

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101219\
 Data File : VN058689.D
 Acq On : 11 Oct 2019 9:41
 Operator : JC/SP
 Sample : K5111-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Manual Integrations
 APPROVED

MMDadoda
 10/14/2019 4:59:21 PM

Quant Time: Oct 11 17:39:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N101119W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Oct 11 04:26:47 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.17	128	68169	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.57	114	386349	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	346564	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.01	65	185001	31.98	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	106.60%
60) 4-Bromofluorobenzene	12.40	95	169394	27.94	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	93.13%
63) Toluene-d8	10.08	98	492900	30.12	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.83	85	10874	2.944 ug/l	95
3) Chloromethane	2.04	50	14248	2.888 ug/l	98
4) Vinyl Chloride	2.17	62	14491	2.842 ug/l	96
5) Bromomethane	2.55	94	10067	3.198 ug/l	94
6) Chloroethane	2.69	64	8701	2.715 ug/l	90
7) Trichlorofluoromethane	3.00	101	18249	2.908 ug/l	90
8) Diethyl Ether	3.38	74	6576	2.747 ug/l	88
9) 1,1,2-Trichlorotrifluoroet	3.74	101	10730	2.955 ug/l	98
10) 1,1-Dichloroethene	3.71	96	10037	2.814 ug/l	98
11) Methyl Iodide	3.93	142	12892	2.595 ug/l	94
12) Methyl Acetate	4.31	43	16016	2.807 ug/l	96
13) Acrolein	3.59	56	9551	15.148 ug/l #	55
14) Acrylonitrile	4.96	53	29962	13.325 ug/l	97
15) Acetone	3.79	58	8906	13.343 ug/l	86
16) Carbon Disulfide	4.03	76	30814	2.962 ug/l	96
17) Allyl chloride	4.29	41	20738m	2.921 ug/l	
18) Methylene Chloride	4.53	84	12944	2.997 ug/l	87
19) trans-1,2-Dichloroethene	5.02	96	11604	2.988 ug/l	88
20) Diisopropyl ether	5.92	45	39576	2.736 ug/l #	89
21) 1,1-Dichloroethane	5.83	63	23140	2.889 ug/l	99
22) cis-1,2-Dichloroethene	6.81	96	13343	2.882 ug/l	95
23) tert-Butyl Alcohol	4.76	59	13412m	14.583 ug/l	
24) Methyl tert-Butyl Ether	5.02	73	36964m	2.778 ug/l	
25) Chloroform	7.36	83	23758	2.974 ug/l	96
26) Cyclohexane	7.63	56	19062	2.712 ug/l #	96
29) 1,1-Dichloropropene	7.78	75	15611	2.567 ug/l	98
30) 2-Butanone	6.82	43	44576	12.970 ug/l	99
31) 2,2-Dichloropropane	6.80	77	21585	3.011 ug/l	96
32) 1,1,1-Trichloroethane	7.55	97	20558	2.923 ug/l #	80
33) Carbon Tetrachloride	7.75	117	17039	2.799 ug/l	99
34) Benzene	8.02	78	48849	2.728 ug/l #	23
35) Methacrylonitrile	7.17	41	10519m	3.465 ug/l	
36) 1,2-Dichloroethane	8.11	62	20775	3.035 ug/l #	95
37) Trichloroethene	8.82	130	12731	2.894 ug/l	98
38) Methylcyclohexane	9.07	83	18478	2.621 ug/l	99
39) 1,2-Dichloropropane	9.10	63	14334	2.929 ug/l	97
40) Dibromomethane	9.19	93	8857	2.867 ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.39	83	17093	2.709	ug/l	98
42) Vinyl Acetate	5.87	43	158782	13.192	ug/l	99
43) Ethyl Acetate	6.91	43	16326	2.420	ug/l	95
44) Isopropyl Acetate	8.15	43	29311	2.683	ug/l #	86
45) 1,4-Dioxane	9.19	88	4895	58.343	ug/l #	86
46) Methyl methacrylate	9.19	41	12250	2.442	ug/l	96
47) n-amyl Acetate	12.07	43	21269	2.196	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	20208m	2.761	ug/l	
49) cis-1,3-Dichloropropene	9.83	75	19904	2.590	ug/l #	88
50) 1,1,2-Trichloroethane	10.56	97	12883	2.922	ug/l	96
51) Ethyl methacrylate	10.43	69	16005	2.270	ug/l	97
52) 1,3-Dichloropropane	10.71	76	21512	2.739	ug/l	95
53) Dibromochloromethane	10.90	129	12056	2.548	ug/l	96
54) 1,2-Dibromoethane	11.00	107	12079	2.643	ug/l	100
55) 2-Chloroethyl vinyl ether	9.69	63	41328	11.783	ug/l	100
56) Bromoform	12.13	173	7837	2.377	ug/l	98
58) 4-Methyl-2-Pentanone	9.98	43	84262	13.328	ug/l	97
59) 2-Hexanone	10.75	43	63724	12.857	ug/l	99
61) Tetrachloroethene	10.63	164	11048	2.950	ug/l	95
62) Toluene	10.15	91	52825	2.834	ug/l	99
64) Chlorobenzene	11.43	112	31147	2.733	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	12580	2.944	ug/l	97
66) Ethyl Benzene	11.51	91	54873	2.658	ug/l	99
67) m/p-Xylenes	11.62	106	39043	5.063	ug/l	96
68) o-Xylene	11.95	106	19531	2.612	ug/l	96
69) Styrene	11.97	104	28509	2.308	ug/l	97
70) Isopropylbenzene	12.25	105	50886	2.521	ug/l	98
71) 1,1,2,2-Tetrachloroethane	12.51	83	18543	2.729	ug/l	99
72) 1,2,3-Trichloropropane	12.56	75	16831m	2.733	ug/l	
73) Bromobenzene	12.53	156	13297	2.712	ug/l	98
74) n-propylbenzene	12.59	91	59649	2.525	ug/l	99
75) 2-Chlorotoluene	12.68	91	38326	2.696	ug/l	97
76) 1,3,5-Trimethylbenzene	12.74	105	42608	2.465	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	5358	2.284	ug/l	96
78) 4-Chlorotoluene	12.78	91	35336	2.412	ug/l	100
79) tert-butylbenzene	13.00	119	38235	2.589	ug/l	97
80) 1,2,4-Trimethylbenzene	13.04	105	41812	2.434	ug/l	100
81) sec-Butylbenzene	13.18	105	47286	2.379	ug/l	98
82) p-Isopropyltoluene	13.29	119	42468	2.379	ug/l	99
83) 1,3-Dichlorobenzene	13.29	146	22026	2.483	ug/l	96
84) 1,4-Dichlorobenzene	13.37	146	22076	2.491	ug/l	98
85) n-Butylbenzene	13.62	91	36157	2.213	ug/l	98
86) Hexachloroethane	13.88	117	8291	2.552	ug/l	100
87) 1,2-Dichlorobenzene	13.66	146	22600	2.580	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.28	75	4005	2.648	ug/l	96
89) 1,2,4-Trichlorobenzene	14.92	180	12210	2.208	ug/l	100
90) Hexachlorobutadiene	15.01	225	7745	2.712	ug/l	97
91) Naphthalene	15.13	128	34220	2.096	ug/l	99
92) 1,2,3-Trichlorobenzene	15.30	180	11743	2.181	ug/l	99

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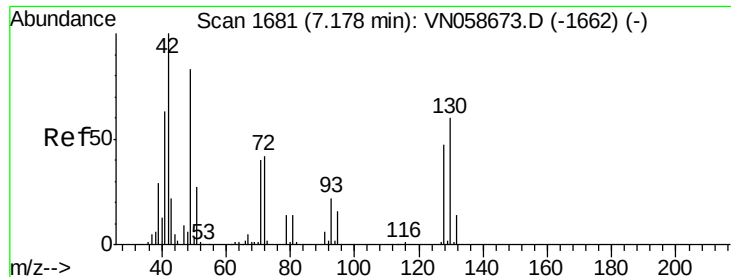
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



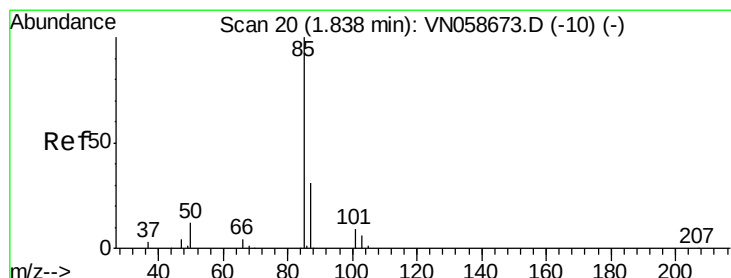
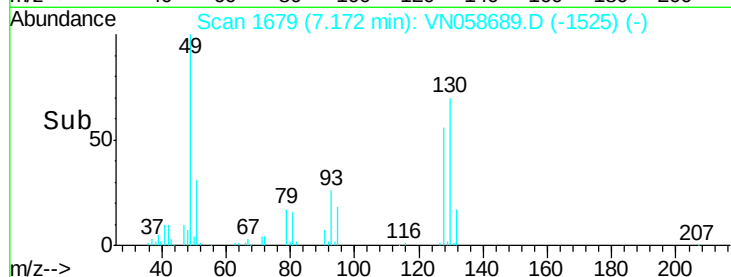
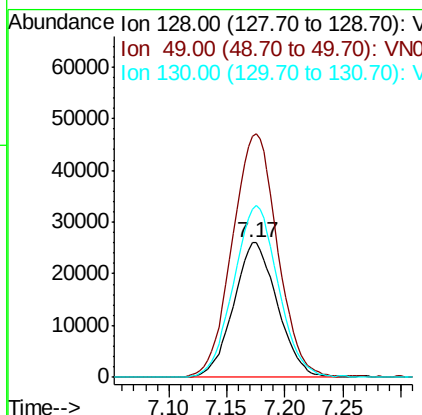
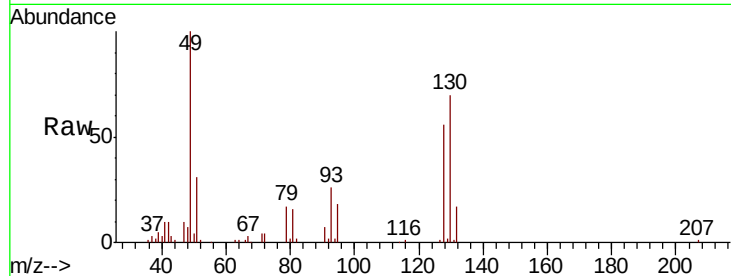
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.01 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
128	100		
49	186.4	0.0	453.5
130	129.9	0.0	314.2

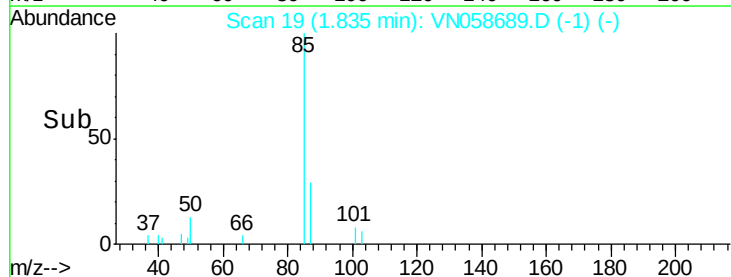
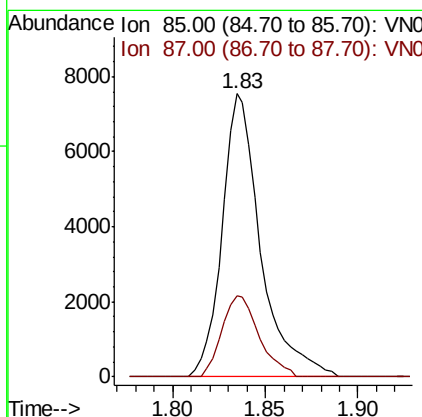
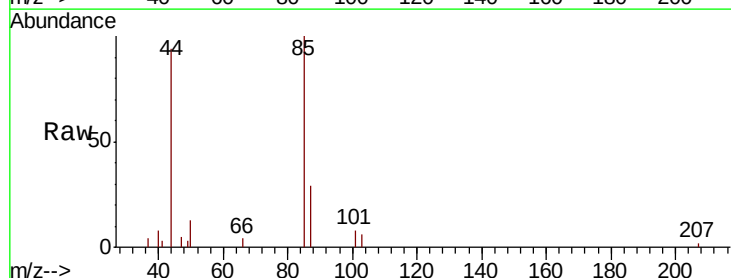
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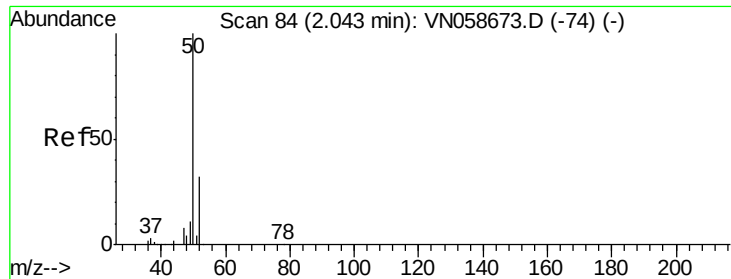
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#2
Dichlorodifluoromethane
Concen: 2.944 ug/l
RT: 1.83 min Scan# 19
Delta R.T. -0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Lower	Upper
85	100		
87	28.6	15.7	47.0





#3

Chloromethane

Concen: 2.888 ug/l

RT: 2.04 min Scan# 84

Delta R.T. 0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion: 50 Resp: 14248

Ion Ratio Lower Upper

50 100

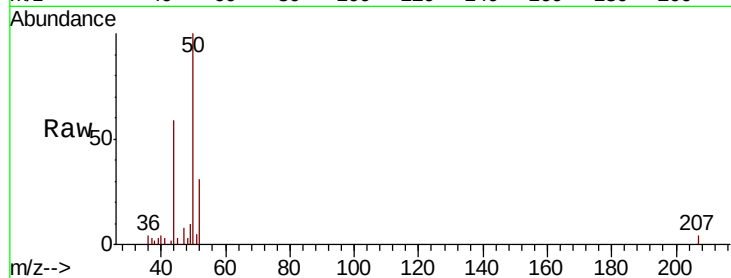
52 31.0 25.8 38.8

Manual Integrations

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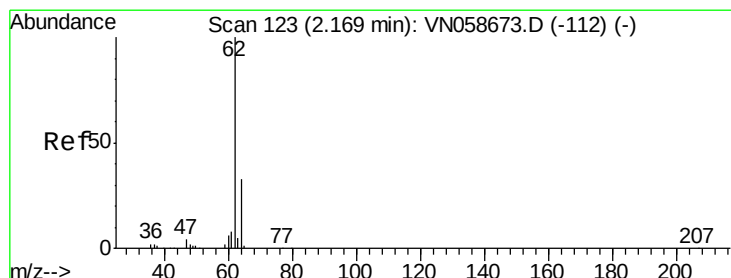
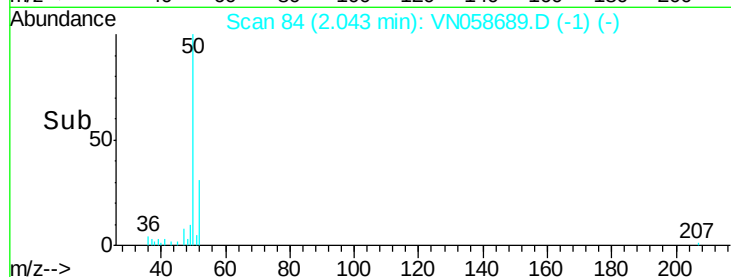
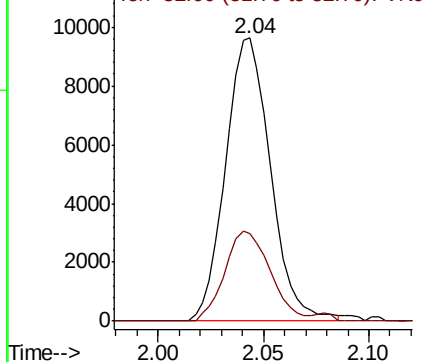
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Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 2.842 ug/l

RT: 2.17 min Scan# 123

Delta R.T. 0.00 min

Lab File: VN058689.D

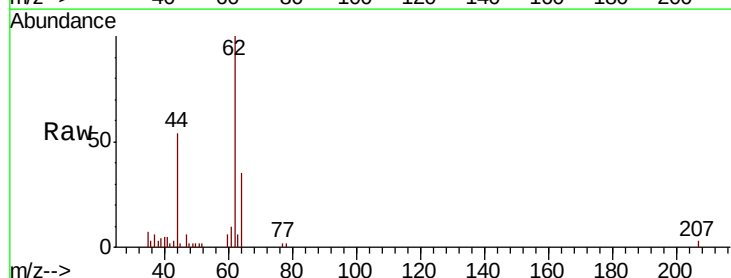
Acq: 11 Oct 2019 9:41

Tgt Ion: 62 Resp: 14491

Ion Ratio Lower Upper

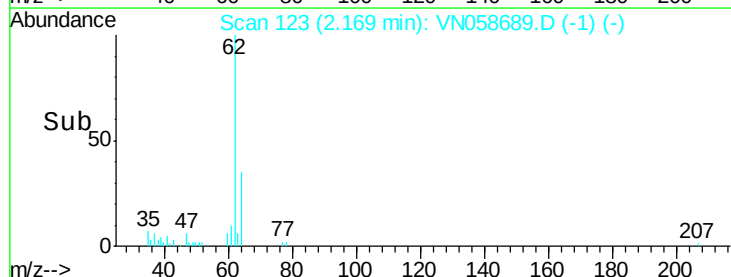
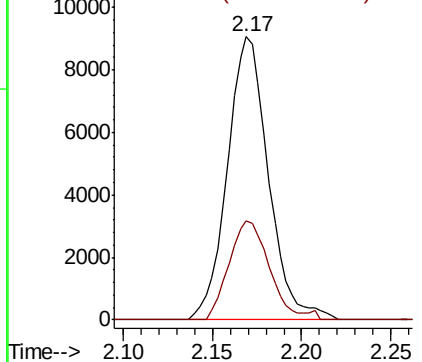
62 100

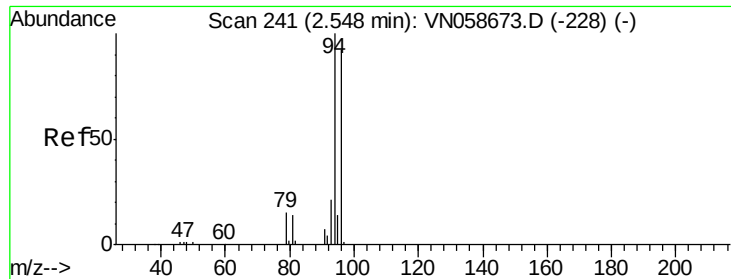
64 35.1 26.1 39.1



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0





#5

Bromomethane

Concen: 3.198 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Instrument :

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MDL-MDL-WATER-03-QT4-2019

Tot Ion: 94 Resp: 10067

Ion Ratio Lower Upper

94 100

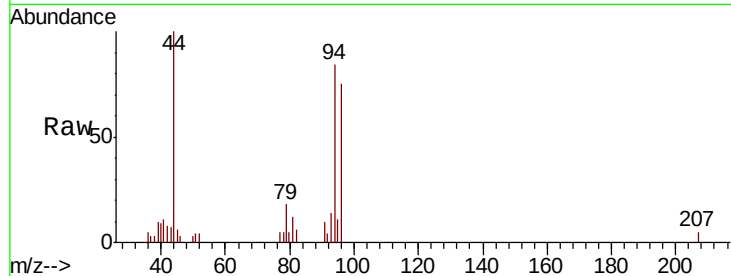
96 86.0 73.7 110.5

Manual Integrations

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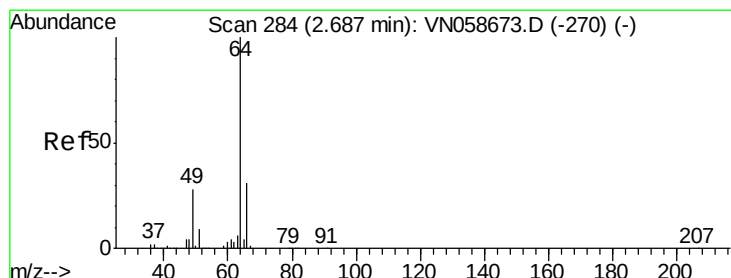
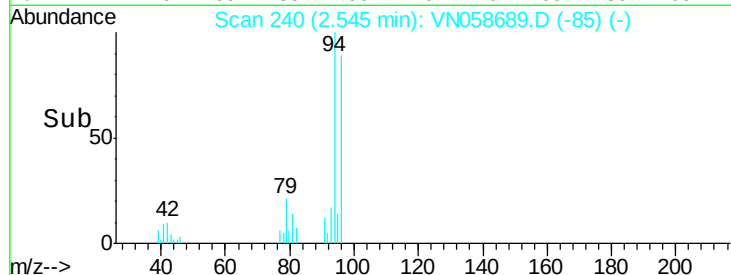
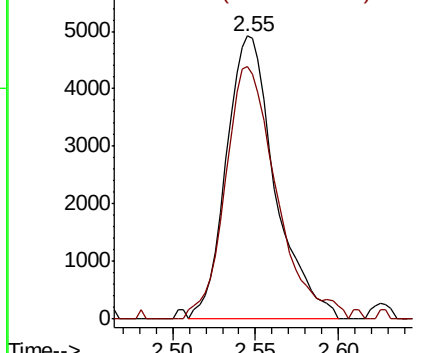
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 2.715 ug/l

RT: 2.69 min Scan# 284

Delta R.T. 0.00 min

Lab File: VN058689.D

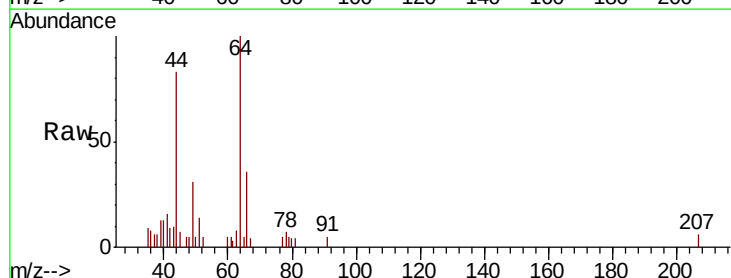
Acq: 11 Oct 2019 9:41

Tgt Ion: 64 Resp: 8701

Ion Ratio Lower Upper

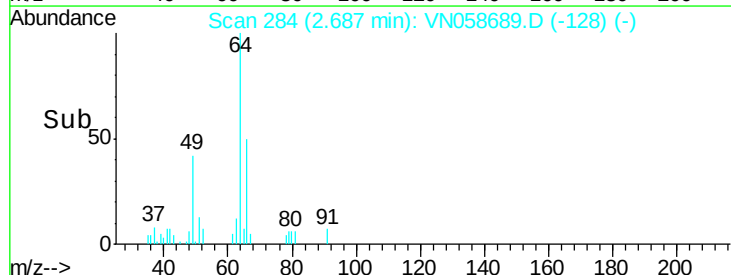
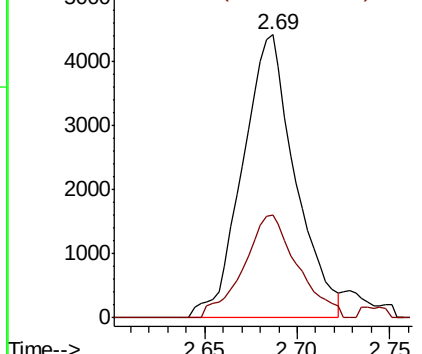
64 100

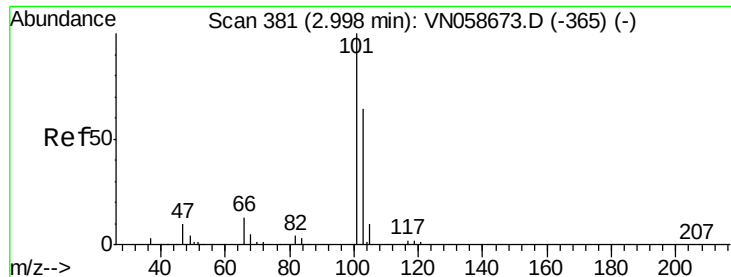
66 36.4 24.6 36.8



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

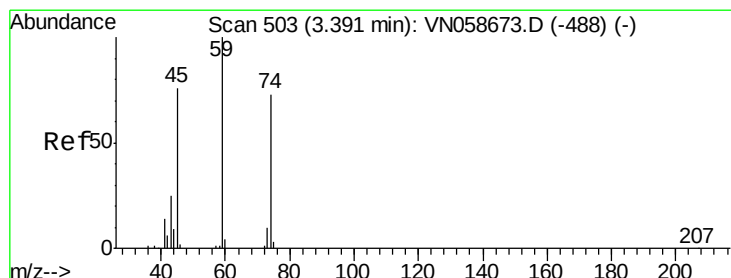
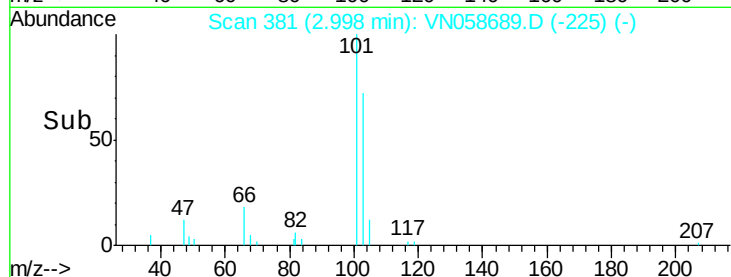
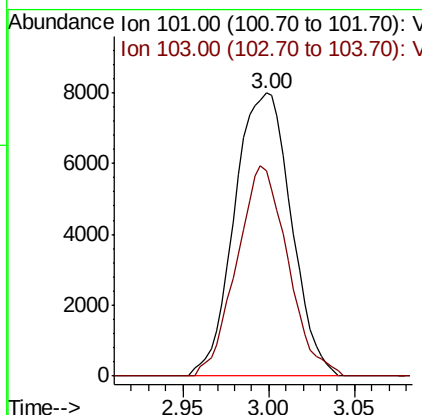
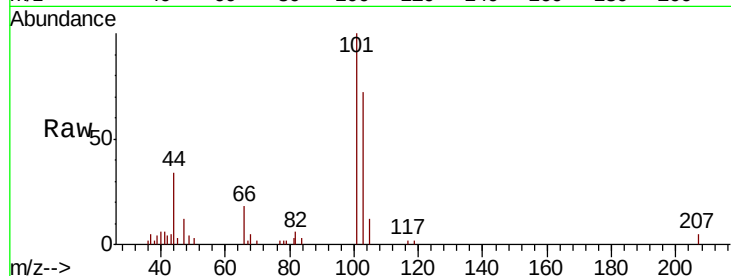
Trichlorofluoromethane
Concen: 2.908 ug/l
RT: 3.00 min Scan# 381
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

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Tot Ion	Ratio	Lower	Upper
101	100		
103	72.4	51.5	77.3

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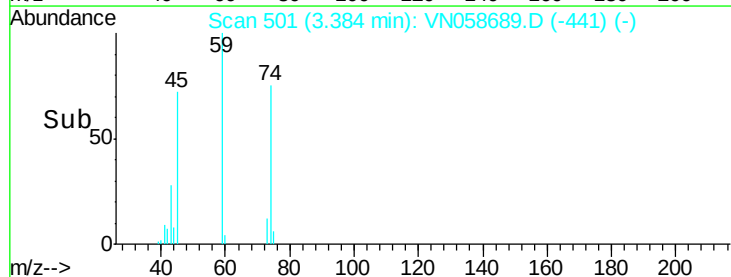
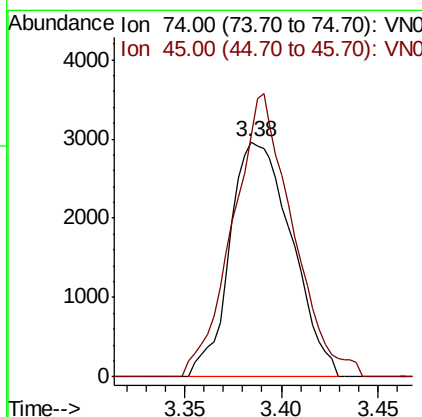
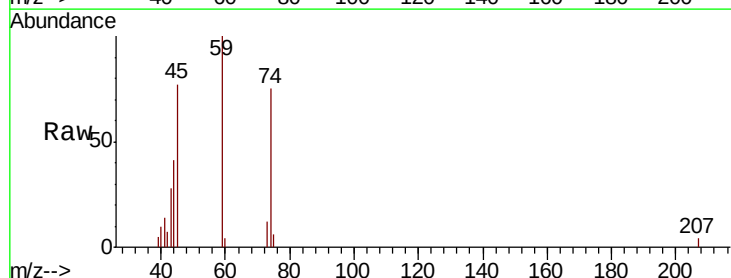
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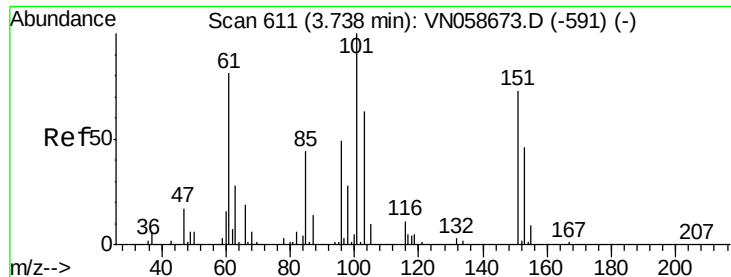


#8

Diethyl Ether
Concen: 2.747 ug/l
RT: 3.38 min Scan# 501
Delta R.T. -0.01 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Lower	Upper
74	100		
45	115.8	20.6	185.8





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.955 ug/l

RT: 3.74 min Scan# 611

Delta R.T. 0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Instrument :

MSVOA_N

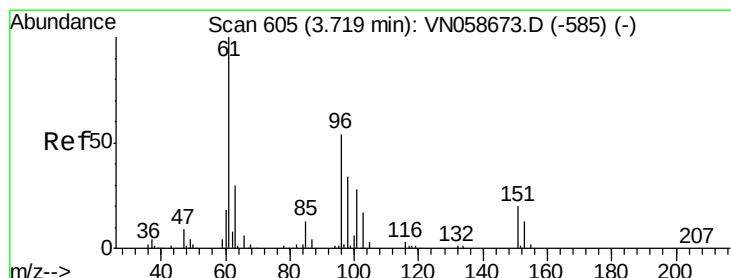
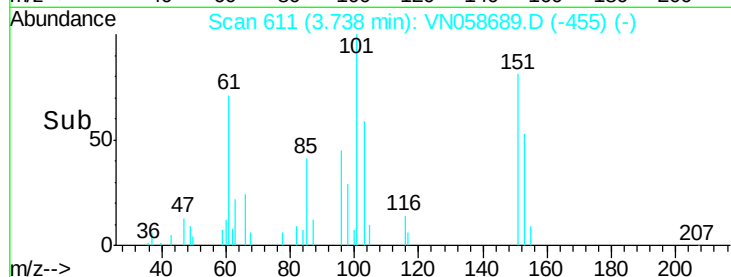
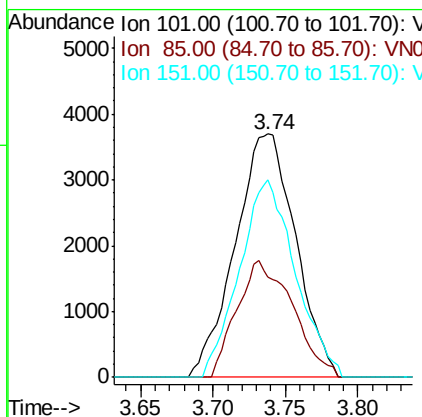
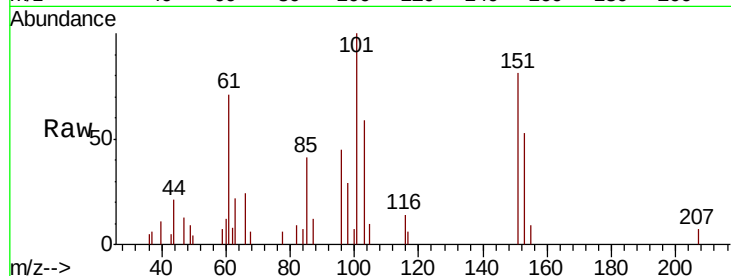
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion:	101	Resp:	10730
Ion Ratio	Lower	Upper	
101	100		
85	44.2	0.0	93.8
151	75.0	0.0	149.6

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#10

1,1-Dichloroethene

Concen: 2.814 ug/l

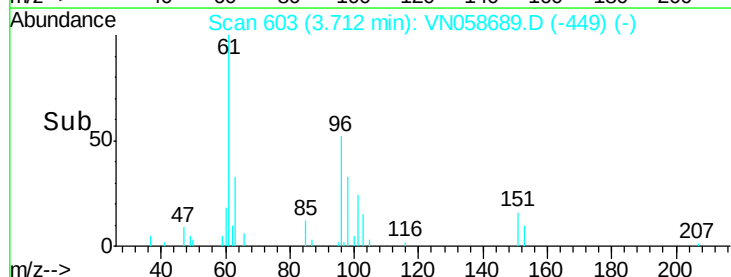
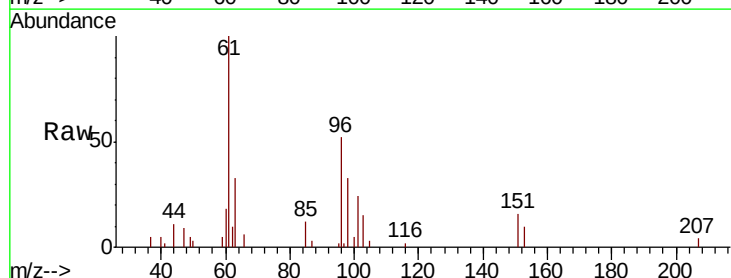
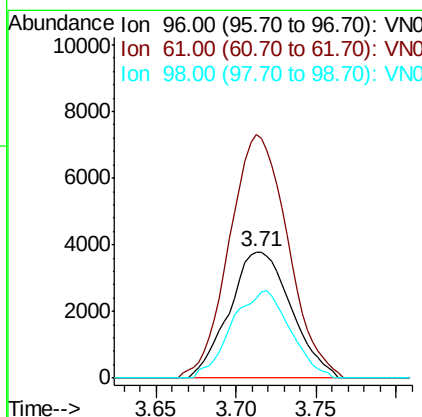
RT: 3.71 min Scan# 603

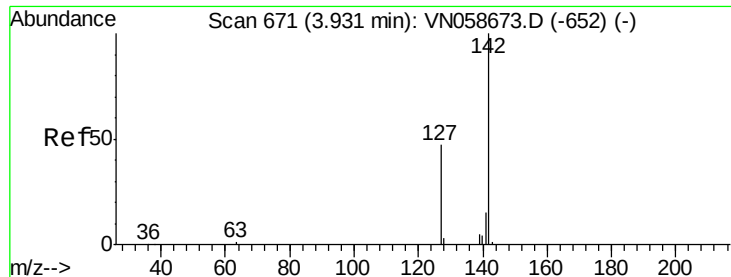
Delta R.T. -0.01 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Tgt Ion:	96	Resp:	10037
Ion Ratio	Lower	Upper	
96	100		
61	189.0	148.5	222.7
98	63.5	51.0	76.6





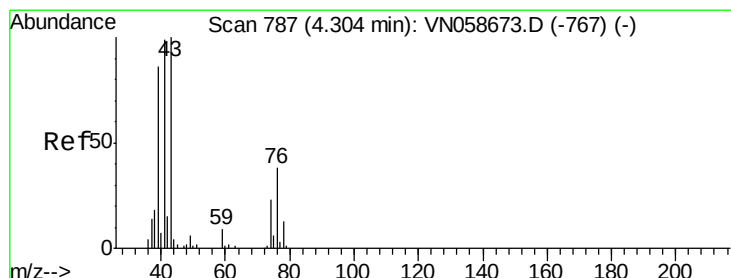
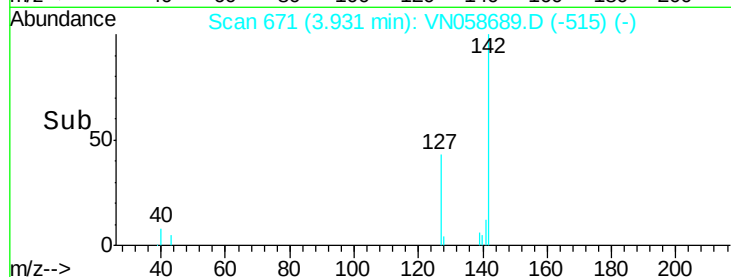
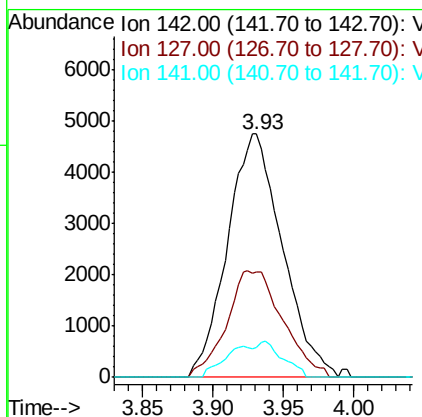
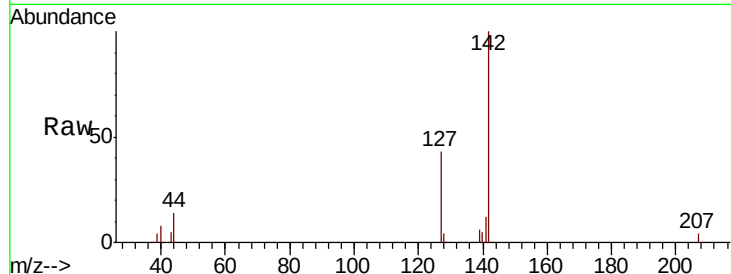
#11
Methvl Iodide
Concen: 2.595 ug/l
RT: 3.93 min Scan# 671
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
142	100		
127	43.4	23.5	70.6
141	12.5	7.4	22.2

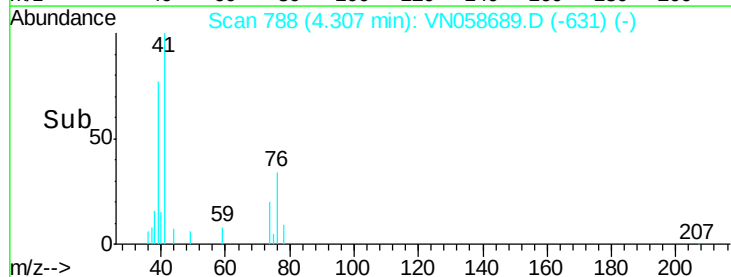
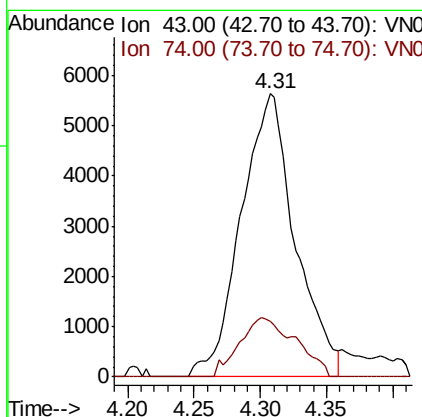
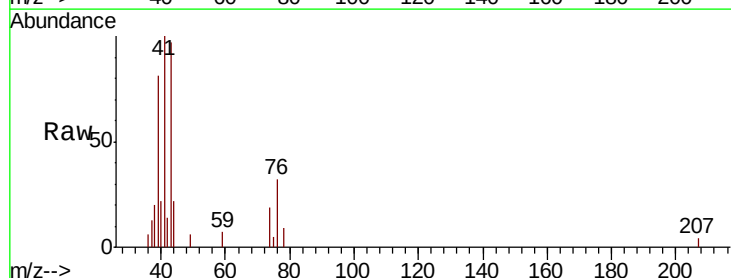
Manual Integrations
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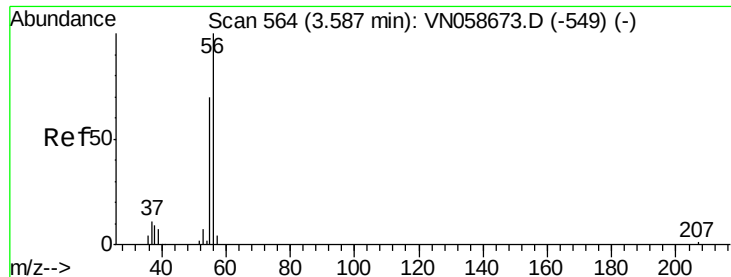
MMDadoda
10/14/2019 4:59:21 PM



#12
Methyl Acetate
Concen: 2.807 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Lower	Upper
43	100		
74	20.5	18.1	27.1





#13

Acrolein

Concen: 15.148 ug/l

RT: 3.59 min Scan# 564

Delta R.T. 0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion: 56 Resp: 9551

Ion Ratio Lower Upper

56 100

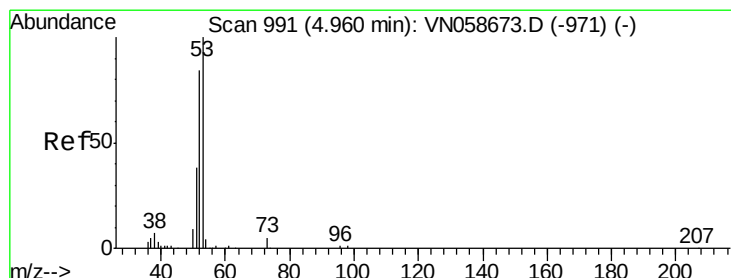
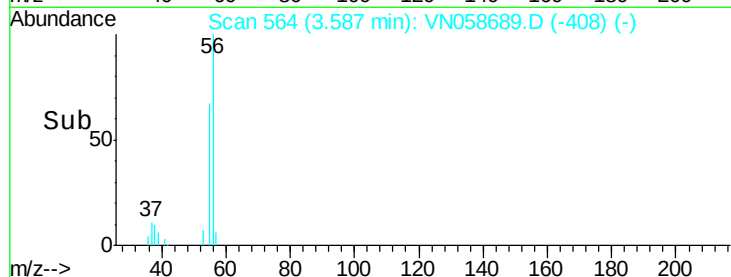
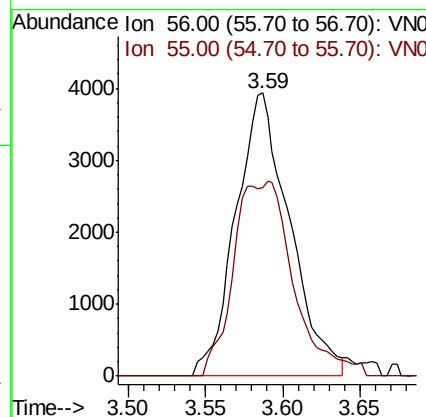
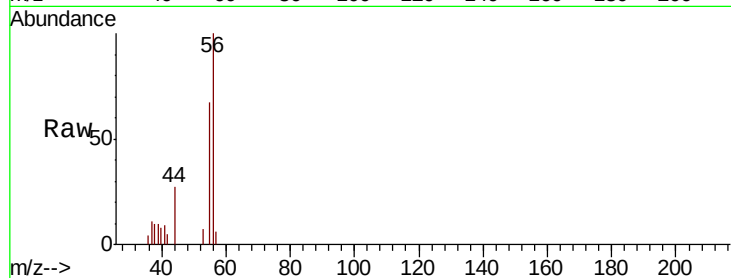
55 33.2 55.9 83.9#

Manual Integrations

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MMDadoda

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#14

Acrylonitrile

Concen: 13.325 ug/l

RT: 4.96 min Scan# 992

Delta R.T. 0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

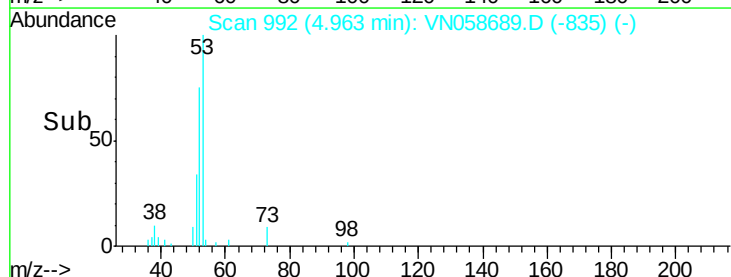
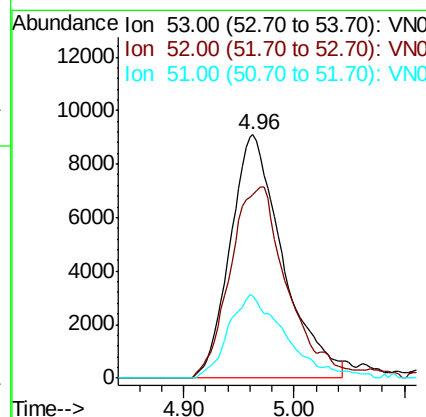
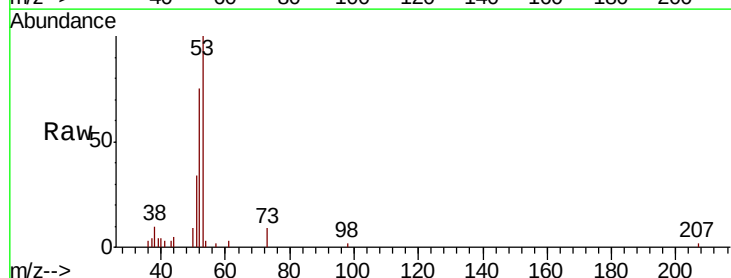
Tgt Ion: 53 Resp: 29962

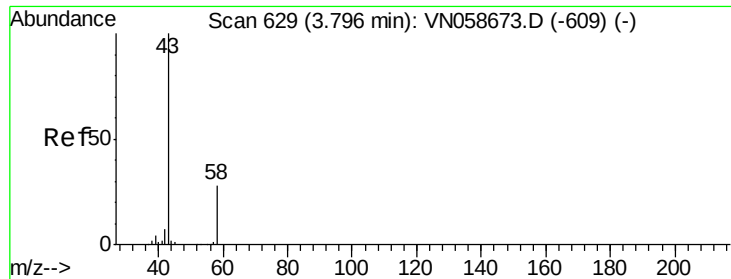
Ion Ratio Lower Upper

53 100

52 81.4 42.2 126.6

51 35.2 18.8 56.4





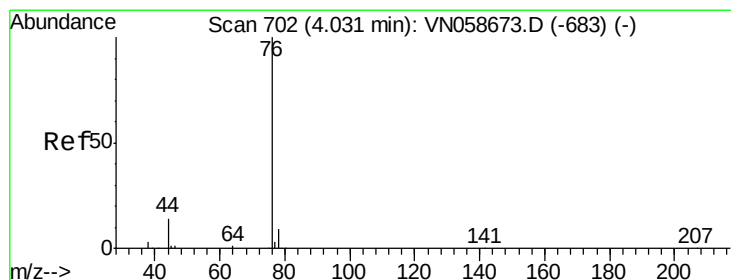
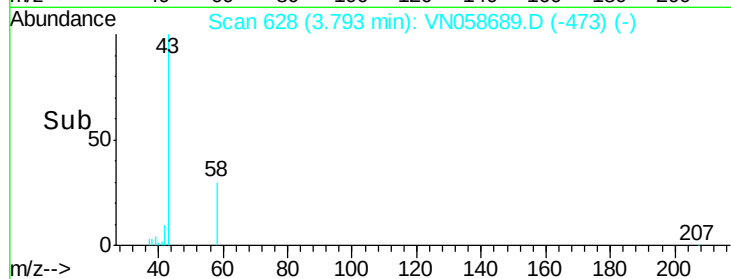
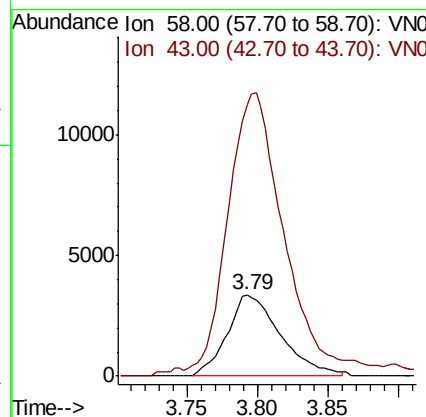
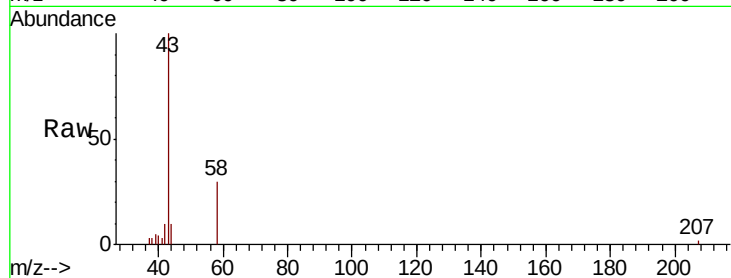
#15
Acetone
Concen: 13.343 ug/l
RT: 3.79 min Scan# 628
Delta R.T. -0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 58 Resp: 8906
Ion Ratio Lower Upper
58 100
43 320.8 281.7 422.5

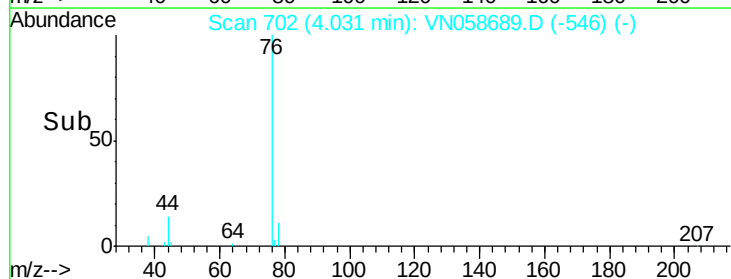
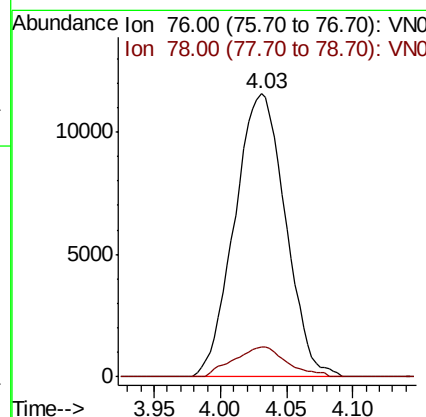
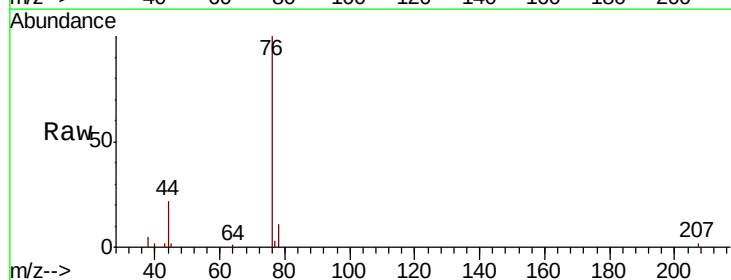
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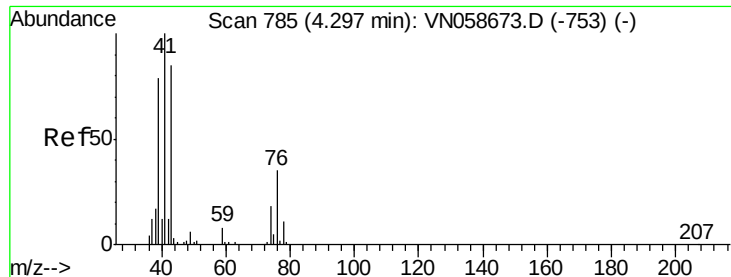
MMDadoda
10/14/2019 4:59:21 PM



#16
Carbon Disulfide
Concen: 2.962 ug/l
RT: 4.03 min Scan# 702
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tgt Ion: 76 Resp: 30814
Ion Ratio Lower Upper
76 100
78 10.5 7.4 11.0





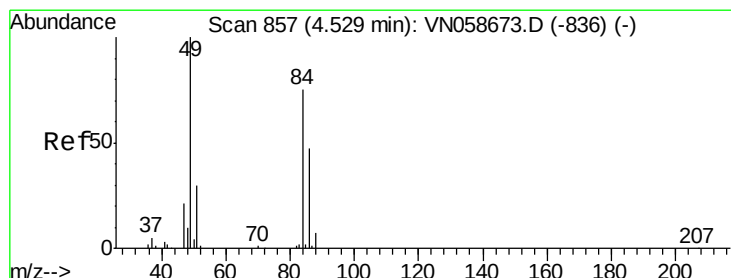
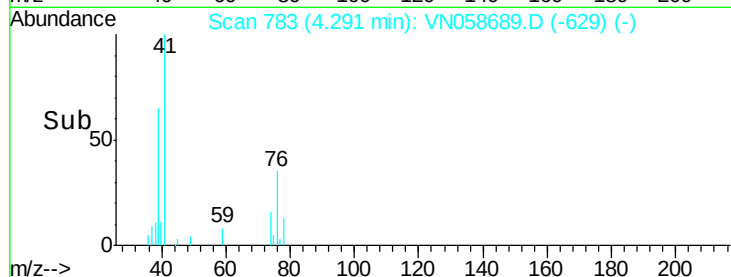
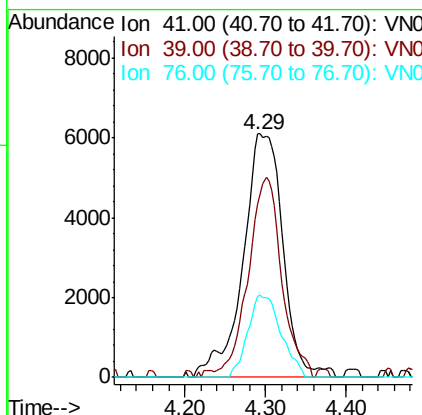
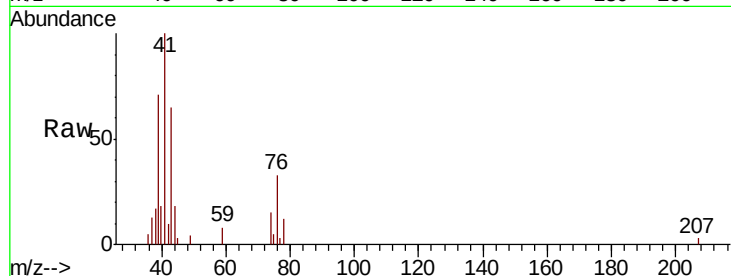
#17
Allvl chloride
Concen: 2.921 ug/l m
RT: 4.29 min Scan# 783
Delta R.T. -0.01 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
41	100		
39	71.3	39.6	118.8
76	33.2	17.6	52.9

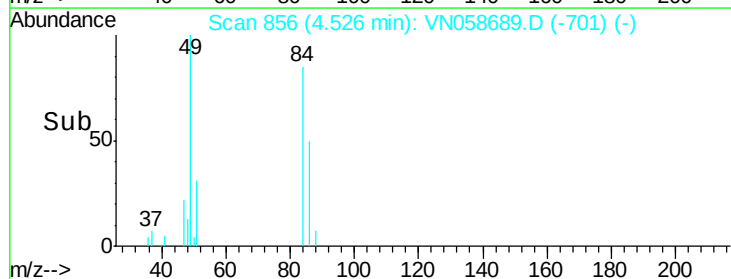
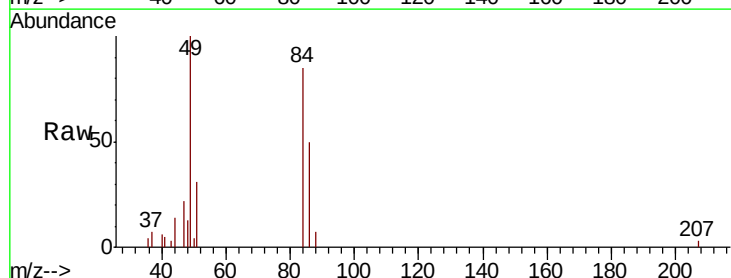
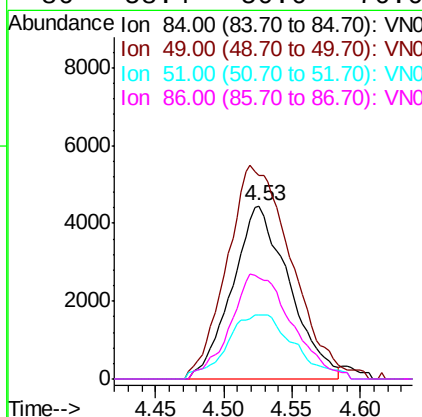
Manual Integrations
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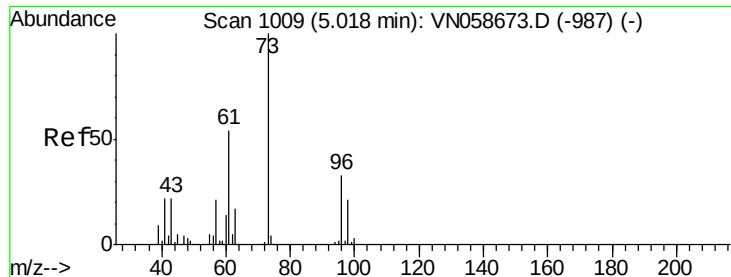
MMDadoda
10/14/2019 4:59:21 PM



#18
Methylene Chloride
Concen: 2.997 ug/l
RT: 4.53 min Scan# 856
Delta R.T. -0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Lower	Upper
84	100		
49	113.2	106.6	160.0
51	33.6	32.4	48.6
86	58.4	50.6	76.0





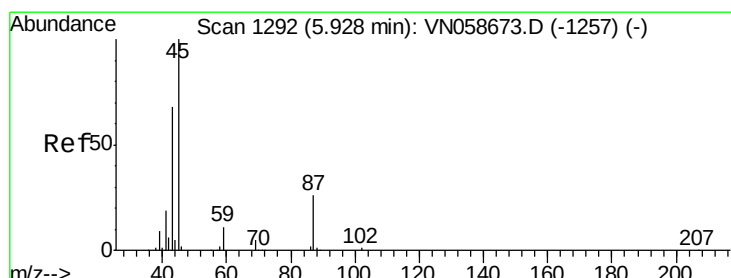
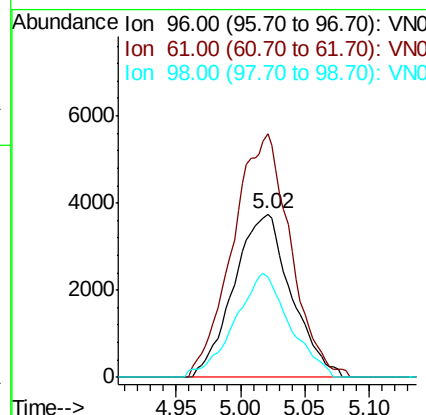
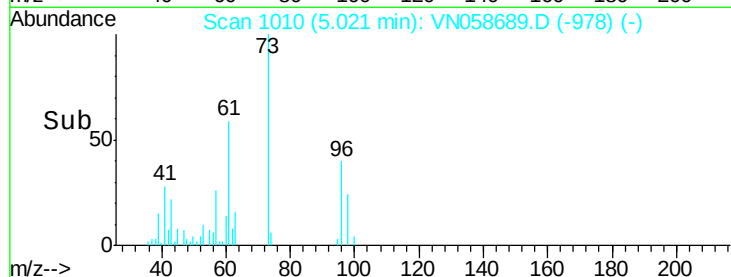
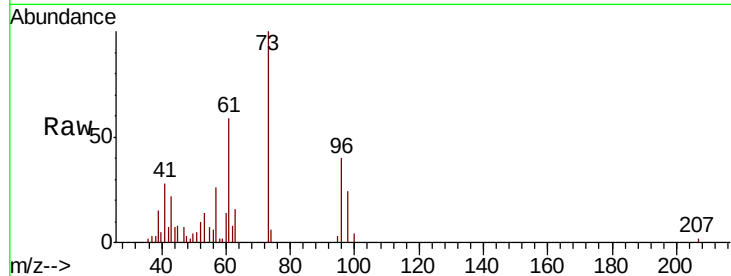
#19
trans-1,2-Dichloroethene
Concen: 2.988 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
96	100		
61	144.5	131.8	197.6
98	61.7	52.6	79.0

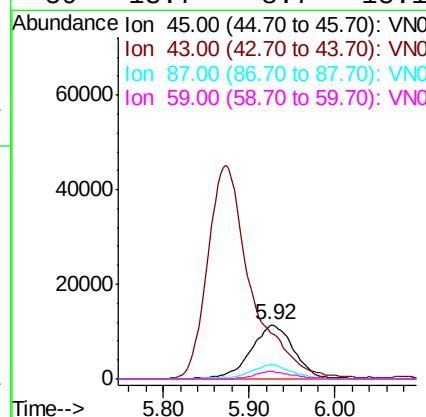
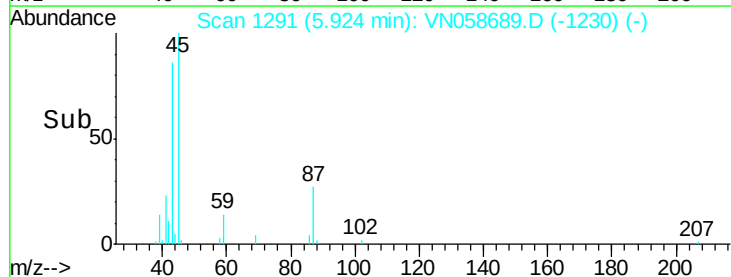
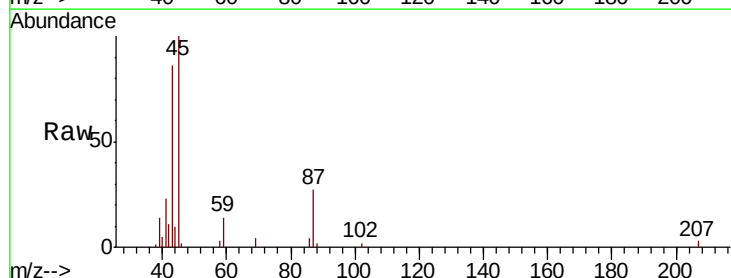
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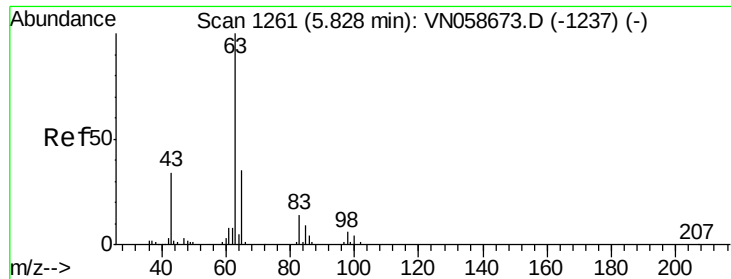
MMDadoda
10/14/2019 4:59:21 PM



#20
Diisopropyl ether
Concen: 2.736 ug/l
RT: 5.92 min Scan# 1291
Delta R.T. -0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Lower	Upper
45	100		
43	80.9	54.7	82.1
87	26.6	21.5	32.3
59	13.7	8.7	13.1#





#21

1,1-Dichloroethane

Concen: 2.889 ug/l

RT: 5.83 min Scan# 1261

Delta R.T. 0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Instrument :

MSVOA_N

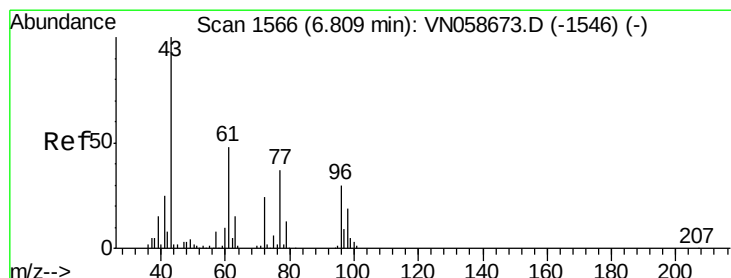
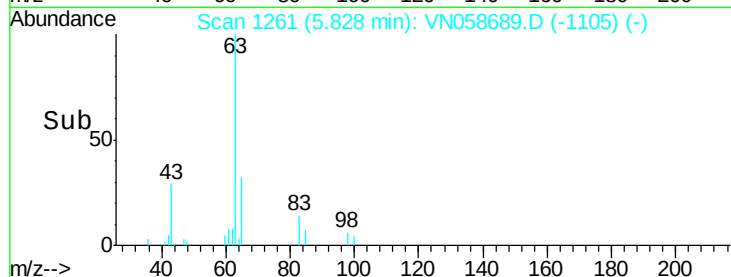
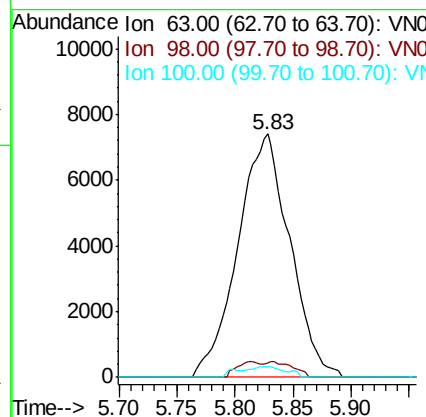
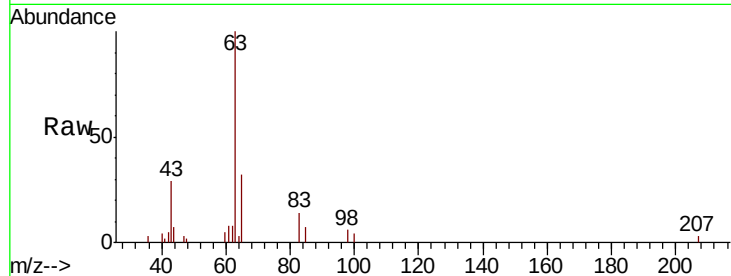
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion:	63	Resp:	23140
Ion Ratio	Lower	Upper	
63	100		
98	5.9	2.9	8.6
100	4.4	1.8	5.5

Manual Integrations
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#22

cis-1,2-Dichloroethene

Concen: 2.882 ug/l

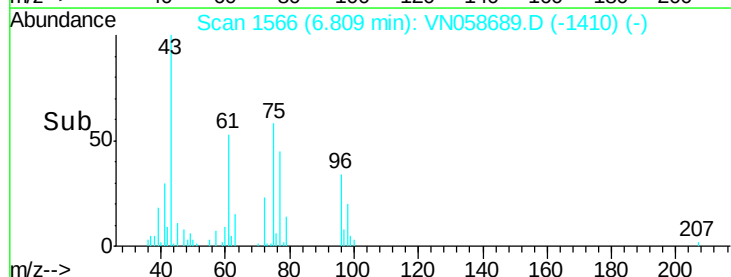
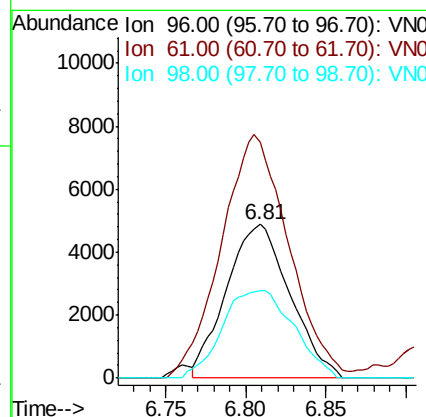
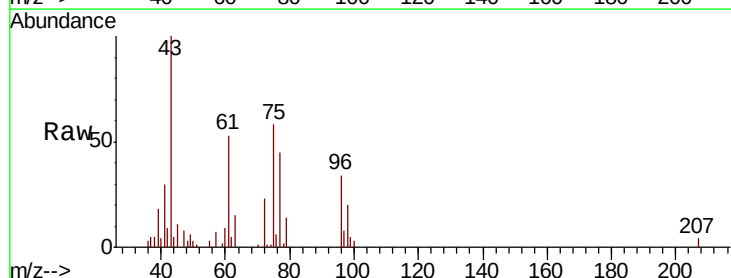
RT: 6.81 min Scan# 1566

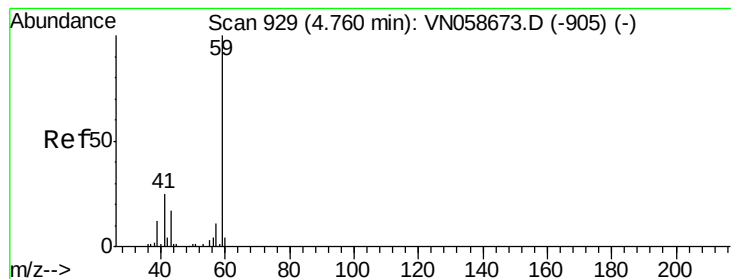
Delta R.T. 0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Tgt Ion:	96	Resp:	13343
Ion Ratio	Lower	Upper	
96	100		
61	167.6	127.2	190.8
98	63.7	50.5	75.7





#23

tert-Butyl Alcohol

Concen: 14.583 ug/l m

RT: 4.76 min Scan# 929

Delta R.T. 0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Tot Ion: 59 Resp: 13412

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0

Instrument :

MSVOA_N

ClientSampleId :

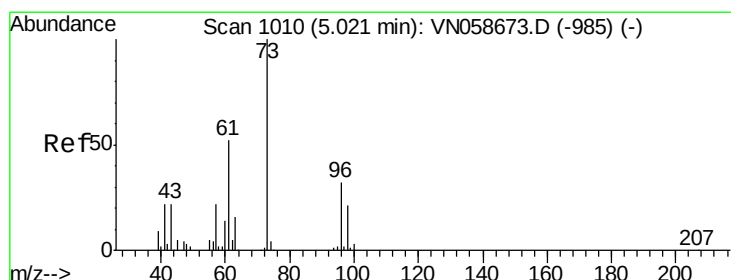
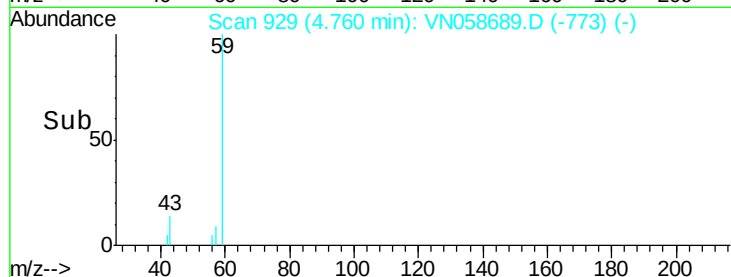
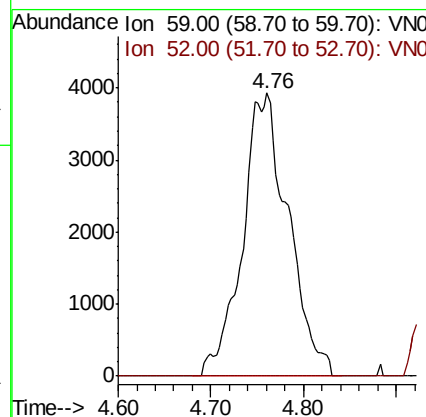
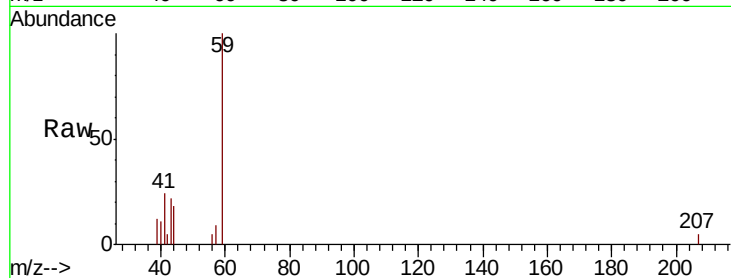
MDL-MDL-WATER-03-QT4-2019

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#24

Methyl tert-Butyl Ether

Concen: 2.778 ug/l m

RT: 5.02 min Scan# 1009

Delta R.T. -0.00 min

Lab File: VN058689.D

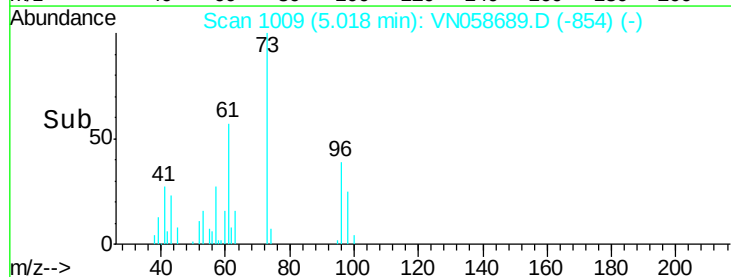
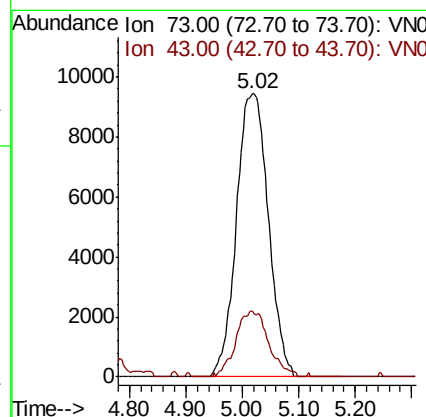
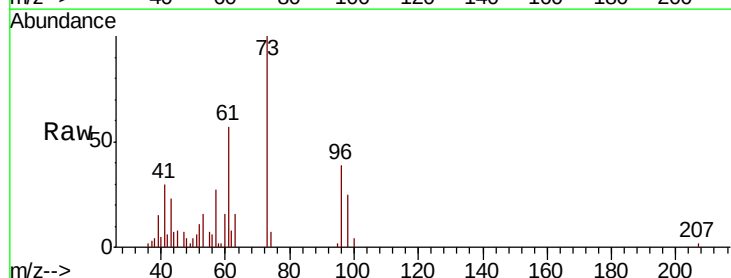
Acq: 11 Oct 2019 9:41

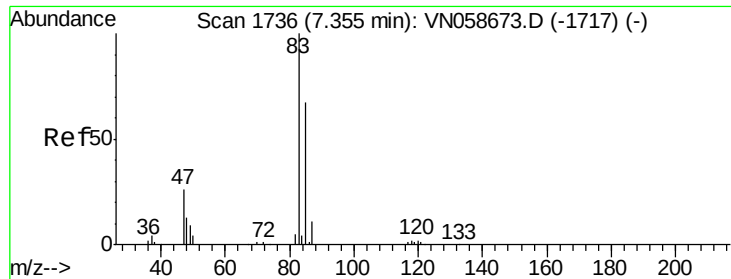
Tgt Ion: 73 Resp: 36964

Ion Ratio Lower Upper

73 100

43 9.0 17.9 26.9#





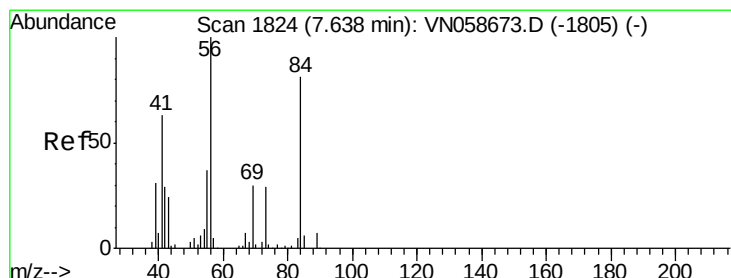
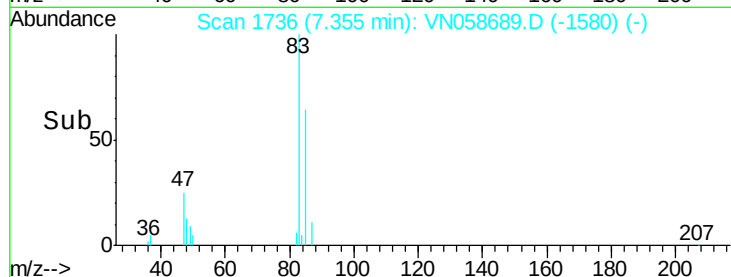
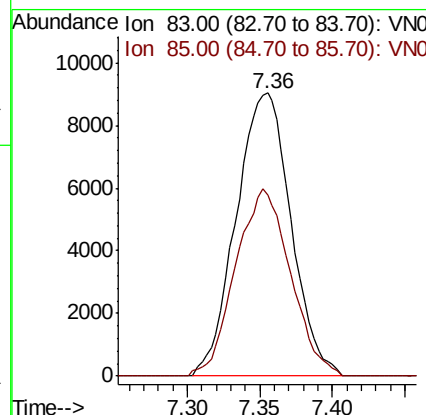
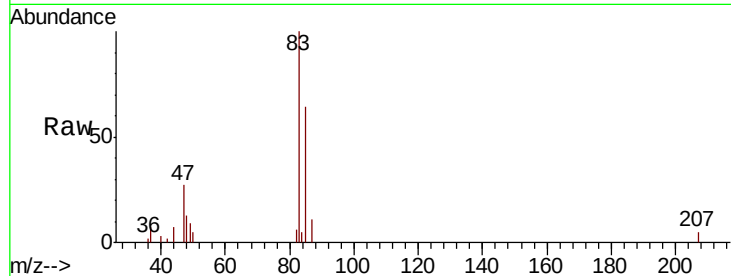
#25
Chloroform
Concen: 2.974 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	83	Resp	23758
Ion Ratio	100	Lower	Upper
83	100		
85	63.7	53.8	80.8

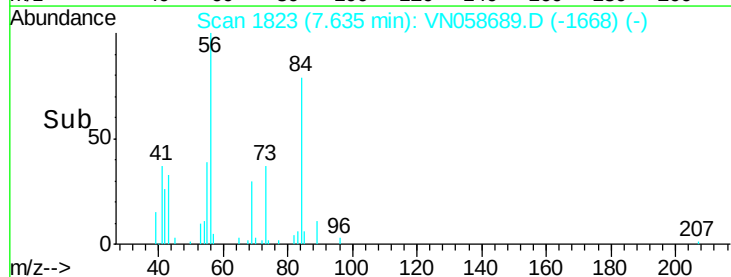
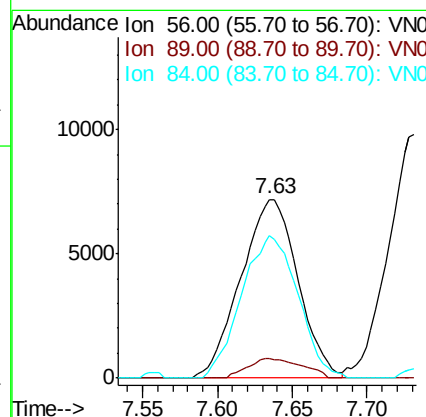
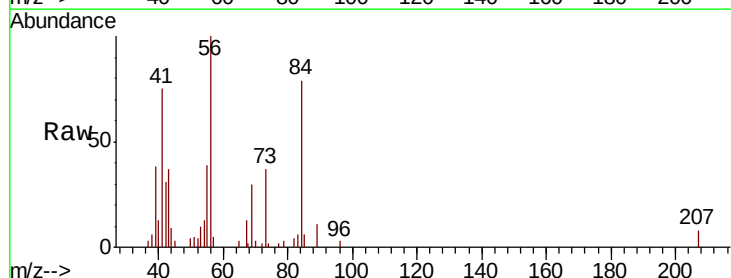
Manual Integrations
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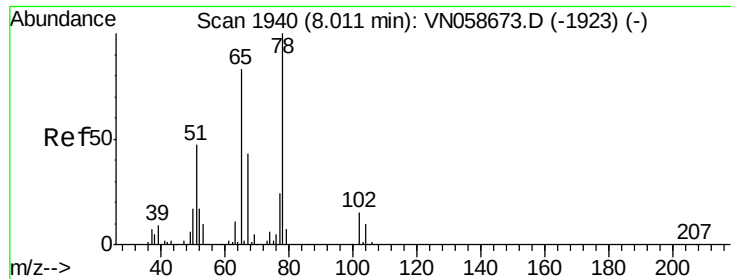
MMDadoda
10/14/2019 4:59:21 PM



#26
Cyclohexane
Concen: 2.712 ug/l
RT: 7.63 min Scan# 1823
Delta R.T. -0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tgt Ion	56	Resp	19062
Ion Ratio	100	Lower	Upper
56	100		
89	5.4	6.2	9.2#
84	78.9	65.6	98.4





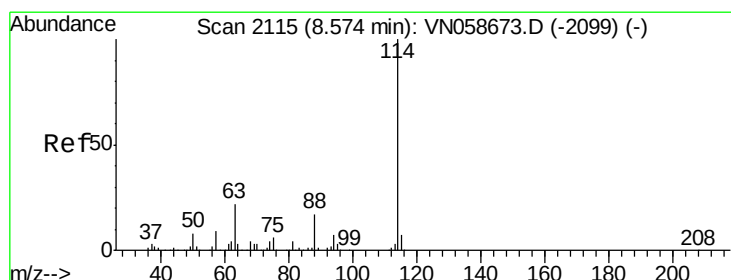
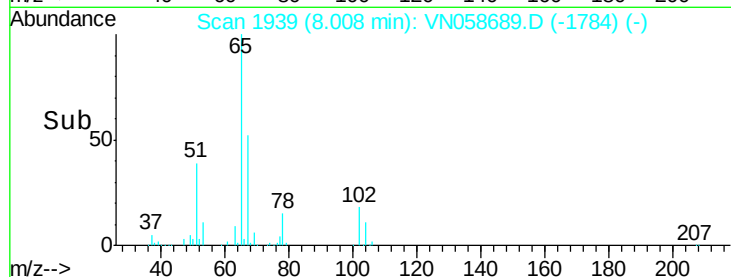
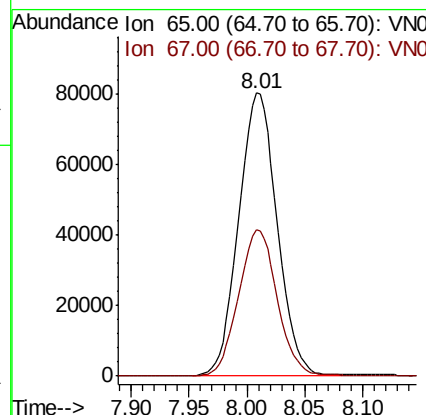
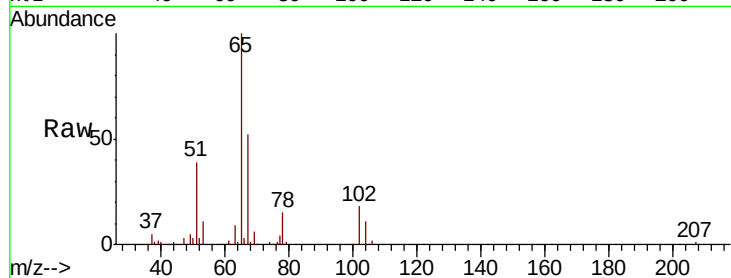
#27
 1,2-Dichloroethane-d4
 Concen: 31.975 ug/l
 RT: 8.01 min Scan# 1939
 Delta R.T. -0.00 min
 Lab File: VN058689.D
 Acq: 11 Oct 2019 9:41

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
65	100	185001		
67	51.9		41.5	62.3

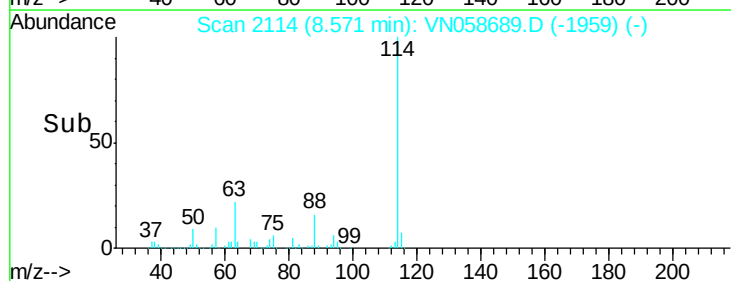
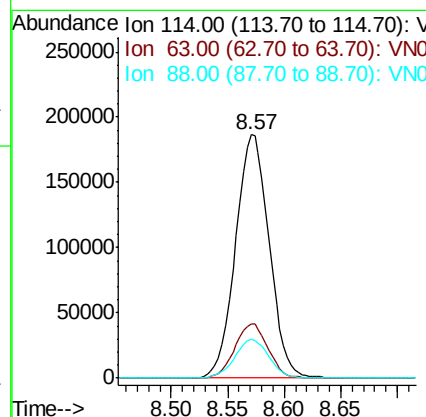
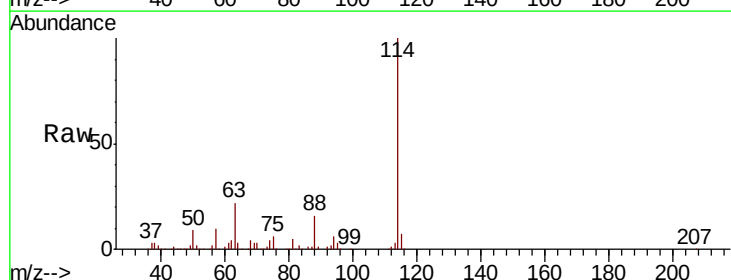
Manual Integrations
 APPROVED

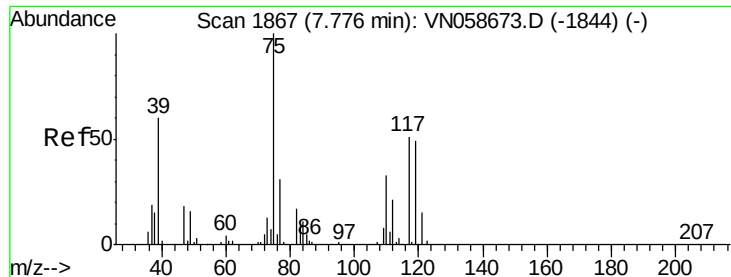
MMDadoda
 10/14/2019 4:59:21 PM



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VN058689.D
 Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	386349		
63	22.2		18.1	27.1
88	16.0		13.0	19.4





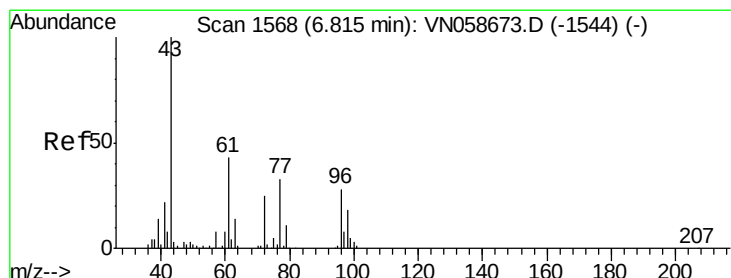
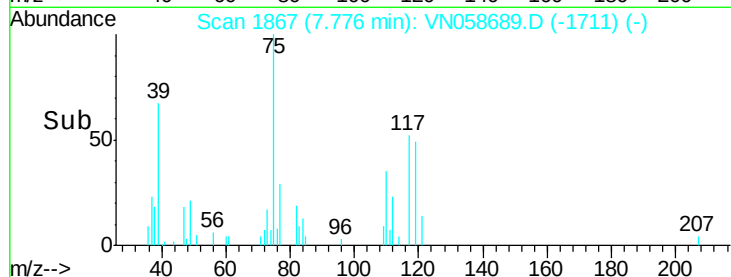
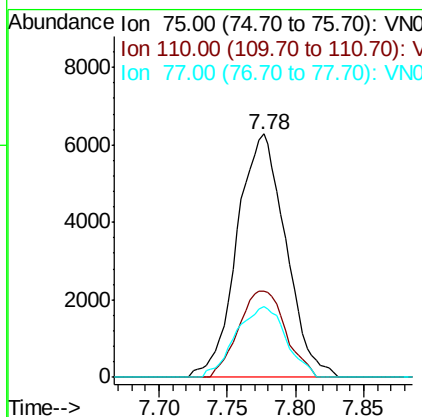
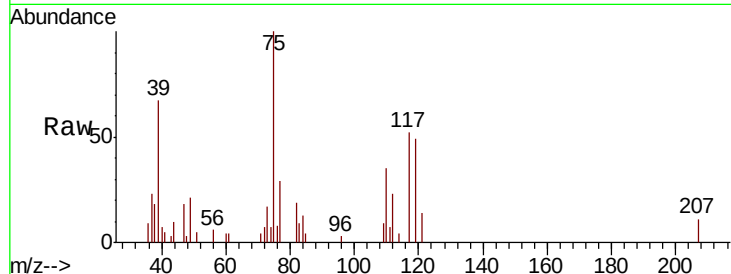
#29
 1,1-Dichloropropene
 Concen: 2.567 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN058689.D
 Acq: 11 Oct 2019 9:41

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Resp Lower	Upper
75	100		
110	34.0	0.0	64.6
77	29.9	0.0	60.8

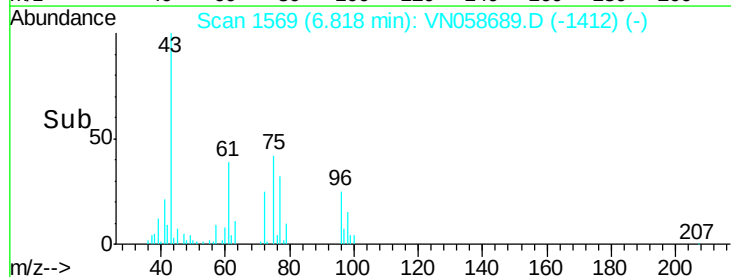
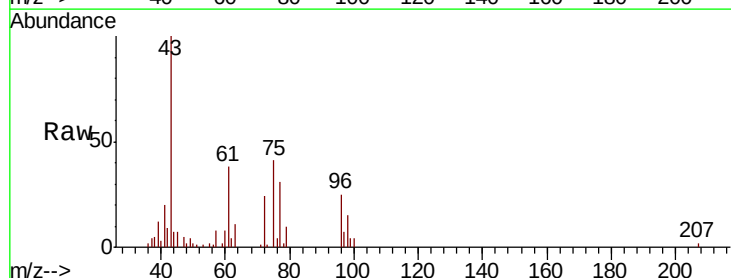
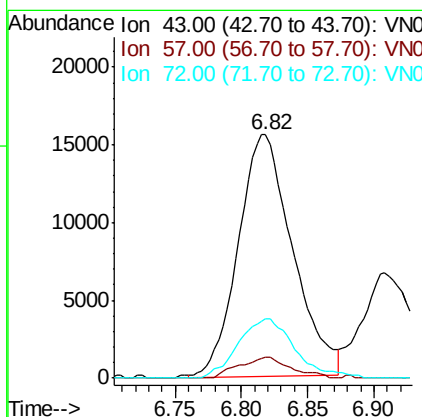
Manual Integrations
 APPROVED

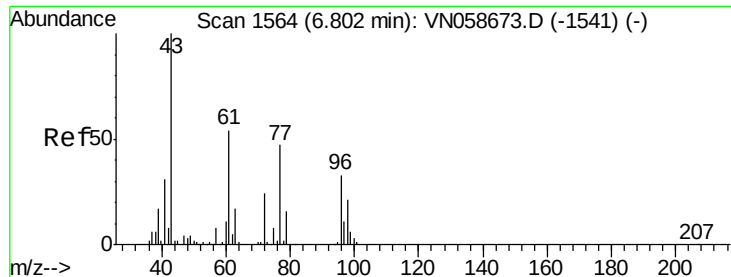
MMDadoda
 10/14/2019 4:59:21 PM



#30
 2-Butanone
 Concen: 12.970 ug/l
 RT: 6.82 min Scan# 1569
 Delta R.T. 0.00 min
 Lab File: VN058689.D
 Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	7.7	6.5	9.7
72	25.5	20.1	30.1





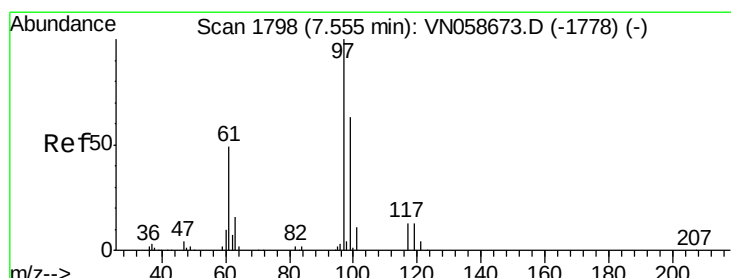
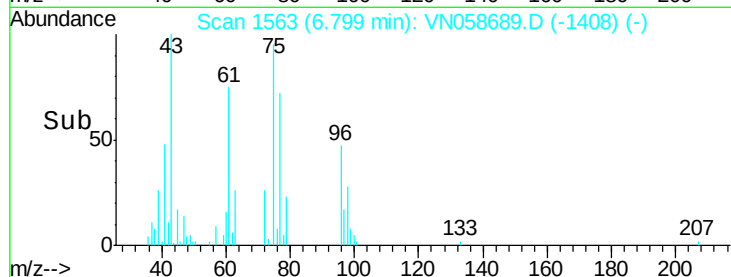
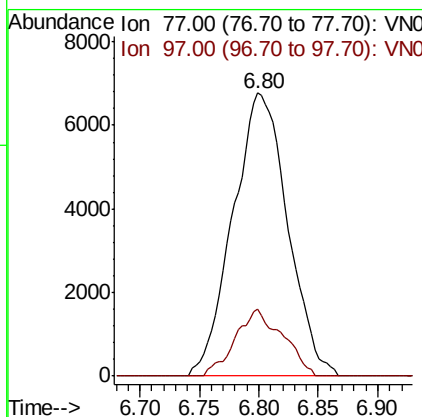
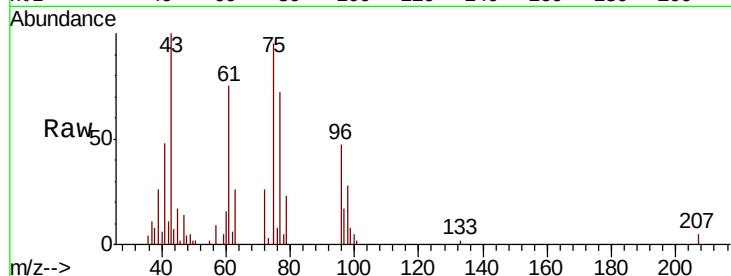
#31
 2,2-Dichloropropane
 Concen: 3.011 ug/l
 RT: 6.80 min Scan# 1563
 Delta R.T. -0.00 min
 Lab File: VN058689.D
 Acq: 11 Oct 2019 9:41

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
77	100		
97	20.5	17.9	26.9

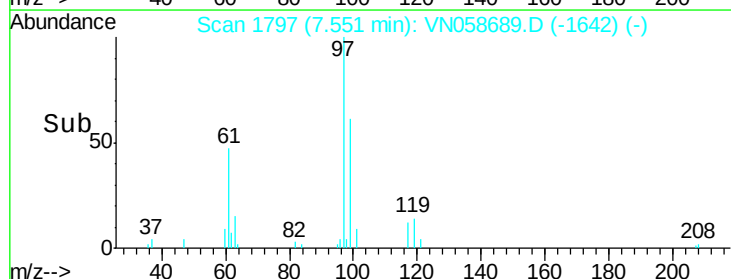
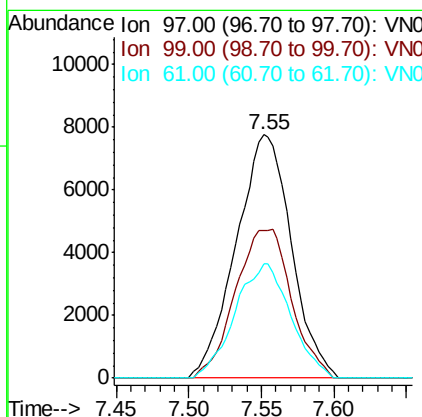
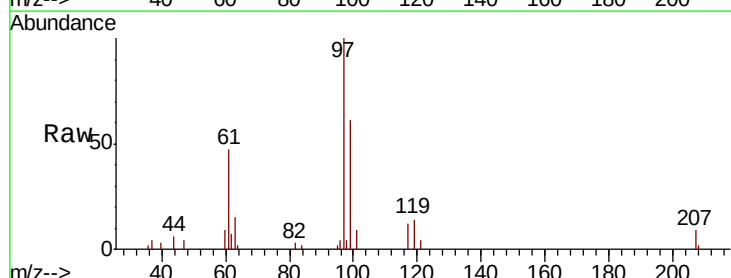
Manual Integrations
 APPROVED

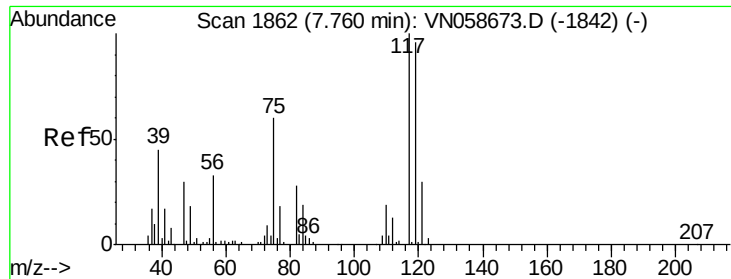
MMDadoda
 10/14/2019 4:59:21 PM



#32
 1,1,1-Trichloroethane
 Concen: 2.923 ug/l
 RT: 7.55 min Scan# 1797
 Delta R.T. -0.00 min
 Lab File: VN058689.D
 Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Lower	Upper
97	100		
99	37.6	51.3	76.9#
61	47.3	38.4	57.6





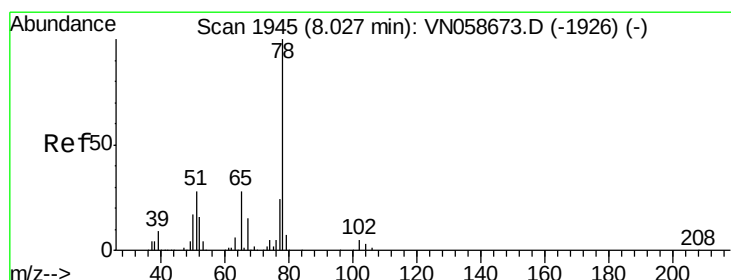
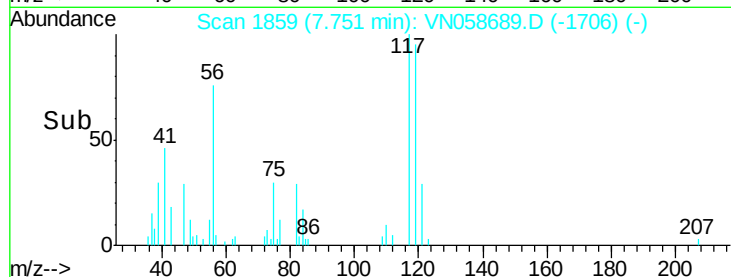
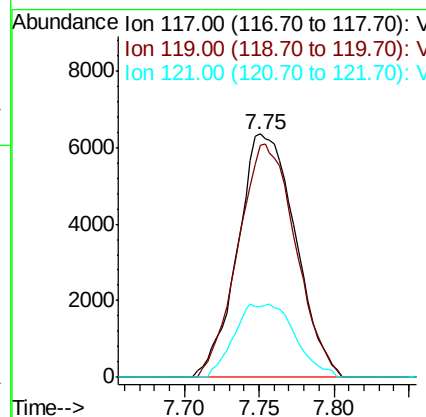
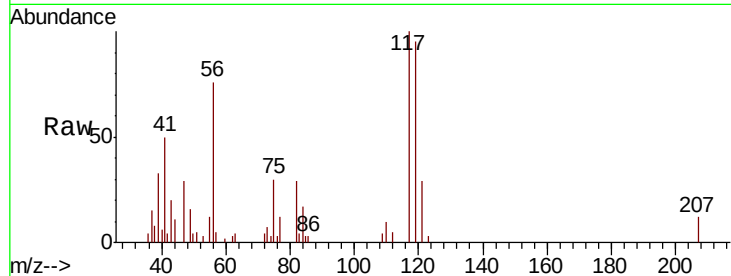
#33
Carbon Tetrachloride
Concen: 2.799 ug/l
RT: 7.75 min Scan# 1859
Delta R.T. -0.01 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
117	100		
119	95.2	76.9	115.3
121	29.1	23.8	35.8

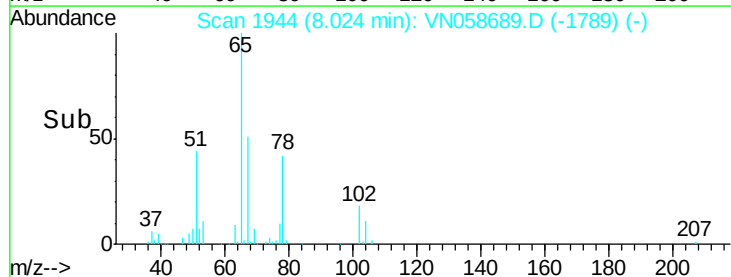
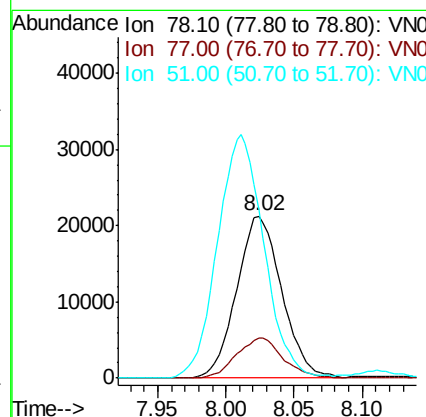
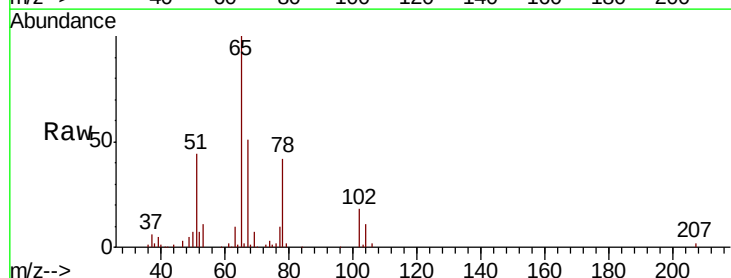
Manual Integrations
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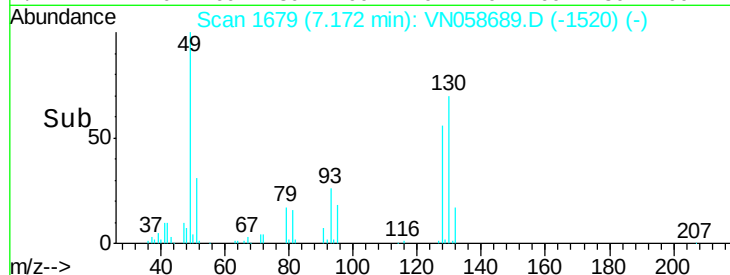
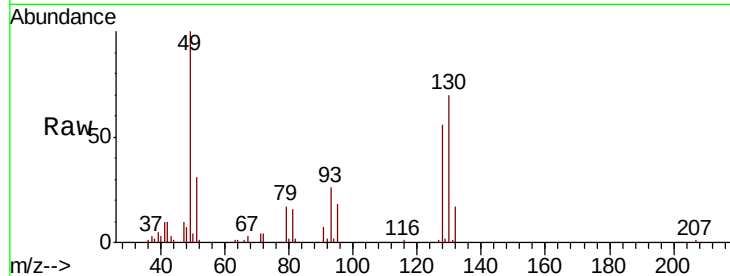
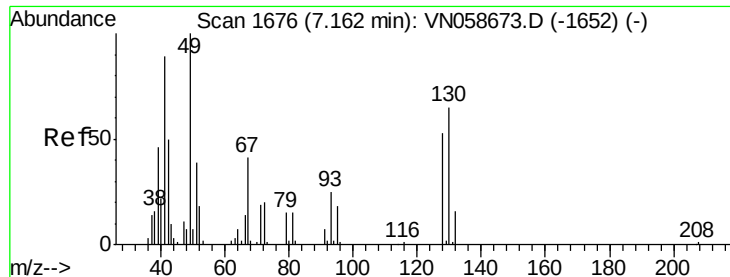
MMDadoda
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#34
Benzene
Concen: 2.728 ug/l
RT: 8.02 min Scan# 1944
Delta R.T. -0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.4	19.2	28.8
51	102.2	22.1	33.1#





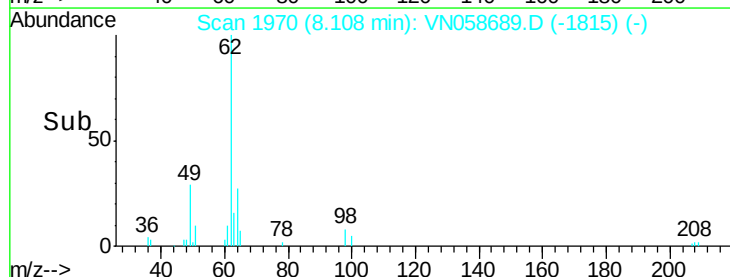
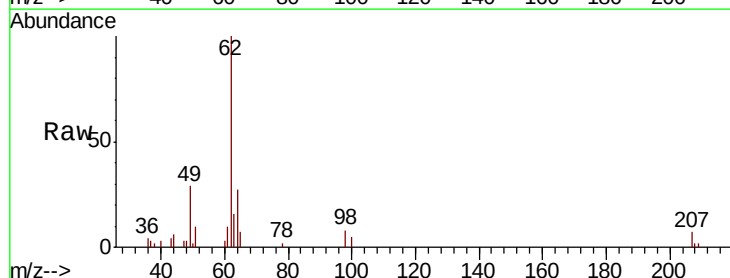
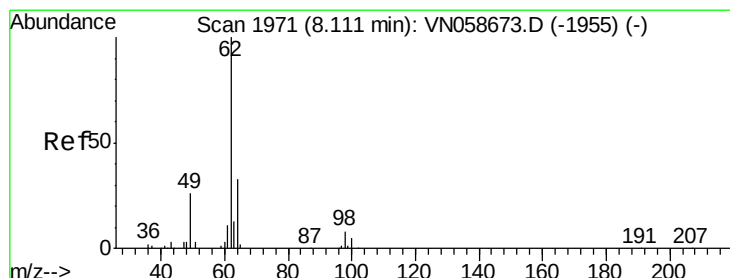
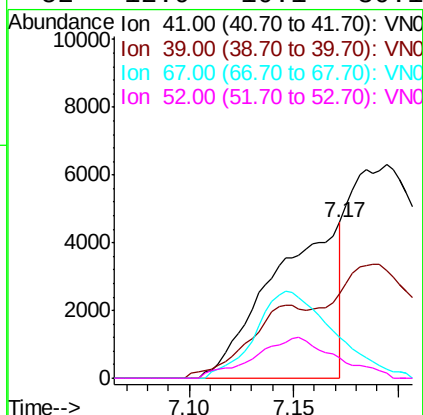
#35
Methacrylonitrile
Concen: 3.465 ug/l m
RT: 7.17 min Scan# 1679
Delta R.T. 0.01 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tot Ion	41	Resp	10519
Ion Ratio	Lower	Upper	
41	100		
39	54.2	25.8	77.4
67	25.9	23.0	69.0
52	12.9	10.1	30.1

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

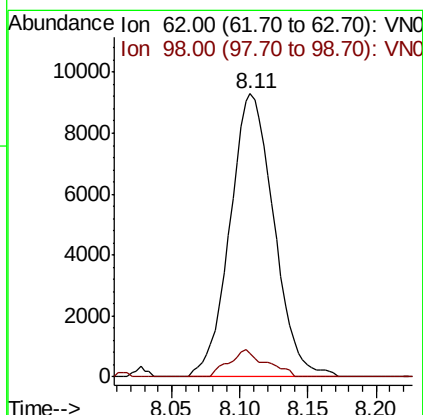
Manual Integrations
APPROVED

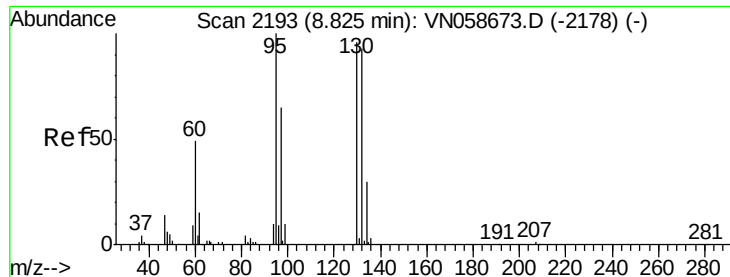
MMDadoda
10/14/2019 4:59:21 PM



#36
1,2-Dichloroethane
Concen: 3.035 ug/l
RT: 8.11 min Scan# 1970
Delta R.T. -0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tgt Ion	62	Resp	20775
Ion Ratio	Lower	Upper	
62	100		
98	6.2	6.4	9.6#





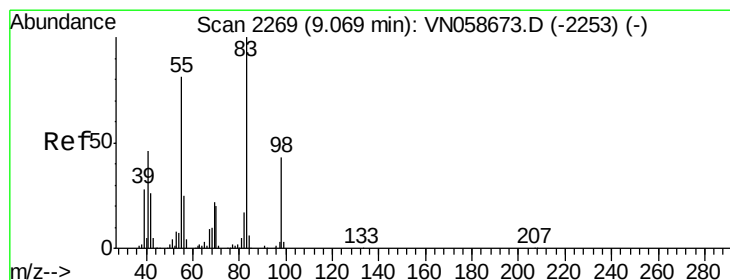
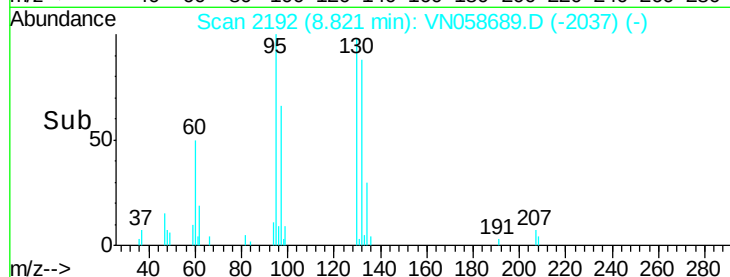
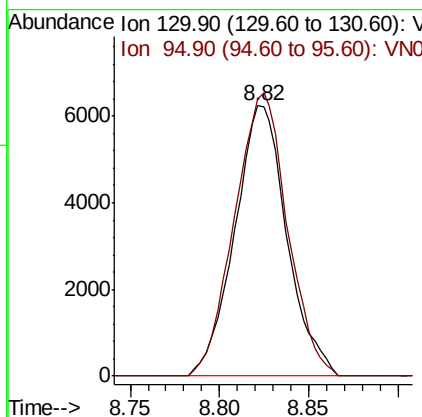
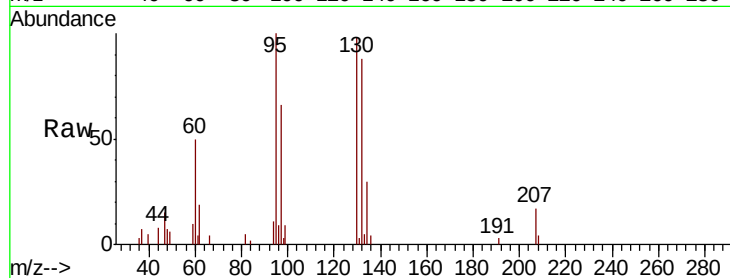
#37
 Trichloroethene
 Concen: 2.894 ug/l
 RT: 8.82 min Scan# 2192
 Delta R.T. -0.00 min
 Lab File: VN058689.D
 Acq: 11 Oct 2019 9:41

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Tot Ion: 130 Resp: 12731
 Ion Ratio Lower Upper
 130 100
 95 102.4 83.2 124.8

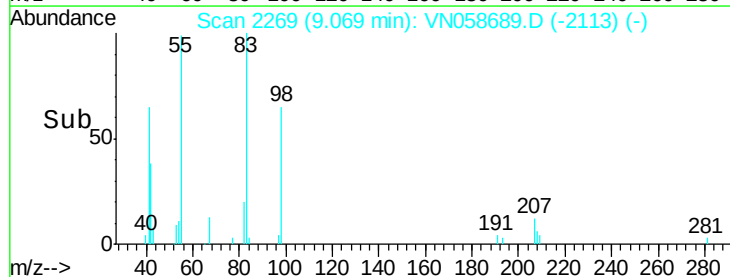
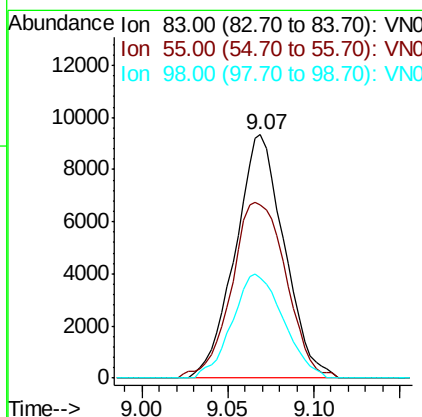
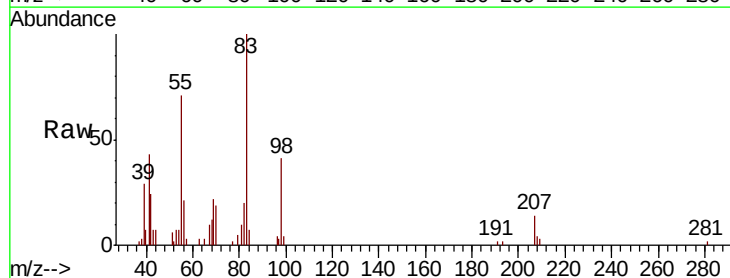
Manual Integrations
 APPROVED

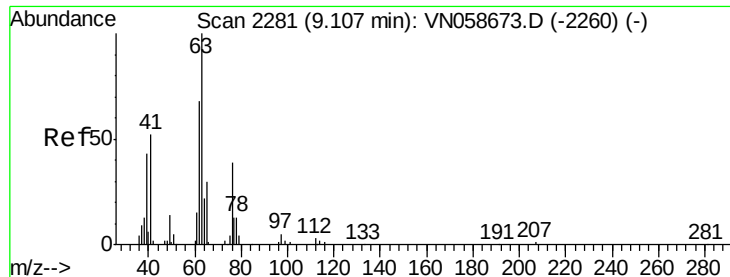
MMDadoda
 10/14/2019 4:59:21 PM



#38
 Methylcyclohexane
 Concen: 2.621 ug/l
 RT: 9.07 min Scan# 2269
 Delta R.T. 0.00 min
 Lab File: VN058689.D
 Acq: 11 Oct 2019 9:41

Tgt Ion: 83 Resp: 18478
 Ion Ratio Lower Upper
 83 100
 55 79.9 40.4 121.1
 98 44.8 21.6 65.0





#39

1,2-Dichloropropane

Concen: 2.929 ug/l

RT: 9.10 min Scan# 2280

Delta R.T. -0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion: 63 Resp: 14334

Ion Ratio Lower Upper

63 100

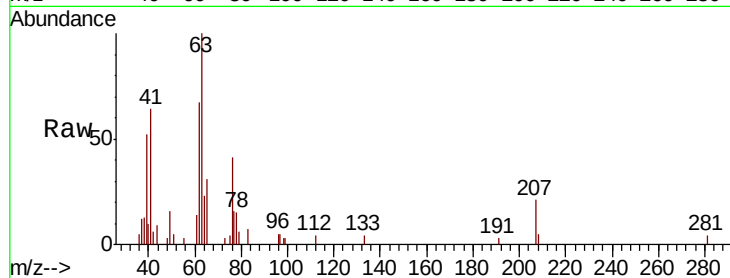
65 31.1 23.8 35.6

Manual Integrations

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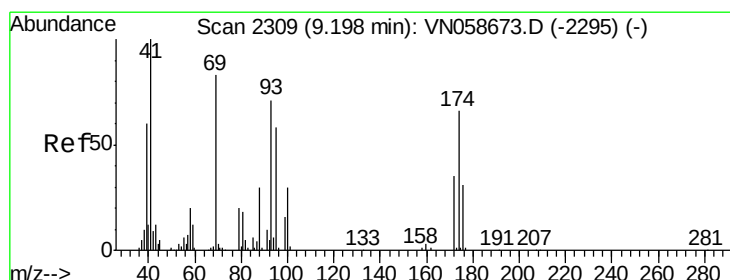
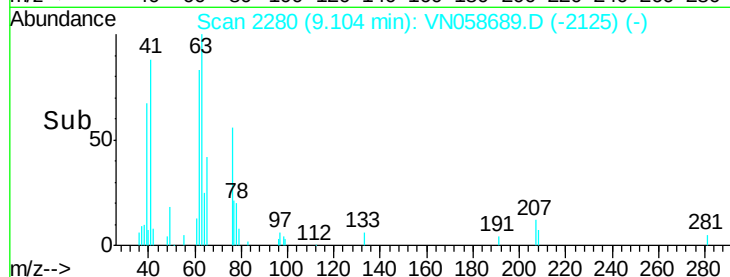
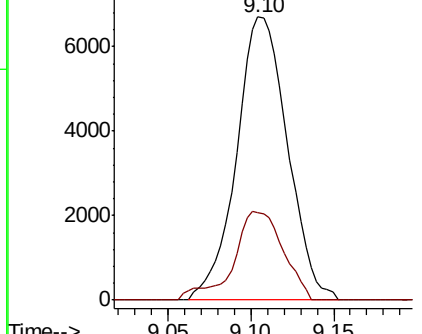
MMDadoda

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Abundance Ion 63.00 (62.70 to 63.70): VN058673.D (-2260) (-)

Ion 65.00 (64.70 to 65.70): VN058673.D (-2260) (-)



#40

Dibromomethane

Concen: 2.867 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. -0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

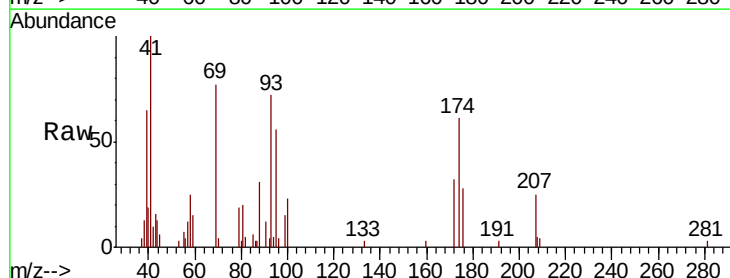
Tgt Ion: 93 Resp: 8857

Ion Ratio Lower Upper

93 100

95 85.0 0.0 167.6

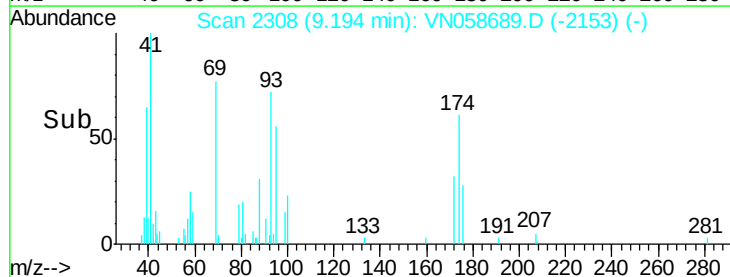
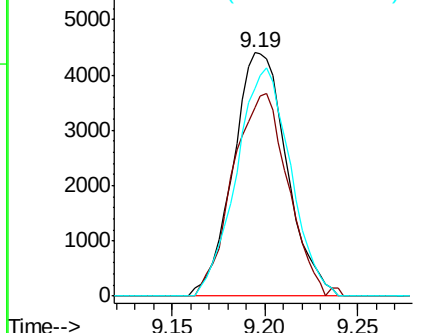
174 93.9 0.0 187.2

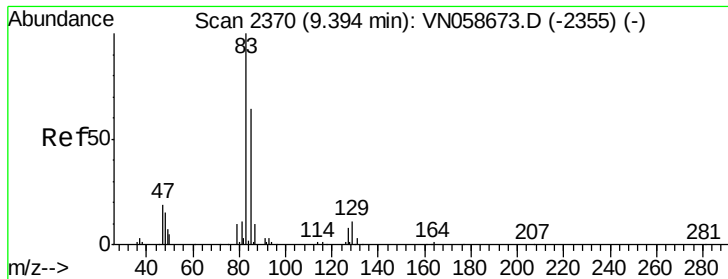


Abundance Ion 93.00 (92.70 to 93.70): VN058673.D (-2295) (-)

Ion 95.00 (94.70 to 95.70): VN058673.D (-2295) (-)

Ion 174.00 (173.70 to 174.70): VN058673.D (-2295) (-)





#41

Bromodichloromethane

Concen: 2.709 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. -0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Instrument :

MSVOA_N

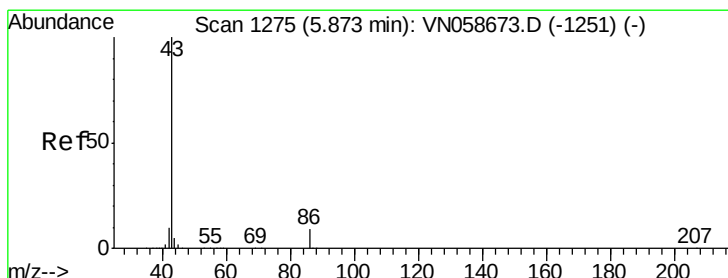
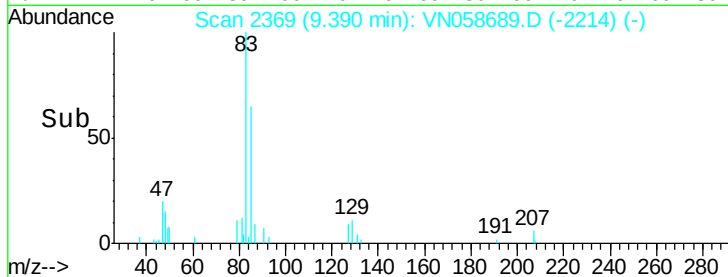
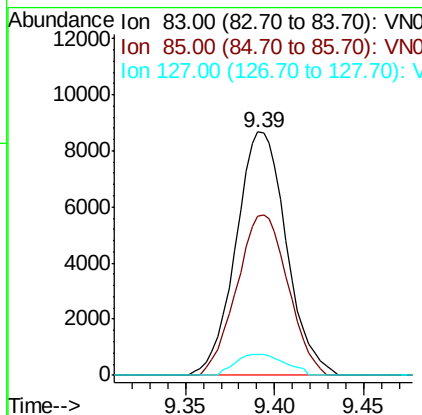
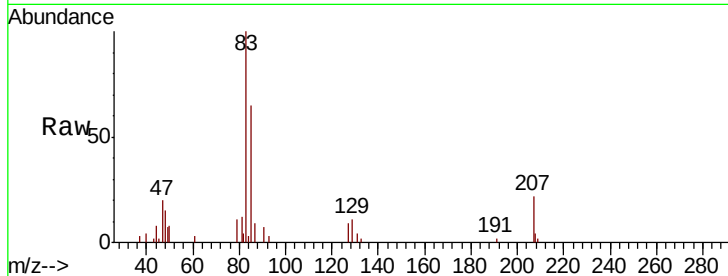
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion:	83	Resp:	17093
Ion Ratio	Lower	Upper	
83	100		
85	65.5	51.0	76.4
127	8.8	6.6	9.8

Manual Integrations
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10/14/2019 4:59:21 PM



#42

Vinyl Acetate

Concen: 13.192 ug/l

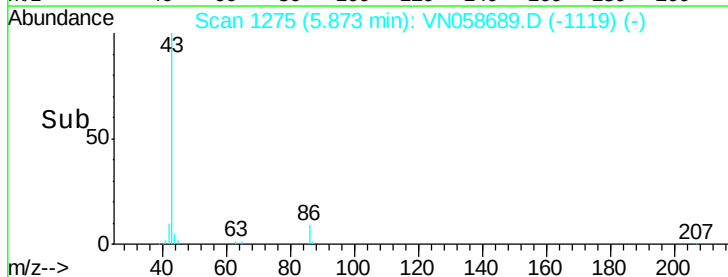
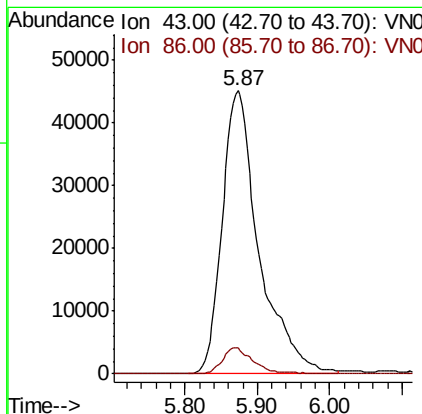
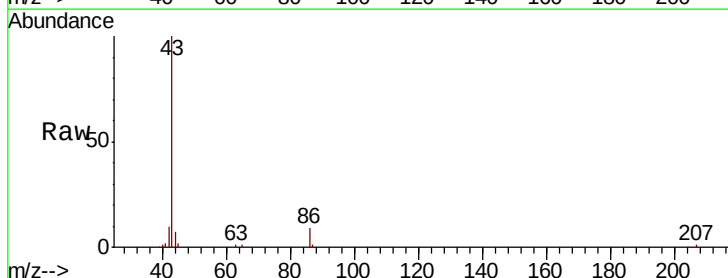
RT: 5.87 min Scan# 1275

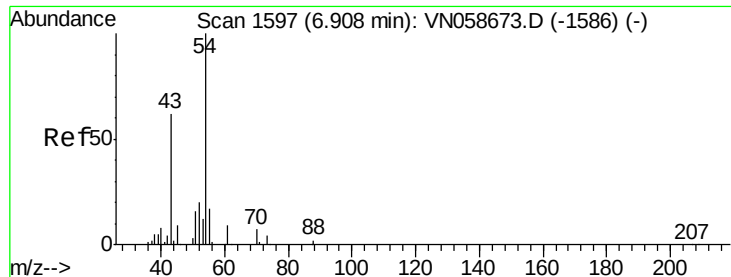
Delta R.T. 0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Tgt Ion:	43	Resp:	158782
Ion Ratio	Lower	Upper	
43	100		
86	7.6	6.5	9.7





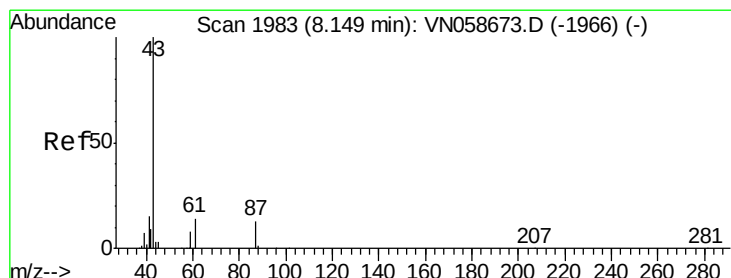
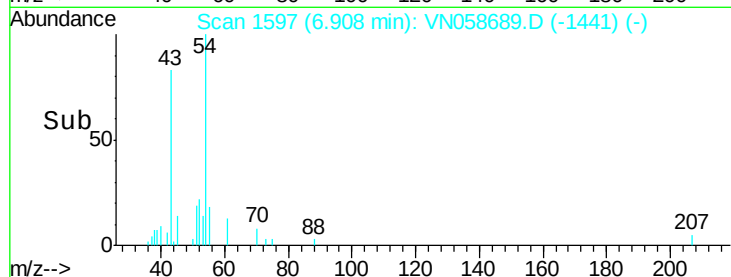
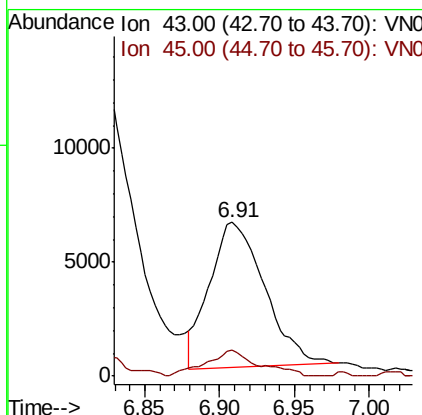
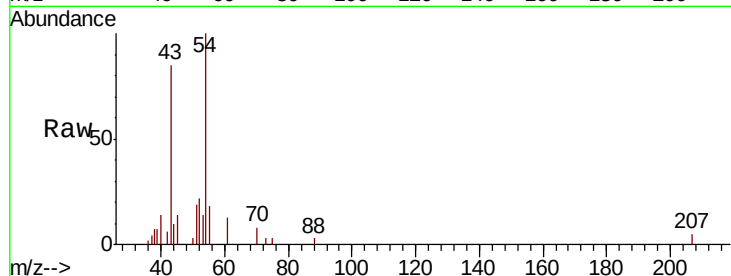
#43
Ethyl Acetate
Concen: 2.420 ug/l
RT: 6.91 min Scan# 1597
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 43 Resp: 16326
Ion Ratio Lower Upper
43 100
45 13.9 9.7 14.5

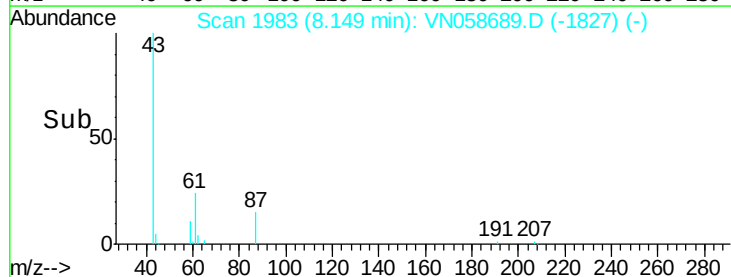
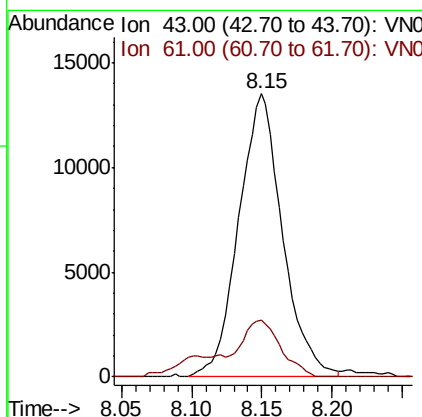
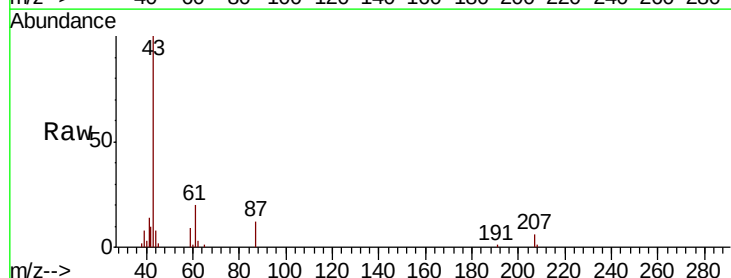
Manual Integrations
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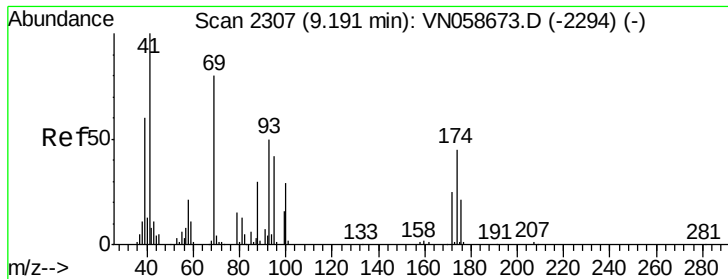
MMDadoda
10/14/2019 4:59:21 PM



#44
Isopropyl Acetate
Concen: 2.683 ug/l
RT: 8.15 min Scan# 1983
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tgt Ion: 43 Resp: 29311
Ion Ratio Lower Upper
43 100
61 17.7 19.9 29.9#





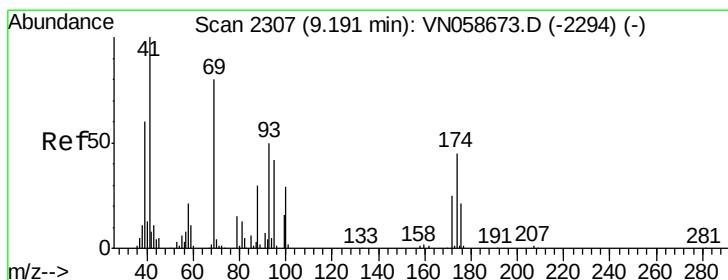
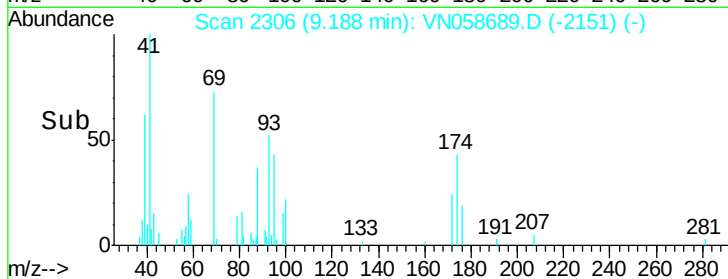
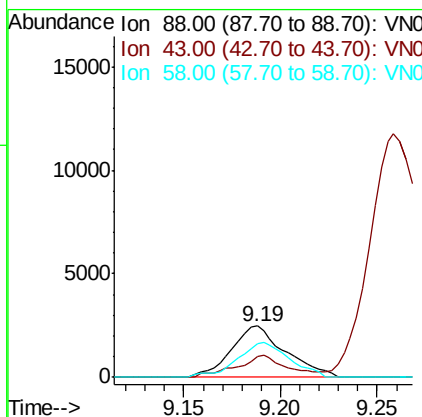
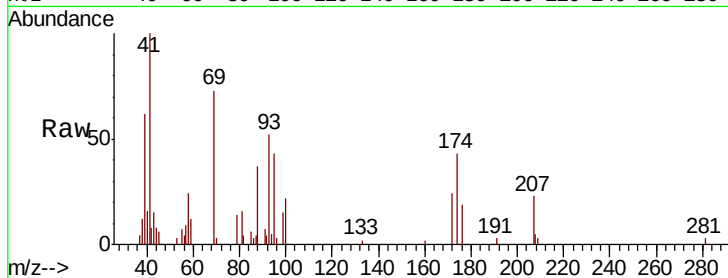
#45
 1,4-Dioxane
 Concen: 58.343 ug/l
 RT: 9.19 min Scan# 2306
 Delta R.T. -0.00 min
 Lab File: VN058689.D
 Acq: 11 Oct 2019 9:41

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
88	100		
43	24.3	29.8	44.8#
58	64.4	58.2	87.4

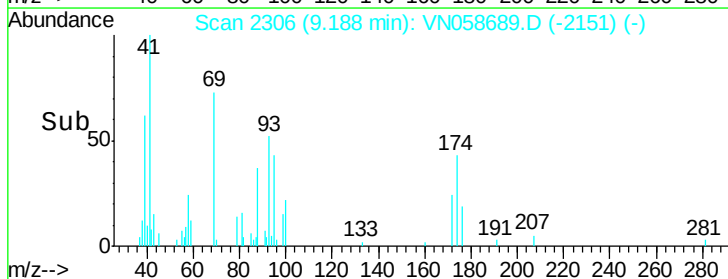
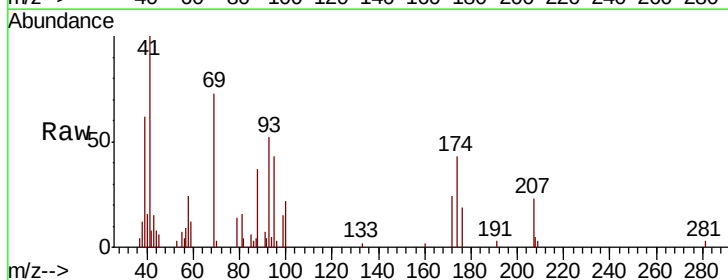
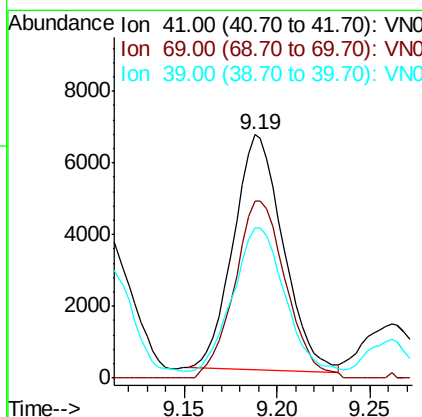
Manual Integrations
 APPROVED

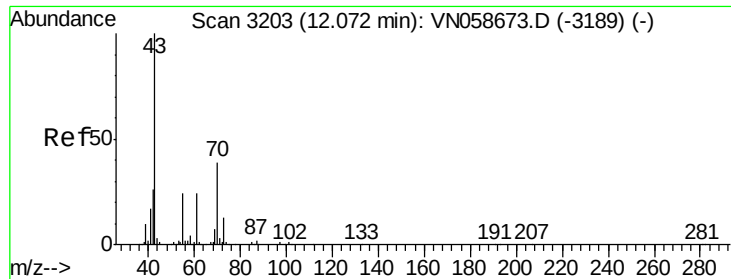
MMDadoda
 10/14/2019 4:59:21 PM



#46
 Methyl methacrylate
 Concen: 2.442 ug/l
 RT: 9.19 min Scan# 2306
 Delta R.T. -0.00 min
 Lab File: VN058689.D
 Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Lower	Upper
41	100		
69	75.9	40.2	120.5
39	61.4	29.9	89.8





#47

n-amvl Acetate

Concen: 2.196 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion: 43 Resp: 21269

Ion Ratio Lower Upper

43 100

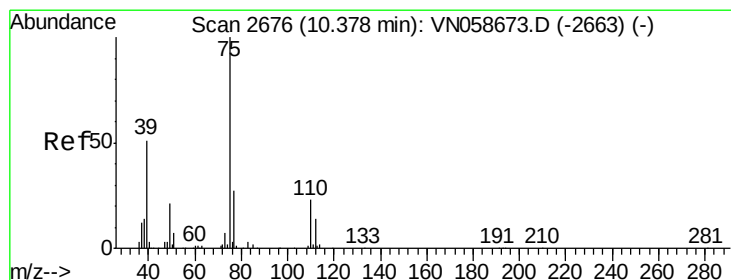
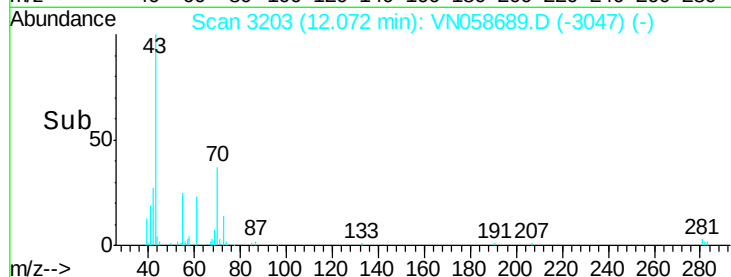
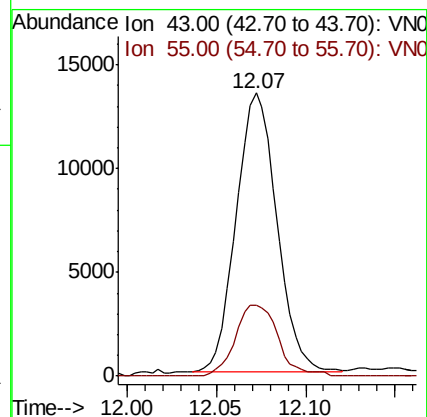
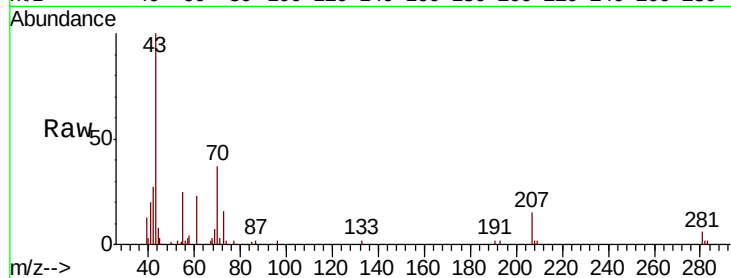
55 26.5 19.6 29.4

Manual Integrations

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#48

t-1,3-Dichloropropene

Concen: 2.761 ug/l m

RT: 10.38 min Scan# 2676

Delta R.T. 0.00 min

Lab File: VN058689.D

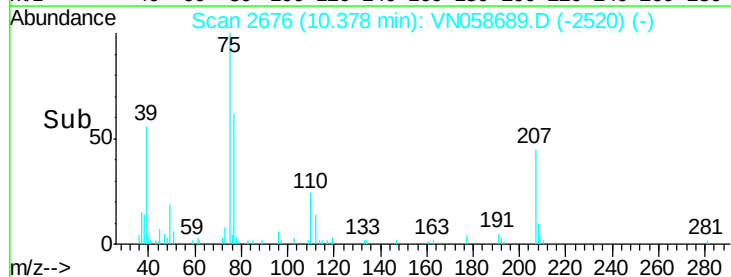
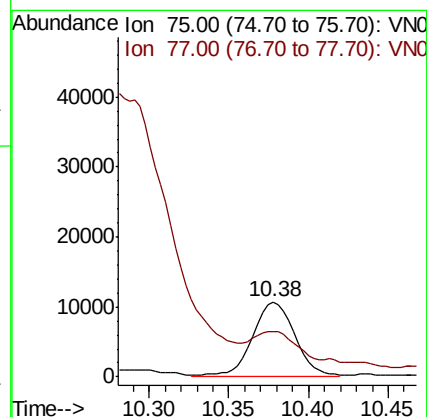
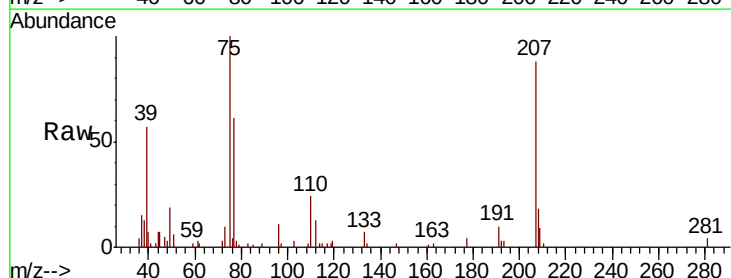
Acq: 11 Oct 2019 9:41

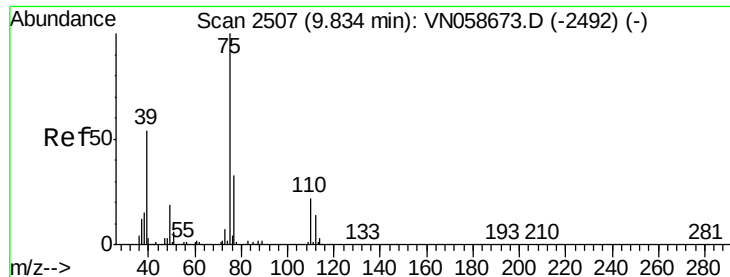
Tgt Ion: 75 Resp: 20208

Ion Ratio Lower Upper

75 100

77 61.0 27.0 40.4#





#49

cis-1,3-Dichloropropene

Concen: 2.590 ug/l

RT: 9.83 min Scan# 2506

Delta R.T. -0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Instrument :

MSVOA_N

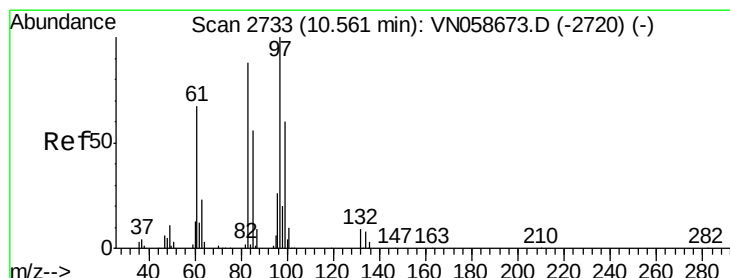
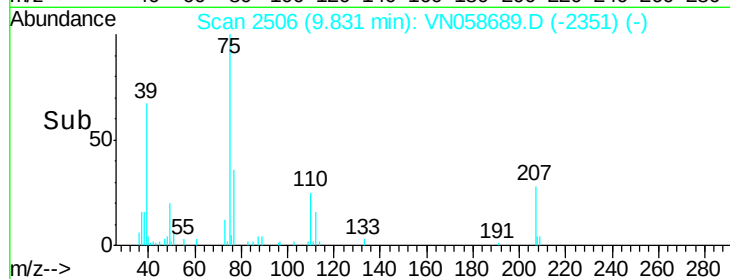
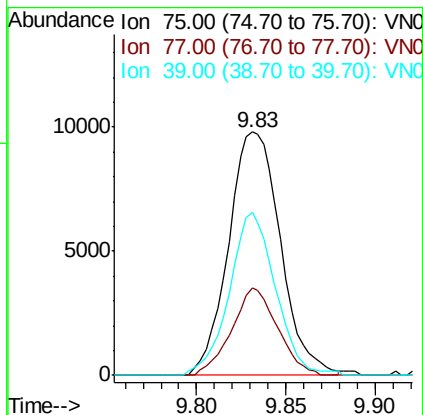
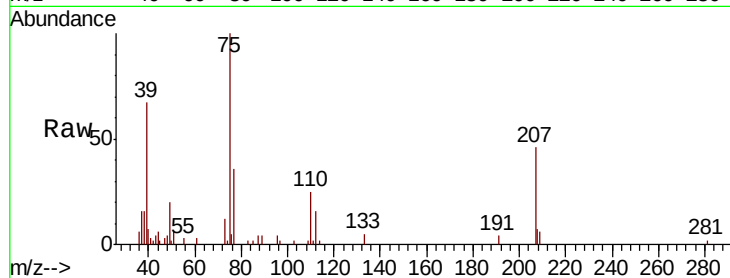
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion:	75	Resp:	19904
Ion Ratio	Lower	Upper	
75	100		
77	35.9	26.1	39.1
39	65.3	43.1	64.7#

Manual Integrations
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#50

1,1,2-Trichloroethane

Concen: 2.922 ug/l

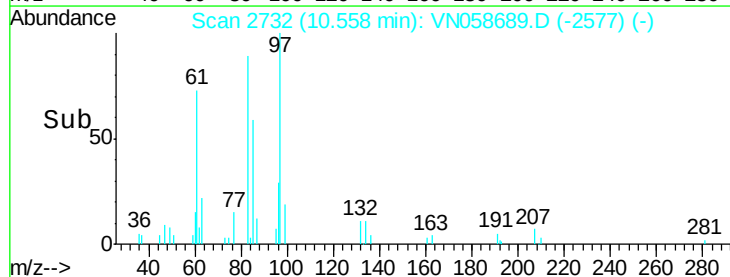
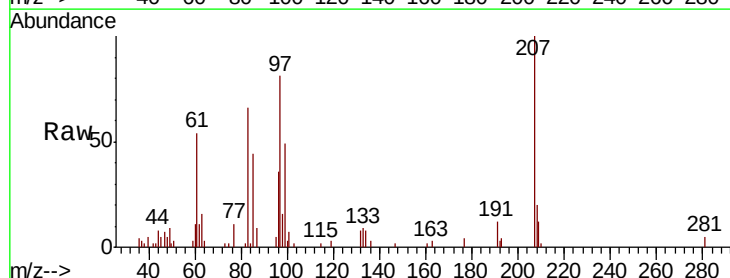
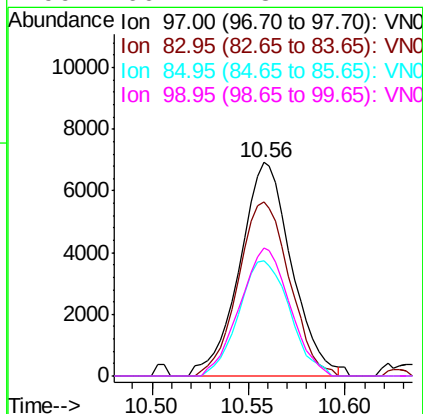
RT: 10.56 min Scan# 2732

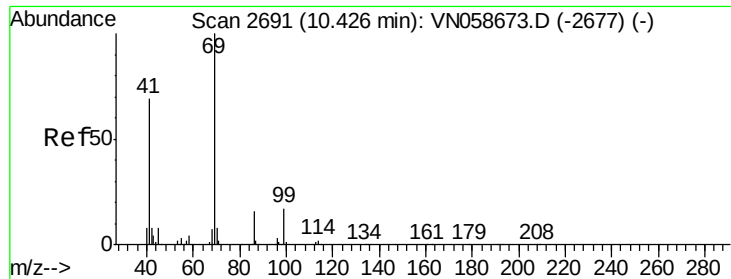
Delta R.T. -0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Tgt Ion:	97	Resp:	12883
Ion Ratio	Lower	Upper	
97	100		
83	81.3	70.7	106.1
85	53.8	45.1	67.7
99	60.1	48.2	72.4





#51

Ethyl methacrylate

Concen: 2.270 ug/l

RT: 10.43 min Scan# 2691

Delta R.T. 0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Instrument :

MSVOA_N

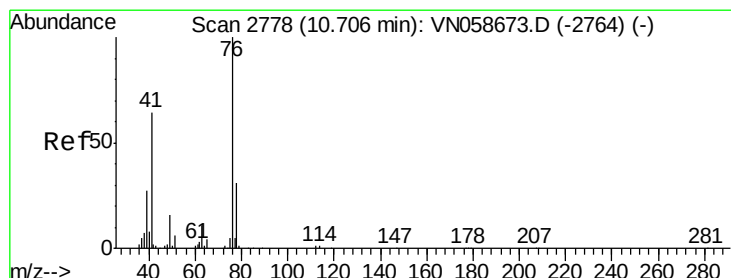
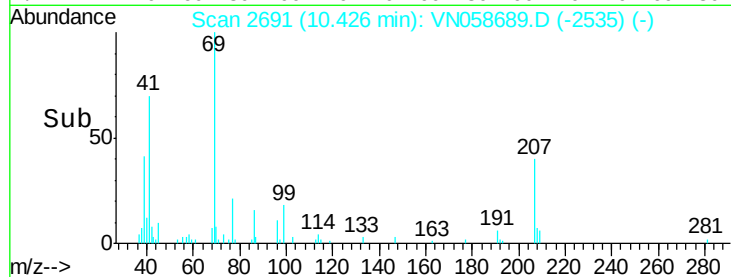
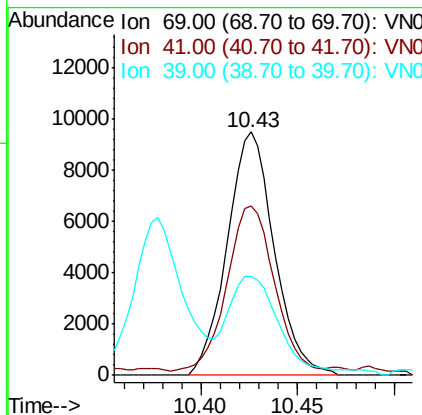
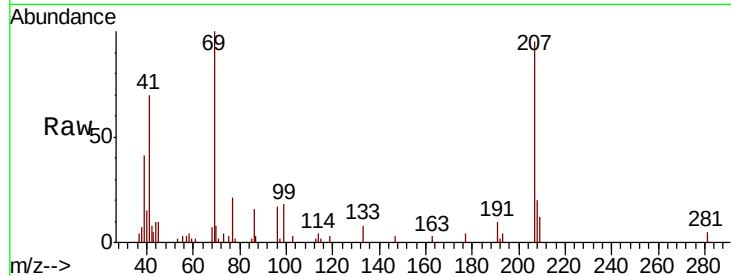
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion:	69	Resp:	16005
Ion Ratio	Lower	Upper	
69	100		
41	66.6	34.7	104.1
39	38.5	20.3	60.8

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 2.739 ug/l

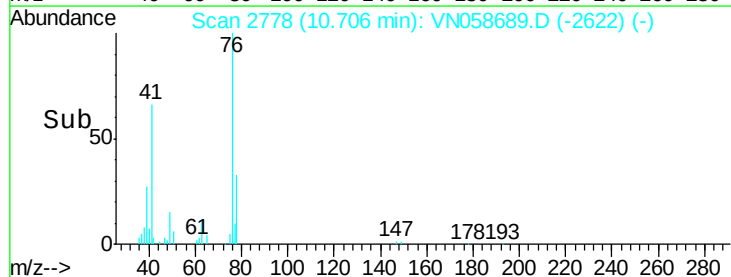
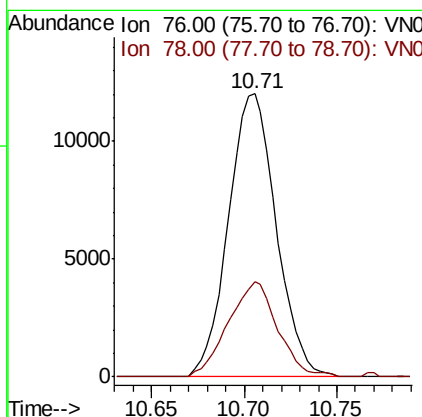
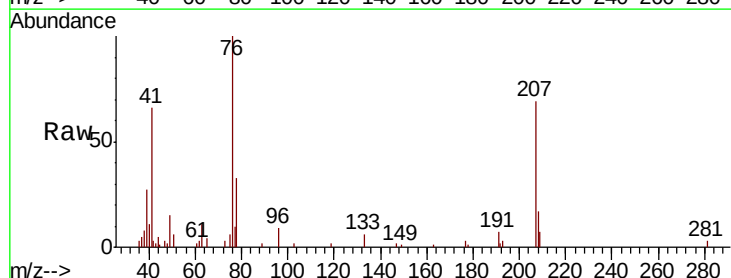
RT: 10.71 min Scan# 2778

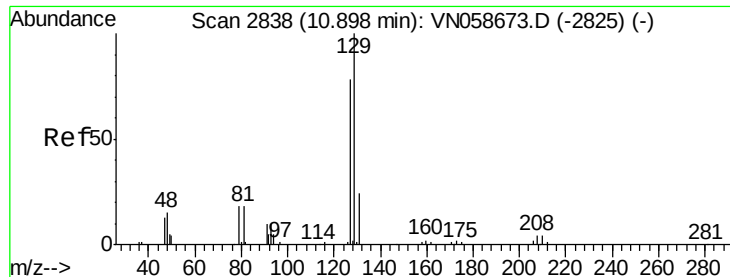
Delta R.T. 0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Tgt Ion:	76	Resp:	21512
Ion Ratio	Lower	Upper	
76	100		
78	34.5	0.0	63.2





#53

Dibromochloromethane

Concen: 2.548 ug/l

RT: 10.90 min Scan# 2838

Delta R.T. 0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion:129 Resp: 12056

Ion Ratio Lower Upper

129 100

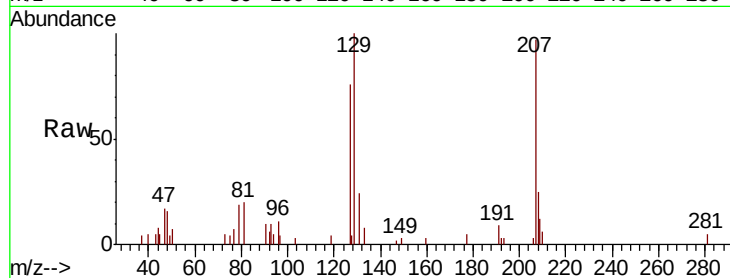
127 74.7 39.1 117.5

Manual Integrations

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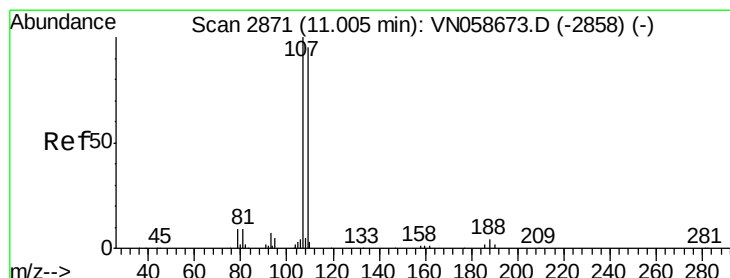
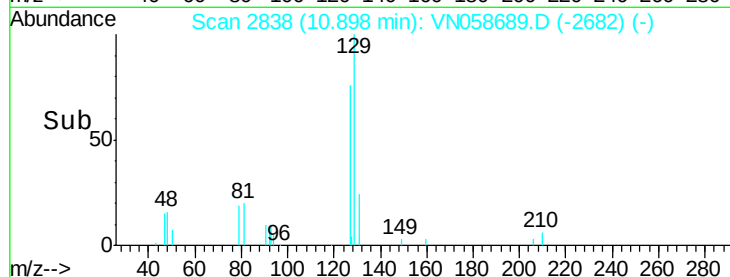
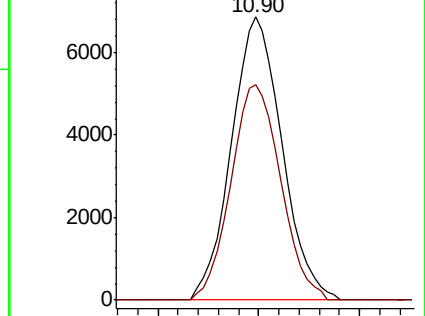
MMDadoda

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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: 2.643 ug/l

RT: 11.00 min Scan# 2871

Delta R.T. 0.00 min

Lab File: VN058689.D

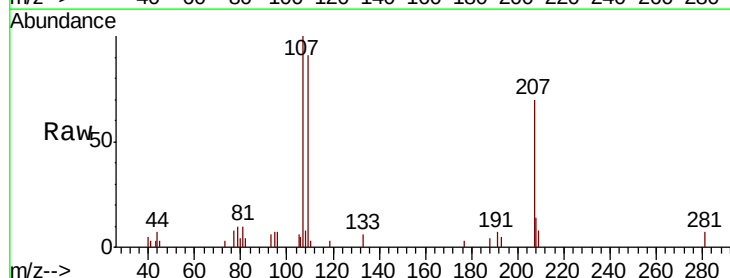
Acq: 11 Oct 2019 9:41

Tgt Ion:107 Resp: 12079

Ion Ratio Lower Upper

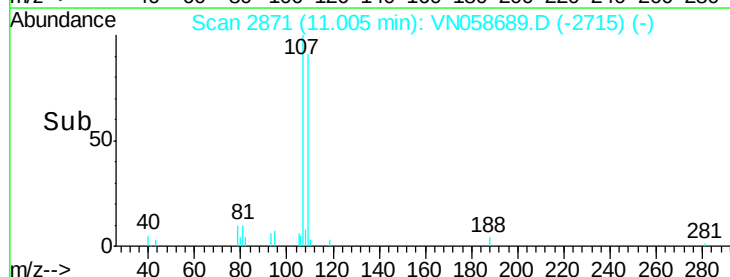
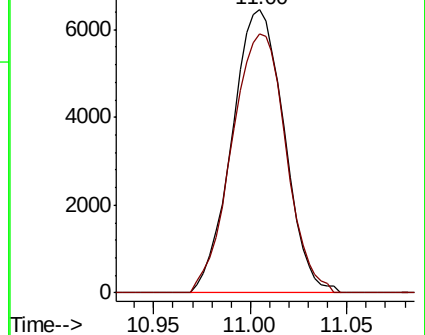
107 100

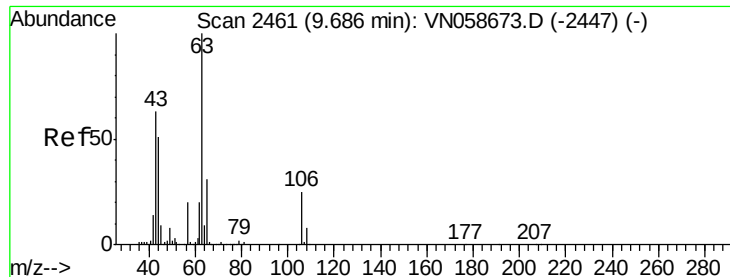
109 95.1 76.2 114.4



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: 11.783 ug/l

RT: 9.69 min Scan# 2461

Delta R.T. 0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Instrument :

MSVOA_N

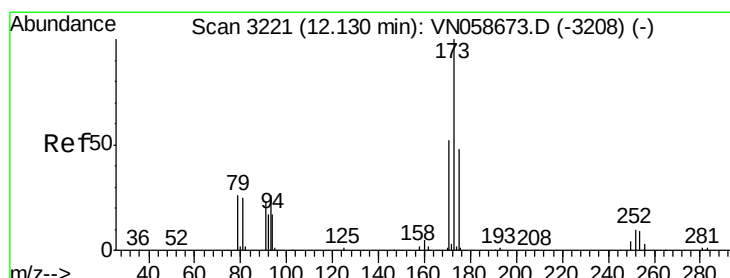
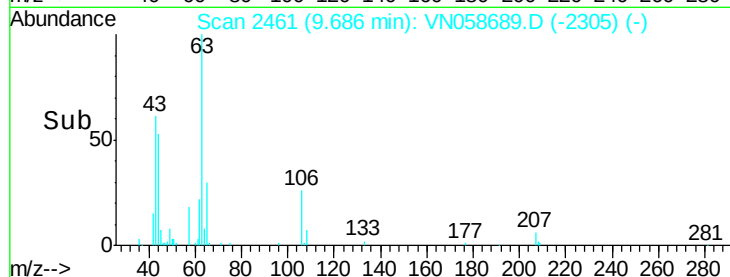
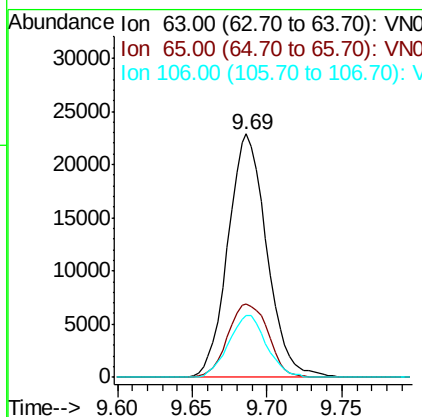
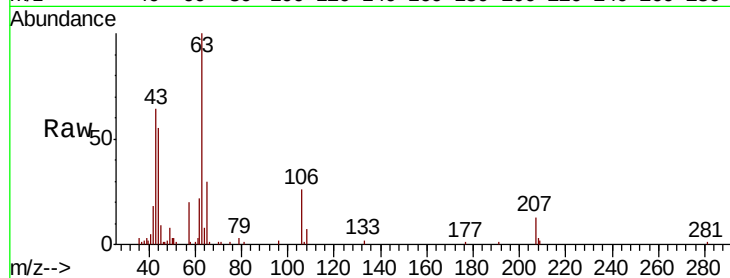
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion:	63	Resp:	41328
Ion	Ratio	Lower	Upper
63	100		
65	31.4	25.3	37.9
106	24.8	19.8	29.6

Manual Integrations
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#56

Bromoform

Concen: 2.377 ug/l

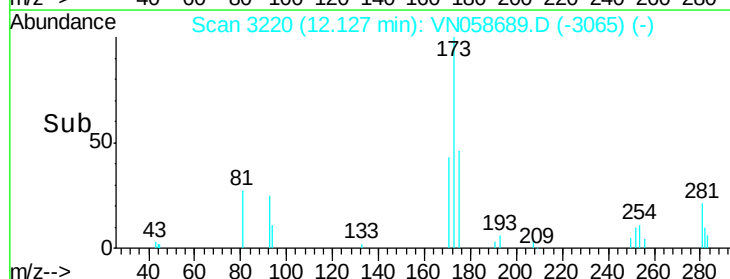
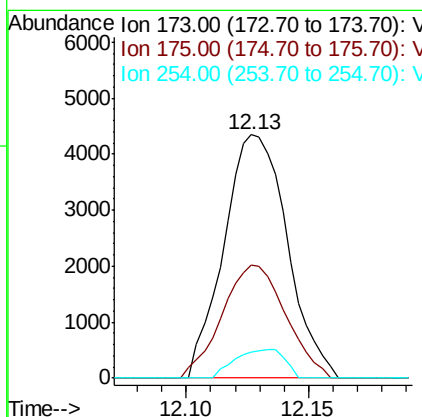
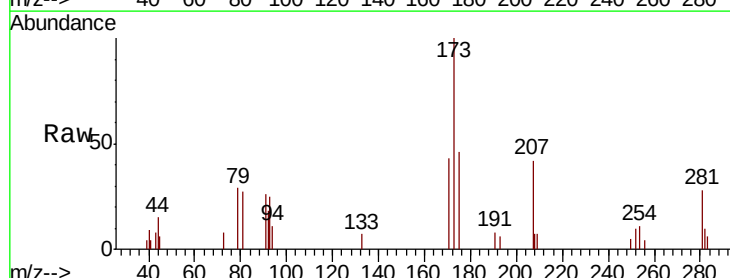
RT: 12.13 min Scan# 3220

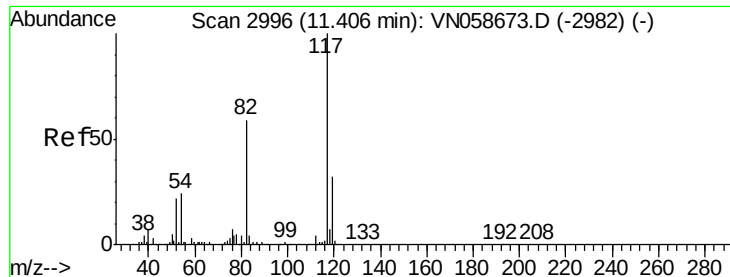
Delta R.T. -0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Tgt Ion:	173	Resp:	7837
Ion	Ratio	Lower	Upper
173	100		
175	46.6	38.7	58.1
254	9.2	7.4	11.2





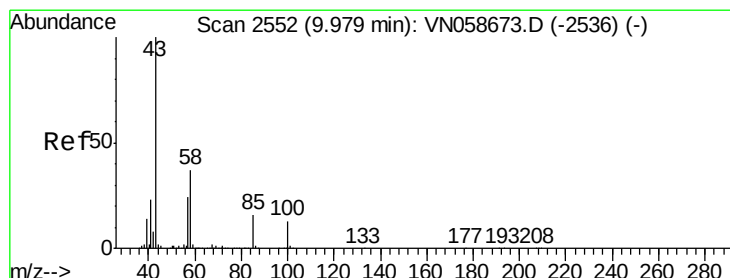
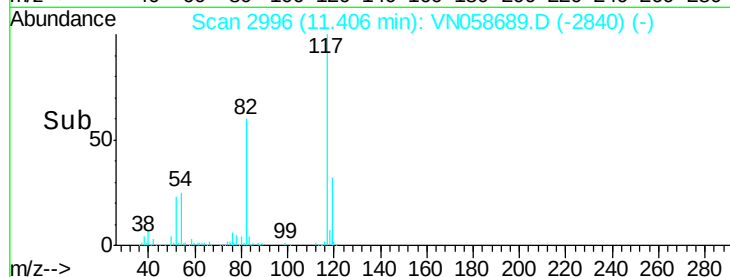
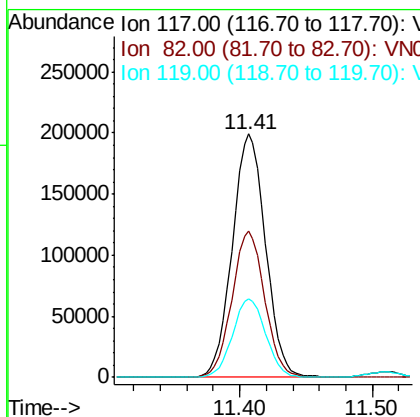
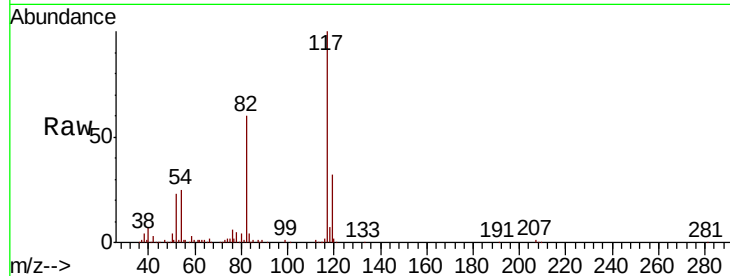
#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
117	100	346564		
82	58.9	46.9	70.3	
119	32.2	25.8	38.6	

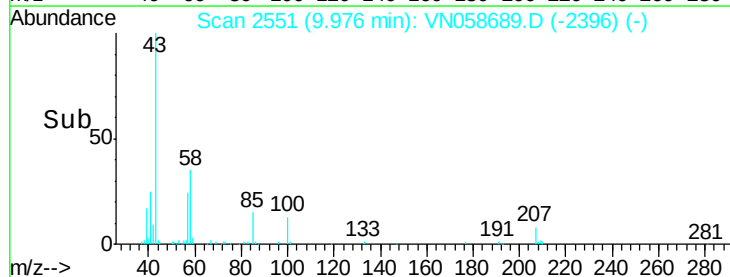
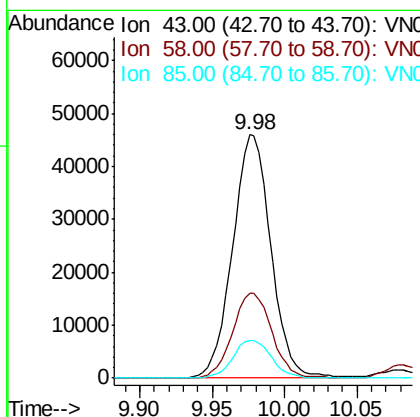
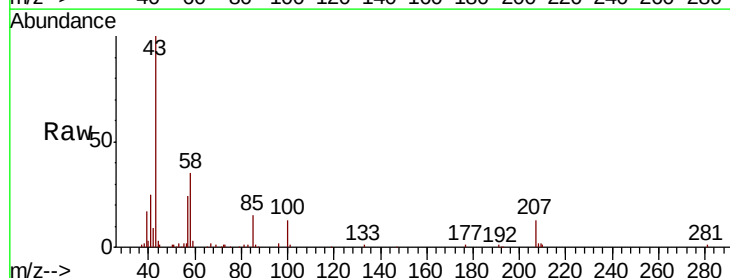
Manual Integrations
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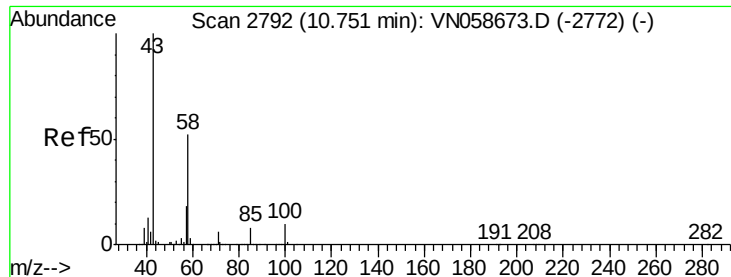
MMDadoda
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#58
4-Methyl-2-Pentanone
Concen: 13.328 ug/l
RT: 9.98 min Scan# 2551
Delta R.T. -0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	84262		
58	35.8	30.1	45.1	
85	15.7	13.2	19.8	





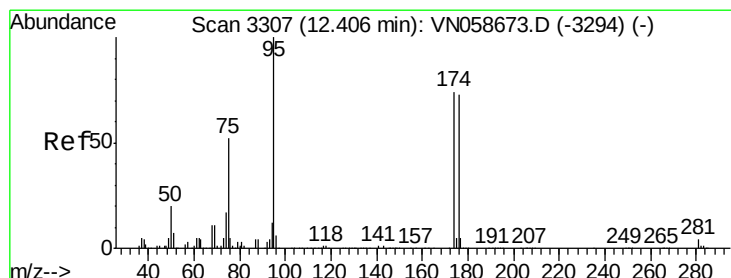
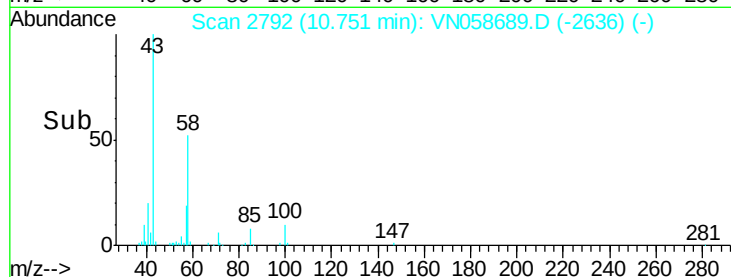
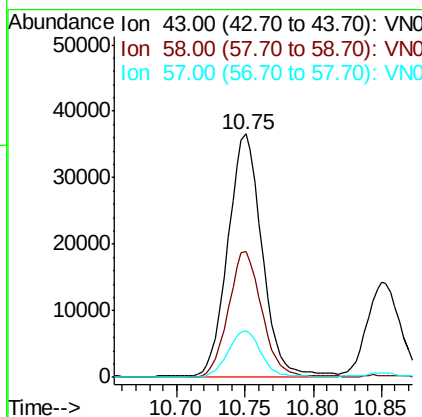
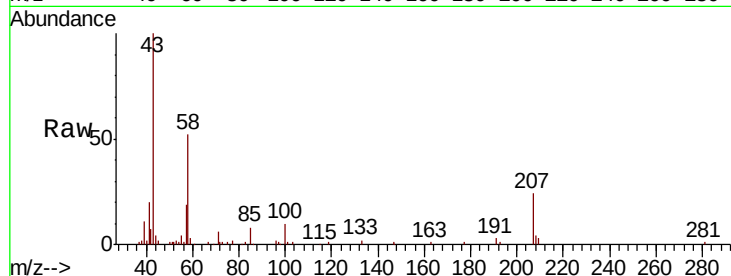
#59
2-Hexanone
Concen: 12.857 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion:	43	Resp:	63724
Ion Ratio	Lower	Upper	
43	100		
58	50.4	41.4	62.0
57	18.3	14.7	22.1

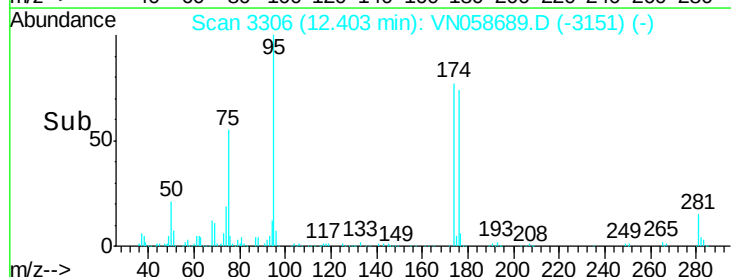
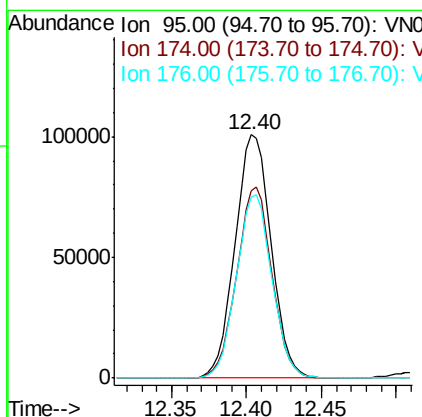
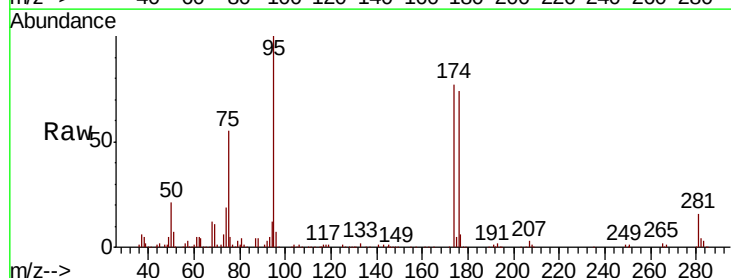
Manual Integrations
APPROVED

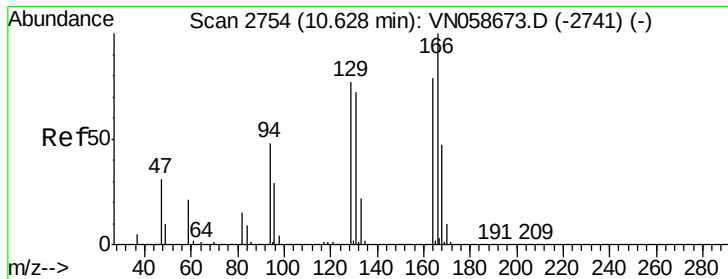
MMDadoda
10/14/2019 4:59:21 PM



#60
4-Bromofluorobenzene
Concen: 27.942 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tgt Ion:	95	Resp:	169394
Ion Ratio	Lower	Upper	
95	100		
174	76.9	59.9	89.9
176	74.2	58.3	87.5





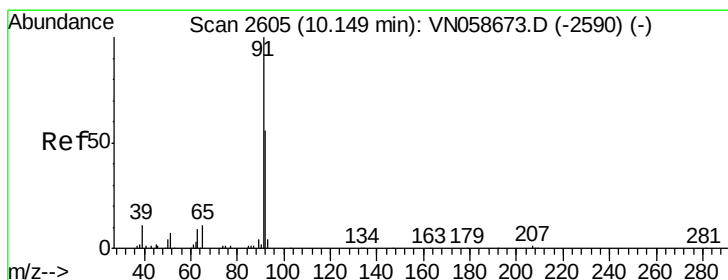
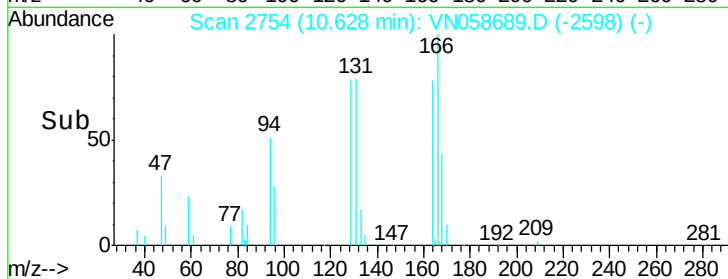
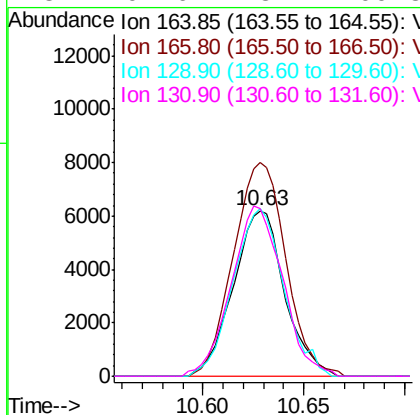
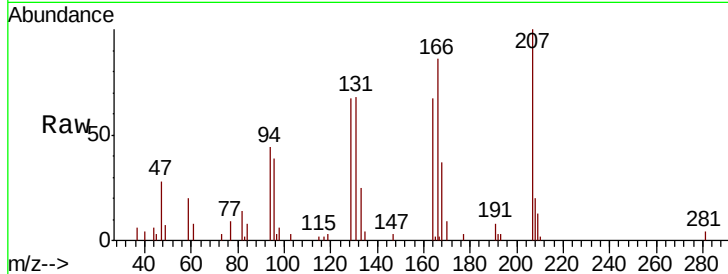
#61
Tetrachloroethene
Concen: 2.950 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
164	100		
166	128.9	101.4	152.2
129	101.0	78.1	117.1
131	101.6	73.2	109.8

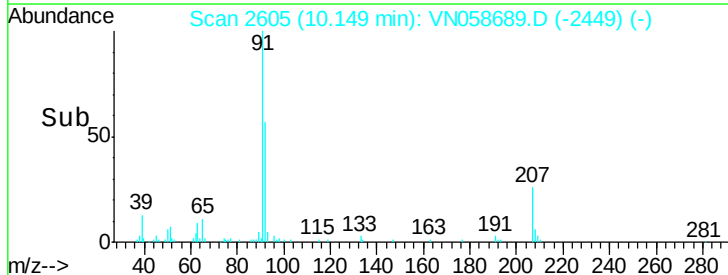
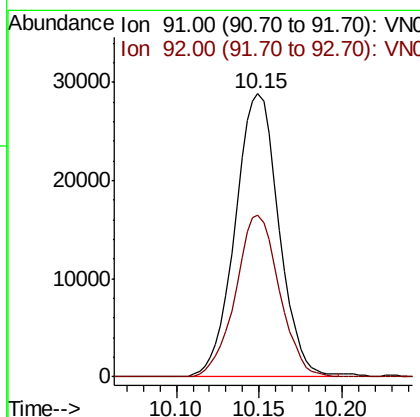
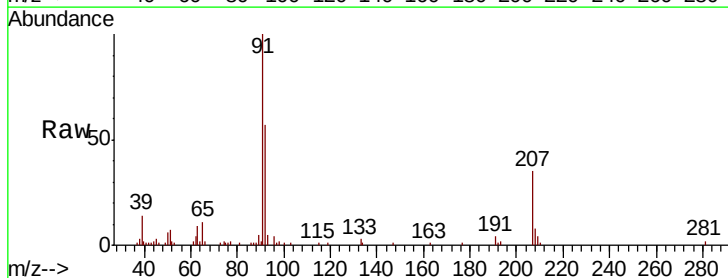
Manual Integrations
APPROVED

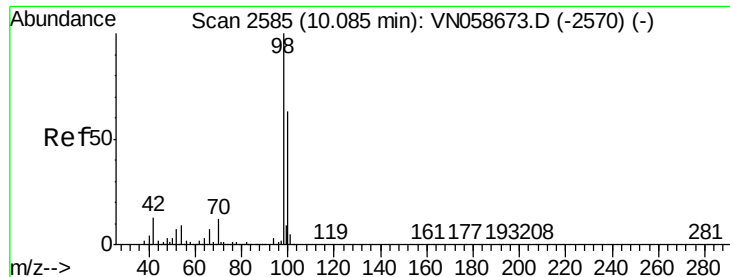
MMDadoda
10/14/2019 4:59:21 PM



#62
Toluene
Concen: 2.834 ug/l
RT: 10.15 min Scan# 2605
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.2	45.4	68.2





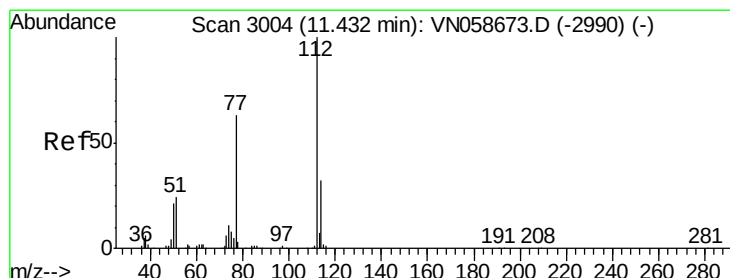
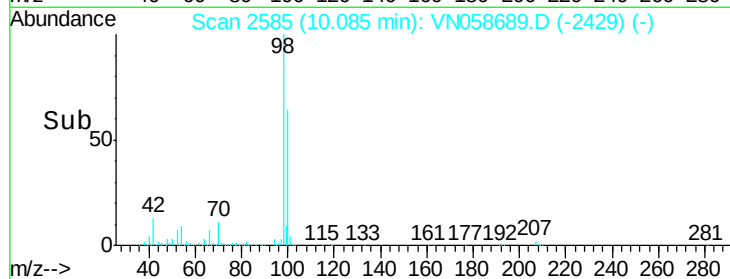
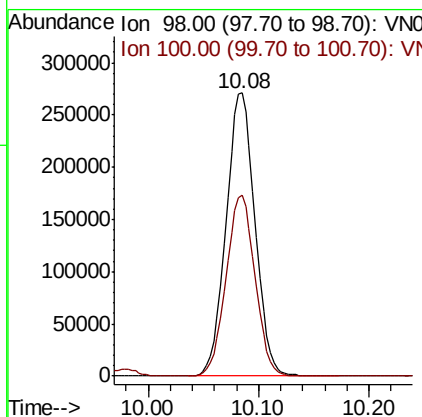
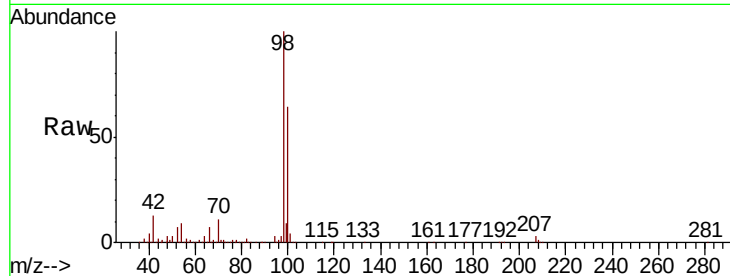
#63
Toluene-d8
Concen: 30.122 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion: 98 Resp: 492900
Ion Ratio Lower Upper
98 100
100 63.9 50.6 75.8

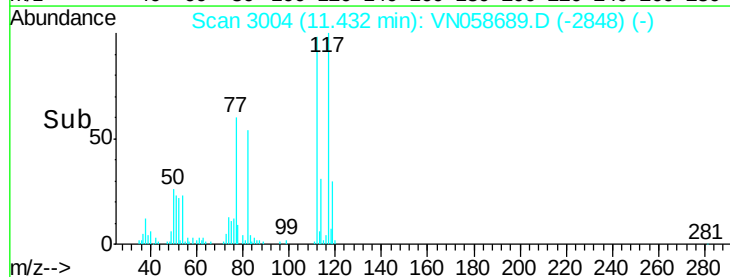
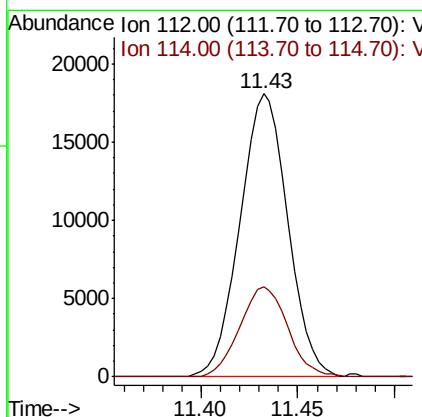
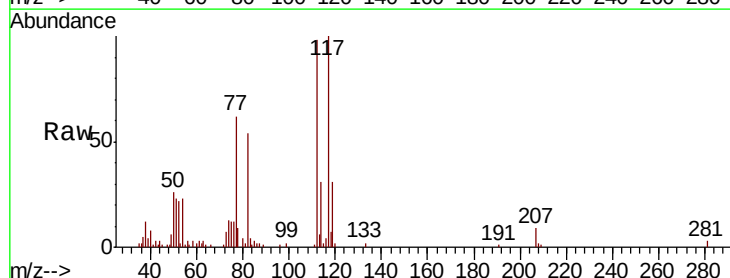
Manual Integrations
APPROVED

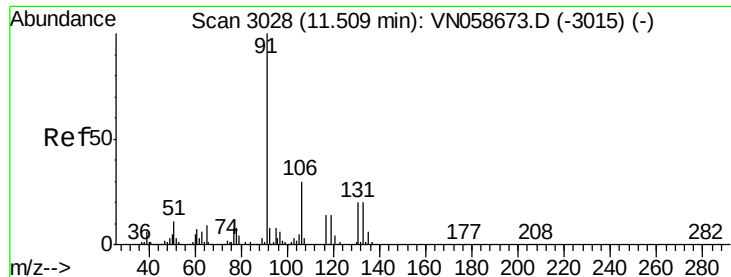
MMDadoda
10/14/2019 4:59:21 PM



#64
Chlorobenzene
Concen: 2.733 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tgt Ion: 112 Resp: 31147
Ion Ratio Lower Upper
112 100
114 31.9 25.7 38.5





#65

1,1,1,2-Tetrachloroethane

Concen: 2.944 ug/l

RT: 11.51 min Scan# 3028

Delta R.T. 0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Instrument :

MSVOA_N

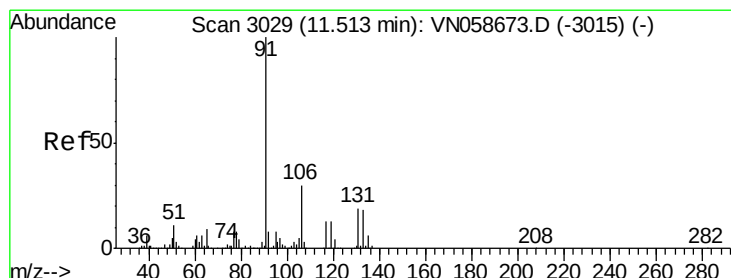
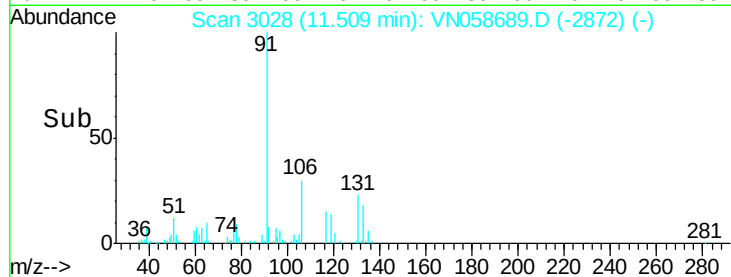
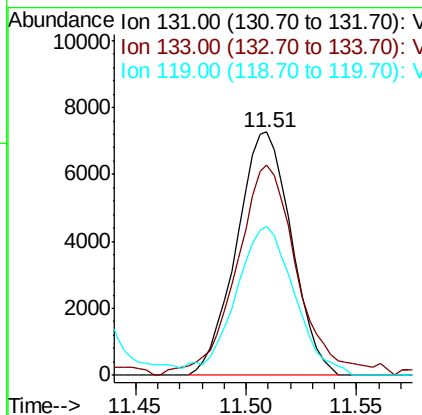
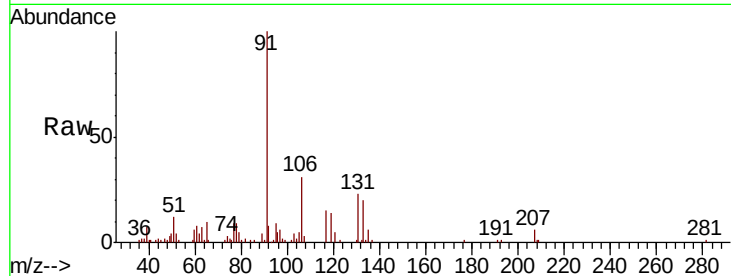
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
131	100	12580		
133	94.8	0.0	194.0	
119	64.3	0.0	136.8	

Manual Integrations
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#66

Ethyl Benzene

Concen: 2.658 ug/l

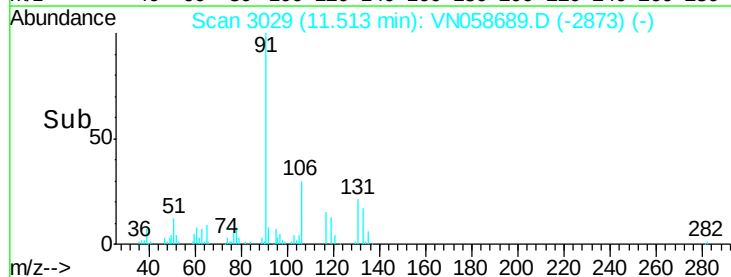
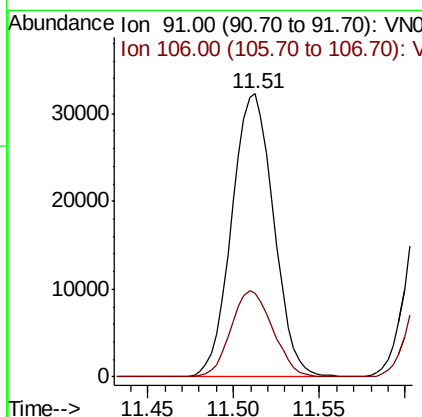
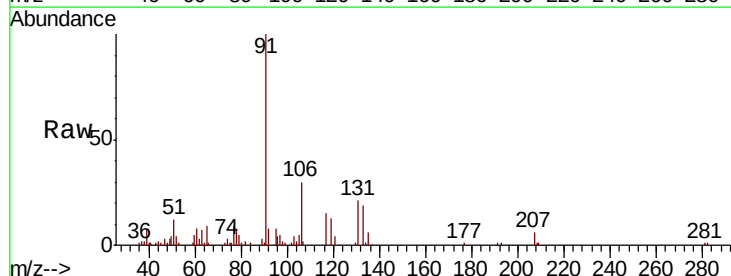
RT: 11.51 min Scan# 3029

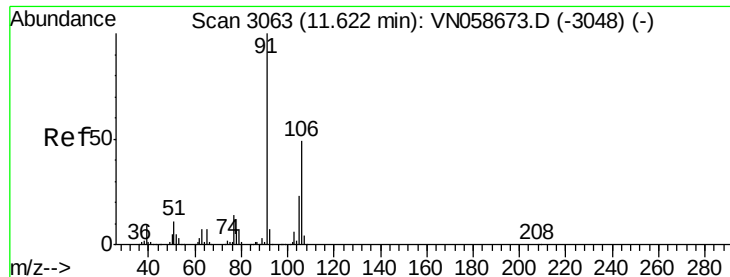
Delta R.T. 0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	54873		
106	29.8	24.2	36.4	





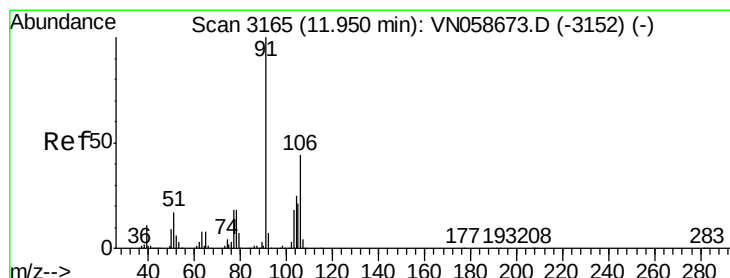
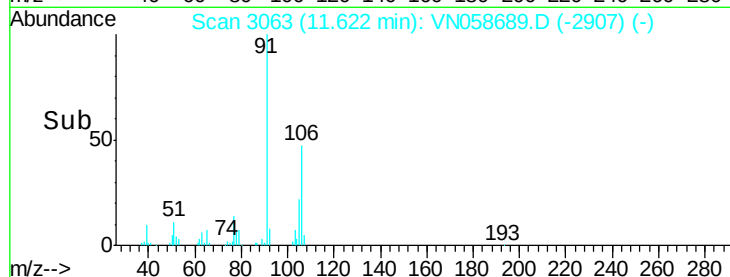
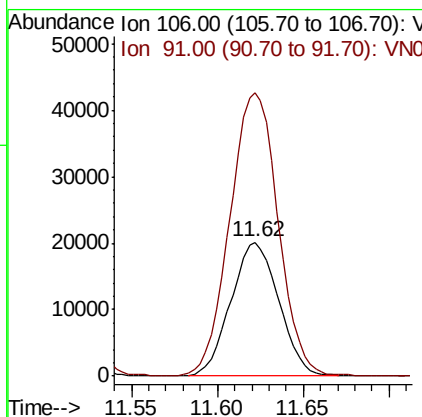
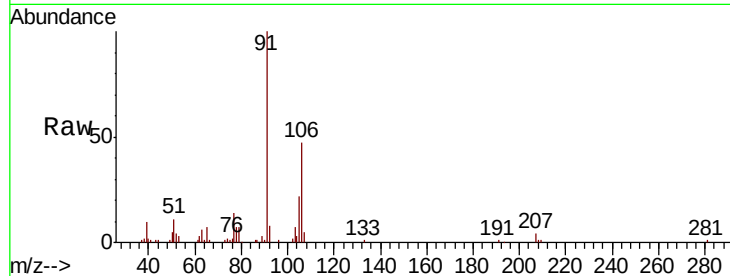
#67
m/p-Xylenes
Concen: 5.063 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion:106 Resp: 39043
Ion Ratio Lower Upper
106 100
91 212.8 165.6 248.4

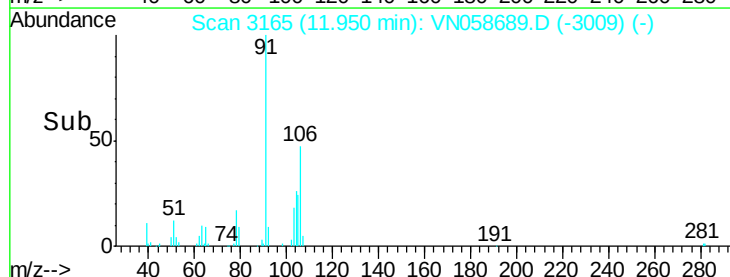
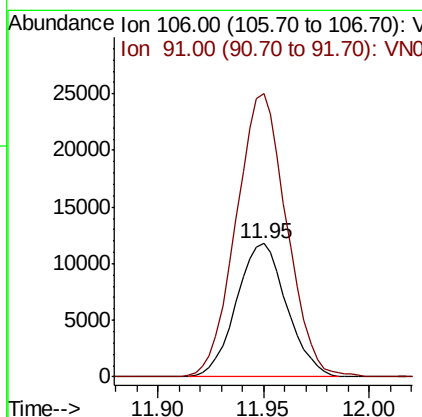
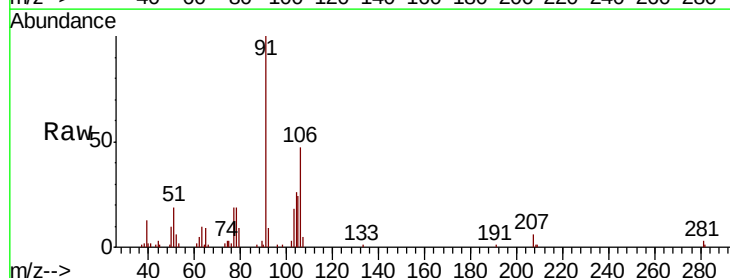
Manual Integrations
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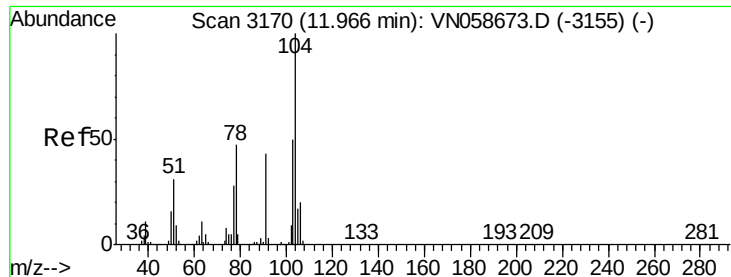
MMDadoda
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#68
o-Xylene
Concen: 2.612 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tgt Ion:106 Resp: 19531
Ion Ratio Lower Upper
106 100
91 213.5 109.8 329.4





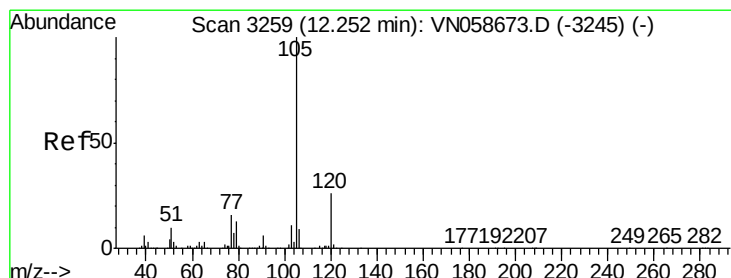
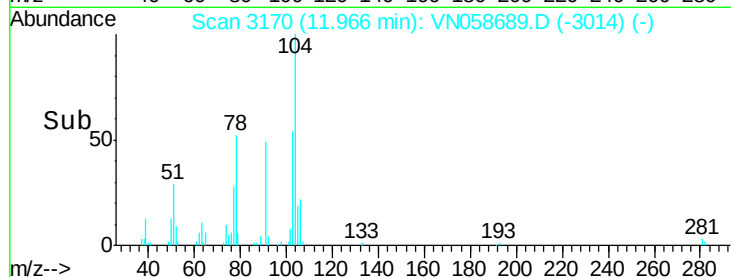
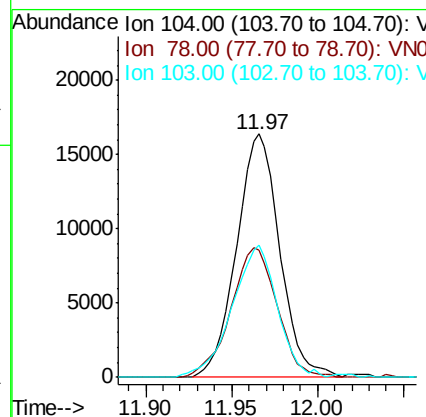
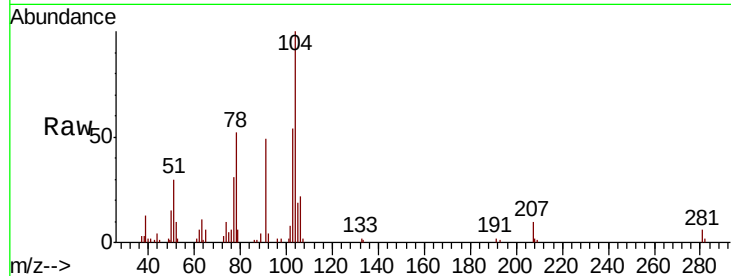
#69
Stvrene
Concen: 2.308 ug/l
RT: 11.97 min Scan# 3170
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
104	100		
78	57.2	42.4	63.6
103	56.4	44.6	66.8

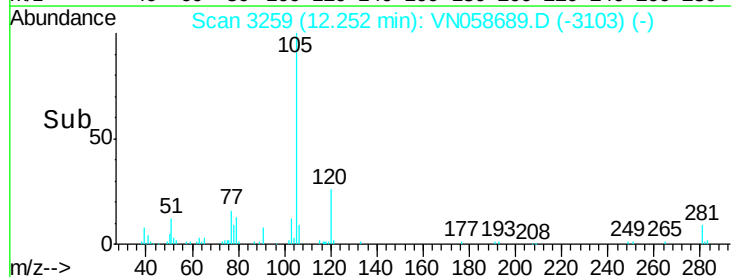
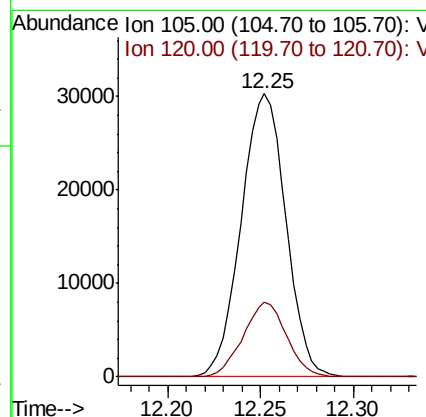
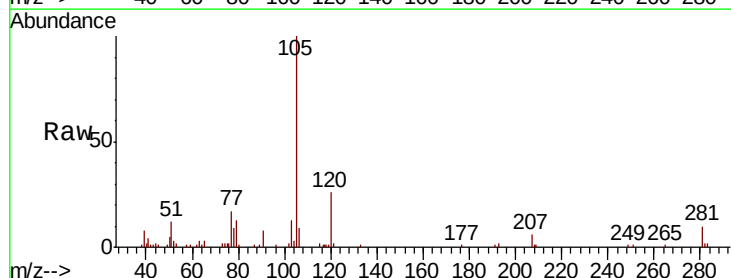
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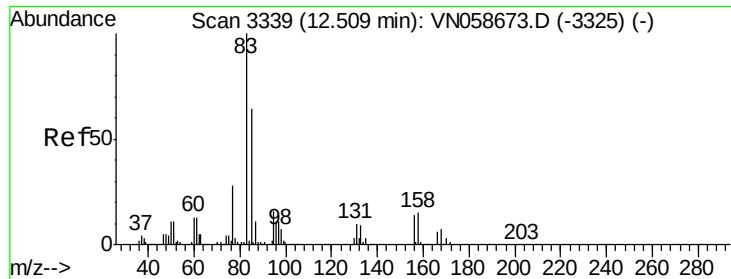
MMDadoda
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#70
Isopropylbenzene
Concen: 2.521 ug/l
RT: 12.25 min Scan# 3259
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Lower	Upper
105	100		
120	25.5	18.4	34.2





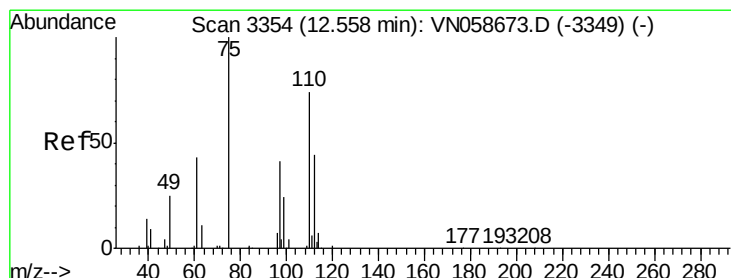
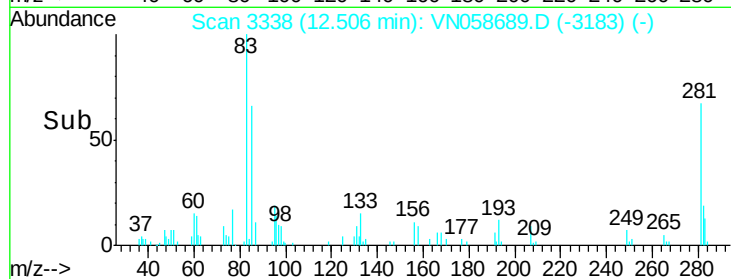
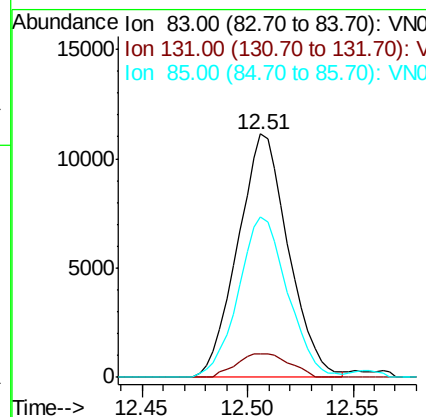
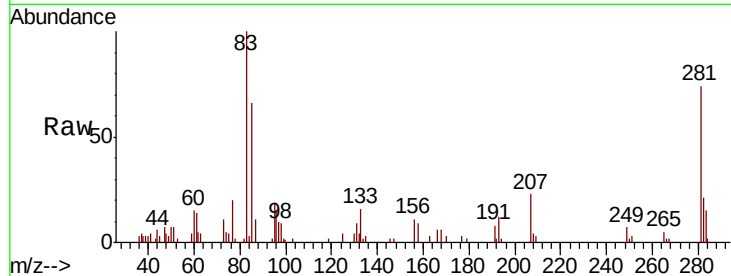
#71
 1,1,2,2-Tetrachloroethane
 Concen: 2.729 ug/l
 RT: 12.51 min Scan# 3338
 Delta R.T. -0.00 min
 Lab File: VN058689.D
 Acq: 11 Oct 2019 9:41

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
83	100		
131	10.1	4.9	14.7
85	64.2	31.6	94.7

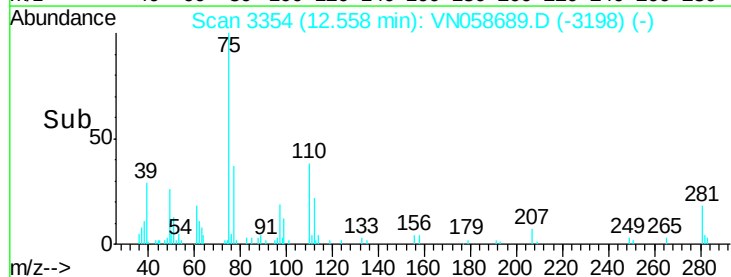
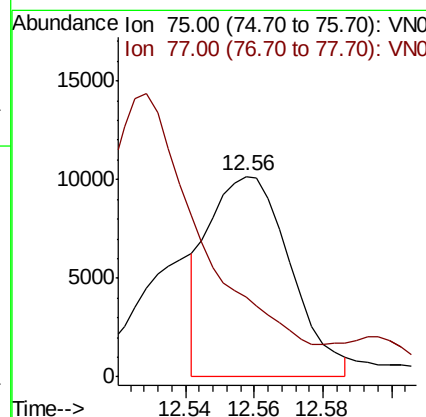
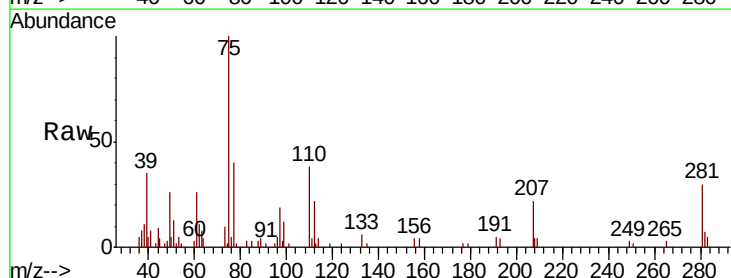
Manual Integrations
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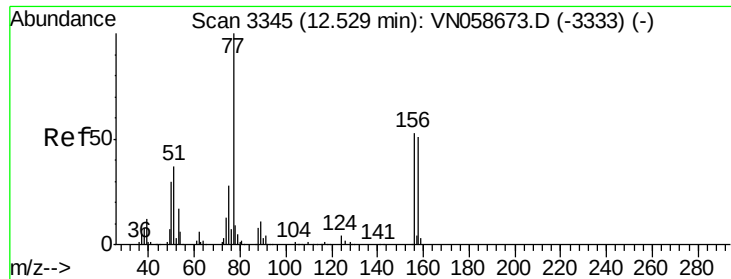
MMDadoda
 10/14/2019 4:59:21 PM



#72
 1,2,3-Trichloropropane
 Concen: 2.733 ug/l m
 RT: 12.56 min Scan# 3354
 Delta R.T. 0.00 min
 Lab File: VN058689.D
 Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Lower	Upper
75	100		
77	177.1	0.0	359.4





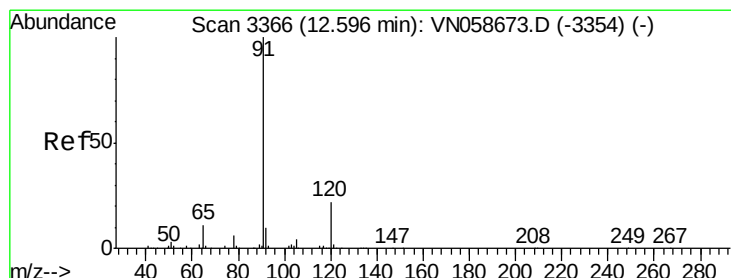
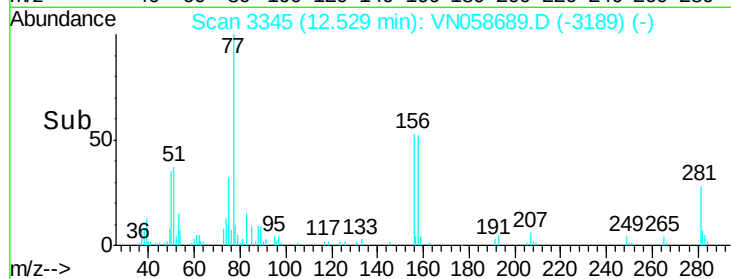
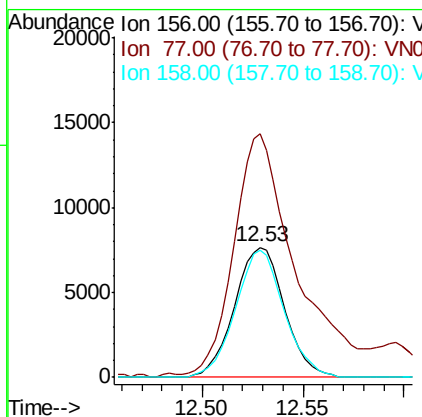
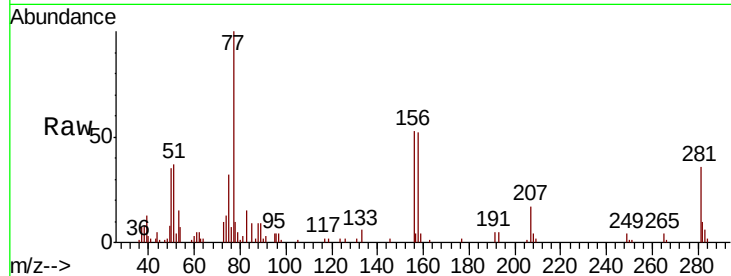
#73
Bromobenzene
Concen: 2.712 ug/l
RT: 12.53 min Scan# 3345
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
156	100		
77	224.1	0.0	456.0
158	95.3	0.0	195.4

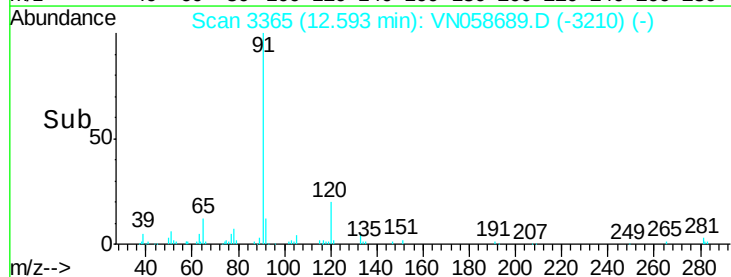
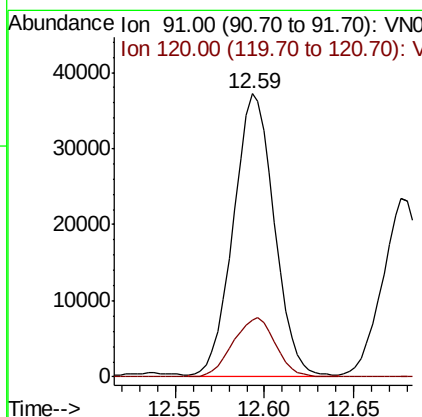
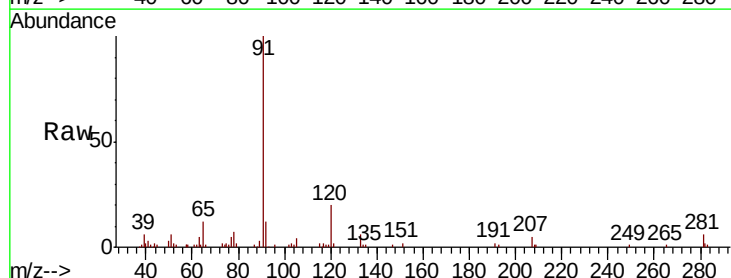
Manual Integrations
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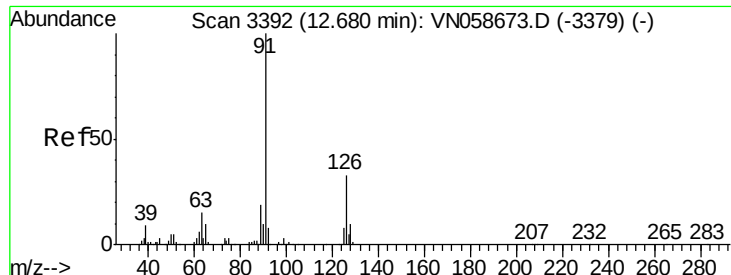
MMDadoda
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#74
n-propylbenzene
Concen: 2.525 ug/l
RT: 12.59 min Scan# 3365
Delta R.T. -0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Lower	Upper
91	100		
120	21.5	0.0	43.6





#75

2-Chlorotoluene

Concen: 2.696 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. -0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion: 91 Resp: 38326

Ion Ratio Lower Upper

91 100

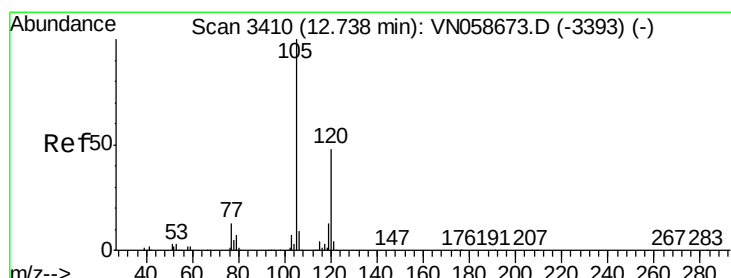
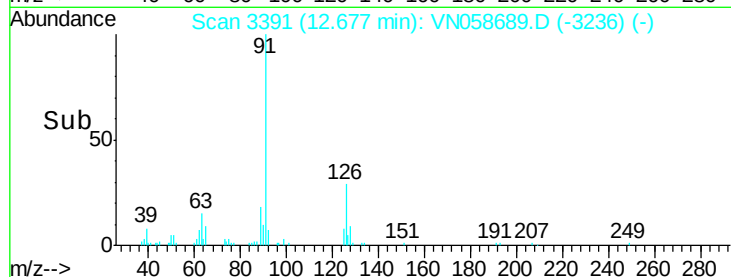
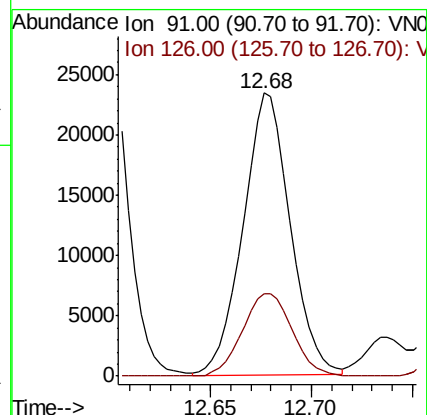
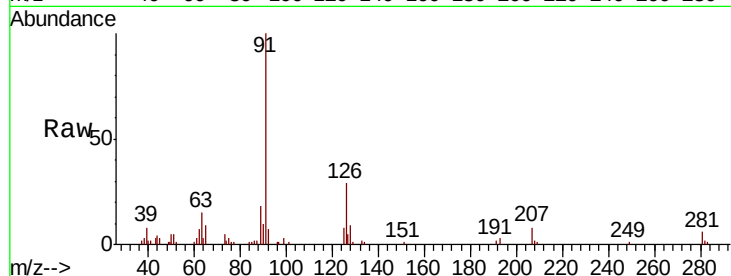
126 30.9 0.0 65.4

Manual Integrations

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#76

1,3,5-Trimethylbenzene

Concen: 2.465 ug/l

RT: 12.74 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN058689.D

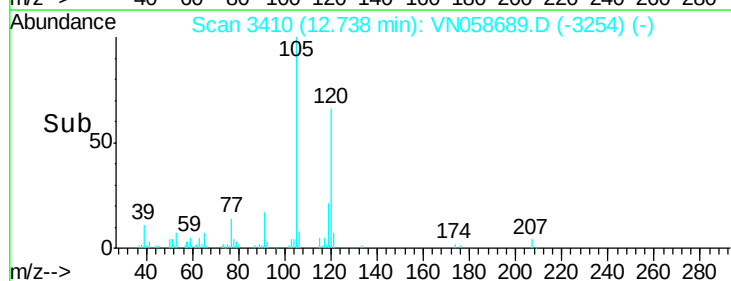
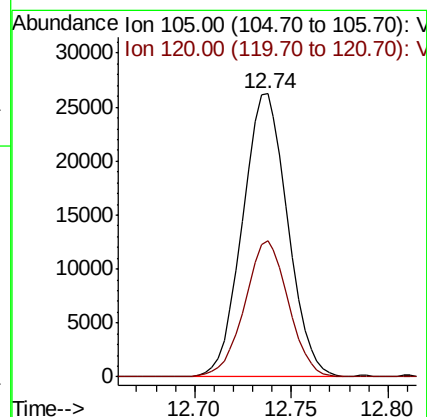
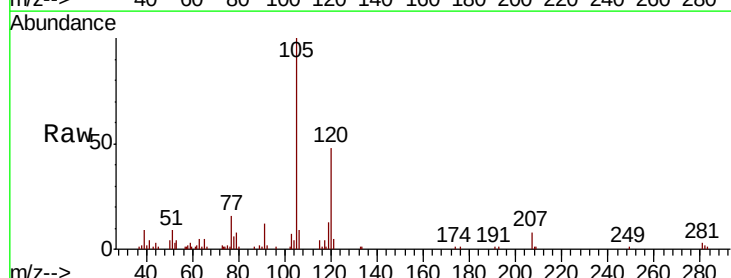
Acq: 11 Oct 2019 9:41

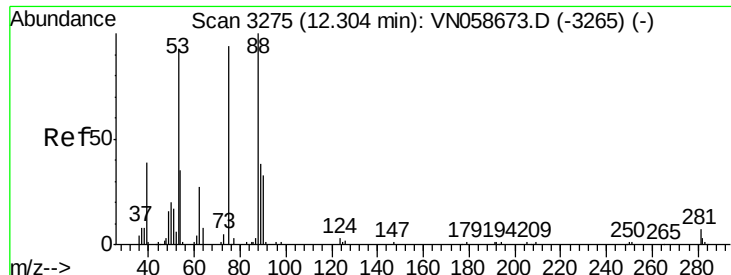
Tgt Ion: 105 Resp: 42608

Ion Ratio Lower Upper

105 100

120 46.4 0.0 94.0





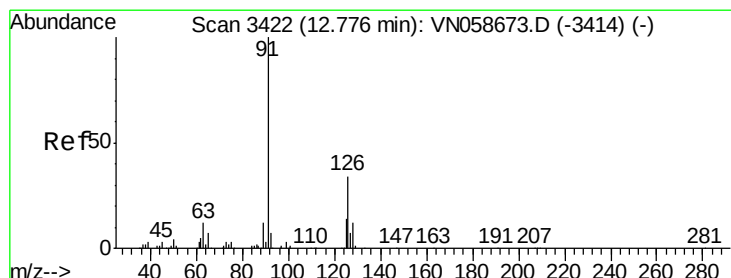
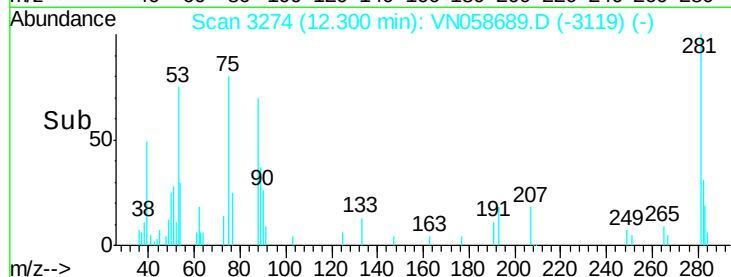
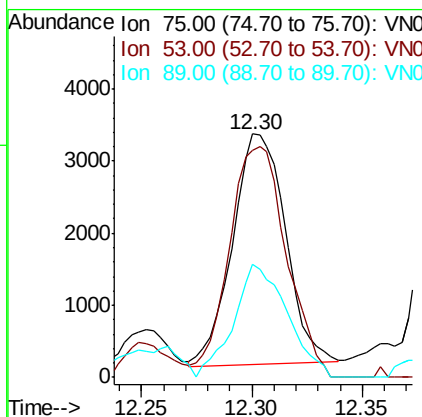
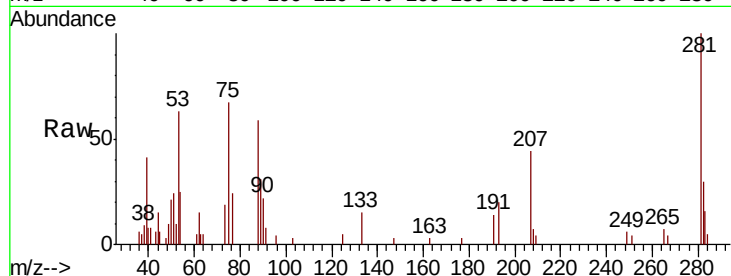
#77
t-1,4-Dichloro-2-butene
Concen: 2.284 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
75	100		
53	99.8	50.0	150.0
89	49.3	20.7	62.1

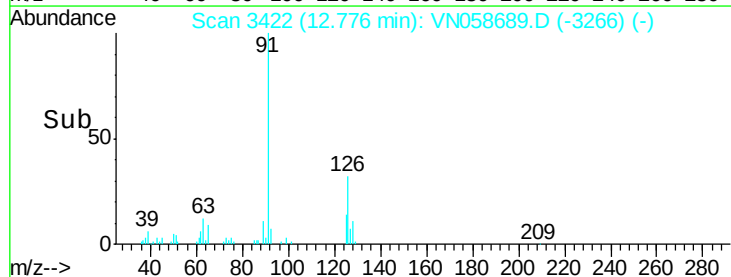
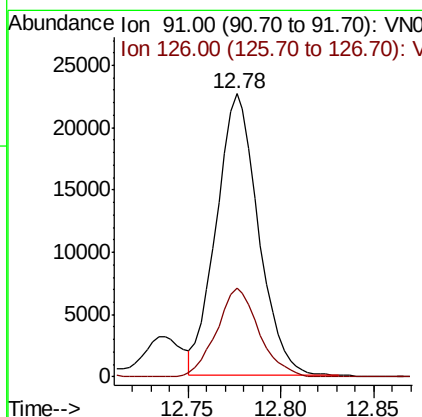
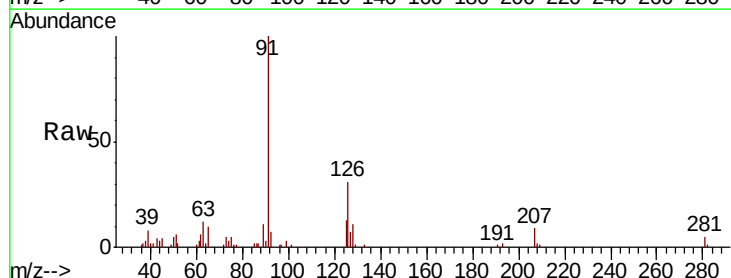
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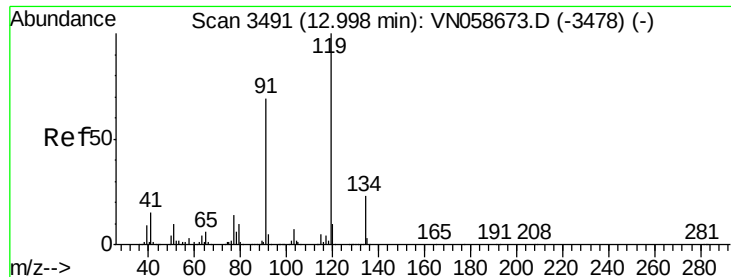
MMDadoda
10/14/2019 4:59:21 PM



#78
4-Chlorotoluene
Concen: 2.412 ug/l
RT: 12.78 min Scan# 3422
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Lower	Upper
91	100		
126	31.8	0.0	63.4





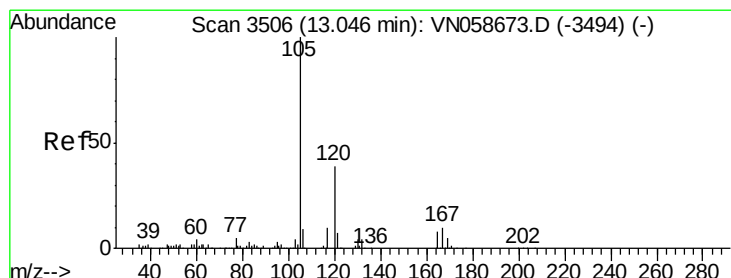
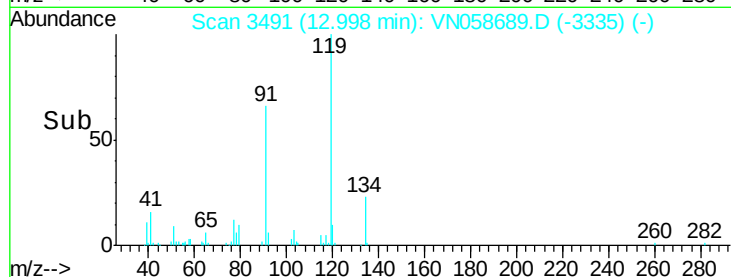
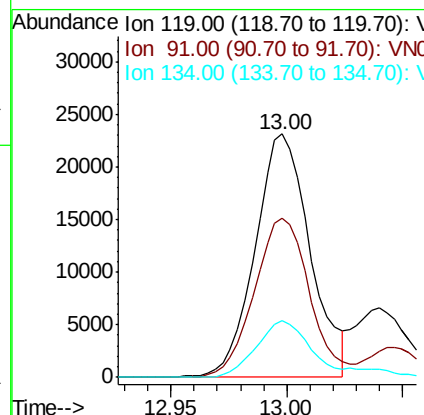
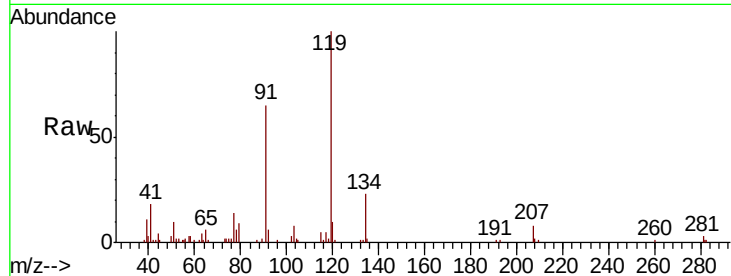
#79
tert-butylbenzene
Concen: 2.589 ug/l
RT: 13.00 min Scan# 3491
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
119	100	38235		
91	65.2		0.0	136.4
134	22.5		0.0	47.2

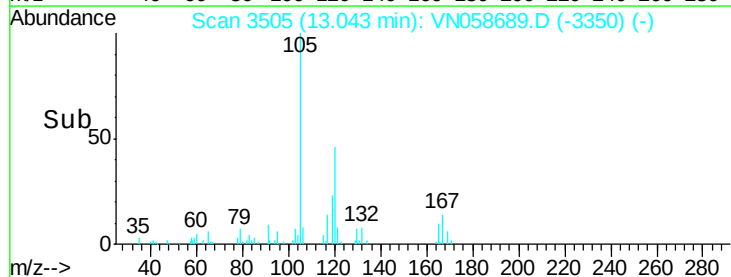
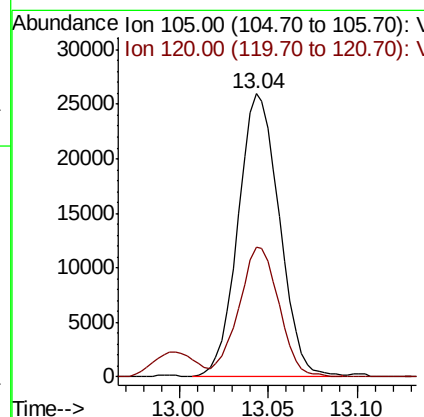
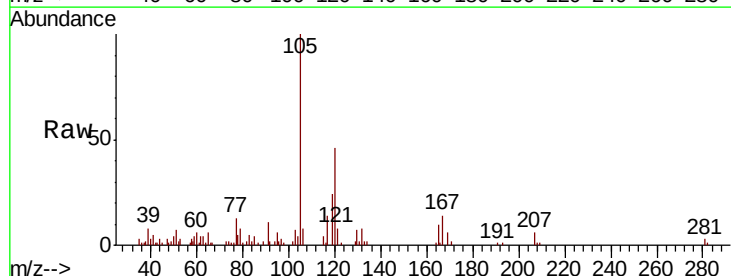
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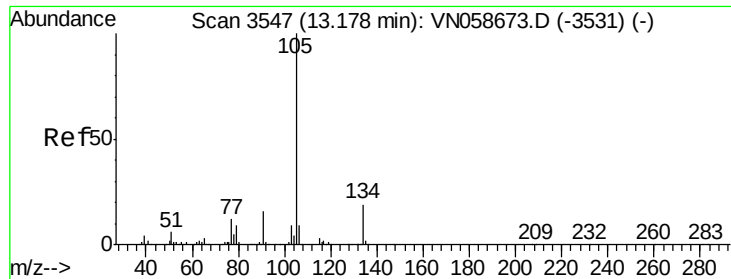
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#80
1,2,4-Trimethylbenzene
Concen: 2.434 ug/l
RT: 13.04 min Scan# 3505
Delta R.T. -0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	41812		
120	44.7		0.0	89.2





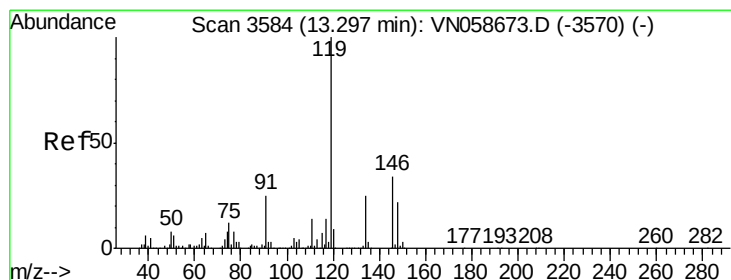
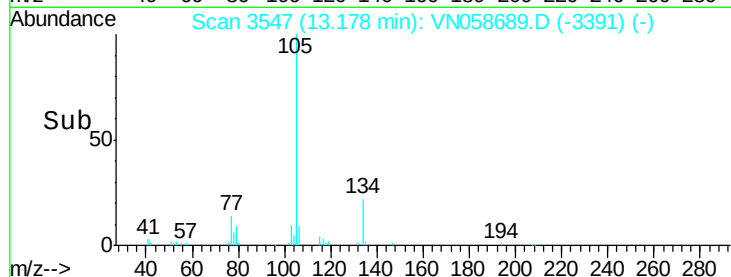
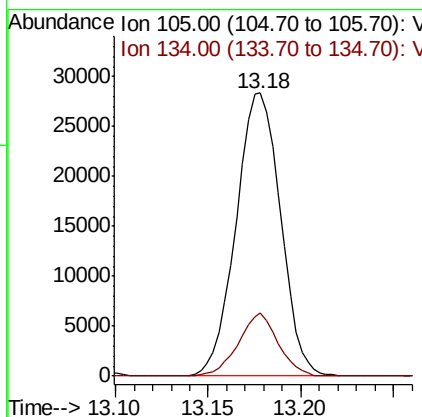
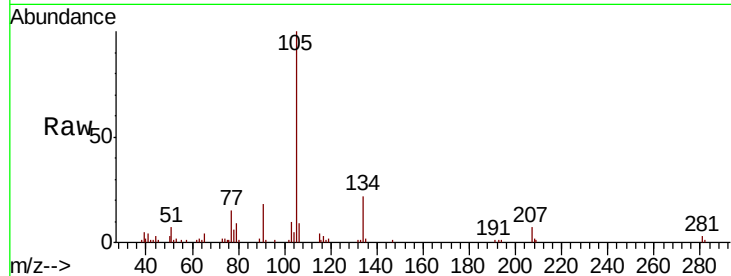
#81
 sec-Butylbenzene
 Concen: 2.379 ug/l
 RT: 13.18 min Scan# 3547
 Delta R.T. 0.00 min
 Lab File: VN058689.D
 Acq: 11 Oct 2019 9:41

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Resp	Lower	Upper
105	100	47286		
134	19.8	0.0	38.0	

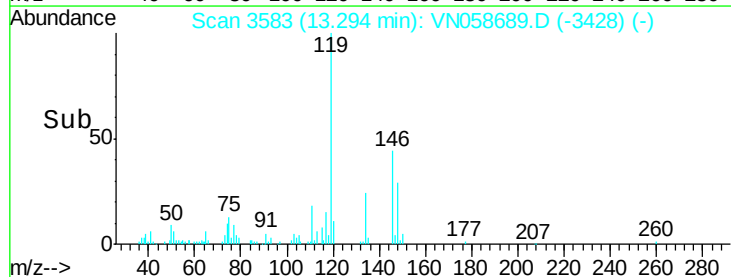
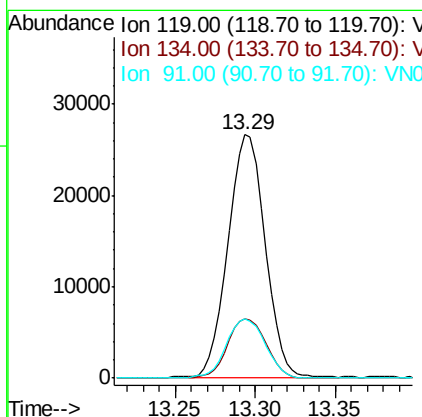
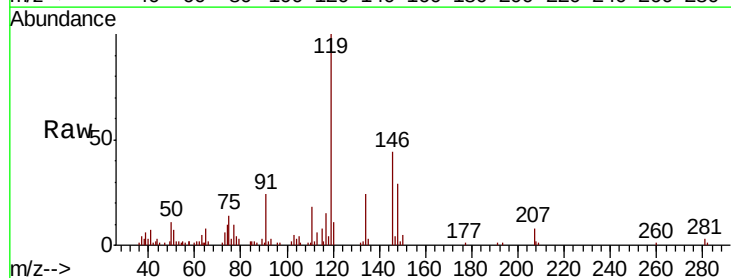
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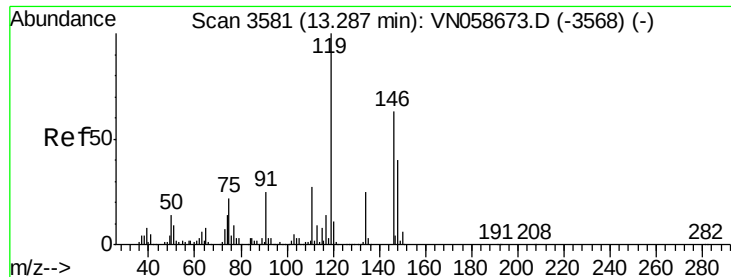
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#82
 p-Isopropyltoluene
 Concen: 2.379 ug/l
 RT: 13.29 min Scan# 3583
 Delta R.T. -0.00 min
 Lab File: VN058689.D
 Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	42468		
134	25.0	0.0	50.8	
91	25.4	0.0	49.4	





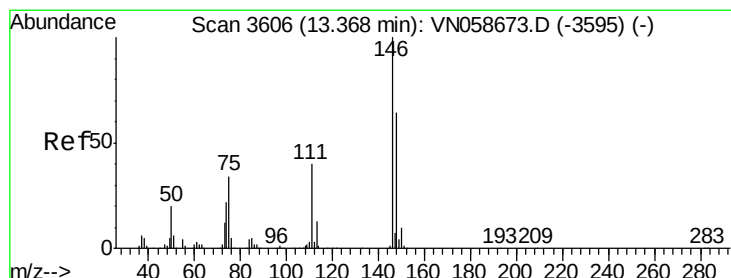
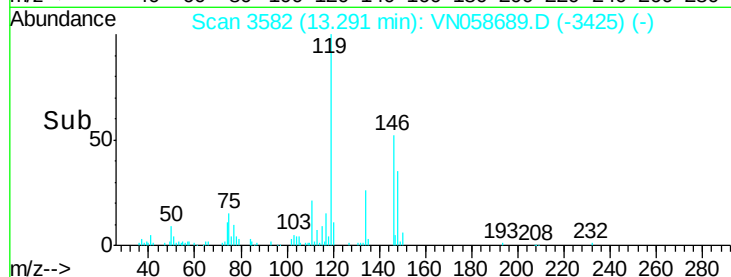
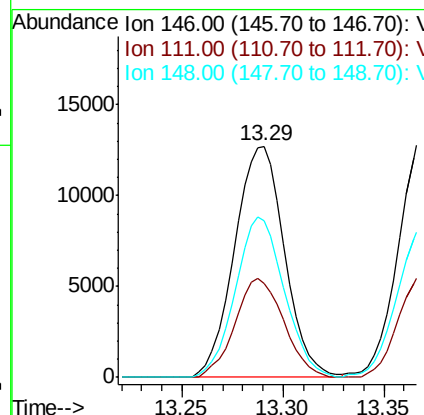
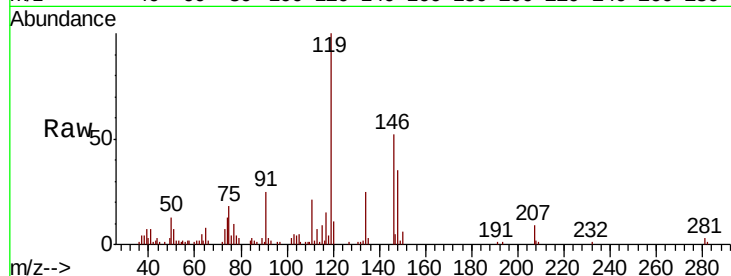
#83
 1,3-Dichlorobenzene
 Concen: 2.483 ug/l
 RT: 13.29 min Scan# 3582
 Delta R.T. 0.00 min
 Lab File: VN058689.D
 Acq: 11 Oct 2019 9:41

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	21.0	63.0
148	67.8	31.7	95.1

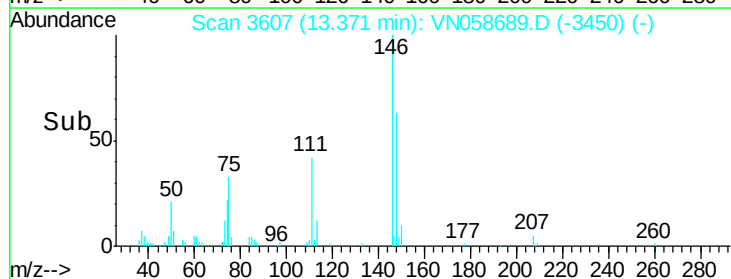
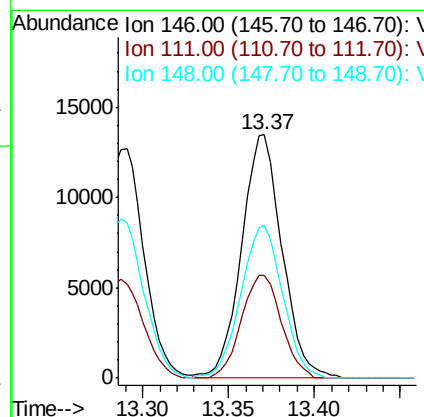
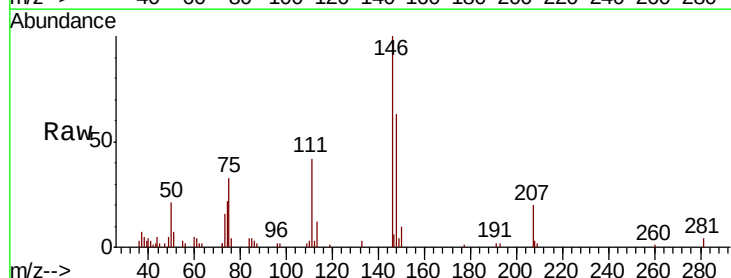
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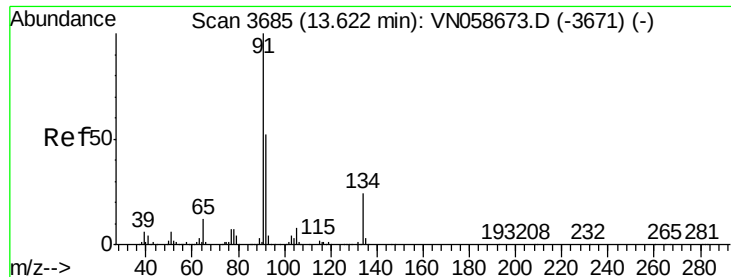
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#84
 1,4-Dichlorobenzene
 Concen: 2.491 ug/l
 RT: 13.37 min Scan# 3607
 Delta R.T. 0.00 min
 Lab File: VN058689.D
 Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.5	19.8	59.4
148	64.7	31.6	94.8





#85

n-Butylbenzene

Concen: 2.213 ug/l

RT: 13.62 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Instrument :

MSVOA_N

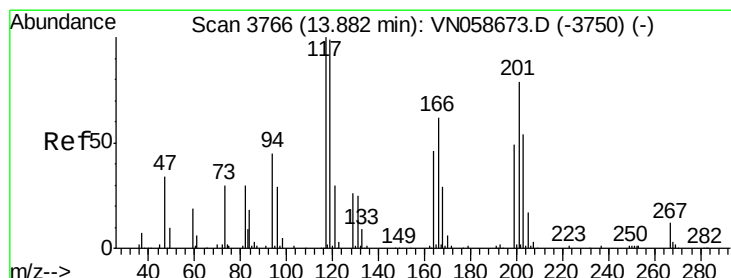
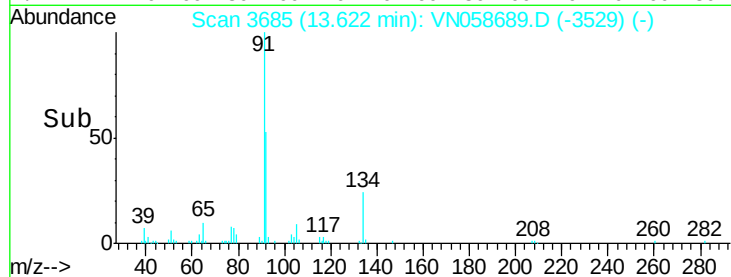
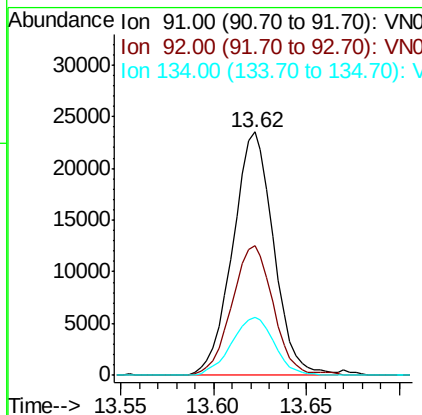
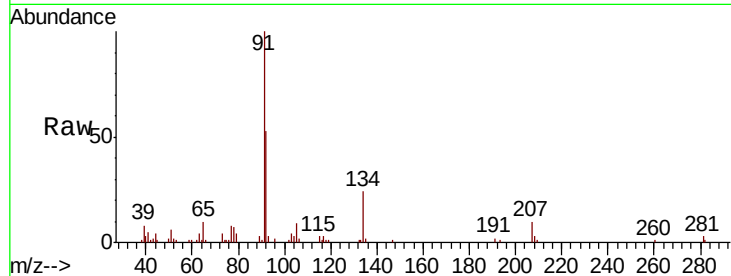
ClientSampleId :

MDL-MDL-WATER-03-QT4-2019

Tot Ion:	91	Resp:	36157
Ion Ratio	Lower	Upper	
91	100		
92	53.5	0.0	102.8
134	24.8	0.0	48.6

Manual Integrations
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#86

Hexachloroethane

Concen: 2.552 ug/l

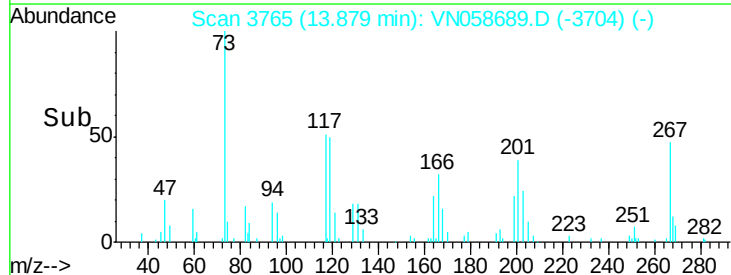
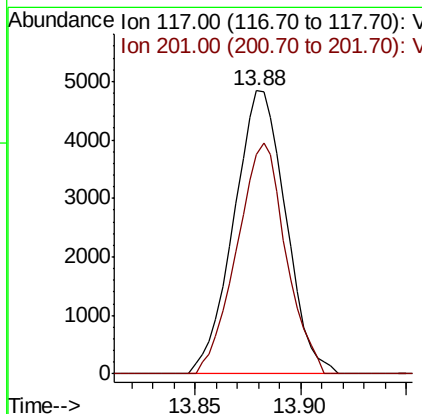
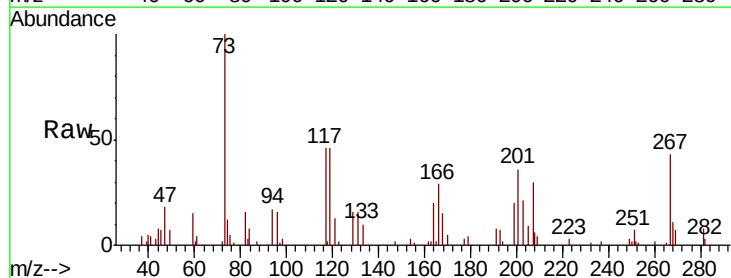
RT: 13.88 min Scan# 3765

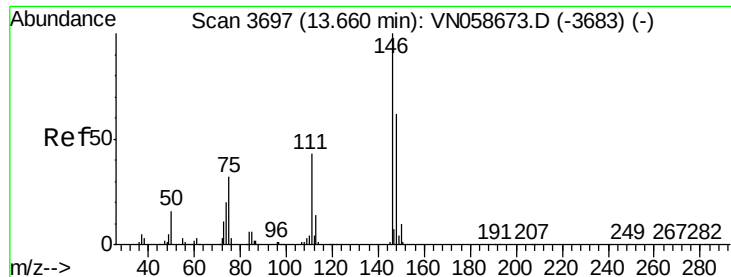
Delta R.T. -0.00 min

Lab File: VN058689.D

Acq: 11 Oct 2019 9:41

Tgt Ion:	117	Resp:	8291
Ion Ratio	Lower	Upper	
117	100		
201	77.0	38.7	116.1





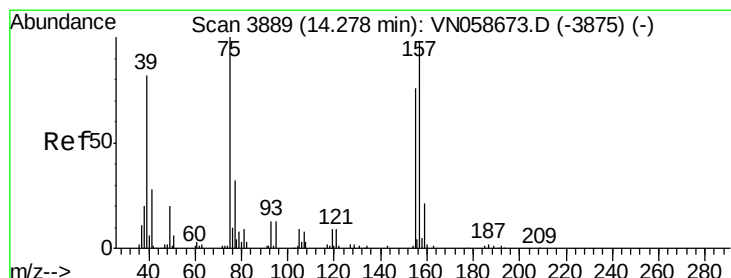
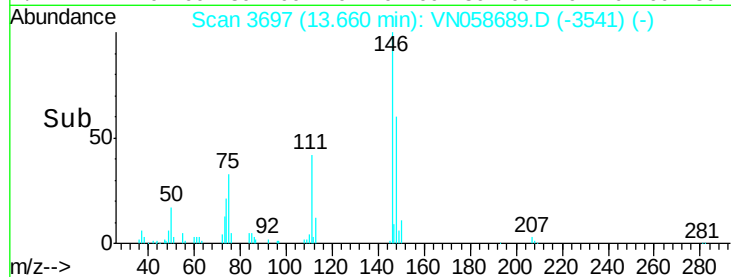
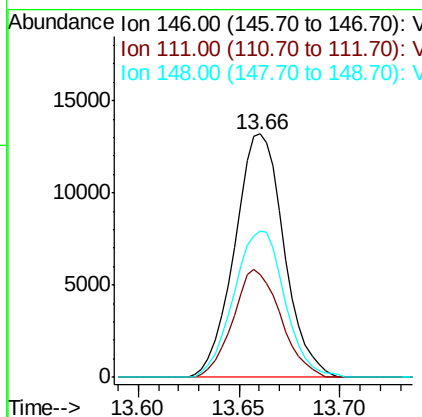
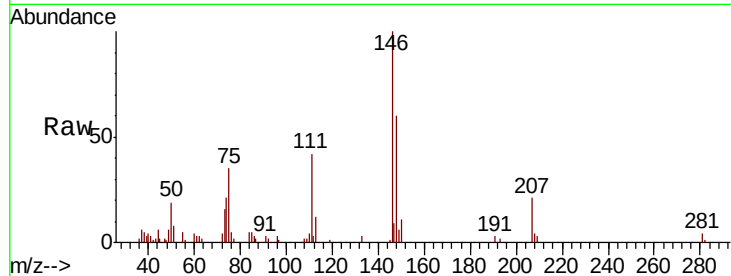
#87
 1,2-Dichlorobenzene
 Concen: 2.580 ug/l
 RT: 13.66 min Scan# 3697
 Delta R.T. 0.00 min
 Lab File: VN058689.D
 Acq: 11 Oct 2019 9:41

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.0	21.8	65.4
148	62.0	32.1	96.5

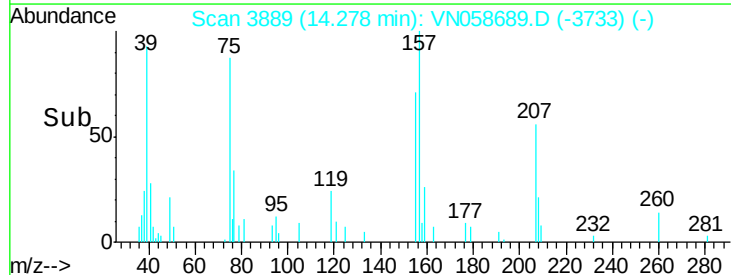
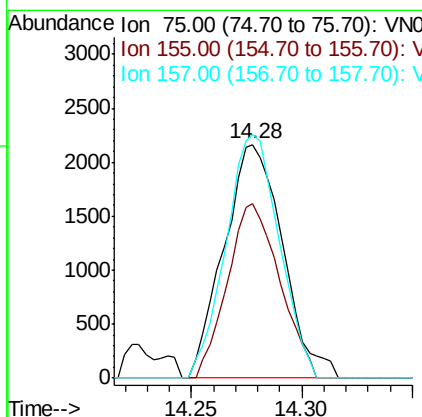
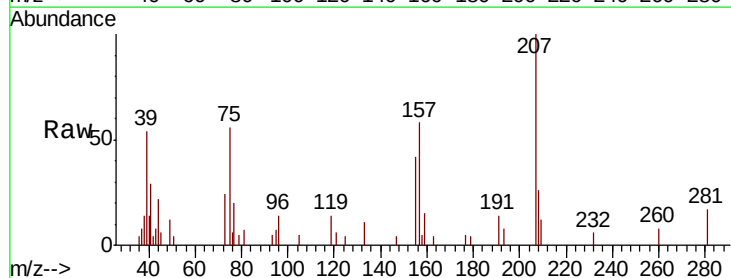
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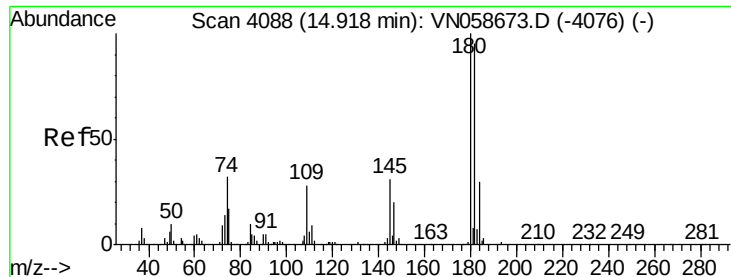
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#88
 1,2-Dibromo-3-Chloropropane
 Concen: 2.648 ug/l
 RT: 14.28 min Scan# 3889
 Delta R.T. 0.00 min
 Lab File: VN058689.D
 Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Lower	Upper
75	100		
155	66.2	58.3	87.5
157	94.5	75.0	112.6





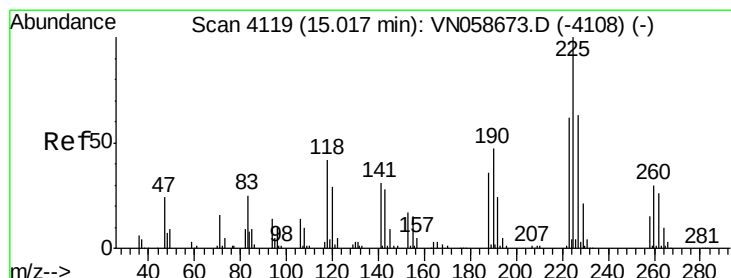
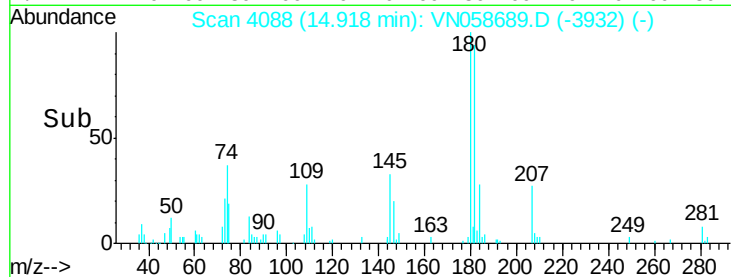
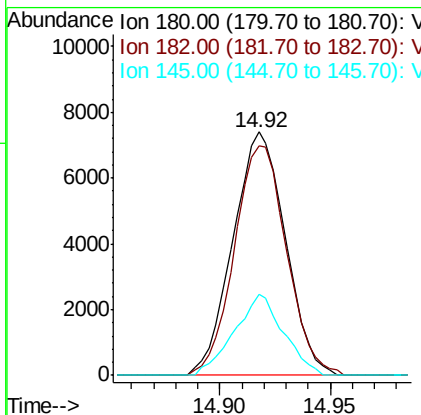
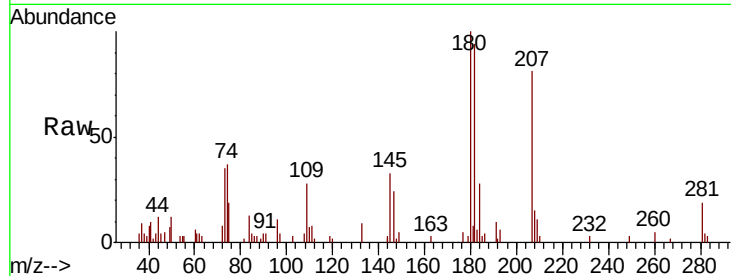
#89
 1,2,4-Trichlorobenzene
 Concen: 2.208 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.00 min
 Lab File: VN058689.D
 Acq: 11 Oct 2019 9:41

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.8	75.3	112.9
145	31.0	24.8	37.2

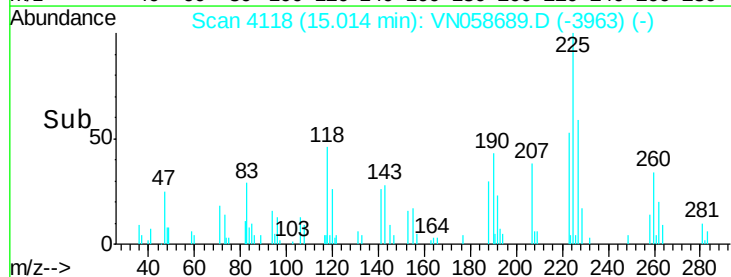
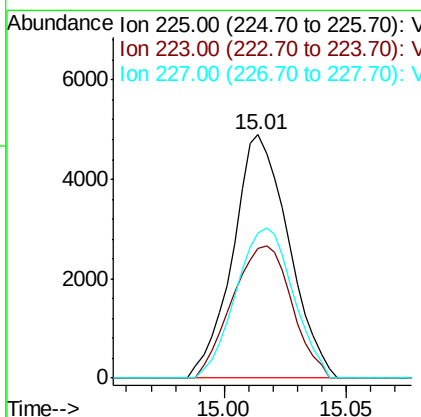
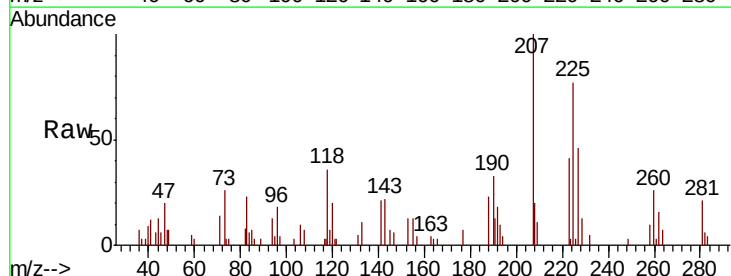
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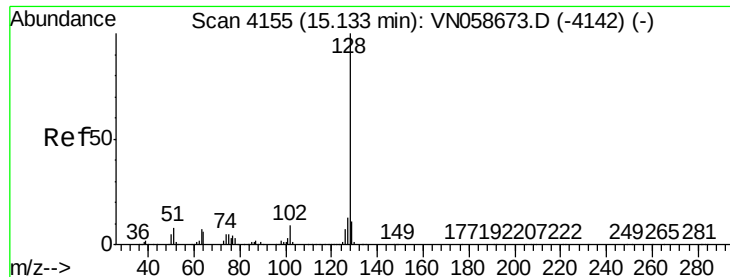
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#90
 Hexachlorobutadiene
 Concen: 2.712 ug/l
 RT: 15.01 min Scan# 4118
 Delta R.T. -0.00 min
 Lab File: VN058689.D
 Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Lower	Upper
225	100		
223	58.2	0.0	126.2
227	63.2	0.0	127.0





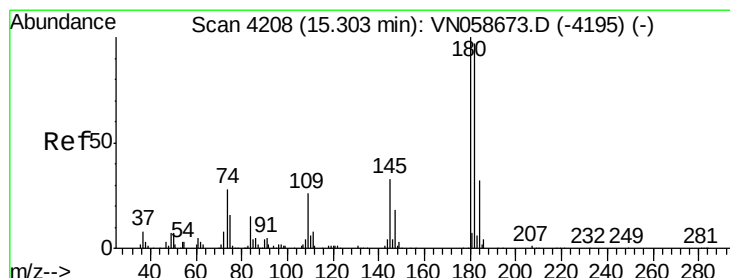
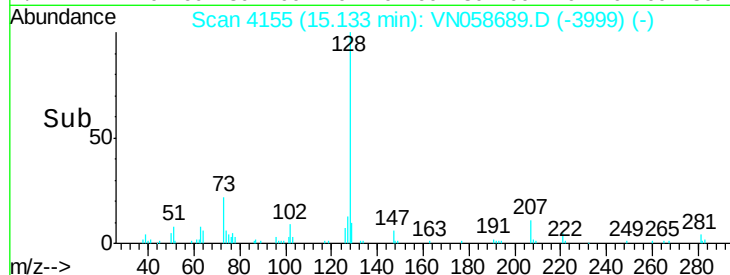
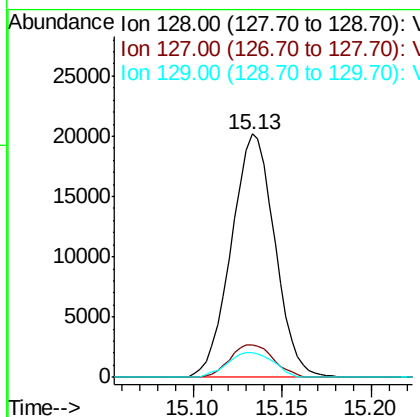
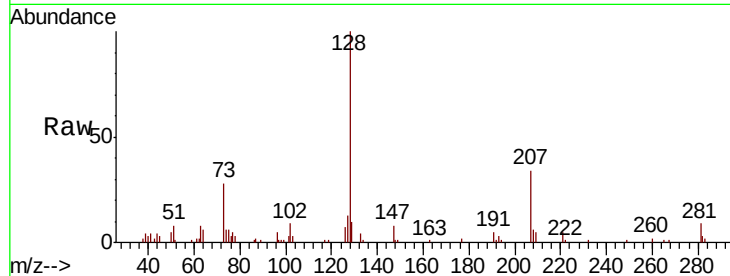
#91
Naphthalene
Concen: 2.096 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT4-2019

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.2	15.2
129	10.9	8.6	13.0

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#92
1,2,3-Trichlorobenzene
Concen: 2.181 ug/l
RT: 15.30 min Scan# 4207
Delta R.T. -0.00 min
Lab File: VN058689.D
Acq: 11 Oct 2019 9:41

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.4	0.0	193.4
145	33.1	0.0	65.8

