

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121018\
 Data File : VN052755.D
 Acq On : 10 Dec 2018 16:03
 Operator : MD\SY
 Sample : PB115448ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 16 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115448ZHE#04

Quant Time: Dec 11 01:23:28 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1224899	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1891690	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1668729	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	657921	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	638136	47.85	ug/l	0.00
Spiked Amount			Recovery	=	95.70%	
35) Dibromofluoromethane	7.59	113	500957	42.96	ug/l	0.00
Spiked Amount			Recovery	=	85.92%	
50) Toluene-d8	10.09	98	2322021	51.15	ug/l	0.00
Spiked Amount			Recovery	=	102.30%	
62) 4-Bromofluorobenzene	12.40	95	732623	48.03	ug/l	0.00
Spiked Amount			Recovery	=	96.06%	

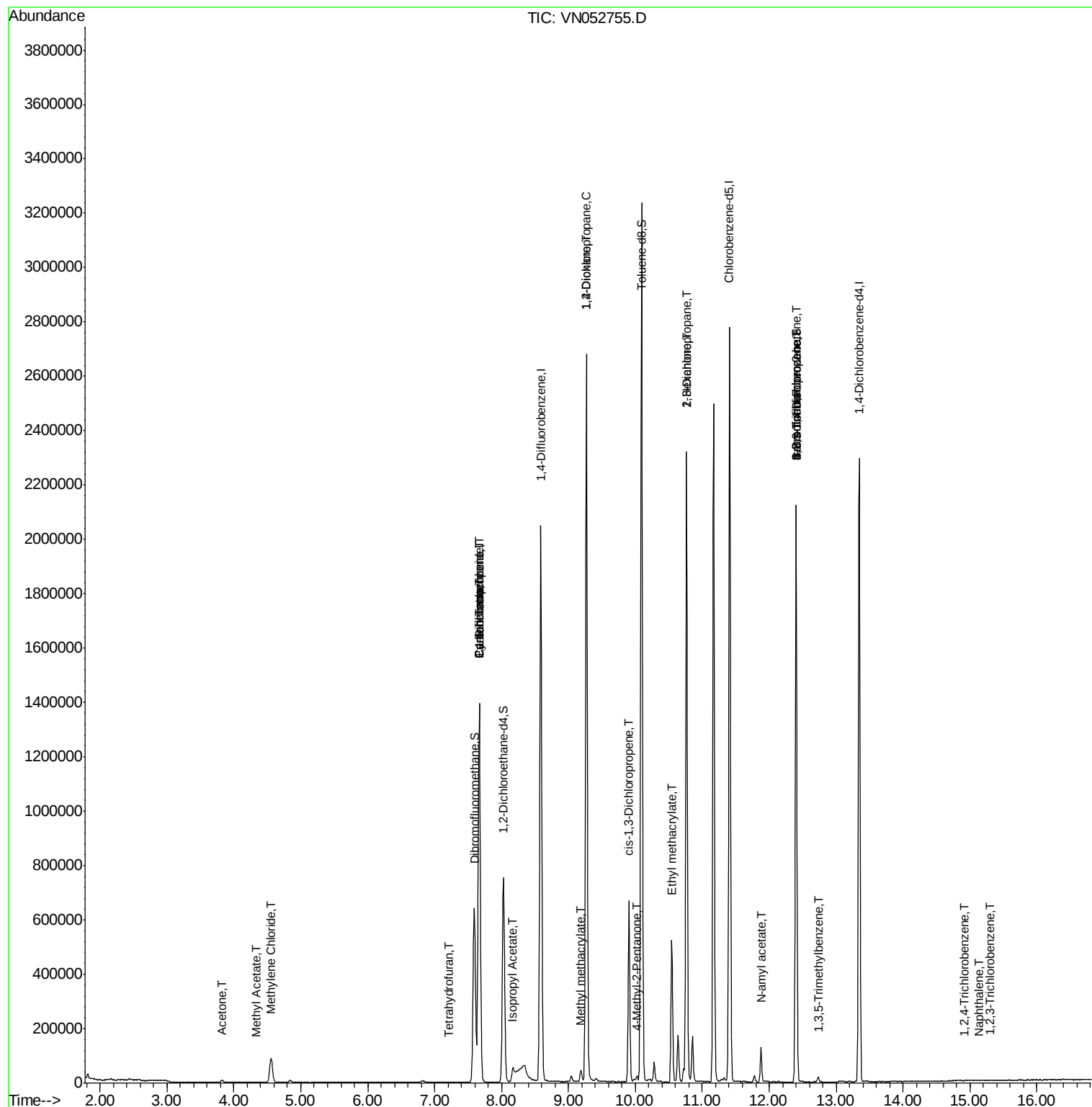
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	15794	4.490	ug/l	96
18) Methyl Acetate	4.33	43	3832	0.380	ug/l #	83
20) Methylene Chloride	4.56	84	68351	4.965	ug/l	97
29) Tetrahydrofuran	7.21	42	804	0.250	ug/l #	72
31) Cyclohexane	7.66	56	20747	0.542	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	84545	4.733	ug/l #	50
38) Carbon Tetrachloride	7.67	117	107925	6.674	ug/l #	16
43) Isopropyl Acetate	8.17	43	70694	3.832	ug/l #	75
45) 1,2-Dichloropropane	9.27	63	3269	0.231	ug/l #	43
48) Methyl methacrylate	9.18	41	13811	1.436	ug/l #	13
49) 1,4-Dioxane	9.27	88	180	1.803	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	17183	1.660	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	123546	6.291	ug/l #	61
56) Ethyl methacrylate	10.54	69	676	2.735	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	23719	1.207	ug/l #	43
59) 2-Hexanone	10.76	43	333715	48.034	ug/l #	51
71) Bromoform	12.40	173	3860	0.487	ug/l #	1
74) N-amyl acetate	11.88	43	39260	3.011	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	349031	34.403	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	8327	0.202	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	349031	114.888	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	304	2.854	ug/l #	48
95) Naphthalene	15.13	128	945	3.464	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	67	2.733	ug/l #	1

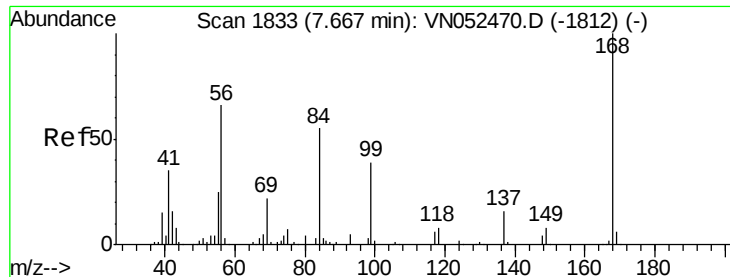
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 11 01:23:28 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
Quant Title : SW846 8260
QLast Update : Mon Dec 03 03:24:02 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: VN052755.D

Acq: 10 Dec 2018 16:03

Instrument :

MSVOA_N

ClientSampleId :

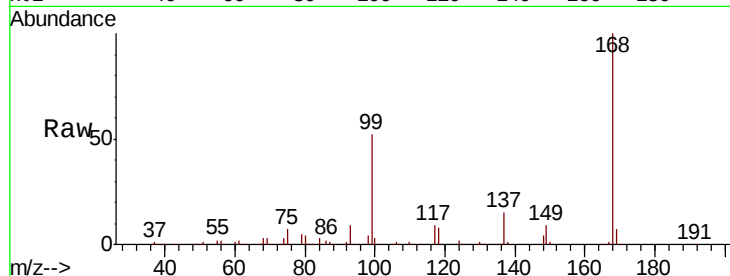
PB115448ZHE#04

Tot Ion:168 Resp: 1224899

Ion Ratio Lower Upper

168 100

99 51.7 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): VN052755.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052755.D (-1740) (-)

7.67

600000

500000

400000

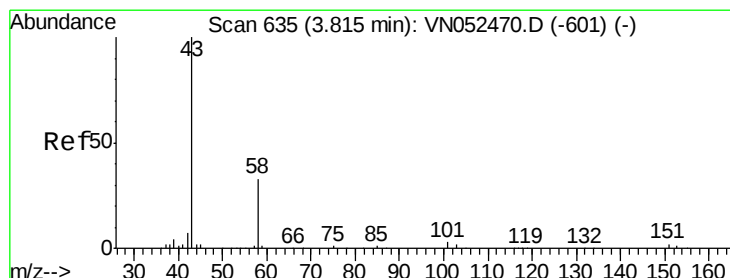
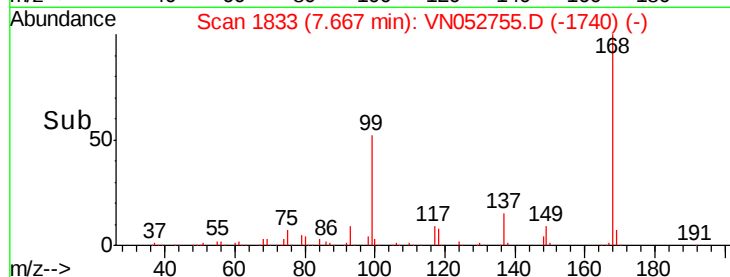
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 4.490 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052755.D

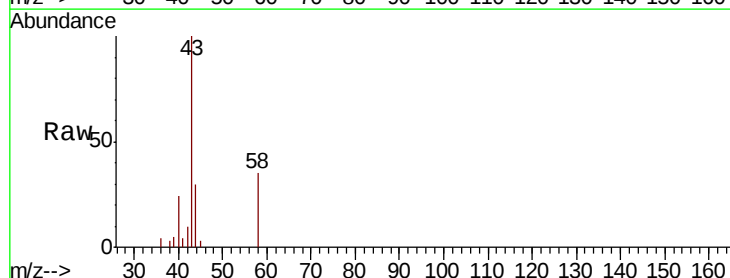
Acq: 10 Dec 2018 16:03

Tgt Ion: 43 Resp: 15794

Ion Ratio Lower Upper

43 100

58 34.5 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN052755.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN052755.D (-542) (-)

3.82

6000

5000

4000

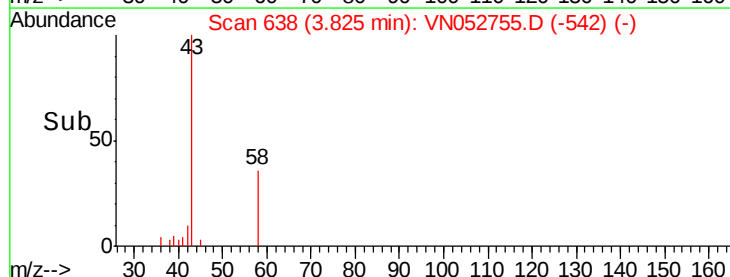
3000

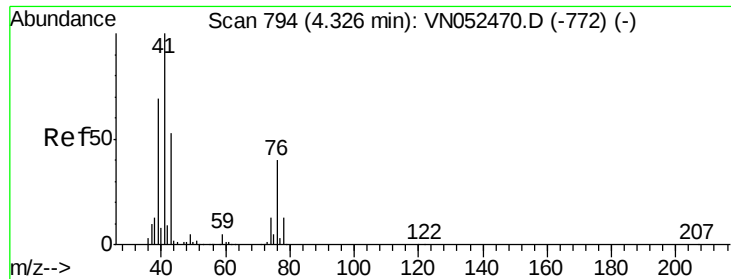
2000

1000

0

Time-->

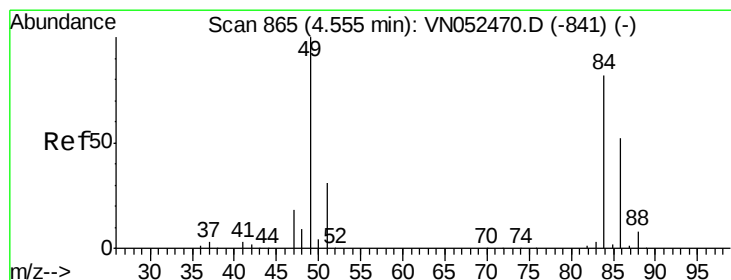
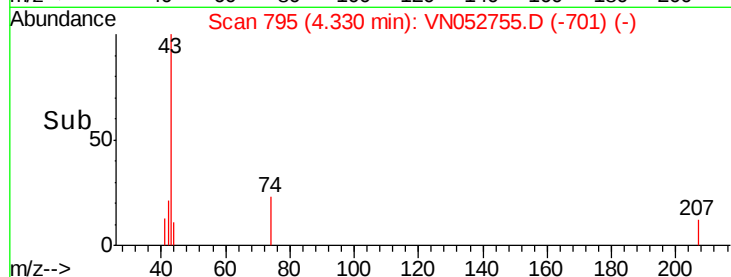
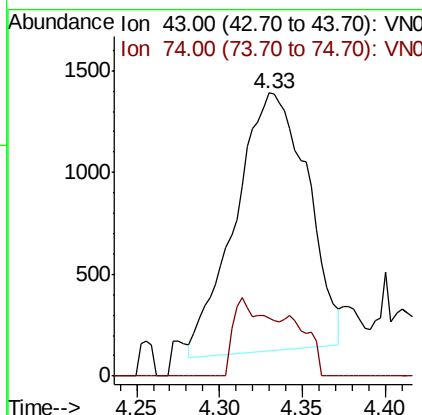
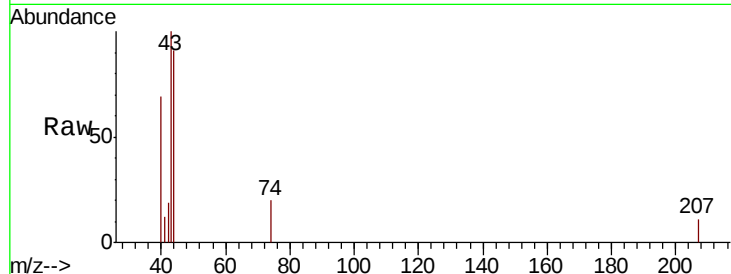




#18
Methyl Acetate
Concen: 0.380 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052755.D
Acq: 10 Dec 2018 16:03

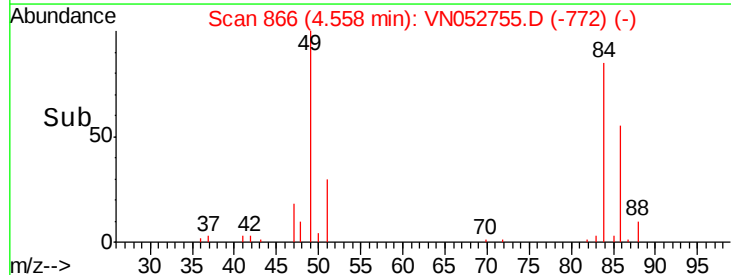
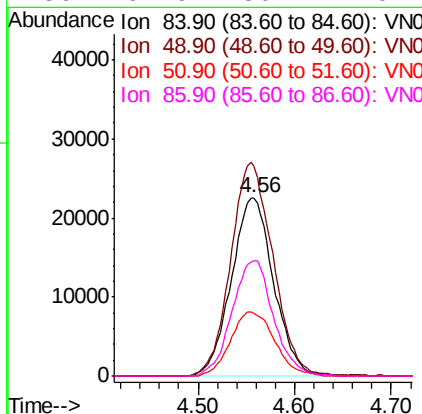
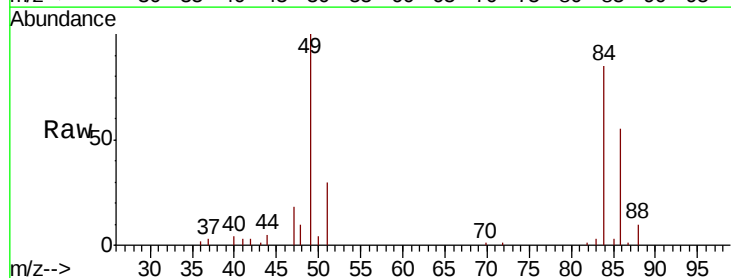
Instrument :
MSVOA_N
ClientSampleId :
PB115448ZHE#04

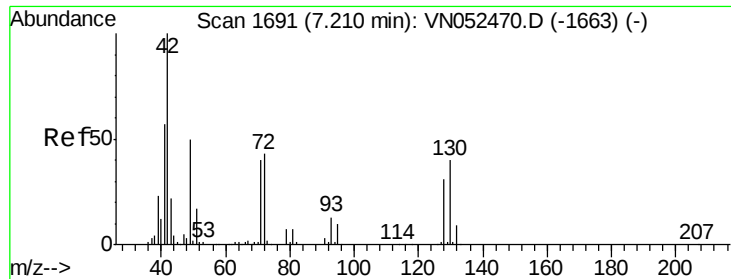
Tot Ion: 43 Resp: 3832
Ion Ratio Lower Upper
43 100
74 15.2 18.6 27.8#



#20
Methylene Chloride
Concen: 4.965 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052755.D
Acq: 10 Dec 2018 16:03

Tgt Ion: 84 Resp: 68351
Ion Ratio Lower Upper
84 100
49 117.9 98.0 147.0
51 35.3 30.1 45.1
86 64.9 50.7 76.1





#29

Tetrahydrofuran

Concen: 0.250 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VN052755.D

Acq: 10 Dec 2018 16:03

Instrument :

MSVOA_N

ClientSampleId :

PB115448ZHE#04

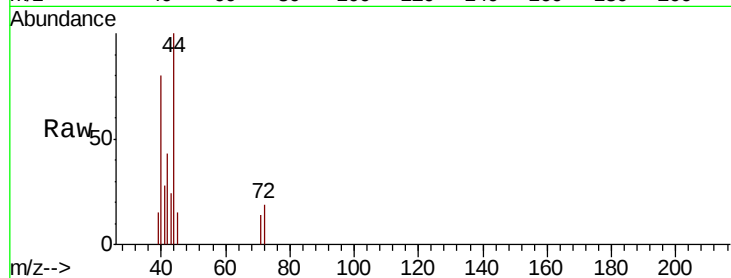
Tot Ion: 42 Resp: 804

Ion Ratio Lower Upper

42 100

72 28.1 33.3 49.9#

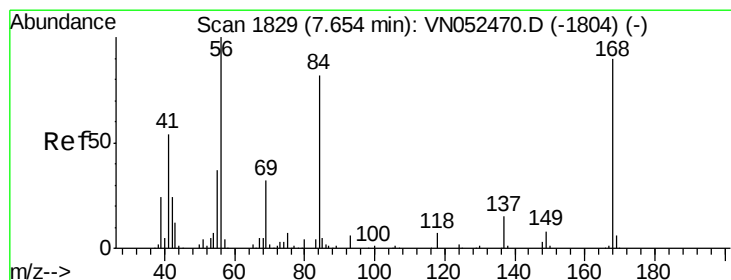
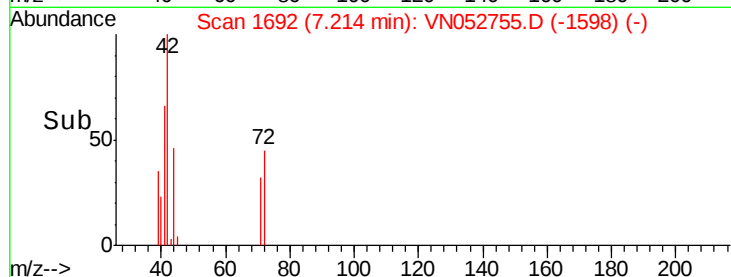
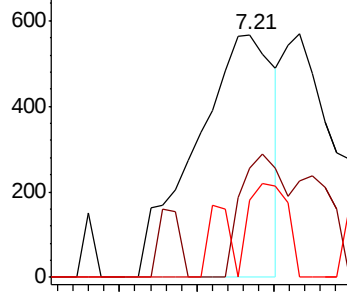
71 19.0 32.0 48.0#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 0.542 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN052755.D

Acq: 10 Dec 2018 16:03

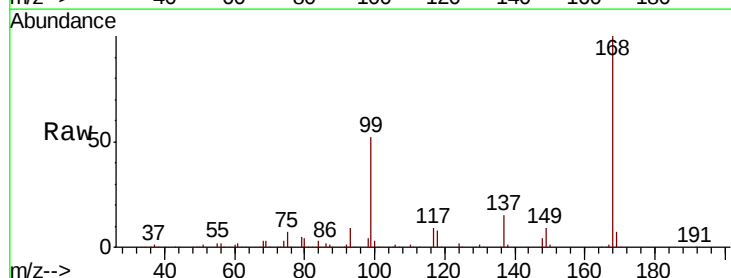
Tgt Ion: 56 Resp: 20747

Ion Ratio Lower Upper

56 100

69 173.4 25.8 38.6#

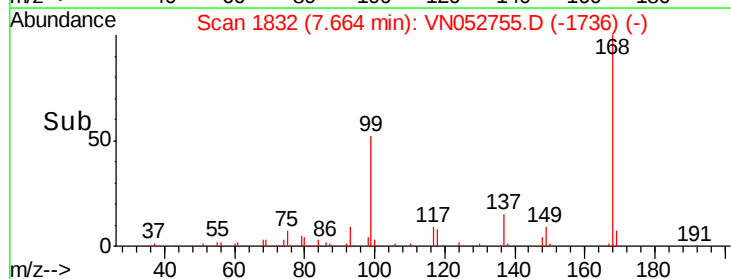
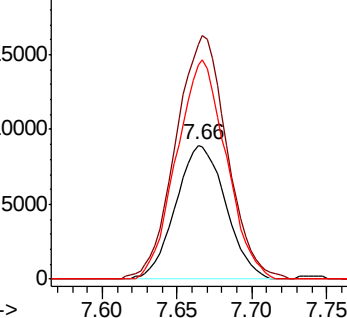
84 160.4 65.3 97.9#

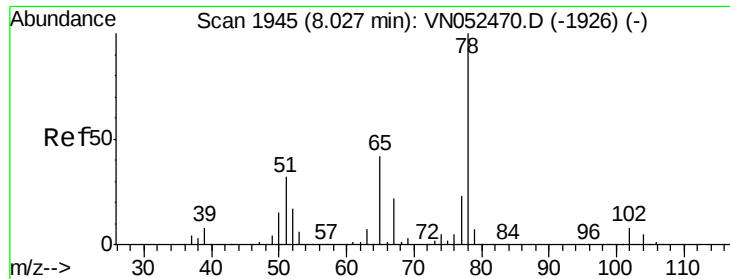


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

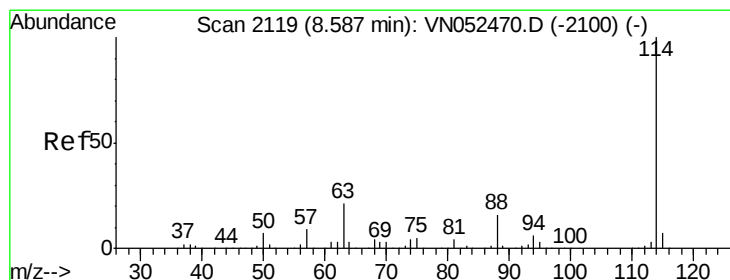
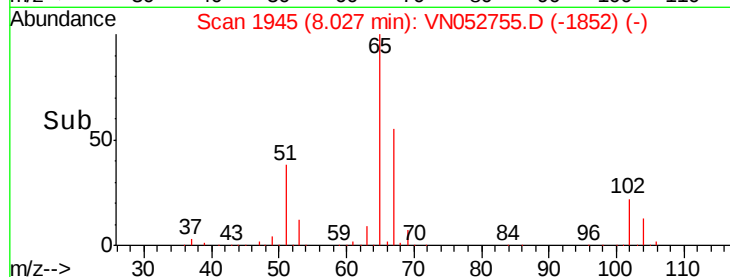
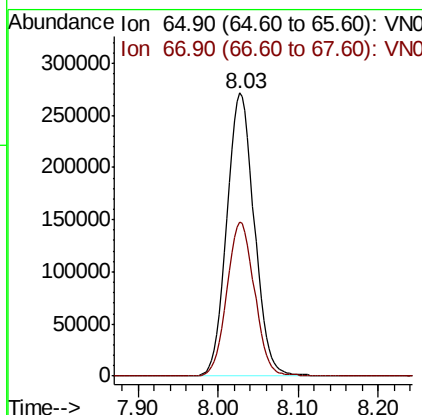
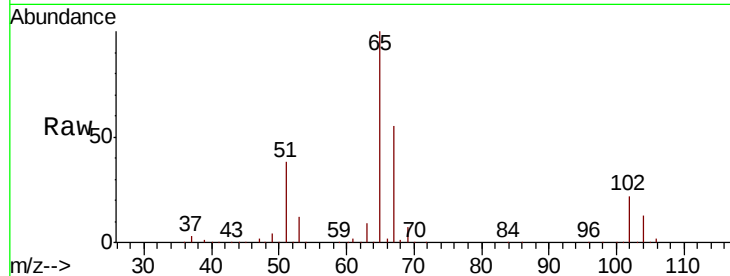




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN052755.D
 Acq: 10 Dec 2018 16:03

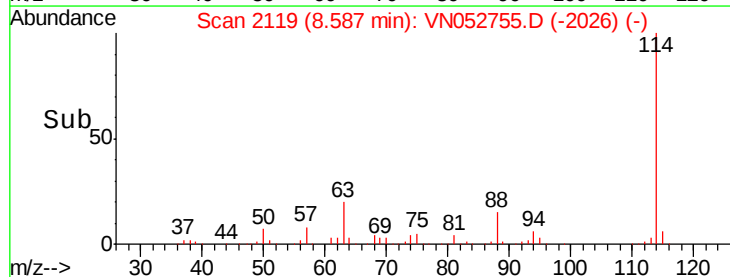
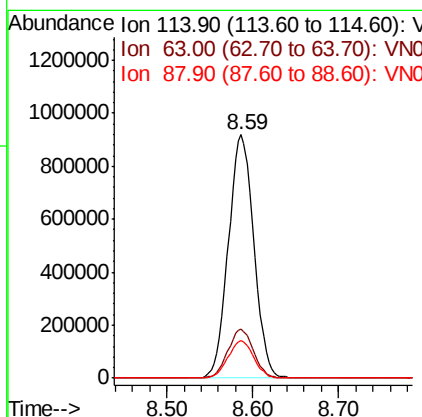
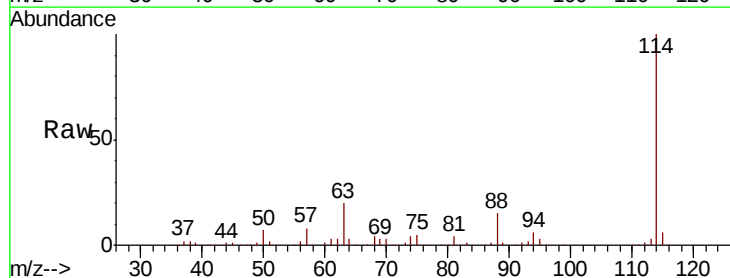
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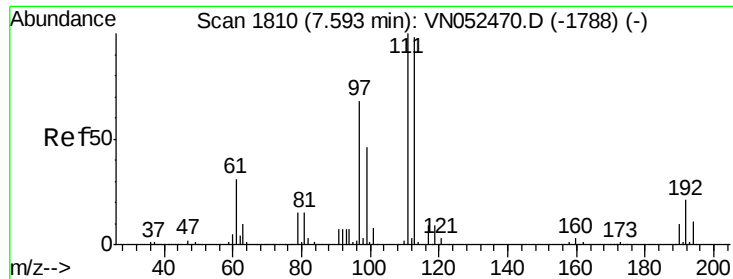
Tot Ion: 65 Resp: 638136
 Ion Ratio Lower Upper
 65 100
 67 54.6 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052755.D
 Acq: 10 Dec 2018 16:03

Tgt Ion: 114 Resp: 1891690
 Ion Ratio Lower Upper
 114 100
 63 20.0 0.0 41.8
 88 15.4 0.0 31.6

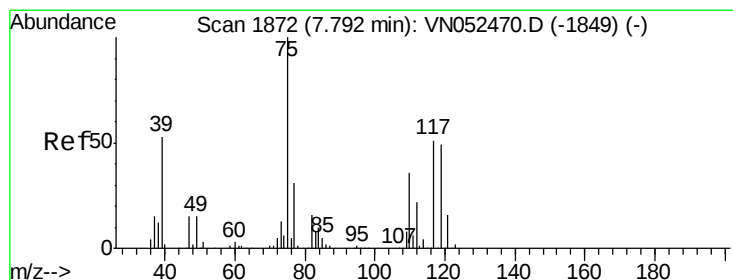
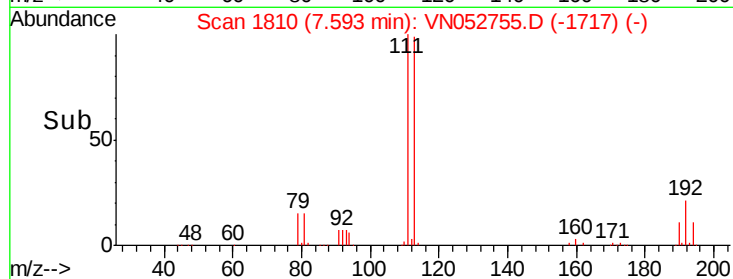
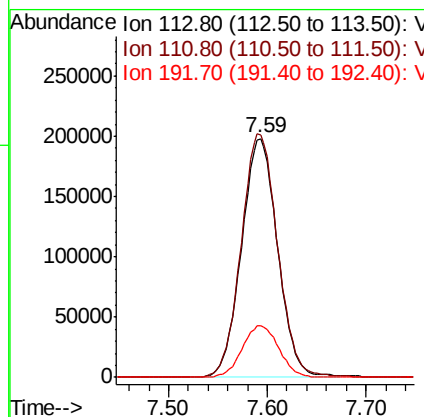
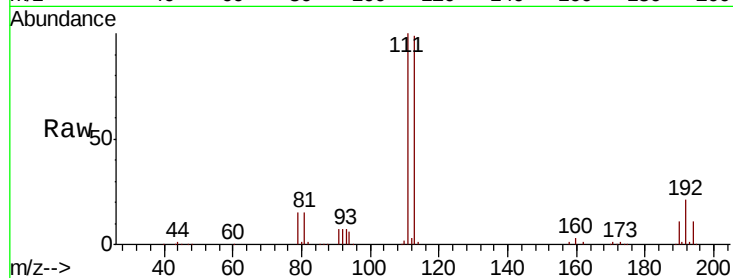




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN052755.D
Acq: 10 Dec 2018 16:03

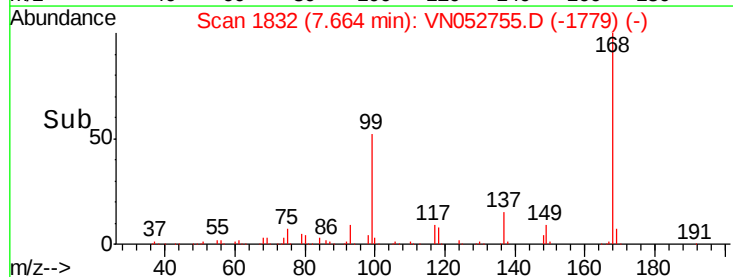
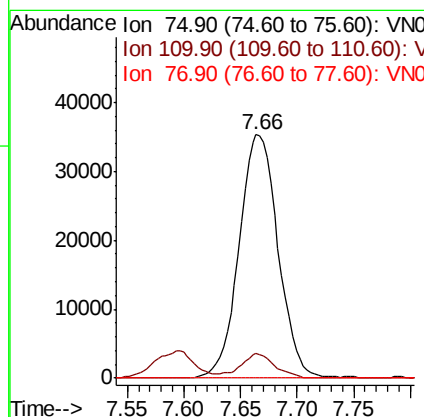
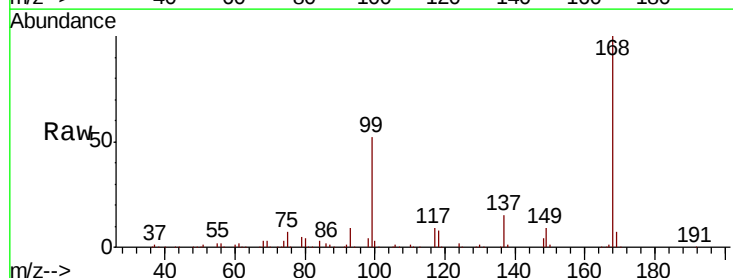
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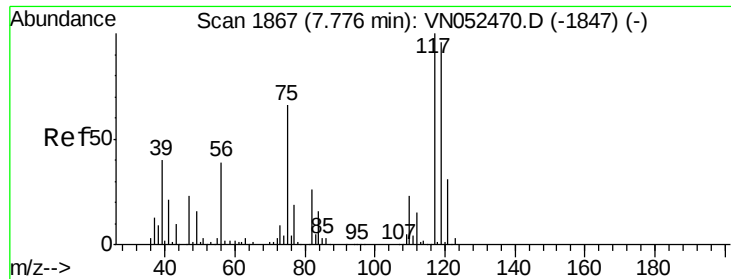
Tot Ion	Ratio	Lower	Upper
113	100		
111	103.3	82.0	123.0
192	22.1	17.0	25.6



#36
1,1-Dichloropropene
Concen: 4.733 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. -0.13 min
Lab File: VN052755.D
Acq: 10 Dec 2018 16:03

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	17.5	52.6#
77	0.0	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.674 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052755.D

Acq: 10 Dec 2018 16:03

Instrument :

MSVOA_N

ClientSampleId :

PB115448ZHE#04

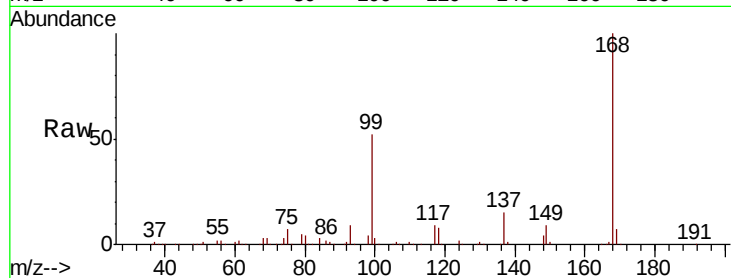
Tot Ion:117 Resp: 107925

Ion Ratio Lower Upper

117 100

119 5.1 76.8 115.2#

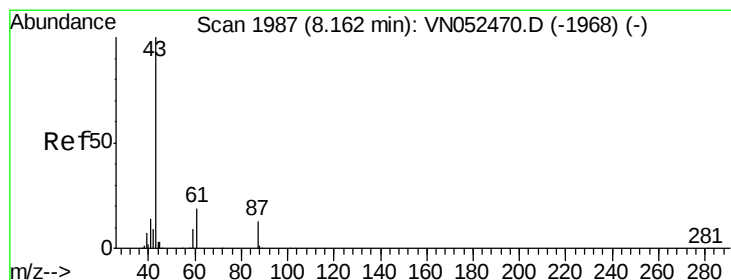
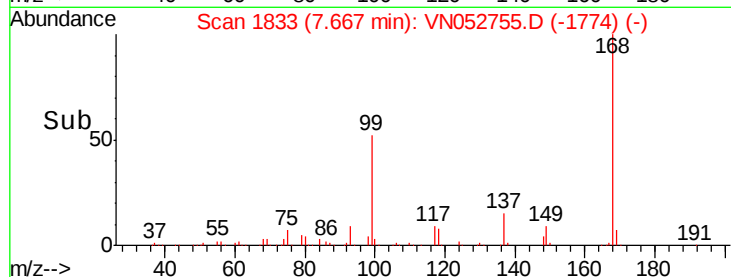
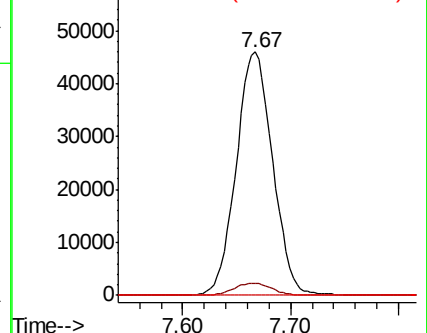
121 0.0 24.9 37.3#



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: 3.832 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052755.D

Acq: 10 Dec 2018 16:03

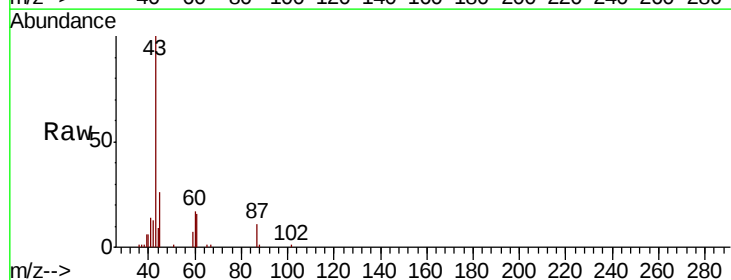
Tgt Ion: 43 Resp: 70694

Ion Ratio Lower Upper

43 100

61 13.7 24.1 36.1#

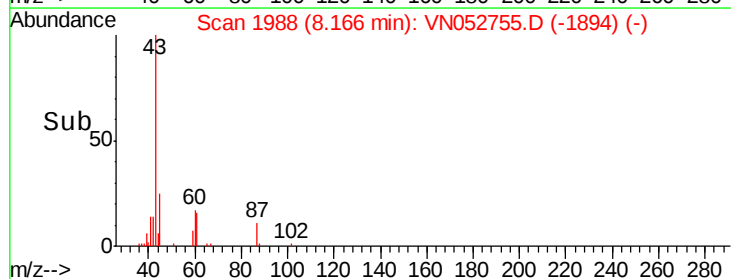
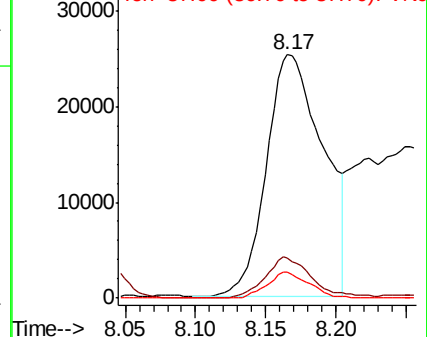
87 7.8 10.6 15.8#

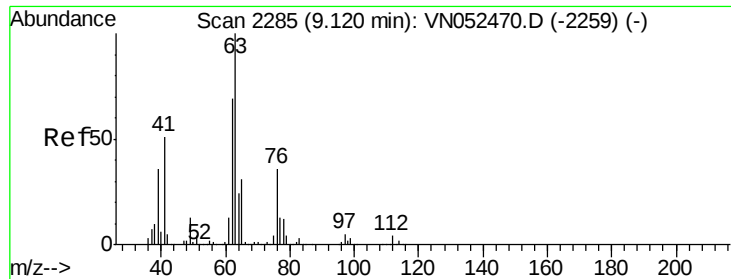


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#45

1,2-Dichloropropane

Concen: 0.231 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN052755.D

Acq: 10 Dec 2018 16:03

Instrument :

MSVOA_N

ClientSampleId :

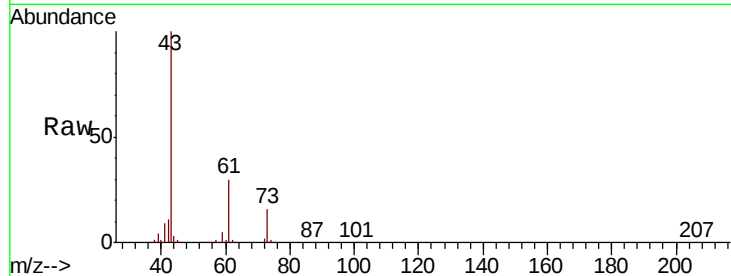
PB115448ZHE#04

Tot Ion: 63 Resp: 3269

Ion Ratio Lower Upper

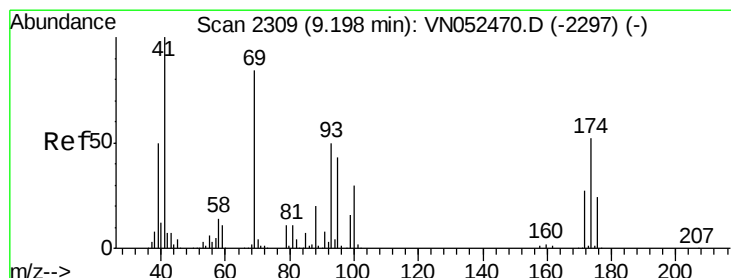
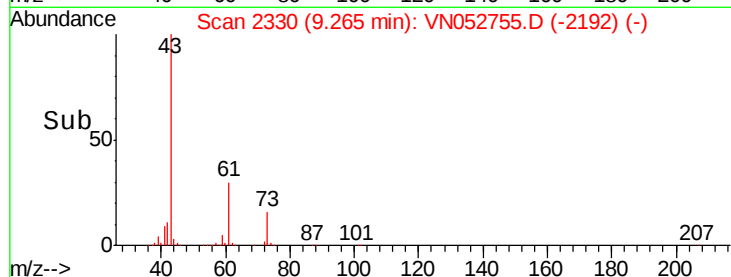
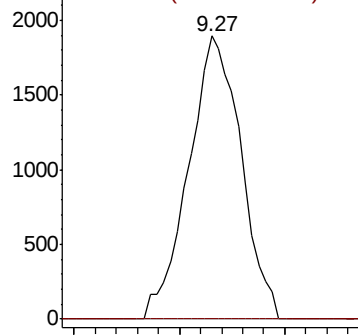
63 100

65 0.0 25.0 37.6#



Abundance Ion 62.90 (62.60 to 63.60): VNO

Ion 64.90 (64.60 to 65.60): VNO



#48

Methyl methacrylate

Concen: 1.436 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN052755.D

Acq: 10 Dec 2018 16:03

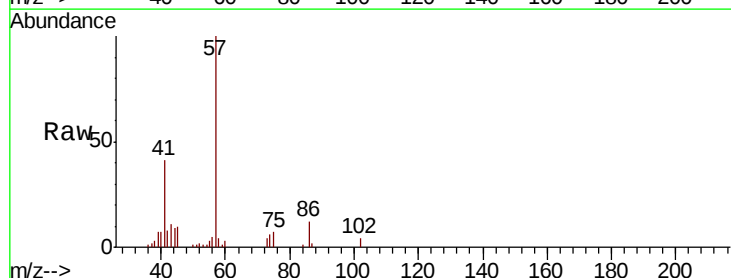
Tgt Ion: 41 Resp: 13811

Ion Ratio Lower Upper

41 100

69 0.0 70.0 105.0#

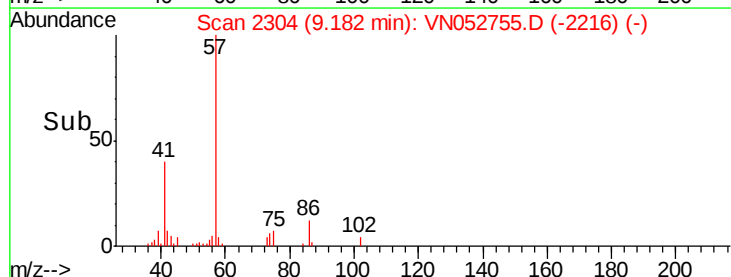
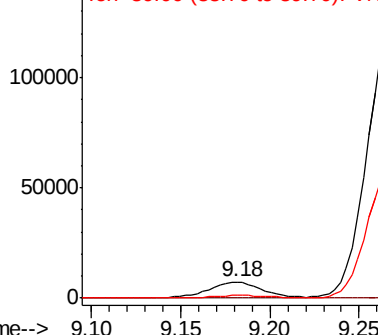
39 0.0 42.6 64.0#

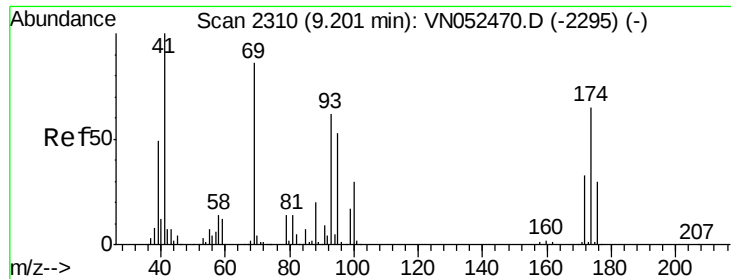


Abundance Ion 41.00 (40.70 to 41.70): VNO

Ion 69.00 (68.70 to 69.70): VNO

Ion 39.00 (38.70 to 39.70): VNO





#49

1,4-Dioxane

Concen: 1.803 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.06 min

Lab File: VN052755.D

Acq: 10 Dec 2018 16:03

Instrument :

MSVOA_N

ClientSampleId :

PB115448ZHE#04

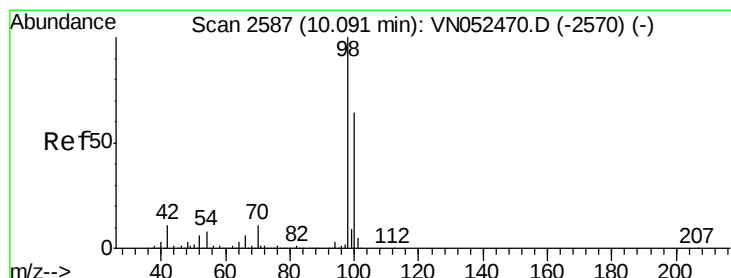
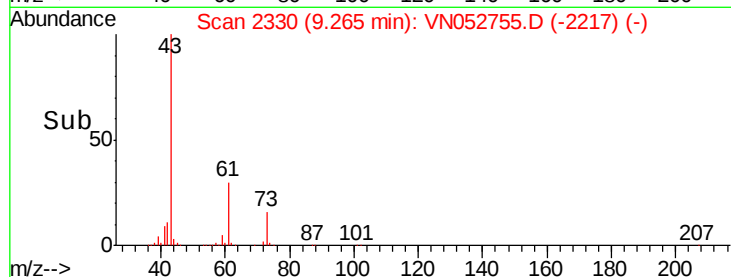
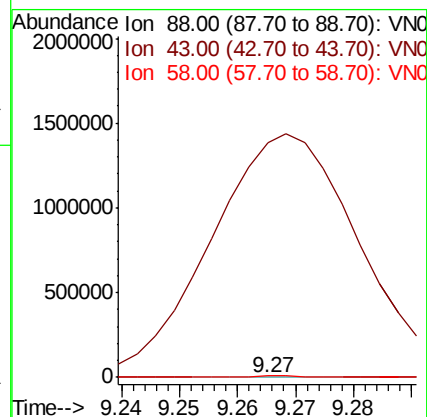
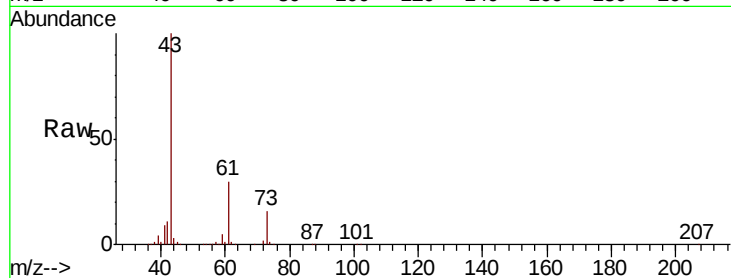
Tot Ion: 88 Resp: 180

Ion Ratio Lower Upper

88 100

43 1447036.1 26.4 39.6#

58 6514.4 55.4 83.0#



#50

Toluene-d8

Concen: 1.803 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052755.D

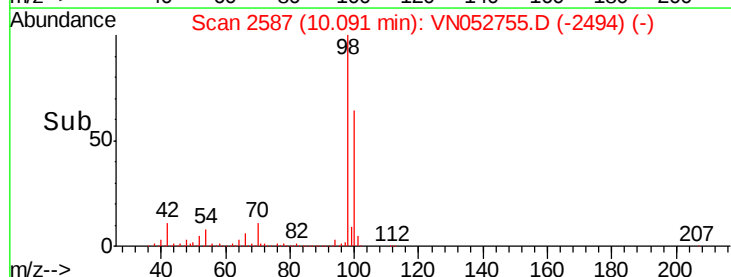
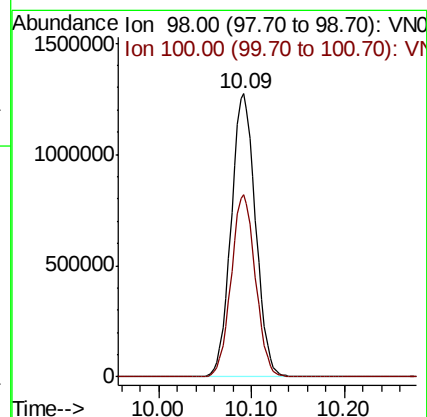
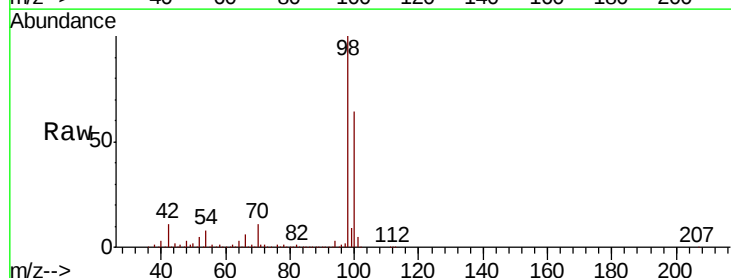
Acq: 10 Dec 2018 16:03

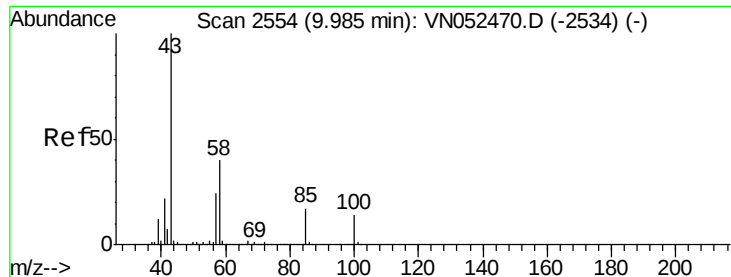
Tgt Ion: 98 Resp: 2322021

Ion Ratio Lower Upper

98 100

100 63.9 51.3 76.9





#51

4-Methyl-2-Pentanone

Concen: 1.660 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052755.D

Acq: 10 Dec 2018 16:03

Instrument :

MSVOA_N

ClientSampleId :

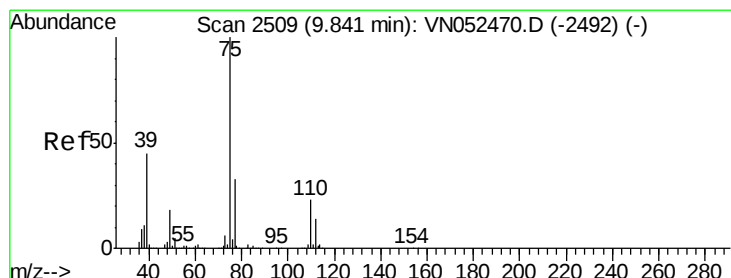
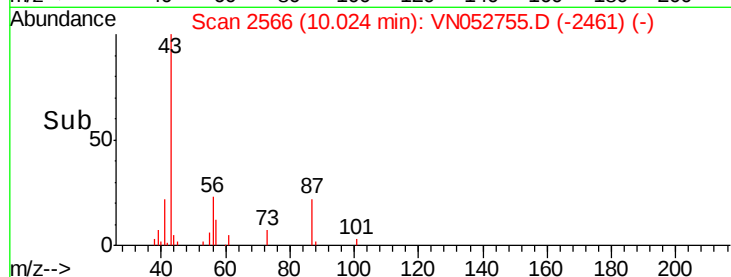
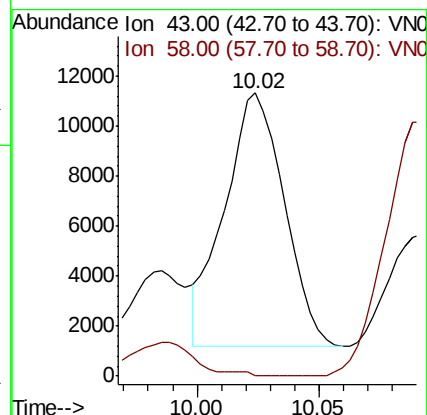
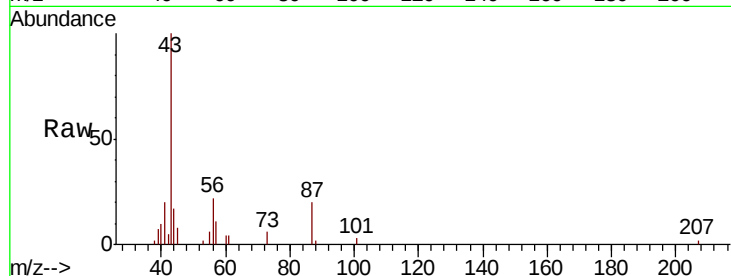
PB115448ZHE#04

Tot Ion: 43 Resp: 17183

Ion Ratio Lower Upper

43 100

58 0.0 31.5 47.3#



#54

cis-1,3-Dichloropropene

Concen: 6.291 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052755.D

Acq: 10 Dec 2018 16:03

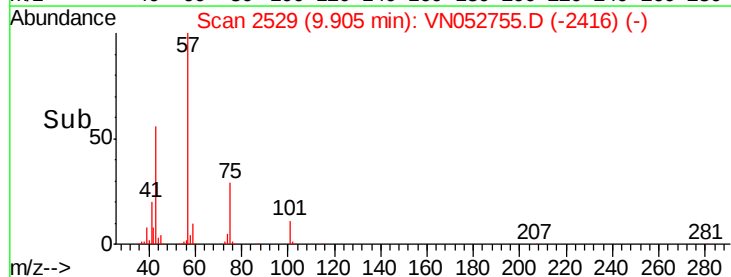
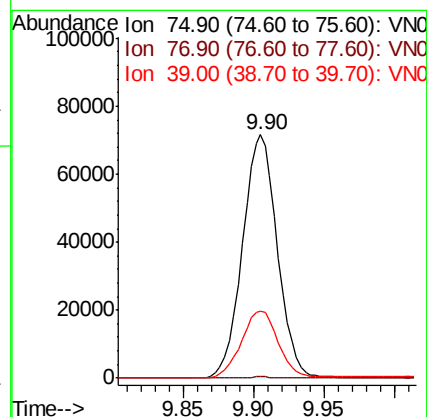
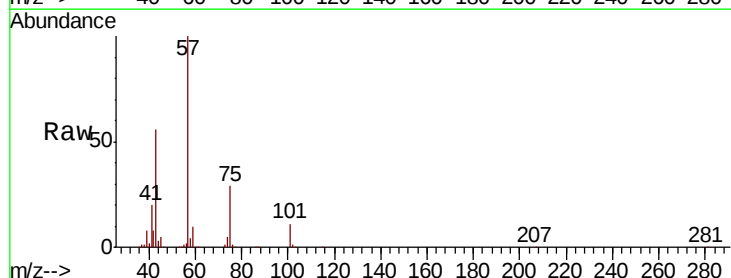
Tgt Ion: 75 Resp: 123546

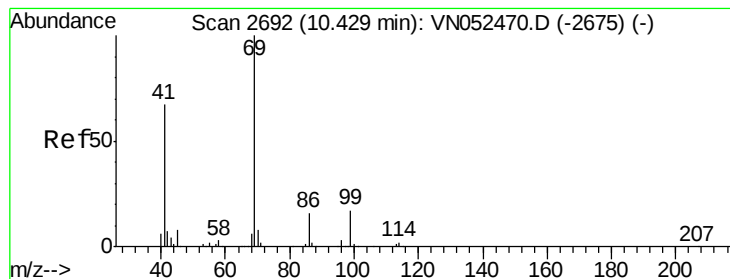
Ion Ratio Lower Upper

75 100

77 0.5 26.2 39.2#

39 27.8 36.0 54.0#





#56

Ethyl methacrylate

Concen: 2.735 ug/l

RT: 10.54 min Scan# 2726

Delta R.T. 0.11 min

Lab File: VN052755.D

Acq: 10 Dec 2018 16:03

Instrument :

MSVOA_N

ClientSampleId :

PB115448ZHE#04

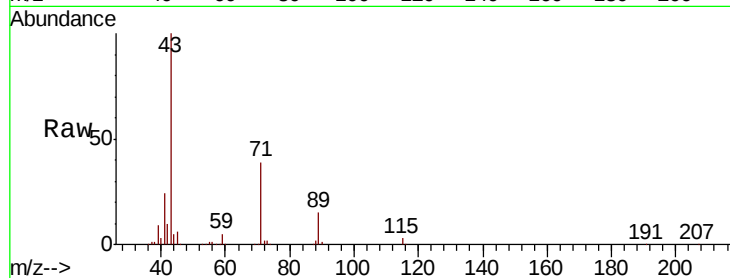
Tot Ion: 69 Resp: 676

Ion Ratio Lower Upper

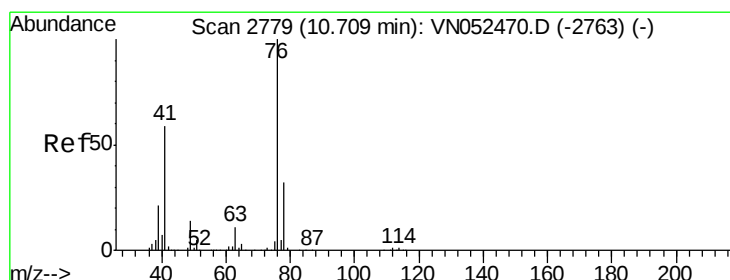
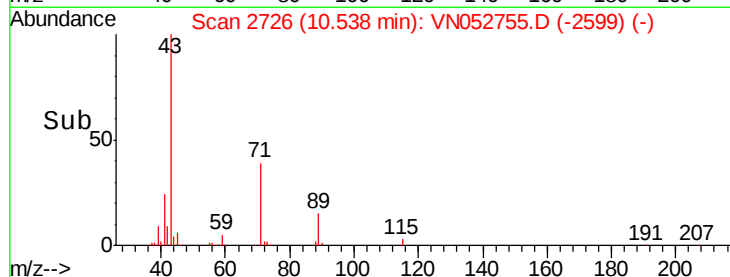
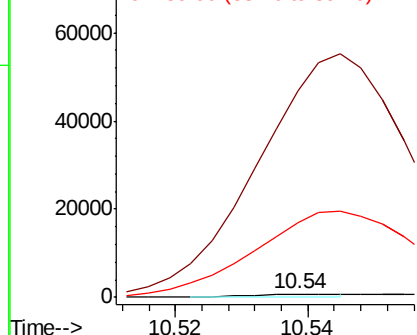
69 100

41 13750.3 52.6 79.0#

39 5244.2 25.9 38.9#



Abundance Ion 69.00 (68.70 to 69.70): VNO
Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO



#57

1,3-Dichloropropane

Concen: 1.207 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052755.D

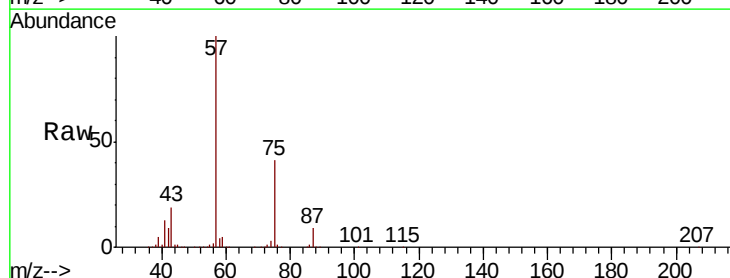
Acq: 10 Dec 2018 16:03

Tgt Ion: 76 Resp: 23719

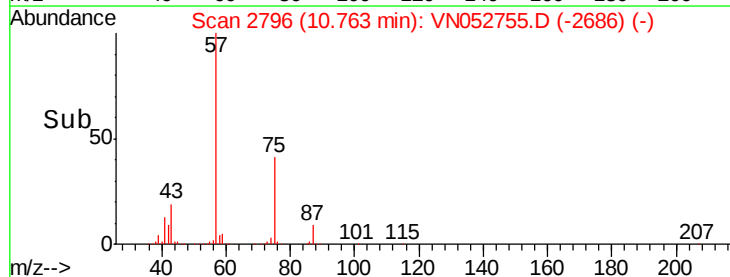
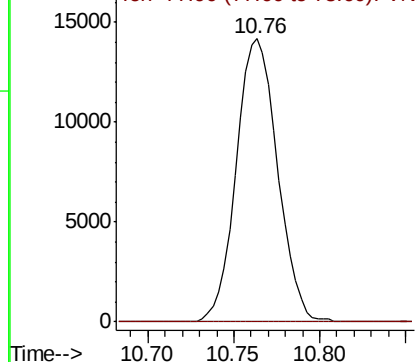
Ion Ratio Lower Upper

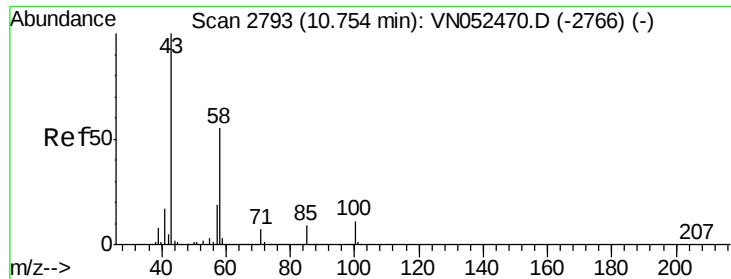
76 100

78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VNO
Ion 77.90 (77.60 to 78.60): VNO

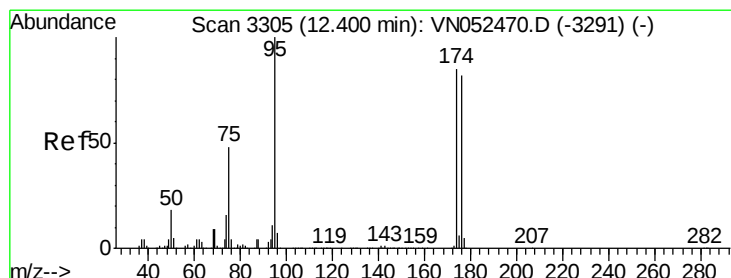
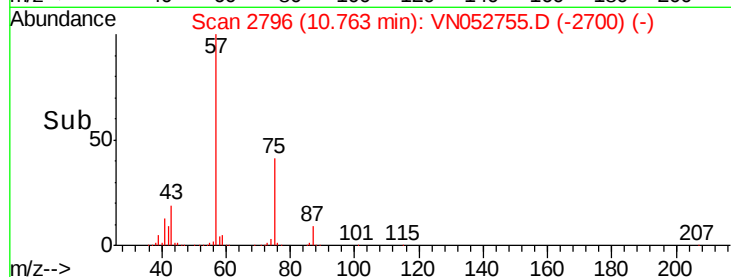
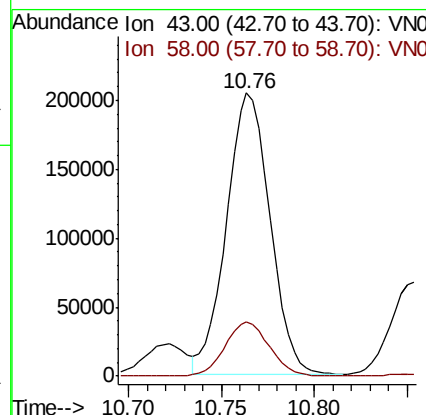
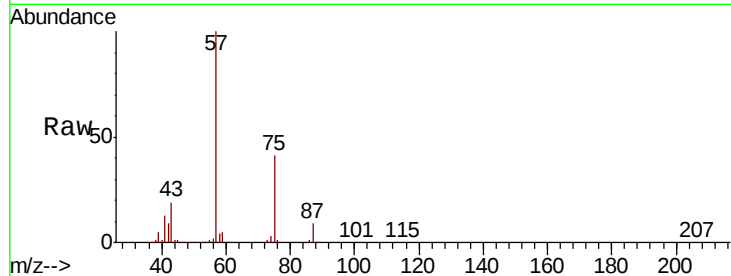




#59
2-Hexanone
Concen: 48.034 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052755.D
Acq: 10 Dec 2018 16:03

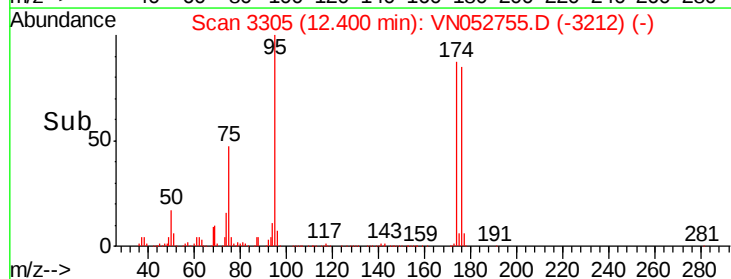
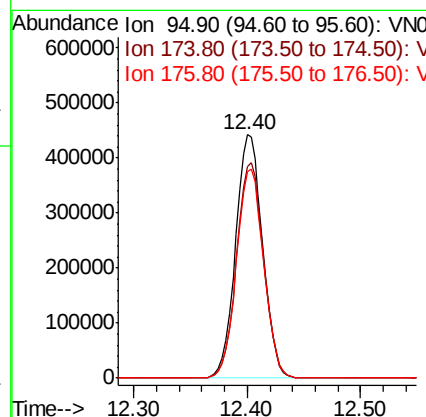
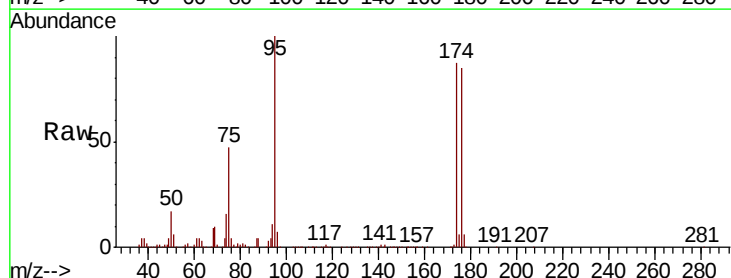
Instrument :
MSVOA_N
ClientSampleId :
PB115448ZHE#04

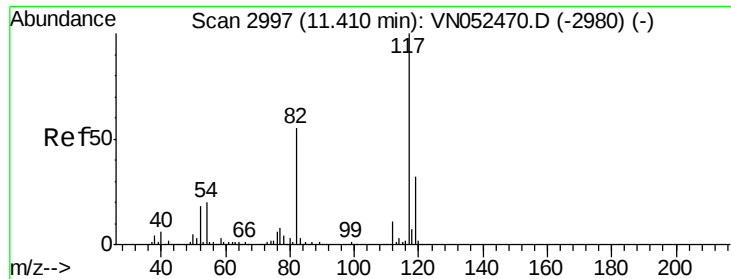
Tot Ion: 43 Resp: 333715
Ion Ratio Lower Upper
43 100
58 19.5 27.4 82.0#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.00 min
Lab File: VN052755.D
Acq: 10 Dec 2018 16:03

Tgt Ion: 95 Resp: 732623
Ion Ratio Lower Upper
95 100
174 88.7 0.0 173.0
176 86.6 0.0 166.2

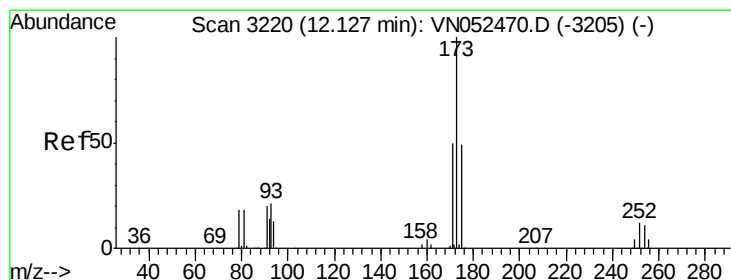
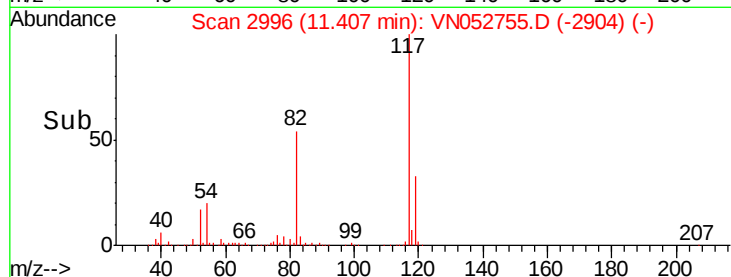
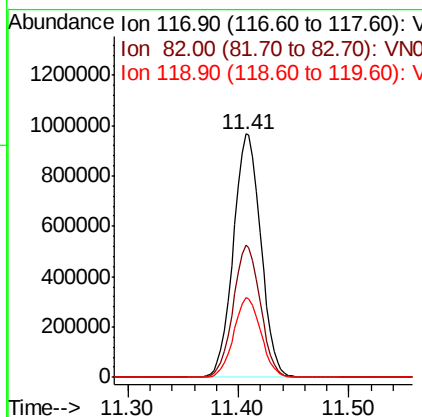
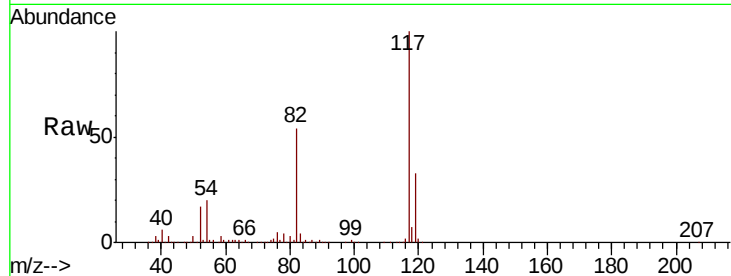




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052755.D
Acq: 10 Dec 2018 16:03

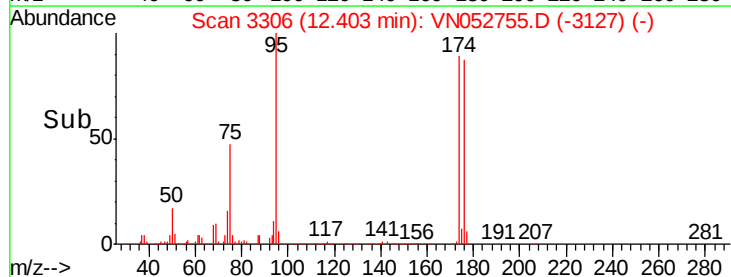
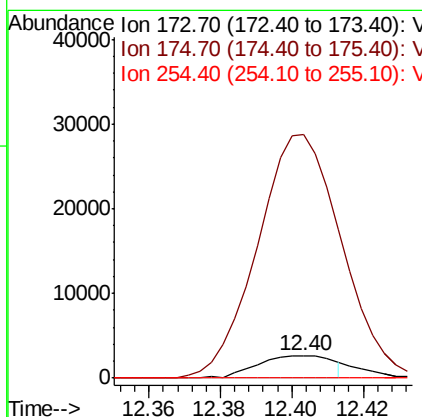
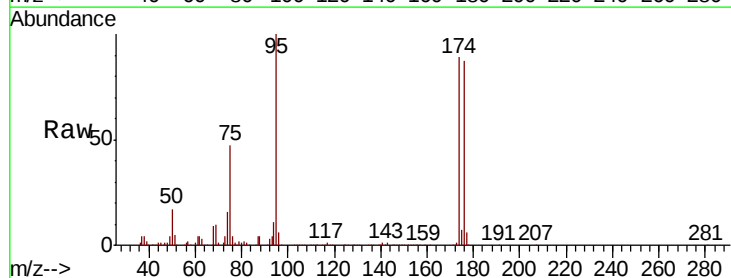
Instrument :
MSVOA_N
ClientSampleId :
PB115448ZHE#04

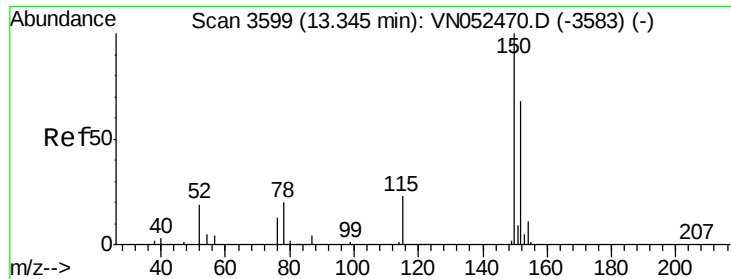
Tot Ion:117 Resp: 1668729
Ion Ratio Lower Upper
117 100
82 54.2 43.6 65.4
119 32.6 25.4 38.2



#71
Bromoform
Concen: 0.487 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052755.D
Acq: 10 Dec 2018 16:03

Tgt Ion:173 Resp: 3860
Ion Ratio Lower Upper
173 100
175 1058.0 24.4 73.2#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052755.D

Acq: 10 Dec 2018 16:03

Instrument :

MSVOA_N

ClientSampleId :

PB115448ZHE#04

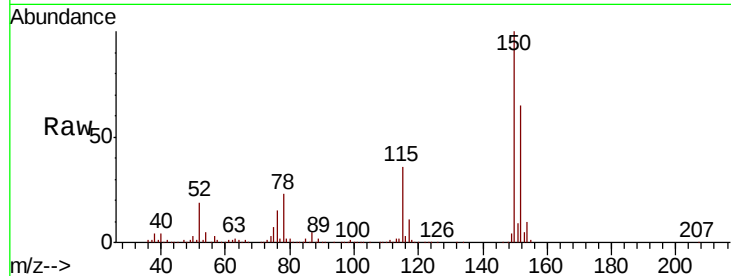
Tot Ion:152 Resp: 657921

Ion Ratio Lower Upper

152 100

115 56.6 28.4 85.2

150 155.5 0.0 346.0

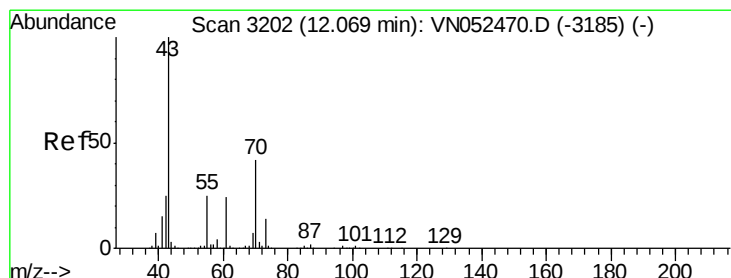
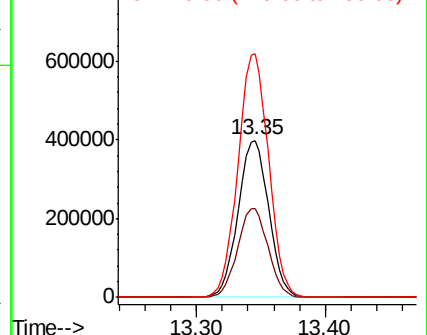
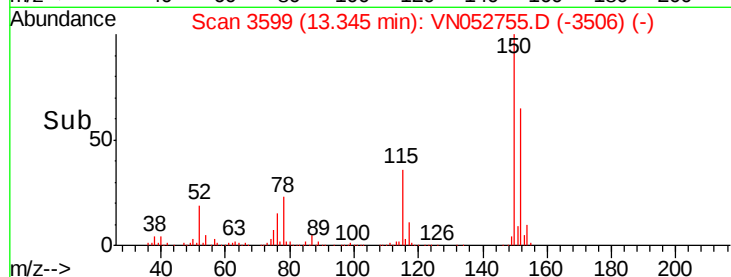


Abundance

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



#74

N-ethyl acetate

Concen: 3.011 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052755.D

Acq: 10 Dec 2018 16:03

Tgt Ion: 43 Resp: 39260

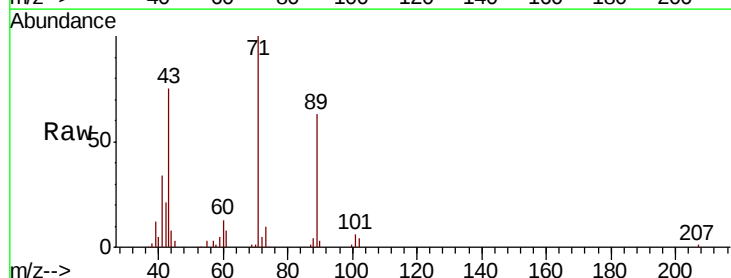
Ion Ratio Lower Upper

43 100

70 1.9 33.8 50.8#

55 4.4 20.0 30.0#

61 10.7 19.7 29.5#



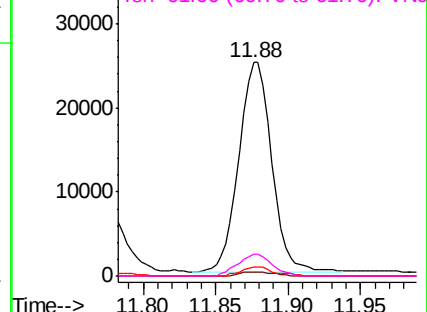
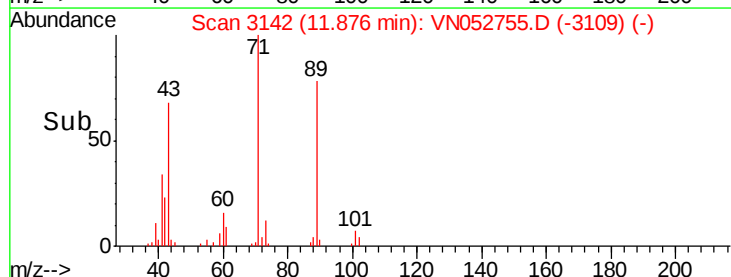
Abundance

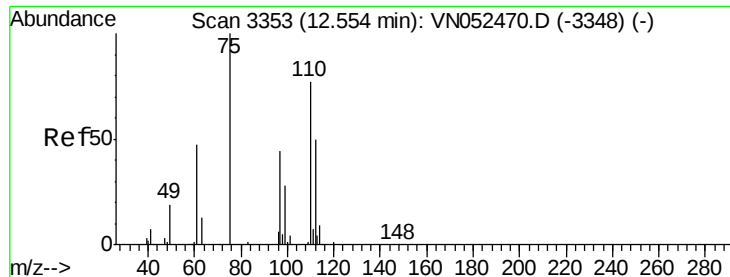
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 34.403 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052755.D

Acq: 10 Dec 2018 16:03

Instrument :

MSVOA_N

ClientSampleId :

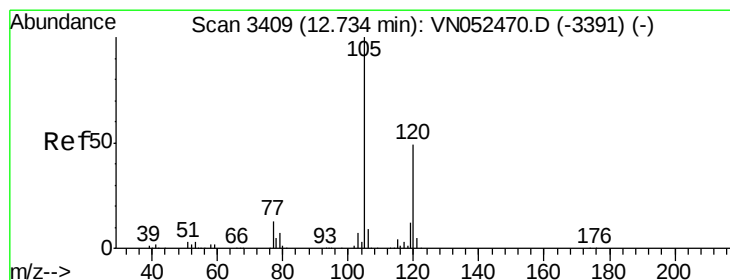
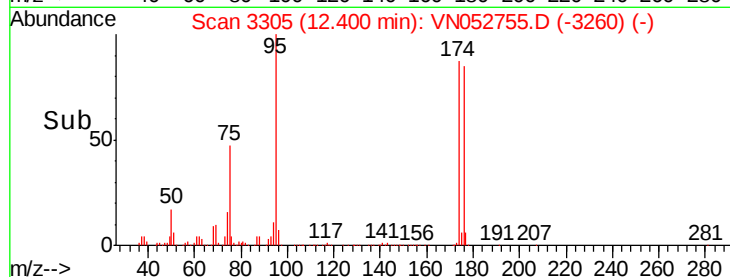
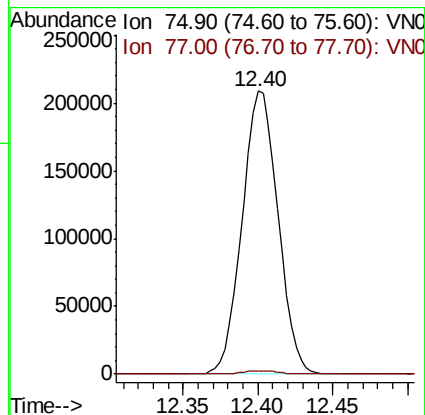
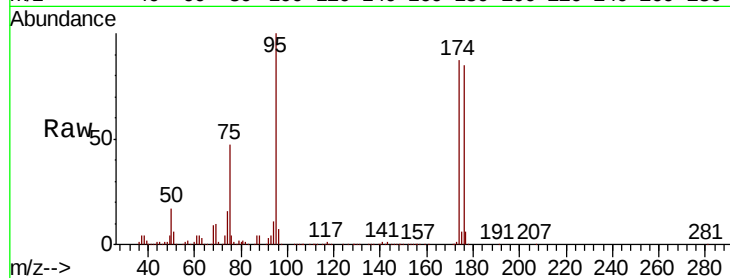
PB115448ZHE#04

Tot Ion: 75 Resp: 349031

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.202 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN052755.D

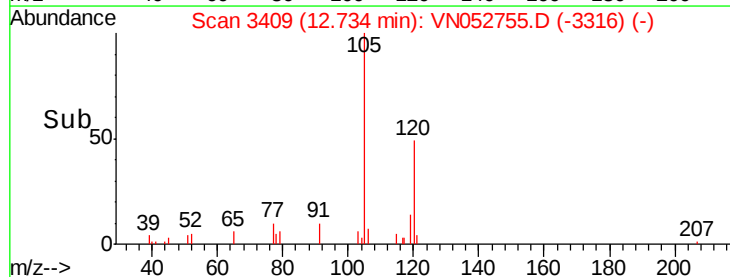
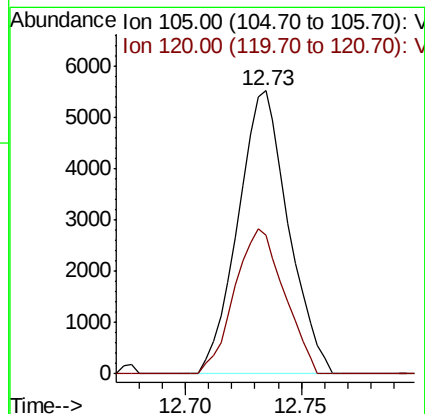
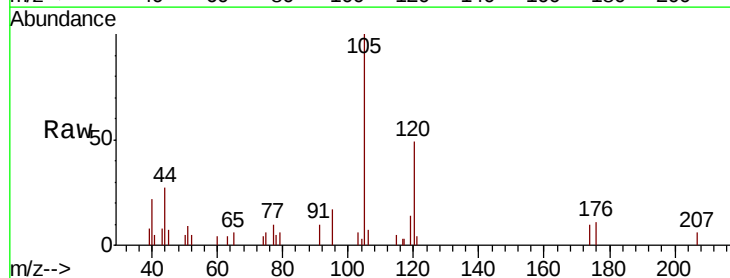
Acq: 10 Dec 2018 16:03

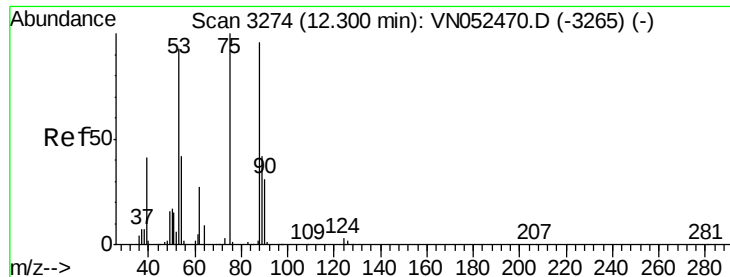
Tgt Ion: 105 Resp: 8327

Ion Ratio Lower Upper

105 100

120 50.5 24.3 73.0





#81

trans-1,4-Dichloro-2-butene

Concen: 114.888 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052755.D

Acq: 10 Dec 2018 16:03

Instrument :

MSVOA_N

ClientSampleId :

PB115448ZHE#04

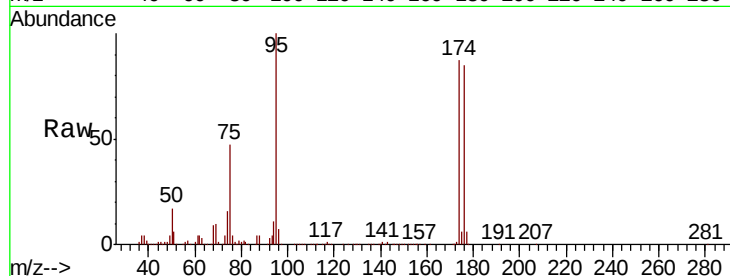
Tot Ion: 75 Resp: 349031

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

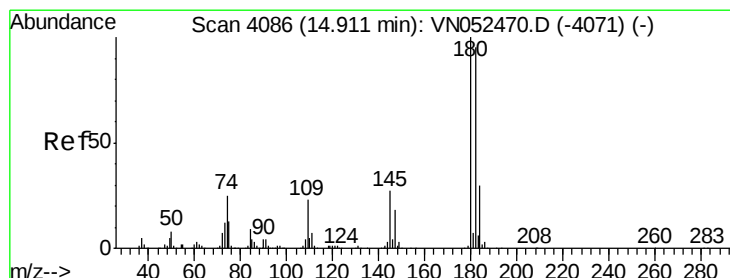
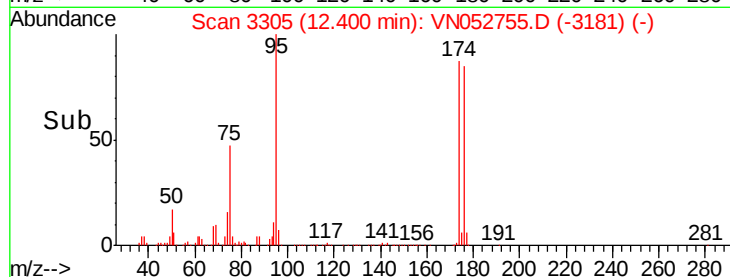
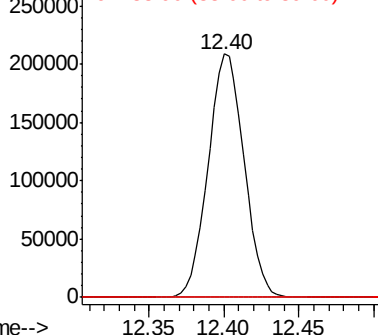
89 0.0 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VN052470.D (-3265) (-)

Ion 53.00 (52.70 to 53.70): VN052470.D (-3265) (-)

Ion 88.90 (88.60 to 89.60): VN052470.D (-3265) (-)



#93

1,2,4-Trichlorobenzene

Concen: 2.854 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. -0.00 min

Lab File: VN052755.D

Acq: 10 Dec 2018 16:03

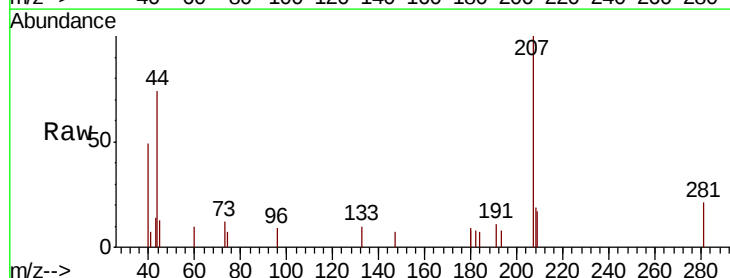
Tgt Ion: 180 Resp: 304

Ion Ratio Lower Upper

180 100

182 40.1 47.8 143.4#

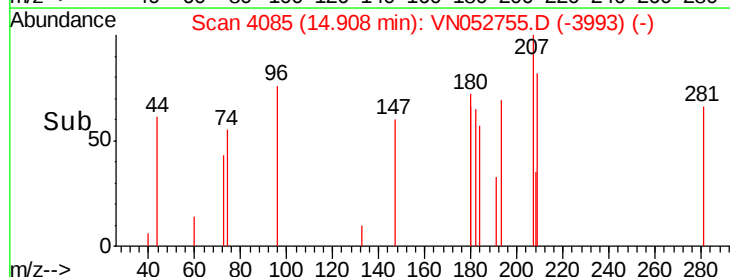
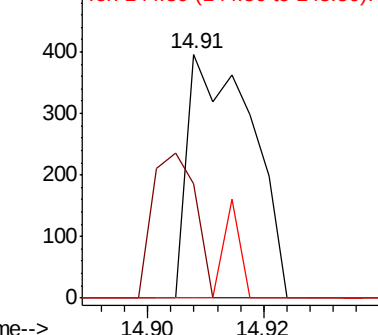
145 10.2 14.1 42.3#

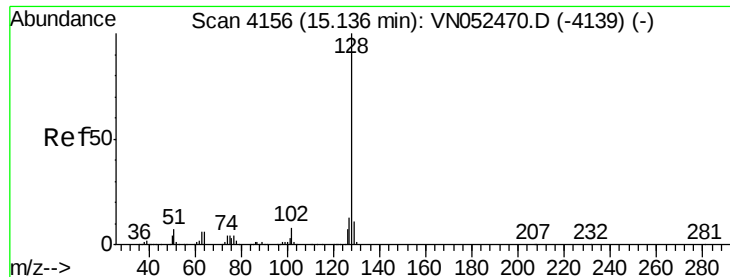


Abundance Ion 179.80 (179.50 to 180.50): VN052470.D (-4071) (-)

Ion 181.80 (181.50 to 182.50): VN052470.D (-4071) (-)

Ion 144.80 (144.50 to 145.50): VN052470.D (-4071) (-)





#95

Naphthalene

Concen: 3.464 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN052755.D

Acq: 10 Dec 2018 16:03

Instrument :

MSVOA_N

ClientSampleId :

PB115448ZHE#04

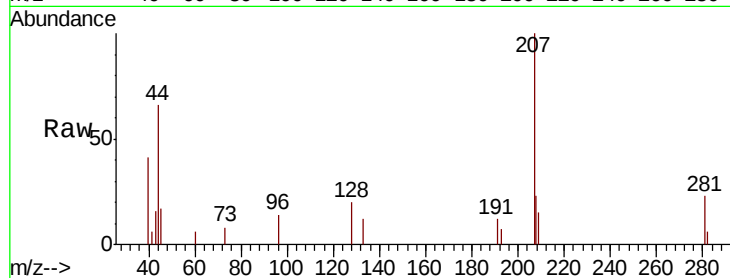
Tot Ion:128 Resp: 945

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

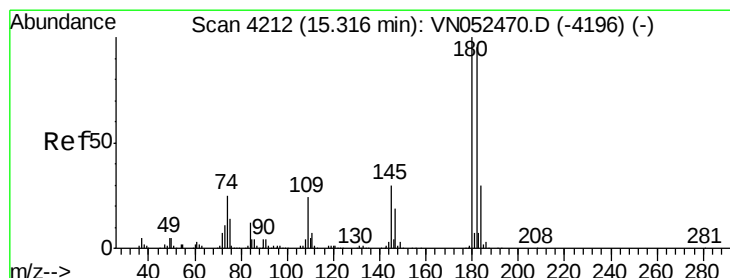
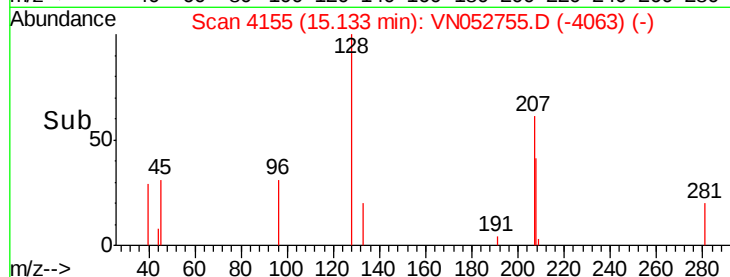
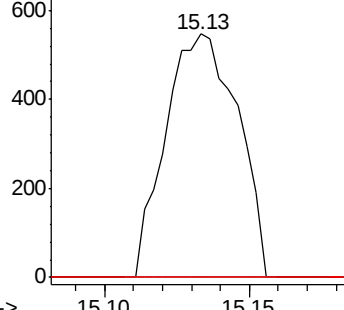
129 0.0 8.7 13.1#



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: 2.733 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN052755.D

Acq: 10 Dec 2018 16:03

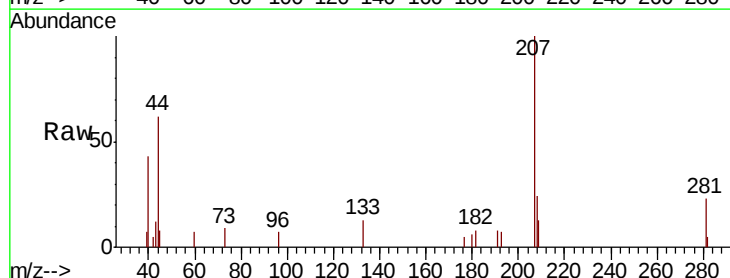
Tgt Ion:180 Resp: 67

Ion Ratio Lower Upper

180 100

182 349.3 47.8 143.3#

145 0.0 15.2 45.5#



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

