct 30 07:04:11 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Fluorobenzene	6.16	96	65348	1.00	ug/l	0.00

System Monitoring Compounds

57) 4-Bromofluorobenzene	10.67	95	19840	0.84	ug/l	0.01
Spiked Amount 1.000			Recovery	=	84.00%	
68) 1,2-Dichlorobenzene-d4	12.23	152	20038	0.80	ug/l	0.00
Spiked Amount 1.000			Recovery	=	80.00%	

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.40	85	7199	0.281 ug/l	96
3) Chloromethane	1.54	50	8652	0.276 ug/l	91
4) Vinyl Chloride	1.62	62	7777	0.280 ug/l #	88
5) Bromomethane	1.88	94	4178	0.296 ug/l	98
6) Chloroethane	1.96	64	4658	0.292 ug/l	92
7) Trichlorofluoromethane	2.16	101	9806	0.286 ug/l	96
8) 1,1,2-Trichloro-1,2,2-trif	2.61	101	5140	0.276 ug/l	98
9) 1,1-Dichloroethene	2.61	96	5191	0.289 ug/l	96
11) Allyl Chloride	2.96	41	8549	0.283 ug/l	96
12) Acrylonitrile	3.37	53	2884	0.640 ug/l #	69
13) Acetone	2.67	43	7194	1.644 ug/l	88
14) Carbon Disulfide	2.83	76	18835	0.297 ug/l	98
15) Methylene Chloride	3.09	84	9849	0.427 ug/l	89
16) trans-1,2-Dichloroethene	3.40	96	5595	0.283 ug/l	99
17) 1,1-Dichloroethane	3.92	63	10384	0.281 ug/l #	93
18) 2-Butanone	4.80	43	5998	1.058 ug/l	95
19) Cyclohexane	5.43	56	7162m	0.244 ug/l	
20) Methylcyclohexane	6.80	83	7084	0.236 ug/l	95
21) 2,2-Dichloropropane	4.72	77	9807	0.307 ug/l	92
22) cis-1,2-Dichloroethene	4.72	96	5724	0.271 ug/l	94
23) Diethyl Ether	2.41	59	3933	0.266 ug/l	92
24) tert-Butyl Alcohol	3.23	59	17417	10.552 ug/l #	77
25) Methyl tert-Butyl Ether	3.43	73	13317	0.277 ug/l #	70
26) Bromochloromethane	5.02	128	2348	0.249 ug/l	88
27) Chloroform	5.14	83	14057	0.356 ug/l	98
28) 1,1,1-Trichloroethane	5.37	97	9469	0.302 ug/l	92
29) 1,1-Dichloropropene	5.57	75	6095	0.232 ug/l	92
30) Carbon Tetrachloride	5.57	117	8053	0.289 ug/l	91
31) Isopropyl Ether	4.07	45	13212	0.256 ug/l	80
32) Ethyl-t-butyl ether	4.58	59	12071	0.252 ug/l	98
33) Tert-Amyl methyl ether	6.00	73	9935	0.242 ug/l	98
34) Propionitrile	4.86	54	1664	1.013 ug/l #	96
35) Benzene	5.82	78	20931	0.261 ug/l	98
36) 1,2-Dichloroethane	5.85	62	6360	0.277 ug/l	95
37) Trichloroethene	6.58	130	5774	0.259 ug/l	98
38) 1,2-Dichloropropane	6.84	63	5639	0.257 ug/l	97
39) Methacrylonitrile	5.04	41	1714	0.278 ug/l #	87
41) Tetrahydrofuran	5.15	42	1804	0.569 ug/l #	33
42) 1-Chlorobutane	5.50	56	9048	0.250 ug/l	92
43) Dibromomethane	6.96	93	3059	0.279 ug/l	95
44) Bromodichloromethane	7.15	83	7709	0.282 ug/l	94

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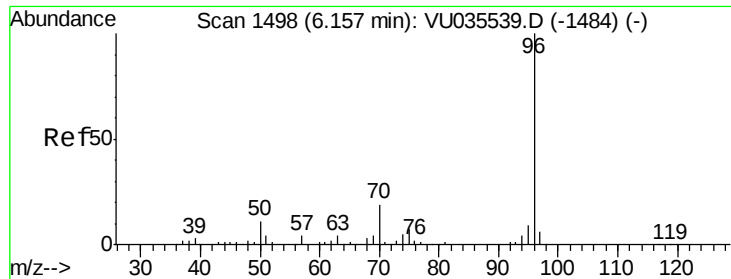
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) 4-Methyl-2-Pentanone	7.86	43	14830	1.267	ug/l #	91
46) t-1,4-Dichloro-2-butene	10.88	75	1975m	0.464	ug/l	
47) Methyl methacrylate	7.02	69	3736	0.411	ug/l #	85
48) Ethyl methacrylate	8.40	69	3423m	0.215	ug/l	
49) Toluene	8.01	92	10267	0.223	ug/l	84
50) t-1,3-Dichloropropene	8.25	75	5691	0.235	ug/l	93
51) cis-1,3-Dichloropropene	7.65	75	7111	0.247	ug/l	94
52) 1,1,2-Trichloroethane	8.44	97	4366	0.284	ug/l	93
53) 1,3-Dichloropropane	8.61	76	6743	0.259	ug/l	96
54) 2-Hexanone	8.77	43	8257	0.993	ug/l #	55
55) Dibromochloromethane	8.85	129	5051	0.269	ug/l	98
56) 1,2-Dibromoethane	8.96	107	3517	0.250	ug/l	91
58) Tetrachloroethene	8.58	164	5554	0.272	ug/l	93
59) Chlorobenzene	9.48	112	11441	0.215	ug/l	100
60) 1,1,1,2-Tetrachloroethane	9.56	131	5479	0.268	ug/l	98
61) Pentachloroethane	11.46	117	4422	0.266	ug/l	98
62) Hexachloroethane	12.50	117	4113	0.270	ug/l	93
63) Ethyl Benzene	9.60	91	18016	0.218	ug/l	97
64) m/p-Xylenes	9.73	106	11680	0.358	ug/l #	1
65) o-Xylene	10.14	106	6439	0.205	ug/l	99
67) Bromoform	10.33	173	2890	0.248	ug/l #	96
70) 1,1,2,2-Tetrachloroethane	10.82	83	5562	0.271	ug/l #	67
71) 1,2,3-Trichloropropane	10.86	75	4696	0.305	ug/l	79
77) tert-Butylbenzene	11.45	119	15005	0.216	ug/l	92
80) Nitrobenzene	13.23	77	326	0.474	ug/l #	41
86) 1,2-Dibromo-3-Chloropropan	13.03	75	712	0.273	ug/l #	73
88) Hexachlorobutadiene	14.04	225	3374	0.221	ug/l	99

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



#1

Fluorobenzene

Concen: 1.000 ug/l

RT: 6.16 min Scan# 1499

Delta R.T. 0.00 min

Lab File: VU035543.D

Acq: 29 Oct 2019 17:32

Instrument :

MSVOA_U

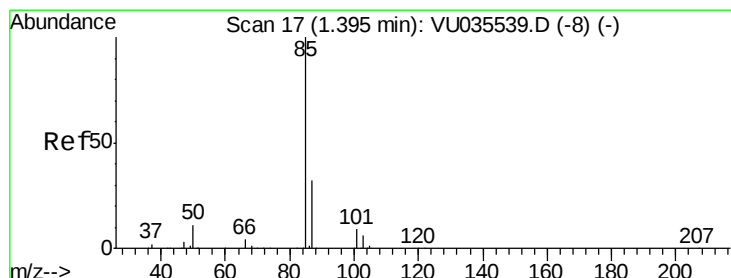
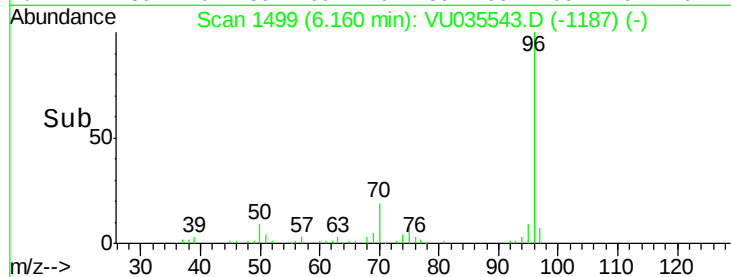
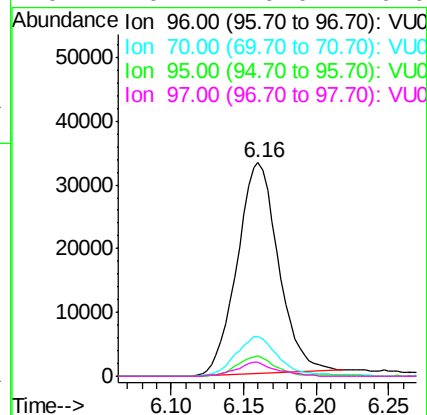
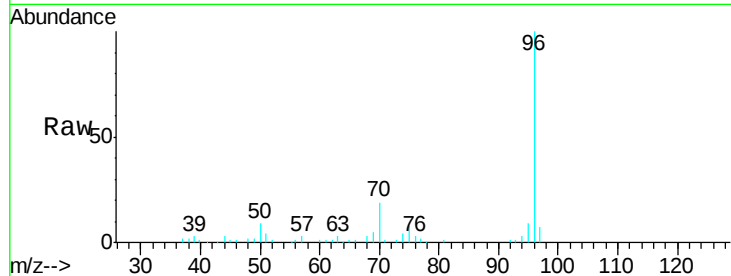
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tgt Ion	Ion	Ratio	Lower	Upper
96	100			
70	19.0	15.8	23.8	
95	8.2	7.4	11.2	
97	6.4	0.0	0.0	

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#2

Dichlorodifluoromethane

Concen: 0.281 ug/l

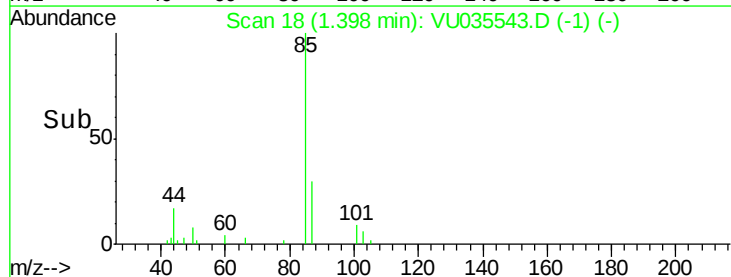
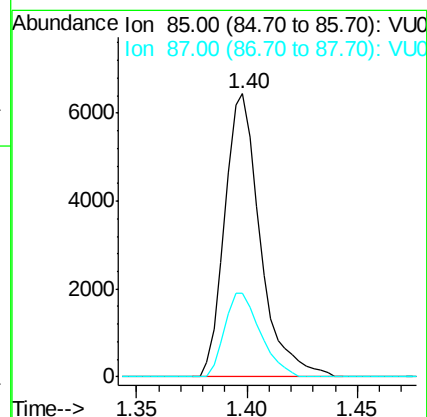
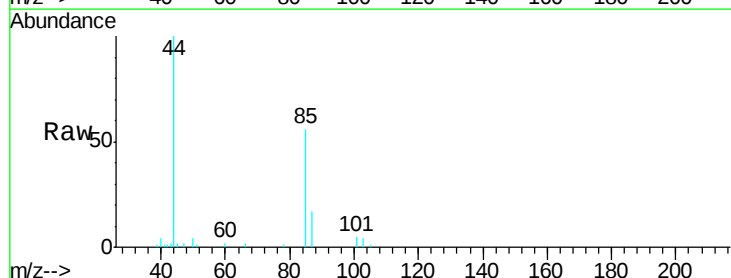
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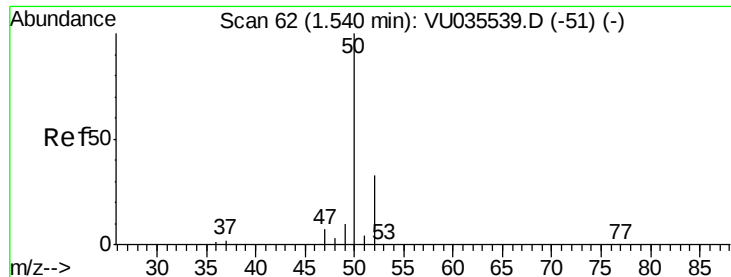
Delta R.T. 0.00 min

Lab File: VU035543.D

Acq: 29 Oct 2019 17:32

Tgt Ion	Ion	Ratio	Lower	Upper
85	100			
87	29.6	15.8	47.4	





#3

Chloromethane

Concen: 0.276 ug/l

RT: 1.54 min Scan# 62

Delta R.T. -0.00 min

Lab File: VU035543.D

Acq: 29 Oct 2019 17:32

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 50 Resp: 8652

Ion Ratio Lower Upper

50 100

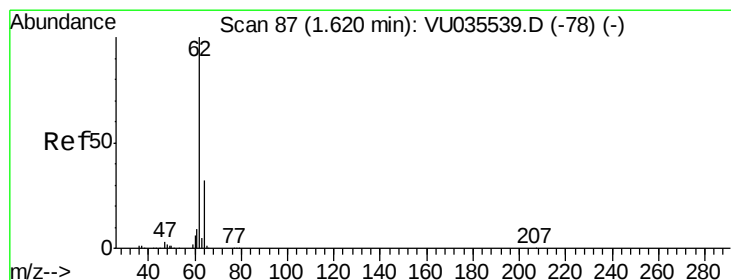
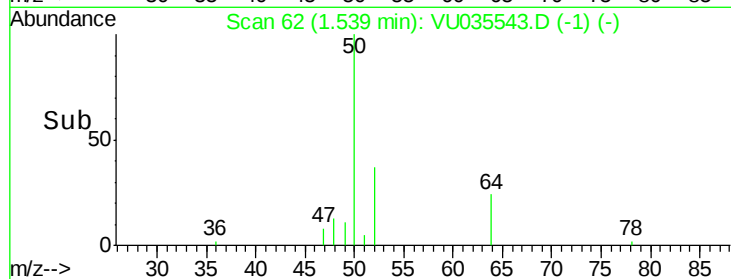
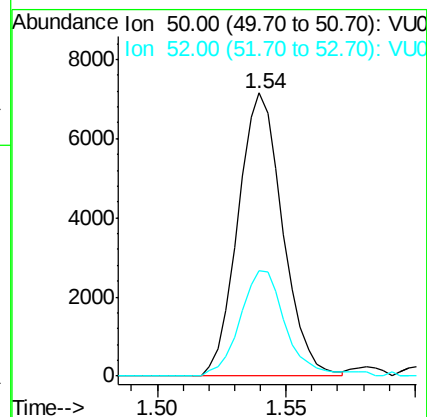
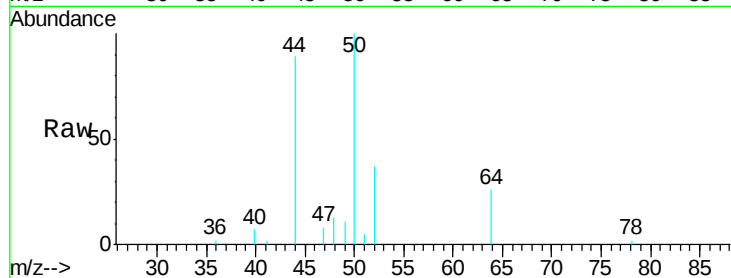
52 37.5 26.0 39.0

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#4

Vinyl Chloride

Concen: 0.280 ug/l

RT: 1.62 min Scan# 88

Delta R.T. 0.00 min

Lab File: VU035543.D

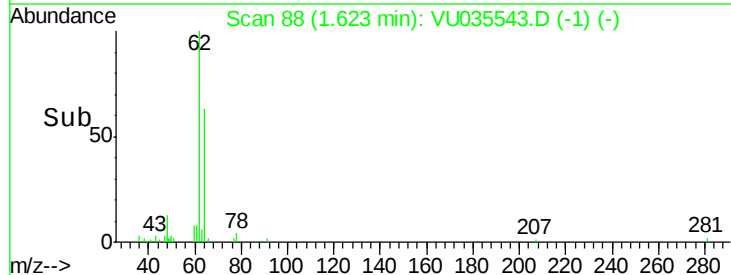
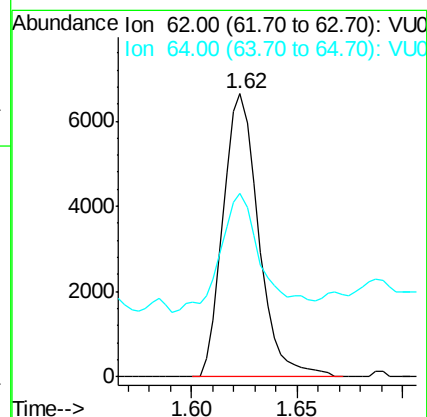
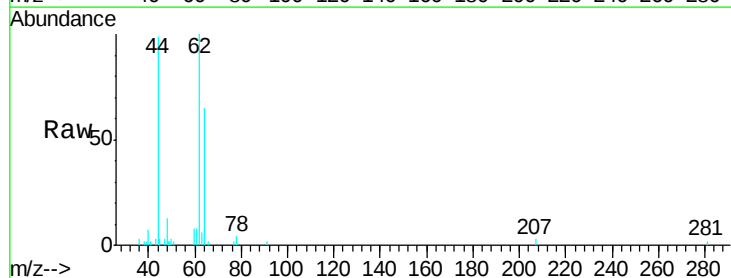
Acq: 29 Oct 2019 17:32

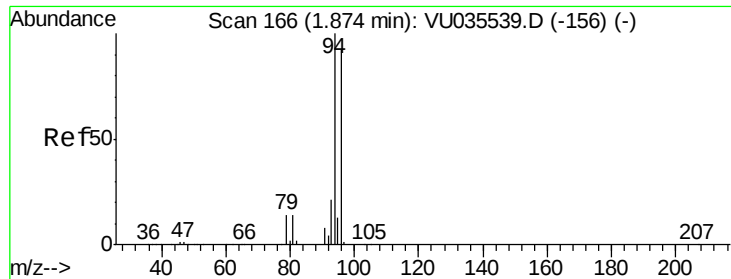
Tgt Ion: 62 Resp: 7777

Ion Ratio Lower Upper

62 100

64 38.4 25.6 38.4#





#5

Bromomethane

Concen: 0.296 ug/l

RT: 1.88 min Scan# 167

Delta R.T. 0.00 min

Lab File: VU035543.D

Acq: 29 Oct 2019 17:32

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 94 Resp: 4178

Ion Ratio Lower Upper

94 100

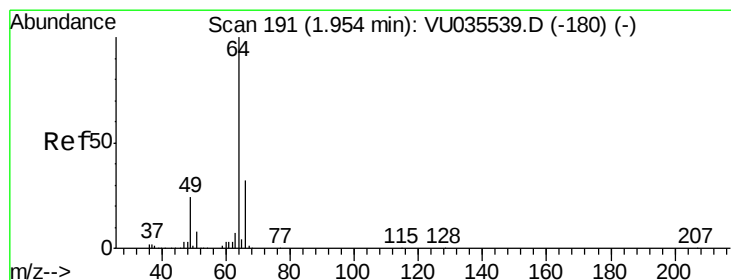
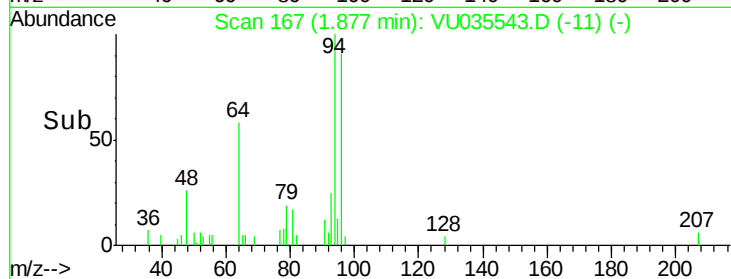
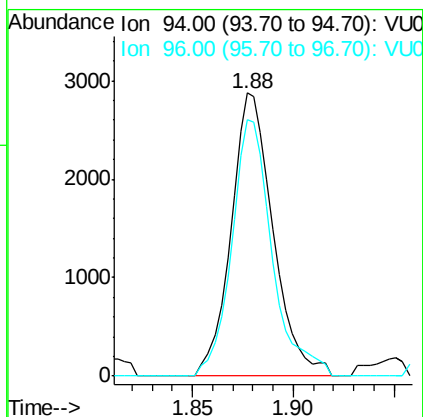
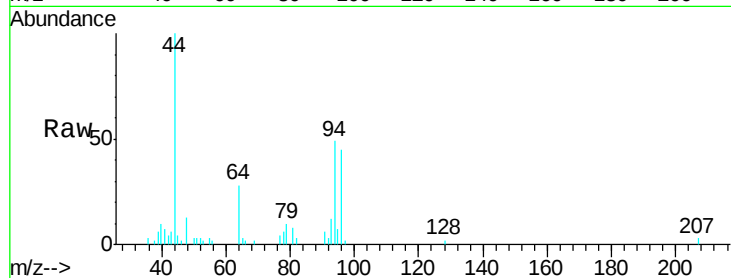
96 90.6 73.8 110.8

Manual Integrations

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#6

Chloroethane

Concen: 0.292 ug/l

RT: 1.96 min Scan# 192

Delta R.T. 0.00 min

Lab File: VU035543.D

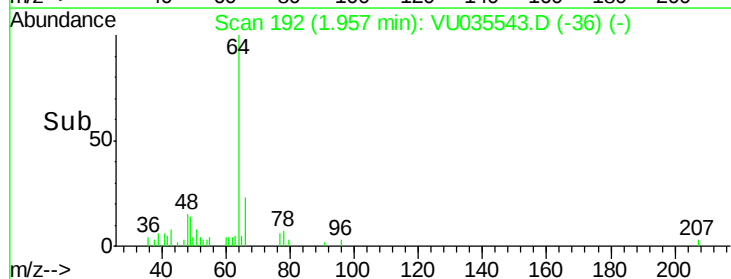
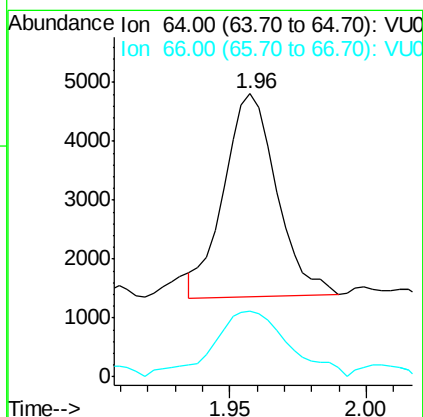
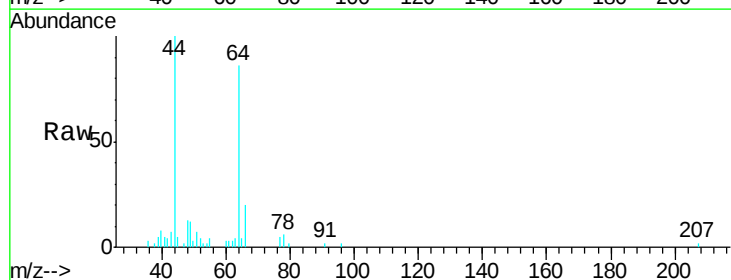
Acq: 29 Oct 2019 17:32

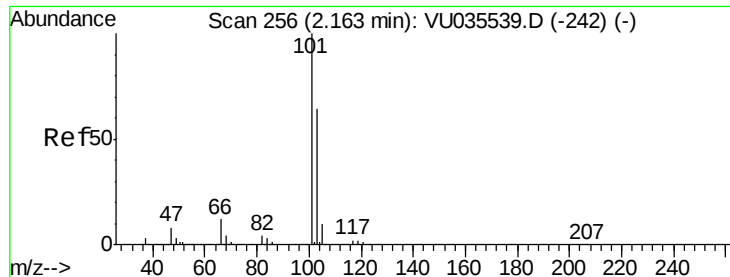
Tgt Ion: 64 Resp: 4658

Ion Ratio Lower Upper

64 100

66 28.2 25.9 38.9





#7

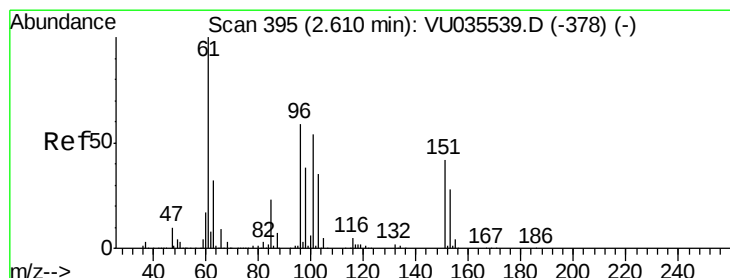
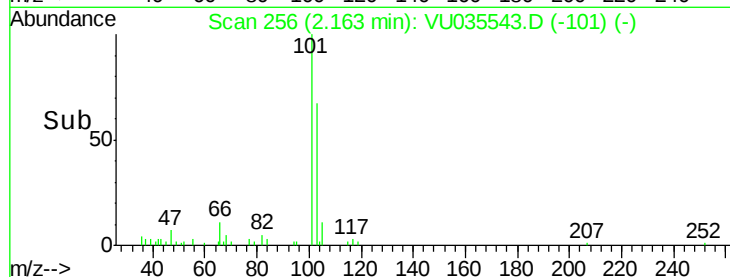
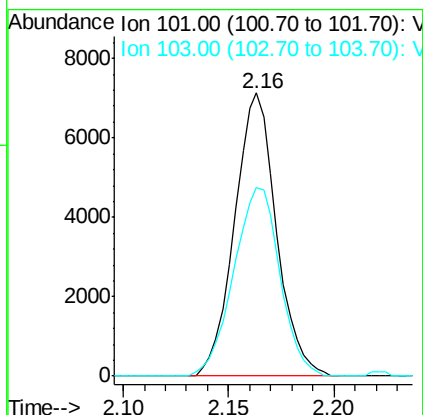
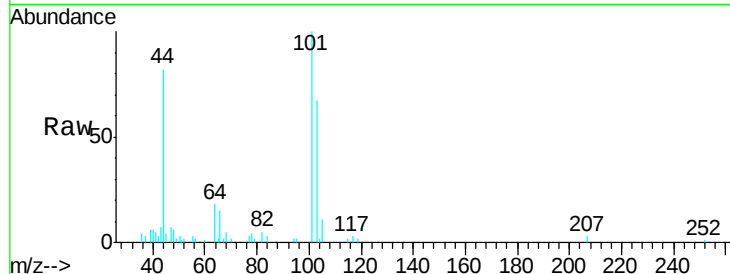
Trichlorofluoromethane
Concen: 0.286 ug/l
RT: 2.16 min Scan# 256
Delta R.T. -0.00 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

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MSVOA_U
ClientSampleId :
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Tgt Ion	Ratio	Resp	Lower	Upper
101	100	9806		
103	66.6	51.0	76.6	

Manual Integrations
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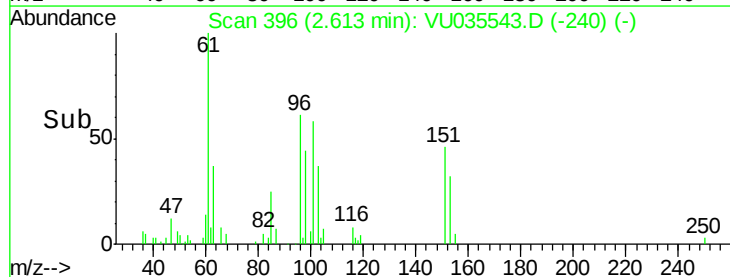
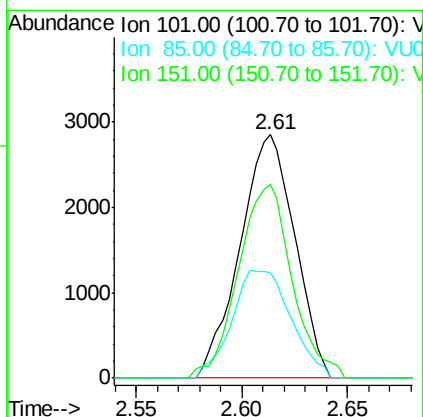
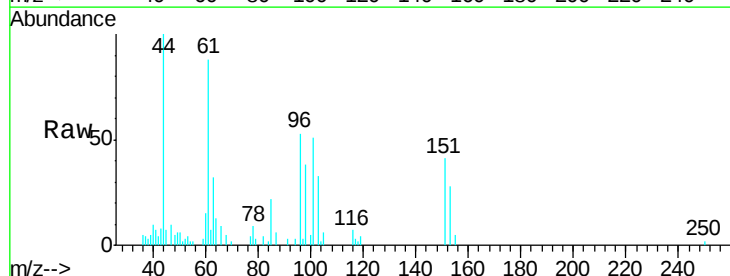
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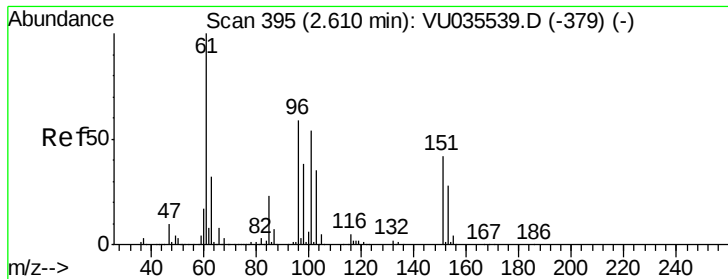


#8

1,1,2-Trichloro-1,2,2-trifluoroethane
Concen: 0.276 ug/l
RT: 2.61 min Scan# 396
Delta R.T. 0.00 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	5140		
85	47.8	35.8	53.6	
151	77.9	61.8	92.6	





#9

1,1-Dichloroethene

Concen: 0.289 ug/l

RT: 2.61 min Scan# 395

Delta R.T. -0.00 min

Lab File: VU035543.D

Acq: 29 Oct 2019 17:32

Instrument :

MSVOA_U

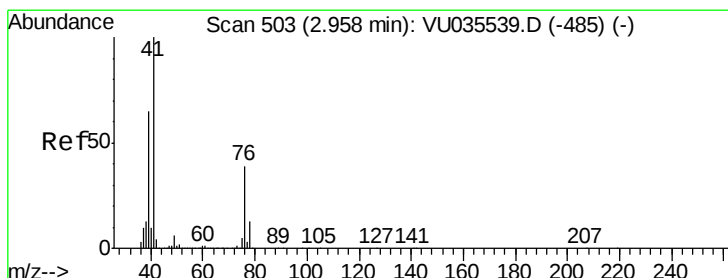
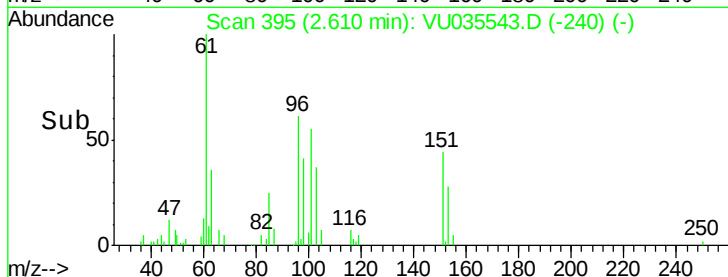
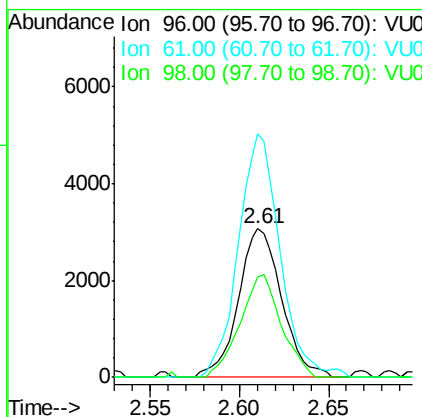
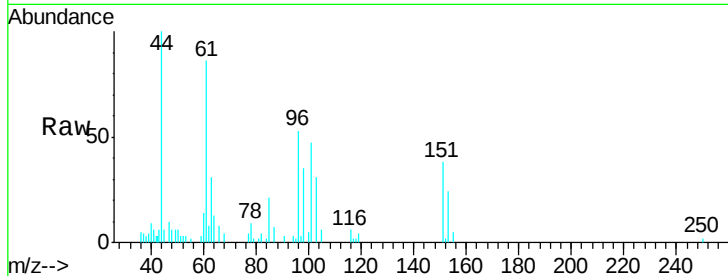
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tgt Ion:	96	Resp:	5191
Ion	Ratio	Lower	Upper
96	100		
61	163.7	0.0	508.8
98	67.5	0.0	130.4

Manual Integrations
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10/30/2019 10:39:07 AM



#11

Allyl Chloride

Concen: 0.283 ug/l

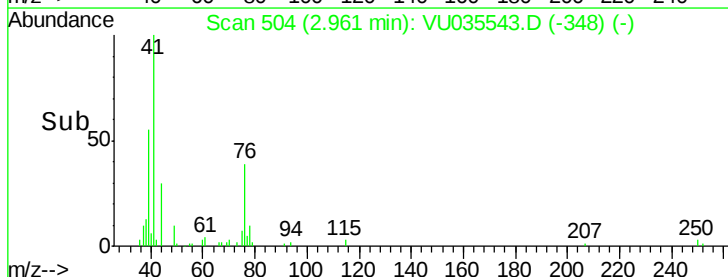
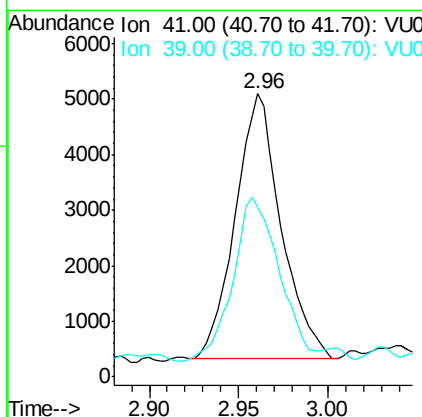
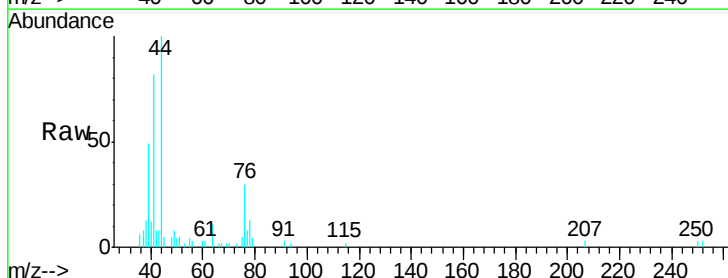
RT: 2.96 min Scan# 504

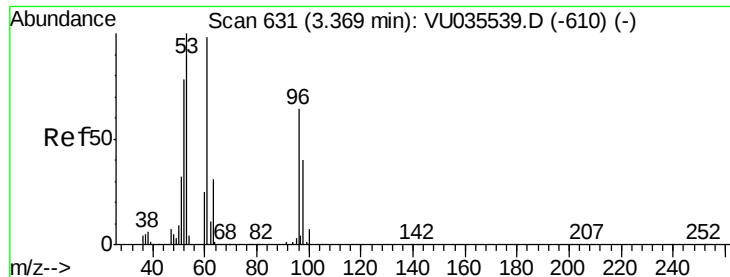
Delta R.T. 0.00 min

Lab File: VU035543.D

Acq: 29 Oct 2019 17:32

Tgt Ion:	41	Resp:	8549
Ion	Ratio	Lower	Upper
41	100		
39	62.0	52.0	78.0





#12

Acrylonitrile

Concen: 0.640 ug/l

RT: 3.37 min Scan# 632

Delta R.T. 0.00 min

Lab File: VU035543.D

Acq: 29 Oct 2019 17:32

Instrument :

MSVOA_U

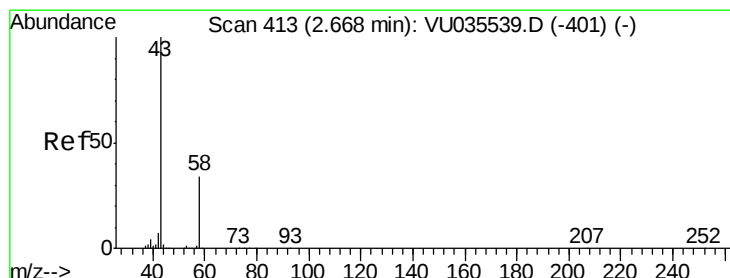
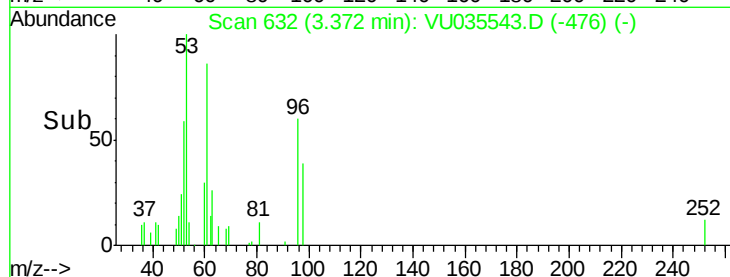
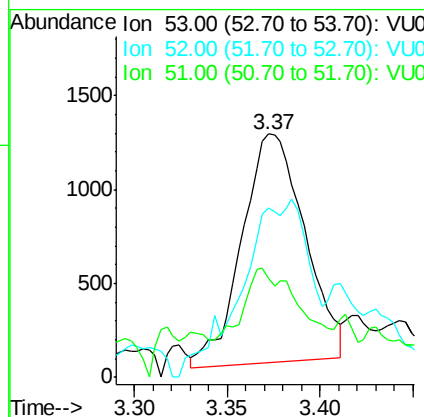
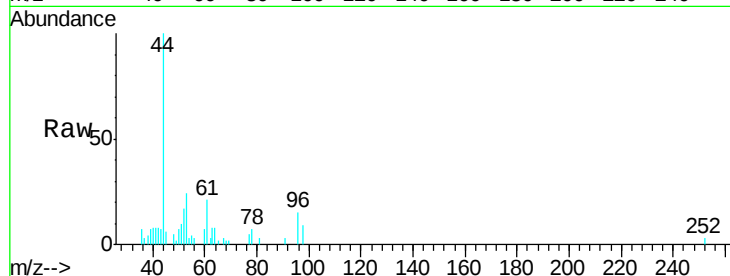
ClientSampleId :

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Tgt Ion:	53	Resp:	2884
Ion Ratio	Lower	Upper	
53	100		
52	50.8	67.4	101.0#
51	24.8	27.0	40.4#

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#13

Acetone

Concen: 1.644 ug/l

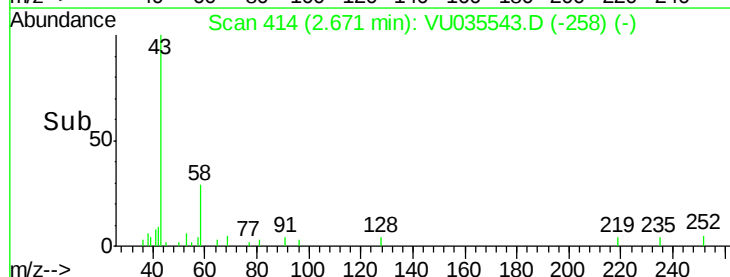
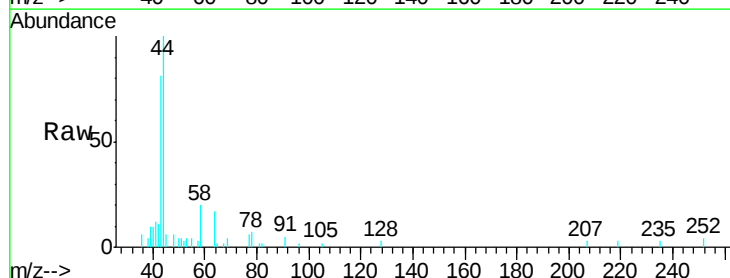
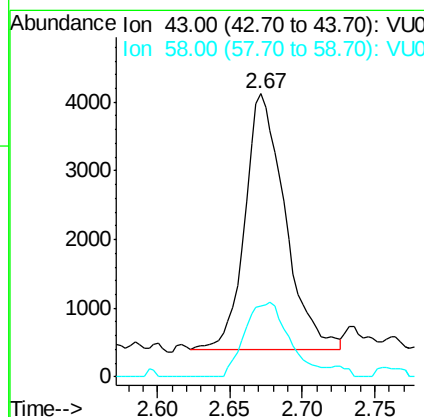
RT: 2.67 min Scan# 414

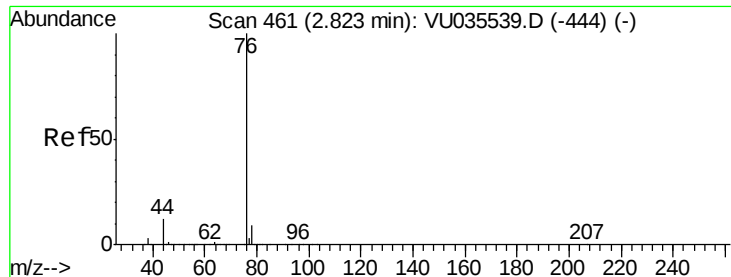
Delta R.T. 0.00 min

Lab File: VU035543.D

Acq: 29 Oct 2019 17:32

Tgt Ion:	43	Resp:	7194
Ion Ratio	Lower	Upper	
43	100		
58	27.7	27.6	41.4





#14

Carbon Disulfide

Concen: 0.297 ug/l

RT: 2.83 min Scan# 462

Delta R.T. 0.00 min

Lab File: VU035543.D

Acq: 29 Oct 2019 17:32

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 76 Resp: 18835

Ion Ratio Lower Upper

76 100

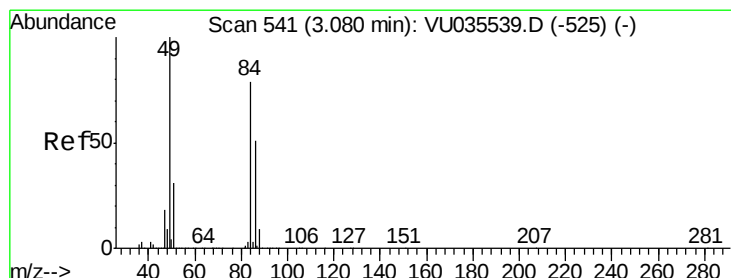
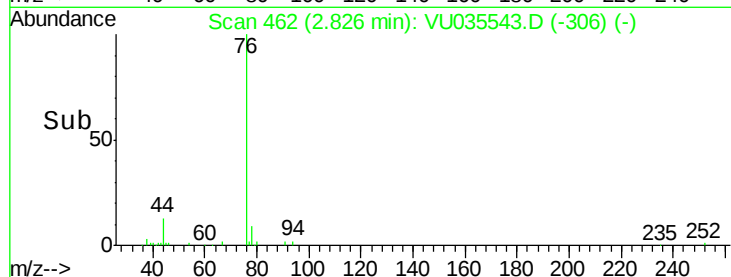
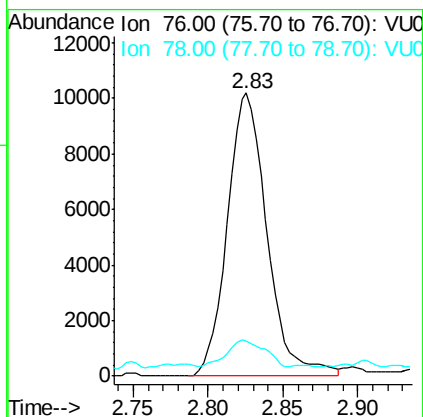
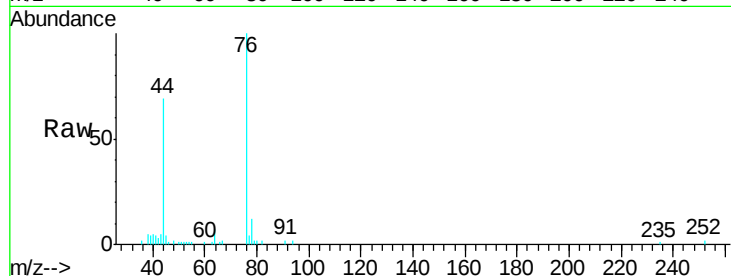
78 8.4 7.4 11.2

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#15

Methylene Chloride

Concen: 0.427 ug/l

RT: 3.09 min Scan# 543

Delta R.T. 0.01 min

Lab File: VU035543.D

Acq: 29 Oct 2019 17:32

Tgt Ion: 84 Resp: 9849

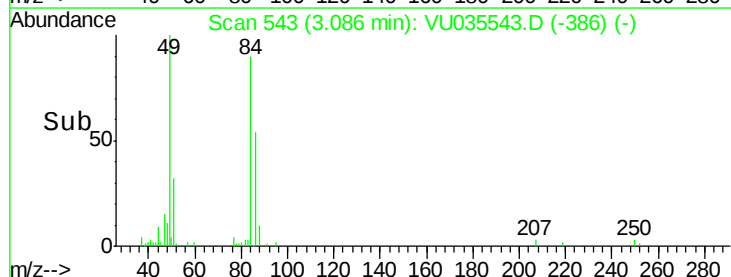
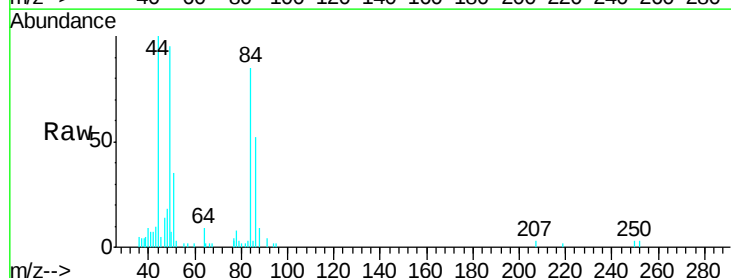
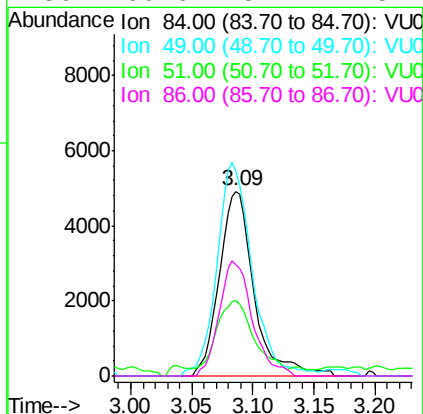
Ion Ratio Lower Upper

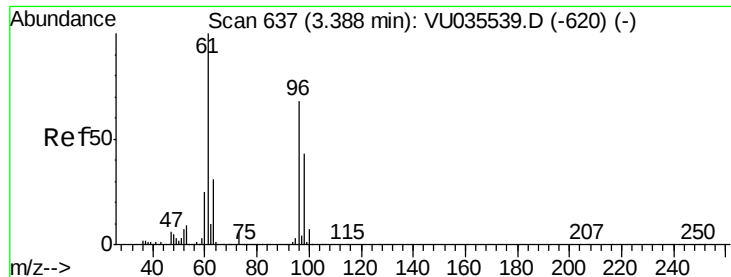
84 100

49 108.0 101.5 152.3

51 36.9 0.0 78.6

86 60.6 52.2 78.2





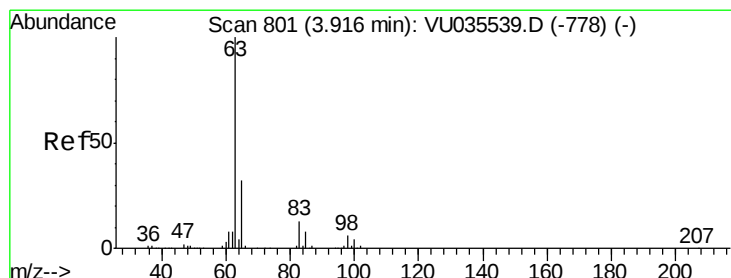
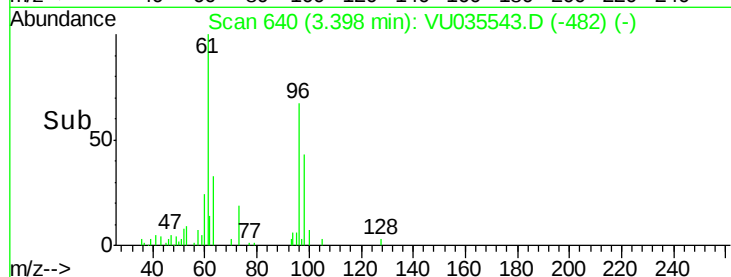
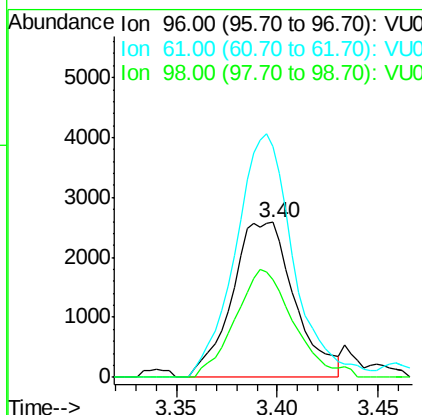
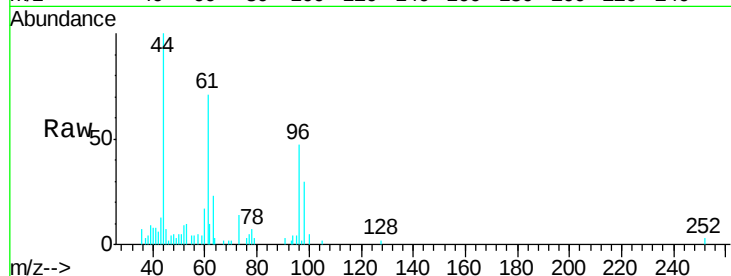
#16
trans-1,2-Dichloroethene
Concen: 0.283 ug/l
RT: 3.40 min Scan# 640
Delta R.T. 0.01 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tgt Ion	Ratio	Lower	Upper
96	100		
61	148.9	117.8	176.8
98	63.5	50.2	75.2

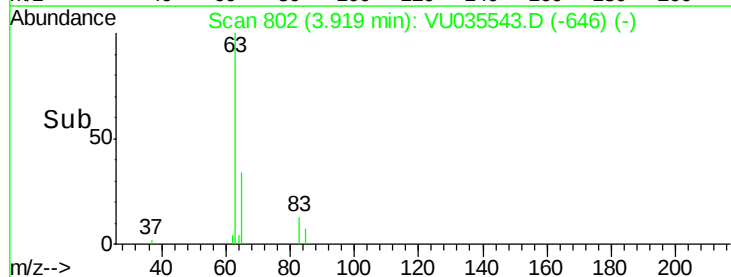
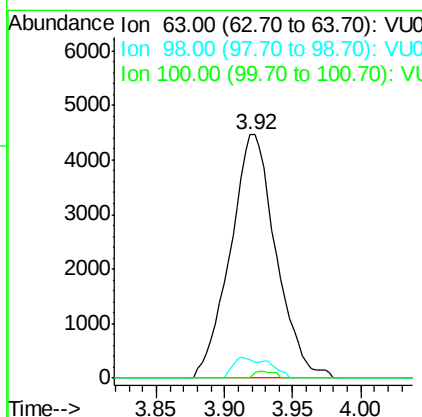
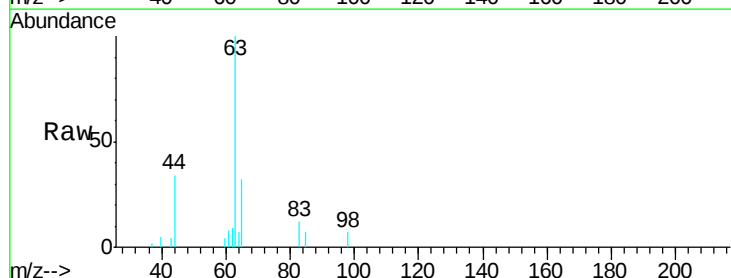
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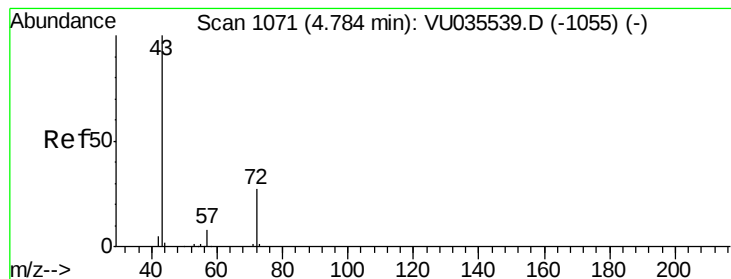
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#17
1,1-Dichloroethane
Concen: 0.281 ug/l
RT: 3.92 min Scan# 802
Delta R.T. 0.00 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Tgt Ion	Ratio	Lower	Upper
63	100		
98	7.5	3.1	9.3
100	0.0	2.1	6.3





#18

2-Butanone

Concen: 1.058 ug/l

RT: 4.80 min Scan# 1075

Delta R.T. 0.01 min

Lab File: VU035543.D

Acq: 29 Oct 2019 17:32

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 43 Resp: 5998

Ion Ratio Lower Upper

43 100

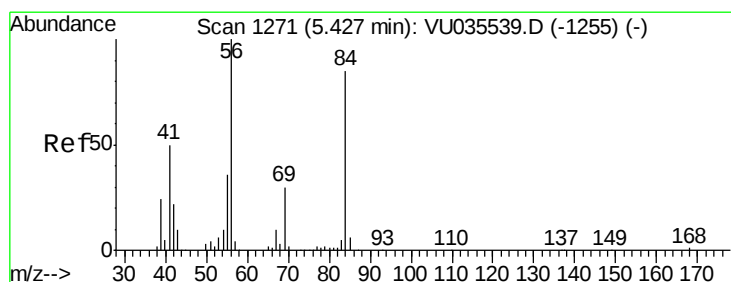
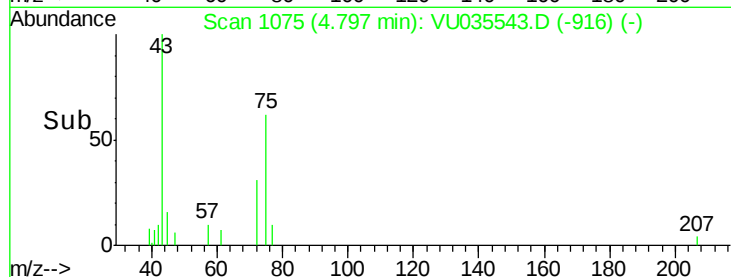
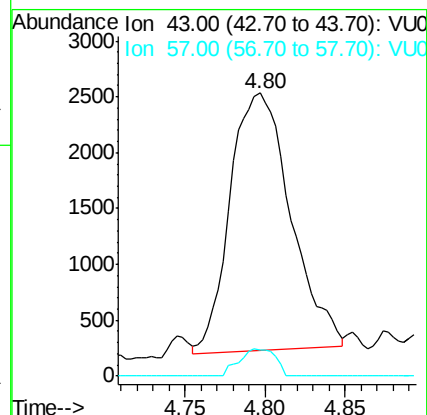
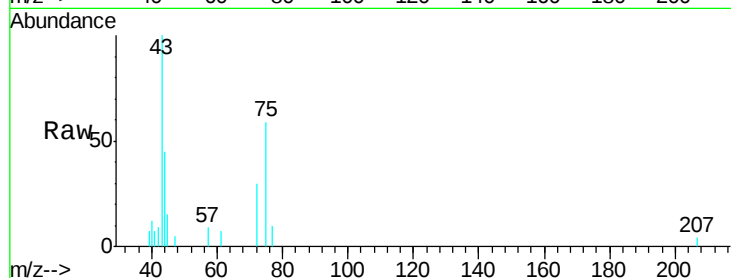
57 10.3 0.0 17.0

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#19

Cyclohexane

Concen: 0.244 ug/l m

RT: 5.43 min Scan# 1272

Delta R.T. 0.00 min

Lab File: VU035543.D

Acq: 29 Oct 2019 17:32

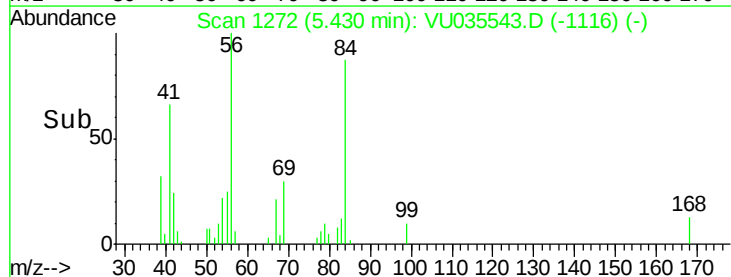
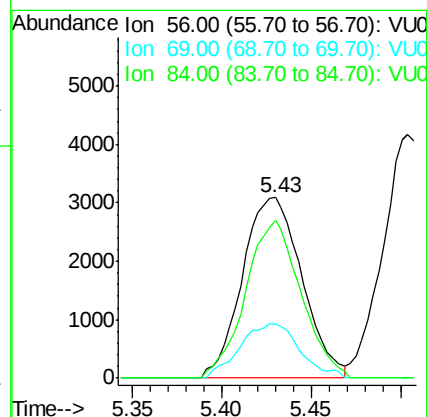
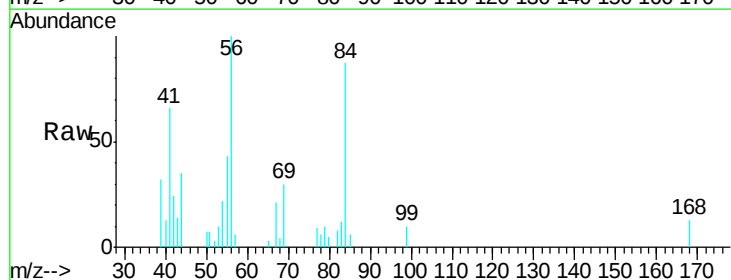
Tgt Ion: 56 Resp: 7162

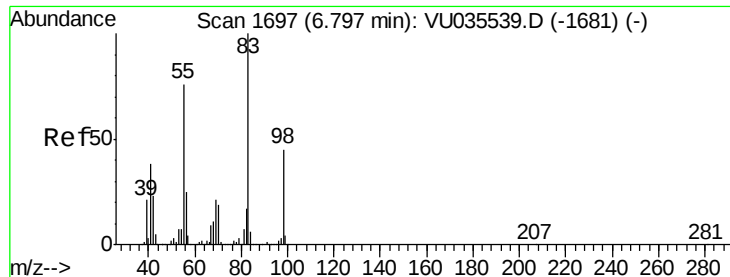
Ion Ratio Lower Upper

56 100

69 30.1 26.4 39.6

84 81.1 72.9 109.3





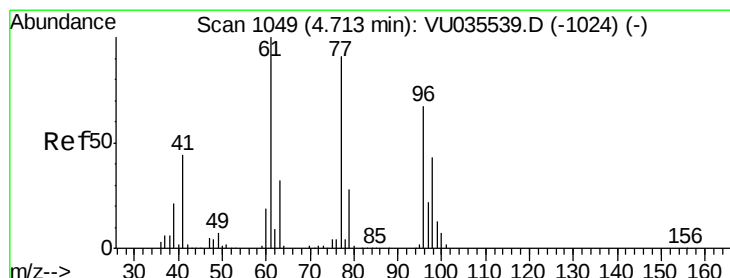
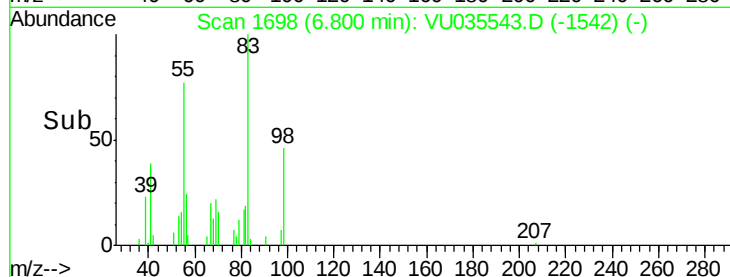
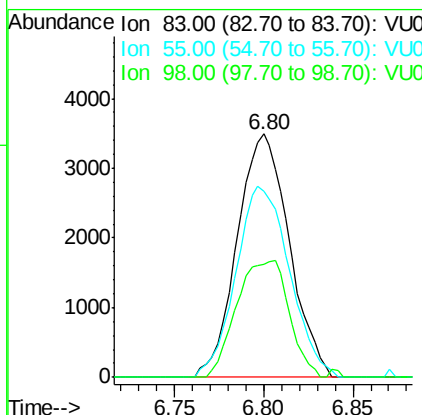
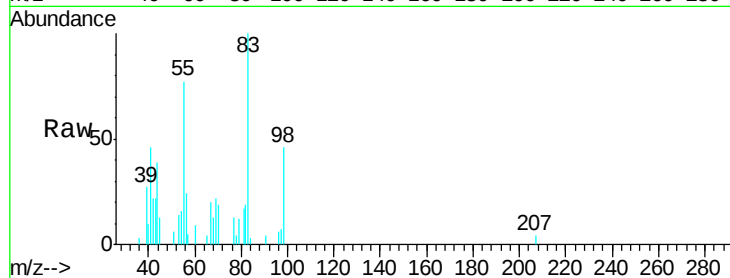
#20
Methylcyclohexane
Concen: 0.236 ug/l
RT: 6.80 min Scan# 1698
Delta R.T. 0.00 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tgt Ion	Ratio	Lower	Upper
83	100		
55	81.2	61.2	91.8
98	48.4	36.7	55.1

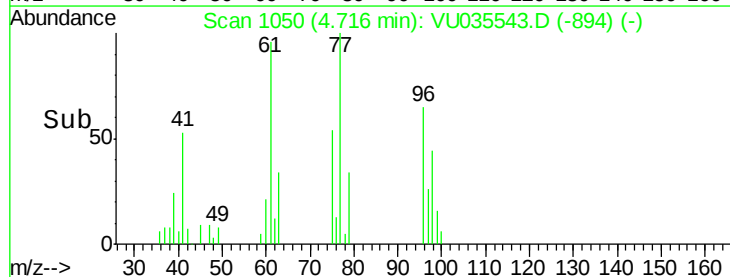
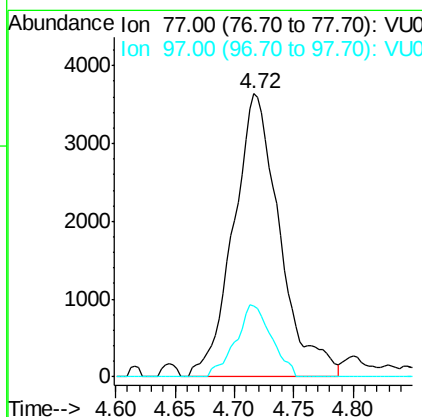
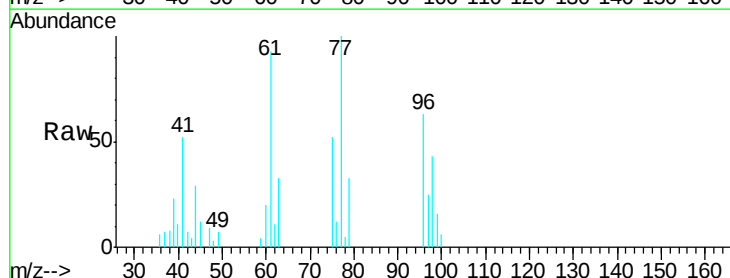
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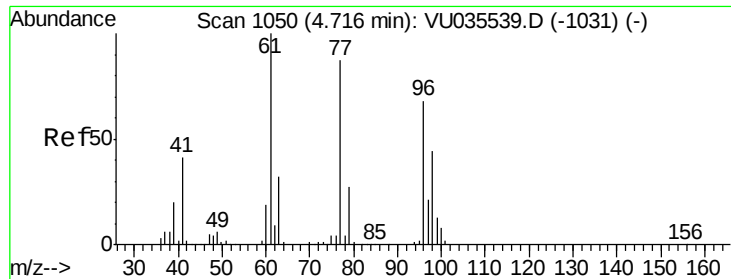
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#21
2,2-Dichloropropane
Concen: 0.307 ug/l
RT: 4.72 min Scan# 1050
Delta R.T. 0.00 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Tgt Ion	Ratio	Lower	Upper
77	100		
97	19.7	18.8	28.2





#22

cis-1,2-Dichloroethene

Concen: 0.271 ug/l

RT: 4.72 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VU035543.D

Acq: 29 Oct 2019 17:32

Instrument :

MSVOA_U

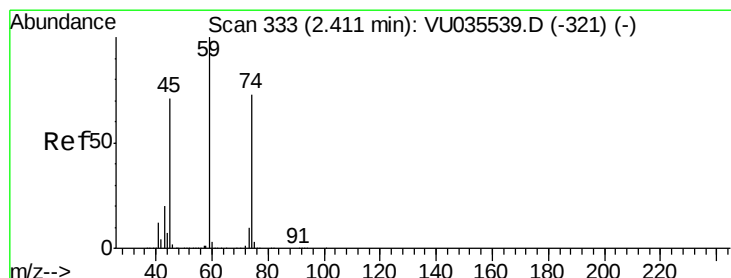
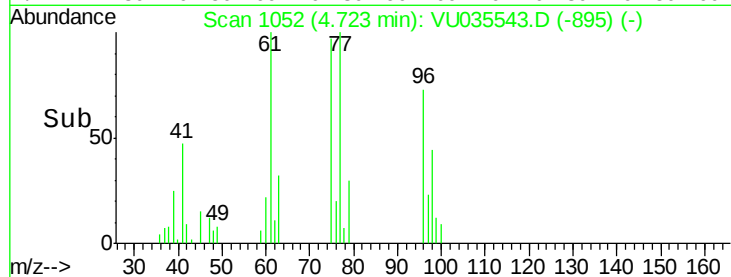
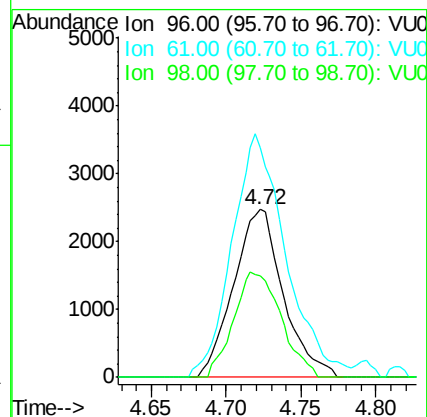
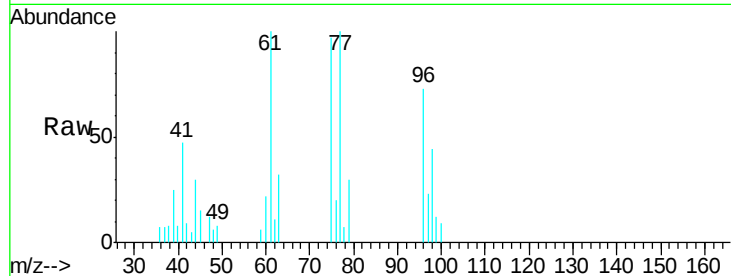
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tgt Ion:	96	Resp:	5724
Ion	Ratio	Lower	Upper
96	100		
61	156.8	0.0	370.5
98	59.7	31.8	95.4

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#23

Diethyl Ether

Concen: 0.266 ug/l

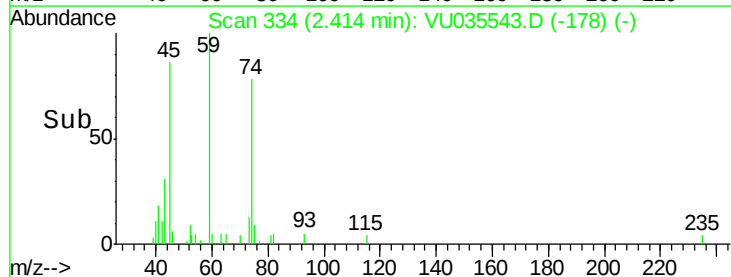
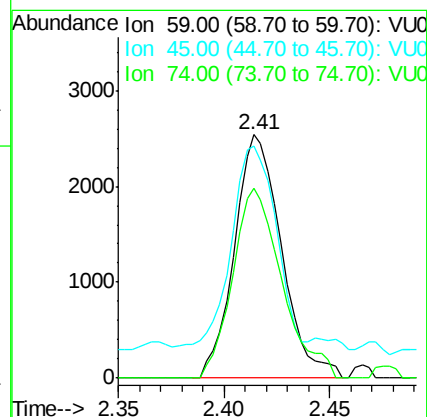
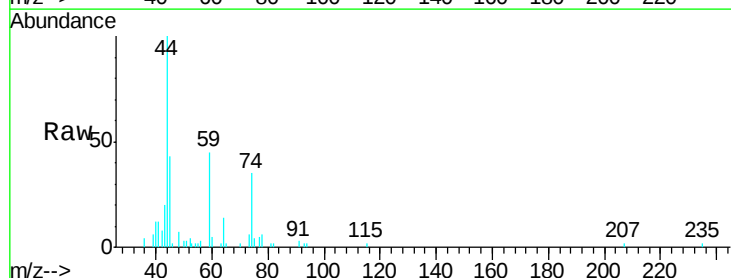
RT: 2.41 min Scan# 334

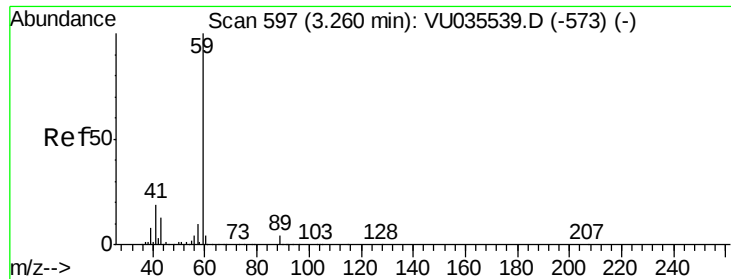
Delta R.T. 0.00 min

Lab File: VU035543.D

Acq: 29 Oct 2019 17:32

Tgt Ion:	59	Resp:	3933
Ion	Ratio	Lower	Upper
59	100		
45	77.1	56.9	85.3
74	81.4	59.5	89.3





#24

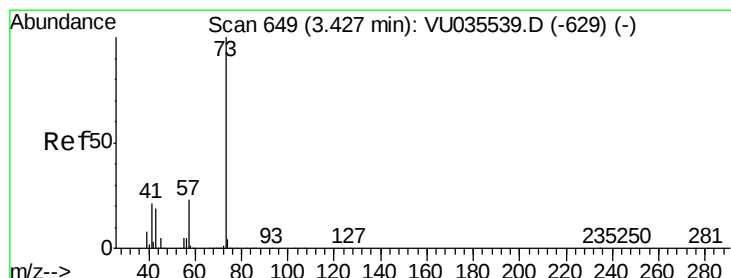
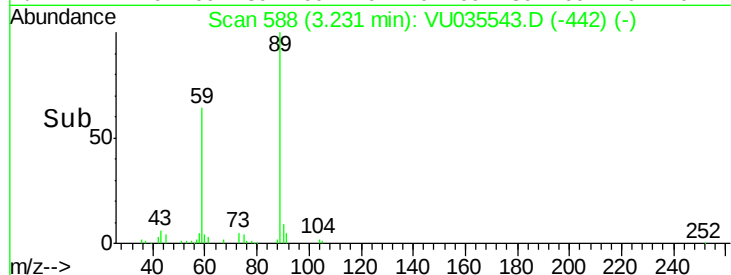
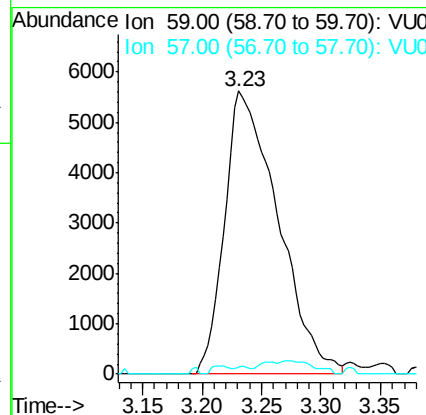
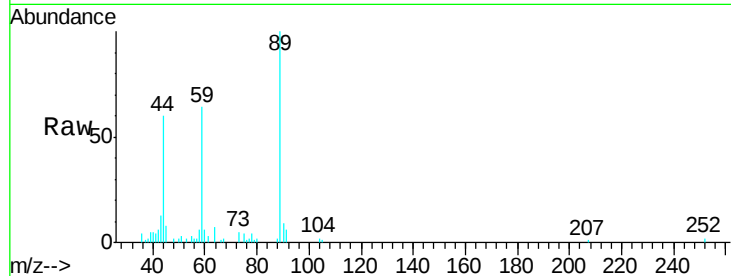
tert-Butyl Alcohol
Concen: 10.552 ug/l
RT: 3.23 min Scan# 588
Delta R.T. -0.03 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 59 Resp: 17417
Ion Ratio Lower Upper
59 100
57 1.0 7.4 11.0#

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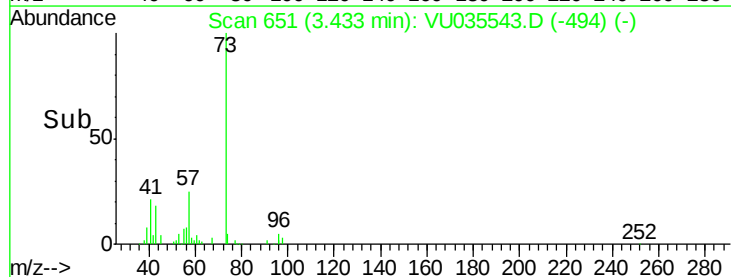
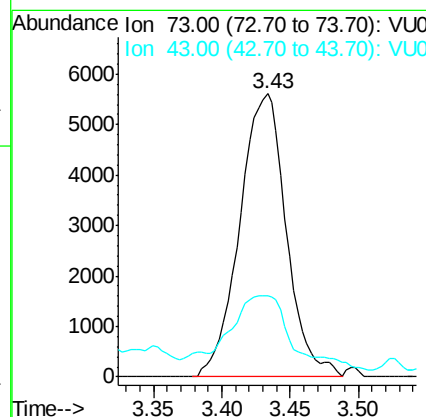
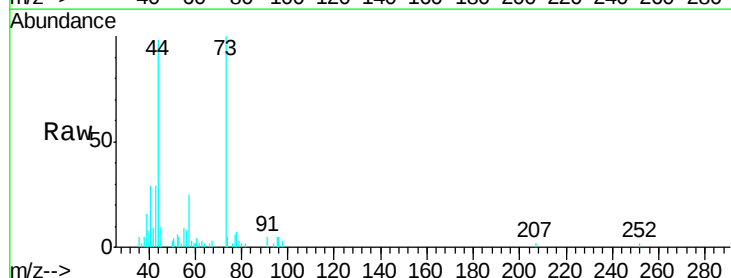
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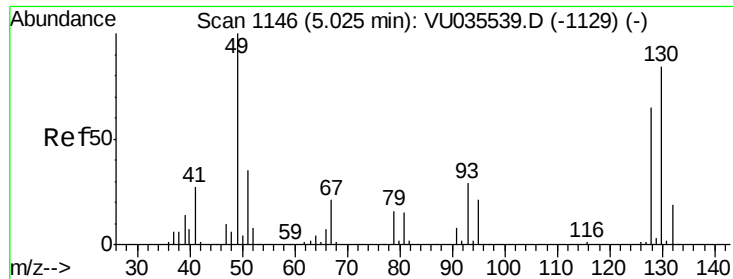


#25

Methyl tert-Butyl Ether
Concen: 0.277 ug/l
RT: 3.43 min Scan# 651
Delta R.T. 0.01 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Tgt Ion: 73 Resp: 13317
Ion Ratio Lower Upper
73 100
43 32.9 15.4 23.2#





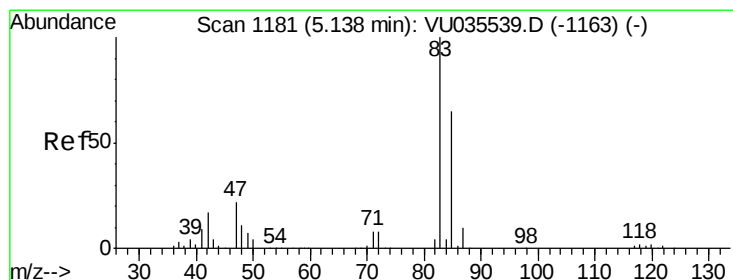
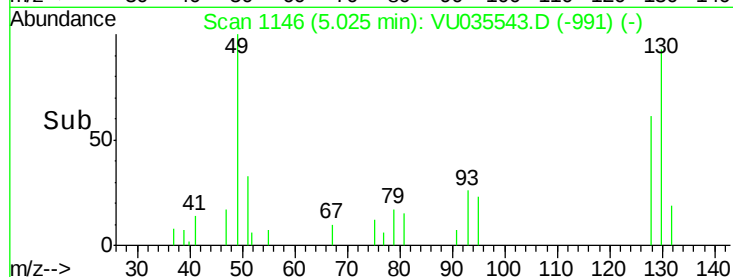
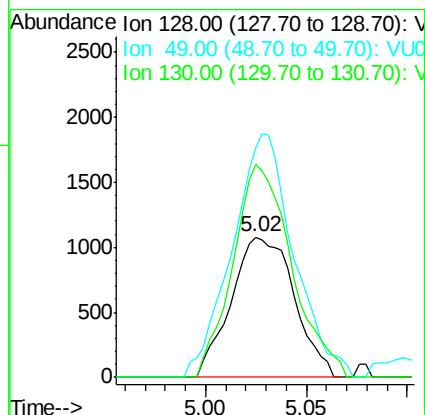
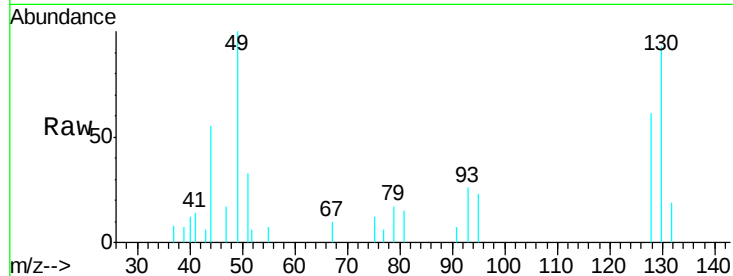
#26
Bromochloromethane
Concen: 0.249 ug/l
RT: 5.02 min Scan# 1146
Delta R.T. -0.00 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tgt Ion	Ratio	Lower	Upper
128	100		
49	169.7	0.0	309.0
130	141.6	101.8	152.8

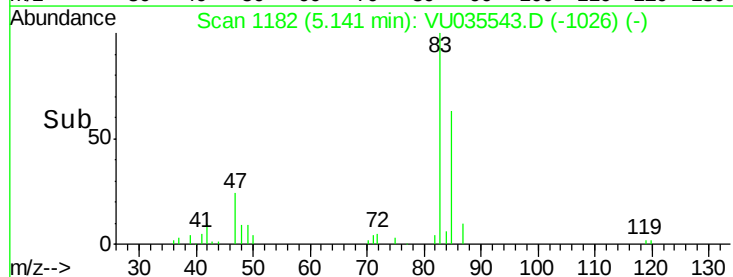
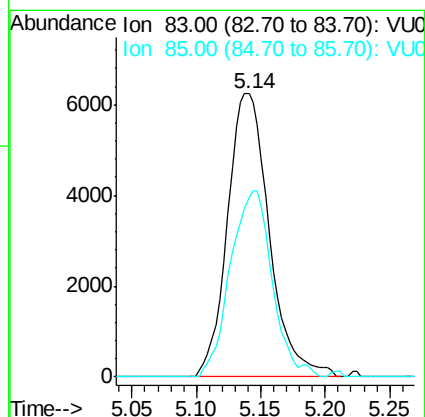
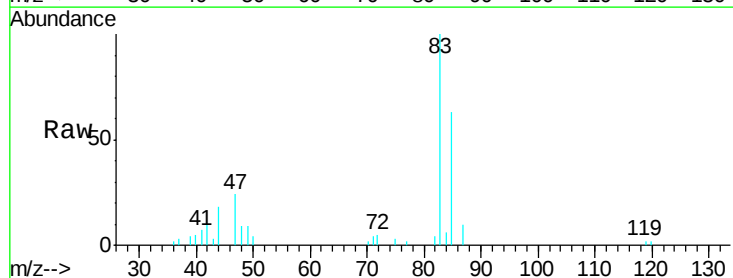
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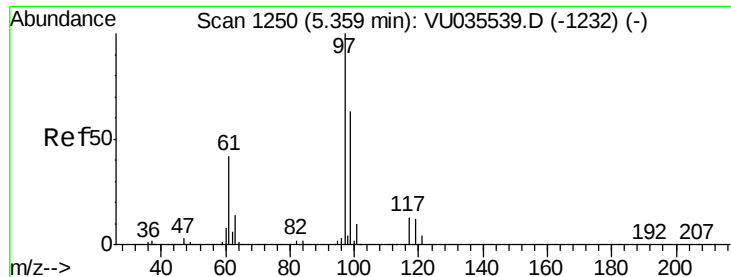
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#27
Chloroform
Concen: 0.356 ug/l
RT: 5.14 min Scan# 1182
Delta R.T. 0.00 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.3	0.0	130.6





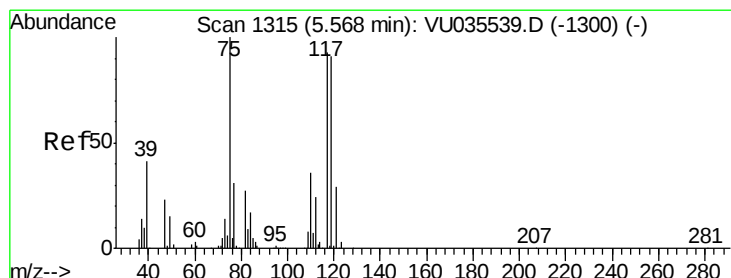
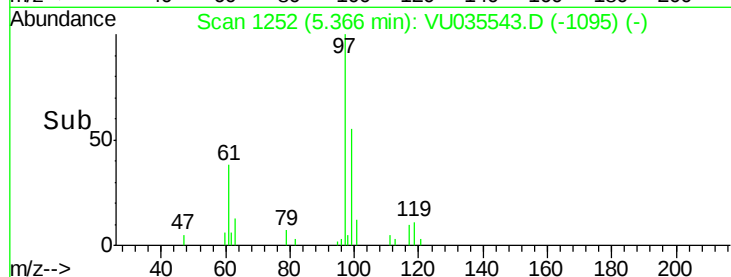
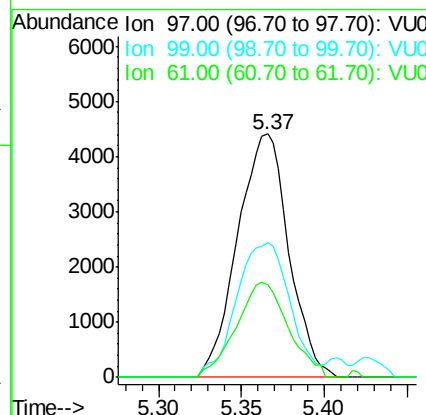
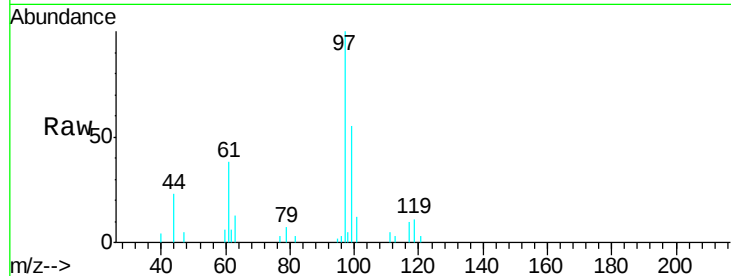
#28
 1,1,1-Trichloroethane
 Concen: 0.302 ug/l
 RT: 5.37 min Scan# 1252
 Delta R.T. 0.01 min
 Lab File: VU035543.D
 Acq: 29 Oct 2019 17:32

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tgt Ion	Ratio	Lower	Upper
97	100		
99	58.0	32.6	97.7
61	39.8	21.8	65.4

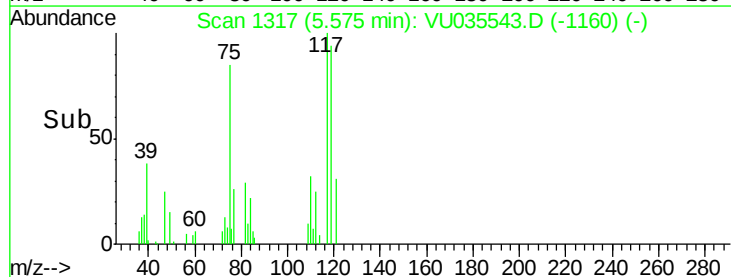
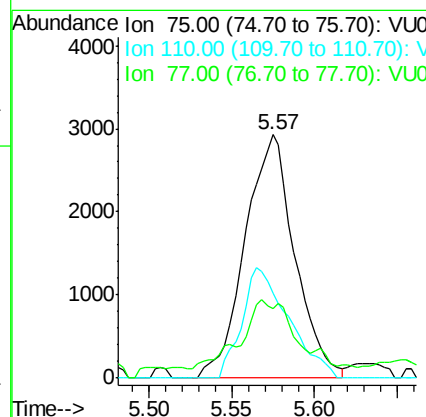
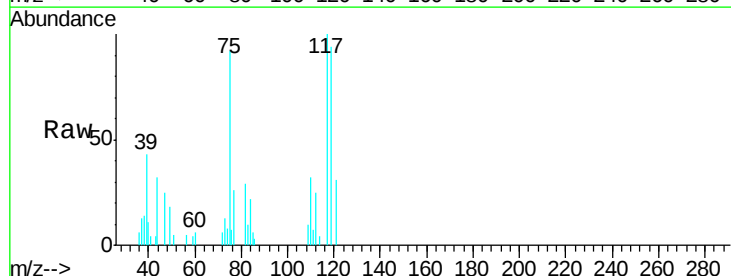
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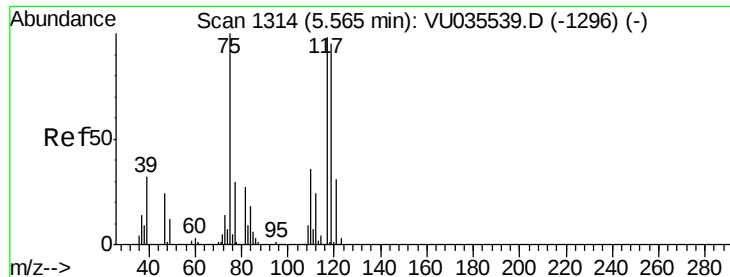
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#29
 1,1-Dichloropropene
 Concen: 0.232 ug/l
 RT: 5.57 min Scan# 1317
 Delta R.T. 0.01 min
 Lab File: VU035543.D
 Acq: 29 Oct 2019 17:32

Tgt Ion	Ratio	Lower	Upper
75	100		
110	42.7	18.3	54.8
77	27.9	24.6	37.0





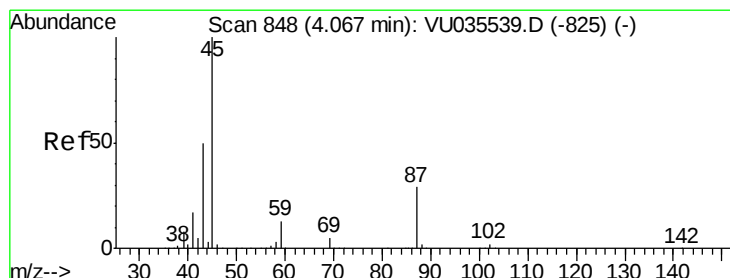
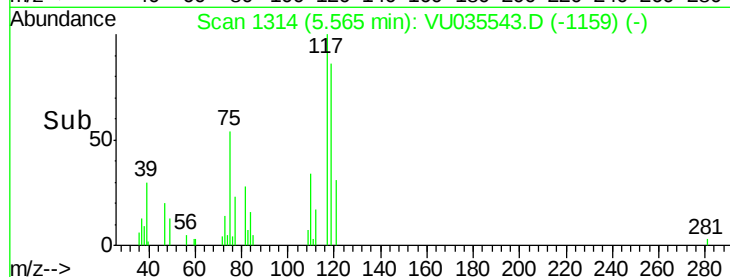
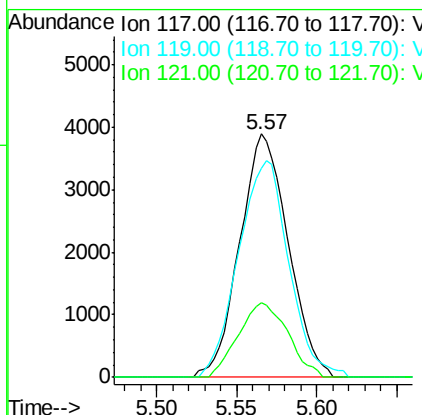
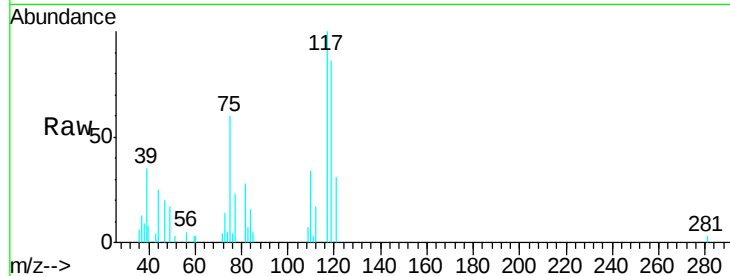
#30
Carbon Tetrachloride
Concen: 0.289 ug/l
RT: 5.57 min Scan# 1314
Delta R.T. -0.00 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tgt Ion	Ratio	Lower	Upper
117	100		
119	86.0	77.3	115.9
121	30.5	25.2	37.8

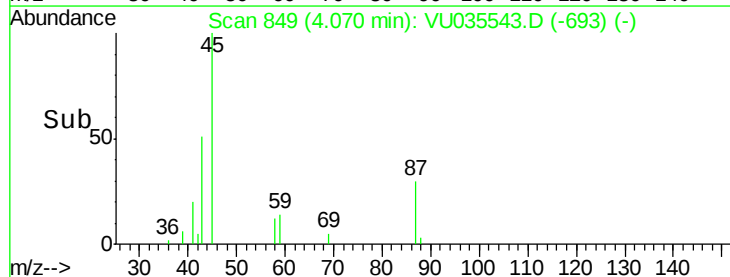
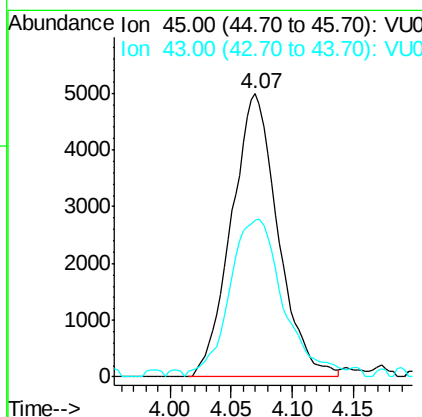
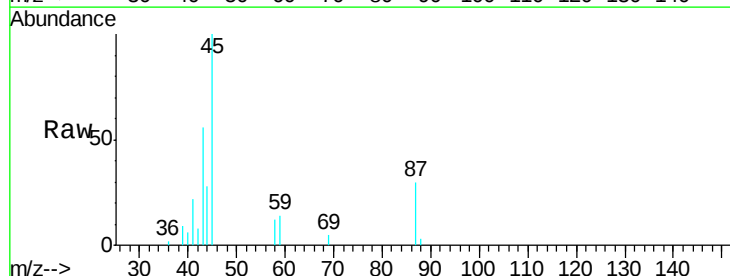
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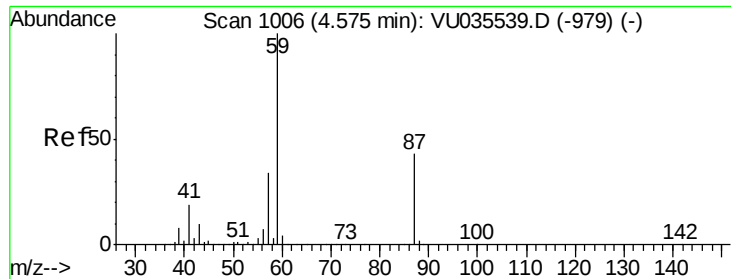
MMDadoda
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#31
Isopropyl Ether
Concen: 0.256 ug/l
RT: 4.07 min Scan# 849
Delta R.T. 0.00 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Tgt Ion	Ratio	Lower	Upper
45	100		
43	64.5	25.3	75.8





#32

Ethyl-t-butyl ether

Concen: 0.252 ug/l

RT: 4.58 min Scan# 1007

Delta R.T. 0.00 min

Lab File: VU035543.D

Acq: 29 Oct 2019 17:32

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 59 Resp: 12071

Ion Ratio Lower Upper

59 100

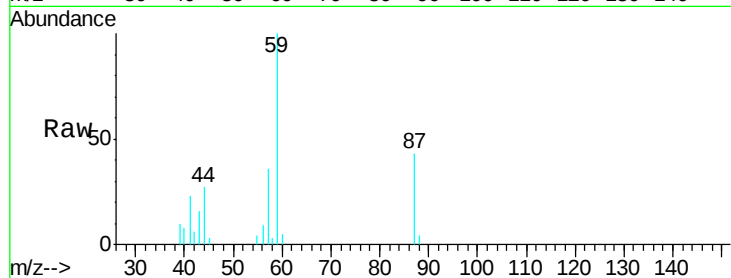
87 40.9 33.9 50.9

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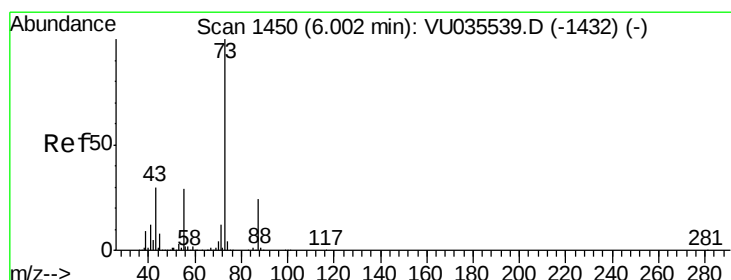
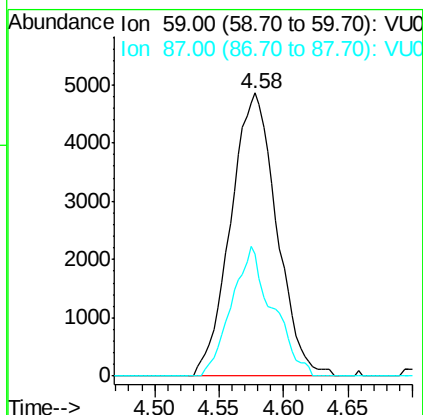
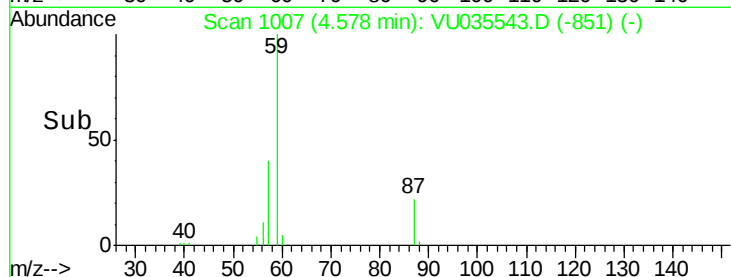


Abundance Ion 59.00 (58.70 to 59.70): VU035539.D (-979) (-)

Ion 87.00 (86.70 to 87.70): VU035539.D (-979) (-)

4.58

Time-->



#33

Tert-Amyl methyl ether

Concen: 0.242 ug/l

RT: 6.00 min Scan# 1450

Delta R.T. -0.00 min

Lab File: VU035543.D

Acq: 29 Oct 2019 17:32

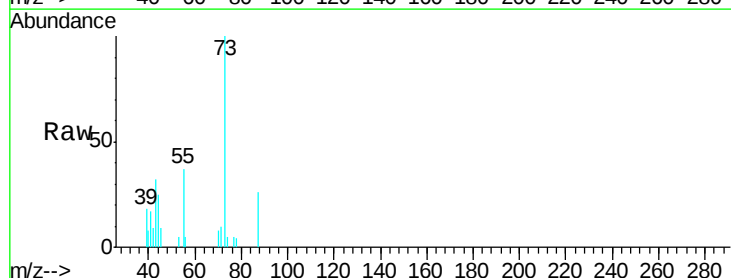
Tgt Ion: 73 Resp: 9935

Ion Ratio Lower Upper

73 100

87 23.7 19.5 29.3

71 10.2 9.4 14.2



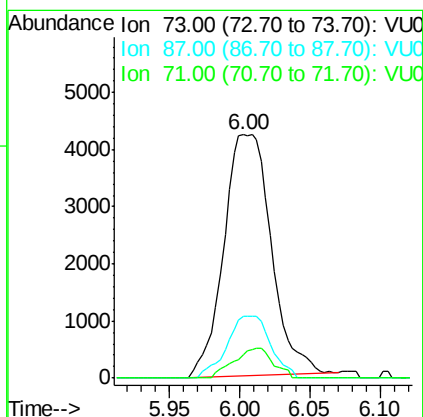
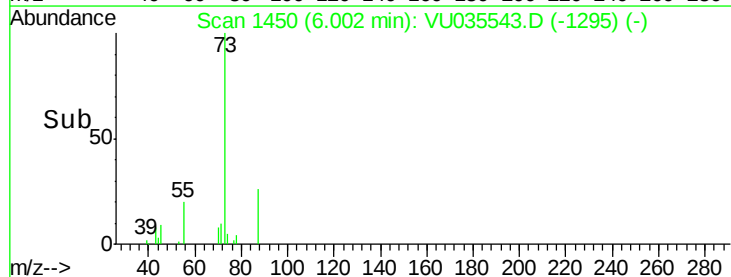
Abundance Ion 73.00 (72.70 to 73.70): VU035539.D (-1432) (-)

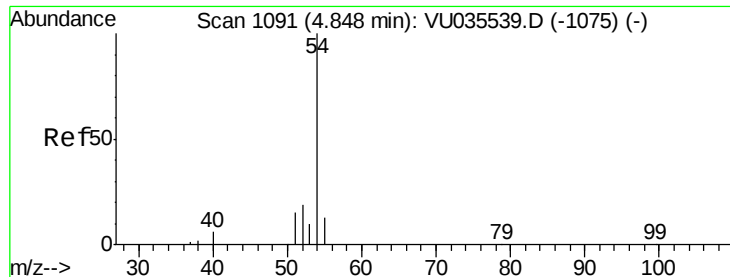
Ion 87.00 (86.70 to 87.70): VU035539.D (-1432) (-)

Ion 71.00 (70.70 to 71.70): VU035539.D (-1432) (-)

6.00

Time-->





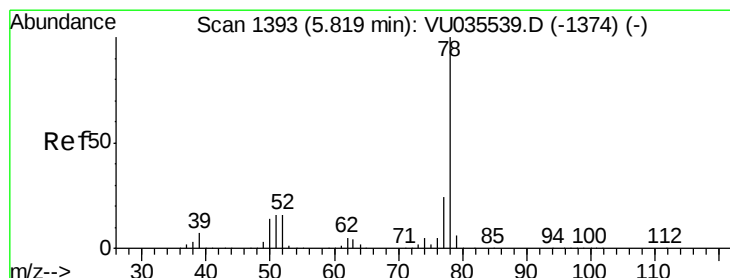
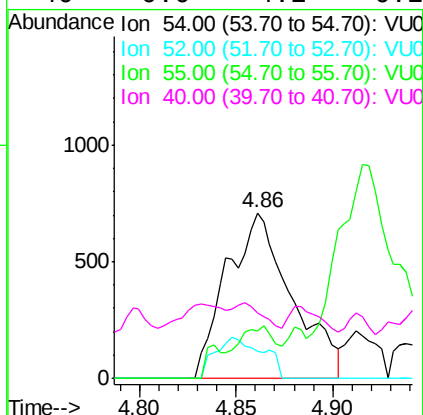
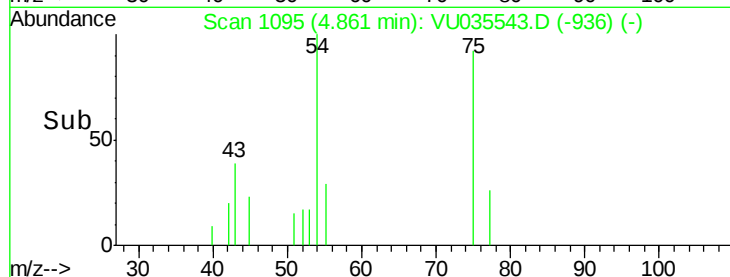
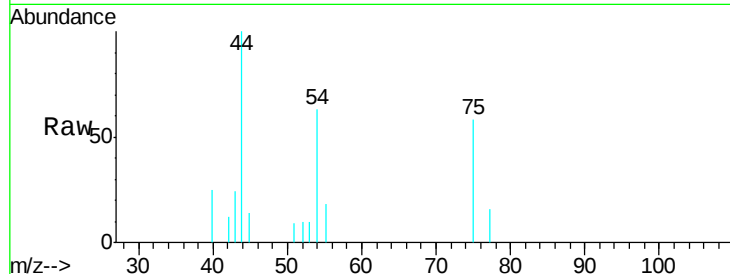
#34
 Propionitrile
 Concen: 1.013 ug/l
 RT: 4.86 min Scan# 1095
 Delta R.T. 0.01 min
 Lab File: VU035543.D
 Acq: 29 Oct 2019 17:32

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tgt Ion:	54	Resp:	1664
Ion	Ratio	Lower	Upper
54	100		
52	18.0	14.6	21.8
55	12.8	11.7	17.5
40	0.0	4.2	6.2#

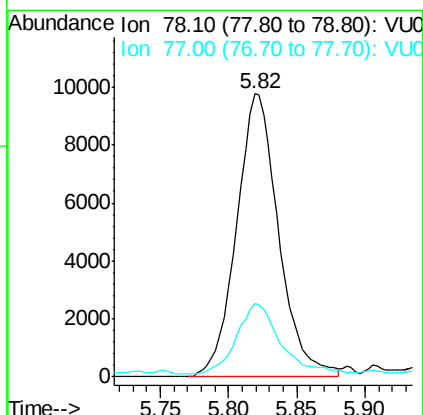
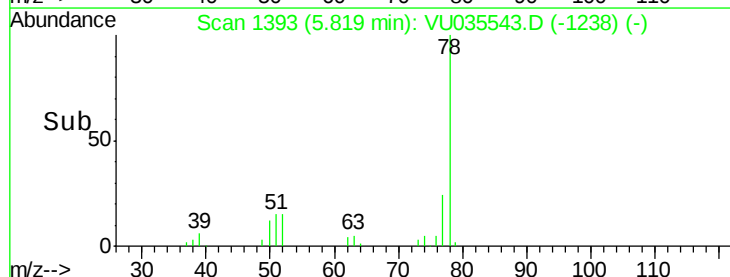
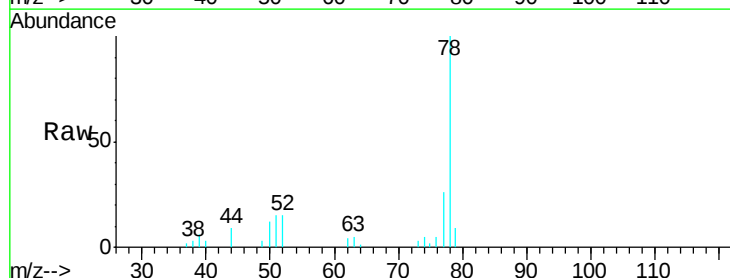
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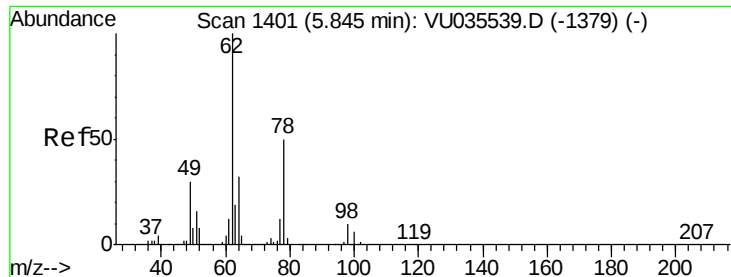
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#35
 Benzene
 Concen: 0.261 ug/l
 RT: 5.82 min Scan# 1393
 Delta R.T. -0.00 min
 Lab File: VU035543.D
 Acq: 29 Oct 2019 17:32

Tgt Ion:	78	Resp:	20931
Ion	Ratio	Lower	Upper
78	100		
77	24.7	19.0	28.4





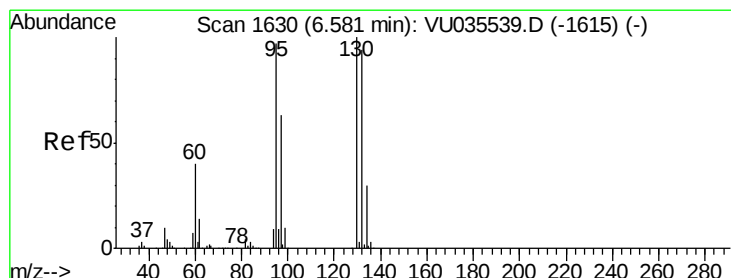
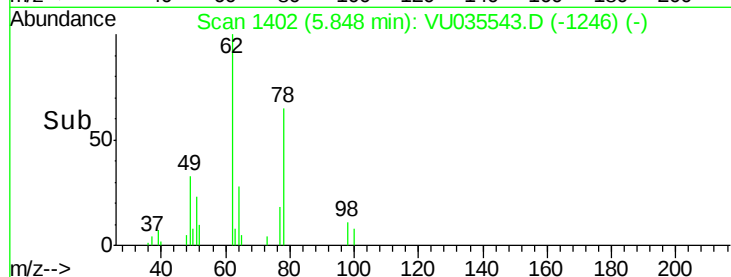
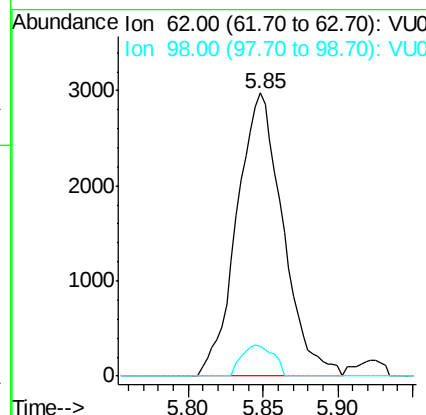
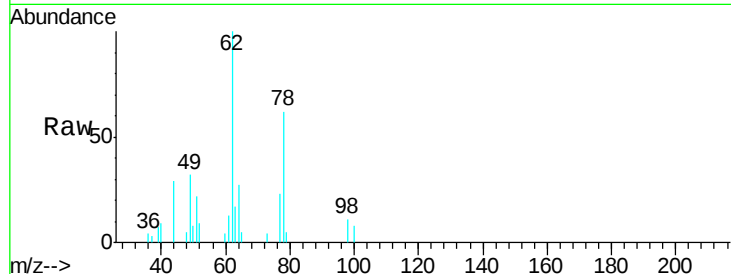
#36
1,2-Dichloroethane
Concen: 0.277 ug/l
RT: 5.85 min Scan# 1402
Delta R.T. 0.00 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tgt Ion	Ratio	Resp	Lower	Upper
62	100	6360		
98	7.6		7.5	11.3

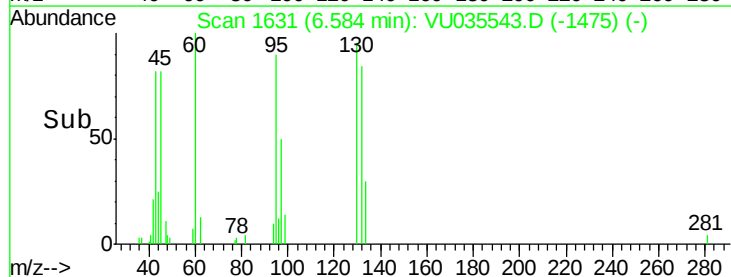
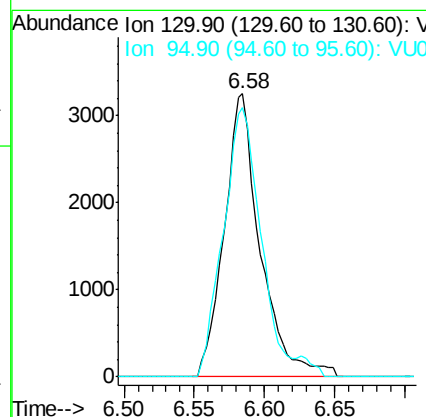
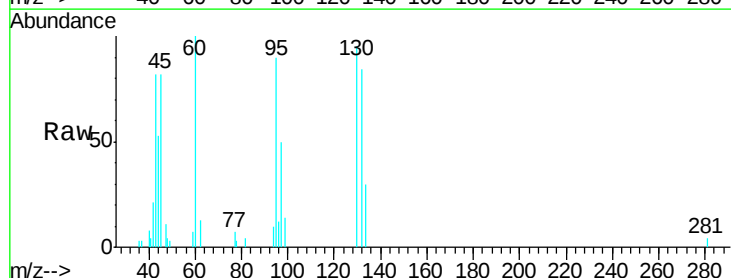
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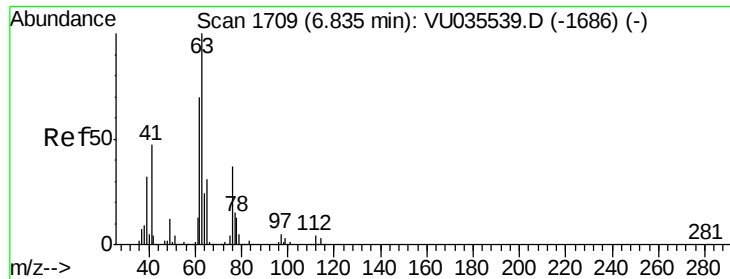
MMDadoda
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#37
Trichloroethene
Concen: 0.259 ug/l
RT: 6.58 min Scan# 1631
Delta R.T. 0.00 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	5774		
95	95.3		77.5	116.3





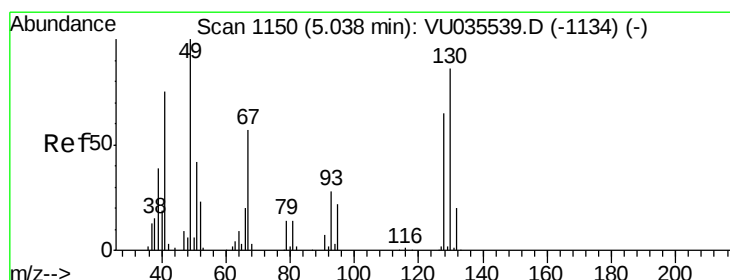
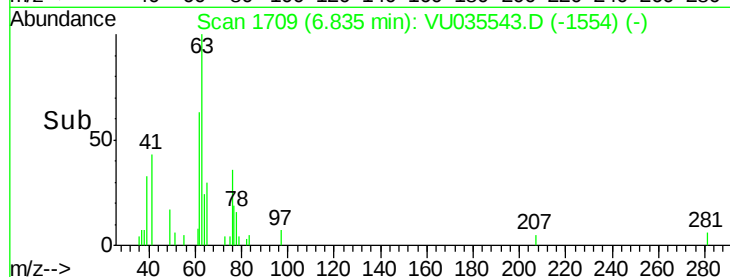
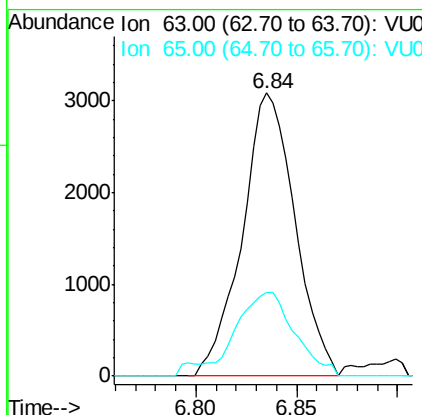
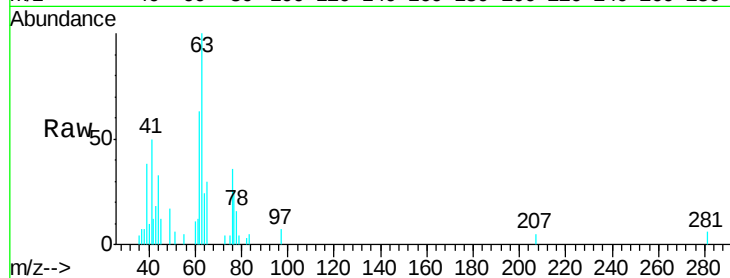
#38
 1,2-Dichloropropane
 Concen: 0.257 ug/l
 RT: 6.84 min Scan# 1709
 Delta R.T. -0.00 min
 Lab File: VU035543.D
 Acq: 29 Oct 2019 17:32

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 63 Resp: 5639
 Ion Ratio Lower Upper
 63 100
 65 29.7 25.0 37.6

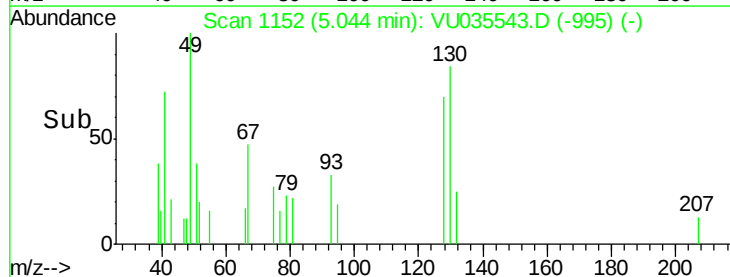
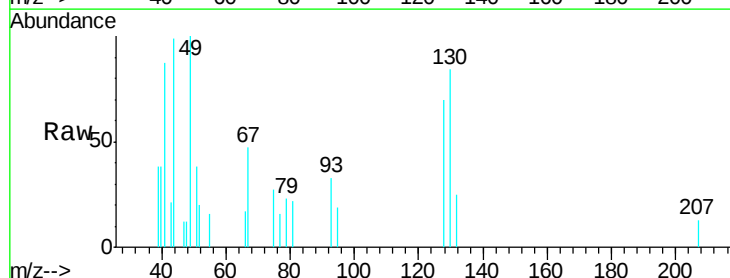
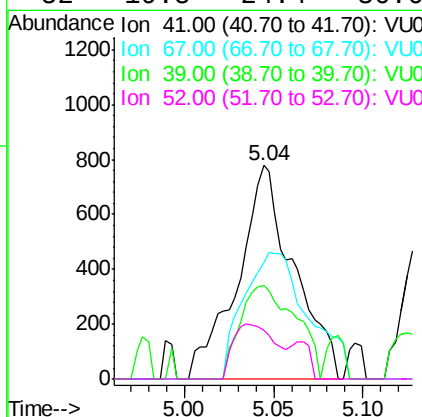
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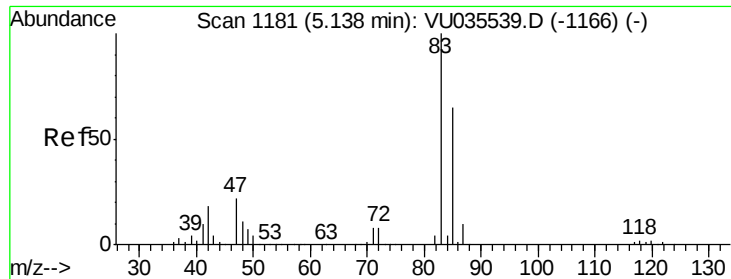
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#39
 Methacrylonitrile
 Concen: 0.278 ug/l
 RT: 5.04 min Scan# 1152
 Delta R.T. 0.01 min
 Lab File: VU035543.D
 Acq: 29 Oct 2019 17:32

Tgt Ion: 41 Resp: 1714
 Ion Ratio Lower Upper
 41 100
 67 68.1 61.5 92.3
 39 43.2 41.3 61.9
 52 19.5 24.4 36.6#





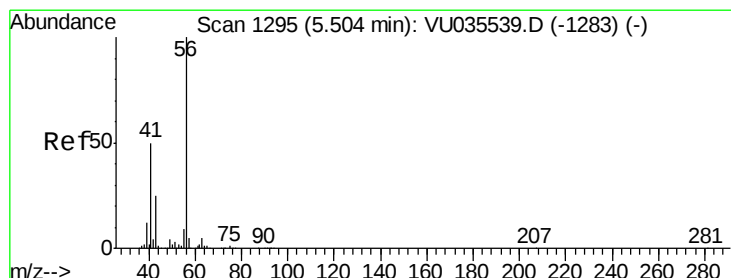
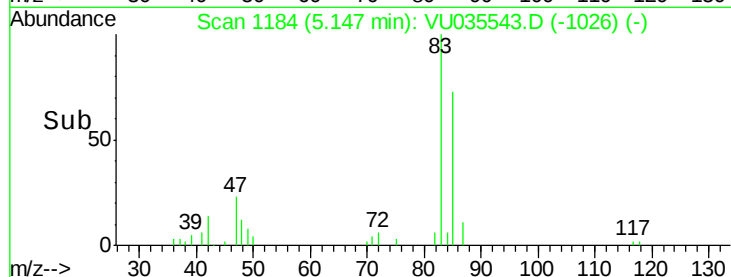
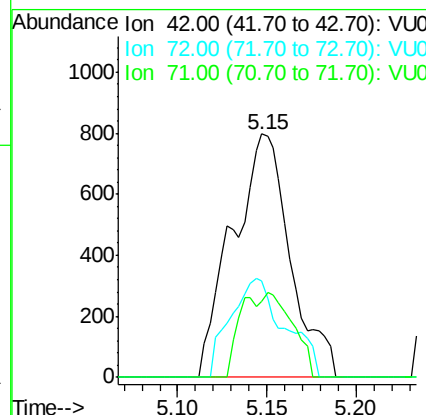
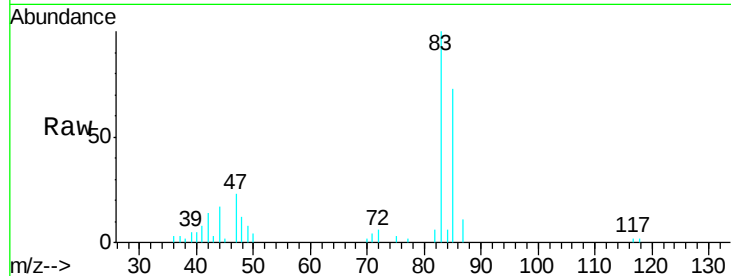
#41
Tetrahydrofuran
Concen: 0.569 ug/l
RT: 5.15 min Scan# 1184
Delta R.T. 0.01 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tgt Ion	Ratio	Resp	Lower	Upper
42	100	1804		
72	38.3	89.9	134.9#	
71	11.5	3.7	5.5#	

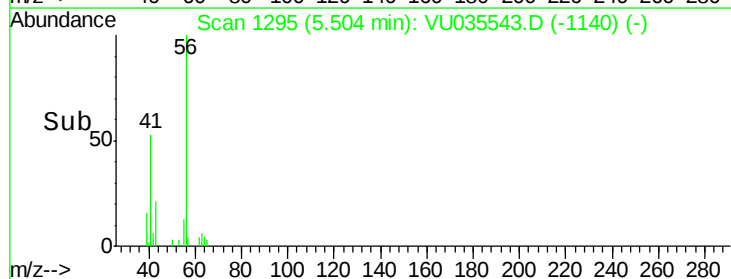
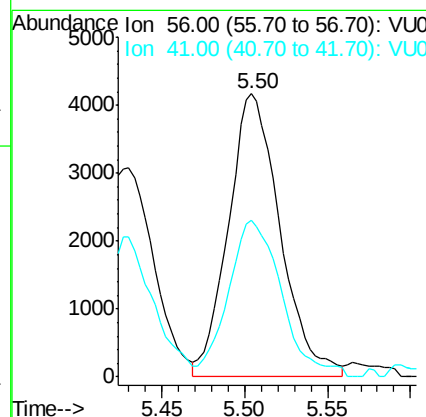
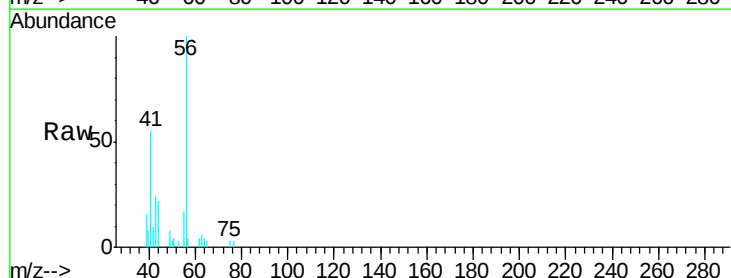
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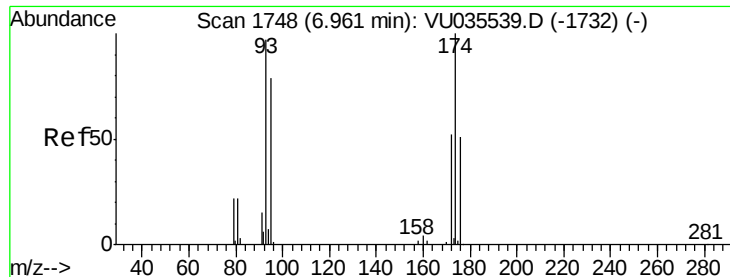
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#42
1-Chlorobutane
Concen: 0.250 ug/l
RT: 5.50 min Scan# 1295
Delta R.T. -0.00 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Tgt Ion	Ratio	Resp	Lower	Upper
56	100	9048		
41	56.7	25.5	76.5	





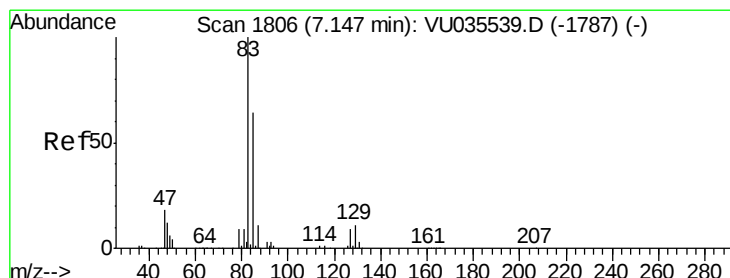
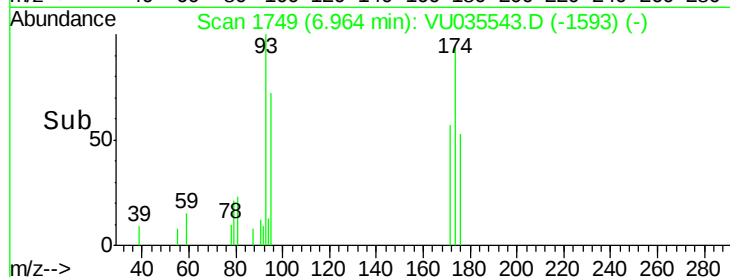
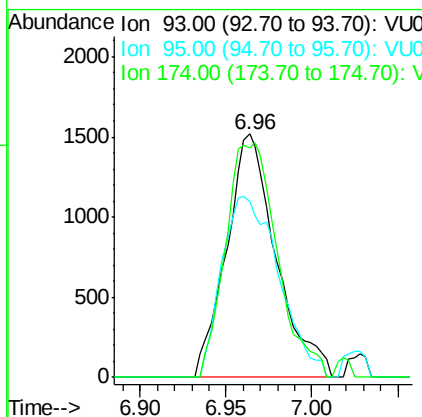
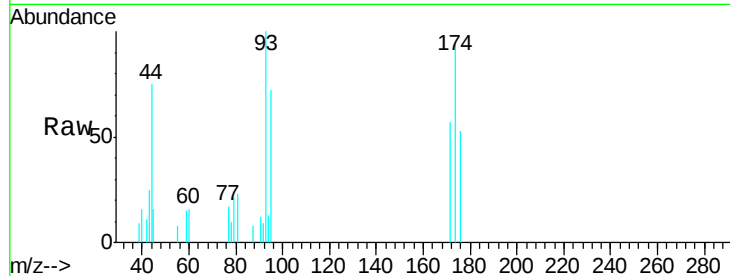
#43
Dibromomethane
Concen: 0.279 ug/l
RT: 6.96 min Scan# 1749
Delta R.T. 0.00 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 93 Resp: 3059
Ion Ratio Lower Upper
93 100
95 85.2 65.1 97.7
174 100.2 84.2 126.4

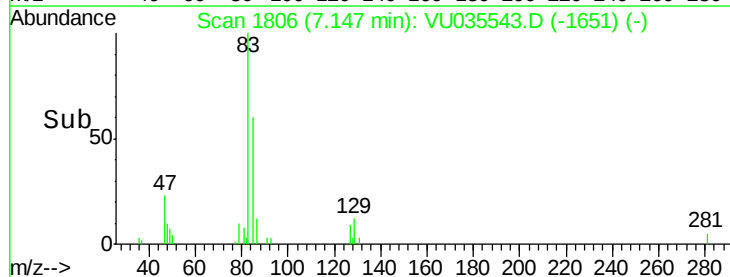
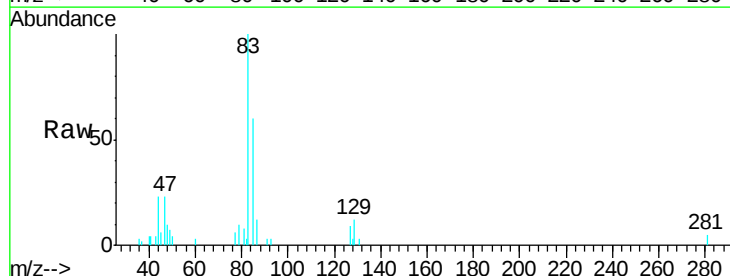
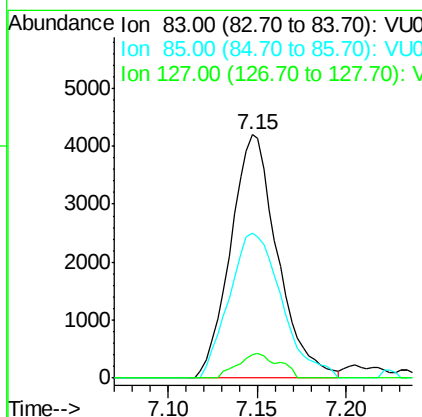
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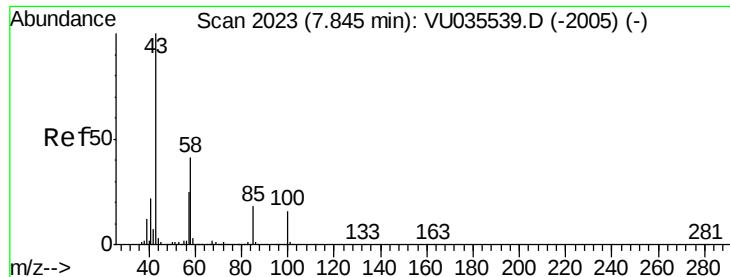
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#44
Bromodichloromethane
Concen: 0.282 ug/l
RT: 7.15 min Scan# 1806
Delta R.T. -0.00 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Tgt Ion: 83 Resp: 7709
Ion Ratio Lower Upper
83 100
85 59.7 51.6 77.4
127 9.4 7.0 10.4





#45

4-Methyl-2-Pentanone

Concen: 1.267 ug/l

RT: 7.86 min Scan# 2027

Delta R.T. 0.01 min

Lab File: VU035543.D

Acq: 29 Oct 2019 17:32

Instrument :

MSVOA_U

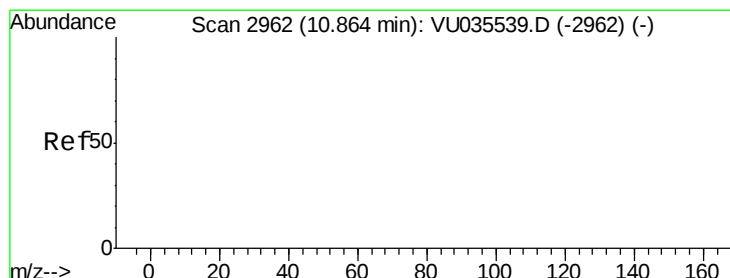
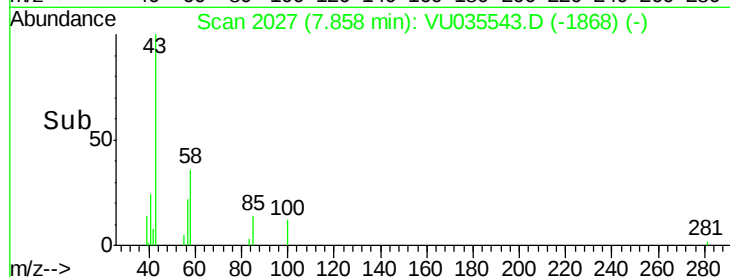
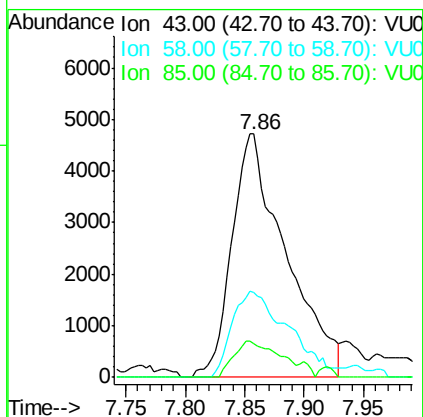
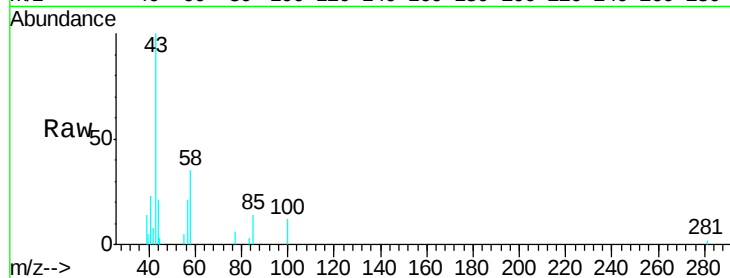
ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tgt Ion:	43	Resp:	14830
Ion Ratio		Lower	Upper
43	100		
58	36.5	20.6	61.8
85	12.1	14.5	21.7#

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#46

t-1,4-Dichloro-2-butene

Concen: 0.464 ug/l m

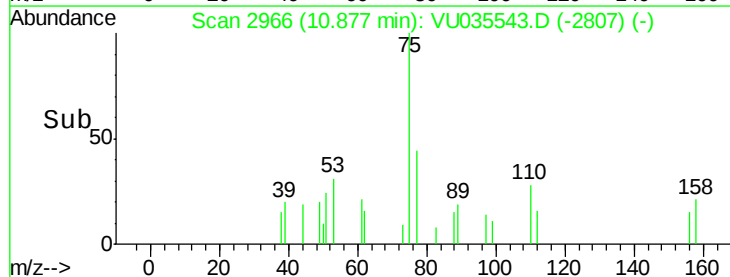
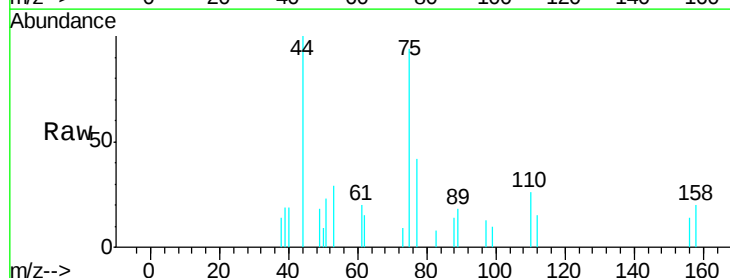
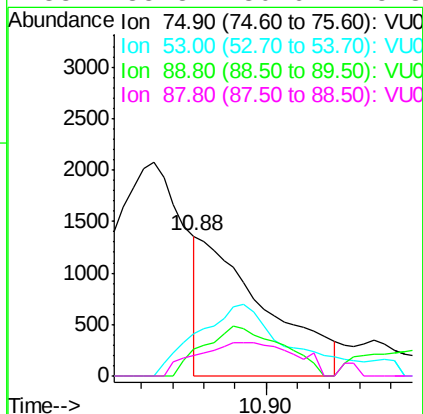
RT: 10.88 min Scan# 2966

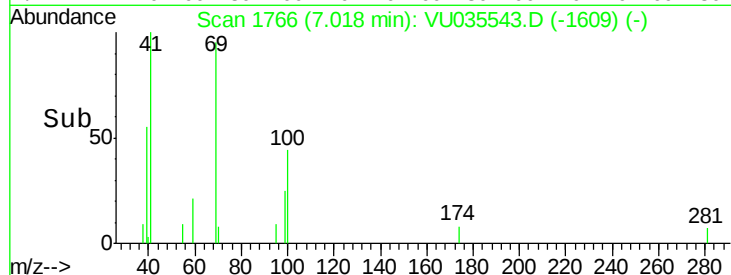
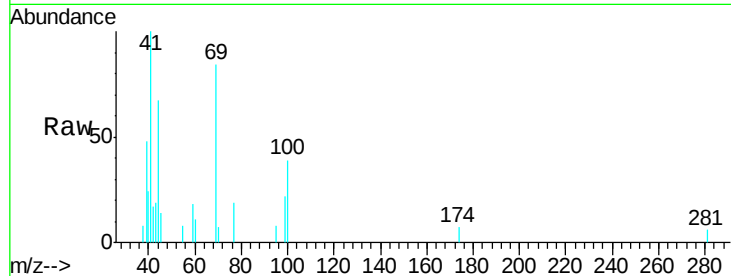
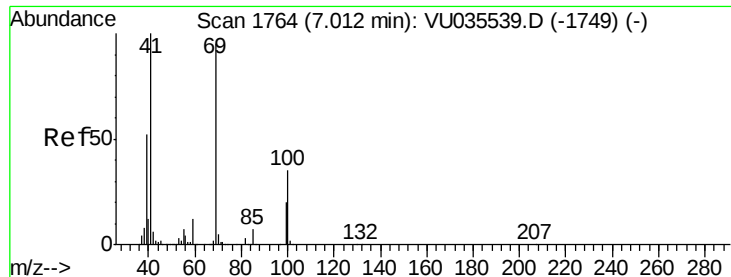
Delta R.T. 0.01 min

Lab File: VU035543.D

Acq: 29 Oct 2019 17:32

Tgt Ion:	75	Resp:	1975
Ion Ratio		Lower	Upper
75	100		
53	71.1	54.1	81.1
89	42.8	38.2	57.4
88	35.8	30.6	45.8





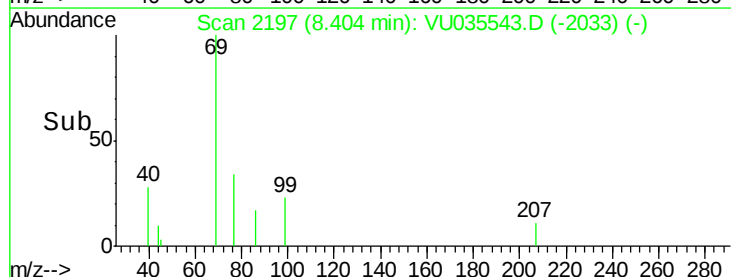
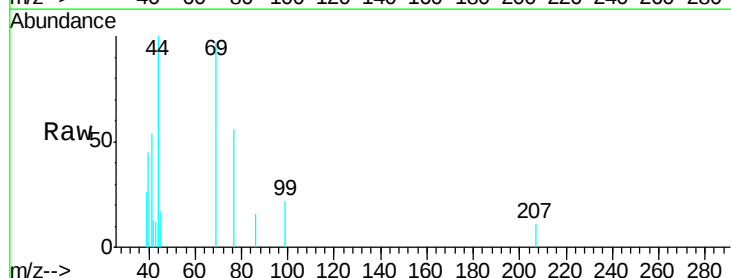
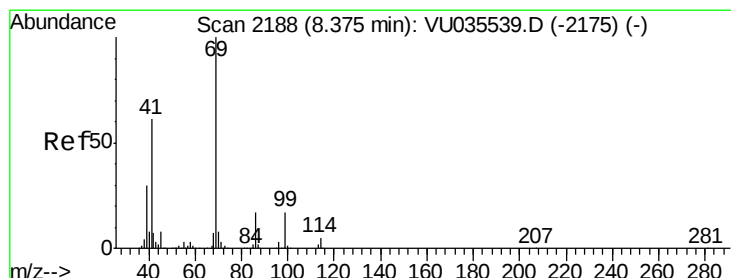
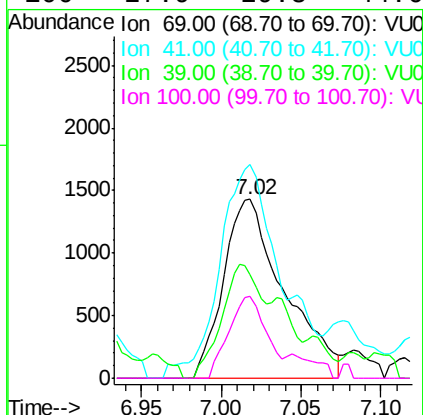
#47
Methyl methacrylate
Concen: 0.411 ug/l
RT: 7.02 min Scan# 1766
Delta R.T. 0.01 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Tgt Ion	Ratio	Lower	Upper
69	100		
41	120.3	0.0	216.8
39	40.5	45.1	67.7#
100	27.9	29.8	44.6#

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

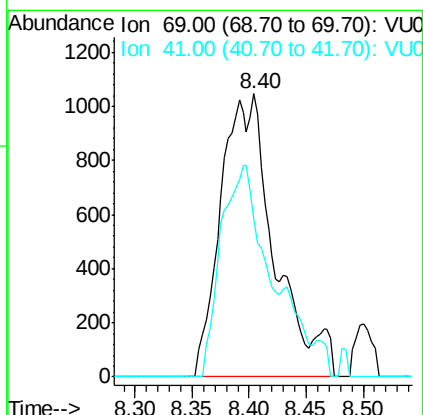
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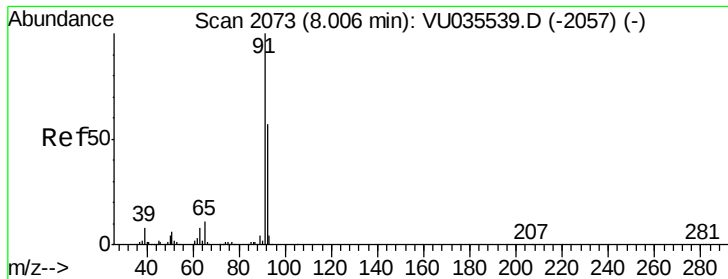
MMDadoda
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#48
Ethyl methacrylate
Concen: 0.215 ug/l m
RT: 8.40 min Scan# 2197
Delta R.T. 0.03 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Tgt Ion	Ratio	Lower	Upper
69	100		
41	59.1	30.4	91.2





#49

Toluene

Concen: 0.223 ug/l

RT: 8.01 min Scan# 2073

Delta R.T. -0.00 min

Lab File: VU035543.D

Acq: 29 Oct 2019 17:32

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 92 Resp: 10267

Ion Ratio Lower Upper

92 100

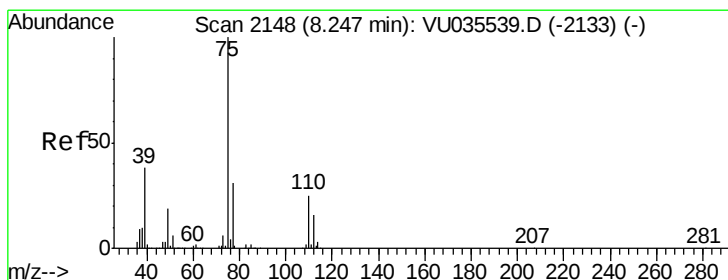
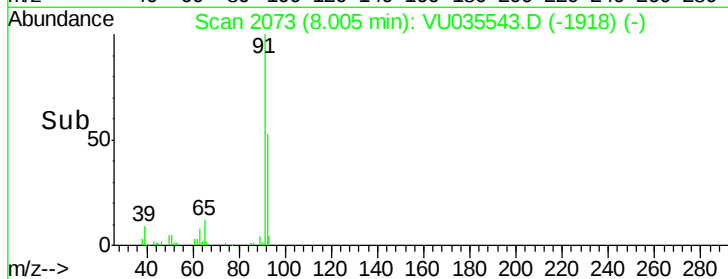
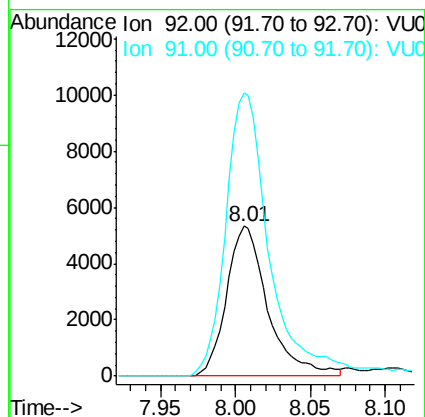
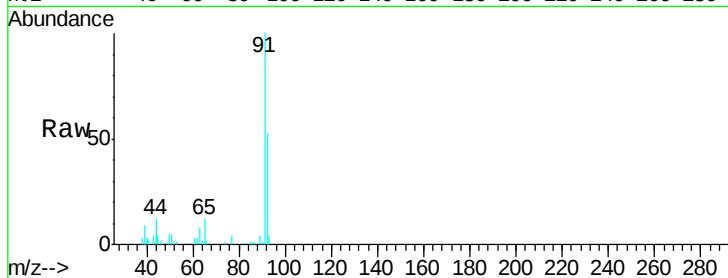
91 199.2 141.4 212.0

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#50

t-1,3-Dichloropropene

Concen: 0.235 ug/l

RT: 8.25 min Scan# 2149

Delta R.T. 0.00 min

Lab File: VU035543.D

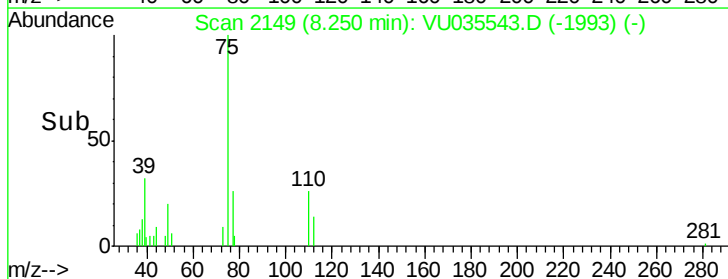
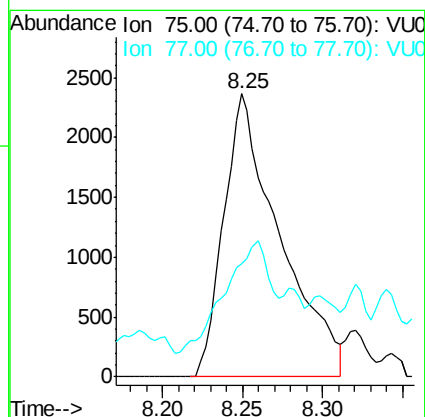
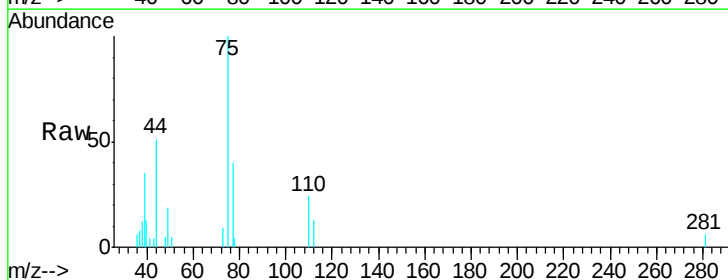
Acq: 29 Oct 2019 17:32

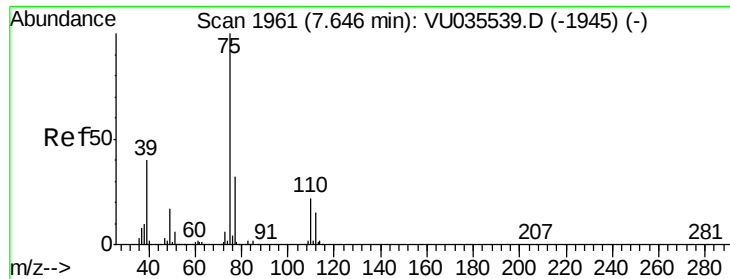
Tgt Ion: 75 Resp: 5691

Ion Ratio Lower Upper

75 100

77 27.4 25.2 37.8





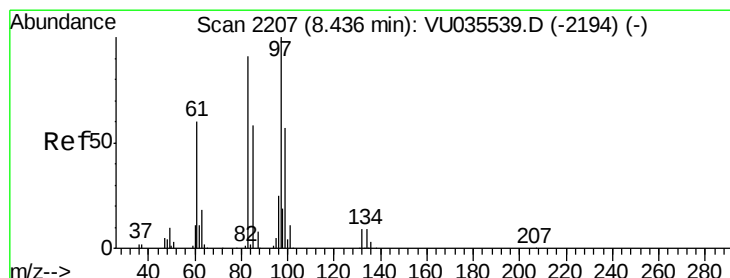
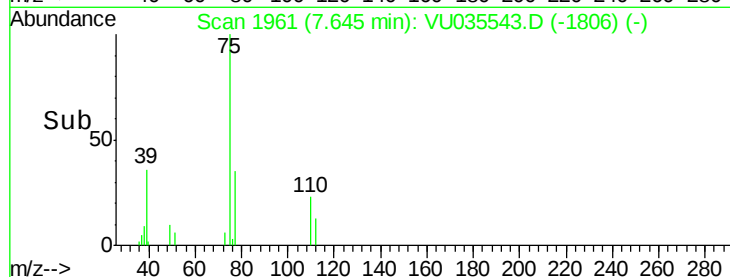
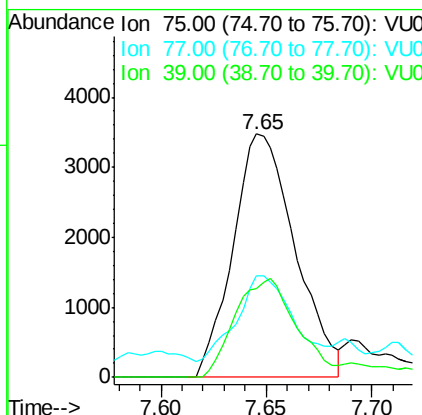
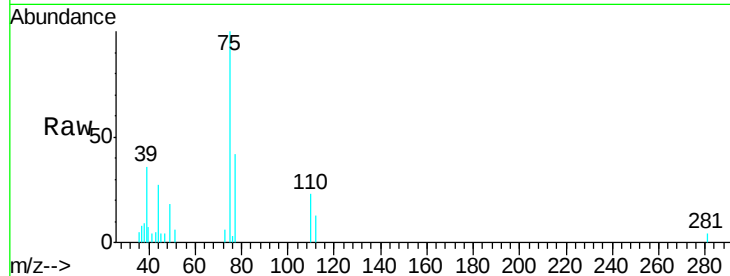
#51
 cis-1,3-Dichloropropene
 Concen: 0.247 ug/l
 RT: 7.65 min Scan# 1961
 Delta R.T. -0.00 min
 Lab File: VU035543.D
 Acq: 29 Oct 2019 17:32

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tgt Ion	Ratio	Lower	Upper
75	100		
77	34.1	25.2	37.8
39	36.3	32.1	48.1

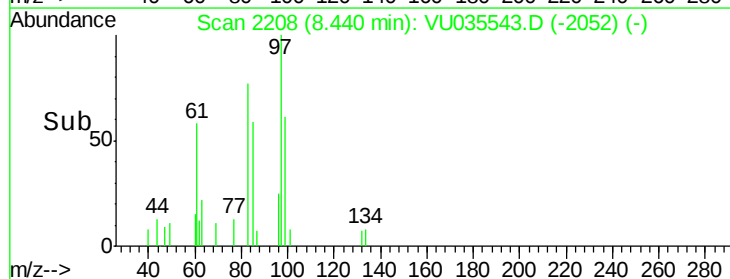
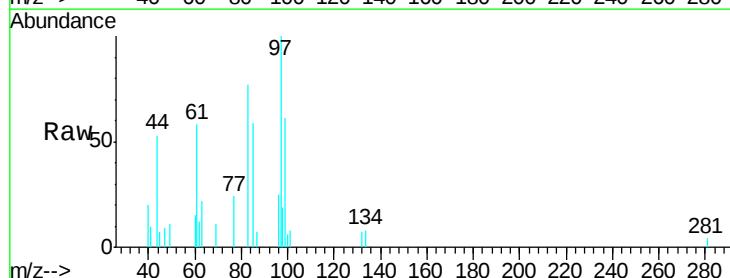
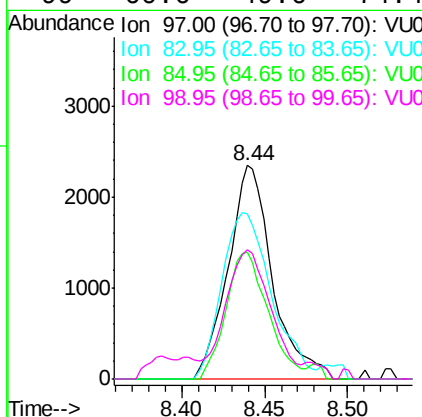
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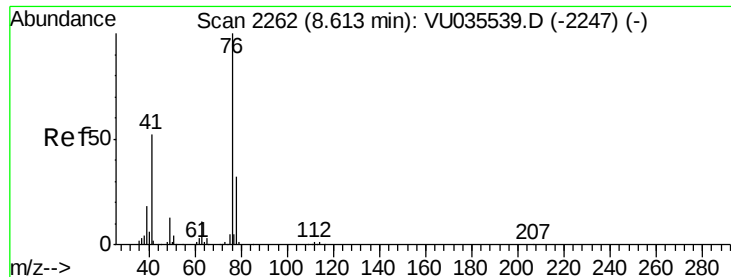
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#52
 1,1,2-Trichloroethane
 Concen: 0.284 ug/l
 RT: 8.44 min Scan# 2208
 Delta R.T. 0.00 min
 Lab File: VU035543.D
 Acq: 29 Oct 2019 17:32

Tgt Ion	Ratio	Lower	Upper
97	100		
83	77.1	72.6	108.8
85	59.1	46.4	69.6
99	60.6	49.6	74.4





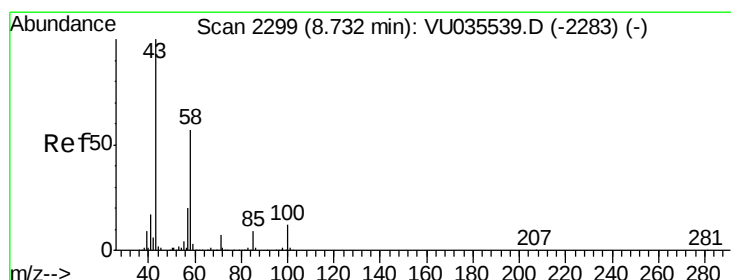
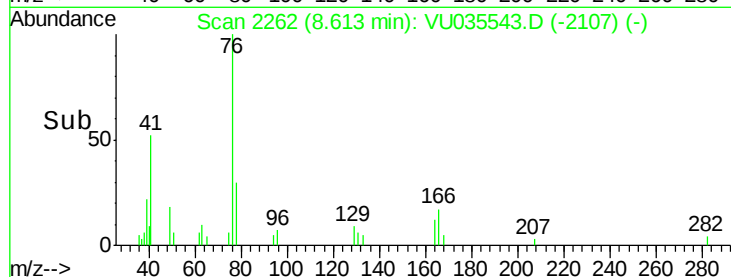
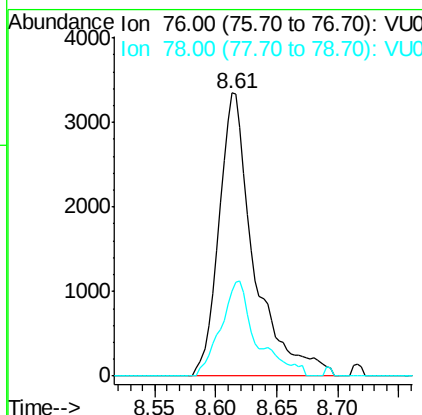
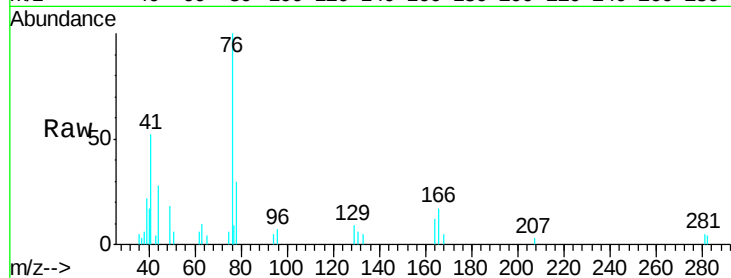
#53
 1,3-Dichloropropane
 Concen: 0.259 ug/l
 RT: 8.61 min Scan# 2262
 Delta R.T. -0.00 min
 Lab File: VU035543.D
 Acq: 29 Oct 2019 17:32

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 76 Resp: 6743
 Ion Ratio Lower Upper
 76 100
 78 34.1 25.6 38.4

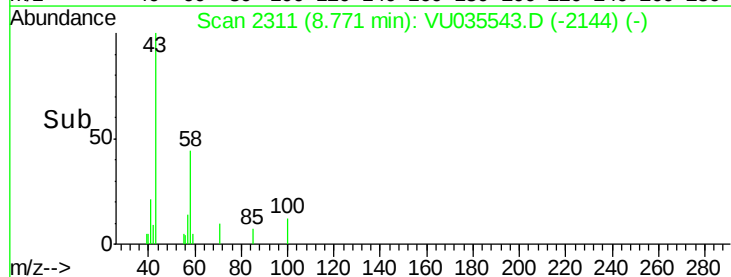
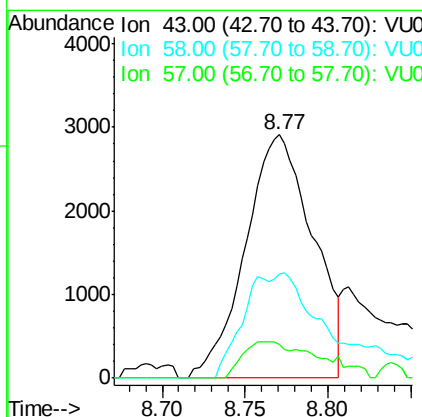
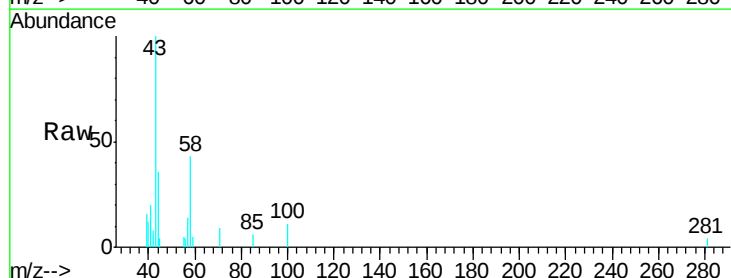
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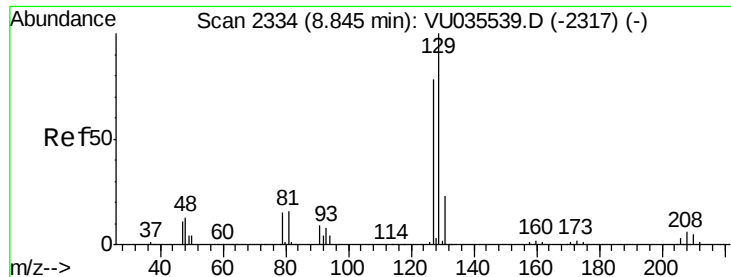
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#54
 2-Hexanone
 Concen: 0.993 ug/l
 RT: 8.77 min Scan# 2311
 Delta R.T. 0.04 min
 Lab File: VU035543.D
 Acq: 29 Oct 2019 17:32

Tgt Ion: 43 Resp: 8257
 Ion Ratio Lower Upper
 43 100
 58 17.7 37.2 77.2#
 57 9.6 0.0 39.1





#55

Dibromochloromethane

Concen: 0.269 ug/l

RT: 8.85 min Scan# 2335

Delta R.T. 0.00 min

Lab File: VU035543.D

Acq: 29 Oct 2019 17:32

Instrument :

MSVOA_U

ClientSampleId :

LOD-MDL-WATER-01-QT4-2019

Tgt Ion:129 Resp: 5051

Ion Ratio Lower Upper

129 100

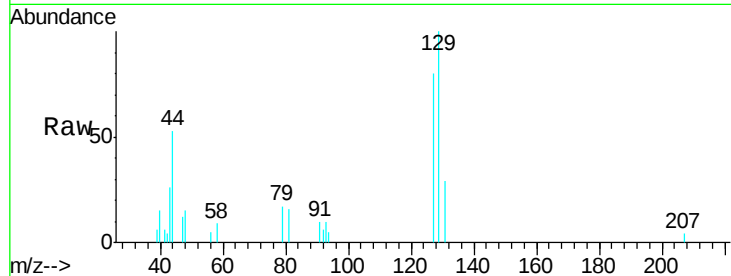
127 79.2 62.3 93.5

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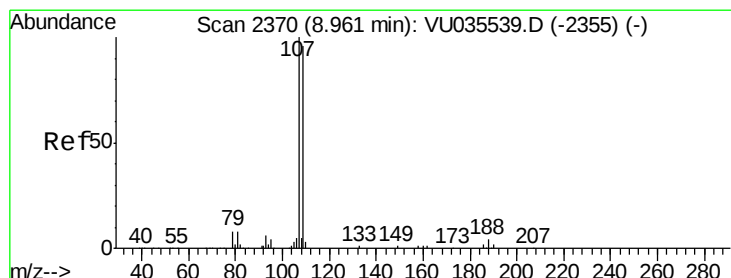
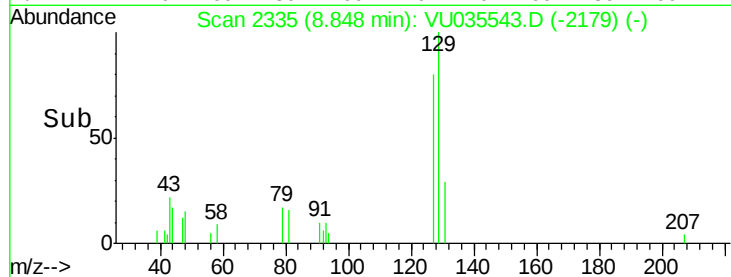
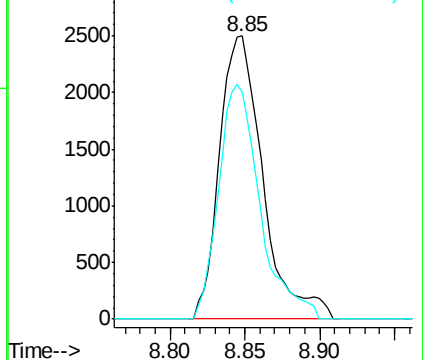
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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#56

1,2-Dibromoethane

Concen: 0.250 ug/l

RT: 8.96 min Scan# 2371

Delta R.T. 0.00 min

Lab File: VU035543.D

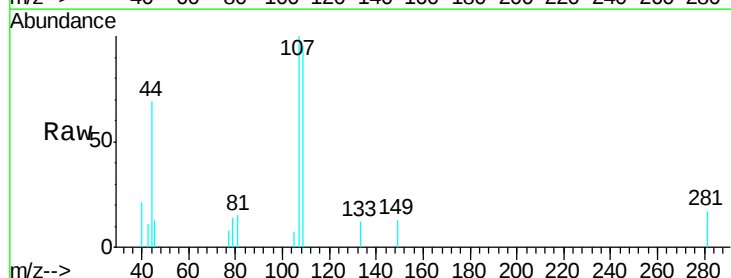
Acq: 29 Oct 2019 17:32

Tgt Ion:107 Resp: 3517

Ion Ratio Lower Upper

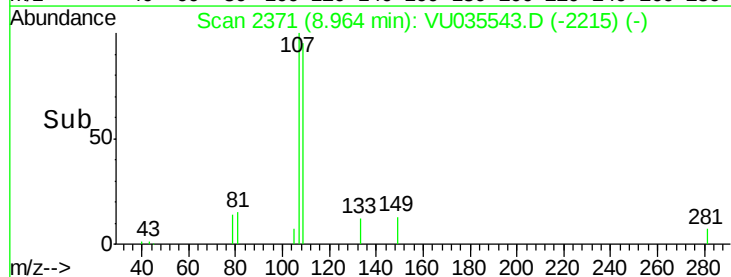
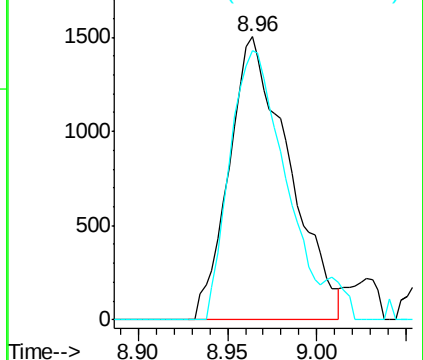
107 100

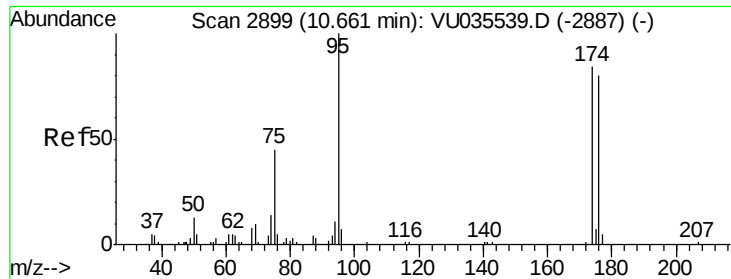
109 86.6 0.0 191.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





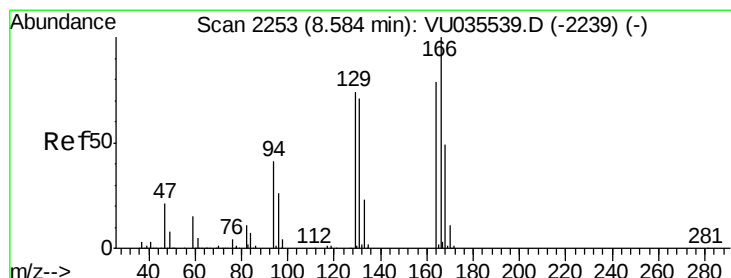
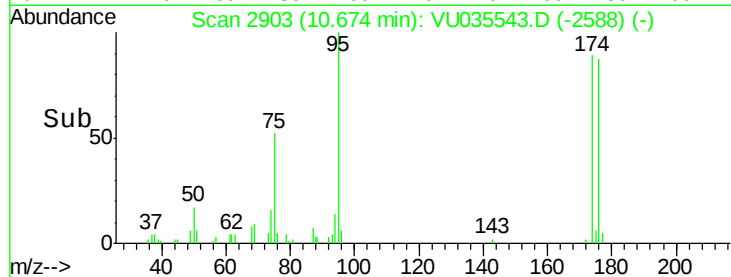
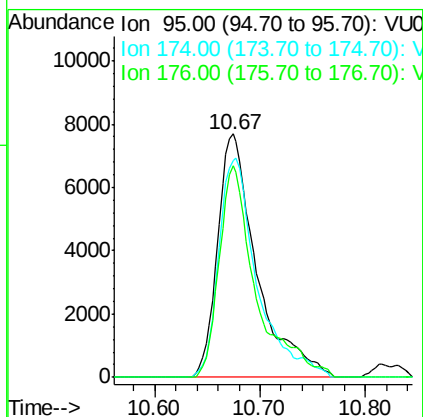
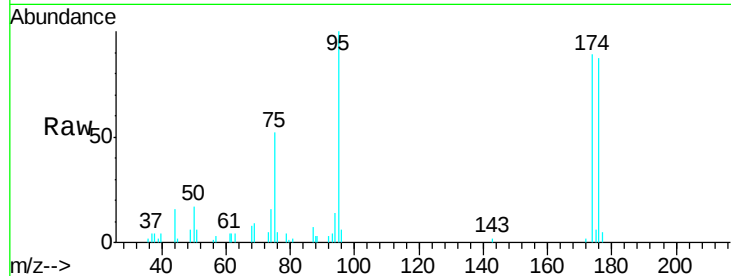
#57
4-Bromofluorobenzene
Concen: 0.844 ug/l
RT: 10.67 min Scan# 2903
Delta R.T. 0.01 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tgt Ion	Ratio	Lower	Upper
95	100		
174	88.3	70.2	105.4
176	81.4	67.7	101.5

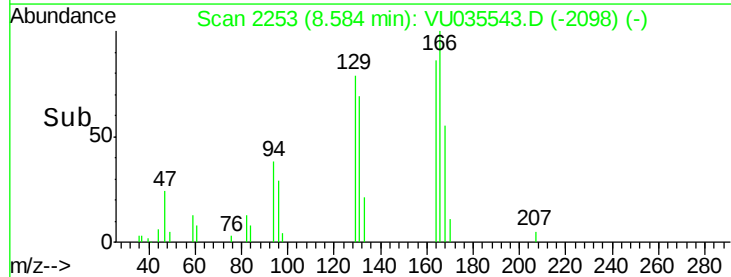
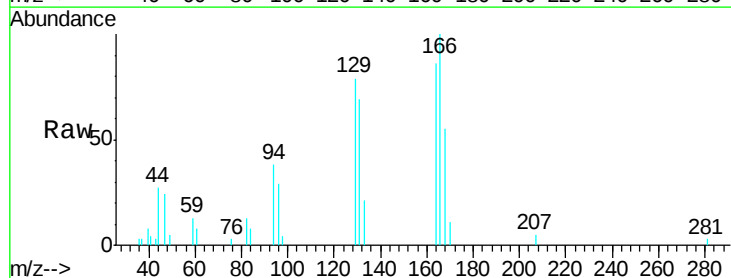
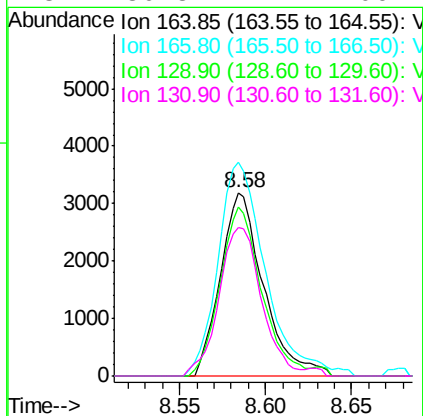
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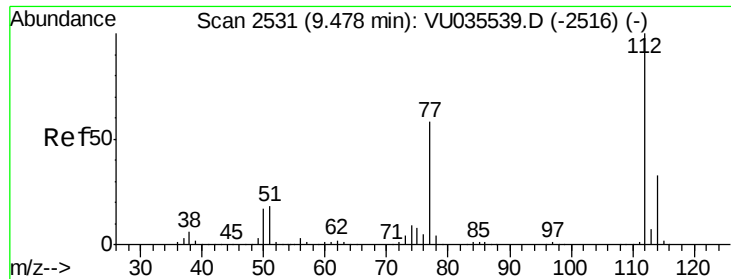
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#58
Tetrachloroethene
Concen: 0.272 ug/l
RT: 8.58 min Scan# 2253
Delta R.T. -0.00 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Tgt Ion	Ratio	Lower	Upper
164	100		
166	113.2	100.6	151.0
129	92.0	74.1	111.1
131	80.8	71.1	106.7





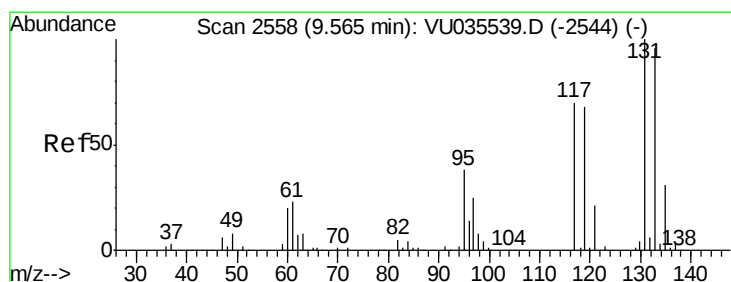
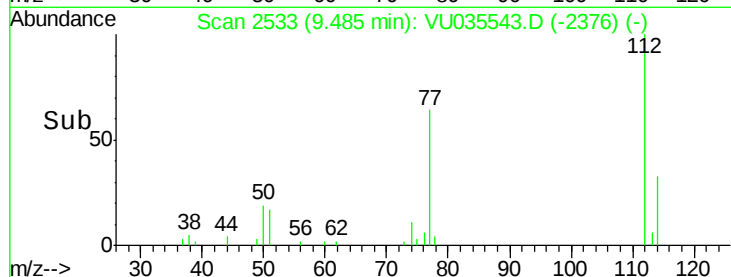
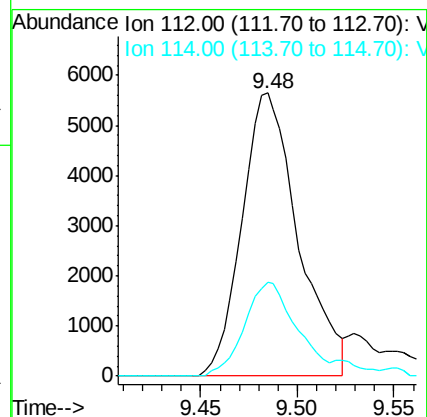
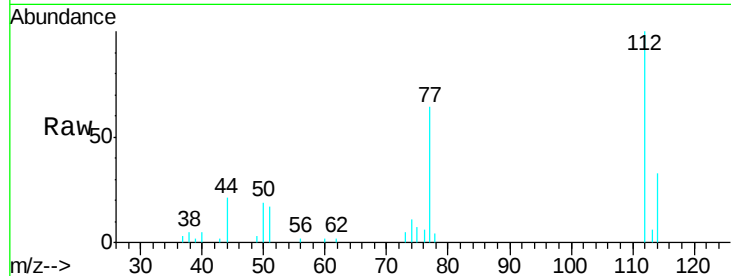
#59
Chlorobenzene
Concen: 0.215 ug/l
RT: 9.48 min Scan# 2533
Delta R.T. 0.01 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tgt Ion:112 Resp: 11441
Ion Ratio Lower Upper
112 100
114 33.3 26.5 39.7

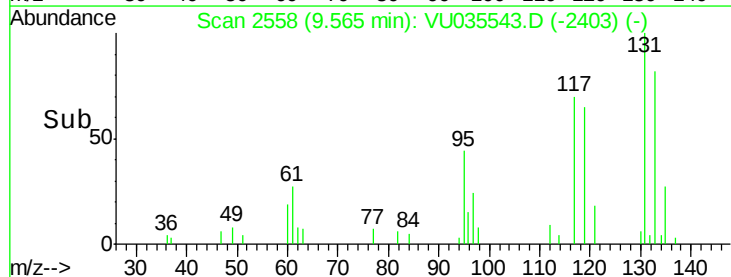
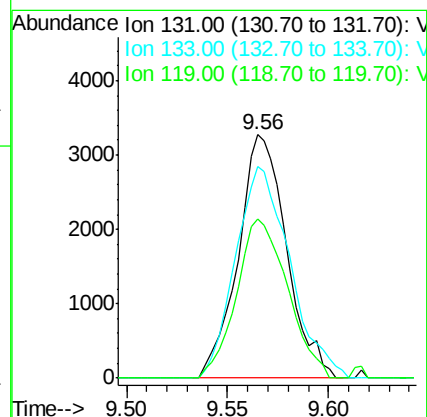
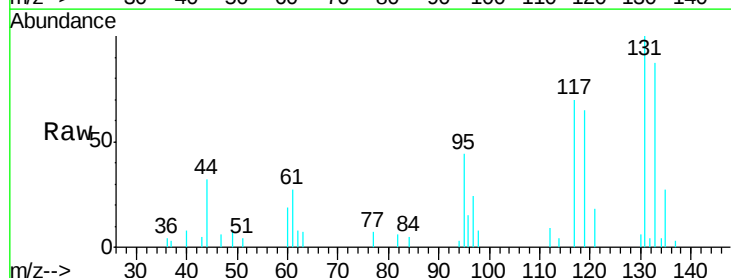
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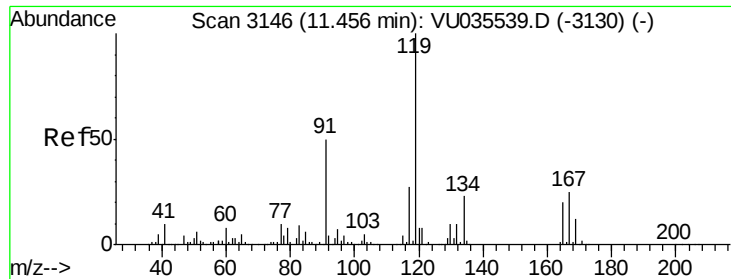
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#60
1,1,1,2-Tetrachloroethane
Concen: 0.268 ug/l
RT: 9.56 min Scan# 2558
Delta R.T. -0.00 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Tgt Ion:131 Resp: 5479
Ion Ratio Lower Upper
131 100
133 97.7 76.9 115.3
119 69.2 53.6 80.4





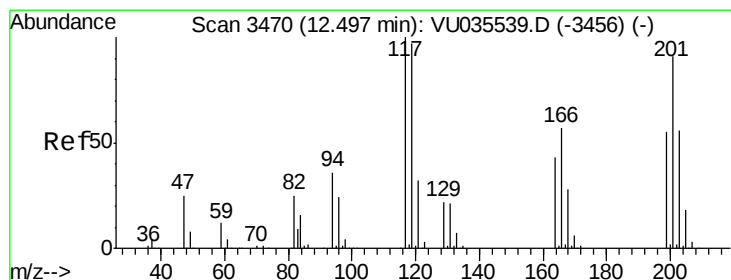
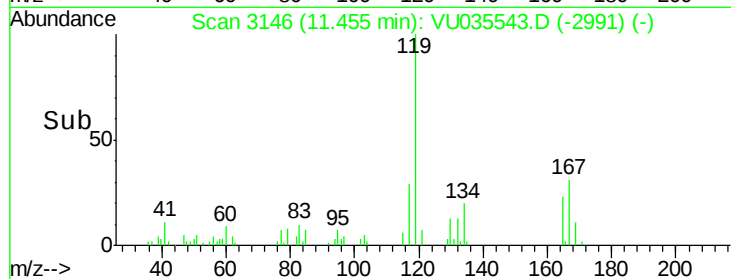
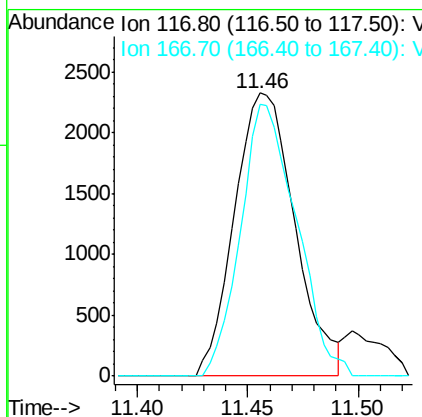
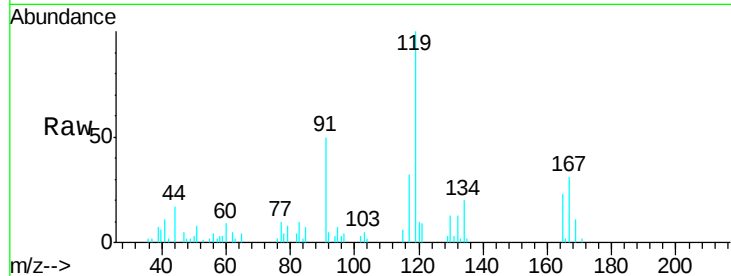
#61
 Pentachloroethane
 Concen: 0.266 ug/l
 RT: 11.46 min Scan# 3146
 Delta R.T. -0.00 min
 Lab File: VU035543.D
 Acq: 29 Oct 2019 17:32

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tgt Ion:117 Resp: 4422
 Ion Ratio Lower Upper
 117 100
 167 88.7 69.8 104.6

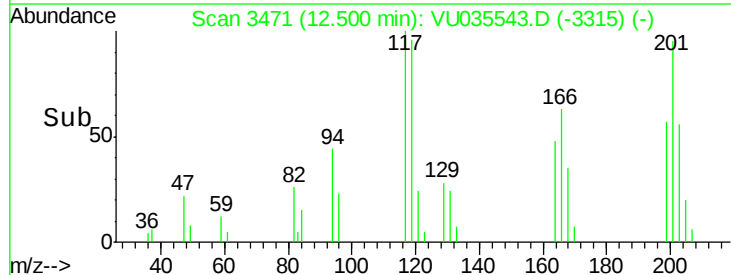
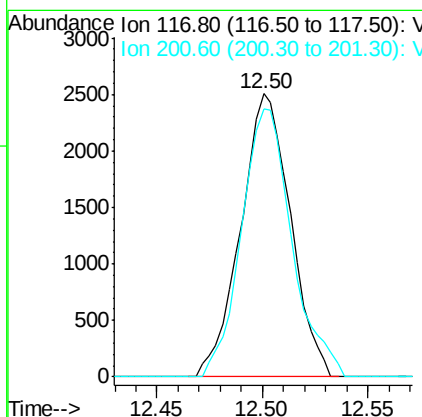
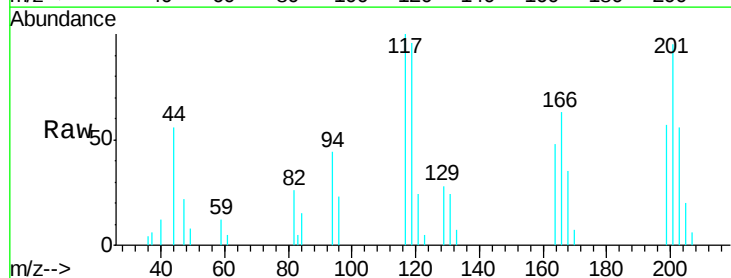
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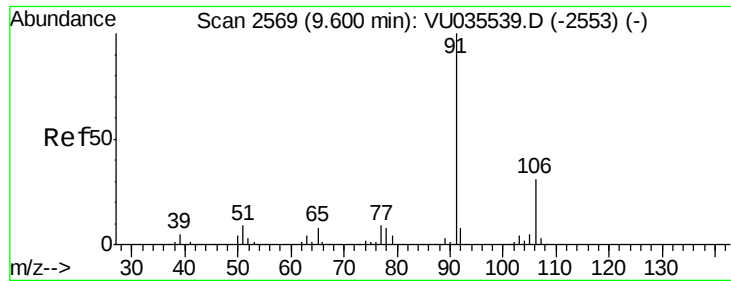
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#62
 Hexachloroethane
 Concen: 0.270 ug/l
 RT: 12.50 min Scan# 3471
 Delta R.T. 0.00 min
 Lab File: VU035543.D
 Acq: 29 Oct 2019 17:32

Tgt Ion:117 Resp: 4113
 Ion Ratio Lower Upper
 117 100
 201 96.0 71.8 107.8





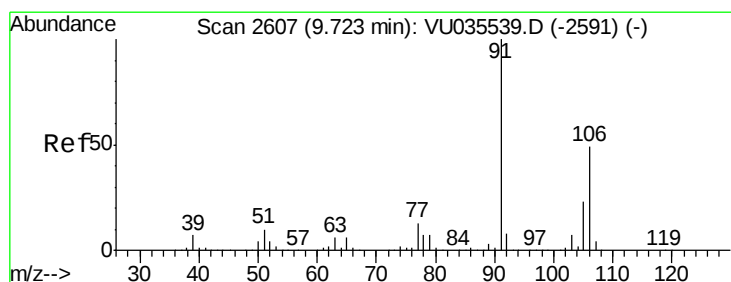
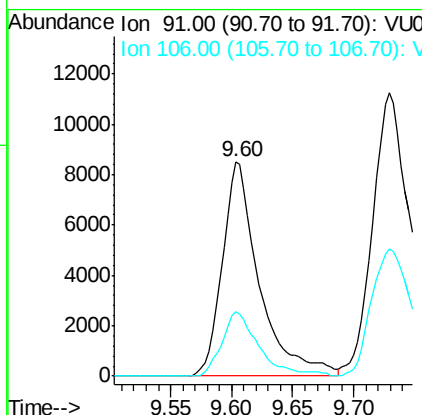
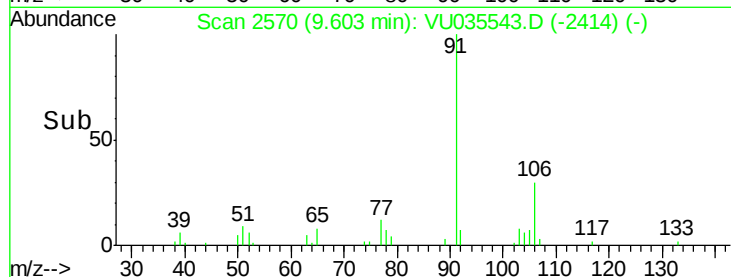
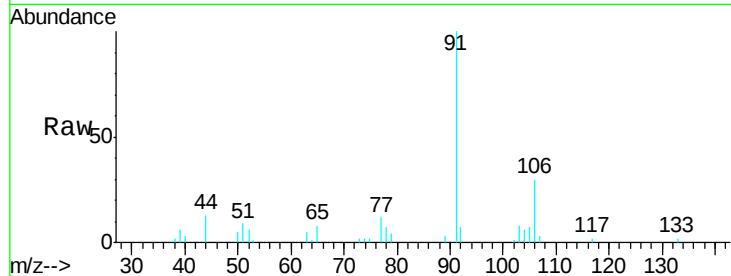
#63
Ethyl Benzene
Concen: 0.218 ug/l
RT: 9.60 min Scan# 2570
Delta R.T. 0.00 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tgt Ion: 91 Resp: 18016
Ion Ratio Lower Upper
91 100
106 30.1 25.2 37.8

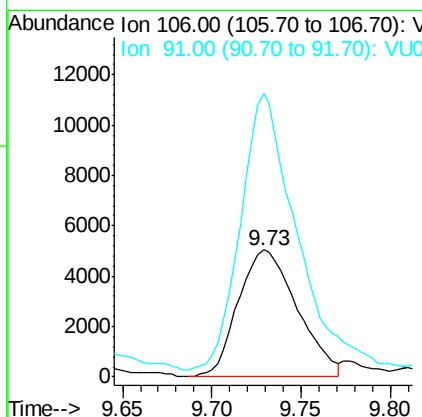
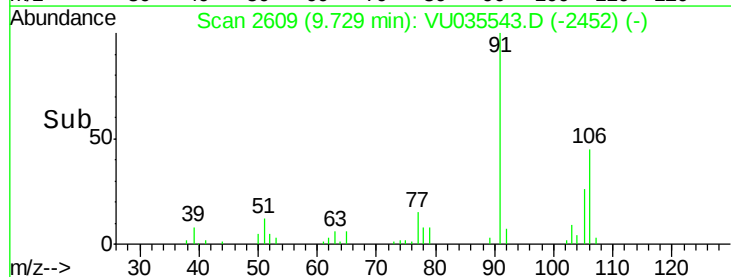
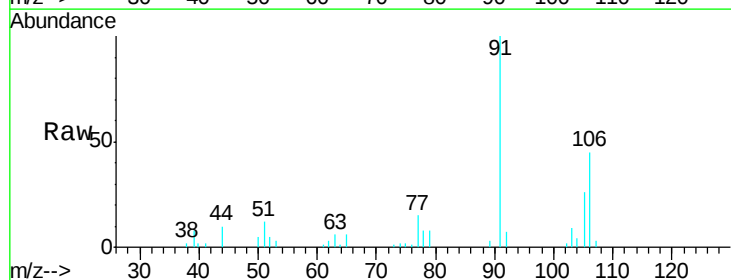
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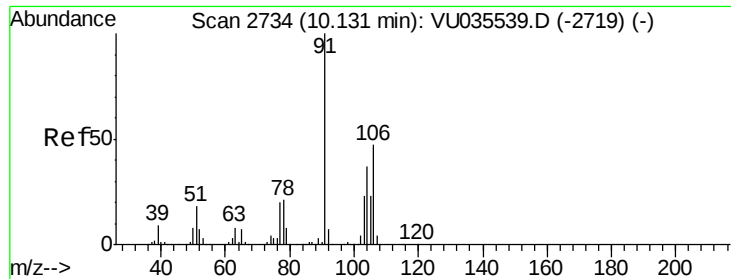
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#64
m/p-Xylenes
Concen: 0.358 ug/l
RT: 9.73 min Scan# 2609
Delta R.T. 0.01 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Tgt Ion: 106 Resp: 11680
Ion Ratio Lower Upper
106 100
91 209.9 81.0 121.4#





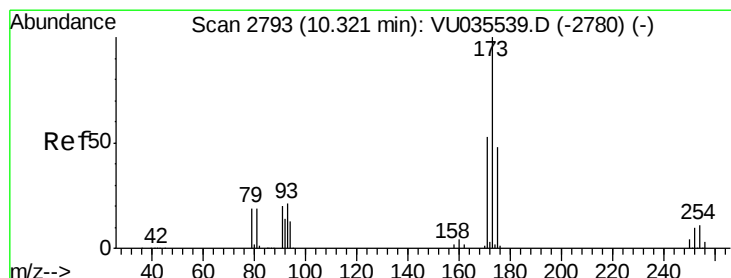
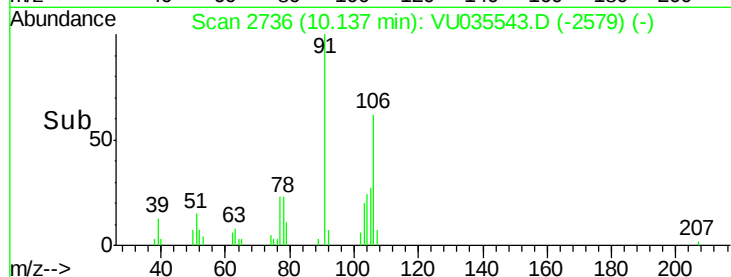
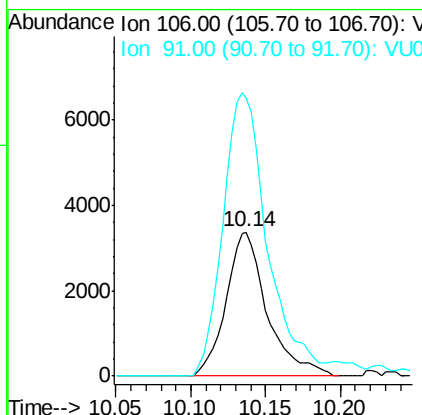
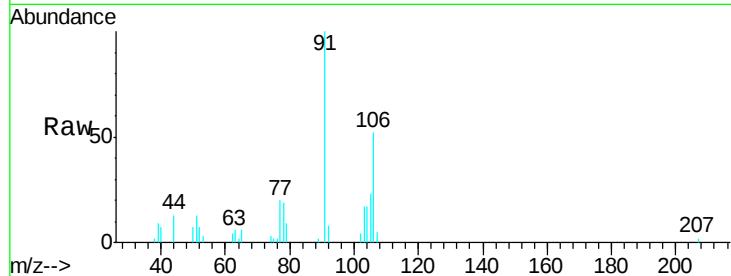
#65
o-Xylene
Concen: 0.205 ug/l
RT: 10.14 min Scan# 2736
Delta R.T. 0.01 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tgt Ion:106 Resp: 6439
Ion Ratio Lower Upper
106 100
91 212.7 107.1 321.1

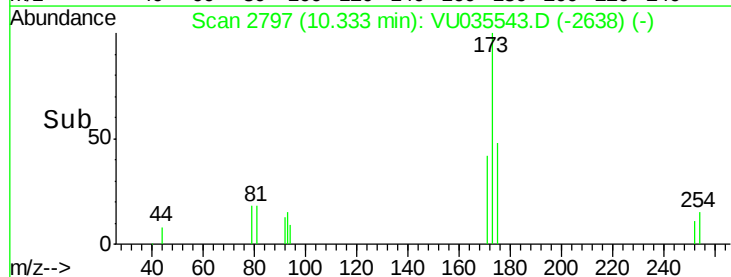
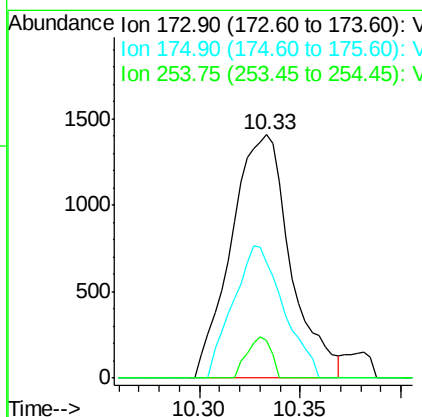
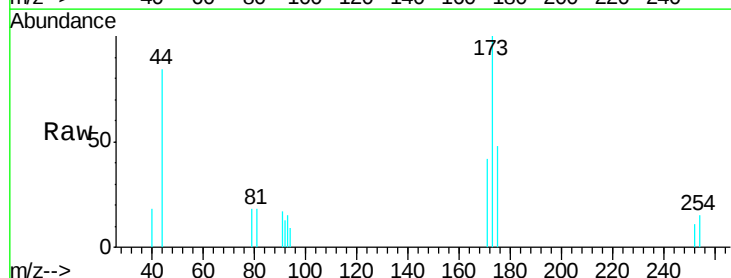
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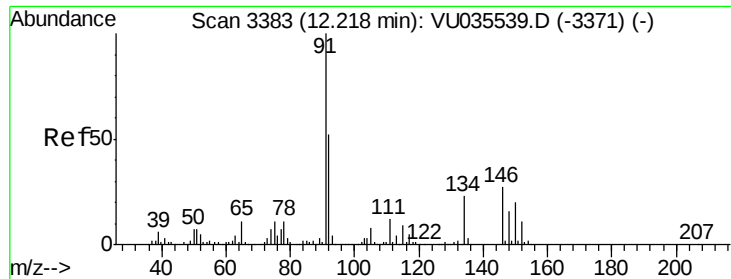
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#67
Bromoform
Concen: 0.248 ug/l
RT: 10.33 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Tgt Ion:173 Resp: 2890
Ion Ratio Lower Upper
173 100
175 46.2 38.7 58.1
254 6.9 8.2 12.2#





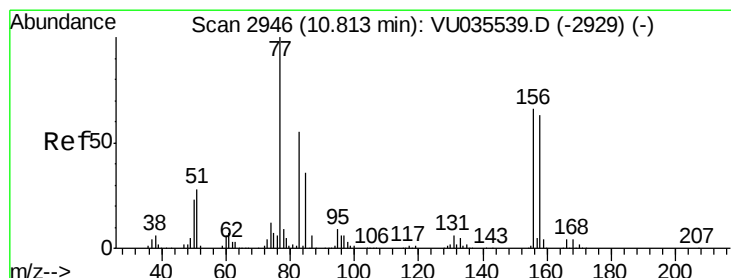
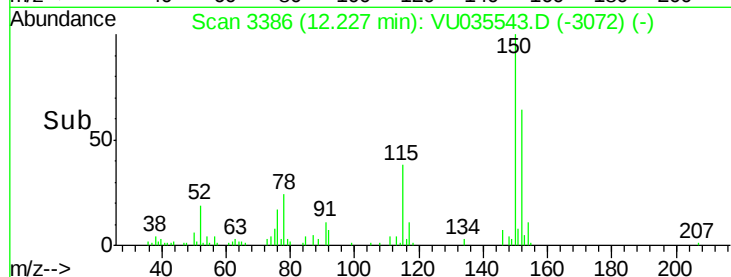
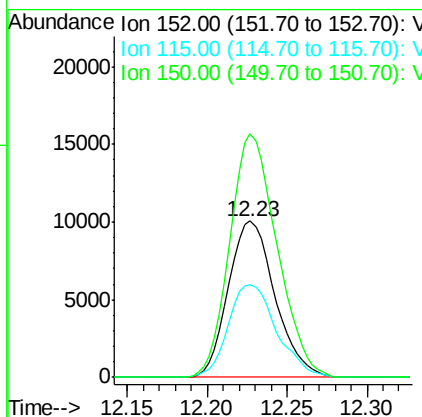
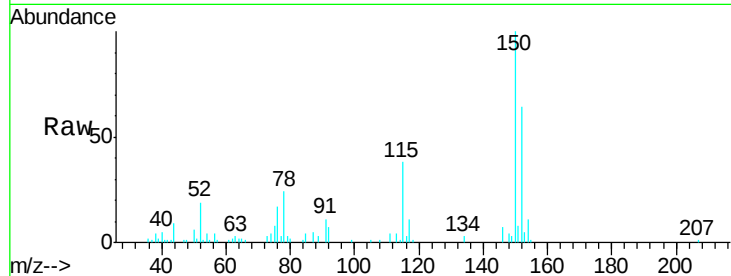
#68
 1,2-Dichlorobenzene-d4
 Concen: 0.802 ug/l
 RT: 12.23 min Scan# 3386
 Delta R.T. 0.01 min
 Lab File: VU035543.D
 Acq: 29 Oct 2019 17:32

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tgt Ion	Ratio	Resp	Lower	Upper
152	100	20038		
115	61.6	0.0	250.6	
150	157.5	0.0	656.8	

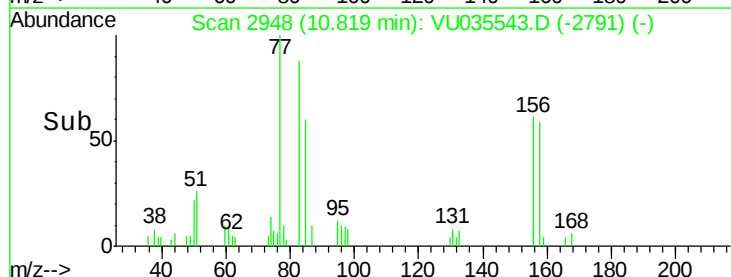
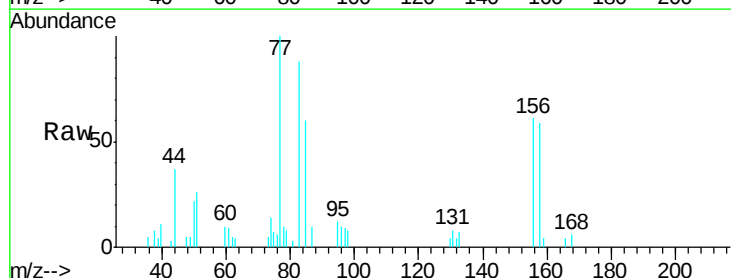
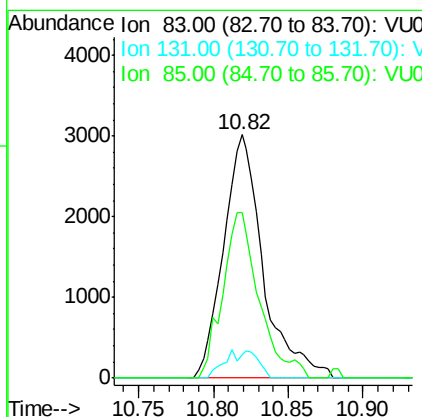
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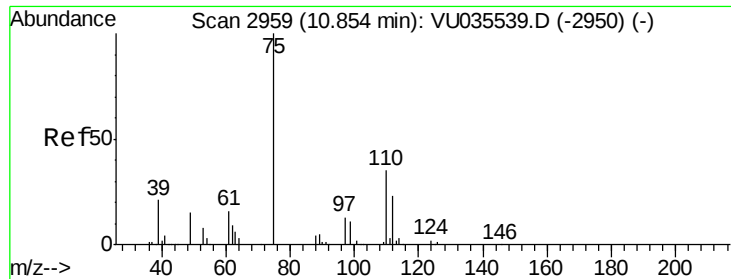
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#70
 1,1,2,2-Tetrachloroethane
 Concen: 0.271 ug/l
 RT: 10.82 min Scan# 2948
 Delta R.T. 0.01 min
 Lab File: VU035543.D
 Acq: 29 Oct 2019 17:32

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	5562		
131	4.1	0.0	0.0#	
85	62.5	33.5	50.3#	





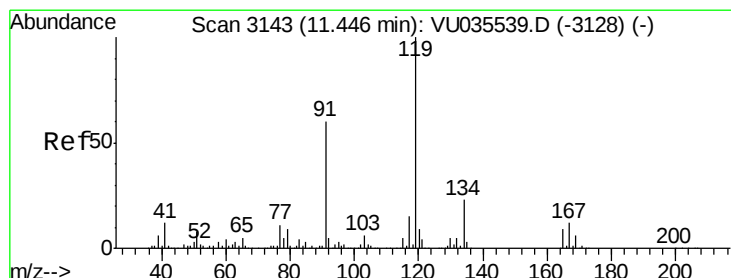
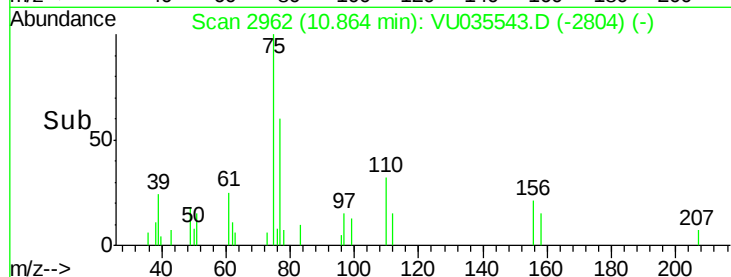
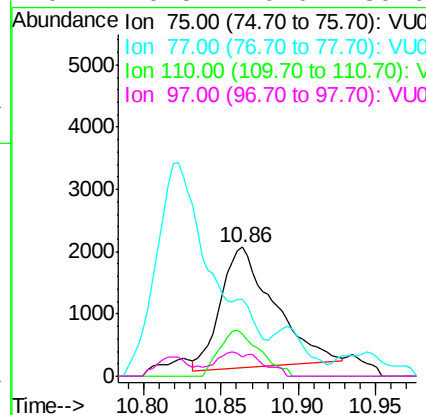
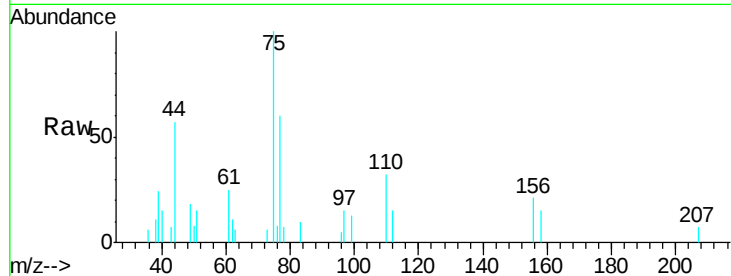
#71
1,2,3-Trichloropropane
Concen: 0.305 ug/l
RT: 10.86 min Scan# 2962
Delta R.T. 0.01 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tgt Ion:	75	Resp:	4696
Ion	Ratio	Lower	Upper
75	100		
77	14.2	0.0	68.6
110	28.3	0.0	77.2
97	16.8	0.0	39.0

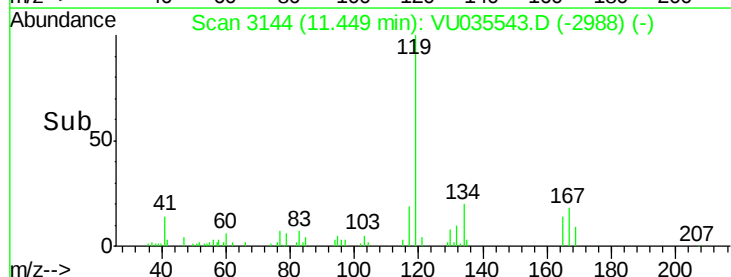
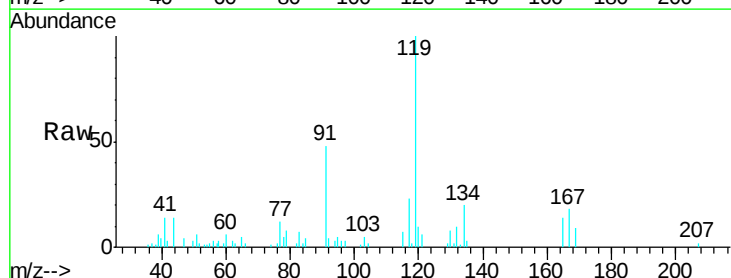
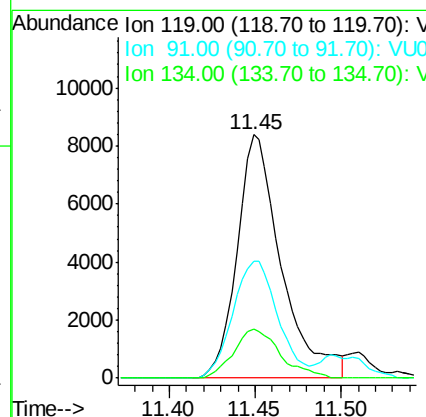
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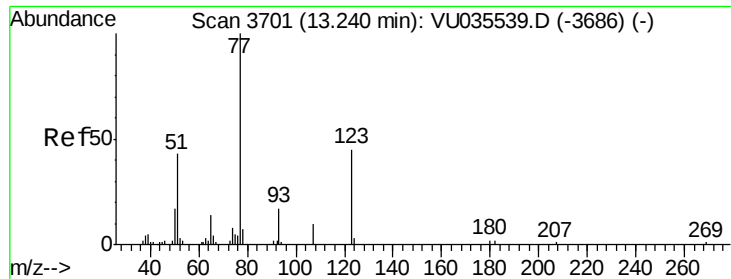
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#77
tert-Butylbenzene
Concen: 0.216 ug/l
RT: 11.45 min Scan# 3144
Delta R.T. 0.00 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Tgt Ion:	119	Resp:	15005
Ion	Ratio	Lower	Upper
119	100		
91	49.0	27.9	83.7
134	21.2	18.3	27.5





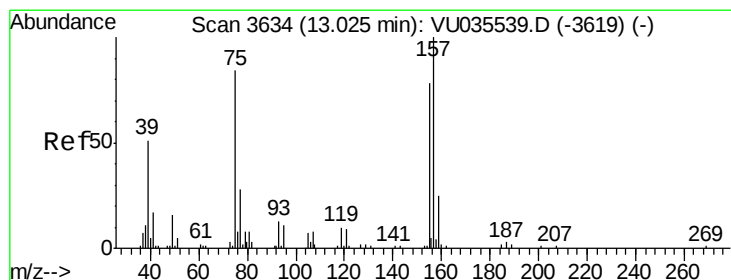
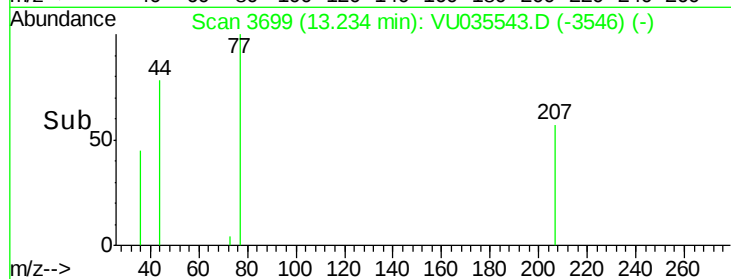
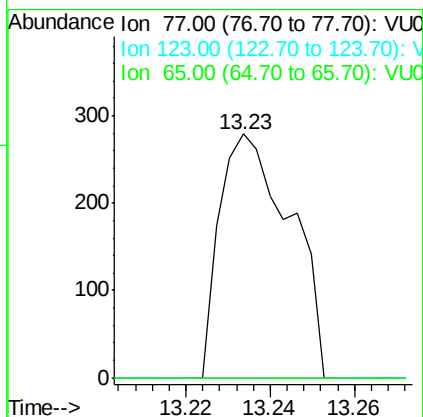
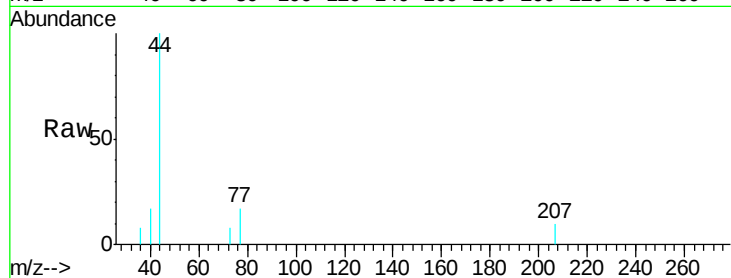
#80
Nitrobenzene
Concen: 0.474 ug/l
RT: 13.23 min Scan# 3699
Delta R.T. -0.01 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Instrument :
MSVOA_U
ClientSampleId :
LOD-MDL-WATER-01-QT4-2019

Tgt Ion	Ratio	Lower	Upper
77	100		
123	0.0	18.9	67.1#
65	0.0	11.2	14.2#

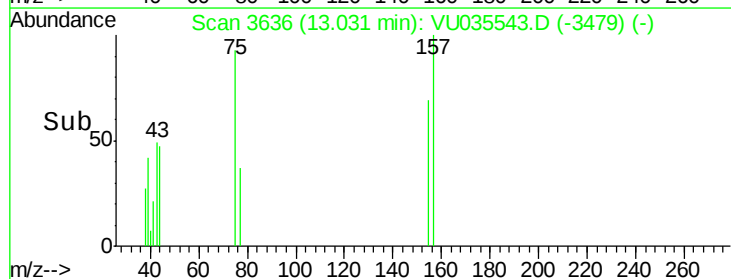
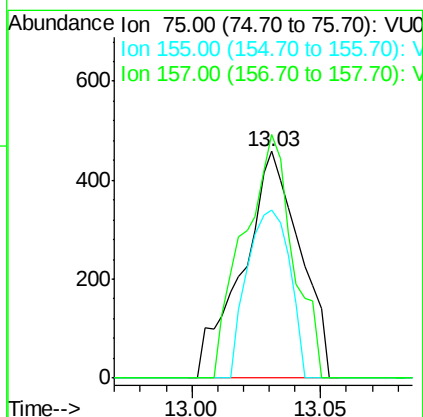
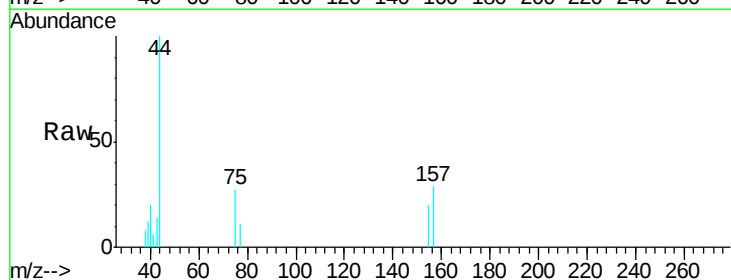
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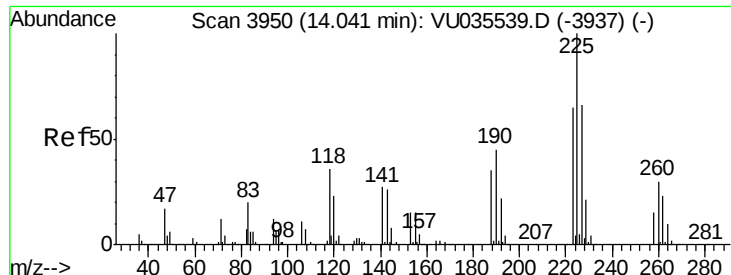
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#86
1,2-Dibromo-3-Chloropropane
Concen: 0.273 ug/l
RT: 13.03 min Scan# 3636
Delta R.T. 0.01 min
Lab File: VU035543.D
Acq: 29 Oct 2019 17:32

Tgt Ion	Ratio	Lower	Upper
75	100		
155	55.1	71.3	106.9#
157	92.3	91.2	136.8





#88
 Hexachlorobutadiene
 Concen: 0.221 ug/l
 RT: 14.04 min Scan# 3950
 Delta R.T. -0.00 min
 Lab File: VU035543.D
 Acq: 29 Oct 2019 17:32

Instrument :
 MSVOA_U
 ClientSampleId :
 LOD-MDL-WATER-01-QT4-2019

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.2	50.7	76.1
227	65.8	52.2	78.4

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