

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN062218\
 Data File : VN049503.D
 Acq On : 22 Jun 2018 20:15
 Operator : MD\SY
 Sample : J3647-01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 22 22:17:37 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 16 01:02:01 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1126927	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1779732	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1470226	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	399351	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	774099	51.79	ug/l	0.00
Spiked Amount			Recovery	=	103.58%	
35) Dibromofluoromethane	7.59	113	688090	47.79	ug/l	0.00
Spiked Amount			Recovery	=	95.58%	
50) Toluene-d8	10.09	98	2450488	44.70	ug/l	0.00
Spiked Amount			Recovery	=	89.40%	
62) 4-Bromofluorobenzene	12.41	95	589663	32.53	ug/l	0.00
Spiked Amount			Recovery	=	65.06%	

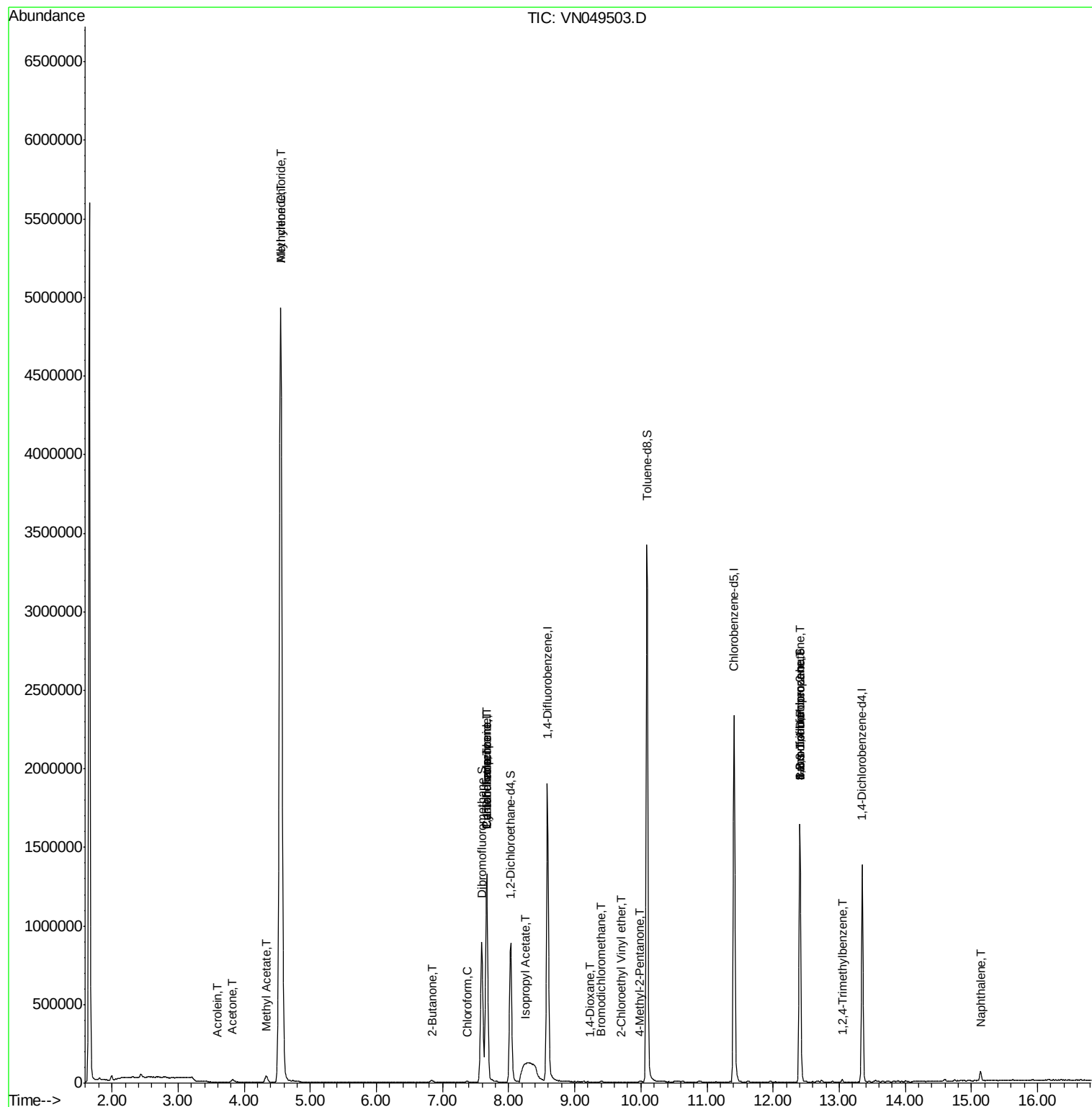
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	510	0.55	ug/l #	43
14) Allyl chloride	4.55	41	130139	6.38	ug/l #	20
16) Acetone	3.82	43	26713	7.36	ug/l #	86
18) Methyl Acetate	4.33	43	82250	7.43	ug/l	98
20) Methylene Chloride	4.55	84	3840586	253.38	ug/l	91
25) 2-Butanone	6.85	43	3295	0.68	ug/l #	76
30) Chloroform	7.37	83	8653	0.33	ug/l #	80
31) Cyclohexane	7.67	56	20659	0.76	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	81507	4.00	ug/l #	50
38) Carbon Tetrachloride	7.67	117	102364	4.85	ug/l #	17
43) Isopropyl Acetate	8.25	43	146048	6.89	ug/l #	64
47) Bromodichloromethane	9.40	83	4903	0.24	ug/l #	91
49) 1,4-Dioxane	9.22	88	29	0.21	ug/l #	21
51) 4-Methyl-2-Pentanone	9.99	43	2455	0.22	ug/l #	84
58) 2-Chloroethyl Vinyl ether	9.71	63	58	14.34	ug/l #	51
71) Bromoform	12.40	173	4984	0.54	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.42	83	123	Below Cal	#	1
76) 1,2,3-Trichloropropane	12.40	75	288793	42.38	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	288793	133.95	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.04	105	9403	0.34	ug/l	97
90) Hexachloroethane	13.90	117	385	Below Cal	#	9
95) Naphthalene	15.14	128	54039	6.90	ug/l	98

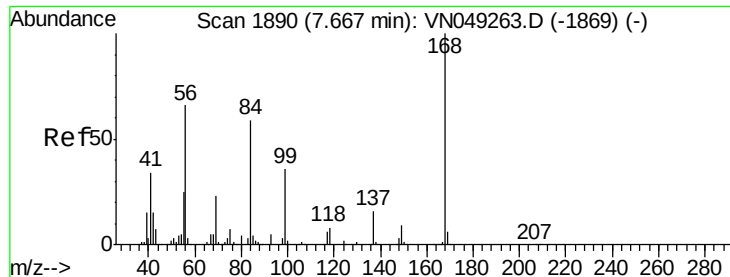
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N061618W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 16 01:02:01 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: VN049503.D

Acq: 22 Jun 2018 20:15

Instrument :

MSVOA_N

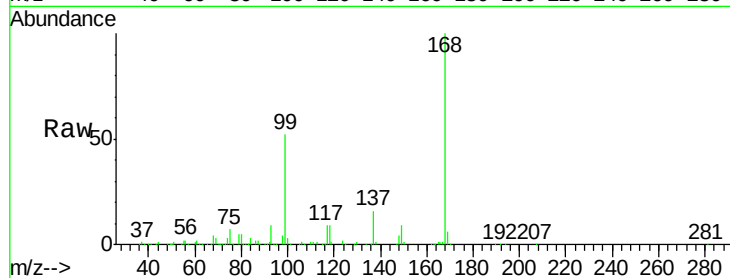
ClientSampleId :

Tot Ion:168 Resp: 1126927

Ion Ratio Lower Upper

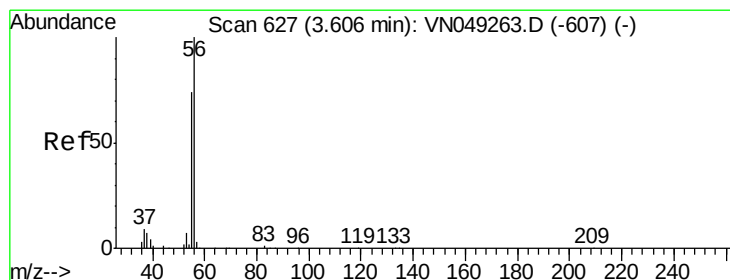
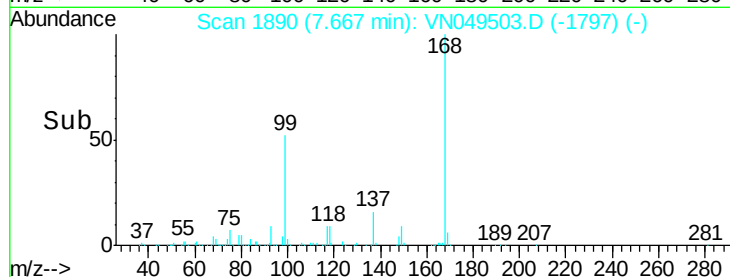
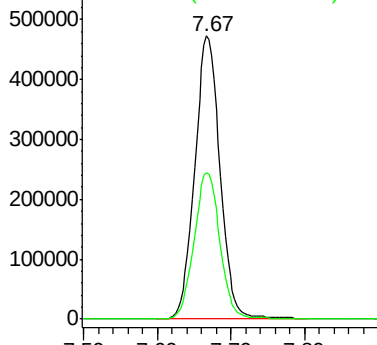
168 100

99 51.9 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#13

Acrolein

Concen: 0.55 ug/l

RT: 3.60 min Scan# 625

Delta R.T. -0.01 min

Lab File: VN049503.D

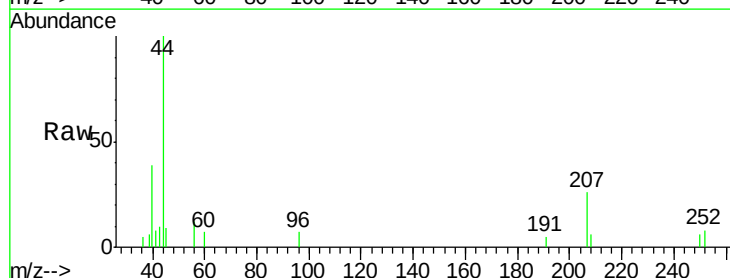
Acq: 22 Jun 2018 20:15

Tgt Ion: 56 Resp: 510

Ion Ratio Lower Upper

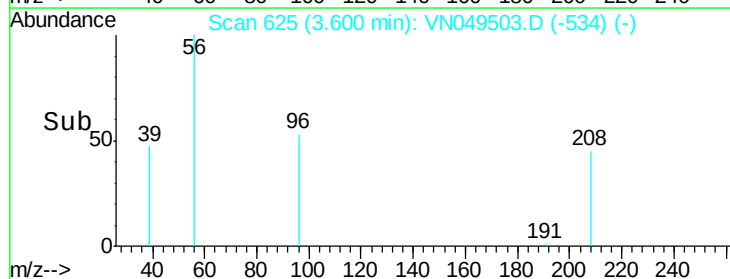
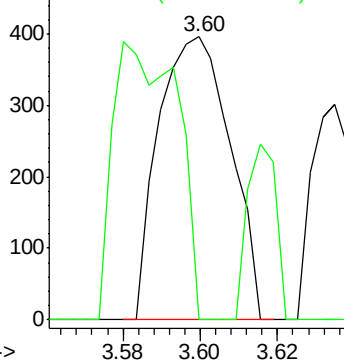
56 100

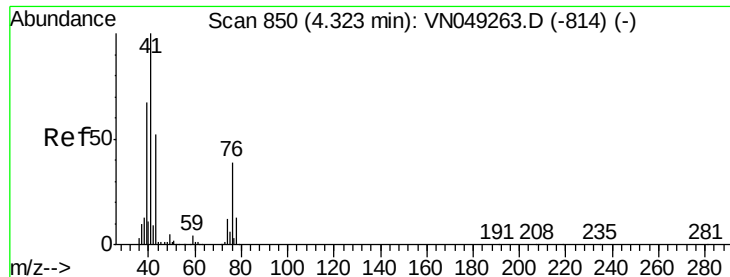
55 24.5 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

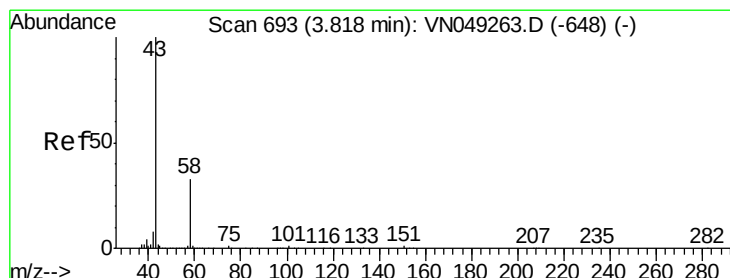
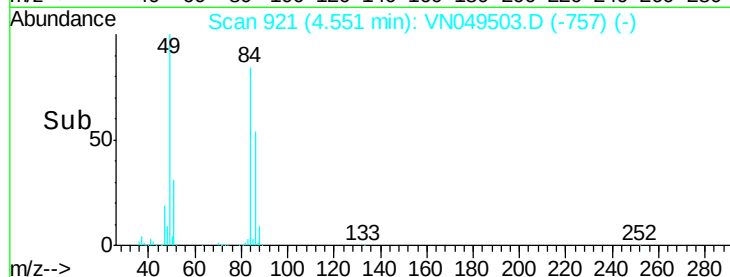
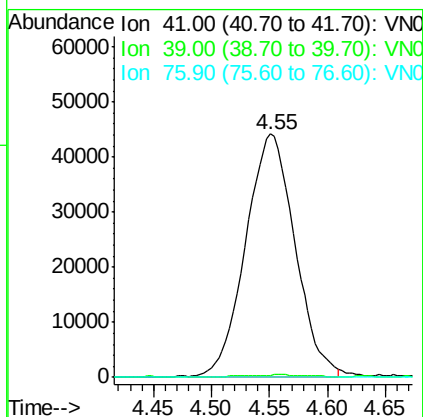
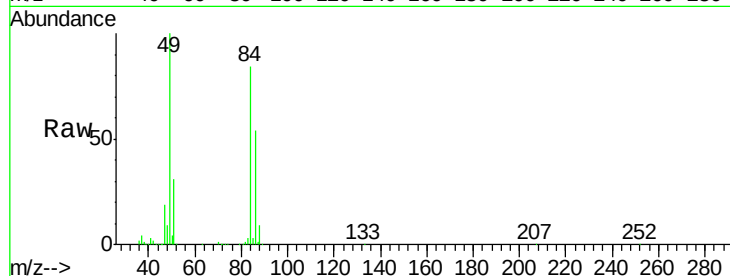




#14
Allvl chloride
Concen: 6.38 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.23 min
Lab File: VN049503.D
Acq: 22 Jun 2018 20:15

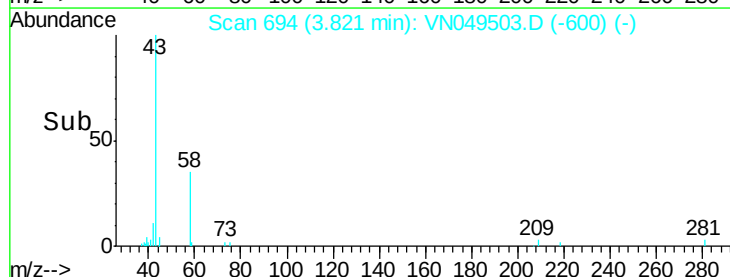
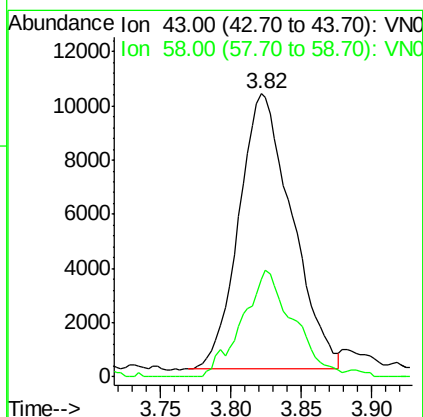
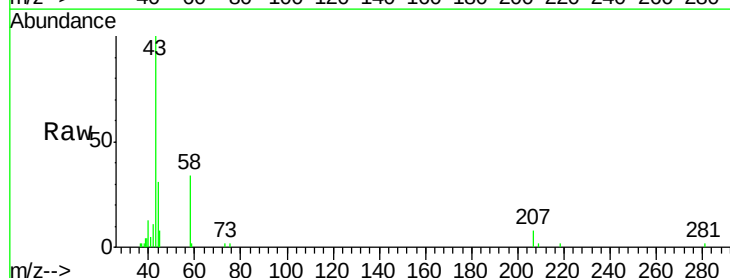
Instrument :
MSVOA_N
ClientSampled :

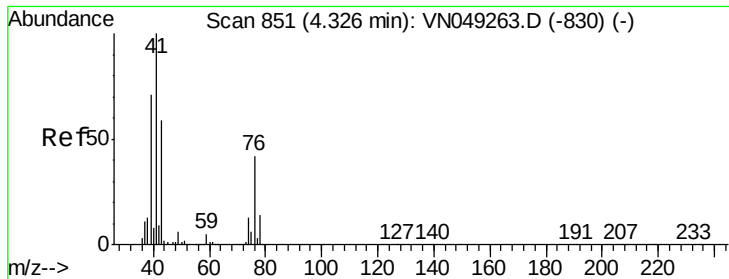
Tot Ion	Ratio	Lower	Upper
41	100		
39	1.1	62.5	93.7#
76	0.0	27.1	40.7#



#16
Acetone
Concen: 7.36 ug/l
RT: 3.82 min Scan# 694
Delta R.T. 0.00 min
Lab File: VN049503.D
Acq: 22 Jun 2018 20:15

Tgt Ion	Ratio	Lower	Upper
43	100		
58	35.4	22.4	33.6#

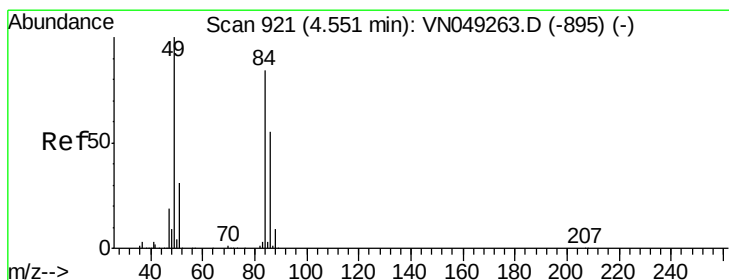
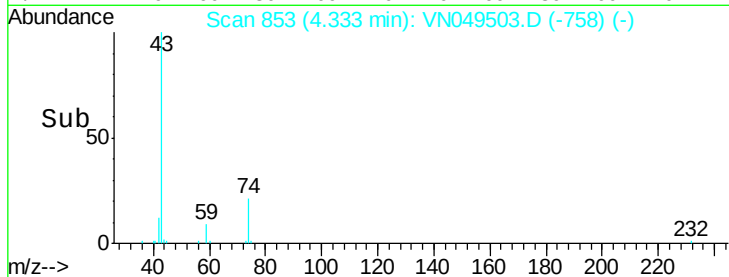
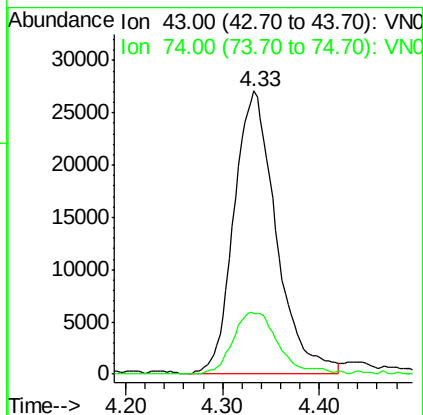
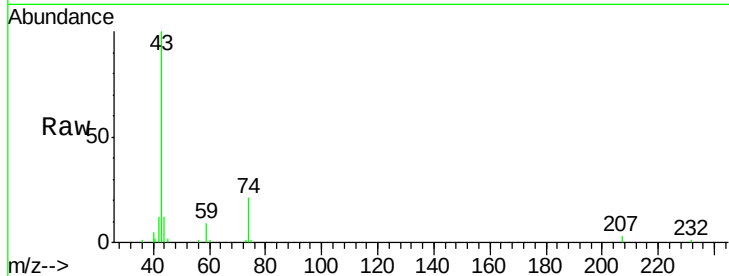




#18
Methvl Acetate
Concen: 7.43 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.01 min
Lab File: VN049503.D
Acq: 22 Jun 2018 20:15

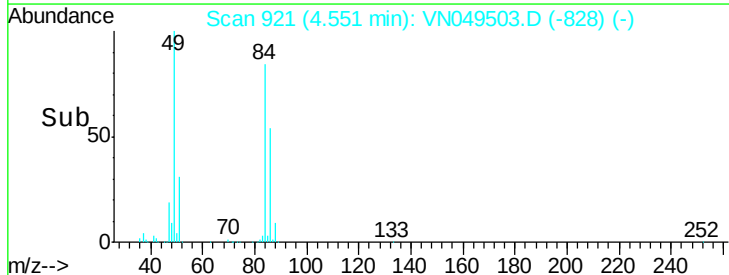
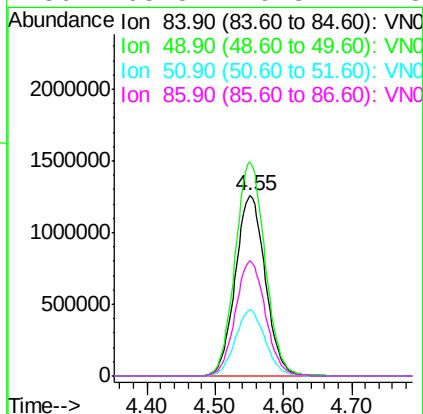
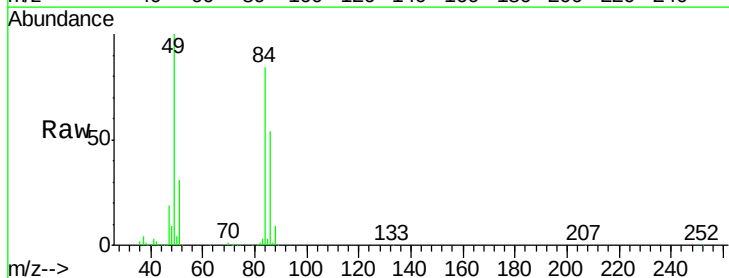
Instrument :
MSVOA_N
ClientSampled :

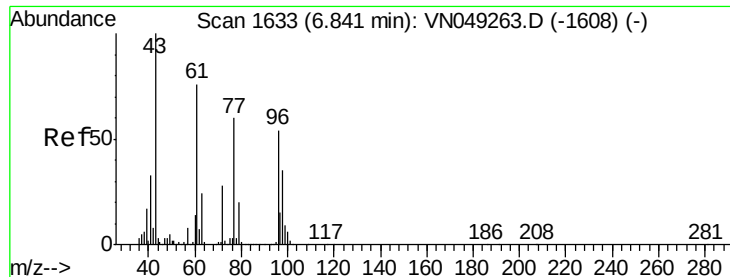
Tot Ion: 43 Resp: 82250
Ion Ratio Lower Upper
43 100
74 22.7 17.4 26.0



#20
Methylene Chloride
Concen: 253.38 ug/l
RT: 4.55 min Scan# 921
Delta R.T. -0.00 min
Lab File: VN049503.D
Acq: 22 Jun 2018 20:15

Tgt Ion: 84 Resp: 3840586
Ion Ratio Lower Upper
84 100
49 118.4 106.9 160.3
51 36.7 32.7 49.1
86 63.8 49.8 74.8





#25

2-Butanone

Concen: 0.68 ug/l

RT: 6.85 min Scan# 1636

Delta R.T. 0.01 min

Lab File: VN049503.D

Acq: 22 Jun 2018 20:15

Instrument :

MSVOA_N

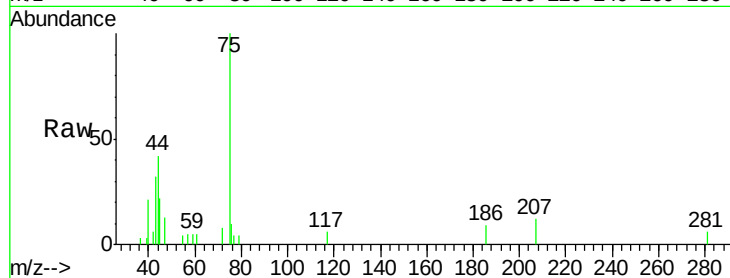
ClientSampleId :

Tot Ion: 43 Resp: 3295

Ion Ratio Lower Upper

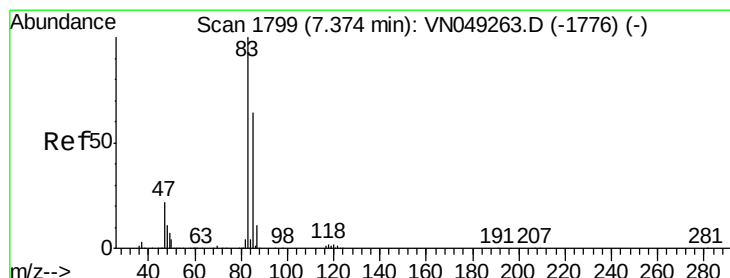
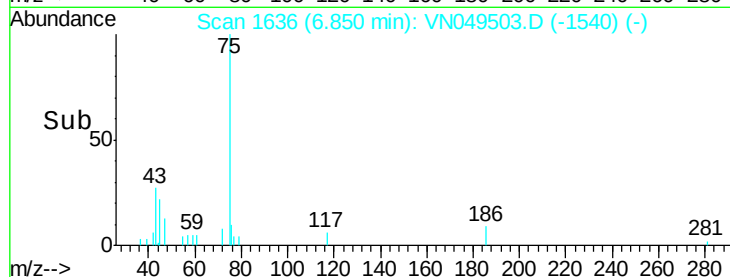
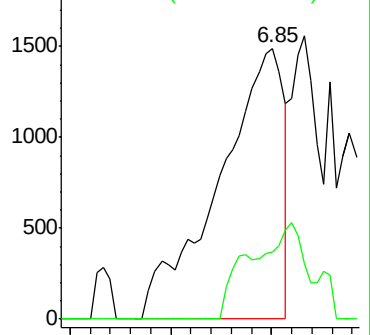
43 100

72 12.9 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN049503.D (-1540) (-)

Ion 72.00 (71.70 to 72.70): VN049503.D (-1540) (-)



#30

Chloroform

Concen: 0.33 ug/l

RT: 7.37 min Scan# 1798

Delta R.T. -0.00 min

Lab File: VN049503.D

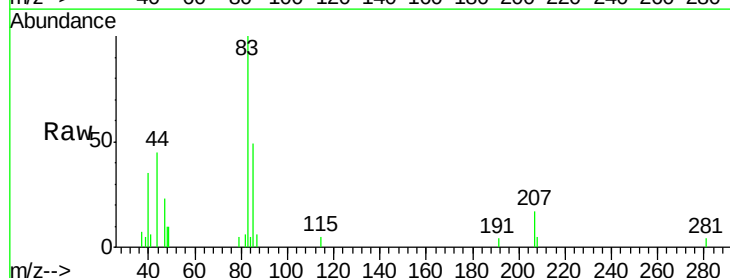
Acq: 22 Jun 2018 20:15

Tgt Ion: 83 Resp: 8653

Ion Ratio Lower Upper

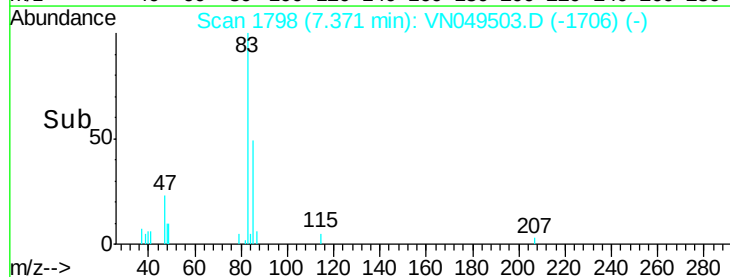
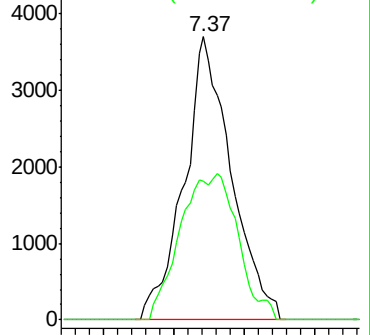
83 100

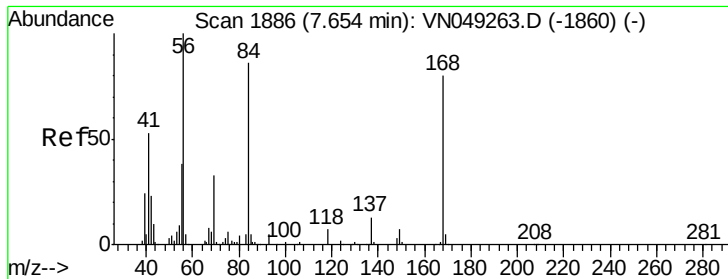
85 48.9 51.7 77.5#



Abundance Ion 82.90 (82.60 to 83.60): VN049503.D (-1706) (-)

Ion 84.90 (84.60 to 85.60): VN049503.D (-1706) (-)

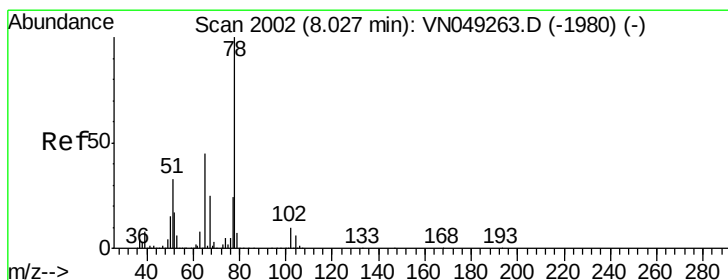
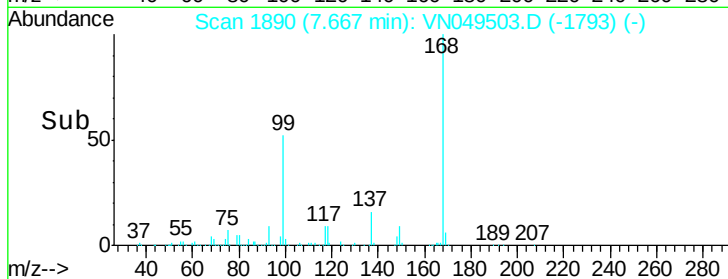
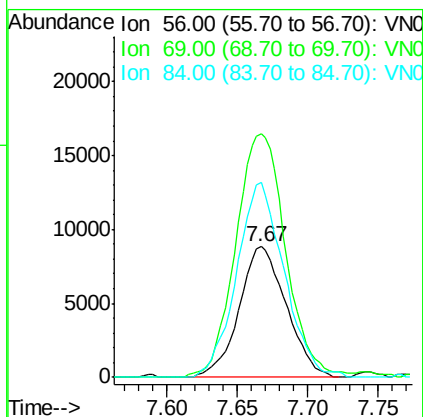
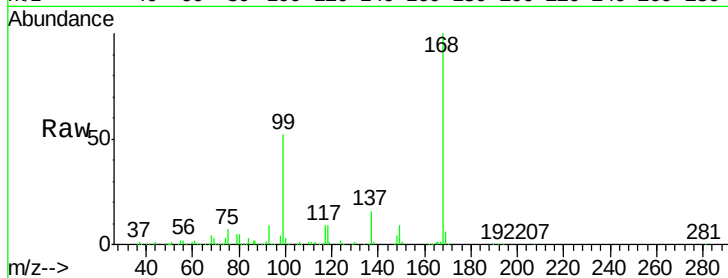




#31
Cyclohexane
Concen: 0.76 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. 0.01 min
Lab File: VN049503.D
Acq: 22 Jun 2018 20:15

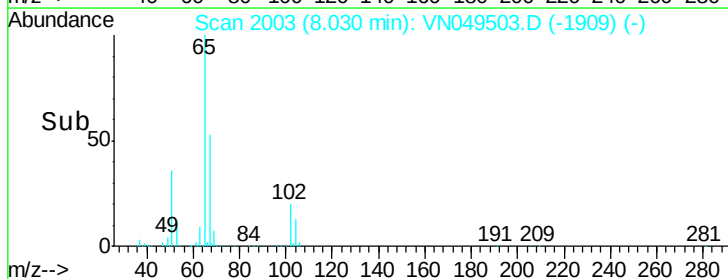
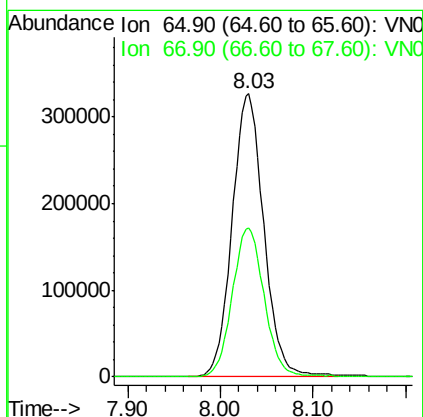
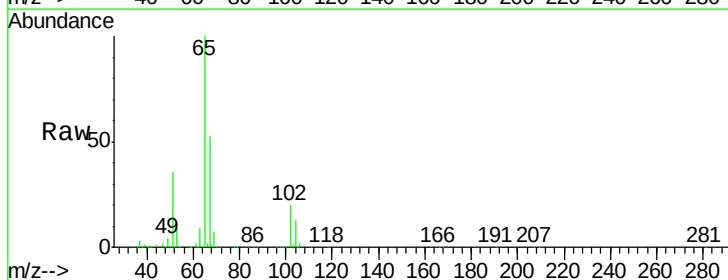
Instrument :
MSVOA_N
ClientSampled :

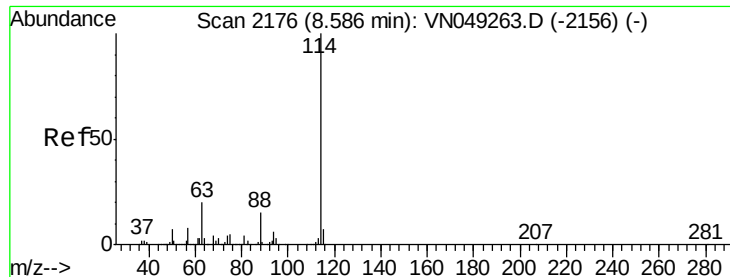
Tot Ion: 56 Resp: 20659
Ion Ratio Lower Upper
56 100
69 184.1 25.0 37.4#
84 148.9 64.6 96.8#



#33
1,2-Dichloroethane-d4
Concen: 51.79 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049503.D
Acq: 22 Jun 2018 20:15

Tgt Ion: 65 Resp: 774099
Ion Ratio Lower Upper
65 100
67 53.0 0.0 103.8

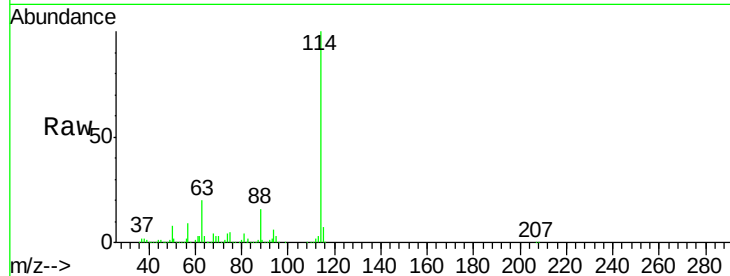




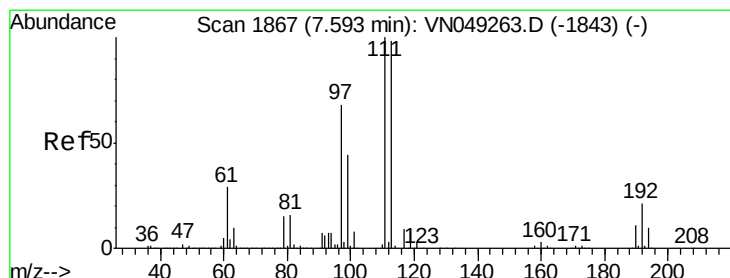
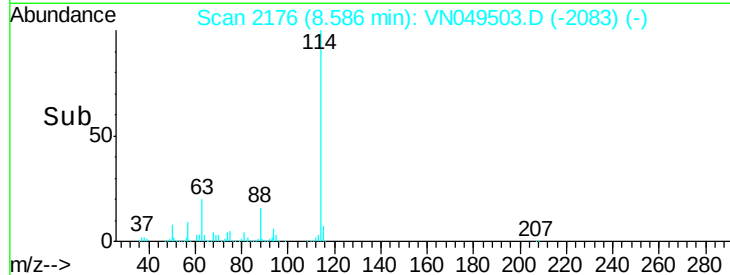
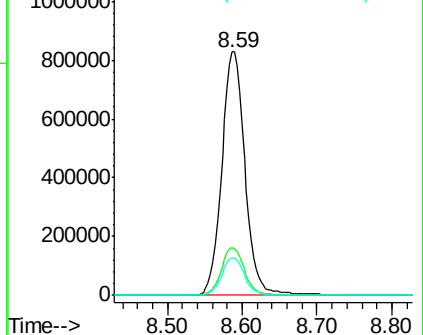
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.59 min Scan# 2176
Delta R.T. -0.00 min
Lab File: VN049503.D
Acq: 22 Jun 2018 20:15

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:114 Resp: 1779732
Ion Ratio Lower Upper
114 100
63 19.9 0.0 44.4
88 15.6 0.0 31.4

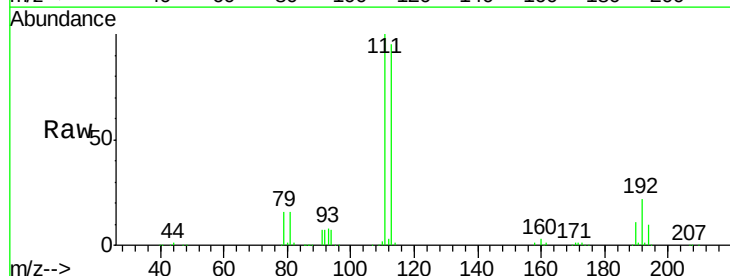


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

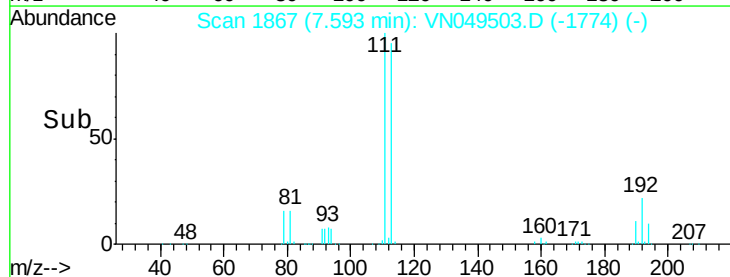
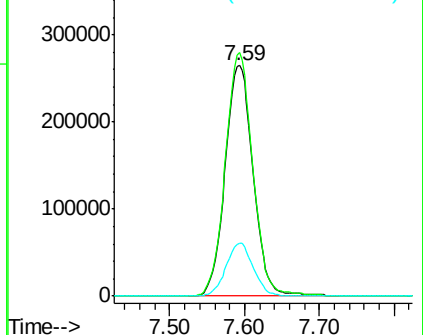


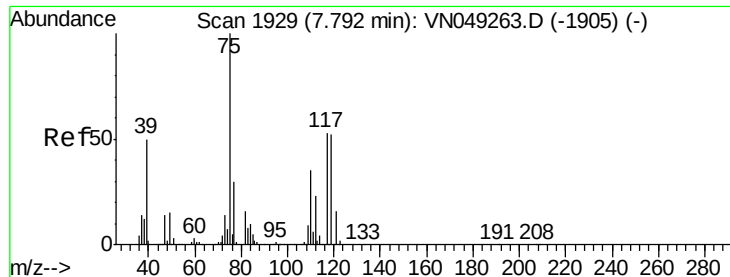
#35
Dibromofluoromethane
Concen: 47.79 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. -0.00 min
Lab File: VN049503.D
Acq: 22 Jun 2018 20:15

Tgt Ion:113 Resp: 688090
Ion Ratio Lower Upper
113 100
111 103.3 82.4 123.6
192 22.4 15.0 22.6



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: 4.00 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.13 min

Lab File: VN049503.D

Acq: 22 Jun 2018 20:15

Instrument :

MSVOA_N

ClientSampled :

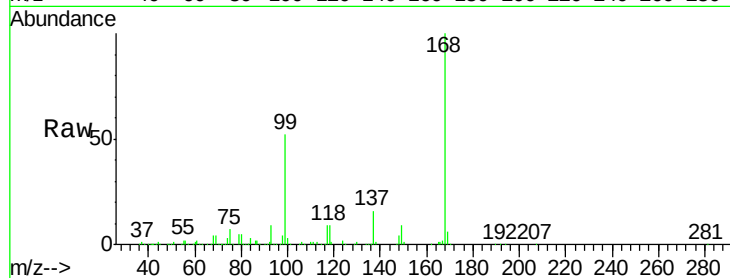
Tot Ion: 75 Resp: 81507

Ion Ratio Lower Upper

75 100

110 8.7 17.0 50.9#

77 0.1 24.4 36.6#

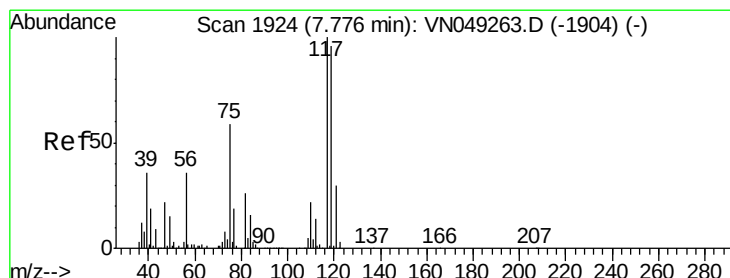
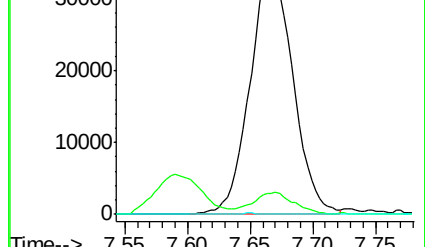
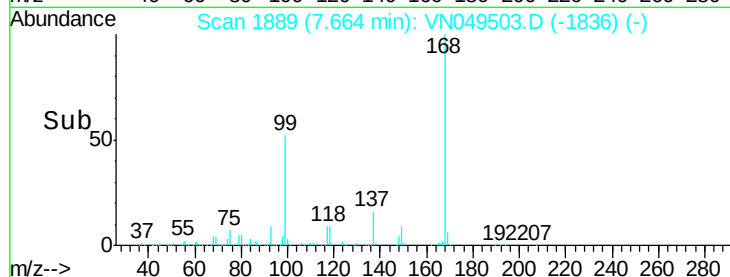


Abundance Ion 74.90 (74.60 to 75.60): VN049503.D (-1836) (-)

Ion 109.90 (109.60 to 110.60): VN049503.D (-1836) (-)

Ion 76.90 (76.60 to 77.60): VN049503.D (-1836) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 4.85 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049503.D

Acq: 22 Jun 2018 20:15

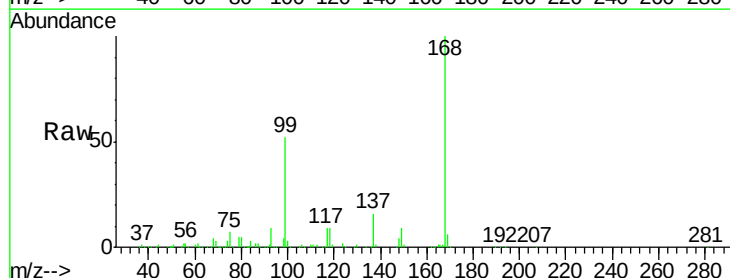
Tgt Ion: 117 Resp: 102364

Ion Ratio Lower Upper

117 100

119 5.4 75.6 113.4#

121 0.0 24.7 37.1#

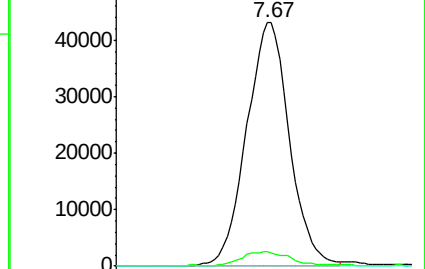
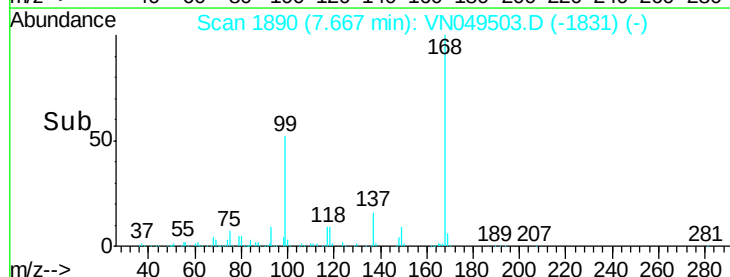


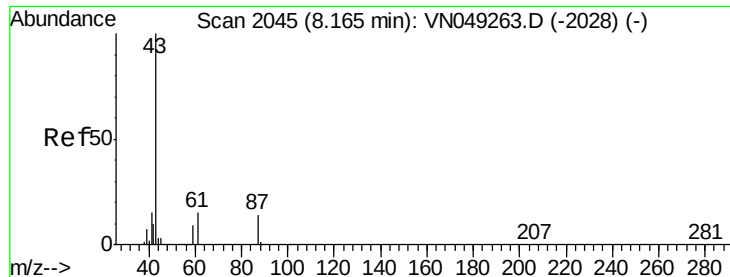
Abundance Ion 116.80 (116.50 to 117.50): VN049503.D (-1831) (-)

Ion 118.80 (118.50 to 119.50): VN049503.D (-1831) (-)

Ion 120.80 (120.50 to 121.50): VN049503.D (-1831) (-)

Time-->

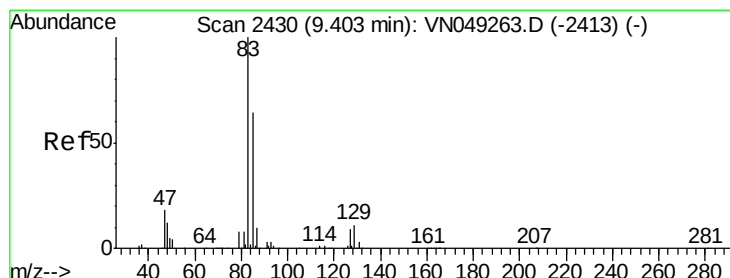
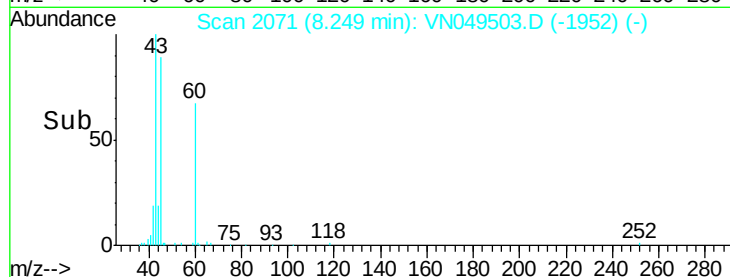
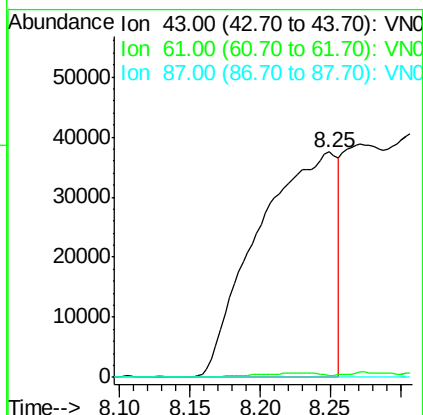
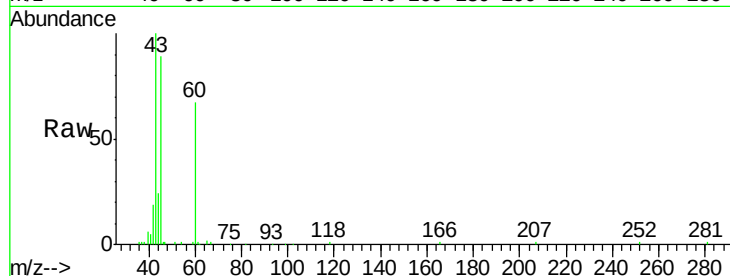




#43
Isopropyl Acetate
Concen: 6.89 ug/l
RT: 8.25 min Scan# 2071
Delta R.T. 0.08 min
Lab File: VN049503.D
Acq: 22 Jun 2018 20:15

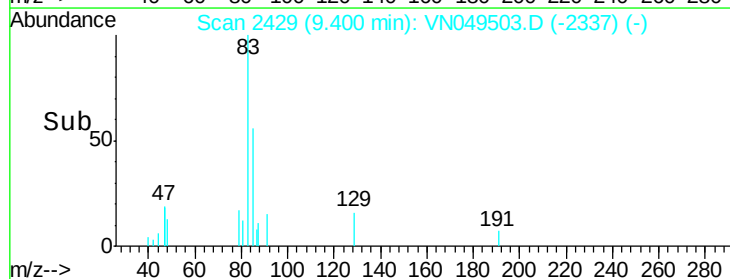
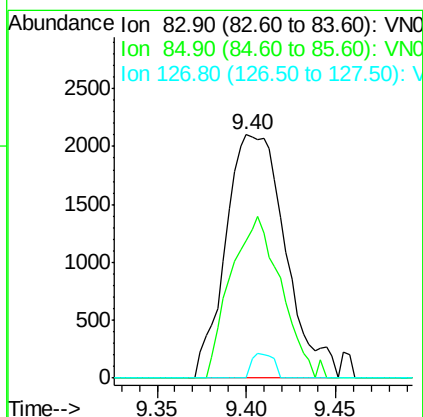
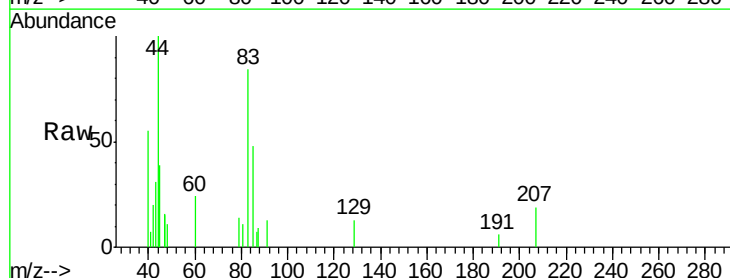
Instrument :
MSVOA_N
ClientSampled :

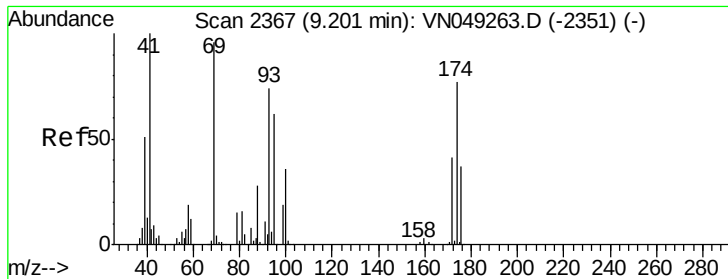
Tot Ion: 43 Resp: 146048
Ion Ratio Lower Upper
43 100
61 0.0 14.2 21.4#
87 0.0 9.4 14.0#



#47
Bromodichloromethane
Concen: 0.24 ug/l
RT: 9.40 min Scan# 2429
Delta R.T. -0.00 min
Lab File: VN049503.D
Acq: 22 Jun 2018 20:15

Tgt Ion: 83 Resp: 4903
Ion Ratio Lower Upper
83 100
85 56.3 49.4 74.0
127 0.0 6.3 9.5#

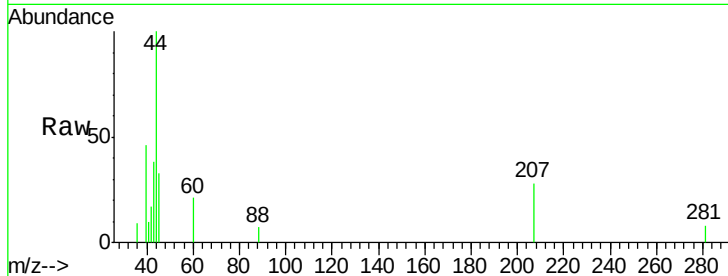




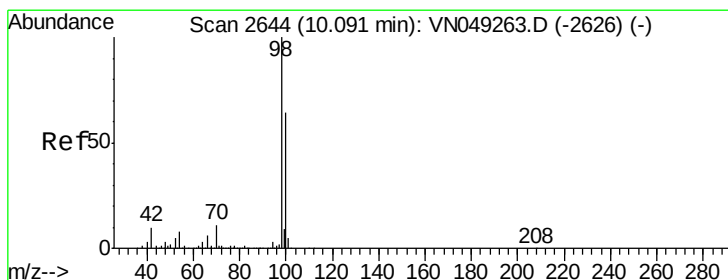
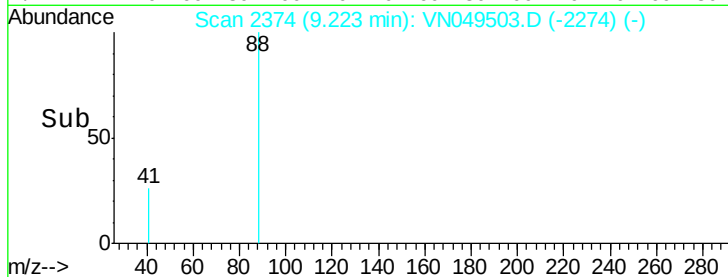
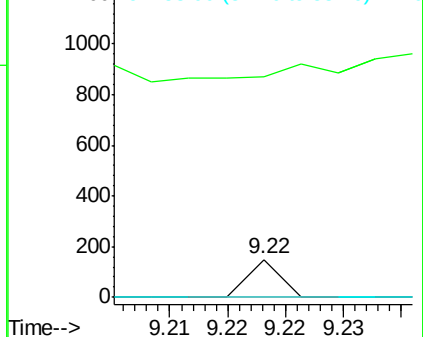
#49
1,4-Dioxane
Concen: 0.21 ug/l
RT: 9.22 min Scan# 2374
Delta R.T. 0.02 min
Lab File: VN049503.D
Acq: 22 Jun 2018 20:15

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion: 88 Resp: 29
Ion Ratio Lower Upper
88 100
43 0.0 30.9 46.3#
58 0.0 58.9 88.3#

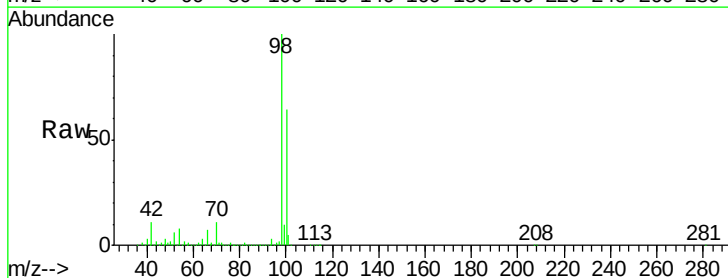


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

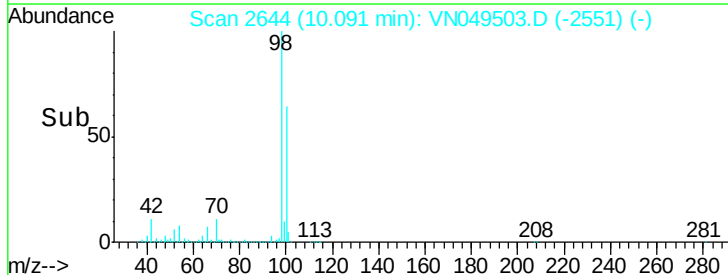
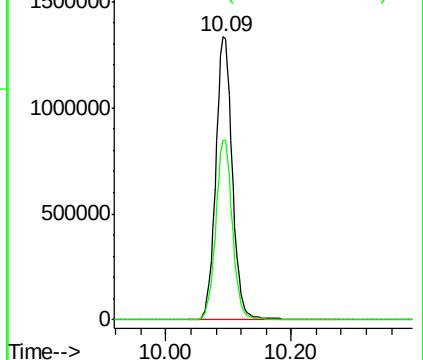


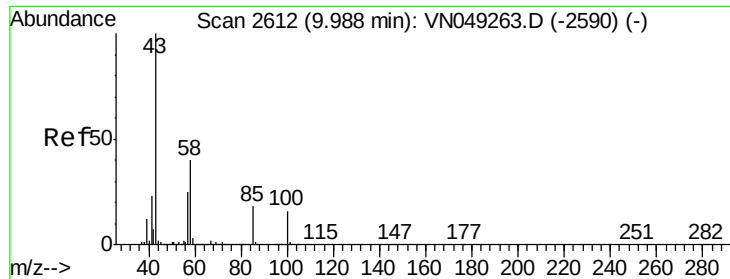
#50
Toluene-d8
Concen: 44.70 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049503.D
Acq: 22 Jun 2018 20:15

Tgt Ion: 98 Resp: 2450488
Ion Ratio Lower Upper
98 100
100 63.6 49.8 74.8



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

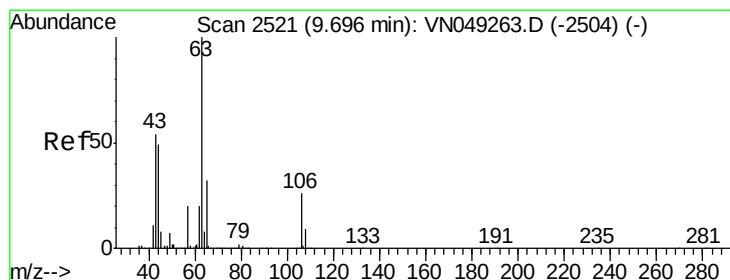
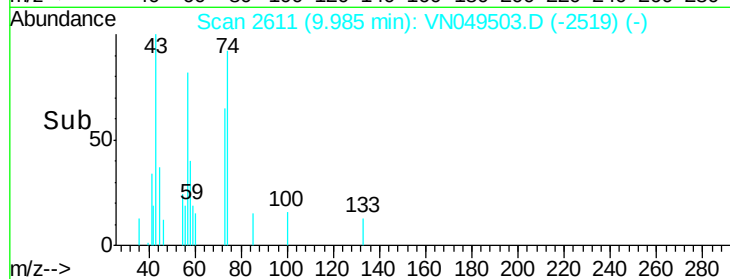
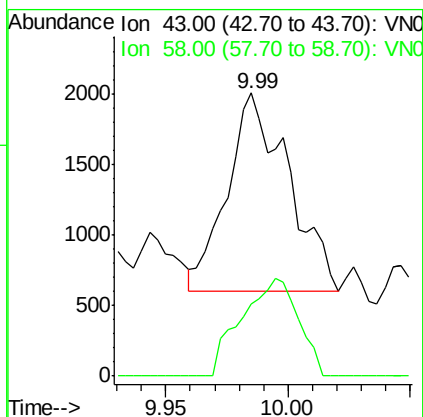
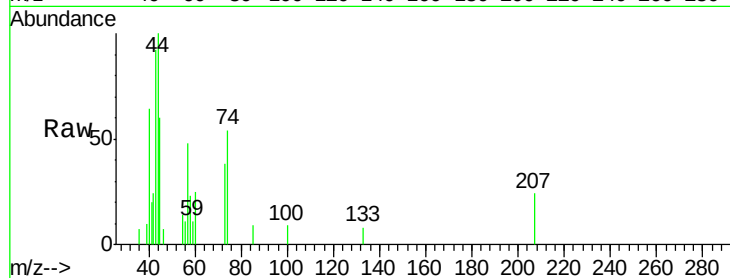




#51
 4-Methyl-2-Pentanone
 Concen: 0.22 ug/l
 RT: 9.99 min Scan# 2611
 Delta R.T. -0.00 min
 Lab File: VN049503.D
 Acq: 22 Jun 2018 20:15

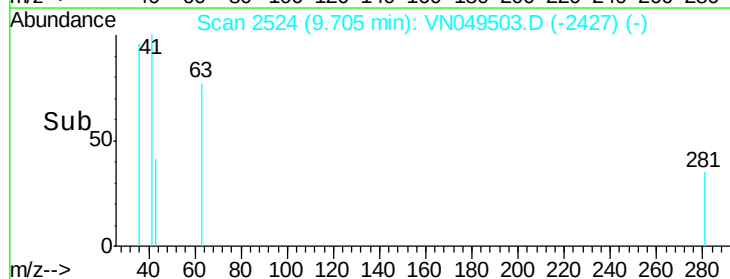
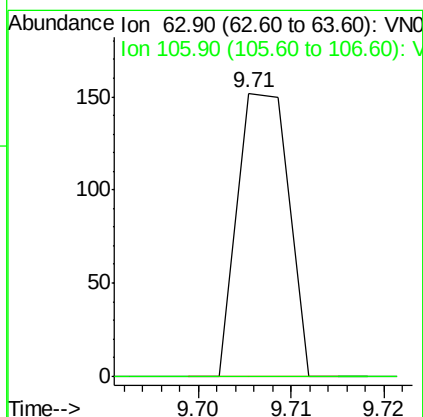
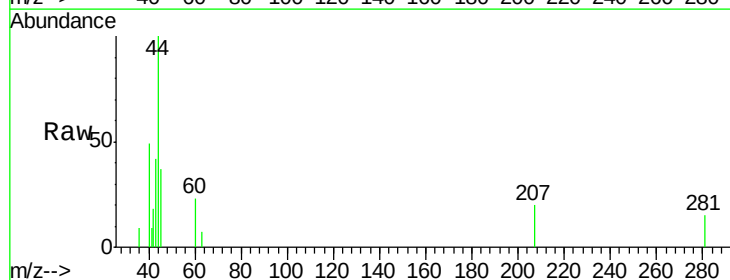
Instrument :
 MSVOA_N
 ClientSampled :

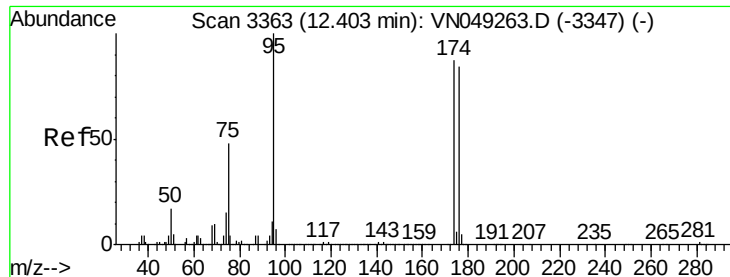
Tot Ion: 43 Resp: 2455
 Ion Ratio Lower Upper
 43 100
 58 45.8 29.0 43.6#



#58
 2-Chloroethyl Vinyl ether
 Concen: 14.34 ug/l
 RT: 9.71 min Scan# 2524
 Delta R.T. 0.01 min
 Lab File: VN049503.D
 Acq: 22 Jun 2018 20:15

Tgt Ion: 63 Resp: 58
 Ion Ratio Lower Upper
 63 100
 106 0.0 19.4 29.2#





#62

4-Bromofluorobenzene

Concen: 32.53 ug/l

RT: 12.41 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN049503.D

Acq: 22 Jun 2018 20:15

Instrument :

MSVOA_N

ClientSampleId :

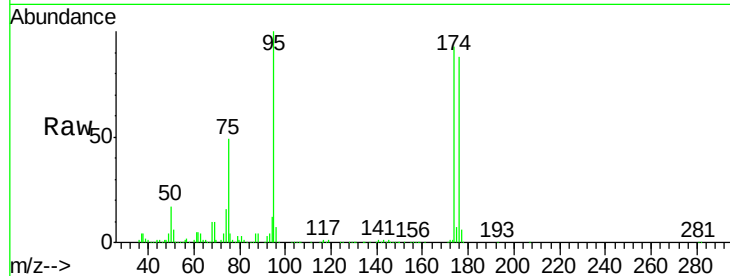
Tot Ion: 95 Resp: 589663

Ion Ratio Lower Upper

95 100

174 90.6 0.0 165.6

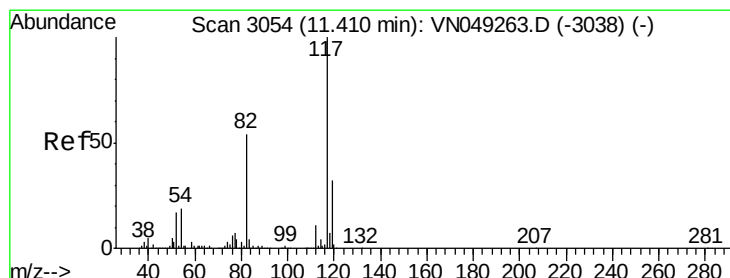
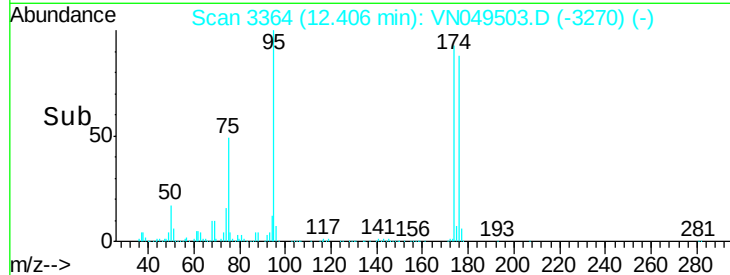
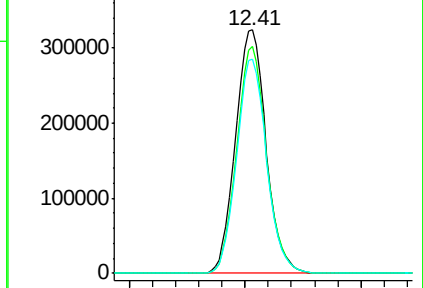
176 86.4 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN049263.D (-3347) (-)

Ion 173.80 (173.50 to 174.50): VN049263.D (-3347) (-)

Ion 175.80 (175.50 to 176.50): VN049263.D (-3347) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN049503.D

Acq: 22 Jun 2018 20:15

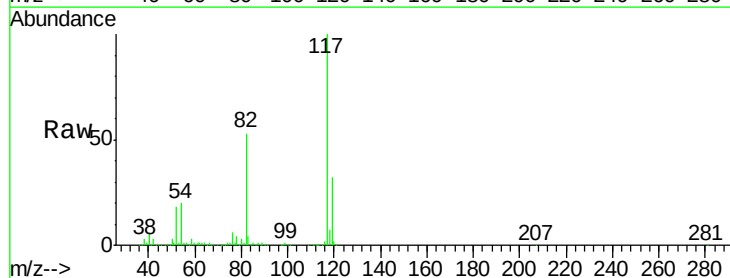
Tgt Ion: 117 Resp: 1470226

Ion Ratio Lower Upper

117 100

82 52.8 45.9 68.9

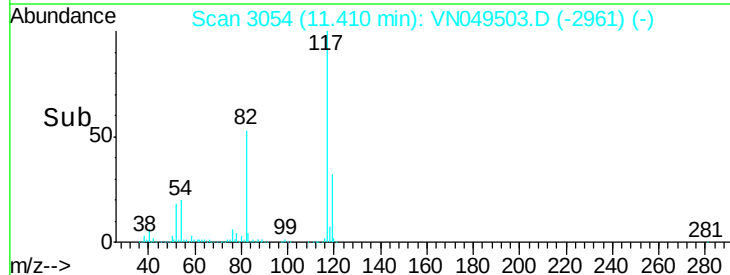
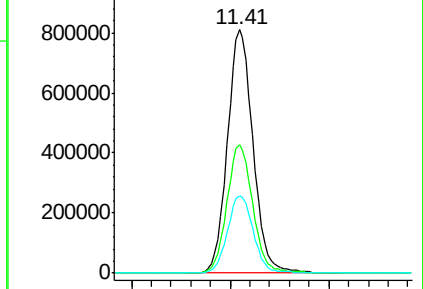
119 31.5 25.5 38.3

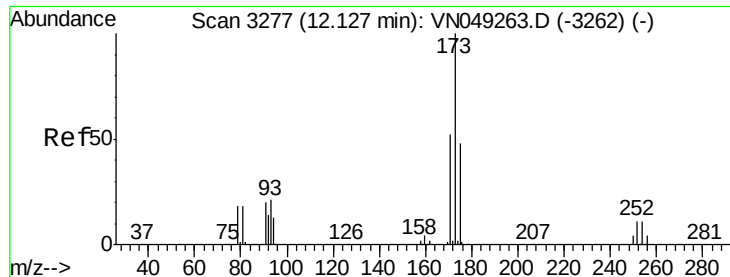


Abundance Ion 116.90 (116.60 to 117.60): VN049263.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN049263.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN049263.D (-3038) (-)





#71

Bromoform

Concen: 0.54 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.28 min

Lab File: VN049503.D

Acq: 22 Jun 2018 20:15

Instrument :

MSVOA_N

ClientSampleId :

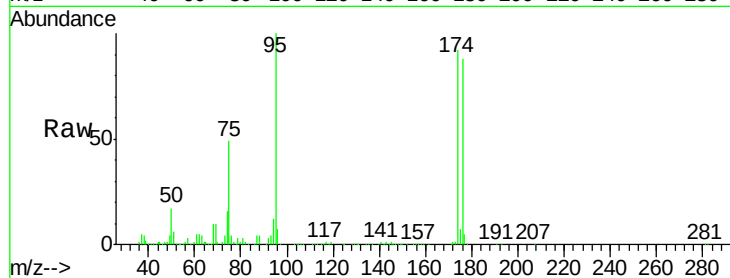
Tot Ion:173 Resp: 4984

Ion Ratio Lower Upper

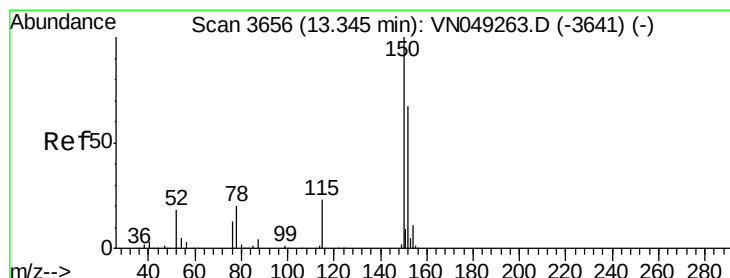
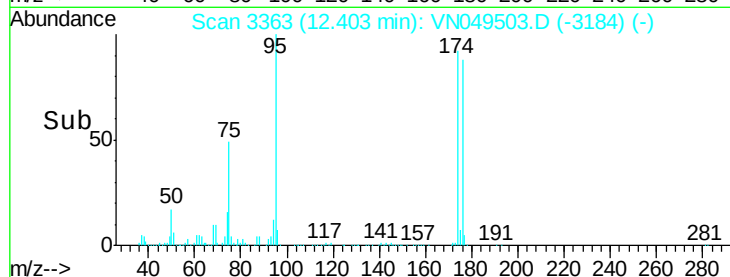
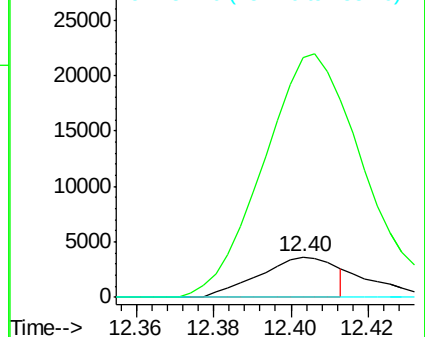
173 100

175 592.0 24.5 73.5#

254 0.0 0.1 0.1#



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# 3657

Delta R.T. 0.00 min

Lab File: VN049503.D

Acq: 22 Jun 2018 20:15

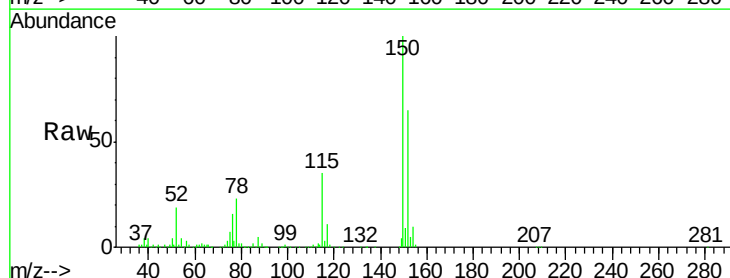
Tgt Ion:152 Resp: 399351

Ion Ratio Lower Upper

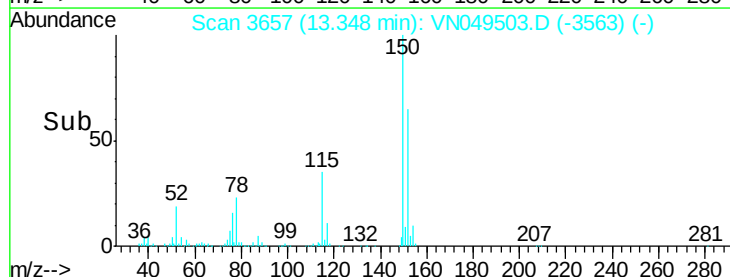
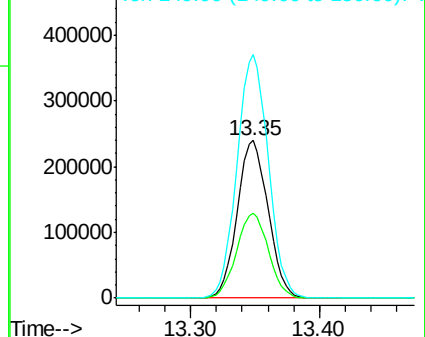
152 100

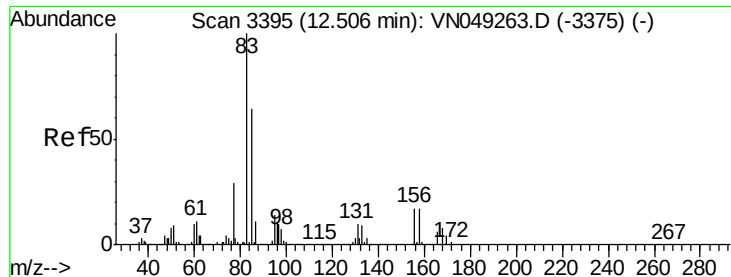
115 55.9 28.7 86.1

150 156.8 0.0 351.0



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





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.42 min Scan# 3369

Delta R.T. -0.08 min

Lab File: VN049503.D

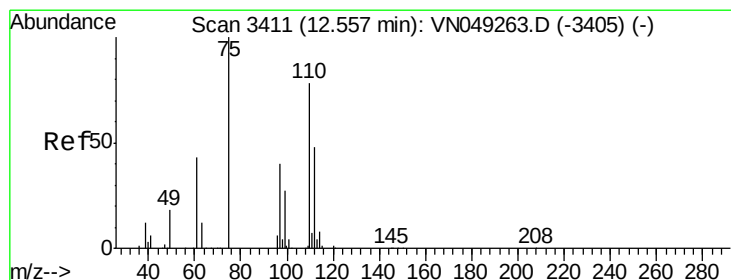
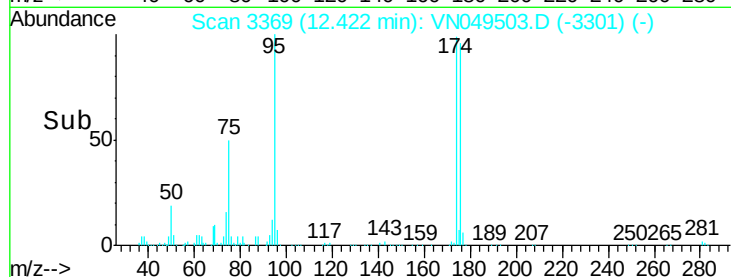
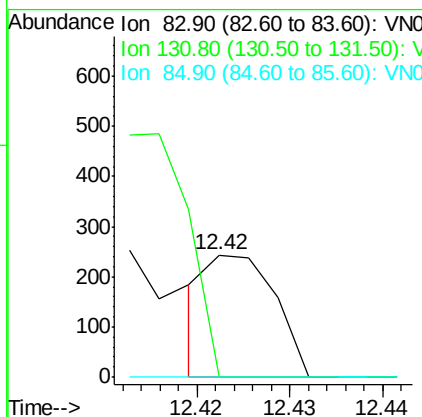
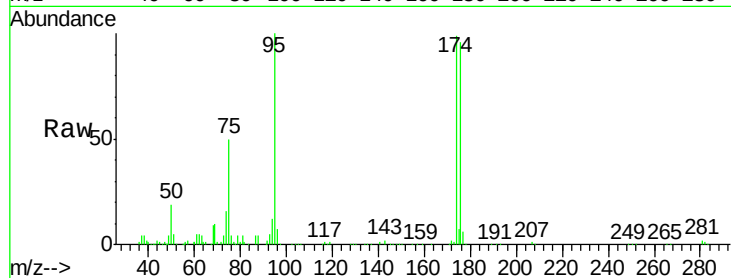
Acq: 22 Jun 2018 20:15

Instrument :

MSVOA_N

ClientSampled :

Tot Ion:	83	Resp:	123
Ion	Ratio	Lower	Upper
83	100		
131	607.3	5.0	15.0#
85	0.0	32.0	96.0#



#76

1,2,3-Trichloropropane

Concen: 42.38 ug/l

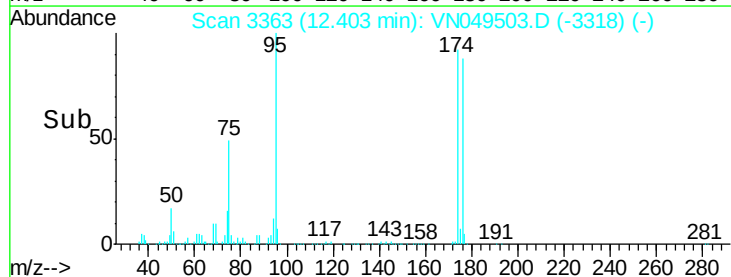
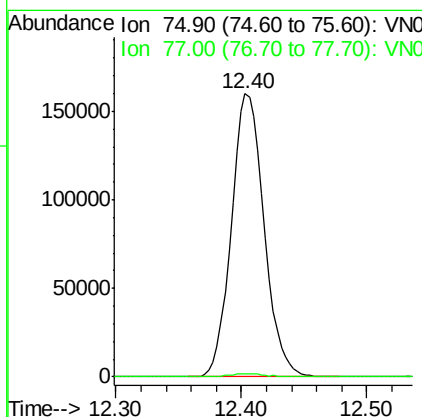
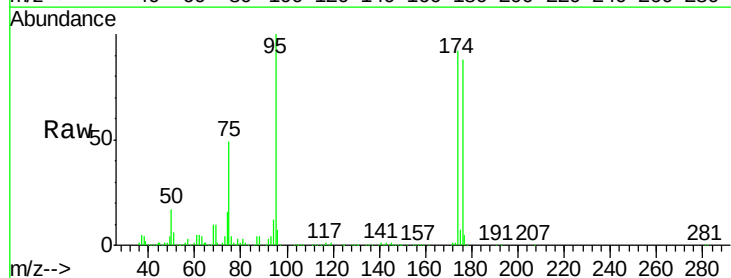
RT: 12.40 min Scan# 3363

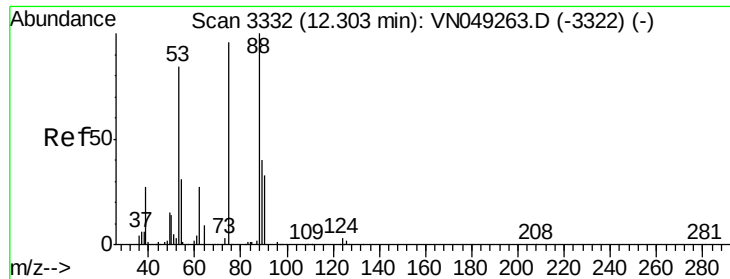
Delta R.T. -0.15 min

Lab File: VN049503.D

Acq: 22 Jun 2018 20:15

Tgt Ion:	75	Resp:	288793
Ion	Ratio	Lower	Upper
75	100		
77	1.3	0.0	0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 133.95 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049503.D

Acq: 22 Jun 2018 20:15

Instrument :

MSVOA_N

ClientSampleId :

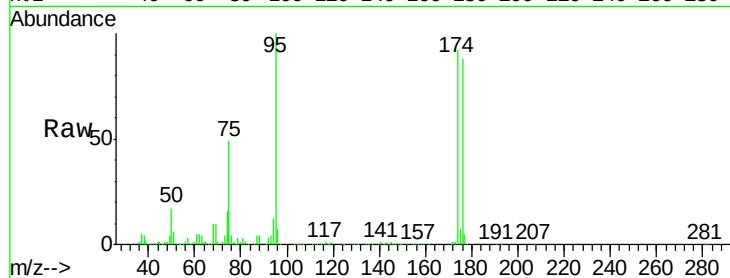
Tot Ion: 75 Resp: 288793

Ion Ratio Lower Upper

75 100

53 0.2 82.7 124.1#

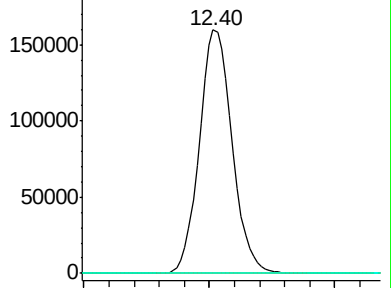
89 0.0 36.5 54.7#



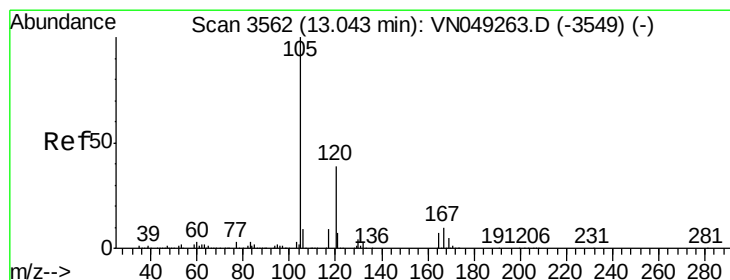
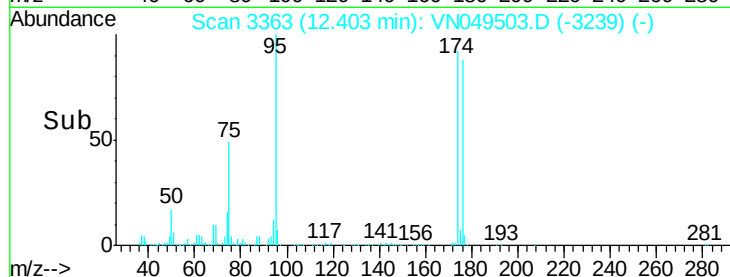
Abundance Ion 74.90 (74.60 to 75.60): VN049503.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN049503.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN049503.D (-3363) (-)



Time--> 12.30 12.40 12.50



#84

1,2,4-Trimethylbenzene

Concen: 0.34 ug/l

RT: 13.04 min Scan# 3562

Delta R.T. -0.00 min

Lab File: VN049503.D

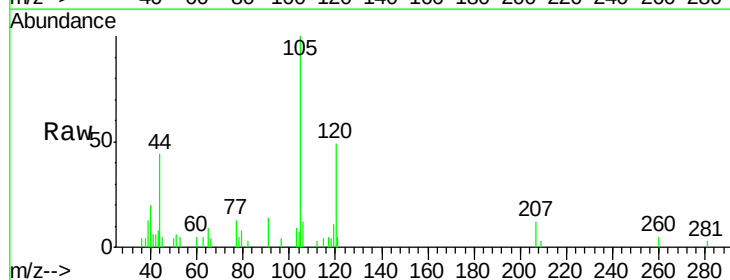
Acq: 22 Jun 2018 20:15

Tgt Ion: 105 Resp: 9403

Ion Ratio Lower Upper

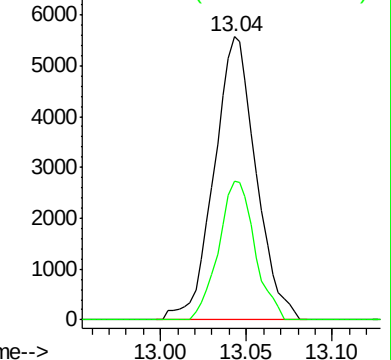
105 100

120 42.2 22.2 66.6

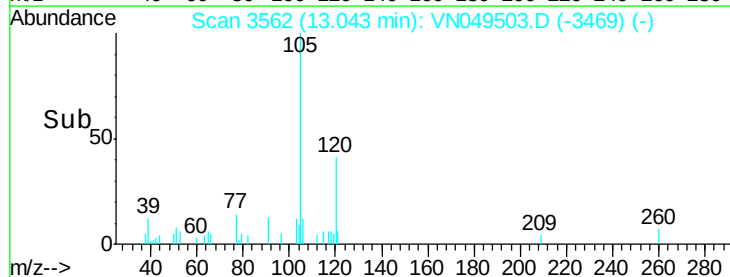


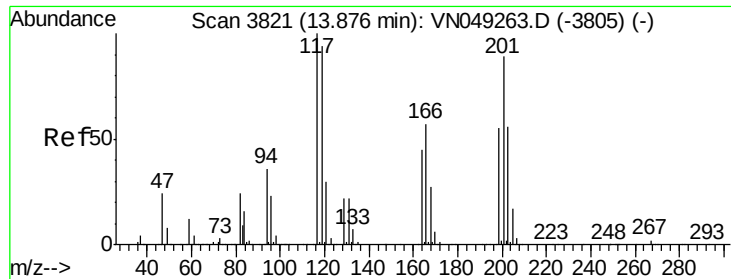
Abundance Ion 105.00 (104.70 to 105.70): VN049503.D (-3562) (-)

Ion 120.00 (119.70 to 120.70): VN049503.D (-3562) (-)



Time--> 13.00 13.05 13.10

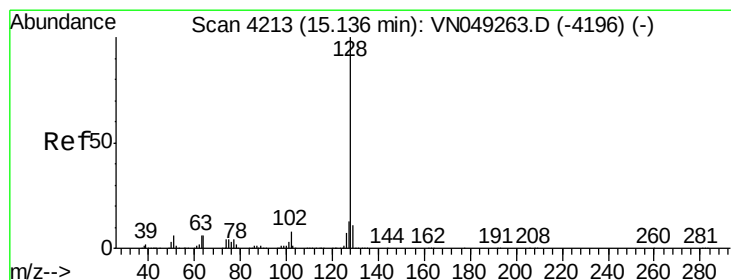
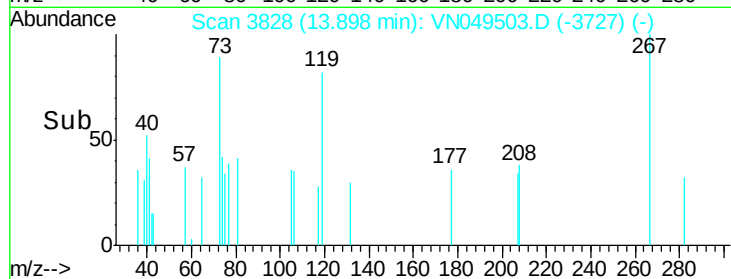
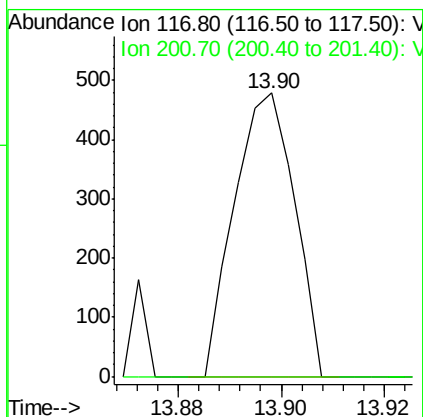
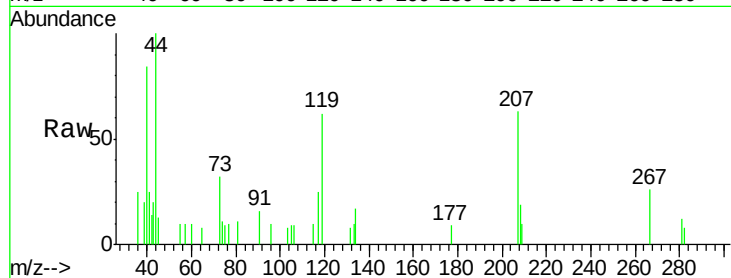




#90
Hexachloroethane
Concen: Below Cal
RT: 13.90 min Scan# 3828
Delta R.T. 0.02 min
Lab File: VN049503.D
Acq: 22 Jun 2018 20:15

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 385
Ion Ratio Lower Upper
117 100
201 0.0 40.1 120.2#



#95
Naphthalene
Concen: 6.90 ug/l
RT: 15.14 min Scan# 4213
Delta R.T. 0.00 min
Lab File: VN049503.D
Acq: 22 Jun 2018 20:15

Tgt Ion:128 Resp: 54039
Ion Ratio Lower Upper
128 100
127 14.2 10.6 16.0
129 10.1 8.5 12.7

