

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102119\
 Data File : VX013158.D
 Acq On : 21 Oct 2019 17:41
 Operator : JC/SP
 Sample : K5111-09 2.5PPB MDL
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Manual Integrations
 APPROVED

MMDadoda
 10/22/2019 12:32:08 PM

Quant Time: Oct 22 02:17:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X102119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Oct 22 01:53:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.01	128	27554	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.85	114	155966	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	136180	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.05	65	64171	29.58	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.60%
60) 4-Bromofluorobenzene	11.14	95	66615	28.09	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.63%
63) Toluene-d8	8.71	98	188983	31.20	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.00%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.19	85	4313	2.180	ug/l 99
3) Chloromethane	1.32	50	4052	2.349	ug/l 96
4) Vinyl Chloride	1.40	62	4096	2.297	ug/l 100
5) Bromomethane	1.64	94	3107	3.229	ug/l 93
6) Chloroethane	1.72	64	3099	2.723	ug/l 98
7) Trichlorofluoromethane	1.92	101	6432	2.245	ug/l 89
8) Diethyl Ether	2.18	74	2354	2.407	ug/l 98
9) 1,1,2-Trichlorotrifluoroet	2.37	101	4179	2.388	ug/l 95
10) 1,1-Dichloroethene	2.37	96	3907	2.311	ug/l 90
11) Methyl Iodide	2.50	142	3823	1.756	ug/l 93
12) Methyl Acetate	2.76	43	5530	2.533	ug/l 94
13) Acrolein	2.28	56	3401	10.467	ug/l 94
14) Acrylonitrile	3.13	53	10487	11.488	ug/l 98
15) Acetone	2.44	58	3372	11.212	ug/l 91
16) Carbon Disulfide	2.56	76	10948	2.425	ug/l 99
17) Allyl chloride	2.72	41	6247	2.323	ug/l 84
18) Methylene Chloride	2.85	84	5322	2.719	ug/l 95
19) trans-1,2-Dichloroethene	3.15	96	3985	2.222	ug/l 95
20) Diisopropyl ether	3.85	45	12177	2.342	ug/l # 86
21) 1,1-Dichloroethane	3.70	63	6993	2.215	ug/l # 90
22) cis-1,2-Dichloroethene	4.59	96	4671	2.284	ug/l 89
23) tert-Butyl Alcohol	3.03	59	7109	14.781	ug/l # 100
24) Methyl tert-Butyl Ether	3.18	73	13418m	2.302	ug/l
25) Chloroform	5.20	83	7667	2.311	ug/l 93
26) Cyclohexane	5.57	56	6200	2.238	ug/l # 87
29) 1,1-Dichloropropene	5.79	75	5553	2.292	ug/l # 86
30) 2-Butanone	4.67	43	15338	12.068	ug/l # 53
31) 2,2-Dichloropropane	4.57	77	6276	2.240	ug/l # 84
32) 1,1,1-Trichloroethane	5.48	97	6389m	2.179	ug/l
33) Carbon Tetrachloride	5.78	117	5560	2.206	ug/l 92
34) Benzene	6.14	78	16842	2.415	ug/l 96
35) Methacrylonitrile	5.03	41	3007	2.307	ug/l 77
36) 1,2-Dichloroethane	6.18	62	6137	2.327	ug/l # 93
37) Trichloroethene	7.20	130	4702	2.430	ug/l 96
38) Methylcyclohexane	7.46	83	6610	2.237	ug/l 96
39) 1,2-Dichloropropane	7.51	63	3963	2.315	ug/l 96
40) Dibromomethane	7.65	93	2942	2.406	ug/l 97

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

41) Bromodichloromethane	7.89	83	5223	2.118	ug/l #	94
42) Vinyl Acetate	3.80	43	50070	11.361	ug/l	99
43) Ethyl Acetate	4.83	43	5261	2.270	ug/l	99
44) Isopropyl Acetate	6.43	43	8833	2.267	ug/l	96
45) 1,4-Dioxane	7.74	88	2441	49.543	ug/l #	83
46) Methyl methacrylate	7.76	41	4381	2.285	ug/l	88
47) n-amyl Acetate	10.89	43	6604	2.011	ug/l	96
48) t-1,3-Dichloropropene	9.04	75	5418	2.003	ug/l #	88
49) cis-1,3-Dichloropropene	8.43	75	6488	2.204	ug/l #	82
50) 1,1,2-Trichloroethane	9.21	97	4314	2.389	ug/l	97
51) Ethyl methacrylate	9.18	69	5962	2.105	ug/l	90
52) 1,3-Dichloropropane	9.37	76	6880	2.262	ug/l	94
53) Dibromochloromethane	9.58	129	3853	1.978	ug/l	96
54) 1,2-Dibromoethane	9.67	107	4336	2.245	ug/l	99
55) 2-Chloroethyl vinyl ether	8.31	63	14075	12.236	ug/l	99
56) Bromoform	10.85	173	2412	1.745	ug/l	97
58) 4-Methyl-2-Pentanone	8.64	43	27664	12.056	ug/l	99
59) 2-Hexanone	9.49	43	21032	11.695	ug/l	99
61) Tetrachloroethene	9.33	164	4489	2.486	ug/l	91
62) Toluene	8.78	91	18454	2.510	ug/l	95
64) Chlorobenzene	10.14	112	11737	2.490	ug/l	97
65) 1,1,1,2-Tetrachloroethane	10.21	131	3913	2.216	ug/l	95
66) Ethyl Benzene	10.25	91	20321	2.402	ug/l	98
67) m/p-Xylenes	10.35	106	14633	4.551	ug/l	98
68) o-Xylene	10.69	106	7277	2.371	ug/l	97
69) Styrene	10.71	104	11048	2.091	ug/l	97
70) Isopropylbenzene	11.01	105	18530	2.200	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.26	83	6249	2.421	ug/l	98
72) 1,2,3-Trichloropropane	11.29	75	5240m	2.337	ug/l	
73) Bromobenzene	11.25	156	4565	2.258	ug/l	98
74) n-propylbenzene	11.35	91	20557	2.223	ug/l	99
75) 2-Chlorotoluene	11.42	91	13139	2.271	ug/l	100
76) 1,3,5-Trimethylbenzene	11.50	105	15549	2.199	ug/l	95
77) t-1,4-Dichloro-2-butene	11.07	75	1616	1.857	ug/l	93
78) 4-Chlorotoluene	11.51	91	14976	2.266	ug/l	97
79) tert-butylbenzene	11.76	119	14893	2.187	ug/l	98
80) 1,2,4-Trimethylbenzene	11.81	105	15272	2.162	ug/l	98
81) sec-Butylbenzene	11.94	105	17840	2.199	ug/l	99
82) p-Isopropyltoluene	12.06	119	15146	2.042	ug/l	99
83) 1,3-Dichlorobenzene	12.03	146	8535	2.312	ug/l	98
84) 1,4-Dichlorobenzene	12.09	146	8183	2.241	ug/l	98
85) n-Butylbenzene	12.39	91	12036	1.911	ug/l	98
86) Hexachloroethane	12.59	117	2384	1.842	ug/l	86
87) 1,2-Dichlorobenzene	12.39	146	8345	2.330	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	12.99	75	1159	1.822	ug/l	86
89) 1,2,4-Trichlorobenzene	13.64	180	4764	2.139	ug/l	98
90) Hexachlorobutadiene	13.78	225	2678	2.368	ug/l	97
91) Naphthalene	13.83	128	15132	2.089	ug/l	98
92) 1,2,3-Trichlorobenzene	14.01	180	4824	2.114	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

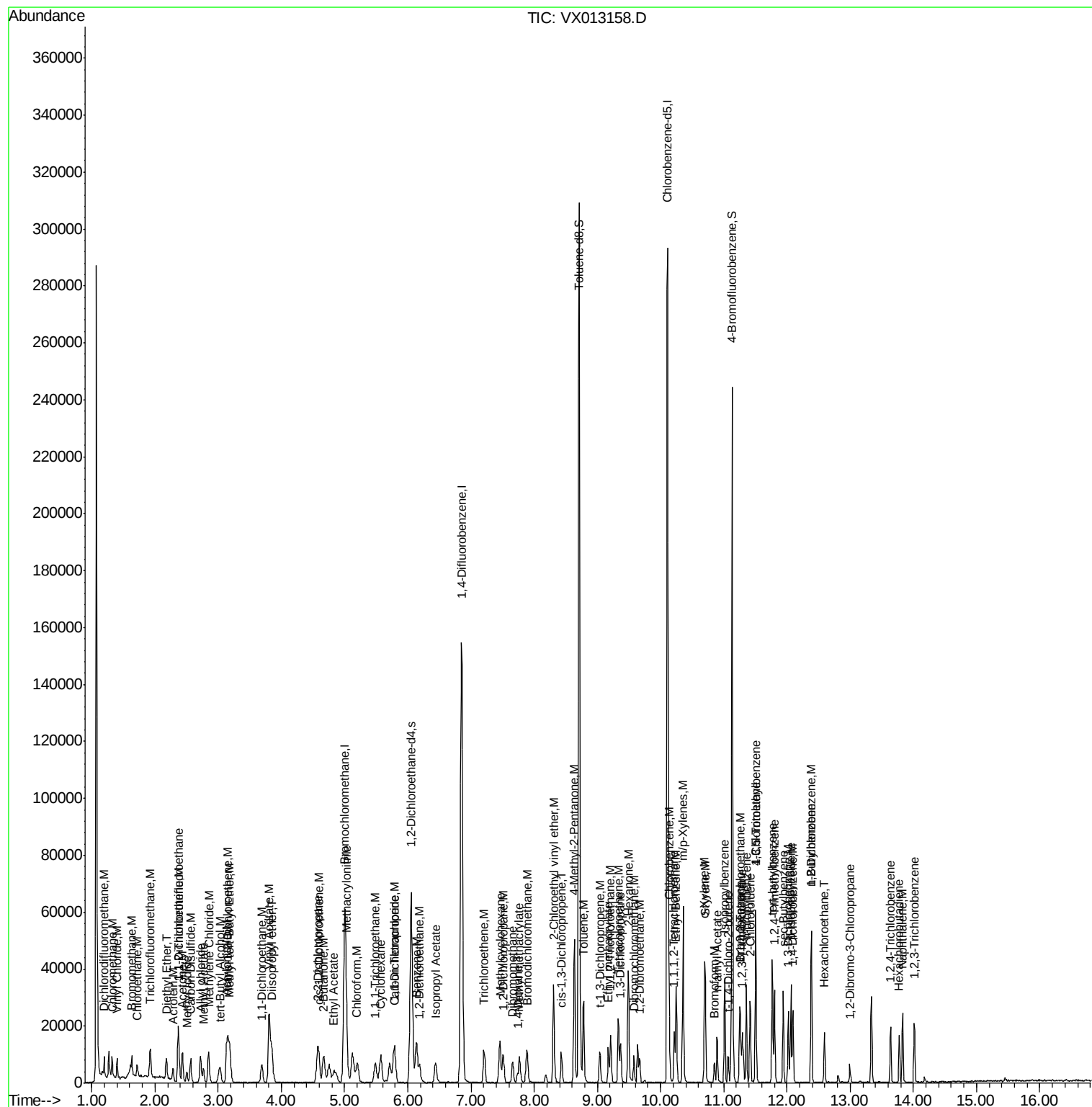
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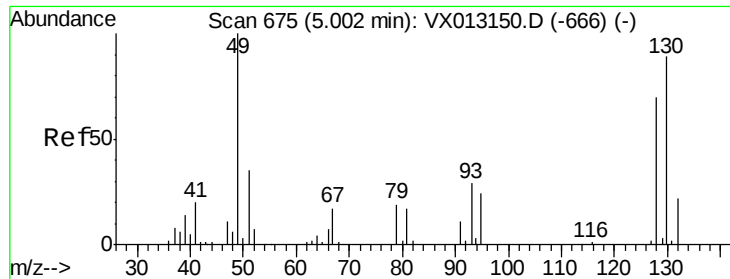
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MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Manual Integrations
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10/22/2019 12:32:08 PM

Quant Time: Oct 22 02:17:53 2019
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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Tue Oct 22 01:53:07 2019
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.01 min Scan# 676

Delta R.T. 0.01 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:128 Resp: 27554

Ion Ratio Lower Upper

128 100

49 143.7 0.0 367.3

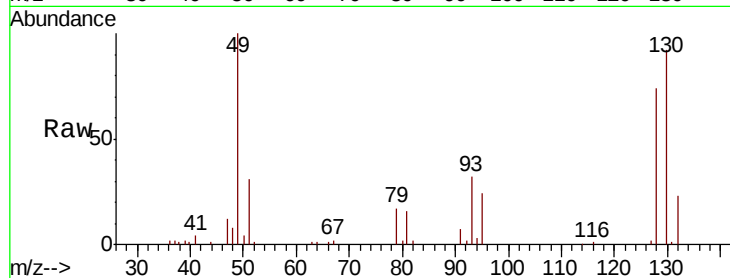
130 128.3 0.0 325.0

Manual Integrations

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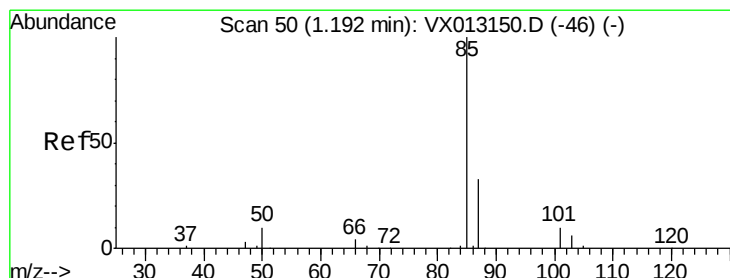
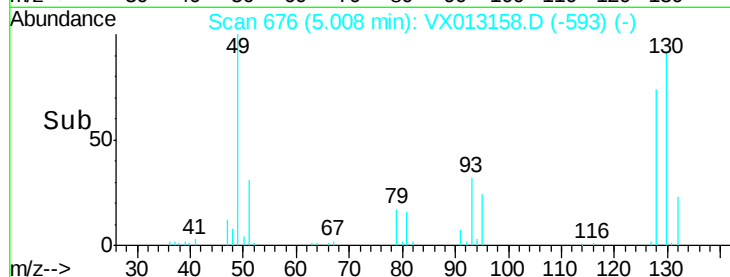
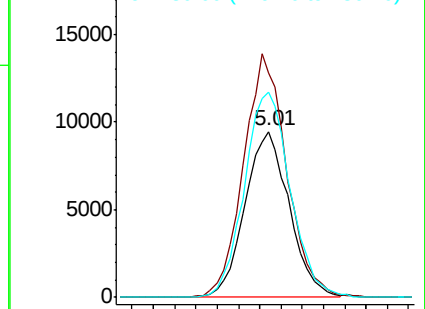
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Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VX0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 2.180 ug/l

RT: 1.19 min Scan# 50

Delta R.T. -0.00 min

Lab File: VX013158.D

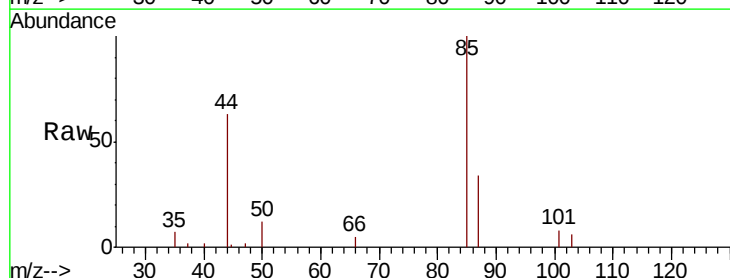
Acq: 21 Oct 2019 17:41

Tgt Ion: 85 Resp: 4313

Ion Ratio Lower Upper

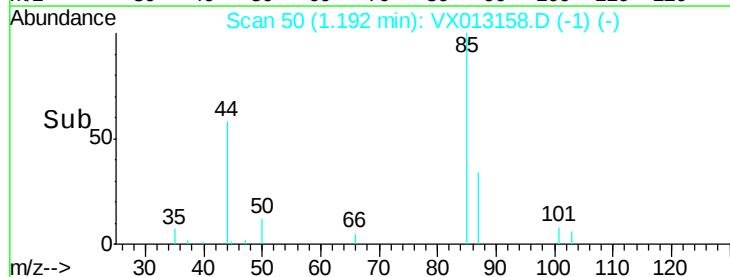
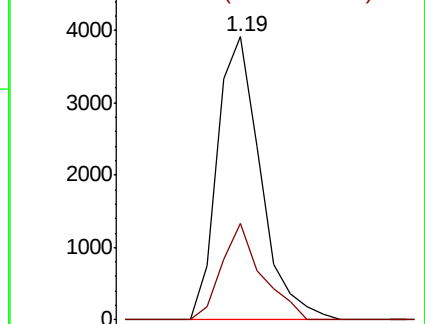
85 100

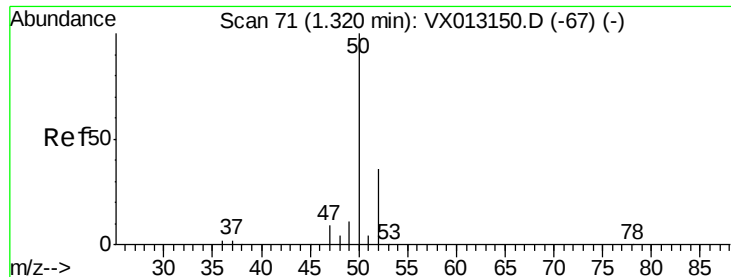
87 33.9 16.6 49.7



Abundance Ion 85.00 (84.70 to 85.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#3

Chloromethane

Concen: 2.349 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 50 Resp: 4052

Ion Ratio Lower Upper

50 100

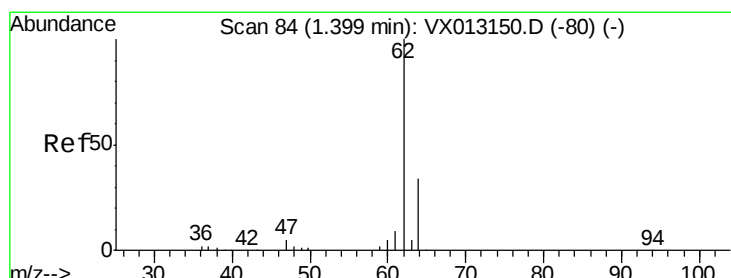
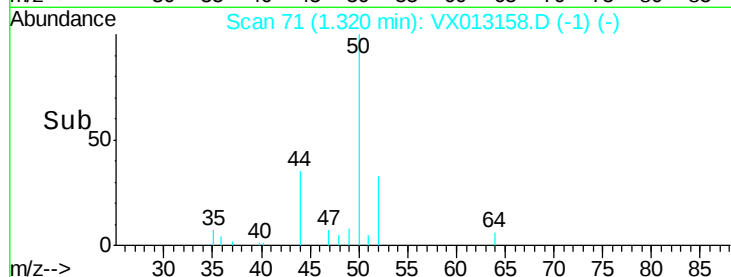
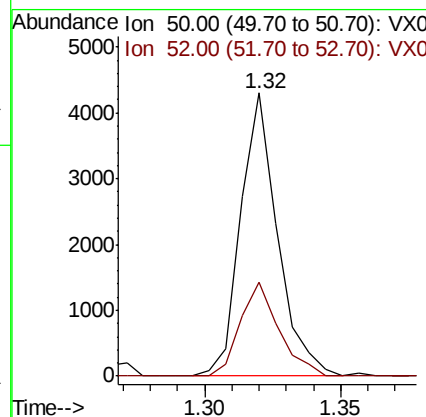
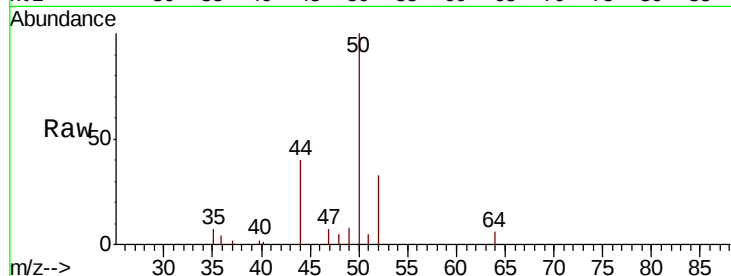
52 33.1 28.6 42.8

Manual Integrations

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#4

Vinyl Chloride

Concen: 2.297 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX013158.D

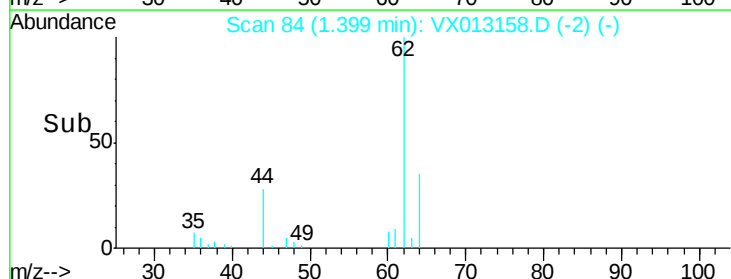
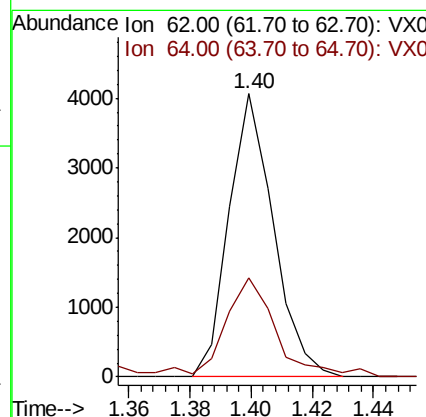
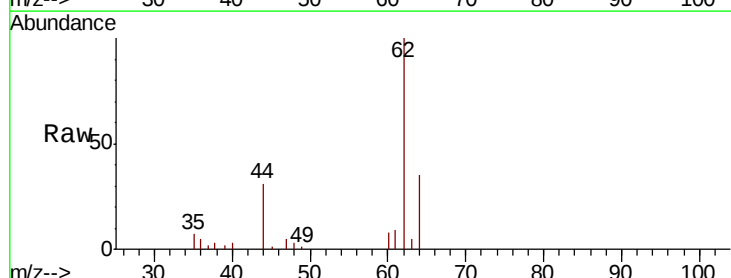
Acq: 21 Oct 2019 17:41

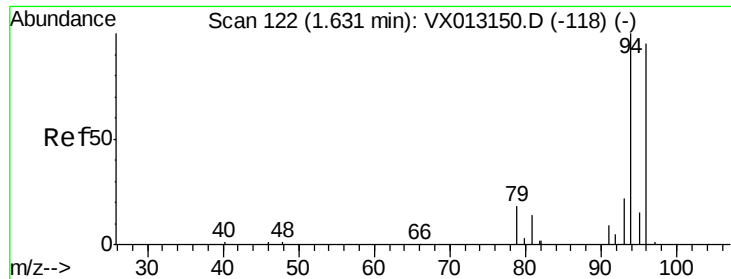
Tgt Ion: 62 Resp: 4096

Ion Ratio Lower Upper

62 100

64 33.9 27.3 40.9





#5

Bromomethane

Concen: 3.229 ug/l

RT: 1.64 min Scan# 123

Delta R.T. 0.01 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 94 Resp: 3107

Ion Ratio Lower Upper

94 100

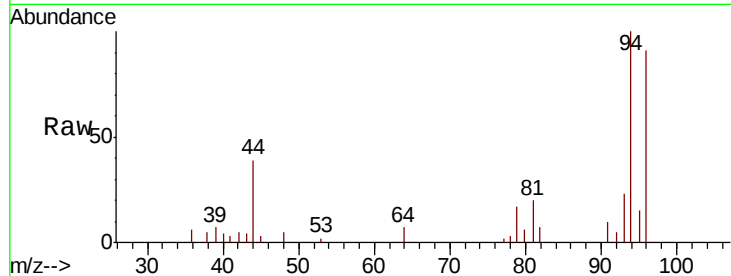
96 88.0 75.9 113.9

Manual Integrations

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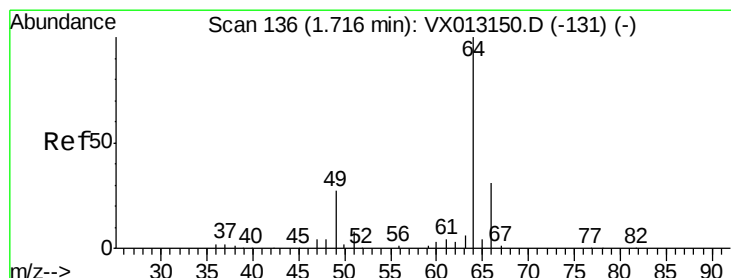
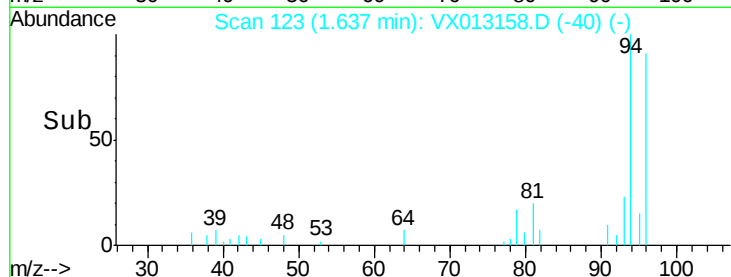
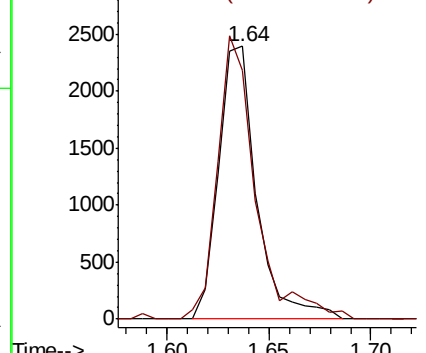
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Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0



#6

Chloroethane

Concen: 2.723 ug/l

RT: 1.72 min Scan# 136

Delta R.T. -0.00 min

Lab File: VX013158.D

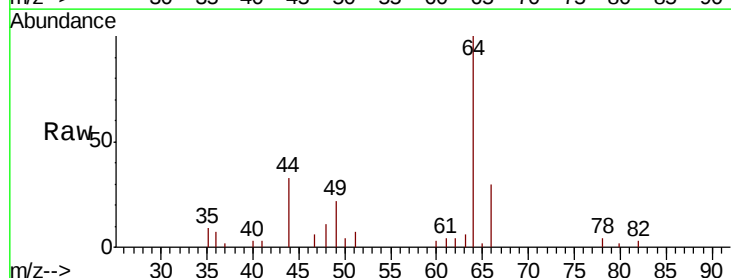
Acq: 21 Oct 2019 17:41

Tgt Ion: 64 Resp: 3099

Ion Ratio Lower Upper

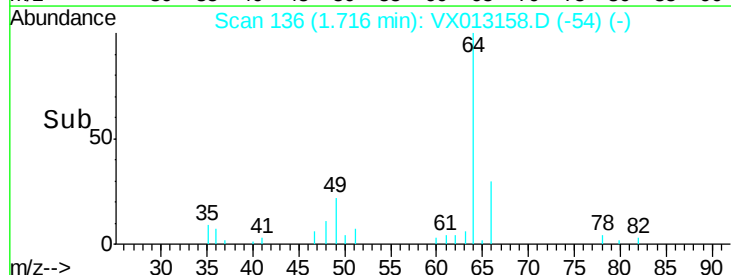
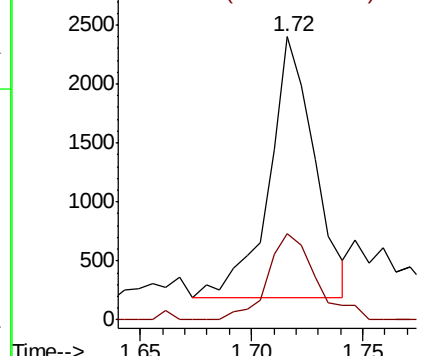
64 100

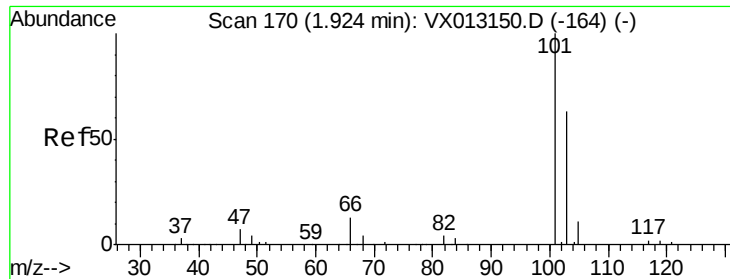
66 32.9 25.4 38.2



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0





#7

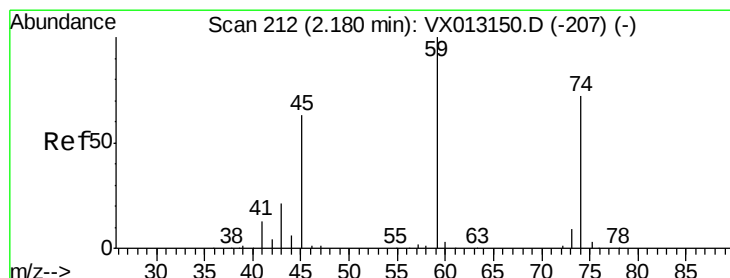
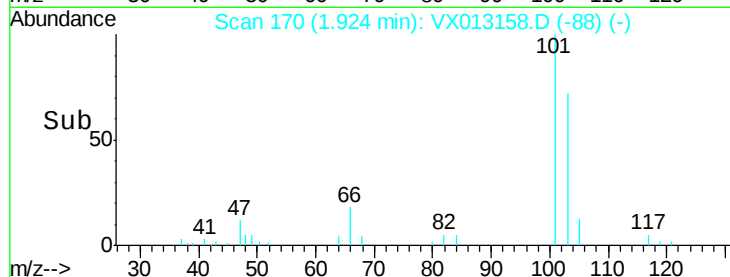
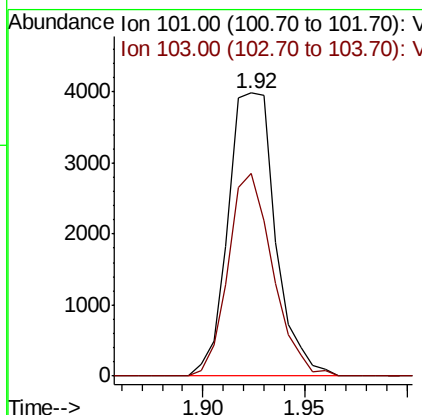
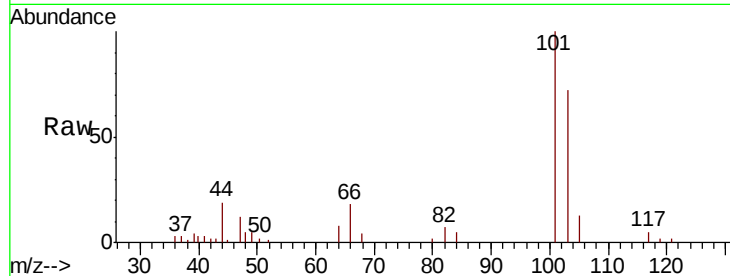
Trichlorofluoromethane
Concen: 2.245 ug/l
RT: 1.92 min Scan# 170
Delta R.T. -0.00 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Instrument :
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MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:101 Resp: 6432
Ion Ratio Lower Upper
101 100
103 71.7 50.2 75.4

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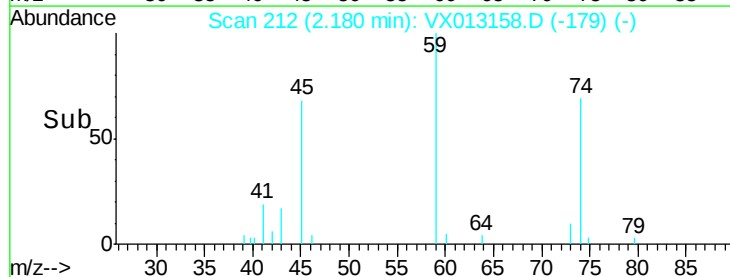
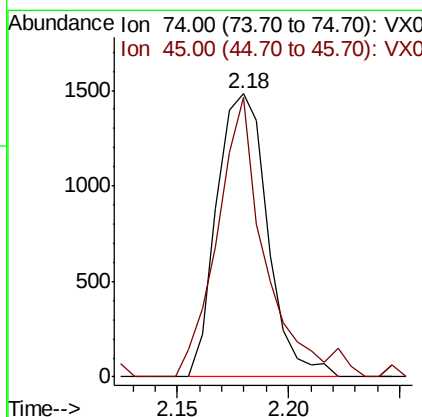
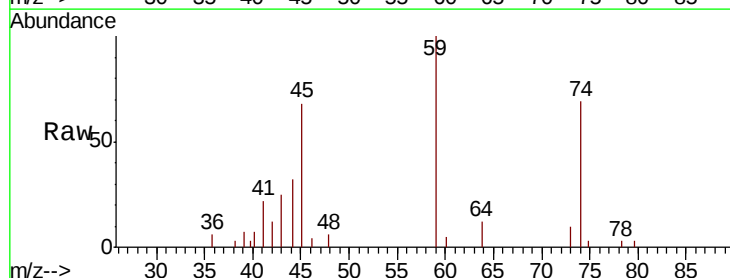
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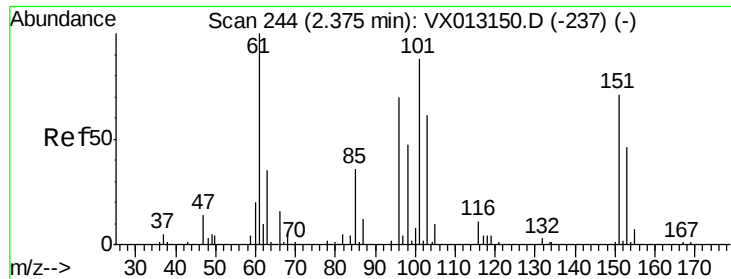


#8

Diethyl Ether
Concen: 2.407 ug/l
RT: 2.18 min Scan# 212
Delta R.T. -0.00 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Tgt Ion: 74 Resp: 2354
Ion Ratio Lower Upper
74 100
45 90.2 18.4 165.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.388 ug/l

RT: 2.37 min Scan# 244

Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Instrument :

MSVOA_X

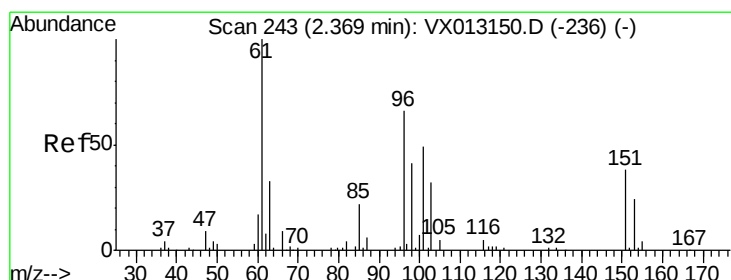
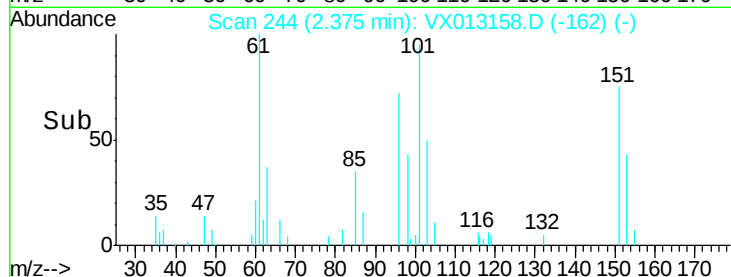
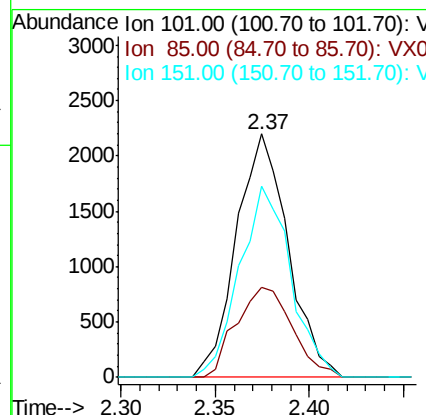
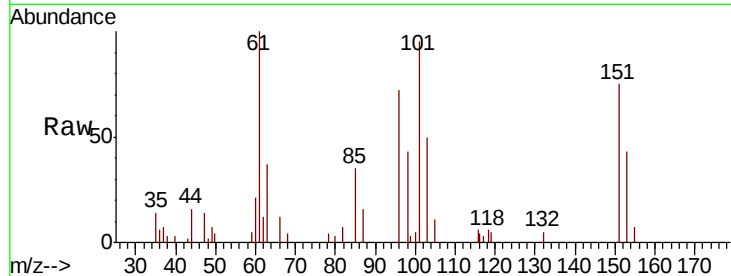
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	101	Resp:	4179
Ion Ratio	Lower	Upper	
101	100		
85	40.2	0.0	87.2
151	77.7	0.0	163.0

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#10

1,1-Dichloroethene

Concen: 2.311 ug/l

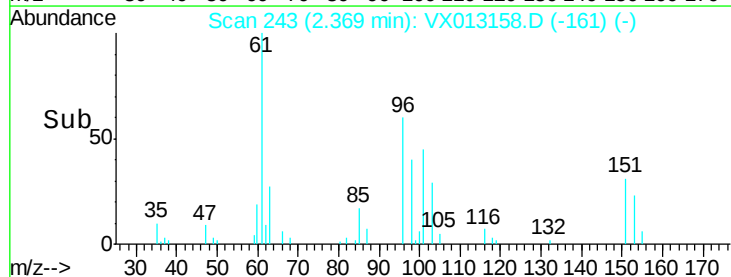
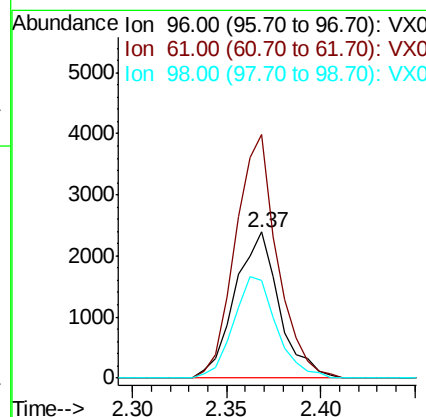
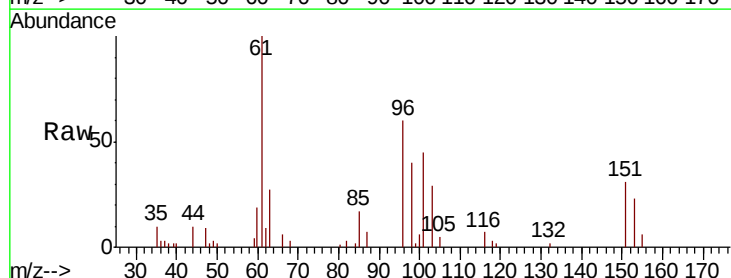
RT: 2.37 min Scan# 243

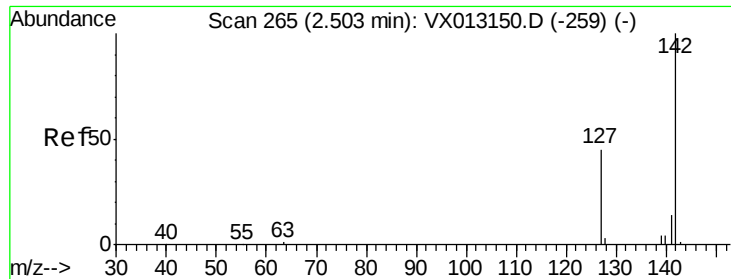
Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Tgt Ion:	96	Resp:	3907
Ion Ratio	Lower	Upper	
96	100		
61	166.8	121.3	181.9
98	66.9	49.5	74.3





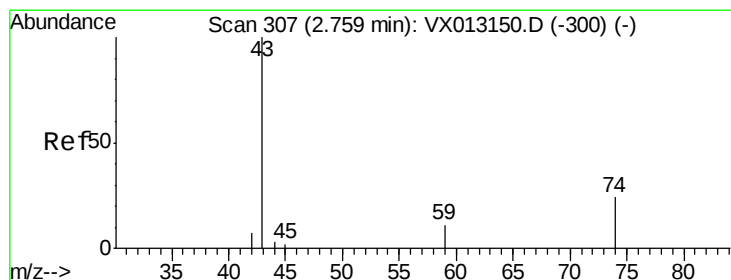
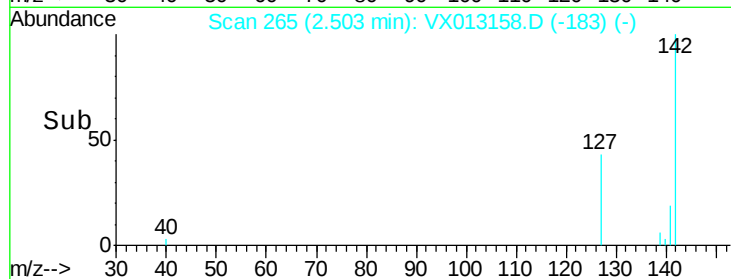
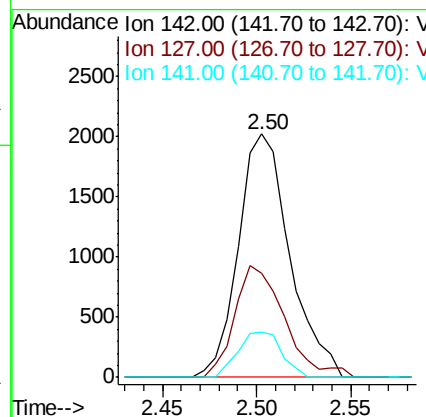
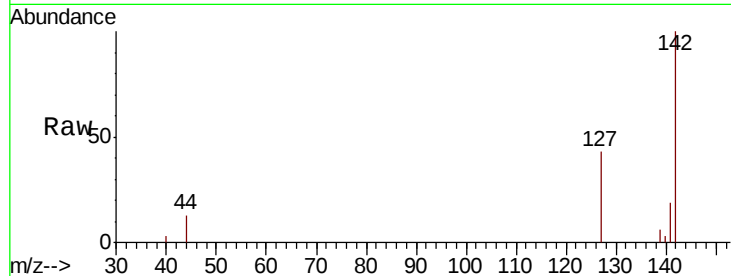
#11
Methvl Iodide
Concen: 1.756 ug/l
RT: 2.50 min Scan# 265
Delta R.T. -0.00 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
142	100		
127	40.7	22.3	66.9
141	18.8	7.1	21.3

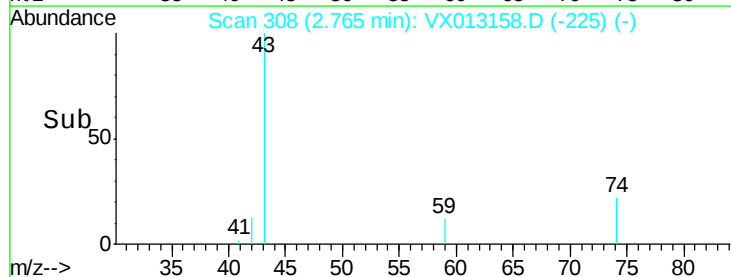
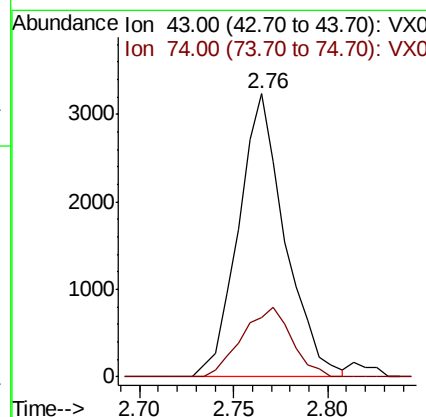
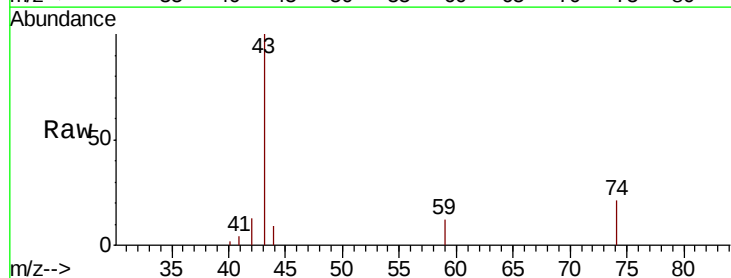
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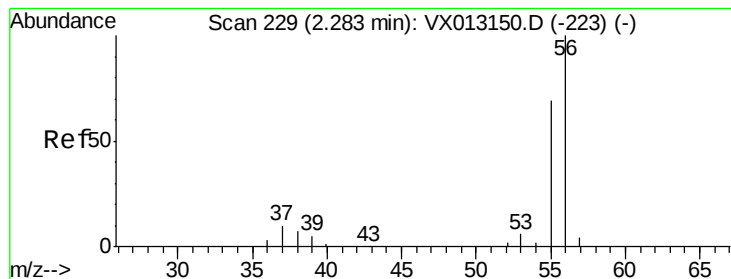
MMDadoda
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#12
Methyl Acetate
Concen: 2.533 ug/l
RT: 2.76 min Scan# 308
Delta R.T. 0.01 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Tgt Ion	Ratio	Lower	Upper
43	100		
74	21.4	19.7	29.5





#13

Acrolein

Concen: 10.467 ug/l

RT: 2.28 min Scan# 229

Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Tot Ion: 56 Resp: 3401

Ion Ratio Lower Upper

56 100

55 74.8 55.8 83.8

Instrument :

MSVOA_X

ClientSampleId :

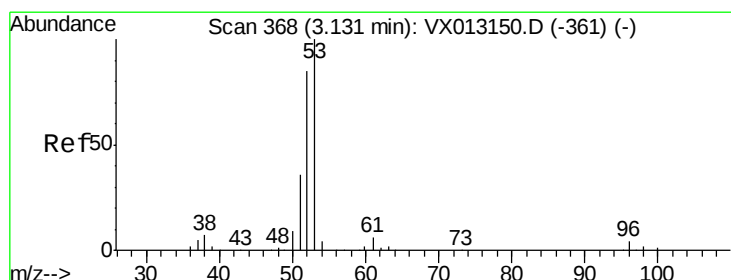
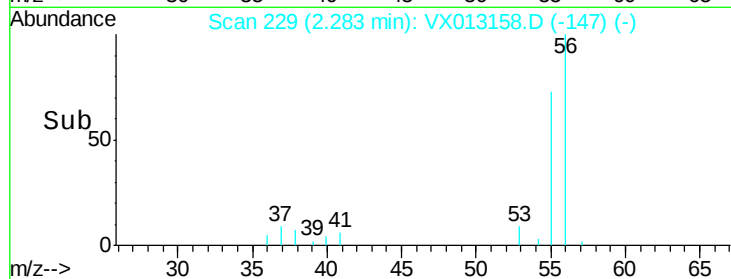
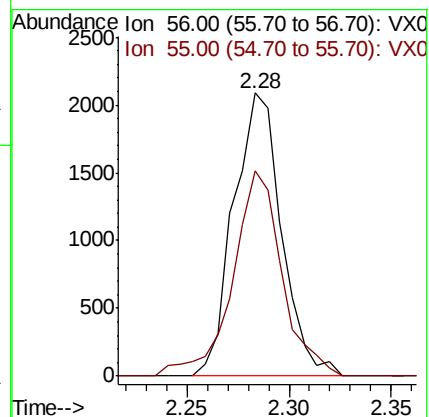
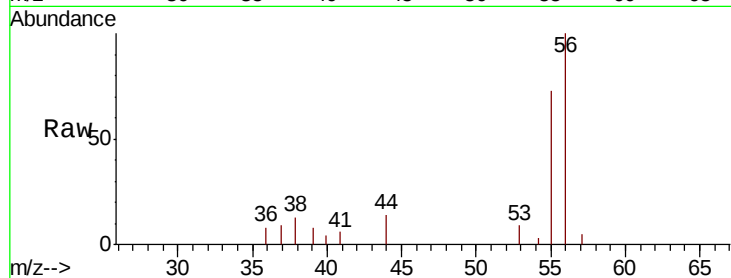
MDL-MDL-WATER-03-QT4-2019DL

Manual Integrations

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#14

Acrylonitrile

Concen: 11.488 ug/l

RT: 3.13 min Scan# 368

Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

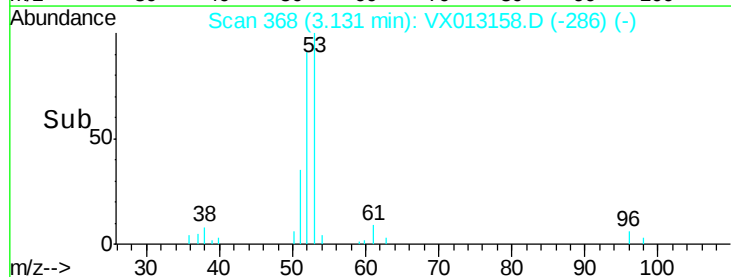
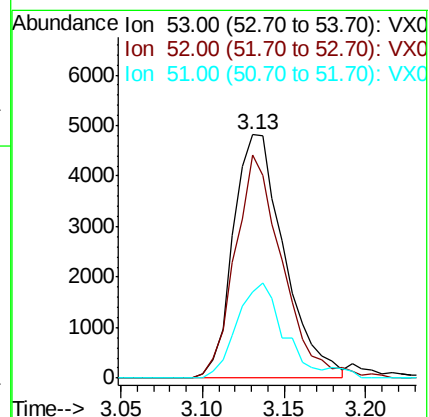
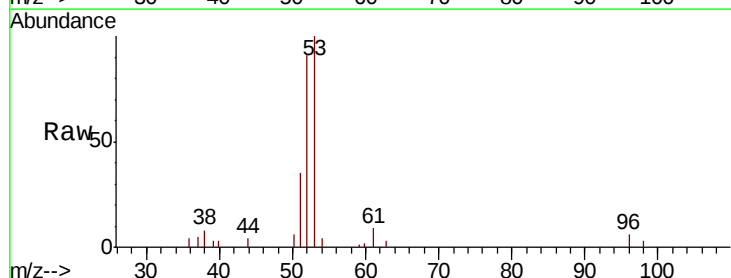
Tgt Ion: 53 Resp: 10487

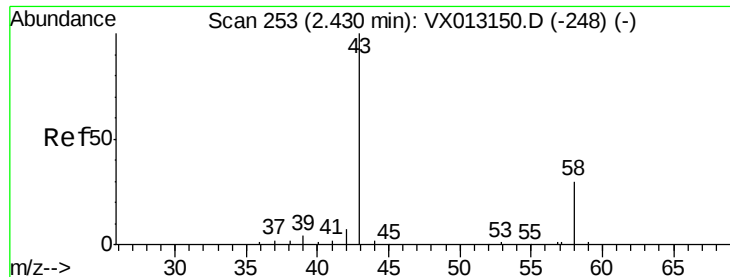
Ion Ratio Lower Upper

53 100

52 84.8 42.0 126.0

51 35.5 18.6 56.0





#15

Acetone

Concen: 11.212 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.01 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 58 Resp: 3372

Ion Ratio Lower Upper

58 100

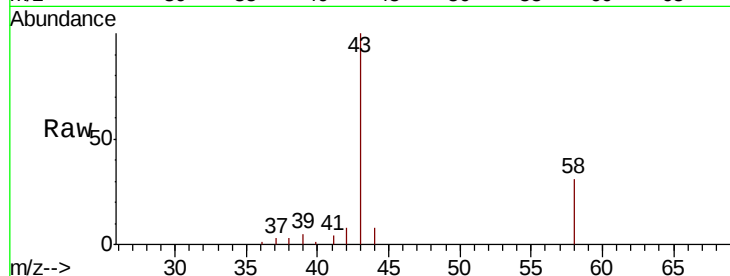
43 309.5 262.8 394.2

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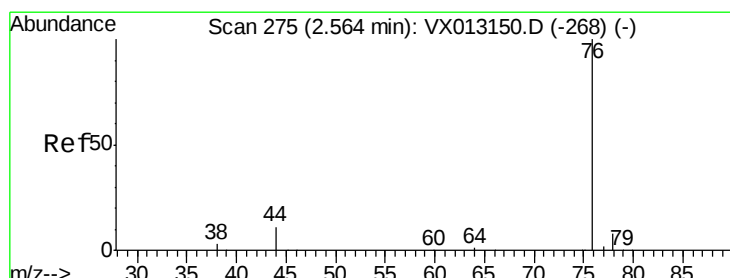
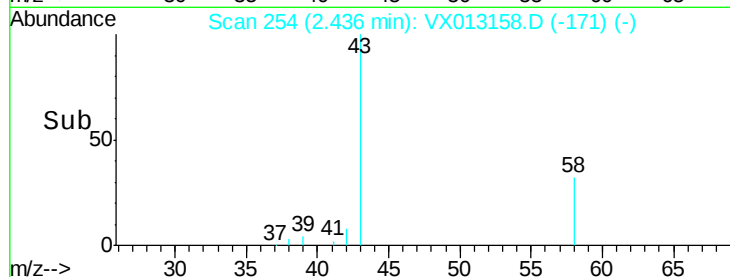
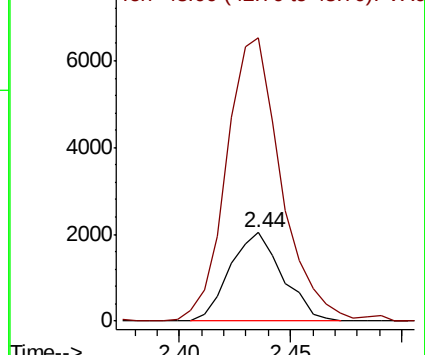
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Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0



#16

Carbon Disulfide

Concen: 2.425 ug/l

RT: 2.56 min Scan# 274

Delta R.T. -0.01 min

Lab File: VX013158.D

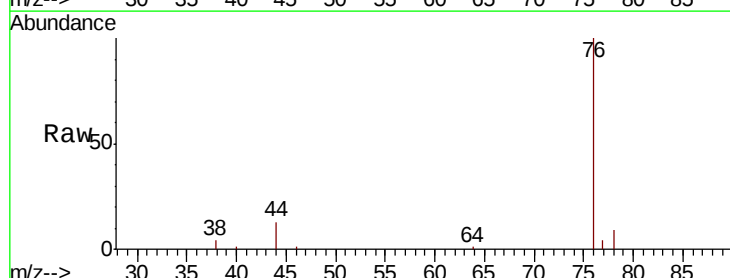
Acq: 21 Oct 2019 17:41

Tgt Ion: 76 Resp: 10948

Ion Ratio Lower Upper

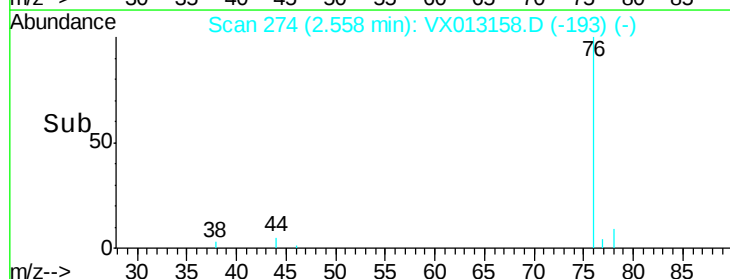
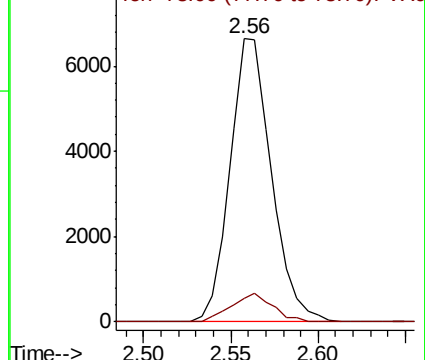
76 100

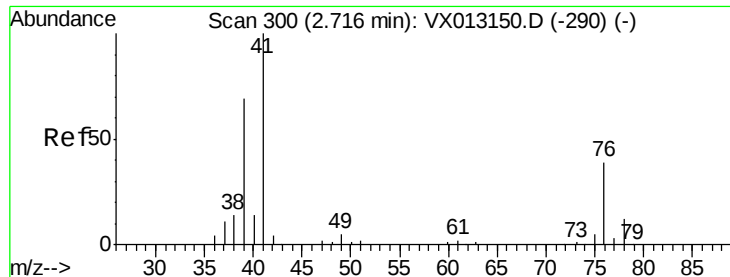
78 8.5 6.6 10.0



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0





#17

Allvl chloride

Concen: 2.323 ug/l

RT: 2.72 min Scan# 300

Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Instrument :

MSVOA_X

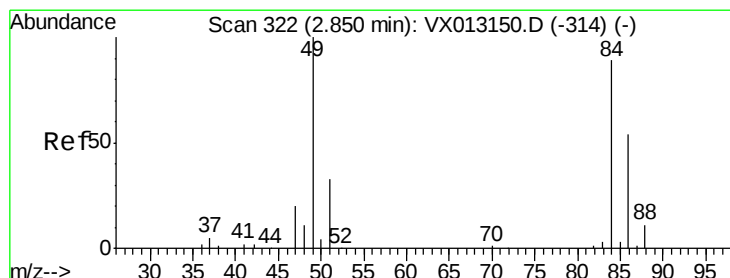
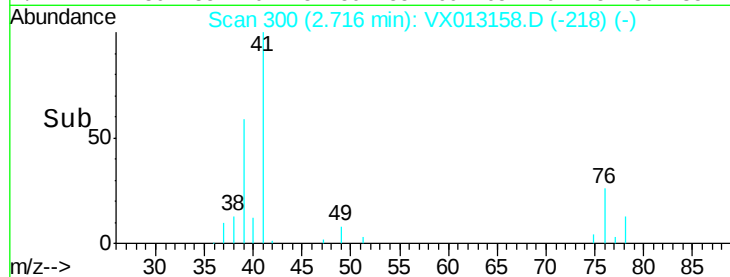
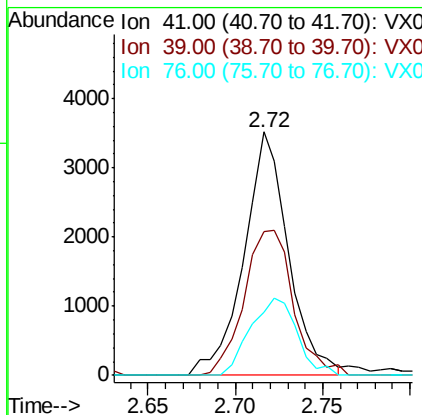
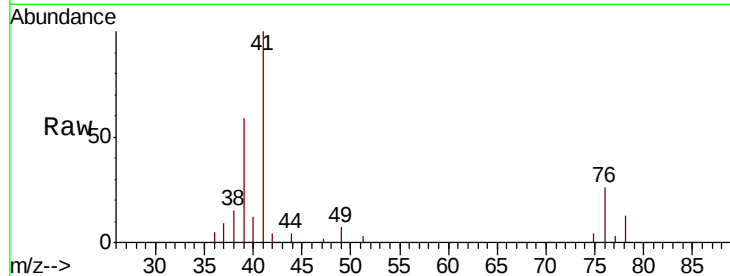
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	41	Resp:	6247
Ion	Ratio	Lower	Upper
41	100		
39	59.2	34.7	104.1
76	25.8	19.7	59.0

Manual Integrations
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#18

Methylene Chloride

Concen: 2.719 ug/l

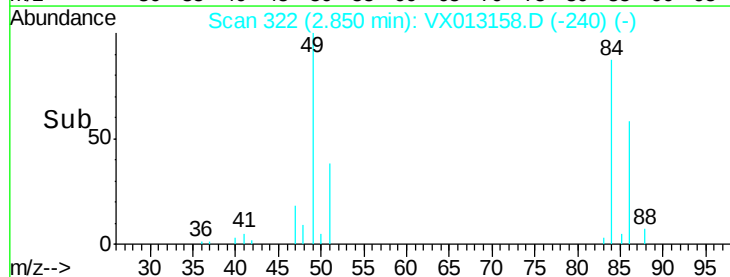
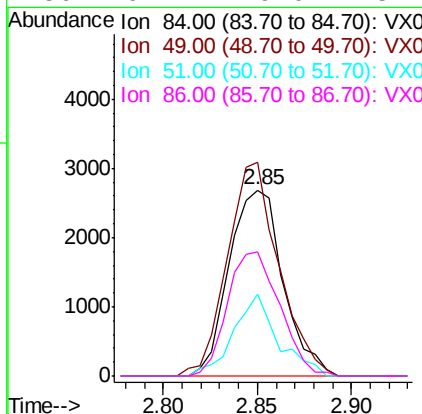
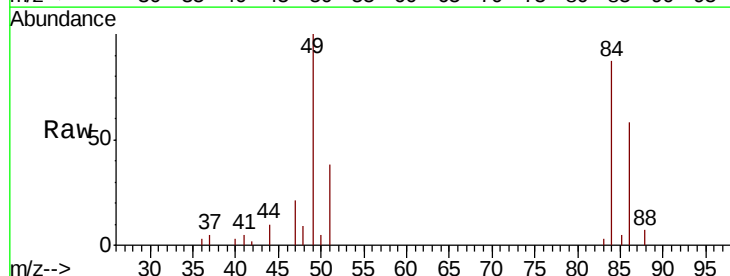
RT: 2.85 min Scan# 322

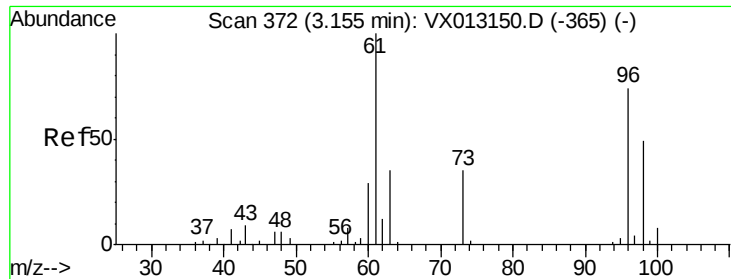
Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Tgt Ion:	84	Resp:	5322
Ion	Ratio	Lower	Upper
84	100		
49	114.9	90.3	135.5
51	44.0	29.9	44.9
86	67.1	49.0	73.4





#19

trans-1,2-Dichloroethene

Concen: 2.222 ug/l

RT: 3.15 min Scan# 371

Delta R.T. -0.01 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Instrument :

MSVOA_X

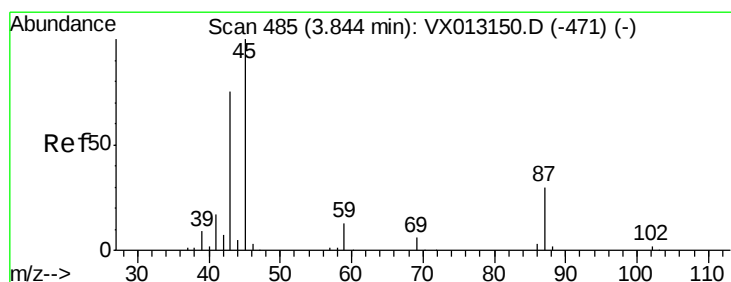
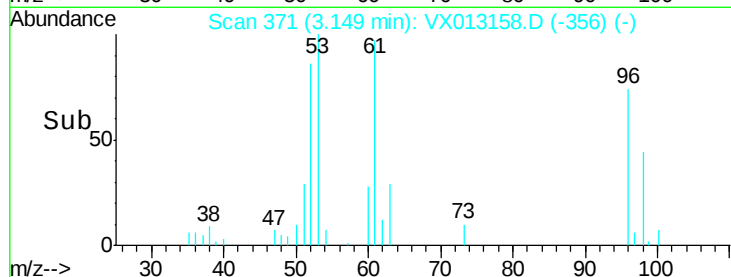
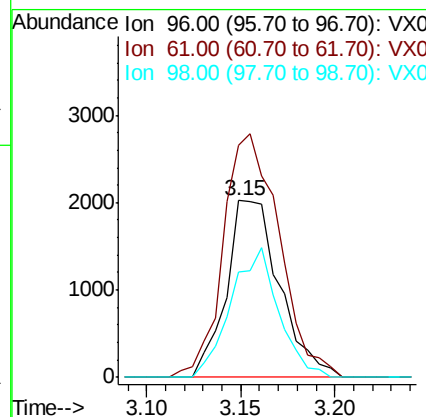
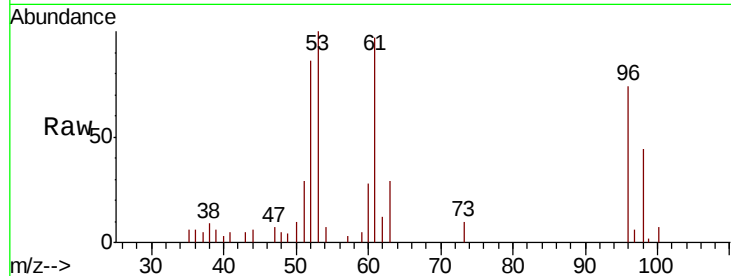
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	96	Resp:	3985
Ion	Ratio	Lower	Upper
96	100		
61	131.4	108.6	162.8
98	59.9	53.4	80.0

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#20

Diisopropyl ether

Concen: 2.342 ug/l

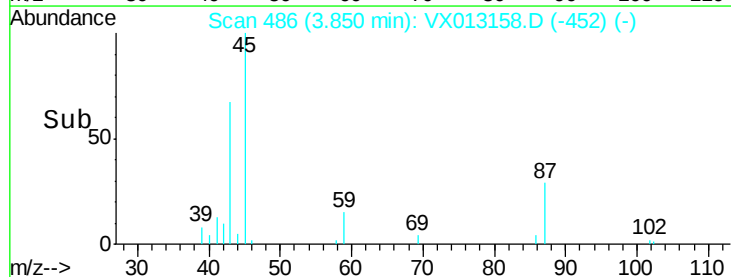
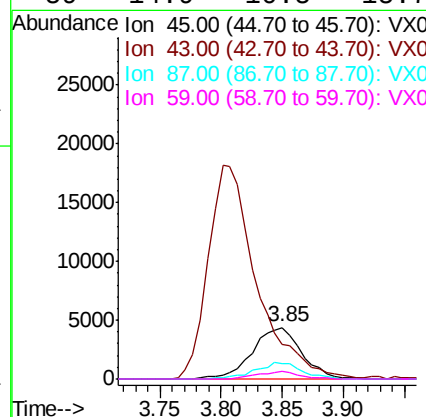
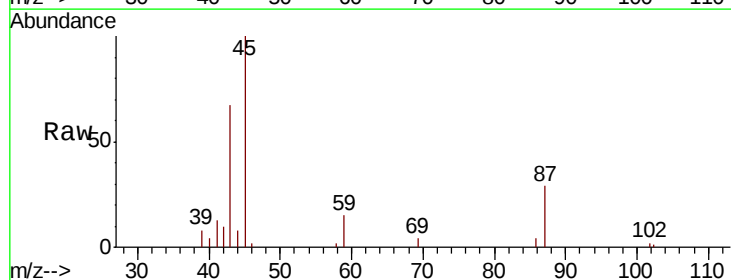
RT: 3.85 min Scan# 486

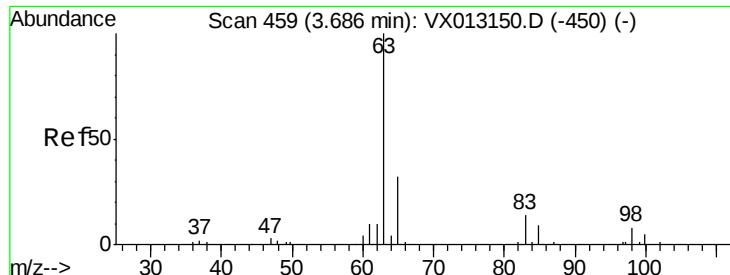
Delta R.T. 0.01 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Tgt Ion:	45	Resp:	12177
Ion	Ratio	Lower	Upper
45	100		
43	59.1	60.6	91.0#
87	28.8	24.2	36.2
59	14.9	10.5	15.7





#21

1,1-Dichloroethane

Concen: 2.215 ug/l

RT: 3.70 min Scan# 461

Delta R.T. 0.01 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Instrument :

MSVOA_X

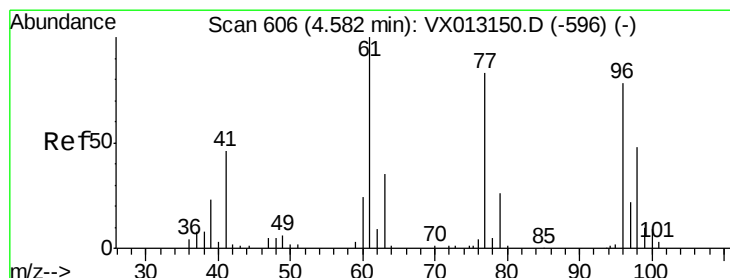
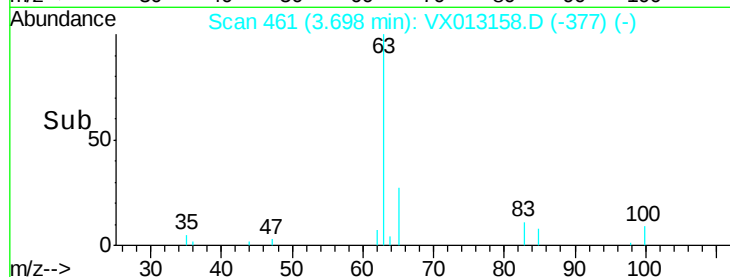
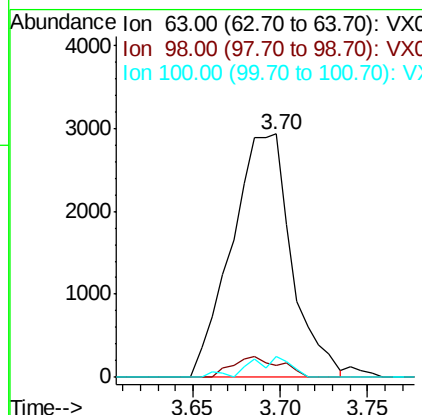
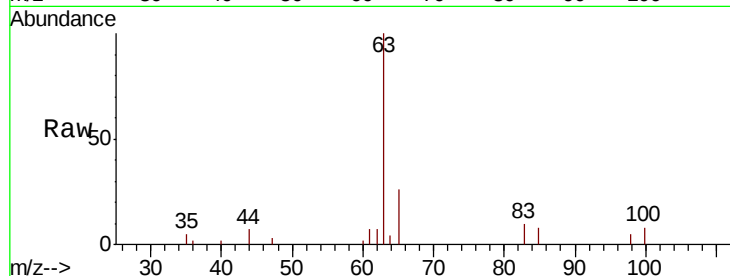
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	63	Resp:	6993
Ion	Ratio	Lower	Upper
63	100		
98	5.1	4.2	12.4
100	8.5	2.4	7.2#

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#22

cis-1,2-Dichloroethene

Concen: 2.284 ug/l

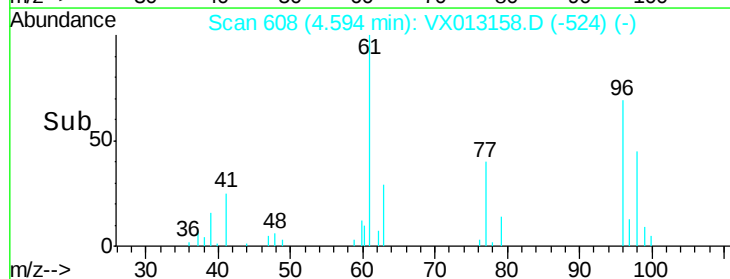
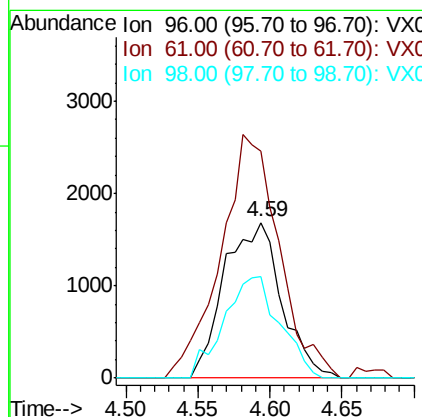
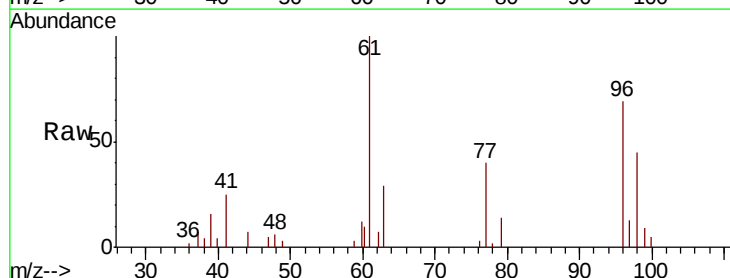
RT: 4.59 min Scan# 608

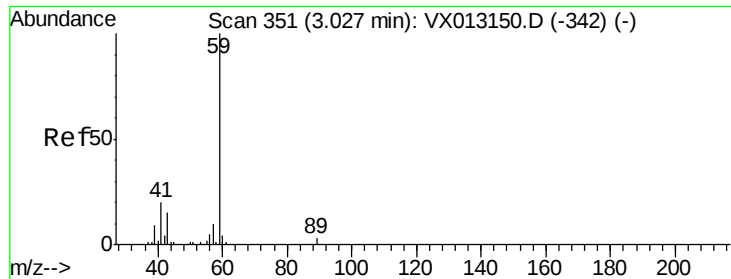
Delta R.T. 0.01 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Tgt Ion:	96	Resp:	4671
Ion	Ratio	Lower	Upper
96	100		
61	159.1	112.5	168.7
98	63.5	51.2	76.8





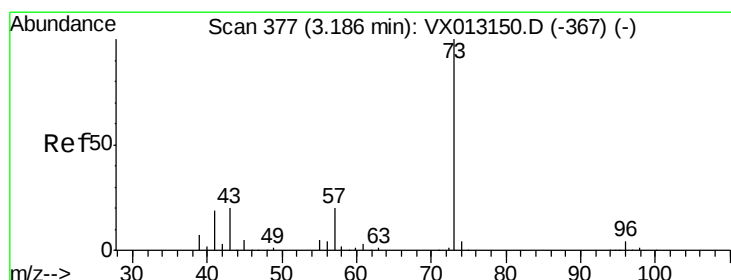
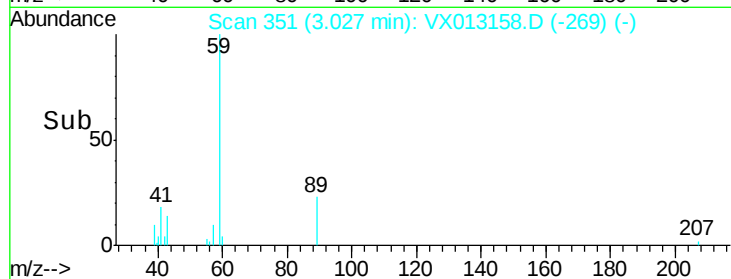
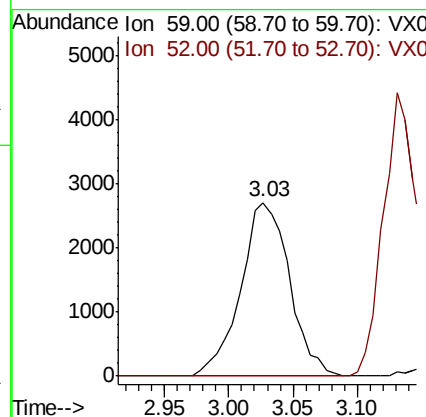
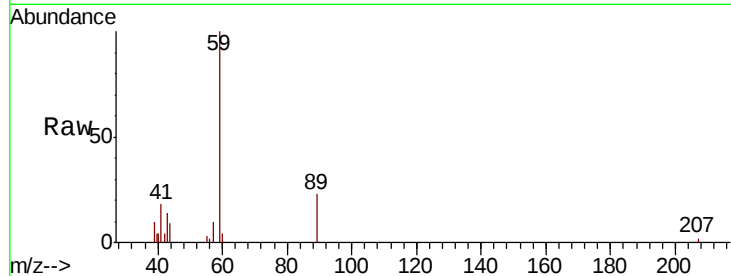
#23
 tert-Butyl Alcohol
 Concen: 14.781 ug/l
 RT: 3.03 min Scan# 351
 Delta R.T. -0.00 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	59	Resp	7109
Ion Ratio	100	Lower	Upper
52	0.0	0.0	0.0

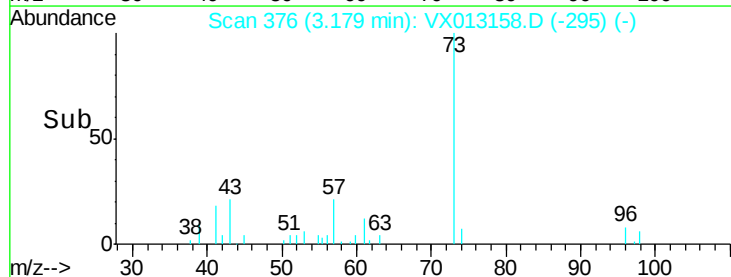
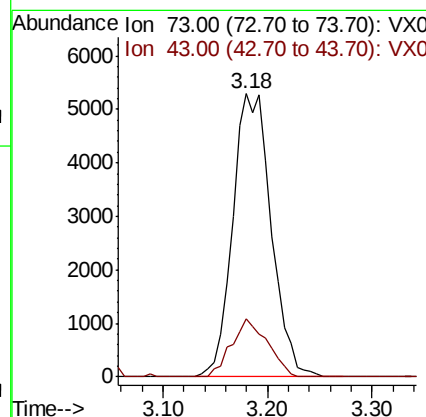
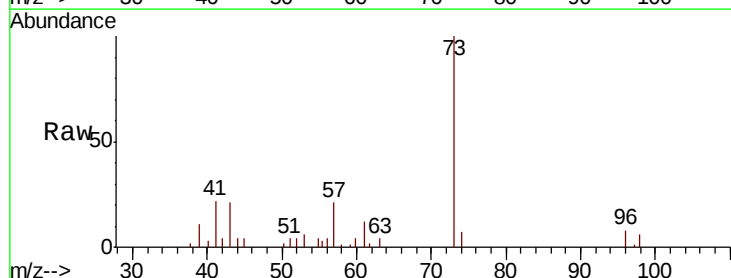
Manual Integrations
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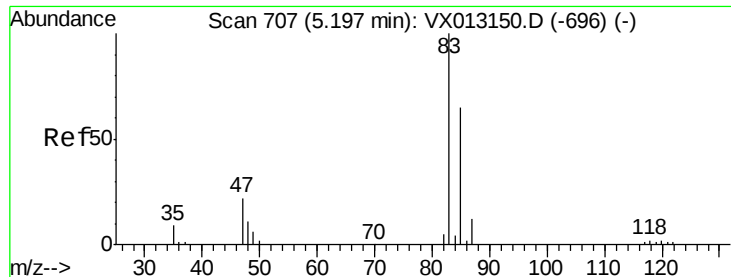
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#24
 Methyl tert-Butyl Ether
 Concen: 2.302 ug/l m
 RT: 3.18 min Scan# 376
 Delta R.T. -0.01 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Tgt Ion	73	Resp	13418
Ion Ratio	100	Lower	Upper
43	19.2	17.1	25.7





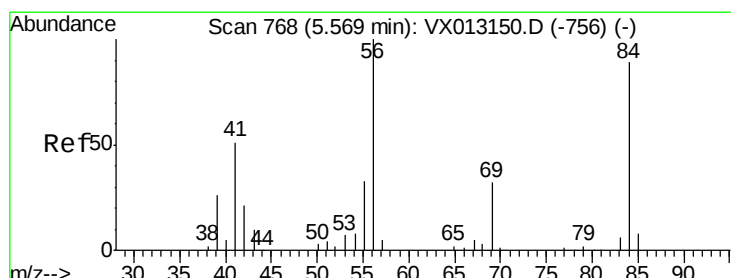
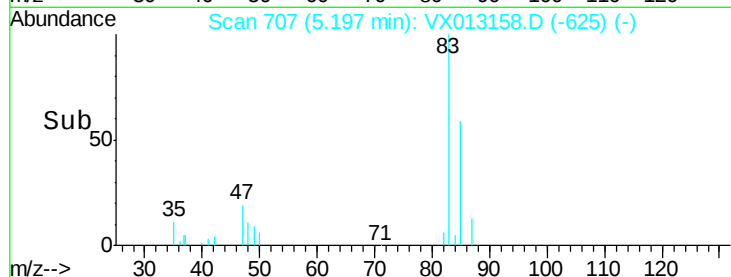
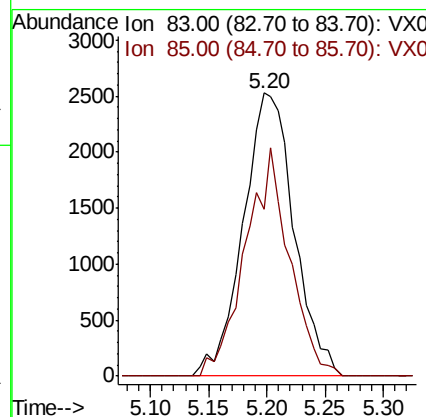
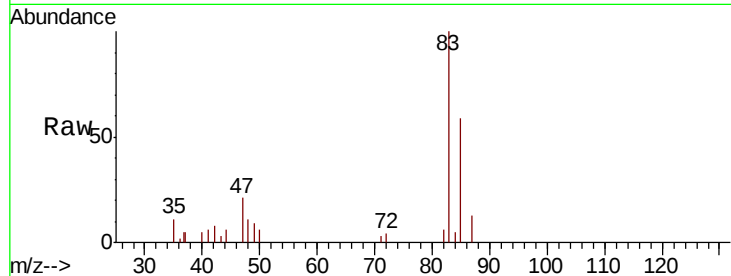
#25
Chloroform
Concen: 2.311 ug/l
RT: 5.20 min Scan# 707
Delta R.T. -0.00 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	83	Resp	7667
Ion Ratio	100	Lower	Upper
85	59.2	52.0	78.0

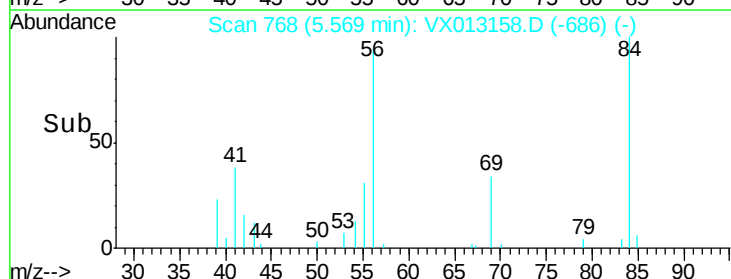
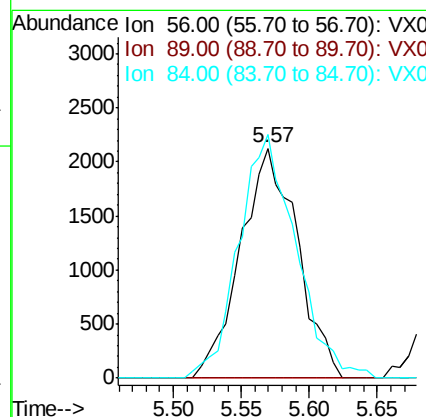
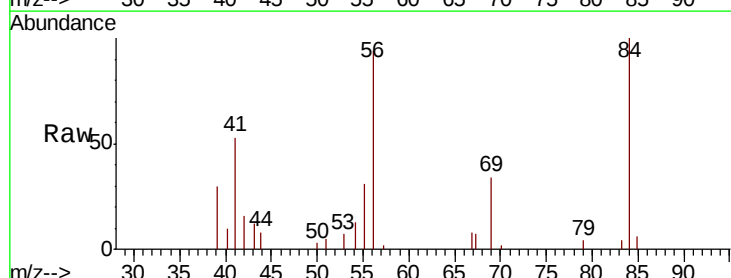
Manual Integrations
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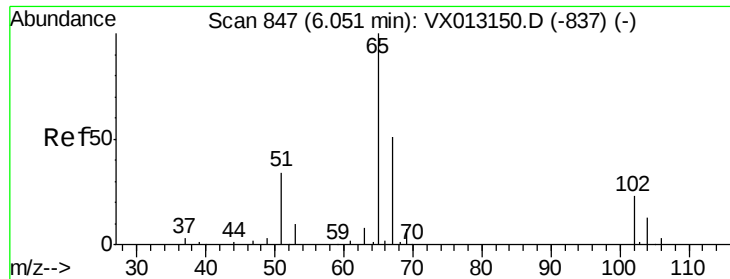
MMDadoda
10/22/2019 12:32:08 PM



#26
Cyclohexane
Concen: 2.238 ug/l
RT: 5.57 min Scan# 768
Delta R.T. -0.00 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Tgt Ion	56	Resp	6200
Ion Ratio	100	Lower	Upper
89	0.0	0.2	0.2#
84	104.9	74.0	111.0





#27

1,2-Dichloroethane-d4

Concen: 29.584 ug/l

RT: 6.05 min Scan# 847

Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Tot Ion: 65 Resp: 64171

Ion Ratio Lower Upper

65 100

67 51.9 42.2 63.4

Instrument :

MSVOA_X

ClientSampleId :

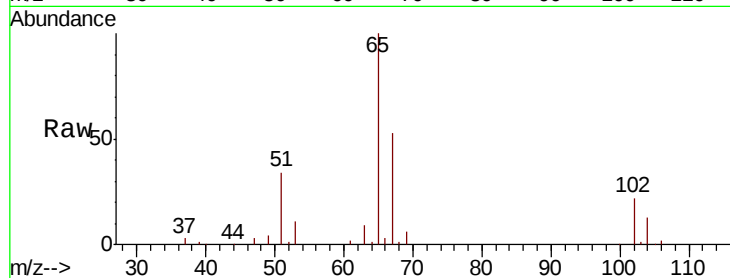
MDL-MDL-WATER-03-QT4-2019DL

Manual Integrations

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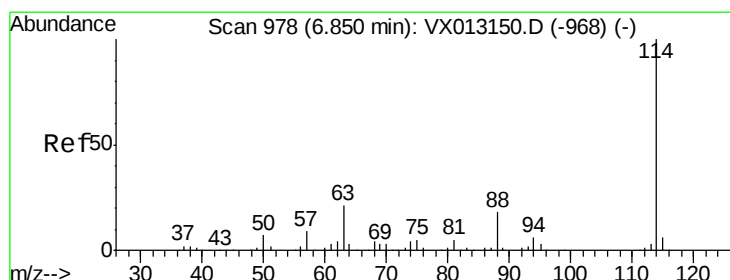
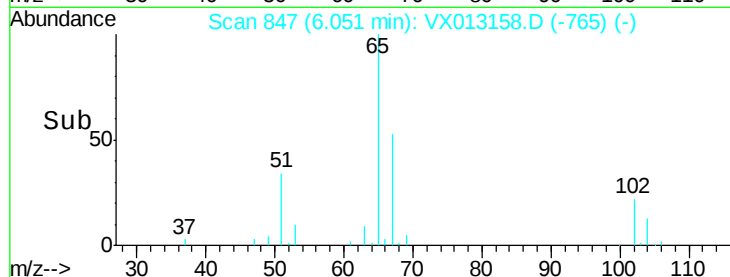
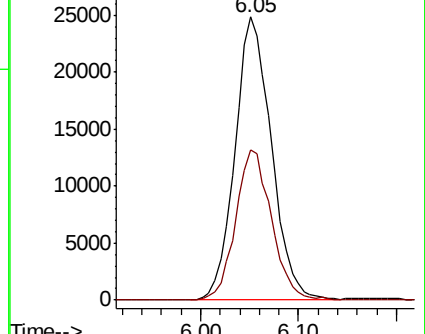
MMDadoda

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Abundance Ion 65.00 (64.70 to 65.70): VX0

Ion 67.00 (66.70 to 67.70): VX0



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

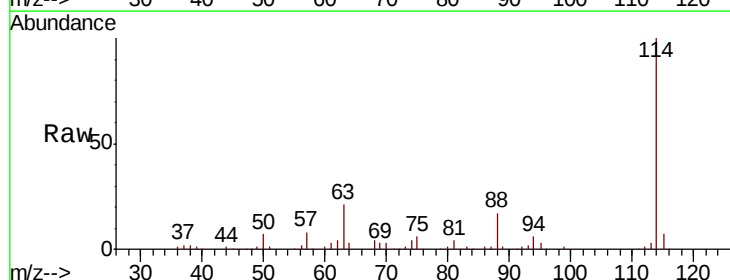
Tgt Ion: 114 Resp: 155966

Ion Ratio Lower Upper

114 100

63 20.3 16.1 24.1

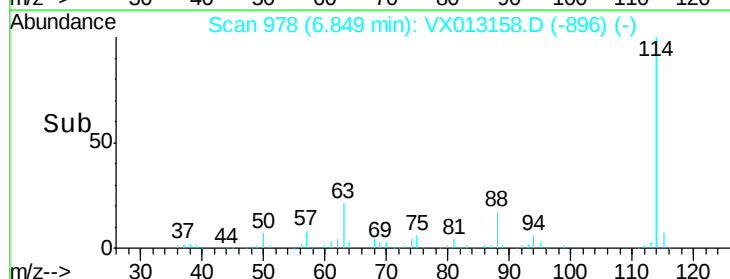
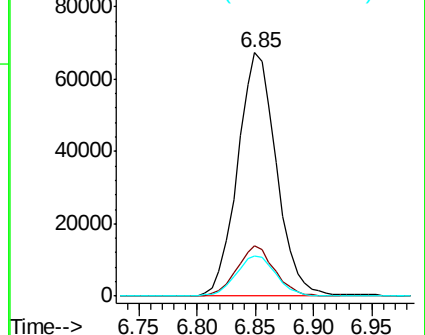
88 17.0 13.7 20.5

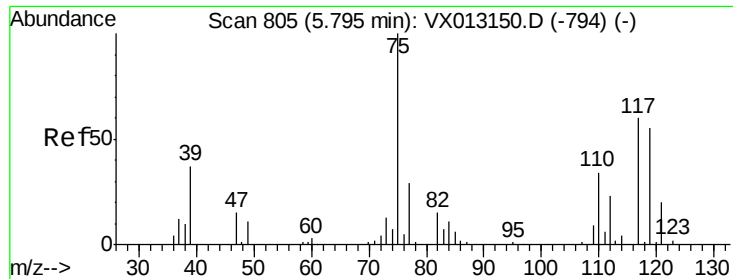


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 88.00 (87.70 to 88.70): VX0





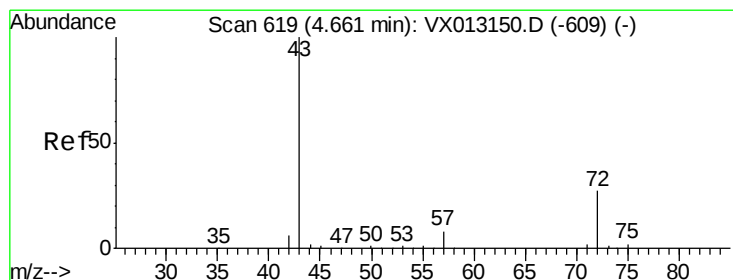
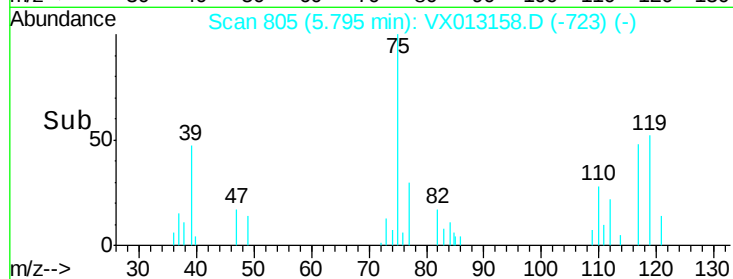
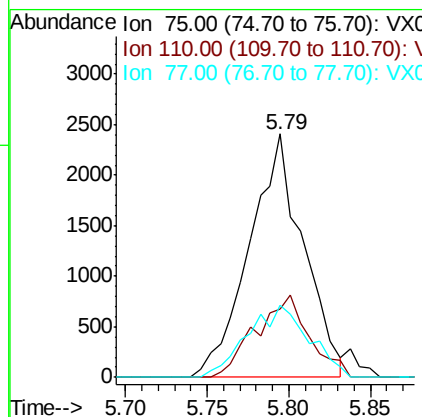
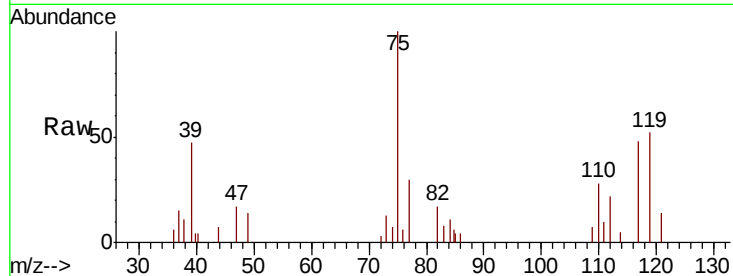
#29
 1,1-Dichloropropene
 Concen: 2.292 ug/l
 RT: 5.79 min Scan# 805
 Delta R.T. -0.00 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
75	100		
110	33.5	0.0	68.4
77	33.8	0.0	30.8#

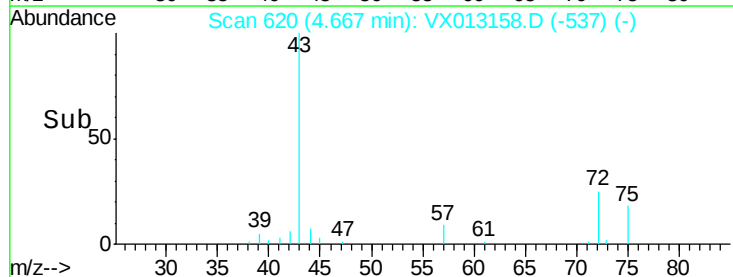
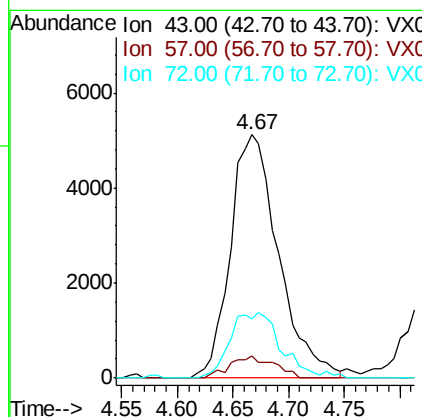
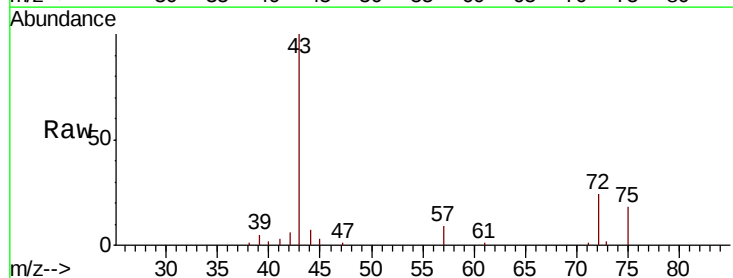
Manual Integrations
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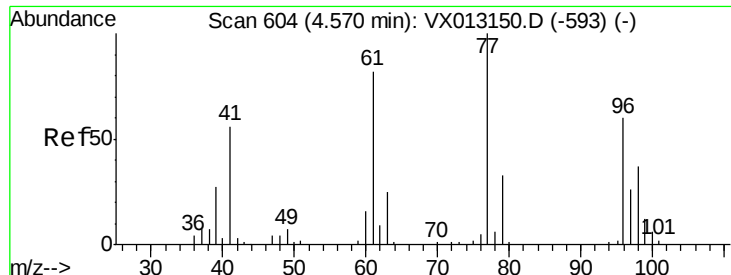
MMDadoda
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#30
 2-Butanone
 Concen: 12.068 ug/l
 RT: 4.67 min Scan# 620
 Delta R.T. 0.01 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Tgt Ion	Ratio	Lower	Upper
43	100		
57	0.8	7.0	10.6#
72	0.0	23.4	35.2#





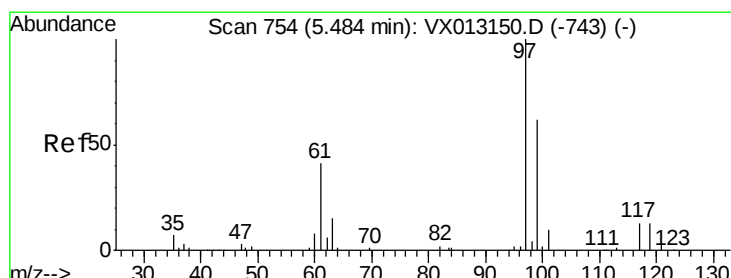
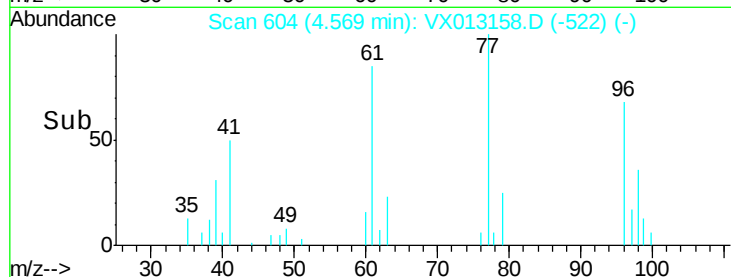
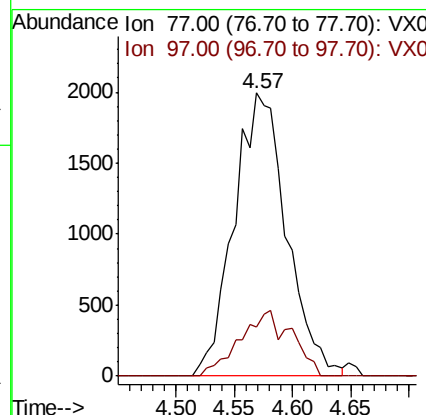
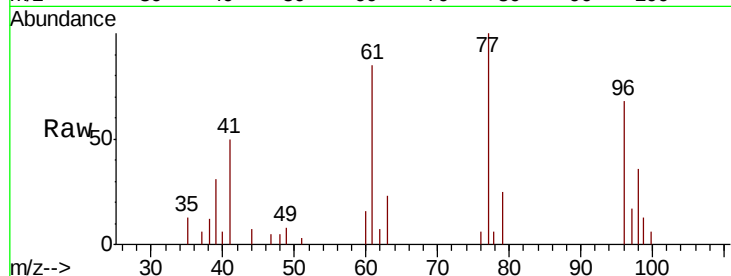
#31
 2,2-Dichloropropane
 Concen: 2.240 ug/l
 RT: 4.57 min Scan# 604
 Delta R.T. -0.00 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 77 Resp: 6276
 Ion Ratio Lower Upper
 77 100
 97 16.1 19.1 28.7#

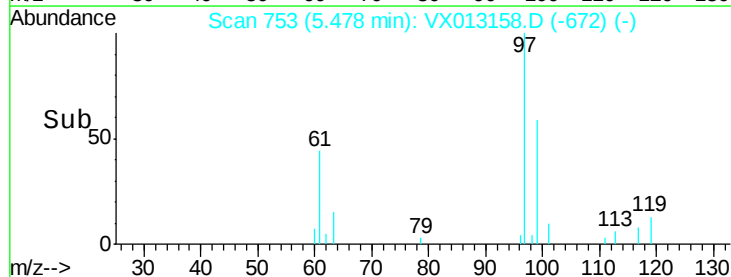
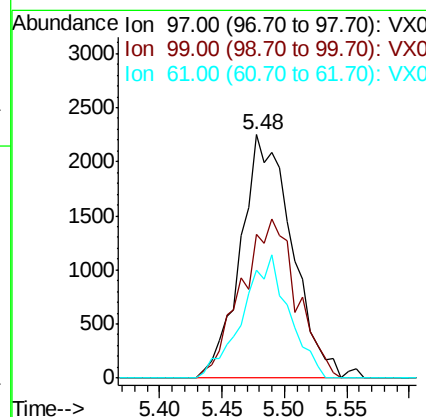
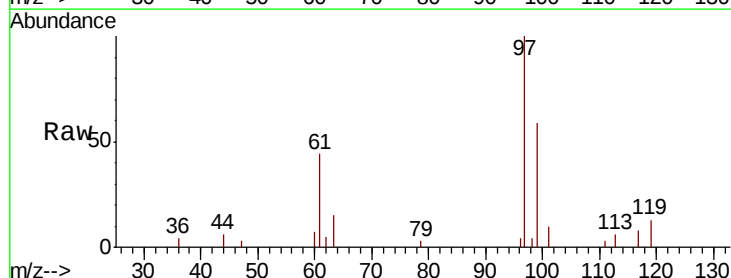
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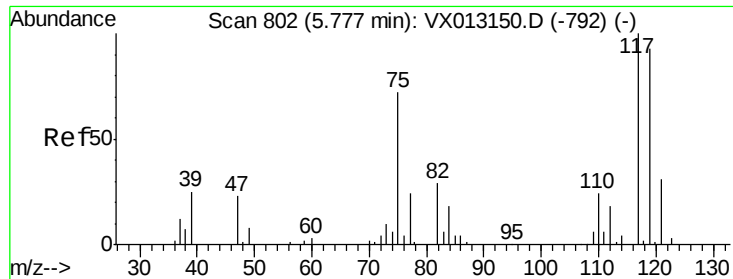
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#32
 1,1,1-Trichloroethane
 Concen: 2.179 ug/l m
 RT: 5.48 min Scan# 753
 Delta R.T. -0.01 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Tgt Ion: 97 Resp: 6389
 Ion Ratio Lower Upper
 97 100
 99 70.6 51.8 77.8
 61 45.7 33.5 50.3





#33

Carbon Tetrachloride

Concen: 2.206 ug/l

RT: 5.78 min Scan# 802

Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Instrument :

MSVOA_X

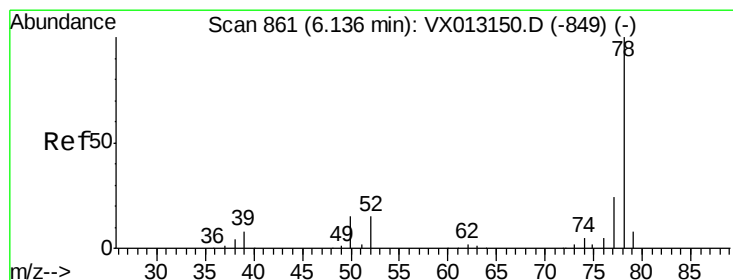
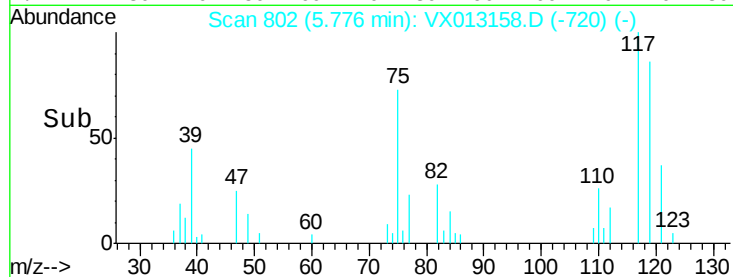
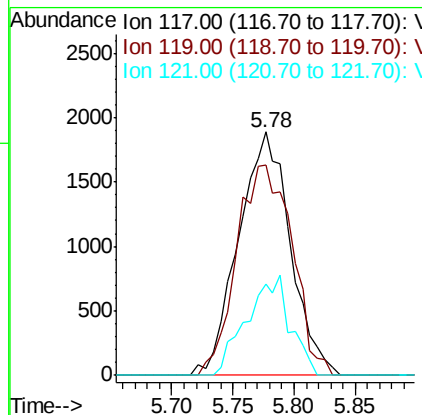
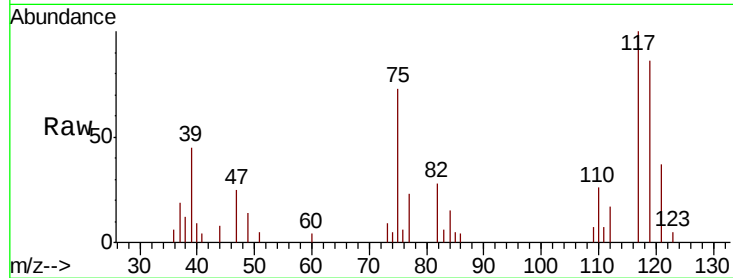
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	117	Resp:	5560
Ion	Ratio	Lower	Upper
117	100		
119	86.4	74.9	112.3
121	37.4	25.0	37.4

Manual Integrations
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#34

Benzene

Concen: 2.415 ug/l

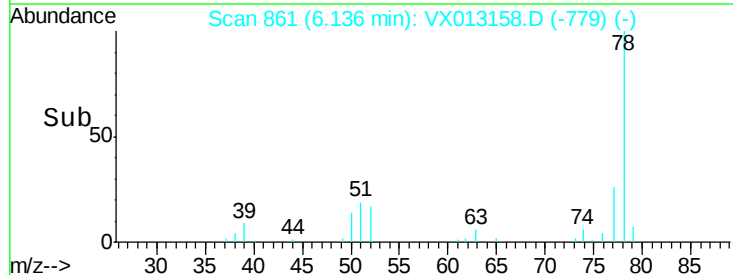
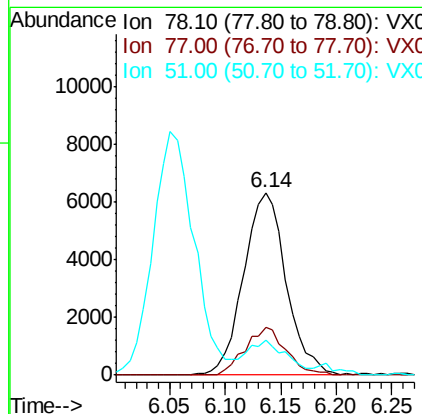
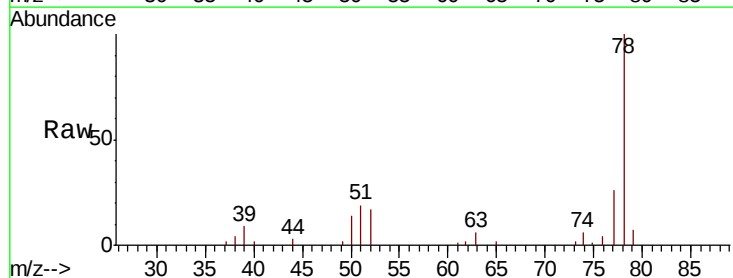
RT: 6.14 min Scan# 861

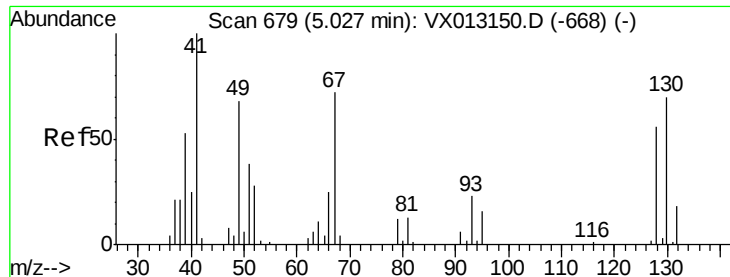
Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Tgt Ion:	78	Resp:	16842
Ion	Ratio	Lower	Upper
78	100		
77	26.4	19.3	28.9
51	15.7	11.4	17.2





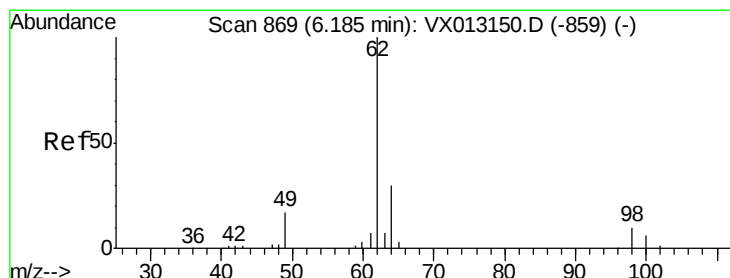
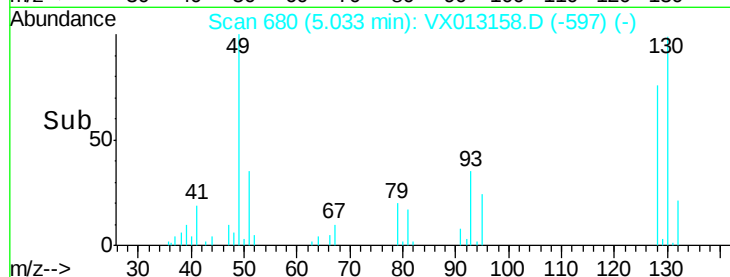
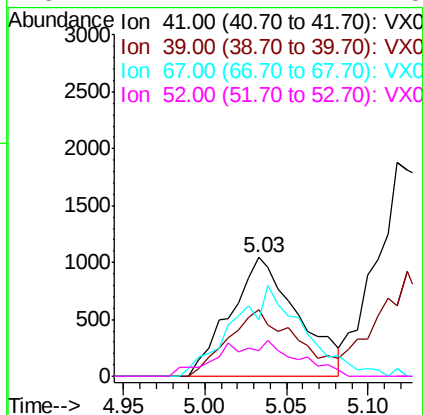
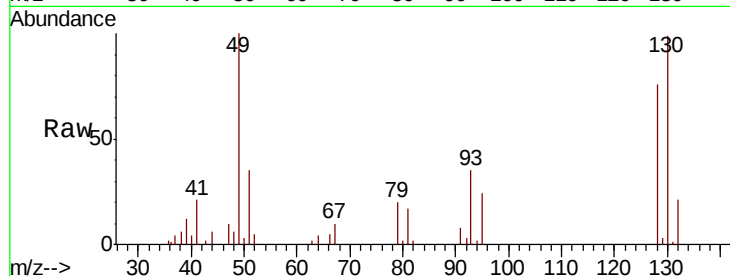
#35
Methacrylonitrile
Concen: 2.307 ug/l
RT: 5.03 min Scan# 680
Delta R.T. 0.01 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	41	Resp:	3007
Ion	Ratio	Lower	Upper
41	100		
39	56.0	26.3	78.9
67	40.3	35.8	107.4
52	17.1	14.1	42.3

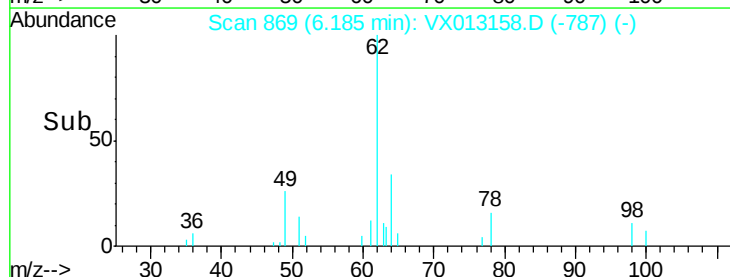
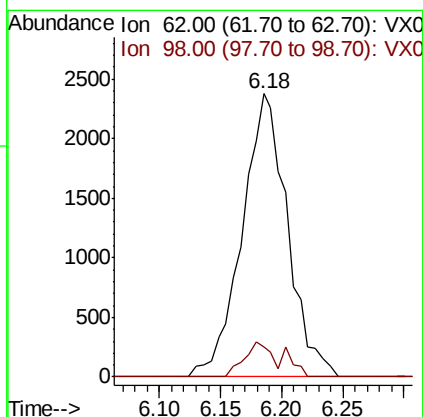
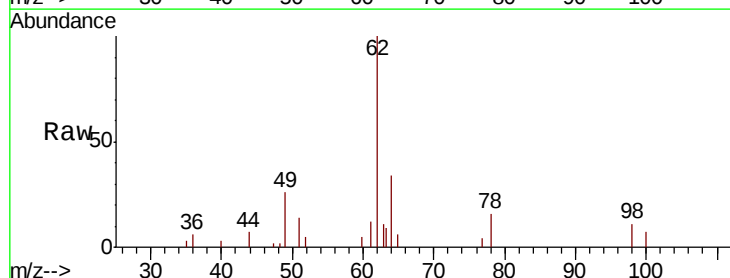
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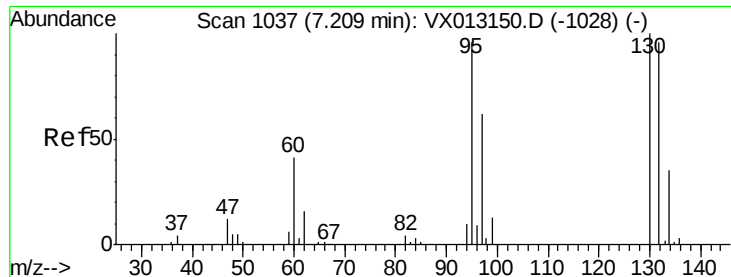
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#36
1,2-Dichloroethane
Concen: 2.327 ug/l
RT: 6.18 min Scan# 869
Delta R.T. -0.00 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Tgt Ion:	62	Resp:	6137
Ion	Ratio	Lower	Upper
62	100		
98	7.3	8.0	12.0#





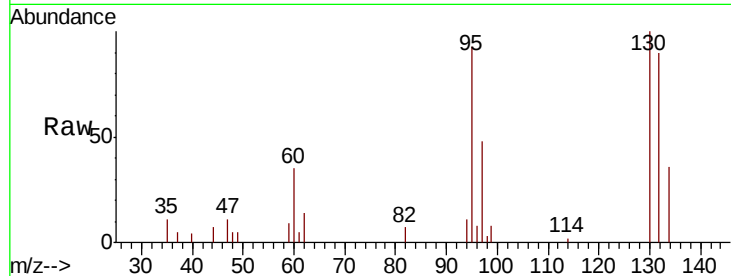
#37
 Trichloroethene
 Concen: 2.430 ug/l
 RT: 7.20 min Scan# 1036
 Delta R.T. -0.01 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

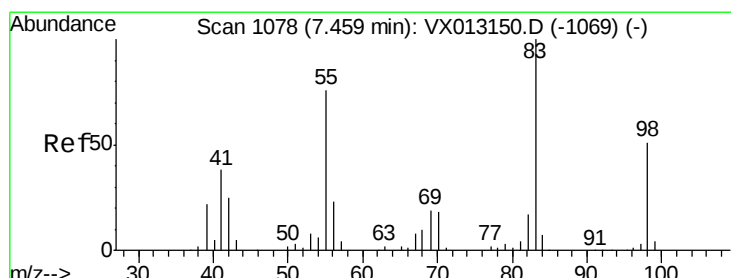
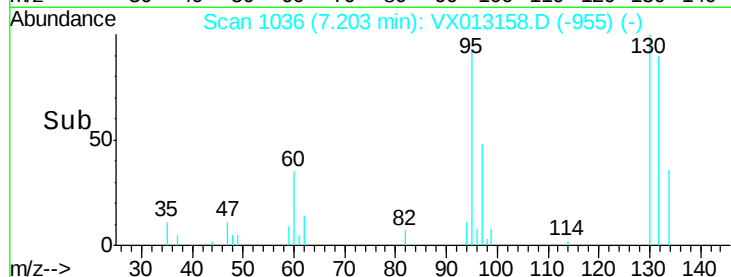
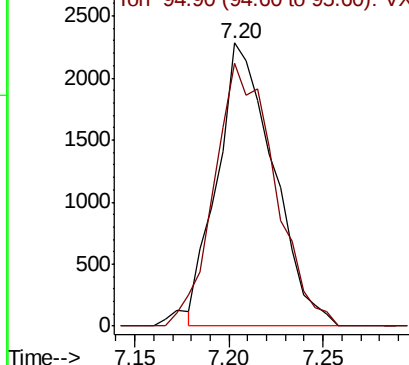
Tot Ion:130 Resp: 4702
 Ion Ratio Lower Upper
 130 100
 95 92.9 77.0 115.6

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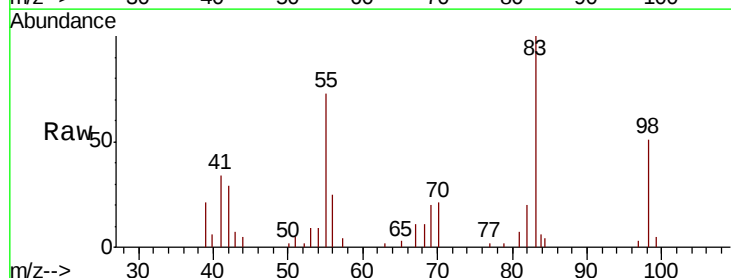


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VX0

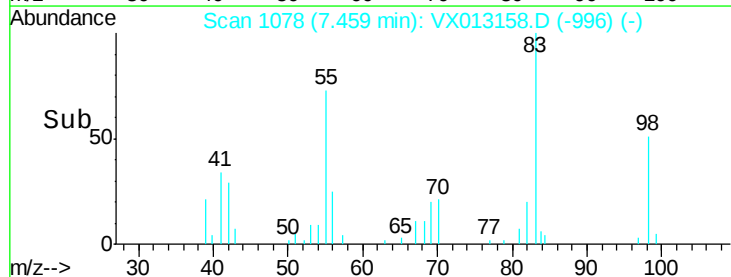
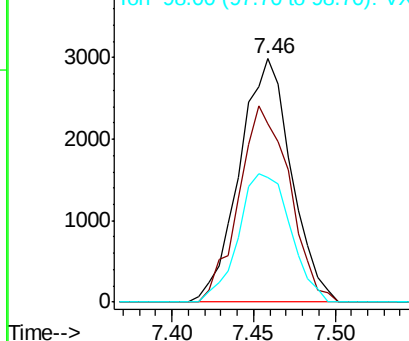


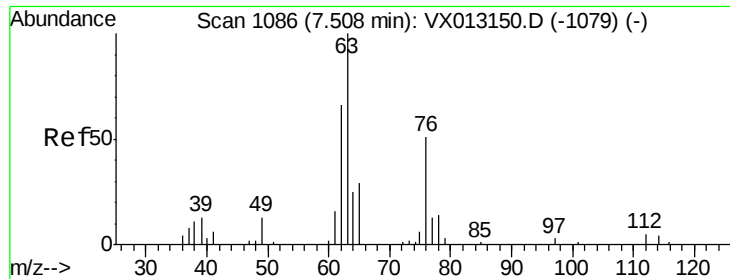
#38
 Methylcyclohexane
 Concen: 2.237 ug/l
 RT: 7.46 min Scan# 1078
 Delta R.T. -0.00 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Tgt Ion: 83 Resp: 6610
 Ion Ratio Lower Upper
 83 100
 55 79.0 37.5 112.5
 98 52.7 25.4 76.0



Abundance Ion 83.00 (82.70 to 83.70): VX0
 Ion 55.00 (54.70 to 55.70): VX0
 Ion 98.00 (97.70 to 98.70): VX0





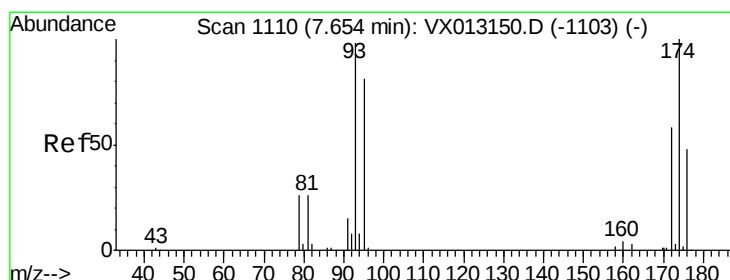
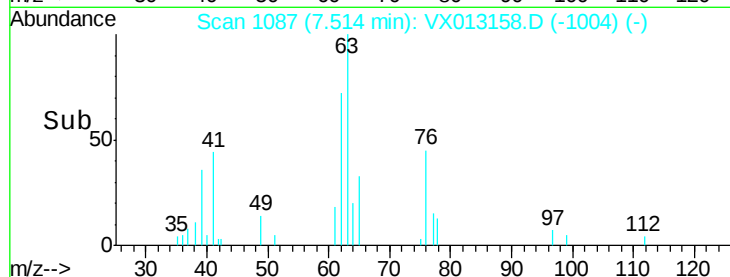
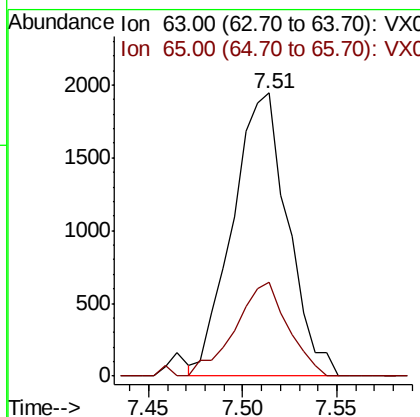
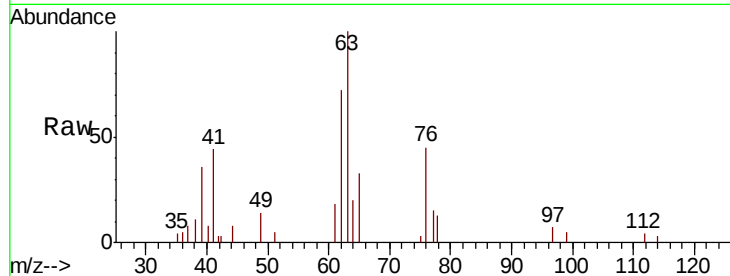
#39
 1,2-Dichloropropane
 Concen: 2.315 ug/l
 RT: 7.51 min Scan# 1087
 Delta R.T. 0.01 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 63 Resp: 3963
 Ion Ratio Lower Upper
 63 100
 65 33.4 24.8 37.2

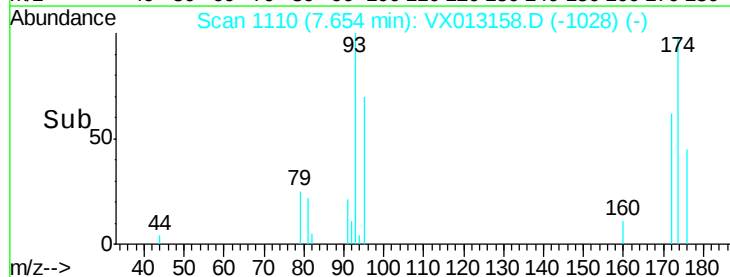
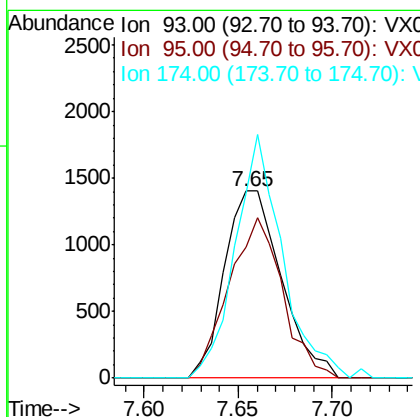
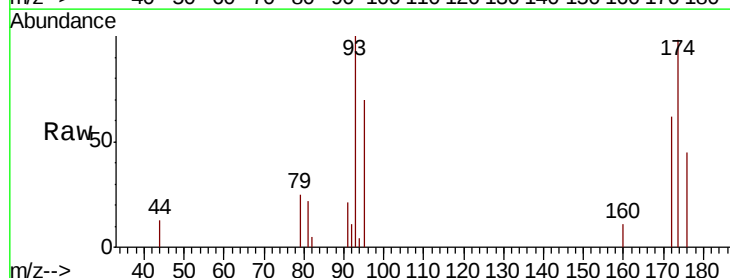
Manual Integrations
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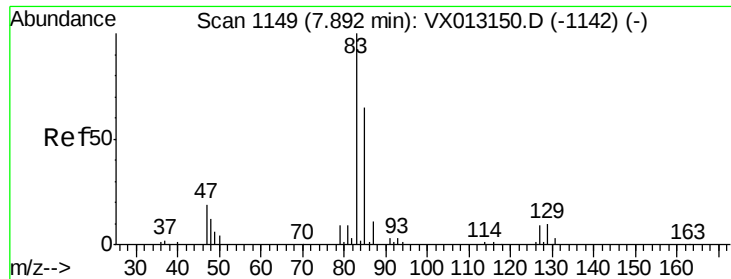
MMDadoda
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#40
 Dibromomethane
 Concen: 2.406 ug/l
 RT: 7.65 min Scan# 1110
 Delta R.T. -0.00 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Tgt Ion: 93 Resp: 2942
 Ion Ratio Lower Upper
 93 100
 95 80.8 0.0 166.0
 174 107.5 0.0 208.8





#41

Bromodichloromethane

Concen: 2.118 ug/l

RT: 7.89 min Scan# 1149

Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Instrument :

MSVOA_X

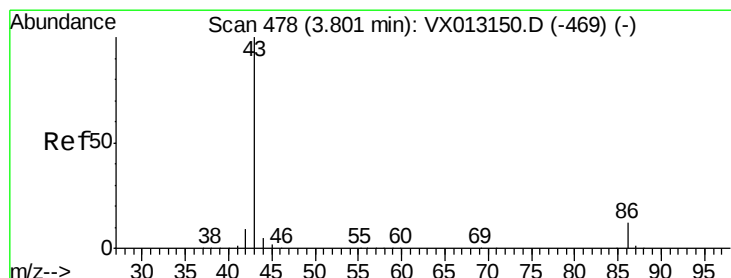
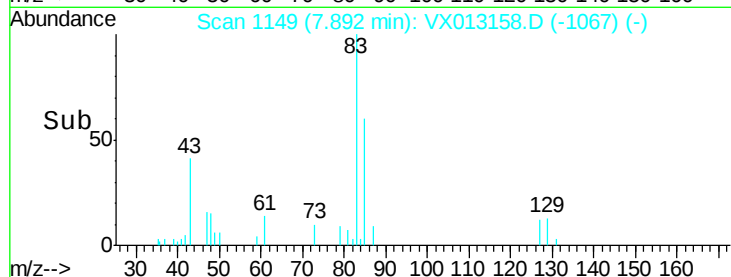
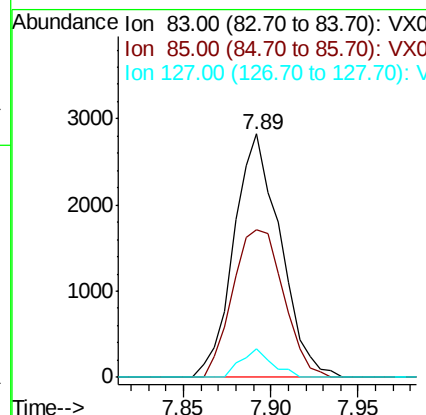
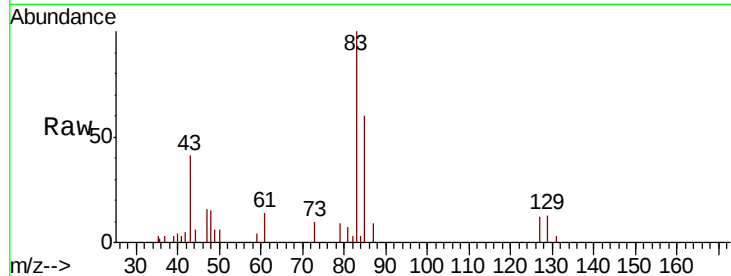
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	83	Resp:	5223
Ion	Ratio	Lower	Upper
83	100		
85	60.5	52.1	78.1
127	11.9	7.5	11.3#

Manual Integrations
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#42

Vinyl Acetate

Concen: 11.361 ug/l

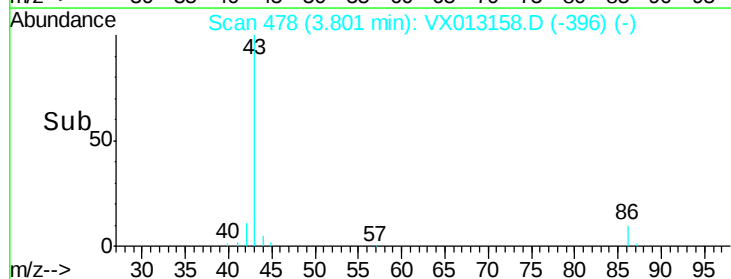
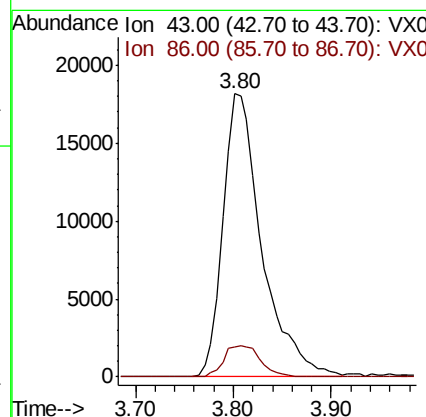
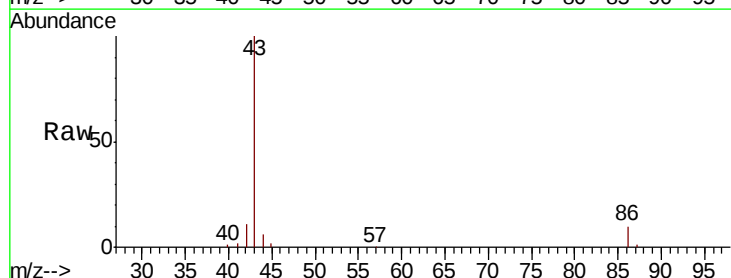
RT: 3.80 min Scan# 478

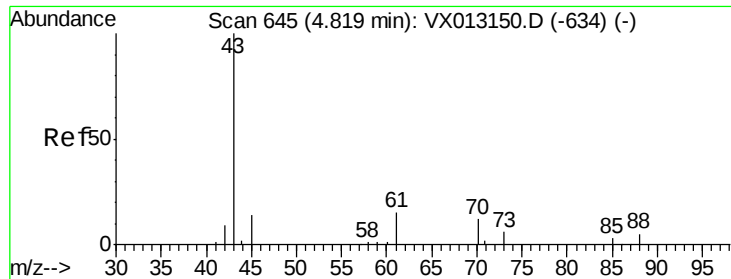
Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Tgt Ion:	43	Resp:	50070
Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.6	12.8





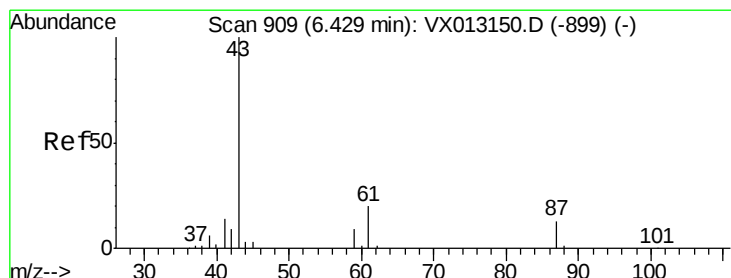
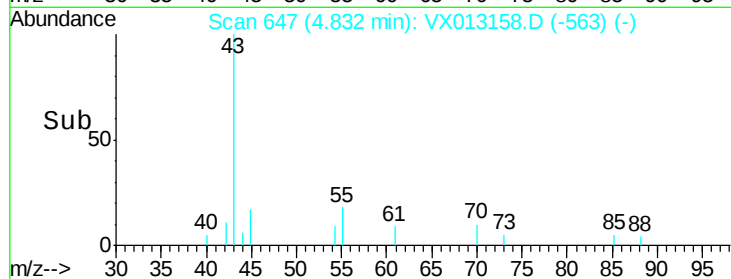
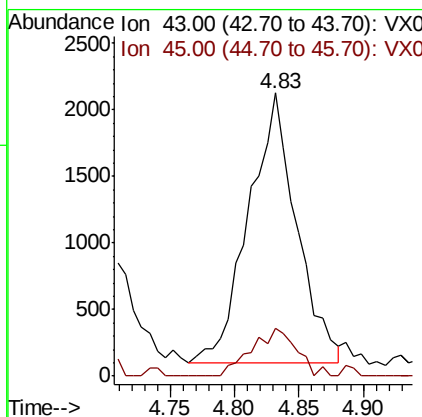
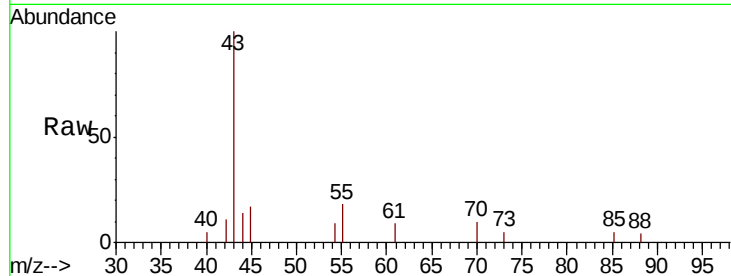
#43
Ethyl Acetate
Concen: 2.270 ug/l
RT: 4.83 min Scan# 647
Delta R.T. 0.01 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 43 Resp: 5261
Ion Ratio Lower Upper
43 100
45 16.1 12.6 18.8

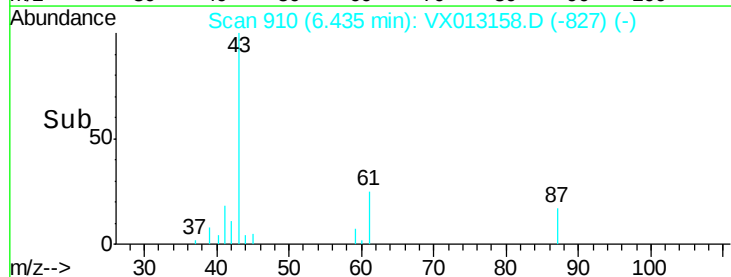
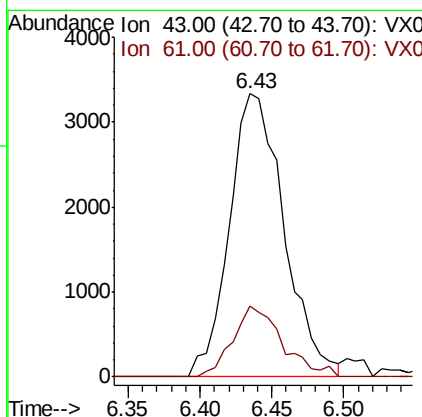
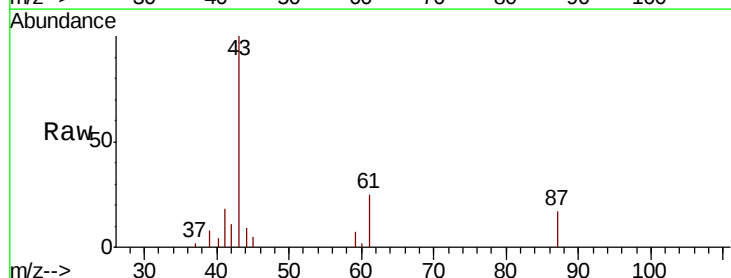
Manual Integrations
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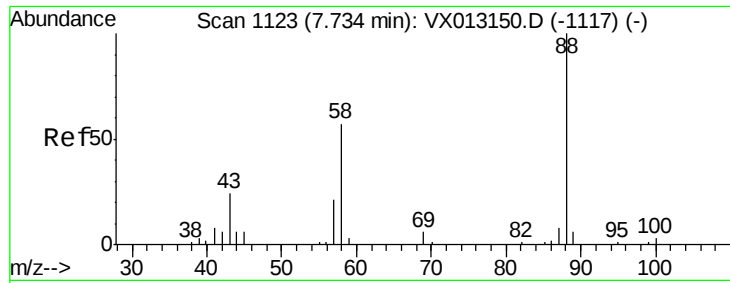
MMDadoda
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#44
Isopropyl Acetate
Concen: 2.267 ug/l
RT: 6.43 min Scan# 910
Delta R.T. 0.01 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Tgt Ion: 43 Resp: 8833
Ion Ratio Lower Upper
43 100
61 19.3 16.8 25.2





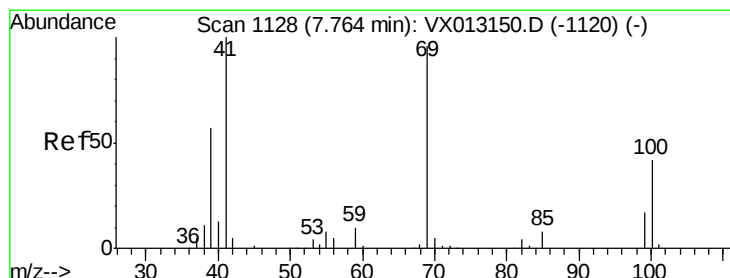
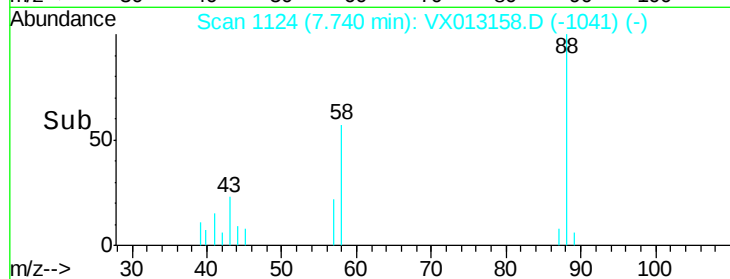
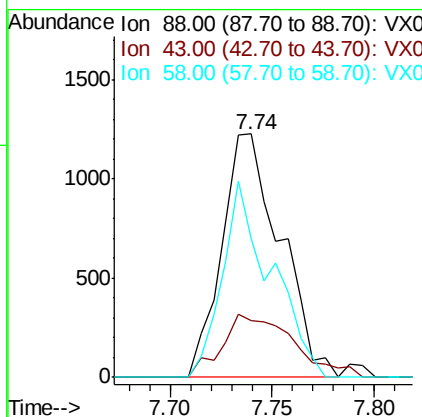
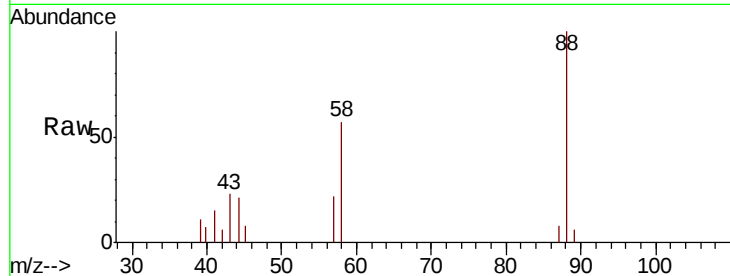
#45
 1,4-Dioxane
 Concen: 49.543 ug/l
 RT: 7.74 min Scan# 1124
 Delta R.T. 0.01 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.4	24.0	36.0
58	47.6	52.8	79.2#

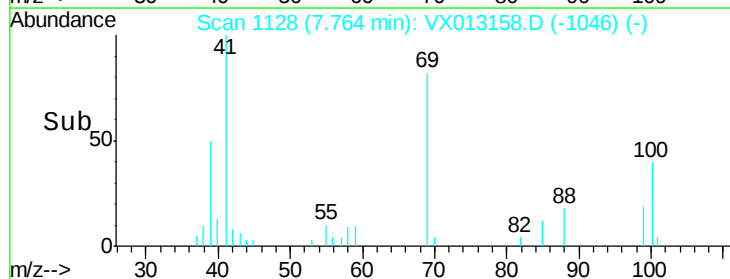
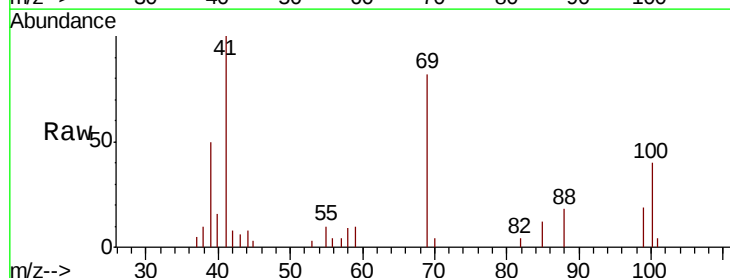
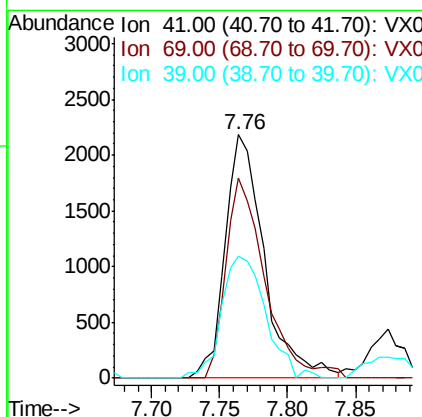
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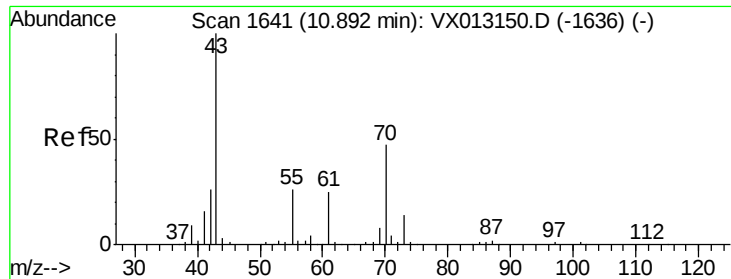
MMDadoda
 10/22/2019 12:32:08 PM



#46
 Methyl methacrylate
 Concen: 2.285 ug/l
 RT: 7.76 min Scan# 1128
 Delta R.T. -0.00 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Tgt Ion	Ratio	Lower	Upper
41	100		
69	82.0	47.8	143.3
39	50.2	28.5	85.5





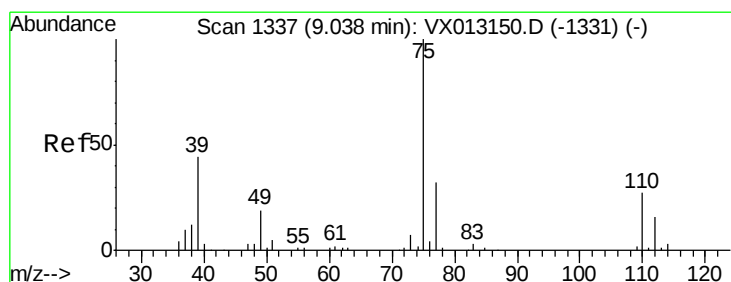
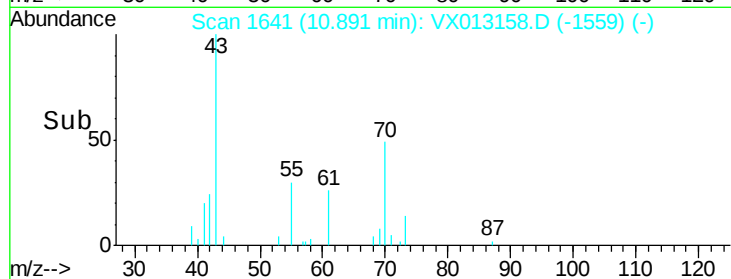
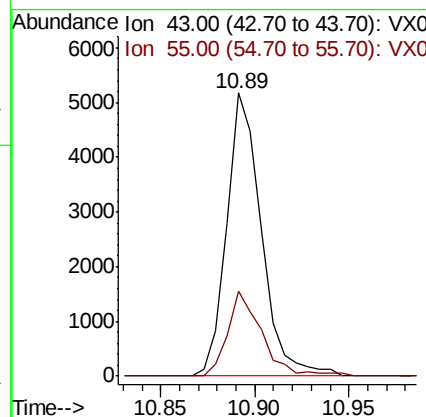
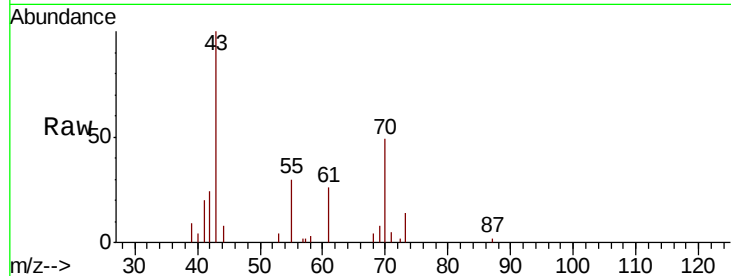
#47
n-amvl Acetate
Concen: 2.011 ug/l
RT: 10.89 min Scan# 1641
Delta R.T. -0.00 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 43 Resp: 6604
Ion Ratio Lower Upper
43 100
55 28.3 20.9 31.3

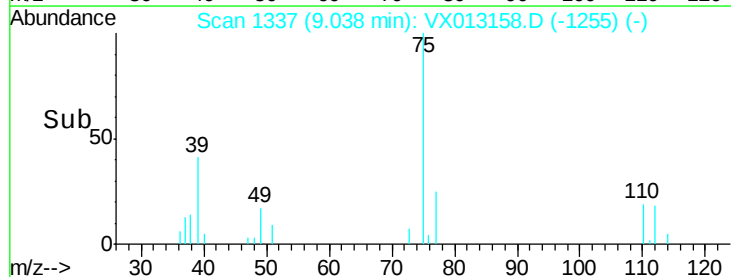
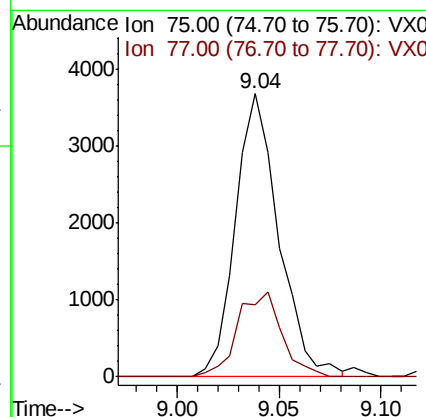
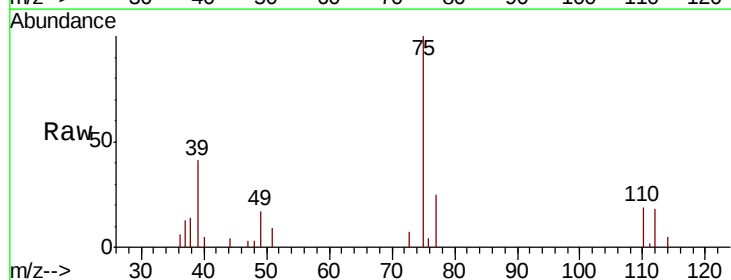
Manual Integrations
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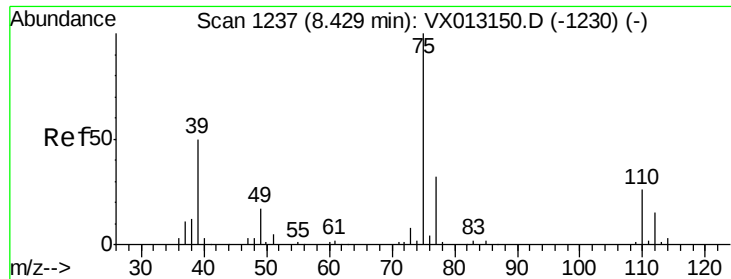
MMDadoda
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#48
t-1,3-Dichloropropene
Concen: 2.003 ug/l
RT: 9.04 min Scan# 1337
Delta R.T. -0.00 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Tgt Ion: 75 Resp: 5418
Ion Ratio Lower Upper
75 100
77 25.3 25.6 38.4#





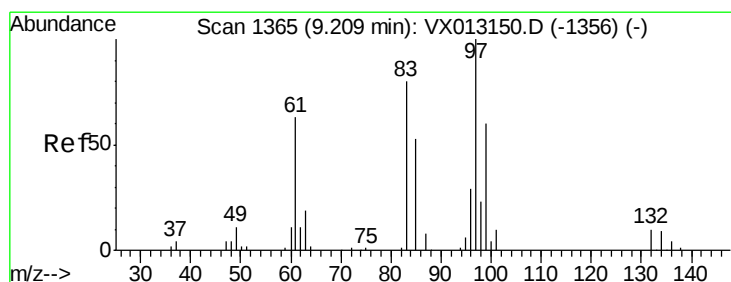
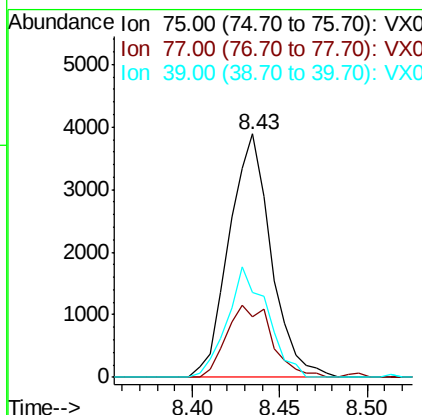
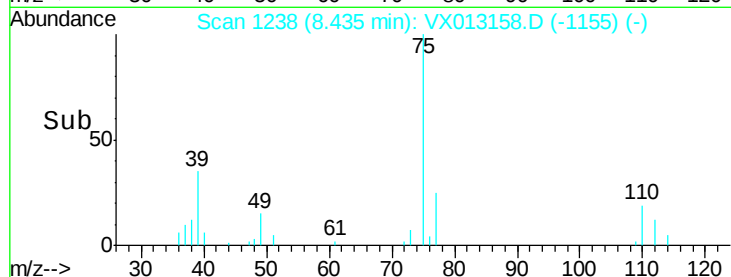
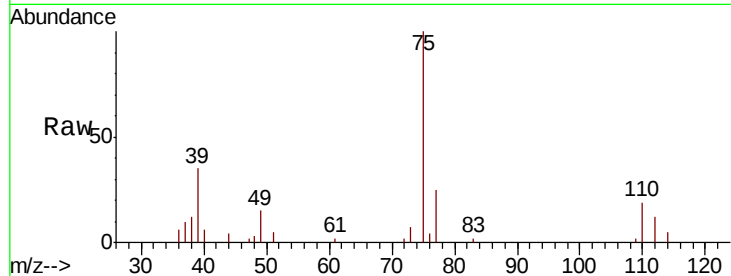
#49
 cis-1,3-Dichloropropene
 Concen: 2.204 ug/l
 RT: 8.43 min Scan# 1238
 Delta R.T. 0.01 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
75	100		
77	25.1	25.8	38.8#
39	35.1	39.7	59.5#

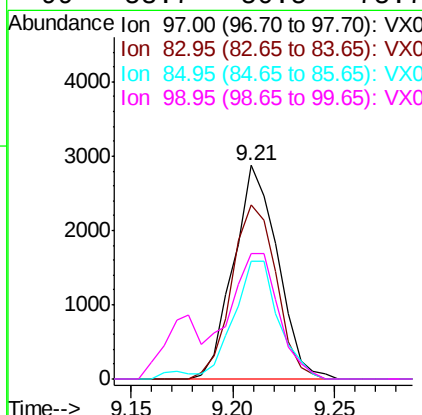
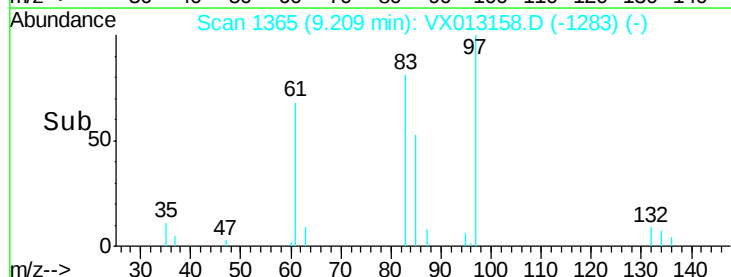
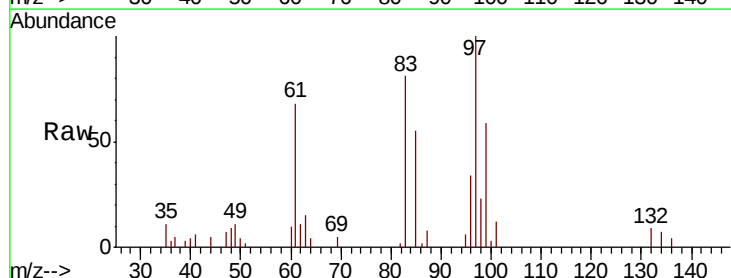
Manual Integrations
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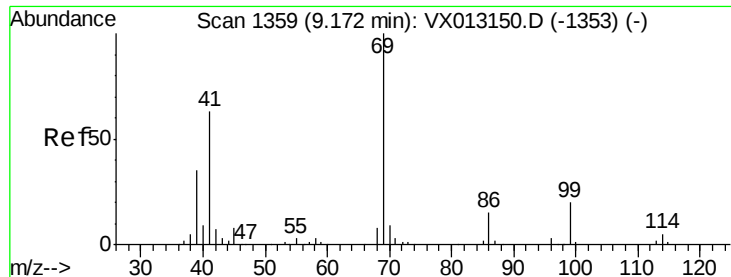
MMDadoda
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#50
 1,1,2-Trichloroethane
 Concen: 2.389 ug/l
 RT: 9.21 min Scan# 1365
 Delta R.T. -0.00 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Tgt Ion	Ratio	Lower	Upper
97	100		
83	81.5	64.2	96.4
85	55.3	42.7	64.1
99	58.7	50.5	75.7





#51

Ethyl methacrylate

Concen: 2.105 ug/l

RT: 9.18 min Scan# 1360

Delta R.T. 0.01 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Instrument :

MSVOA_X

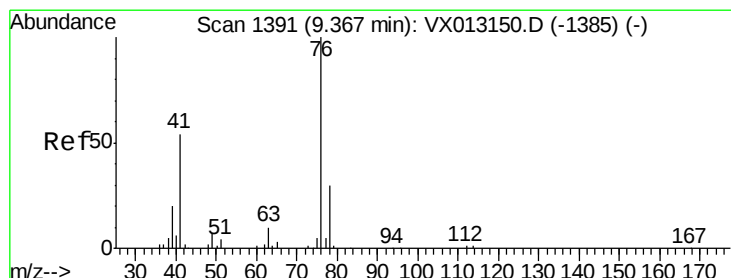
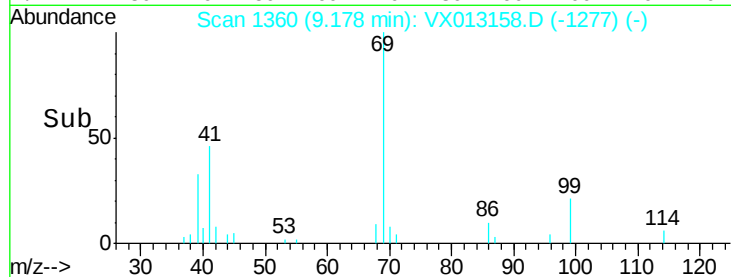
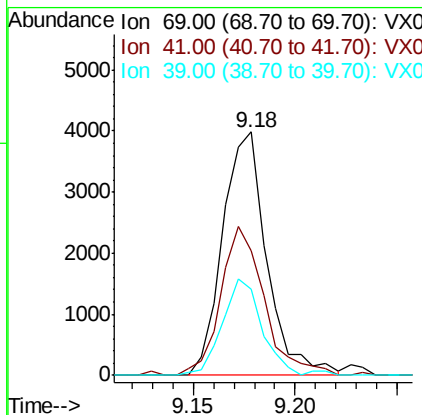
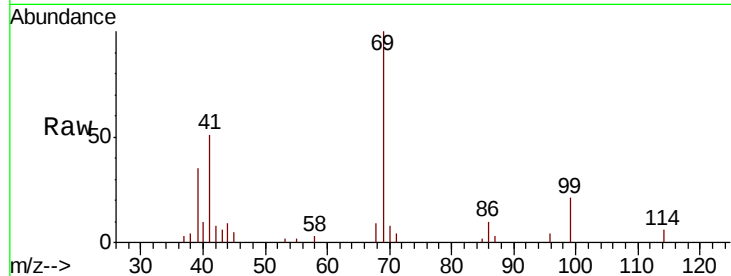
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	69	Resp:	5962
Ion	Ratio	Lower	Upper
69	100		
41	51.2	31.6	95.0
39	35.4	17.7	53.1

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 2.262 ug/l

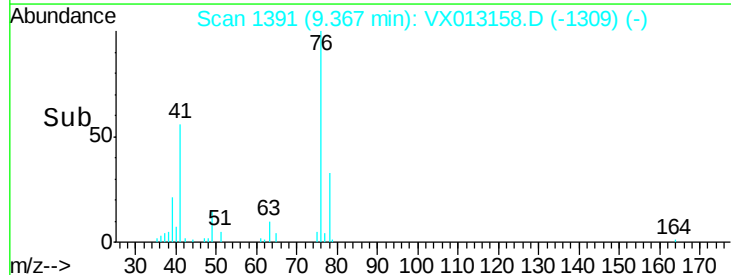
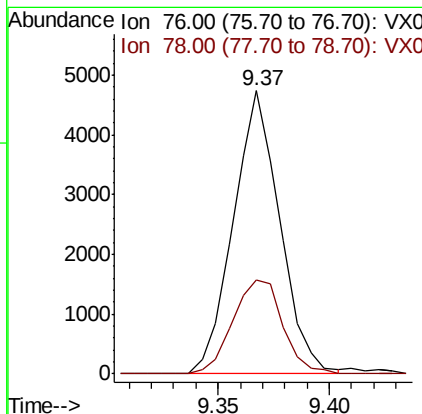
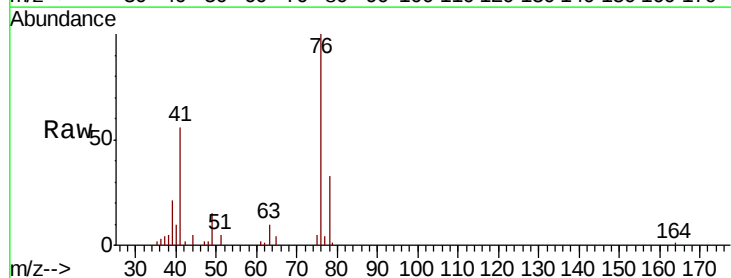
RT: 9.37 min Scan# 1391

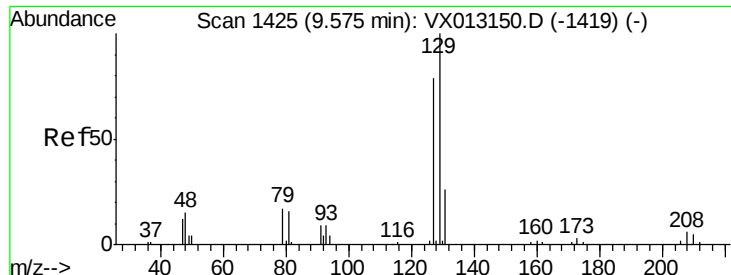
Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Tgt Ion:	76	Resp:	6880
Ion	Ratio	Lower	Upper
76	100		
78	35.5	0.0	64.6





#53

Dibromochloromethane

Concen: 1.978 ug/l

RT: 9.58 min Scan# 1426

Delta R.T. 0.01 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:129 Resp: 3853

Ion Ratio Lower Upper

129 100

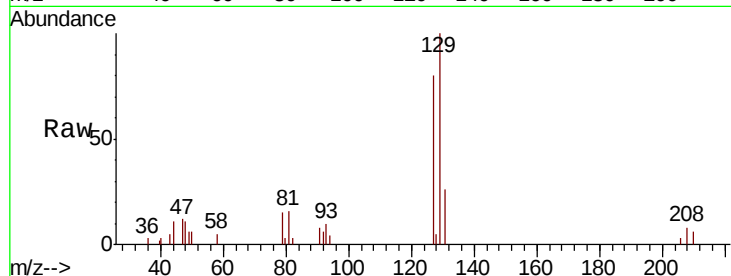
127 75.2 39.4 118.2

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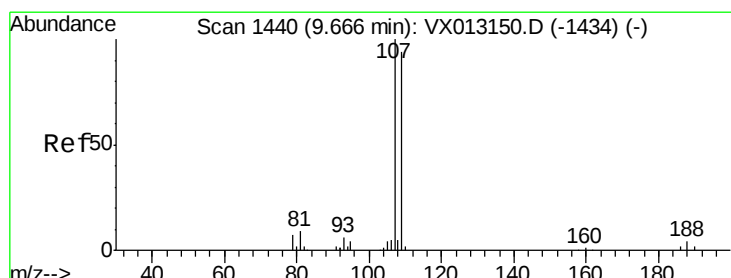
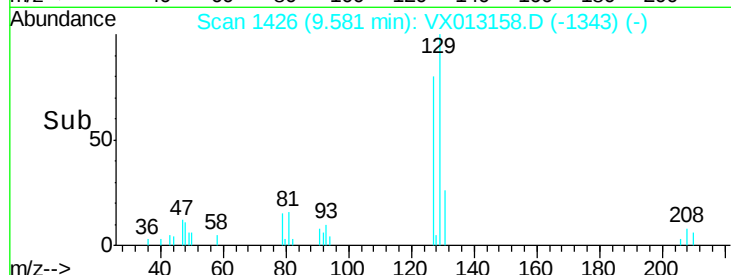
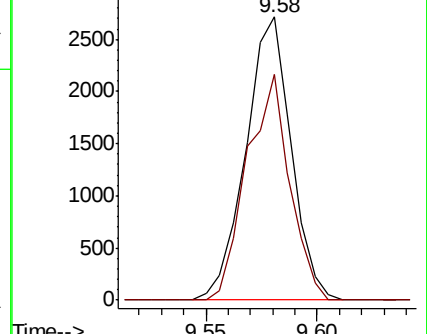
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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 2.245 ug/l

RT: 9.67 min Scan# 1440

Delta R.T. -0.00 min

Lab File: VX013158.D

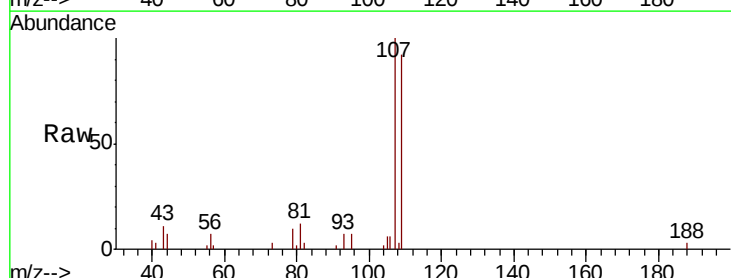
Acq: 21 Oct 2019 17:41

Tgt Ion:107 Resp: 4336

Ion Ratio Lower Upper

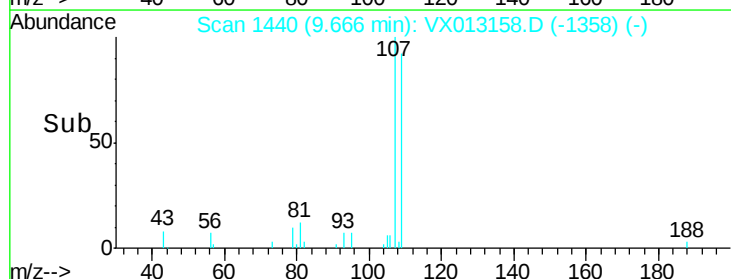
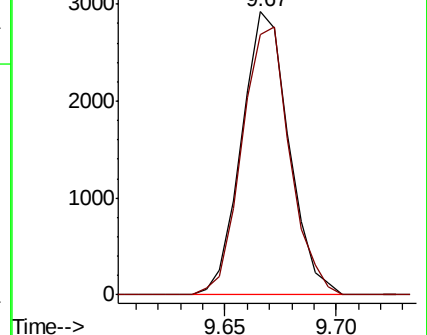
107 100

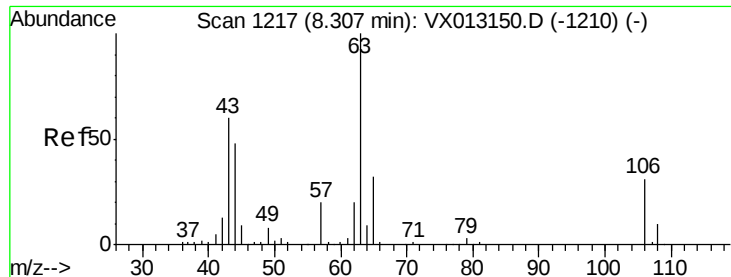
109 95.3 75.4 113.0



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





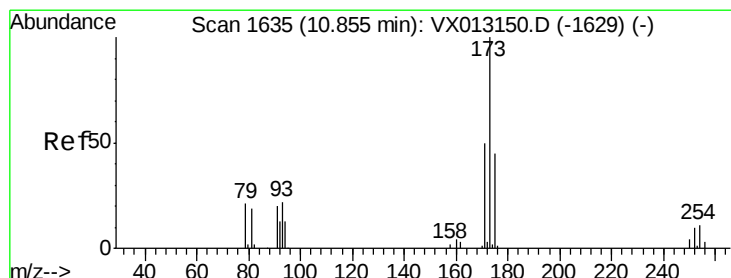
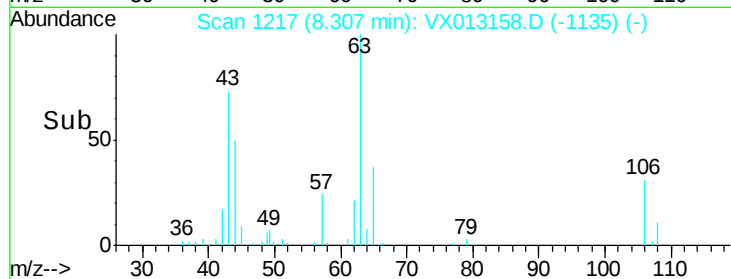
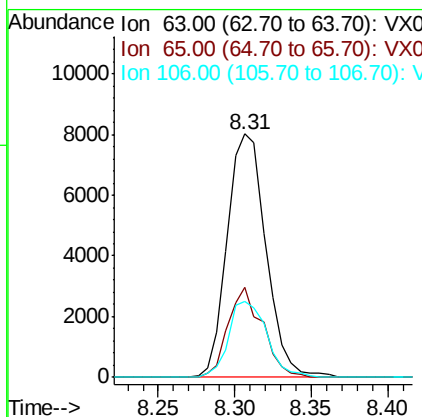
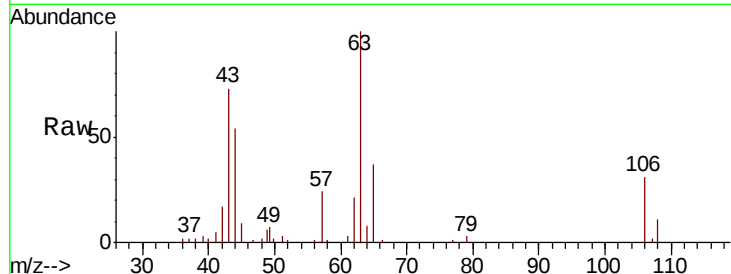
#55
2-Chloroethyl vinyl ether
Concen: 12.236 ug/l
RT: 8.31 min Scan# 1217
Delta R.T. -0.00 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
63	100		
65	33.1	25.5	38.3
106	30.8	24.8	37.2

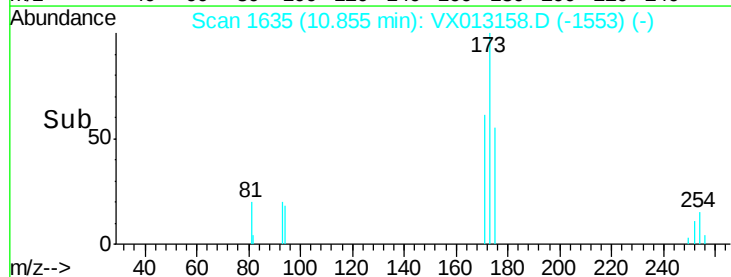
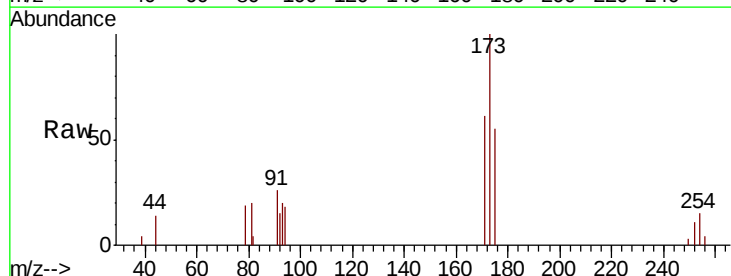
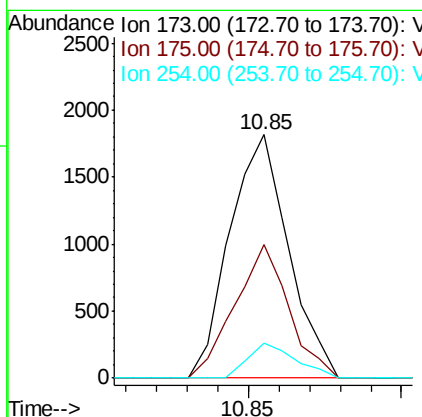
Manual Integrations
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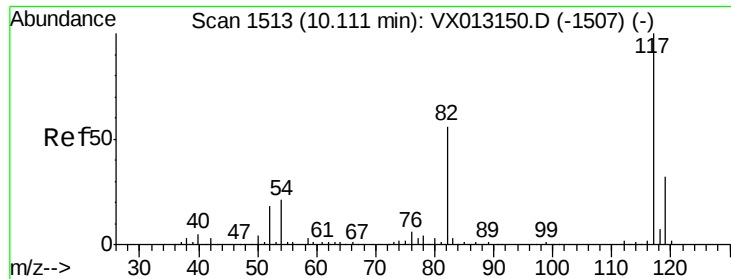
MMDadoda
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#56
Bromoform
Concen: 1.745 ug/l
RT: 10.85 min Scan# 1635
Delta R.T. -0.00 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Tgt Ion	Ratio	Lower	Upper
173	100		
175	50.4	39.0	58.4
254	11.6	8.1	12.1





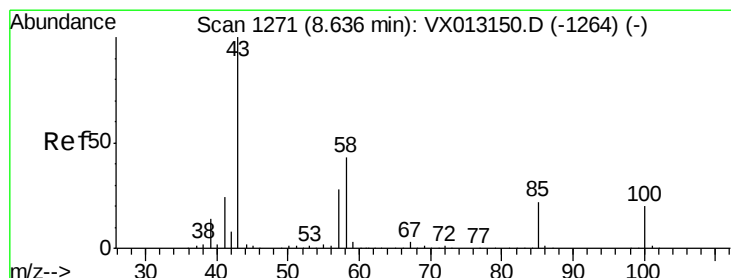
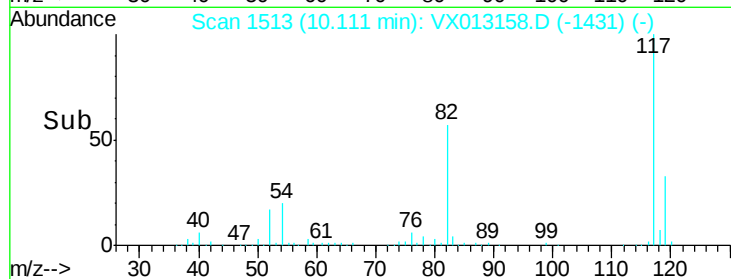
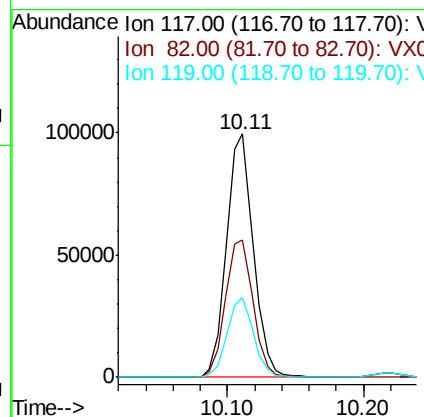
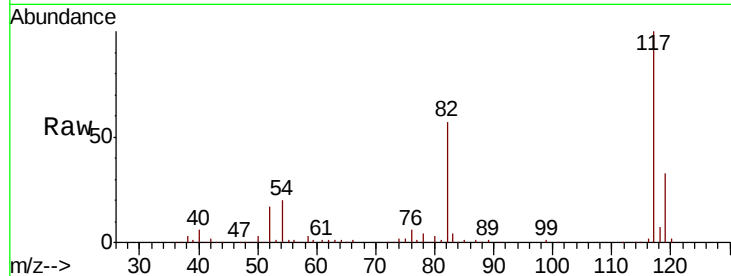
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	58.5	46.0	69.0
119	32.2	25.4	38.0

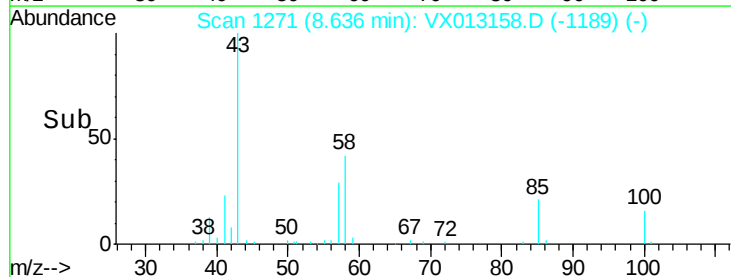
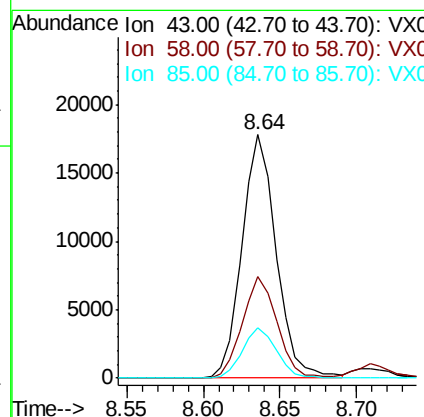
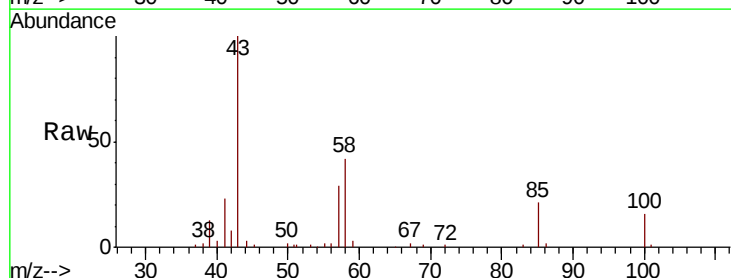
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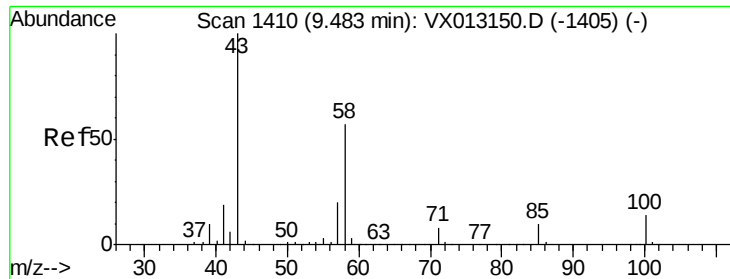
MMDadoda
10/22/2019 12:32:08 PM



#58
4-Methyl-2-Pentanone
Concen: 12.056 ug/l
RT: 8.64 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Tgt Ion	Ratio	Lower	Upper
43	100		
58	42.1	33.8	50.8
85	20.5	16.8	25.2





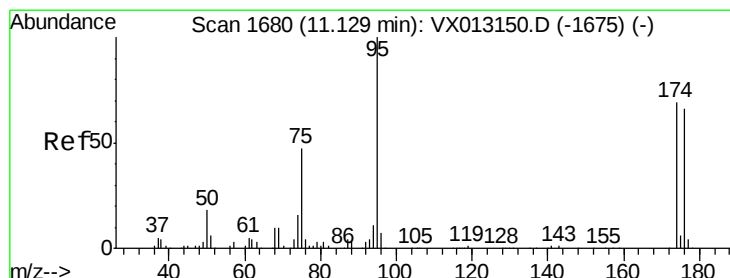
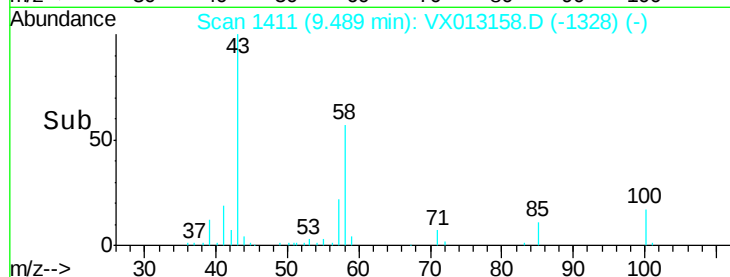
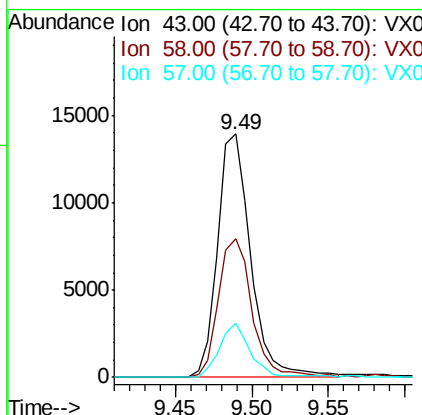
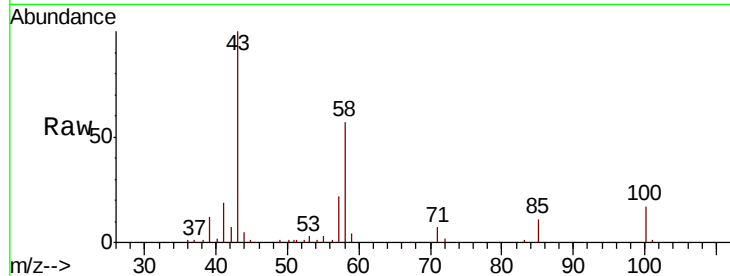
#59
2-Hexanone
Concen: 11.695 ug/l
RT: 9.49 min Scan# 1411
Delta R.T. 0.01 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	57.9	46.6	69.8
57	20.2	16.9	25.3

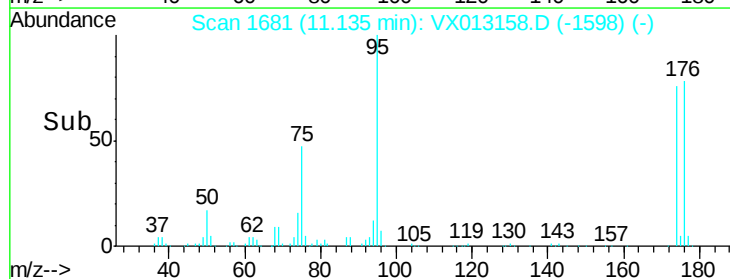
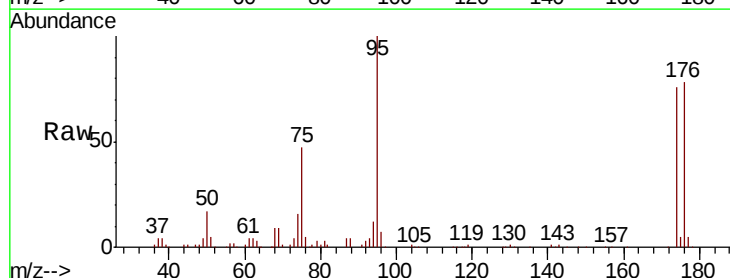
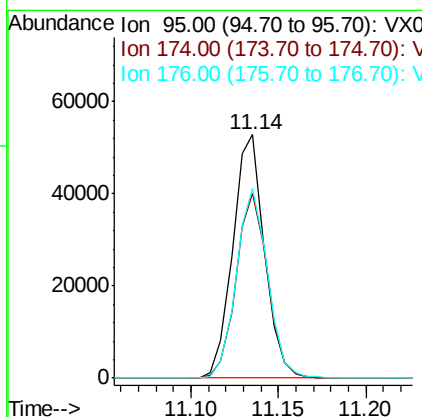
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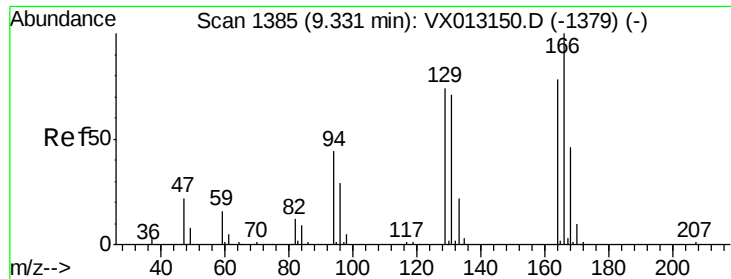
MMDadoda
10/22/2019 12:32:08 PM



#60
4-Bromofluorobenzene
Concen: 28.092 ug/l
RT: 11.14 min Scan# 1681
Delta R.T. 0.01 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Tgt Ion	Ratio	Lower	Upper
95	100		
174	75.3	60.0	90.0
176	76.9	58.5	87.7





#61

Tetrachloroethene

Concen: 2.486 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:164 Resp: 4489

Ion Ratio Lower Upper

164 100

166 139.1 102.6 153.8

129 100.7 75.7 113.5

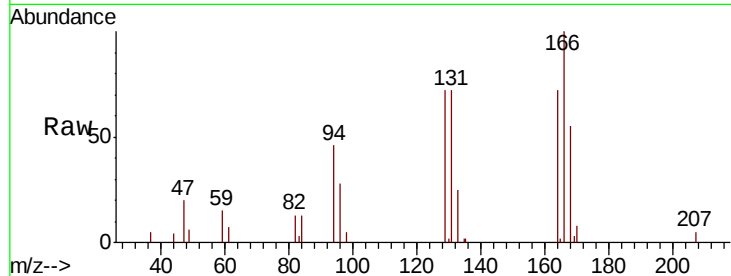
131 99.9 72.4 108.6

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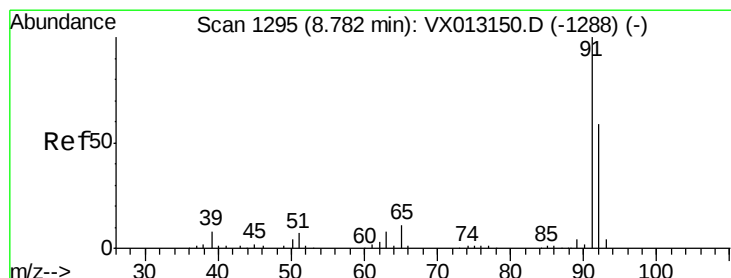
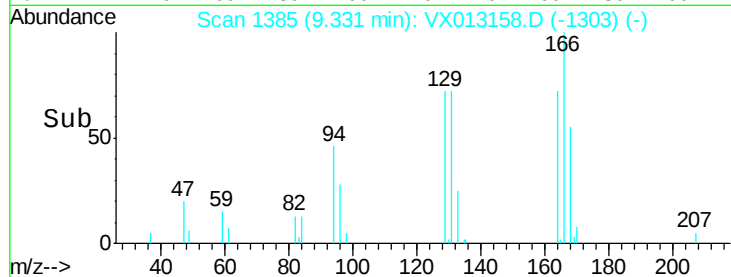
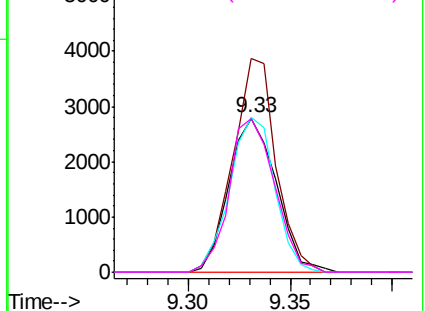


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 2.510 ug/l

RT: 8.78 min Scan# 1295

Delta R.T. -0.00 min

Lab File: VX013158.D

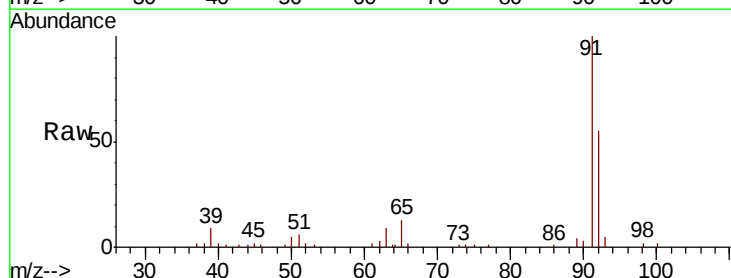
Acq: 21 Oct 2019 17:41

Tgt Ion: 91 Resp: 18454

Ion Ratio Lower Upper

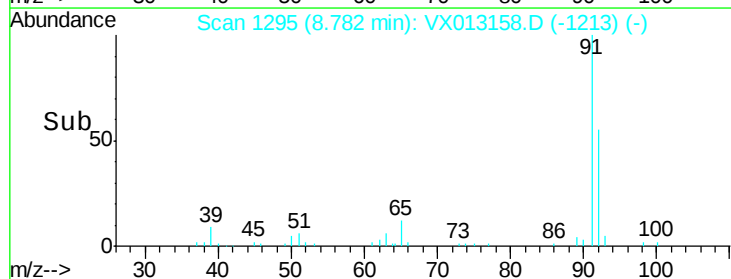
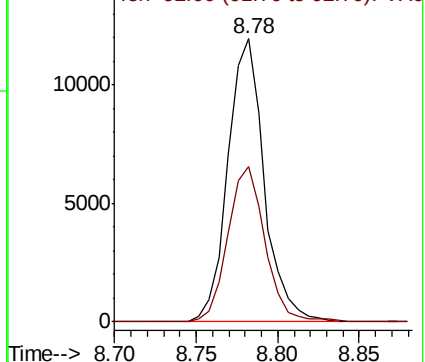
91 100

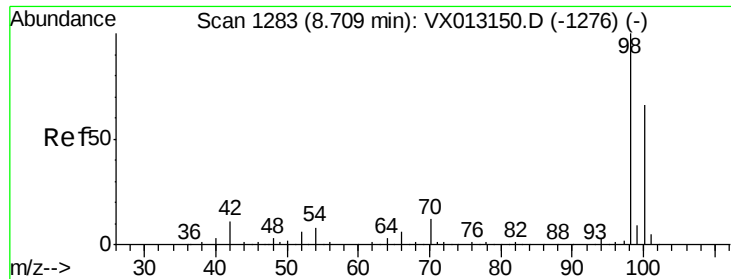
92 55.5 47.7 71.5



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0





#63

Toluene-d8

Concen: 31.202 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 98 Resp: 188983

Ion Ratio Lower Upper

98 100

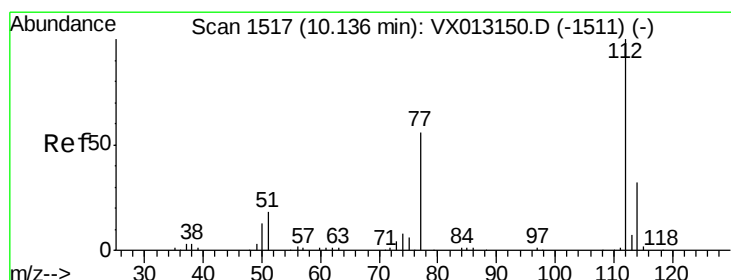
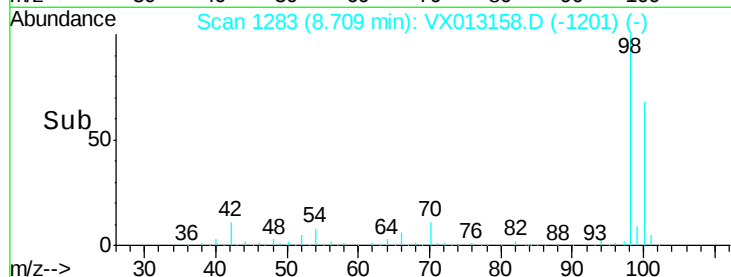
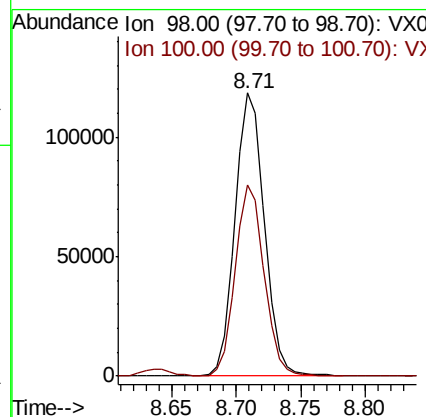
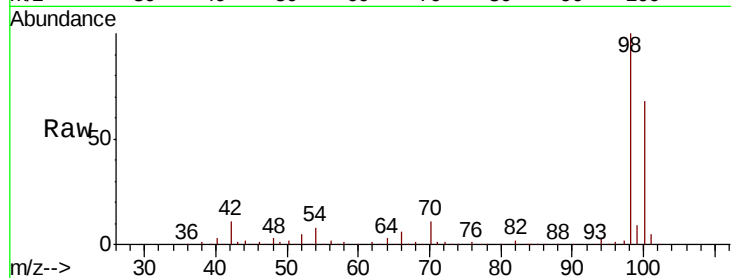
100 66.6 53.1 79.7

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#64

Chlorobenzene

Concen: 2.490 ug/l

RT: 10.14 min Scan# 1517

Delta R.T. -0.00 min

Lab File: VX013158.D

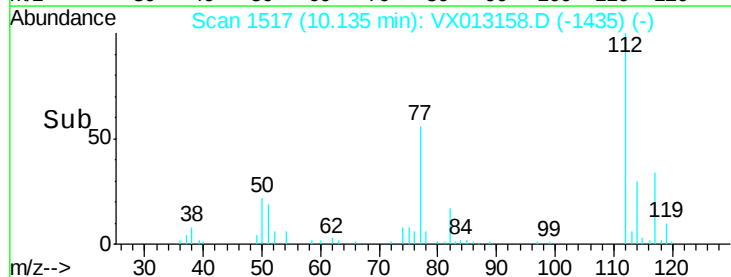
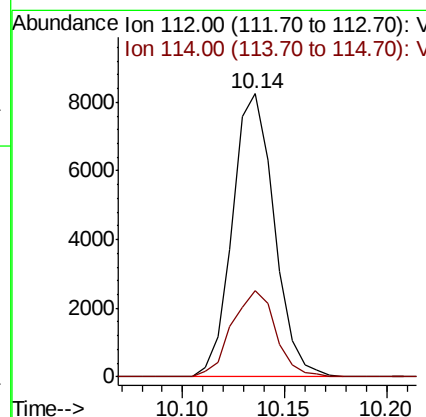
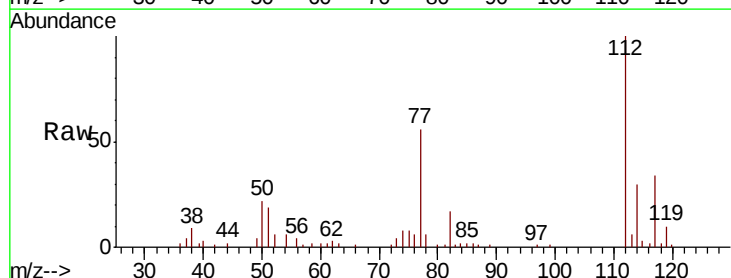
Acq: 21 Oct 2019 17:41

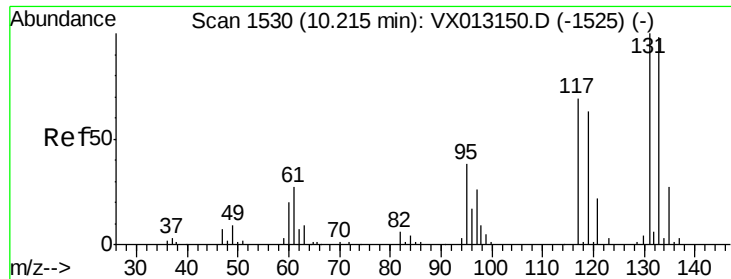
Tgt Ion: 112 Resp: 11737

Ion Ratio Lower Upper

112 100

114 30.5 25.5 38.3





#65

1,1,1,2-Tetrachloroethane

Concen: 2.216 ug/l

RT: 10.21 min Scan# 1530

Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Instrument :

MSVOA_X

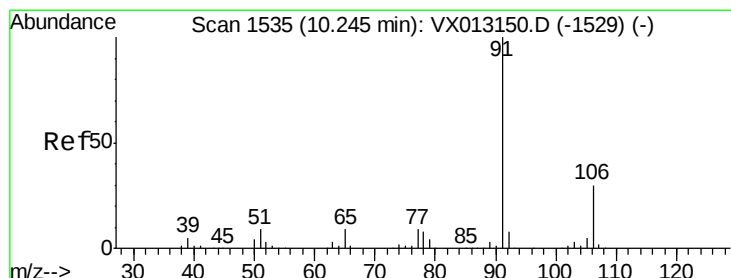
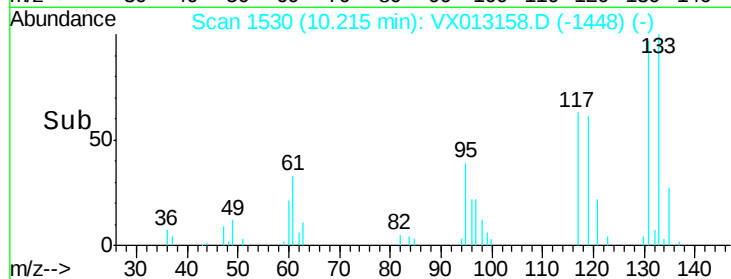
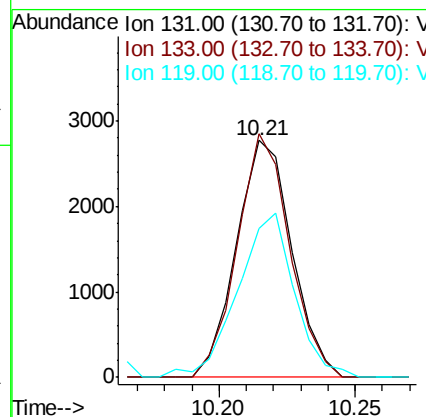
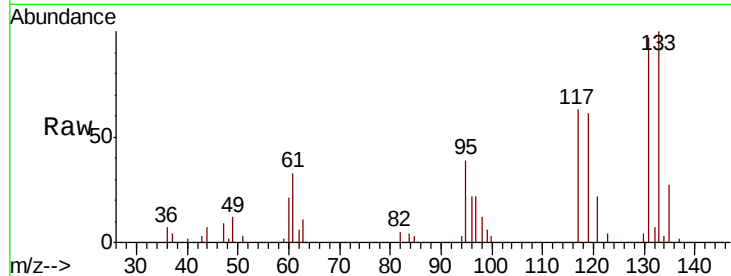
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	131	Resp:	3913
Ion Ratio	Lower	Upper	
131	100		
133	97.2	0.0	191.0
119	71.4	0.0	125.6

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#66

Ethyl Benzene

Concen: 2.402 ug/l

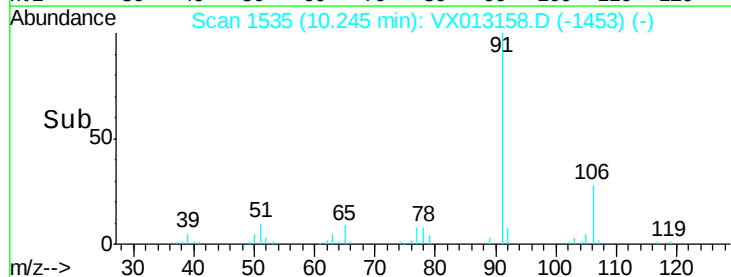
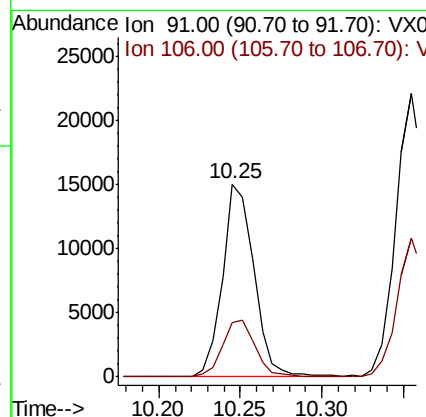
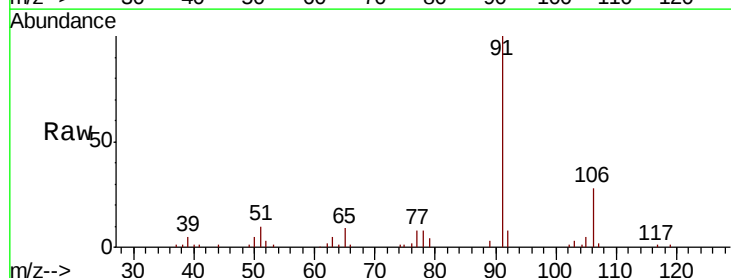
RT: 10.25 min Scan# 1535

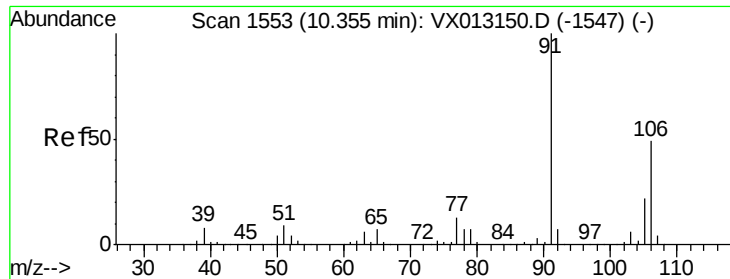
Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Tgt Ion:	91	Resp:	20321
Ion Ratio	Lower	Upper	
91	100		
106	28.4	23.8	35.6





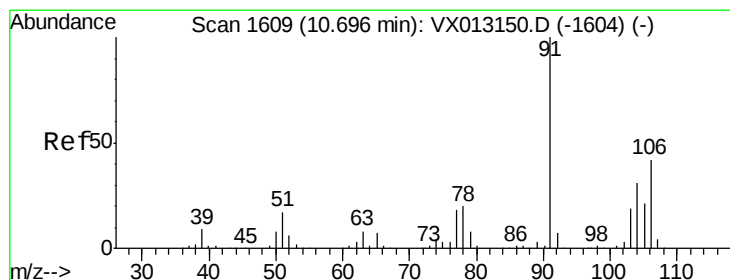
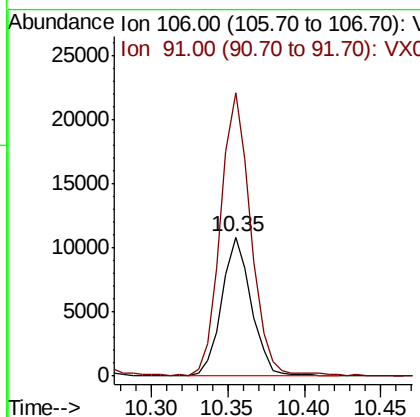
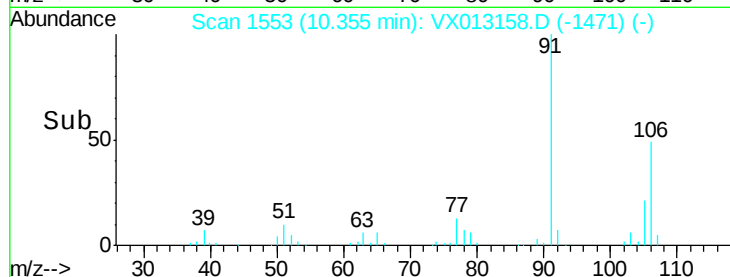
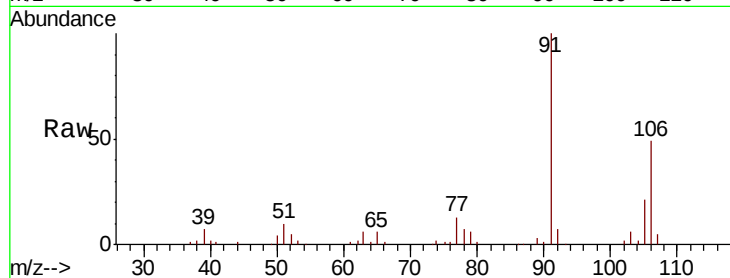
#67
m/p-Xvlenes
Concen: 4.551 ug/l
RT: 10.35 min Scan# 1553
Delta R.T. -0.00 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:106 Resp: 14633
Ion Ratio Lower Upper
106 100
91 207.0 163.7 245.5

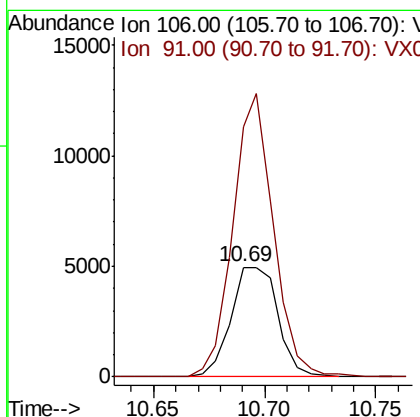
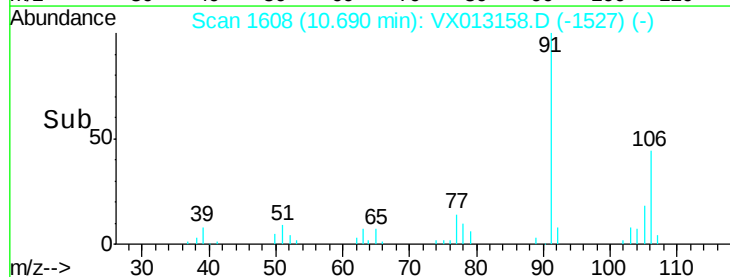
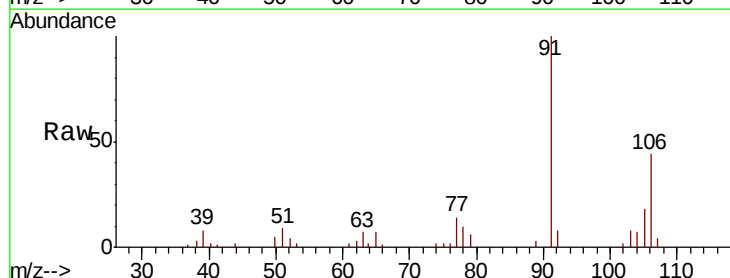
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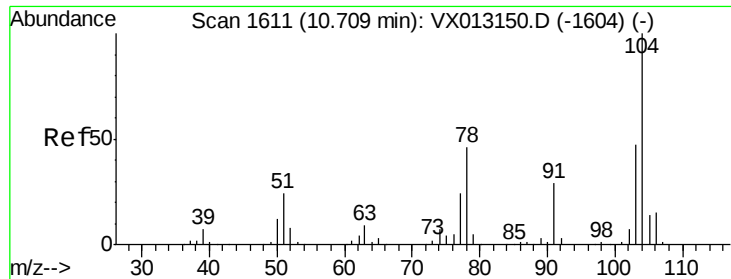
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#68
o-Xylene
Concen: 2.371 ug/l
RT: 10.69 min Scan# 1608
Delta R.T. -0.01 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Tgt Ion:106 Resp: 7277
Ion Ratio Lower Upper
106 100
91 222.7 113.6 340.8





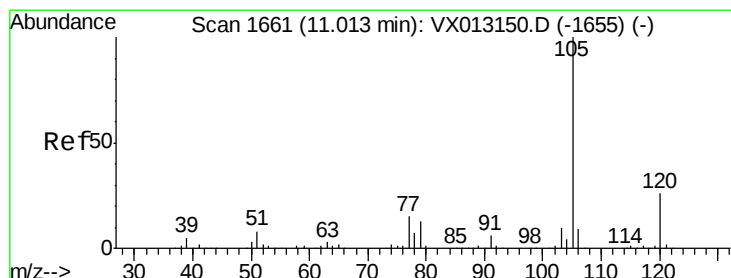
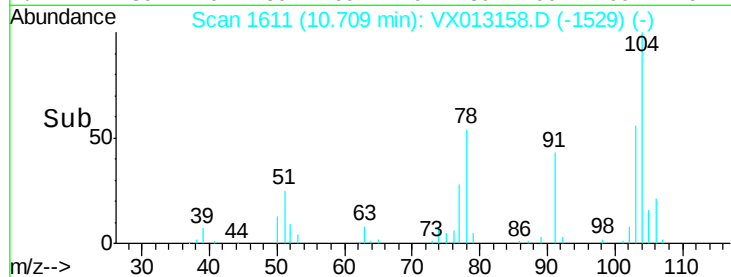
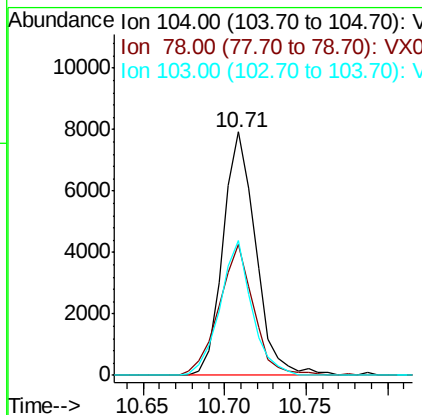
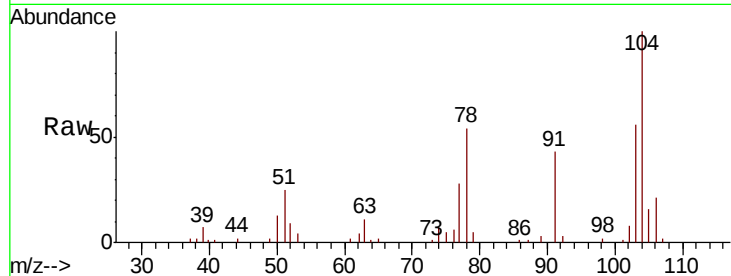
#69
Stvrene
Concen: 2.091 ug/l
RT: 10.71 min Scan# 1611
Delta R.T. -0.00 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
104	100		11048		
78	56.5	42.3	63.5		
103	53.9	42.2	63.2		

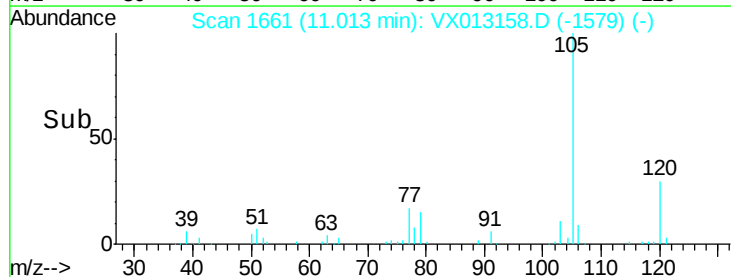
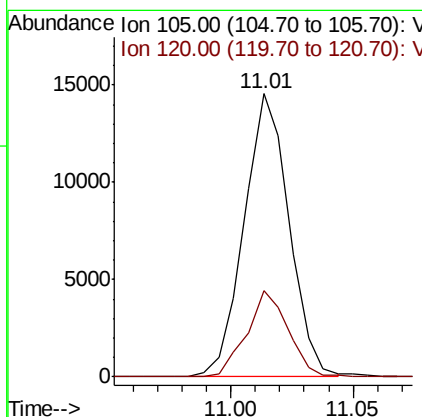
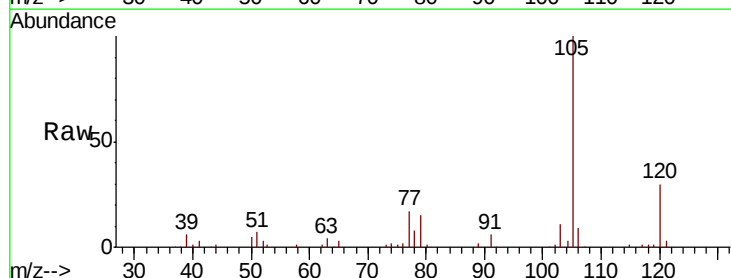
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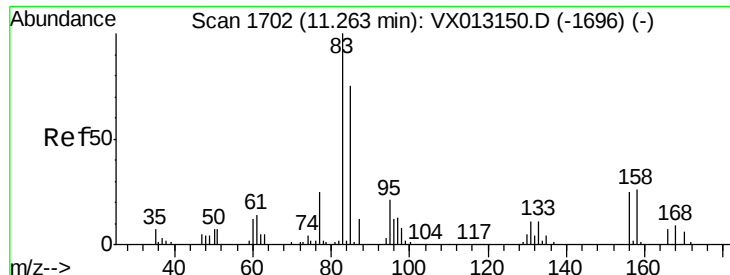
MMDadoda
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#70
Isopropylbenzene
Concen: 2.200 ug/l
RT: 11.01 min Scan# 1661
Delta R.T. -0.00 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
105	100		18530		
120	28.0	18.1	33.7		





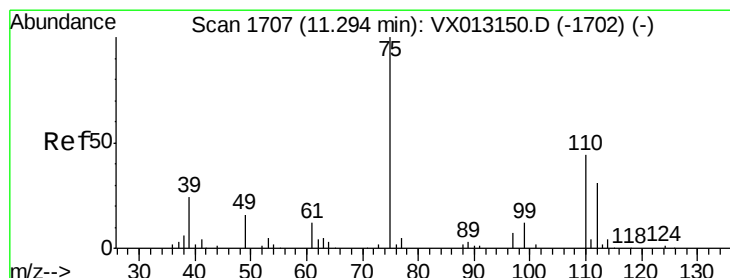
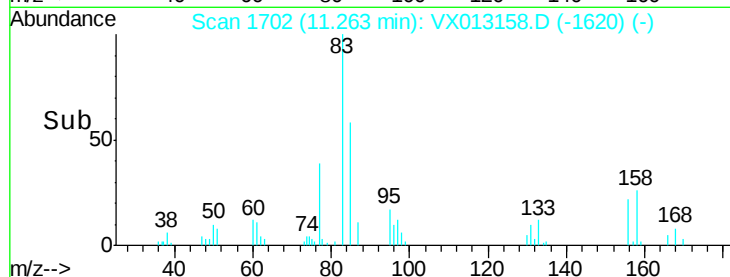
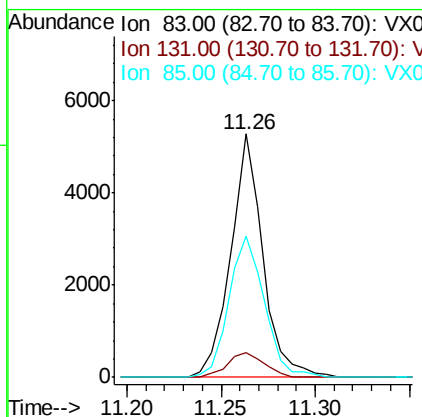
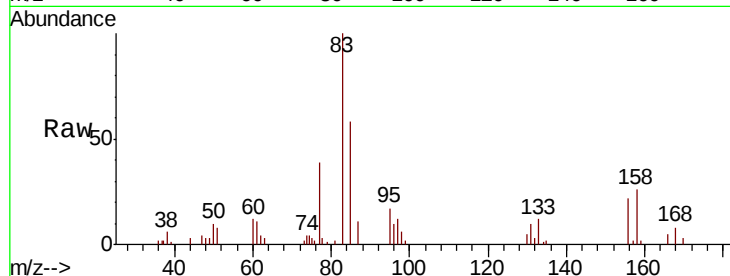
#71
 1,1,2,2-Tetrachloroethane
 Concen: 2.421 ug/l
 RT: 11.26 min Scan# 1702
 Delta R.T. -0.00 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	83	Resp	6249
Ion Ratio	100	Lower	Upper
83	100		
131	11.5	5.5	16.4
85	64.0	32.9	98.6

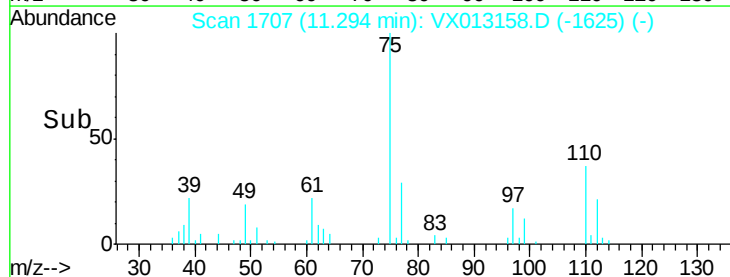
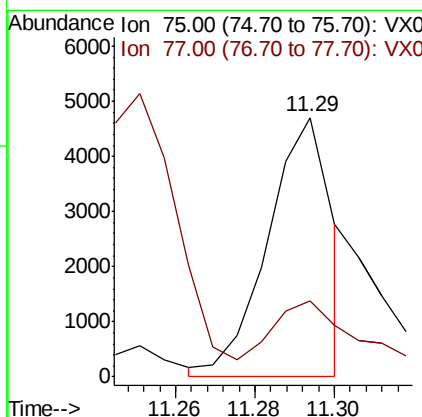
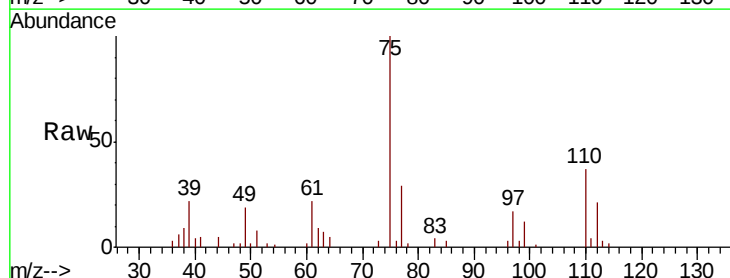
Manual Integrations
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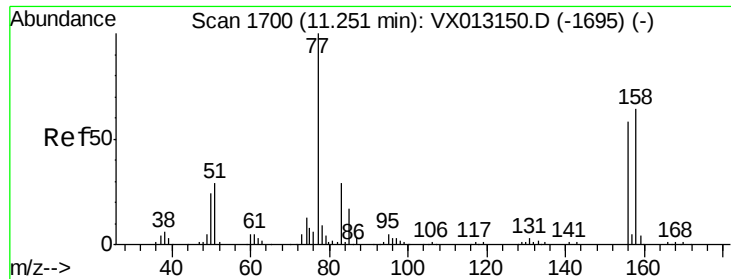
MMDadoda
 10/22/2019 12:32:08 PM



#72
 1,2,3-Trichloropropane
 Concen: 2.337 ug/l m
 RT: 11.29 min Scan# 1707
 Delta R.T. -0.00 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Tgt Ion	75	Resp	5240
Ion Ratio	100	Lower	Upper
75	100		
77	41.8	0.0	74.0





#73

Bromobenzene

Concen: 2.258 ug/l

RT: 11.25 min Scan# 1700

Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Instrument :

MSVOA_X

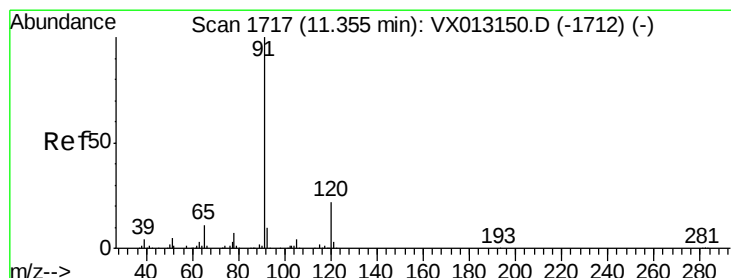
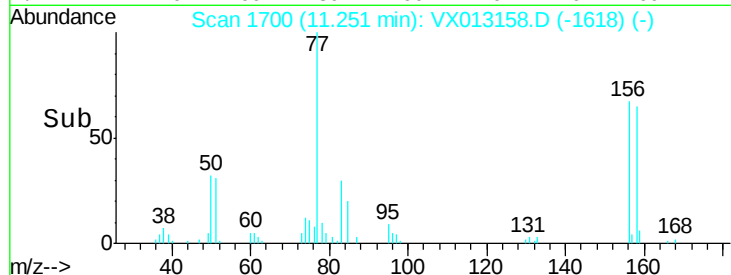
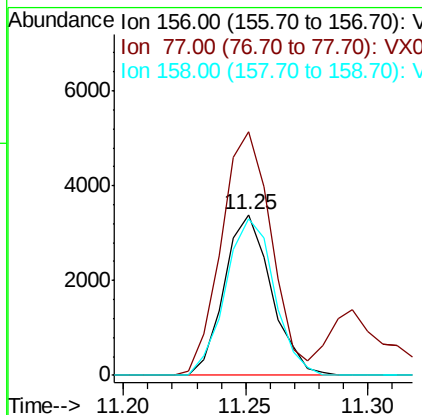
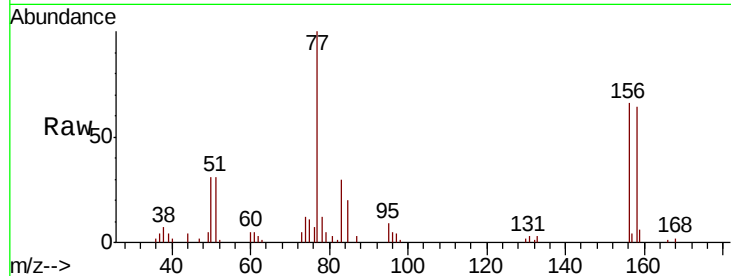
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion:	156	Resp:	4565
Ion	Ratio	Lower	Upper
156	100		
77	161.2	0.0	328.0
158	100.5	0.0	196.2

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#74

n-propylbenzene

Concen: 2.223 ug/l

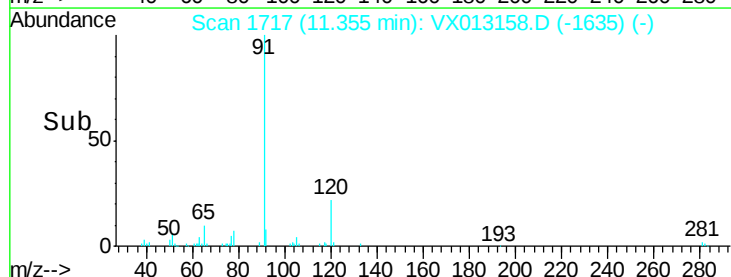
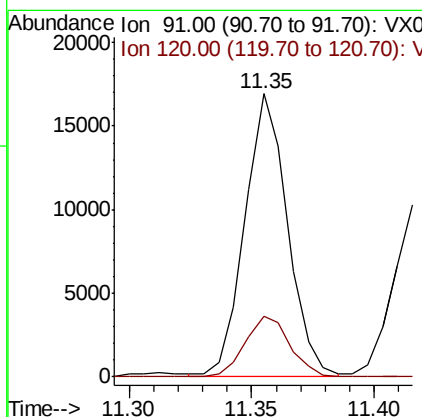
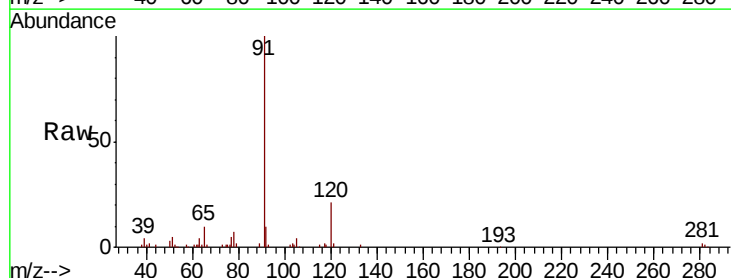
RT: 11.35 min Scan# 1717

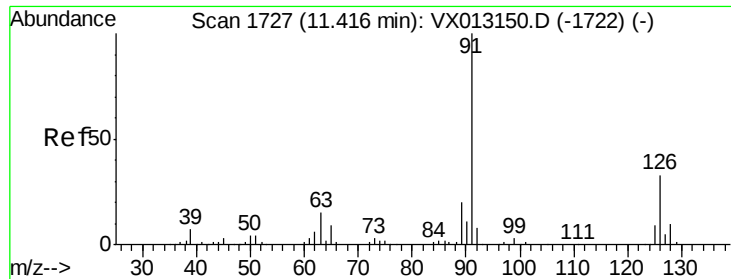
Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Tgt Ion:	91	Resp:	20557
Ion	Ratio	Lower	Upper
91	100		
120	22.1	0.0	45.2





#75

2-Chlorotoluene

Concen: 2.271 ug/l

RT: 11.42 min Scan# 1727

Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 91 Resp: 13139

Ion Ratio Lower Upper

91 100

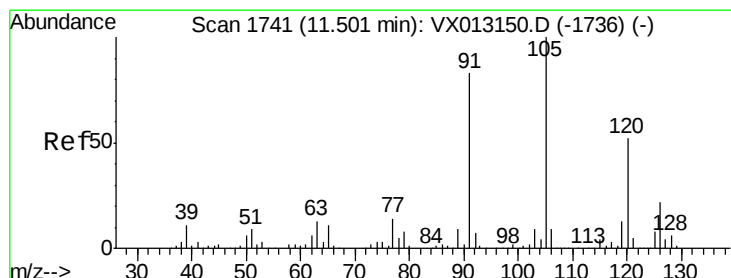
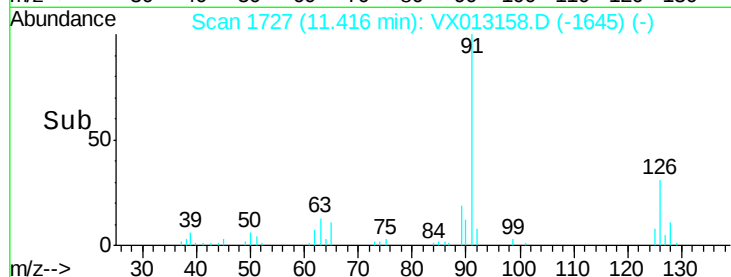
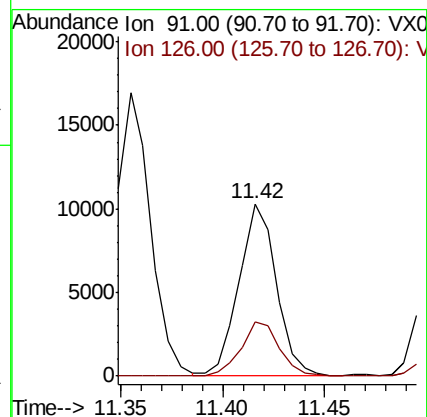
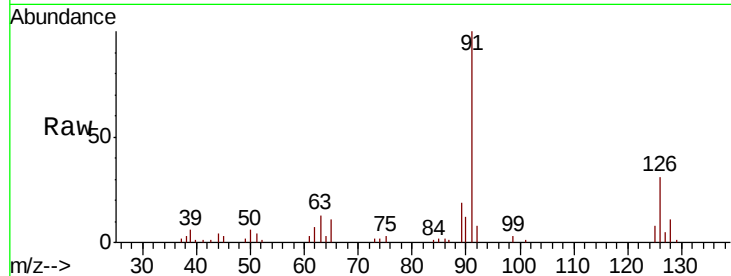
126 32.0 0.0 63.8

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#76

1,3,5-Trimethylbenzene

Concen: 2.199 ug/l

RT: 11.50 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX013158.D

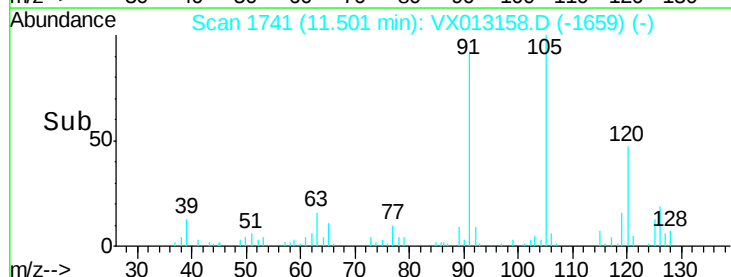
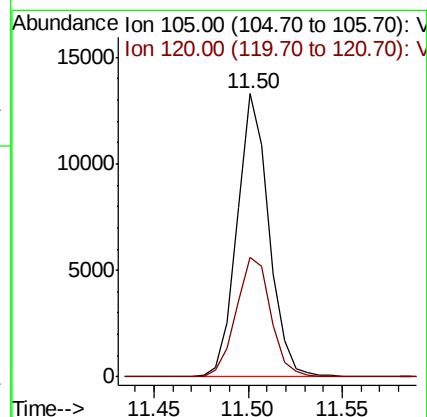
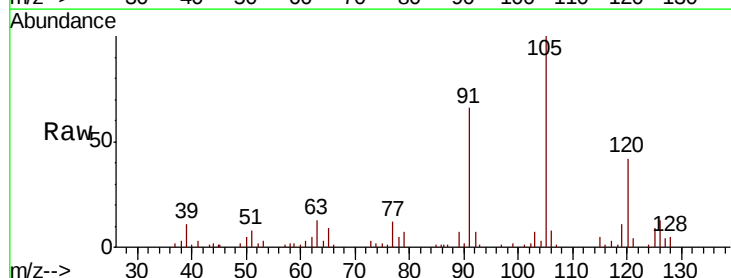
Acq: 21 Oct 2019 17:41

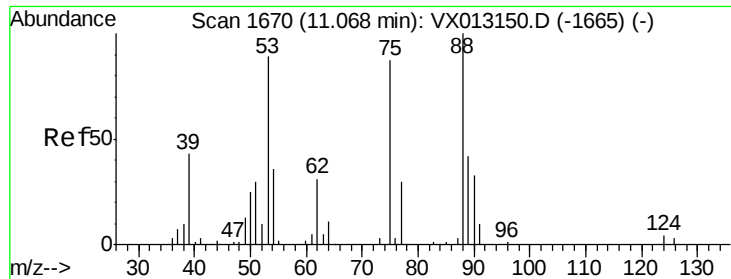
Tgt Ion: 105 Resp: 15549

Ion Ratio Lower Upper

105 100

120 45.9 0.0 98.0





#77

t-1,4-Dichloro-2-butene

Concen: 1.857 ug/l

RT: 11.07 min Scan# 1670

Delta R.T. -0.00 min

Lab File: VX013158.D

Acq: 21 Oct 2019 17:41

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019DL

Tot Ion: 75 Resp: 1616

Ion Ratio Lower Upper

75 100

53 97.0 51.1 153.4

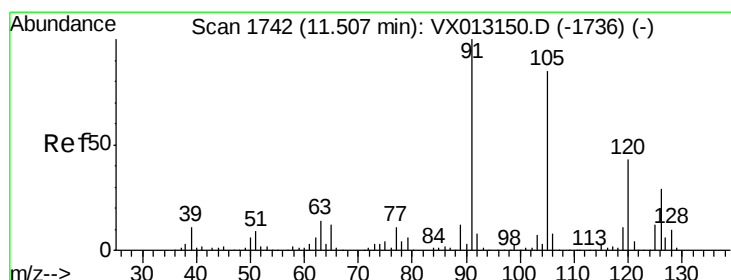
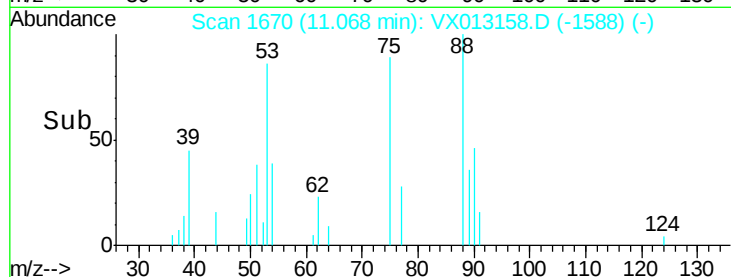
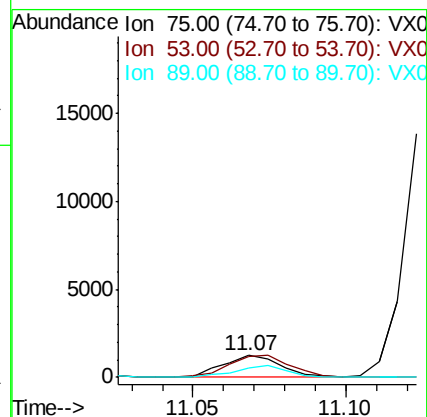
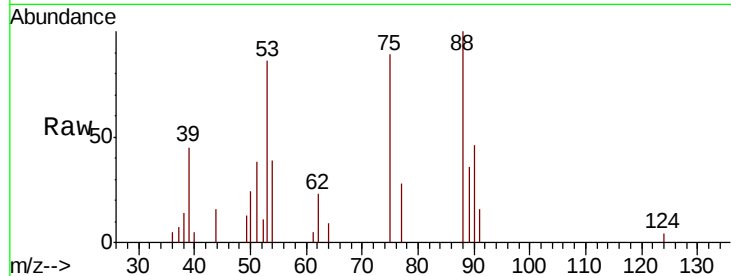
89 41.0 24.1 72.4

Manual Integrations

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#78

4-Chlorotoluene

Concen: 2.266 ug/l

RT: 11.51 min Scan# 1742

Delta R.T. -0.00 min

Lab File: VX013158.D

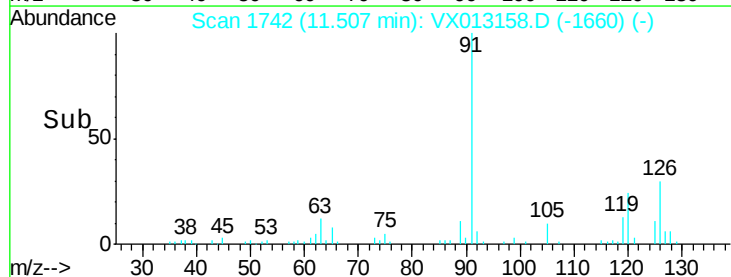
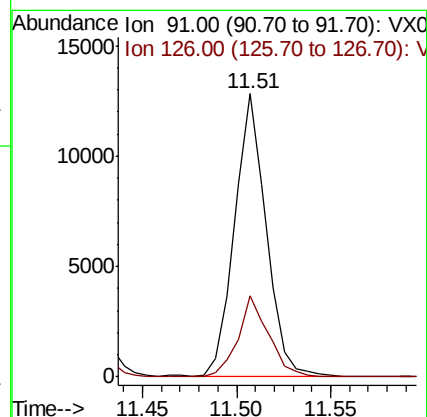
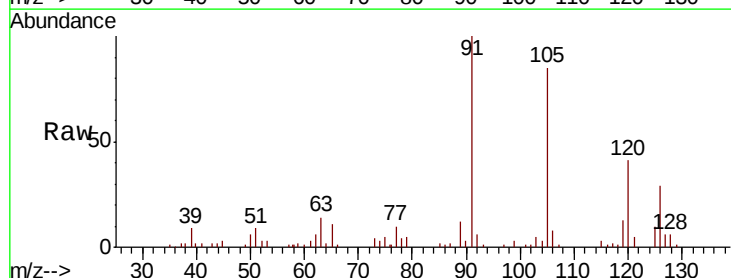
Acq: 21 Oct 2019 17:41

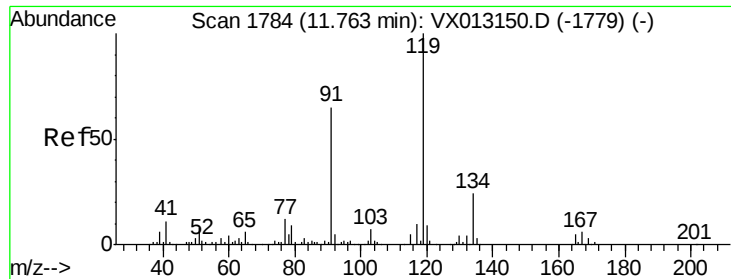
Tgt Ion: 91 Resp: 14976

Ion Ratio Lower Upper

91 100

126 27.4 0.0 58.4





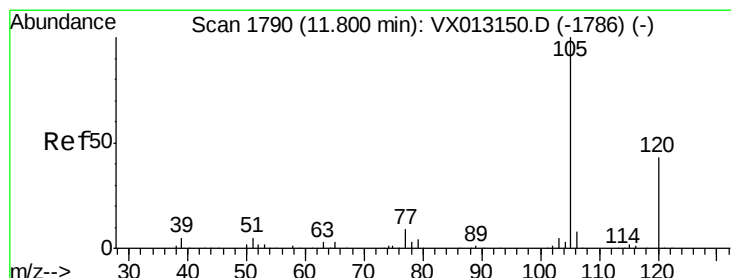
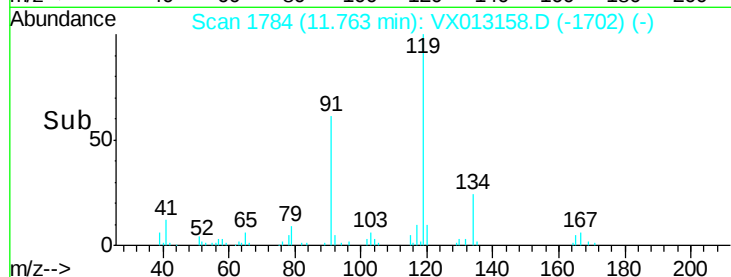
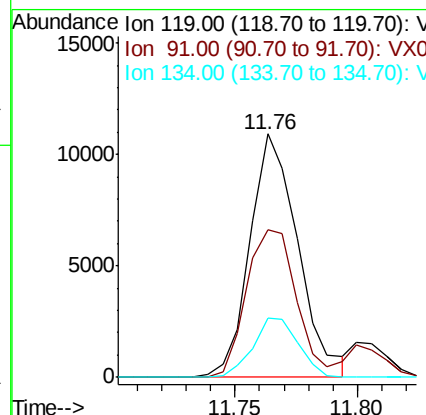
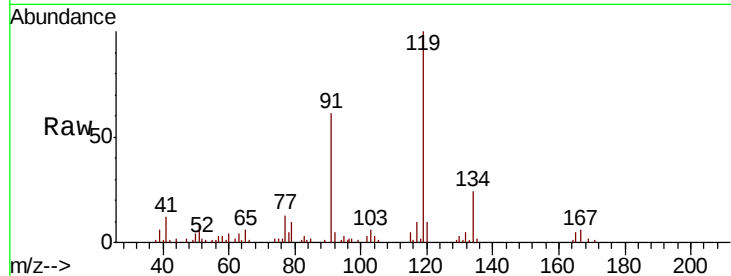
#79
tert-butylbenzene
Concen: 2.187 ug/l
RT: 11.76 min Scan# 1784
Delta R.T. -0.00 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Resp	Lower	Upper
119	100	14893		
91	62.9	0.0	128.4	
134	23.1	0.0	49.0	

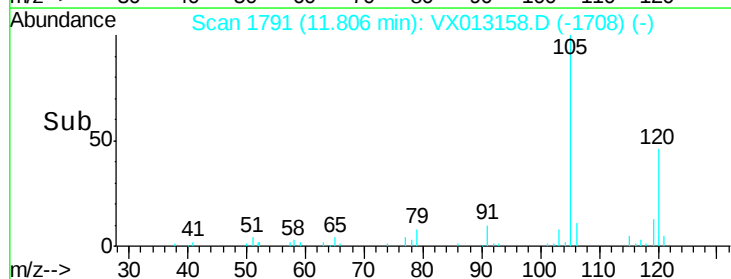
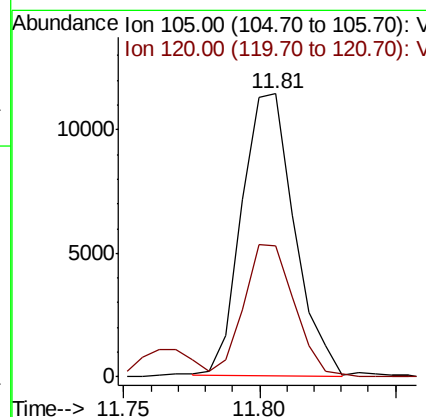
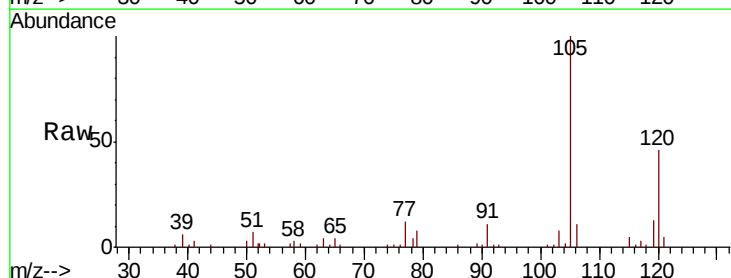
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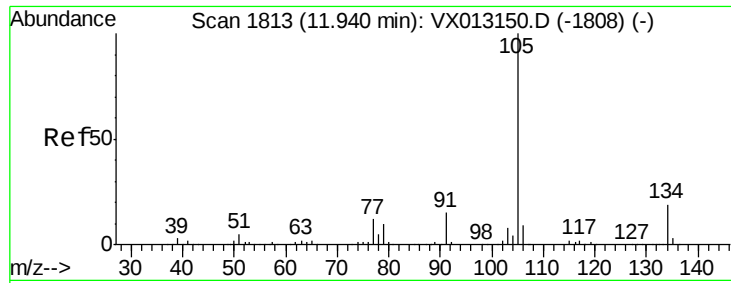
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#80
1,2,4-Trimethylbenzene
Concen: 2.162 ug/l
RT: 11.81 min Scan# 1791
Delta R.T. 0.01 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	15272		
120	45.1	0.0	87.4	





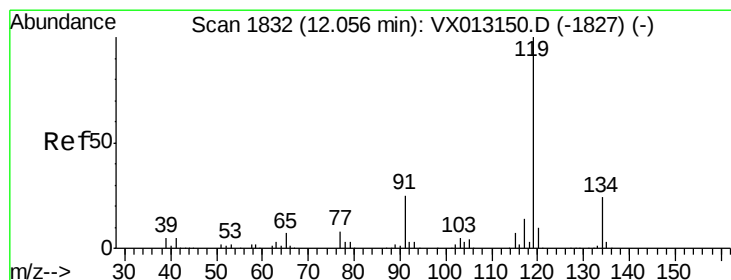
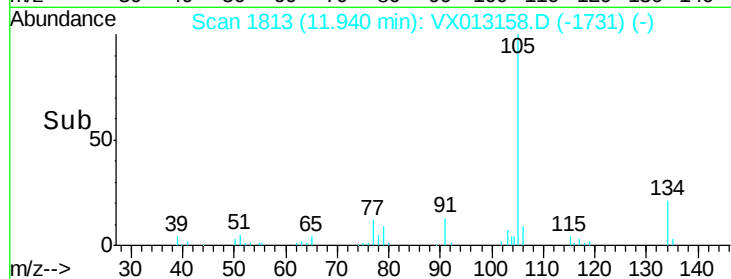
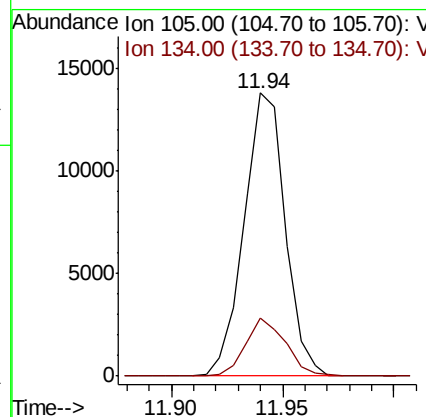
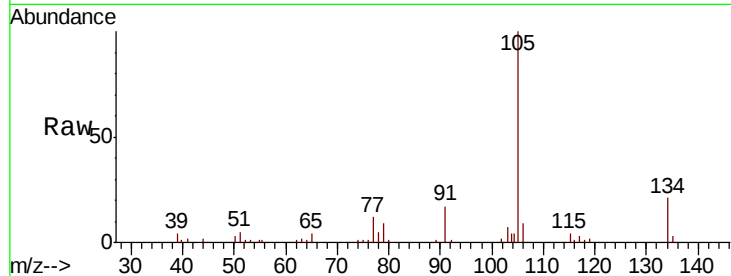
#81
 sec-Butylbenzene
 Concen: 2.199 ug/l
 RT: 11.94 min Scan# 1813
 Delta R.T. -0.00 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.0	0.0	39.2

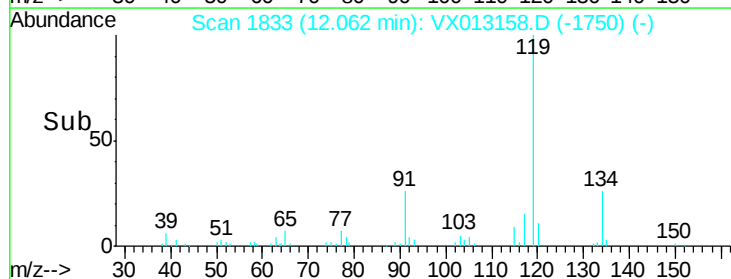
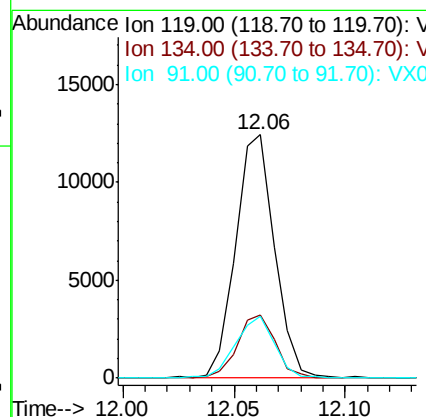
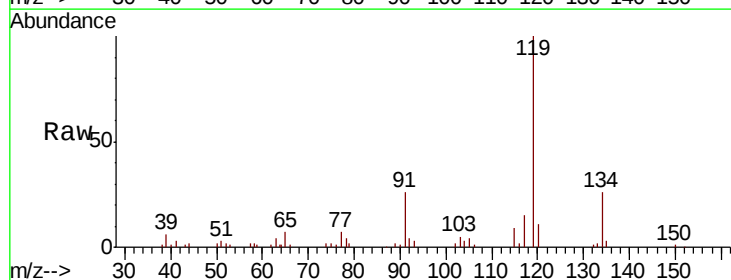
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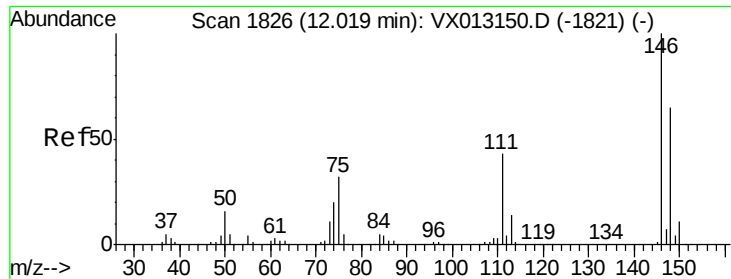
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#82
 p-Isopropyltoluene
 Concen: 2.042 ug/l
 RT: 12.06 min Scan# 1833
 Delta R.T. 0.01 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Tgt Ion	Ratio	Lower	Upper
119	100		
134	25.4	0.0	51.6
91	25.3	0.0	50.0





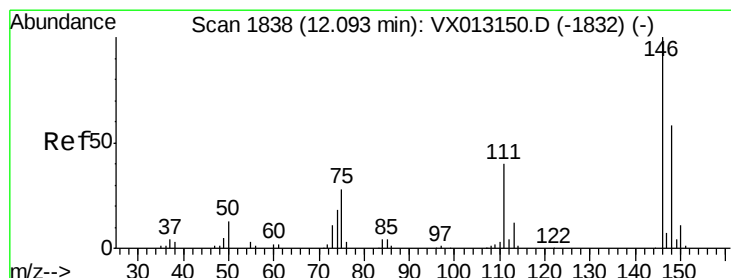
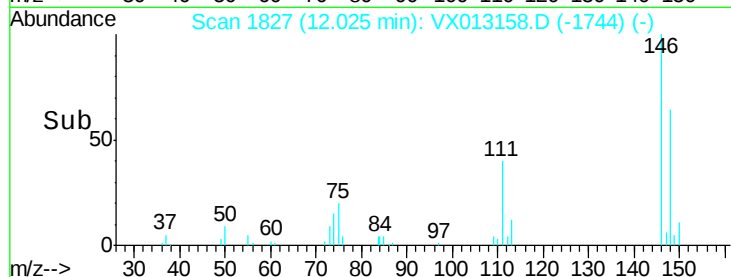
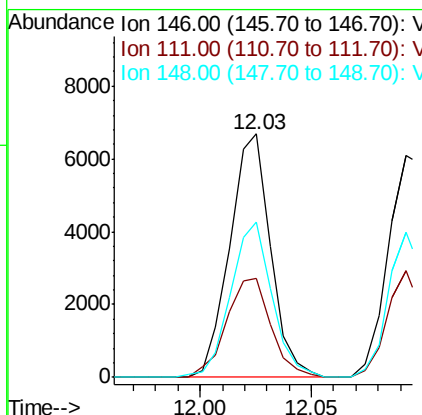
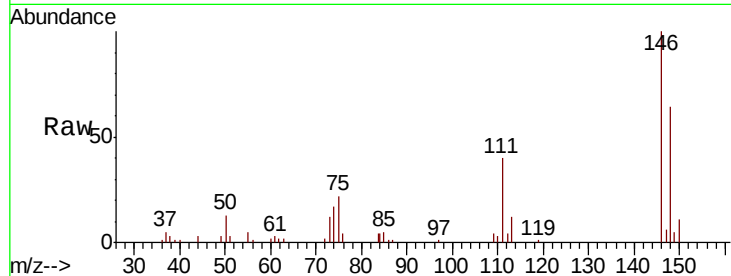
#83
 1,3-Dichlorobenzene
 Concen: 2.312 ug/l
 RT: 12.03 min Scan# 1827
 Delta R.T. 0.01 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	44.3	21.8	65.4
148	64.4	31.2	93.6

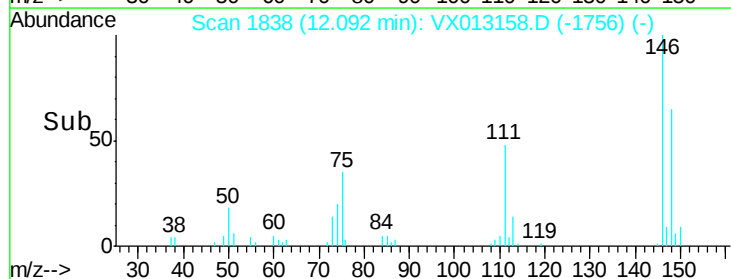
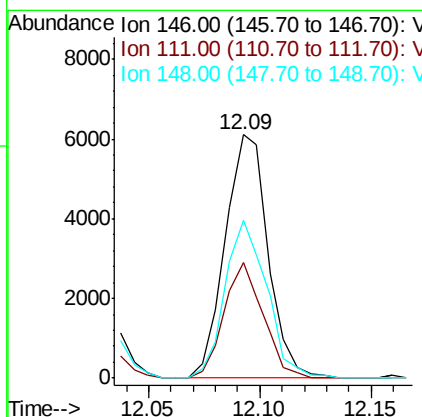
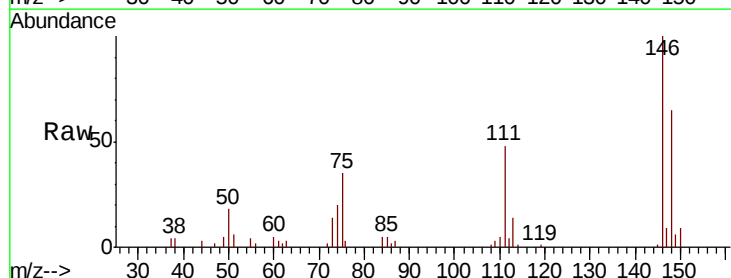
Manual Integrations
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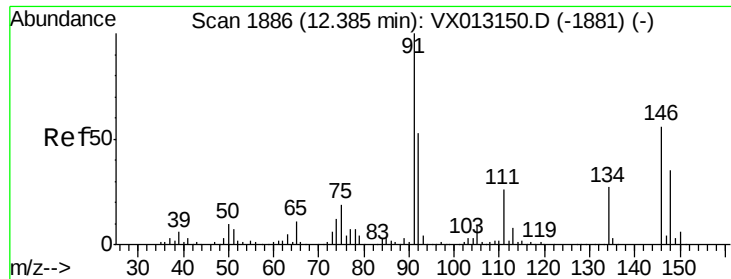
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#84
 1,4-Dichlorobenzene
 Concen: 2.241 ug/l
 RT: 12.09 min Scan# 1838
 Delta R.T. -0.00 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Tgt Ion	Ratio	Lower	Upper
146	100		
111	43.2	20.3	60.9
148	63.1	31.4	94.2





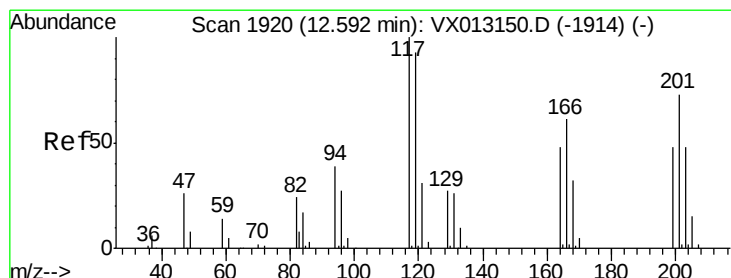
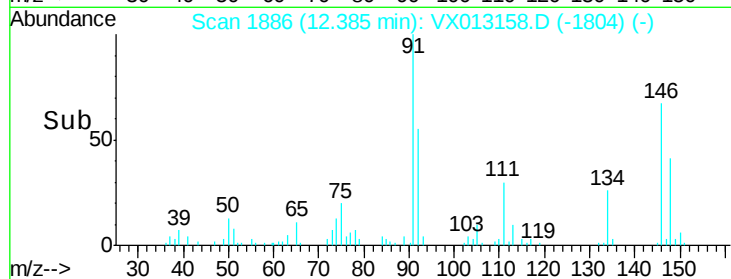
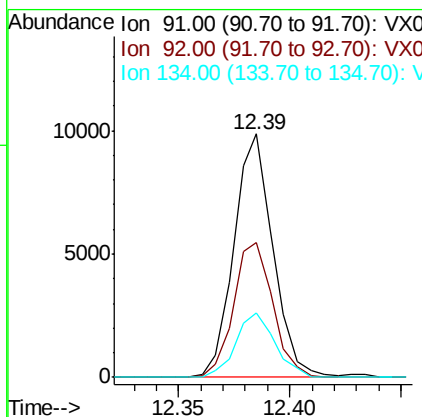
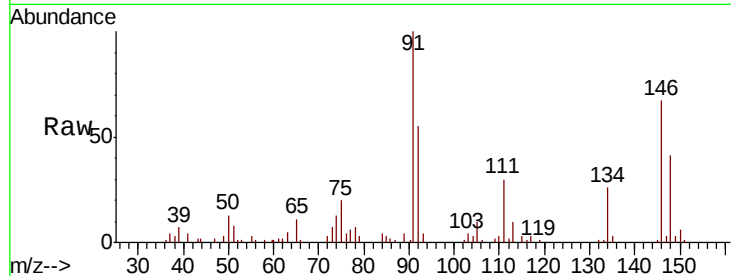
#85
n-Butylbenzene
Concen: 1.911 ug/l
RT: 12.39 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Resp	Lower	Upper
91	100	12036		
92	55.7	0.0	106.8	
134	26.4	0.0	52.4	

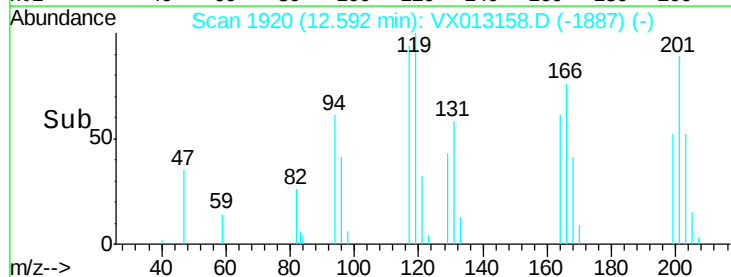
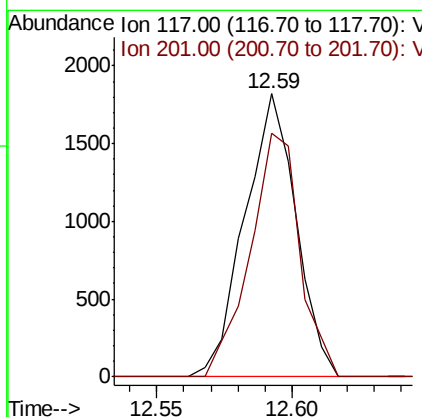
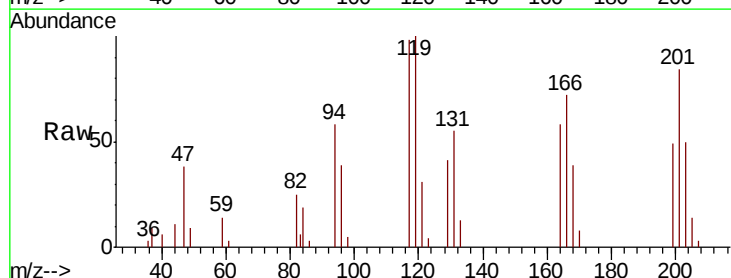
Manual Integrations
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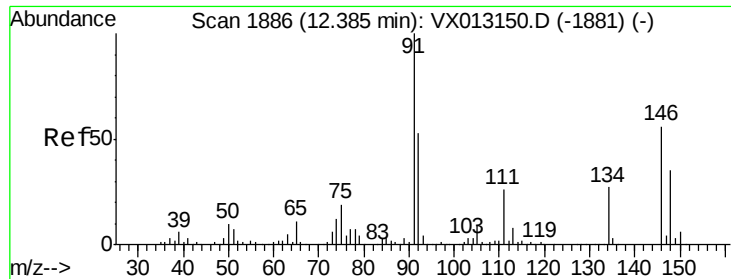
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#86
Hexachloroethane
Concen: 1.842 ug/l
RT: 12.59 min Scan# 1920
Delta R.T. -0.00 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	2384		
201	83.2	35.9	107.5	





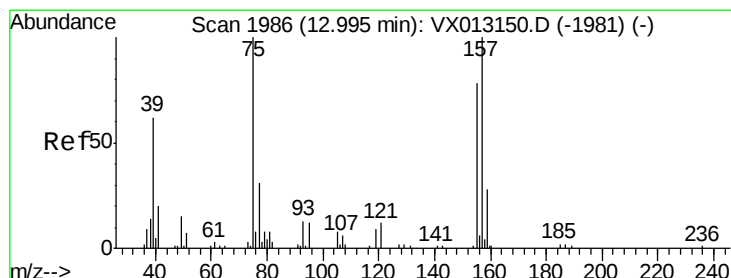
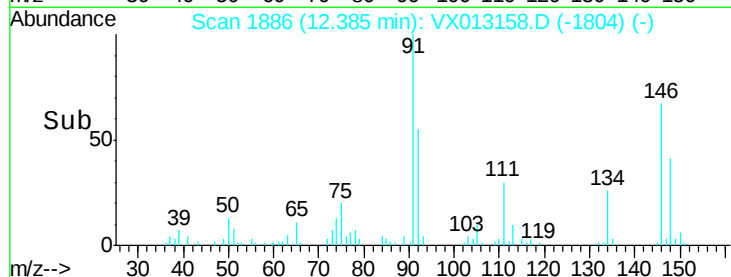
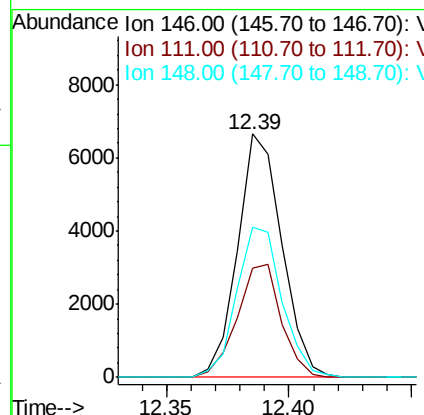
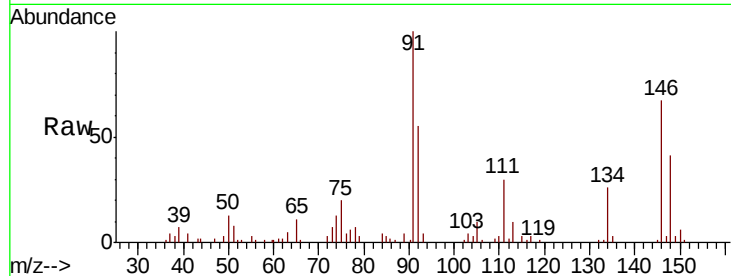
#87
 1,2-Dichlorobenzene
 Concen: 2.330 ug/l
 RT: 12.39 min Scan# 1886
 Delta R.T. -0.00 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
146	100		
111	46.5	22.5	67.5
148	63.5	31.4	94.2

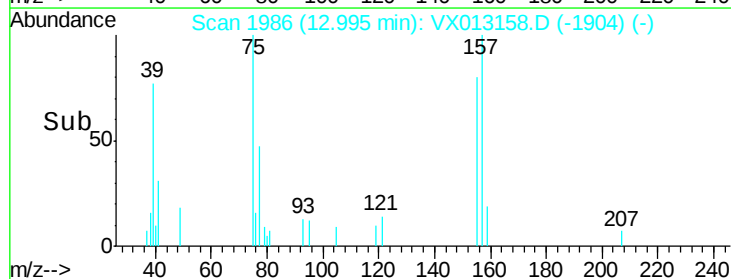
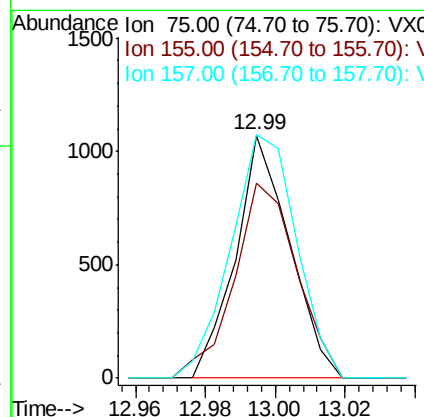
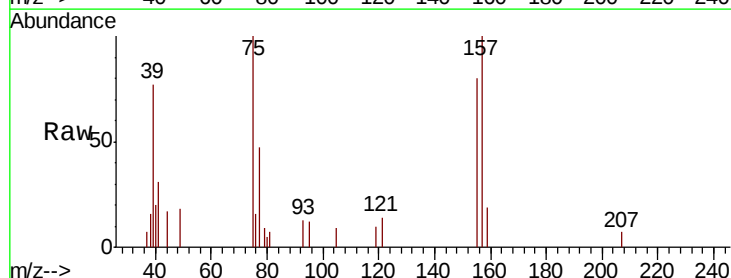
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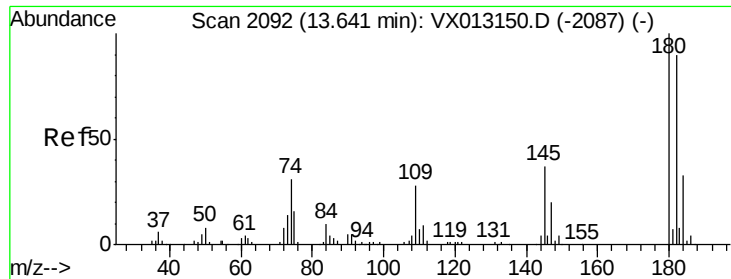
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 1.822 ug/l
 RT: 12.99 min Scan# 1986
 Delta R.T. -0.00 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.1	65.4	98.0
157	121.0	84.1	126.1





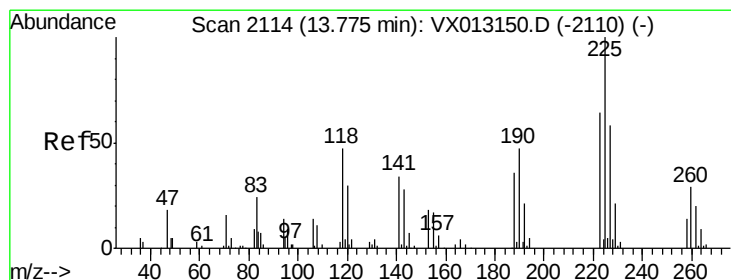
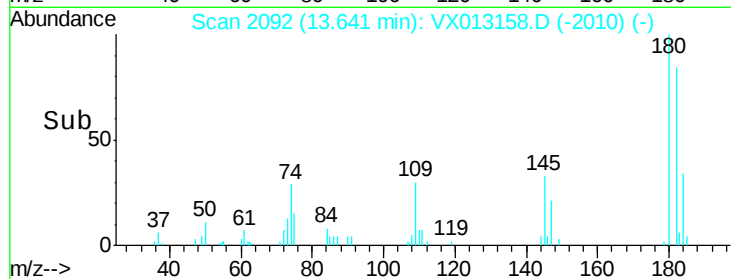
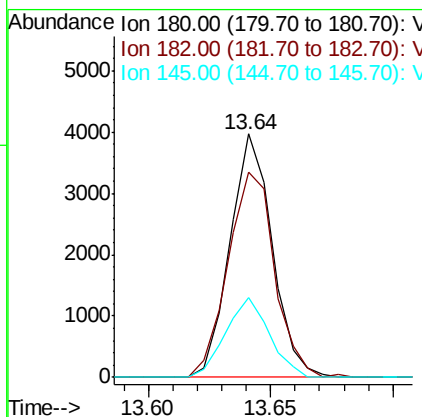
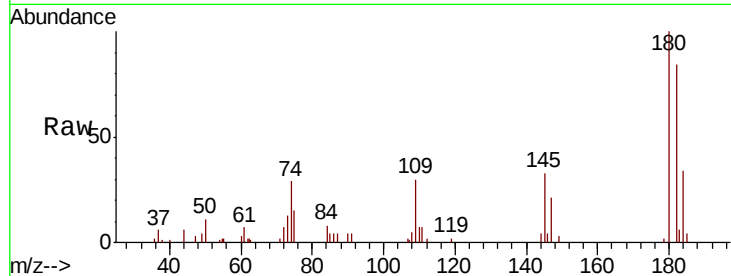
#89
 1,2,4-Trichlorobenzene
 Concen: 2.139 ug/l
 RT: 13.64 min Scan# 2092
 Delta R.T. -0.00 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.2	76.1	114.1
145	33.9	27.4	41.2

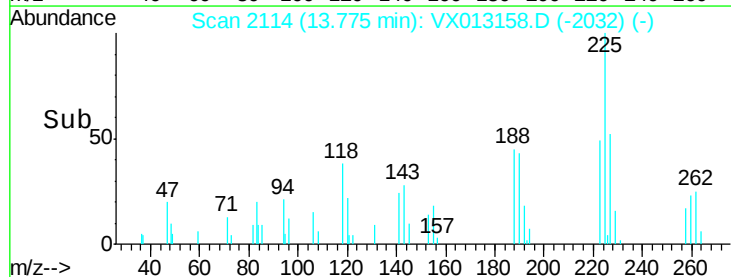
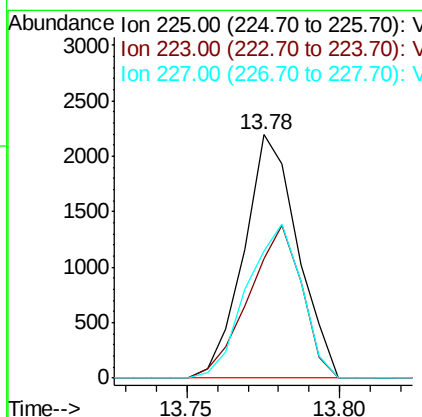
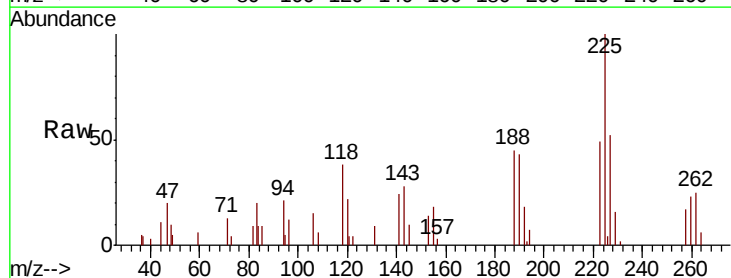
Manual Integrations
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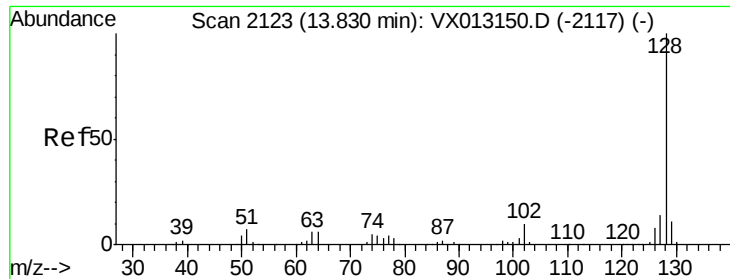
MMDadoda
 10/22/2019 12:32:08 PM



#90
 Hexachlorobutadiene
 Concen: 2.368 ug/l
 RT: 13.78 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VX013158.D
 Acq: 21 Oct 2019 17:41

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.8	0.0	131.2
227	64.1	0.0	127.0





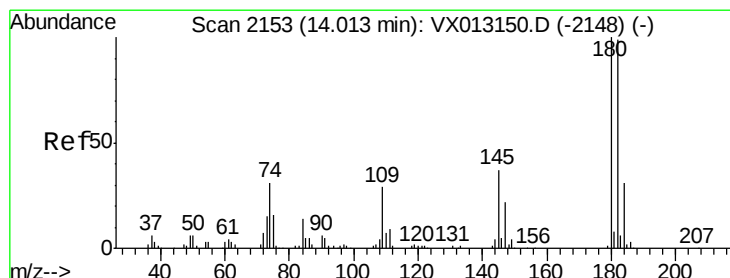
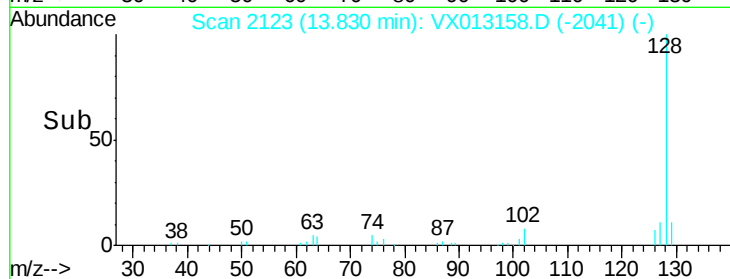
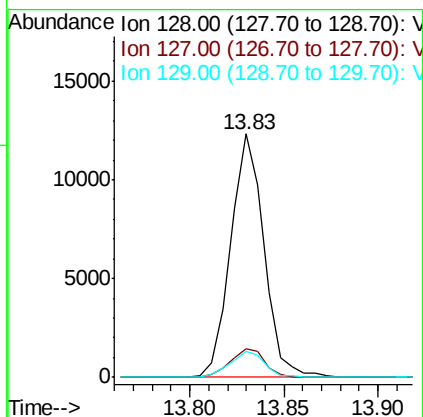
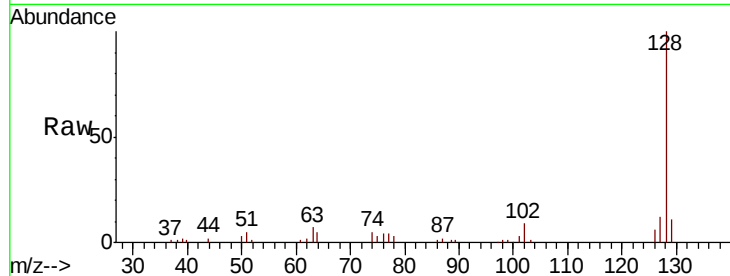
#91
Naphthalene
Concen: 2.089 ug/l
RT: 13.83 min Scan# 2123
Delta R.T. -0.00 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019DL

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.2	10.5	15.7
129	11.1	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
10/22/2019 12:32:08 PM



#92
1,2,3-Trichlorobenzene
Concen: 2.114 ug/l
RT: 14.01 min Scan# 2153
Delta R.T. -0.00 min
Lab File: VX013158.D
Acq: 21 Oct 2019 17:41

Tgt Ion	Ratio	Lower	Upper
180	100		
182	101.2	0.0	194.4
145	35.1	0.0	71.2

