

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061618\
 Data File : VN049326.D
 Acq On : 16 Jun 2018 22:29
 Operator : MD\SY
 Sample : J3562-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 18 03:24:07 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	1697971	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2660915	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2249062	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	727282	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	1099269	48.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.62%	
35) Dibromofluoromethane	7.59	113	986785	45.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.68%	
50) Toluene-d8	10.09	98	3718993	45.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.74%	
62) 4-Bromofluorobenzene	12.40	95	1019873	37.63	ug/l	0.00
Spiked Amount	50.000		Recovery	=	75.26%	

Target Compounds

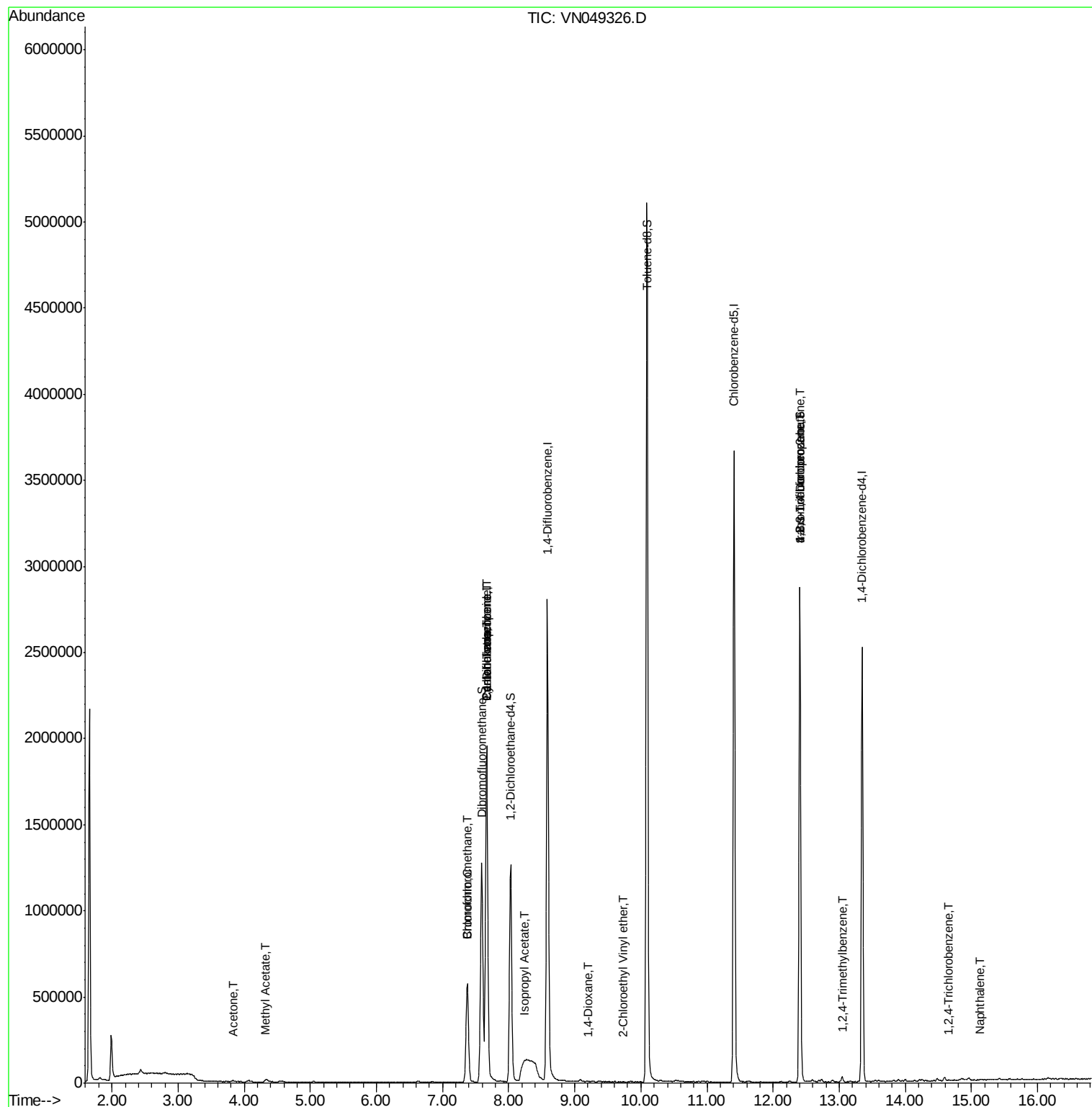
						Qvalue
16) Acetone	3.82	43	10478	1.92	ug/l	99
18) Methyl Acetate	4.33	43	28393	1.70	ug/l	92
28) Bromochloromethane	7.37	49	43969	2.52	ug/l #	18
30) Chloroform	7.37	83	620932	15.88	ug/l	98
31) Cyclohexane	7.67	56	32383	0.80	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	115077	3.77	ug/l #	51
38) Carbon Tetrachloride	7.67	117	153669	4.87	ug/l #	17
43) Isopropyl Acetate	8.24	43	148867	4.70	ug/l #	64
49) 1,4-Dioxane	9.21	88	246	1.19	ug/l #	28
58) 2-Chloroethyl Vinyl ether	9.72	63	63	14.33	ug/l #	51
75) 1,1,2,2-Tetrachloroethane	12.48	83	64	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	493555	39.77	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	493555	125.70	ug/l #	9
84) 1,2,4-Trimethylbenzene	13.04	105	16620	0.33	ug/l	95
90) Hexachloroethane	13.89	117	657	Below Cal	#	9
93) 1,2,4-Trichlorobenzene	14.64	180	30	4.74	ug/l #	13
95) Naphthalene	15.13	128	4209	2.29	ug/l #	83

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.00 min

Lab File: VN049326.D

Acq: 16 Jun 2018 22:29

Instrument :

MSVOA_N

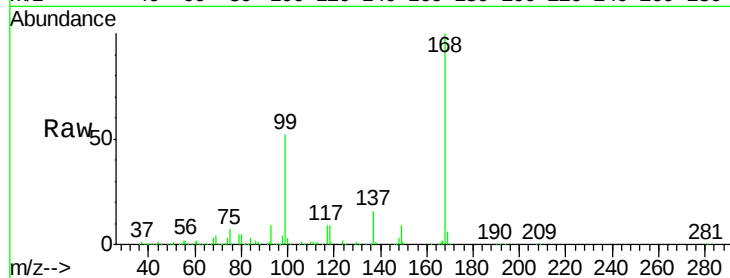
ClientSampleId :

Tot Ion:168 Resp: 1697971

Ion Ratio Lower Upper

168 100

99 52.1 45.8 68.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

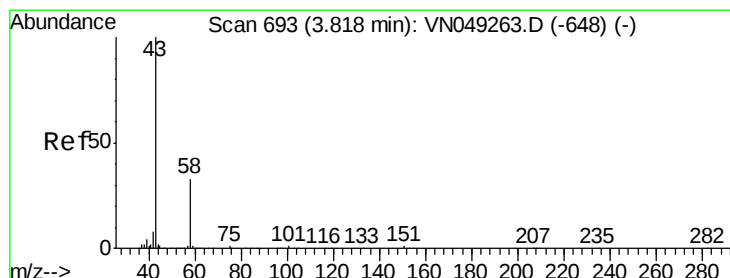
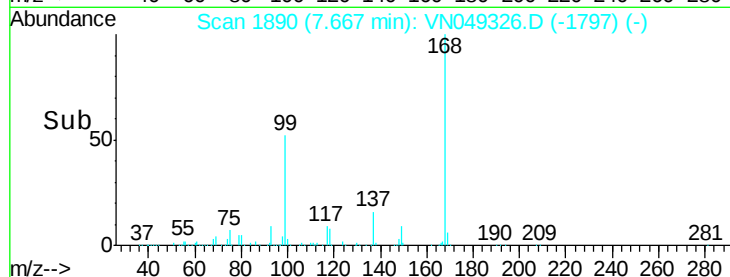
600000

400000

200000

0

Time-->



#16

Acetone

Concen: 1.92 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN049326.D

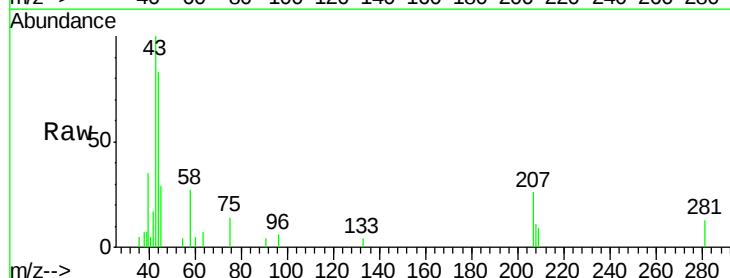
Acq: 16 Jun 2018 22:29

Tgt Ion: 43 Resp: 10478

Ion Ratio Lower Upper

43 100

58 28.5 22.4 33.6



Abundance Ion 43.00 (42.70 to 43.70): VN

Ion 58.00 (57.70 to 58.70): VN

3.82

4000

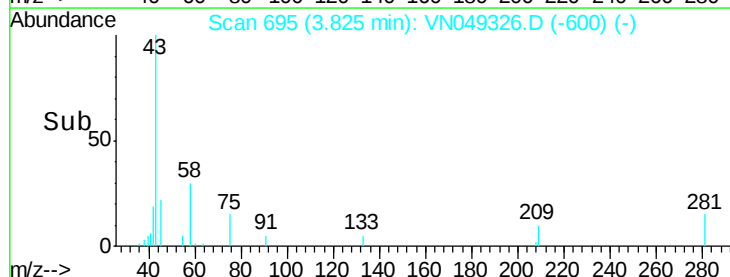
3000

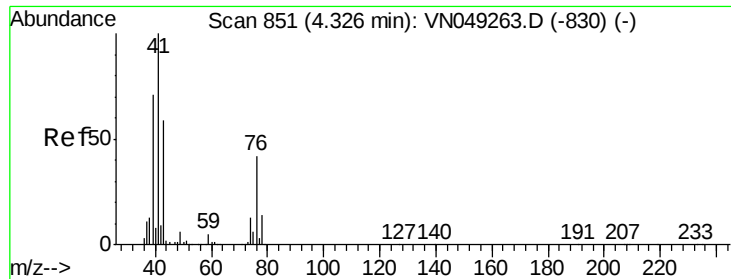
2000

1000

0

Time-->

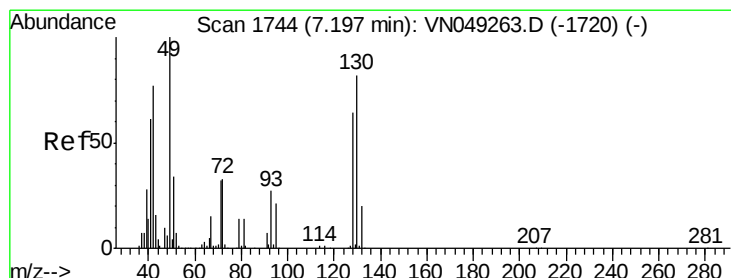
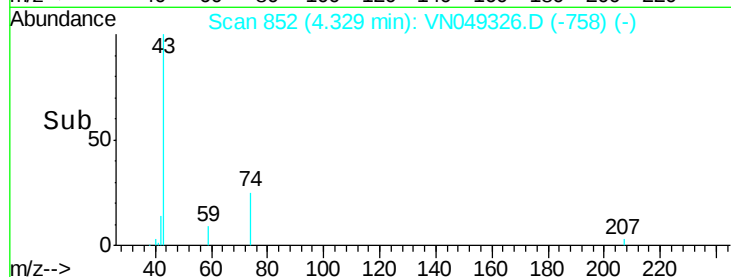
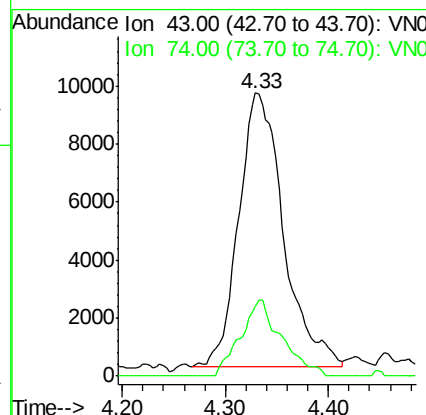
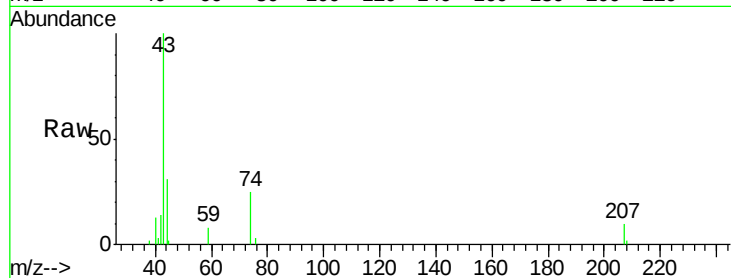




#18
Methvl Acetate
Concen: 1.70 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN049326.D
Acq: 16 Jun 2018 22:29

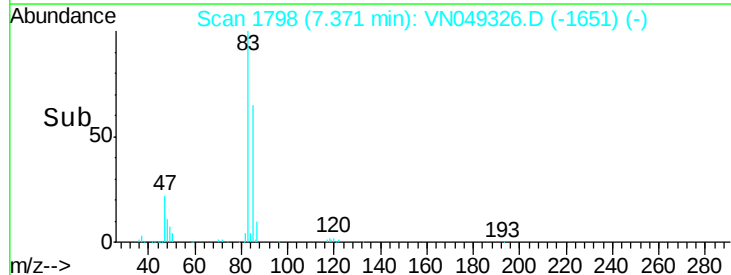
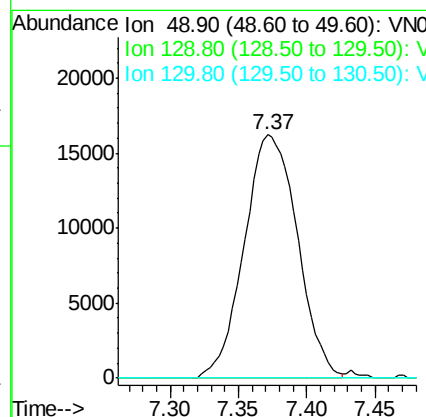
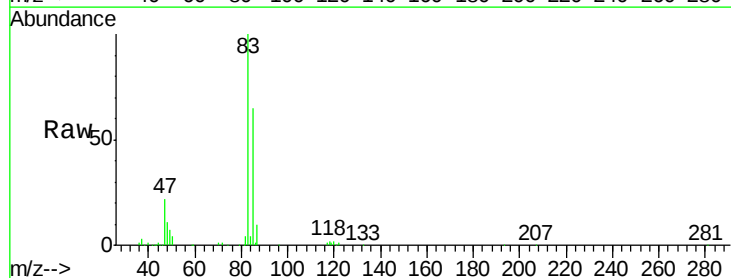
Instrument :
MSVOA_N
ClientSampled :

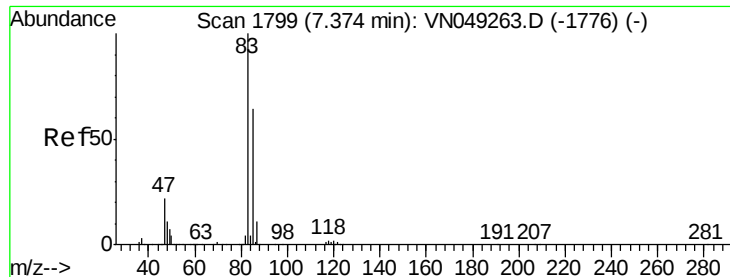
Tot Ion: 43 Resp: 28393
Ion Ratio Lower Upper
43 100
74 25.5 17.4 26.0



#28
Bromochloromethane
Concen: 2.52 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. 0.17 min
Lab File: VN049326.D
Acq: 16 Jun 2018 22:29

Tgt Ion: 49 Resp: 43969
Ion Ratio Lower Upper
49 100
129 0.0 0.0 3.8
130 0.0 54.9 82.3#

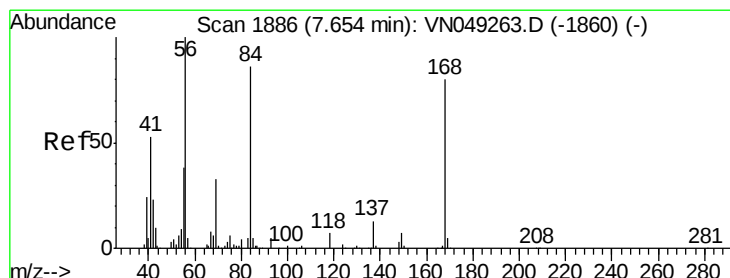
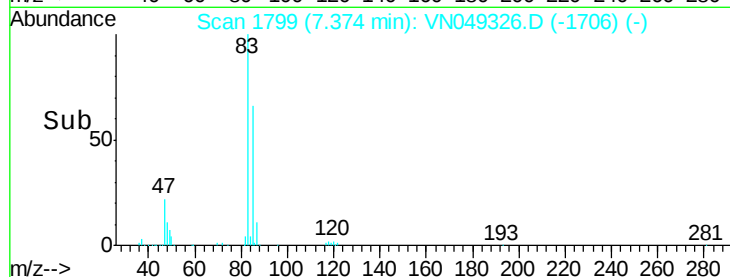
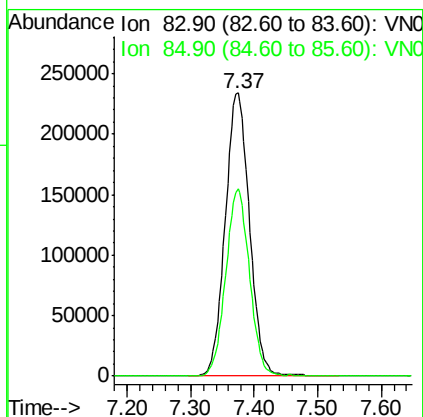
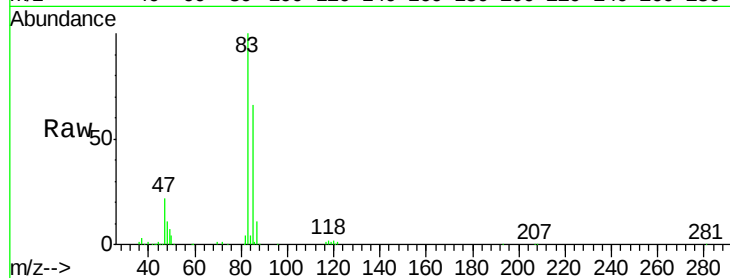




#30
Chloroform
Concen: 15.88 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN049326.D
Acq: 16 Jun 2018 22:29

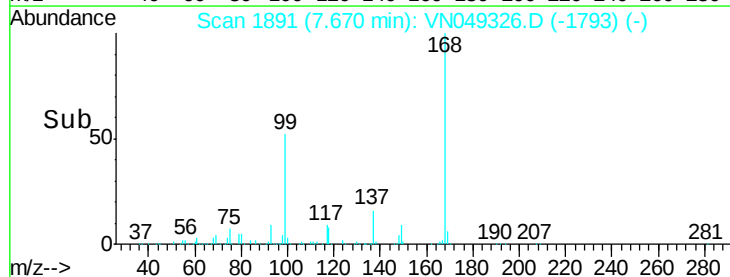
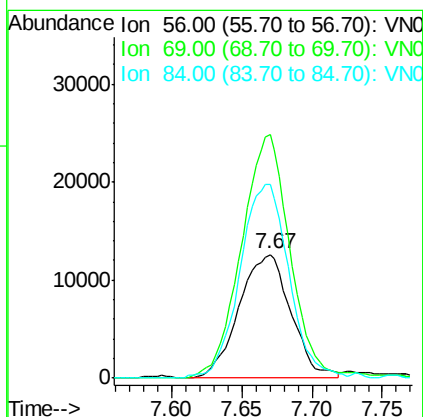
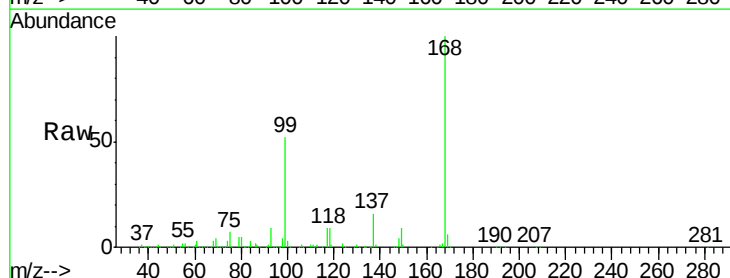
Instrument :
MSVOA_N
ClientSampled :

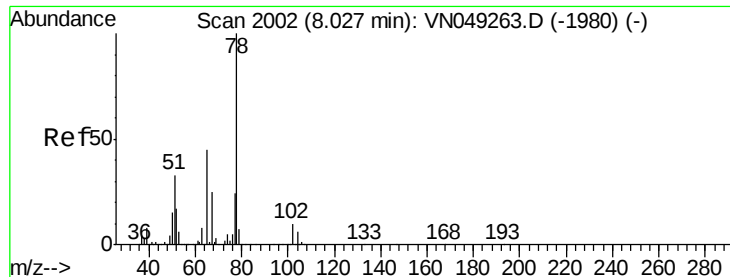
Tot Ion: 83 Resp: 620932
Ion Ratio Lower Upper
83 100
85 66.2 51.7 77.5



#31
Cyclohexane
Concen: 0.80 ug/l
RT: 7.67 min Scan# 1891
Delta R.T. 0.02 min
Lab File: VN049326.D
Acq: 16 Jun 2018 22:29

Tgt Ion: 56 Resp: 32383
Ion Ratio Lower Upper
56 100
69 197.0 25.0 37.4#
84 154.6 64.6 96.8#





#33

1,2-Dichloroethane-d4

Concen: 48.81 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049326.D

Acq: 16 Jun 2018 22:29

Instrument :

MSVOA_N

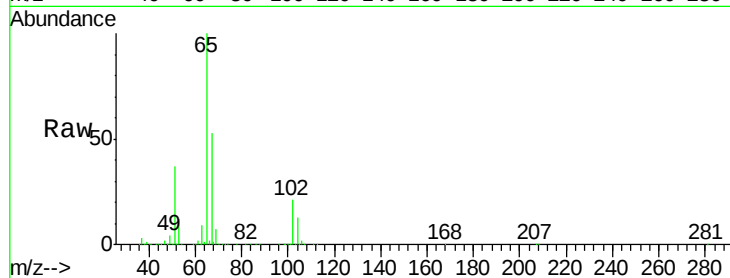
ClientSampleId :

Tot Ion: 65 Resp: 1099269

Ion Ratio Lower Upper

65 100

67 53.1 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN049326.D (-1980) (-)

Ion 66.90 (66.60 to 67.60): VN049326.D (-1980) (-)

8.03

500000

400000

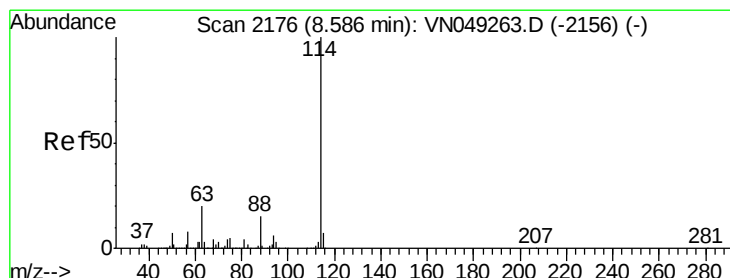
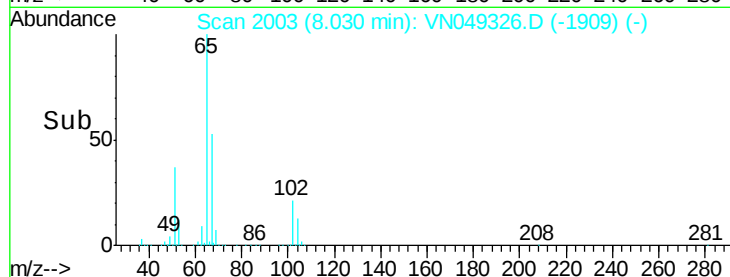
300000

200000

100000

0

Time--> 7.90 8.00 8.10



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. 0.00 min

Lab File: VN049326.D

Acq: 16 Jun 2018 22:29

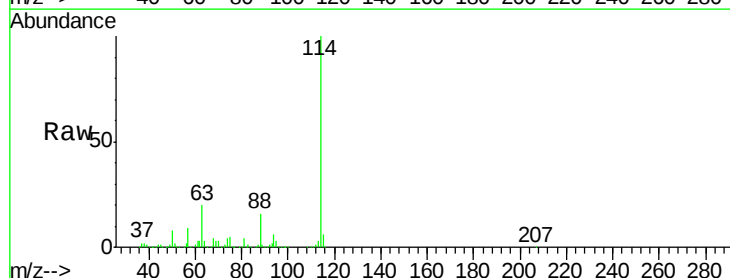
Tgt Ion: 114 Resp: 2660915

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): VN049326.D (-2156) (-)

Ion 63.00 (62.70 to 63.70): VN049326.D (-2156) (-)

Ion 87.90 (87.60 to 88.60): VN049326.D (-2156) (-)

8.59

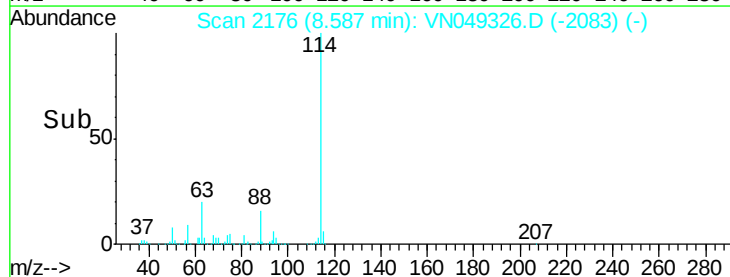
1500000

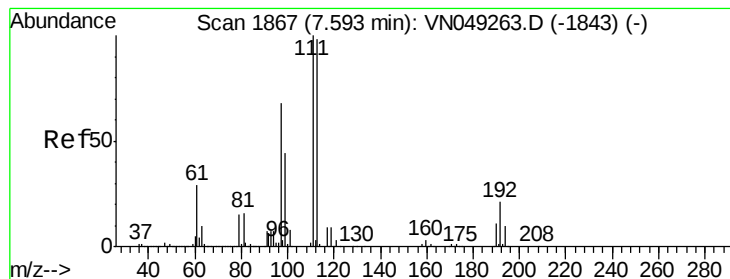
1000000

500000

0

Time--> 8.50 8.60 8.70





#35

Dibromofluoromethane

Concen: 45.84 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049326.D

Acq: 16 Jun 2018 22:29

Instrument :

MSVOA_N

ClientSampleId :

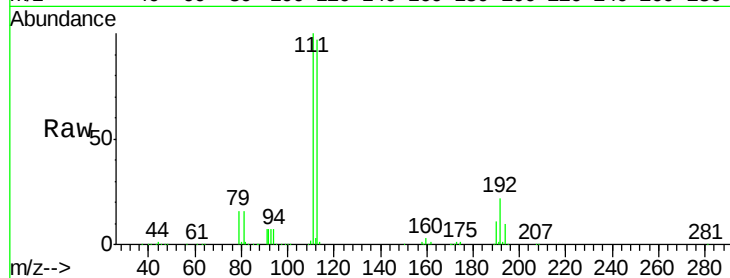
Tot Ion:113 Resp: 986785

Ion Ratio Lower Upper

113 100

111 103.4 82.4 123.6

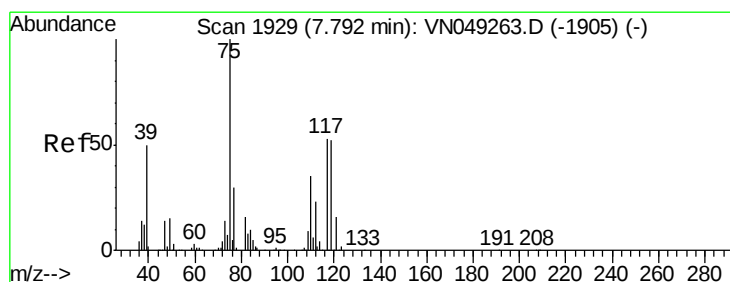
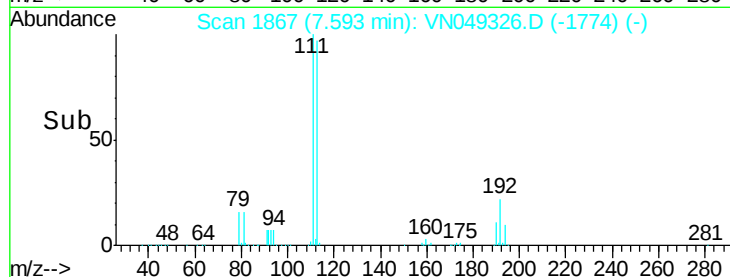
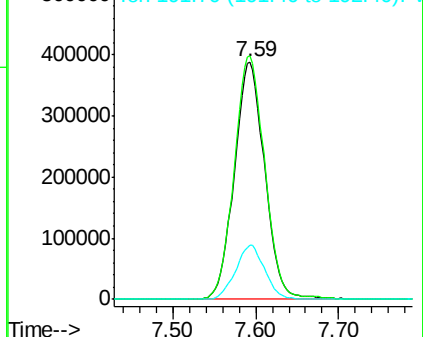
192 22.0 15.0 22.6



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: 3.77 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049326.D

Acq: 16 Jun 2018 22:29

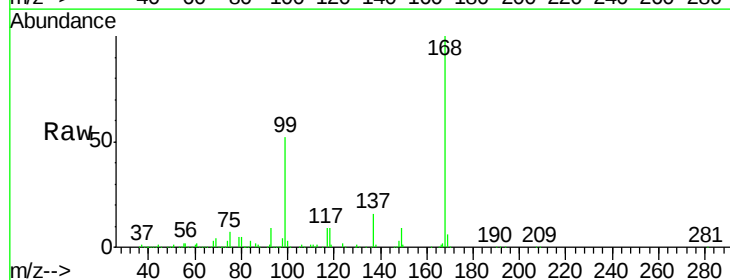
Tgt Ion: 75 Resp: 115077

Ion Ratio Lower Upper

75 100

110 9.1 17.0 50.9#

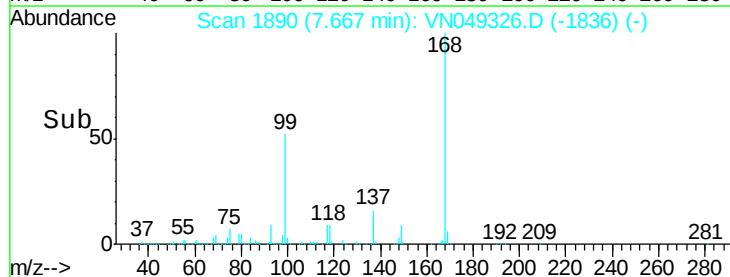
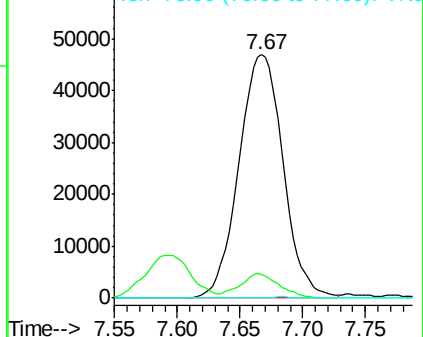
77 0.2 24.4 36.6#

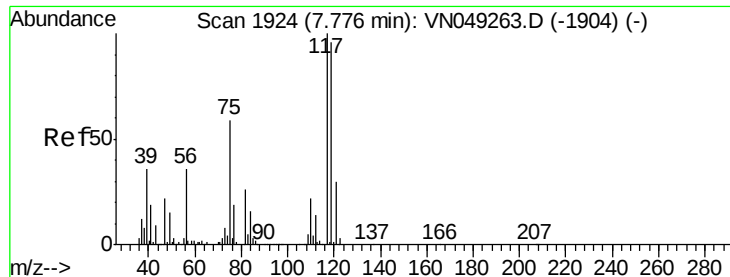


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 4.87 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049326.D

Acq: 16 Jun 2018 22:29

Instrument :

MSVOA_N

ClientSampleId :

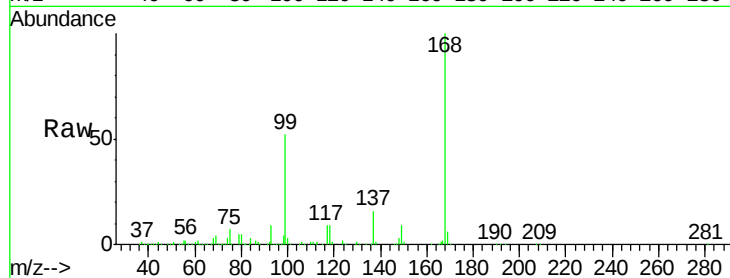
Tot Ion:117 Resp: 153669

Ion Ratio Lower Upper

117 100

119 5.6 75.6 113.4#

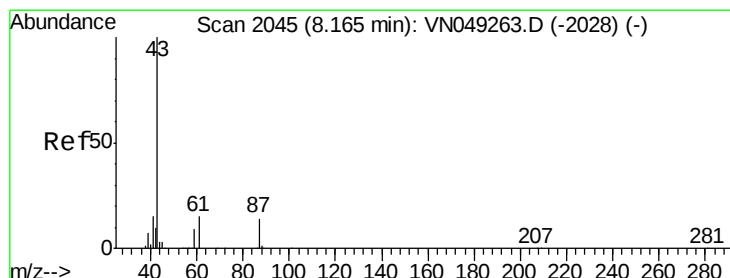
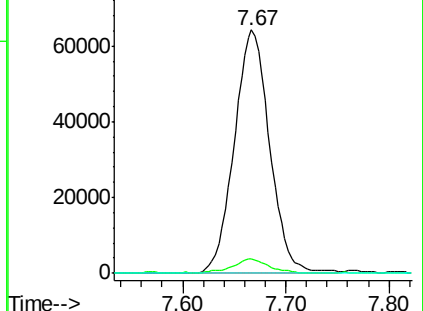
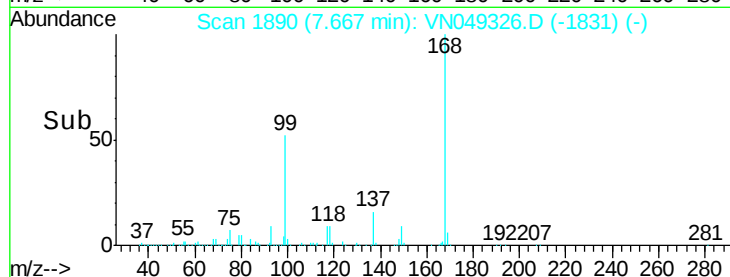
121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 4.70 ug/l

RT: 8.24 min Scan# 2069

Delta R.T. 0.08 min

Lab File: VN049326.D

Acq: 16 Jun 2018 22:29

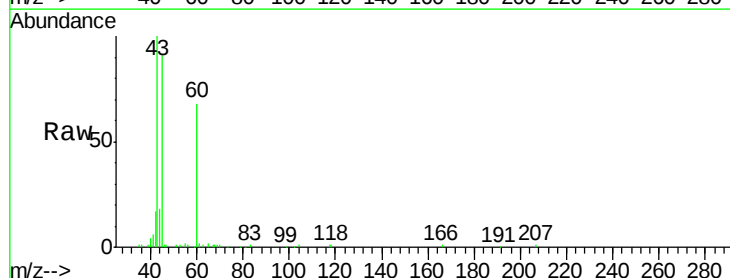
Tgt Ion: 43 Resp: 148867

Ion Ratio Lower Upper

43 100

61 0.0 14.2 21.4#

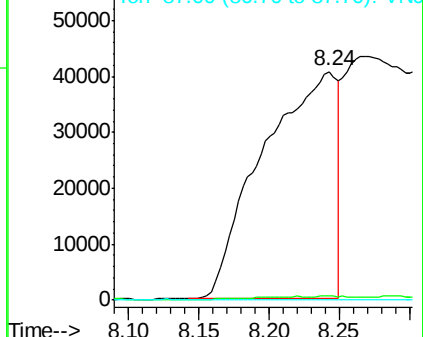
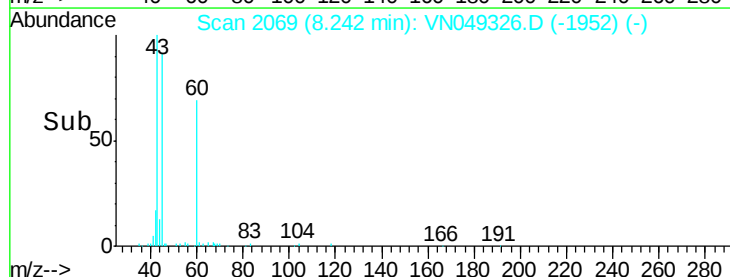
87 0.0 9.4 14.0#

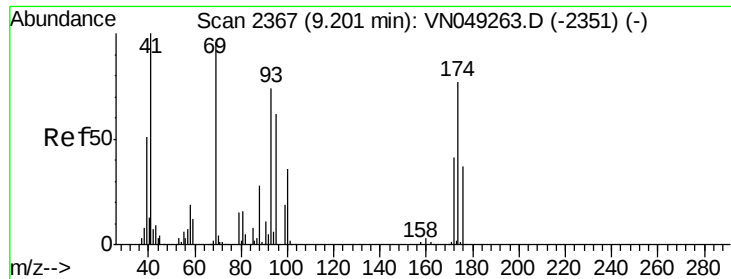


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

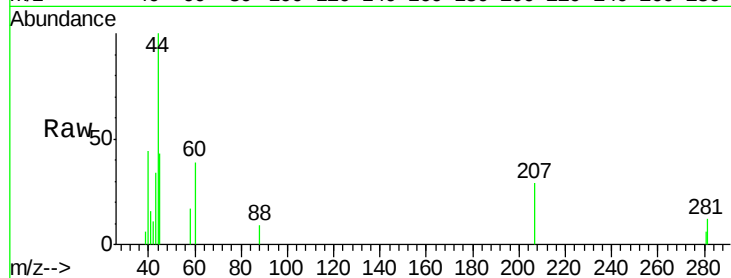




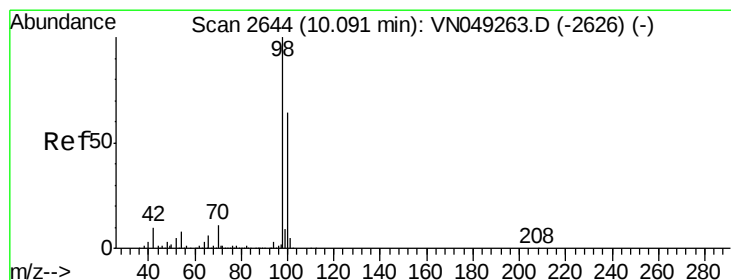
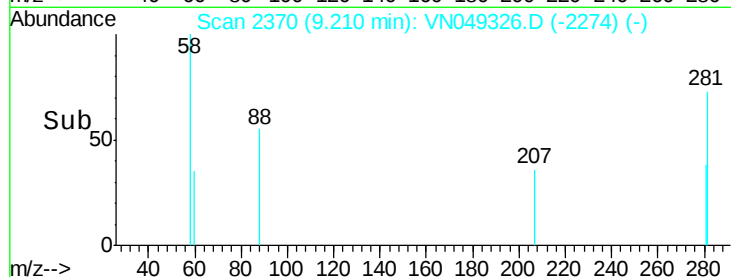
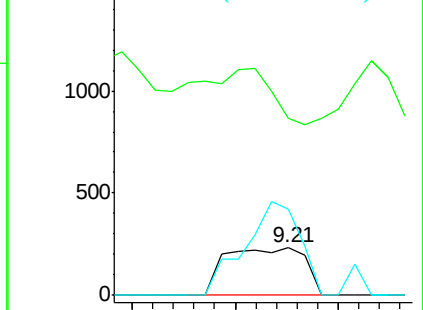
#49
1,4-Dioxane
Concen: 1.19 ug/l
RT: 9.21 min Scan# 2370
Delta R.T. 0.01 min
Lab File: VN049326.D
Acq: 16 Jun 2018 22:29

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 88 Resp: 246
Ion Ratio Lower Upper
88 100
43 0.0 30.9 46.3#
58 138.6 58.9 88.3#

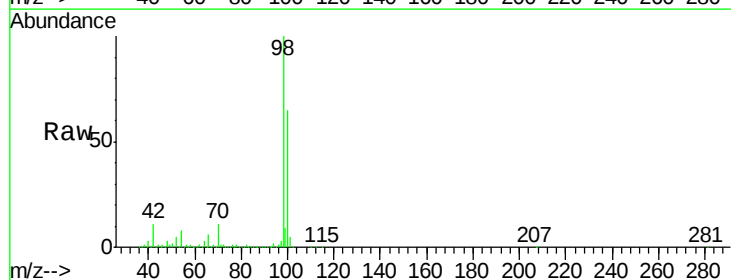


Abundance Ion 88.00 (87.70 to 88.70): VN0
Ion 43.00 (42.70 to 43.70): VN0
Ion 58.00 (57.70 to 58.70): VN0

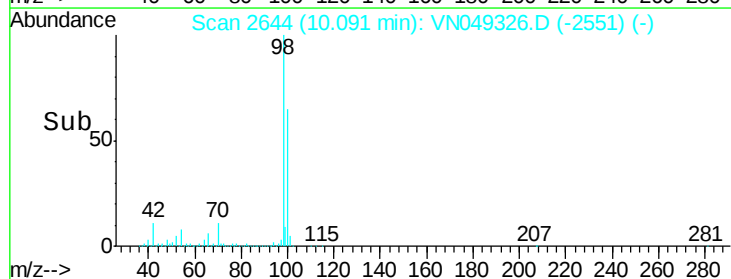
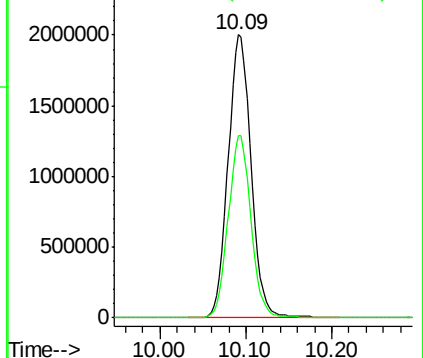


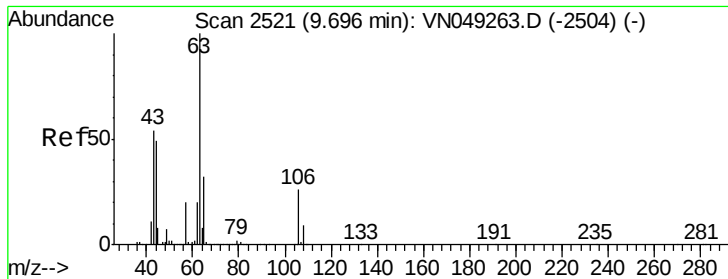
#50
Toluene-d8
Concen: 45.37 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049326.D
Acq: 16 Jun 2018 22:29

Tgt Ion: 98 Resp: 3718993
Ion Ratio Lower Upper
98 100
100 63.7 49.8 74.8



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





#58

2-Chloroethyl Vinyl ether

Concen: 14.33 ug/l

RT: 9.72 min Scan# 2529

Delta R.T. 0.03 min

Lab File: VN049326.D

Acq: 16 Jun 2018 22:29

Instrument :

MSVOA_N

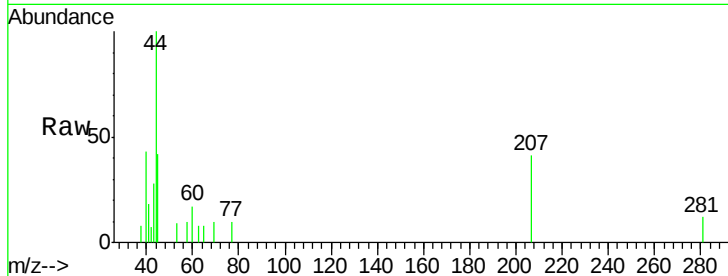
ClientSampleId :

Tot Ion: 63 Resp: 63

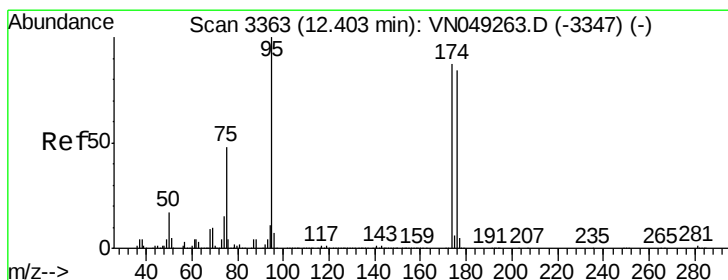
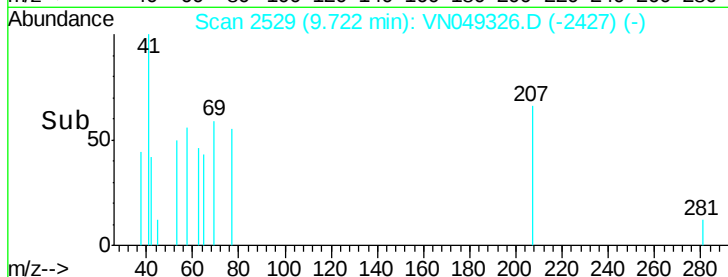
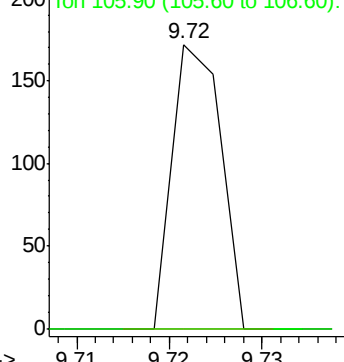
Ion Ratio Lower Upper

63 100

106 0.0 19.4 29.2#



Abundance Ion 62.90 (62.60 to 63.60): VN049326.D (-2427) (-)



#62

4-Bromofluorobenzene

Concen: 37.63 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049326.D

Acq: 16 Jun 2018 22:29

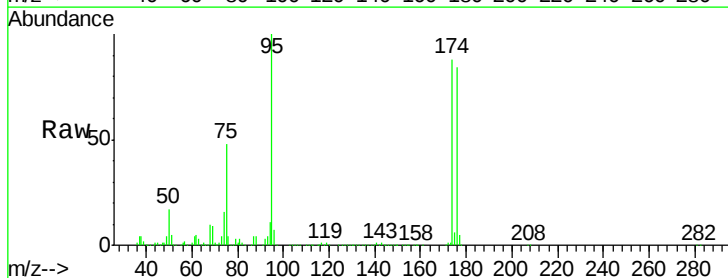
Tgt Ion: 95 Resp: 1019873

Ion Ratio Lower Upper

95 100

174 88.0 0.0 165.6

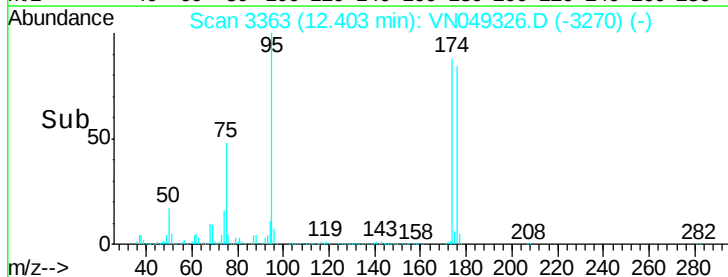
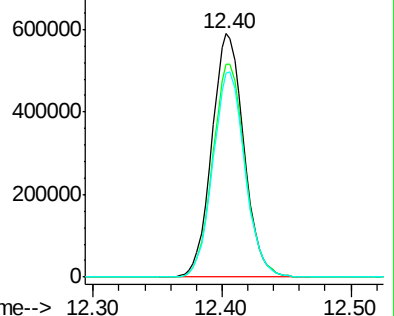
176 84.3 0.0 157.4

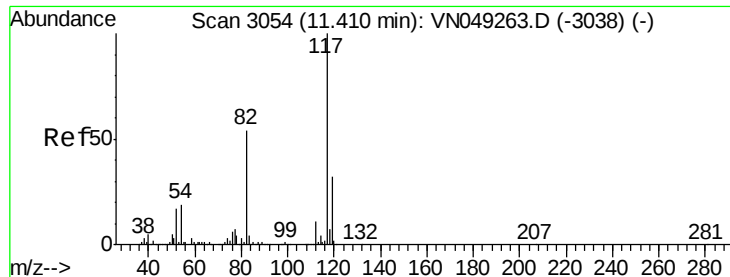


Abundance Ion 94.90 (94.60 to 95.60): VN049326.D (-3270) (-)

Ion 173.80 (173.50 to 174.50): VN049326.D (-3270) (-)

Ion 175.80 (175.50 to 176.50): VN049326.D (-3270) (-)

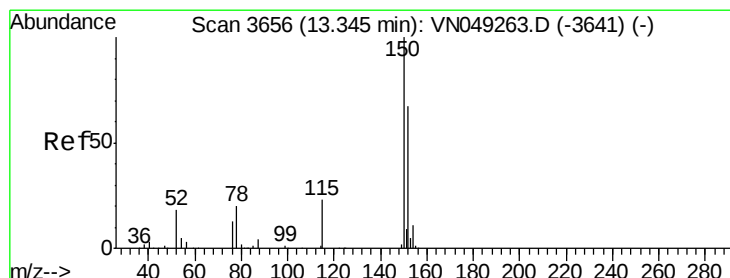
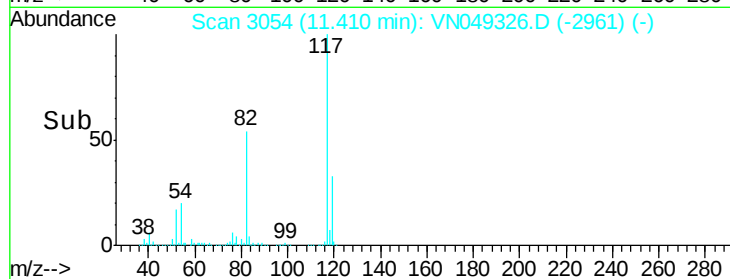
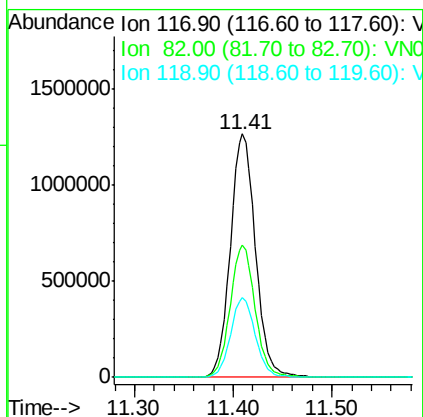
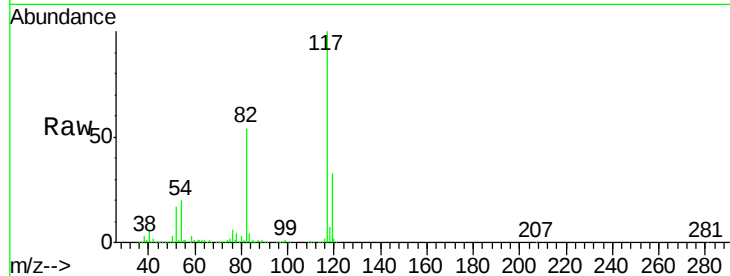




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049326.D
Acq: 16 Jun 2018 22:29

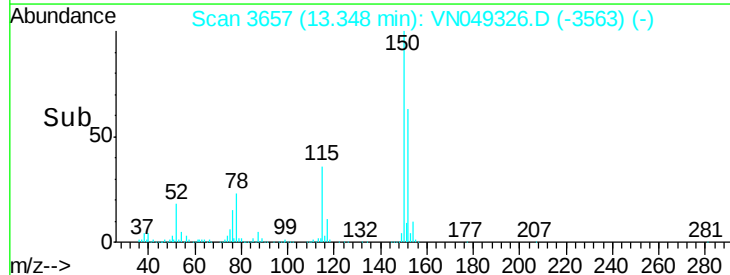
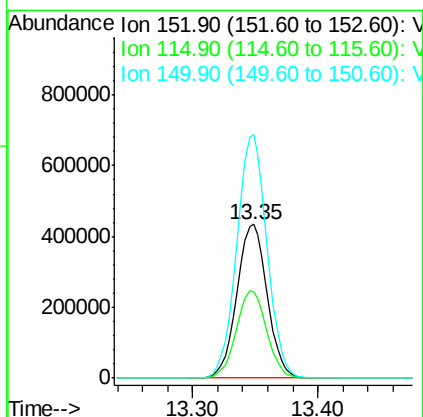
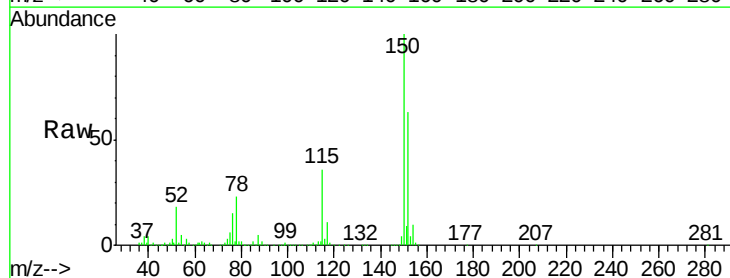
Instrument :
MSVOA_N
ClientSampleId :

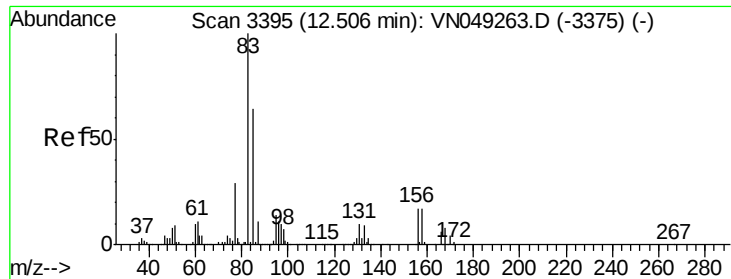
Tot Ion:117 Resp: 2249062
Ion Ratio Lower Upper
117 100
82 54.2 45.9 68.9
119 32.7 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3657
Delta R.T. 0.00 min
Lab File: VN049326.D
Acq: 16 Jun 2018 22:29

Tgt Ion:152 Resp: 727282
Ion Ratio Lower Upper
152 100
115 57.0 28.7 86.1
150 157.9 0.0 351.0





#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.48 min Scan# 3388

Delta R.T. -0.02 min

Lab File: VN049326.D

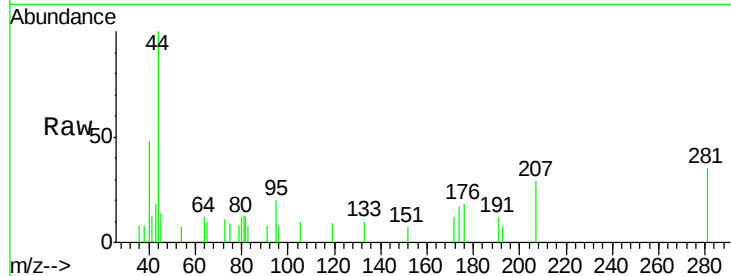
Acq: 16 Jun 2018 22:29

Instrument :

MSVOA_N

ClientSampled :

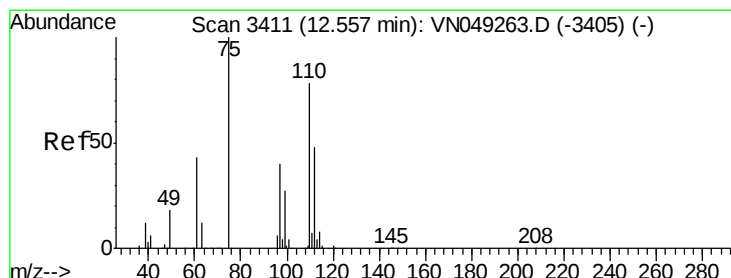
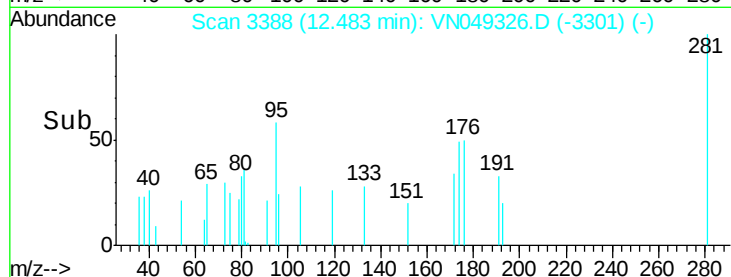
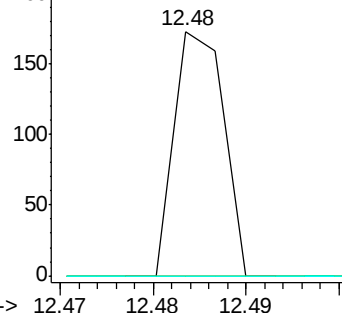
Tot Ion	83	Resp	64
Ion Ratio	100		
Lower		5.0	15.0#
Upper		32.0	96.0#



Abundance Ion 82.90 (82.60 to 83.60): VN049326.D (-3375) (-)

Ion 130.80 (130.50 to 131.50): VN049326.D (-3375) (-)

Ion 84.90 (84.60 to 85.60): VN049326.D (-3375) (-)



#76

1,2,3-Trichloropropane

Concen: 39.77 ug/l

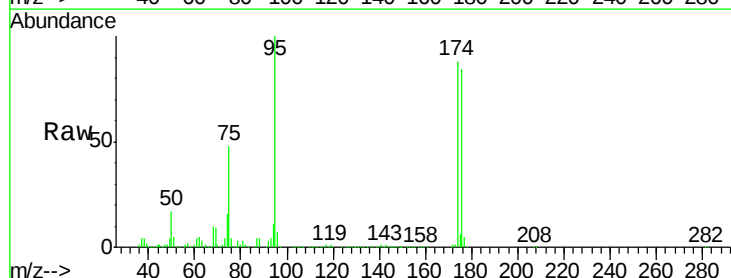
RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049326.D

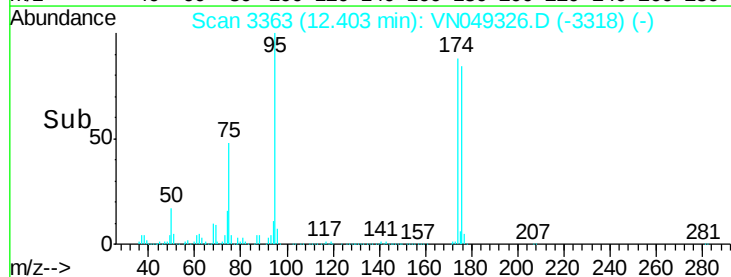
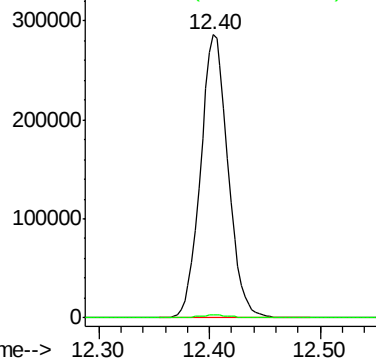
Acq: 16 Jun 2018 22:29

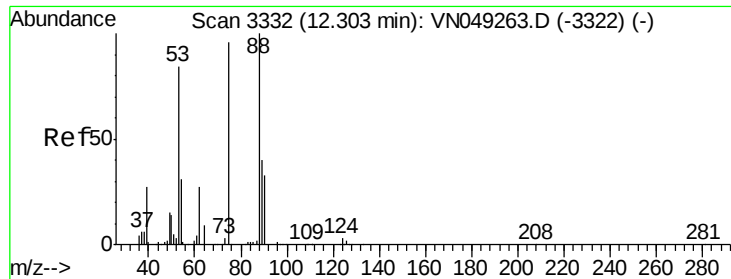
Tgt Ion	75	Resp	493555
Ion Ratio	100		
Lower		0.0	0.0#
Upper		1.2	0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN049326.D (-3318) (-)

Ion 77.00 (76.70 to 77.70): VN049326.D (-3318) (-)





#81

trans-1,4-Dichloro-2-butene

Concen: 125.70 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049326.D

Acq: 16 Jun 2018 22:29

Instrument :

MSVOA_N

ClientSampleId :

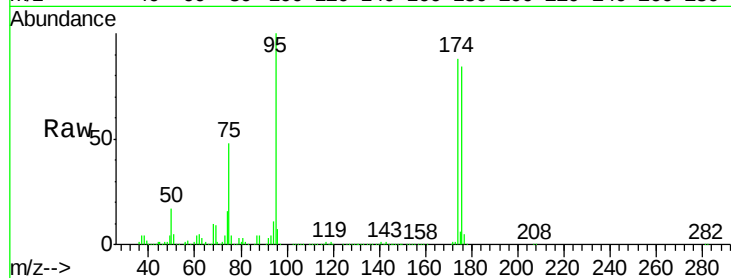
Tot Ion: 75 Resp: 493555

Ion Ratio Lower Upper

75 100

53 0.3 82.7 124.1#

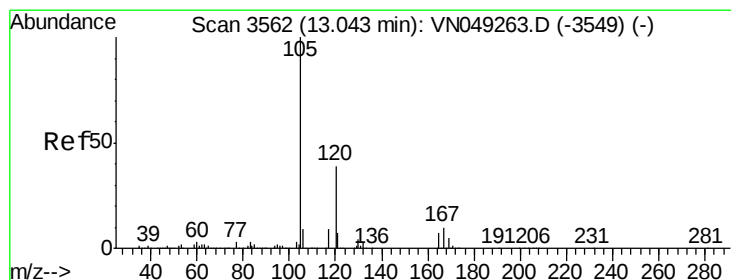
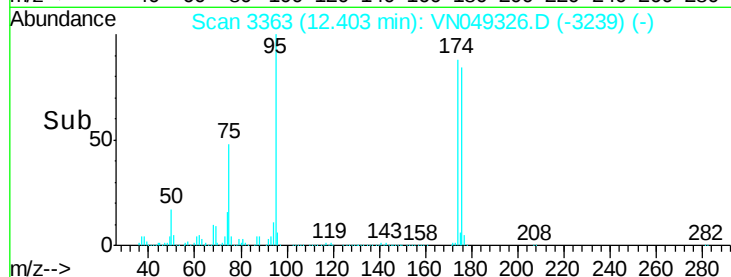
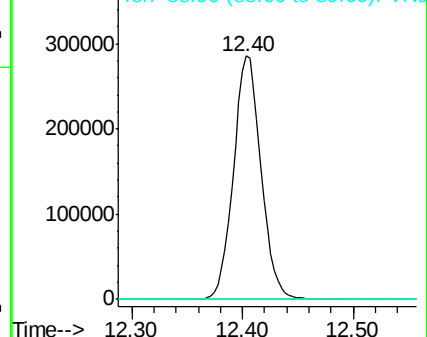
89 0.0 36.5 54.7#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#84

1,2,4-Trimethylbenzene

Concen: 0.33 ug/l

RT: 13.04 min Scan# 3562

Delta R.T. 0.00 min

Lab File: VN049326.D

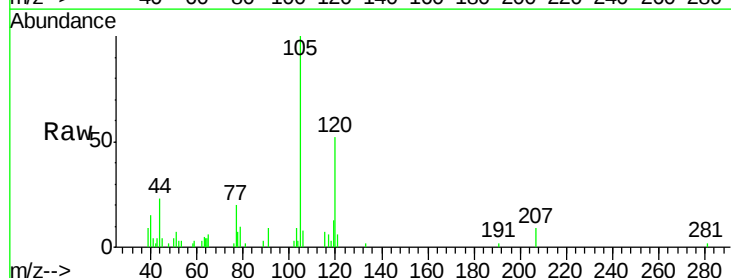
Acq: 16 Jun 2018 22:29

Tgt Ion: 105 Resp: 16620

Ion Ratio Lower Upper

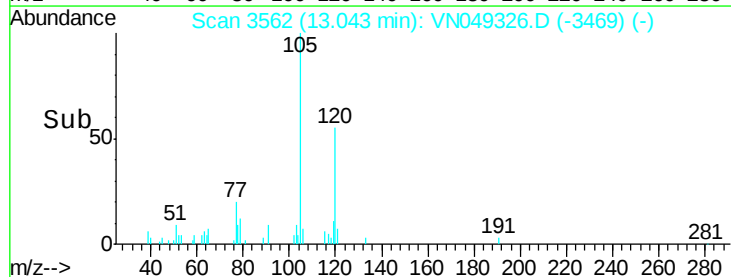
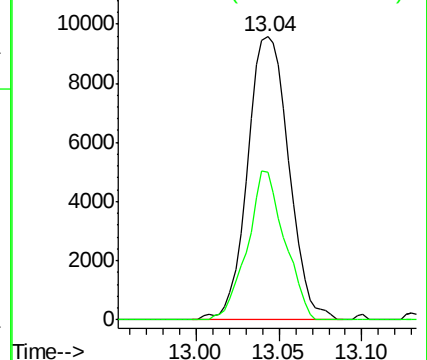
105 100

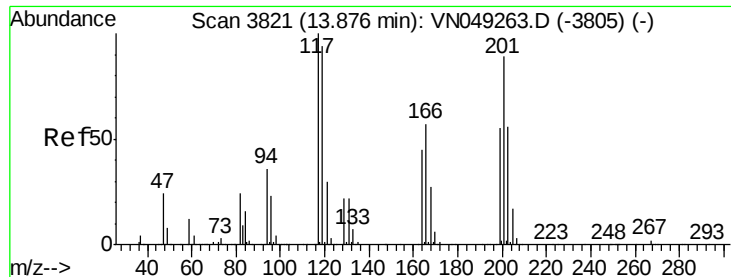
120 47.4 22.2 66.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: Below Cal

RT: 13.89 min Scan# 3826

Delta R.T. 0.02 min

Lab File: VN049326.D

Acq: 16 Jun 2018 22:29

Instrument :

MSVOA_N

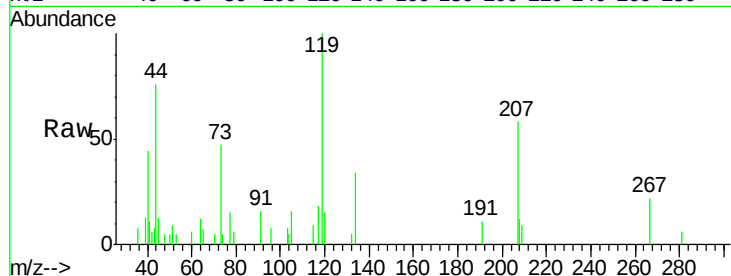
ClientSampled :

Tot Ion:117 Resp: 657

Ion Ratio Lower Upper

117 100

201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

13.89

600

500

400

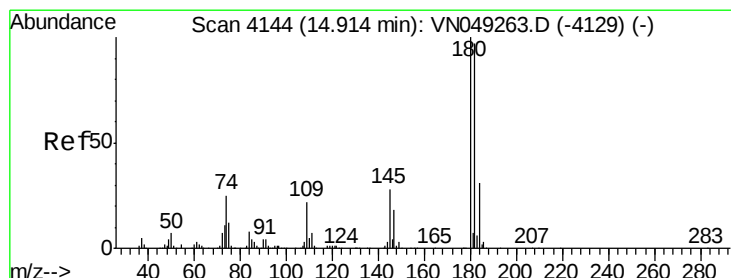
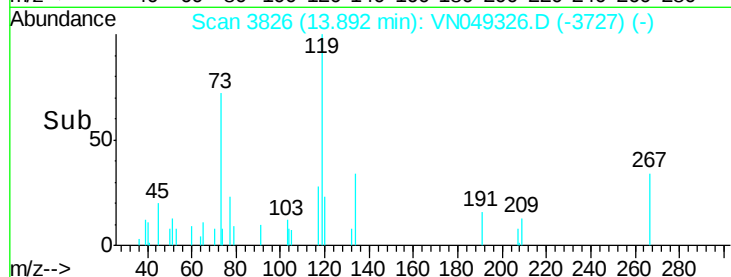
300

200

100

0

Time--> 13.86 13.88 13.90 13.92



#93

1,2,4-Trichlorobenzene

Concen: 4.74 ug/l

RT: 14.64 min Scan# 4058

Delta R.T. -0.28 min

Lab File: VN049326.D

Acq: 16 Jun 2018 22:29

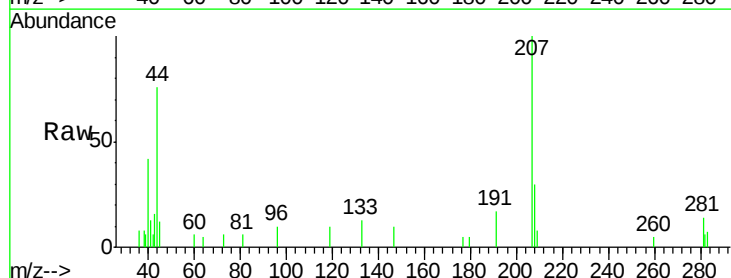
Tgt Ion:180 Resp: 30

Ion Ratio Lower Upper

180 100

182 0.0 46.9 140.8#

145 0.0 14.7 44.1#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V

200

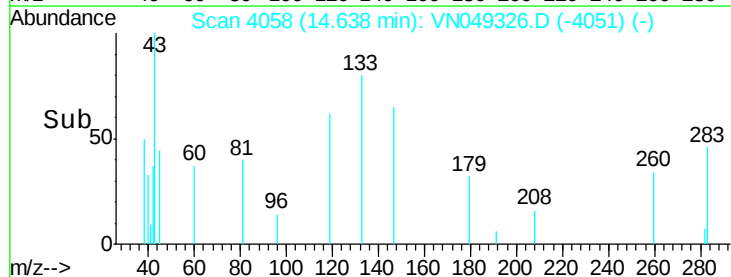
150

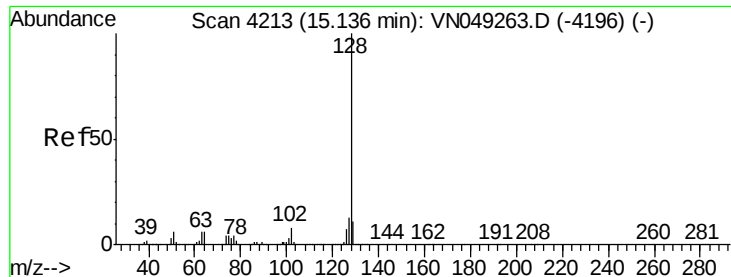
100

50

0

Time--> 14.63 14.64

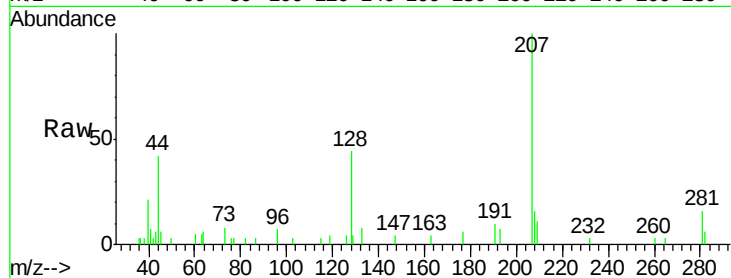




#95
Naphthalene
Concen: 2.29 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. -0.00 min
Lab File: VN049326.D
Acq: 16 Jun 2018 22:29

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:128 Resp: 4209
Ion Ratio Lower Upper
128 100
127 5.2 10.6 16.0#
129 6.0 8.5 12.7#



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

