

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091918\
 Data File : VN051319.D
 Acq On : 19 Sep 2018 15:14
 Operator : MD\SY
 Sample : J4937-03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

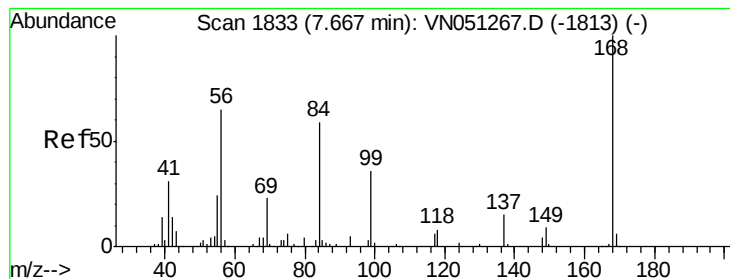
Quant Time: Sep 20 01:43:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091718W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 18 06:04:06 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	542010	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	812098	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	675516	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	207217	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	306752	52.08	ug/l	0.00
Spiked Amount			Recovery	=	104.16%	
35) Dibromofluoromethane	7.59	113	312368	49.50	ug/l	0.00
Spiked Amount			Recovery	=	99.00%	
50) Toluene-d8	10.09	98	1100298	47.17	ug/l	0.00
Spiked Amount			Recovery	=	94.34%	
62) 4-Bromofluorobenzene	12.40	95	279304	37.65	ug/l	0.00
Spiked Amount			Recovery	=	75.30%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	1956	Below Cal		93
5) Bromomethane	2.58	94	1713	0.93 ug/l		90
10) Methyl Iodide	3.97	142	205	6.14 ug/l #		43
16) Acetone	3.83	43	3448	Below Cal		92
17) Carbon Disulfide	4.05	76	1638	Below Cal		75
18) Methyl Acetate	4.35	43	2773	Below Cal		82
20) Methylene Chloride	4.55	84	1376	0.21 ug/l #		54
31) Cyclohexane	7.66	56	8042	0.78 ug/l #		1
36) 1,1-Dichloropropene	7.67	75	33406	3.80 ug/l #		49
38) Carbon Tetrachloride	7.67	117	45092	4.92 ug/l #		17
43) Isopropyl Acetate	8.28	43	35419	4.53 ug/l #		59
76) 1,2,3-Trichloropropane	12.40	75	128684	45.16 ug/l #		100
81) trans-1,4-Dichloro-2-buten	12.40	75	128684	137.93 ug/l #		15
88) 1,4-Dichlorobenzene	13.36	146	199	0.44 ug/l #		1
89) n-Butylbenzene	13.35	91	481	2.06 ug/l #		46
91) 1,2-Dichlorobenzene	13.65	146	359	Below Cal		25
93) 1,2,4-Trichlorobenzene	14.91	180	153	5.07 ug/l #		29
95) Naphthalene	15.14	128	700	6.02 ug/l #		69
96) 1,2,3-Trichlorobenzene	15.32	180	180	3.91 ug/l #		68

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN051319.D

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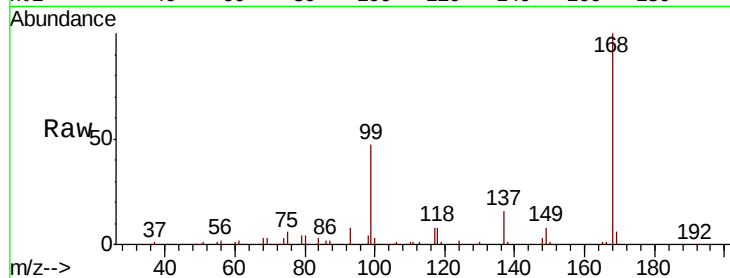
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 542010

Ion Ratio Lower Upper

168 100

99 47.4 38.2 57.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

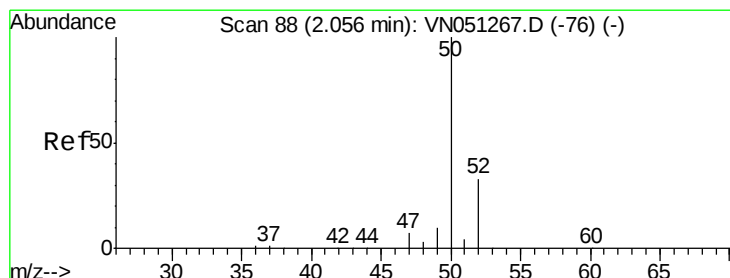
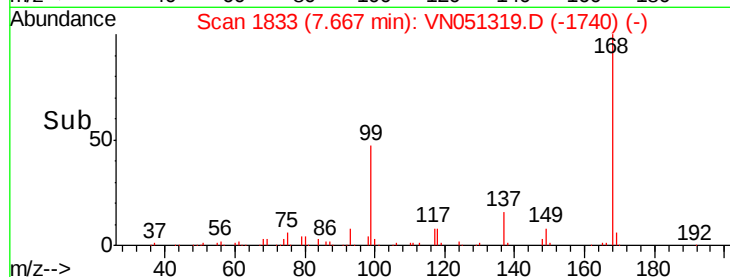
150000

100000

50000

0

Time--> 7.50 7.60 7.70 7.80 7.90



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN051319.D

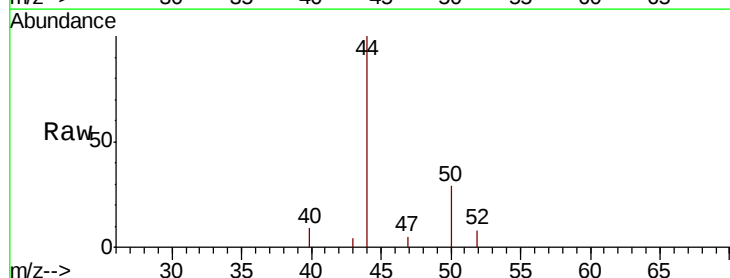
Acq: 19 Sep 2018 15:14

Tgt Ion: 50 Resp: 1956

Ion Ratio Lower Upper

50 100

52 29.1 26.6 40.0



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.06

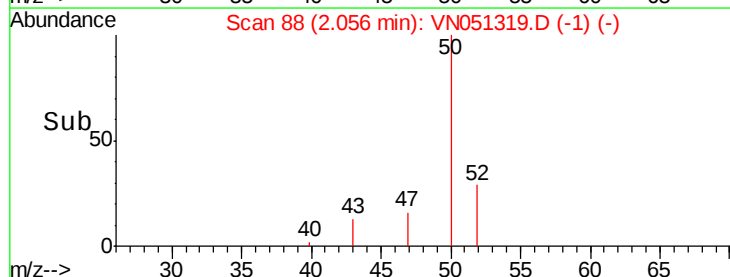
1500

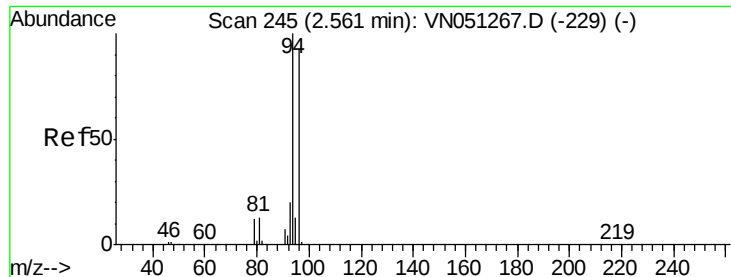
1000

500

0

Time--> 2.02 2.04 2.06 2.08 2.10





#5

Bromomethane

Concen: 0.93 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.02 min

Lab File: VN051319.D

Acq: 19 Sep 2018 15:14

Instrument :

MSVOA_N

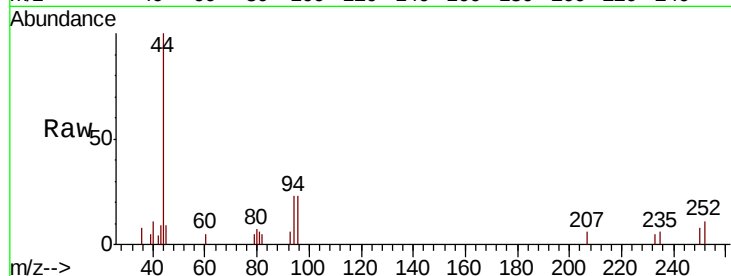
ClientSampleId :

Tot Ion: 94 Resp: 1713

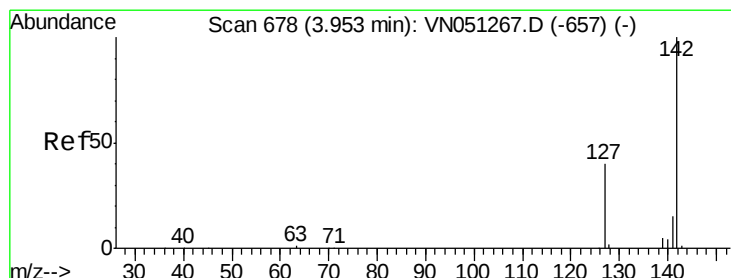
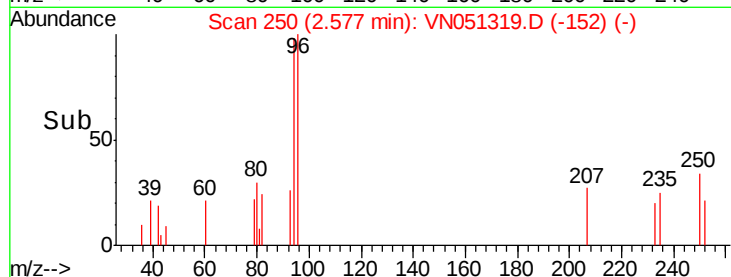
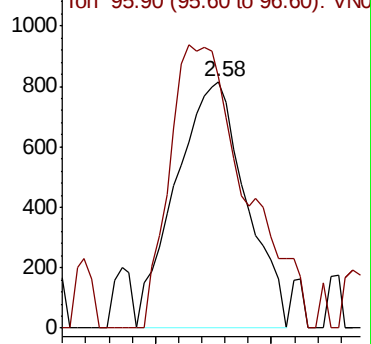
Ion Ratio Lower Upper

94 100

96 101.7 73.8 110.8



Abundance Ion 93.90 (93.60 to 94.60): VN051319.D (-152) (-)



#10

Methyl Iodide

Concen: 6.14 ug/l

RT: 3.97 min Scan# 682

Delta R.T. 0.01 min

Lab File: VN051319.D

Acq: 19 Sep 2018 15:14

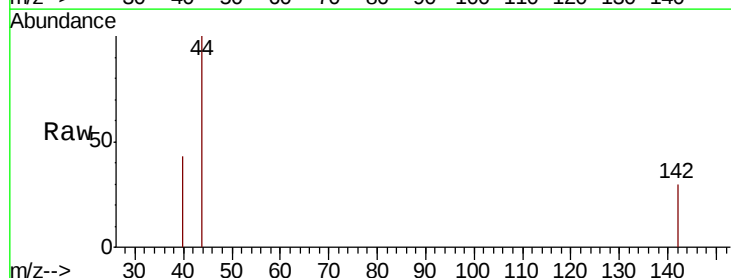
Tgt Ion: 142 Resp: 205

Ion Ratio Lower Upper

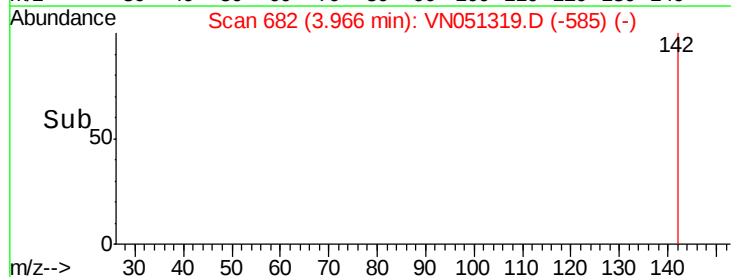
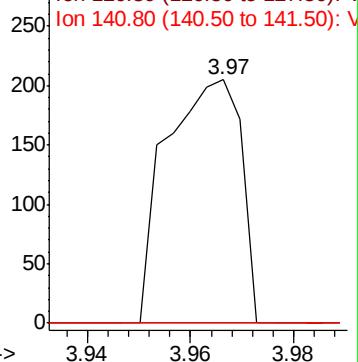
142 100

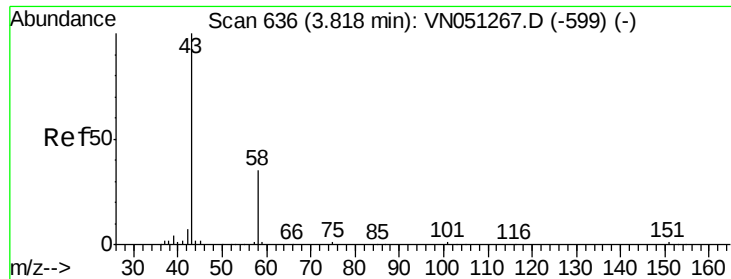
127 0.0 31.7 47.5#

141 0.0 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): VN051319.D (-585) (-)

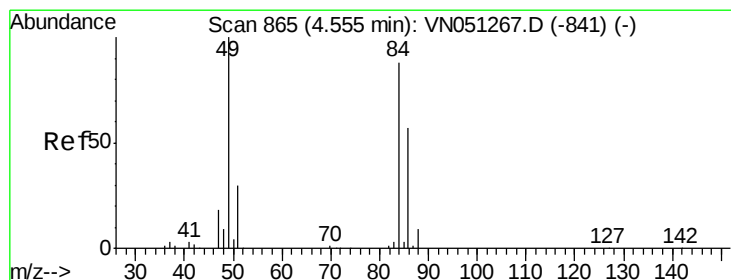
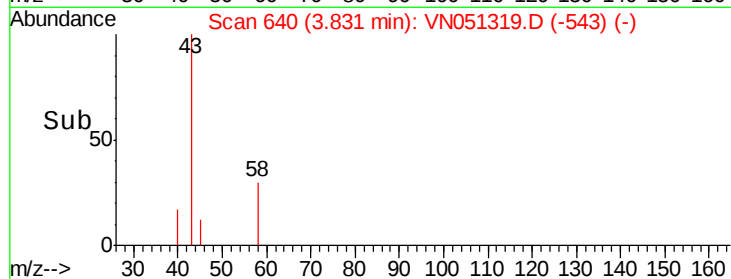
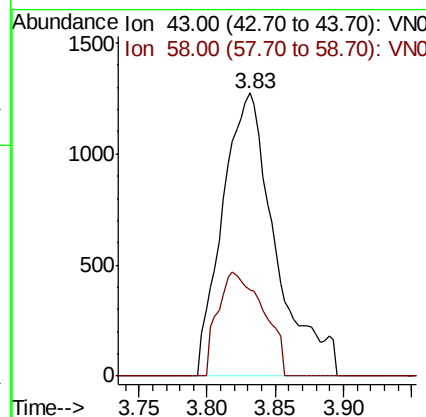
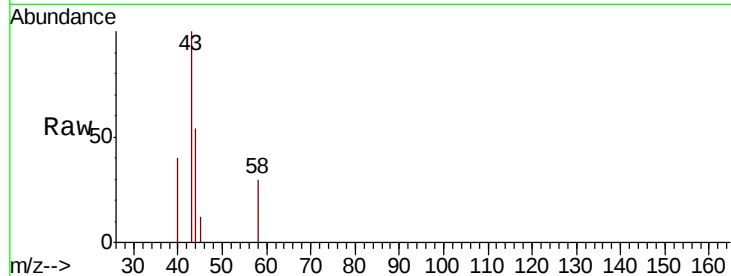




#16
Acetone
Concen: Below Cal
RT: 3.83 min Scan# 640
Delta R.T. 0.01 min
Lab File: VN051319.D
Acq: 19 Sep 2018 15:14

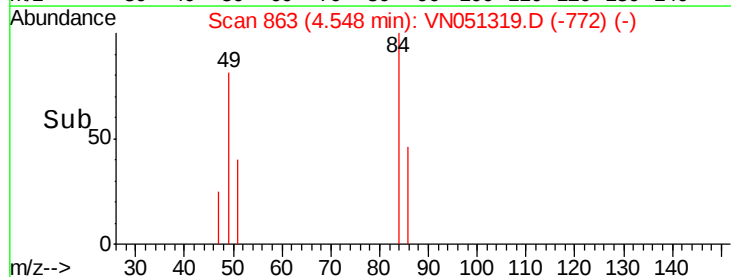
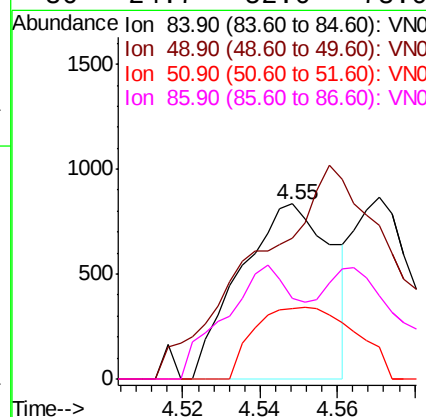
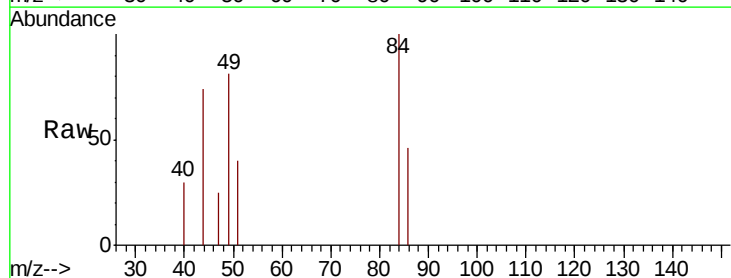
Instrument :
MSVOA_N
ClientSampled :

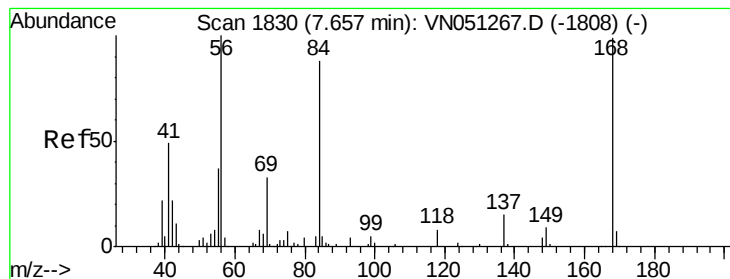
Tot Ion: 43 Resp: 3448
Ion Ratio Lower Upper
43 100
58 30.3 28.2 42.2



#20
Methylene Chloride
Concen: 0.21 ug/l
RT: 4.55 min Scan# 863
Delta R.T. -0.01 min
Lab File: VN051319.D
Acq: 19 Sep 2018 15:14

Tgt Ion: 84 Resp: 1376
Ion Ratio Lower Upper
84 100
49 56.2 91.2 136.8#
51 40.0 27.7 41.5
86 24.7 52.0 78.0#





#31

Cyclohexane

Concen: 0.78 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051319.D

Acq: 19 Sep 2018 15:14

Instrument :

MSVOA_N

ClientSampled :

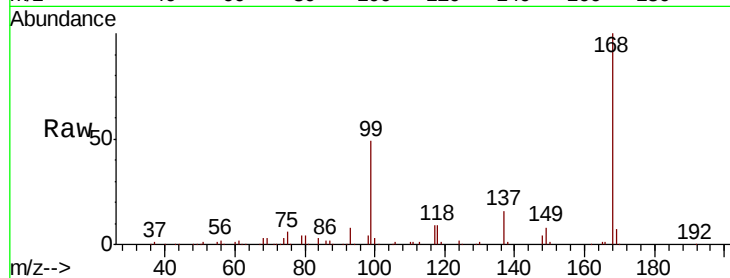
Tot Ion: 56 Resp: 8042

Ion Ratio Lower Upper

56 100

69 202.3 26.2 39.2#

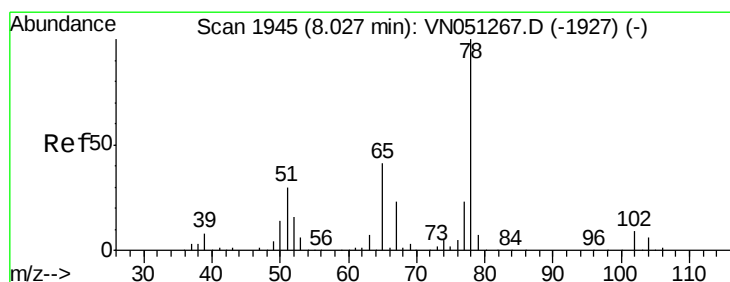
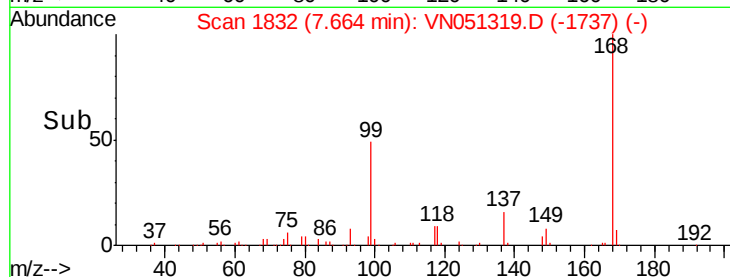
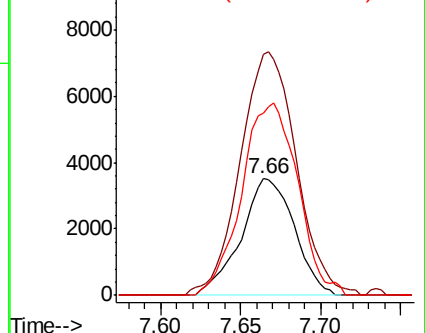
84 156.6 70.6 106.0#



Abundance Ion 56.00 (55.70 to 56.70): VN051319.D (-1808) (-)

Ion 69.00 (68.70 to 69.70): VN051319.D (-1808) (-)

Ion 84.00 (83.70 to 84.70): VN051319.D (-1808) (-)



#33

1,2-Dichloroethane-d4

Concen: 52.08 ug/l

RT: 8.03 min Scan# 1946

Delta R.T. 0.00 min

Lab File: VN051319.D

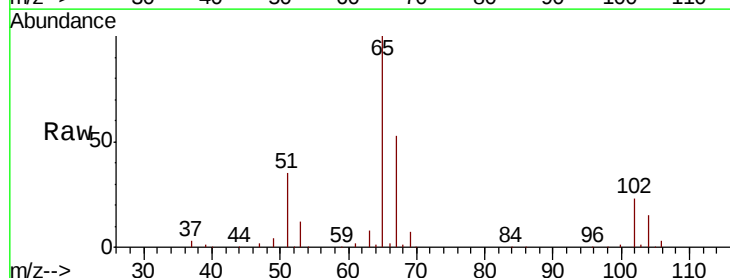
Acq: 19 Sep 2018 15:14

Tgt Ion: 65 Resp: 306752

Ion Ratio Lower Upper

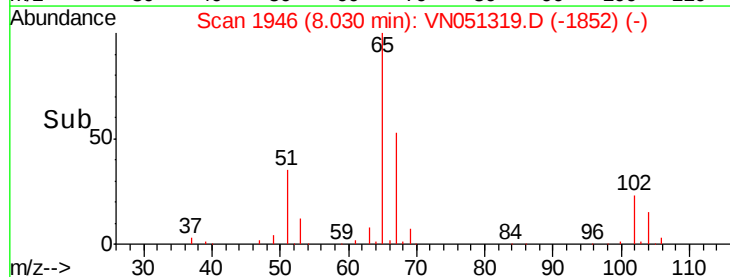
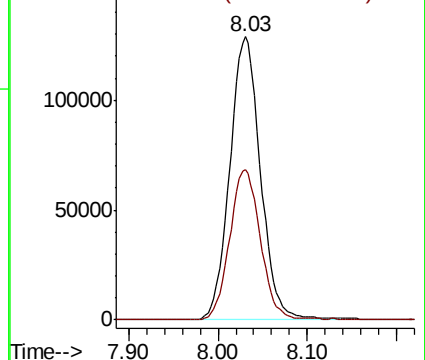
65 100

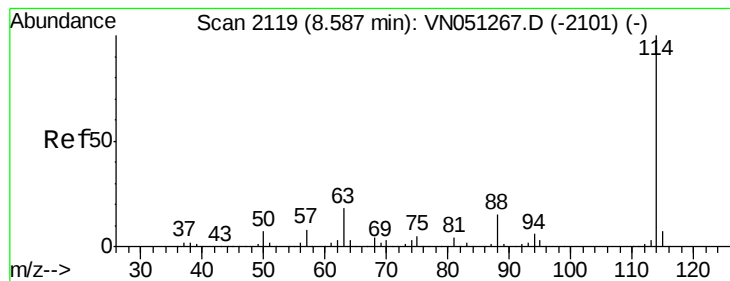
67 53.3 0.0 111.0



Abundance Ion 64.90 (64.60 to 65.60): VN051319.D (-1852) (-)

Ion 66.90 (66.60 to 67.60): VN051319.D (-1852) (-)





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN051319.D

Acq: 19 Sep 2018 15:14

Instrument :
MSVOA_N
ClientSampleId :

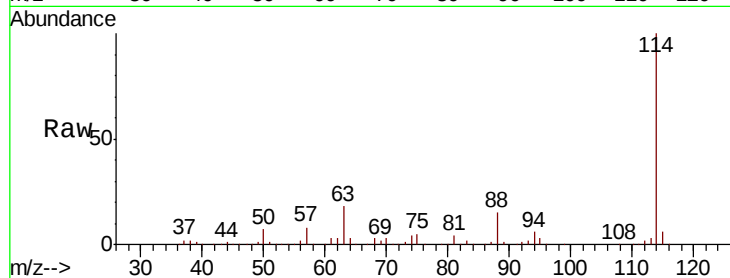
Tot Ion:114 Resp: 812098

Ion Ratio Lower Upper

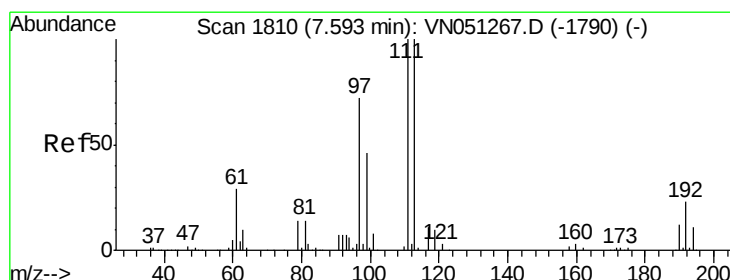
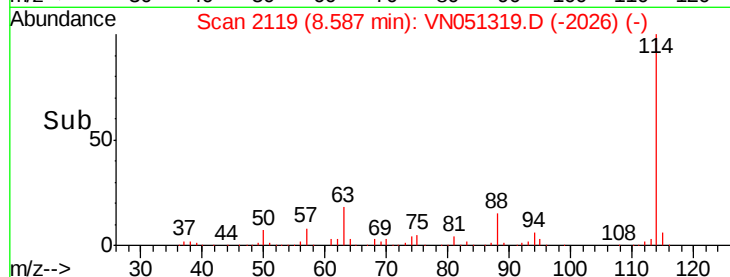
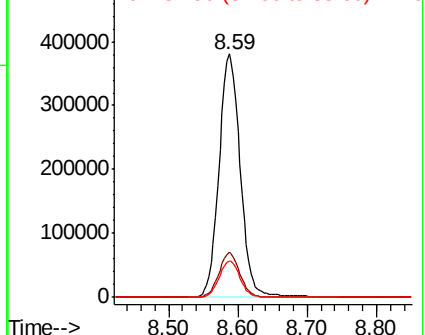
114 100

63 18.3 0.0 36.8

88 15.1 0.0 30.8



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: 49.50 ug/l

RT: 7.59 min Scan# 1810

Delta R.T. 0.00 min

Lab File: VN051319.D

Acq: 19 Sep 2018 15:14

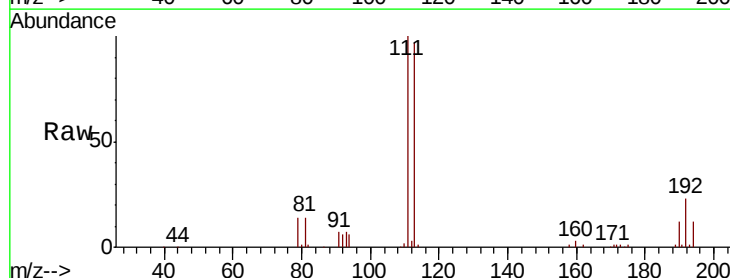
Tgt Ion:113 Resp: 312368

Ion Ratio Lower Upper

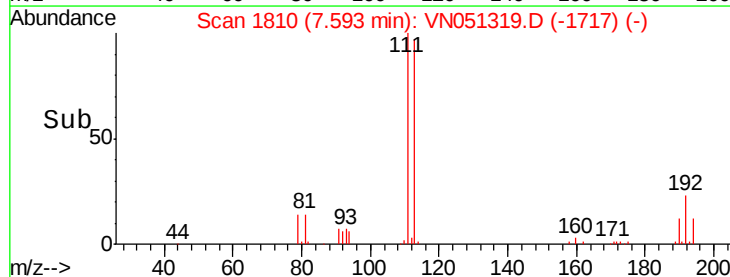
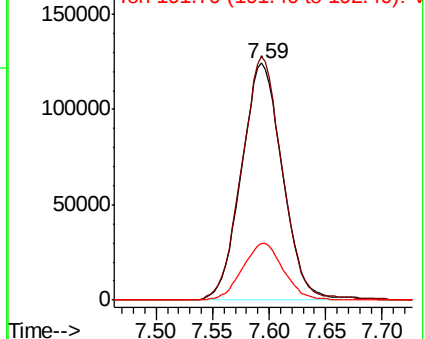
113 100

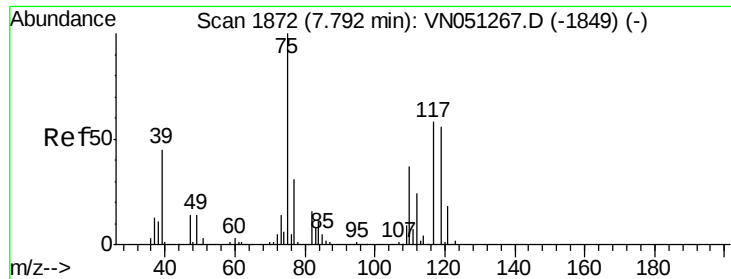
111 102.4 82.2 123.4

192 24.1 19.0 28.6



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

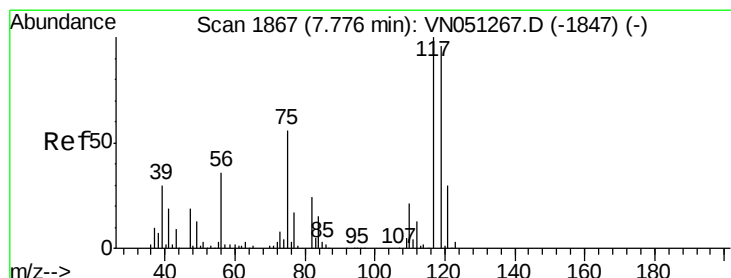
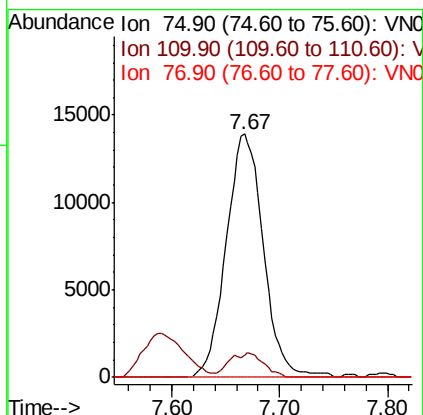
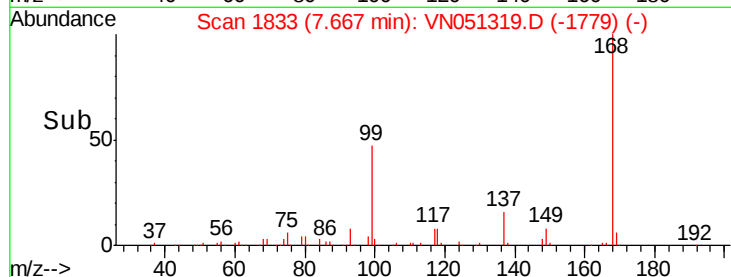
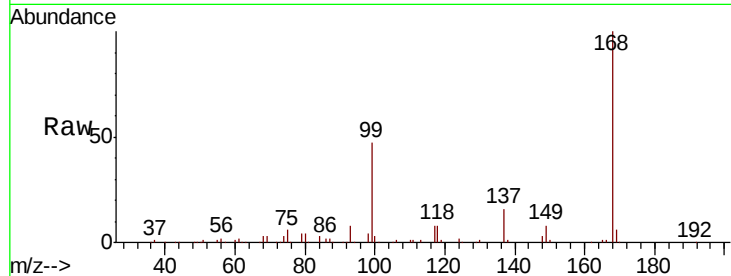




#36
 1,1-Dichloropropene
 Concen: 3.80 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051319.D
 Acq: 19 Sep 2018 15:14

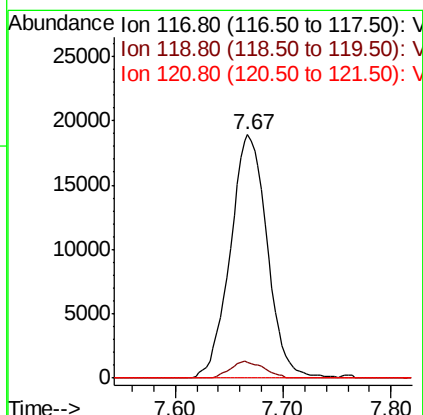
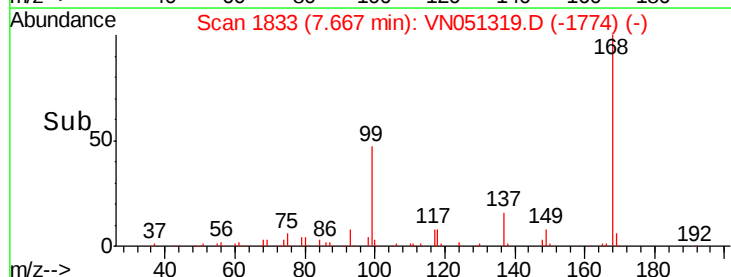
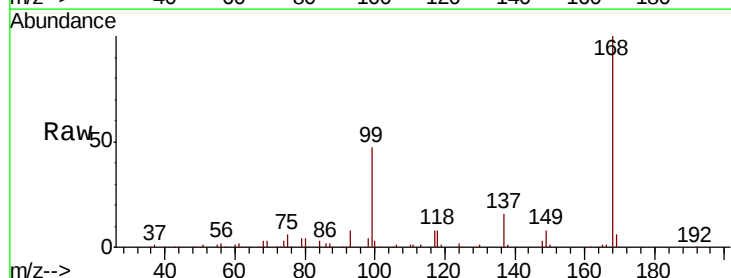
Instrument :
 MSVOA_N
 ClientSampled :

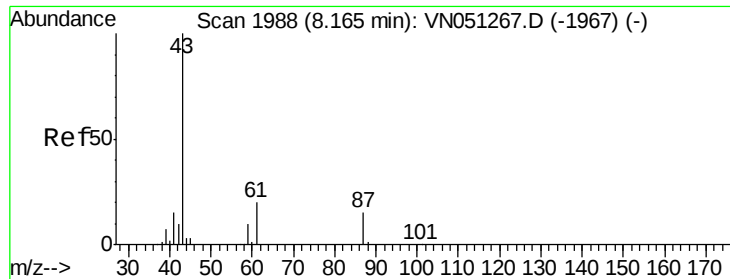
Tot Ion: 75 Resp: 33406
 Ion Ratio Lower Upper
 75 100
 110 9.3 18.6 56.0#
 77 0.0 24.7 37.1#



#38
 Carbon Tetrachloride
 Concen: 4.92 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.11 min
 Lab File: VN051319.D
 Acq: 19 Sep 2018 15:14

Tgt Ion: 117 Resp: 45092
 Ion Ratio Lower Upper
 117 100
 119 6.7 76.8 115.2#
 121 0.0 24.2 36.2#





#43

Isopropyl Acetate

Concen: 4.53 ug/l

RT: 8.28 min Scan# 2025

Delta R.T. 0.12 min

Lab File: VN051319.D

Acq: 19 Sep 2018 15:14

Instrument :

MSVOA_N

ClientSampleId :

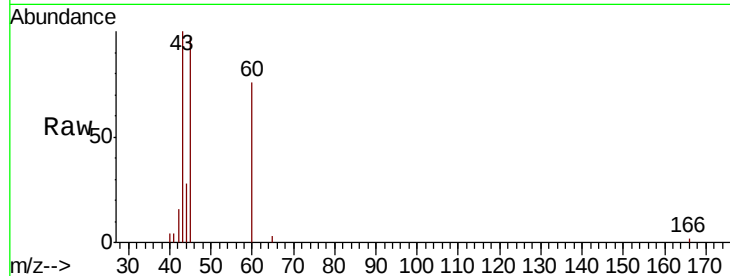
Tot Ion: 43 Resp: 35419

Ion Ratio Lower Upper

43 100

61 0.5 17.4 26.2#

87 0.0 12.2 18.4#

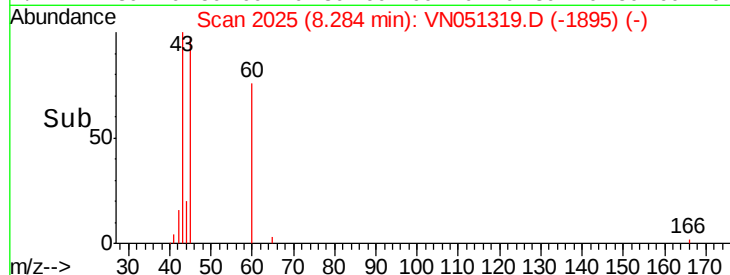


Abundance Ion 43.00 (42.70 to 43.70): VN051319.D (-1967) (-)

Ion 61.00 (60.70 to 61.70): VN051319.D (-1967) (-)

Ion 87.00 (86.70 to 87.70): VN051319.D (-1967) (-)

Time-->



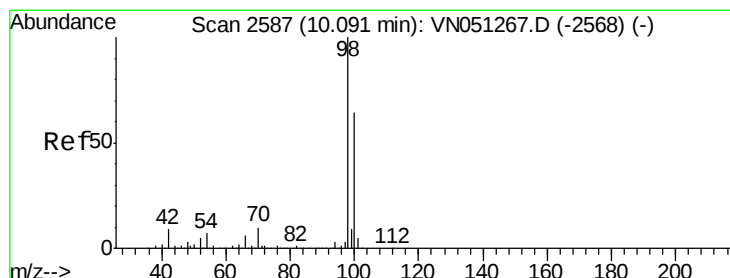
Abundance

Ion 43.00 (42.70 to 43.70): VN051319.D (-1895) (-)

Ion 61.00 (60.70 to 61.70): VN051319.D (-1895) (-)

Ion 87.00 (86.70 to 87.70): VN051319.D (-1895) (-)

Time-->



#50

Toluene-d8

Concen: 47.17 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051319.D

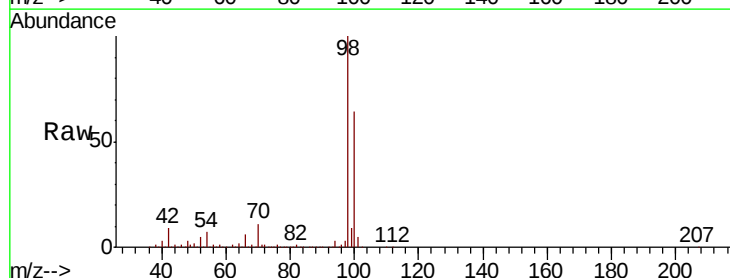
Acq: 19 Sep 2018 15:14

Tgt Ion: 98 Resp: 1100298

Ion Ratio Lower Upper

98 100

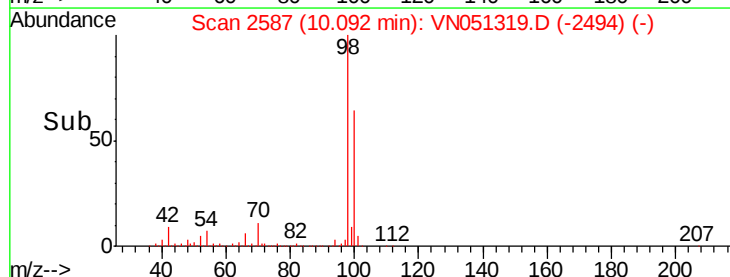
100 63.5 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN051319.D (-2568) (-)

Ion 100.00 (99.70 to 100.70): VN051319.D (-2568) (-)

Time-->

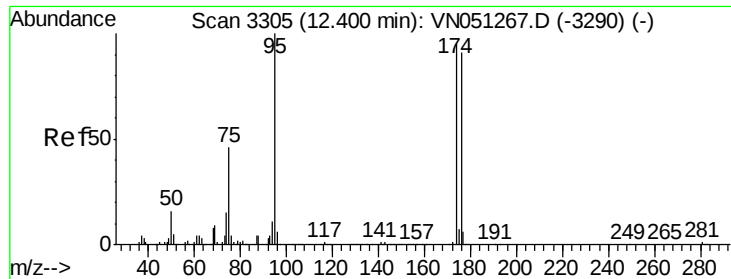


Abundance

Ion 98.00 (97.70 to 98.70): VN051319.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN051319.D (-2494) (-)

Time-->



#62

4-Bromofluorobenzene

Concen: 37.65 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN051319.D

Acq: 19 Sep 2018 15:14

Instrument :

MSVOA_N

ClientSampleId :

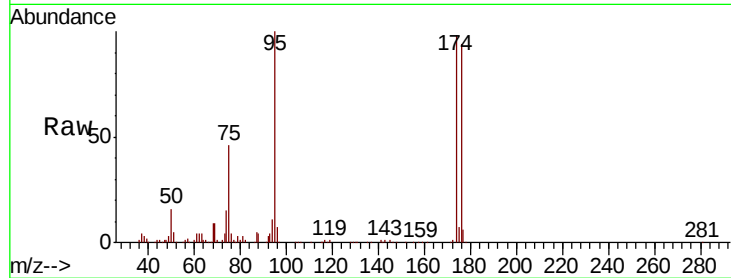
Tot Ion: 95 Resp: 279304

Ion Ratio Lower Upper

95 100

174 97.1 0.0 189.6

176 94.2 0.0 182.6



Abundance Ion 94.90 (94.60 to 95.60): VN051267.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN051267.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN051267.D (-3290) (-)

12.40

150000

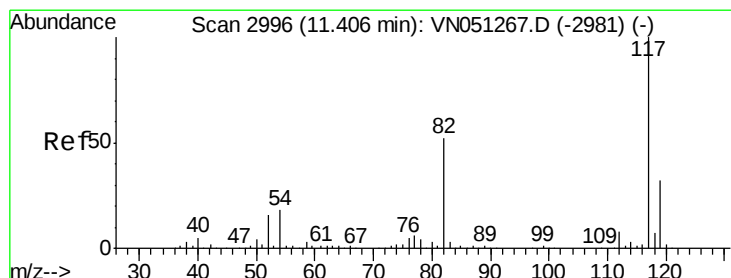
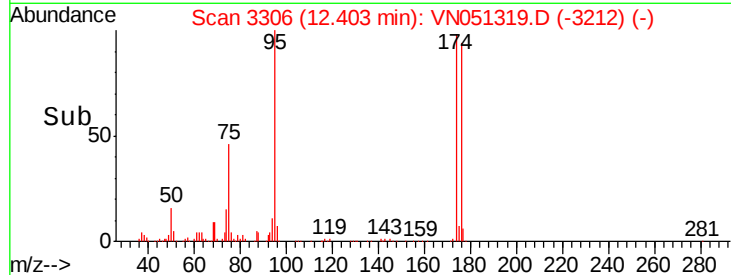
100000

50000

0

12.35 12.40 12.45

Time-->



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN051319.D

Acq: 19 Sep 2018 15:14

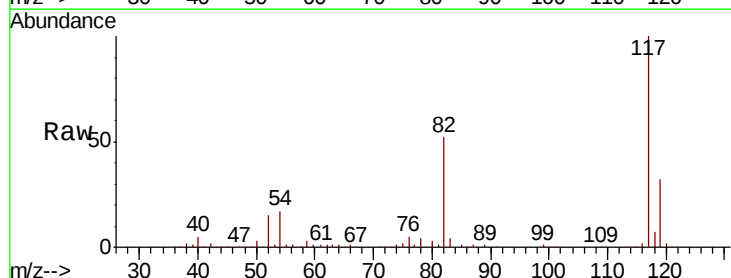
Tgt Ion: 117 Resp: 675516

Ion Ratio Lower Upper

117 100

82 51.6 41.8 62.8

119 32.4 25.6 38.4



Abundance Ion 116.90 (116.60 to 117.60): VN051267.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN051267.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN051267.D (-2981) (-)

11.41

500000

400000

300000

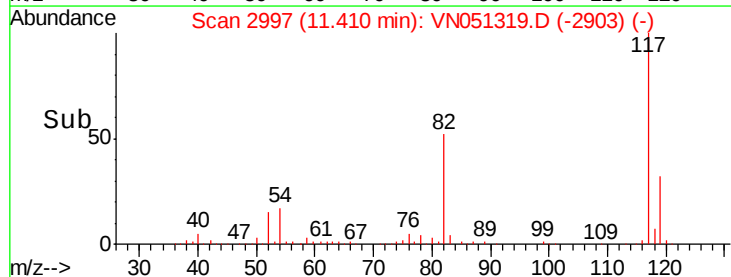
200000

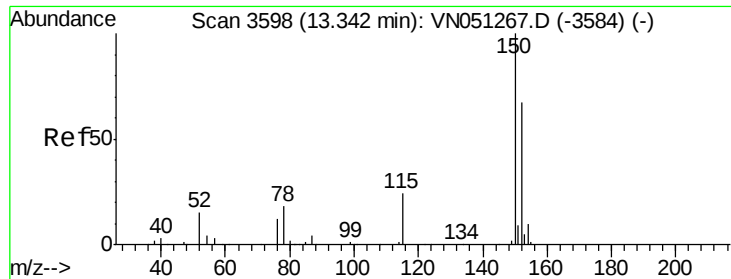
100000

0

11.30 11.40 11.50

Time-->



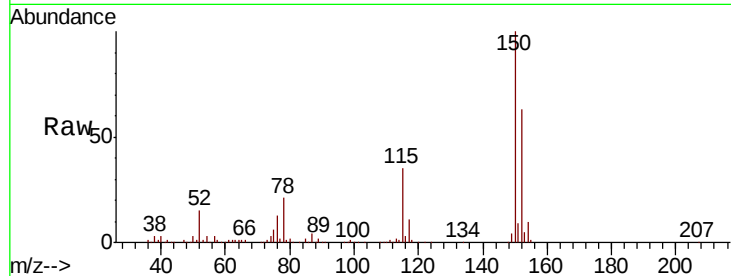


#72

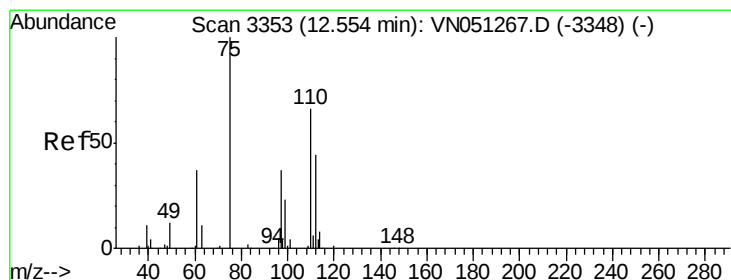
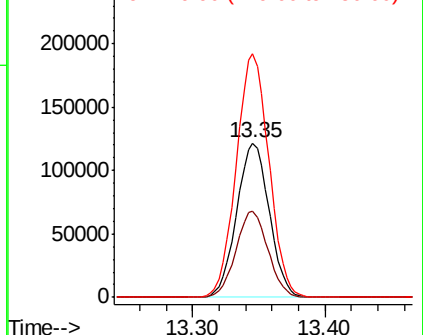
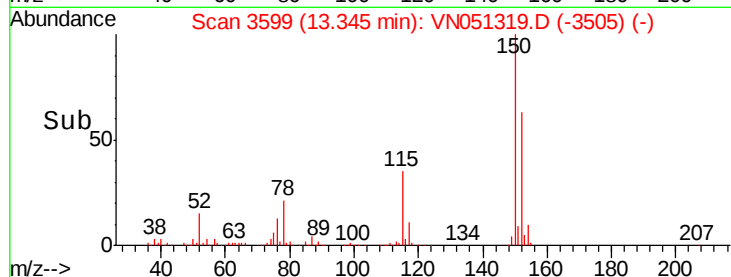
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051319.D
Acq: 19 Sep 2018 15:14

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:152 Resp: 207217
Ion Ratio Lower Upper
152 100
115 54.9 27.1 81.2
150 158.5 0.0 349.0



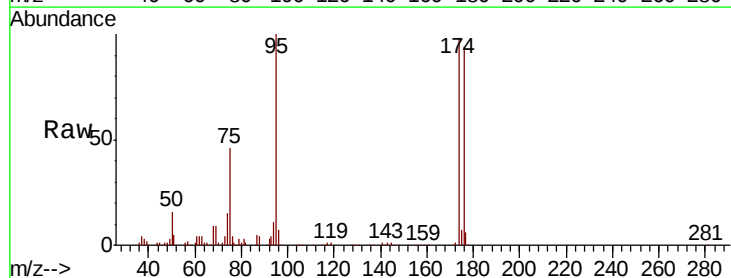
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



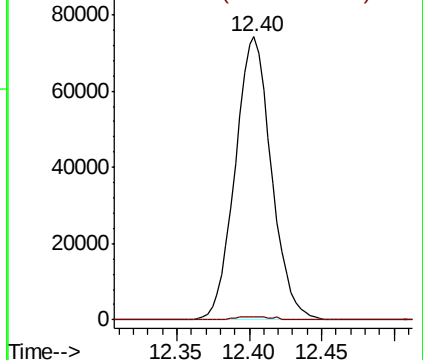
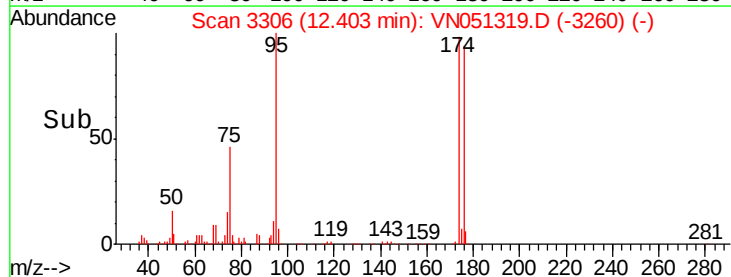
#76

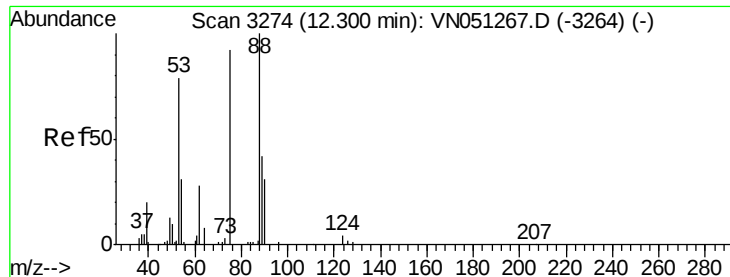
1,2,3-Trichloropropane
Concen: 45.16 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.15 min
Lab File: VN051319.D
Acq: 19 Sep 2018 15:14

Tgt Ion: 75 Resp: 128684
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



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





#81

trans-1,4-Dichloro-2-butene

Concen: 137.93 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051319.D

Acq: 19 Sep 2018 15:14

Instrument :

MSVOA_N

ClientSampleId :

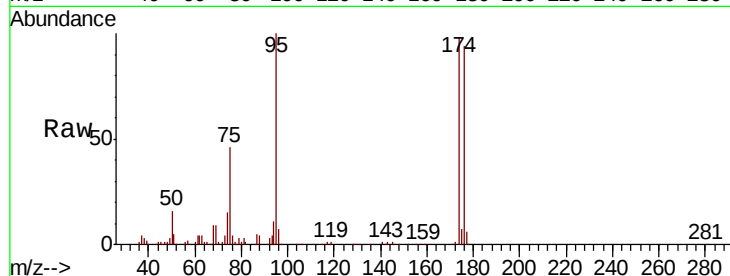
Tot Ion: 75 Resp: 128684

Ion Ratio Lower Upper

75 100

53 0.0 67.7 101.5#

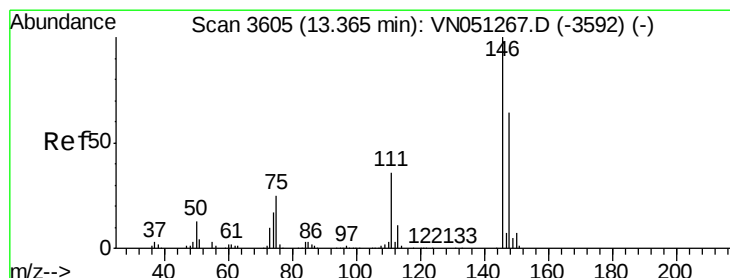
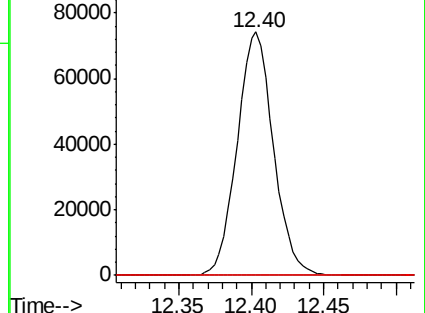
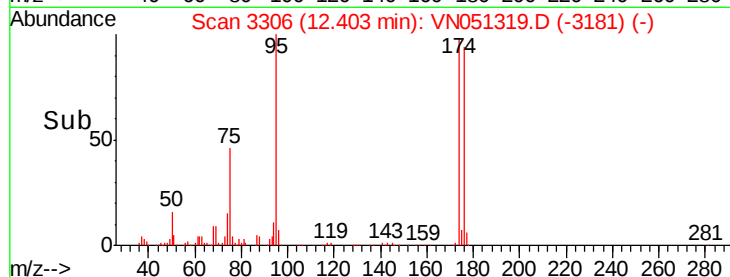
89 0.0 36.9 55.3#



Abundance Ion 74.90 (74.60 to 75.60): VN051319.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN051319.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN051319.D (-3181) (-)



#88

1,4-Dichlorobenzene

Concen: 0.44 ug/l

RT: 13.36 min Scan# 3603

Delta R.T. -0.01 min

Lab File: VN051319.D

Acq: 19 Sep 2018 15:14

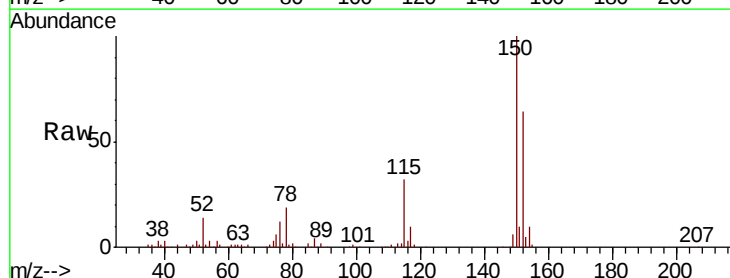
Tgt Ion: 146 Resp: 199

Ion Ratio Lower Upper

146 100

111 1116.6 18.2 54.6#

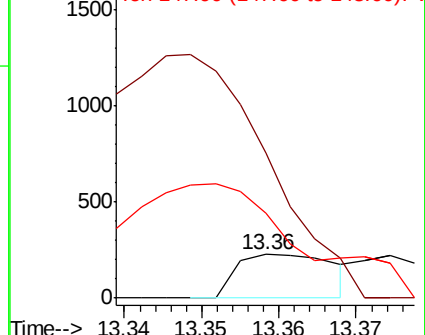
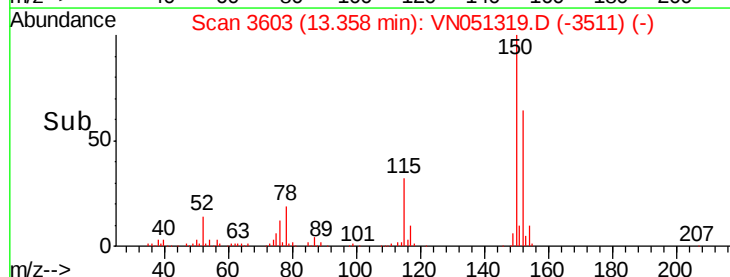
148 524.6 31.9 95.7#

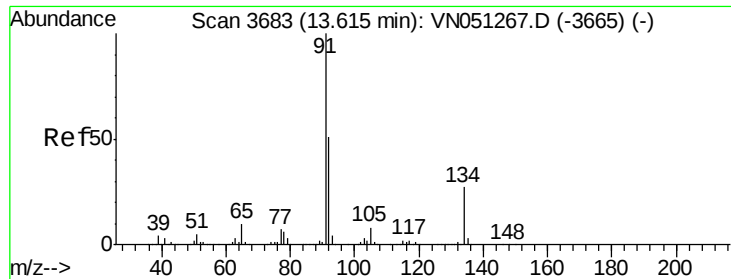


Abundance Ion 145.90 (145.60 to 146.60): VN051319.D (-3511) (-)

Ion 110.90 (110.60 to 111.60): VN051319.D (-3511) (-)

Ion 147.90 (147.60 to 148.60): VN051319.D (-3511) (-)

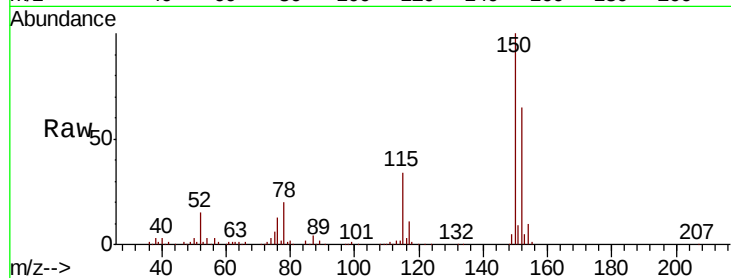




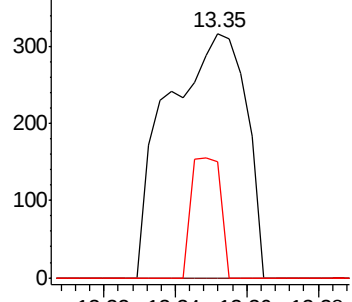
#89
n-Butylbenzene
Concen: 2.06 ug/l
RT: 13.35 min Scan# 3601
Delta R.T. -0.26 min
Lab File: VN051319.D
Acq: 19 Sep 2018 15:14

Instrument :
MSVOA_N
ClientSampled :

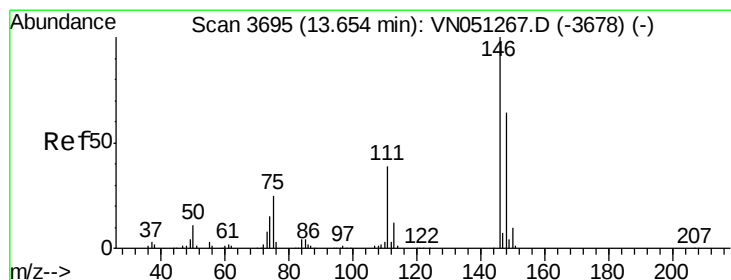
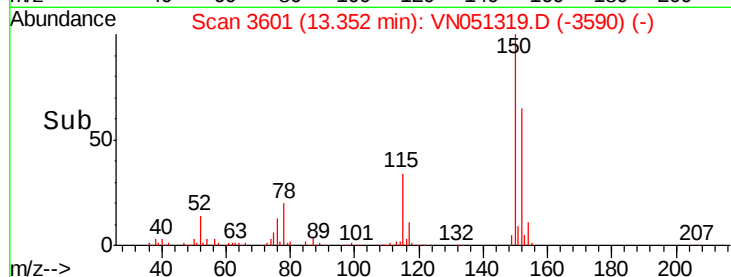
Tot Ion: 91 Resp: 481
Ion Ratio Lower Upper
91 100
92 0.0 25.8 77.4#
134 18.5 13.7 41.0



Abundance Ion 91.00 (90.70 to 91.70): VN051319.D (-3590) (-)
Ion 92.00 (91.70 to 92.70): VN051319.D (-3590) (-)
Ion 134.00 (133.70 to 134.70): VN051319.D (-3590) (-)

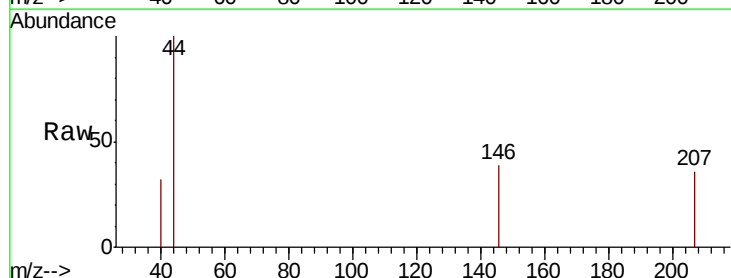


Time-->

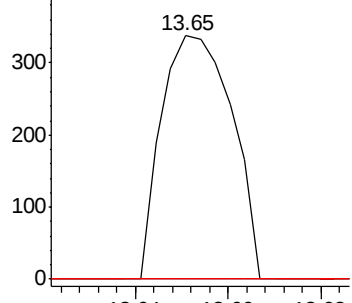


#91
1,2-Dichlorobenzene
Concen: Below Cal
RT: 13.65 min Scan# 3694
Delta R.T. -0.00 min
Lab File: VN051319.D
Acq: 19 Sep 2018 15:14

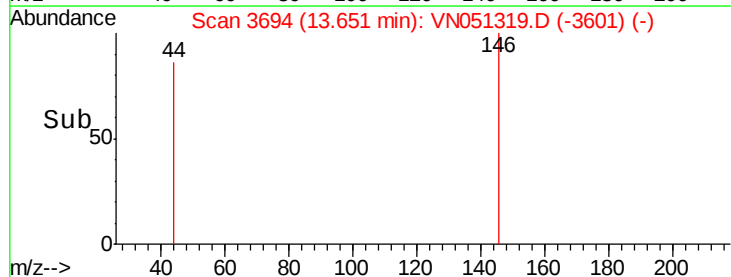
Tgt Ion: 146 Resp: 359
Ion Ratio Lower Upper
146 100
111 0.0 19.6 58.7#
148 0.0 31.9 95.9#

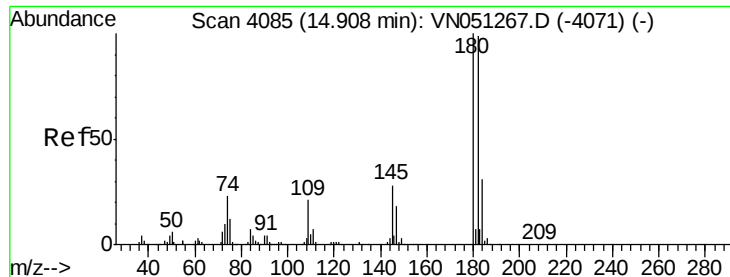


Abundance Ion 145.90 (145.60 to 146.60): VN051319.D (-3601) (-)
Ion 110.90 (110.60 to 111.60): VN051319.D (-3601) (-)
Ion 147.90 (147.60 to 148.60): VN051319.D (-3601) (-)



Time-->

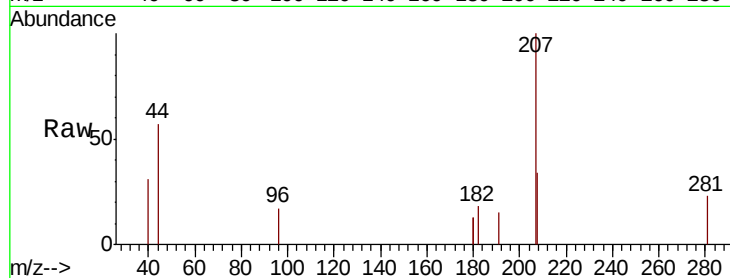




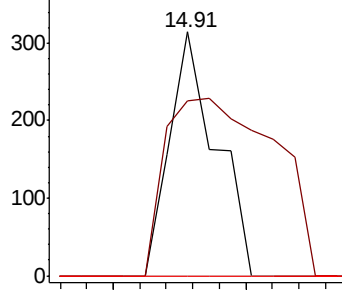
#93
 1,2,4-Trichlorobenzene
 Concen: 5.07 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051319.D
 Acq: 19 Sep 2018 15:14

Instrument :
 MSVOA_N
 ClientSampled :

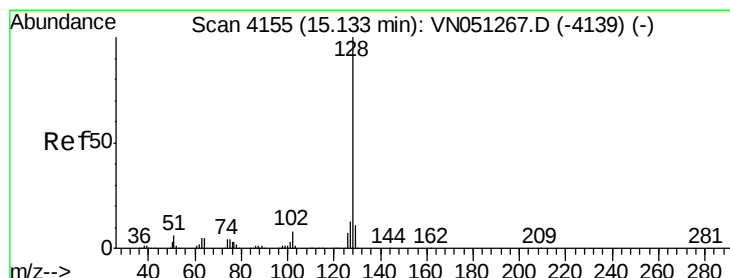
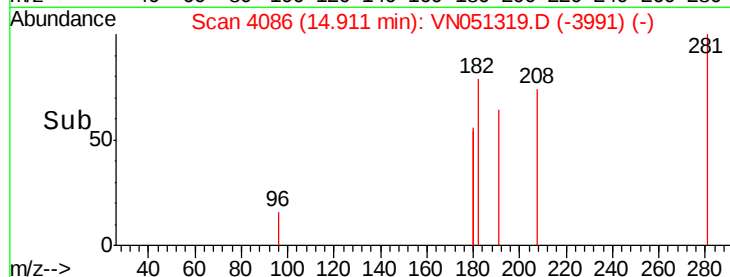
Tot Ion:180 Resp: 153
 Ion Ratio Lower Upper
 180 100
 182 171.9 48.5 145.6#
 145 0.0 14.0 41.9#



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

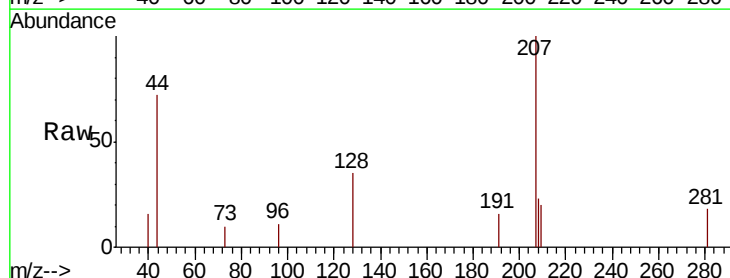


Time--> 14.90 14.92

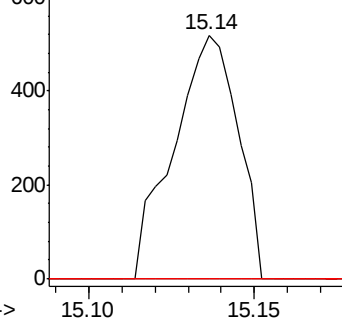


#95
 Naphthalene
 Concen: 6.02 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN051319.D
 Acq: 19 Sep 2018 15:14

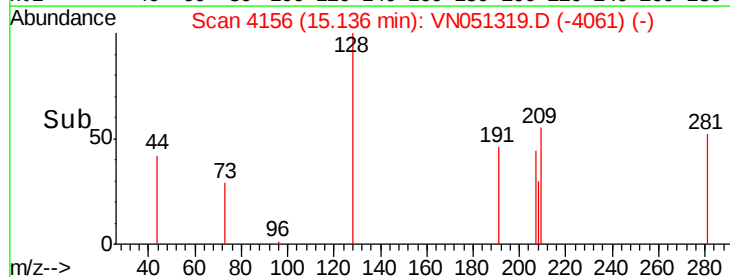
Tgt Ion:128 Resp: 700
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.7 16.1#
 129 0.0 8.9 13.3#

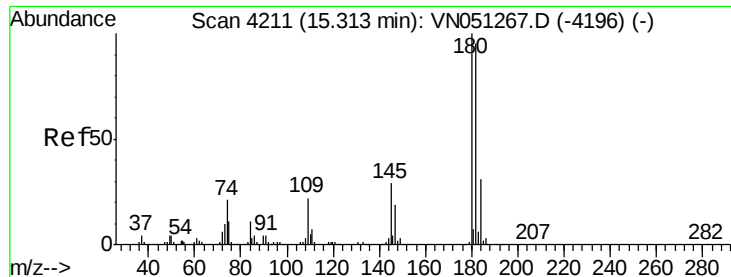


Abundance Ion 128.00 (127.70 to 128.70): V
 Ion 127.00 (126.70 to 127.70): V
 Ion 129.00 (128.70 to 129.70): V



Time--> 15.10 15.15

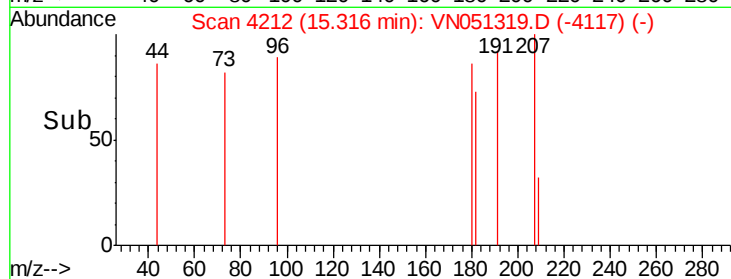
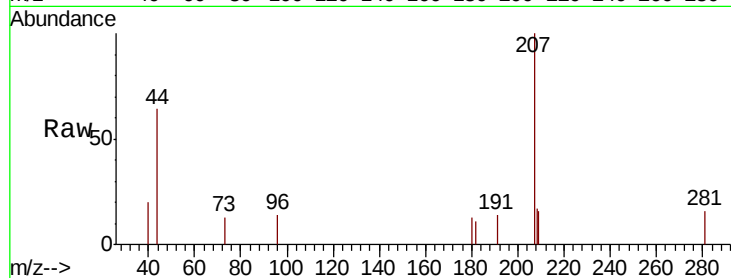




#96
 1,2,3-Trichlorobenzene
 Concen: 3.91 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN051319.D
 Acq: 19 Sep 2018 15:14

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	71.1	47.5	142.6
145	0.0	14.8	44.4



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

