

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072419\
 Data File : VN056893.D
 Acq On : 23 Jul 2019 23:06
 Operator : JC/SP
 Sample : K3591-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Quant Time: Jul 24 03:49:21 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072419W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 24 03:39:51 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	55472	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	300230	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	236332	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	111343	30.67	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.23%
60) 4-Bromofluorobenzene	12.40	95	91097	25.72	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	85.73%
63) Toluene-d8	10.09	98	360907	32.33	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	107.77%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.85	85	7868	2.372 ug/l	98
3) Chloromethane	2.06	50	11007	2.720 ug/l	96
4) Vinyl Chloride	2.18	62	10145	2.600 ug/l	94
5) Bromomethane	2.56	94	8766	3.659 ug/l	95
6) Chloroethane	2.70	64	5655	2.613 ug/l #	86
7) Trichlorofluoromethane	3.01	101	12754	2.684 ug/l	92
8) Diethyl Ether	3.40	74	4963	2.803 ug/l	51
9) 1,1,2-Trichlorotrifluoroet	3.74	101	8161	2.735 ug/l	96
10) 1,1-Dichloroethene	3.73	96	8499	2.870 ug/l	94
11) Methyl Iodide	3.95	142	9330	2.130 ug/l	98
12) Methyl Acetate	4.33	43	13147	3.627 ug/l	94
13) Acrolein	3.60	56	2639	6.434 ug/l #	9
14) Acrylonitrile	4.99	53	8496	6.078 ug/l #	22
15) Acetone	3.83	58	4843	13.402 ug/l	99
16) Carbon Disulfide	4.04	76	9376	1.174 ug/l	98
17) Allyl chloride	4.31	41	12214	2.465 ug/l	93
18) Methylene Chloride	4.55	84	9573	2.777 ug/l	99
19) trans-1,2-Dichloroethene	5.04	96	8115	2.589 ug/l	90
20) Diisopropyl ether	5.95	45	25884	2.573 ug/l	93
21) 1,1-Dichloroethane	5.84	63	9603	1.642 ug/l	93
22) cis-1,2-Dichloroethene	6.83	96	9483	2.611 ug/l	97
23) tert-Butyl Alcohol	4.74	59	9641	20.669 ug/l #	100
24) Methyl tert-Butyl Ether	5.04	73	12018	1.342 ug/l #	69
25) Chloroform	7.37	83	16717	2.931 ug/l	86
26) Cyclohexane	7.65	56	13511	2.515 ug/l #	99
29) 1,1-Dichloropropene	7.79	75	10358	2.431 ug/l	99
30) 2-Butanone	6.85	43	21030	12.286 ug/l #	95
31) 2,2-Dichloropropane	6.82	77	5696	1.441 ug/l	91
32) 1,1,1-Trichloroethane	7.57	97	11689	2.497 ug/l	98
33) Carbon Tetrachloride	7.77	117	9894	2.421 ug/l	89
34) Benzene	8.04	78	34935	2.602 ug/l #	9
35) Methacrylonitrile	7.17	41	4052	2.370 ug/l	87
36) 1,2-Dichloroethane	8.12	62	11473	2.749 ug/l	100
37) Trichloroethene	8.84	130	9979	2.773 ug/l	93
38) Methylcyclohexane	9.08	83	13722	2.532 ug/l	98
39) 1,2-Dichloropropane	9.12	63	9825	2.742 ug/l	100
40) Dibromomethane	9.21	93	5931	2.698 ug/l	96

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	10334	2.446	ug/l	97
42) Vinyl Acetate	5.90	43	85969	11.278	ug/l #	87
43) Ethyl Acetate	6.94	43	7916	2.256	ug/l #	94
44) Isopropyl Acetate	8.17	43	15386	2.630	ug/l #	57
45) 1,4-Dioxane	9.20	88	2698	48.452	ug/l	98
46) Methyl methacrylate	9.20	41	7115	2.438	ug/l	97
47) n-amyl Acetate	12.07	43	9433	2.015	ug/l	99
48) t-1,3-Dichloropropene	10.38	75	9757	2.220	ug/l	93
49) cis-1,3-Dichloropropene	9.84	75	11372	2.220	ug/l	98
50) 1,1,2-Trichloroethane	10.56	97	8247	2.613	ug/l	95
51) Ethyl methacrylate	10.43	69	10003	2.191	ug/l	95
52) 1,3-Dichloropropane	10.71	76	13672	2.567	ug/l	99
53) Dibromochloromethane	10.90	129	7449	2.271	ug/l	96
54) 1,2-Dibromoethane	11.00	107	7798	2.422	ug/l	99
55) 2-Chloroethyl vinyl ether	9.69	63	19983	10.107	ug/l	98
56) Bromoform	12.12	173	4297	1.893	ug/l #	96
58) 4-Methyl-2-Pentanone	9.99	43	44980	14.183	ug/l	97
59) 2-Hexanone	10.75	43	27862	12.892	ug/l	94
61) Tetrachloroethene	10.63	164	10070	3.040	ug/l	97
62) Toluene	10.16	91	37298	2.902	ug/l	98
64) Chlorobenzene	11.43	112	21295	2.750	ug/l	91
65) 1,1,1,2-Tetrachloroethane	11.51	131	8095	2.760	ug/l	97
66) Ethyl Benzene	11.51	91	34414	2.541	ug/l	98
67) m/p-Xylenes	11.62	106	24741	4.898	ug/l	98
68) o-Xylene	11.95	106	12648	2.547	ug/l	97
69) Styrene	11.96	104	16653	2.069	ug/l	96
70) Isopropylbenzene	12.25	105	32647	2.497	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	10074	2.751	ug/l	97
72) 1,2,3-Trichloropropane	12.55	75	10990	3.411	ug/l	62
73) Bromobenzene	12.53	156	8091	2.398	ug/l	99
74) n-propylbenzene	12.59	91	31564	2.208	ug/l	99
75) 2-Chlorotoluene	12.67	91	20693	2.387	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	26547	2.412	ug/l	97
77) t-1,4-Dichloro-2-butene	12.30	75	1713	1.693	ug/l	82
78) 4-Chlorotoluene	12.77	91	16666	2.023	ug/l	99
79) tert-butylbenzene	12.99	119	24100	2.537	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	22709	2.116	ug/l	97
81) sec-Butylbenzene	13.17	105	28700	2.314	ug/l	98
82) p-Isopropyltoluene	13.29	119	24421	2.193	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	9615	1.810	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	9355	1.862	ug/l	97
85) n-Butylbenzene	13.61	91	15964	1.825	ug/l	95
86) Hexachloroethane	13.87	117	4250	2.280	ug/l	95
87) 1,2-Dichlorobenzene	13.65	146	10916	2.069	ug/l	96
88) 1,2-Dibromo-3-Chloropropan	14.27	75	1151	2.032	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	3069	8.851	ug/l	95
90) Hexachlorobutadiene	15.00	225	5309	2.737	ug/l	94
91) Naphthalene	15.13	128	8618	8.614	ug/l	98
92) 1,2,3-Trichlorobenzene	15.32	180	4267	1.530	ug/l	94

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Jul 24 03:39:51 2019
Response via : Initial Calibration

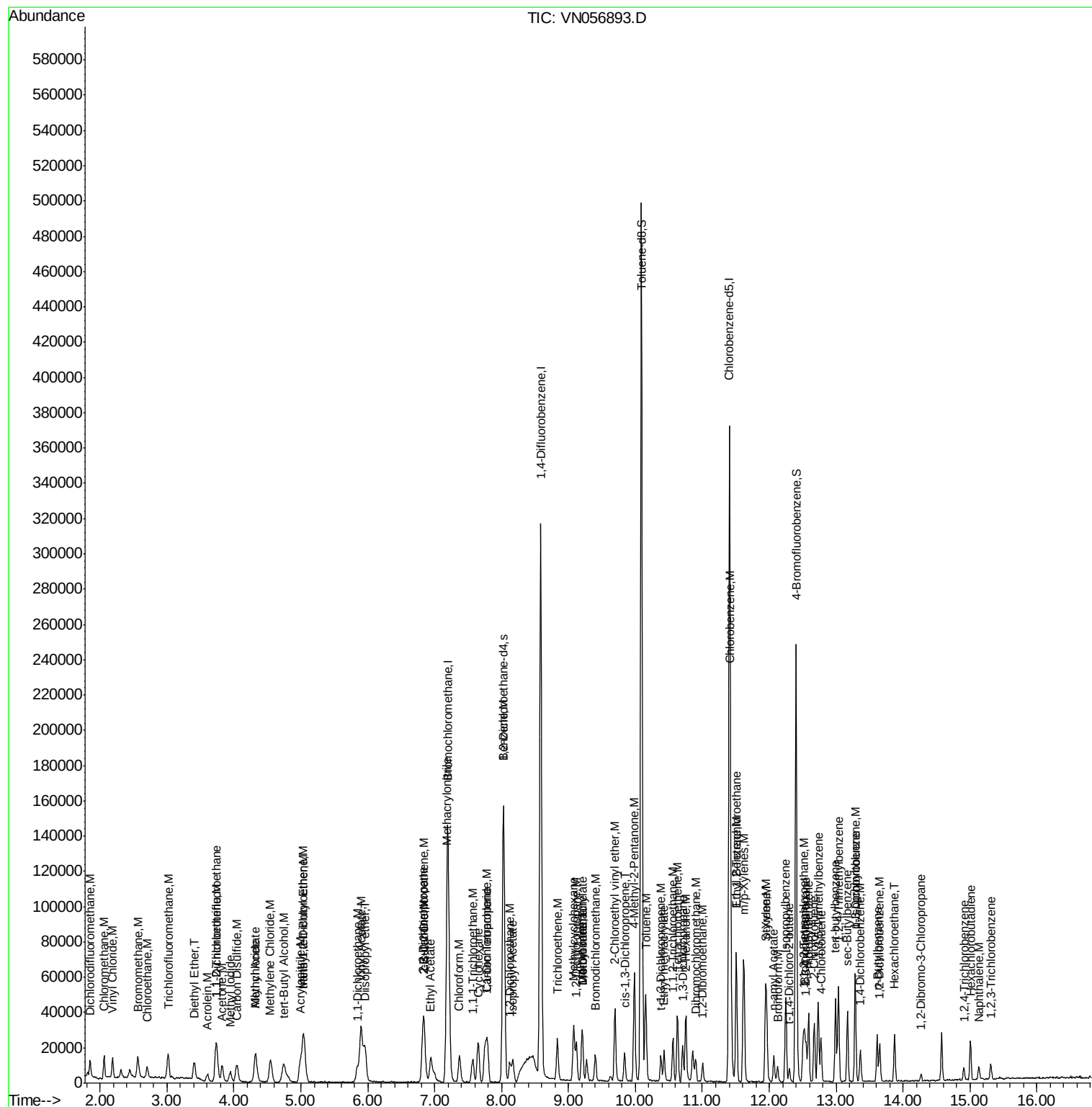
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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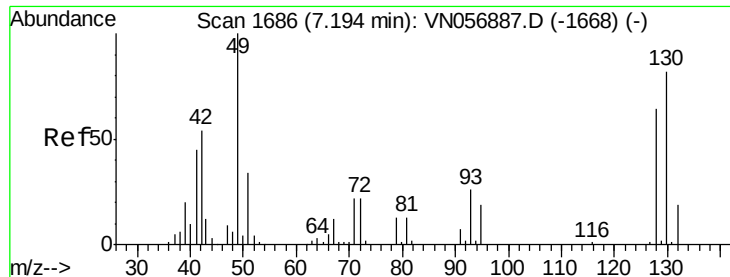
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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MDL-MDL-WATER-03-QT3-2019

Quant Time: Jul 24 03:49:21 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072419W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.20 min Scan# 1687

Delta R.T. 0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

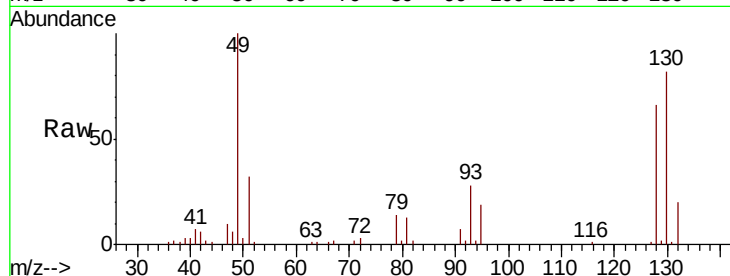
Tot Ion:128 Resp: 55472

Ion Ratio Lower Upper

128 100

49 157.8 0.0 385.8

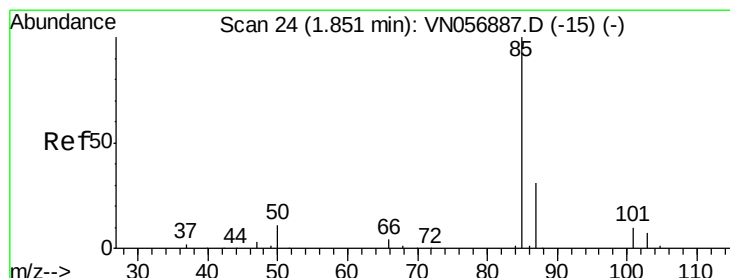
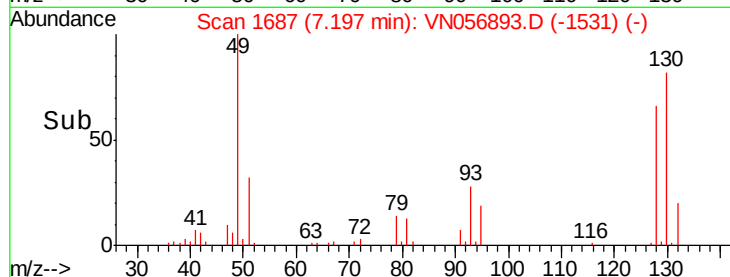
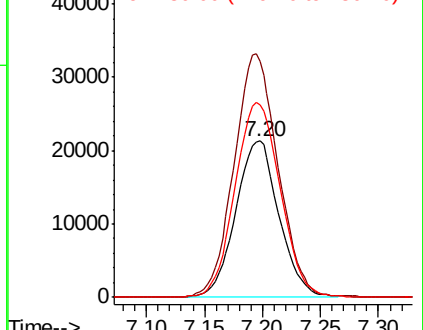
130 130.5 0.0 322.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN0

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 2.372 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN056893.D

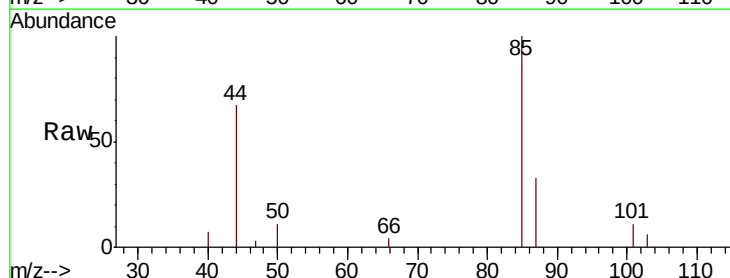
Acq: 23 Jul 2019 23:06

Tgt Ion: 85 Resp: 7868

Ion Ratio Lower Upper

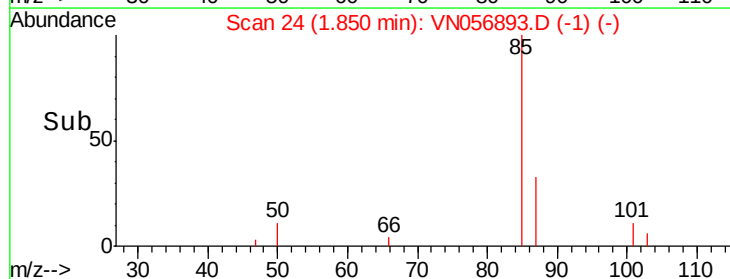
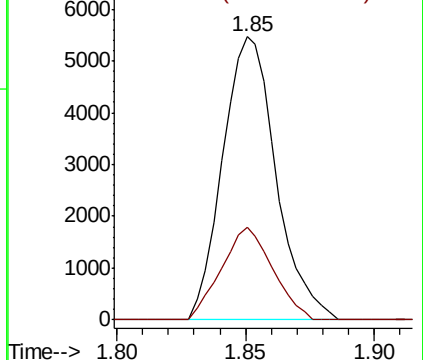
85 100

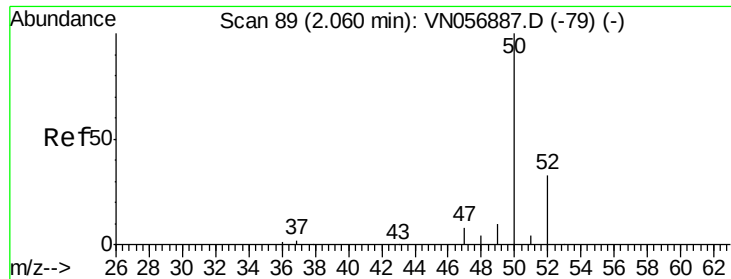
87 32.5 15.6 46.8



Abundance Ion 85.00 (84.70 to 85.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#3

Chloromethane

Concen: 2.720 ug/l

RT: 2.06 min Scan# 89

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

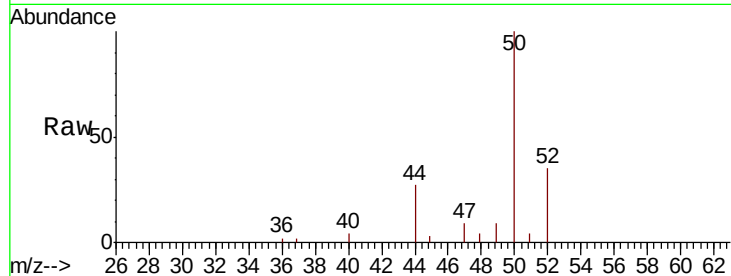
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 50 Resp: 11007

Ion Ratio Lower Upper

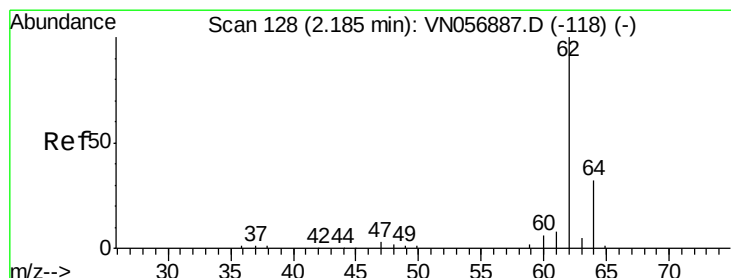
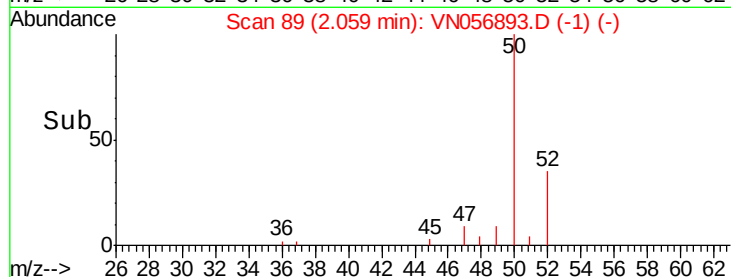
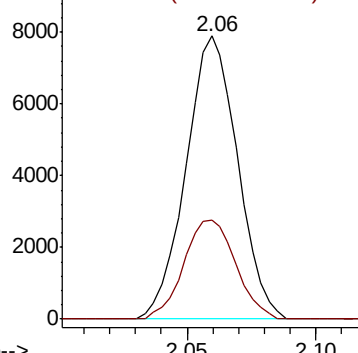
50 100

52 35.1 26.2 39.2



Abundance Ion 50.00 (49.70 to 50.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#4

Vinyl Chloride

Concen: 2.600 ug/l

RT: 2.18 min Scan# 128

Delta R.T. -0.00 min

Lab File: VN056893.D

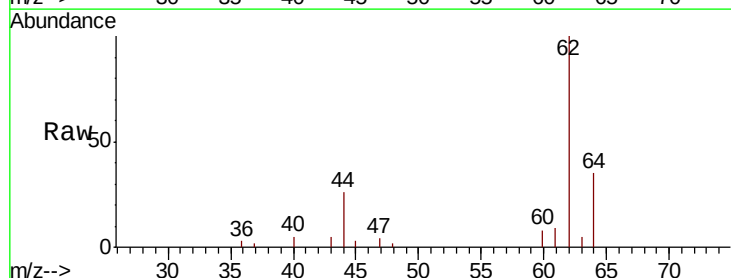
Acq: 23 Jul 2019 23:06

Tgt Ion: 62 Resp: 10145

Ion Ratio Lower Upper

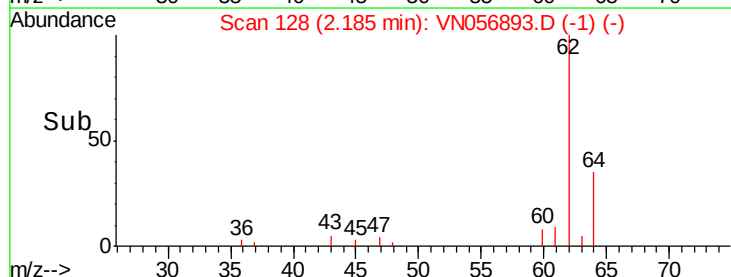
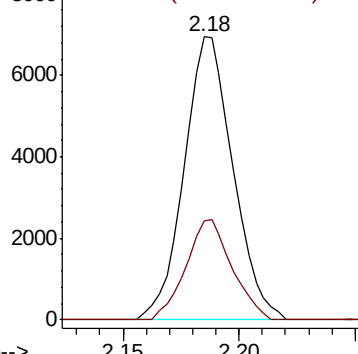
62 100

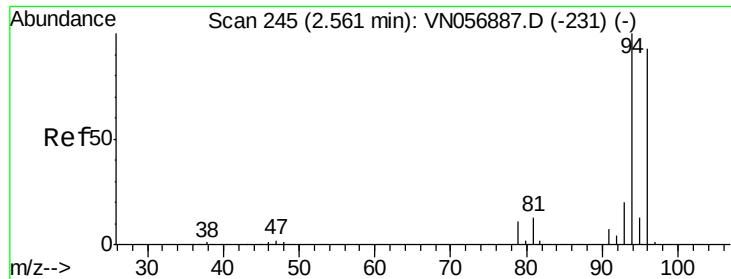
64 34.9 25.4 38.0



Abundance Ion 62.00 (61.70 to 62.70): VN0

Ion 64.00 (63.70 to 64.70): VN0

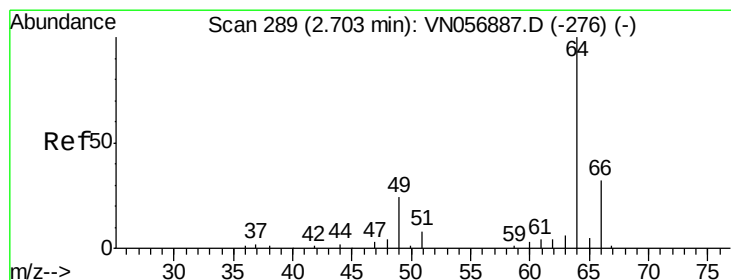
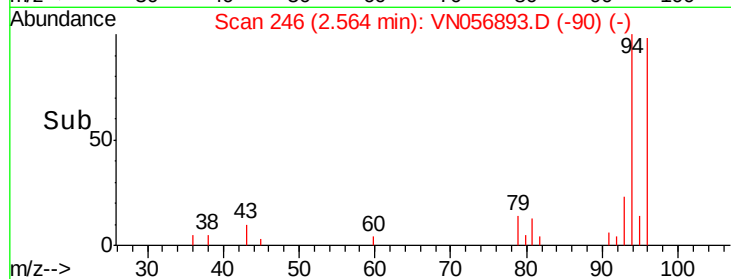
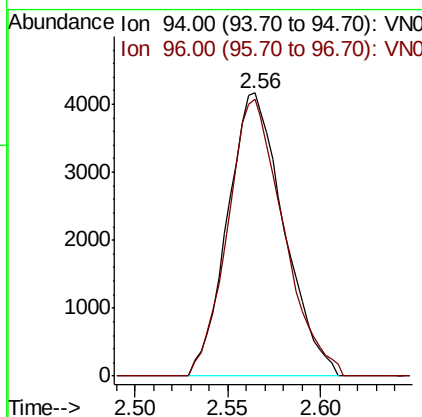
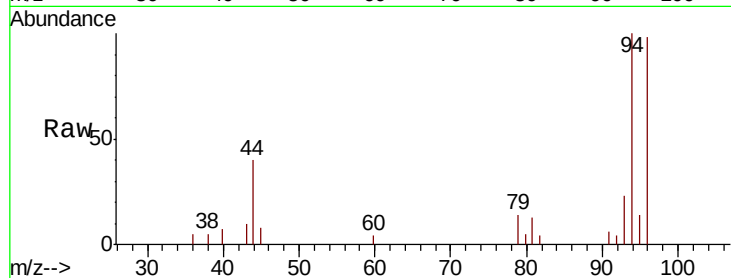




#5
Bromomethane
Concen: 3.659 ug/l
RT: 2.56 min Scan# 246
Delta R.T. 0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

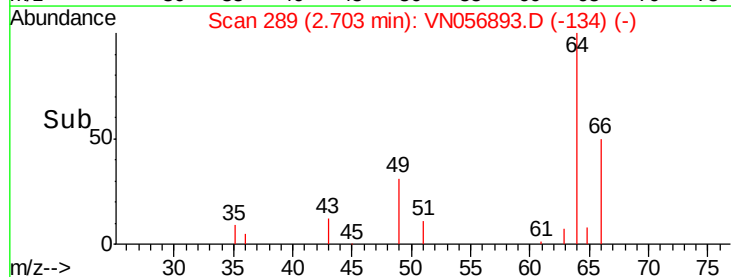
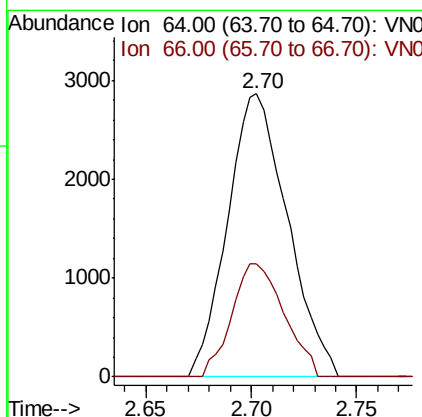
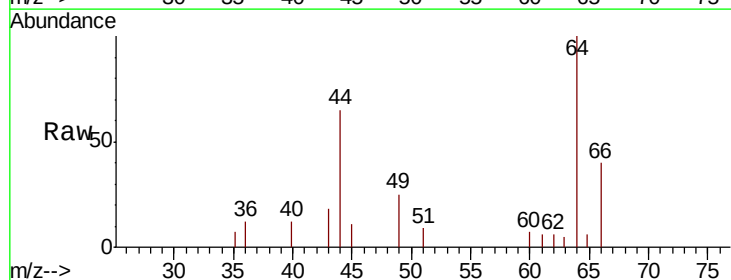
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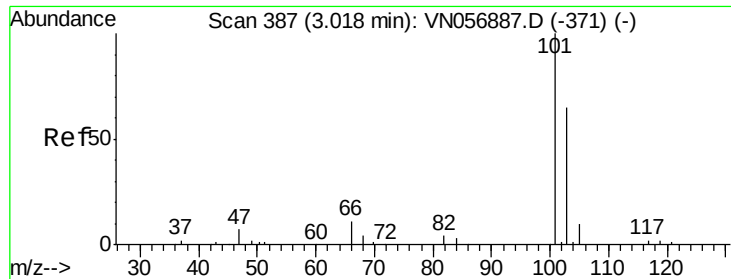
Tot Ion: 94 Resp: 8766
Ion Ratio Lower Upper
94 100
96 97.8 74.7 112.1



#6
Chloroethane
Concen: 2.613 ug/l
RT: 2.70 min Scan# 289
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion: 64 Resp: 5655
Ion Ratio Lower Upper
64 100
66 40.2 25.8 38.8#



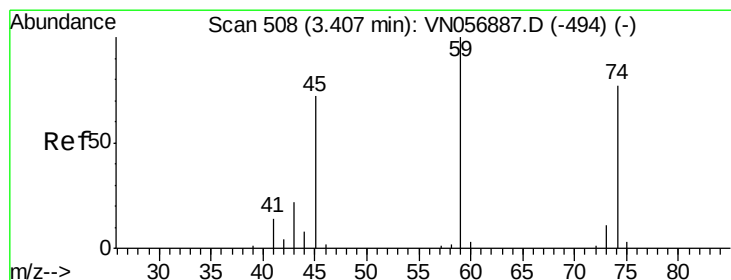
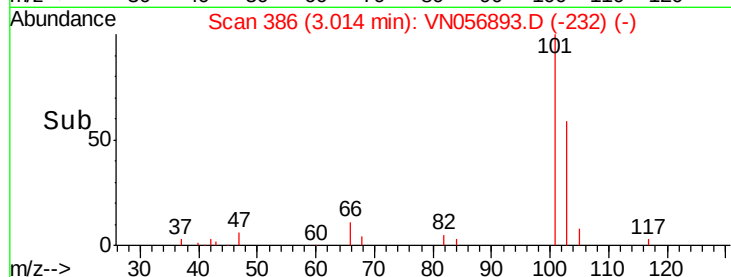
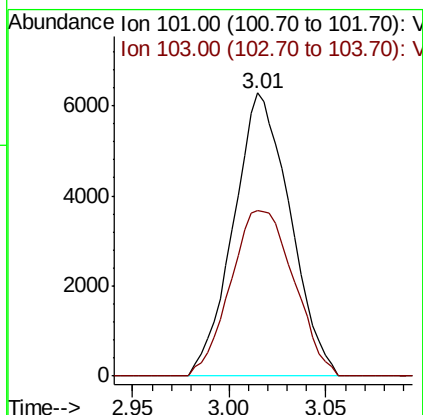
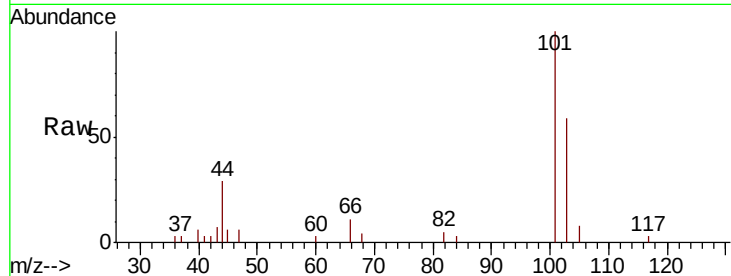


#7

Trichlorofluoromethane
 Concen: 2.684 ug/l
 RT: 3.01 min Scan# 386
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Instrument :
 MSVOA_N
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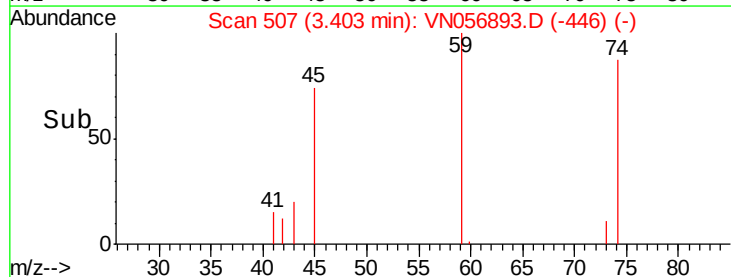
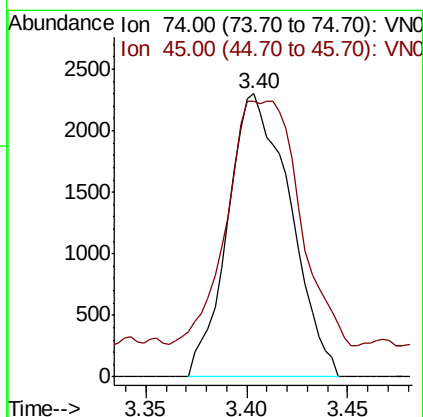
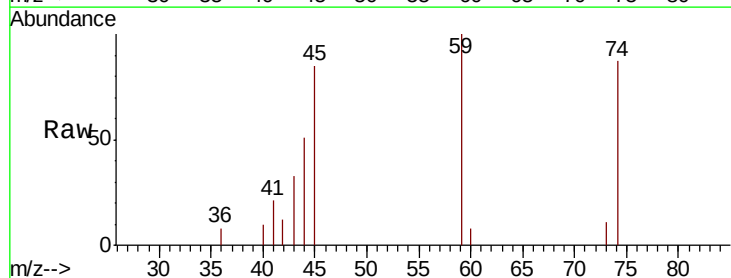
Tot Ion:101 Resp: 12754
 Ion Ratio Lower Upper
 101 100
 103 58.6 52.2 78.4

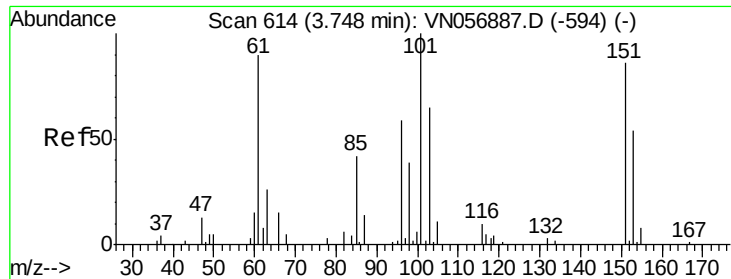


#8

Diethyl Ether
 Concen: 2.803 ug/l
 RT: 3.40 min Scan# 507
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Tgt Ion: 74 Resp: 4963
 Ion Ratio Lower Upper
 74 100
 45 48.9 19.5 175.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.735 ug/l

RT: 3.74 min Scan# 613

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

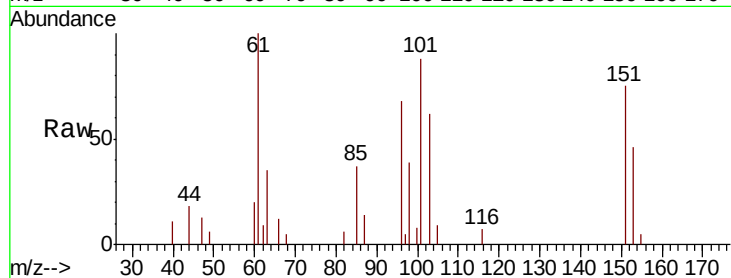
Tot Ion:101 Resp: 8161

Ion Ratio Lower Upper

101 100

85 41.0 0.0 85.0

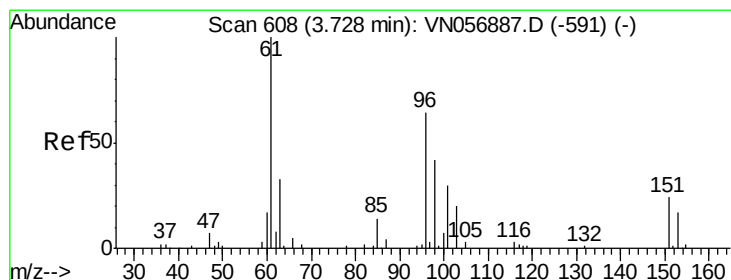
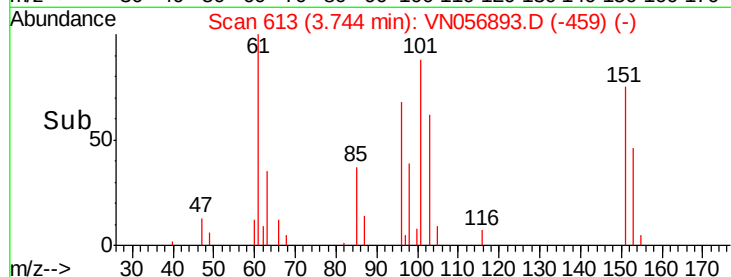
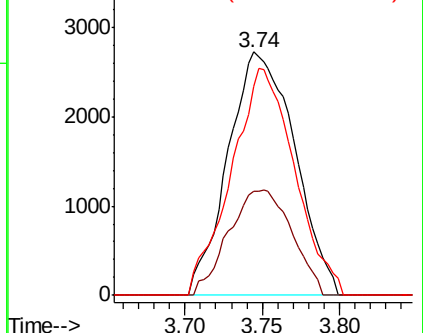
151 88.5 0.0 167.2



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VN

Ion 151.00 (150.70 to 151.70): V



#10

1,1-Dichloroethene

Concen: 2.870 ug/l

RT: 3.73 min Scan# 608

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

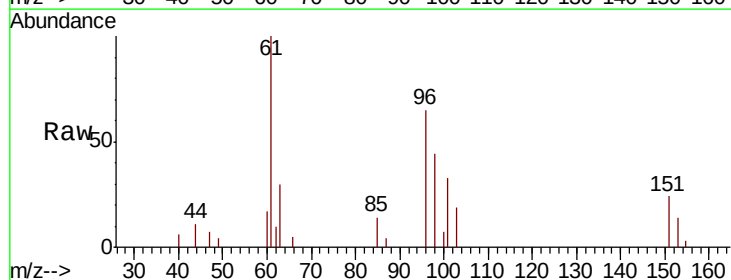
Tgt Ion: 96 Resp: 8499

Ion Ratio Lower Upper

96 100

61 148.1 125.8 188.8

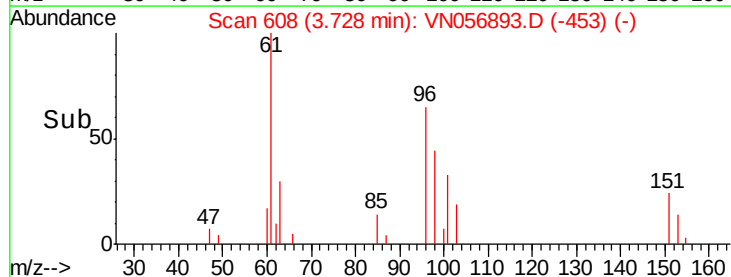
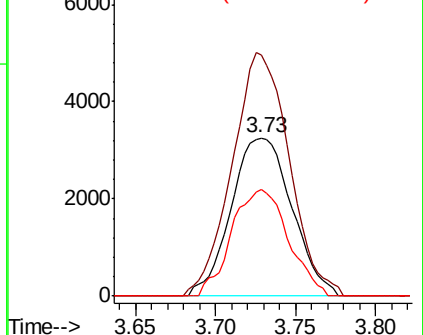
98 67.4 52.7 79.1

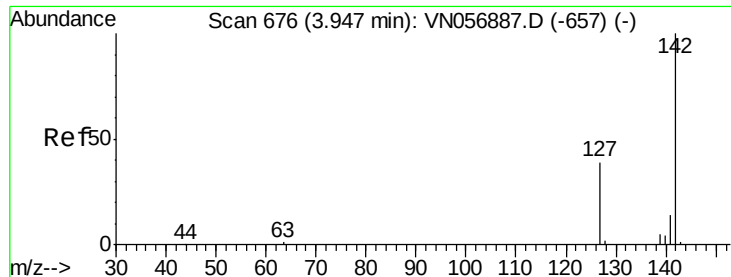


Abundance Ion 96.00 (95.70 to 96.70): VN

Ion 61.00 (60.70 to 61.70): VN

Ion 98.00 (97.70 to 98.70): VN

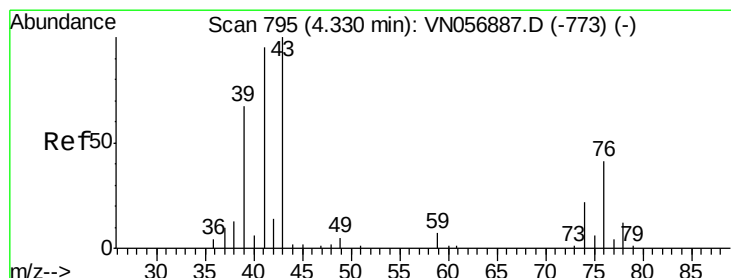
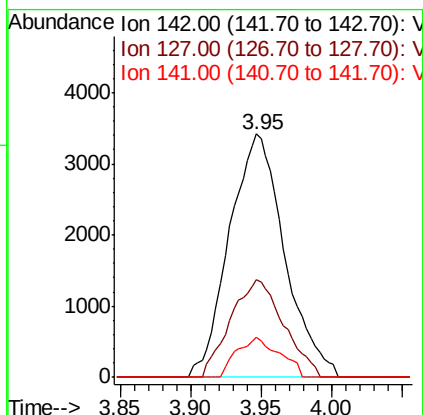
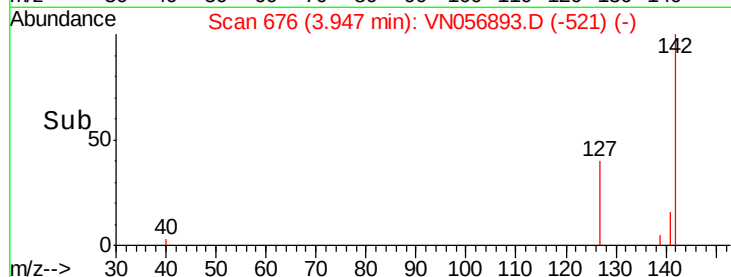
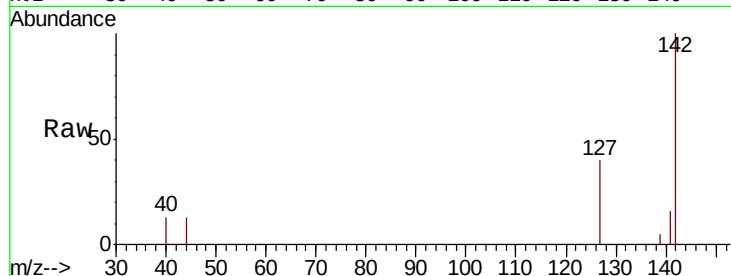




#11
Methvl Iodide
Concen: 2.130 ug/l
RT: 3.95 min Scan# 676
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

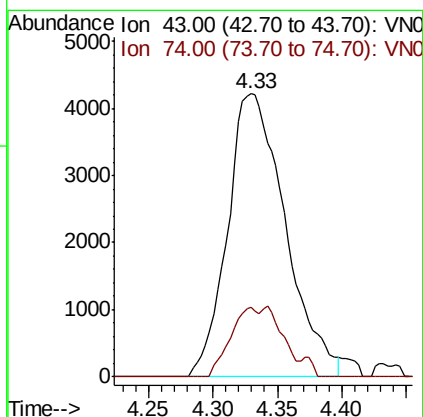
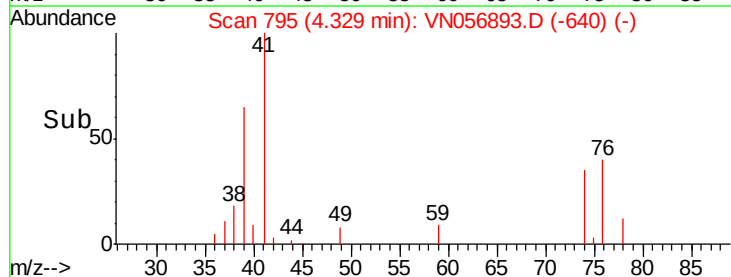
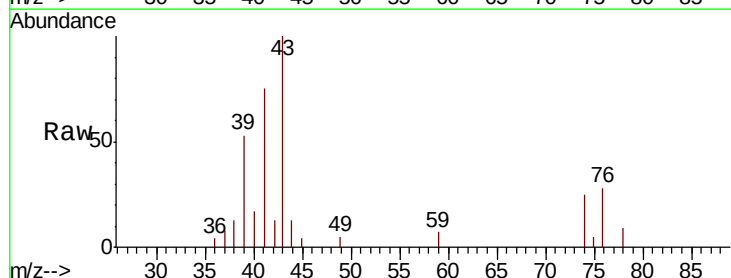
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

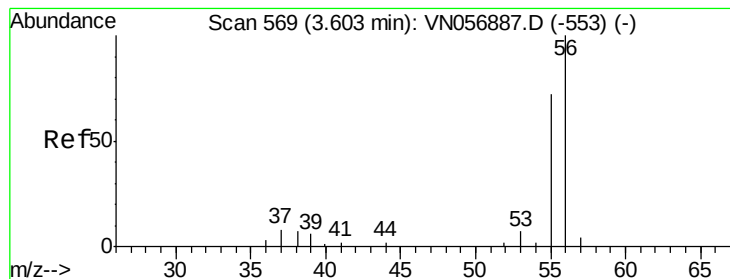
Tot Ion:142 Resp: 9330
Ion Ratio Lower Upper
142 100
127 40.1 19.6 58.8
141 16.4 7.2 21.6



#12
Methyl Acetate
Concen: 3.627 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion: 43 Resp: 13147
Ion Ratio Lower Upper
43 100
74 25.7 18.1 27.1





#13

Acrolein

Concen: 6.434 ug/l

RT: 3.60 min Scan# 567

Delta R.T. -0.01 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

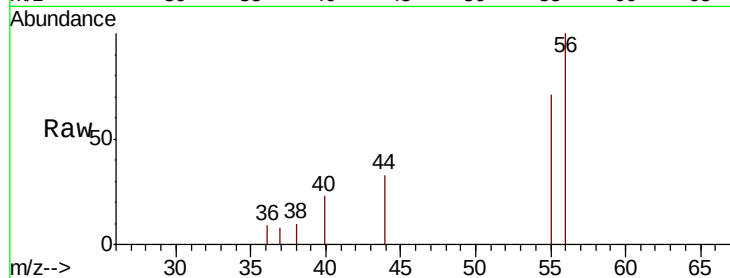
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 56 Resp: 2639

Ion Ratio Lower Upper

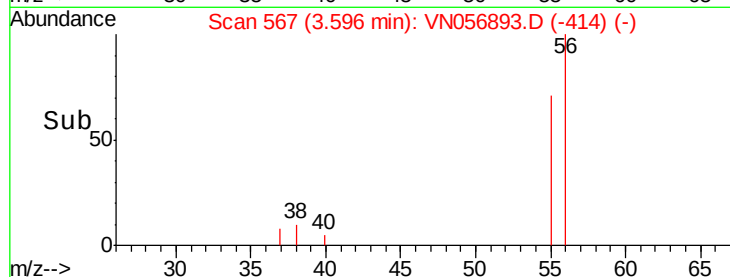
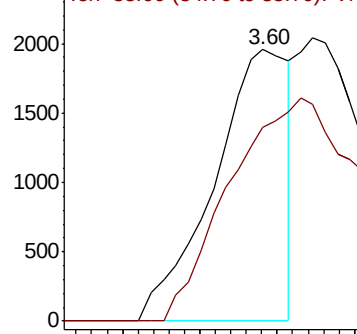
56 100

55 149.2 58.5 87.7#

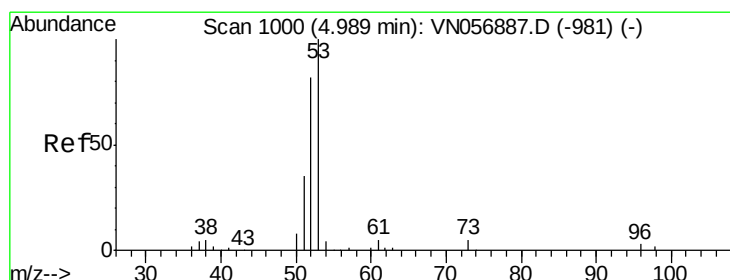


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



Time-->



#14

Acrylonitrile

Concen: 6.078 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

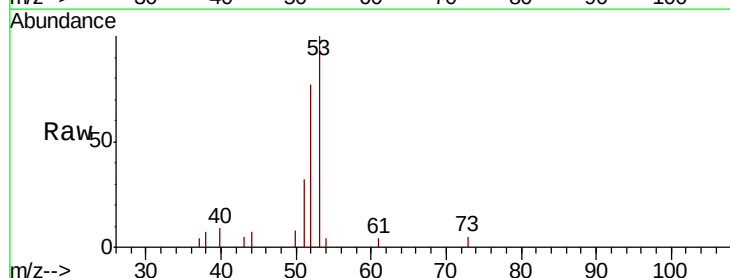
Tgt Ion: 53 Resp: 8496

Ion Ratio Lower Upper

53 100

52 163.5 40.8 122.5#

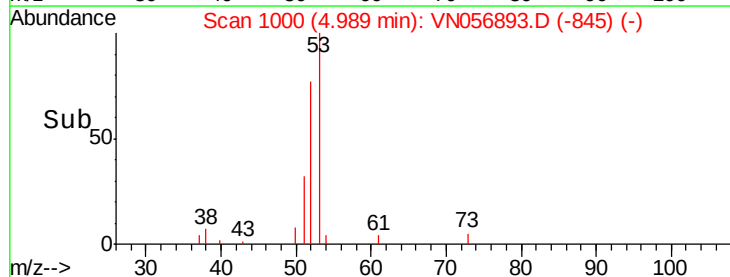
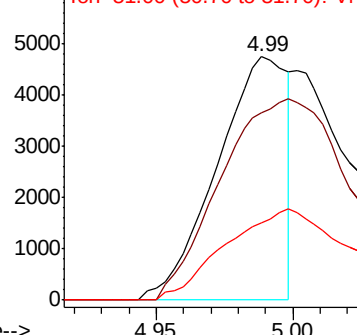
51 61.4 17.4 52.2#



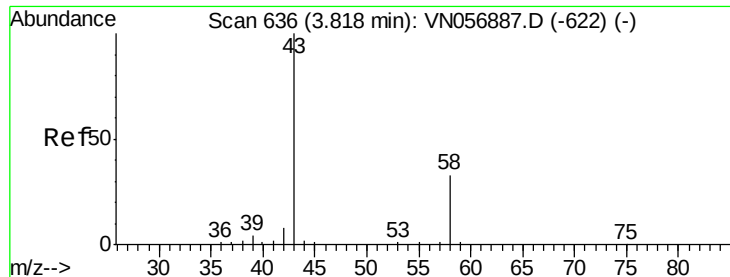
Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0



Time-->



#15

Acetone

Concen: 13.402 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

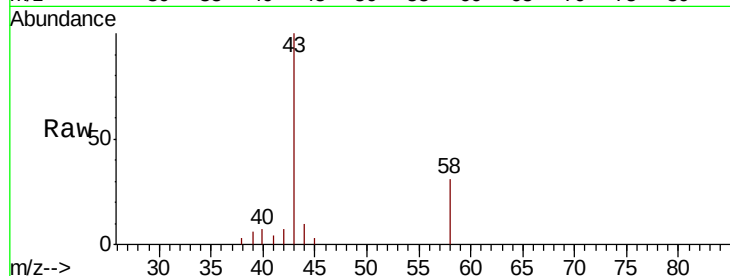
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 58 Resp: 4843

Ion Ratio Lower Upper

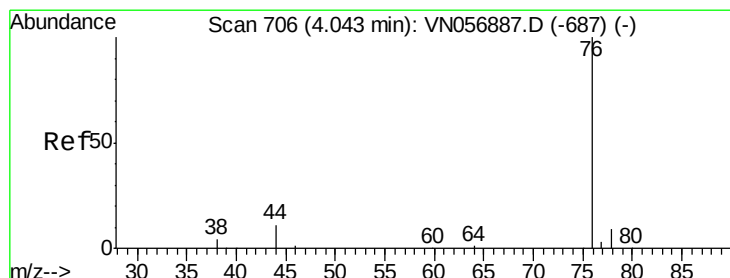
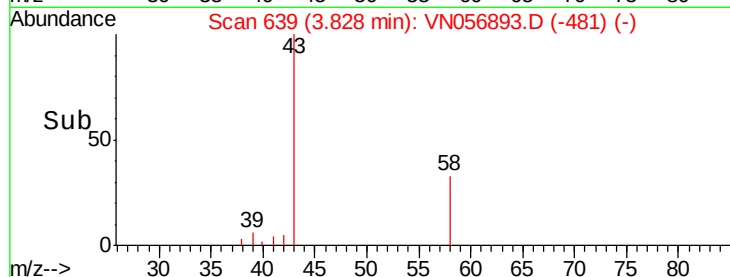
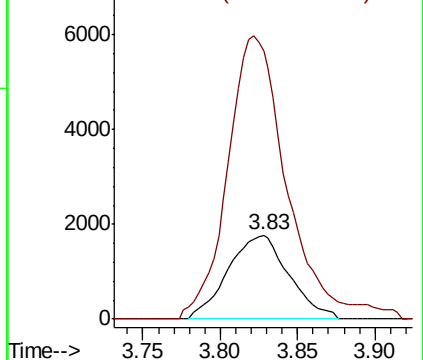
58 100

43 304.1 242.4 363.6



Abundance Ion 58.00 (57.70 to 58.70): VN0

Ion 43.00 (42.70 to 43.70): VN0



#16

Carbon Disulfide

Concen: 1.174 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.01 min

Lab File: VN056893.D

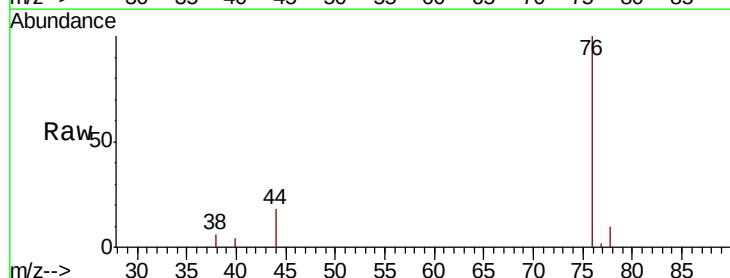
Acq: 23 Jul 2019 23:06

Tgt Ion: 76 Resp: 9376

Ion Ratio Lower Upper

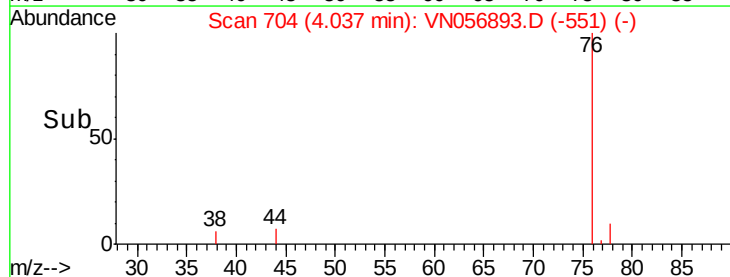
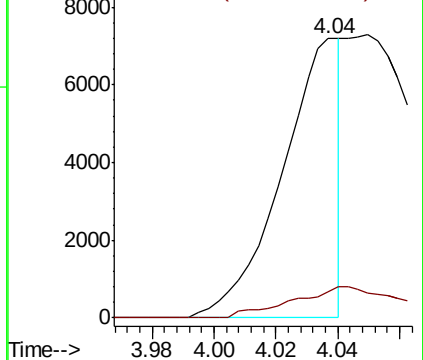
76 100

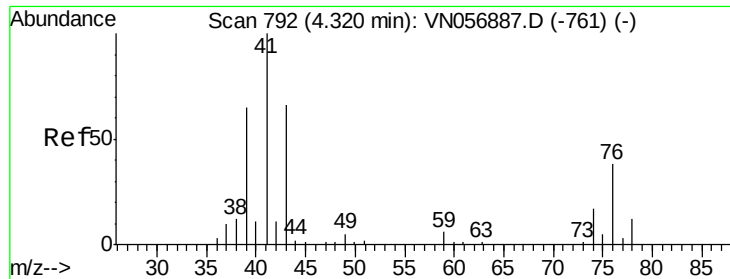
78 9.5 7.1 10.7



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

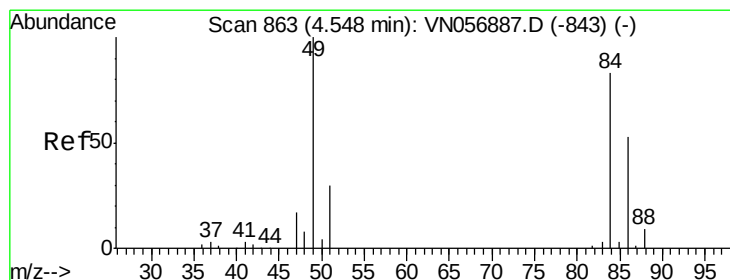
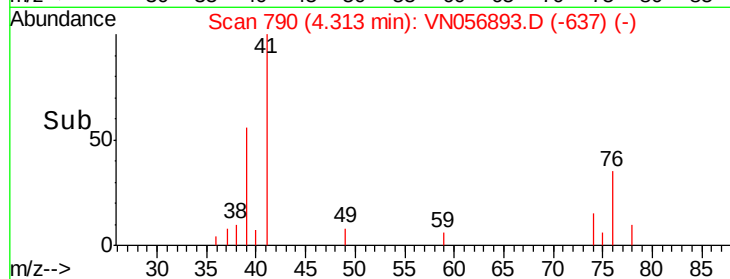
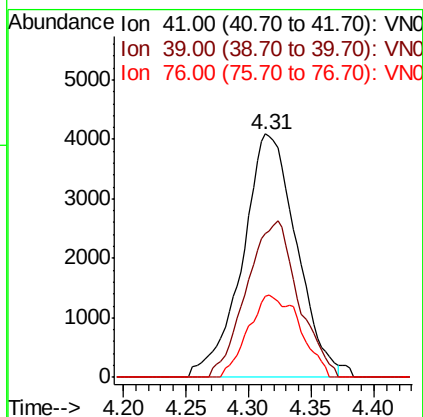
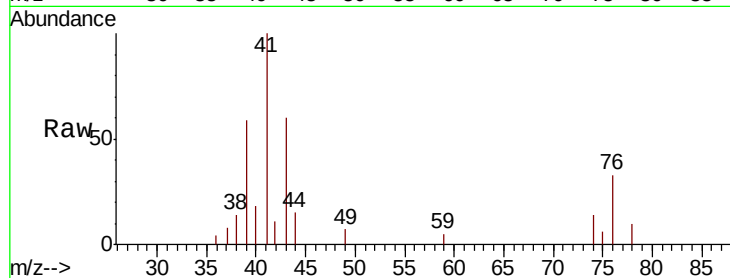




#17
Allvl chloride
Concen: 2.465 ug/l
RT: 4.31 min Scan# 790
Delta R.T. -0.01 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

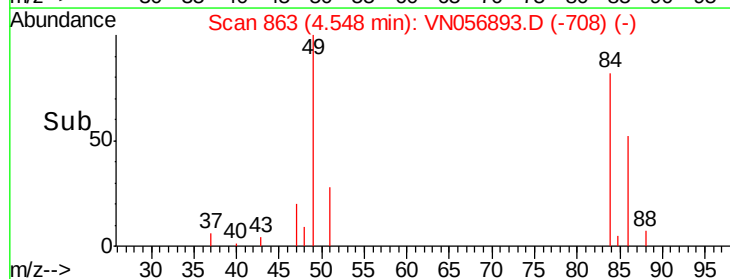
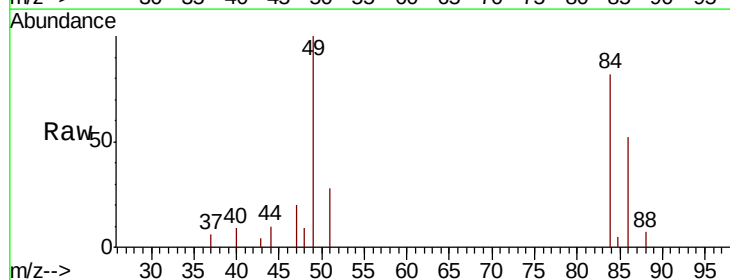
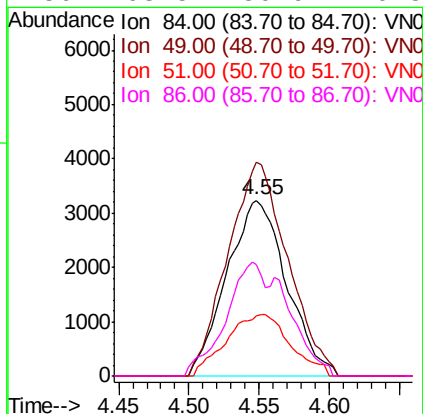
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

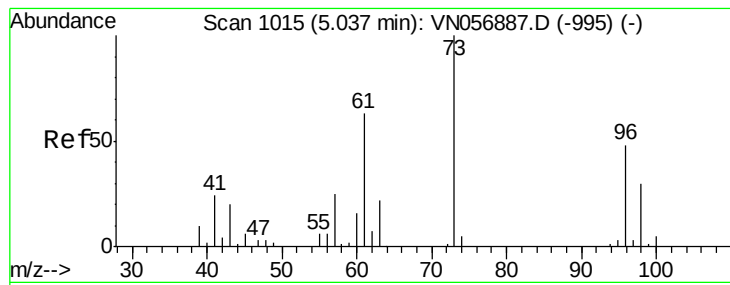
Tot Ion: 41 Resp: 12214
Ion Ratio Lower Upper
41 100
39 59.3 32.4 97.0
76 33.1 19.0 57.0



#18
Methylene Chloride
Concen: 2.777 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion: 84 Resp: 9573
Ion Ratio Lower Upper
84 100
49 121.6 96.3 144.5
51 34.3 28.8 43.2
86 63.5 50.9 76.3





#19

trans-1,2-Dichloroethene

Concen: 2.589 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. 0.01 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

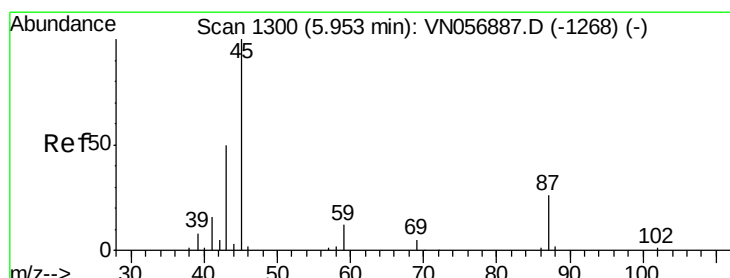
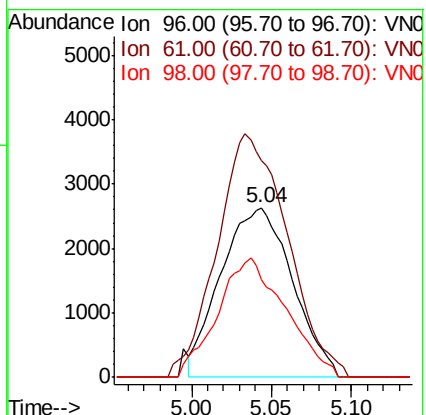
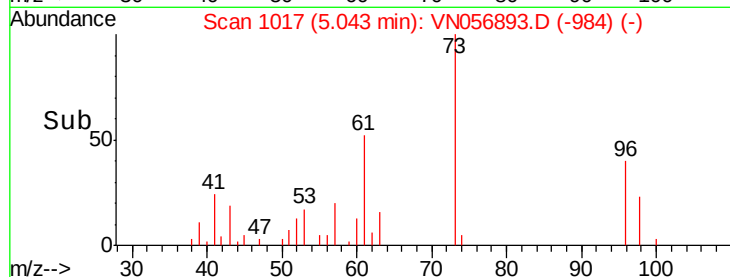
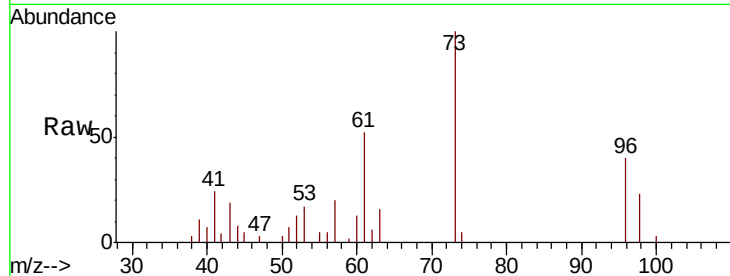
Tot Ion: 96 Resp: 8115

Ion Ratio Lower Upper

96 100

61 119.1 105.4 158.0

98 58.0 50.8 76.2



#20

Diisopropyl ether

Concen: 2.573 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Tgt Ion: 45 Resp: 25884

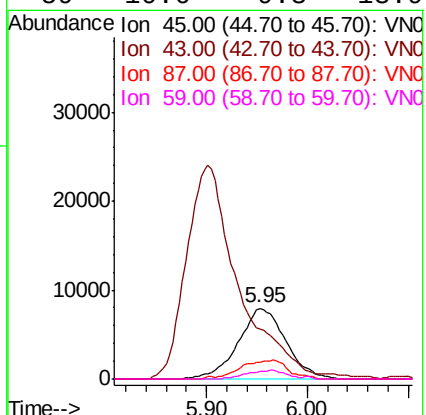
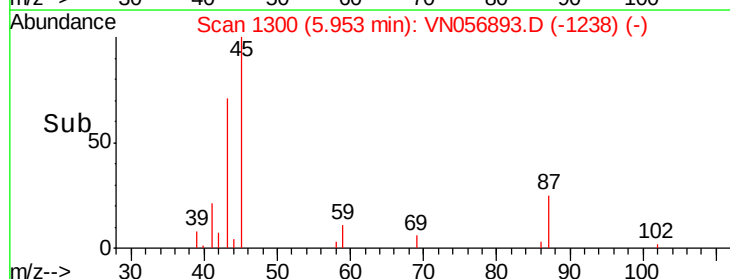
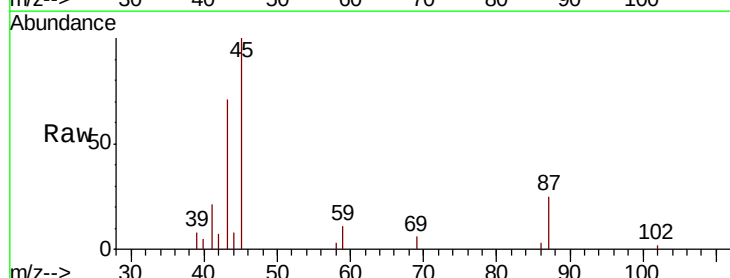
Ion Ratio Lower Upper

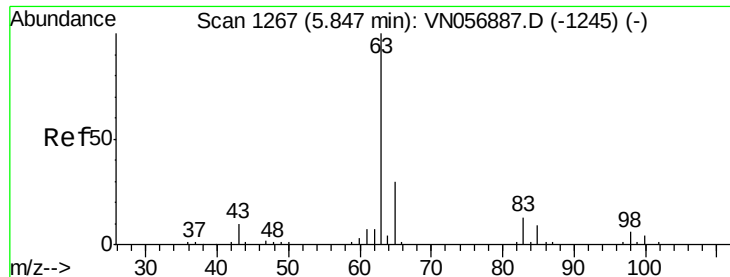
45 100

43 65.6 47.4 71.0

87 24.5 21.7 32.5

59 10.6 9.3 13.9

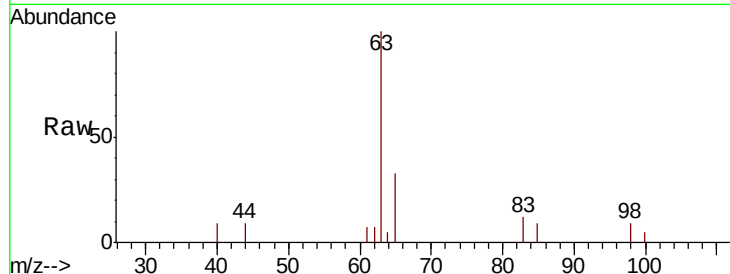




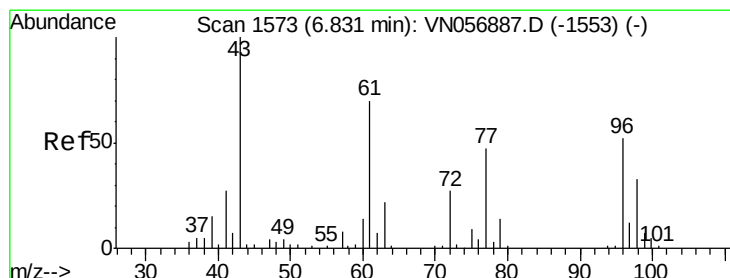
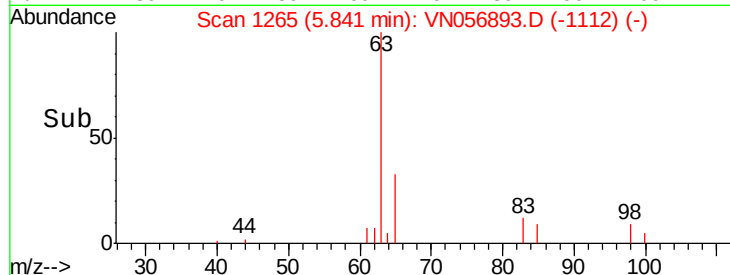
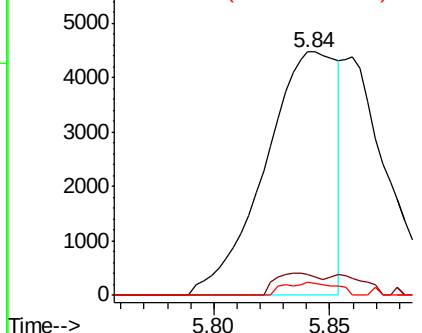
#21
 1,1-Dichloroethane
 Concen: 1.642 ug/l
 RT: 5.84 min Scan# 1265
 Delta R.T. -0.01 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion: 63 Resp: 9603
 Ion Ratio Lower Upper
 63 100
 98 8.8 3.1 9.3
 100 5.4 1.8 5.5

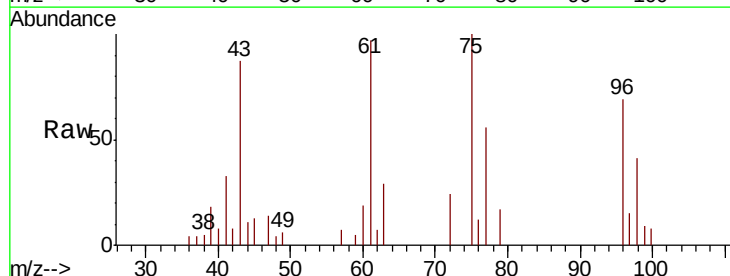


Abundance Ion 63.00 (62.70 to 63.70): VN0
 Ion 98.00 (97.70 to 98.70): VN0
 Ion 100.00 (99.70 to 100.70): VN0

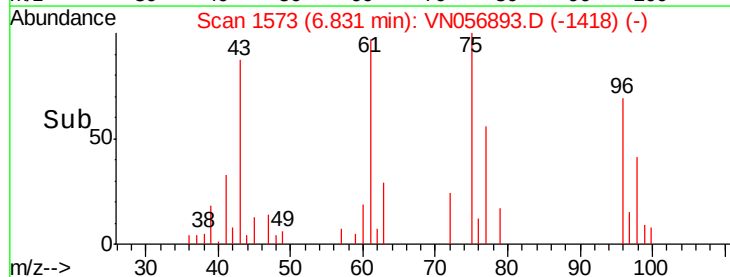
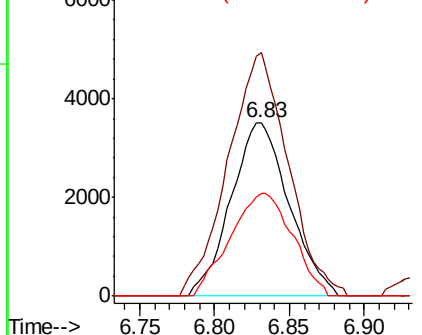


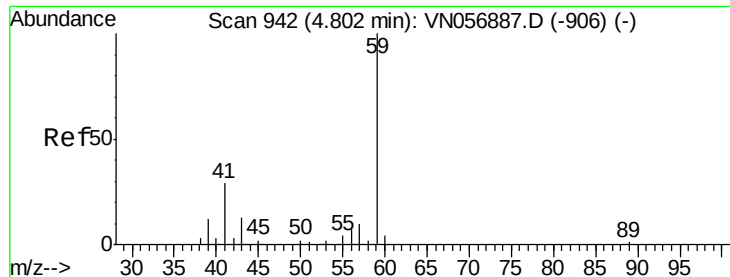
#22
 cis-1,2-Dichloroethene
 Concen: 2.611 ug/l
 RT: 6.83 min Scan# 1573
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Tgt Ion: 96 Resp: 9483
 Ion Ratio Lower Upper
 96 100
 61 144.9 111.6 167.4
 98 63.4 51.0 76.4



Abundance Ion 96.00 (95.70 to 96.70): VN0
 Ion 61.00 (60.70 to 61.70): VN0
 Ion 98.00 (97.70 to 98.70): VN0





#23

tert-Butyl Alcohol

Concen: 20.669 ug/l

RT: 4.74 min Scan# 924

Delta R.T. -0.06 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

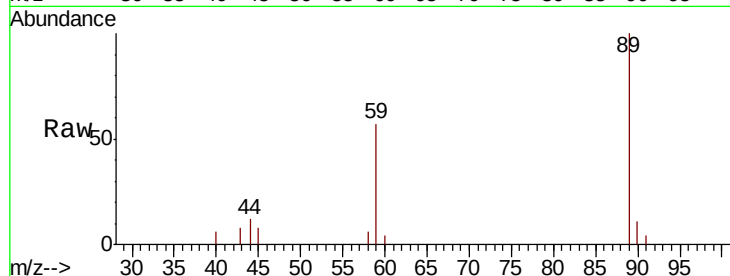
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 59 Resp: 9641

Ion Ratio Lower Upper

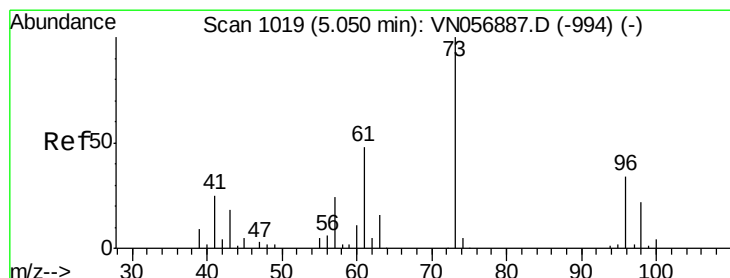
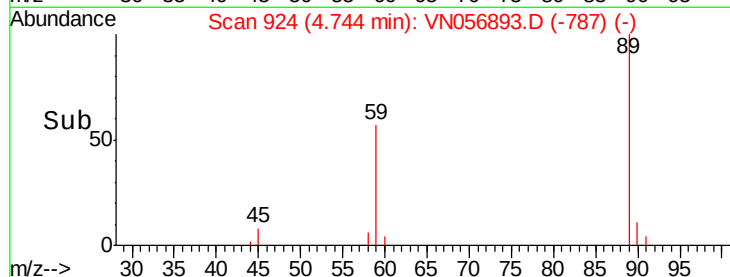
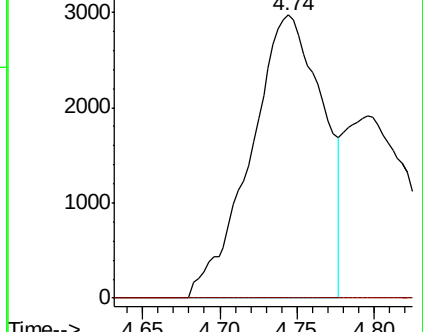
59 100

52 0.0 0.0 0.0



Abundance Ion 59.00 (58.70 to 59.70): VN056887.D (-906) (-)

Ion 52.00 (51.70 to 52.70): VN056887.D (-906) (-)



#24

Methyl tert-Butyl Ether

Concen: 1.342 ug/l

RT: 5.04 min Scan# 1017

Delta R.T. -0.01 min

Lab File: VN056893.D

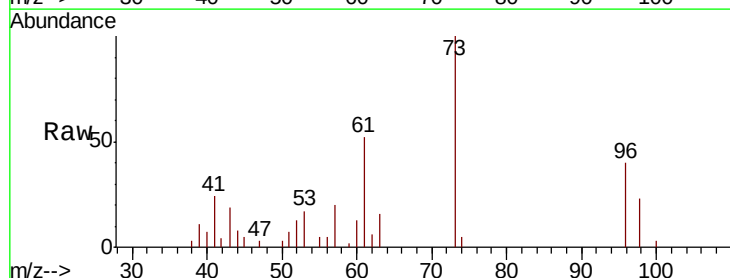
Acq: 23 Jul 2019 23:06

Tgt Ion: 73 Resp: 12018

Ion Ratio Lower Upper

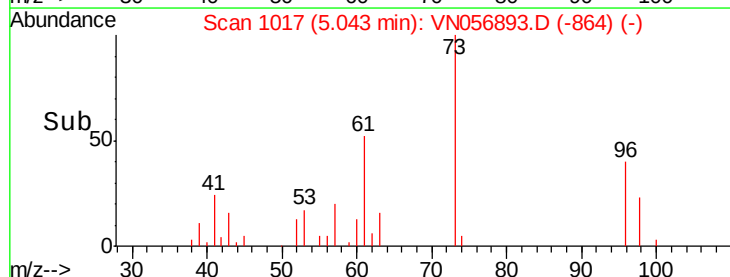
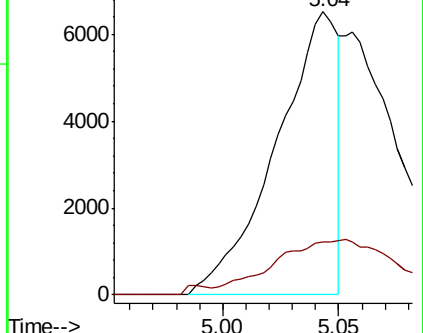
73 100

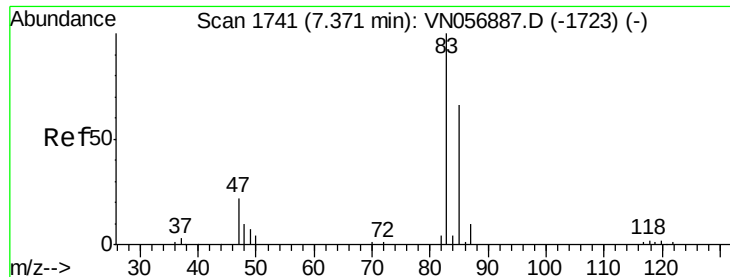
43 33.1 15.4 23.0#



Abundance Ion 73.00 (72.70 to 73.70): VN056887.D (-994) (-)

Ion 43.00 (42.70 to 43.70): VN056887.D (-994) (-)

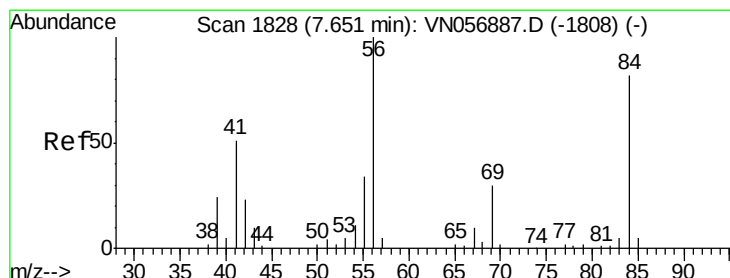
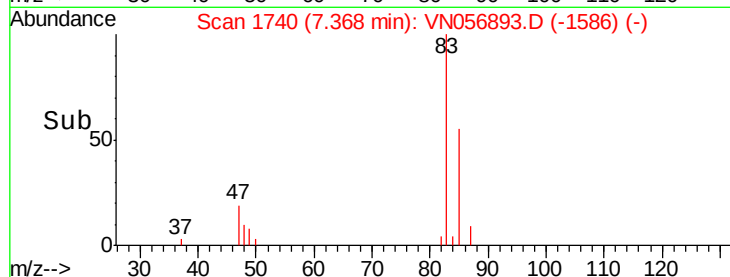
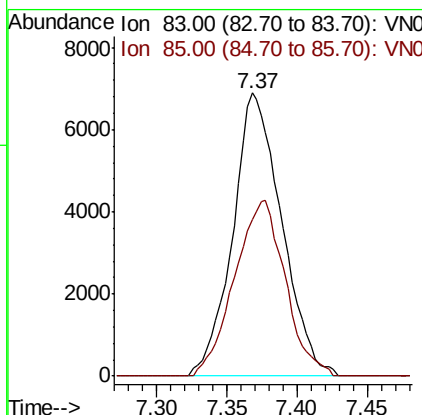
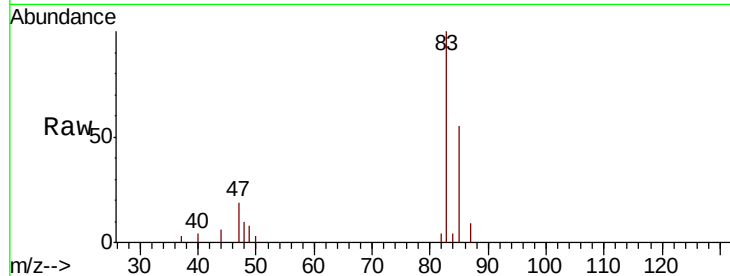




#25
Chloroform
Concen: 2.931 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

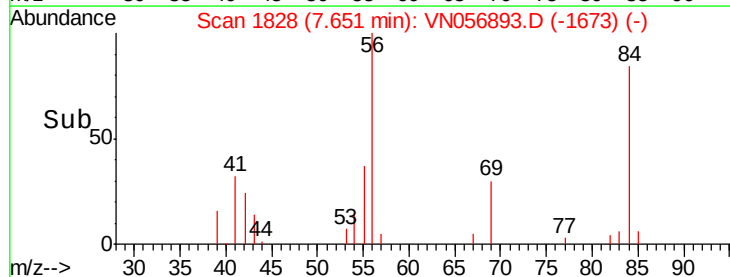
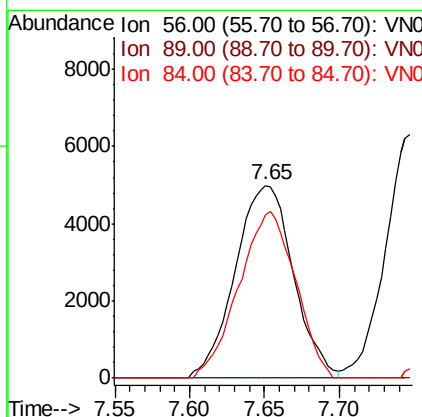
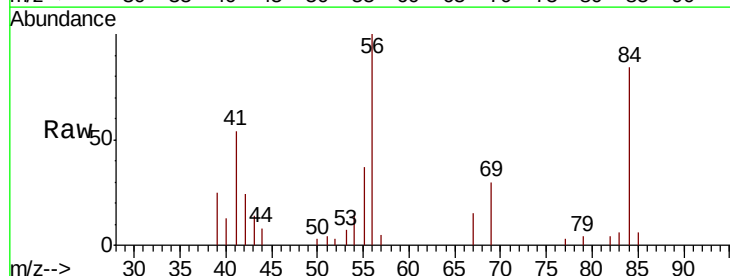
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

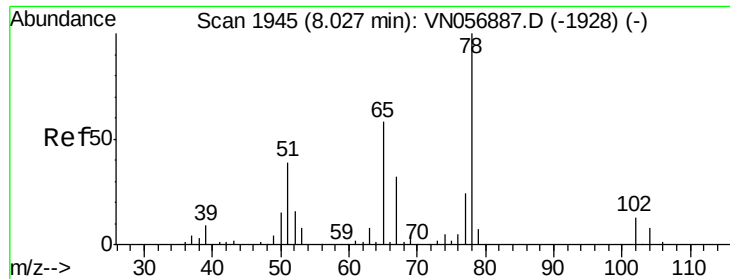
Tot Ion: 83 Resp: 16717
Ion Ratio Lower Upper
83 100
85 55.3 53.1 79.7



#26
Cyclohexane
Concen: 2.515 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion: 56 Resp: 13511
Ion Ratio Lower Upper
56 100
89 0.0 0.0 0.0
84 83.8 67.8 101.6

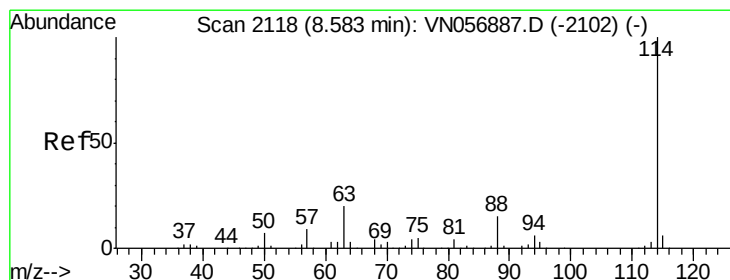
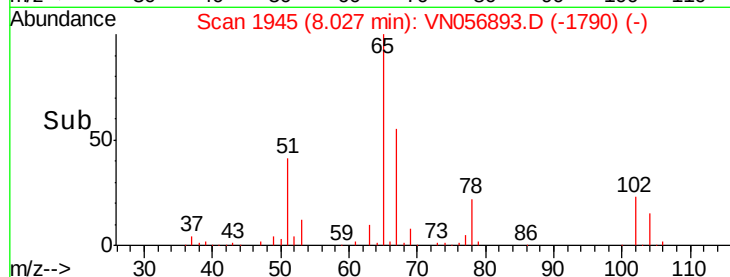
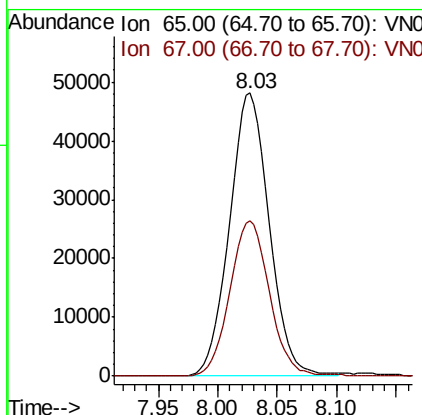
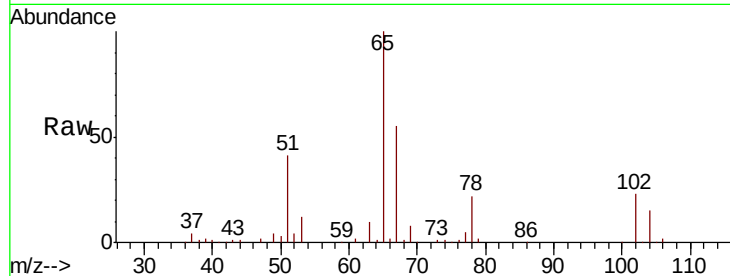




#27
 1,2-Dichloroethane-d4
 Concen: 30.670 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

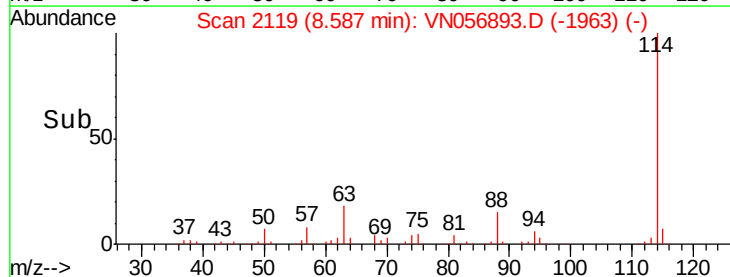
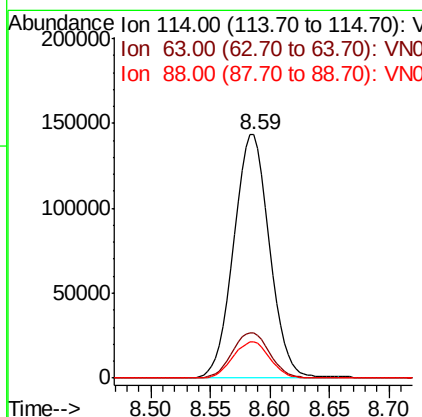
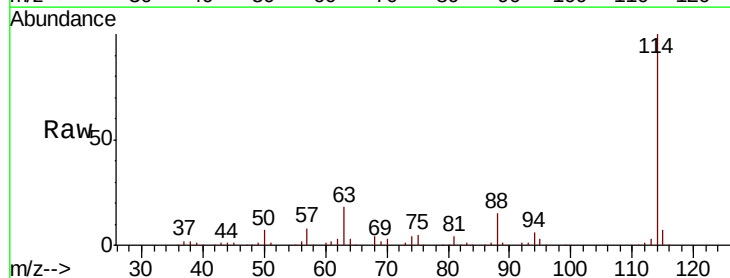
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

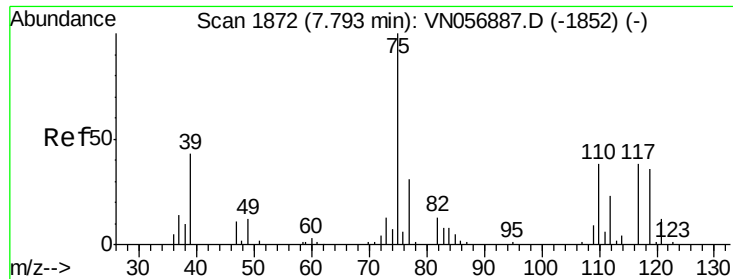
Tot Ion: 65 Resp: 111343
 Ion Ratio Lower Upper
 65 100
 67 54.4 44.6 66.8



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Tgt Ion: 114 Resp: 300230
 Ion Ratio Lower Upper
 114 100
 63 19.5 15.8 23.6
 88 15.5 12.5 18.7

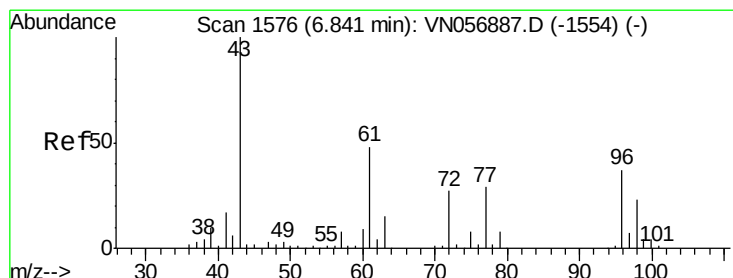
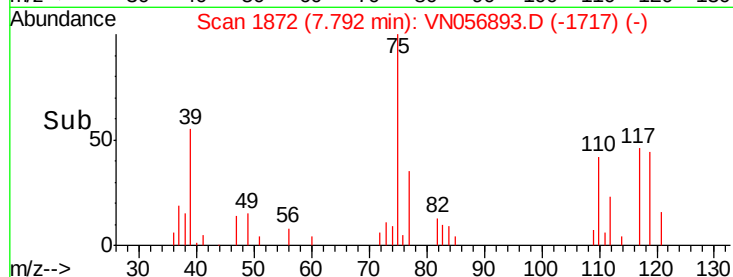
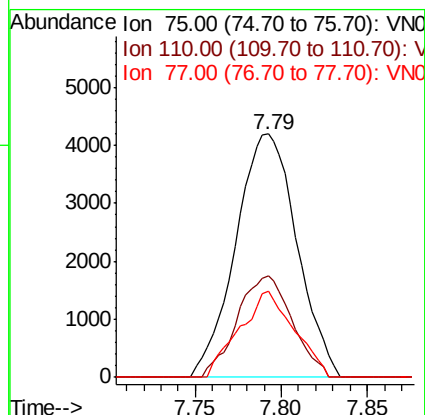
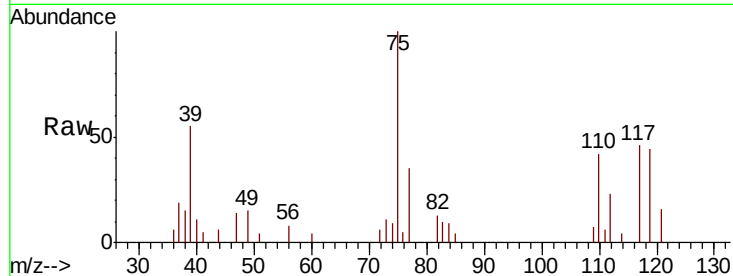




#29
 1,1-Dichloropropene
 Concen: 2.431 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

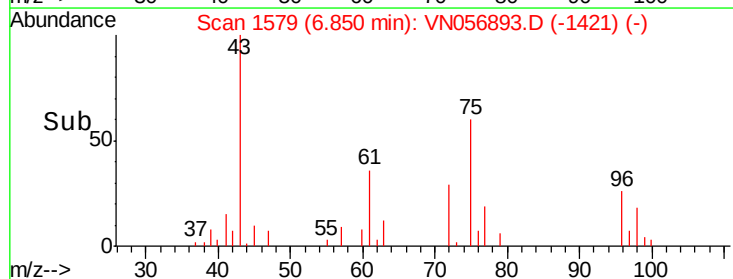
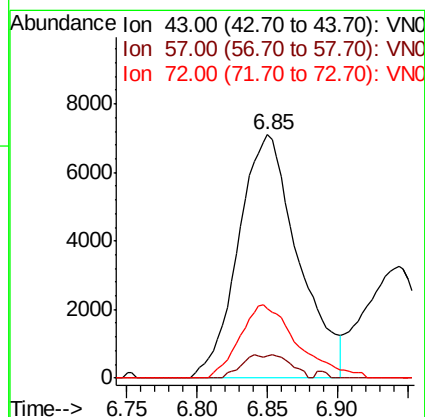
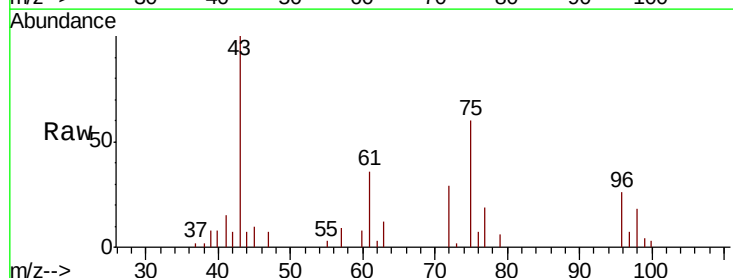
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

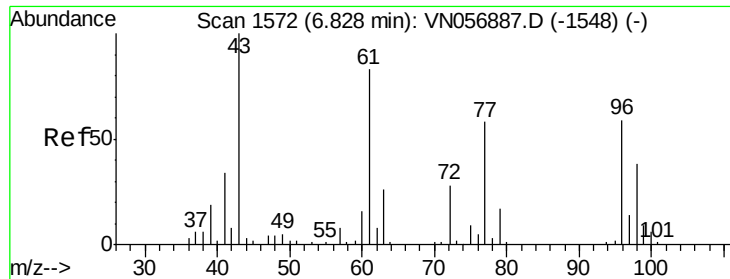
Tot Ion: 75 Resp: 10358
 Ion Ratio Lower Upper
 75 100
 110 37.6 0.0 75.8
 77 31.6 0.0 64.0



#30
 2-Butanone
 Concen: 12.286 ug/l
 RT: 6.85 min Scan# 1579
 Delta R.T. 0.01 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Tgt Ion: 43 Resp: 21030
 Ion Ratio Lower Upper
 43 100
 57 3.7 6.5 9.7#
 72 28.8 22.1 33.1

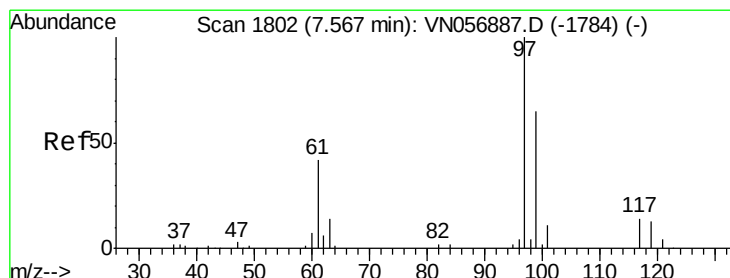
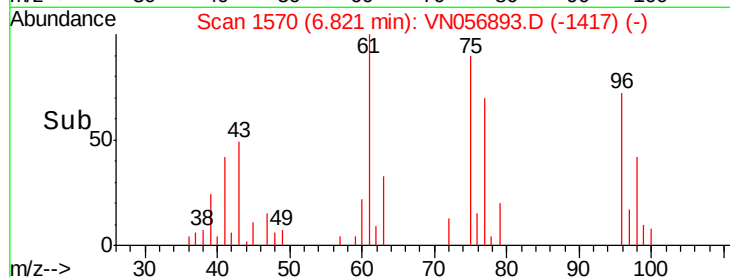
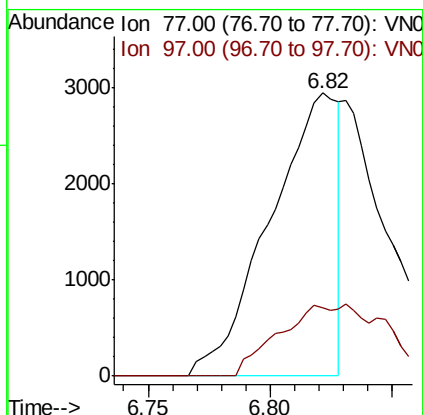
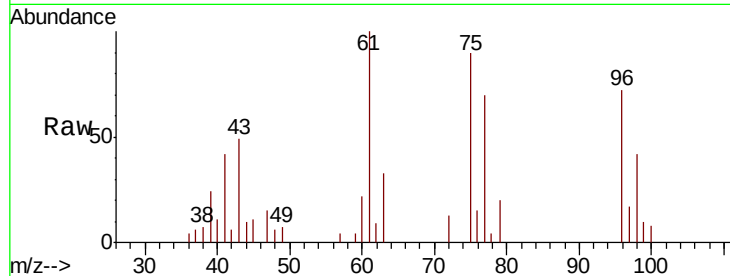




#31
 2,2-Dichloropropane
 Concen: 1.441 ug/l
 RT: 6.82 min Scan# 1570
 Delta R.T. -0.01 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

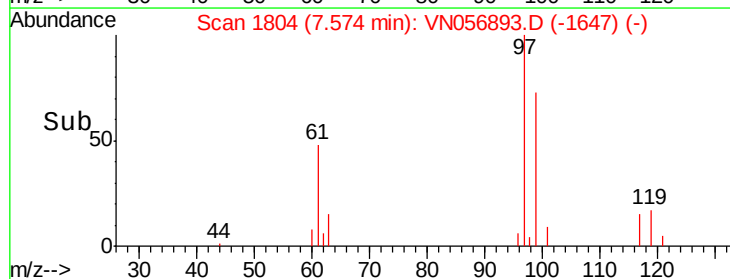
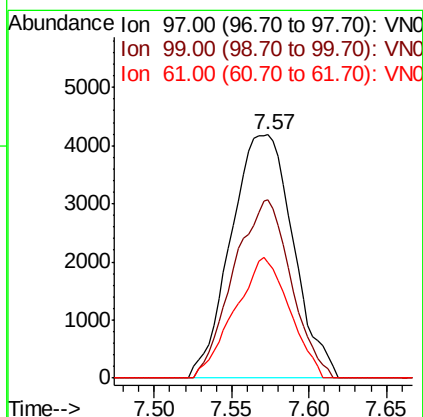
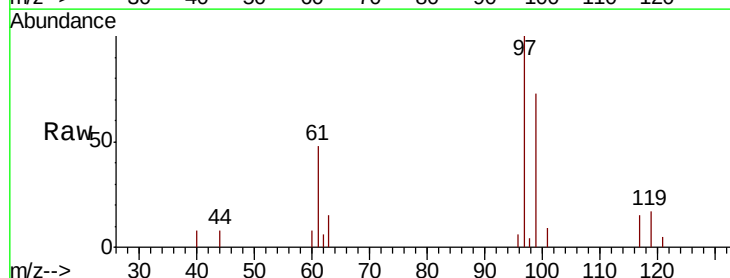
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

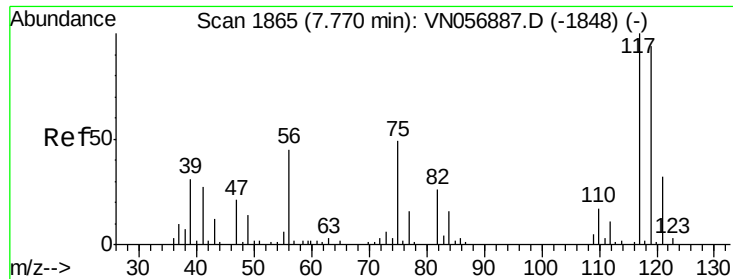
Tot Ion: 77 Resp: 5696
 Ion Ratio Lower Upper
 77 100
 97 19.6 19.3 28.9



#32
 1,1,1-Trichloroethane
 Concen: 2.497 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. 0.01 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Tgt Ion: 97 Resp: 11689
 Ion Ratio Lower Upper
 97 100
 99 67.7 52.3 78.5
 61 43.8 34.4 51.6

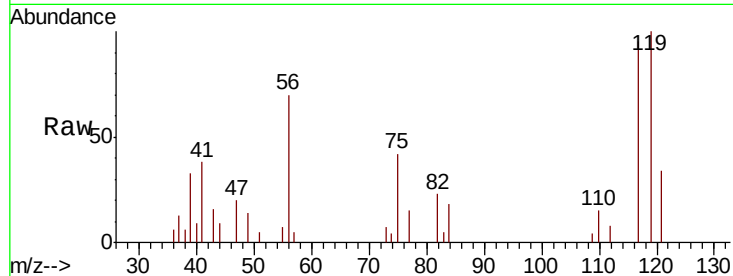




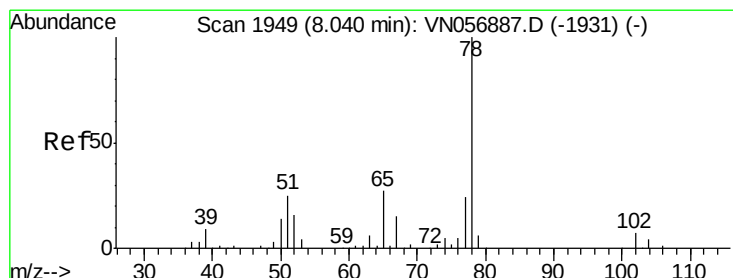
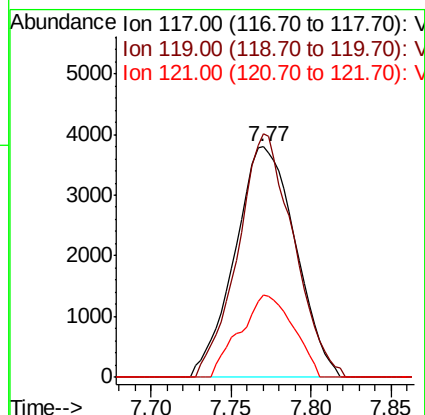
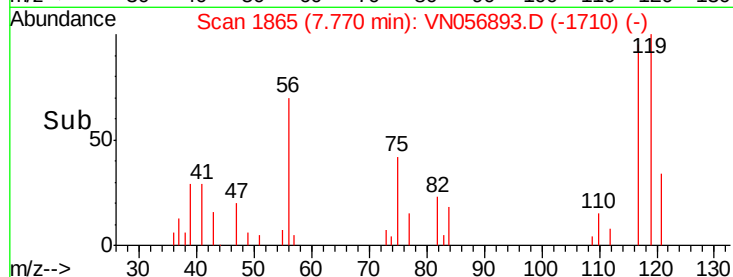
#33
Carbon Tetrachloride
Concen: 2.421 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion:117 Resp: 9894
Ion Ratio Lower Upper
117 100
119 105.8 75.1 112.7
121 35.6 25.8 38.8

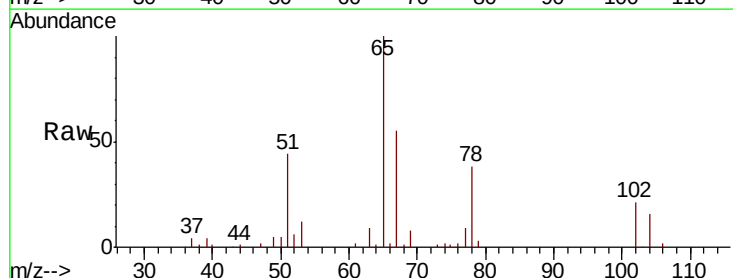


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 119.00 (118.70 to 119.70): V
Ion 121.00 (120.70 to 121.70): V

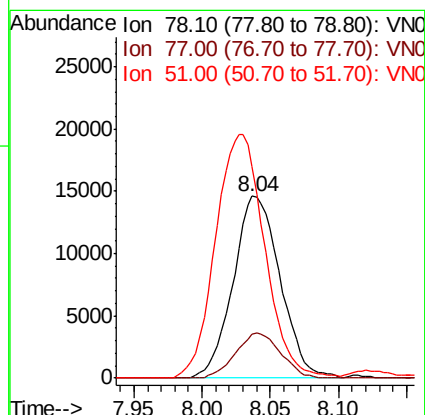
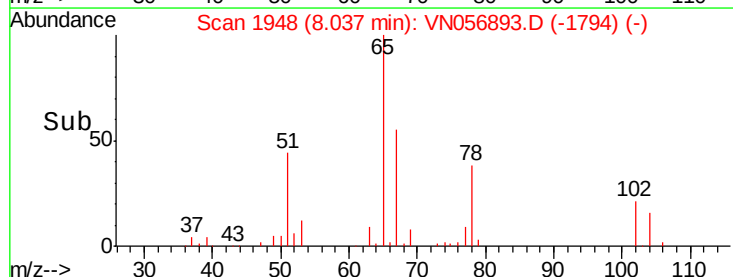


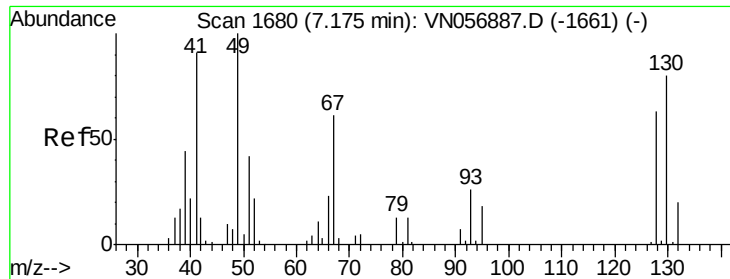
#34
Benzene
Concen: 2.602 ug/l
RT: 8.04 min Scan# 1948
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion: 78 Resp: 34935
Ion Ratio Lower Upper
78 100
77 23.9 19.4 29.2
51 114.9 20.4 30.6#



Abundance Ion 78.10 (77.80 to 78.80): V
Ion 77.00 (76.70 to 77.70): V
Ion 51.00 (50.70 to 51.70): V

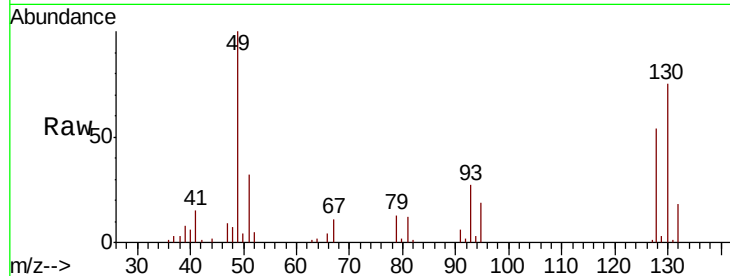




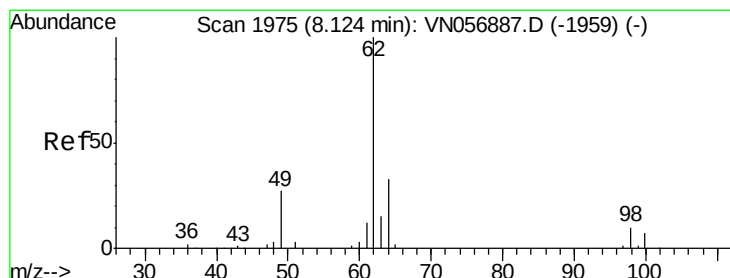
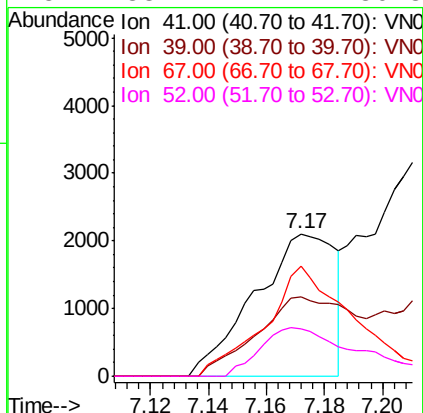
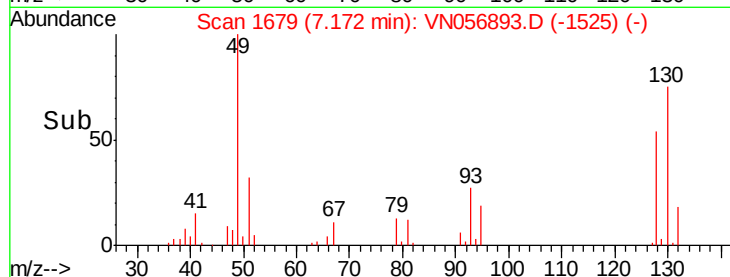
#35
Methacrylonitrile
Concen: 2.370 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 41 Resp: 4052
Ion Ratio Lower Upper
41 100
39 55.8 24.4 73.2
67 77.5 33.4 100.1
52 33.2 12.1 36.3

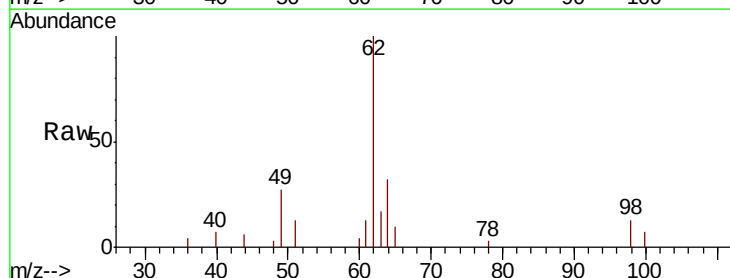


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO

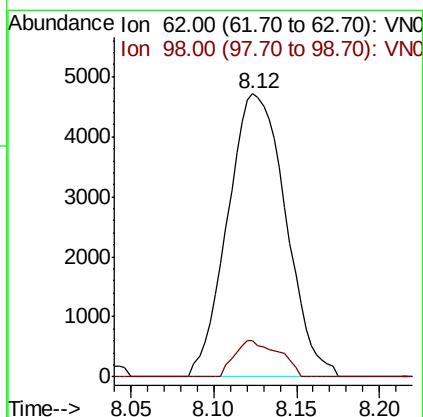
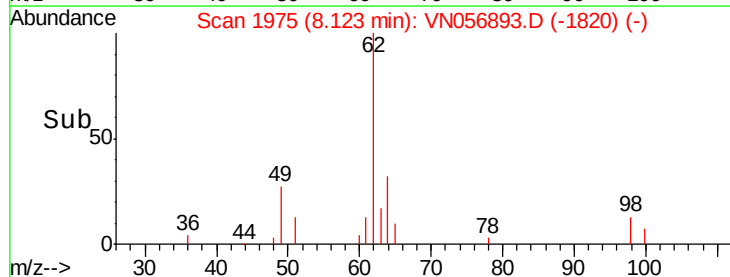


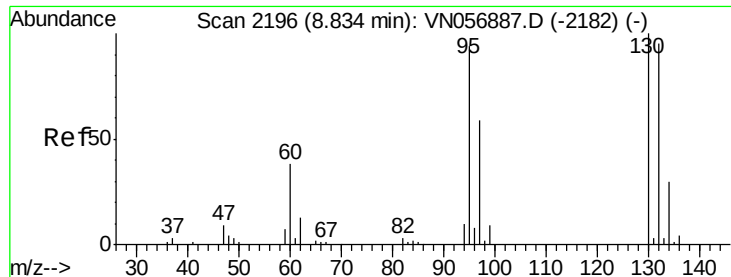
#36
1,2-Dichloroethane
Concen: 2.749 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion: 62 Resp: 11473
Ion Ratio Lower Upper
62 100
98 9.8 7.7 11.5



Abundance Ion 62.00 (61.70 to 62.70): VNO
Ion 98.00 (97.70 to 98.70): VNO

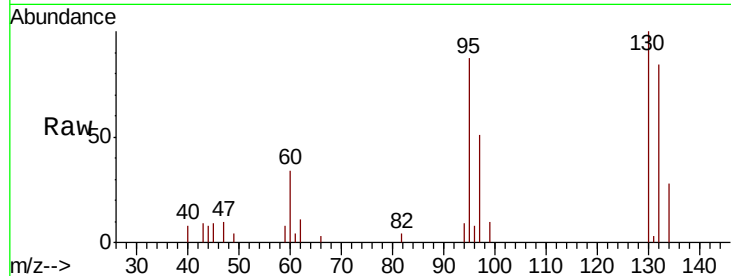




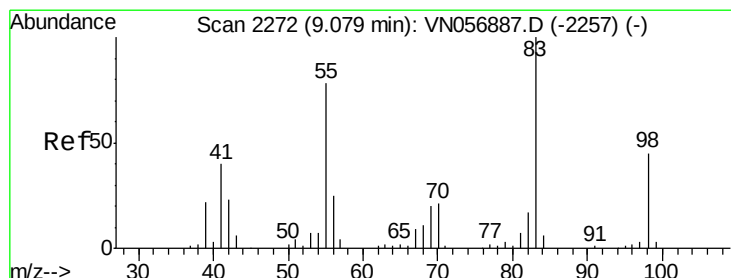
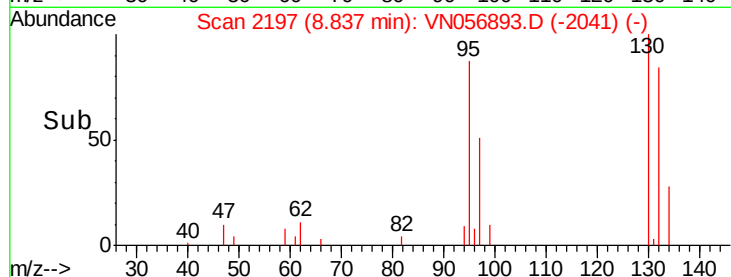
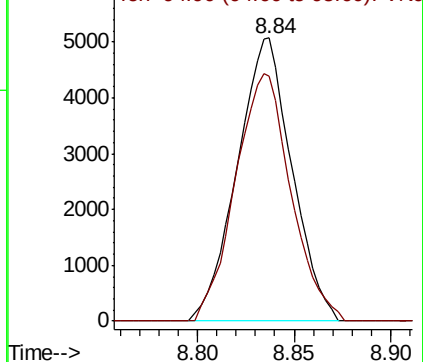
#37
 Trichloroethene
 Concen: 2.773 ug/l
 RT: 8.84 min Scan# 2197
 Delta R.T. 0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion:130 Resp: 9979
 Ion Ratio Lower Upper
 130 100
 95 86.6 74.9 112.3

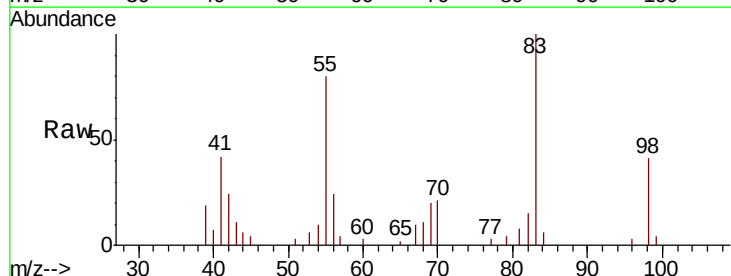


Abundance Ion 129.90 (129.60 to 130.60): V
 Ion 94.90 (94.60 to 95.60): VN

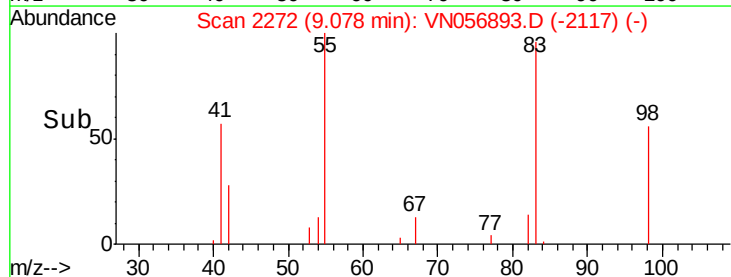
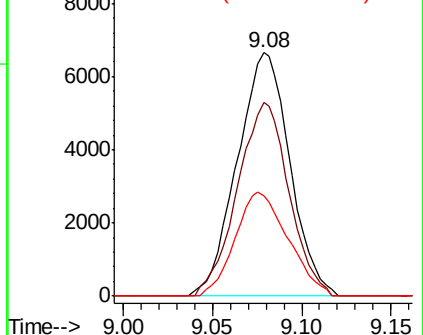


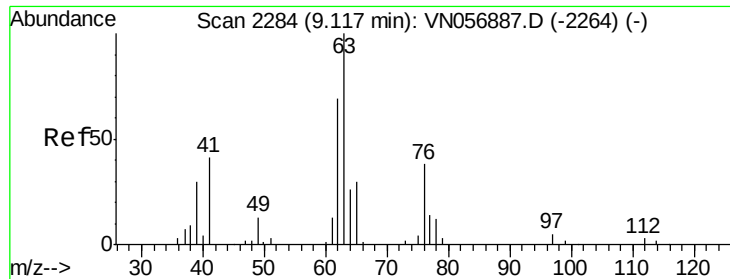
#38
 Methylcyclohexane
 Concen: 2.532 ug/l
 RT: 9.08 min Scan# 2272
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Tgt Ion: 83 Resp: 13722
 Ion Ratio Lower Upper
 83 100
 55 77.6 38.4 115.1
 98 42.7 22.7 68.0



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





#39

1,2-Dichloropropane

Concen: 2.742 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

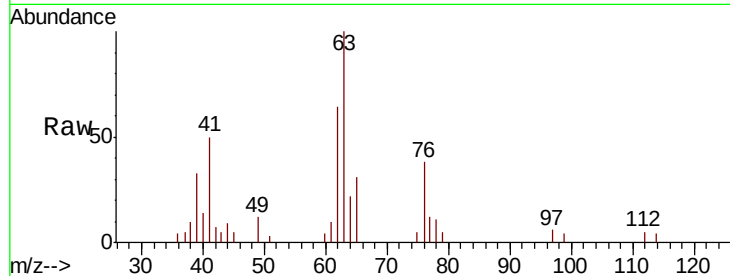
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 63 Resp: 9825

Ion Ratio Lower Upper

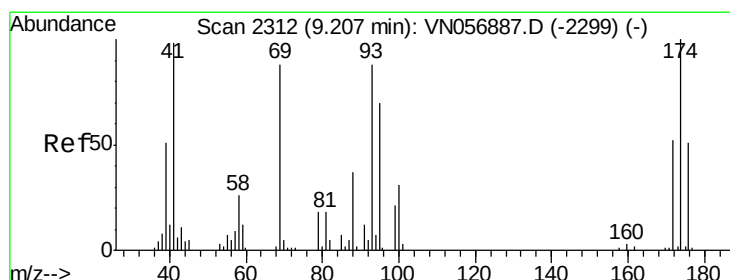
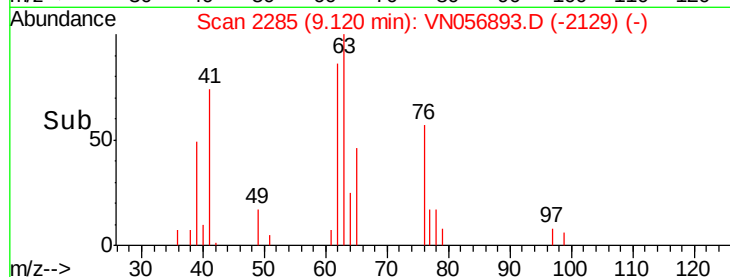
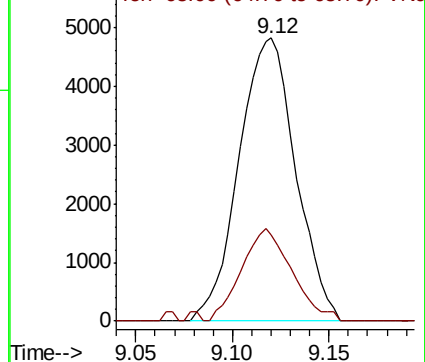
63 100

65 30.7 24.6 36.8



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0



#40

Dibromomethane

Concen: 2.698 ug/l

RT: 9.21 min Scan# 2312

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

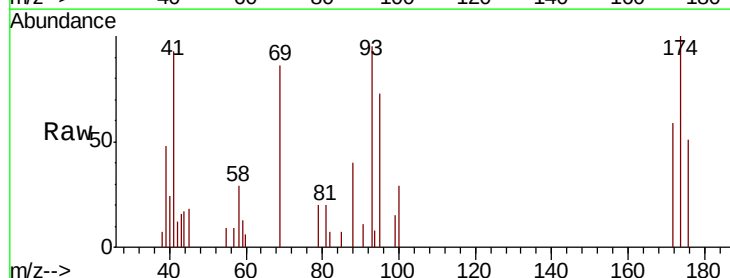
Tgt Ion: 93 Resp: 5931

Ion Ratio Lower Upper

93 100

95 81.8 0.0 165.8

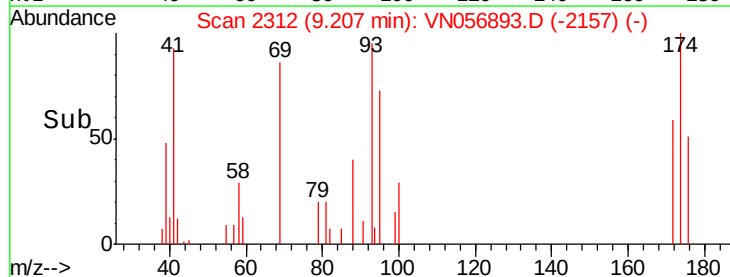
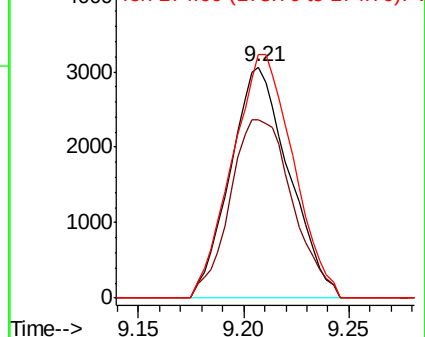
174 109.3 0.0 232.4

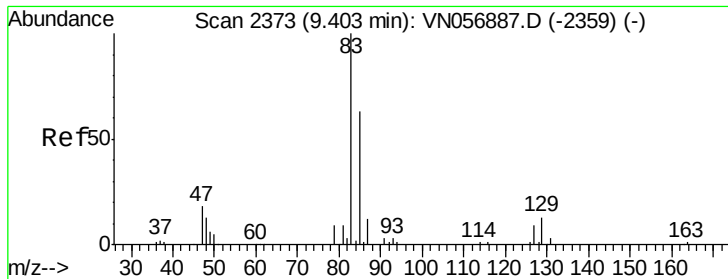


Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V





#41

Bromodichloromethane

Concen: 2.446 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

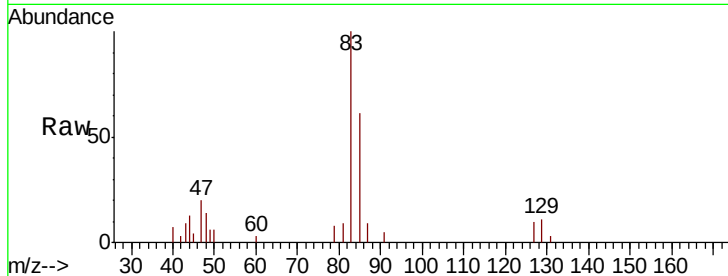
Tot Ion: 83 Resp: 10334

Ion Ratio Lower Upper

83 100

85 61.1 50.6 75.8

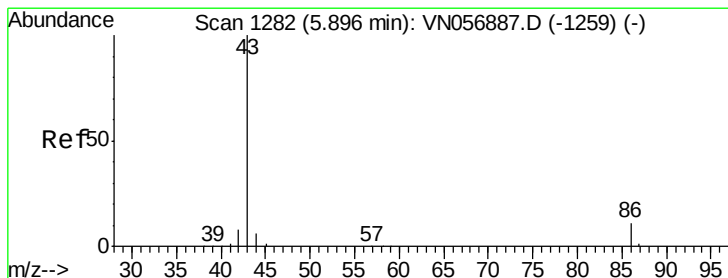
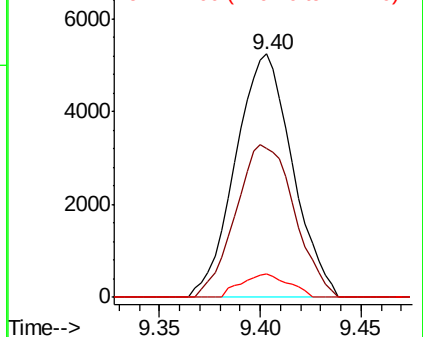
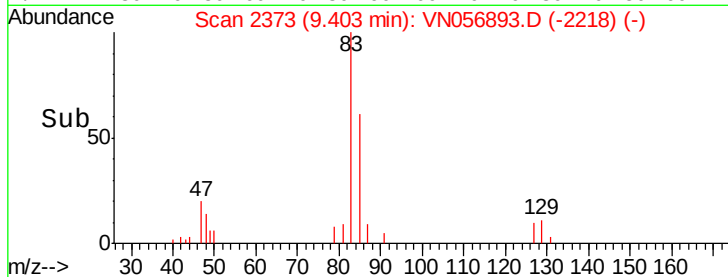
127 9.6 7.2 10.8



Abundance Ion 83.00 (82.70 to 83.70): VN056887.D (-2359) (-)

Ion 85.00 (84.70 to 85.70): VN056887.D (-2359) (-)

Ion 127.00 (126.70 to 127.70): VN056887.D (-2359) (-)



#42

Vinyl Acetate

Concen: 11.278 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.01 min

Lab File: VN056893.D

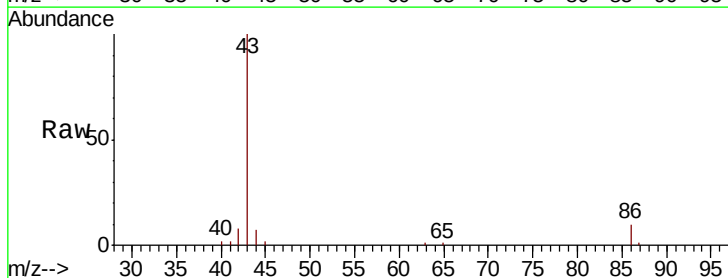
Acq: 23 Jul 2019 23:06

Tgt Ion: 43 Resp: 85969

Ion Ratio Lower Upper

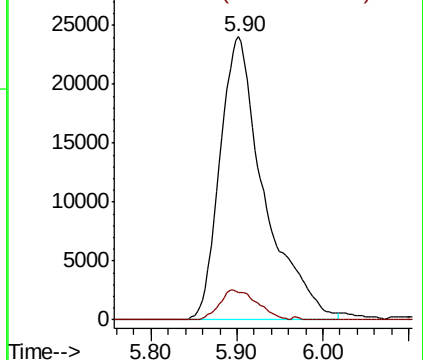
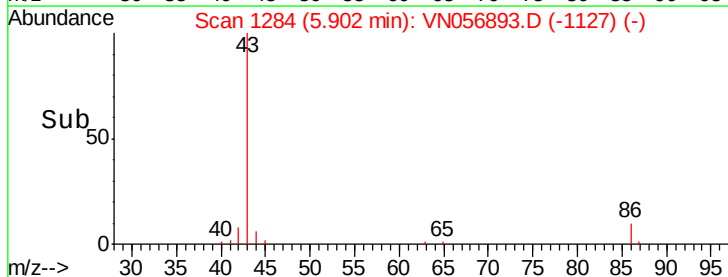
43 100

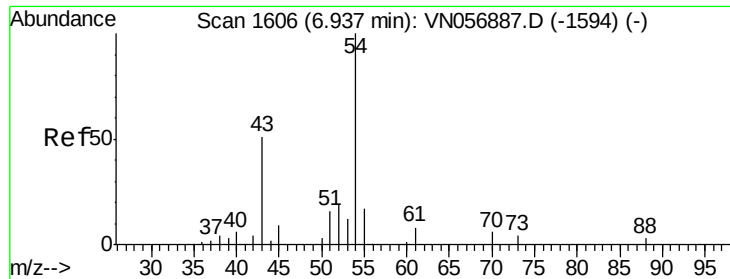
86 4.5 7.4 11.2#



Abundance Ion 43.00 (42.70 to 43.70): VN056887.D (-1259) (-)

Ion 86.00 (85.70 to 86.70): VN056887.D (-1259) (-)

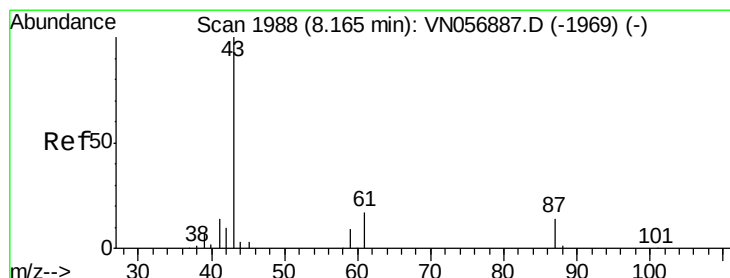
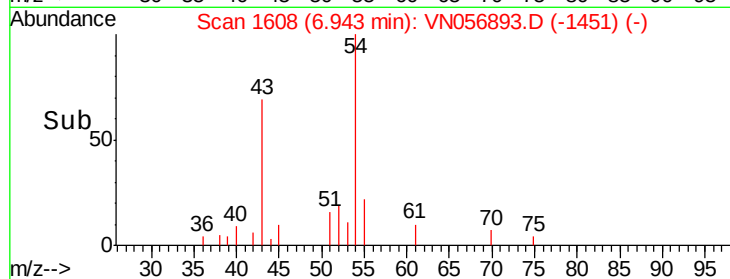
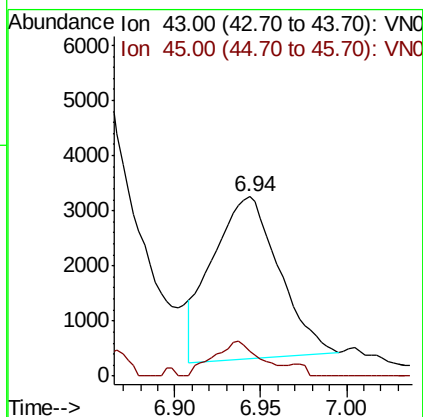
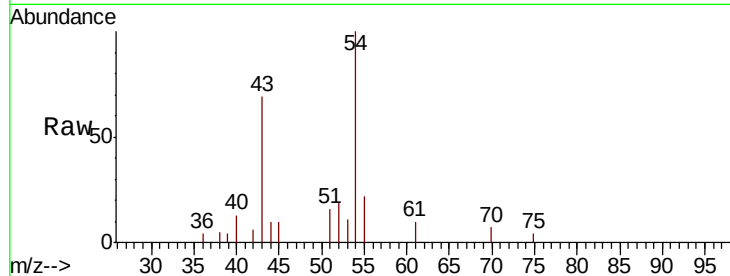




#43
Ethyl Acetate
Concen: 2.256 ug/l
RT: 6.94 min Scan# 1608
Delta R.T. 0.01 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

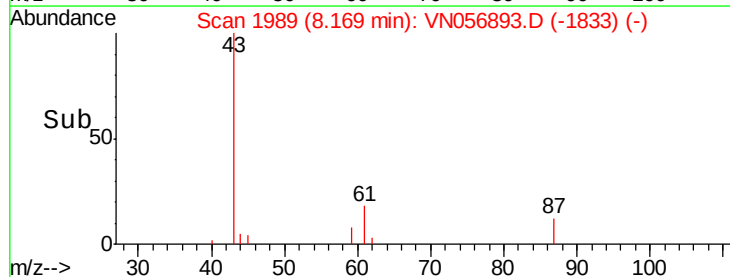
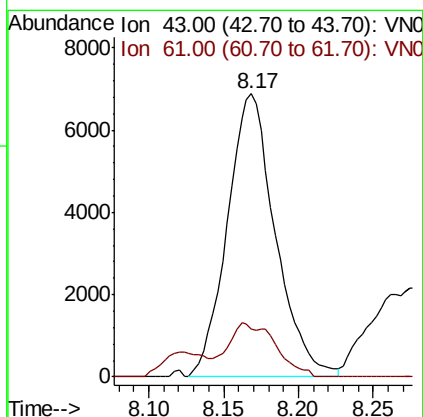
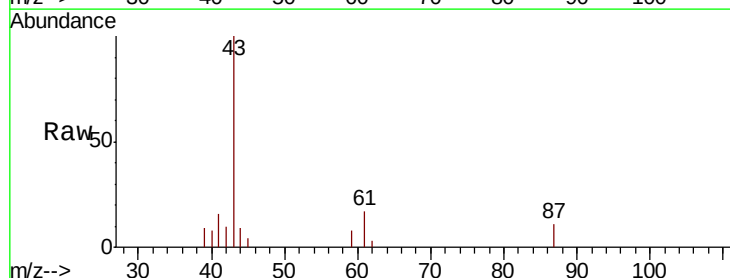
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

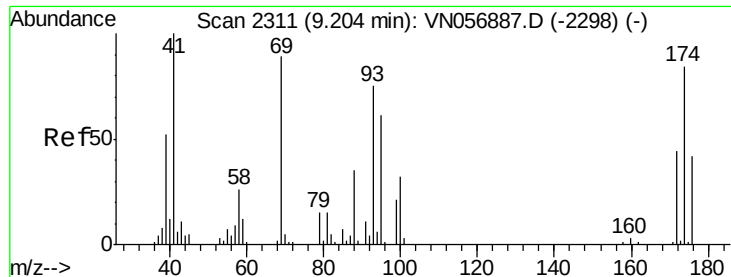
Tot Ion: 43 Resp: 7916
Ion Ratio Lower Upper
43 100
45 15.2 10.2 15.2#



#44
Isopropyl Acetate
Concen: 2.630 ug/l
RT: 8.17 min Scan# 1989
Delta R.T. 0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion: 43 Resp: 15386
Ion Ratio Lower Upper
43 100
61 6.0 23.0 34.4#

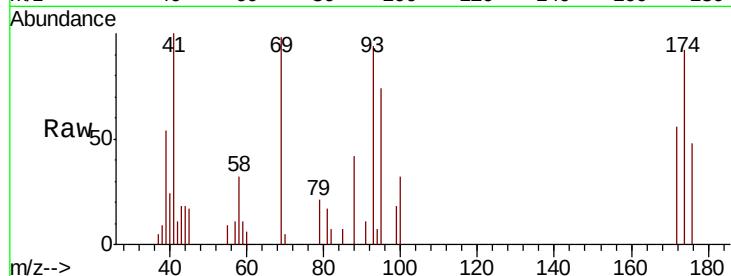




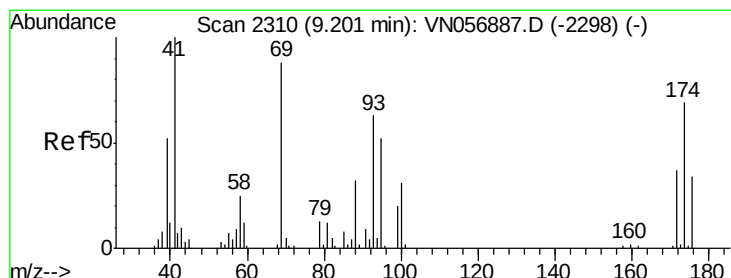
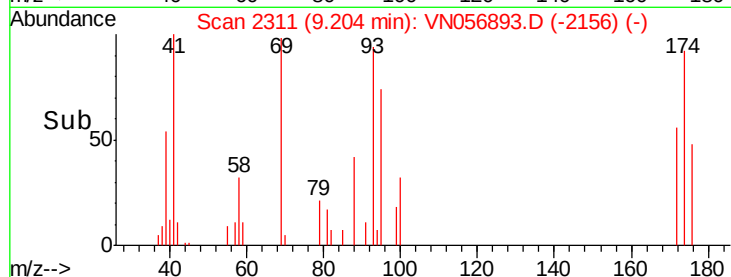
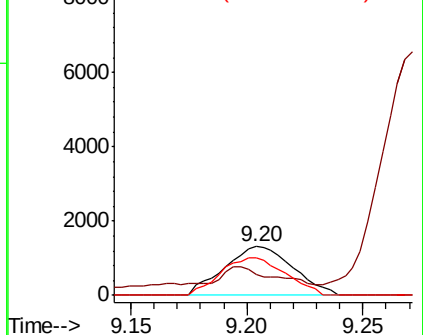
#45
 1,4-Dioxane
 Concen: 48.452 ug/l
 RT: 9.20 min Scan# 2311
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion: 88 Resp: 2698
 Ion Ratio Lower Upper
 88 100
 43 25.0 23.4 35.0
 58 73.1 58.5 87.7

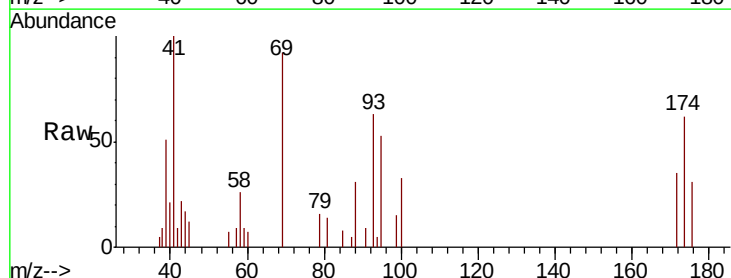


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

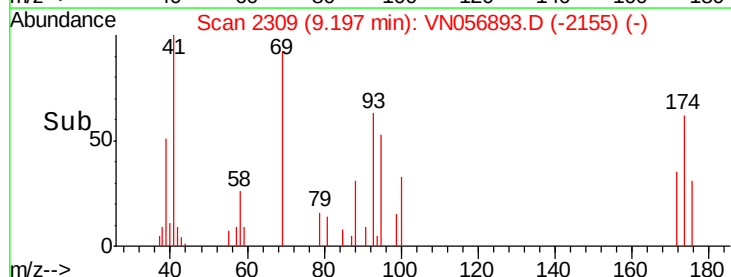
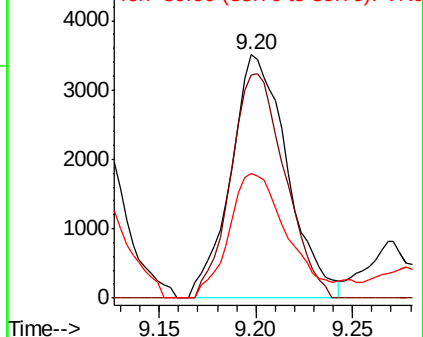


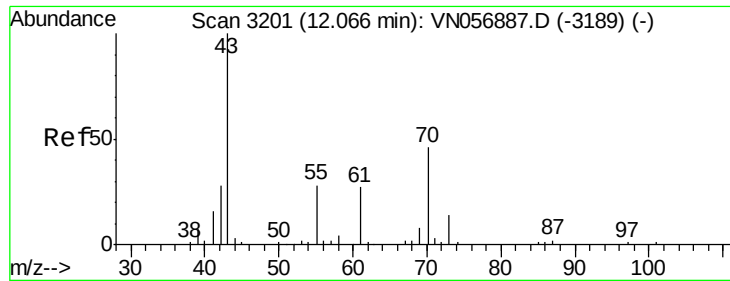
#46
 Methyl methacrylate
 Concen: 2.438 ug/l
 RT: 9.20 min Scan# 2309
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Tgt Ion: 41 Resp: 7115
 Ion Ratio Lower Upper
 41 100
 69 91.7 44.0 132.0
 39 51.0 25.8 77.4



Abundance Ion 41.00 (40.70 to 41.70): VN0
 Ion 69.00 (68.70 to 69.70): VN0
 Ion 39.00 (38.70 to 39.70): VN0





#47

n-amvl Acetate

Concen: 2.015 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.01 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

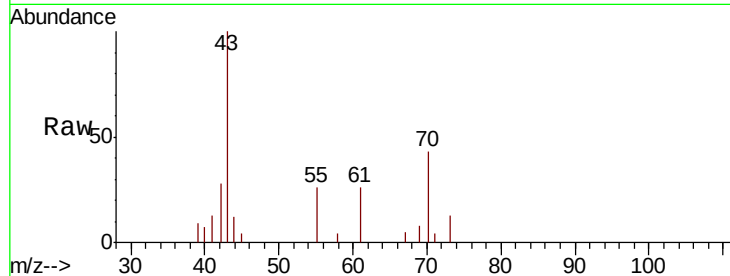
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 43 Resp: 9433

Ion Ratio Lower Upper

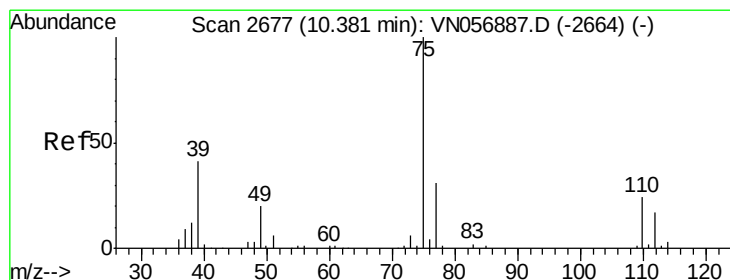
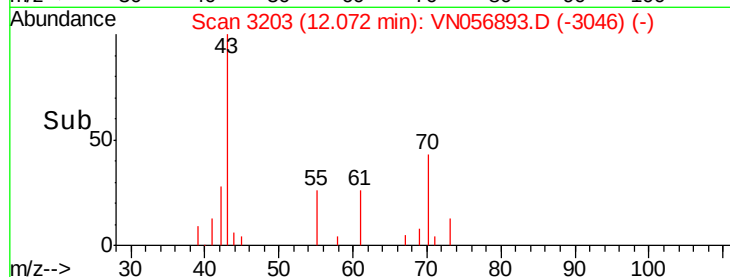
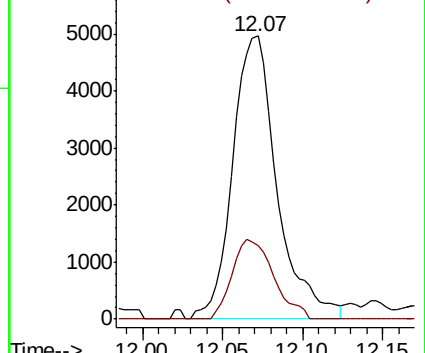
43 100

55 26.2 21.3 31.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#48

t-1,3-Dichloropropene

Concen: 2.220 ug/l

RT: 10.38 min Scan# 2678

Delta R.T. 0.00 min

Lab File: VN056893.D

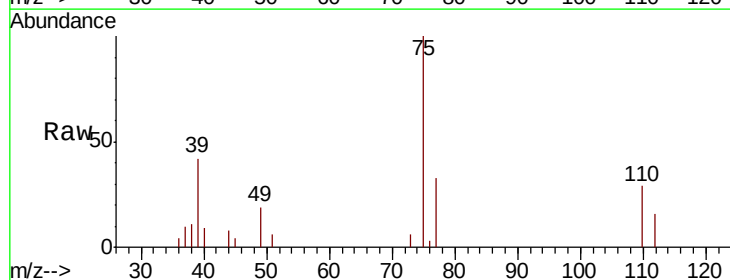
Acq: 23 Jul 2019 23:06

Tgt Ion: 75 Resp: 9757

Ion Ratio Lower Upper

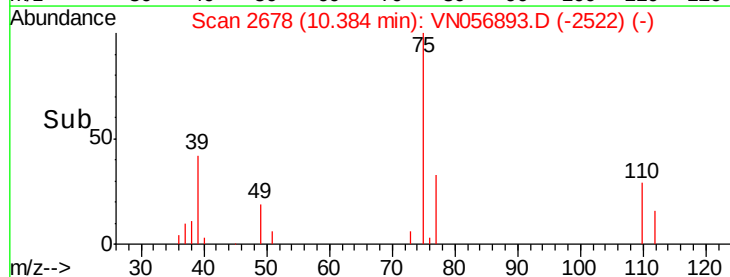
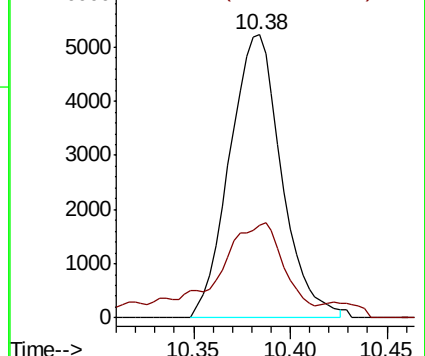
75 100

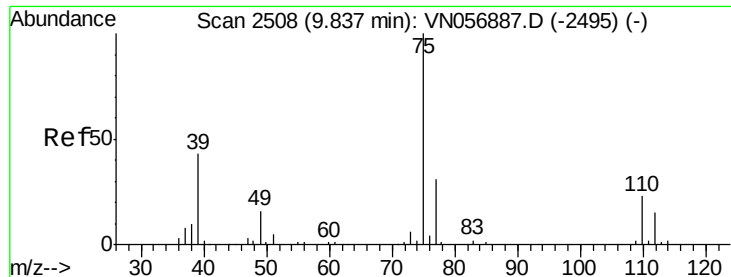
77 27.5 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0



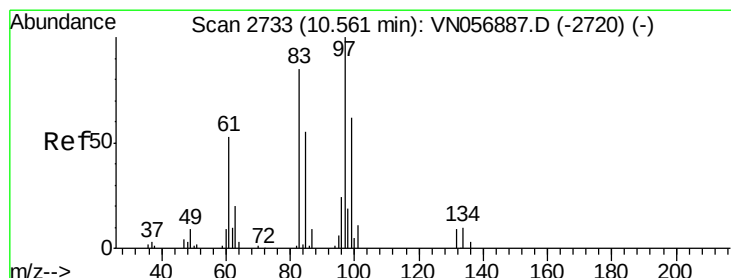
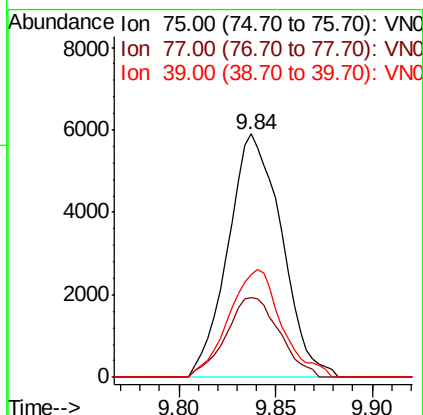
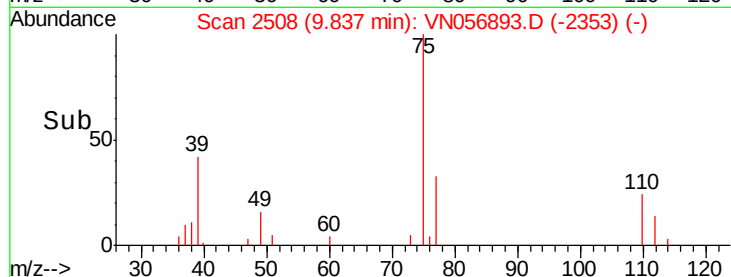
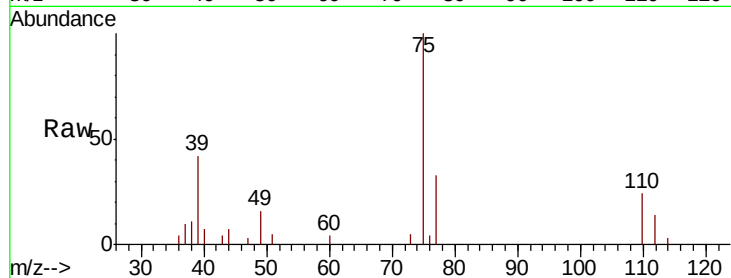


#49

cis-1,3-Dichloropropene
Concen: 2.220 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

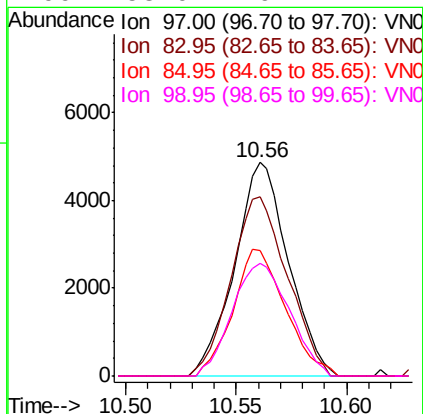
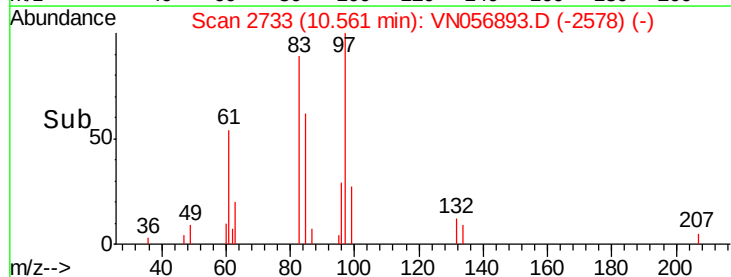
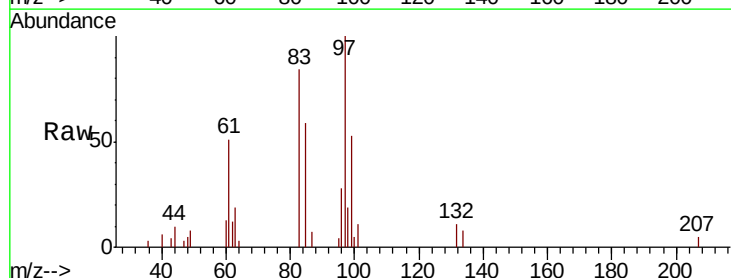
Tot Ion: 75 Resp: 11372
Ion Ratio Lower Upper
75 100
77 33.0 24.4 36.6
39 42.4 34.2 51.4

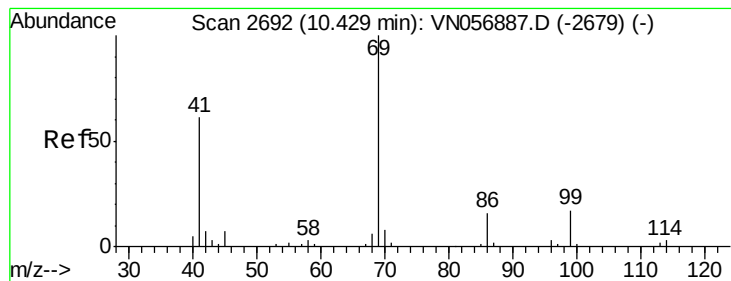


#50

1,1,2-Trichloroethane
Concen: 2.613 ug/l
RT: 10.56 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion: 97 Resp: 8247
Ion Ratio Lower Upper
97 100
83 84.2 68.4 102.6
85 58.6 44.3 66.5
99 53.0 49.4 74.2





#51

Ethyl methacrylate

Concen: 2.191 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

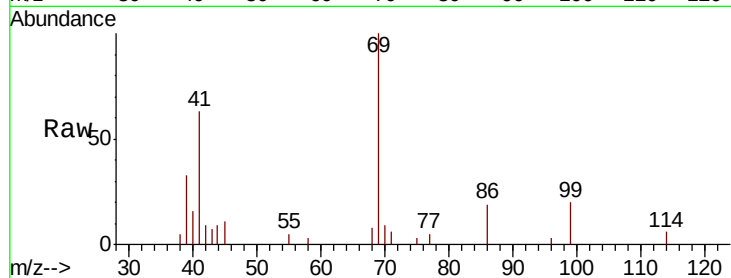
Tot Ion: 69 Resp: 10003

Ion Ratio Lower Upper

69 100

41 63.4 30.4 91.3

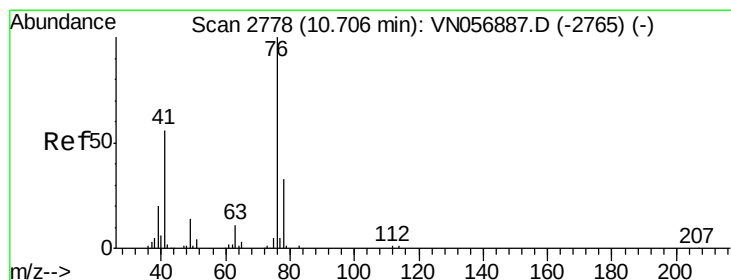
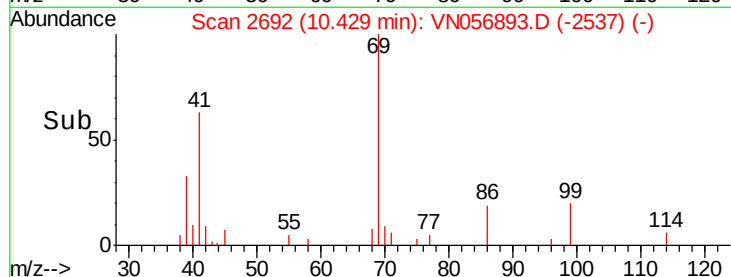
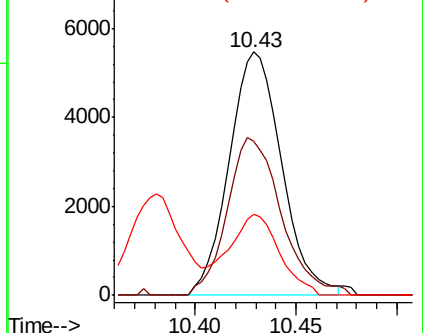
39 33.4 14.2 42.6



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#52

1,3-Dichloropropane

Concen: 2.567 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN056893.D

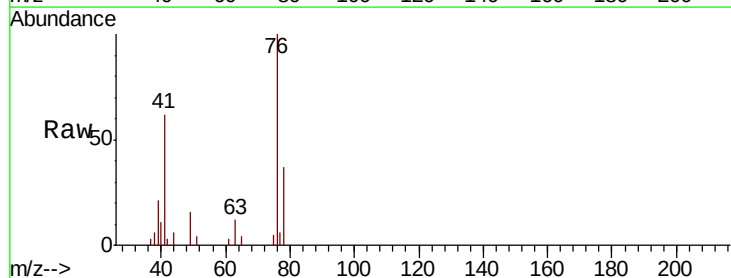
Acq: 23 Jul 2019 23:06

Tgt Ion: 76 Resp: 13672

Ion Ratio Lower Upper

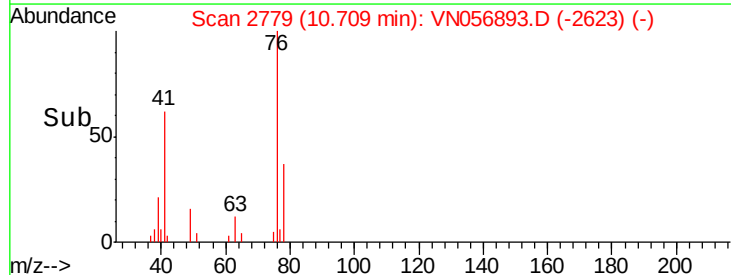
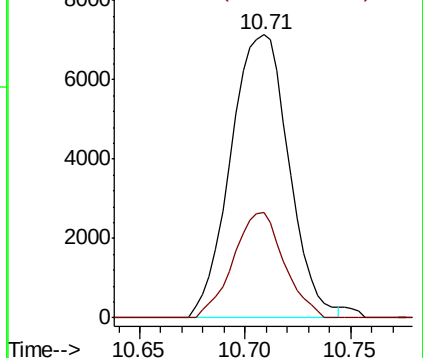
76 100

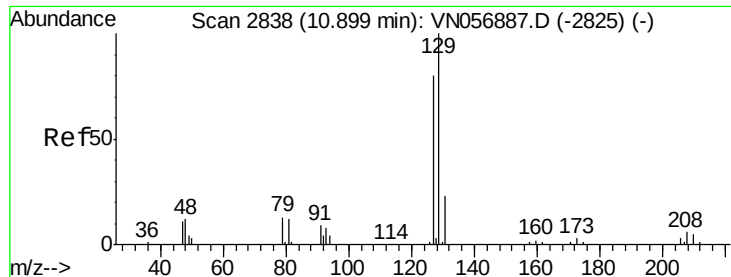
78 32.5 0.0 64.2



Abundance Ion 76.00 (75.70 to 76.70): VN0

Ion 78.00 (77.70 to 78.70): VN0

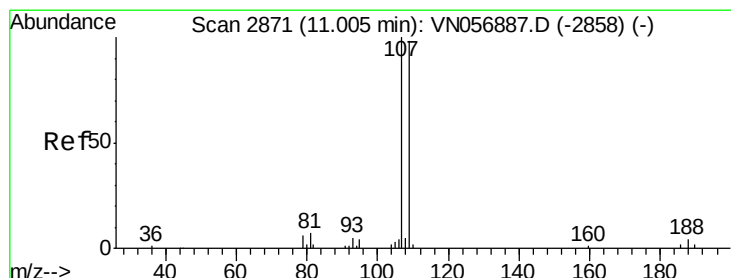
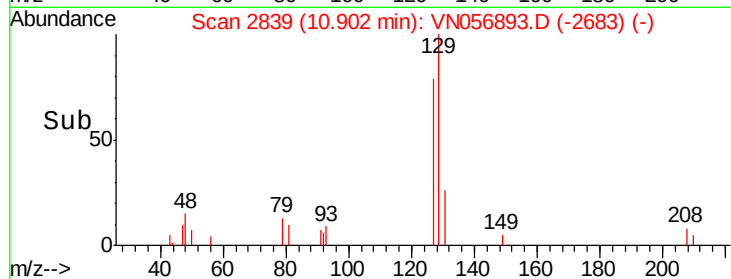
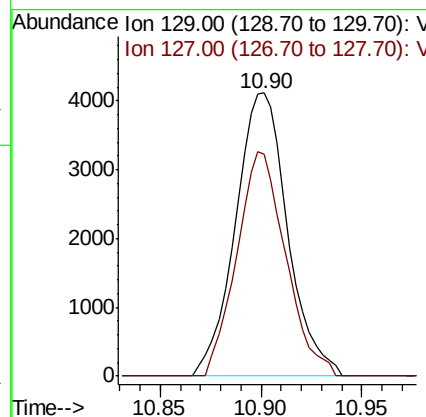
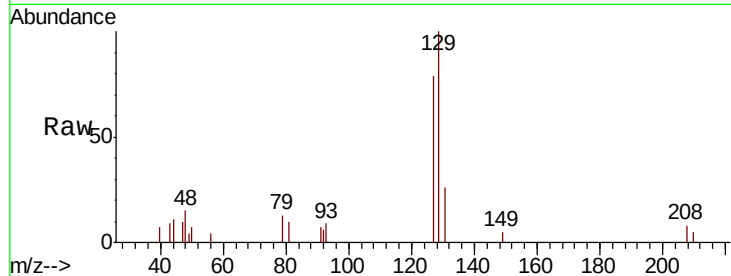




#53
 Dibromochloromethane
 Concen: 2.271 ug/l
 RT: 10.90 min Scan# 2839
 Delta R.T. 0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

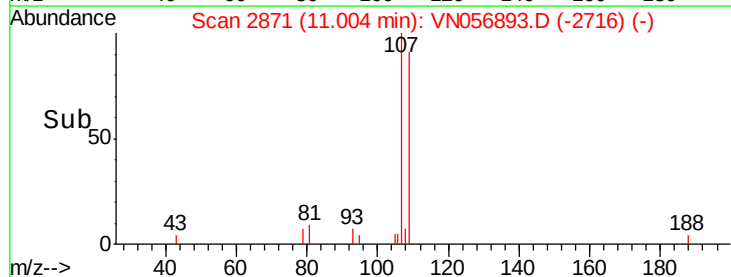
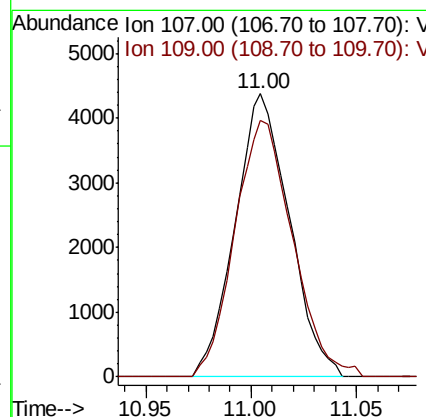
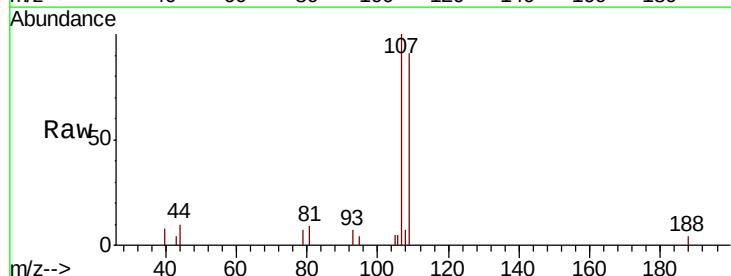
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

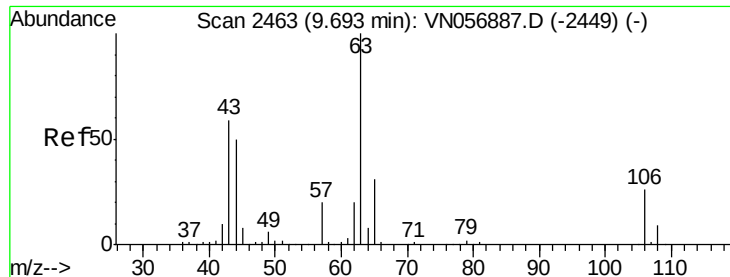
Tot Ion:129 Resp: 7449
 Ion Ratio Lower Upper
 129 100
 127 74.3 38.8 116.4



#54
 1,2-Dibromoethane
 Concen: 2.422 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Tgt Ion:107 Resp: 7798
 Ion Ratio Lower Upper
 107 100
 109 96.4 76.2 114.2

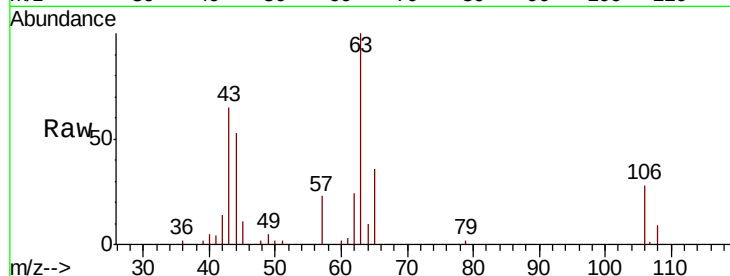




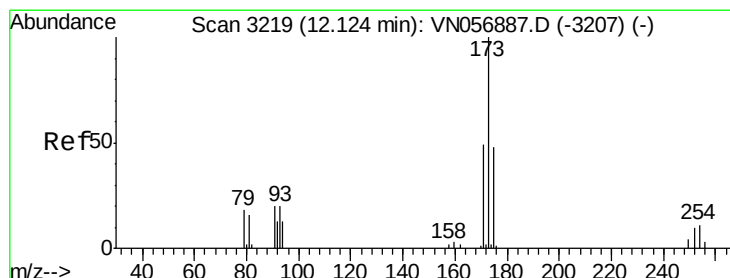
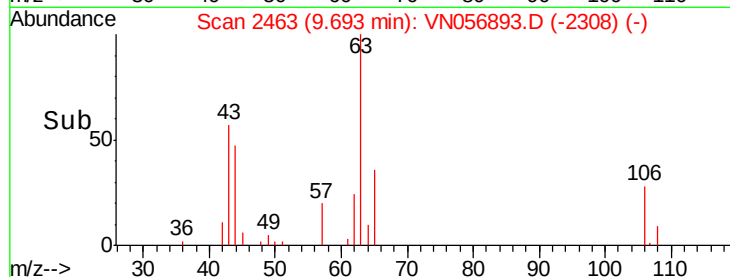
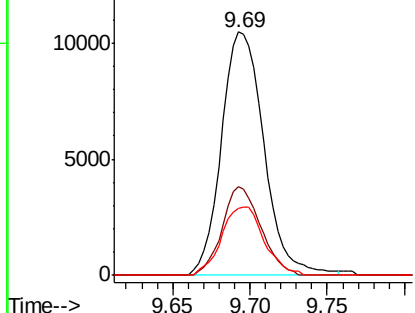
#55
2-Chloroethyl vinyl ether
Concen: 10.107 ug/l
RT: 9.69 min Scan# 2463
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 63 Resp: 19983
Ion Ratio Lower Upper
63 100
65 32.8 25.1 37.7
106 28.0 21.5 32.3

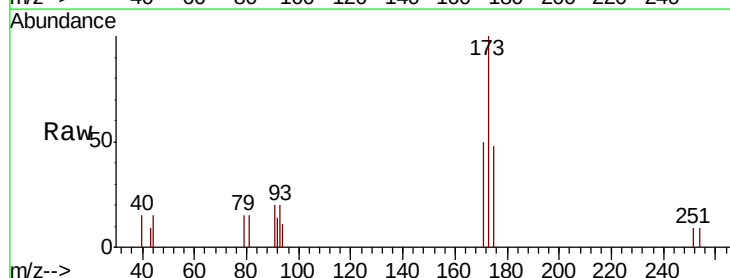


Abundance Ion 63.00 (62.70 to 63.70): VN056893.D (-2308) (-)
Ion 65.00 (64.70 to 65.70): VN056893.D (-2308) (-)
Ion 106.00 (105.70 to 106.70): VN056893.D (-2308) (-)

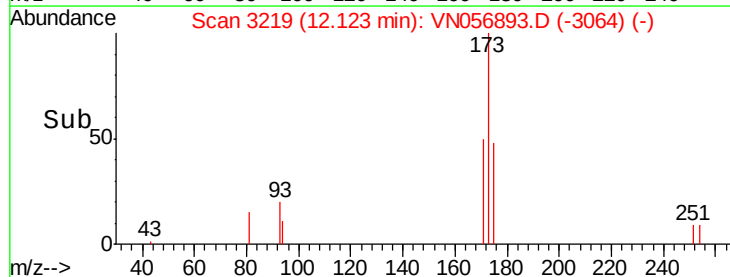
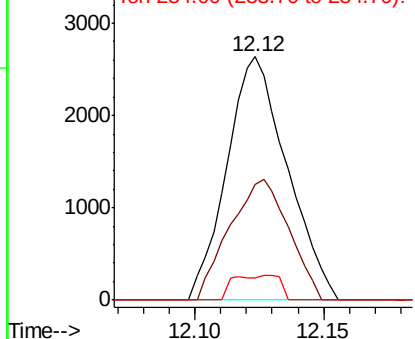


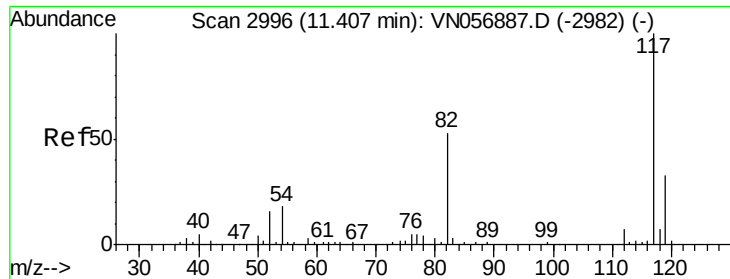
#56
Bromoform
Concen: 1.893 ug/l
RT: 12.12 min Scan# 3219
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion: 173 Resp: 4297
Ion Ratio Lower Upper
173 100
175 48.8 38.8 58.2
254 3.3 8.1 12.1#



Abundance Ion 173.00 (172.70 to 173.70): VN056893.D (-3064) (-)
Ion 175.00 (174.70 to 175.70): VN056893.D (-3064) (-)
Ion 254.00 (253.70 to 254.70): VN056893.D (-3064) (-)

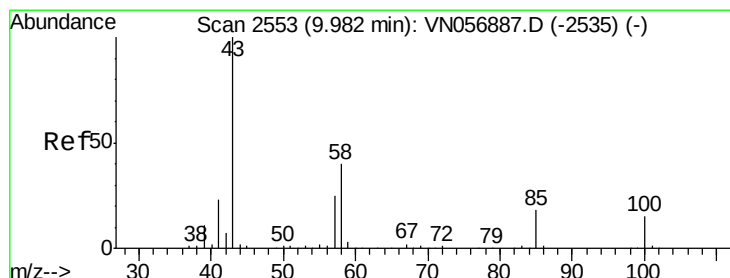
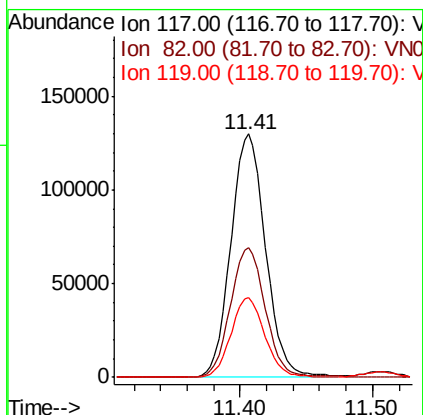
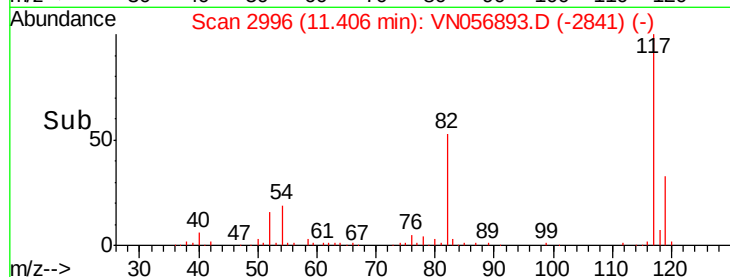
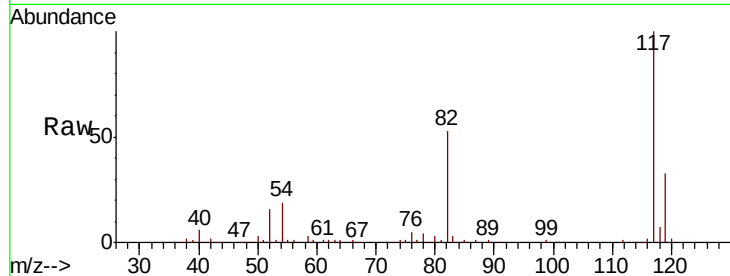




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

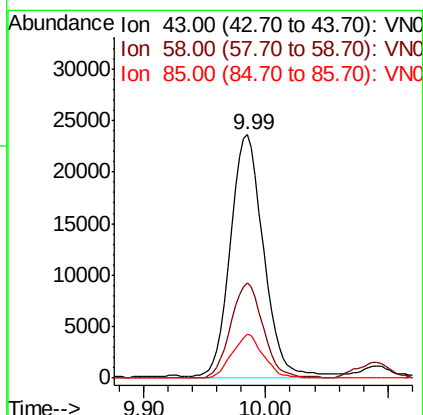
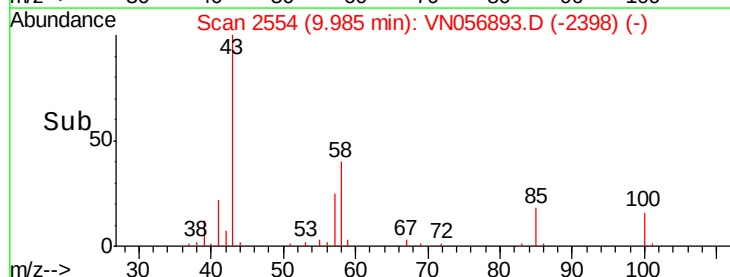
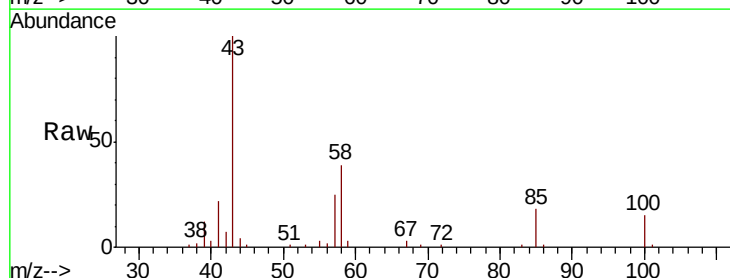
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

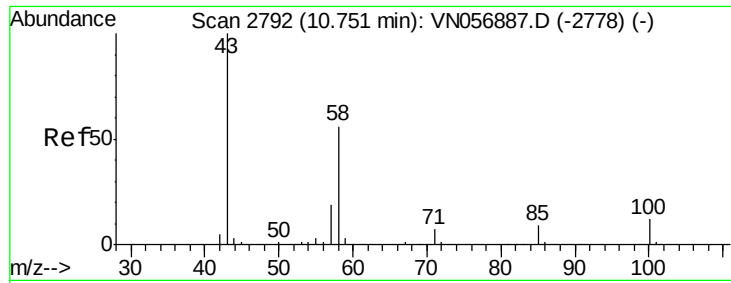
Tot Ion:117 Resp: 236332
Ion Ratio Lower Upper
117 100
82 53.4 43.0 64.4
119 32.0 26.2 39.2



#58
4-Methyl-2-Pentanone
Concen: 14.183 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. 0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion: 43 Resp: 44980
Ion Ratio Lower Upper
43 100
58 37.7 31.7 47.5
85 16.6 14.5 21.7

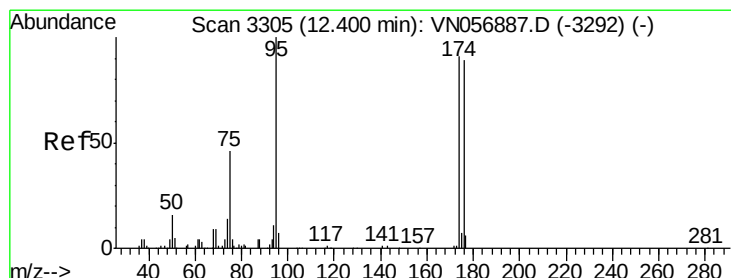
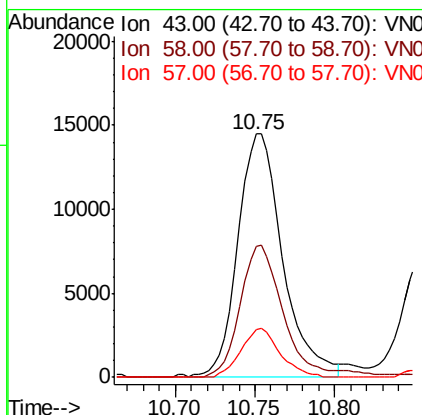
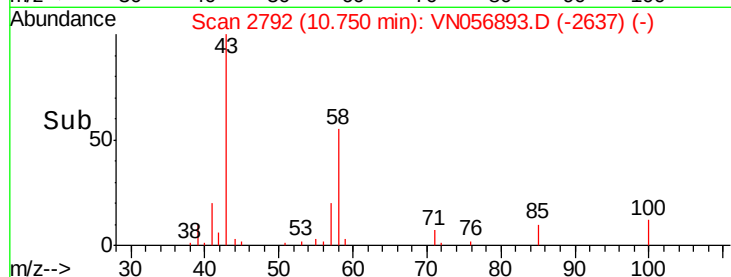
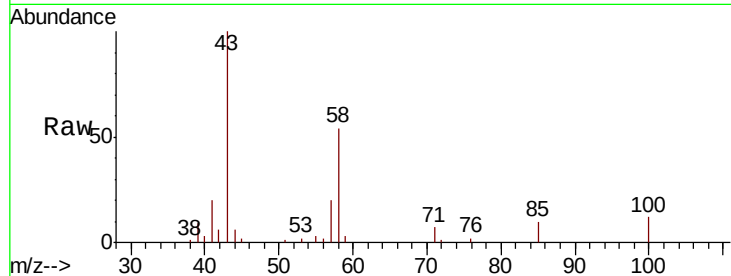




#59
2-Hexanone
Concen: 12.892 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

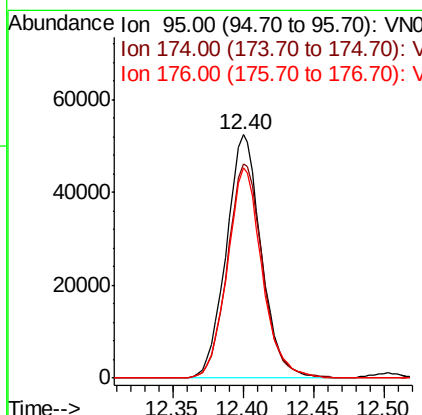
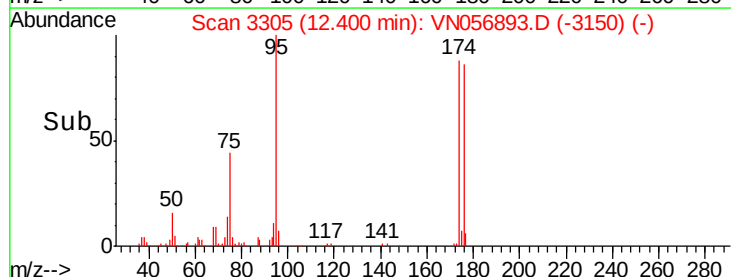
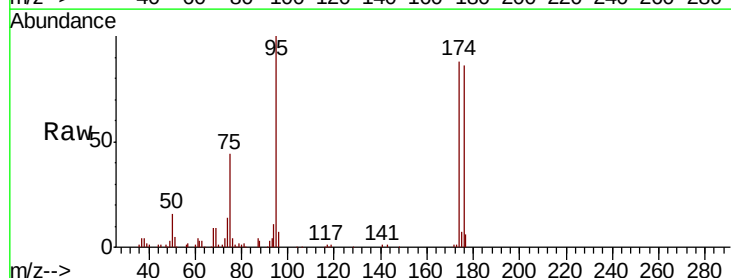
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

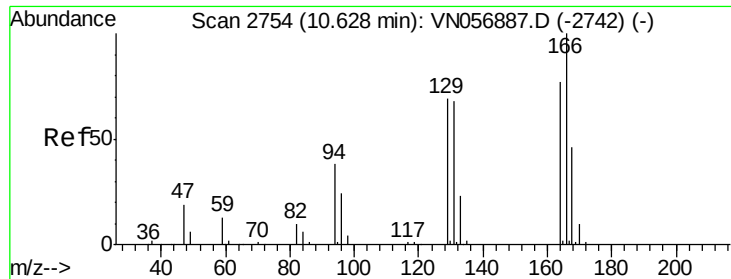
Tot Ion: 43 Resp: 27862
Ion Ratio Lower Upper
43 100
58 51.3 45.0 67.4
57 17.5 15.4 23.0



#60
4-Bromofluorobenzene
Concen: 25.718 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion: 95 Resp: 91097
Ion Ratio Lower Upper
95 100
174 88.7 71.9 107.9
176 85.5 69.8 104.8

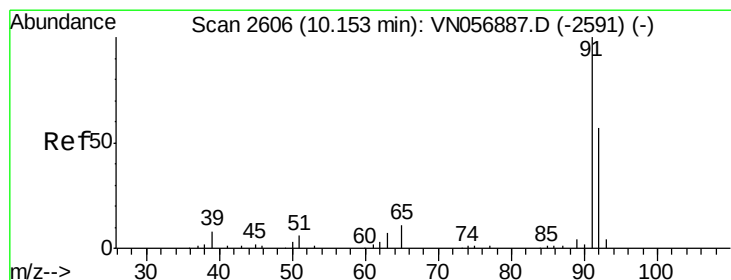
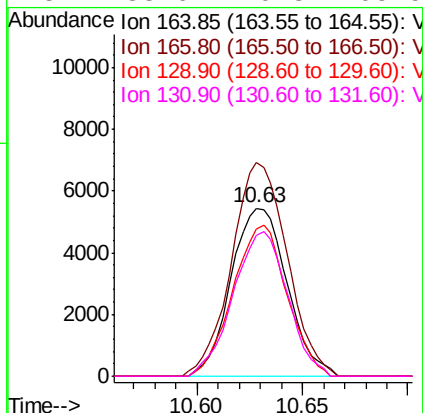
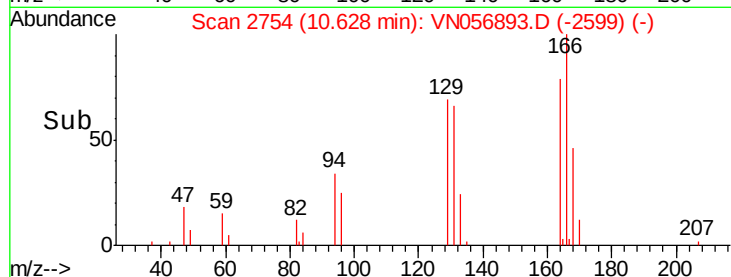
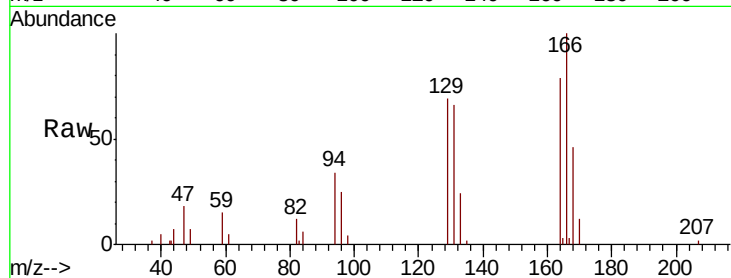




#61
Tetrachloroethene
Concen: 3.040 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

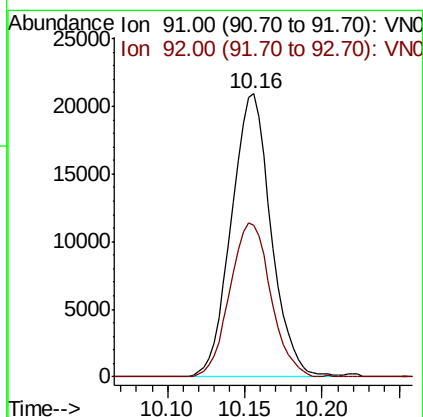
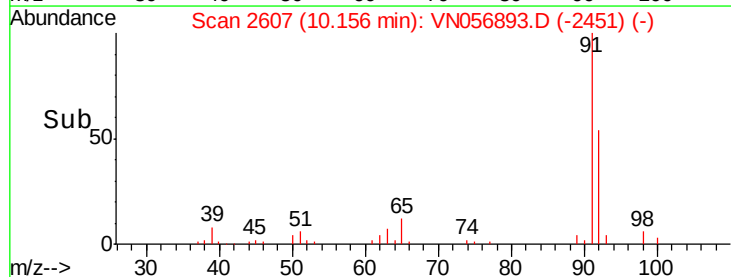
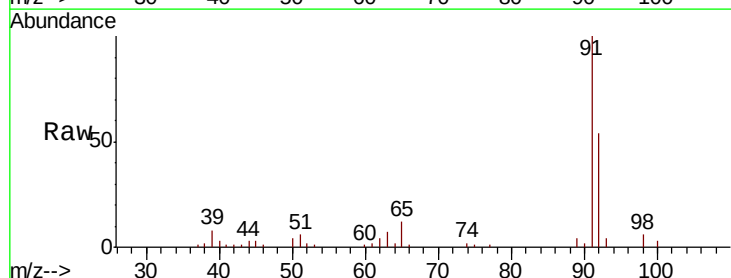
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

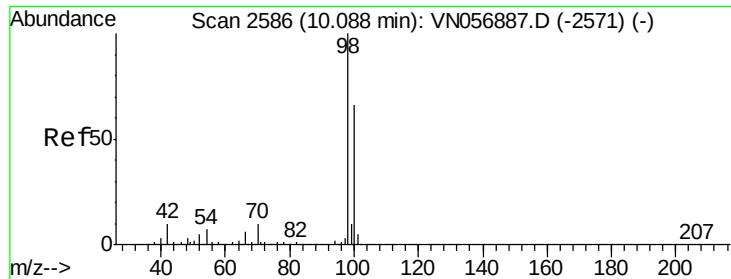
Tot Ion:164 Resp: 10070
Ion Ratio Lower Upper
164 100
166 127.1 103.9 155.9
129 87.5 72.4 108.6
131 83.6 70.3 105.5



#62
Toluene
Concen: 2.902 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. 0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion: 91 Resp: 37298
Ion Ratio Lower Upper
91 100
92 56.0 46.1 69.1





#63

Toluene-d8

Concen: 32.328 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

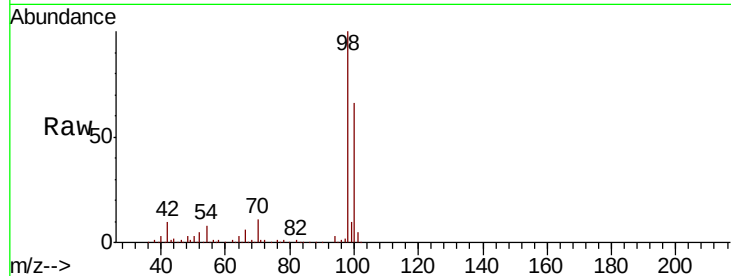
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 98 Resp: 360907

Ion Ratio Lower Upper

98 100

100 64.5 51.4 77.2



Abundance Ion 98.00 (97.70 to 98.70): VN056887.D (-2571) (-)

Ion 100.00 (99.70 to 100.70): VN056887.D (-2571) (-)

10.09

200000

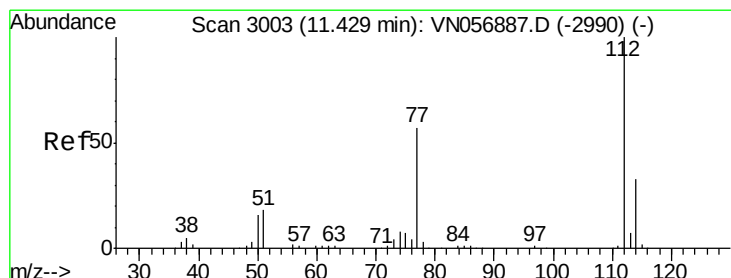
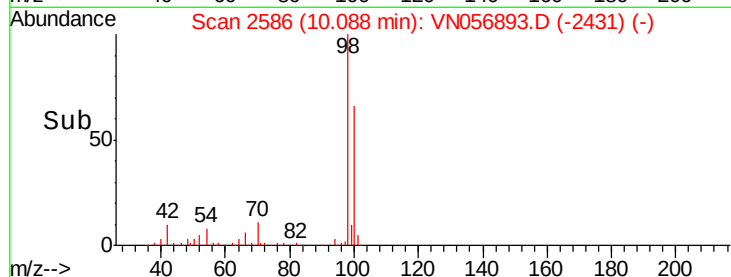
150000

100000

50000

0

Time-->



#64

Chlorobenzene

Concen: 2.750 ug/l

RT: 11.43 min Scan# 3003

Delta R.T. -0.00 min

Lab File: VN056893.D

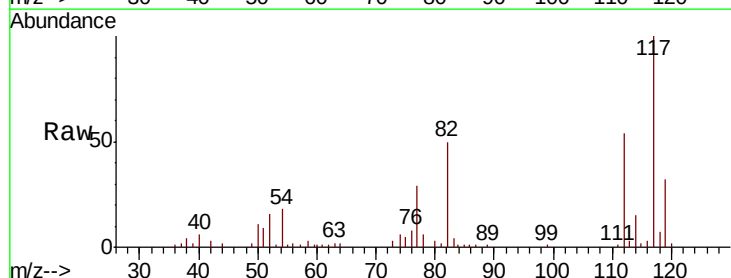
Acq: 23 Jul 2019 23:06

Tgt Ion: 112 Resp: 21295

Ion Ratio Lower Upper

112 100

114 28.6 26.7 40.1



Abundance Ion 112.00 (111.70 to 112.70): VN056887.D (-2990) (-)

Ion 114.00 (113.70 to 114.70): VN056887.D (-2990) (-)

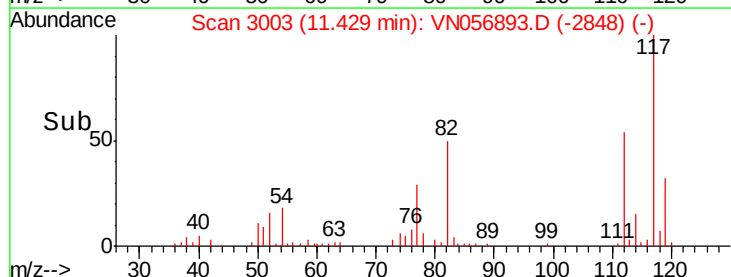
11.43

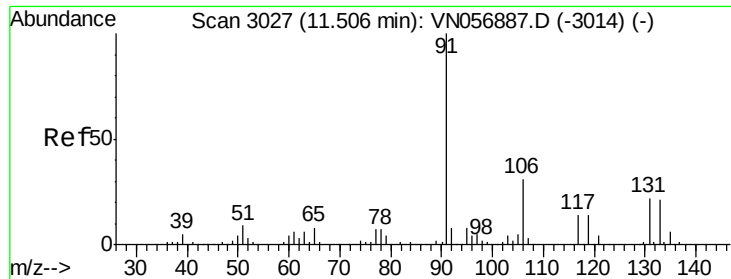
10000

5000

0

Time-->

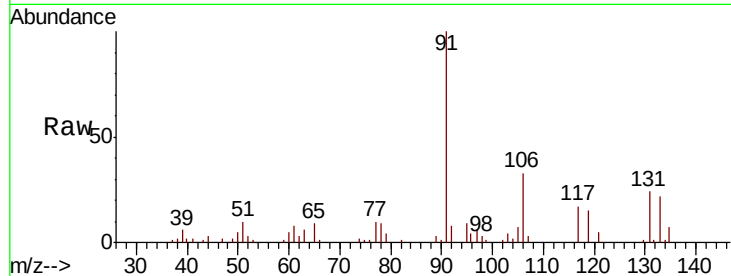




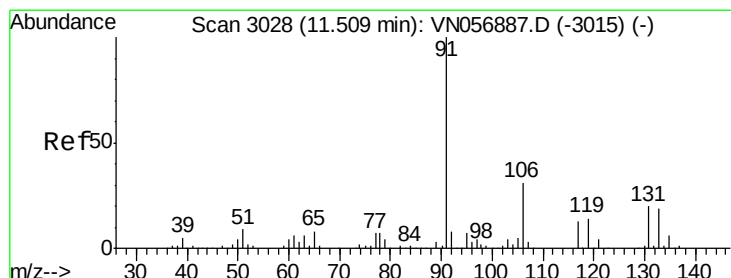
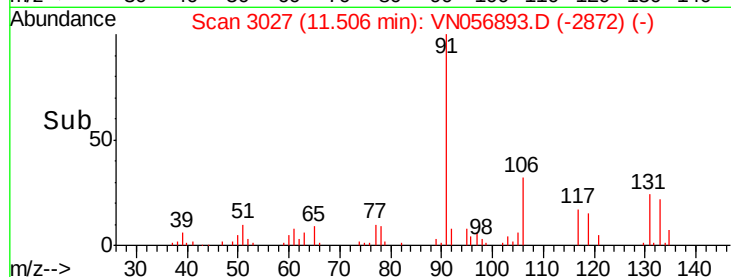
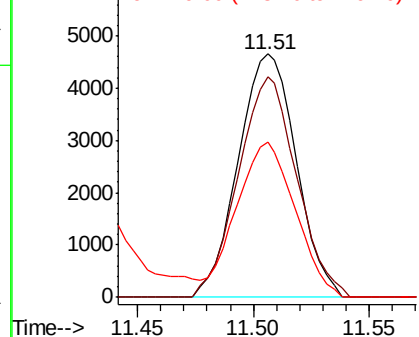
#65
 1,1,1,2-Tetrachloroethane
 Concen: 2.760 ug/l
 RT: 11.51 min Scan# 3027
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion:131 Resp: 8095
 Ion Ratio Lower Upper
 131 100
 133 91.2 0.0 189.6
 119 65.0 0.0 133.6

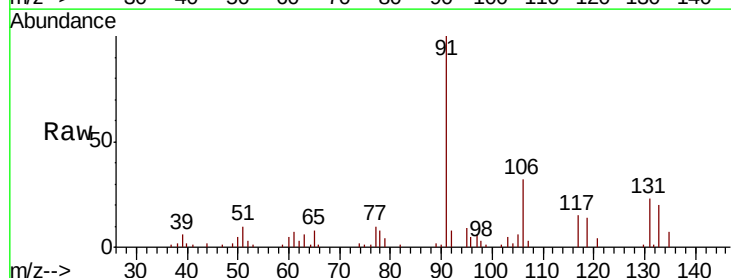


Abundance Ion 131.00 (130.70 to 131.70): V
 Ion 133.00 (132.70 to 133.70): V
 Ion 119.00 (118.70 to 119.70): V

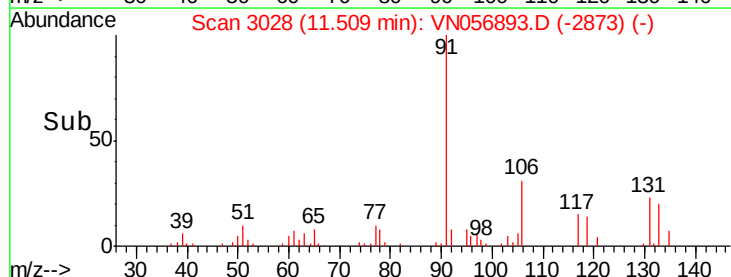
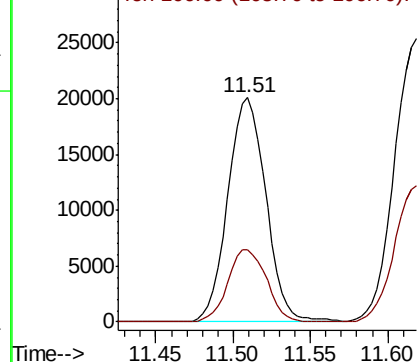


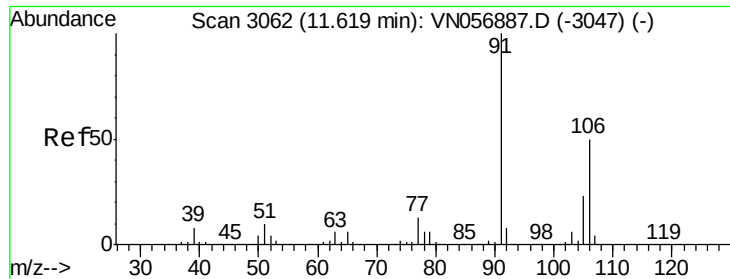
#66
 Ethyl Benzene
 Concen: 2.541 ug/l
 RT: 11.51 min Scan# 3028
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Tgt Ion: 91 Resp: 34414
 Ion Ratio Lower Upper
 91 100
 106 32.4 24.9 37.3



Abundance Ion 91.00 (90.70 to 91.70): VN0
 Ion 106.00 (105.70 to 106.70): V

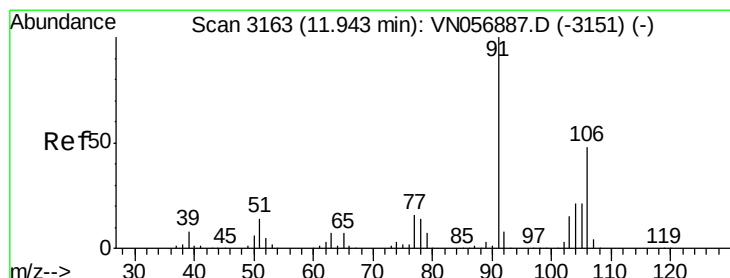
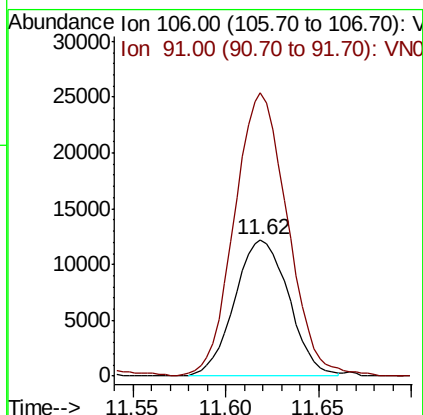
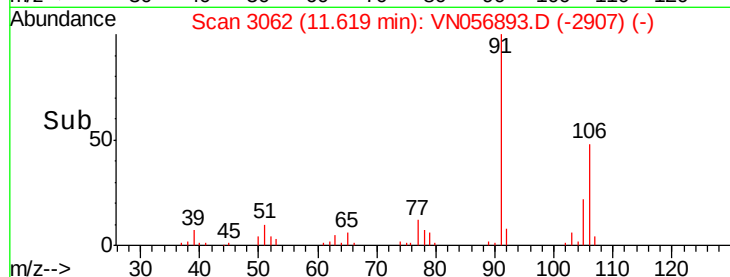
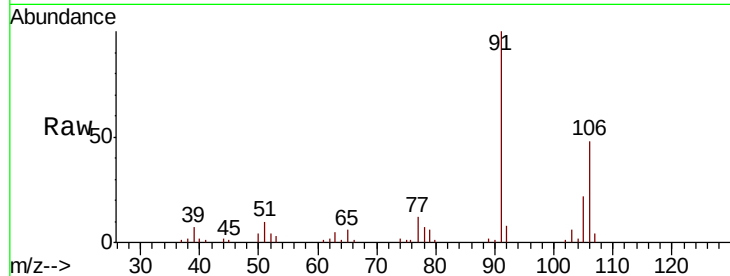




#67
m/p-Xylenes
Concen: 4.898 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

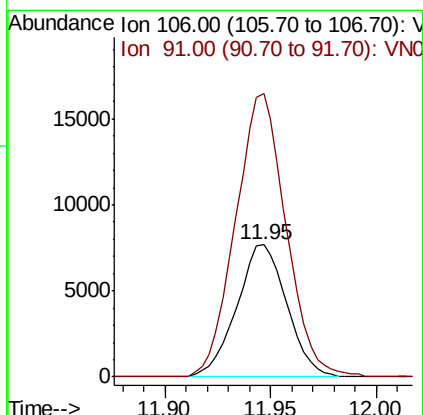
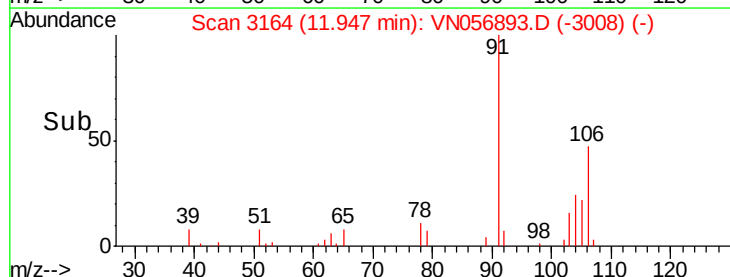
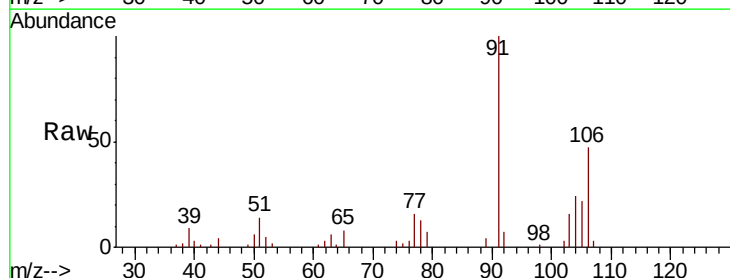
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

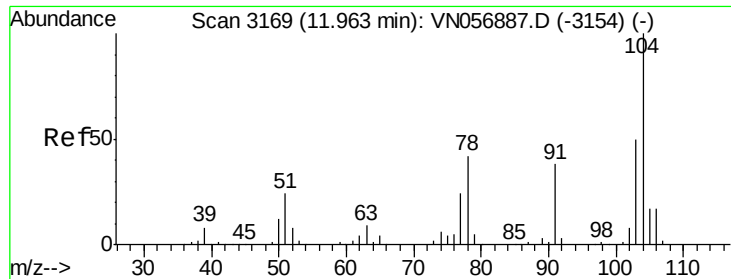
Tot Ion:106 Resp: 24741
Ion Ratio Lower Upper
106 100
91 204.2 160.6 240.8



#68
o-Xylene
Concen: 2.547 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion:106 Resp: 12648
Ion Ratio Lower Upper
106 100
91 216.4 106.2 318.6

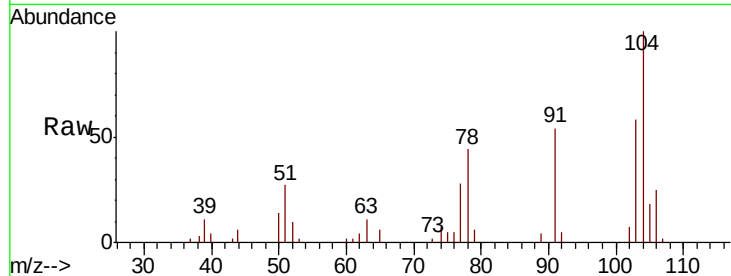




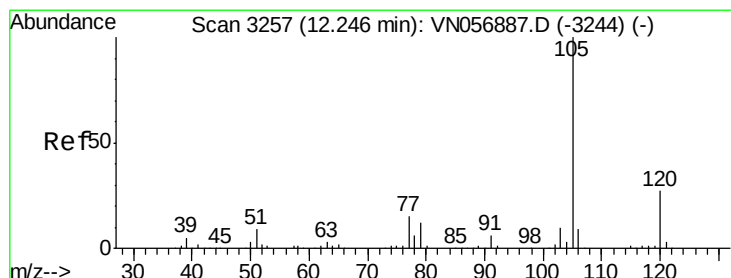
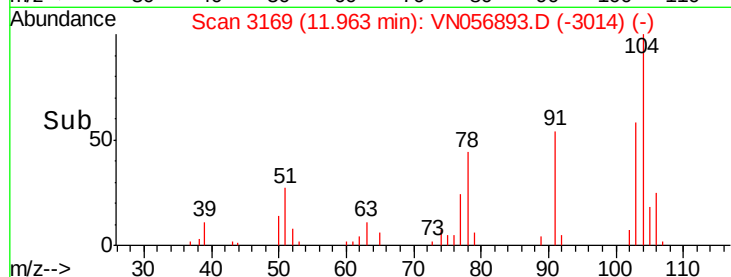
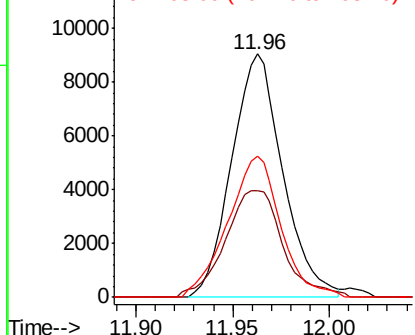
#69
Stvrene
Concen: 2.069 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion:104 Resp: 16653
Ion Ratio Lower Upper
104 100
78 49.5 38.5 57.7
103 60.0 44.7 67.1

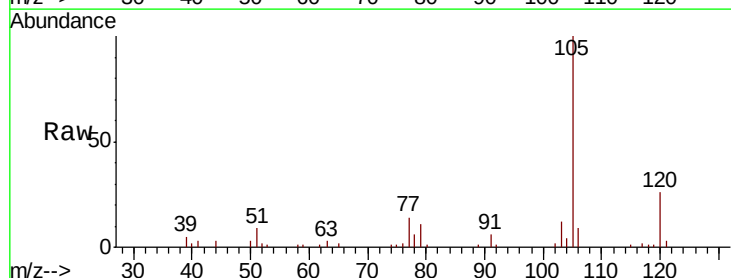


Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V

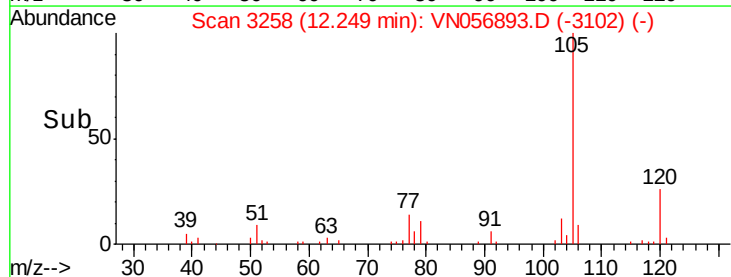
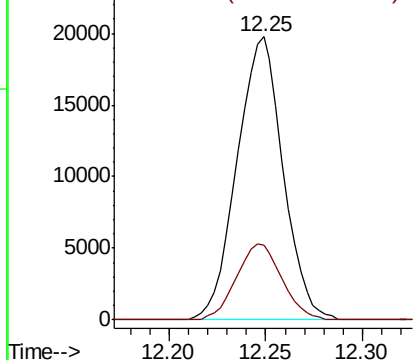


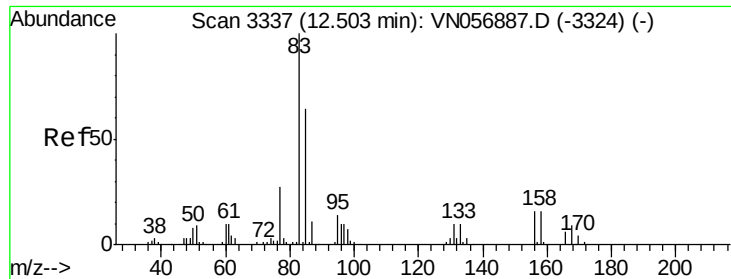
#70
Isopropylbenzene
Concen: 2.497 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion:105 Resp: 32647
Ion Ratio Lower Upper
105 100
120 26.4 18.7 34.7



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#71

1,1,2,2-Tetrachloroethane

Concen: 2.751 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

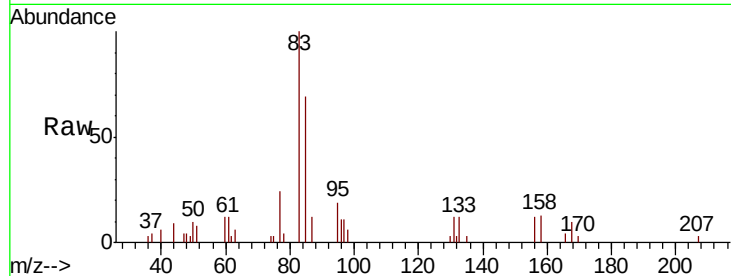
Tot Ion: 83 Resp: 10074

Ion Ratio Lower Upper

83 100

131 9.0 5.1 15.2

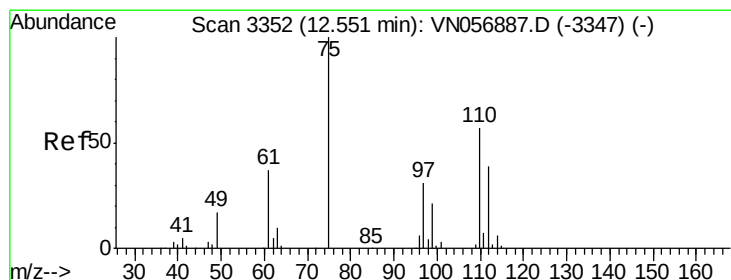
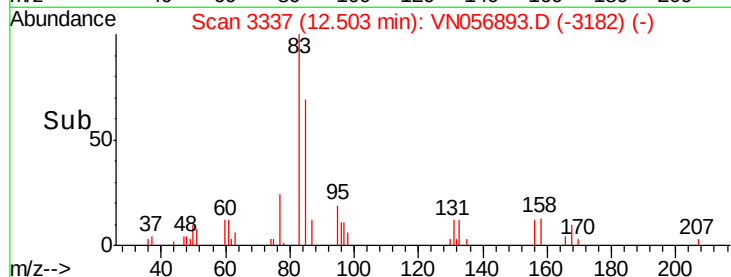
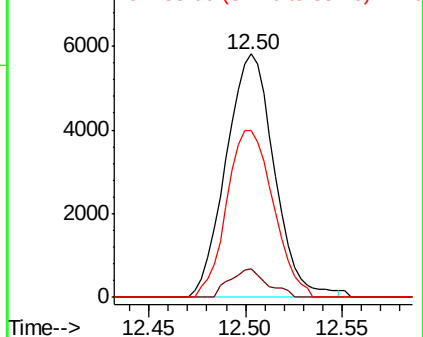
85 66.3 31.8 95.4



Abundance Ion 83.00 (82.70 to 83.70): VN0

Ion 131.00 (130.70 to 131.70): VN0

Ion 85.00 (84.70 to 85.70): VN0



#72

1,2,3-Trichloropropane

Concen: 3.411 ug/l

RT: 12.55 min Scan# 3352

Delta R.T. -0.00 min

Lab File: VN056893.D

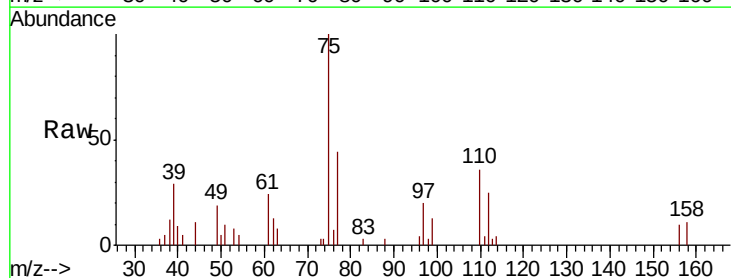
Acq: 23 Jul 2019 23:06

Tgt Ion: 75 Resp: 10990

Ion Ratio Lower Upper

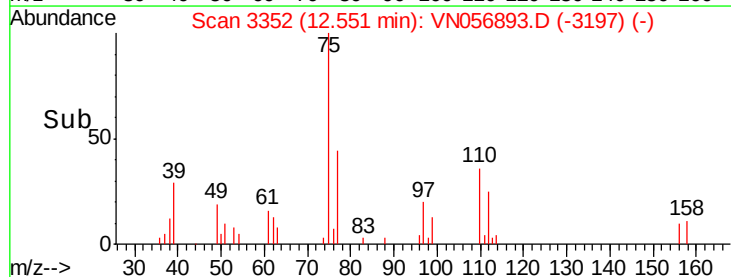
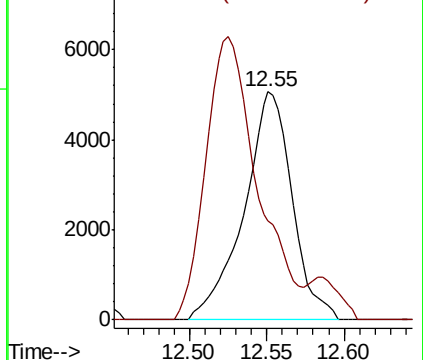
75 100

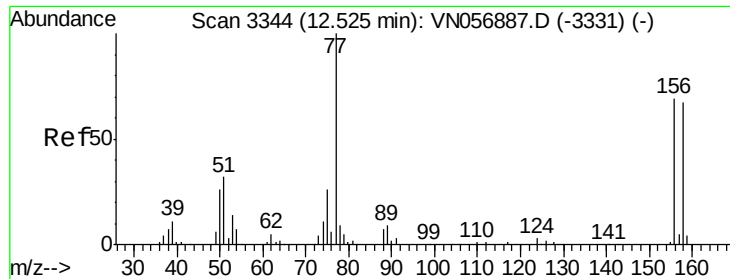
77 133.3 0.0 378.6



Abundance Ion 75.00 (74.70 to 75.70): VN0

Ion 77.00 (76.70 to 77.70): VN0





#73

Bromobenzene

Concen: 2.398 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

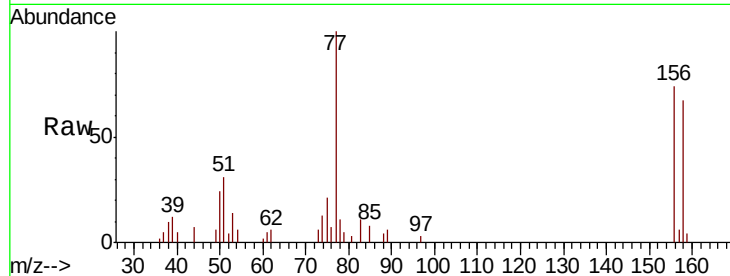
Tot Ion:156 Resp: 8091

Ion Ratio Lower Upper

156 100

77 181.1 0.0 364.6

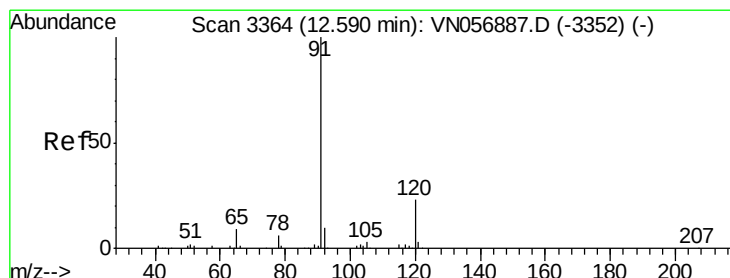
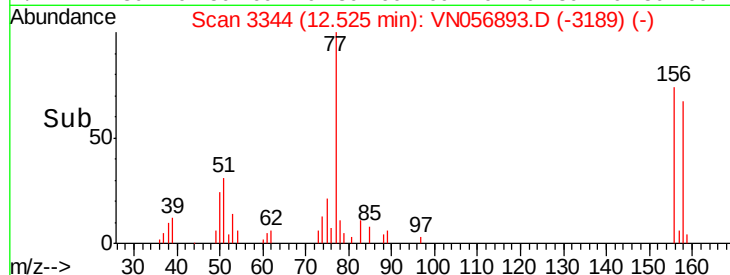
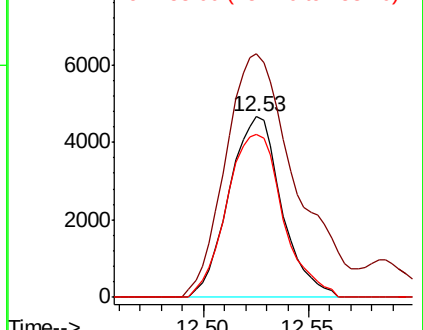
158 96.2 0.0 196.2



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 2.208 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN056893.D

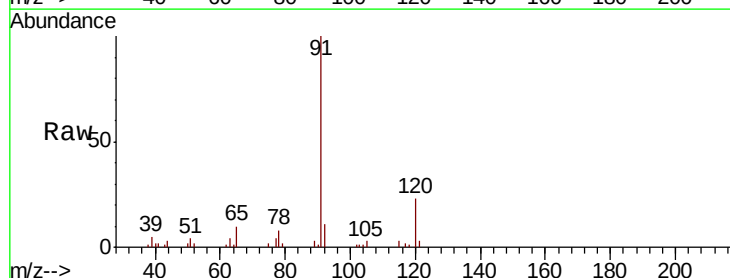
Acq: 23 Jul 2019 23:06

Tgt Ion: 91 Resp: 31564

Ion Ratio Lower Upper

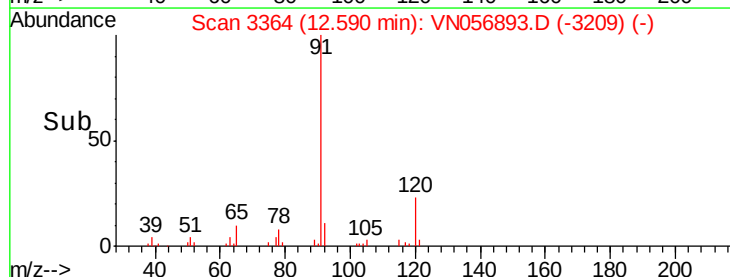
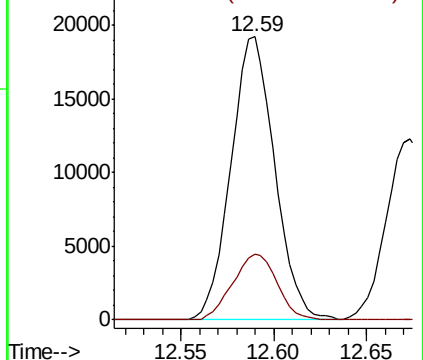
91 100

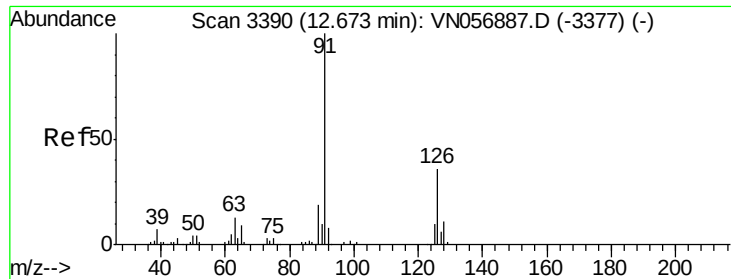
120 23.5 0.0 46.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 2.387 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

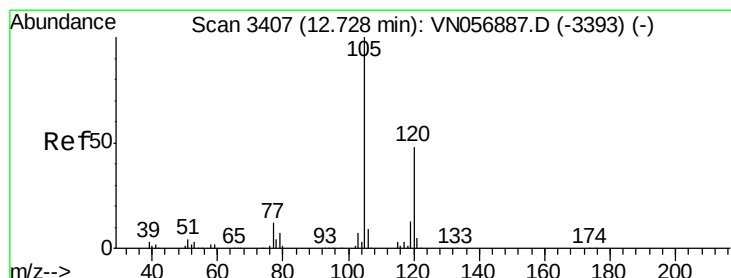
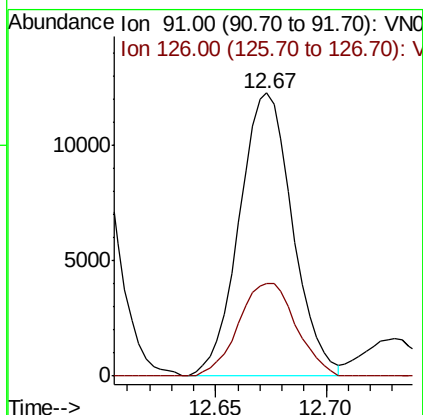
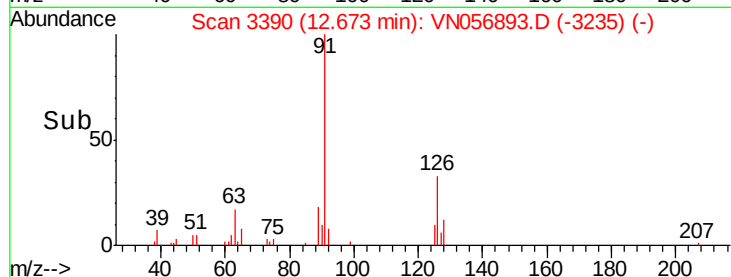
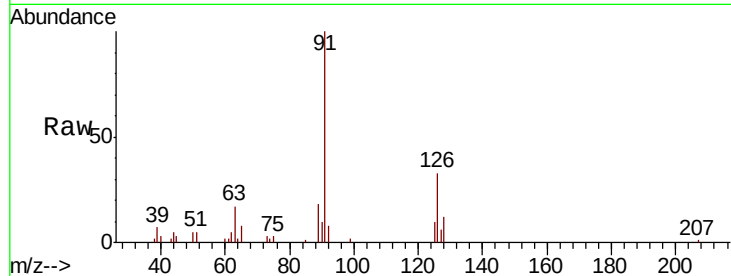
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 91 Resp: 20693

Ion Ratio Lower Upper

91 100

126 35.3 0.0 70.8



#76

1,3,5-Trimethylbenzene

Concen: 2.412 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN056893.D

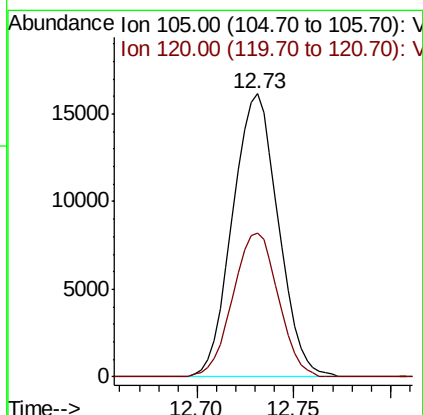
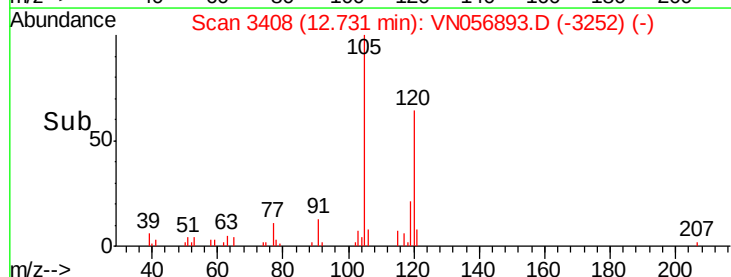
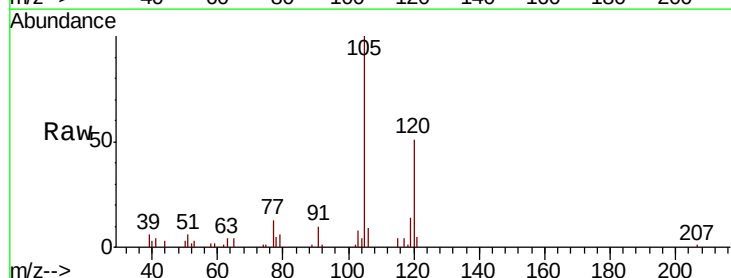
Acq: 23 Jul 2019 23:06

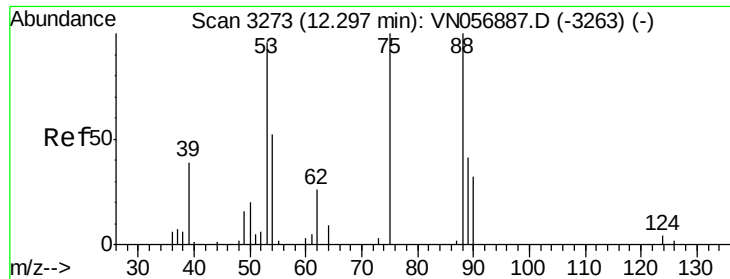
Tgt Ion: 105 Resp: 26547

Ion Ratio Lower Upper

105 100

120 50.3 0.0 97.2





#77

t-1,4-Dichloro-2-butene

Concen: 1.693 ug/l

RT: 12.30 min Scan# 3273

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

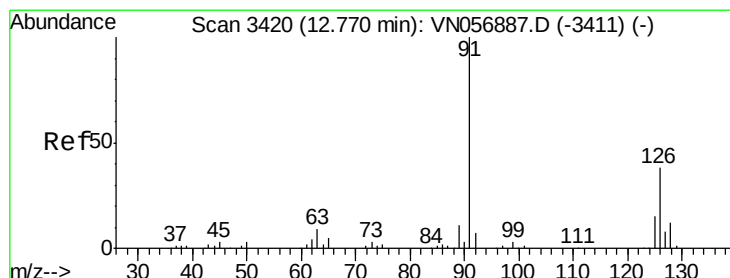
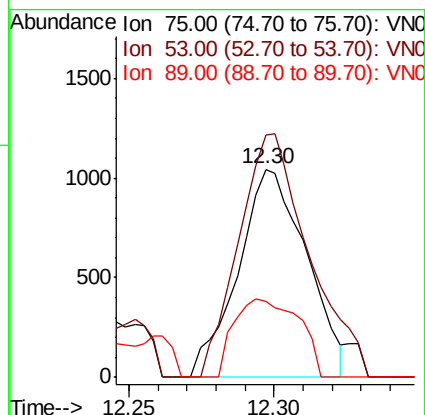
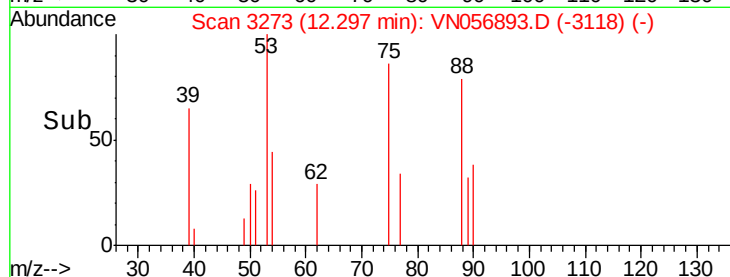
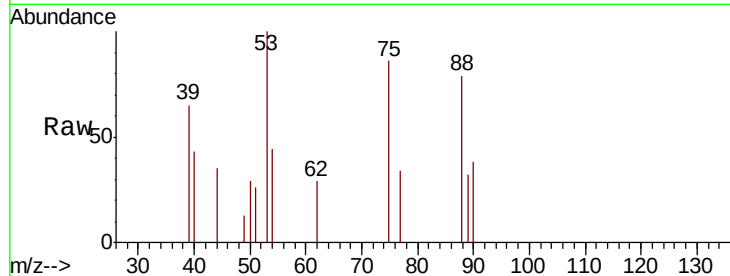
Tot Ion: 75 Resp: 1713

Ion Ratio Lower Upper

75 100

53 116.8 48.0 144.0

89 36.8 21.4 64.3



#78

4-Chlorotoluene

Concen: 2.023 ug/l

RT: 12.77 min Scan# 3420

Delta R.T. -0.00 min

Lab File: VN056893.D

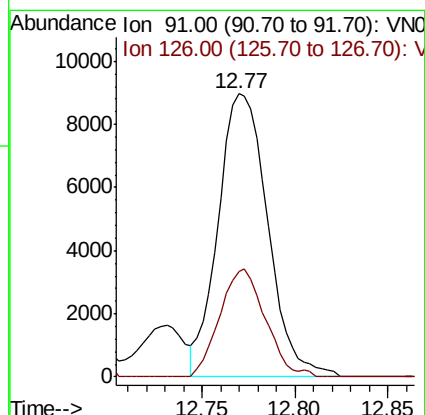
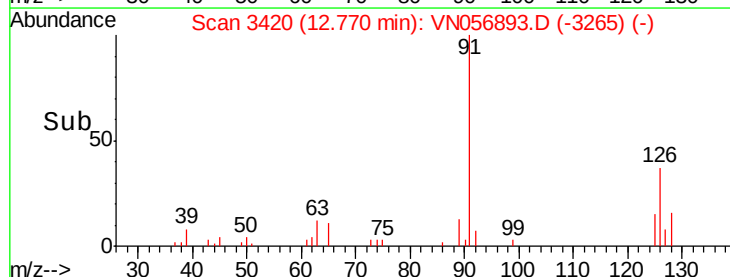
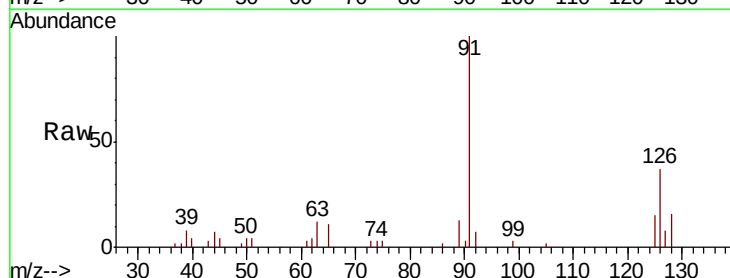
Acq: 23 Jul 2019 23:06

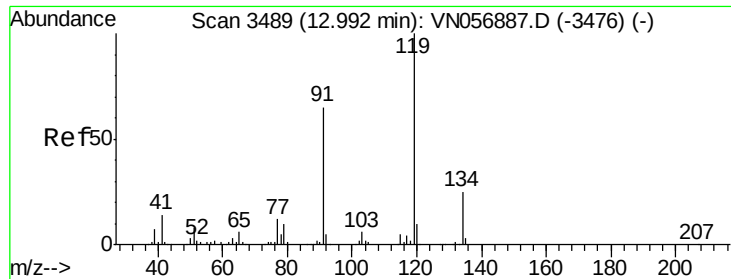
Tgt Ion: 91 Resp: 16666

Ion Ratio Lower Upper

91 100

126 34.5 0.0 69.6

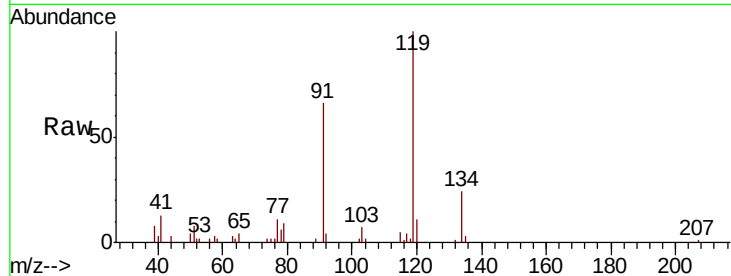




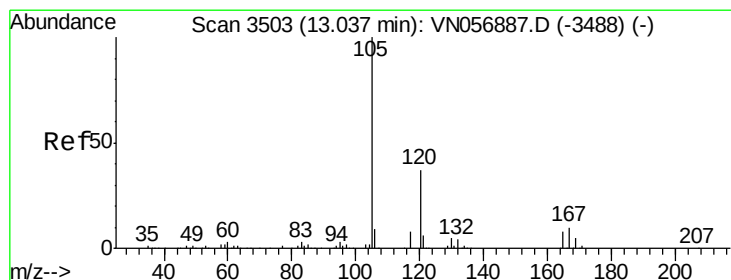
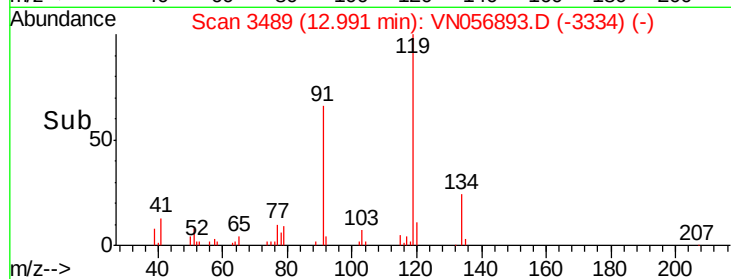
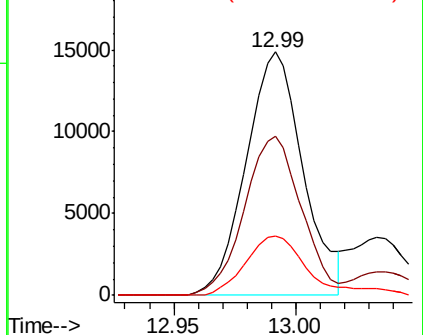
#79
tert-butylbenzene
Concen: 2.537 ug/l
RT: 12.99 min Scan# 3489
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion:119 Resp: 24100
Ion Ratio Lower Upper
119 100
91 65.2 0.0 126.8
134 25.6 0.0 48.8

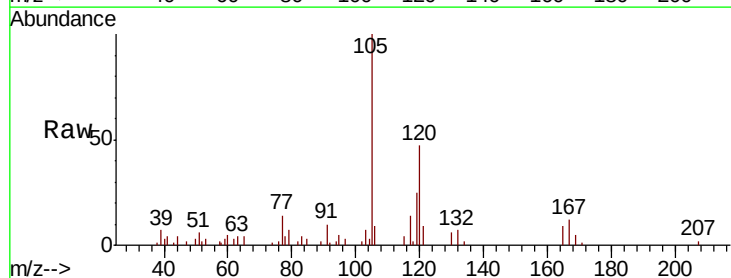


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

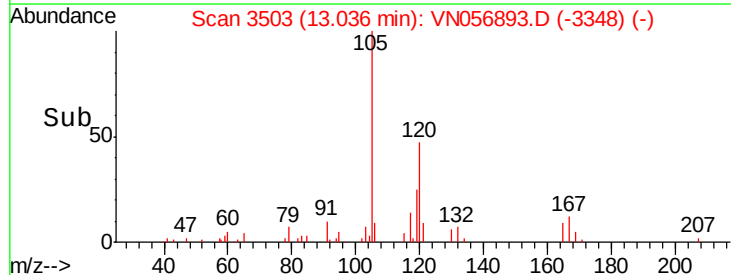
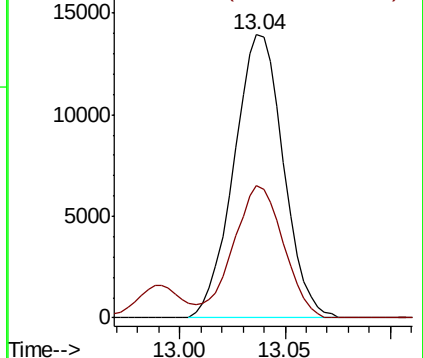


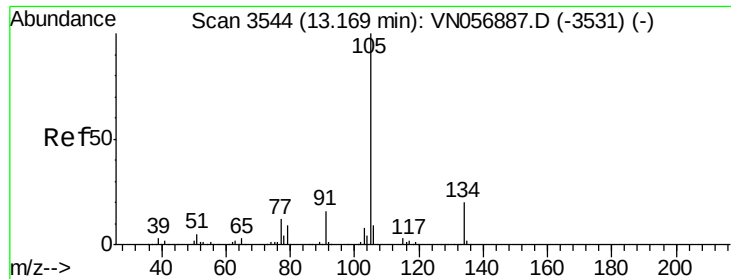
#80
1,2,4-Trimethylbenzene
Concen: 2.116 ug/l
RT: 13.04 min Scan# 3503
Delta R.T. -0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion:105 Resp: 22709
Ion Ratio Lower Upper
105 100
120 47.5 0.0 90.6



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#81

sec-Butylbenzene

Concen: 2.314 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

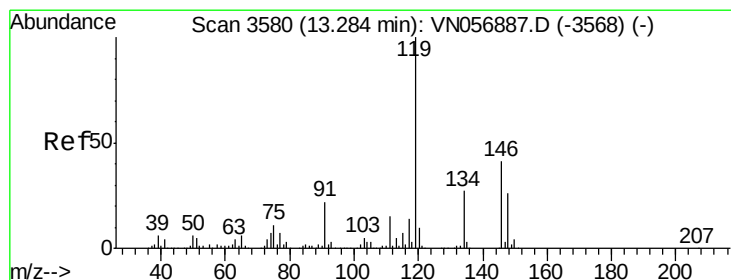
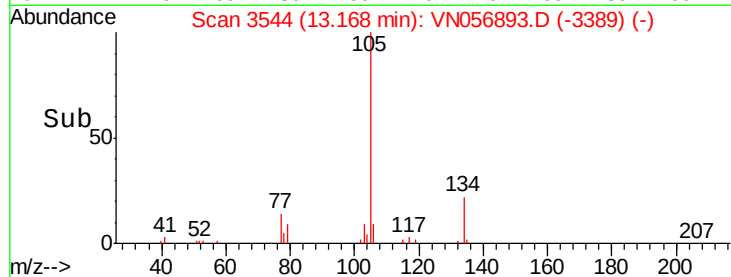
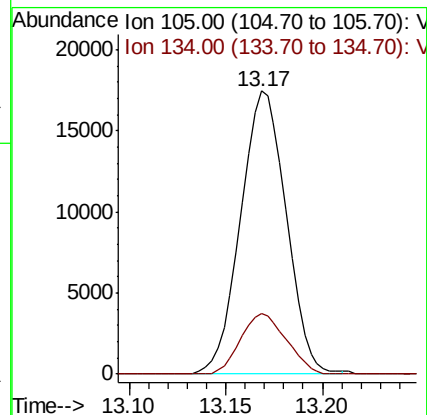
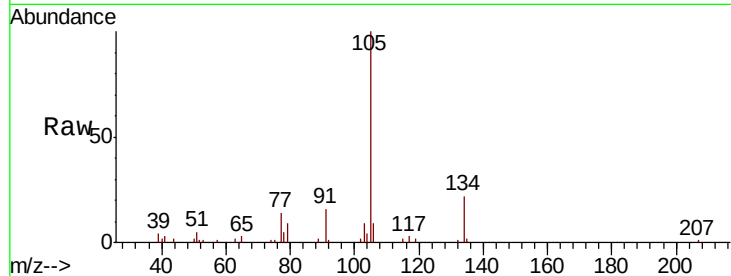
MDL-MDL-WATER-03-QT3-2019

Tot Ion:105 Resp: 28700

Ion Ratio Lower Upper

105 100

134 21.3 0.0 41.2



#82

p-Isopropyltoluene

Concen: 2.193 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

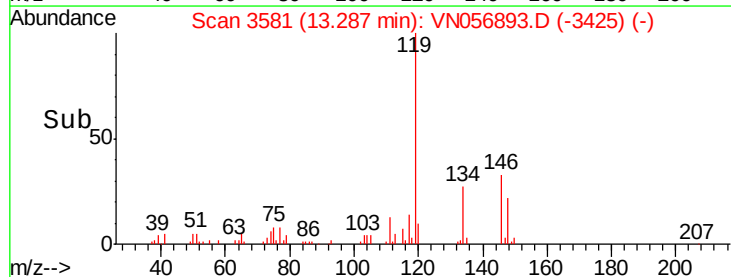
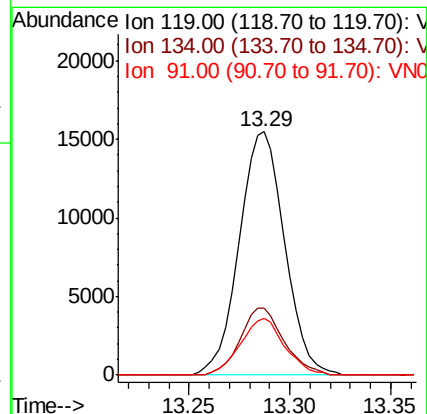
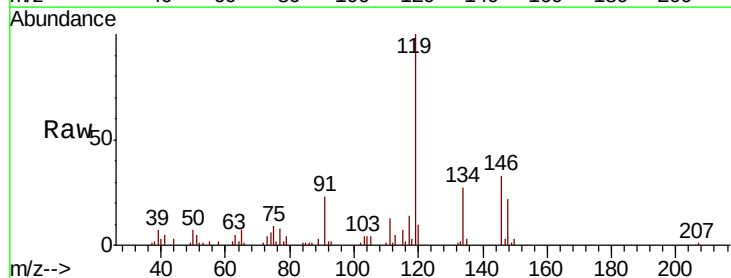
Tgt Ion:119 Resp: 24421

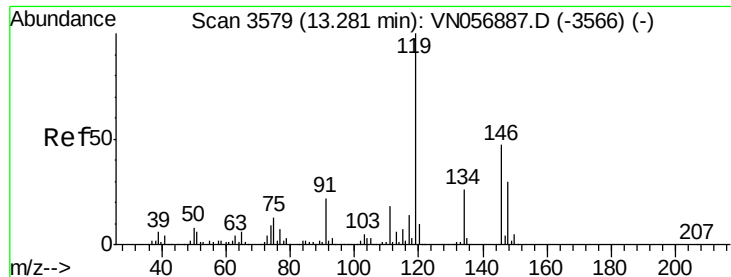
Ion Ratio Lower Upper

119 100

134 26.4 0.0 53.2

91 22.8 0.0 44.0





#83

1,3-Dichlorobenzene

Concen: 1.810 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

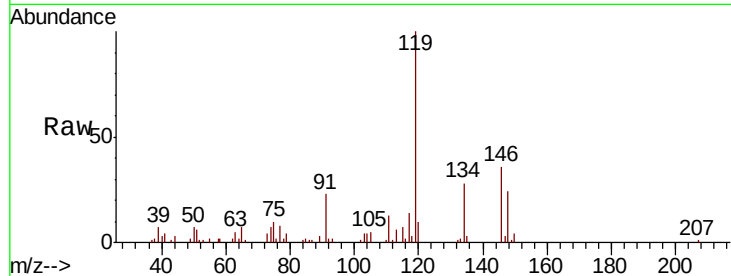
Tot Ion:146 Resp: 9615

Ion Ratio Lower Upper

146 100

111 37.2 18.8 56.4

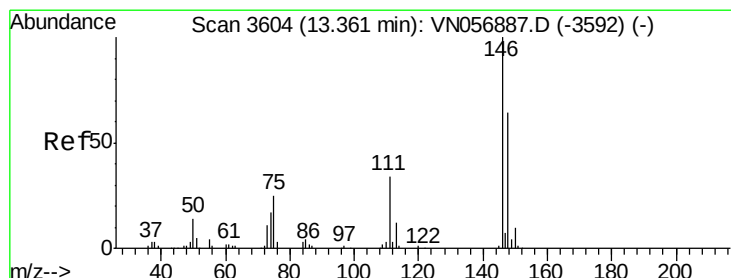
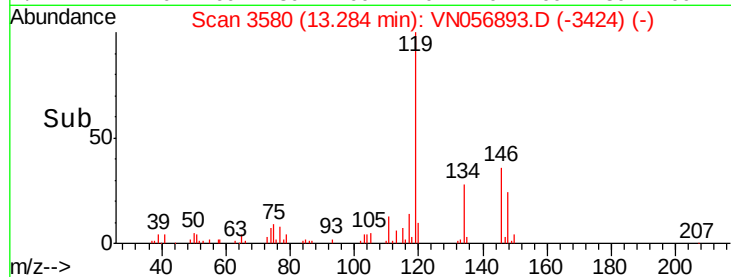
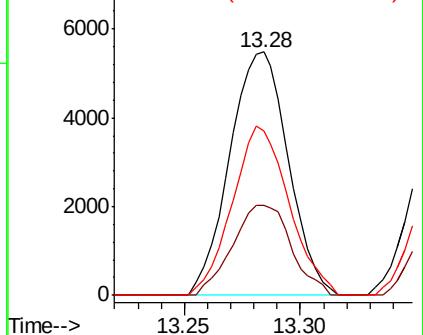
148 67.4 31.7 95.1



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#84

1,4-Dichlorobenzene

Concen: 1.862 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

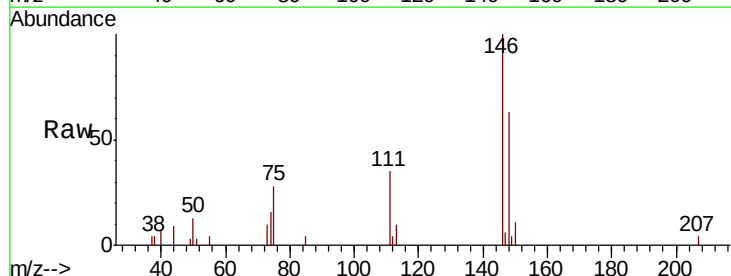
Tgt Ion:146 Resp: 9355

Ion Ratio Lower Upper

146 100

111 35.4 17.8 53.5

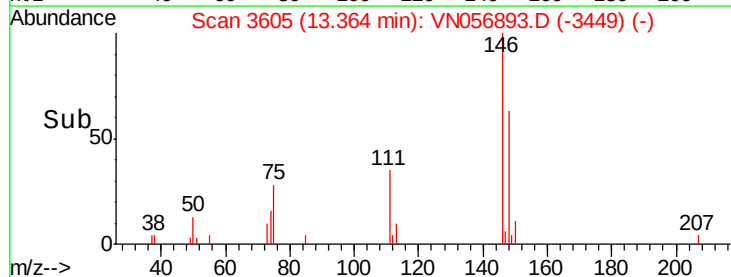
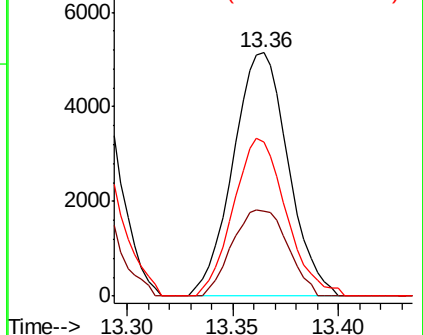
148 61.8 32.6 97.7

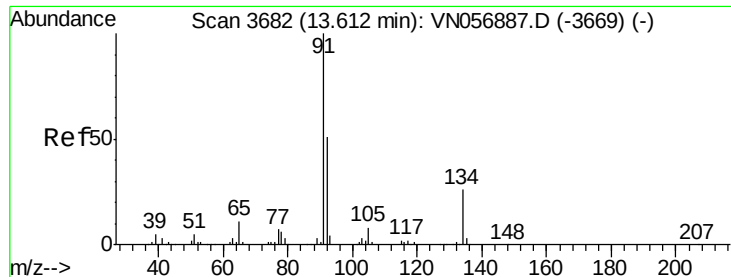


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#85

n-Butylbenzene

Concen: 1.825 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. -0.00 min

Lab File: VN056893.D

Acq: 23 Jul 2019 23:06

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

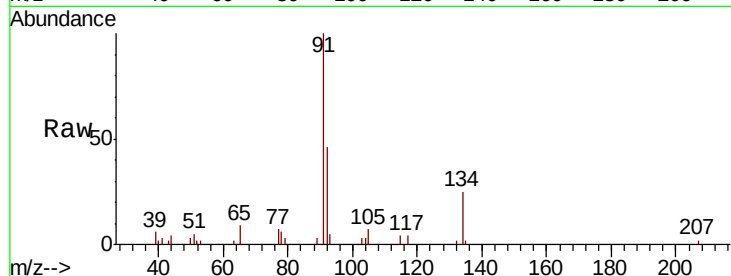
Tot Ion: 91 Resp: 15964

Ion Ratio Lower Upper

91 100

92 46.4 0.0 101.8

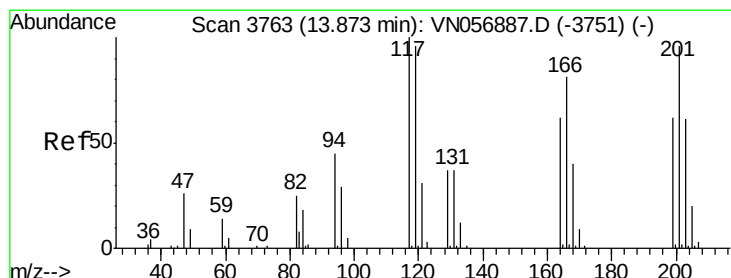
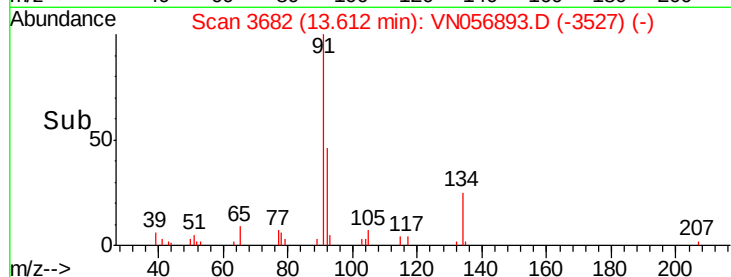
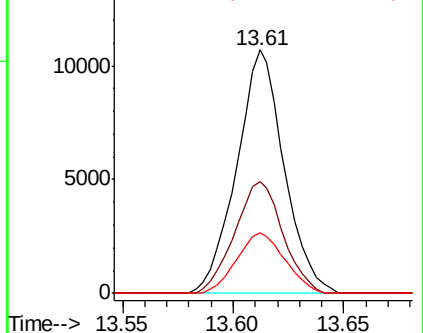
134 25.3 0.0 52.4



Abundance Ion 91.00 (90.70 to 91.70): VN056887.D (-3669) (-)

Ion 92.00 (91.70 to 92.70): VN056887.D (-3669) (-)

Ion 134.00 (133.70 to 134.70): VN056887.D (-3669) (-)



#86

Hexachloroethane

Concen: 2.280 ug/l

RT: 13.87 min Scan# 3763

Delta R.T. -0.00 min

Lab File: VN056893.D

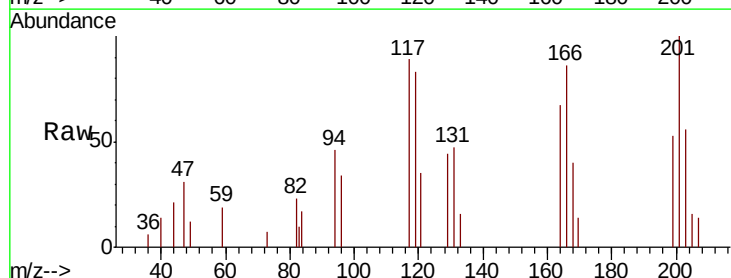
Acq: 23 Jul 2019 23:06

Tgt Ion: 117 Resp: 4250

Ion Ratio Lower Upper

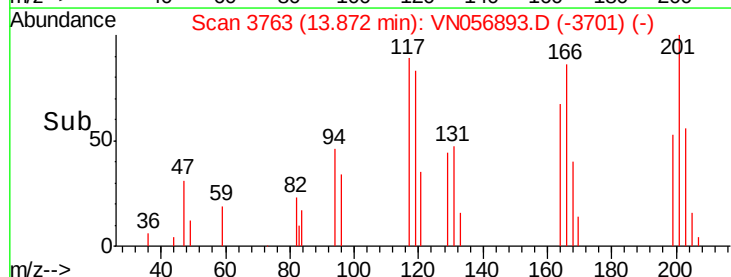
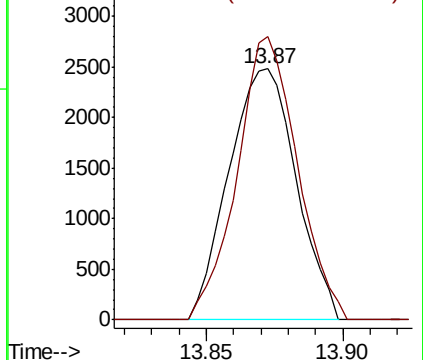
117 100

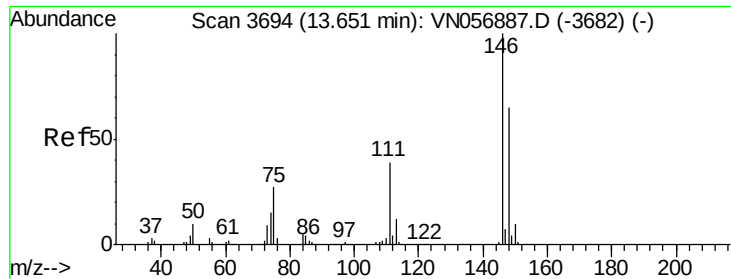
201 100.7 47.8 143.3



Abundance Ion 117.00 (116.70 to 117.70): VN056887.D (-3751) (-)

Ion 201.00 (200.70 to 201.70): VN056887.D (-3751) (-)

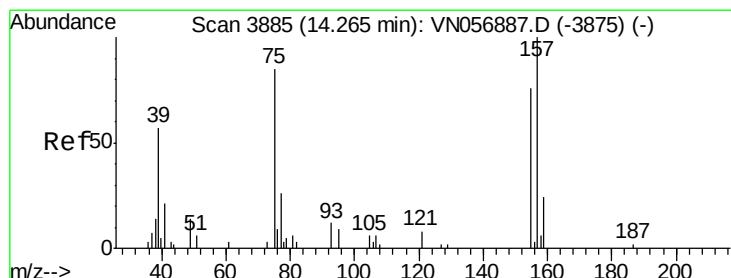
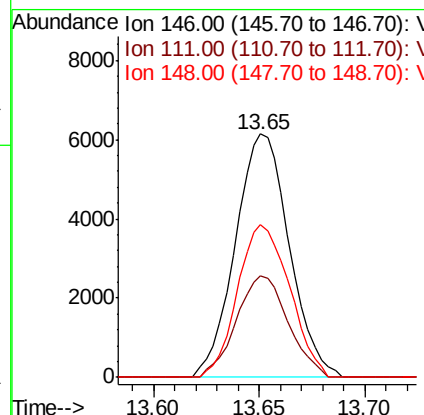
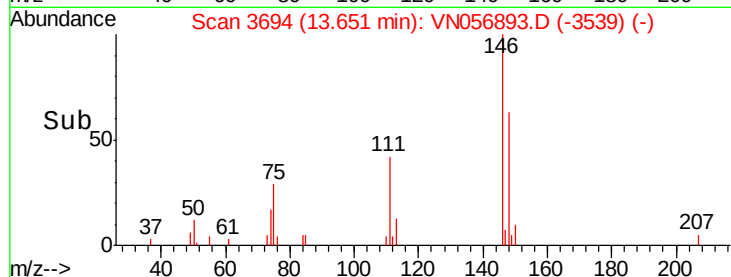
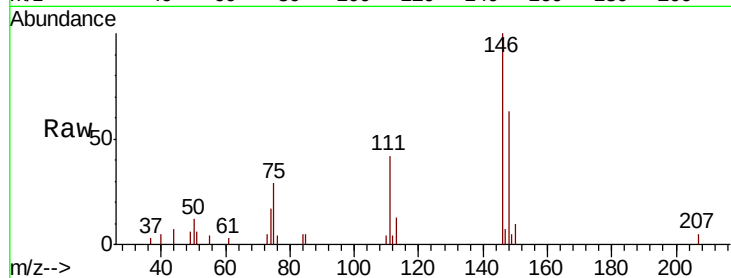




#87
 1,2-Dichlorobenzene
 Concen: 2.069 ug/l
 RT: 13.65 min Scan# 3694
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

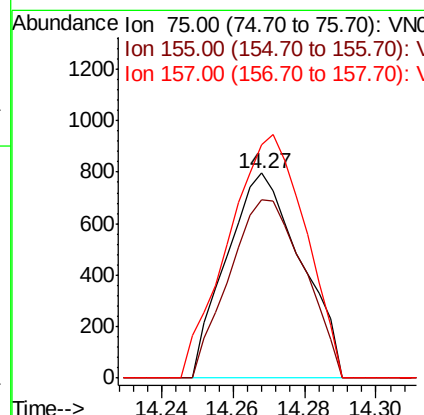
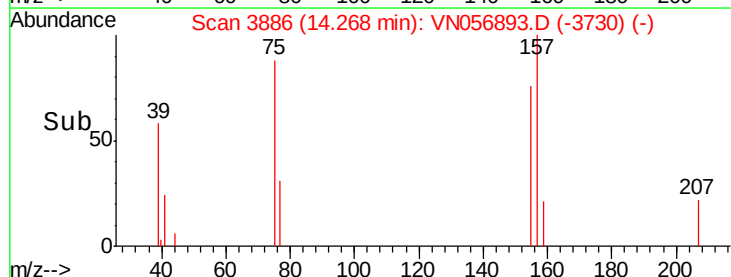
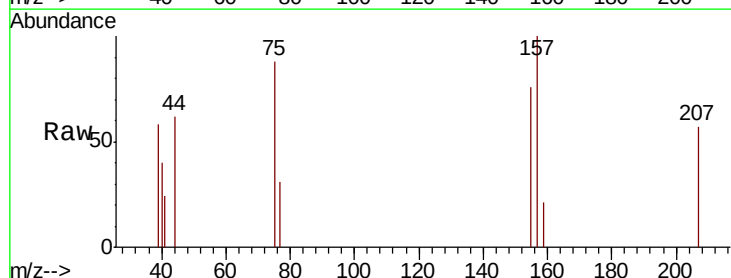
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

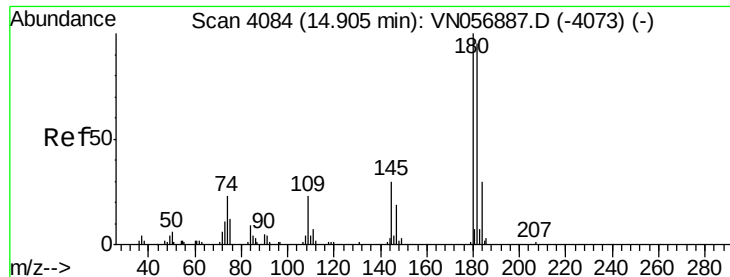
Tot Ion:146 Resp: 10916
 Ion Ratio Lower Upper
 146 100
 111 40.1 19.6 58.8
 148 60.3 32.5 97.5



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 2.032 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Tgt Ion: 75 Resp: 1151
 Ion Ratio Lower Upper
 75 100
 155 87.4 73.4 110.2
 157 122.8 95.0 142.6

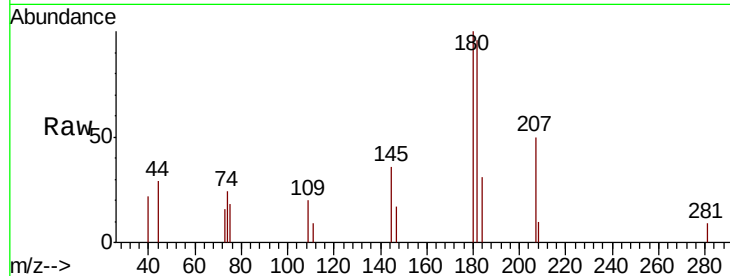




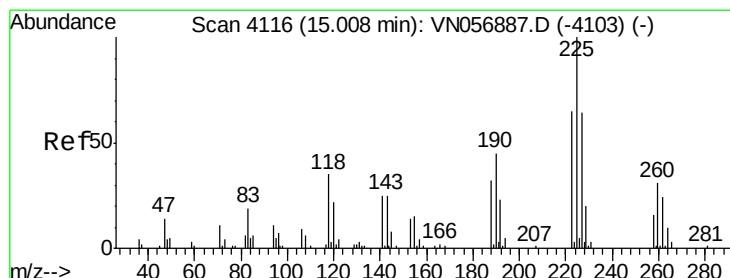
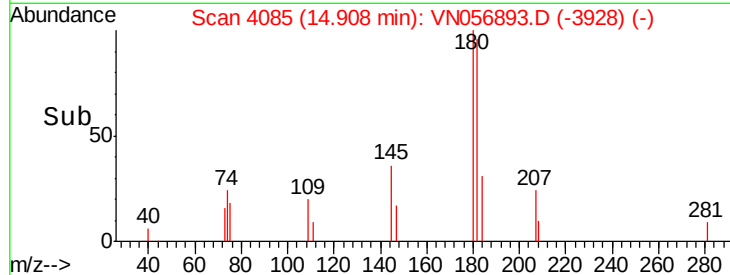
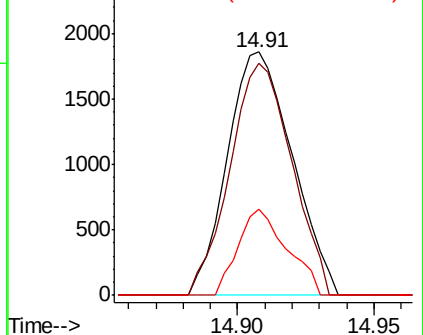
#89
 1,2,4-Trichlorobenzene
 Concen: 8.851 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

Tot Ion:180 Resp: 3069
 Ion Ratio Lower Upper
 180 100
 182 90.7 77.0 115.4
 145 26.7 23.5 35.3

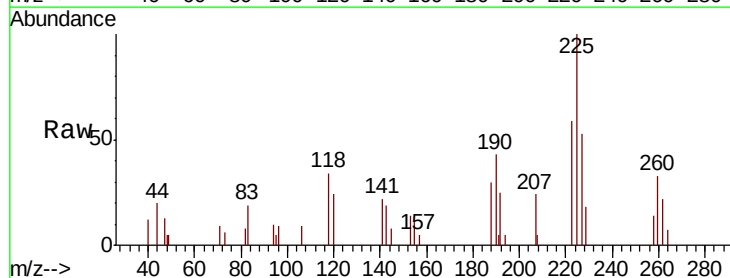


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 145.00 (144.70 to 145.70): V

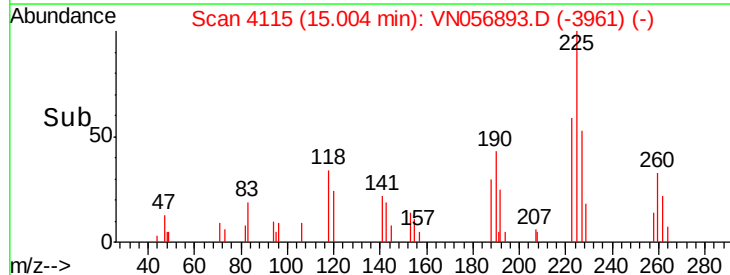
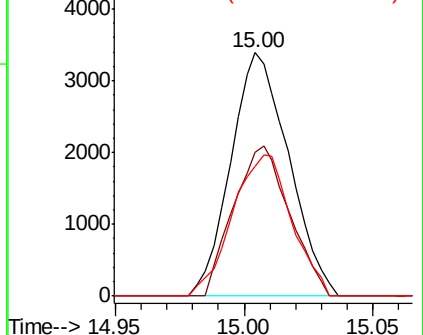


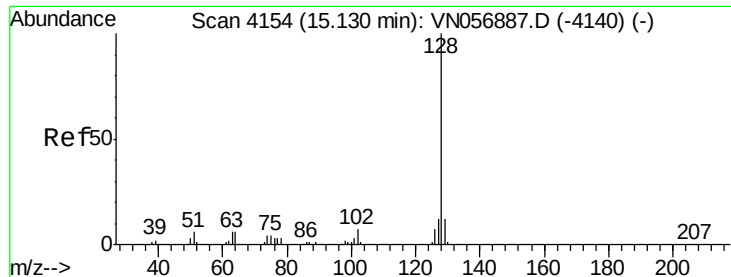
#90
 Hexachlorobutadiene
 Concen: 2.737 ug/l
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VN056893.D
 Acq: 23 Jul 2019 23:06

Tgt Ion:225 Resp: 5309
 Ion Ratio Lower Upper
 225 100
 223 59.7 0.0 130.0
 227 59.3 0.0 127.2



Abundance Ion 225.00 (224.70 to 225.70): V
 Ion 223.00 (222.70 to 223.70): V
 Ion 227.00 (226.70 to 227.70): V

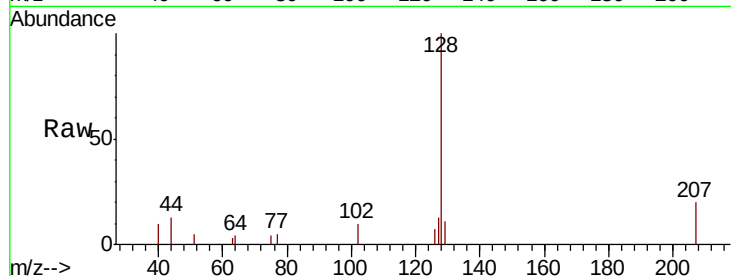




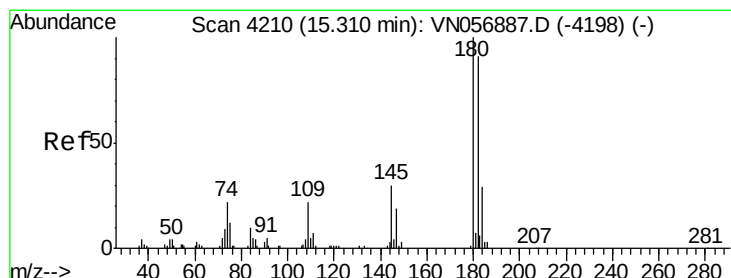
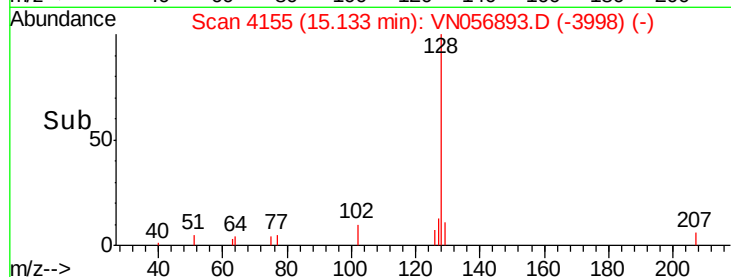
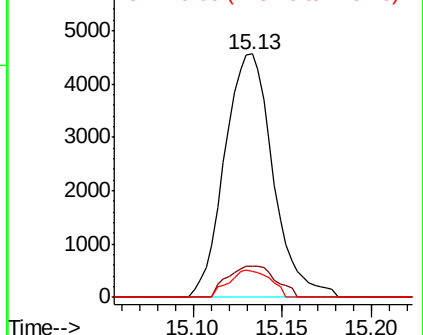
#91
Naphthalene
Concen: 8.614 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

Tot Ion:128 Resp: 8618
Ion Ratio Lower Upper
128 100
127 12.8 10.0 15.0
129 9.6 8.9 13.3

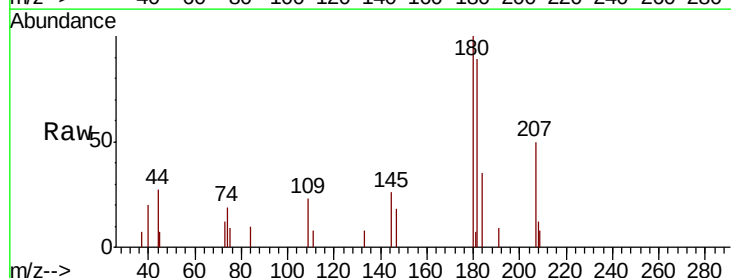


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#92
1,2,3-Trichlorobenzene
Concen: 1.530 ug/l
RT: 15.32 min Scan# 4212
Delta R.T. 0.01 min
Lab File: VN056893.D
Acq: 23 Jul 2019 23:06

Tgt Ion:180 Resp: 4267
Ion Ratio Lower Upper
180 100
182 89.9 0.0 188.0
145 24.6 0.0 61.0



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

