

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX031119\
 Data File : VX007962.D
 Acq On : 11 Mar 2019 11:05
 Operator : JC/SP
 Sample : K1560-09
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 4 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

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 3/12/2019 1:09:54 PM

Quant Time: Mar 12 08:36:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\624X030819W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Mar 08 12:01:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	54264	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	289754	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	256396	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	105431	29.56	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.53%
60) 4-Bromofluorobenzene	11.13	95	122322	29.89	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.63%
63) Toluene-d8	8.71	98	350950	29.91	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	99.70%

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.20	85	7912	2.456	ug/l	94
3) Chloromethane	1.33	50	9880	2.758	ug/l	94
4) Vinyl Chloride	1.41	62	10101	2.847	ug/l	97
5) Bromomethane	1.64	94	6006	3.395	ug/l	98
6) Chloroethane	1.73	64	6246	3.014	ug/l	91
7) Trichlorofluoromethane	1.93	101	13396	3.032	ug/l	91
8) Diethyl Ether	2.19	74	5527	2.429	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.39	101	8529	2.567	ug/l	99
10) 1,1-Dichloroethene	2.38	96	7741	2.458	ug/l	95
11) Methyl Iodide	2.51	142	10974	2.226	ug/l	94
12) Methyl Acetate	2.78	43	14193	2.850	ug/l	96
13) Acrolein	2.29	56	9587	16.409	ug/l	96
14) Acrylonitrile	3.15	53	26209	12.398	ug/l	98
15) Acetone	2.45	58	9518	12.471	ug/l	95
16) Carbon Disulfide	2.57	76	22790	2.307	ug/l	99
17) Allyl chloride	2.73	41	15129	2.344	ug/l	89
18) Methylene Chloride	2.86	84	9195	2.563	ug/l	96
19) trans-1,2-Dichloroethene	3.17	96	8337	2.502	ug/l	89
20) Diisopropyl ether	3.87	45	28768	2.436	ug/l	96
21) 1,1-Dichloroethane	3.70	63	16015	2.493	ug/l	97
22) cis-1,2-Dichloroethene	4.59	96	9696	2.523	ug/l	90
23) tert-Butyl Alcohol	3.06	59	11299	13.249	ug/l #	100
24) Methyl tert-Butyl Ether	3.20	73	27068	2.500	ug/l	95
25) Chloroform	5.21	83	15198	2.507	ug/l	99
26) Cyclohexane	5.57	56	13651	2.300	ug/l #	96
29) 1,1-Dichloropropene	5.80	75	11047	2.405	ug/l	88
30) 2-Butanone	4.70	43	37690	12.163	ug/l	97
31) 2,2-Dichloropropane	4.59	77	10908	2.571	ug/l	98
32) 1,1,1-Trichloroethane	5.49	97	12324	2.481	ug/l #	74
33) Carbon Tetrachloride	5.77	117	10658	2.419	ug/l	91
34) Benzene	6.14	78	34313	2.437	ug/l	99
35) Methacrylonitrile	5.05	41	7453	2.468	ug/l	90
36) 1,2-Dichloroethane	6.20	62	12036	2.628	ug/l	99
37) Trichloroethene	7.21	130	9837	2.579	ug/l	91
38) Methylcyclohexane	7.46	83	13762	2.356	ug/l	94
39) 1,2-Dichloropropane	7.51	63	9286	2.529	ug/l	95
40) Dibromomethane	7.66	93	5704	2.449	ug/l	88

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

41) Bromodichloromethane	7.90	83	10589	2.405	ug/l	99
42) Vinyl Acetate	3.82	43	117292	11.694	ug/l	96
43) Ethyl Acetate	4.85	43	13539	2.508	ug/l #	79
44) Isopropyl Acetate	6.45	43	19057	2.314	ug/l	98
45) 1,4-Dioxane	7.75	88	4019	46.645	ug/l #	84
46) Methyl methacrylate	7.77	41	9774	2.257	ug/l	89
47) n-amyl Acetate	10.90	43	15054	2.122	ug/l	99
48) t-1,3-Dichloropropene	9.04	75	10331	2.167	ug/l	97
49) cis-1,3-Dichloropropene	8.43	75	11792	2.184	ug/l	97
50) 1,1,2-Trichloroethane	9.21	97	8858	2.495	ug/l	91
51) Ethyl methacrylate	9.18	69	12079	2.244	ug/l	94
52) 1,3-Dichloropropane	9.37	76	14539	2.479	ug/l	99
53) Dibromochloromethane	9.58	129	8515	2.332	ug/l	98
54) 1,2-Dibromoethane	9.67	107	9076	2.445	ug/l	98
55) 2-Chloroethyl vinyl ether	8.31	63	29256	11.683	ug/l	98
56) Bromoform	10.86	173	6629	2.276	ug/l #	98
58) 4-Methyl-2-Pentanone	8.65	43	60540	11.468	ug/l	98
59) 2-Hexanone	9.49	43	48241	11.577	ug/l	99
61) Tetrachloroethene	9.34	164	10328	2.761	ug/l	94
62) Toluene	8.78	91	37762	2.522	ug/l	99
64) Chlorobenzene	10.13	112	24114	2.527	ug/l	100
65) 1,1,1,2-Tetrachloroethane	10.22	131	8095	2.369	ug/l	95
66) Ethyl Benzene	10.25	91	37693	2.344	ug/l	99
67) m/p-Xylenes	10.36	106	29146	4.727	ug/l	96
68) o-Xylene	10.70	106	14017	2.341	ug/l	96
69) Styrene	10.71	104	22374	2.268	ug/l	98
70) Isopropylbenzene	11.02	105	38103	2.381	ug/l	96
71) 1,1,2,2-Tetrachloroethane	11.27	83	13165	2.491	ug/l	97
72) 1,2,3-Trichloropropane	11.29	75	12248m	2.459	ug/l	
73) Bromobenzene	11.26	156	10562	2.483	ug/l	96
74) n-propylbenzene	11.36	91	41880	2.321	ug/l	99
75) 2-Chlorotoluene	11.42	91	26233	2.425	ug/l	95
76) 1,3,5-Trimethylbenzene	11.51	105	31127	2.347	ug/l	98
77) t-1,4-Dichloro-2-butene	11.07	75	3046	1.979	ug/l	89
78) 4-Chlorotoluene	11.51	91	28953	2.367	ug/l	97
79) tert-butylbenzene	12.06	119	31906	2.242	ug/l	99
80) 1,2,4-Trimethylbenzene	11.80	105	31300	2.326	ug/l	96
81) sec-Butylbenzene	11.94	105	37304	2.341	ug/l	99
82) p-Isopropyltoluene	12.06	119	31906	2.242	ug/l	99
83) 1,3-Dichlorobenzene	12.02	146	18356	2.424	ug/l	98
84) 1,4-Dichlorobenzene	12.10	146	18196	2.401	ug/l	99
85) n-Butylbenzene	12.39	91	25813	2.121	ug/l	98
86) Hexachloroethane	12.60	117	5163	2.227	ug/l	77
87) 1,2-Dichlorobenzene	12.39	146	18425	2.462	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	13.00	75	2502	2.318	ug/l	92
89) 1,2,4-Trichlorobenzene	13.65	180	12035	2.237	ug/l	98
90) Hexachlorobutadiene	13.78	225	7213	2.431	ug/l	98
91) Naphthalene	13.83	128	31699	2.056	ug/l	100
92) 1,2,3-Trichlorobenzene	14.02	180	12118	2.267	ug/l	97

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

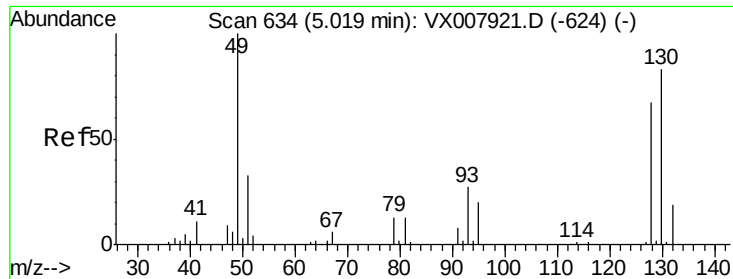
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QLast Update : Fri Mar 08 12:01:36 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.02 min Scan# 634

Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Instrument :

MSVOA_X

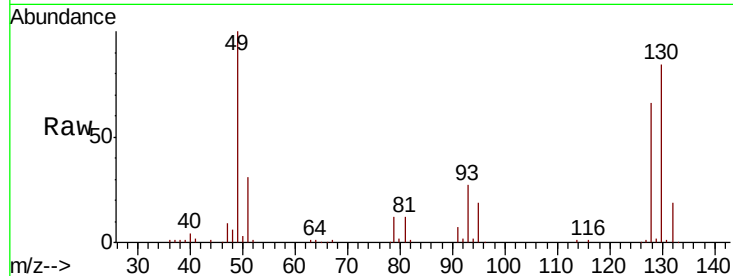
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

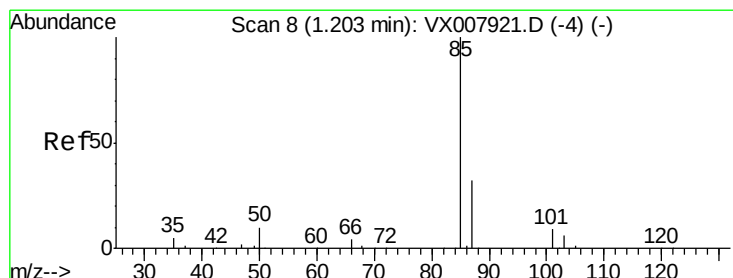
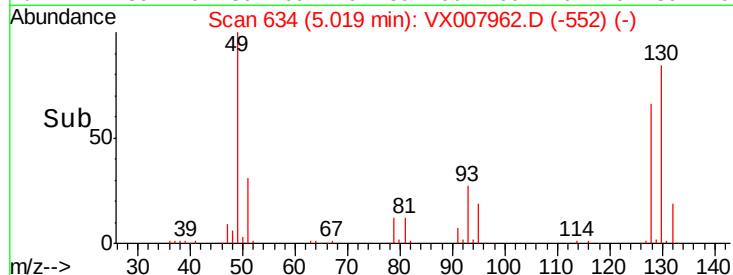
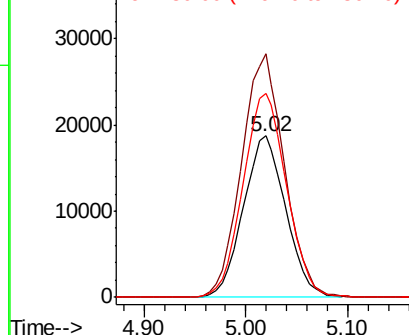
Tgt Ion:	128	Resp:	54264
Ion	Ratio	Lower	Upper
128	100		
49	151.9	0.0	350.8
130	129.4	0.0	325.8

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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: 2.456 ug/l

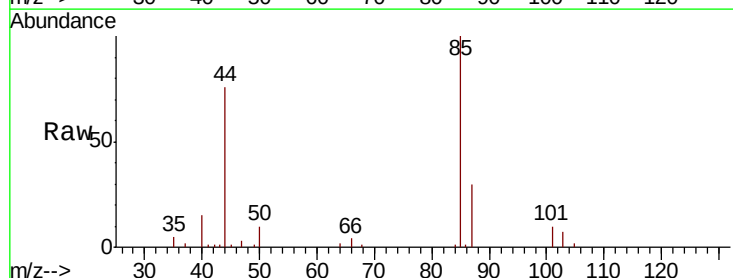
RT: 1.20 min Scan# 8

Delta R.T. 0.00 min

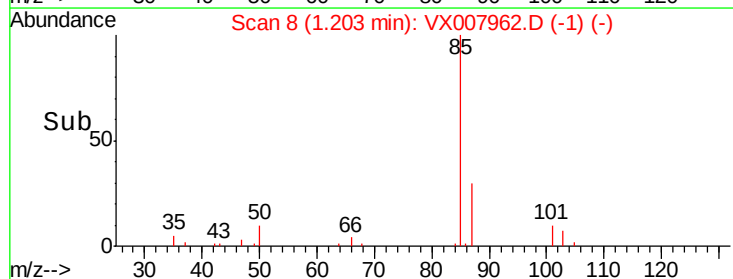
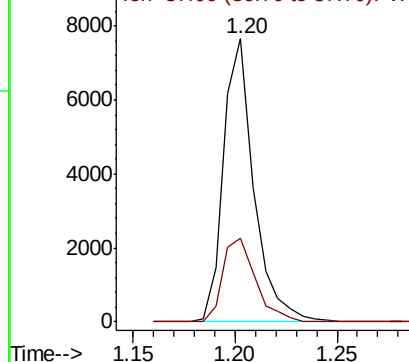
Lab File: VX007962.D

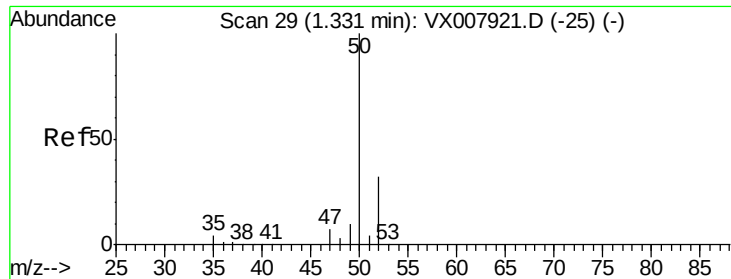
Acq: 11 Mar 2019 11:05

Tgt Ion:	85	Resp:	7912
Ion	Ratio	Lower	Upper
85	100		
87	29.8	16.6	49.8



Abundance Ion 85.00 (84.70 to 85.70): VX0
Ion 87.00 (86.70 to 87.70): VX0





#3

Chloromethane

Concen: 2.758 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tgt Ion: 50 Resp: 9880

Ion Ratio Lower Upper

50 100

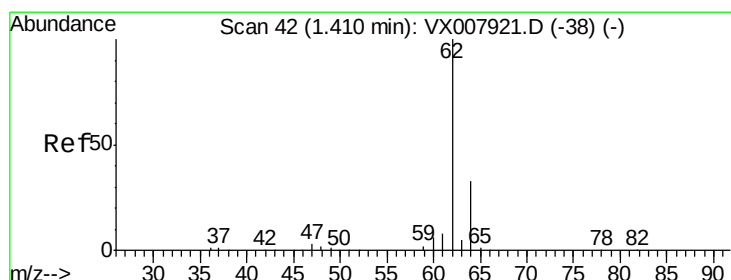
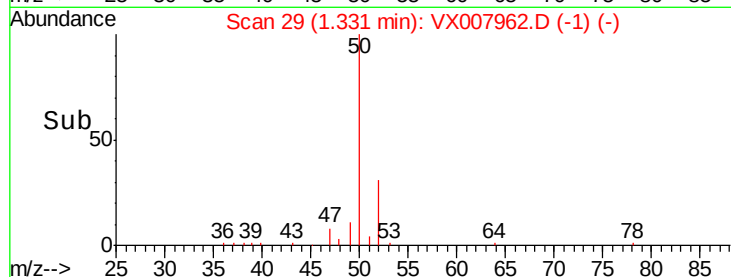
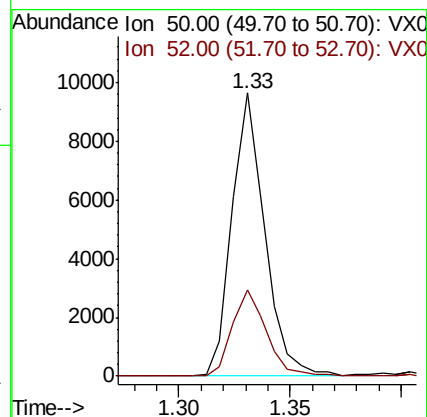
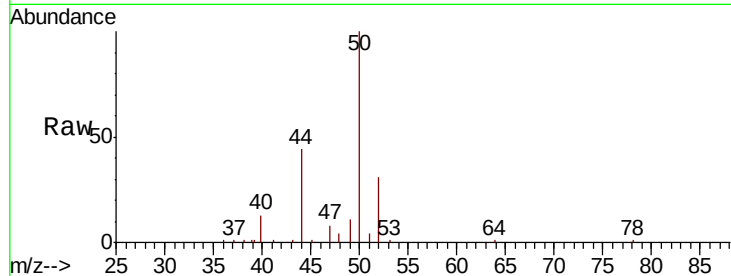
52 30.7 27.5 41.3

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#4

Vinyl Chloride

Concen: 2.847 ug/l

RT: 1.41 min Scan# 42

Delta R.T. 0.00 min

Lab File: VX007962.D

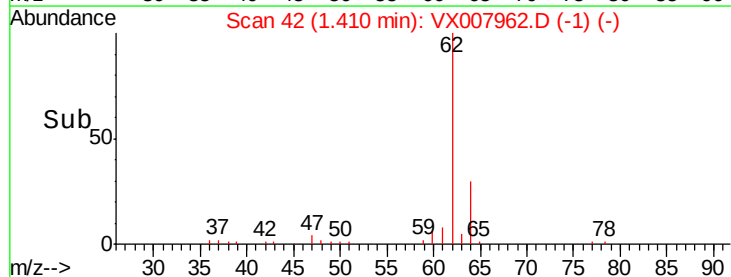
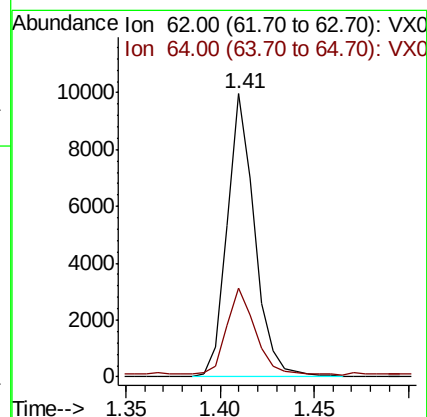
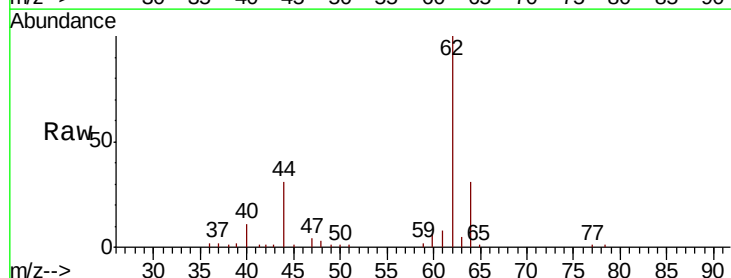
Acq: 11 Mar 2019 11:05

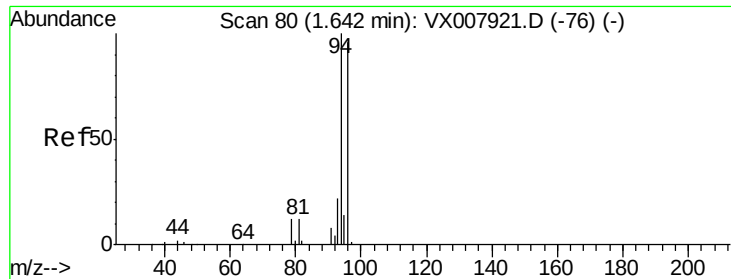
Tgt Ion: 62 Resp: 10101

Ion Ratio Lower Upper

62 100

64 30.5 25.9 38.9





#5

Bromomethane

Concen: 3.395 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tgt Ion: 94 Resp: 6006

Ion Ratio Lower Upper

94 100

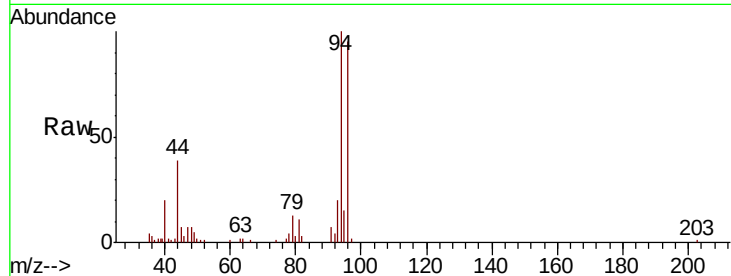
96 96.6 75.6 113.4

Manual Integrations

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Abundance Ion 94.00 (93.70 to 94.70): VX0

Ion 96.00 (95.70 to 96.70): VX0

6000

5000

4000

3000

2000

1000

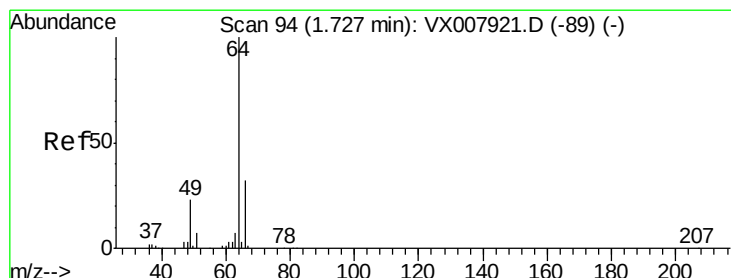
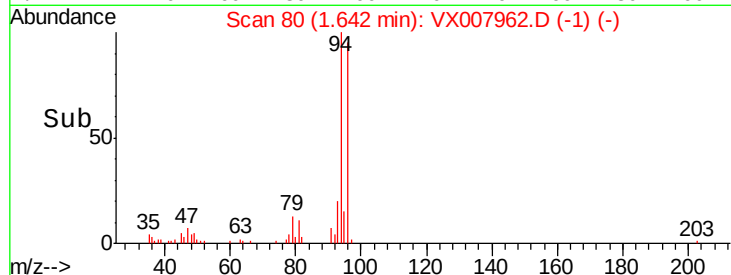
0

1.60

1.65

1.70

Time-->



#6

Chloroethane

Concen: 3.014 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.00 min

Lab File: VX007962.D

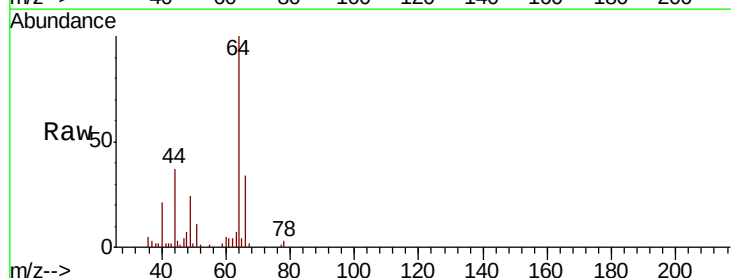
Acq: 11 Mar 2019 11:05

Tgt Ion: 64 Resp: 6246

Ion Ratio Lower Upper

64 100

66 35.0 23.9 35.9



Abundance Ion 64.00 (63.70 to 64.70): VX0

Ion 66.00 (65.70 to 66.70): VX0

5000

4000

3000

2000

1000

0

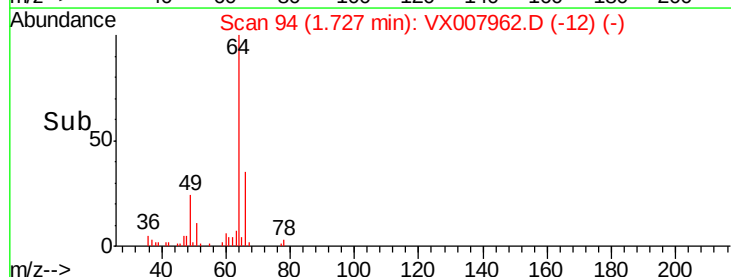
1.65

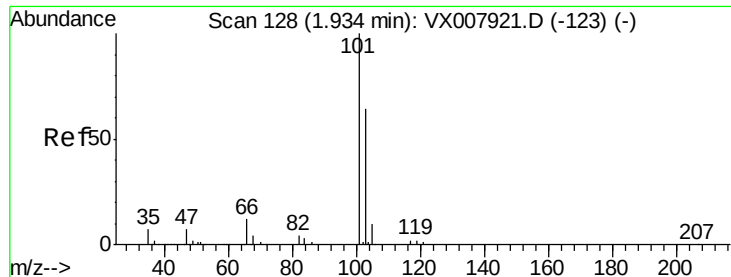
1.70

1.75

1.80

Time-->





#7

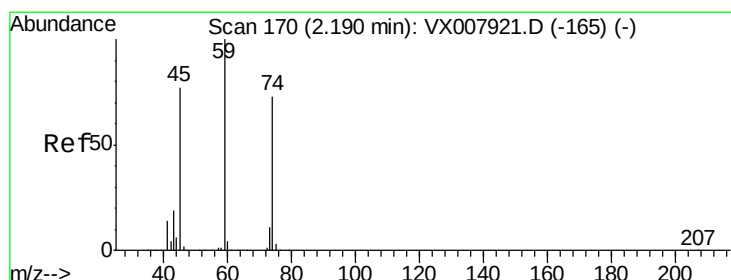
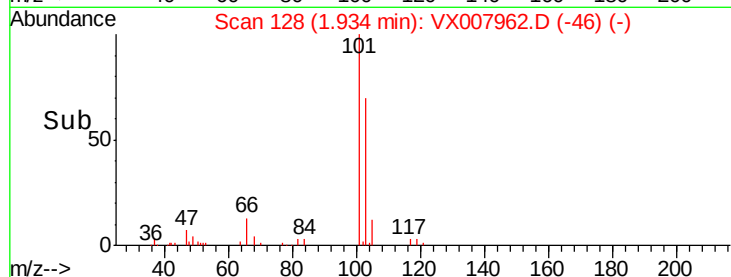
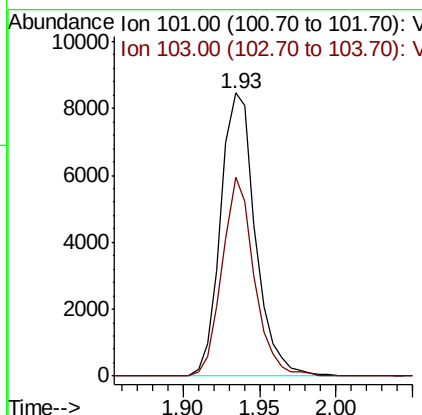
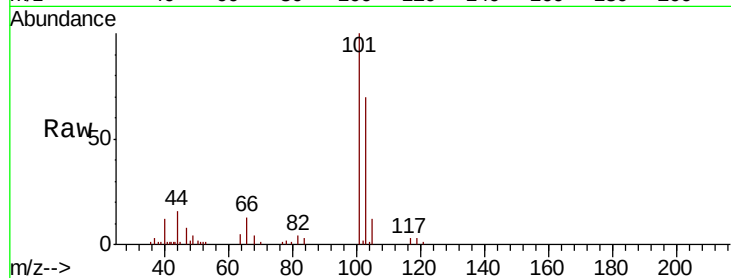
Trichlorofluoromethane
Concen: 3.032 ug/l
RT: 1.93 min Scan# 128
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

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Tgt Ion	Ratio	Lower	Upper
101	100		
103	70.3	50.4	75.6

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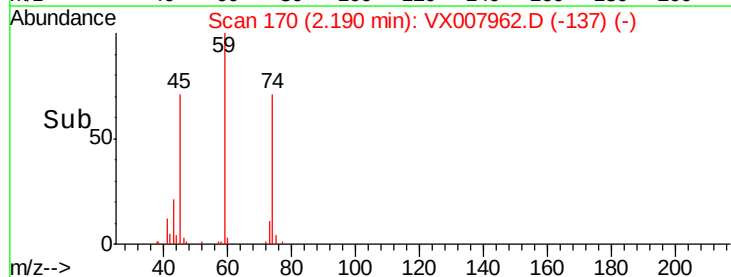
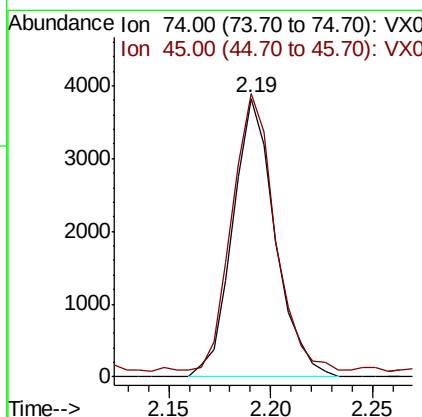
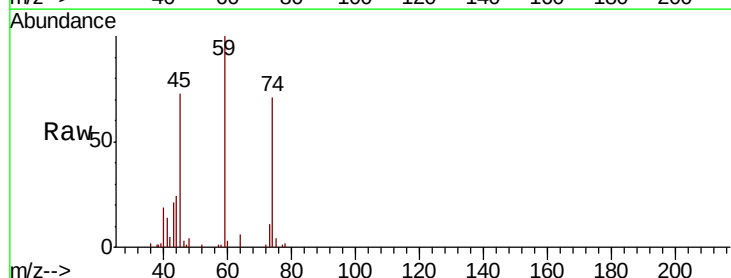
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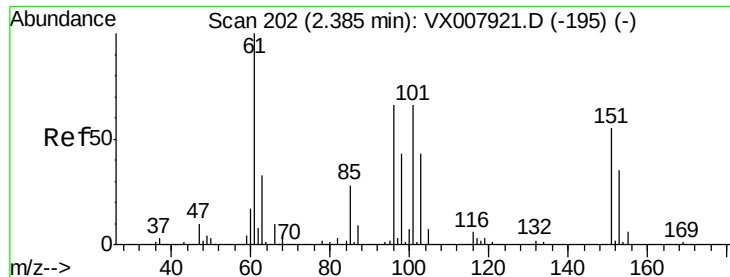


#8

Diethyl Ether
Concen: 2.429 ug/l
RT: 2.19 min Scan# 170
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

Tgt Ion	Ratio	Lower	Upper
74	100		
45	100.9	18.6	167.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.567 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Instrument :

MSVOA_X

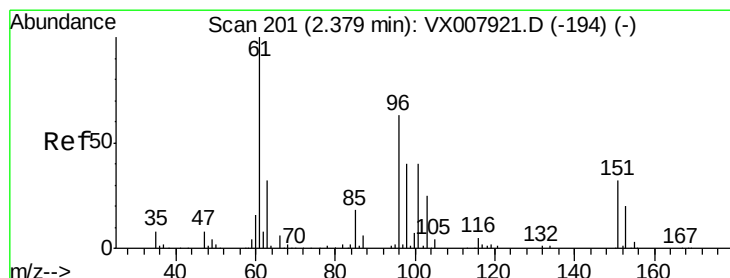
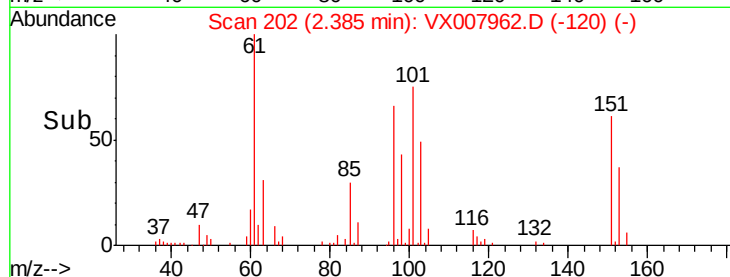
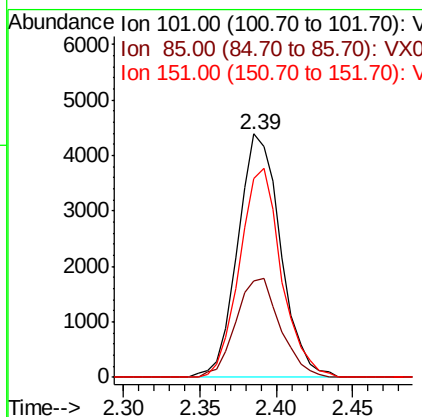
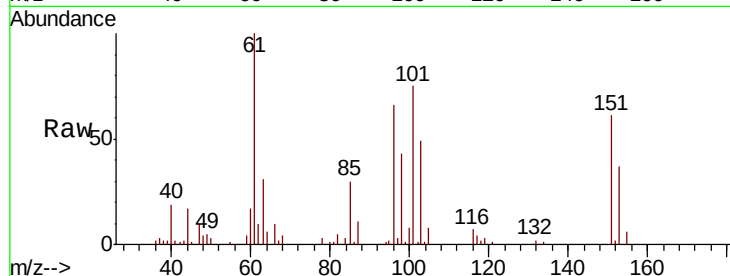
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tgt Ion:	101	Resp:	8529
Ion	Ratio	Lower	Upper
101	100		
85	42.1	0.0	86.8
151	83.9	0.0	169.2

Manual Integrations
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#10

1,1-Dichloroethene

Concen: 2.458 ug/l

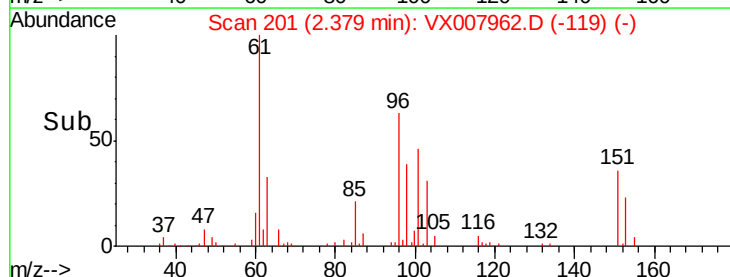
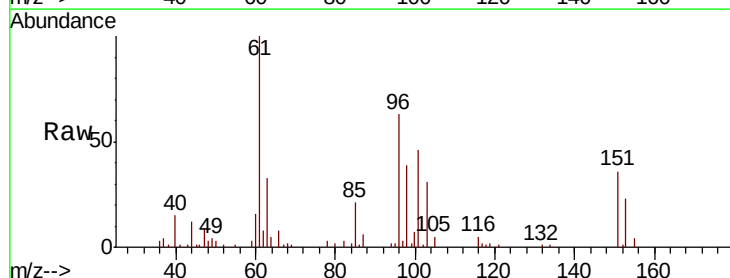
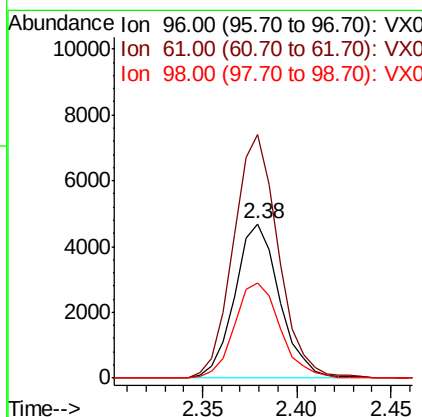
RT: 2.38 min Scan# 201

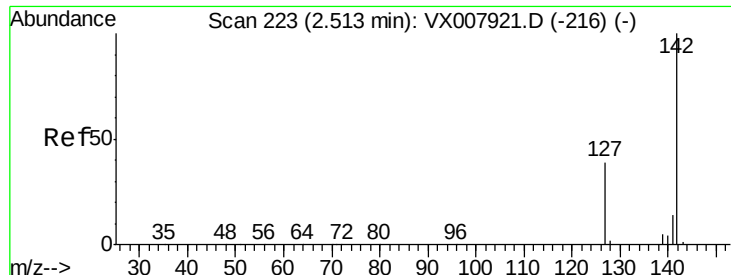
Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Tgt Ion:	96	Resp:	7741
Ion	Ratio	Lower	Upper
96	100		
61	158.0	120.2	180.2
98	61.9	49.0	73.4





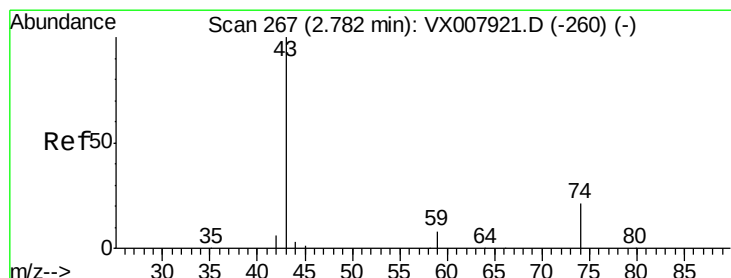
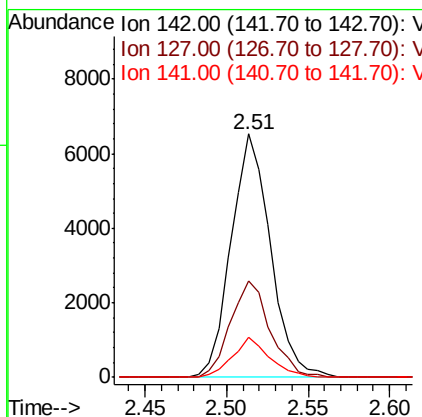
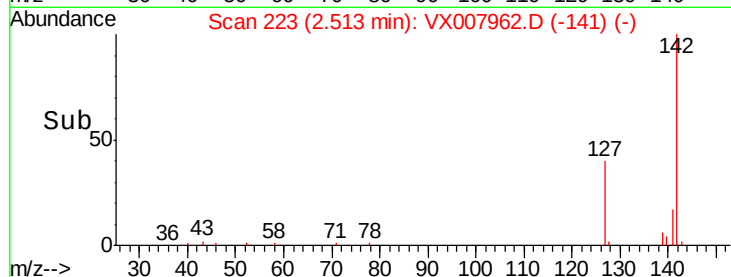
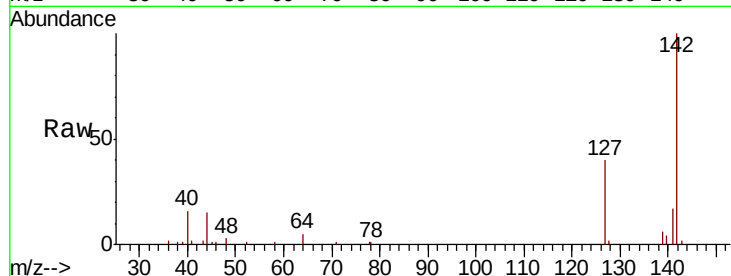
#11
Methyl Iodide
Concen: 2.226 ug/l
RT: 2.51 min Scan# 223
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

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

Tgt Ion	Ratio	Lower	Upper
142	100		
127	39.7	22.1	66.5
141	16.6	7.4	22.3

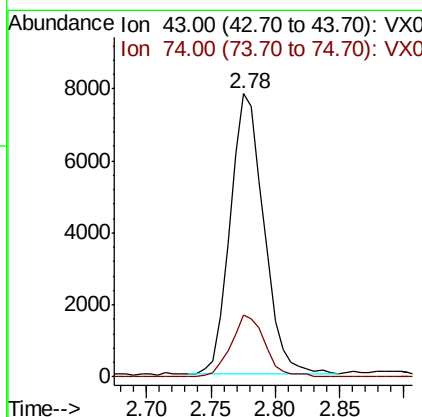
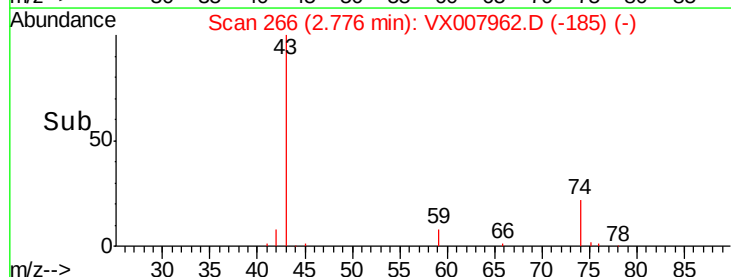
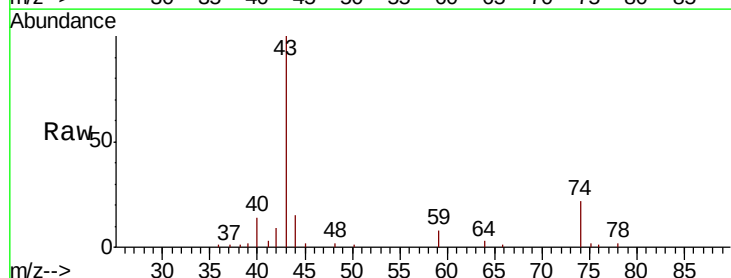
Manual Integrations
APPROVED

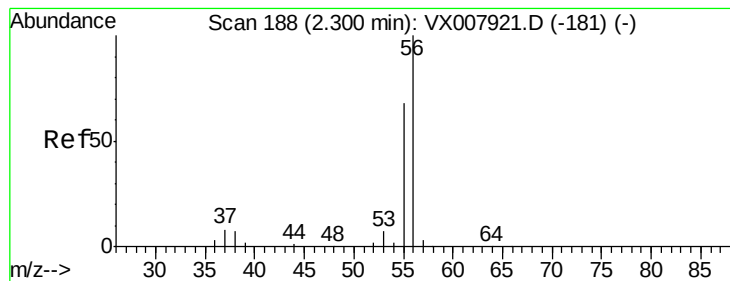
MMDadoda
3/12/2019 1:09:54 PM



#12
Methyl Acetate
Concen: 2.850 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

Tgt Ion	Ratio	Lower	Upper
43	100		
74	22.2	19.4	29.0





#13

Acrolein

Concen: 16.409 ug/l

RT: 2.29 min Scan# 187

Delta R.T. -0.01 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tgt Ion: 56 Resp: 9587

Ion Ratio Lower Upper

56 100

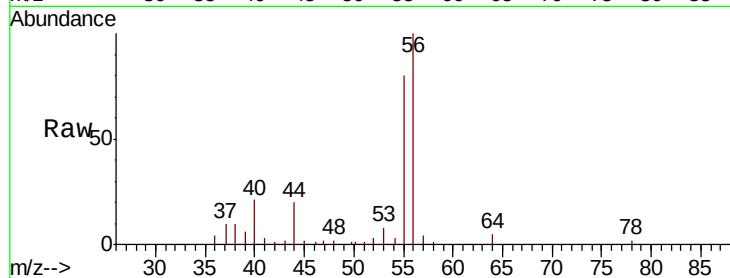
55 76.1 58.6 87.8

Manual Integrations

APPROVED

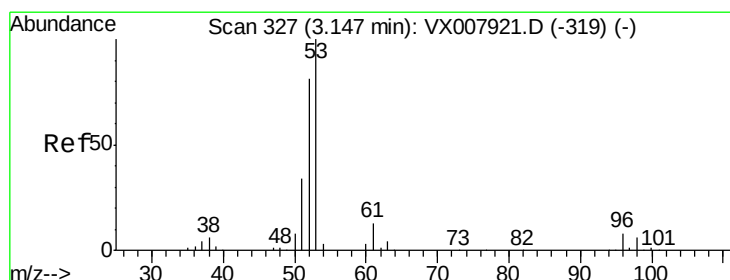
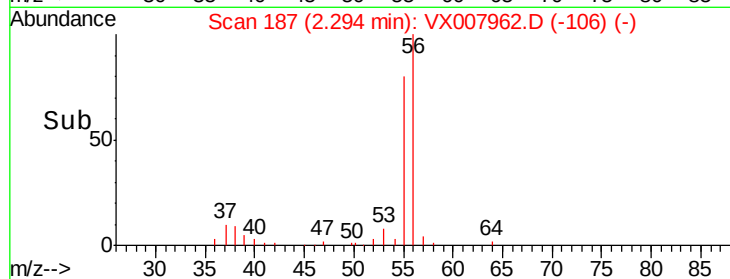
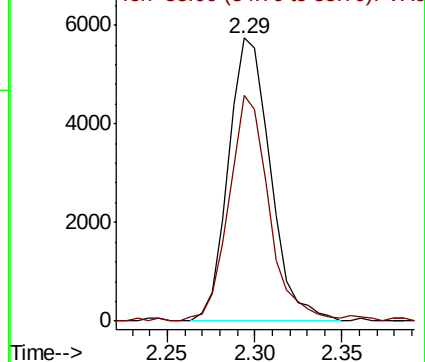
MMDadoda

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Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#14

Acrylonitrile

Concen: 12.398 ug/l

RT: 3.15 min Scan# 327

Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

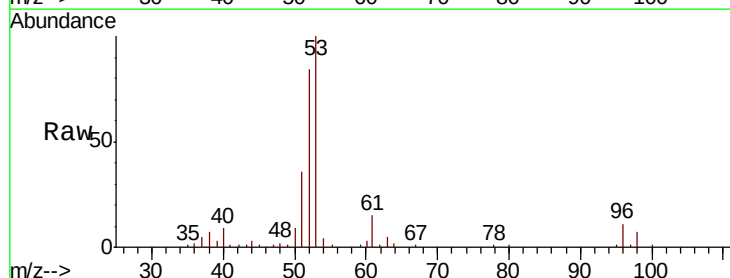
Tgt Ion: 53 Resp: 26209

Ion Ratio Lower Upper

53 100

52 84.3 41.3 124.1

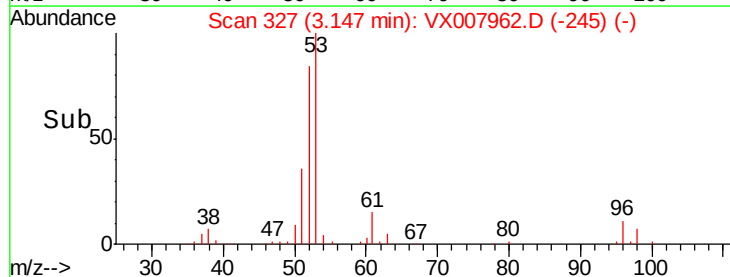
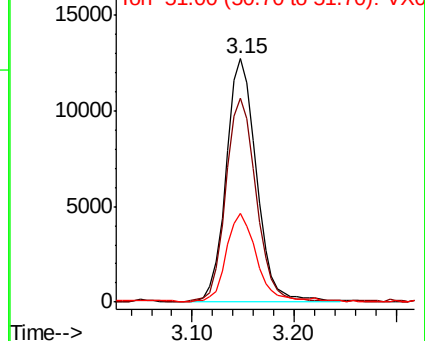
51 36.2 17.5 52.6

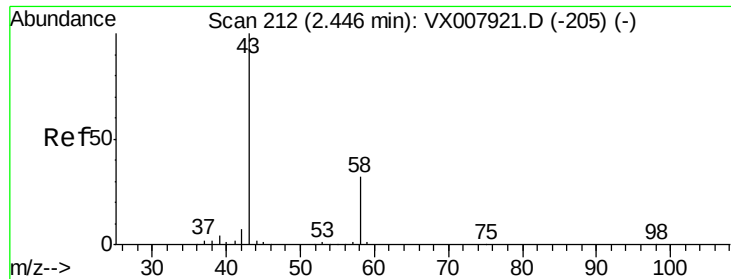


Abundance Ion 53.00 (52.70 to 53.70): VX0

Ion 52.00 (51.70 to 52.70): VX0

Ion 51.00 (50.70 to 51.70): VX0





#15

Acetone

Concen: 12.471 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tgt Ion: 58 Resp: 9518

Ion Ratio Lower Upper

58 100

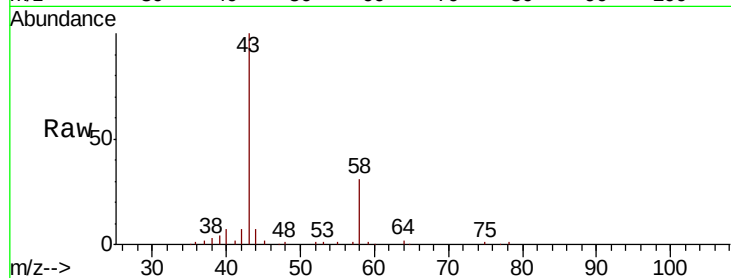
43 321.9 249.8 374.6

Manual Integrations

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Abundance Ion 58.00 (57.70 to 58.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

20000

15000

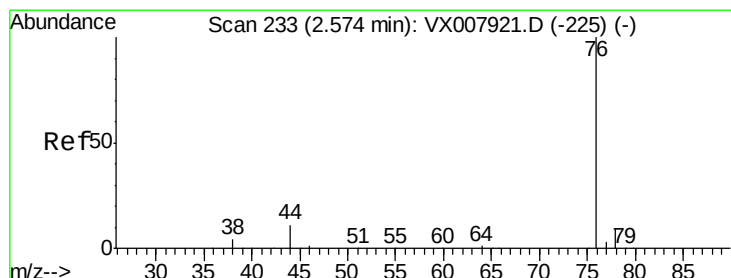
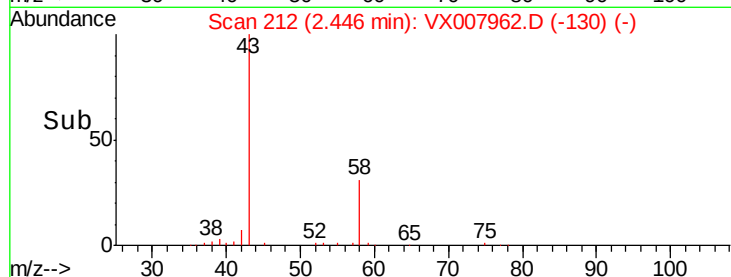
10000

5000

0

2.40 2.45 2.50

Time-->



#16

Carbon Disulfide

Concen: 2.307 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007962.D

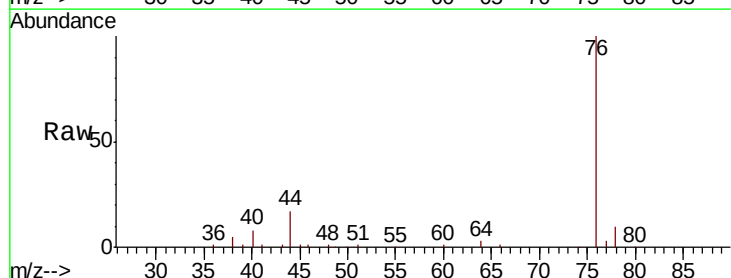
Acq: 11 Mar 2019 11:05

Tgt Ion: 76 Resp: 22790

Ion Ratio Lower Upper

76 100

78 9.1 7.5 11.3



Abundance Ion 76.00 (75.70 to 76.70): VX0

Ion 78.00 (77.70 to 78.70): VX0

15000

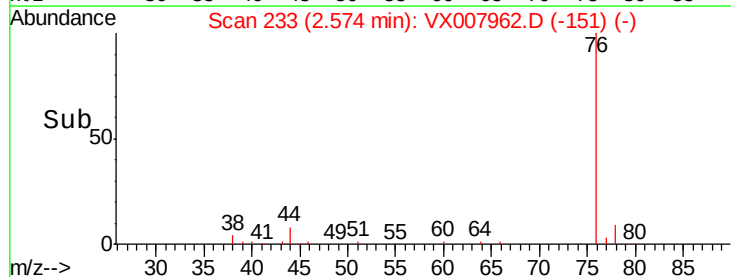
10000

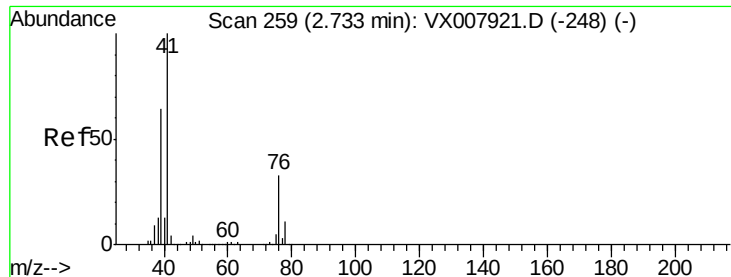
5000

0

2.50 2.55 2.60 2.65

Time-->





#17

Allyl chloride

Concen: 2.344 ug/l

RT: 2.73 min Scan# 259

Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Instrument :

MSVOA_X

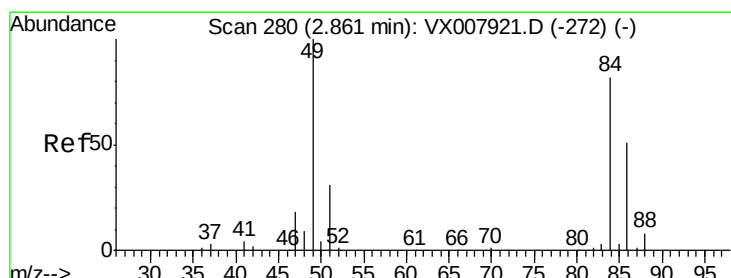
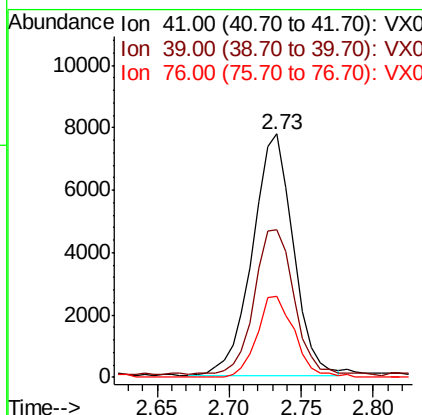
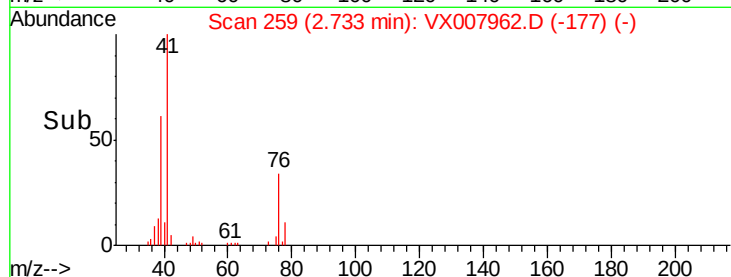
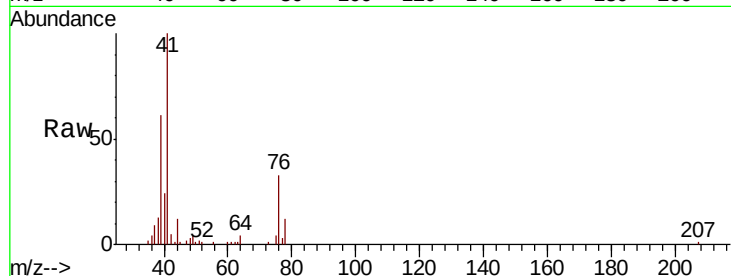
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tgt Ion:	41	Resp:	15129
Ion	Ratio	Lower	Upper
41	100		
39	60.3	35.8	107.4
76	33.6	18.3	54.9

Manual Integrations
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#18

Methylene Chloride

Concen: 2.563 ug/l

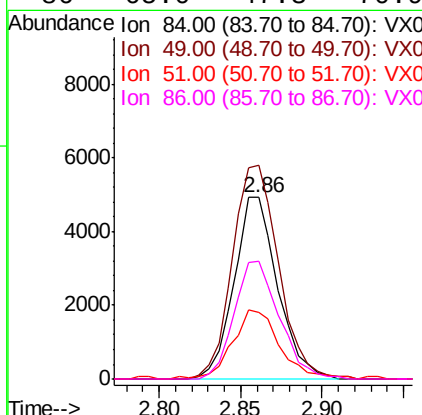
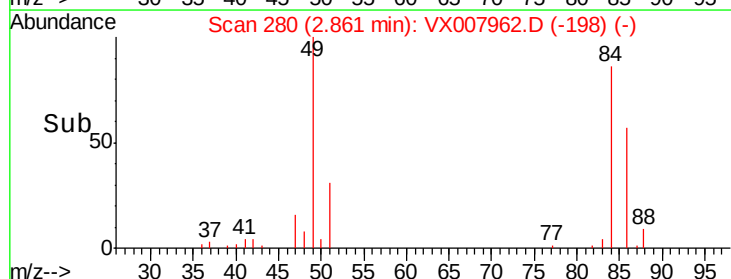
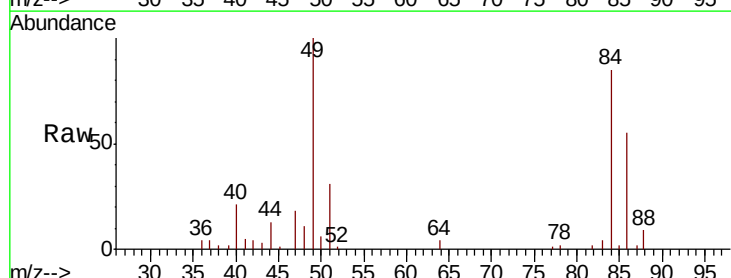
RT: 2.86 min Scan# 280

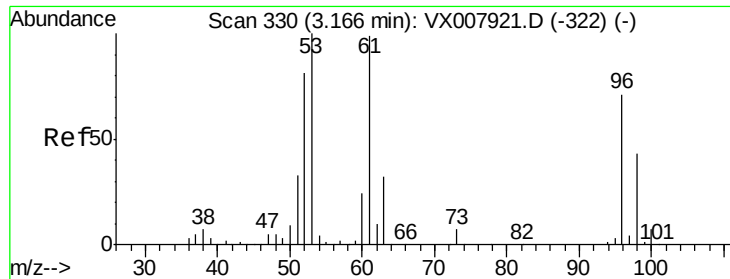
Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Tgt Ion:	84	Resp:	9195
Ion	Ratio	Lower	Upper
84	100		
49	117.5	96.1	144.1
51	35.9	29.1	43.7
86	65.0	47.3	70.9





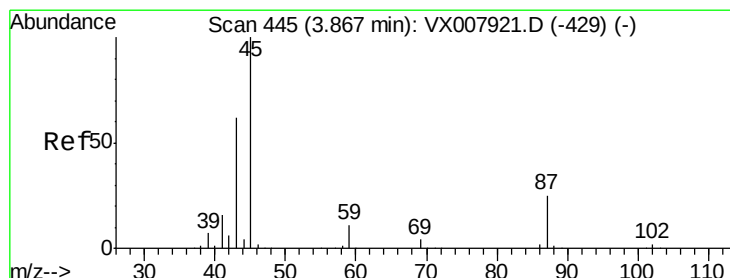
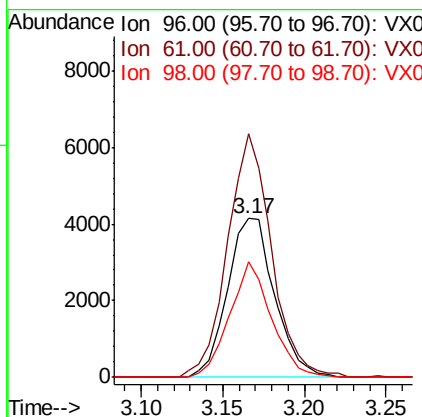
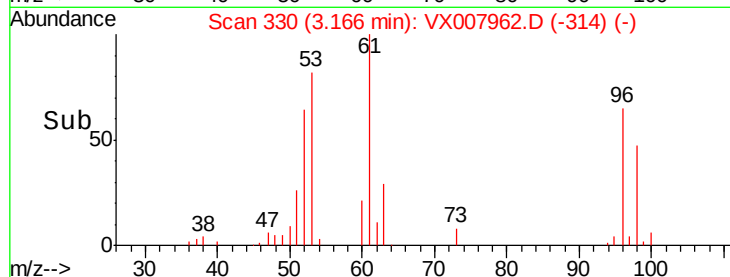
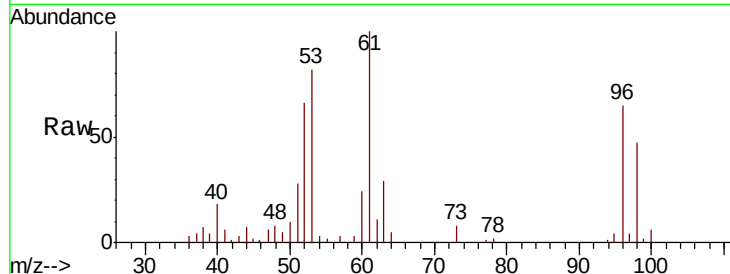
#19
trans-1,2-Dichloroethene
Concen: 2.502 ug/l
RT: 3.17 min Scan# 330
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

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

Tgt Ion:	96	Resp:	8337
Ion	Ratio	Lower	Upper
96	100		
61	150.5	109.9	164.9
98	72.7	50.4	75.6

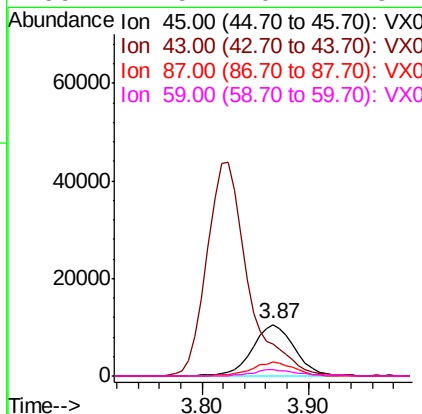
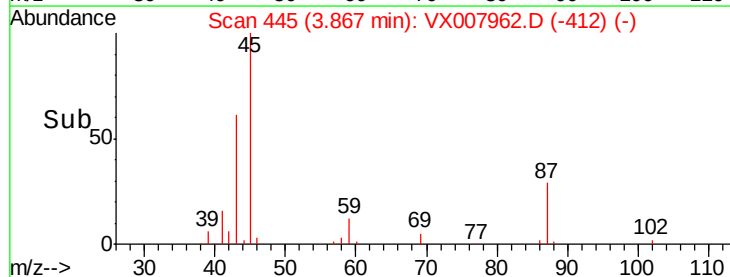
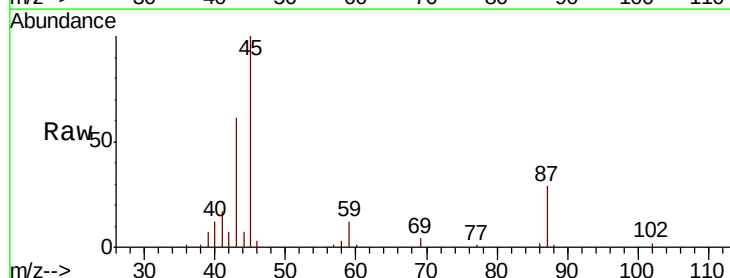
Manual Integrations
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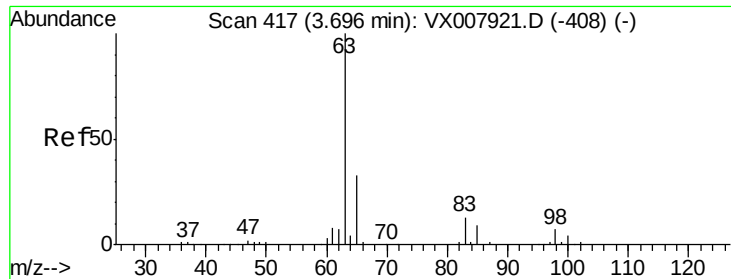
MMDadoda
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#20
Diisopropyl ether
Concen: 2.436 ug/l
RT: 3.87 min Scan# 445
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

Tgt Ion:	45	Resp:	28768
Ion	Ratio	Lower	Upper
45	100		
43	59.3	50.6	76.0
87	28.7	24.5	36.7
59	12.5	10.2	15.2





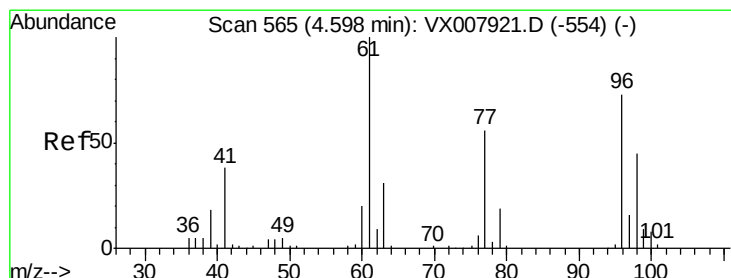
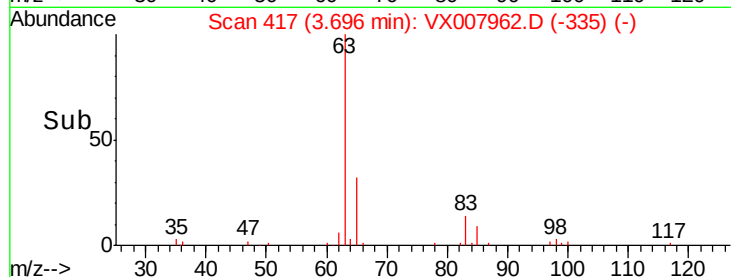
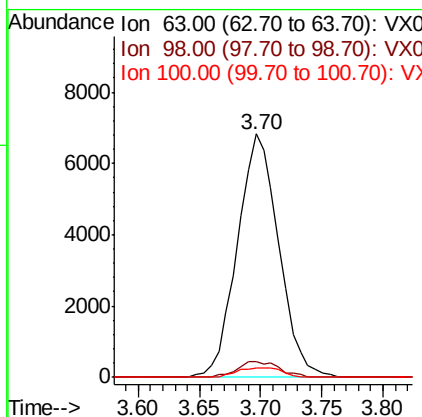
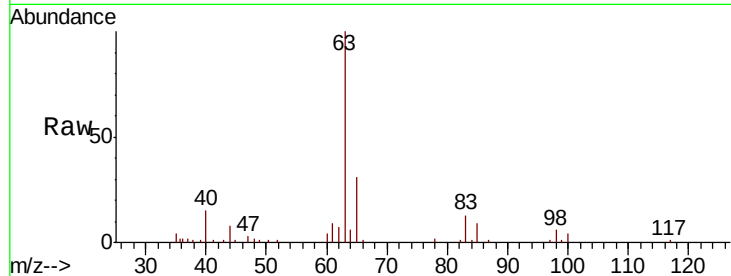
#21
 1,1-Dichloroethane
 Concen: 2.493 ug/l
 RT: 3.70 min Scan# 417
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

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

Tgt Ion	Ratio	Resp	Lower	Upper
63	100	16015		
98	6.3		3.8	11.4
100	4.1		2.4	7.1

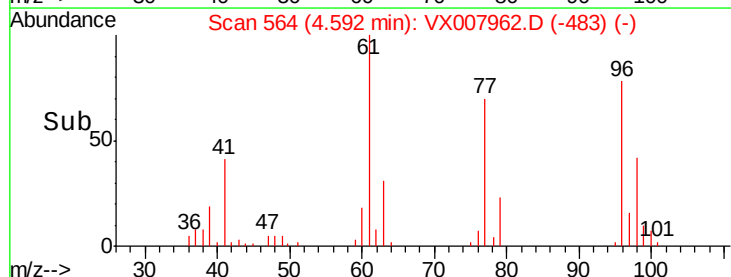
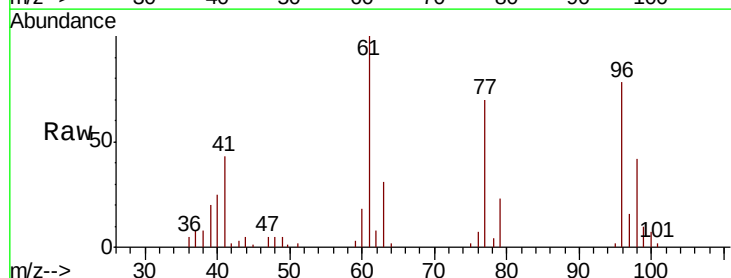
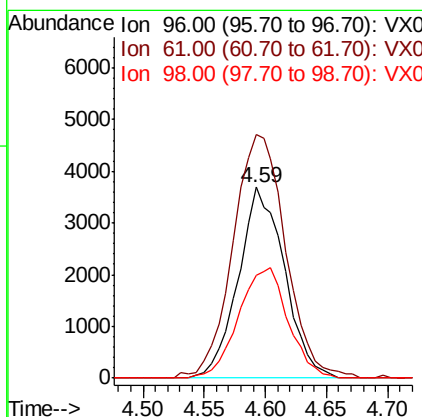
Manual Integrations
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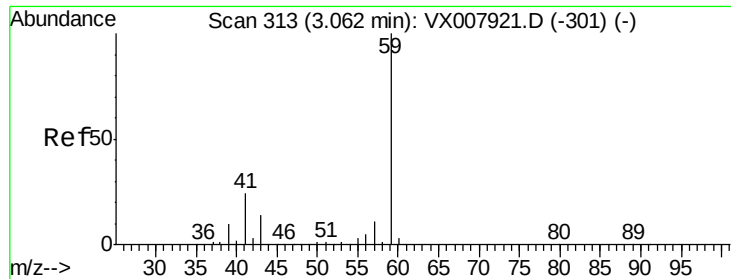
MMDadoda
 3/12/2019 1:09:54 PM



#22
 cis-1,2-Dichloroethene
 Concen: 2.523 ug/l
 RT: 4.59 min Scan# 564
 Delta R.T. -0.01 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	9696		
61	144.8		103.5	155.3
98	62.0		52.1	78.1





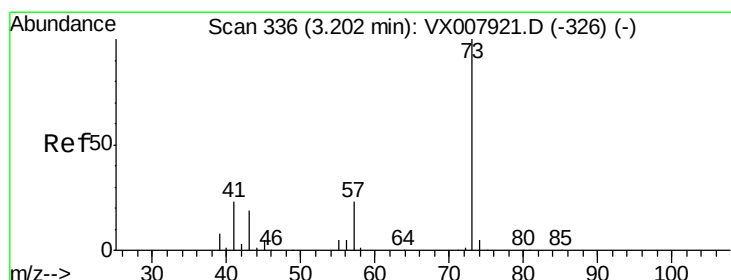
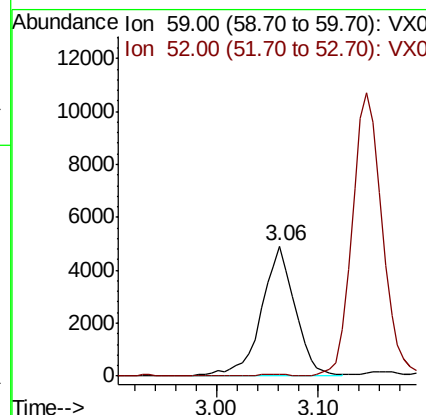
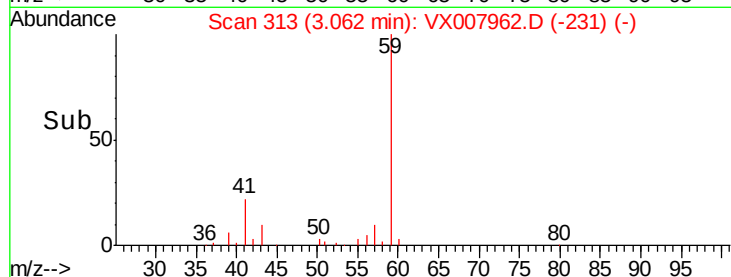
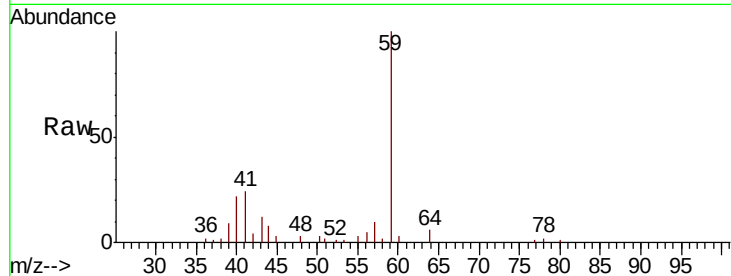
#23
 tert-Butyl Alcohol
 Concen: 13.249 ug/l
 RT: 3.06 min Scan# 313
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

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

Tgt Ion: 59 Resp: 11299
 Ion Ratio Lower Upper
 59 100
 52 0.5 0.2 0.2#

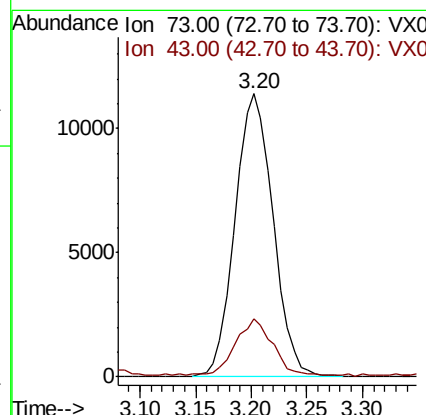
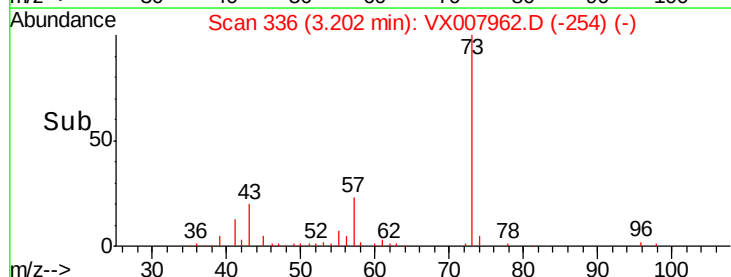
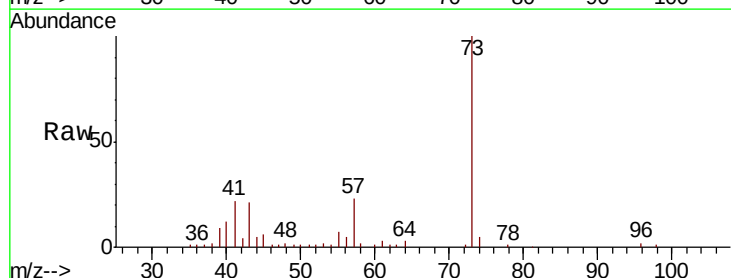
Manual Integrations
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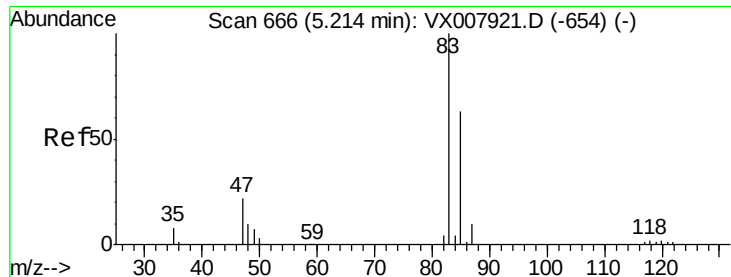
MMDadoda
 3/12/2019 1:09:54 PM



#24
 Methyl tert-Butyl Ether
 Concen: 2.500 ug/l
 RT: 3.20 min Scan# 336
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

Tgt Ion: 73 Resp: 27068
 Ion Ratio Lower Upper
 73 100
 43 18.9 17.1 25.7





#25

Chloroform

Concen: 2.507 ug/l

RT: 5.21 min Scan# 666

Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tgt Ion: 83 Resp: 15198

Ion Ratio Lower Upper

83 100

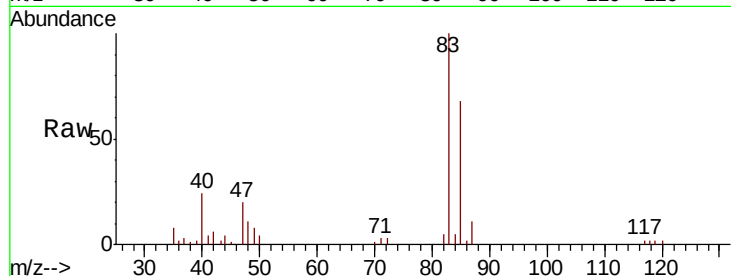
85 67.8 53.8 80.6

Manual Integrations

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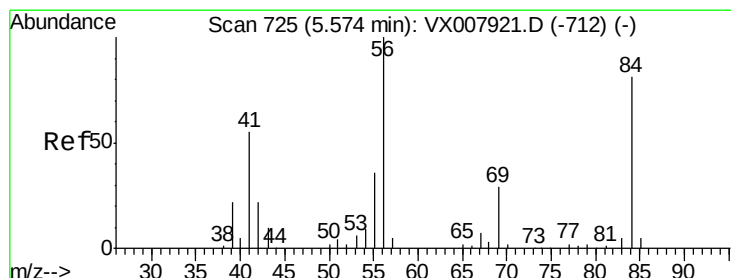
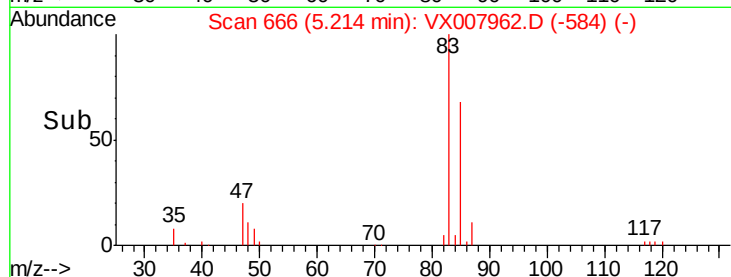
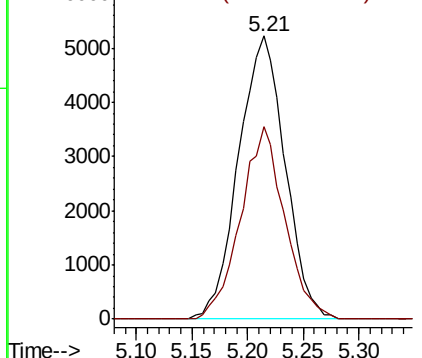
MMDadoda

3/12/2019 1:09:54 PM



Abundance Ion 83.00 (82.70 to 83.70): VX0

Ion 85.00 (84.70 to 85.70): VX0



#26

Cyclohexane

Concen: 2.300 ug/l

RT: 5.57 min Scan# 725

Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

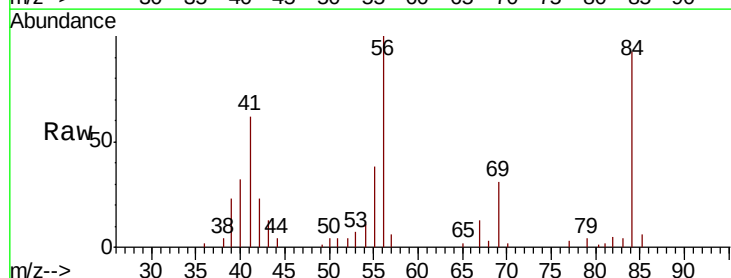
Tgt Ion: 56 Resp: 13651

Ion Ratio Lower Upper

56 100

89 0.0 0.0 0.0

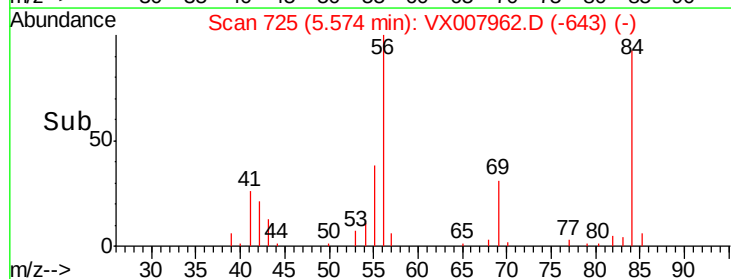
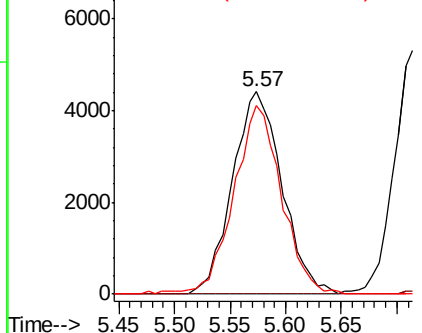
84 88.6 73.9 110.9

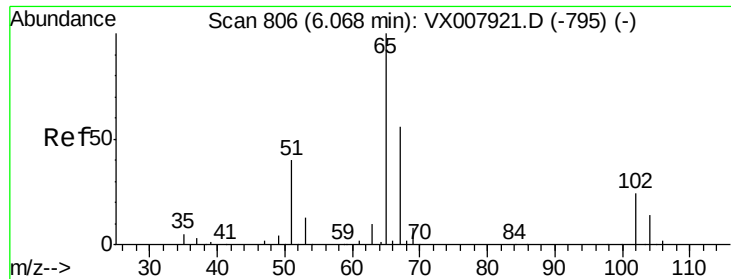


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 89.00 (88.70 to 89.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





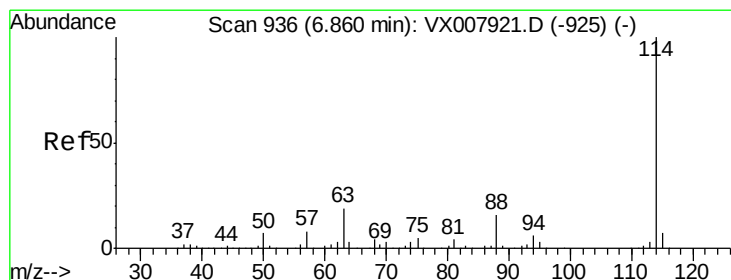
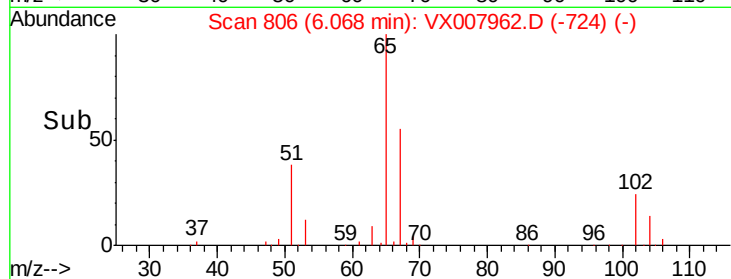
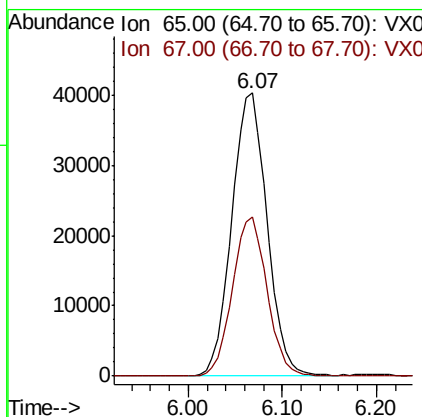
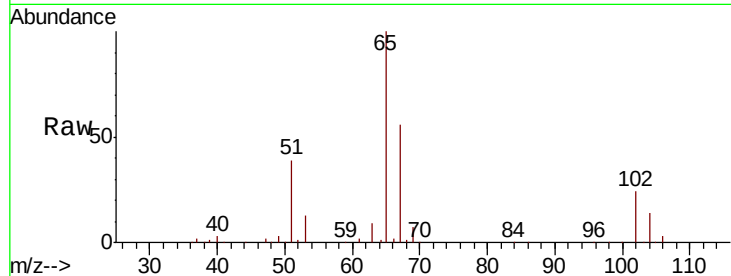
#27
 1,2-Dichloroethane-d4
 Concen: 29.560 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

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

Tgt Ion: 65 Resp: 105431
 Ion Ratio Lower Upper
 65 100
 67 55.0 42.9 64.3

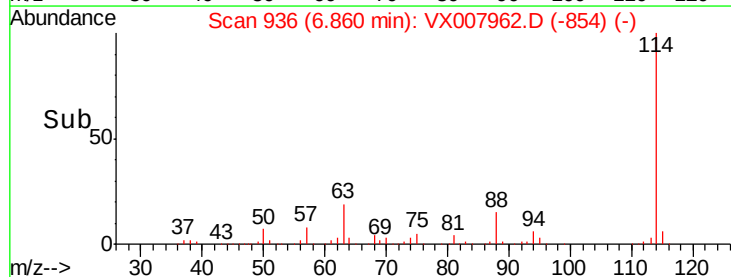
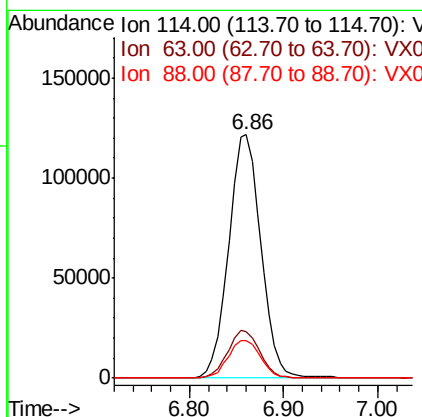
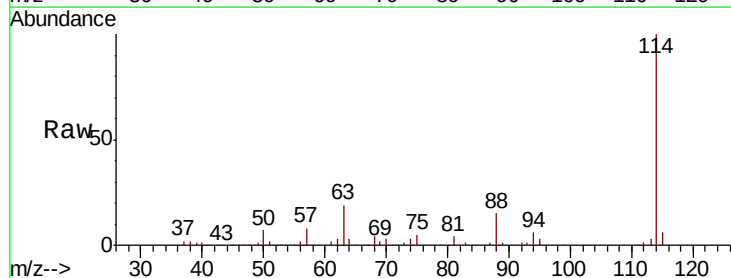
Manual Integrations
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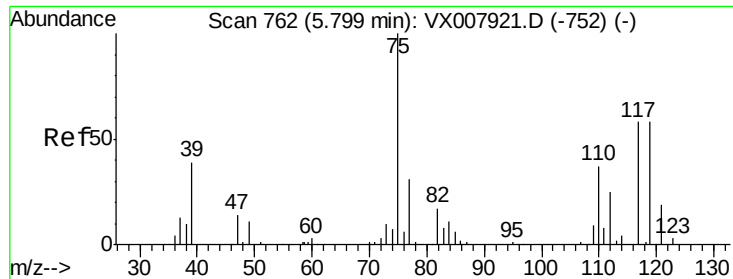
MMDadoda
 3/12/2019 1:09:54 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

Tgt Ion: 114 Resp: 289754
 Ion Ratio Lower Upper
 114 100
 63 19.4 14.2 21.4
 88 15.6 11.9 17.9





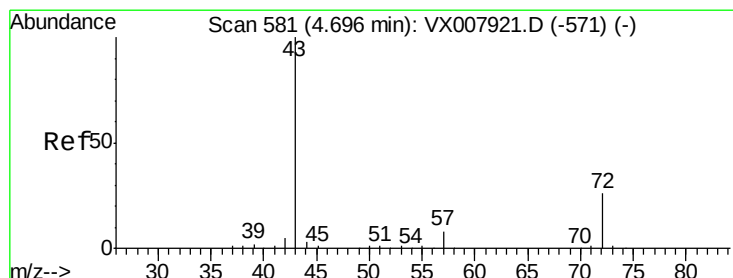
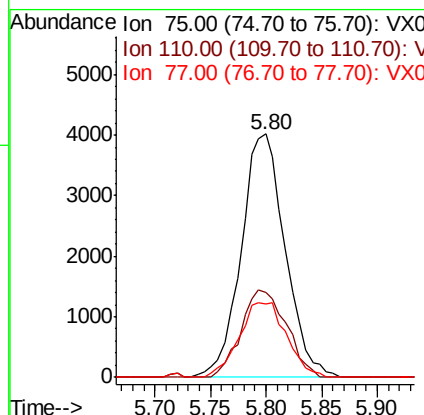
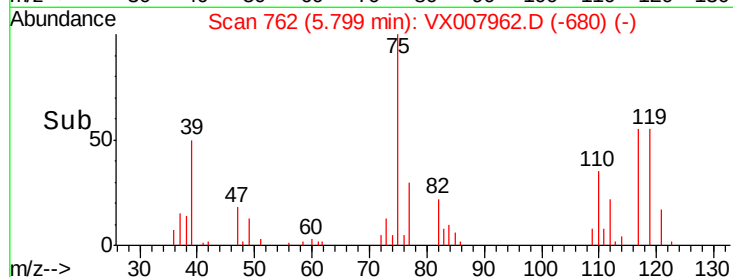
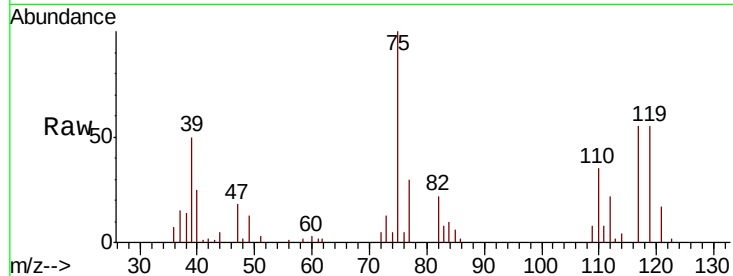
#29
 1,1-Dichloropropene
 Concen: 2.405 ug/l
 RT: 5.80 min Scan# 762
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

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

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	11047		
110	36.7	0.0	80.8	
77	19.8	0.0	62.4	

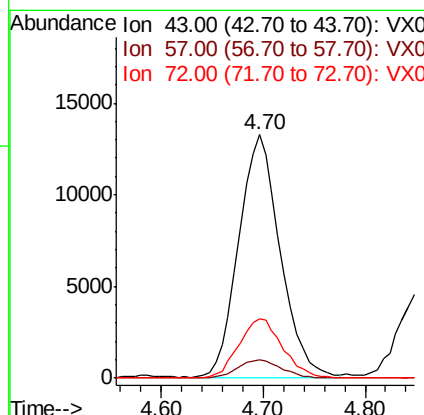
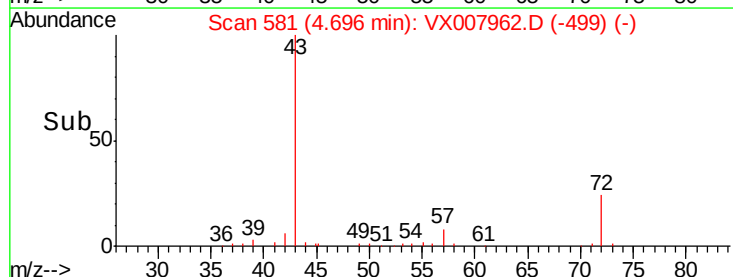
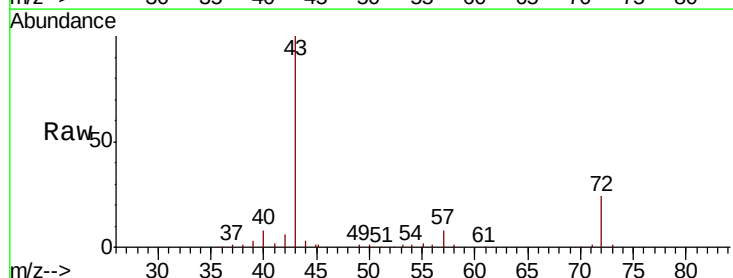
Manual Integrations
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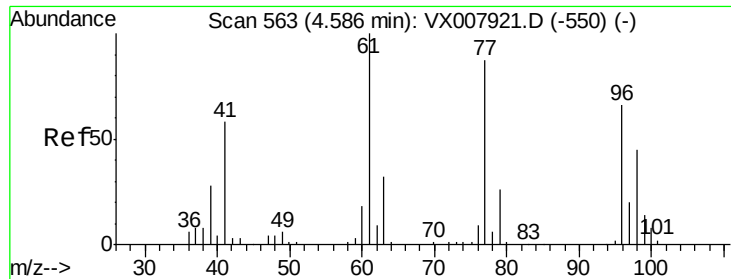
MMDadoda
 3/12/2019 1:09:54 PM



#30
 2-Butanone
 Concen: 12.163 ug/l
 RT: 4.70 min Scan# 581
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	37690		
57	7.7	7.0	10.6	
72	25.5	21.5	32.3	





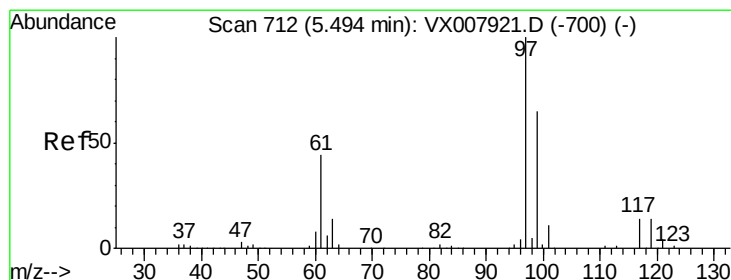
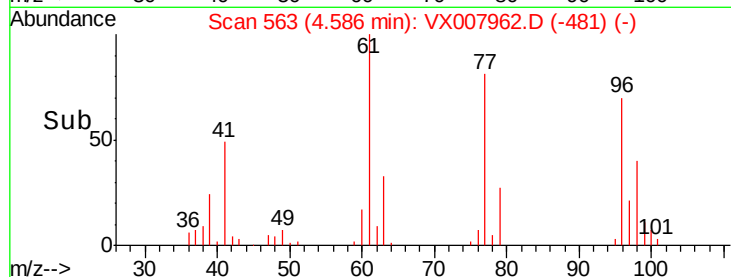
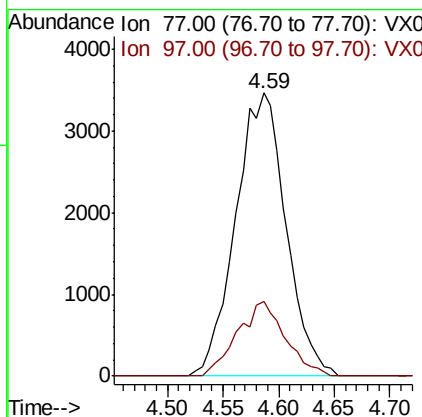
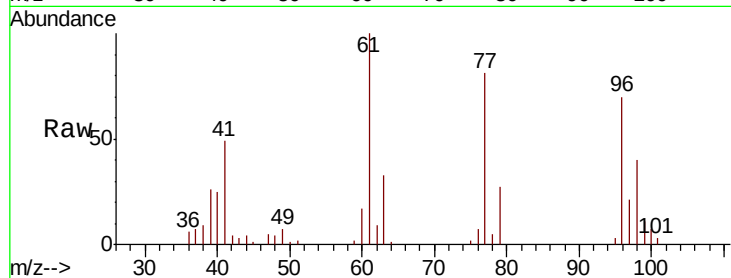
#31
 2,2-Dichloropropane
 Concen: 2.571 ug/l
 RT: 4.59 min Scan# 563
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

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

Tgt Ion: 77 Resp: 10908
 Ion Ratio Lower Upper
 77 100
 97 24.9 20.6 31.0

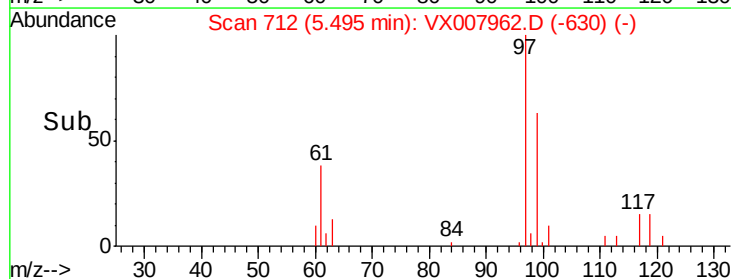
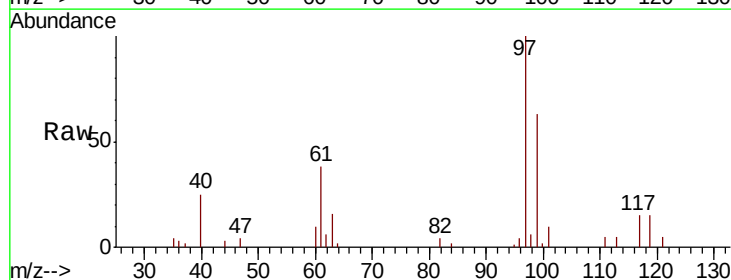
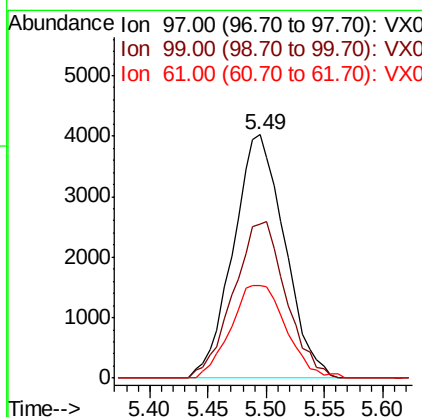
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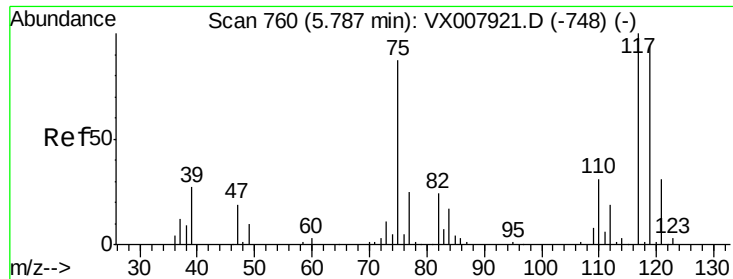
MMDadoda
 3/12/2019 1:09:54 PM



#32
 1,1,1-Trichloroethane
 Concen: 2.481 ug/l
 RT: 5.49 min Scan# 712
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

Tgt Ion: 97 Resp: 12324
 Ion Ratio Lower Upper
 97 100
 99 65.6 51.7 77.5
 61 0.4 32.8 49.2#





#33

Carbon Tetrachloride

Concen: 2.419 ug/l

RT: 5.77 min Scan# 758

Delta R.T. -0.01 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Instrument :

MSVOA_X

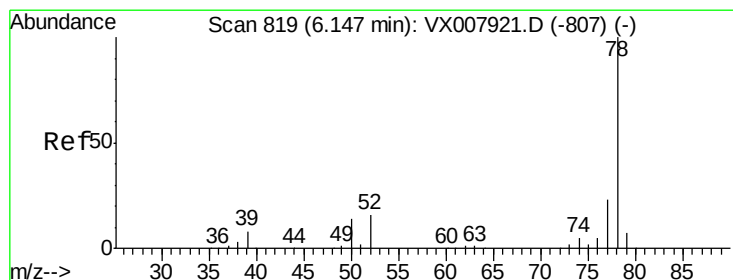
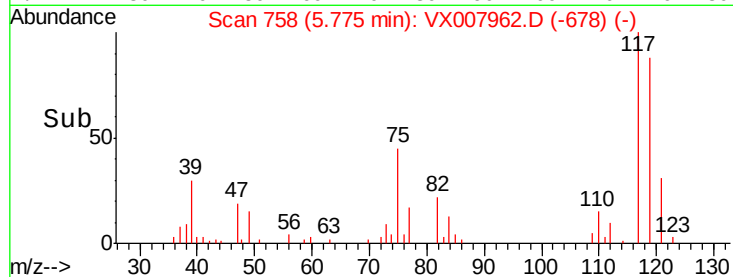
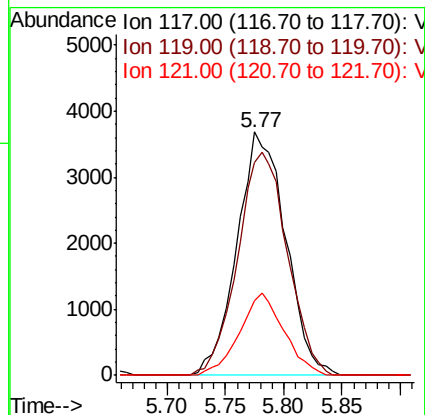
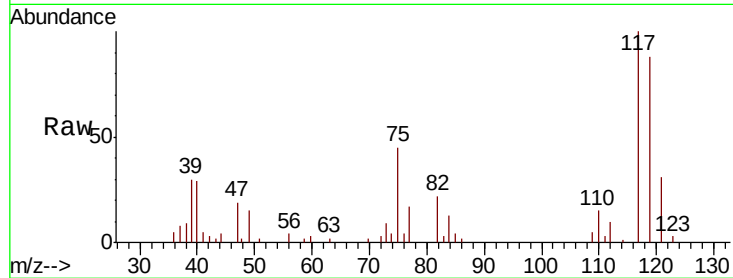
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tgt Ion	Ratio	Lower	Upper
117	100		
119	87.6	78.1	117.1
121	30.8	27.0	40.6

Manual Integrations
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3/12/2019 1:09:54 PM



#34

Benzene

Concen: 2.437 ug/l

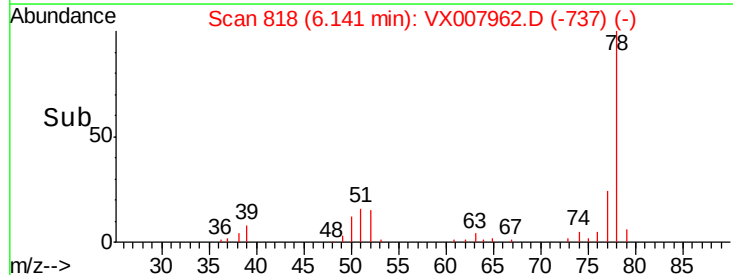
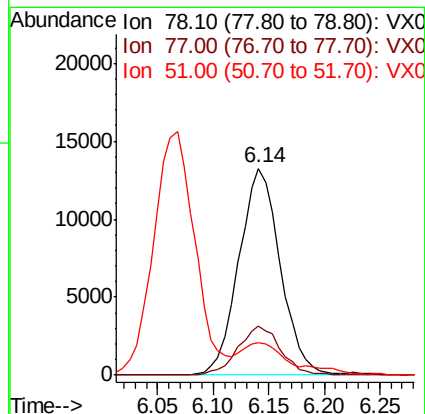
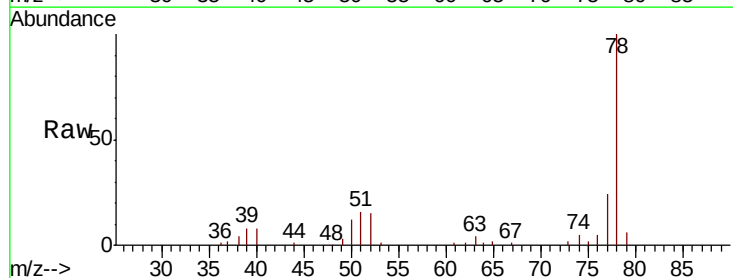
RT: 6.14 min Scan# 818

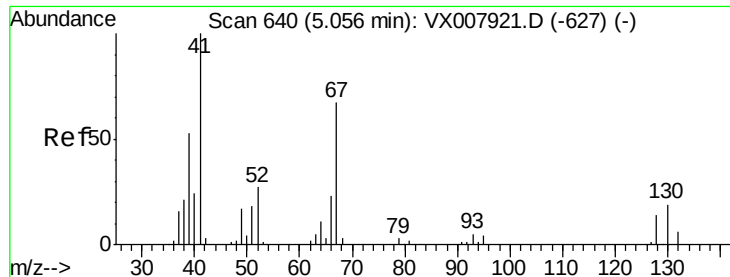
Delta R.T. -0.01 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.5	19.1	28.7
51	13.7	10.8	16.2





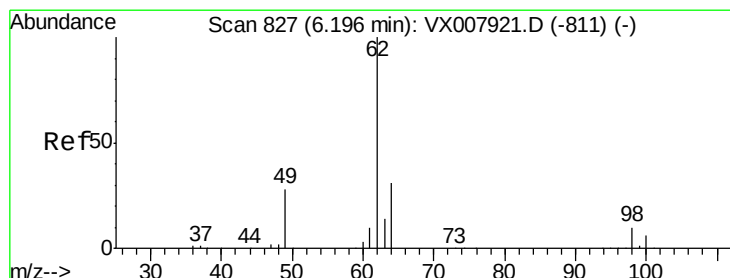
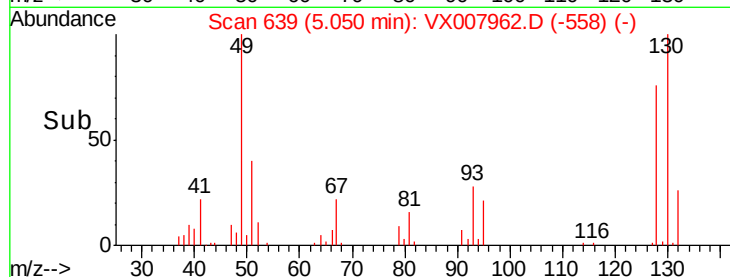
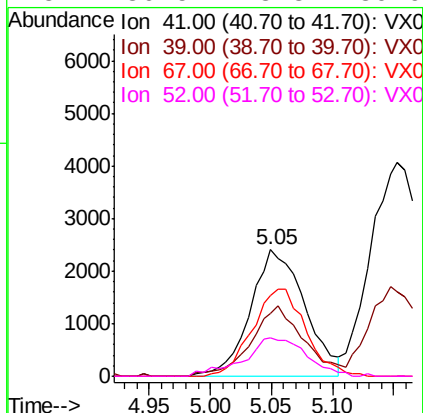
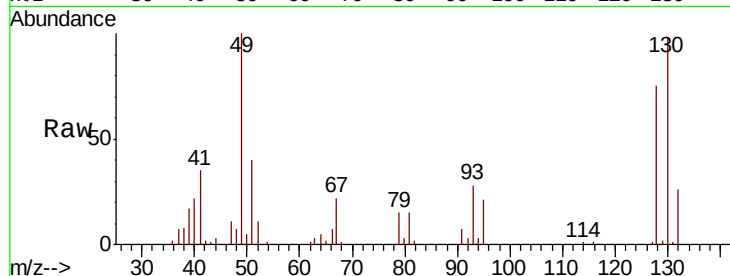
#35
Methacrylonitrile
Concen: 2.468 ug/l
RT: 5.05 min Scan# 639
Delta R.T. -0.01 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

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

Tgt Ion:	41	Resp:	7453
Ion	Ratio	Lower	Upper
41	100		
39	50.0	27.4	82.0
67	63.9	37.9	113.6
52	30.5	13.3	39.9

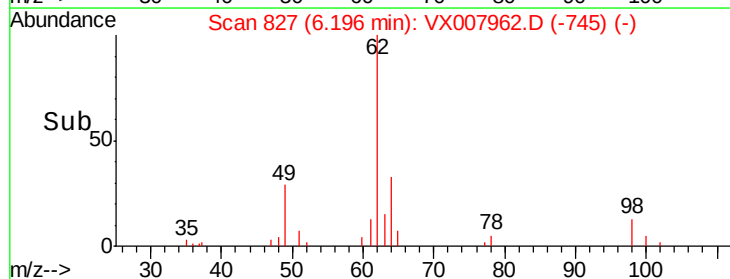
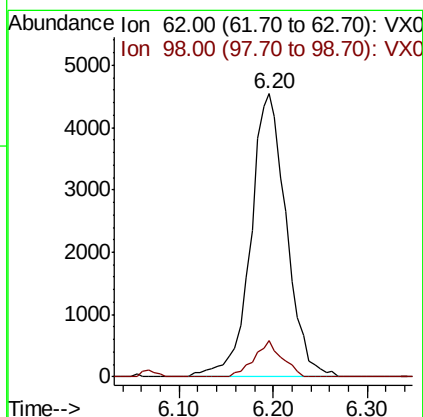
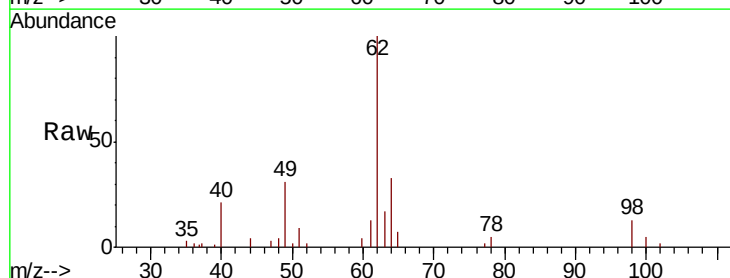
Manual Integrations
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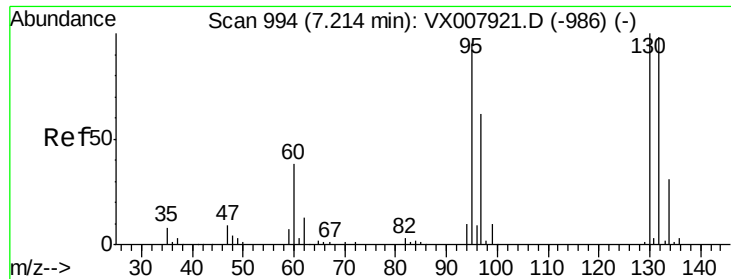
MMDadoda
3/12/2019 1:09:54 PM



#36
1,2-Dichloroethane
Concen: 2.628 ug/l
RT: 6.20 min Scan# 827
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

Tgt Ion:	62	Resp:	12036
Ion	Ratio	Lower	Upper
62	100		
98	10.1	7.8	11.8





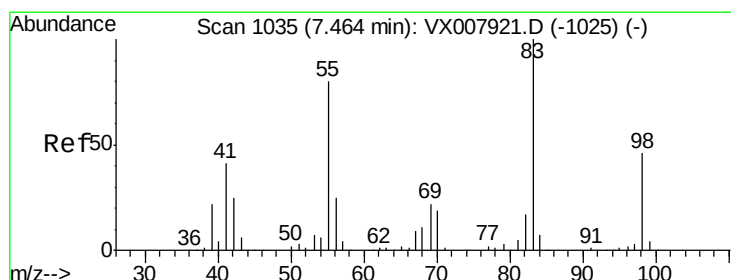
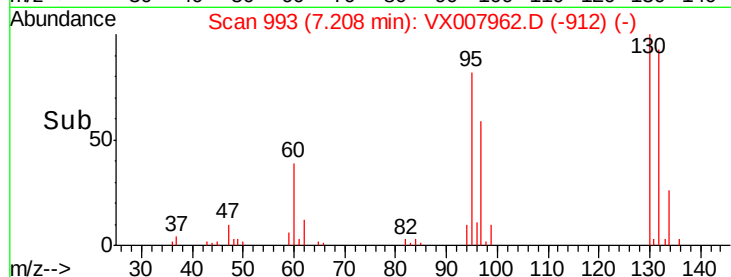
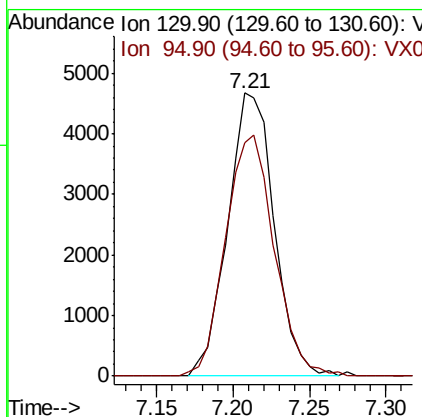
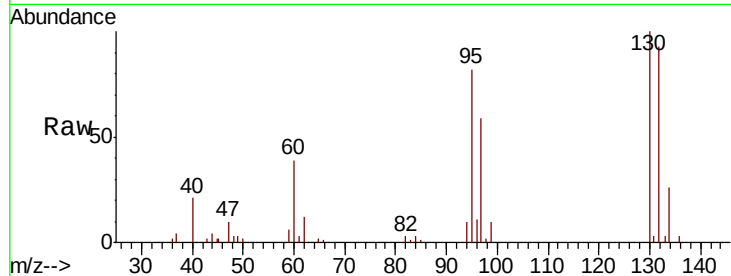
#37
 Trichloroethene
 Concen: 2.579 ug/l
 RT: 7.21 min Scan# 993
 Delta R.T. -0.01 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

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

Tgt Ion: 130 Resp: 9837
 Ion Ratio Lower Upper
 130 100
 95 81.1 71.3 106.9

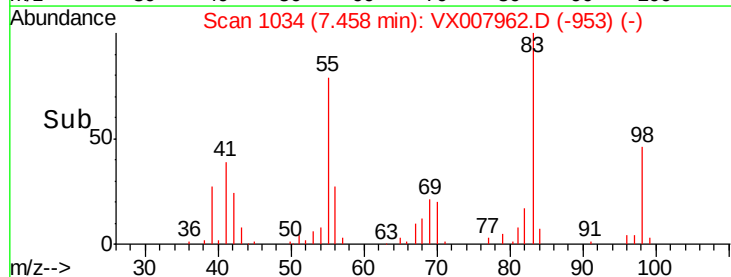
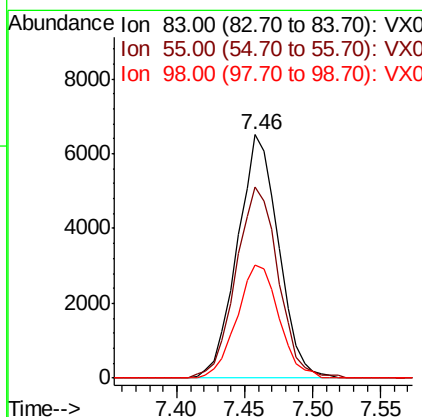
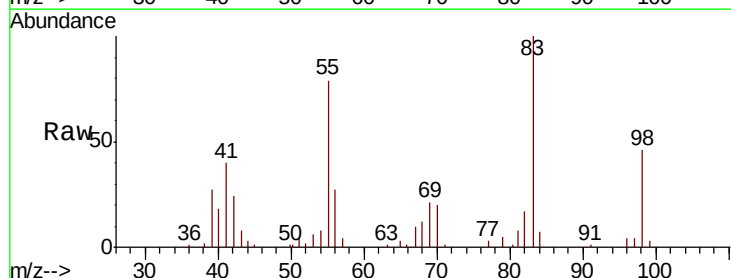
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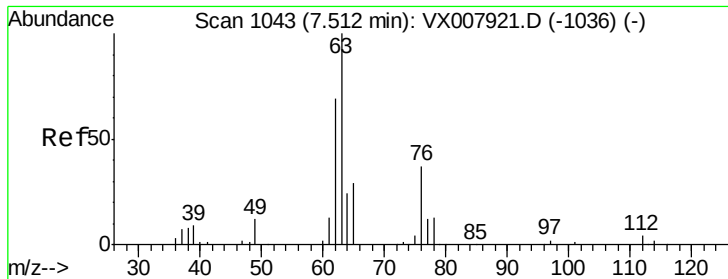
MMDadoda
 3/12/2019 1:09:54 PM



#38
 Methylcyclohexane
 Concen: 2.356 ug/l
 RT: 7.46 min Scan# 1034
 Delta R.T. -0.01 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

Tgt Ion: 83 Resp: 13762
 Ion Ratio Lower Upper
 83 100
 55 80.4 36.0 108.0
 98 47.5 23.8 71.4





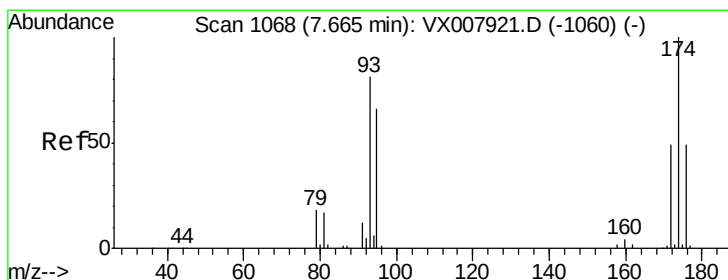
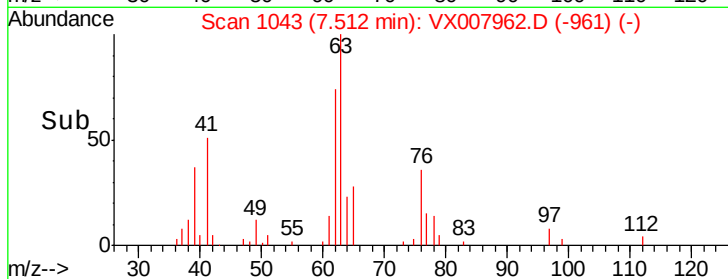
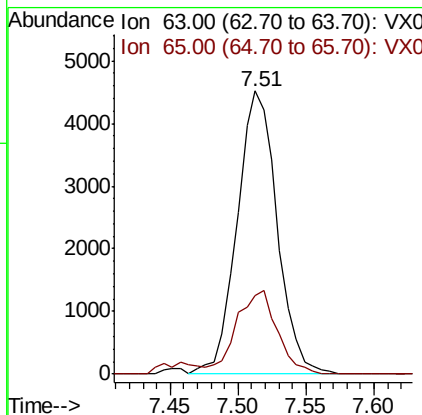
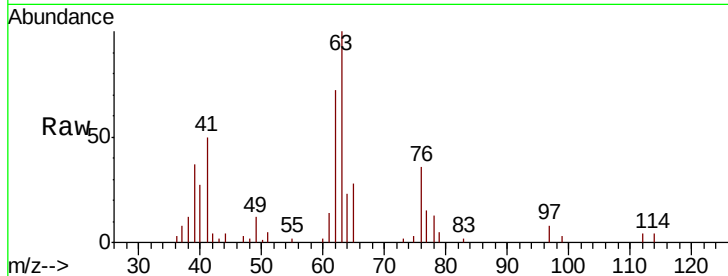
#39
 1,2-Dichloropropane
 Concen: 2.529 ug/l
 RT: 7.51 min Scan# 1043
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

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

Tgt Ion: 63 Resp: 9286
 Ion Ratio Lower Upper
 63 100
 65 27.8 24.6 37.0

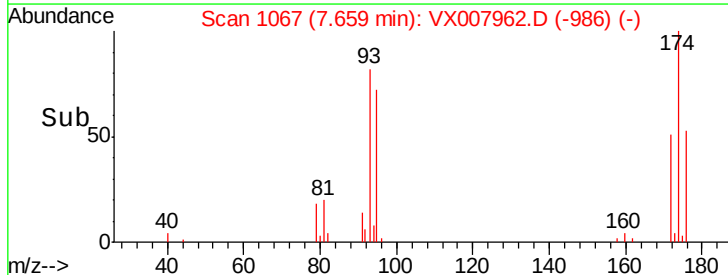
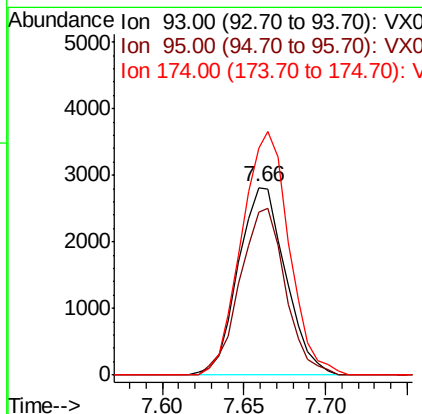
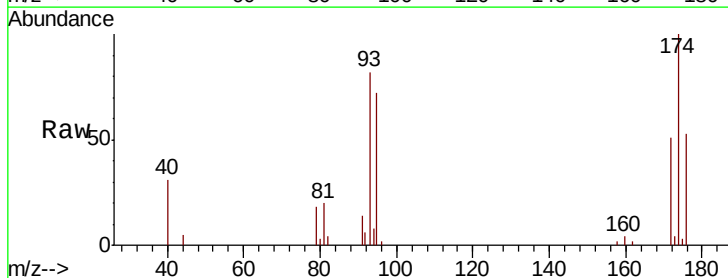
Manual Integrations
 APPROVED

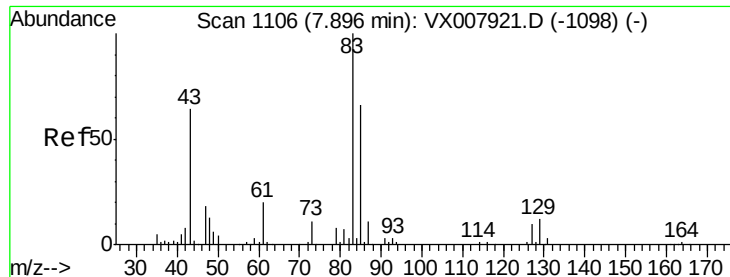
MMDadoda
 3/12/2019 1:09:54 PM



#40
 Dibromomethane
 Concen: 2.449 ug/l
 RT: 7.66 min Scan# 1067
 Delta R.T. -0.01 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

Tgt Ion: 93 Resp: 5704
 Ion Ratio Lower Upper
 93 100
 95 85.2 0.0 158.8
 174 129.7 0.0 224.2





#41

Bromodichloromethane

Concen: 2.405 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Instrument :

MSVOA_X

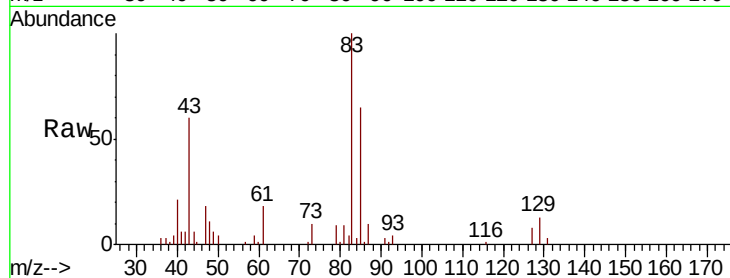
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

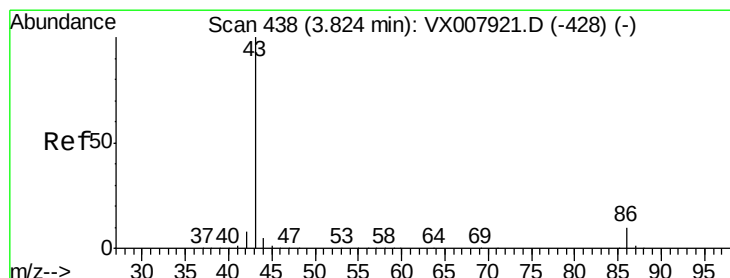
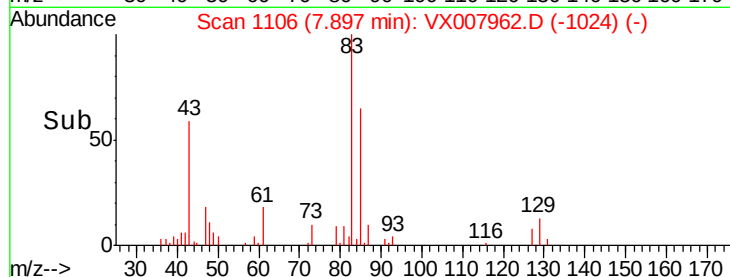
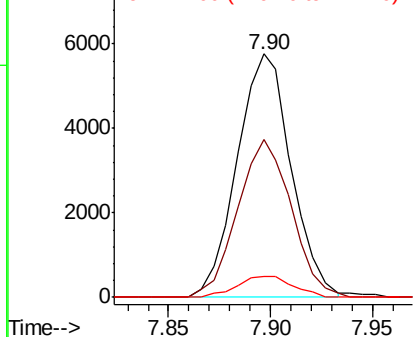
Tgt Ion:	83	Resp:	10589
Ion Ratio	Lower	Upper	
83	100		
85	64.9	51.1	76.7
127	8.4	7.2	10.8

Manual Integrations
APPROVED

MMDadoda
3/12/2019 1:09:54 PM



Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 85.00 (84.70 to 85.70): VX0
Ion 127.00 (126.70 to 127.70): V



#42

Vinyl Acetate

Concen: 11.694 ug/l

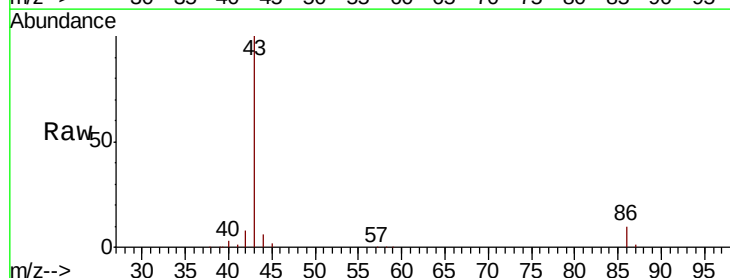
RT: 3.82 min Scan# 438

Delta R.T. 0.00 min

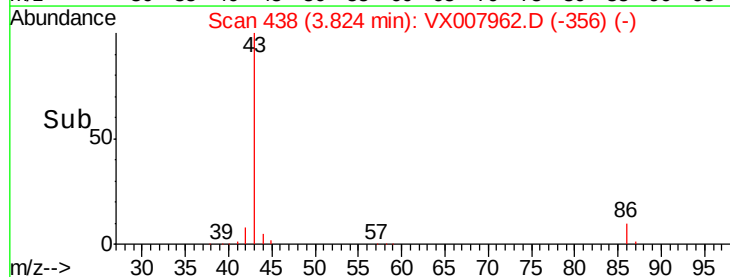
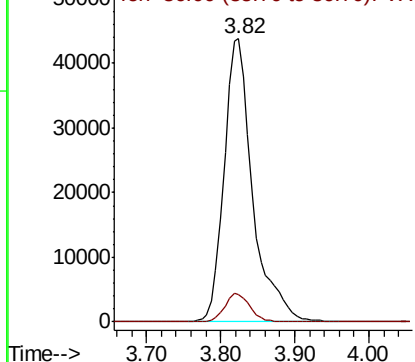
Lab File: VX007962.D

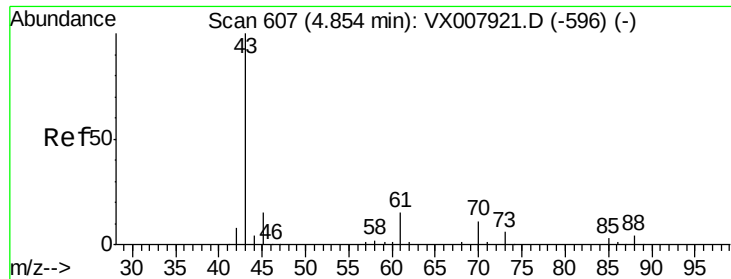
Acq: 11 Mar 2019 11:05

Tgt Ion:	43	Resp:	117292
Ion Ratio	Lower	Upper	
43	100		
86	8.9	8.2	12.2



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 86.00 (85.70 to 86.70): VX0





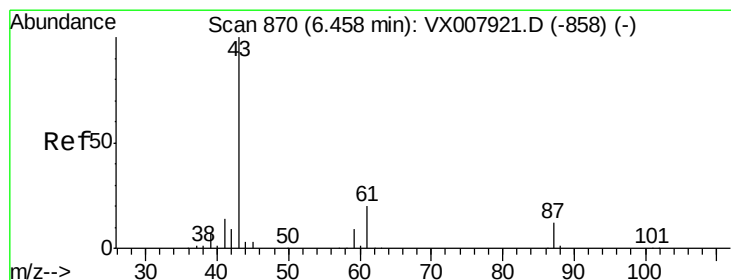
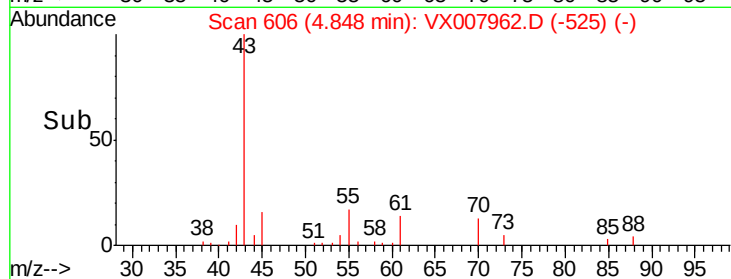
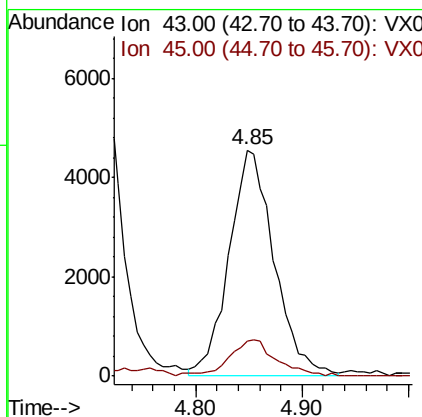
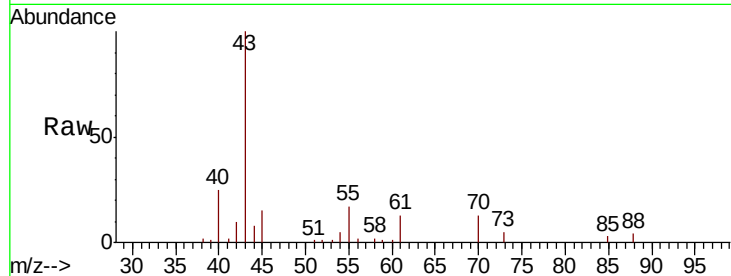
#43
Ethyl Acetate
Concen: 2.508 ug/l
RT: 4.85 min Scan# 606
Delta R.T. -0.01 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

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

Tgt Ion: 43 Resp: 13539
Ion Ratio Lower Upper
43 100
45 16.0 6.9 10.3#

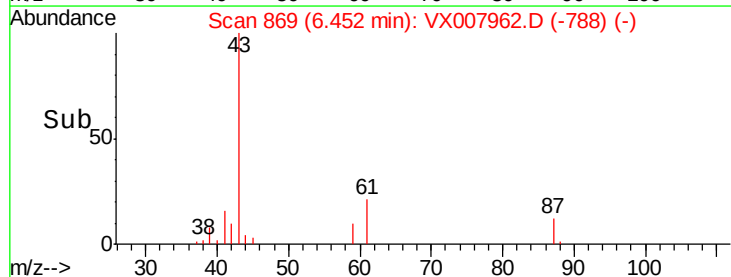
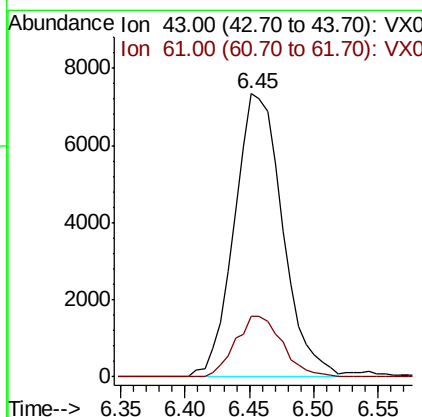
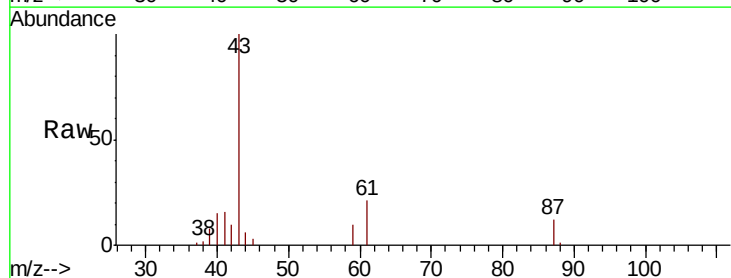
Manual Integrations
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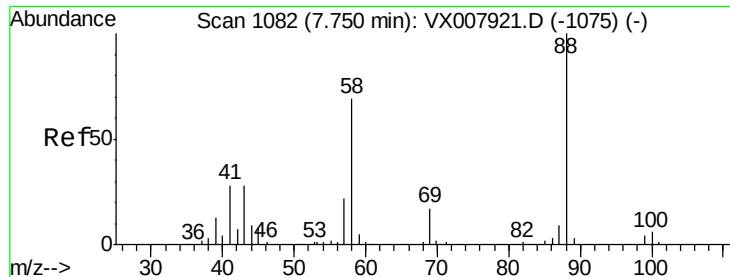
MMDadoda
3/12/2019 1:09:54 PM



#44
Isopropyl Acetate
Concen: 2.314 ug/l
RT: 6.45 min Scan# 869
Delta R.T. -0.01 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

Tgt Ion: 43 Resp: 19057
Ion Ratio Lower Upper
43 100
61 20.9 16.1 24.1





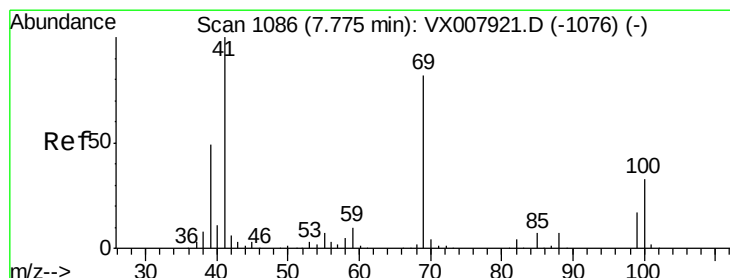
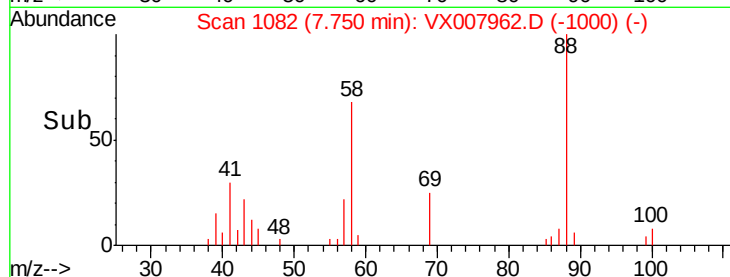
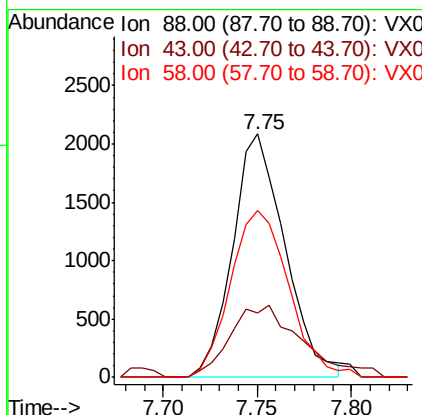
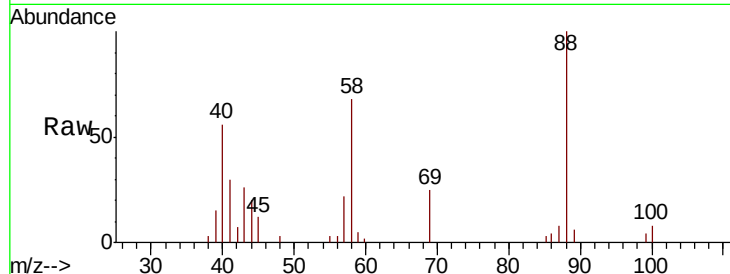
#45
1,4-Dioxane
Concen: 46.645 ug/l
RT: 7.75 min Scan# 1082
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

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

Tgt Ion	Ratio	Lower	Upper
88	100		
43	39.7	23.6	35.4#
58	75.8	51.6	77.4

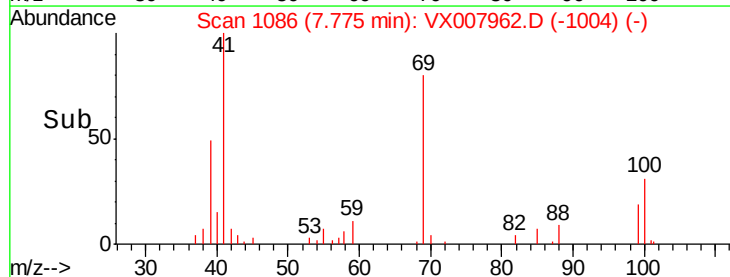
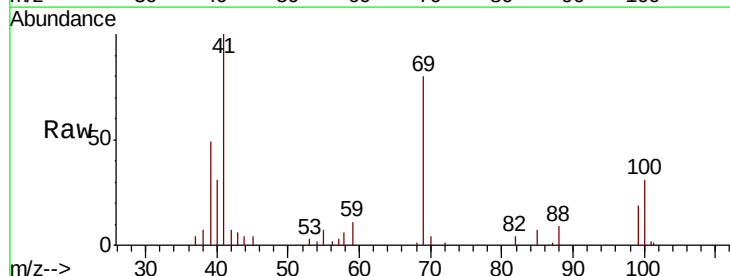
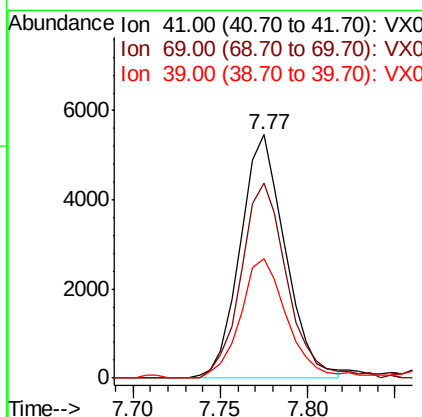
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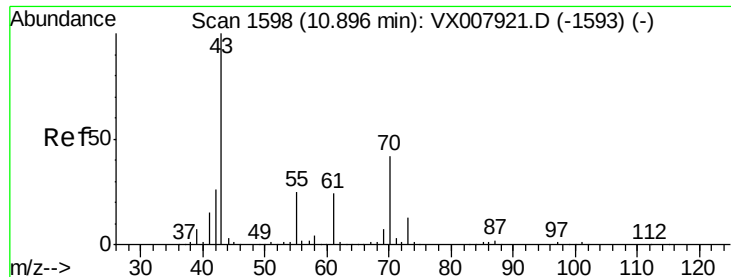
MMDadoda
3/12/2019 1:09:54 PM



#46
Methyl methacrylate
Concen: 2.257 ug/l
RT: 7.77 min Scan# 1086
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

Tgt Ion	Ratio	Lower	Upper
41	100		
69	80.3	44.2	132.6
39	48.9	29.9	89.8





#47

n-amy1 Acetate

Concen: 2.122 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tgt Ion: 43 Resp: 15054

Ion Ratio Lower Upper

43 100

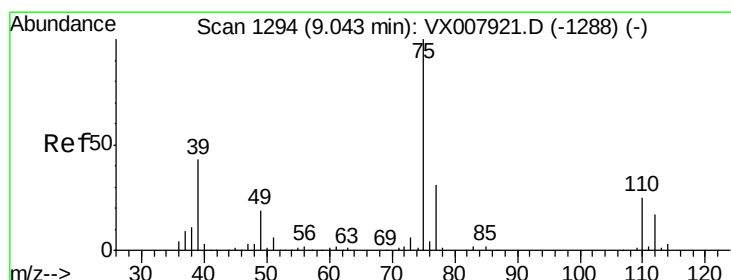
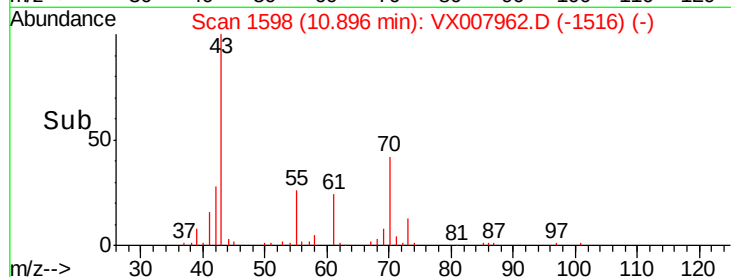
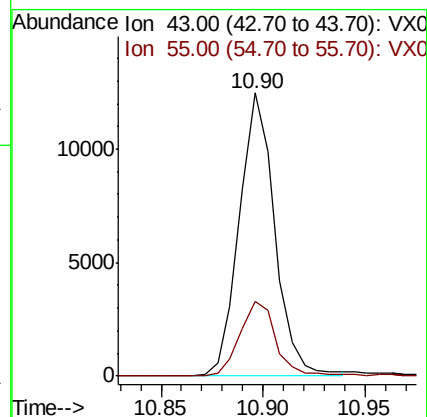
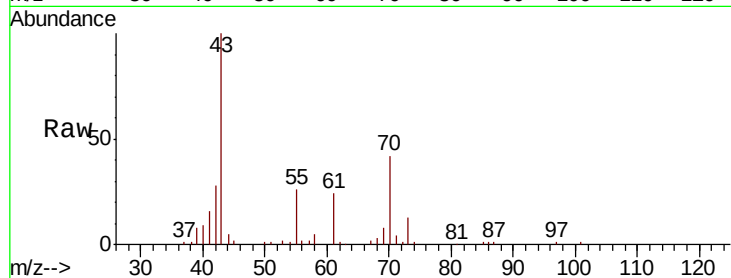
55 26.6 20.8 31.2

Manual Integrations

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#48

t-1,3-Dichloropropene

Concen: 2.167 ug/l

RT: 9.04 min Scan# 1294

Delta R.T. 0.00 min

Lab File: VX007962.D

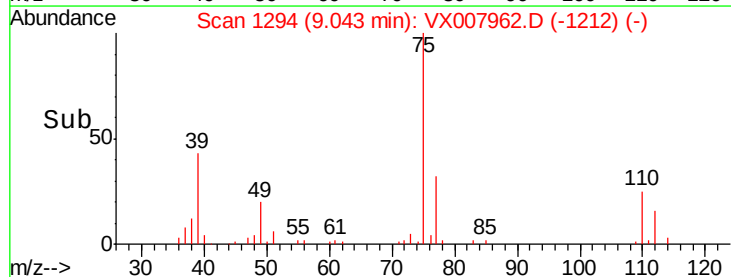
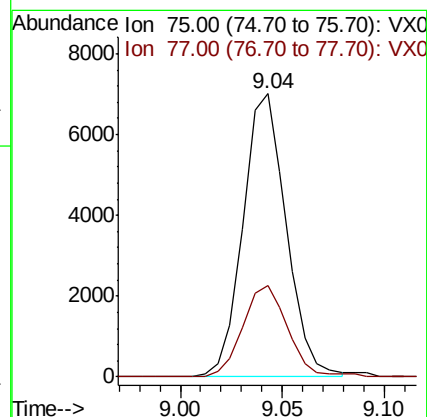
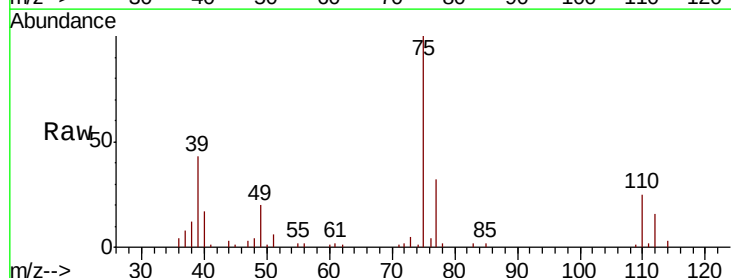
Acq: 11 Mar 2019 11:05

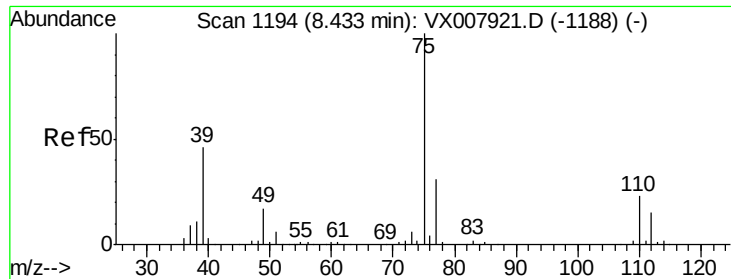
Tgt Ion: 75 Resp: 10331

Ion Ratio Lower Upper

75 100

77 32.1 24.5 36.7





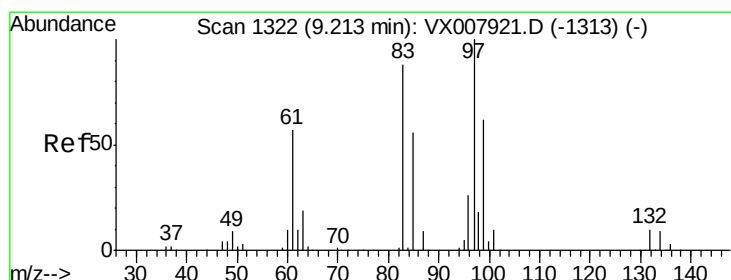
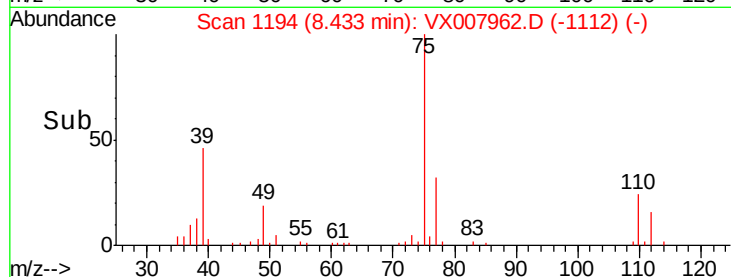
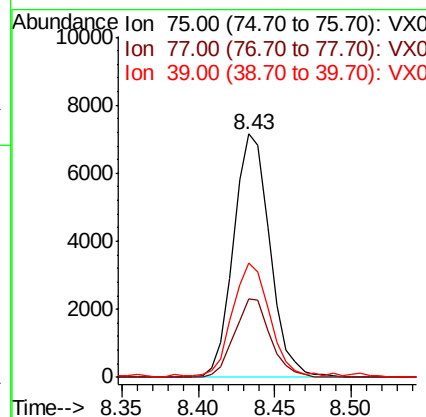
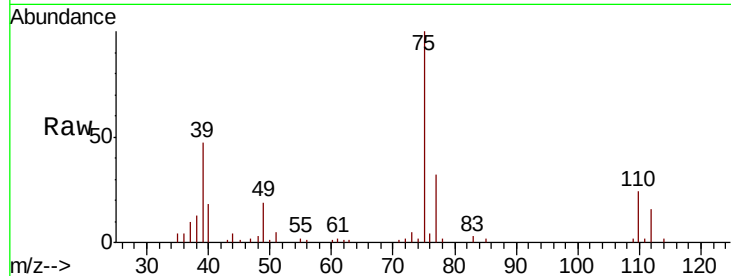
#49
 cis-1,3-Dichloropropene
 Concen: 2.184 ug/l
 RT: 8.43 min Scan# 1194
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

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

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	11792		
77	32.4	25.0	37.4	
39	45.9	38.5	57.7	

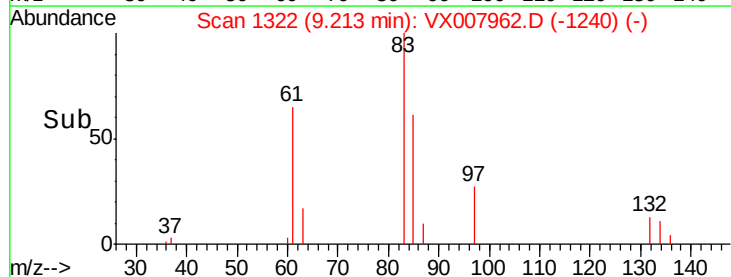
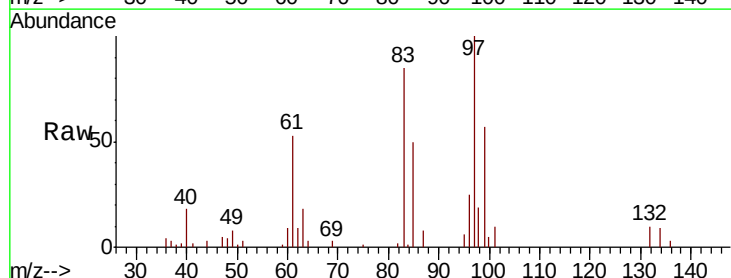
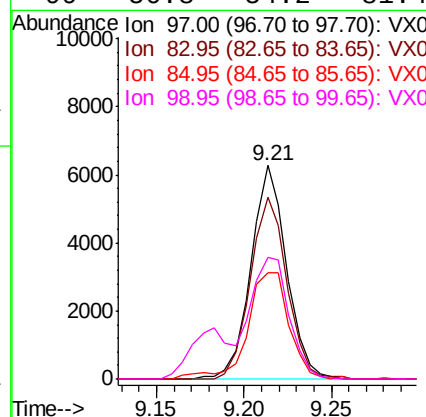
Manual Integrations
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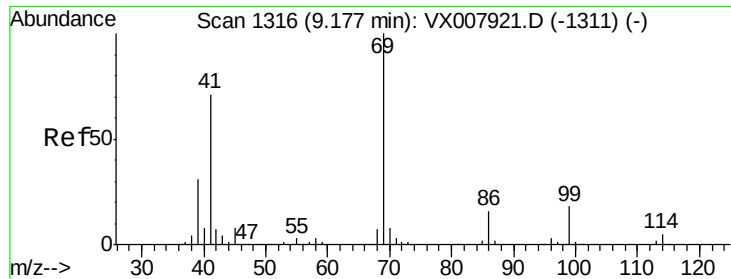
MMDadoda
 3/12/2019 1:09:54 PM



#50
 1,1,2-Trichloroethane
 Concen: 2.495 ug/l
 RT: 9.21 min Scan# 1322
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

Tgt Ion	Ratio	Resp	Lower	Upper
97	100	8858		
83	85.2	72.0	108.0	
85	48.7	45.0	67.6	
99	56.8	54.2	81.4	





#51

Ethyl methacrylate

Concen: 2.244 ug/l

RT: 9.18 min Scan# 1316

Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Instrument :

MSVOA_X

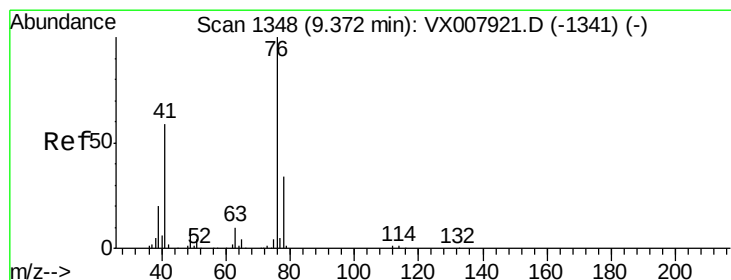
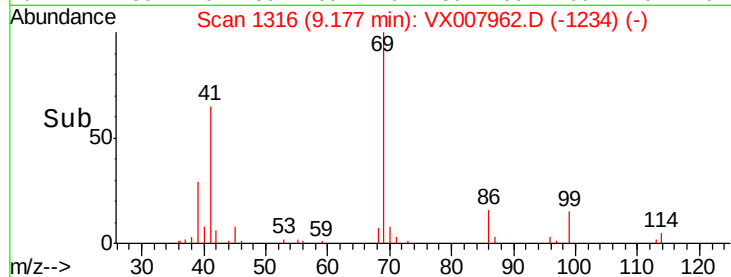
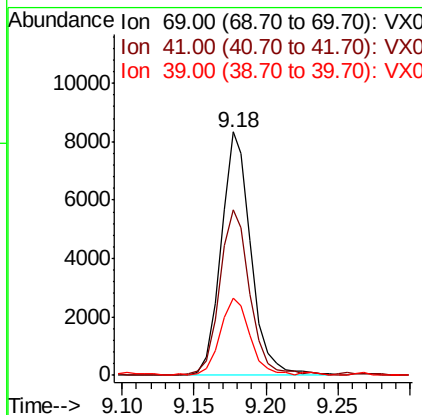
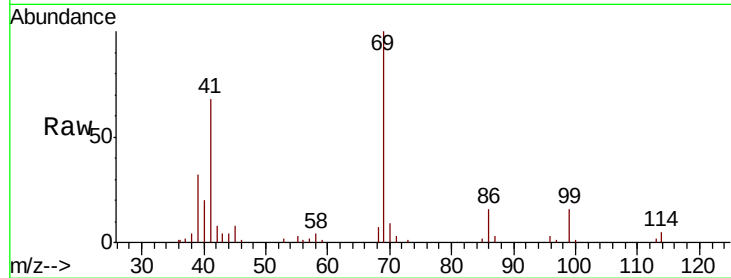
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tgt Ion:	69	Resp:	12079
Ion Ratio	Lower	Upper	
69	100		
41	67.2	32.1	96.5
39	31.9	18.8	56.3

Manual Integrations
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3/12/2019 1:09:54 PM



#52

1,3-Dichloropropane

Concen: 2.479 ug/l

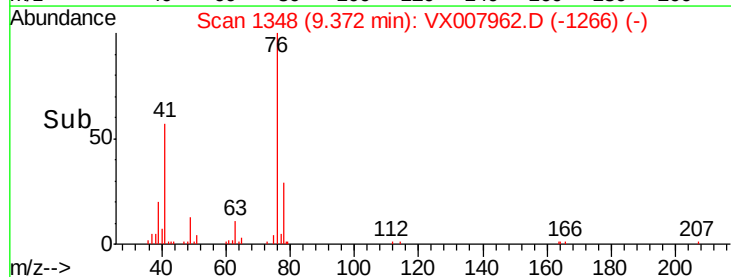
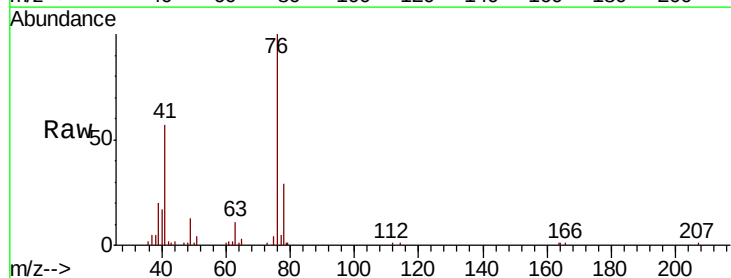
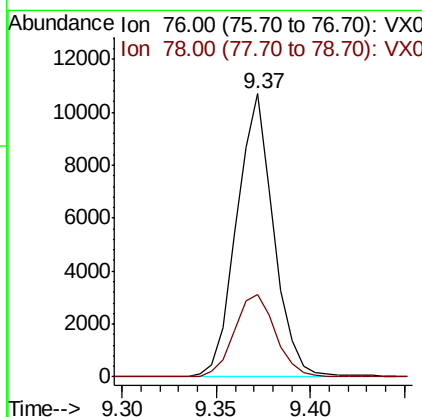
RT: 9.37 min Scan# 1348

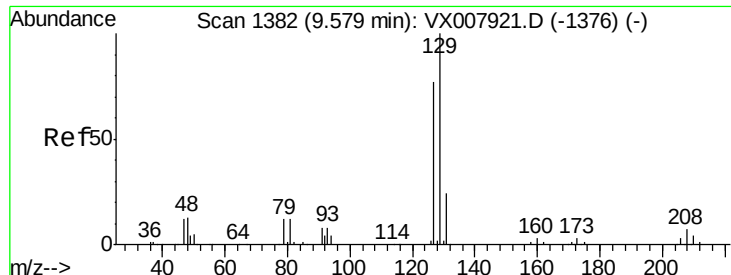
Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Tgt Ion:	76	Resp:	14539
Ion Ratio	Lower	Upper	
76	100		
78	32.1	0.0	65.2





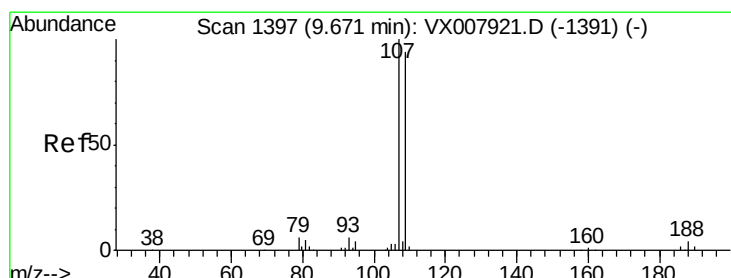
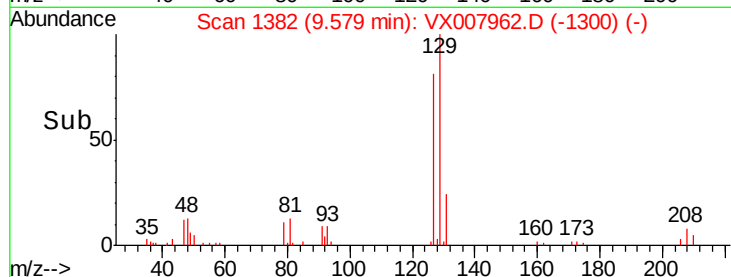
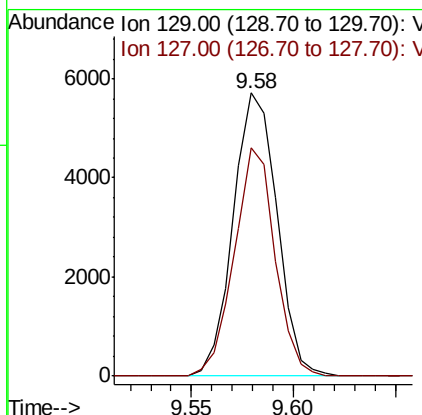
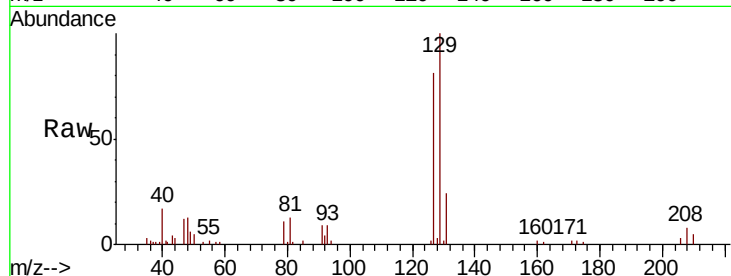
#53
 Dibromochloromethane
 Concen: 2.332 ug/l
 RT: 9.58 min Scan# 1382
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

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

Tgt Ion:129 Resp: 8515
 Ion Ratio Lower Upper
 129 100
 127 75.1 38.4 115.2

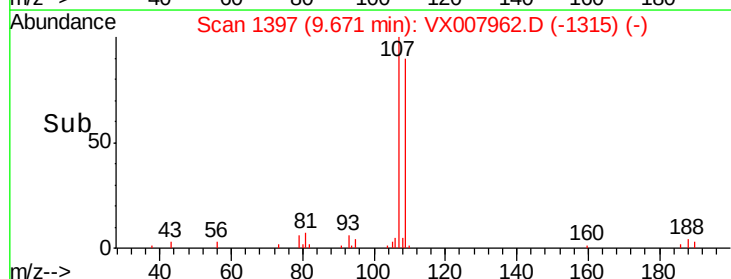
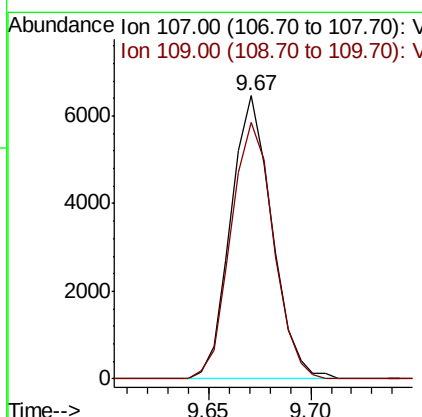
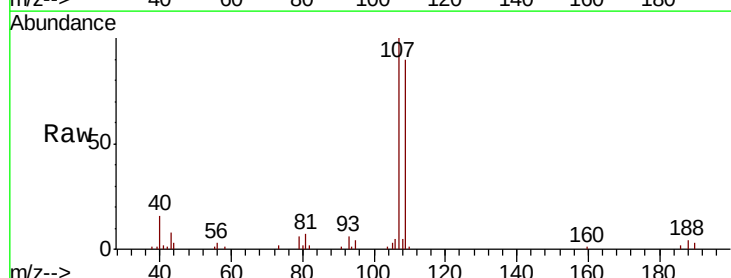
Manual Integrations
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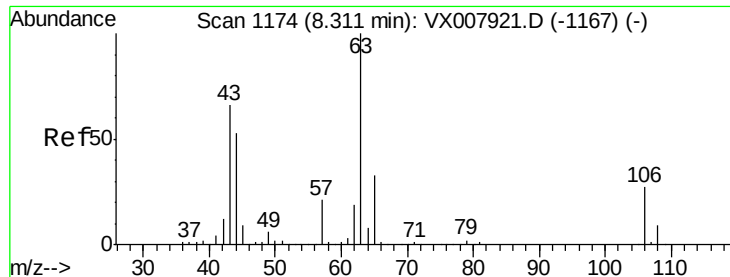
MMDadoda
 3/12/2019 1:09:54 PM



#54
 1,2-Dibromoethane
 Concen: 2.445 ug/l
 RT: 9.67 min Scan# 1397
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

Tgt Ion:107 Resp: 9076
 Ion Ratio Lower Upper
 107 100
 109 93.6 76.6 115.0





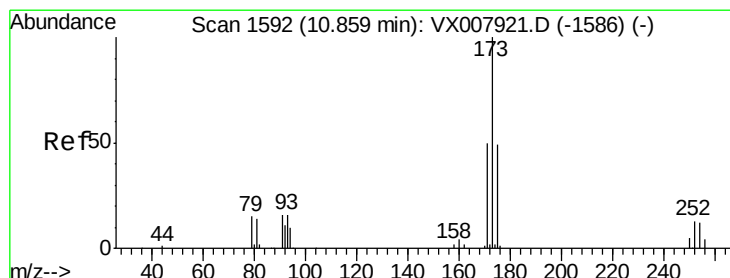
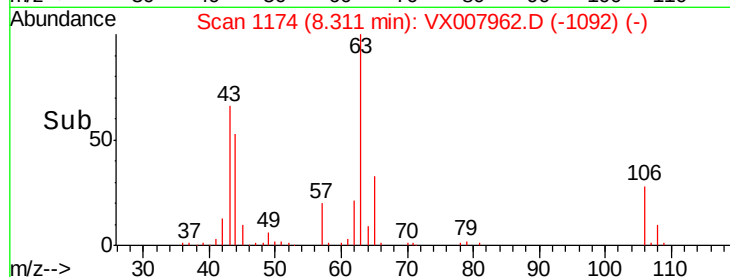
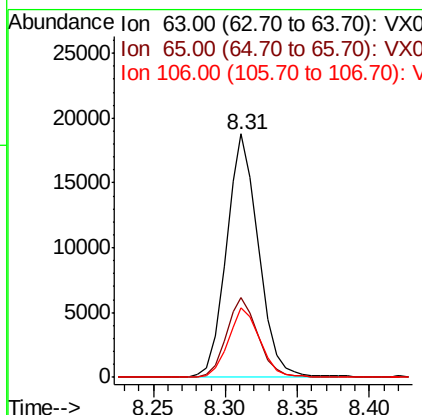
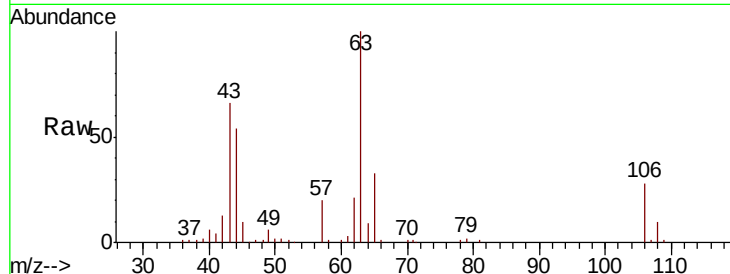
#55
 2-Chloroethyl vinyl ether
 Concen: 11.683 ug/l
 RT: 8.31 min Scan# 1174
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

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

Tgt Ion	Ratio	Lower	Upper
63	100		
65	32.2	25.7	38.5
106	27.8	23.7	35.5

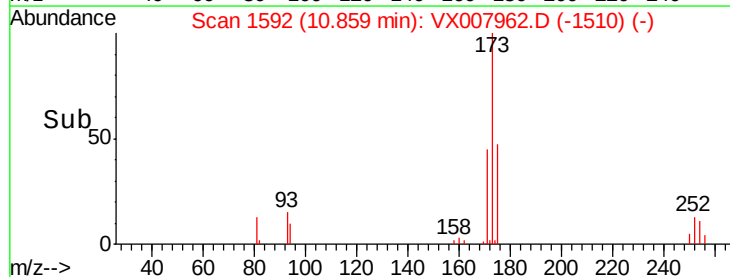
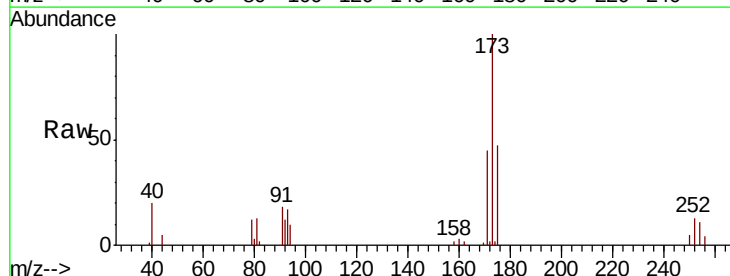
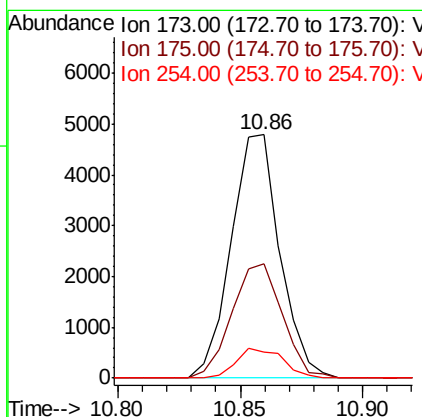
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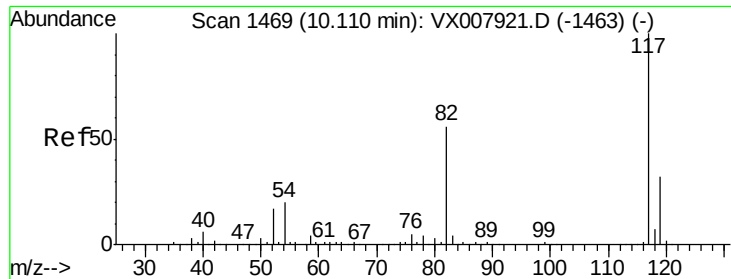
MMDadoda
 3/12/2019 1:09:54 PM



#56
 Bromoform
 Concen: 2.276 ug/l
 RT: 10.86 min Scan# 1592
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.5	38.5	57.7
254	11.6	7.4	11.2





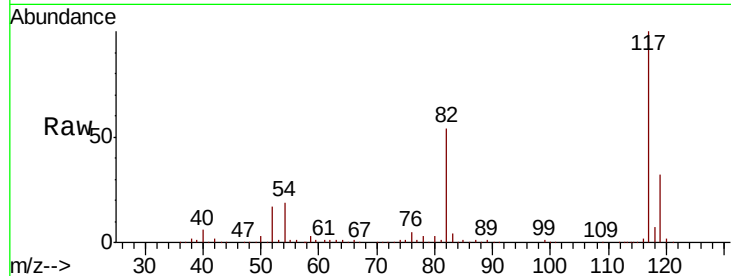
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

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

Tgt Ion	Ratio	Lower	Upper
117	100		
82	53.5	40.4	60.6
119	31.8	25.8	38.6

Manual Integrations
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MMDadoda
3/12/2019 1:09:54 PM

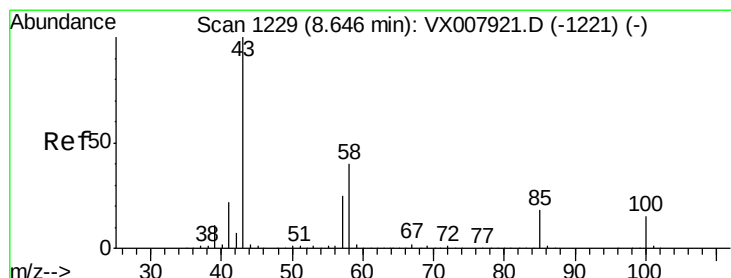
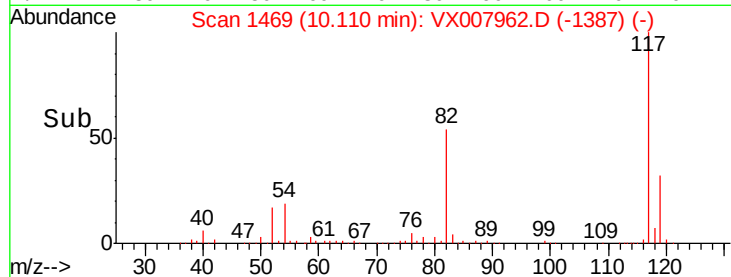
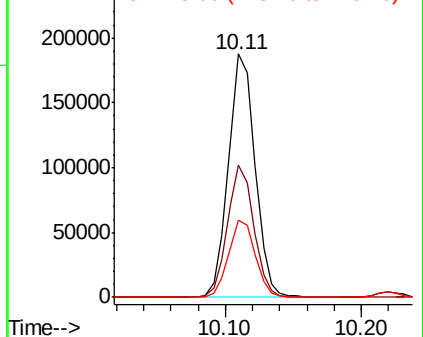


Abundance

Ion 117.00 (116.70 to 117.70): V

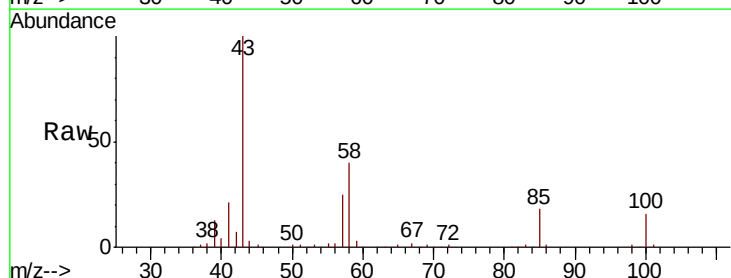
Ion 82.00 (81.70 to 82.70): VX0

Ion 119.00 (118.70 to 119.70): V



#58
4-Methyl-2-Pentanone
Concen: 11.468 ug/l
RT: 8.65 min Scan# 1229
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.4	31.4	47.0
85	17.9	15.0	22.6

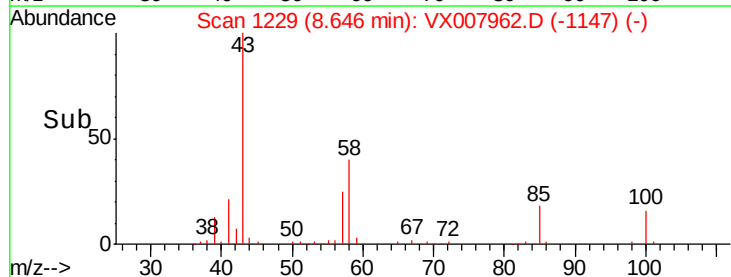
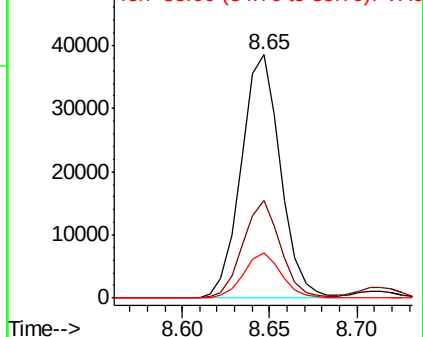


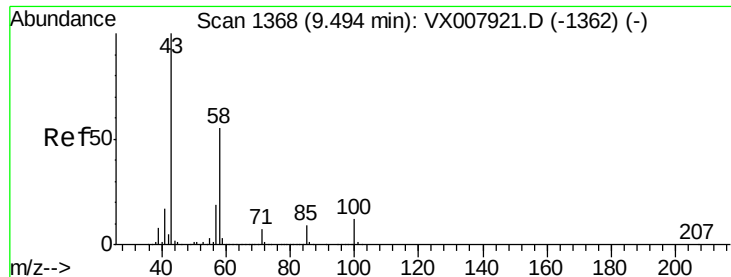
Abundance

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

Ion 85.00 (84.70 to 85.70): VX0





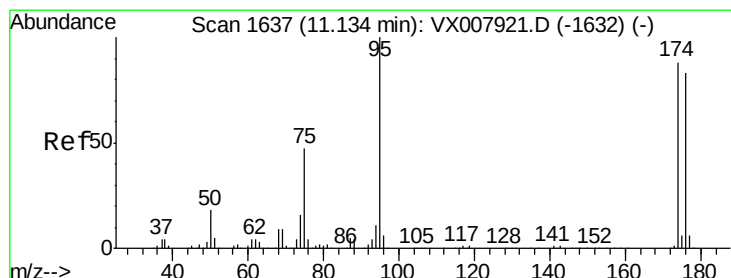
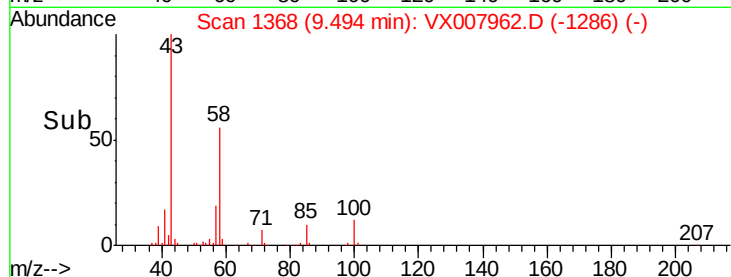
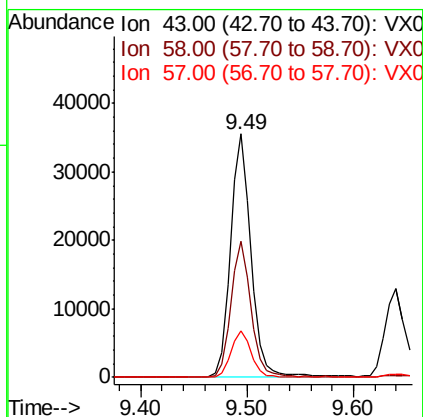
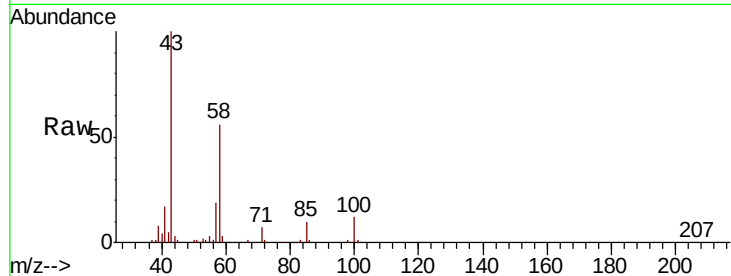
#59
2-Hexanone
Concen: 11.577 ug/l
RT: 9.49 min Scan# 1368
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

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

Tgt Ion	Ratio	Lower	Upper
43	100		
58	54.3	43.9	65.9
57	18.7	14.9	22.3

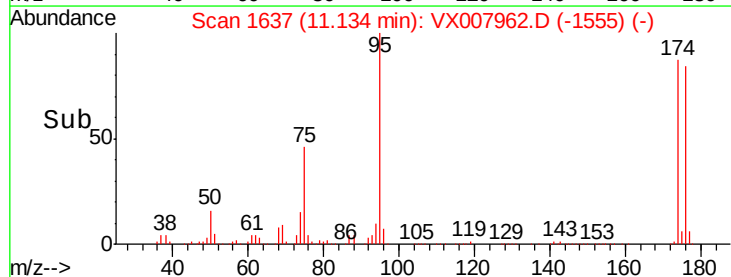
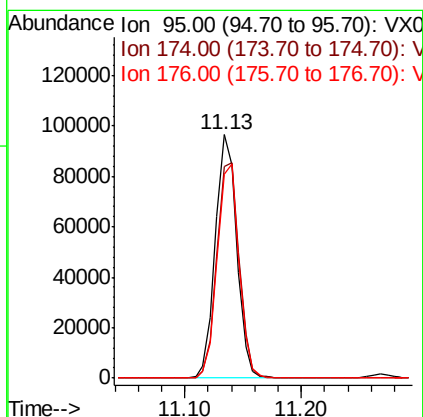
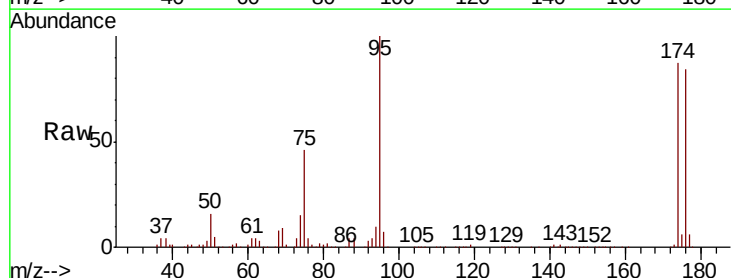
Manual Integrations
APPROVED

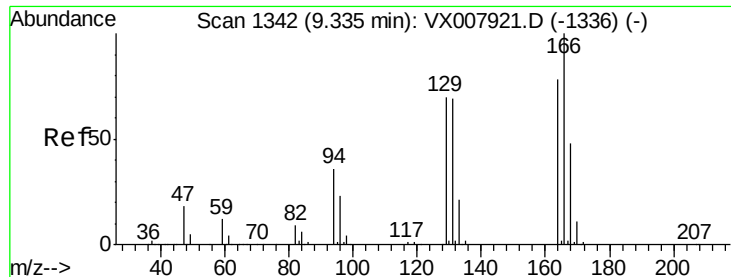
MMDadoda
3/12/2019 1:09:54 PM



#60
4-Bromofluorobenzene
Concen: 29.890 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

Tgt Ion	Ratio	Lower	Upper
95	100		
174	92.1	74.9	112.3
176	89.5	70.7	106.1





#61

Tetrachloroethene

Concen: 2.761 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Instrument :

MSVOA_X

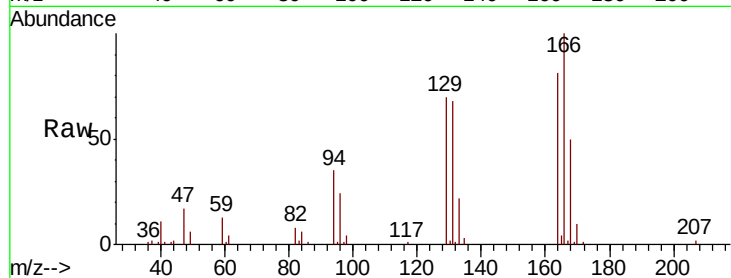
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

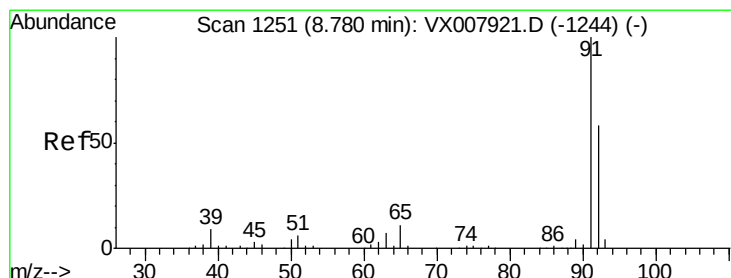
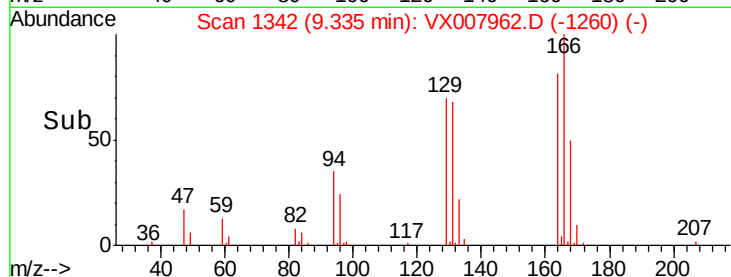
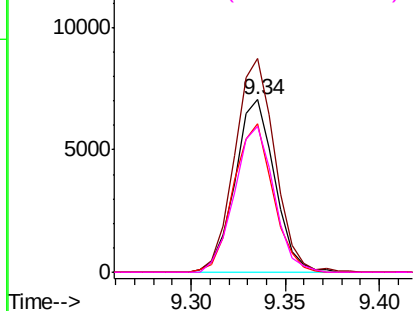
Tgt Ion:	164	Resp:	10328
Ion	Ratio	Lower	Upper
164	100		
166	123.7	103.9	155.9
129	86.1	74.7	112.1
131	84.5	71.7	107.5

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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: 2.522 ug/l

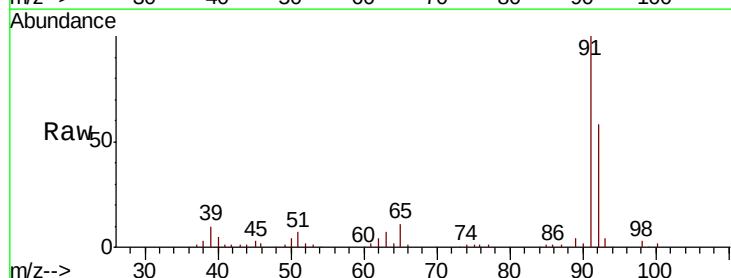
RT: 8.78 min Scan# 1251

Delta R.T. 0.00 min

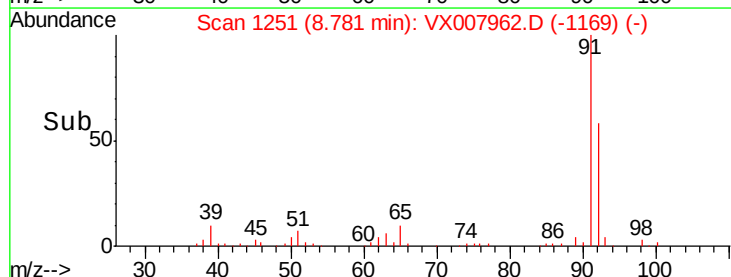
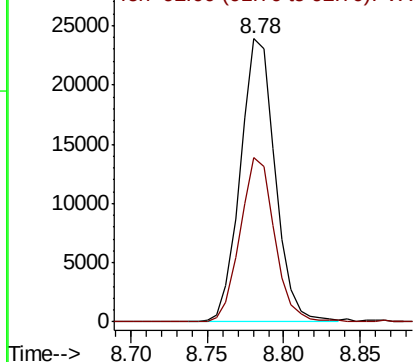
Lab File: VX007962.D

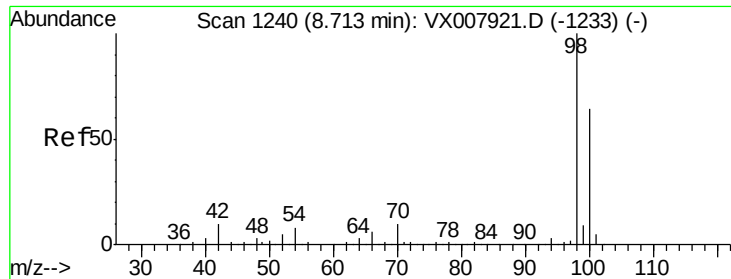
Acq: 11 Mar 2019 11:05

Tgt Ion:	91	Resp:	37762
Ion	Ratio	Lower	Upper
91	100		
92	57.4	46.4	69.6



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 92.00 (91.70 to 92.70): VX0





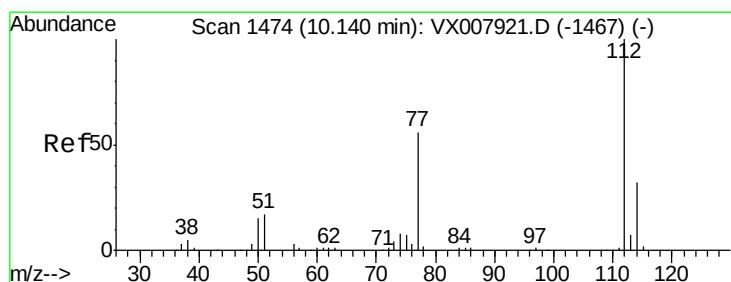
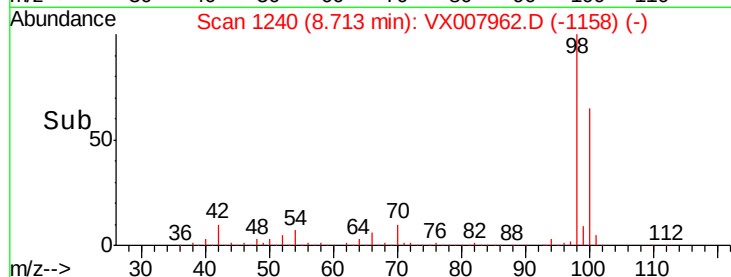
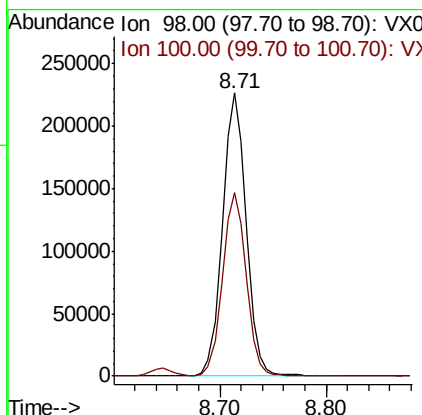
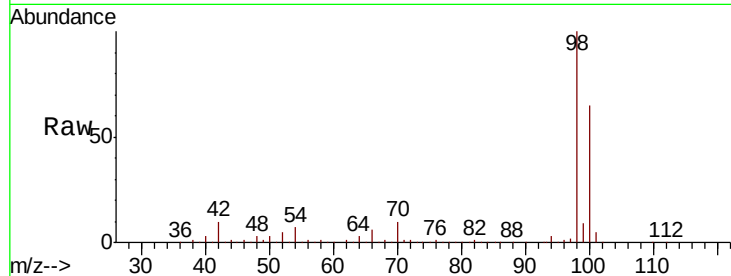
#63
Toluene-d8
Concen: 29.909 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

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

Tgt Ion: 98 Resp: 350950
Ion Ratio Lower Upper
98 100
100 65.1 50.9 76.3

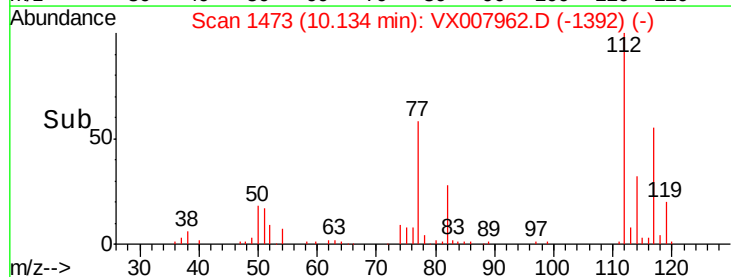
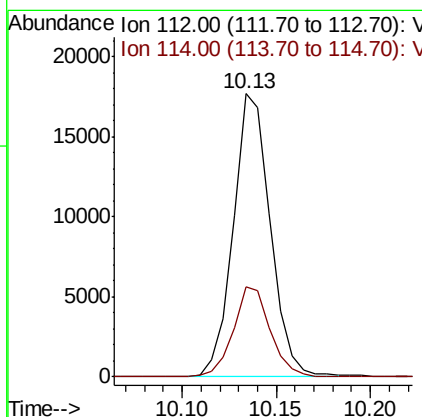
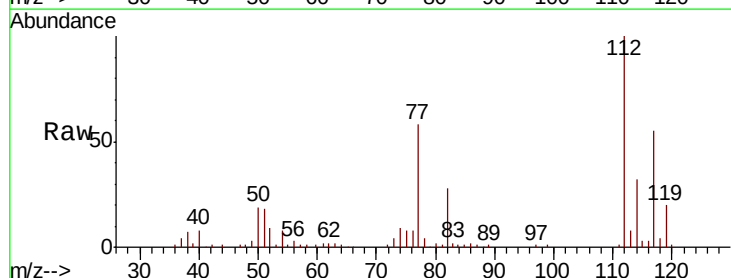
Manual Integrations
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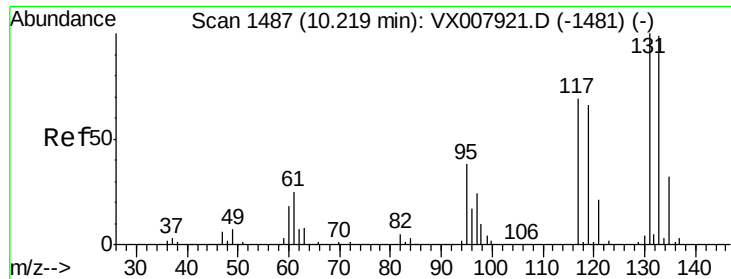
MMDadoda
3/12/2019 1:09:54 PM



#64
Chlorobenzene
Concen: 2.527 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. -0.01 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

Tgt Ion: 112 Resp: 24114
Ion Ratio Lower Upper
112 100
114 31.8 25.4 38.2





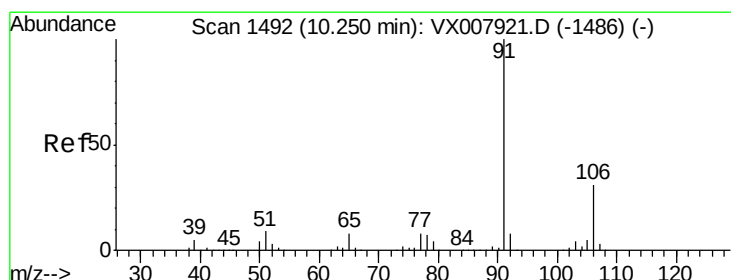
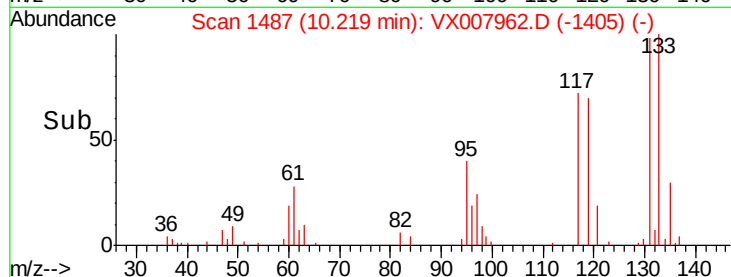
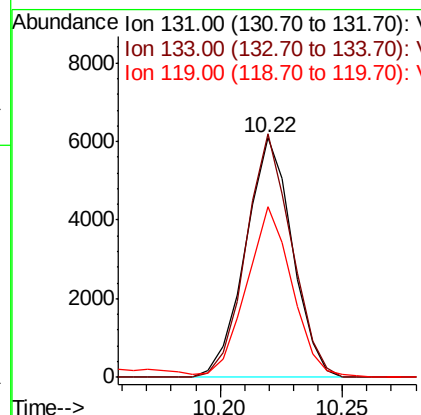
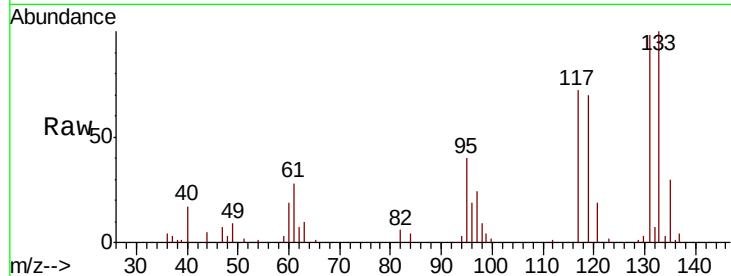
#65
 1,1,1,2-Tetrachloroethane
 Concen: 2.369 ug/l
 RT: 10.22 min Scan# 1487
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

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

Tgt Ion: 131 Resp: 8095
 Ion Ratio Lower Upper
 131 100
 133 98.8 0.0 191.6
 119 69.6 0.0 127.4

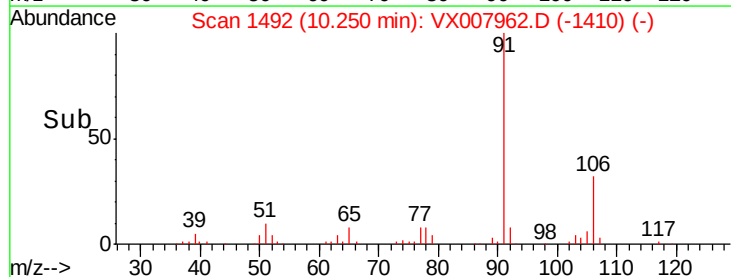
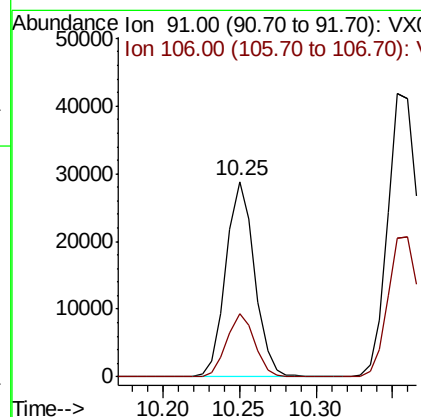
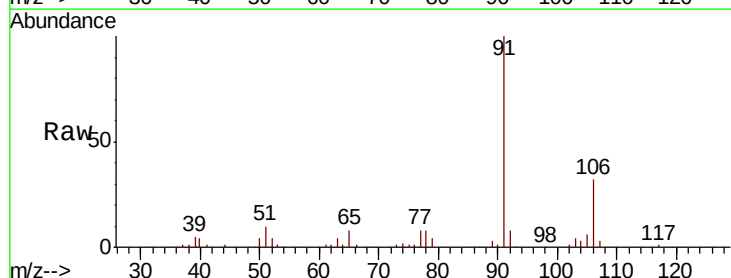
Manual Integrations
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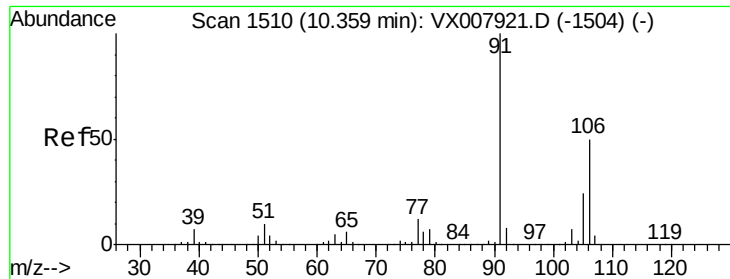
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#66
 Ethyl Benzene
 Concen: 2.344 ug/l
 RT: 10.25 min Scan# 1492
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

Tgt Ion: 91 Resp: 37693
 Ion Ratio Lower Upper
 91 100
 106 32.1 26.0 39.0





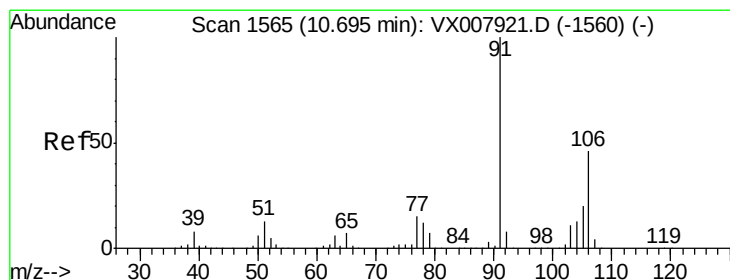
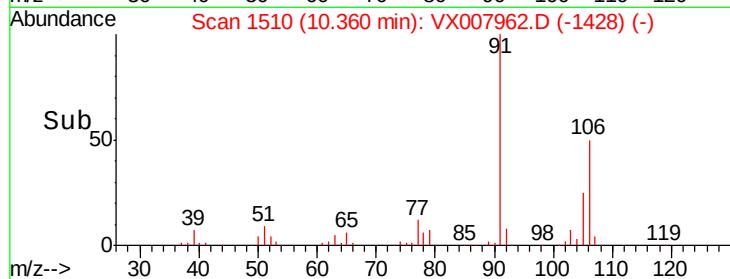
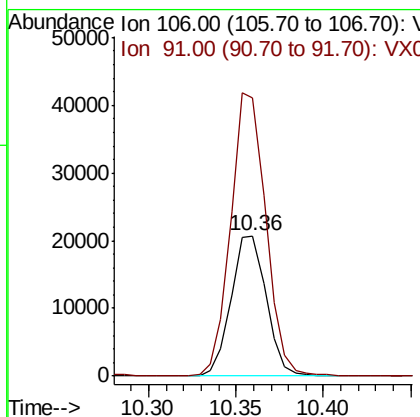
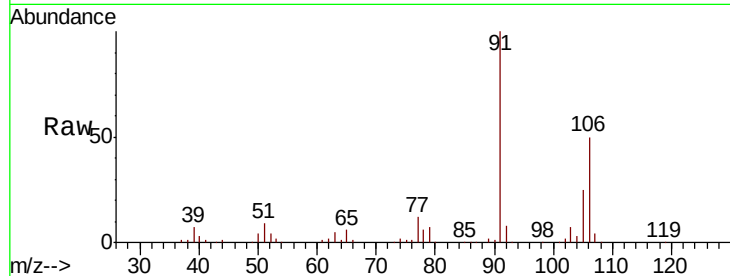
#67
m/p-Xylenes
Concen: 4.727 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

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

Tgt Ion:106 Resp: 29146
Ion Ratio Lower Upper
106 100
91 201.7 157.0 235.4

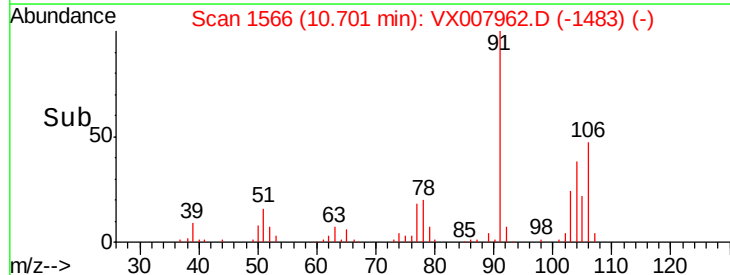
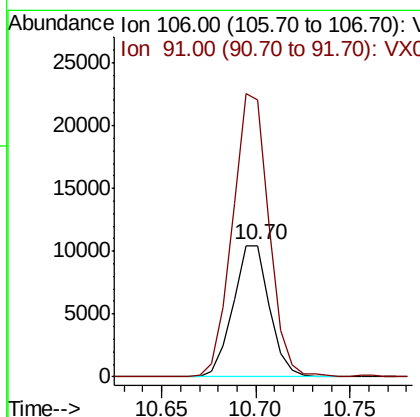
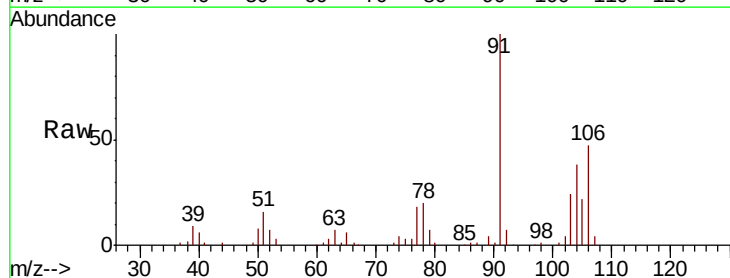
Manual Integrations
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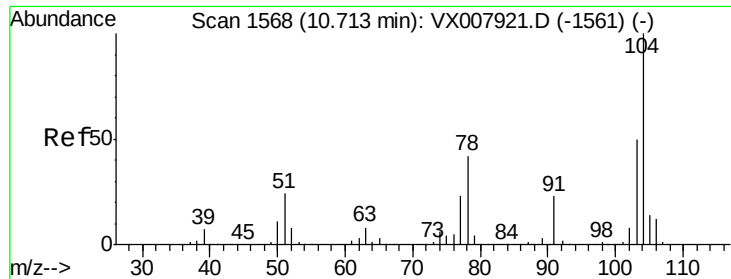
MMDadoda
3/12/2019 1:09:54 PM



#68
o-Xylene
Concen: 2.341 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

Tgt Ion:106 Resp: 14017
Ion Ratio Lower Upper
106 100
91 215.2 104.4 313.2





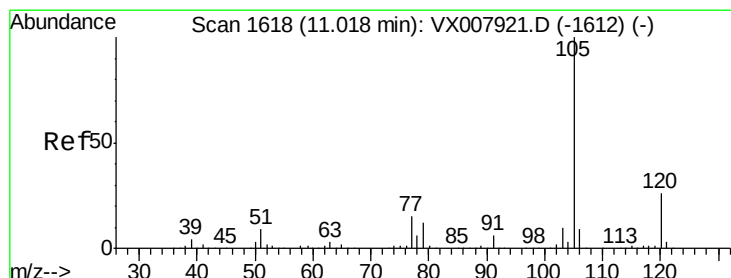
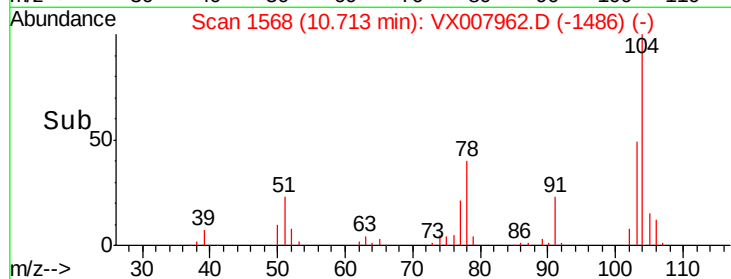
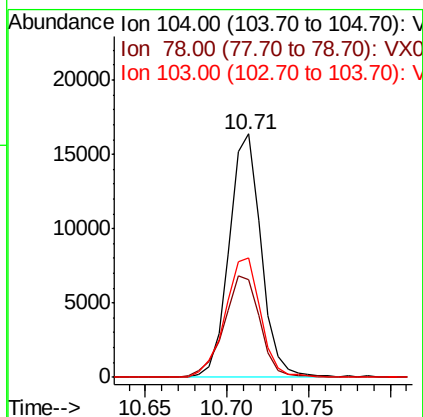
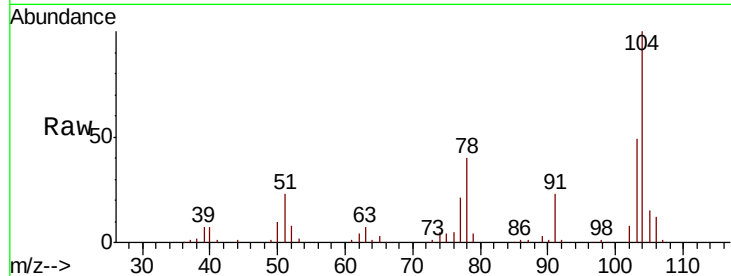
#69
Styrene
Concen: 2.268 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

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

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.1	38.2	57.2
103	54.6	45.0	67.4

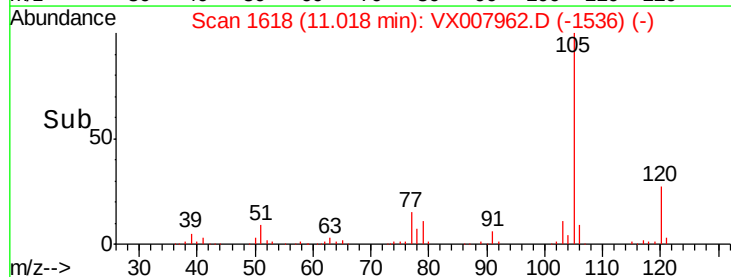
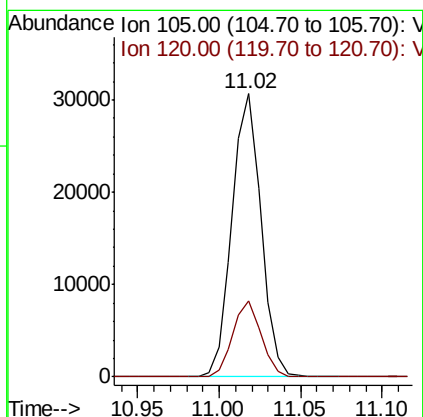
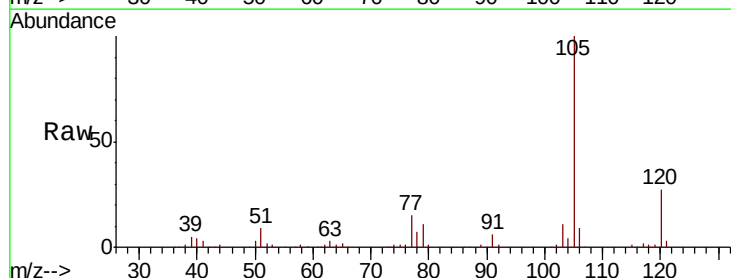
Manual Integrations
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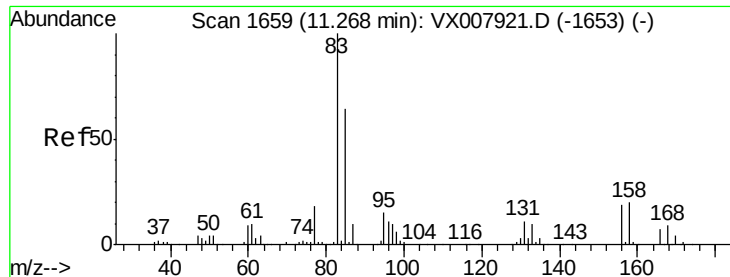
MMDadoda
3/12/2019 1:09:54 PM



#70
Isopropylbenzene
Concen: 2.381 ug/l
RT: 11.02 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.1	19.8	36.8





#71

1,1,2,2-Tetrachloroethane

Concen: 2.491 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Instrument :

MSVOA_X

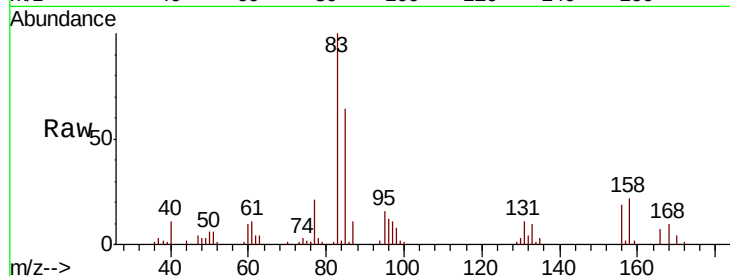
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

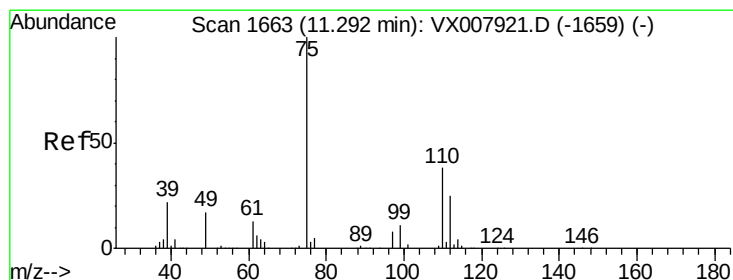
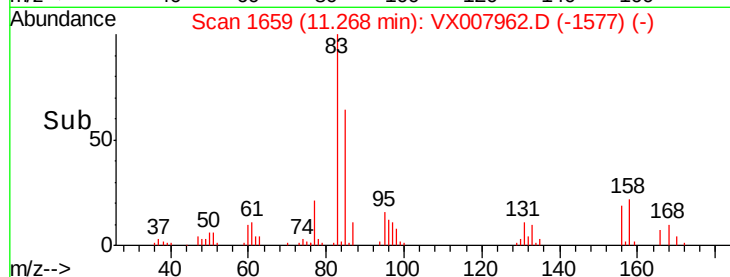
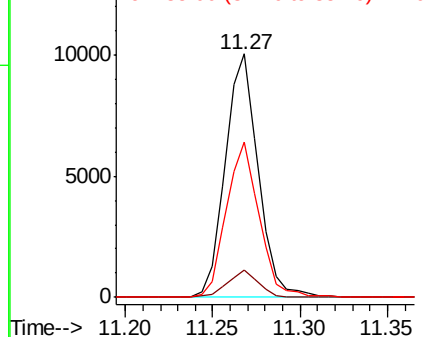
Tgt Ion:	83	Resp:	13165
Ion Ratio	Lower	Upper	
83	100		
131	10.5	5.4	16.2
85	63.3	32.8	98.4

Manual Integrations
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Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 131.00 (130.70 to 131.70): V
Ion 85.00 (84.70 to 85.70): VX0



#72

1,2,3-Trichloropropane

Concen: 2.459 ug/l m

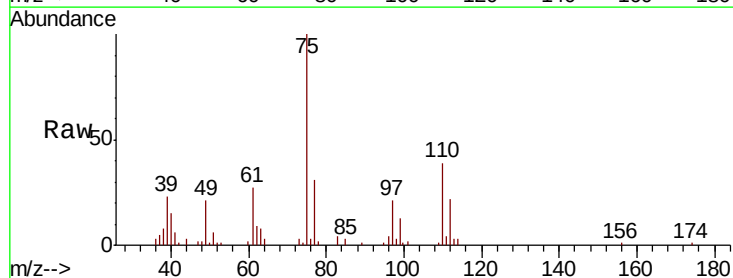
RT: 11.29 min Scan# 1663

Delta R.T. 0.00 min

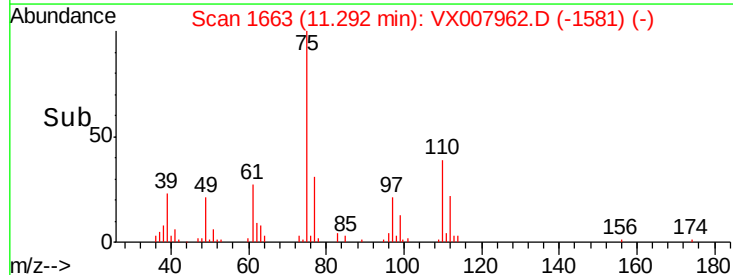
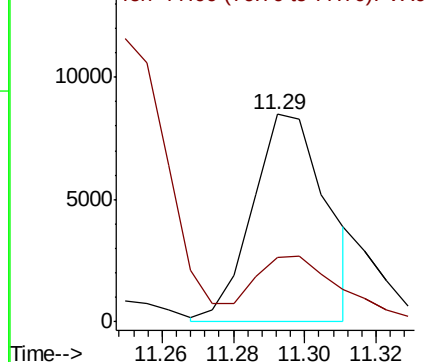
Lab File: VX007962.D

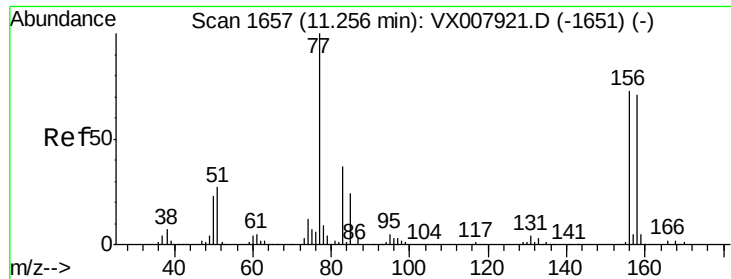
Acq: 11 Mar 2019 11:05

Tgt Ion:	75	Resp:	12248
Ion Ratio	Lower	Upper	
75	100		
77	39.6	0.0	76.4



Abundance Ion 75.00 (74.70 to 75.70): VX0
Ion 77.00 (76.70 to 77.70): VX0





#73

Bromobenzene

Concen: 2.483 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Instrument :

MSVOA_X

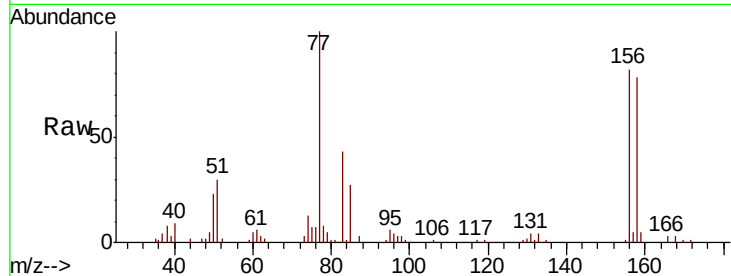
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tgt Ion	Ratio	Resp	Lower	Upper
156	100	10562		
77	141.5	0.0	271.4	
158	100.5	0.0	194.0	

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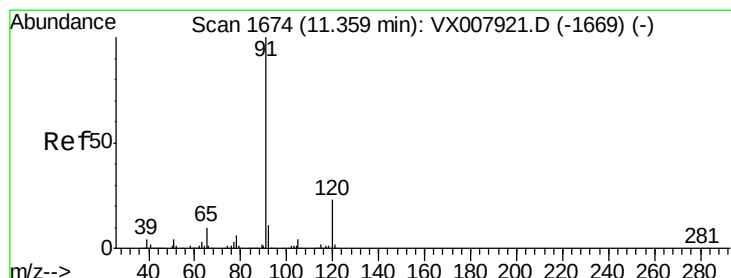
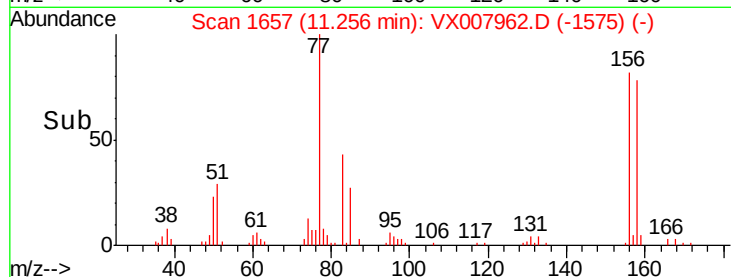
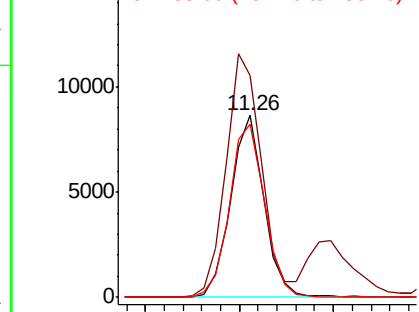


Abundance

Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 2.321 ug/l

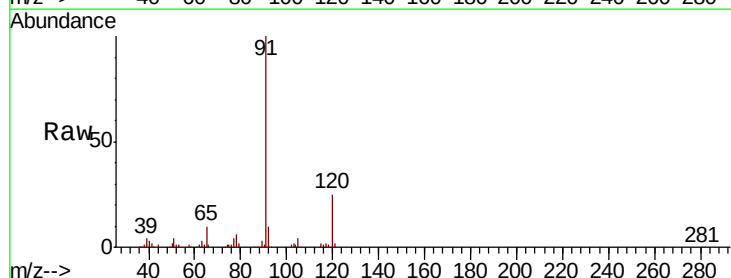
RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

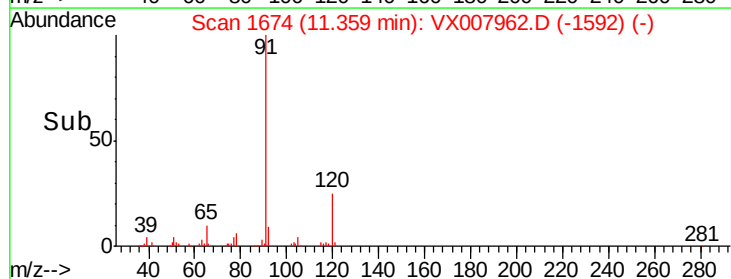
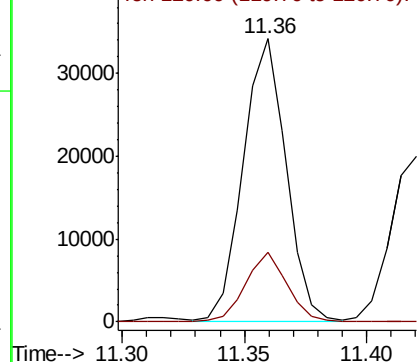
Tgt Ion	Ratio	Resp	Lower	Upper
91	100	41880		
120	23.7	0.0	48.6	

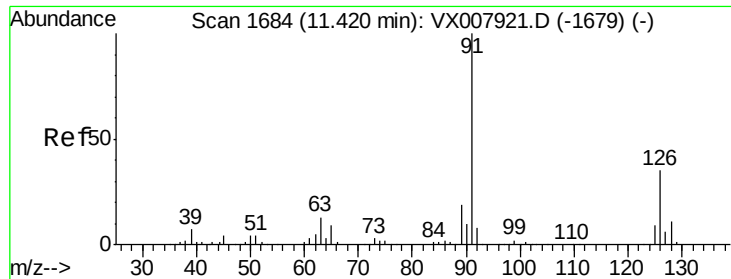


Abundance

Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 2.425 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tgt Ion: 91 Resp: 26233

Ion Ratio Lower Upper

91 100

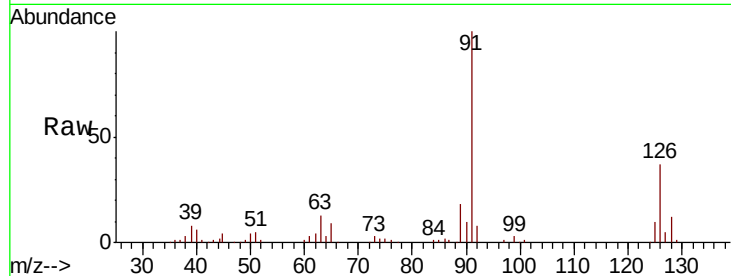
126 34.7 0.0 75.2

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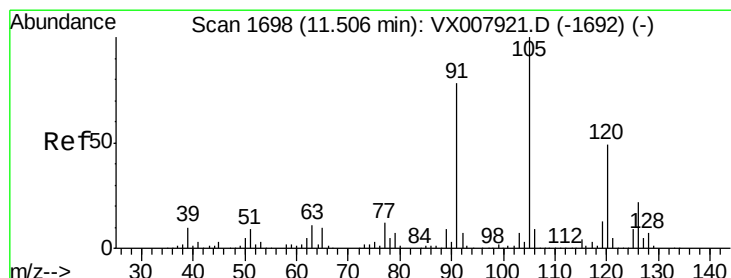
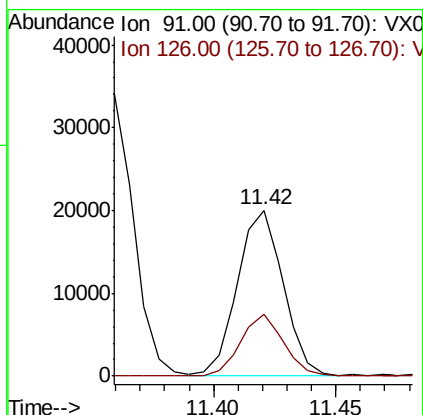
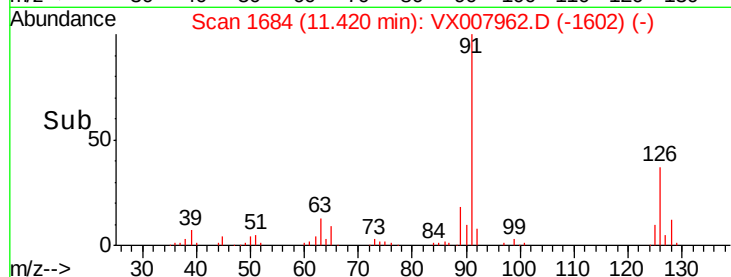
MMDadoda

3/12/2019 1:09:54 PM



Abundance Ion 91.00 (90.70 to 91.70): VX007921.D (-1679) (-)

Ion 126.00 (125.70 to 126.70): VX007921.D (-1679) (-)



#76

1,3,5-Trimethylbenzene

Concen: 2.347 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX007962.D

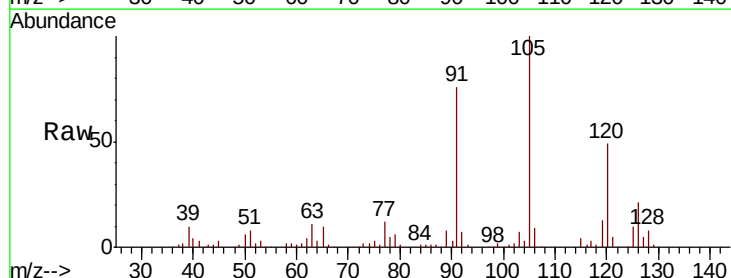
Acq: 11 Mar 2019 11:05

Tgt Ion: 105 Resp: 31127

Ion Ratio Lower Upper

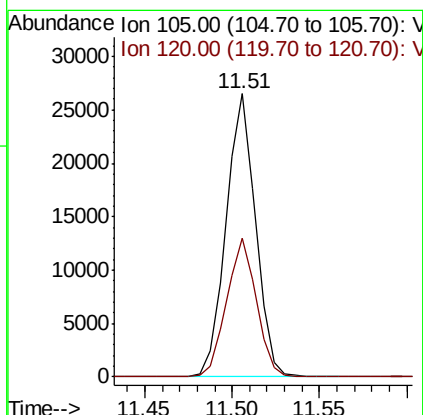
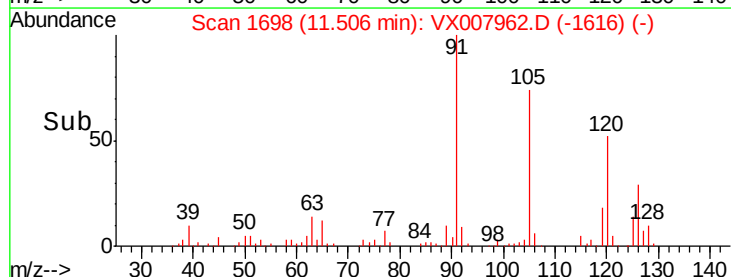
105 100

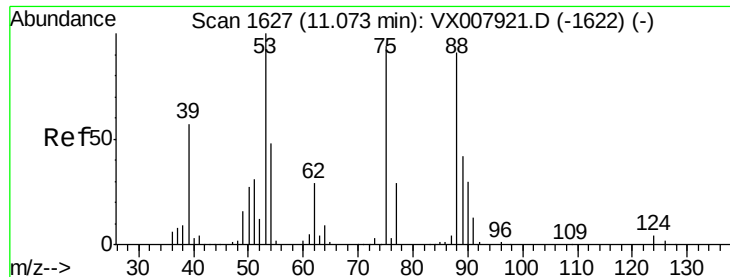
120 49.1 0.0 101.0



Abundance Ion 105.00 (104.70 to 105.70): VX007921.D (-1692) (-)

Ion 120.00 (119.70 to 120.70): VX007921.D (-1692) (-)





#77

t-1,4-Dichloro-2-butene

Concen: 1.979 ug/l

RT: 11.07 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VX007962.D

Acq: 11 Mar 2019 11:05

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tgt Ion: 75 Resp: 3046

Ion Ratio Lower Upper

75 100

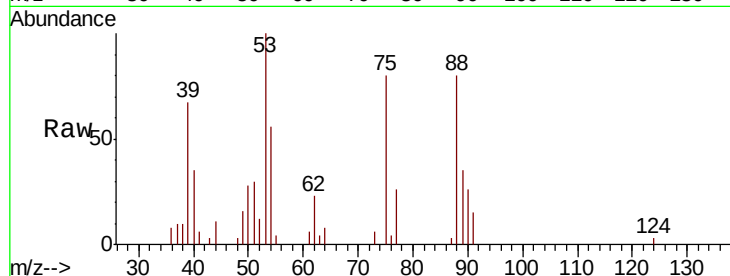
53 125.0 55.5 166.7

89 44.0 24.4 73.2

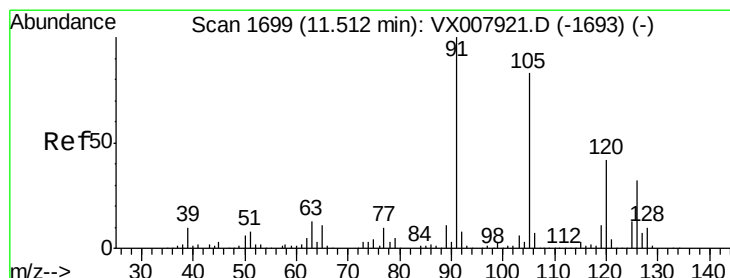
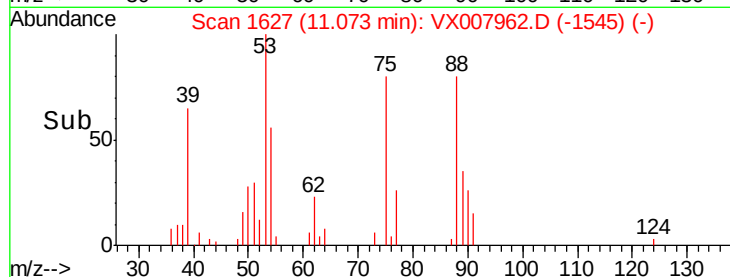
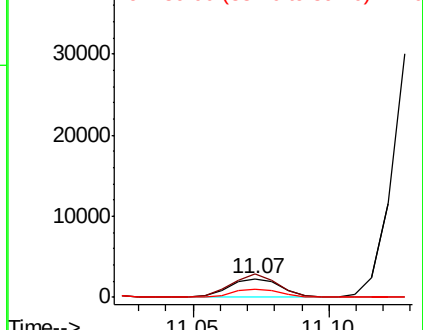
Manual Integrations
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Abundance Ion 75.00 (74.70 to 75.70): VX0
Ion 53.00 (52.70 to 53.70): VX0
Ion 89.00 (88.70 to 89.70): VX0



#78

4-Chlorotoluene

Concen: 2.367 ug/l

RT: 11.51 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VX007962.D

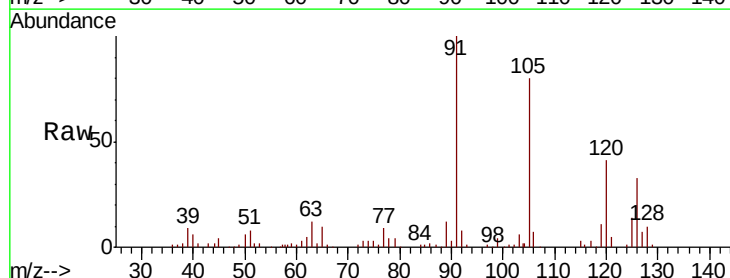
Acq: 11 Mar 2019 11:05

Tgt Ion: 91 Resp: 28953

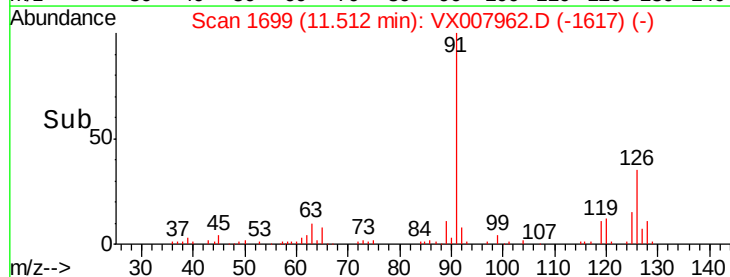
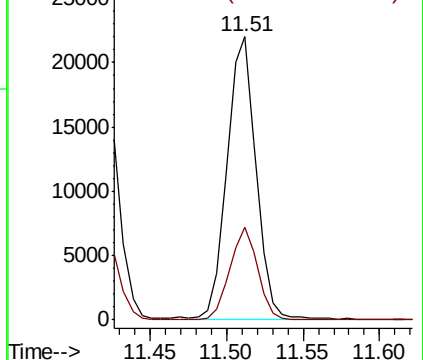
Ion Ratio Lower Upper

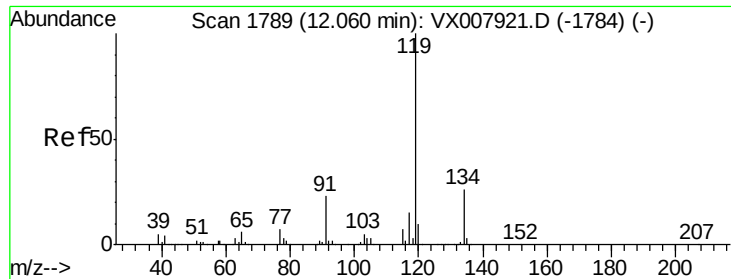
91 100

126 31.3 0.0 66.2



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 126.00 (125.70 to 126.70): V





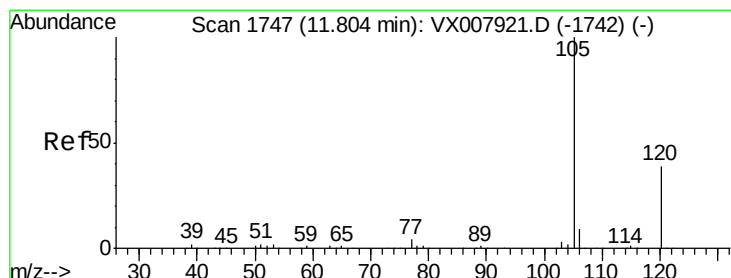
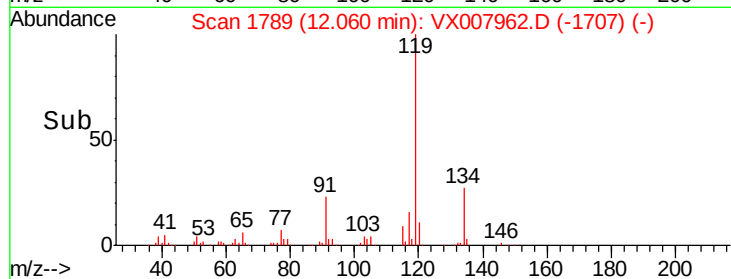
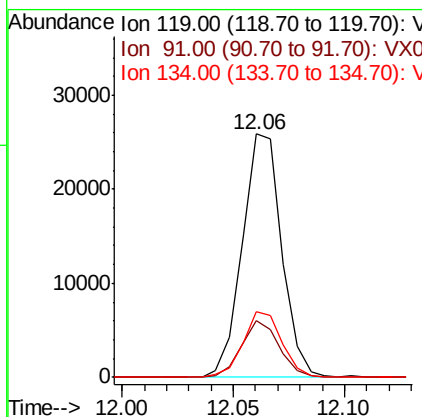
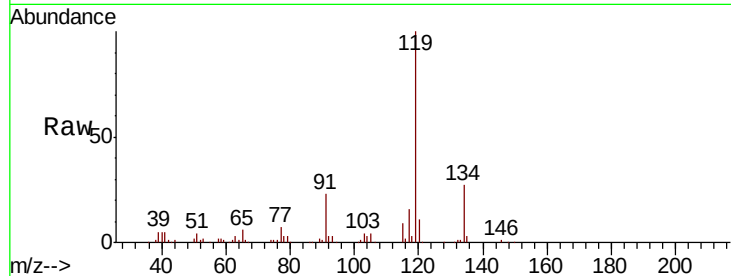
#79
tert-butylbenzene
Concen: 2.242 ug/l
RT: 12.06 min Scan# 1789
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

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

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	31906		
91	22.8	0.0	45.0	
134	26.7	0.0	55.4	

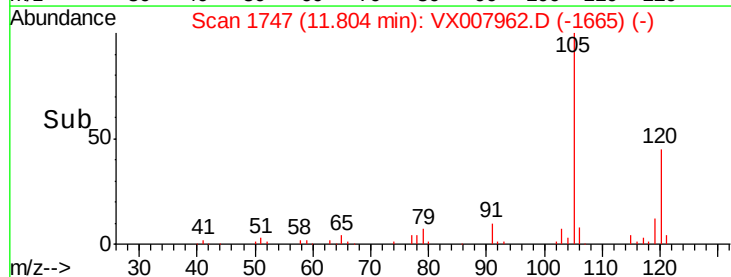
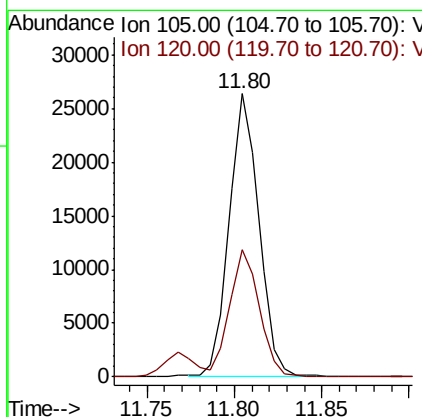
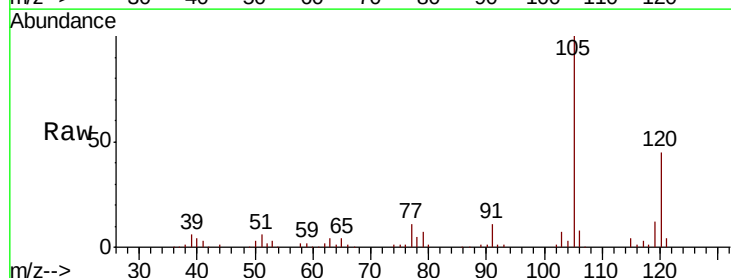
Manual Integrations
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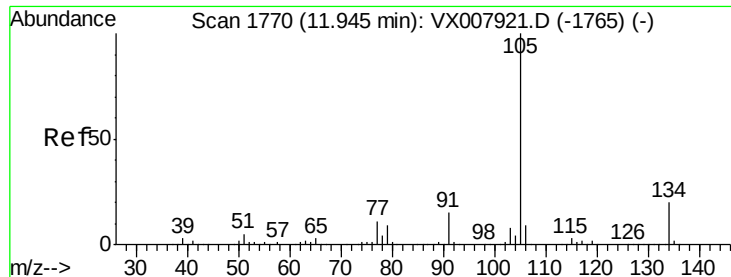
MMDadoda
3/12/2019 1:09:54 PM



#80
1,2,4-Trimethylbenzene
Concen: 2.326 ug/l
RT: 11.80 min Scan# 1747
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	31300		
120	44.6	0.0	94.0	





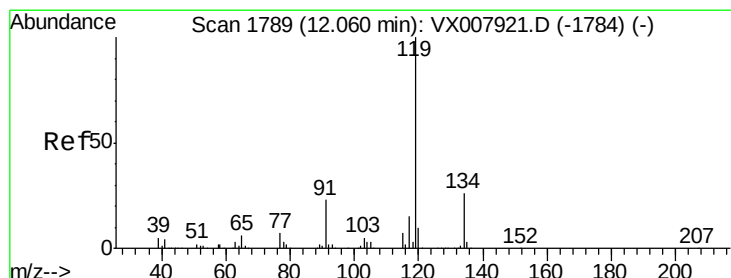
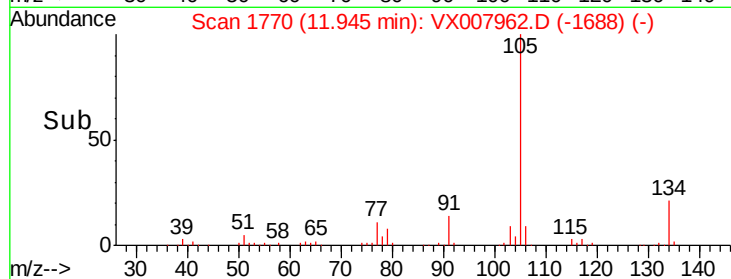
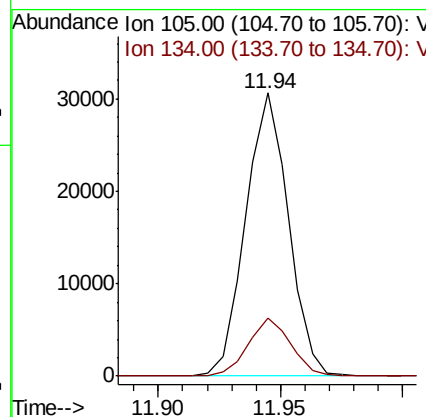
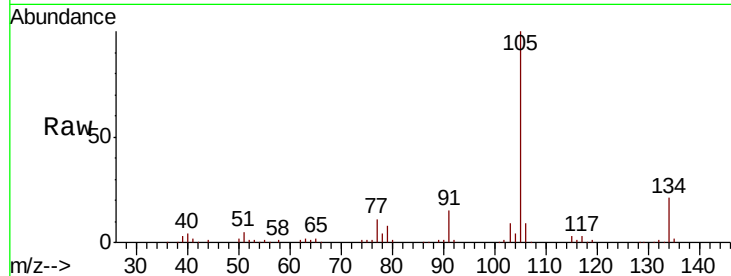
#81
 sec-Butylbenzene
 Concen: 2.341 ug/l
 RT: 11.94 min Scan# 1770
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

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

Tgt Ion:105 Resp: 37304
 Ion Ratio Lower Upper
 105 100
 134 20.5 0.0 41.8

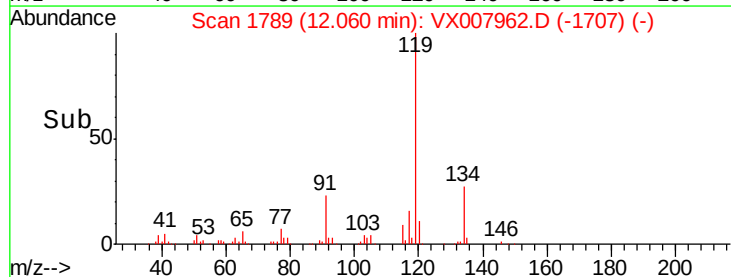
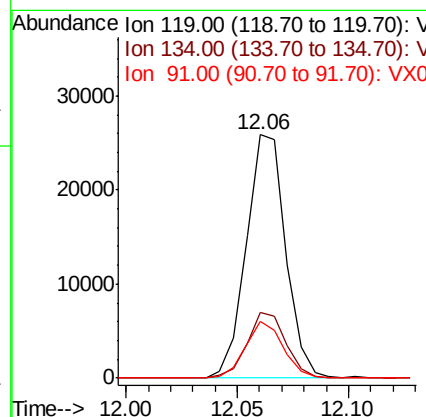
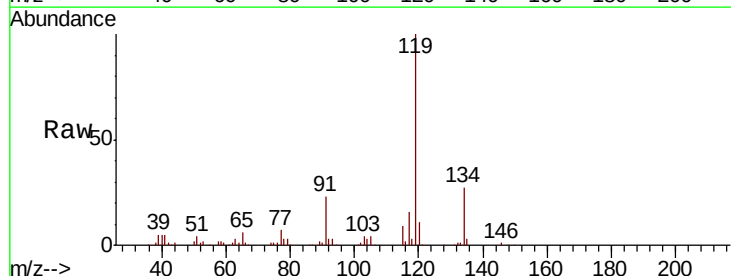
Manual Integrations
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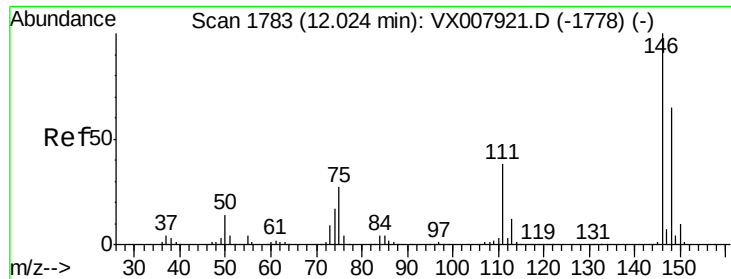
MMDadoda
 3/12/2019 1:09:54 PM



#82
 p-Isopropyltoluene
 Concen: 2.242 ug/l
 RT: 12.06 min Scan# 1789
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

Tgt Ion:119 Resp: 31906
 Ion Ratio Lower Upper
 119 100
 134 26.7 0.0 55.4
 91 22.8 0.0 45.0





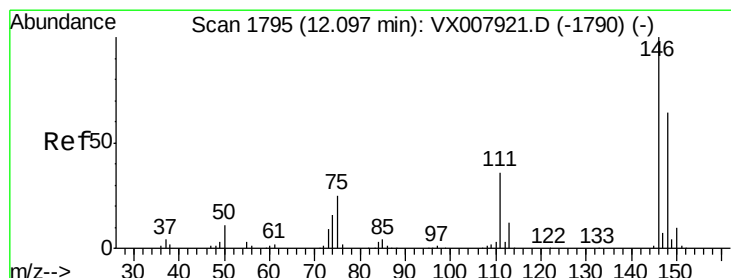
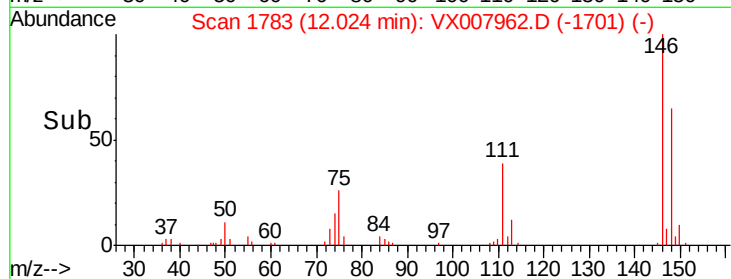
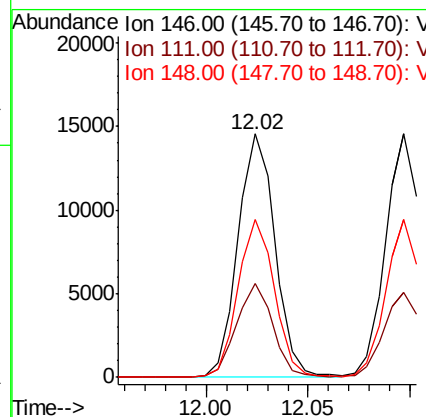
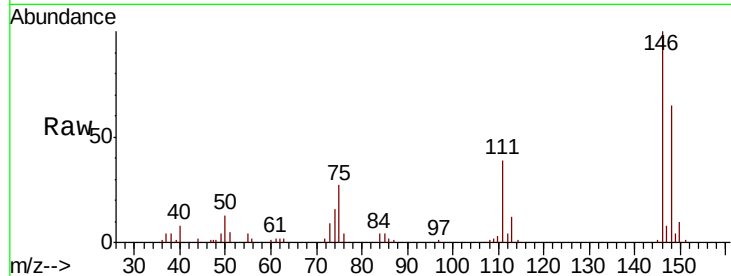
#83
 1,3-Dichlorobenzene
 Concen: 2.424 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

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

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.8	56.3
148	63.6	30.6	91.8

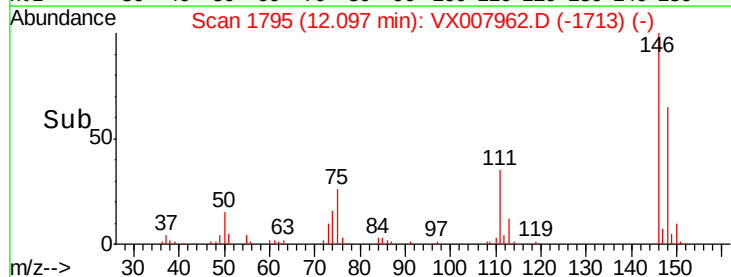
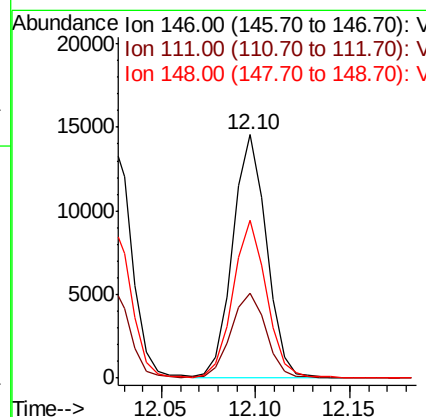
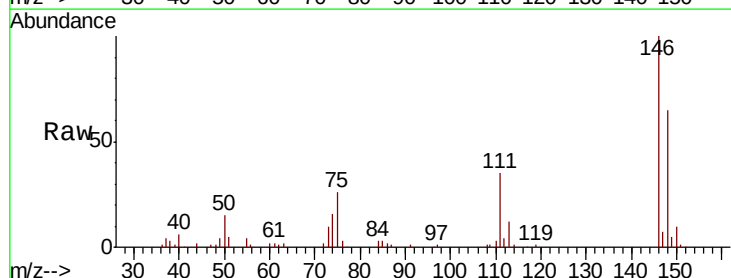
Manual Integrations
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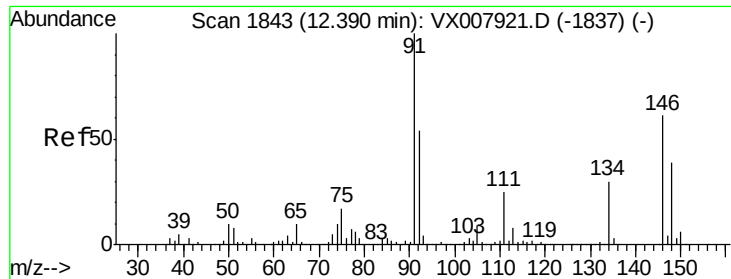
MMDadoda
 3/12/2019 1:09:54 PM



#84
 1,4-Dichlorobenzene
 Concen: 2.401 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.0	17.6	52.8
148	63.8	31.4	94.2





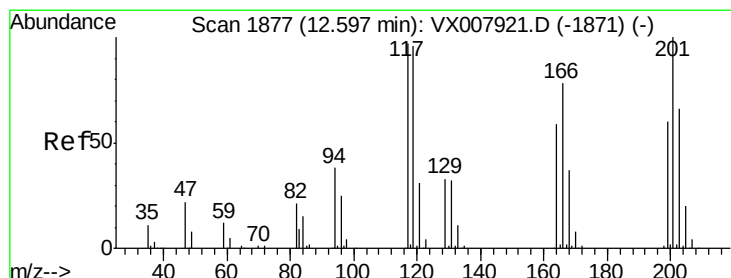
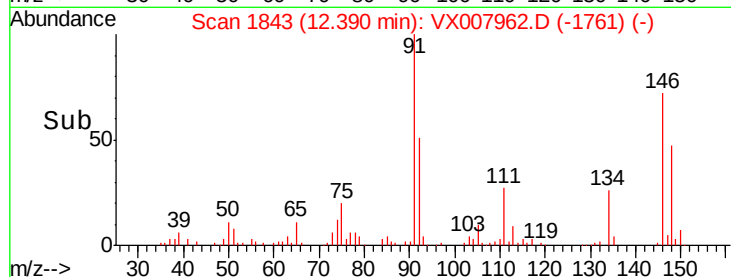
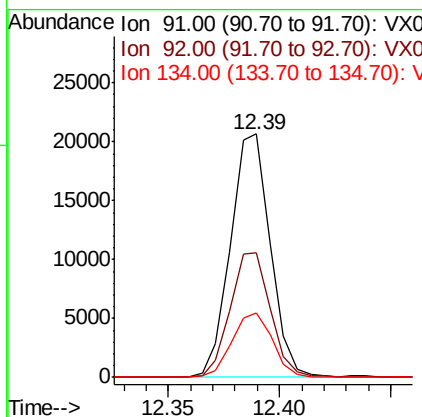
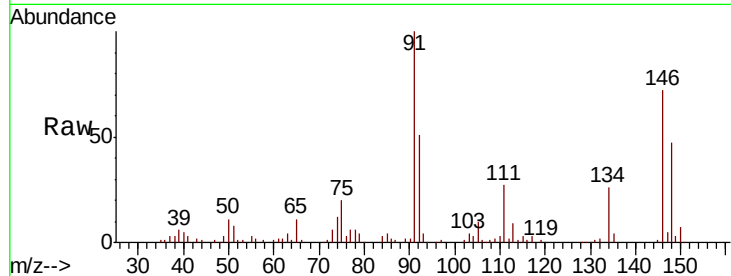
#85
n-Butylbenzene
Concen: 2.121 ug/l
RT: 12.39 min Scan# 1843
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

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

Tgt Ion: 91 Resp: 25813
Ion Ratio Lower Upper
91 100
92 51.8 0.0 105.2
134 26.5 0.0 56.4

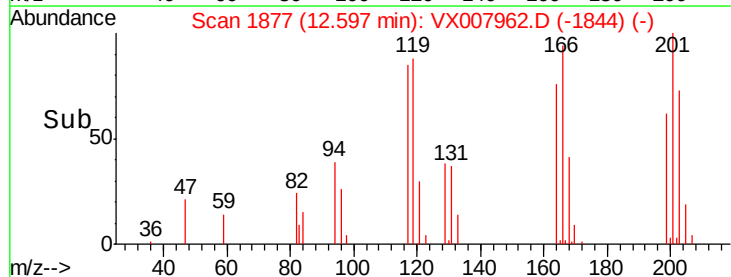
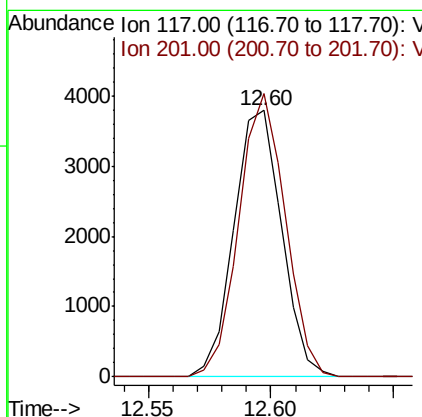
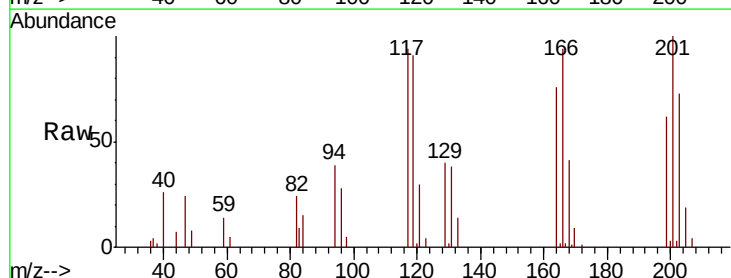
Manual Integrations
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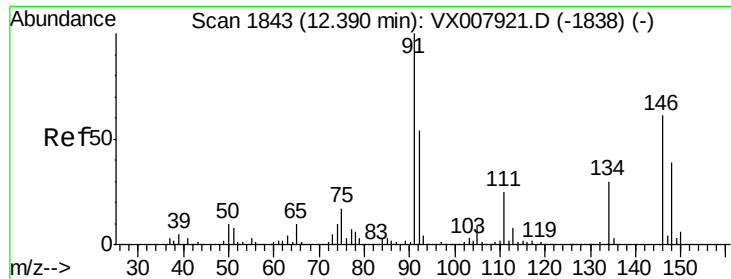
MMDadoda
3/12/2019 1:09:54 PM



#86
Hexachloroethane
Concen: 2.227 ug/l
RT: 12.60 min Scan# 1877
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

Tgt Ion: 117 Resp: 5163
Ion Ratio Lower Upper
117 100
201 103.1 41.1 123.3





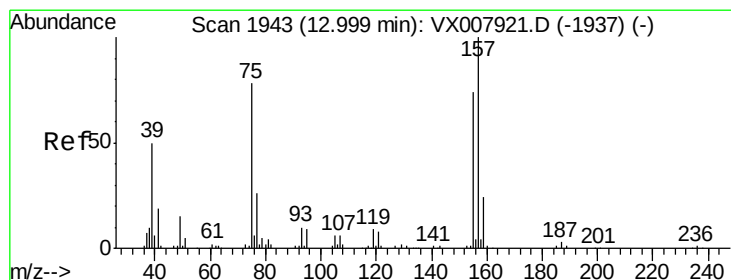
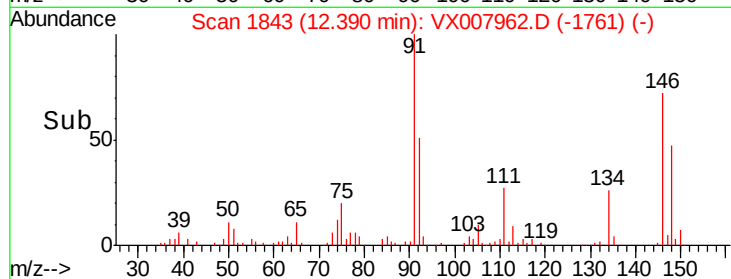
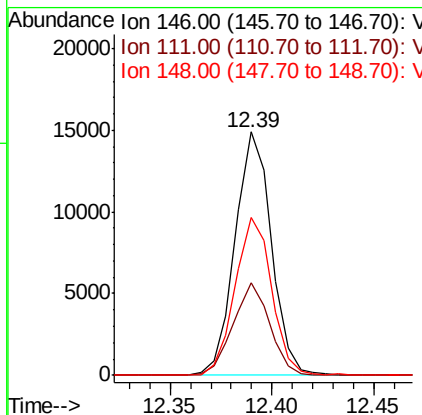
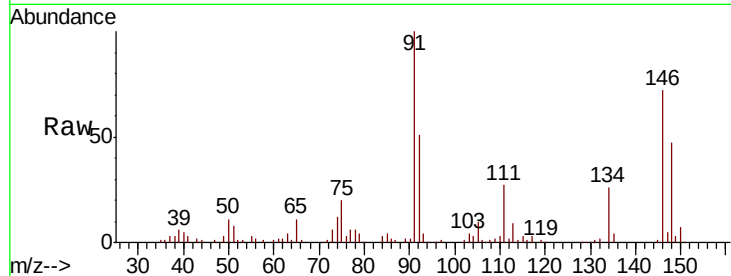
#87
 1,2-Dichlorobenzene
 Concen: 2.462 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

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

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	18425		
111	38.3	19.3	57.8	
148	65.2	32.1	96.3	

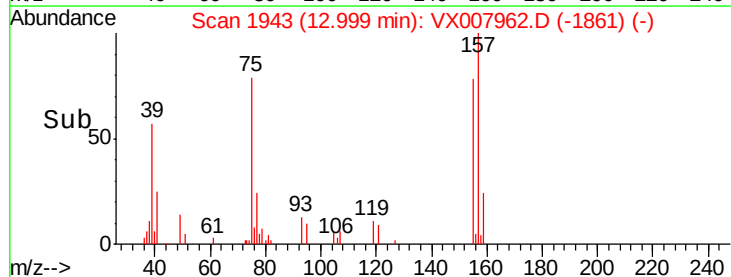
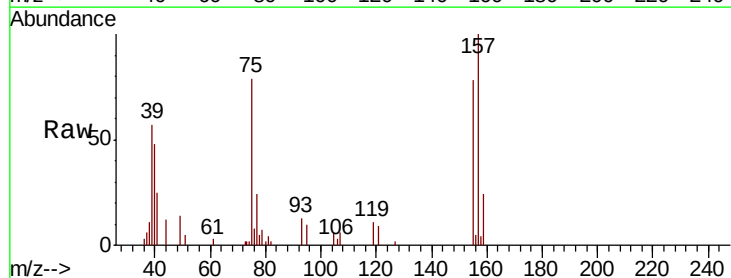
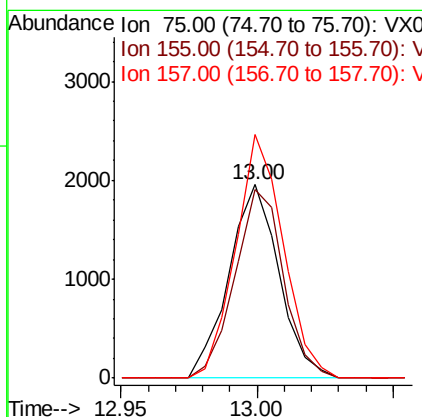
Manual Integrations
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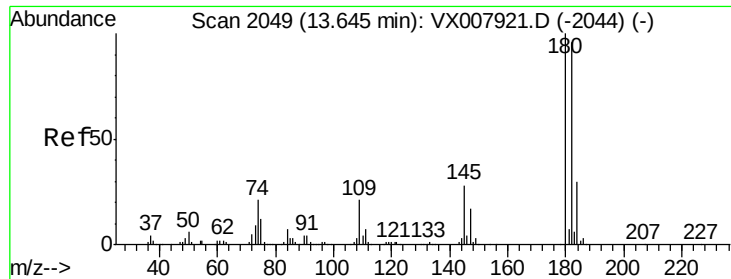
MMDadoda
 3/12/2019 1:09:54 PM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 2.318 ug/l
 RT: 13.00 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	2502		
155	94.6	81.0	121.6	
157	119.3	103.2	154.8	





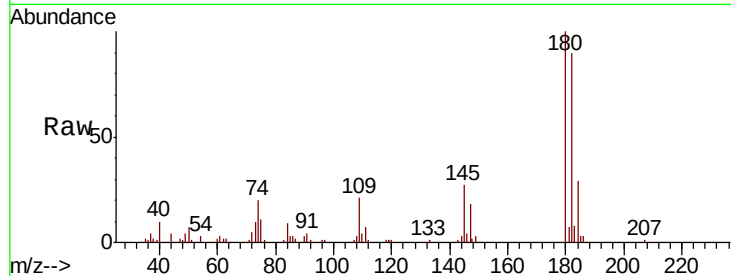
#89
 1,2,4-Trichlorobenzene
 Concen: 2.237 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

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

Tgt Ion	Ratio	Lower	Upper
180	100		
182	92.3	75.6	113.4
145	27.4	23.0	34.6

Manual Integrations
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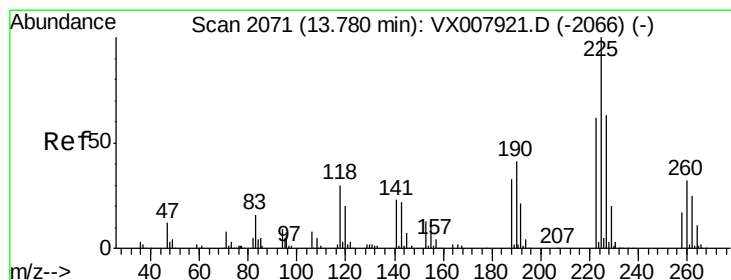
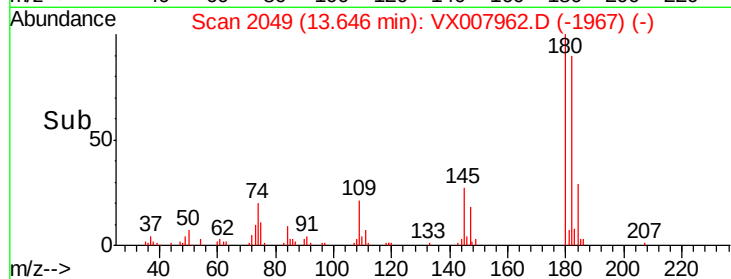
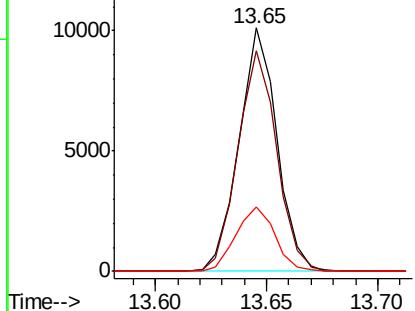


Abundance

Ion 180.00 (179.70 to 180.70): V

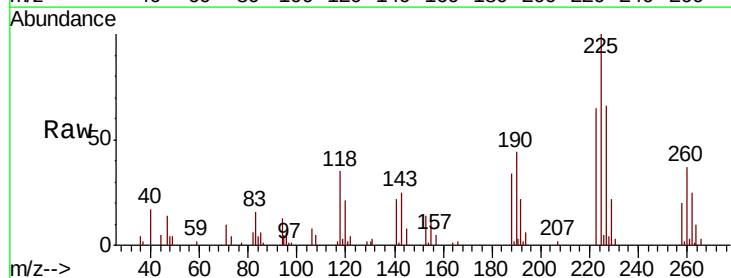
Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#90
 Hexachlorobutadiene
 Concen: 2.431 ug/l
 RT: 13.78 min Scan# 2071
 Delta R.T. 0.00 min
 Lab File: VX007962.D
 Acq: 11 Mar 2019 11:05

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.3	0.0	123.8
227	63.3	0.0	124.4

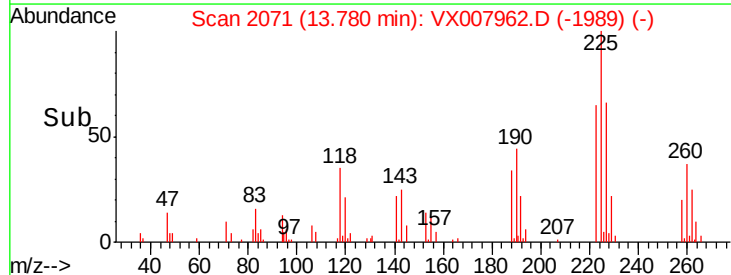
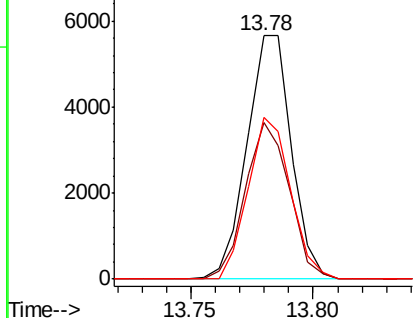


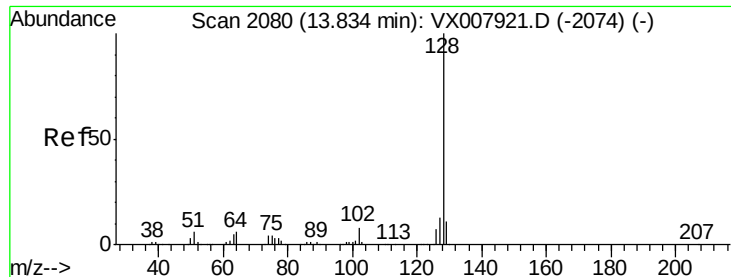
Abundance

Ion 225.00 (224.70 to 225.70): V

Ion 223.00 (222.70 to 223.70): V

Ion 227.00 (226.70 to 227.70): V





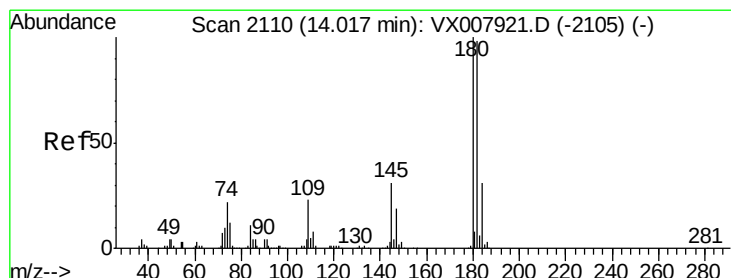
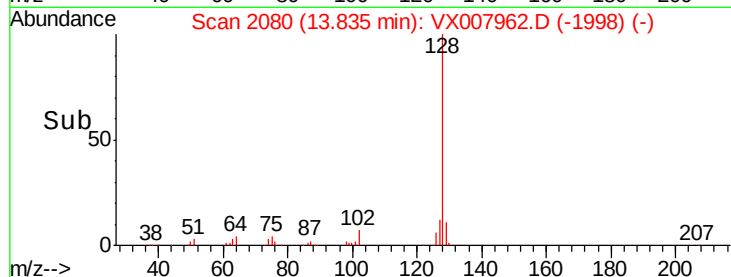
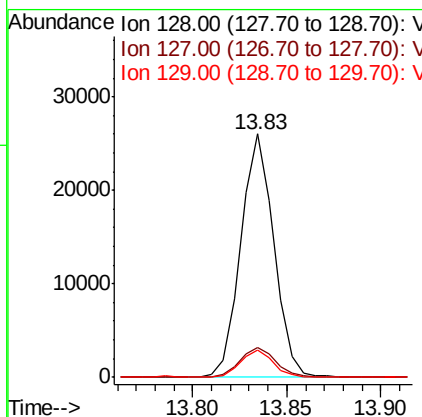
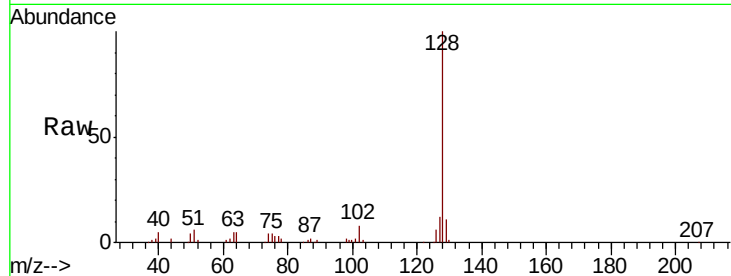
#91
Naphthalene
Concen: 2.056 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

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

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	31699		
127	13.1	10.5	15.7	
129	11.2	8.9	13.3	

Manual Integrations
APPROVED

MMDadoda
3/12/2019 1:09:54 PM



#92
1,2,3-Trichlorobenzene
Concen: 2.267 ug/l
RT: 14.02 min Scan# 2110
Delta R.T. 0.00 min
Lab File: VX007962.D
Acq: 11 Mar 2019 11:05

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	12118		
182	98.2	0.0	193.0	
145	28.4	0.0	63.0	

