

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041619\
 Data File : VX008978.D
 Acq On : 16 Apr 2019 11:35
 Operator : JC/SP
 Sample : K2241-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 9:58:47 AM

Quant Time: Apr 17 06:50:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 09:35:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	210618	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	341549	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	299604	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	136744	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	146829	49.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.94%	
35) Dibromofluoromethane	5.50	113	105014	47.91	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.82%	
50) Toluene-d8	8.71	98	435689	49.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.68%	
62) 4-Bromofluorobenzene	11.13	95	151360	49.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.10%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	1.20	85	1009	0.416	ug/l	92
3) Chloromethane	1.32	50	1796	0.603	ug/l	97
4) Vinyl Chloride	1.40	62	1390	0.480	ug/l	93
5) Bromomethane	1.64	94	1793	0.952	ug/l	99
6) Chloroethane	1.72	64	1004	0.589	ug/l	94
7) Trichlorofluoromethane	1.93	101	1605	0.474	ug/l	99
8) Diethyl Ether	2.19	74	845	0.546	ug/l	48
9) 1,1,2-Trichlorotrifluoroet	2.37	101	1023	0.473	ug/l	94
10) Methyl Iodide	2.51	142	3492	1.622	ug/l	94
11) Tert butyl alcohol	3.06	59	8039	12.201	ug/l #	94
12) 1,1-Dichloroethene	2.38	96	1081	0.479	ug/l #	67
13) Acrolein	2.29	56	5429	9.537	ug/l	95
14) Allyl chloride	2.73	41	2498	0.507	ug/l	94
15) Acrylonitrile	3.14	53	4075	2.436	ug/l	88
16) Acetone	2.44	43	4192	2.723	ug/l	96
17) Carbon Disulfide	2.57	76	3494	0.498	ug/l #	91
18) Methyl Acetate	2.77	43	2354	0.613	ug/l	96
19) Methyl tert-butyl Ether	3.20	73	3719	0.462	ug/l	97
20) Methylene Chloride	2.85	84	1697	0.645	ug/l	85
21) trans-1,2-Dichloroethene	3.17	96	1368	0.568	ug/l #	82
22) Diisopropyl ether	3.85	45	4688	0.490	ug/l #	95
23) Vinyl Acetate	3.81	43	17013	2.021	ug/l #	95
24) 1,1-Dichloroethane	3.70	63	2506	0.521	ug/l #	92
25) 2-Butanone	4.68	43	5783	2.350	ug/l #	89
26) 2,2-Dichloropropane	4.59	77	1615	0.448	ug/l	91
27) cis-1,2-Dichloroethene	4.60	96	1433	0.524	ug/l	96
28) Bromochloromethane	5.02	49	1481	0.664	ug/l #	85
29) Tetrahydrofuran	5.14	42	3757	2.281	ug/l #	75
30) Chloroform	5.21	83	2271	0.528	ug/l	98
31) Cyclohexane	5.58	56	2239	0.474	ug/l #	90
32) 1,1,1-Trichloroethane	5.49	97	1857	0.521	ug/l #	52
36) 1,1-Dichloropropene	5.80	75	1806	0.511	ug/l	96
37) Ethyl Acetate	4.84	43	1731	0.381	ug/l #	95
38) Carbon Tetrachloride	5.78	117	1371	0.458	ug/l #	80

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX041619\
 Data File : VX008978.D
 Acq On : 16 Apr 2019 11:35
 Operator : JC/SP
 Sample : K2241-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 9:58:47 AM

Quant Time: Apr 17 06:50:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 16 09:35:21 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	1976	0.459	ug/l	94
40) Benzene	6.14	78	4936	0.474	ug/l	97
41) Methacrylonitrile	5.04	41	1376	0.527	ug/l #	46
42) 1,2-Dichloroethane	6.19	62	2353	0.637	ug/l	99
43) Isopropyl Acetate	6.45	43	3572	0.488	ug/l	95
44) Trichloroethene	7.21	130	1240	0.486	ug/l	90
45) 1,2-Dichloropropane	7.51	63	1461	0.505	ug/l #	83
46) Dibromomethane	7.67	93	777	0.462	ug/l	93
47) Bromodichloromethane	7.90	83	1465	0.444	ug/l #	85
48) Methyl methacrylate	7.77	41	1146	0.317	ug/l #	38
49) 1,4-Dioxane	7.74	88	643	9.492	ug/l #	49
51) 4-Methyl-2-Pentanone	8.64	43	9777	2.095	ug/l	97
52) Toluene	8.78	92	3039	0.487	ug/l	94
53) t-1,3-Dichloropropene	9.04	75	1502	0.395	ug/l #	79
54) cis-1,3-Dichloropropene	8.44	75	1773	0.417	ug/l #	87
55) 1,1,2-Trichloroethane	9.21	97	1175	0.475	ug/l	91
56) Ethyl methacrylate	9.18	69	1827	0.412	ug/l #	83
57) 1,3-Dichloropropane	9.37	76	2026	0.460	ug/l	94
58) 2-Chloroethyl Vinyl ether	8.31	63	5385	2.253	ug/l	96
59) 2-Hexanone	9.49	43	7922	2.202	ug/l	97
60) Dibromochloromethane	9.58	129	969	0.408	ug/l	100
61) 1,2-Dibromoethane	9.67	107	1145	0.448	ug/l	100
64) Tetrachloroethene	9.34	164	1112	0.489	ug/l	94
65) Chlorobenzene	10.13	112	2739	0.433	ug/l	95
66) 1,1,1,2-Tetrachloroethane	10.22	131	976	0.438	ug/l #	61
67) Ethyl Benzene	10.25	91	5071	0.439	ug/l	97
68) m/p-Xylenes	10.36	106	3789	0.902	ug/l	96
69) o-Xylene	10.70	106	1851	0.453	ug/l	88
70) Styrene	10.71	104	2953	0.417	ug/l	91
71) Bromoform	10.85	173	666	0.375	ug/l #	94
73) Isopropylbenzene	11.02	105	4550	0.439	ug/l	89
74) N-amyl acetate	10.90	43	2766	0.465	ug/l	96
75) 1,1,2,2-Tetrachloroethane	11.27	83	1907	0.504	ug/l	97
76) 1,2,3-Trichloropropane	11.29	75	1868m	0.559	ug/l	
77) Bromobenzene	11.26	156	1154	0.441	ug/l	89
78) n-propylbenzene	11.36	91	5195	0.437	ug/l	98
79) 2-Chlorotoluene	11.42	91	3555	0.496	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	3697	0.425	ug/l	94
81) trans-1,4-Dichloro-2-buten	11.07	75	484m	0.372	ug/l	
82) 4-Chlorotoluene	11.51	91	3985	0.479	ug/l	96
83) tert-Butylbenzene	11.77	119	3781	0.453	ug/l	97
84) 1,2,4-Trimethylbenzene	11.80	105	3643	0.411	ug/l	88
85) sec-Butylbenzene	11.94	105	4142	0.416	ug/l	98
86) p-Isopropyltoluene	12.07	119	3761	0.411	ug/l #	84
87) 1,3-Dichlorobenzene	12.02	146	2085	0.456	ug/l	96
88) 1,4-Dichlorobenzene	12.10	146	2260m	0.487	ug/l	
89) n-Butylbenzene	12.38	91	3219	0.377	ug/l	98
90) Hexachloroethane	12.59	117	549	0.363	ug/l	99
91) 1,2-Dichlorobenzene	12.39	146	2142	0.474	ug/l	94
92) 1,2-Dibromo-3-Chloropropan	12.99	75	465	0.539	ug/l	78

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX041619\
Data File : VX008978.D
Acq On : 16 Apr 2019 11:35
Operator : JC/SP
Sample : K2241-09
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

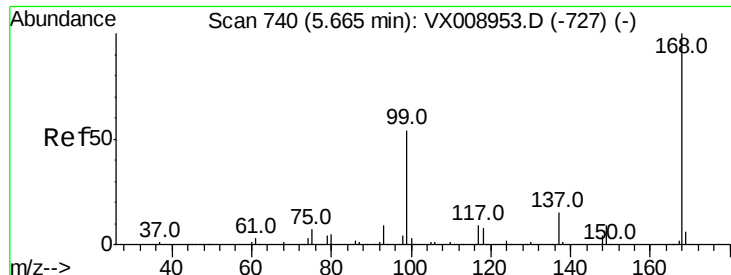
Manual Integrations
APPROVED

MMDadoda
4/17/2019 9:58:47 AM

Quant Time: Apr 17 06:50:29 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X041519W.M
Quant Title : SW846 8260
QLast Update : Tue Apr 16 09:35:21 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	1342	0.411	ug/l	98
94) Hexachlorobutadiene	13.79	225	732	0.450	ug/l	88
95) Naphthalene	13.83	128	3918	0.375	ug/l	96
96) 1,2,3-Trichlorobenzene	14.02	180	1386	0.431	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.01 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:168 Resp: 210618

Ion Ratio Lower Upper

168 100

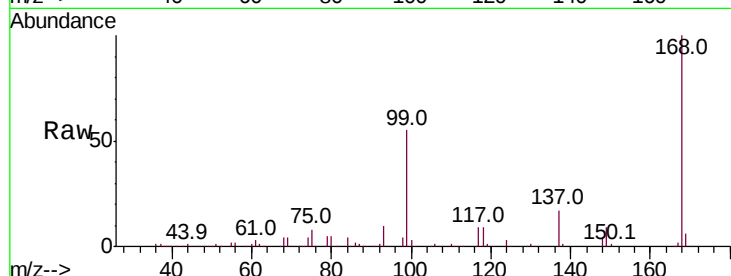
99 55.0 43.0 64.6

Manual Integrations

APPROVED

MMDadoda

4/17/2019 9:58:47 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

80000

60000

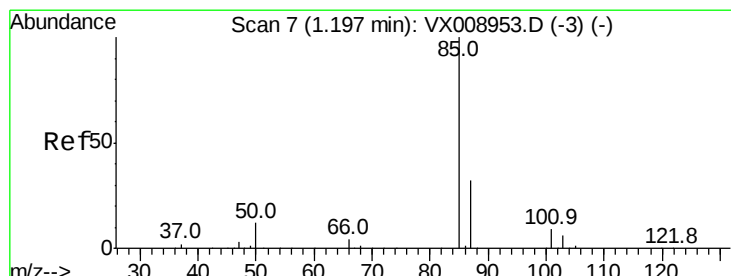
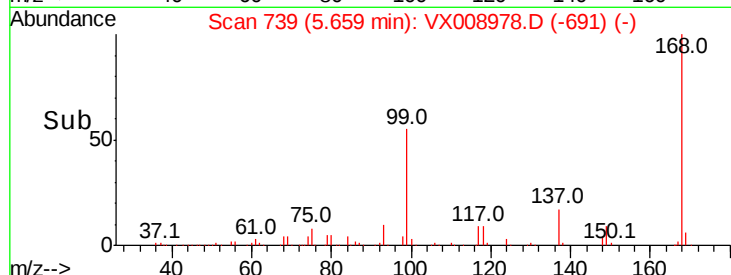
40000

20000

0

5.50 5.60 5.70 5.80

5.66



#2

Dichlorodifluoromethane

Concen: 0.416 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX008978.D

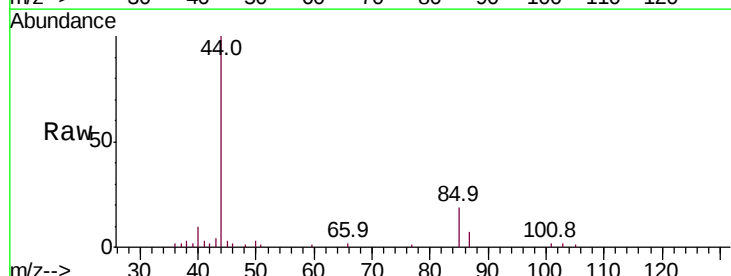
Acq: 16 Apr 2019 11:35

Tgt Ion: 85 Resp: 1009

Ion Ratio Lower Upper

85 100

87 36.1 16.0 47.9



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

800

600

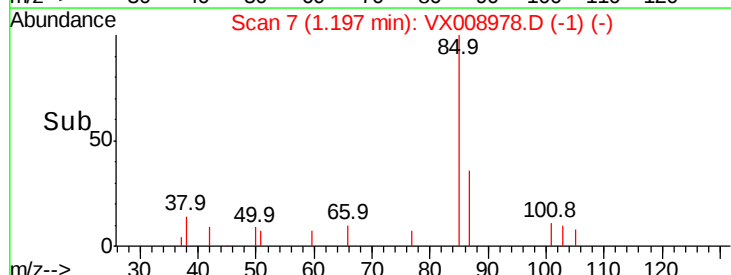
400

200

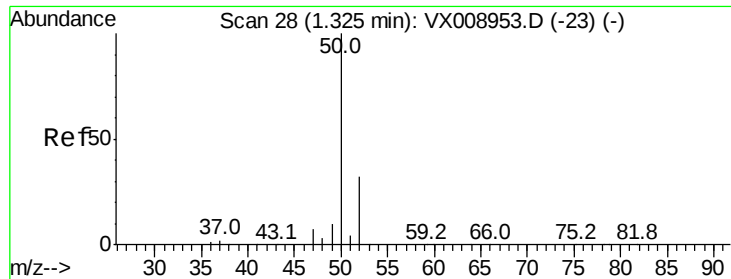
0

1.15 1.20 1.25

1.20



Time-->



#3

Chloromethane

Concen: 0.603 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 50 Resp: 1796

Ion Ratio Lower Upper

50 100

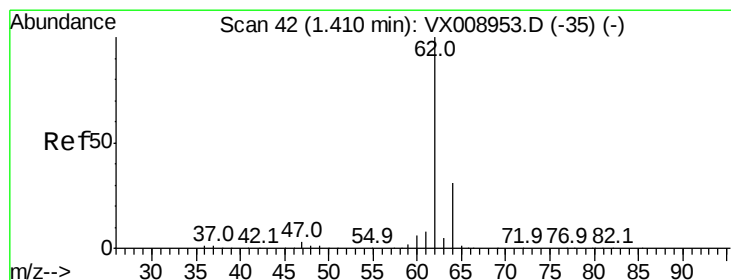
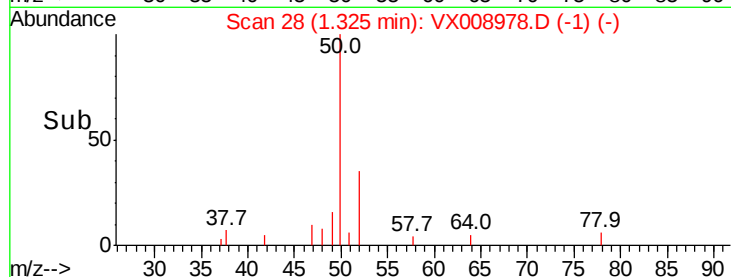
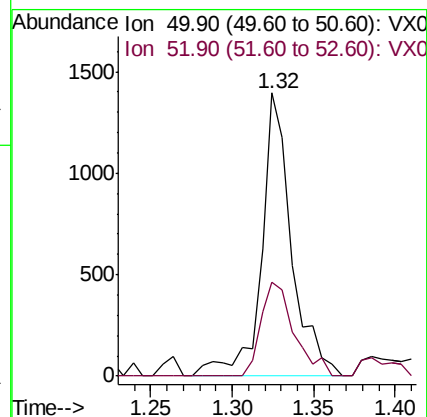
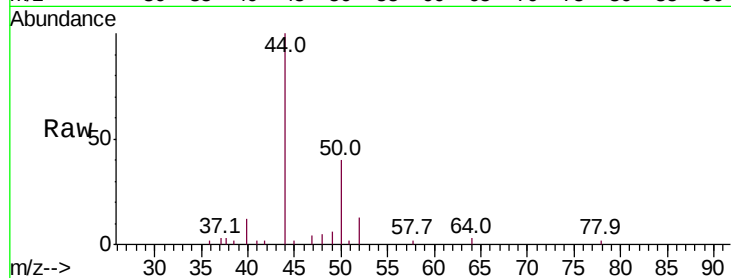
52 33.3 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

4/17/2019 9:58:47 AM



#4

Vinyl Chloride

Concen: 0.480 ug/l

RT: 1.40 min Scan# 41

Delta R.T. -0.01 min

Lab File: VX008978.D

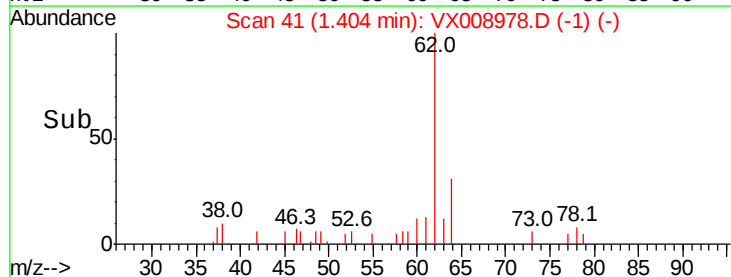
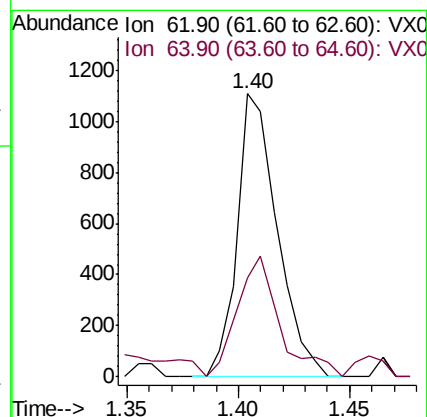
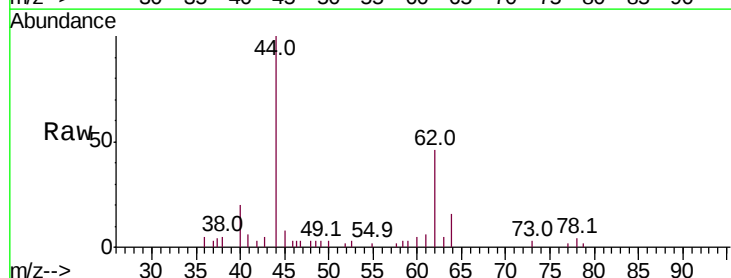
Acq: 16 Apr 2019 11:35

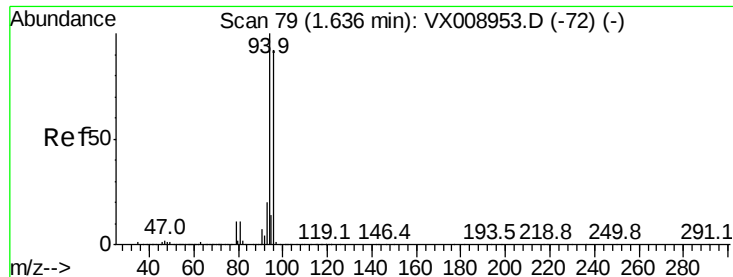
Tgt Ion: 62 Resp: 1390

Ion Ratio Lower Upper

62 100

64 35.1 25.0 37.4





#5

Bromomethane

Concen: 0.952 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 94 Resp: 1793

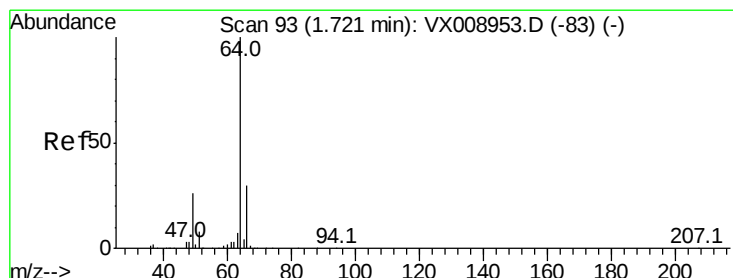
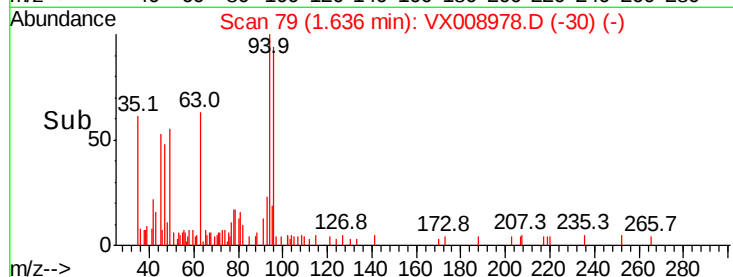
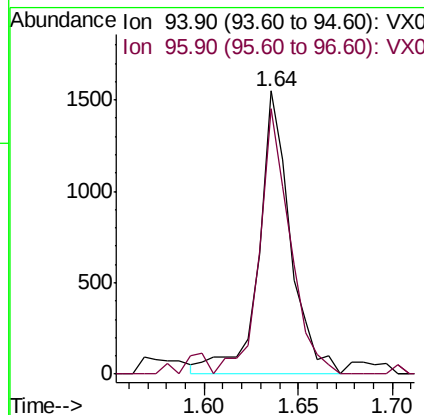
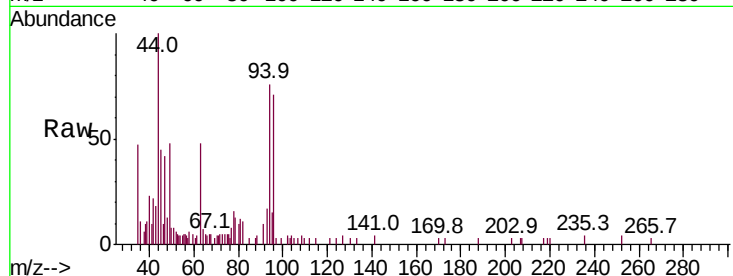
Ion Ratio Lower Upper

94 100

96 93.7 73.9 110.9

Manual Integrations
APPROVED

MMDadoda
4/17/2019 9:58:47 AM



#6

Chloroethane

Concen: 0.589 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.00 min

Lab File: VX008978.D

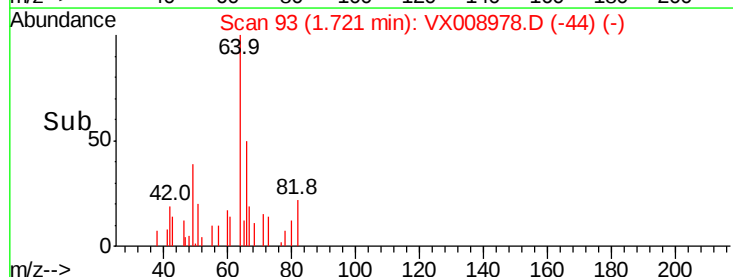
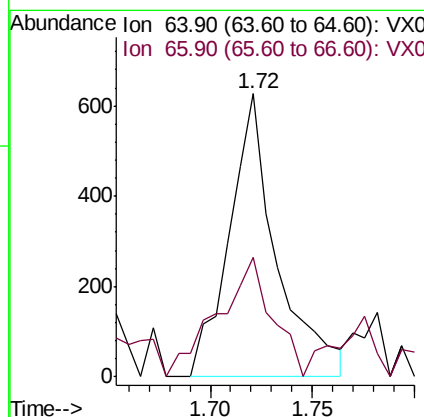
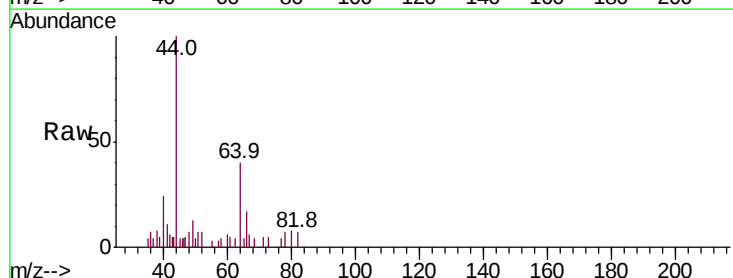
Acq: 16 Apr 2019 11:35

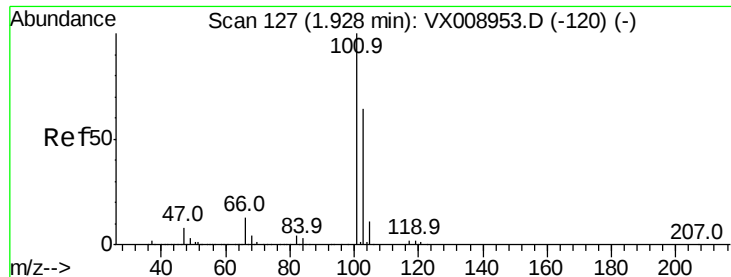
Tgt Ion: 64 Resp: 1004

Ion Ratio Lower Upper

64 100

66 33.7 24.2 36.2





#7

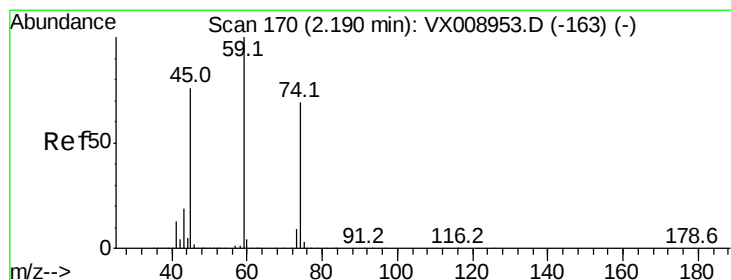
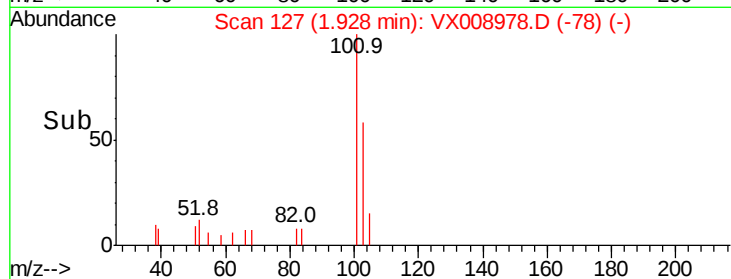
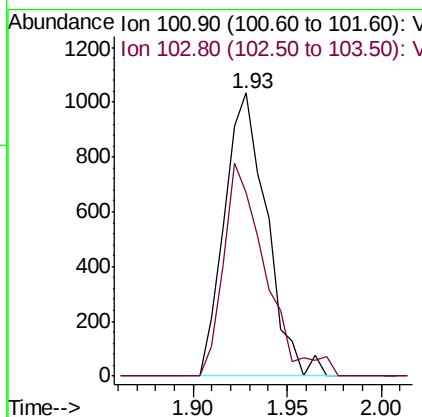
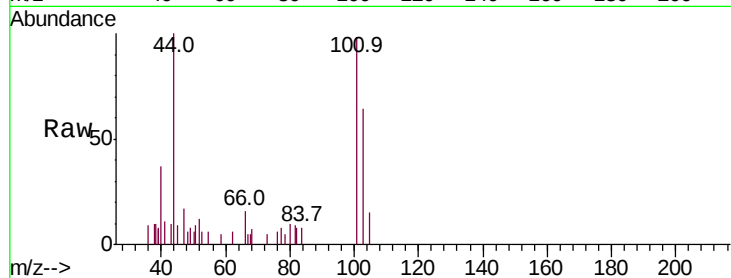
Trichlorofluoromethane
 Concen: 0.474 ug/l
 RT: 1.93 min Scan# 127
 Delta R.T. 0.00 min
 Lab File: VX008978.D
 Acq: 16 Apr 2019 11:35

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.0	51.0	76.6

Manual Integrations
 APPROVED

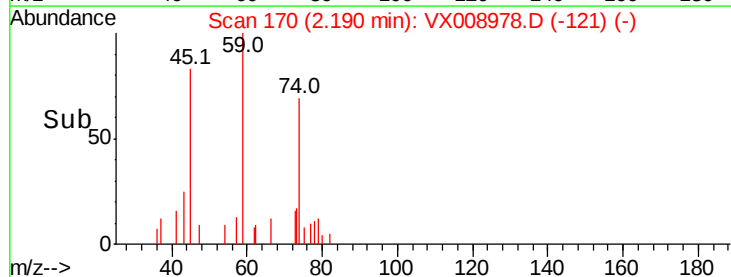
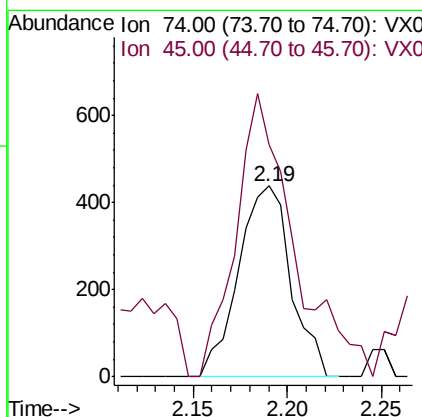
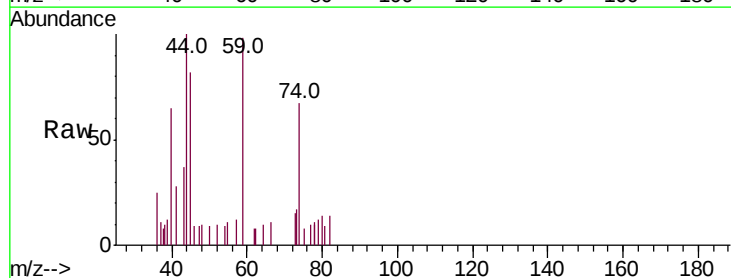
MMDadoda
 4/17/2019 9:58:47 AM

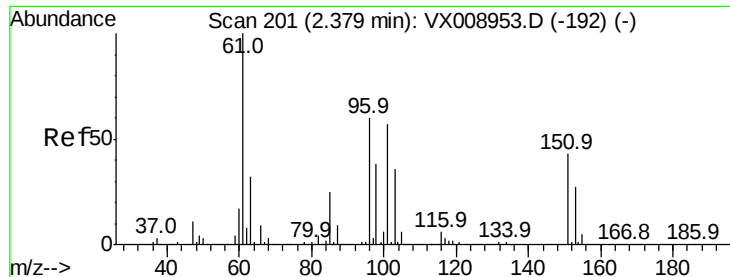


#8

Diethyl Ether
 Concen: 0.546 ug/l
 RT: 2.19 min Scan# 170
 Delta R.T. 0.00 min
 Lab File: VX008978.D
 Acq: 16 Apr 2019 11:35

Tgt Ion	Ratio	Lower	Upper
74	100		
45	164.5	54.9	164.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.473 ug/l

RT: 2.37 min Scan# 200

Delta R.T. -0.01 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

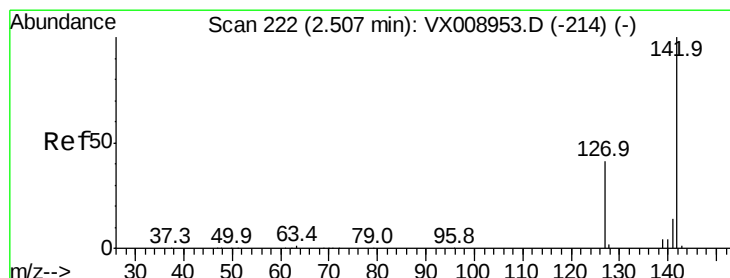
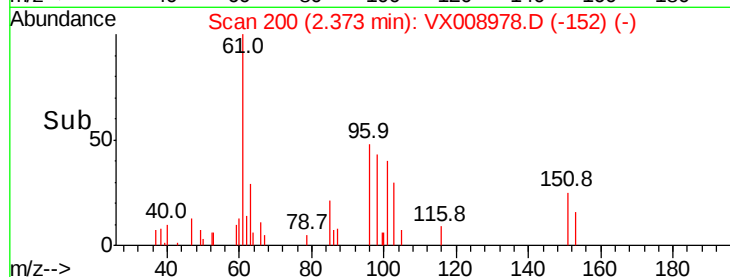
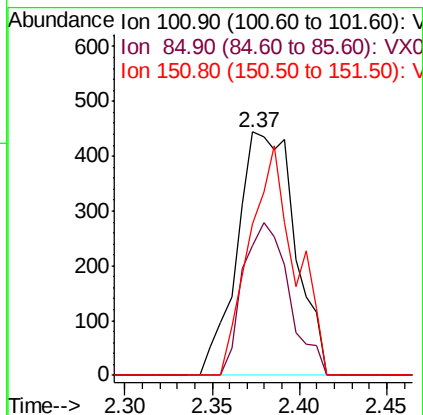
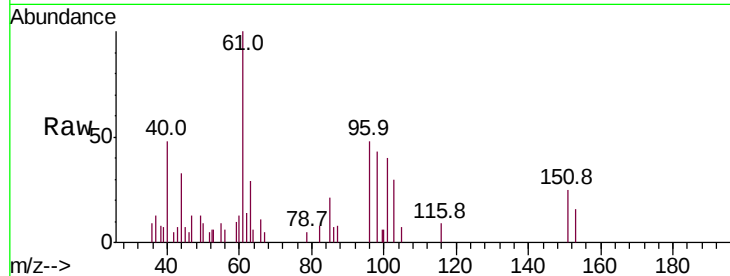
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	101	Resp:	1023
Ion Ratio	Lower	Upper	
101	100		
85	50.2	35.7	53.5
151	75.1	62.7	94.1

Manual Integrations
APPROVED

MMDadoda
4/17/2019 9:58:47 AM



#10

Methyl Iodide

Concen: 1.622 ug/l

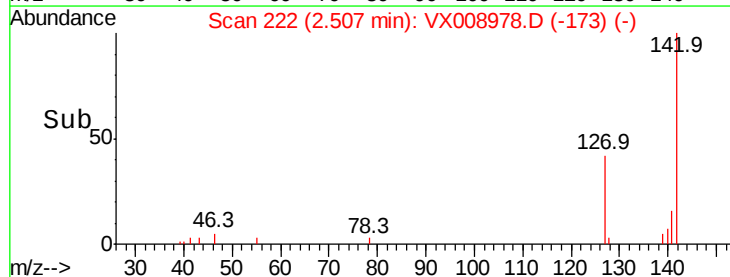
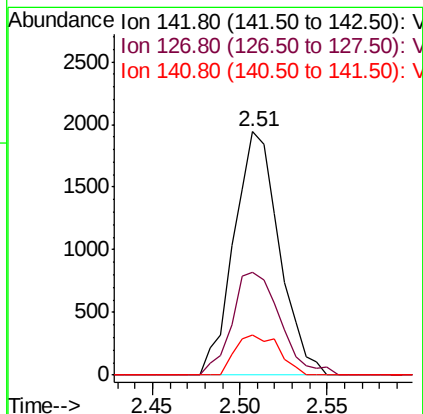
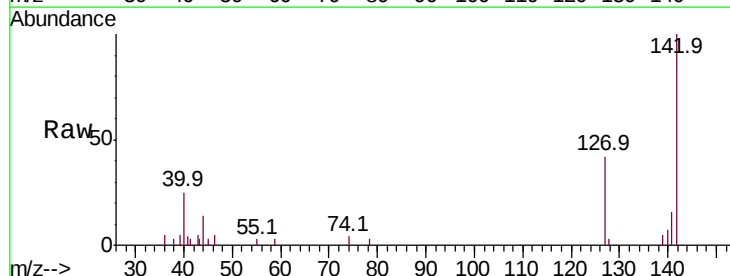
RT: 2.51 min Scan# 222

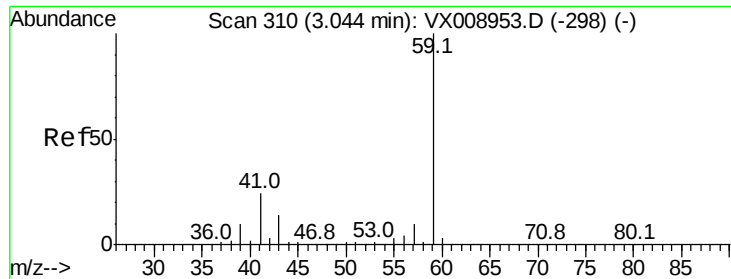
Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Tgt Ion:	142	Resp:	3492
Ion Ratio	Lower	Upper	
142	100		
127	45.1	32.8	49.2
141	16.0	11.4	17.2





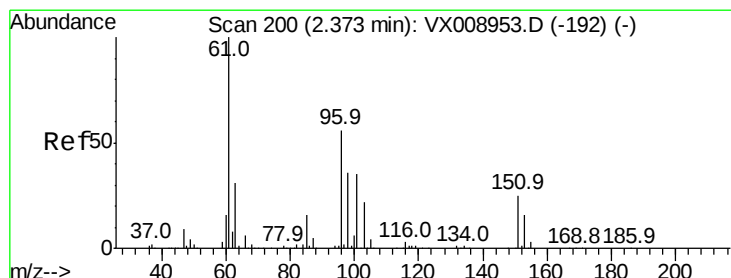
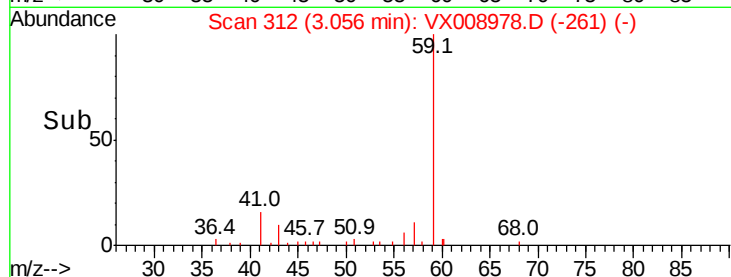
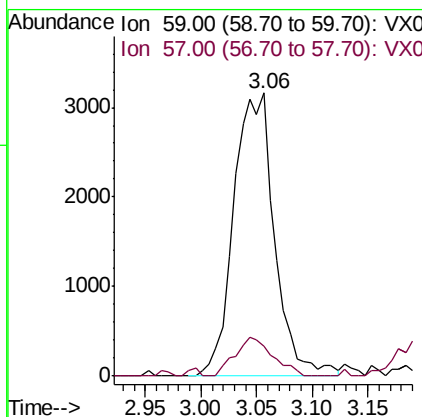
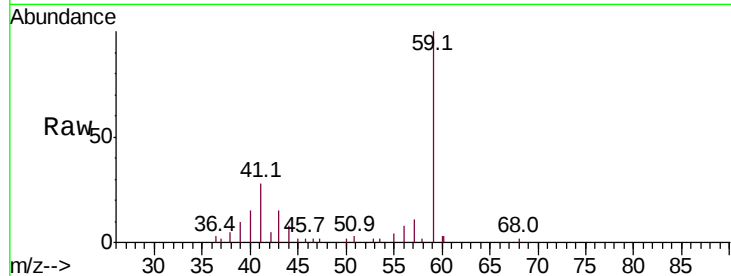
#11
Tert butyl alcohol
Concen: 12.201 ug/l
RT: 3.06 min Scan# 312
Delta R.T. 0.01 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
59	100		
57	12.7	8.4	12.6#

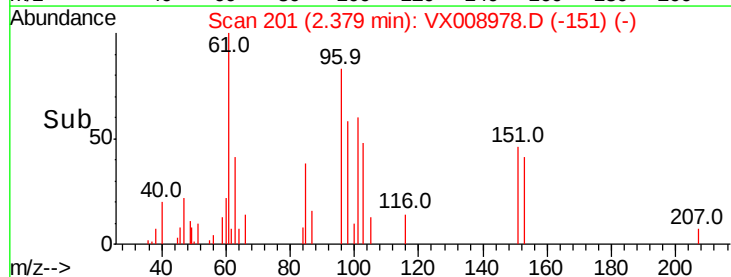
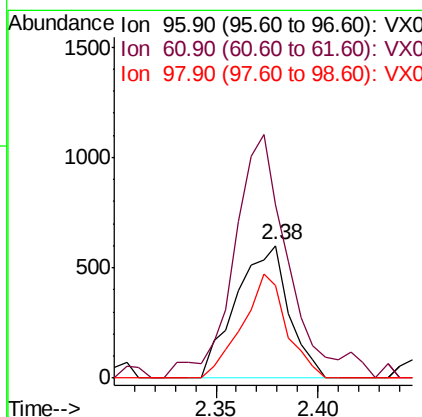
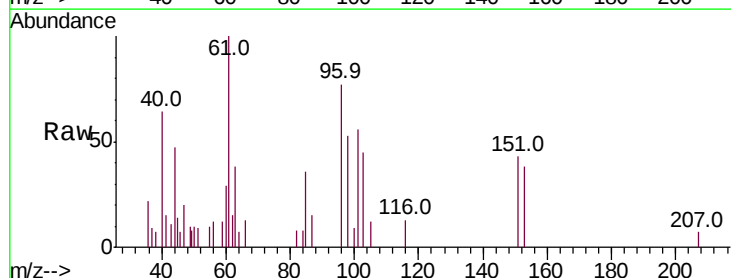
Manual Integrations
APPROVED

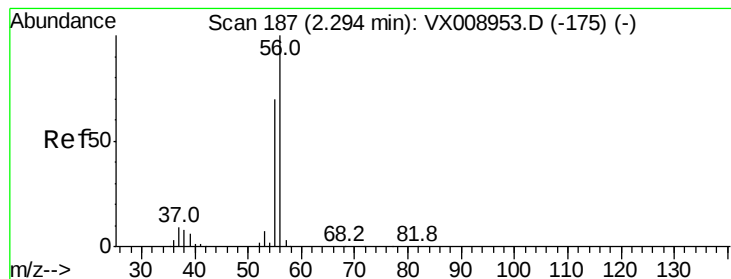
MMDadoda
4/17/2019 9:58:47 AM



#12
1,1-Dichloroethene
Concen: 0.479 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Tgt Ion	Ratio	Lower	Upper
96	100		
61	119.2	142.2	213.2#
98	69.6	50.9	76.3





#13

Acrolein

Concen: 9.537 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 56 Resp: 5429

Ion Ratio Lower Upper

56 100

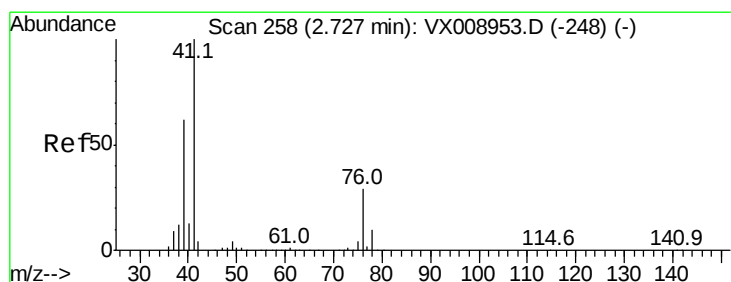
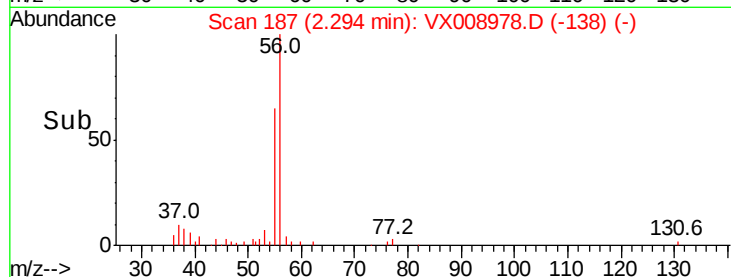
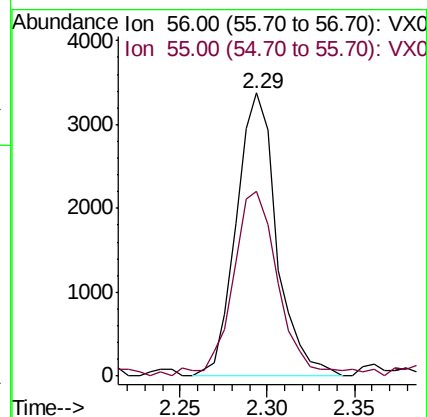
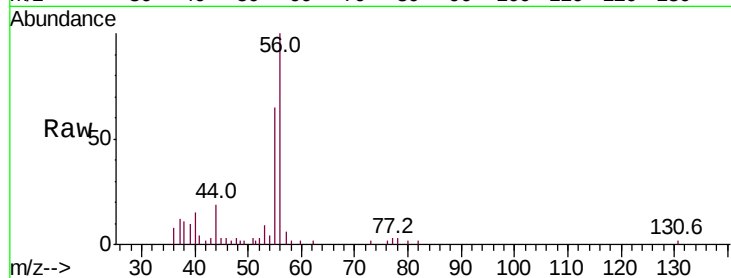
55 74.9 56.6 84.8

Manual Integrations

APPROVED

MMDadoda

4/17/2019 9:58:47 AM



#14

Allyl chloride

Concen: 0.507 ug/l

RT: 2.73 min Scan# 258

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

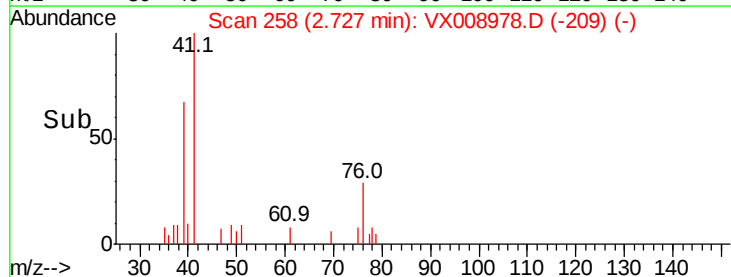
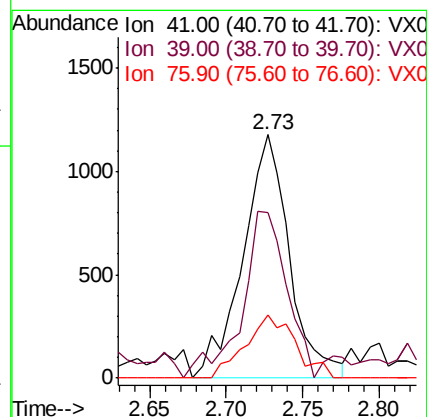
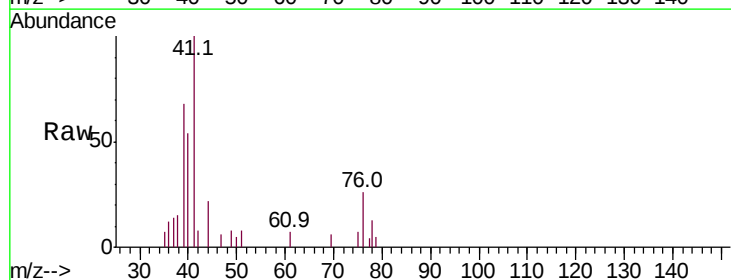
Tgt Ion: 41 Resp: 2498

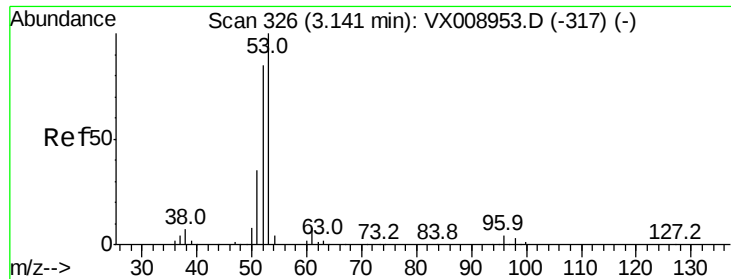
Ion Ratio Lower Upper

41 100

39 65.3 46.7 70.1

76 27.9 22.0 33.0





#15

Acrylonitrile

Concen: 2.436 ug/l

RT: 3.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

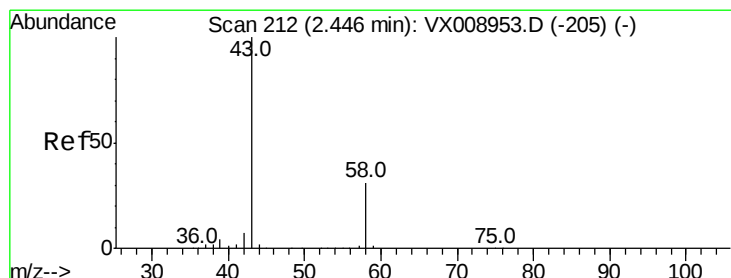
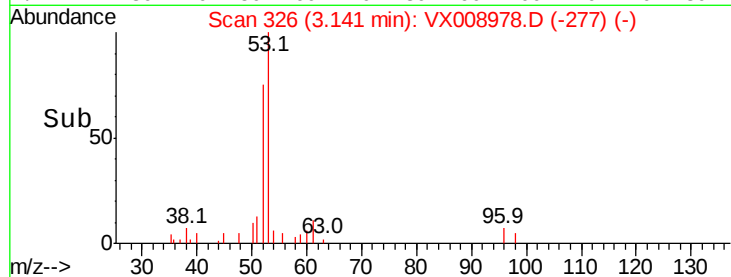
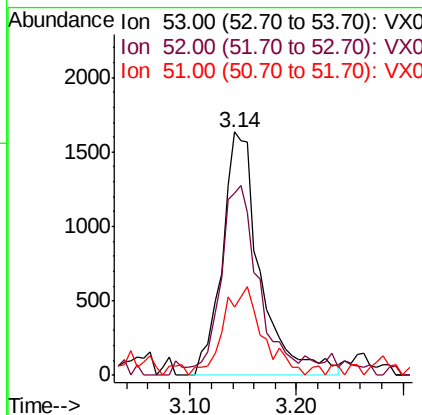
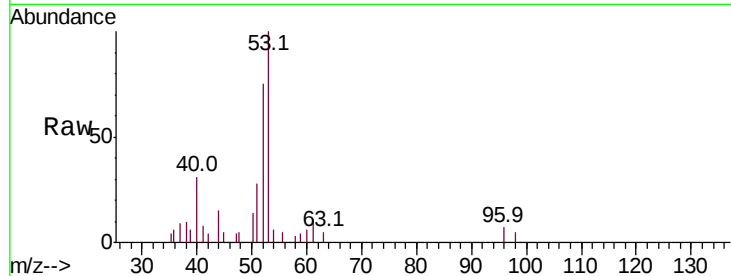
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	53	Resp:	4075
Ion	Ratio	Lower	Upper
53	100		
52	69.6	66.6	100.0
51	37.6	28.3	42.5

Manual Integrations
APPROVED

MMDadoda
4/17/2019 9:58:47 AM



#16

Acetone

Concen: 2.723 ug/l

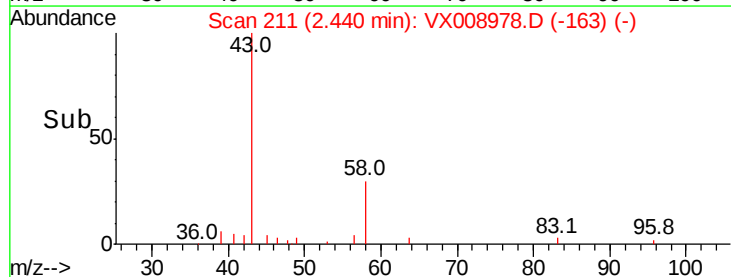
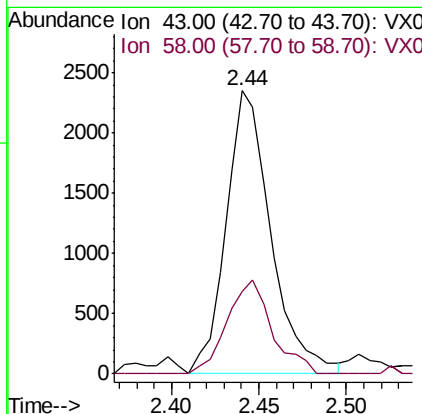
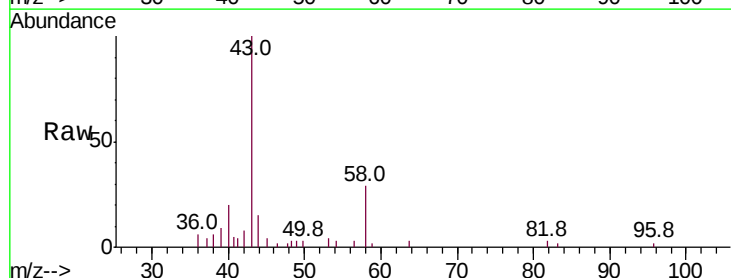
RT: 2.44 min Scan# 211

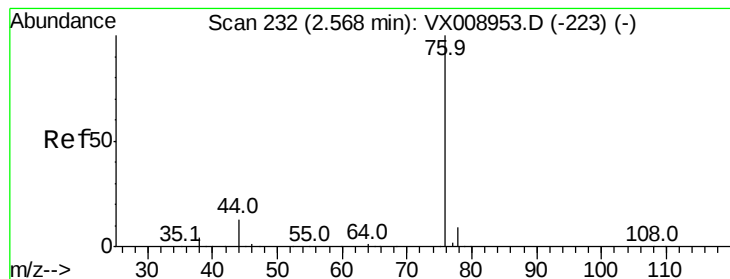
Delta R.T. -0.01 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Tgt Ion:	43	Resp:	4192
Ion	Ratio	Lower	Upper
43	100		
58	29.1	24.8	37.2





#17

Carbon Disulfide

Concen: 0.498 ug/l

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 76 Resp: 3494

Ion Ratio Lower Upper

76 100

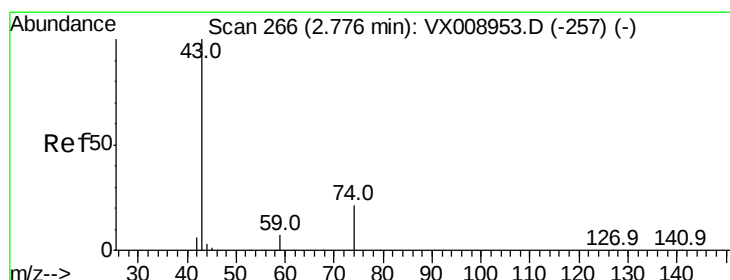
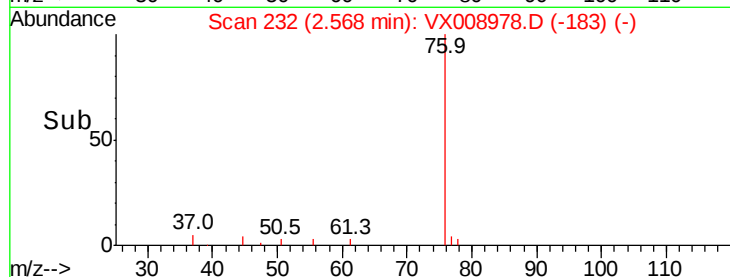
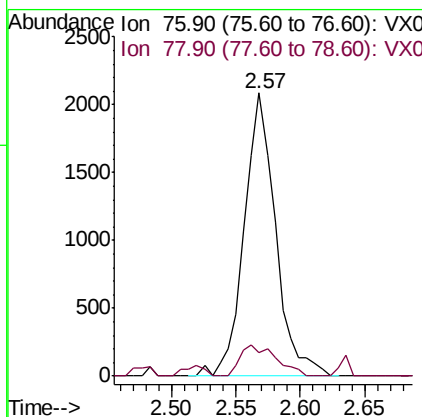
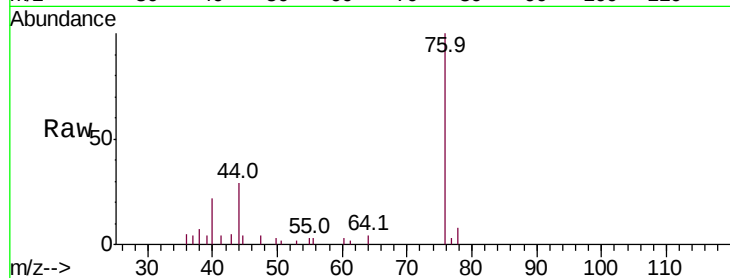
78 5.9 7.2 10.8#

Manual Integrations

APPROVED

MMDadoda

4/17/2019 9:58:47 AM



#18

Methyl Acetate

Concen: 0.613 ug/l

RT: 2.77 min Scan# 265

Delta R.T. -0.01 min

Lab File: VX008978.D

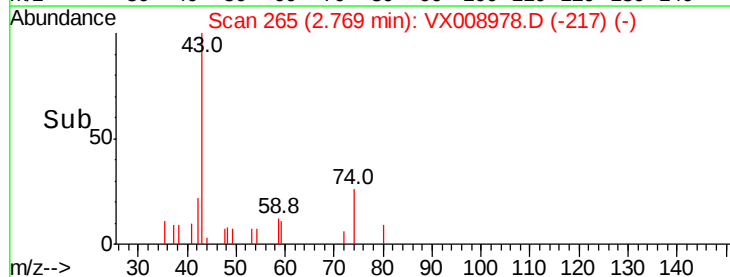
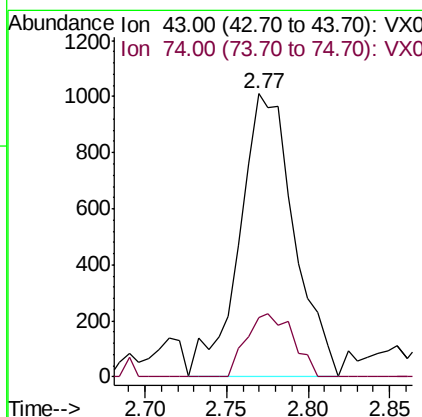
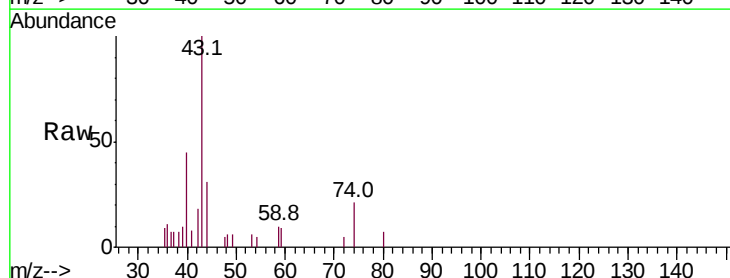
Acq: 16 Apr 2019 11:35

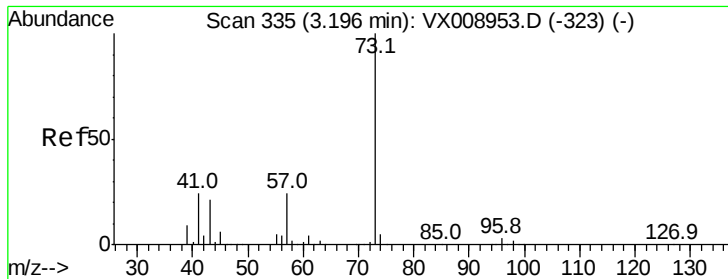
Tgt Ion: 43 Resp: 2354

Ion Ratio Lower Upper

43 100

74 19.1 16.6 25.0





#19

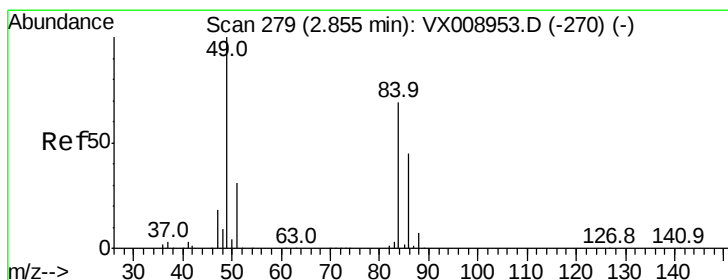
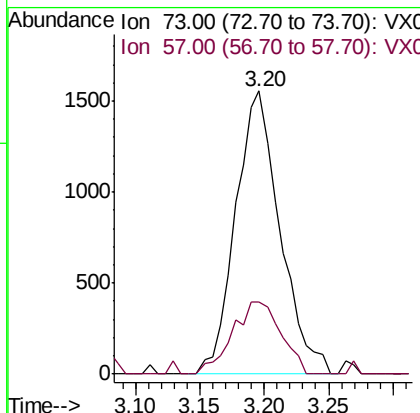
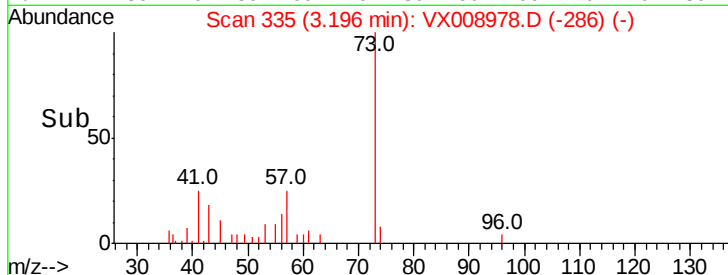
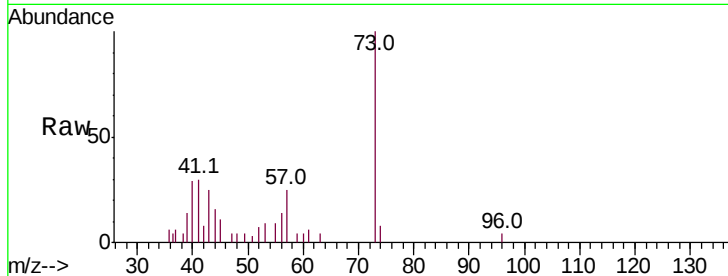
Methyl tert-butyl Ether
 Concen: 0.462 ug/l
 RT: 3.20 min Scan# 335
 Delta R.T. 0.00 min
 Lab File: VX008978.D
 Acq: 16 Apr 2019 11:35

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion: 73 Resp: 3719
 Ion Ratio Lower Upper
 73 100
 57 25.5 19.2 28.8

Manual Integrations
 APPROVED

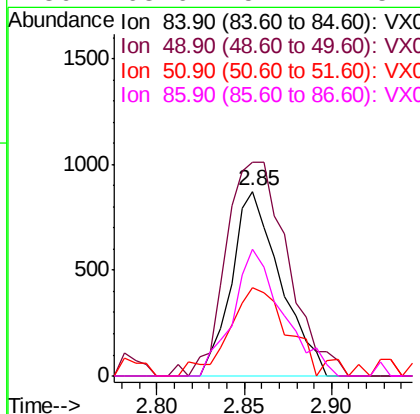
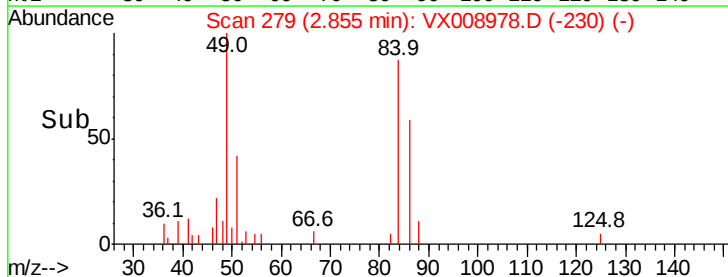
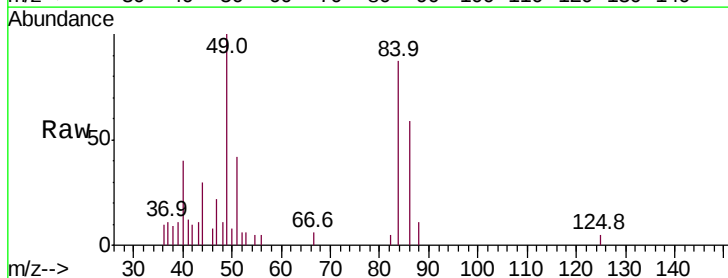
MMDadoda
 4/17/2019 9:58:47 AM

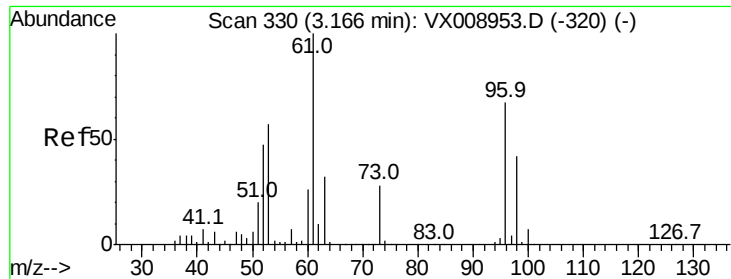


#20

Methylene Chloride
 Concen: 0.645 ug/l
 RT: 2.85 min Scan# 279
 Delta R.T. 0.00 min
 Lab File: VX008978.D
 Acq: 16 Apr 2019 11:35

Tgt Ion: 84 Resp: 1697
 Ion Ratio Lower Upper
 84 100
 49 115.6 115.4 173.0
 51 40.4 35.8 53.6
 86 68.6 52.1 78.1





#21

trans-1,2-Dichloroethene

Concen: 0.568 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

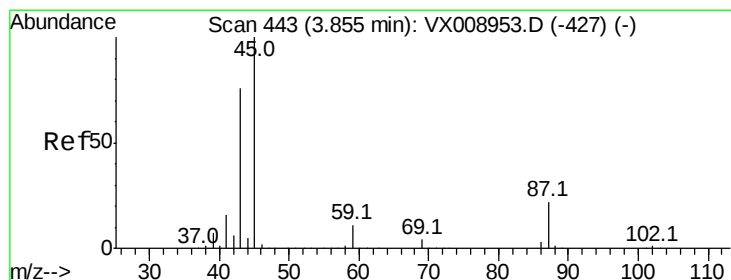
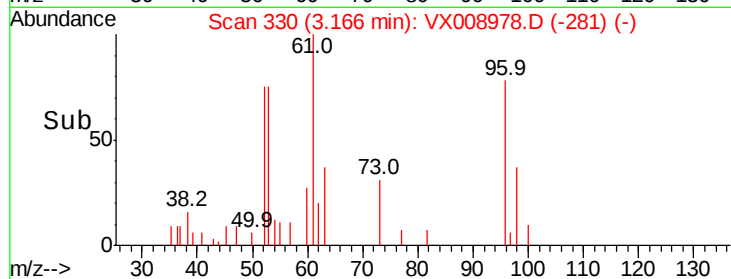
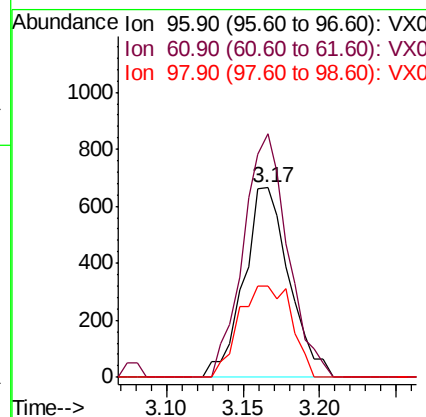
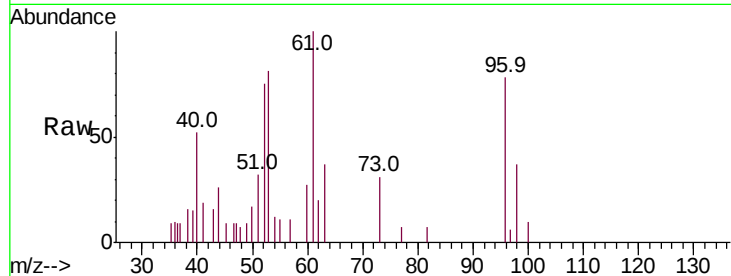
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	96	Resp:	1368
Ion	Ratio	Lower	Upper
96	100		
61	128.4	120.3	180.5
98	48.0	50.2	75.2#

Manual Integrations
APPROVED

MMDadoda
4/17/2019 9:58:47 AM



#22

Diisopropyl ether

Concen: 0.490 ug/l

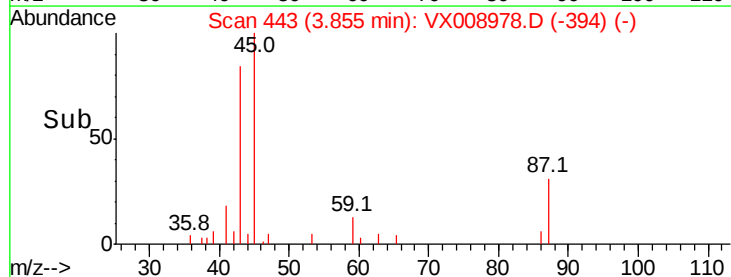
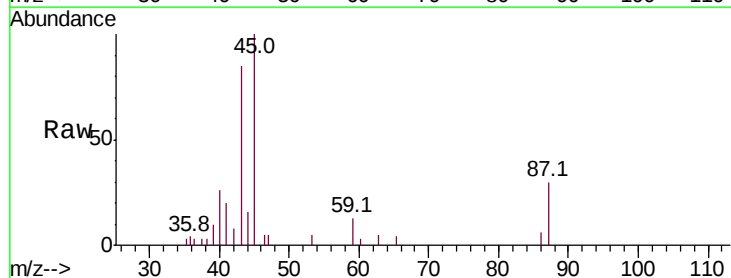
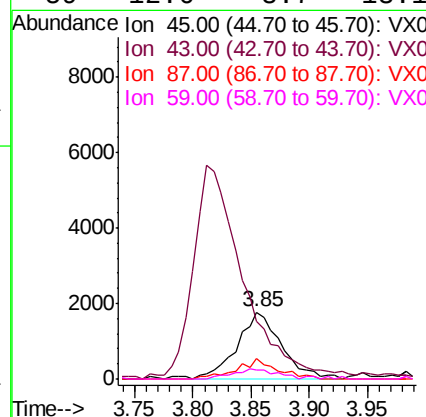
RT: 3.85 min Scan# 443

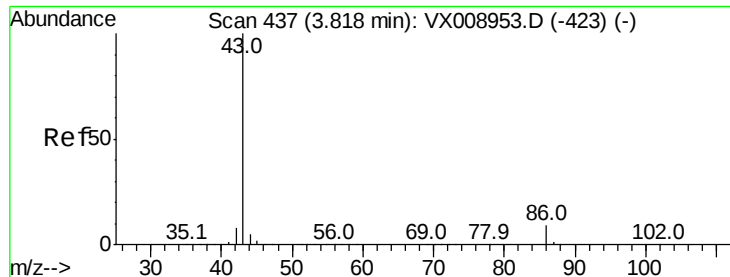
Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Tgt Ion:	45	Resp:	4688
Ion	Ratio	Lower	Upper
45	100		
43	73.8	60.6	91.0
87	30.2	17.8	26.8#
59	12.6	8.7	13.1





#23

Vinyl Acetate

Concen: 2.021 ug/l

RT: 3.81 min Scan# 436

Delta R.T. -0.01 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 43 Resp: 17013

Ion Ratio Lower Upper

43 100

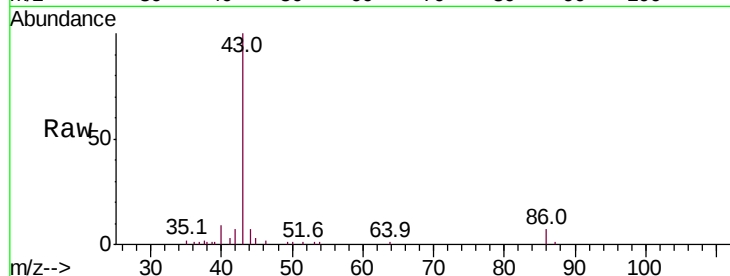
86 7.1 7.1 10.7#

Manual Integrations

APPROVED

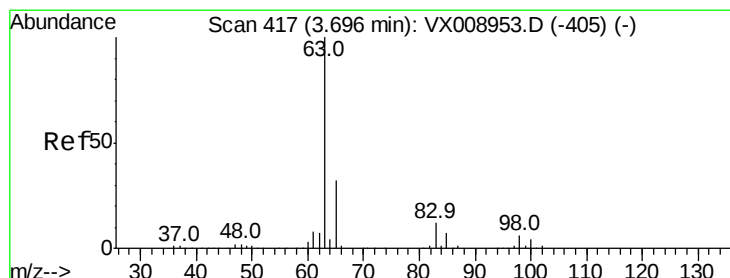
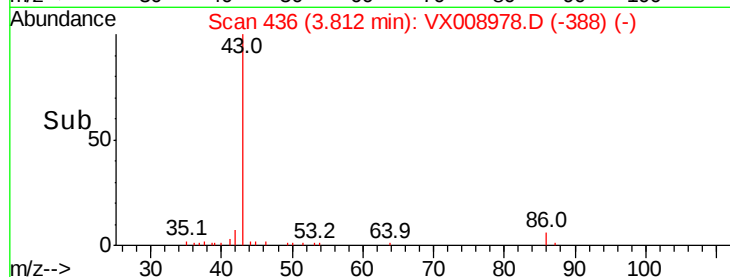
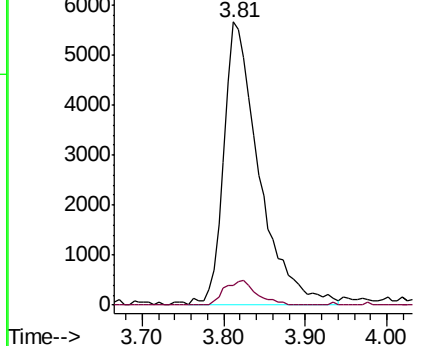
MMDadoda

4/17/2019 9:58:47 AM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0



#24

1,1-Dichloroethane

Concen: 0.521 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

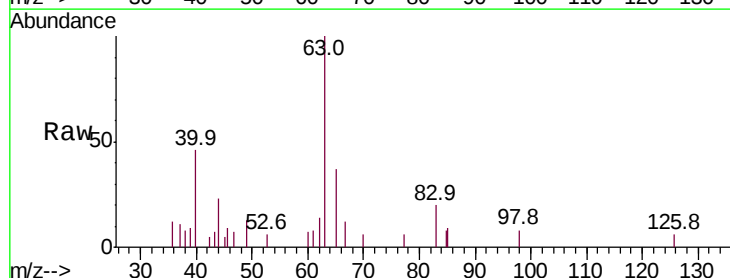
Tgt Ion: 63 Resp: 2506

Ion Ratio Lower Upper

63 100

98 8.3 3.1 9.3

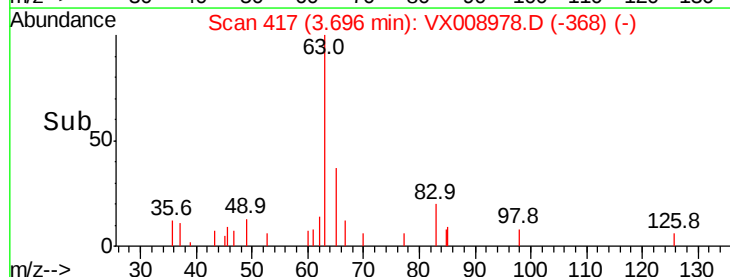
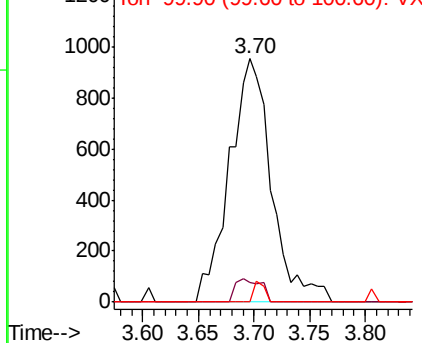
100 0.0 1.9 5.7#

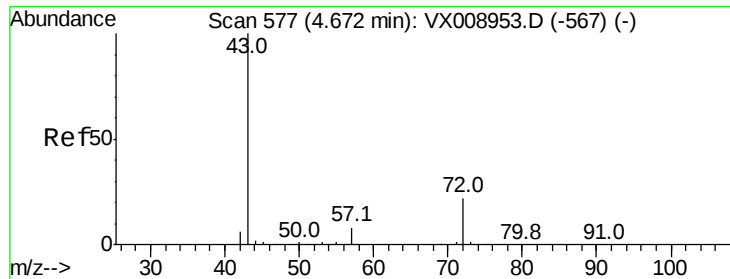


Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0





#25

2-Butanone

Concen: 2.350 ug/l

RT: 4.68 min Scan# 579

Delta R.T. 0.01 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 43 Resp: 5783

Ion Ratio Lower Upper

43 100

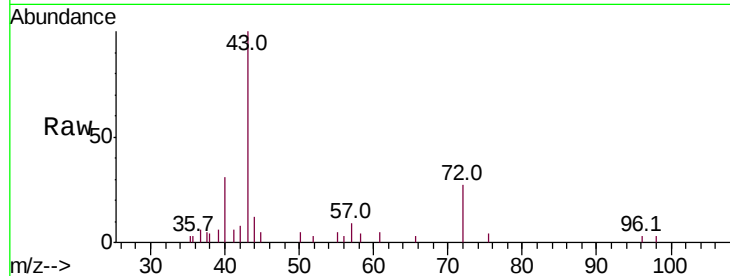
72 27.2 17.5 26.3#

Manual Integrations

APPROVED

MMDadoda

4/17/2019 9:58:47 AM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

4.68

1500

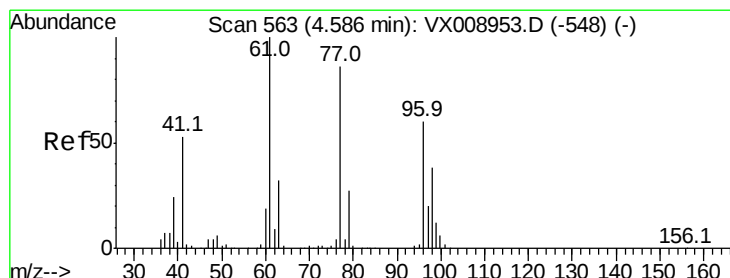
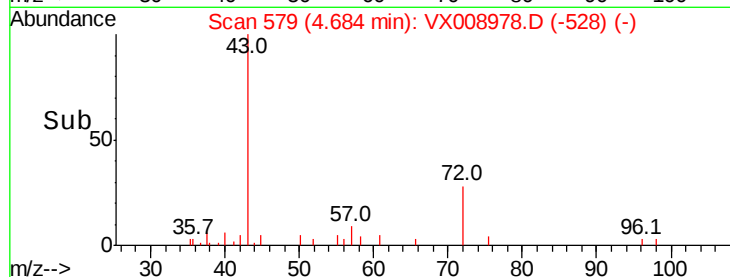
1000

500

0

4.60 4.70 4.80

Time-->



#26

2,2-Dichloropropane

Concen: 0.448 ug/l

RT: 4.59 min Scan# 564

Delta R.T. 0.01 min

Lab File: VX008978.D

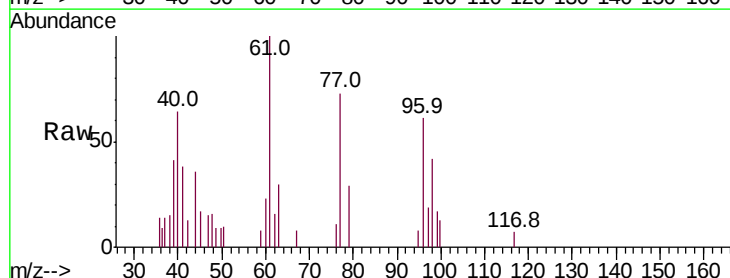
Acq: 16 Apr 2019 11:35

Tgt Ion: 77 Resp: 1615

Ion Ratio Lower Upper

77 100

97 27.5 11.7 35.0



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0

4.59

500

400

300

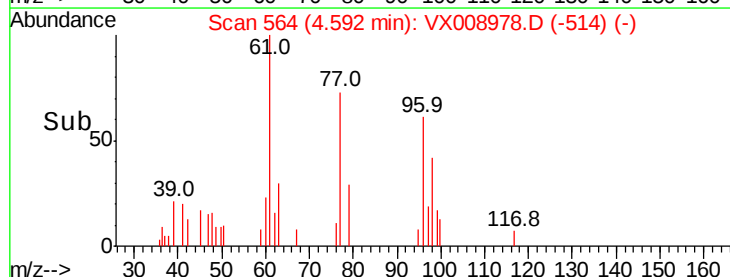
200

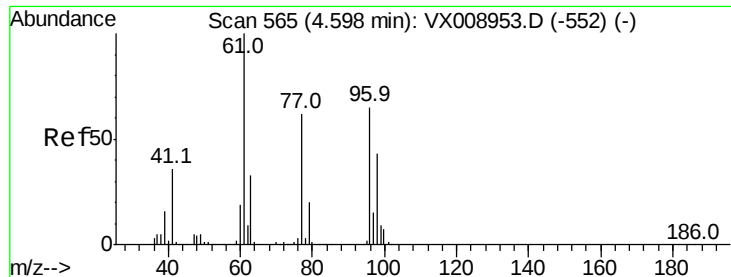
100

0

4.50 4.55 4.60 4.65

Time-->





#27

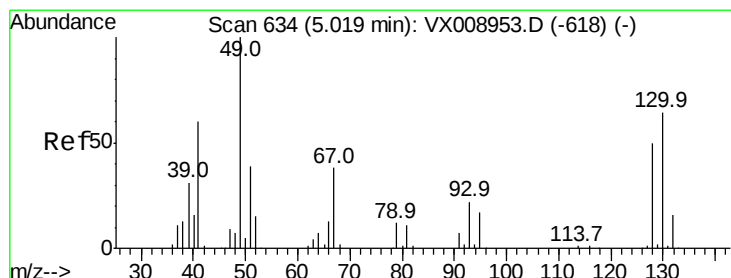
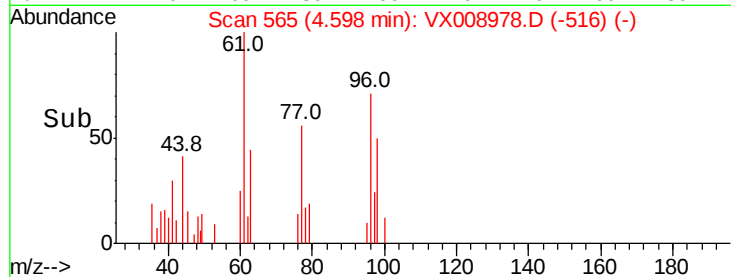
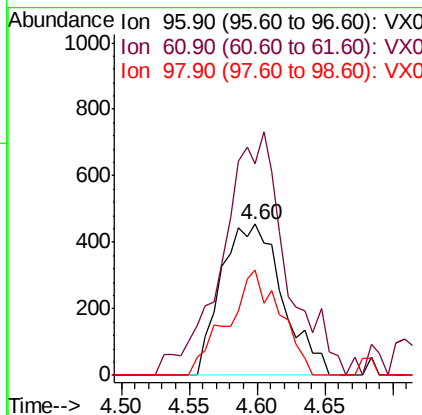
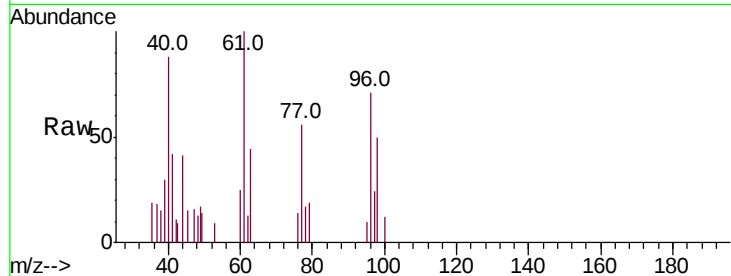
cis-1,2-Dichloroethene
Concen: 0.524 ug/l
RT: 4.60 min Scan# 565
Delta R.T. 0.00 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	166.3	0.0	322.0
98	60.0	0.0	128.4

Manual Integrations
APPROVED

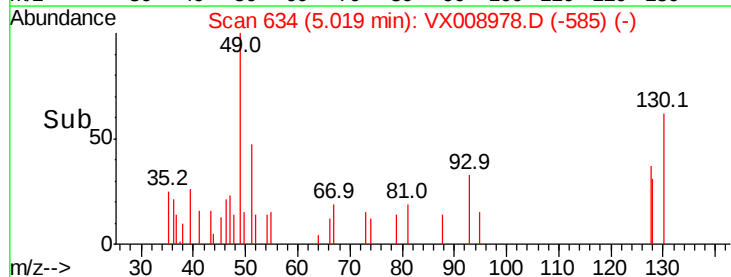
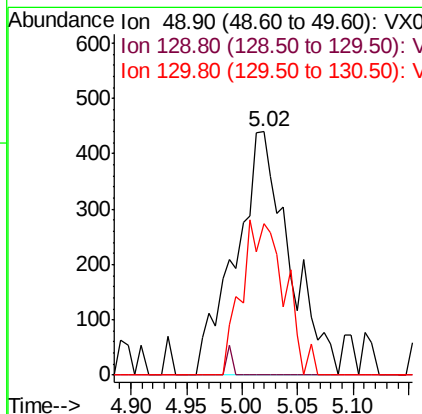
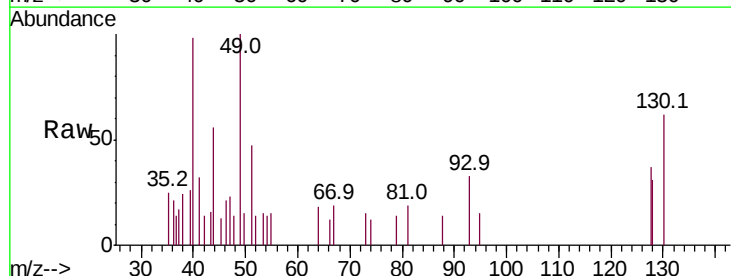
MMDadoda
4/17/2019 9:58:47 AM

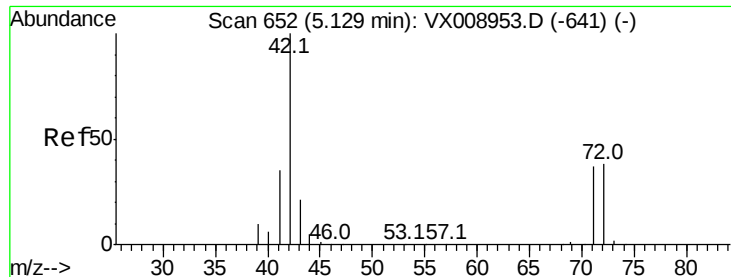


#28

Bromochloromethane
Concen: 0.664 ug/l
RT: 5.02 min Scan# 634
Delta R.T. 0.00 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	3.6
130	50.8	50.4	75.6





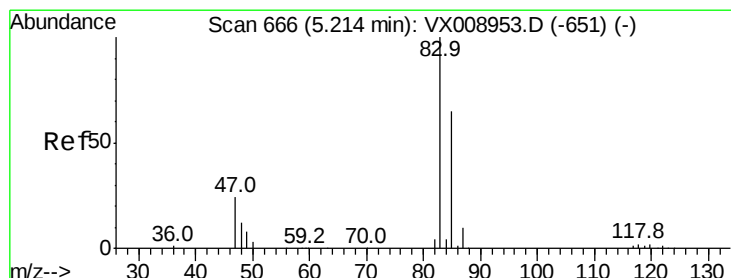
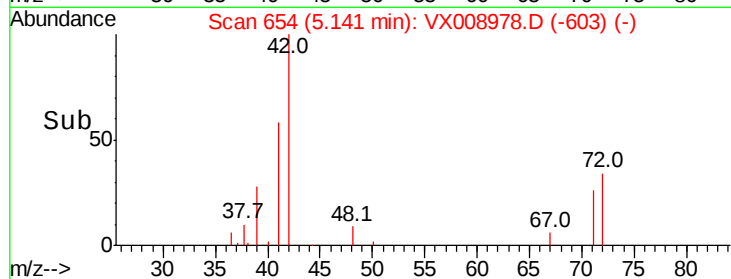
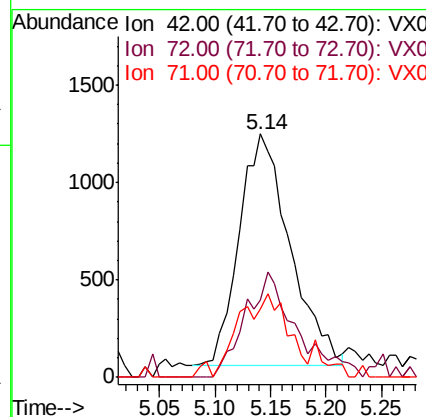
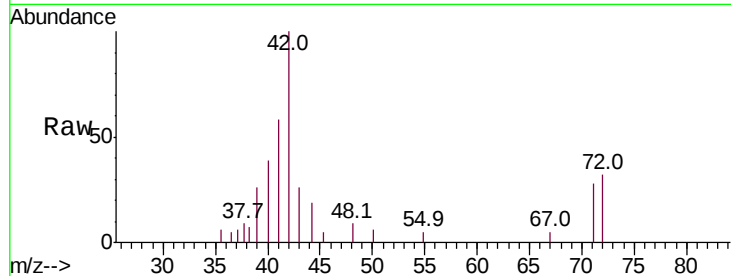
#29
Tetrahydrofuran
Concen: 2.281 ug/l
RT: 5.14 min Scan# 654
Delta R.T. 0.01 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.7	30.6	45.8
71	13.8	28.8	43.2#

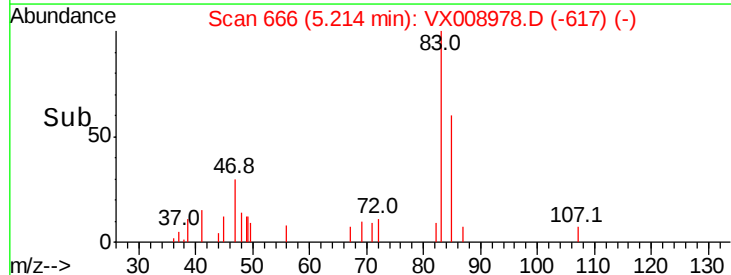
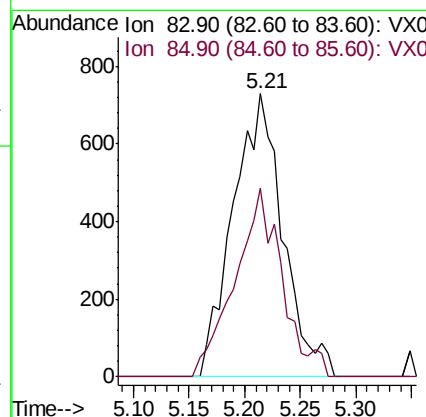
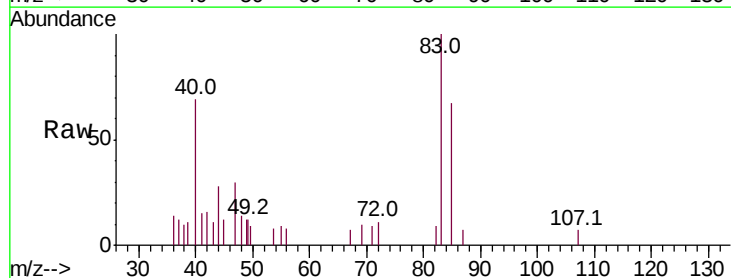
Manual Integrations
APPROVED

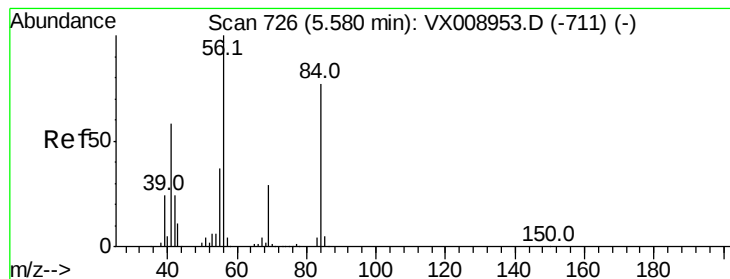
MMDadoda
4/17/2019 9:58:47 AM



#30
Chloroform
Concen: 0.528 ug/l
RT: 5.21 min Scan# 666
Delta R.T. 0.00 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.7	51.9	77.9





#31

Cyclohexane

Concen: 0.474 ug/l

RT: 5.58 min Scan# 726

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 56 Resp: 2239

Ion Ratio Lower Upper

56 100

69 38.7 23.3 34.9#

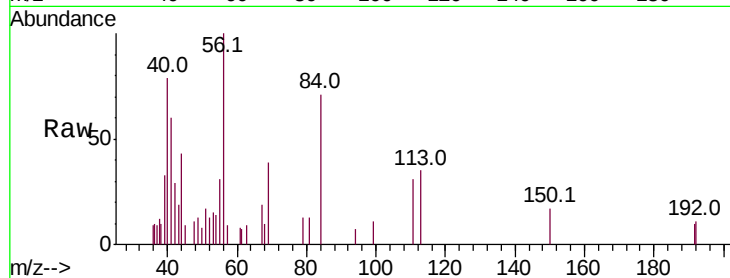
84 71.5 61.7 92.5

Manual Integrations

APPROVED

MMDadoda

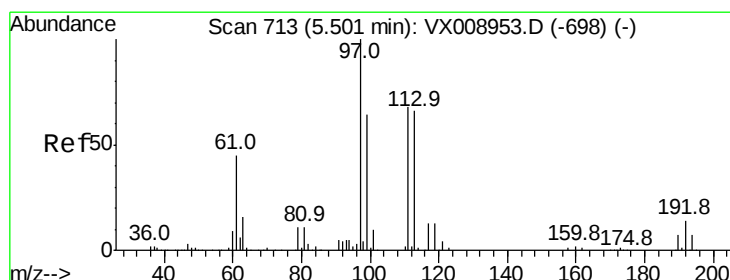
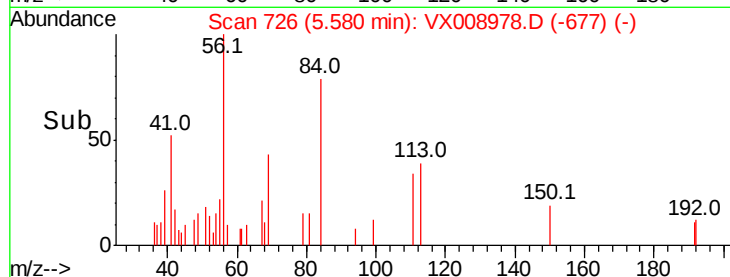
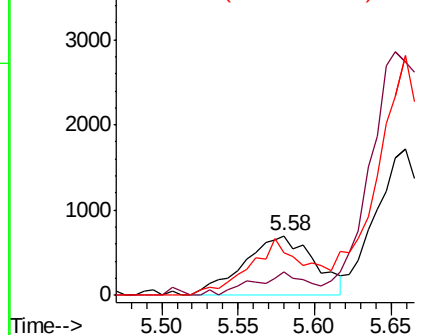
4/17/2019 9:58:47 AM



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#32

1,1,1-Trichloroethane

Concen: 0.521 ug/l

RT: 5.49 min Scan# 711

Delta R.T. -0.01 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

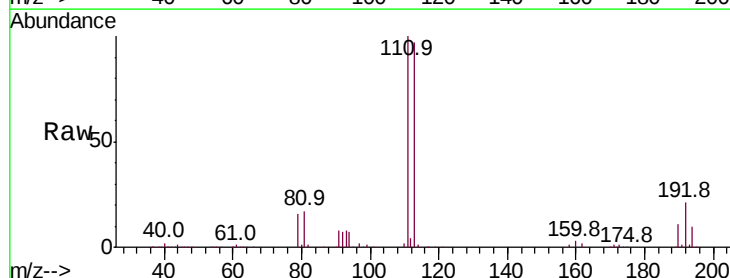
Tgt Ion: 97 Resp: 1857

Ion Ratio Lower Upper

97 100

99 0.0 51.6 77.4#

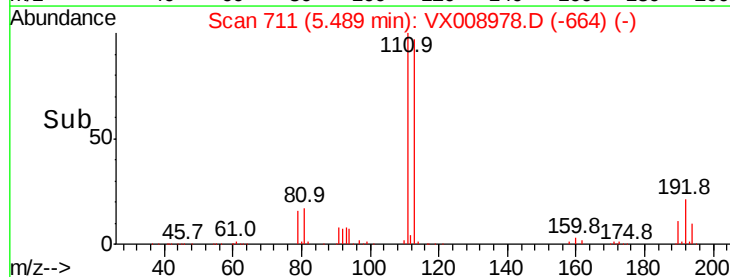
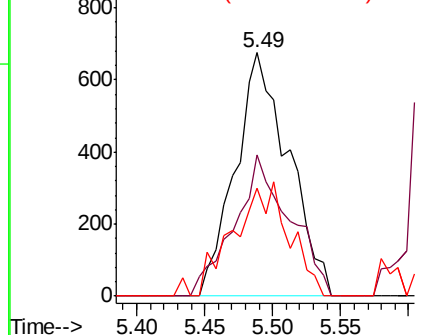
61 48.2 37.9 56.9

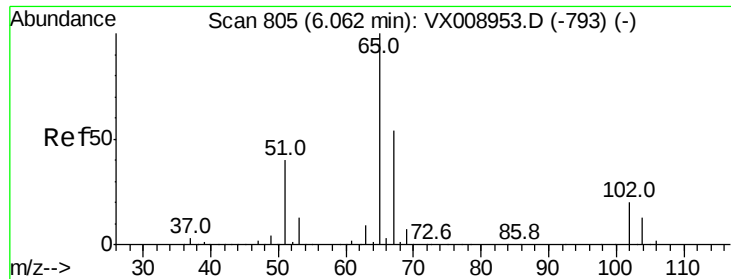


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0





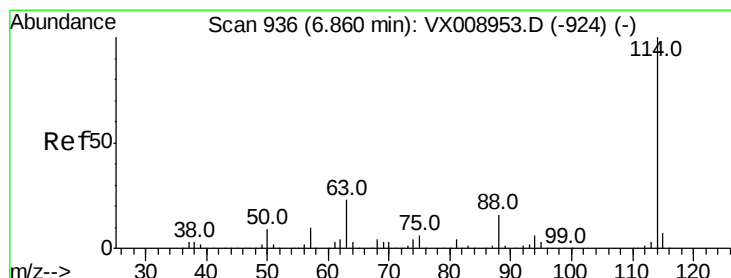
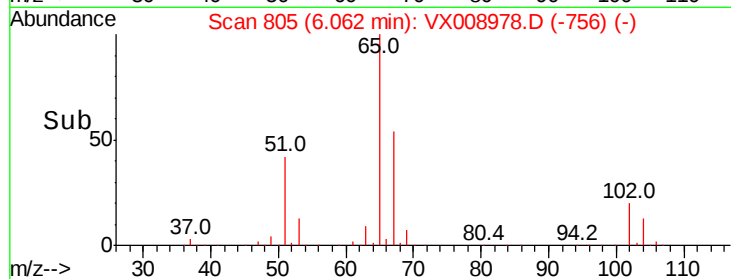
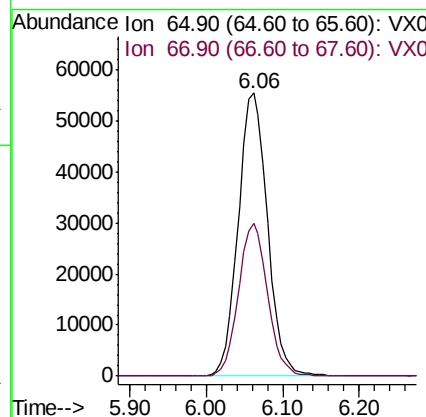
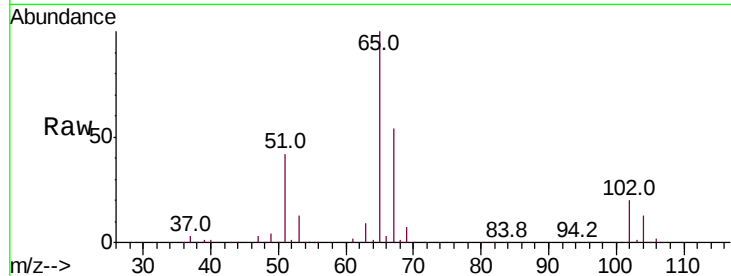
#33
 1,2-Dichloroethane-d4
 Concen: 49.467 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX008978.D
 Acq: 16 Apr 2019 11:35

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.8	0.0	108.6

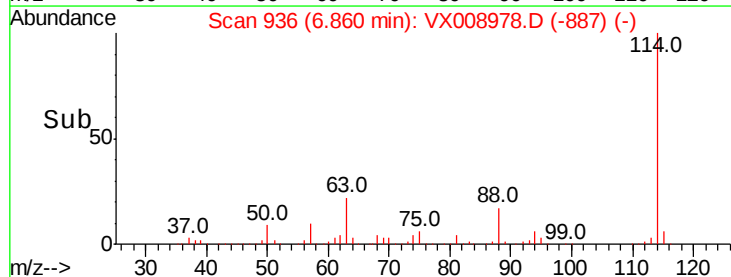
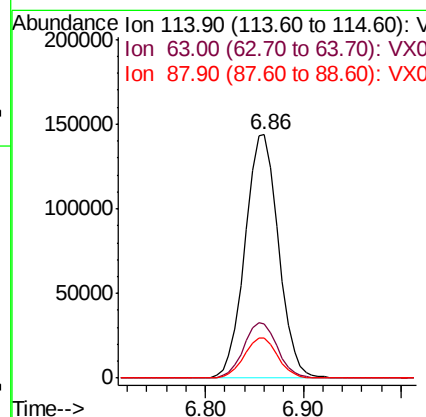
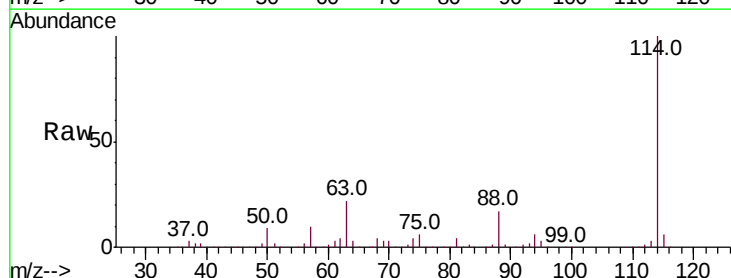
Manual Integrations
 APPROVED

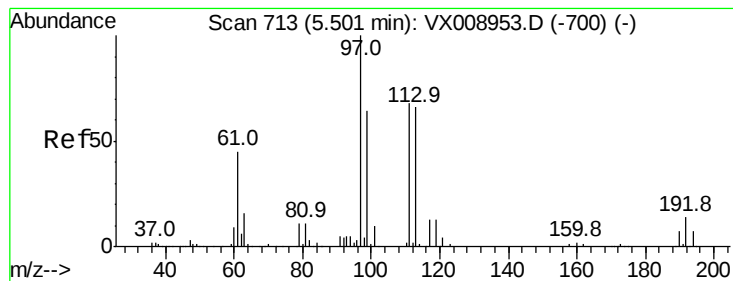
MMDadoda
 4/17/2019 9:58:47 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008978.D
 Acq: 16 Apr 2019 11:35

Tgt Ion	Ratio	Lower	Upper
114	100		
63	22.4	0.0	46.0
88	16.5	0.0	32.6





#35

Dibromofluoromethane

Concen: 47.908 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

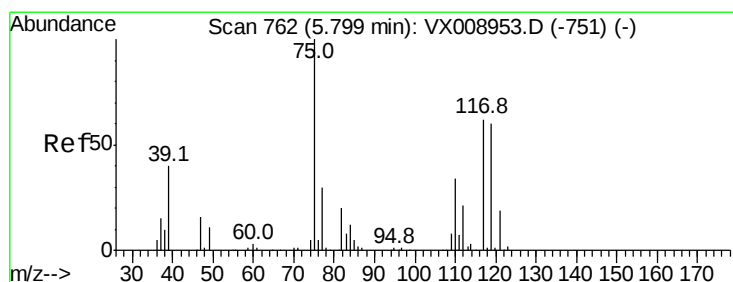
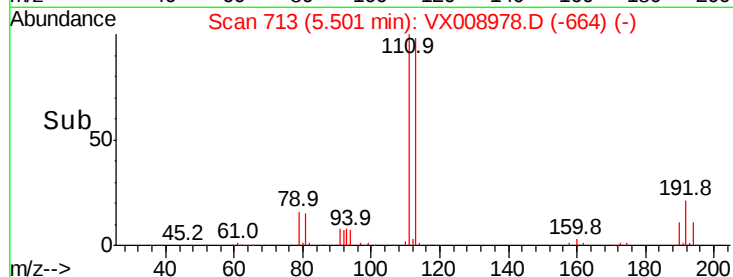
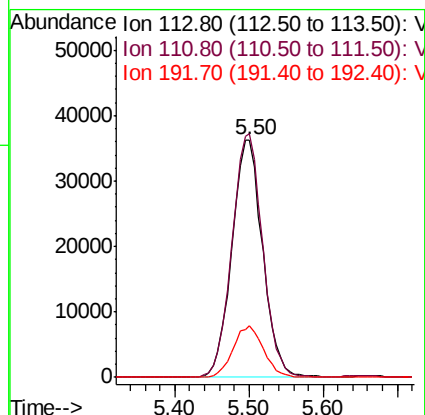
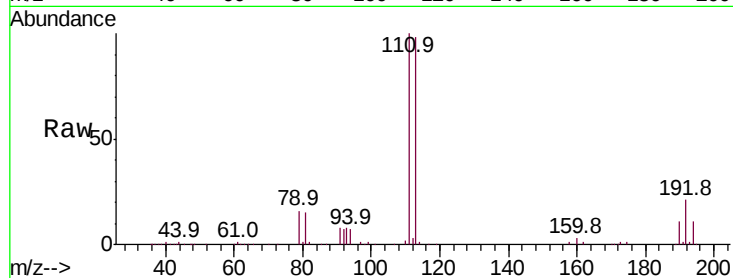
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	113	Resp:	105014
Ion Ratio	Lower	Upper	
113	100		
111	102.1	82.9	124.3
192	21.5	17.4	26.0

Manual Integrations
APPROVED

MMDadoda
4/17/2019 9:58:47 AM



#36

1,1-Dichloropropene

Concen: 0.511 ug/l

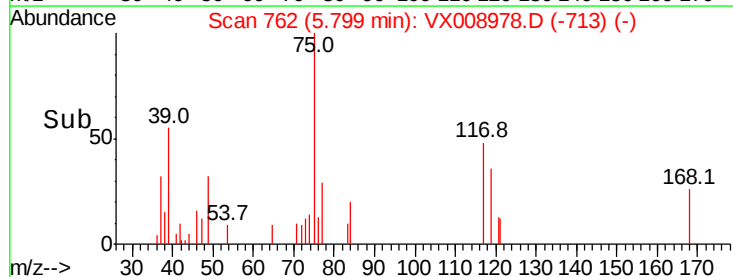
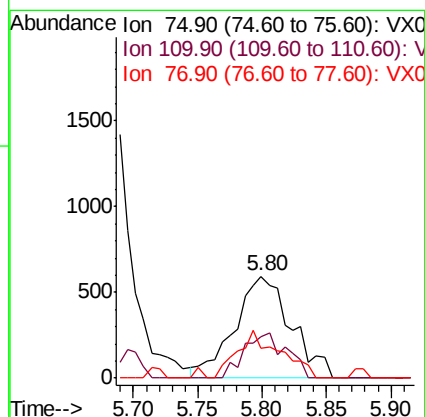
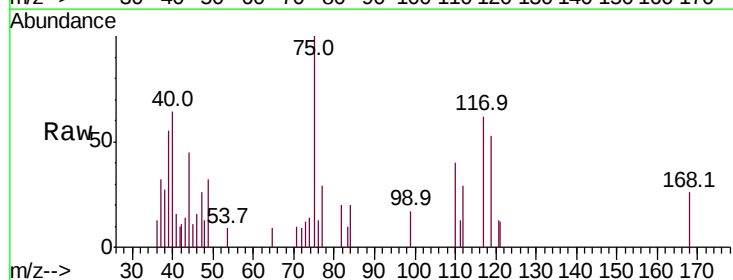
RT: 5.80 min Scan# 762

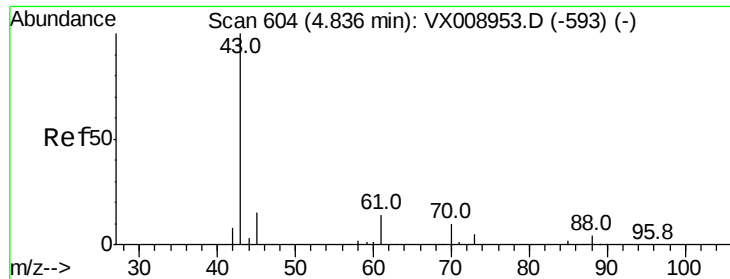
Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Tgt Ion:	75	Resp:	1806
Ion Ratio	Lower	Upper	
75	100		
110	33.2	16.9	50.7
77	35.5	25.0	37.4





#37

Ethyl Acetate

Concen: 0.381 ug/l

RT: 4.84 min Scan# 604

Delta R.T. 0.00 min

Lab File: VX008978.D

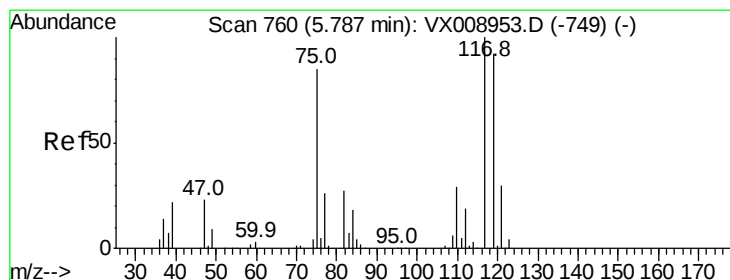
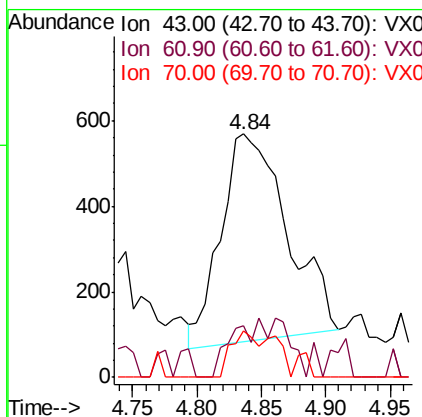
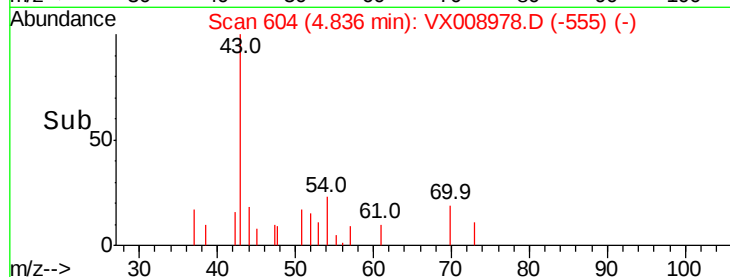
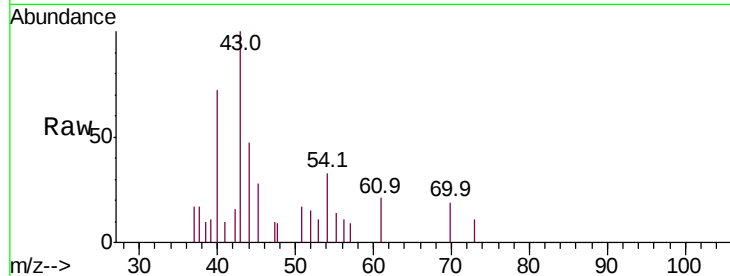
Acq: 16 Apr 2019 11:35

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	9.9	10.6	15.8#
70	9.1	7.7	11.5

Manual Integrations
APPROVED

MMDadoda
4/17/2019 9:58:47 AM



#38

Carbon Tetrachloride

Concen: 0.458 ug/l

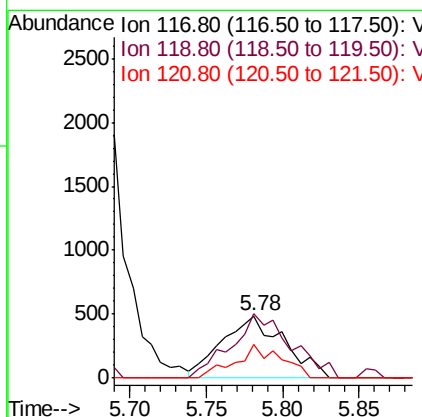
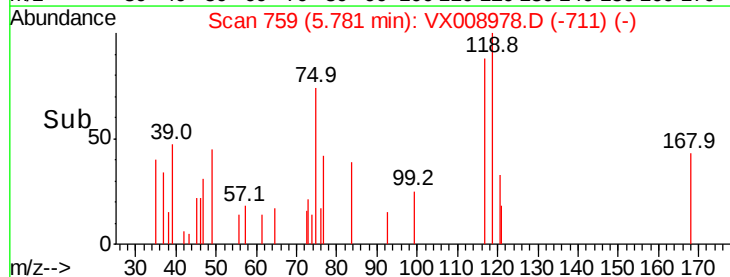
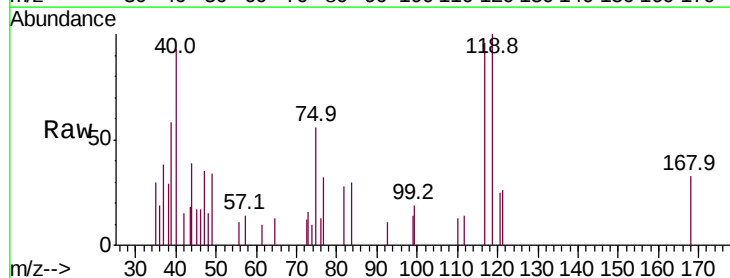
RT: 5.78 min Scan# 759

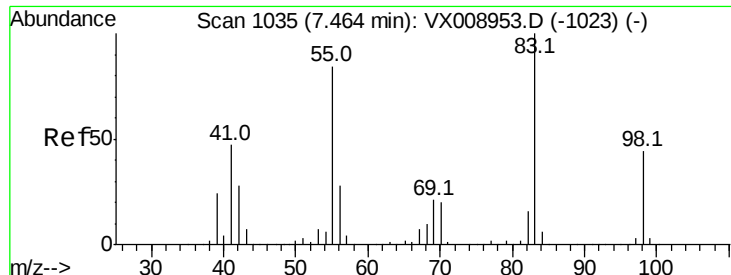
Delta R.T. -0.01 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Tgt Ion	Ratio	Lower	Upper
117	100		
119	104.3	73.8	110.8
121	53.4	23.6	35.4#





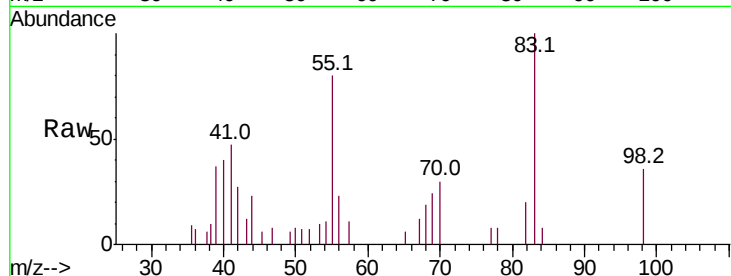
#39
Methvlcvclohexane
Concen: 0.459 ug/l
RT: 7.46 min Scan# 1034
Delta R.T. -0.01 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

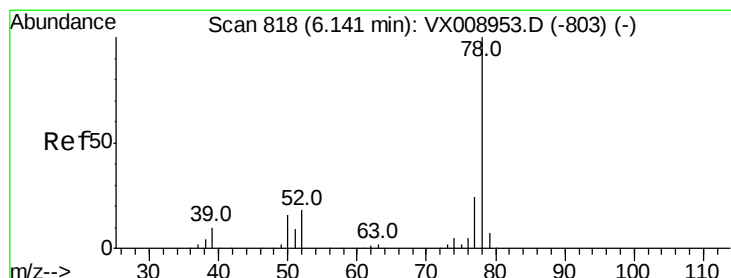
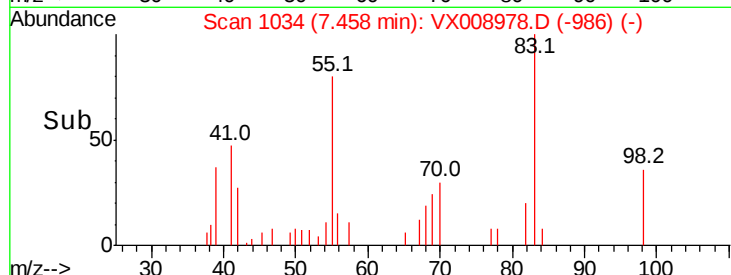
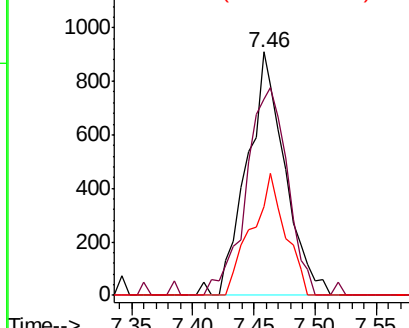
Tot Ion	Ratio	Lower	Upper
83	100		
55	80.4	67.1	100.7
98	36.5	35.1	52.7

Manual Integrations
APPROVED

MMDadoda
4/17/2019 9:58:47 AM

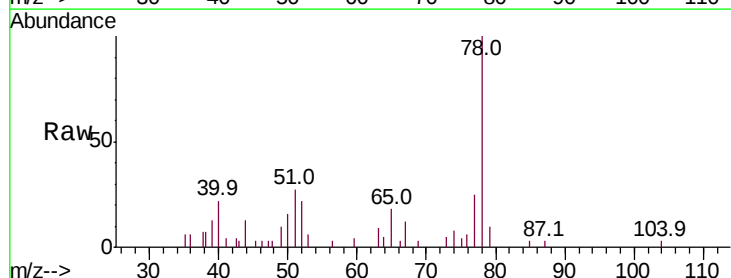


Abundance Ion 83.00 (82.70 to 83.70): VX0
Ion 55.00 (54.70 to 55.70): VX0
Ion 98.00 (97.70 to 98.70): VX0

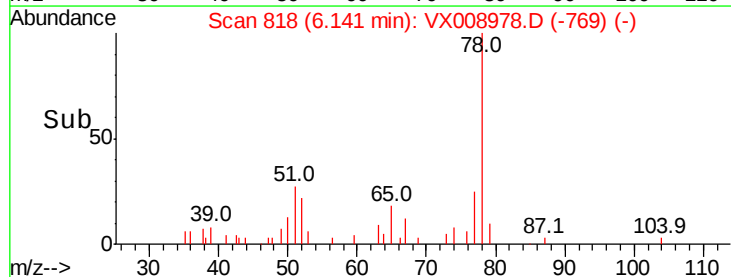
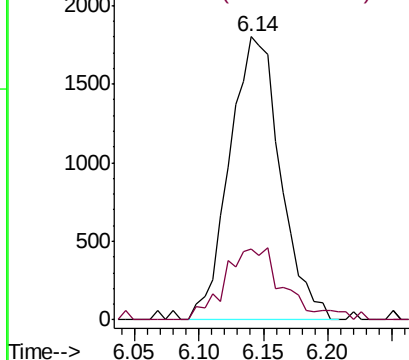


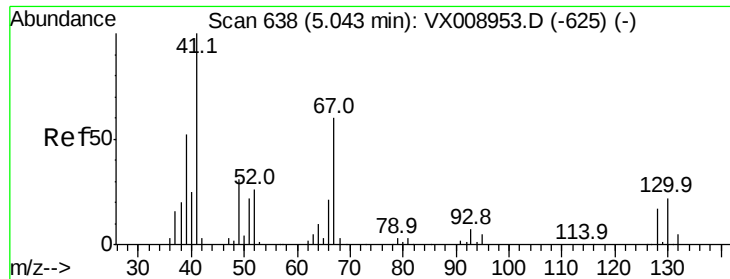
#40
Benzene
Concen: 0.474 ug/l
RT: 6.14 min Scan# 818
Delta R.T. 0.00 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.1	19.0	28.6



Abundance Ion 78.00 (77.70 to 78.70): VX0
Ion 77.00 (76.70 to 77.70): VX0





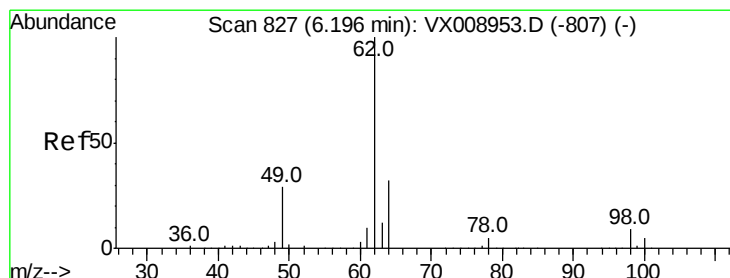
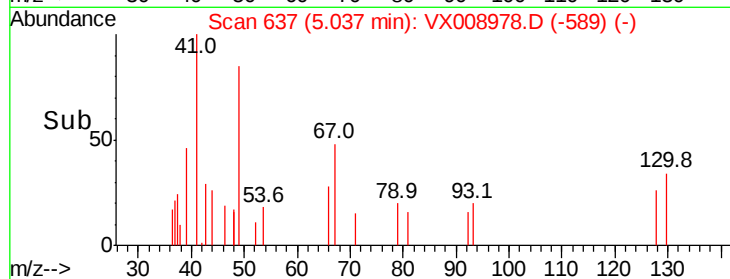
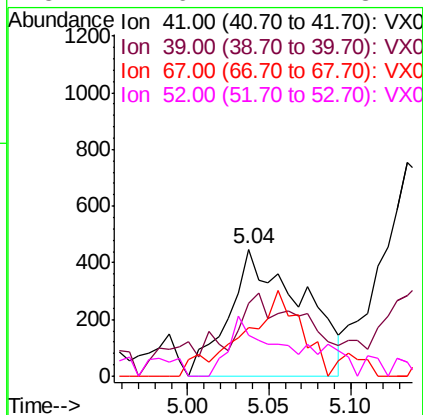
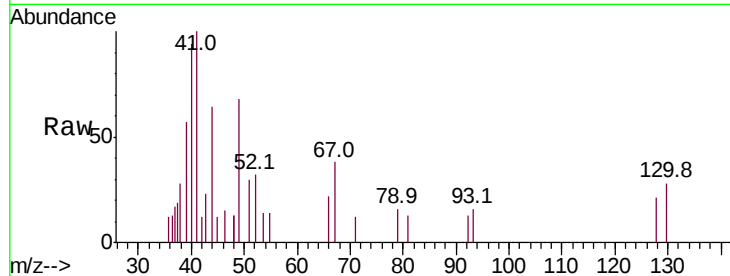
#41
Methacrylonitrile
Concen: 0.527 ug/l
RT: 5.04 min Scan# 637
Delta R.T. -0.01 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	18.3	41.8	62.6#	
67	0.0	50.2	75.4#	
52	27.6	21.1	31.7	

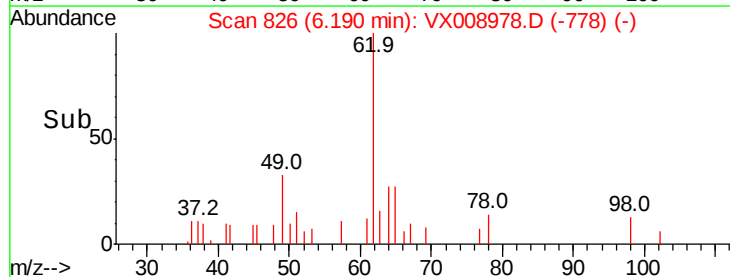
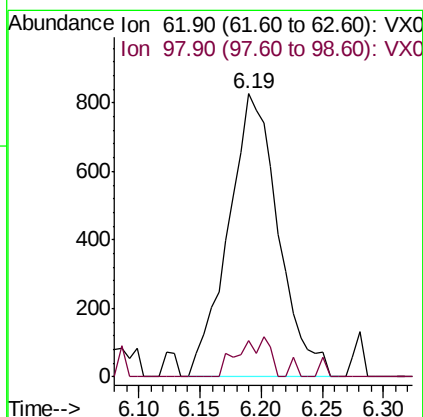
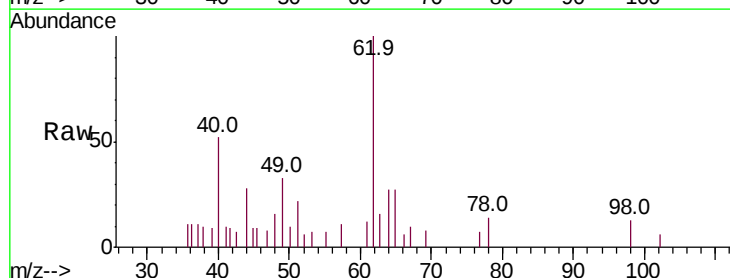
Manual Integrations
APPROVED

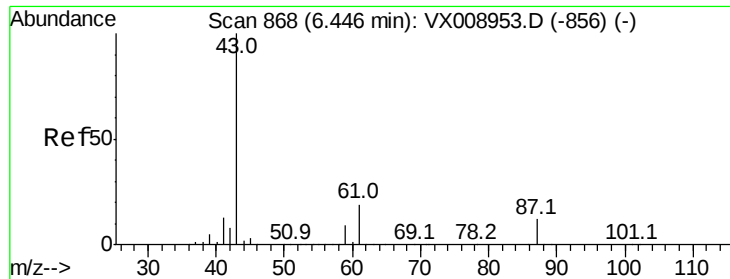
MMDadoda
4/17/2019 9:58:47 AM



#42
1,2-Dichloroethane
Concen: 0.637 ug/l
RT: 6.19 min Scan# 826
Delta R.T. -0.01 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.9	0.0	18.4	





#43

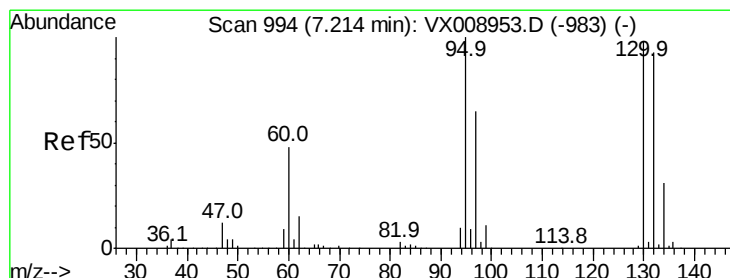
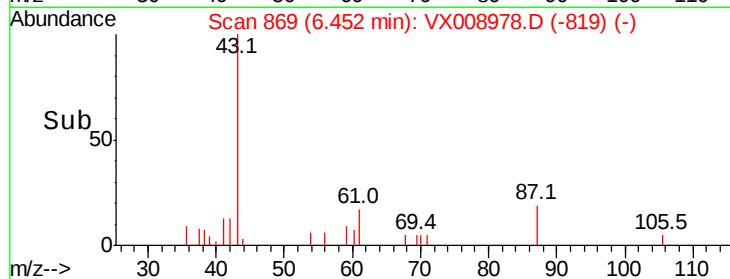
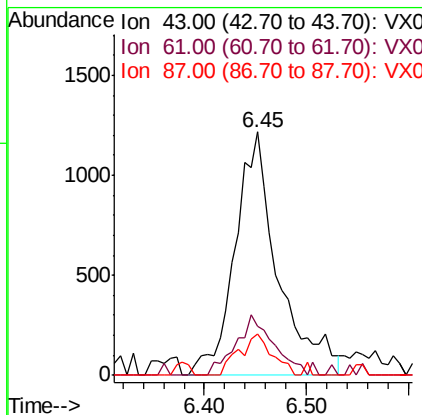
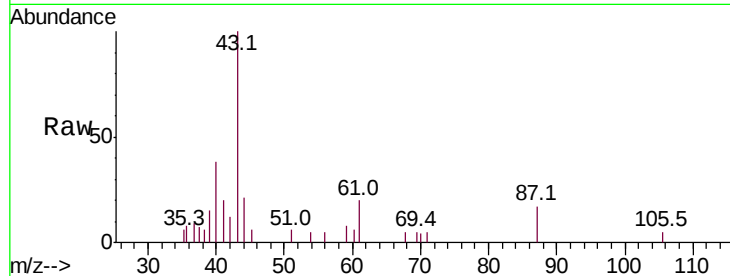
Isopropyl Acetate
 Concen: 0.488 ug/l
 RT: 6.45 min Scan# 869
 Delta R.T. 0.01 min
 Lab File: VX008978.D
 Acq: 16 Apr 2019 11:35

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
43	100		
61	21.7	15.4	23.0
87	12.9	9.0	13.4

Manual Integrations
 APPROVED

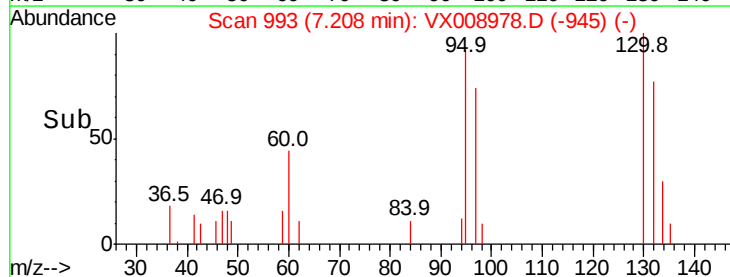
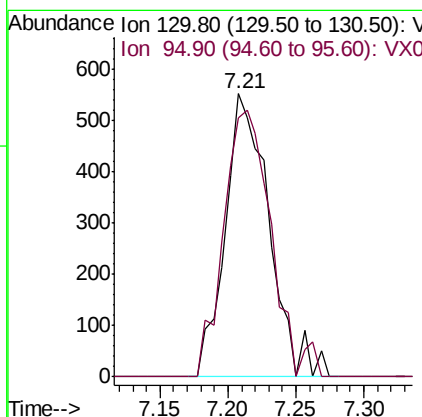
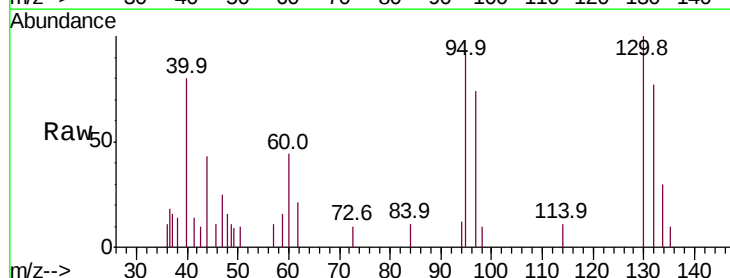
MMDadoda
 4/17/2019 9:58:47 AM

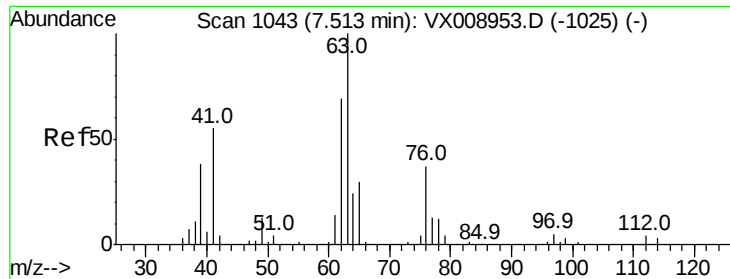


#44

Trichloroethene
 Concen: 0.486 ug/l
 RT: 7.21 min Scan# 993
 Delta R.T. -0.01 min
 Lab File: VX008978.D
 Acq: 16 Apr 2019 11:35

Tgt Ion	Ratio	Lower	Upper
130	100		
95	91.7	0.0	203.2





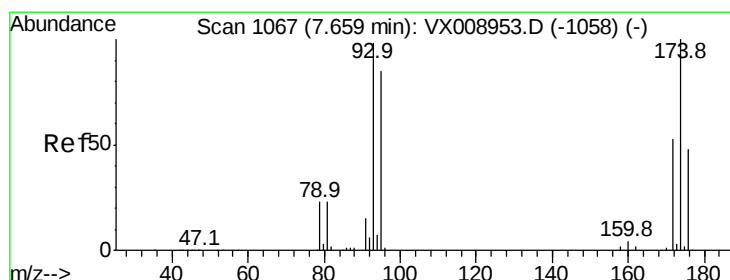
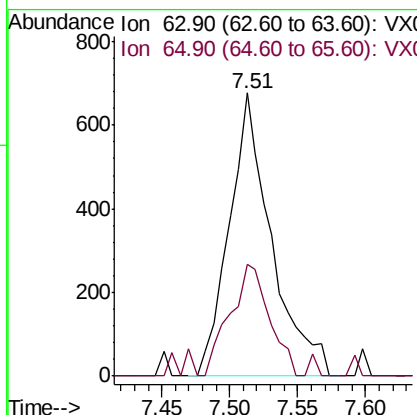
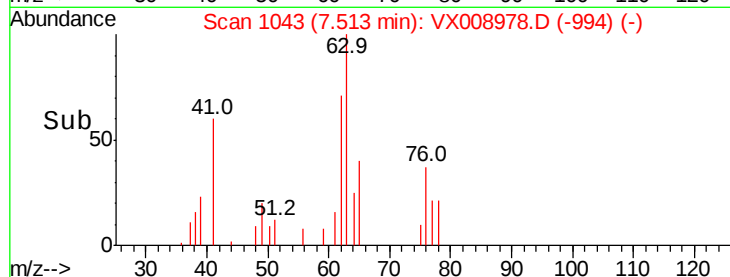
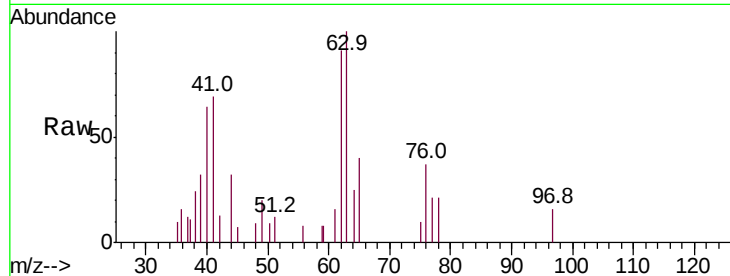
#45
 1,2-Dichloropropane
 Concen: 0.505 ug/l
 RT: 7.51 min Scan# 1043
 Delta R.T. 0.00 min
 Lab File: VX008978.D
 Acq: 16 Apr 2019 11:35

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
63	100		
65	39.6	24.1	36.1#

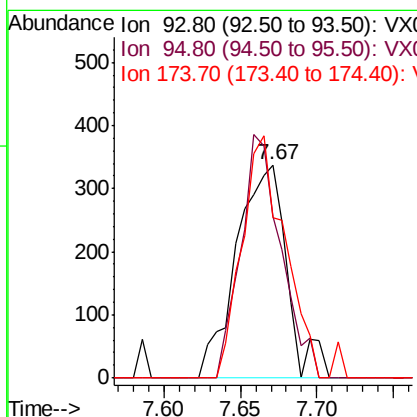
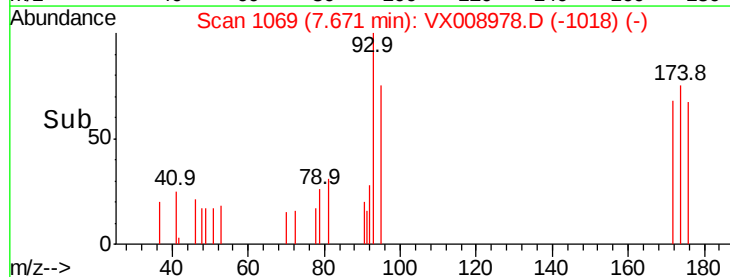
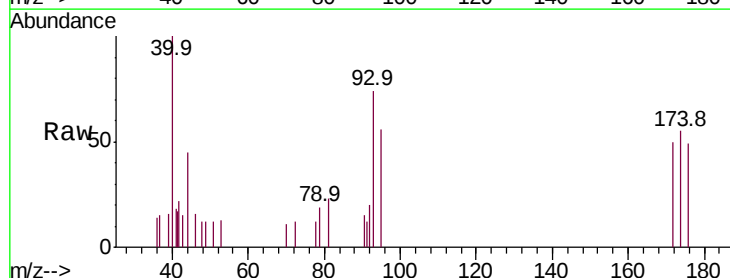
Manual Integrations
 APPROVED

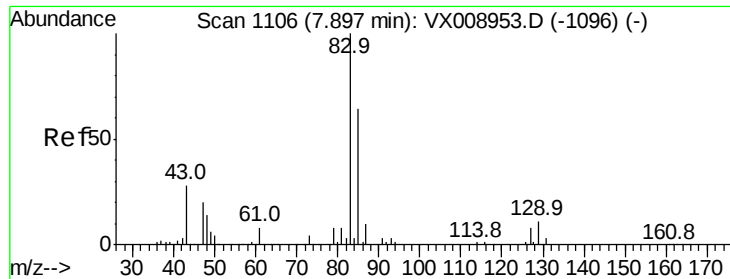
MMDadoda
 4/17/2019 9:58:47 AM



#46
 Dibromomethane
 Concen: 0.462 ug/l
 RT: 7.67 min Scan# 1069
 Delta R.T. 0.01 min
 Lab File: VX008978.D
 Acq: 16 Apr 2019 11:35

Tgt Ion	Ratio	Lower	Upper
93	100		
95	90.7	67.0	100.4
174	95.9	81.6	122.4





#47

Bromodichloromethane

Concen: 0.444 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

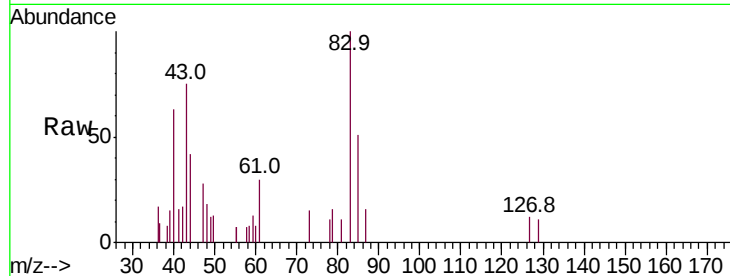
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

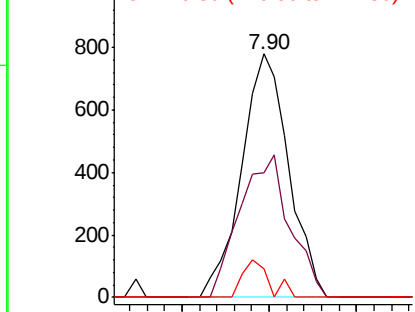
Tot Ion:	83	Resp:	1465
Ion	Ratio	Lower	Upper
83	100		
85	51.0	50.8	76.2
127	11.7	6.4	9.6#

Manual Integrations
APPROVED

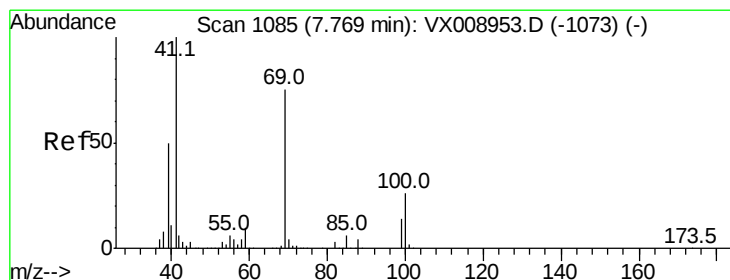
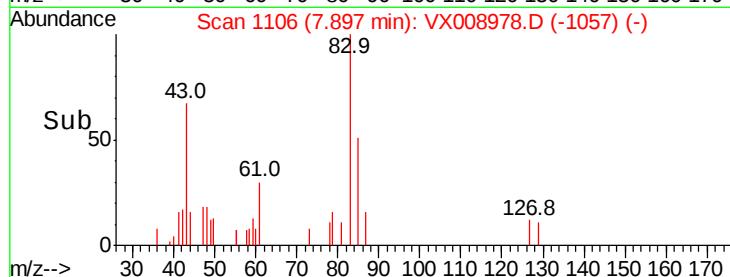
MMDadoda
4/17/2019 9:58:47 AM



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0
Ion 126.80 (126.50 to 127.50): V



Time-->



#48

Methyl methacrylate

Concen: 0.317 ug/l

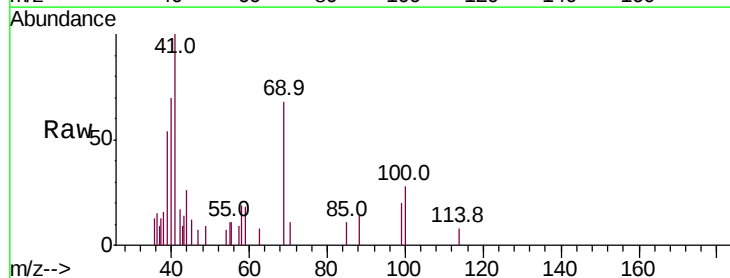
RT: 7.77 min Scan# 1086

Delta R.T. 0.01 min

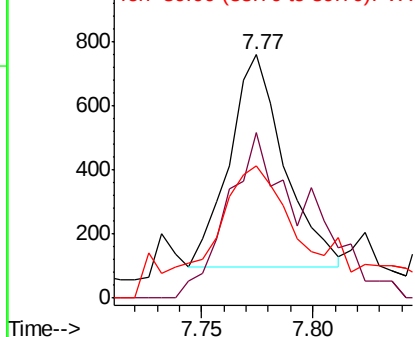
Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

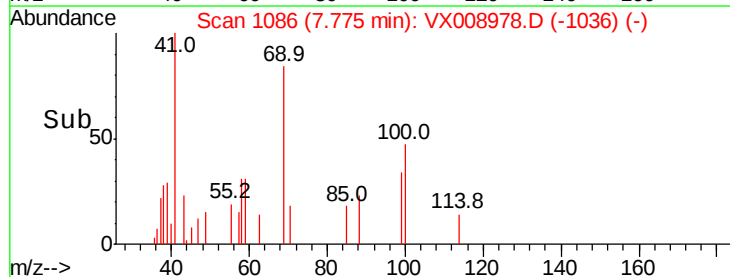
Tgt Ion:	41	Resp:	1146
Ion	Ratio	Lower	Upper
41	100		
69	113.2	59.4	89.2#
39	109.1	39.8	59.6#

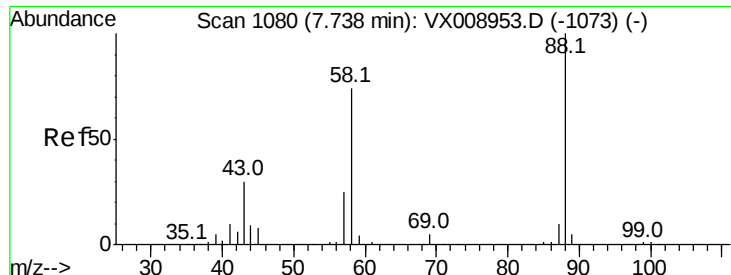


Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0



Time-->





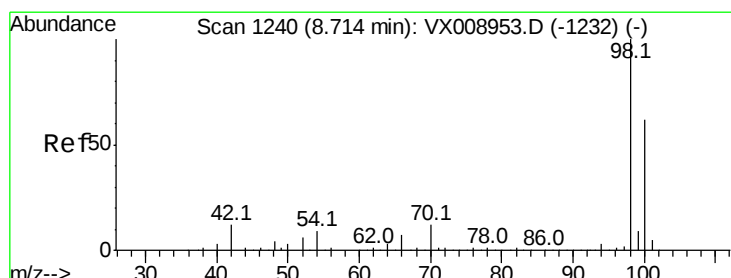
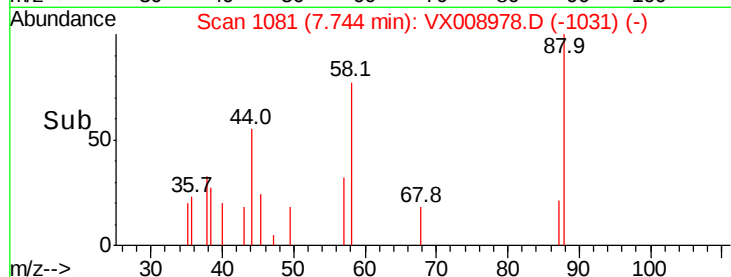
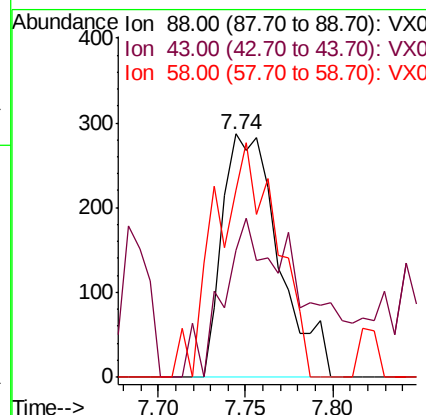
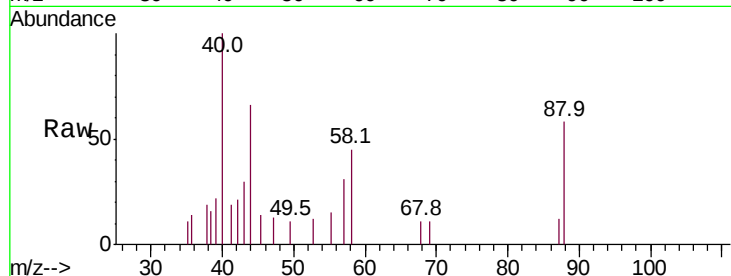
#49
1,4-Dioxane
Concen: 9.492 ug/l
RT: 7.74 min Scan# 1081
Delta R.T. 0.01 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	92.7	29.3	43.9#
58	105.3	62.6	93.8#

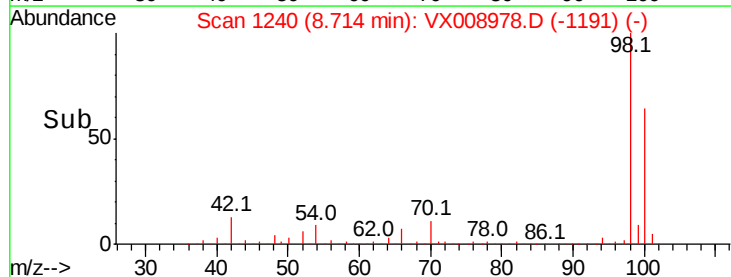
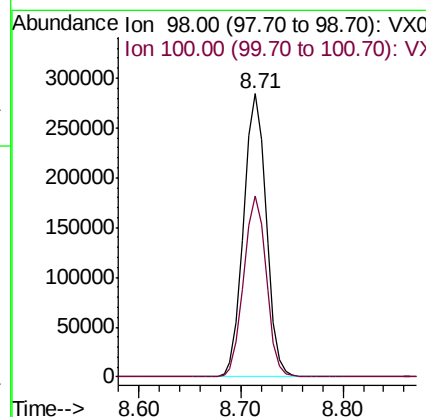
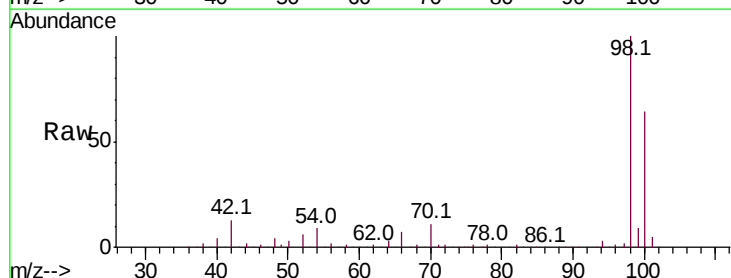
Manual Integrations
APPROVED

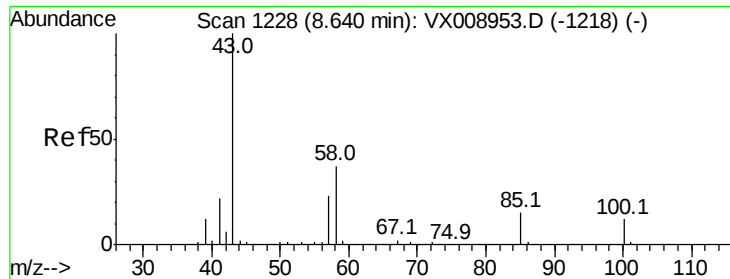
MMDadoda
4/17/2019 9:58:47 AM



#50
Toluene-d8
Concen: 49.840 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.8	51.4	77.2





#51

4-Methyl-2-Pentanone

Concen: 2.095 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 43 Resp: 9777

Ion Ratio Lower Upper

43 100

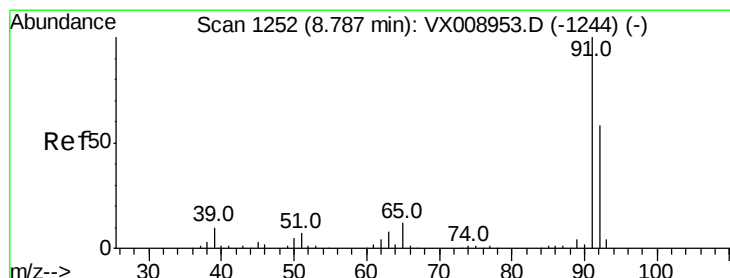
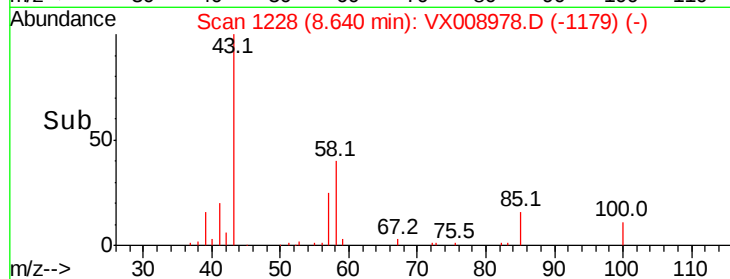
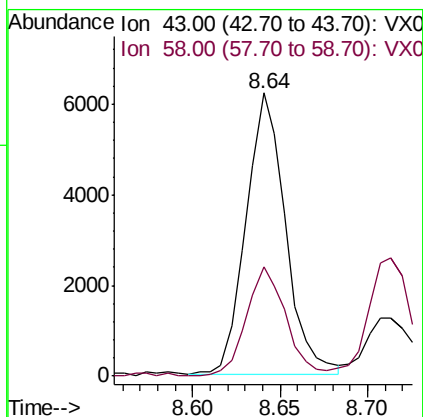
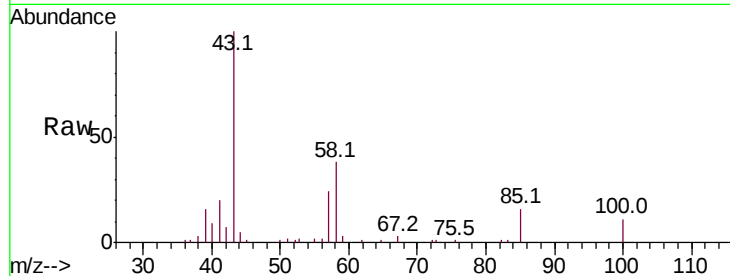
58 39.0 29.8 44.6

Manual Integrations

APPROVED

MMDadoda

4/17/2019 9:58:47 AM



#52

Toluene

Concen: 0.487 ug/l

RT: 8.78 min Scan# 1251

Delta R.T. -0.01 min

Lab File: VX008978.D

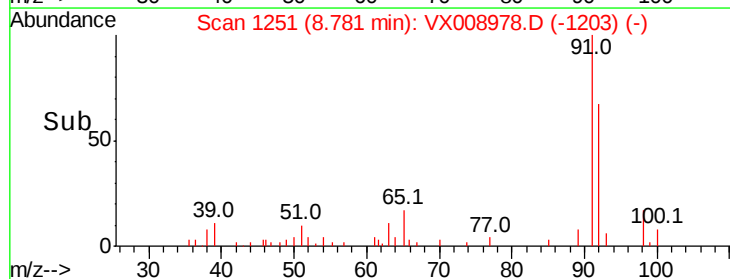
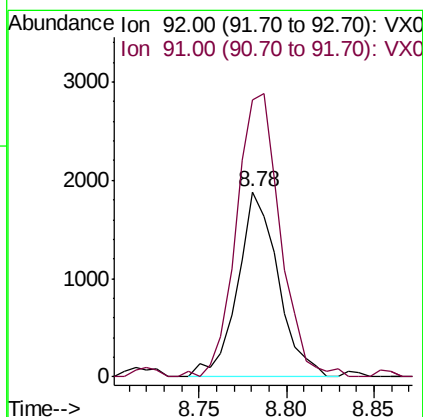
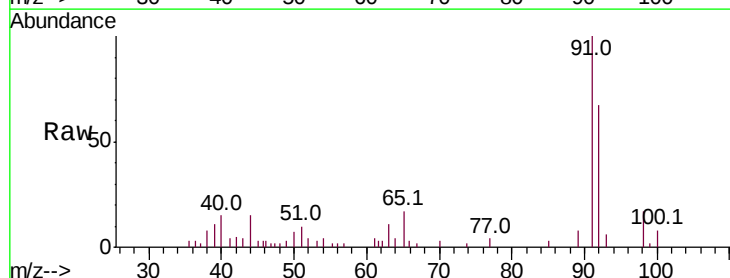
Acq: 16 Apr 2019 11:35

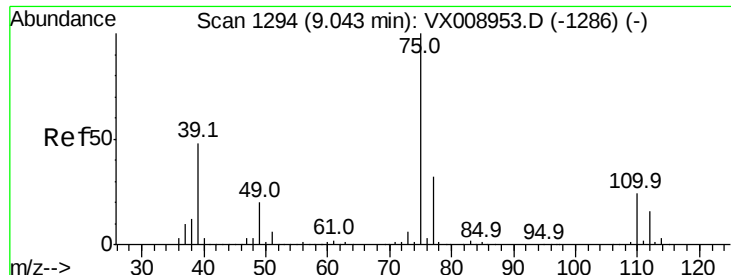
Tgt Ion: 92 Resp: 3039

Ion Ratio Lower Upper

92 100

91 165.2 138.5 207.7





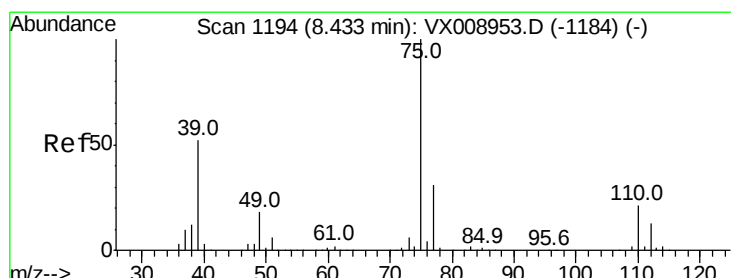
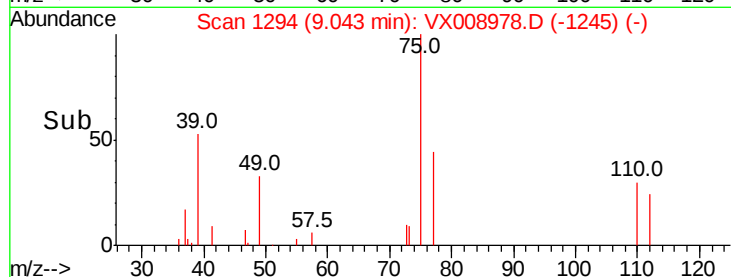
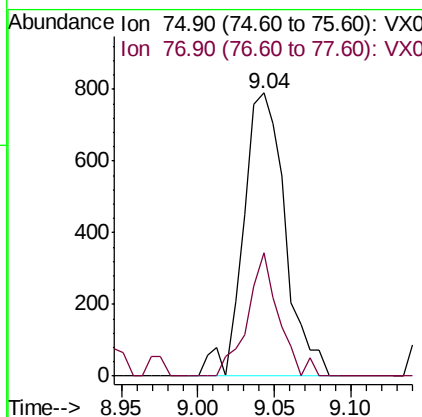
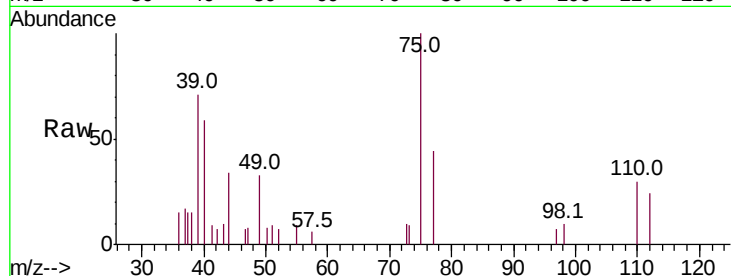
#53
 t-1,3-Dichloropropene
 Concen: 0.395 ug/l
 RT: 9.04 min Scan# 1294
 Delta R.T. 0.00 min
 Lab File: VX008978.D
 Acq: 16 Apr 2019 11:35

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion: 75 Resp: 1502
 Ion Ratio Lower Upper
 75 100
 77 43.5 25.4 38.2#

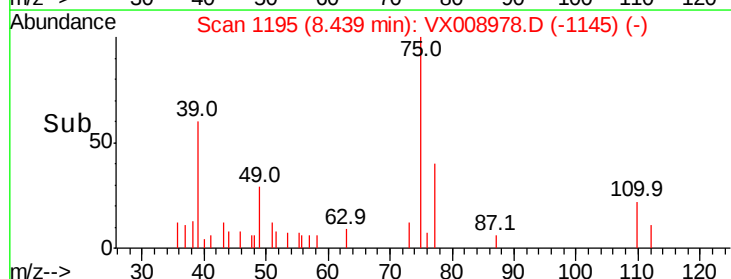
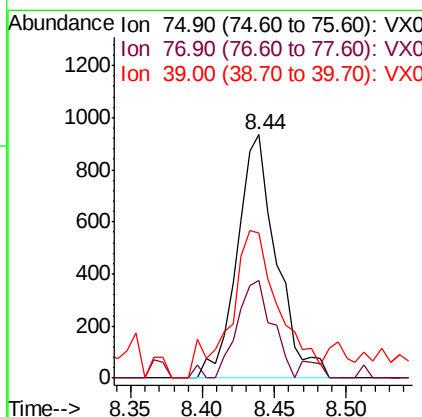
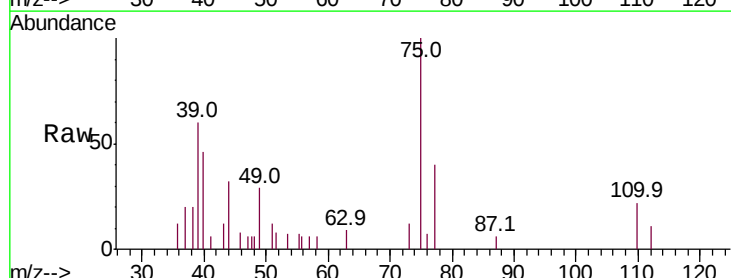
Manual Integrations
 APPROVED

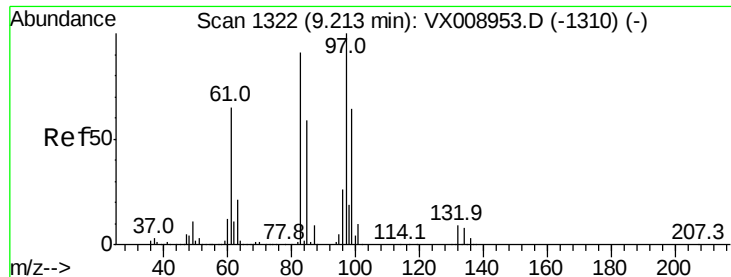
MMDadoda
 4/17/2019 9:58:47 AM



#54
 cis-1,3-Dichloropropene
 Concen: 0.417 ug/l
 RT: 8.44 min Scan# 1195
 Delta R.T. 0.01 min
 Lab File: VX008978.D
 Acq: 16 Apr 2019 11:35

Tgt Ion: 75 Resp: 1773
 Ion Ratio Lower Upper
 75 100
 77 40.2 24.8 37.2#
 39 59.6 41.8 62.6





#55

1,1,2-Trichloroethane

Concen: 0.475 ug/l

RT: 9.21 min Scan# 1322

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

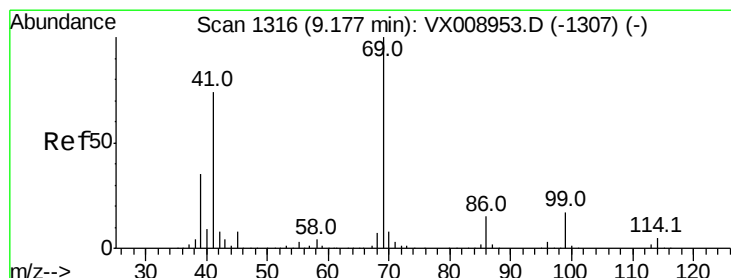
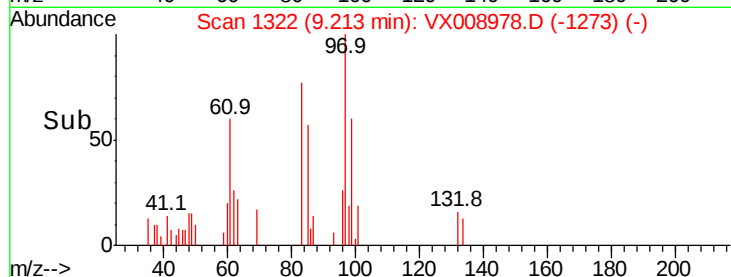
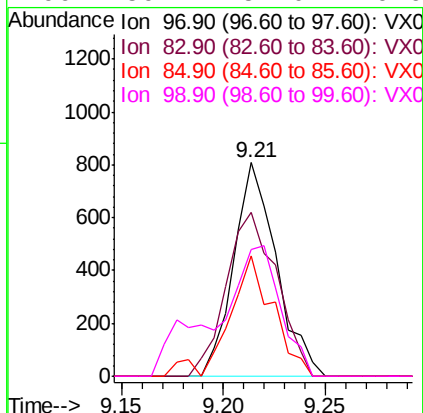
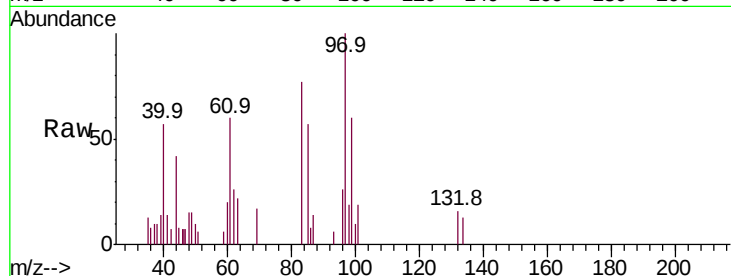
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	97	Resp:	1175
Ion	Ratio	Lower	Upper
97	100		
83	76.6	72.6	108.8
85	56.6	46.9	70.3
99	59.7	51.0	76.6

Manual Integrations
APPROVED

MMDadoda
4/17/2019 9:58:47 AM



#56

Ethyl methacrylate

Concen: 0.412 ug/l

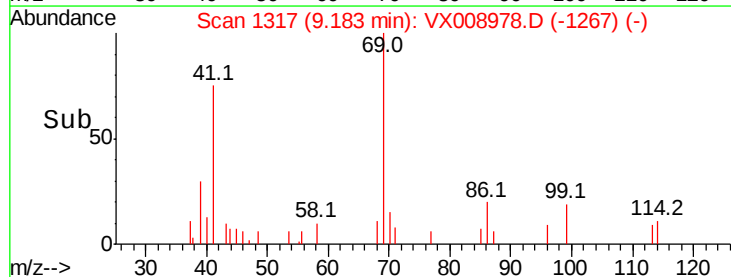
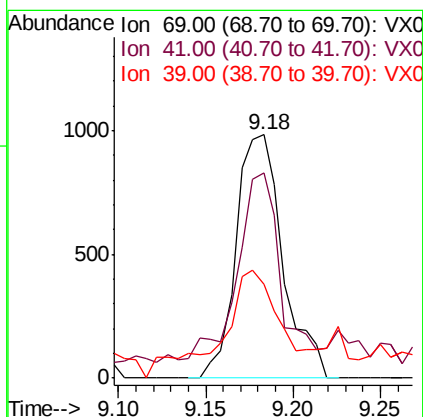
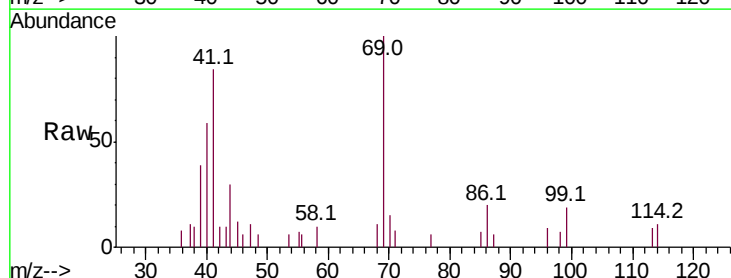
RT: 9.18 min Scan# 1317

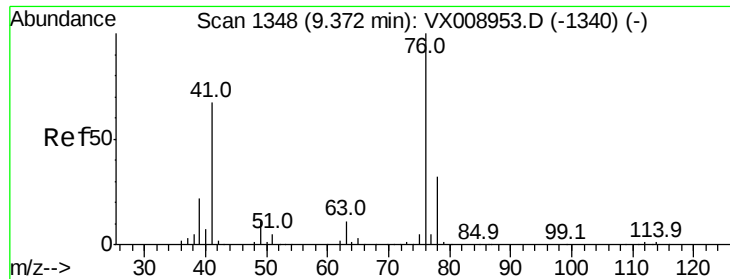
Delta R.T. 0.01 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Tgt Ion:	69	Resp:	1827
Ion	Ratio	Lower	Upper
69	100		
41	67.9	60.2	90.2
39	56.2	27.9	41.9#





#57

1,3-Dichloropropane

Concen: 0.460 ug/l

RT: 9.37 min Scan# 1348

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 76 Resp: 2026

Ion Ratio Lower Upper

76 100

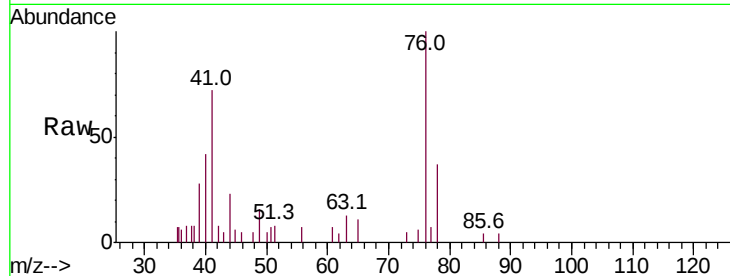
78 35.3 25.7 38.5

Manual Integrations

APPROVED

MMDadoda

4/17/2019 9:58:47 AM



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

1500

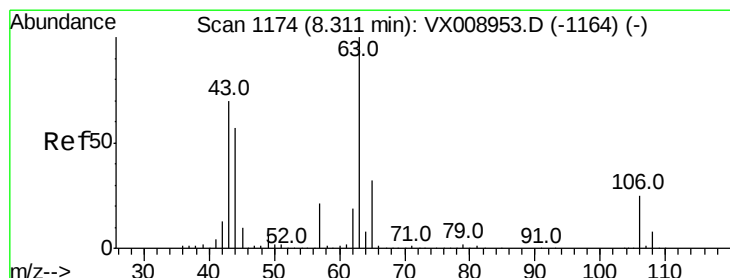
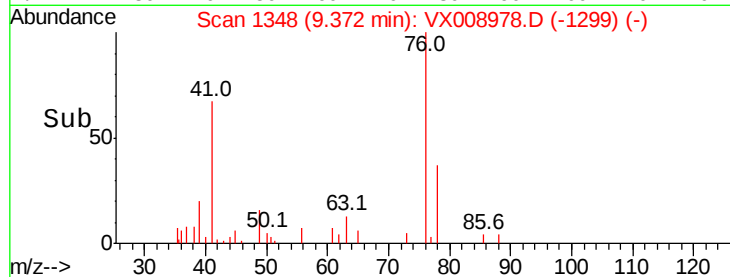
9.37

1000

500

0

Time--> 9.30 9.35 9.40



#58

2-Chloroethyl Vinyl ether

Concen: 2.253 ug/l

RT: 8.31 min Scan# 1174

Delta R.T. 0.00 min

Lab File: VX008978.D

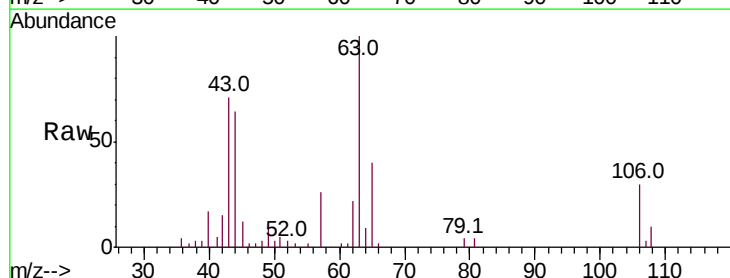
Acq: 16 Apr 2019 11:35

Tgt Ion: 63 Resp: 5385

Ion Ratio Lower Upper

63 100

106 22.9 19.8 29.6



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

3000

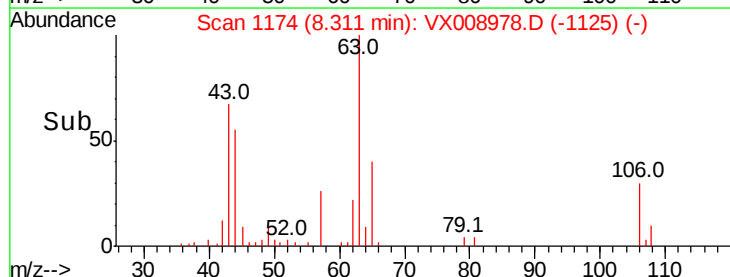
8.31

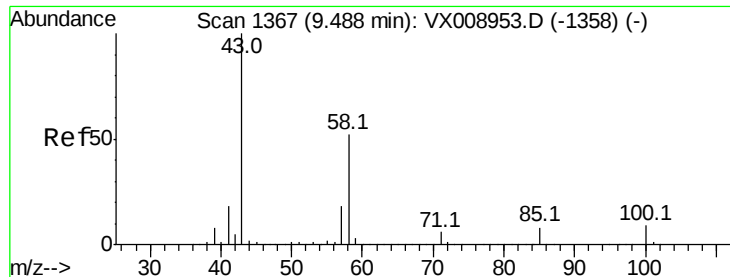
2000

1000

0

Time--> 8.20 8.25 8.30 8.35 8.40





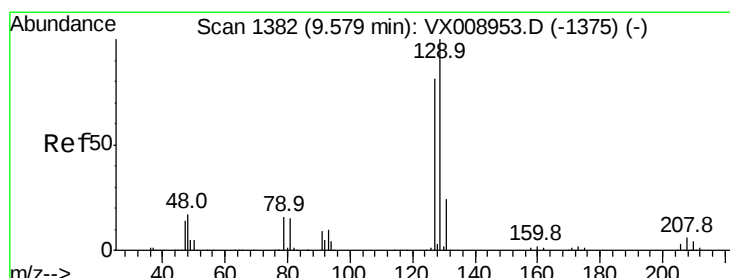
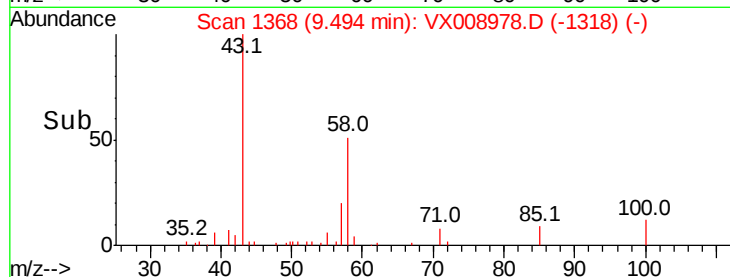
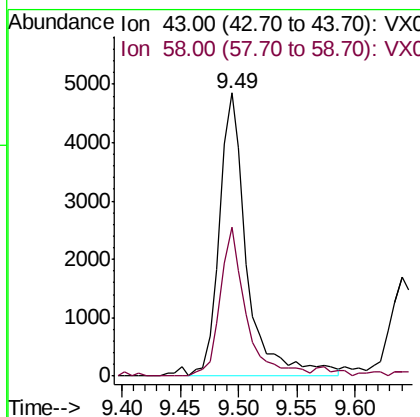
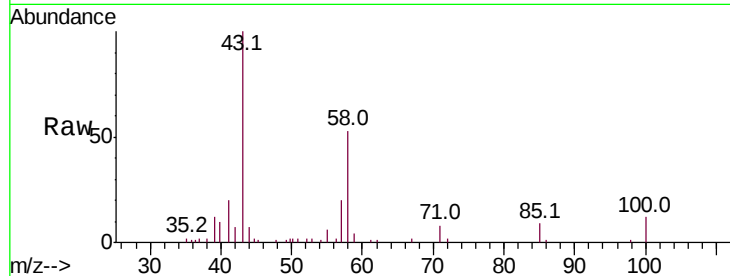
#59
2-Hexanone
Concen: 2.202 ug/l
RT: 9.49 min Scan# 1368
Delta R.T. 0.01 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion: 43 Resp: 7922
Ion Ratio Lower Upper
43 100
58 49.5 25.9 77.8

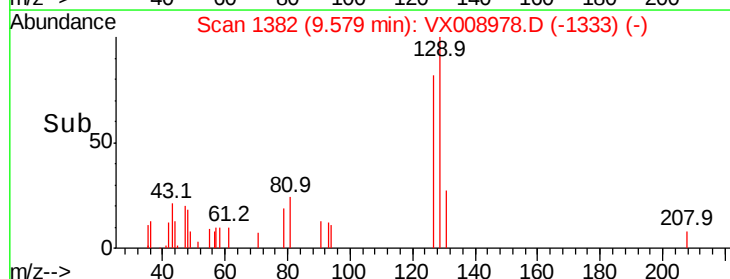
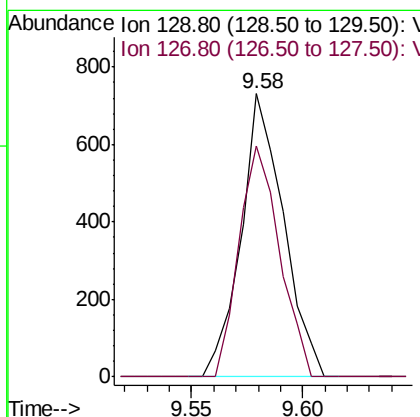
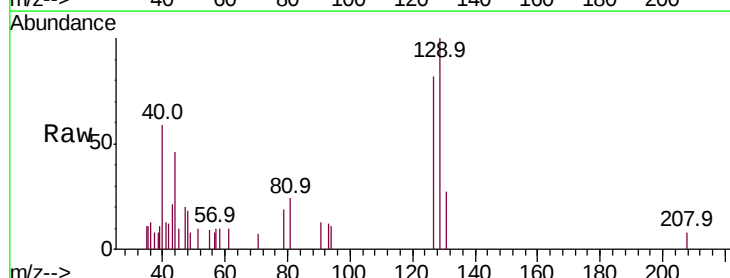
Manual Integrations
APPROVED

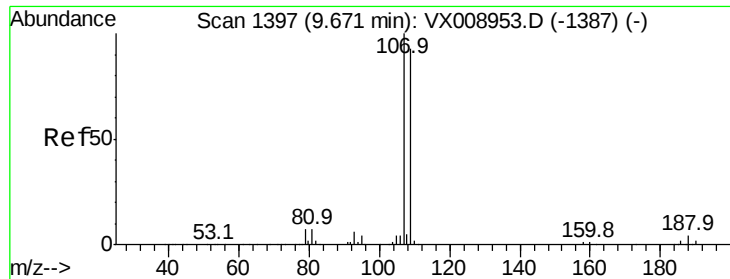
MMDadoda
4/17/2019 9:58:47 AM



#60
Dibromochloromethane
Concen: 0.408 ug/l
RT: 9.58 min Scan# 1382
Delta R.T. 0.00 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Tgt Ion:129 Resp: 969
Ion Ratio Lower Upper
129 100
127 77.9 39.1 117.2





#61

1,2-Dibromoethane

Concen: 0.448 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 107 Resp: 1145

Ion Ratio Lower Upper

107 100

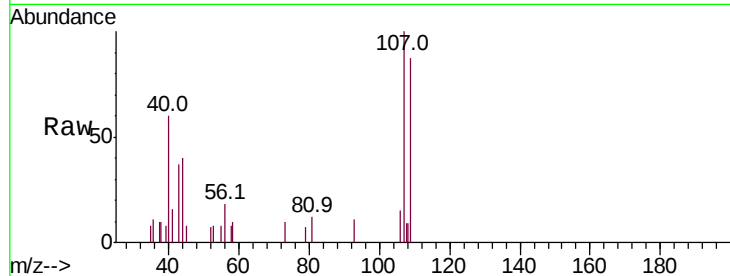
109 92.6 74.4 111.6

Manual Integrations

APPROVED

MMDadoda

4/17/2019 9:58:47 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.67

800

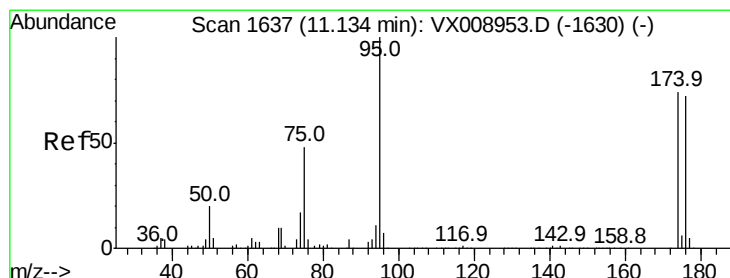
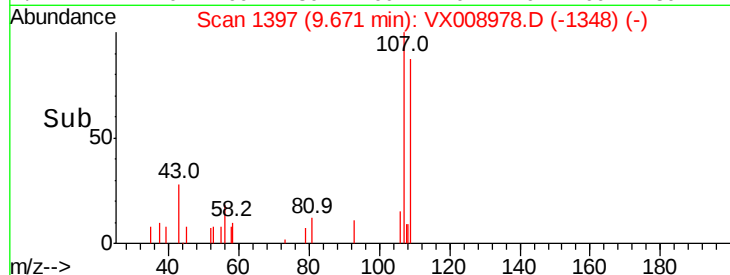
600

400

200

0

Time-->



#62

4-Bromofluorobenzene

Concen: 49.050 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

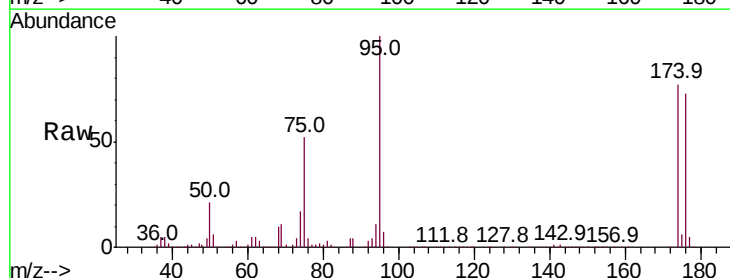
Tgt Ion: 95 Resp: 151360

Ion Ratio Lower Upper

95 100

174 79.1 0.0 159.6

176 75.7 0.0 154.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

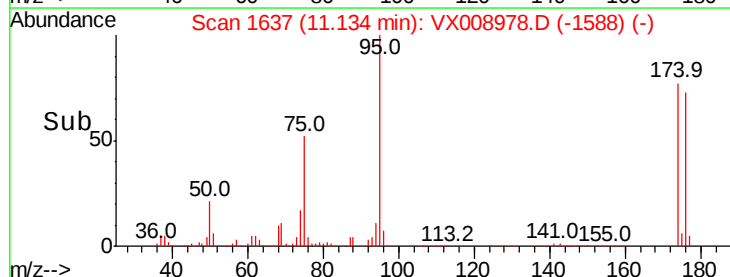
150000

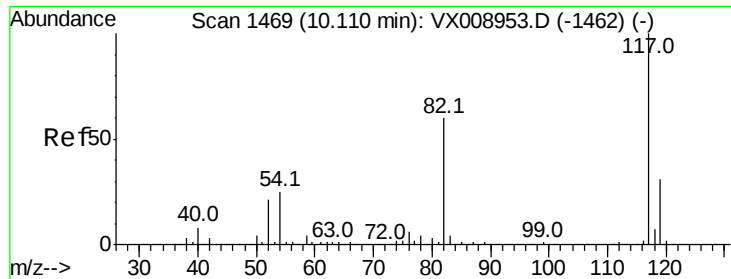
100000

50000

0

Time-->





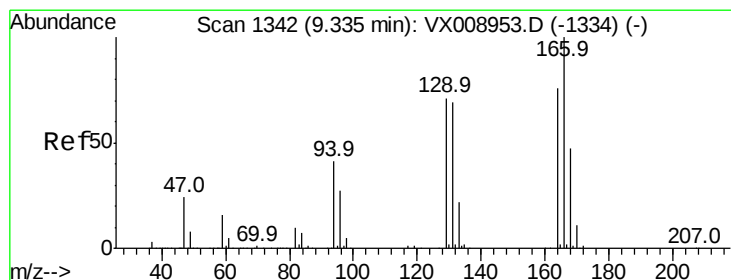
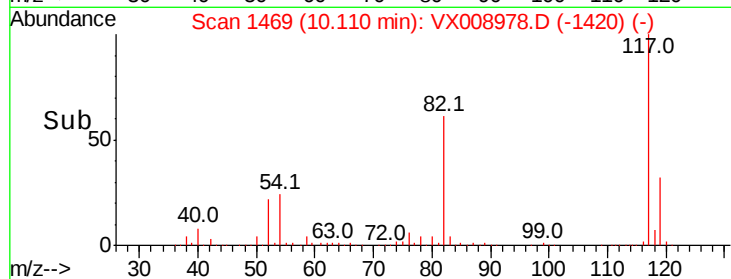
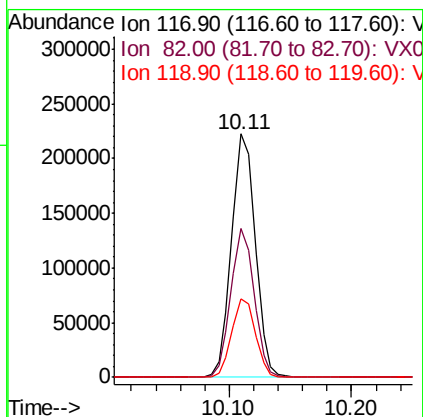
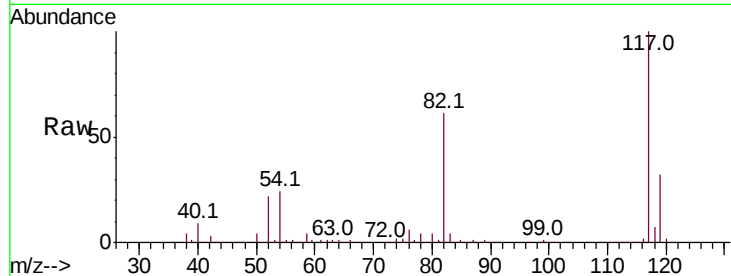
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Resp	Lower	Upper
117	100	299604		
82	61.1	48.2	72.4	
119	32.4	25.0	37.6	

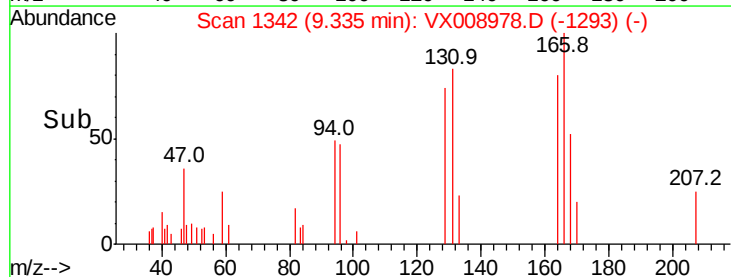
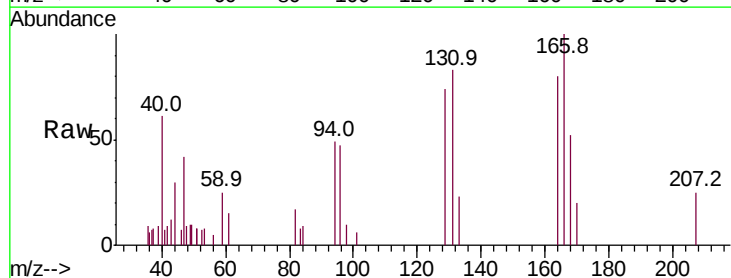
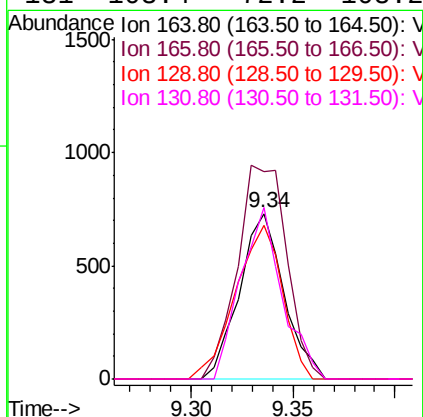
Manual Integrations
APPROVED

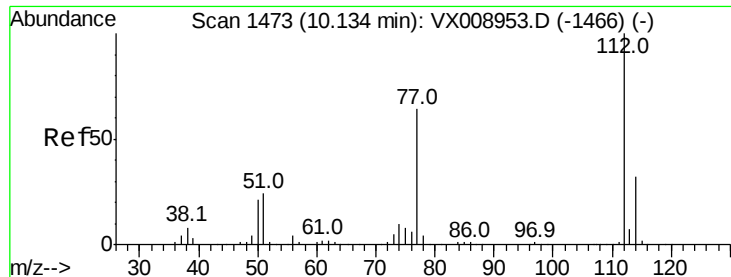
MMDadoda
4/17/2019 9:58:47 AM



#64
Tetrachloroethene
Concen: 0.489 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	1112		
166	125.3	105.0	157.4	
129	93.2	74.2	111.4	
131	103.4	72.2	108.2	





#65

Chlorobenzene

Concen: 0.433 ug/l

RT: 10.13 min Scan# 1473

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:112 Resp: 2739

Ion Ratio Lower Upper

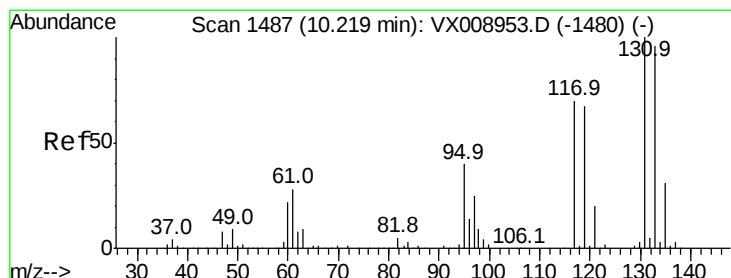
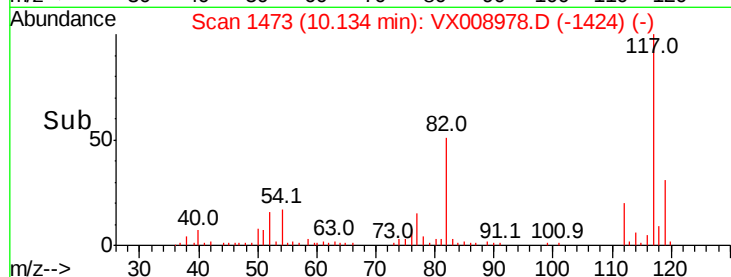
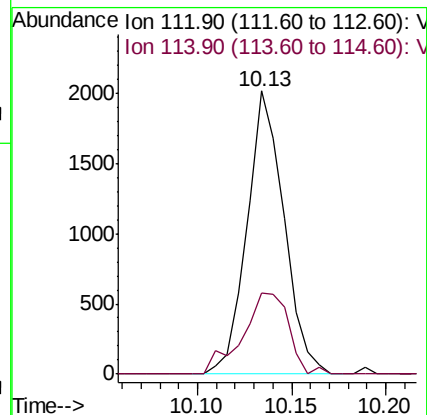
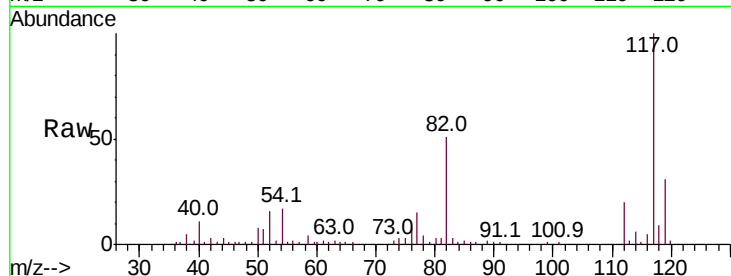
112 100

114 28.7 25.4 38.0

Manual Integrations
APPROVED

MMDadoda

4/17/2019 9:58:47 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 0.438 ug/l

RT: 10.22 min Scan# 1487

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

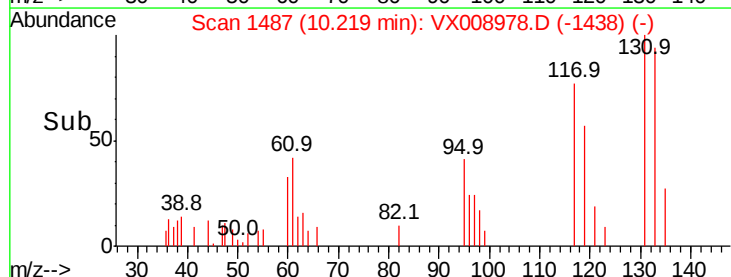
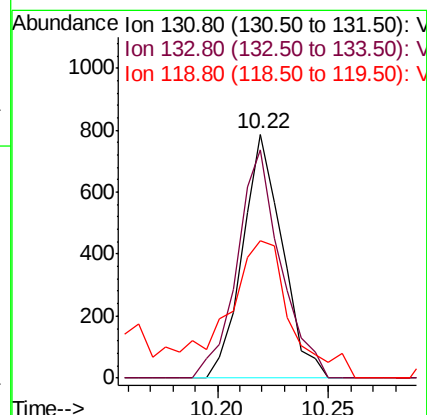
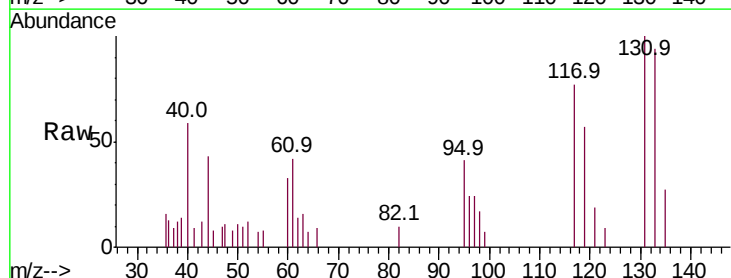
Tgt Ion:131 Resp: 976

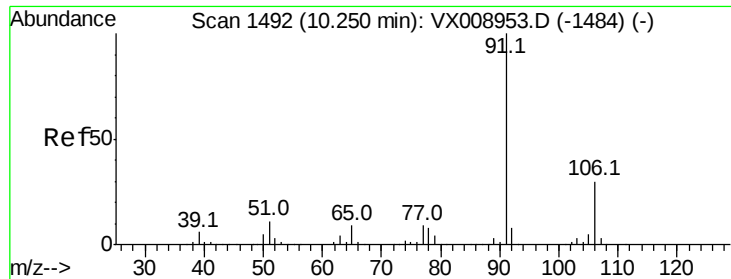
Ion Ratio Lower Upper

131 100

133 103.3 48.0 144.2

119 0.0 33.7 101.1#





#67

Ethyl Benzene

Concen: 0.439 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 91 Resp: 5071

Ion Ratio Lower Upper

91 100

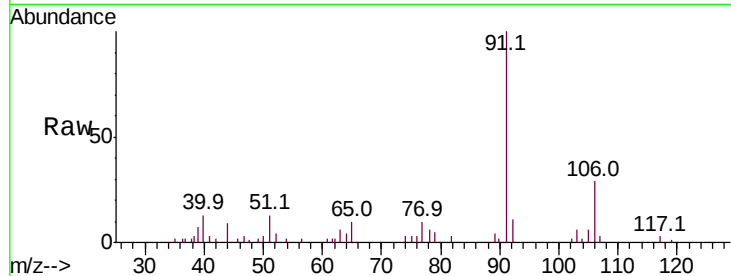
106 28.8 24.3 36.5

Manual Integrations

APPROVED

MMDadoda

4/17/2019 9:58:47 AM



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 106.00 (105.70 to 106.70): V

6000

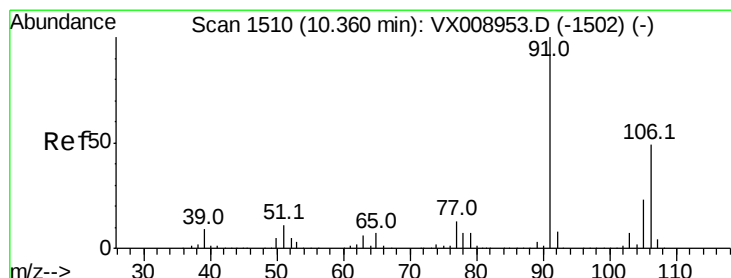
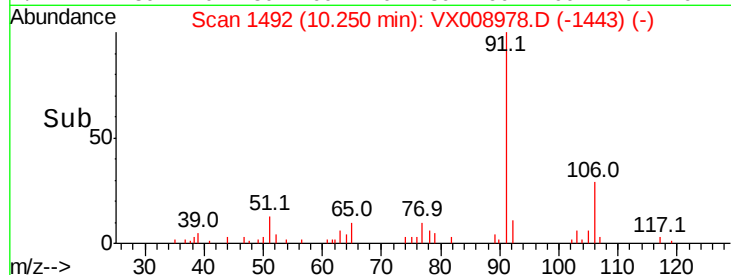
4000

2000

0

10.20 10.25 10.30 10.35

Time-->



#68

m/p-Xylenes

Concen: 0.902 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX008978.D

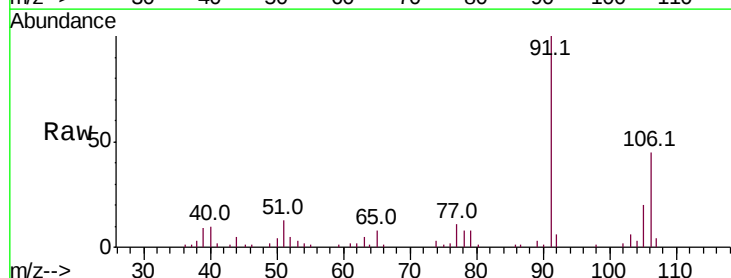
Acq: 16 Apr 2019 11:35

Tgt Ion:106 Resp: 3789

Ion Ratio Lower Upper

106 100

91 212.3 165.4 248.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VX0

6000

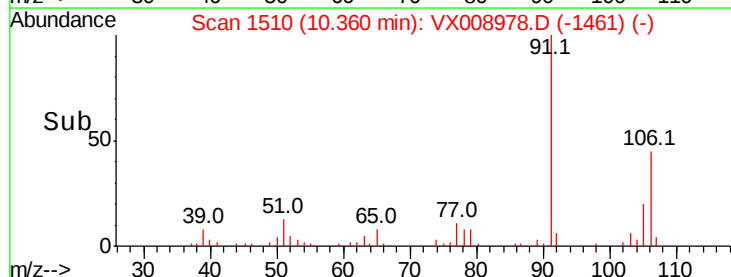
4000

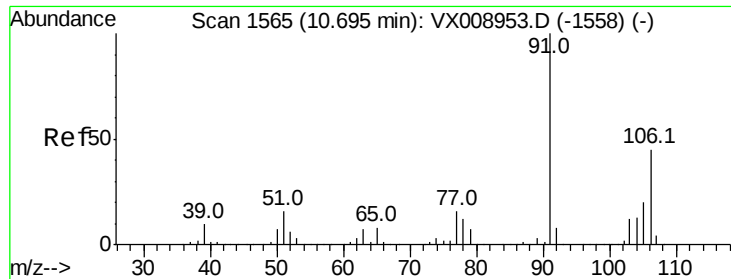
2000

0

10.30 10.35 10.40

Time-->





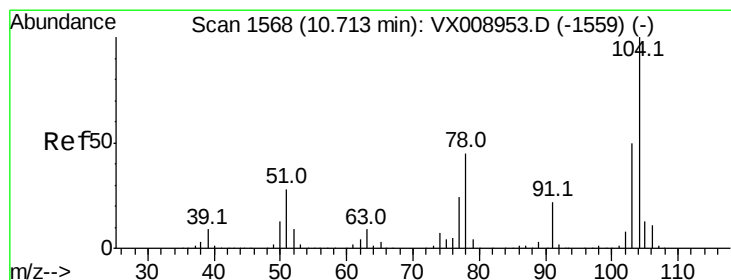
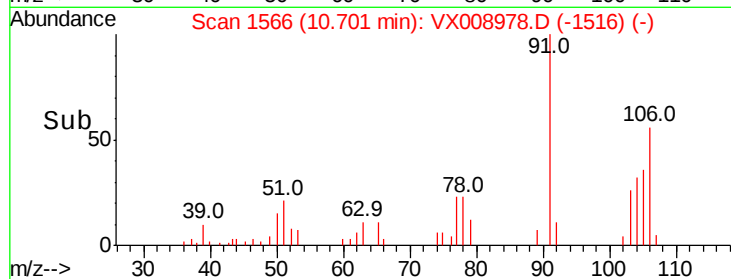
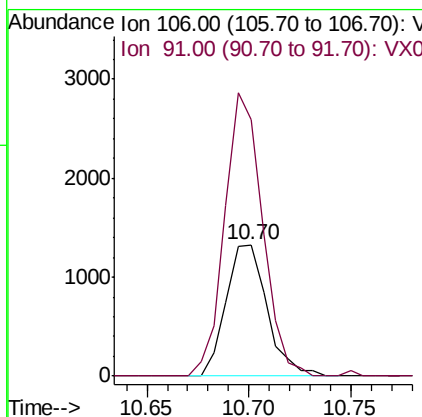
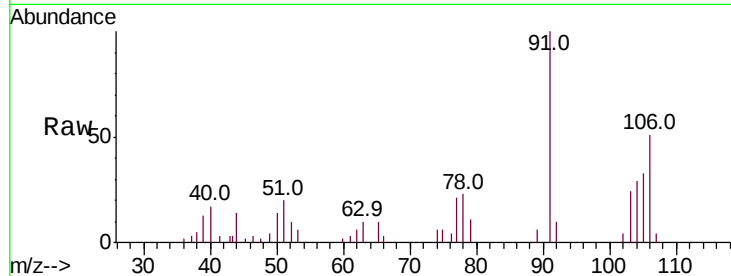
#69
o-Xylene
Concen: 0.453 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion:106 Resp: 1851
Ion Ratio Lower Upper
106 100
91 198.5 108.9 326.7

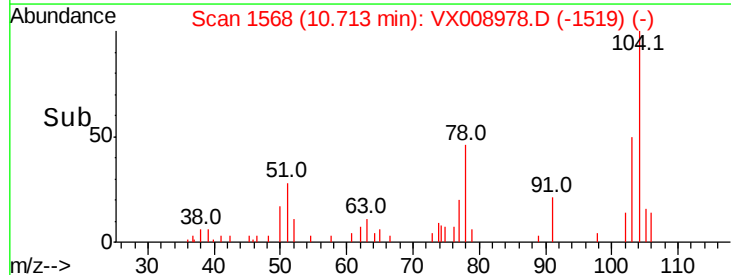
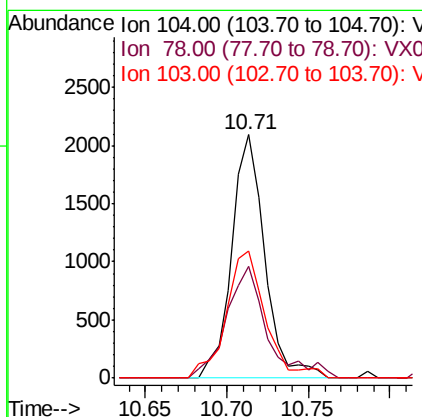
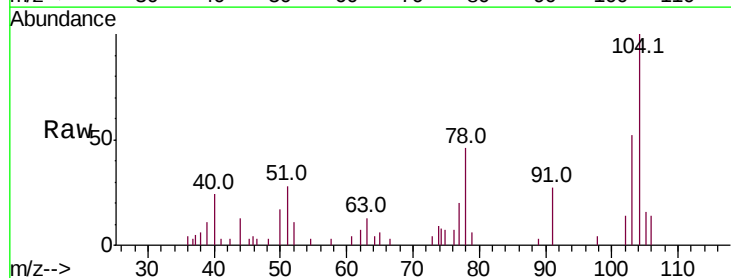
Manual Integrations
APPROVED

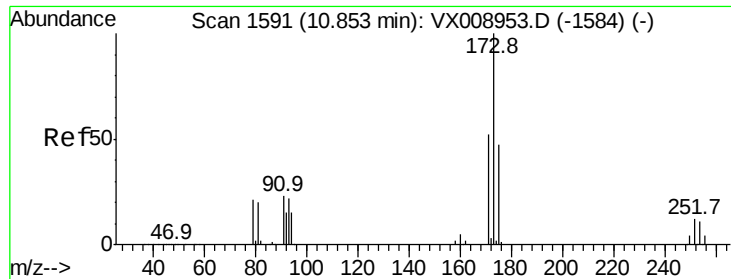
MMDadoda
4/17/2019 9:58:47 AM



#70
Styrene
Concen: 0.417 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Tgt Ion:104 Resp: 2953
Ion Ratio Lower Upper
104 100
78 56.5 41.2 61.8
103 62.4 43.9 65.9





#71

Bromoform

Concen: 0.375 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:173 Resp: 666

Ion Ratio Lower Upper

173 100

175 52.1 23.9 71.8

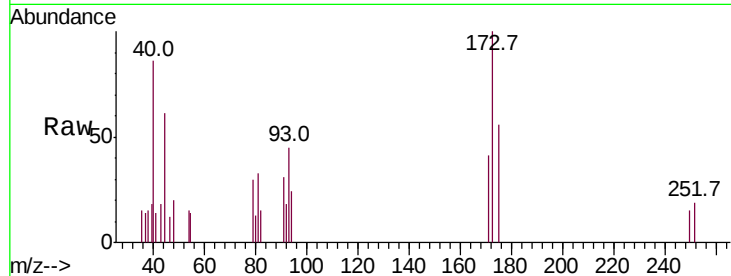
254 0.0 0.2 0.4#

Manual Integrations

APPROVED

MMDadoda

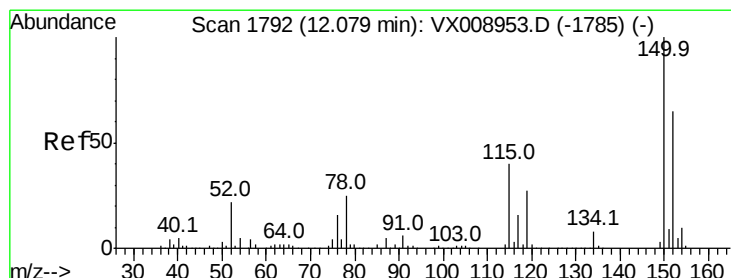
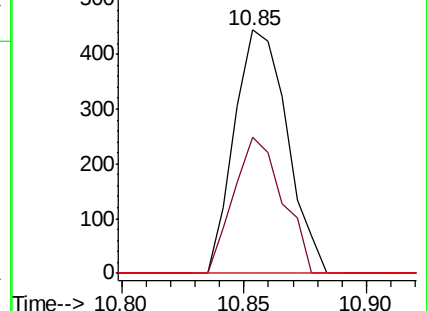
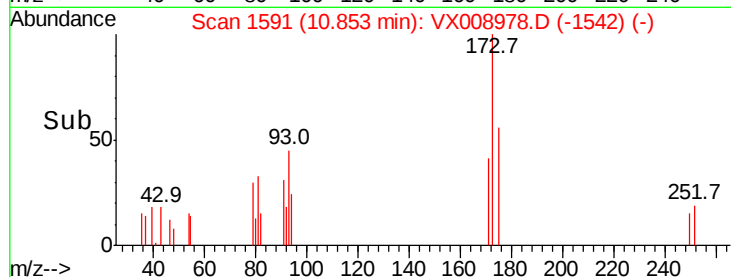
4/17/2019 9:58:47 AM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

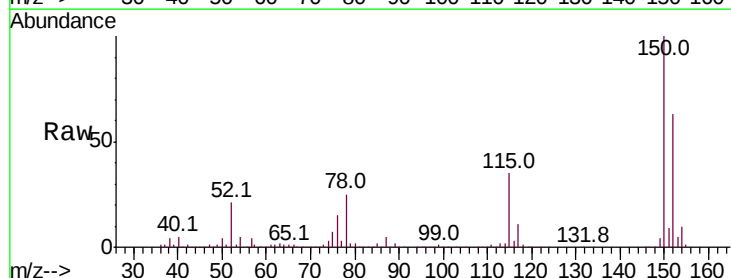
Tgt Ion:152 Resp: 136744

Ion Ratio Lower Upper

152 100

115 58.5 41.4 124.2

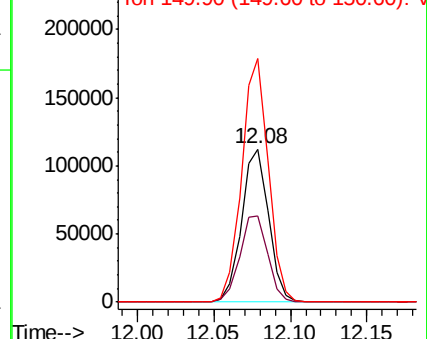
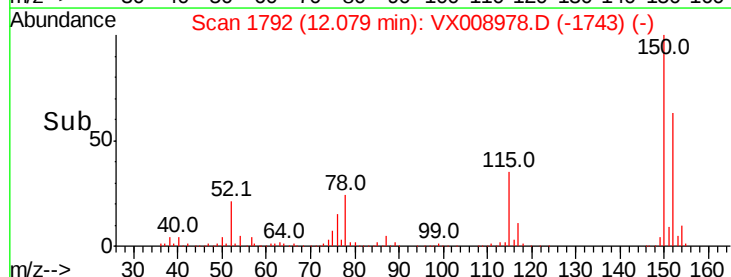
150 157.0 0.0 349.8

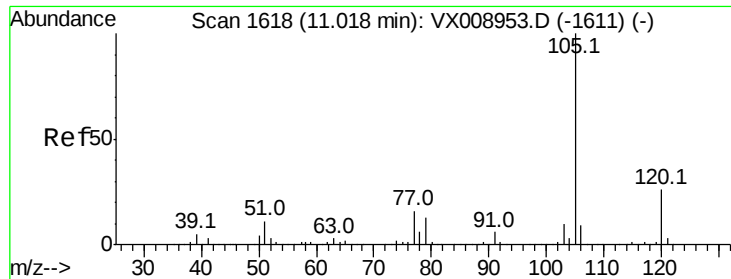


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





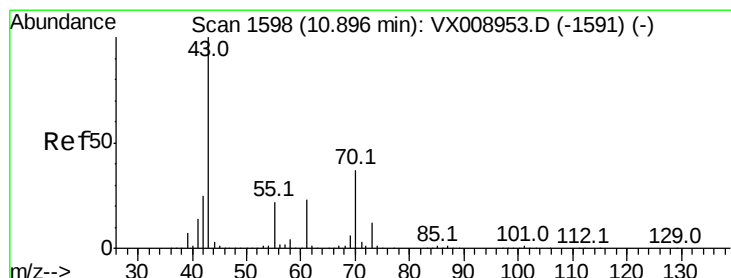
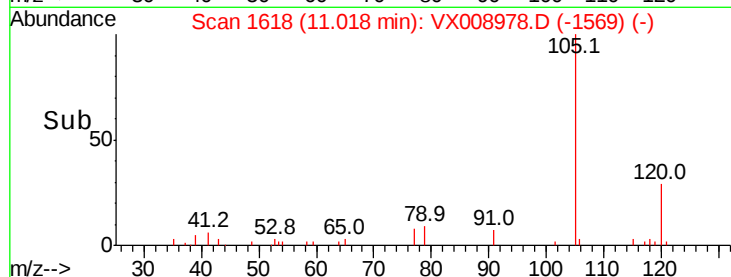
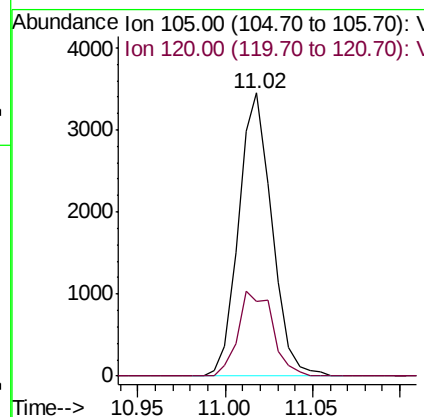
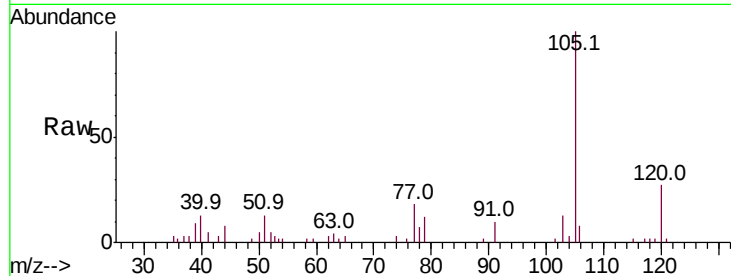
#73
Isopropylbenzene
Concen: 0.439 ug/l
RT: 11.02 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
105	100		
120	31.3	12.9	38.7

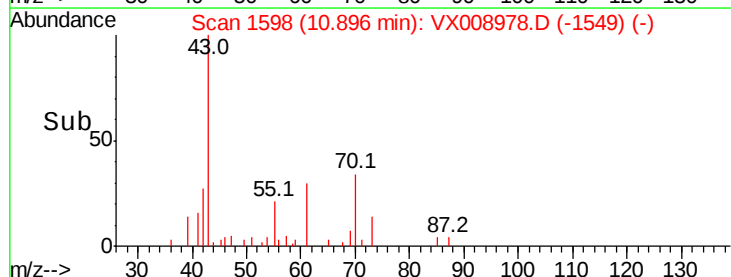
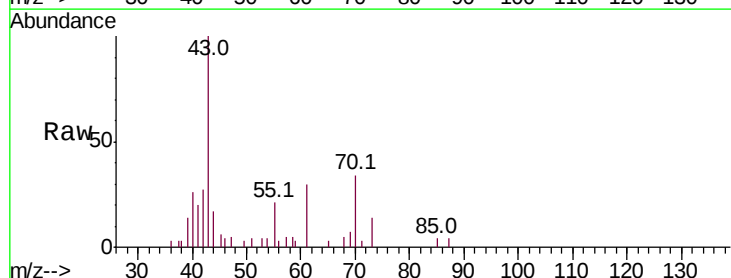
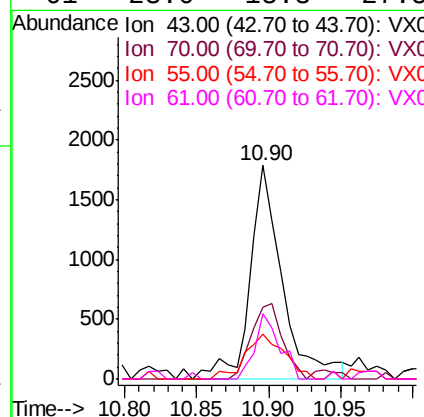
Manual Integrations
APPROVED

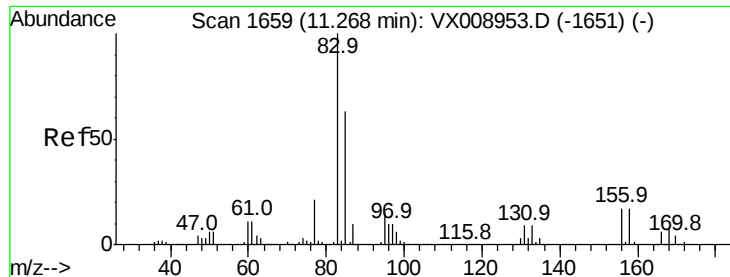
MMDadoda
4/17/2019 9:58:47 AM



#74
N-ethyl acetate
Concen: 0.465 ug/l
RT: 10.90 min Scan# 1598
Delta R.T. 0.00 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Tgt Ion	Ratio	Lower	Upper
43	100		
70	33.8	29.9	44.9
55	24.8	17.8	26.8
61	23.0	18.3	27.5





#75

1,1,2,2-Tetrachloroethane

Concen: 0.504 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

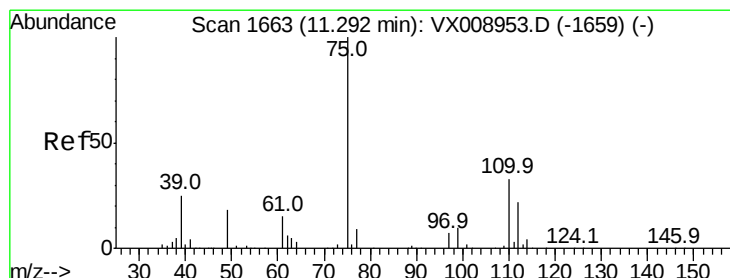
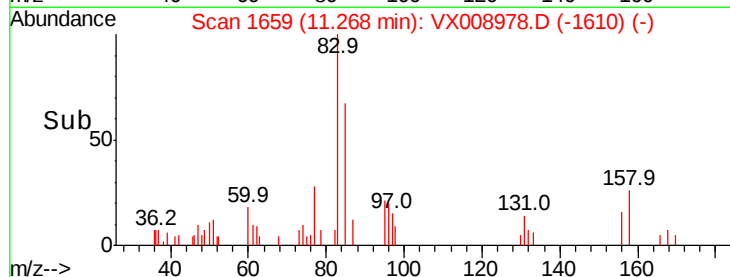
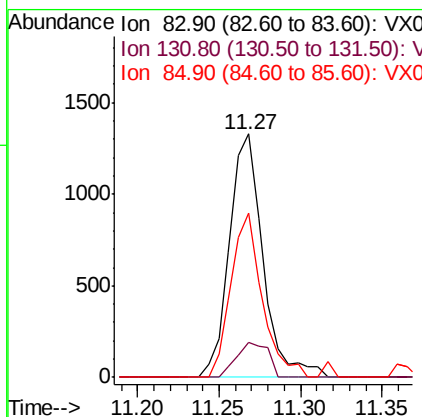
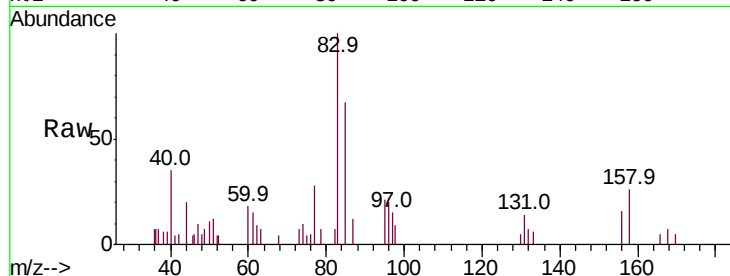
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	83	Resp:	1907
Ion	Ratio	Lower	Upper
83	100		
131	13.4	4.7	14.0
85	62.8	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
4/17/2019 9:58:47 AM



#76

1,2,3-Trichloropropane

Concen: 0.559 ug/l m

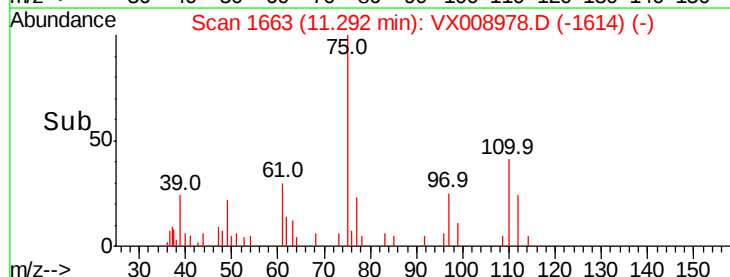
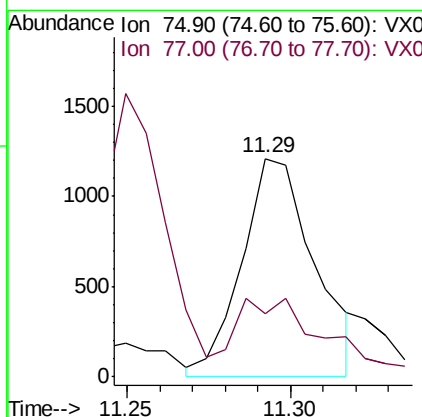
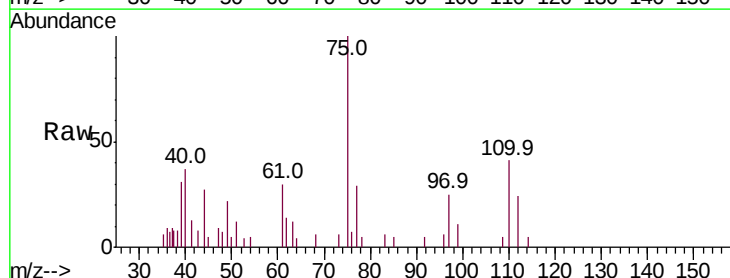
RT: 11.29 min Scan# 1663

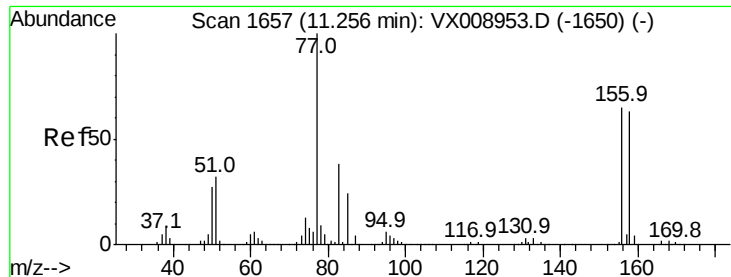
Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Tgt Ion:	75	Resp:	1868
Ion	Ratio	Lower	Upper
75	100		
77	58.2	22.7	68.0





#77

Bromobenzene

Concen: 0.441 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

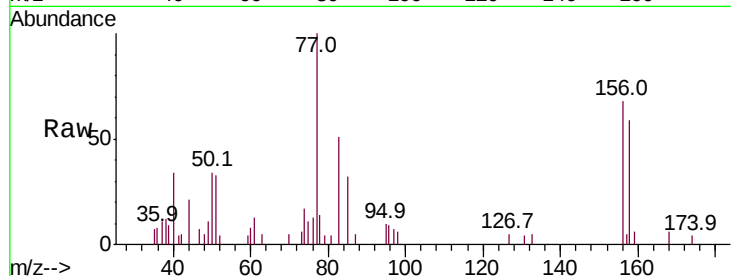
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

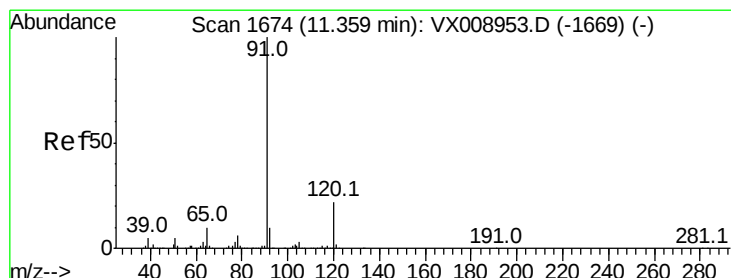
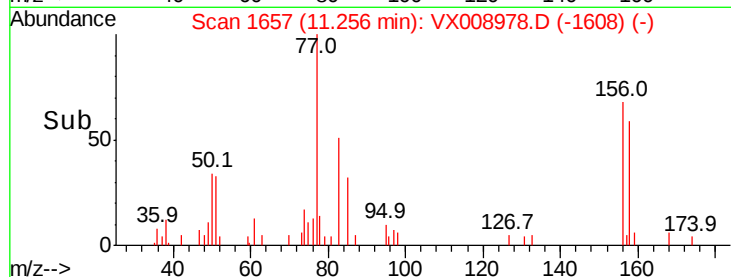
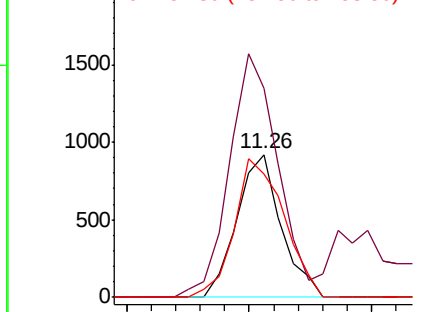
Tot Ion:	156	Resp:	1154
Ion	Ratio	Lower	Upper
156	100		
77	185.8	85.4	256.1
158	108.4	48.8	146.4

Manual Integrations
APPROVED

MMDadoda
4/17/2019 9:58:47 AM



Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VX0
Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 0.437 ug/l

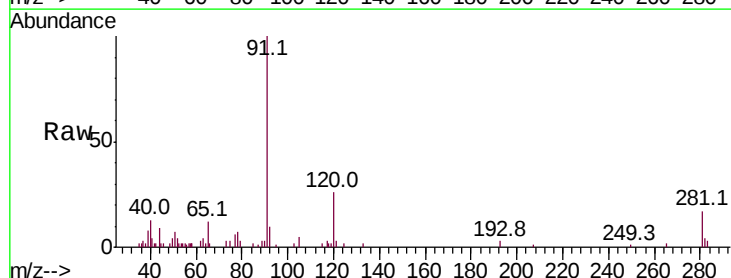
RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

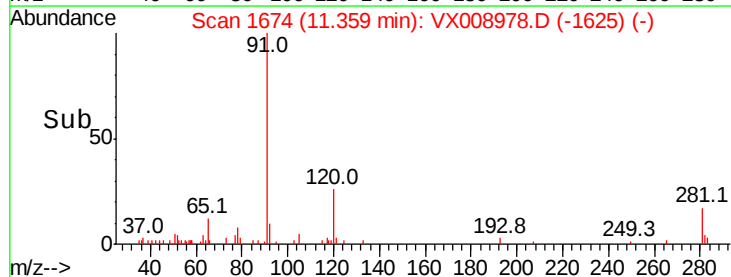
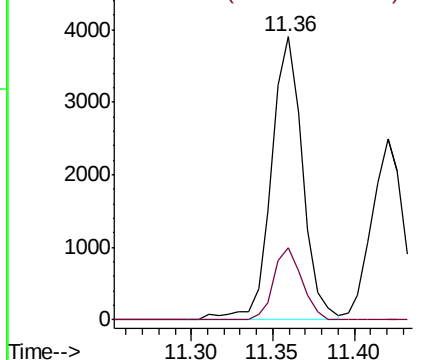
Lab File: VX008978.D

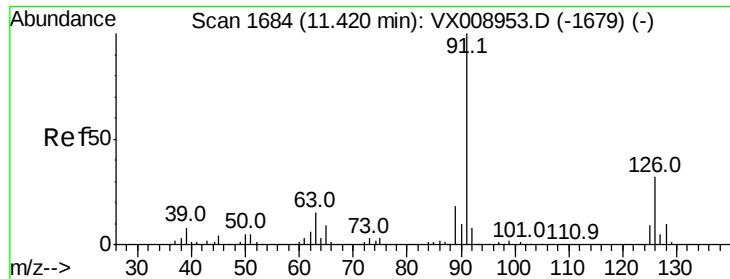
Acq: 16 Apr 2019 11:35

Tgt Ion:	91	Resp:	5195
Ion	Ratio	Lower	Upper
91	100		
120	23.0	10.9	32.9



Abundance Ion 91.00 (90.70 to 91.70): VX0
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 0.496 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 91 Resp: 3555

Ion Ratio Lower Upper

91 100

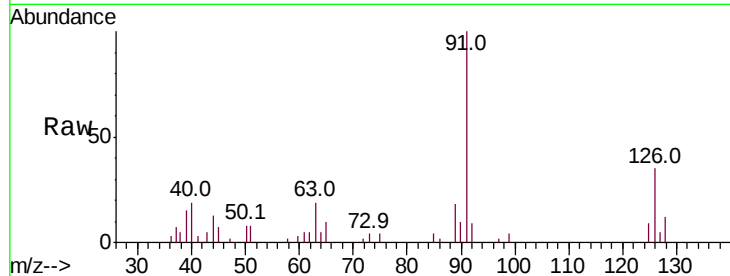
126 33.1 16.3 48.9

Manual Integrations

APPROVED

MMDadoda

4/17/2019 9:58:47 AM



Abundance Ion 91.00 (90.70 to 91.70): VX008953.D (-1679) (-)

Ion 125.90 (125.60 to 126.60): VX008953.D (-1679) (-)

4000

3000

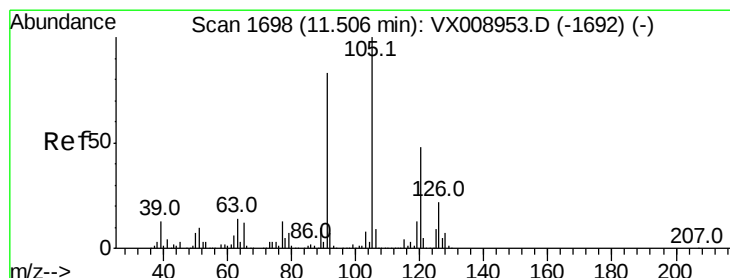
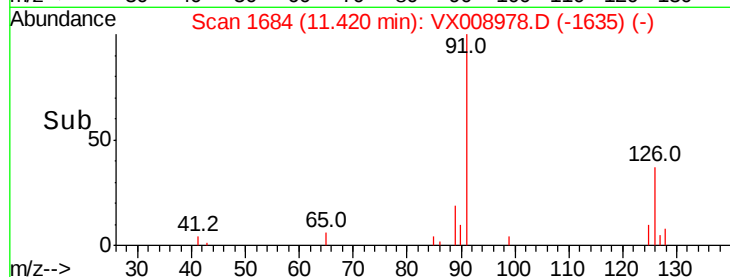
2000

1000

0

11.35 11.40 11.45 11.50

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.425 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX008978.D

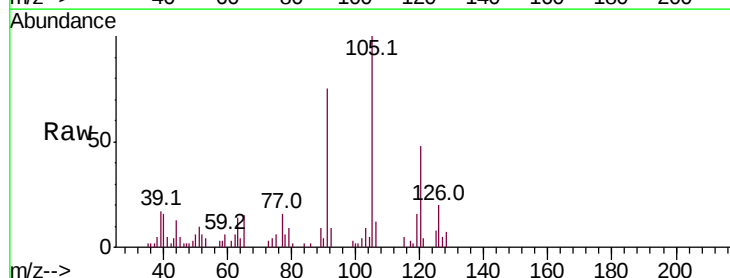
Acq: 16 Apr 2019 11:35

Tgt Ion: 105 Resp: 3697

Ion Ratio Lower Upper

105 100

120 52.4 24.1 72.3



Abundance Ion 105.00 (104.70 to 105.70): VX008953.D (-1692) (-)

Ion 120.00 (119.70 to 120.70): VX008953.D (-1692) (-)

3000

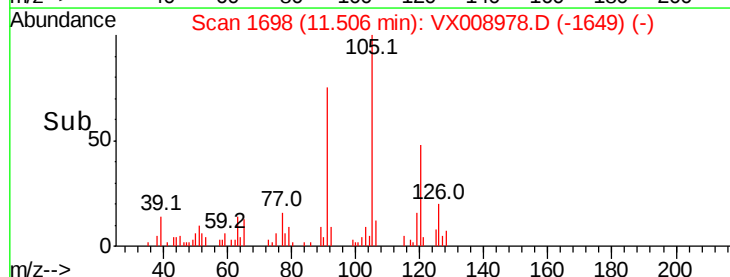
2000

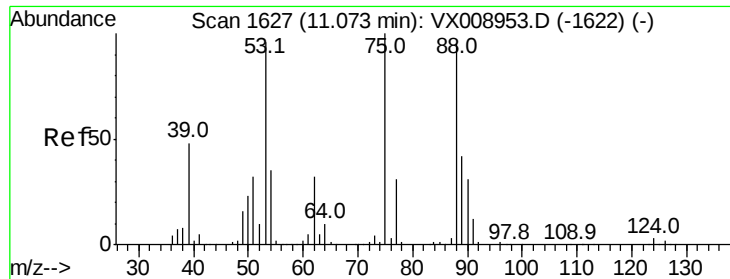
1000

0

11.45 11.50 11.55

Time-->





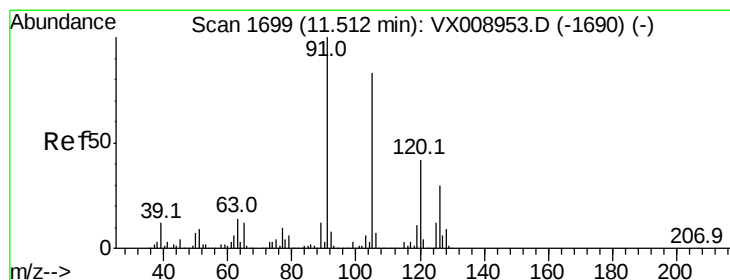
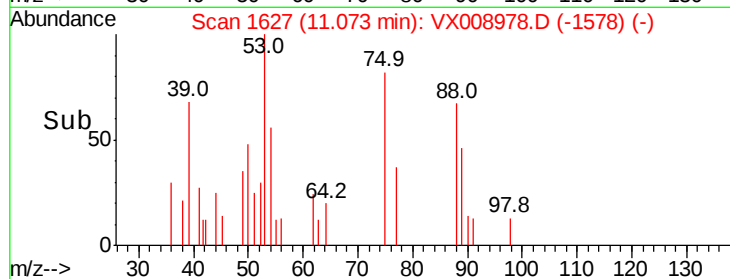
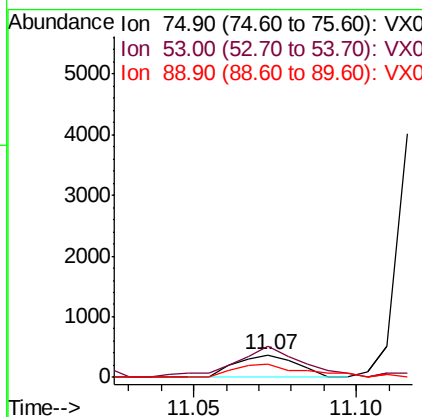
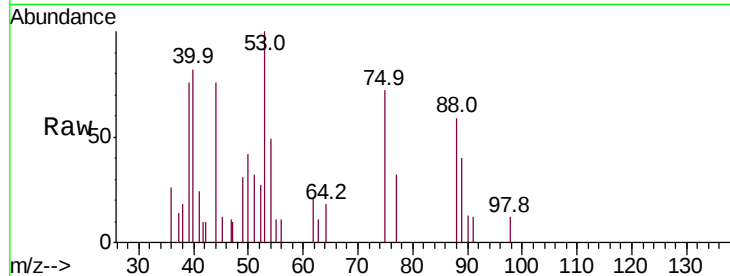
#81
trans-1,4-Dichloro-2-butene
Concen: 0.372 ug/l m
RT: 11.07 min Scan# 1627
Delta R.T. 0.00 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion: 75 Resp: 484
Ion Ratio Lower Upper
75 100
53 5.2 78.2 117.4#
89 0.0 36.0 54.0#

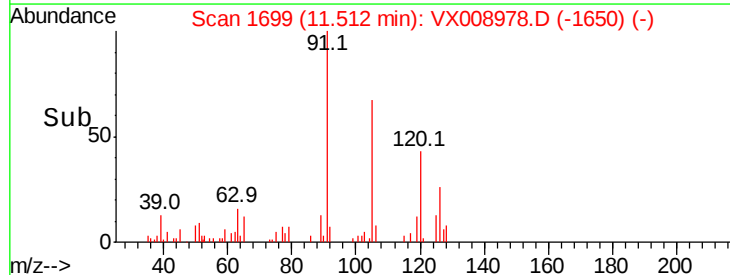
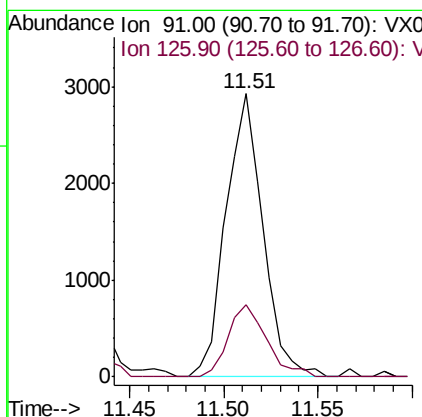
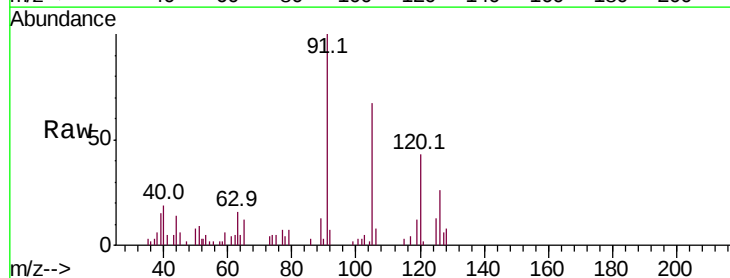
Manual Integrations
APPROVED

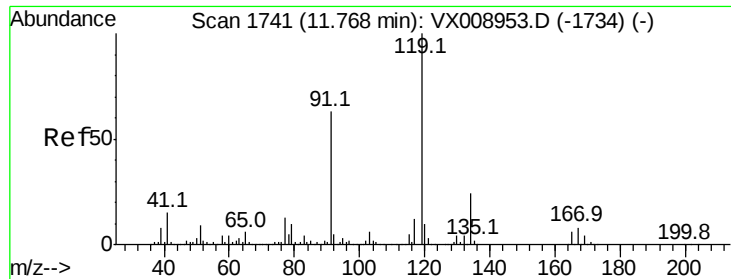
MMDadoda
4/17/2019 9:58:47 AM



#82
4-Chlorotoluene
Concen: 0.479 ug/l
RT: 11.51 min Scan# 1699
Delta R.T. 0.00 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Tgt Ion: 91 Resp: 3985
Ion Ratio Lower Upper
91 100
126 26.5 14.3 42.9





#83

tert-Butylbenzene

Concen: 0.453 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

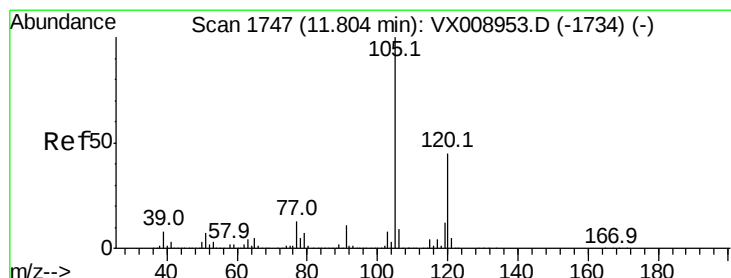
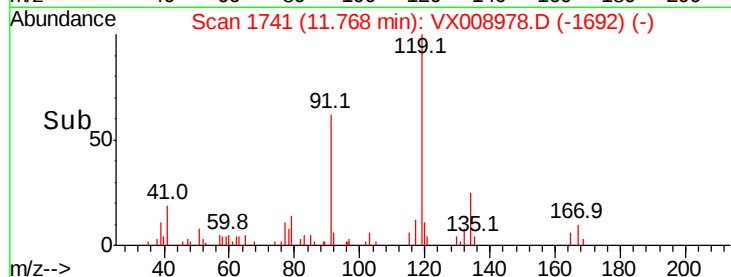
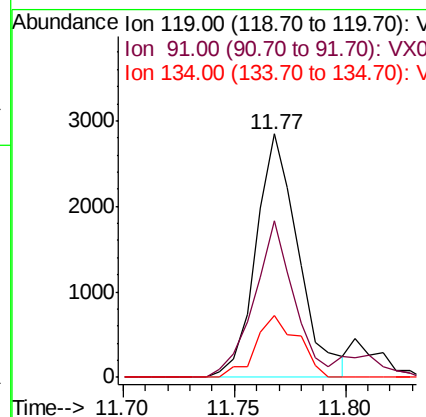
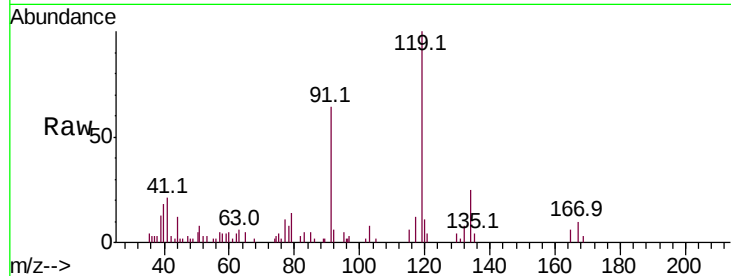
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	119	Resp:	3781
Ion Ratio	Lower	Upper	
119	100		
91	60.5	29.7	89.1
134	25.4	11.2	33.5

Manual Integrations
APPROVED

MMDadoda
4/17/2019 9:58:47 AM



#84

1,2,4-Trimethylbenzene

Concen: 0.411 ug/l

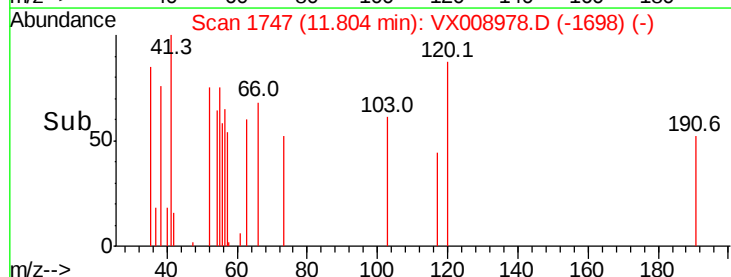
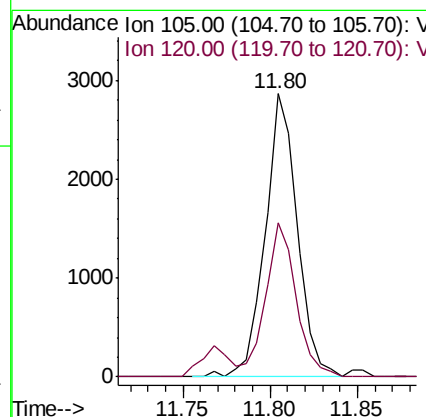
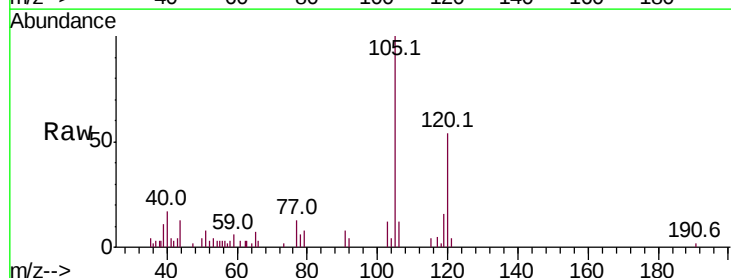
RT: 11.80 min Scan# 1747

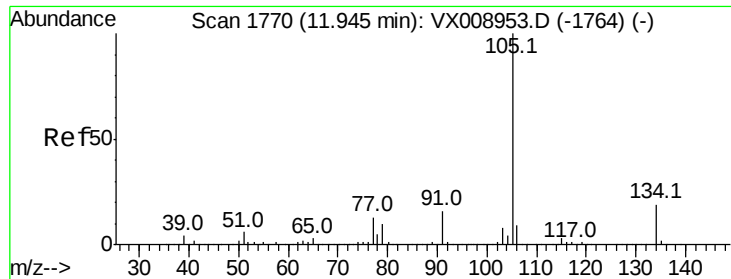
Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Tgt Ion:	105	Resp:	3643
Ion Ratio	Lower	Upper	
105	100		
120	51.9	21.9	65.8





#85

sec-Butylbenzene

Concen: 0.416 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:105 Resp: 4142

Ion Ratio Lower Upper

105 100

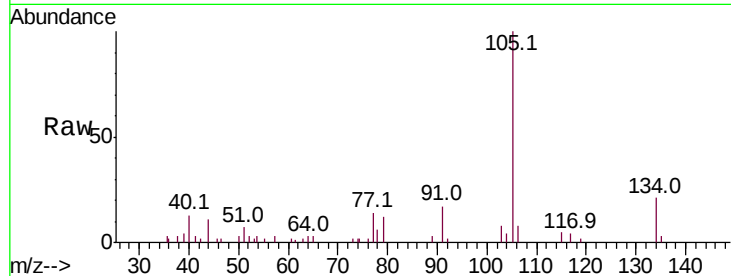
134 18.3 9.6 28.6

Manual Integrations

APPROVED

MMDadoda

4/17/2019 9:58:47 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

11.94

4000

3000

2000

1000

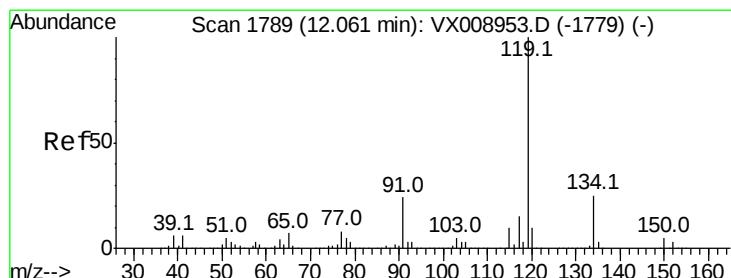
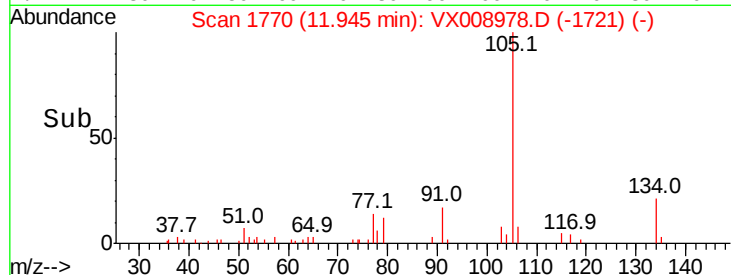
0

Time-->

11.90

11.95

12.00



#86

p-Isopropyltoluene

Concen: 0.411 ug/l

RT: 12.07 min Scan# 1790

Delta R.T. 0.01 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

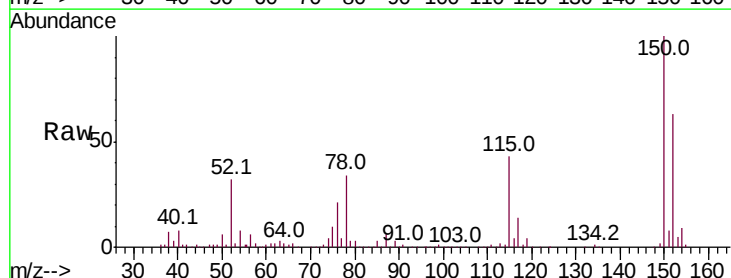
Tgt Ion:119 Resp: 3761

Ion Ratio Lower Upper

119 100

134 29.8 12.9 38.6

91 35.7 11.9 35.5#



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0

12.07

3000

2000

1000

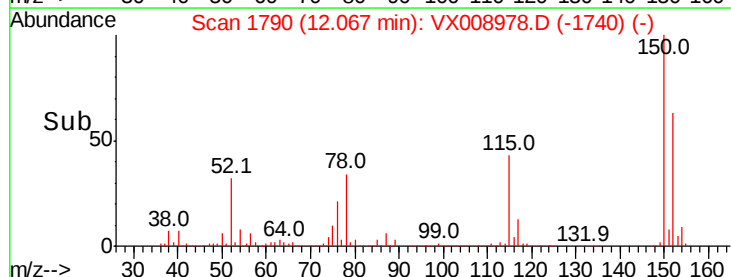
0

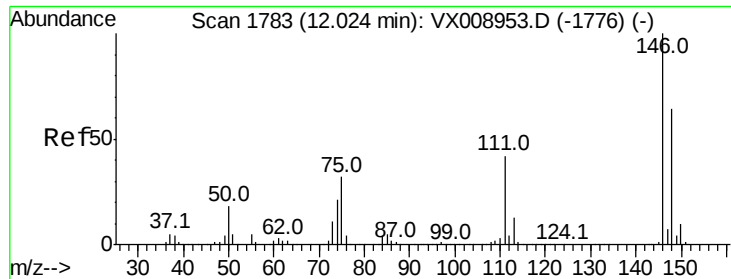
Time-->

12.00

12.05

12.10





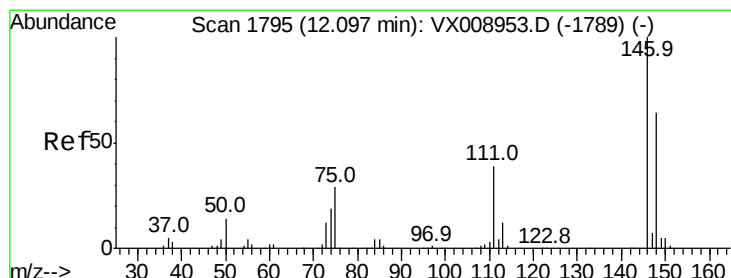
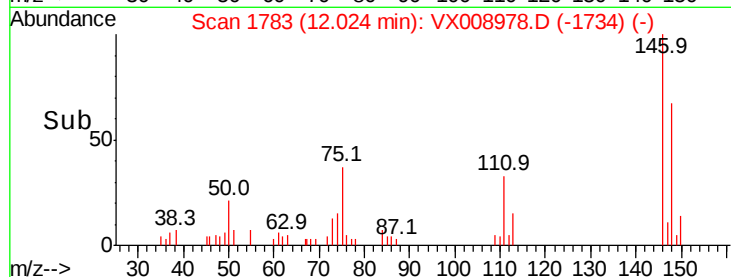
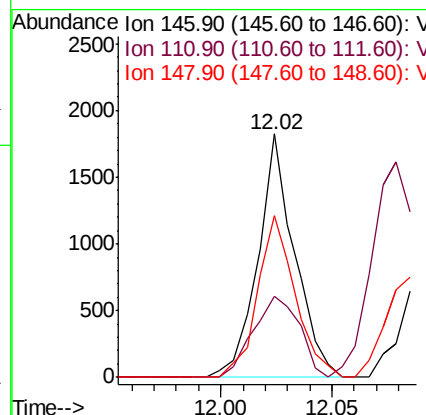
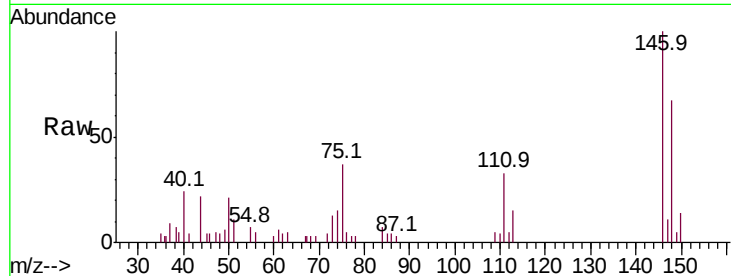
#87
 1,3-Dichlorobenzene
 Concen: 0.456 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. 0.00 min
 Lab File: VX008978.D
 Acq: 16 Apr 2019 11:35

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.9	20.5	61.6
148	68.3	32.2	96.6

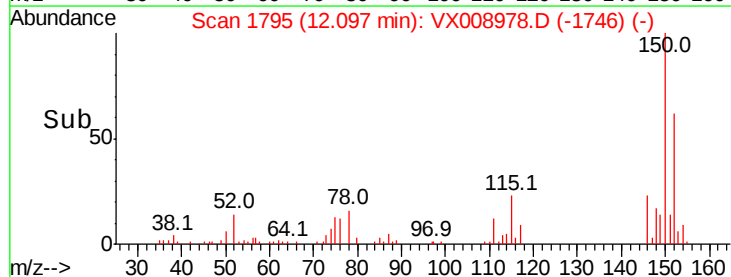
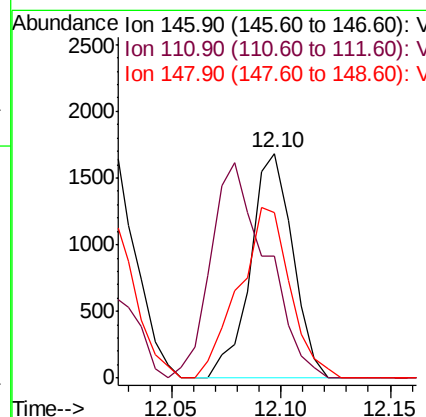
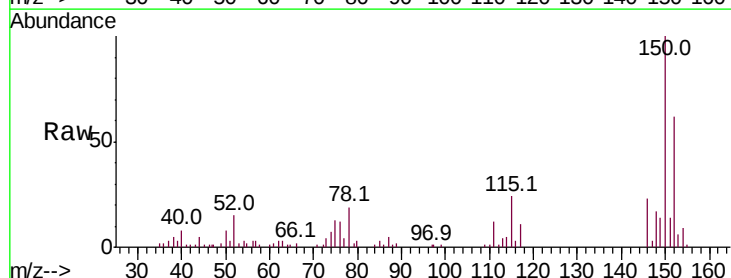
Manual Integrations
 APPROVED

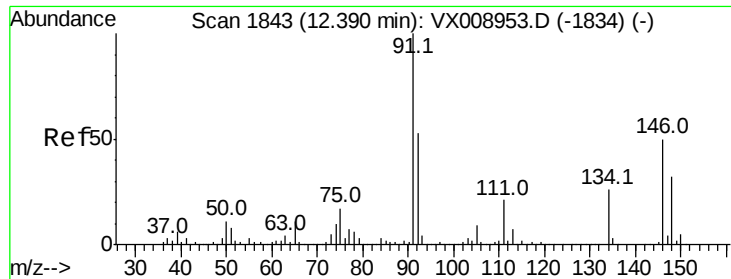
MMDadoda
 4/17/2019 9:58:47 AM



#88
 1,4-Dichlorobenzene
 Concen: 0.487 ug/l m
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VX008978.D
 Acq: 16 Apr 2019 11:35

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.7	20.0	59.9
148	63.0	32.2	96.6





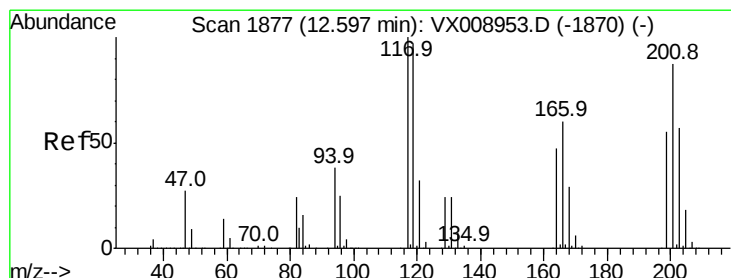
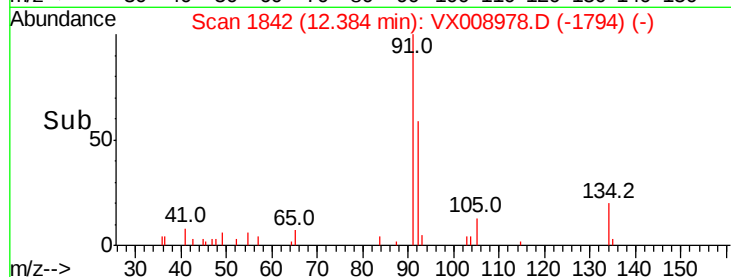
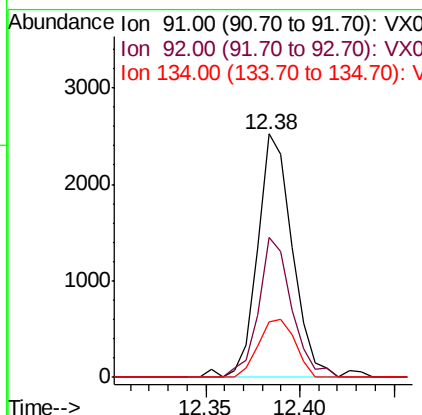
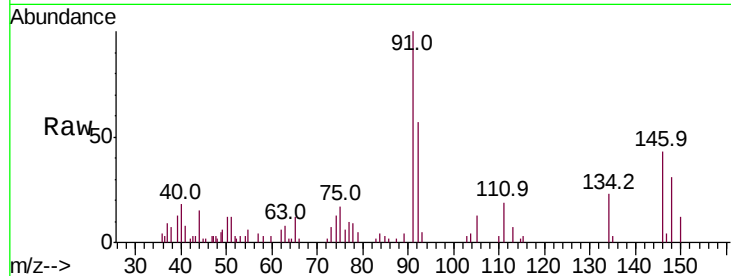
#89
n-Butylbenzene
Concen: 0.377 ug/l
RT: 12.38 min Scan# 1842
Delta R.T. -0.01 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Instrument :
MSVOA_X
ClientSampleId :
MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
91	100		
92	55.0	26.6	79.8
134	25.1	12.4	37.2

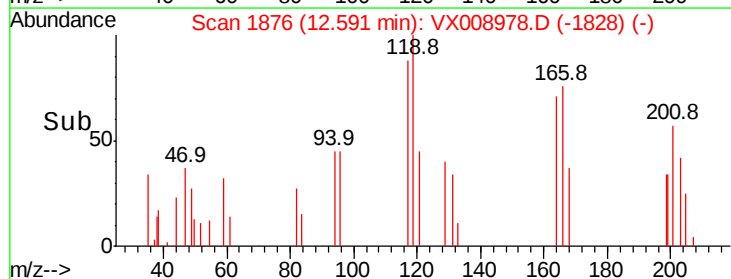
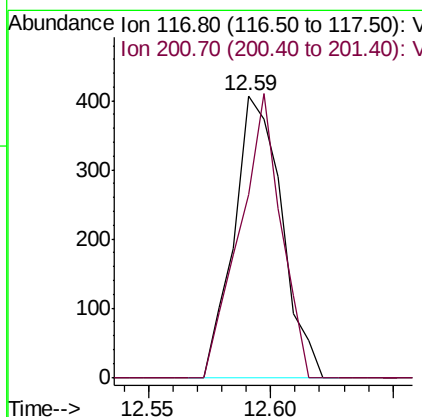
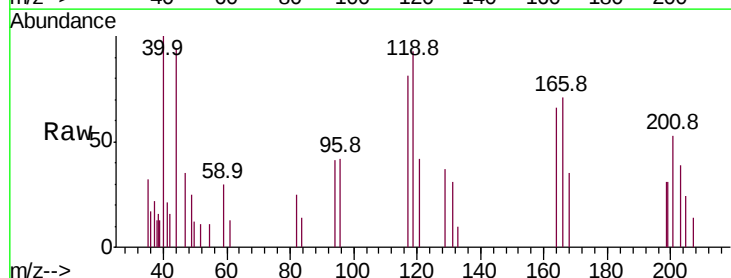
Manual Integrations
APPROVED

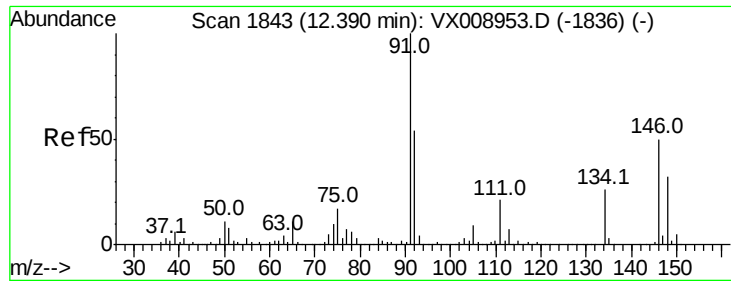
MMDadoda
4/17/2019 9:58:47 AM



#90
Hexachloroethane
Concen: 0.363 ug/l
RT: 12.59 min Scan# 1876
Delta R.T. -0.01 min
Lab File: VX008978.D
Acq: 16 Apr 2019 11:35

Tgt Ion	Ratio	Lower	Upper
117	100		
201	87.1	43.0	129.0





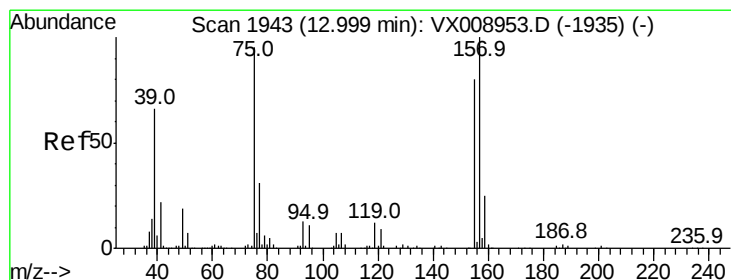
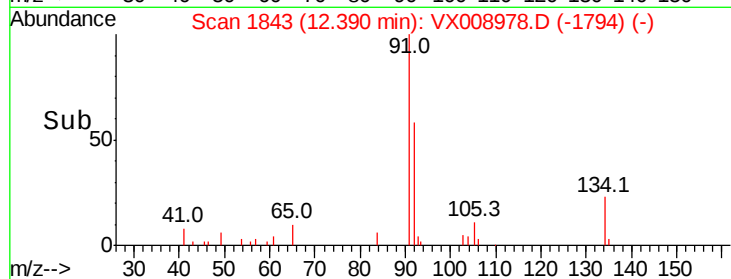
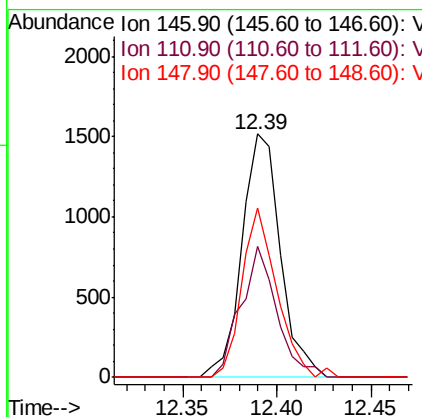
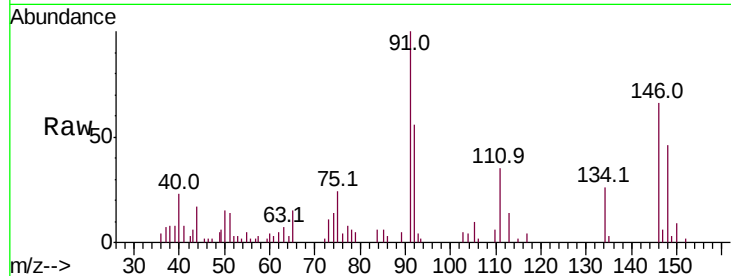
#91
 1,2-Dichlorobenzene
 Concen: 0.474 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. 0.00 min
 Lab File: VX008978.D
 Acq: 16 Apr 2019 11:35

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	50.6	20.6	61.9
148	63.4	32.0	96.2

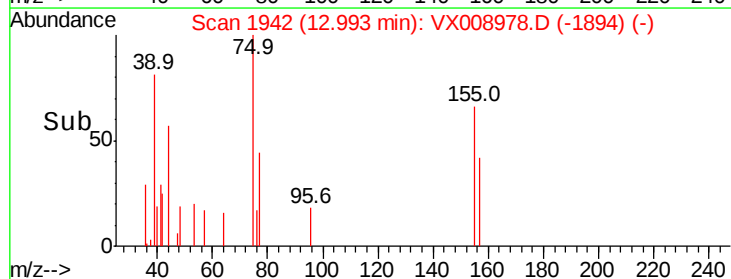
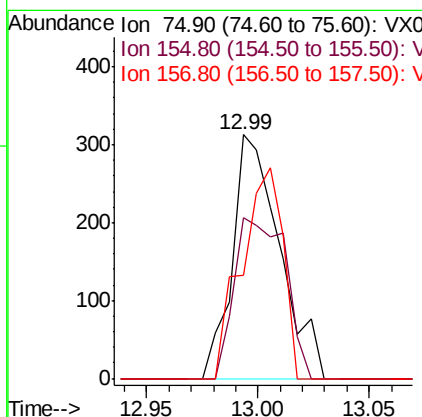
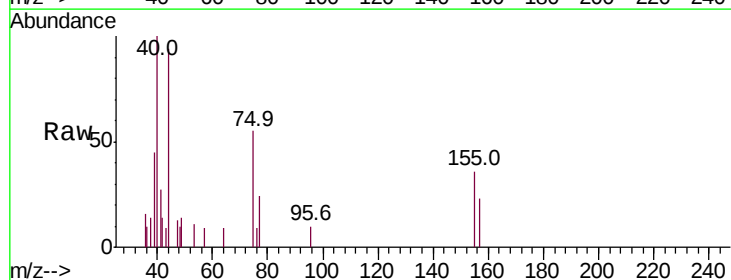
Manual Integrations
 APPROVED

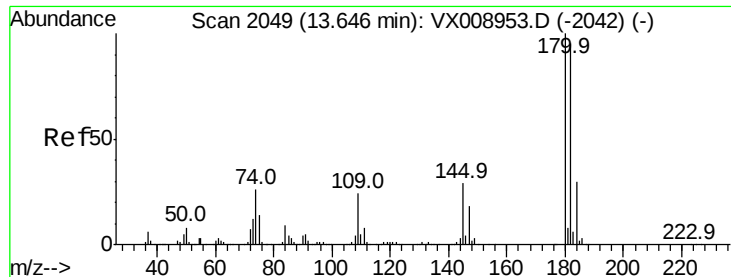
MMDadoda
 4/17/2019 9:58:47 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.539 ug/l
 RT: 12.99 min Scan# 1942
 Delta R.T. -0.01 min
 Lab File: VX008978.D
 Acq: 16 Apr 2019 11:35

Tgt Ion	Ratio	Lower	Upper
75	100		
155	71.2	41.2	123.6
157	75.1	52.5	157.6





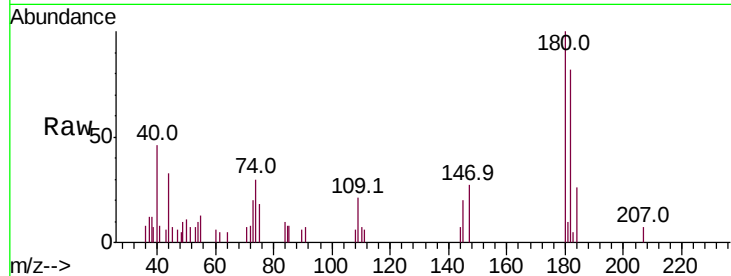
#93
 1,2,4-Trichlorobenzene
 Concen: 0.411 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. 0.00 min
 Lab File: VX008978.D
 Acq: 16 Apr 2019 11:35

Instrument :
 MSVOA_X
 ClientSampleId :
 MDL-MDL-WATER-03-QT2-2019

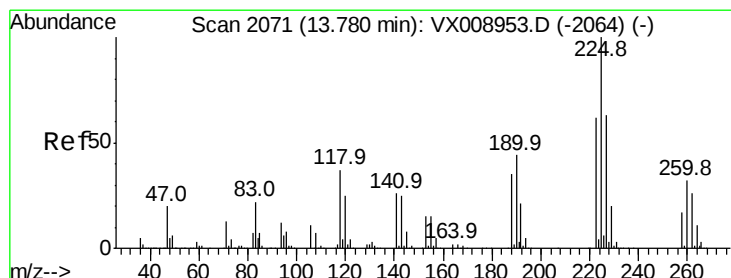
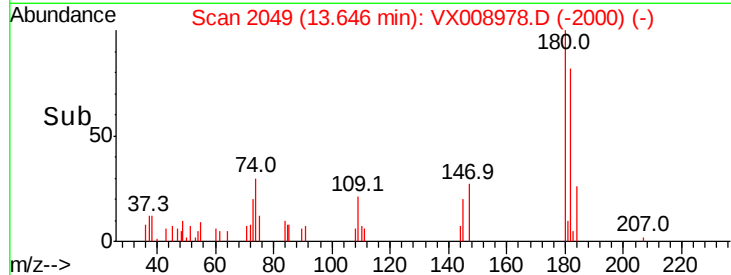
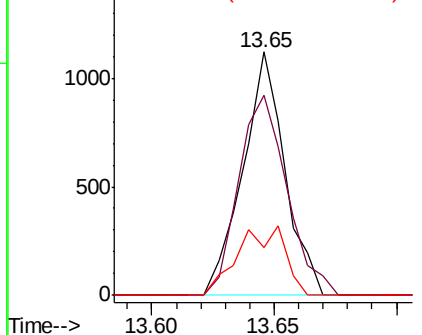
Tot Ion	Ratio	Resp	Lower	Upper
180	100	1342		
182	94.1		47.6	142.9
145	32.0		14.8	44.4

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 9:58:47 AM

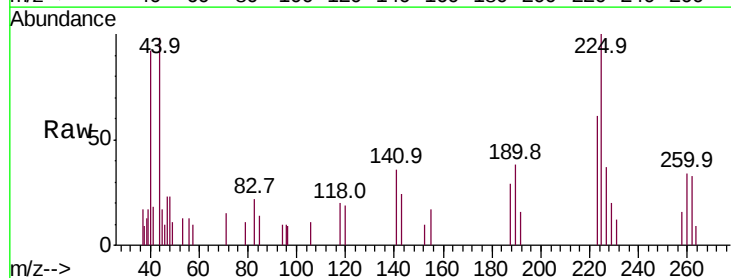


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

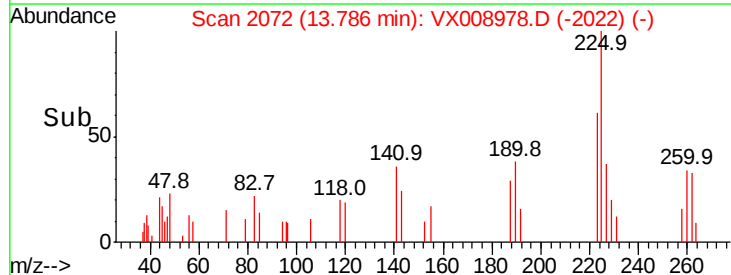
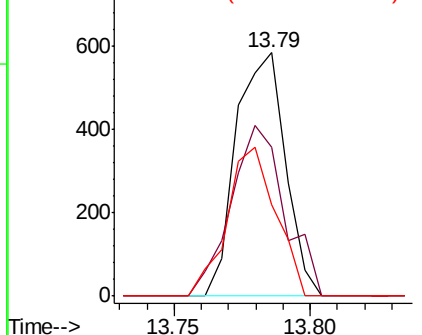


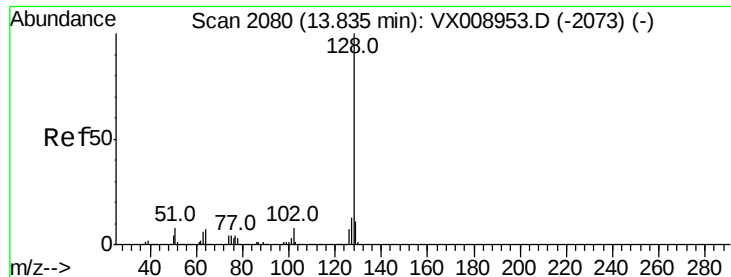
#94
 Hexachlorobutadiene
 Concen: 0.450 ug/l
 RT: 13.79 min Scan# 2072
 Delta R.T. 0.01 min
 Lab File: VX008978.D
 Acq: 16 Apr 2019 11:35

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	732		
223	76.8		31.1	93.2
227	60.5		32.0	96.2



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





#95

Naphthalene

Concen: 0.375 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Instrument :

MSVOA_X

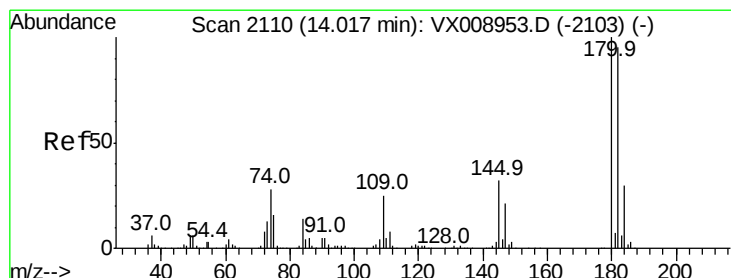
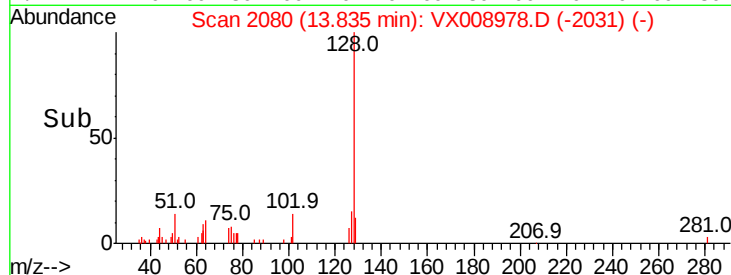
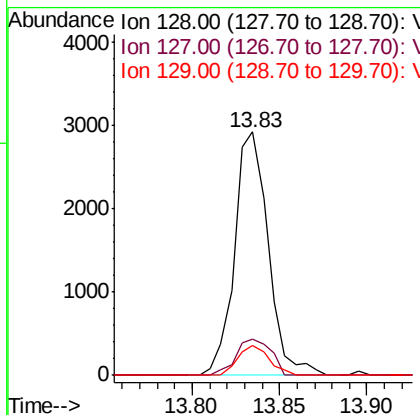
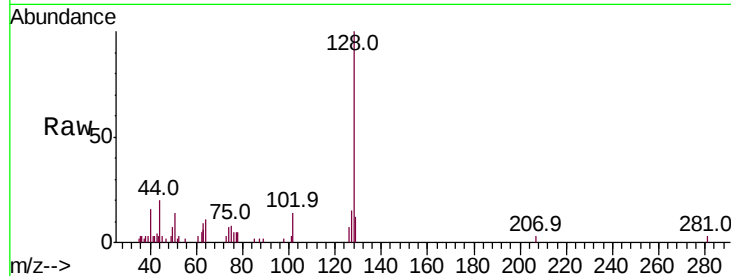
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	128	Resp:	3918
Ion Ratio	Lower	Upper	
128	100		
127	15.4	10.6	16.0
129	11.4	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
4/17/2019 9:58:47 AM



#96

1,2,3-Trichlorobenzene

Concen: 0.431 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VX008978.D

Acq: 16 Apr 2019 11:35

Tgt Ion:	180	Resp:	1386
Ion Ratio	Lower	Upper	
180	100		
182	95.5	47.8	143.4
145	36.7	15.8	47.3

