

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072719\
 Data File : VN056947.D
 Acq On : 26 Jul 2019 17:27
 Operator : JC/SP
 Sample : K3591-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

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

Quant Time: Jul 27 00:54:53 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:47:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	581809	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	899085	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	751192	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	227658	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	306180	51.41	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.82%	
35) Dibromofluoromethane	7.58	113	276119	47.97	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.94%	
50) Toluene-d8	10.08	98	1037998	47.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.58%	
62) 4-Bromofluorobenzene	12.40	95	285639	39.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	79.96%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.84	85	11979	2.037	ug/l	95
3) Chloromethane	2.05	50	19026	2.701	ug/l	99
4) Vinyl Chloride	2.18	62	15343	2.323	ug/l	100
5) Bromomethane	2.55	94	13597	3.312	ug/l	96
6) Chloroethane	2.69	64	9542	2.621	ug/l	94
7) Trichlorofluoromethane	3.00	101	21079	2.438	ug/l	97
8) Diethyl Ether	3.39	74	8239	2.547	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.74	101	13113	2.447	ug/l	96
10) Methyl Iodide	3.94	142	9377	1.309	ug/l	99
11) Tert butyl alcohol	4.77	59	10947	13.599	ug/l #	95
12) 1,1-Dichloroethene	3.72	96	13426	2.625	ug/l	94
13) Acrolein	3.60	56	5764	11.566	ug/l	93
14) Allyl chloride	4.30	41	20215	2.430	ug/l	96
15) Acrylonitrile	4.98	53	29168	12.355	ug/l	98
16) Acetone	3.81	43	25963	12.033	ug/l	99
17) Carbon Disulfide	4.03	76	31282	2.302	ug/l	100
18) Methyl Acetate	4.31	43	8495	1.234	ug/l #	46
19) Methyl tert-butyl Ether	5.03	73	38314	2.513	ug/l	92
20) Methylene Chloride	4.54	84	15859	2.552	ug/l	90
21) trans-1,2-Dichloroethene	5.02	96	13780	2.537	ug/l	96
22) Diisopropyl ether	5.94	45	42316	2.469	ug/l	97
23) Vinyl Acetate	5.88	43	141015	11.874	ug/l	98
24) 1,1-Dichloroethane	5.83	63	25409	2.513	ug/l	99
25) 2-Butanone	6.82	43	37265	12.180	ug/l	99
26) 2,2-Dichloropropane	6.81	77	17958	2.335	ug/l #	75
27) cis-1,2-Dichloroethene	6.81	96	16676	2.596	ug/l	99
28) Bromochloromethane	7.18	49	11972	2.519	ug/l	95
29) Tetrahydrofuran	7.20	42	25085	12.567	ug/l	99
30) Chloroform	7.36	83	26236	2.537	ug/l	94
31) Cyclohexane	7.64	56	30076	3.073	ug/l #	53
32) 1,1,1-Trichloroethane	7.55	97	20297	2.460	ug/l	96
36) 1,1-Dichloropropene	7.78	75	19370	2.448	ug/l	99
37) Ethyl Acetate	6.92	43	15107	2.384	ug/l #	89
38) Carbon Tetrachloride	7.76	117	17181	2.296	ug/l	100

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 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 00:47:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.07	83	22737	2.249	ug/l	99
40) Benzene	8.03	78	60317	2.475	ug/l	97
41) Methacrylonitrile	7.20	41	22236	7.591	ug/l #	12
42) 1,2-Dichloroethane	8.11	62	19254	2.521	ug/l	98
43) Isopropyl Acetate	8.15	43	24853	2.373	ug/l	97
44) Trichloroethene	8.82	130	15848	2.361	ug/l	100
45) 1,2-Dichloropropane	9.10	63	14849	2.278	ug/l	100
46) Dibromomethane	9.20	93	9634	2.451	ug/l	95
47) Bromodichloromethane	9.39	83	17707	2.291	ug/l	98
48) Methyl methacrylate	9.19	41	11728	2.320	ug/l	97
49) 1,4-Dioxane	9.19	88	5106	49.003	ug/l #	90
51) 4-Methyl-2-Pentanone	9.98	43	73868	11.871	ug/l	97
52) Toluene	10.15	92	34672	2.368	ug/l	95
53) t-1,3-Dichloropropene	10.37	75	16014	1.997	ug/l	100
54) cis-1,3-Dichloropropene	9.83	75	19688	2.111	ug/l	97
55) 1,1,2-Trichloroethane	10.55	97	14464	2.464	ug/l	95
56) Ethyl methacrylate	10.42	69	17891	3.707	ug/l	98
57) 1,3-Dichloropropane	10.70	76	23368	2.400	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.69	63	35687	10.143	ug/l	99
59) 2-Hexanone	10.74	43	48425	12.504	ug/l	93
60) Dibromochloromethane	10.89	129	12923	2.148	ug/l	100
61) 1,2-Dibromoethane	11.00	107	13561	2.367	ug/l	96
64) Tetrachloroethene	10.62	164	15845	2.448	ug/l	96
65) Chlorobenzene	11.43	112	36533	2.386	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.50	131	13367	2.320	ug/l	98
67) Ethyl Benzene	11.50	91	60732	2.295	ug/l	97
68) m/p-Xylenes	11.62	106	43375	4.442	ug/l	97
69) o-Xylene	11.94	106	21651	2.266	ug/l	99
70) Styrene	11.96	104	32164	3.700	ug/l	97
71) Bromoform	12.12	173	8785	2.184	ug/l #	94
73) Isopropylbenzene	12.24	105	57605	2.928	ug/l	97
74) N-amyl acetate	12.07	43	13807	2.417	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	17584	1.034	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	19273	4.169	ug/l #	100
77) Bromobenzene	12.52	156	14594	2.842	ug/l	98
78) n-propylbenzene	12.58	91	56378	2.684	ug/l	99
79) 2-Chlorotoluene	12.67	91	37048	2.864	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	46177	2.860	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	132488	92.072	ug/l #	15
82) 4-Chlorotoluene	12.77	91	32203	2.660	ug/l	98
83) tert-Butylbenzene	12.99	119	41877	2.929	ug/l	97
84) 1,2,4-Trimethylbenzene	13.04	105	42946	2.764	ug/l	97
85) sec-Butylbenzene	13.17	105	51182	2.776	ug/l	100
86) p-Isopropyltoluene	13.28	119	44761	2.734	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	20195	2.585	ug/l	96
88) 1,4-Dichlorobenzene	13.36	146	18253	2.427	ug/l	90
89) n-Butylbenzene	13.61	91	30309	2.402	ug/l	99
90) Hexachloroethane	13.87	117	7431	2.636	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	20191	2.626	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.26	75	2083	2.662	ug/l	93

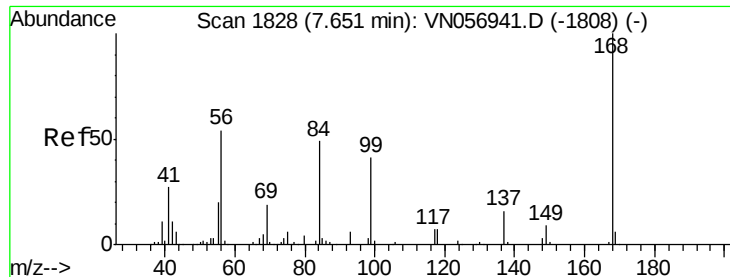
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Quant Title : SW846 8260
QLast Update : Sat Jul 27 00:47:27 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	6218	4.194	ug/l	97
94) Hexachlorobutadiene	15.01	225	8913	Below Cal		99
95) Naphthalene	15.12	128	14954	5.023	ug/l	96
96) 1,2,3-Trichlorobenzene	15.29	180	7941	3.950	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

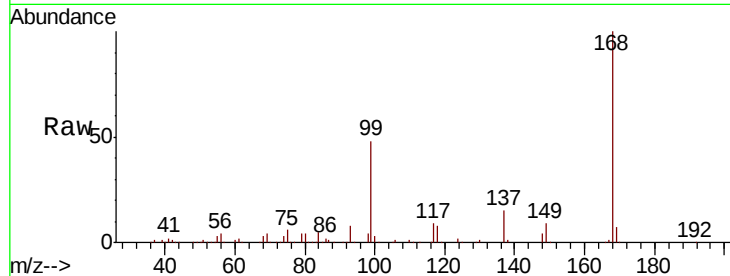
MDL-MDL-WATER-03-QT3-2019

Tot Ion:168 Resp: 581809

Ion Ratio Lower Upper

168 100

99 47.5 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

250000

200000

150000

100000

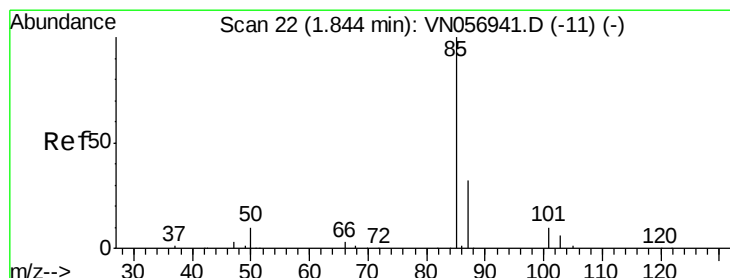
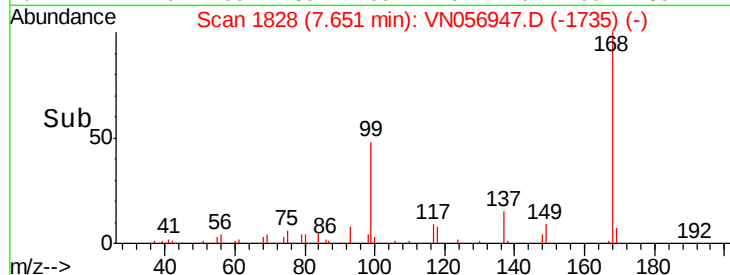
50000

0

7.60

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 2.037 ug/l

RT: 1.84 min Scan# 22

Delta R.T. 0.00 min

Lab File: VN056947.D

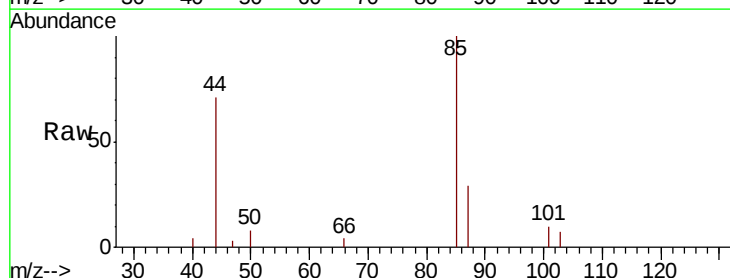
Acq: 26 Jul 2019 17:27

Tgt Ion: 85 Resp: 11979

Ion Ratio Lower Upper

85 100

87 28.9 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): V

Ion 86.90 (86.60 to 87.60): VN

1.84

8000

6000

4000

2000

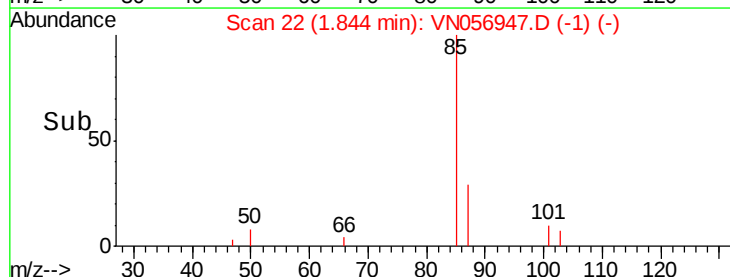
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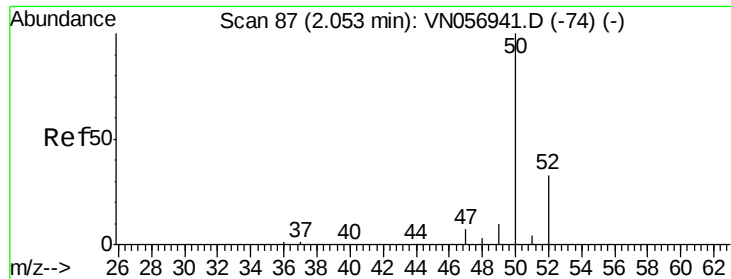
1.80

1.85

1.90

Time-->





#3

Chloromethane

Concen: 2.701 ug/l

RT: 2.05 min Scan# 87

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

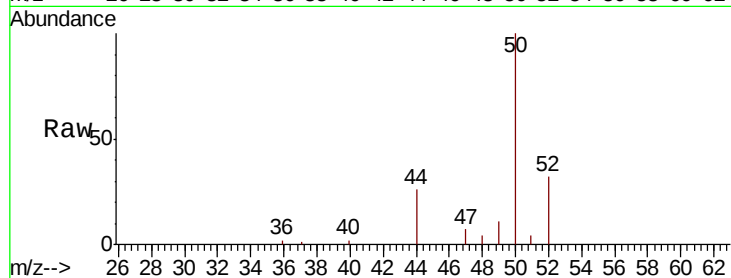
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 50 Resp: 19026

Ion Ratio Lower Upper

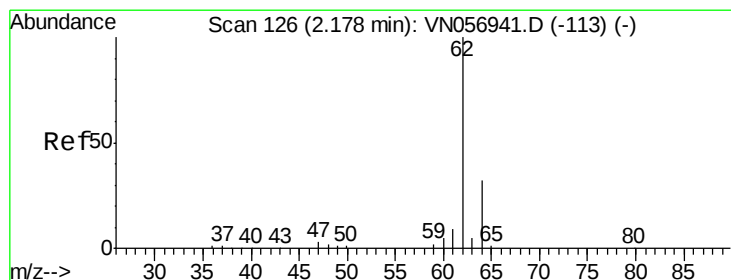
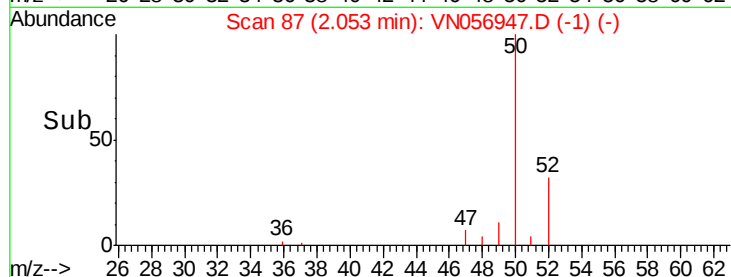
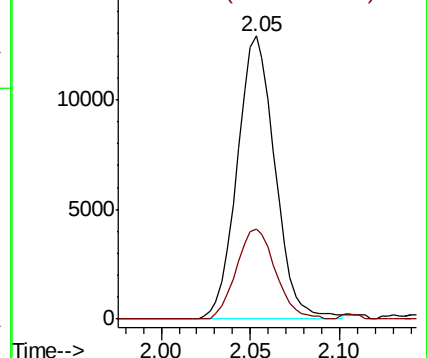
50 100

52 31.9 26.2 39.2



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO



#4

Vinyl Chloride

Concen: 2.323 ug/l

RT: 2.18 min Scan# 126

Delta R.T. 0.00 min

Lab File: VN056947.D

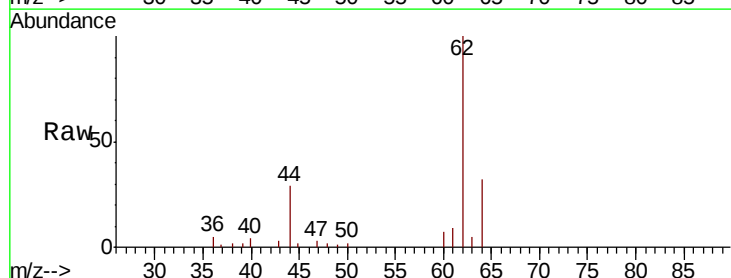
Acq: 26 Jul 2019 17:27

Tgt Ion: 62 Resp: 15343

Ion Ratio Lower Upper

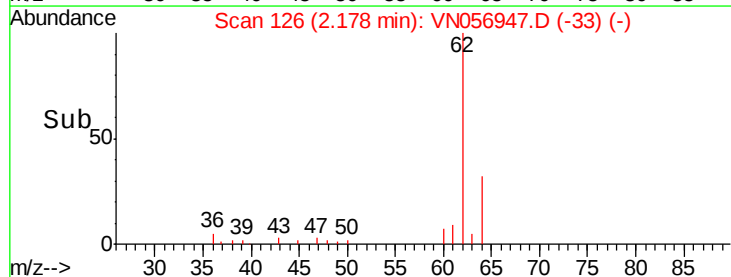
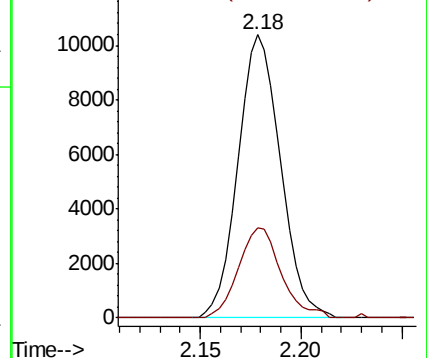
62 100

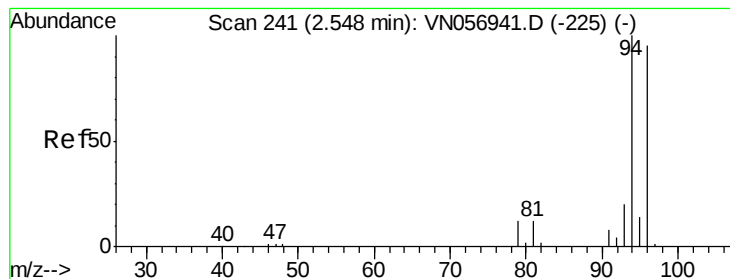
64 31.8 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VNO

Ion 63.90 (63.60 to 64.60): VNO





#5

Bromomethane

Concen: 3.312 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

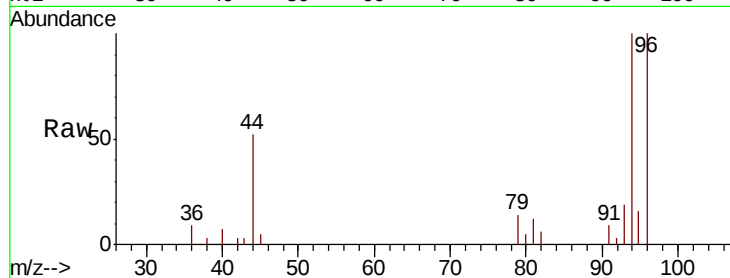
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 94 Resp: 13597

Ion Ratio Lower Upper

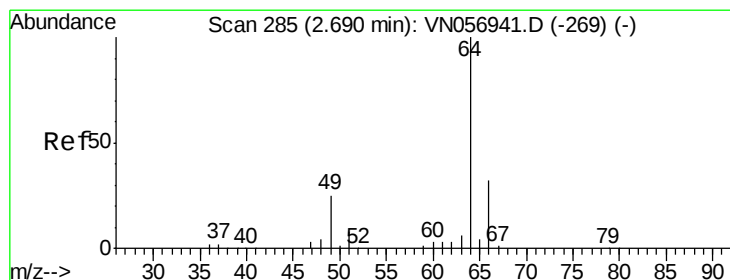
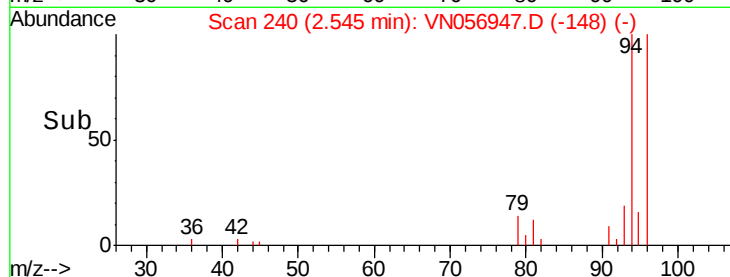
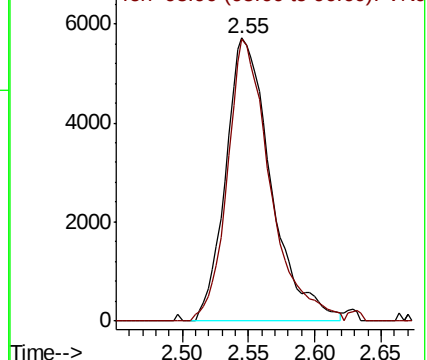
94 100

96 99.5 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 2.621 ug/l

RT: 2.69 min Scan# 284

Delta R.T. -0.00 min

Lab File: VN056947.D

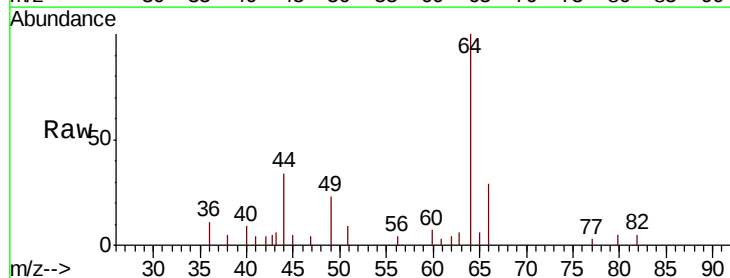
Acq: 26 Jul 2019 17:27

Tgt Ion: 64 Resp: 9542

Ion Ratio Lower Upper

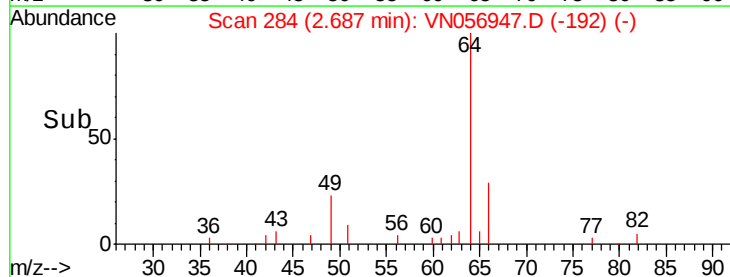
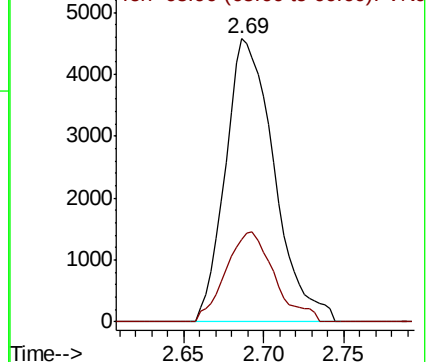
64 100

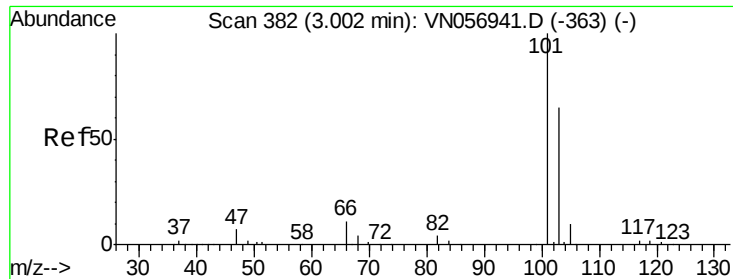
66 29.2 25.8 38.8



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0



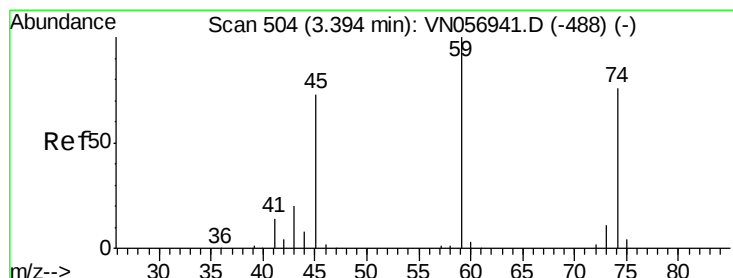
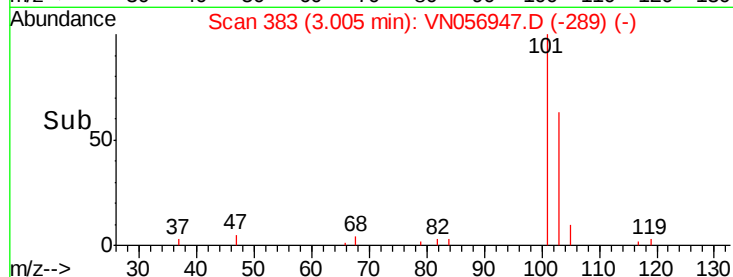
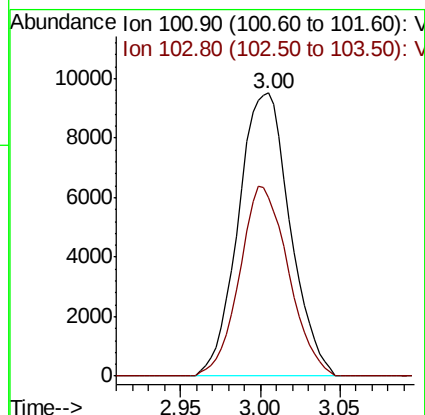
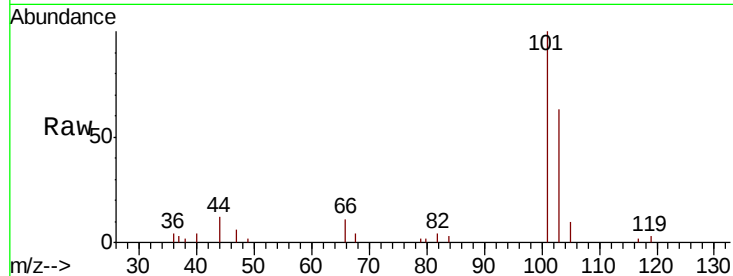


#7

Trichlorofluoromethane
 Concen: 2.438 ug/l
 RT: 3.00 min Scan# 383
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

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

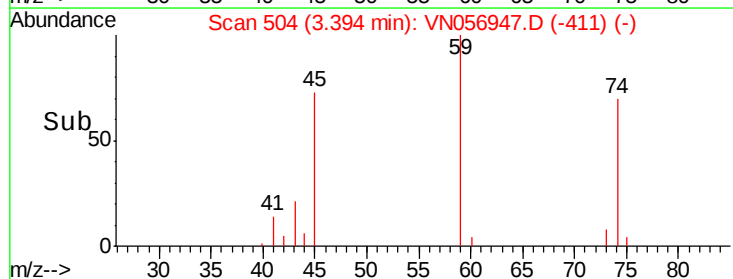
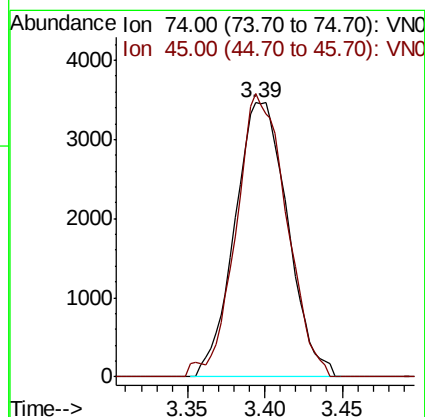
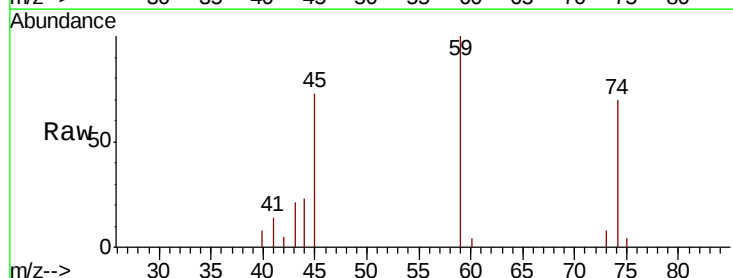
Tot Ion:101 Resp: 21079
 Ion Ratio Lower Upper
 101 100
 103 62.9 52.1 78.1

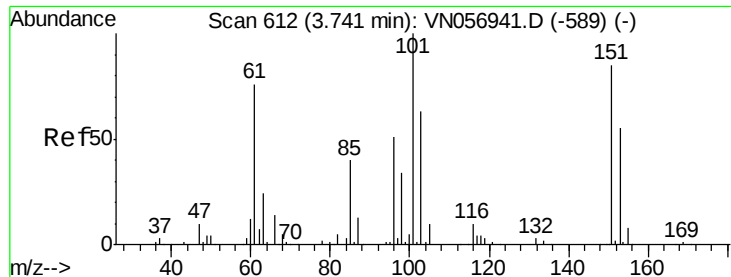


#8

Diethyl Ether
 Concen: 2.547 ug/l
 RT: 3.39 min Scan# 504
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

Tgt Ion: 74 Resp: 8239
 Ion Ratio Lower Upper
 74 100
 45 98.6 48.1 144.3





#9

1,1,2-Trichlorotrifluoroethane

Concen: 2.447 ug/l

RT: 3.74 min Scan# 613

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

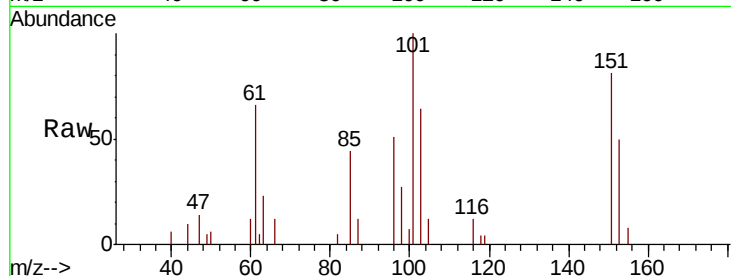
Tot Ion:101 Resp: 13113

Ion Ratio Lower Upper

101 100

85 41.5 32.3 48.5

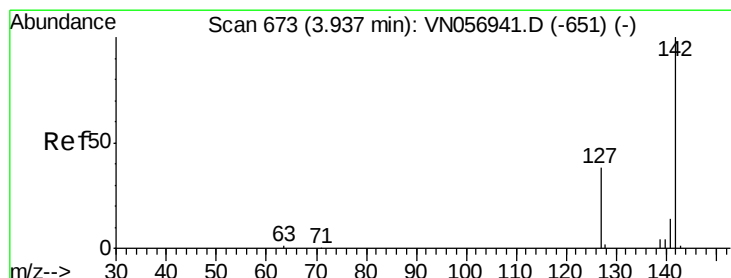
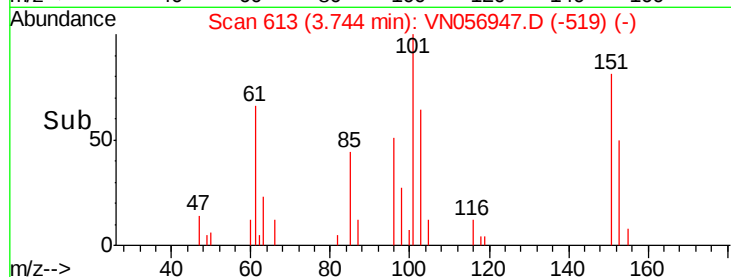
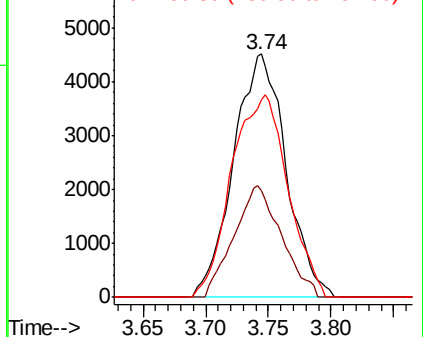
151 89.2 68.0 102.0



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 1.309 ug/l

RT: 3.94 min Scan# 673

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

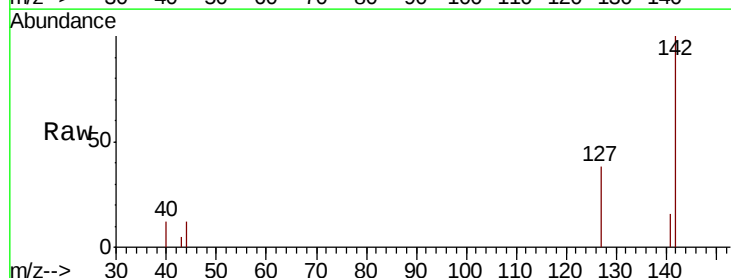
Tgt Ion:142 Resp: 9377

Ion Ratio Lower Upper

142 100

127 38.8 30.4 45.6

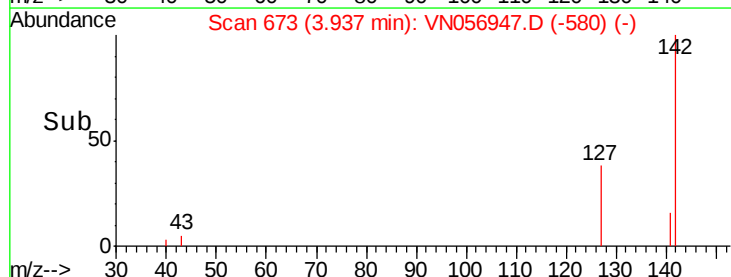
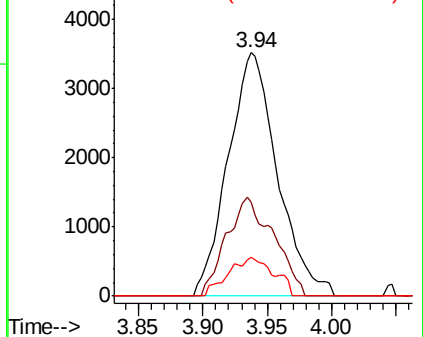
141 14.5 11.1 16.7

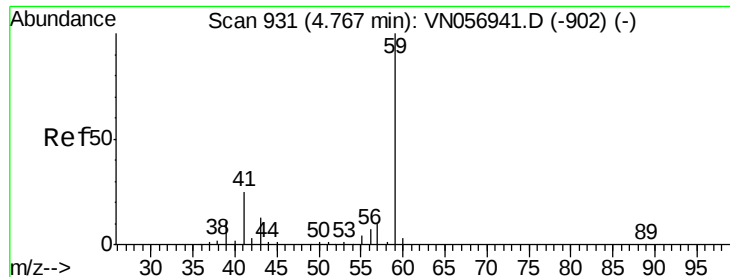


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



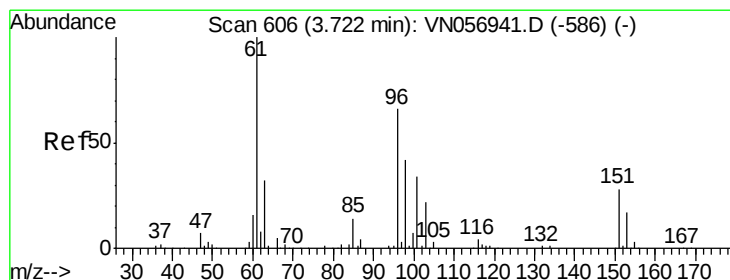
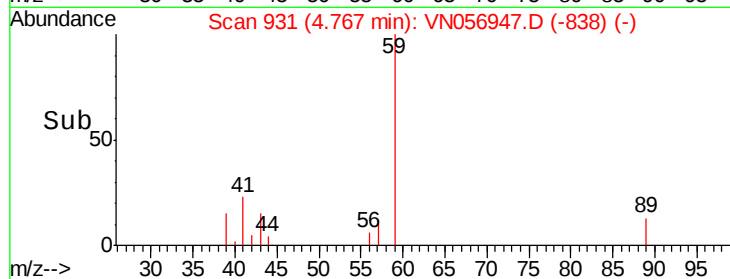
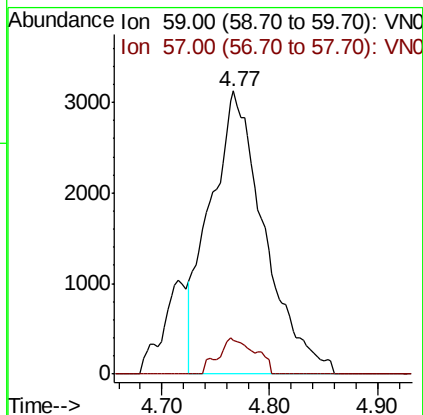
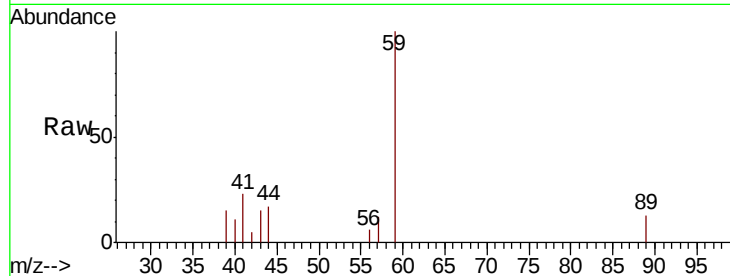


#11

Tert butyl alcohol
 Concen: 13.599 ug/l
 RT: 4.77 min Scan# 931
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

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

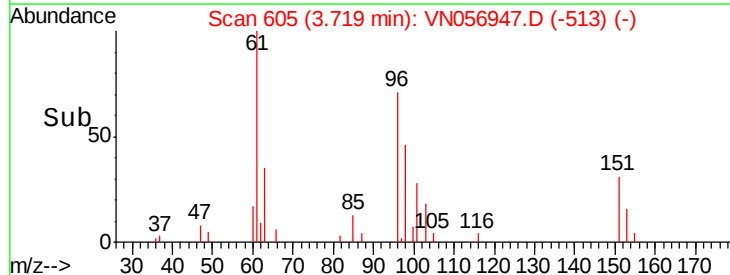
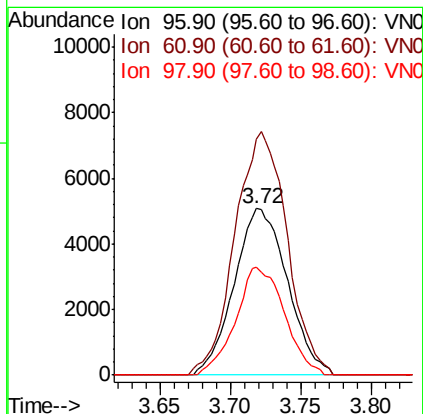
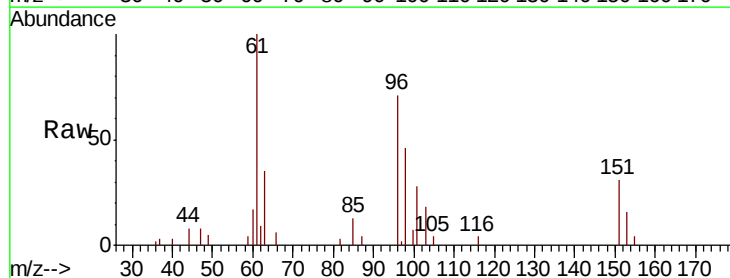
Tot Ion: 59 Resp: 10947
 Ion Ratio Lower Upper
 59 100
 57 7.5 7.5 11.3#

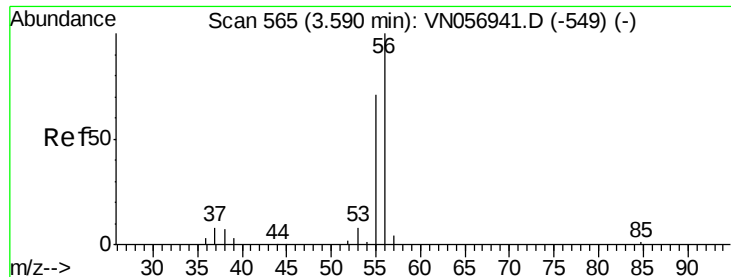


#12

1,1-Dichloroethene
 Concen: 2.625 ug/l
 RT: 3.72 min Scan# 605
 Delta R.T. -0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

Tgt Ion: 96 Resp: 13426
 Ion Ratio Lower Upper
 96 100
 61 141.7 121.8 182.8
 98 64.9 51.7 77.5





#13

Acrolein

Concen: 11.566 ug/l

RT: 3.60 min Scan# 567

Delta R.T. 0.01 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

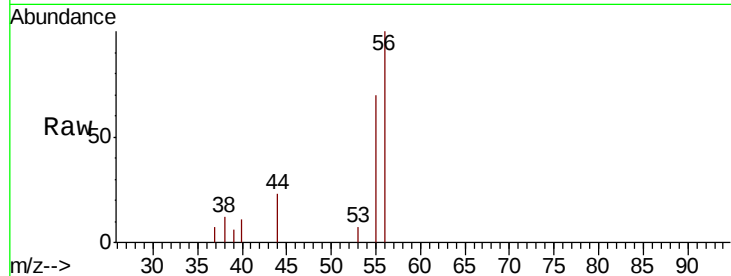
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 56 Resp: 5764

Ion Ratio Lower Upper

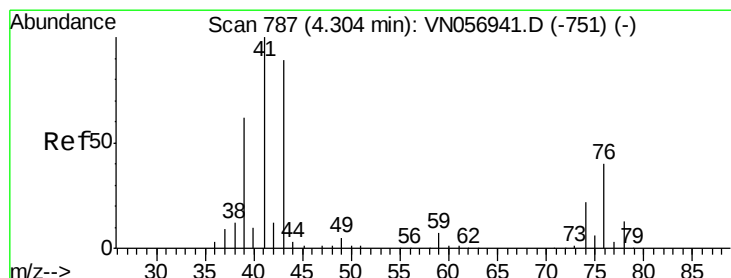
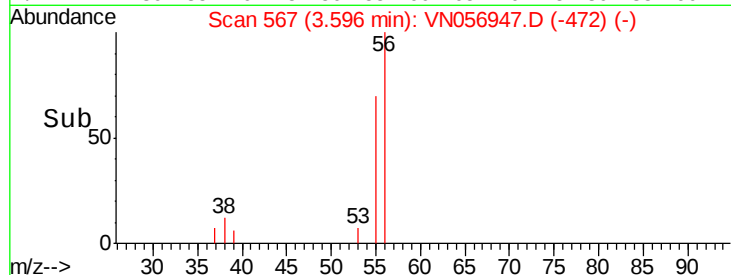
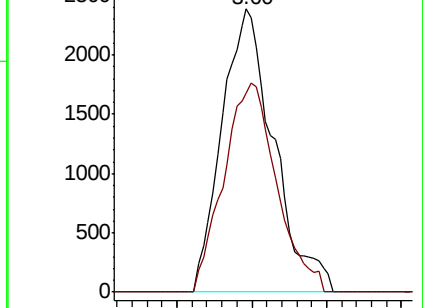
56 100

55 75.1 55.8 83.6



Abundance Ion 56.00 (55.70 to 56.70): VN056947.D (-549) (-)

Ion 55.00 (54.70 to 55.70): VN056947.D (-549) (-)



#14

Allyl chloride

Concen: 2.430 ug/l

RT: 4.30 min Scan# 786

Delta R.T. -0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

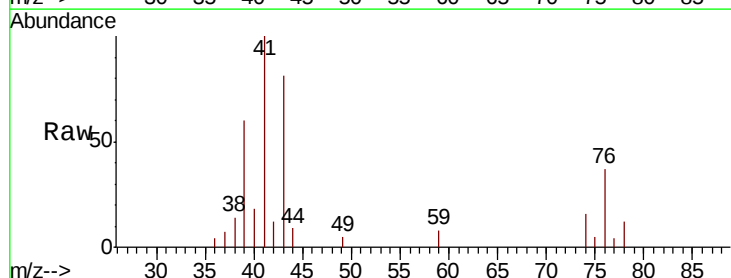
Tgt Ion: 41 Resp: 20215

Ion Ratio Lower Upper

41 100

39 61.2 46.4 69.6

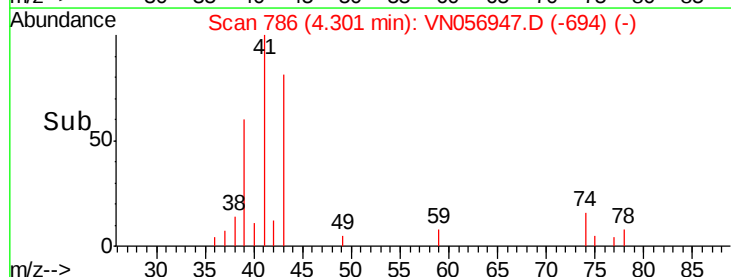
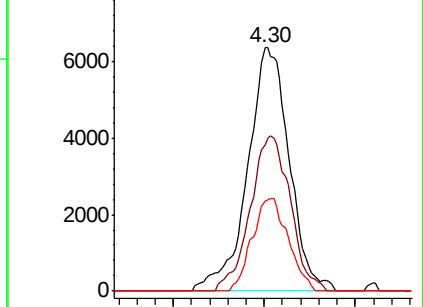
76 32.9 28.4 42.6

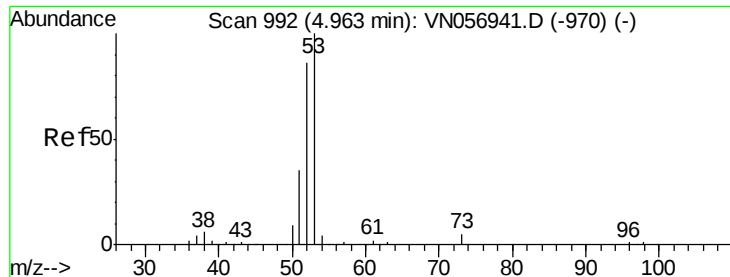


Abundance Ion 41.00 (40.70 to 41.70): VN056947.D (-694) (-)

Ion 39.00 (38.70 to 39.70): VN056947.D (-694) (-)

Ion 75.90 (75.60 to 76.60): VN056947.D (-694) (-)





#15

Acrylonitrile

Concen: 12.355 ug/l

RT: 4.98 min Scan# 996

Delta R.T. 0.01 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

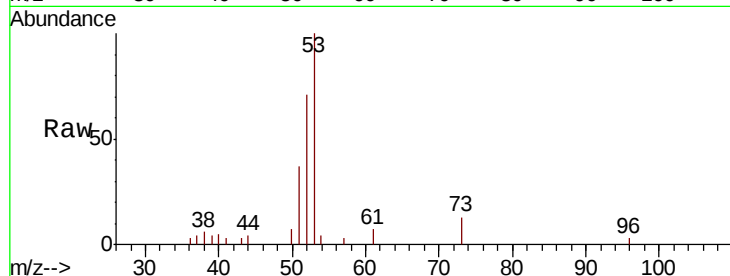
Tot Ion: 53 Resp: 29168

Ion Ratio Lower Upper

53 100

52 81.9 66.5 99.7

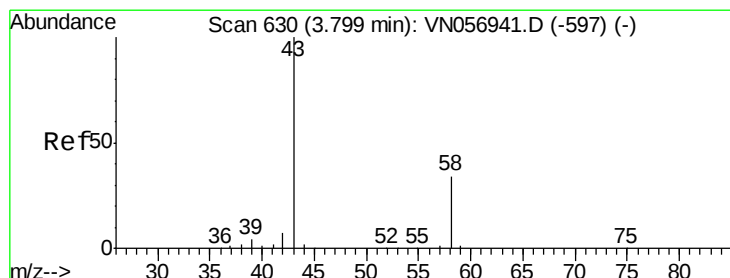
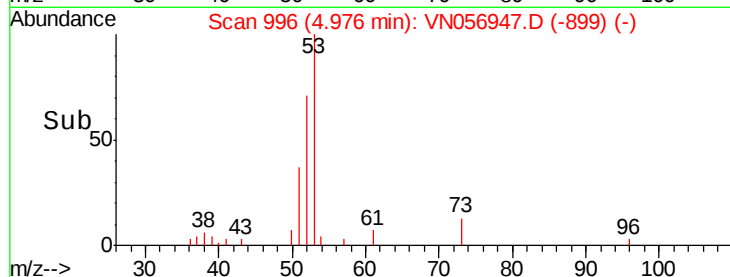
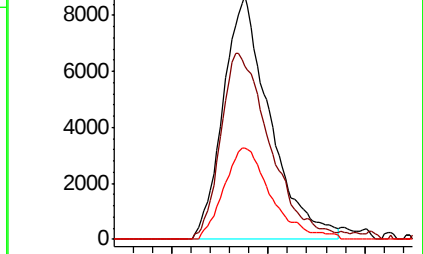
51 37.1 28.4 42.6



Abundance Ion 53.00 (52.70 to 53.70): VN056947.D (-970) (-)

Ion 52.00 (51.70 to 52.70): VN056947.D (-970) (-)

Ion 51.00 (50.70 to 51.70): VN056947.D (-970) (-)



#16

Acetone

Concen: 12.033 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN056947.D

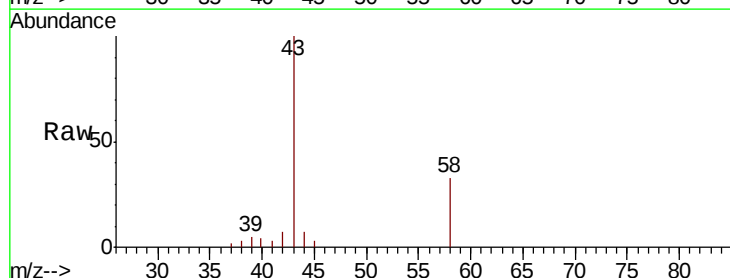
Acq: 26 Jul 2019 17:27

Tgt Ion: 43 Resp: 25963

Ion Ratio Lower Upper

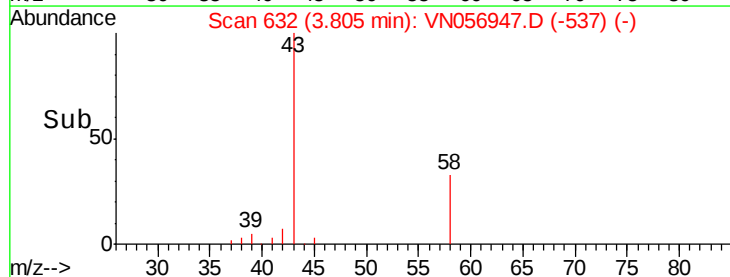
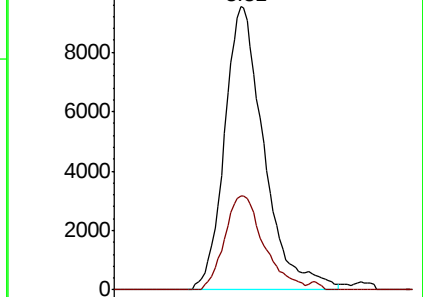
43 100

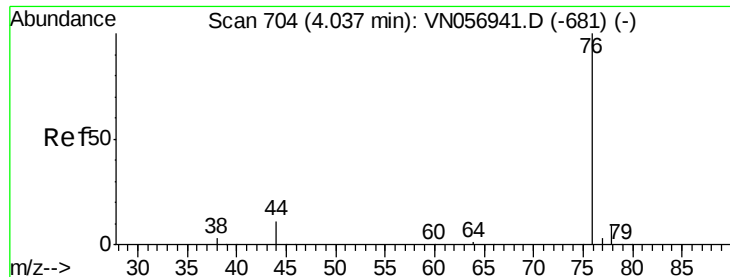
58 33.2 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN056947.D (-537) (-)

Ion 58.00 (57.70 to 58.70): VN056947.D (-537) (-)

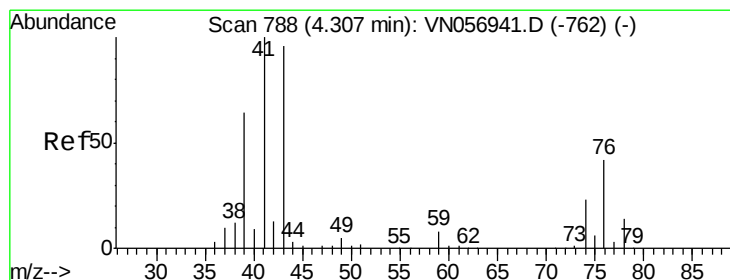
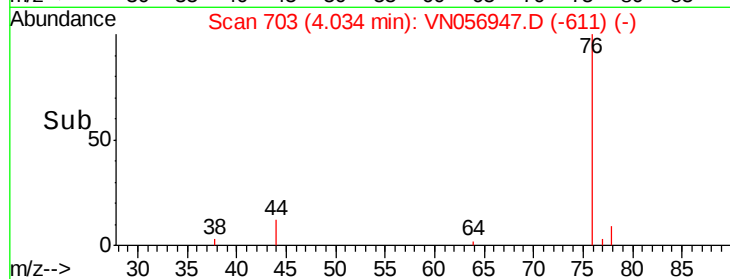
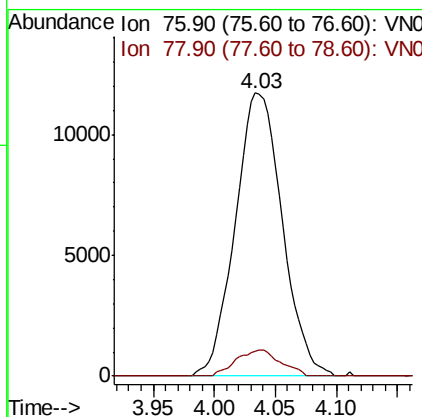
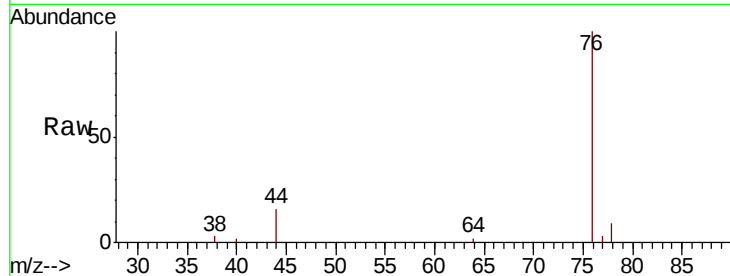




#17
Carbon Disulfide
Concen: 2.302 ug/l
RT: 4.03 min Scan# 703
Delta R.T. -0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

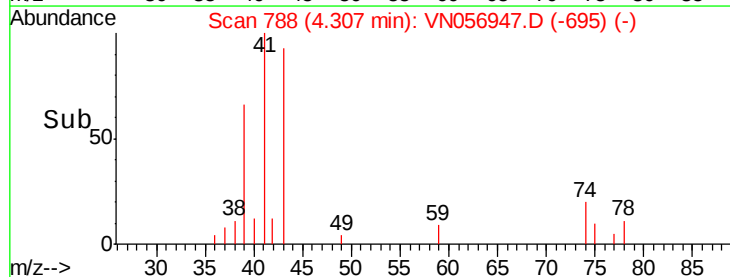
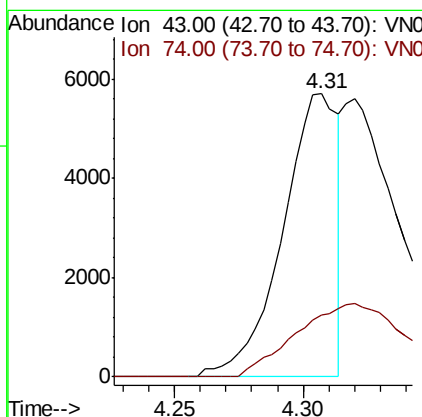
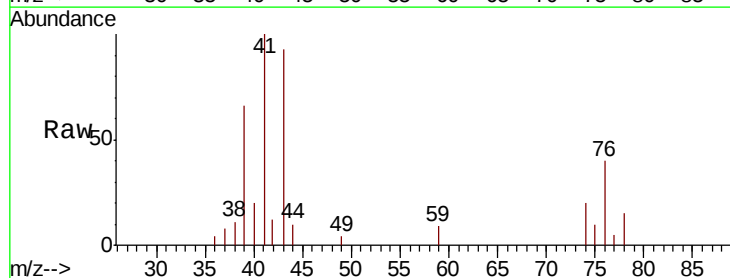
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

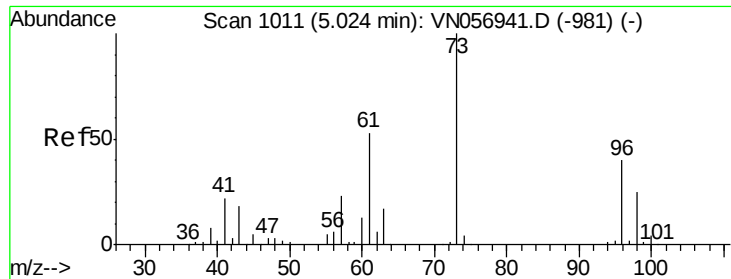
Tot Ion: 76 Resp: 31282
Ion Ratio Lower Upper
76 100
78 9.0 7.2 10.8



#18
Methyl Acetate
Concen: 1.234 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion: 43 Resp: 8495
Ion Ratio Lower Upper
43 100
74 51.4 19.7 29.5#

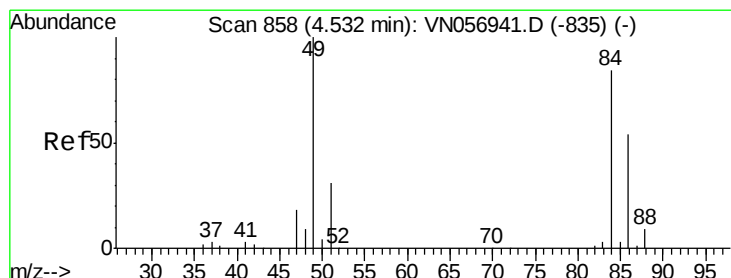
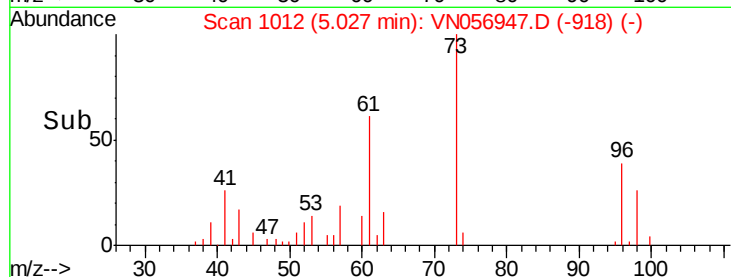
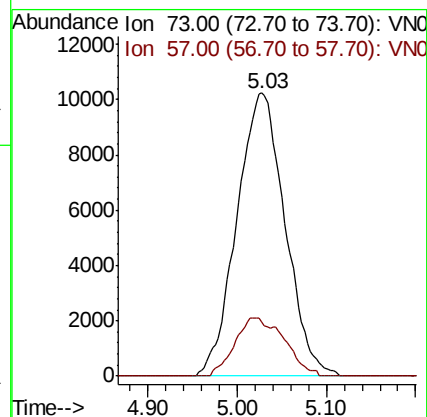
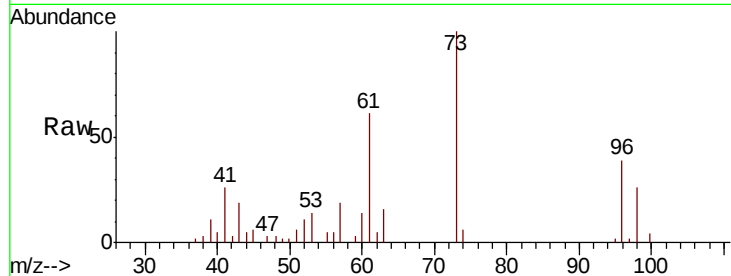




#19
Methvl tert-butvl Ether
Concen: 2.513 ug/l
RT: 5.03 min Scan# 1012
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

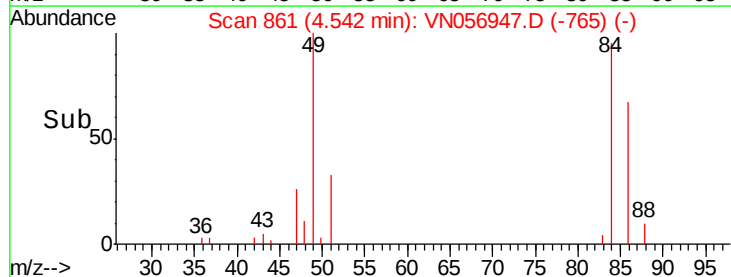
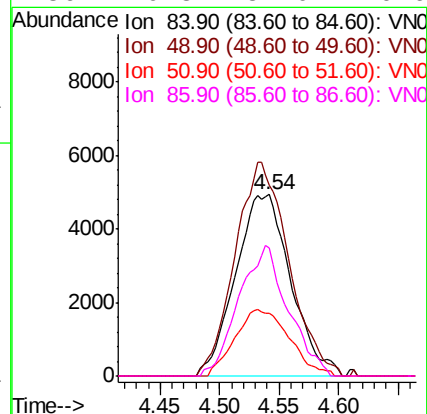
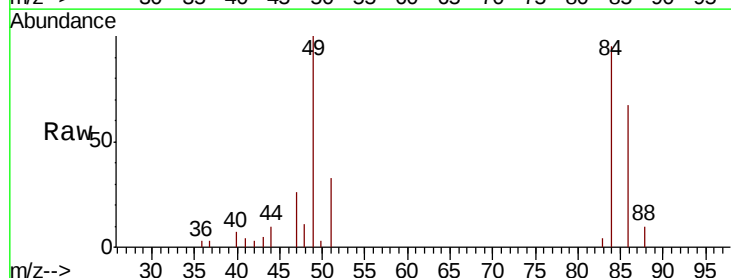
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

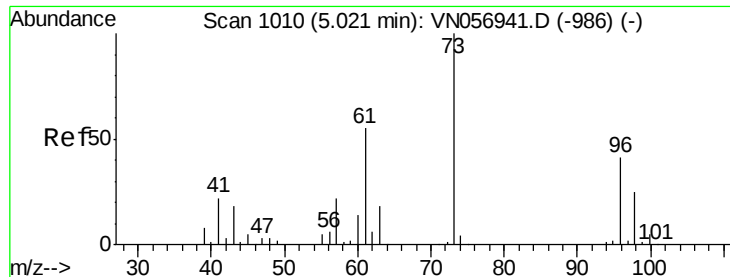
Tot Ion: 73 Resp: 38314
Ion Ratio Lower Upper
73 100
57 19.3 18.3 27.5



#20
Methylene Chloride
Concen: 2.552 ug/l
RT: 4.54 min Scan# 861
Delta R.T. 0.01 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion: 84 Resp: 15859
Ion Ratio Lower Upper
84 100
49 105.2 95.2 142.8
51 34.2 29.7 44.5
86 70.8 51.0 76.6

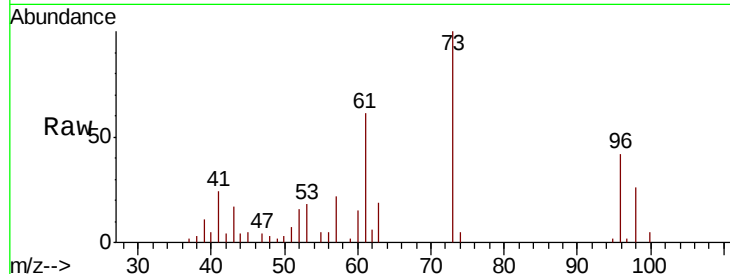




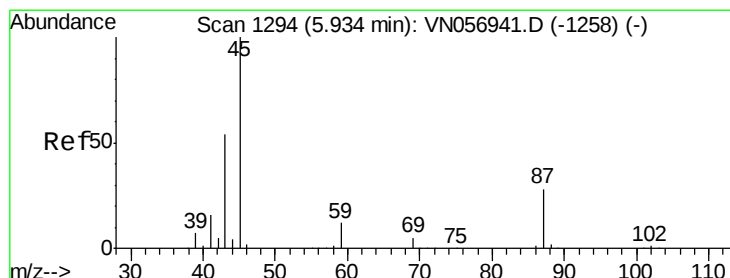
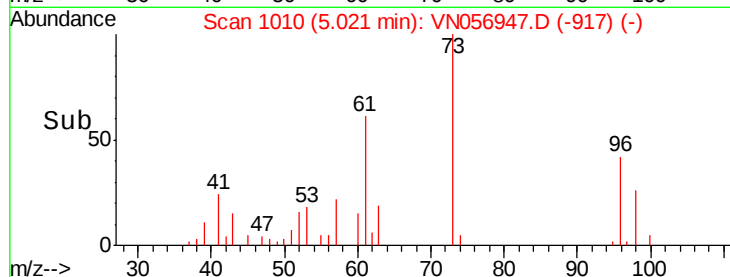
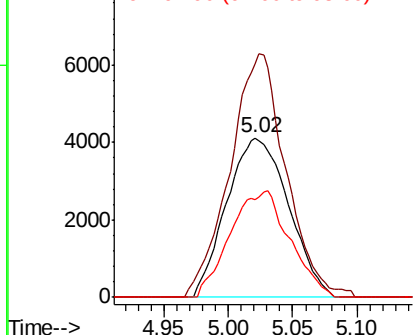
#21
trans-1,2-Dichloroethene
Concen: 2.537 ug/l
RT: 5.02 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

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

Tot Ion: 96 Resp: 13780
Ion Ratio Lower Upper
96 100
61 141.3 107.5 161.3
98 61.5 49.9 74.9

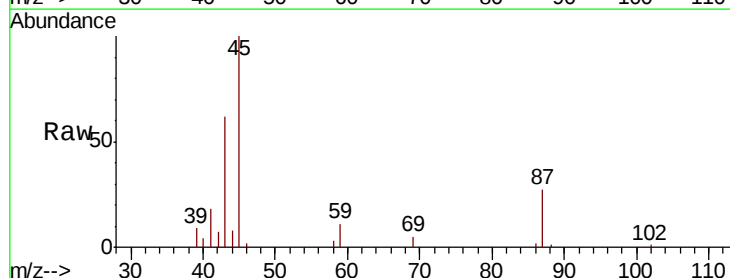


Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0

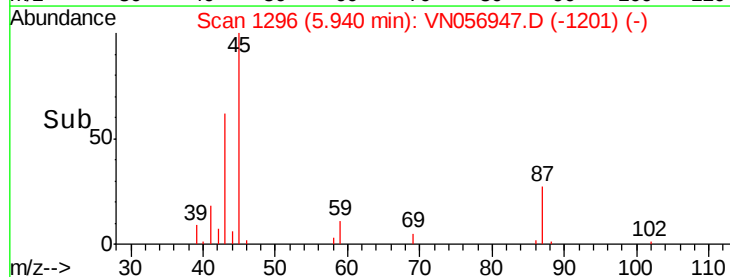
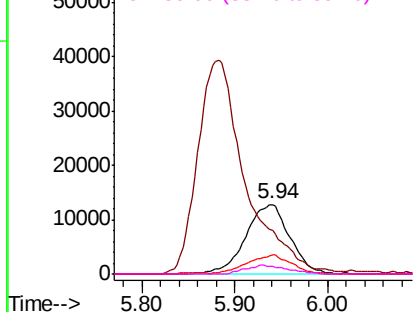


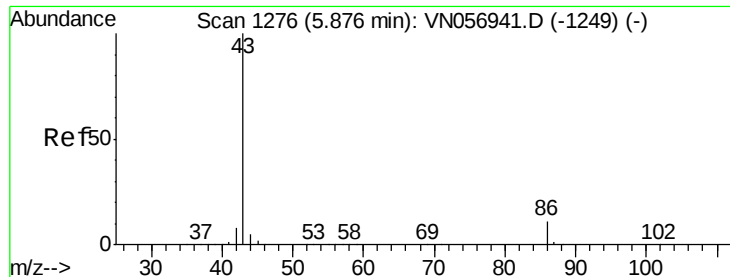
#22
Diisopropyl ether
Concen: 2.469 ug/l
RT: 5.94 min Scan# 1296
Delta R.T. 0.01 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion: 45 Resp: 42316
Ion Ratio Lower Upper
45 100
43 57.8 44.7 67.1
87 26.7 23.0 34.6
59 11.0 9.8 14.8



Abundance Ion 45.00 (44.70 to 45.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 87.00 (86.70 to 87.70): VN0
Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 11.874 ug/l

RT: 5.88 min Scan# 1278

Delta R.T. 0.01 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

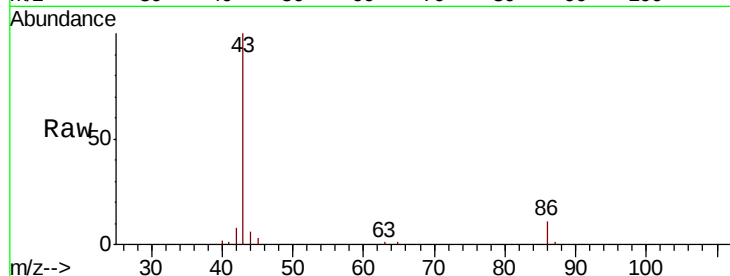
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 43 Resp: 141015

Ion Ratio Lower Upper

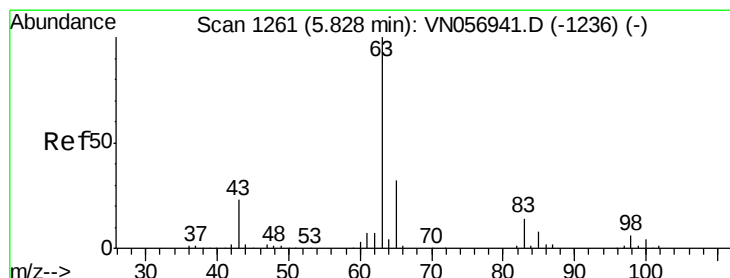
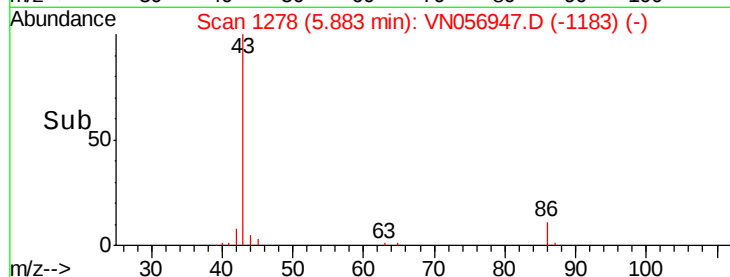
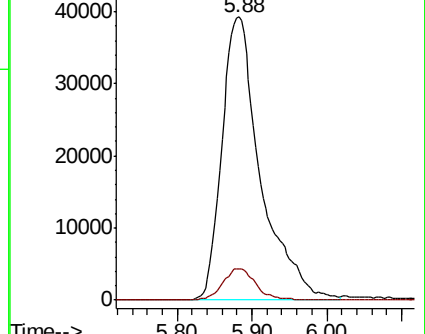
43 100

86 11.2 8.5 12.7



Abundance Ion 43.00 (42.70 to 43.70): VN056947.D (-1278) (-)

Ion 86.00 (85.70 to 86.70): VN056947.D (-1278) (-)



#24

1,1-Dichloroethane

Concen: 2.513 ug/l

RT: 5.83 min Scan# 1263

Delta R.T. 0.01 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

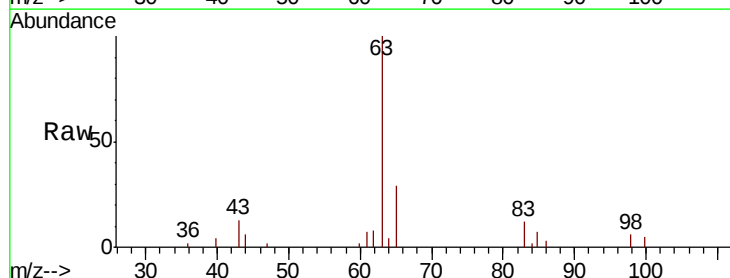
Tgt Ion: 63 Resp: 25409

Ion Ratio Lower Upper

63 100

98 6.5 3.2 9.6

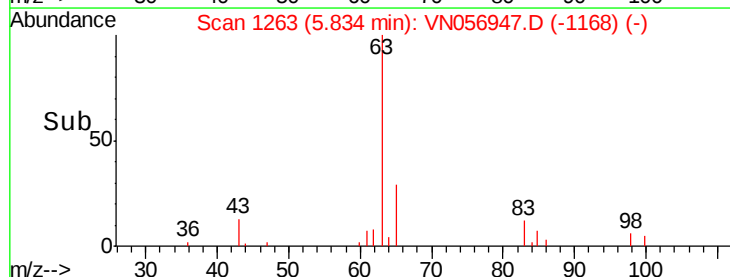
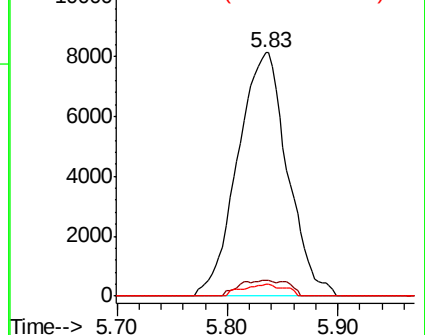
100 4.8 2.1 6.3

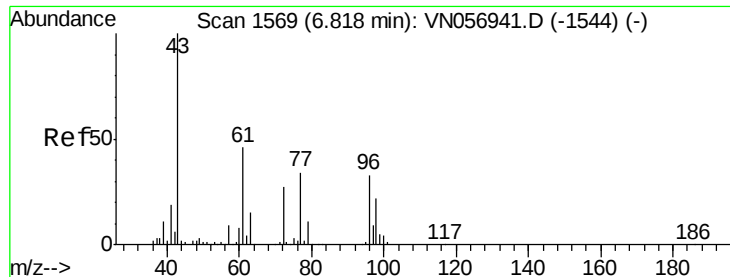


Abundance Ion 62.90 (62.60 to 63.60): VN056947.D (-1263) (-)

Ion 97.90 (97.60 to 98.60): VN056947.D (-1263) (-)

Ion 99.90 (99.60 to 100.60): VN056947.D (-1263) (-)

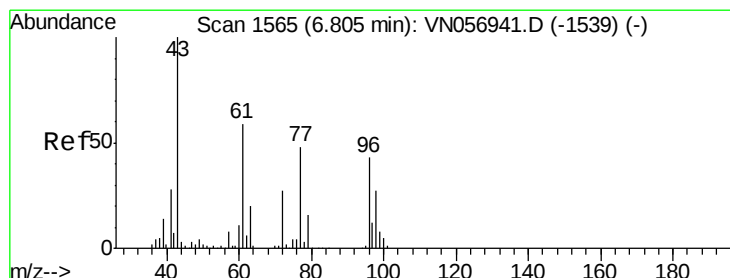
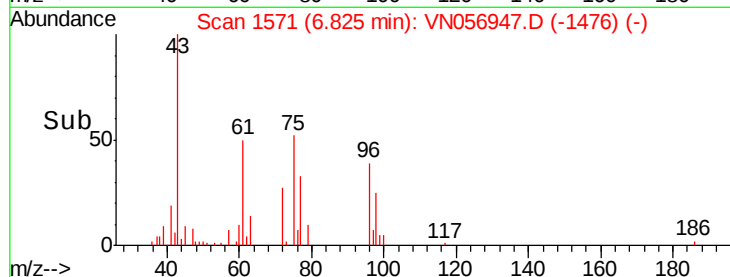
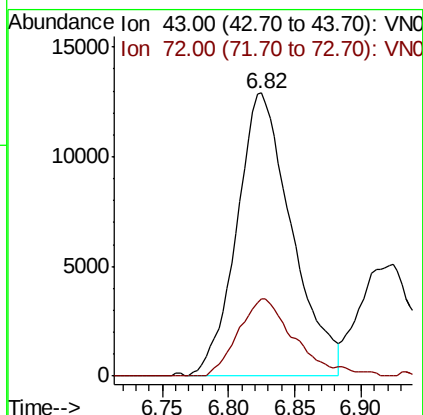
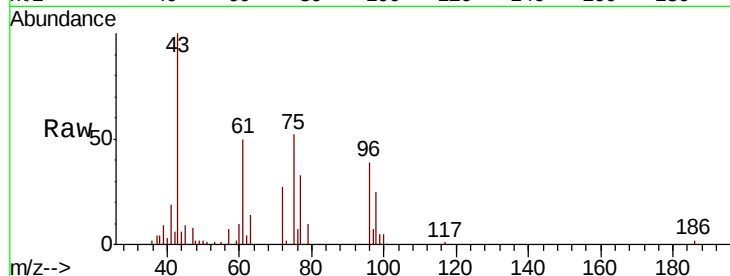




#25
2-Butanone
Concen: 12.180 ug/l
RT: 6.82 min Scan# 1571
Delta R.T. 0.01 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

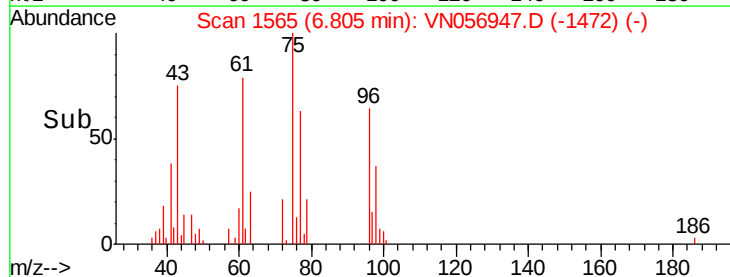
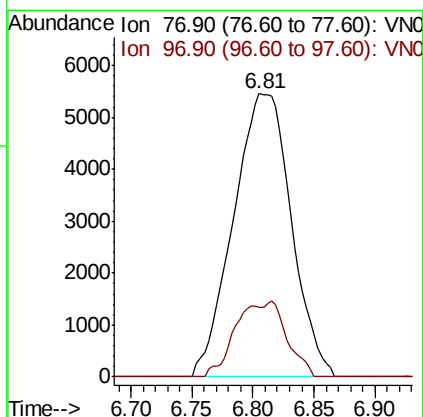
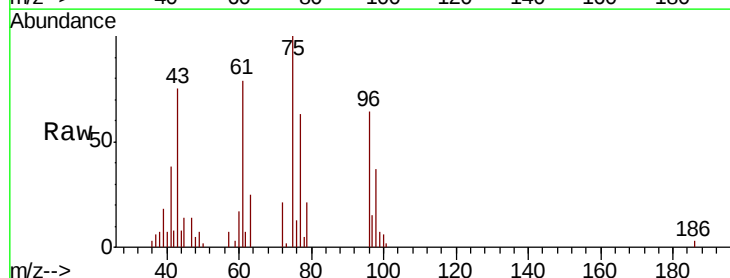
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

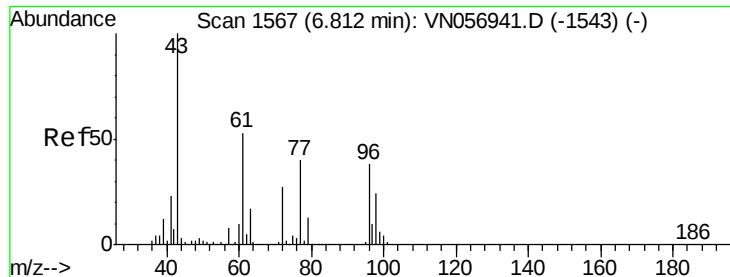
Tot Ion: 43 Resp: 37265
Ion Ratio Lower Upper
43 100
72 27.3 21.5 32.3



#26
2,2-Dichloropropane
Concen: 2.335 ug/l
RT: 6.81 min Scan# 1565
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion: 77 Resp: 17958
Ion Ratio Lower Upper
77 100
97 12.1 12.2 36.6#





#27

cis-1,2-Dichloroethene

Concen: 2.596 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

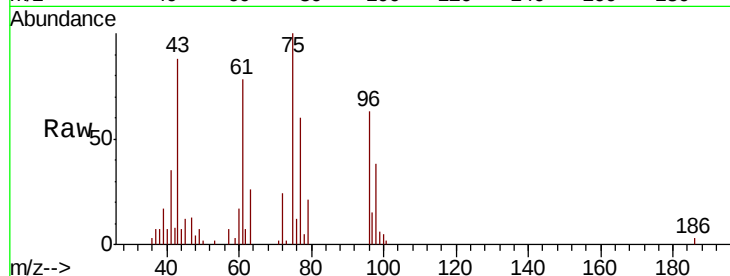
Tot Ion: 96 Resp: 16676

Ion Ratio Lower Upper

96 100

61 138.8 0.0 277.2

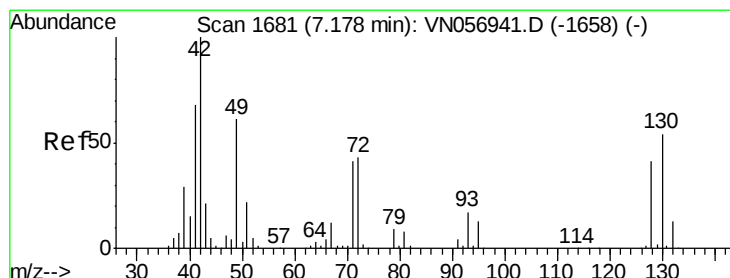
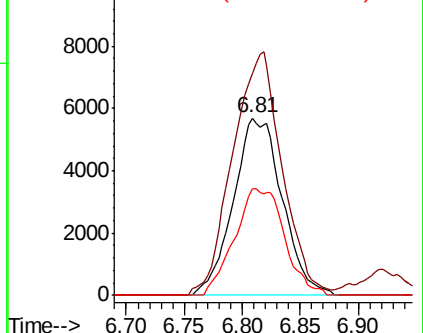
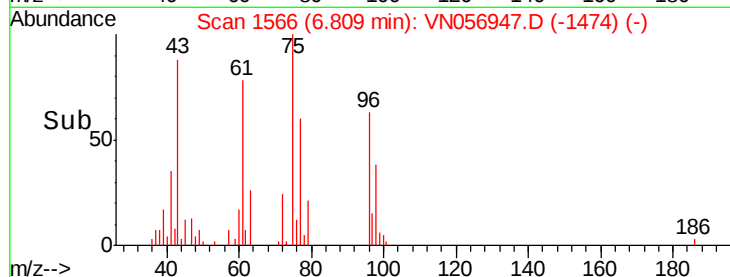
98 61.1 0.0 128.4



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#28

Bromochloromethane

Concen: 2.519 ug/l

RT: 7.18 min Scan# 1682

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

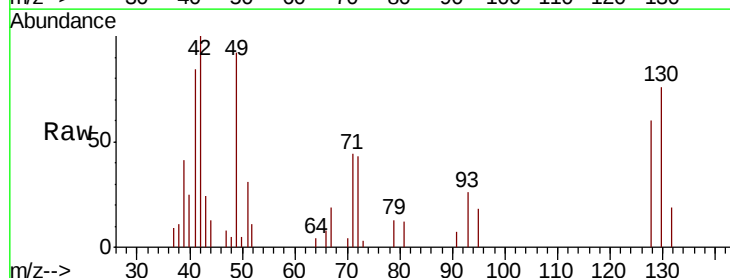
Tgt Ion: 49 Resp: 11972

Ion Ratio Lower Upper

49 100

129 0.6 0.0 4.6

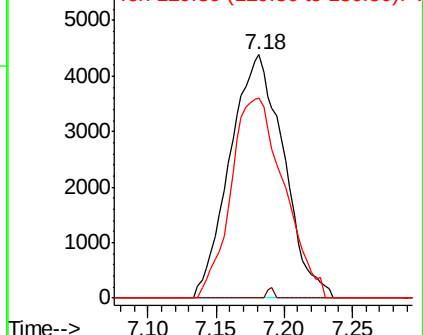
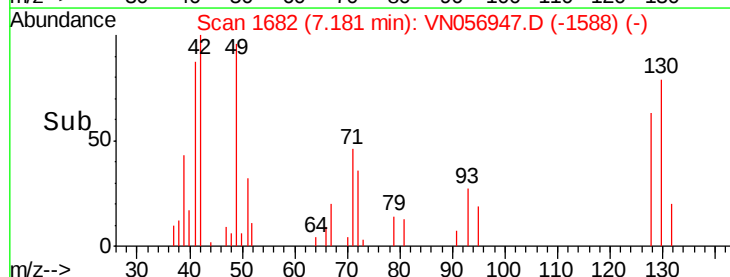
130 81.3 69.0 103.4

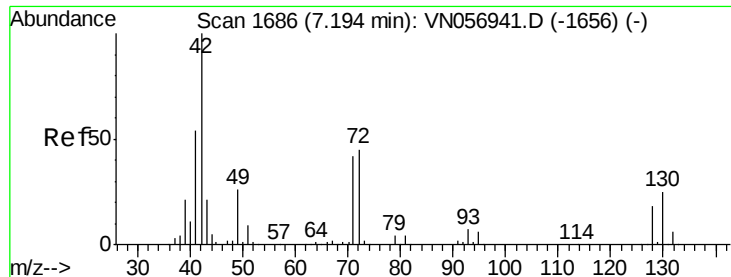


Abundance Ion 48.90 (48.60 to 49.60): VN0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

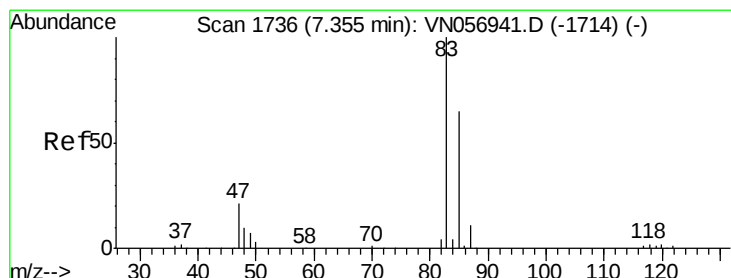
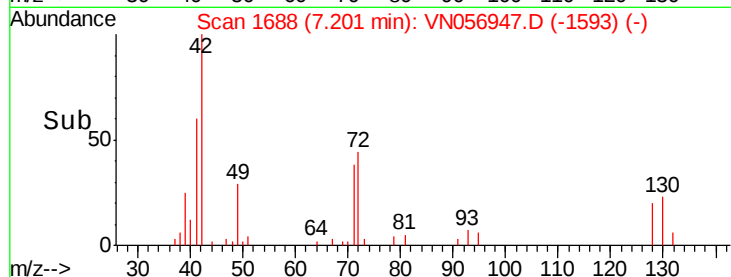
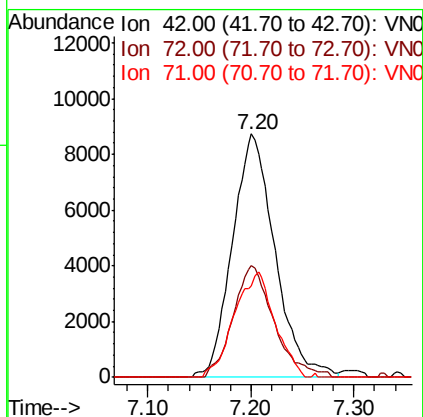
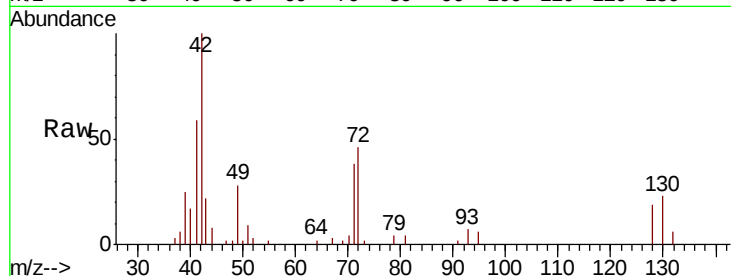




#29
Tetrahydrofuran
Concen: 12.567 ug/l
RT: 7.20 min Scan# 1688
Delta R.T. 0.01 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

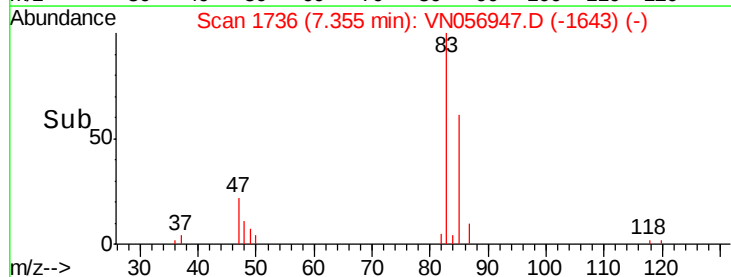
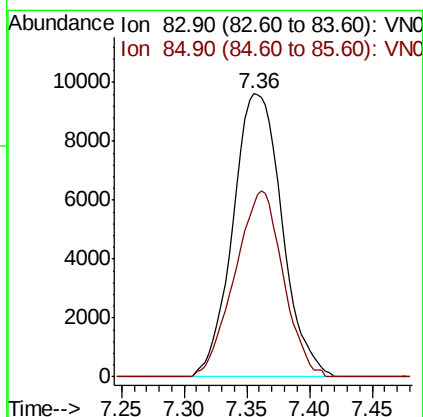
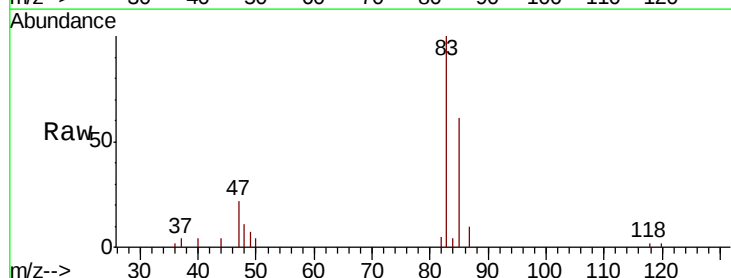
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

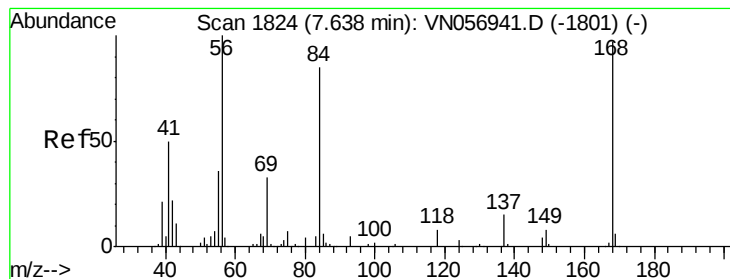
Tot Ion: 42 Resp: 25085
Ion Ratio Lower Upper
42 100
72 44.0 35.6 53.4
71 41.1 33.5 50.3



#30
Chloroform
Concen: 2.537 ug/l
RT: 7.36 min Scan# 1736
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion: 83 Resp: 26236
Ion Ratio Lower Upper
83 100
85 60.8 52.2 78.2





#31

Cyclohexane

Concen: 3.073 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

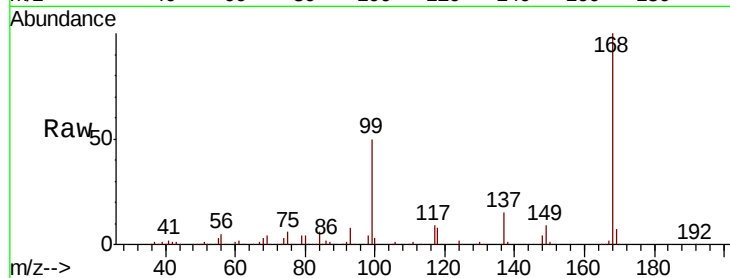
Tot Ion: 56 Resp: 30076

Ion Ratio Lower Upper

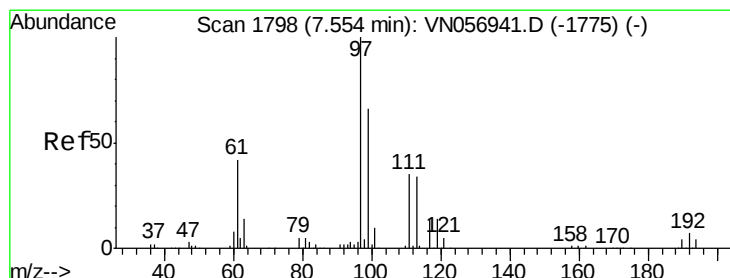
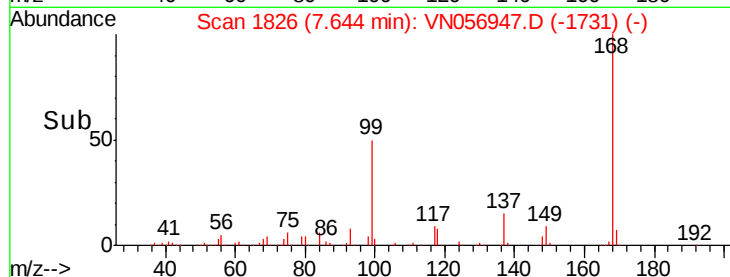
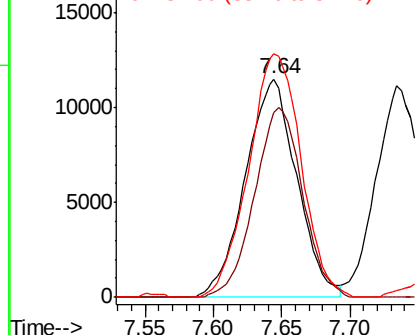
56 100

69 84.7 26.2 39.2#

84 111.6 68.2 102.2#



Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC



#32

1,1,1-Trichloroethane

Concen: 2.460 ug/l

RT: 7.55 min Scan# 1797

Delta R.T. -0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

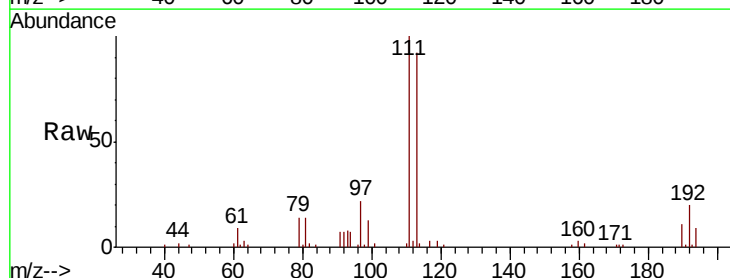
Tgt Ion: 97 Resp: 20297

Ion Ratio Lower Upper

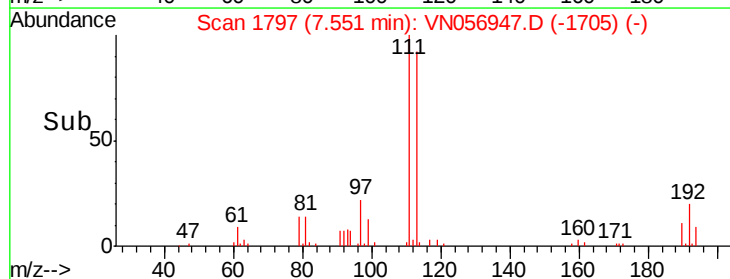
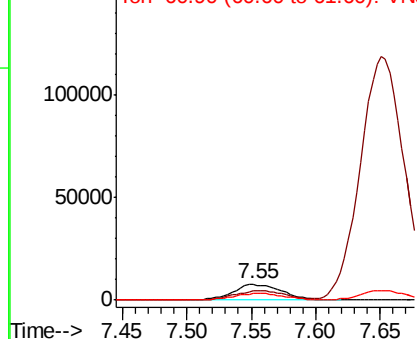
97 100

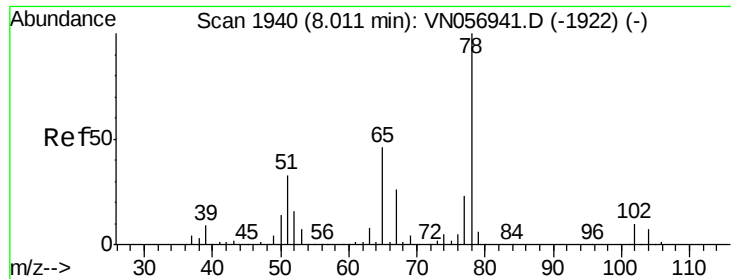
99 61.2 52.3 78.5

61 43.1 33.9 50.9



Abundance Ion 96.90 (96.60 to 97.60): VNC
Ion 98.90 (98.60 to 99.60): VNC
Ion 60.90 (60.60 to 61.60): VNC

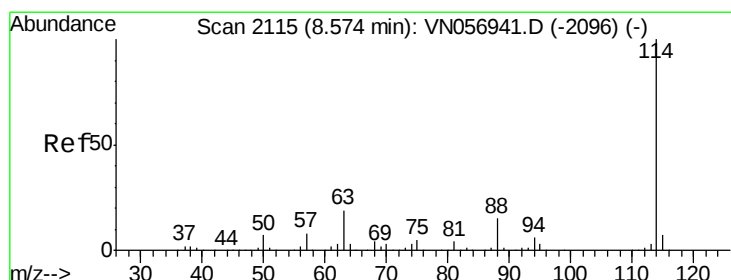
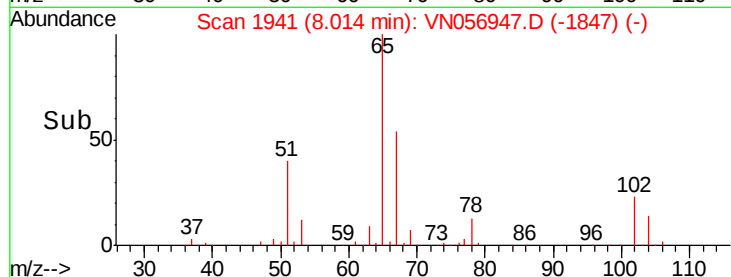
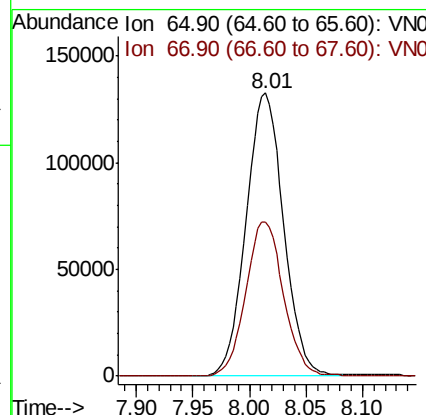
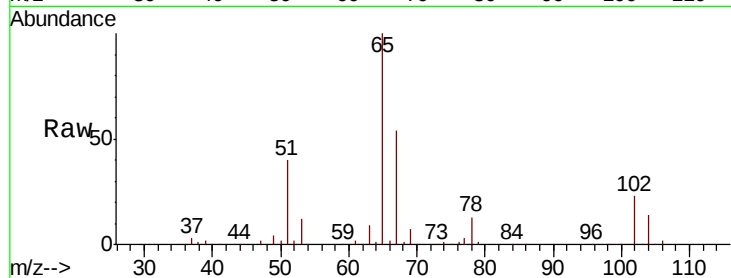




#33
 1,2-Dichloroethane-d4
 Concen: 51.410 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

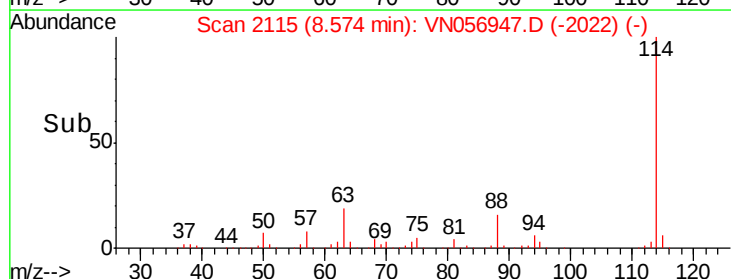
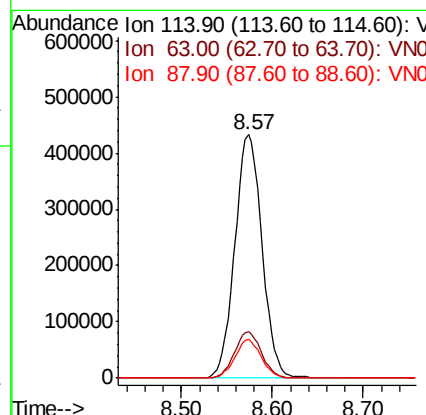
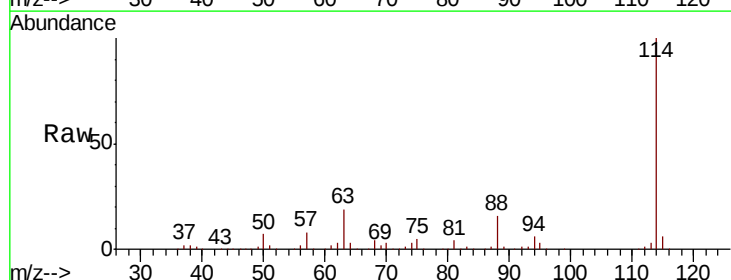
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

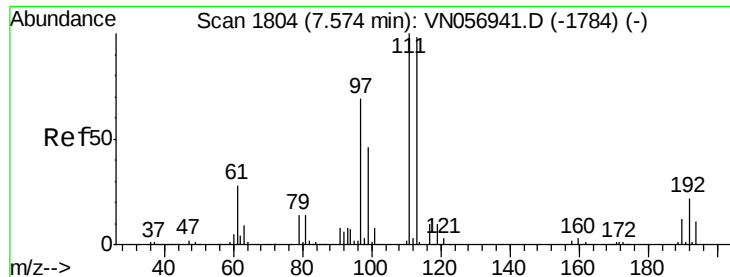
Tot Ion: 65 Resp: 306180
 Ion Ratio Lower Upper
 65 100
 67 54.8 0.0 112.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

Tgt Ion: 114 Resp: 899085
 Ion Ratio Lower Upper
 114 100
 63 18.8 0.0 38.0
 88 15.7 0.0 30.0

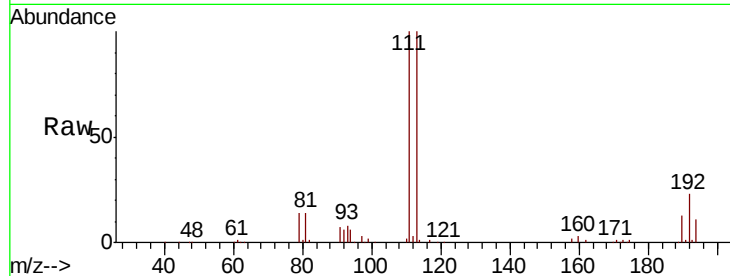




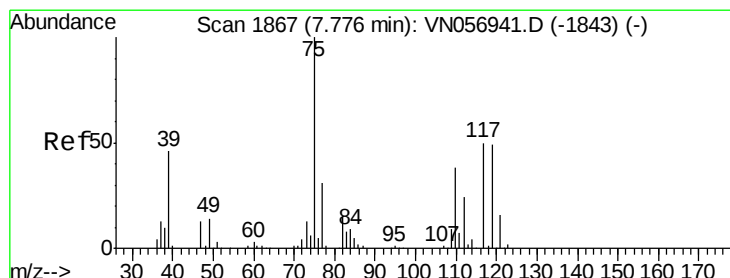
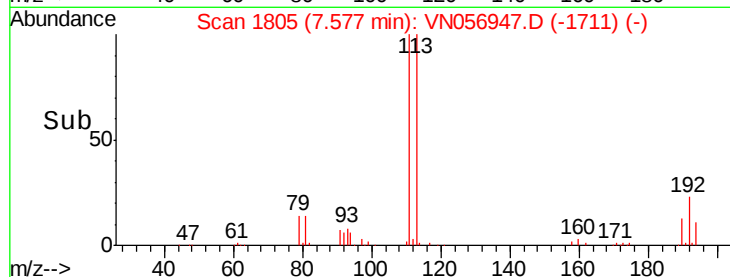
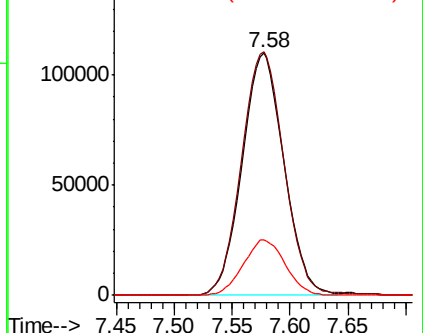
#35
 Dibromofluoromethane
 Concen: 47.974 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

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

Tot Ion:113 Resp: 276119
 Ion Ratio Lower Upper
 113 100
 111 102.7 82.0 123.0
 192 23.1 18.4 27.6

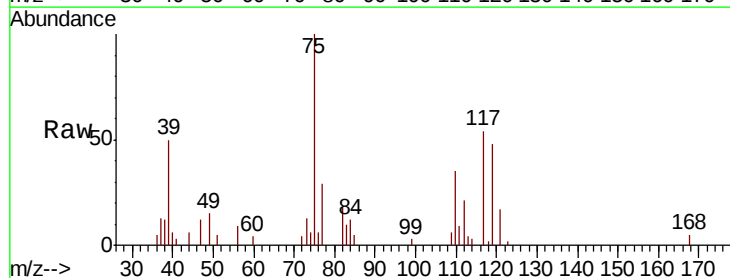


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

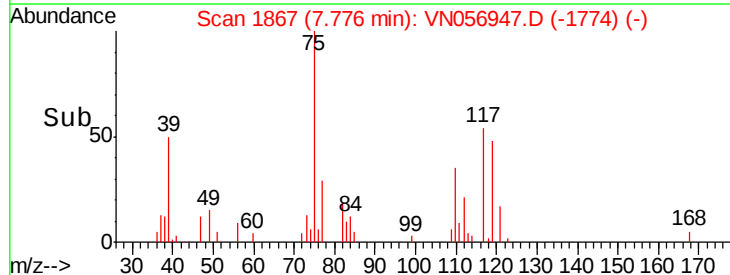
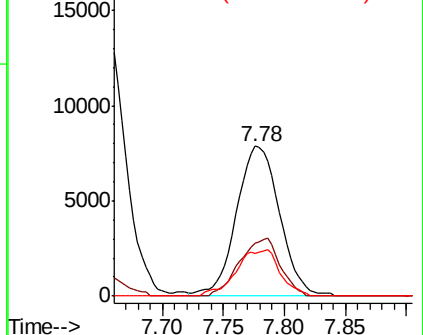


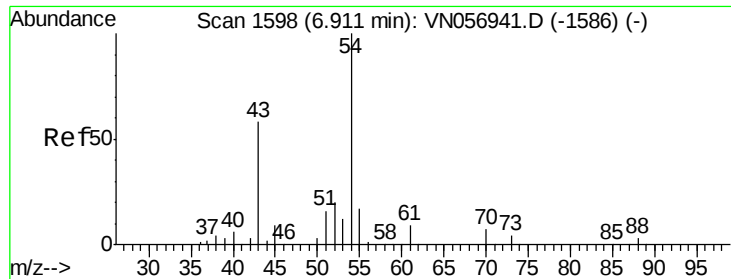
#36
 1,1-Dichloropropene
 Concen: 2.448 ug/l
 RT: 7.78 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

Tgt Ion: 75 Resp: 19370
 Ion Ratio Lower Upper
 75 100
 110 35.9 18.6 55.8
 77 31.2 25.2 37.8



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

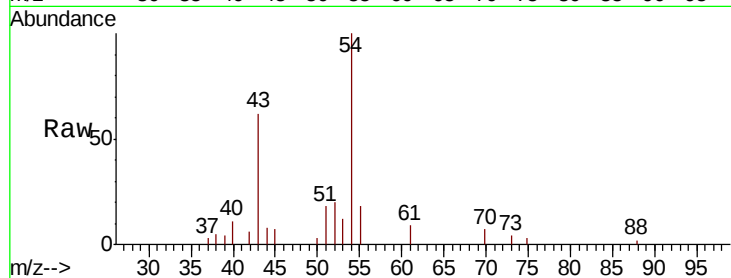




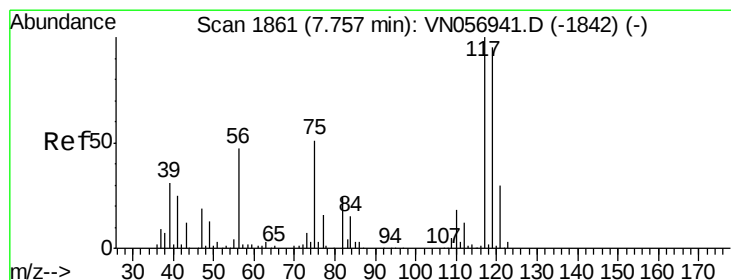
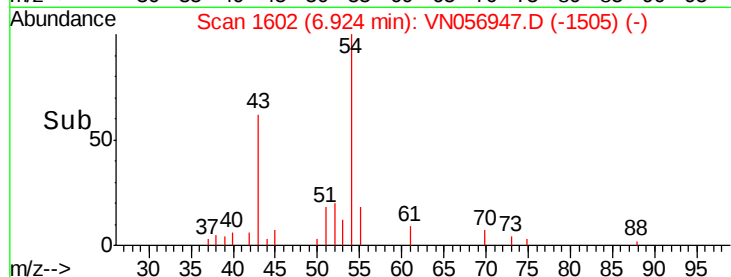
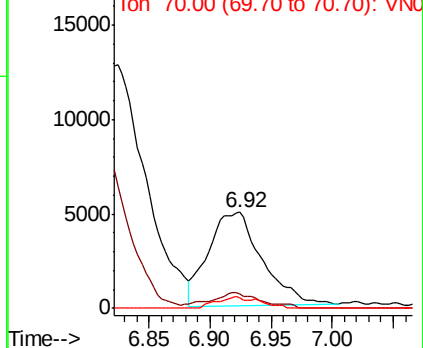
#37
Ethyl Acetate
Concen: 2.384 ug/l
RT: 6.92 min Scan# 1602
Delta R.T. 0.01 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

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

Tot Ion: 43 Resp: 15107
Ion Ratio Lower Upper
43 100
61 10.0 11.8 17.6#
70 6.7 8.5 12.7#

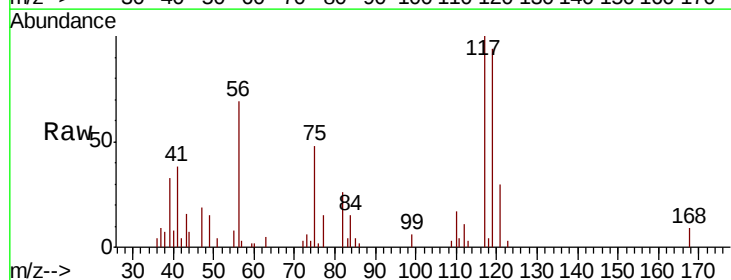


Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 70.00 (69.70 to 70.70): VN0

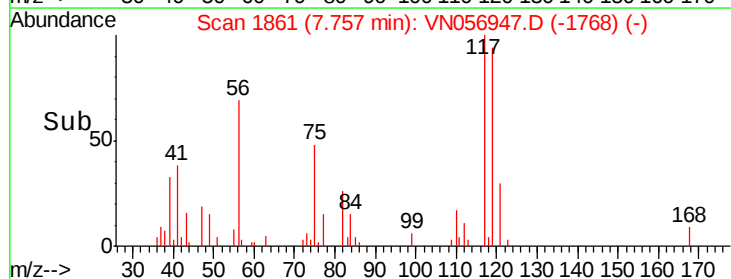
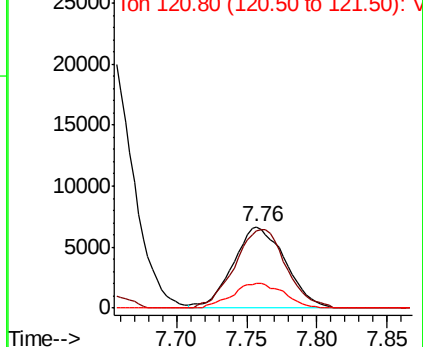


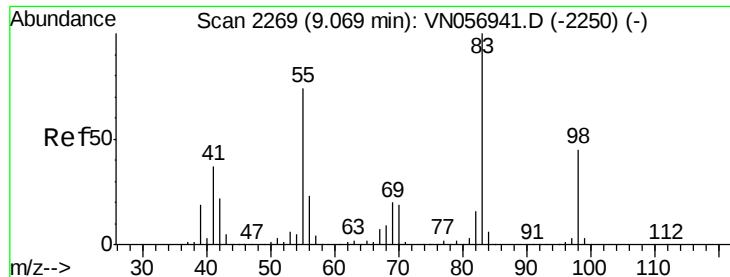
#38
Carbon Tetrachloride
Concen: 2.296 ug/l
RT: 7.76 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion: 117 Resp: 17181
Ion Ratio Lower Upper
117 100
119 94.4 75.3 112.9
121 30.3 24.2 36.4



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

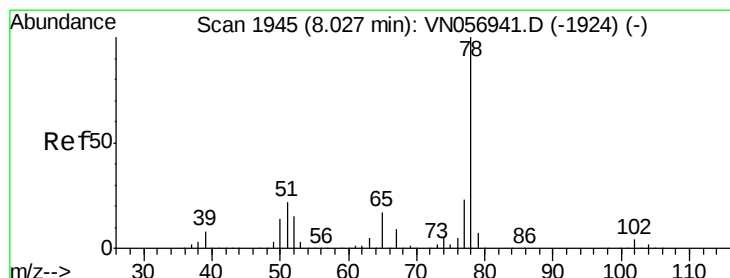
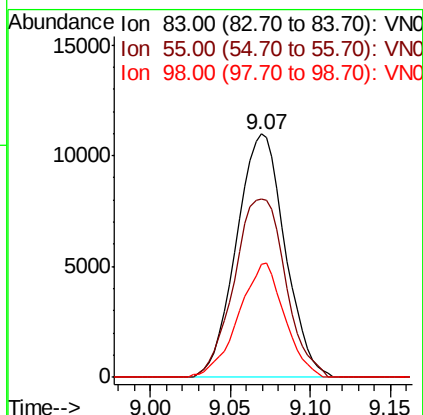
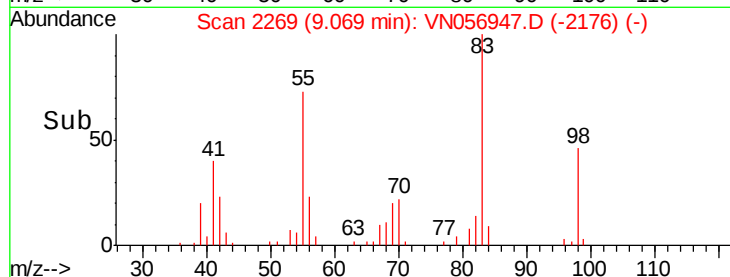
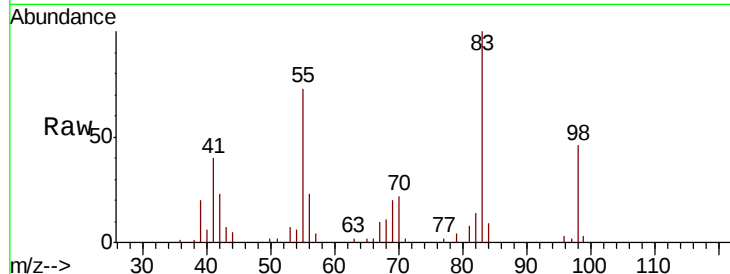




#39
Methvlcvclohexane
Concen: 2.249 ug/l
RT: 9.07 min Scan# 2269
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

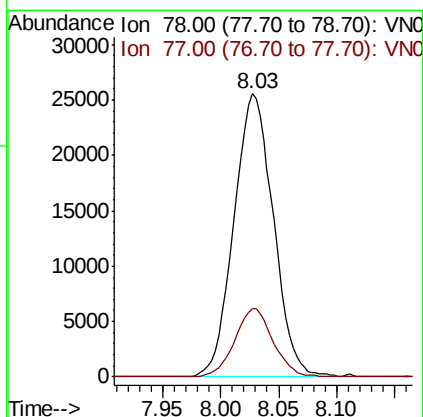
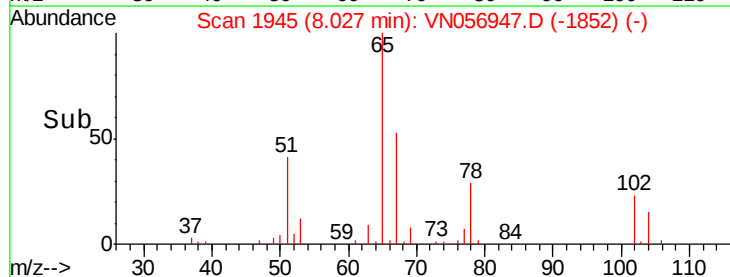
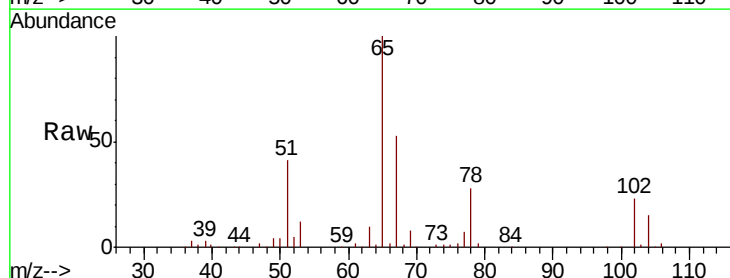
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

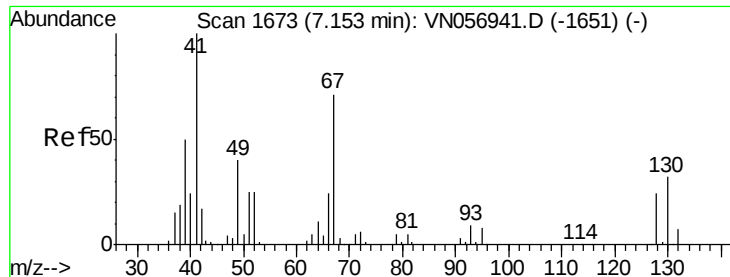
Tot Ion: 83 Resp: 22737
Ion Ratio Lower Upper
83 100
55 73.4 59.0 88.6
98 46.2 36.2 54.4



#40
Benzene
Concen: 2.475 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion: 78 Resp: 60317
Ion Ratio Lower Upper
78 100
77 24.3 18.3 27.5





#41

Methacrylonitrile

Concen: 7.591 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. 0.05 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

Tot Ion: 41 Resp: 22236

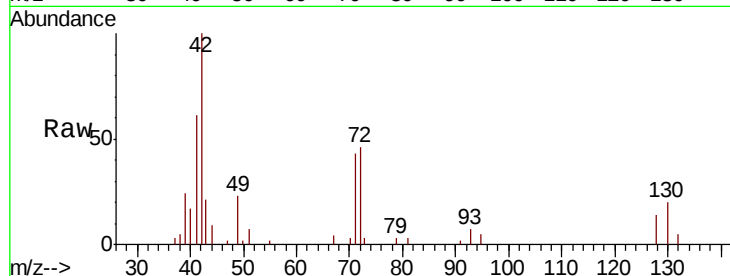
Ion Ratio Lower Upper

41 100

39 0.0 48.9 73.3#

67 0.0 83.4 125.0#

52 0.0 30.9 46.3#

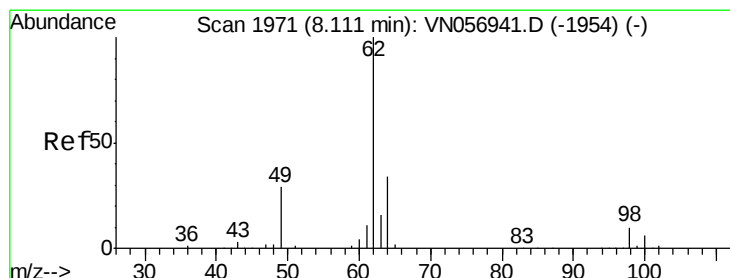
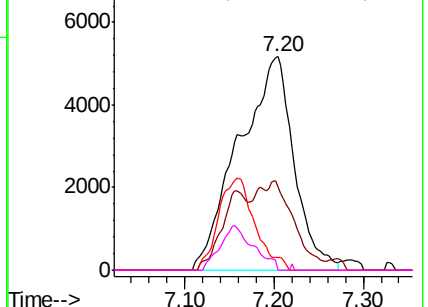
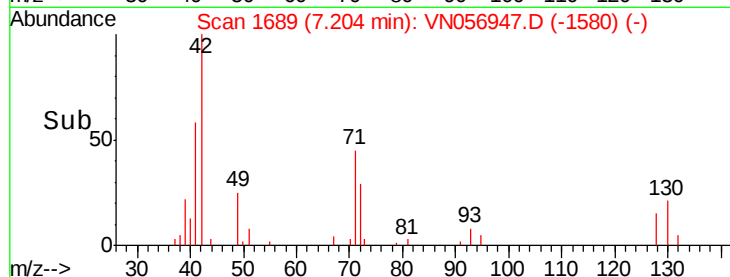


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0



#42

1,2-Dichloroethane

Concen: 2.521 ug/l

RT: 8.11 min Scan# 1971

Delta R.T. 0.00 min

Lab File: VN056947.D

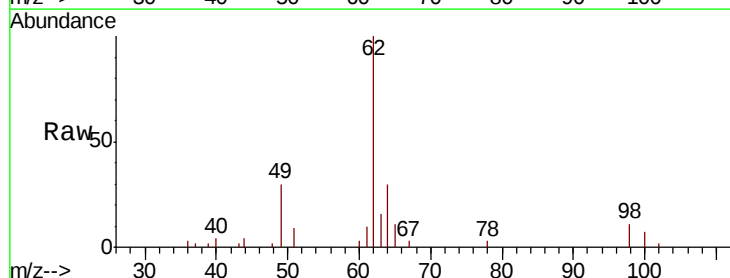
Acq: 26 Jul 2019 17:27

Tgt Ion: 62 Resp: 19254

Ion Ratio Lower Upper

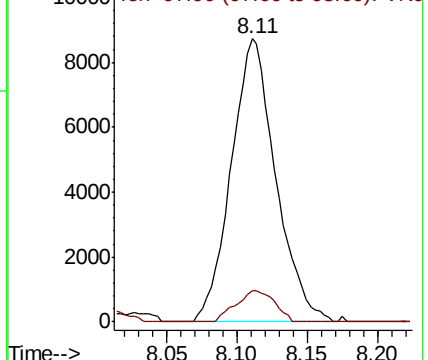
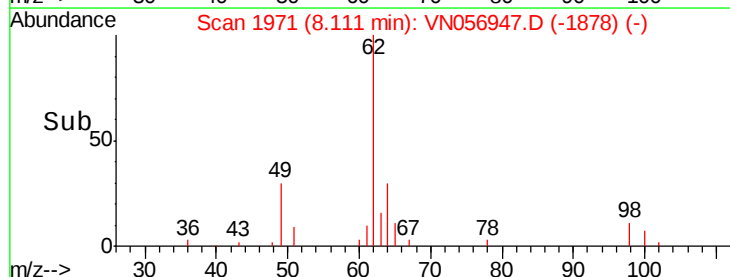
62 100

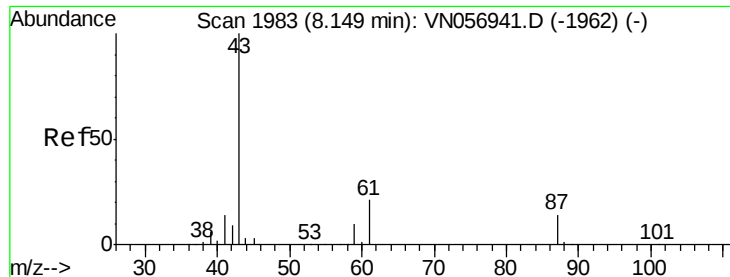
98 9.5 0.0 20.6



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 97.90 (97.60 to 98.60): VN0





#43

Isopropyl Acetate

Concen: 2.373 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

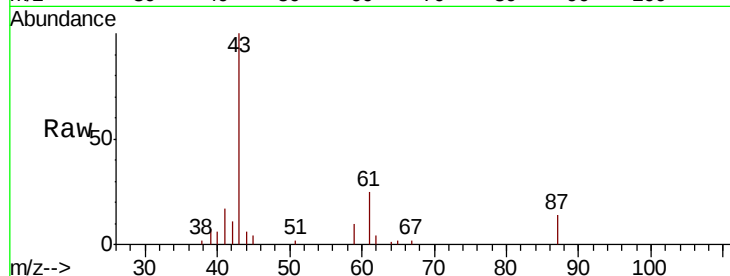
Tot Ion: 43 Resp: 24853

Ion Ratio Lower Upper

43 100

61 31.5 23.0 34.6

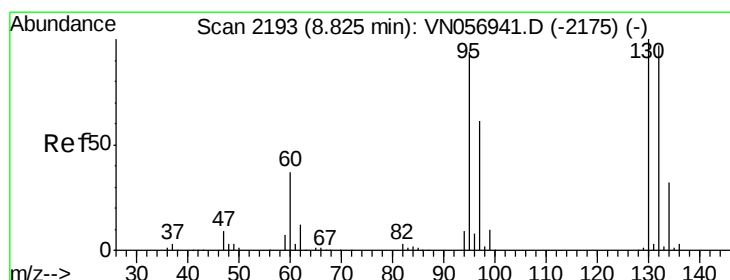
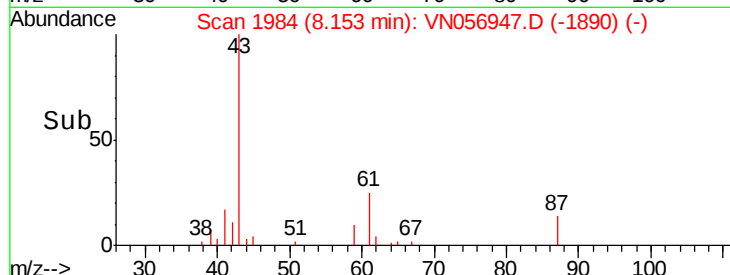
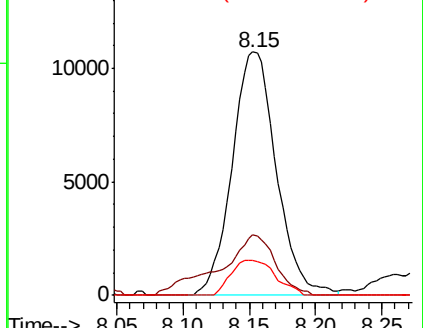
87 14.4 11.7 17.5



Abundance Ion 43.00 (42.70 to 43.70): VN056947.D (-1962) (-)

Ion 61.00 (60.70 to 61.70): VN056947.D (-1962) (-)

Ion 87.00 (86.70 to 87.70): VN056947.D (-1962) (-)



#44

Trichloroethene

Concen: 2.361 ug/l

RT: 8.82 min Scan# 2193

Delta R.T. 0.00 min

Lab File: VN056947.D

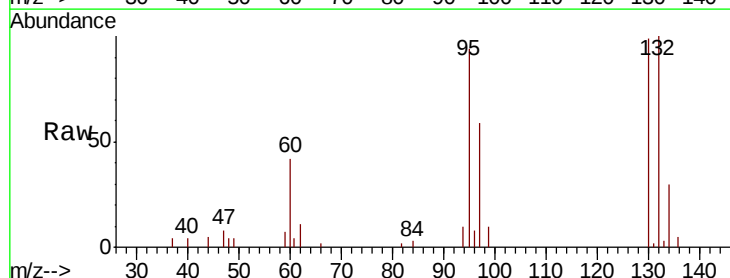
Acq: 26 Jul 2019 17:27

Tgt Ion: 130 Resp: 15848

Ion Ratio Lower Upper

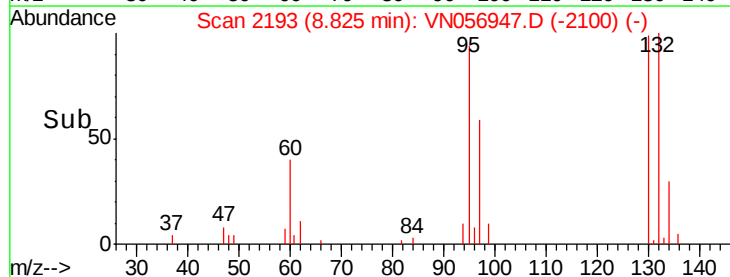
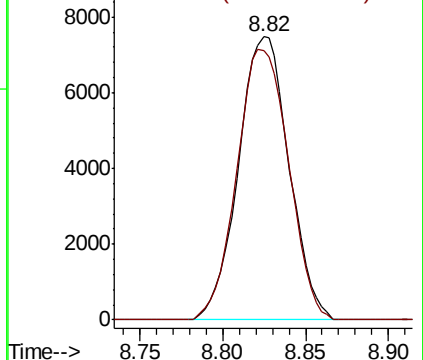
130 100

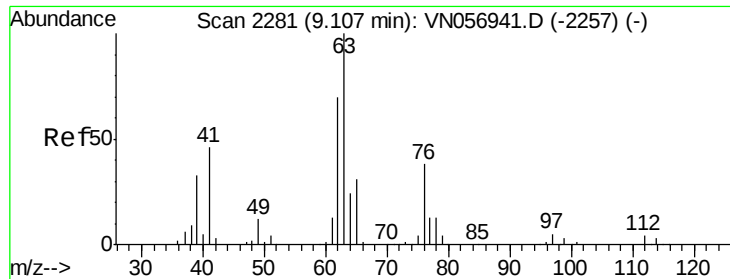
95 94.9 0.0 189.0



Abundance Ion 129.80 (129.50 to 130.50): VN056947.D (-2175) (-)

Ion 94.90 (94.60 to 95.60): VN056947.D (-2175) (-)





#45

1,2-Dichloropropane

Concen: 2.278 ug/l

RT: 9.10 min Scan# 2280

Delta R.T. -0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

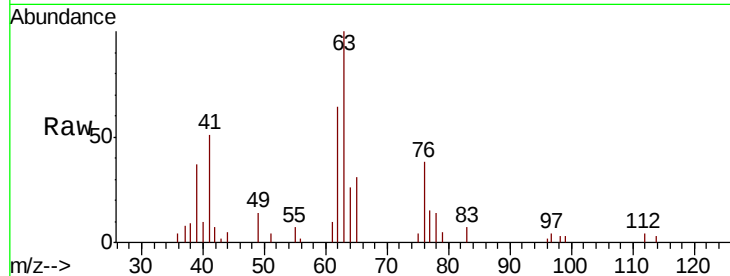
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 63 Resp: 14849

Ion Ratio Lower Upper

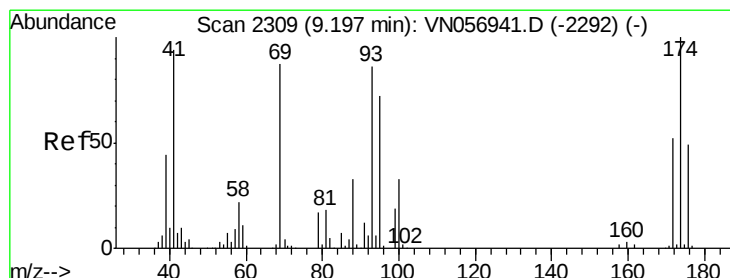
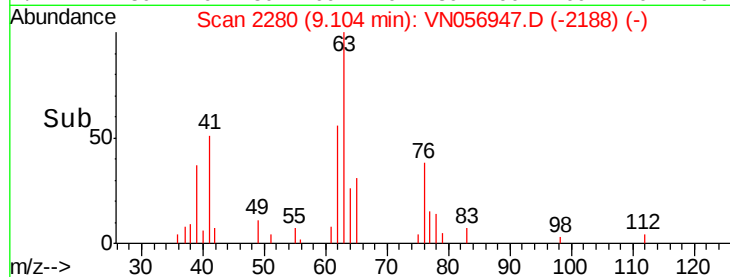
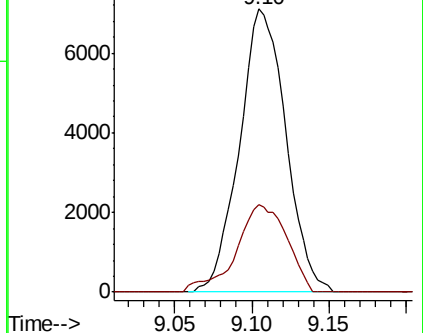
63 100

65 31.0 24.8 37.2



Abundance Ion 62.90 (62.60 to 63.60): VN056947.D (-2188) (-)

Ion 64.90 (64.60 to 65.60): VN056947.D (-2188) (-)



#46

Dibromomethane

Concen: 2.451 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

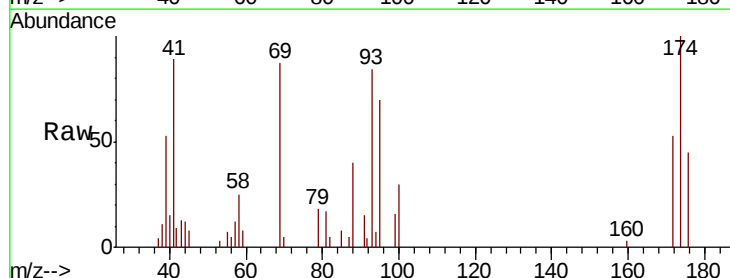
Tgt Ion: 93 Resp: 9634

Ion Ratio Lower Upper

93 100

95 86.8 67.0 100.6

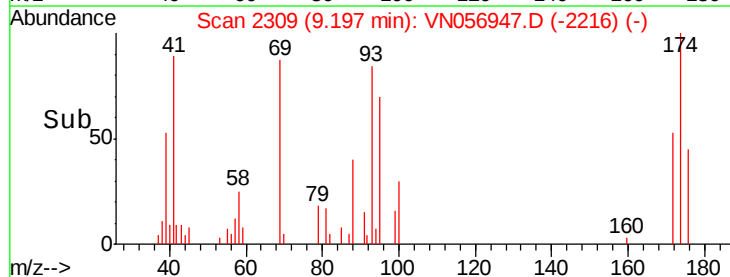
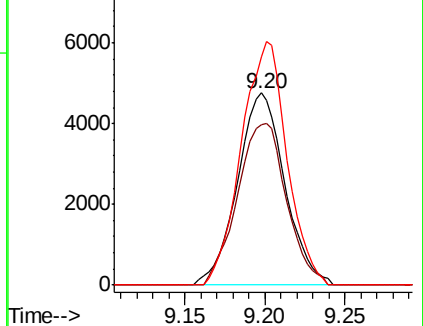
174 121.8 92.7 139.1

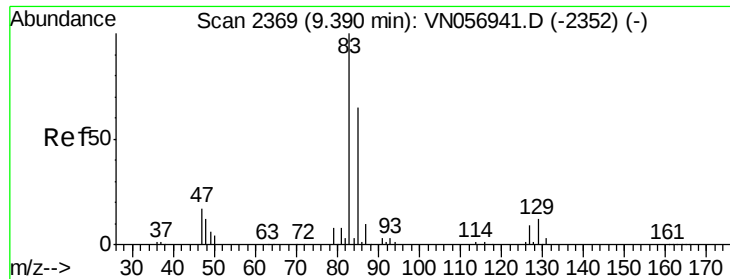


Abundance Ion 92.80 (92.50 to 93.50): VN056947.D (-2216) (-)

Ion 94.80 (94.50 to 95.50): VN056947.D (-2216) (-)

Ion 173.70 (173.40 to 174.40): VN056947.D (-2216) (-)





#47

Bromodichloromethane

Concen: 2.291 ug/l

RT: 9.39 min Scan# 2369

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

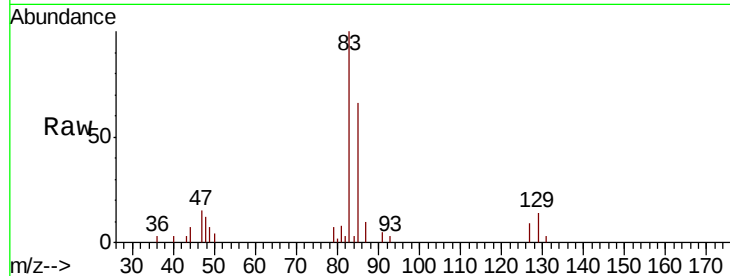
Tot Ion: 83 Resp: 17707

Ion Ratio Lower Upper

83 100

85 66.3 51.6 77.4

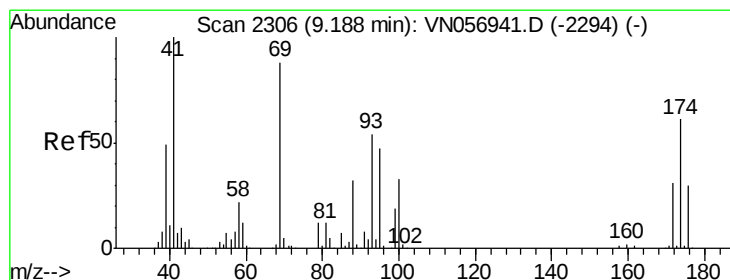
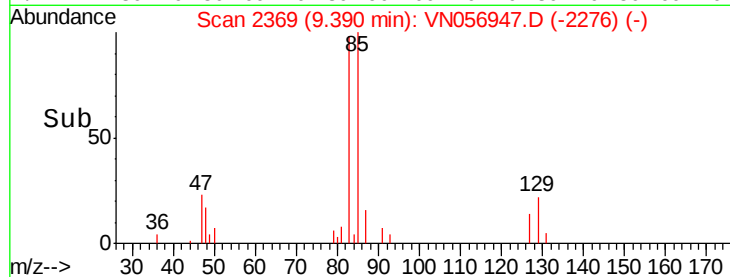
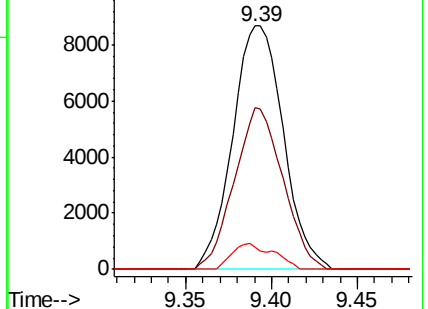
127 9.1 7.3 10.9



Abundance Ion 82.90 (82.60 to 83.60): VN056947.D (-2276) (-)

Ion 84.90 (84.60 to 85.60): VN056947.D (-2276) (-)

Ion 126.80 (126.50 to 127.50): VN056947.D (-2276) (-)



#48

Methyl methacrylate

Concen: 2.320 ug/l

RT: 9.19 min Scan# 2307

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

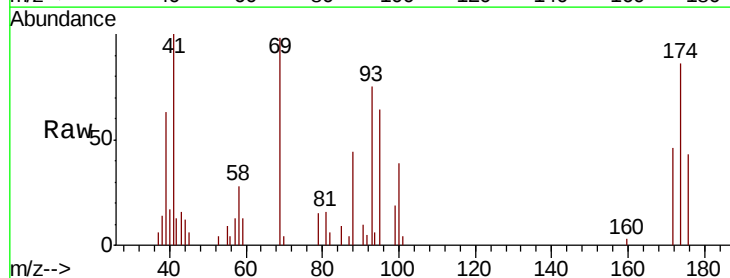
Tgt Ion: 41 Resp: 11728

Ion Ratio Lower Upper

41 100

69 90.5 73.4 110.0

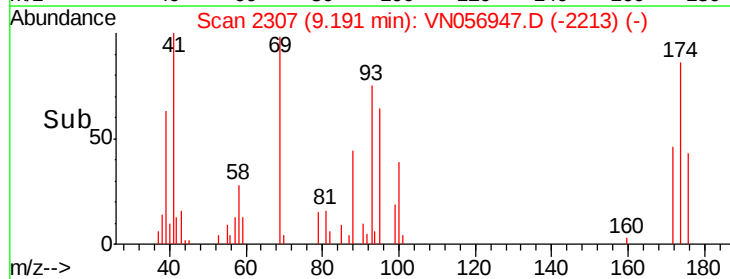
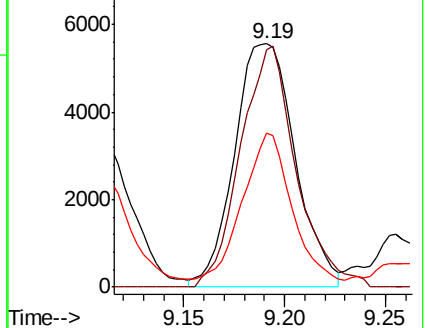
39 53.8 39.9 59.9

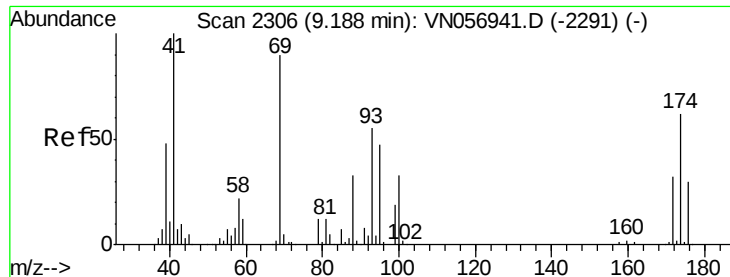


Abundance Ion 41.00 (40.70 to 41.70): VN056947.D (-2213) (-)

Ion 69.00 (68.70 to 69.70): VN056947.D (-2213) (-)

Ion 39.00 (38.70 to 39.70): VN056947.D (-2213) (-)

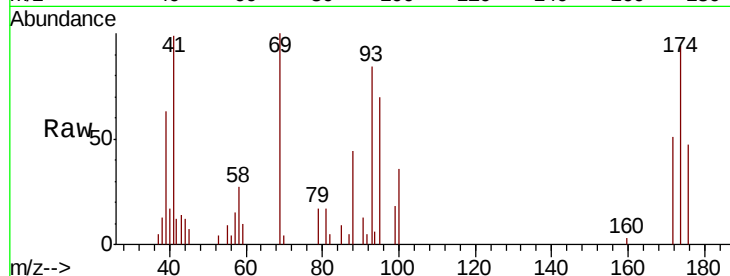




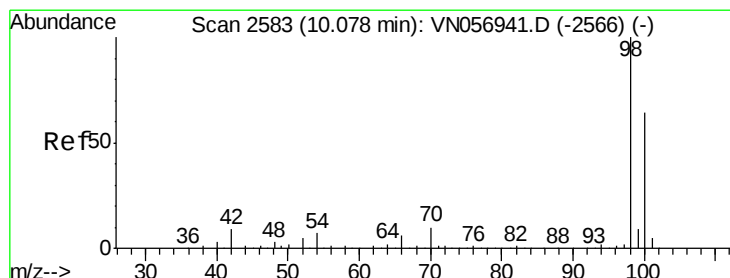
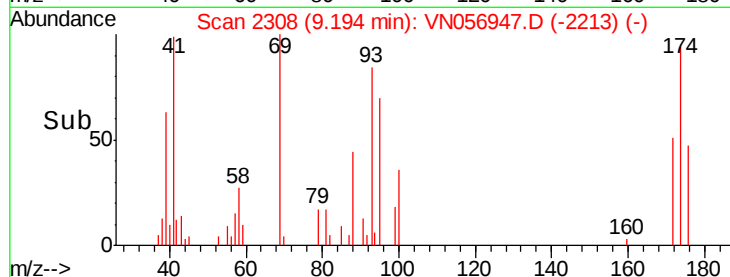
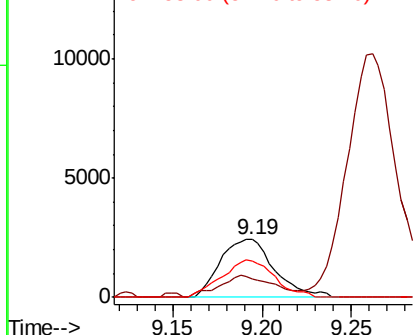
#49
 1,4-Dioxane
 Concen: 49.003 ug/l
 RT: 9.19 min Scan# 2308
 Delta R.T. 0.01 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

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

Tot Ion: 88 Resp: 5106
 Ion Ratio Lower Upper
 88 100
 43 37.8 22.2 33.2#
 58 62.6 54.1 81.1

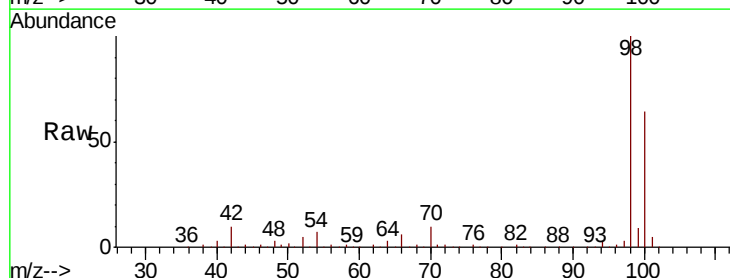


Abundance Ion 88.00 (87.70 to 88.70): VN0
 Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

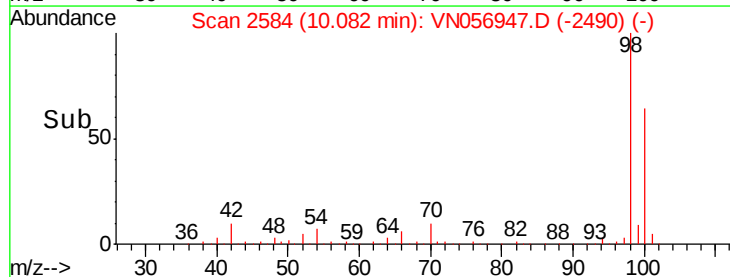
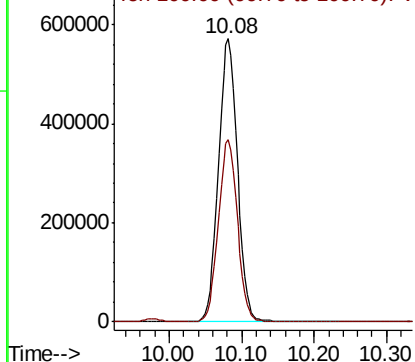


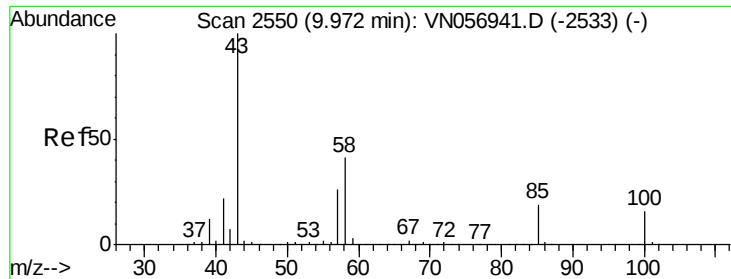
#50
 Toluene-d8
 Concen: 47.291 ug/l
 RT: 10.08 min Scan# 2584
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

Tgt Ion: 98 Resp: 1037998
 Ion Ratio Lower Upper
 98 100
 100 64.6 51.3 76.9



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





#51

4-Methyl-2-Pentanone

Concen: 11.871 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

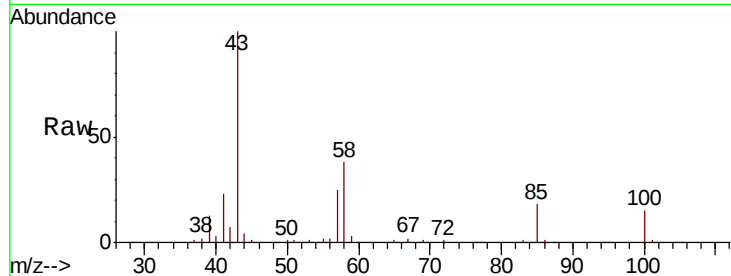
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 43 Resp: 73868

Ion Ratio Lower Upper

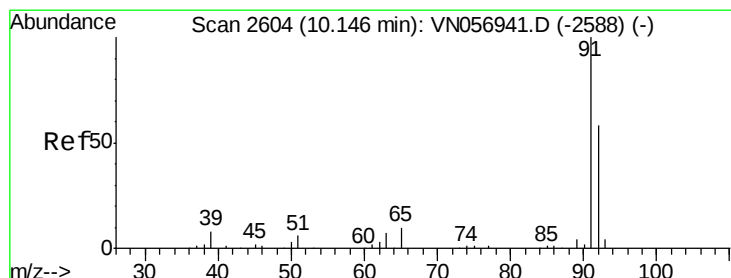
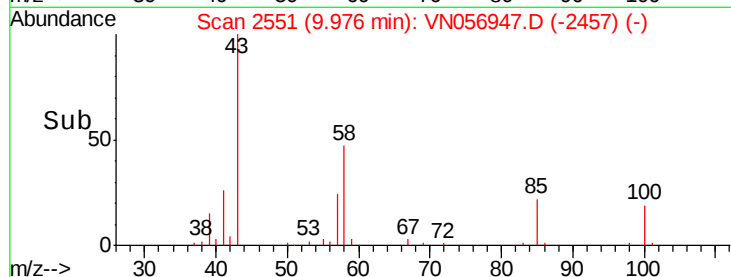
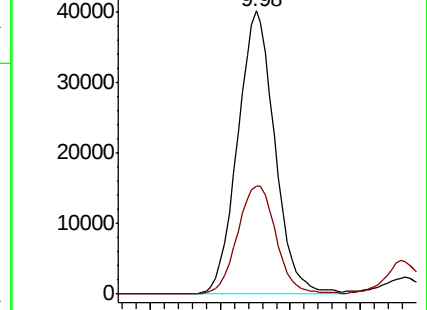
43 100

58 39.8 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VN056941.D (-2533) (-)

Ion 58.00 (57.70 to 58.70): VN056941.D (-2533) (-)



#52

Toluene

Concen: 2.368 ug/l

RT: 10.15 min Scan# 2604

Delta R.T. 0.00 min

Lab File: VN056947.D

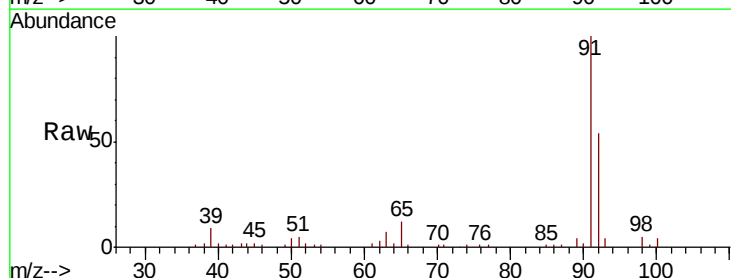
Acq: 26 Jul 2019 17:27

Tgt Ion: 92 Resp: 34672

Ion Ratio Lower Upper

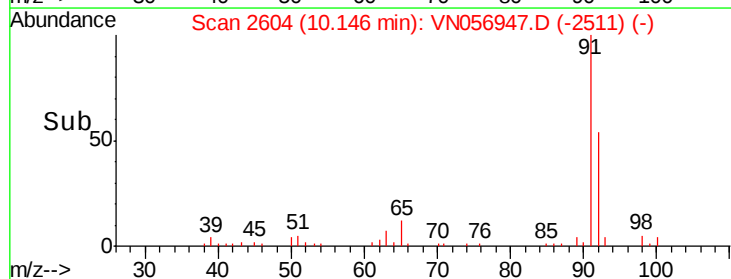
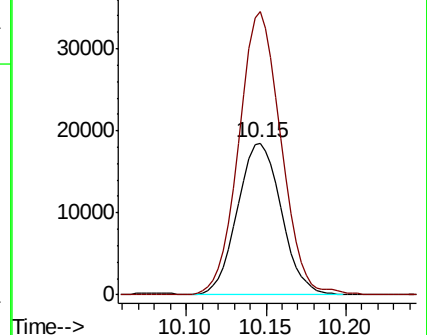
92 100

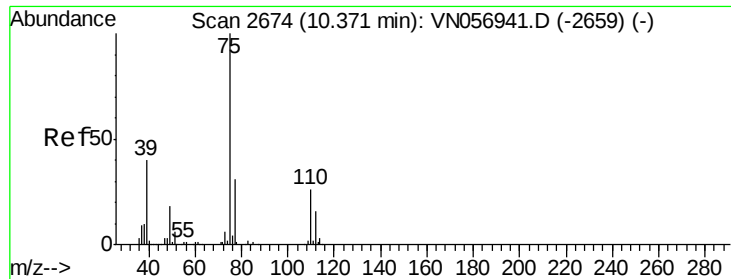
91 179.2 138.0 207.0



Abundance Ion 92.00 (91.70 to 92.70): VN056941.D (-2588) (-)

Ion 91.00 (90.70 to 91.70): VN056941.D (-2588) (-)





#53

t-1,3-Dichloropropene

Concen: 1.997 ug/l

RT: 10.37 min Scan# 2675

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

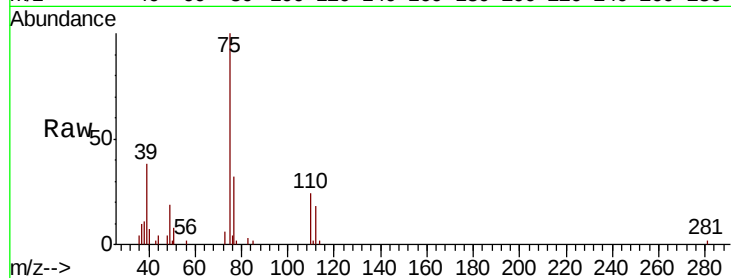
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 75 Resp: 16014

Ion Ratio Lower Upper

75 100

77 31.6 25.1 37.7



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

10.37

10000

8000

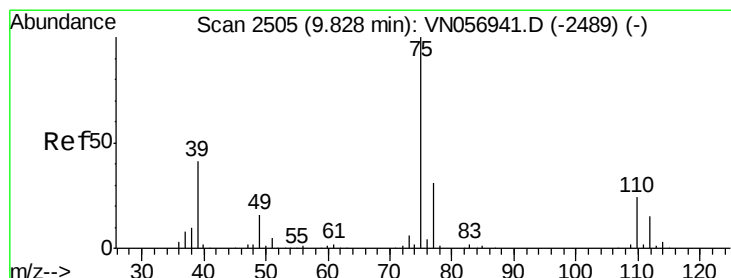
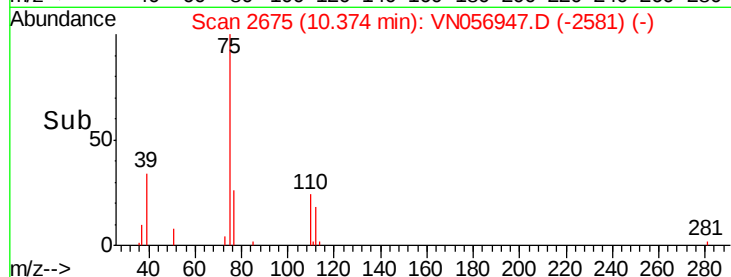
6000

4000

2000

0

Time--> 10.30 10.35 10.40



#54

cis-1,3-Dichloropropene

Concen: 2.111 ug/l

RT: 9.83 min Scan# 2506

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

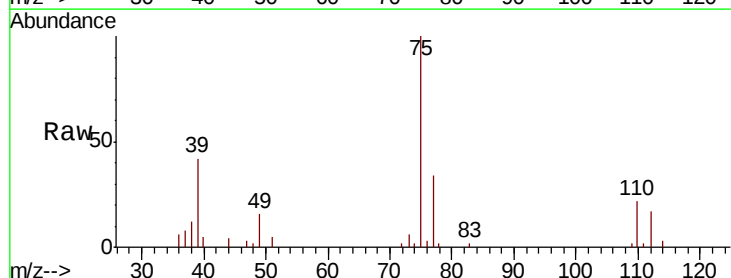
Tgt Ion: 75 Resp: 19688

Ion Ratio Lower Upper

75 100

77 33.7 25.0 37.6

39 42.0 32.6 49.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

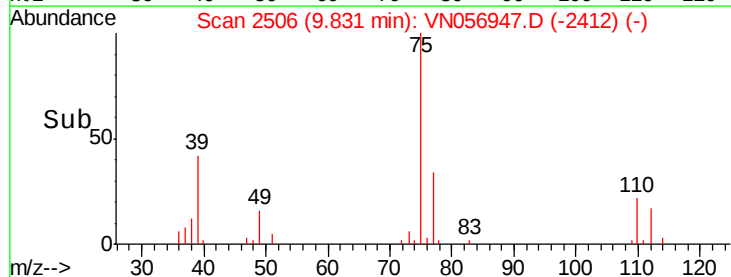
9.83

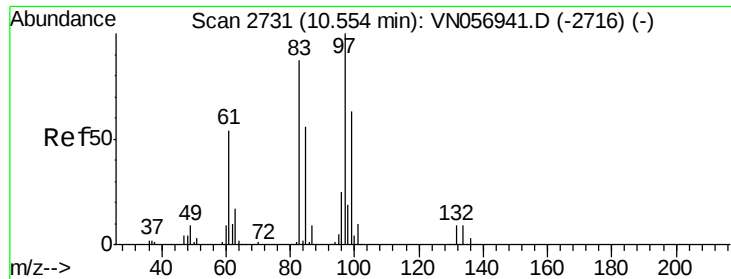
10000

5000

0

Time--> 9.75 9.80 9.85 9.90

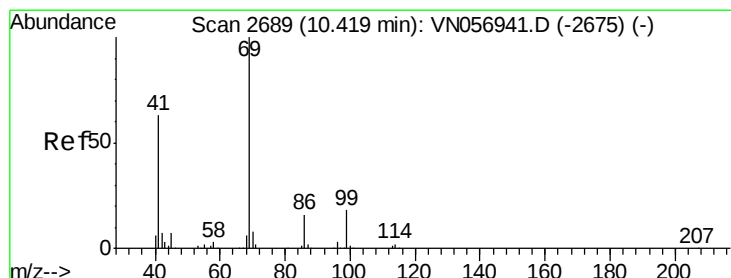
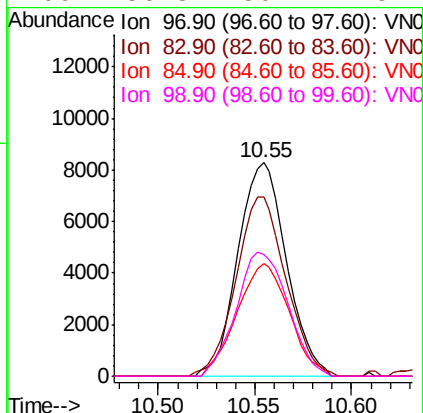
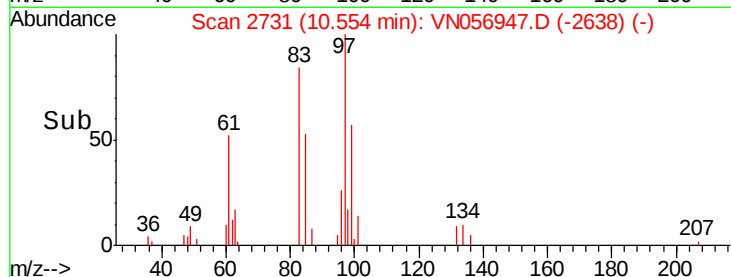
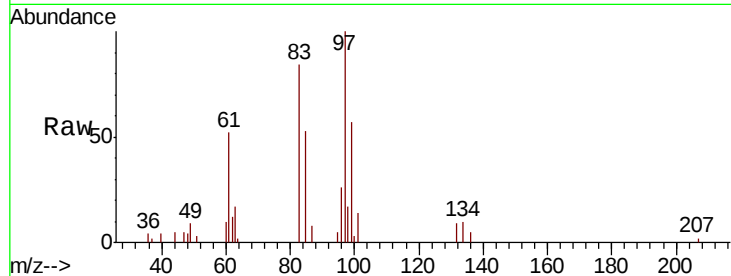




#55
 1,1,2-Trichloroethane
 Concen: 2.464 ug/l
 RT: 10.55 min Scan# 2731
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

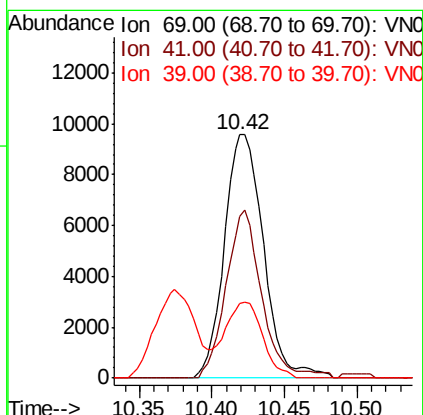
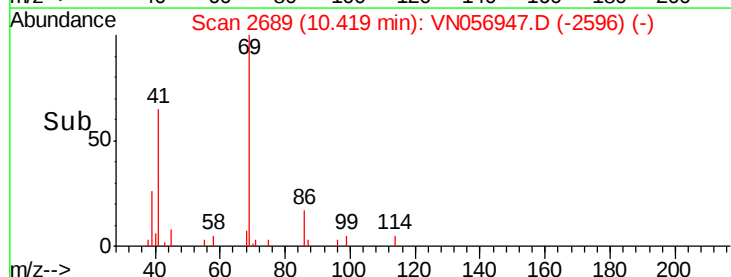
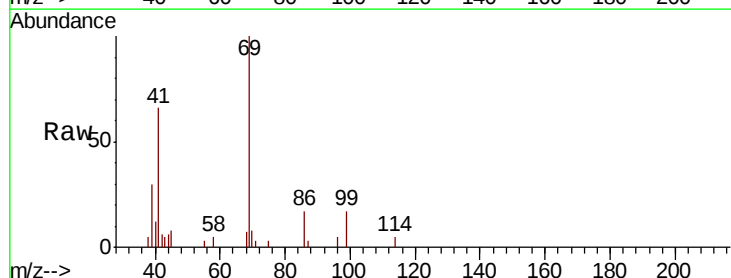
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

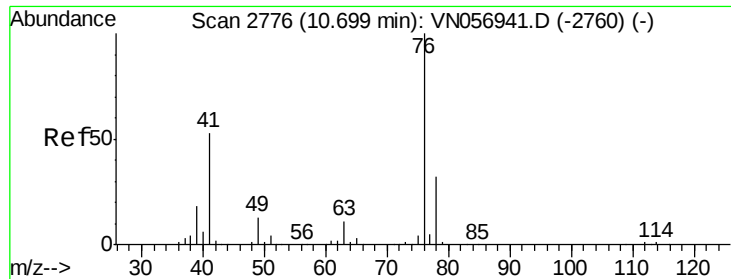
Tot Ion: 97 Resp: 14464
 Ion Ratio Lower Upper
 97 100
 83 83.7 69.4 104.0
 85 52.9 44.7 67.1
 99 56.8 50.1 75.1



#56
 Ethyl methacrylate
 Concen: 3.707 ug/l
 RT: 10.42 min Scan# 2689
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

Tgt Ion: 69 Resp: 17891
 Ion Ratio Lower Upper
 69 100
 41 63.0 49.2 73.8
 39 30.0 23.1 34.7

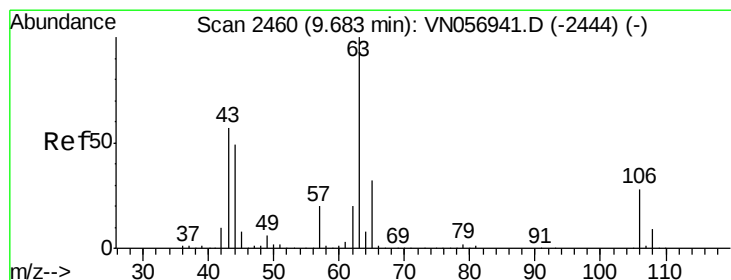
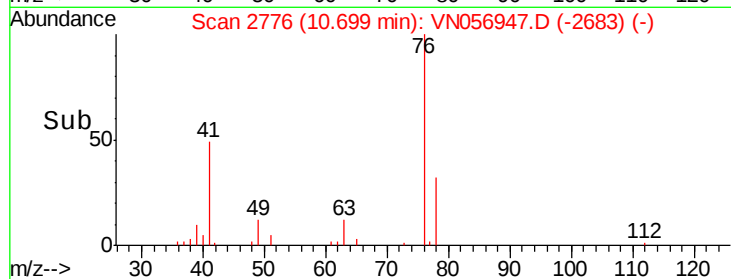
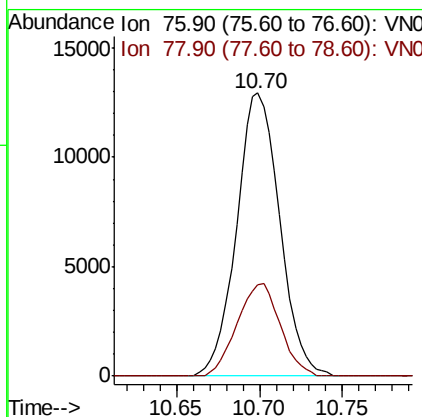
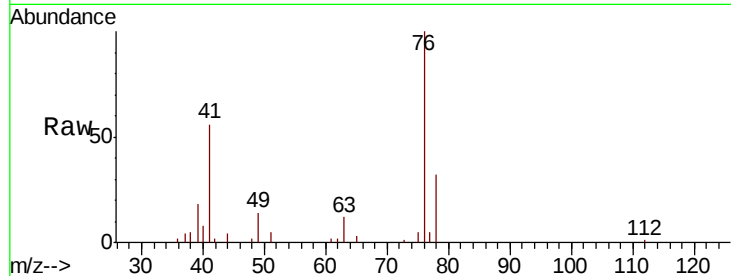




#57
 1,3-Dichloropropane
 Concen: 2.400 ug/l
 RT: 10.70 min Scan# 2776
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

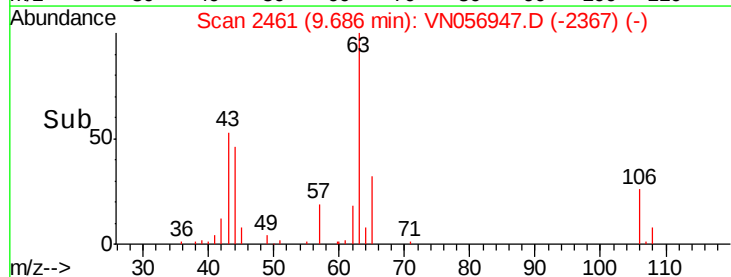
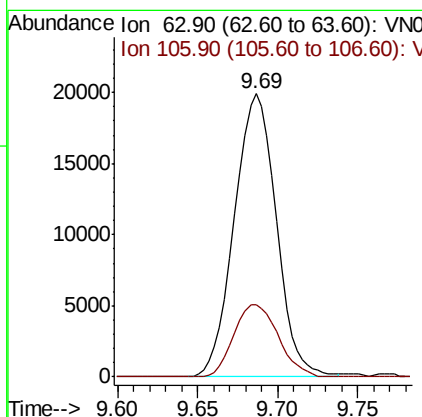
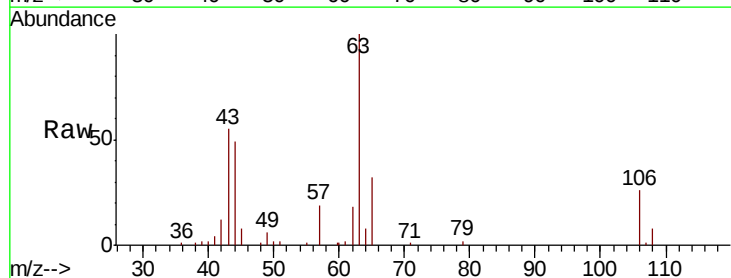
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

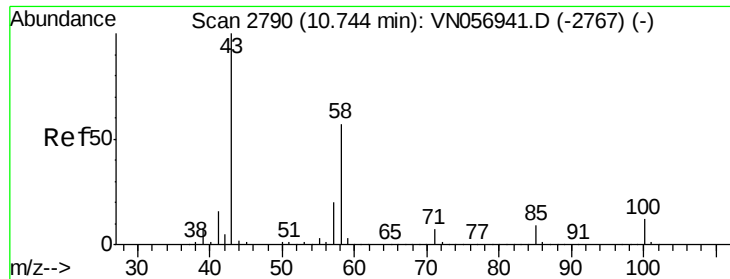
Tot Ion: 76 Resp: 23368
 Ion Ratio Lower Upper
 76 100
 78 32.5 25.9 38.9



#58
 2-Chloroethyl Vinyl ether
 Concen: 10.143 ug/l
 RT: 9.69 min Scan# 2461
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

Tgt Ion: 63 Resp: 35687
 Ion Ratio Lower Upper
 63 100
 106 27.0 22.0 33.0

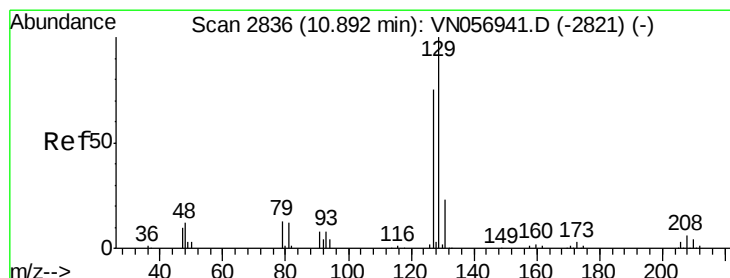
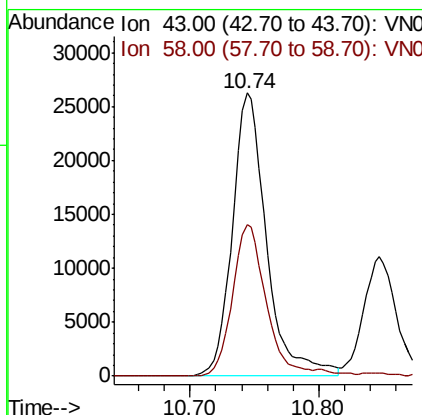
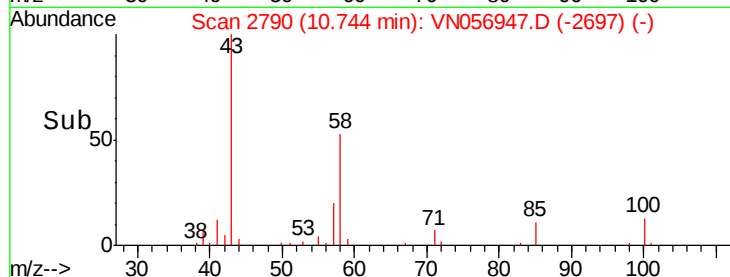
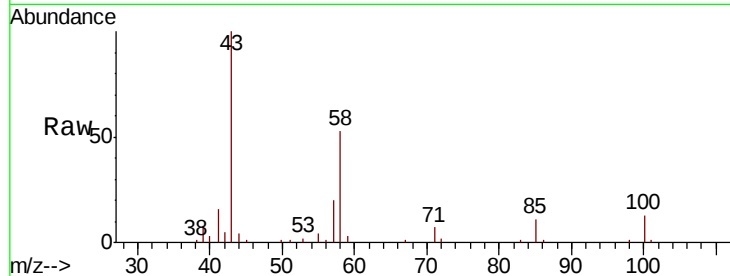




#59
2-Hexanone
Concen: 12.504 ug/l
RT: 10.74 min Scan# 2790
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

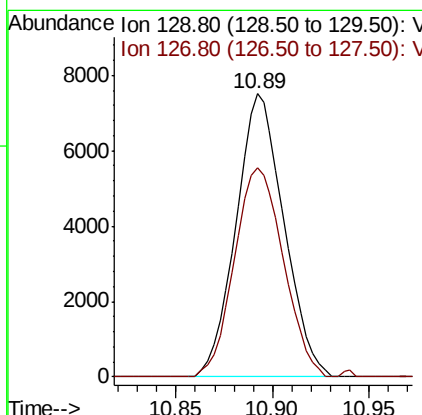
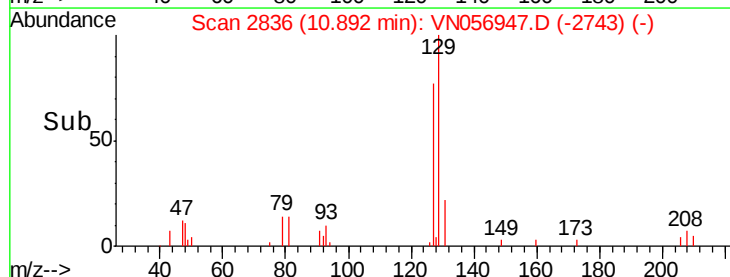
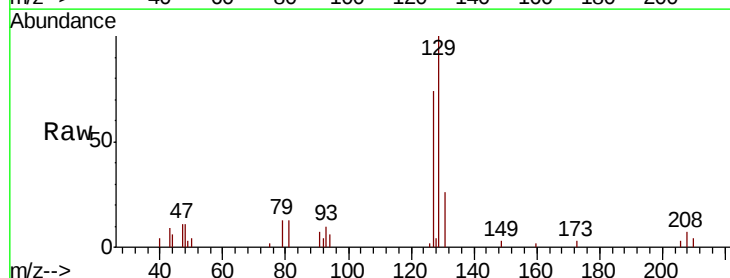
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

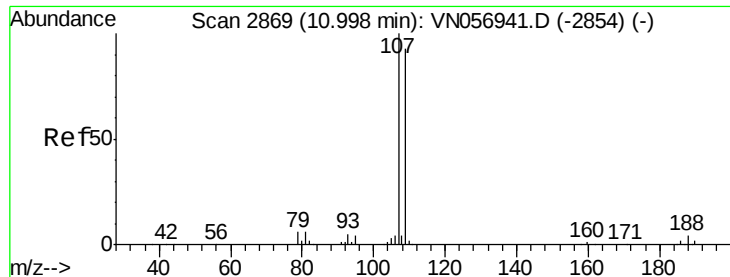
Tot Ion: 43 Resp: 48425
Ion Ratio Lower Upper
43 100
58 51.9 28.5 85.5



#60
Dibromochloromethane
Concen: 2.148 ug/l
RT: 10.89 min Scan# 2836
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion: 129 Resp: 12923
Ion Ratio Lower Upper
129 100
127 75.6 38.0 113.9

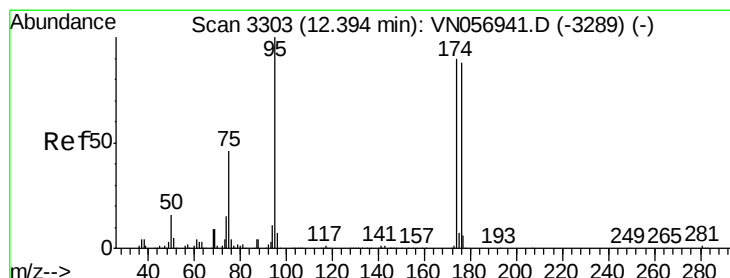
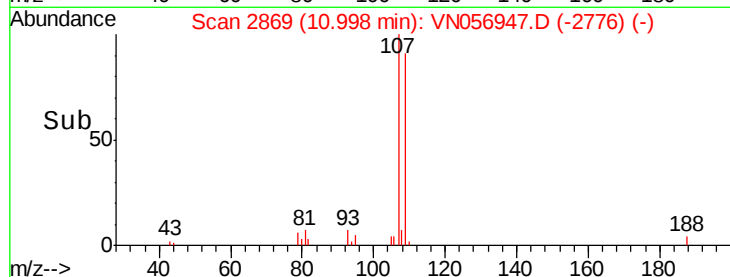
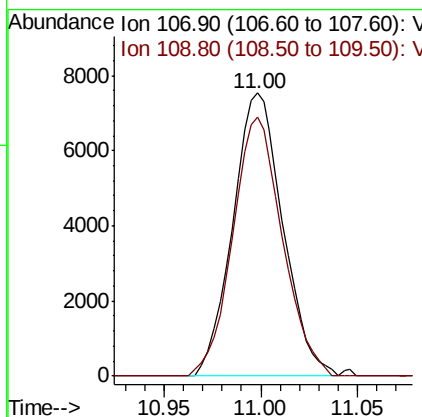
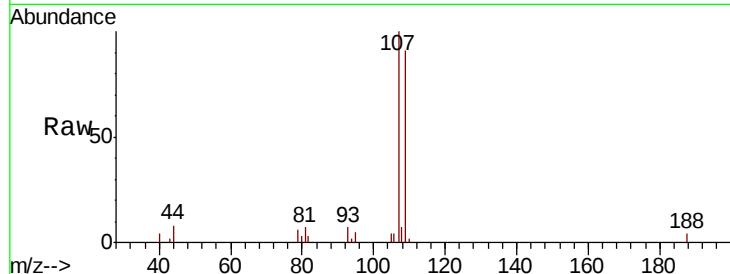




#61
 1,2-Dibromoethane
 Concen: 2.367 ug/l
 RT: 11.00 min Scan# 2869
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

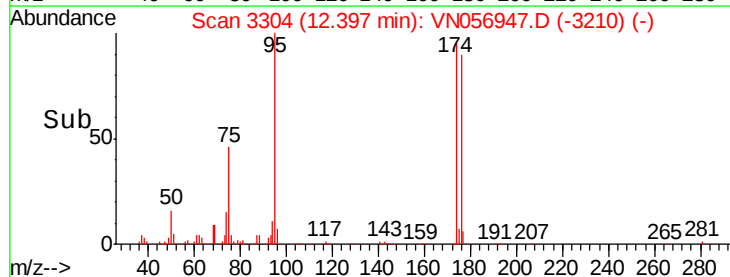
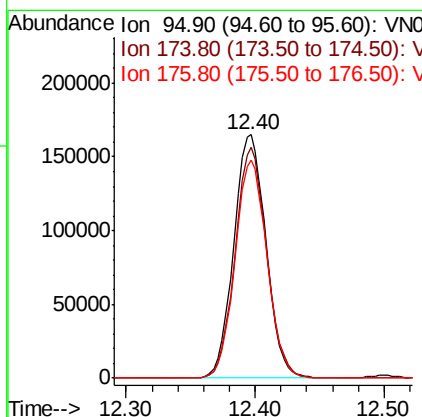
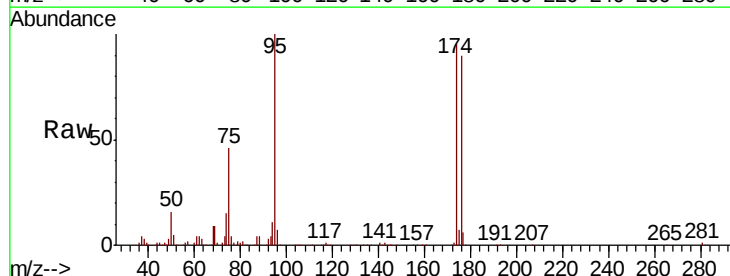
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

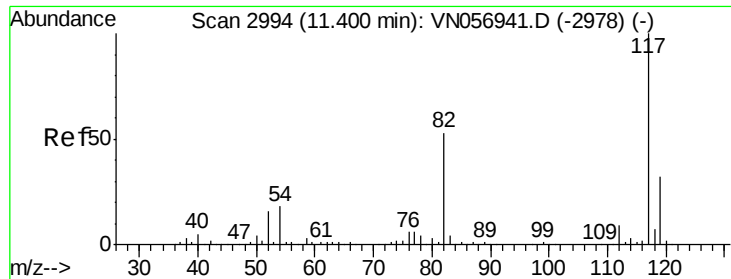
Tot Ion: 107 Resp: 13561
 Ion Ratio Lower Upper
 107 100
 109 90.8 76.0 114.0



#62
 4-Bromofluorobenzene
 Concen: 39.975 ug/l
 RT: 12.40 min Scan# 3304
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

Tgt Ion: 95 Resp: 285639
 Ion Ratio Lower Upper
 95 100
 174 92.9 0.0 182.2
 176 89.1 0.0 179.4

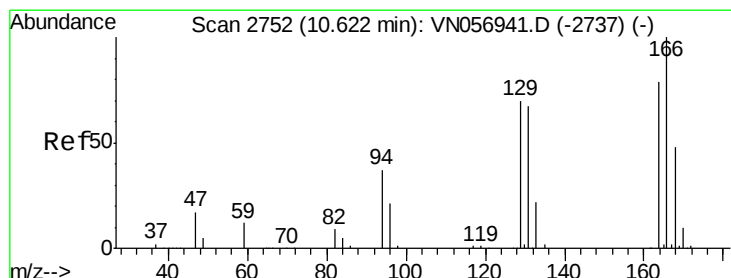
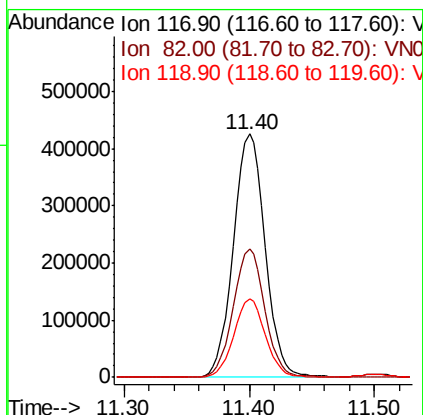
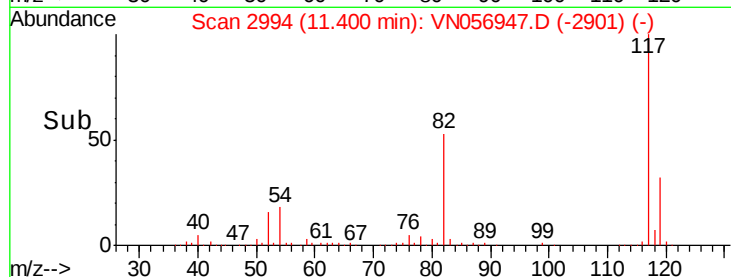
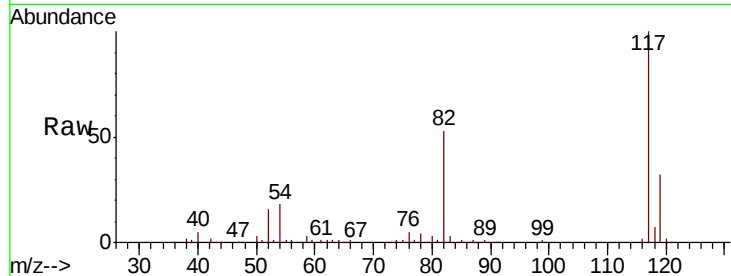




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

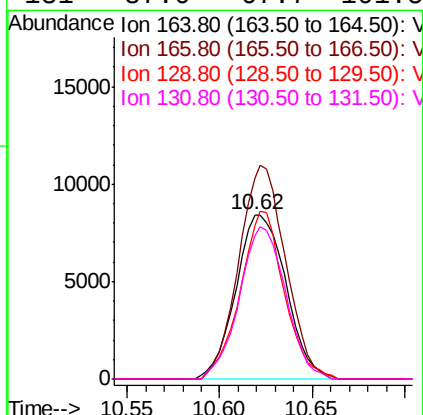
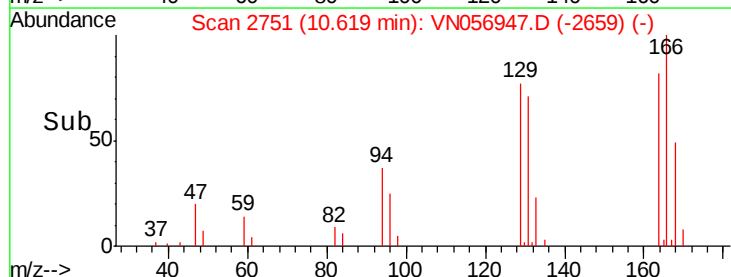
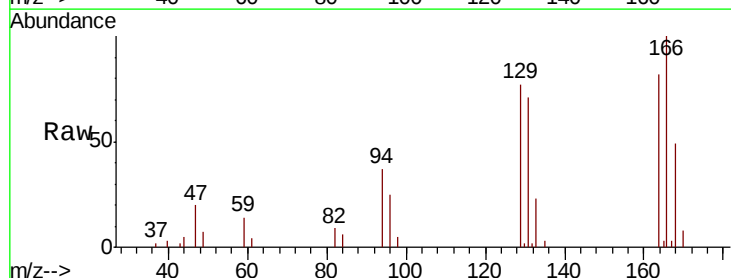
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

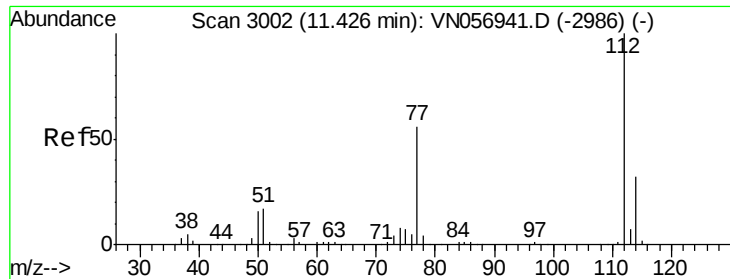
Tot Ion:117 Resp: 751192
Ion Ratio Lower Upper
117 100
82 52.7 42.2 63.4
119 32.2 25.8 38.6



#64
Tetrachloroethene
Concen: 2.448 ug/l
RT: 10.62 min Scan# 2751
Delta R.T. -0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion:164 Resp: 15845
Ion Ratio Lower Upper
164 100
166 122.1 101.1 151.7
129 93.5 70.9 106.3
131 87.0 67.7 101.5

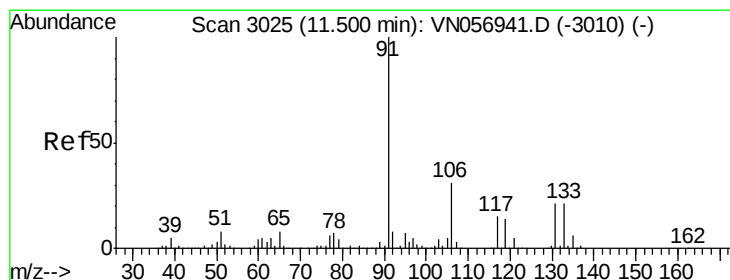
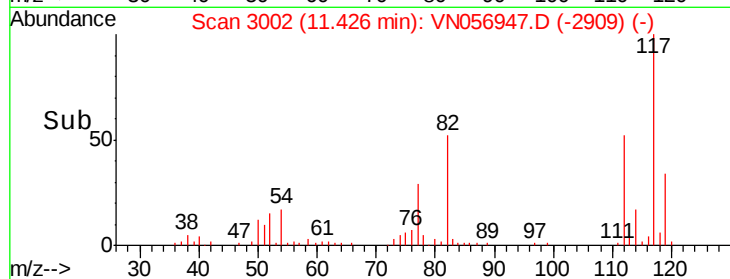
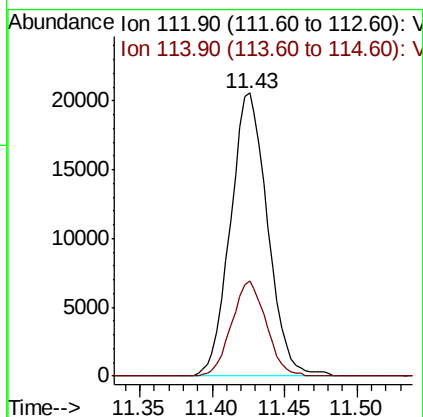
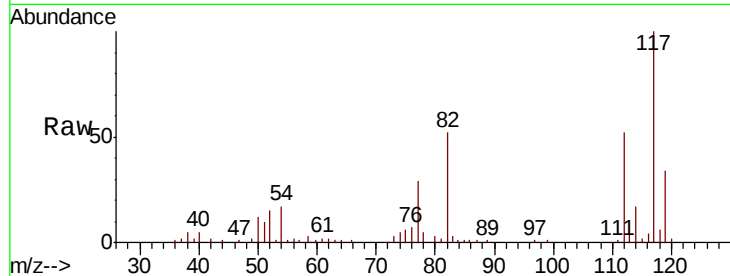




#65
Chlorobenzene
Concen: 2.386 ug/l
RT: 11.43 min Scan# 3002
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

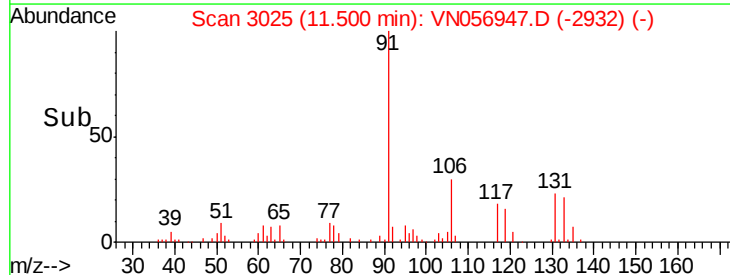
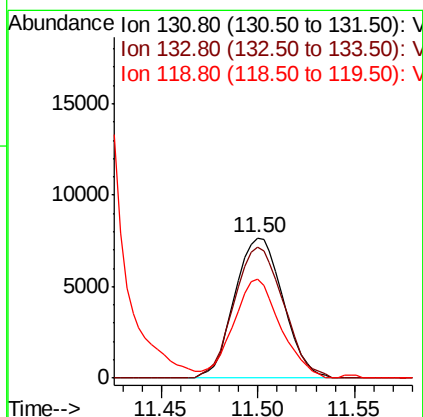
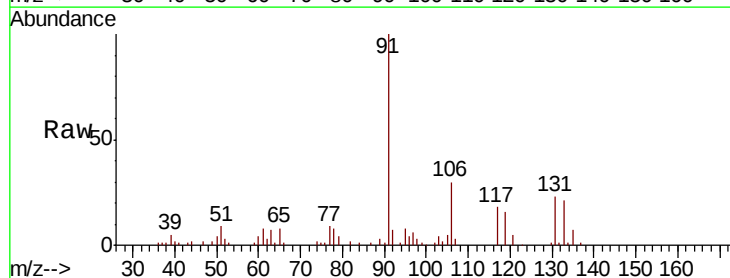
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

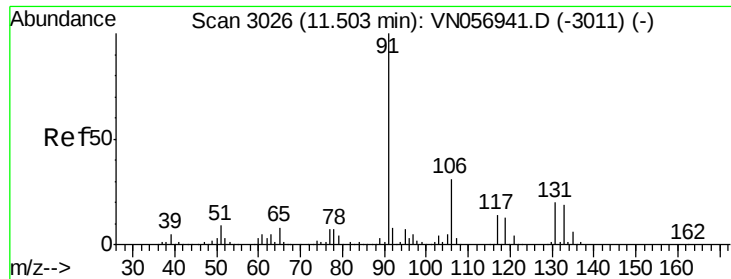
Tot Ion:112 Resp: 36533
Ion Ratio Lower Upper
112 100
114 33.5 26.0 39.0



#66
1,1,1,2-Tetrachloroethane
Concen: 2.320 ug/l
RT: 11.50 min Scan# 3025
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion:131 Resp: 13367
Ion Ratio Lower Upper
131 100
133 95.3 48.0 144.0
119 68.6 33.2 99.6

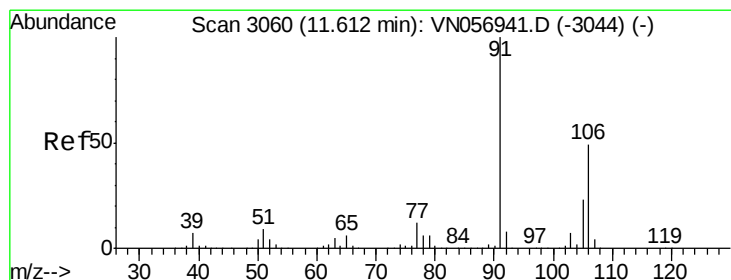
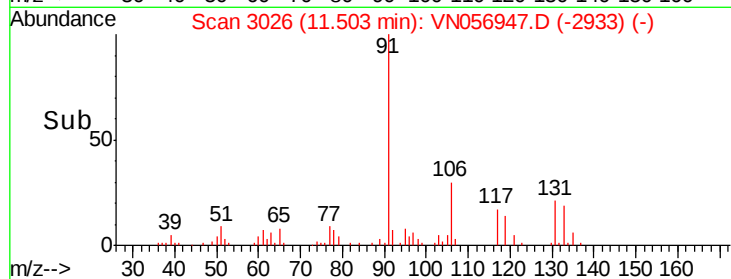
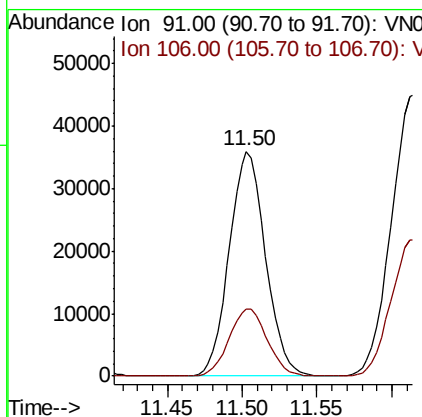
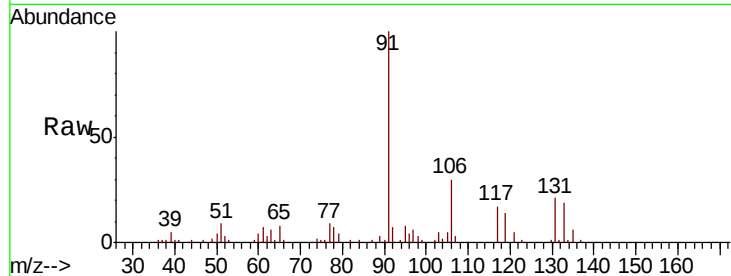




#67
Ethyl Benzene
Concen: 2.295 ug/l
RT: 11.50 min Scan# 3026
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

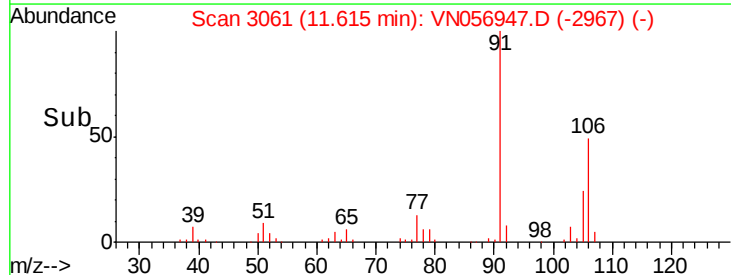
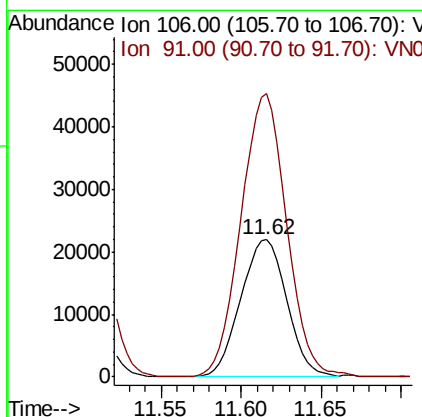
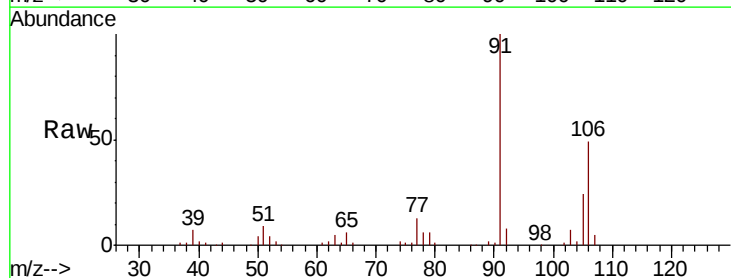
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

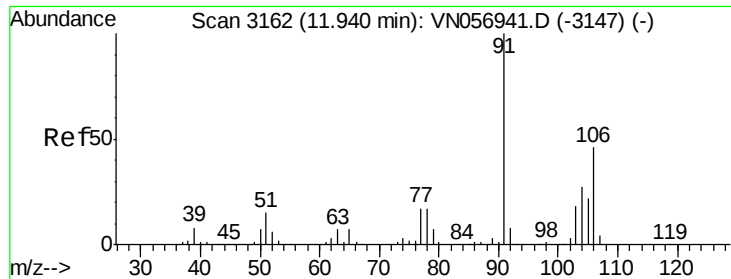
Tot Ion: 91 Resp: 60732
Ion Ratio Lower Upper
91 100
106 30.0 25.1 37.7



#68
m/p-Xylenes
Concen: 4.442 ug/l
RT: 11.62 min Scan# 3061
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion: 106 Resp: 43375
Ion Ratio Lower Upper
106 100
91 204.9 160.0 240.0

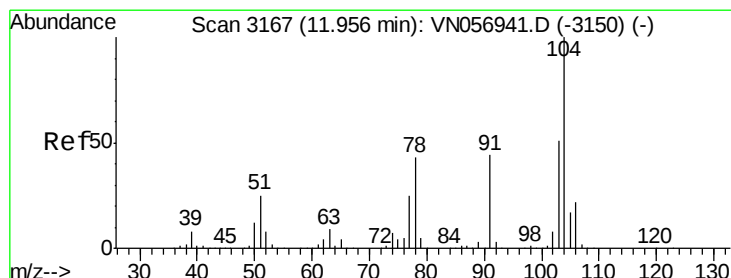
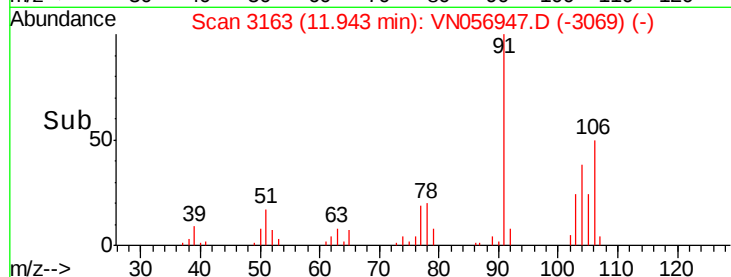
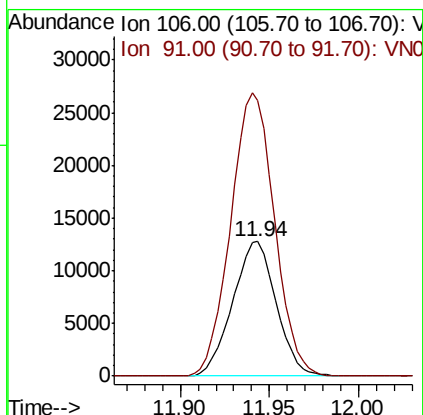
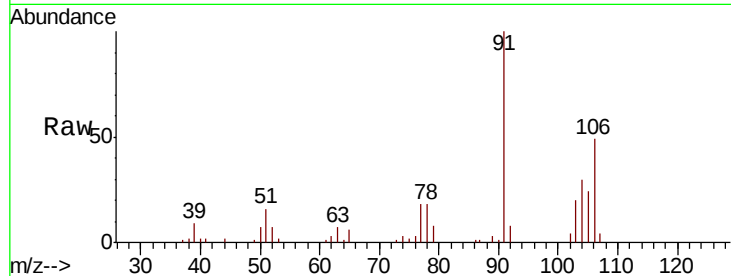




#69
o-Xylene
Concen: 2.266 ug/l
RT: 11.94 min Scan# 3163
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

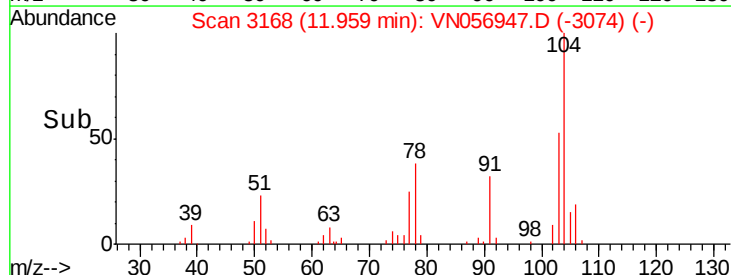
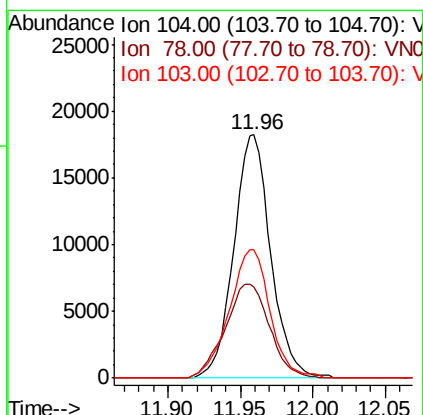
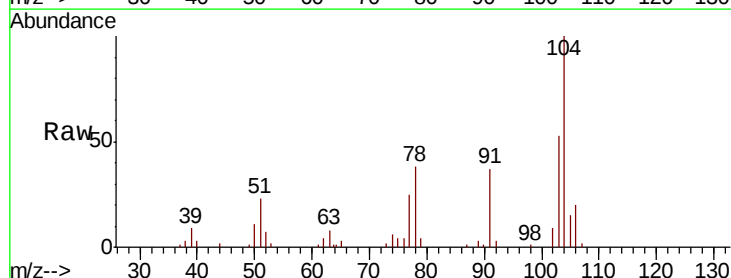
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

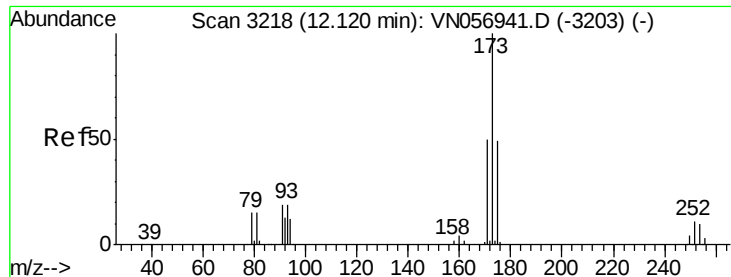
Tot Ion:106 Resp: 21651
Ion Ratio Lower Upper
106 100
91 211.2 106.2 318.6



#70
Styrene
Concen: 3.700 ug/l
RT: 11.96 min Scan# 3168
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion:104 Resp: 32164
Ion Ratio Lower Upper
104 100
78 46.4 38.1 57.1
103 58.3 44.3 66.5

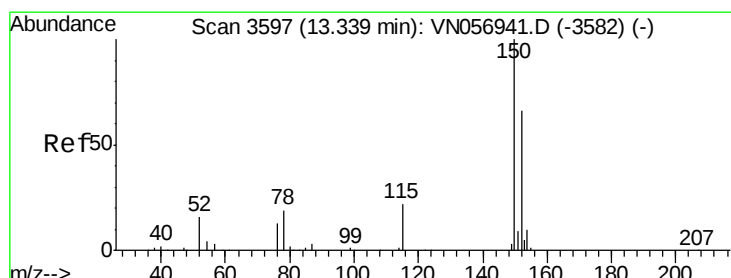
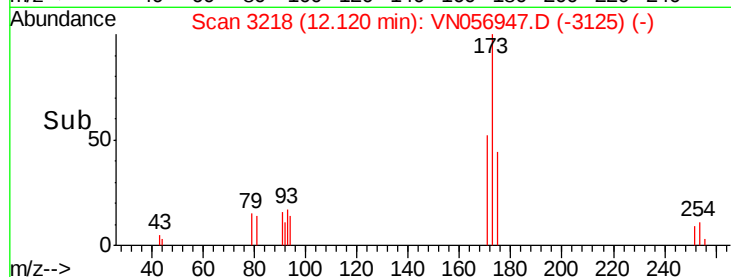
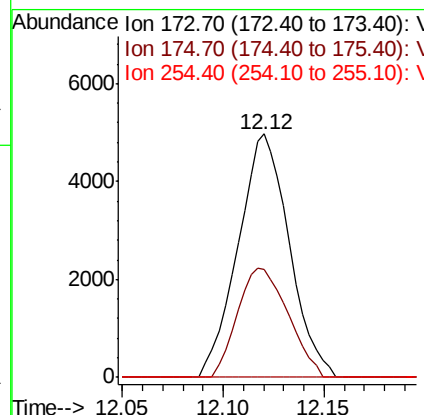
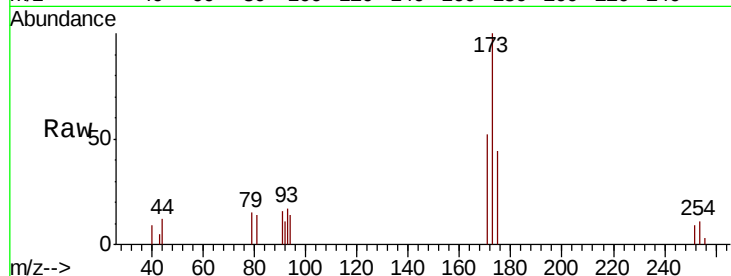




#71
Bromoform
Concen: 2.184 ug/l
RT: 12.12 min Scan# 3218
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

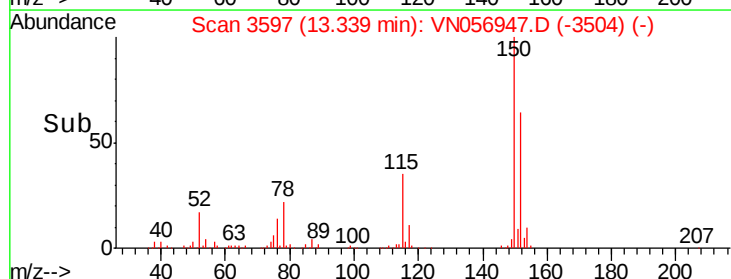
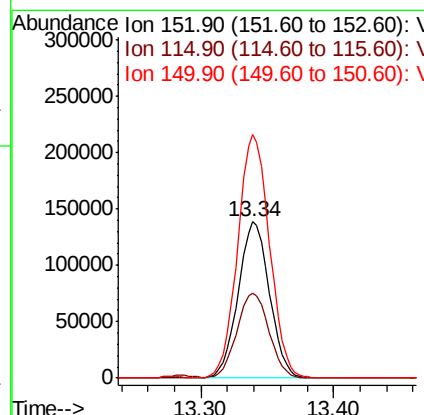
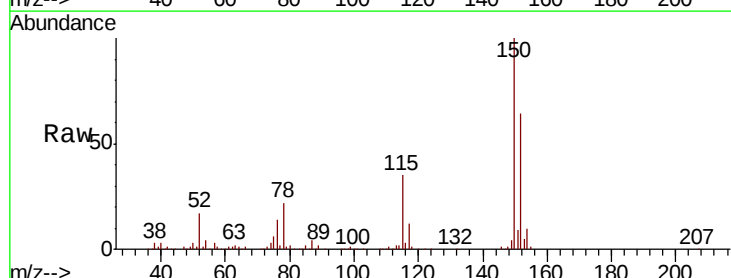
Instrument :
MSVOA_N
ClientSampleId :
MDL-MDL-WATER-03-QT3-2019

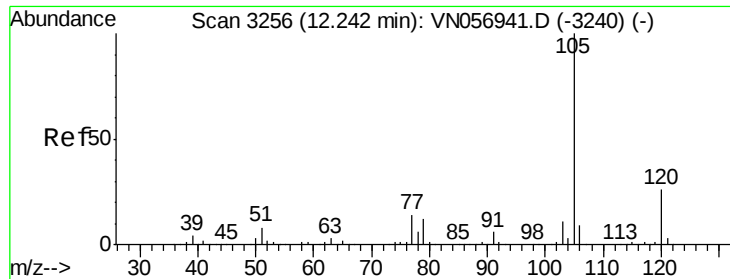
Tot Ion:173 Resp: 8785
Ion Ratio Lower Upper
173 100
175 44.4 24.1 72.4
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. 0.00 min
Lab File: VN056947.D
Acq: 26 Jul 2019 17:27

Tgt Ion:152 Resp: 227658
Ion Ratio Lower Upper
152 100
115 55.8 28.2 84.6
150 157.4 0.0 349.4





#73

Isopropylbenzene

Concen: 2.928 ug/l

RT: 12.24 min Scan# 3256

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

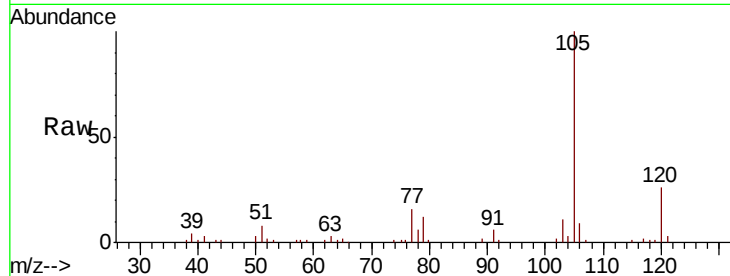
MDL-MDL-WATER-03-QT3-2019

Tot Ion:105 Resp: 57605

Ion Ratio Lower Upper

105 100

120 25.6 13.5 40.5



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.24

40000

30000

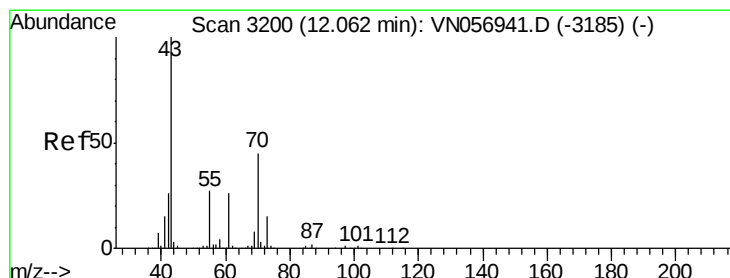
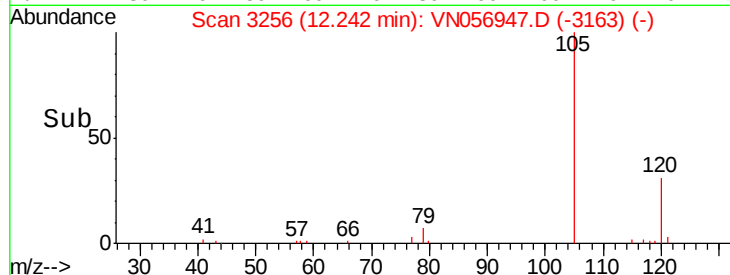
20000

10000

0

Time-->

12.20 12.25 12.30



#74

N-ethyl acetate

Concen: 2.417 ug/l

RT: 12.07 min Scan# 3201

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Tgt Ion: 43 Resp: 13807

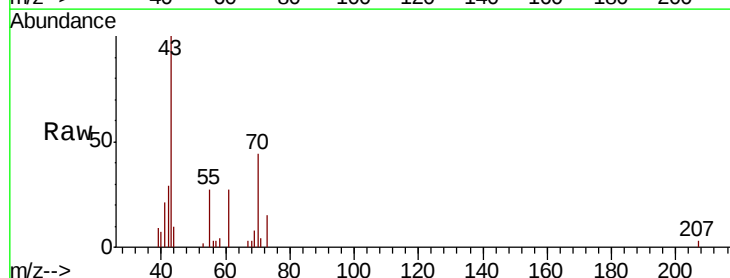
Ion Ratio Lower Upper

43 100

70 45.9 36.5 54.7

55 29.0 21.4 32.0

61 24.8 20.5 30.7



Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

12000

10000

8000

6000

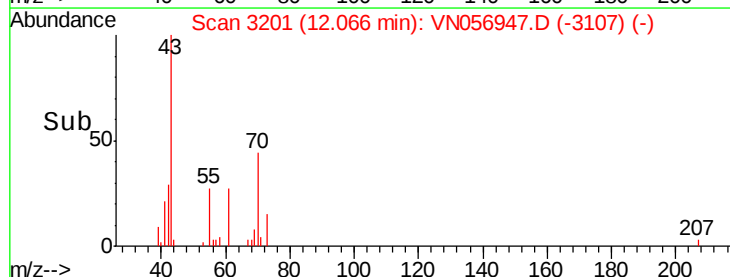
4000

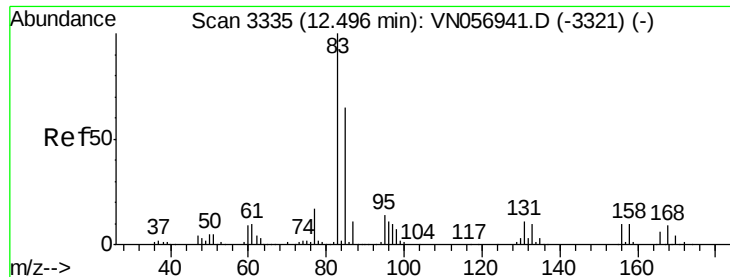
2000

0

Time-->

12.00 12.05 12.10





#75

1,1,2,2-Tetrachloroethane

Concen: 1.034 ug/l

RT: 12.50 min Scan# 3336

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

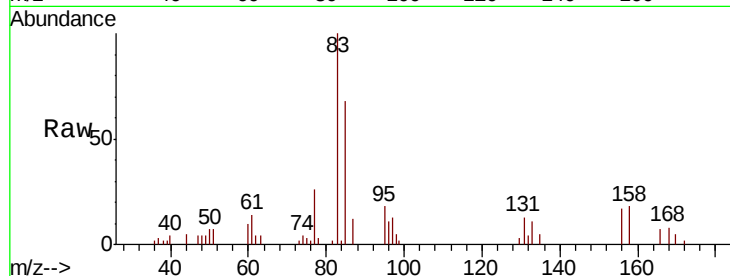
Tot Ion: 83 Resp: 17584

Ion Ratio Lower Upper

83 100

131 11.1 5.3 16.1

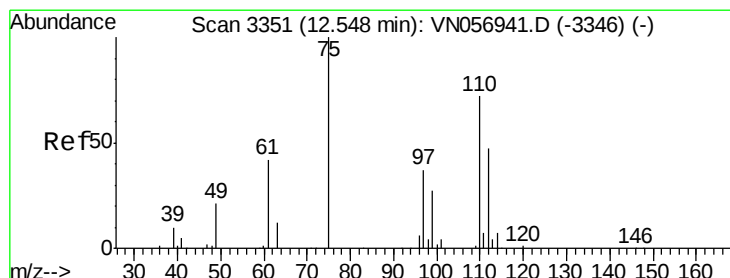
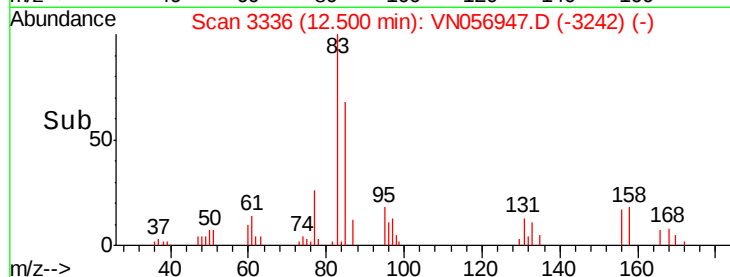
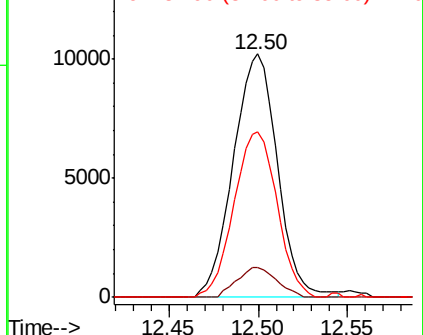
85 66.4 32.5 97.4



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 4.169 ug/l

RT: 12.55 min Scan# 3351

Delta R.T. 0.00 min

Lab File: VN056947.D

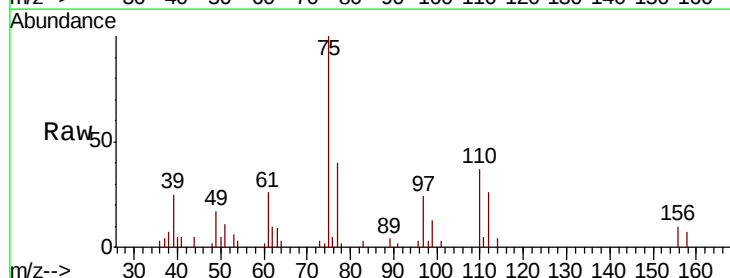
Acq: 26 Jul 2019 17:27

Tgt Ion: 75 Resp: 19273

Ion Ratio Lower Upper

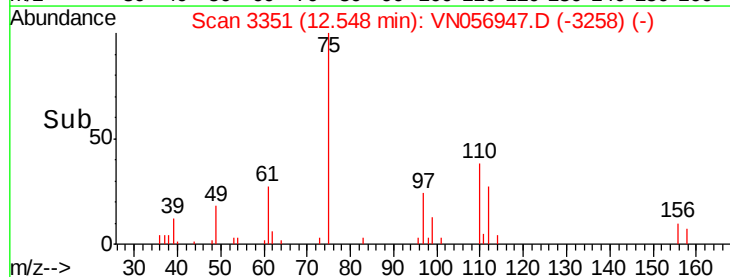
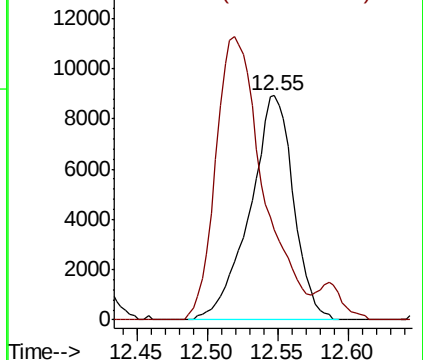
75 100

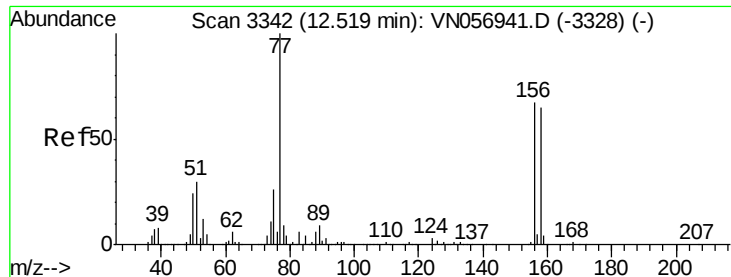
77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#77

Bromobenzene

Concen: 2.842 ug/l

RT: 12.52 min Scan# 3342

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

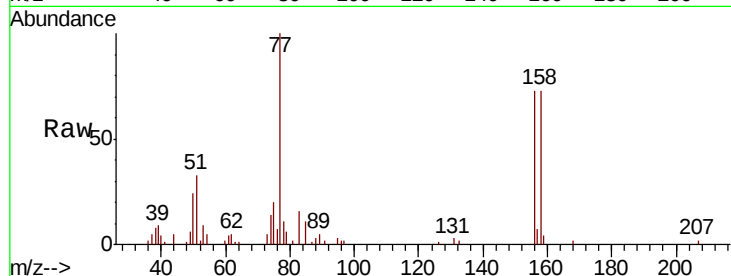
Tot Ion:156 Resp: 14594

Ion Ratio Lower Upper

156 100

77 181.4 89.5 268.5

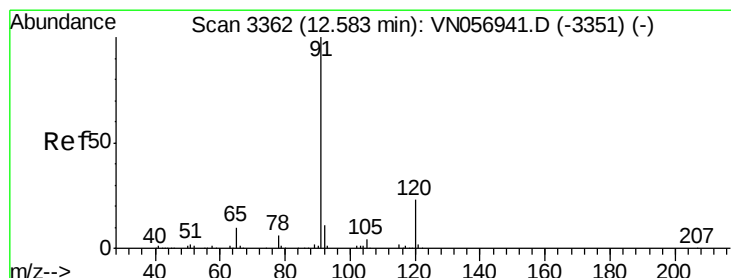
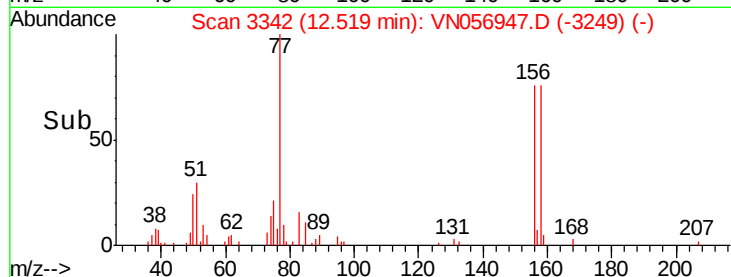
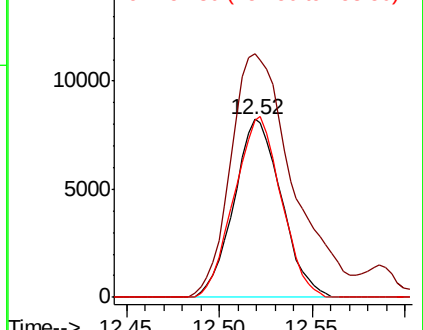
158 100.5 48.4 145.3



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 2.684 ug/l

RT: 12.58 min Scan# 3362

Delta R.T. 0.00 min

Lab File: VN056947.D

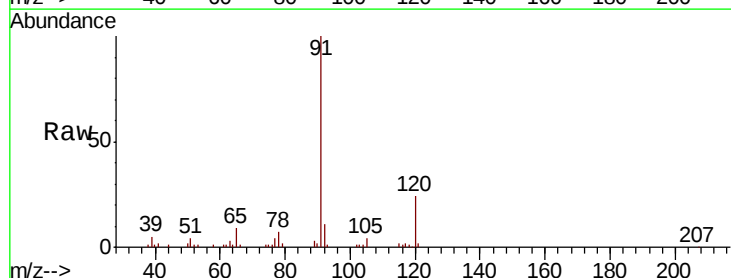
Acq: 26 Jul 2019 17:27

Tgt Ion: 91 Resp: 56378

Ion Ratio Lower Upper

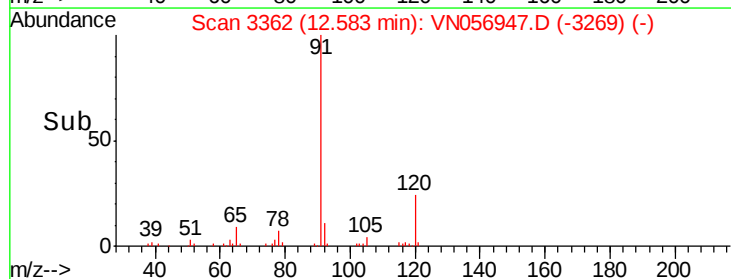
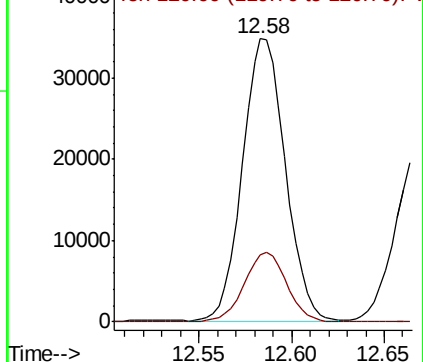
91 100

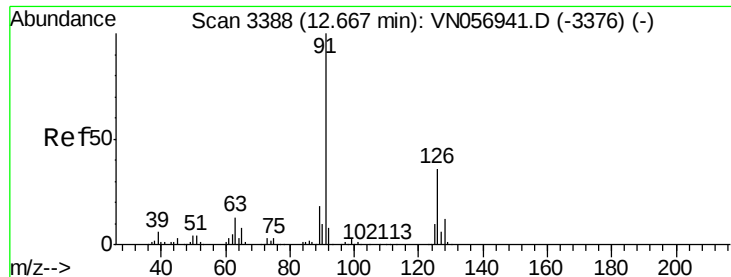
120 24.1 11.8 35.4



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 2.864 ug/l

RT: 12.67 min Scan# 3388

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

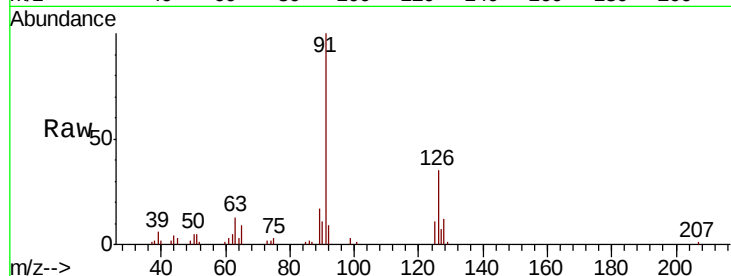
MDL-MDL-WATER-03-QT3-2019

Tot Ion: 91 Resp: 37048

Ion Ratio Lower Upper

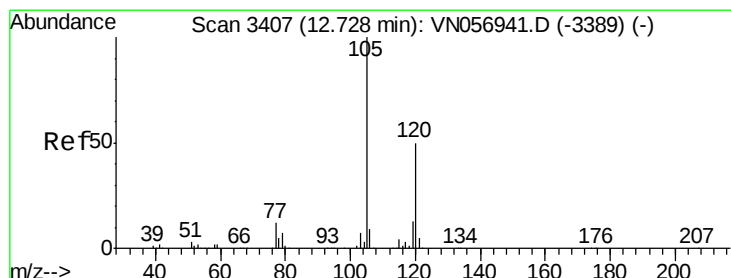
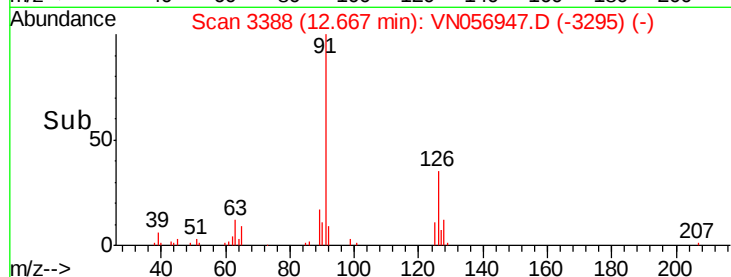
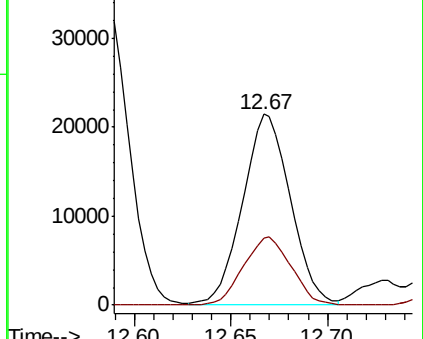
91 100

126 35.3 17.9 53.7



Abundance Ion 91.00 (90.70 to 91.70): VN056947.D (-3376) (-)

Ion 125.90 (125.60 to 126.60): VN056947.D (-3376) (-)



#80

1,3,5-Trimethylbenzene

Concen: 2.860 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN056947.D

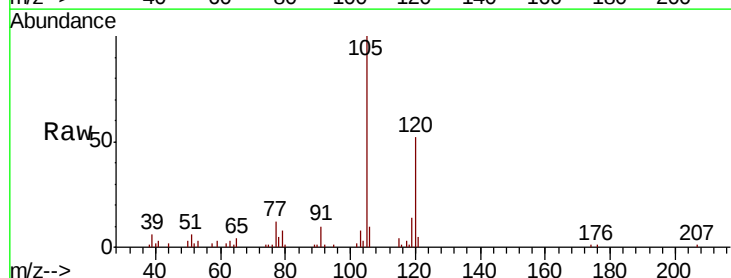
Acq: 26 Jul 2019 17:27

Tgt Ion: 105 Resp: 46177

Ion Ratio Lower Upper

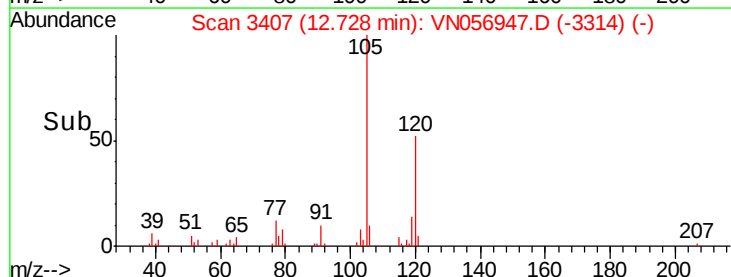
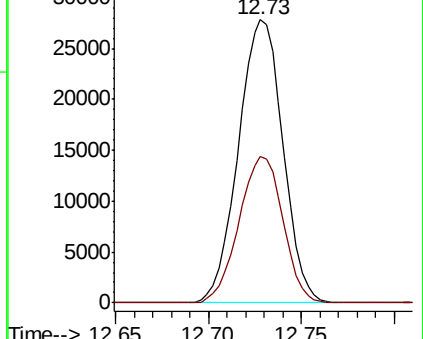
105 100

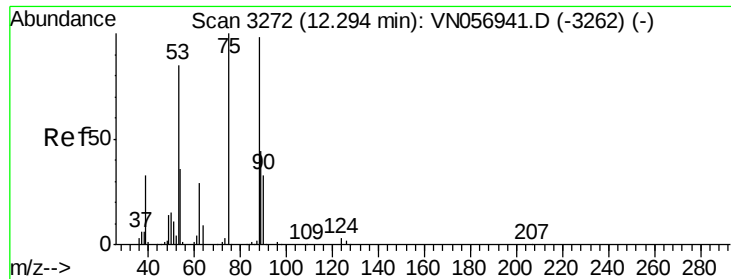
120 51.0 24.8 74.3



Abundance Ion 105.00 (104.70 to 105.70): VN056947.D (-3389) (-)

Ion 120.00 (119.70 to 120.70): VN056947.D (-3389) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 92.072 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

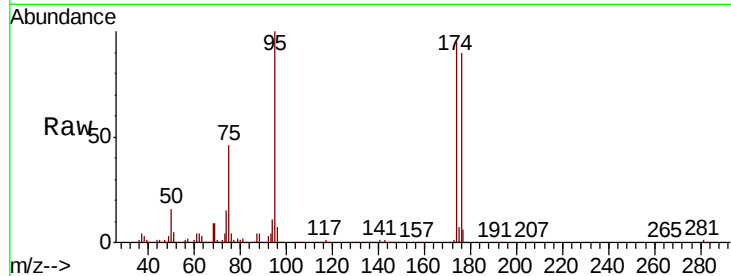
Tot Ion: 75 Resp: 132488

Ion Ratio Lower Upper

75 100

53 0.0 69.3 103.9#

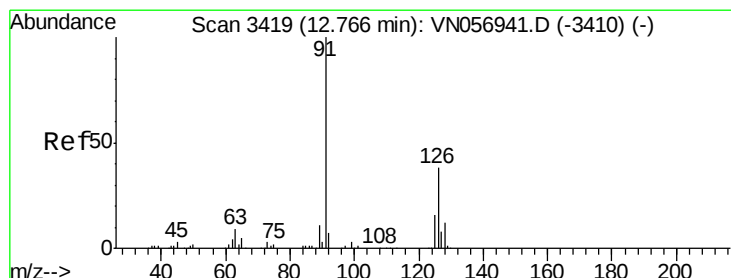
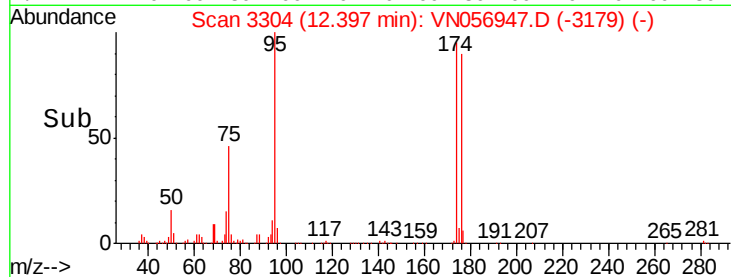
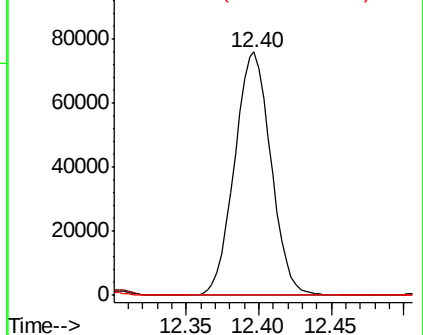
89 0.0 35.8 53.6#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#82

4-Chlorotoluene

Concen: 2.660 ug/l

RT: 12.77 min Scan# 3419

Delta R.T. 0.00 min

Lab File: VN056947.D

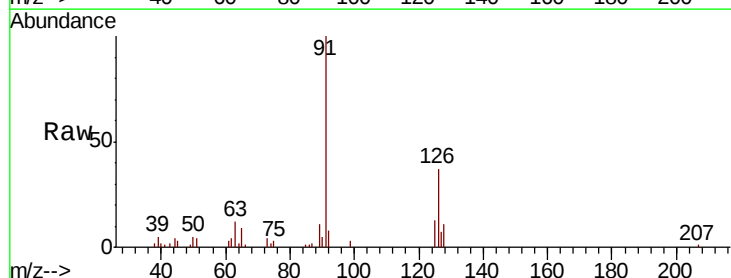
Acq: 26 Jul 2019 17:27

Tgt Ion: 91 Resp: 32203

Ion Ratio Lower Upper

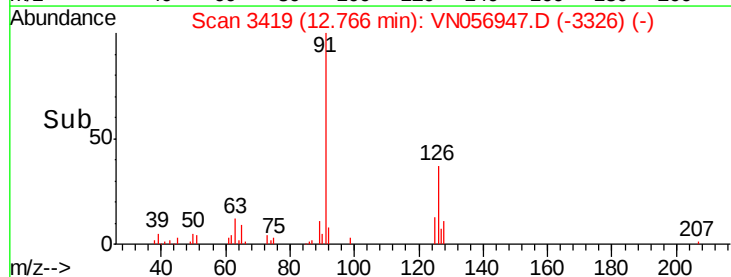
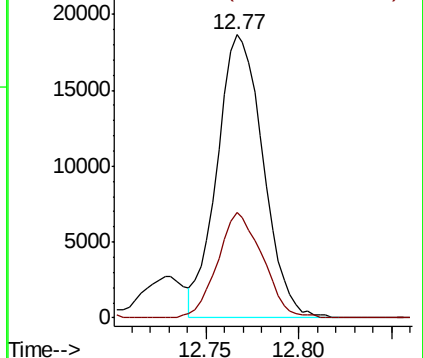
91 100

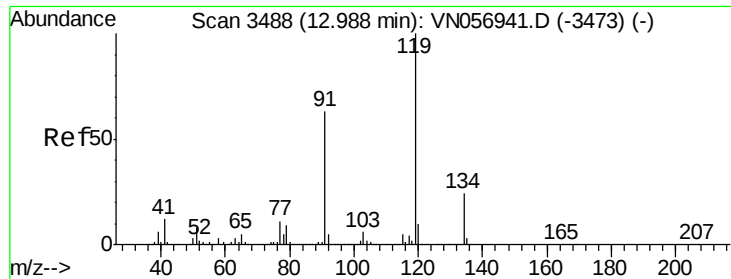
126 36.2 17.5 52.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V





#83

tert-Butylbenzene

Concen: 2.929 ug/l

RT: 12.99 min Scan# 3489

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

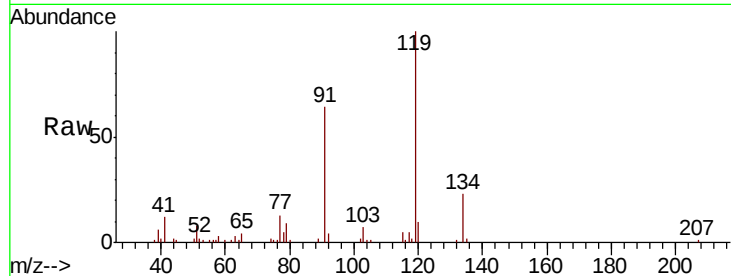
Tot Ion:119 Resp: 41877

Ion Ratio Lower Upper

119 100

91 64.7 31.3 93.8

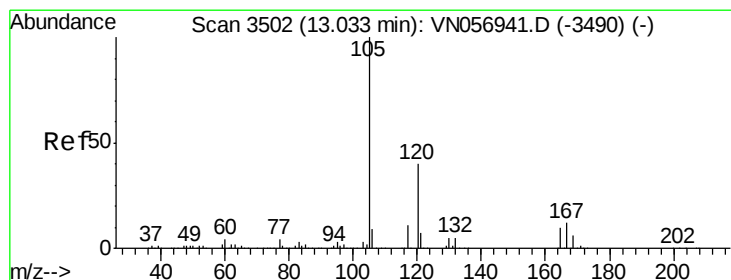
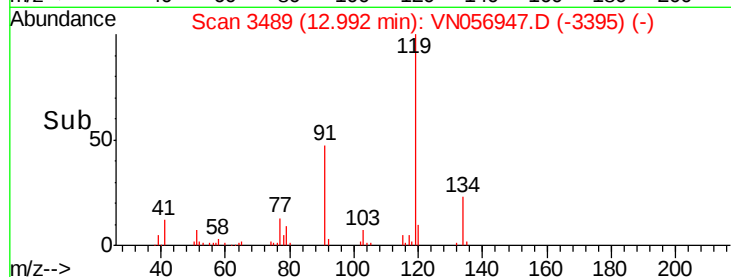
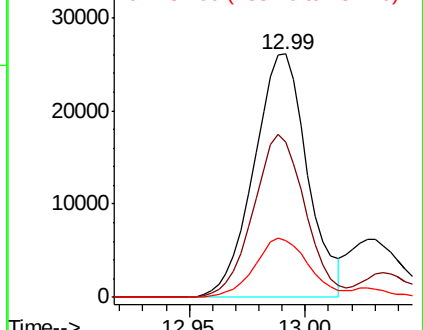
134 24.6 13.3 39.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VN

Ion 134.00 (133.70 to 134.70): V



#84

1,2,4-Trimethylbenzene

Concen: 2.764 ug/l

RT: 13.04 min Scan# 3503

Delta R.T. 0.00 min

Lab File: VN056947.D

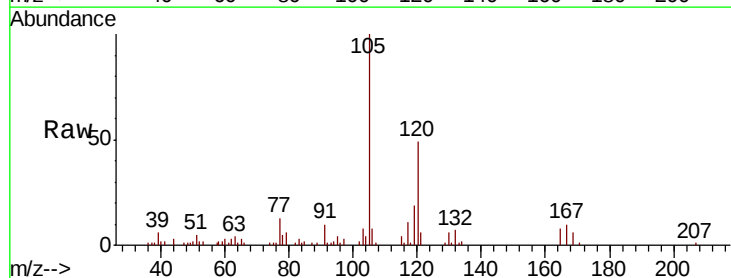
Acq: 26 Jul 2019 17:27

Tgt Ion:105 Resp: 42946

Ion Ratio Lower Upper

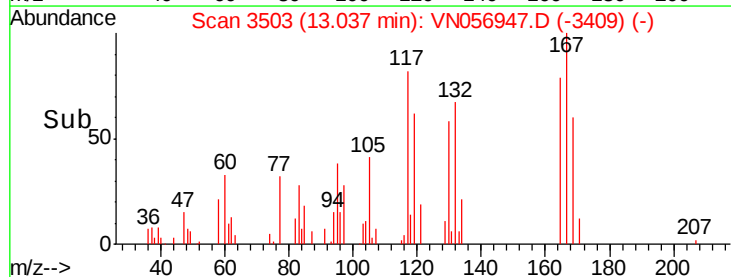
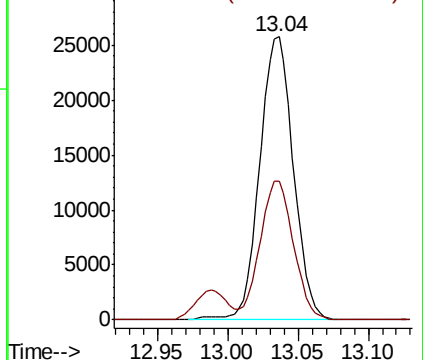
105 100

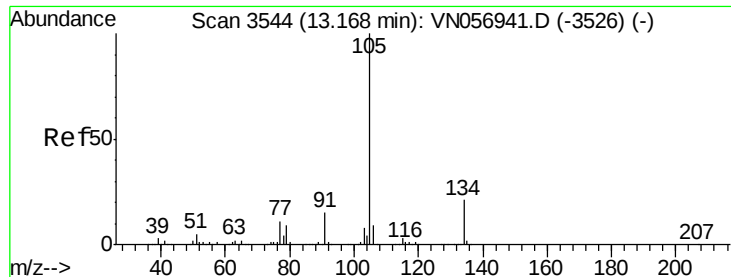
120 48.6 23.2 69.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 2.776 ug/l

RT: 13.17 min Scan# 3544

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

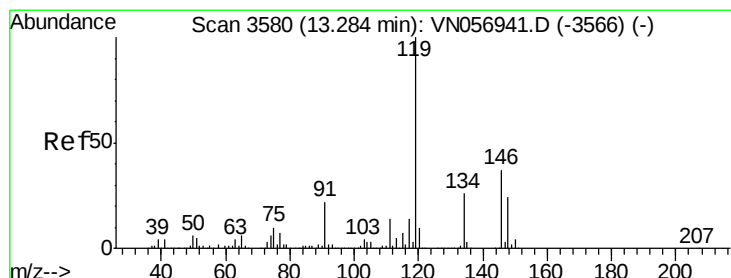
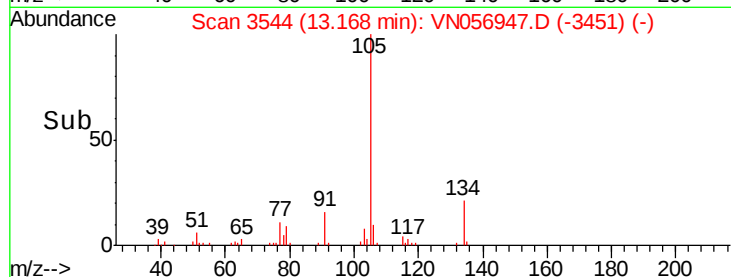
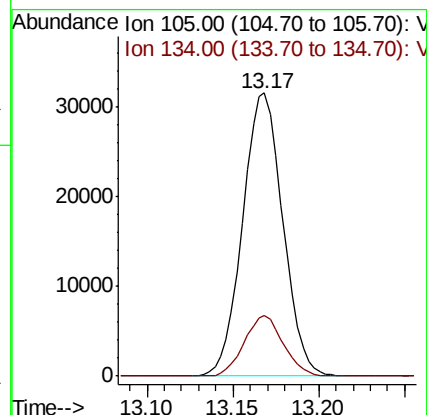
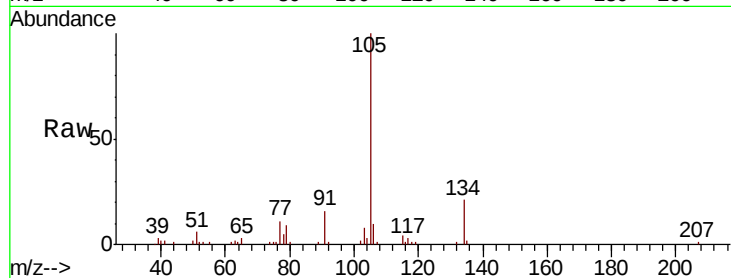
MDL-MDL-WATER-03-QT3-2019

Tot Ion:105 Resp: 51182

Ion Ratio Lower Upper

105 100

134 20.7 10.3 30.8



#86

p-Isopropyltoluene

Concen: 2.734 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

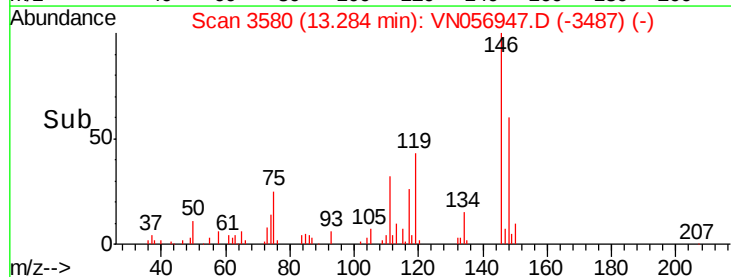
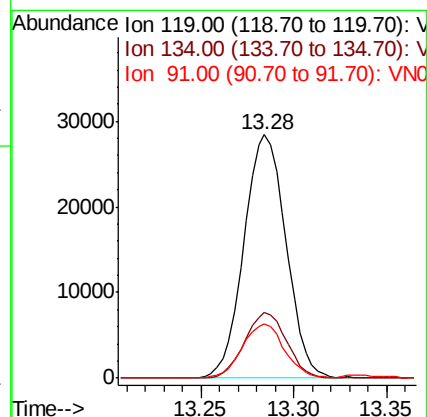
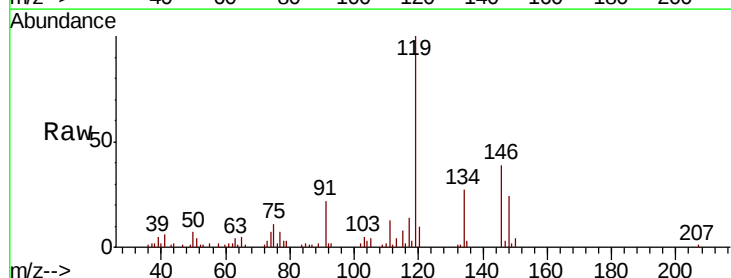
Tgt Ion:119 Resp: 44761

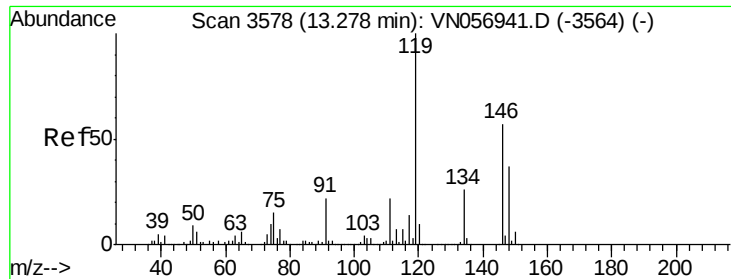
Ion Ratio Lower Upper

119 100

134 26.8 13.4 40.1

91 22.3 11.0 33.0

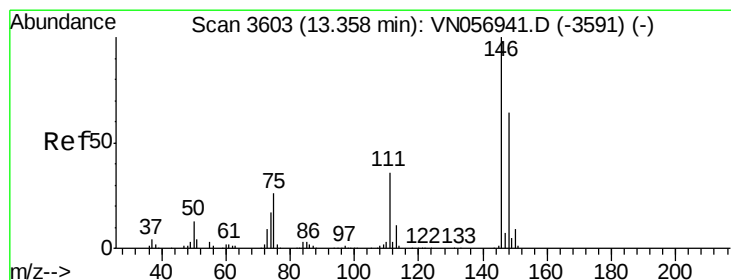
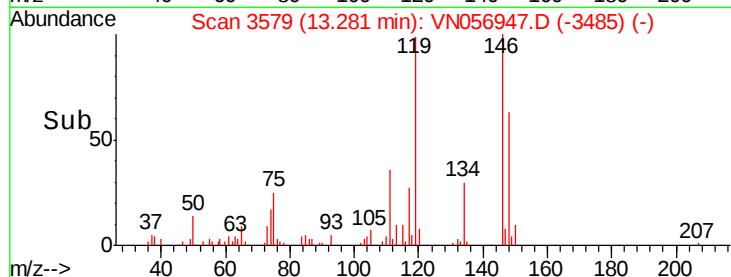
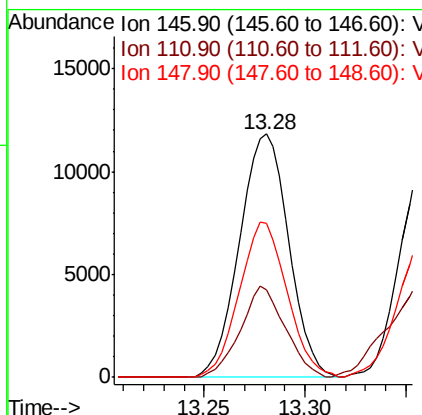
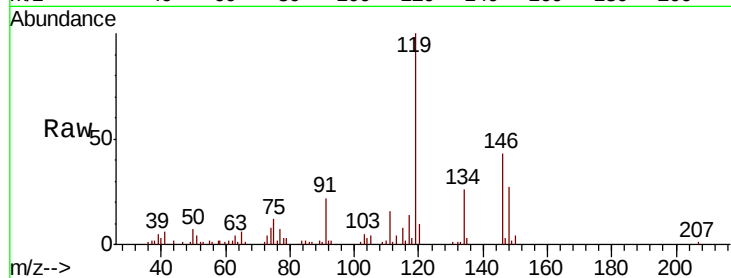




#87
 1,3-Dichlorobenzene
 Concen: 2.585 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

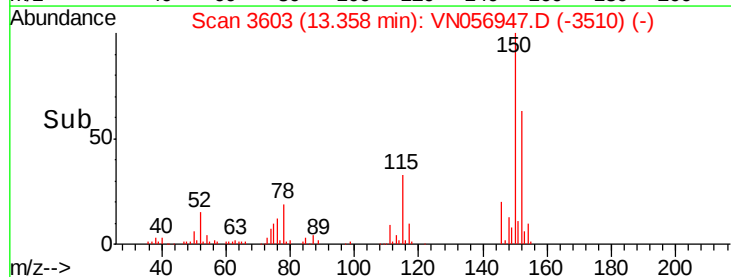
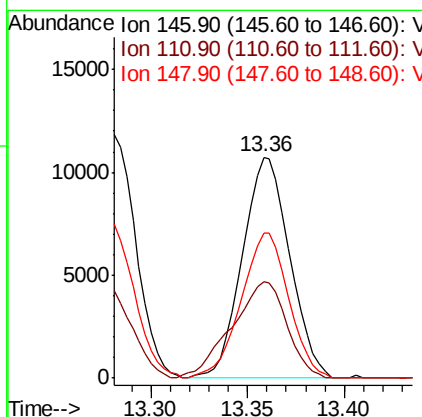
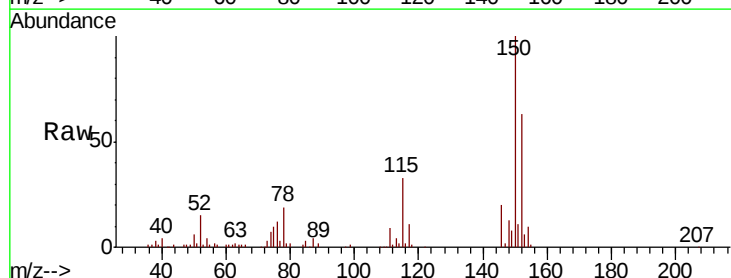
Instrument :
 MSVOA_N
 ClientSampleId :
 MDL-MDL-WATER-03-QT3-2019

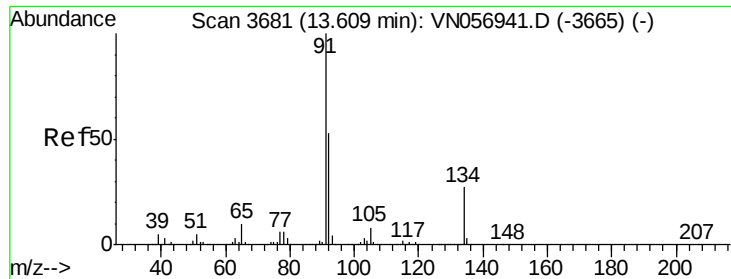
Tot Ion:146 Resp: 20195
 Ion Ratio Lower Upper
 146 100
 111 34.0 18.6 55.8
 148 62.1 32.2 96.6



#88
 1,4-Dichlorobenzene
 Concen: 2.427 ug/l
 RT: 13.36 min Scan# 3603
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

Tgt Ion:146 Resp: 18253
 Ion Ratio Lower Upper
 146 100
 111 50.9 18.4 55.2
 148 65.8 32.3 96.9





#89

n-Butylbenzene

Concen: 2.402 ug/l

RT: 13.61 min Scan# 3682

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument:

MSVOA_N

ClientSampleId:

MDL-MDL-WATER-03-QT3-2019

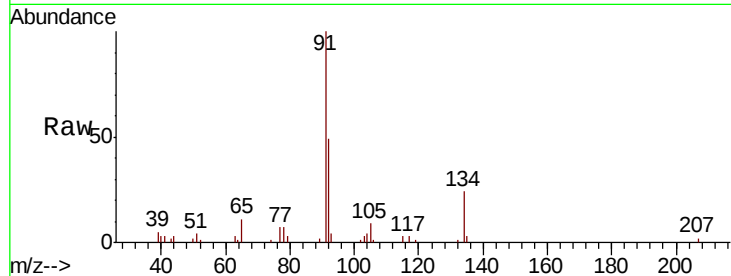
Tot Ion: 91 Resp: 30309

Ion Ratio Lower Upper

91 100

92 51.6 26.2 78.5

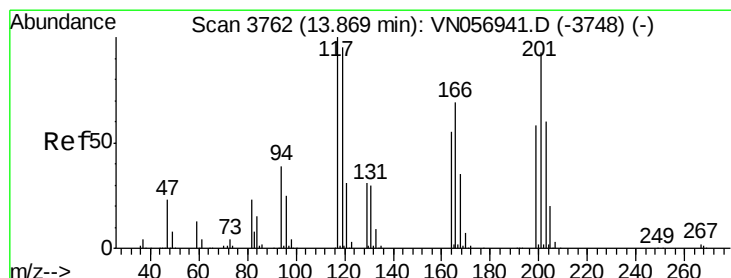
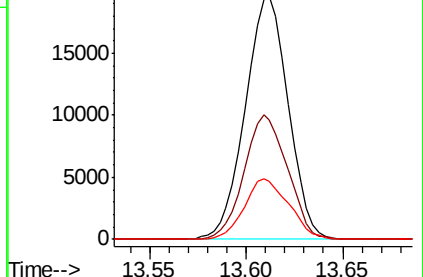
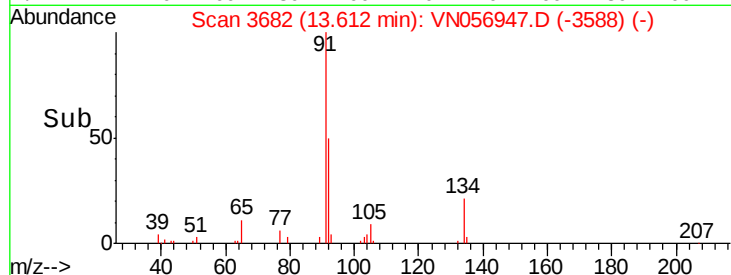
134 25.8 13.5 40.4



Abundance Ion 91.00 (90.70 to 91.70): VN056947.D (-3665) (-)

Ion 92.00 (91.70 to 92.70): VN056947.D (-3665) (-)

Ion 134.00 (133.70 to 134.70): VN056947.D (-3665) (-)



#90

Hexachloroethane

Concen: 2.636 ug/l

RT: 13.87 min Scan# 3762

Delta R.T. 0.00 min

Lab File: VN056947.D

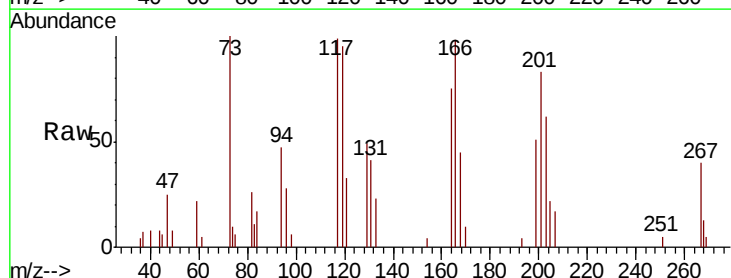
Acq: 26 Jul 2019 17:27

Tgt Ion: 117 Resp: 7431

Ion Ratio Lower Upper

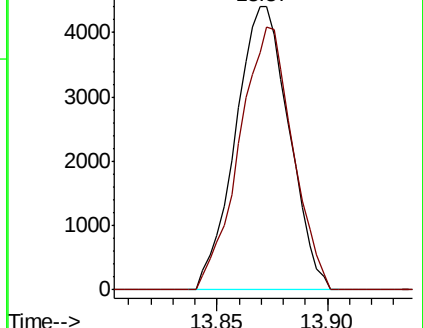
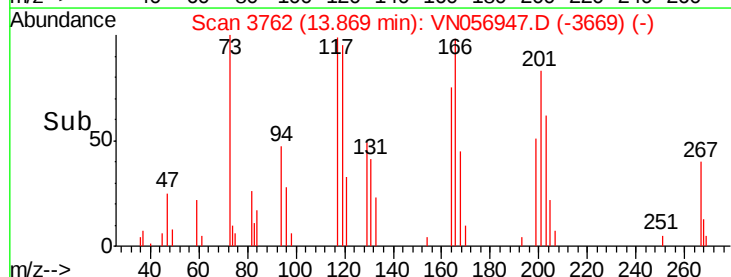
117 100

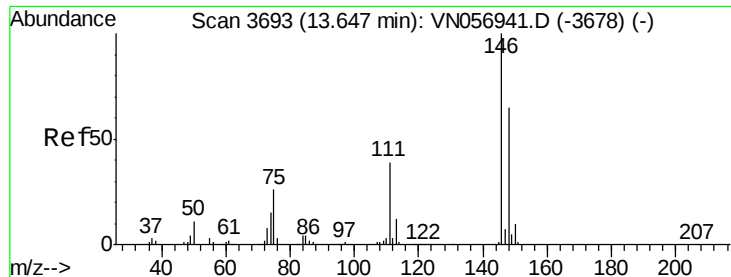
201 92.1 47.0 141.2



Abundance Ion 116.80 (116.50 to 117.50): VN056947.D (-3669) (-)

Ion 200.70 (200.40 to 201.40): VN056947.D (-3669) (-)





#91

1,2-Dichlorobenzene

Concen: 2.626 ug/l

RT: 13.65 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

Instrument :

MSVOA_N

ClientSampleId :

MDL-MDL-WATER-03-QT3-2019

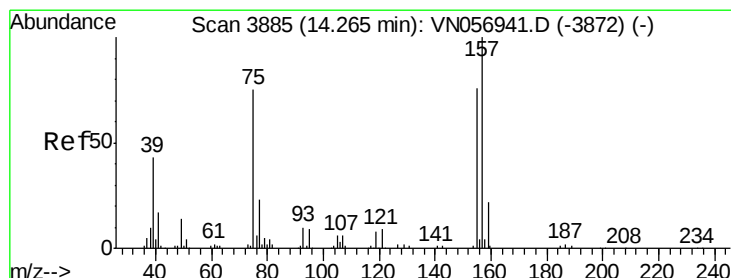
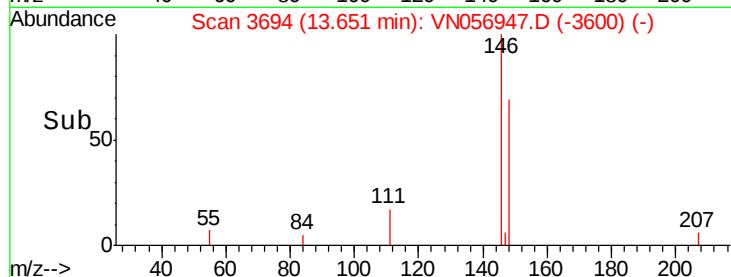
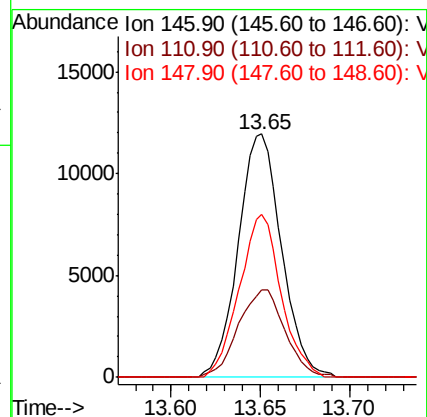
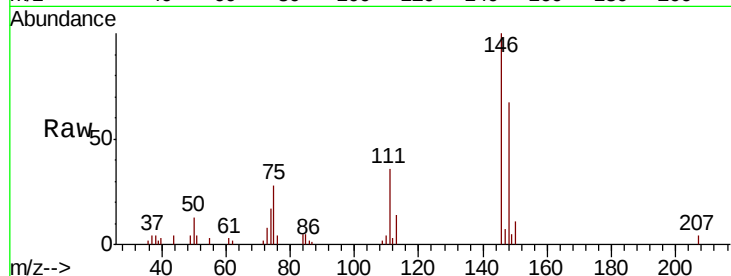
Tot Ion:146 Resp: 20191

Ion Ratio Lower Upper

146 100

111 38.9 19.4 58.4

148 64.9 32.2 96.6



#92

1,2-Dibromo-3-Chloropropane

Concen: 2.662 ug/l

RT: 14.26 min Scan# 3884

Delta R.T. -0.00 min

Lab File: VN056947.D

Acq: 26 Jul 2019 17:27

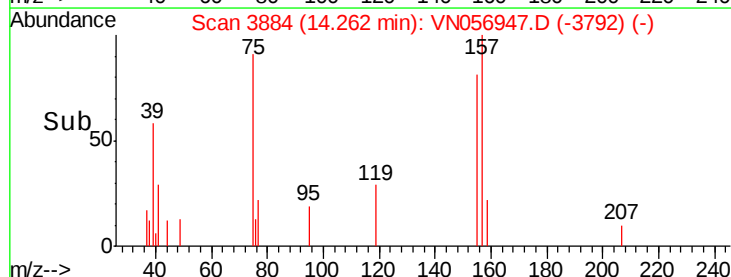
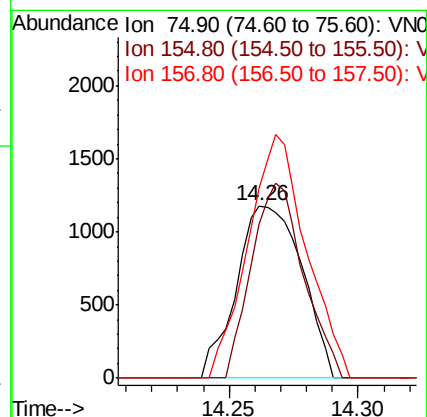
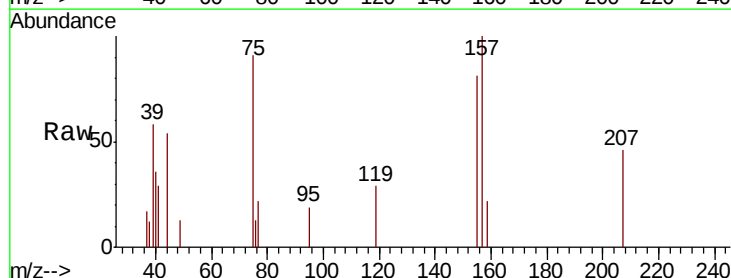
Tgt Ion: 75 Resp: 2083

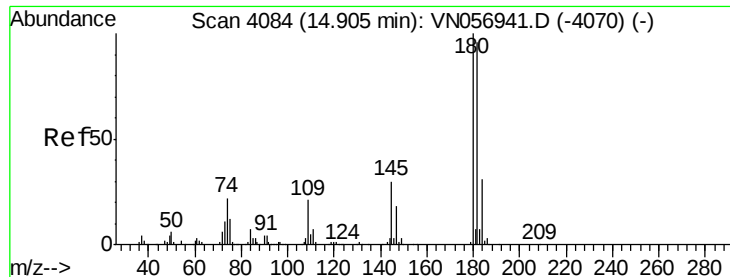
Ion Ratio Lower Upper

75 100

155 89.7 50.2 150.6

157 125.9 65.1 195.4

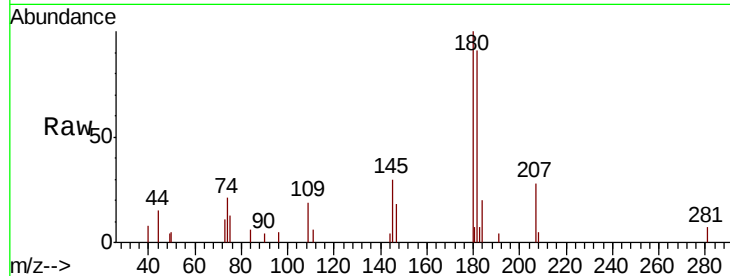




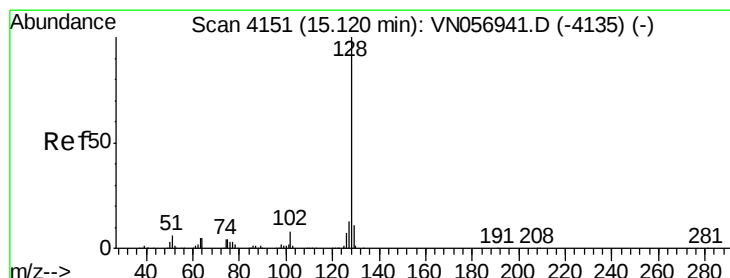
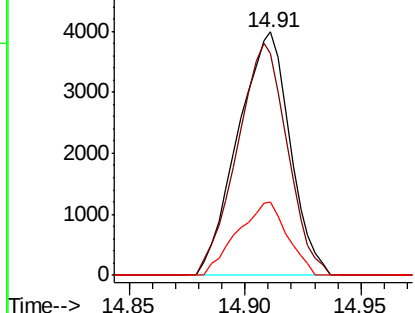
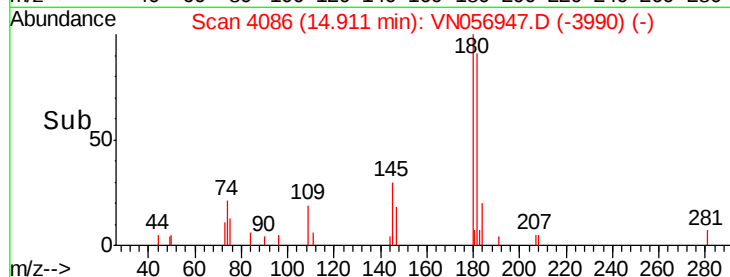
#93
 1,2,4-Trichlorobenzene
 Concen: 4.194 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.01 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

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

Tot Ion:180 Resp: 6218
 Ion Ratio Lower Upper
 180 100
 182 91.9 47.6 142.8
 145 28.8 14.2 42.8

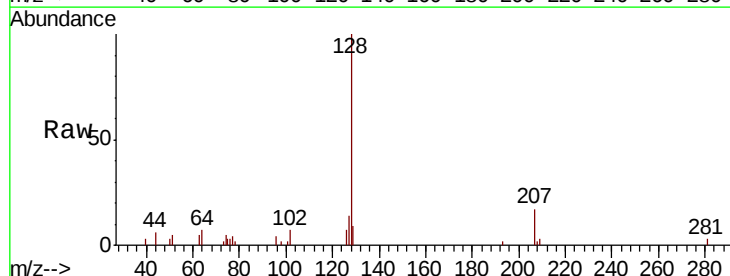


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

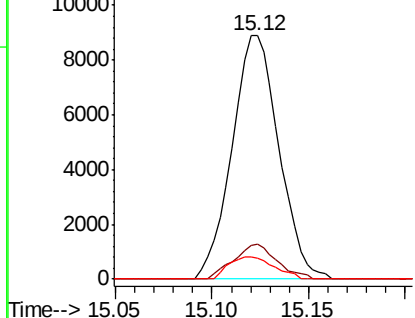
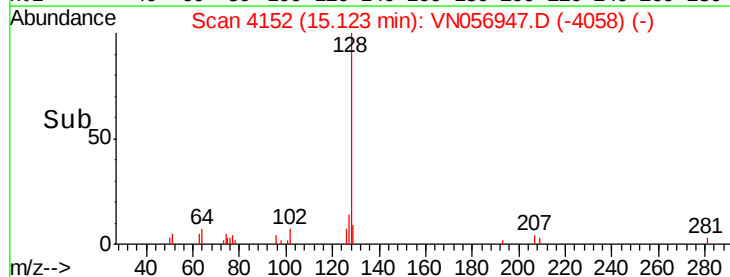


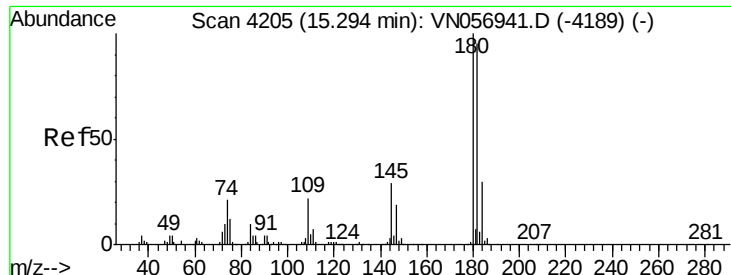
#95
 Naphthalene
 Concen: 5.023 ug/l
 RT: 15.12 min Scan# 4152
 Delta R.T. 0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

Tgt Ion:128 Resp: 14954
 Ion Ratio Lower Upper
 128 100
 127 13.2 10.0 15.0
 129 8.8 8.7 13.1



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





#96
 1,2,3-Trichlorobenzene
 Concen: 3.950 ug/l
 RT: 15.29 min Scan# 4204
 Delta R.T. -0.00 min
 Lab File: VN056947.D
 Acq: 26 Jul 2019 17:27

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

Tot Ion	Ratio	Lower	Upper
180	100		
182	93.2	48.0	144.2
145	30.7	15.0	45.0

