

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072319\
 Data File : VX011050.D
 Acq On : 23 Jul 2019 11:19
 Operator : JC/SP
 Sample : K3591-09 2.5PPB MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019 DL

Manual Integrations
 APPROVED

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 7/25/2019 3:06:51 PM

Quant Time: Jul 24 05:42:10 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:29:44 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	210466	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	321091	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	285696	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	141778	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	112261	50.14	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	100.28%	
35) Dibromofluoromethane	5.50	113	99860	49.00	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	98.00%	
50) Toluene-d8	8.71	98	370211	48.43	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	96.86%	
62) 4-Bromofluorobenzene	11.13	95	130976	46.62	ug/l	0.00
Spiked Amount				50.000		
			Recovery	=	93.24%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	3015	1.534	ug/l	95
3) Chloromethane	1.32	50	4078	2.107	ug/l	90
4) Vinyl Chloride	1.41	62	4117	2.085	ug/l	91
5) Bromomethane	1.64	94	3570	3.209	ug/l	93
6) Chloroethane	1.73	64	4528	3.609	ug/l	94
7) Trichlorofluoromethane	1.93	101	7950	2.379	ug/l	91
8) Diethyl Ether	2.19	74	3069	2.666	ug/l	83
9) 1,1,2-Trichlorotrifluoroet	2.38	101	4977	2.608	ug/l	96
10) Methyl Iodide	2.51	142	4629	1.849	ug/l	97
11) Tert butyl alcohol	3.03	59	13101	25.124	ug/l	95
12) 1,1-Dichloroethene	2.37	96	4507	2.404	ug/l	93
13) Acrolein	2.29	56	3813	12.656	ug/l	96
14) Allyl chloride	2.72	41	6240	2.292	ug/l	97
15) Acrylonitrile	3.14	53	14648	13.902	ug/l	97
16) Acetone	2.45	43	13644	13.492	ug/l	96
17) Carbon Disulfide	2.57	76	9559	1.988	ug/l	98
18) Methyl Acetate	2.78	43	8834	3.836	ug/l	98
19) Methyl tert-butyl Ether	3.20	73	15938	2.641	ug/l	97
20) Methylene Chloride	2.86	84	5862	2.735	ug/l	93
21) trans-1,2-Dichloroethene	3.17	96	4738	2.382	ug/l	93
22) Diisopropyl ether	3.86	45	14797	2.576	ug/l	94
23) Vinyl Acetate	3.82	43	51910	10.668	ug/l	100
24) 1,1-Dichloroethane	3.70	63	8975	2.691	ug/l	100
25) 2-Butanone	4.68	43	19246	13.258	ug/l	98
26) 2,2-Dichloropropane	4.59	77	6879	2.512	ug/l	95
27) cis-1,2-Dichloroethene	4.60	96	5954	2.586	ug/l	92
28) Bromochloromethane	5.01	49	4284	2.726	ug/l	97
29) Tetrahydrofuran	5.14	42	12283	13.358	ug/l	99
30) Chloroform	5.21	83	9895	2.745	ug/l	88
31) Cyclohexane	5.58	56	7154	2.353	ug/l #	84
32) 1,1,1-Trichloroethane	5.49	97	7768	2.491	ug/l	99
36) 1,1-Dichloropropene	5.79	75	6687	2.535	ug/l	94
37) Ethyl Acetate	4.84	43	7383	2.734	ug/l #	94
38) Carbon Tetrachloride	5.79	117	6370	2.318	ug/l #	89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	7905	2.311	ug/l	94
40) Benzene	6.14	78	20757	2.569	ug/l	99
41) Methacrylonitrile	5.04	41	3851	2.512	ug/l #	89
42) 1,2-Dichloroethane	6.19	62	7844	2.792	ug/l	100
43) Isopropyl Acetate	6.45	43	11397	2.566	ug/l	97
44) Trichloroethene	7.21	130	6138	2.567	ug/l	99
45) 1,2-Dichloropropane	7.51	63	5156	2.507	ug/l #	87
46) Dibromomethane	7.66	93	3965	2.698	ug/l	95
47) Bromodichloromethane	7.90	83	6641	2.539	ug/l #	91
48) Methyl methacrylate	7.77	41	5057	2.338	ug/l #	93
49) 1,4-Dioxane	7.74	88	3301	54.550	ug/l #	88
51) 4-Methyl-2-Pentanone	8.64	43	37565	13.049	ug/l	98
52) Toluene	8.79	92	13351	2.516	ug/l	100
53) t-1,3-Dichloropropene	9.04	75	5842	2.077	ug/l #	82
54) cis-1,3-Dichloropropene	8.43	75	7138	2.281	ug/l	97
55) 1,1,2-Trichloroethane	9.21	97	5562	2.545	ug/l	97
56) Ethyl methacrylate	9.18	69	8017	2.508	ug/l	96
57) 1,3-Dichloropropane	9.37	76	8787	2.535	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.31	63	18036	11.820	ug/l	99
59) 2-Hexanone	9.49	43	27951	12.519	ug/l	99
60) Dibromochloromethane	9.58	129	4777	2.159	ug/l	97
61) 1,2-Dibromoethane	9.67	107	5761	2.484	ug/l	96
64) Tetrachloroethene	9.34	164	6119	2.723	ug/l	96
65) Chlorobenzene	10.13	112	14958	2.549	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.22	131	5205	2.524	ug/l	96
67) Ethyl Benzene	10.25	91	25336	2.537	ug/l	100
68) m/p-Xylenes	10.36	106	19190	5.009	ug/l	100
69) o-Xylene	10.69	106	9580	2.562	ug/l	100
70) Styrene	10.71	104	14750	2.366	ug/l	96
71) Bromoform	10.85	173	3399	2.066	ug/l #	97
73) Isopropylbenzene	11.02	105	25092	2.619	ug/l	98
74) N-amyl acetate	10.90	43	8929	2.439	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.27	83	8371	2.670	ug/l	98
76) 1,2,3-Trichloropropane	11.29	75	6911m	2.701	ug/l	
77) Bromobenzene	11.26	156	7032	2.661	ug/l	98
78) n-propylbenzene	11.36	91	26989	2.550	ug/l	99
79) 2-Chlorotoluene	11.42	91	16877	2.654	ug/l	98
80) 1,3,5-Trimethylbenzene	11.51	105	20064	2.506	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.07	75	1779m	1.913	ug/l	
82) 4-Chlorotoluene	11.51	91	19008	2.568	ug/l	100
83) tert-Butylbenzene	11.77	119	20142	2.562	ug/l	97
84) 1,2,4-Trimethylbenzene	11.80	105	19927	2.470	ug/l	97
85) sec-Butylbenzene	11.94	105	24268	2.634	ug/l	99
86) p-Isopropyltoluene	12.06	119	21422	2.515	ug/l	97
87) 1,3-Dichlorobenzene	12.02	146	12394	2.703	ug/l	96
88) 1,4-Dichlorobenzene	12.10	146	12313	2.618	ug/l	86
89) n-Butylbenzene	12.38	91	17441	2.393	ug/l	99
90) Hexachloroethane	12.59	117	2560	1.906	ug/l	92
91) 1,2-Dichlorobenzene	12.39	146	11653	2.564	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	12.99	75	1563	2.385	ug/l	94

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MDL-MDL-WATER-03-QT3-2019 DL

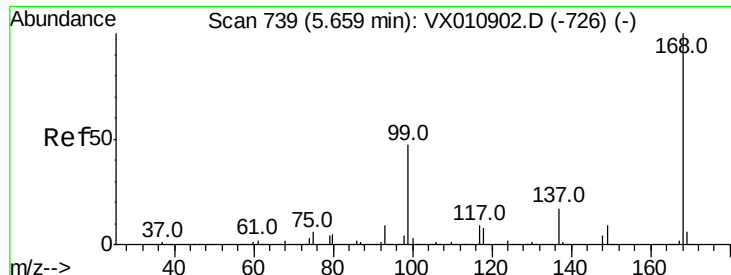
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	7590	2.464	ug/l	97
94) Hexachlorobutadiene	13.78	225	4230	2.771	ug/l	92
95) Naphthalene	13.83	128	21527	2.367	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	7732	2.523	ug/l	96

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:168 Resp: 210466

Ion Ratio Lower Upper

168 100

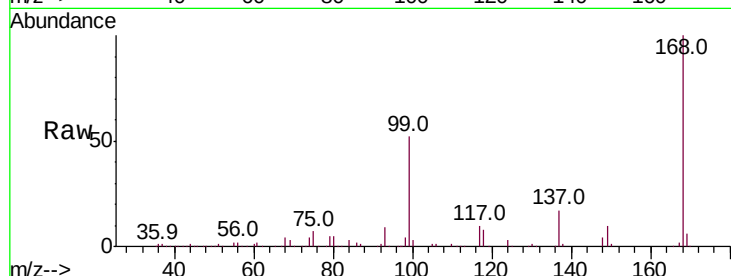
99 52.3 37.6 56.4

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

80000

60000

40000

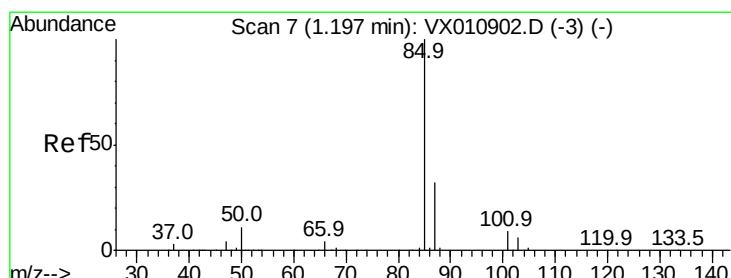
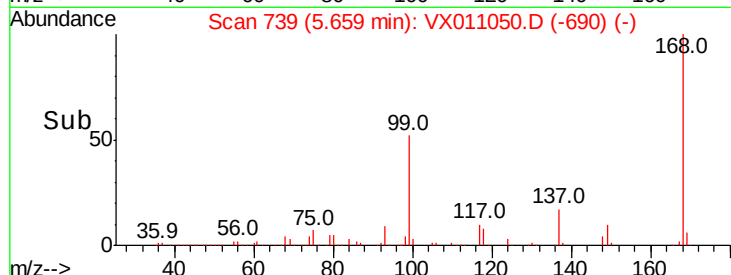
20000

0

5.50 5.60 5.70 5.80

5.66

Time-->



#2

Dichlorodifluoromethane

Concen: 1.534 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX011050.D

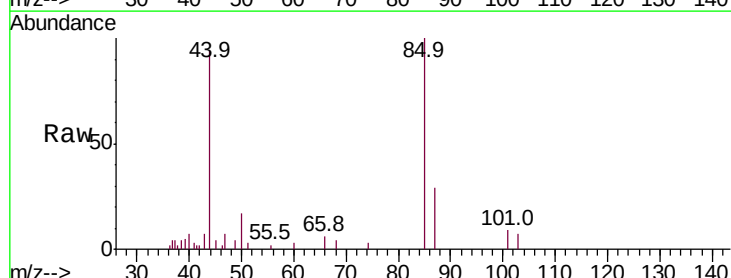
Acq: 23 Jul 2019 11:19

Tgt Ion: 85 Resp: 3015

Ion Ratio Lower Upper

85 100

87 28.9 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

3000

2500

2000

1500

1000

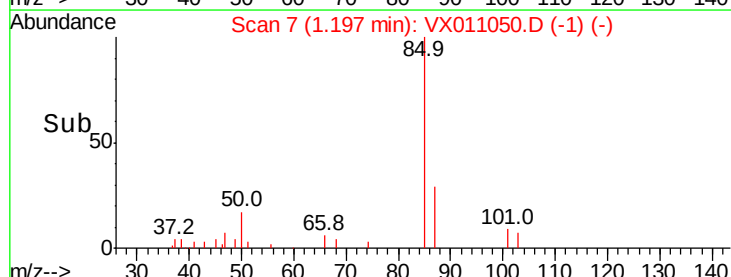
500

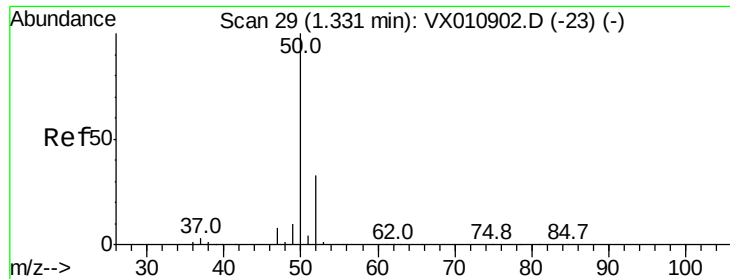
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1.15 1.20 1.25

1.20

Time-->





#3

Chloromethane

Concen: 2.107 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 50 Resp: 4078

Ion Ratio Lower Upper

50 100

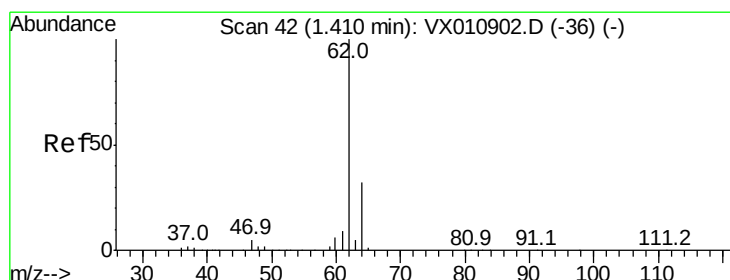
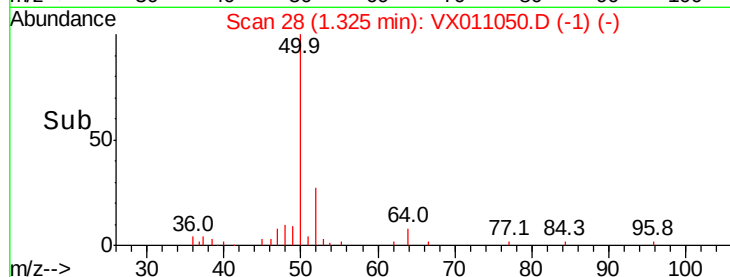
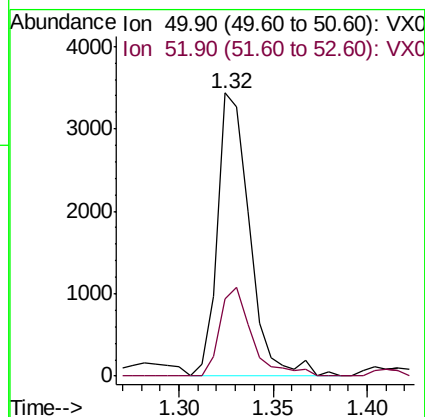
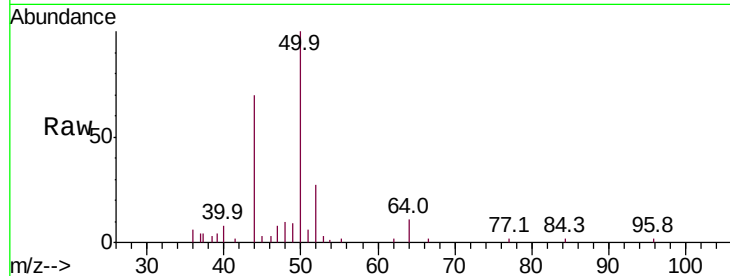
52 27.5 26.4 39.6

Manual Integrations

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#4

Vinyl Chloride

Concen: 2.085 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX011050.D

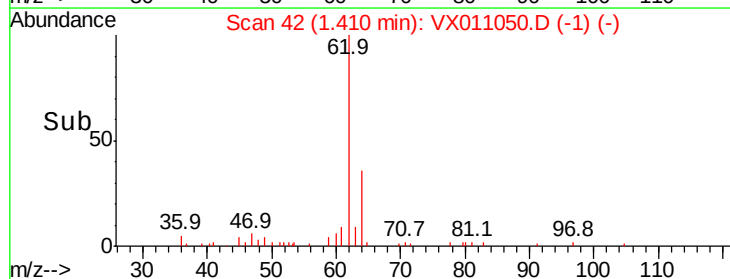
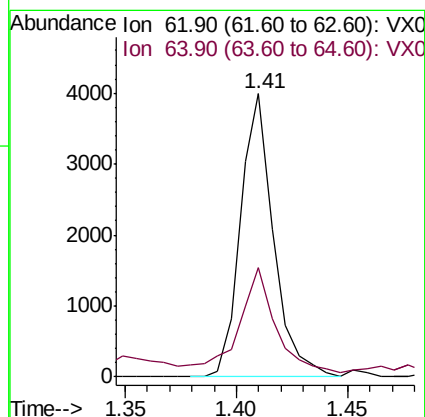
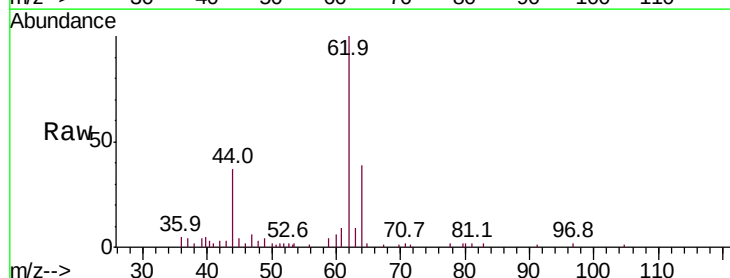
Acq: 23 Jul 2019 11:19

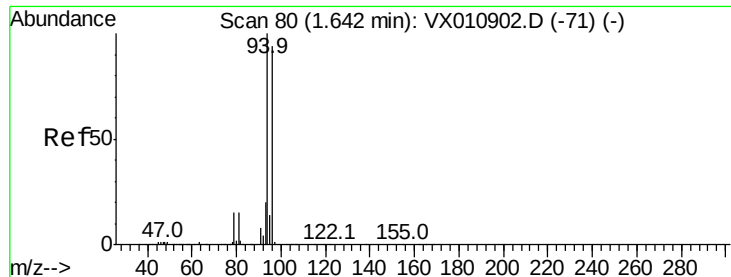
Tgt Ion: 62 Resp: 4117

Ion Ratio Lower Upper

62 100

64 37.0 25.7 38.5





#5

Bromomethane

Concen: 3.209 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 94 Resp: 3570

Ion Ratio Lower Upper

94 100

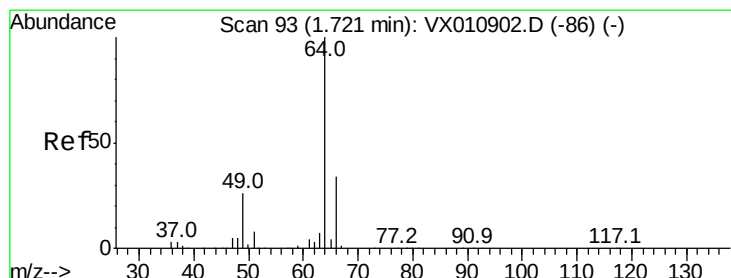
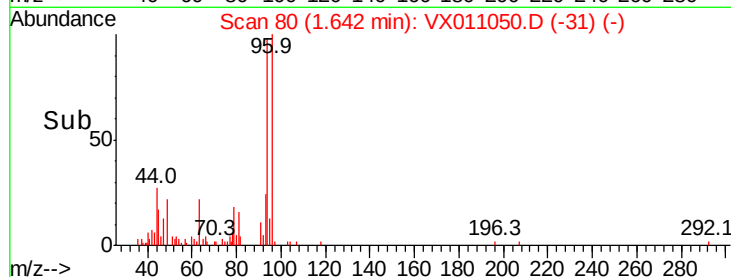
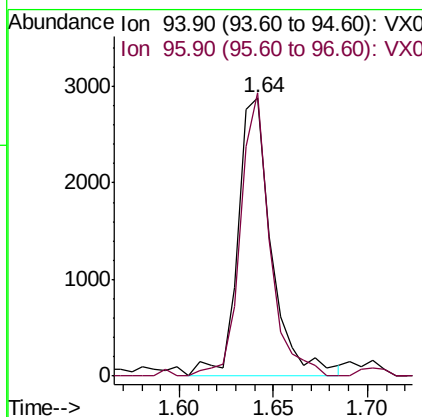
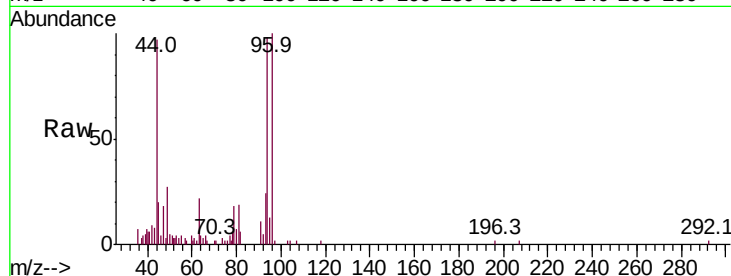
96 101.5 75.6 113.4

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#6

Chloroethane

Concen: 3.609 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX011050.D

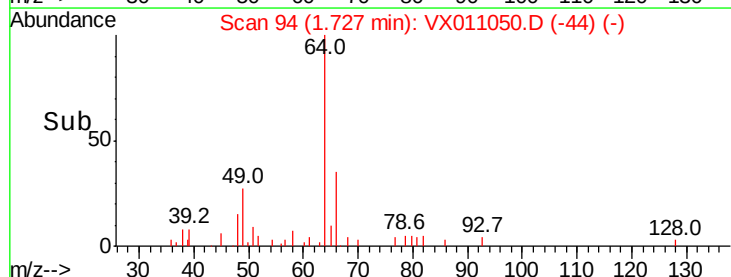
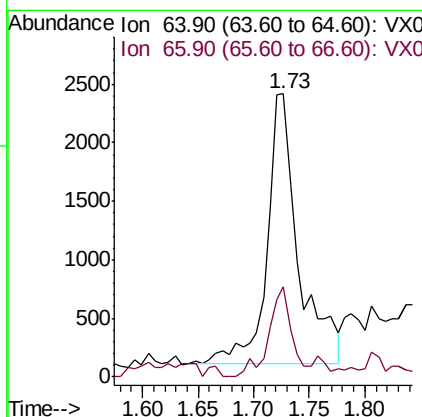
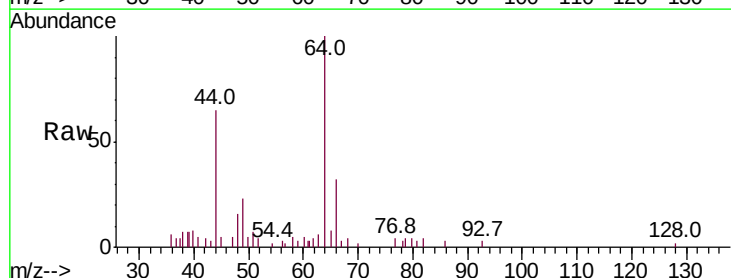
Acq: 23 Jul 2019 11:19

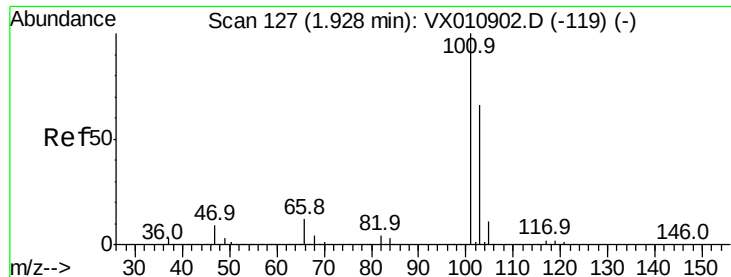
Tgt Ion: 64 Resp: 4528

Ion Ratio Lower Upper

64 100

66 30.4 27.0 40.6





#7

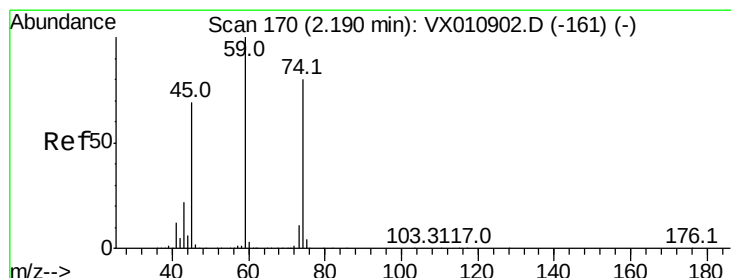
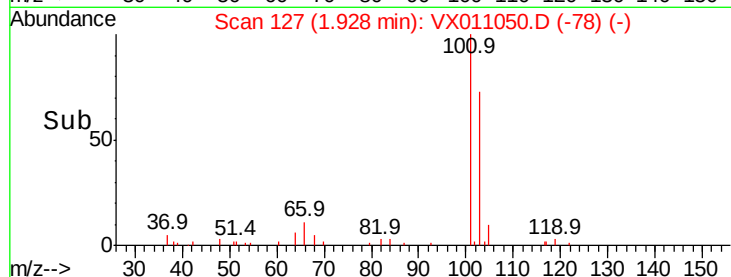
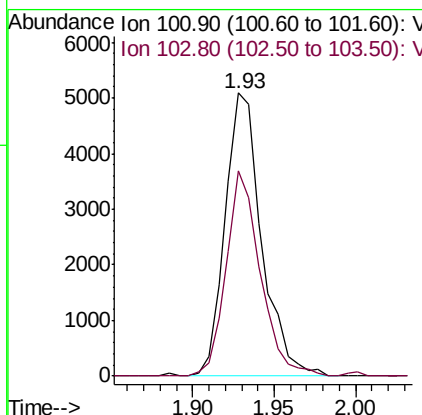
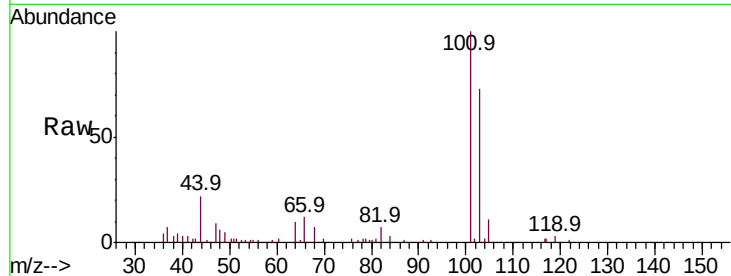
Trichlorofluoromethane
Concen: 2.379 ug/l
RT: 1.93 min Scan# 127
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Instrument :
MSVOA_X
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MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:101 Resp: 7950
Ion Ratio Lower Upper
101 100
103 72.7 52.6 78.8

Manual Integrations
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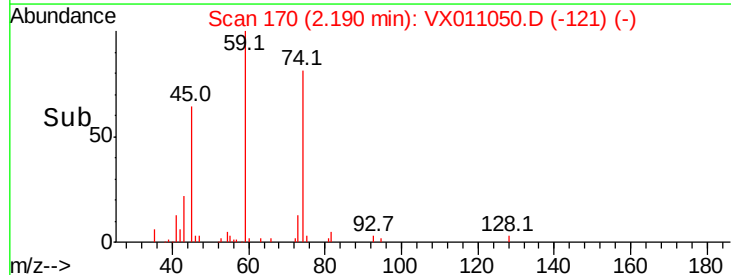
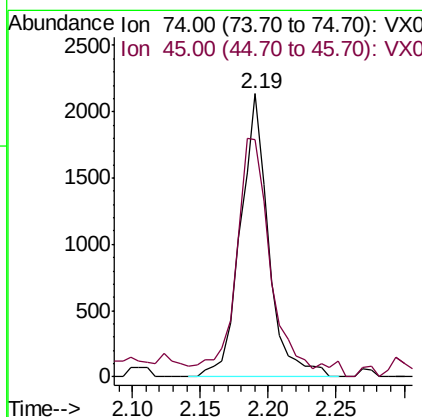
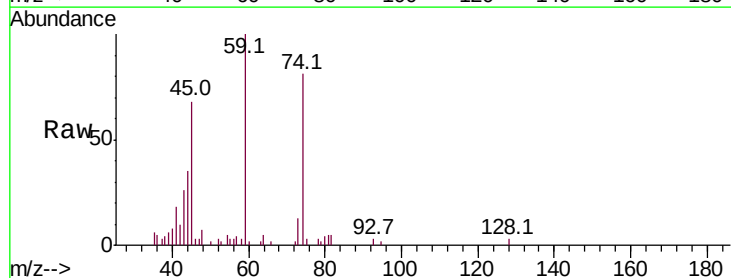
MMDadoda
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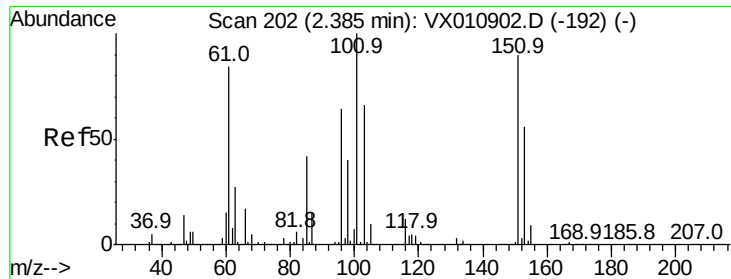


#8

Diethyl Ether
Concen: 2.666 ug/l
RT: 2.19 min Scan# 170
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Tgt Ion: 74 Resp: 3069
Ion Ratio Lower Upper
74 100
45 107.0 45.5 136.5





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.608 ug/l

RT: 2.38 min Scan# 201

Delta R.T. -0.01 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

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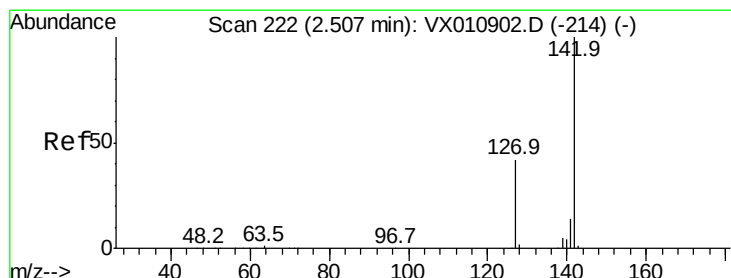
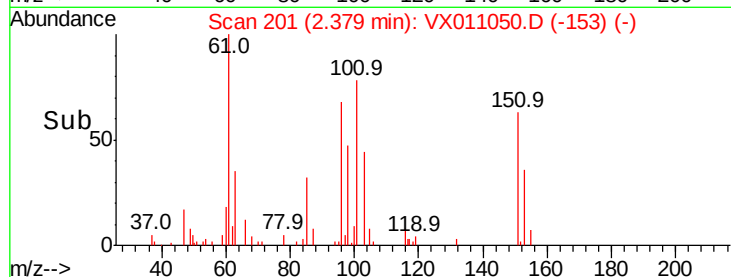
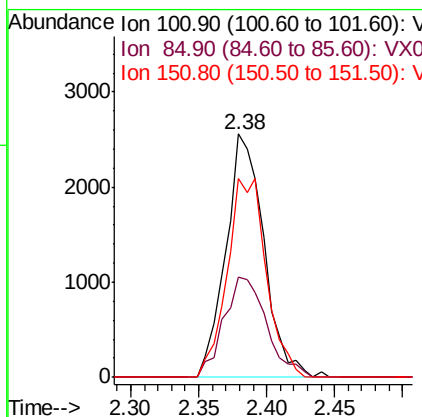
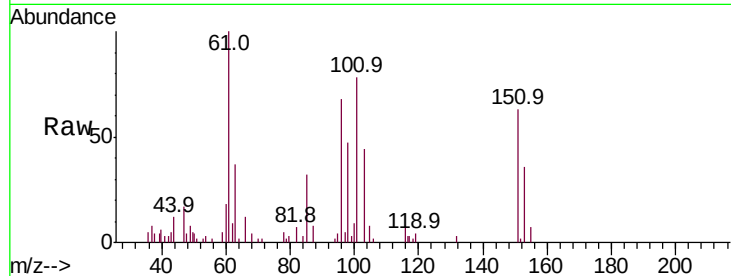
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:	101	Resp:	4977
Ion	Ratio	Lower	Upper
101	100		
85	46.1	34.6	52.0
151	84.0	69.6	104.4

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#10

Methyl Iodide

Concen: 1.849 ug/l

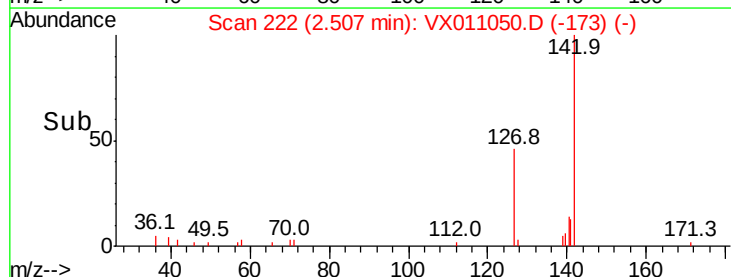
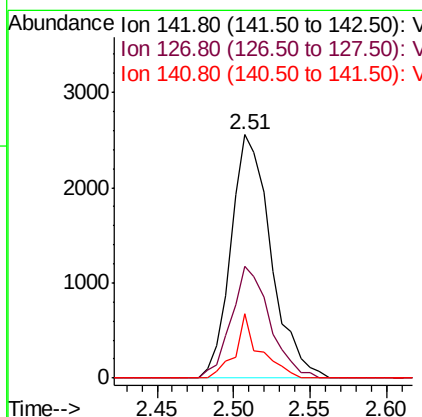
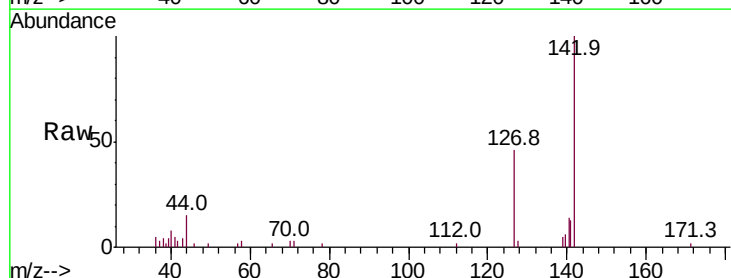
RT: 2.51 min Scan# 222

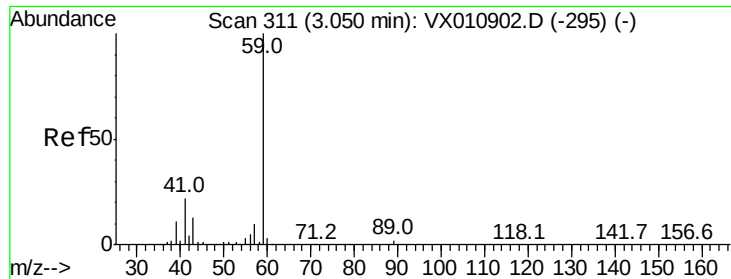
Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Tgt Ion:	142	Resp:	4629
Ion	Ratio	Lower	Upper
142	100		
127	44.3	34.2	51.4
141	16.3	11.7	17.5





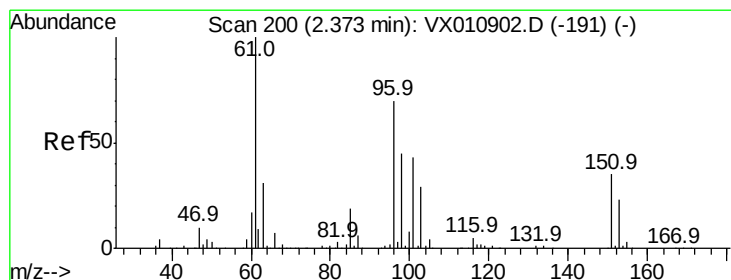
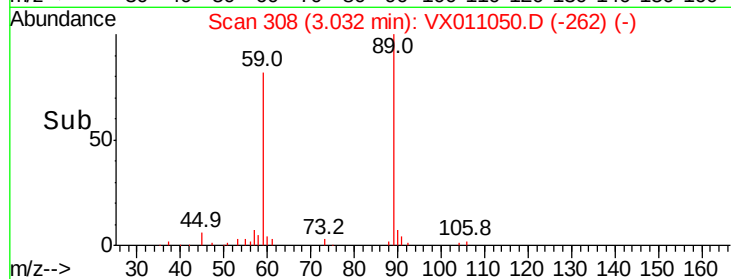
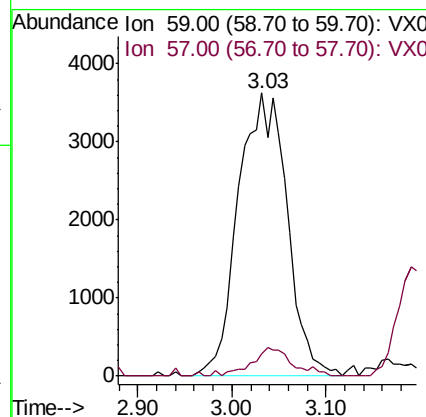
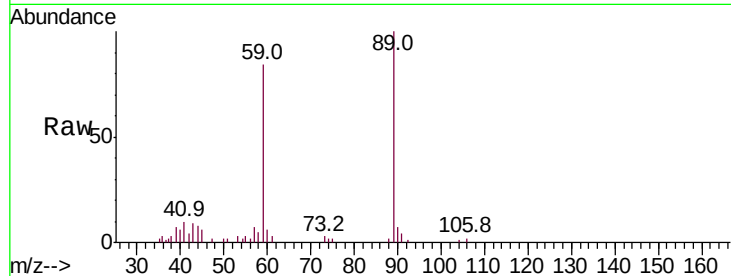
#11
Tert butyl alcohol
Concen: 25.124 ug/l
RT: 3.03 min Scan# 308
Delta R.T. -0.02 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.2	7.9	11.9

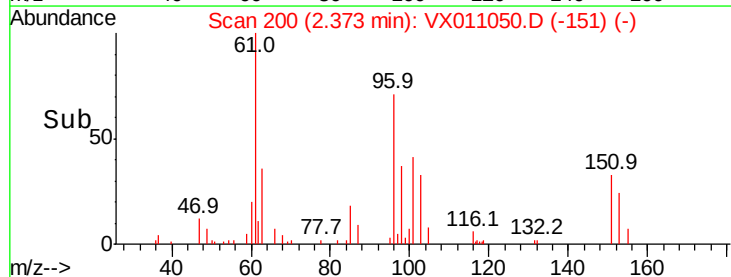
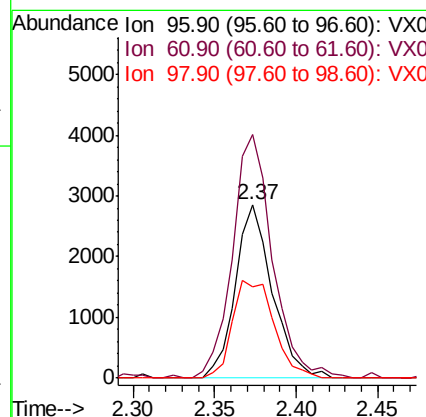
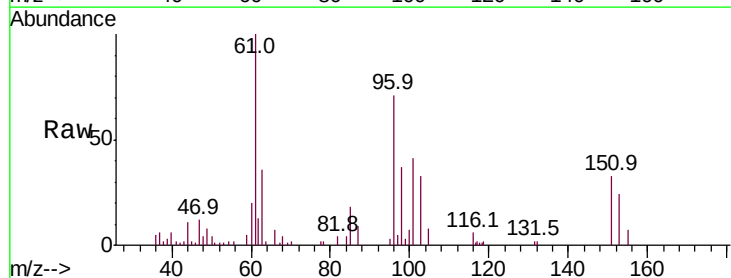
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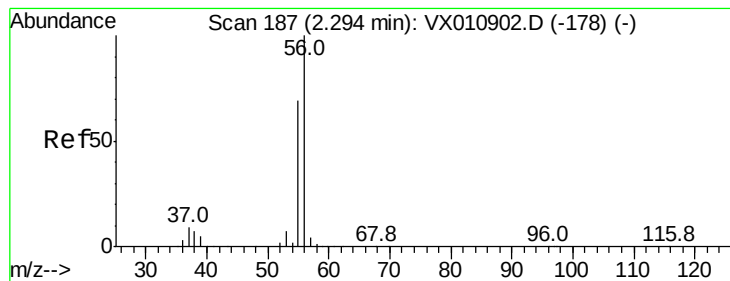
MMDadoda
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#12
1,1-Dichloroethene
Concen: 2.404 ug/l
RT: 2.37 min Scan# 200
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Tgt Ion	Ratio	Lower	Upper
96	100		
61	140.3	115.0	172.4
98	52.5	52.2	78.2





#13

Acrolein

Concen: 12.656 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 56 Resp: 3813

Ion Ratio Lower Upper

56 100

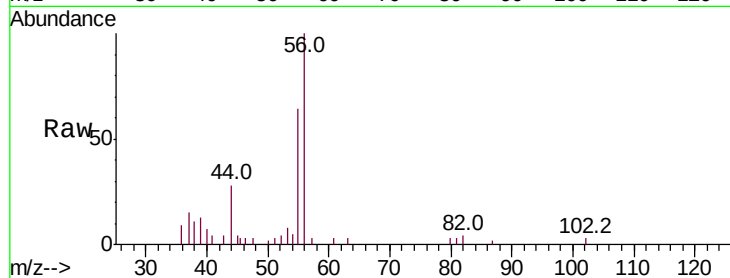
55 66.5 55.9 83.9

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Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

2.29

2500

2000

1500

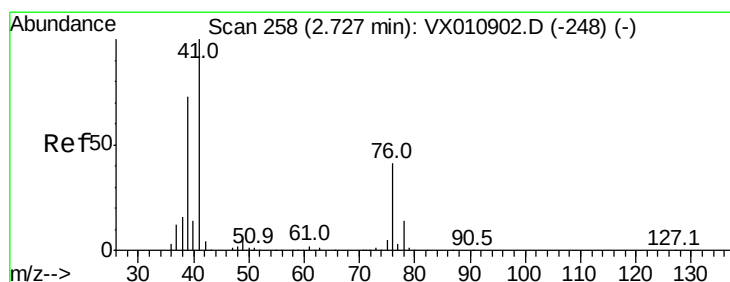
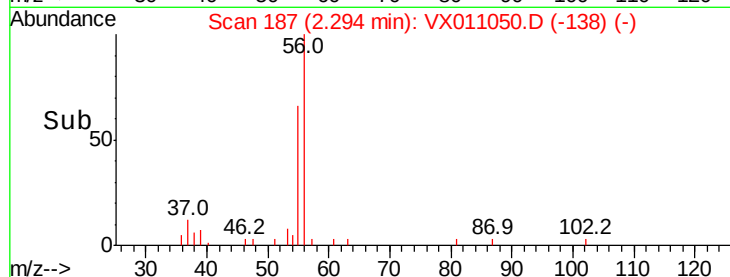
1000

500

0

2.25 2.30 2.35

Time-->



#14

Allyl chloride

Concen: 2.292 ug/l

RT: 2.72 min Scan# 257

Delta R.T. -0.01 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

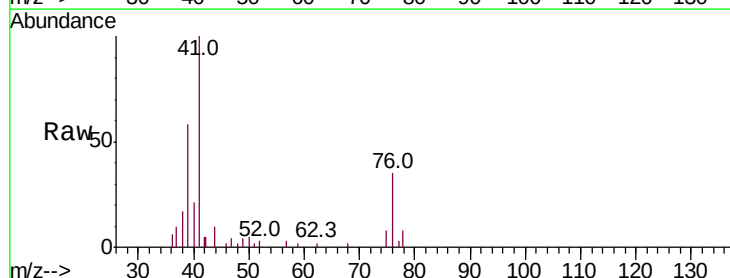
Tgt Ion: 41 Resp: 6240

Ion Ratio Lower Upper

41 100

39 68.3 53.6 80.4

76 40.7 29.7 44.5



Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 75.90 (75.60 to 76.60): VX0

4000

3000

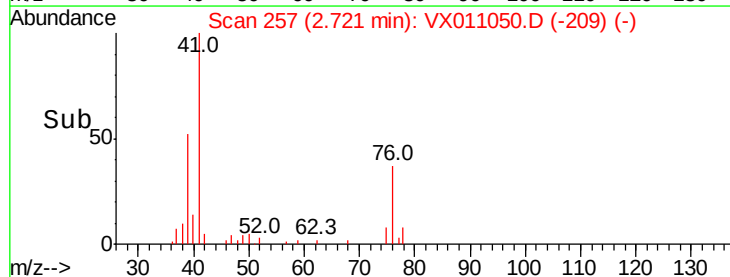
2000

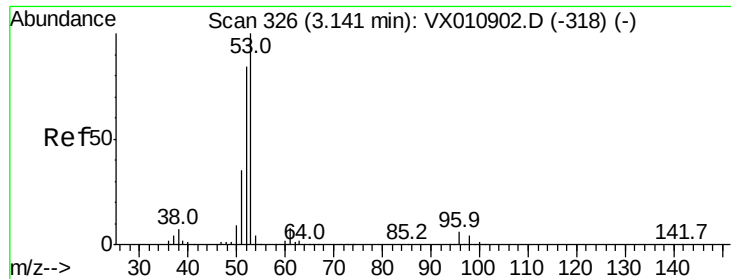
1000

0

2.65 2.70 2.75 2.80

Time-->





#15

Acrylonitrile

Concen: 13.902 ug/l

RT: 3.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

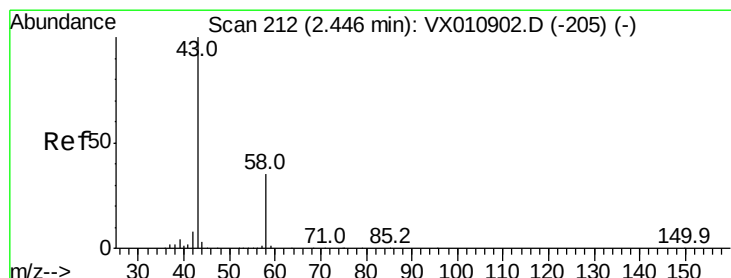
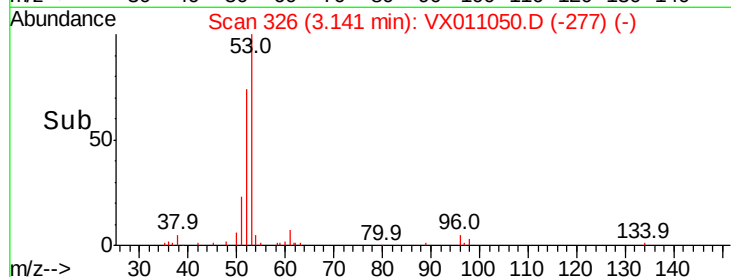
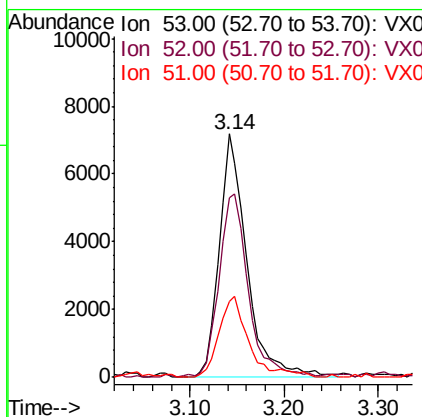
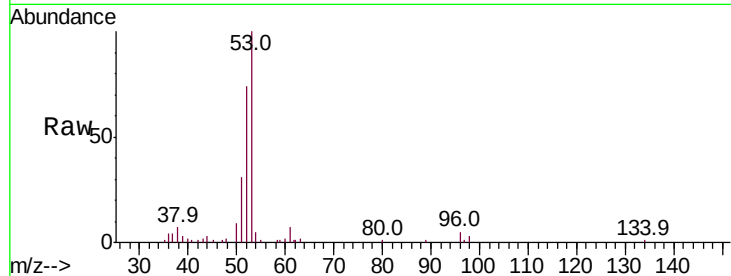
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:	53	Resp:	14648
Ion Ratio	Lower	Upper	
53	100		
52	80.4	66.5	99.7
51	33.4	28.2	42.4

Manual Integrations
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#16

Acetone

Concen: 13.492 ug/l

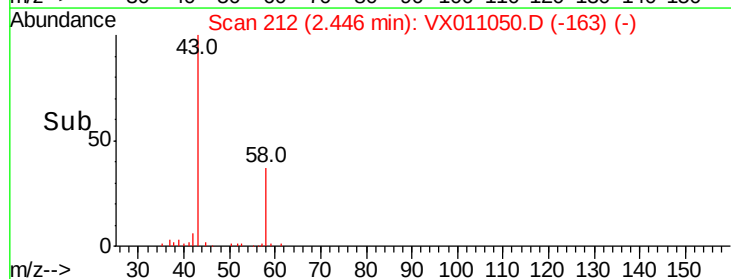
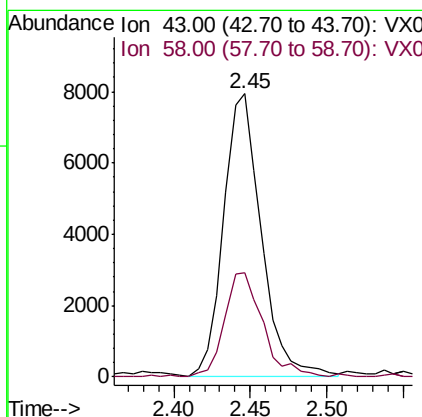
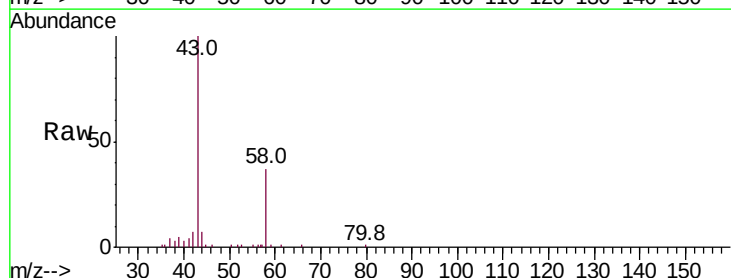
RT: 2.45 min Scan# 212

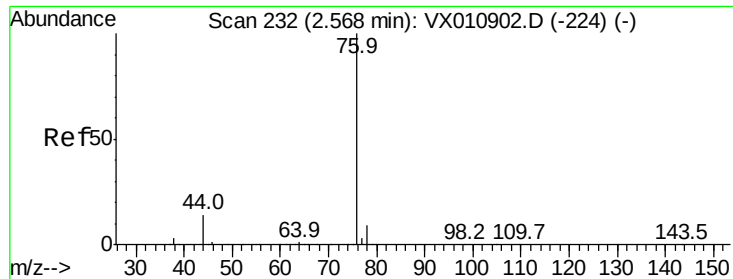
Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Tgt Ion:	43	Resp:	13644
Ion Ratio	Lower	Upper	
43	100		
58	37.0	27.7	41.5





#17

Carbon Disulfide

Concen: 1.988 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 76 Resp: 9559

Ion Ratio Lower Upper

76 100

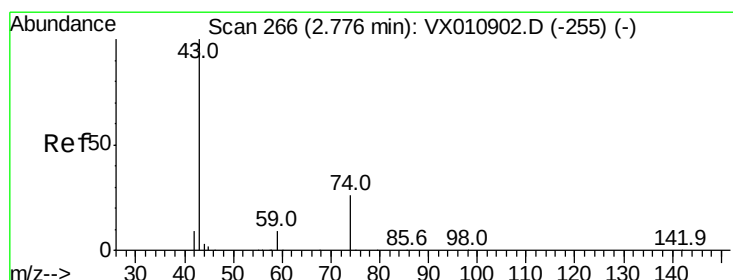
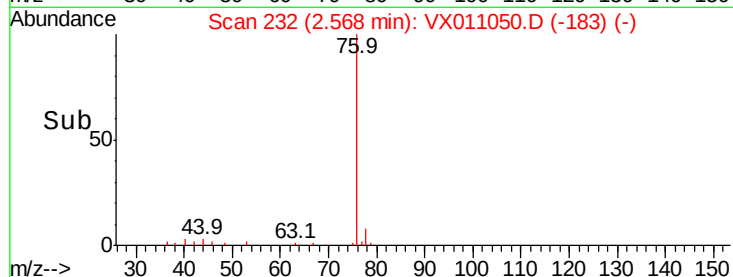
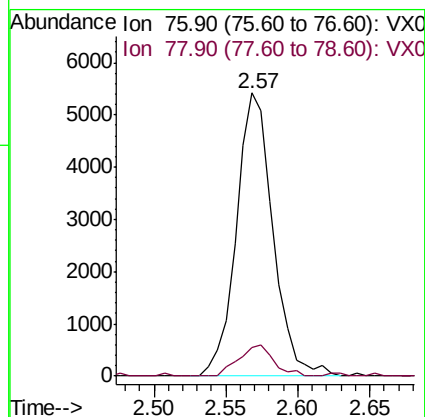
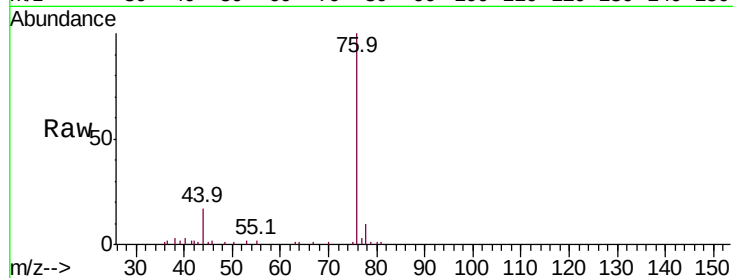
78 10.0 7.4 11.0

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#18

Methyl Acetate

Concen: 3.836 ug/l

RT: 2.78 min Scan# 266

Delta R.T. 0.00 min

Lab File: VX011050.D

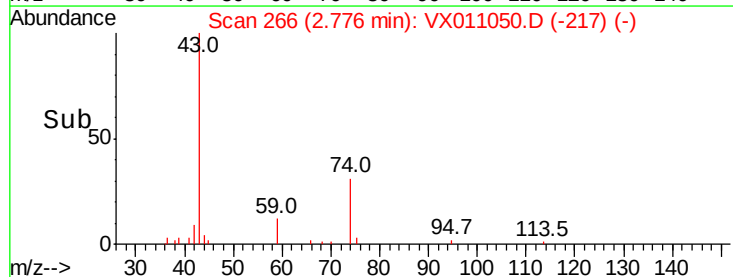
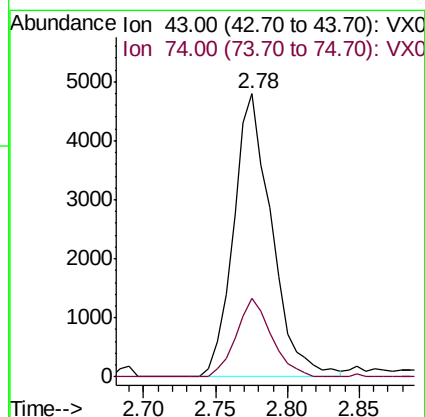
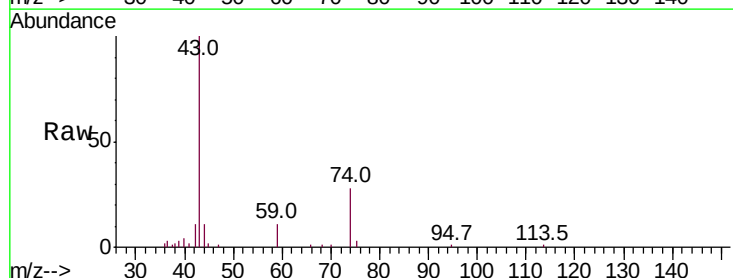
Acq: 23 Jul 2019 11:19

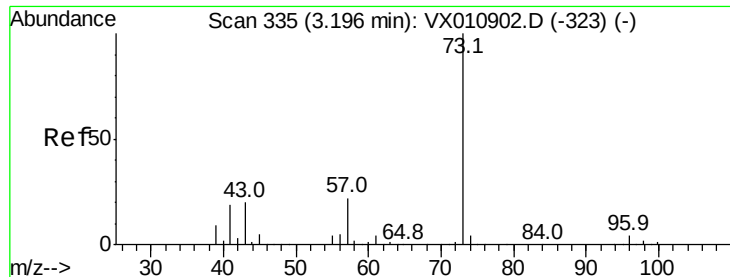
Tgt Ion: 43 Resp: 8834

Ion Ratio Lower Upper

43 100

74 25.7 21.5 32.3





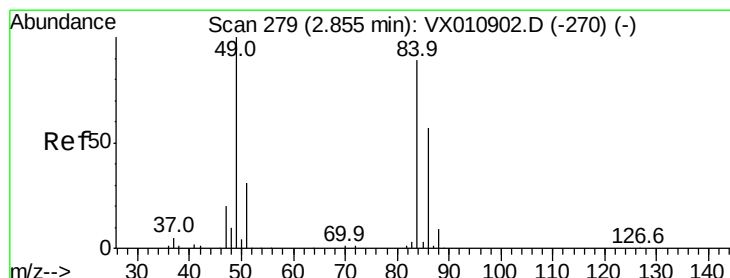
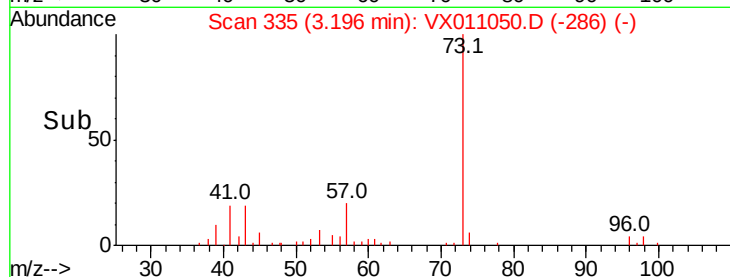
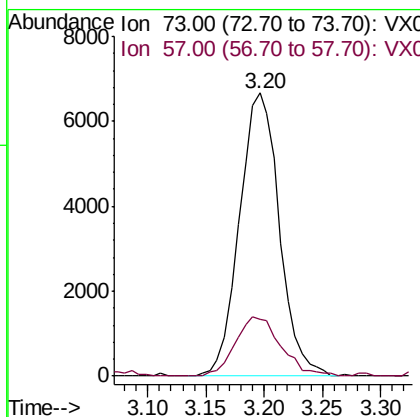
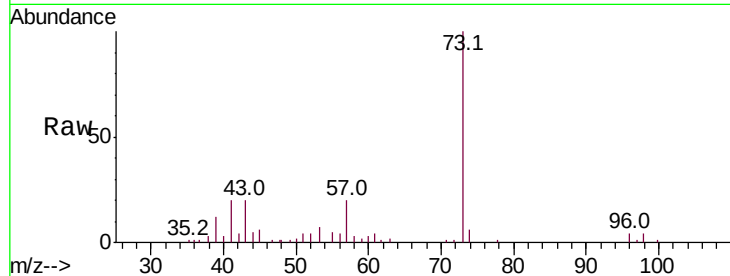
#19
Methyl tert-butyl Ether
Concen: 2.641 ug/l
RT: 3.20 min Scan# 335
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 73 Resp: 15938
Ion Ratio Lower Upper
73 100
57 20.2 17.3 25.9

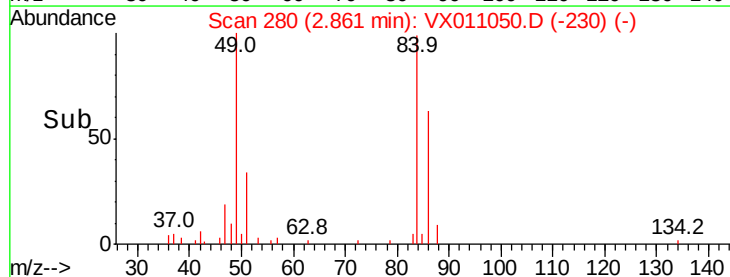
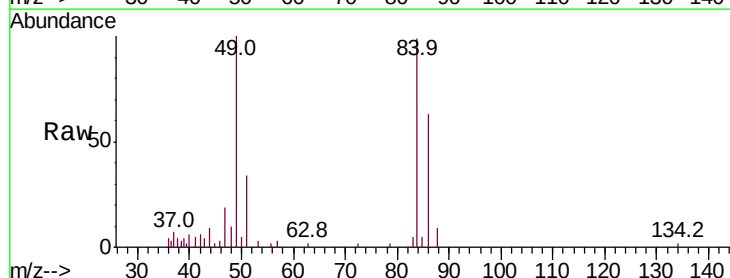
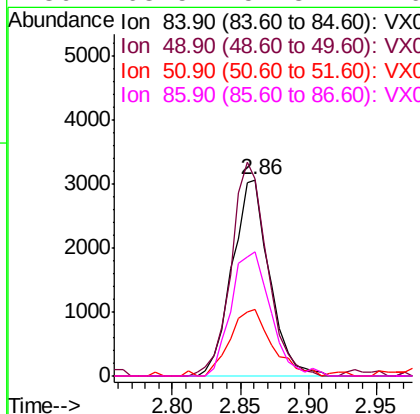
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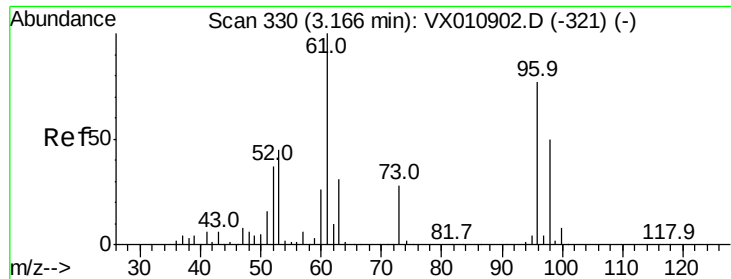
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#20
Methylene Chloride
Concen: 2.735 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Tgt Ion: 84 Resp: 5862
Ion Ratio Lower Upper
84 100
49 100.7 89.9 134.9
51 32.3 27.8 41.6
86 63.5 51.8 77.6





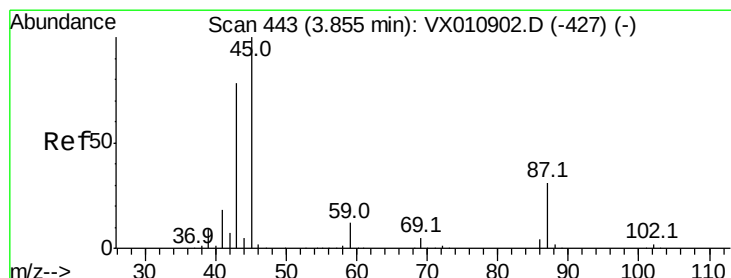
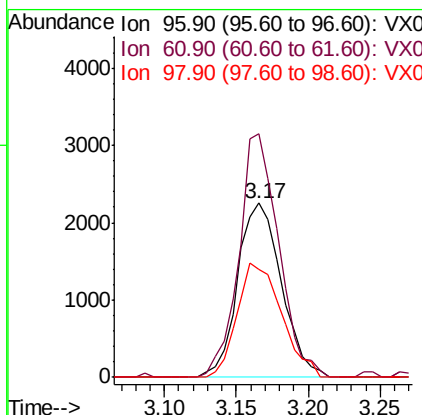
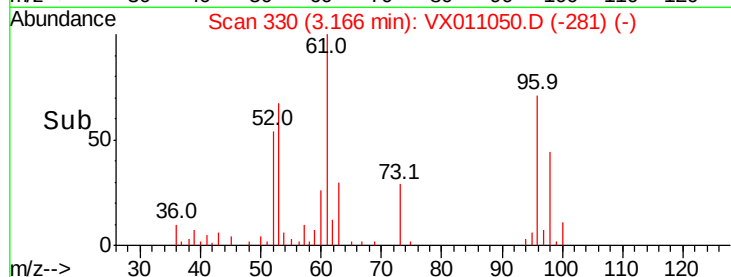
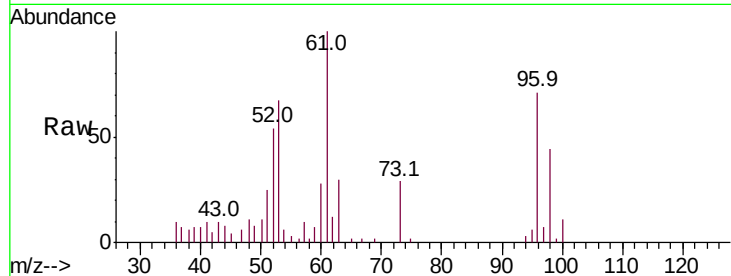
#21
trans-1,2-Dichloroethene
Concen: 2.382 ug/l
RT: 3.17 min Scan# 330
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	140.0	104.2	156.2
98	61.7	52.2	78.4

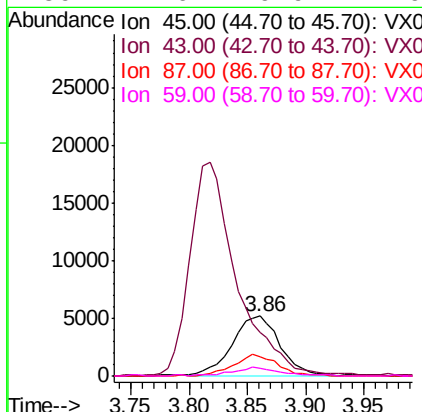
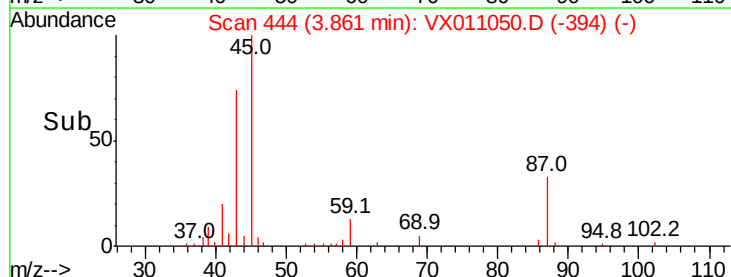
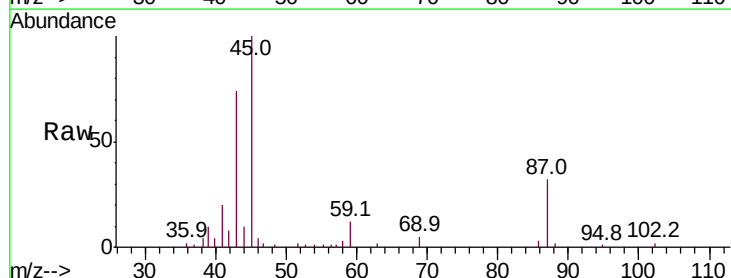
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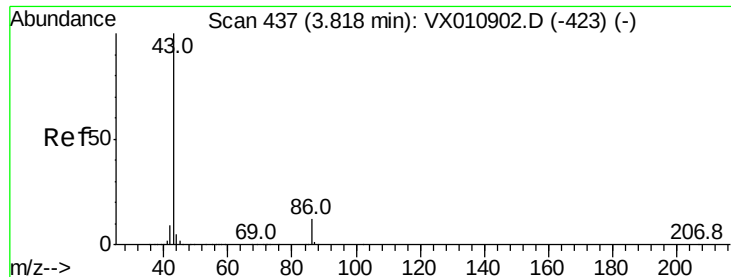
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#22
Diisopropyl ether
Concen: 2.576 ug/l
RT: 3.86 min Scan# 444
Delta R.T. 0.01 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Tgt Ion	Ratio	Lower	Upper
45	100		
43	71.0	62.3	93.5
87	32.1	25.0	37.4
59	12.6	9.9	14.9





#23

Vinyl Acetate

Concen: 10.668 ug/l

RT: 3.82 min Scan# 437

Delta R.T. -0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 43 Resp: 51910

Ion Ratio Lower Upper

43 100

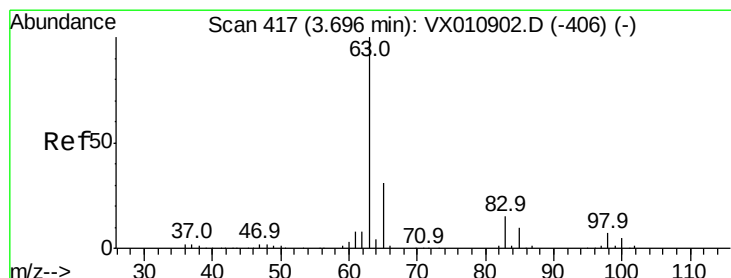
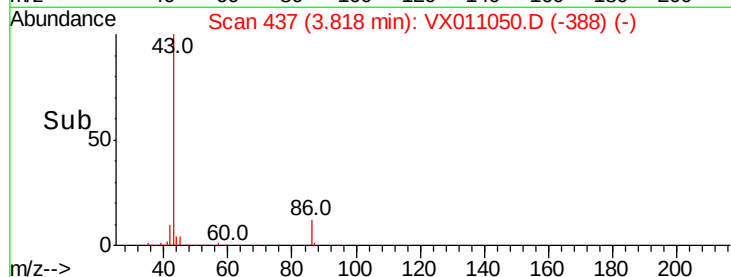
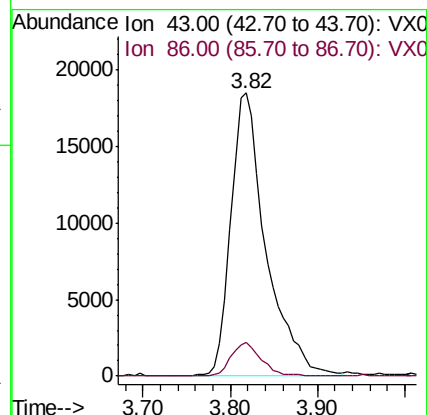
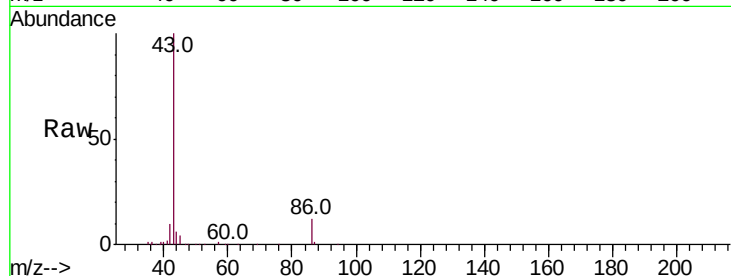
86 11.8 9.4 14.0

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#24

1,1-Dichloroethane

Concen: 2.691 ug/l

RT: 3.70 min Scan# 418

Delta R.T. 0.01 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

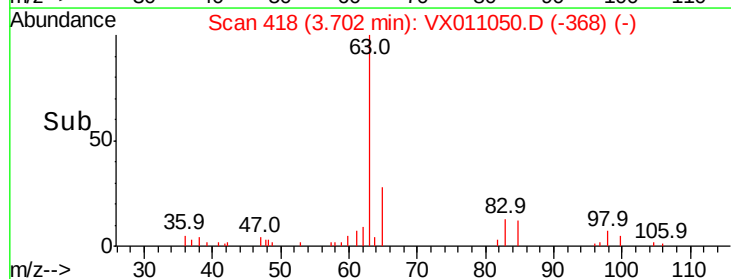
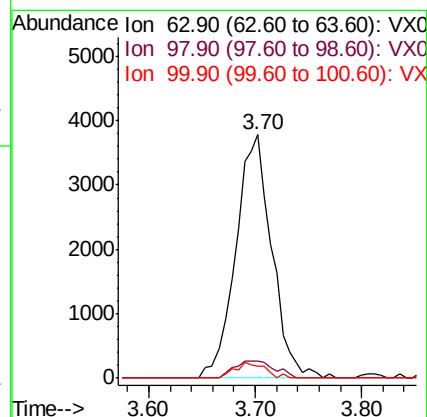
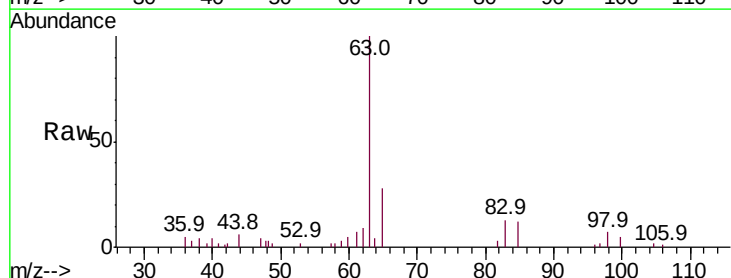
Tgt Ion: 63 Resp: 8975

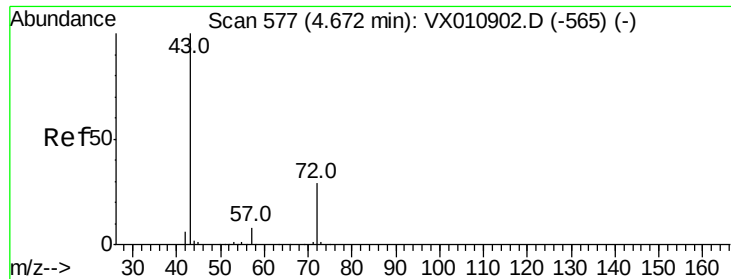
Ion Ratio Lower Upper

63 100

98 7.2 3.6 10.9

100 5.1 2.4 7.2





#25

2-Butanone

Concen: 13.258 ug/l

RT: 4.68 min Scan# 578

Delta R.T. 0.01 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 43 Resp: 19246

Ion Ratio Lower Upper

43 100

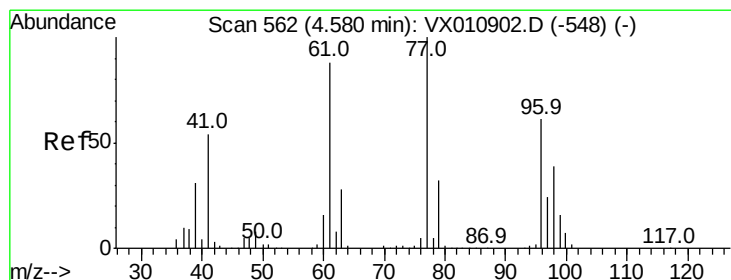
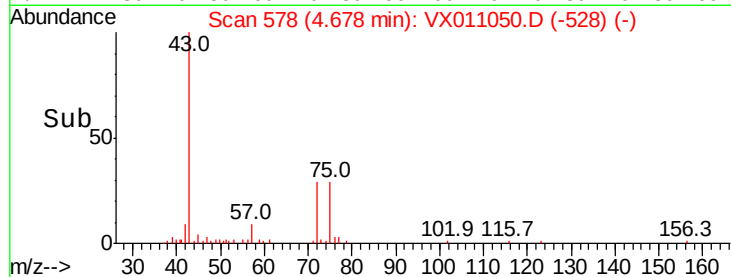
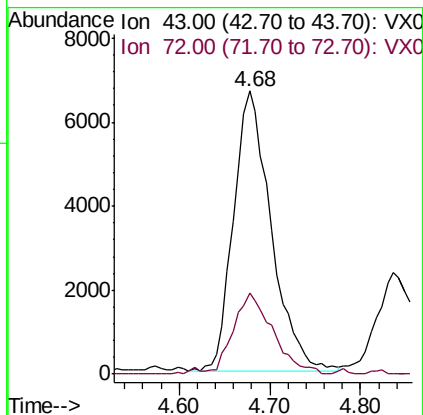
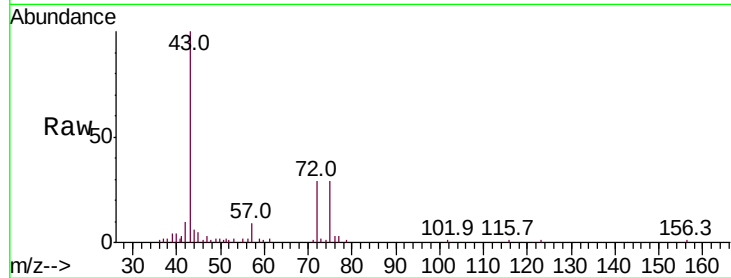
72 27.6 23.0 34.6

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#26

2,2-Dichloropropane

Concen: 2.512 ug/l

RT: 4.59 min Scan# 564

Delta R.T. 0.01 min

Lab File: VX011050.D

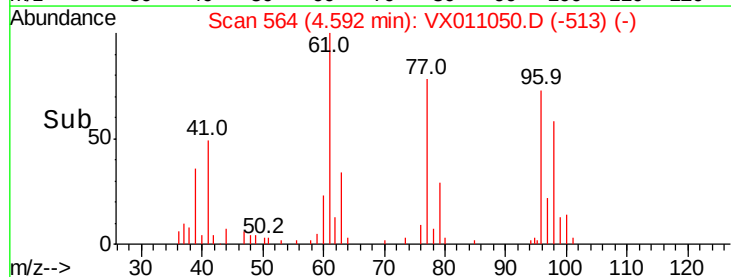
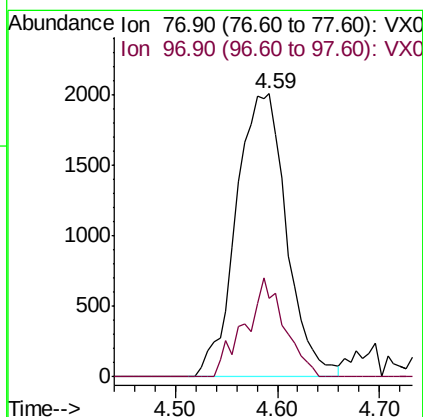
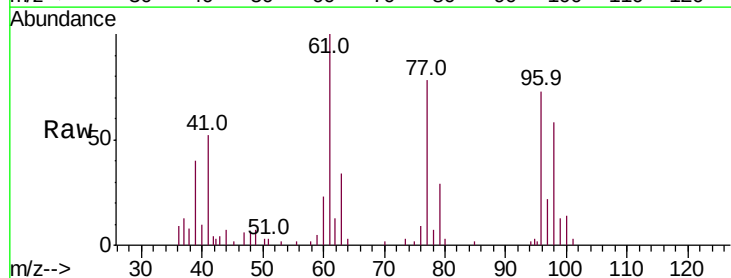
Acq: 23 Jul 2019 11:19

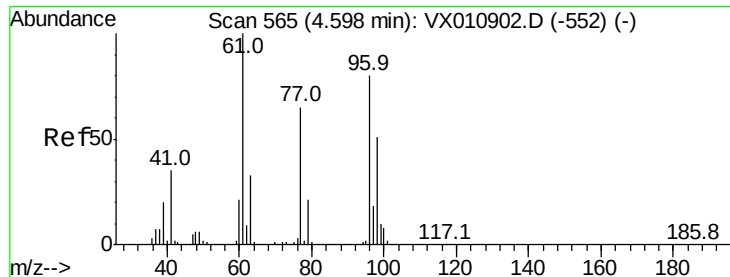
Tgt Ion: 77 Resp: 6879

Ion Ratio Lower Upper

77 100

97 27.6 12.6 37.6





#27

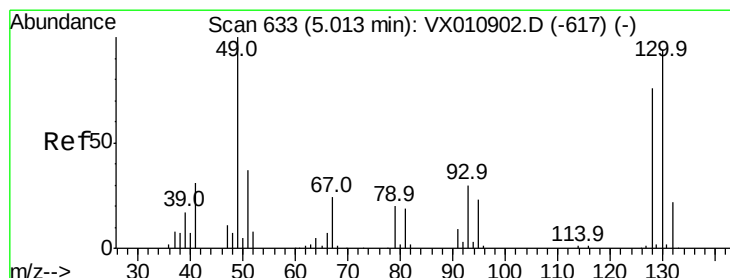
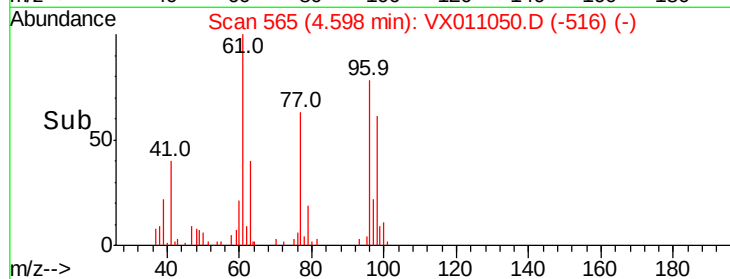
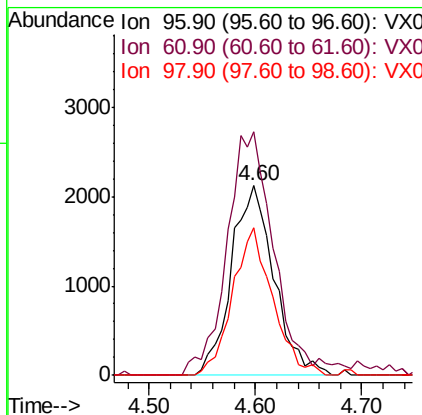
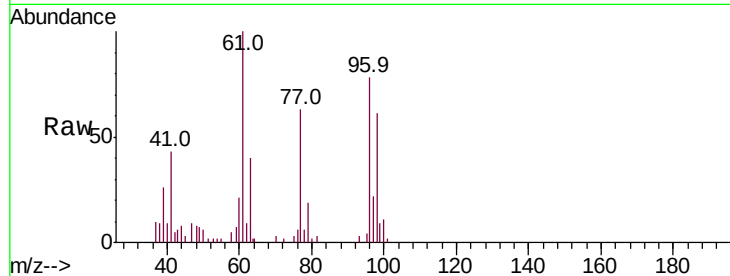
cis-1,2-Dichloroethene
Concen: 2.586 ug/l
RT: 4.60 min Scan# 565
Delta R.T. -0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion	Ratio	Lower	Upper
96	100		
61	143.0	0.0	269.0
98	73.1	0.0	131.4

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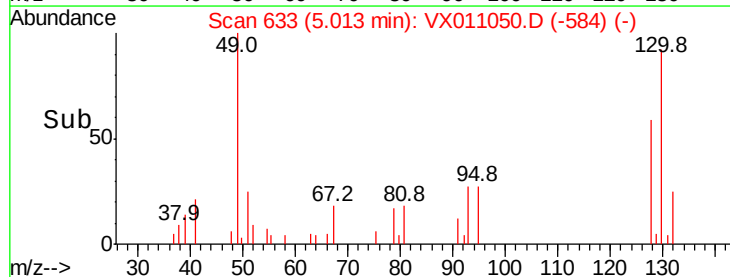
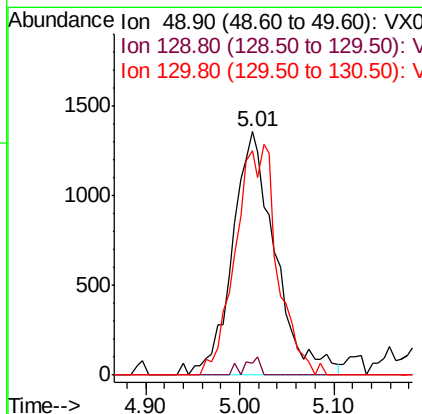
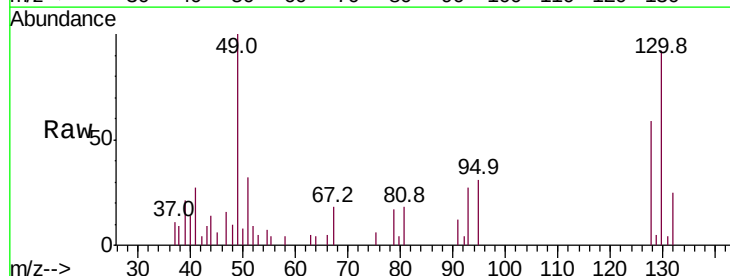
MMDadoda
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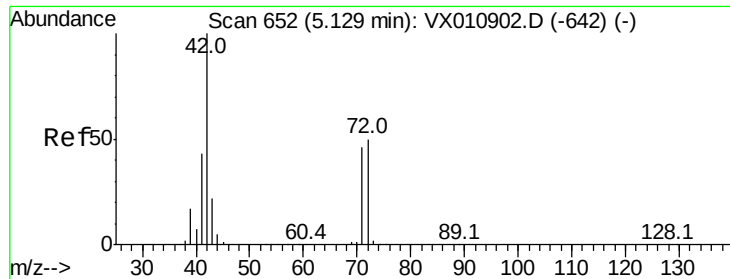


#28

Bromochloromethane
Concen: 2.726 ug/l
RT: 5.01 min Scan# 633
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Tgt Ion	Ratio	Lower	Upper
49	100		
129	2.6	0.0	5.2
130	93.4	76.9	115.3





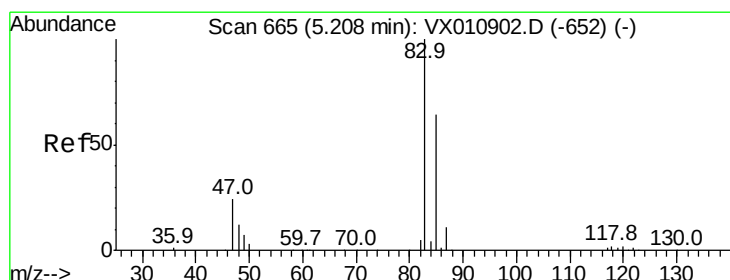
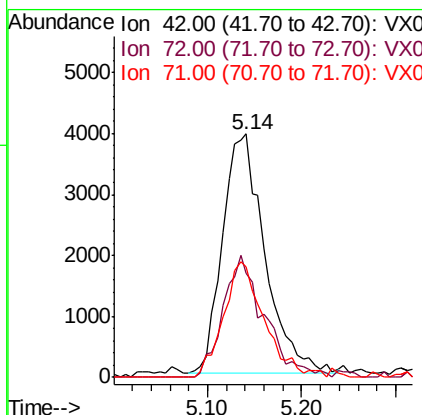
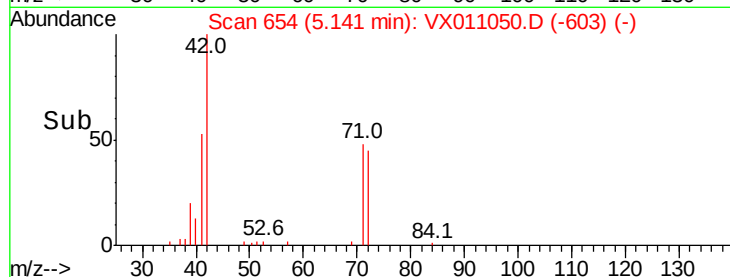
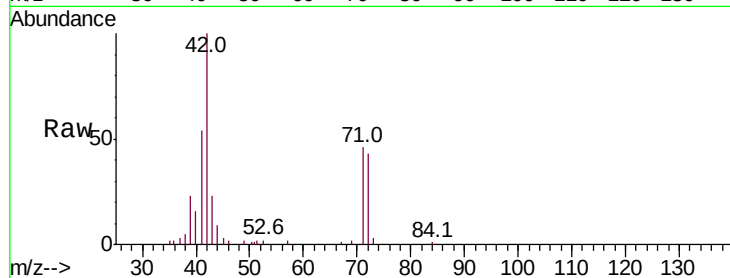
#29
Tetrahydrofuran
Concen: 13.358 ug/l
RT: 5.14 min Scan# 654
Delta R.T. 0.01 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:	42	Resp:	12283
Ion	Ratio	Lower	Upper
42	100		
72	49.3	39.8	59.8
71	45.7	37.0	55.4

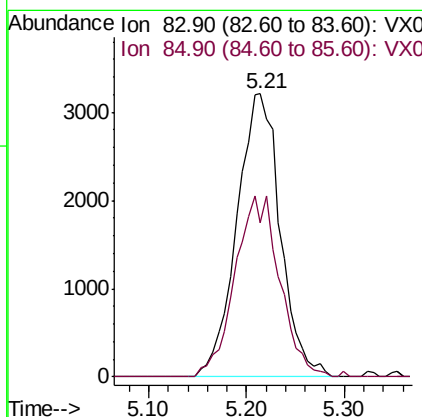
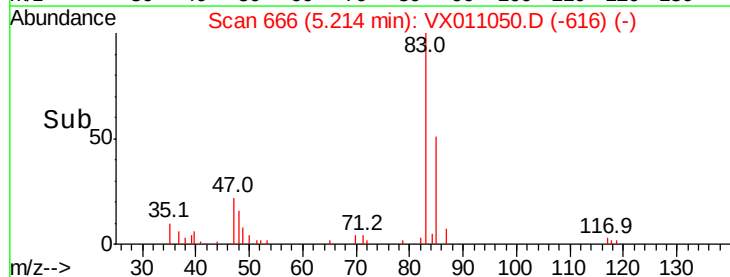
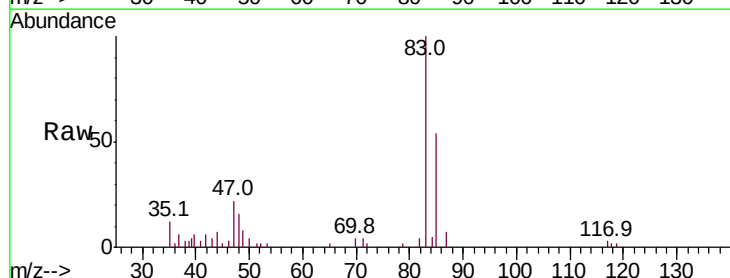
Manual Integrations
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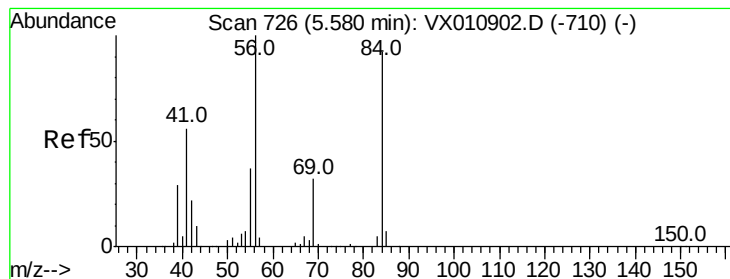
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#30
Chloroform
Concen: 2.745 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.01 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Tgt Ion:	83	Resp:	9895
Ion	Ratio	Lower	Upper
83	100		
85	54.4	51.4	77.0





#31

Cyclohexane

Concen: 2.353 ug/l

RT: 5.58 min Scan# 726

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

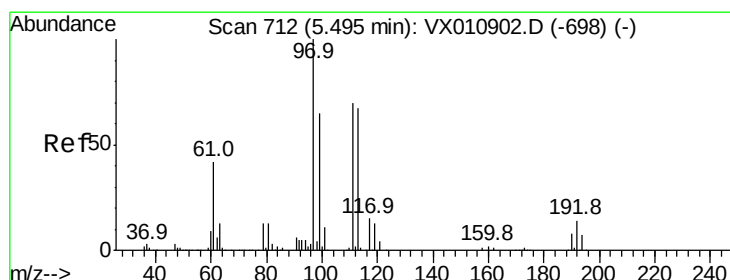
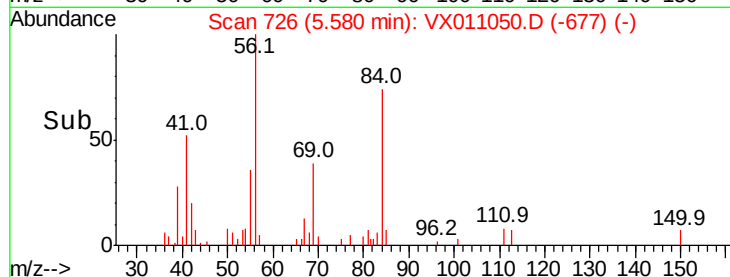
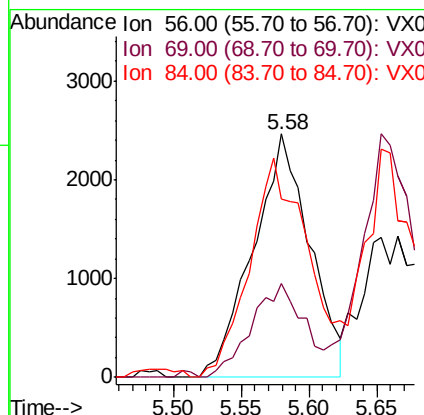
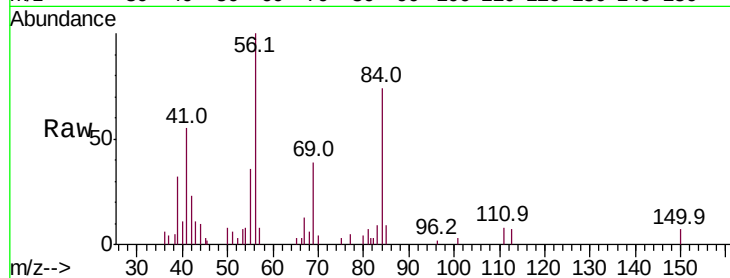
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:	56	Resp:	7154
Ion	Ratio	Lower	Upper
56	100		
69	36.2	25.8	38.8
84	73.6	73.8	110.6#

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 2.491 ug/l

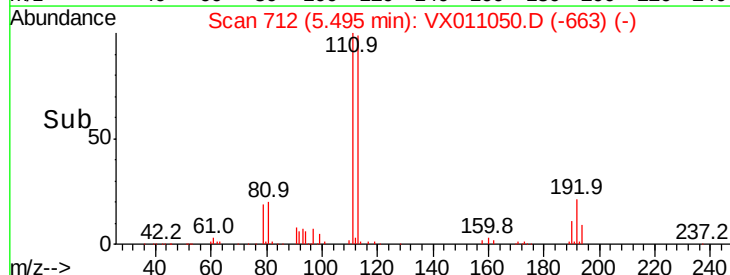
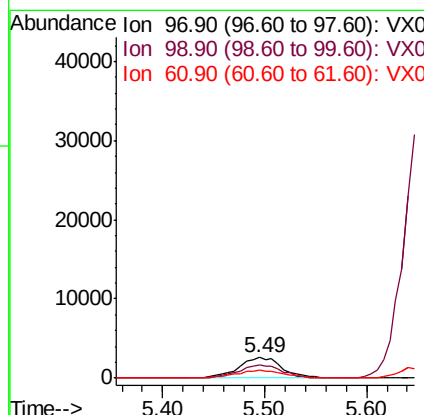
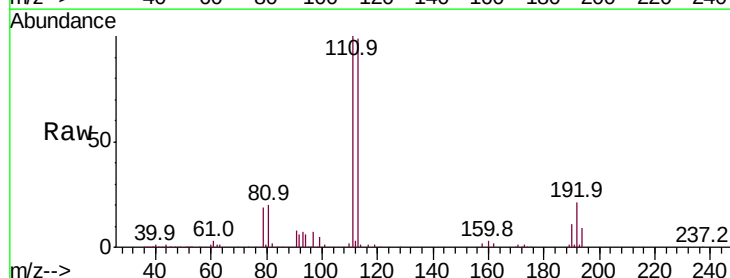
RT: 5.49 min Scan# 712

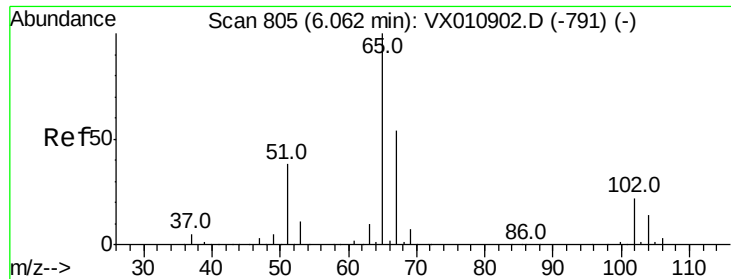
Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Tgt Ion:	97	Resp:	7768
Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.4	77.0
61	41.4	33.0	49.6





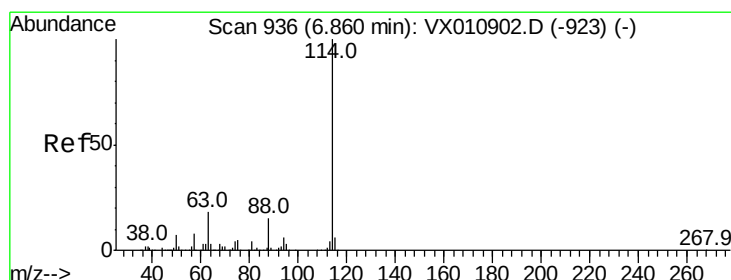
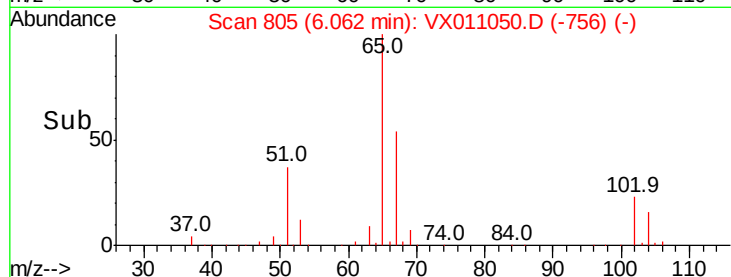
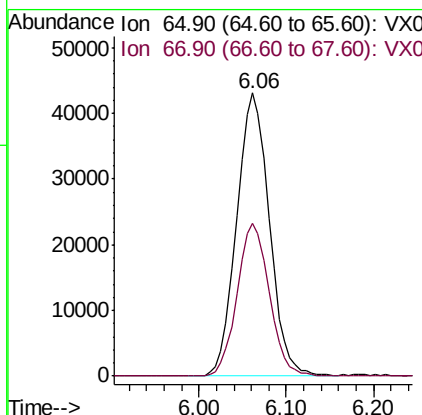
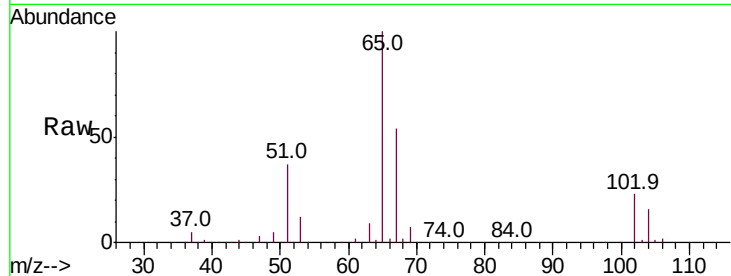
#33
 1,2-Dichloroethane-d4
 Concen: 50.138 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX011050.D
 Acq: 23 Jul 2019 11:19

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	53.2	0.0	107.8	

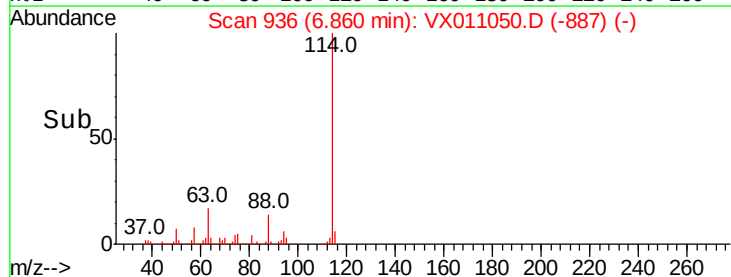
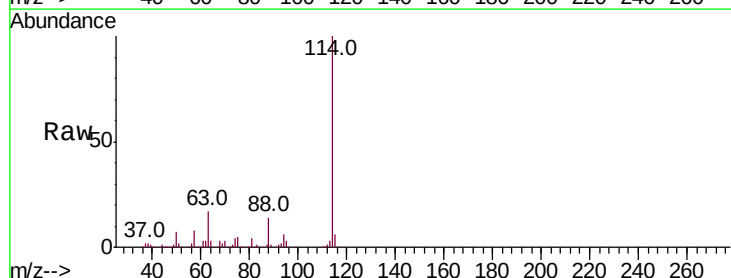
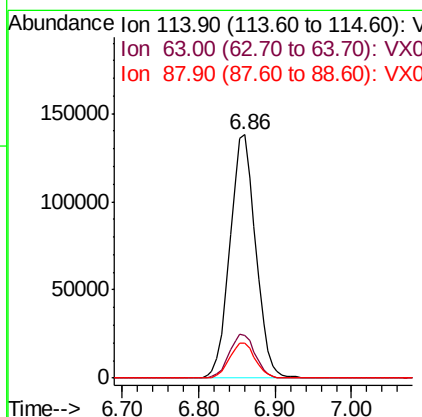
Manual Integrations
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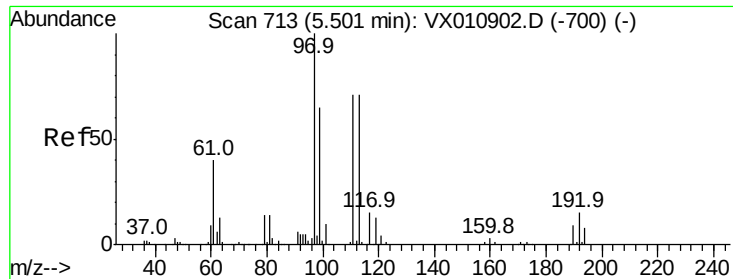
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX011050.D
 Acq: 23 Jul 2019 11:19

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	17.3	0.0	35.6	
88	14.1	0.0	29.8	





#35

Dibromofluoromethane

Concen: 48.998 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

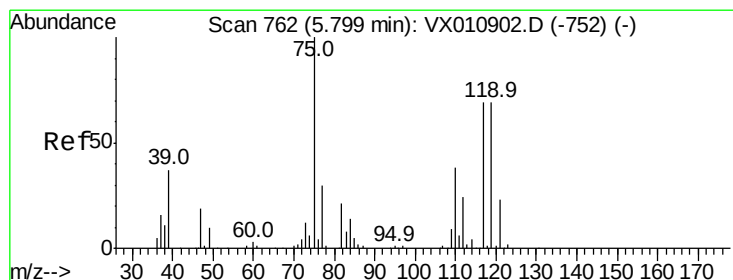
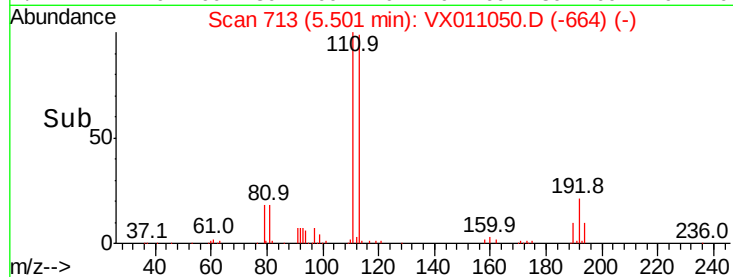
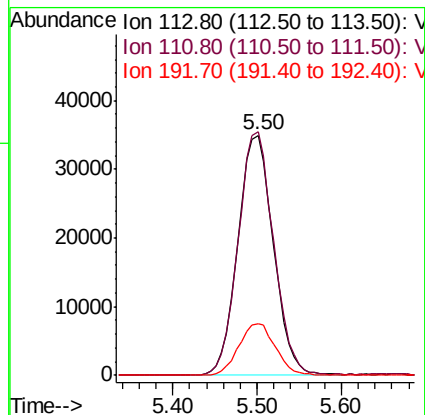
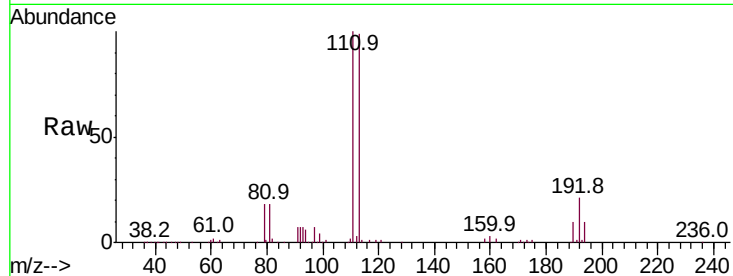
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:	113	Resp:	99860
Ion	Ratio	Lower	Upper
113	100		
111	101.2	82.3	123.5
192	22.0	17.4	26.2

Manual Integrations
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#36

1,1-Dichloropropene

Concen: 2.535 ug/l

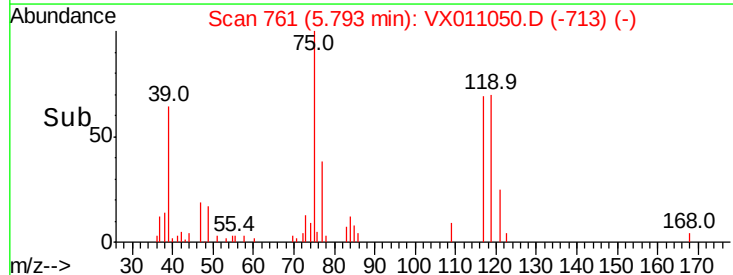
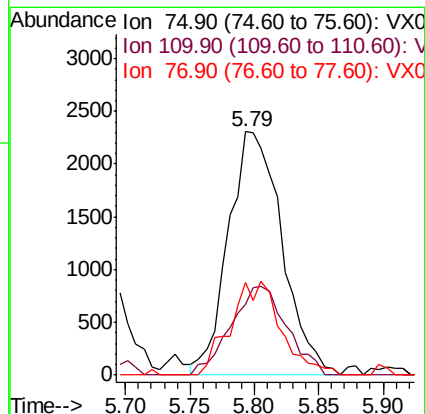
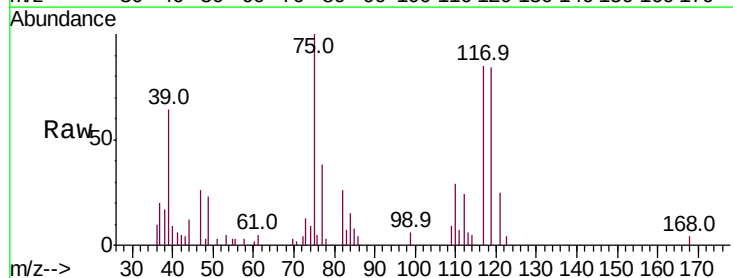
RT: 5.79 min Scan# 761

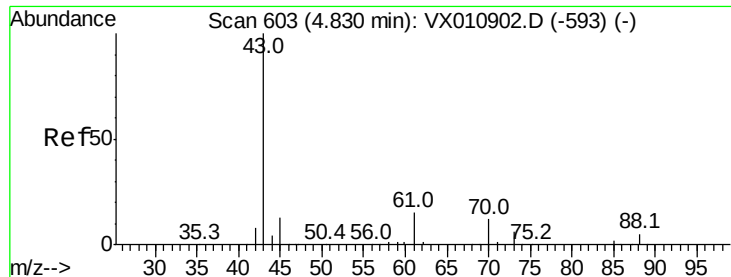
Delta R.T. -0.01 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Tgt Ion:	75	Resp:	6687
Ion	Ratio	Lower	Upper
75	100		
110	37.9	19.9	59.7
77	36.4	25.0	37.4





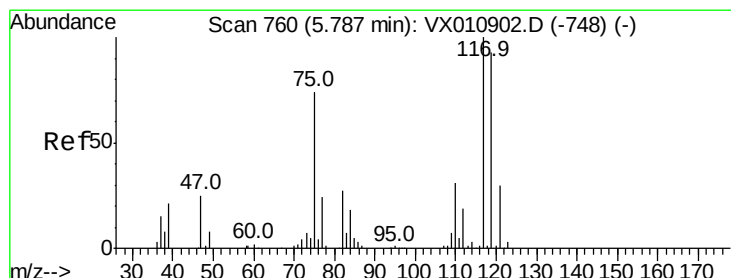
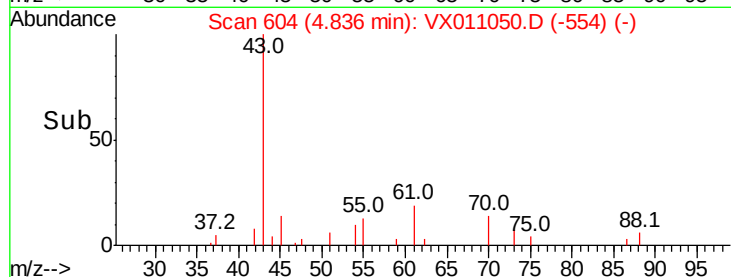
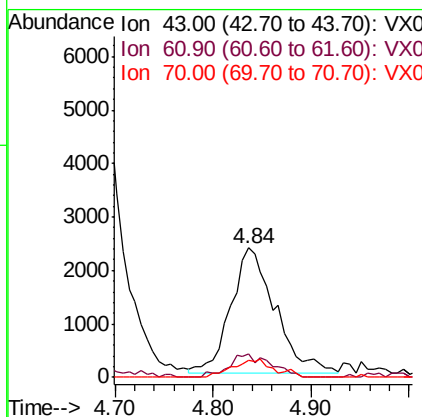
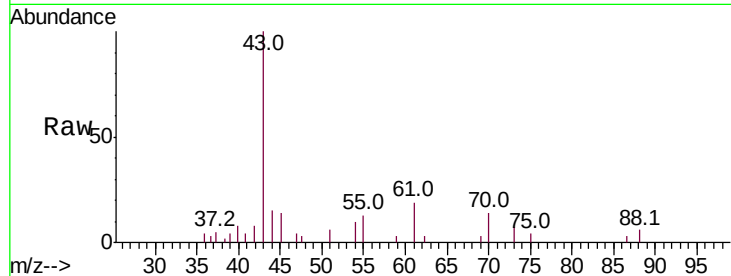
#37
Ethyl Acetate
Concen: 2.734 ug/l
RT: 4.84 min Scan# 604
Delta R.T. 0.01 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion	Ratio	Lower	Upper
43	100		
61	17.4	11.6	17.4#
70	13.2	9.1	13.7

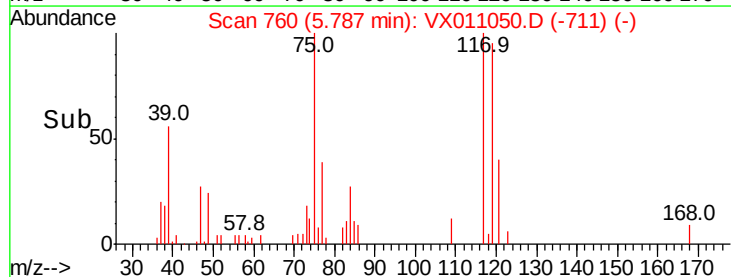
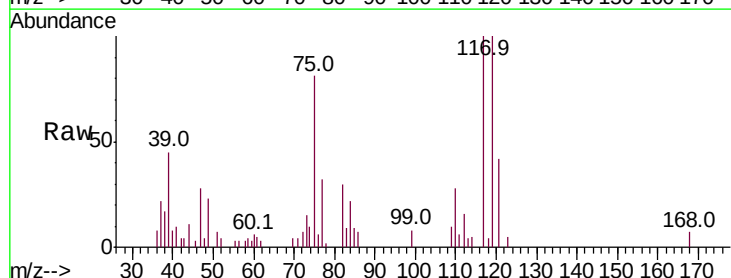
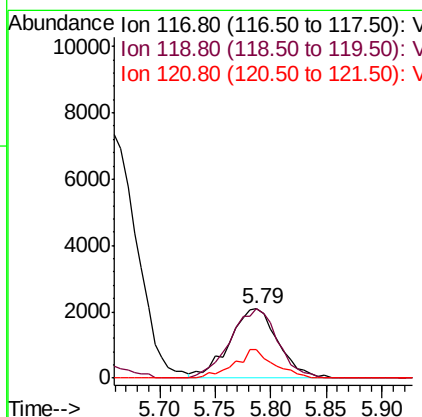
Manual Integrations
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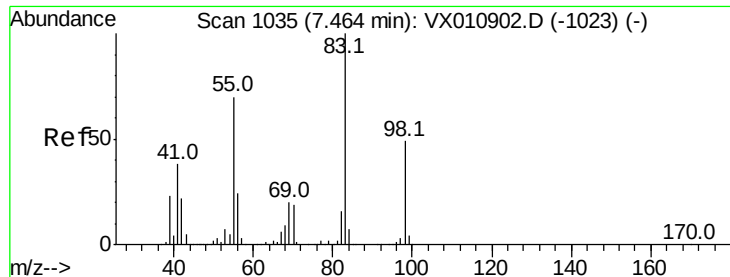
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#38
Carbon Tetrachloride
Concen: 2.318 ug/l
RT: 5.79 min Scan# 760
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Tgt Ion	Ratio	Lower	Upper
117	100		
119	100.1	74.2	111.2
121	41.7	24.2	36.2#





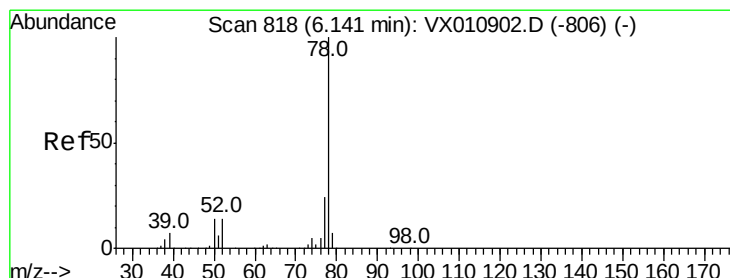
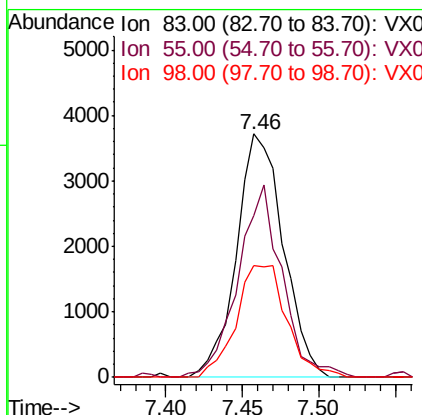
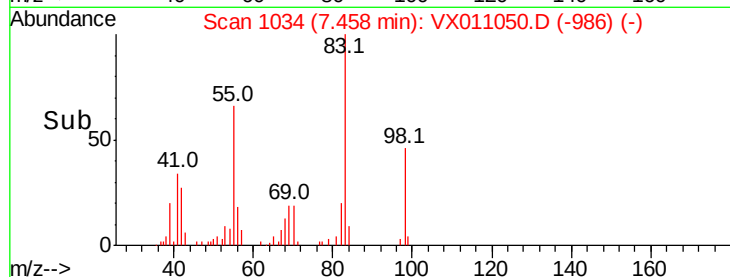
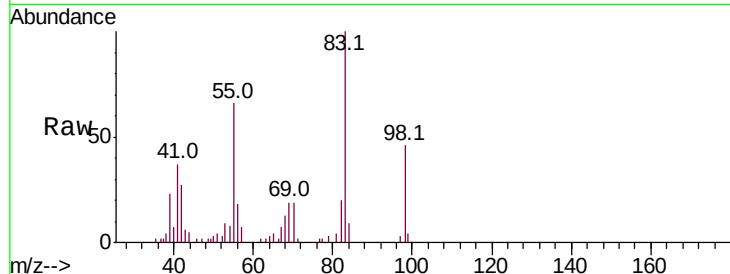
#39
Methylvlcyclohexane
Concen: 2.311 ug/l
RT: 7.46 min Scan# 1034
Delta R.T. -0.01 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion	83	Resp	7905
Ion Ratio	100	Lower	Upper
83	100		
55	64.5	56.2	84.4
98	45.8	39.0	58.4

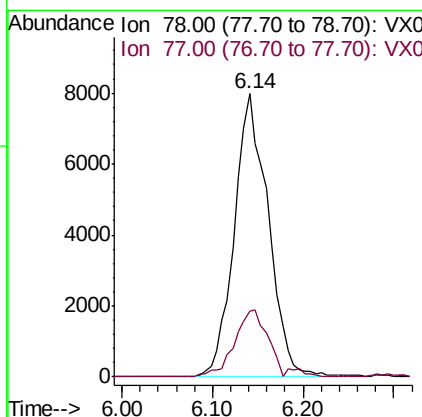
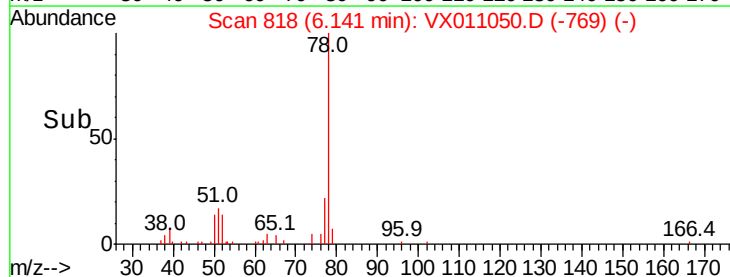
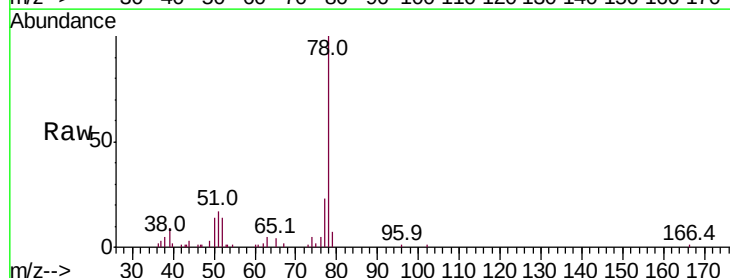
Manual Integrations
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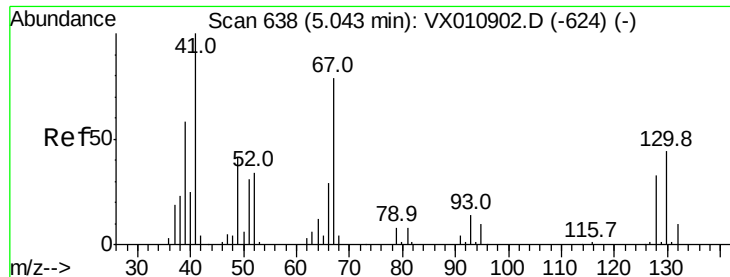
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#40
Benzene
Concen: 2.569 ug/l
RT: 6.14 min Scan# 818
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Tgt Ion	78	Resp	20757
Ion Ratio	100	Lower	Upper
78	100		
77	23.3	19.0	28.6





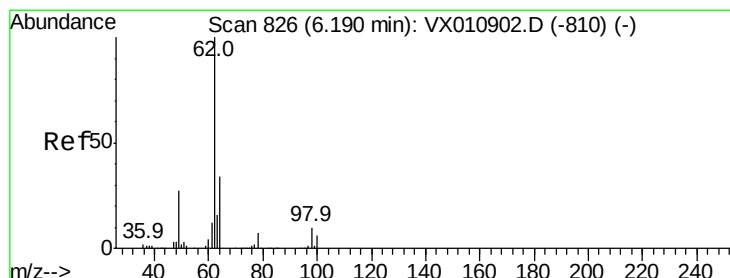
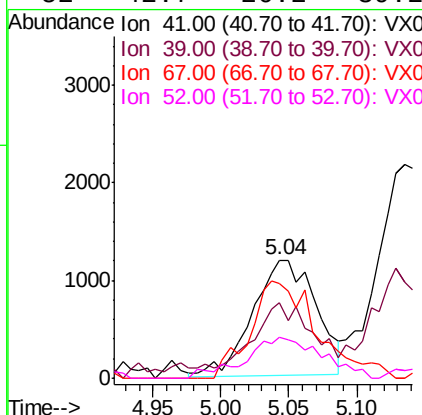
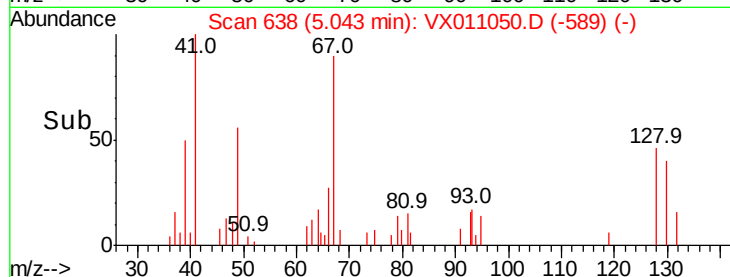
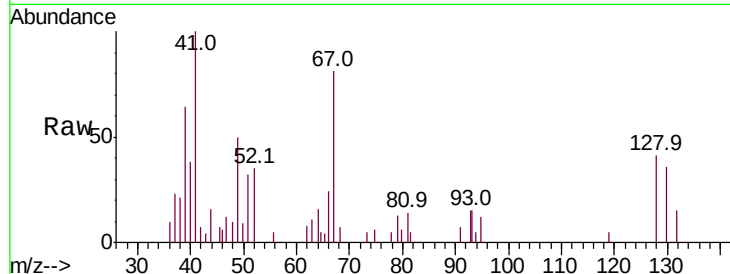
#41
Methacrylonitrile
Concen: 2.512 ug/l
RT: 5.04 min Scan# 638
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion	Ratio	Lower	Upper
41	100		
39	48.5	45.4	68.2
67	89.3	65.9	98.9
52	42.7	26.2	39.2#

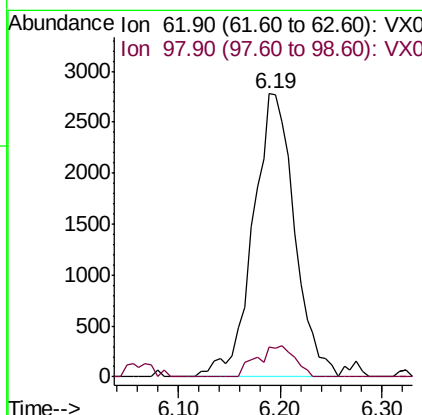
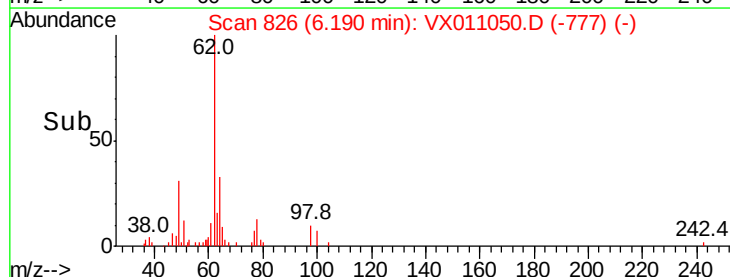
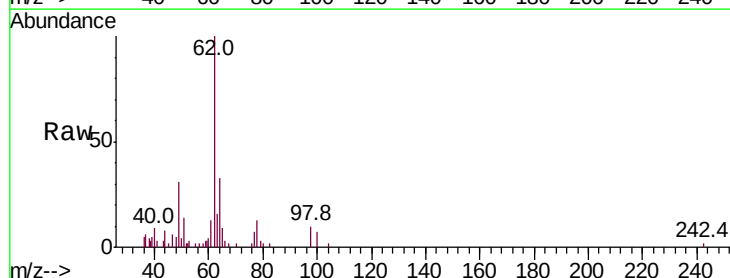
Manual Integrations
APPROVED

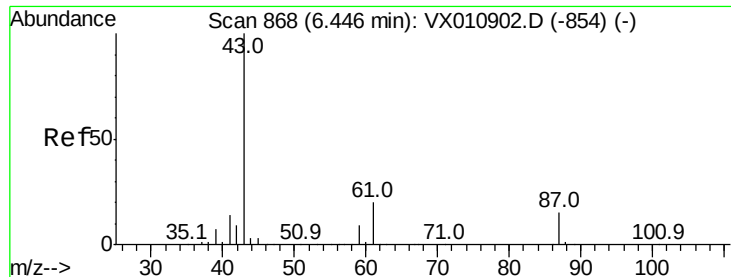
MMDadoda
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#42
1,2-Dichloroethane
Concen: 2.792 ug/l
RT: 6.19 min Scan# 826
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.9	0.0	20.0





#43

Isopropyl Acetate

Concen: 2.566 ug/l

RT: 6.45 min Scan# 868

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

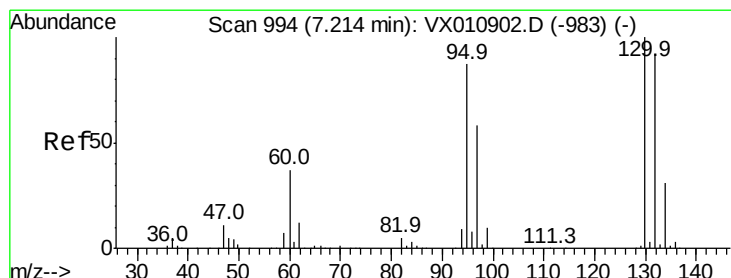
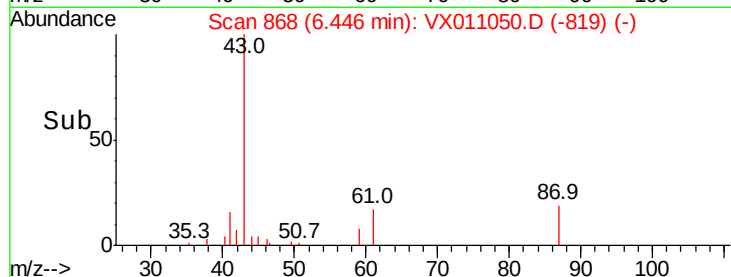
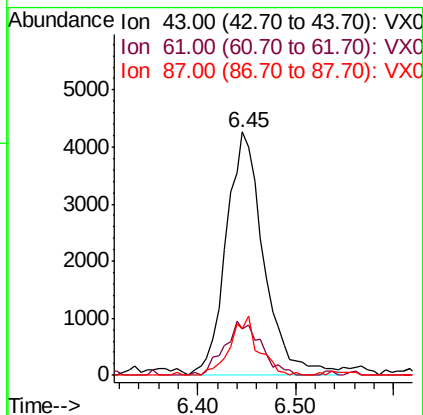
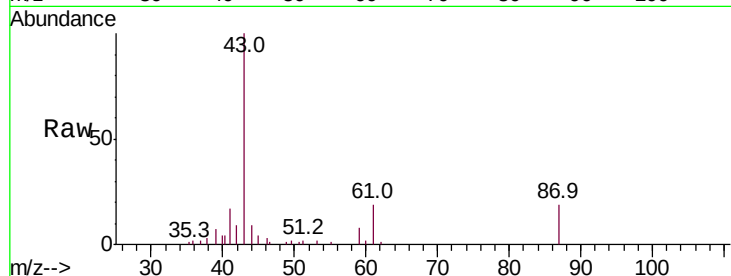
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:	43	Resp:	11397
Ion	Ratio	Lower	Upper
43	100		
61	21.5	17.1	25.7
87	18.0	12.0	18.0

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#44

Trichloroethene

Concen: 2.567 ug/l

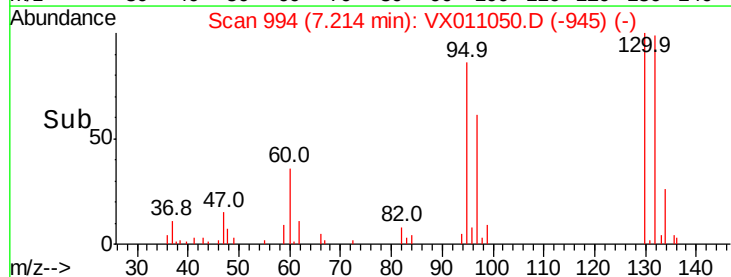
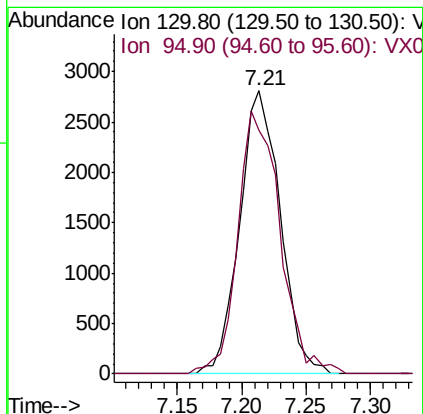
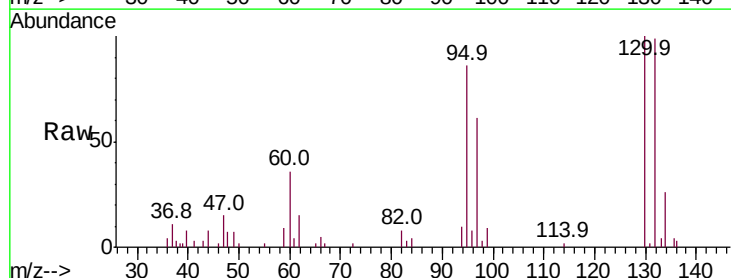
RT: 7.21 min Scan# 994

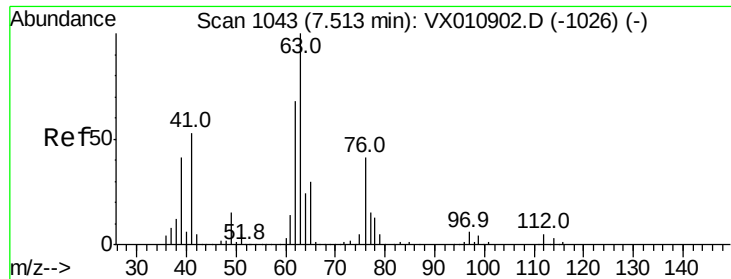
Delta R.T. -0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Tgt Ion:	130	Resp:	6138
Ion	Ratio	Lower	Upper
130	100		
95	86.1	0.0	174.8





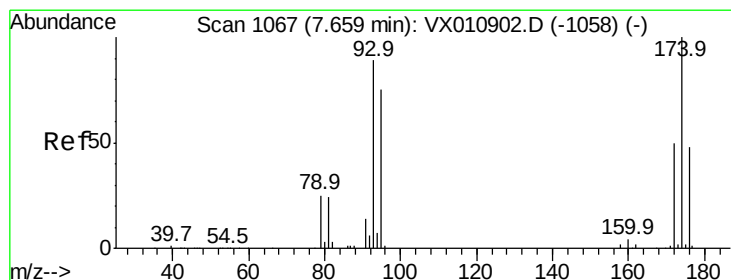
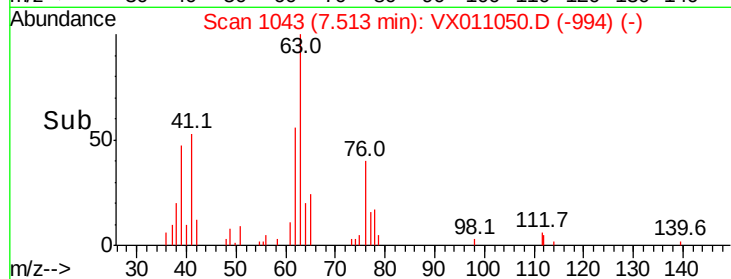
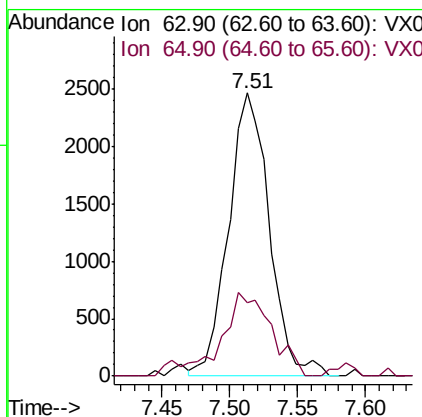
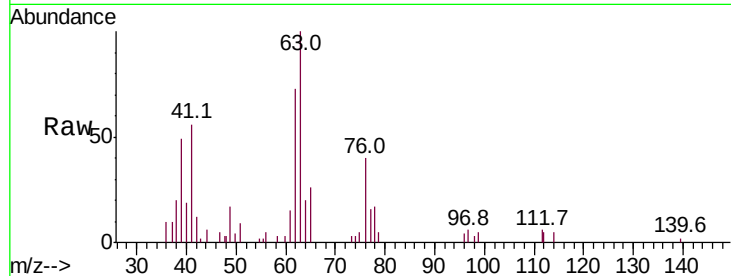
#45
 1,2-Dichloropropane
 Concen: 2.507 ug/l
 RT: 7.51 min Scan# 1043
 Delta R.T. 0.00 min
 Lab File: VX011050.D
 Acq: 23 Jul 2019 11:19

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 63 Resp: 5156
 Ion Ratio Lower Upper
 63 100
 65 23.2 24.4 36.6#

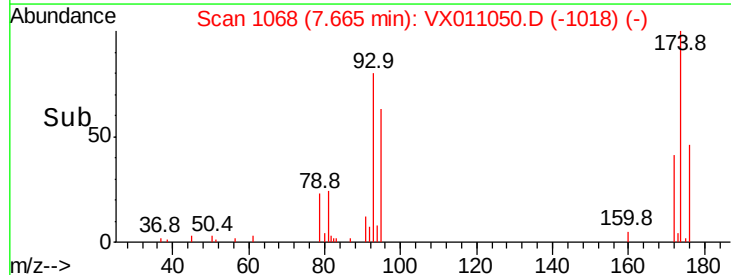
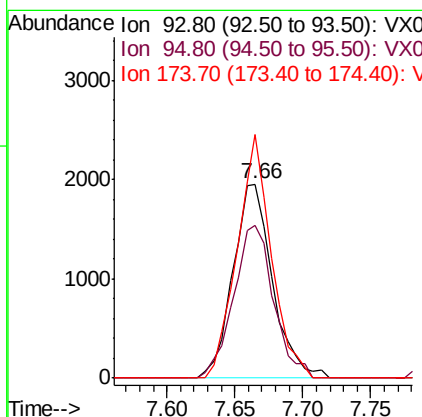
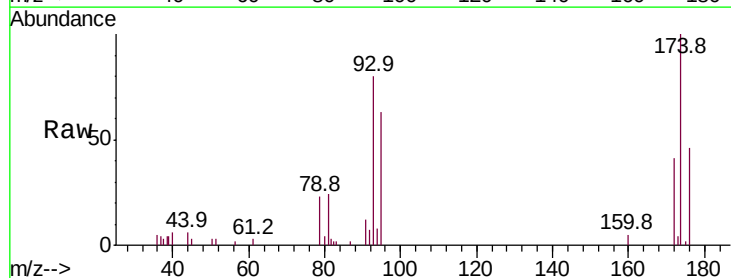
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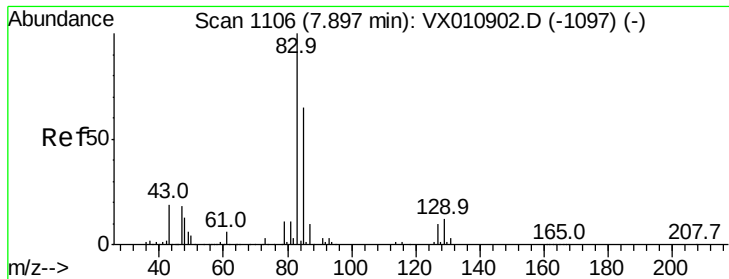
MMDadoda
 7/25/2019 3:06:51 PM



#46
 Dibromomethane
 Concen: 2.698 ug/l
 RT: 7.66 min Scan# 1068
 Delta R.T. 0.01 min
 Lab File: VX011050.D
 Acq: 23 Jul 2019 11:19

Tgt Ion: 93 Resp: 3965
 Ion Ratio Lower Upper
 93 100
 95 79.3 67.2 100.8
 174 108.1 90.6 135.8





#47

Bromodichloromethane

Concen: 2.539 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

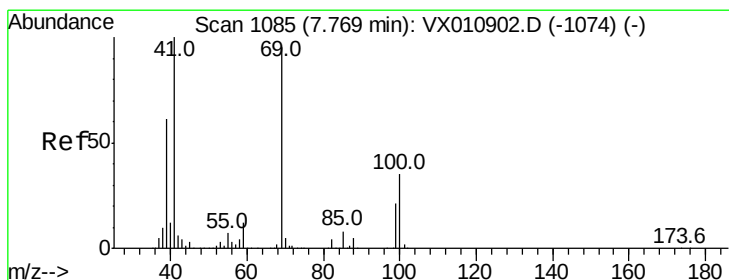
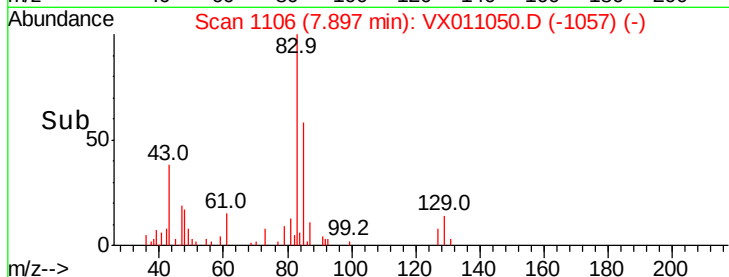
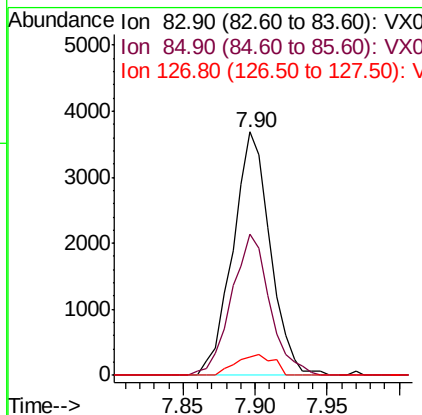
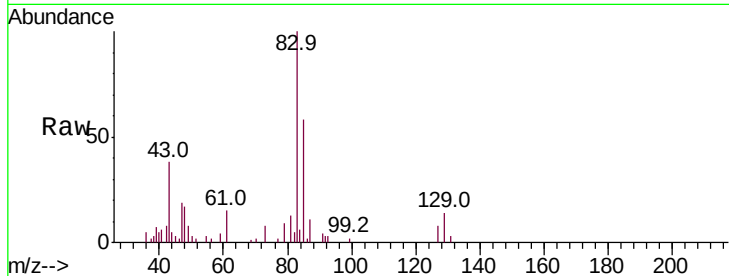
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion	83	Resp	6641
Ion	Ratio	Lower	Upper
83	100		
85	57.7	52.5	78.7
127	7.5	7.8	11.8#

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#48

Methyl methacrylate

Concen: 2.338 ug/l

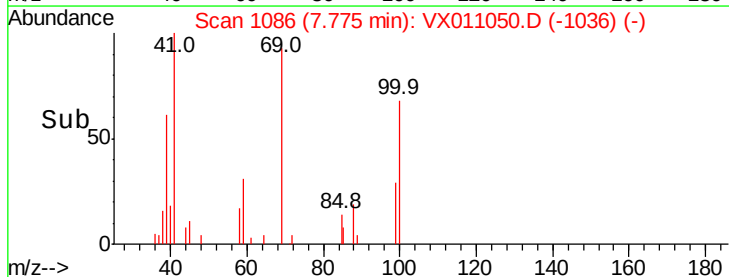
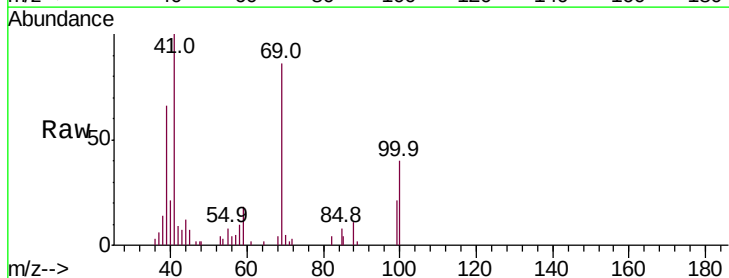
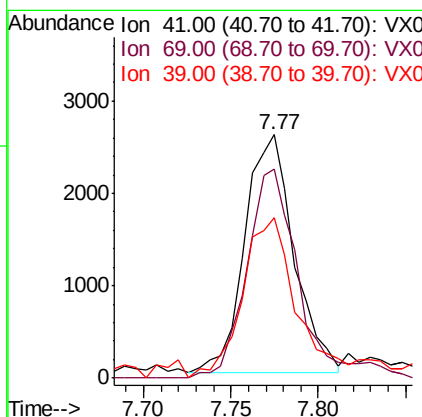
RT: 7.77 min Scan# 1086

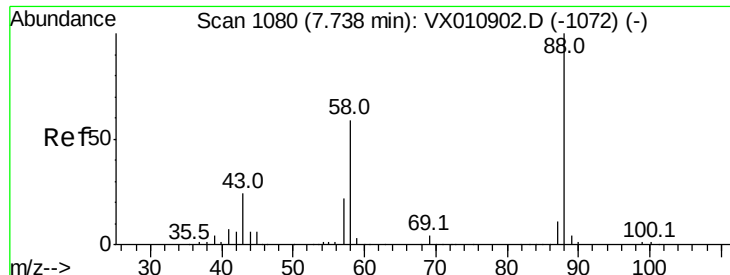
Delta R.T. 0.01 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Tgt Ion	41	Resp	5057
Ion	Ratio	Lower	Upper
41	100		
69	93.8	74.4	111.6
39	73.5	48.9	73.3#





#49

1,4-Dioxane

Concen: 54.550 ug/l

RT: 7.74 min Scan# 1081

Delta R.T. 0.01 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

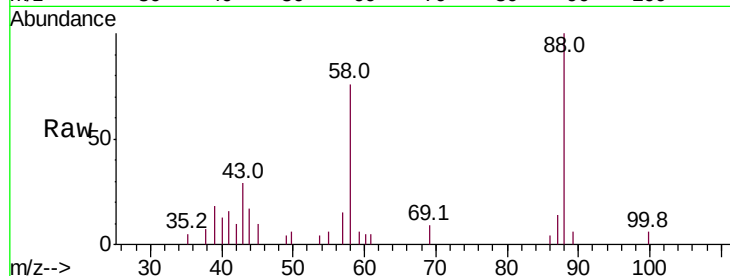
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

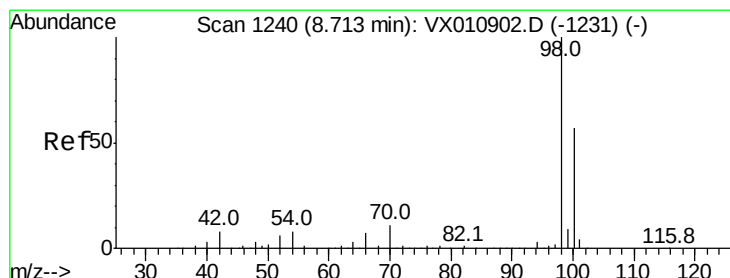
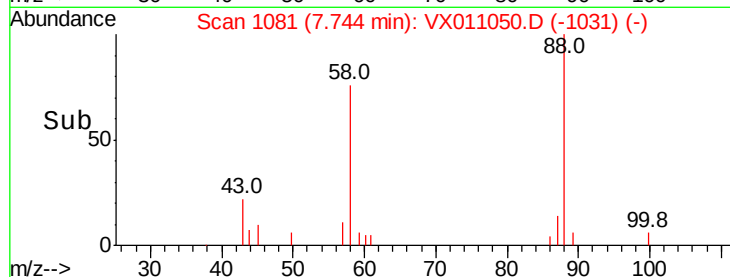
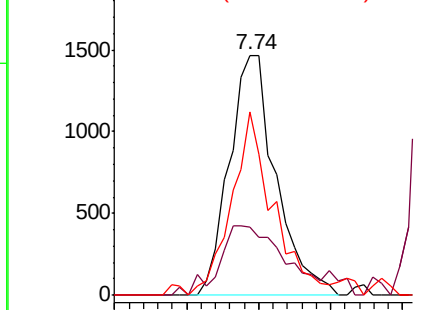
Tot Ion:	88	Resp:	3301
Ion Ratio	Lower	Upper	
88	100		
43	40.2	22.9	34.3#
58	68.2	49.8	74.8

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Abundance Ion 88.00 (87.70 to 88.70): VX0
Ion 43.00 (42.70 to 43.70): VX0
Ion 58.00 (57.70 to 58.70): VX0



#50

Toluene-d8

Concen: 48.432 ug/l

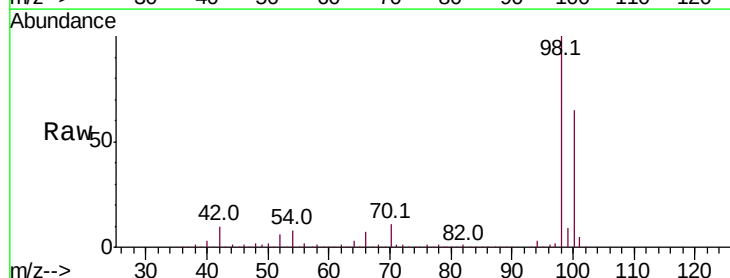
RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

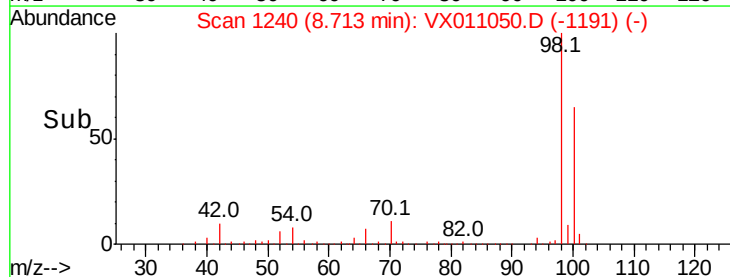
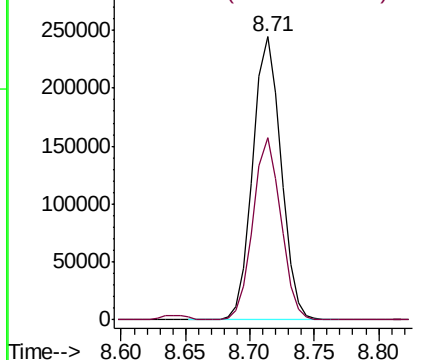
Lab File: VX011050.D

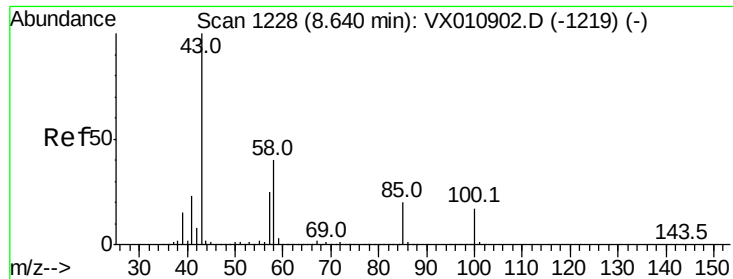
Acq: 23 Jul 2019 11:19

Tgt Ion:	98	Resp:	370211
Ion Ratio	Lower	Upper	
98	100		
100	63.6	50.6	75.8



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): V





#51

4-Methyl-2-Pentanone

Concen: 13.049 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 43 Resp: 37565

Ion Ratio Lower Upper

43 100

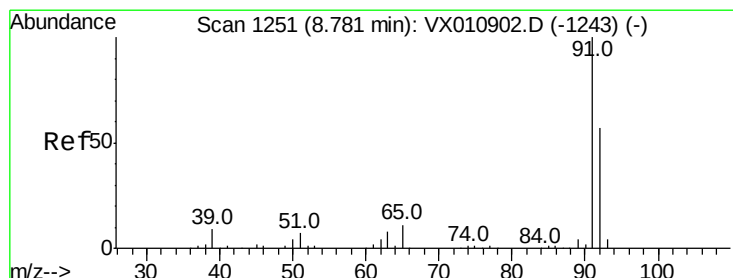
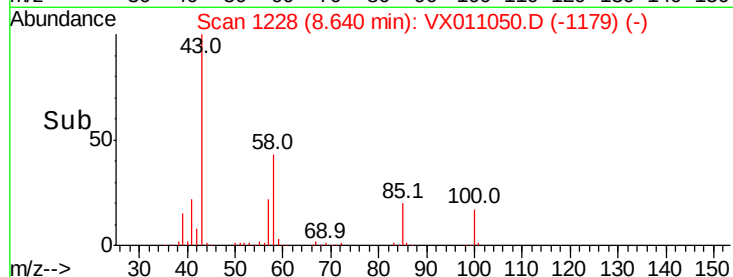
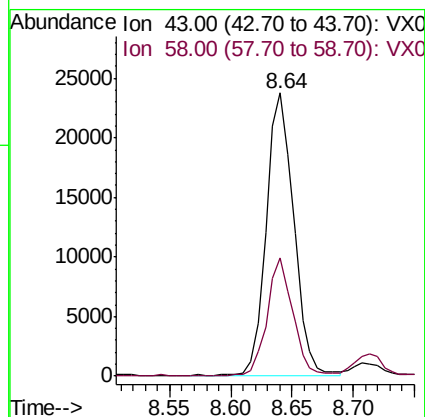
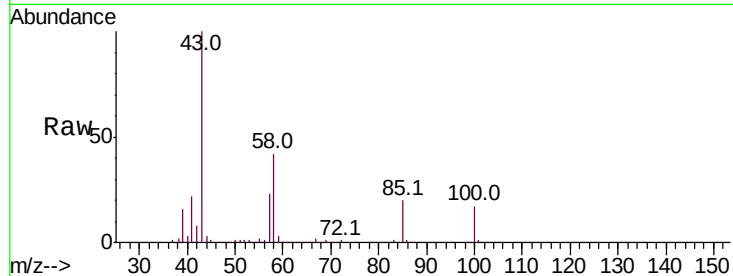
58 38.9 32.2 48.4

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#52

Toluene

Concen: 2.516 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX011050.D

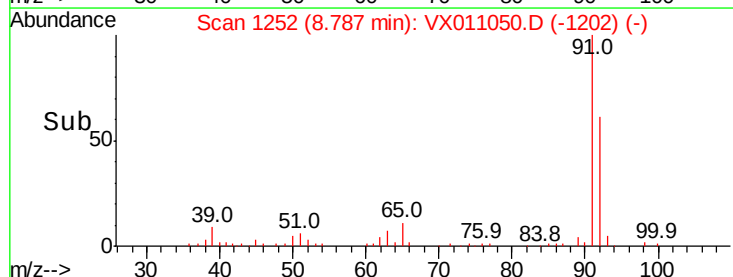
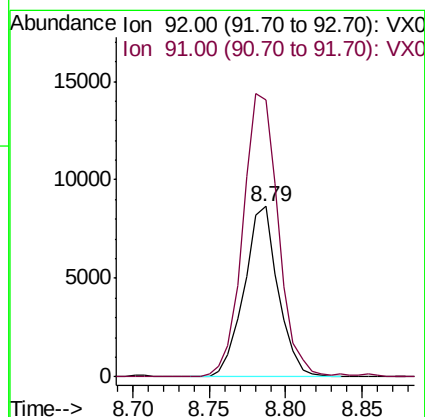
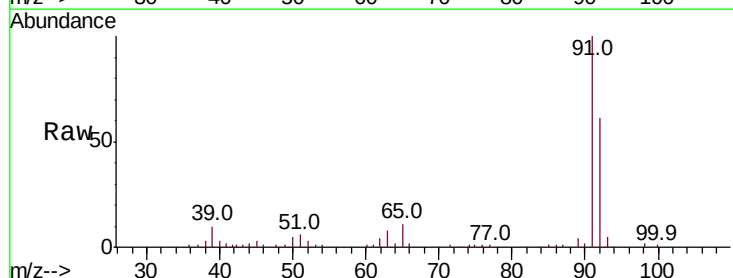
Acq: 23 Jul 2019 11:19

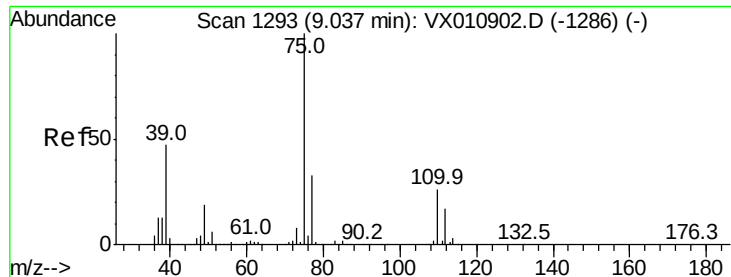
Tgt Ion: 92 Resp: 13351

Ion Ratio Lower Upper

92 100

91 174.2 139.4 209.0





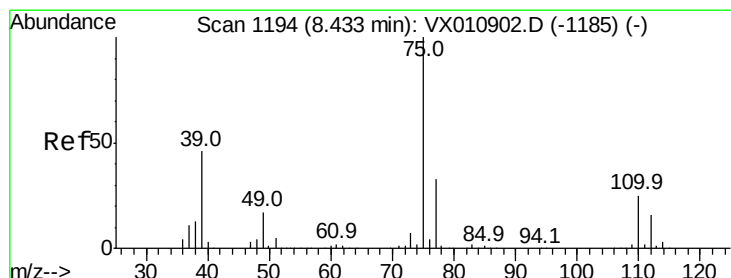
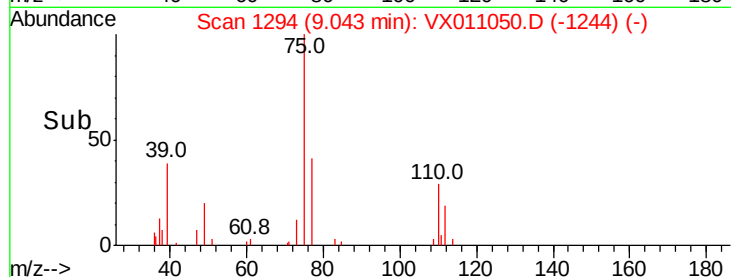
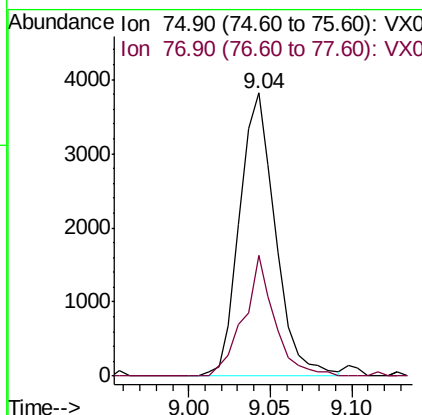
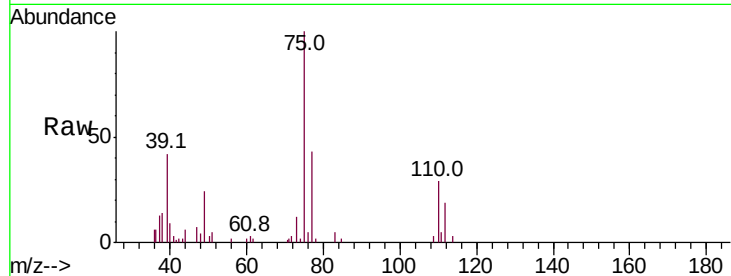
#53
 t-1,3-Dichloropropene
 Concen: 2.077 ug/l
 RT: 9.04 min Scan# 1294
 Delta R.T. 0.01 min
 Lab File: VX011050.D
 Acq: 23 Jul 2019 11:19

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 75 Resp: 5842
 Ion Ratio Lower Upper
 75 100
 77 42.9 26.2 39.2#

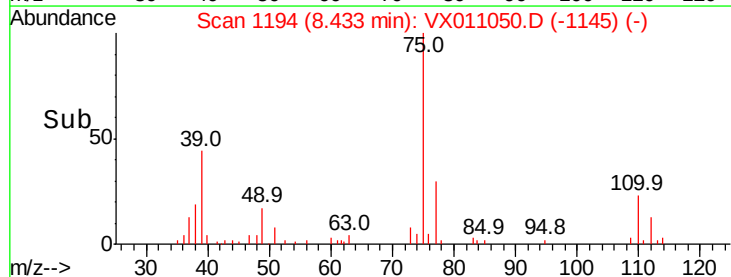
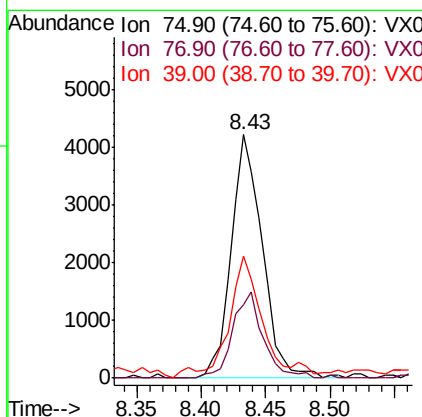
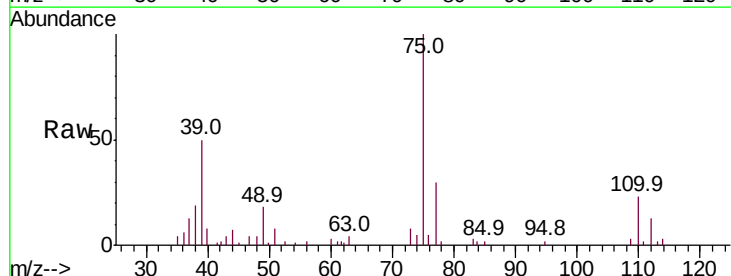
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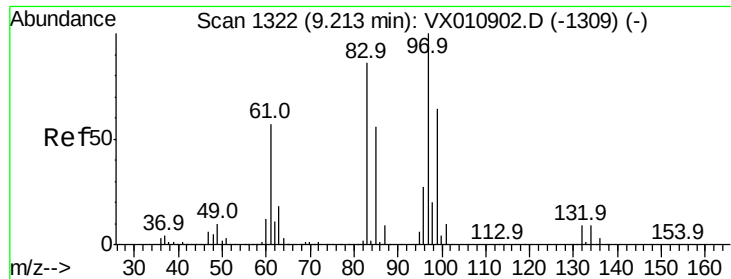
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#54
 cis-1,3-Dichloropropene
 Concen: 2.281 ug/l
 RT: 8.43 min Scan# 1194
 Delta R.T. 0.00 min
 Lab File: VX011050.D
 Acq: 23 Jul 2019 11:19

Tgt Ion: 75 Resp: 7138
 Ion Ratio Lower Upper
 75 100
 77 30.4 26.1 39.1
 39 46.7 36.6 54.8





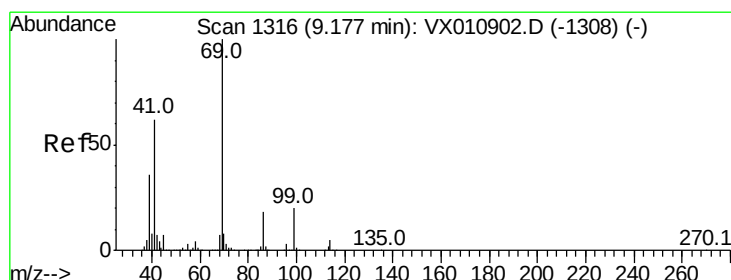
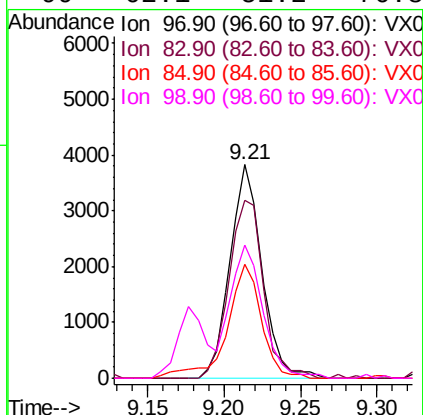
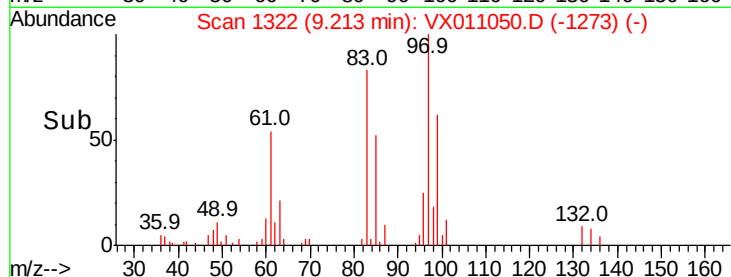
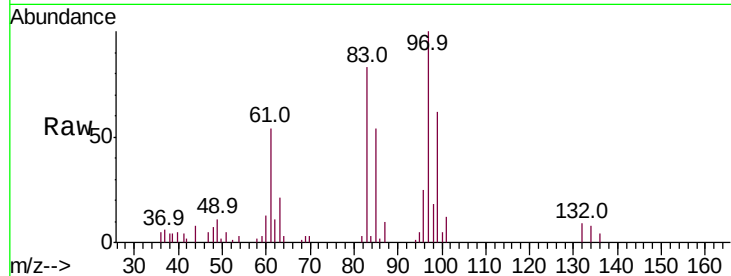
#55
 1,1,2-Trichloroethane
 Concen: 2.545 ug/l
 RT: 9.21 min Scan# 1322
 Delta R.T. 0.00 min
 Lab File: VX011050.D
 Acq: 23 Jul 2019 11:19

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:	97	Resp:	5562
Ion	Ratio	Lower	Upper
97	100		
83	83.4	69.2	103.8
85	53.6	44.6	66.8
99	62.1	51.2	76.8

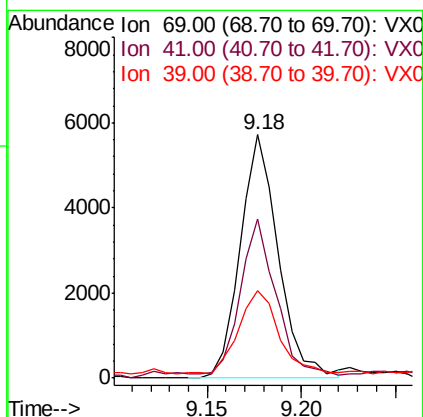
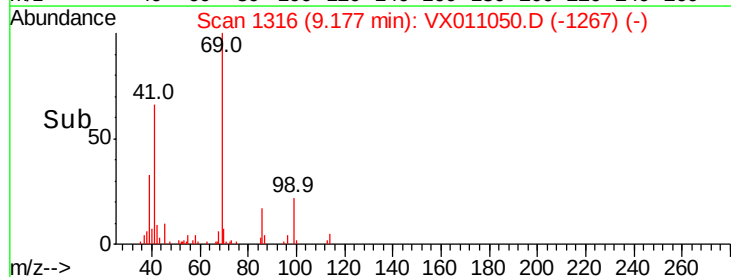
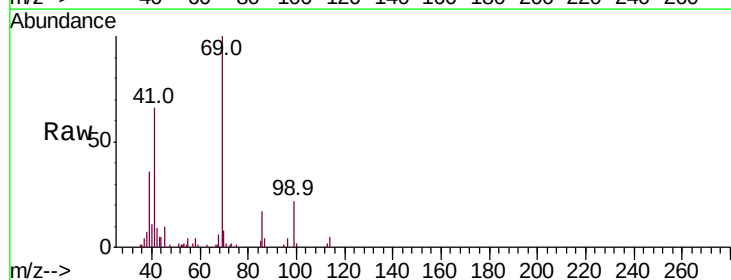
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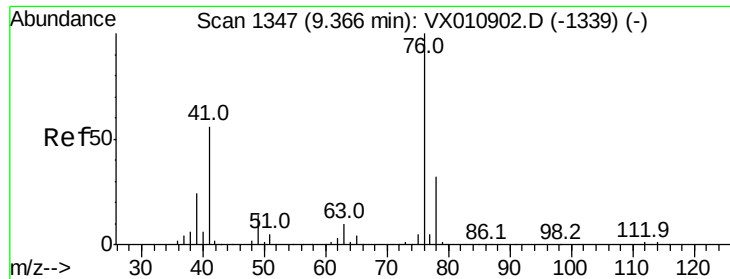
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#56
 Ethyl methacrylate
 Concen: 2.508 ug/l
 RT: 9.18 min Scan# 1316
 Delta R.T. 0.00 min
 Lab File: VX011050.D
 Acq: 23 Jul 2019 11:19

Tgt Ion:	69	Resp:	8017
Ion	Ratio	Lower	Upper
69	100		
41	58.8	49.7	74.5
39	35.2	29.6	44.4





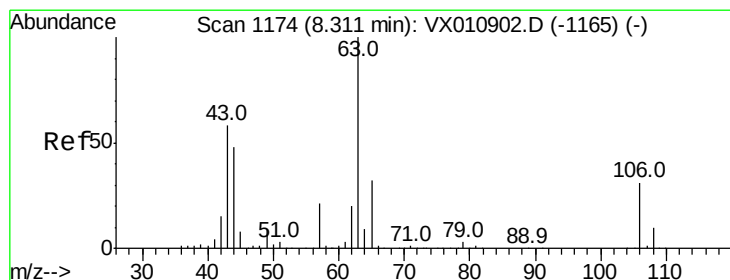
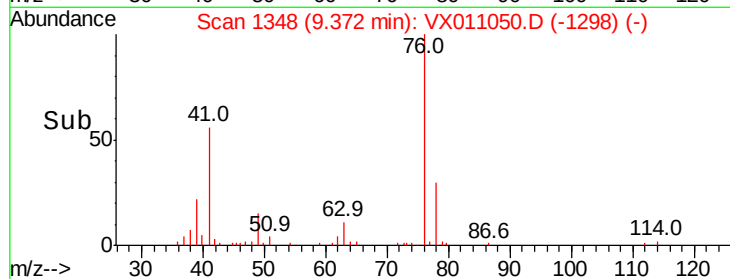
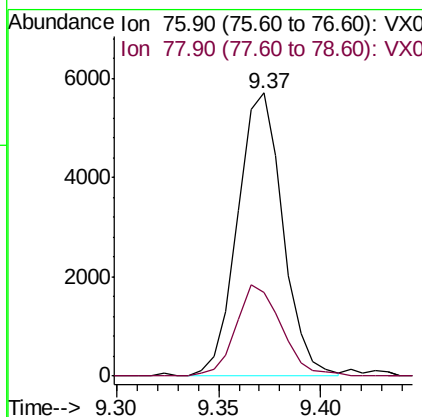
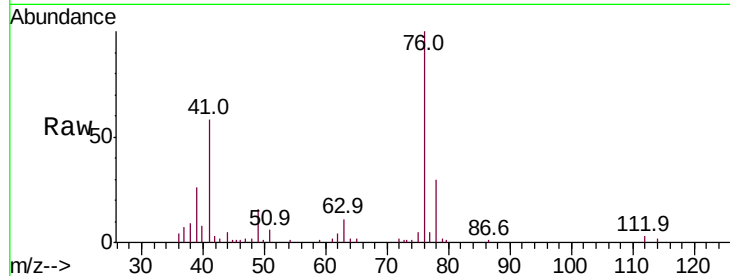
#57
 1,3-Dichloropropane
 Concen: 2.535 ug/l
 RT: 9.37 min Scan# 1348
 Delta R.T. 0.01 min
 Lab File: VX011050.D
 Acq: 23 Jul 2019 11:19

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 76 Resp: 8787
 Ion Ratio Lower Upper
 76 100
 78 32.5 25.6 38.4

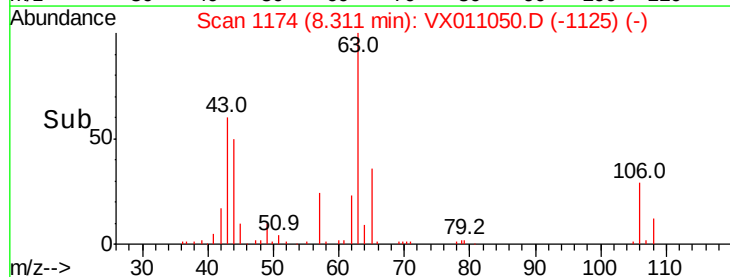
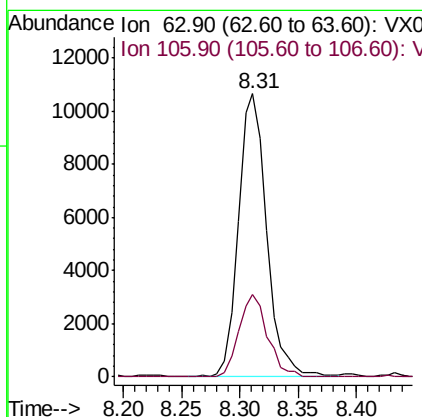
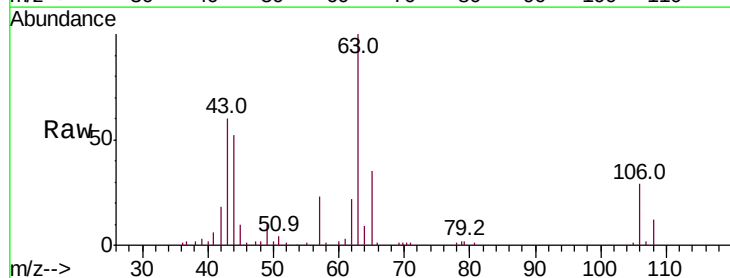
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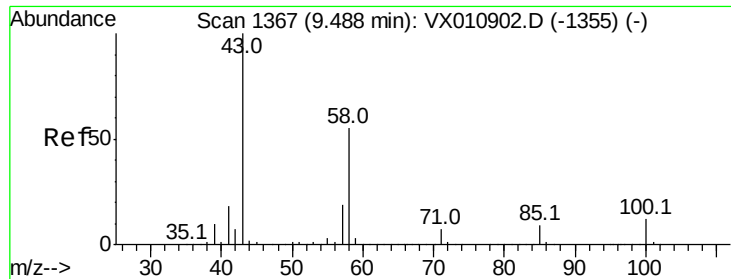
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#58
 2-Chloroethyl Vinyl ether
 Concen: 11.820 ug/l
 RT: 8.31 min Scan# 1174
 Delta R.T. 0.00 min
 Lab File: VX011050.D
 Acq: 23 Jul 2019 11:19

Tgt Ion: 63 Resp: 18036
 Ion Ratio Lower Upper
 63 100
 106 29.3 24.0 36.0





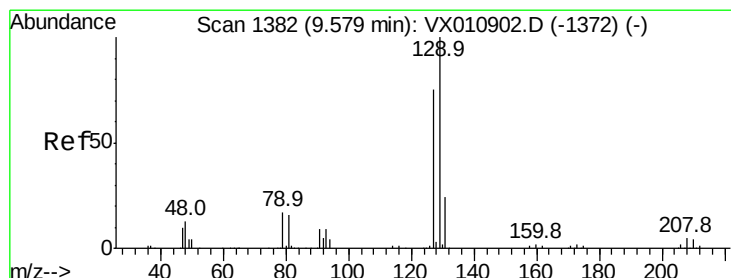
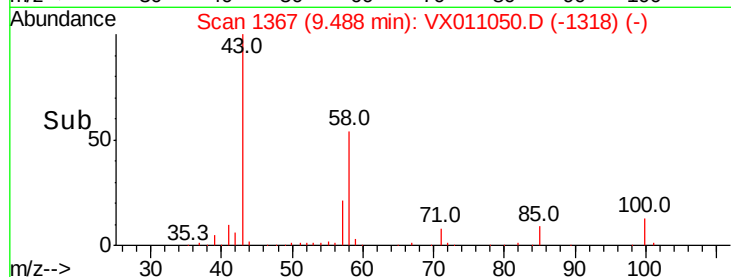
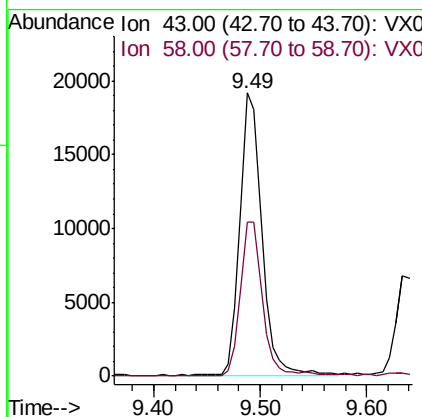
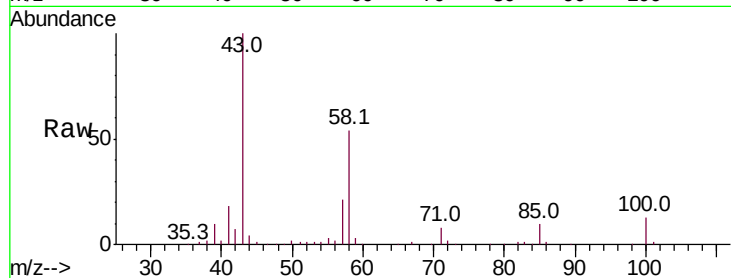
#59
2-Hexanone
Concen: 12.519 ug/l
RT: 9.49 min Scan# 1367
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 43 Resp: 27951
Ion Ratio Lower Upper
43 100
58 55.3 28.0 83.9

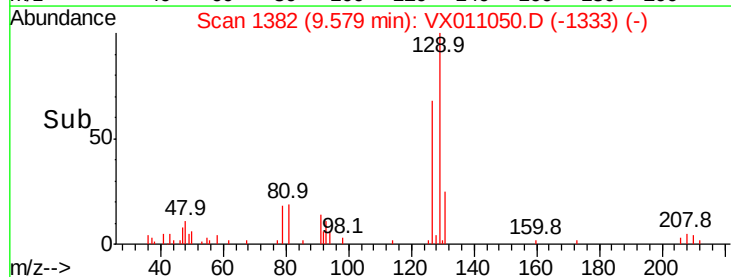
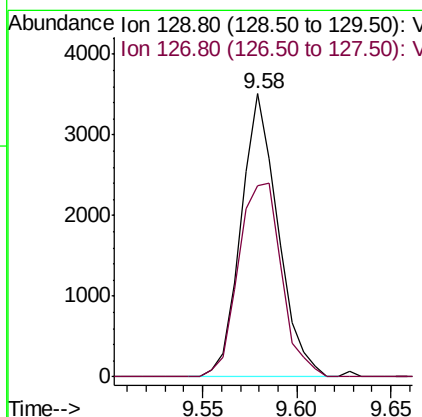
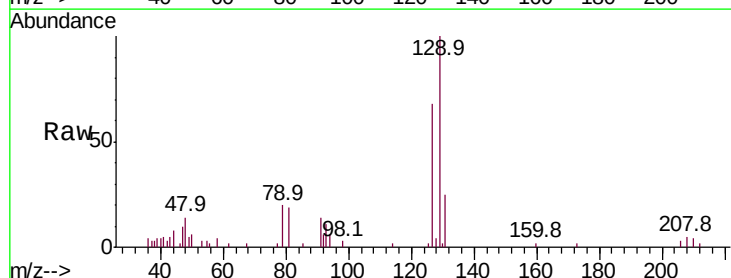
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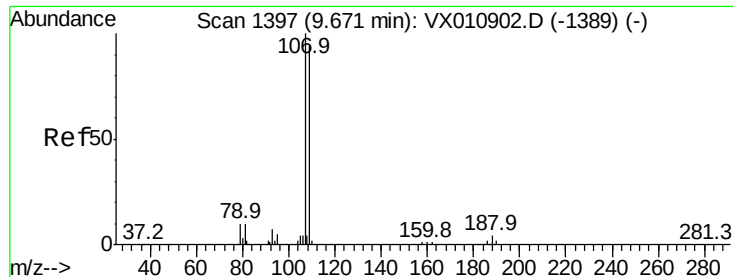
MMDadoda
7/25/2019 3:06:51 PM



#60
Dibromochloromethane
Concen: 2.159 ug/l
RT: 9.58 min Scan# 1382
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Tgt Ion: 129 Resp: 4777
Ion Ratio Lower Upper
129 100
127 79.9 38.6 115.8





#61

1,2-Dibromoethane

Concen: 2.484 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:107 Resp: 5761

Ion Ratio Lower Upper

107 100

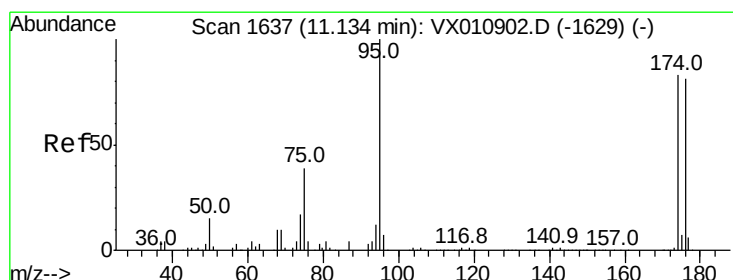
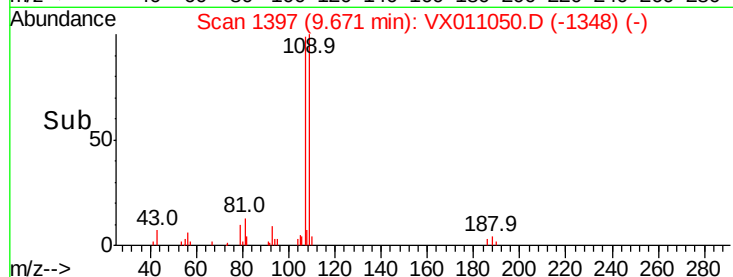
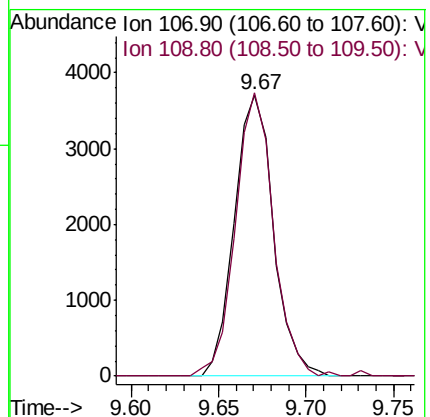
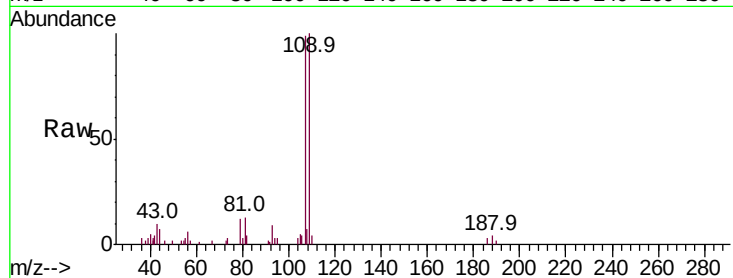
109 97.8 75.4 113.0

Manual Integrations

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MMDadoda

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#62

4-Bromofluorobenzene

Concen: 46.616 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

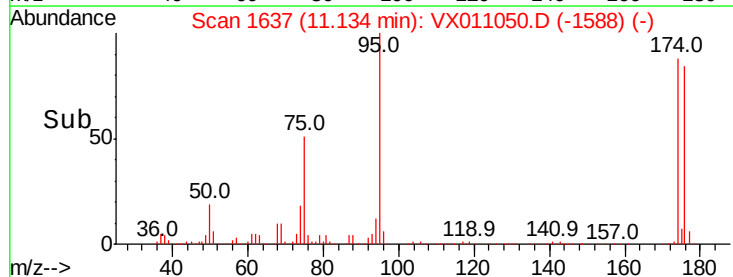
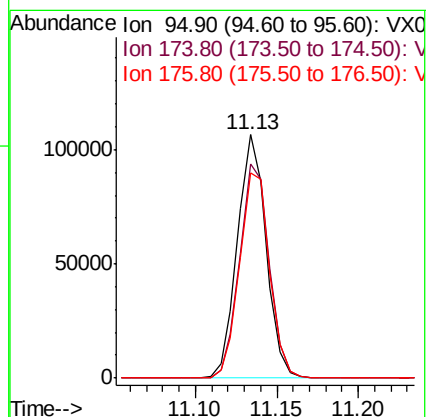
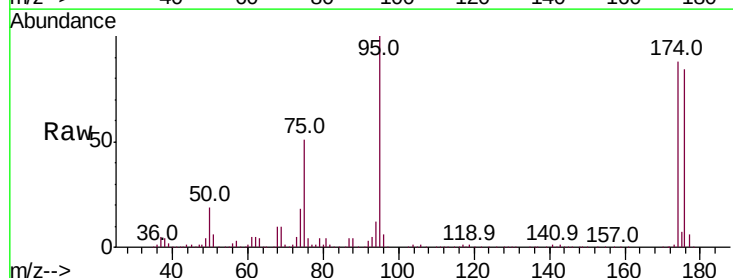
Tgt Ion: 95 Resp: 130976

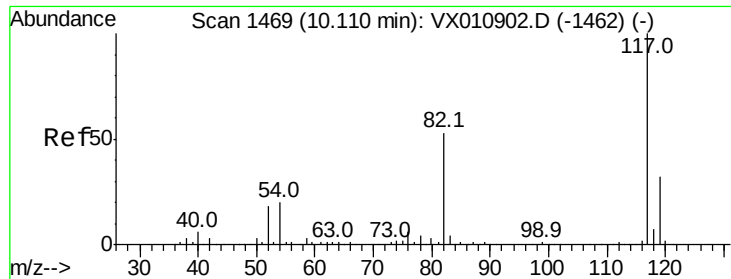
Ion Ratio Lower Upper

95 100

174 91.1 0.0 180.6

176 88.5 0.0 173.8





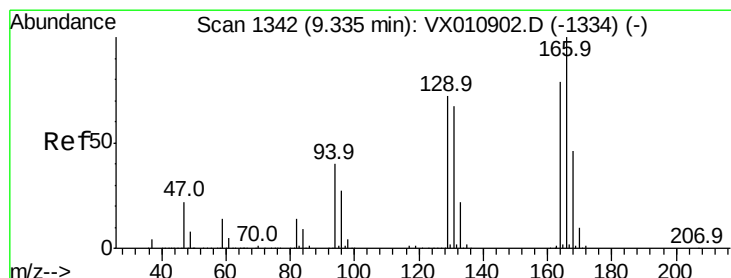
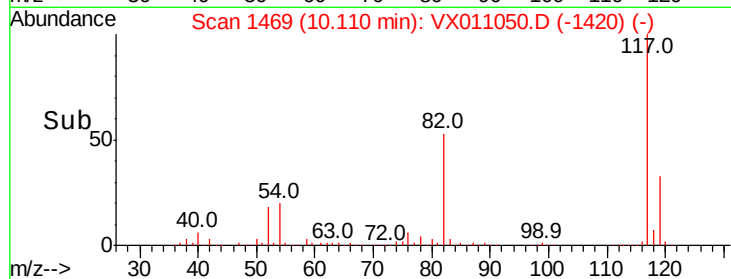
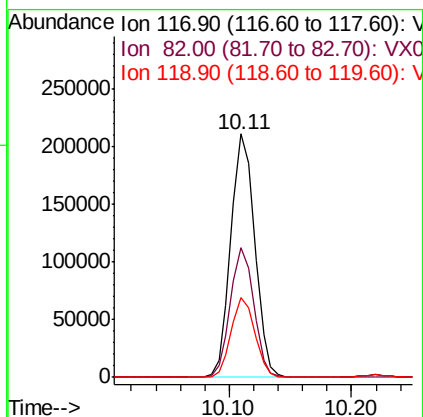
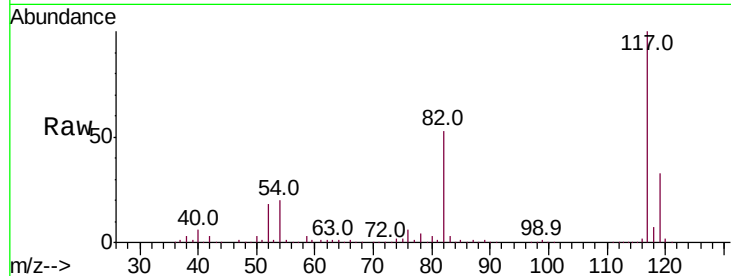
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion	Ratio	Resp	Lower	Upper
117	100	285696		
82	53.3	42.6	63.8	
119	32.6	25.9	38.9	

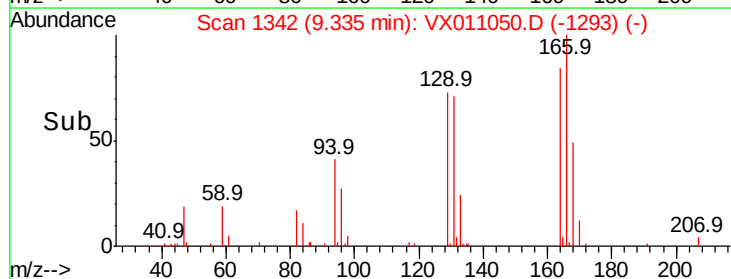
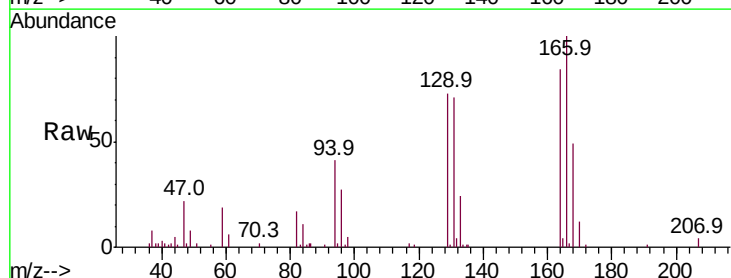
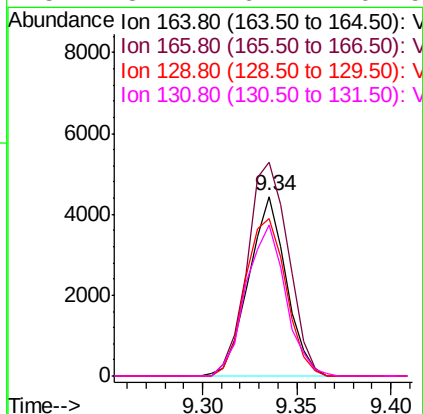
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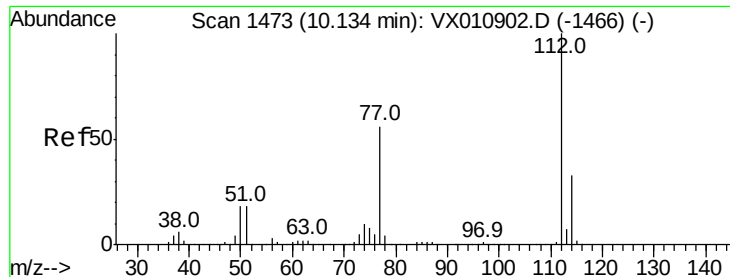
MMDadoda
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#64
Tetrachloroethene
Concen: 2.723 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	6119		
166	118.9	100.8	151.2	
129	87.4	72.6	109.0	
131	84.2	67.7	101.5	





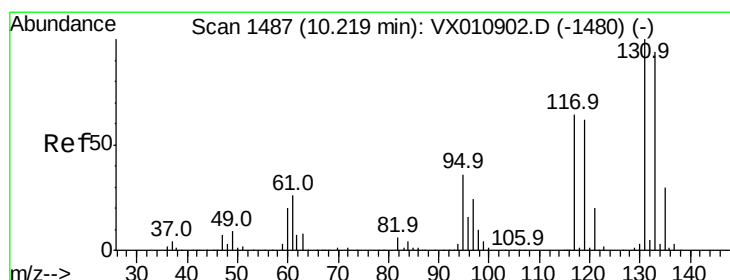
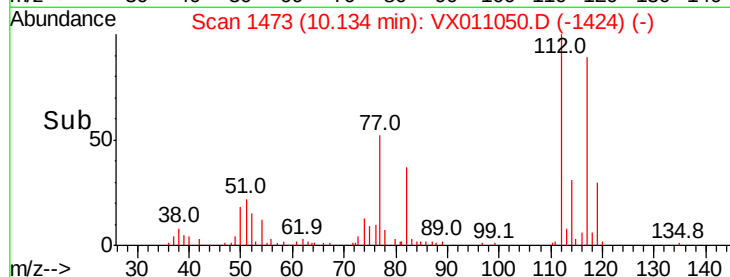
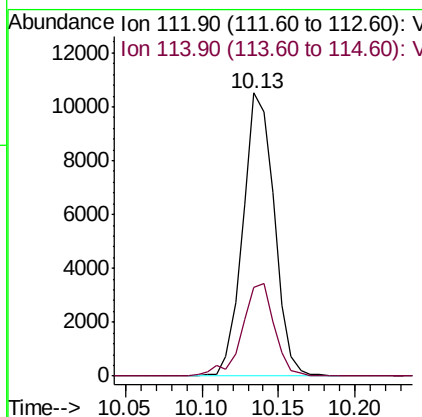
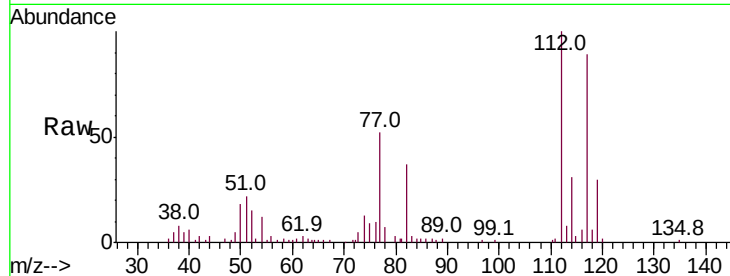
#65
Chlorobenzene
Concen: 2.549 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:112 Resp: 14958
Ion Ratio Lower Upper
112 100
114 31.4 26.2 39.4

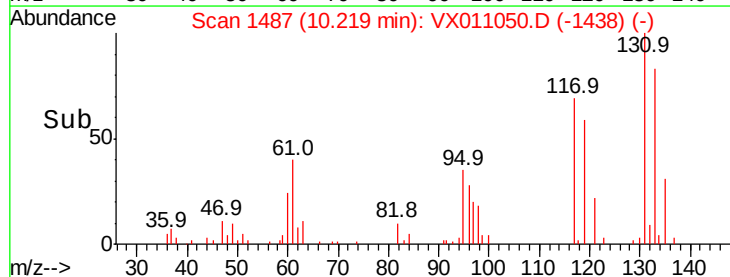
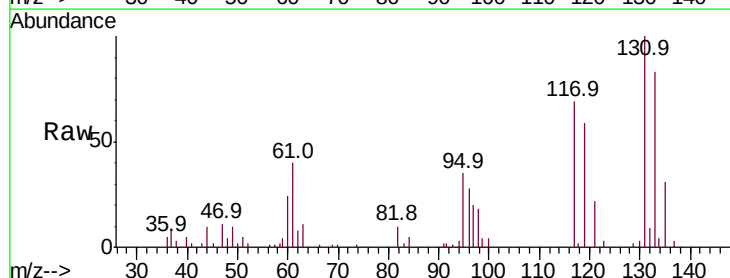
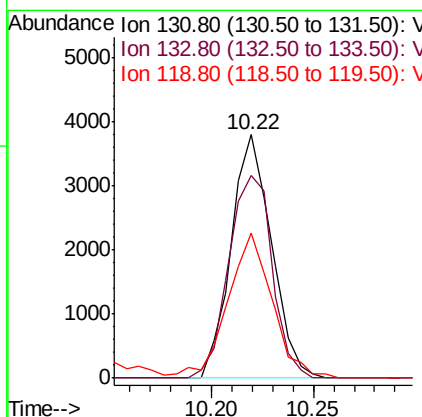
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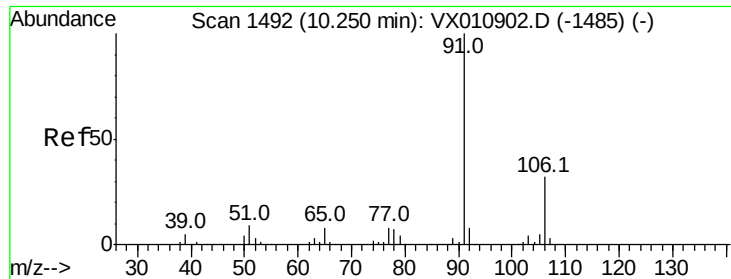
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#66
1,1,1,2-Tetrachloroethane
Concen: 2.524 ug/l
RT: 10.22 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Tgt Ion:131 Resp: 5205
Ion Ratio Lower Upper
131 100
133 89.7 47.1 141.4
119 65.9 31.9 95.7





#67

Ethyl Benzene

Concen: 2.537 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 91 Resp: 25336

Ion Ratio Lower Upper

91 100

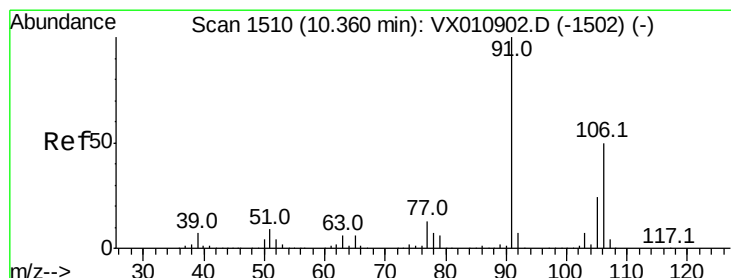
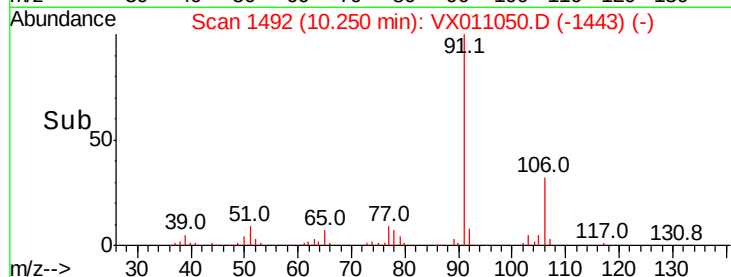
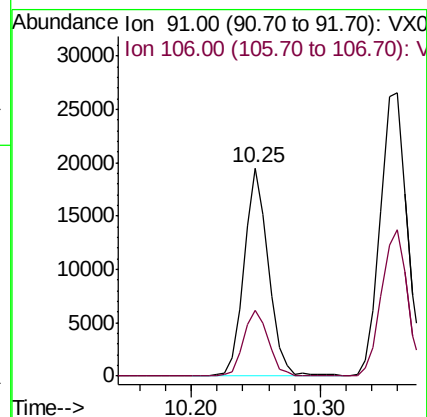
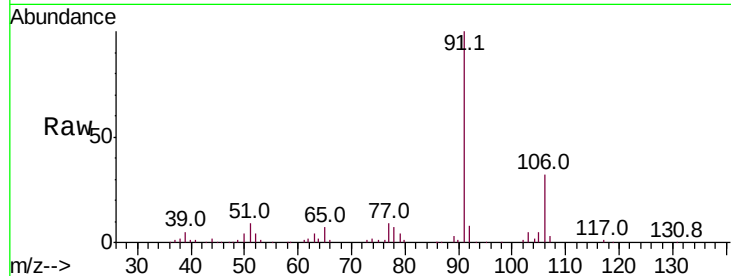
106 31.6 25.4 38.2

Manual Integrations

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#68

m/p-Xylenes

Concen: 5.009 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX011050.D

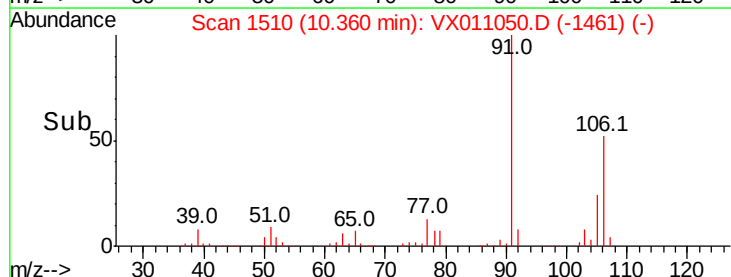
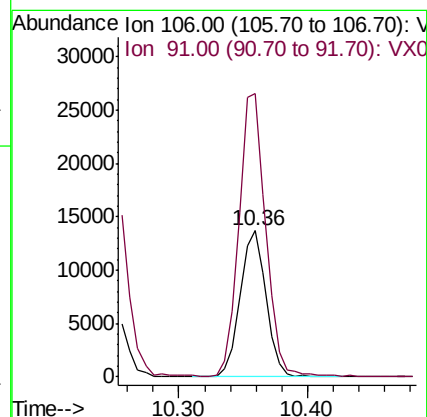
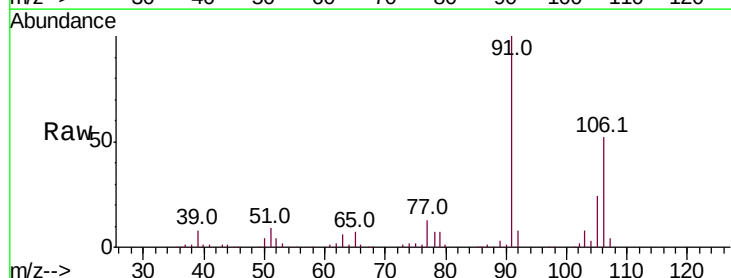
Acq: 23 Jul 2019 11:19

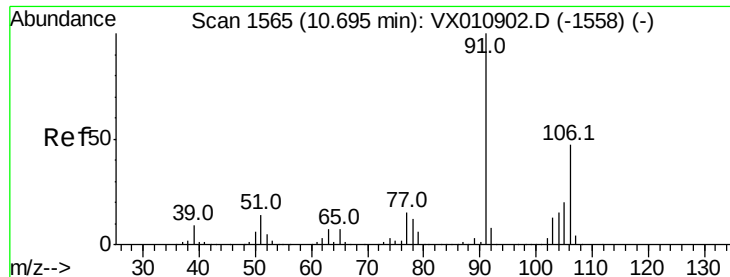
Tgt Ion: 106 Resp: 19190

Ion Ratio Lower Upper

106 100

91 200.3 160.1 240.1





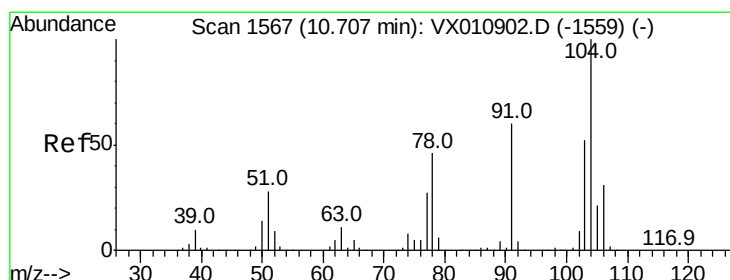
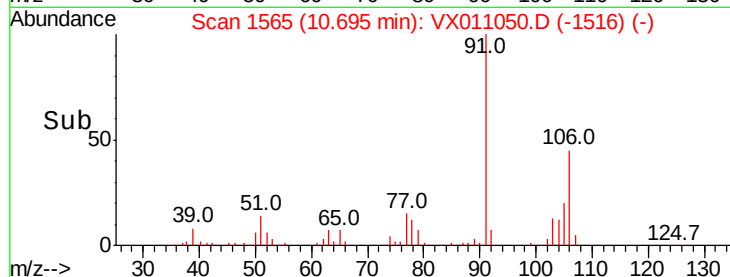
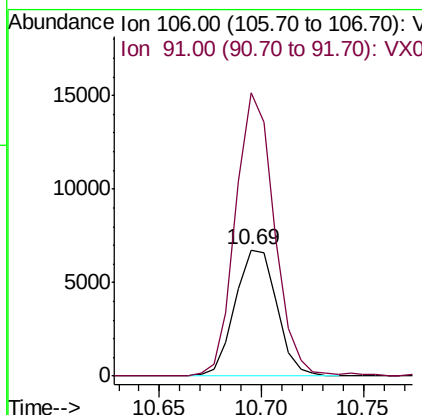
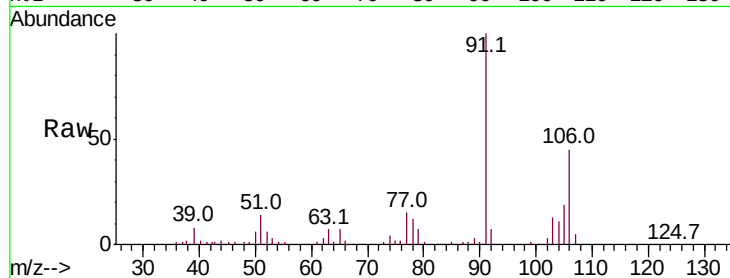
#69
o-Xylene
Concen: 2.562 ug/l
RT: 10.69 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:106 Resp: 9580
Ion Ratio Lower Upper
106 100
91 209.9 105.1 315.3

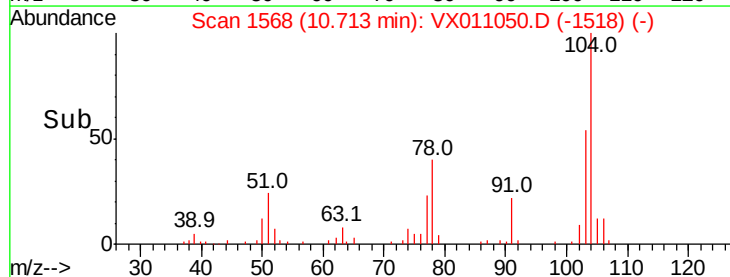
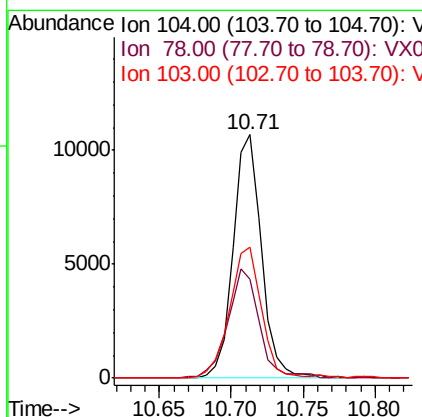
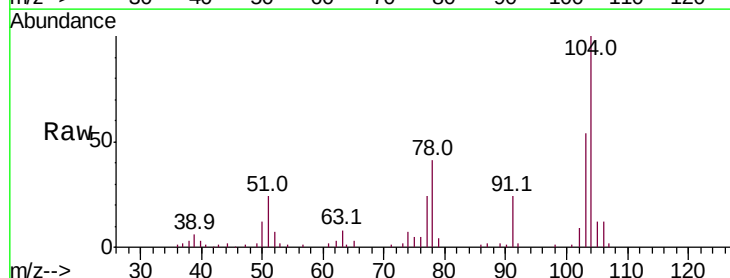
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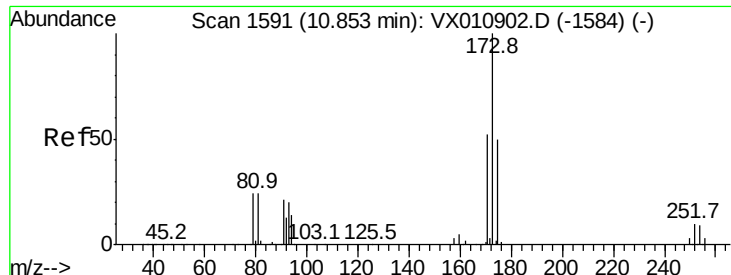
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#70
Styrene
Concen: 2.366 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.01 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Tgt Ion:104 Resp: 14750
Ion Ratio Lower Upper
104 100
78 50.0 38.8 58.2
103 59.9 44.2 66.4





#71

Bromoform

Concen: 2.066 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:173 Resp: 3399

Ion Ratio Lower Upper

173 100

175 51.1 24.6 73.6

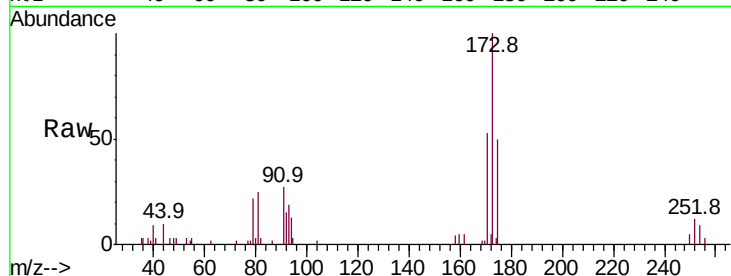
254 0.0 0.1 0.1#

Manual Integrations

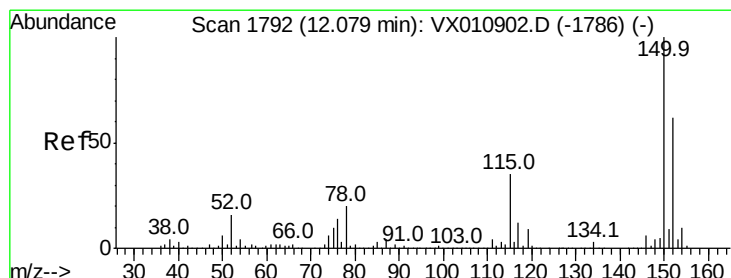
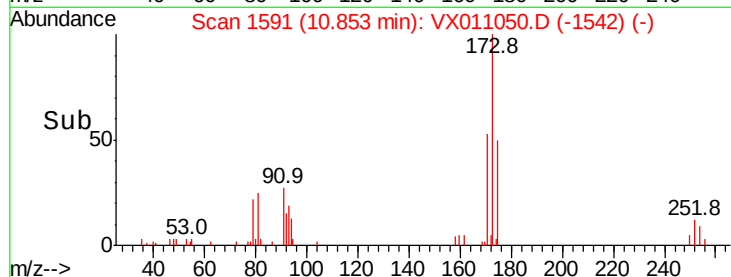
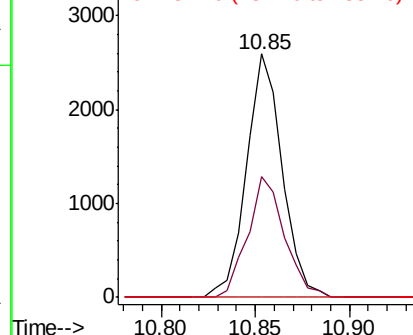
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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

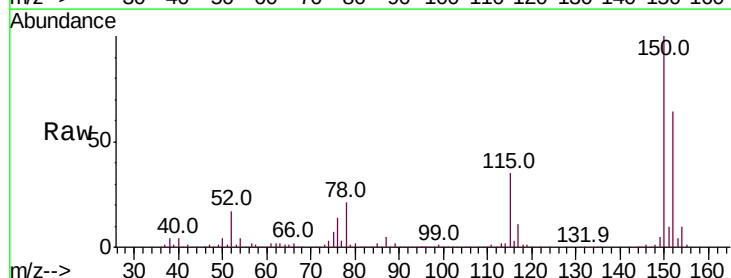
Tgt Ion:152 Resp: 141778

Ion Ratio Lower Upper

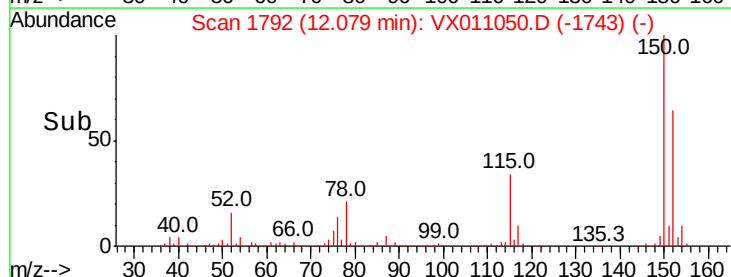
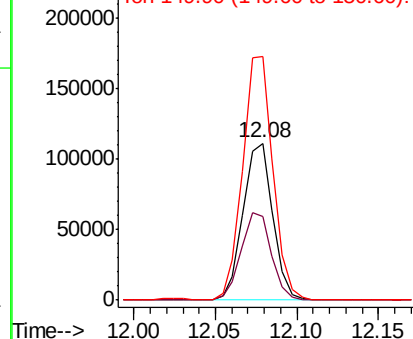
152 100

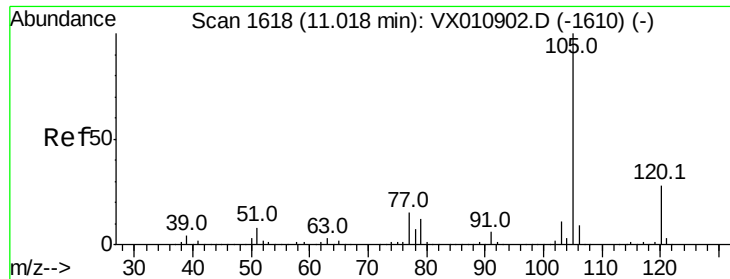
115 56.9 39.7 119.1

150 157.9 0.0 345.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





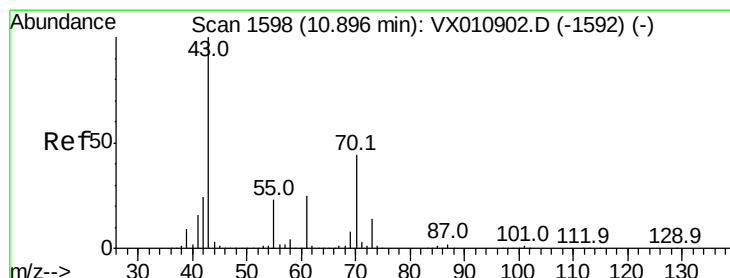
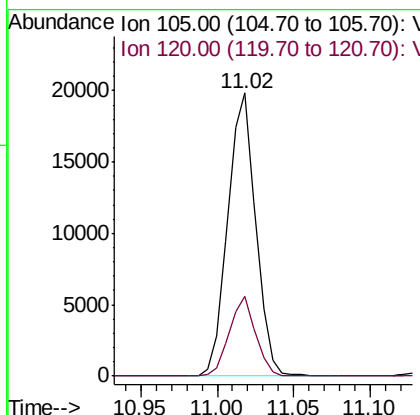
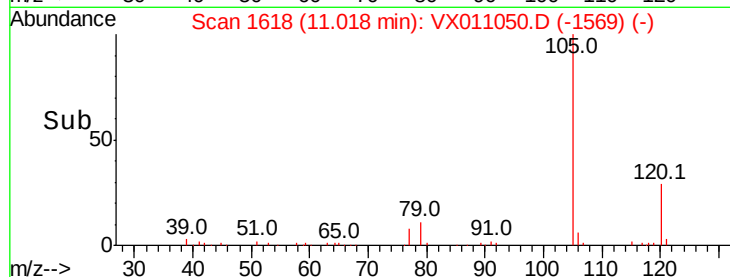
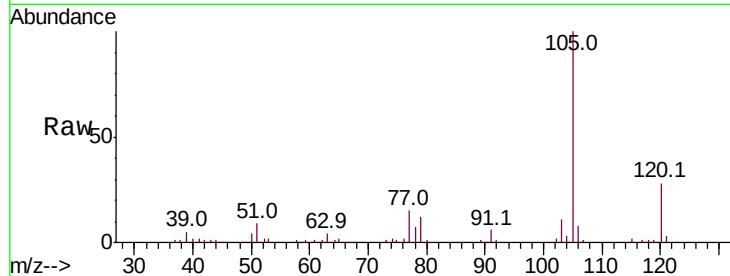
#73
Isopropylbenzene
Concen: 2.619 ug/l
RT: 11.02 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:105 Resp: 25092
Ion Ratio Lower Upper
105 100
120 26.4 13.7 41.1

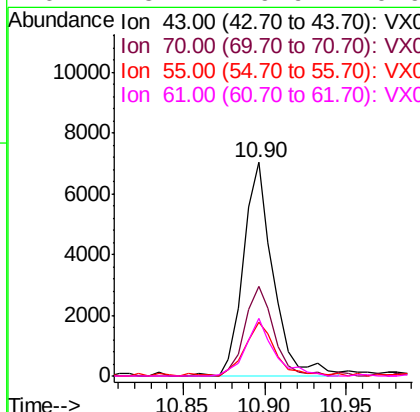
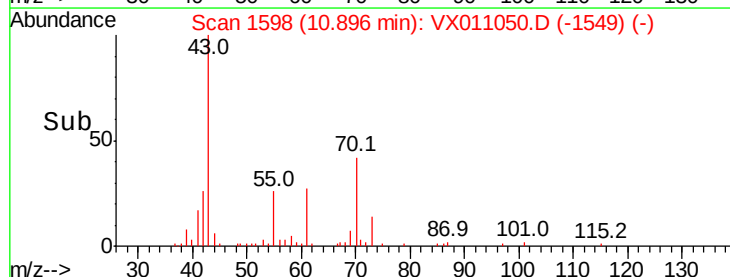
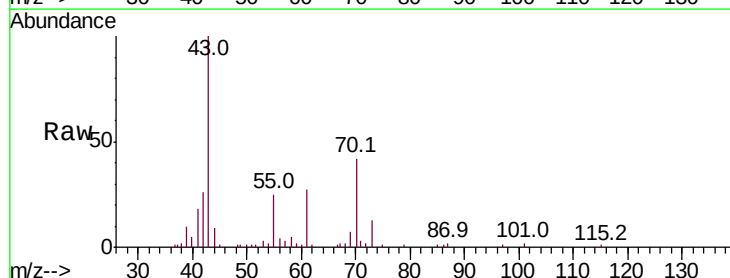
Manual Integrations
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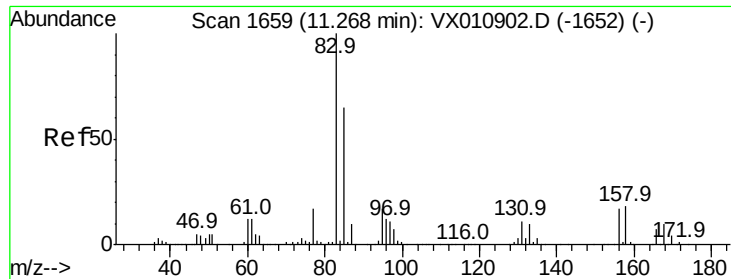
MMDadoda
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#74
N-ethyl acetate
Concen: 2.439 ug/l
RT: 10.90 min Scan# 1598
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Tgt Ion: 43 Resp: 8929
Ion Ratio Lower Upper
43 100
70 40.8 34.7 52.1
55 26.2 19.1 28.7
61 25.7 19.9 29.9





#75

1,1,2,2-Tetrachloroethane

Concen: 2.670 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

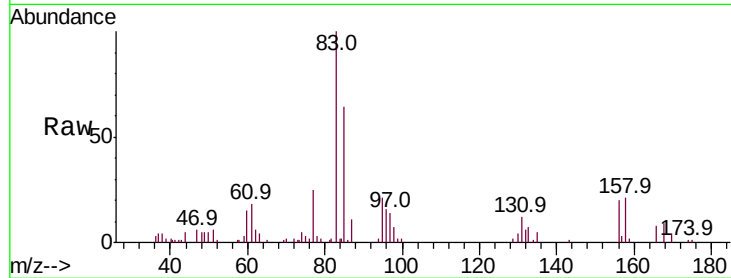
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

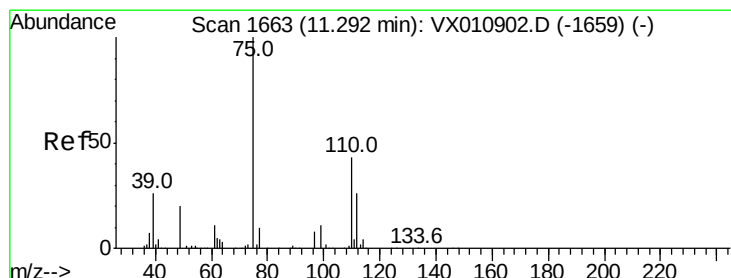
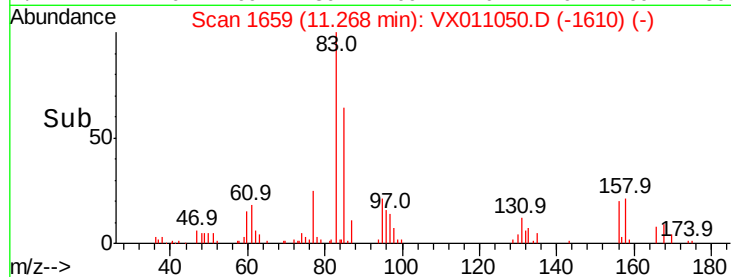
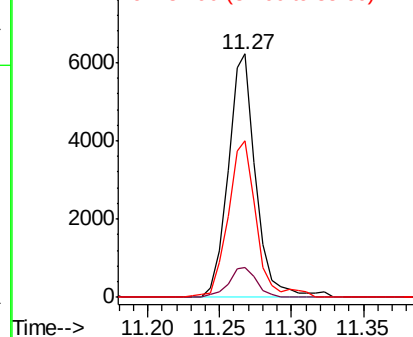
Tot Ion:	83	Resp:	8371
Ion	Ratio	Lower	Upper
83	100		
131	12.2	5.5	16.4
85	66.1	32.3	96.9

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 2.701 ug/l m

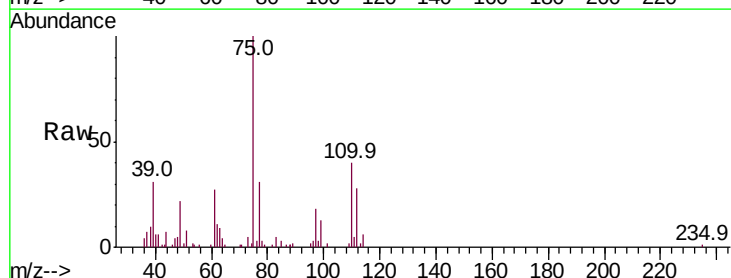
RT: 11.29 min Scan# 1663

Delta R.T. 0.00 min

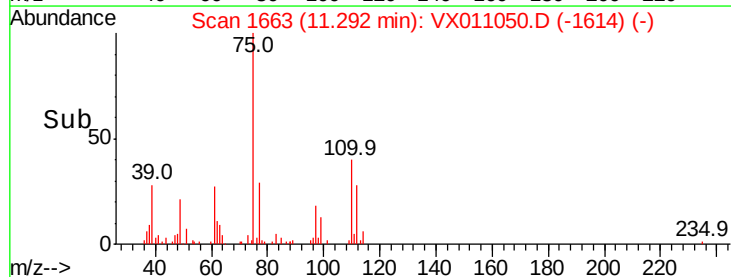
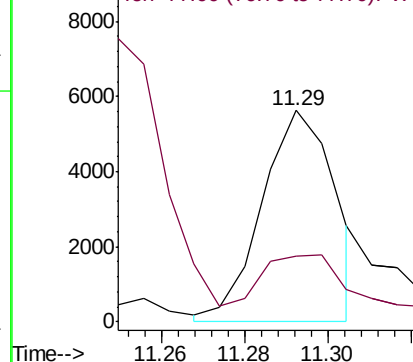
Lab File: VX011050.D

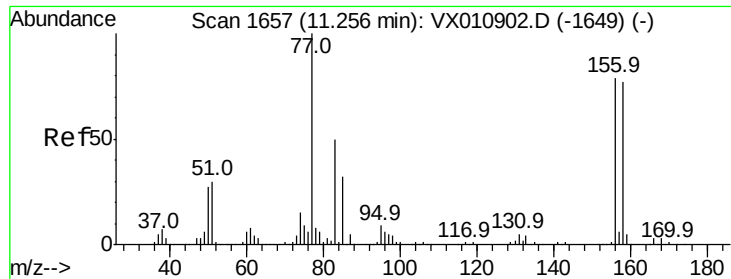
Acq: 23 Jul 2019 11:19

Tgt Ion:	75	Resp:	6911
Ion	Ratio	Lower	Upper
75	100		
77	44.0	21.3	64.0



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





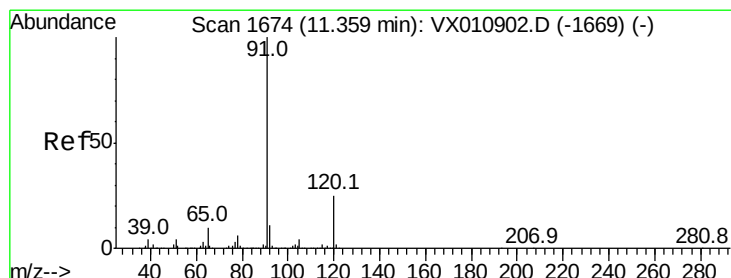
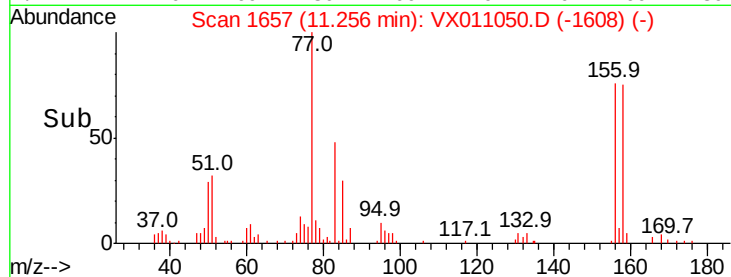
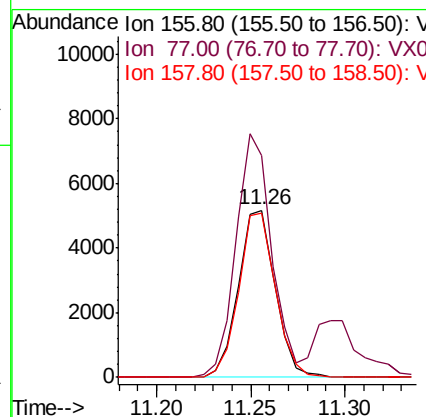
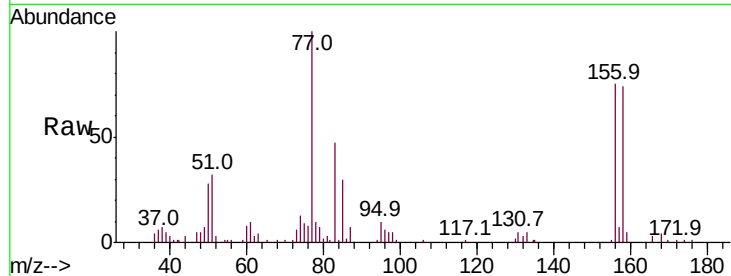
#77
 Bromobenzene
 Concen: 2.661 ug/l
 RT: 11.26 min Scan# 1657
 Delta R.T. 0.00 min
 Lab File: VX011050.D
 Acq: 23 Jul 2019 11:19

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion	Ratio	Lower	Upper
156	100		
77	140.4	68.7	206.1
158	97.8	47.9	143.7

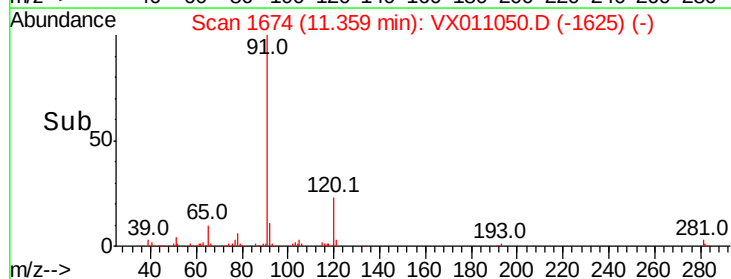
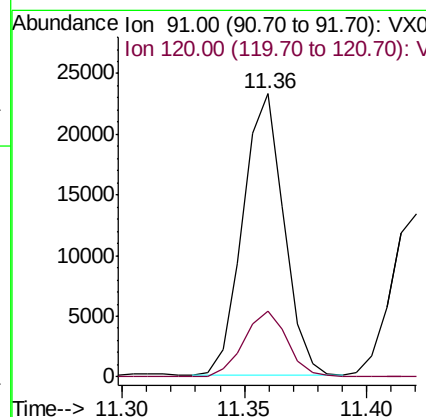
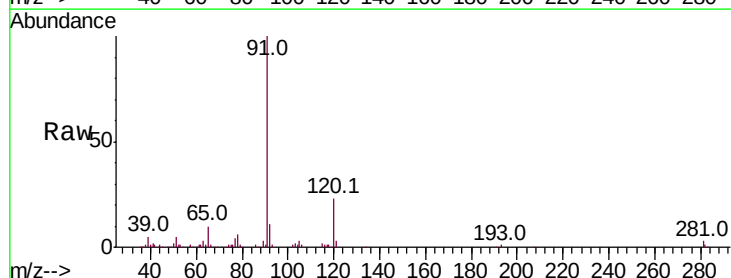
Manual Integrations
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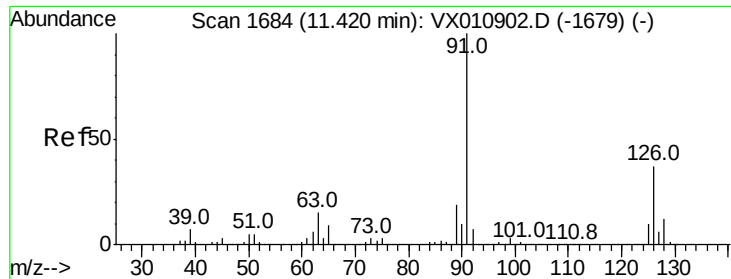
MMDadoda
 7/25/2019 3:06:51 PM



#78
 n-propylbenzene
 Concen: 2.550 ug/l
 RT: 11.36 min Scan# 1674
 Delta R.T. 0.00 min
 Lab File: VX011050.D
 Acq: 23 Jul 2019 11:19

Tgt Ion	Ratio	Lower	Upper
91	100		
120	24.9	12.3	36.8





#79

2-Chlorotoluene

Concen: 2.654 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion: 91 Resp: 16877

Ion Ratio Lower Upper

91 100

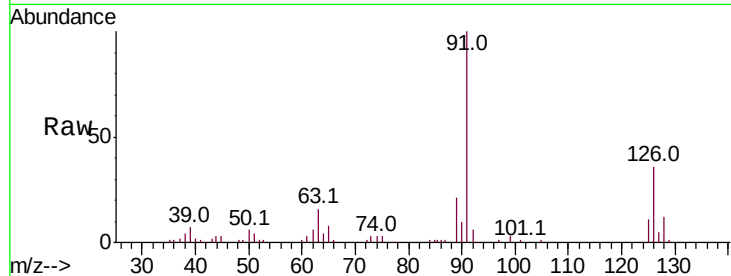
126 37.3 18.0 54.0

Manual Integrations

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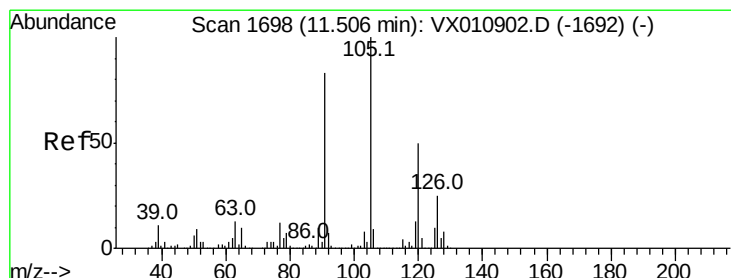
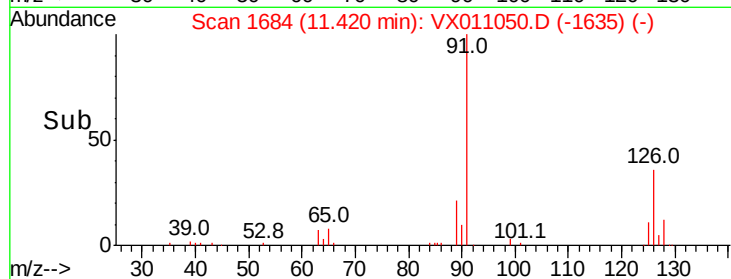
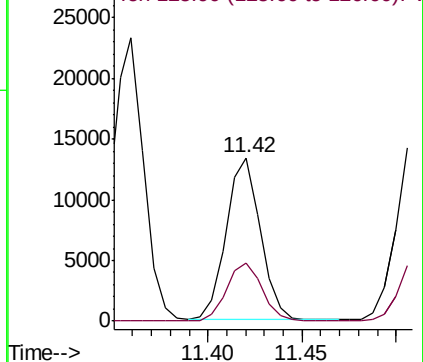
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Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 2.506 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX011050.D

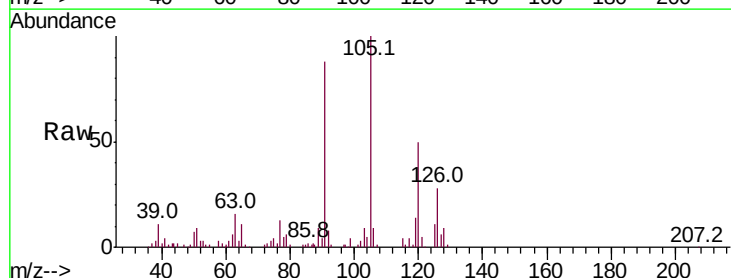
Acq: 23 Jul 2019 11:19

Tgt Ion: 105 Resp: 20064

Ion Ratio Lower Upper

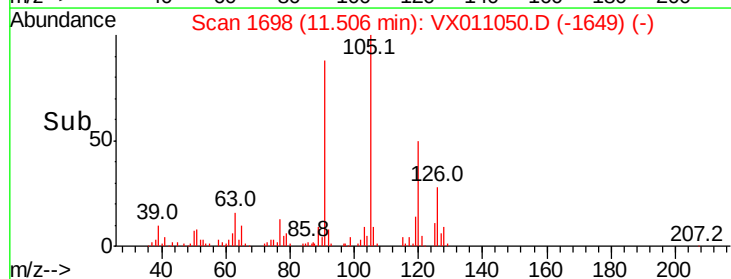
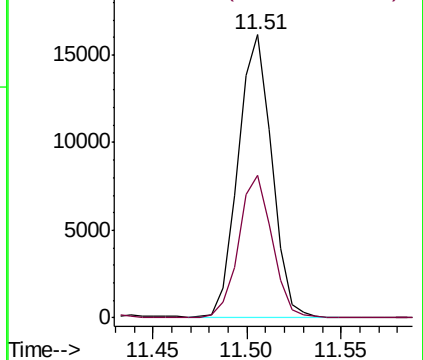
105 100

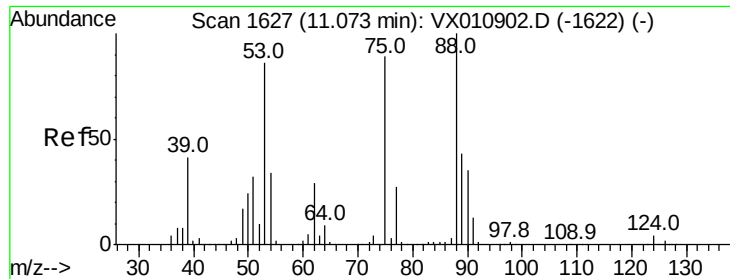
120 49.9 24.6 73.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 1.913 ug/l m

RT: 11.07 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

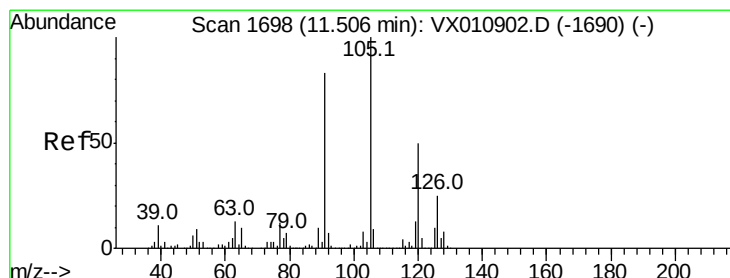
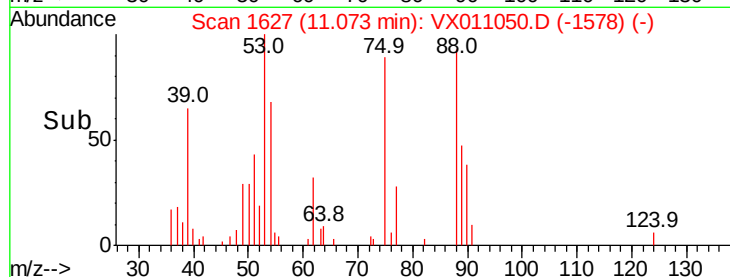
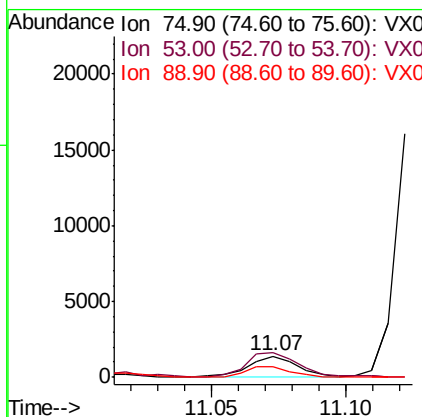
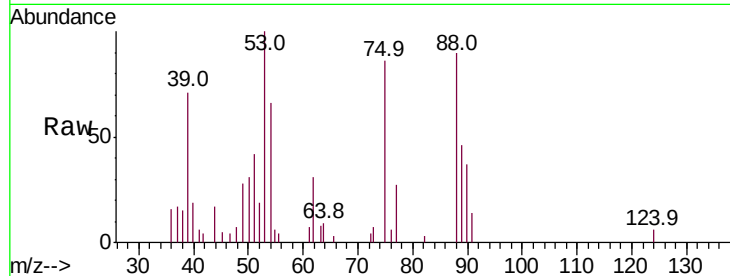
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:	75	Resp:	1779
Ion	Ratio	Lower	Upper
75	100		
53	6.5	76.7	115.1#
89	3.6	38.5	57.7#

Manual Integrations
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#82

4-Chlorotoluene

Concen: 2.568 ug/l

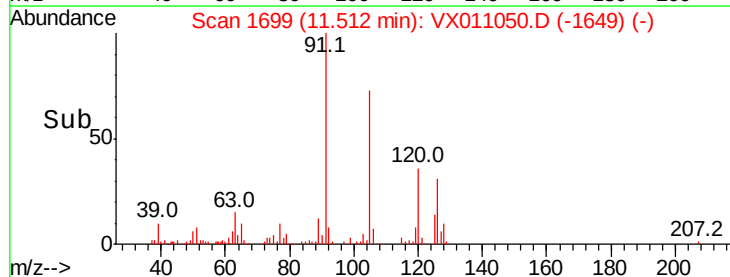
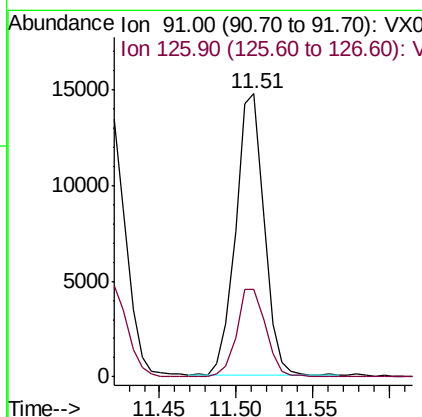
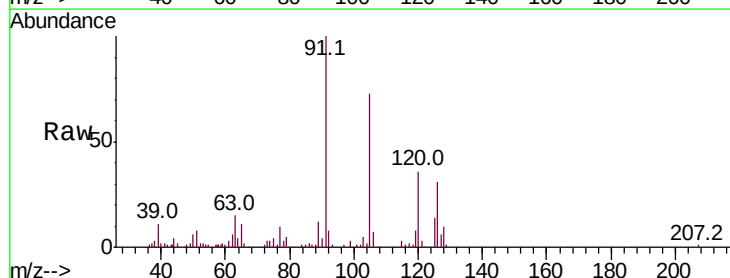
RT: 11.51 min Scan# 1699

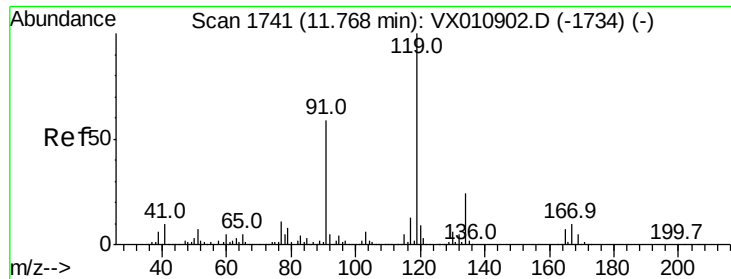
Delta R.T. 0.01 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Tgt Ion:	91	Resp:	19008
Ion	Ratio	Lower	Upper
91	100		
126	31.8	15.9	47.7





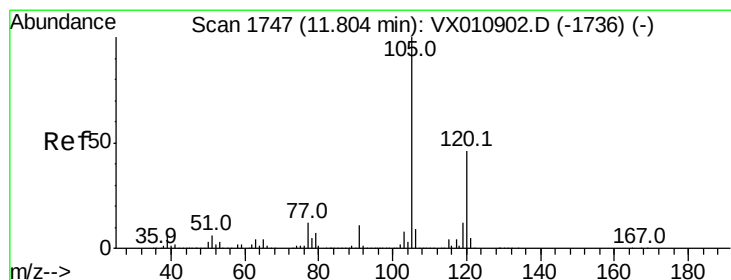
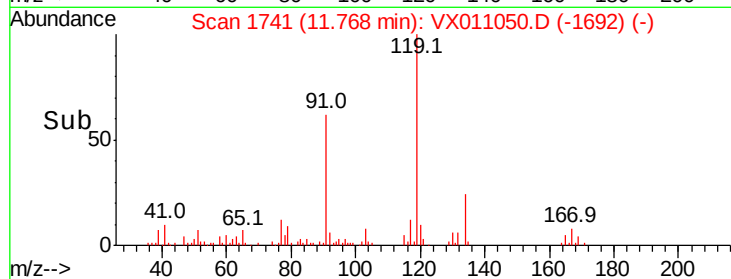
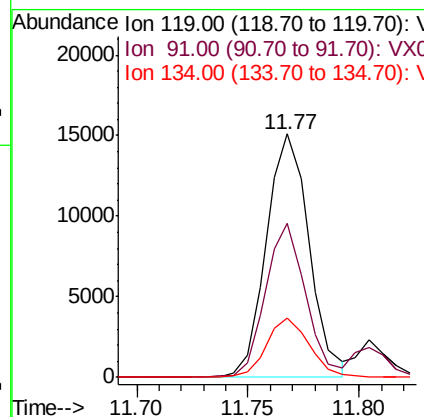
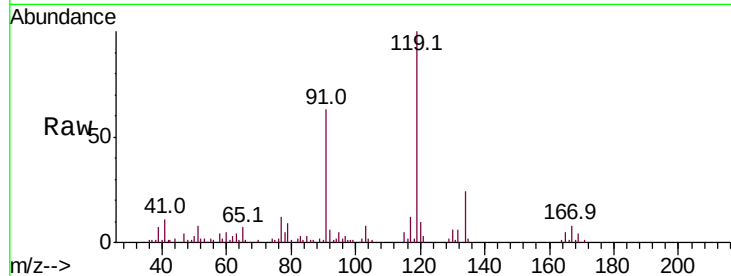
#83
 tert-Butylbenzene
 Concen: 2.562 ug/l
 RT: 11.77 min Scan# 1741
 Delta R.T. 0.00 min
 Lab File: VX011050.D
 Acq: 23 Jul 2019 11:19

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion	Ratio	Resp	Lower	Upper
119	100	20142		
91	59.7	28.6	85.8	
134	24.3	11.6	34.8	

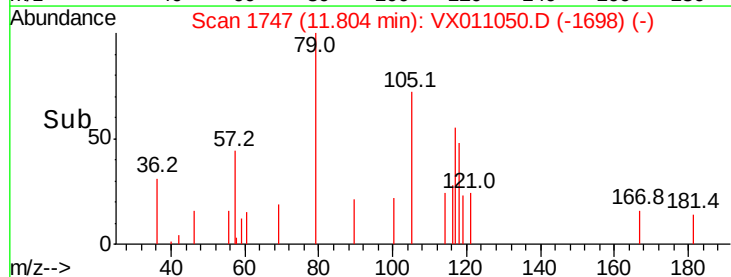
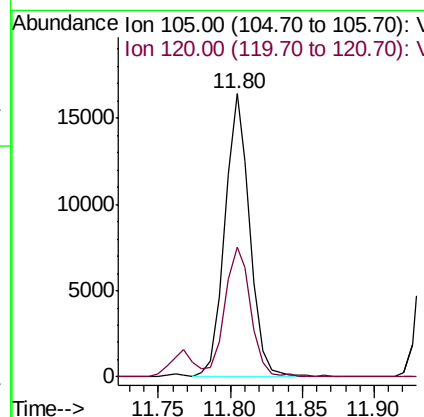
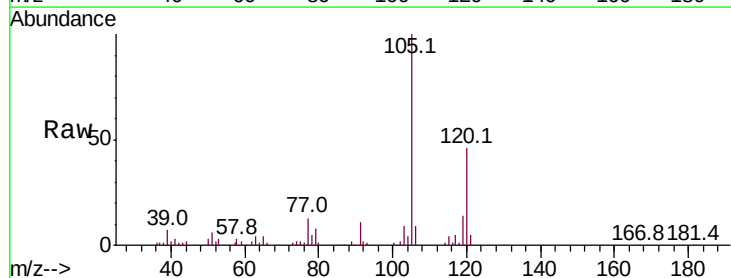
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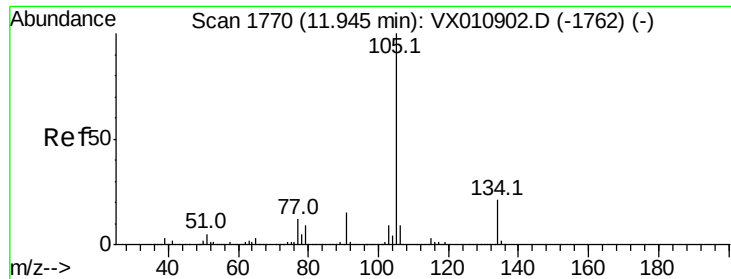
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#84
 1,2,4-Trimethylbenzene
 Concen: 2.470 ug/l
 RT: 11.80 min Scan# 1747
 Delta R.T. 0.00 min
 Lab File: VX011050.D
 Acq: 23 Jul 2019 11:19

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	19927		
120	47.9	22.9	68.5	





#85

sec-Butylbenzene

Concen: 2.634 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:105 Resp: 24268

Ion Ratio Lower Upper

105 100

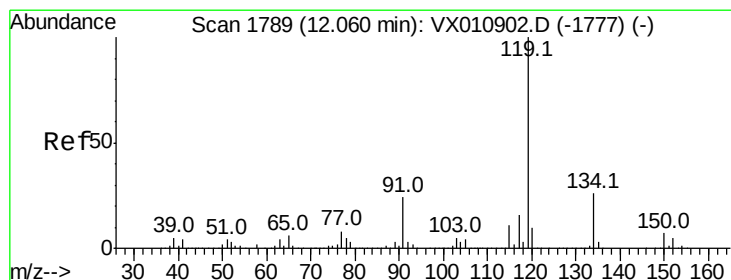
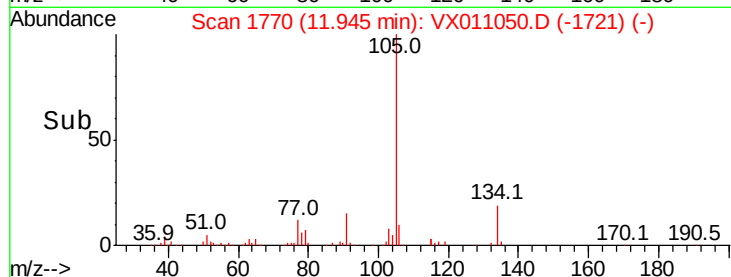
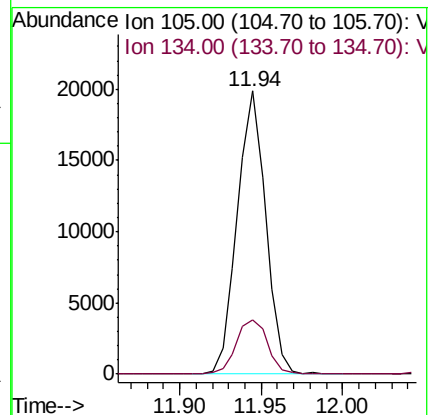
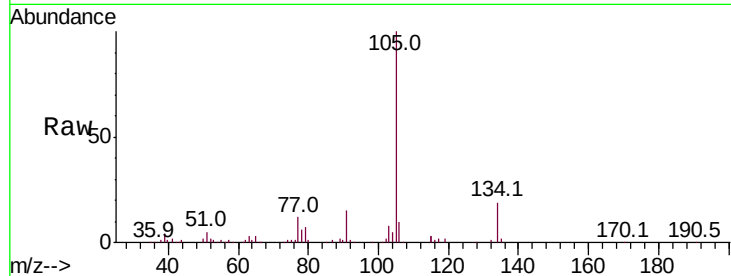
134 21.2 10.4 31.4

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#86

p-Isopropyltoluene

Concen: 2.515 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

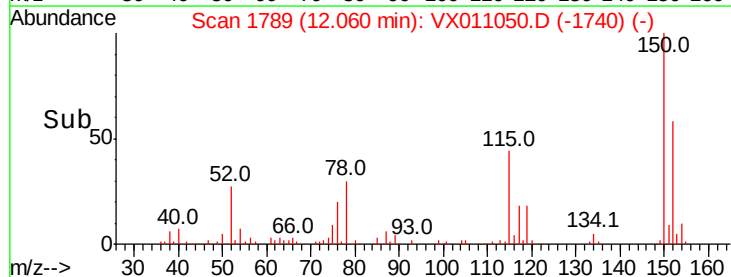
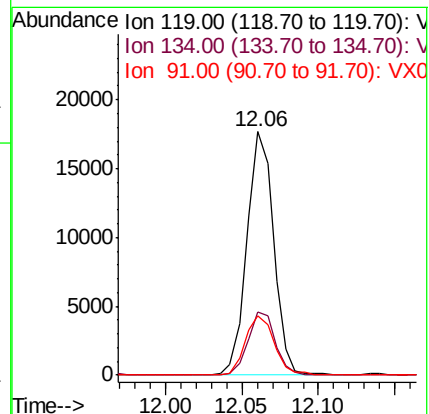
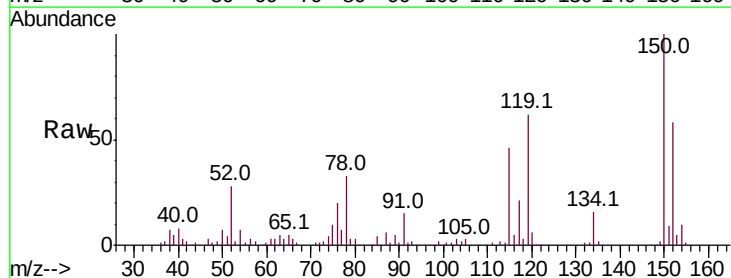
Tgt Ion:119 Resp: 21422

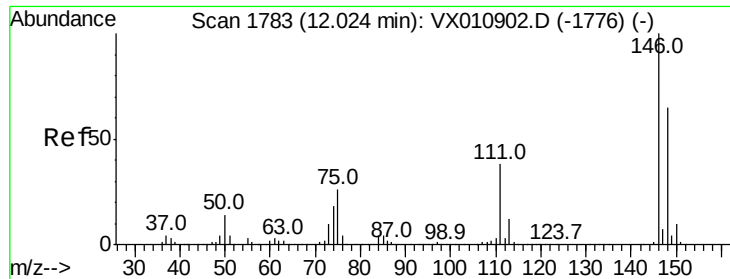
Ion Ratio Lower Upper

119 100

134 26.2 13.4 40.1

91 26.3 11.8 35.4





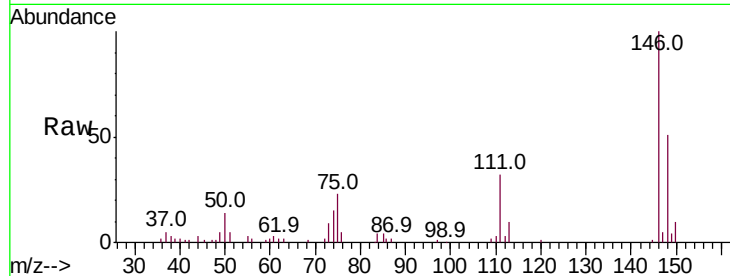
#87
 1,3-Dichlorobenzene
 Concen: 2.703 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. 0.00 min
 Lab File: VX011050.D
 Acq: 23 Jul 2019 11:19

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.1	18.9	56.9
148	60.4	32.2	96.6

Manual Integrations
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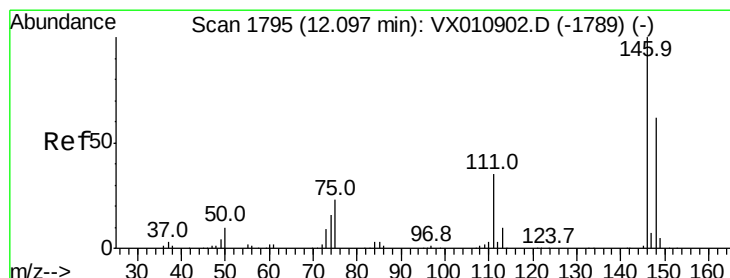
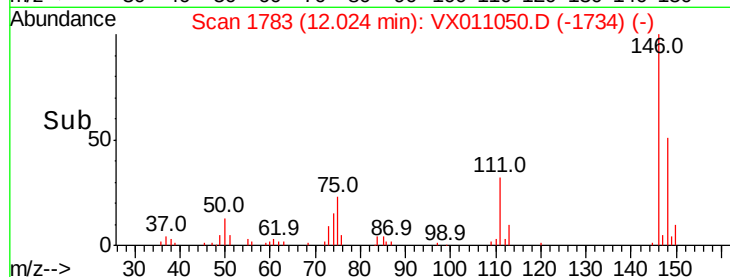
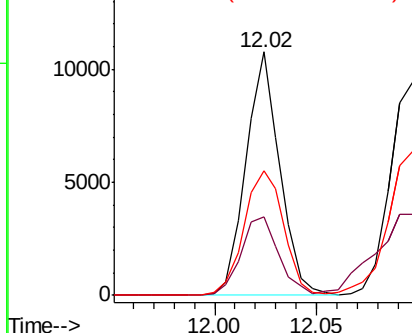


Abundance

Ion 145.90 (145.60 to 146.60): V

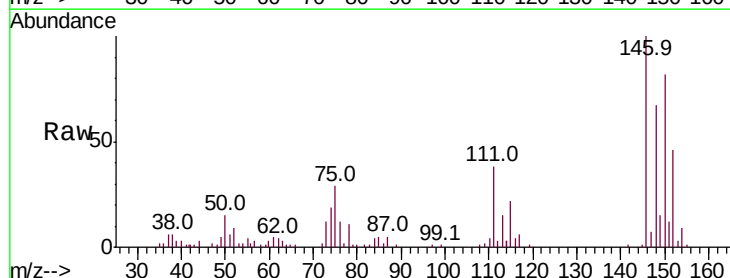
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



#88
 1,4-Dichlorobenzene
 Concen: 2.618 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VX011050.D
 Acq: 23 Jul 2019 11:19

Tgt Ion	Ratio	Lower	Upper
146	100		
111	50.9	18.6	55.8
148	70.3	31.6	94.7

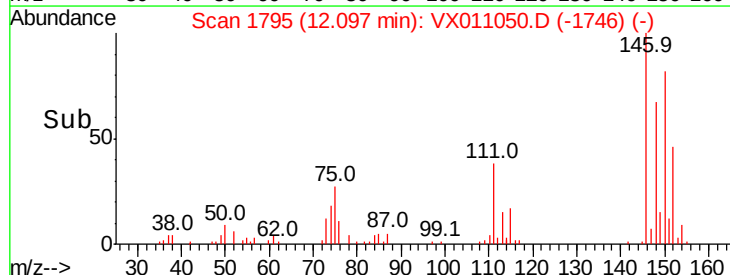
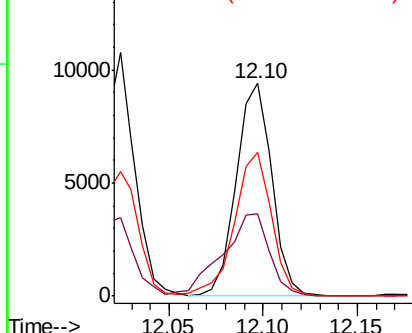


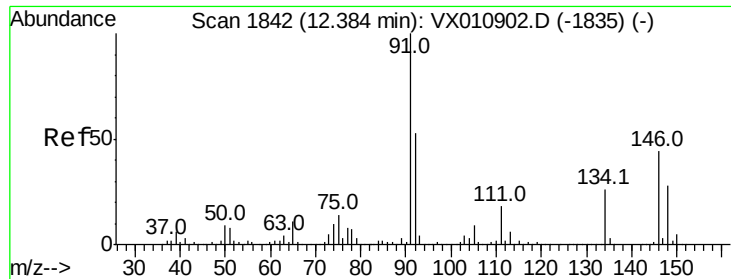
Abundance

Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





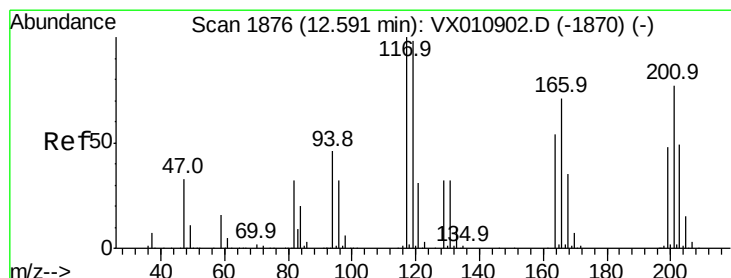
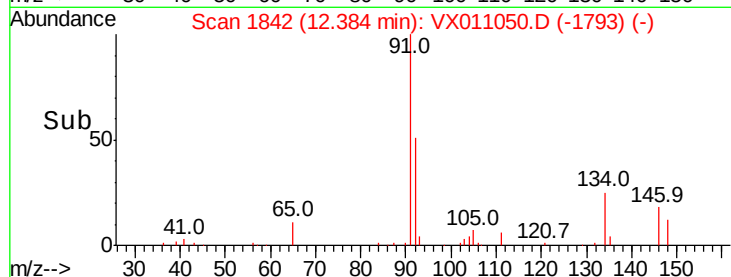
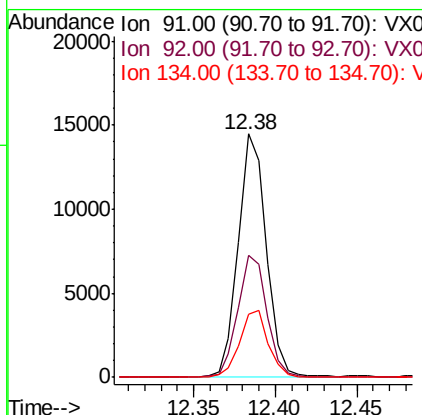
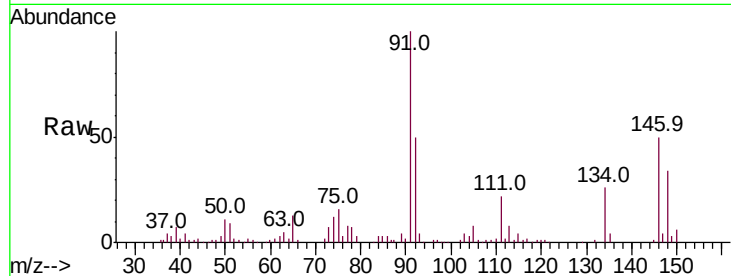
#89
n-Butylbenzene
Concen: 2.393 ug/l
RT: 12.38 min Scan# 1842
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.8	26.2	78.5
134	28.0	13.8	41.3

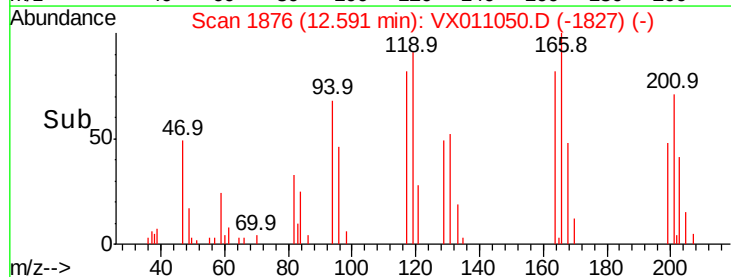
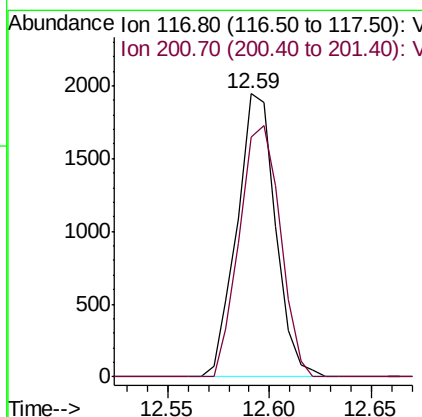
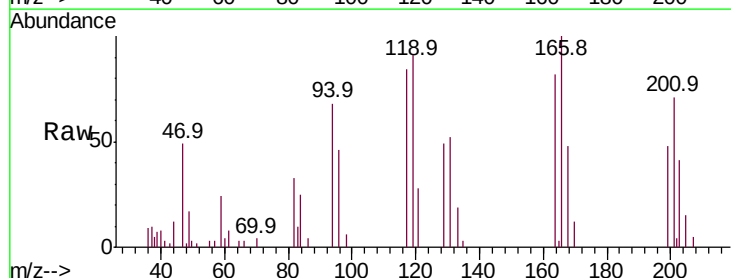
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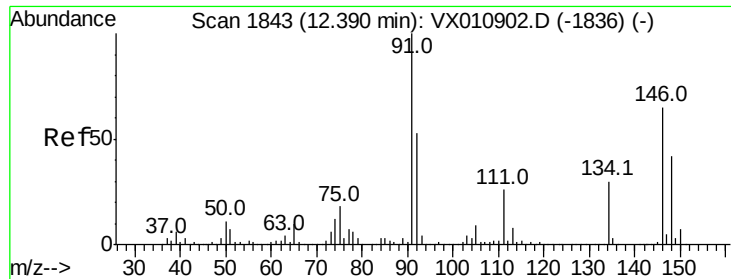
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#90
Hexachloroethane
Concen: 1.906 ug/l
RT: 12.59 min Scan# 1876
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Tgt Ion	Ratio	Lower	Upper
117	100		
201	94.1	43.3	129.8





#91

1,2-Dichlorobenzene

Concen: 2.564 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

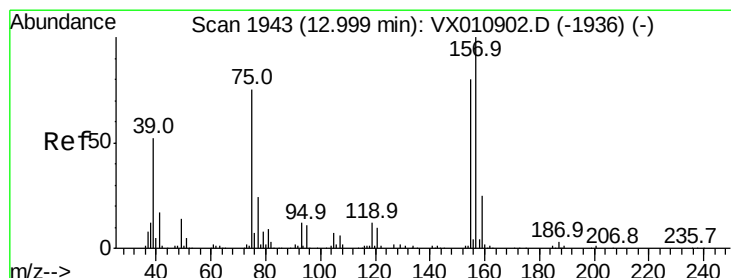
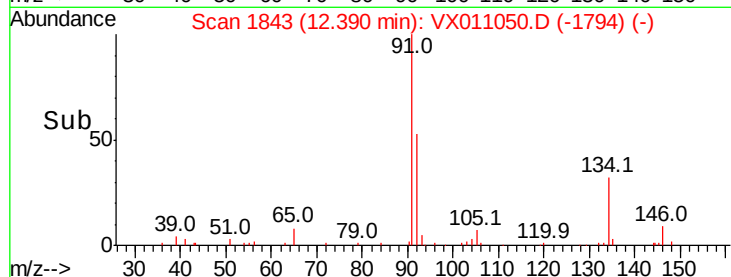
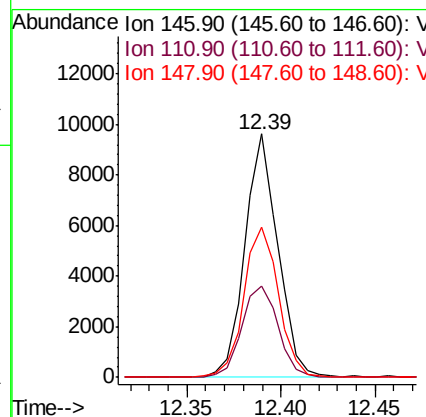
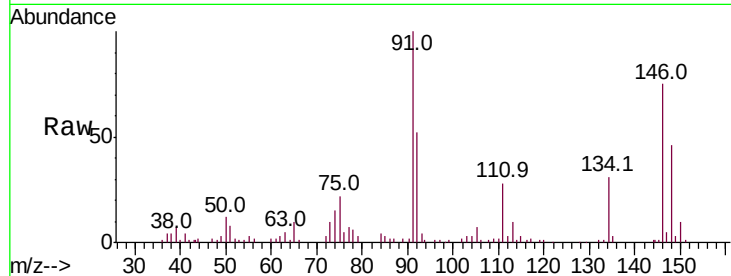
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion:	146	Resp:	11653
Ion Ratio	Lower	Upper	
146	100		
111	41.3	19.9	59.7
148	65.1	32.0	96.2

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 2.385 ug/l

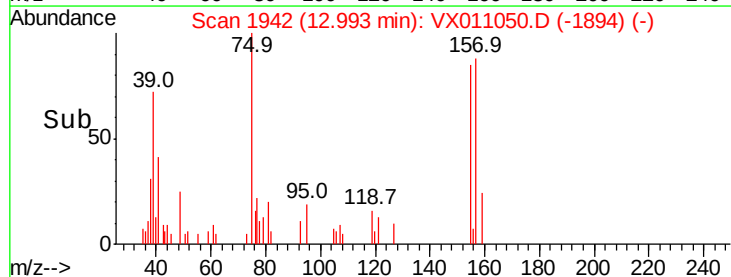
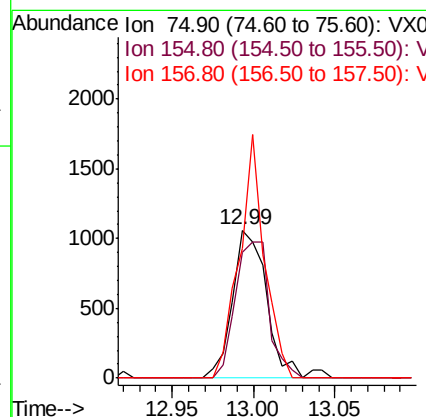
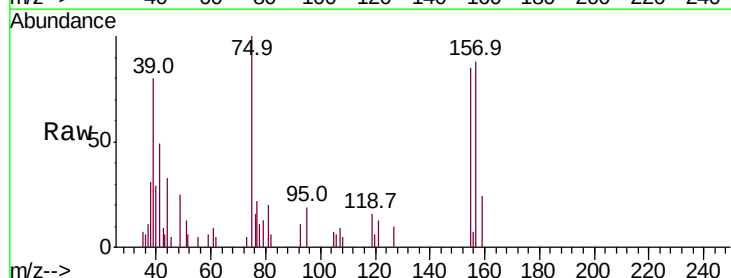
RT: 12.99 min Scan# 1942

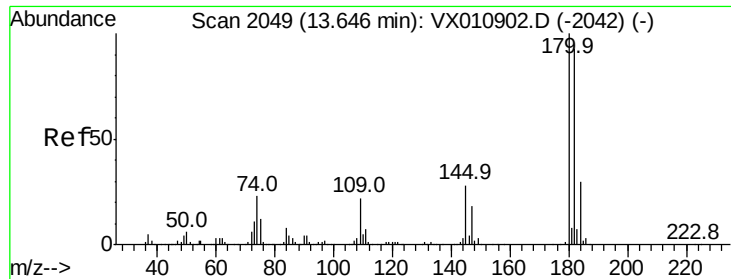
Delta R.T. -0.01 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Tgt Ion:	75	Resp:	1563
Ion Ratio	Lower	Upper	
75	100		
155	90.1	48.7	146.1
157	119.9	62.5	187.6





#93

1,2,4-Trichlorobenzene

Concen: 2.464 ug/l

RT: 13.65 min Scan# 2049

Delta R.T. 0.00 min

Lab File: VX011050.D

Acq: 23 Jul 2019 11:19

Instrument :

MSVOA_X

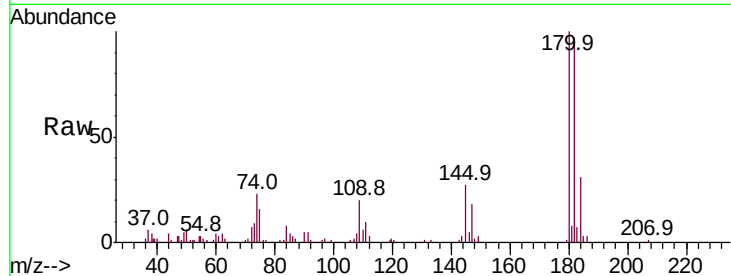
ClientSampleId :

MDL-MDL-WATER-03-QT3-2019 DL

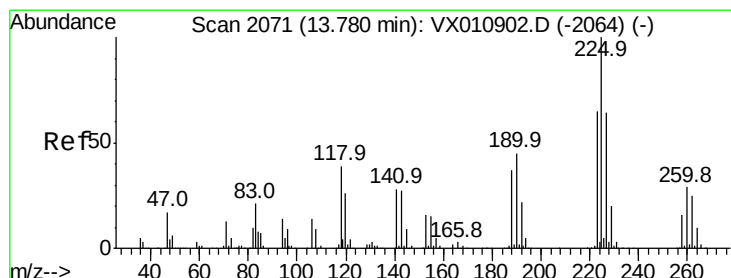
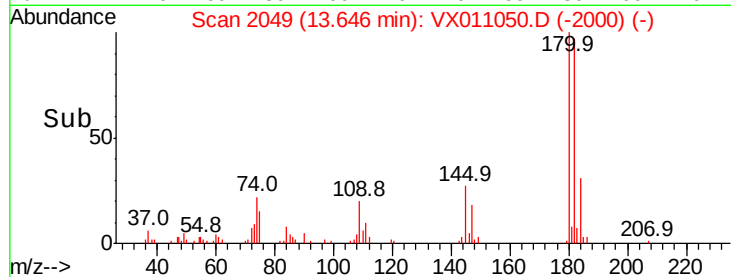
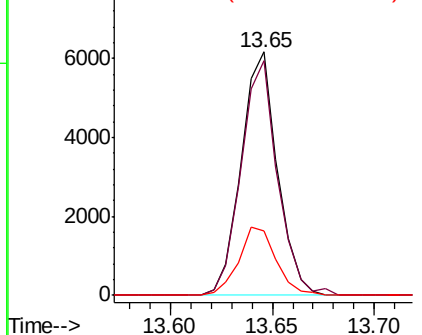
Tot Ion:	180	Resp:	7590
Ion Ratio	Lower	Upper	
180	100		
182	97.2	47.1	141.3
145	29.1	14.8	44.4

Manual Integrations
APPROVED

MMDadoda
7/25/2019 3:06:51 PM



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.80 (144.50 to 145.50): V



#94

Hexachlorobutadiene

Concen: 2.771 ug/l

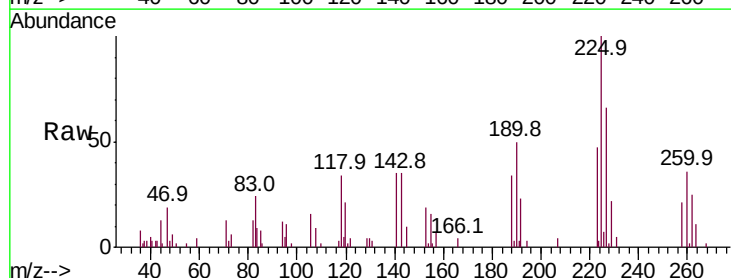
RT: 13.78 min Scan# 2071

Delta R.T. 0.00 min

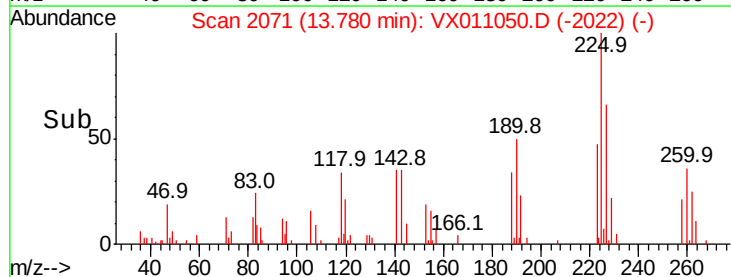
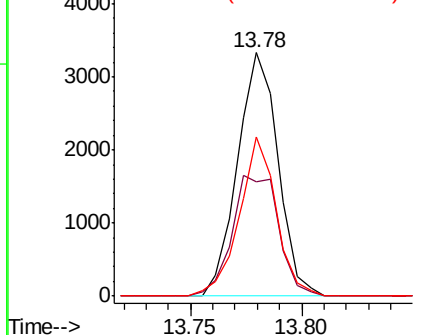
Lab File: VX011050.D

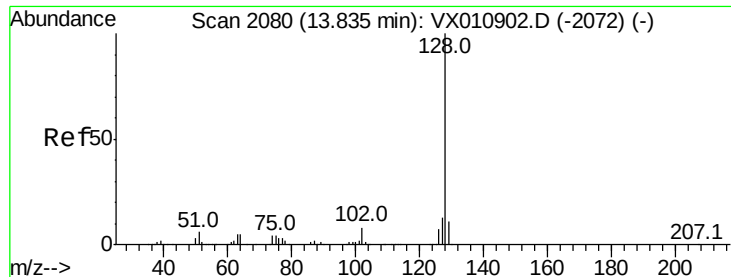
Acq: 23 Jul 2019 11:19

Tgt Ion:	225	Resp:	4230
Ion Ratio	Lower	Upper	
225	100		
223	57.0	31.9	95.9
227	59.5	32.5	97.4



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V





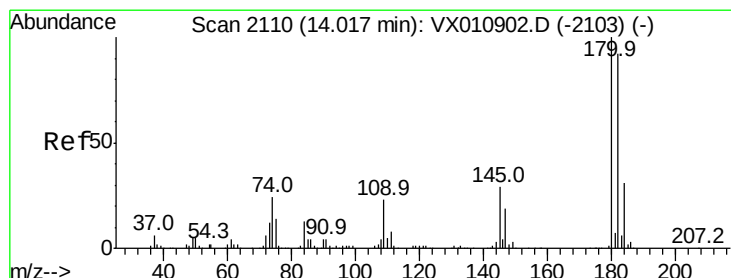
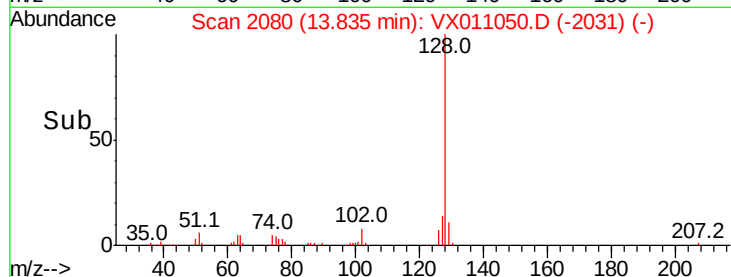
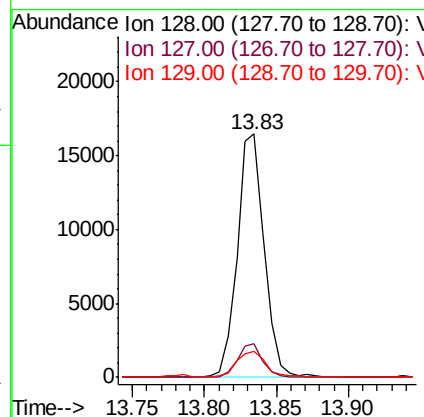
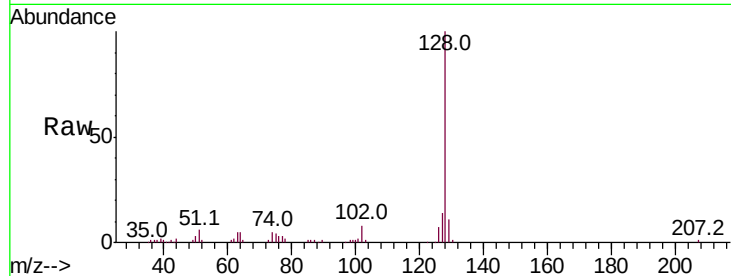
#95
Naphthalene
Concen: 2.367 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019 DL

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.4	15.6
129	11.7	8.9	13.3

Manual Integrations
APPROVED

MMDadoda
7/25/2019 3:06:51 PM



#96
1,2,3-Trichlorobenzene
Concen: 2.523 ug/l
RT: 14.02 min Scan# 2110
Delta R.T. 0.00 min
Lab File: VX011050.D
Acq: 23 Jul 2019 11:19

Tgt Ion	Ratio	Lower	Upper
180	100		
182	91.6	47.4	142.3
145	32.4	15.1	45.3

