

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061618\
 Data File : VN049323.D
 Acq On : 16 Jun 2018 21:12
 Operator : MD\SY
 Sample : J3562-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jun 18 03:23:09 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	1642012	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2569676	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2187201	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	740865	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	1059309	48.64	ug/l	0.00
Spiked Amount			Recovery	=	97.28%	
35) Dibromofluoromethane	7.59	113	958511	46.10	ug/l	0.00
Spiked Amount			Recovery	=	92.20%	
50) Toluene-d8	10.09	98	3599458	45.47	ug/l	0.00
Spiked Amount			Recovery	=	90.94%	
62) 4-Bromofluorobenzene	12.40	95	1009577	38.57	ug/l	0.00
Spiked Amount			Recovery	=	77.14%	

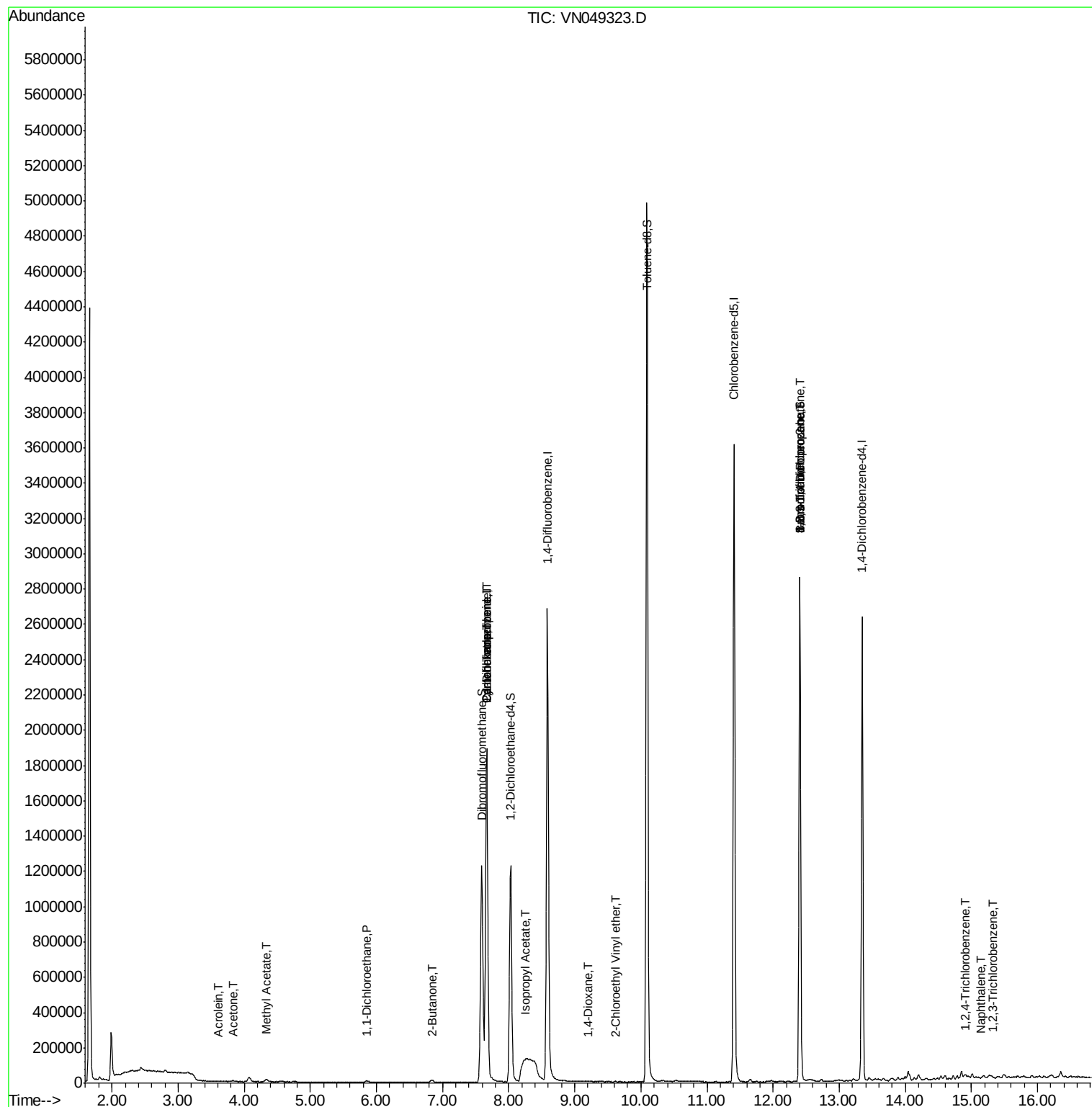
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.62	56	398	0.30	ug/l #	62
16) Acetone	3.82	43	10975	2.08	ug/l #	88
18) Methyl Acetate	4.33	43	31285	1.94	ug/l	92
24) 1,1-Dichloroethane	5.85	63	13448	0.35	ug/l	98
25) 2-Butanone	6.85	43	1449	0.20	ug/l #	50
31) Cyclohexane	7.67	56	29270	0.74	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	113428	3.85	ug/l #	50
38) Carbon Tetrachloride	7.67	117	148498	4.87	ug/l #	17
43) Isopropyl Acetate	8.24	43	137308	4.49	ug/l #	64
49) 1,4-Dioxane	9.20	88	307	1.54	ug/l #	34
58) 2-Chloroethyl Vinyl ether	9.61	63	118	14.34	ug/l #	51
71) Bromoform	12.41	173	6832	0.50	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.49	83	135	Below Cal	#	26
76) 1,2,3-Trichloropropane	12.40	75	486216	38.46	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	486216	121.56	ug/l #	8
90) Hexachloroethane	13.89	117	544	Below Cal	#	9
93) 1,2,4-Trichlorobenzene	14.91	180	61	4.75	ug/l #	1
95) Naphthalene	15.14	128	457	2.10	ug/l #	1
96) 1,2,3-Trichlorobenzene	15.34	180	96	3.46	ug/l #	1

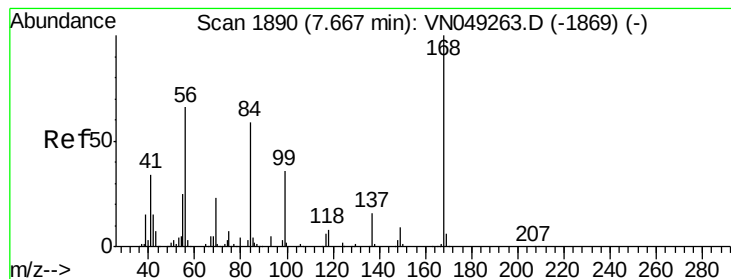
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VN049323.D

Acq: 16 Jun 2018 21:12

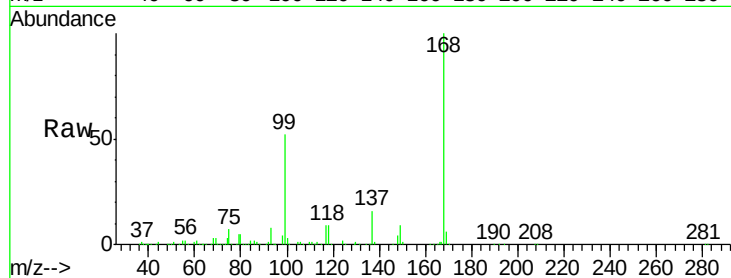
Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:168 Resp: 1642012

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

7.67

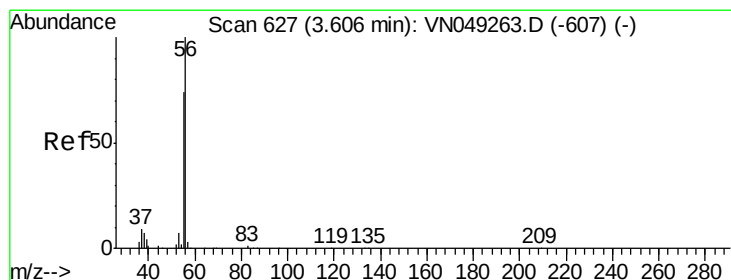
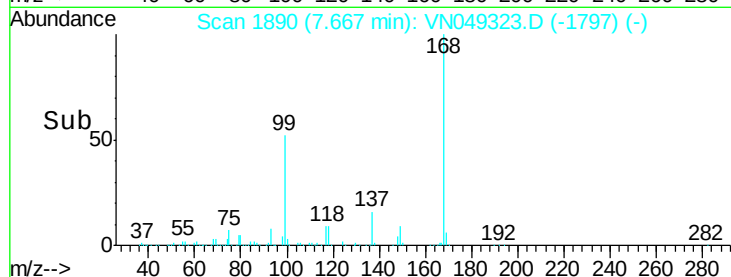
600000

400000

200000

0

Time-->



#13

Acrolein

Concen: 0.30 ug/l

RT: 3.62 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN049323.D

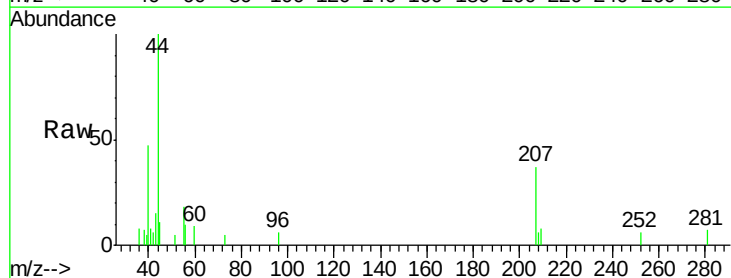
Acq: 16 Jun 2018 21:12

Tgt Ion: 56 Resp: 398

Ion Ratio Lower Upper

56 100

55 102.5 57.1 85.7#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.62

600

500

400

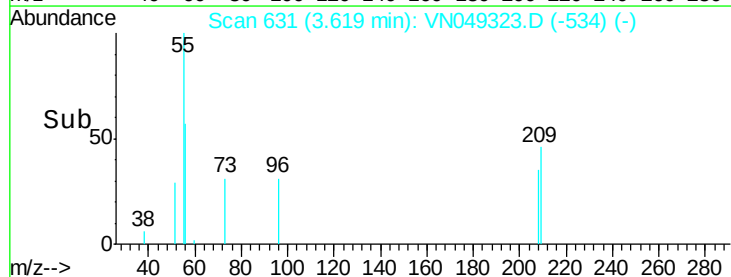
300

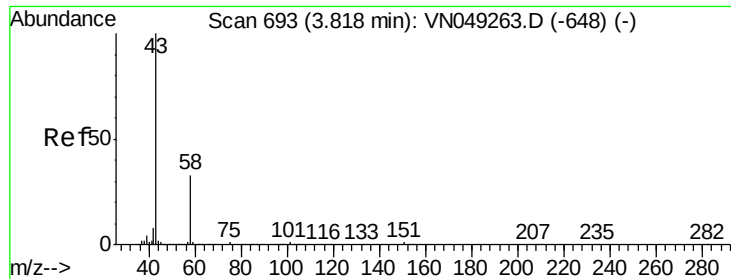
200

100

0

Time-->





#16

Acetone

Concen: 2.08 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.01 min

Lab File: VN049323.D

Acq: 16 Jun 2018 21:12

Instrument :

MSVOA_N

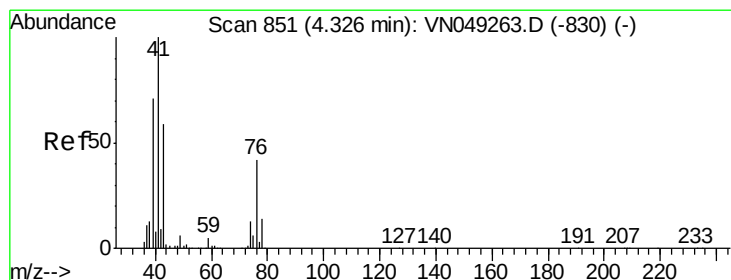
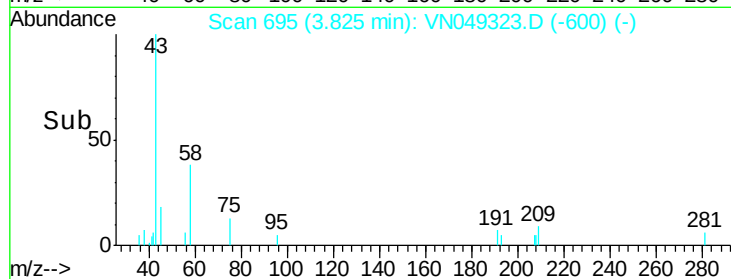
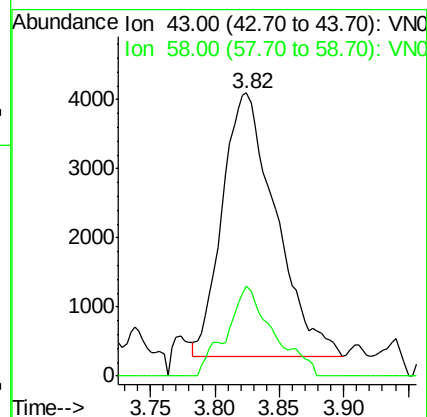
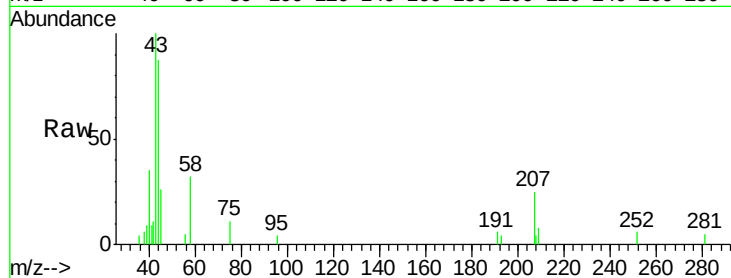
ClientSampled :

Tot Ion: 43 Resp: 10975

Ion Ratio Lower Upper

43 100

58 34.2 22.4 33.6#



#18

Methyl Acetate

Concen: 1.94 ug/l

RT: 4.33 min Scan# 852

Delta R.T. 0.00 min

Lab File: VN049323.D

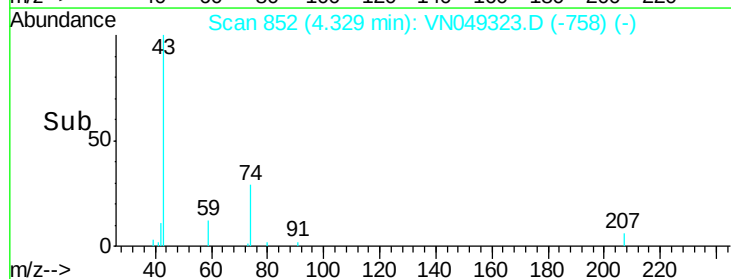
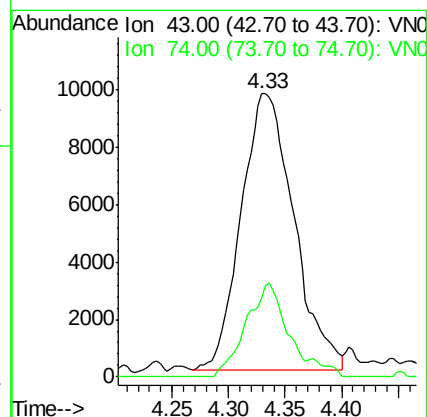
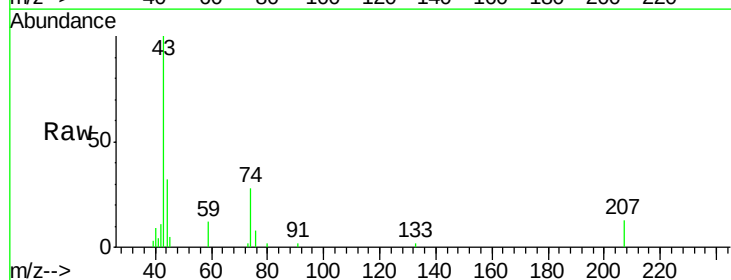
Acq: 16 Jun 2018 21:12

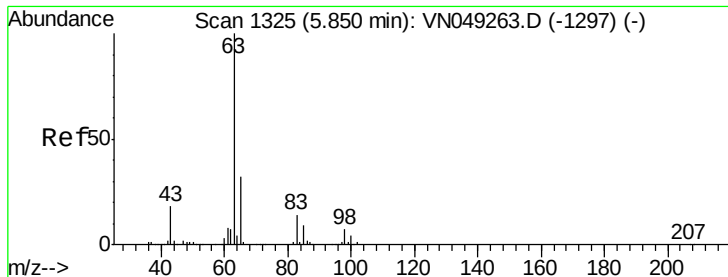
Tgt Ion: 43 Resp: 31285

Ion Ratio Lower Upper

43 100

74 25.4 17.4 26.0





#24

1,1-Dichloroethane

Concen: 0.35 ug/l

RT: 5.85 min Scan# 1325

Delta R.T. 0.00 min

Lab File: VN049323.D

Acq: 16 Jun 2018 21:12

Instrument :

MSVOA_N

ClientSampled :

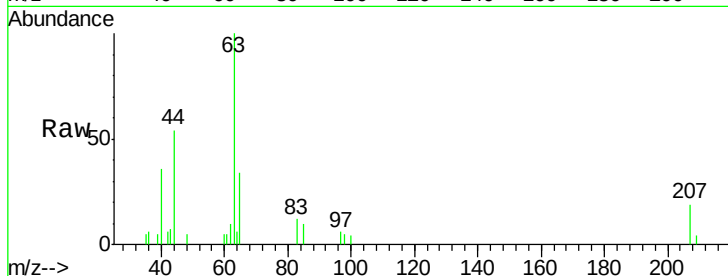
Tot Ion: 63 Resp: 13448

Ion Ratio Lower Upper

63 100

98 5.0 2.9 8.8

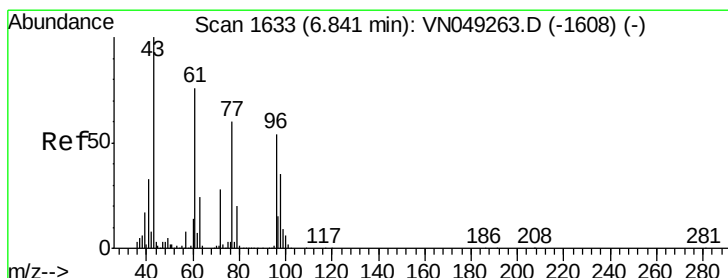
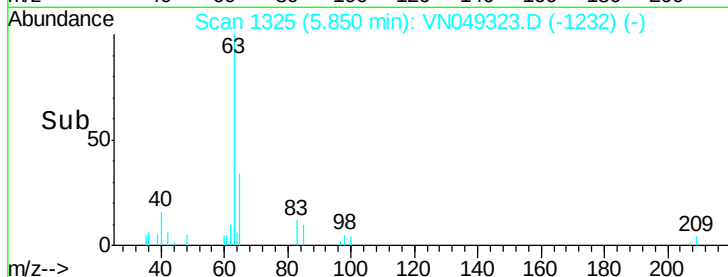
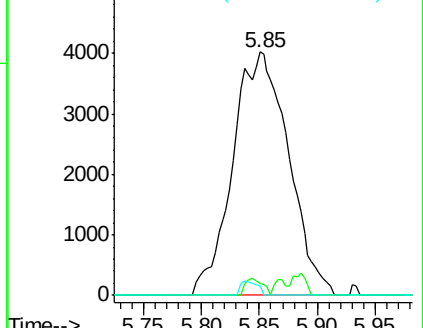
100 3.8 2.1 6.3



Abundance Ion 62.90 (62.60 to 63.60): VN049323.D (-1297) (-)

Ion 97.90 (97.60 to 98.60): VN049323.D (-1297) (-)

Ion 99.90 (99.60 to 100.60): VN049323.D (-1297) (-)



#25

2-Butanone

Concen: 0.20 ug/l

RT: 6.85 min Scan# 1637

Delta R.T. 0.01 min

Lab File: VN049323.D

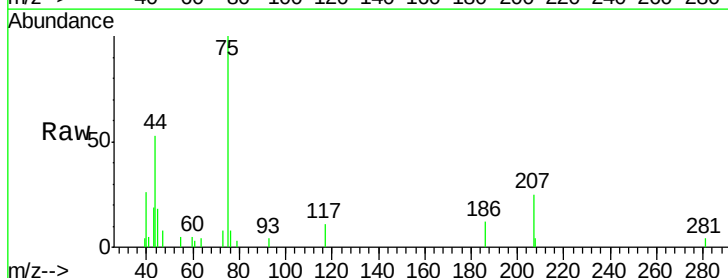
Acq: 16 Jun 2018 21:12

Tgt Ion: 43 Resp: 1449

Ion Ratio Lower Upper

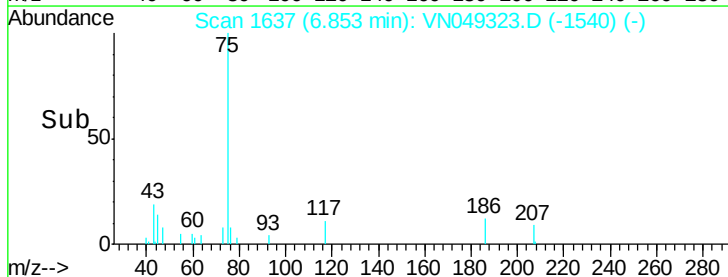
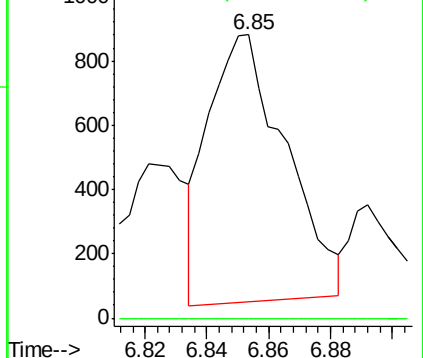
43 100

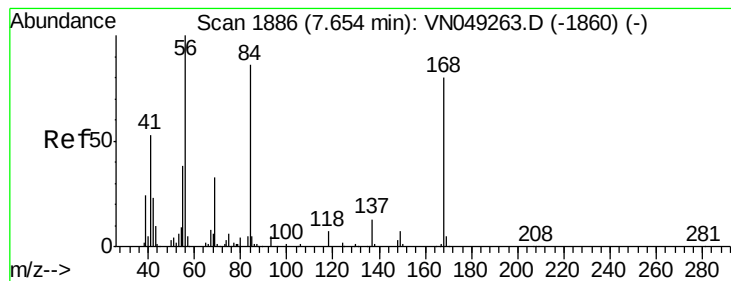
72 0.0 20.2 30.2#



Abundance Ion 43.00 (42.70 to 43.70): VN049323.D (-1608) (-)

Ion 72.00 (71.70 to 72.70): VN049323.D (-1608) (-)





#31

Cyclohexane

Concen: 0.74 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.02 min

Lab File: VN049323.D

Acq: 16 Jun 2018 21:12

Instrument :

MSVOA_N

ClientSampled :

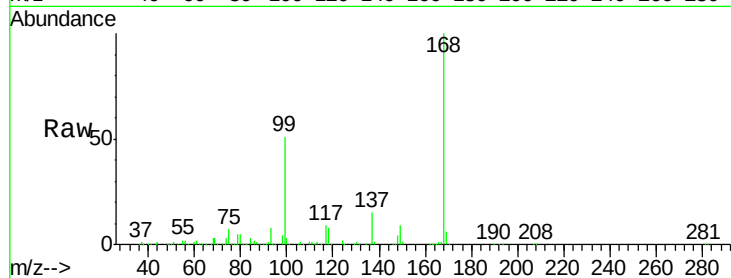
Tot Ion: 56 Resp: 29270

Ion Ratio Lower Upper

56 100

69 190.0 25.0 37.4#

84 148.7 64.6 96.8#

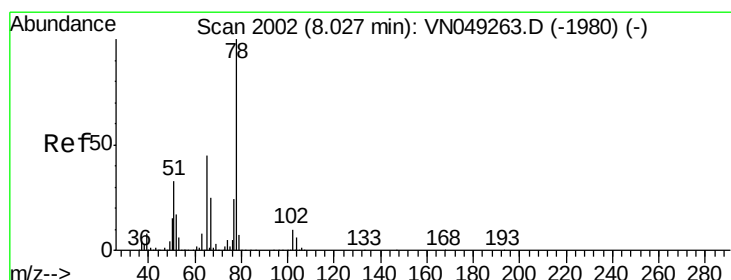
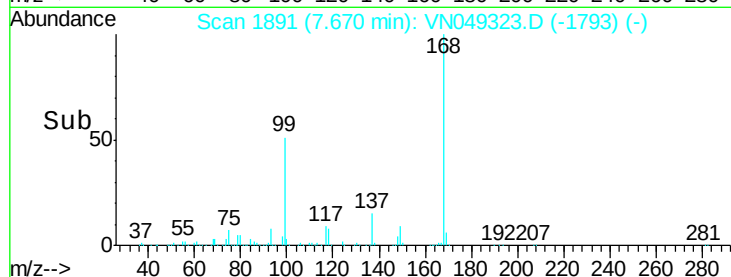


Abundance Ion 56.00 (55.70 to 56.70): VN049323.D (-1860) (-)

Ion 69.00 (68.70 to 69.70): VN049323.D (-1860) (-)

Ion 84.00 (83.70 to 84.70): VN049323.D (-1860) (-)

Time-->



#33

1,2-Dichloroethane-d4

Concen: 48.64 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN049323.D

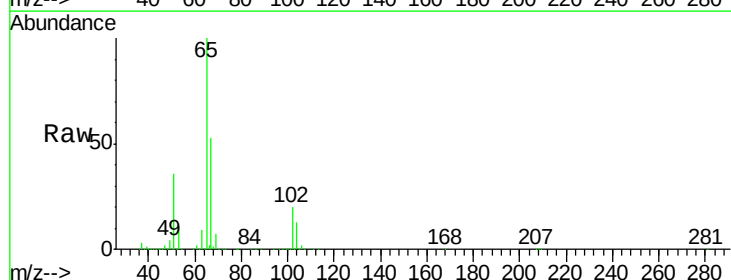
Acq: 16 Jun 2018 21:12

Tgt Ion: 65 Resp: 1059309

Ion Ratio Lower Upper

65 100

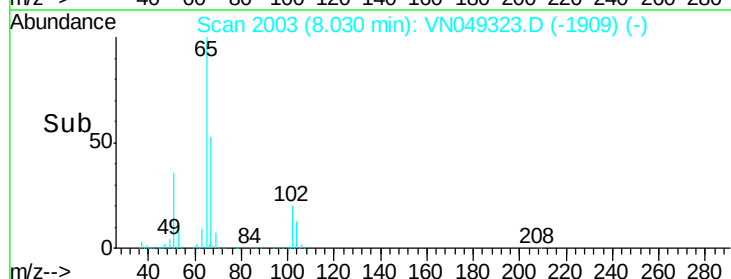
67 53.5 0.0 103.8

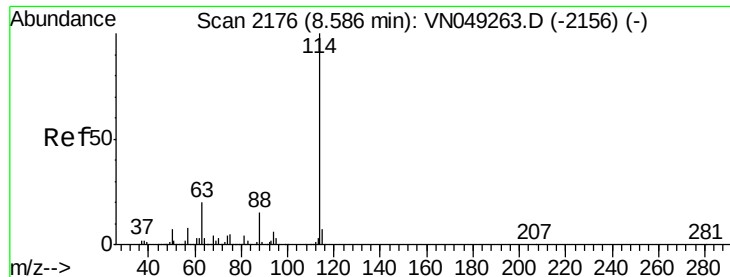


Abundance Ion 64.90 (64.60 to 65.60): VN049323.D (-1909) (-)

Ion 66.90 (66.60 to 67.60): VN049323.D (-1909) (-)

Time-->

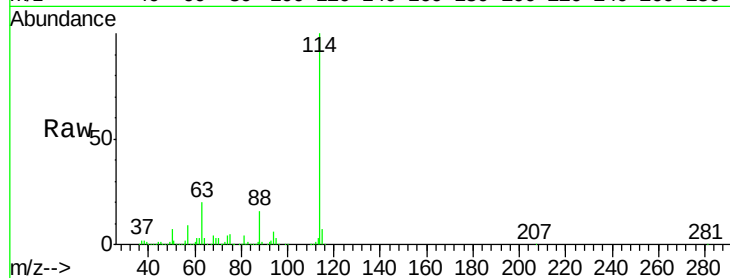




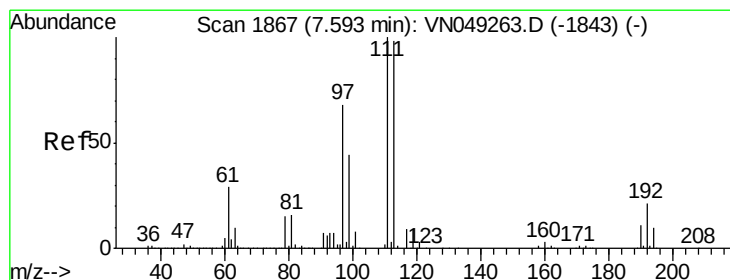
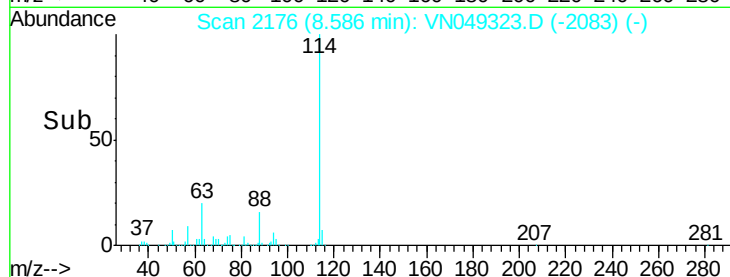
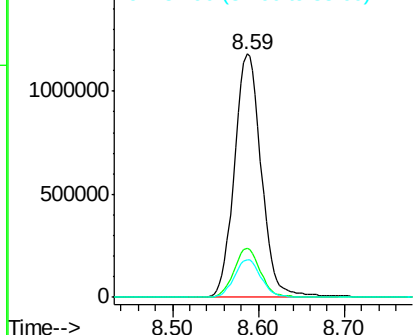
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049323.D
 Acq: 16 Jun 2018 21:12

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 2569676
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 44.4
 88 15.6 0.0 31.4

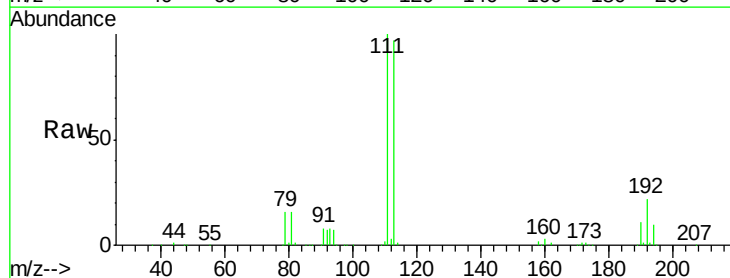


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

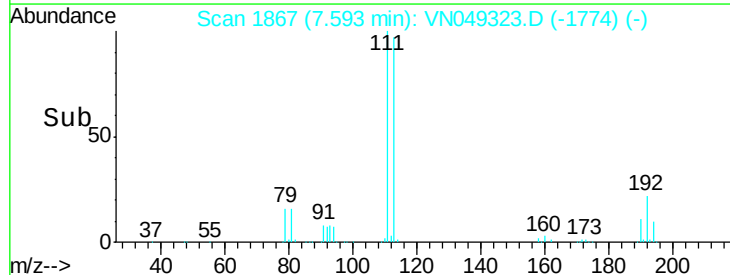
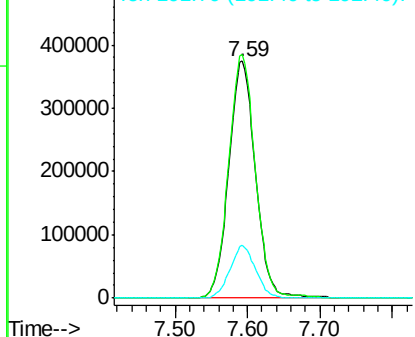


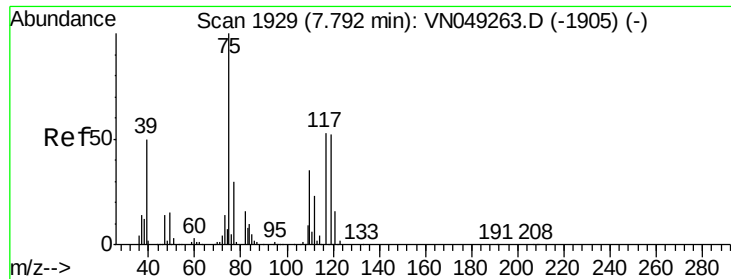
#35
 Dibromofluoromethane
 Concen: 46.10 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN049323.D
 Acq: 16 Jun 2018 21:12

Tgt Ion:113 Resp: 958511
 Ion Ratio Lower Upper
 113 100
 111 102.7 82.4 123.6
 192 21.5 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: 3.85 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.13 min

Lab File: VN049323.D

Acq: 16 Jun 2018 21:12

Instrument :

MSVOA_N

ClientSampleId :

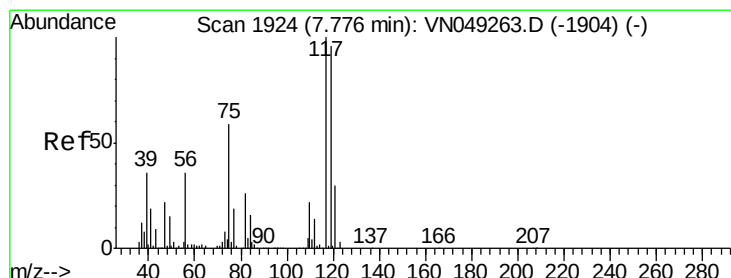
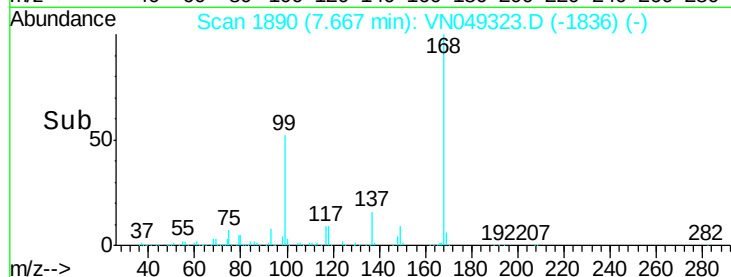
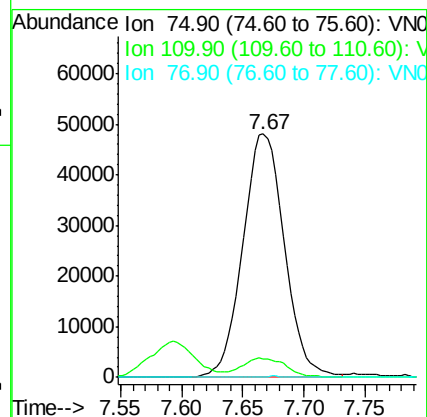
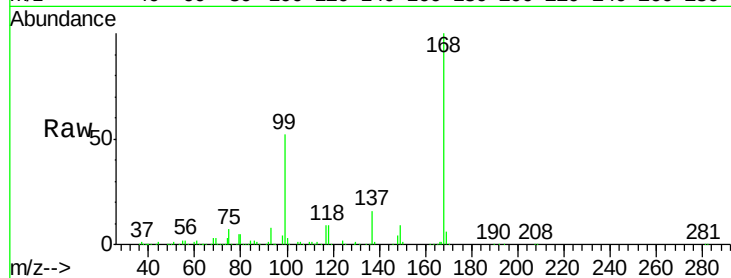
Tot Ion: 75 Resp: 113428

Ion Ratio Lower Upper

75 100

110 8.0 17.0 50.9#

77 0.1 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.87 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN049323.D

Acq: 16 Jun 2018 21:12

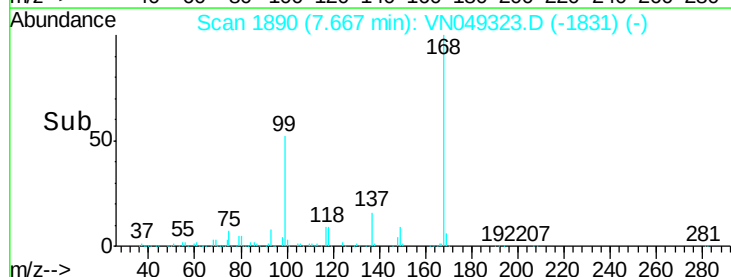
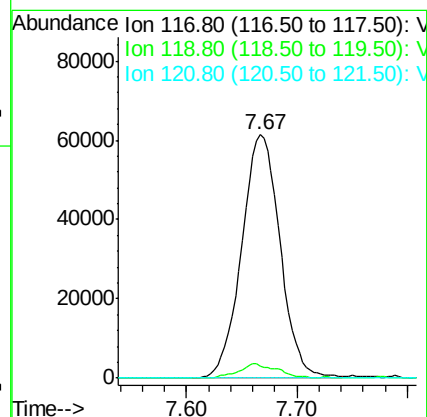
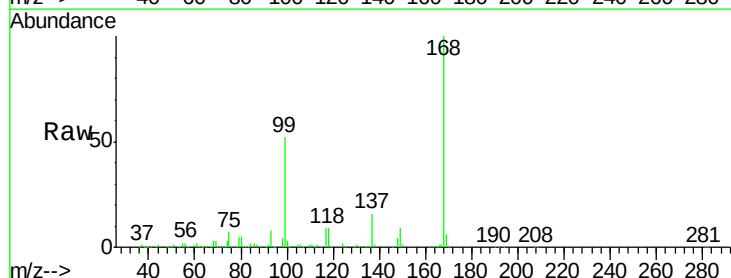
Tgt Ion: 117 Resp: 148498

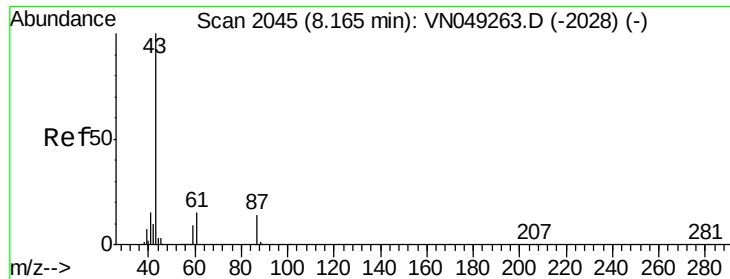
Ion Ratio Lower Upper

117 100

119 5.1 75.6 113.4#

121 0.0 24.7 37.1#





#43

Isopropyl Acetate

Concen: 4.49 ug/l

RT: 8.24 min Scan# 2067

Delta R.T. 0.07 min

Lab File: VN049323.D

Acq: 16 Jun 2018 21:12

Instrument :

MSVOA_N

ClientSampleId :

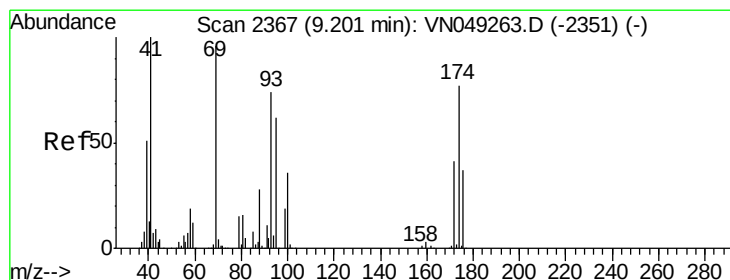
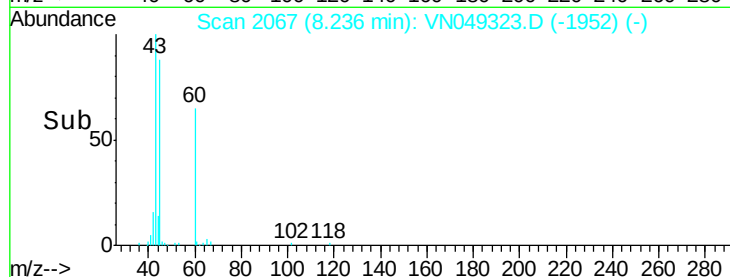
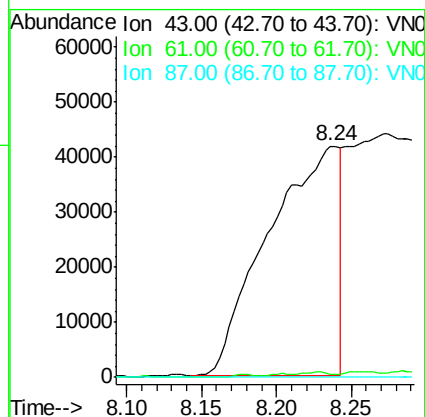
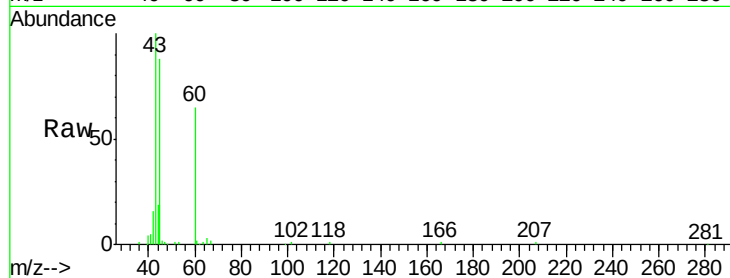
Tot Ion: 43 Resp: 137308

Ion Ratio Lower Upper

43 100

61 0.6 14.2 21.4#

87 0.0 9.4 14.0#



#49

1,4-Dioxane

Concen: 1.54 ug/l

RT: 9.20 min Scan# 2367

Delta R.T. 0.00 min

Lab File: VN049323.D

Acq: 16 Jun 2018 21:12

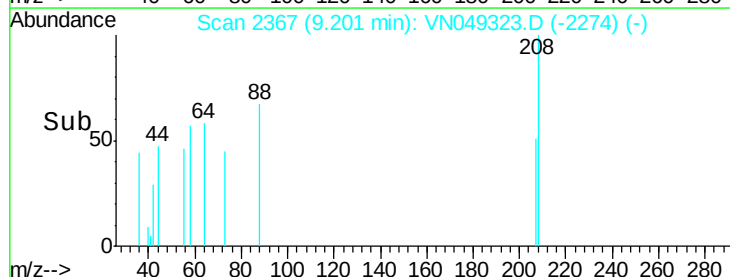
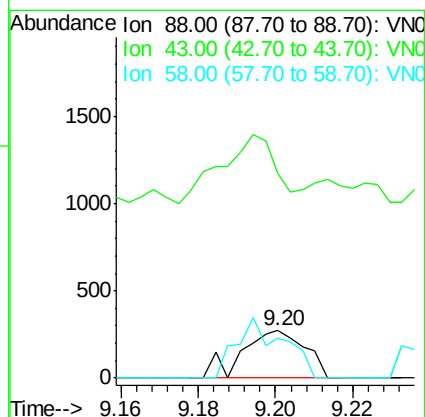
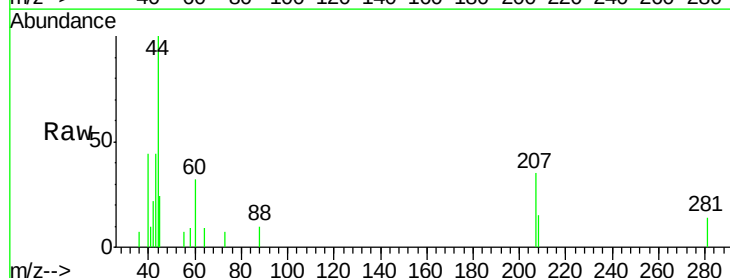
Tgt Ion: 88 Resp: 307

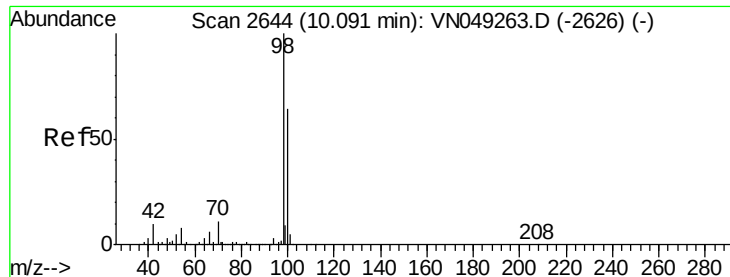
Ion Ratio Lower Upper

88 100

43 127.4 30.9 46.3#

58 94.5 58.9 88.3#

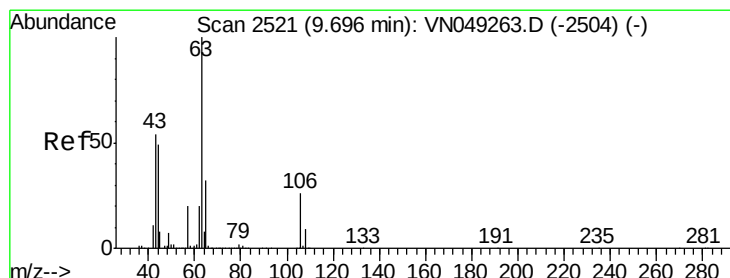
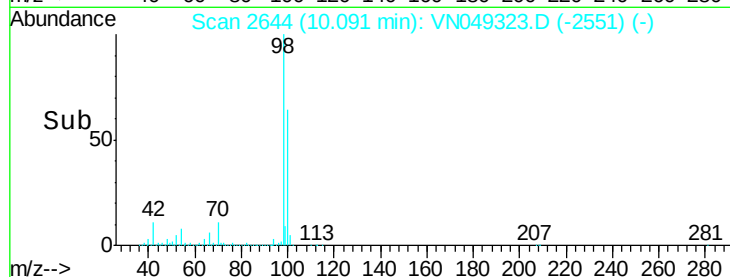
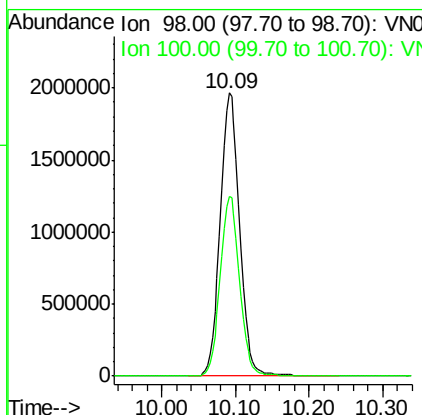
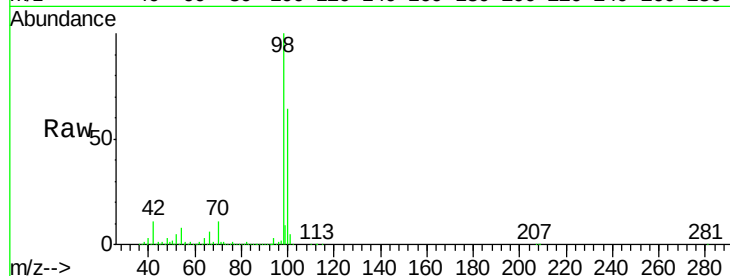




#50
Toluene-d8
Concen: 45.47 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049323.D
Acq: 16 Jun 2018 21:12

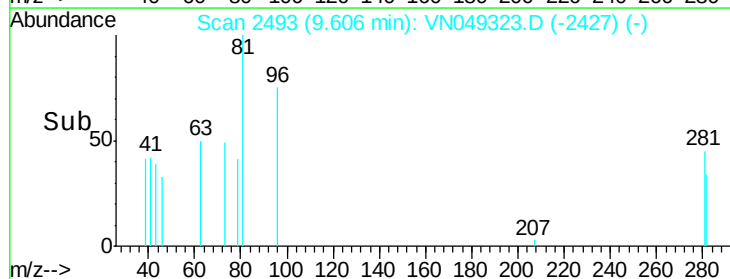
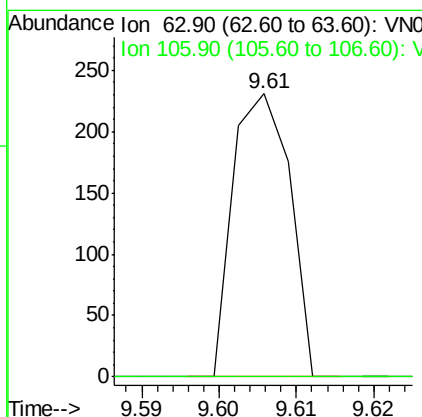
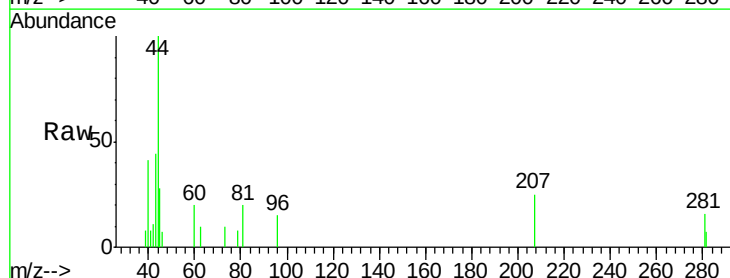
Instrument :
MSVOA_N
ClientSampled :

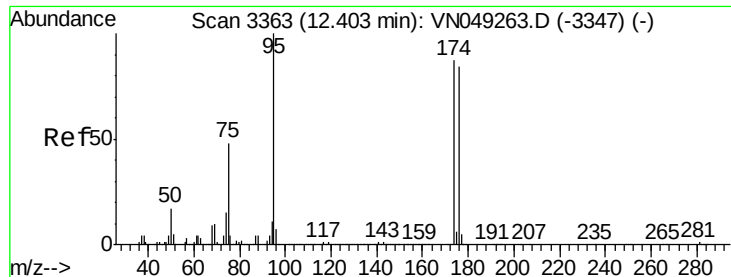
Tot Ion: 98 Resp: 3599458
Ion Ratio Lower Upper
98 100
100 63.5 49.8 74.8



#58
2-Chloroethyl Vinyl ether
Concen: 14.34 ug/l
RT: 9.61 min Scan# 2493
Delta R.T. -0.09 min
Lab File: VN049323.D
Acq: 16 Jun 2018 21:12

Tgt Ion: 63 Resp: 118
Ion Ratio Lower Upper
63 100
106 0.0 19.4 29.2#





#62

4-Bromofluorobenzene

Concen: 38.57 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049323.D

Acq: 16 Jun 2018 21:12

Instrument :

MSVOA_N

ClientSampleId :

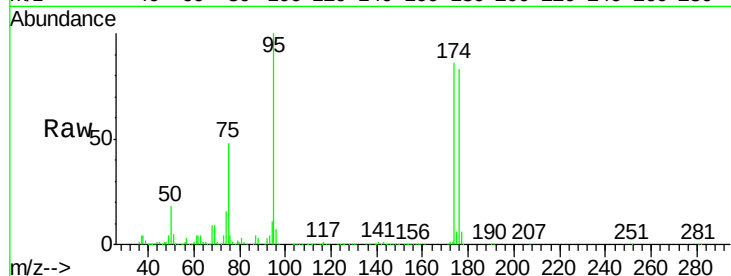
Tot Ion: 95 Resp: 1009577

Ion Ratio Lower Upper

95 100

174 88.5 0.0 165.6

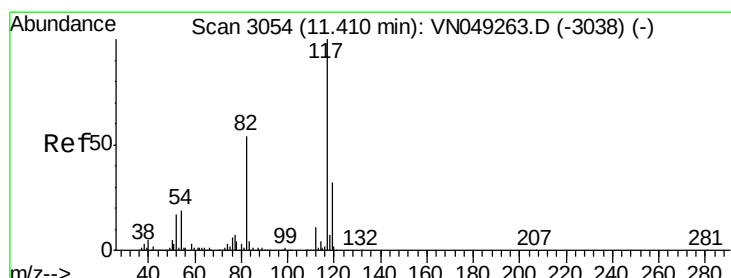
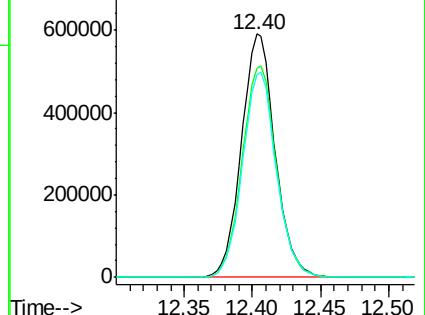
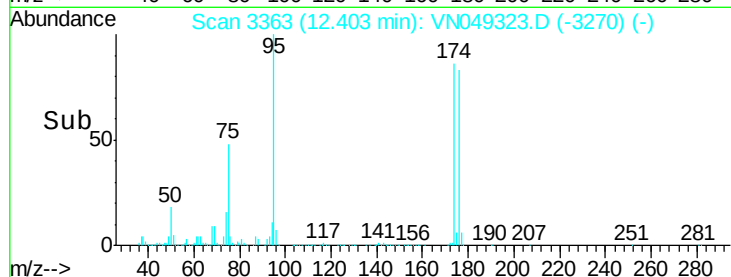
176 84.8 0.0 157.4



Abundance Ion 94.90 (94.60 to 95.60): VN049323.D (-3270) (-)

Ion 173.80 (173.50 to 174.50): VN049323.D (-3270) (-)

Ion 175.80 (175.50 to 176.50): VN049323.D (-3270) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. -0.00 min

Lab File: VN049323.D

Acq: 16 Jun 2018 21:12

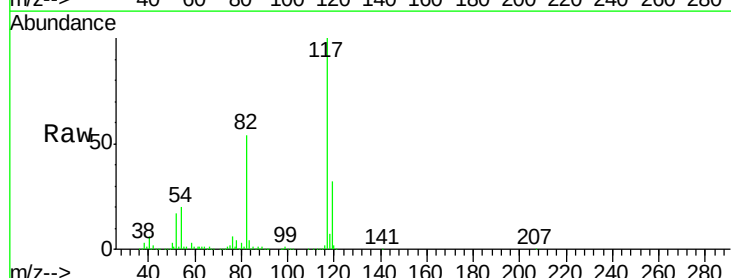
Tgt Ion: 117 Resp: 2187201

Ion Ratio Lower Upper

117 100

82 53.5 45.9 68.9

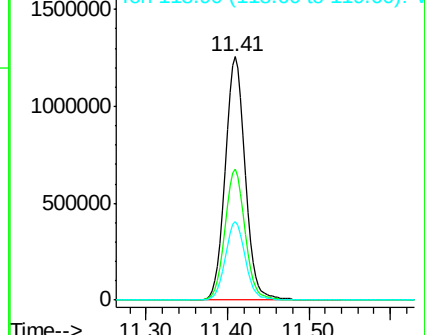
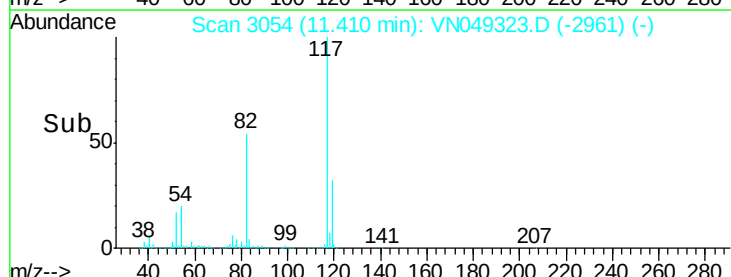
119 32.3 25.5 38.3

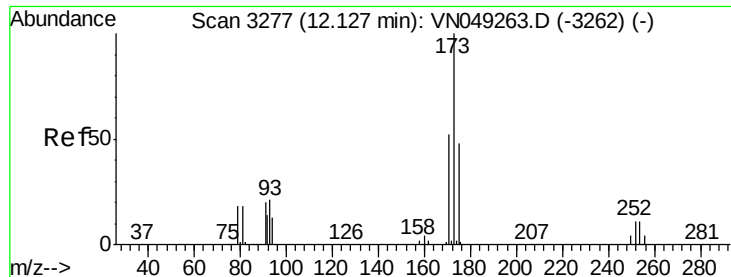


Abundance Ion 116.90 (116.60 to 117.60): VN049323.D (-2961) (-)

Ion 82.00 (81.70 to 82.70): VN049323.D (-2961) (-)

Ion 118.90 (118.60 to 119.60): VN049323.D (-2961) (-)





#71

Bromoform

Concen: 0.50 ug/l

RT: 12.41 min Scan# 3365

Delta R.T. 0.28 min

Lab File: VN049323.D

Acq: 16 Jun 2018 21:12

Instrument :

MSVOA_N

ClientSampled :

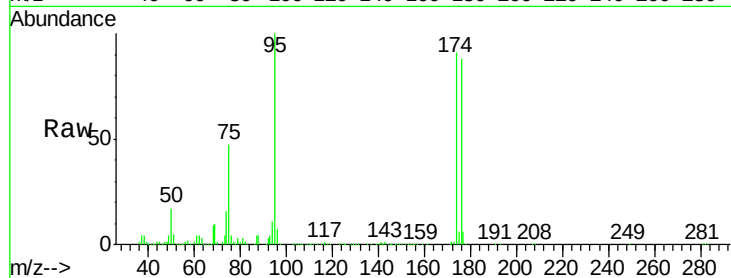
Tot Ion:173 Resp: 6832

Ion Ratio Lower Upper

173 100

175 746.0 24.5 73.5#

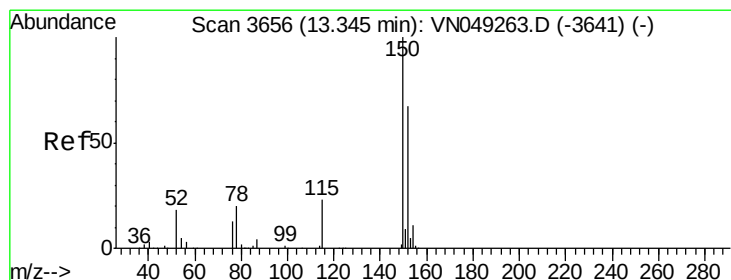
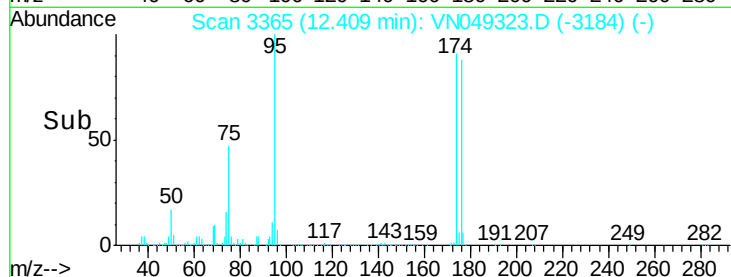
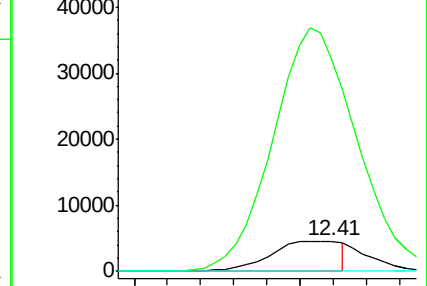
254 0.0 0.1 0.1#



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: VN049323.D

Acq: 16 Jun 2018 21:12

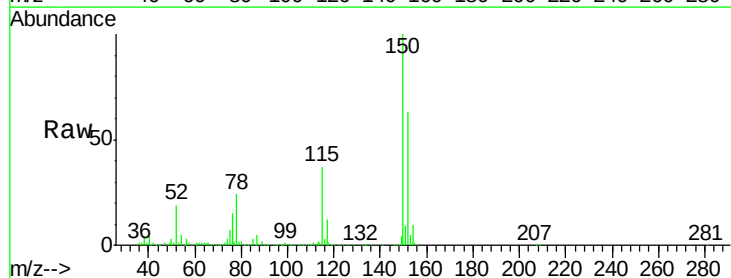
Tgt Ion:152 Resp: 740865

Ion Ratio Lower Upper

152 100

115 57.9 28.7 86.1

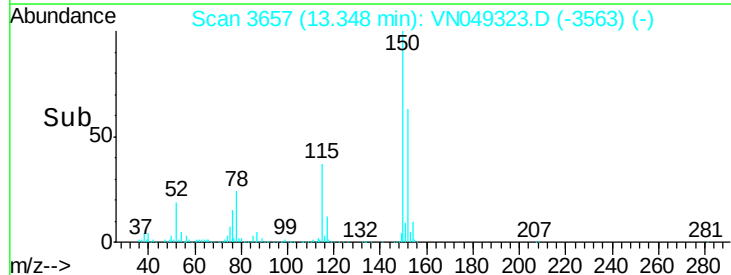
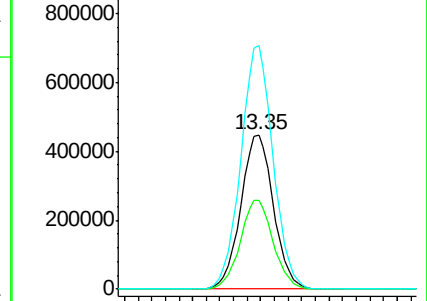
150 156.1 0.0 351.0

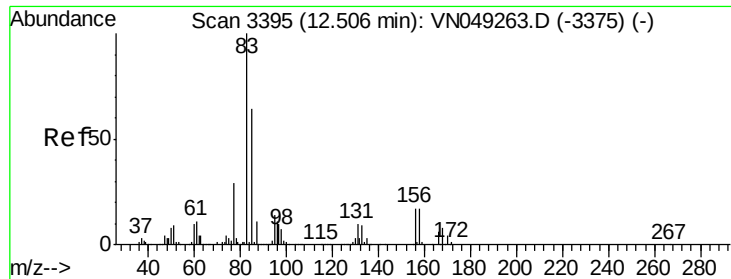


Abundance Ion 151.90 (151.60 to 152.60): V

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: 12.49 min Scan# 3391

Delta R.T. -0.01 min

Lab File: VN049323.D

Acq: 16 Jun 2018 21:12

Instrument :

MSVOA_N

ClientSampleId :

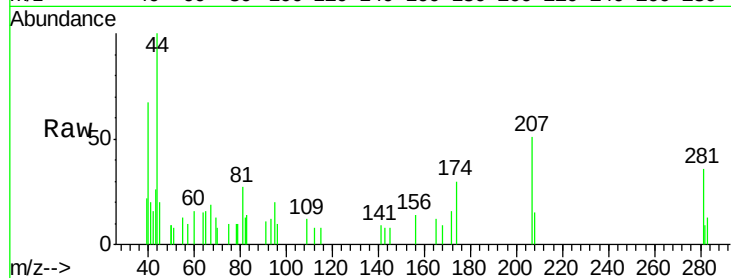
Tot Ion: 83 Resp: 135

Ion Ratio Lower Upper

83 100

131 0.0 5.0 15.0#

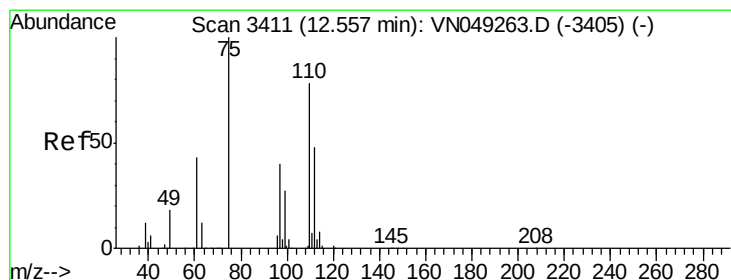
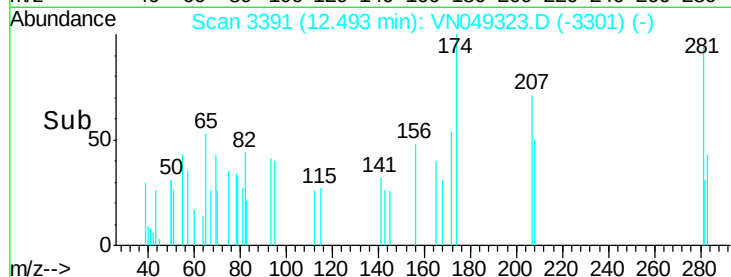
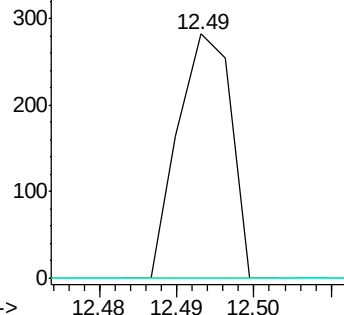
85 0.0 32.0 96.0#



Abundance Ion 82.90 (82.60 to 83.60): VN0

Ion 130.80 (130.50 to 131.50): VN0

Ion 84.90 (84.60 to 85.60): VN0



#76

1,2,3-Trichloropropane

Concen: 38.46 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049323.D

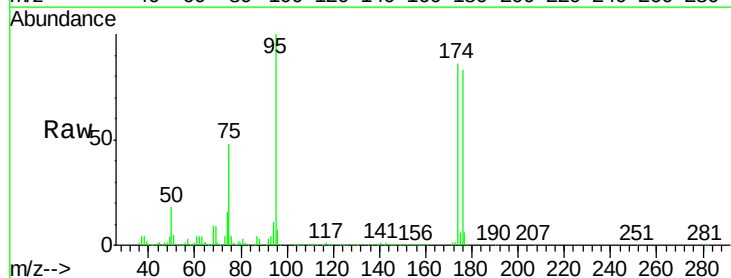
Acq: 16 Jun 2018 21:12

Tgt Ion: 75 Resp: 486216

Ion Ratio Lower Upper

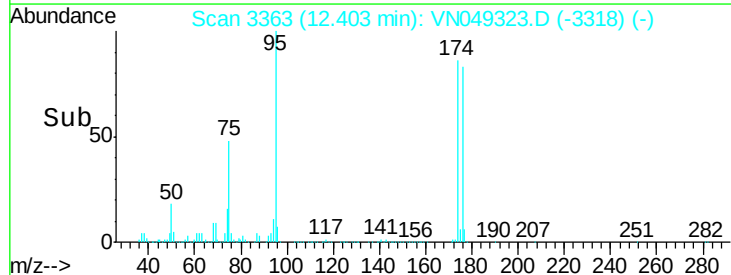
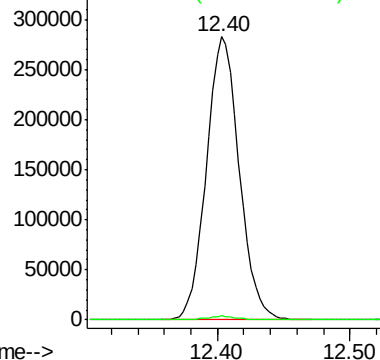
75 100

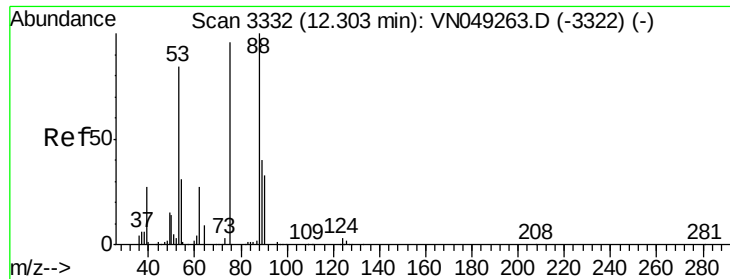
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 121.56 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049323.D

Acq: 16 Jun 2018 21:12

Instrument :

MSVOA_N

ClientSampleId :

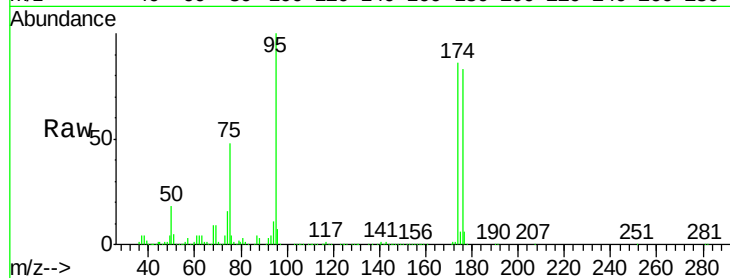
Tot Ion: 75 Resp: 486216

Ion Ratio Lower Upper

75 100

53 0.1 82.7 124.1#

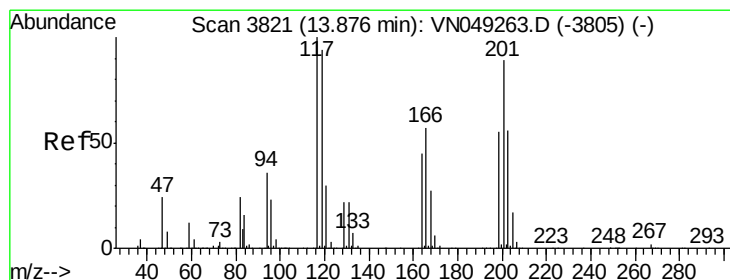
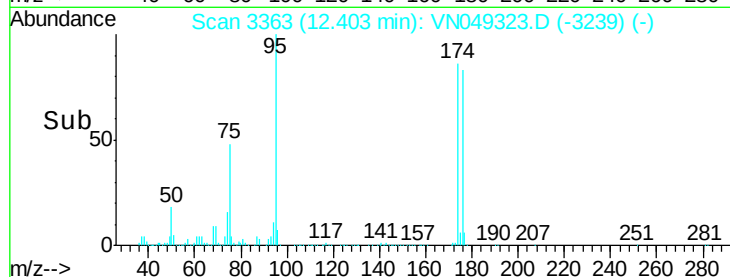
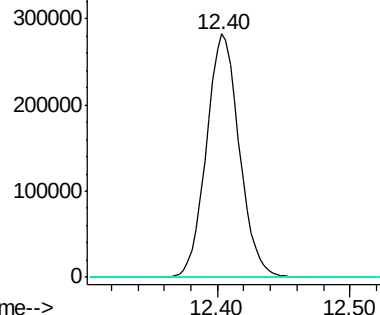
89 0.0 36.5 54.7#



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



#90

Hexachloroethane

Concen: Below Cal

RT: 13.89 min Scan# 3825

Delta R.T. 0.01 min

Lab File: VN049323.D

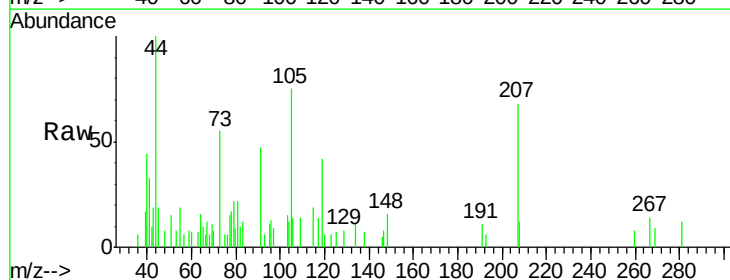
Acq: 16 Jun 2018 21:12

Tgt Ion: 117 Resp: 544

Ion Ratio Lower Upper

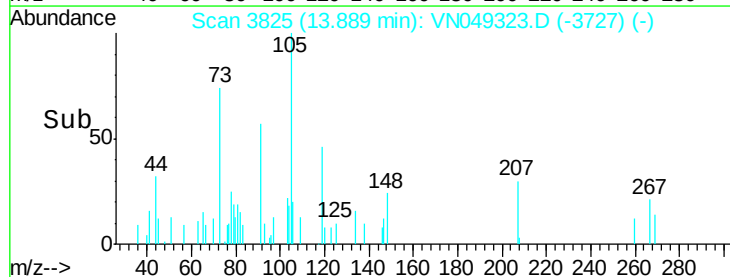
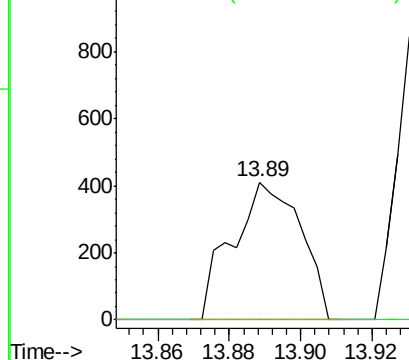
117 100

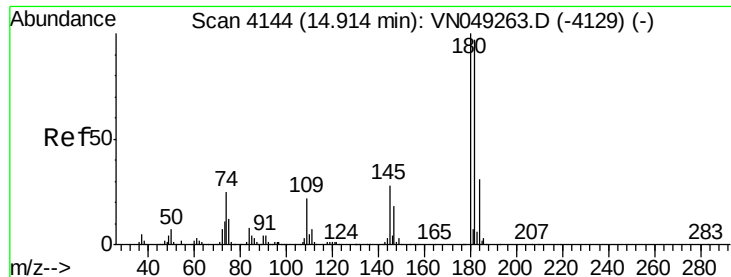
201 0.0 40.1 120.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

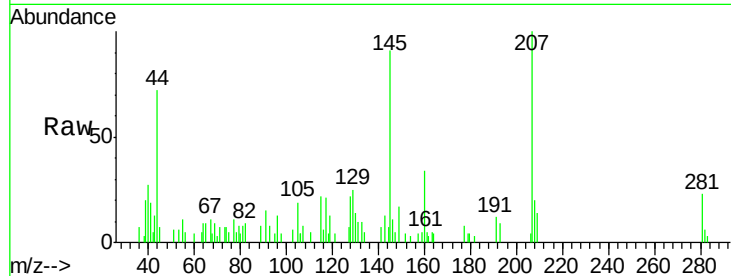




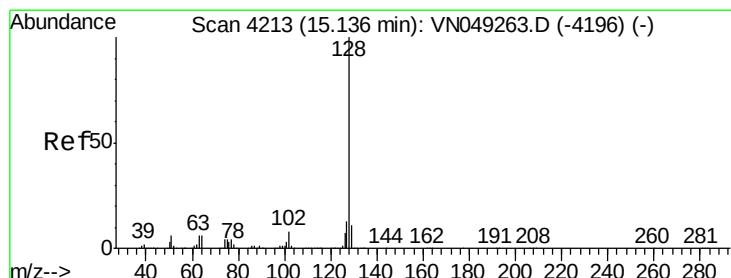
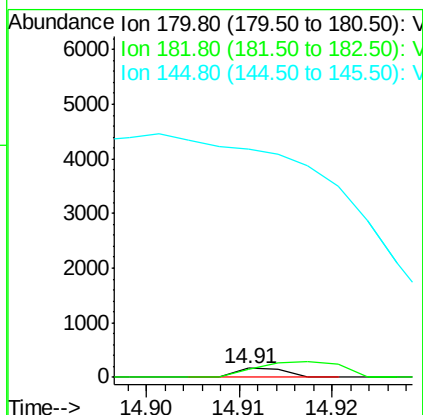
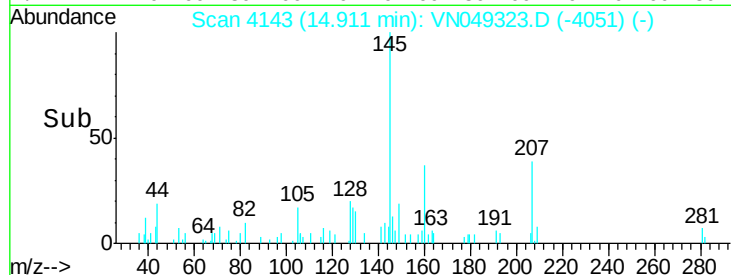
#93
 1,2,4-Trichlorobenzene
 Concen: 4.75 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. -0.00 min
 Lab File: VN049323.D
 Acq: 16 Jun 2018 21:12

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:180 Resp: 61
 Ion Ratio Lower Upper
 180 100
 182 300.0 46.9 140.8#
 145 18904.9 14.7 44.1#

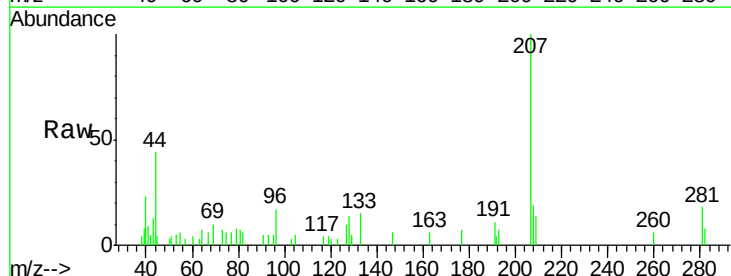


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

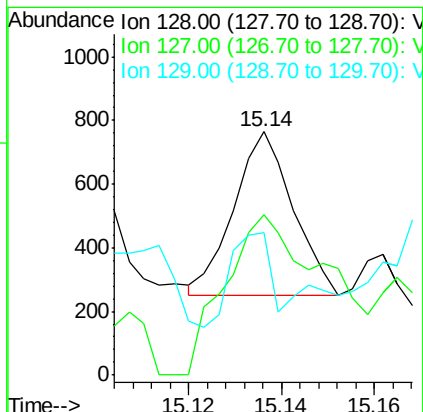
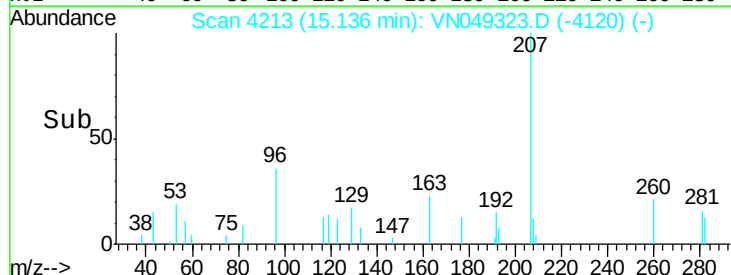


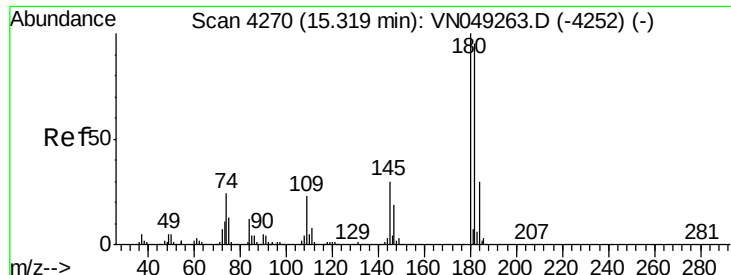
#95
 Naphthalene
 Concen: 2.10 ug/l
 RT: 15.14 min Scan# 4213
 Delta R.T. 0.00 min
 Lab File: VN049323.D
 Acq: 16 Jun 2018 21:12

Tgt Ion:128 Resp: 457
 Ion Ratio Lower Upper
 128 100
 127 168.7 10.6 16.0#
 129 0.0 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





#96
 1,2,3-Trichlorobenzene
 Concen: 3.46 ug/l
 RT: 15.34 min Scan# 4275
 Delta R.T. 0.02 min
 Lab File: VN049323.D
 Acq: 16 Jun 2018 21:12

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	251.0	47.3	141.8#
145	0.0	15.6	46.7#

