

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121918\
 Data File : VN053001.D
 Acq On : 19 Dec 2018 10:49
 Operator : MD\SY
 Sample : J6462-06 10X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 OILY-WATER

Quant Time: Dec 20 05:17:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1285569	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1962567	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1776185	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	774230	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	626132	47.99	ug/l	0.00
Spiked Amount			Recovery	=	95.98%	
35) Dibromofluoromethane	7.59	113	513368	57.26	ug/l	0.00
Spiked Amount			Recovery	=	114.52%	
50) Toluene-d8	10.09	98	2390334	49.67	ug/l	0.00
Spiked Amount			Recovery	=	99.34%	
62) 4-Bromofluorobenzene	12.40	95	816483	48.33	ug/l	0.00
Spiked Amount			Recovery	=	96.66%	

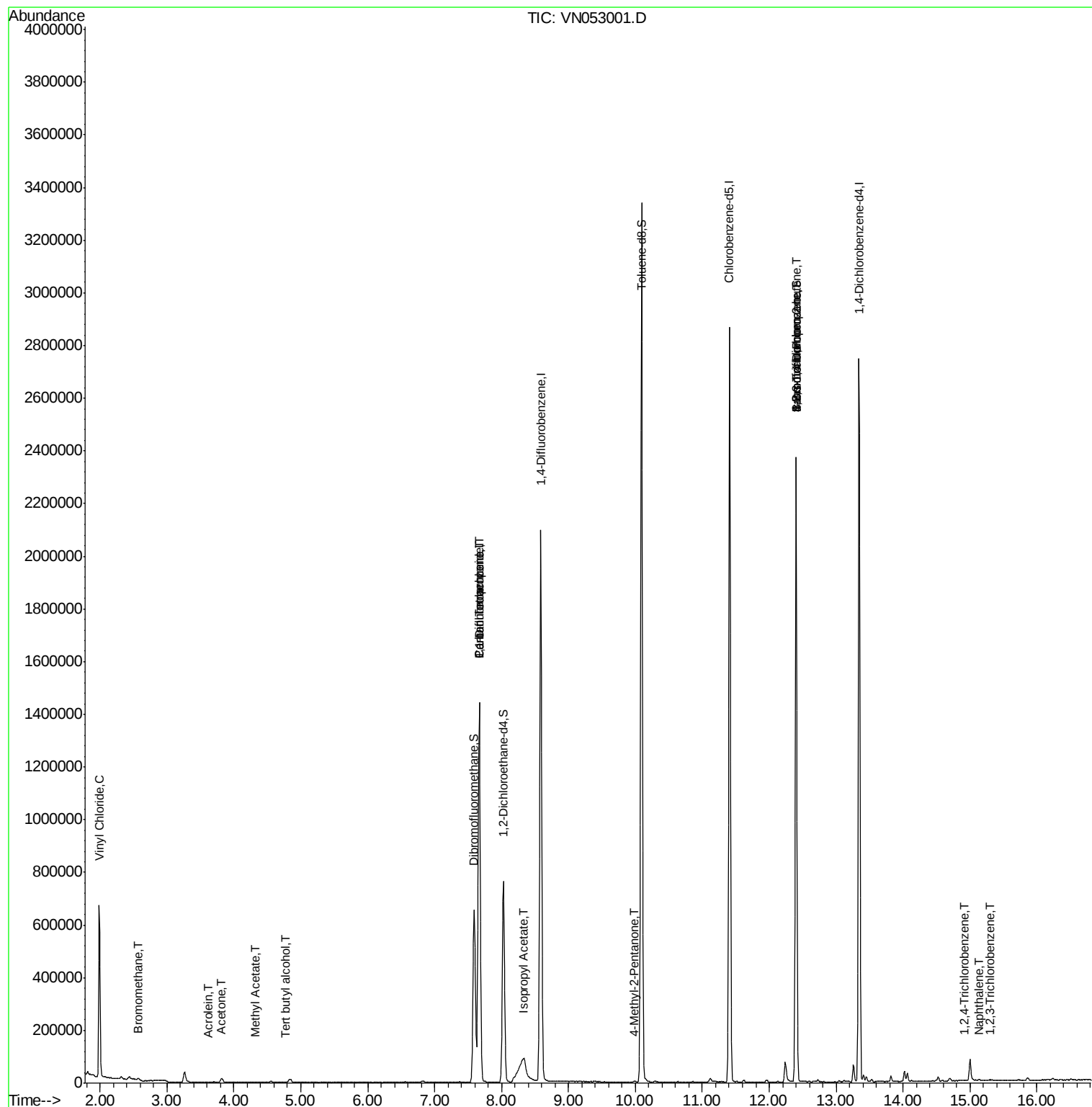
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	1.99	62	8048	0.504	ug/l #	43
5) Bromomethane	2.58	94	3295	0.298	ug/l	99
11) Tert butyl alcohol	4.77	59	454	0.570	ug/l #	74
13) Acrolein	3.60	56	204	0.283	ug/l #	14
16) Acetone	3.82	43	27085	10.589	ug/l	92
18) Methyl Acetate	4.33	43	4894	1.405	ug/l #	69
31) Cyclohexane	7.67	56	20756	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	82678	4.389	ug/l #	49
38) Carbon Tetrachloride	7.67	117	111045	6.431	ug/l #	16
43) Isopropyl Acetate	8.33	43	255728	11.768	ug/l #	53
51) 4-Methyl-2-Pentanone	9.98	43	4534	0.445	ug/l #	81
71) Bromoform	12.40	173	5627	0.569	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	380176	29.169	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	380176	94.017	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	443	0.628	ug/l	62
94) Hexachlorobutadiene	15.01	225	30	Below Cal	#	1
95) Naphthalene	15.13	128	3547	1.260	ug/l	98
96) 1,2,3-Trichlorobenzene	15.30	180	517	0.549	ug/l #	91

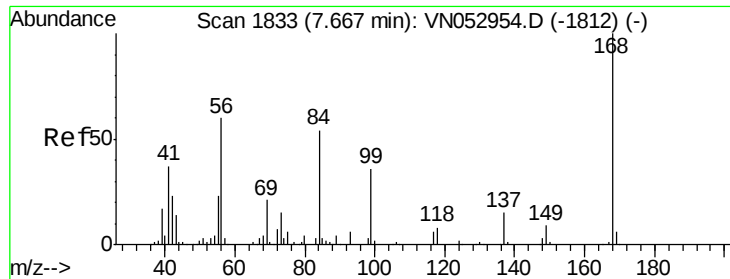
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053001.D

Acq: 19 Dec 2018 10:49

Instrument :

MSVOA_N

ClientSampleId :

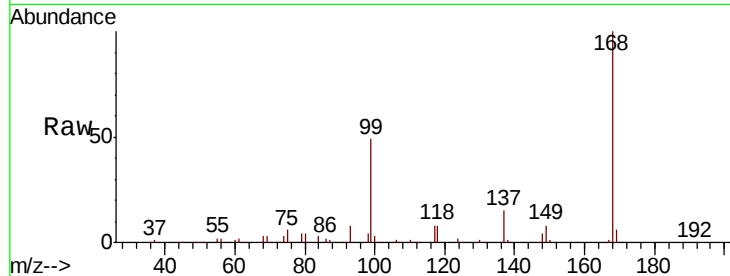
OILY-WATER

Tot Ion:168 Resp: 1285569

Ion Ratio Lower Upper

168 100

99 49.1 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN052954.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN052954.D (-1812) (-)

7.67

600000

500000

400000

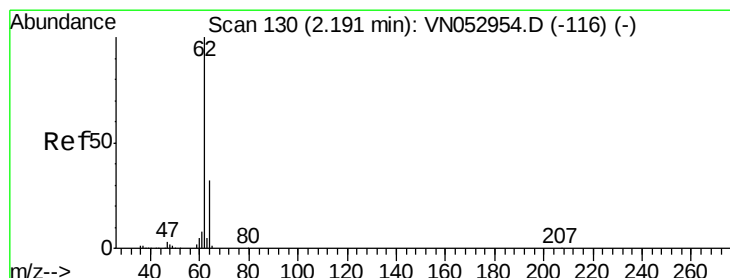
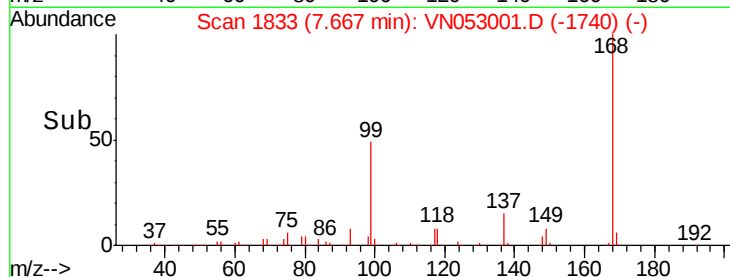
300000

200000

100000

0

Time-->



#4

Vinyl Chloride

Concen: 0.504 ug/l

RT: 1.99 min Scan# 67

Delta R.T. -0.20 min

Lab File: VN053001.D

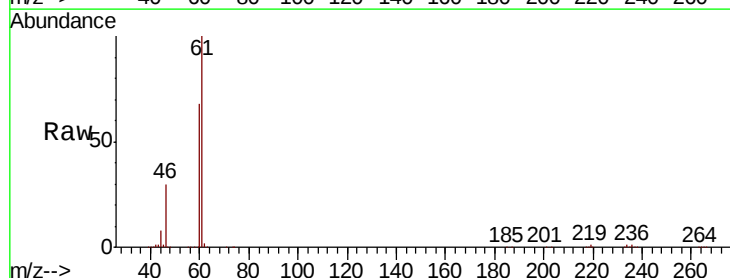
Acq: 19 Dec 2018 10:49

Tgt Ion: 62 Resp: 8048

Ion Ratio Lower Upper

62 100

64 0.0 25.5 38.3#



Abundance Ion 61.90 (61.60 to 62.60): VN052954.D (-116) (-)

Ion 63.90 (63.60 to 64.60): VN052954.D (-116) (-)

1.99

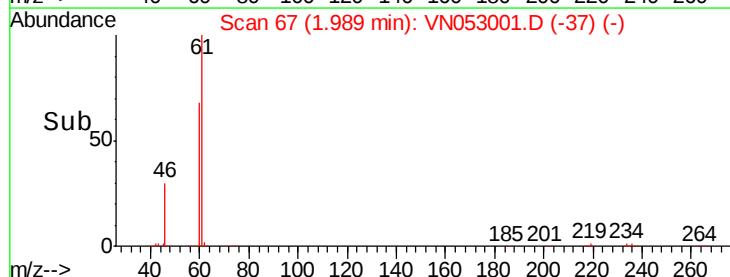
6000

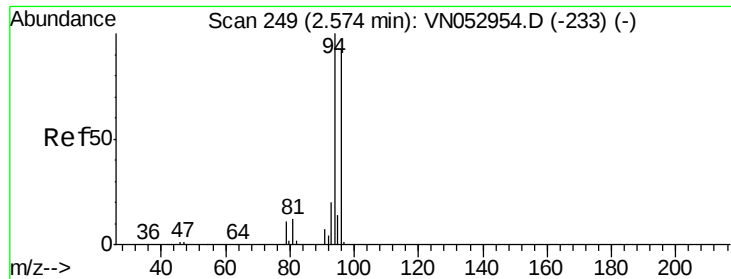
4000

2000

0

Time-->





#5

Bromomethane

Concen: 0.298 ug/l

RT: 2.58 min Scan# 251

Delta R.T. 0.01 min

Lab File: VN053001.D

Acq: 19 Dec 2018 10:49

Instrument :

MSVOA_N

ClientSampleId :

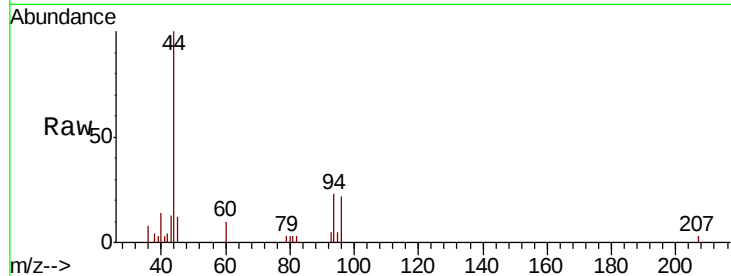
OILY-WATER

Tot Ion: 94 Resp: 3295

Ion Ratio Lower Upper

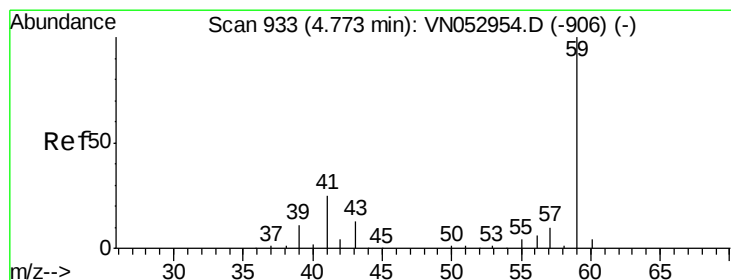
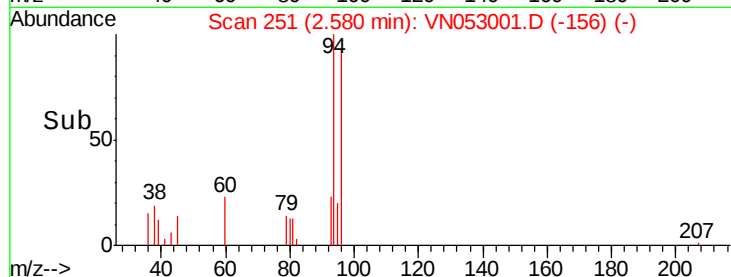
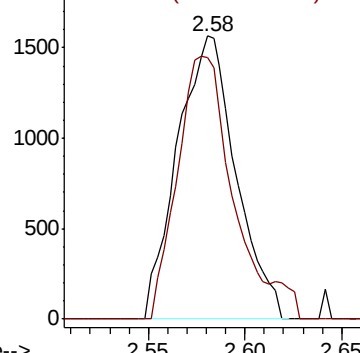
94 100

96 92.6 75.0 112.4



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#11

Tert butyl alcohol

Concen: 0.570 ug/l

RT: 4.77 min Scan# 932

Delta R.T. -0.00 min

Lab File: VN053001.D

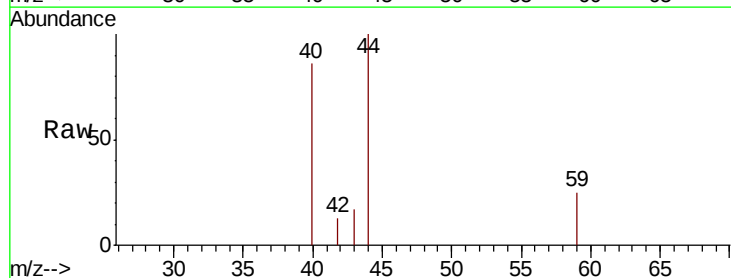
Acq: 19 Dec 2018 10:49

Tgt Ion: 59 Resp: 454

Ion Ratio Lower Upper

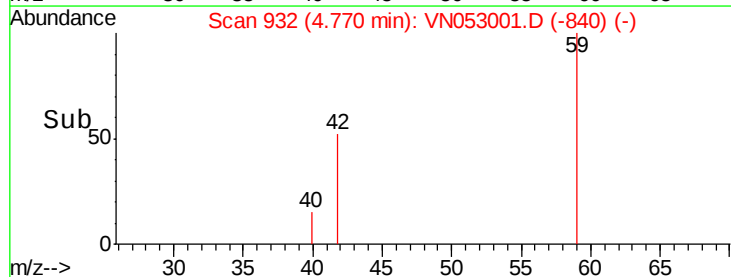
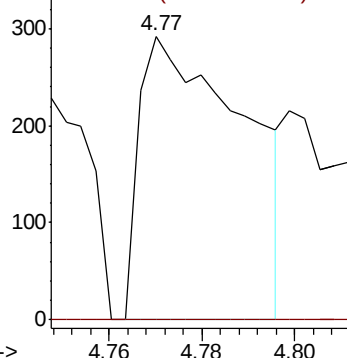
59 100

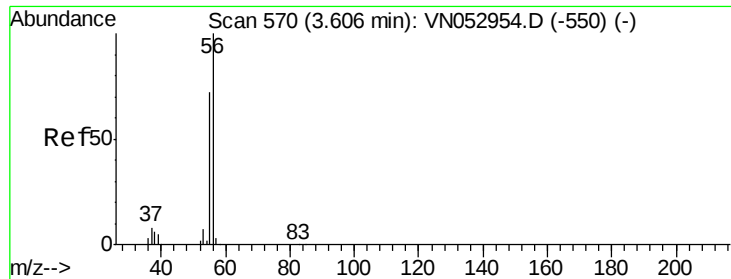
57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#13

Acrolein

Concen: 0.283 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN053001.D

Acq: 19 Dec 2018 10:49

Instrument :

MSVOA_N

ClientSampled :

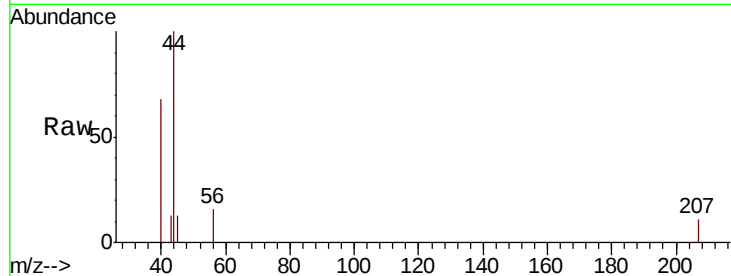
OILY-WATER

Tot Ion: 56 Resp: 204

Ion Ratio Lower Upper

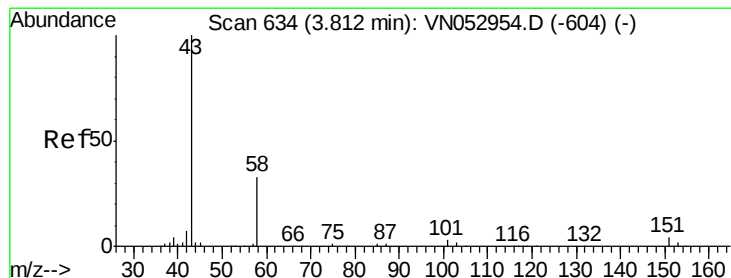
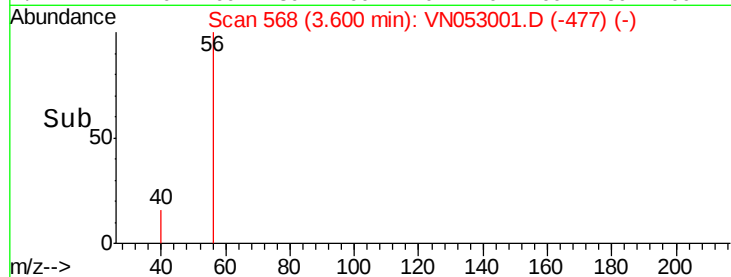
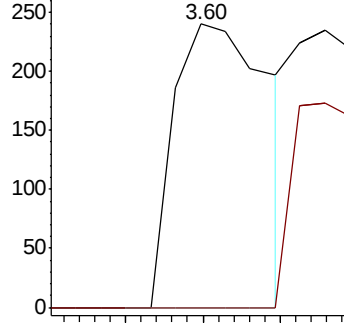
56 100

55 0.0 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 10.589 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053001.D

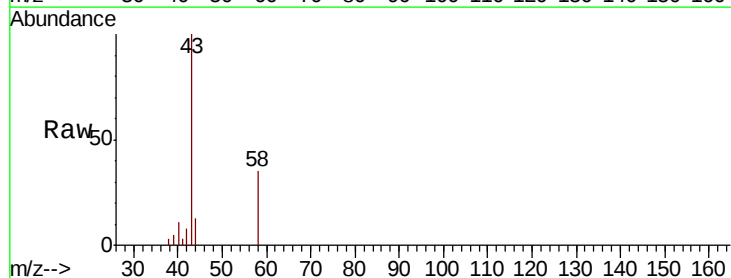
Acq: 19 Dec 2018 10:49

Tgt Ion: 43 Resp: 27085

Ion Ratio Lower Upper

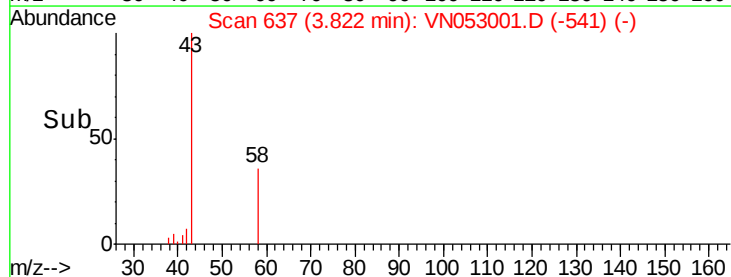
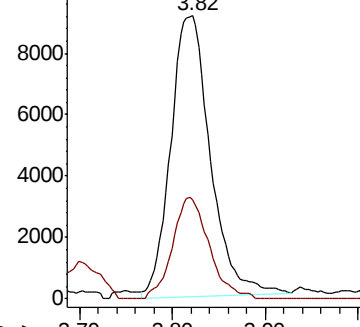
43 100

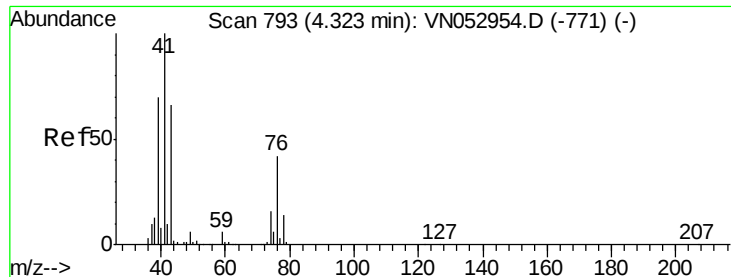
58 36.0 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

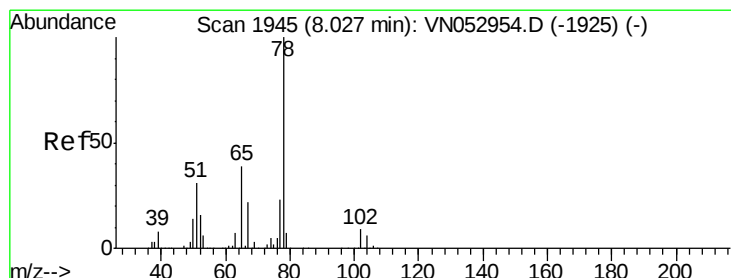
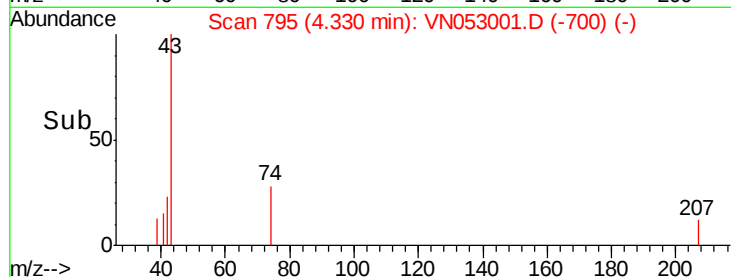
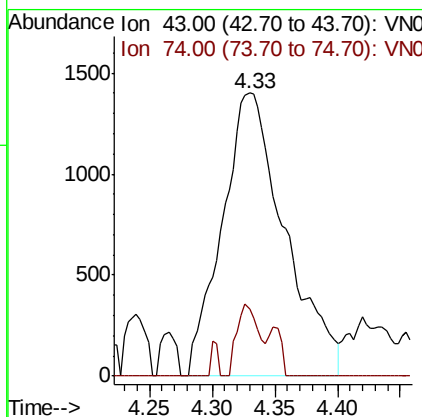
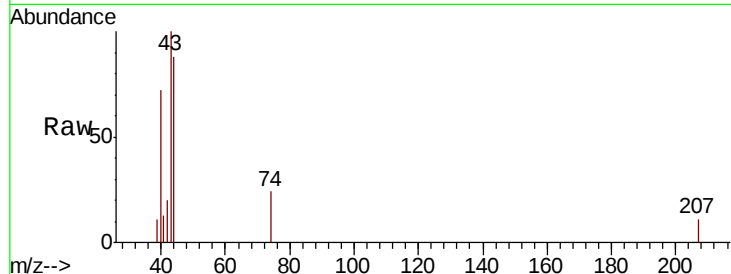




#18
Methyl Acetate
Concen: 1.405 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN053001.D
Acq: 19 Dec 2018 10:49

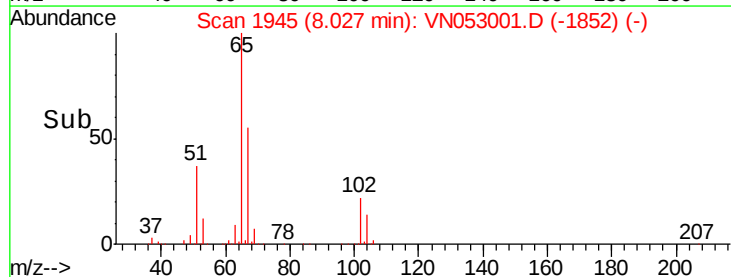
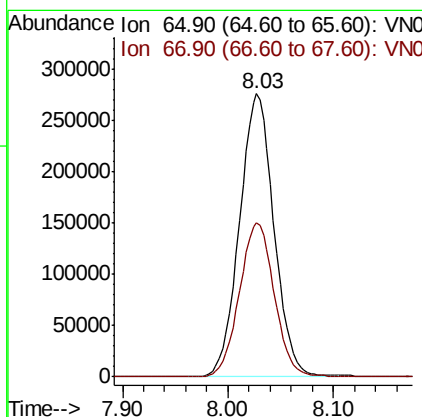
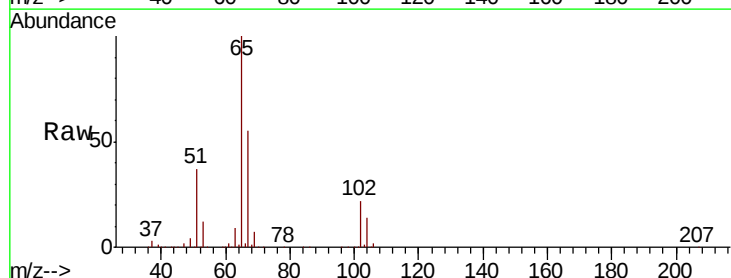
Instrument :
MSVOA_N
ClientSampled :
OILY-WATER

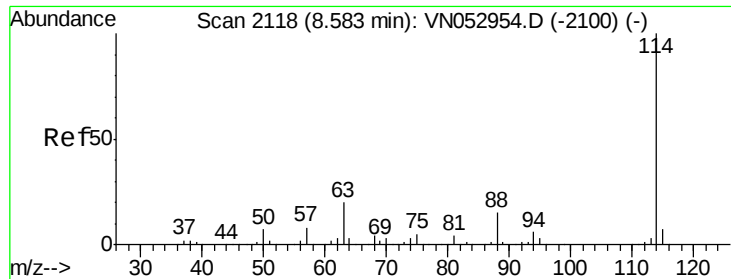
Tot Ion: 43 Resp: 4894
Ion Ratio Lower Upper
43 100
74 8.8 19.2 28.8#



#33
1,2-Dichloroethane-d4
Concen: Below ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN053001.D
Acq: 19 Dec 2018 10:49

Tgt Ion: 65 Resp: 626132
Ion Ratio Lower Upper
65 100
67 55.1 0.0 110.4

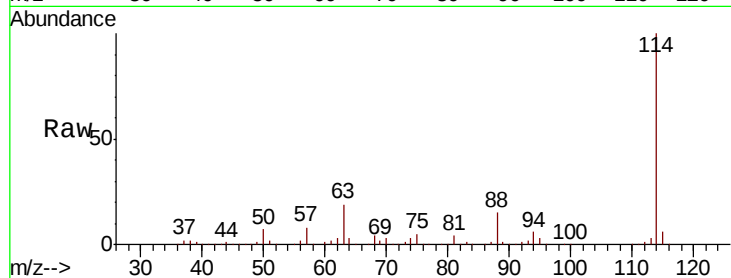




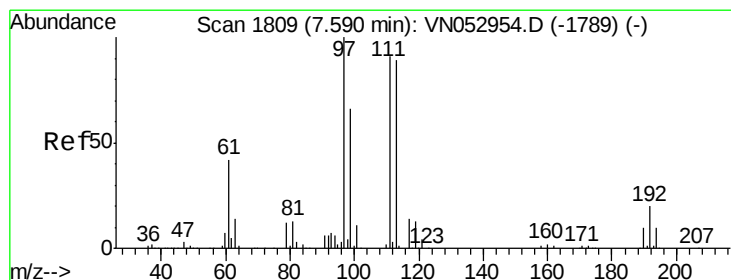
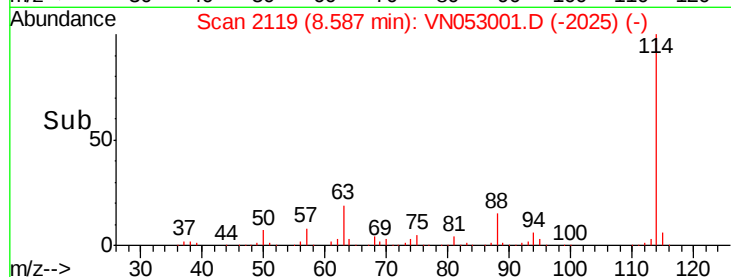
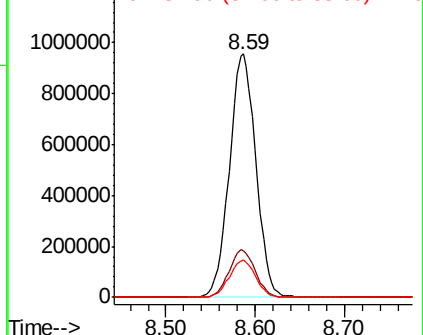
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.59 min Scan# 2119
Delta R.T. 0.00 min
Lab File: VN053001.D
Acq: 19 Dec 2018 10:49

Instrument :
MSVOA_N
ClientSampleId :
OILY-WATER

Tot Ion:114 Resp: 1962567
Ion Ratio Lower Upper
114 100
63 19.3 0.0 39.8
88 15.2 0.0 31.0

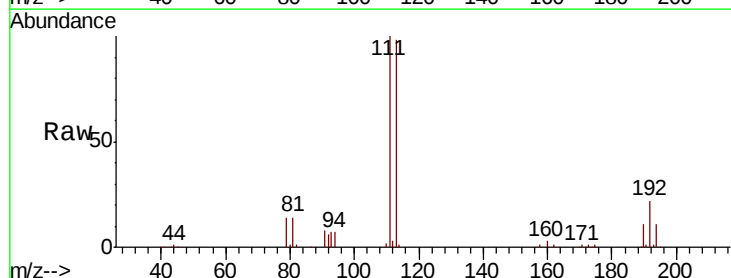


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

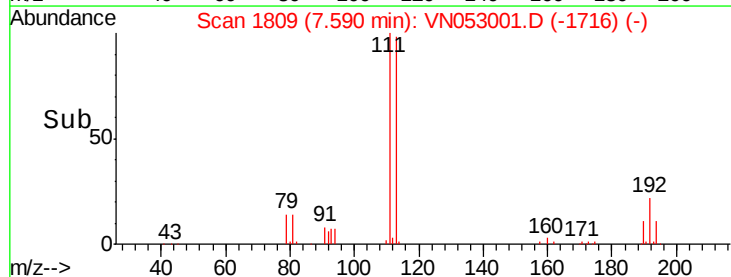
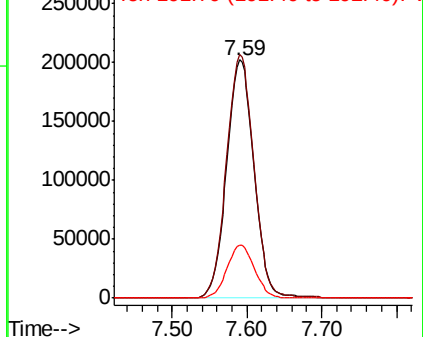


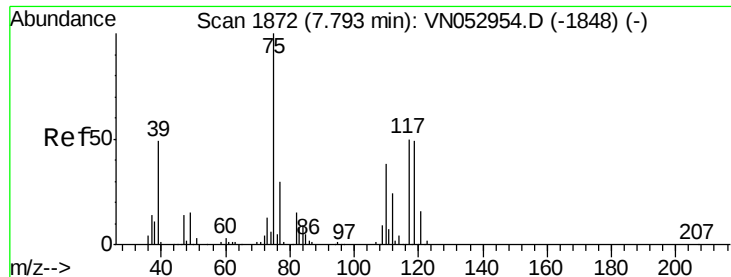
#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN053001.D
Acq: 19 Dec 2018 10:49

Tgt Ion:113 Resp: 513368
Ion Ratio Lower Upper
113 100
111 102.6 83.0 124.4
192 22.3 17.5 26.3



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

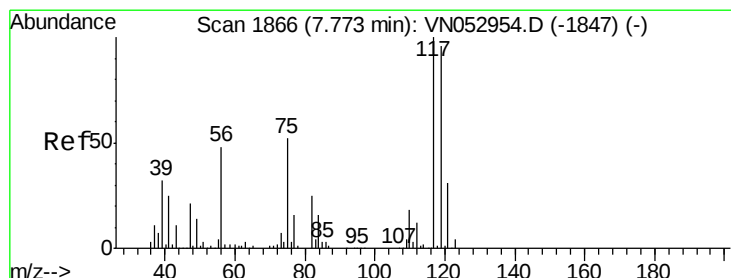
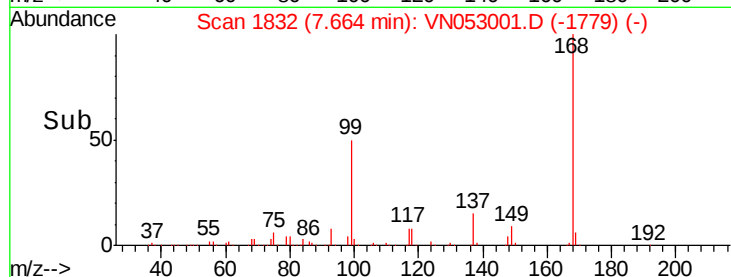
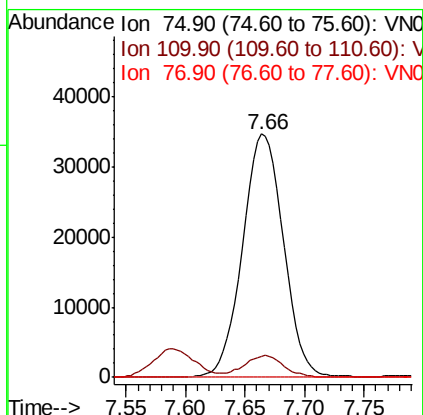
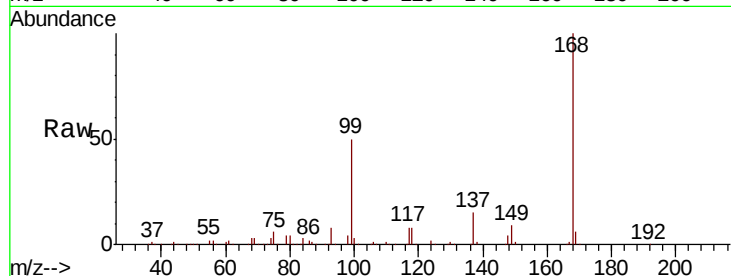




#36
 1,1-Dichloropropene
 Concen: 4.389 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053001.D
 Acq: 19 Dec 2018 10:49

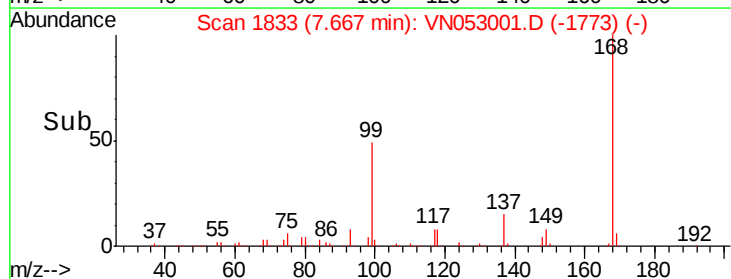
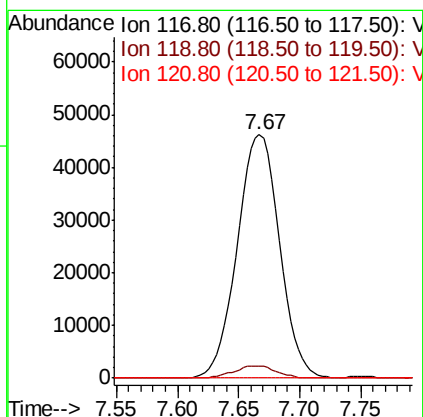
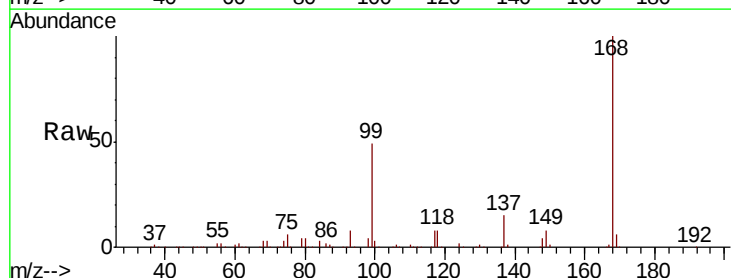
Instrument :
 MSVOA_N
 ClientSampled :
 OILY-WATER

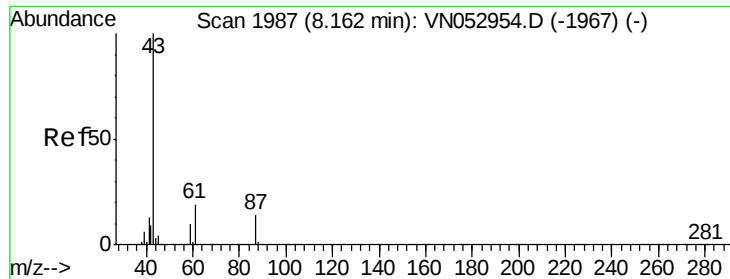
Tot Ion: 75 Resp: 82678
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.2 54.6#
 77 0.0 24.9 37.3#



#38
 Carbon Tetrachloride
 Concen: 6.431 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN053001.D
 Acq: 19 Dec 2018 10:49

Tgt Ion: 117 Resp: 111045
 Ion Ratio Lower Upper
 117 100
 119 5.0 77.1 115.7#
 121 0.0 24.9 37.3#





#43

Isopropyl Acetate

Concen: 11.768 ug/l

RT: 8.33 min Scan# 2040

Delta R.T. 0.17 min

Lab File: VN053001.D

Acq: 19 Dec 2018 10:49

Instrument :

MSVOA_N

ClientSampleId :

OILY-WATER

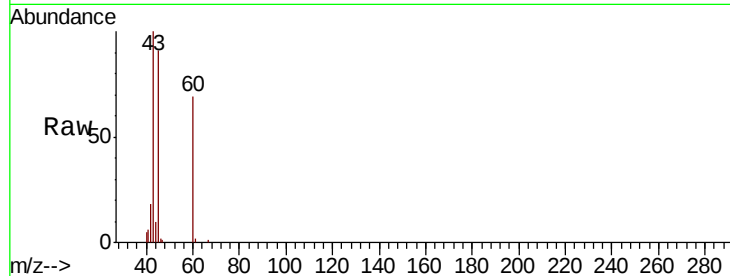
Tot Ion: 43 Resp: 255728

Ion Ratio Lower Upper

43 100

61 0.2 22.9 34.3#

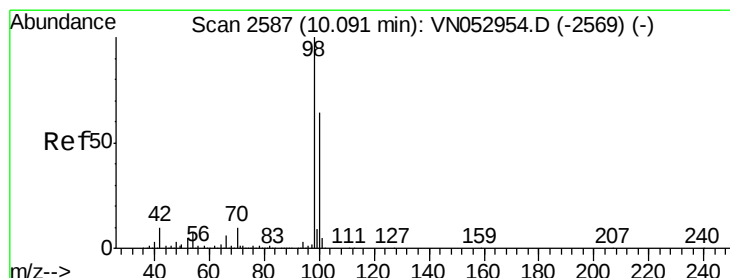
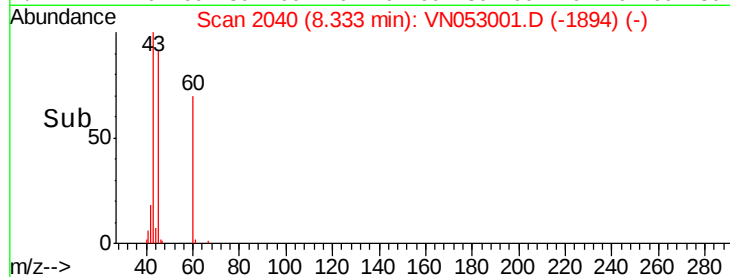
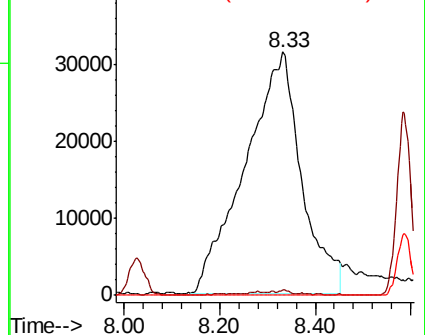
87 0.0 10.6 15.8#



Abundance Ion 43.00 (42.70 to 43.70): VNC

Ion 61.00 (60.70 to 61.70): VNC

Ion 87.00 (86.70 to 87.70): VNC



#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053001.D

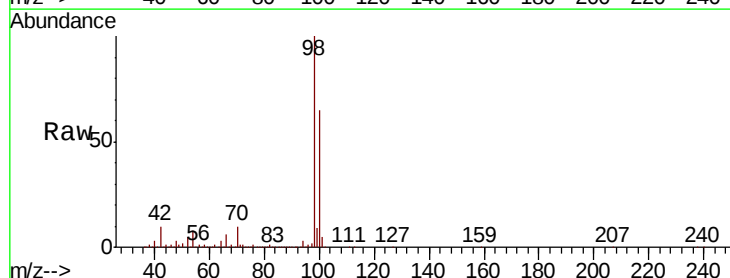
Acq: 19 Dec 2018 10:49

Tgt Ion: 98 Resp: 2390334

Ion Ratio Lower Upper

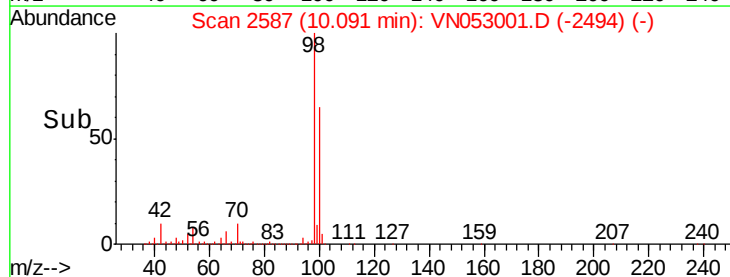
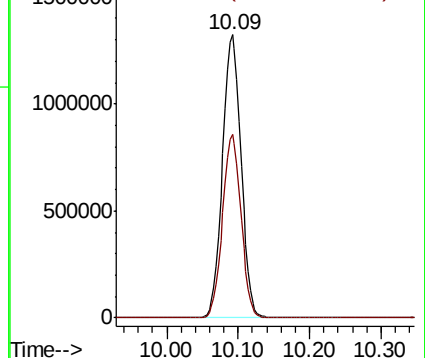
98 100

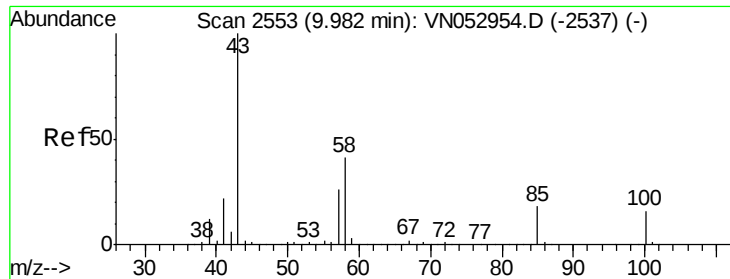
100 64.4 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VNC

Ion 100.00 (99.70 to 100.70): VNC





#51

4-Methyl-2-Pentanone

Concen: 0.445 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN053001.D

Acq: 19 Dec 2018 10:49

Instrument :

MSVOA_N

ClientSampled :

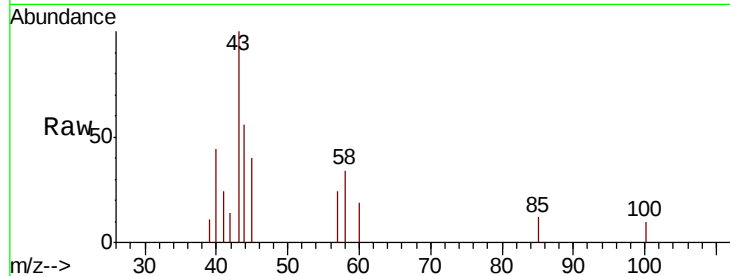
OILY-WATER

Tot Ion: 43 Resp: 4534

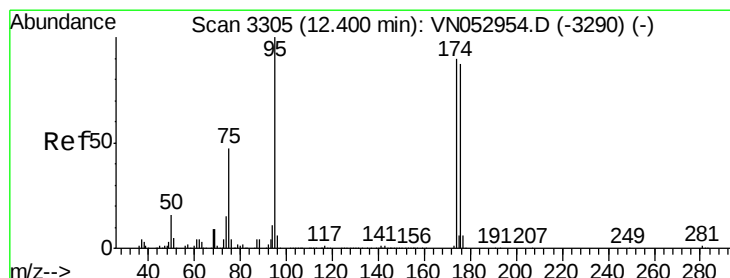
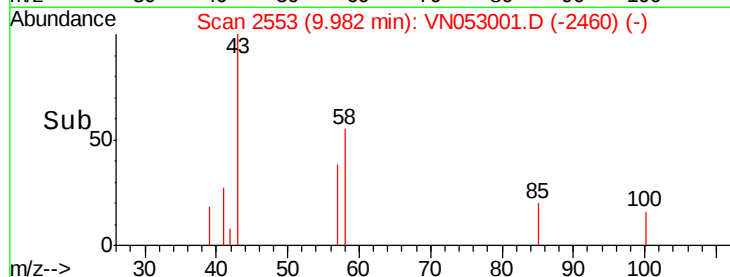
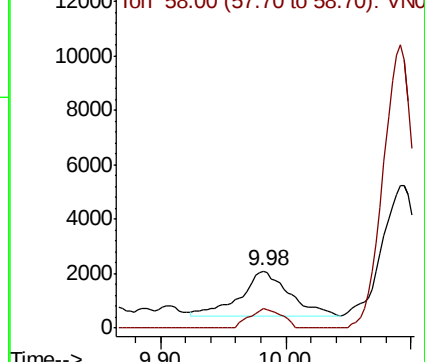
Ion Ratio Lower Upper

43 100

58 28.3 32.2 48.4#



Abundance Ion 43.00 (42.70 to 43.70): VN053001.D (-2460) (-)



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053001.D

Acq: 19 Dec 2018 10:49

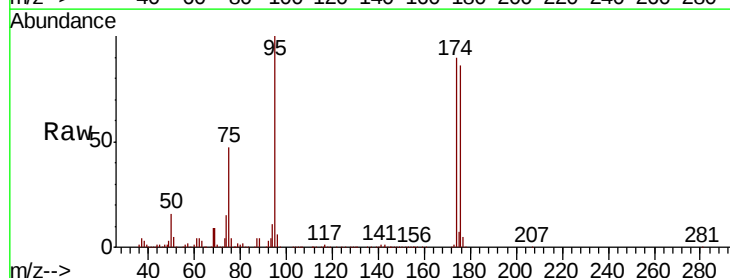
Tgt Ion: 95 Resp: 816483

Ion Ratio Lower Upper

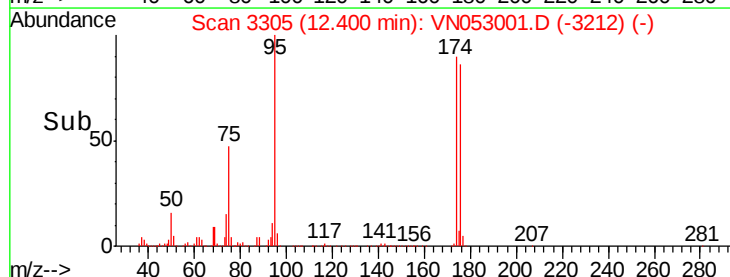
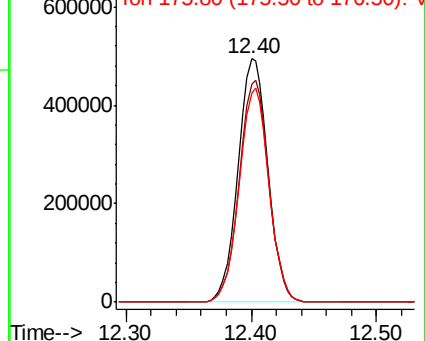
95 100

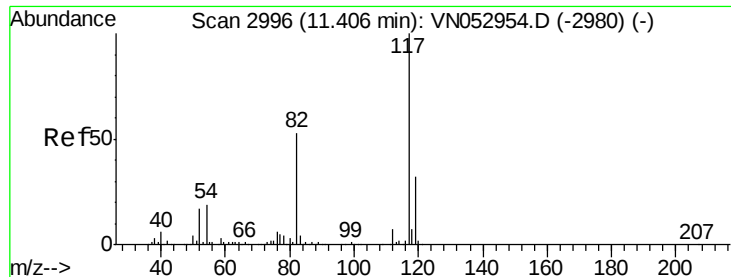
174 90.4 0.0 178.8

176 87.6 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VN053001.D (-3212) (-)

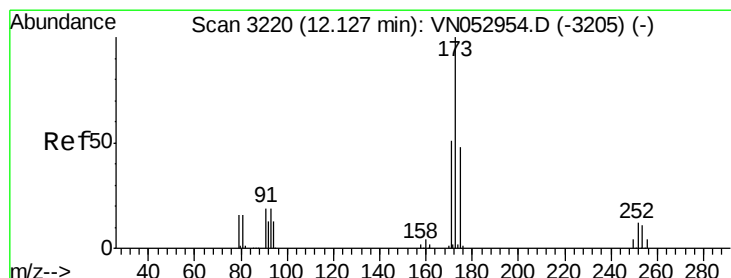
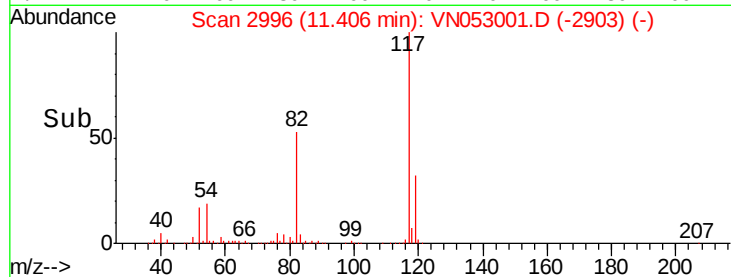
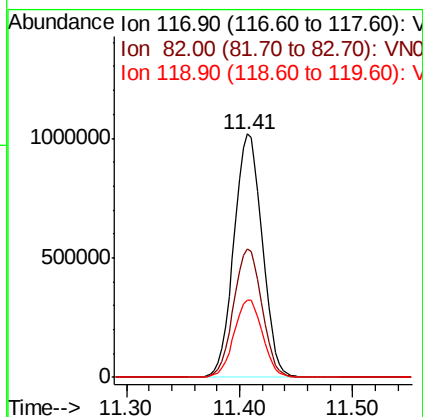
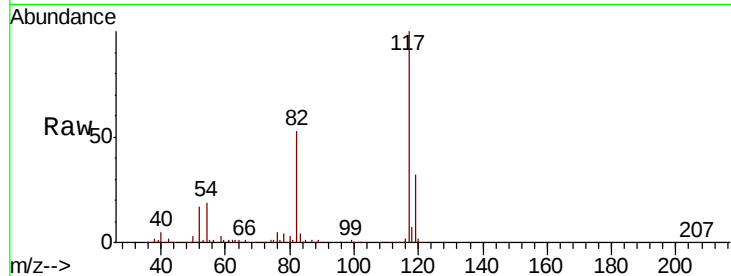




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053001.D
Acq: 19 Dec 2018 10:49

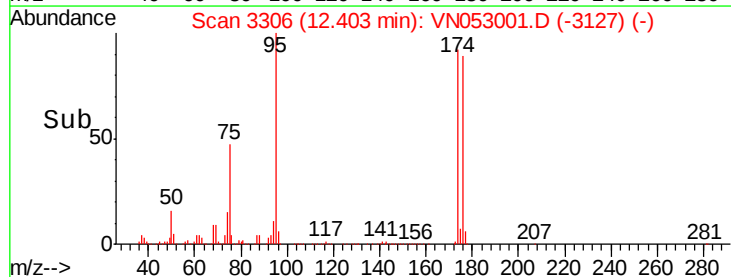
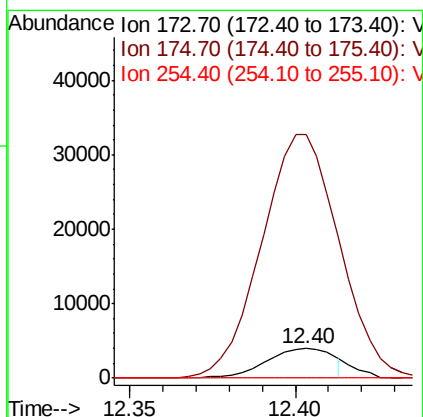
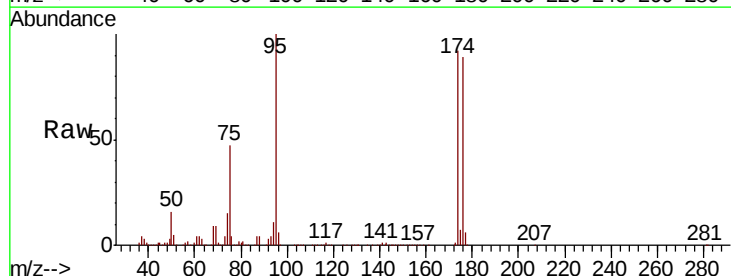
Instrument :
MSVOA_N
ClientSampleId :
OILY-WATER

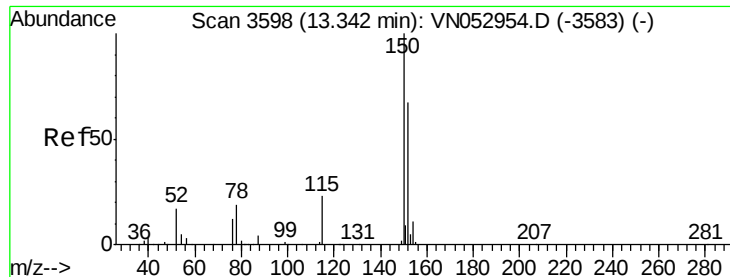
Tot Ion:117 Resp: 1776185
Ion Ratio Lower Upper
117 100
82 52.6 42.8 64.2
119 31.9 25.5 38.3



#71
Bromoform
Concen: 0.569 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053001.D
Acq: 19 Dec 2018 10:49

Tgt Ion:173 Resp: 5627
Ion Ratio Lower Upper
173 100
175 839.8 24.3 72.9#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053001.D

Acq: 19 Dec 2018 10:49

Instrument :

MSVOA_N

ClientSampleId :

OILY-WATER

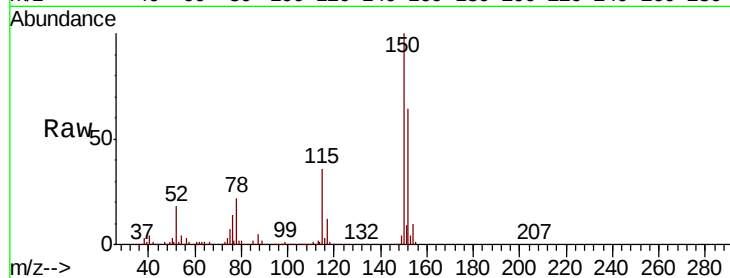
Tot Ion:152 Resp: 774230

Ion Ratio Lower Upper

152 100

115 55.6 28.3 85.0

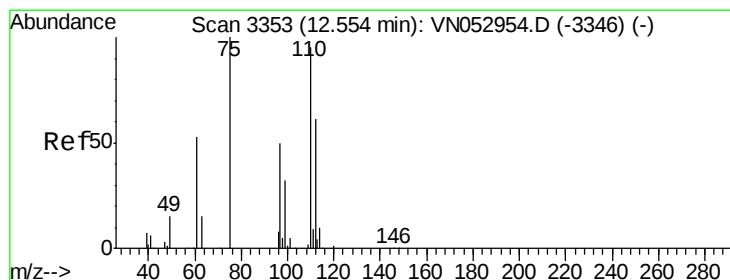
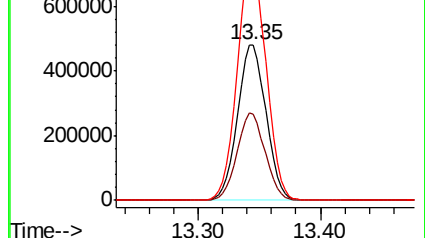
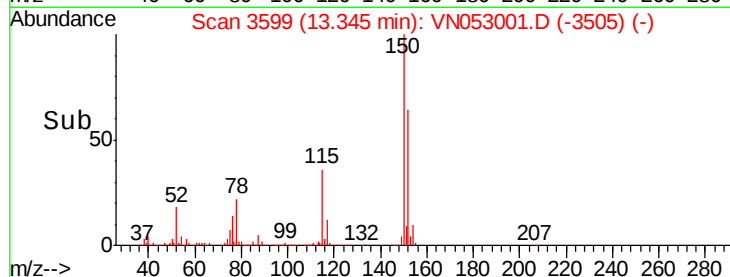
150 156.4 0.0 347.8



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 29.169 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053001.D

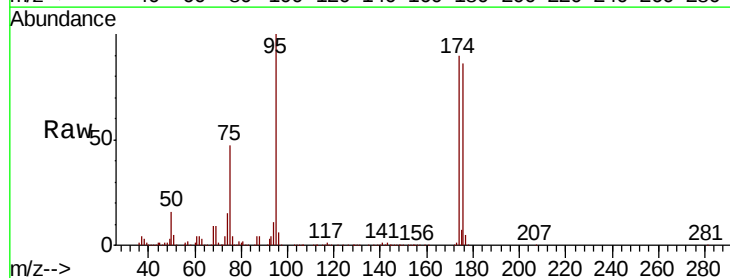
Acq: 19 Dec 2018 10:49

Tgt Ion: 75 Resp: 380176

Ion Ratio Lower Upper

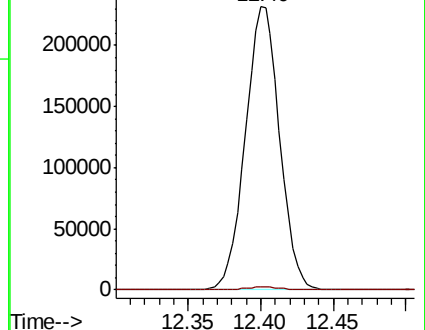
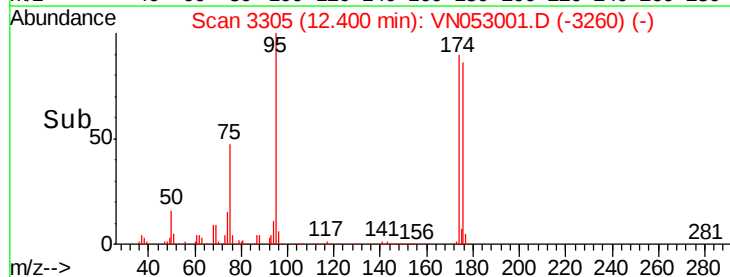
75 100

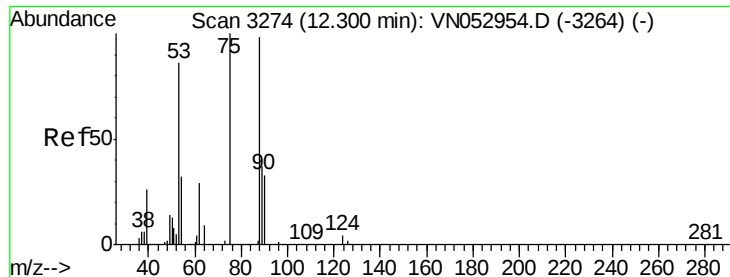
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 94.017 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053001.D

Acq: 19 Dec 2018 10:49

Instrument :

MSVOA_N

ClientSampleId :

OILY-WATER

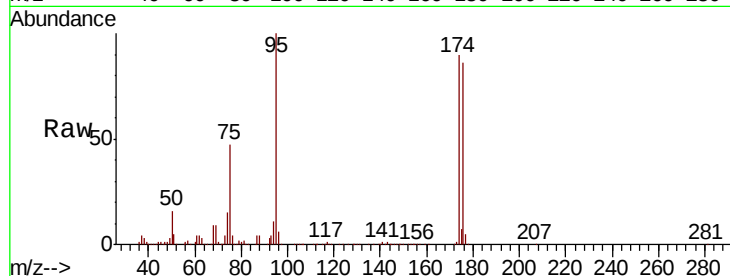
Tot Ion: 75 Resp: 380176

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

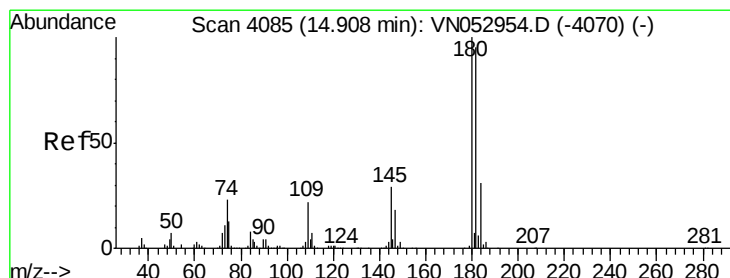
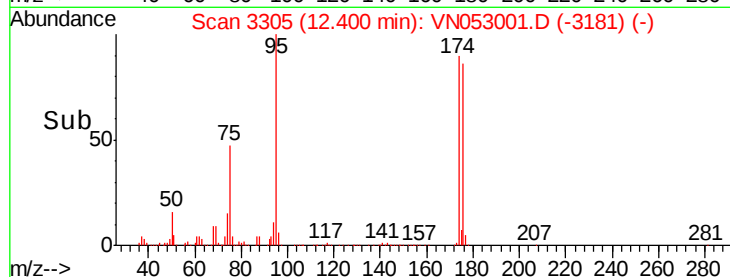
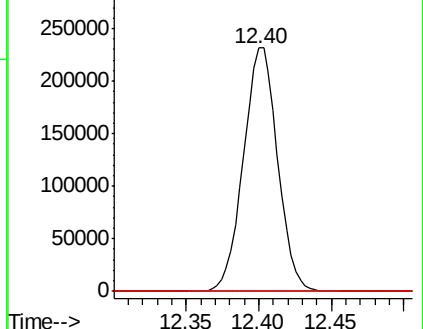
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN053001.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN053001.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN053001.D (-3181) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.628 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN053001.D

Acq: 19 Dec 2018 10:49

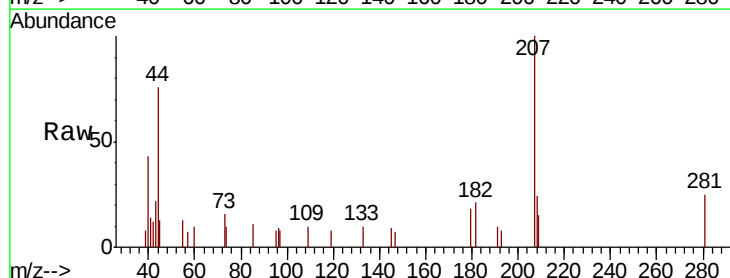
Tgt Ion: 180 Resp: 443

Ion Ratio Lower Upper

180 100

182 141.1 47.8 143.3

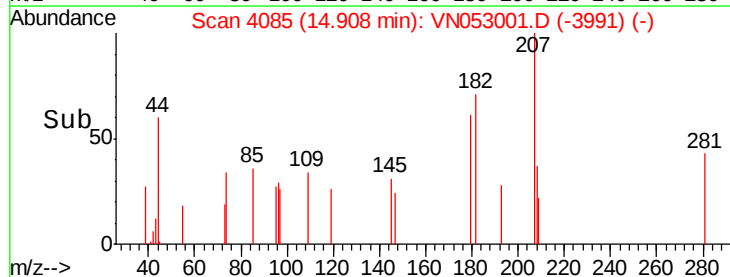
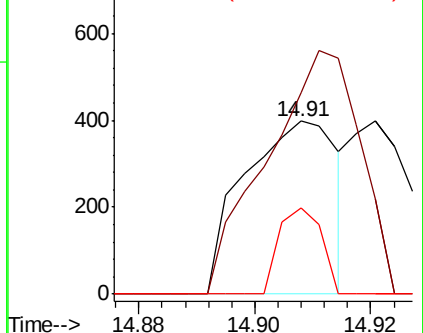
145 22.8 14.2 42.6

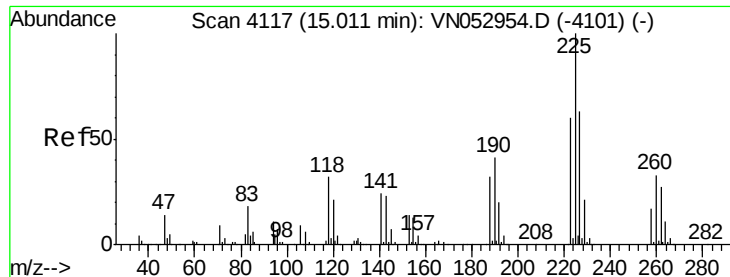


Abundance Ion 179.80 (179.50 to 180.50): VN053001.D (-3991) (-)

Ion 181.80 (181.50 to 182.50): VN053001.D (-3991) (-)

Ion 144.80 (144.50 to 145.50): VN053001.D (-3991) (-)





#94

Hexachlorobutadiene

Concen: Below Cal

RT: 15.01 min Scan# 4116

Delta R.T. -0.00 min

Lab File: VN053001.D

Acq: 19 Dec 2018 10:49

Instrument :

MSVOA_N

ClientSampleId :

OILY-WATER

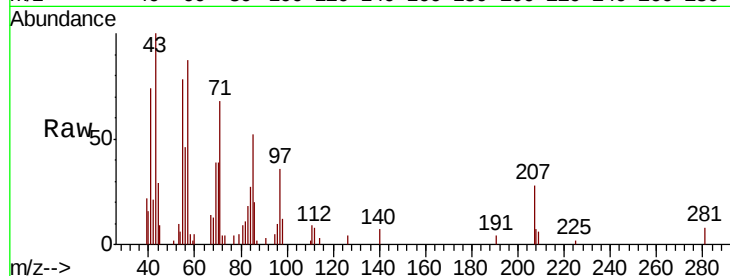
Tot Ion:225 Resp: 30

Ion Ratio Lower Upper

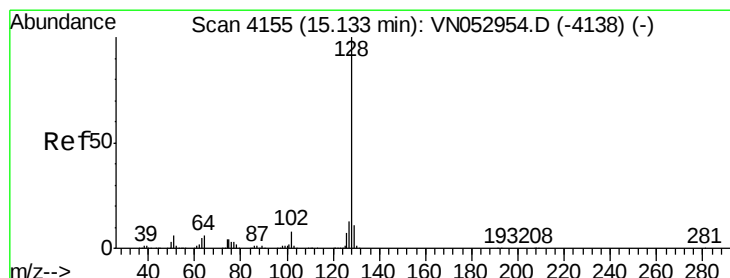
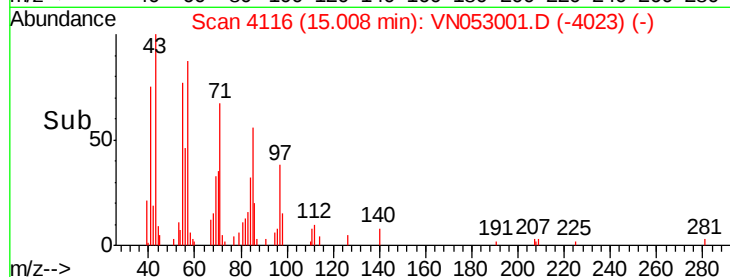
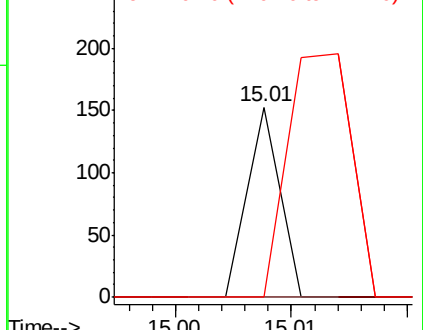
225 100

223 0.0 31.5 94.5#

227 250.0 31.9 95.7#



Abundance Ion 224.70 (224.40 to 225.40): V
Ion 222.70 (222.40 to 223.40): V
Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 1.260 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN053001.D

Acq: 19 Dec 2018 10:49

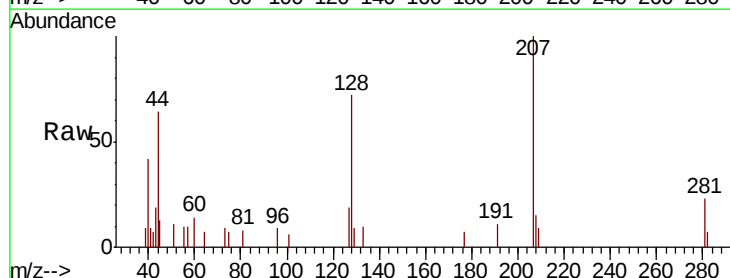
Tgt Ion:128 Resp: 3547

Ion Ratio Lower Upper

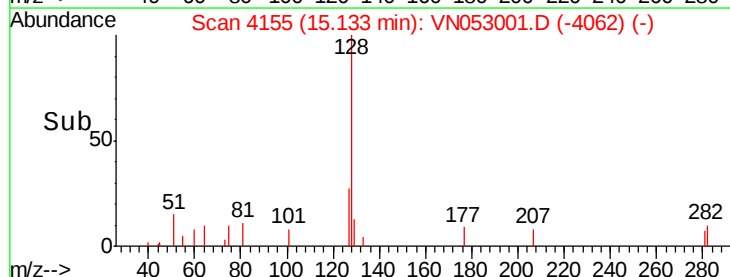
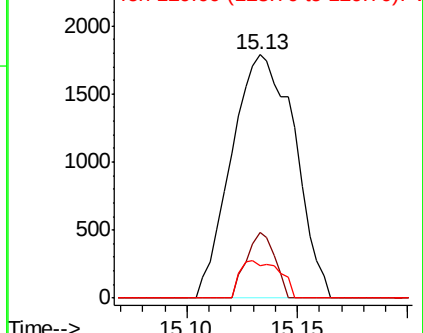
128 100

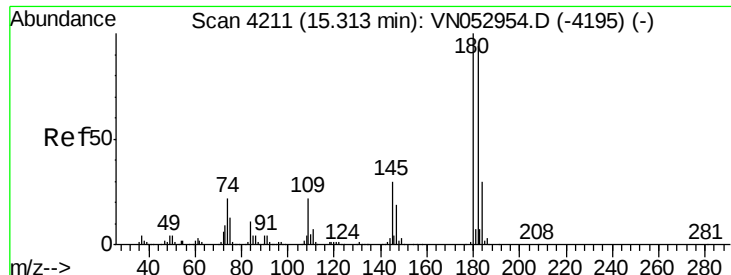
127 12.3 10.2 15.4

129 9.7 8.6 13.0



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: 0.549 ug/l
 RT: 15.30 min Scan# 4208
 Delta R.T. -0.01 min
 Lab File: VN053001.D
 Acq: 19 Dec 2018 10:49

Instrument :
 MSVOA_N
 ClientSampleId :
 OILY-WATER

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.9	47.9	143.7
145	12.2	15.0	45.0

