

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092618\
 Data File : VN051522.D
 Acq On : 26 Sep 2018 8:17
 Operator : MD\SY
 Sample : PB113167ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 38 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#11

Quant Time: Sep 26 08:38:58 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

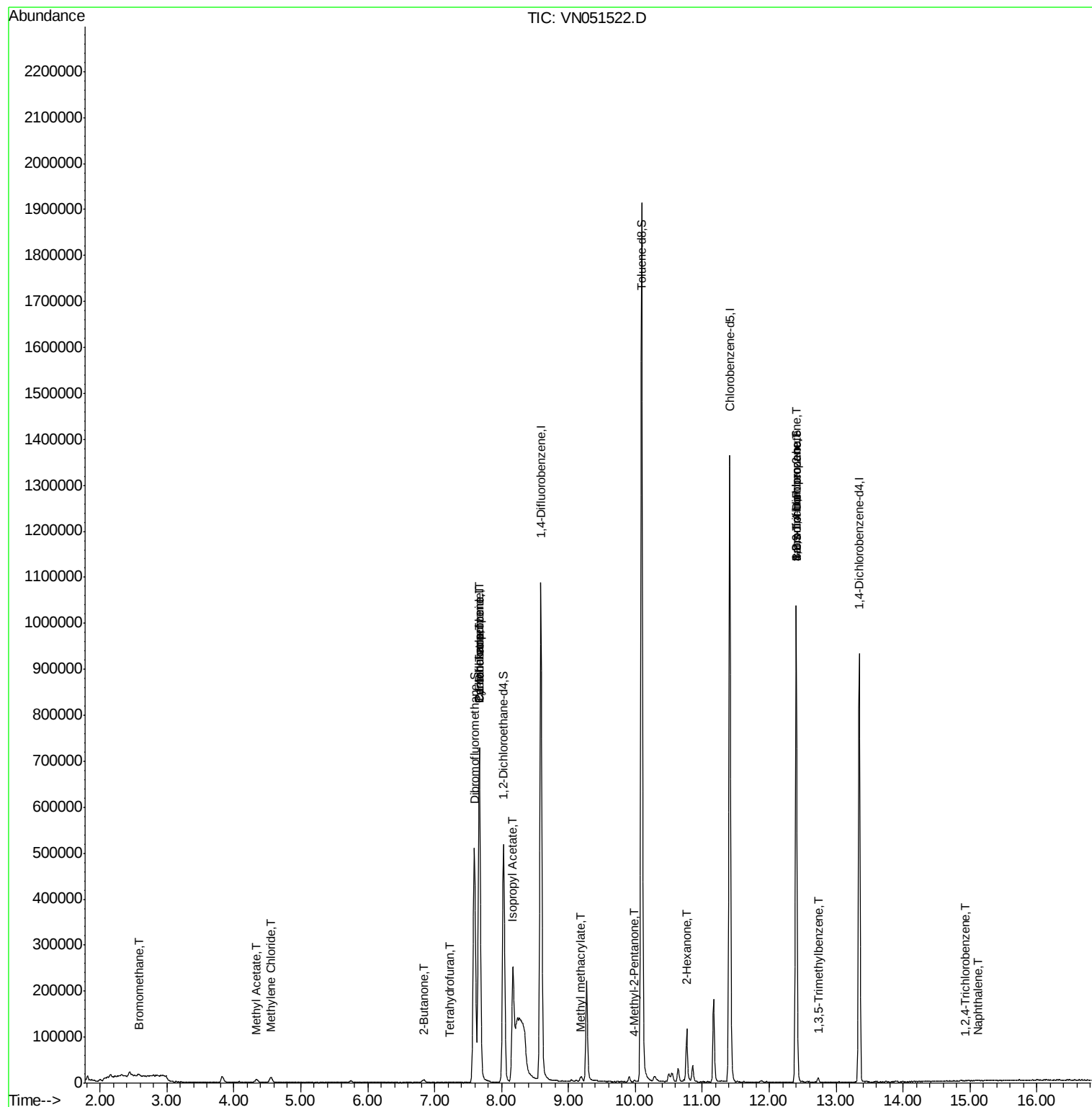
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	620365	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1004967	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	823948	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	259179	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	443055	57.01	ug/l	0.00
Spiked Amount 50.000			Recovery	=	114.02%	
35) Dibromofluoromethane	7.59	113	383626	47.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	95.48%	
50) Toluene-d8	10.09	98	1384264	45.74	ug/l	0.00
Spiked Amount 50.000			Recovery	=	91.48%	
62) 4-Bromofluorobenzene	12.40	95	355750	36.34	ug/l	0.00
Spiked Amount 50.000			Recovery	=	72.68%	
Target Compounds						
					Qvalue	
5) Bromomethane	2.57	94	1449	0.297	ug/l	92
16) Acetone	3.82	43	23936	Below Cal		97
18) Methyl Acetate	4.33	43	13907	2.350	ug/l #	72
20) Methylene Chloride	4.55	84	8459	1.100	ug/l	90
25) 2-Butanone	6.85	43	2570	0.966	ug/l	94
29) Tetrahydrofuran	7.22	42	1151	0.683	ug/l #	36
31) Cyclohexane	7.66	56	12300	1.005	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	46317	3.980	ug/l #	48
38) Carbon Tetrachloride	7.67	117	56887	4.673	ug/l #	16
43) Isopropyl Acetate	8.17	43	313979	25.950	ug/l #	92
48) Methyl methacrylate	9.18	41	7104	1.178	ug/l #	16
51) 4-Methyl-2-Pentanone	9.98	43	2203	0.331	ug/l	91
59) 2-Hexanone	10.77	43	15225	3.529	ug/l	65
71) Bromoform	12.40	173	1757	0.321	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	172563	40.107	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	4186	0.235	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	172563	123.327	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	36	5.988	ug/l #	11
95) Naphthalene	15.13	128	523	8.090	ug/l #	69

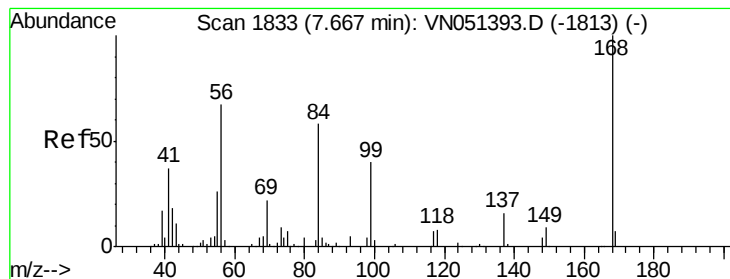
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051522.D

Acq: 26 Sep 2018 8:17

Instrument :

MSVOA_N

ClientSampleId :

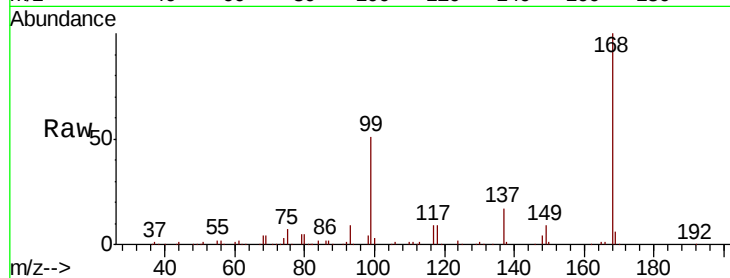
PB113167ZHE#11

Tot Ion:168 Resp: 620365

Ion Ratio Lower Upper

168 100

99 51.5 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

250000

200000

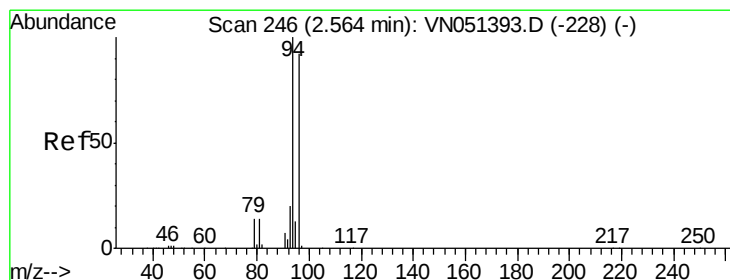
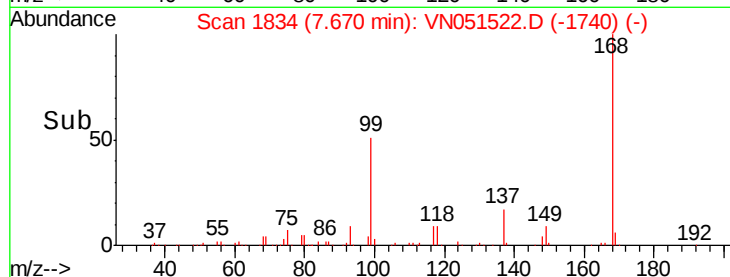
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.297 ug/l

RT: 2.57 min Scan# 248

Delta R.T. 0.01 min

Lab File: VN051522.D

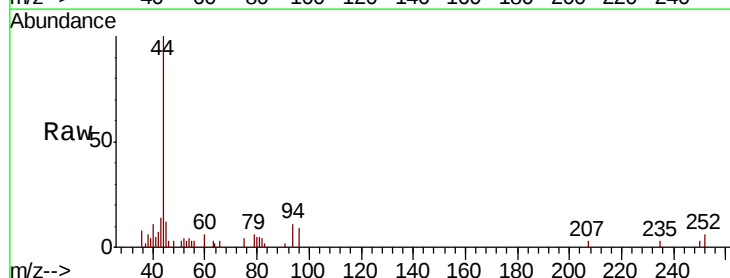
Acq: 26 Sep 2018 8:17

Tgt Ion: 94 Resp: 1449

Ion Ratio Lower Upper

94 100

96 84.1 73.6 110.4



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO

2.57

800

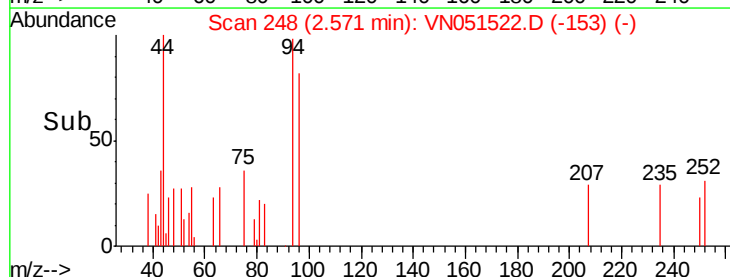
600

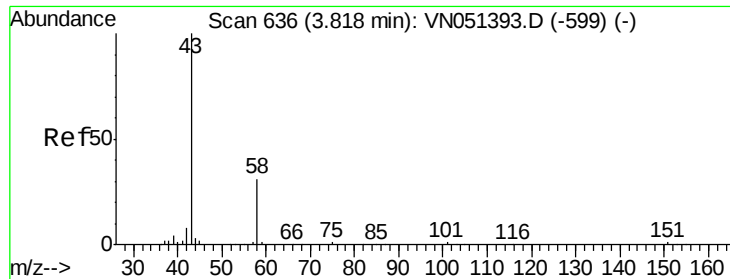
400

200

0

Time-->





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.00 min

Lab File: VN051522.D

Acq: 26 Sep 2018 8:17

Instrument :

MSVOA_N

ClientSampleId :

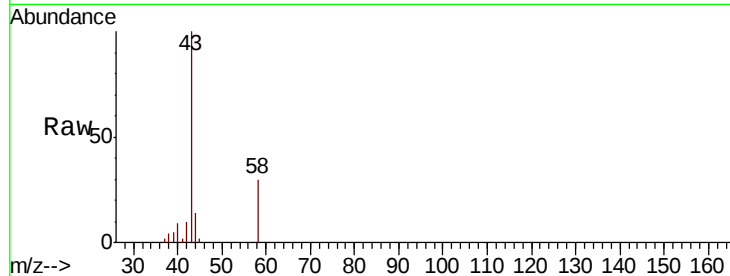
PB113167ZHE#11

Tot Ion: 43 Resp: 23936

Ion Ratio Lower Upper

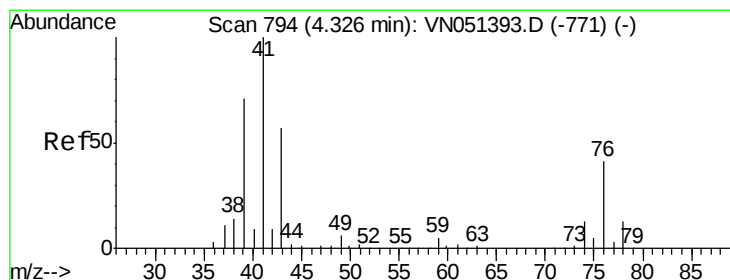
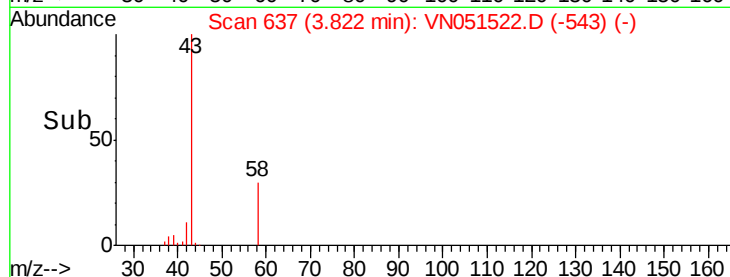
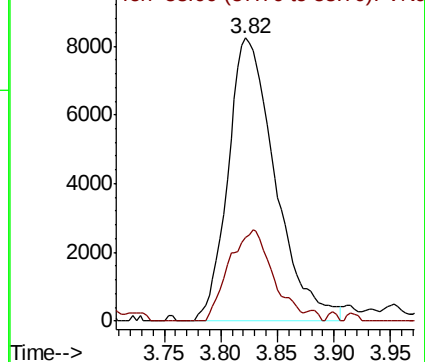
43 100

58 29.7 25.0 37.4



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 2.350 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.00 min

Lab File: VN051522.D

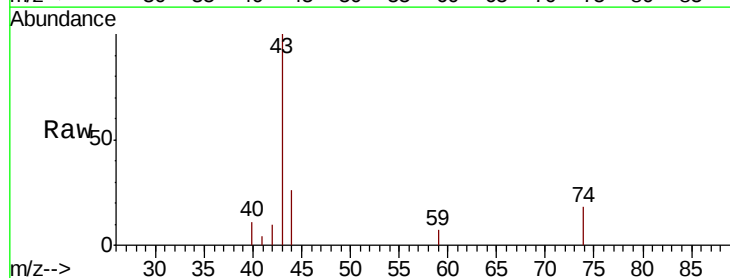
Acq: 26 Sep 2018 8:17

Tgt Ion: 43 Resp: 13907

Ion Ratio Lower Upper

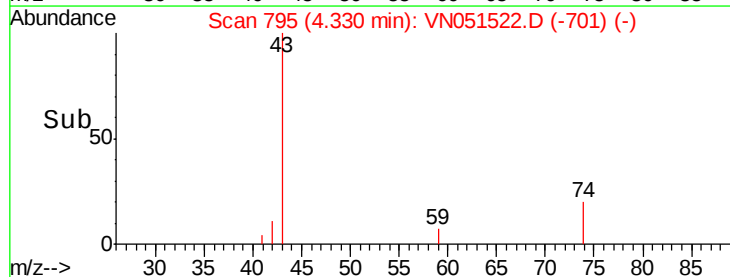
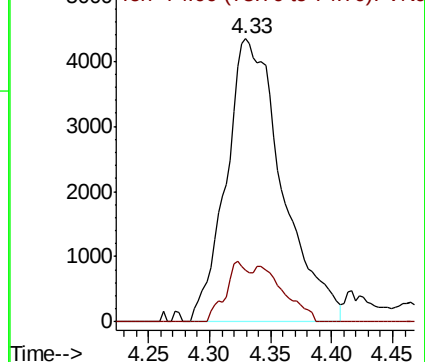
43 100

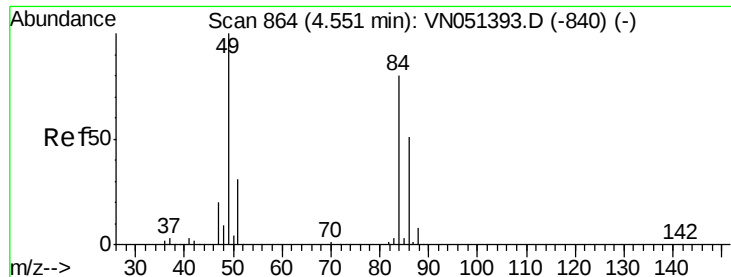
74 9.8 18.8 28.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methvlene Chloride

Concen: 1.100 ug/l

RT: 4.55 min Scan# 864

Delta R.T. 0.00 min

Lab File: VN051522.D

Acq: 26 Sep 2018 8:17

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#11

Tot Ion: 84 Resp: 8459

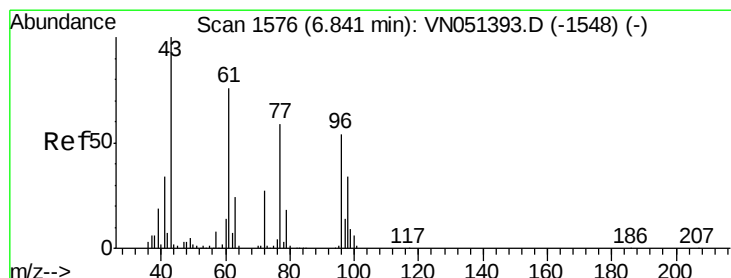
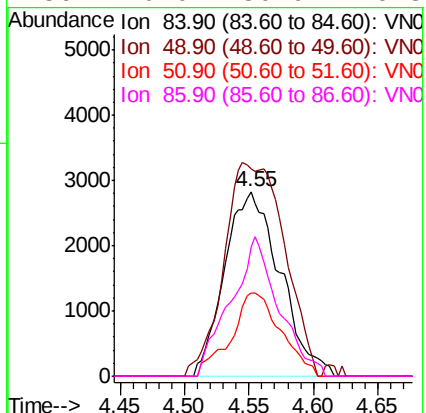
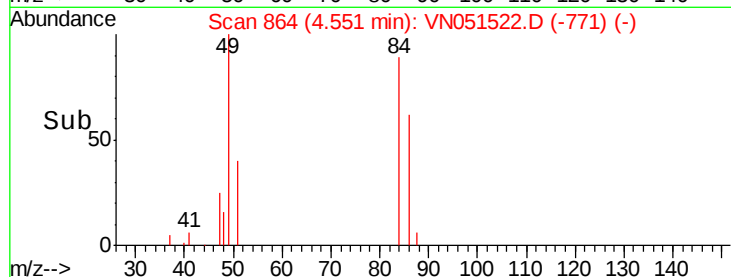
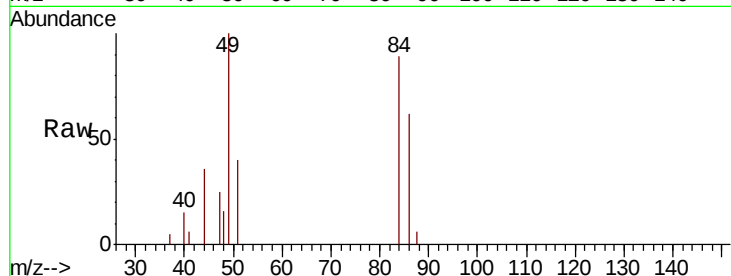
Ion Ratio Lower Upper

84 100

49 112.1 99.9 149.9

51 45.3 31.4 47.2

86 70.0 50.9 76.3



#25

2-Butanone

Concen: 0.966 ug/l

RT: 6.85 min Scan# 1579

Delta R.T. 0.01 min

Lab File: VN051522.D

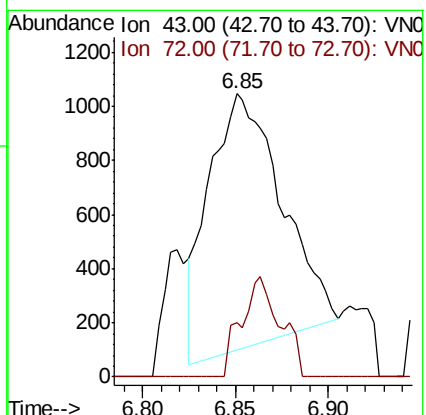
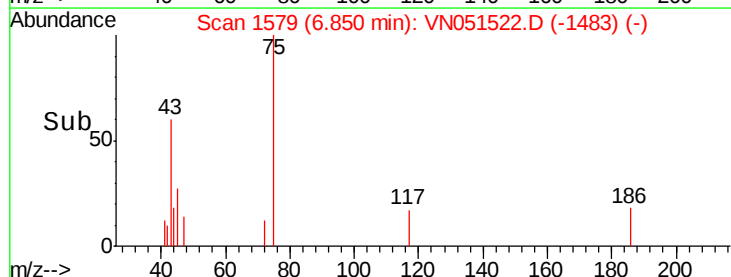
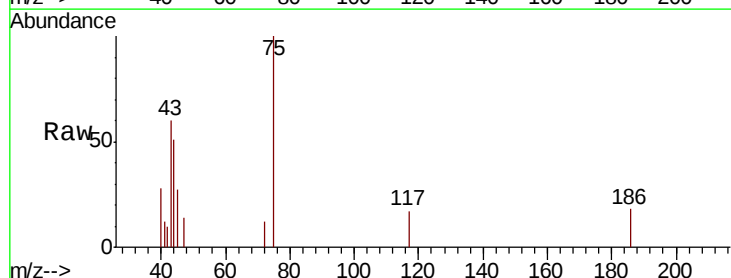
Acq: 26 Sep 2018 8:17

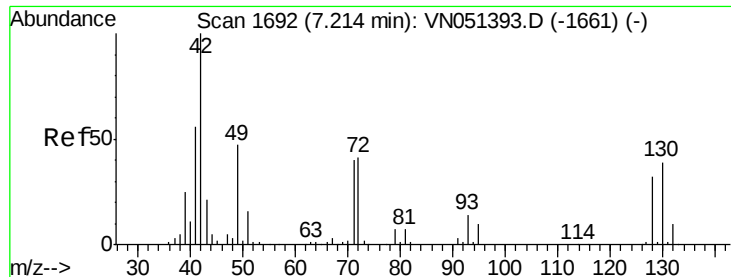
Tgt Ion: 43 Resp: 2570

Ion Ratio Lower Upper

43 100

72 24.3 21.8 32.6





#29

Tetrahydrofuran

Concen: 0.683 ug/l

RT: 7.22 min Scan# 1694

Delta R.T. 0.01 min

Lab File: VN051522.D

Acq: 26 Sep 2018 8:17

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#11

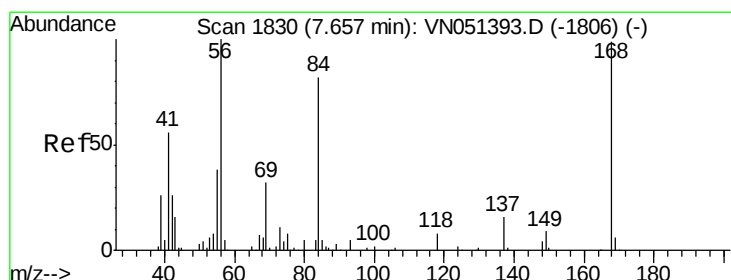
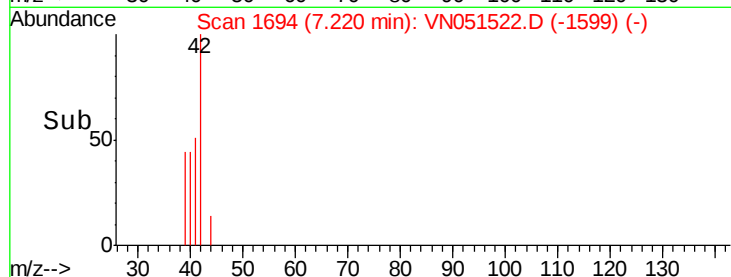
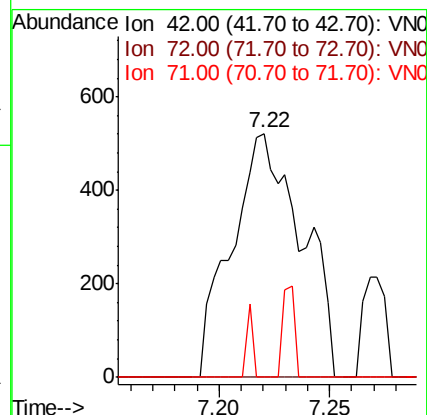
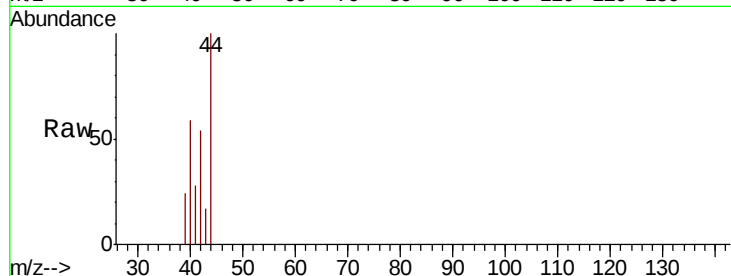
Tot Ion: 42 Resp: 1151

Ion Ratio Lower Upper

42 100

72 0.0 34.3 51.5#

71 2.6 32.2 48.4#



#31

Cyclohexane

Concen: 1.005 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN051522.D

Acq: 26 Sep 2018 8:17

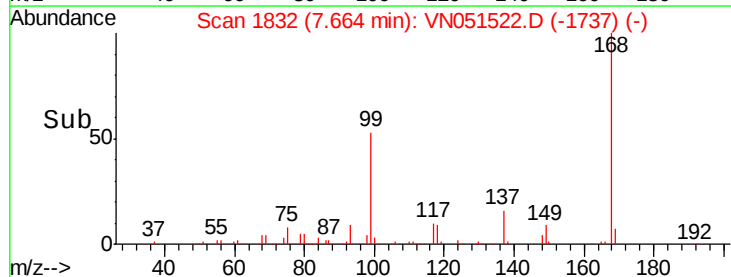
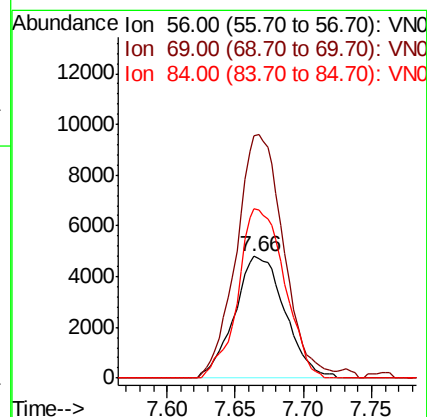
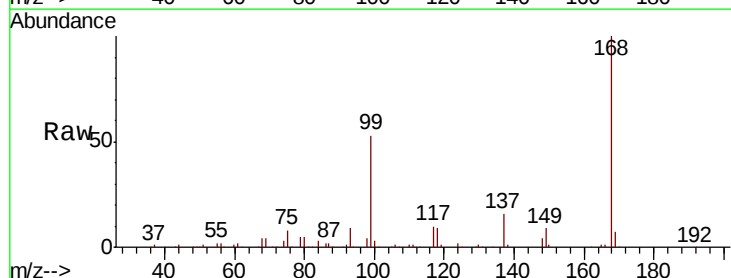
Tgt Ion: 56 Resp: 12300

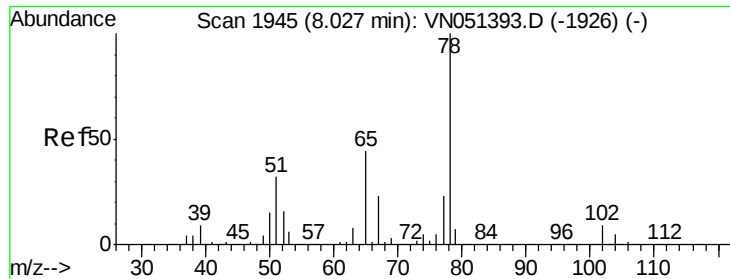
Ion Ratio Lower Upper

56 100

69 199.6 25.8 38.6#

84 139.4 66.0 99.0#

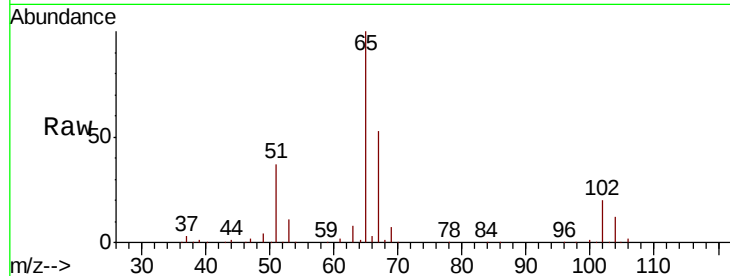




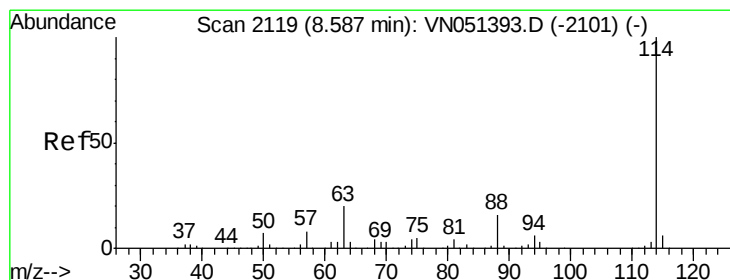
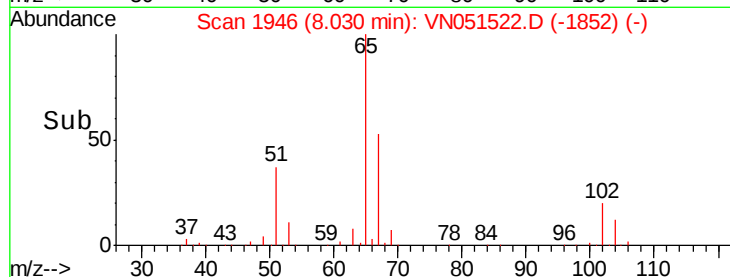
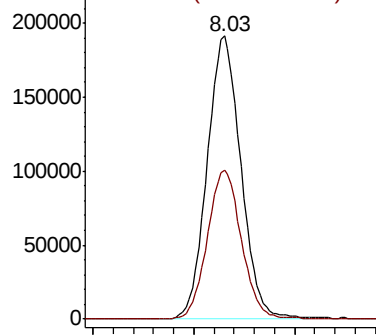
#33
 1,2-Dichloroethane-d4
 Concen: 57.012 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051522.D
 Acq: 26 Sep 2018 8:17

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#11

Tot Ion: 65 Resp: 443055
 Ion Ratio Lower Upper
 65 100
 67 53.4 0.0 107.8

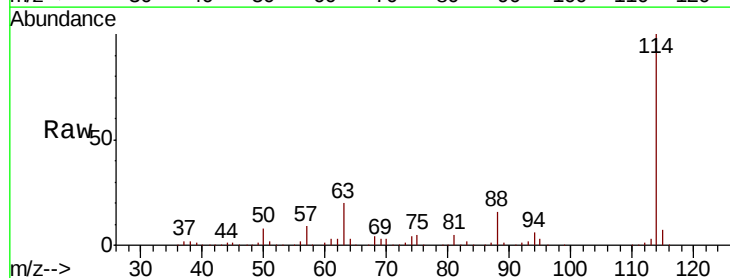


Abundance Ion 64.90 (64.60 to 65.60): VN051393.D (-1926) (-)
 Ion 66.90 (66.60 to 67.60): VN051393.D (-1926) (-)

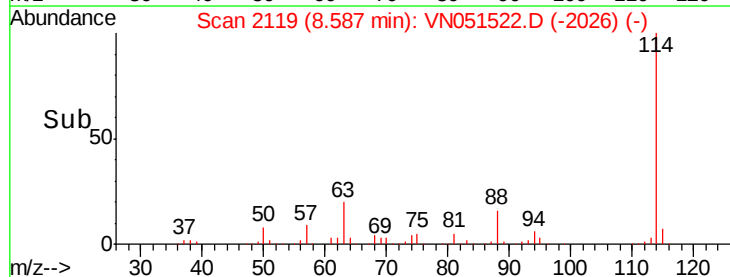
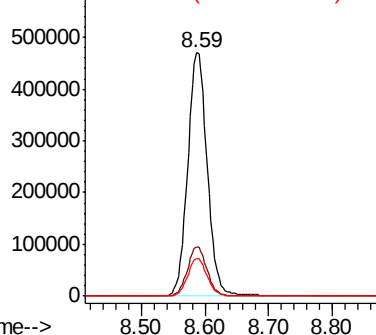


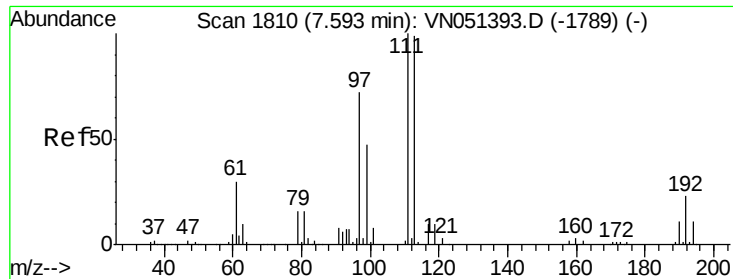
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN051522.D
 Acq: 26 Sep 2018 8:17

Tgt Ion: 114 Resp: 1004967
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 40.2
 88 15.7 0.0 31.4



Abundance Ion 113.90 (113.60 to 114.60): VN051393.D (-2101) (-)
 Ion 63.00 (62.70 to 63.70): VN051393.D (-2101) (-)
 Ion 87.90 (87.60 to 88.60): VN051393.D (-2101) (-)

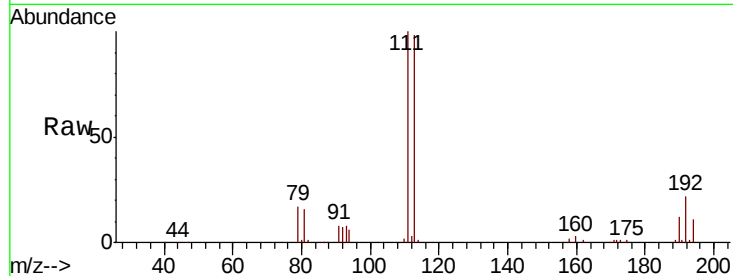




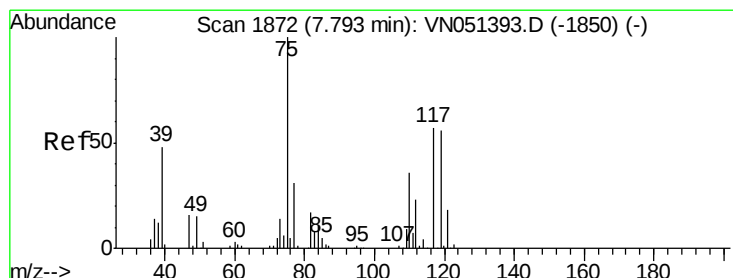
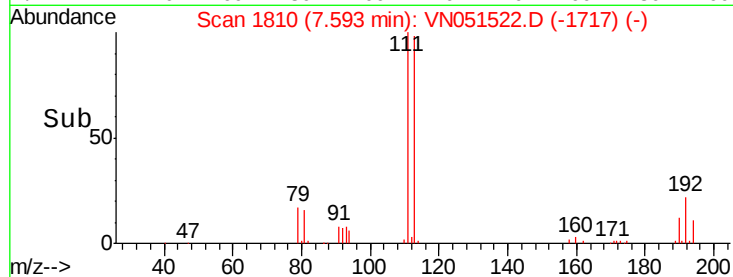
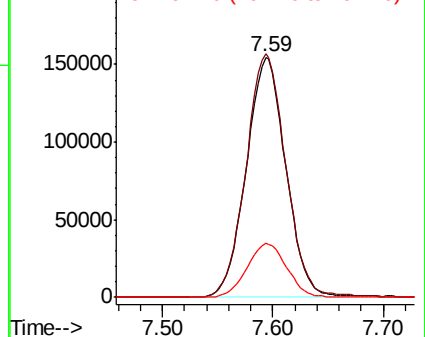
#35
 Dibromofluoromethane
 Concen: 47.737 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN051522.D
 Acq: 26 Sep 2018 8:17

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#11

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.0	82.6	123.8
192	22.5	18.0	27.0

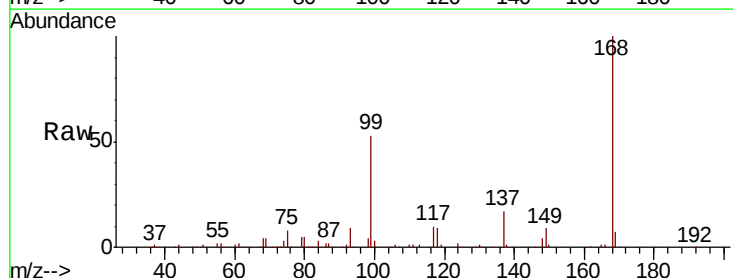


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

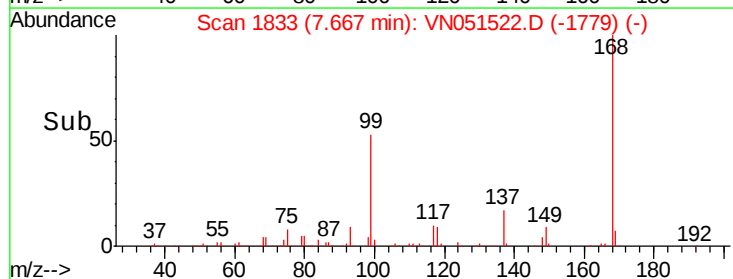
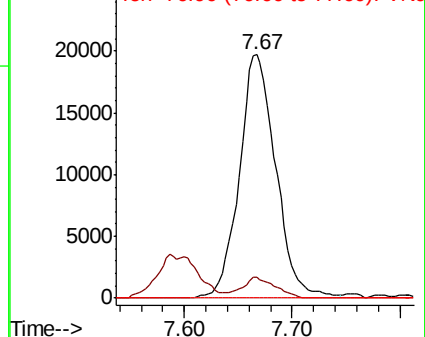


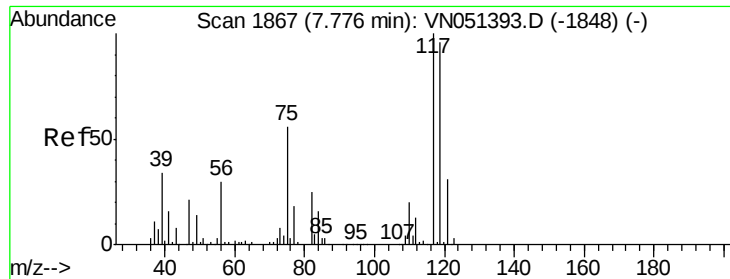
#36
 1,1-Dichloropropene
 Concen: 3.980 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN051522.D
 Acq: 26 Sep 2018 8:17

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.9	18.1	54.3#
77	0.0	25.6	38.4#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 4.673 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN051522.D

Acq: 26 Sep 2018 8:17

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#11

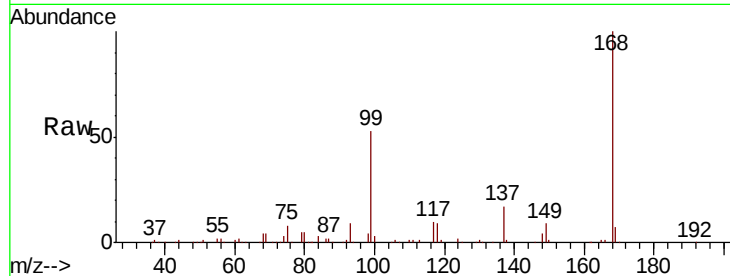
Tot Ion:117 Resp: 56887

Ion Ratio Lower Upper

117 100

119 5.4 76.9 115.3#

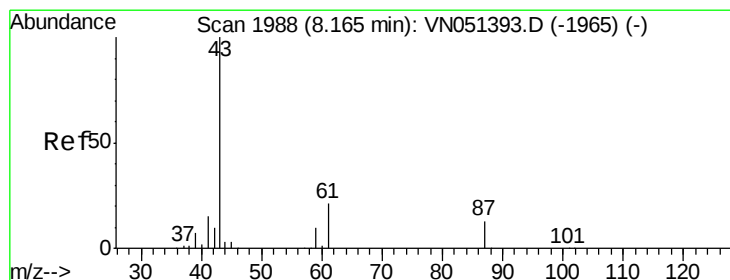
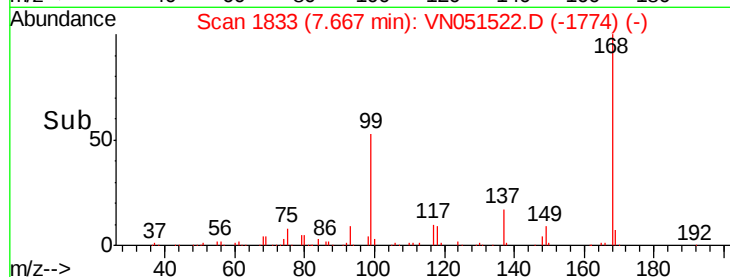
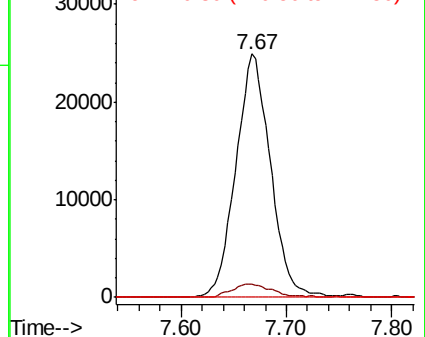
121 0.0 24.6 37.0#



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: 25.950 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051522.D

Acq: 26 Sep 2018 8:17

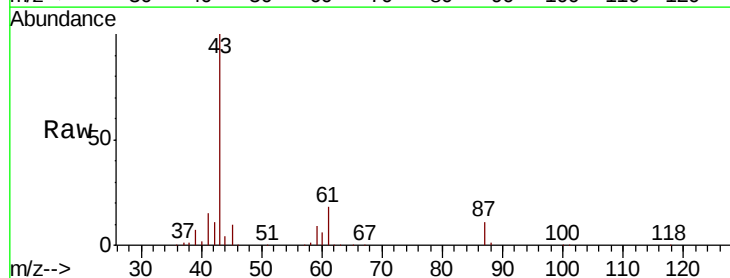
Tgt Ion: 43 Resp: 313979

Ion Ratio Lower Upper

43 100

61 16.7 16.8 25.2#

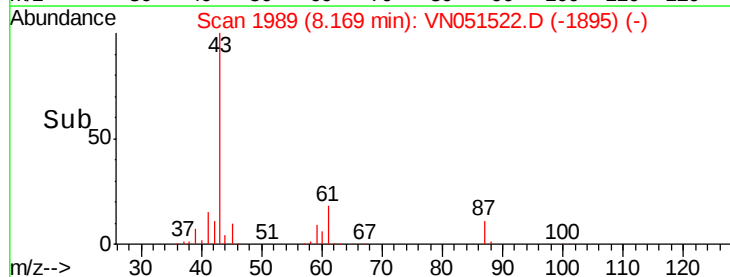
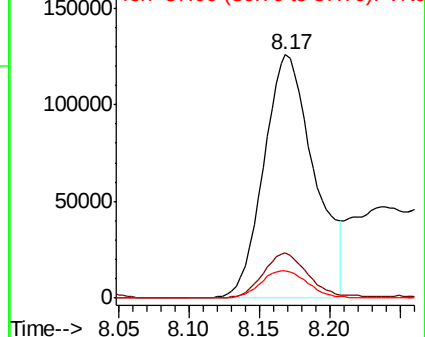
87 10.5 10.7 16.1#

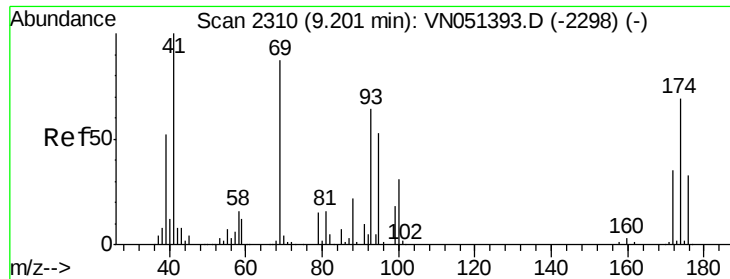


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#48

Methyl methacrylate

Concen: 1.178 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN051522.D

Acq: 26 Sep 2018 8:17

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#11

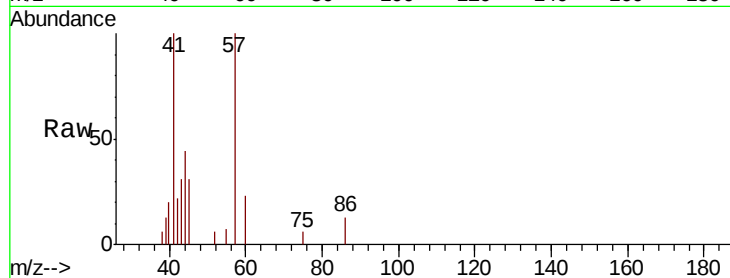
Tot Ion: 41 Resp: 7104

Ion Ratio Lower Upper

41 100

69 0.0 70.4 105.6#

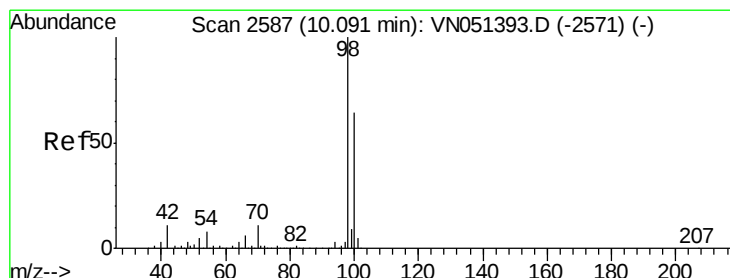
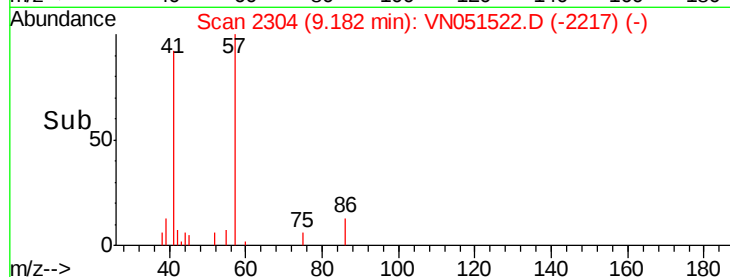
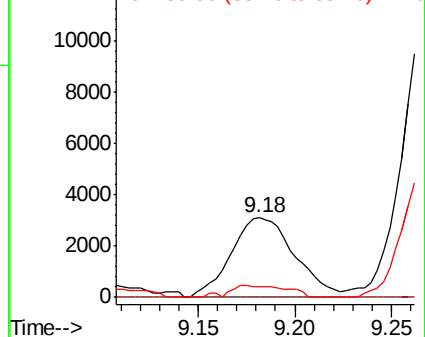
39 6.0 43.8 65.8#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#50

Toluene-d8

Concen: 45.743 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN051522.D

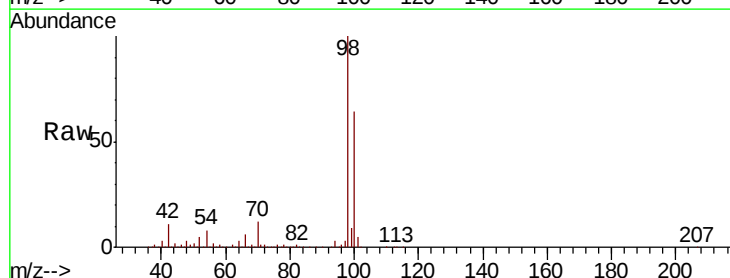
Acq: 26 Sep 2018 8:17

Tgt Ion: 98 Resp: 1384264

Ion Ratio Lower Upper

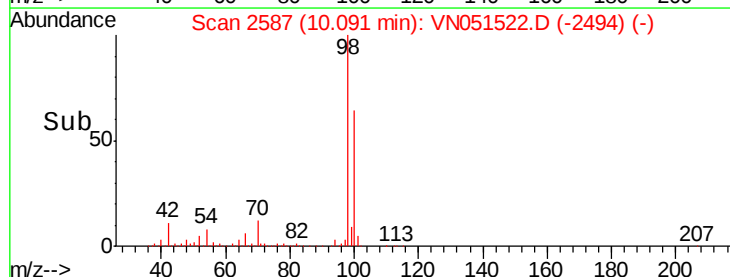
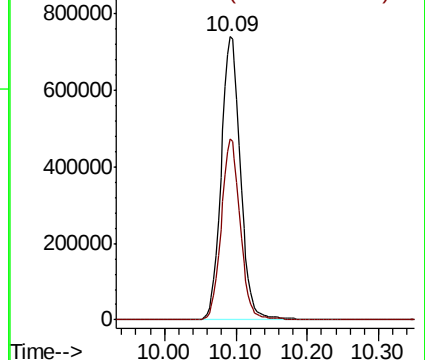
98 100

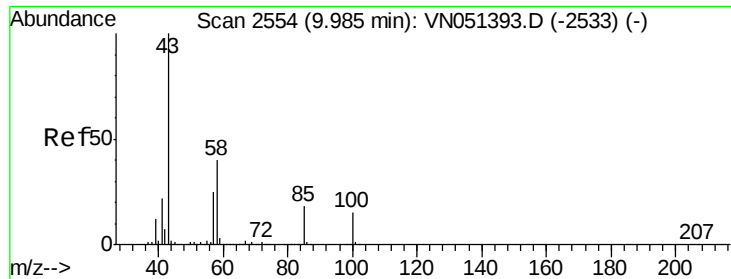
100 62.8 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0

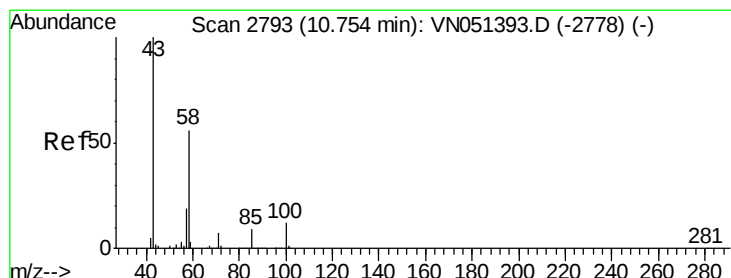
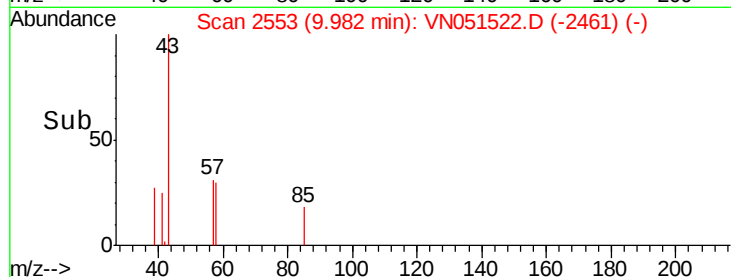
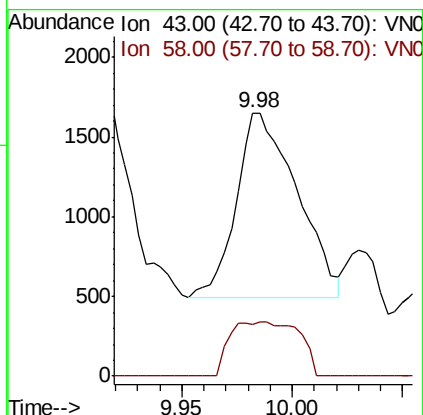
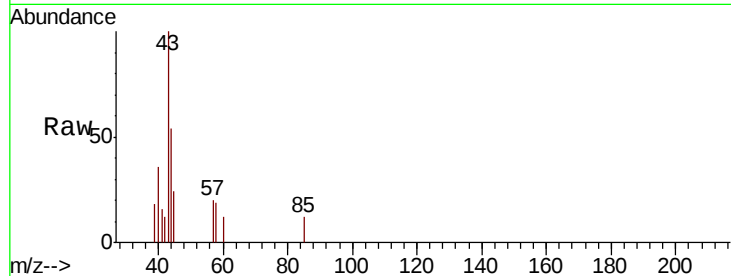




#51
 4-Methyl-2-Pentanone
 Concen: 0.331 ug/l
 RT: 9.98 min Scan# 2553
 Delta R.T. -0.00 min
 Lab File: VN051522.D
 Acq: 26 Sep 2018 8:17

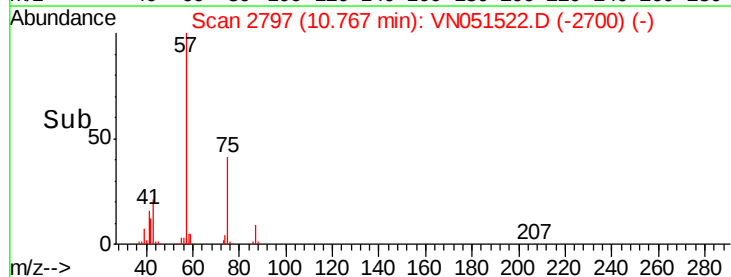
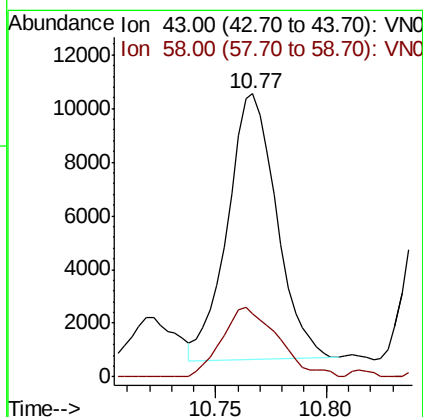
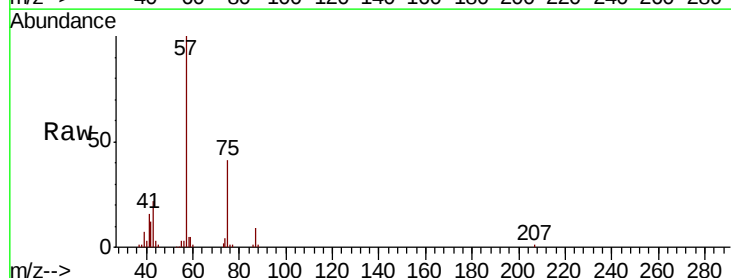
Instrument :
 MSVOA_N
 ClientSampleId :
 PB113167ZHE#11

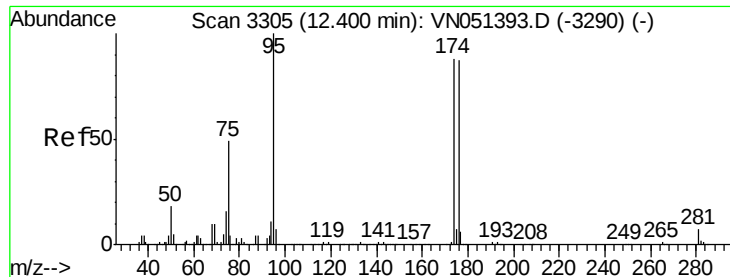
Tot Ion: 43 Resp: 2203
 Ion Ratio Lower Upper
 43 100
 58 33.6 31.5 47.3



#59
 2-Hexanone
 Concen: 3.529 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.01 min
 Lab File: VN051522.D
 Acq: 26 Sep 2018 8:17

Tgt Ion: 43 Resp: 15225
 Ion Ratio Lower Upper
 43 100
 58 30.1 27.7 83.0

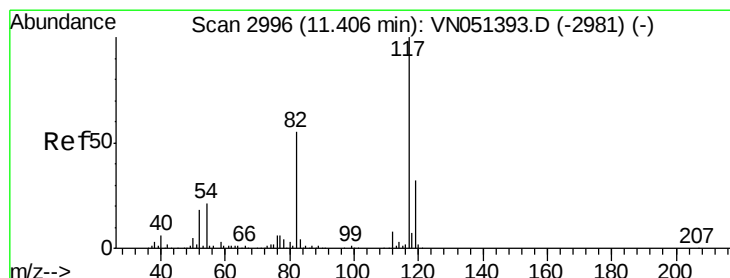
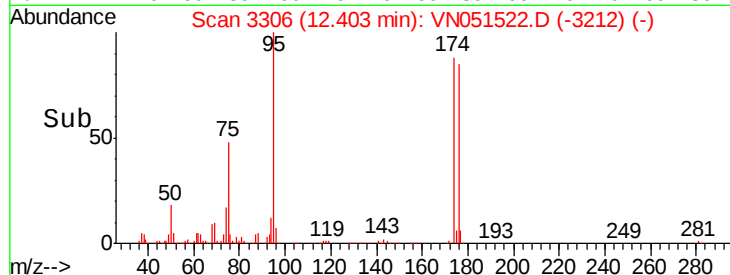
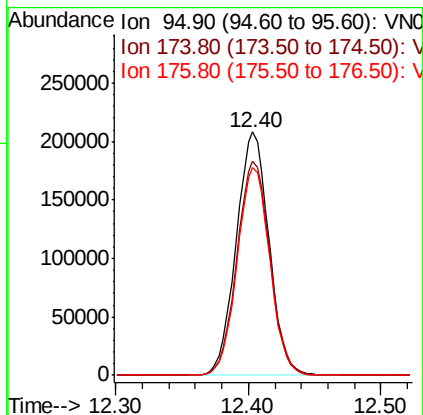
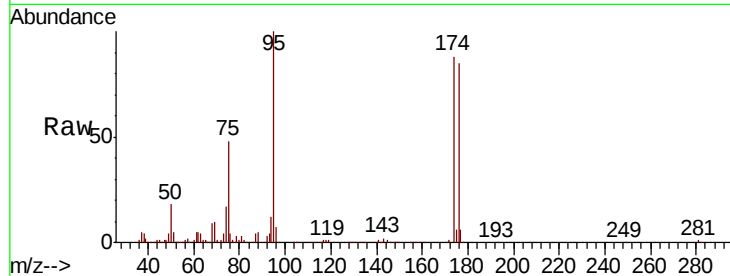




#62
4-Bromofluorobenzene
Concen: 36.340 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051522.D
Acq: 26 Sep 2018 8:17

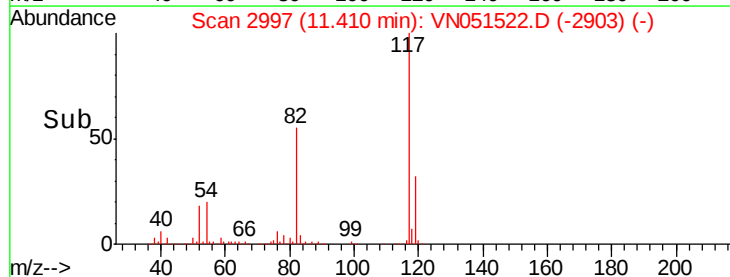
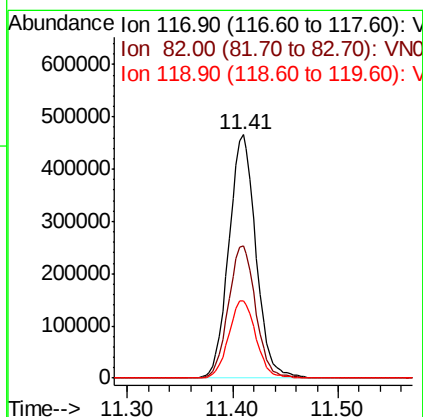
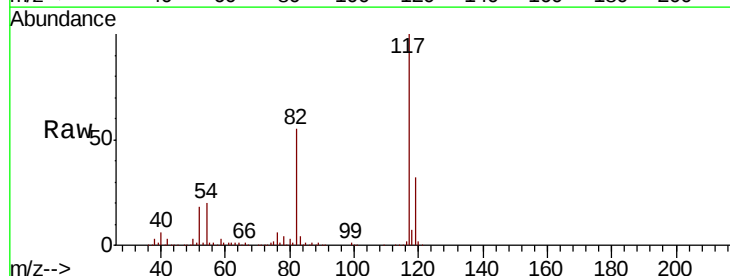
Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#11

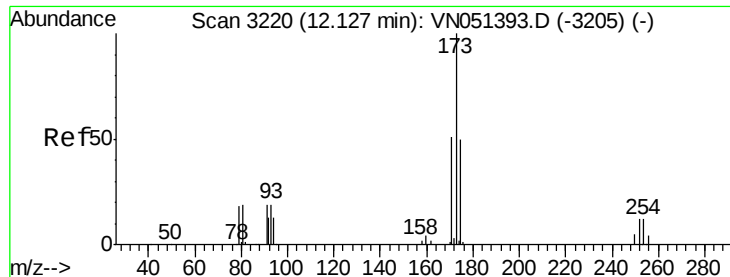
Tot Ion: 95 Resp: 355750
Ion Ratio Lower Upper
95 100
174 89.3 0.0 181.6
176 85.0 0.0 176.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051522.D
Acq: 26 Sep 2018 8:17

Tgt Ion: 117 Resp: 823948
Ion Ratio Lower Upper
117 100
82 54.5 44.2 66.2
119 31.9 25.9 38.9





#71

Bromoform

Concen: 0.321 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN051522.D

Acq: 26 Sep 2018 8:17

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#11

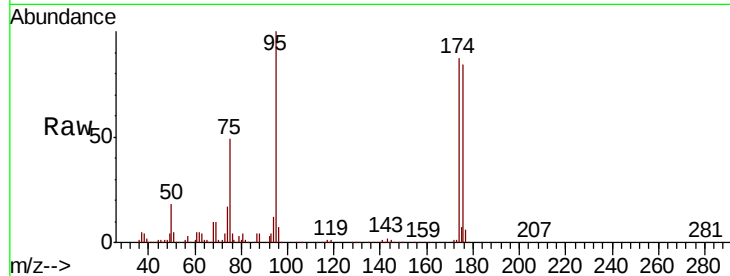
Tot Ion:173 Resp: 1757

Ion Ratio Lower Upper

173 100

175 1118.0 24.8 74.3#

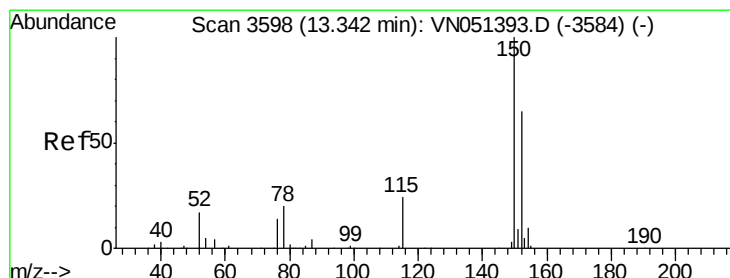
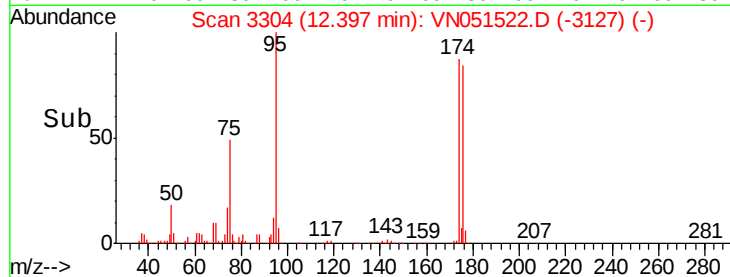
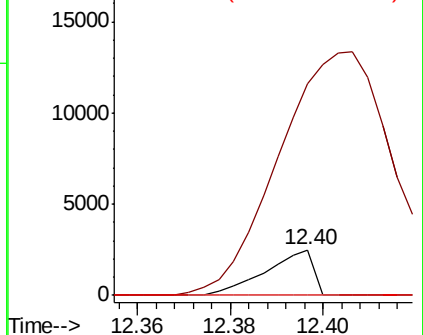
254 0.0 0.2 0.2#



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: VN051522.D

Acq: 26 Sep 2018 8:17

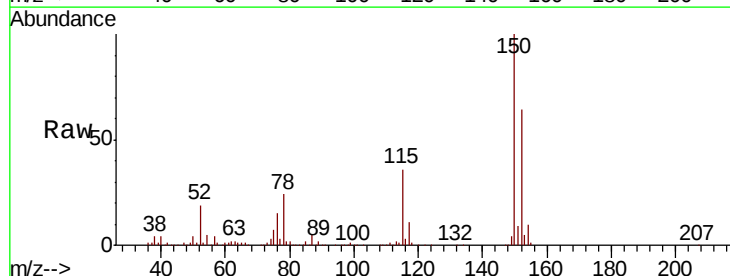
Tgt Ion:152 Resp: 259179

Ion Ratio Lower Upper

152 100

115 57.0 28.3 84.9

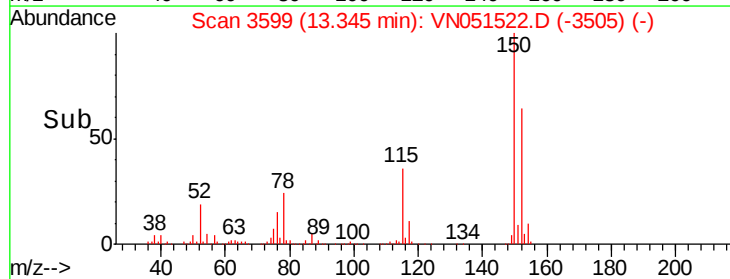
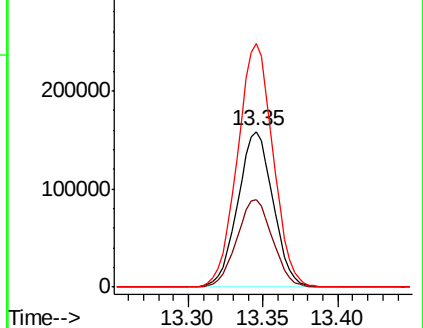
150 158.0 0.0 353.6

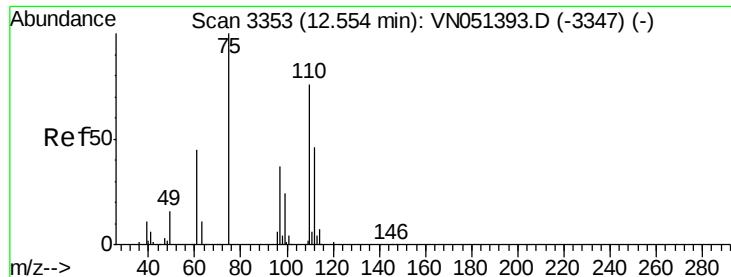


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 40.107 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051522.D

Acq: 26 Sep 2018 8:17

Instrument :

MSVOA_N

ClientSampleId :

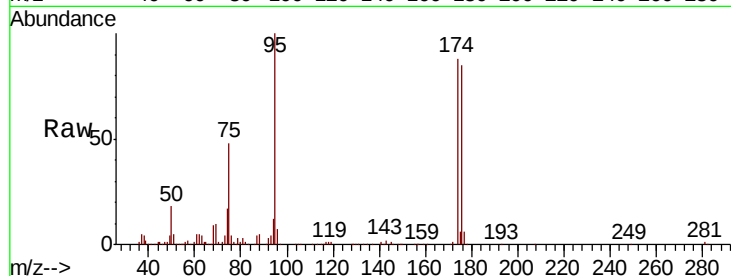
PB113167ZHE#11

Tot Ion: 75 Resp: 172563

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN051393.D (-3347) (-)

Ion 77.00 (76.70 to 77.70): VN051393.D (-3347) (-)

12.40

100000

80000

60000

40000

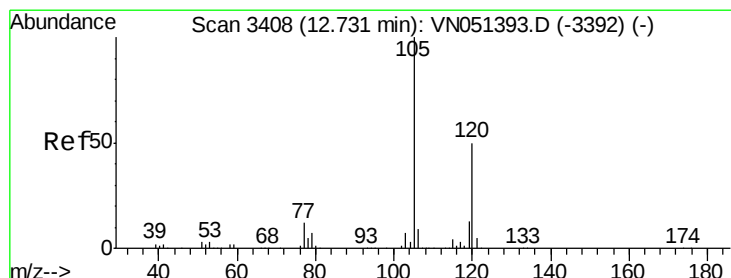
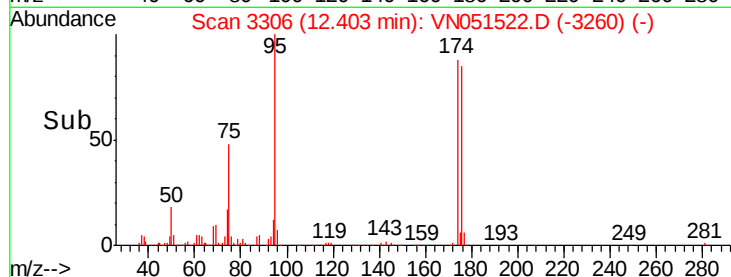
20000

0

12.40

12.50

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.235 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN051522.D

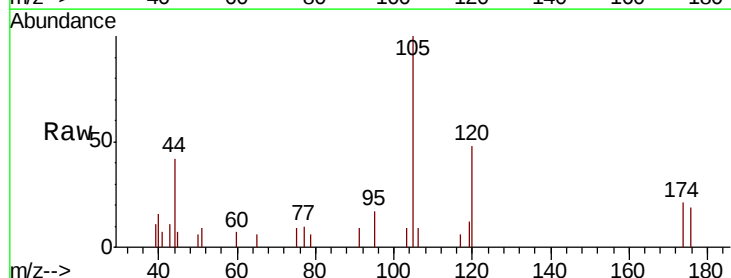
Acq: 26 Sep 2018 8:17

Tgt Ion: 105 Resp: 4186

Ion Ratio Lower Upper

105 100

120 46.7 24.8 74.4



Abundance Ion 105.00 (104.70 to 105.70): VN051393.D (-3392) (-)

Ion 120.00 (119.70 to 120.70): VN051393.D (-3392) (-)

12.73

3000

2500

2000

1500

1000

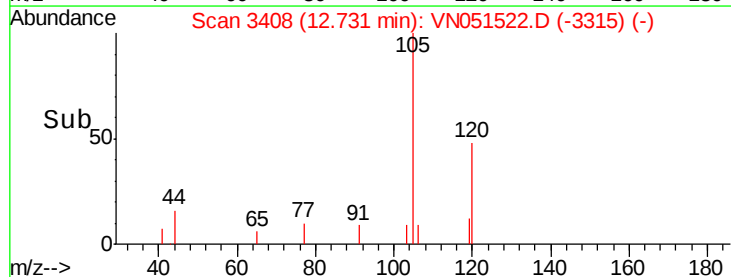
500

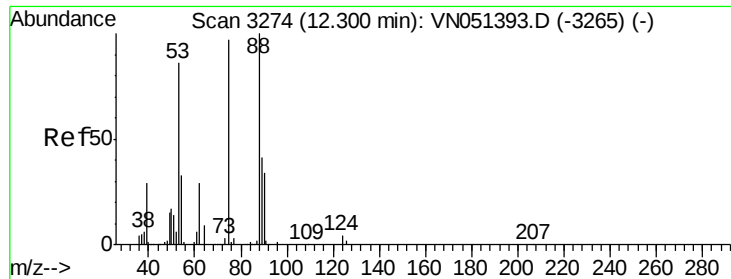
0

12.70

12.75

Time-->

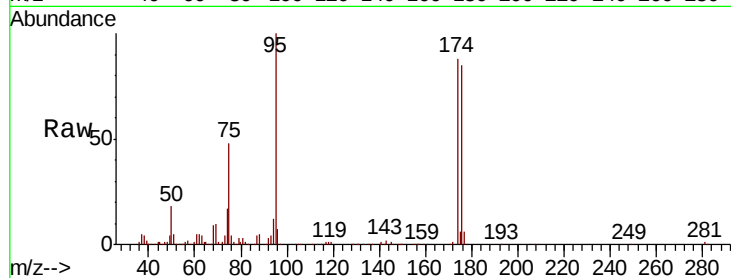




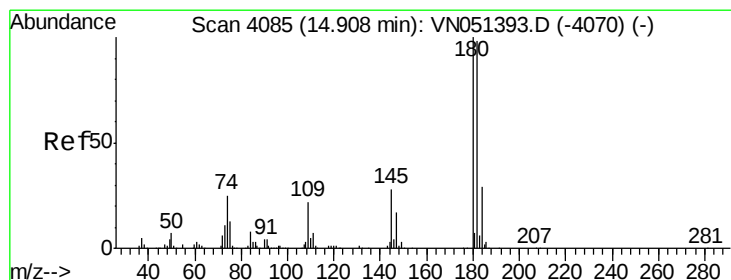
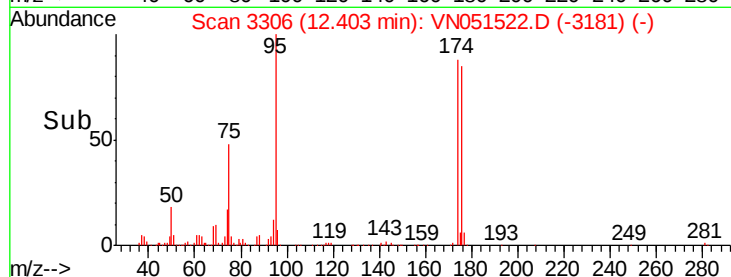
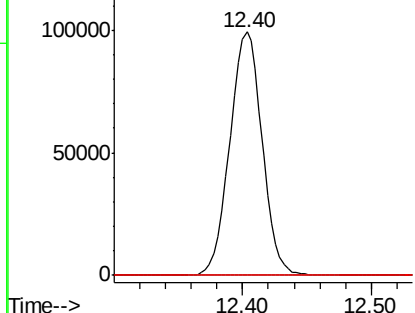
#81
trans-1,4-Dichloro-2-butene
Concen: 123.327 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.10 min
Lab File: VN051522.D
Acq: 26 Sep 2018 8:17

Instrument :
MSVOA_N
ClientSampleId :
PB113167ZHE#11

Tot Ion: 75 Resp: 172563
Ion Ratio Lower Upper
75 100
53 0.1 73.9 110.9#
89 0.0 36.7 55.1#

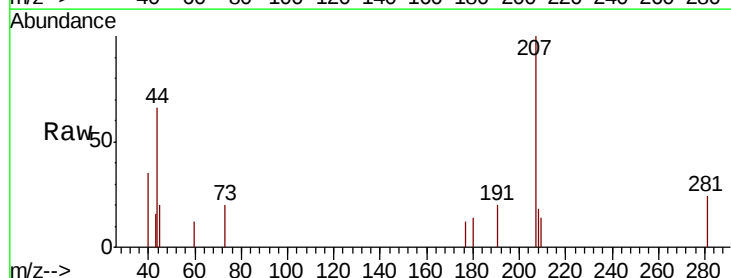


Abundance Ion 74.90 (74.60 to 75.60): VN051522.D (-3181) (-)
Ion 53.00 (52.70 to 53.70): VN051522.D (-3181) (-)
Ion 88.90 (88.60 to 89.60): VN051522.D (-3181) (-)

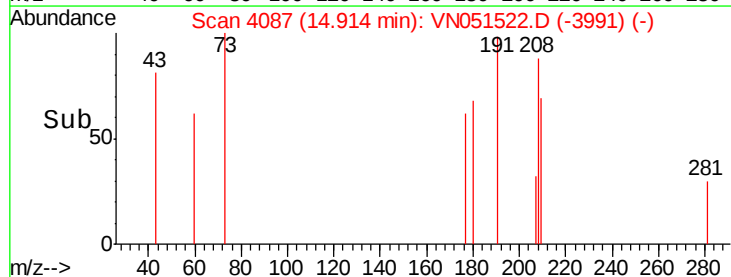
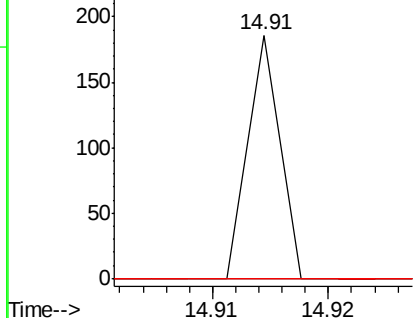


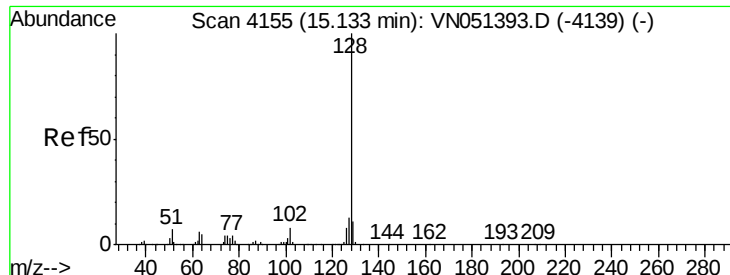
#93
1,2,4-Trichlorobenzene
Concen: 5.988 ug/l
RT: 14.91 min Scan# 4087
Delta R.T. 0.01 min
Lab File: VN051522.D
Acq: 26 Sep 2018 8:17

Tgt Ion: 180 Resp: 36
Ion Ratio Lower Upper
180 100
182 0.0 48.5 145.6#
145 0.0 14.1 42.4#



Abundance Ion 179.80 (179.50 to 180.50): VN051522.D (-3991) (-)
Ion 181.80 (181.50 to 182.50): VN051522.D (-3991) (-)
Ion 144.80 (144.50 to 145.50): VN051522.D (-3991) (-)





#95

Naphthalene

Concen: 8.090 ug/l

RT: 15.13 min Scan# 4153

Delta R.T. -0.01 min

Lab File: VN051522.D

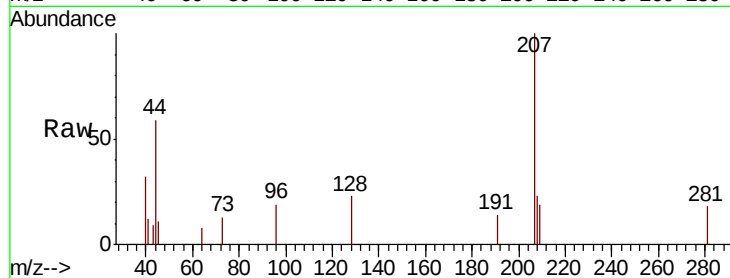
Acq: 26 Sep 2018 8:17

Instrument :

MSVOA_N

ClientSampleId :

PB113167ZHE#11



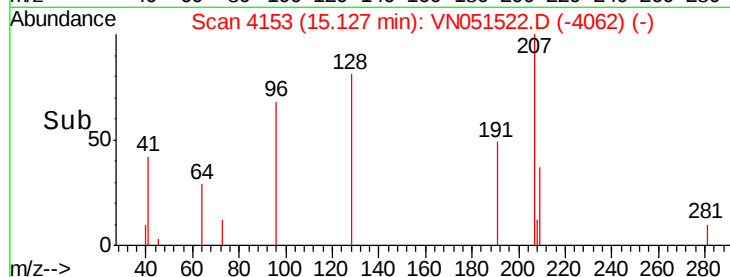
Tot Ion:128 Resp: 523

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

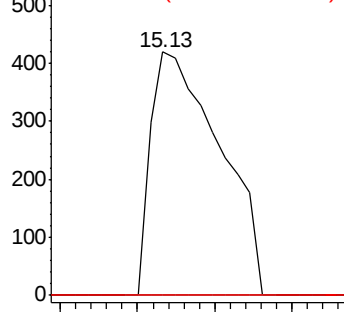
129 0.0 8.6 12.8#



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 15.12 15.14 15.16