

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121218\
 Data File : VN052831.D
 Acq On : 12 Dec 2018 17:07
 Operator : MD\SY
 Sample : VN1212WBL02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBL02

Quant Time: Dec 13 04:11:19 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 13 01:08:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1196879	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1856436	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1667169	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	666641	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	610855	48.00	ug/l	0.00
Spiked Amount			Recovery	=	96.00%	
35) Dibromofluoromethane	7.59	113	542508	52.35	ug/l	0.00
Spiked Amount			Recovery	=	104.70%	
50) Toluene-d8	10.09	98	2269447	50.51	ug/l	0.00
Spiked Amount			Recovery	=	101.02%	
62) 4-Bromofluorobenzene	12.40	95	740773	48.66	ug/l	0.00
Spiked Amount			Recovery	=	97.32%	

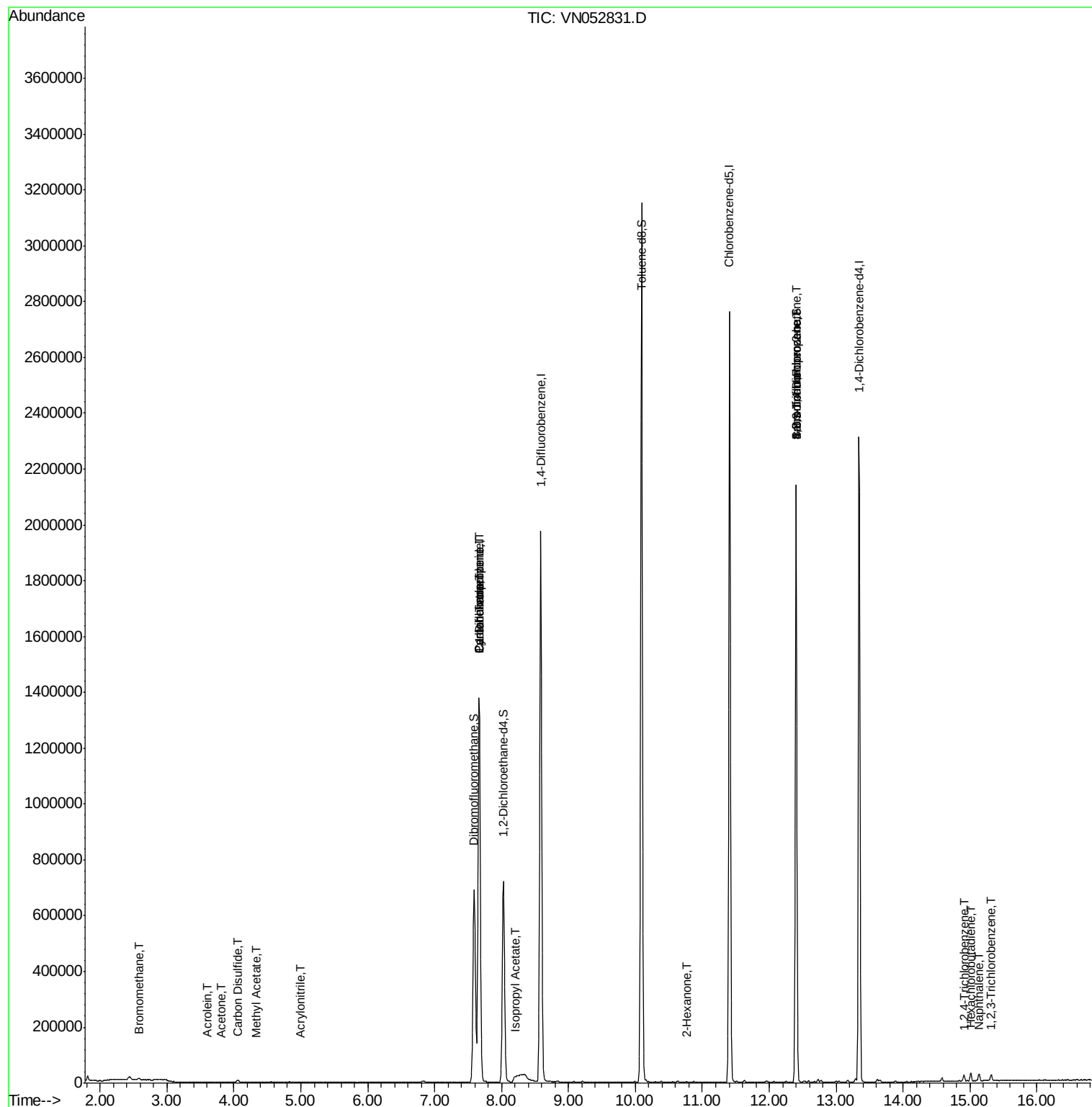
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.58	94	2410	0.264	ug/l	84
13) Acrolein	3.61	56	1376	2.055	ug/l #	78
15) Acrylonitrile	4.99	53	1774	0.445	ug/l #	66
16) Acetone	3.82	43	1252	0.438	ug/l #	43
17) Carbon Disulfide	4.06	76	15692	0.464	ug/l	98
18) Methyl Acetate	4.33	43	2654	0.253	ug/l #	59
31) Cyclohexane	7.67	56	20242	0.363	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	80725	4.722	ug/l #	49
38) Carbon Tetrachloride	7.66	117	102692	6.526	ug/l #	15
43) Isopropyl Acetate	8.19	43	12451	0.591	ug/l #	53
59) 2-Hexanone	10.76	43	2109	0.319	ug/l	78
71) Bromoform	12.40	173	4634	0.567	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	351690	35.757	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	351690	114.869	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	8015	0.681	ug/l	97
94) Hexachlorobutadiene	15.01	225	6779	0.996	ug/l	90
95) Naphthalene	15.14	128	23732	0.974	ug/l	98
96) 1,2,3-Trichlorobenzene	15.32	180	8894	0.824	ug/l	96

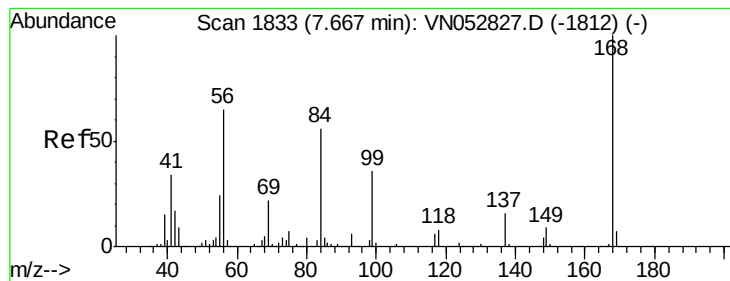
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Dec 13 01:08:35 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: VN052831.D

Acq: 12 Dec 2018 17:07

Instrument :

MSVOA_N

ClientSampleId :

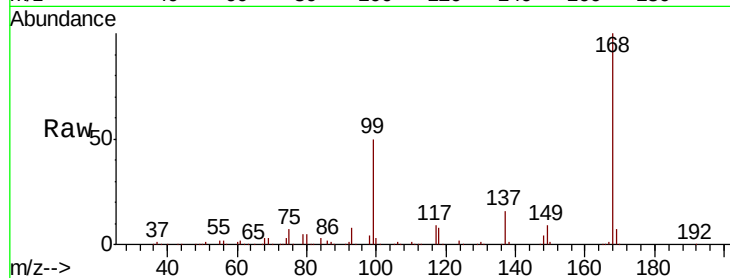
VN1212WBL02

Tot Ion:168 Resp: 1196879

Ion Ratio Lower Upper

168 100

99 50.0 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN052827.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN052827.D (-1812) (-)

7.67

600000

500000

400000

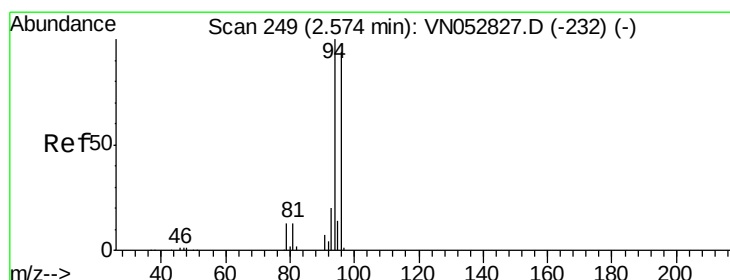
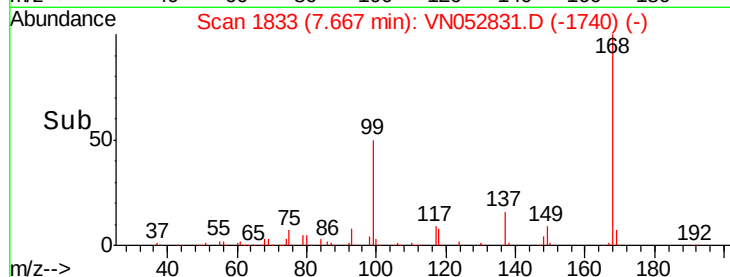
300000

200000

100000

0

Time-->



#5

Bromomethane

Concen: 0.264 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN052831.D

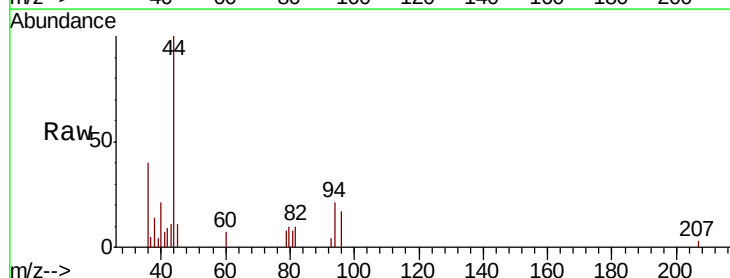
Acq: 12 Dec 2018 17:07

Tgt Ion: 94 Resp: 2410

Ion Ratio Lower Upper

94 100

96 77.9 75.0 112.4



Abundance Ion 93.90 (93.60 to 94.60): VN052827.D (-232) (-)

Ion 95.90 (95.60 to 96.60): VN052827.D (-232) (-)

2.58

1200

1000

800

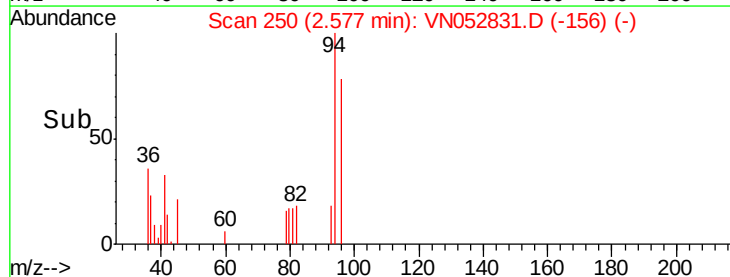
600

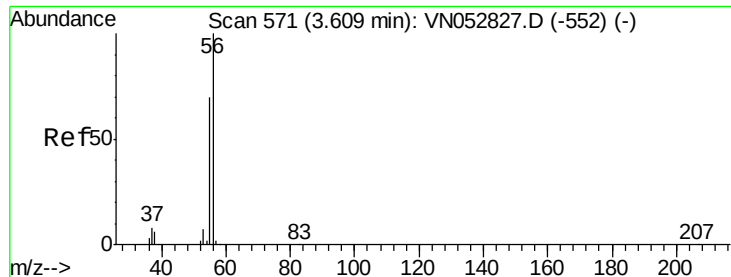
400

200

0

Time-->





#13

Acrolein

Concen: 2.055 ug/l

RT: 3.61 min Scan# 571

Delta R.T. -0.00 min

Lab File: VN052831.D

Acq: 12 Dec 2018 17:07

Instrument :

MSVOA_N

ClientSampleId :

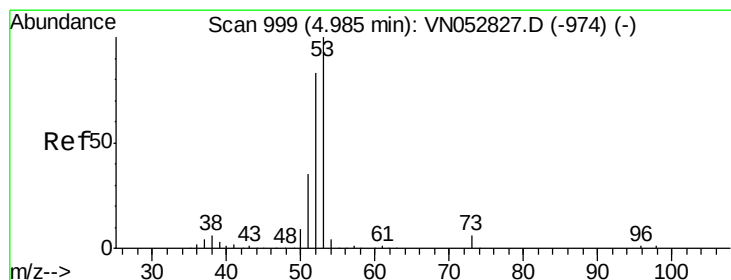
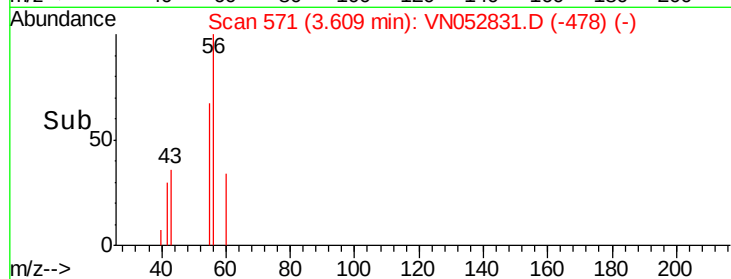
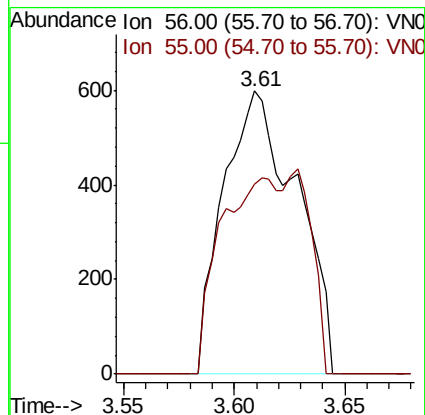
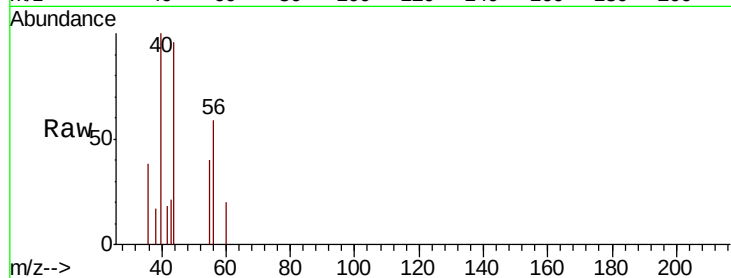
VN1212WBL02

Tot Ion: 56 Resp: 1376

Ion Ratio Lower Upper

56 100

55 52.9 56.6 85.0#



#15

Acrylonitrile

Concen: 0.445 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. 0.01 min

Lab File: VN052831.D

Acq: 12 Dec 2018 17:07

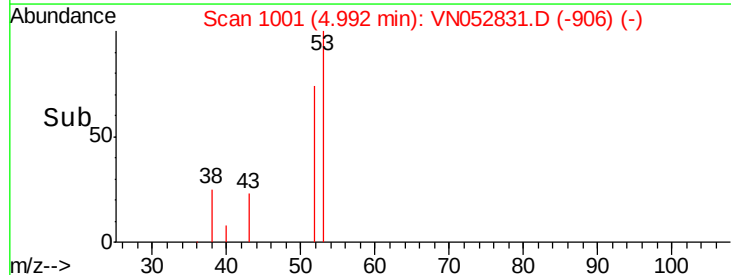
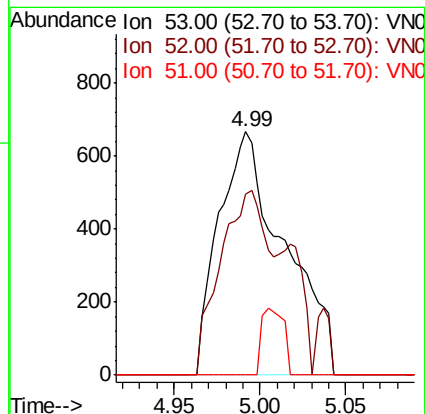
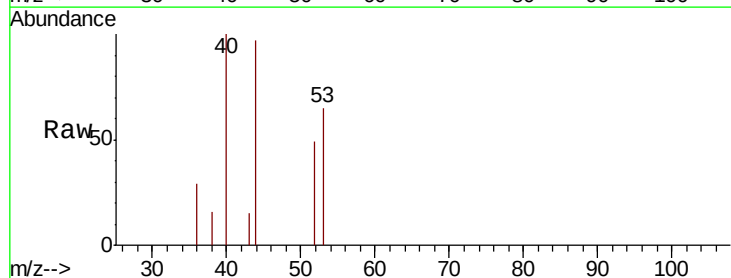
Tgt Ion: 53 Resp: 1774

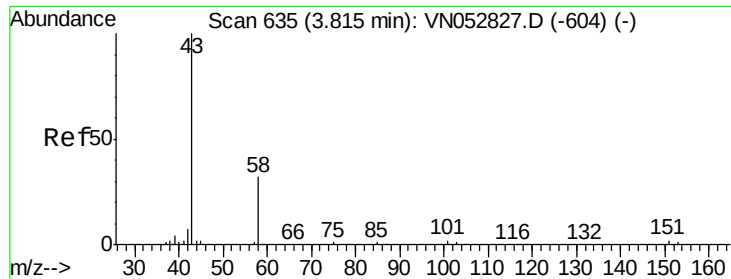
Ion Ratio Lower Upper

53 100

52 54.8 65.1 97.7#

51 9.0 28.1 42.1#





#16

Acetone

Concen: 0.438 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052831.D

Acq: 12 Dec 2018 17:07

Instrument :

MSVOA_N

ClientSampleId :

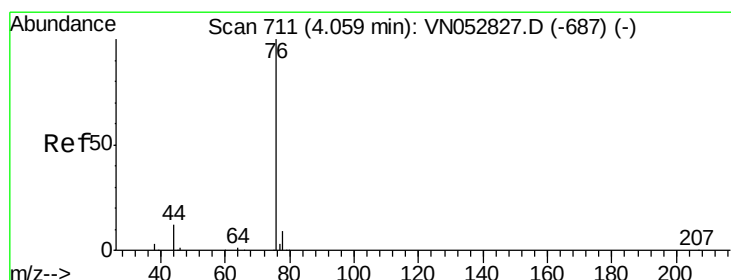
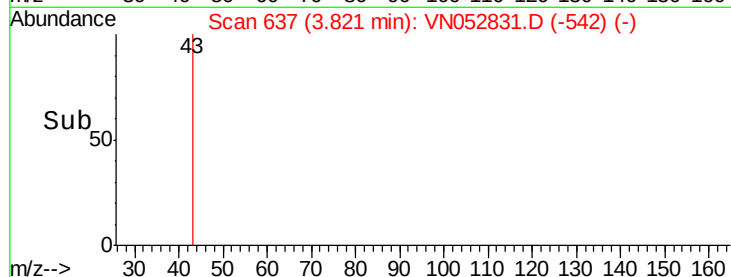
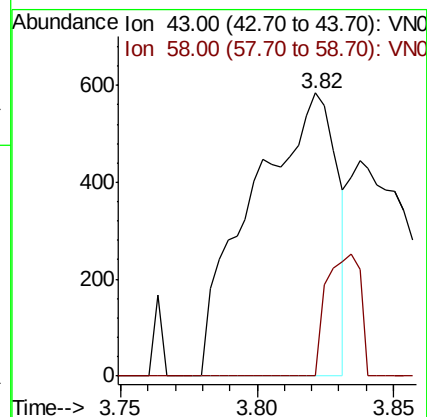
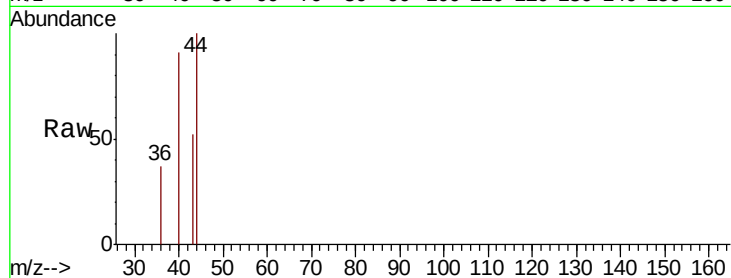
VN1212WBL02

Tot Ion: 43 Resp: 1252

Ion Ratio Lower Upper

43 100

58 0.0 25.4 38.0#



#17

Carbon Disulfide

Concen: 0.464 ug/l

RT: 4.06 min Scan# 711

Delta R.T. -0.00 min

Lab File: VN052831.D

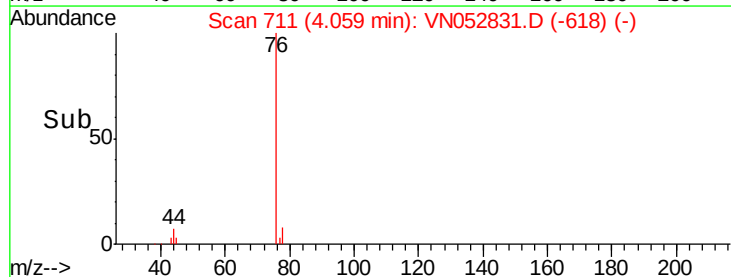
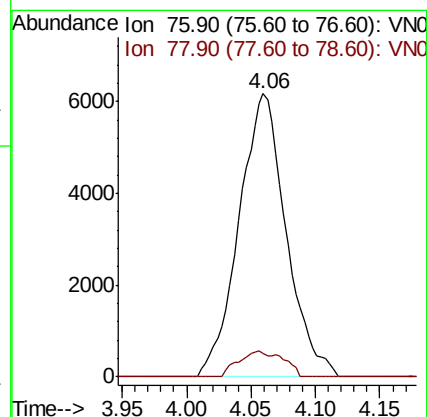
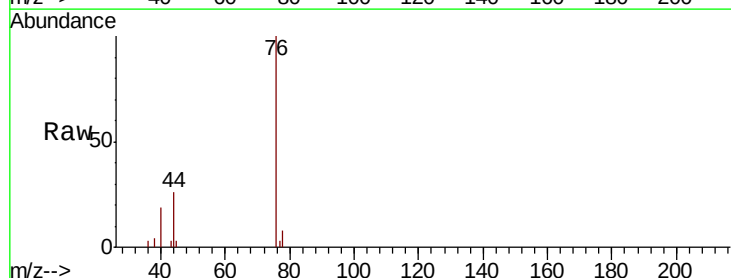
Acq: 12 Dec 2018 17:07

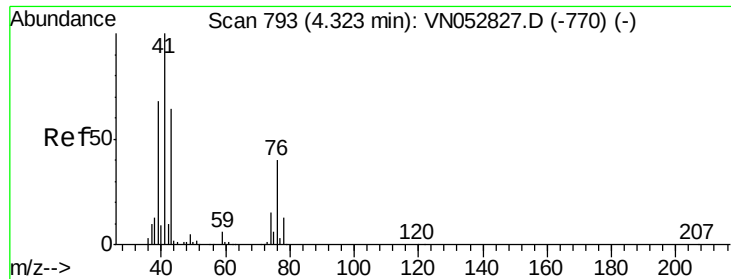
Tgt Ion: 76 Resp: 15692

Ion Ratio Lower Upper

76 100

78 8.1 7.1 10.7

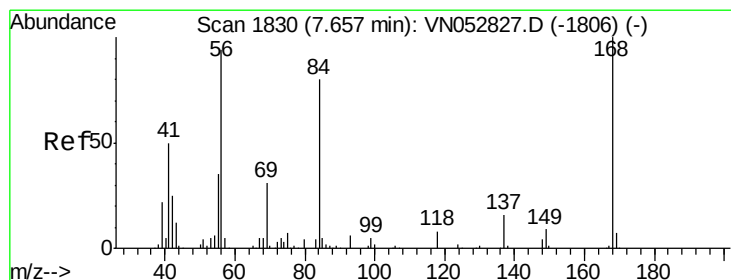
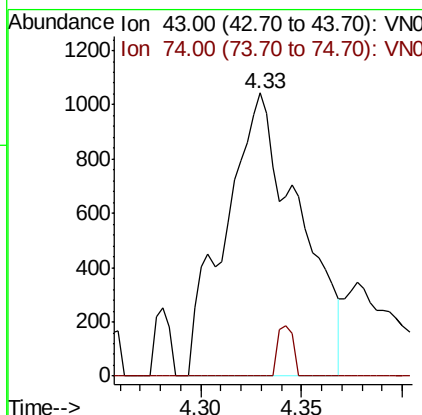
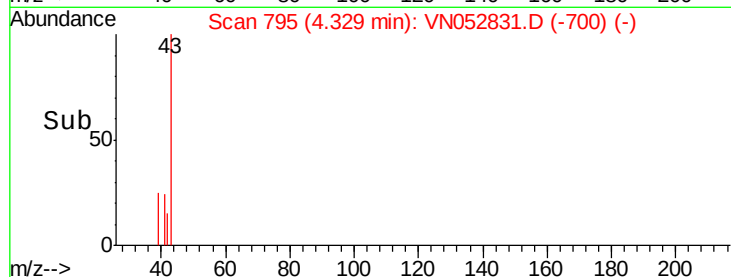
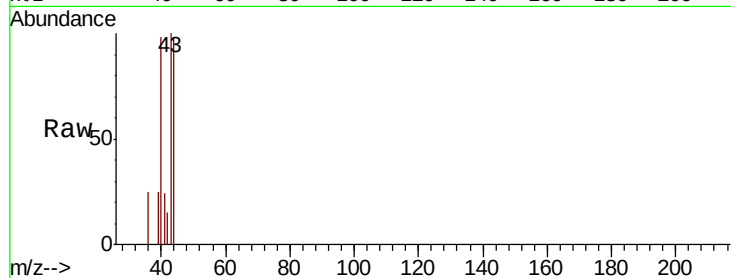




#18
Methvl Acetate
Concen: 0.253 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN052831.D
Acq: 12 Dec 2018 17:07

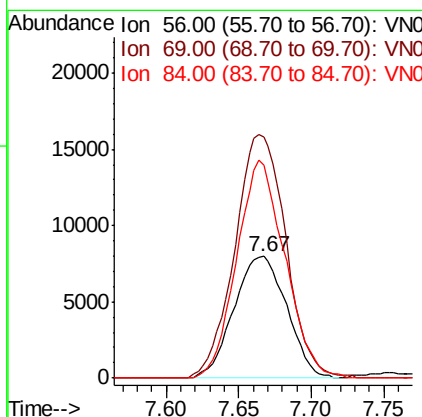
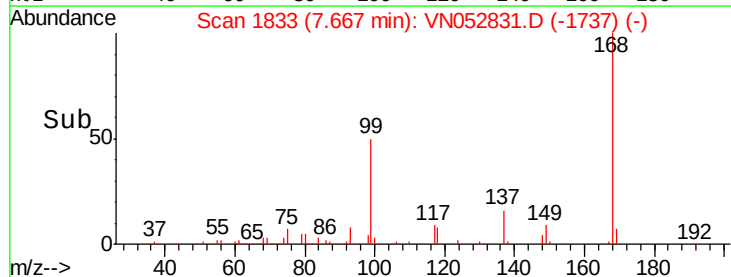
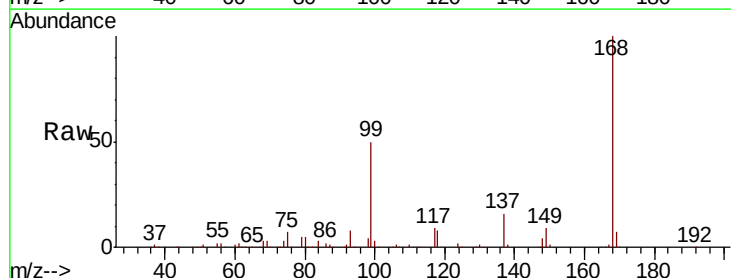
Instrument :
MSVOA_N
ClientSampleId :
VN1212WBL02

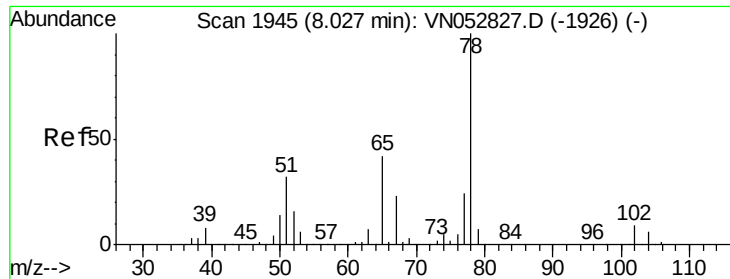
Tot Ion: 43 Resp: 2654
Ion Ratio Lower Upper
43 100
74 3.7 19.2 28.8#



#31
Cyclohexane
Concen: 0.363 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052831.D
Acq: 12 Dec 2018 17:07

Tgt Ion: 56 Resp: 20242
Ion Ratio Lower Upper
56 100
69 198.5 26.6 39.8#
84 175.3 68.4 102.6#

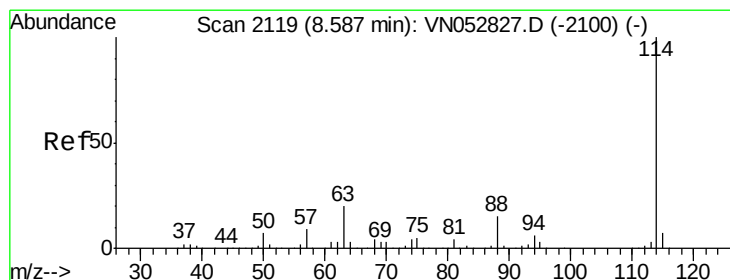
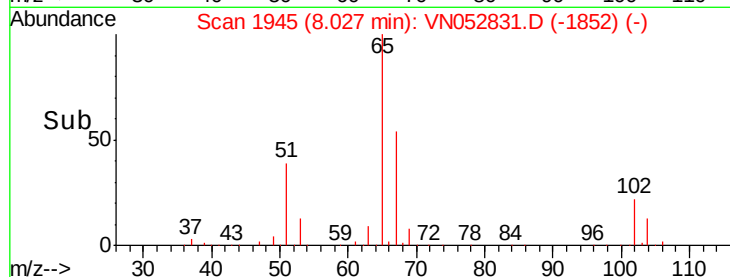
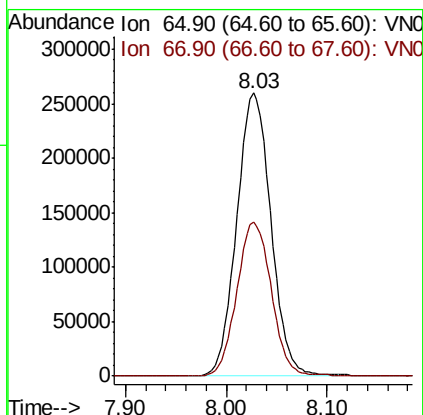
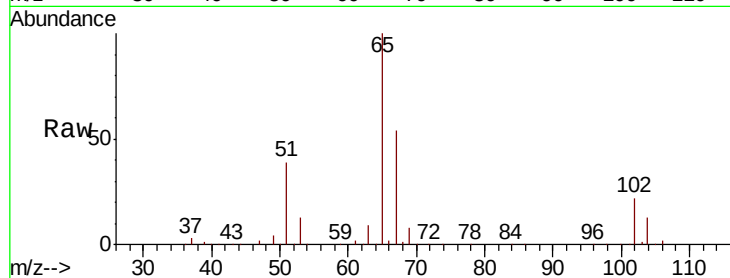




#33
 1,2-Dichloroethane-d4
 Concen: N.D. ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052831.D
 Acq: 12 Dec 2018 17:07

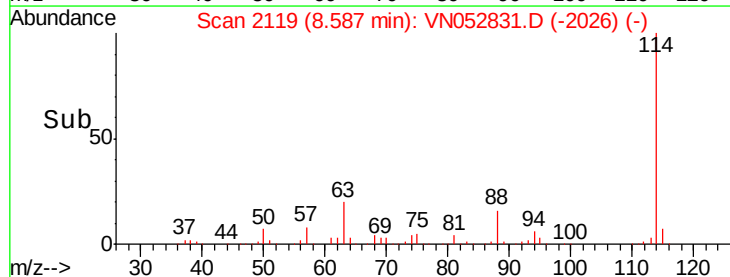
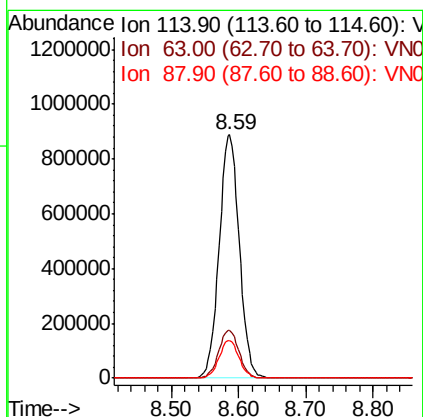
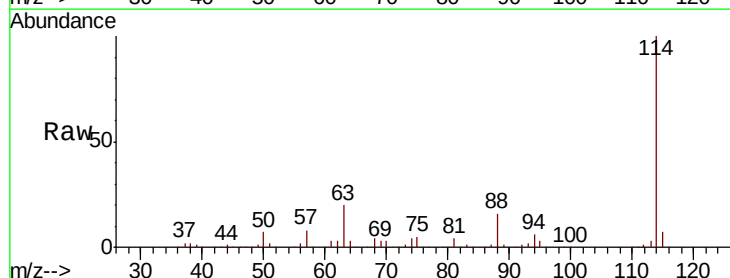
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBL02

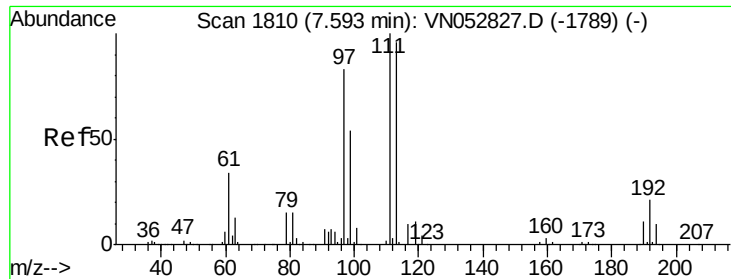
Tot Ion: 65 Resp: 610855
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052831.D
 Acq: 12 Dec 2018 17:07

Tgt Ion: 114 Resp: 1856436
 Ion Ratio Lower Upper
 114 100
 63 19.8 0.0 39.8
 88 15.6 0.0 31.0

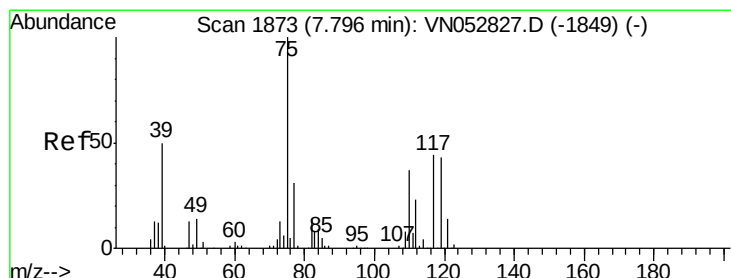
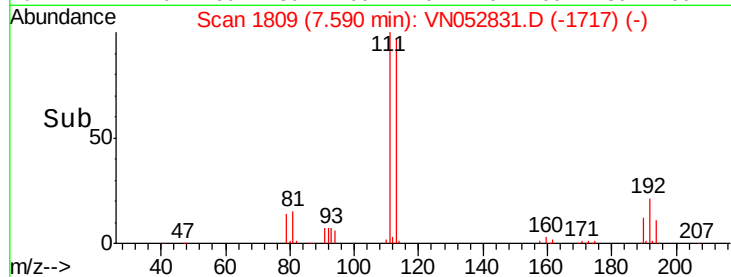
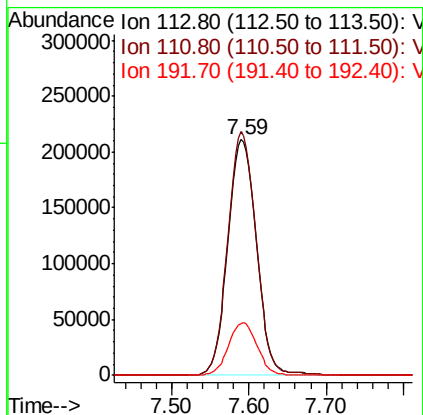
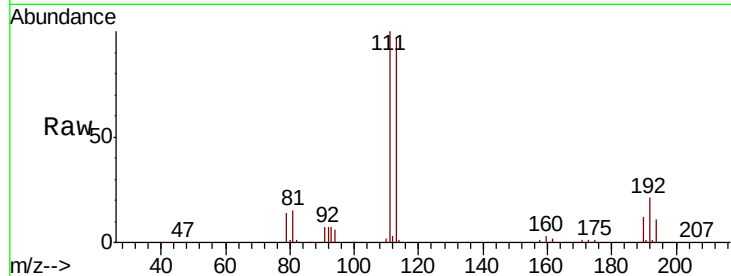




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN052831.D
 Acq: 12 Dec 2018 17:07

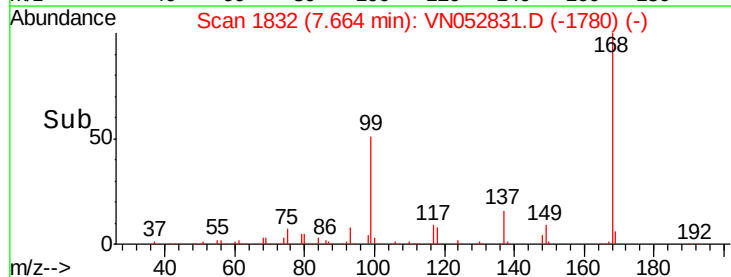
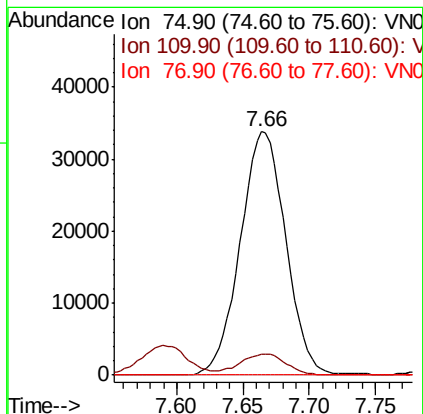
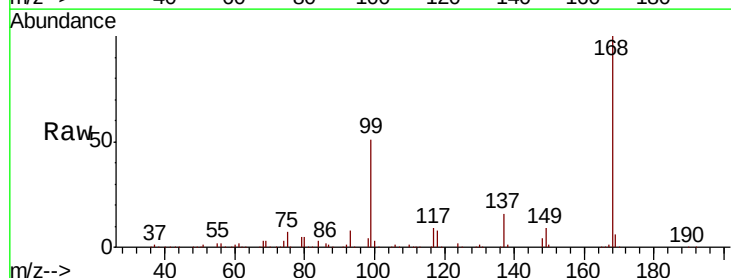
Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBL02

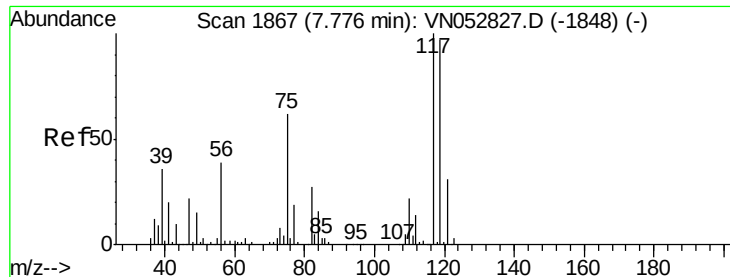
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	83.0	124.4
192	22.3	17.5	26.3



#36
 1,1-Dichloropropene
 Concen: 4.722 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN052831.D
 Acq: 12 Dec 2018 17:07

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	18.2	54.6#
77	0.0	24.9	37.3#





#38

Carbon Tetrachloride

Concen: 6.526 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN052831.D

Acq: 12 Dec 2018 17:07

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBL02

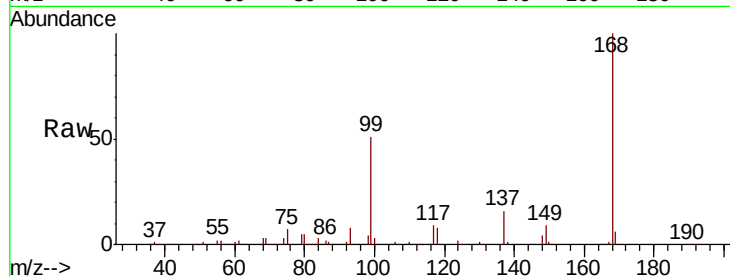
Tot Ion:117 Resp: 102692

Ion Ratio Lower Upper

117 100

119 4.7 77.1 115.7#

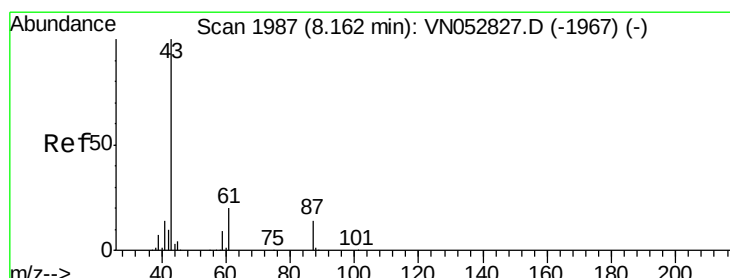
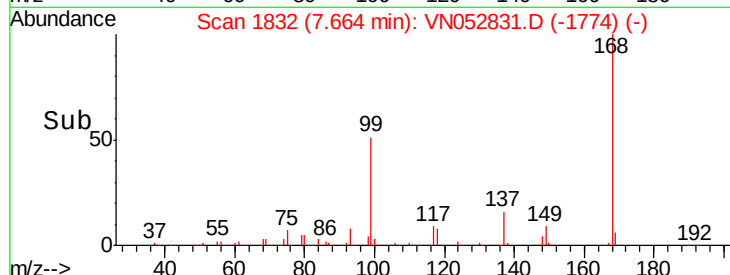
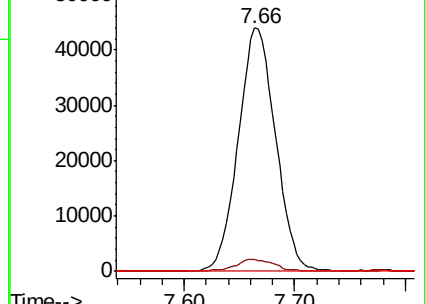
121 0.0 24.9 37.3#



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: 0.591 ug/l

RT: 8.19 min Scan# 1997

Delta R.T. 0.03 min

Lab File: VN052831.D

Acq: 12 Dec 2018 17:07

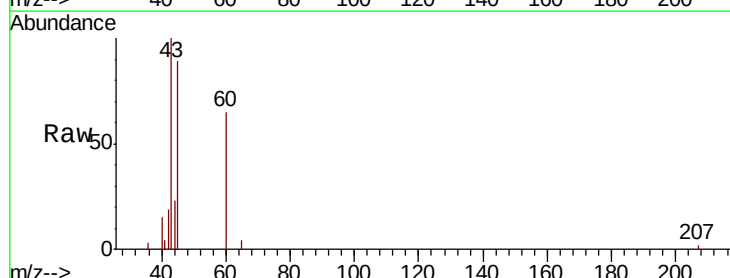
Tgt Ion: 43 Resp: 12451

Ion Ratio Lower Upper

43 100

61 0.0 22.9 34.3#

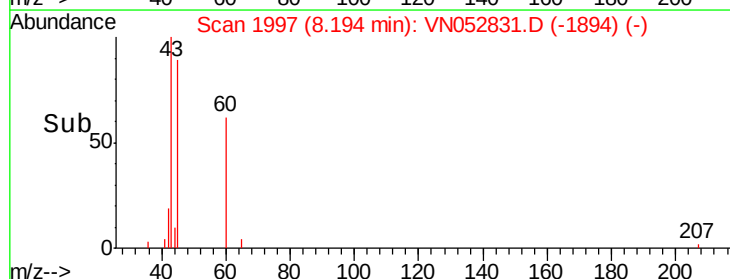
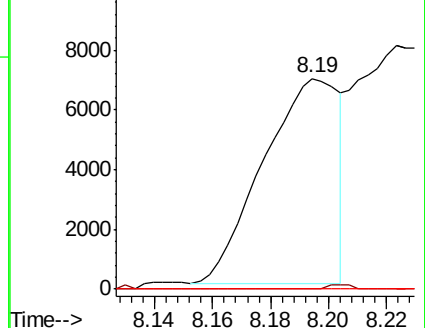
87 0.0 10.6 15.8#

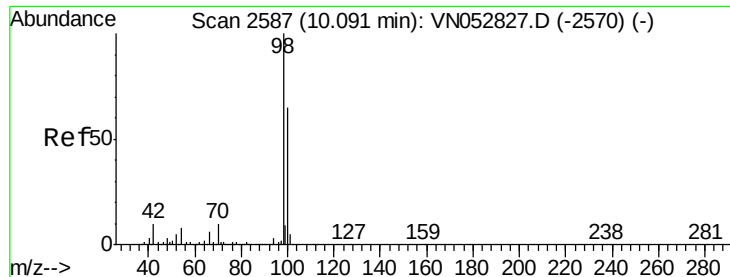


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052831.D

Acq: 12 Dec 2018 17:07

Instrument :

MSVOA_N

ClientSampleId :

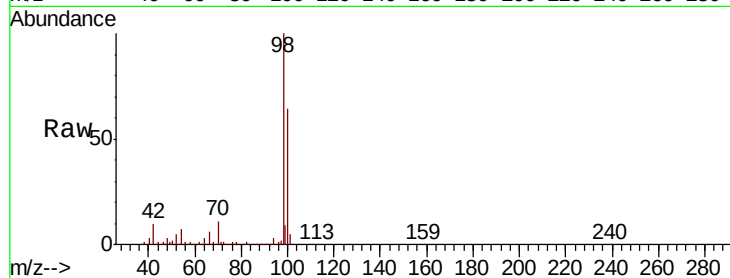
VN1212WBL02

Tot Ion: 98 Resp: 2269447

Ion Ratio Lower Upper

98 100

100 64.0 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN052827.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052827.D (-2570) (-)

10.09

1500000

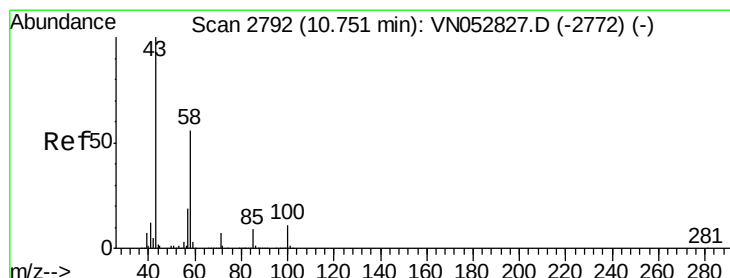
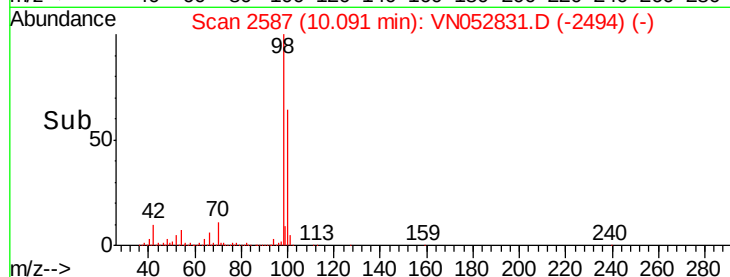
1000000

500000

0

10.00 10.10 10.20

Time-->



#59

2-Hexanone

Concen: 0.319 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.01 min

Lab File: VN052831.D

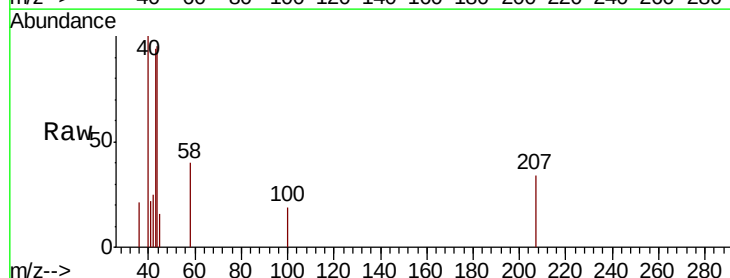
Acq: 12 Dec 2018 17:07

Tgt Ion: 43 Resp: 2109

Ion Ratio Lower Upper

43 100

58 40.0 28.1 84.3



Abundance Ion 43.00 (42.70 to 43.70): VN052827.D (-2772) (-)

Ion 58.00 (57.70 to 58.70): VN052827.D (-2772) (-)

10.76

1200

1000

800

600

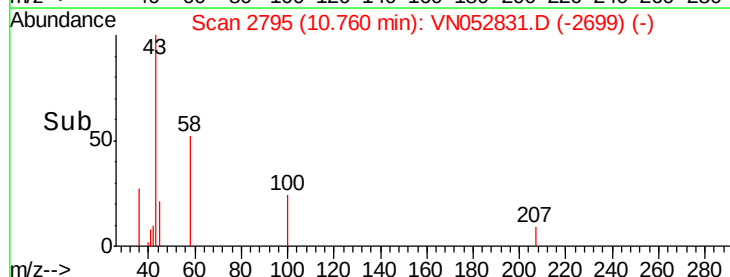
400

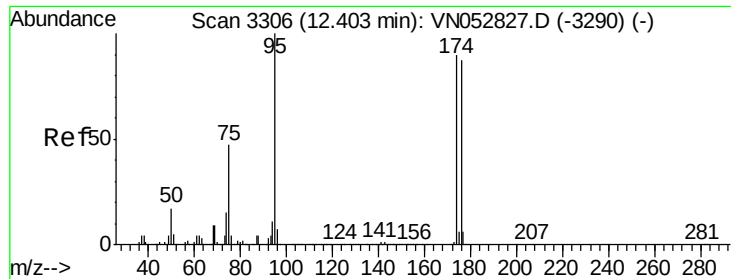
200

0

10.70 10.75 10.80

Time-->





#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN052831.D

Acq: 12 Dec 2018 17:07

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBL02

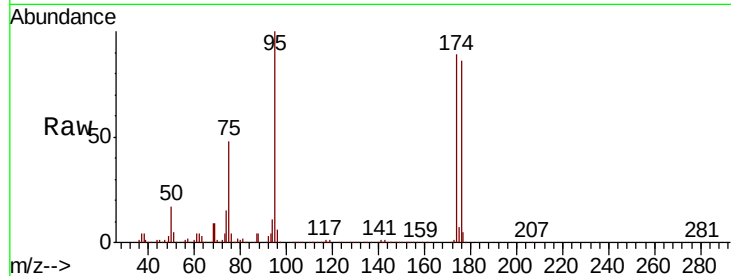
Tot Ion: 95 Resp: 740773

Ion Ratio Lower Upper

95 100

174 88.4 0.0 178.8

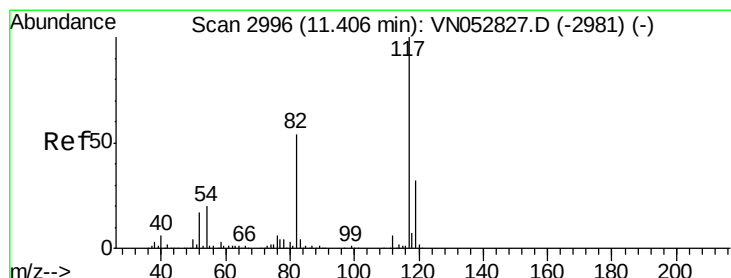
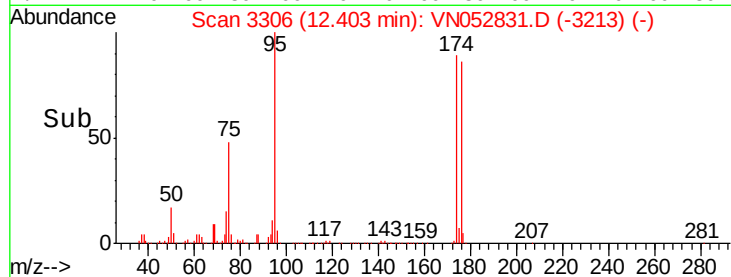
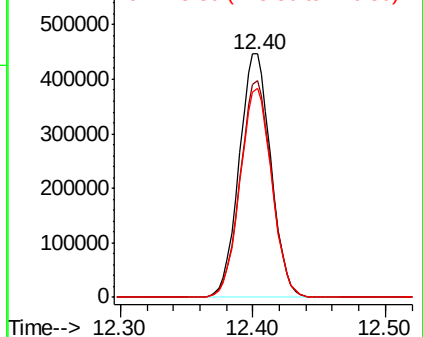
176 85.7 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VN052827.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN052827.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN052827.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052831.D

Acq: 12 Dec 2018 17:07

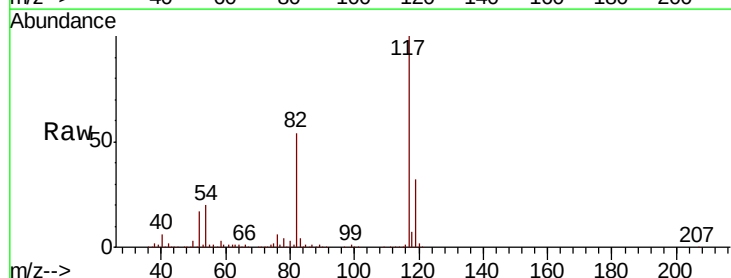
Tgt Ion: 117 Resp: 1667169

Ion Ratio Lower Upper

117 100

82 53.9 42.8 64.2

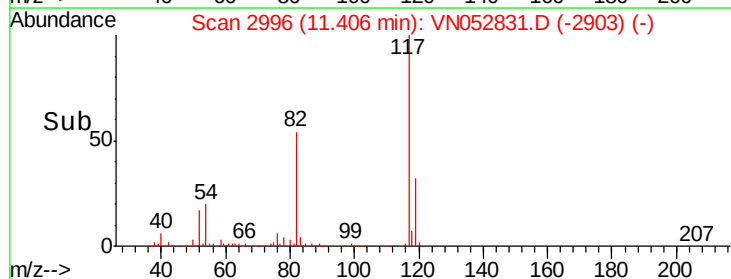
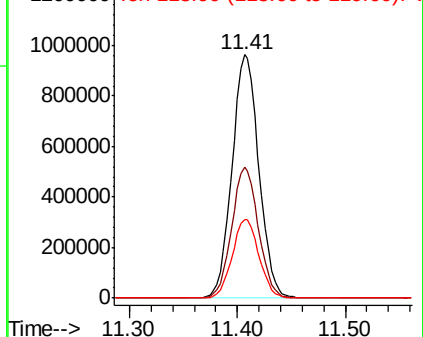
119 32.5 25.5 38.3

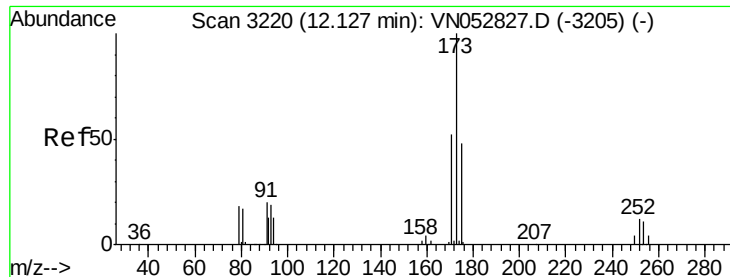


Abundance Ion 116.90 (116.60 to 117.60): VN052827.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN052827.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN052827.D (-2981) (-)





#71

Bromoform

Concen: 0.567 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052831.D

Acq: 12 Dec 2018 17:07

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBL02

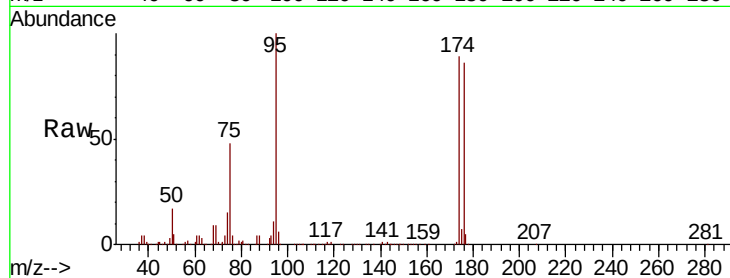
Tot Ion:173 Resp: 4634

Ion Ratio Lower Upper

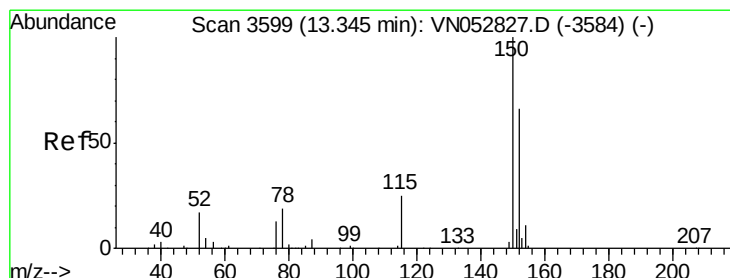
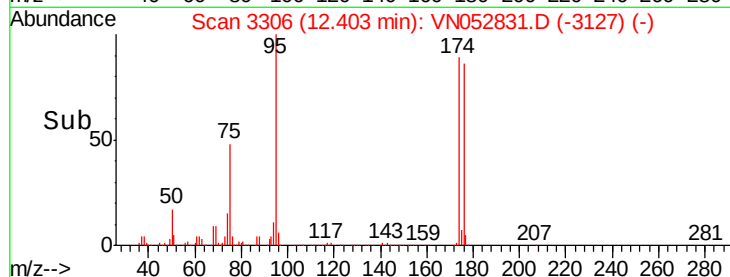
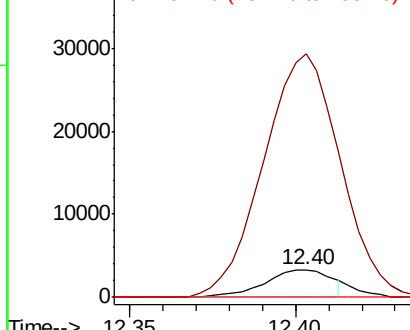
173 100

175 898.0 24.3 72.9#

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: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN052831.D

Acq: 12 Dec 2018 17:07

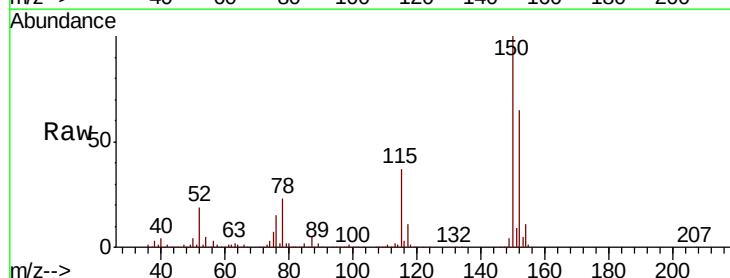
Tgt Ion:152 Resp: 666641

Ion Ratio Lower Upper

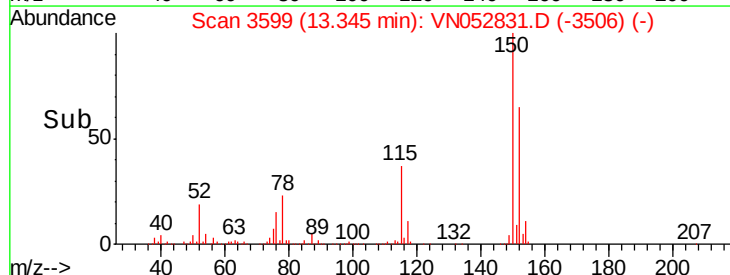
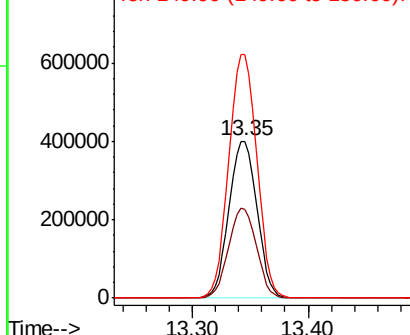
152 100

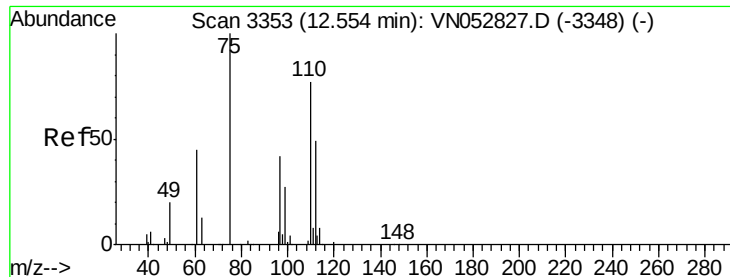
115 56.9 28.3 85.0

150 155.2 0.0 347.8



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: 35.757 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052831.D

Acq: 12 Dec 2018 17:07

Instrument :

MSVOA_N

ClientSampleId :

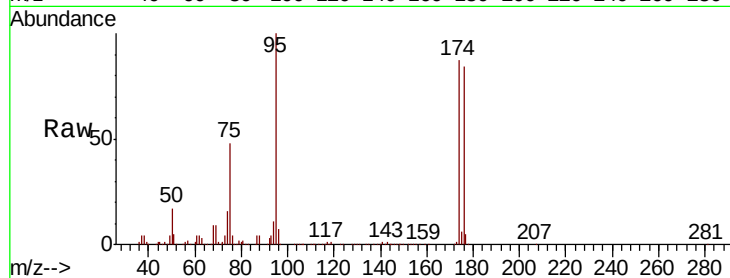
VN1212WBL02

Tot Ion: 75 Resp: 351690

Ion Ratio Lower Upper

75 100

77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

250000

200000

150000

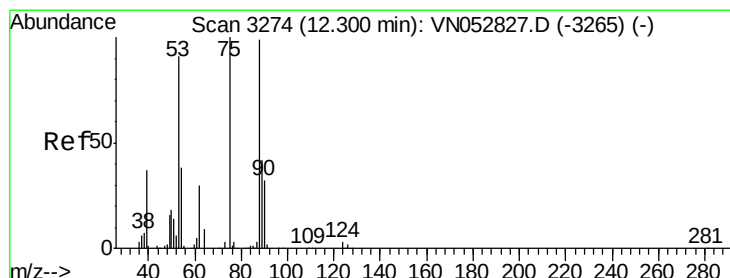
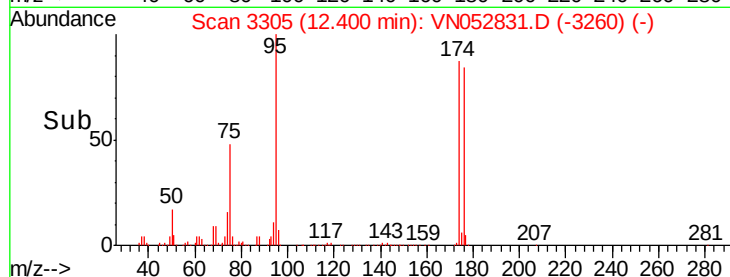
100000

50000

0

12.35 12.40 12.45 12.50

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 114.869 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052831.D

Acq: 12 Dec 2018 17:07

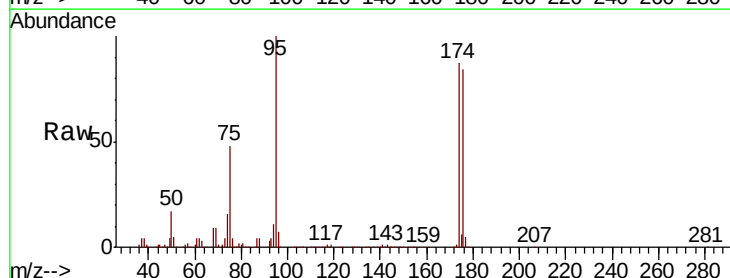
Tgt Ion: 75 Resp: 351690

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

89 0.0 36.1 54.1#



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

250000

200000

150000

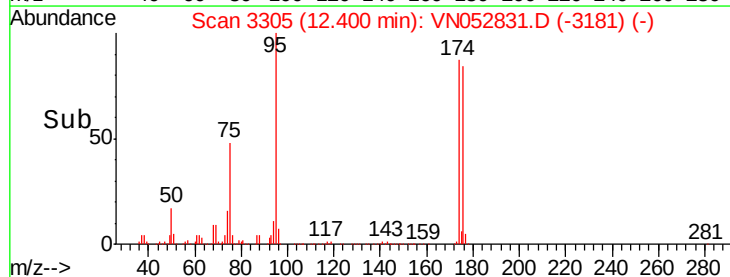
100000

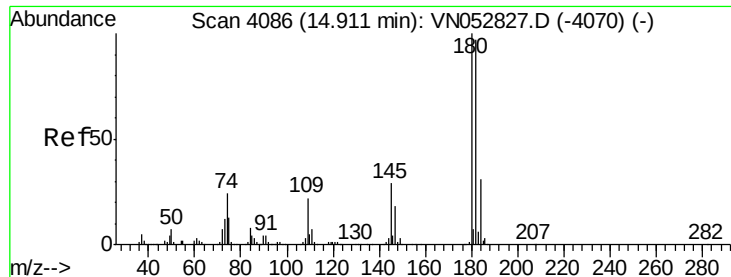
50000

0

12.35 12.40 12.45 12.50

Time-->

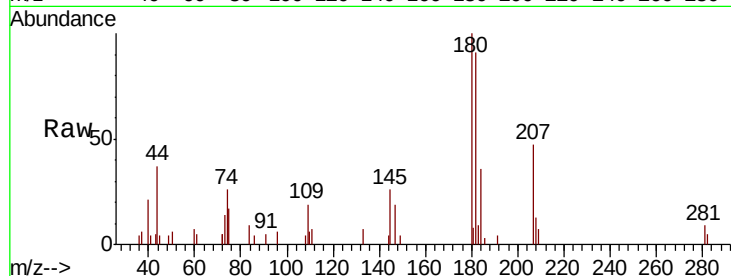




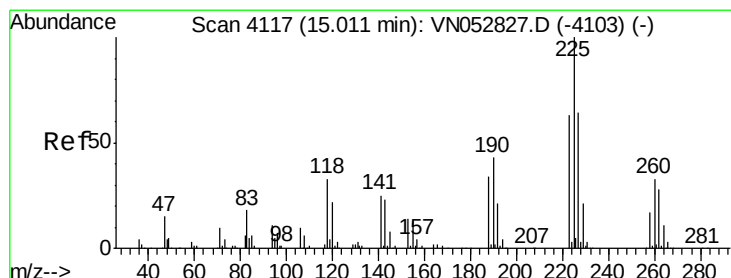
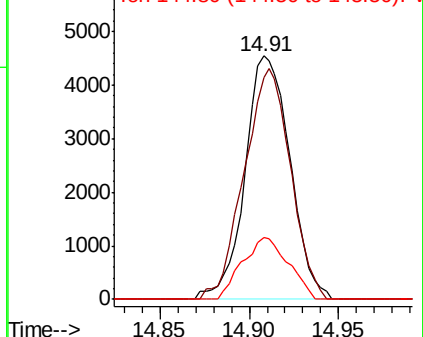
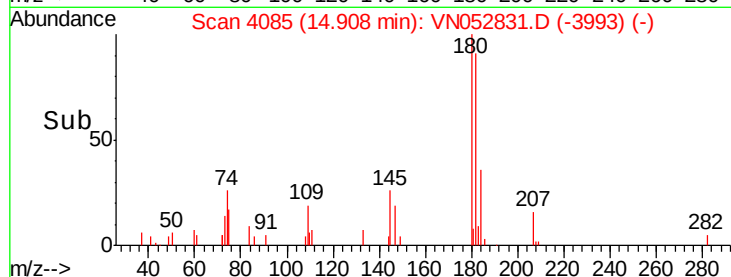
#93
 1,2,4-Trichlorobenzene
 Concen: 0.681 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN052831.D
 Acq: 12 Dec 2018 17:07

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1212WBL02

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.4	47.8	143.3
145	26.0	14.2	42.6

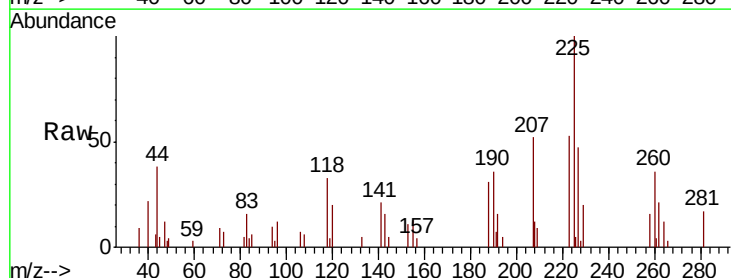


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

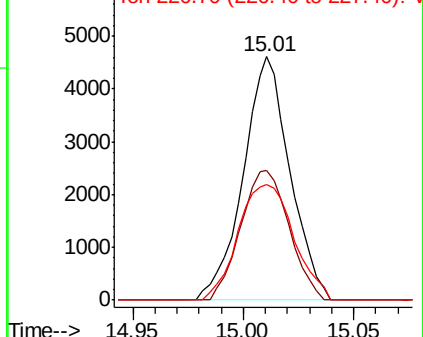
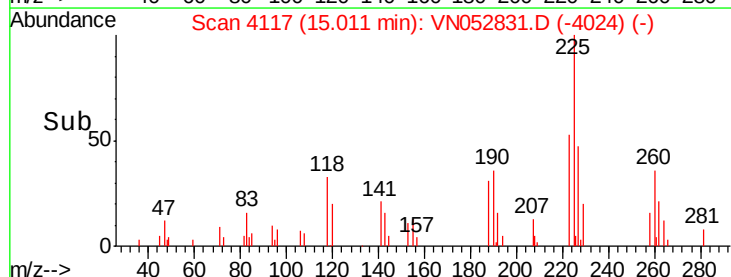


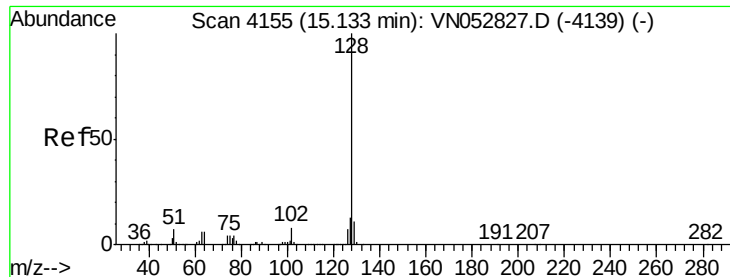
#94
 Hexachlorobutadiene
 Concen: 0.996 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. -0.00 min
 Lab File: VN052831.D
 Acq: 12 Dec 2018 17:07

Tgt Ion	Ratio	Lower	Upper
225	100		
223	55.0	31.5	94.5
227	56.7	31.9	95.7



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 0.974 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN052831.D

Acq: 12 Dec 2018 17:07

Instrument :

MSVOA_N

ClientSampleId :

VN1212WBL02

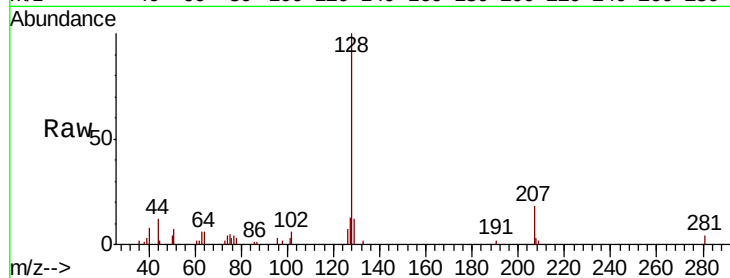
Tot Ion:128 Resp: 23732

Ion Ratio Lower Upper

128 100

127 11.9 10.2 15.4

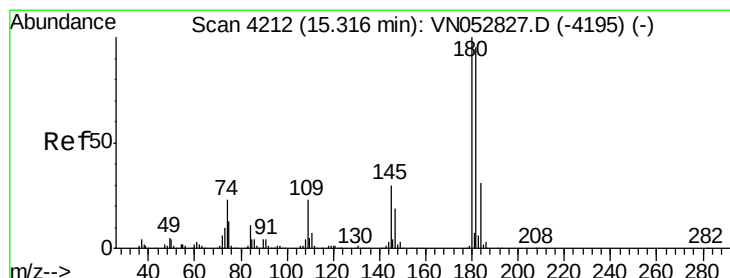
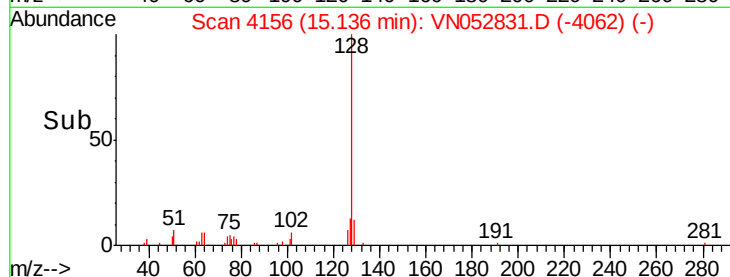
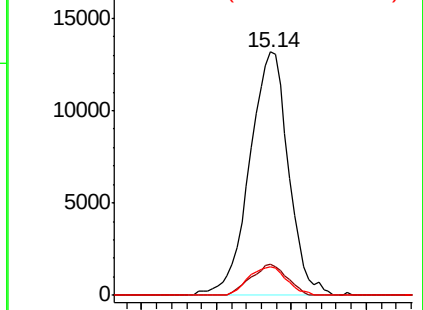
129 11.5 8.6 13.0



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: 0.824 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN052831.D

Acq: 12 Dec 2018 17:07

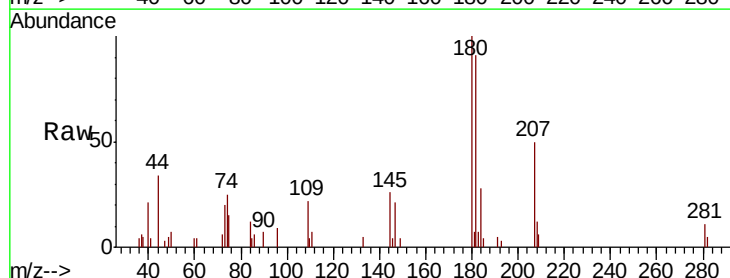
Tgt Ion:180 Resp: 8894

Ion Ratio Lower Upper

180 100

182 98.8 47.9 143.7

145 27.1 15.0 45.0



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

