

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071818\
 Data File : VN049879.D
 Acq On : 18 Jul 2018 18:03
 Operator : MD\SY
 Sample : PB111206ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 19 01:21:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 18 13:09:48 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	563697	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	944586	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	781018	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	279916	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	406912	52.52	ug/l	0.00
Spiked Amount			Recovery	=	105.04%	
35) Dibromofluoromethane	7.59	113	357707	45.11	ug/l	0.00
Spiked Amount			Recovery	=	90.22%	
50) Toluene-d8	10.09	98	1259747	43.60	ug/l	0.00
Spiked Amount			Recovery	=	87.20%	
62) 4-Bromofluorobenzene	12.40	95	337823	33.95	ug/l	0.00
Spiked Amount			Recovery	=	67.90%	

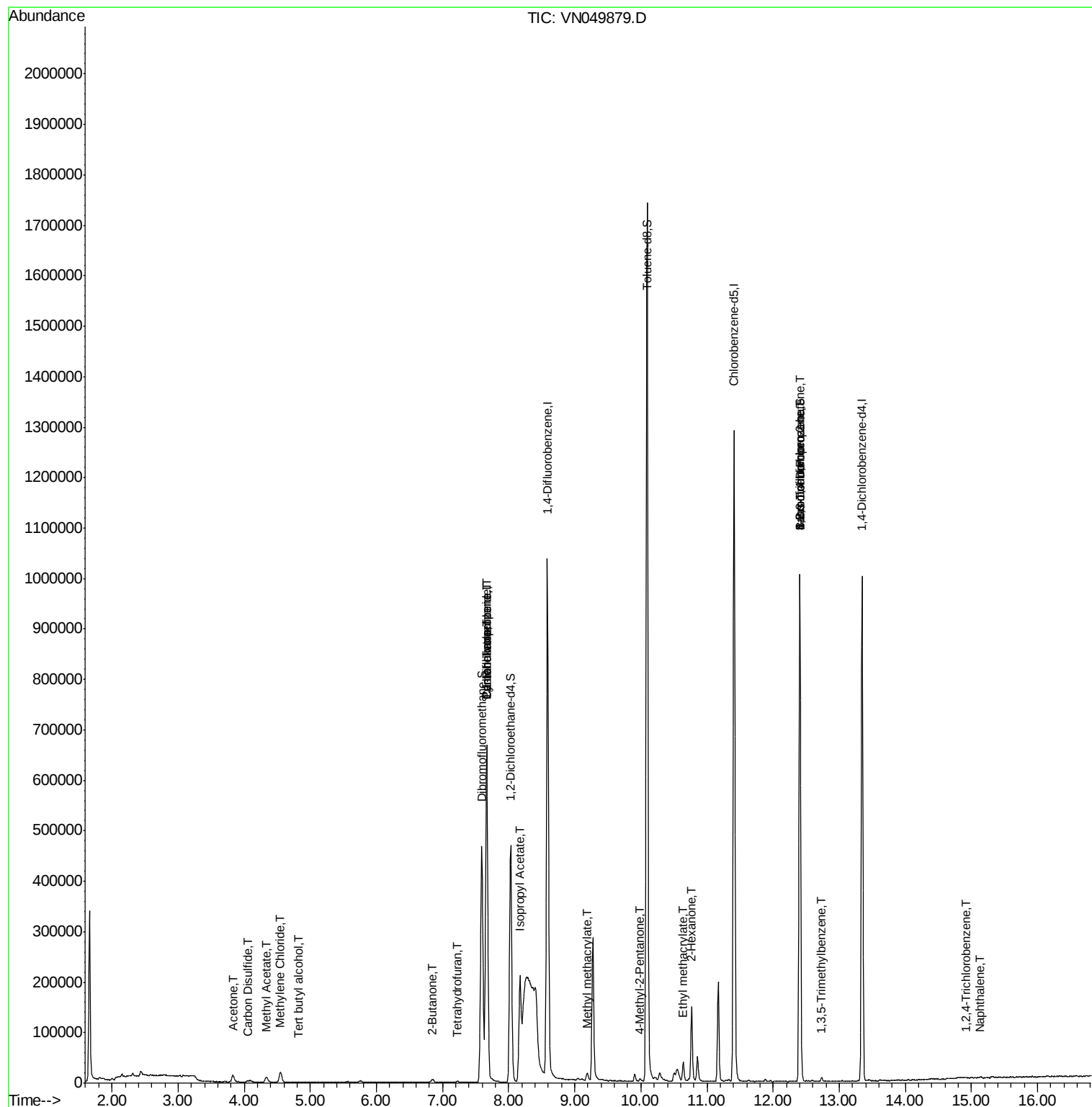
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	155	Below Cal	#	44
5) Bromomethane	2.57	94	911	Below Cal		96
11) Tert butyl alcohol	4.81	59	114	0.21	ug/l #	72
16) Acetone	3.83	43	23370	11.65	ug/l	98
17) Carbon Disulfide	4.04	76	3790	0.21	ug/l #	95
18) Methyl Acetate	4.33	43	18878	2.21	ug/l	95
20) Methylene Chloride	4.55	84	14666	1.92	ug/l	96
25) 2-Butanone	6.85	43	4856	1.69	ug/l	98
29) Tetrahydrofuran	7.21	42	841	0.47	ug/l #	44
31) Cyclohexane	7.67	56	11038	1.07	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	40318	3.84	ug/l #	45
38) Carbon Tetrachloride	7.67	117	51212	4.55	ug/l #	17
43) Isopropyl Acetate	8.17	43	261122	20.72	ug/l	98
48) Methyl methacrylate	9.18	41	9829	1.56	ug/l #	22
51) 4-Methyl-2-Pentanone	9.99	43	3459	0.49	ug/l	90
56) Ethyl methacrylate	10.63	69	757	2.23	ug/l #	1
59) 2-Hexanone	10.77	43	21102	4.46	ug/l #	59
71) Bromoform	12.41	173	3012	0.55	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	167461	31.89	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3451	0.20	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	167461	99.72	ug/l #	13
93) 1,2,4-Trichlorobenzene	14.91	180	586	3.57	ug/l	89
95) Naphthalene	15.13	128	2012	4.63	ug/l #	84

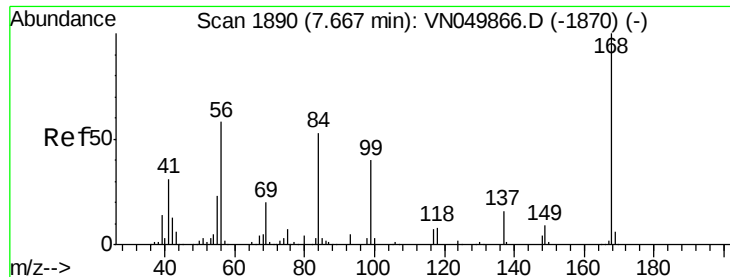
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071818\
Data File : VN049879.D
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Instrument :
MSVOA_N
ClientSampleId :

Quant Time: Jul 19 01:21:16 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071818W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 18 13:09:48 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VN049879.D

Acq: 18 Jul 2018 18:03

Instrument :

MSVOA_N

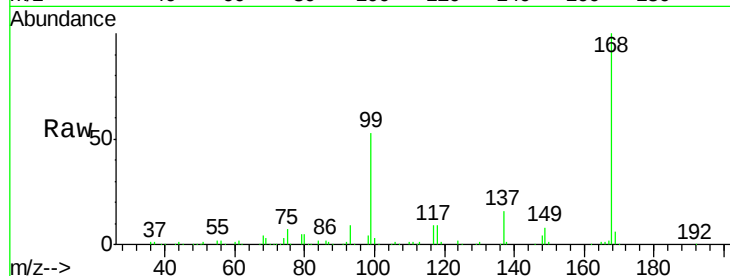
ClientSampled :

Tot Ion:168 Resp: 563697

Ion Ratio Lower Upper

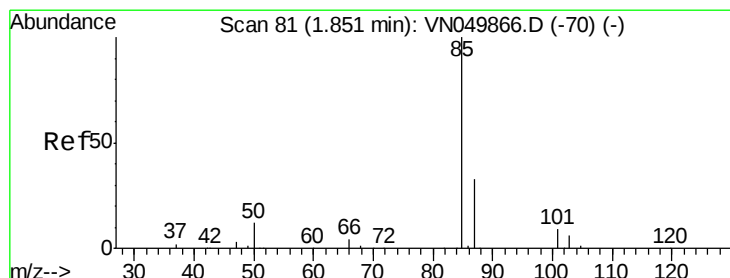
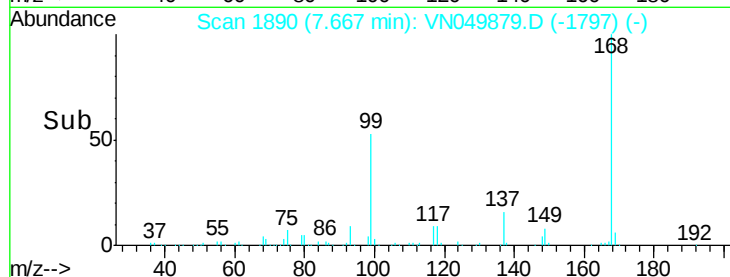
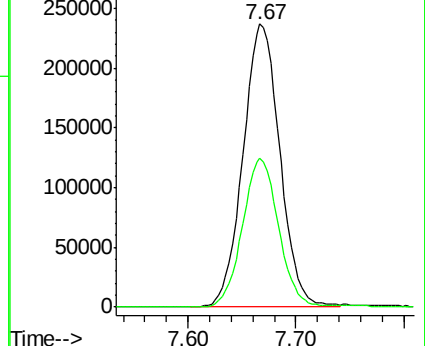
168 100

99 52.5 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN049879.D

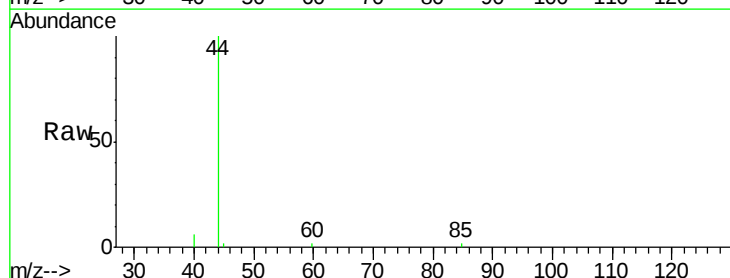
Acq: 18 Jul 2018 18:03

Tgt Ion: 85 Resp: 155

Ion Ratio Lower Upper

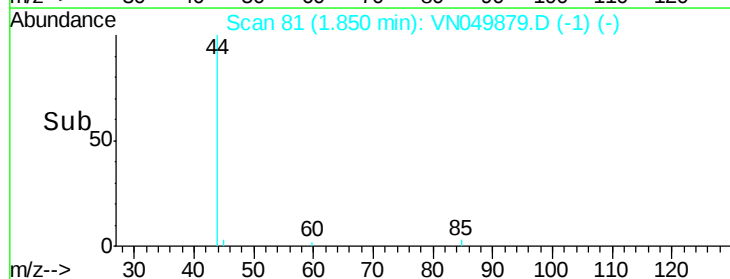
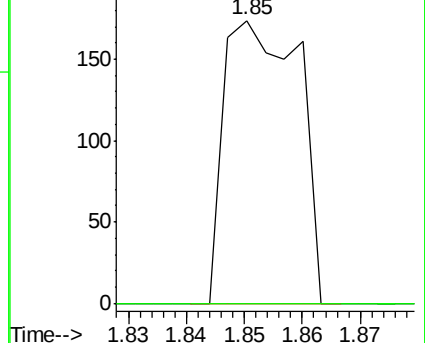
85 100

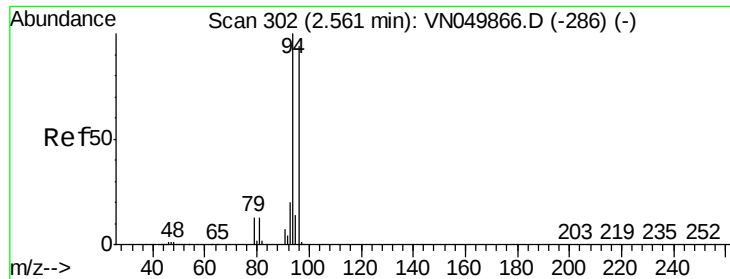
87 0.0 15.4 46.1#



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN049879.D

Acq: 18 Jul 2018 18:03

Instrument :

MSVOA_N

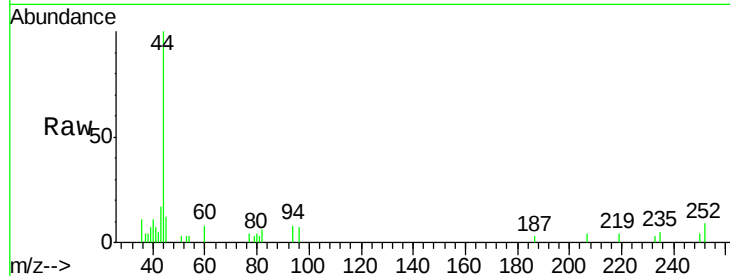
ClientSampled :

Tot Ion: 94 Resp: 911

Ion Ratio Lower Upper

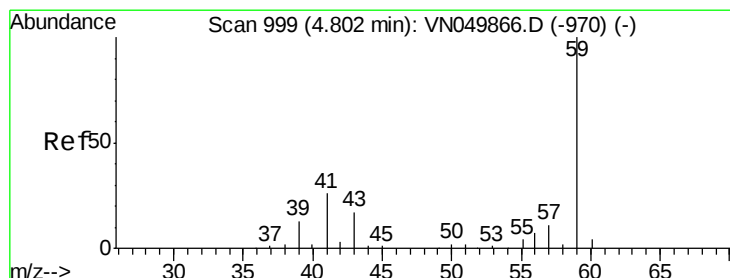
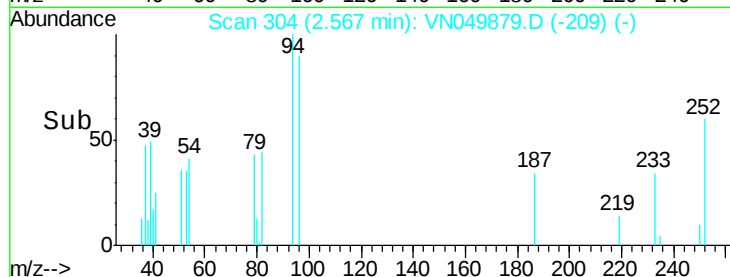
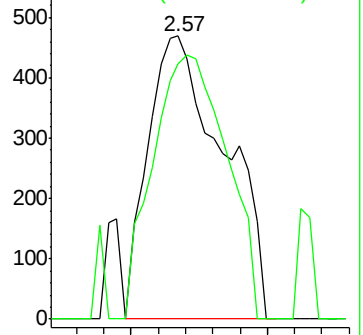
94 100

96 90.4 75.7 113.5



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#11

Tert butyl alcohol

Concen: 0.21 ug/l

RT: 4.81 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VN049879.D

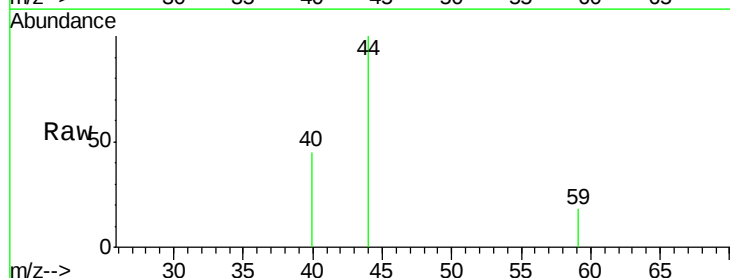
Acq: 18 Jul 2018 18:03

Tgt Ion: 59 Resp: 114

Ion Ratio Lower Upper

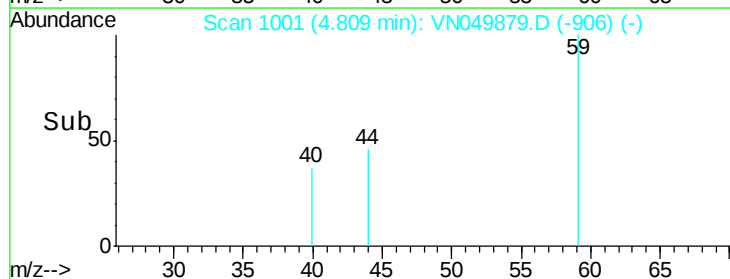
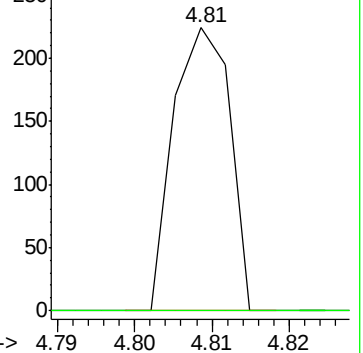
59 100

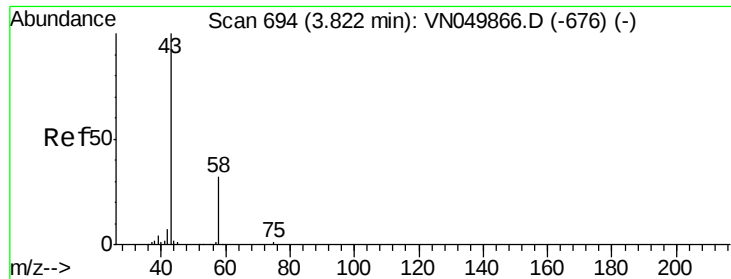
57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#16

Acetone

Concen: 11.65 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049879.D

Acq: 18 Jul 2018 18:03

Instrument :

MSVOA_N

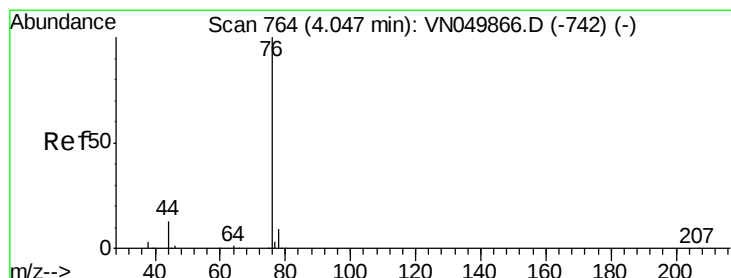
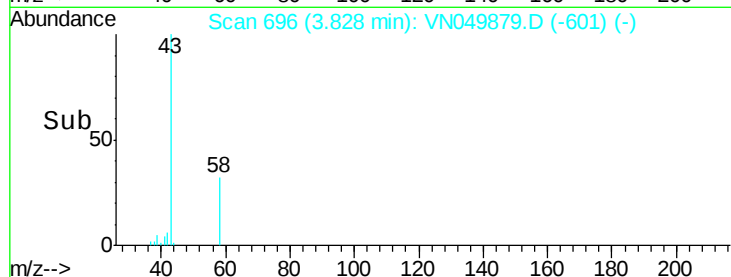
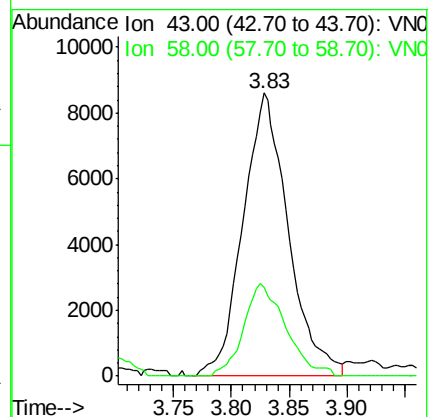
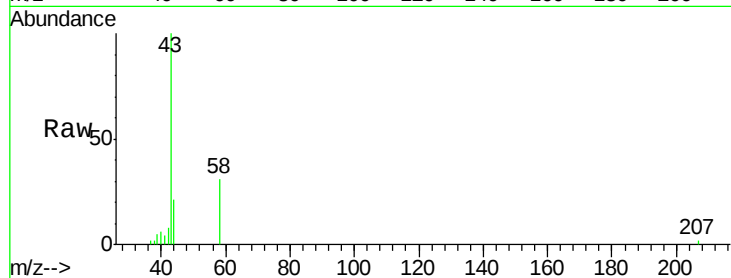
ClientSampleId :

Tot Ion: 43 Resp: 23370

Ion Ratio Lower Upper

43 100

58 31.3 25.9 38.9



#17

Carbon Disulfide

Concen: 0.21 ug/l

RT: 4.04 min Scan# 763

Delta R.T. -0.00 min

Lab File: VN049879.D

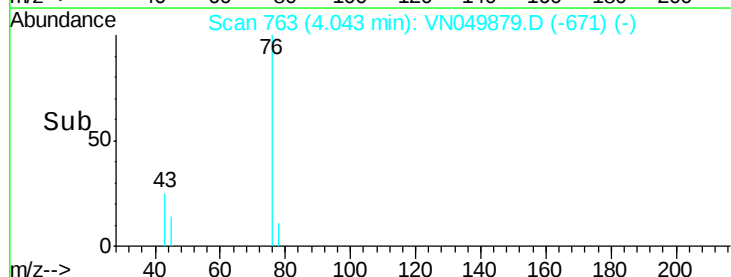
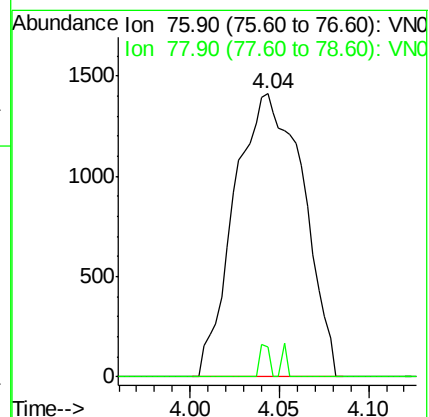
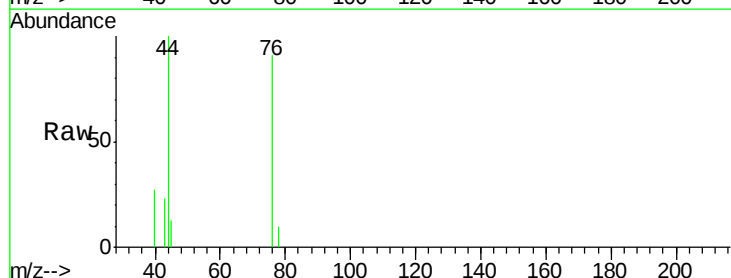
Acq: 18 Jul 2018 18:03

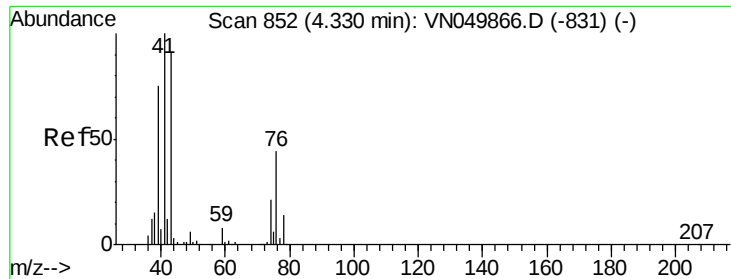
Tgt Ion: 76 Resp: 3790

Ion Ratio Lower Upper

76 100

78 10.7 7.1 10.7#

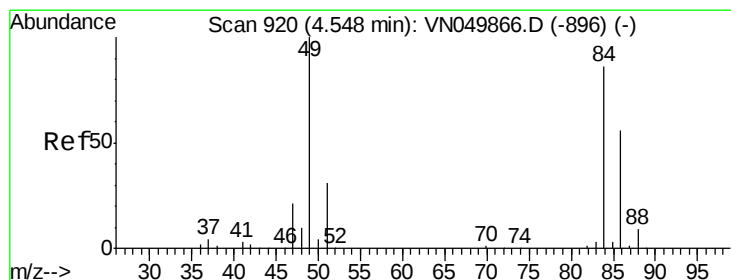
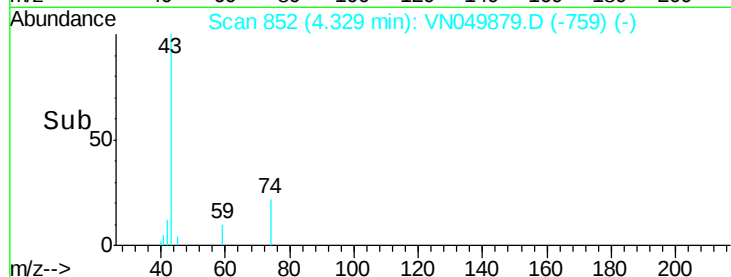
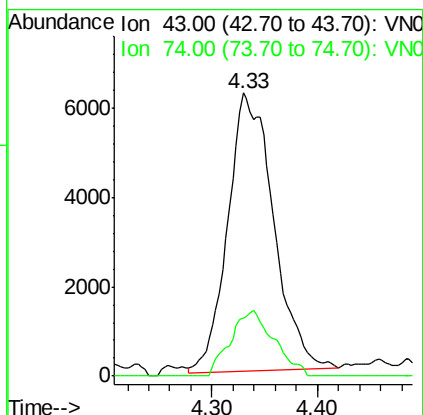
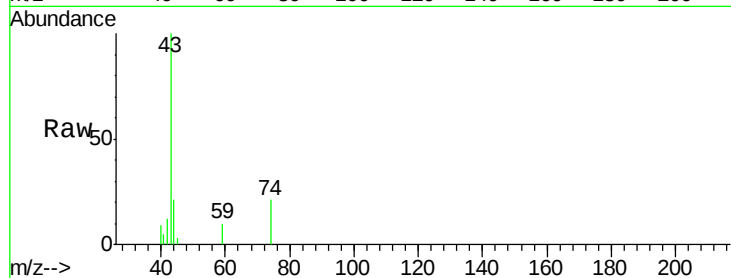




#18
Methvl Acetate
Concen: 2.21 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN049879.D
Acq: 18 Jul 2018 18:03

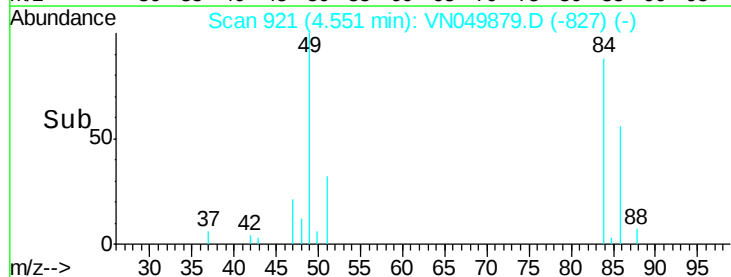
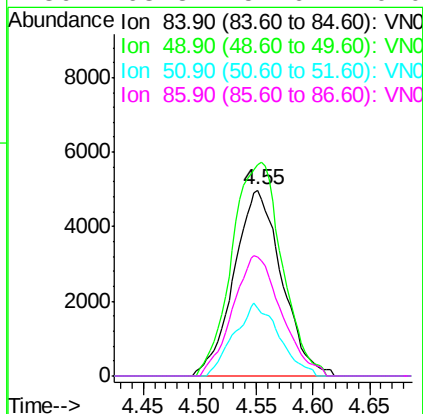
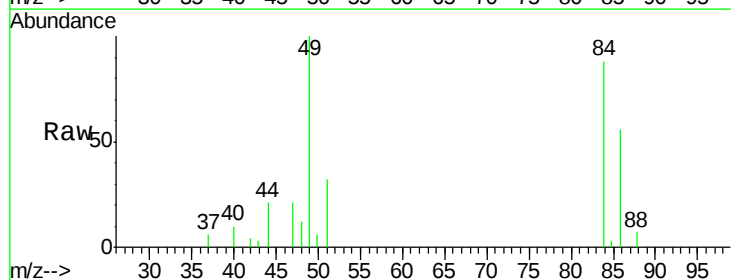
Instrument :
MSVOA_N
ClientSampleId :

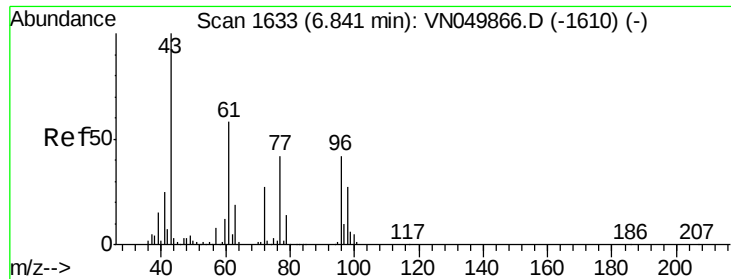
Tot Ion: 43 Resp: 18878
Ion Ratio Lower Upper
43 100
74 22.3 19.8 29.8



#20
Methylene Chloride
Concen: 1.92 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN049879.D
Acq: 18 Jul 2018 18:03

Tgt Ion: 84 Resp: 14666
Ion Ratio Lower Upper
84 100
49 113.6 95.4 143.2
51 36.3 28.4 42.6
86 63.8 52.6 79.0

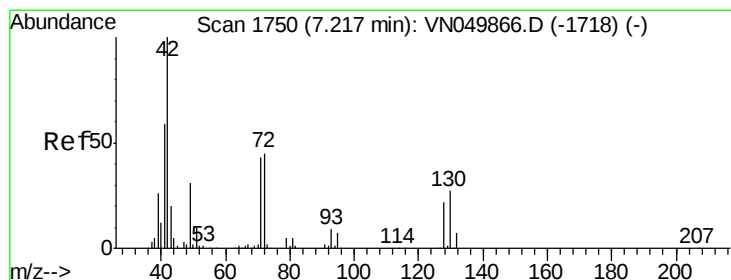
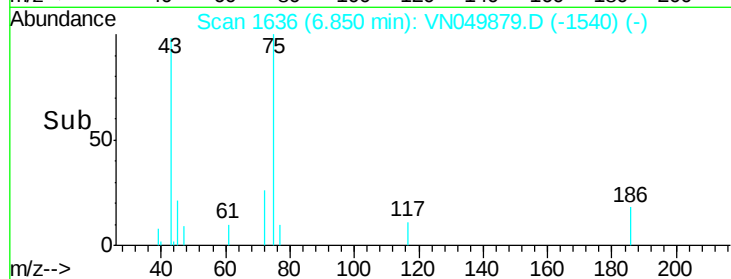
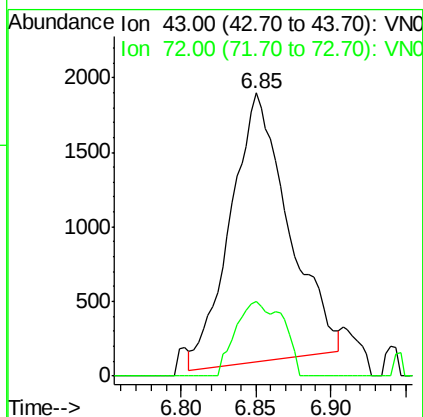
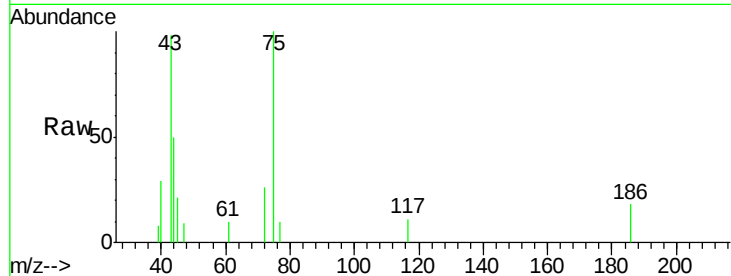




#25
2-Butanone
Concen: 1.69 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN049879.D
Acq: 18 Jul 2018 18:03

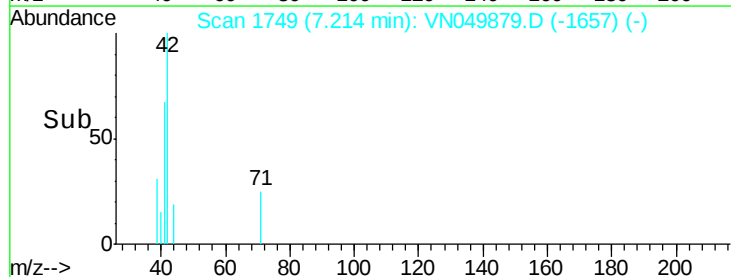
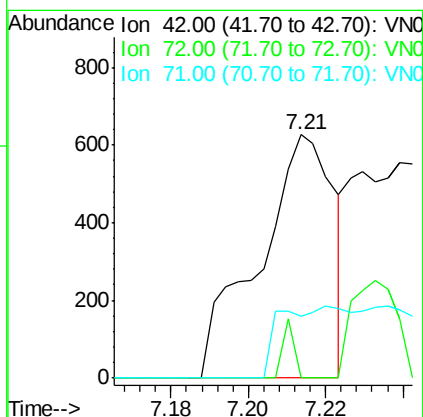
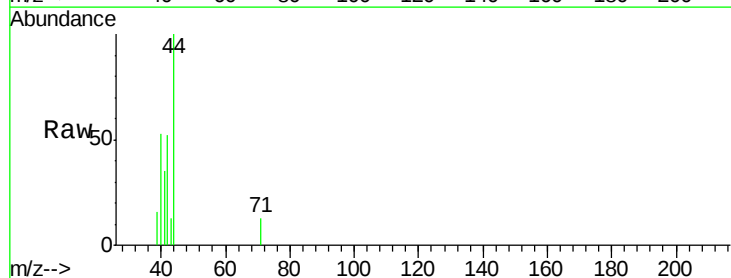
Instrument :
MSVOA_N
ClientSampleId :

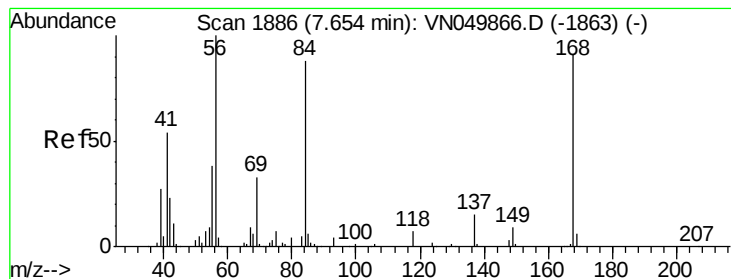
Tot Ion: 43 Resp: 4856
Ion Ratio Lower Upper
43 100
72 28.8 22.1 33.1



#29
Tetrahydrofuran
Concen: 0.47 ug/l
RT: 7.21 min Scan# 1749
Delta R.T. -0.00 min
Lab File: VN049879.D
Acq: 18 Jul 2018 18:03

Tgt Ion: 42 Resp: 841
Ion Ratio Lower Upper
42 100
72 3.4 35.6 53.4#
71 11.5 34.0 51.0#





#31

Cyclohexane

Concen: 1.07 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN049879.D

Acq: 18 Jul 2018 18:03

Instrument :

MSVOA_N

ClientSampled :

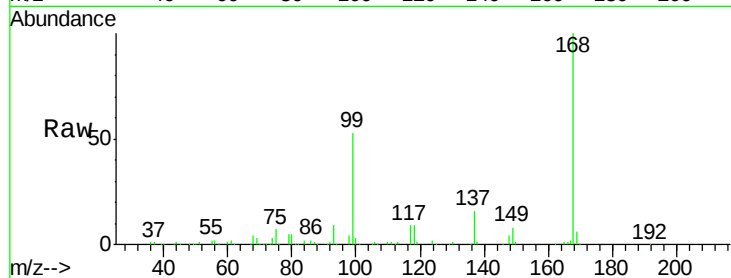
Tot Ion: 56 Resp: 11038

Ion Ratio Lower Upper

56 100

69 189.2 26.6 40.0#

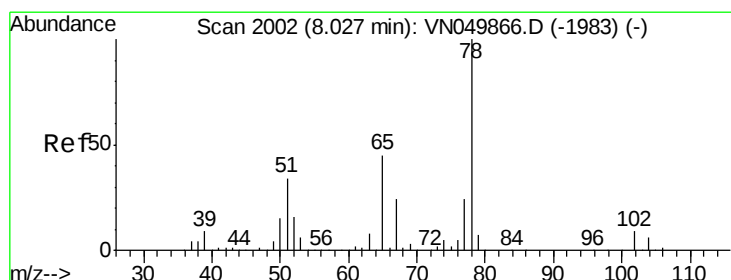
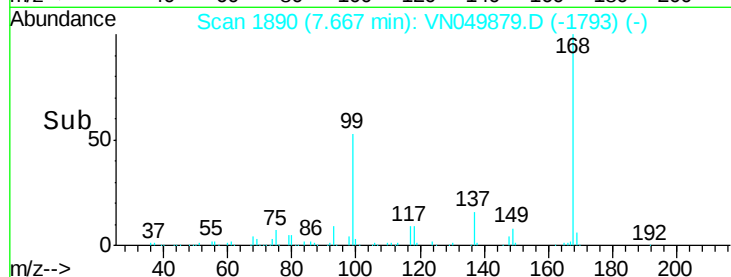
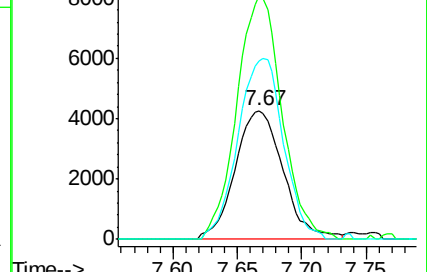
84 138.7 69.0 103.6#



Abundance Ion 56.00 (55.70 to 56.70): VN049866.D (-1863) (-)

Ion 69.00 (68.70 to 69.70): VN049866.D (-1863) (-)

Ion 84.00 (83.70 to 84.70): VN049866.D (-1863) (-)



#33

1,2-Dichloroethane-d4

Concen: 52.52 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049879.D

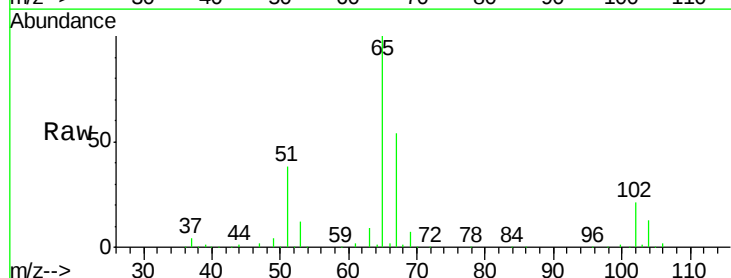
Acq: 18 Jul 2018 18:03

Tgt Ion: 65 Resp: 406912

Ion Ratio Lower Upper

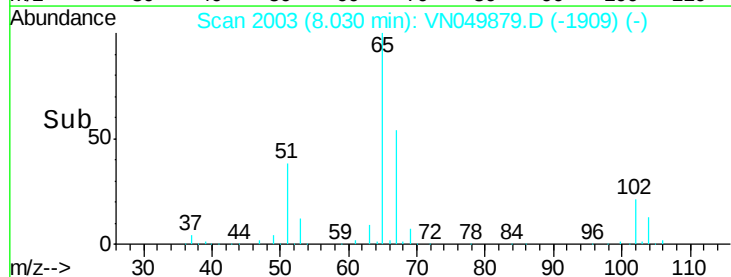
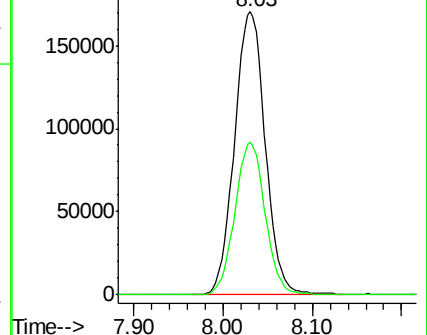
65 100

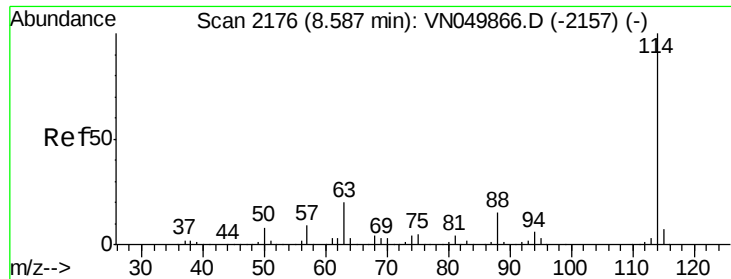
67 53.2 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VN049866.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN049866.D (-1983) (-)





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN049879.D

Acq: 18 Jul 2018 18:03

Instrument :
MSVOA_N
ClientSampleId :

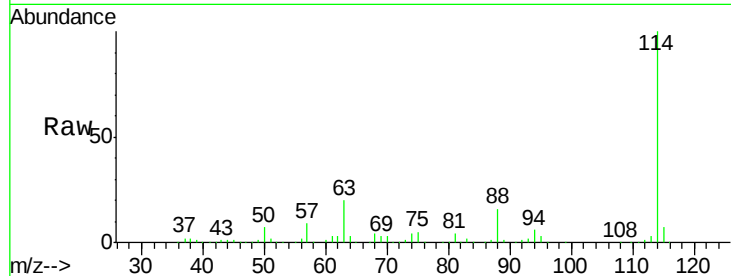
Tot Ion:114 Resp: 944586

Ion Ratio Lower Upper

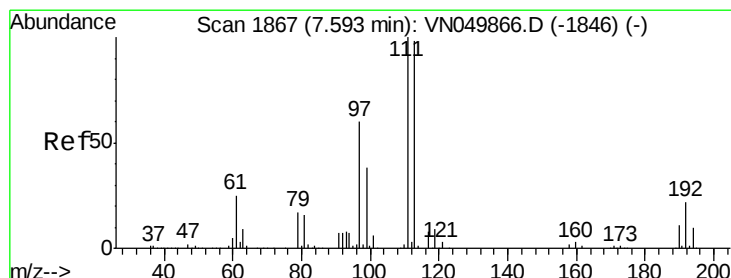
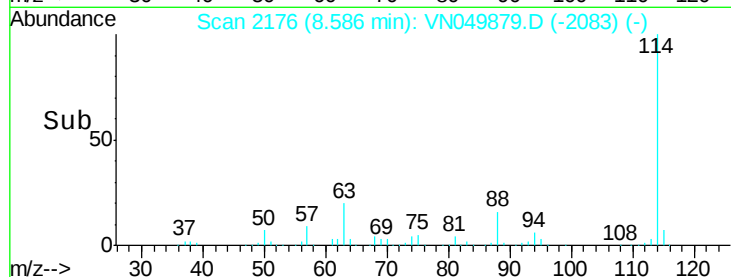
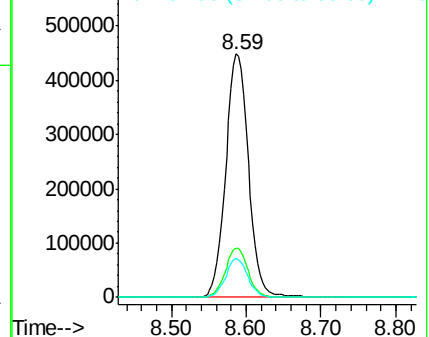
114 100

63 20.3 0.0 39.8

88 15.8 0.0 30.6



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



#35

Dibromofluoromethane

Concen: 45.11 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VN049879.D

Acq: 18 Jul 2018 18:03

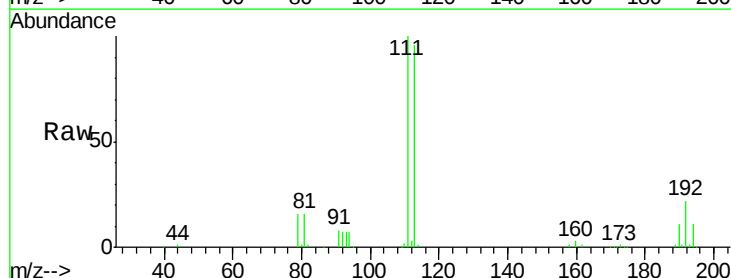
Tgt Ion:113 Resp: 357707

Ion Ratio Lower Upper

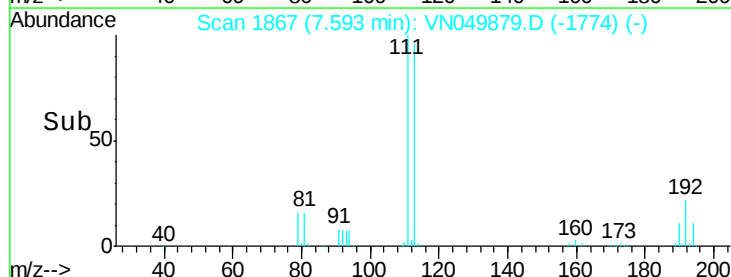
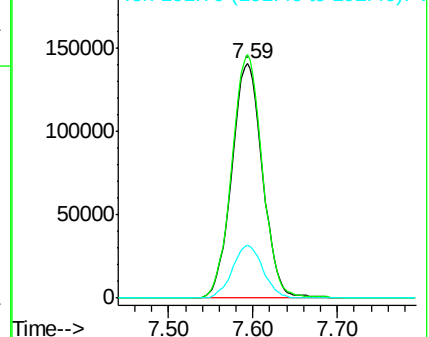
113 100

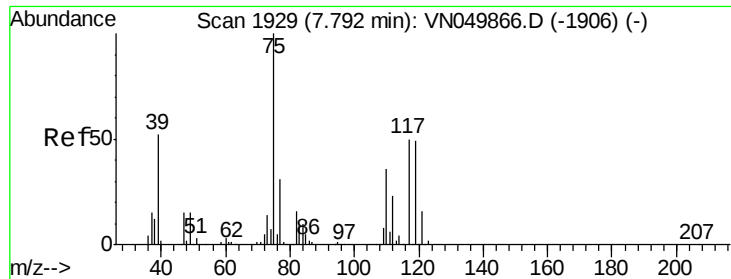
111 103.1 81.8 122.8

192 22.4 17.8 26.6



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: 3.84 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049879.D

Acq: 18 Jul 2018 18:03

Instrument :
MSVOA_N
ClientSampled :

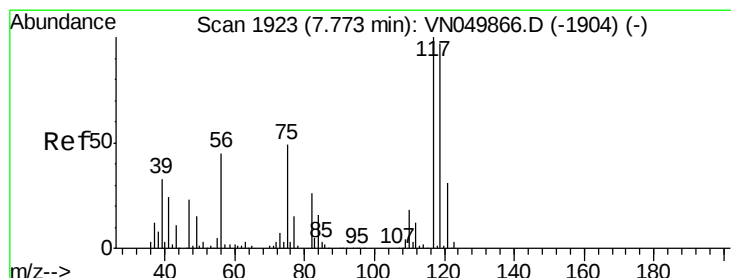
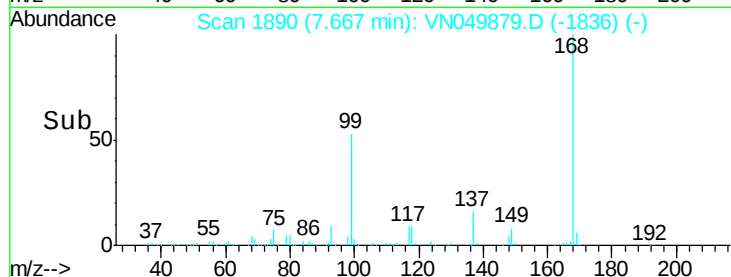
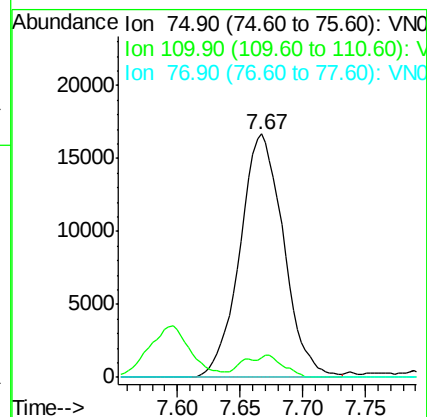
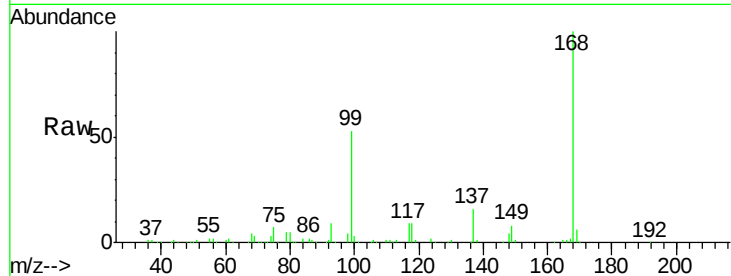
Tot Ion: 75 Resp: 40318

Ion Ratio Lower Upper

75 100

110 4.7 18.1 54.4#

77 0.0 24.9 37.3#



#38

Carbon Tetrachloride

Concen: 4.55 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049879.D

Acq: 18 Jul 2018 18:03

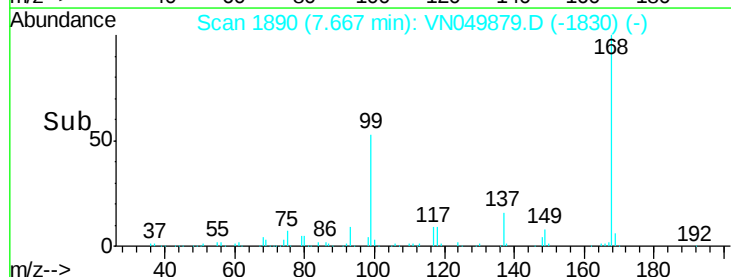
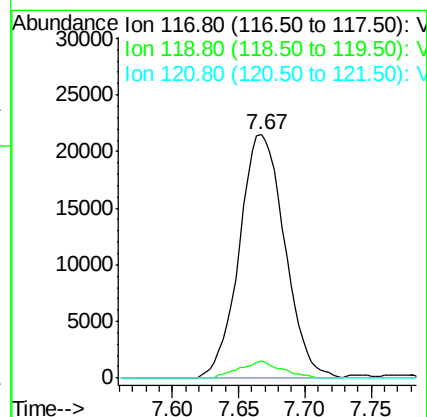
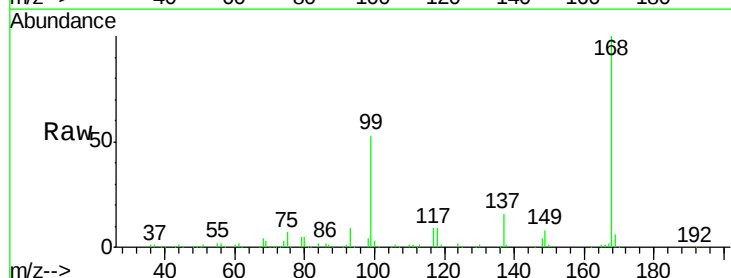
Tgt Ion: 117 Resp: 51212

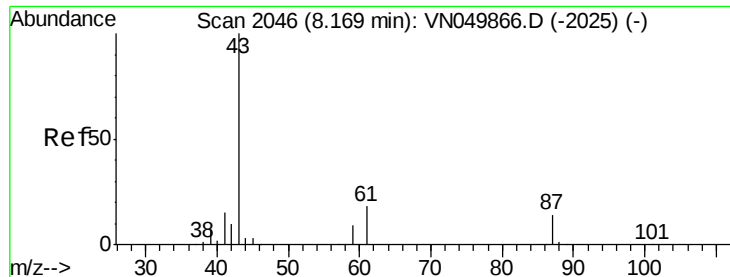
Ion Ratio Lower Upper

117 100

119 6.7 77.2 115.8#

121 0.0 25.0 37.6#



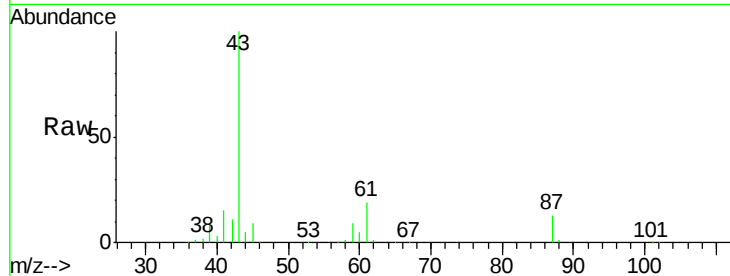


#43

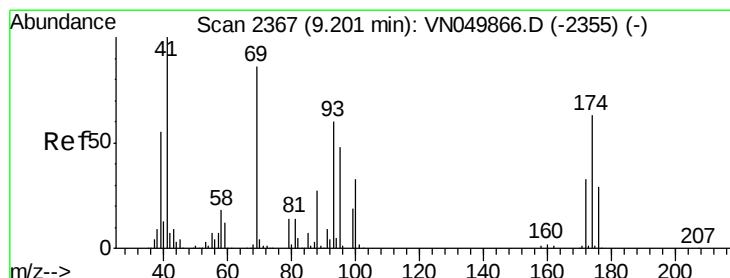
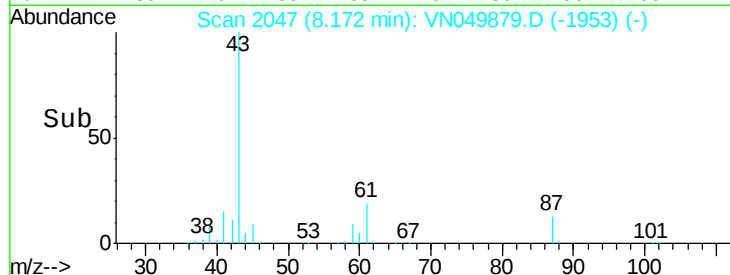
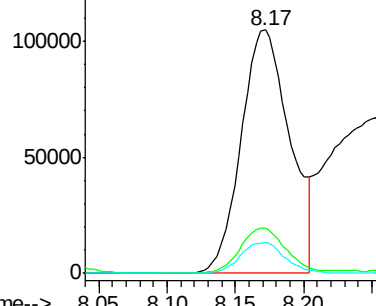
Isopropyl Acetate
 Concen: 20.72 ug/l
 RT: 8.17 min Scan# 2047
 Delta R.T. 0.00 min
 Lab File: VN049879.D
 Acq: 18 Jul 2018 18:03

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	43	Resp	261122
Ion Ratio	Lower	Upper	
43	100		
61	17.6	14.9	22.3
87	11.8	10.0	15.0



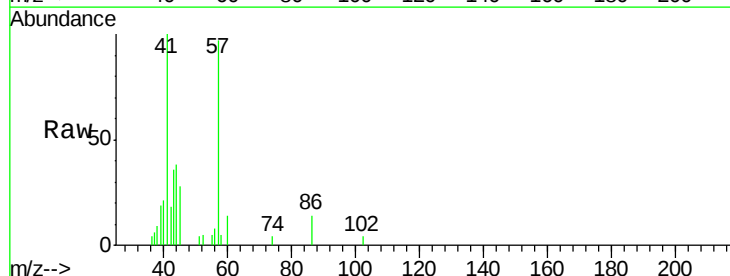
Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 61.00 (60.70 to 61.70): VN0
 Ion 87.00 (86.70 to 87.70): VN0



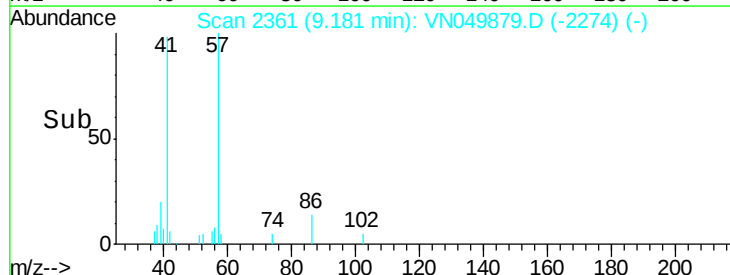
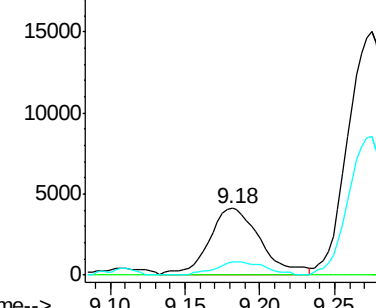
#48

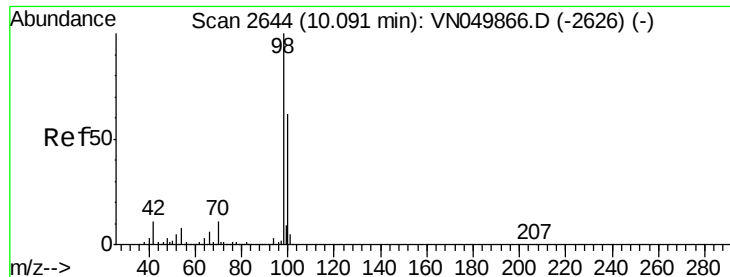
Methyl methacrylate
 Concen: 1.56 ug/l
 RT: 9.18 min Scan# 2361
 Delta R.T. -0.02 min
 Lab File: VN049879.D
 Acq: 18 Jul 2018 18:03

Tgt Ion	41	Resp	9829
Ion Ratio	Lower	Upper	
41	100		
69	0.0	71.5	107.3#
39	19.5	44.7	67.1#



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

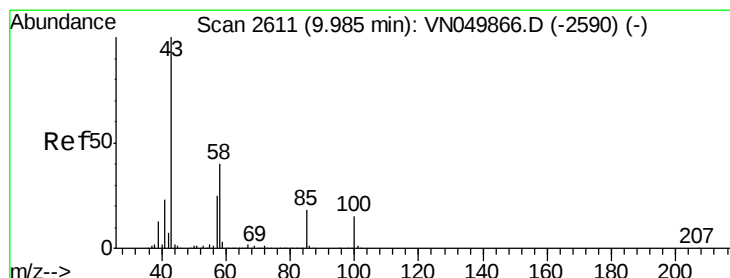
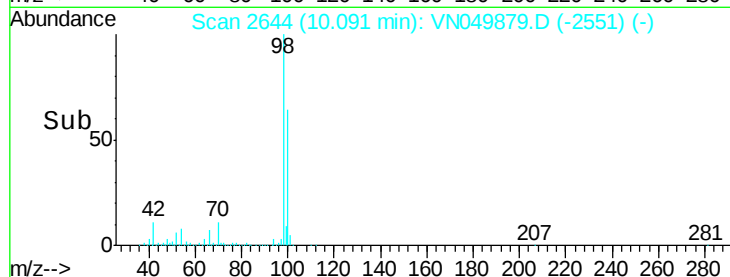
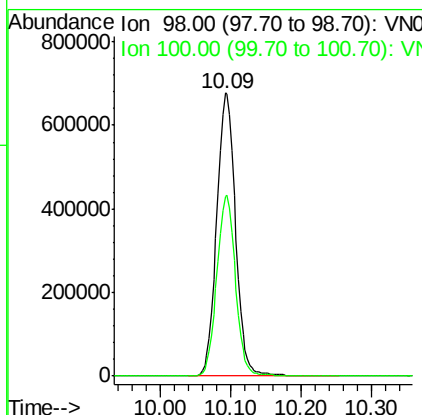
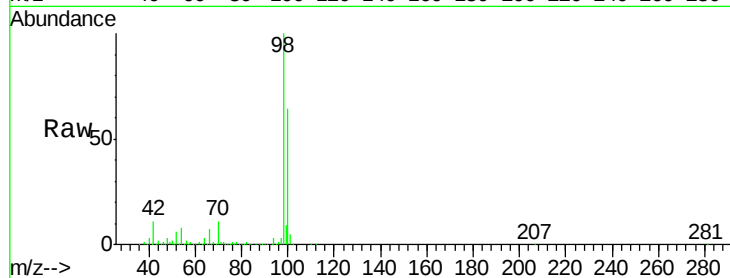




#50
Toluene-d8
Concen: 43.60 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN049879.D
Acq: 18 Jul 2018 18:03

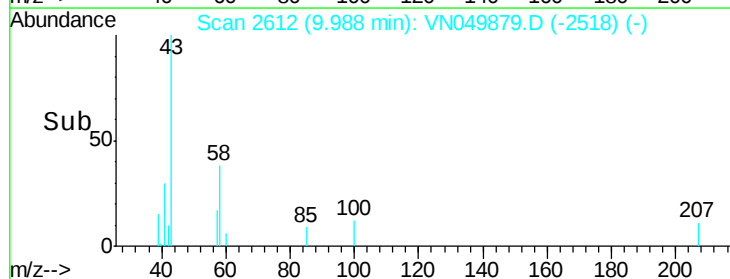
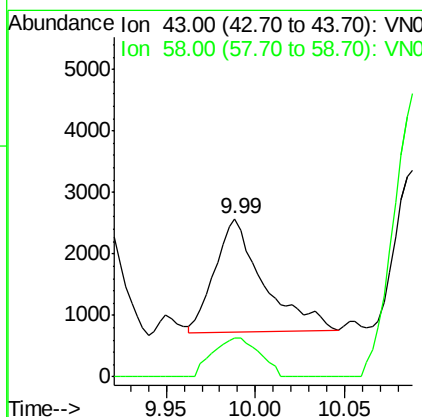
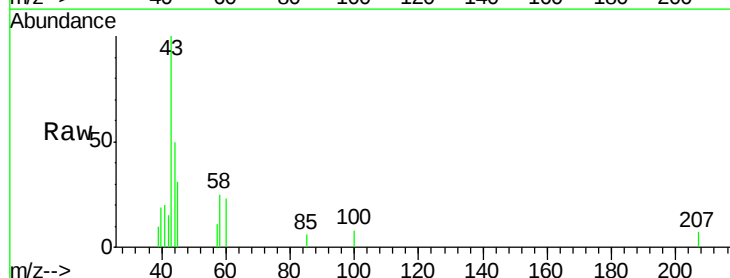
Instrument :
MSVOA_N
ClientSampleId :

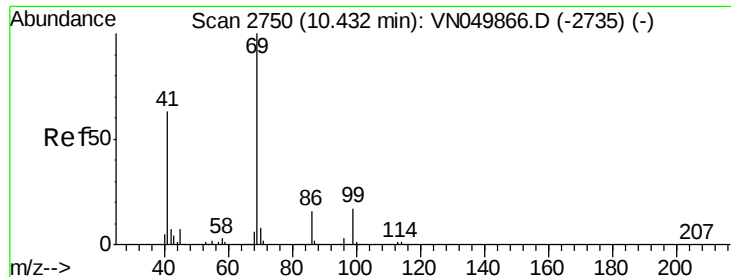
Tot Ion: 98 Resp: 1259747
Ion Ratio Lower Upper
98 100
100 63.2 51.7 77.5



#51
4-Methyl-2-Pentanone
Concen: 0.49 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN049879.D
Acq: 18 Jul 2018 18:03

Tgt Ion: 43 Resp: 3459
Ion Ratio Lower Upper
43 100
58 33.4 31.8 47.8





#56

Ethyl methacrylate

Concen: 2.23 ug/l

RT: 10.63 min Scan# 2813

Delta R.T. 0.20 min

Lab File: VN049879.D

Acq: 18 Jul 2018 18:03

Instrument :

MSVOA_N

ClientSampled :

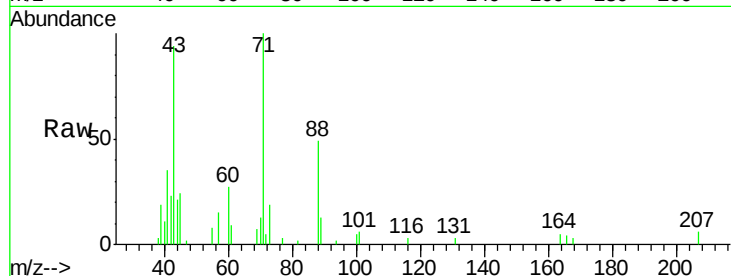
Tot Ion: 69 Resp: 757

Ion Ratio Lower Upper

69 100

41 764.5 51.6 77.4#

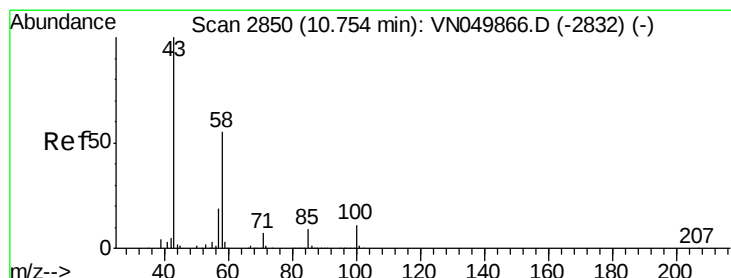
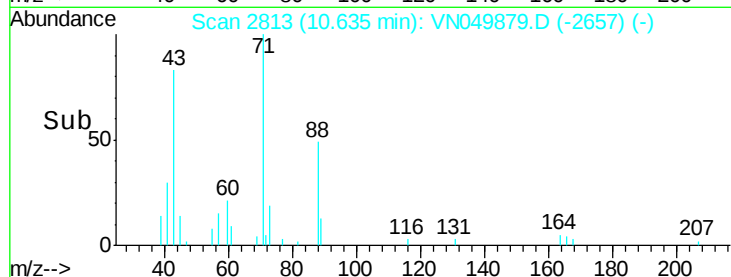
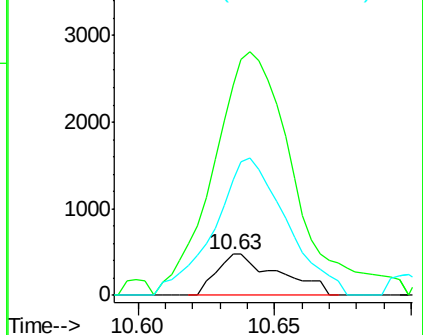
39 387.3 25.8 38.8#



Abundance Ion 69.00 (68.70 to 69.70): VN049866.D (-2735) (-)

Ion 41.00 (40.70 to 41.70): VN049866.D (-2735) (-)

Ion 39.00 (38.70 to 39.70): VN049866.D (-2735) (-)



#59

2-Hexanone

Concen: 4.46 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN049879.D

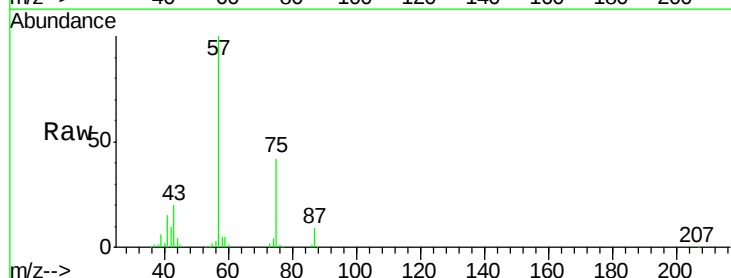
Acq: 18 Jul 2018 18:03

Tgt Ion: 43 Resp: 21102

Ion Ratio Lower Upper

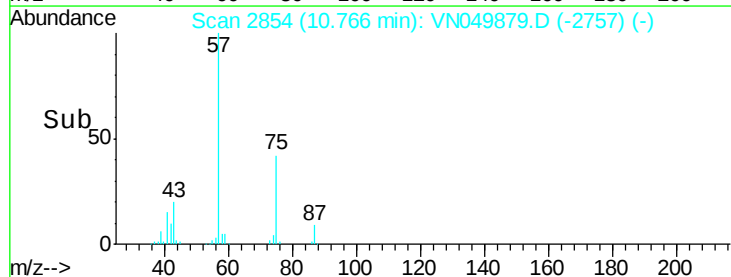
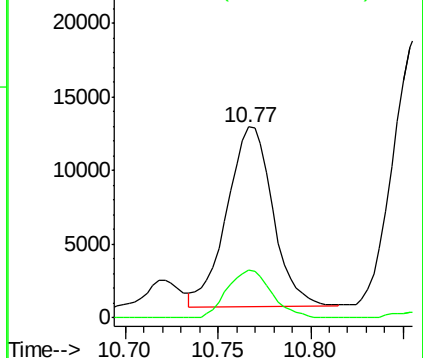
43 100

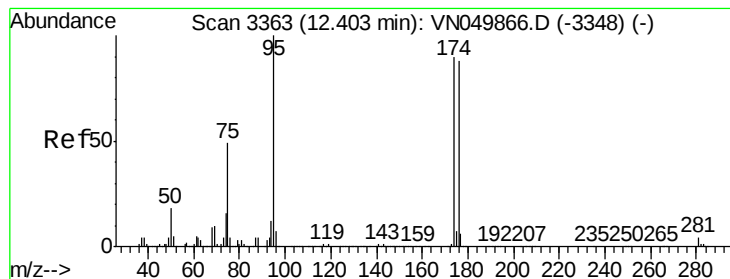
58 25.4 27.8 83.4#



Abundance Ion 43.00 (42.70 to 43.70): VN049866.D (-2832) (-)

Ion 58.00 (57.70 to 58.70): VN049866.D (-2832) (-)





#62

4-Bromofluorobenzene

Concen: 33.95 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.00 min

Lab File: VN049879.D

Acq: 18 Jul 2018 18:03

Instrument :

MSVOA_N

ClientSampleId :

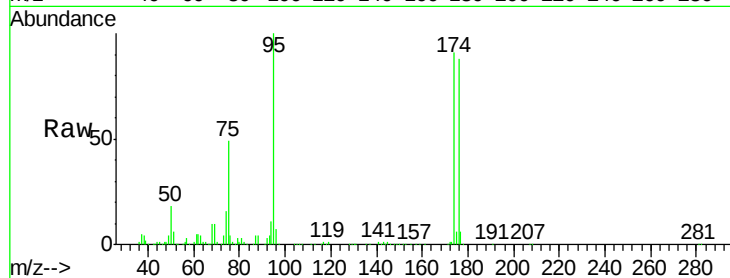
Tot Ion: 95 Resp: 337823

Ion Ratio Lower Upper

95 100

174 92.3 0.0 179.6

176 87.7 0.0 174.0

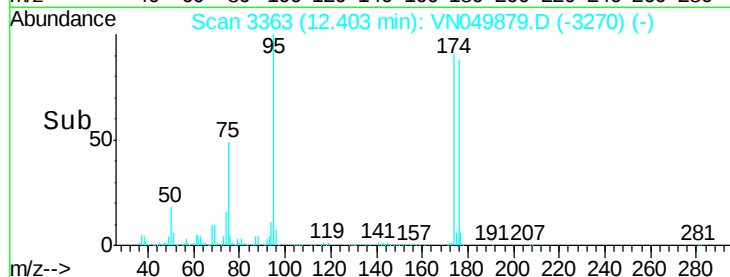


Abundance Ion 94.90 (94.60 to 95.60): VN049866.D (-3348) (-)

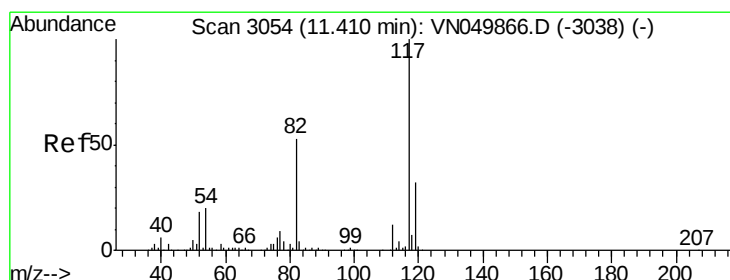
Ion 173.80 (173.50 to 174.50): VN049866.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN049866.D (-3348) (-)

Time-->



Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN049879.D

Acq: 18 Jul 2018 18:03

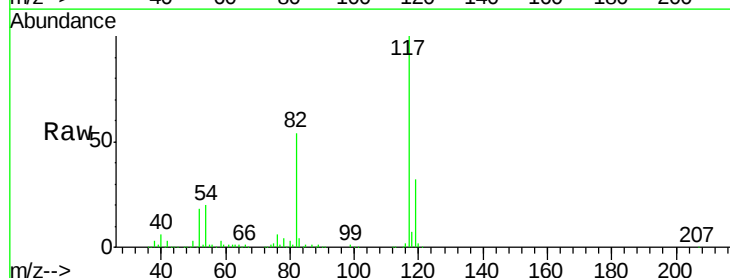
Tgt Ion: 117 Resp: 781018

Ion Ratio Lower Upper

117 100

82 53.9 41.9 62.9

119 32.1 25.4 38.2

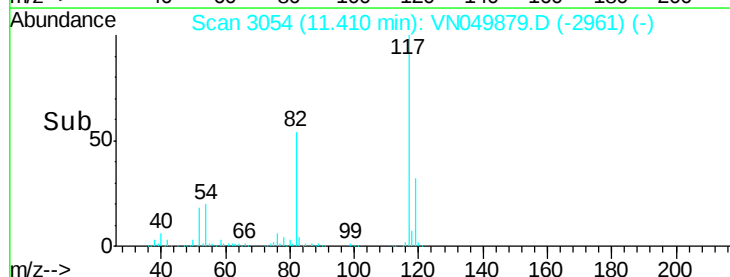


Abundance Ion 116.90 (116.60 to 117.60): VN049866.D (-3038) (-)

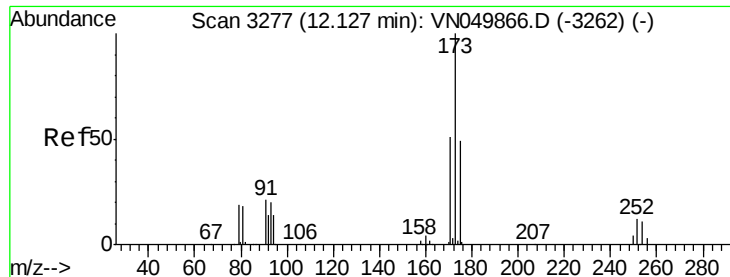
Ion 82.00 (81.70 to 82.70): VN049866.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN049866.D (-3038) (-)

Time-->



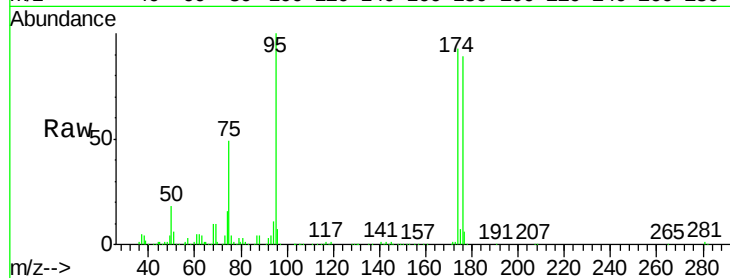
Time-->



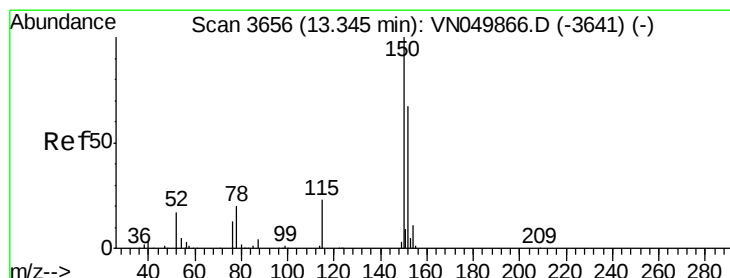
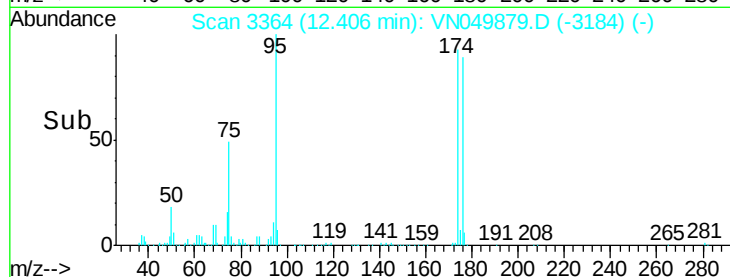
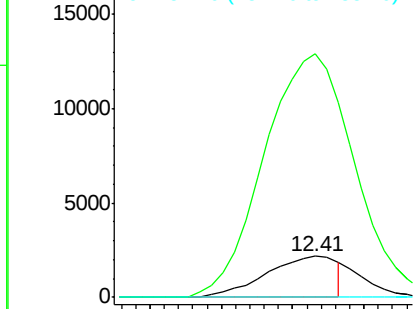
#71
Bromoform
Concen: 0.55 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.28 min
Lab File: VN049879.D
Acq: 18 Jul 2018 18:03

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:173 Resp: 3012
Ion Ratio Lower Upper
173 100
175 600.0 24.6 73.8#
254 0.0 0.2 0.2#

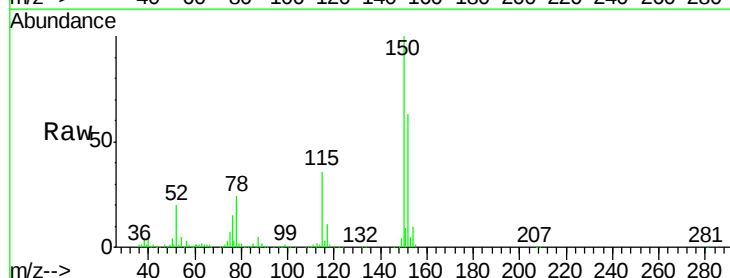


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

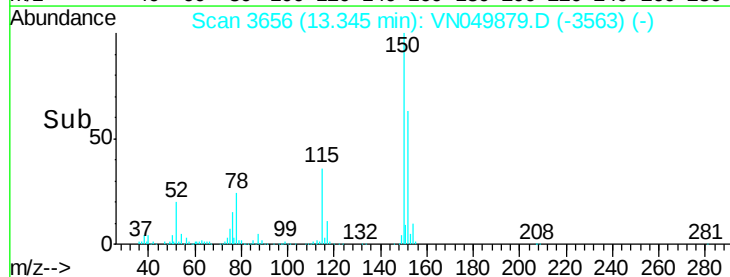
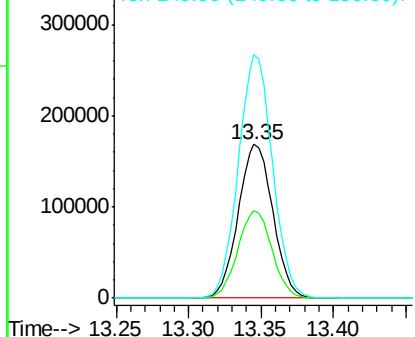


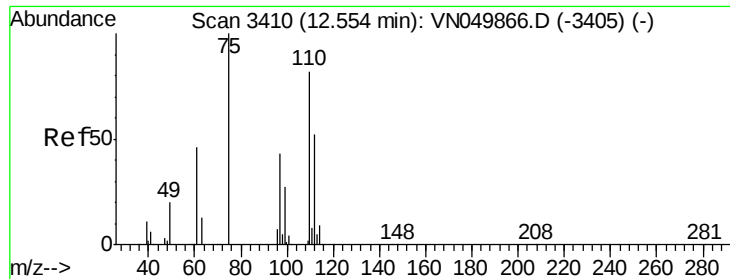
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. -0.00 min
Lab File: VN049879.D
Acq: 18 Jul 2018 18:03

Tgt Ion:152 Resp: 279916
Ion Ratio Lower Upper
152 100
115 56.1 28.1 84.2
150 155.8 0.0 347.6



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

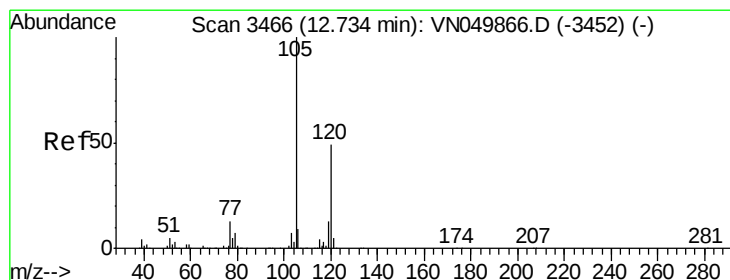
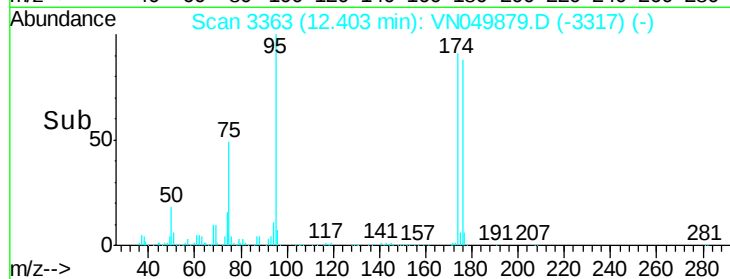
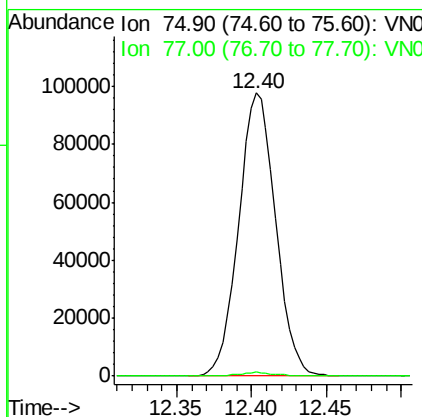
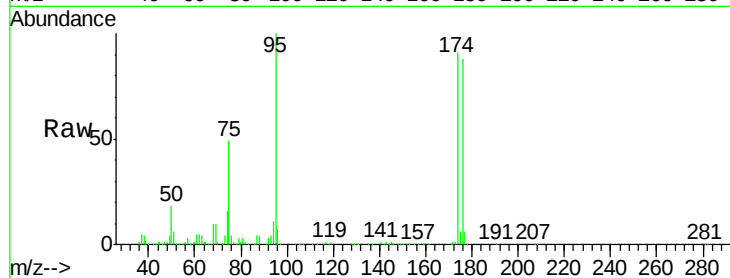




#76
 1,2,3-Trichloropropane
 Concen: 31.89 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.15 min
 Lab File: VN049879.D
 Acq: 18 Jul 2018 18:03

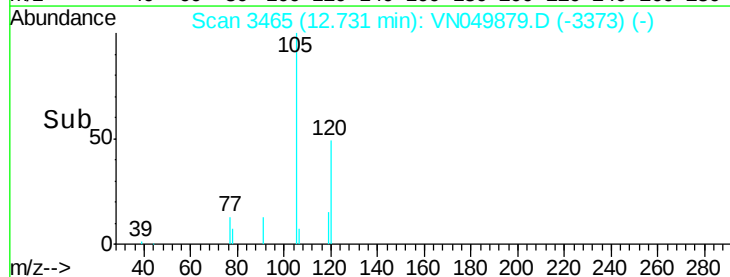
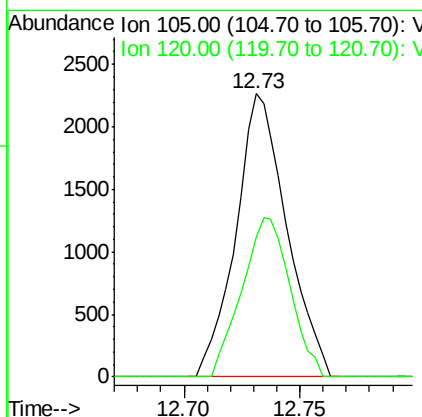
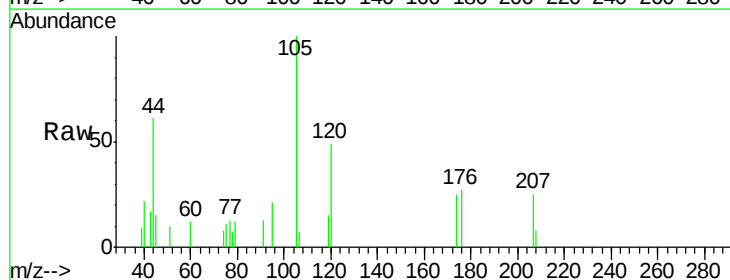
Instrument :
 MSVOA_N
 ClientSampled :

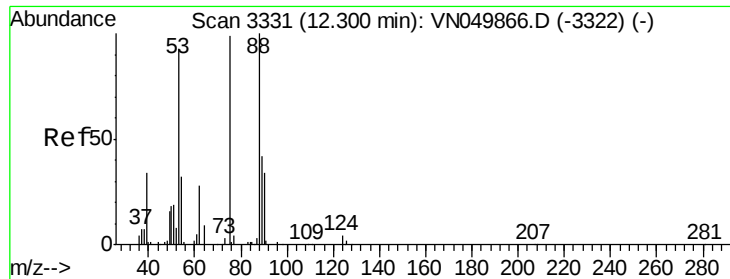
Tot Ion: 75 Resp: 167461
 Ion Ratio Lower Upper
 75 100
 77 1.2 0.0 0.0#



#80
 1,3,5-Trimethylbenzene
 Concen: 0.20 ug/l
 RT: 12.73 min Scan# 3465
 Delta R.T. -0.00 min
 Lab File: VN049879.D
 Acq: 18 Jul 2018 18:03

Tgt Ion: 105 Resp: 3451
 Ion Ratio Lower Upper
 105 100
 120 53.2 24.3 72.8





#81

trans-1,4-Dichloro-2-butene

Concen: 99.72 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049879.D

Acq: 18 Jul 2018 18:03

Instrument :

MSVOA_N

ClientSampleId :

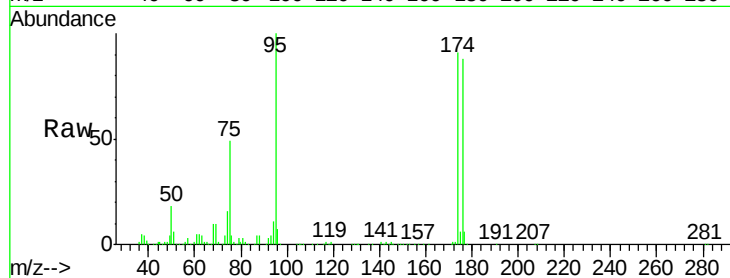
Tot Ion: 75 Resp: 167461

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

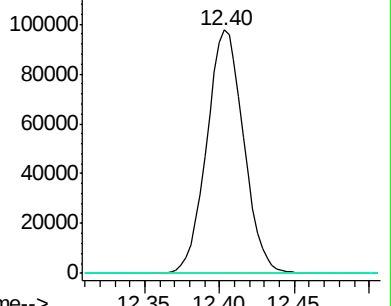
89 0.0 35.9 53.9#



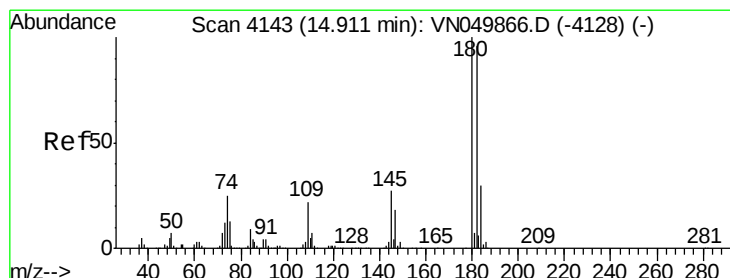
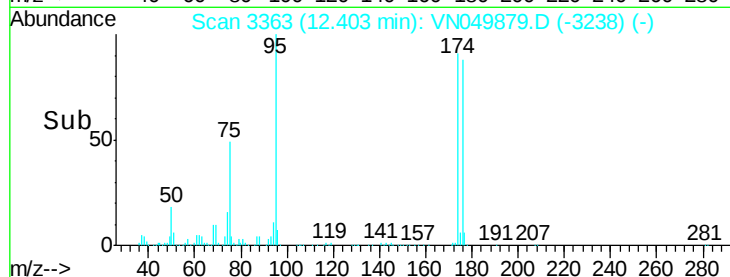
Abundance Ion 74.90 (74.60 to 75.60): VN049879.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN049879.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN049879.D (-3363) (-)



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 3.57 ug/l

RT: 14.91 min Scan# 4143

Delta R.T. -0.00 min

Lab File: VN049879.D

Acq: 18 Jul 2018 18:03

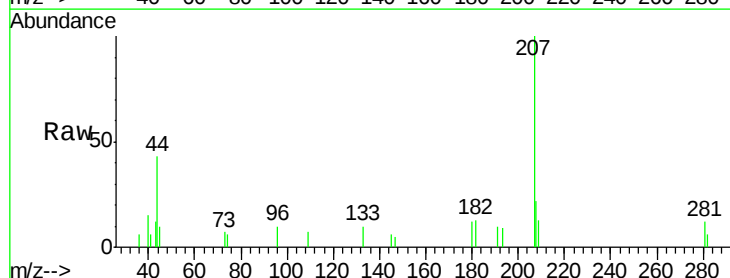
Tgt Ion:180 Resp: 586

Ion Ratio Lower Upper

180 100

182 87.0 47.3 141.9

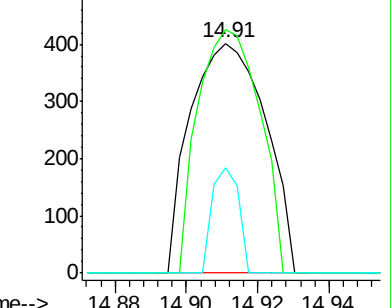
145 16.2 14.4 43.0



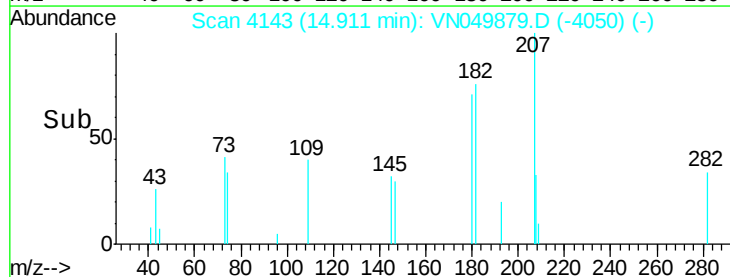
Abundance Ion 179.80 (179.50 to 180.50): VN049879.D (-4143) (-)

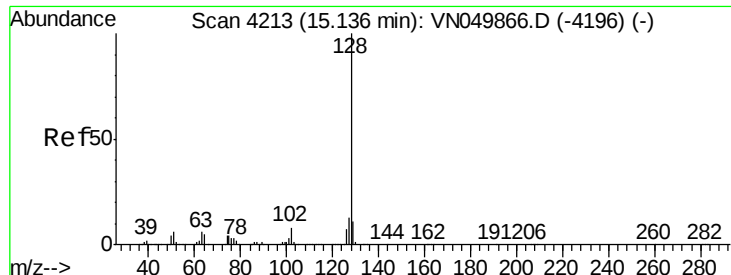
Ion 181.80 (181.50 to 182.50): VN049879.D (-4143) (-)

Ion 144.80 (144.50 to 145.50): VN049879.D (-4143) (-)



Time-->

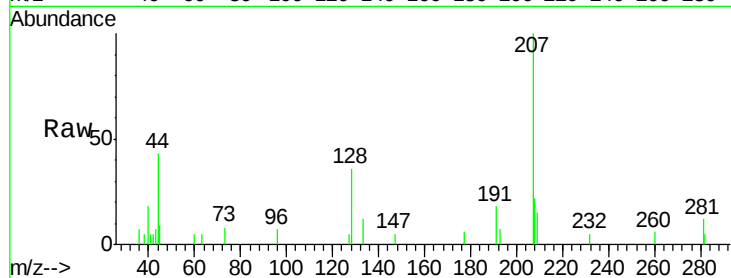




#95
 Naphthalene
 Concen: 4.63 ug/l
 RT: 15.13 min Scan# 4212
 Delta R.T. -0.00 min
 Lab File: VN049879.D
 Acq: 18 Jul 2018 18:03

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
128	100		
127	8.2	10.4	15.6#
129	3.1	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

