

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101918\
 Data File : VN051955.D
 Acq On : 19 Oct 2018 18:28
 Operator : MD\SY
 Sample : J5538-24 50X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 CNS01

Quant Time: Oct 19 23:10:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101718W.M
 Quant Title : SW846 8260
 QLast Update : Fri Oct 19 05:11:28 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	940189	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1376301	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1261900	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	592876	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	519201	59.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.14%	
35) Dibromofluoromethane	7.59	113	106649	12.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	24.38%	
50) Toluene-d8	10.09	98	1905964	59.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.72%	
62) 4-Bromofluorobenzene	12.40	95	597224	56.19	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.38%	

Target Compounds

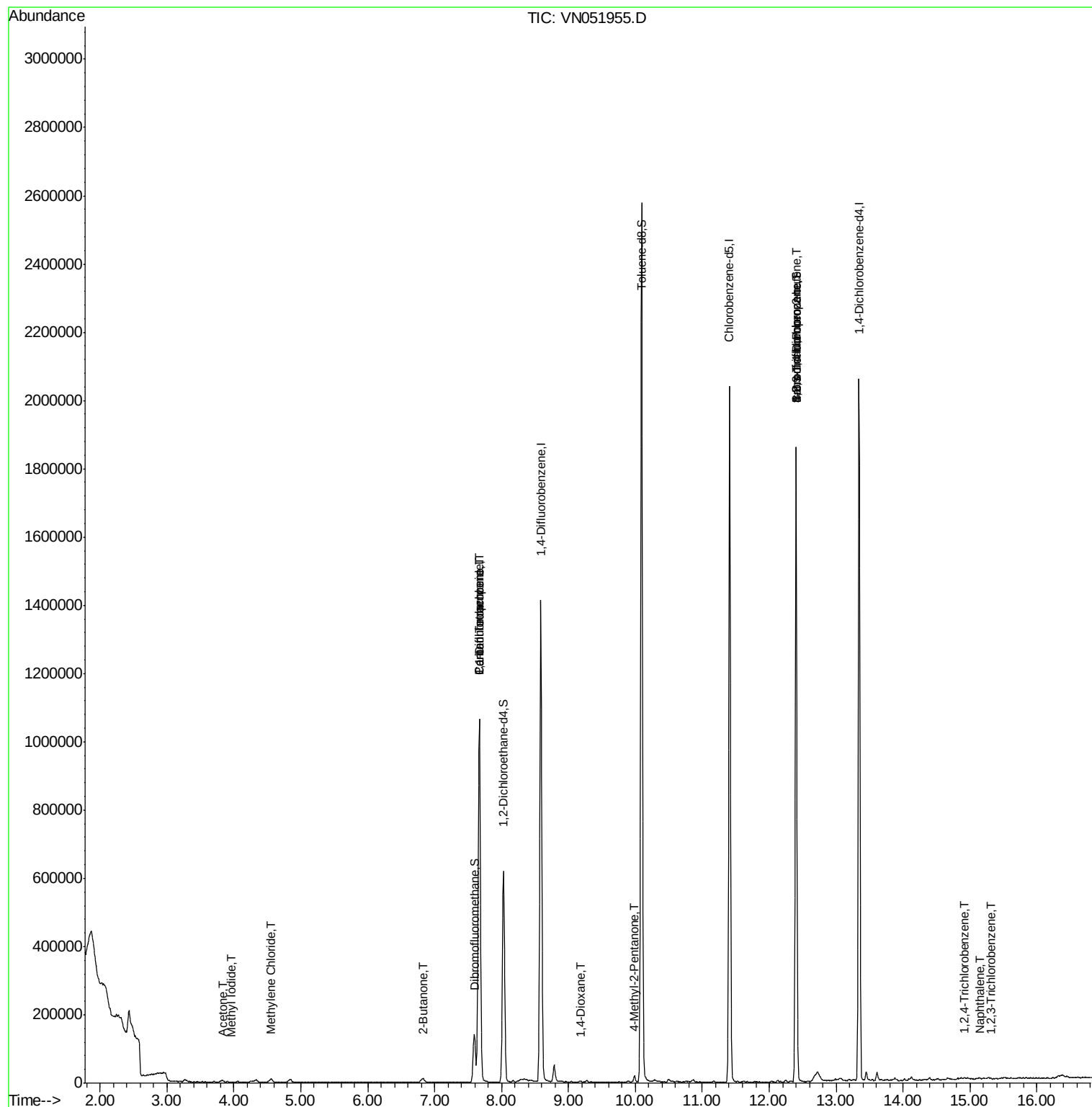
					Qvalue
5) Bromomethane	2.57	94	278	Below Cal	# 66
10) Methyl Iodide	3.96	142	60	3.287 ug/l	# 41
13) Acrolein	3.62	56	61	Below Cal	# 14
16) Acetone	3.83	43	10038	6.504 ug/l	97
18) Methyl Acetate	4.33	43	11474	Below Cal	# 76
20) Methylene Chloride	4.56	84	7507	0.957 ug/l	88
25) 2-Butanone	6.84	43	1531	0.694 ug/l	# 77
31) Cyclohexane	7.66	56	16133	Below Cal	# 42
36) 1,1-Dichloropropene	7.67	75	57806	5.411 ug/l	# 48
37) Ethyl Acetate	6.96	43	339	Below Cal	# 64
38) Carbon Tetrachloride	7.67	117	84886	6.748 ug/l	# 15
43) Isopropyl Acetate	8.16	43	3946	Below Cal	94
49) 1,4-Dioxane	9.20	88	61	0.745 ug/l	# 1
51) 4-Methyl-2-Pentanone	9.99	43	10732	2.158 ug/l	# 69
71) Bromoform	12.40	173	5708	3.990 ug/l	# 1
76) 1,2,3-Trichloropropane	12.40	75	301362	41.821 ug/l	# 100
79) 2-Chlorotoluene	12.67	91	320	Below Cal	# 36
81) trans-1,4-Dichloro-2-buten	12.40	75	301362	137.460 ug/l	# 15
93) 1,2,4-Trichlorobenzene	14.90	180	136	4.074 ug/l	# 28
95) Naphthalene	15.13	128	2204	4.165 ug/l	# 92
96) 1,2,3-Trichlorobenzene	15.32	180	62	2.920 ug/l	# 22

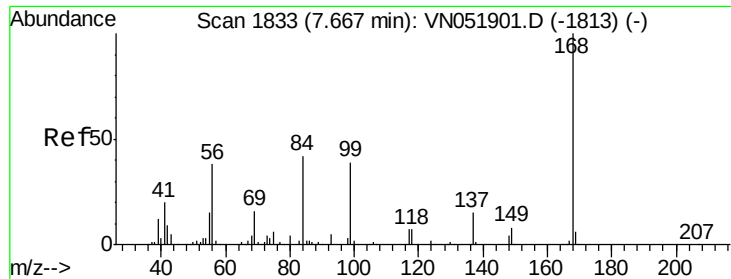
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Oct 19 05:11:28 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051955.D

Acq: 19 Oct 2018 18:28

Instrument :

MSVOA_N

ClientSampleId :

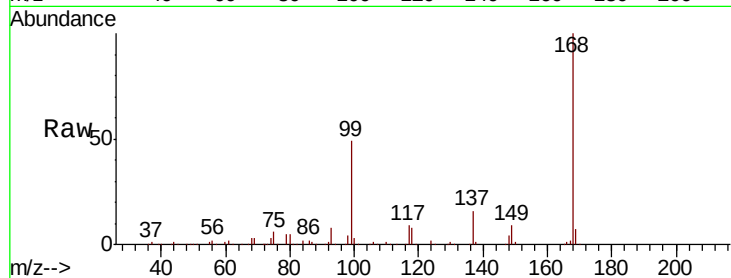
CNS01

Tot Ion:168 Resp: 940189

Ion Ratio Lower Upper

168 100

99 48.6 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VN051901.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051901.D (-1813) (-)

7.67

400000

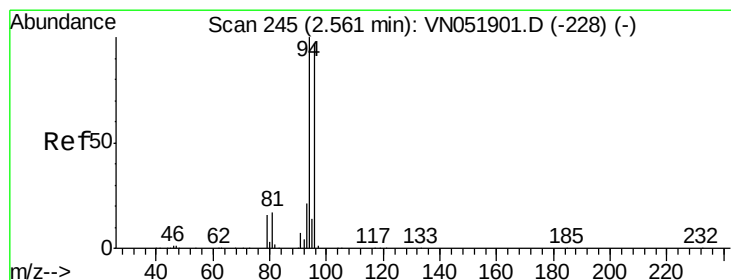
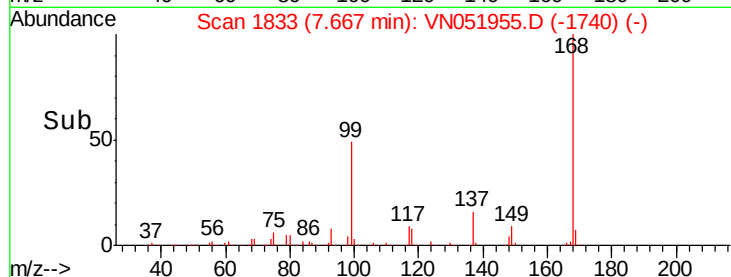
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051955.D

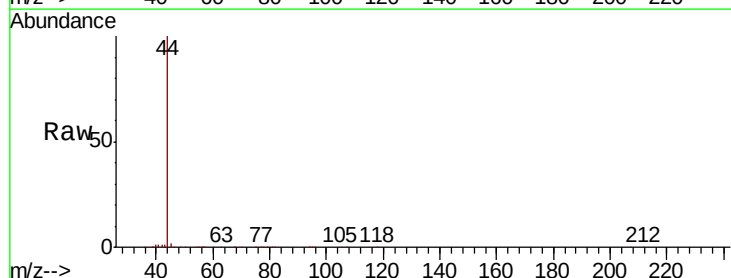
Acq: 19 Oct 2018 18:28

Tgt Ion: 94 Resp: 278

Ion Ratio Lower Upper

94 100

96 63.5 77.5 116.3#



Abundance Ion 93.90 (93.60 to 94.60): VN051901.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VN051901.D (-228) (-)

2.57

500

400

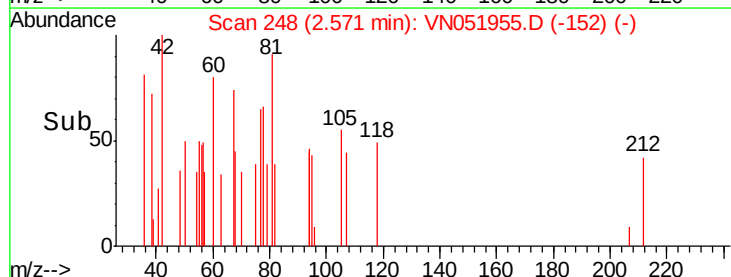
300

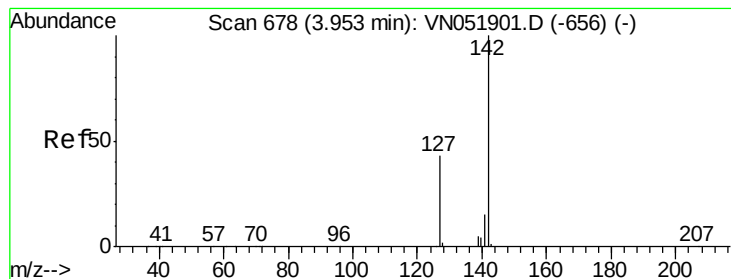
200

100

0

Time-->





#10

Methyl Iodide

Concen: 3.287 ug/l

RT: 3.96 min Scan# 680

Delta R.T. 0.01 min

Lab File: VN051955.D

Acq: 19 Oct 2018 18:28

Instrument :

MSVOA_N

ClientSampled :

CNS01

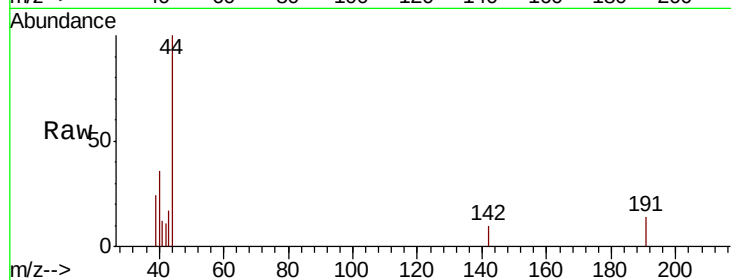
Tot Ion:142 Resp: 60

Ion Ratio Lower Upper

142 100

127 0.0 34.3 51.5#

141 0.0 11.1 16.7#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

3.96

150

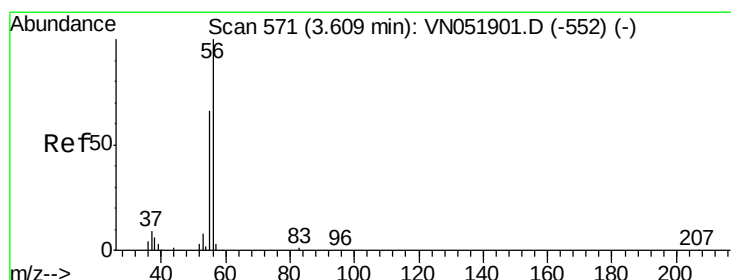
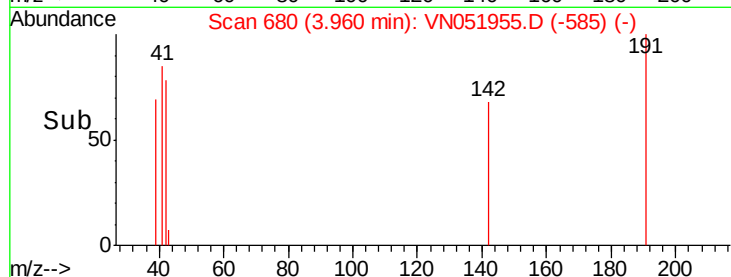
100

50

0

3.95 3.96 3.97

Time-->



#13

Acrolein

Concen: Below Cal

RT: 3.62 min Scan# 574

Delta R.T. 0.01 min

Lab File: VN051955.D

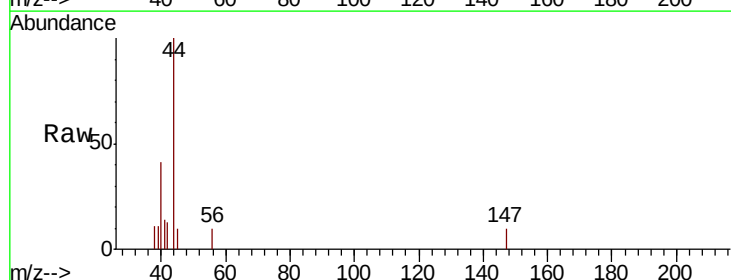
Acq: 19 Oct 2018 18:28

Tgt Ion: 56 Resp: 61

Ion Ratio Lower Upper

56 100

55 0.0 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): V

Ion 55.00 (54.70 to 55.70): V

3.62

150

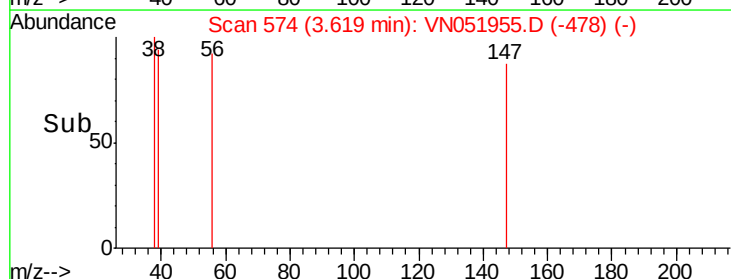
100

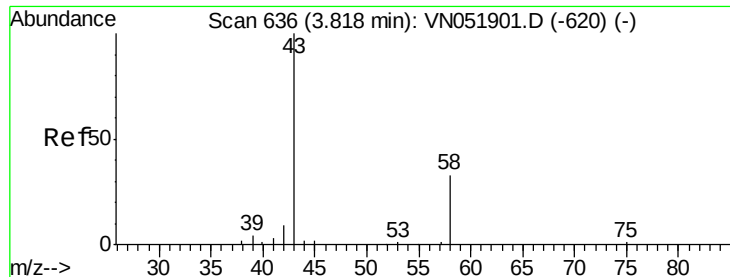
50

0

3.61 3.62 3.63 3.63

Time-->





#16

Acetone

Concen: 6.504 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN051955.D

Acq: 19 Oct 2018 18:28

Instrument :

MSVOA_N

ClientSampleId :

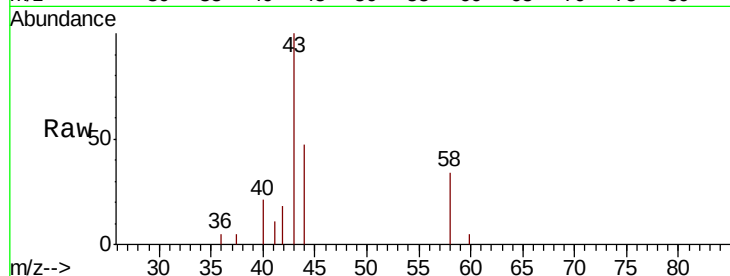
CNS01

Tot Ion: 43 Resp: 10038

Ion Ratio Lower Upper

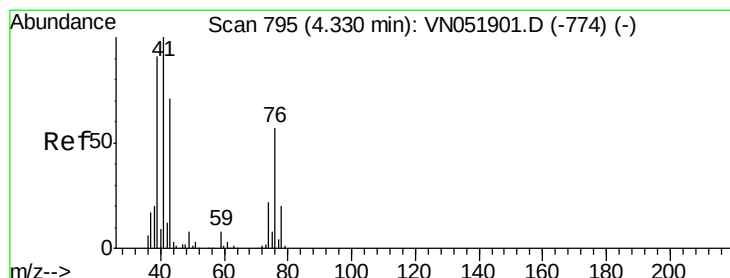
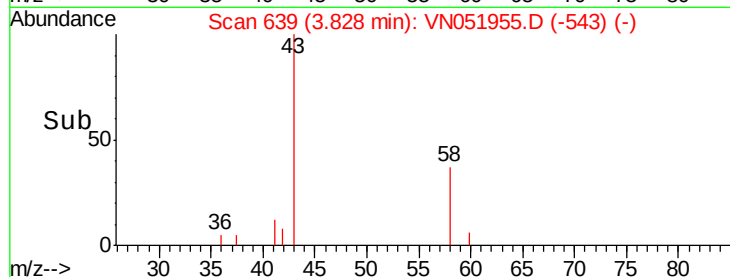
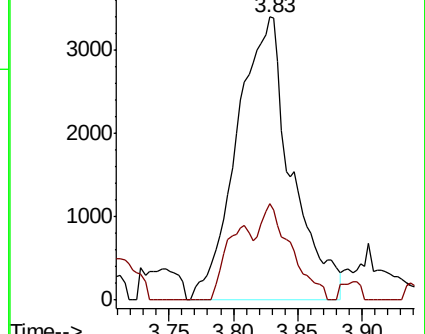
43 100

58 34.2 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: Below Cal

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN051955.D

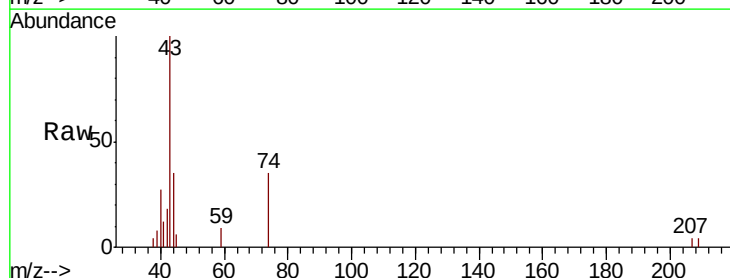
Acq: 19 Oct 2018 18:28

Tgt Ion: 43 Resp: 11474

Ion Ratio Lower Upper

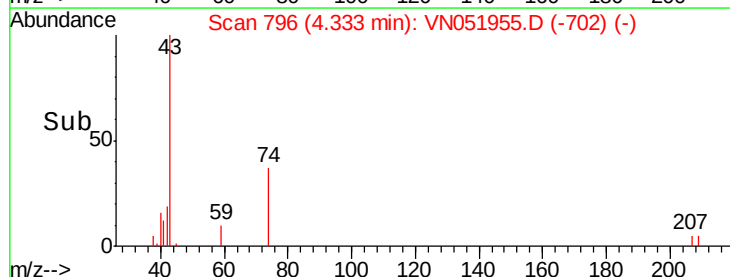
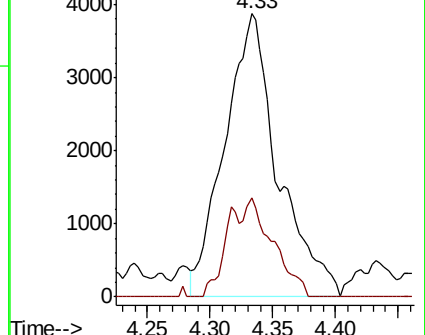
43 100

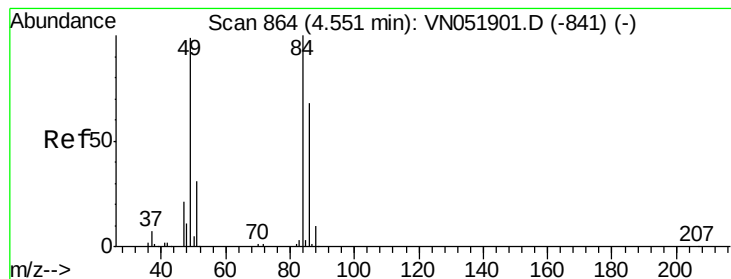
74 17.6 24.9 37.3#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methvlene Chloride

Concen: 0.957 ug/l

RT: 4.56 min Scan# 868

Delta R.T. 0.01 min

Lab File: VN051955.D

Acq: 19 Oct 2018 18:28

Instrument :

MSVOA_N

ClientSampleId :

CNS01

Tot Ion: 84 Resp: 7507

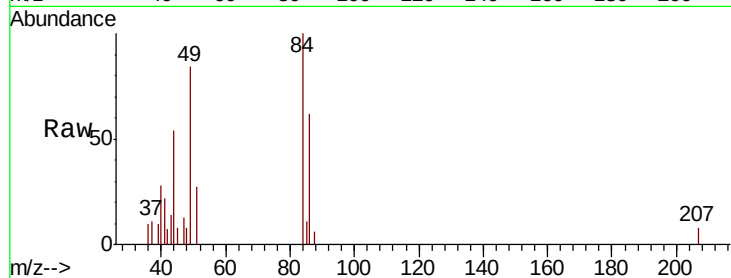
Ion Ratio Lower Upper

84 100

49 83.9 79.0 118.4

51 26.6 24.9 37.3

86 61.7 54.6 82.0

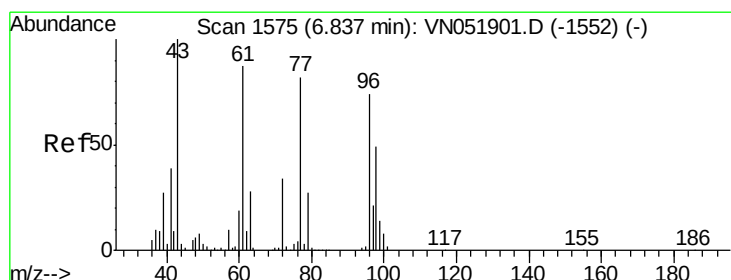
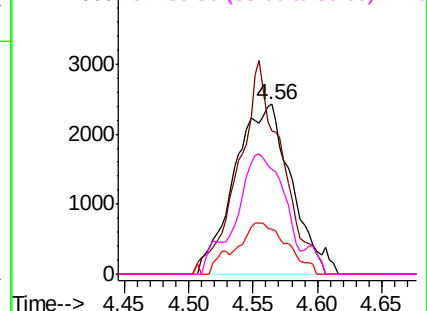
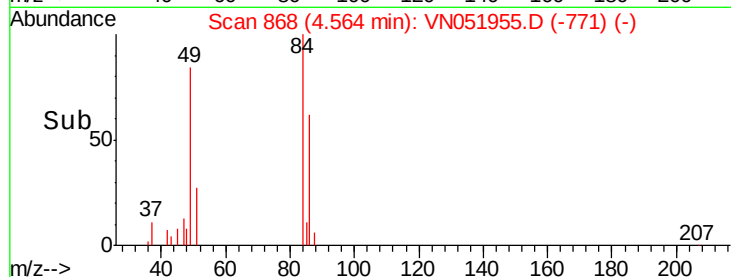


Abundance Ion 83.90 (83.60 to 84.60): VNO

Ion 48.90 (48.60 to 49.60): VNO

Ion 50.90 (50.60 to 51.60): VNO

Ion 85.90 (85.60 to 86.60): VNO



#25

2-Butanone

Concen: 0.694 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. 0.00 min

Lab File: VN051955.D

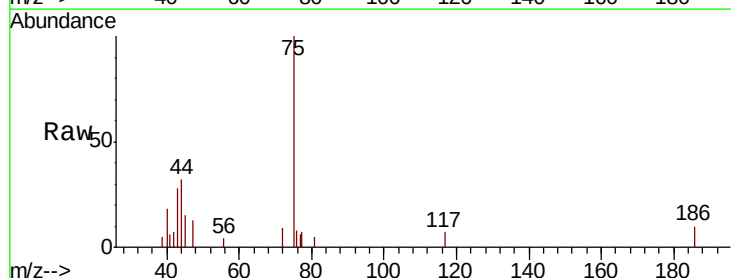
Acq: 19 Oct 2018 18:28

Tgt Ion: 43 Resp: 1531

Ion Ratio Lower Upper

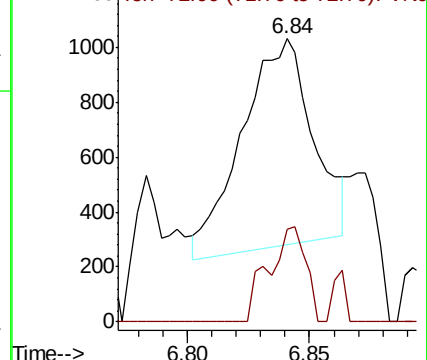
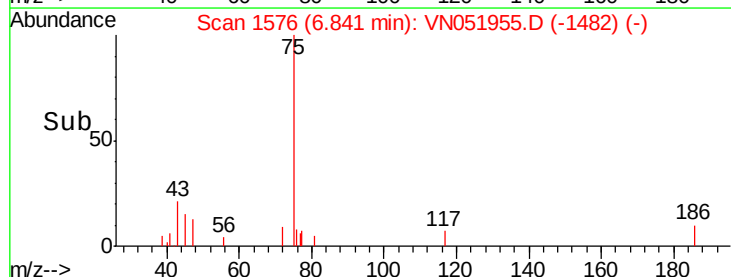
43 100

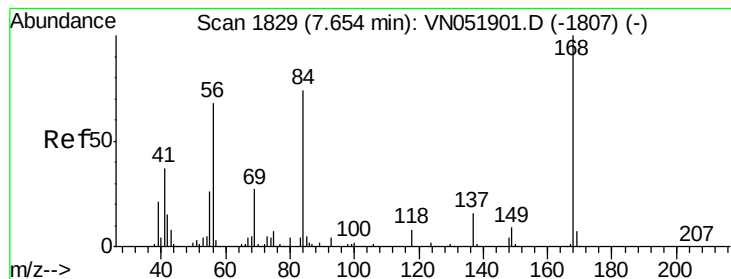
72 47.2 27.0 40.6#



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 72.00 (71.70 to 72.70): VNO





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN051955.D

Acq: 19 Oct 2018 18:28

Instrument :

MSVOA_N

ClientSampleId :

CNS01

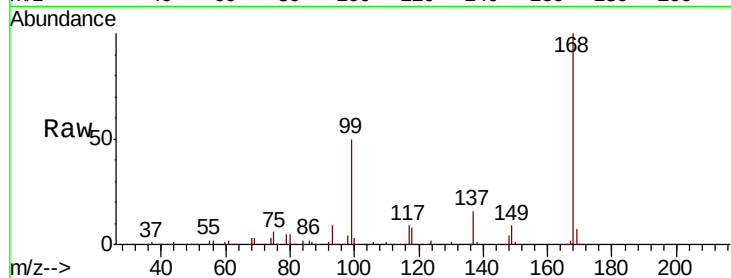
Tot Ion: 56 Resp: 16133

Ion Ratio Lower Upper

56 100

69 159.5 31.2 46.8#

84 117.1 86.6 130.0

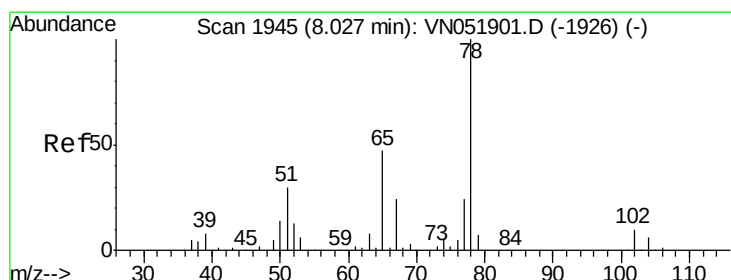
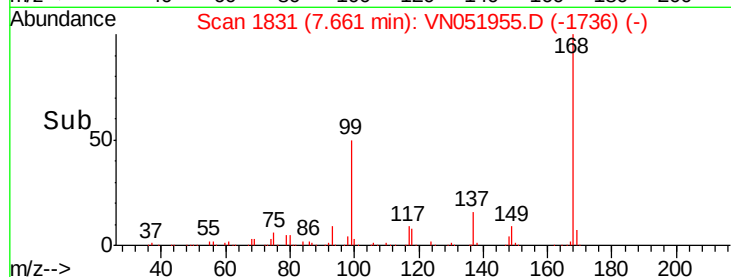
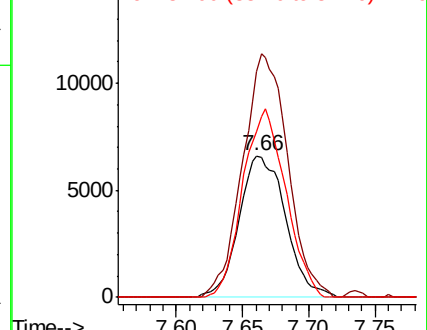


Abundance

Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN051955.D

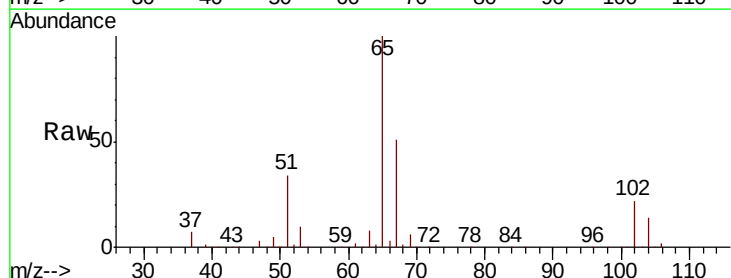
Acq: 19 Oct 2018 18:28

Tgt Ion: 65 Resp: 519201

Ion Ratio Lower Upper

65 100

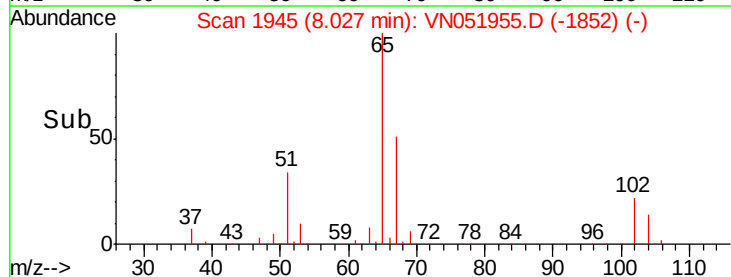
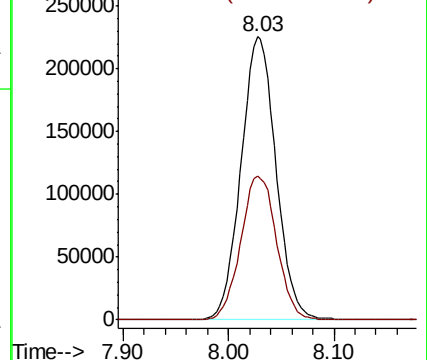
67 52.1 0.0 104.0

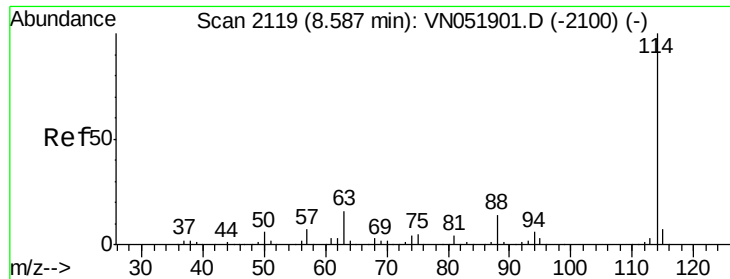


Abundance

Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



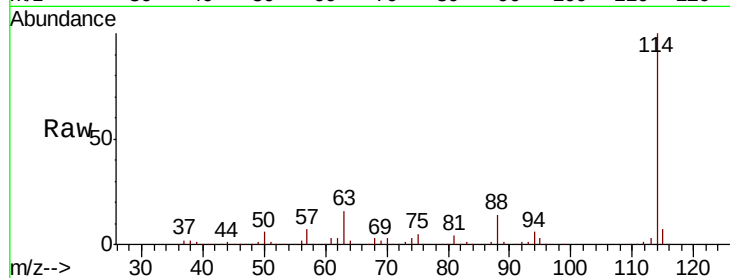


#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051955.D
 Acq: 19 Oct 2018 18:28

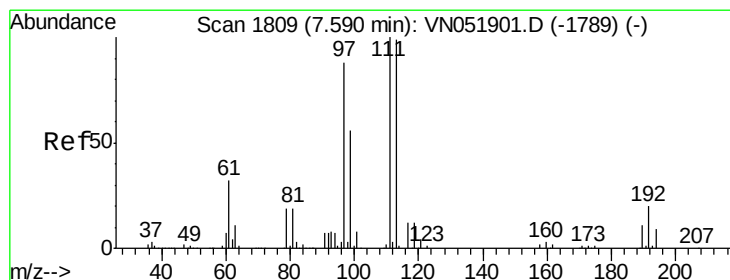
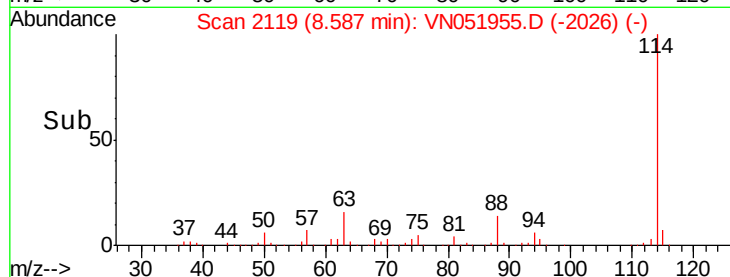
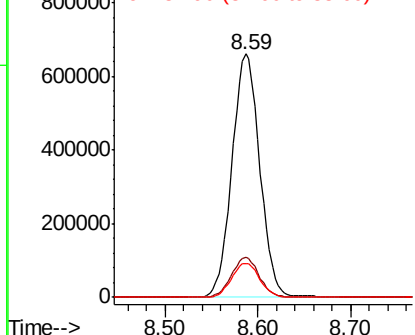
Instrument :
 MSVOA_N
 ClientSampleId :
 CNS01

Tot Ion:114 Resp: 1376301

Ion	Ratio	Lower	Upper
114	100		
63	16.2	0.0	31.8
88	13.9	0.0	28.0



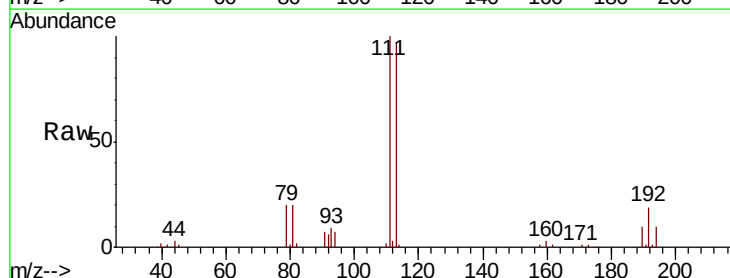
Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN



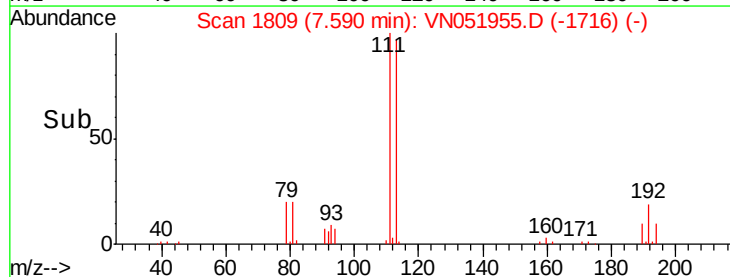
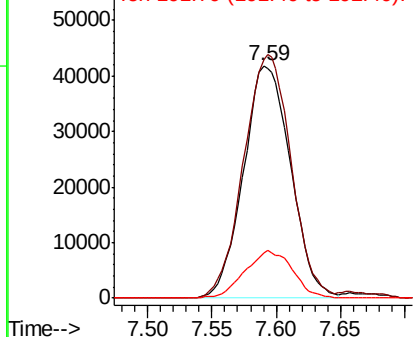
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN051955.D
 Acq: 19 Oct 2018 18:28

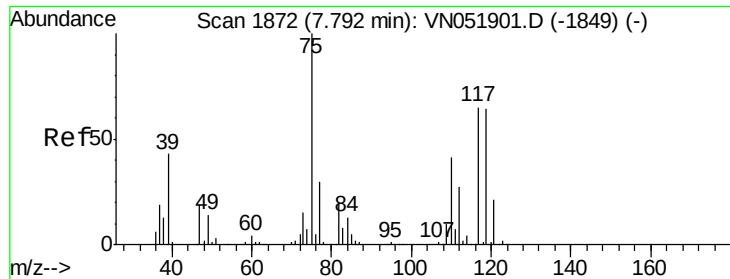
Tgt Ion:113 Resp: 106649

Ion	Ratio	Lower	Upper
113	100		
111	105.1	82.6	123.8
192	20.7	17.3	25.9



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: 5.411 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN051955.D

Acq: 19 Oct 2018 18:28

Instrument :

MSVOA_N

ClientSampleId :

CNS01

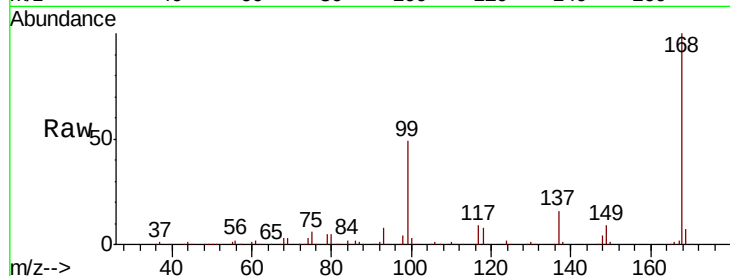
Tot Ion: 75 Resp: 57806

Ion Ratio Lower Upper

75 100

110 10.8 21.0 63.0#

77 0.0 24.9 37.3#

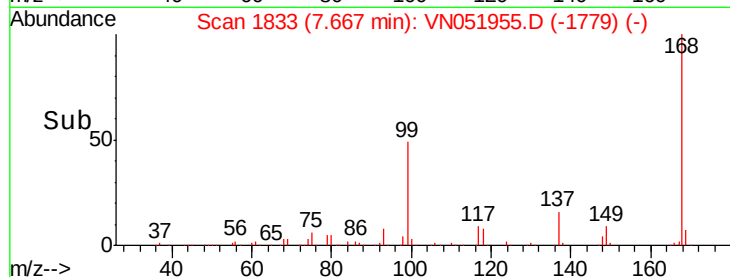


Abundance Ion 74.90 (74.60 to 75.60): VN051901.D (-1849) (-)

Ion 109.90 (109.60 to 110.60): VN051901.D (-1849) (-)

Ion 76.90 (76.60 to 77.60): VN051901.D (-1849) (-)

Time-->

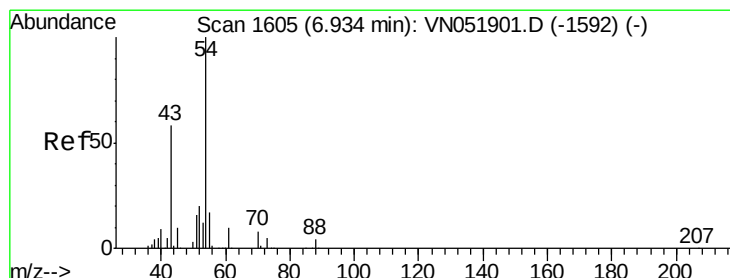


Abundance Ion 74.90 (74.60 to 75.60): VN051955.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN051955.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN051955.D (-1779) (-)

Time-->



#37

Ethyl Acetate

Concen: Below Cal

RT: 6.96 min Scan# 1612

Delta R.T. 0.02 min

Lab File: VN051955.D

Acq: 19 Oct 2018 18:28

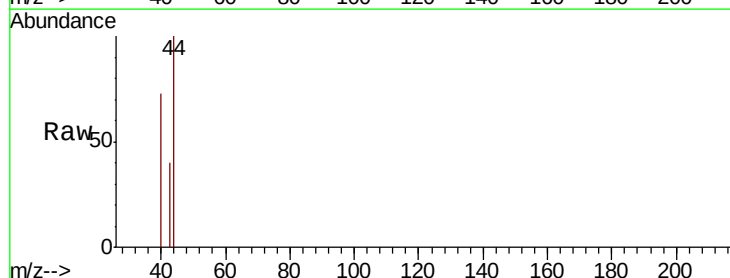
Tgt Ion: 43 Resp: 339

Ion Ratio Lower Upper

43 100

61 0.0 13.0 19.6#

70 0.0 10.4 15.6#

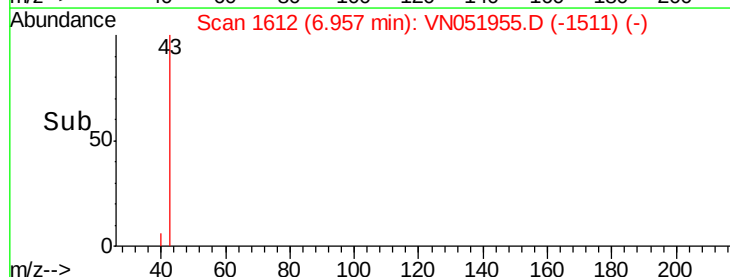


Abundance Ion 43.00 (42.70 to 43.70): VN051901.D (-1592) (-)

Ion 60.90 (60.60 to 61.60): VN051901.D (-1592) (-)

Ion 70.00 (69.70 to 70.70): VN051901.D (-1592) (-)

Time-->

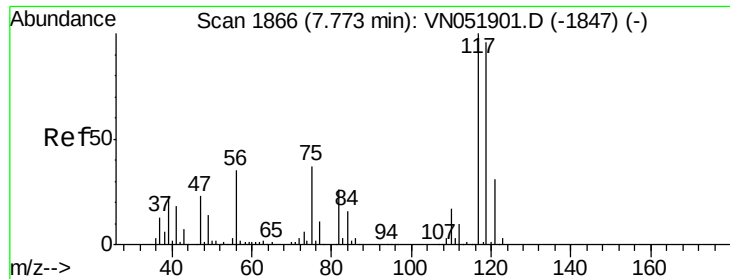


Abundance Ion 43.00 (42.70 to 43.70): VN051955.D (-1511) (-)

Ion 60.90 (60.60 to 61.60): VN051955.D (-1511) (-)

Ion 70.00 (69.70 to 70.70): VN051955.D (-1511) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 6.748 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051955.D

Acq: 19 Oct 2018 18:28

Instrument :

MSVOA_N

ClientSampleId :

CNS01

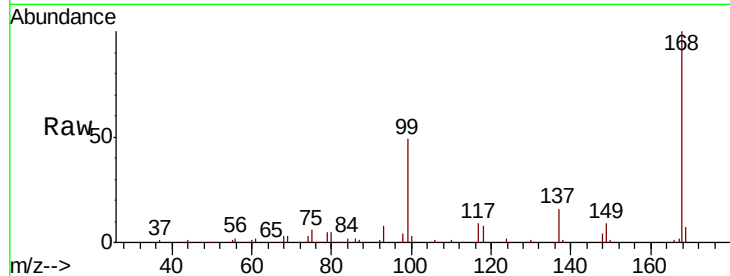
Tot Ion:117 Resp: 84886

Ion Ratio Lower Upper

117 100

119 3.8 77.0 115.6#

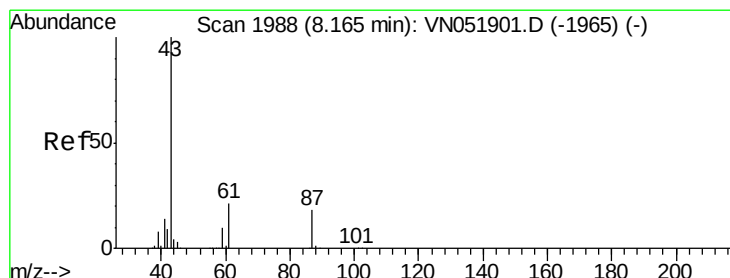
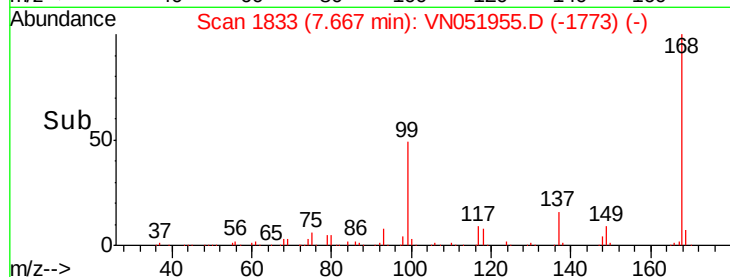
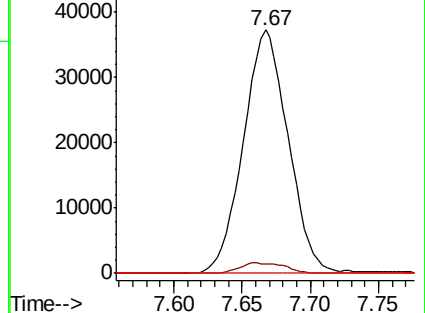
121 0.0 25.1 37.7#



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: Below Cal

RT: 8.16 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VN051955.D

Acq: 19 Oct 2018 18:28

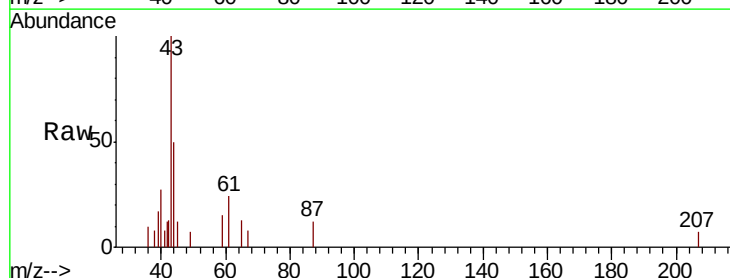
Tgt Ion: 43 Resp: 3946

Ion Ratio Lower Upper

43 100

61 27.4 24.9 37.3

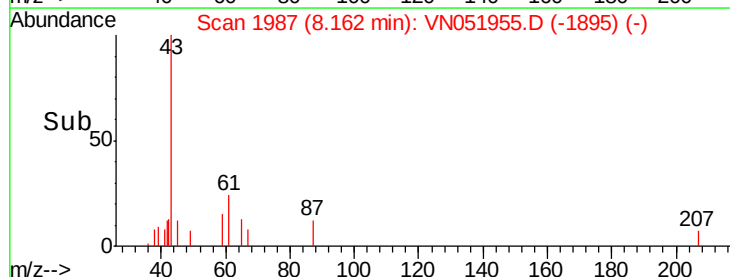
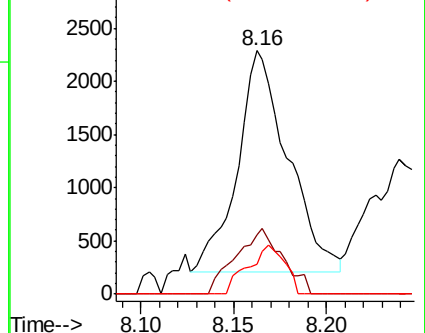
87 16.0 14.6 22.0

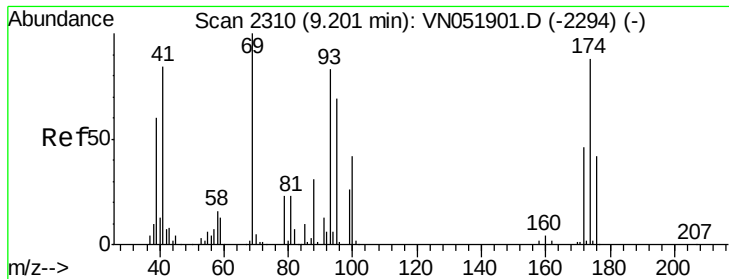


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#49

1,4-Dioxane

Concen: 0.745 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. -0.00 min

Lab File: VN051955.D

Acq: 19 Oct 2018 18:28

Instrument :

MSVOA_N

ClientSampleId :

CNS01

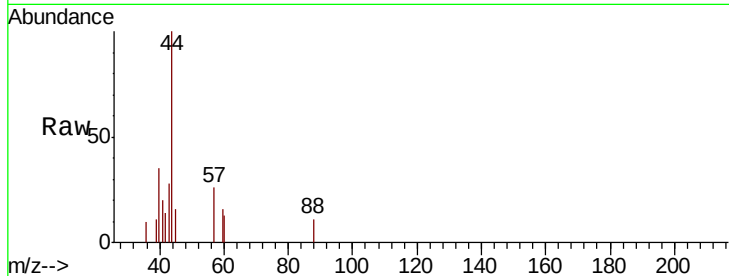
Tot Ion: 88 Resp: 61

Ion Ratio Lower Upper

88 100

43 732.8 19.7 29.5#

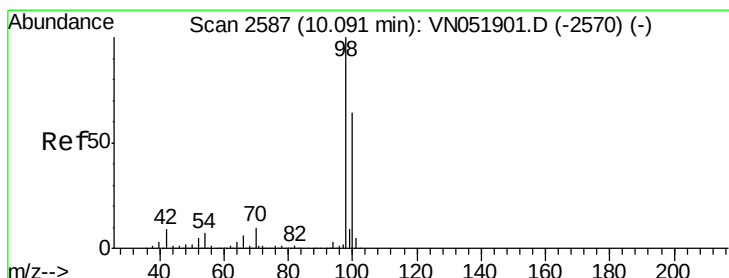
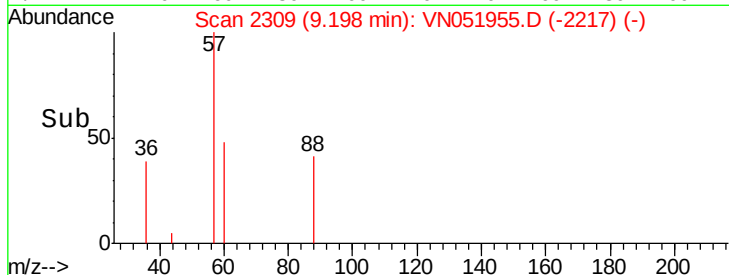
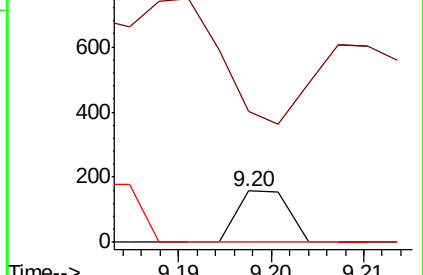
58 0.0 42.6 64.0#



Abundance Ion 88.00 (87.70 to 88.70): VN051901.D (-2294) (-)

Ion 43.00 (42.70 to 43.70): VN051901.D (-2294) (-)

Ion 58.00 (57.70 to 58.70): VN051901.D (-2294) (-)



#50

Toluene-d8

Concen: 0.745 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051955.D

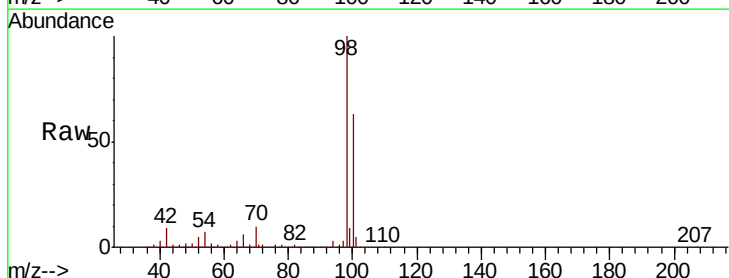
Acq: 19 Oct 2018 18:28

Tgt Ion: 98 Resp: 1905964

Ion Ratio Lower Upper

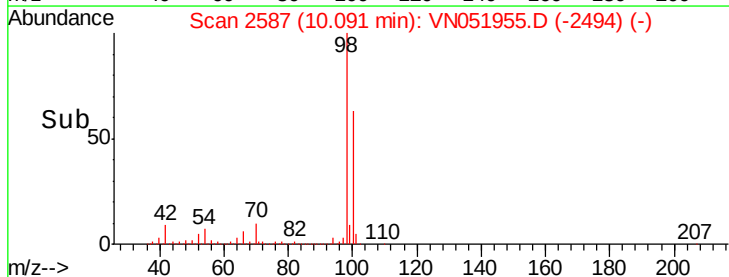
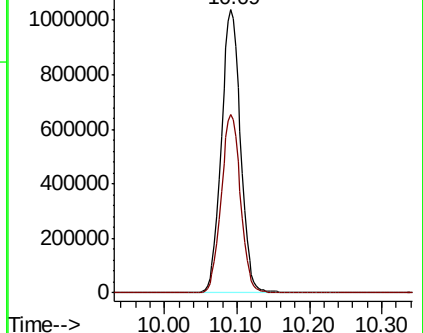
98 100

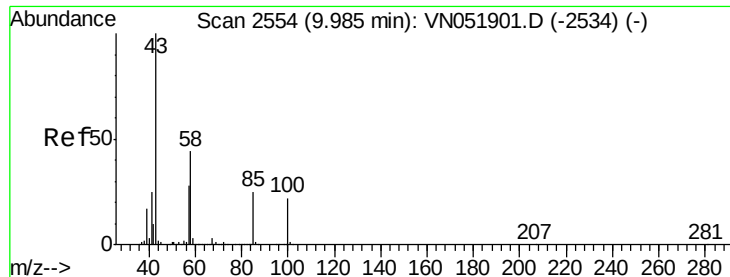
100 63.5 51.0 76.4



Abundance Ion 98.00 (97.70 to 98.70): VN051901.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN051901.D (-2570) (-)





#51

4-Methyl-2-Pentanone

Concen: 2.158 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN051955.D

Acq: 19 Oct 2018 18:28

Instrument :

MSVOA_N

ClientSampled :

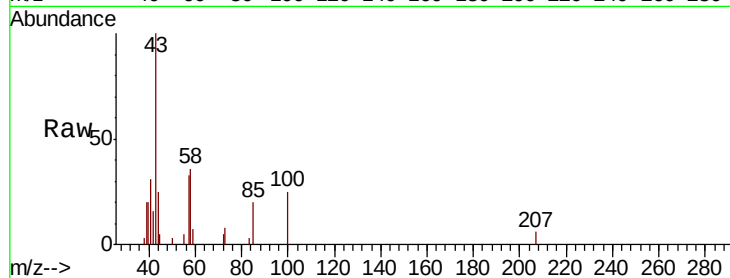
CNS01

Tot Ion: 43 Resp: 10732

Ion Ratio Lower Upper

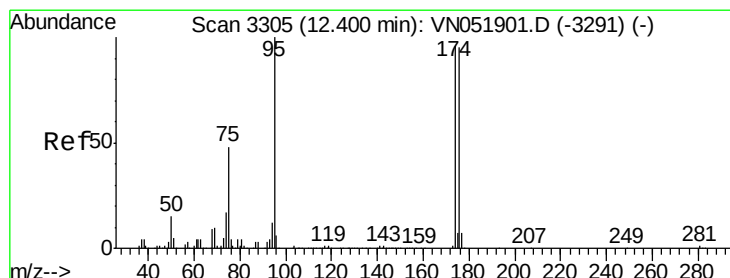
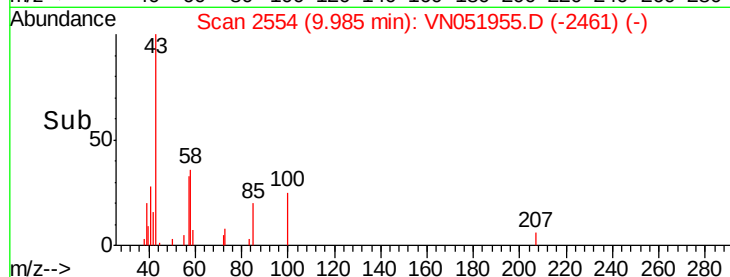
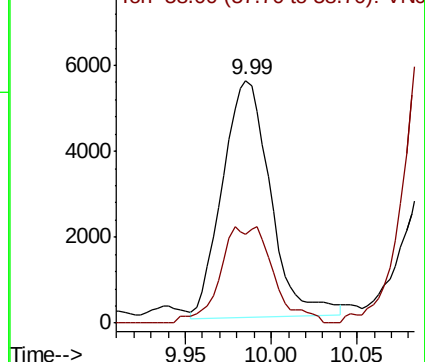
43 100

58 23.2 34.6 52.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN051955.D

Acq: 19 Oct 2018 18:28

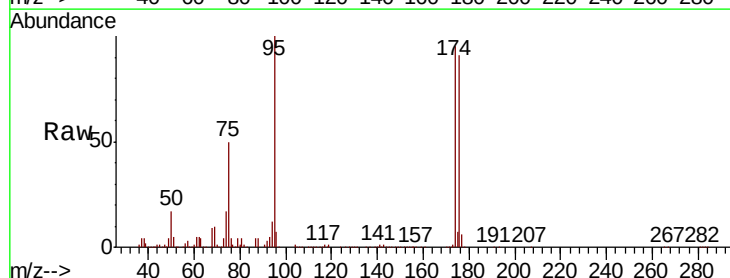
Tgt Ion: 95 Resp: 597224

Ion Ratio Lower Upper

95 100

174 96.4 0.0 195.0

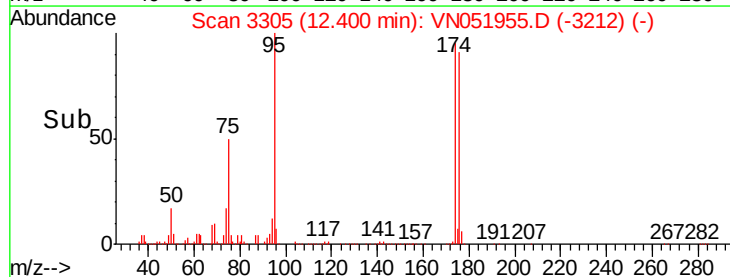
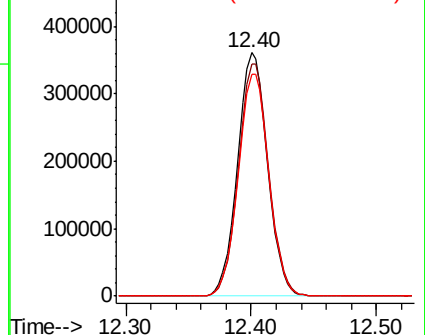
176 93.3 0.0 191.4

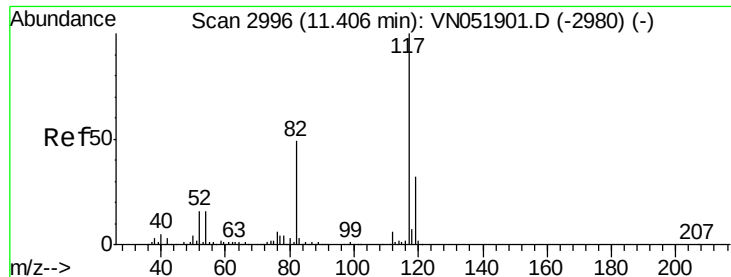


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

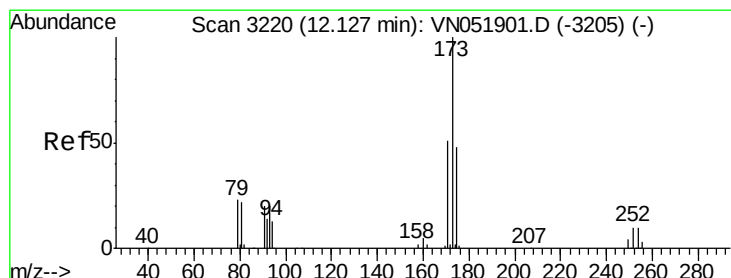
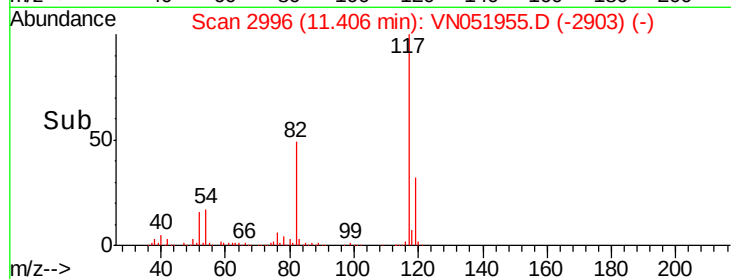
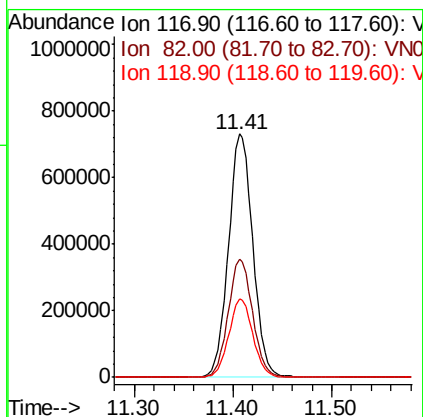
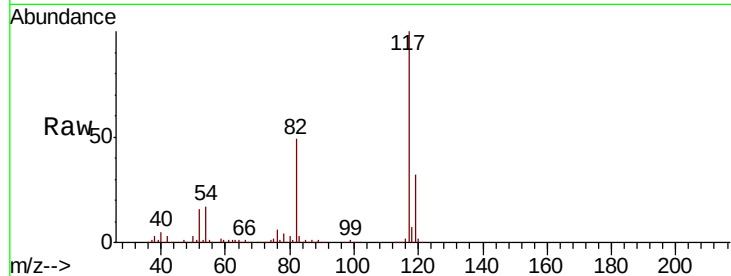




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN051955.D
Acq: 19 Oct 2018 18:28

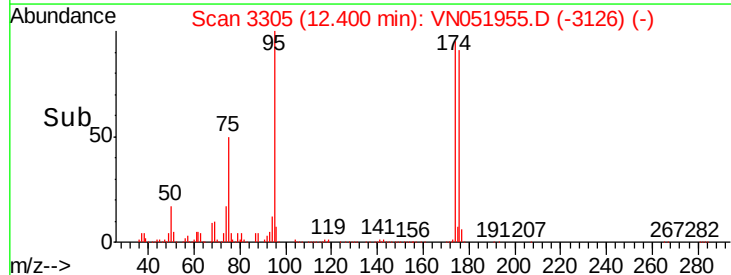
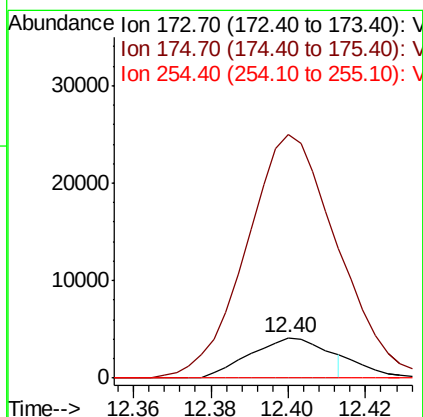
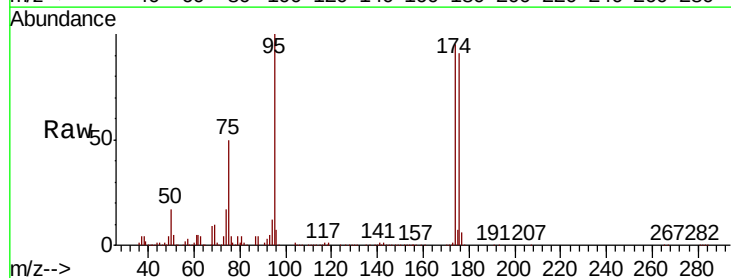
Instrument :
MSVOA_N
ClientSampled :
CNS01

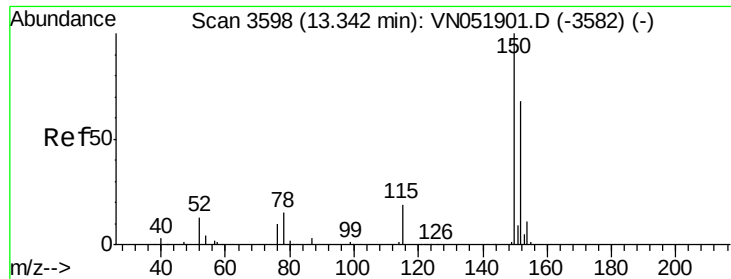
Tot Ion:117 Resp: 1261900
Ion Ratio Lower Upper
117 100
82 48.5 38.9 58.3
119 32.1 25.9 38.9



#71
Bromoform
Concen: 3.990 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN051955.D
Acq: 19 Oct 2018 18:28

Tgt Ion:173 Resp: 5708
Ion Ratio Lower Upper
173 100
175 625.6 24.0 72.0#
254 0.0 0.2 0.2#



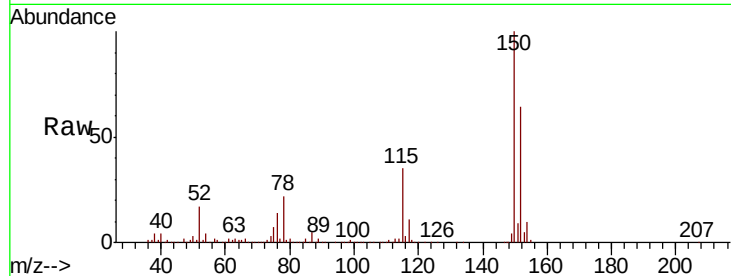


#72

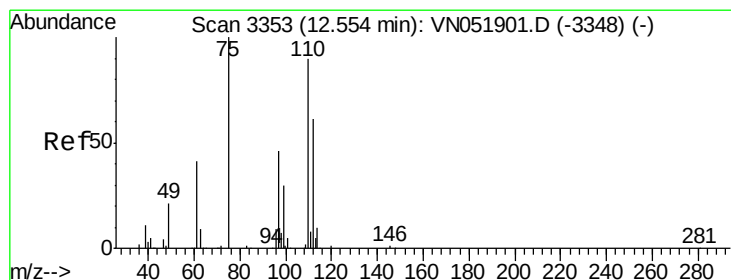
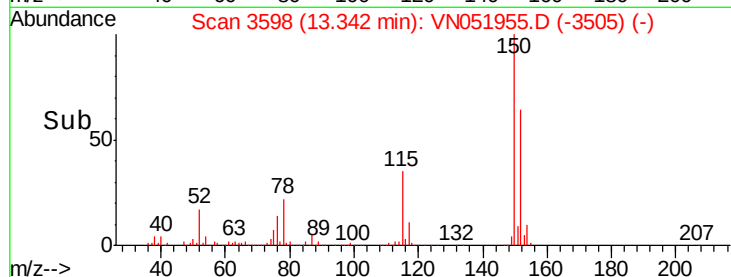
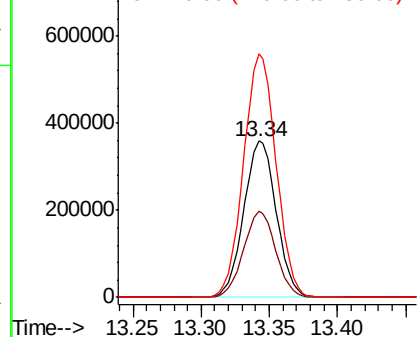
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN051955.D
Acq: 19 Oct 2018 18:28

Instrument :
MSVOA_N
ClientSampled :
CNS01

Tot Ion:152 Resp: 592876
Ion Ratio Lower Upper
152 100
115 54.5 26.7 80.1
150 155.9 0.0 346.4



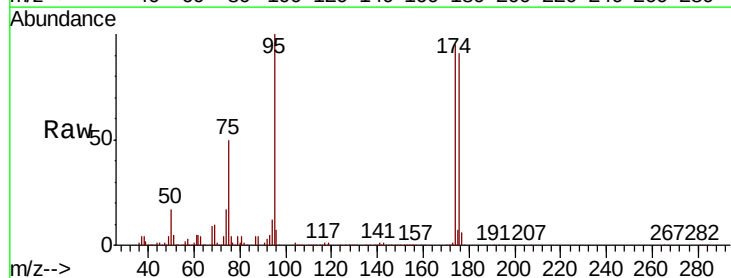
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



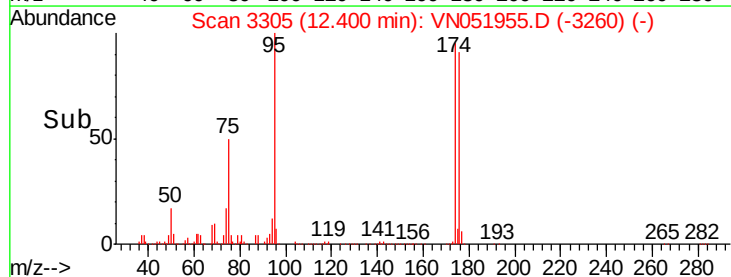
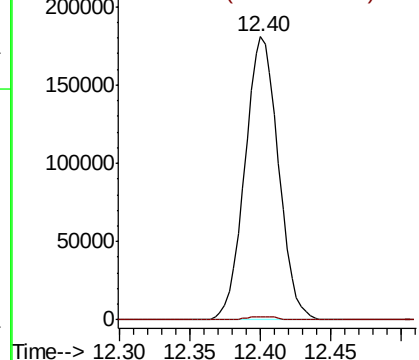
#76

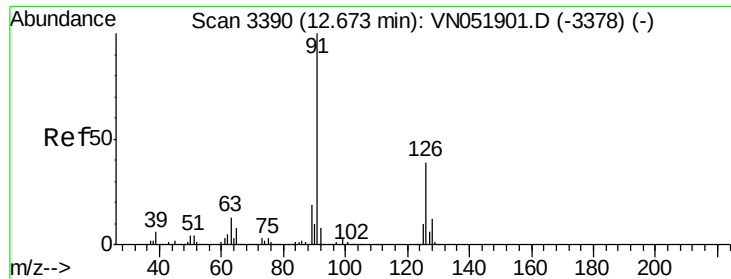
1,2,3-Trichloropropane
Concen: 41.821 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN051955.D
Acq: 19 Oct 2018 18:28

Tgt Ion: 75 Resp: 301362
Ion Ratio Lower Upper
75 100
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 77.00 (76.70 to 77.70): V

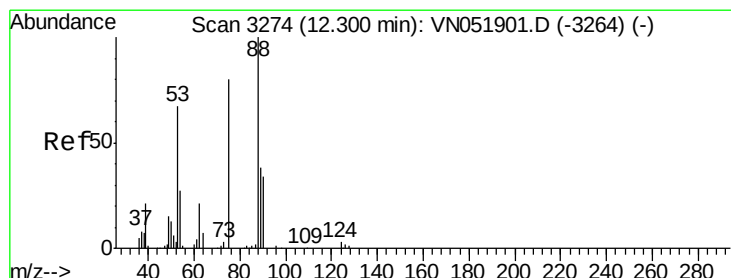
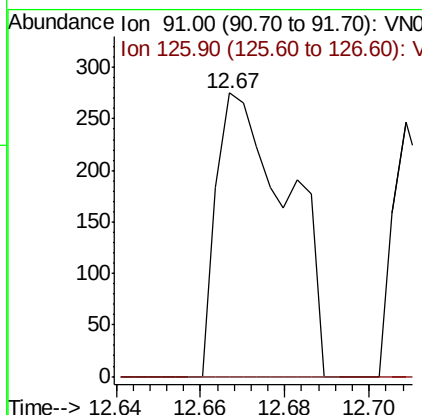
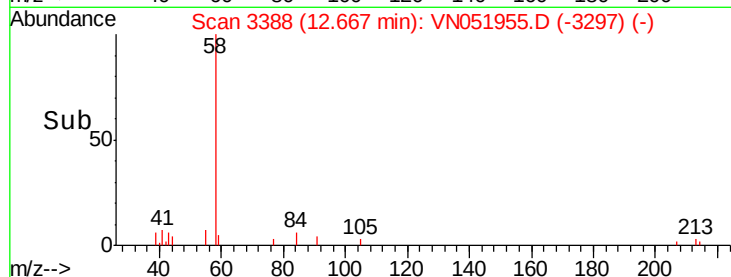
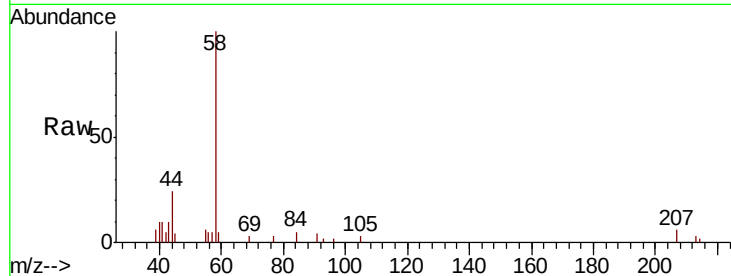




#79
2-Chlorotoluene
Concen: Below Cal
RT: 12.67 min Scan# 3388
Delta R.T. -0.01 min
Lab File: VN051955.D
Acq: 19 Oct 2018 18:28

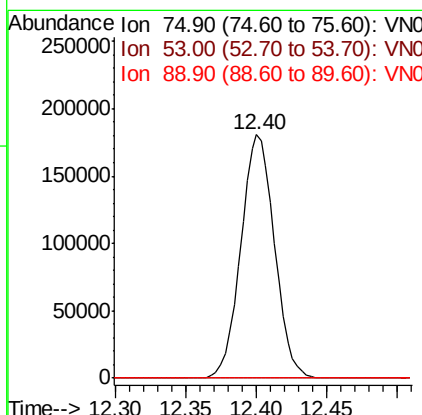
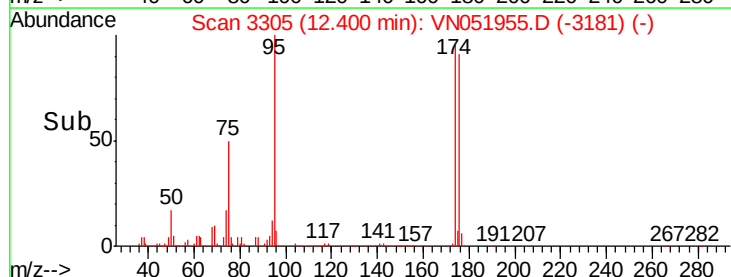
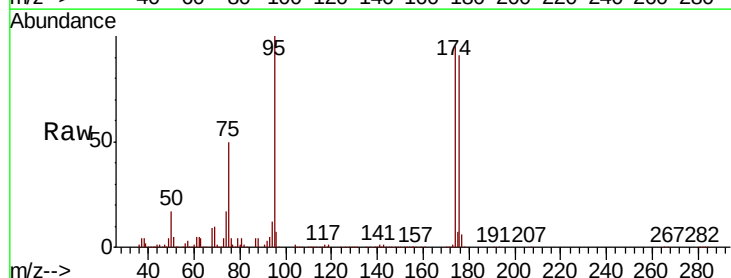
Instrument :
MSVOA_N
ClientSampleId :
CNS01

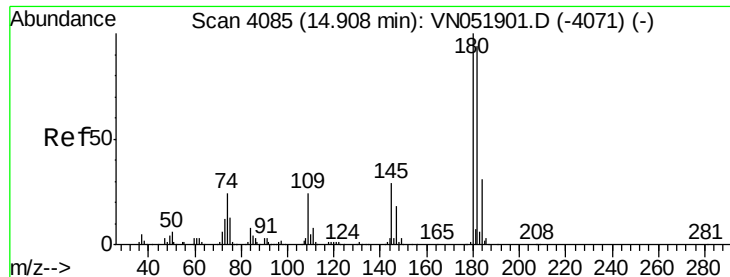
Tot Ion: 91 Resp: 320
Ion Ratio Lower Upper
91 100
126 0.0 19.6 58.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 137.460 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.10 min
Lab File: VN051955.D
Acq: 19 Oct 2018 18:28

Tgt Ion: 75 Resp: 301362
Ion Ratio Lower Upper
75 100
53 0.1 68.5 102.7#
89 0.0 39.0 58.6#

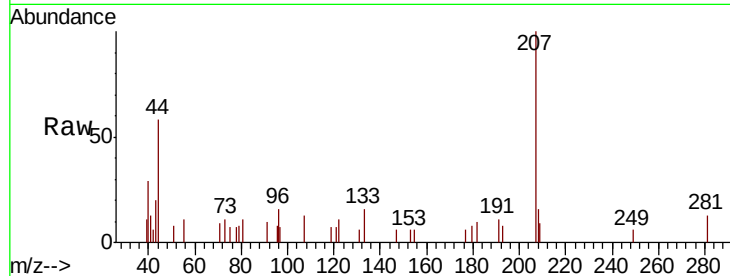




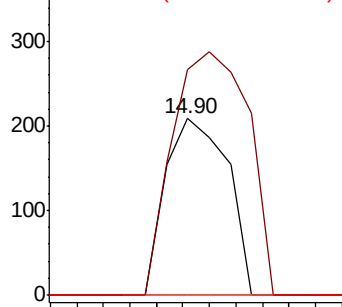
#93
 1,2,4-Trichlorobenzene
 Concen: 4.074 ug/l
 RT: 14.90 min Scan# 4084
 Delta R.T. -0.00 min
 Lab File: VN051955.D
 Acq: 19 Oct 2018 18:28

Instrument :
 MSVOA_N
 ClientSampled :
 CNS01

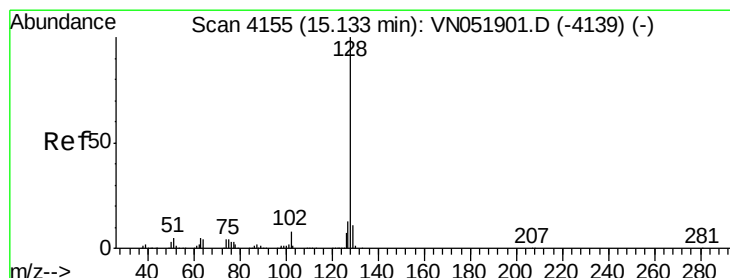
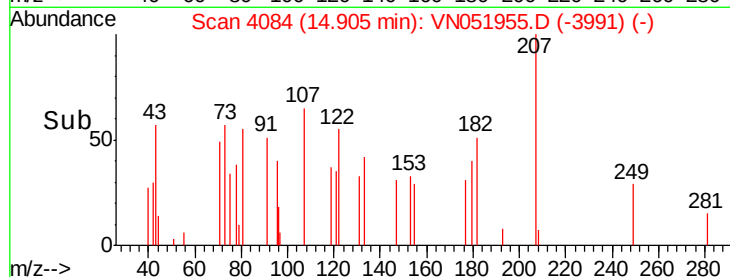
Tot Ion:180 Resp: 136
 Ion Ratio Lower Upper
 180 100
 182 169.1 47.3 141.9#
 145 0.0 14.5 43.5#



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

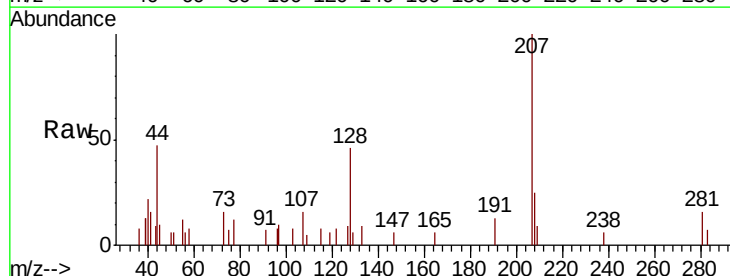


Time-->

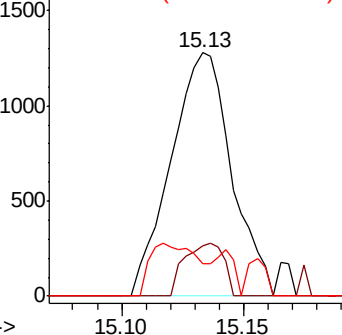


#95
 Naphthalene
 Concen: 4.165 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. 0.00 min
 Lab File: VN051955.D
 Acq: 19 Oct 2018 18:28

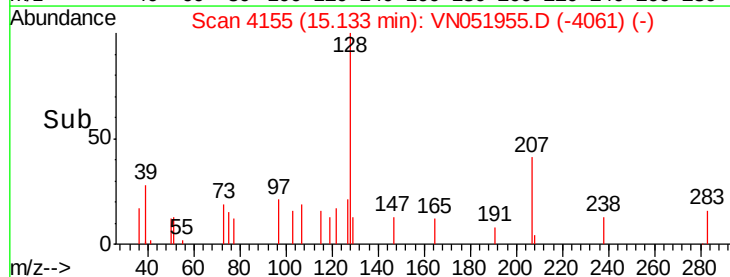
Tgt Ion:128 Resp: 2204
 Ion Ratio Lower Upper
 128 100
 127 14.0 10.2 15.2
 129 5.6 8.5 12.7#

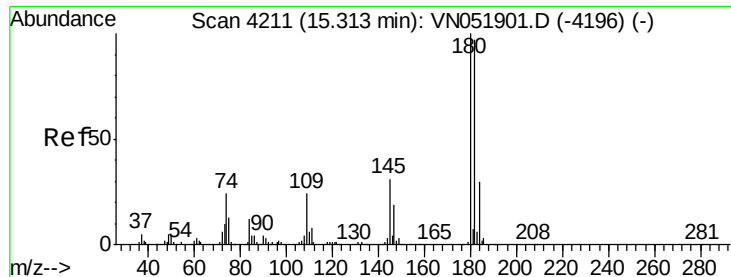


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V



Time-->

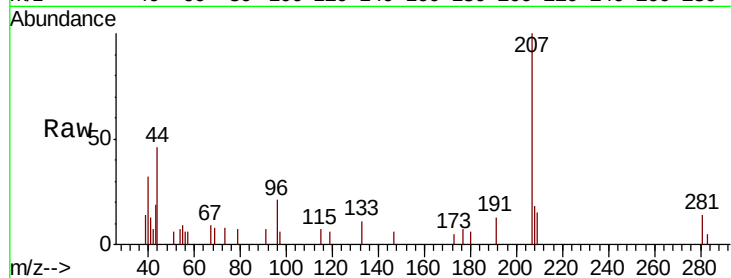




#96
 1,2,3-Trichlorobenzene
 Concen: 2.920 ug/l
 RT: 15.32 min Scan# 4214
 Delta R.T. 0.01 min
 Lab File: VN051955.D
 Acq: 19 Oct 2018 18:28

Instrument :
 MSVOA_N
 ClientSampleId :
 CNS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	109.7	47.9	143.8
145	182.3	15.2	45.6



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

