

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041219\
 Data File : VN054993.D
 Acq On : 12 Apr 2019 12:09
 Operator : JC/SP
 Sample : K2241-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 5 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

MMDadoda
 4/17/2019 9:35:41 AM

Quant Time: Apr 12 23:20:23 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N041119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Apr 12 07:55:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	69216	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	372739	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	308540	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	160863	30.49	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	101.63%
60) 4-Bromofluorobenzene	12.40	95	128011	26.65	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	88.83%
63) Toluene-d8	10.09	98	458740	31.27	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	104.23%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	11015	2.706 ug/l	94
3) Chloromethane	2.06	50	15968	2.904 ug/l	95
4) Vinyl Chloride	2.19	62	12917	2.716 ug/l	99
5) Bromomethane	2.56	94	8600	3.126 ug/l	97
6) Chloroethane	2.71	64	6863	2.577 ug/l	92
7) Trichlorofluoromethane	3.02	101	16666	2.743 ug/l	90
8) Diethyl Ether	3.41	74	6216	3.186 ug/l	94
9) 1,1,2-Trichlorotrifluoroet	3.75	101	9013	2.713 ug/l	87
10) 1,1-Dichloroethene	3.73	96	8327	2.711 ug/l	88
11) Methyl Iodide	3.94	142	11589	2.493 ug/l	97
12) Methyl Acetate	4.33	43	12178m	3.224 ug/l	
13) Acrolein	3.61	56	5037	15.214 ug/l	87
14) Acrylonitrile	5.00	53	20411	13.188 ug/l #	86
15) Acetone	3.82	58	5059	13.210 ug/l	83
16) Carbon Disulfide	4.04	76	26320	2.555 ug/l	98
17) Allyl chloride	4.31	41	19636	2.596 ug/l	95
18) Methylene Chloride	4.55	84	14028	3.090 ug/l	98
19) trans-1,2-Dichloroethene	5.03	96	11054	2.765 ug/l	89
20) Diisopropyl ether	5.95	45	39226	2.560 ug/l	92
21) 1,1-Dichloroethane	5.84	63	21951	2.682 ug/l	98
22) cis-1,2-Dichloroethene	6.83	96	12693	2.731 ug/l #	90
23) tert-Butyl Alcohol	4.82	59	3882m	15.731 ug/l	
24) Methyl tert-Butyl Ether	5.05	73	28050	2.720 ug/l #	90
25) Chloroform	7.37	83	20794	2.653 ug/l	94
26) Cyclohexane	7.65	56	19474	2.565 ug/l #	98
29) 1,1-Dichloropropene	7.79	75	14289	2.462 ug/l	94
30) 2-Butanone	6.85	43	25297	13.128 ug/l #	94
31) 2,2-Dichloropropane	6.82	77	13784m	2.580 ug/l	
32) 1,1,1-Trichloroethane	7.57	97	16726	2.726 ug/l	96
33) Carbon Tetrachloride	7.77	117	13227	2.490 ug/l	96
34) Benzene	8.04	78	44205	2.570 ug/l #	9
35) Methacrylonitrile	7.19	41	6581	2.898 ug/l	91
36) 1,2-Dichloroethane	8.13	62	17273	2.938 ug/l #	83
37) Trichloroethene	8.83	130	11876	2.708 ug/l	100
38) Methylcyclohexane	9.08	83	16919	2.513 ug/l	97
39) 1,2-Dichloropropane	9.12	63	13621	2.868 ug/l	94
40) Dibromomethane	9.21	93	7340	2.734 ug/l	96

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

41) Bromodichloromethane	9.40	83	14252	2.572	ug/l	96
42) Vinyl Acetate	5.90	43	120995	12.420	ug/l	100
43) Ethyl Acetate	6.94	43	11688	2.977	ug/l #	70
44) Isopropyl Acetate	8.17	43	17556	2.639	ug/l	94
45) 1,4-Dioxane	9.21	88	2326m	63.110	ug/l	
46) Methyl methacrylate	9.20	41	7645	2.221	ug/l	93
47) n-amyl Acetate	12.07	43	9548	1.949	ug/l	97
48) t-1,3-Dichloropropene	10.38	75	10984	2.159	ug/l #	87
49) cis-1,3-Dichloropropene	9.84	75	13852	2.205	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	10460	2.868	ug/l	89
51) Ethyl methacrylate	10.43	69	10947	2.518	ug/l	95
52) 1,3-Dichloropropane	10.71	76	17739	2.776	ug/l	99
53) Dibromochloromethane	10.90	129	8909	2.372	ug/l	97
54) 1,2-Dibromoethane	11.00	107	8496	2.482	ug/l	97
55) 2-Chloroethyl vinyl ether	9.70	63	20288	11.164	ug/l	99
56) Bromoform	12.12	173	4797	2.032	ug/l #	96
58) 4-Methyl-2-Pentanone	9.99	43	50534	14.202	ug/l	98
59) 2-Hexanone	10.75	43	31026	13.726	ug/l	99
61) Tetrachloroethene	10.63	164	11282	2.810	ug/l	97
62) Toluene	10.16	91	48668	2.863	ug/l	98
64) Chlorobenzene	11.43	112	28611	2.788	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	9624	2.637	ug/l	91
66) Ethyl Benzene	11.51	91	47937	2.630	ug/l	99
67) m/p-Xylenes	11.62	106	33890	5.003	ug/l	93
68) o-Xylene	11.95	106	17205	2.570	ug/l	100
69) Styrene	11.96	104	23945	2.304	ug/l	98
70) Isopropylbenzene	12.25	105	43994	2.458	ug/l	97
71) 1,1,2,2-Tetrachloroethane	12.50	83	12086	2.952	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	10368m	3.067	ug/l	
73) Bromobenzene	12.53	156	10920	2.581	ug/l	96
74) n-propylbenzene	12.59	91	44272	2.210	ug/l	99
75) 2-Chlorotoluene	12.67	91	29808	2.467	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	34649	2.395	ug/l	98
77) t-1,4-Dichloro-2-butene	12.31	75	1843	2.163	ug/l	95
78) 4-Chlorotoluene	12.77	91	24764	2.151	ug/l	97
79) tert-butylbenzene	12.99	119	31466	2.513	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	31155	2.192	ug/l	98
81) sec-Butylbenzene	13.17	105	38006	2.272	ug/l	99
82) p-Isopropyltoluene	13.29	119	30412	2.154	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	15130	2.138	ug/l	96
84) 1,4-Dichlorobenzene	13.36	146	12798	1.903	ug/l	96
85) n-Butylbenzene	13.61	91	20045	1.782	ug/l	98
86) Hexachloroethane	13.87	117	4977	2.202	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	15237	2.198	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	1123m	2.064	ug/l	
89) 1,2,4-Trichlorobenzene	14.91	180	4408	1.423	ug/l	99
90) Hexachlorobutadiene	15.01	225	5746	2.543	ug/l	96
91) Naphthalene	15.13	128	10326	1.591	ug/l	98
92) 1,2,3-Trichlorobenzene	15.31	180	5642	1.821	ug/l	92

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MDL-MDL-WATER-03-QT2-2019

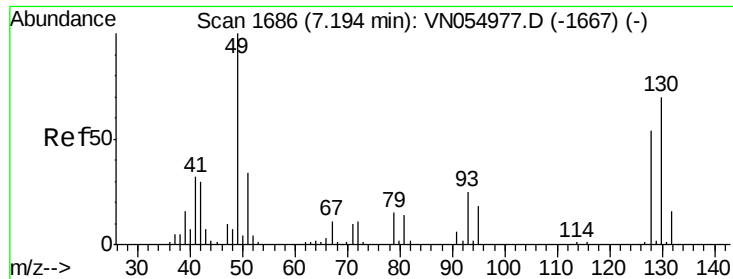
Manual Integrations
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QLast Update : Fri Apr 12 07:55:25 2019
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



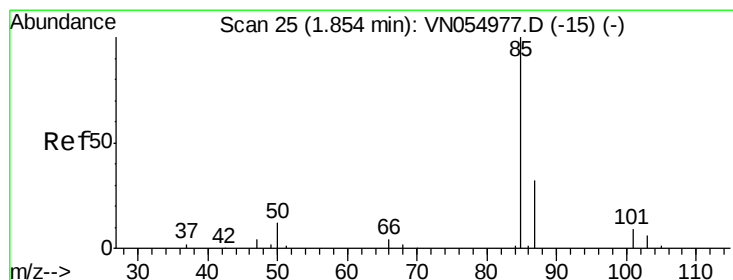
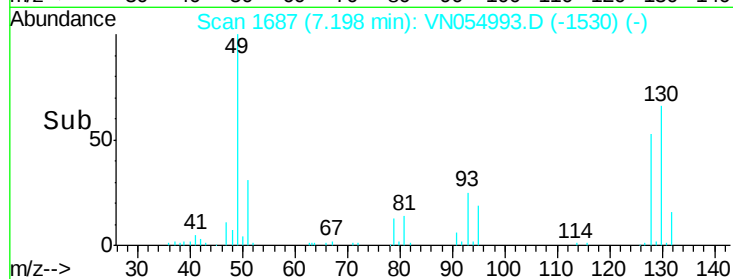
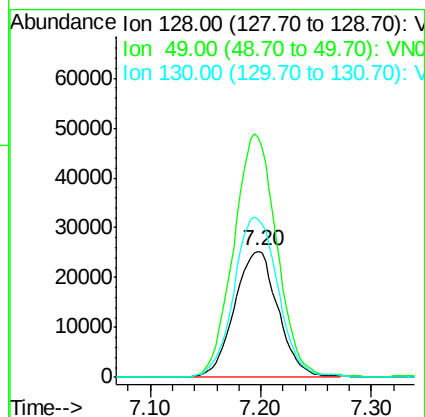
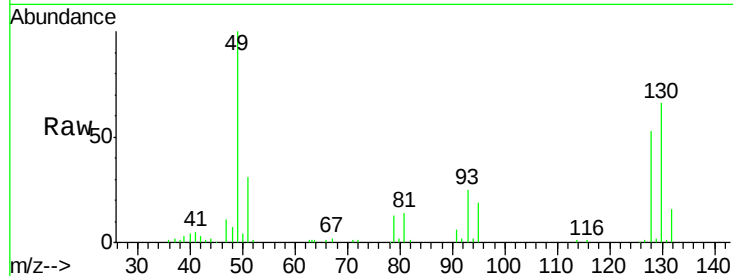
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

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

Tot Ion	Ratio	Lower	Upper
128	100		
49	190.9	0.0	480.3
130	128.9	0.0	322.2

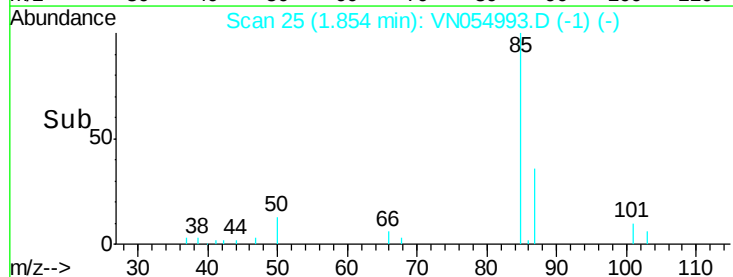
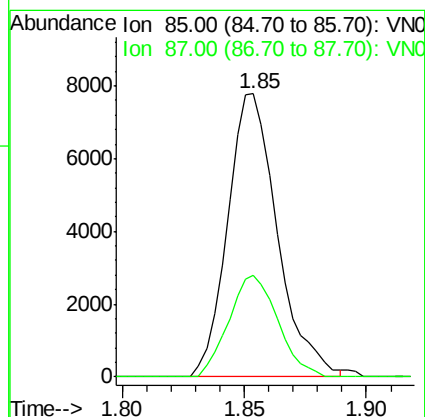
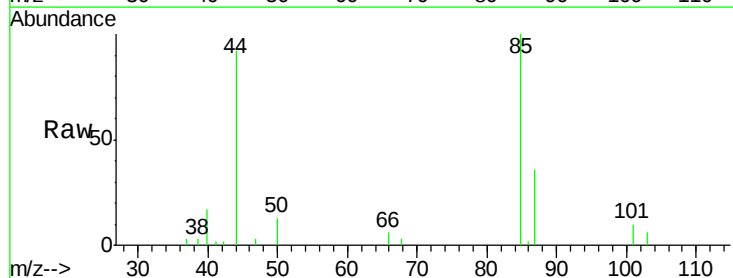
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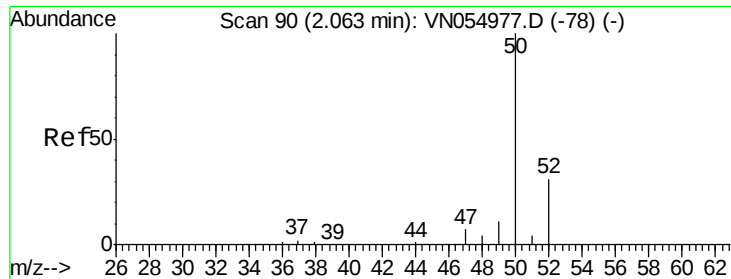
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#2
Dichlorodifluoromethane
Concen: 2.706 ug/l
RT: 1.85 min Scan# 25
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

Tgt Ion	Ratio	Lower	Upper
85	100		
87	35.8	16.1	48.3





#3

Chloromethane

Concen: 2.904 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 50 Resp: 15968

Ion Ratio Lower Upper

50 100

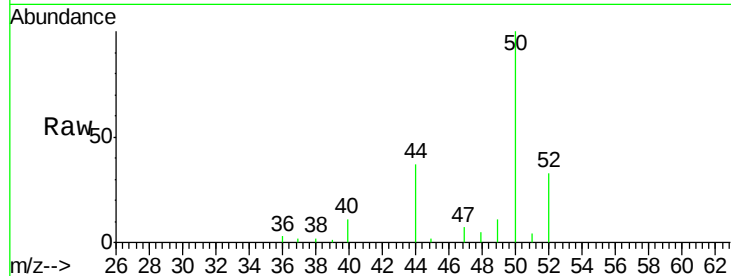
52 33.4 24.5 36.7

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Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

12000

10000

8000

6000

4000

2000

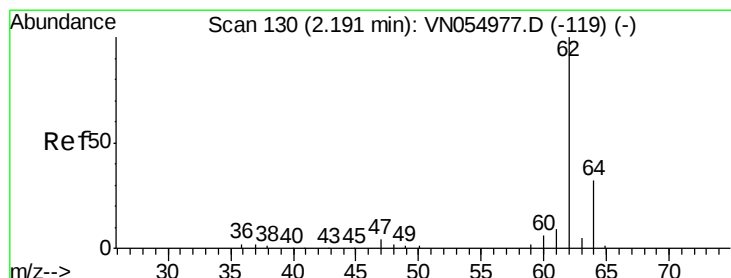
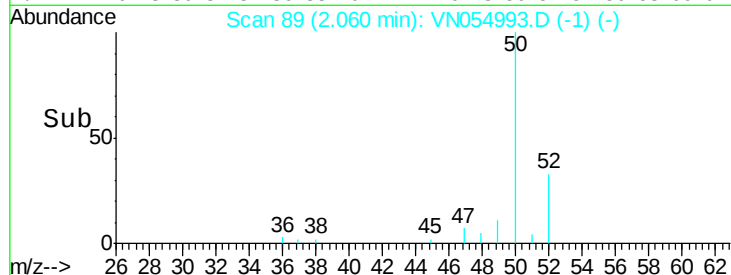
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Time-->

2.00

2.05

2.10



#4

Vinyl Chloride

Concen: 2.716 ug/l

RT: 2.19 min Scan# 129

Delta R.T. -0.00 min

Lab File: VN054993.D

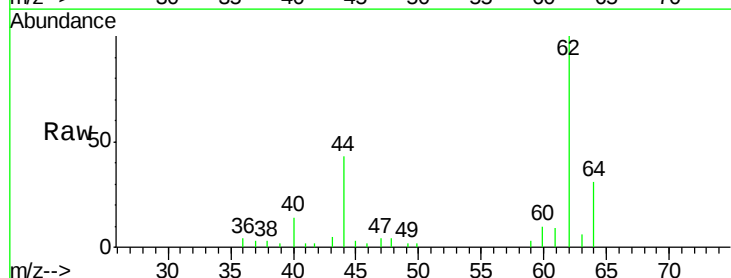
Acq: 12 Apr 2019 12:09

Tgt Ion: 62 Resp: 12917

Ion Ratio Lower Upper

62 100

64 31.2 25.6 38.4



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0

10000

8000

6000

4000

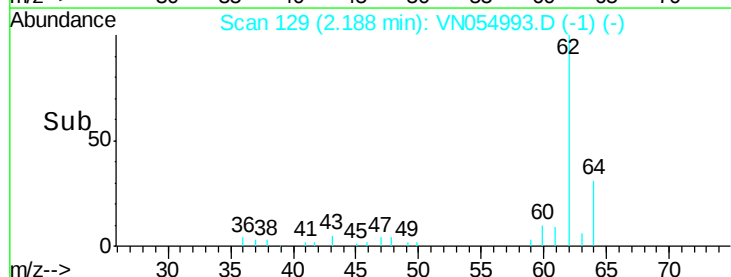
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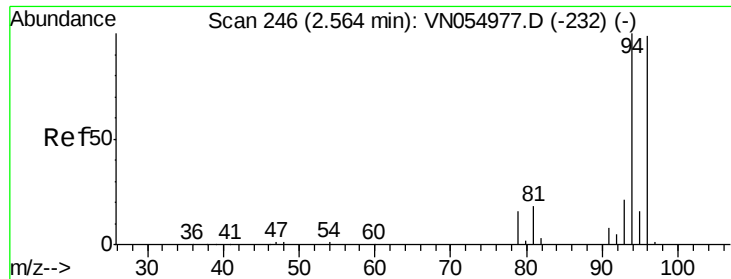
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Time-->

2.15

2.20





#5

Bromomethane

Concen: 3.126 ug/l

RT: 2.56 min Scan# 246

Delta R.T. 0.00 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Instrument :

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MDL-MDL-WATER-03-QT2-2019

Tot Ion: 94 Resp: 8600

Ion Ratio Lower Upper

94 100

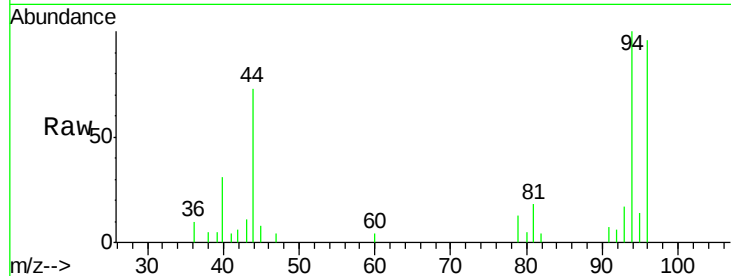
96 95.9 79.1 118.7

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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0

2.56

4000

3000

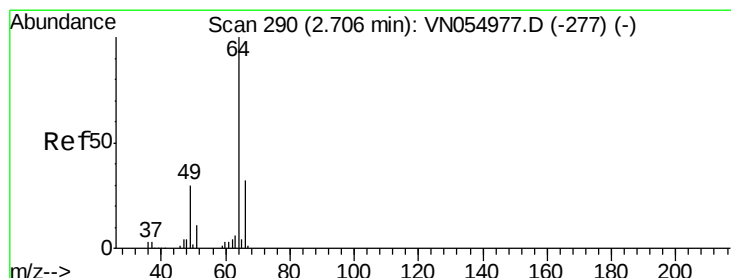
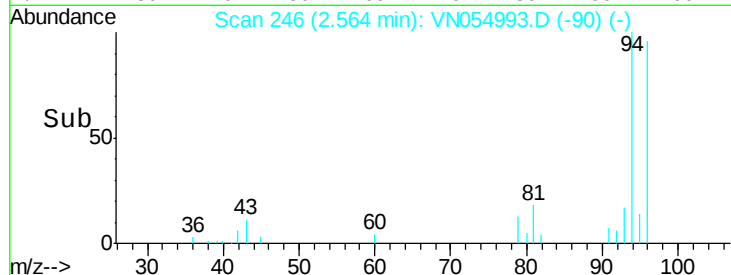
2000

1000

0

Time-->

2.50 2.55 2.60



#6

Chloroethane

Concen: 2.577 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.00 min

Lab File: VN054993.D

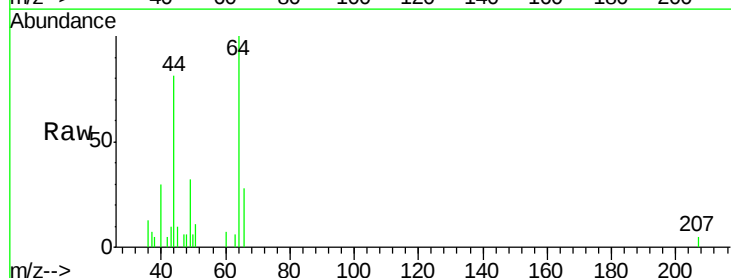
Acq: 12 Apr 2019 12:09

Tgt Ion: 64 Resp: 6863

Ion Ratio Lower Upper

64 100

66 27.5 25.7 38.5



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0

2.71

4000

3000

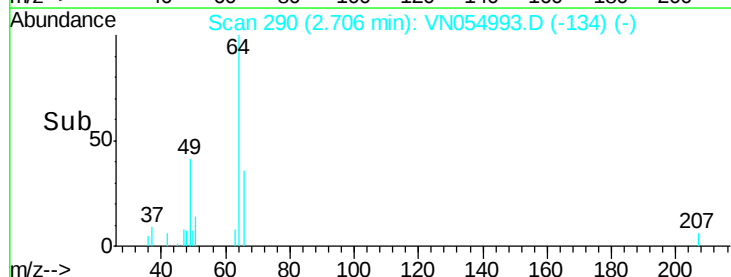
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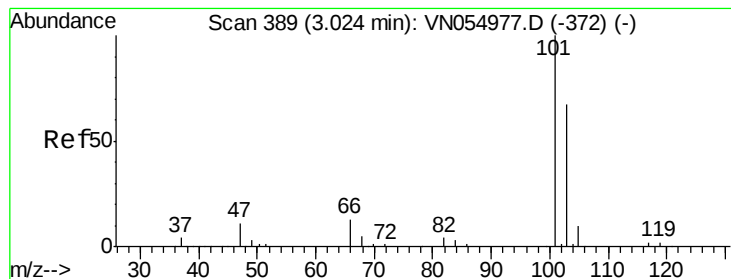
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Time-->

2.65 2.70 2.75





#7

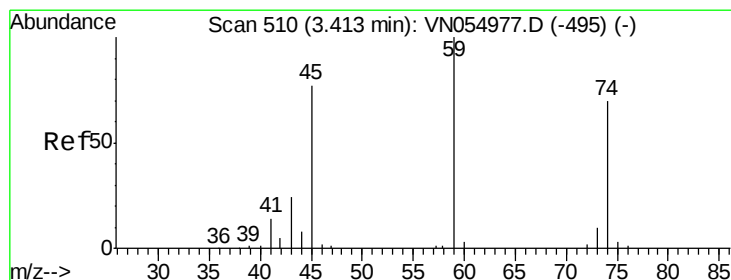
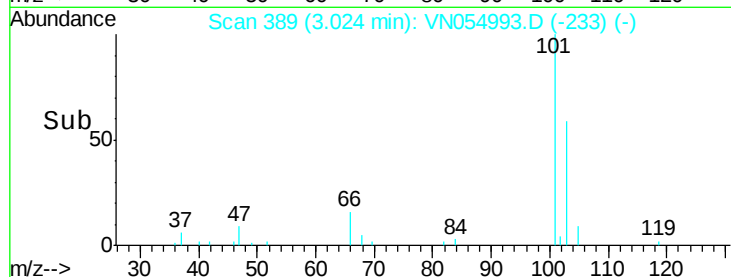
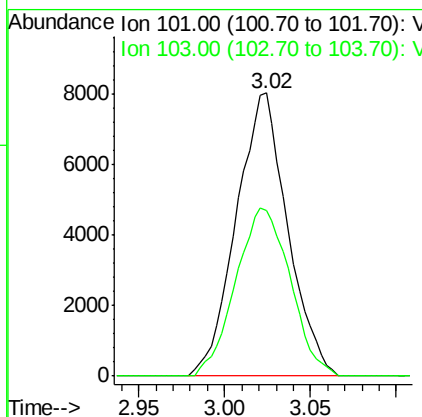
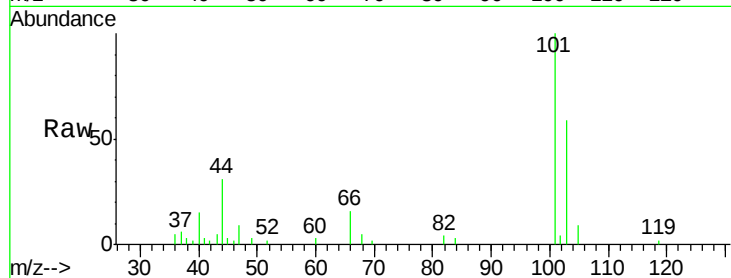
Trichlorofluoromethane
 Concen: 2.743 ug/l
 RT: 3.02 min Scan# 389
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

Instrument :
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Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		16666		
103	58.6	53.4	80.0		

Manual Integrations
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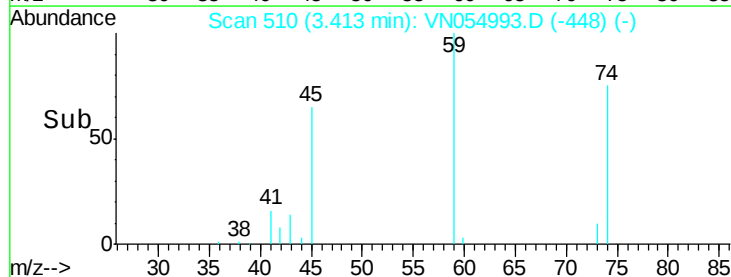
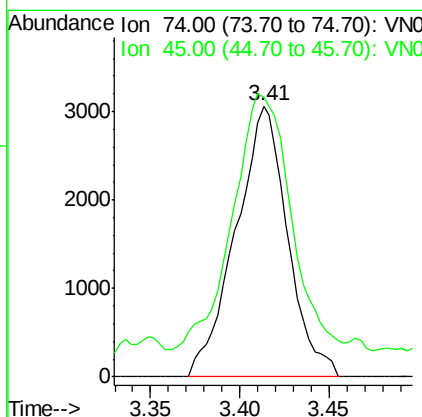
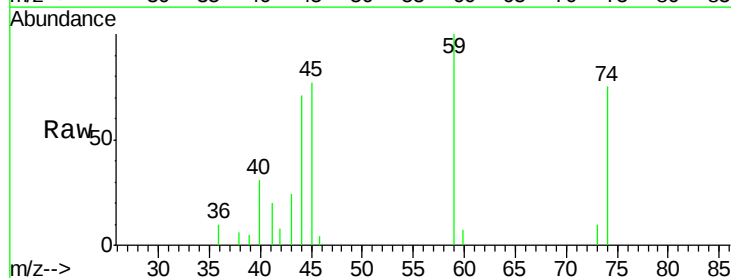
MMDadoda
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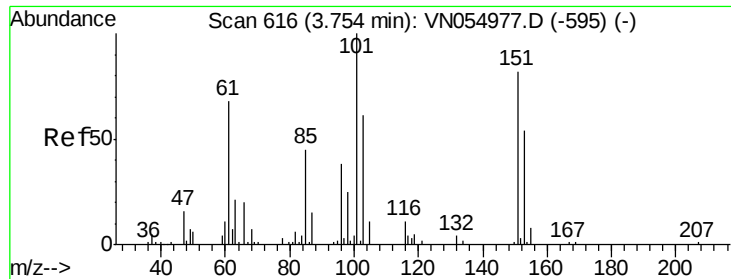


#8

Diethyl Ether
 Concen: 3.186 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		6216		
45	107.6	22.9	205.7		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.713 ug/l

RT: 3.75 min Scan# 614

Delta R.T. -0.01 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Instrument :

MSVOA_N

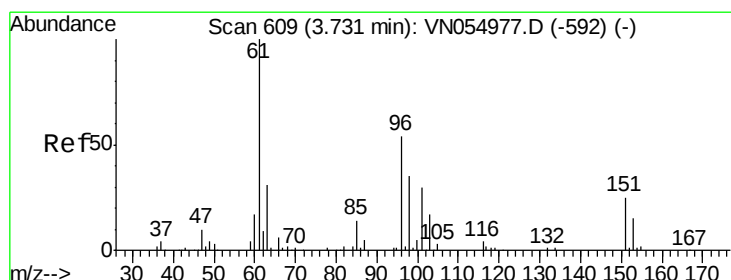
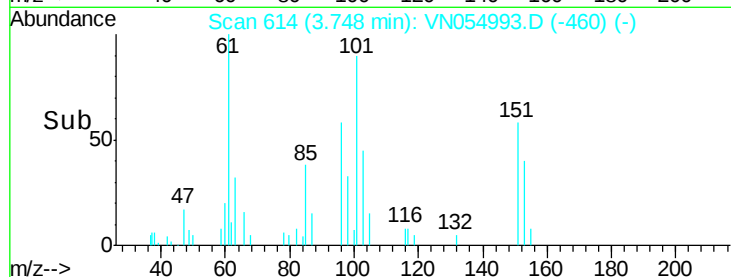
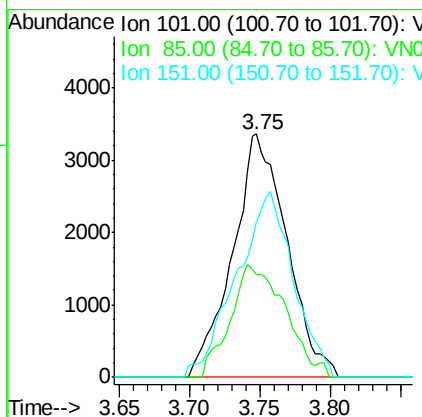
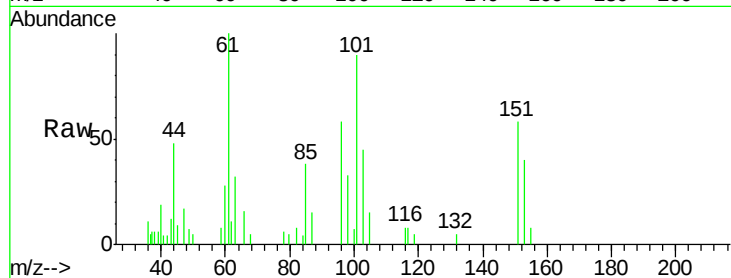
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	101	Resp:	9013
Ion Ratio	Lower	Upper	
101	100		
85	26.2	0.0	91.4
151	78.8	0.0	165.6

Manual Integrations
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4/17/2019 9:35:41 AM



#10

1,1-Dichloroethene

Concen: 2.711 ug/l

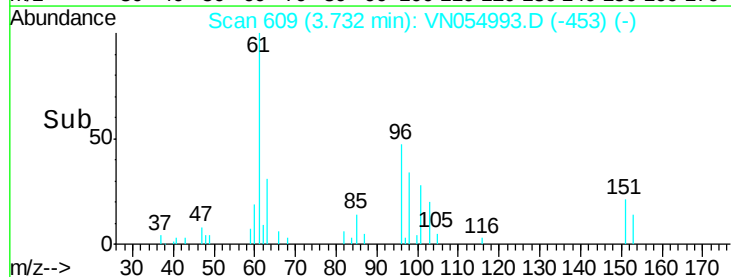
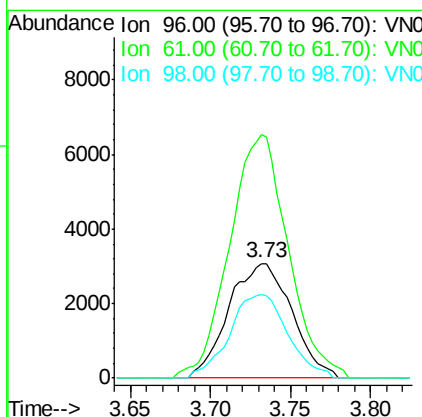
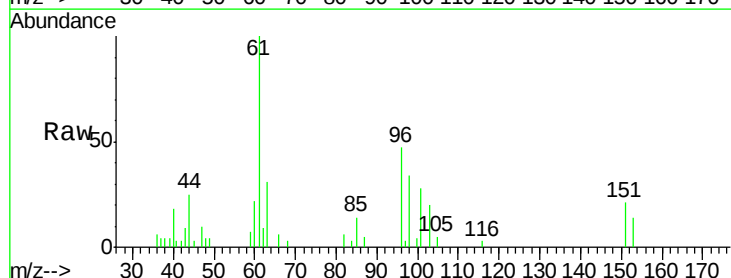
RT: 3.73 min Scan# 609

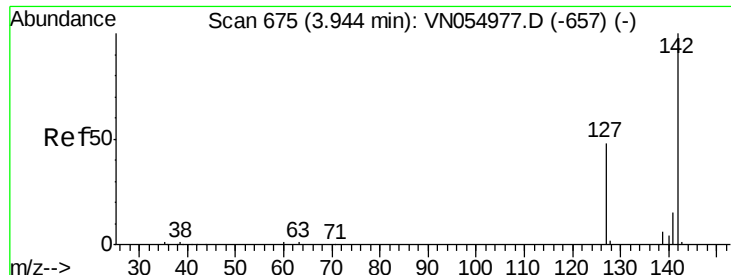
Delta R.T. 0.00 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Tgt Ion:	96	Resp:	8327
Ion Ratio	Lower	Upper	
96	100		
61	203.6	148.4	222.6
98	72.6	52.2	78.2





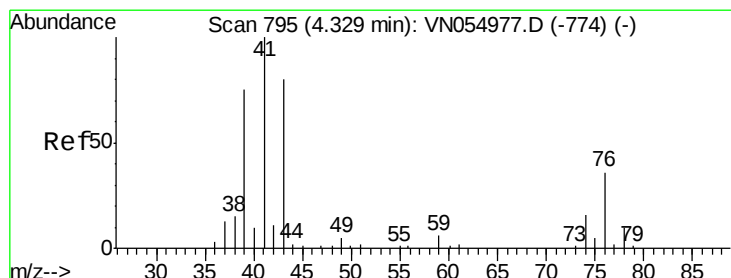
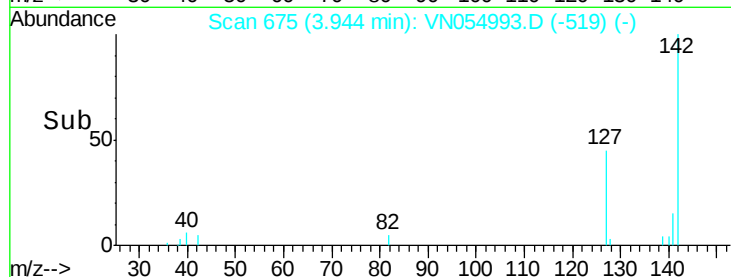
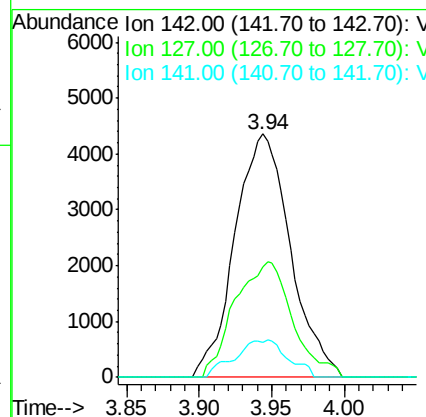
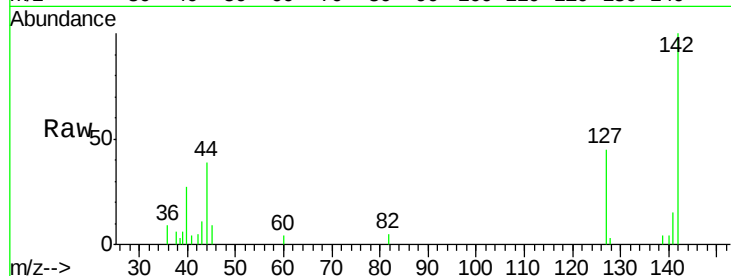
#11
Methvl Iodide
Concen: 2.493 ug/l
RT: 3.94 min Scan# 675
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

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

Tot Ion	Ratio	Lower	Upper
142	100		
127	45.2	23.8	71.5
141	14.6	7.3	22.0

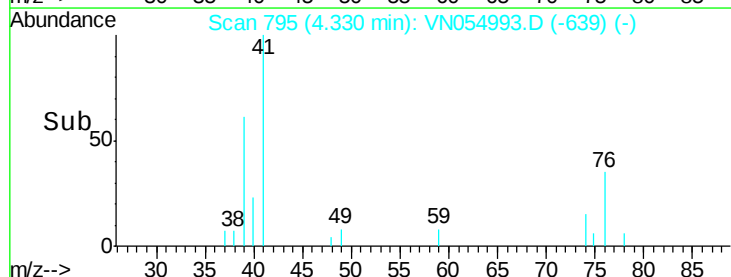
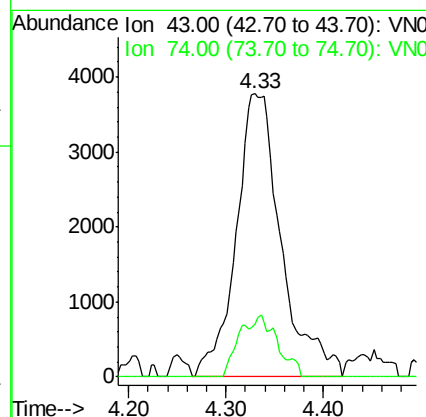
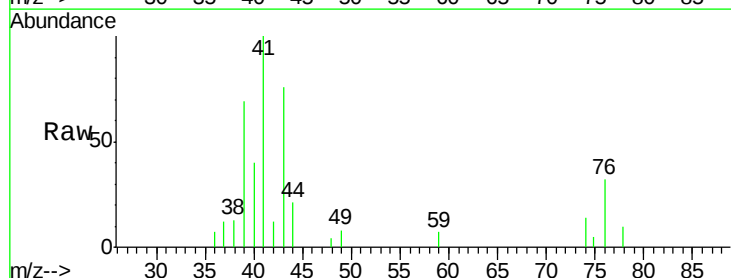
Manual Integrations
APPROVED

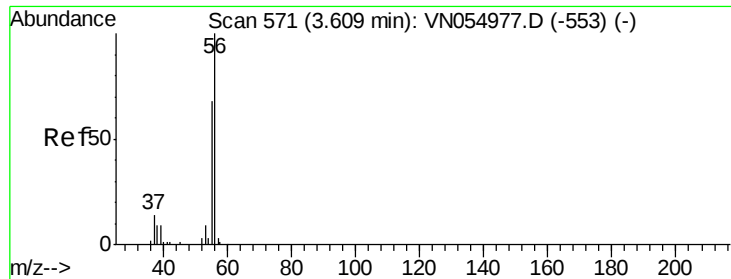
MMDadoda
4/17/2019 9:35:41 AM



#12
Methyl Acetate
Concen: 3.224 ug/l m
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

Tgt Ion	Ratio	Lower	Upper
43	100		
74	18.9	16.2	24.4





#13

Acrolein

Concen: 15.214 ug/l

RT: 3.61 min Scan# 570

Delta R.T. -0.00 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 56 Resp: 5037

Ion Ratio Lower Upper

56 100

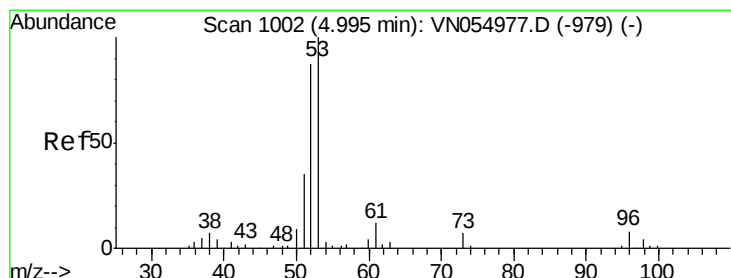
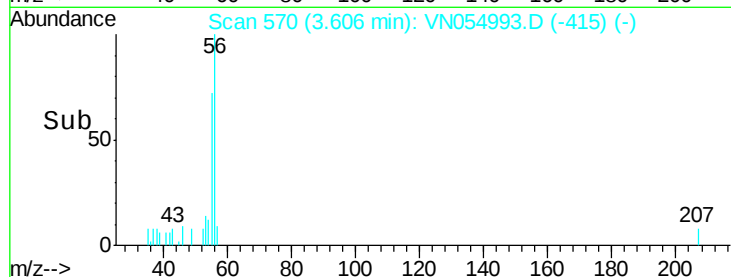
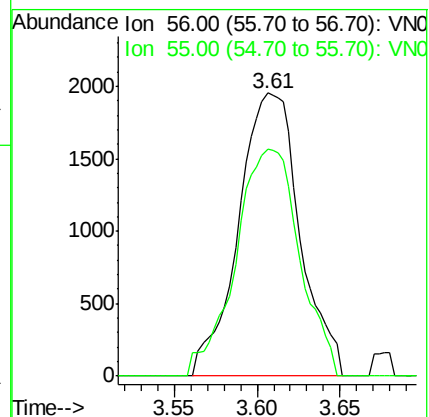
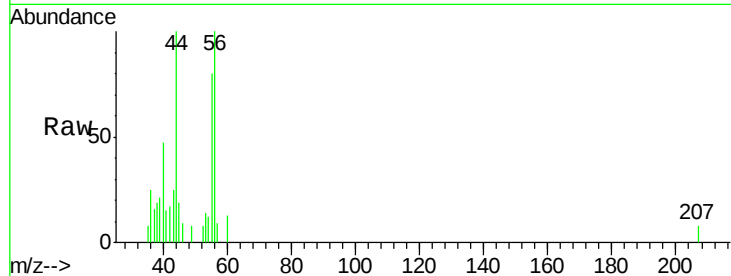
55 82.0 57.0 85.4

Manual Integrations

APPROVED

MMDadoda

4/17/2019 9:35:41 AM



#14

Acrylonitrile

Concen: 13.188 ug/l

RT: 5.00 min Scan# 1005

Delta R.T. 0.01 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

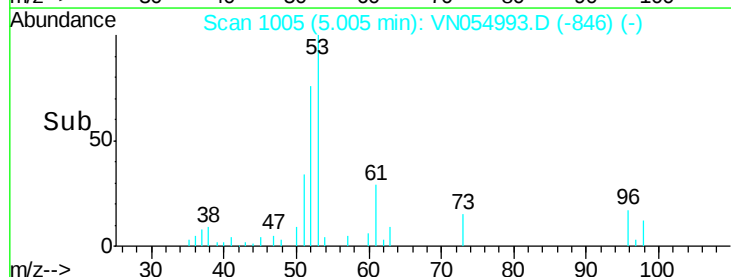
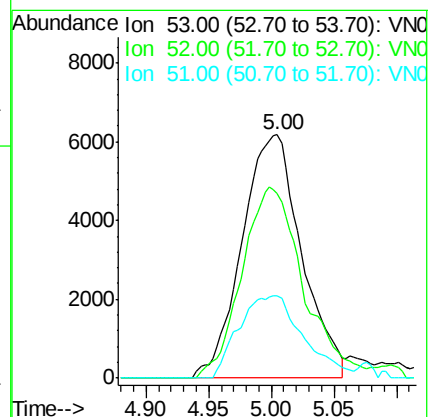
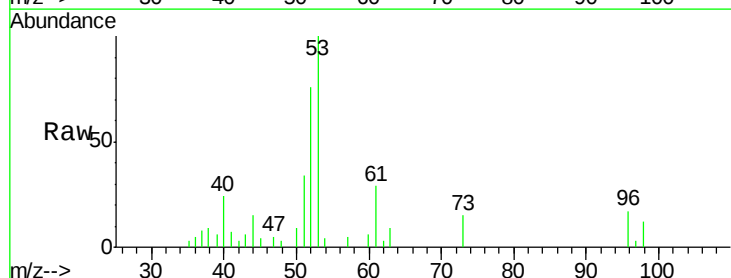
Tgt Ion: 53 Resp: 20411

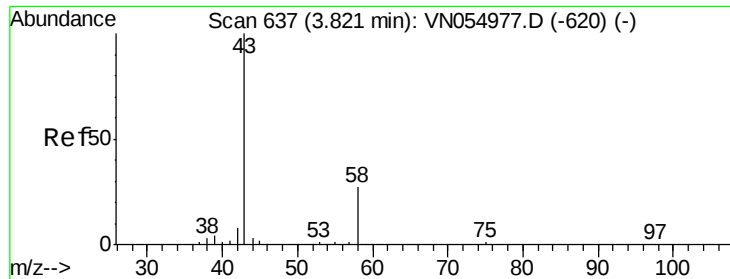
Ion Ratio Lower Upper

53 100

52 81.0 42.3 126.8

51 16.0 18.6 56.0#





#15

Acetone

Concen: 13.210 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 58 Resp: 5059

Ion Ratio Lower Upper

58 100

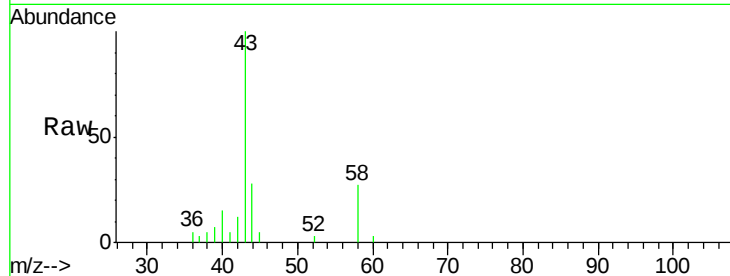
43 332.4 297.2 445.8

Manual Integrations

APPROVED

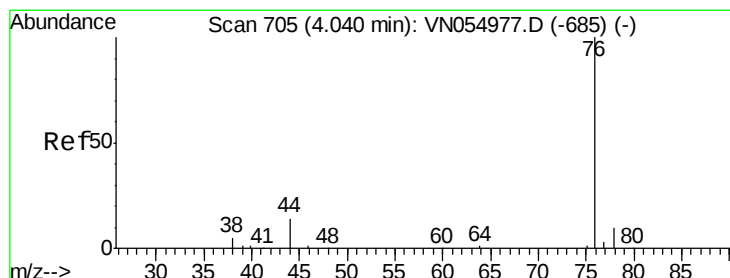
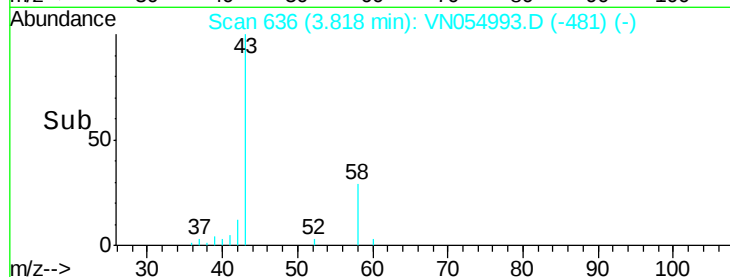
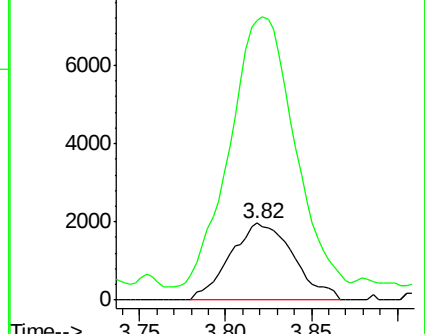
MMDadoda

4/17/2019 9:35:41 AM



Abundance Ion 58.00 (57.70 to 58.70): VN054993.D (-549) (-)

Ion 43.00 (42.70 to 43.70): VN054993.D (-549) (-)



#16

Carbon Disulfide

Concen: 2.555 ug/l

RT: 4.04 min Scan# 706

Delta R.T. 0.00 min

Lab File: VN054993.D

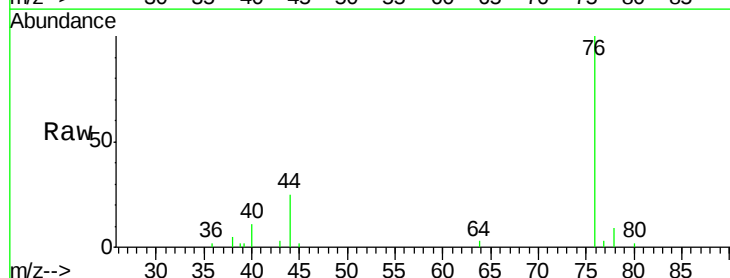
Acq: 12 Apr 2019 12:09

Tgt Ion: 76 Resp: 26320

Ion Ratio Lower Upper

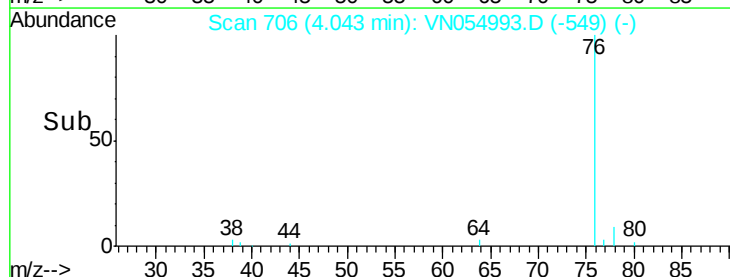
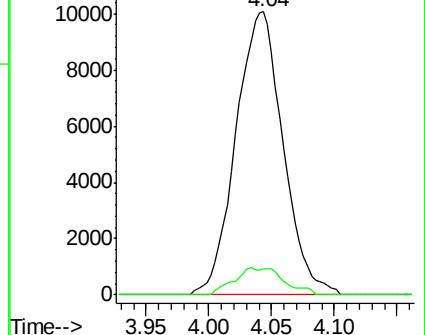
76 100

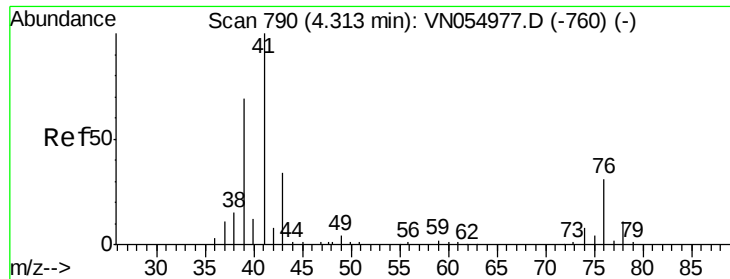
78 9.1 7.8 11.6



Abundance Ion 76.00 (75.70 to 76.70): VN054993.D (-549) (-)

Ion 78.00 (77.70 to 78.70): VN054993.D (-549) (-)





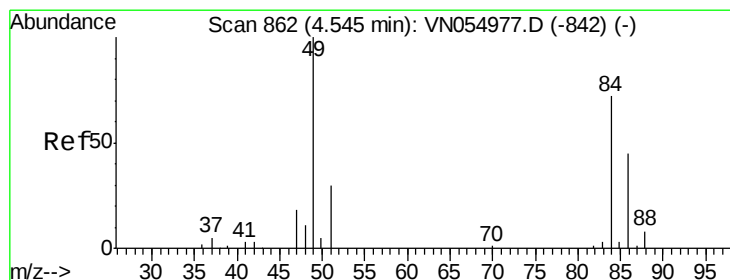
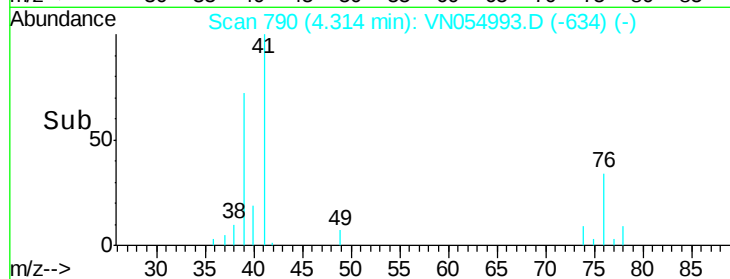
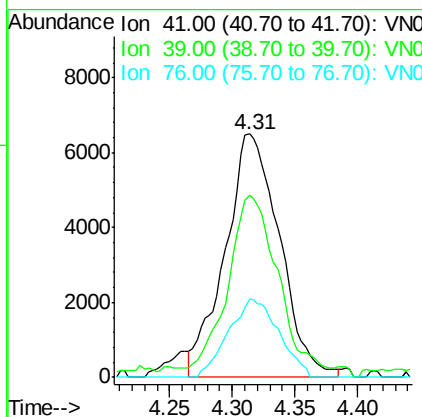
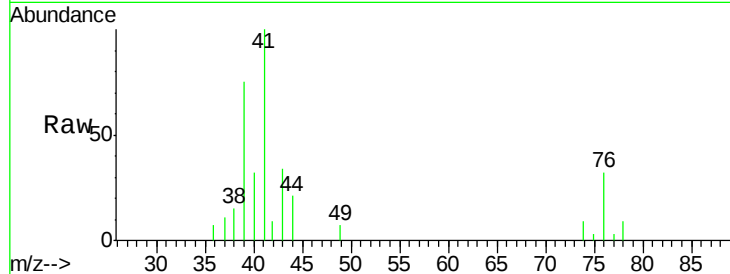
#17
Allvl chloride
Concen: 2.596 ug/l
RT: 4.31 min Scan# 790
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

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

Tot Ion	Ratio	Lower	Upper
41	100		
39	73.3	34.3	102.9
76	33.3	15.8	47.3

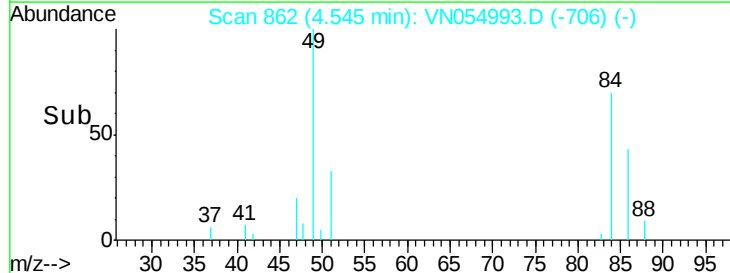
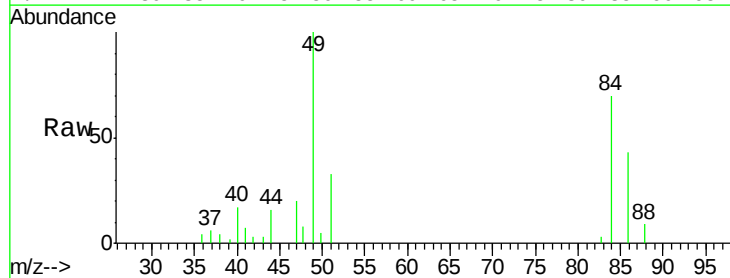
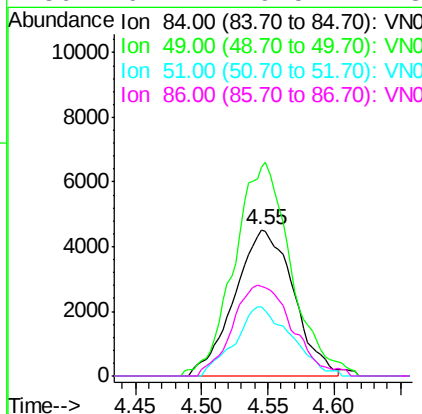
Manual Integrations
APPROVED

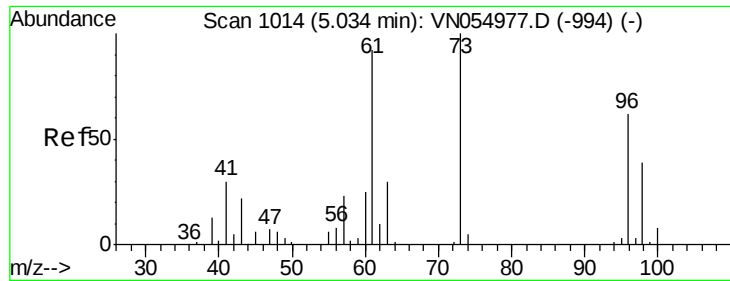
MMDadoda
4/17/2019 9:35:41 AM



#18
Methylene Chloride
Concen: 3.090 ug/l
RT: 4.55 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

Tgt Ion	Ratio	Lower	Upper
84	100		
49	138.5	111.0	166.4
51	46.9	33.4	50.2
86	61.4	49.5	74.3





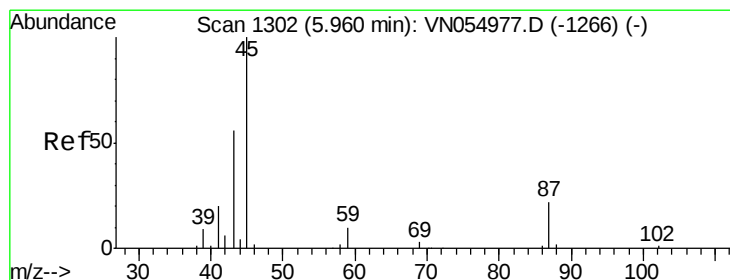
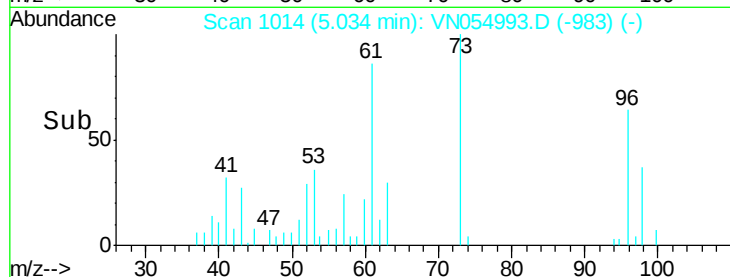
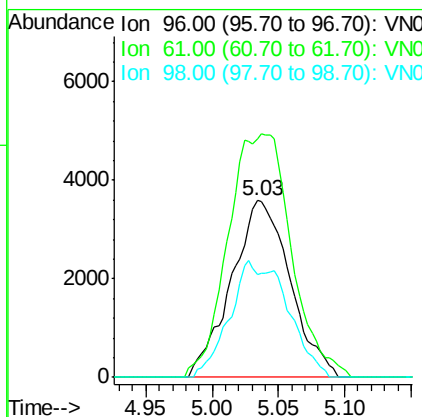
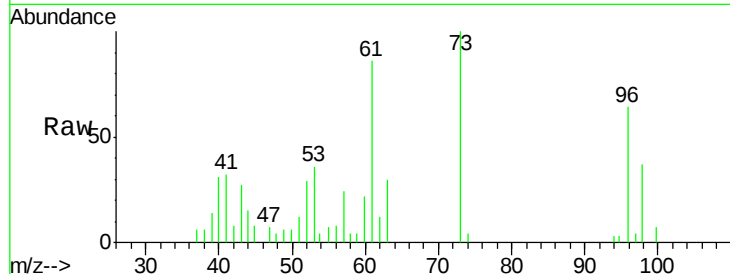
#19
trans-1,2-Dichloroethene
Concen: 2.765 ug/l
RT: 5.03 min Scan# 1014
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

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

Tot Ion	Ion	Ratio	Lower	Upper
96	100			
61	129.9	117.2	175.8	
98	58.5	49.4	74.2	

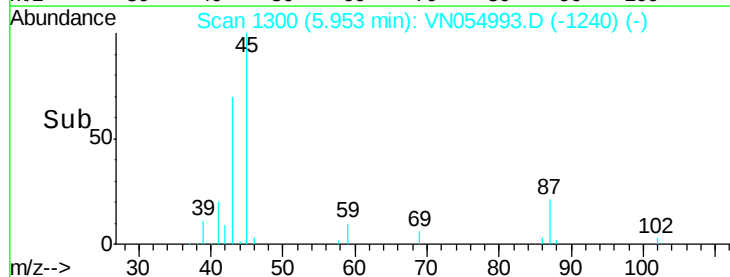
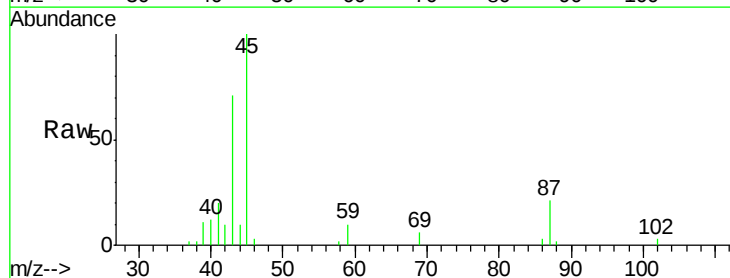
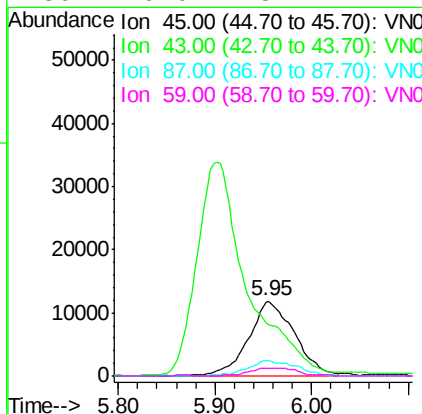
Manual Integrations
APPROVED

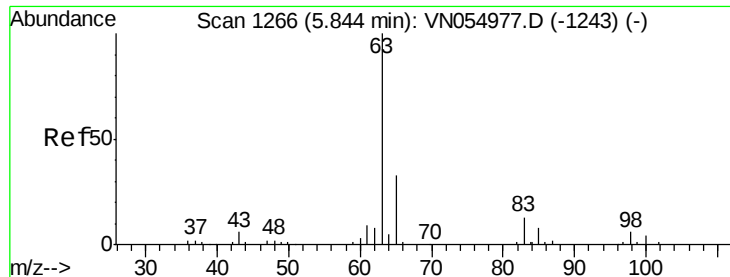
MMDadoda
4/17/2019 9:35:41 AM



#20
Diisopropyl ether
Concen: 2.560 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. -0.01 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

Tgt Ion	Ion	Ratio	Lower	Upper
45	100			
43	65.8	45.8	68.8	
87	20.9	18.2	27.4	
59	10.0	8.2	12.2	





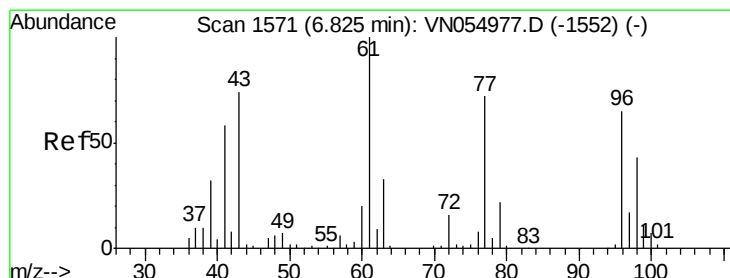
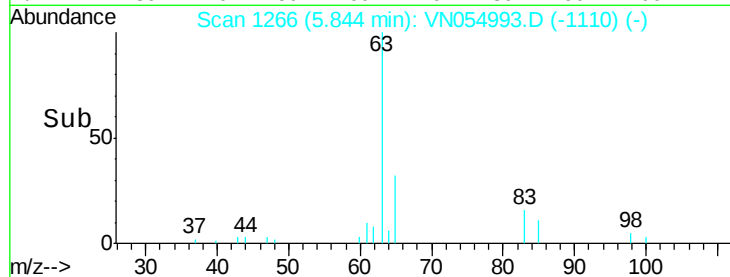
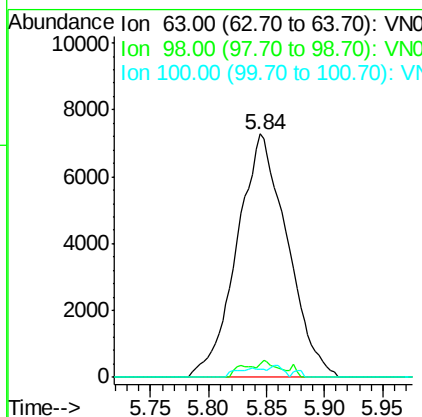
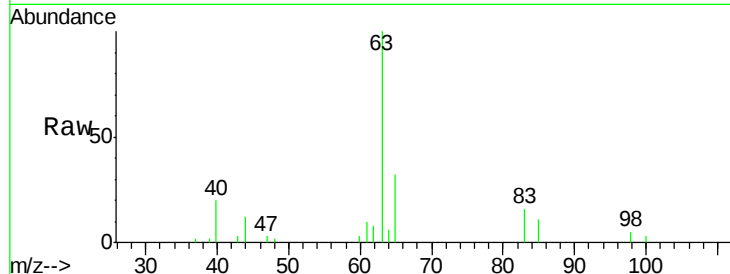
#21
 1,1-Dichloroethane
 Concen: 2.682 ug/l
 RT: 5.84 min Scan# 1266
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

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

Tot Ion	63	Resp	21951
Ion	Ratio	Lower	Upper
63	100		
98	5.2	2.9	8.7
100	3.1	2.0	5.8

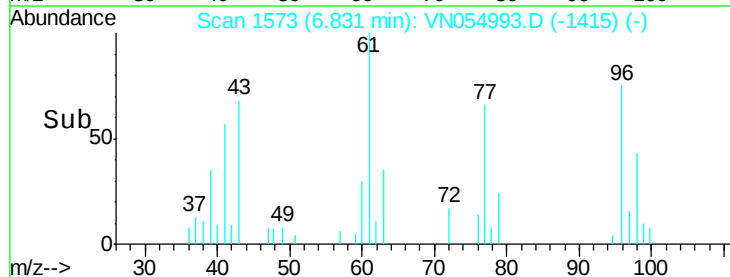
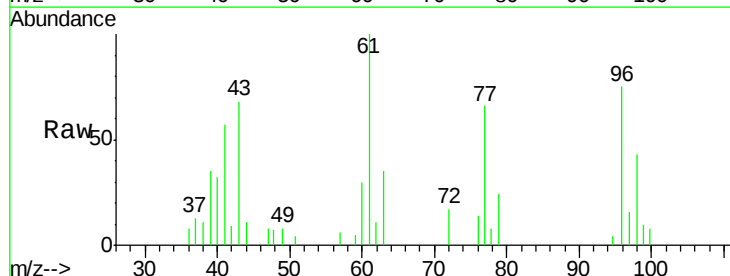
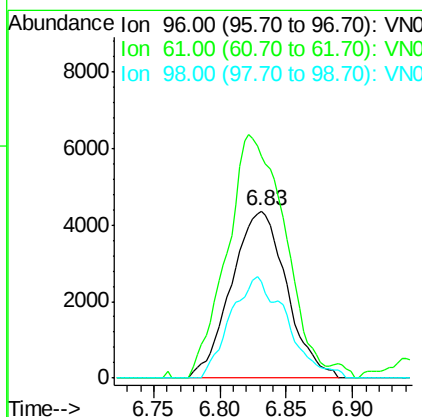
Manual Integrations
 APPROVED

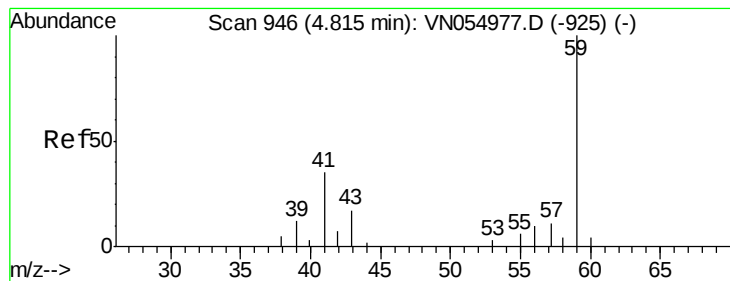
MMDadoda
 4/17/2019 9:35:41 AM



#22
 cis-1,2-Dichloroethene
 Concen: 2.731 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. 0.01 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

Tgt Ion	96	Resp	12693
Ion	Ratio	Lower	Upper
96	100		
61	152.7	125.0	187.6
98	43.6	52.2	78.2#





#23

tert-Butyl Alcohol

Concen: 15.731 ug/l m

RT: 4.82 min Scan# 949

Delta R.T. 0.01 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 59 Resp: 3882

Ion Ratio Lower Upper

59 100

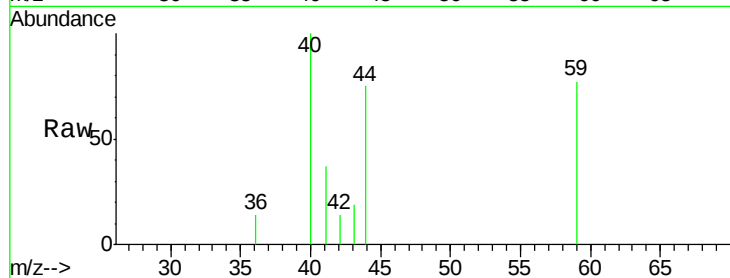
52 0.0 0.0 0.0

Manual Integrations

APPROVED

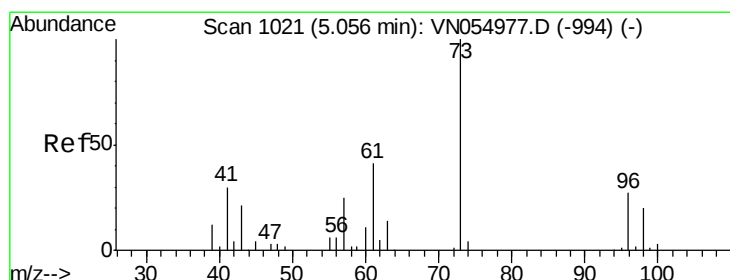
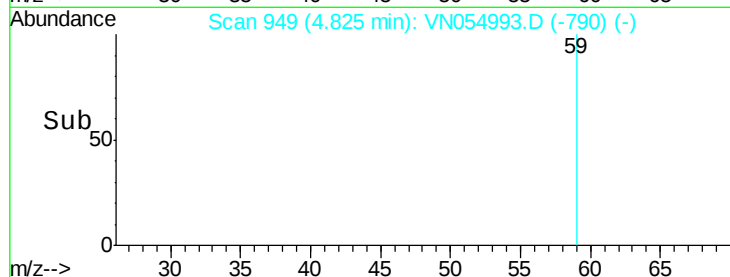
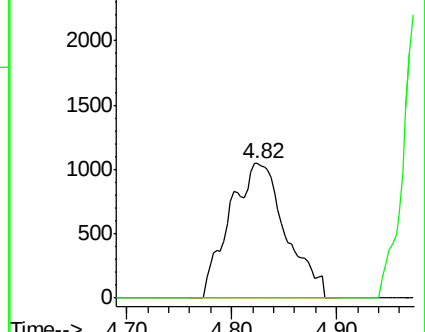
MMDadoda

4/17/2019 9:35:41 AM



Abundance Ion 59.00 (58.70 to 59.70): VN054977.D (-925) (-)

Ion 52.00 (51.70 to 52.70): VN054977.D (-925) (-)



#24

Methyl tert-Butyl Ether

Concen: 2.720 ug/l

RT: 5.05 min Scan# 1018

Delta R.T. -0.01 min

Lab File: VN054993.D

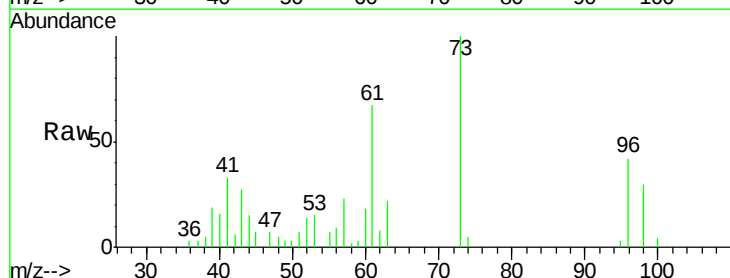
Acq: 12 Apr 2019 12:09

Tgt Ion: 73 Resp: 28050

Ion Ratio Lower Upper

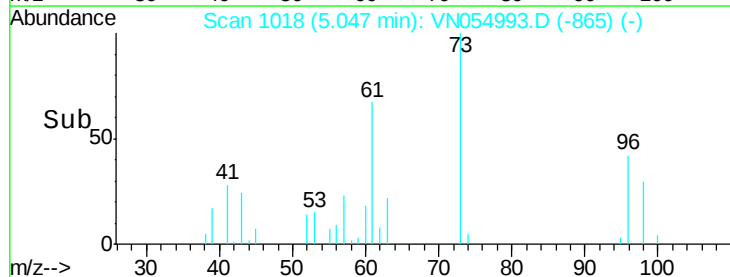
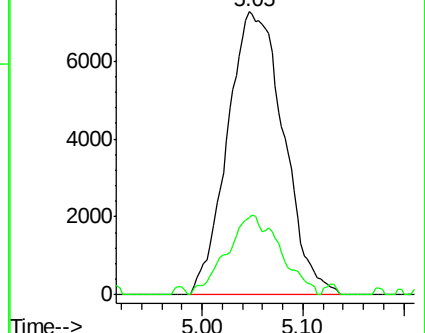
73 100

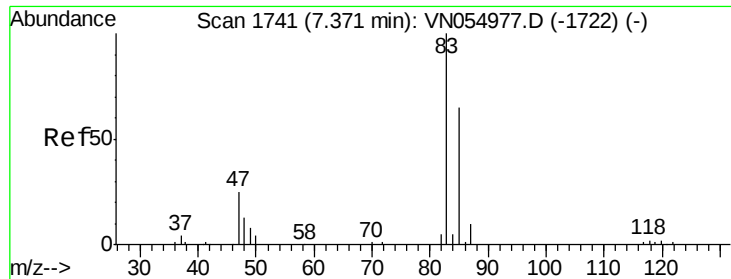
43 13.7 8.0 12.0#



Abundance Ion 73.00 (72.70 to 73.70): VN054977.D (-994) (-)

Ion 43.00 (42.70 to 43.70): VN054977.D (-994) (-)





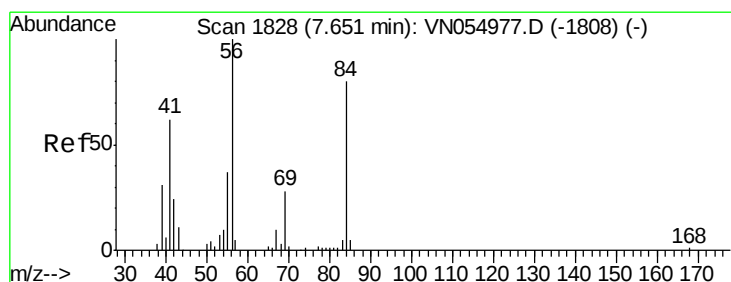
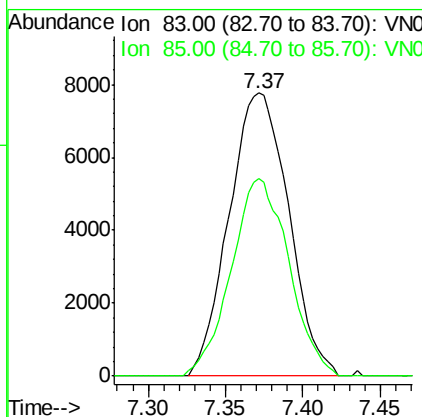
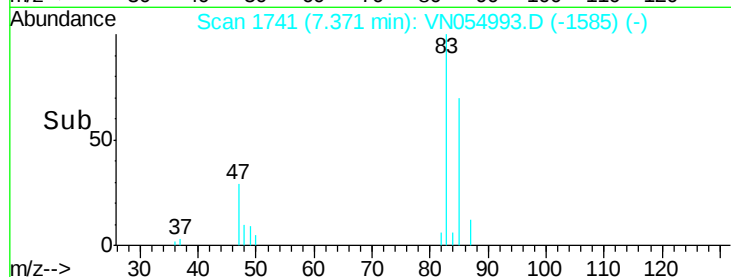
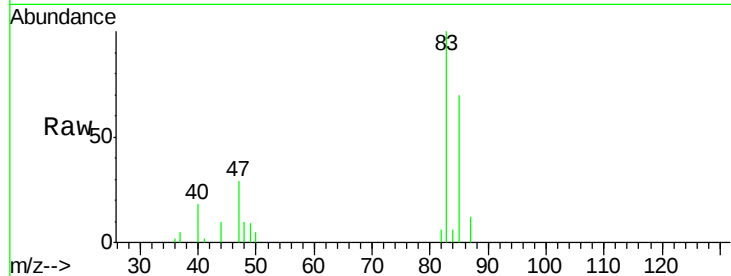
#25
Chloroform
Concen: 2.653 ug/l
RT: 7.37 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

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

Tot Ion	83	Resp	20794
Ion Ratio	100	Lower	Upper
83	100		
85	69.9	51.8	77.8

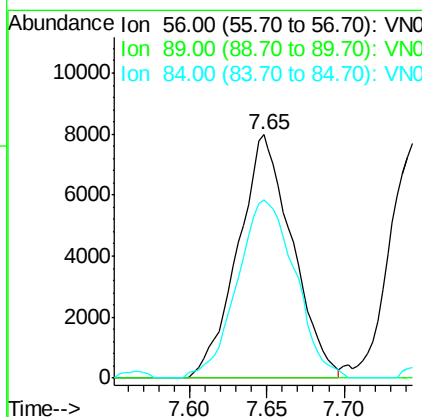
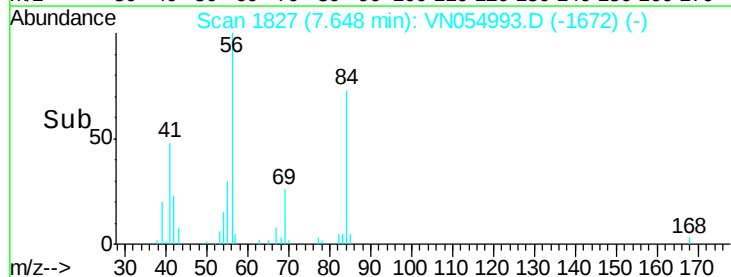
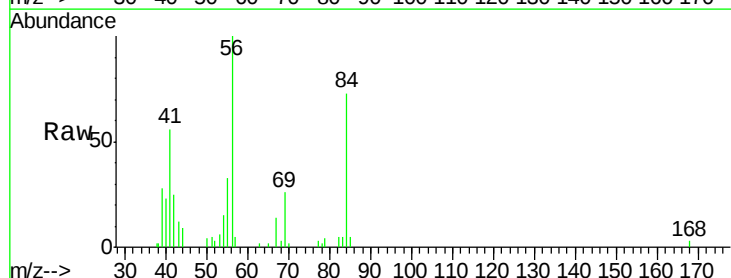
Manual Integrations
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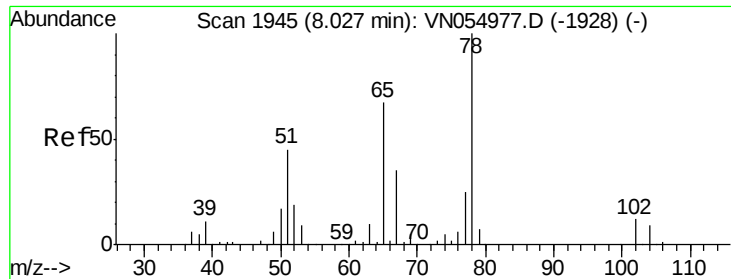
MMDadoda
4/17/2019 9:35:41 AM



#26
Cyclohexane
Concen: 2.565 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

Tgt Ion	56	Resp	19474
Ion Ratio	100	Lower	Upper
56	100		
89	0.0	0.0	0.0
84	78.1	63.5	95.3





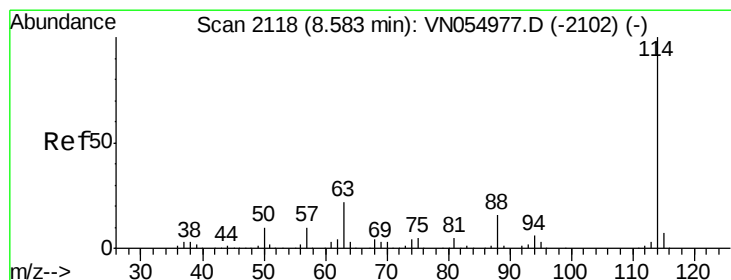
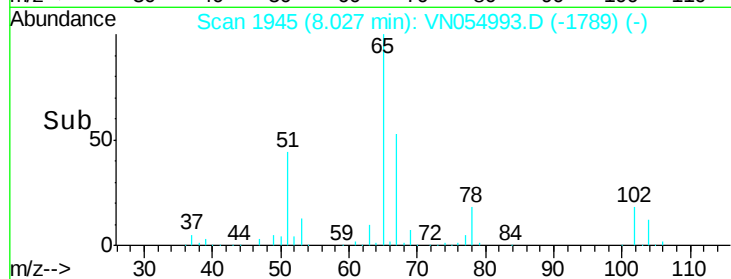
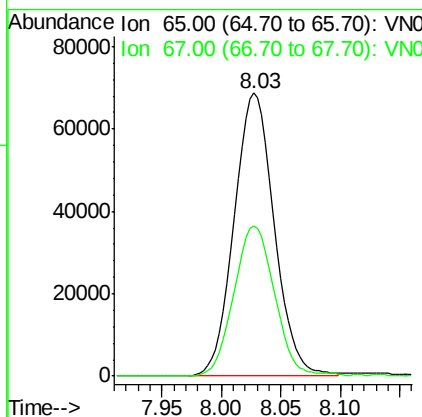
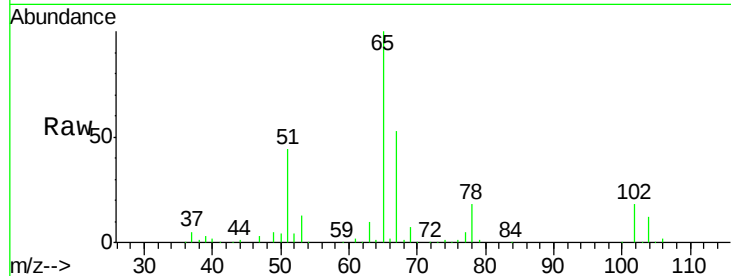
#27
 1,2-Dichloroethane-d4
 Concen: 2.565 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

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

Tot Ion	Ratio	Resp	Lower	Upper
65	100	160863		
67	53.6		41.8	62.8

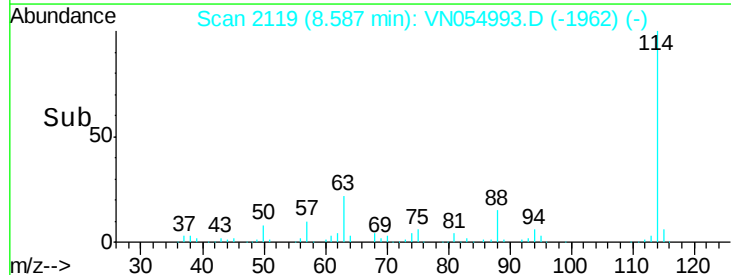
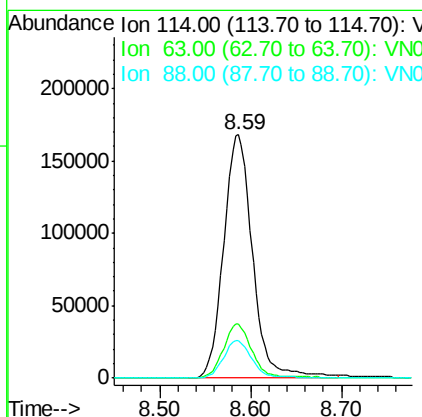
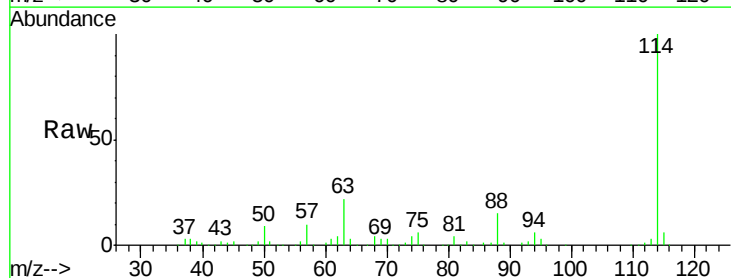
Manual Integrations
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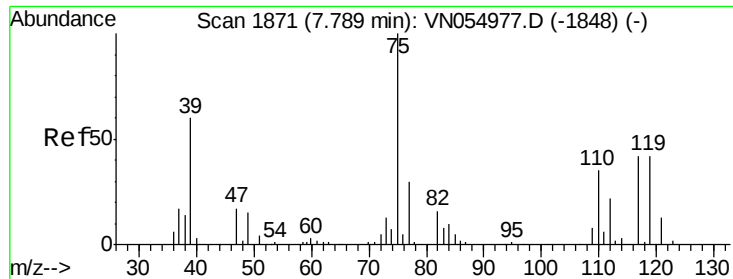
MMDadoda
 4/17/2019 9:35:41 AM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	372739		
63	21.6		17.0	25.4
88	14.7		12.3	18.5





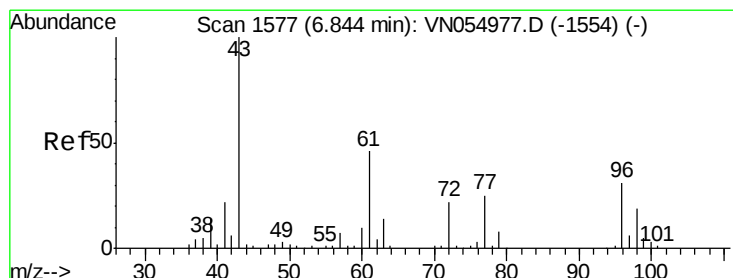
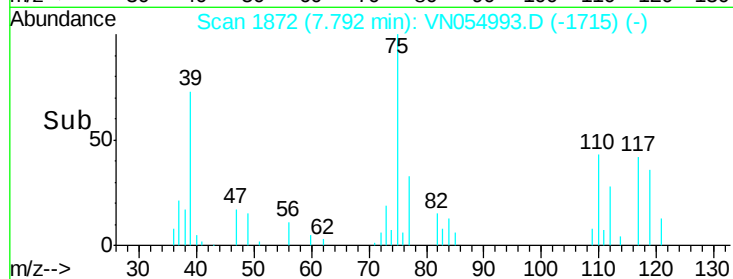
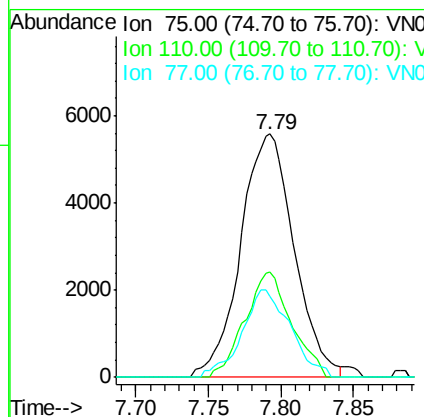
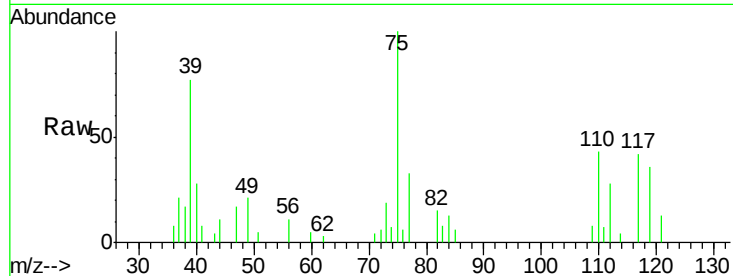
#29
 1,1-Dichloropropene
 Concen: 2.462 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

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

Tot Ion	Ratio	Resp	Lower	Upper
75	100			
110	37.6	0.0	68.4	
77	32.6	0.0	58.6	

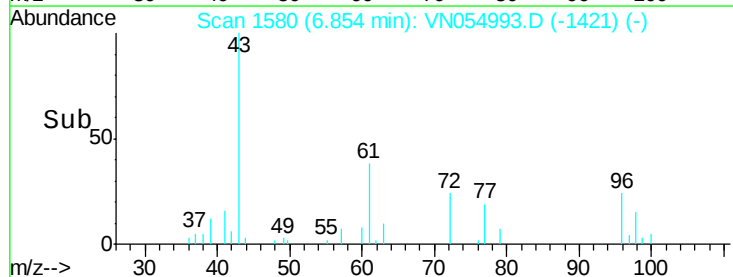
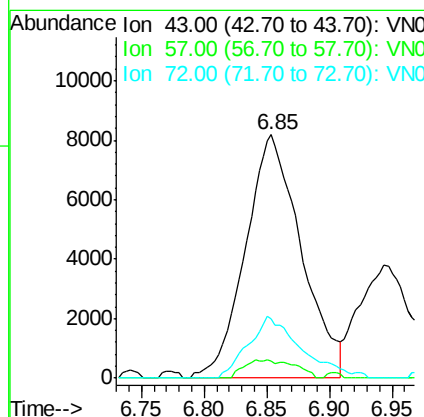
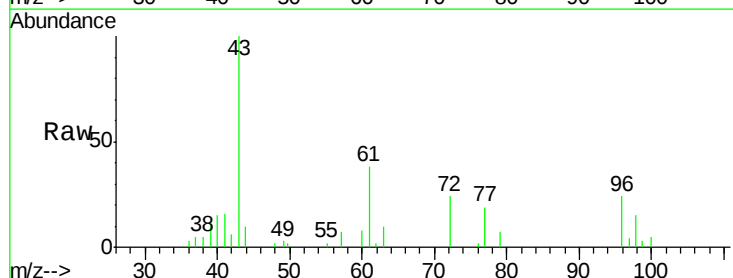
Manual Integrations
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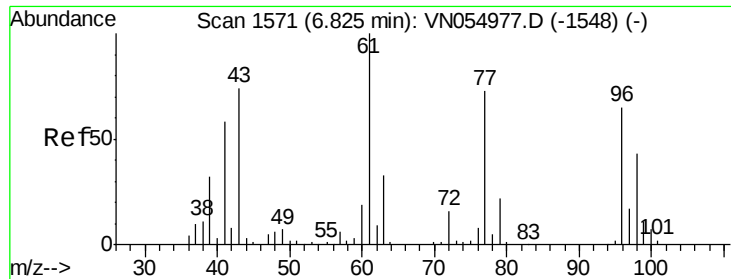
MMDadoda
 4/17/2019 9:35:41 AM



#30
 2-Butanone
 Concen: 13.128 ug/l
 RT: 6.85 min Scan# 1580
 Delta R.T. 0.01 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
57	2.8	6.0	9.0#	
72	21.5	18.6	27.8	





#31

2,2-Dichloropropane

Concen: 2.580 ug/l m

RT: 6.82 min Scan# 1569

Delta R.T. -0.01 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 77 Resp: 13784

Ion Ratio Lower Upper

77 100

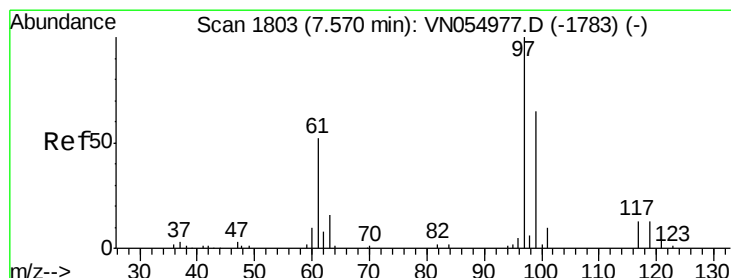
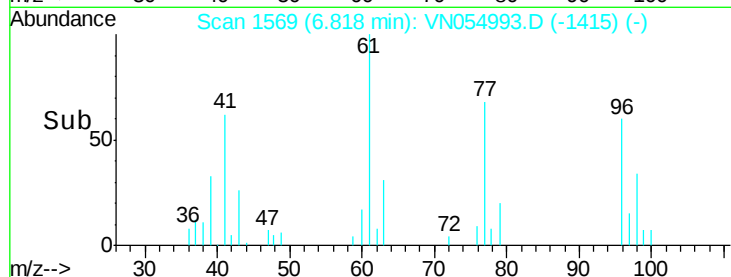
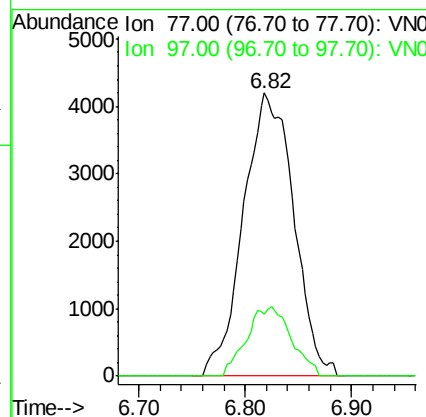
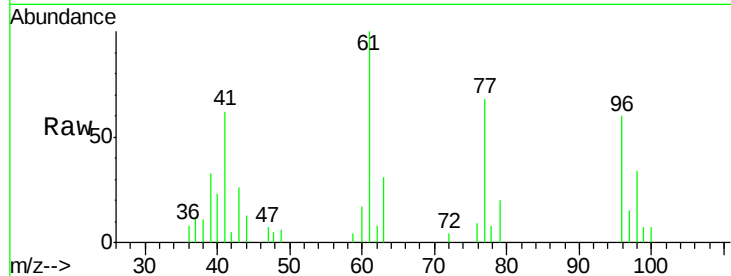
97 9.5 0.0 0.0#

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 2.726 ug/l

RT: 7.57 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

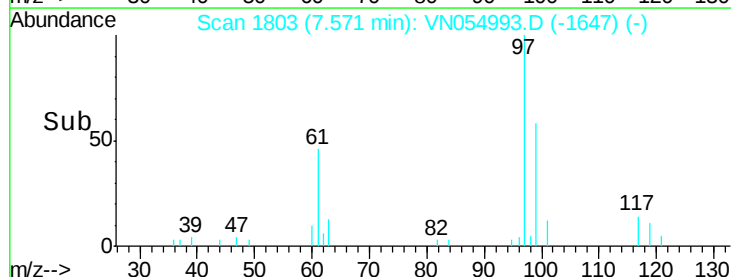
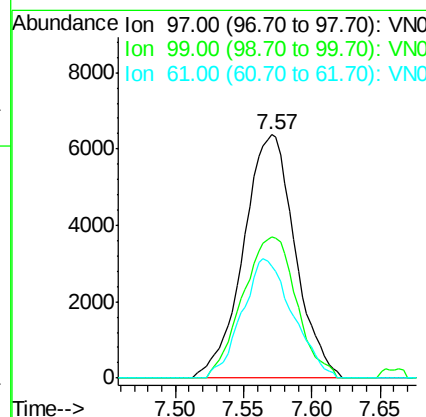
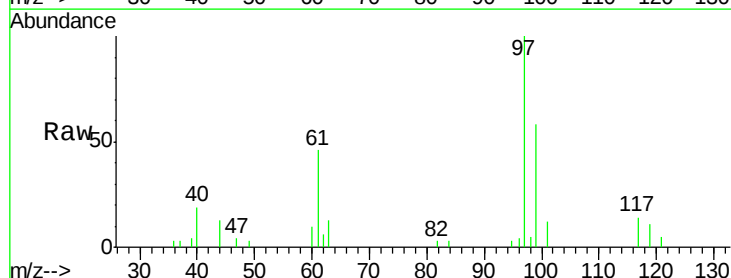
Tgt Ion: 97 Resp: 16726

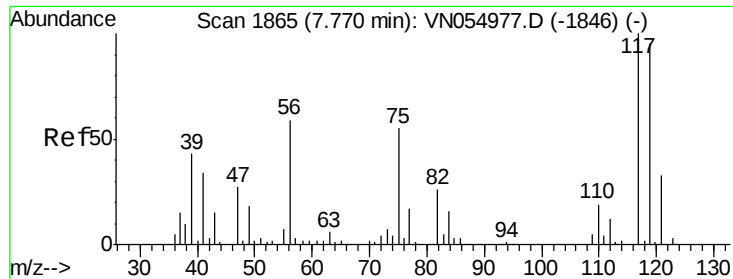
Ion Ratio Lower Upper

97 100

99 60.3 51.2 76.8

61 48.0 40.6 60.8





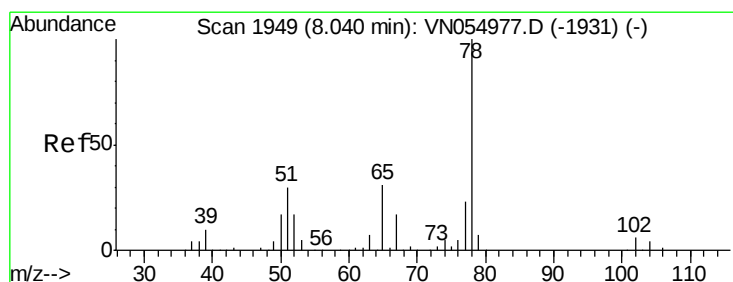
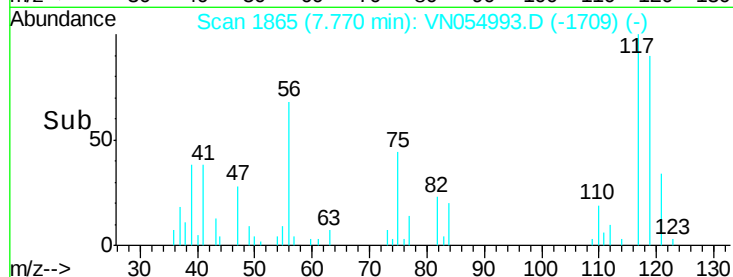
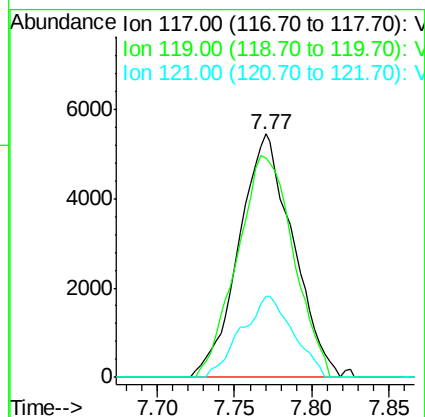
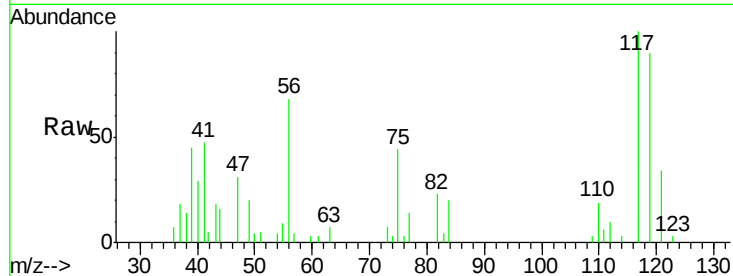
#33
Carbon Tetrachloride
Concen: 2.490 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

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

Tot Ion:117 Resp: 13227
Ion Ratio Lower Upper
117 100
119 90.1 76.1 114.1
121 33.5 26.2 39.4

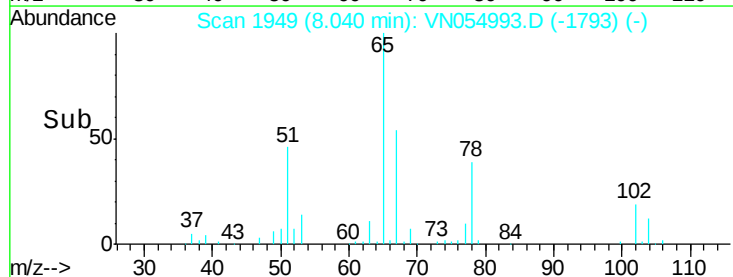
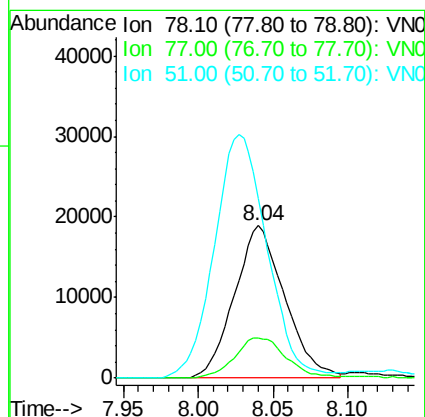
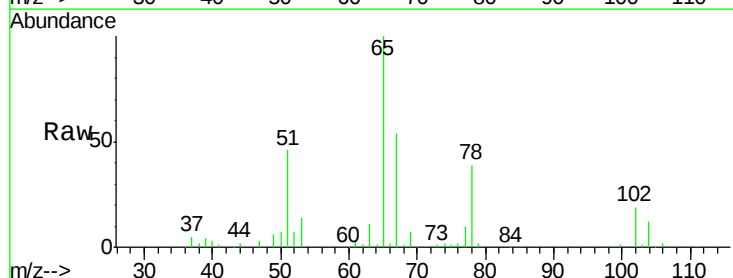
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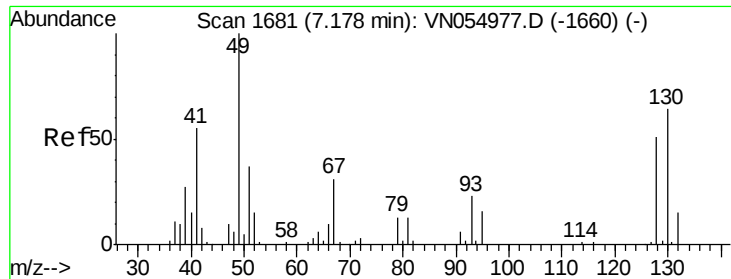
MMDadoda
4/17/2019 9:35:41 AM



#34
Benzene
Concen: 2.570 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

Tgt Ion: 78 Resp: 44205
Ion Ratio Lower Upper
78 100
77 26.0 18.2 27.4
51 114.0 23.7 35.5#





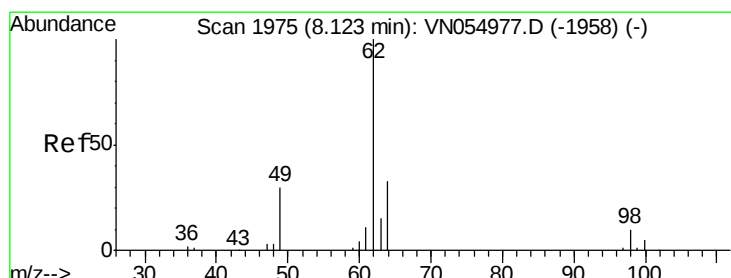
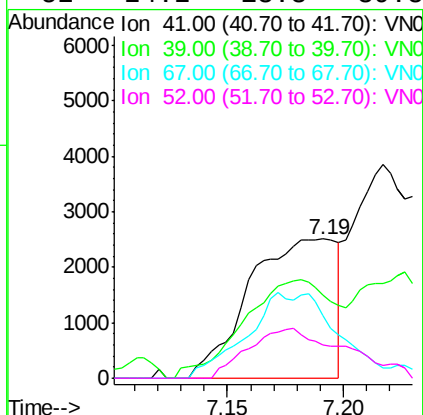
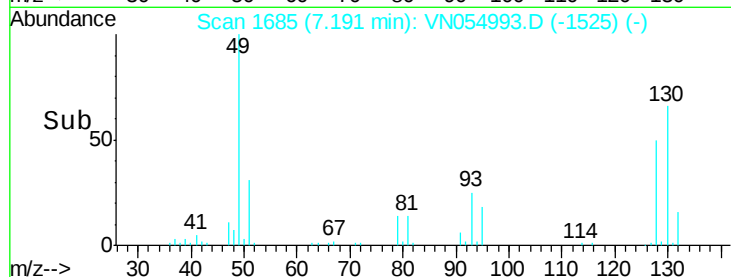
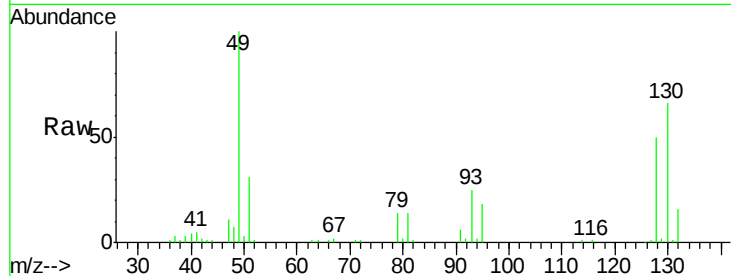
#35
Methacrylonitrile
Concen: 2.898 ug/l
RT: 7.19 min Scan# 1685
Delta R.T. 0.01 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

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

Tot Ion	41	Resp:	6581
Ion Ratio	Lower	Upper	
41	100		
39	51.5	24.2	72.6
67	44.9	28.1	84.2
52	24.2	13.3	39.8

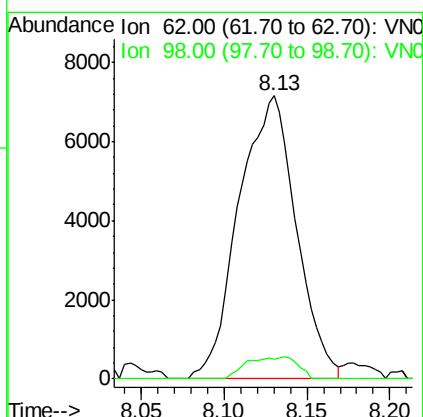
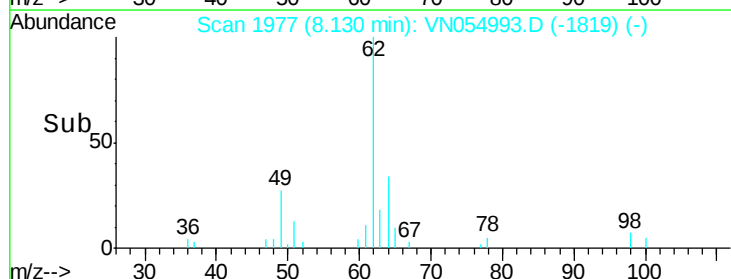
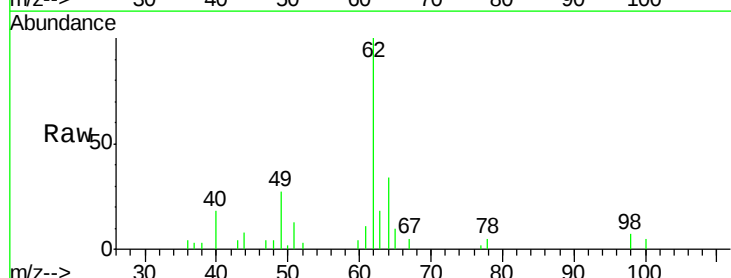
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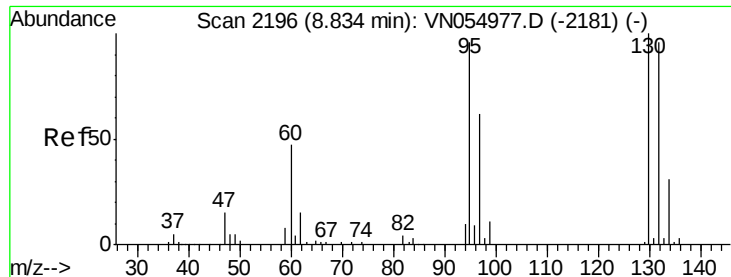
MMDadoda
4/17/2019 9:35:41 AM



#36
1,2-Dichloroethane
Concen: 2.938 ug/l
RT: 8.13 min Scan# 1977
Delta R.T. 0.01 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

Tgt Ion	62	Resp:	17273
Ion Ratio	Lower	Upper	
62	100		
98	2.4	6.9	10.3#





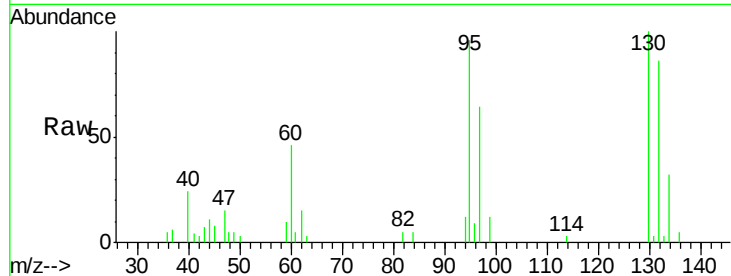
#37
 Trichloroethene
 Concen: 2.708 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

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

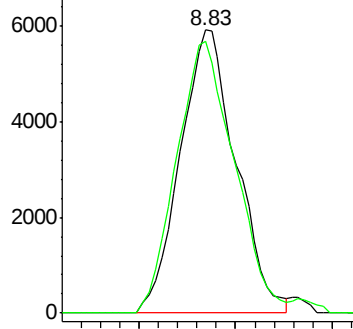
Tot Ion:130 Resp: 11876
 Ion Ratio Lower Upper
 130 100
 95 96.1 76.6 115.0

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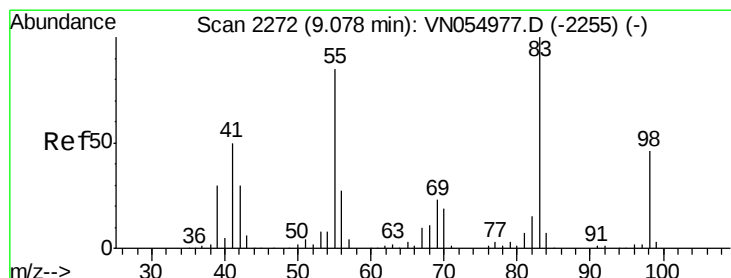
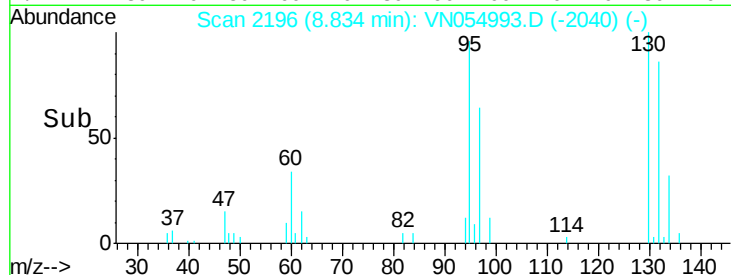
MMDadoda
 4/17/2019 9:35:41 AM



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

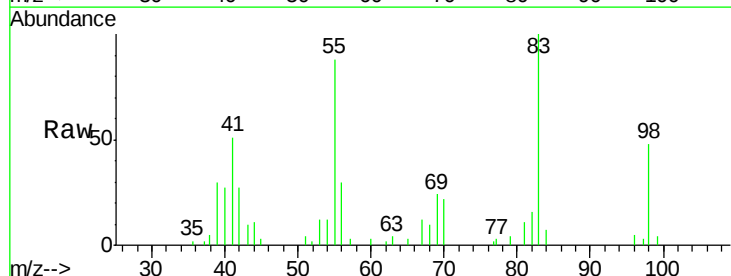


Time-->

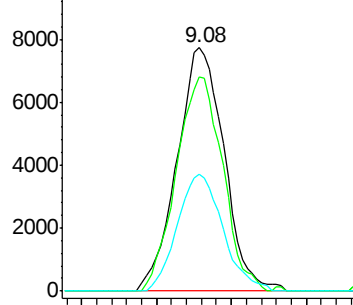


#38
 Methylcyclohexane
 Concen: 2.513 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

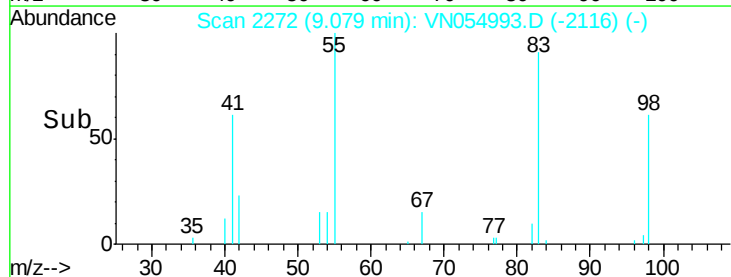
Tgt Ion: 83 Resp: 16919
 Ion Ratio Lower Upper
 83 100
 55 86.6 41.9 125.6
 98 46.4 22.4 67.0

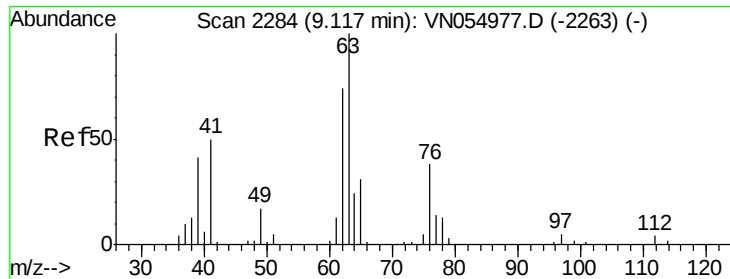


Abundance Ion 83.00 (82.70 to 83.70): VN
 Ion 55.00 (54.70 to 55.70): VN
 Ion 98.00 (97.70 to 98.70): VN



Time-->





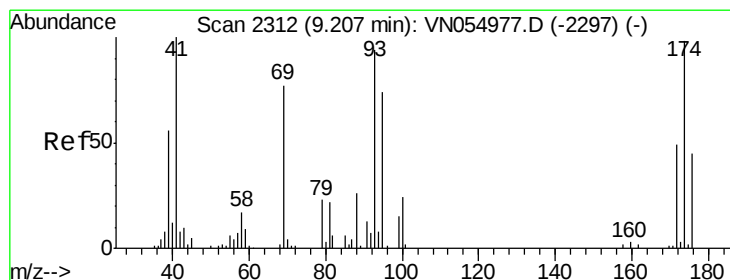
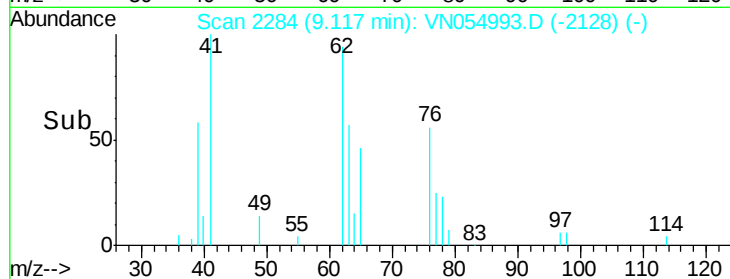
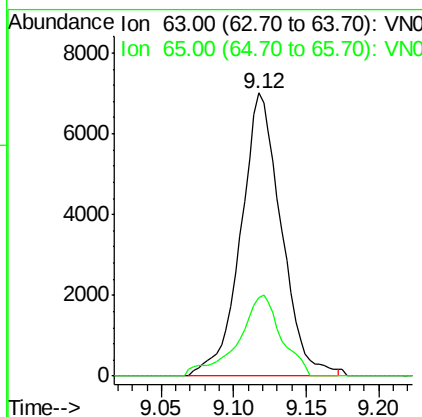
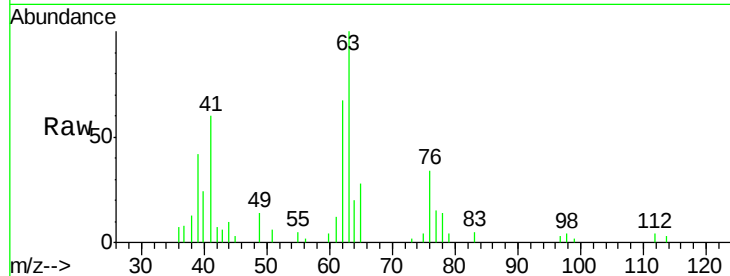
#39
 1,2-Dichloropropane
 Concen: 2.868 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

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

Tot Ion	63	Resp	13621
Ion Ratio	Lower	Upper	
63	100		
65	27.8	24.8	37.2

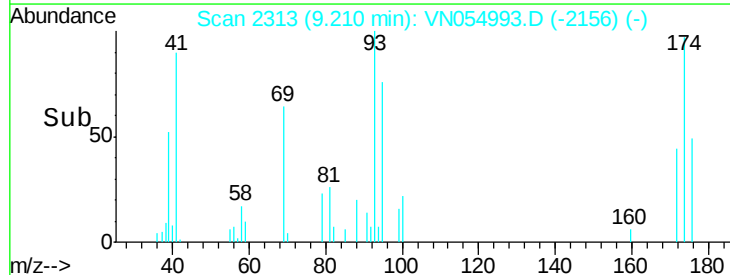
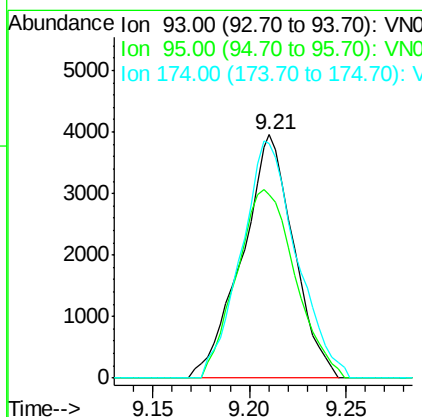
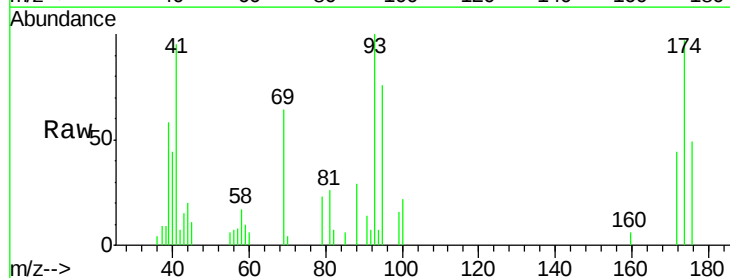
Manual Integrations
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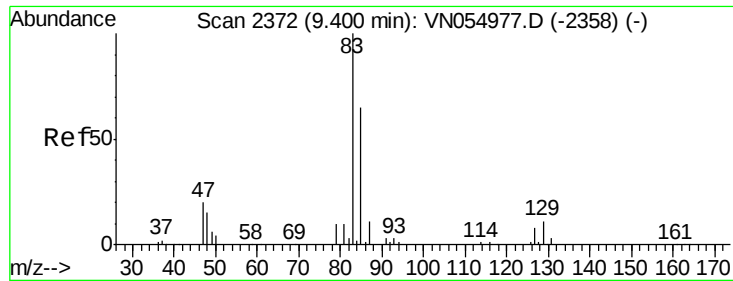
MMDadoda
 4/17/2019 9:35:41 AM



#40
 Dibromomethane
 Concen: 2.734 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

Tgt Ion	93	Resp	7340
Ion Ratio	Lower	Upper	
93	100		
95	87.5	0.0	160.8
174	104.6	0.0	206.4





#41

Bromodichloromethane

Concen: 2.572 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.00 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Instrument :

MSVOA_N

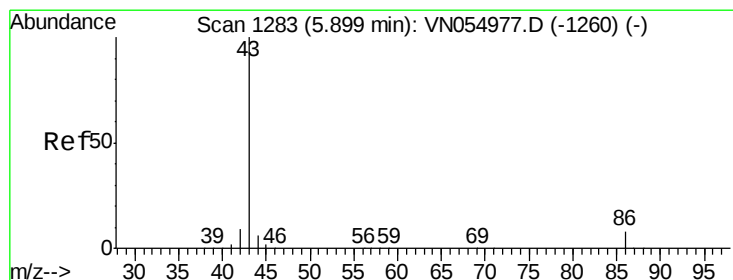
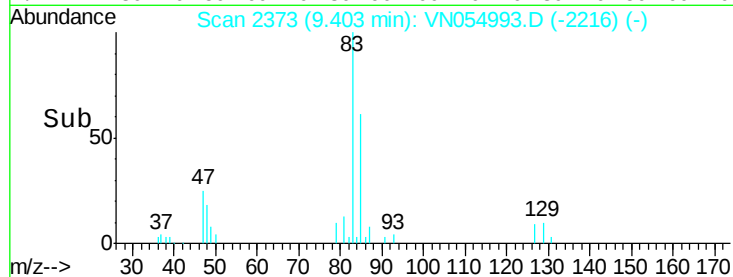
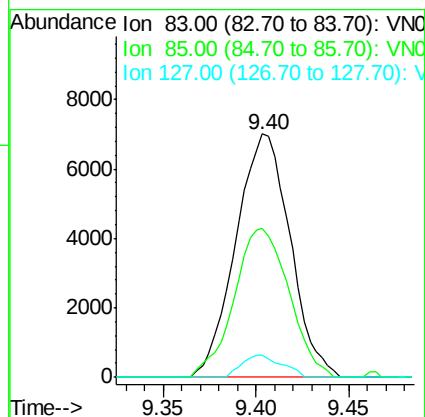
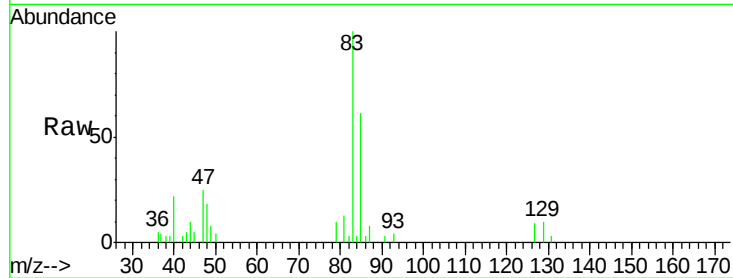
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	83	Resp:	14252
Ion Ratio	Lower	Upper	
83	100		
85	61.2	52.0	78.0
127	9.2	7.2	10.8

Manual Integrations
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MMDadoda
4/17/2019 9:35:41 AM



#42

Vinyl Acetate

Concen: 12.420 ug/l

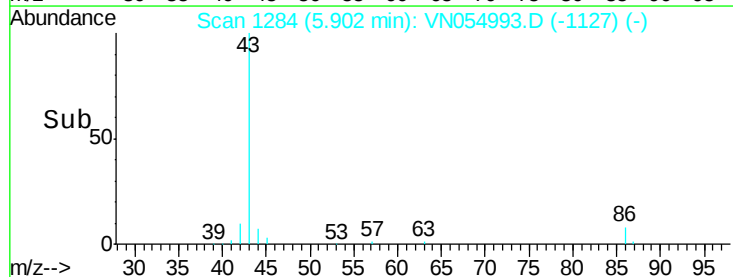
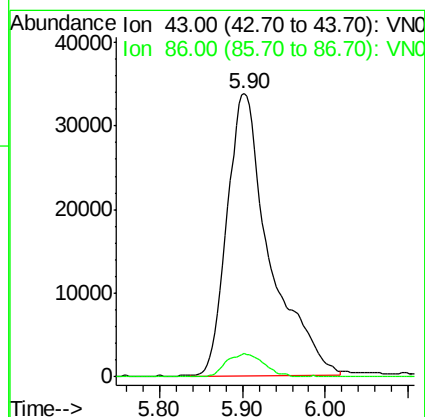
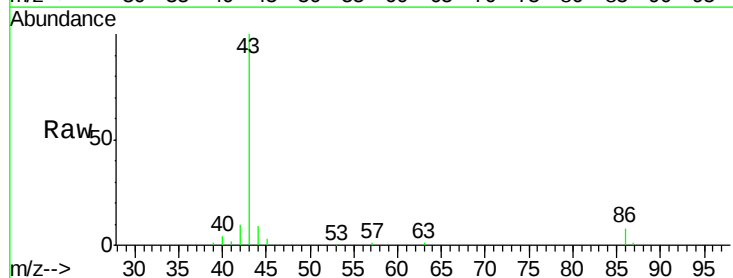
RT: 5.90 min Scan# 1284

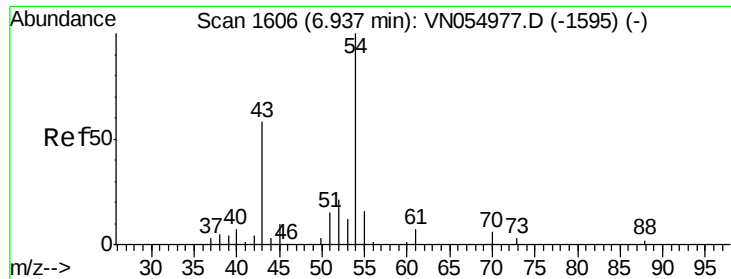
Delta R.T. 0.00 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Tgt Ion:	43	Resp:	120995
Ion Ratio	Lower	Upper	
43	100		
86	7.1	5.7	8.5





#43

Ethyl Acetate

Concen: 2.977 ug/l

RT: 6.94 min Scan# 1608

Delta R.T. 0.01 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 43 Resp: 11688

Ion Ratio Lower Upper

43 100

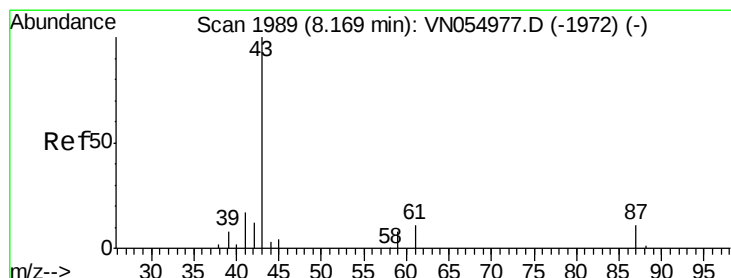
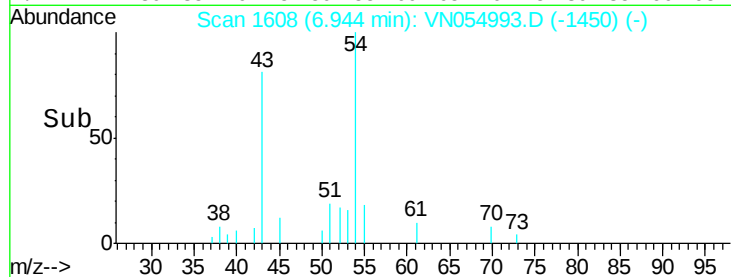
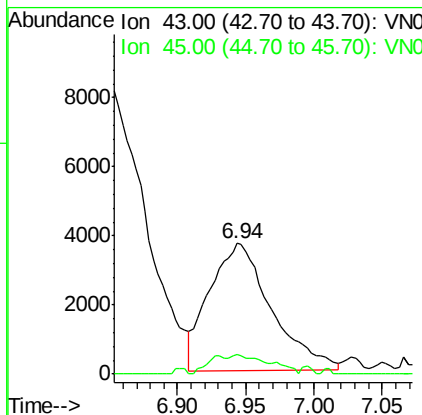
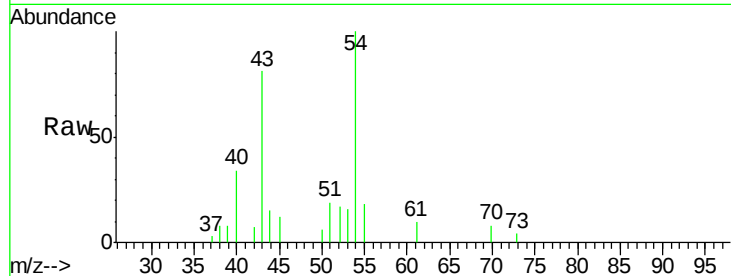
45 1.2 10.6 15.8#

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#44

Isopropyl Acetate

Concen: 2.639 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN054993.D

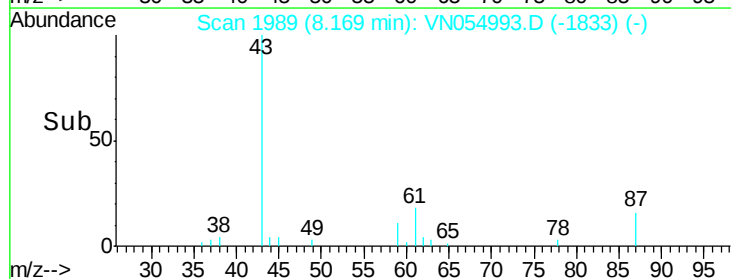
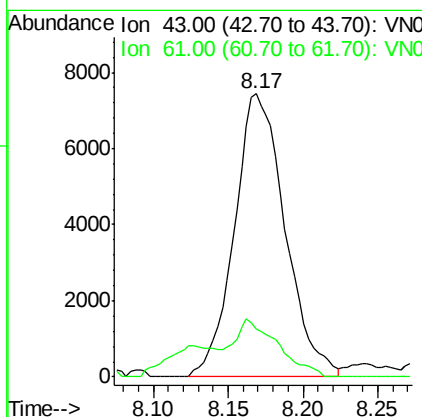
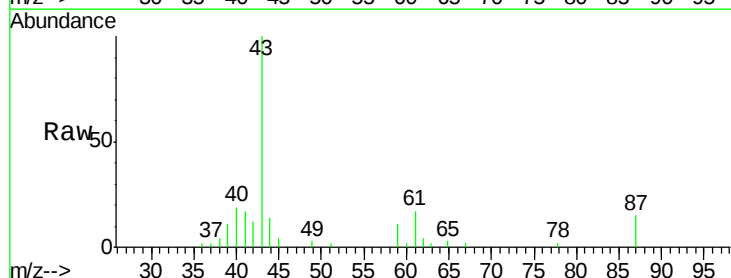
Acq: 12 Apr 2019 12:09

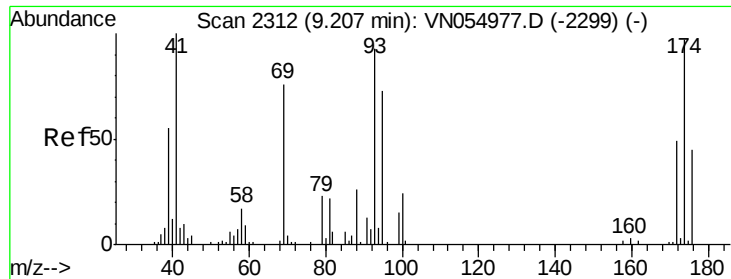
Tgt Ion: 43 Resp: 17556

Ion Ratio Lower Upper

43 100

61 16.0 14.8 22.2





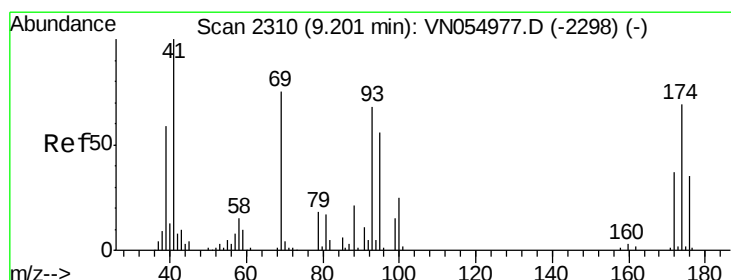
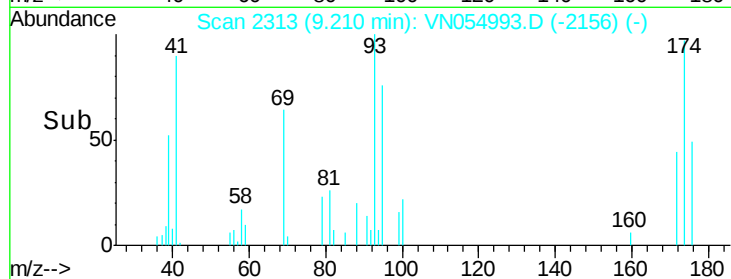
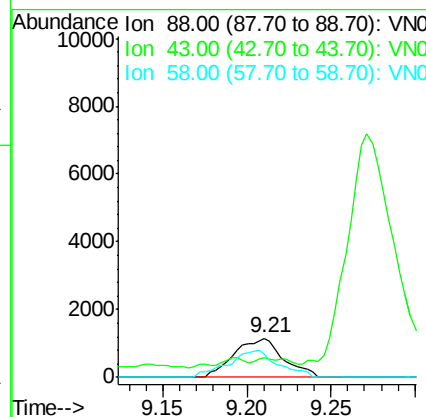
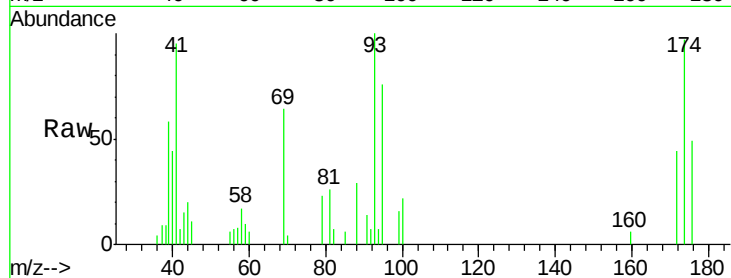
#45
 1,4-Dioxane
 Concen: 63.110 ug/l m
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

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

Tot Ion	Ratio	Lower	Upper
88	100		
43	3.8	34.5	51.7#
58	67.4	60.3	90.5

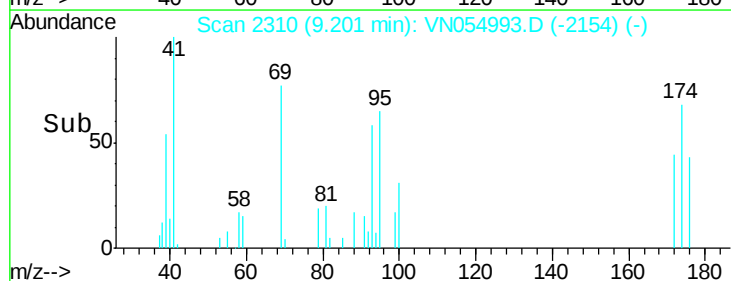
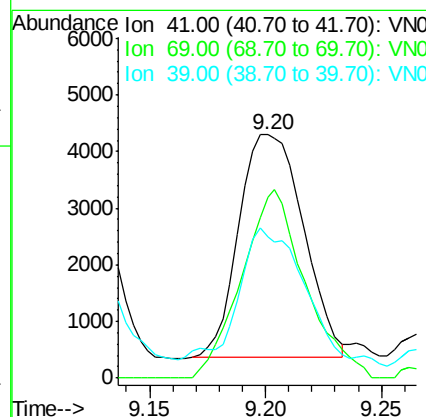
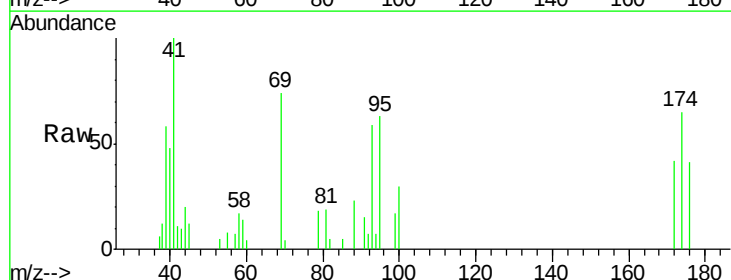
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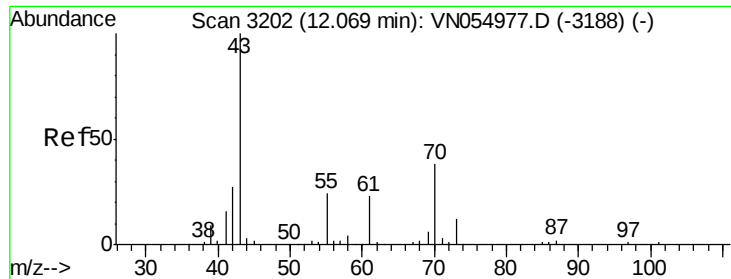
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#46
 Methyl methacrylate
 Concen: 2.221 ug/l
 RT: 9.20 min Scan# 2310
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

Tgt Ion	Ratio	Lower	Upper
41	100		
69	80.9	37.3	111.9
39	53.3	29.4	88.2





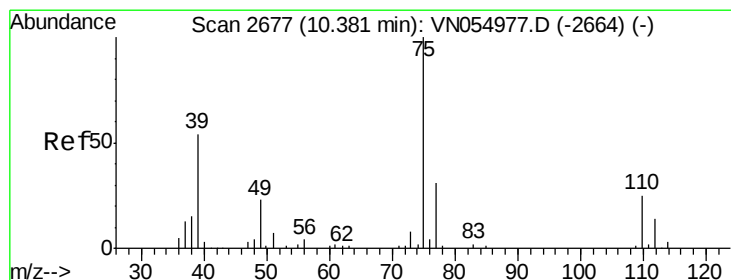
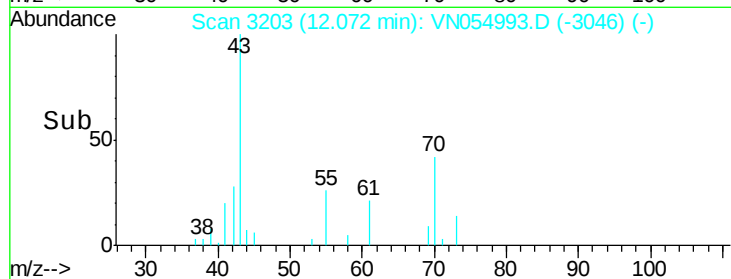
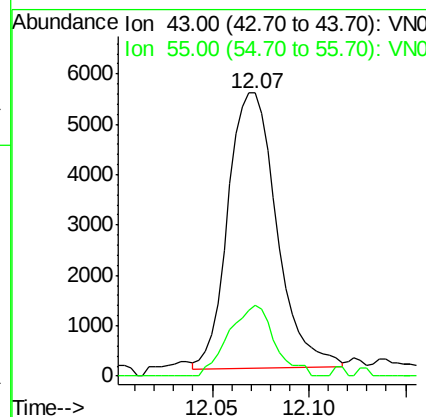
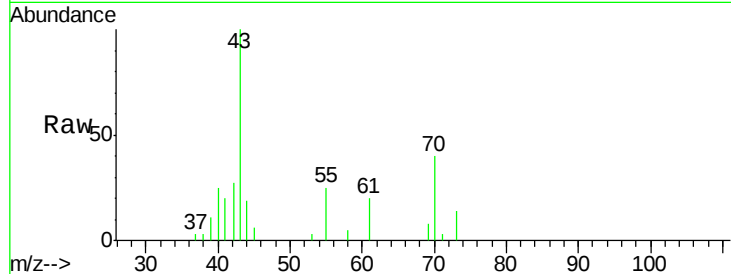
#47
n-amvl Acetate
Concen: 1.949 ug/l
RT: 12.07 min Scan# 3203
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

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

Tot Ion: 43 Resp: 9548
Ion Ratio Lower Upper
43 100
55 23.4 19.8 29.6

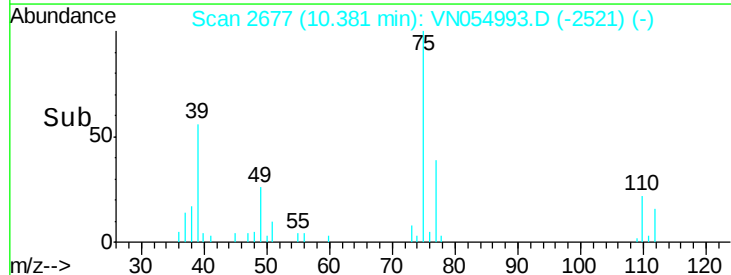
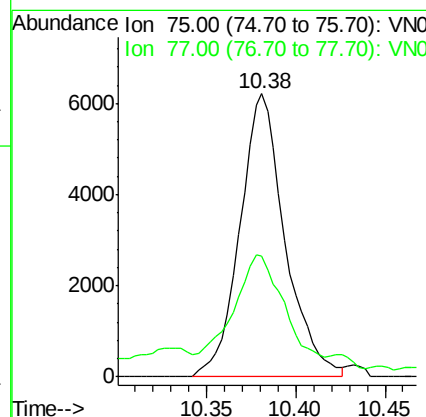
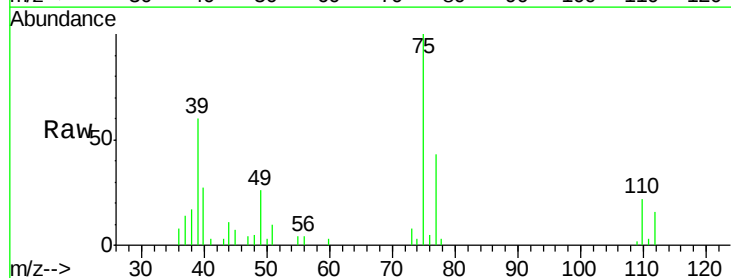
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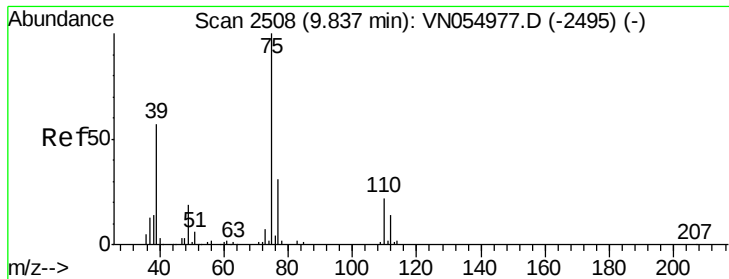
MMDadoda
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#48
t-1,3-Dichloropropene
Concen: 2.159 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

Tgt Ion: 75 Resp: 10984
Ion Ratio Lower Upper
75 100
77 38.2 24.6 37.0#





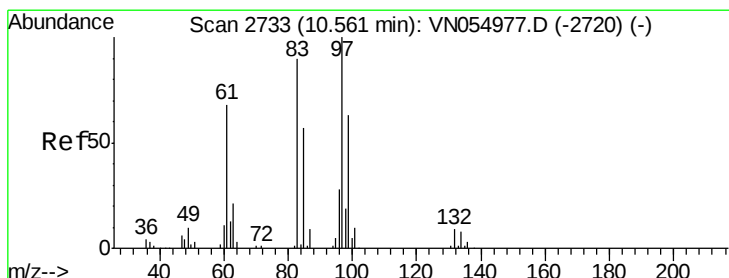
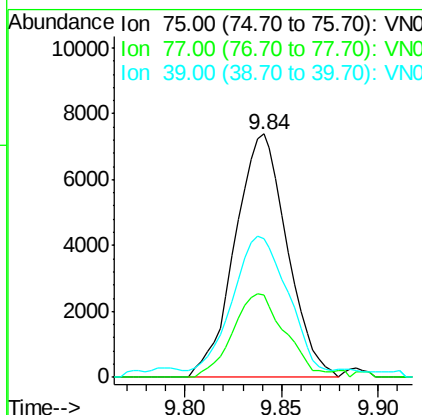
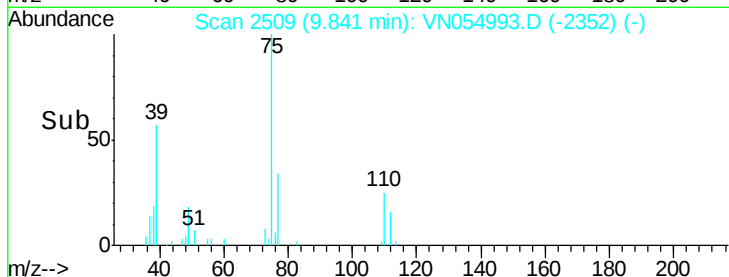
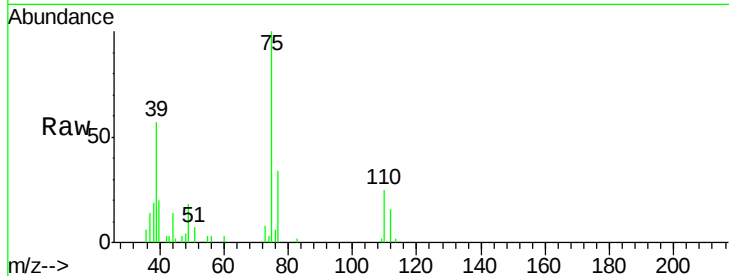
#49
 cis-1,3-Dichloropropene
 Concen: 2.205 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

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

Tot Ion	Ratio	Lower	Upper
75	100		
77	33.6	24.7	37.1
39	53.8	45.3	67.9

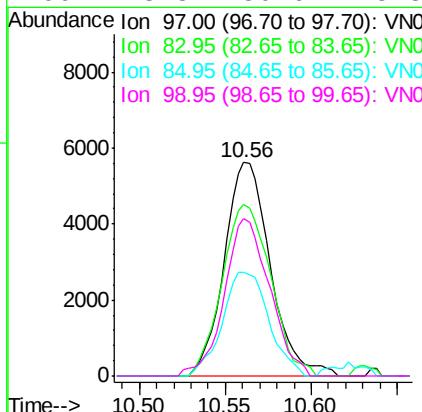
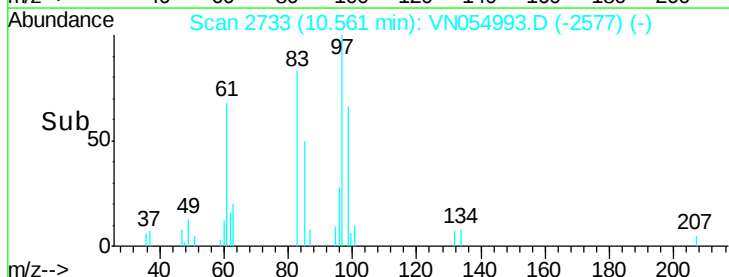
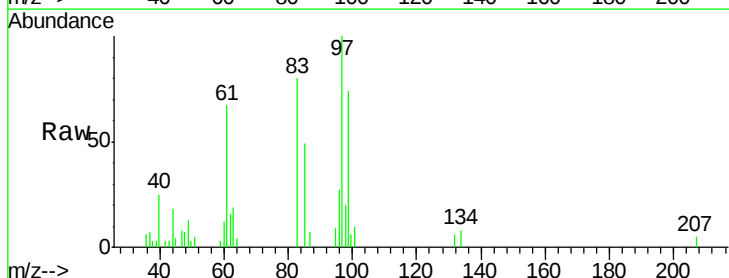
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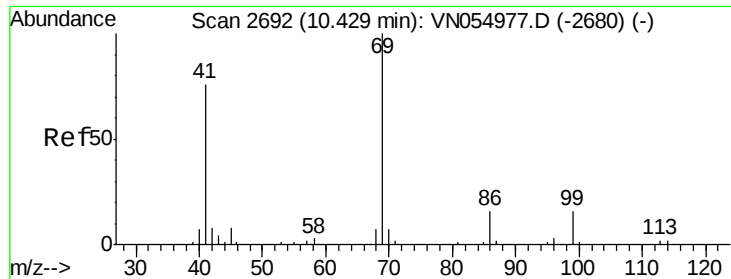
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 4/17/2019 9:35:41 AM



#50
 1,1,2-Trichloroethane
 Concen: 2.868 ug/l
 RT: 10.56 min Scan# 2733
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

Tgt Ion	Ratio	Lower	Upper
97	100		
83	80.4	72.1	108.1
85	48.6	45.4	68.0
99	73.8	50.6	75.8





#51

Ethyl methacrylate

Concen: 2.518 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Instrument :

MSVOA_N

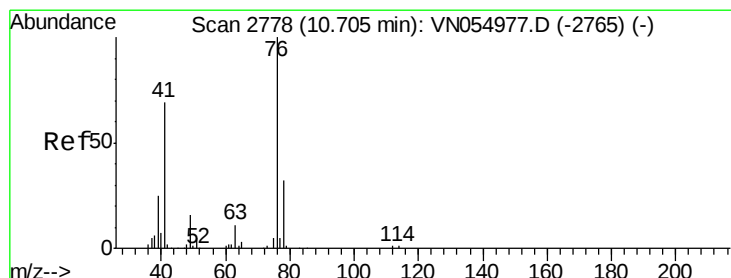
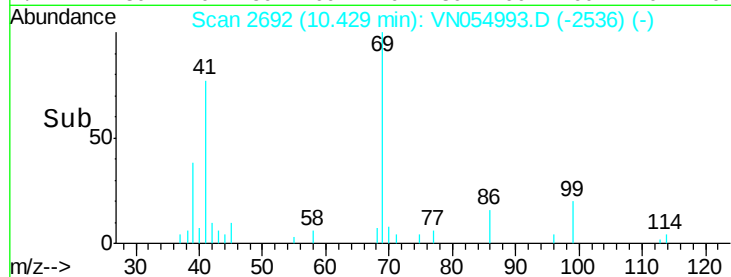
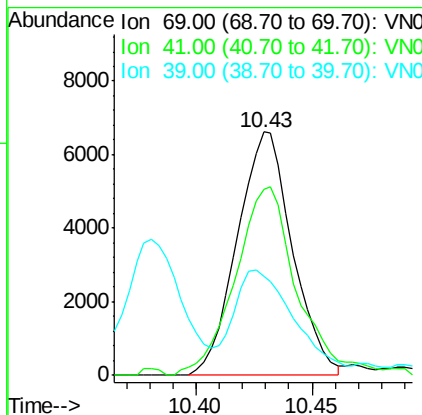
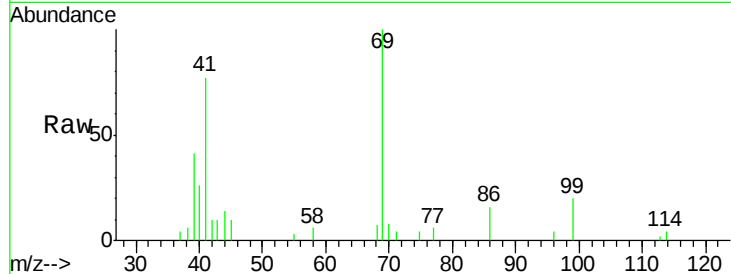
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	69	Resp:	10947
Ion	Ratio	Lower	Upper
69	100		
41	73.1	37.9	113.7
39	35.2	19.8	59.4

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#52

1,3-Dichloropropane

Concen: 2.776 ug/l

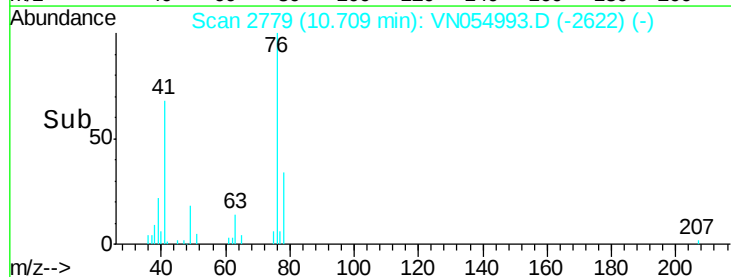
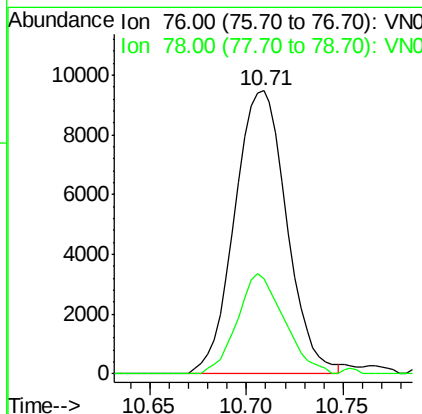
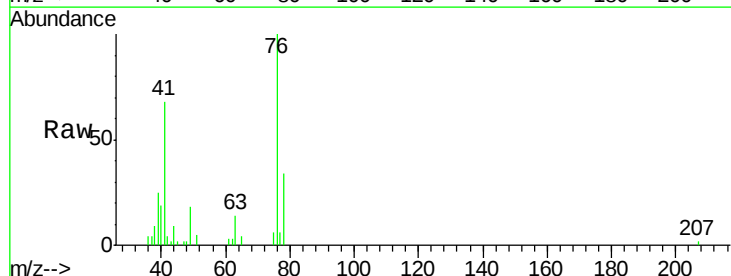
RT: 10.71 min Scan# 2779

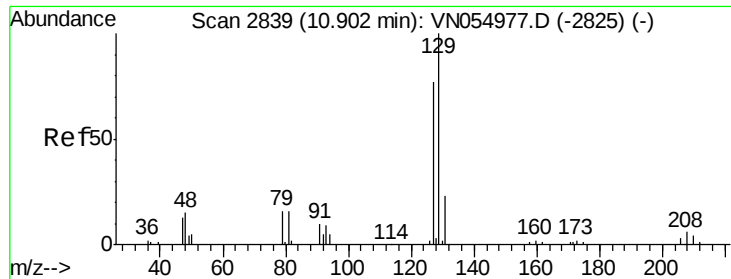
Delta R.T. 0.00 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Tgt Ion:	76	Resp:	17739
Ion	Ratio	Lower	Upper
76	100		
78	31.8	0.0	64.4





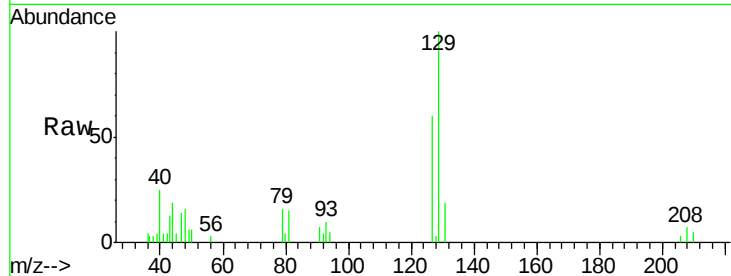
#53
 Dibromochloromethane
 Concen: 2.372 ug/l
 RT: 10.90 min Scan# 2838
 Delta R.T. -0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

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

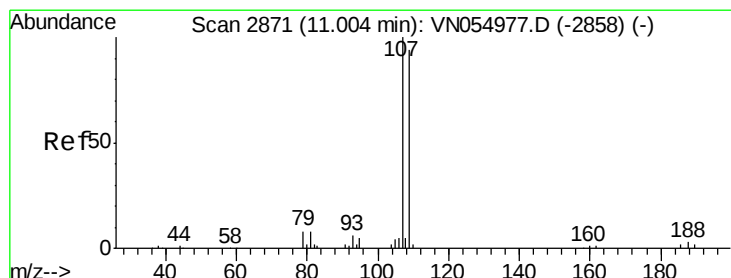
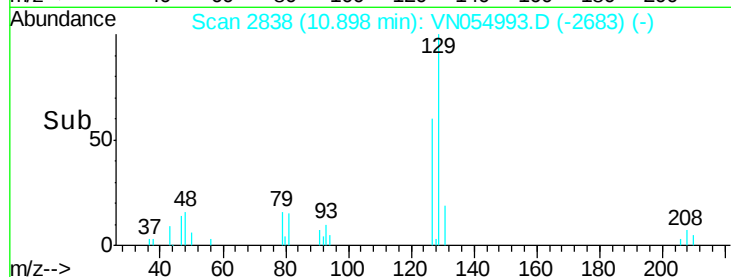
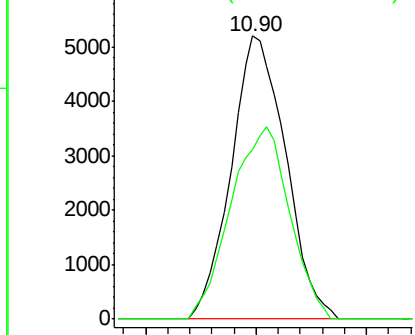
Tot Ion	Ion	Ratio	Resp	Lower	Upper
129	100		8909		
127	73.2		37.8	113.3	

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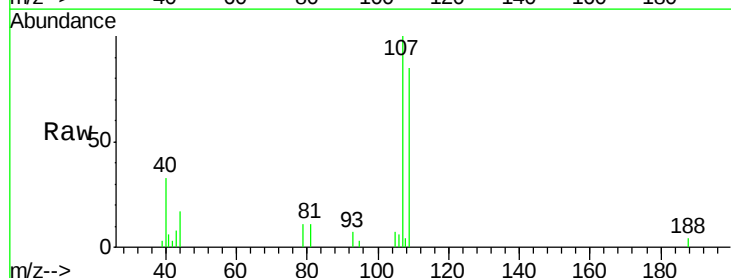


Abundance Ion 129.00 (128.70 to 129.70): V
 Ion 127.00 (126.70 to 127.70): V

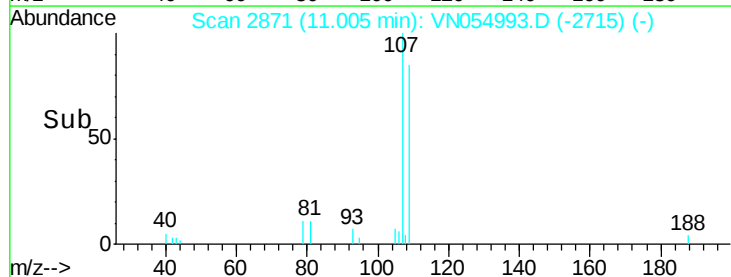
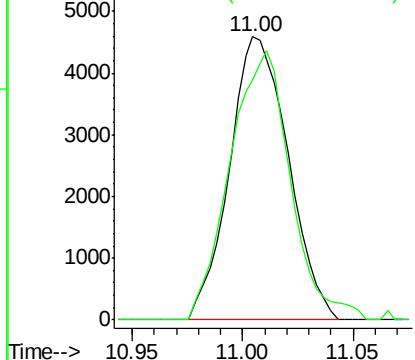


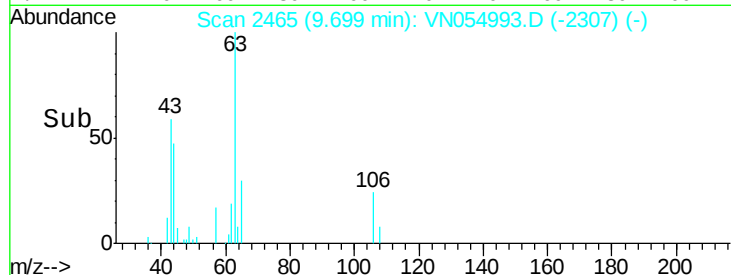
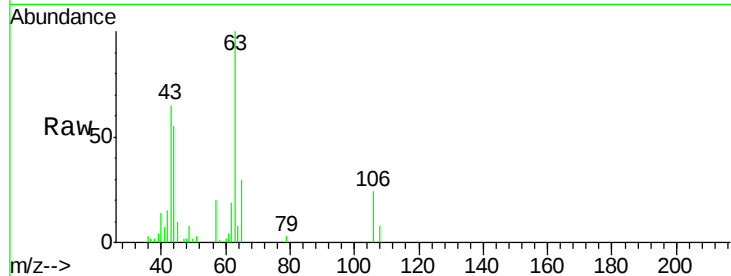
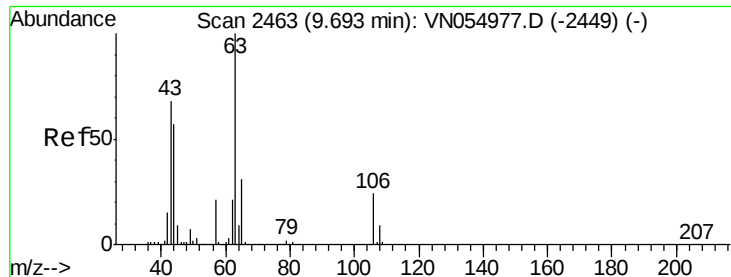
#54
 1,2-Dibromoethane
 Concen: 2.482 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
107	100		8496		
109	97.8		76.2	114.2	



Abundance Ion 107.00 (106.70 to 107.70): V
 Ion 109.00 (108.70 to 109.70): V





#55

2-Chloroethyl vinyl ether

Concen: 11.164 ug/l

RT: 9.70 min Scan# 2465

Delta R.T. 0.01 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Tot Ion:	63	Resp:	20288
Ion Ratio	Lower	Upper	
63	100		
65	31.6	25.4	38.0
106	23.6	19.8	29.6

Instrument :

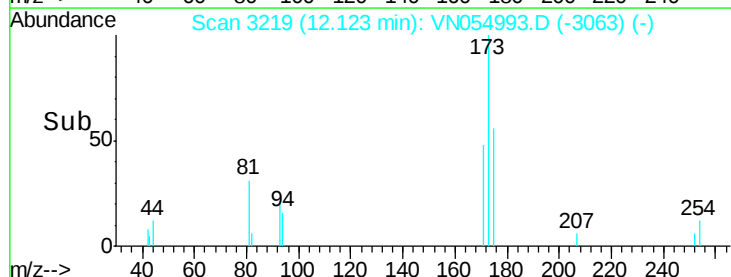
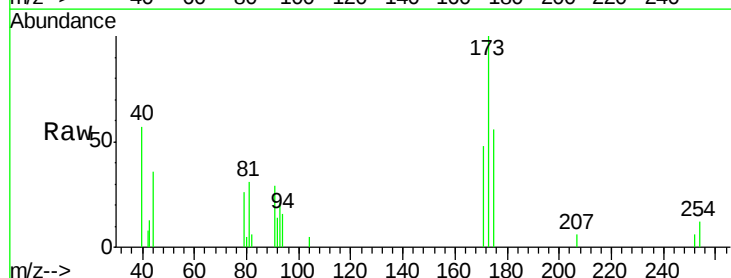
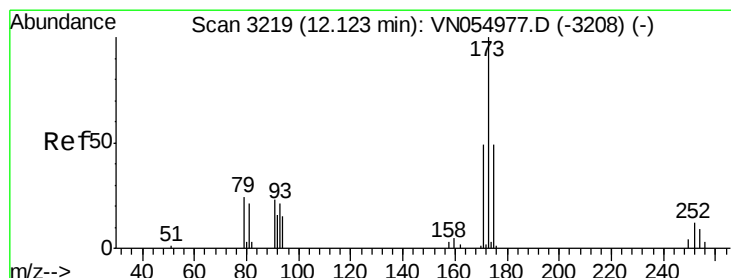
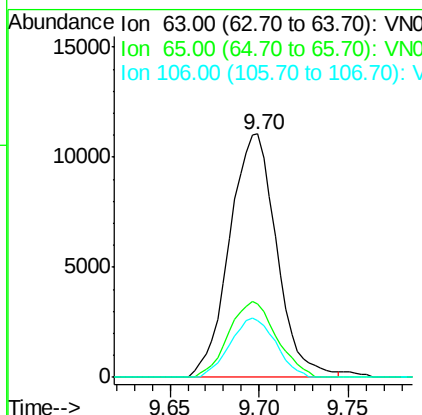
MSVOA_N

ClientSampleId :

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#56

Bromoform

Concen: 2.032 ug/l

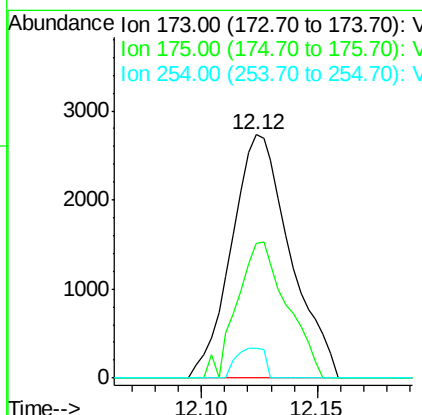
RT: 12.12 min Scan# 3219

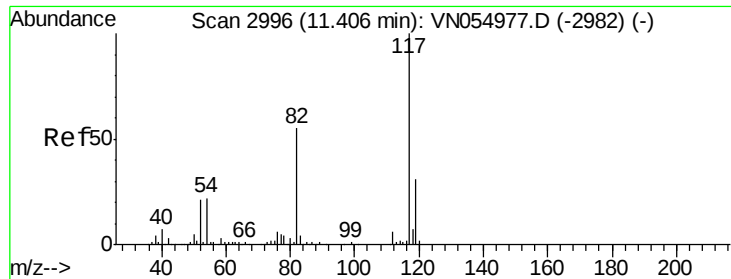
Delta R.T. 0.00 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Tgt Ion:	173	Resp:	4797
Ion Ratio	Lower	Upper	
173	100		
175	46.2	38.6	57.8
254	6.0	6.8	10.2#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Instrument :

MSVOA_N

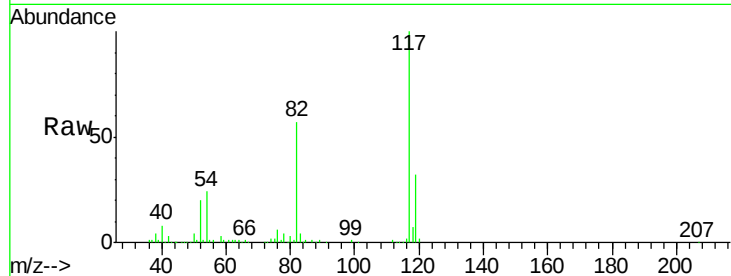
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:	117	Resp:	308540
Ion Ratio	Lower	Upper	
117	100		
82	56.9	45.2	67.8
119	32.7	25.4	38.2

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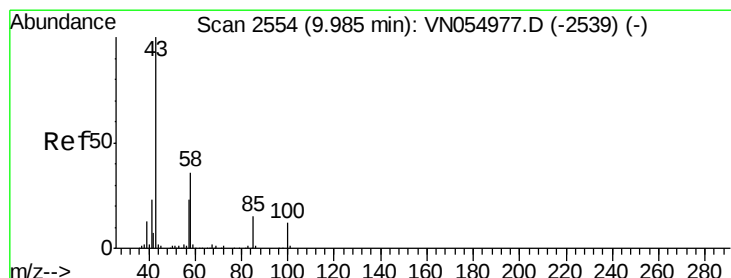
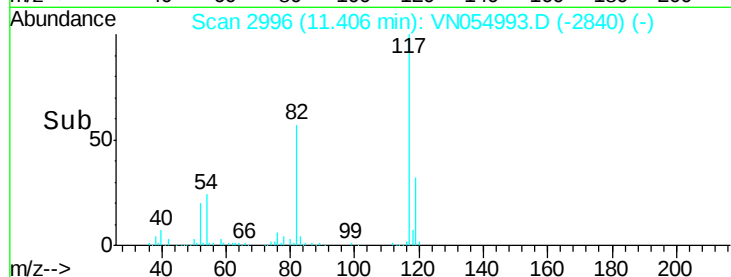
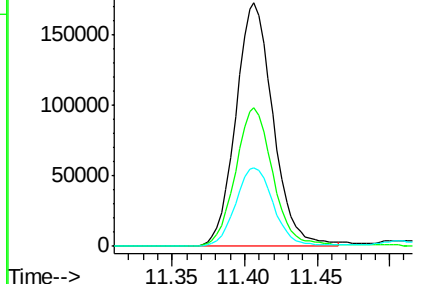
MMDadoda
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 82.00 (81.70 to 82.70): V

Ion 119.00 (118.70 to 119.70): V



#58

4-Methyl-2-Pentanone

Concen: 14.202 ug/l

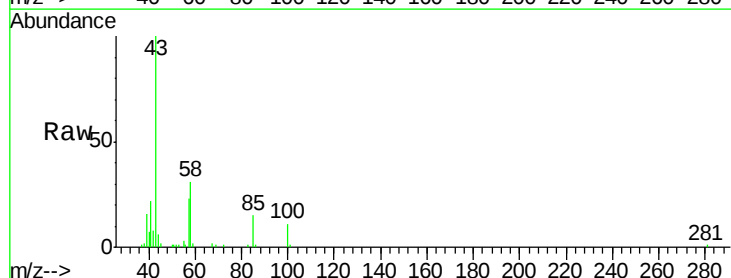
RT: 9.99 min Scan# 2555

Delta R.T. 0.00 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

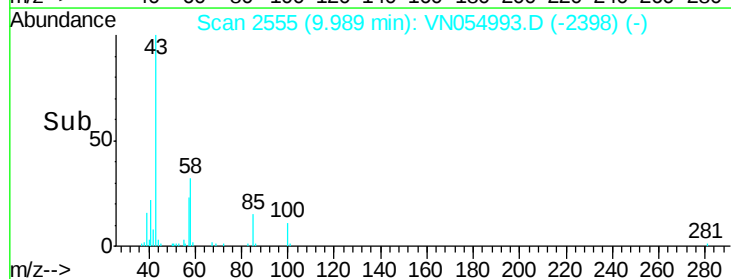
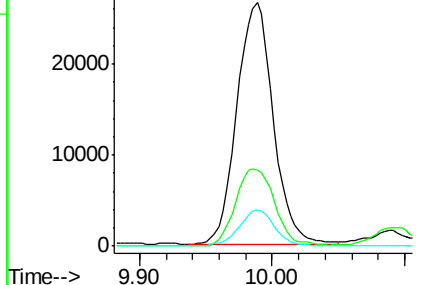
Tgt Ion:	43	Resp:	50534
Ion Ratio	Lower	Upper	
43	100		
58	34.5	28.7	43.1
85	14.5	11.8	17.6

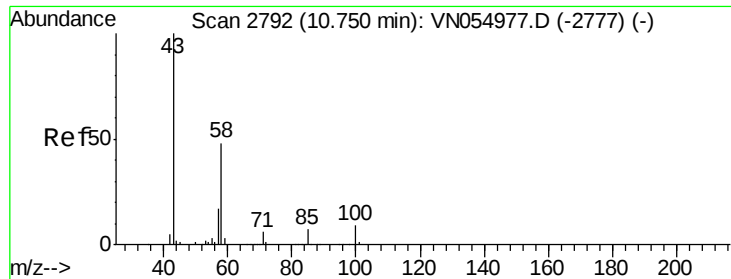


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 58.00 (57.70 to 58.70): V

Ion 85.00 (84.70 to 85.70): V





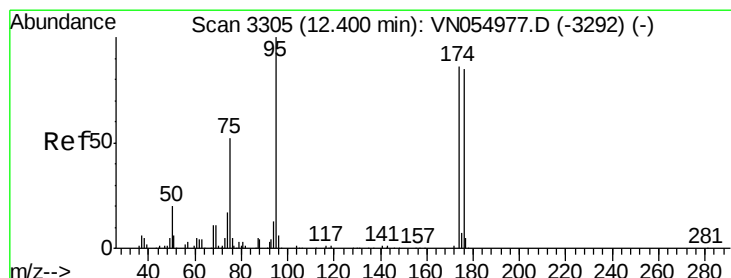
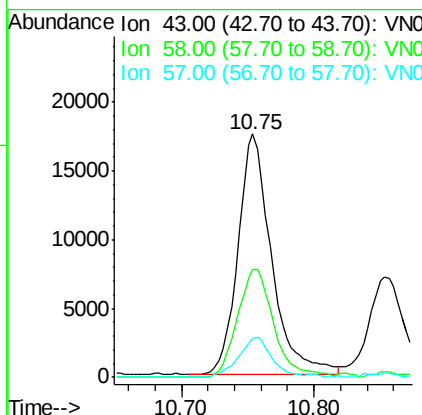
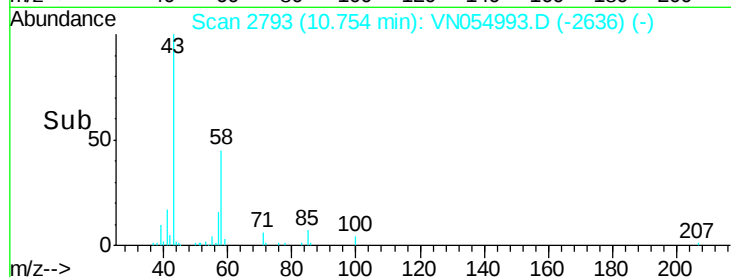
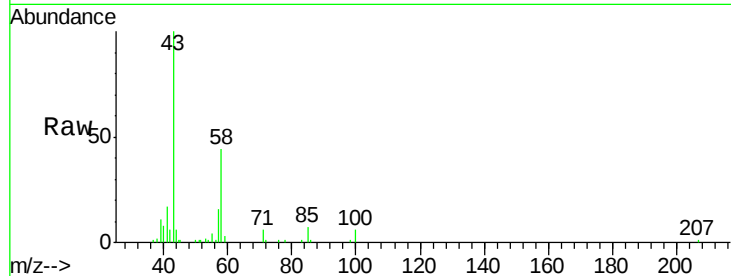
#59
2-Hexanone
Concen: 13.726 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

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

Tot Ion	Ratio	Lower	Upper
43	100		
58	48.1	38.8	58.2
57	16.3	13.8	20.6

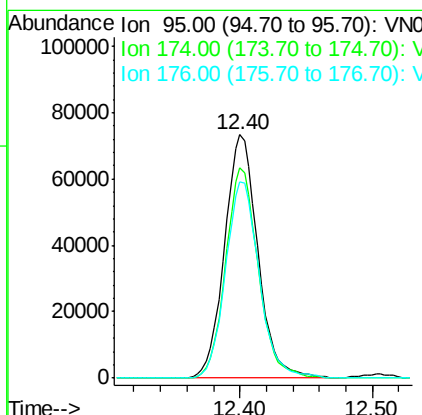
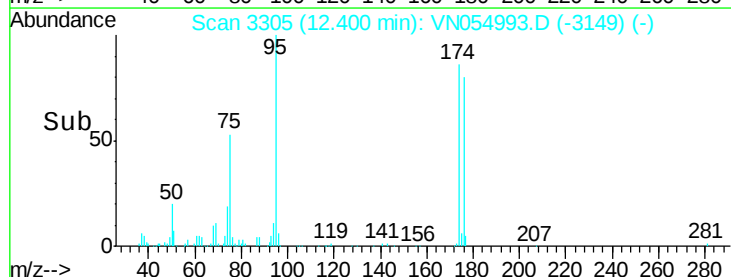
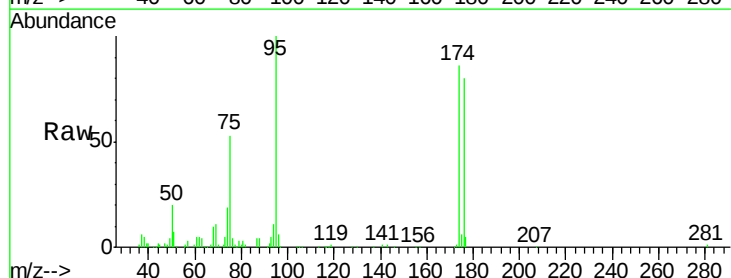
Manual Integrations
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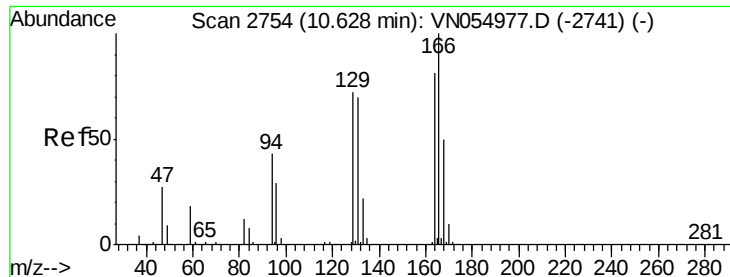
MMDadoda
4/17/2019 9:35:41 AM



#60
4-Bromofluorobenzene
Concen: 13.726 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

Tgt Ion	Ratio	Lower	Upper
95	100		
174	84.5	69.4	104.2
176	81.6	67.4	101.2





#61

Tetrachloroethene

Concen: 2.810 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.00 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion:164 Resp: 11282

Ion Ratio Lower Upper

164 100

166 128.2 99.0 148.4

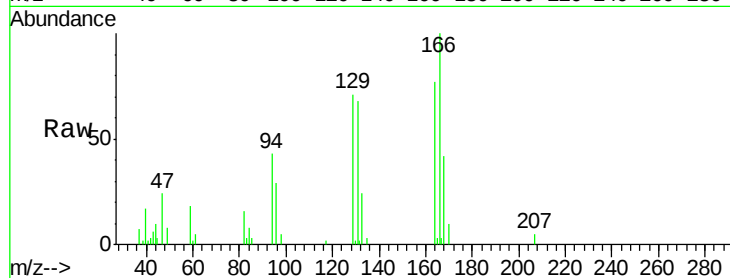
129 92.2 71.4 107.0

131 88.8 68.8 103.2

Manual Integrations
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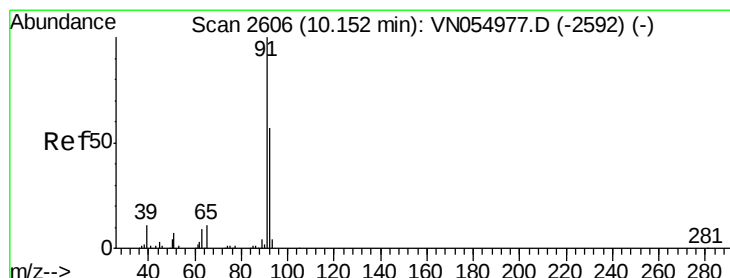
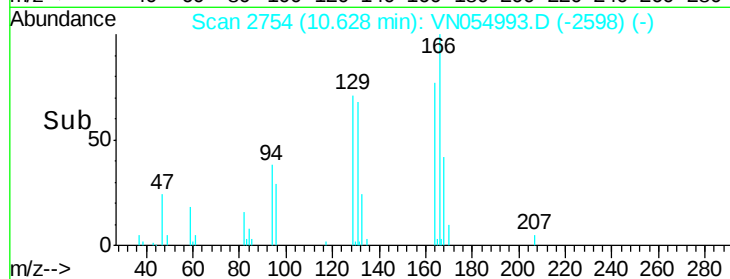
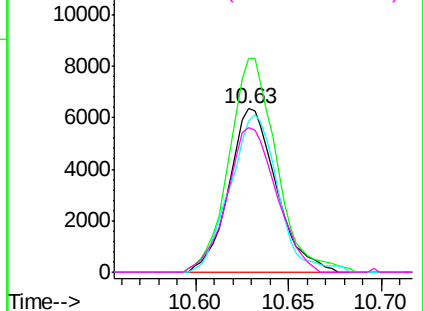


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 2.863 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN054993.D

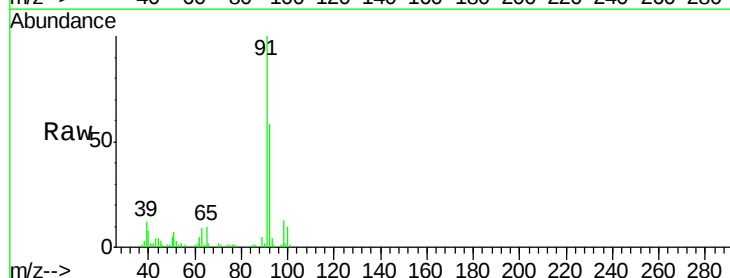
Acq: 12 Apr 2019 12:09

Tgt Ion: 91 Resp: 48668

Ion Ratio Lower Upper

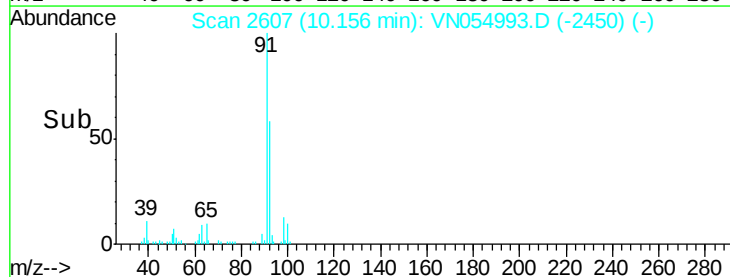
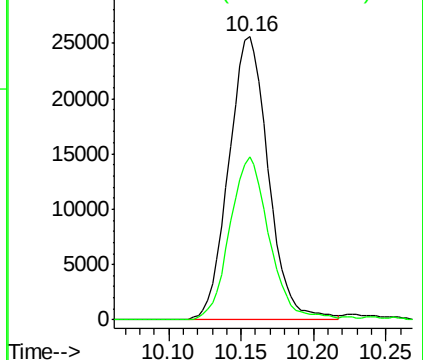
91 100

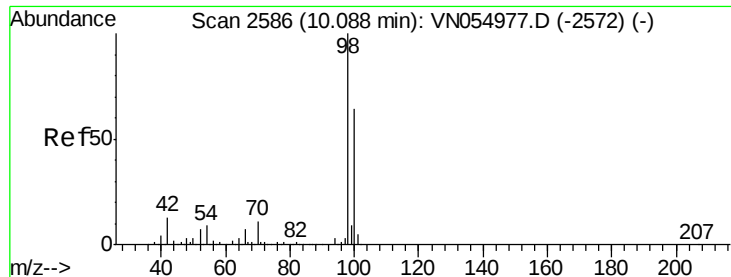
92 57.2 44.8 67.2



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 92.00 (91.70 to 92.70): V





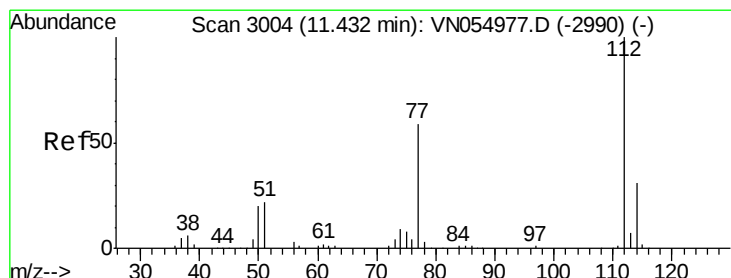
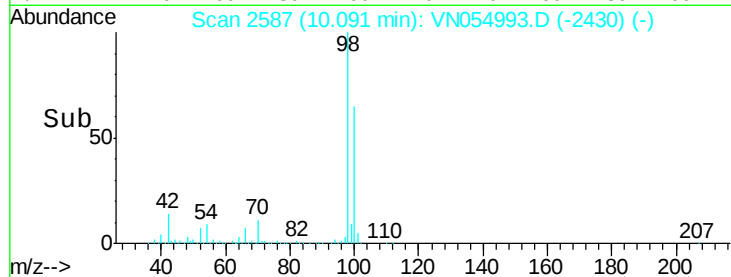
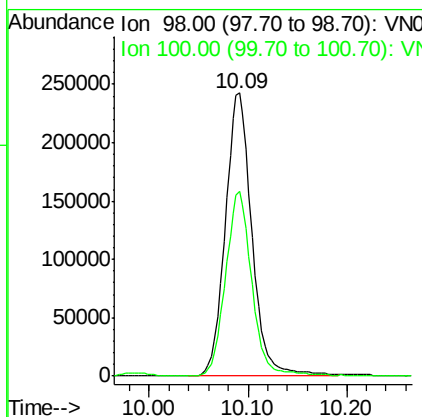
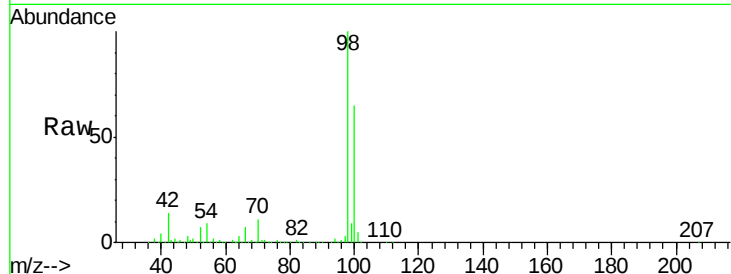
#63
Toluene-d8
Concen: 2.863 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

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

Tot Ion: 98 Resp: 458740
Ion Ratio Lower Upper
98 100
100 64.4 51.1 76.7

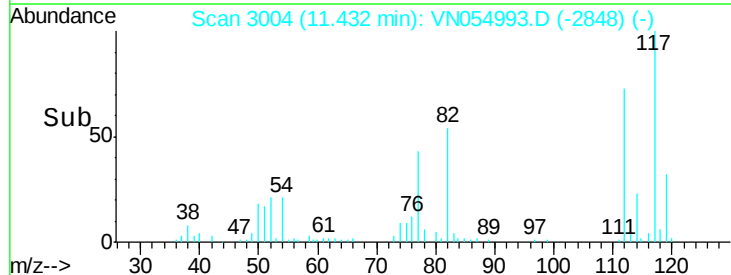
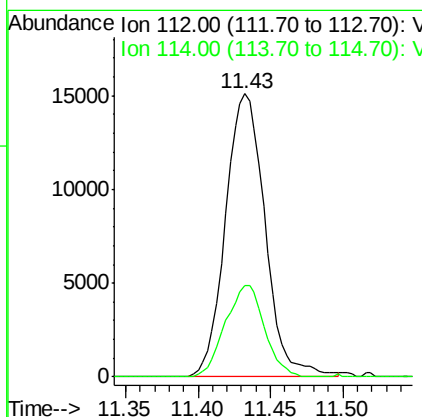
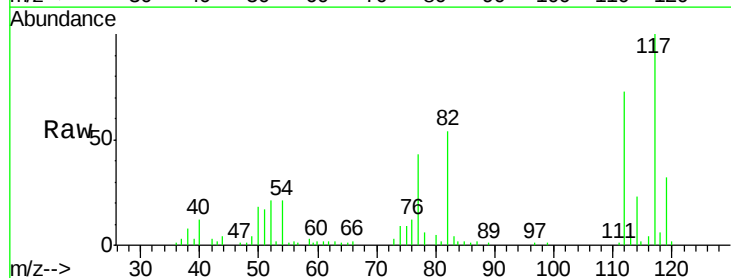
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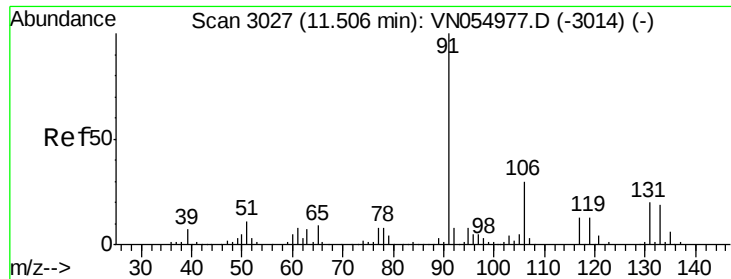
MMDadoda
4/17/2019 9:35:41 AM



#64
Chlorobenzene
Concen: 2.788 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

Tgt Ion: 112 Resp: 28611
Ion Ratio Lower Upper
112 100
114 32.1 25.1 37.7





#65

1,1,1,2-Tetrachloroethane

Concen: 2.637 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Instrument :

MSVOA_N

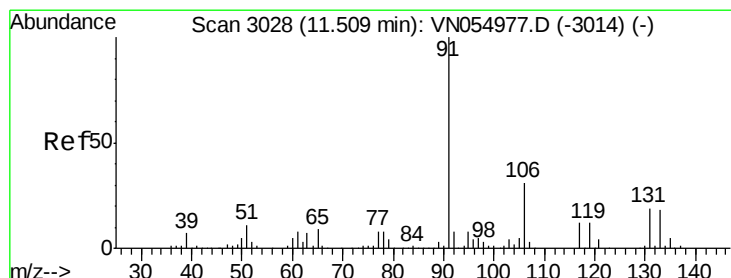
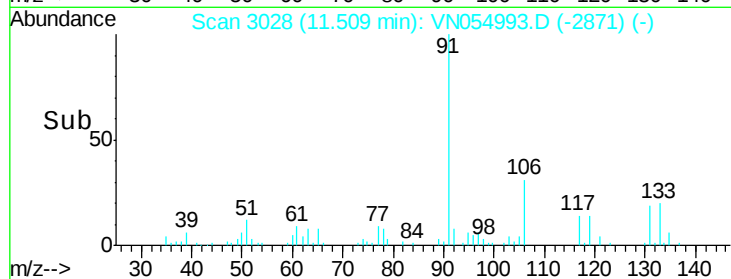
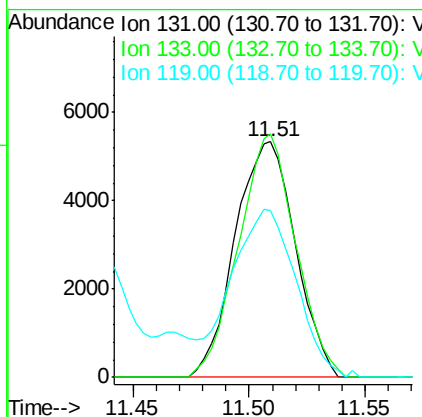
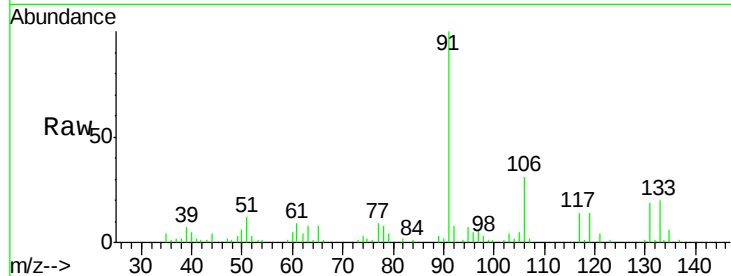
ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion	Ratio	Lower	Upper
131	100		
133	98.3	0.0	187.8
119	77.1	0.0	131.4

Manual Integrations
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#66

Ethyl Benzene

Concen: 2.630 ug/l

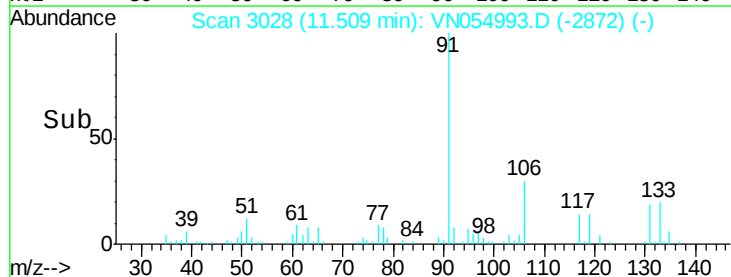
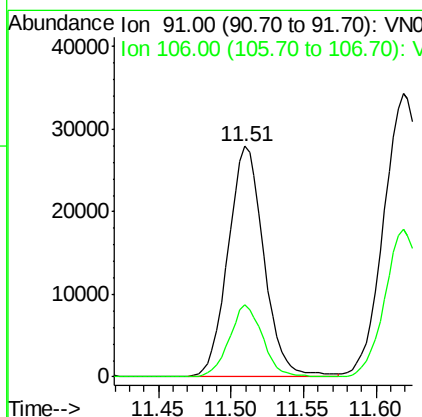
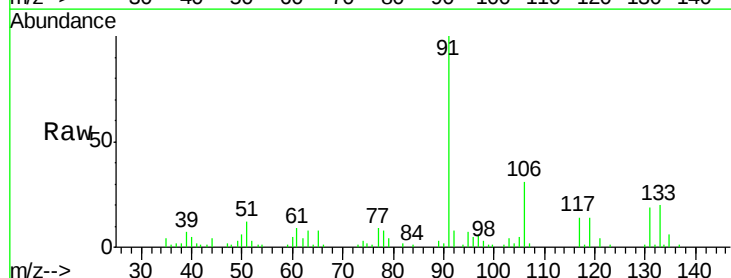
RT: 11.51 min Scan# 3028

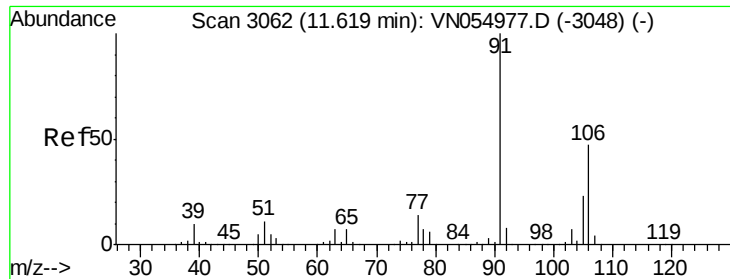
Delta R.T. 0.00 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.1	24.6	36.8





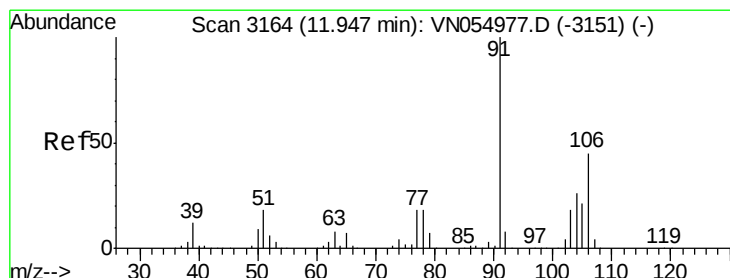
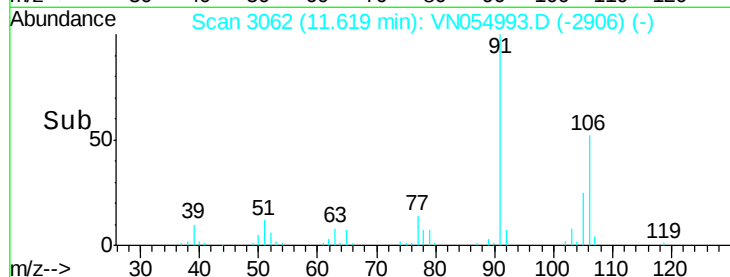
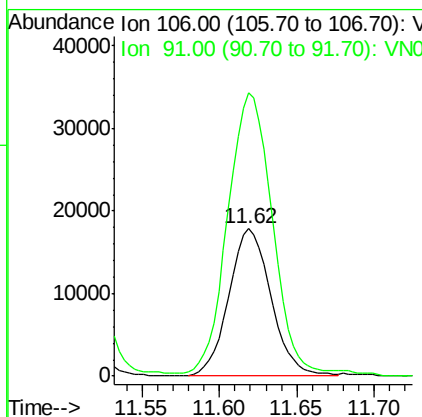
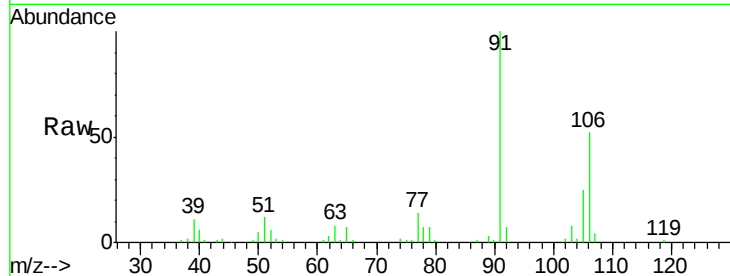
#67
m/p-Xylenes
Concen: 5.003 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

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

Tot Ion:106 Resp: 33890
Ion Ratio Lower Upper
106 100
91 198.5 167.4 251.2

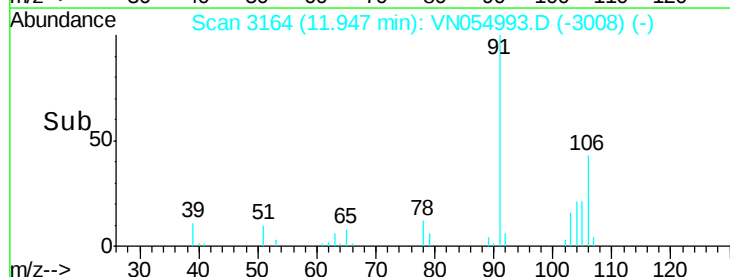
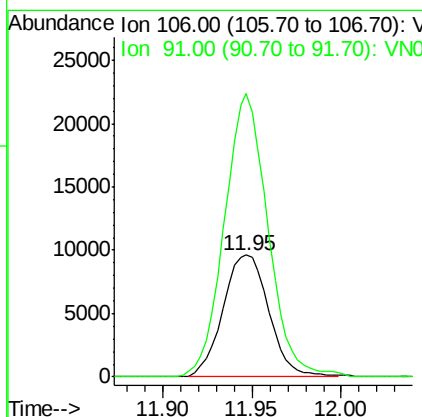
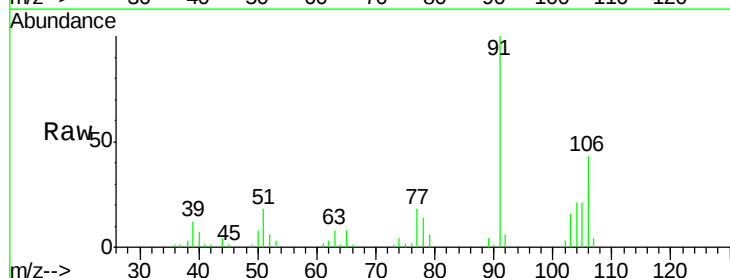
Manual Integrations
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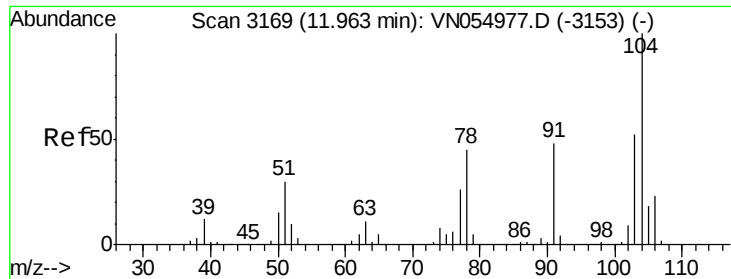
MMDadoda
4/17/2019 9:35:41 AM



#68
o-Xylene
Concen: 2.570 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

Tgt Ion:106 Resp: 17205
Ion Ratio Lower Upper
106 100
91 219.8 110.3 330.8





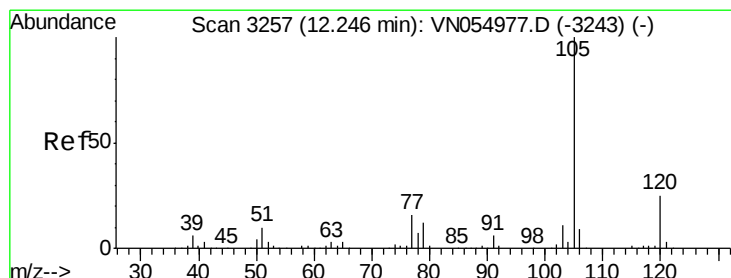
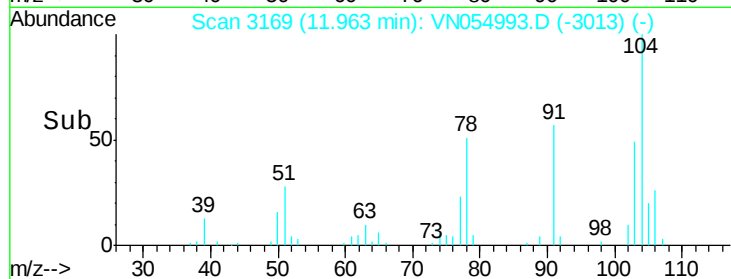
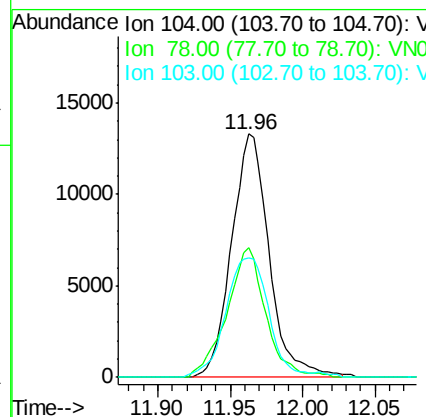
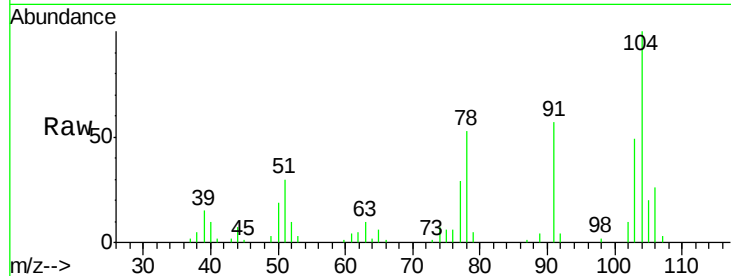
#69
Stvrene
Concen: 2.304 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

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

Tot Ion	Ratio	Lower	Upper
104	100		
78	54.4	41.2	61.8
103	56.1	44.6	67.0

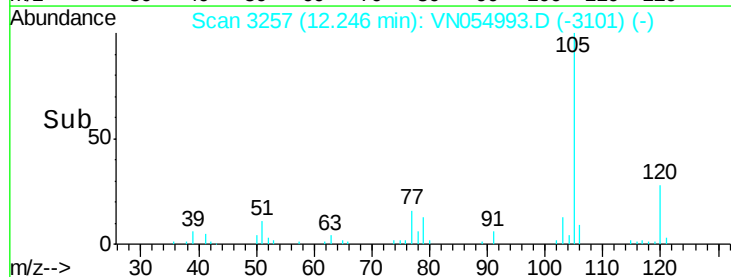
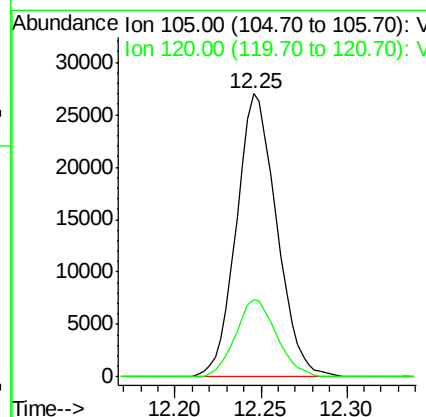
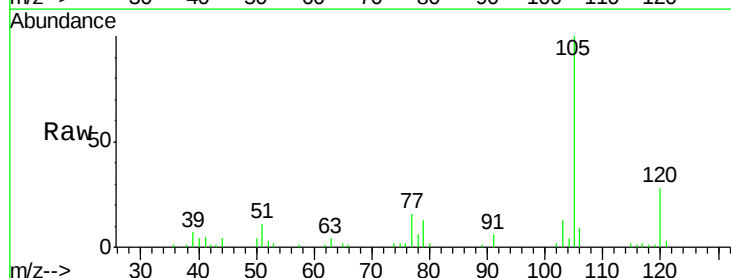
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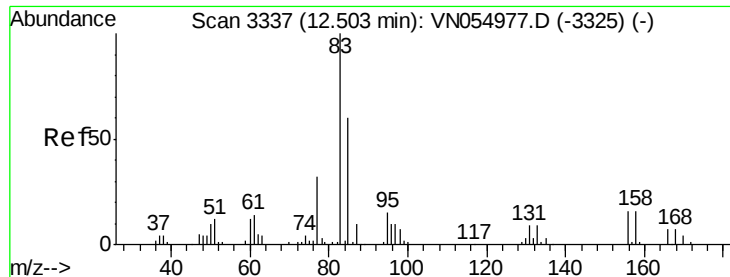
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#70
Isopropylbenzene
Concen: 2.458 ug/l
RT: 12.25 min Scan# 3257
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.7	18.3	33.9





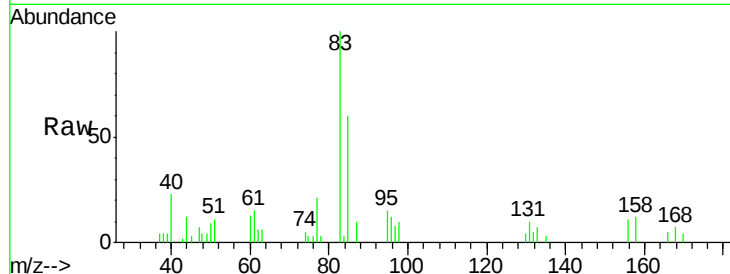
#71
 1,1,2,2-Tetrachloroethane
 Concen: 2.952 ug/l
 RT: 12.50 min Scan# 3337
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

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

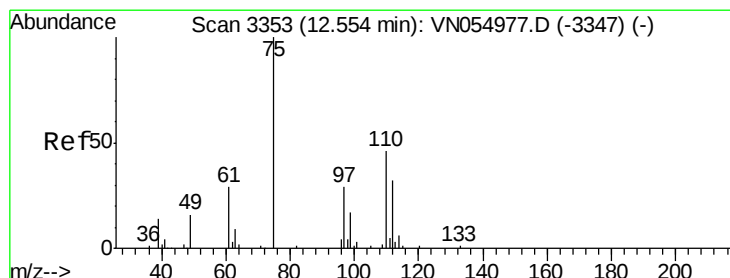
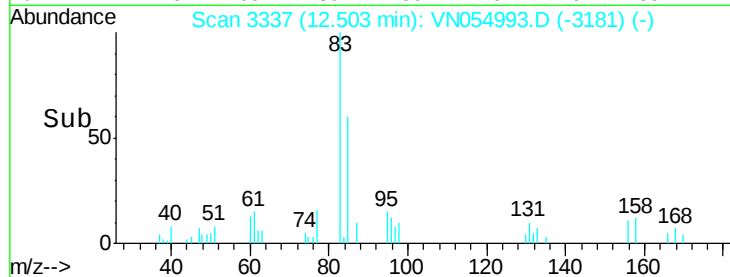
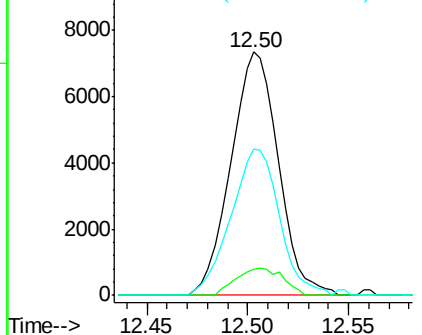
Tot Ion	83	Resp	12086
Ion Ratio	100	Lower	Upper
83	100		
131	10.9	4.6	13.8
85	61.6	30.9	92.5

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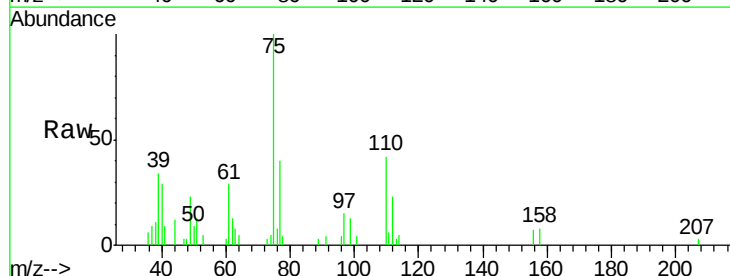


Abundance Ion 83.00 (82.70 to 83.70): VN054993.D (-3181) (-)
 Ion 131.00 (130.70 to 131.70): VN054993.D (-3181) (-)
 Ion 85.00 (84.70 to 85.70): VN054993.D (-3181) (-)

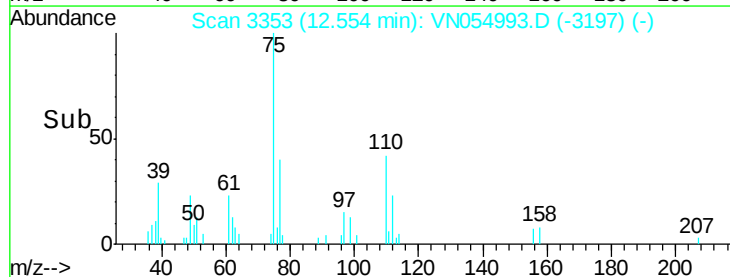
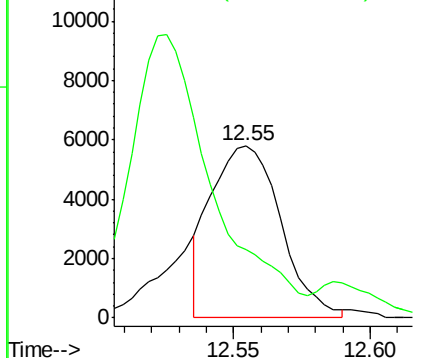


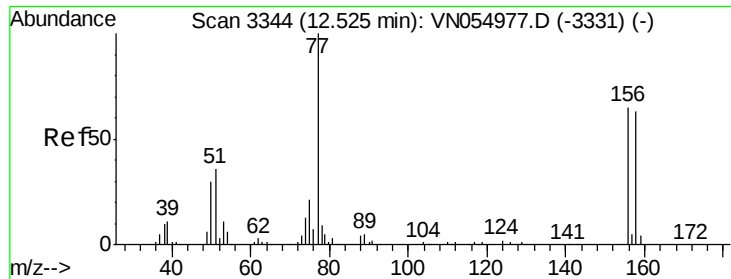
#72
 1,2,3-Trichloropropane
 Concen: 3.067 ug/l m
 RT: 12.55 min Scan# 3353
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

Tgt Ion	75	Resp	10368
Ion Ratio	100	Lower	Upper
75	100		
77	196.3	0.0	466.6



Abundance Ion 75.00 (74.70 to 75.70): VN054993.D (-3197) (-)
 Ion 77.00 (76.70 to 77.70): VN054993.D (-3197) (-)





#73

Bromobenzene

Concen: 2.581 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Instrument :

MSVOA_N

ClientSampleId :

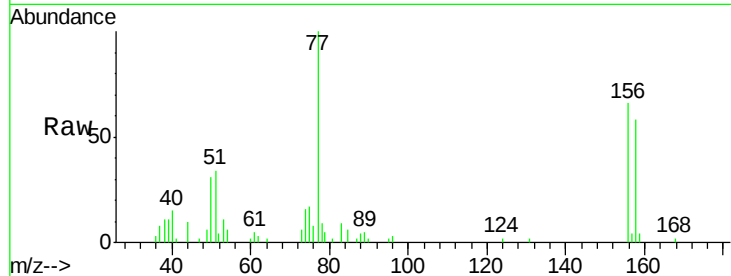
MDL-MDL-WATER-03-QT2-2019

Tot Ion:156 Resp: 10920

Ion	Ratio	Lower	Upper
156	100		
77	186.4	0.0	383.2
158	92.3	0.0	193.8

Manual Integrations
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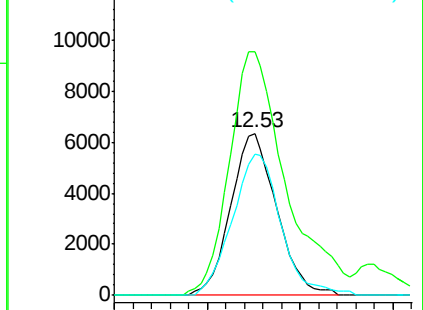
MMDadoda
4/17/2019 9:35:41 AM



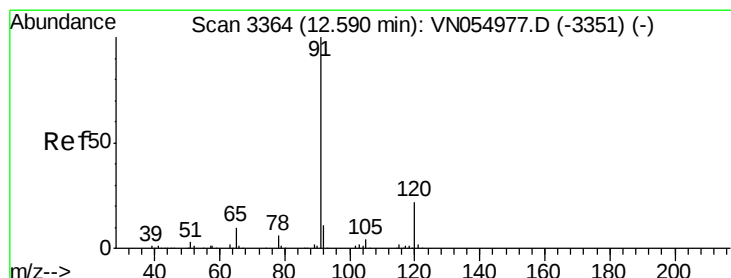
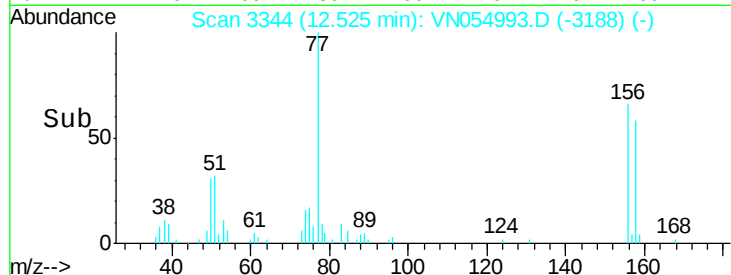
Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN

Ion 158.00 (157.70 to 158.70): V



Time--> 12.45 12.50 12.55



#74

n-propylbenzene

Concen: 2.210 ug/l

RT: 12.59 min Scan# 3364

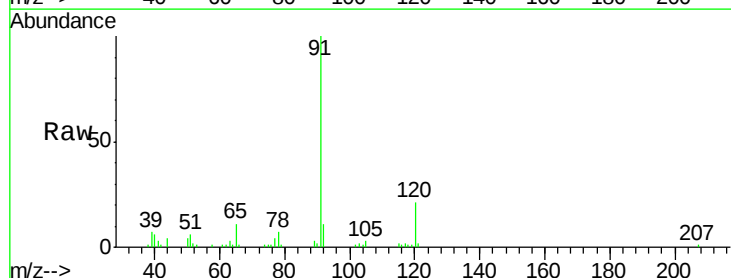
Delta R.T. 0.00 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

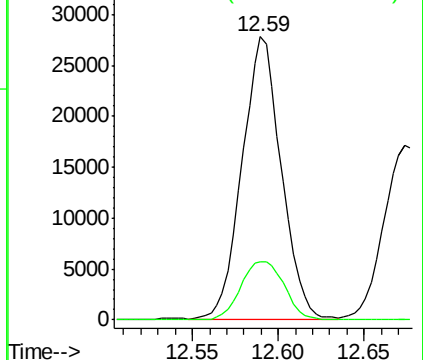
Tgt Ion: 91 Resp: 44272

Ion	Ratio	Lower	Upper
91	100		
120	22.6	0.0	44.4

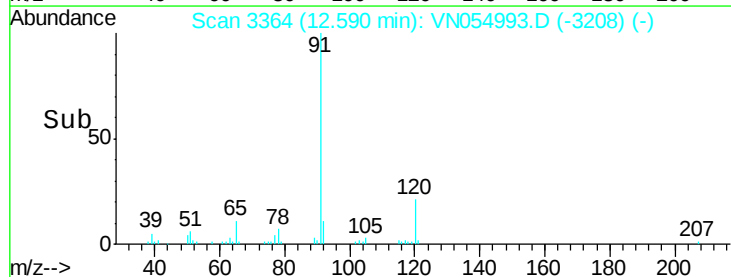


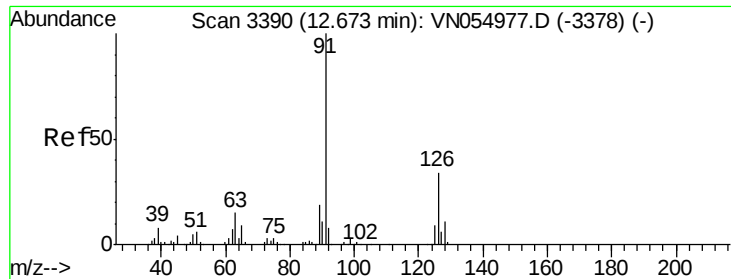
Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V



Time--> 12.55 12.60 12.65





#75

2-Chlorotoluene

Concen: 2.467 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN054993.D

Acq: 12 Apr 2019 12:09

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT2-2019

Tot Ion: 91 Resp: 29808

Ion Ratio Lower Upper

91 100

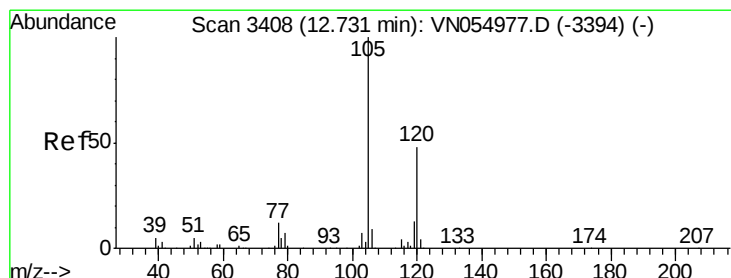
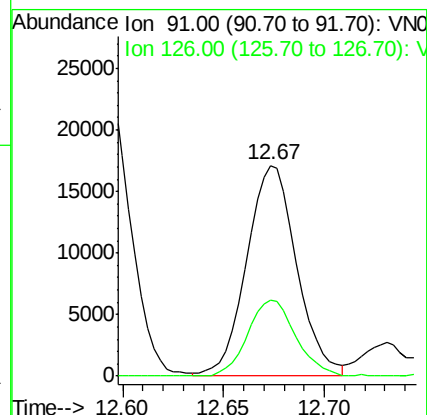
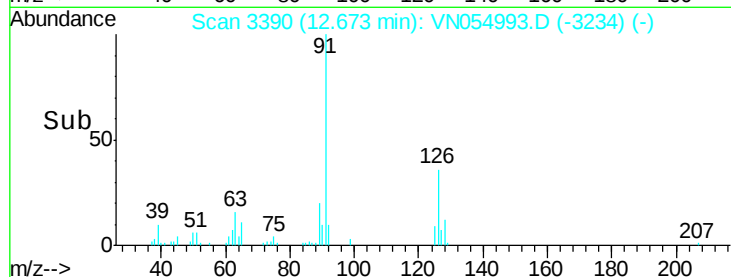
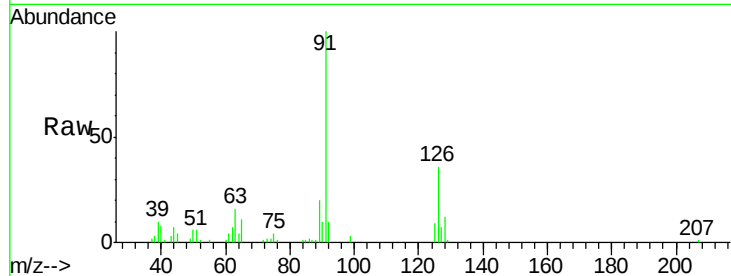
126 34.4 0.0 67.4

Manual Integrations

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#76

1,3,5-Trimethylbenzene

Concen: 2.395 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN054993.D

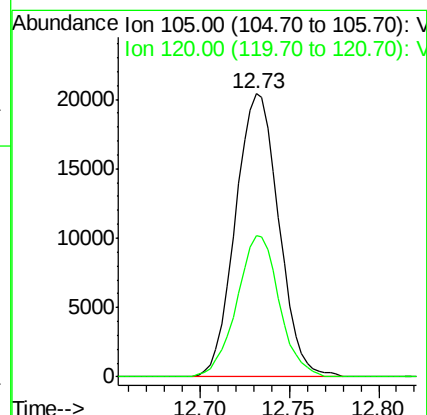
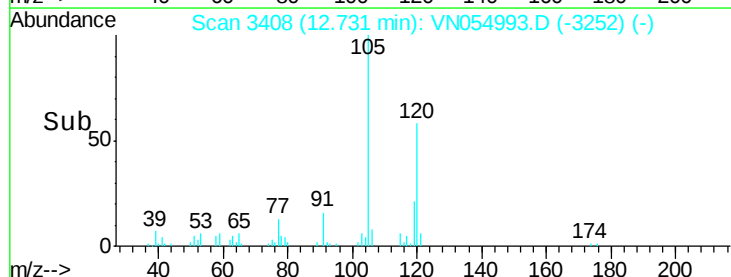
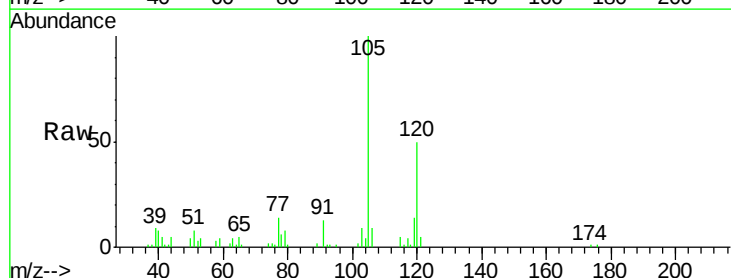
Acq: 12 Apr 2019 12:09

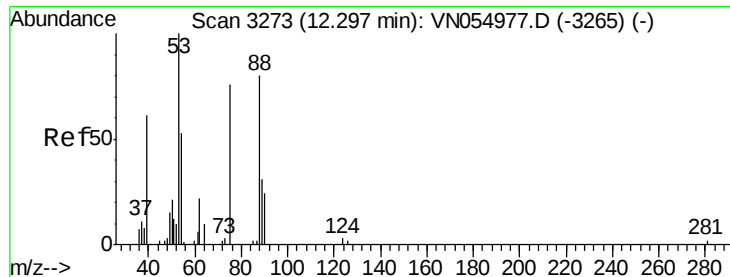
Tgt Ion: 105 Resp: 34649

Ion Ratio Lower Upper

105 100

120 48.8 0.0 94.8





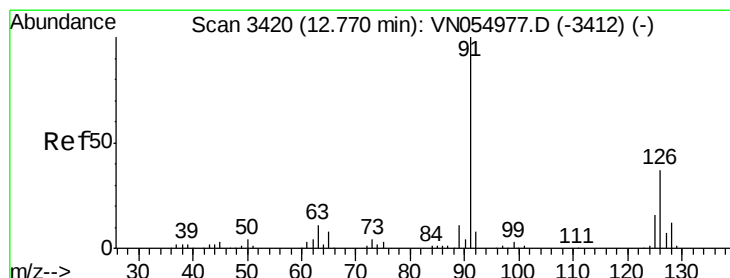
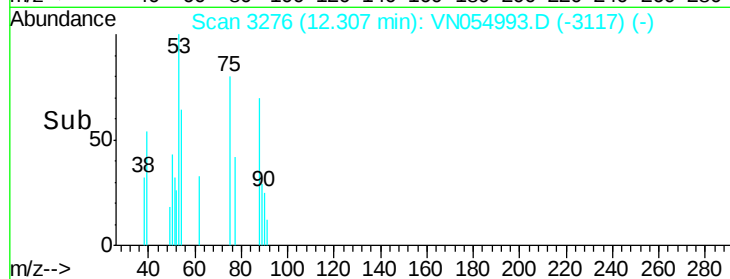
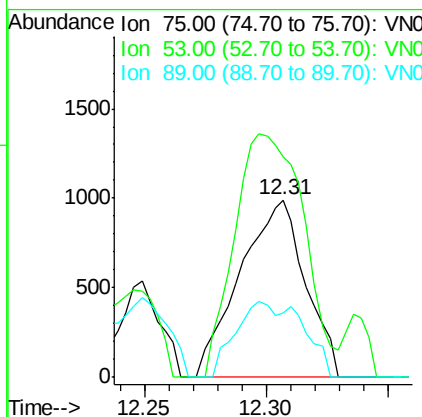
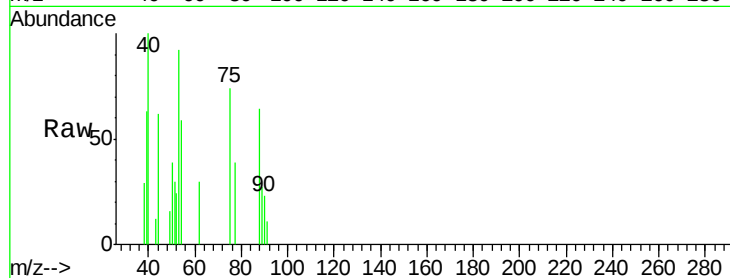
#77
t-1,4-Dichloro-2-butene
Concen: 2.163 ug/l
RT: 12.31 min Scan# 3276
Delta R.T. 0.01 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

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

Tot Ion	Ratio	Lower	Upper
75	100		
53	124.5	64.3	192.7
89	36.5	21.6	65.0

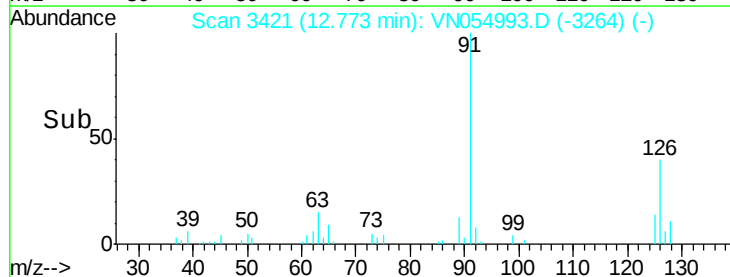
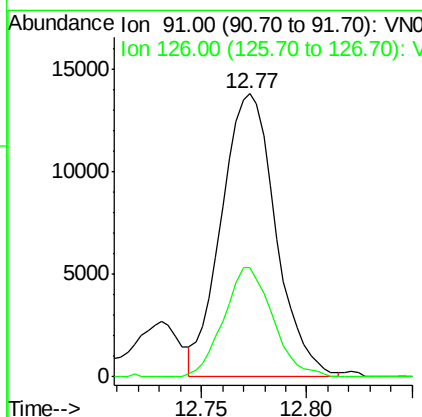
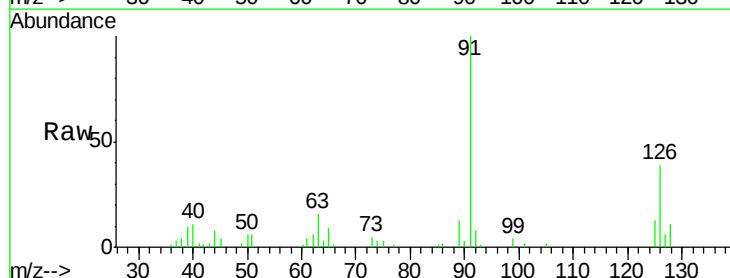
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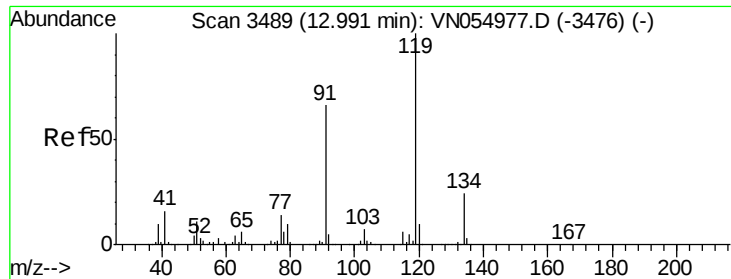
MMDadoda
4/17/2019 9:35:41 AM



#78
4-Chlorotoluene
Concen: 2.151 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.8	0.0	66.6





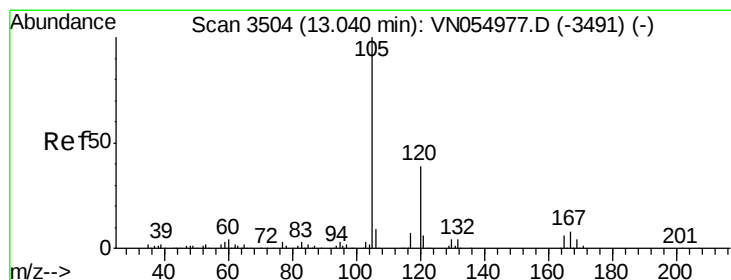
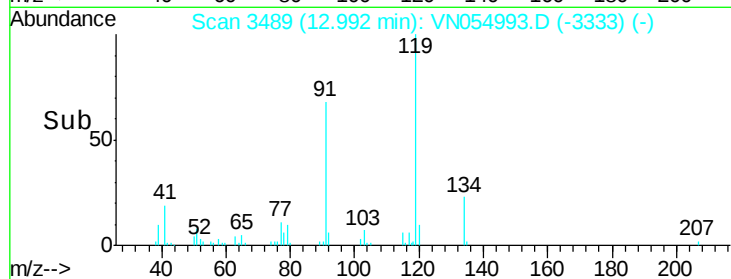
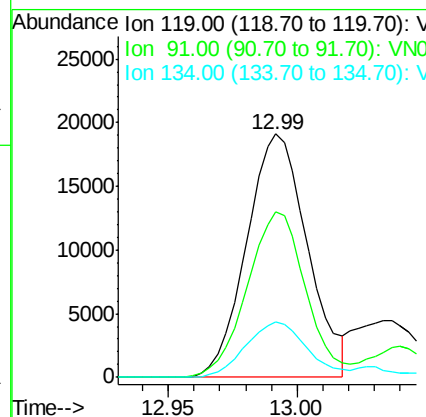
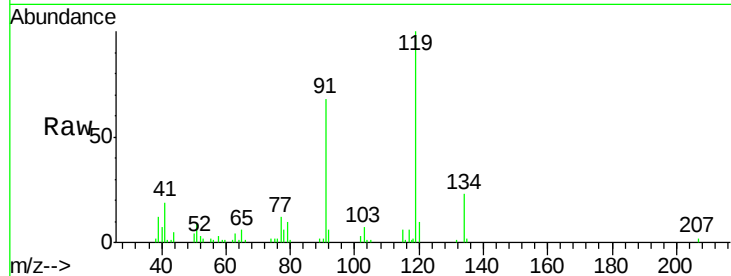
#79
tert-butylbenzene
Concen: 2.513 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

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

Tot Ion	Ratio	Resp	Lower	Upper
119	100	31466		
91	65.6	0.0	132.6	
134	23.1	0.0	47.6	

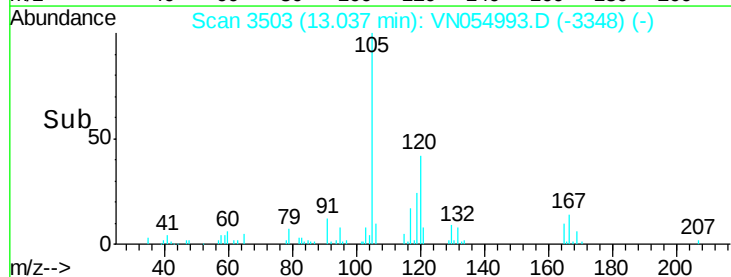
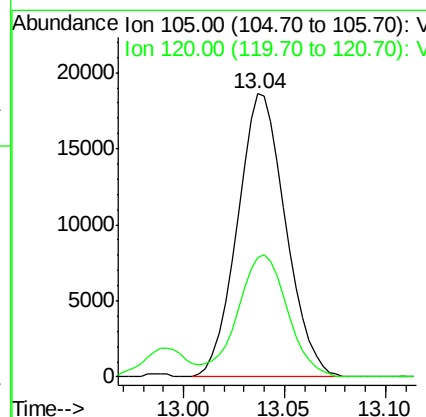
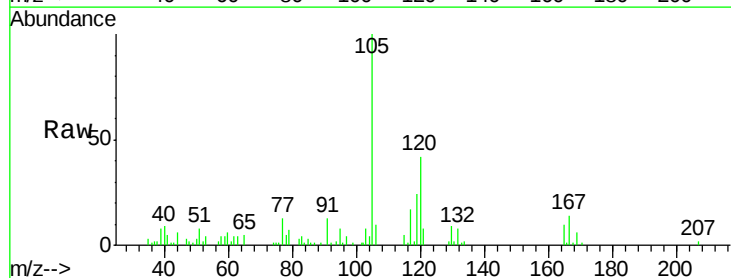
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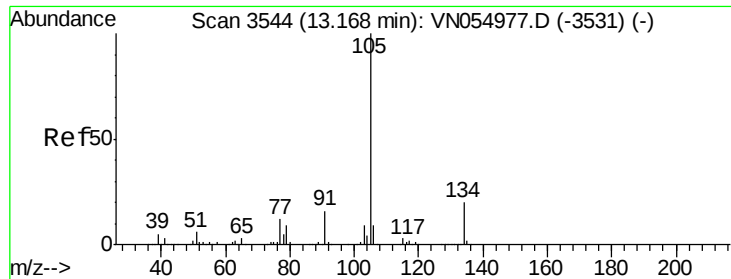
MMDadoda
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#80
1,2,4-Trimethylbenzene
Concen: 2.192 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	31155		
120	44.5	0.0	91.4	





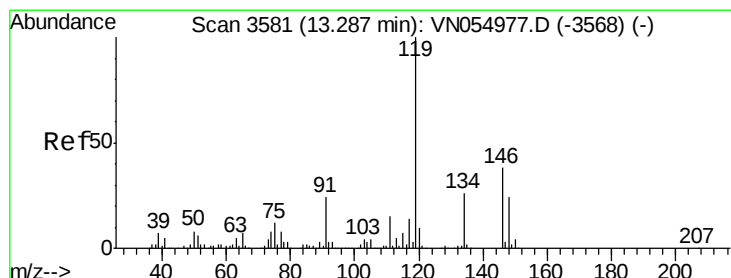
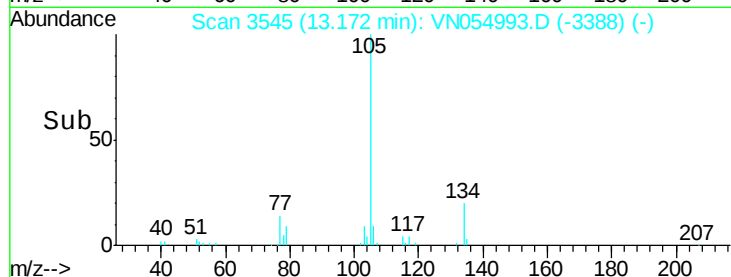
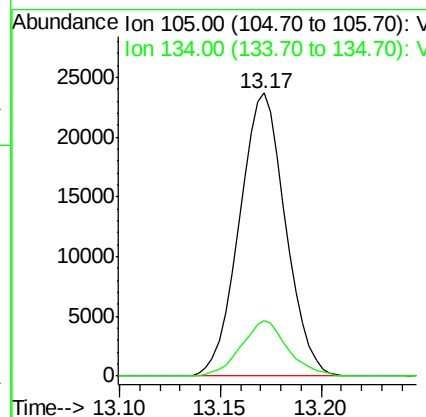
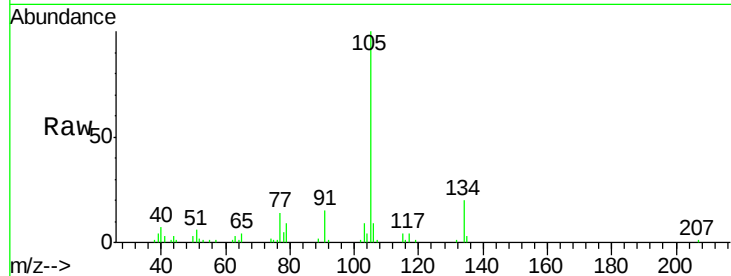
#81
 sec-Butylbenzene
 Concen: 2.272 ug/l
 RT: 13.17 min Scan# 3545
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

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

Tot Ion	Ratio	Lower	Upper
105	100		
134	19.6	0.0	40.0

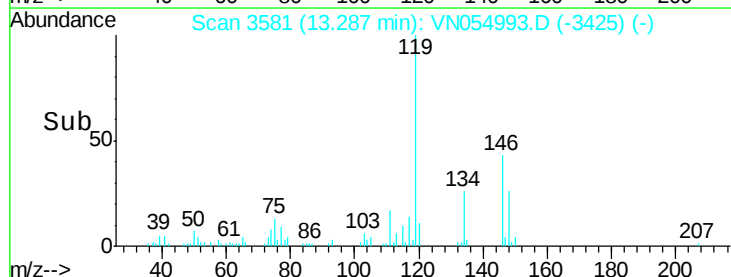
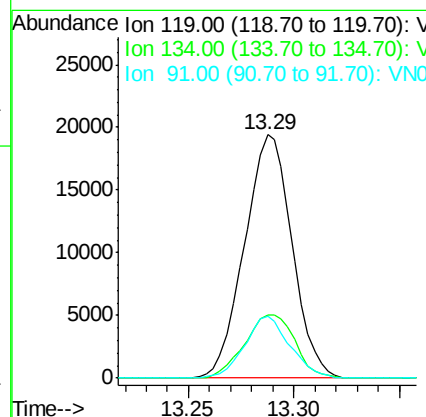
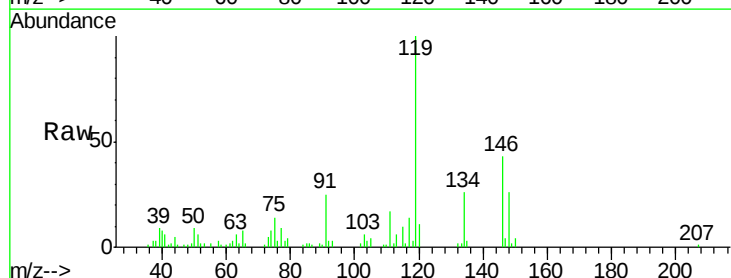
Manual Integrations
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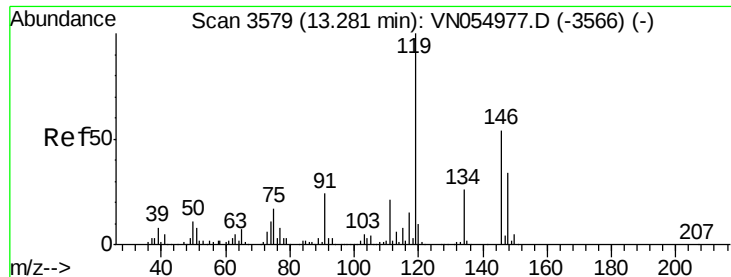
MMDadoda
 4/17/2019 9:35:41 AM



#82
 p-Isopropyltoluene
 Concen: 2.154 ug/l
 RT: 13.29 min Scan# 3581
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.5	0.0	53.2
91	24.2	0.0	47.8





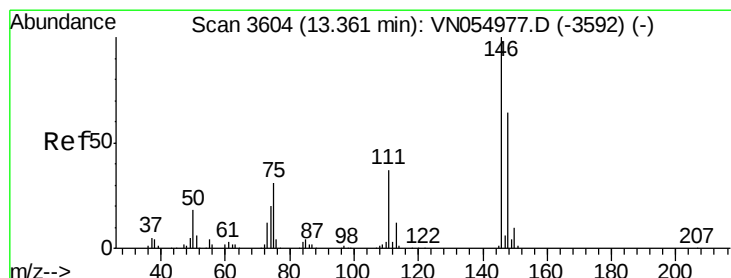
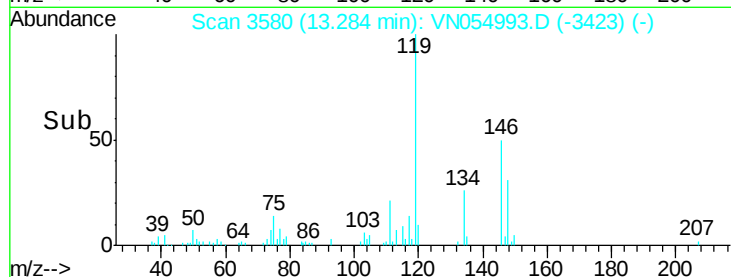
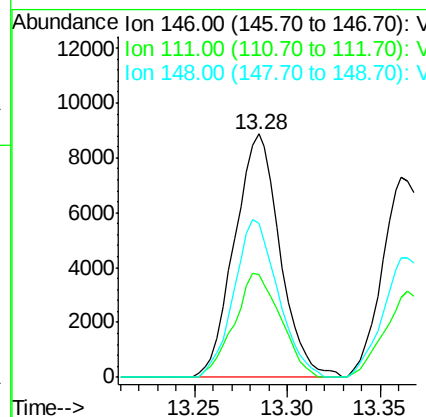
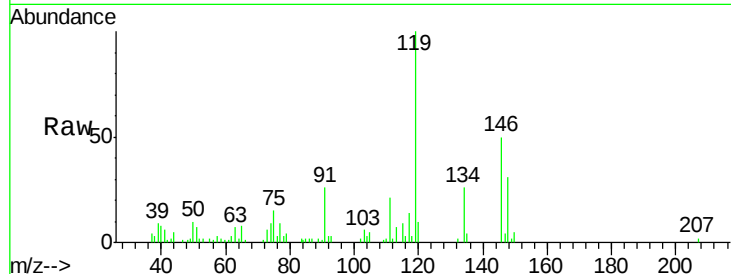
#83
1,3-Dichlorobenzene
Concen: 2.138 ug/l
RT: 13.28 min Scan# 3580
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.3	19.1	57.5
148	62.6	31.9	95.5

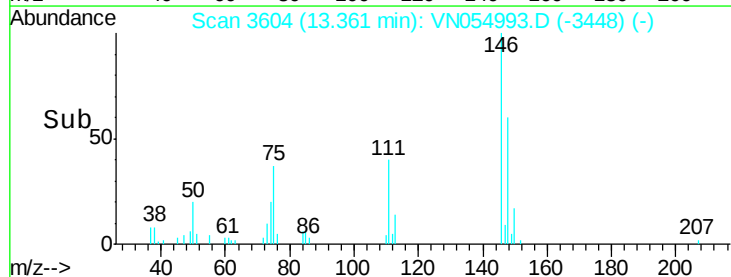
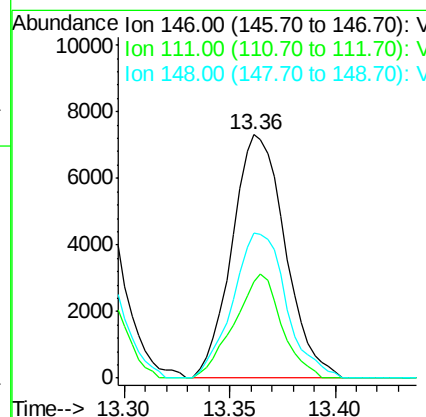
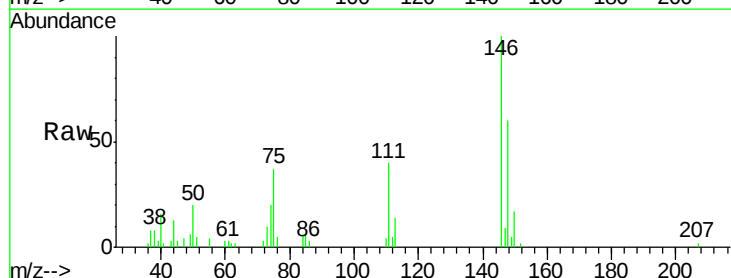
Manual Integrations
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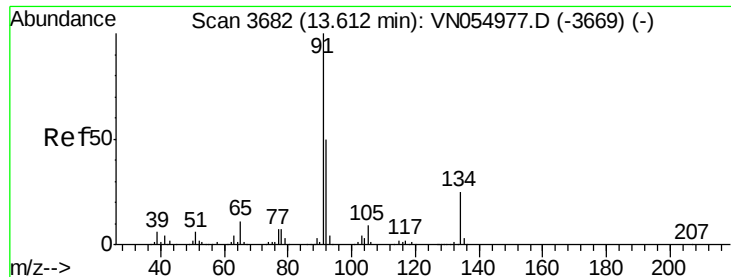
MMDadoda
4/17/2019 9:35:41 AM



#84
1,4-Dichlorobenzene
Concen: 1.903 ug/l
RT: 13.36 min Scan# 3604
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.0	18.4	55.2
148	60.2	32.5	97.4





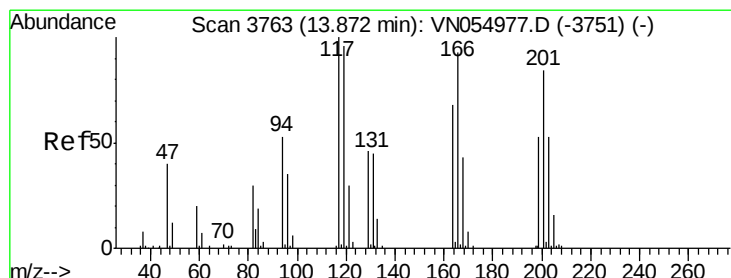
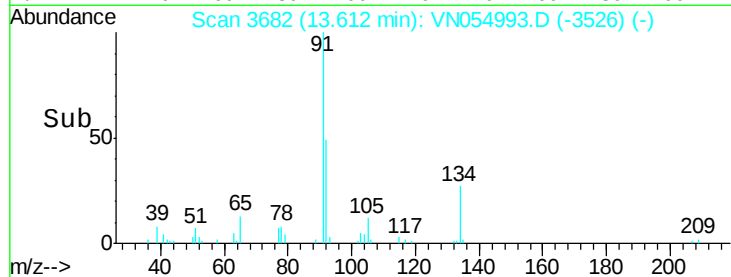
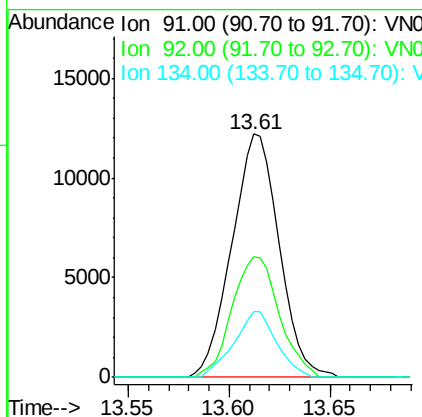
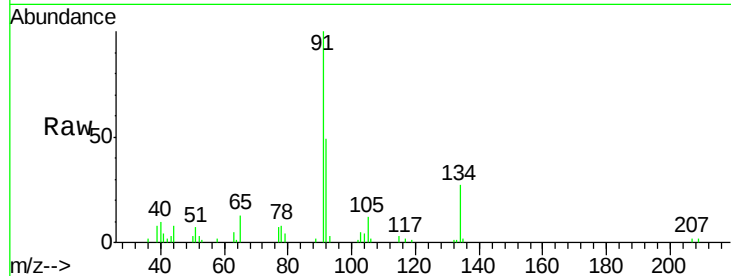
#85
n-Butylbenzene
Concen: 1.782 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

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

Tot Ion	Ratio	Lower	Upper
91	100		
92	49.4	0.0	101.4
134	24.4	0.0	49.8

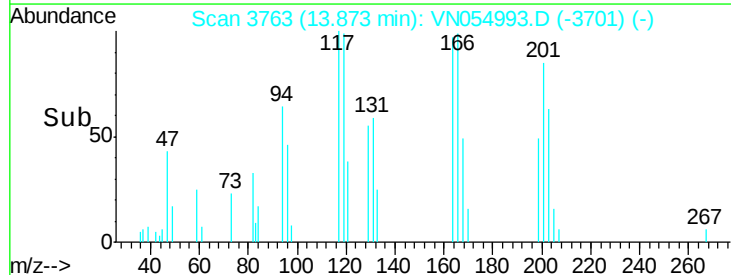
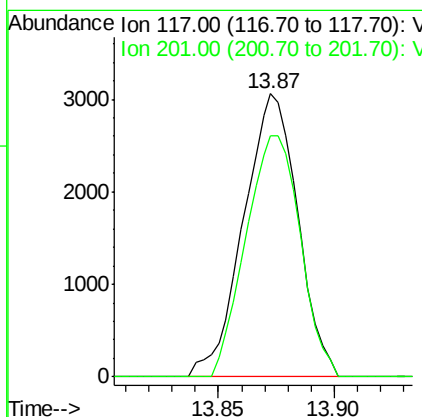
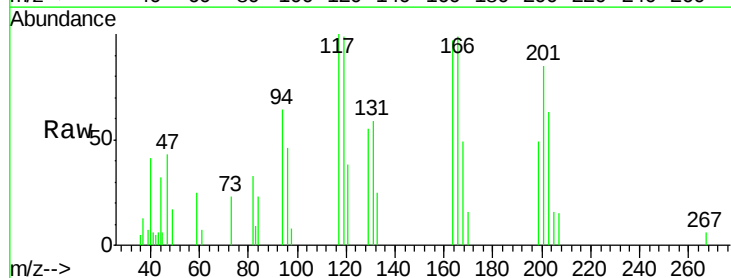
Manual Integrations
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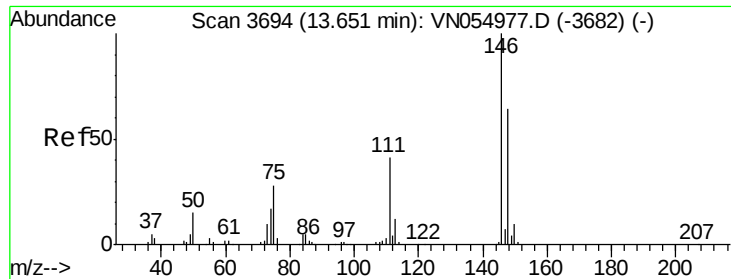
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#86
Hexachloroethane
Concen: 2.202 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

Tgt Ion	Ratio	Lower	Upper
117	100		
201	85.4	42.8	128.3





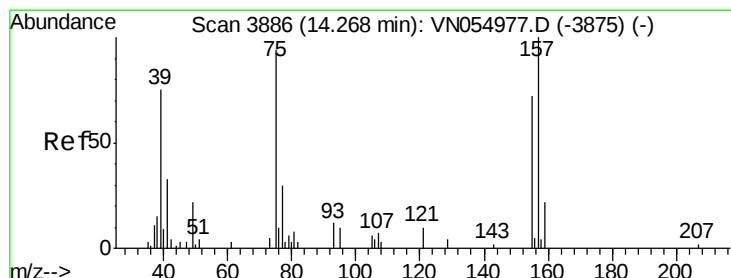
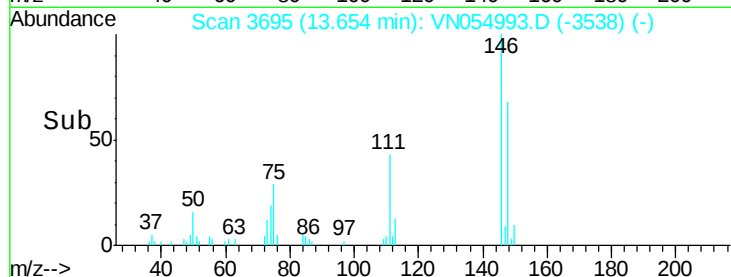
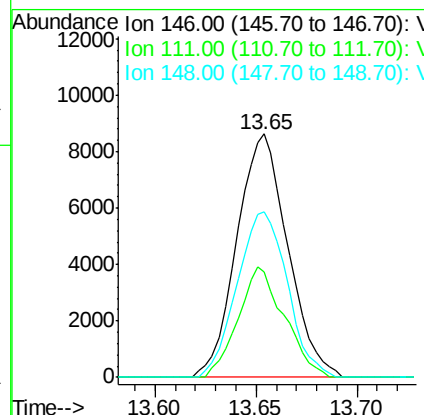
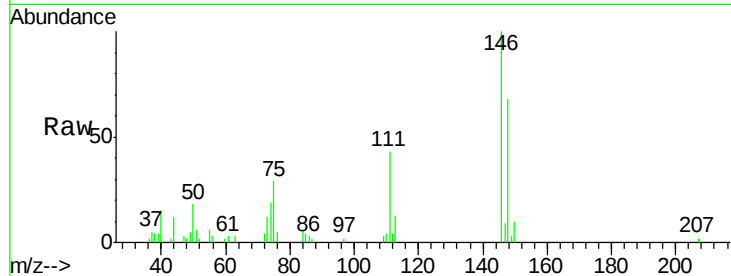
#87
 1,2-Dichlorobenzene
 Concen: 2.198 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

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

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.0	20.3	60.8
148	67.2	32.5	97.5

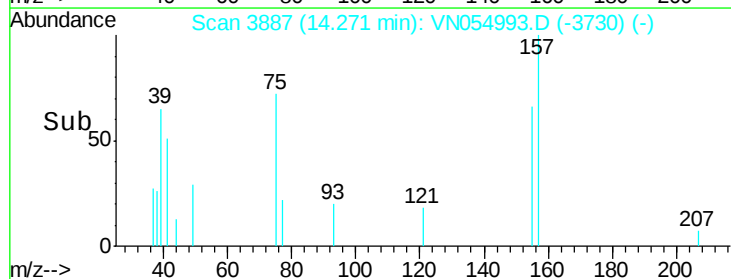
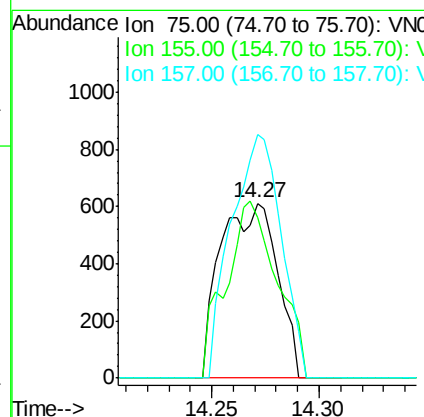
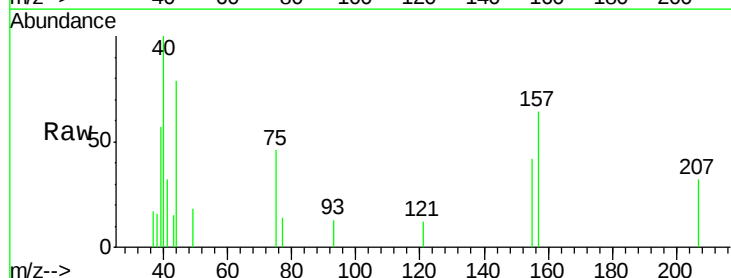
Manual Integrations
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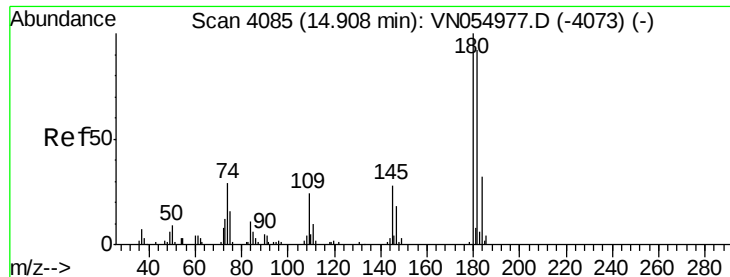
MMDadoda
 4/17/2019 9:35:41 AM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 2.064 ug/l m
 RT: 14.27 min Scan# 3887
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

Tgt Ion	Ratio	Lower	Upper
75	100		
155	77.4	61.8	92.8
157	122.2	82.7	124.1





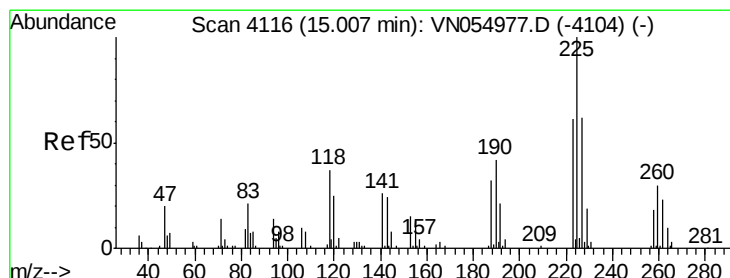
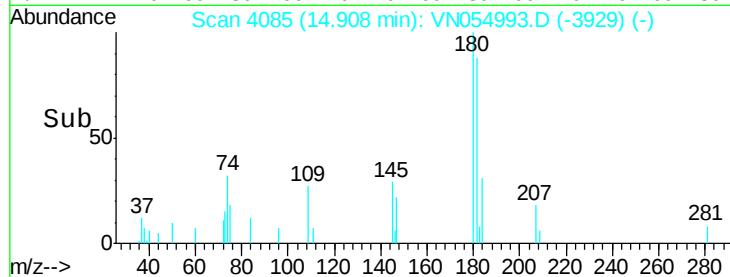
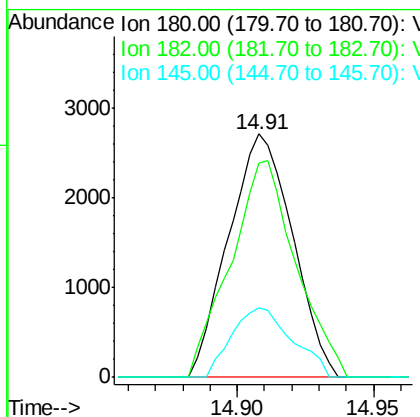
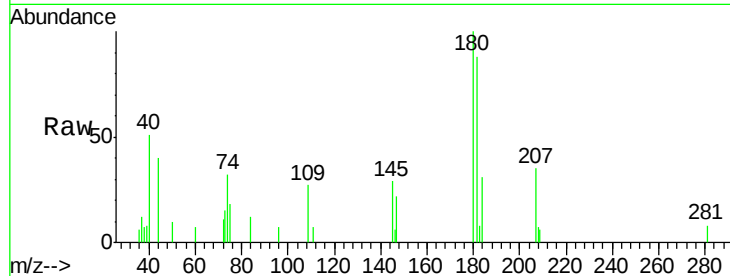
#89
 1,2,4-Trichlorobenzene
 Concen: 1.423 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	91.0	73.2	109.8
145	27.1	23.2	34.8

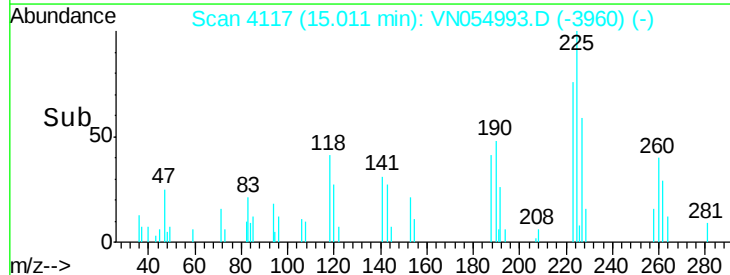
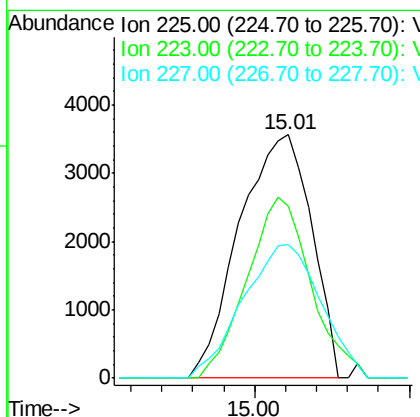
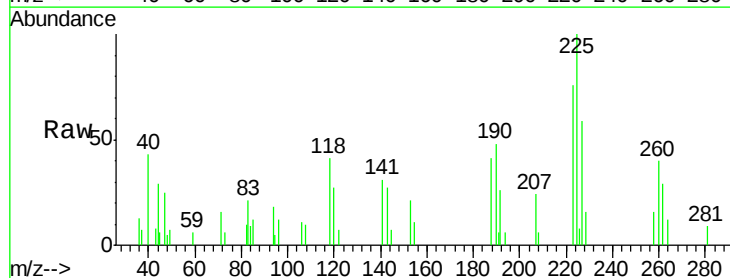
Manual Integrations
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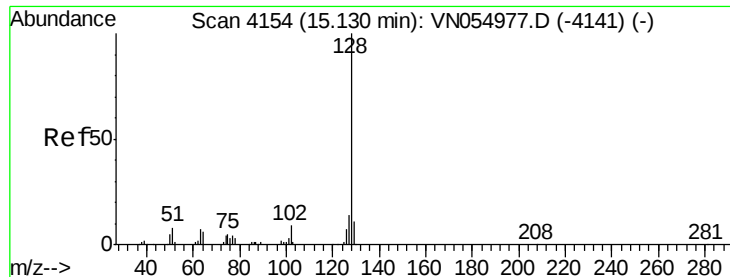
MMDadoda
 4/17/2019 9:35:41 AM



#90
 Hexachlorobutadiene
 Concen: 2.543 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN054993.D
 Acq: 12 Apr 2019 12:09

Tgt Ion	Ratio	Lower	Upper
225	100		
223	66.1	0.0	126.0
227	59.6	0.0	125.4





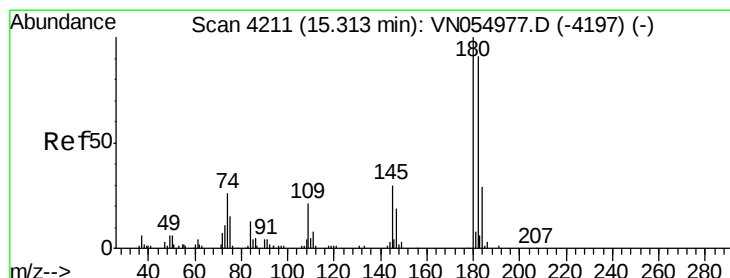
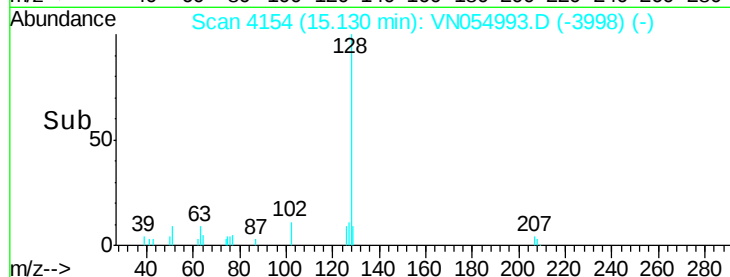
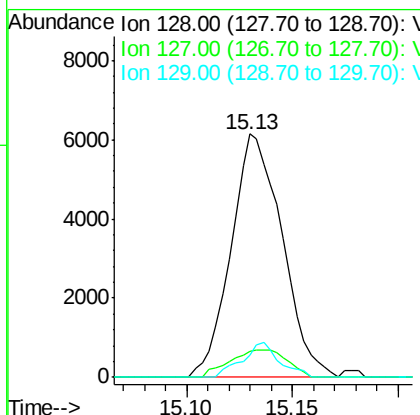
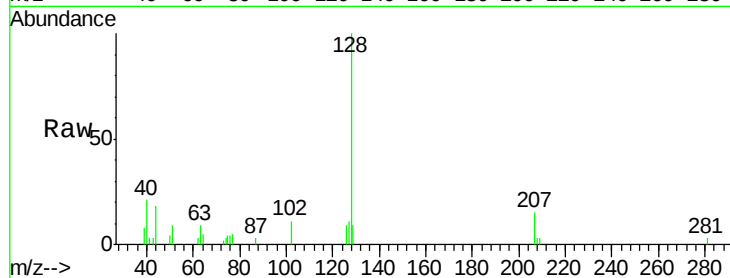
#91
Naphthalene
Concen: 1.591 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

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

Tot Ion	Ratio	Resp	Lower	Upper
128	100	10326		
127	12.7		10.6	15.8
129	10.4		9.0	13.6

Manual Integrations
APPROVED

MMDadoda
4/17/2019 9:35:41 AM



#92
1,2,3-Trichlorobenzene
Concen: 1.821 ug/l
RT: 15.31 min Scan# 4211
Delta R.T. 0.00 min
Lab File: VN054993.D
Acq: 12 Apr 2019 12:09

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	5642		
182	83.8		0.0	188.2
145	30.3		0.0	61.2

