

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN031319\
 Data File : VN054205.D
 Acq On : 13 Mar 2019 11:43
 Operator : JC/SP
 Sample : K1560-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 10:27:04 AM

Quant Time: Mar 14 06:38:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031219W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 13 03:33:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	1539667	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	2235847	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1942494	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	789528	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	818981	50.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.18%	
35) Dibromofluoromethane	7.59	113	732282	50.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.56%	
50) Toluene-d8	10.09	98	2682302	50.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.74%	
62) 4-Bromofluorobenzene	12.40	95	872560	46.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.66%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	7208	0.494	ug/l	97
3) Chloromethane	2.06	50	8867	0.626	ug/l	98
4) Vinyl Chloride	2.19	62	10211	0.630	ug/l	97
5) Bromomethane	2.57	94	13448	1.199	ug/l	97
6) Chloroethane	2.71	64	6995	0.714	ug/l #	84
7) Trichlorofluoromethane	3.02	101	13565	0.630	ug/l	89
8) Diethyl Ether	3.41	74	6168m	0.628	ug/l	
9) 1,1,2-Trichlorotrifluoroet	3.75	101	8696	0.539	ug/l #	57
10) Methyl Iodide	3.94	142	28578	2.706	ug/l	97
11) Tert butyl alcohol	4.82	59	12004	10.709	ug/l	100
12) 1,1-Dichloroethene	3.73	96	8471	0.530	ug/l	96
13) Acrolein	3.61	56	12641	11.901	ug/l	85
14) Allyl chloride	4.31	41	8744	0.426	ug/l #	71
15) Acrylonitrile	5.00	53	11514m	2.501	ug/l	
16) Acetone	3.82	43	15955	3.408	ug/l #	86
17) Carbon Disulfide	4.04	76	19479	0.486	ug/l #	94
18) Methyl Acetate	4.33	43	5744	0.606	ug/l #	78
19) Methyl tert-butyl Ether	5.05	73	21019	0.530	ug/l	96
20) Methylene Chloride	4.54	84	10186m	0.663	ug/l	
21) trans-1,2-Dichloroethene	5.04	96	7835	0.511	ug/l	97
22) Diisopropyl ether	5.96	45	19704	0.481	ug/l	88
23) Vinyl Acetate	5.90	43	54867	1.817	ug/l	99
24) 1,1-Dichloroethane	5.84	63	13884	0.528	ug/l	94
25) 2-Butanone	6.85	43	11807	2.149	ug/l	91
26) 2,2-Dichloropropane	6.82	77	10594	0.458	ug/l	97
27) cis-1,2-Dichloroethene	6.82	96	9375	0.548	ug/l	95
28) Bromochloromethane	7.19	49	5407	0.503	ug/l #	88
29) Tetrahydrofuran	7.22	42	8914	2.523	ug/l	95
30) Chloroform	7.37	83	14192	0.517	ug/l	94
32) 1,1,1-Trichloroethane	7.57	97	12461	0.503	ug/l #	50
36) 1,1-Dichloropropene	7.79	75	13471	0.654	ug/l #	80
37) Ethyl Acetate	6.94	43	7785m	0.658	ug/l	
38) Carbon Tetrachloride	7.77	117	13209	0.612	ug/l	92
39) Methylcyclohexane	9.08	83	13573	0.536	ug/l	94

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MMDadoda
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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	8.04	78	31337	0.532	ug/l	93
41) Methacrylonitrile	7.18	41	2079	0.308	ug/l #	72
42) 1,2-Dichloroethane	8.13	62	11210	0.564	ug/l	95
43) Isopropyl Acetate	8.17	43	9178	0.442	ug/l	96
44) Trichloroethene	8.84	130	10543	0.576	ug/l	89
45) 1,2-Dichloropropane	9.12	63	7809	0.534	ug/l #	82
46) Dibromomethane	9.21	93	5484	0.555	ug/l	92
47) Bromodichloromethane	9.40	83	9981	0.504	ug/l	94
48) Methyl methacrylate	9.20	41	5599	0.531	ug/l	88
49) 1,4-Dioxane	9.21	88	1306	8.761	ug/l #	74
51) 4-Methyl-2-Pentanone	9.99	43	26668	2.427	ug/l	98
52) Toluene	10.16	92	20822	0.557	ug/l	95
53) t-1,3-Dichloropropene	10.38	75	9321	2.381	ug/l	97
54) cis-1,3-Dichloropropene	9.84	75	10737	0.465	ug/l	94
55) 1,1,2-Trichloroethane	10.56	97	7300	0.535	ug/l	92
56) Ethyl methacrylate	10.43	69	7883	0.485	ug/l	93
57) 1,3-Dichloropropane	10.71	76	11069	0.496	ug/l	96
58) 2-Chloroethyl Vinyl ether	9.70	63	15227	18.841	ug/l	97
59) 2-Hexanone	10.75	43	16813	2.299	ug/l	97
60) Dibromochloromethane	10.90	129	6554	0.427	ug/l	99
61) 1,2-Dibromoethane	11.01	107	7185	0.518	ug/l	99
64) Tetrachloroethene	10.63	164	10881	0.579	ug/l	86
65) Chlorobenzene	11.43	112	23862	0.559	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.51	131	8000	0.516	ug/l #	62
67) Ethyl Benzene	11.51	91	39279	0.556	ug/l	97
68) m/p-Xylenes	11.62	106	27687	1.002	ug/l	94
69) o-Xylene	11.95	106	14914	0.554	ug/l	90
70) Stvrene	11.96	104	21129	0.500	ug/l	94
71) Bromoform	12.13	173	3889	2.664	ug/l #	97
73) Isopropylbenzene	12.25	105	38680	0.612	ug/l	97
74) N-amyl acetate	12.07	43	6706	0.478	ug/l	96
75) 1,1,2,2-Tetrachloroethane	12.51	83	7785	0.578	ug/l	95
76) 1,2,3-Trichloropropane	12.55	75	6828m	0.588	ug/l	
77) Bromobenzene	12.53	156	9404	0.563	ug/l	91
78) n-propylbenzene	12.59	91	39732	0.580	ug/l	99
79) 2-Chlorotoluene	12.67	91	25130	0.610	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	29257	0.557	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	1192m	0.351	ug/l	
82) 4-Chlorotoluene	12.77	91	24044	0.584	ug/l	96
83) tert-Butylbenzene	12.99	119	27523	0.569	ug/l	95
84) 1,2,4-Trimethylbenzene	13.04	105	28473	0.552	ug/l	97
85) sec-Butylbenzene	13.17	105	36723	0.586	ug/l	99
86) p-Isopropyltoluene	13.29	119	29187	0.530	ug/l	95
87) 1,3-Dichlorobenzene	13.28	146	16572	0.588	ug/l	98
88) 1,4-Dichlorobenzene	13.36	146	15829m	0.572	ug/l	
89) n-Butylbenzene	13.62	91	20448	0.489	ug/l	99
90) Hexachloroethane	13.88	117	4331	0.475	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	16137	0.586	ug/l	96
92) 1,2-Dibromo-3-Chloropropan	14.27	75	1002	0.481	ug/l	90
93) 1,2,4-Trichlorobenzene	14.91	180	6385	2.881	ug/l	96

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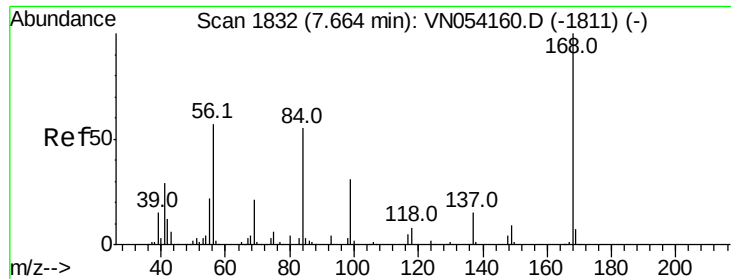
Manual Integrations
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Quant Title : SW846 8260
QLast Update : Wed Mar 13 03:33:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.01	225	6812	0.650	ug/l	97
95) Naphthalene	15.14	128	13558	3.834	ug/l	95
96) 1,2,3-Trichlorobenzene	15.32	180	6834	0.467	ug/l	93

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:168 Resp: 1539667

Ion Ratio Lower Upper

168 100

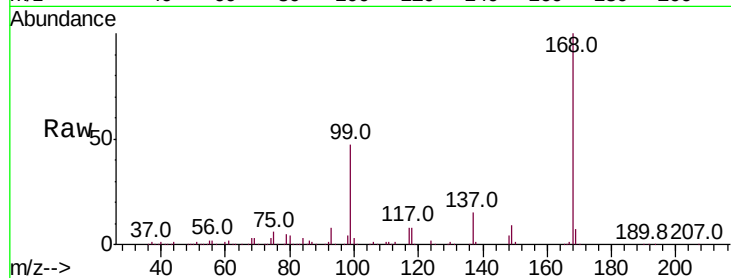
99 47.2 37.1 55.7

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.66

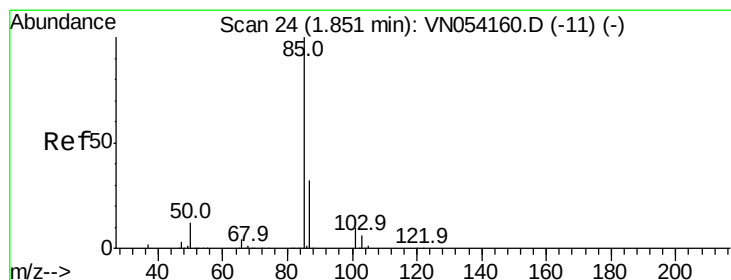
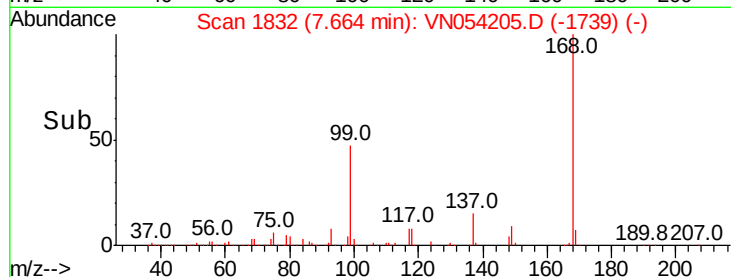
600000

400000

200000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#2

Dichlorodifluoromethane

Concen: 0.494 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN054205.D

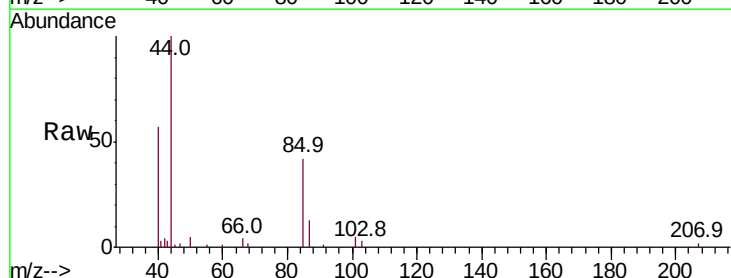
Acq: 13 Mar 2019 11:43

Tgt Ion: 85 Resp: 7208

Ion Ratio Lower Upper

85 100

87 30.3 15.9 47.7



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

6000

5000

4000

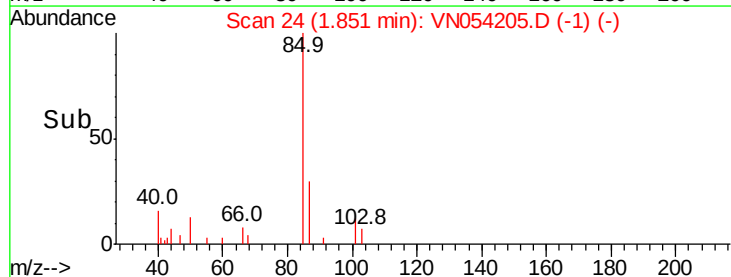
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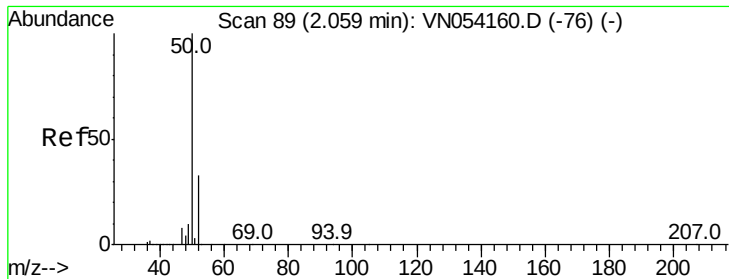
2000

1000

0

Time--> 1.80 1.85 1.90





#3

Chloromethane

Concen: 0.626 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Tot Ion: 50 Resp: 8867

Ion Ratio Lower Upper

50 100

52 34.1 26.4 39.6

Instrument :

MSVOA_N

ClientSampleId :

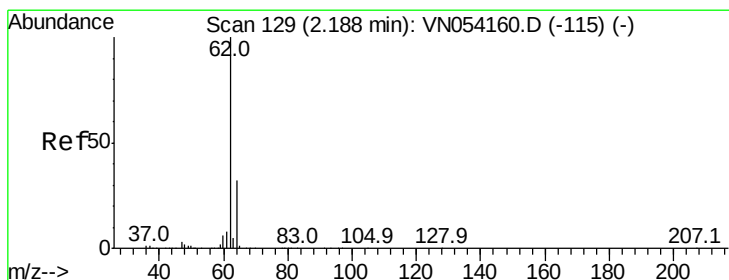
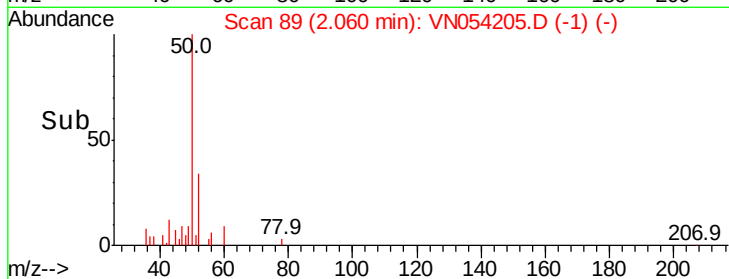
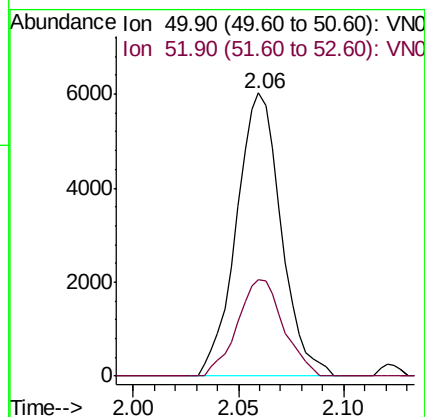
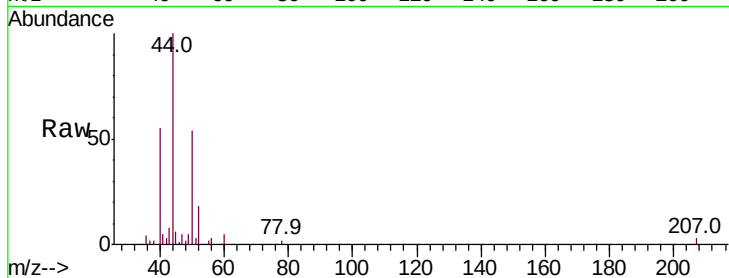
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#4

Vinyl Chloride

Concen: 0.630 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN054205.D

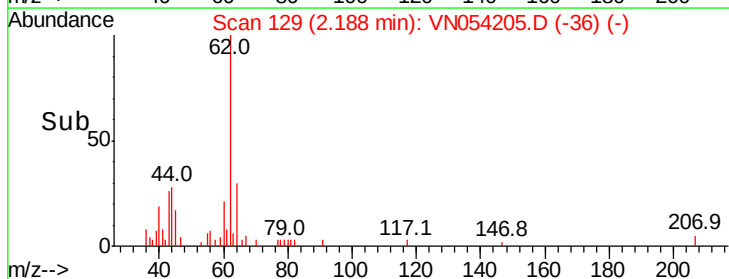
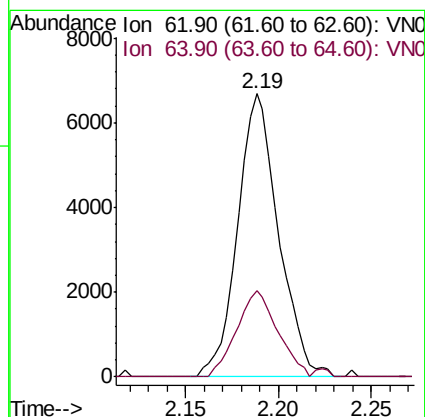
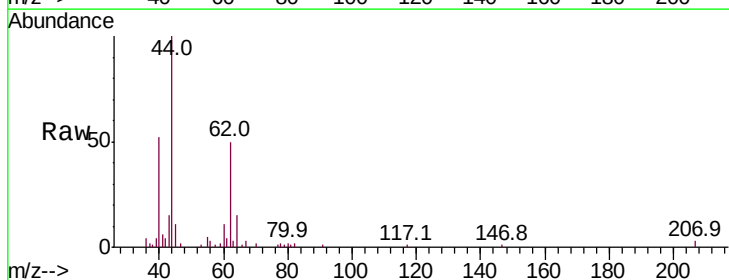
Acq: 13 Mar 2019 11:43

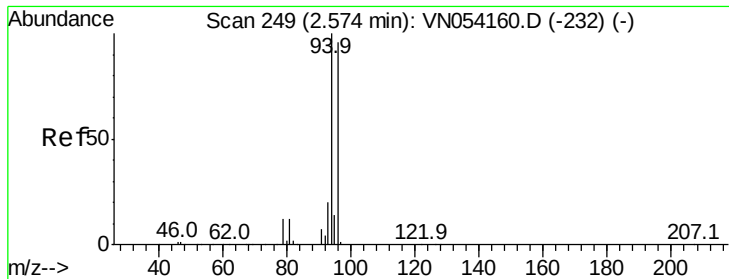
Tgt Ion: 62 Resp: 10211

Ion Ratio Lower Upper

62 100

64 30.3 25.5 38.3





#5

Bromomethane

Concen: 1.199 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 94 Resp: 13448

Ion Ratio Lower Upper

94 100

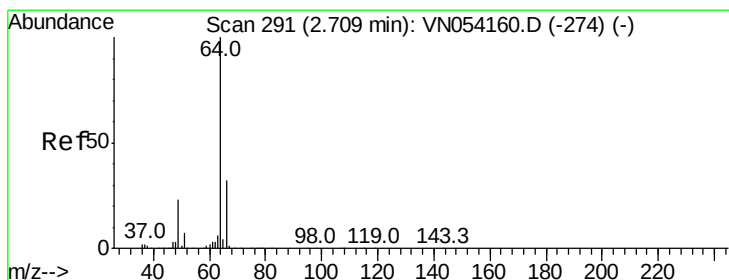
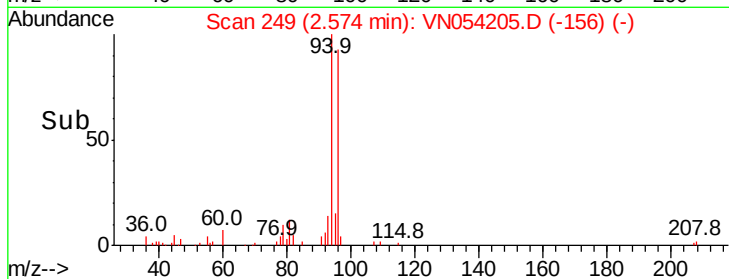
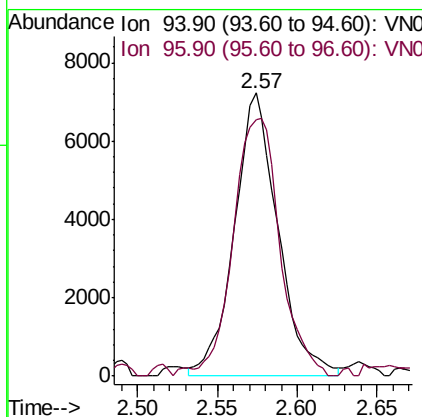
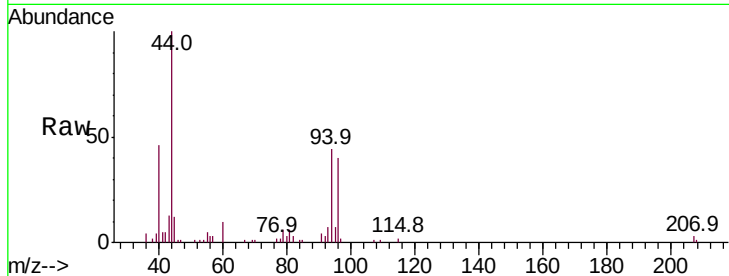
96 93.0 77.0 115.4

Manual Integrations

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#6

Chloroethane

Concen: 0.714 ug/l

RT: 2.71 min Scan# 291

Delta R.T. 0.00 min

Lab File: VN054205.D

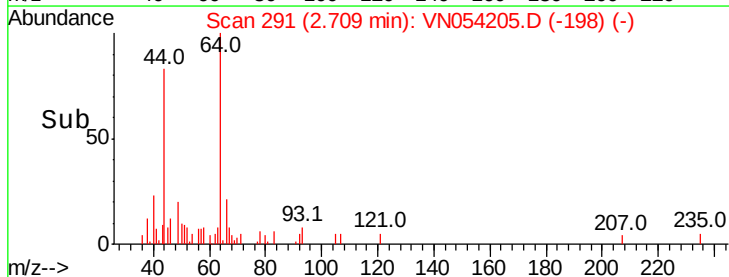
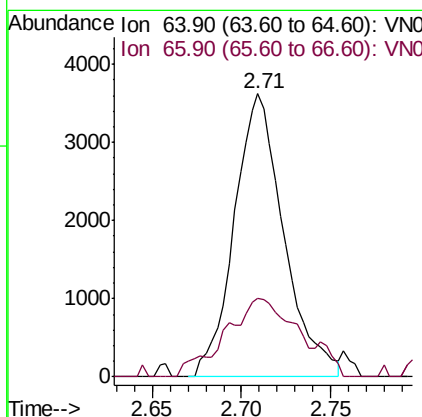
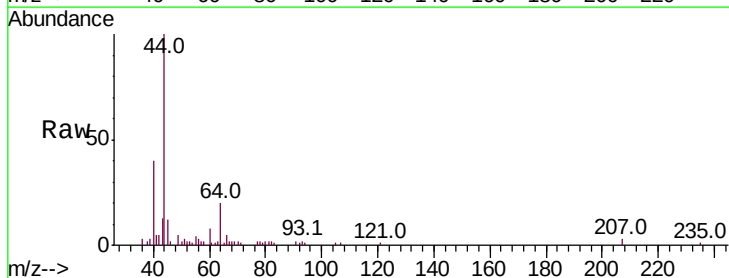
Acq: 13 Mar 2019 11:43

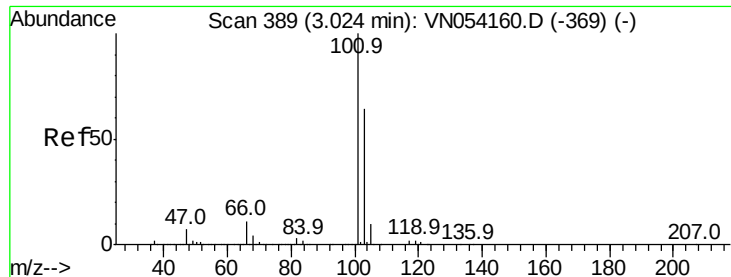
Tgt Ion: 64 Resp: 6995

Ion Ratio Lower Upper

64 100

66 23.1 25.7 38.5#





#7

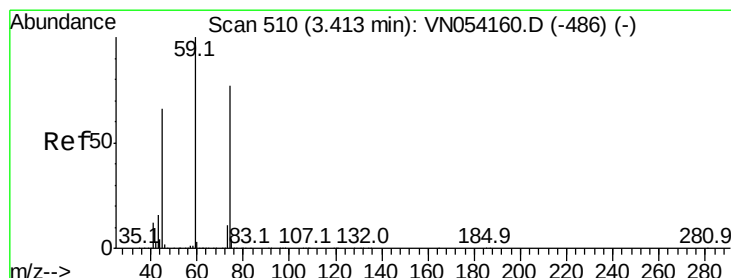
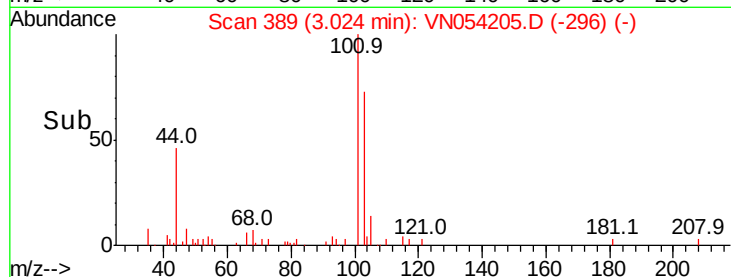
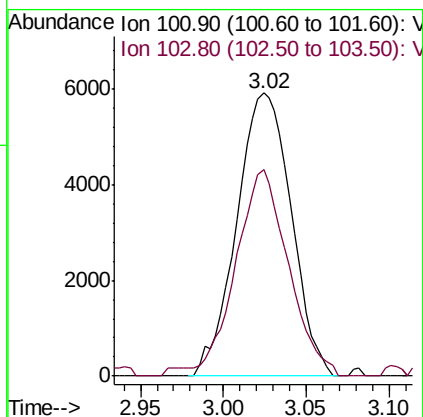
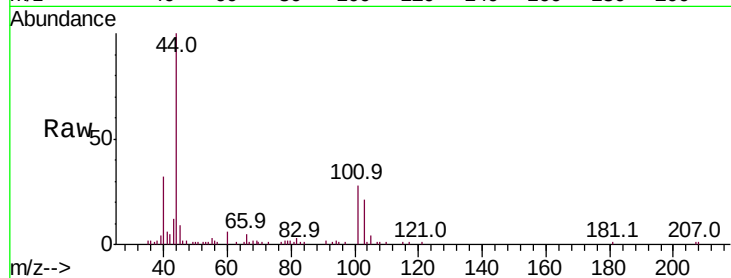
Trichlorofluoromethane
Concen: 0.630 ug/l
RT: 3.02 min Scan# 389
Delta R.T. 0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

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Tot Ion	Ratio	Lower	Upper
101	100		
103	73.1	51.4	77.2

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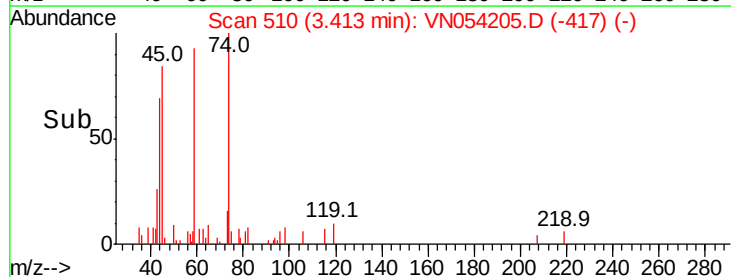
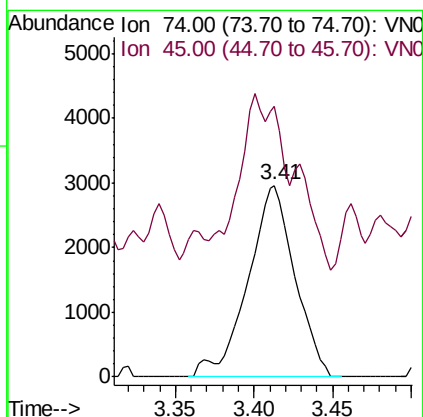
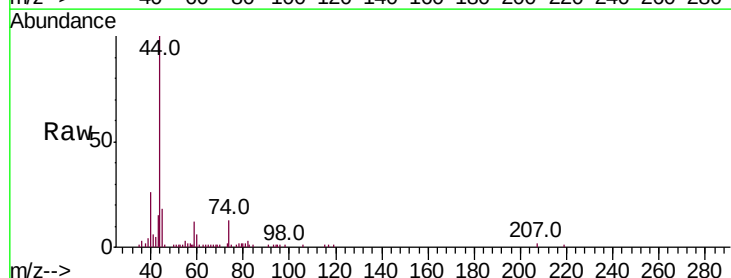
MMDadoda
3/14/2019 10:27:04 AM

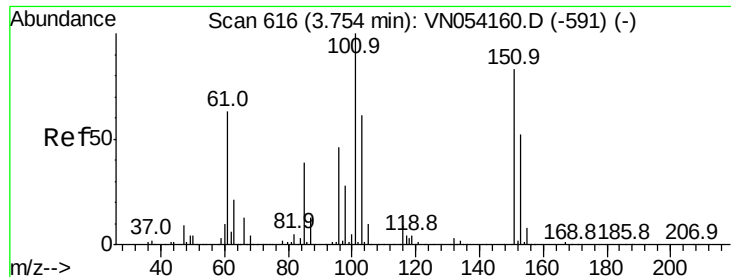


#8

Diethyl Ether
Concen: 0.628 ug/l m
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

Tgt Ion	Ratio	Lower	Upper
74	100		
45	3.6	43.1	129.4#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 0.539 ug/l

RT: 3.75 min Scan# 616

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

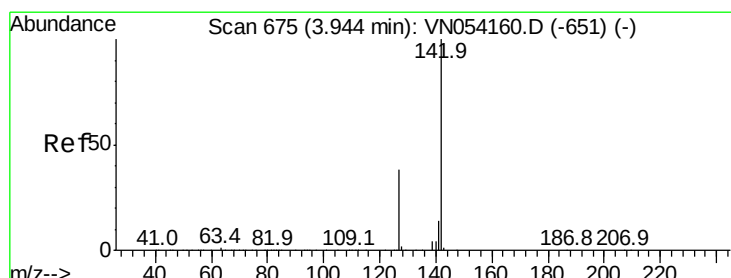
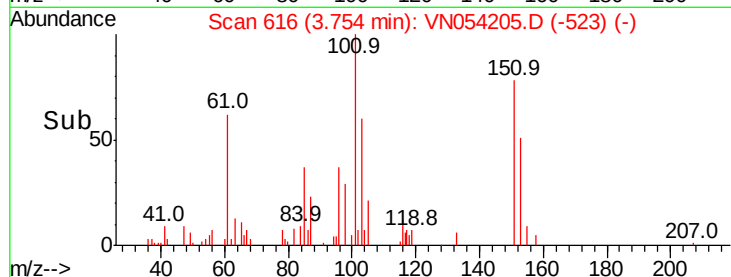
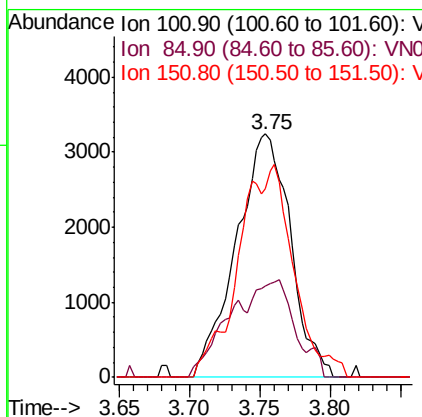
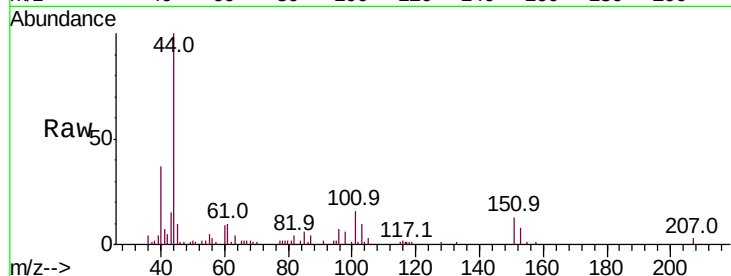
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	101	Resp:	8696
Ion Ratio	Lower	Upper	
101	100		
85	20.5	32.4	48.6#
151	41.7	68.2	102.2#

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#10

Methyl Iodide

Concen: 2.706 ug/l

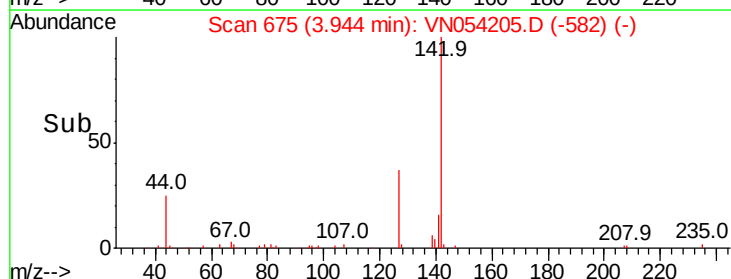
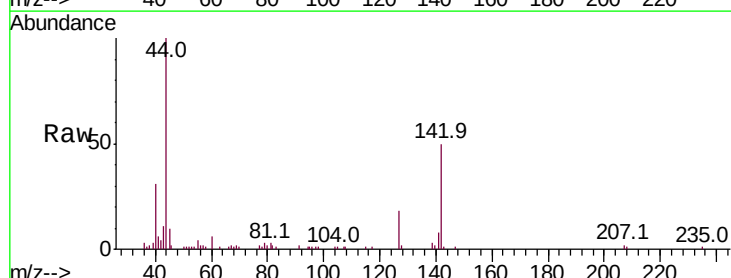
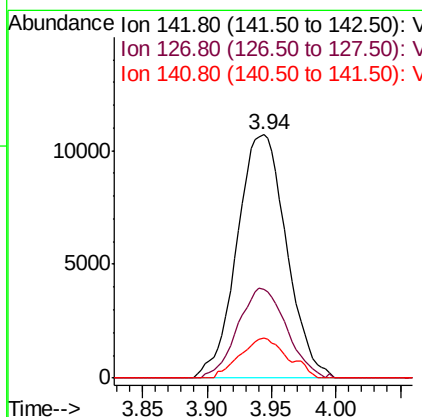
RT: 3.94 min Scan# 675

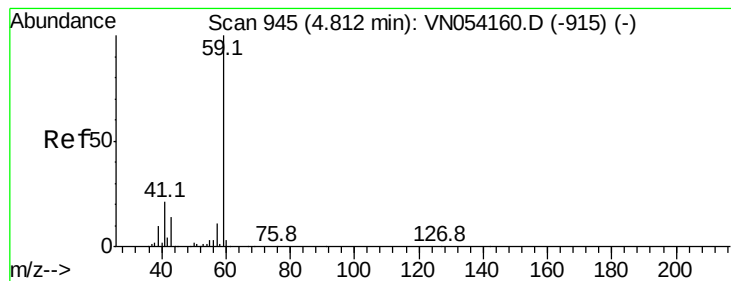
Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Tgt Ion:	142	Resp:	28578
Ion Ratio	Lower	Upper	
142	100		
127	36.4	30.3	45.5
141	15.8	11.2	16.8





#11

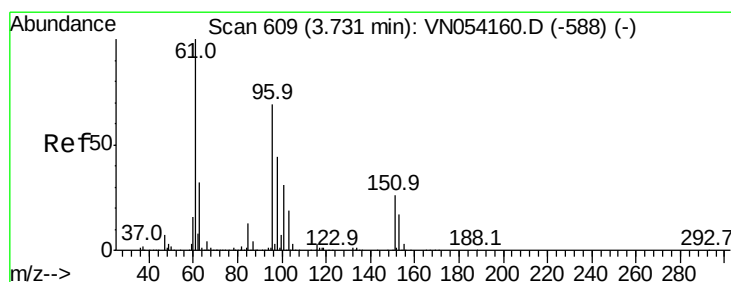
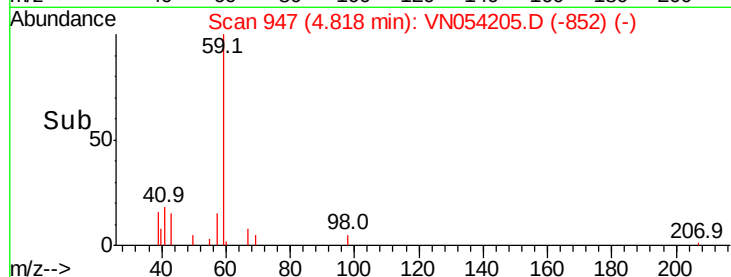
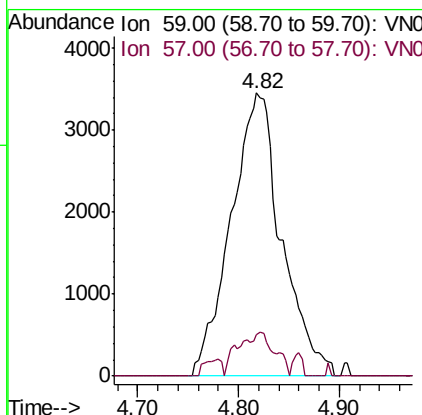
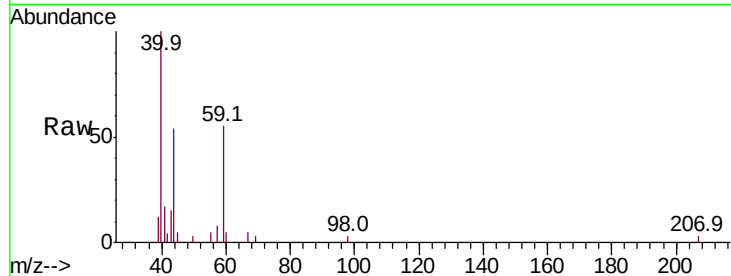
Tert butyl alcohol
 Concen: 10.709 ug/l
 RT: 4.82 min Scan# 947
 Delta R.T. 0.01 min
 Lab File: VN054205.D
 Acq: 13 Mar 2019 11:43

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

Tot Ion: 59 Resp: 12004
 Ion Ratio Lower Upper
 59 100
 57 11.2 9.0 13.6

Manual Integrations
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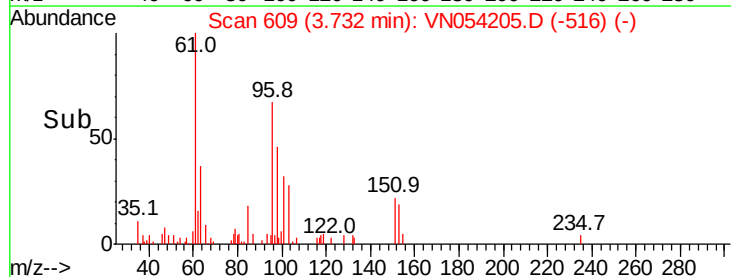
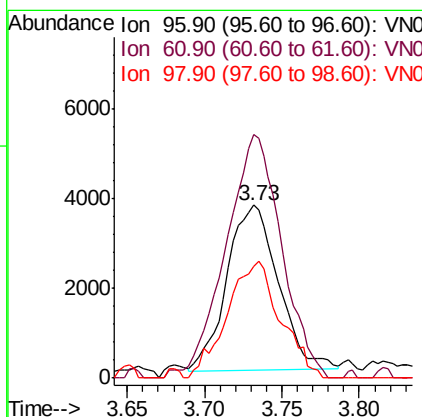
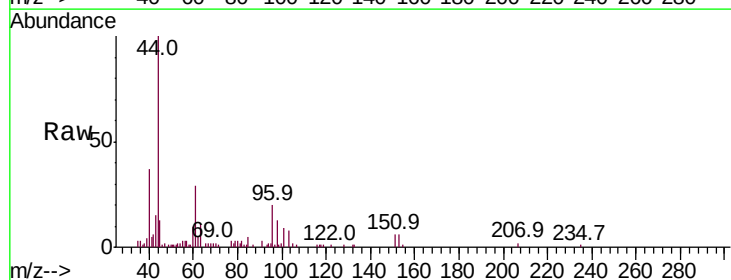
MMDadoda
 3/14/2019 10:27:04 AM

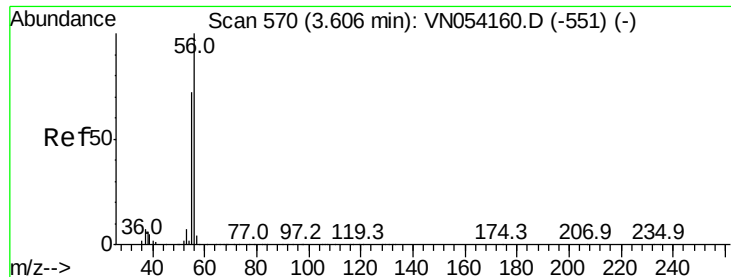


#12

1,1-Dichloroethene
 Concen: 0.530 ug/l
 RT: 3.73 min Scan# 609
 Delta R.T. 0.00 min
 Lab File: VN054205.D
 Acq: 13 Mar 2019 11:43

Tgt Ion: 96 Resp: 8471
 Ion Ratio Lower Upper
 96 100
 61 149.0 116.5 174.7
 98 68.5 51.0 76.4





#13

Acrolein

Concen: 11.901 ug/l

RT: 3.61 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 56 Resp: 12641

Ion Ratio Lower Upper

56 100

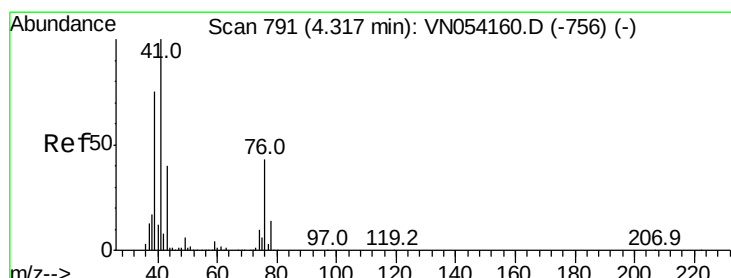
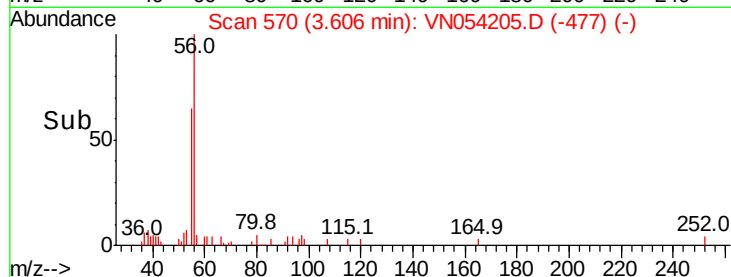
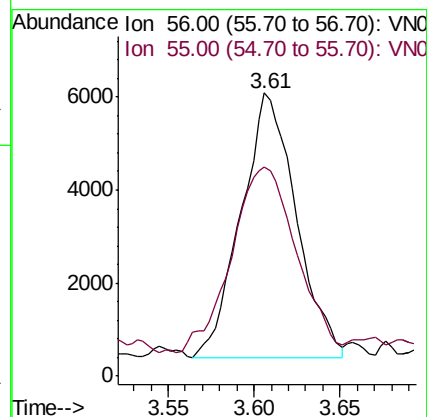
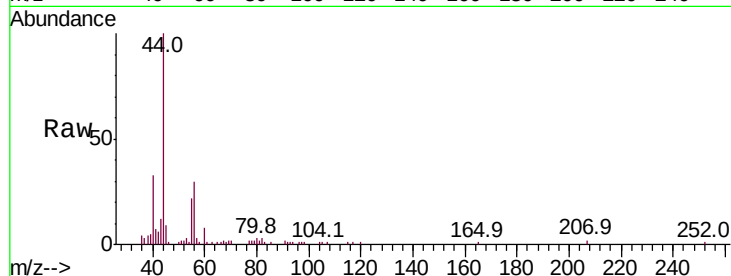
55 82.9 56.7 85.1

Manual Integrations

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#14

Allyl chloride

Concen: 0.426 ug/l

RT: 4.31 min Scan# 790

Delta R.T. -0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

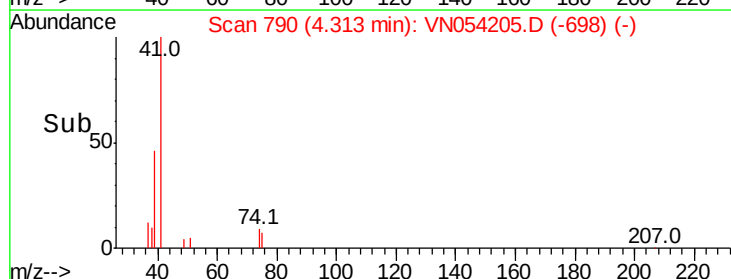
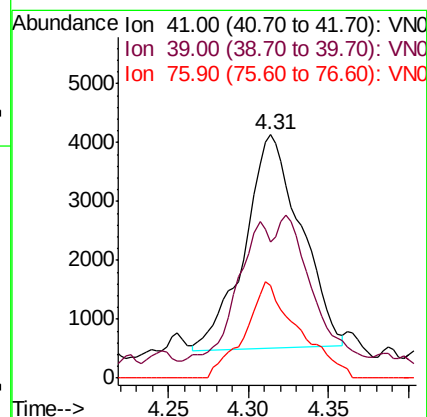
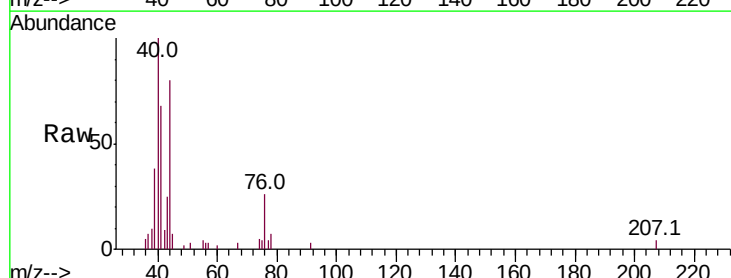
Tgt Ion: 41 Resp: 8744

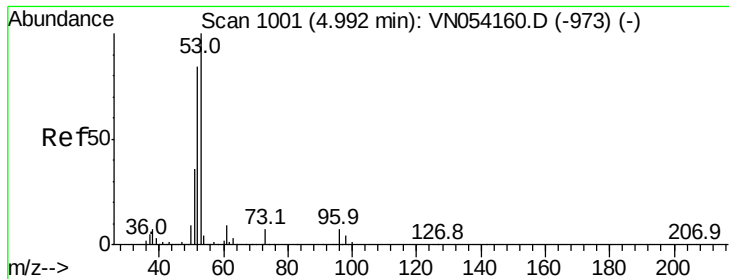
Ion Ratio Lower Upper

41 100

39 37.4 58.2 87.4#

76 43.0 31.7 47.5





#15

Acrylonitrile

Concen: 2.501 ug/l m

RT: 5.00 min Scan# 1005

Delta R.T. 0.01 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

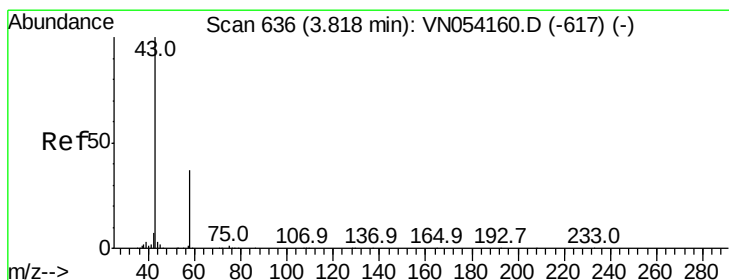
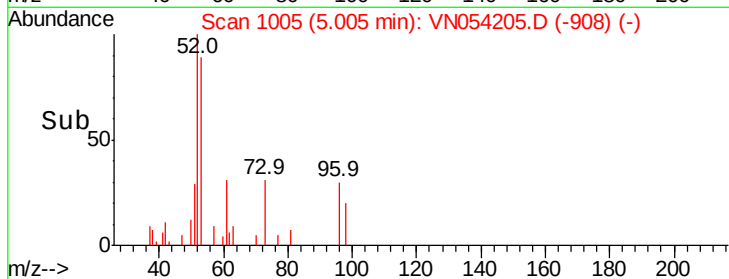
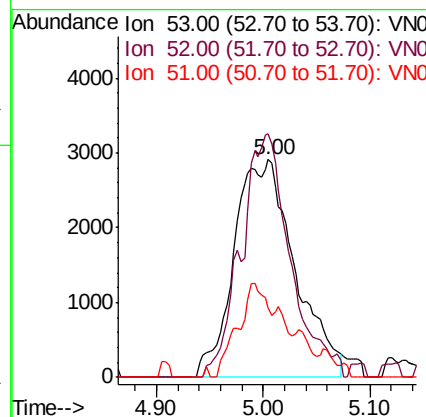
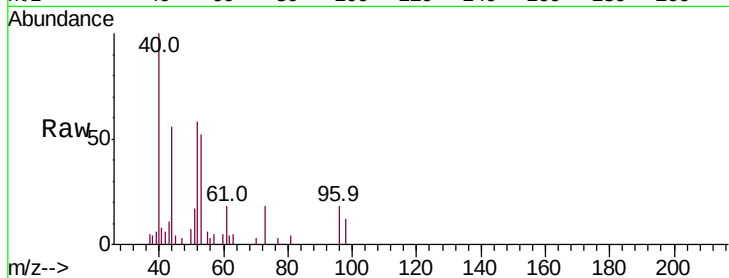
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	53	Resp:	11514
Ion	Ratio	Lower	Upper
53	100		
52	90.6	66.4	99.6
51	21.5	29.6	44.4#

Manual Integrations
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#16

Acetone

Concen: 3.408 ug/l

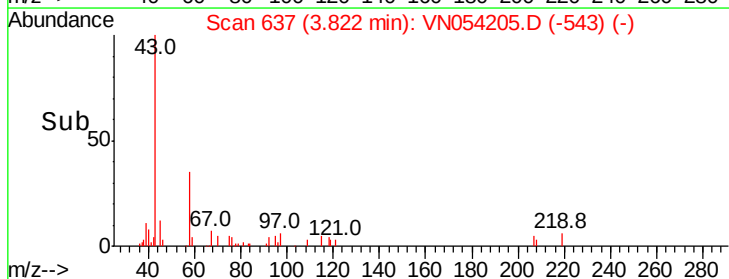
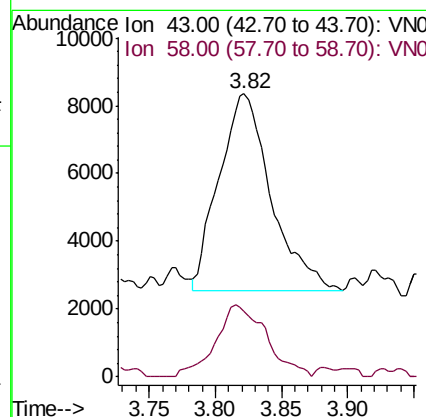
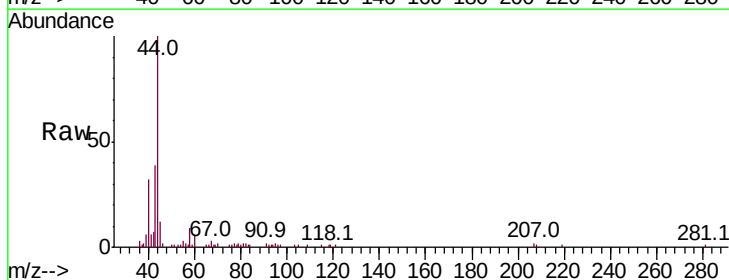
RT: 3.82 min Scan# 637

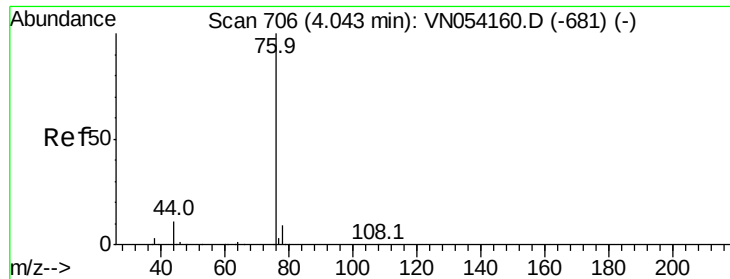
Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Tgt Ion:	43	Resp:	15955
Ion	Ratio	Lower	Upper
43	100		
58	28.8	29.9	44.9#





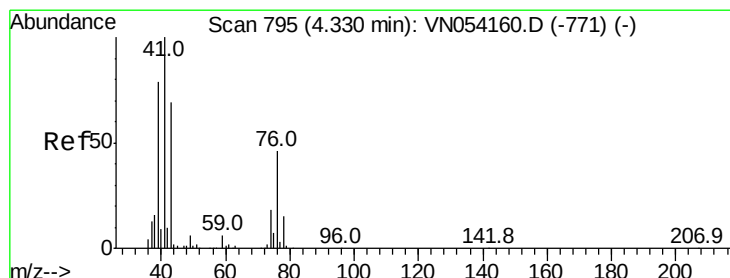
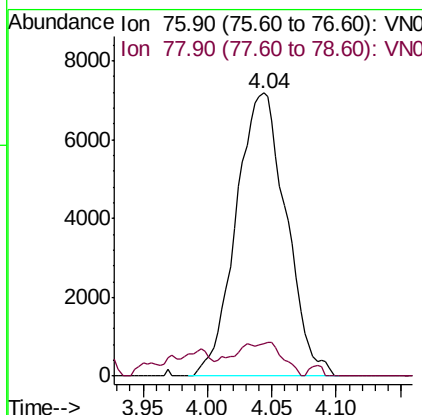
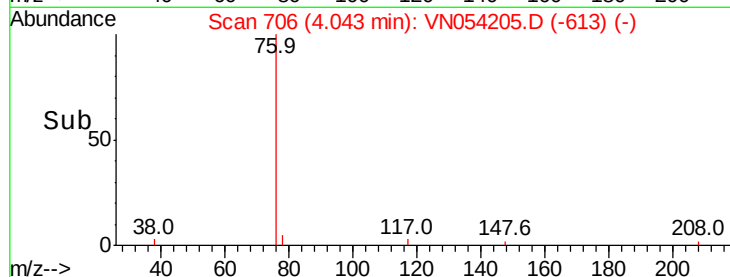
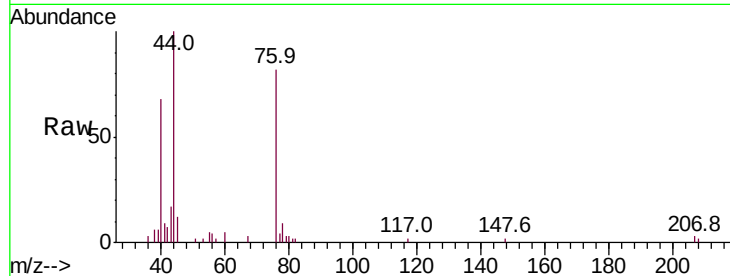
#17
Carbon Disulfide
Concen: 0.486 ug/l
RT: 4.04 min Scan# 706
Delta R.T. 0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

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

Tot Ion: 76 Resp: 19479
Ion Ratio Lower Upper
76 100
78 11.6 7.5 11.3#

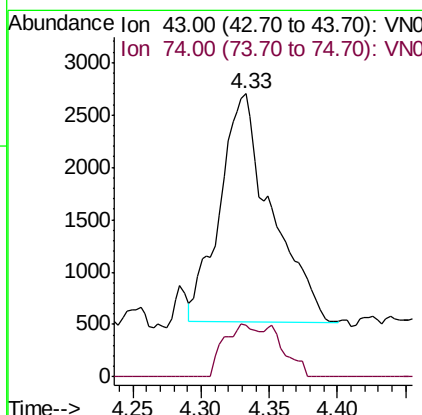
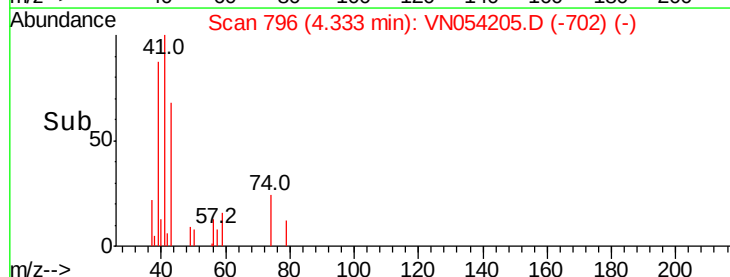
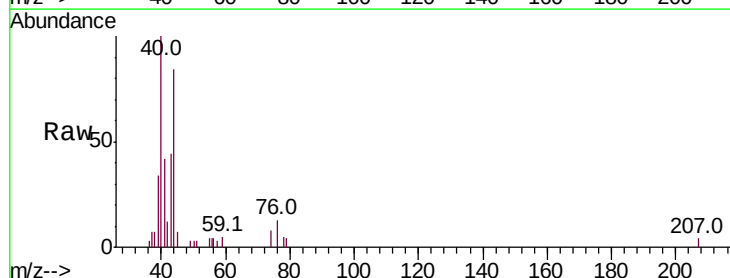
Manual Integrations
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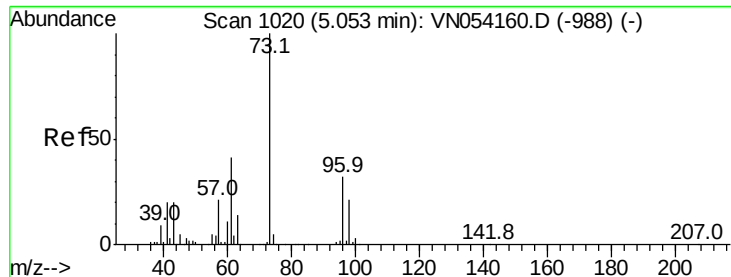
MMDadoda
3/14/2019 10:27:04 AM



#18
Methyl Acetate
Concen: 0.606 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

Tgt Ion: 43 Resp: 5744
Ion Ratio Lower Upper
43 100
74 14.9 20.8 31.2#





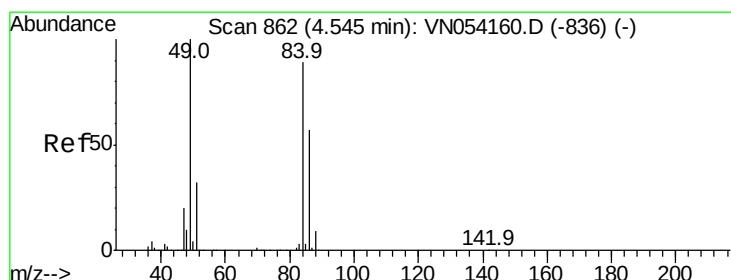
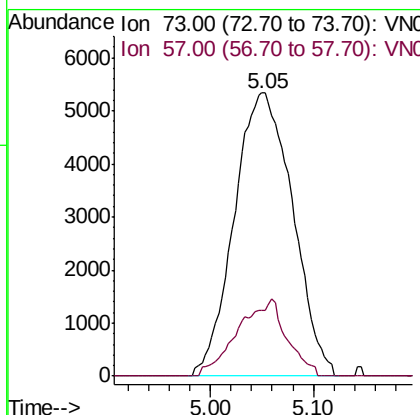
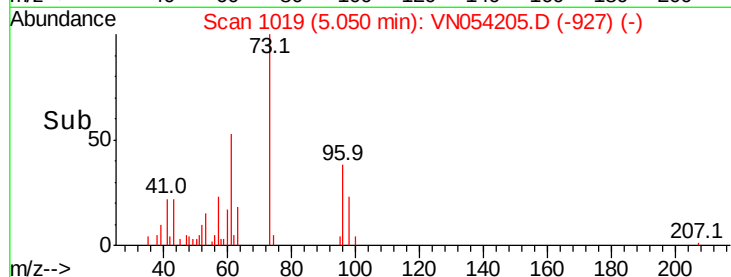
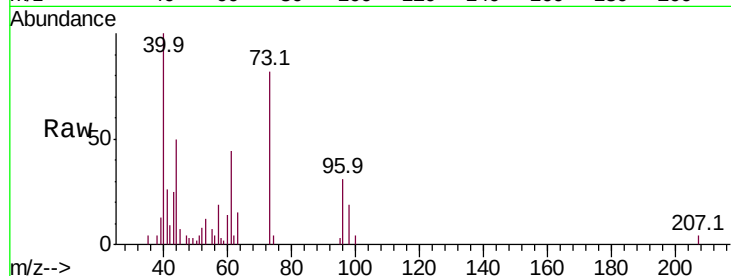
#19
Methyl tert-butyl Ether
Concen: 0.530 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

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

Tot Ion: 73 Resp: 21019
Ion Ratio Lower Upper
73 100
57 23.0 16.8 25.2

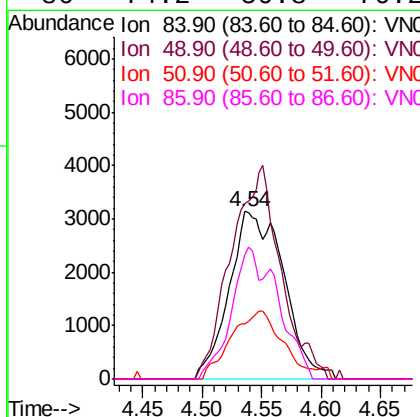
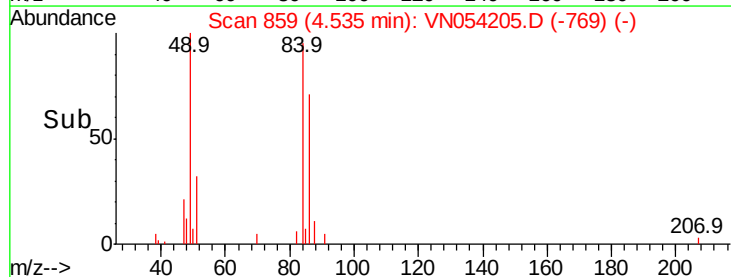
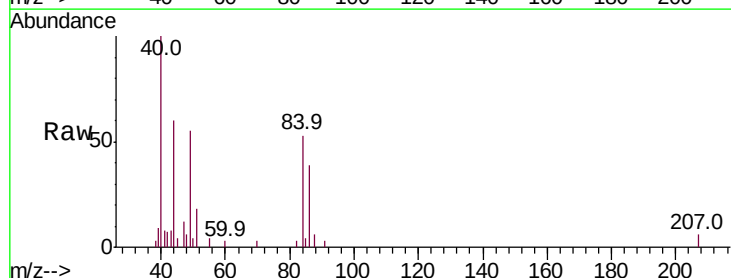
Manual Integrations
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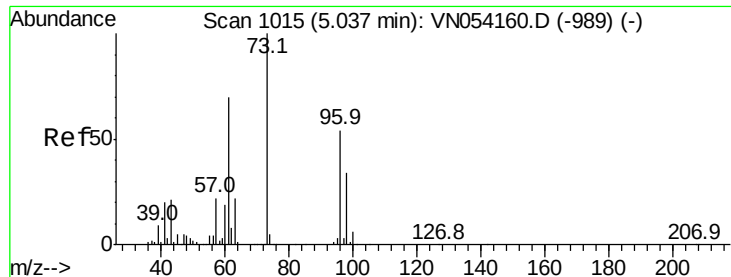
MMDadoda
3/14/2019 10:27:04 AM



#20
Methylene Chloride
Concen: 0.663 ug/l m
RT: 4.54 min Scan# 859
Delta R.T. -0.01 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

Tgt Ion: 84 Resp: 10186
Ion Ratio Lower Upper
84 100
49 105.0 89.7 134.5
51 33.2 28.2 42.4
86 74.2 50.8 76.2





#21

trans-1,2-Dichloroethene

Concen: 0.511 ug/l

RT: 5.04 min Scan# 1015

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 96 Resp: 7835

Ion Ratio Lower Upper

96 100

61 131.0 102.8 154.2

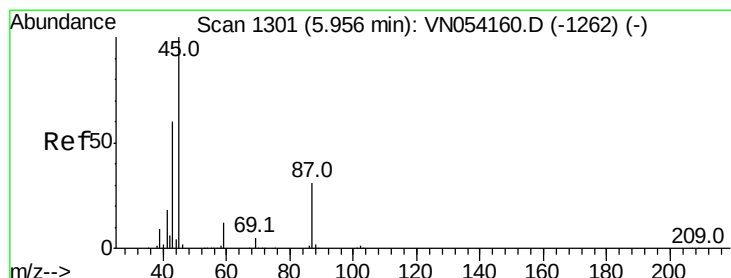
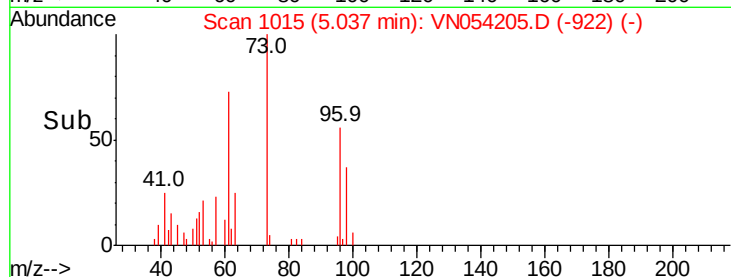
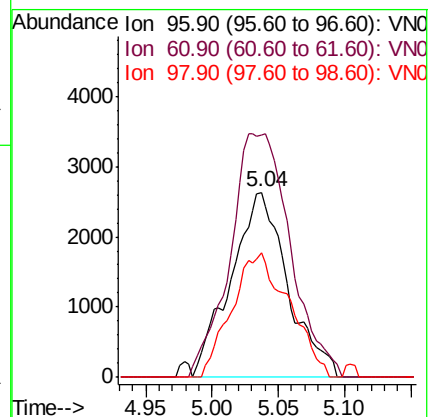
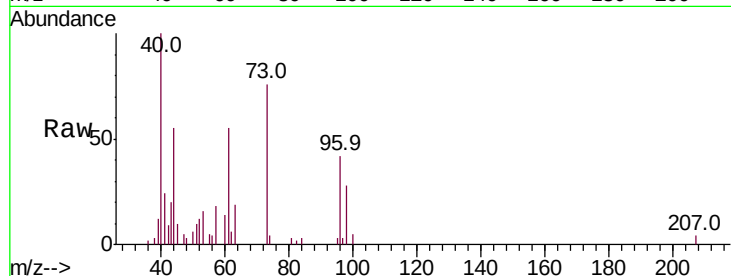
98 67.1 50.0 75.0

Manual Integrations

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MMDadoda

3/14/2019 10:27:04 AM



#22

Diisopropyl ether

Concen: 0.481 ug/l

RT: 5.96 min Scan# 1302

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Tgt Ion: 45 Resp: 19704

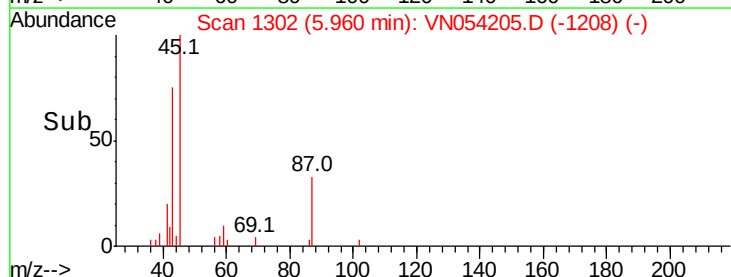
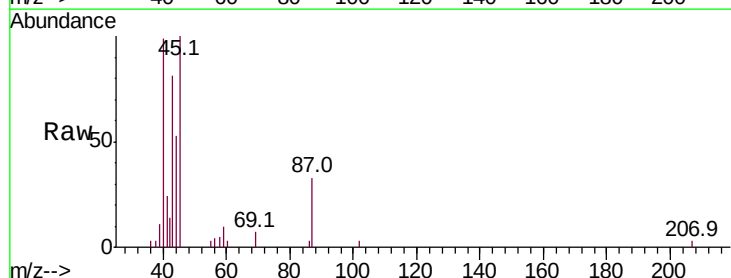
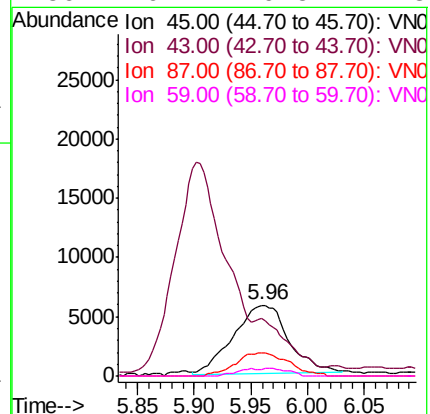
Ion Ratio Lower Upper

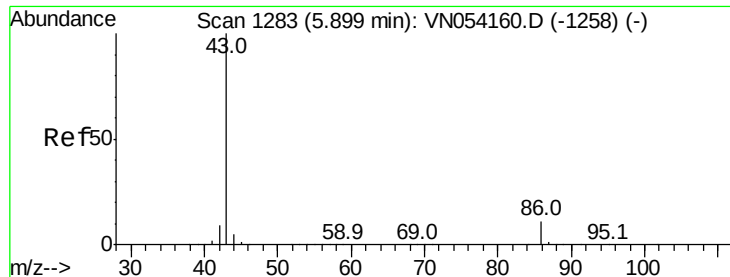
45 100

43 72.2 48.2 72.2

87 34.5 24.9 37.3

59 10.1 9.5 14.3





#23

Vinyl Acetate

Concen: 1.817 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 43 Resp: 54867

Ion Ratio Lower Upper

43 100

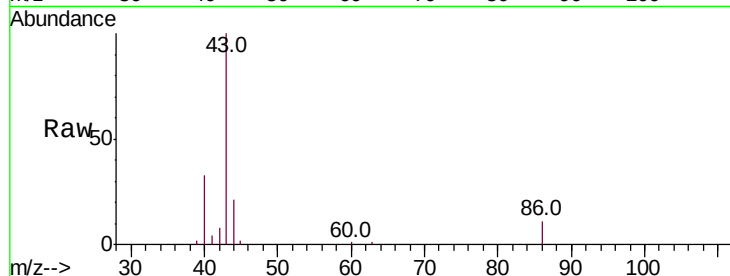
86 10.9 9.1 13.7

Manual Integrations

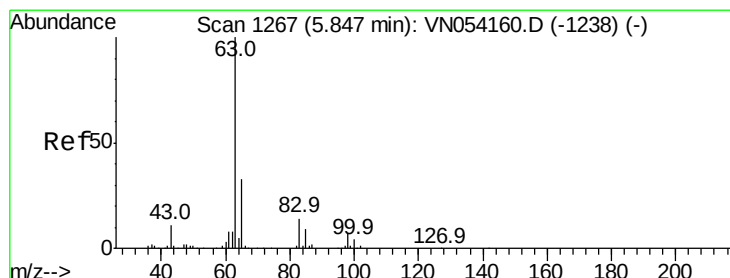
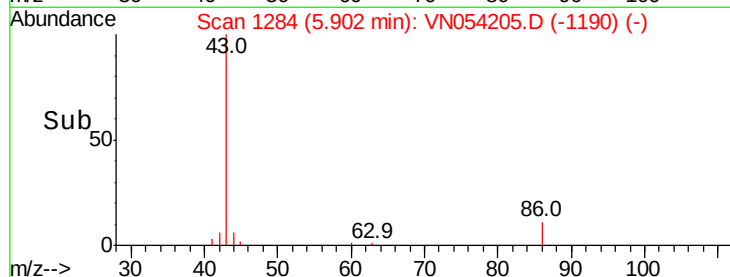
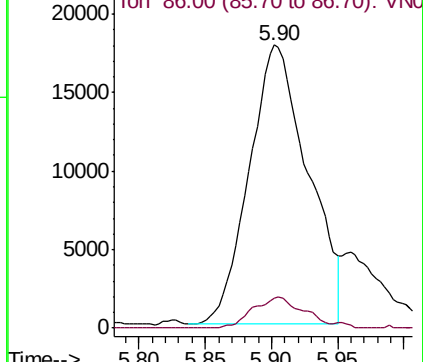
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Abundance Ion 43.00 (42.70 to 43.70): VN054205.D (-1190) (-)



#24

1,1-Dichloroethane

Concen: 0.528 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

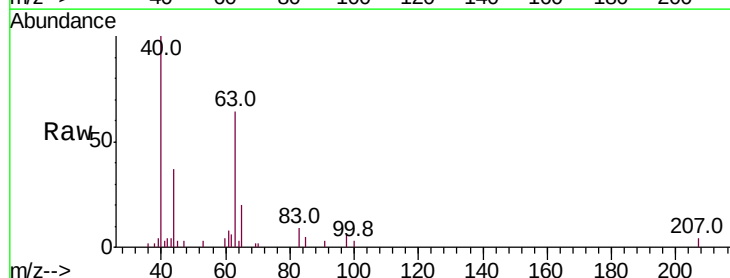
Tgt Ion: 63 Resp: 13884

Ion Ratio Lower Upper

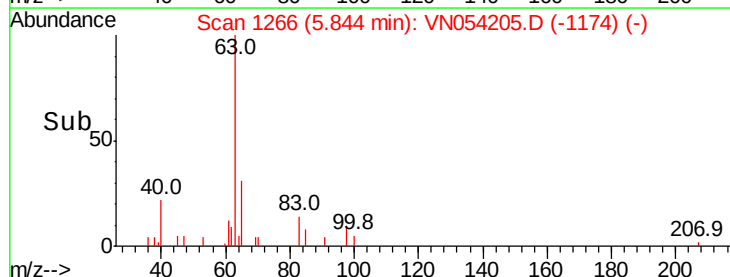
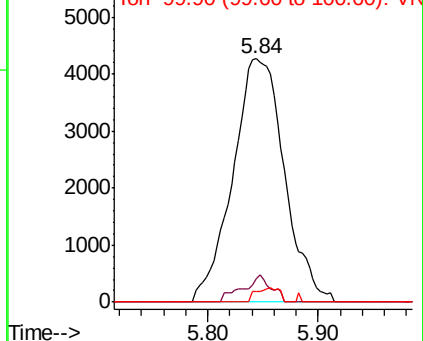
63 100

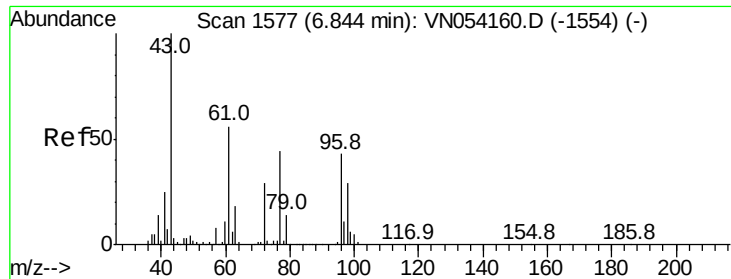
98 9.9 3.5 10.5

100 4.6 2.0 6.0



Abundance Ion 62.90 (62.60 to 63.60): VN054205.D (-1174) (-)





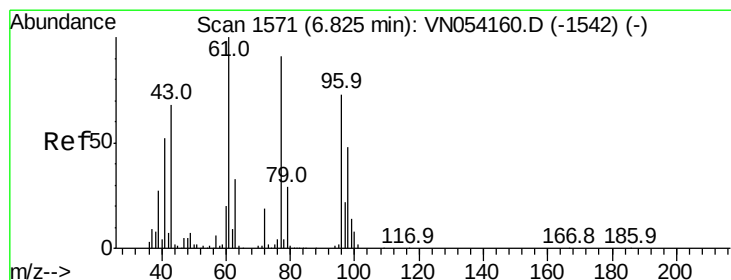
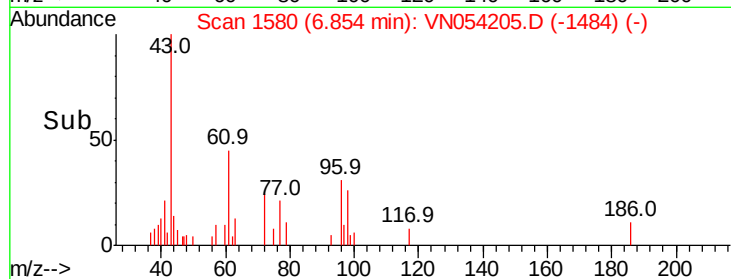
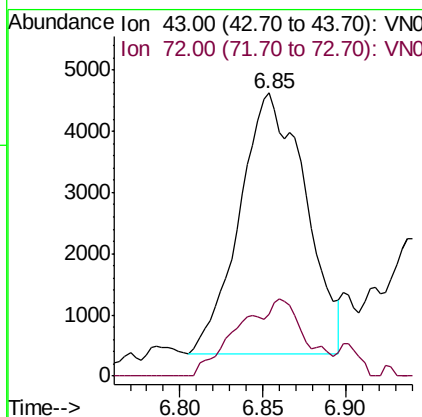
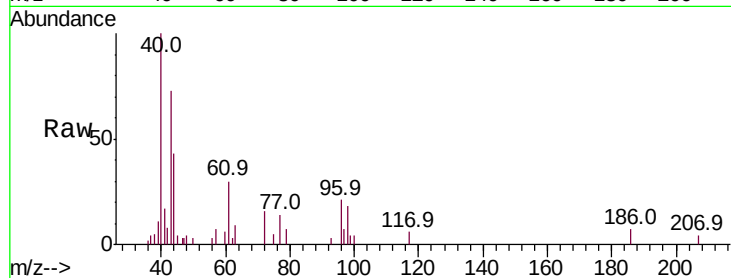
#25
2-Butanone
Concen: 2.149 ug/l
RT: 6.85 min Scan# 1580
Delta R.T. 0.01 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

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

Tot Ion: 43 Resp: 11807
Ion Ratio Lower Upper
43 100
72 24.0 23.0 34.6

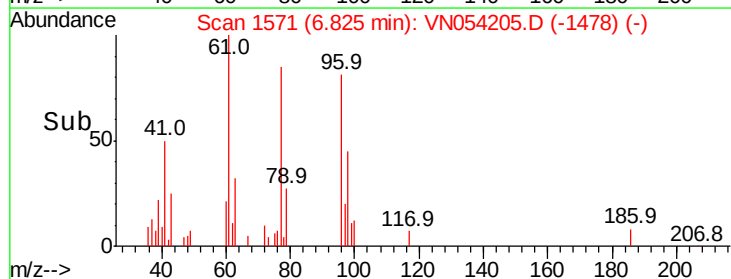
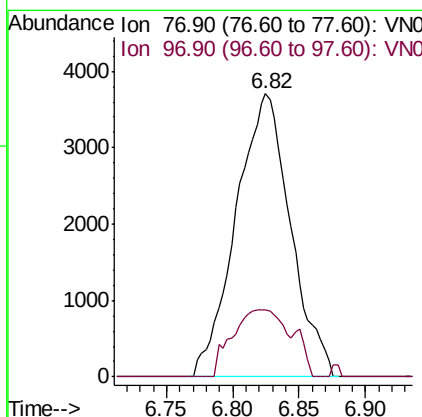
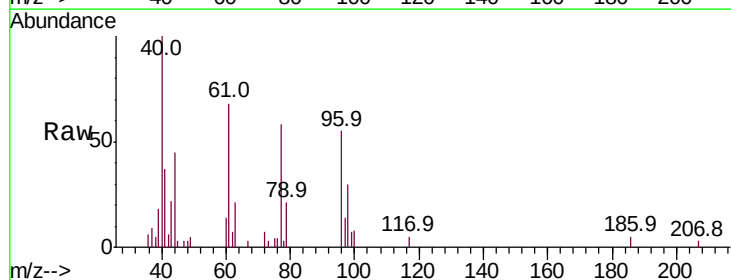
Manual Integrations
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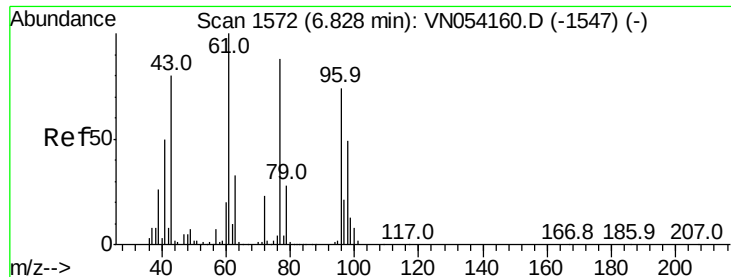
MMDadoda
3/14/2019 10:27:04 AM



#26
2,2-Dichloropropane
Concen: 0.458 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

Tgt Ion: 77 Resp: 10594
Ion Ratio Lower Upper
77 100
97 22.5 11.9 35.9





#27

cis-1,2-Dichloroethene

Concen: 0.548 ug/l

RT: 6.82 min Scan# 1571

Delta R.T. -0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

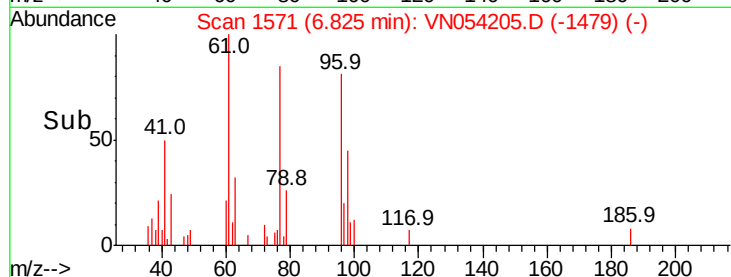
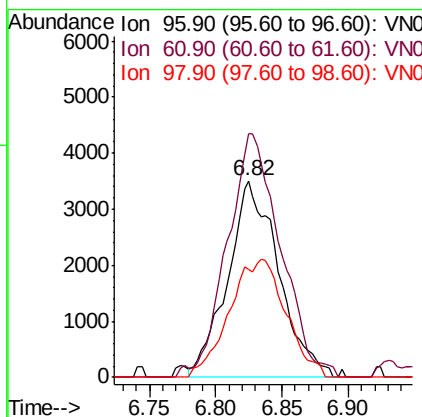
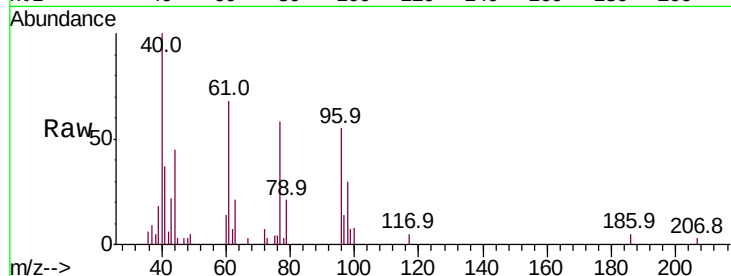
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	96	Resp:	9375
Ion	Ratio	Lower	Upper
96	100		
61	128.5	0.0	273.0
98	66.6	0.0	130.6

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#28

Bromochloromethane

Concen: 0.503 ug/l

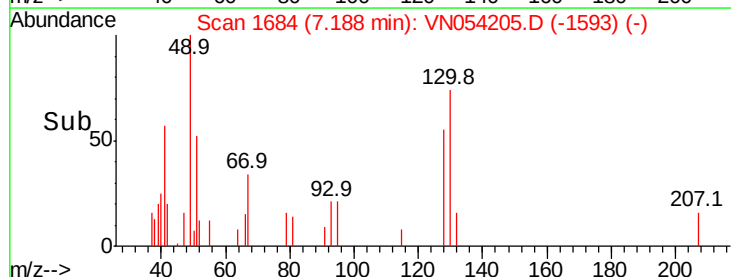
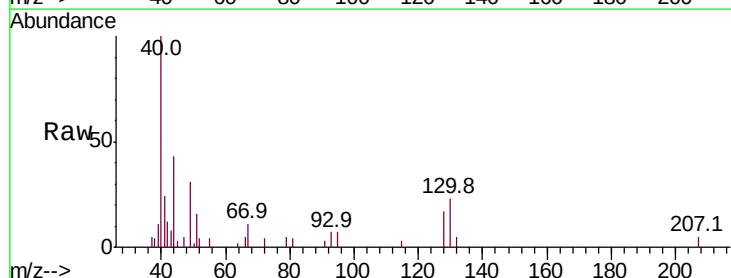
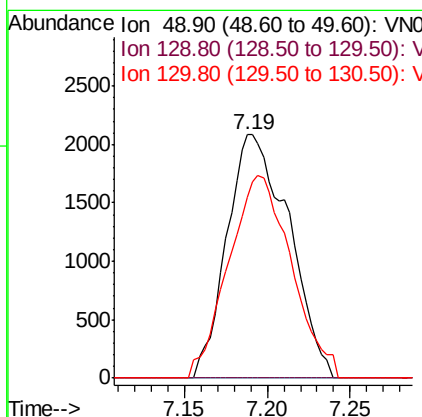
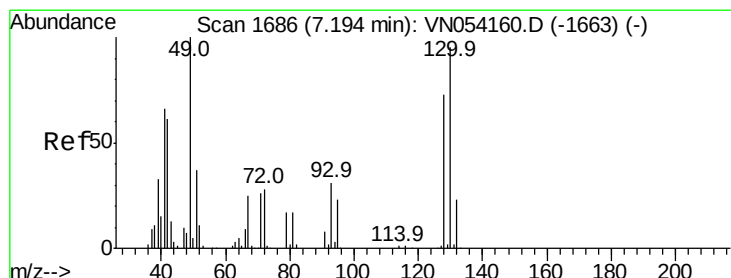
RT: 7.19 min Scan# 1684

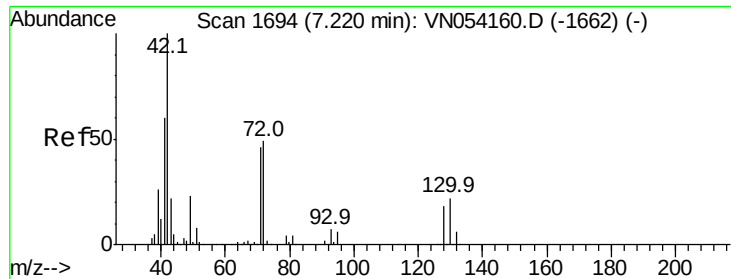
Delta R.T. -0.01 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Tgt Ion:	49	Resp:	5407
Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.6
130	84.3	76.7	115.1





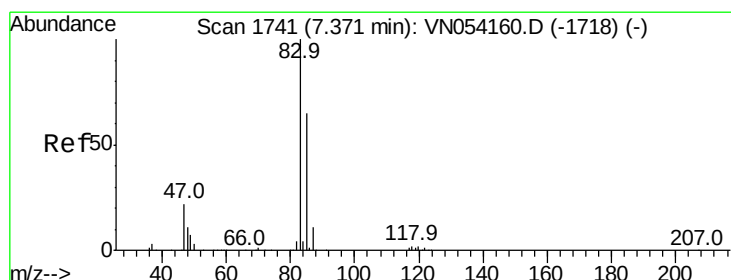
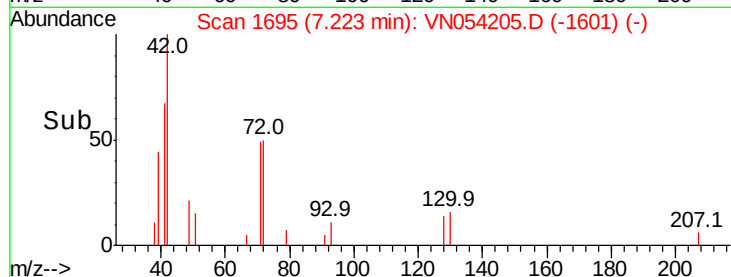
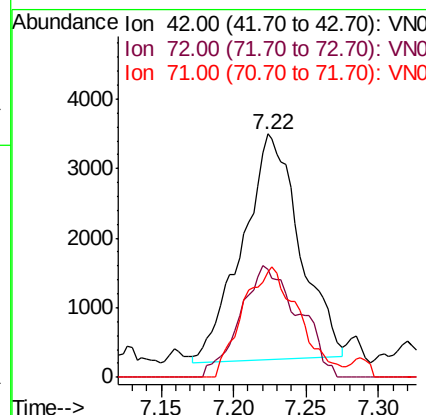
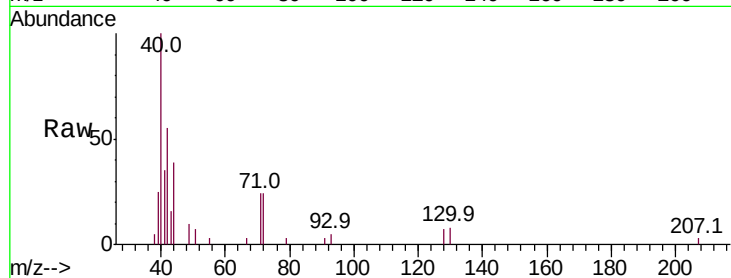
#29
Tetrahydrofuran
Concen: 2.523 ug/l
RT: 7.22 min Scan# 1695
Delta R.T. 0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

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

Tot Ion	Ratio	Lower	Upper
42	100		
72	50.3	37.8	56.6
71	48.6	36.2	54.2

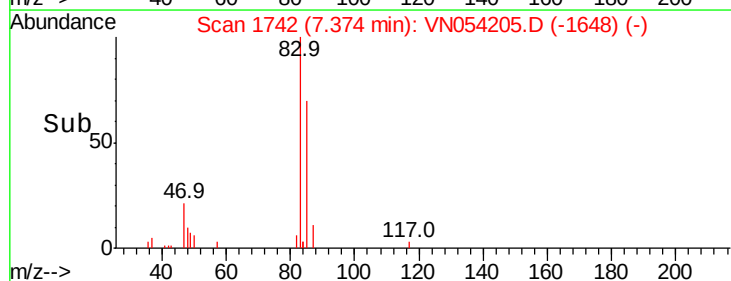
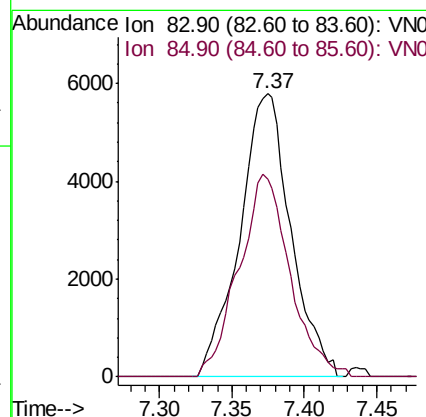
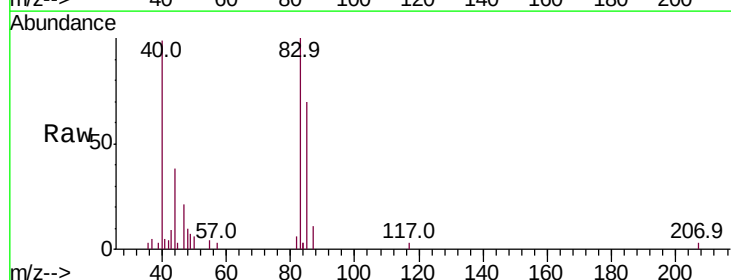
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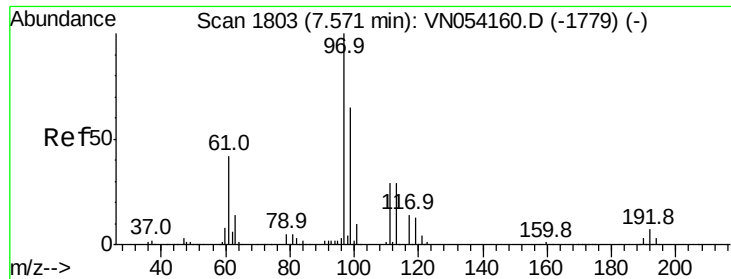
MMDadoda
3/14/2019 10:27:04 AM



#30
Chloroform
Concen: 0.517 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

Tgt Ion	Ratio	Lower	Upper
83	100		
85	70.0	52.2	78.4





#32

1,1,1-Trichloroethane

Concen: 0.503 ug/l

RT: 7.57 min Scan# 1804

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

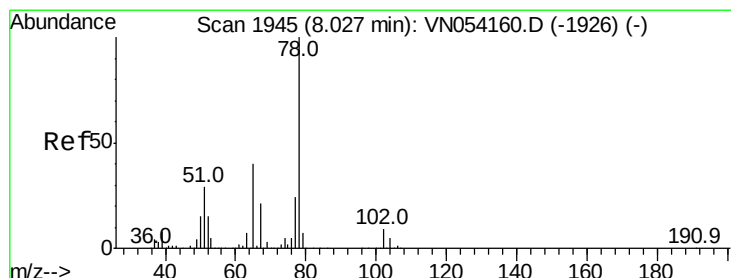
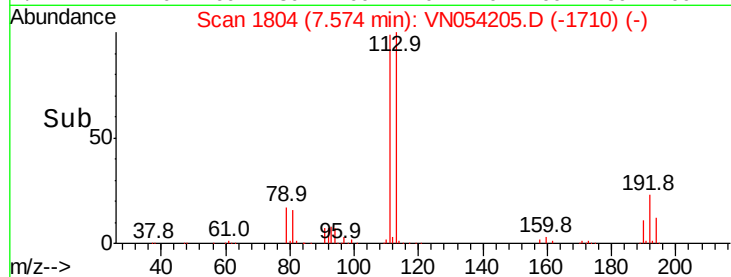
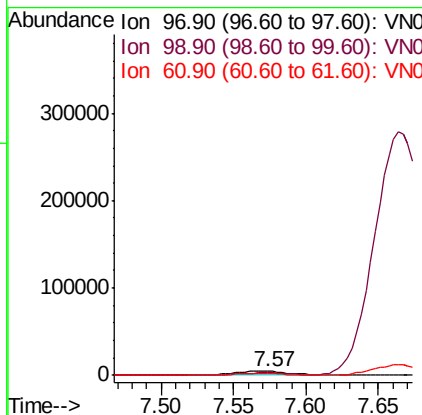
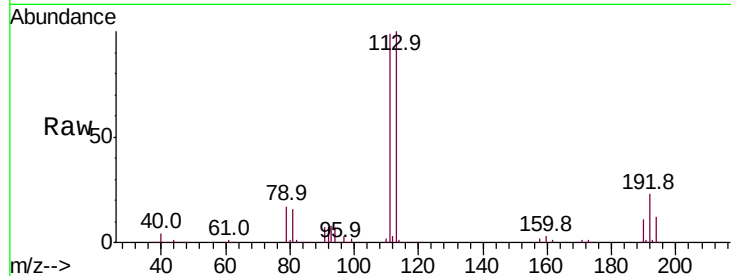
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
97	100		
99	0.0	51.5	77.3#
61	42.9	33.6	50.4

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#33

1,2-Dichloroethane-d4

Concen: 50.087 ug/l

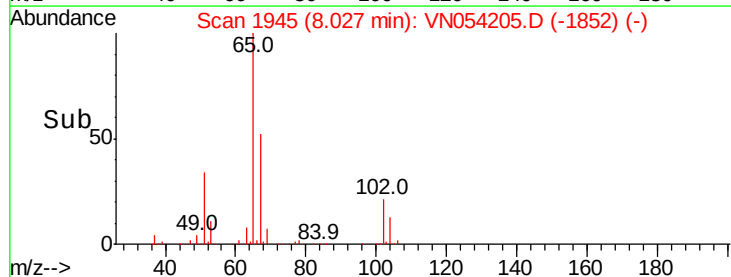
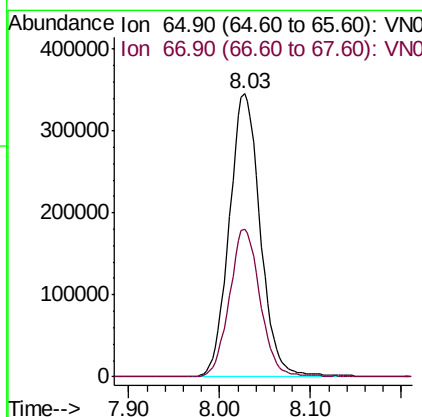
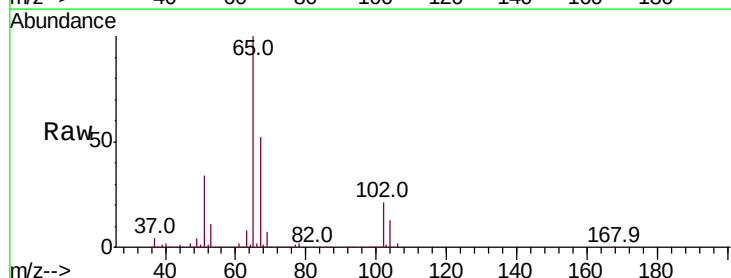
RT: 8.03 min Scan# 1945

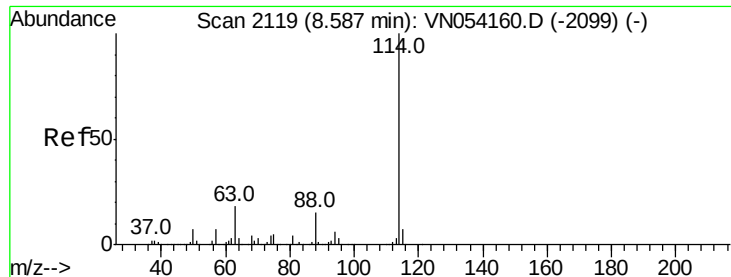
Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Tgt Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	104.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.58 min Scan# 2118

Delta R.T. -0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:114 Resp: 2235847

Ion Ratio Lower Upper

114 100

63 18.2 0.0 35.2

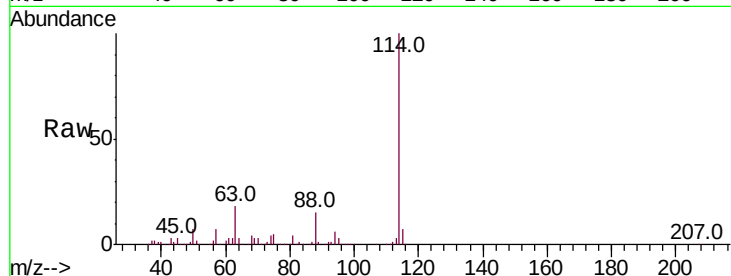
88 14.7 0.0 30.2

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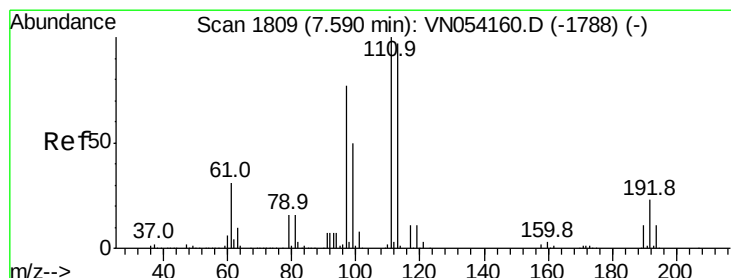
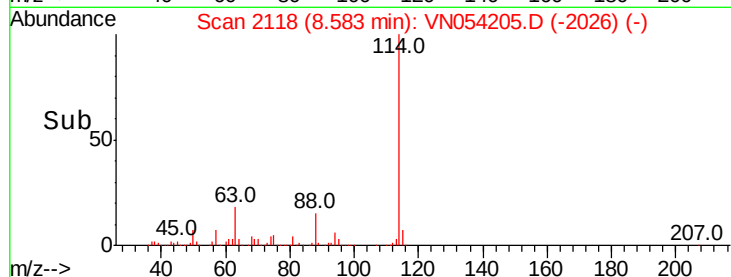
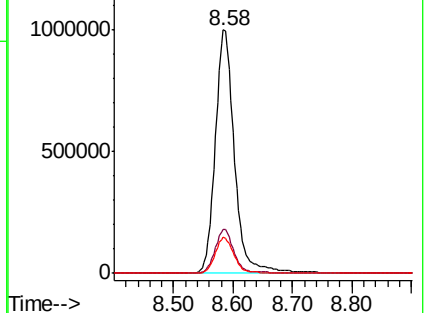
3/14/2019 10:27:04 AM



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0



#35

Dibromofluoromethane

Concen: 50.781 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

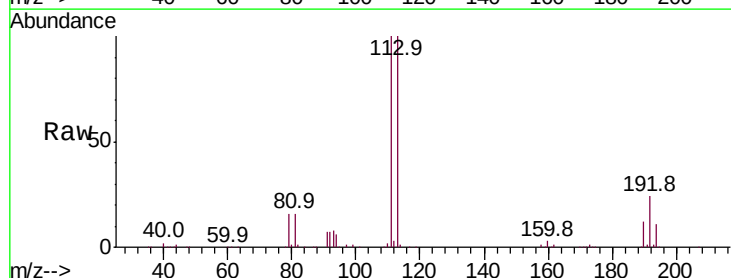
Tgt Ion:113 Resp: 732282

Ion Ratio Lower Upper

113 100

111 100.9 82.2 123.4

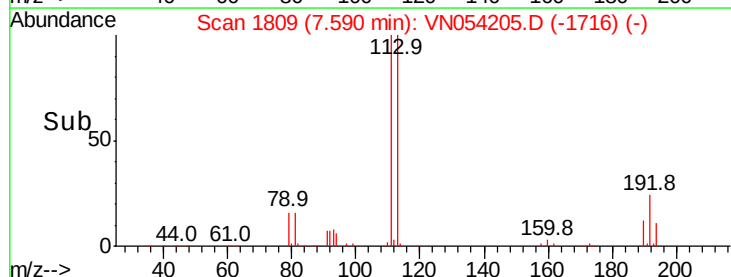
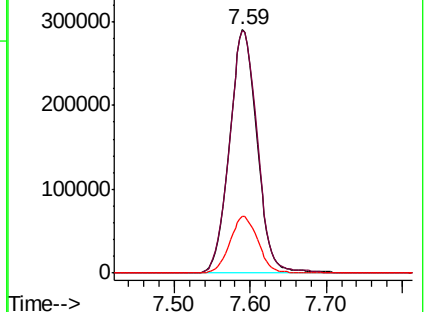
192 23.7 19.2 28.8

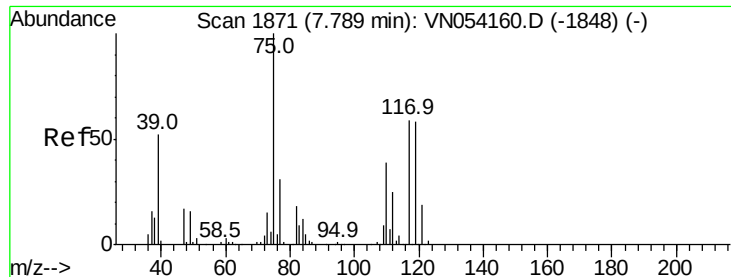


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 0.654 ug/l

RT: 7.79 min Scan# 1871

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

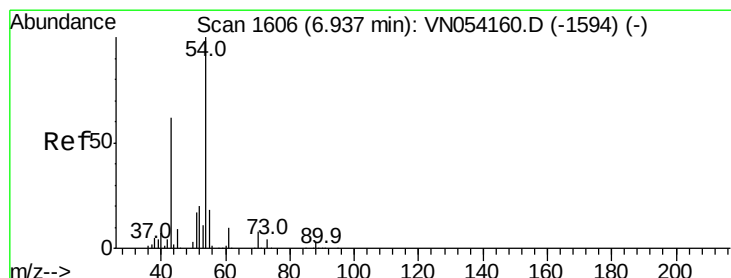
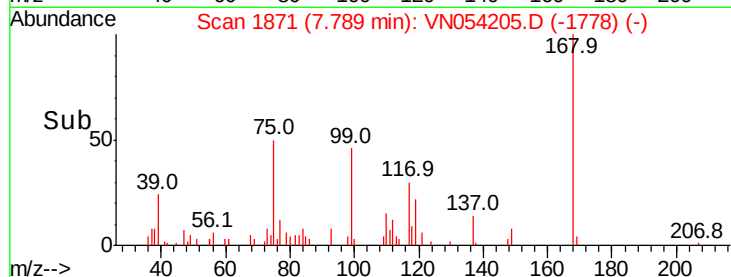
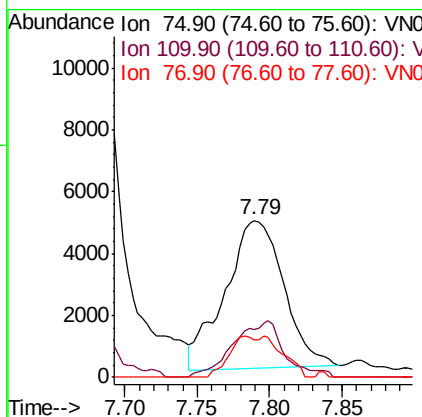
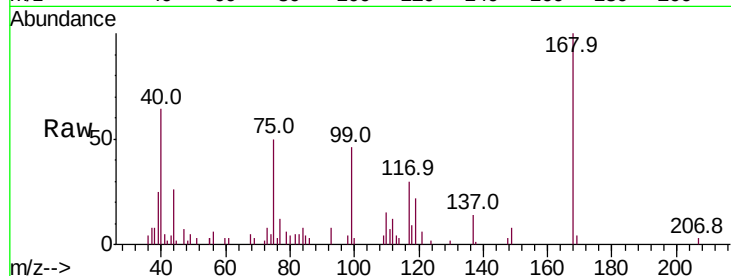
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	75	Resp:	13471
Ion Ratio	Lower	Upper	
75	100		
110	33.4	19.1	57.5
77	12.0	25.0	37.4#

Manual Integrations
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#37

Ethyl Acetate

Concen: 0.658 ug/l m

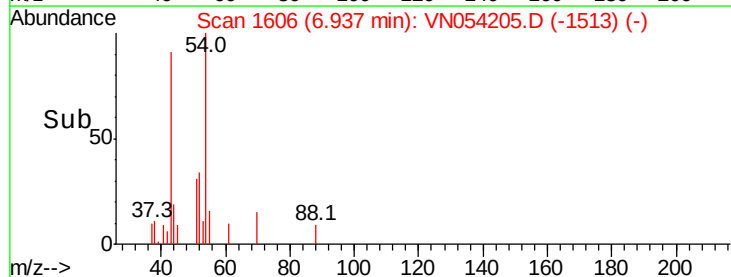
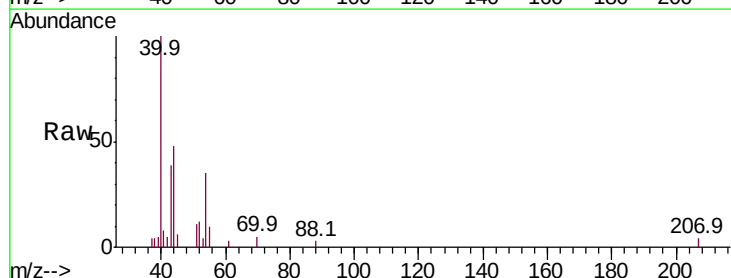
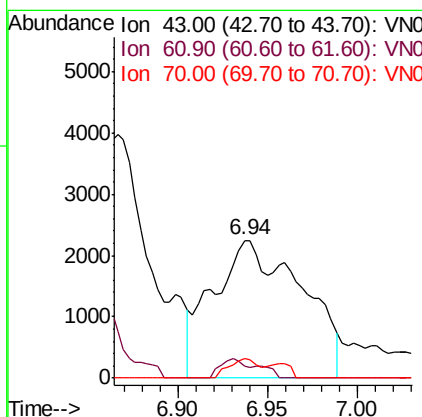
RT: 6.94 min Scan# 1606

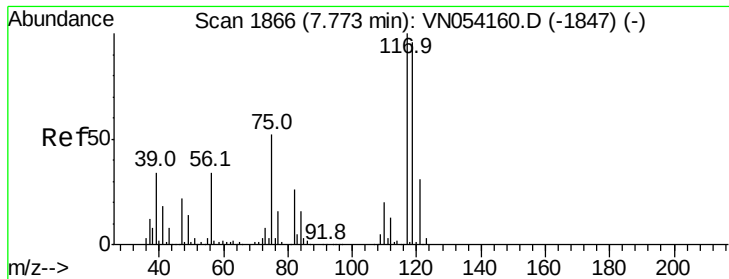
Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Tgt Ion:	43	Resp:	7785
Ion Ratio	Lower	Upper	
43	100		
61	0.0	11.8	17.6#
70	4.5	8.4	12.6#





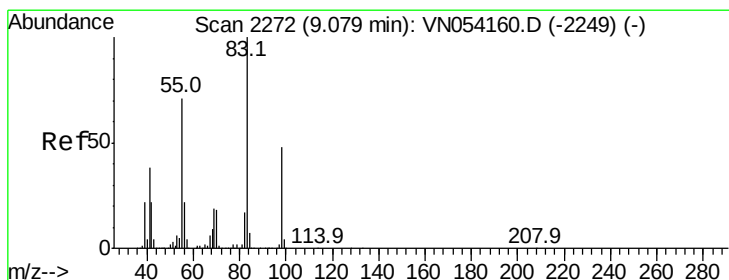
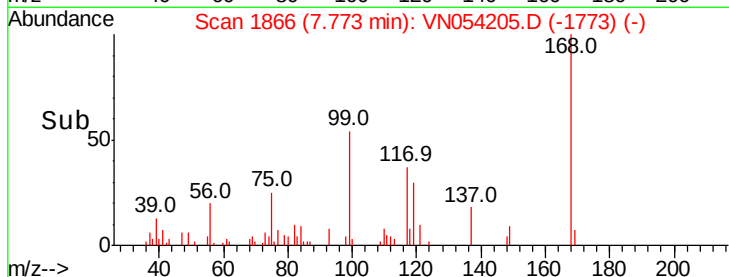
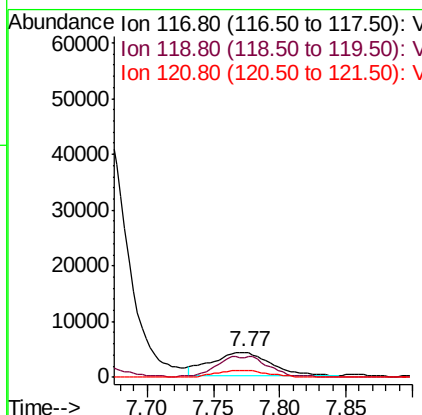
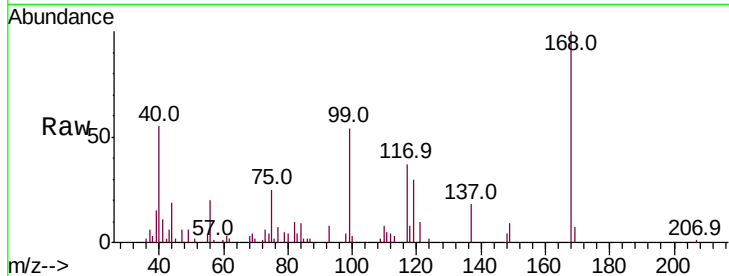
#38
Carbon Tetrachloride
Concen: 0.612 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

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

Tot Ion	Ratio	Lower	Upper
117	100		
119	86.5	76.3	114.5
121	28.5	24.6	36.8

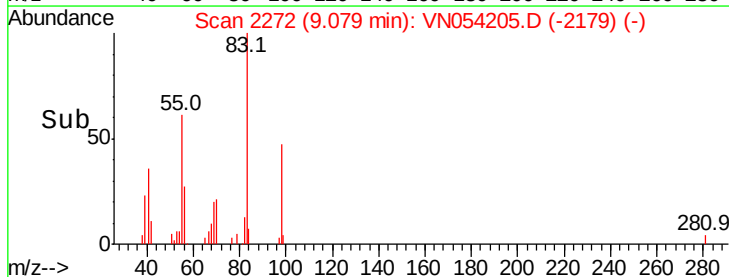
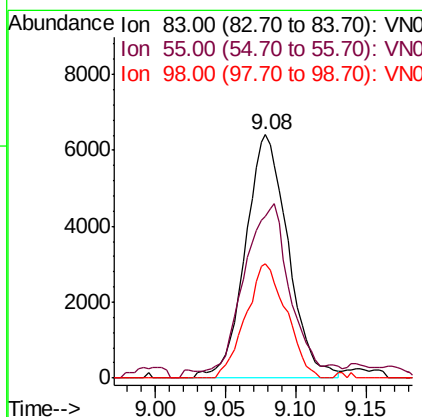
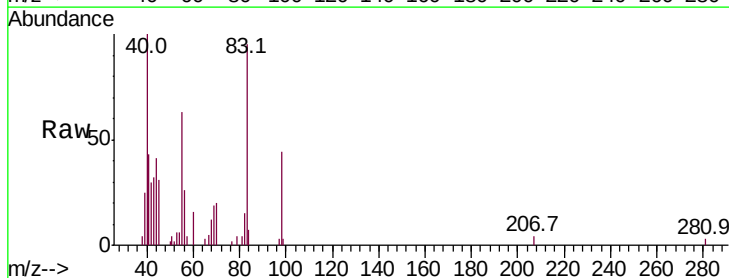
Manual Integrations
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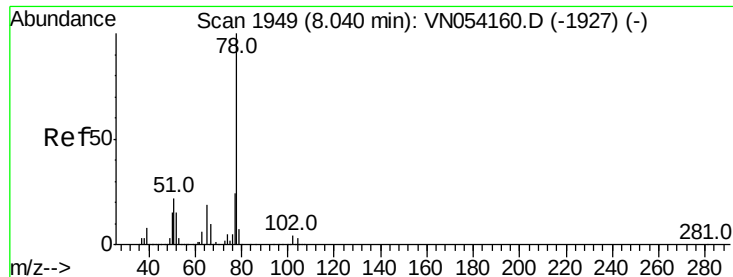
MMDadoda
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#39
Methylcyclohexane
Concen: 0.536 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. 0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

Tgt Ion	Ratio	Lower	Upper
83	100		
55	63.0	56.6	84.8
98	46.9	38.4	57.6





#40

Benzene

Concen: 0.532 ug/l

RT: 8.04 min Scan# 1948

Delta R.T. -0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 78 Resp: 31337

Ion Ratio Lower Upper

78 100

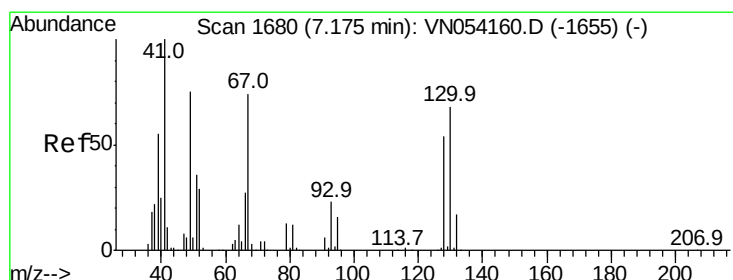
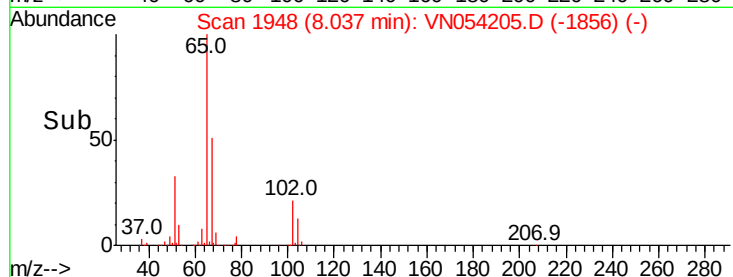
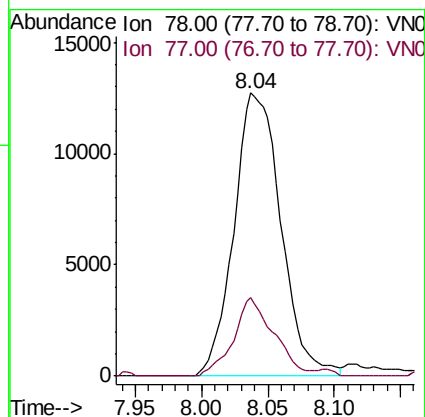
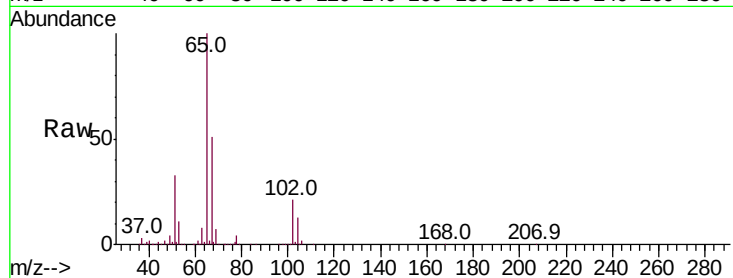
77 27.6 19.1 28.7

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#41

Methacrylonitrile

Concen: 0.308 ug/l

RT: 7.18 min Scan# 1680

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Tgt Ion: 41 Resp: 2079

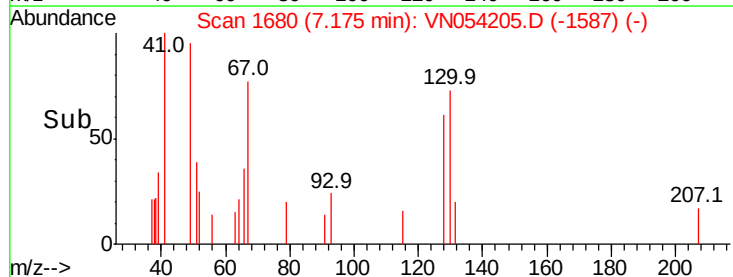
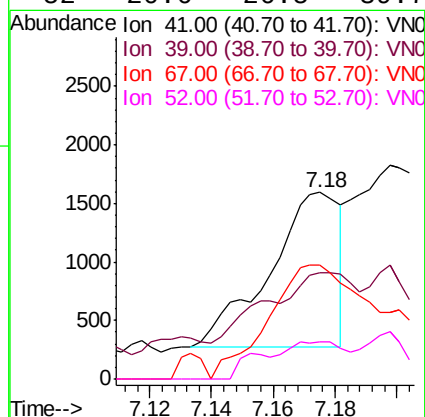
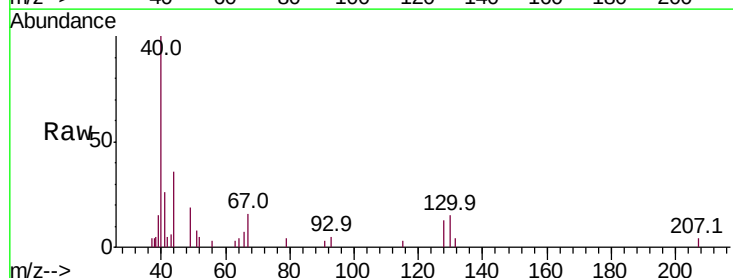
Ion Ratio Lower Upper

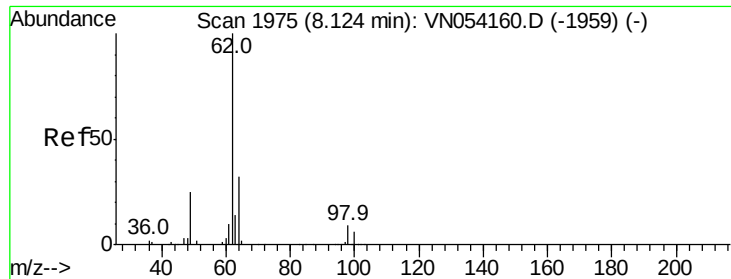
41 100

39 56.3 46.8 70.2

67 127.8 67.0 100.4#

52 20.6 26.5 39.7#





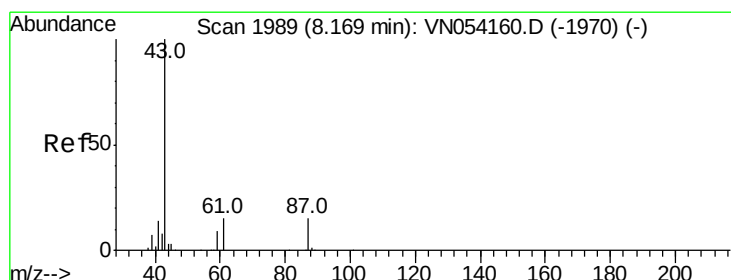
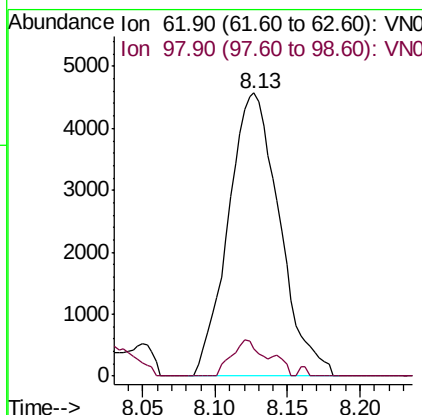
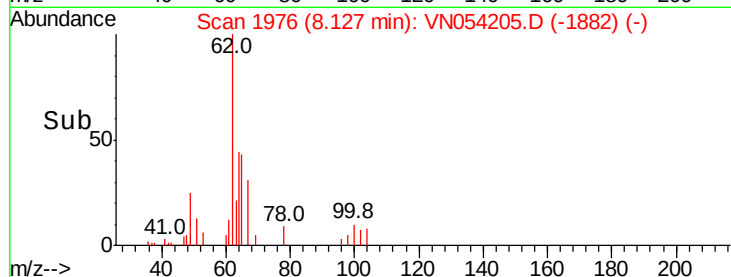
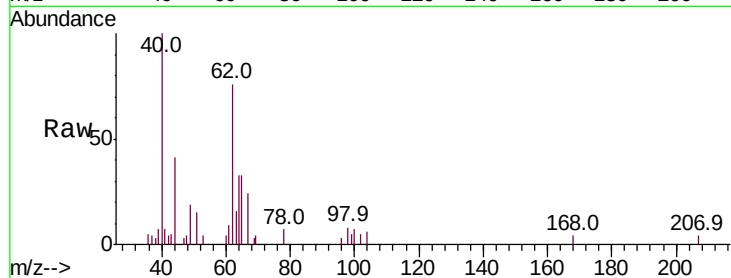
#42
1,2-Dichloroethane
Concen: 0.564 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

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

Tot Ion: 62 Resp: 11210
Ion Ratio Lower Upper
62 100
98 7.2 0.0 18.4

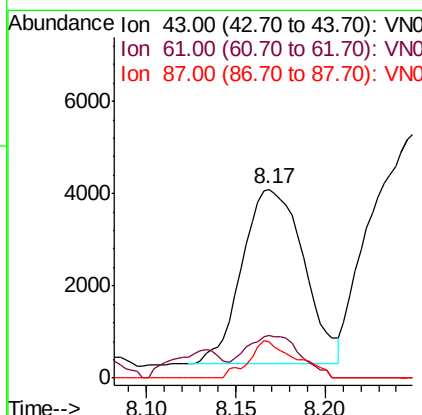
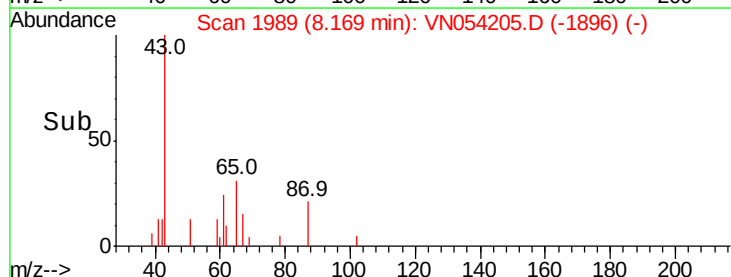
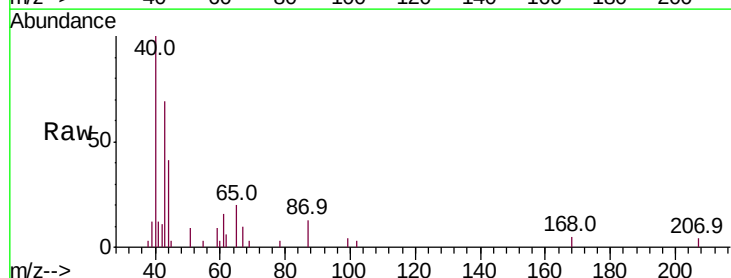
Manual Integrations
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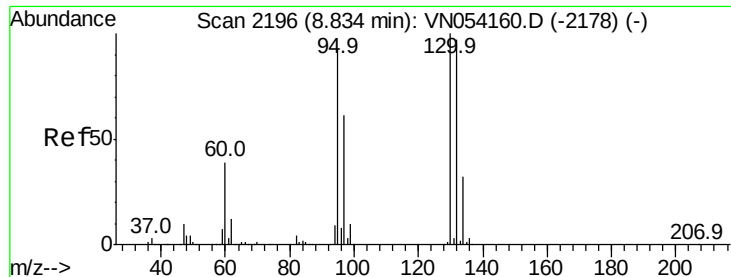
MMDadoda
3/14/2019 10:27:04 AM



#43
Isopropyl Acetate
Concen: 0.442 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

Tgt Ion: 43 Resp: 9178
Ion Ratio Lower Upper
43 100
61 21.8 15.8 23.8
87 16.3 12.0 18.0





#44

Trichloroethene

Concen: 0.576 ug/l

RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:130 Resp: 10543

Ion Ratio Lower Upper

130 100

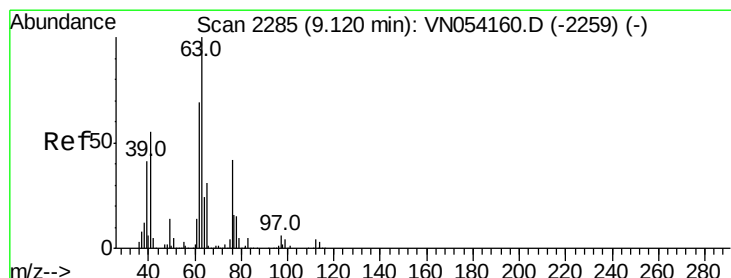
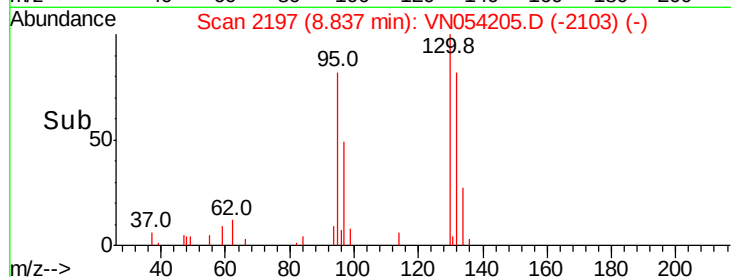
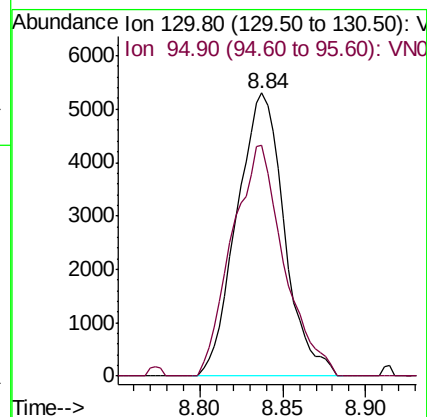
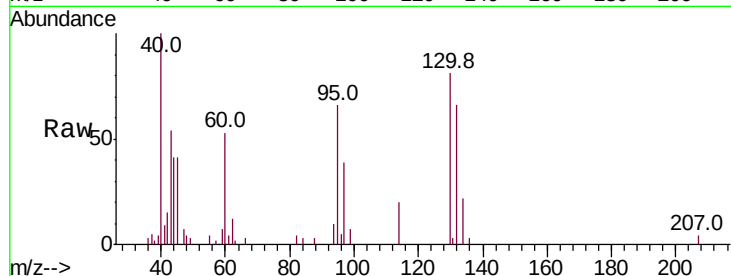
95 81.7 0.0 185.2

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#45

1,2-Dichloropropane

Concen: 0.534 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN054205.D

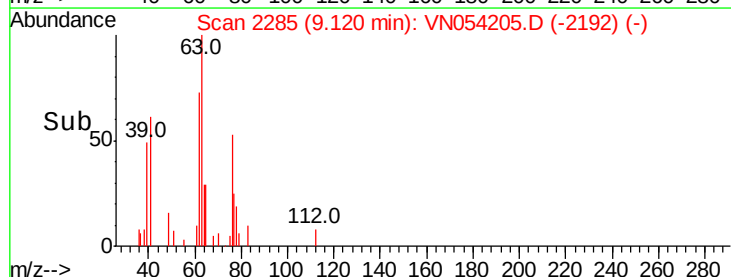
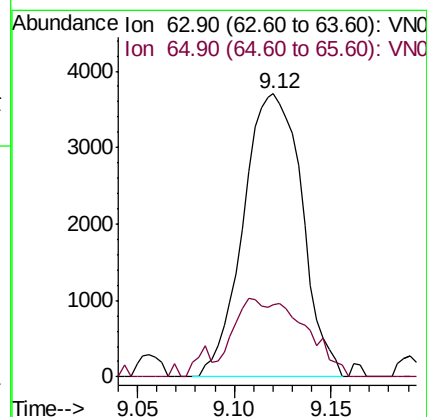
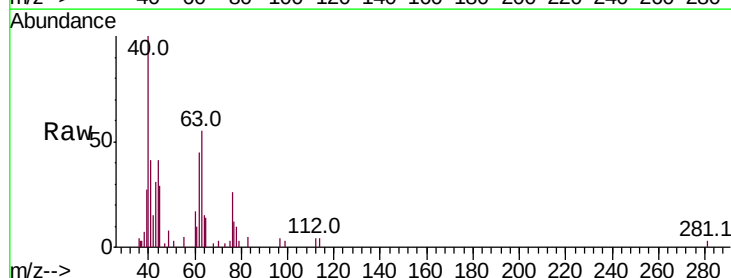
Acq: 13 Mar 2019 11:43

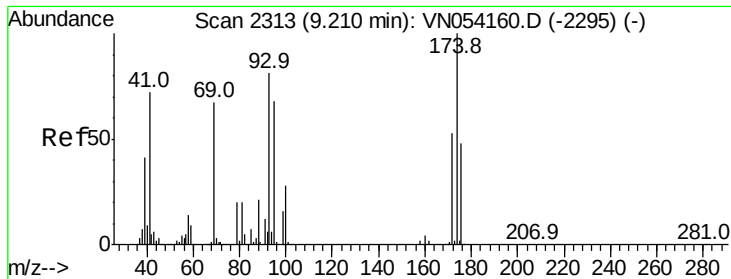
Tgt Ion: 63 Resp: 7809

Ion Ratio Lower Upper

63 100

65 21.6 25.0 37.6#





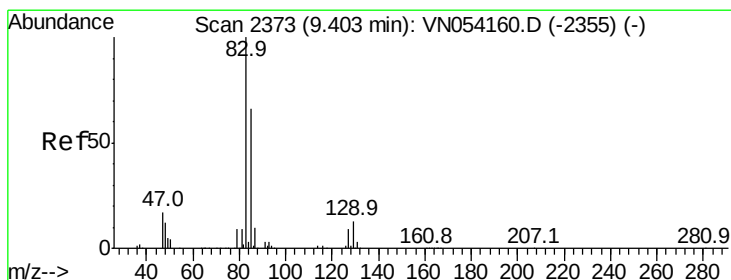
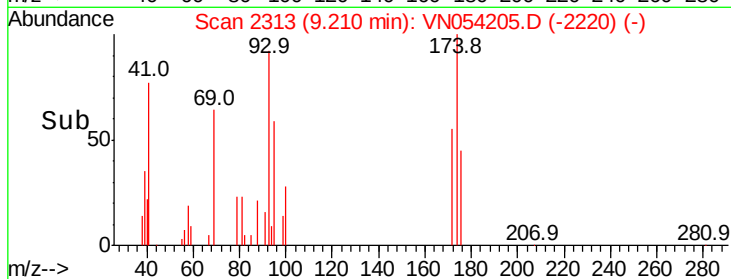
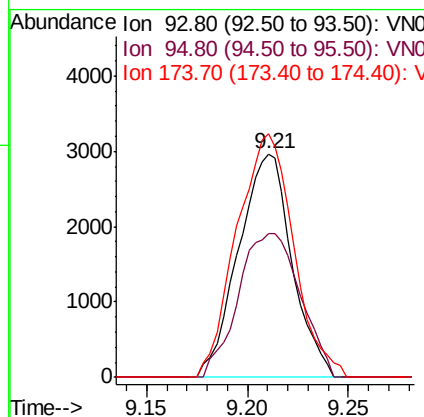
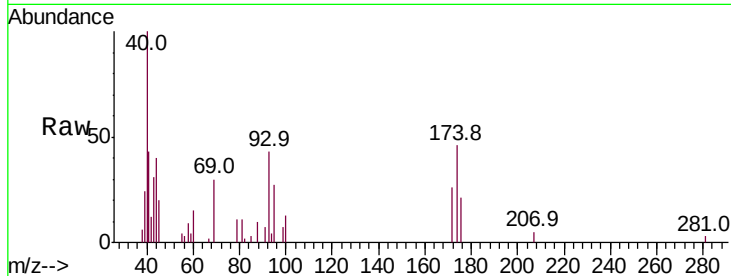
#46
Dibromomethane
Concen: 0.555 ug/l
RT: 9.21 min Scan# 2313
Delta R.T. 0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

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

Tot Ion	Ratio	Lower	Upper
93	100		
95	74.6	66.7	100.1
174	116.3	98.5	147.7

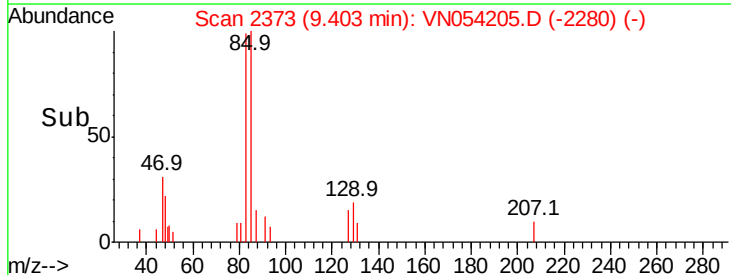
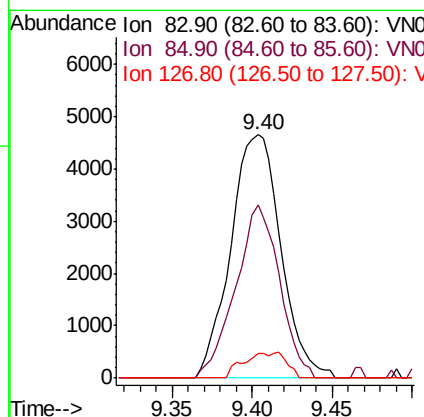
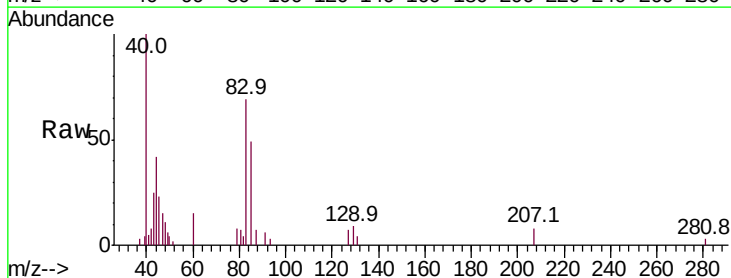
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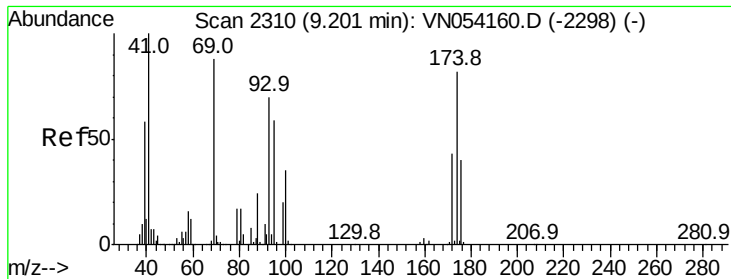
MMDadoda
3/14/2019 10:27:04 AM



#47
Bromodichloromethane
Concen: 0.504 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

Tgt Ion	Ratio	Lower	Upper
83	100		
85	71.0	52.8	79.2
127	10.4	7.4	11.2





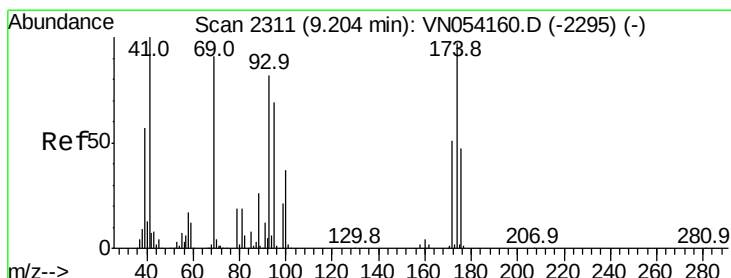
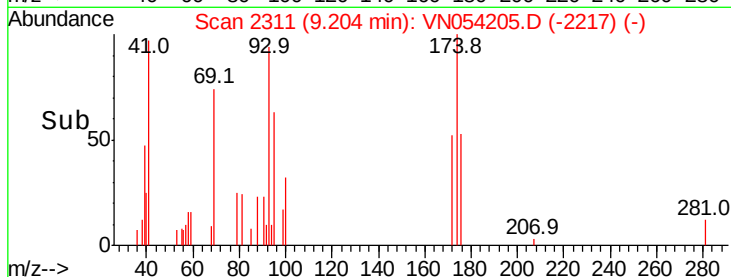
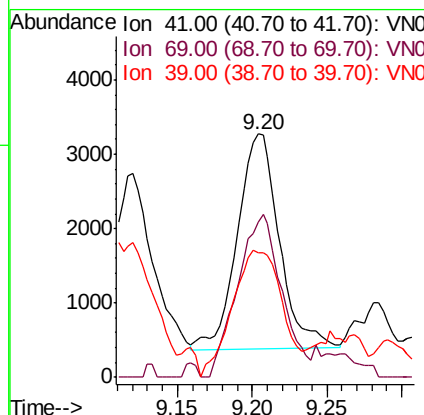
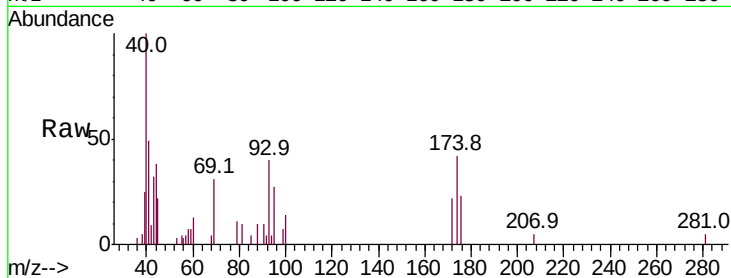
#48
Methvl methacrylate
Concen: 0.531 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

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

Tot Ion	Ratio	Lower	Upper
41	100		
69	80.9	72.6	108.8
39	70.6	47.5	71.3

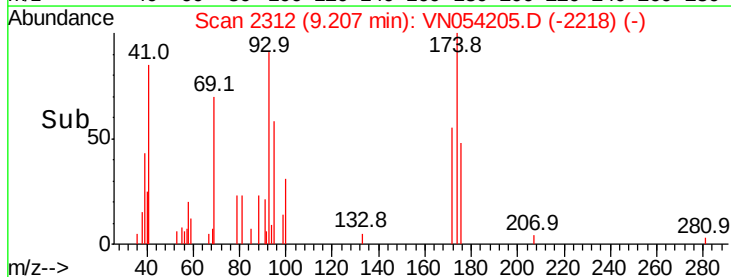
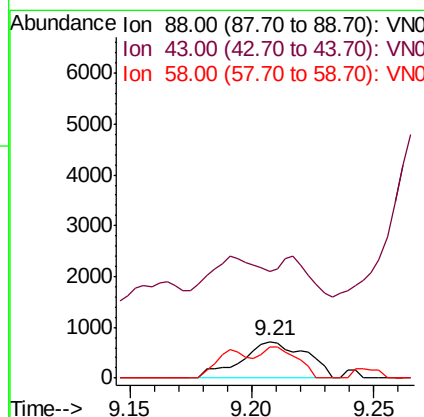
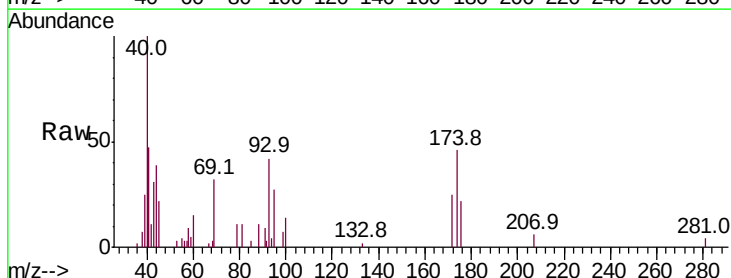
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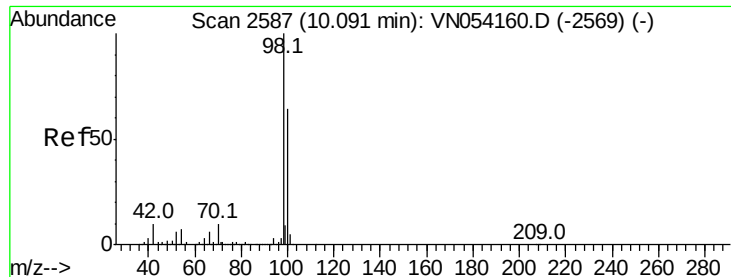
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#49
1,4-Dioxane
Concen: 8.761 ug/l
RT: 9.21 min Scan# 2312
Delta R.T. 0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

Tgt Ion	Ratio	Lower	Upper
88	100		
43	52.1	24.1	36.1#
58	48.2	50.8	76.2#





#50

Toluene-d8

Concen: 50.366 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 98 Resp: 2682302

Ion Ratio Lower Upper

98 100

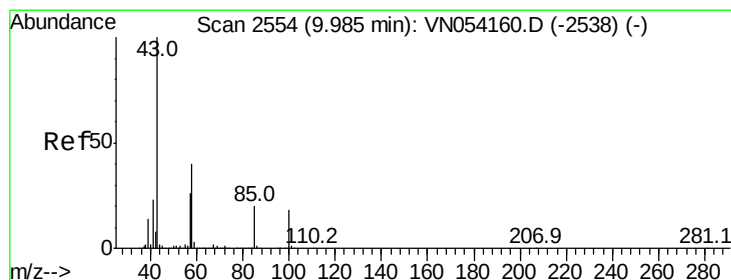
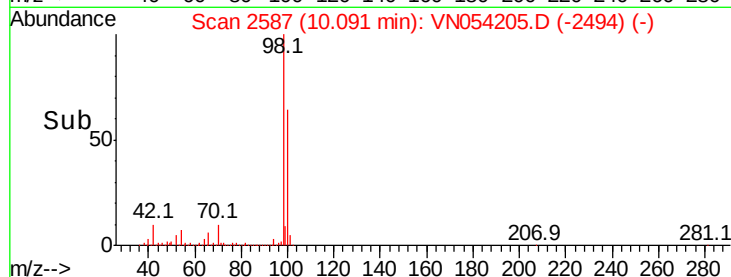
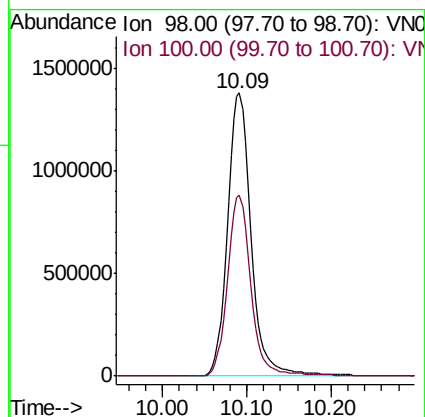
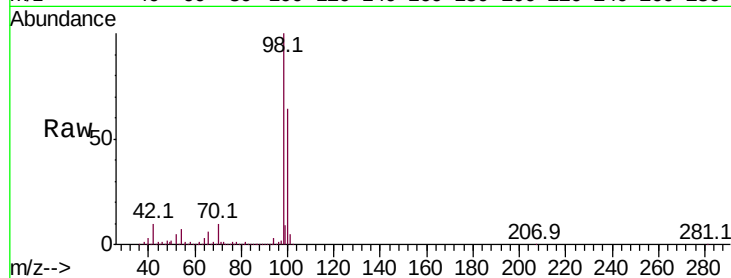
100 63.7 51.2 76.8

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#51

4-Methyl-2-Pentanone

Concen: 2.427 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN054205.D

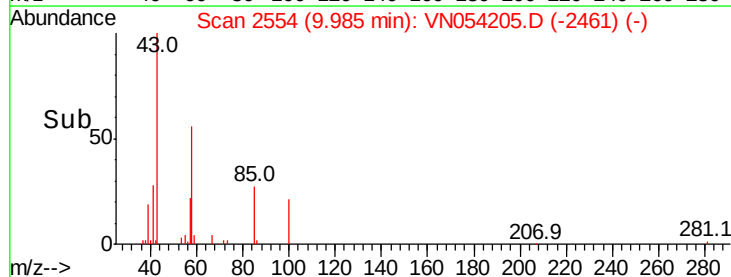
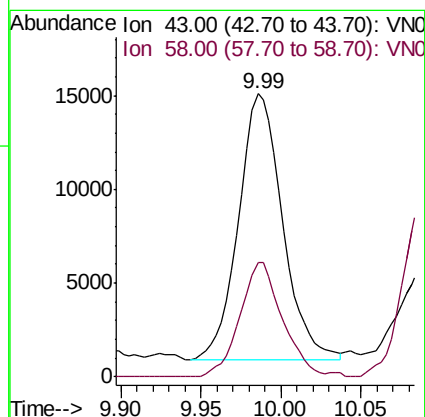
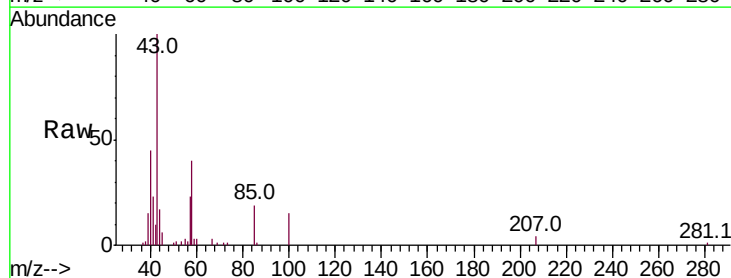
Acq: 13 Mar 2019 11:43

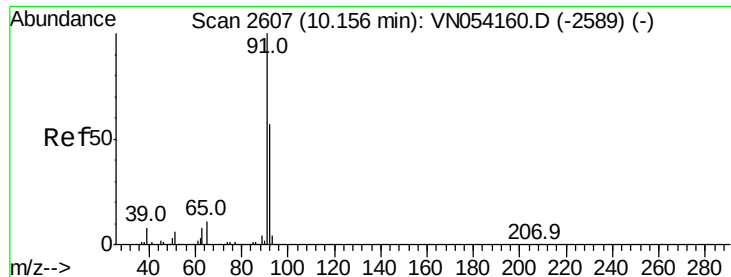
Tgt Ion: 43 Resp: 26668

Ion Ratio Lower Upper

43 100

58 41.2 31.8 47.6





#52

Toluene

Concen: 0.557 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 92 Resp: 20822

Ion Ratio Lower Upper

92 100

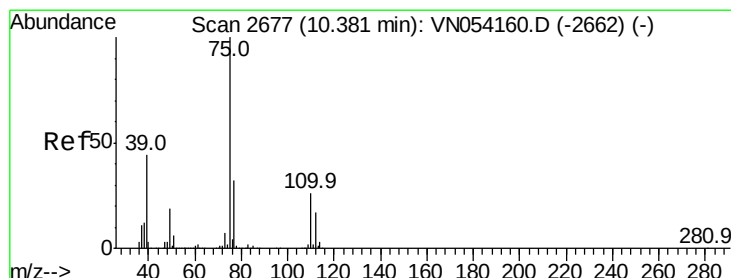
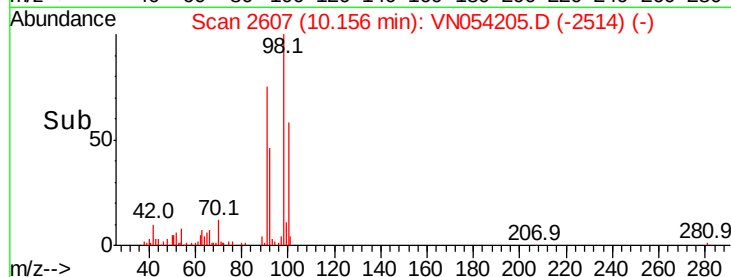
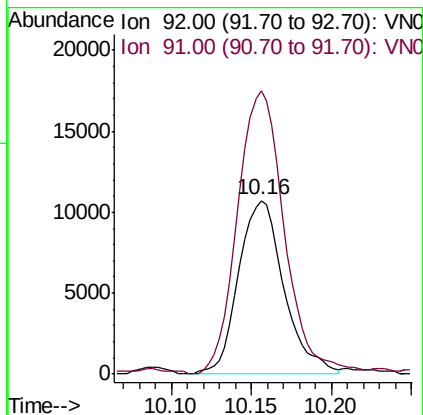
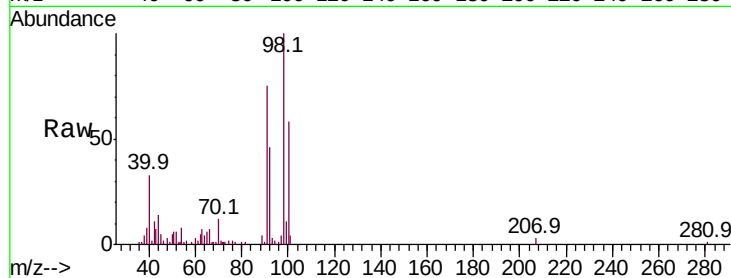
91 169.1 140.7 211.1

Manual Integrations

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#53

t-1,3-Dichloropropene

Concen: 2.381 ug/l

RT: 10.38 min Scan# 2677

Delta R.T. 0.00 min

Lab File: VN054205.D

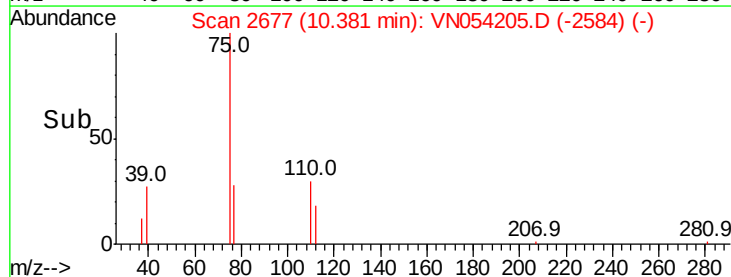
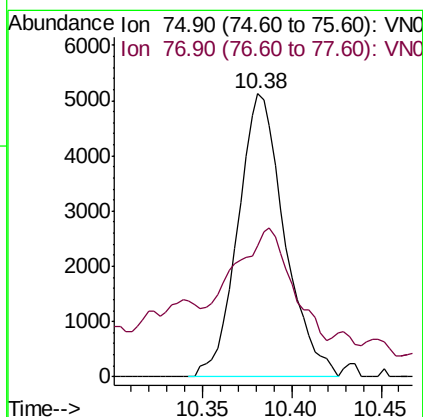
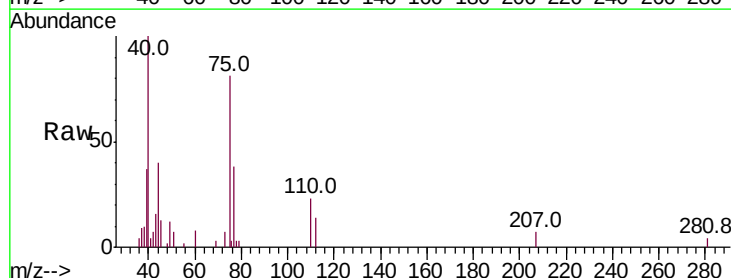
Acq: 13 Mar 2019 11:43

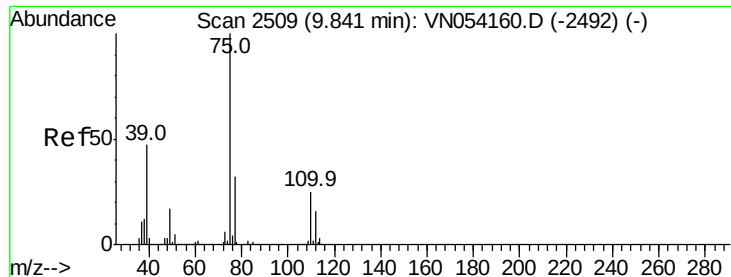
Tgt Ion: 75 Resp: 9321

Ion Ratio Lower Upper

75 100

77 30.8 25.8 38.8





#54

cis-1,3-Dichloropropene

Concen: 0.465 ug/l

RT: 9.84 min Scan# 2508

Delta R.T. -0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

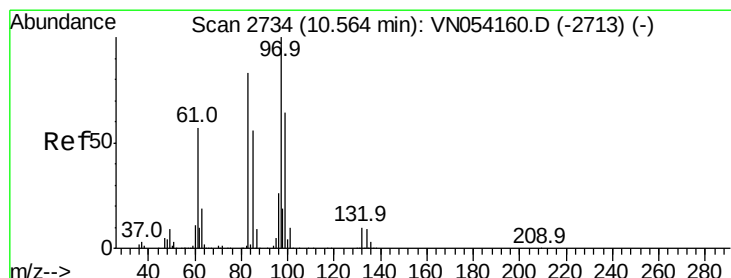
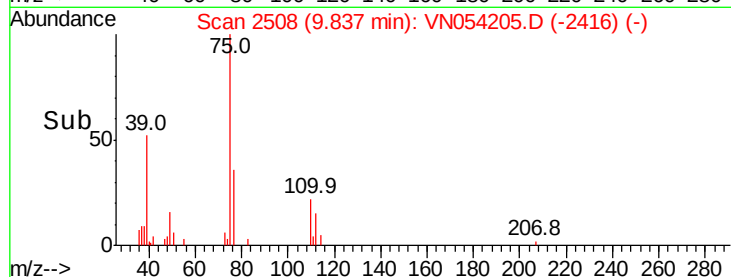
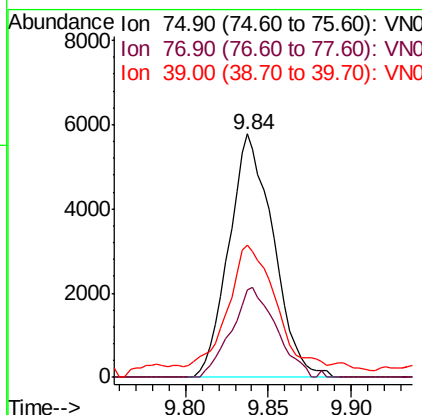
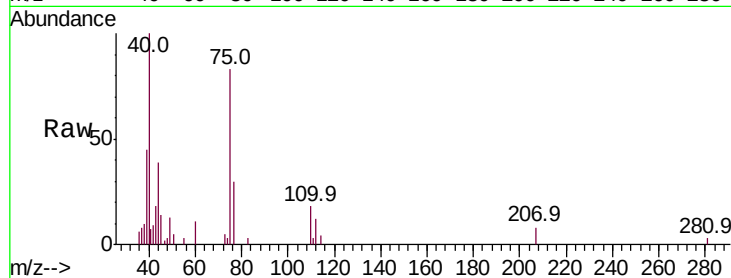
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	75	Resp:	10737
Ion Ratio	Lower	Upper	
75	100		
77	36.1	25.4	38.0
39	49.8	37.2	55.8

Manual Integrations
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#55

1,1,2-Trichloroethane

Concen: 0.535 ug/l

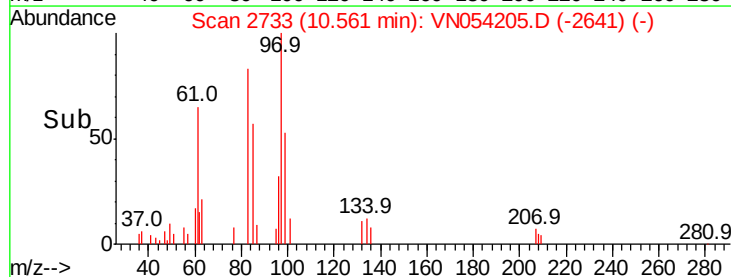
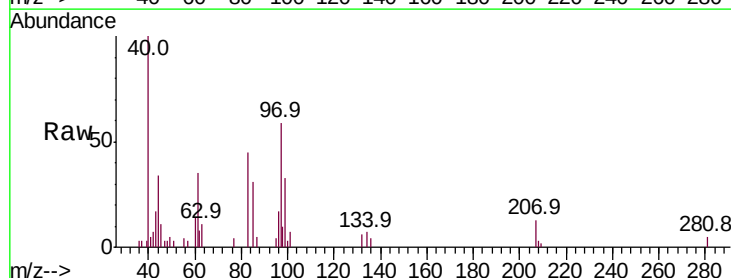
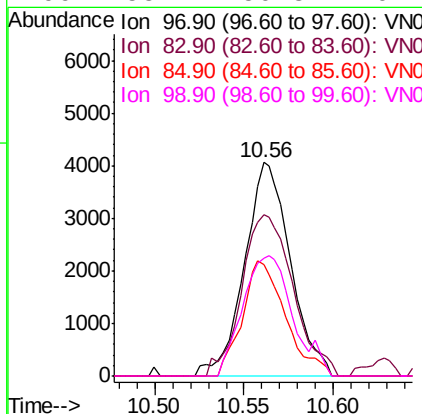
RT: 10.56 min Scan# 2733

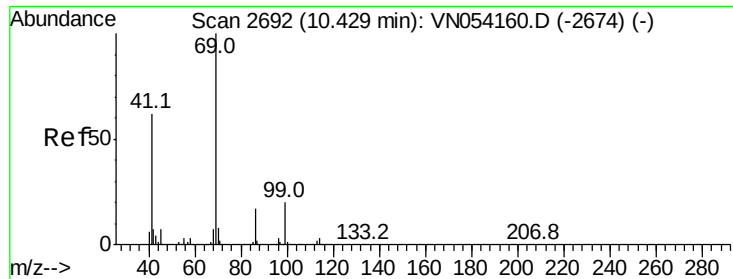
Delta R.T. -0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Tgt Ion:	97	Resp:	7300
Ion Ratio	Lower	Upper	
97	100		
83	75.8	66.6	100.0
85	52.0	44.4	66.6
99	55.4	50.8	76.2





#56

Ethyl methacrylate

Concen: 0.485 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

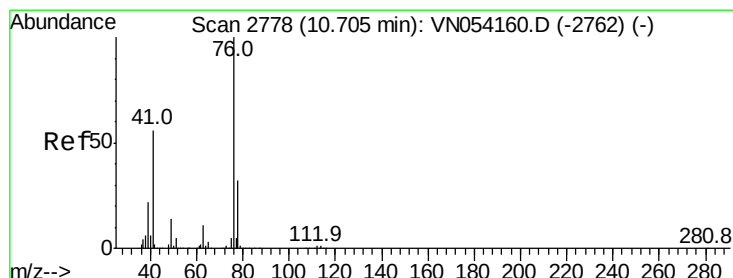
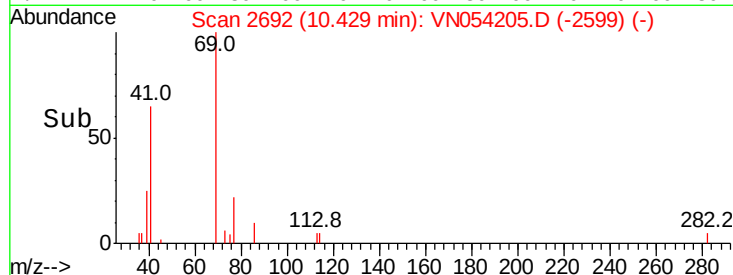
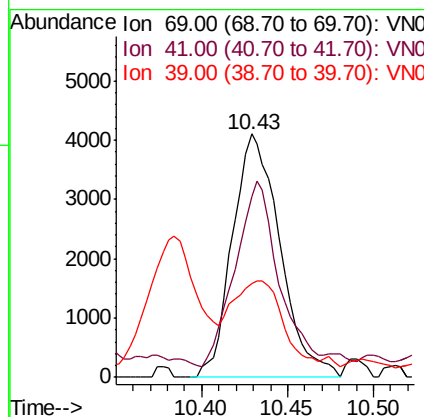
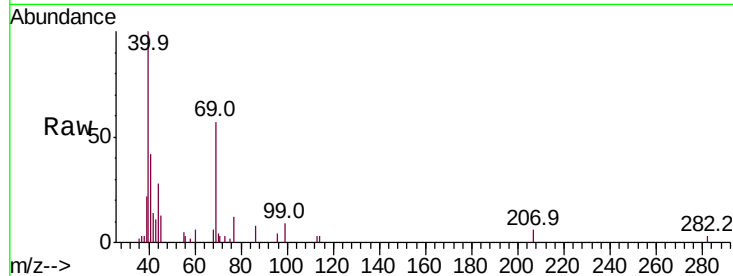
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	69	Resp:	7883
Ion	Ratio	Lower	Upper
69	100		
41	69.3	49.4	74.2
39	36.0	28.3	42.5

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#57

1,3-Dichloropropane

Concen: 0.496 ug/l

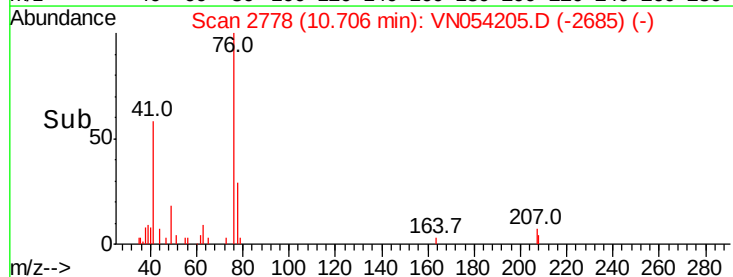
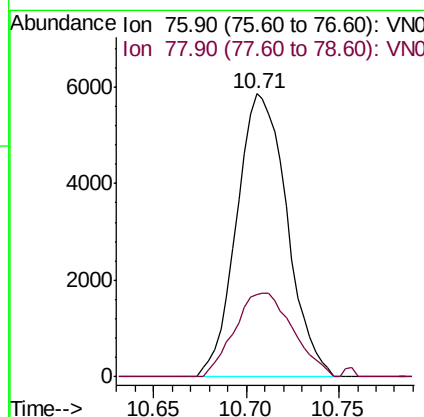
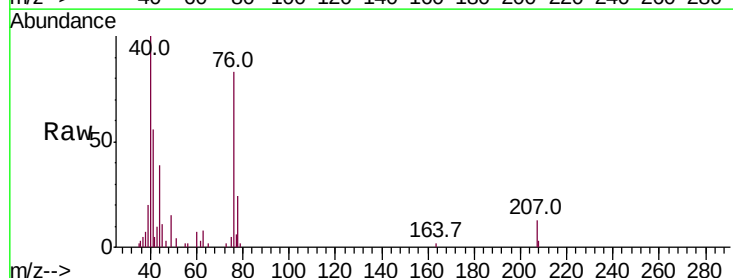
RT: 10.71 min Scan# 2778

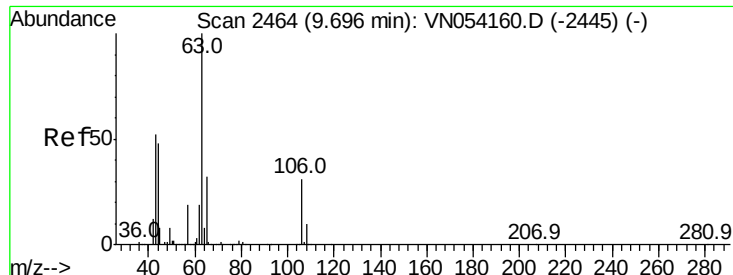
Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Tgt Ion:	76	Resp:	11069
Ion	Ratio	Lower	Upper
76	100		
78	34.4	25.7	38.5





#58

2-Chloroethyl Vinyl ether

Concen: 18.841 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 63 Resp: 15227

Ion Ratio Lower Upper

63 100

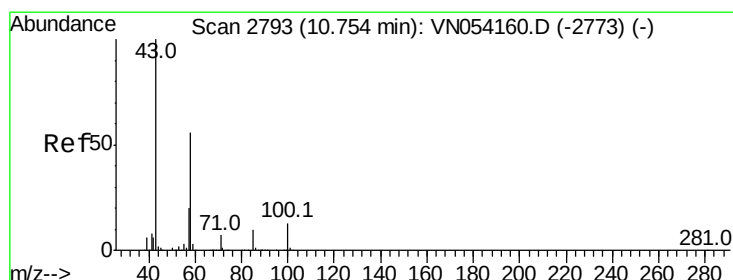
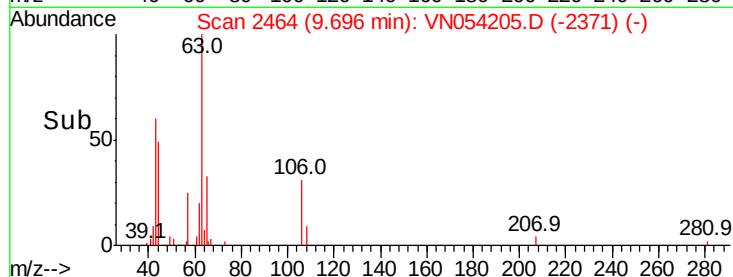
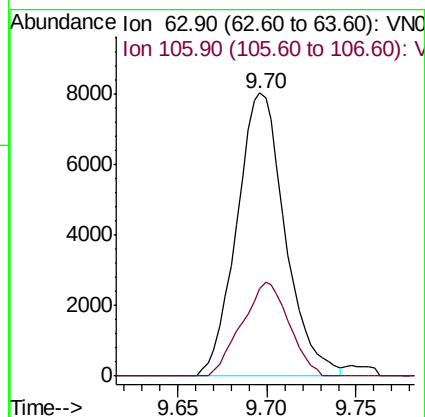
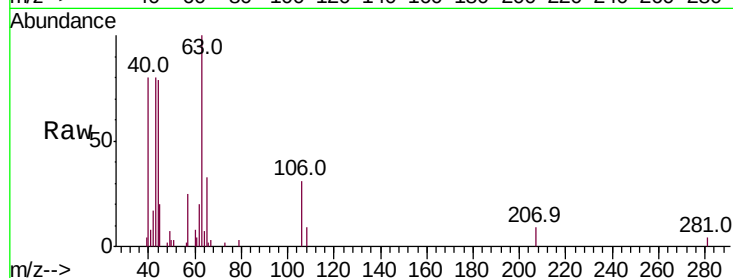
106 32.3 24.4 36.6

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#59

2-Hexanone

Concen: 2.299 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VN054205.D

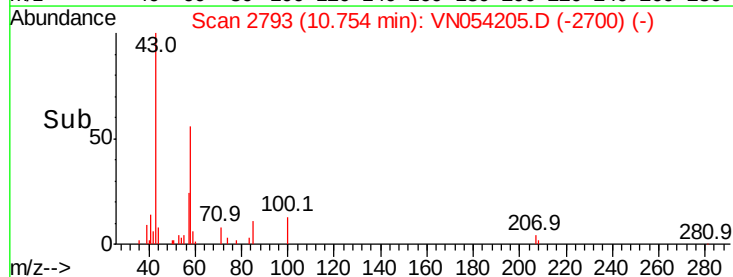
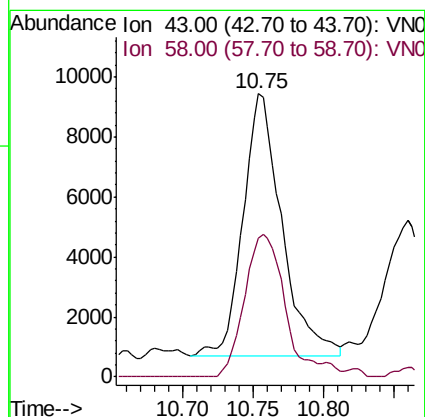
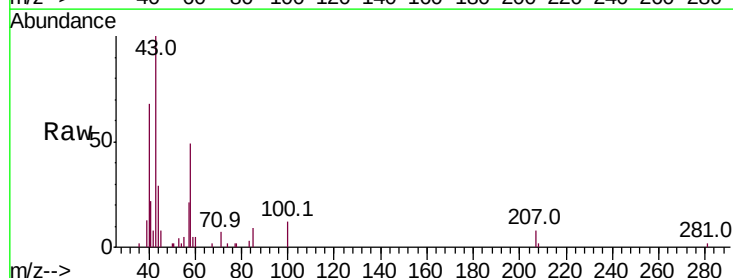
Acq: 13 Mar 2019 11:43

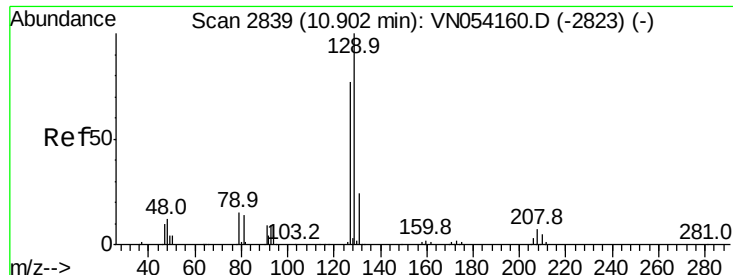
Tgt Ion: 43 Resp: 16813

Ion Ratio Lower Upper

43 100

58 57.9 28.0 83.9





#60

Dibromochloromethane

Concen: 0.427 ug/l

RT: 10.90 min Scan# 2839

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:129 Resp: 6554

Ion Ratio Lower Upper

129 100

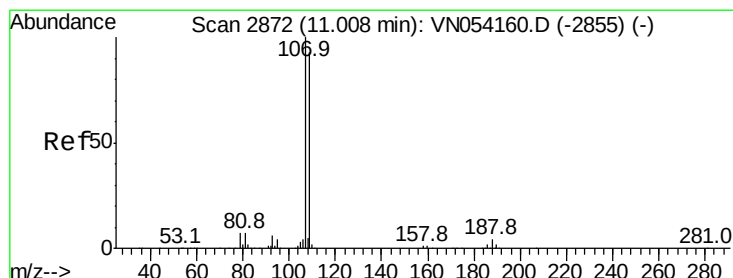
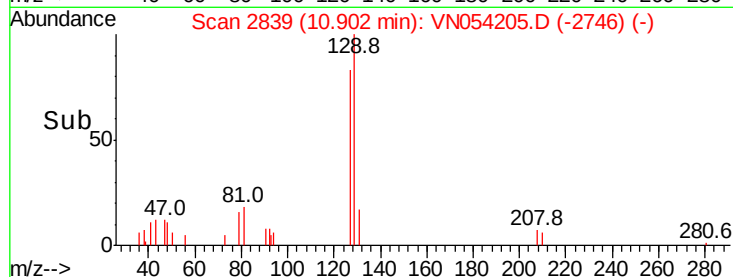
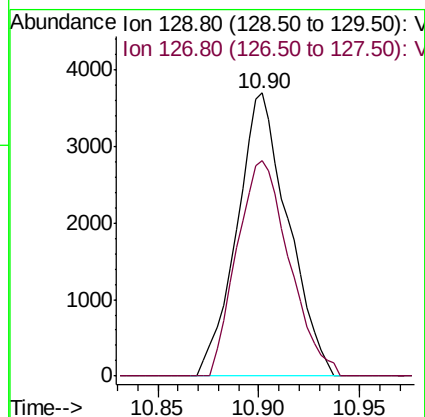
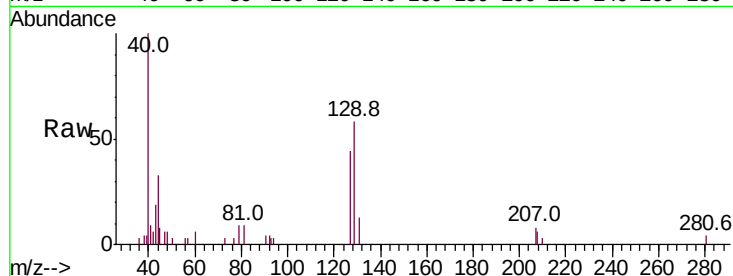
127 78.1 38.6 115.8

Manual Integrations

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#61

1,2-Dibromoethane

Concen: 0.518 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. 0.00 min

Lab File: VN054205.D

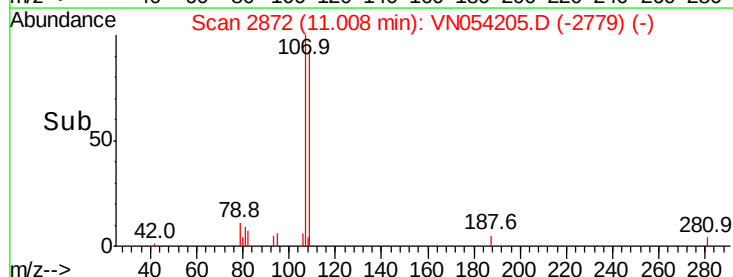
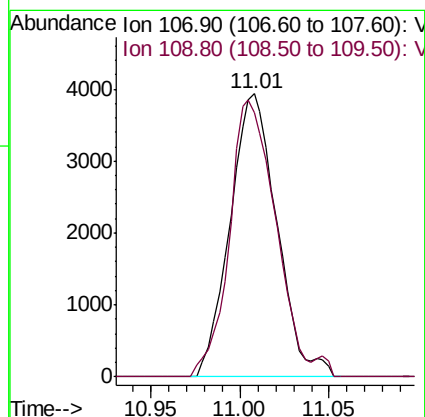
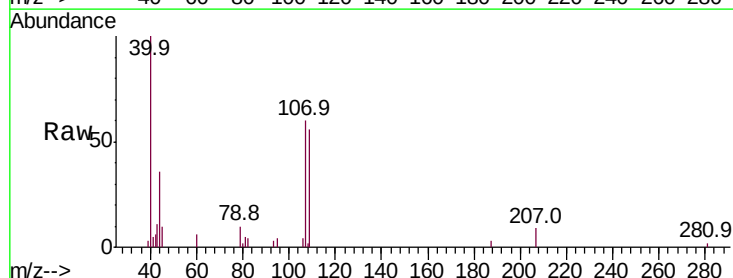
Acq: 13 Mar 2019 11:43

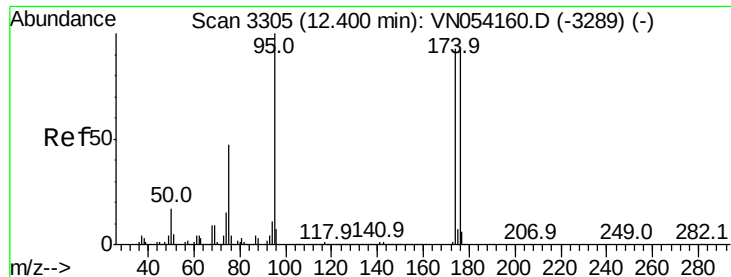
Tgt Ion:107 Resp: 7185

Ion Ratio Lower Upper

107 100

109 95.5 75.9 113.9





#62

4-Bromofluorobenzene

Concen: 46.825 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

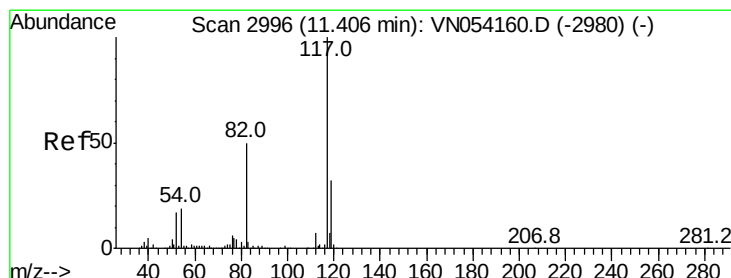
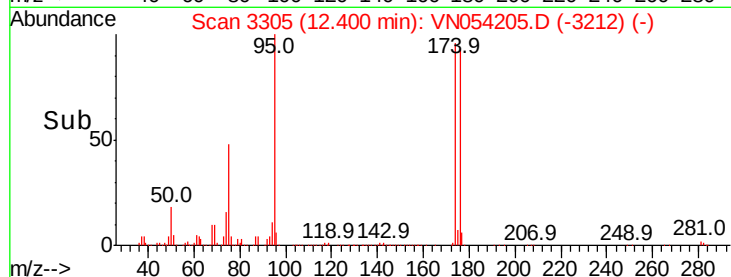
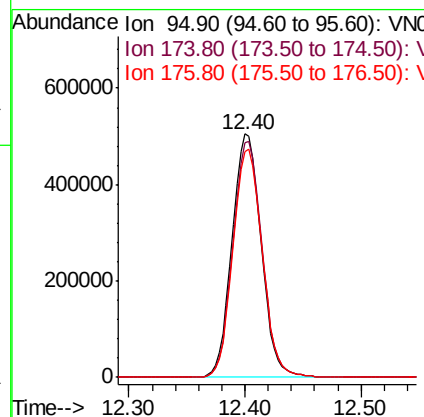
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	95	Resp:	872560
Ion Ratio	Lower	Upper	
95	100		
174	97.4	0.0	191.0
176	94.6	0.0	187.4

Manual Integrations
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#63

Chlorobenzene-d5

Concen: 50.000 ug/l

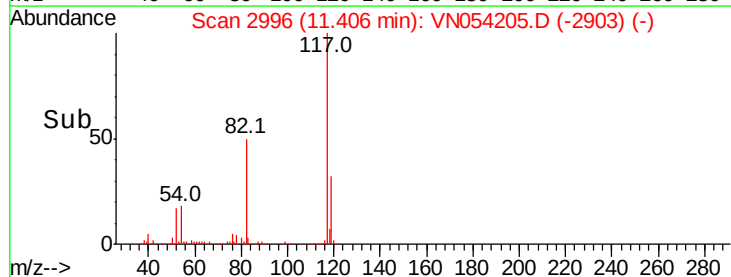
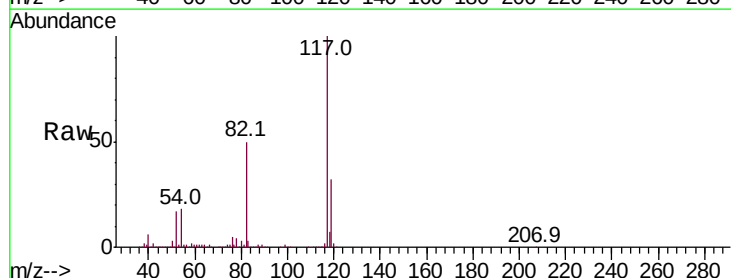
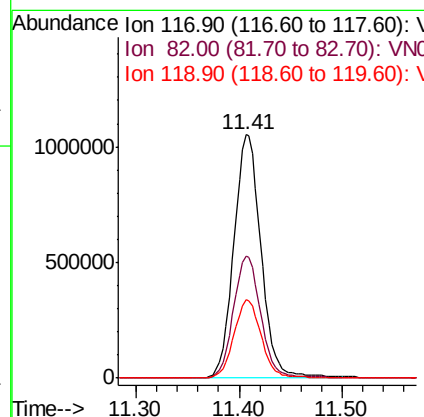
RT: 11.41 min Scan# 2996

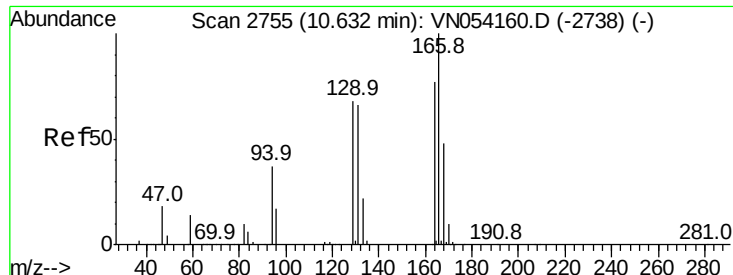
Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Tgt Ion:	117	Resp:	1942494
Ion Ratio	Lower	Upper	
117	100		
82	50.3	40.0	60.0
119	32.0	25.8	38.6





#64

Tetrachloroethene

Concen: 0.579 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:164 Resp: 10881

Ion Ratio Lower Upper

164 100

166 114.9 103.9 155.9

129 76.3 71.1 106.7

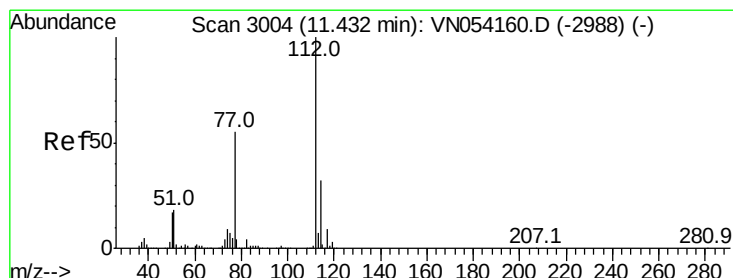
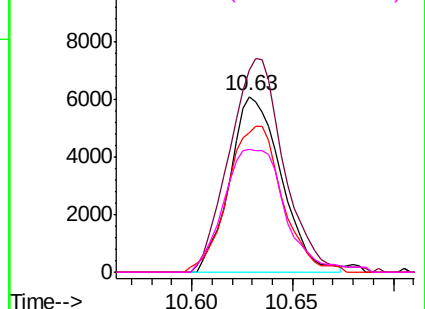
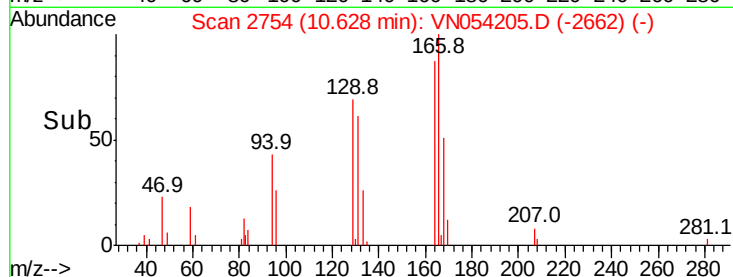
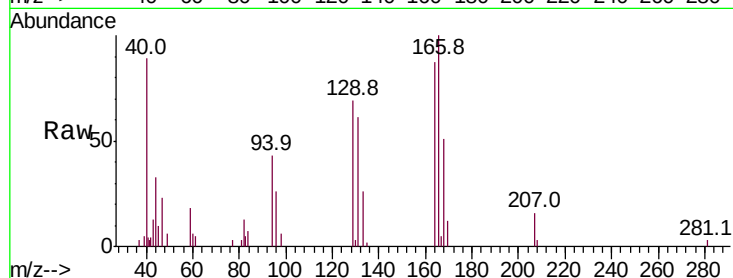
131 70.2 68.2 102.4

Manual Integrations

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#65

Chlorobenzene

Concen: 0.559 ug/l

RT: 11.43 min Scan# 3004

Delta R.T. 0.00 min

Lab File: VN054205.D

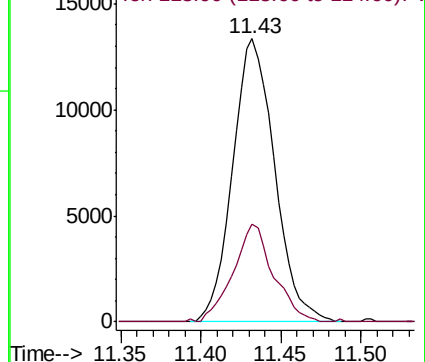
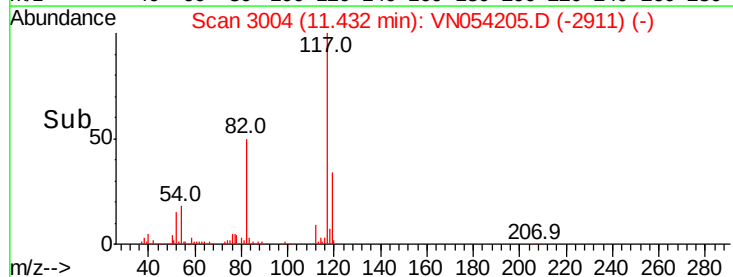
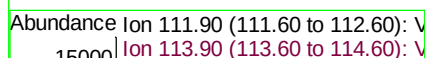
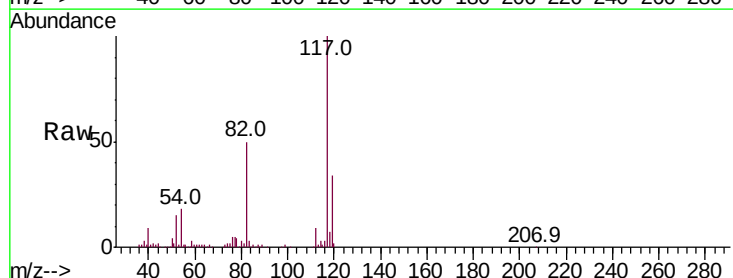
Acq: 13 Mar 2019 11:43

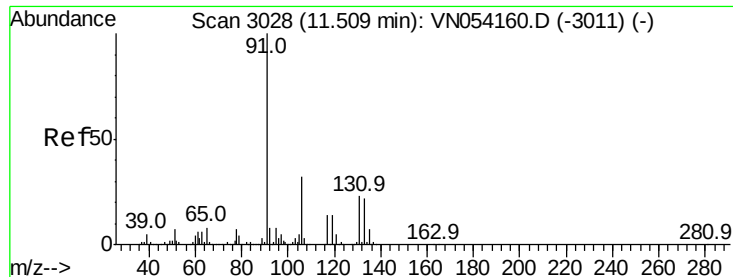
Tgt Ion:112 Resp: 23862

Ion Ratio Lower Upper

112 100

114 33.3 25.9 38.9





#66

1,1,1,2-Tetrachloroethane

Concen: 0.516 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

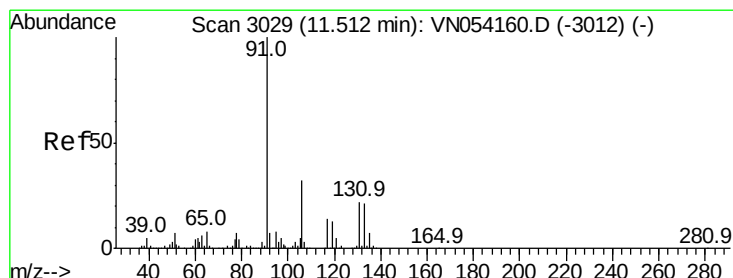
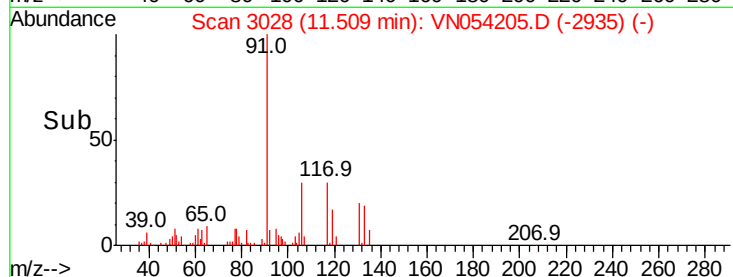
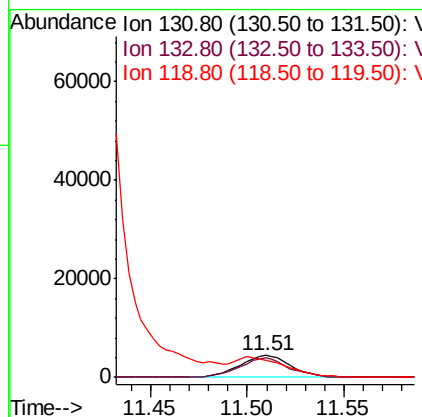
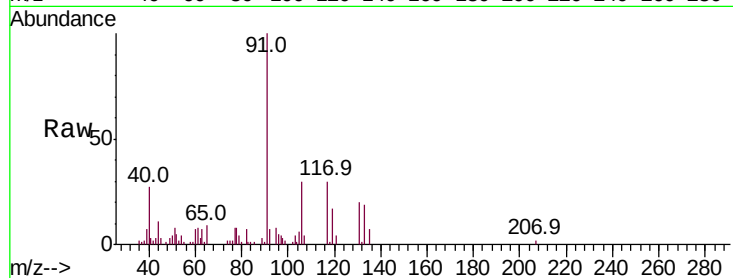
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion	Ratio	Lower	Upper
131	100		
133	87.0	47.6	142.9
119	0.0	32.4	97.0#

Manual Integrations
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#67

Ethyl Benzene

Concen: 0.556 ug/l

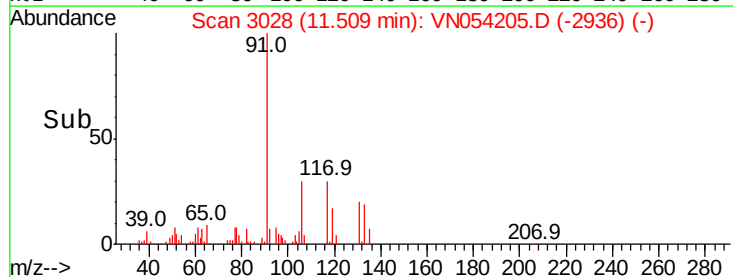
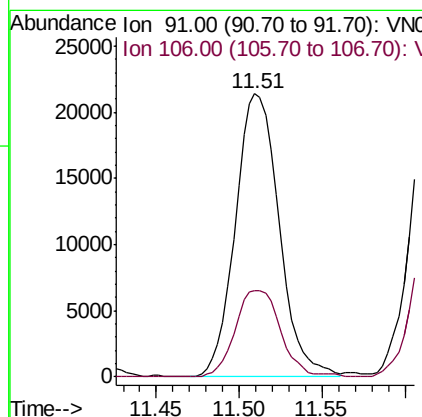
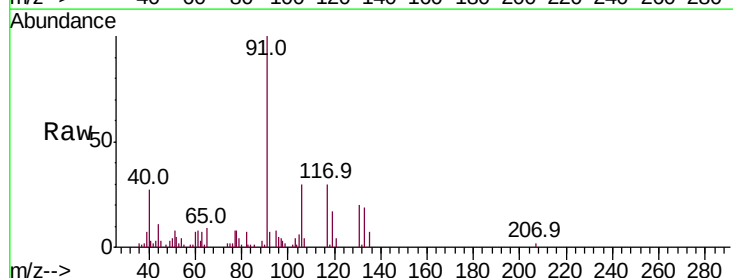
RT: 11.51 min Scan# 3028

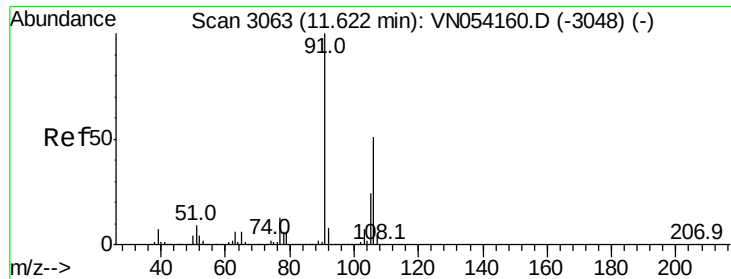
Delta R.T. -0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.4	25.5	38.3





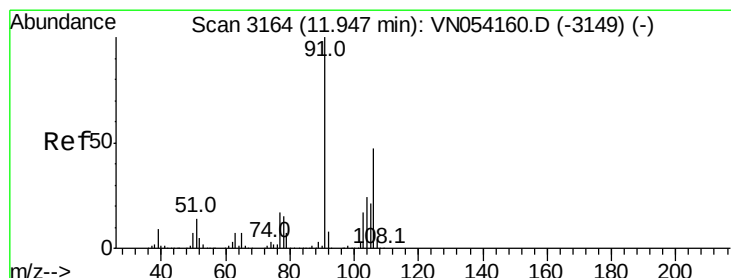
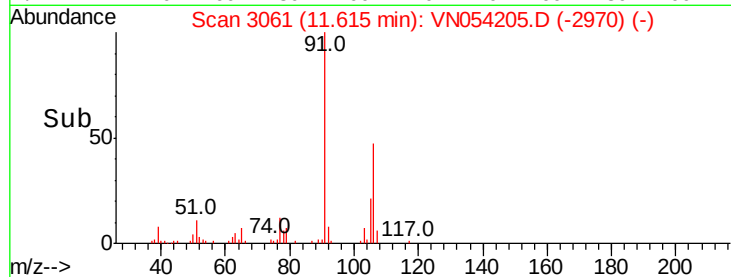
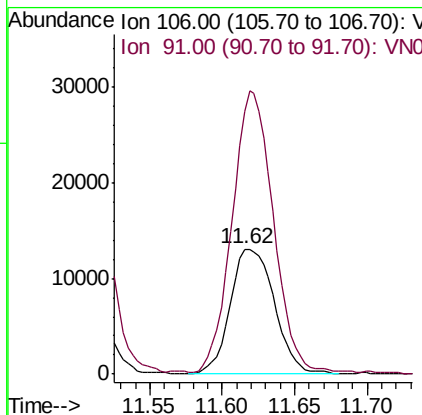
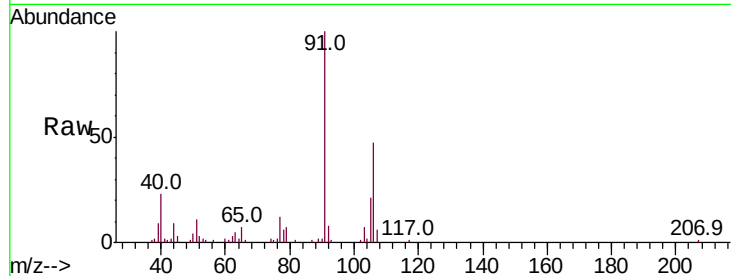
#68
m/p-Xylenes
Concen: 1.002 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. -0.01 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

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

Tot Ion:106 Resp: 27687
Ion Ratio Lower Upper
106 100
91 208.2 159.4 239.2

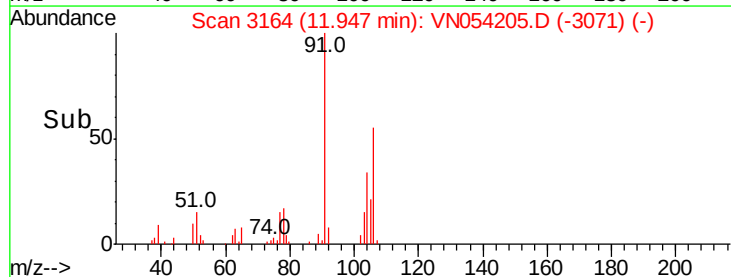
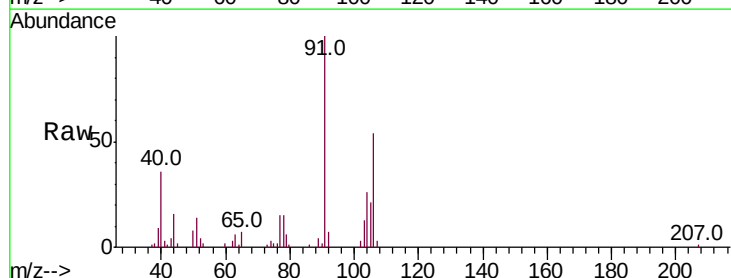
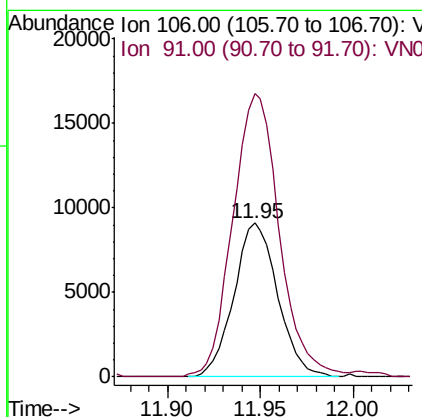
Manual Integrations
APPROVED

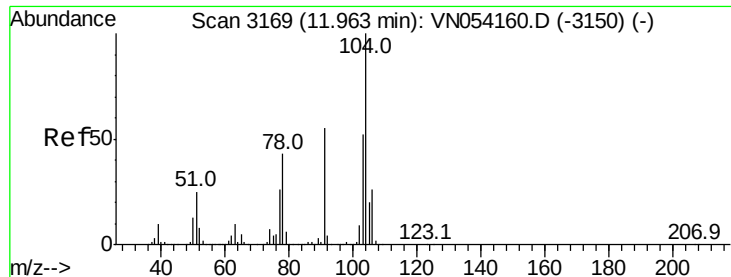
MMDadoda
3/14/2019 10:27:04 AM



#69
o-Xylene
Concen: 0.554 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

Tgt Ion:106 Resp: 14914
Ion Ratio Lower Upper
106 100
91 195.8 105.7 317.1





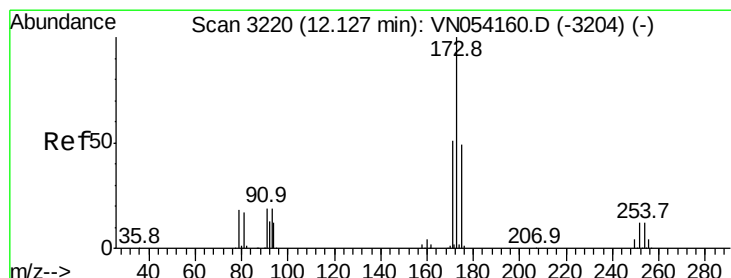
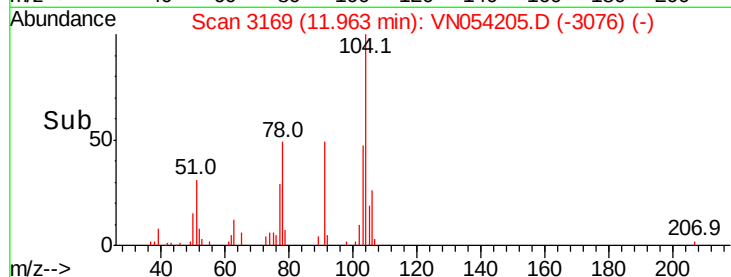
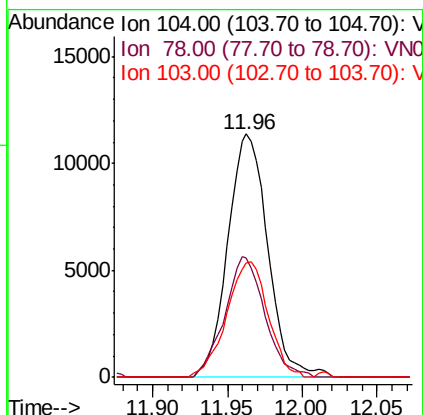
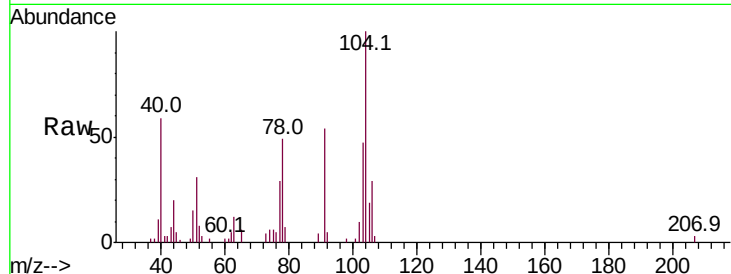
#70
Stvrene
Concen: 0.500 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

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

Tot Ion	Ratio	Lower	Upper
104	100		
78	49.5	38.2	57.2
103	49.3	44.4	66.6

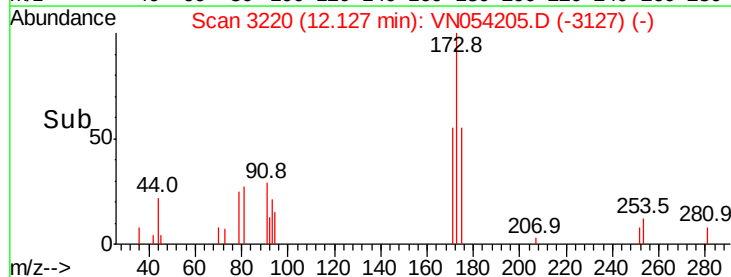
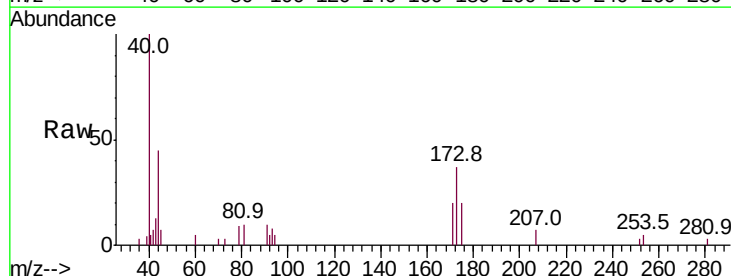
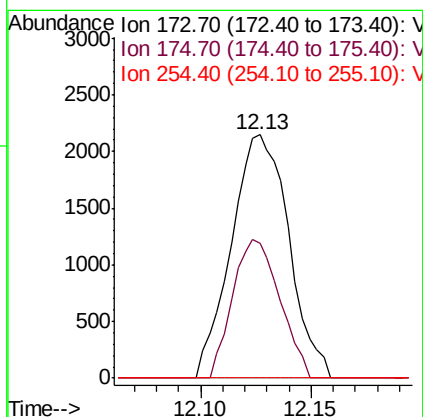
Manual Integrations
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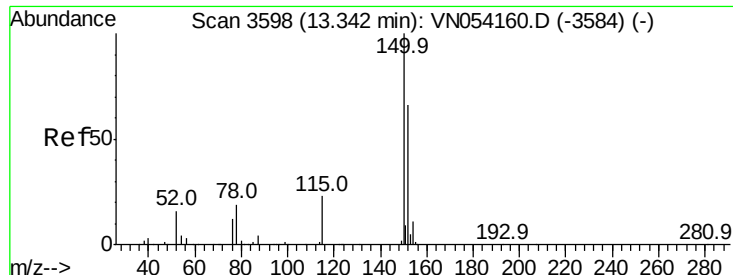
MMDadoda
3/14/2019 10:27:04 AM



#71
Bromoform
Concen: 2.664 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. 0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

Tgt Ion	Ratio	Lower	Upper
173	100		
175	46.7	24.4	73.2
254	0.0	0.1	0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

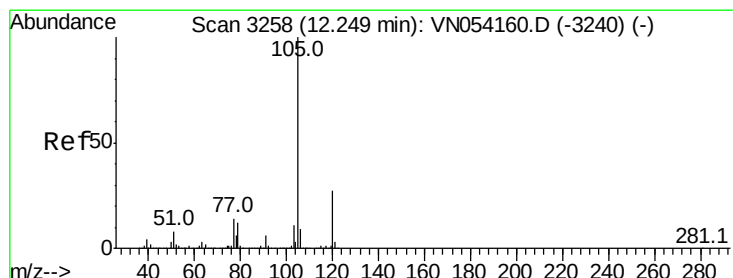
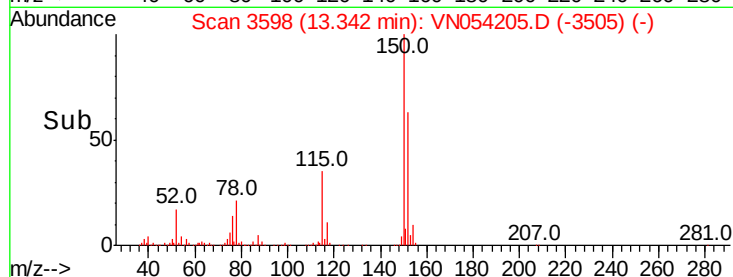
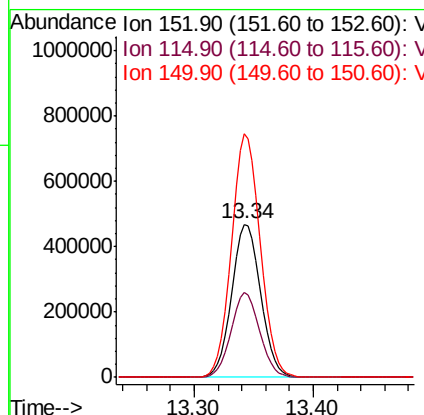
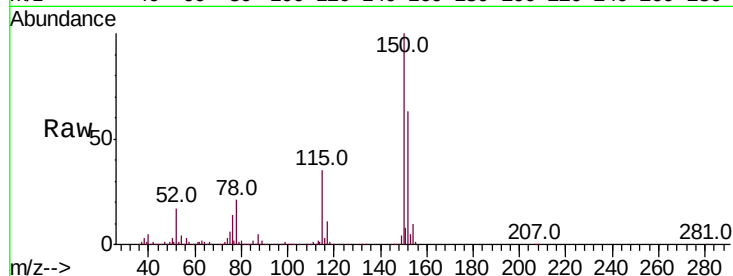
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	152	Resp:	789528
Ion Ratio	Lower	Upper	
152	100		
115	54.8	27.2	81.6
150	157.7	0.0	349.2

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#73

Isopropylbenzene

Concen: 0.612 ug/l

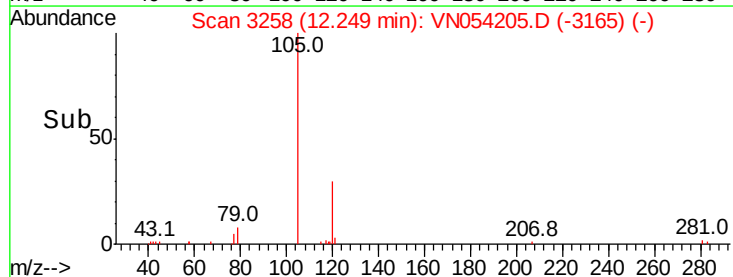
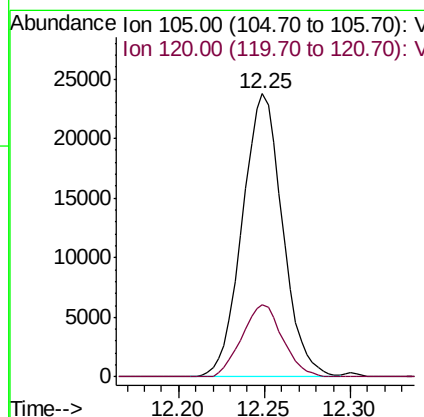
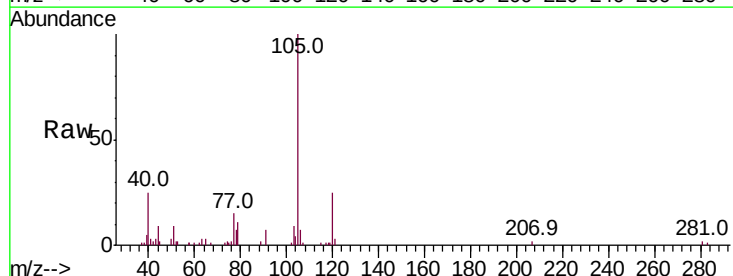
RT: 12.25 min Scan# 3258

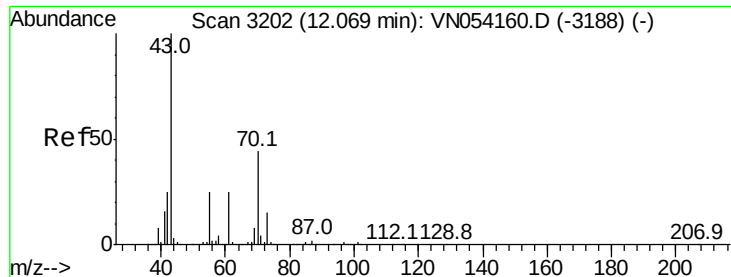
Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Tgt Ion:	105	Resp:	38680
Ion Ratio	Lower	Upper	
105	100		
120	25.7	13.8	41.3





#74

N-amyl acetate

Concen: 0.478 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

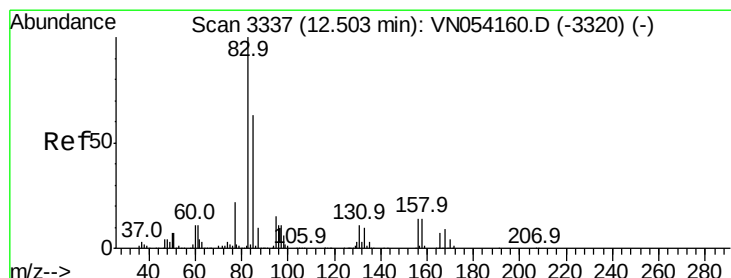
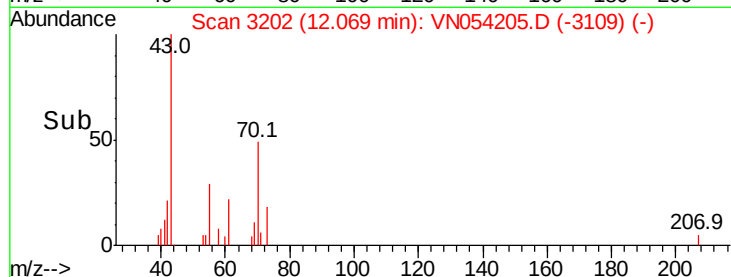
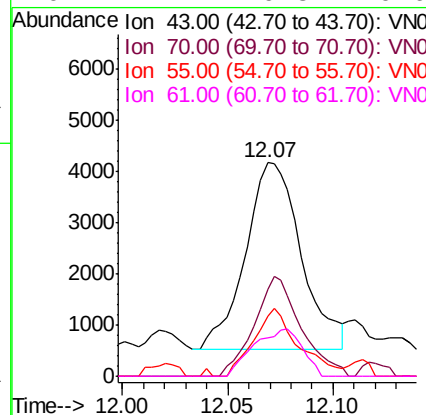
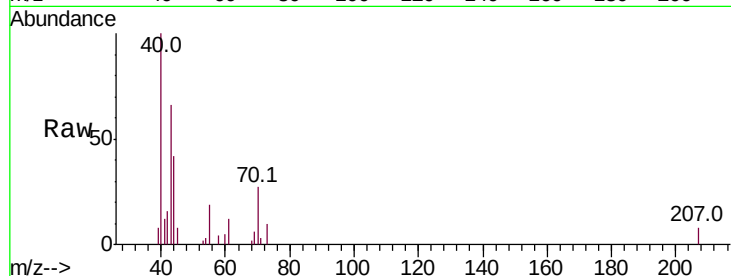
ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:	43	Resp:	6706
Ion	Ratio	Lower	Upper
43	100		
70	44.6	35.4	53.0
55	29.4	19.8	29.6
61	22.1	19.8	29.6

Manual Integrations
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#75

1,1,2,2-Tetrachloroethane

Concen: 0.578 ug/l

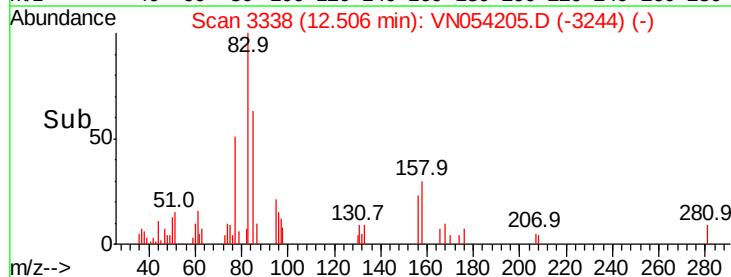
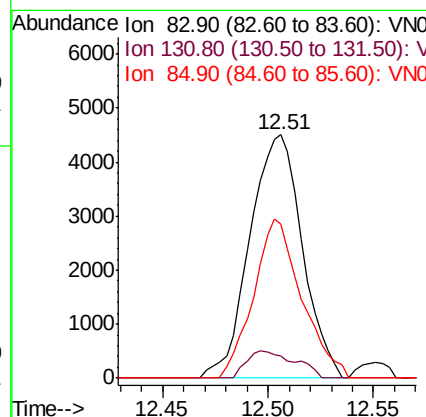
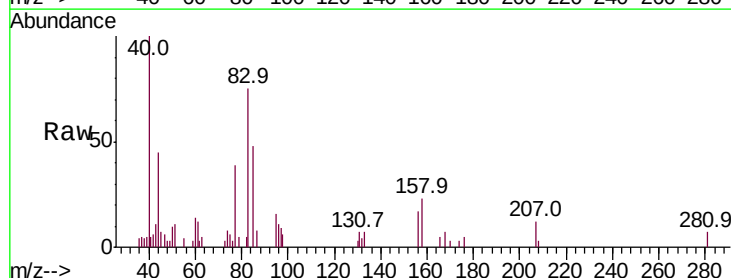
RT: 12.51 min Scan# 3338

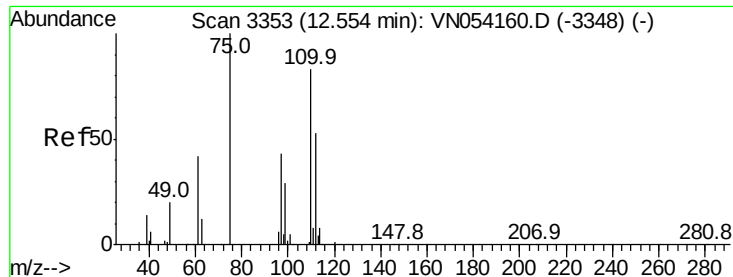
Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Tgt Ion:	83	Resp:	7785
Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.8	17.4
85	59.8	32.2	96.6





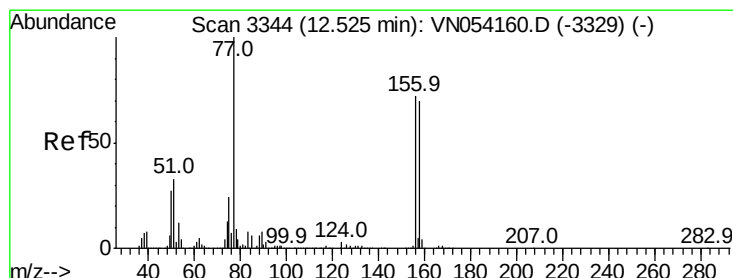
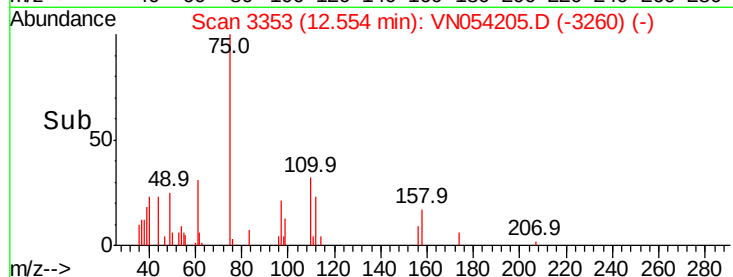
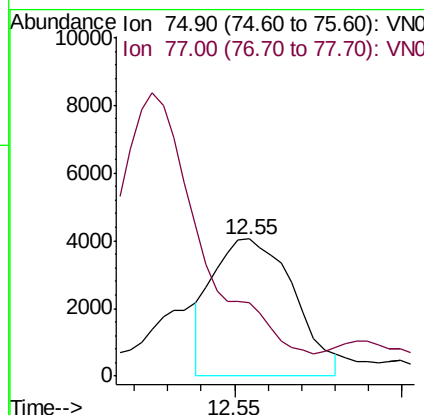
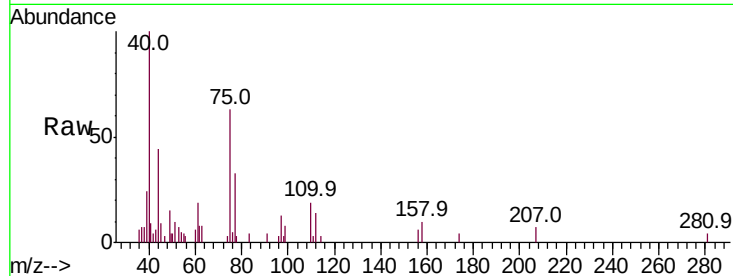
#76
 1,2,3-Trichloropropane
 Concen: 0.588 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN054205.D
 Acq: 13 Mar 2019 11:43

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

Tot Ion: 75 Resp: 6828
 Ion Ratio Lower Upper
 75 100
 77 66.6 0.0 0.0#

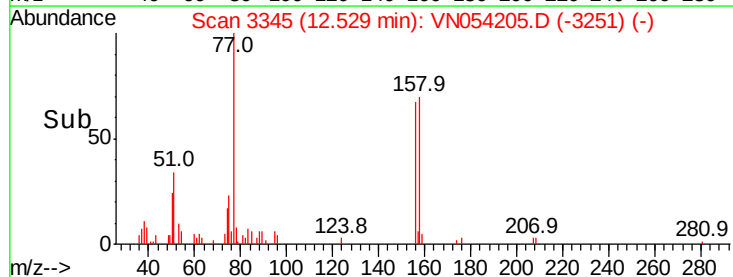
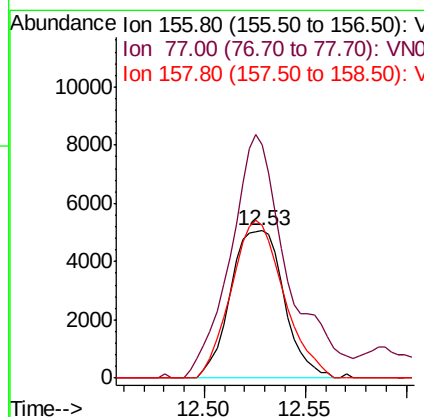
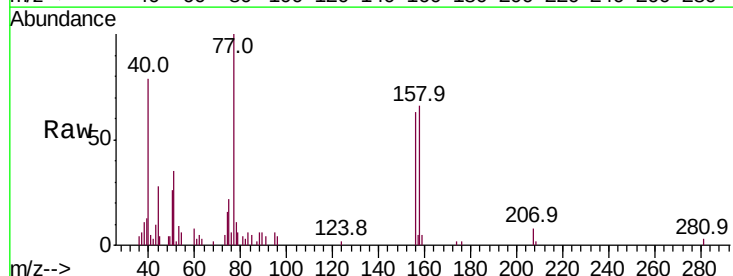
Manual Integrations
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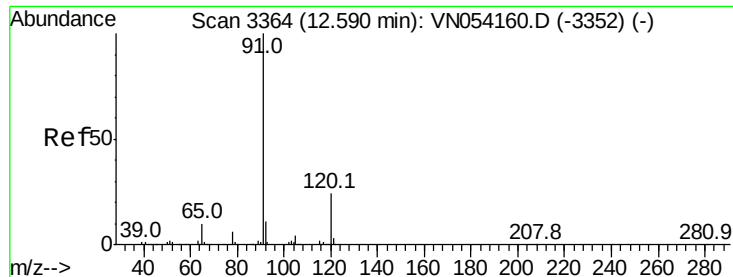
MMDadoda
 3/14/2019 10:27:04 AM



#77
 Bromobenzene
 Concen: 0.563 ug/l
 RT: 12.53 min Scan# 3345
 Delta R.T. 0.00 min
 Lab File: VN054205.D
 Acq: 13 Mar 2019 11:43

Tgt Ion: 156 Resp: 9404
 Ion Ratio Lower Upper
 156 100
 77 176.1 81.5 244.4
 158 104.9 49.0 147.2





#78

n-propylbenzene

Concen: 0.580 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 91 Resp: 39732

Ion Ratio Lower Upper

91 100

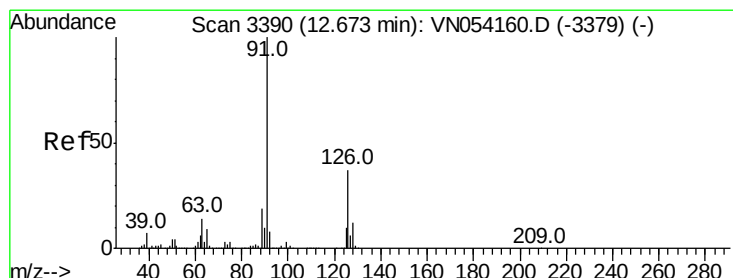
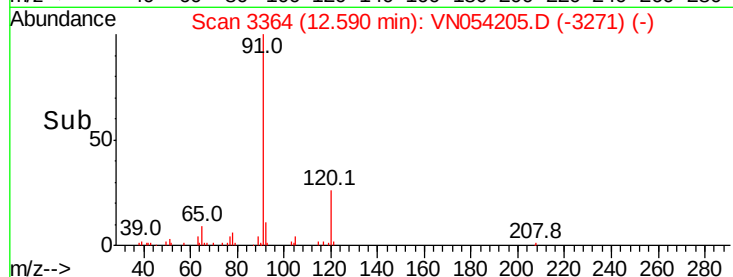
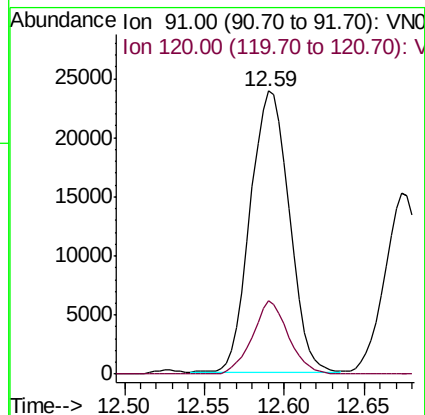
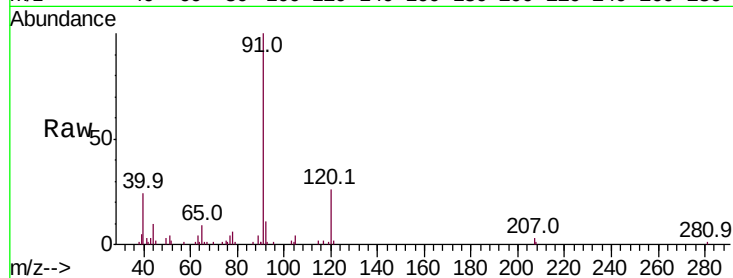
120 23.9 12.3 36.9

Manual Integrations

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#79

2-Chlorotoluene

Concen: 0.610 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054205.D

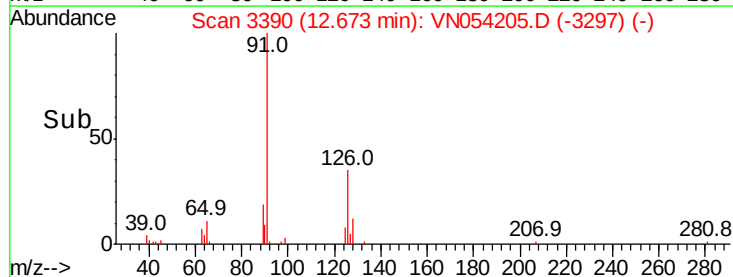
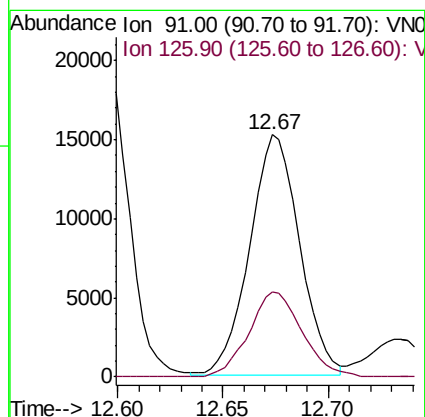
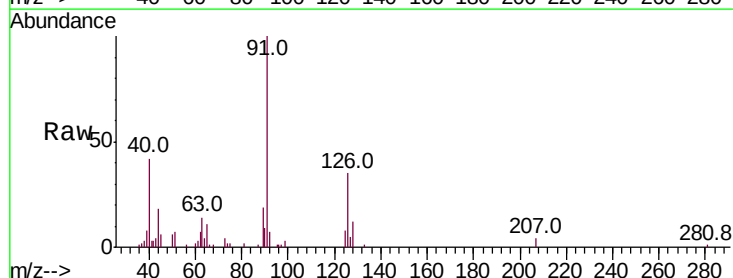
Acq: 13 Mar 2019 11:43

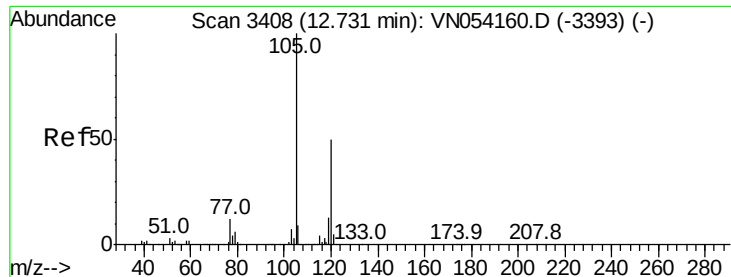
Tgt Ion: 91 Resp: 25130

Ion Ratio Lower Upper

91 100

126 37.4 18.7 56.1





#80

1,3,5-Trimethylbenzene

Concen: 0.557 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:105 Resp: 29257

Ion Ratio Lower Upper

105 100

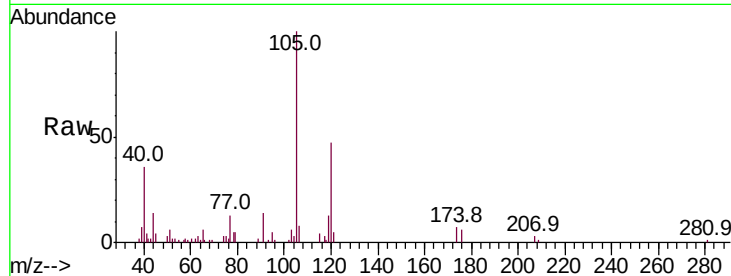
120 48.3 25.0 75.0

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.73

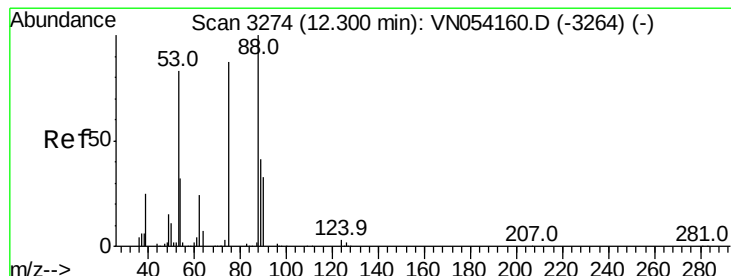
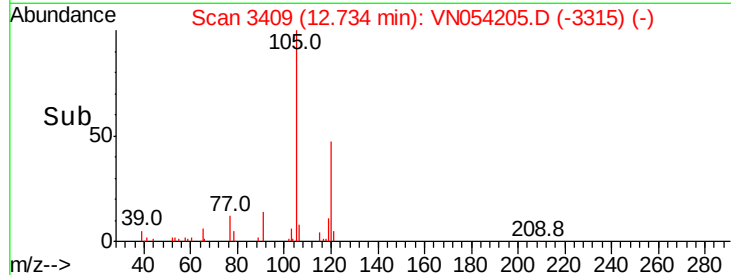
15000

10000

5000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 0.351 ug/l m

RT: 12.30 min Scan# 3275

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

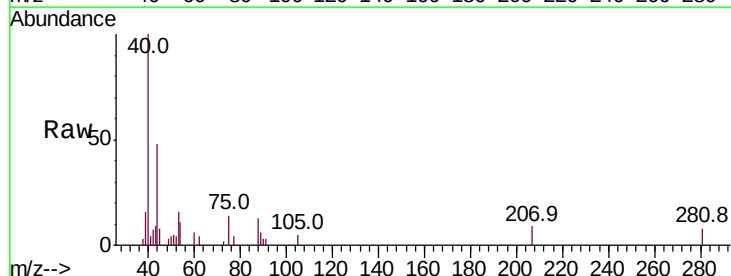
Tgt Ion: 75 Resp: 1192

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

1200

1000

800

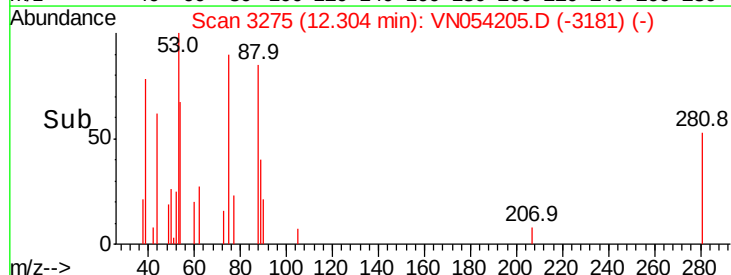
600

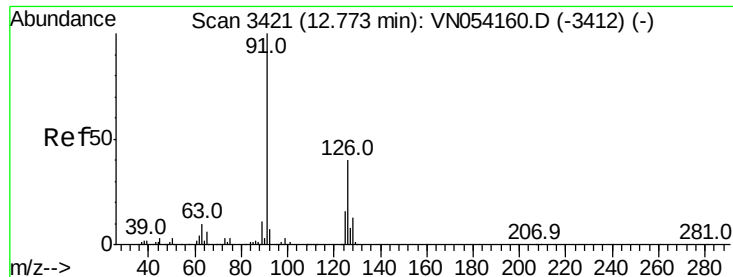
400

200

0

Time-->





#82

4-Chlorotoluene

Concen: 0.584 ug/l

RT: 12.77 min Scan# 3421

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion: 91 Resp: 24044

Ion Ratio Lower Upper

91 100

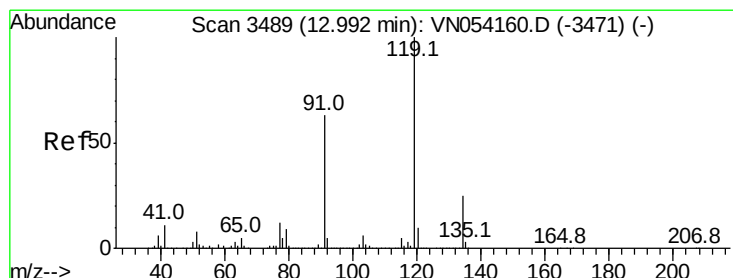
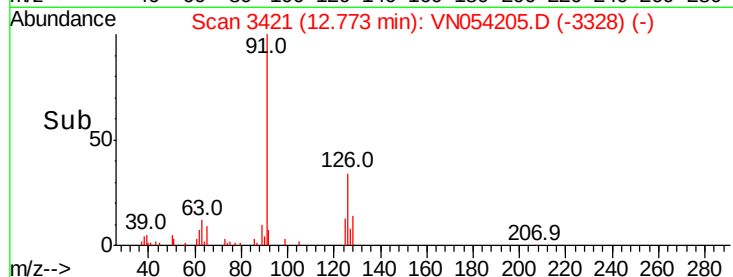
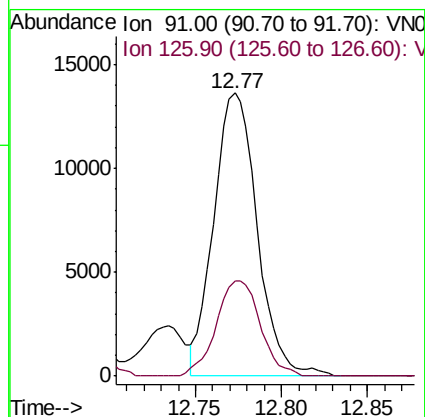
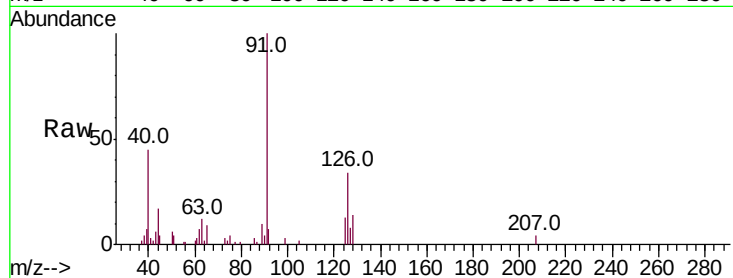
126 34.0 18.1 54.1

Manual Integrations

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#83

tert-Butylbenzene

Concen: 0.569 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

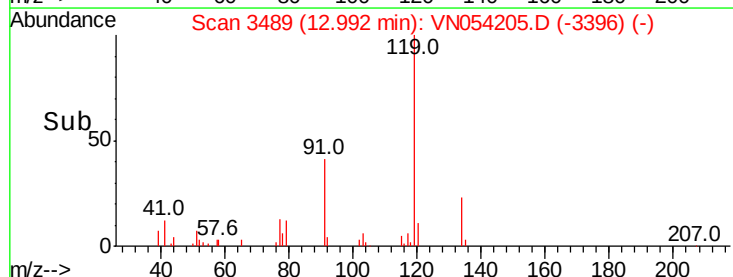
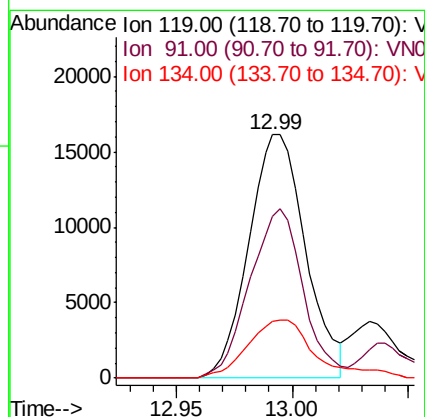
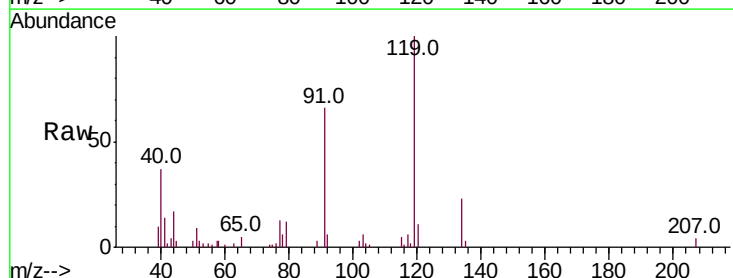
Tgt Ion: 119 Resp: 27523

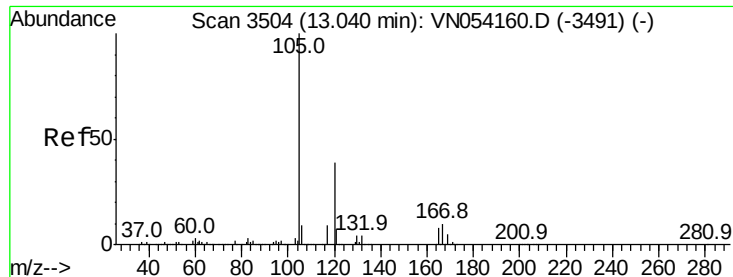
Ion Ratio Lower Upper

119 100

91 65.4 30.9 92.8

134 28.7 13.2 39.6





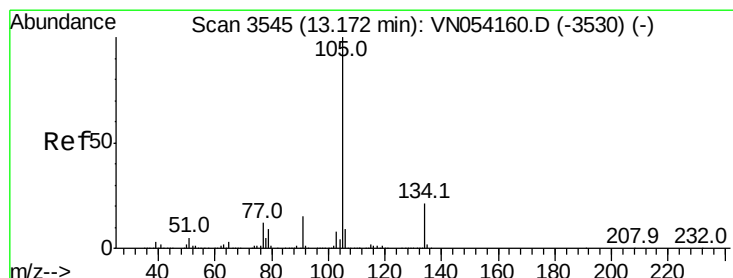
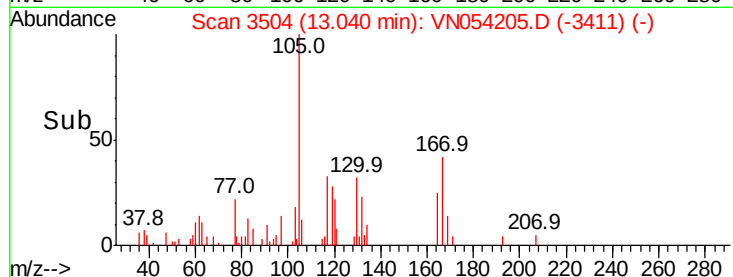
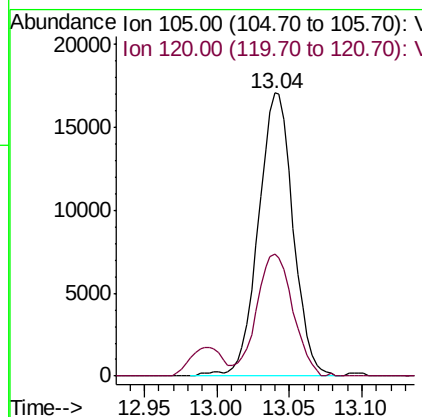
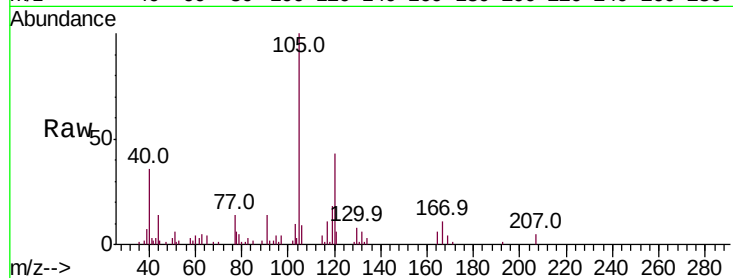
#84
 1,2,4-Trimethylbenzene
 Concen: 0.552 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN054205.D
 Acq: 13 Mar 2019 11:43

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

Tot Ion	Ratio	Lower	Upper
105	100		
120	45.1	23.4	70.3

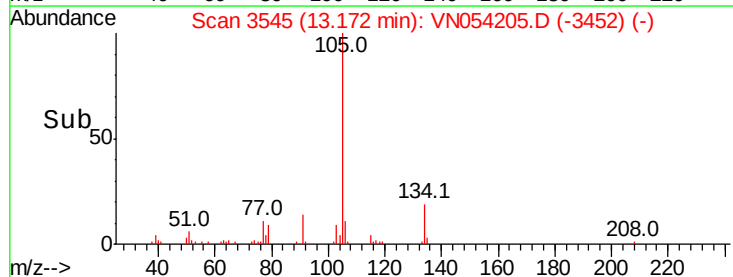
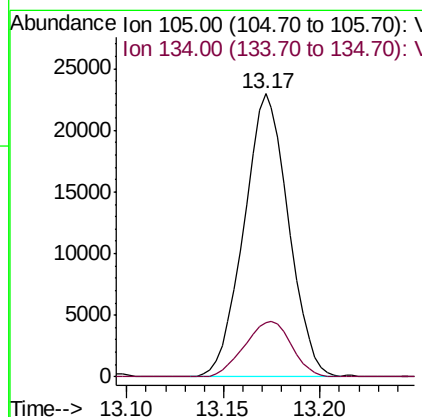
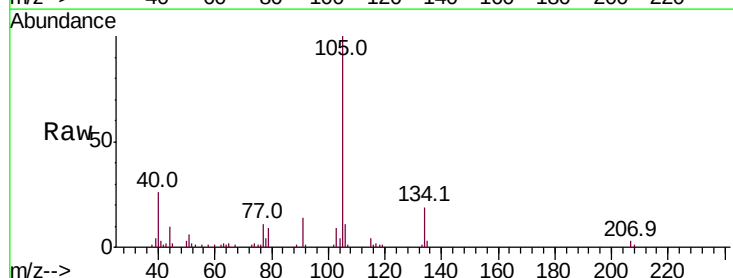
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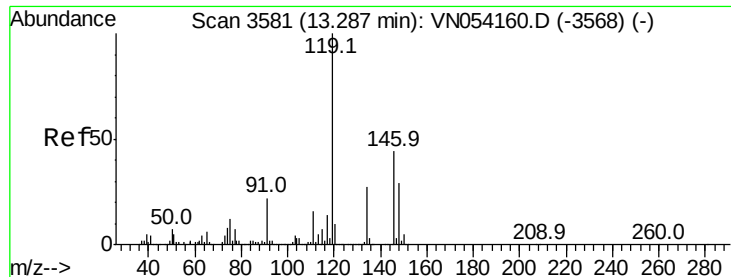
MMDadoda
 3/14/2019 10:27:04 AM



#85
 sec-Butylbenzene
 Concen: 0.586 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN054205.D
 Acq: 13 Mar 2019 11:43

Tgt Ion	Ratio	Lower	Upper
105	100		
134	20.8	10.7	32.1





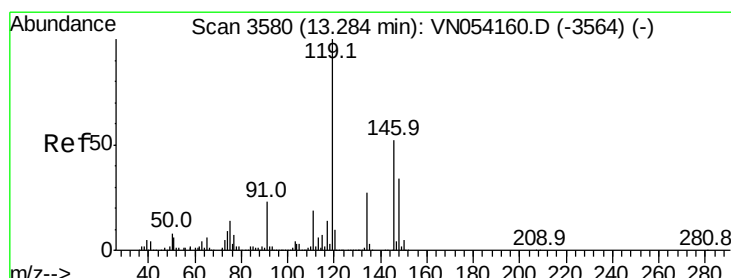
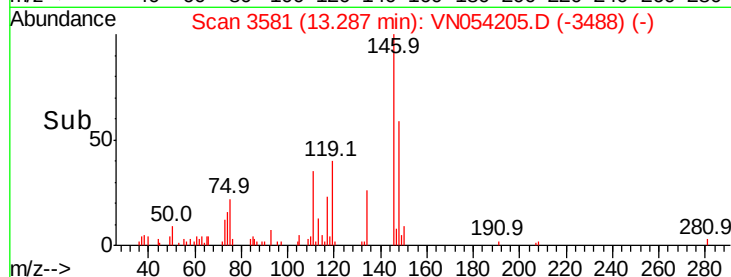
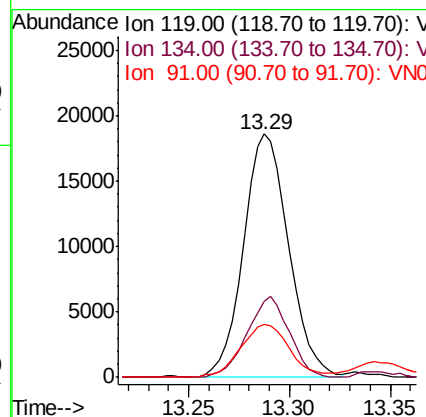
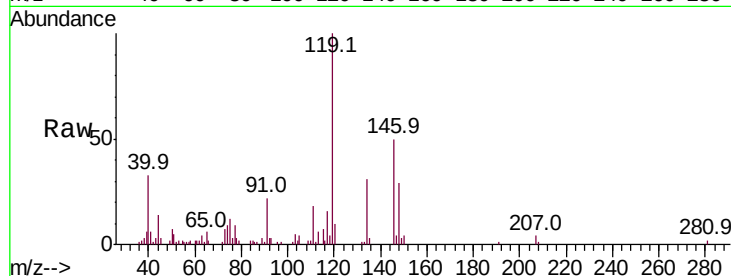
#86
 p-Isopropyltoluene
 Concen: 0.530 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN054205.D
 Acq: 13 Mar 2019 11:43

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

Tot Ion	Ratio	Lower	Upper
119	100		
134	31.0	13.6	40.8
91	23.6	11.1	33.3

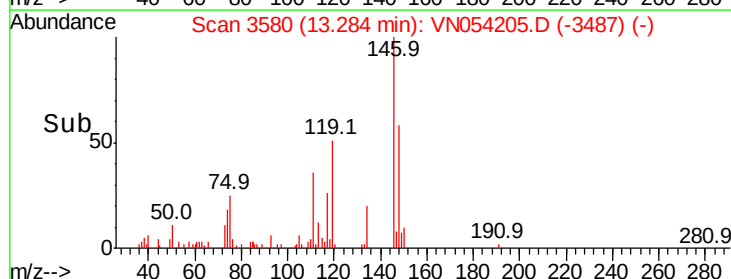
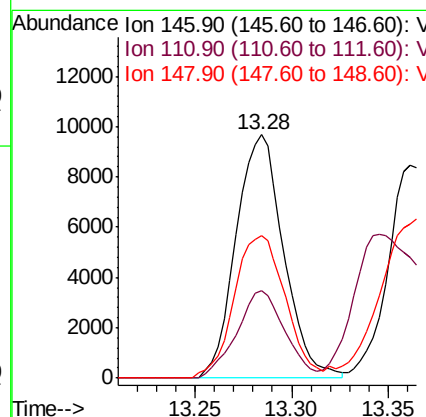
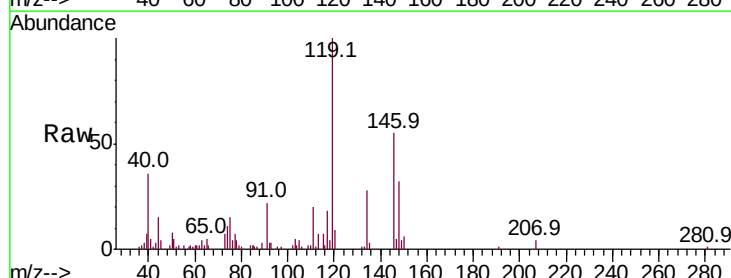
Manual Integrations
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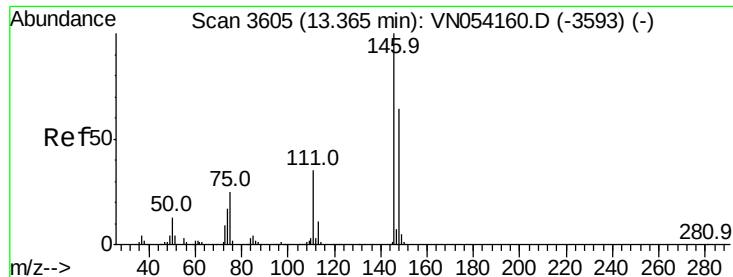
MMDadoda
 3/14/2019 10:27:04 AM



#87
 1,3-Dichlorobenzene
 Concen: 0.588 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN054205.D
 Acq: 13 Mar 2019 11:43

Tgt Ion	Ratio	Lower	Upper
146	100		
111	36.1	18.8	56.3
148	62.7	32.2	96.6





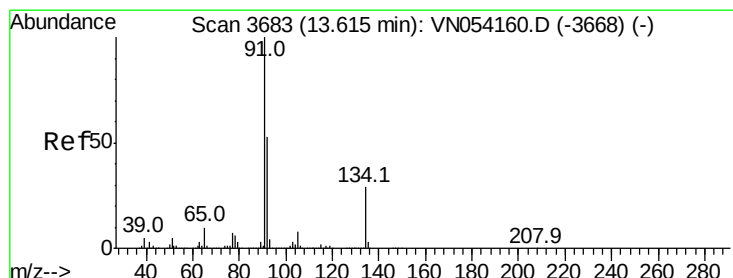
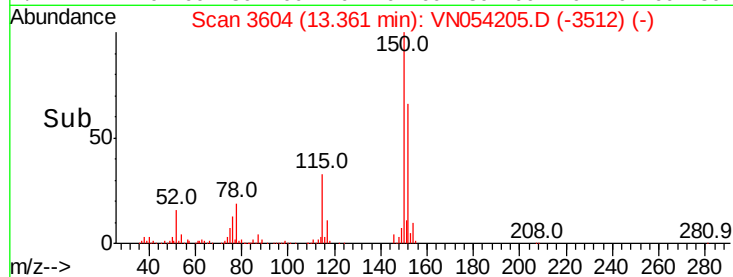
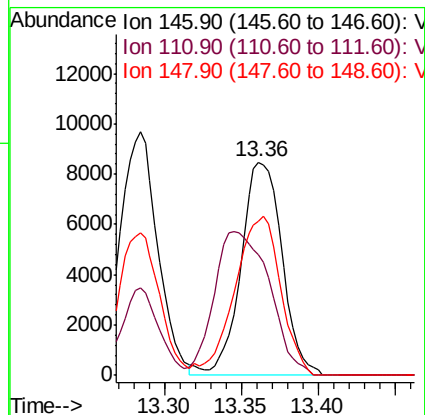
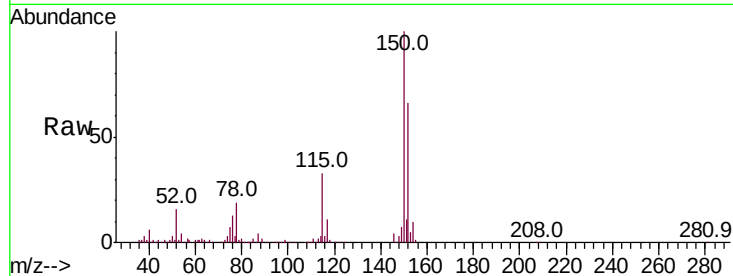
#88
1,4-Dichlorobenzene
Concen: 0.572 ug/l m
RT: 13.36 min Scan# 3604
Delta R.T. -0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.8	18.1	54.1
148	65.7	32.0	96.0

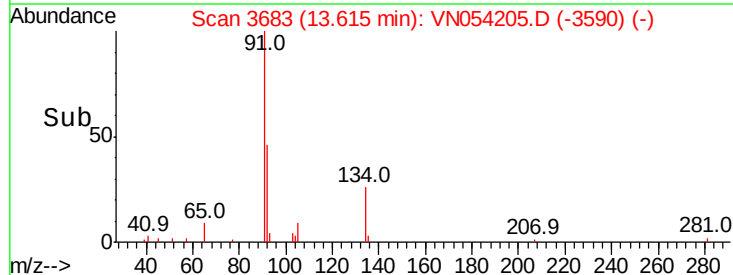
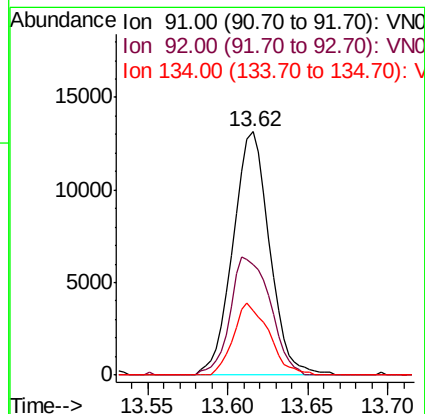
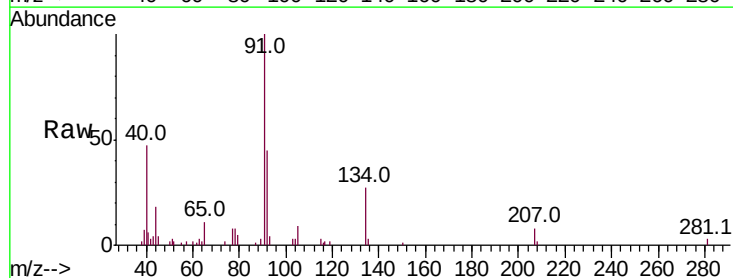
Manual Integrations
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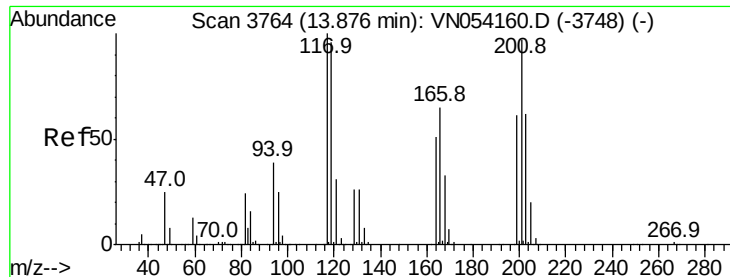
MMDadoda
3/14/2019 10:27:04 AM



#89
n-Butylbenzene
Concen: 0.489 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN054205.D
Acq: 13 Mar 2019 11:43

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.9	26.2	78.6
134	28.8	14.3	42.9





#90

Hexachloroethane

Concen: 0.475 ug/l

RT: 13.88 min Scan# 3764

Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT1-2019

Tot Ion:117 Resp: 4331

Ion Ratio Lower Upper

117 100

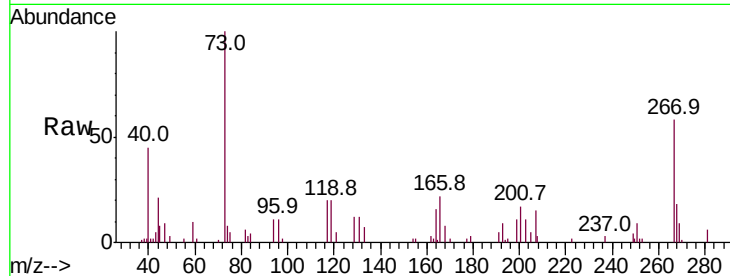
201 92.1 48.1 144.4

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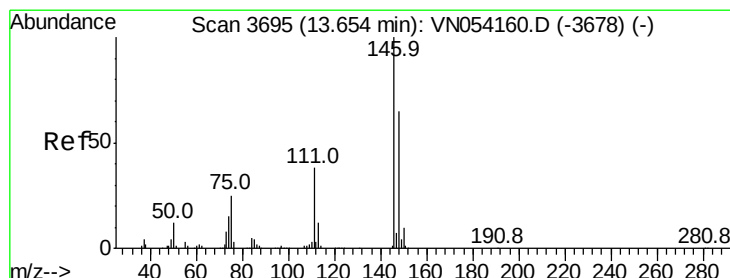
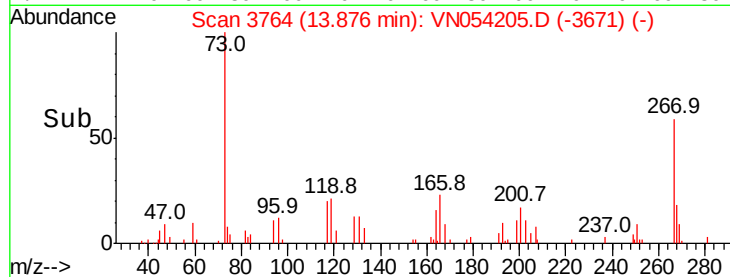
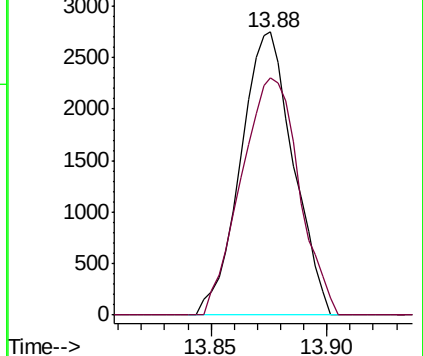
MMDadoda

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Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#91

1,2-Dichlorobenzene

Concen: 0.586 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. -0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

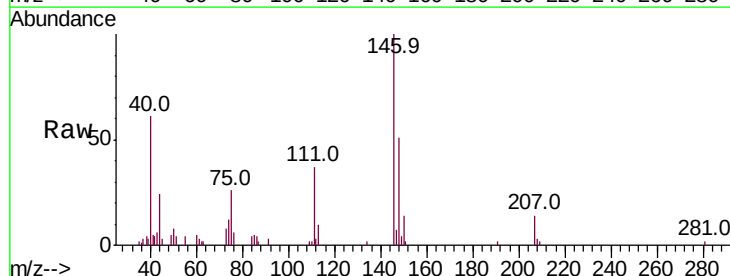
Tgt Ion:146 Resp: 16137

Ion Ratio Lower Upper

146 100

111 38.0 19.1 57.3

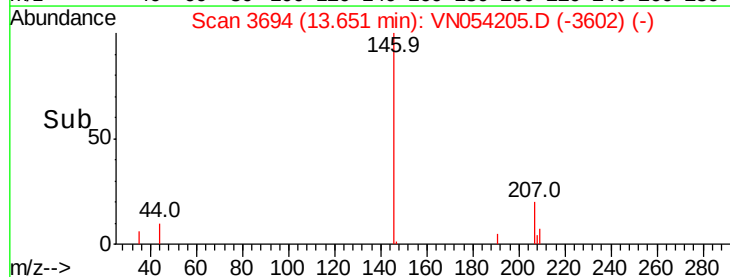
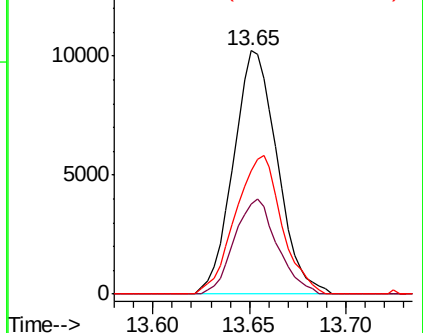
148 60.2 32.4 97.0

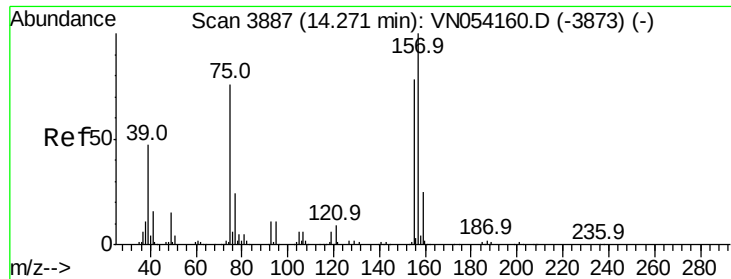


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V





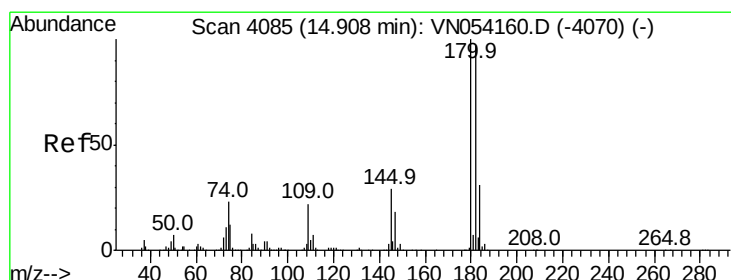
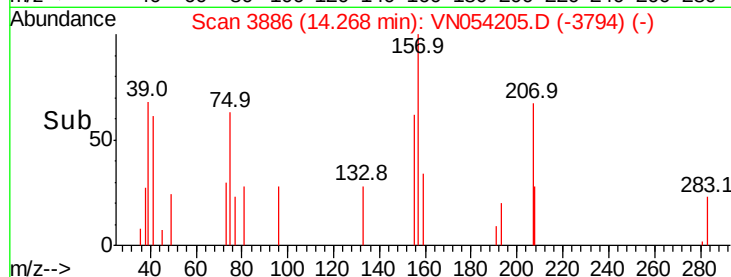
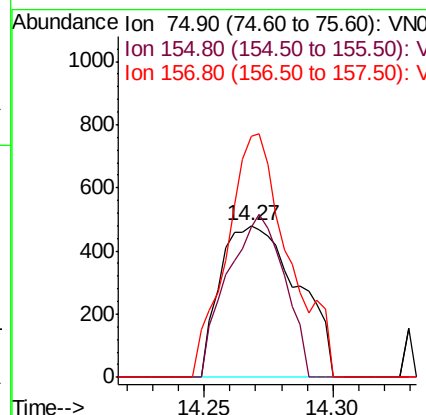
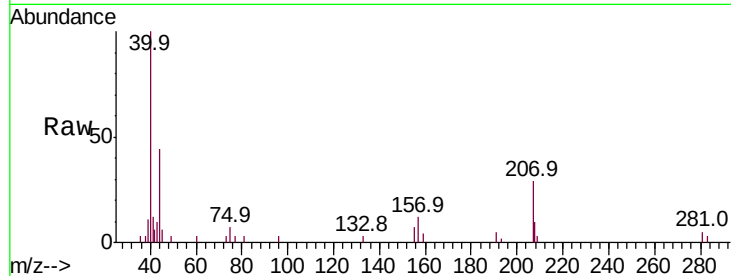
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.481 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN054205.D
 Acq: 13 Mar 2019 11:43

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

Tot Ion: 75 Resp: 1002
 Ion Ratio Lower Upper
 75 100
 155 78.6 50.1 150.3
 157 128.1 63.1 189.3

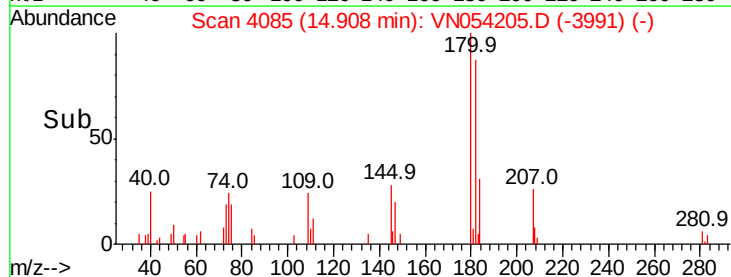
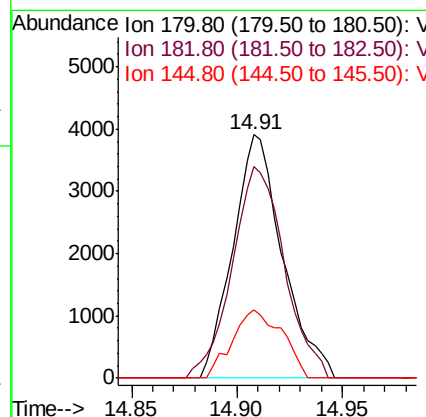
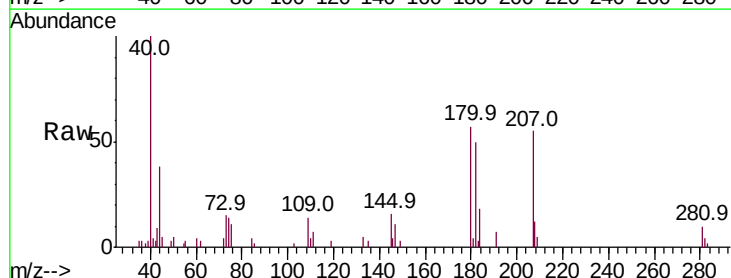
Manual Integrations
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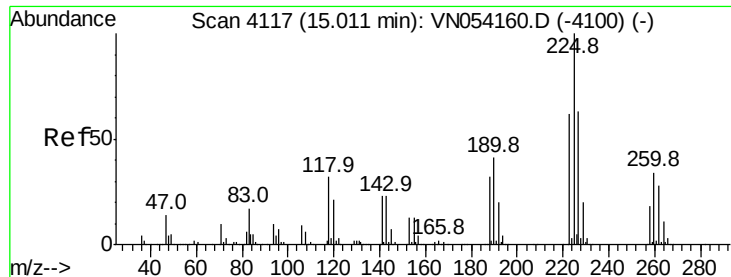
MMDadoda
 3/14/2019 10:27:04 AM



#93
 1,2,4-Trichlorobenzene
 Concen: 2.881 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054205.D
 Acq: 13 Mar 2019 11:43

Tgt Ion: 180 Resp: 6385
 Ion Ratio Lower Upper
 180 100
 182 91.3 48.0 144.2
 145 28.0 14.2 42.8





#94

Hexachlorobutadiene

Concen: 0.650 ug/l

RT: 15.01 min Scan# 4117

Delta R.T. 0.00 min

Lab File: VN054205.D

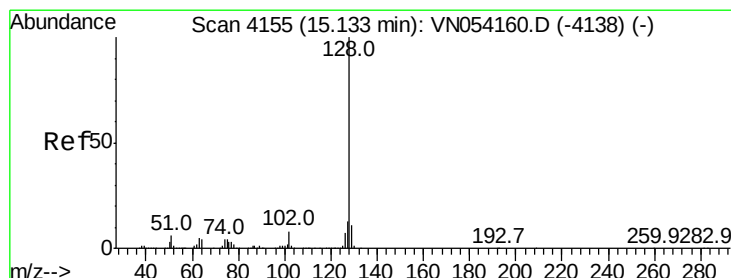
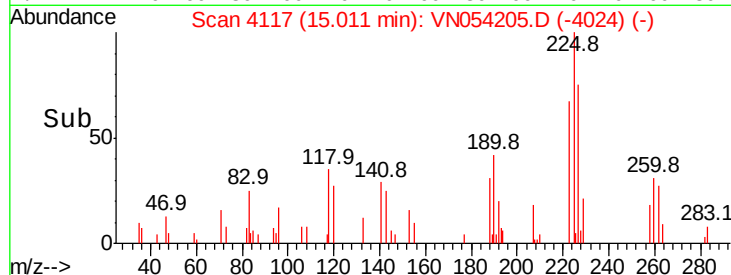
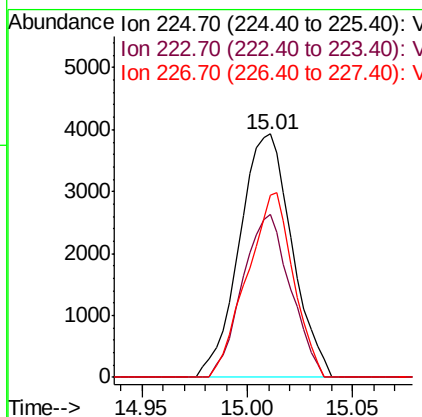
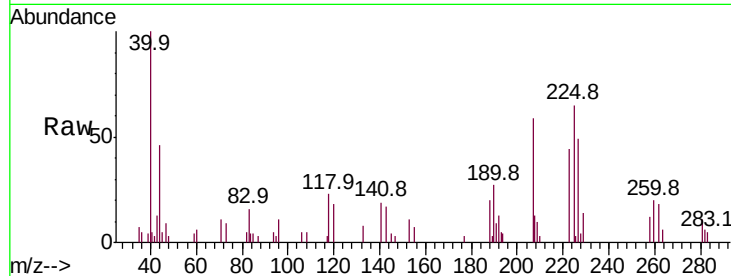
Acq: 13 Mar 2019 11:43

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

Tot Ion:	225	Resp:	6812
Ion Ratio	Lower	Upper	
225	100		
223	61.1	31.1	93.5
227	66.6	31.9	95.9

Manual Integrations
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#95

Naphthalene

Concen: 3.834 ug/l

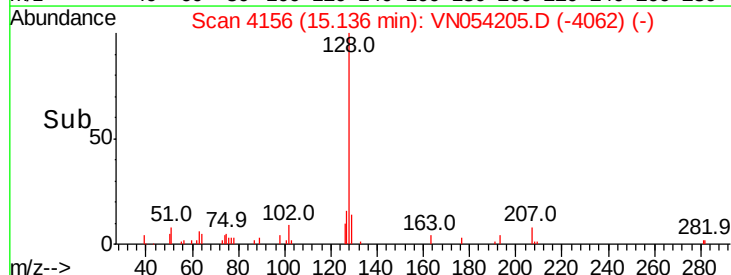
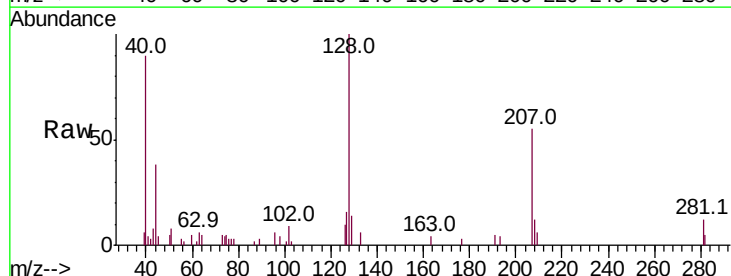
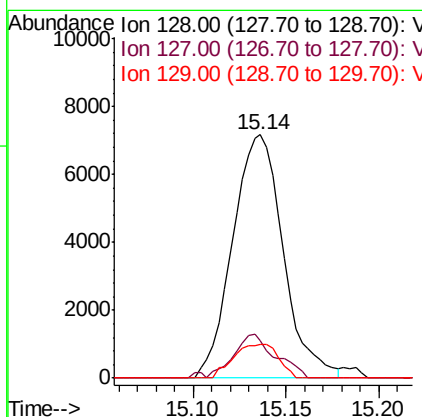
RT: 15.14 min Scan# 4156

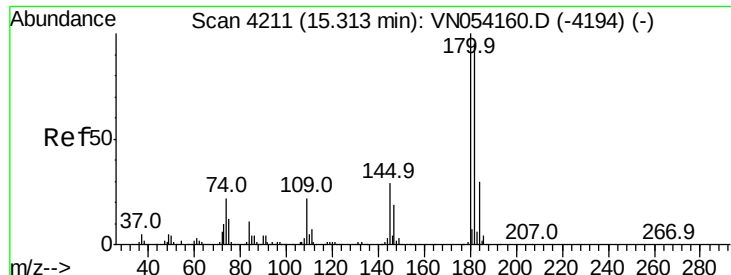
Delta R.T. 0.00 min

Lab File: VN054205.D

Acq: 13 Mar 2019 11:43

Tgt Ion:	128	Resp:	13558
Ion Ratio	Lower	Upper	
128	100		
127	15.0	10.1	15.1
129	12.3	8.7	13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.467 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN054205.D
 Acq: 13 Mar 2019 11:43

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	101.4	47.5	142.6
145	33.3	14.8	44.3

Manual Integrations
 APPROVED

MMDadoda
 3/14/2019 10:27:04 AM

