

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121818\
 Data File : VN052989.D
 Acq On : 19 Dec 2018 4:39
 Operator : MD\SY
 Sample : PB115784ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 42 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115784ZHE#04

Quant Time: Dec 19 05:49:14 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1441773	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2217944	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	2021711	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	837970	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	722388	49.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.74%	
35) Dibromofluoromethane	7.59	113	525272	51.84	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.68%	
50) Toluene-d8	10.09	98	2714293	49.90	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.80%	
62) 4-Bromofluorobenzene	12.40	95	920259	48.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.40%	

Target Compounds

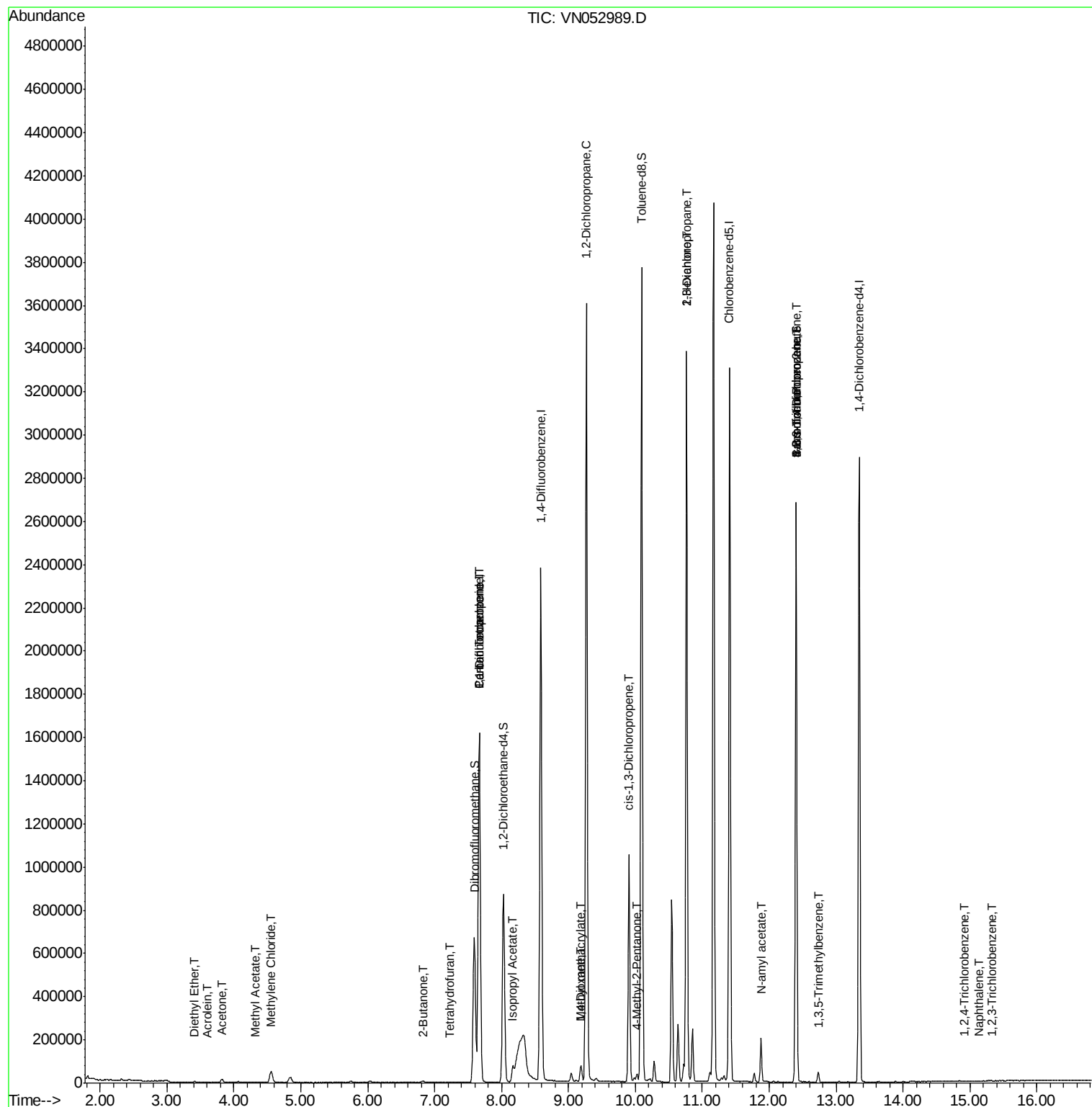
						Qvalue
8) Diethyl Ether	3.41	74	2495	0.296	ug/l	98
13) Acrolein	3.61	56	212	0.262	ug/l #	31
16) Acetone	3.82	43	24910	8.683	ug/l	95
18) Methyl Acetate	4.32	43	7712	1.573	ug/l #	79
20) Methylene Chloride	4.55	84	39886	2.549	ug/l	98
25) 2-Butanone	6.84	43	3469	0.721	ug/l #	88
29) Tetrahydrofuran	7.23	42	2126	0.591	ug/l #	46
31) Cyclohexane	7.67	56	23550	Below Cal	#	1
36) 1,1-Dichloropropene	7.67	75	92693	4.354	ug/l #	49
38) Carbon Tetrachloride	7.67	117	120713	6.186	ug/l #	16
43) Isopropyl Acetate	8.17	43	90621	2.958	ug/l #	83
45) 1,2-Dichloropropane	9.27	63	4398	0.267	ug/l #	44
48) Methyl methacrylate	9.18	41	25283	2.192	ug/l #	21
49) 1,4-Dioxane	9.19	88	68	0.466	ug/l #	1
51) 4-Methyl-2-Pentanone	10.03	43	30552	2.655	ug/l #	35
54) cis-1,3-Dichloropropene	9.90	75	204936	8.313	ug/l #	58
57) 1,3-Dichloropropane	10.76	76	36112	1.538	ug/l #	42
59) 2-Hexanone	10.76	43	478849	61.495	ug/l #	50
71) Bromoform	12.40	173	5288	0.470	ug/l #	1
74) N-amyl acetate	11.88	43	61245	3.365	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	426096	30.206	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	23917	0.448	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.40	75	426096	97.357	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.92	180	411	0.623	ug/l #	82
95) Naphthalene	15.13	128	1106	1.179	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	192	0.522	ug/l #	28

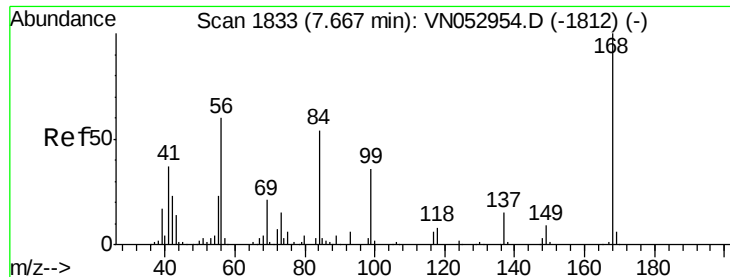
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Dec 18 13:03:37 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: VN052989.D

Acq: 19 Dec 2018 4:39

Instrument :

MSVOA_N

ClientSampleId :

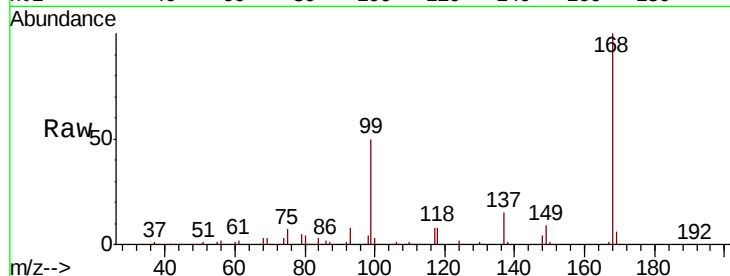
PB115784ZHE#04

Tot Ion:168 Resp: 1441773

Ion Ratio Lower Upper

168 100

99 50.1 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

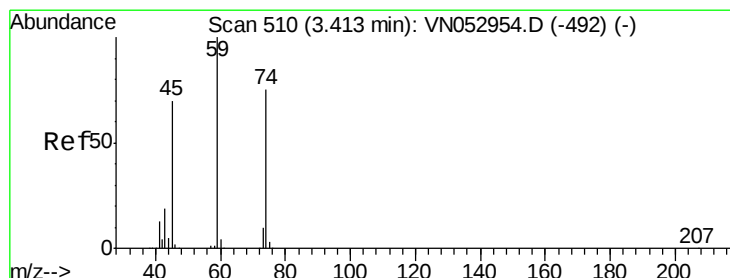
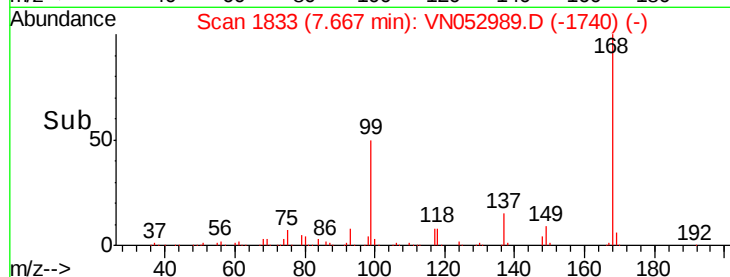
600000

400000

200000

0

Time-->



#8

Diethyl Ether

Concen: 0.296 ug/l

RT: 3.41 min Scan# 509

Delta R.T. -0.00 min

Lab File: VN052989.D

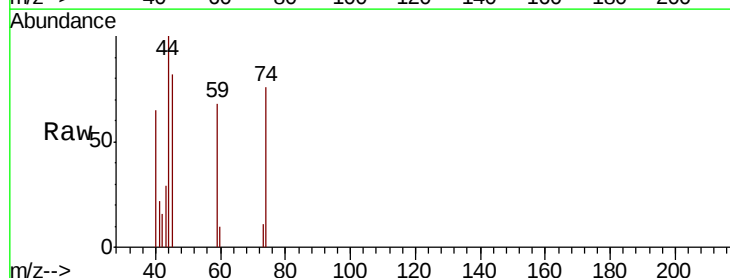
Acq: 19 Dec 2018 4:39

Tgt Ion: 74 Resp: 2495

Ion Ratio Lower Upper

74 100

45 101.0 49.4 148.0



Abundance Ion 74.00 (73.70 to 74.70): VN0

Ion 45.00 (44.70 to 45.70): VN0

3.41

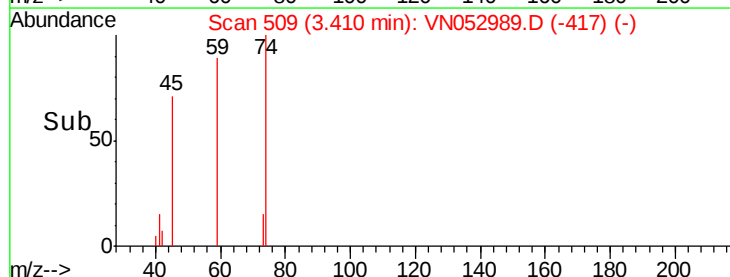
1500

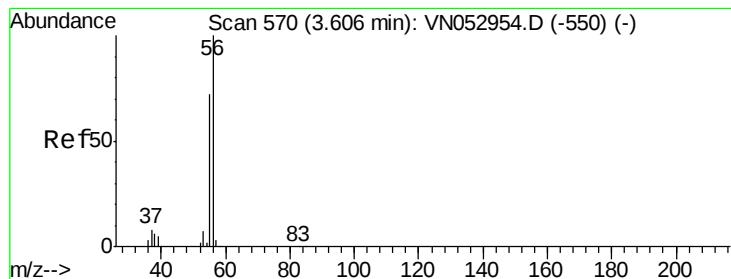
1000

500

0

Time-->





#13

Acrolein

Concen: 0.262 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN052989.D

Acq: 19 Dec 2018 4:39

Instrument :

MSVOA_N

ClientSampleId :

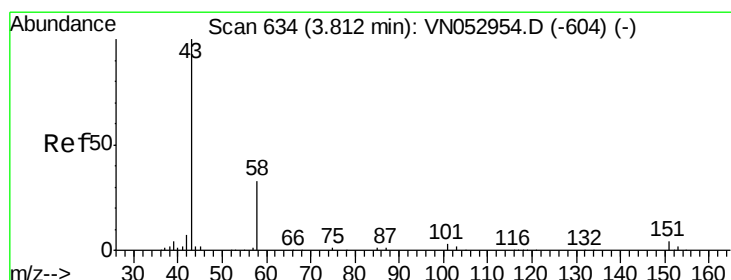
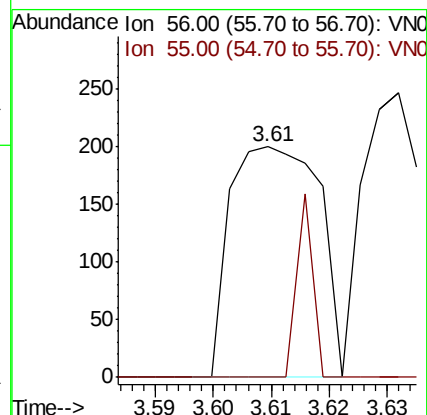
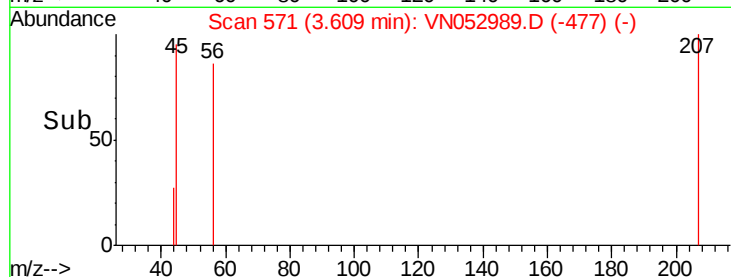
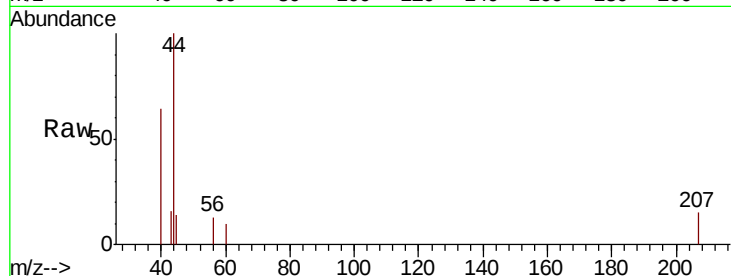
PB115784ZHE#04

Tot Ion: 56 Resp: 212

Ion Ratio Lower Upper

56 100

55 14.2 56.6 85.0#



#16

Acetone

Concen: 8.683 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052989.D

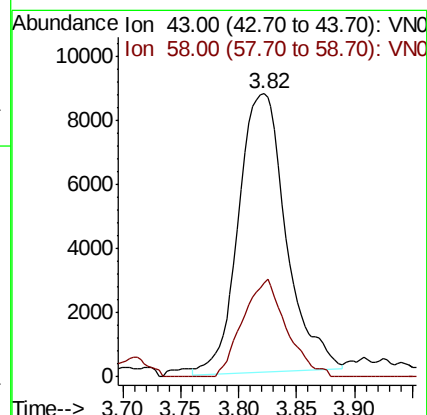
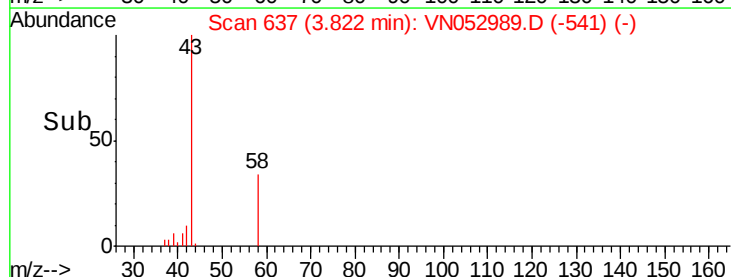
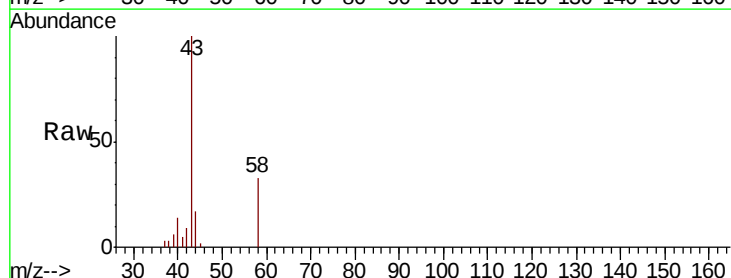
Acq: 19 Dec 2018 4:39

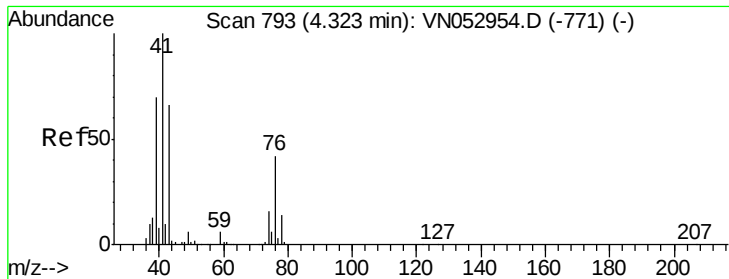
Tgt Ion: 43 Resp: 24910

Ion Ratio Lower Upper

43 100

58 34.3 25.4 38.0

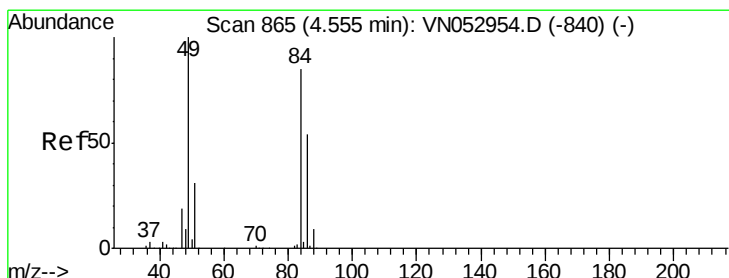
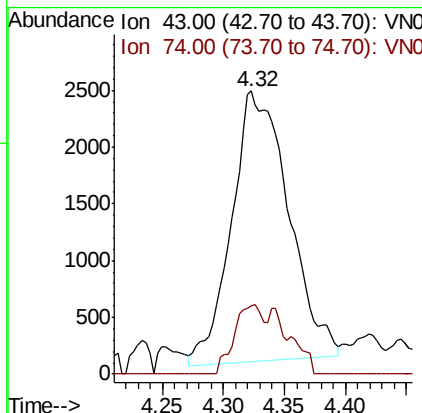
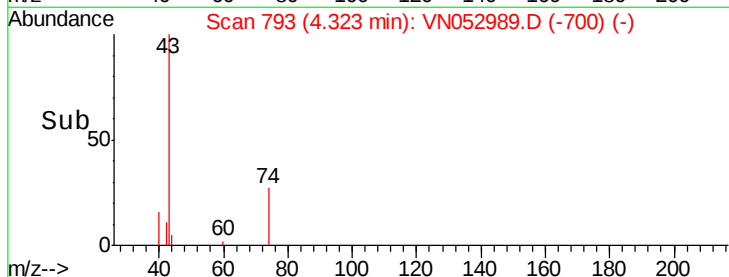
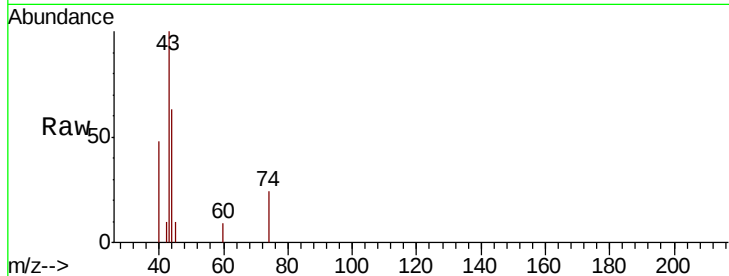




#18
Methyl Acetate
Concen: 1.573 ug/l
RT: 4.32 min Scan# 793
Delta R.T. 0.00 min
Lab File: VN052989.D
Acq: 19 Dec 2018 4:39

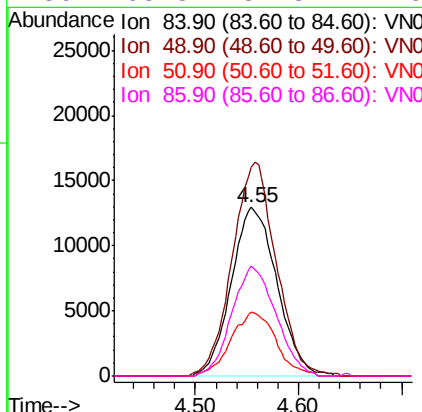
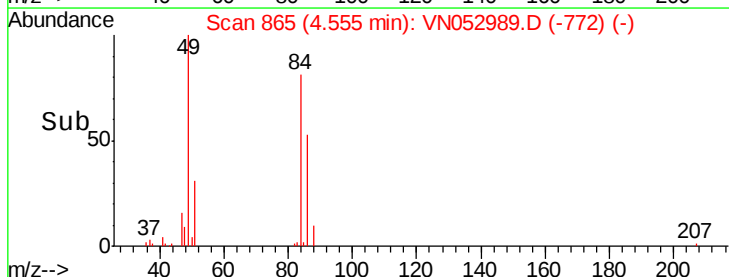
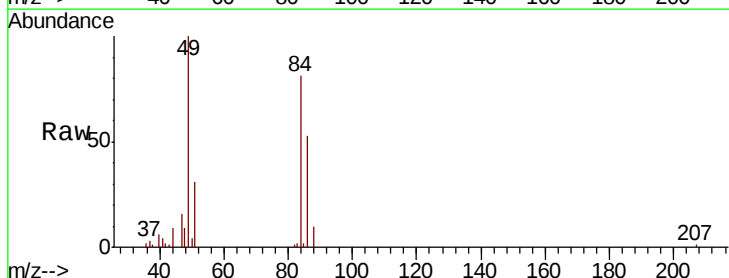
Instrument :
MSVOA_N
ClientSampleId :
PB115784ZHE#04

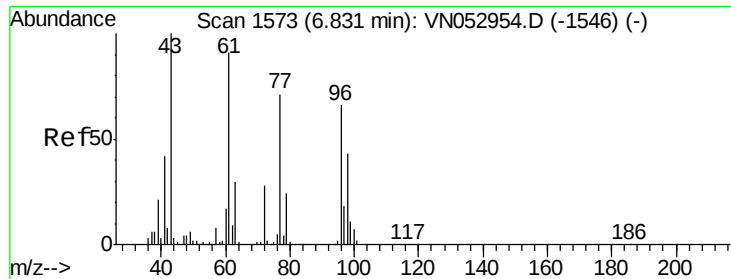
Tot Ion: 43 Resp: 7712
Ion Ratio Lower Upper
43 100
74 13.8 19.2 28.8#



#20
Methylene Chloride
Concen: 2.549 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN052989.D
Acq: 19 Dec 2018 4:39

Tgt Ion: 84 Resp: 39886
Ion Ratio Lower Upper
84 100
49 123.8 96.8 145.2
51 38.0 29.9 44.9
86 65.3 51.8 77.6

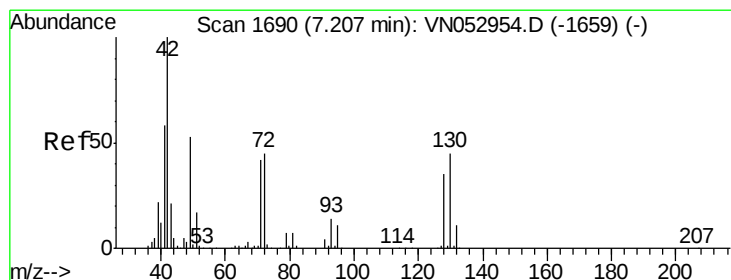
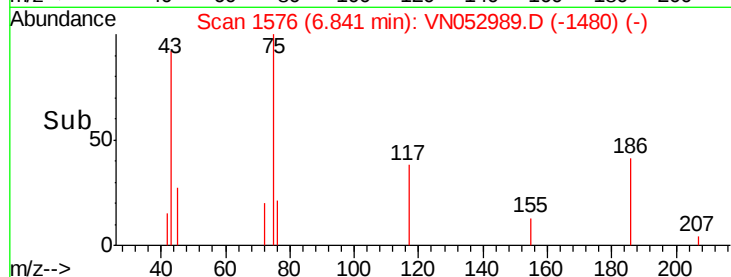
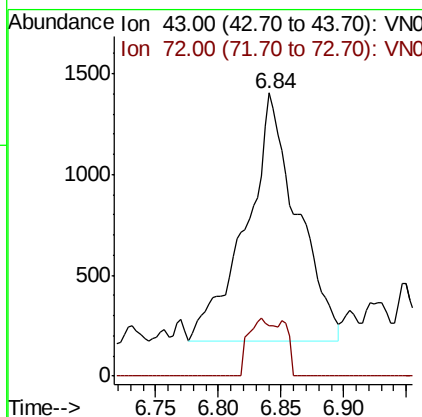
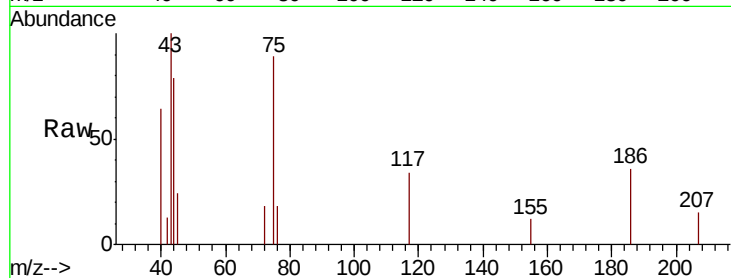




#25
2-Butanone
Concen: 0.721 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN052989.D
Acq: 19 Dec 2018 4:39

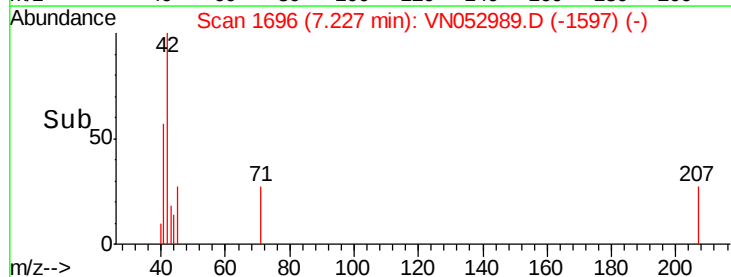
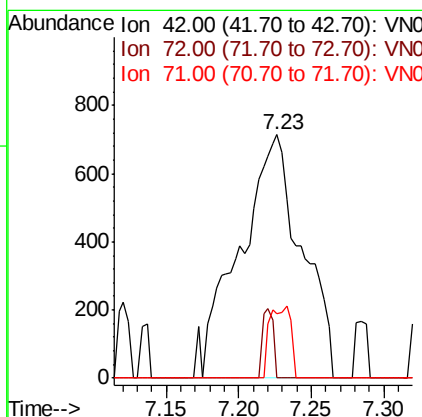
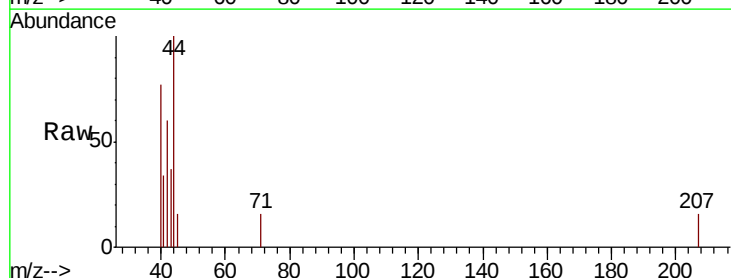
Instrument :
MSVOA_N
ClientSampleId :
PB115784ZHE#04

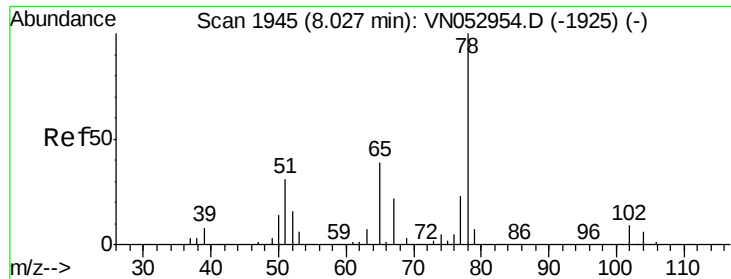
Tot Ion: 43 Resp: 3469
Ion Ratio Lower Upper
43 100
72 20.2 21.0 31.6#



#29
Tetrahydrofuran
Concen: 0.591 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.02 min
Lab File: VN052989.D
Acq: 19 Dec 2018 4:39

Tgt Ion: 42 Resp: 2126
Ion Ratio Lower Upper
42 100
72 5.1 34.7 52.1#
71 10.2 32.3 48.5#

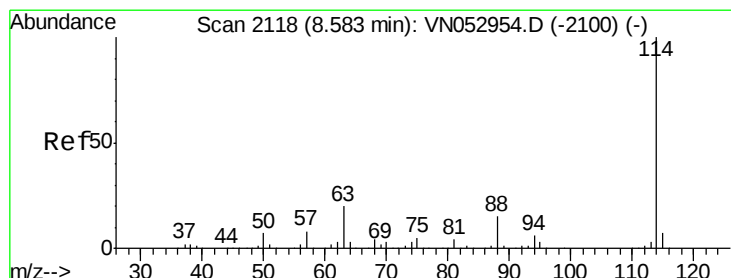
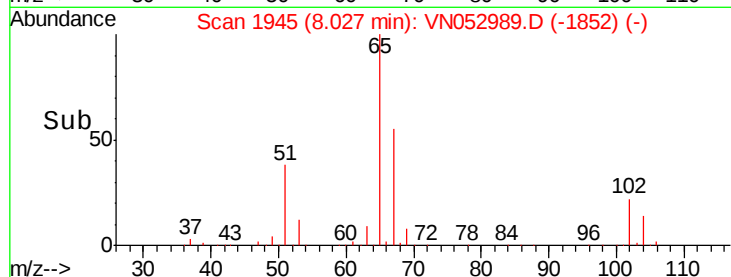
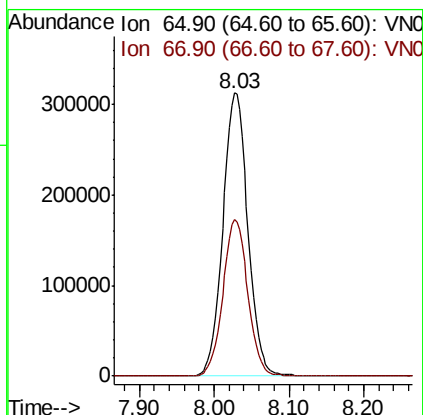
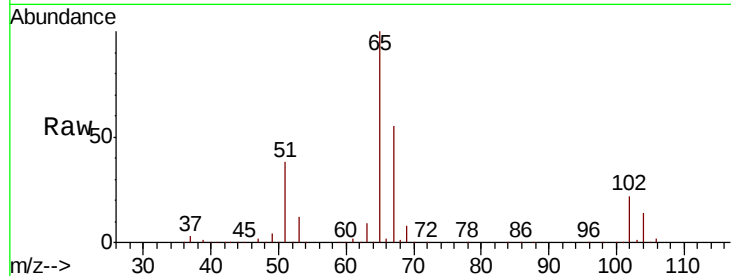




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052989.D
 Acq: 19 Dec 2018 4:39

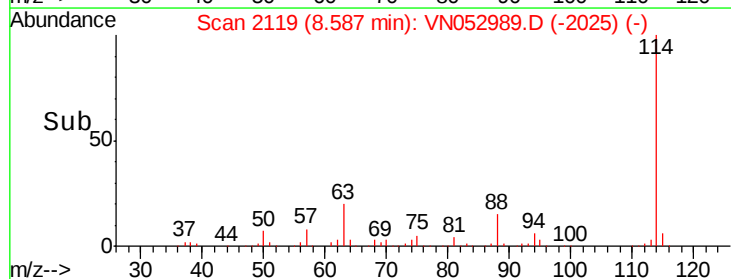
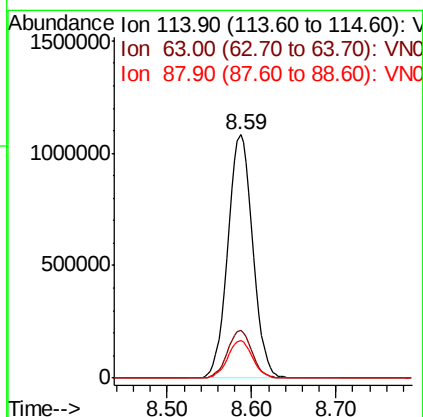
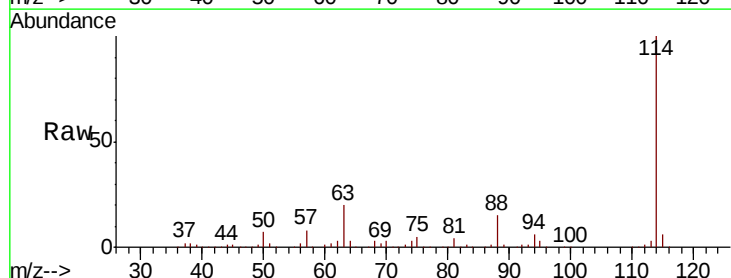
Instrument :
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 PB115784ZHE#04

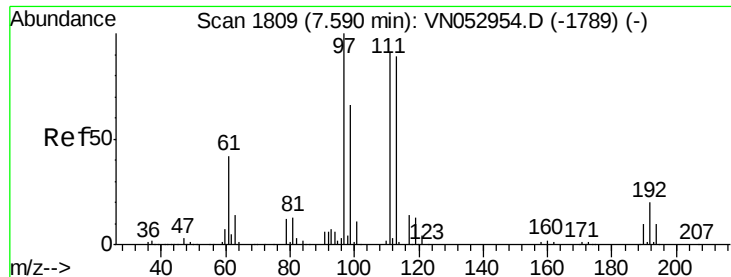
Tot Ion: 65 Resp: 722388
 Ion Ratio Lower Upper
 65 100
 67 55.0 0.0 110.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052989.D
 Acq: 19 Dec 2018 4:39

Tgt Ion: 114 Resp: 2217944
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 39.8
 88 15.4 0.0 31.0

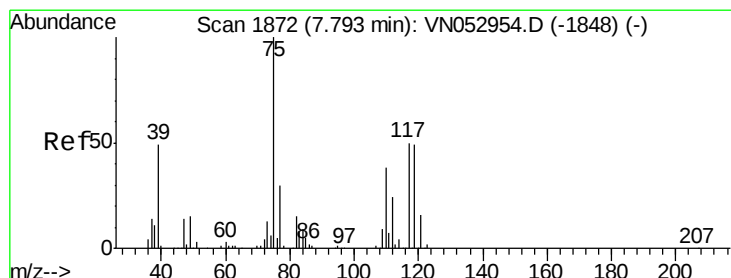
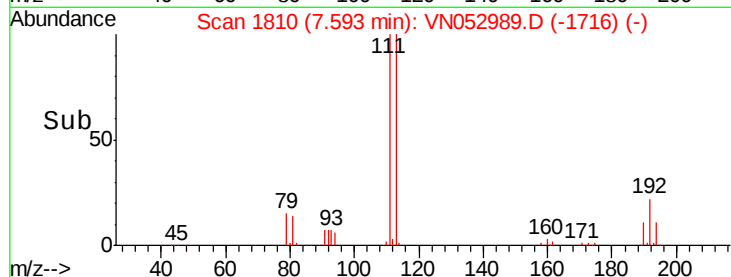
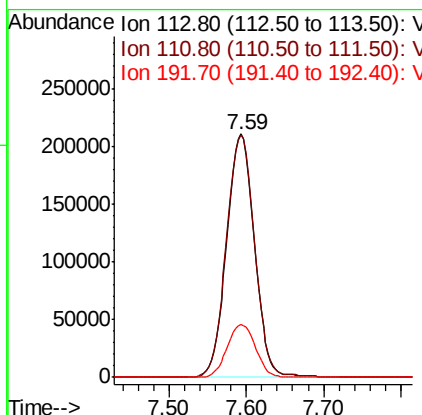
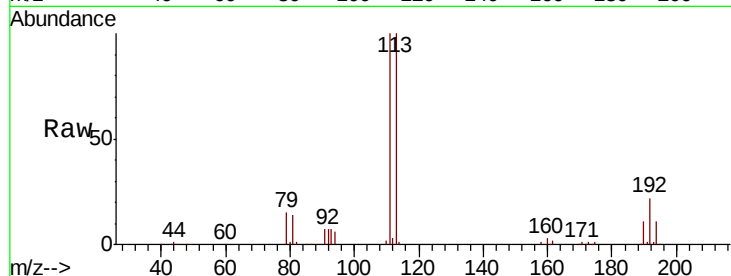




#35
Dibromofluoromethane
Concen: 50.000 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN052989.D
Acq: 19 Dec 2018 4:39

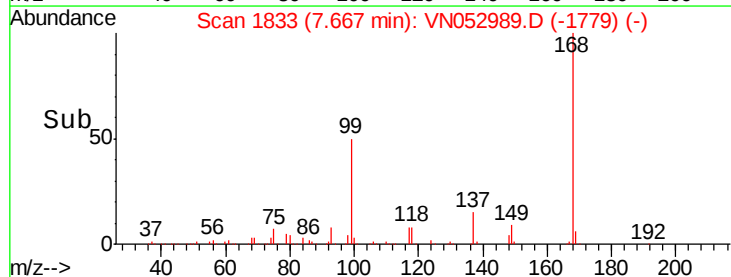
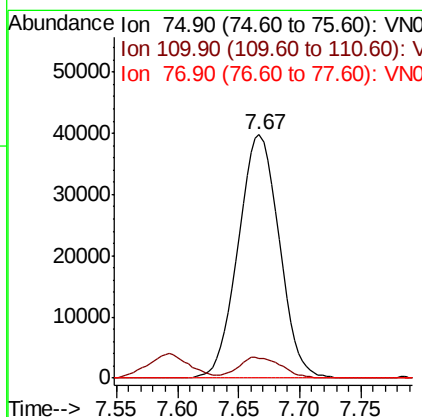
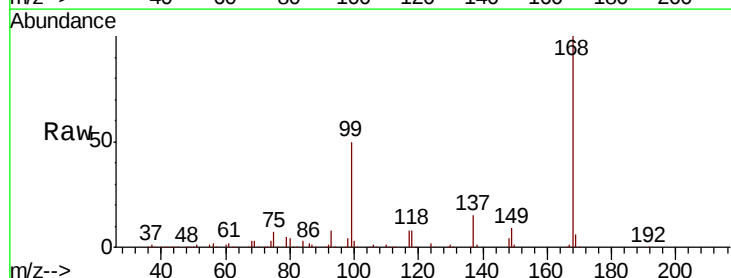
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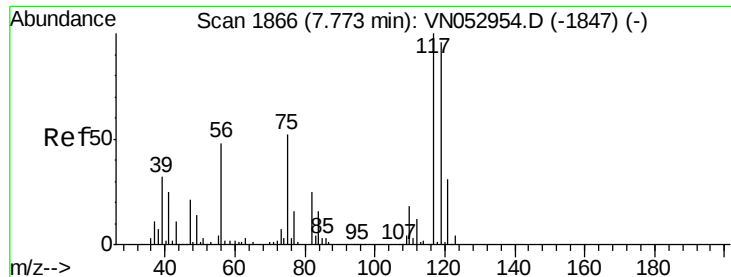
Tot Ion:113 Resp: 525272
Ion Ratio Lower Upper
113 100
111 101.1 83.0 124.4
192 22.1 17.5 26.3



#36
1,1-Dichloropropene
Concen: 4.354 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.13 min
Lab File: VN052989.D
Acq: 19 Dec 2018 4:39

Tgt Ion: 75 Resp: 92693
Ion Ratio Lower Upper
75 100
110 8.9 18.2 54.6#
77 0.0 24.9 37.3#





#38

Carbon Tetrachloride

Concen: 6.186 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052989.D

Acq: 19 Dec 2018 4:39

Instrument :

MSVOA_N

ClientSampleId :

PB115784ZHE#04

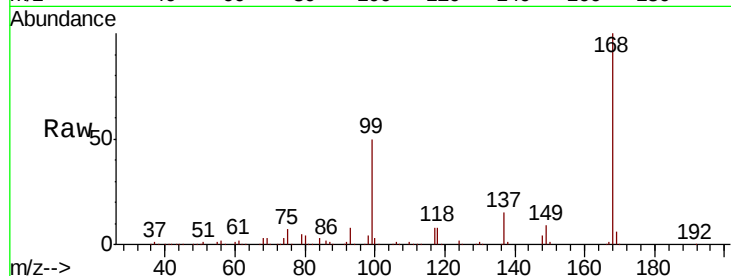
Tot Ion:117 Resp: 120713

Ion Ratio Lower Upper

117 100

119 5.0 77.1 115.7#

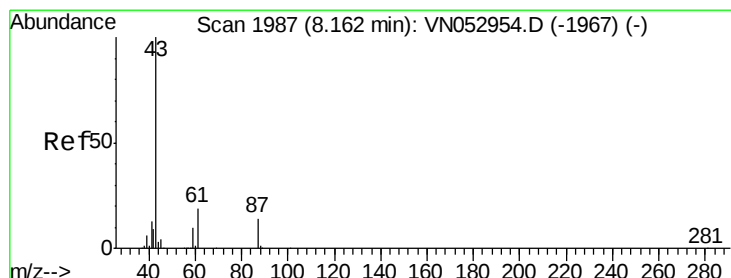
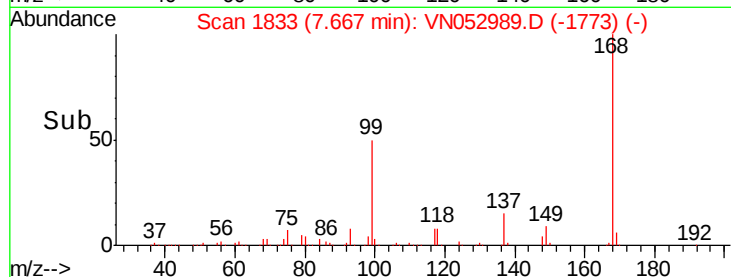
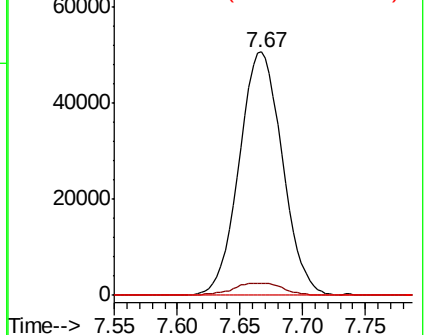
121 0.0 24.9 37.3#



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: 2.958 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052989.D

Acq: 19 Dec 2018 4:39

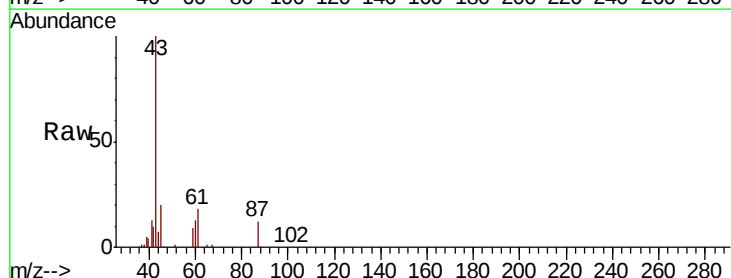
Tgt Ion: 43 Resp: 90621

Ion Ratio Lower Upper

43 100

61 16.8 22.9 34.3#

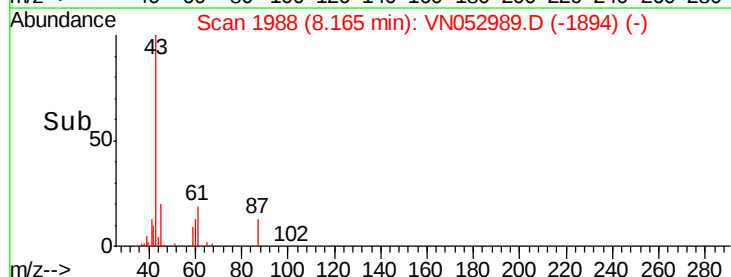
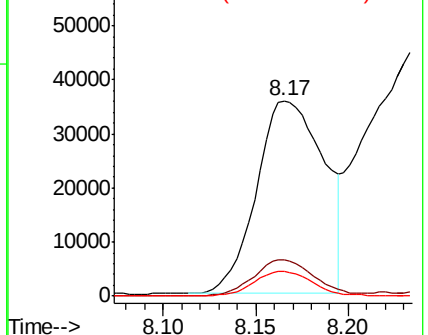
87 10.9 10.6 15.8

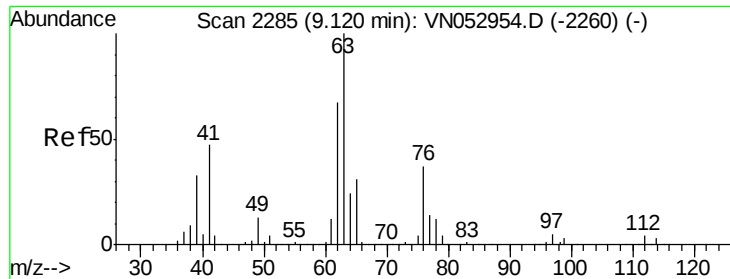


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

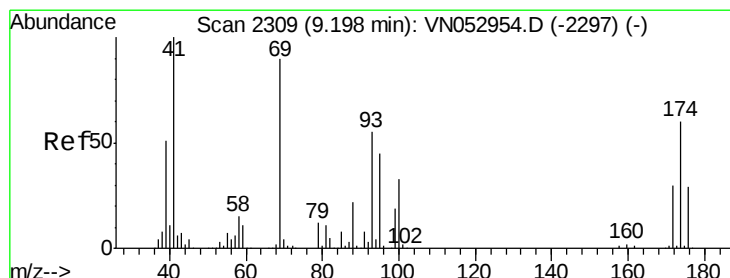
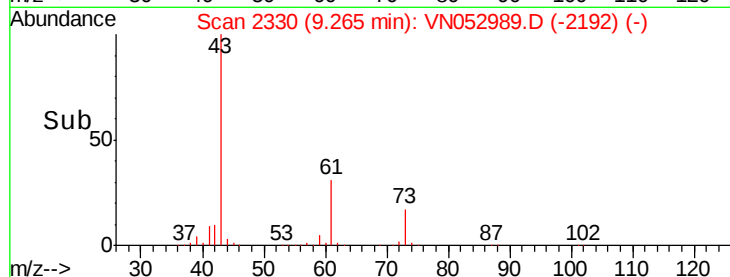
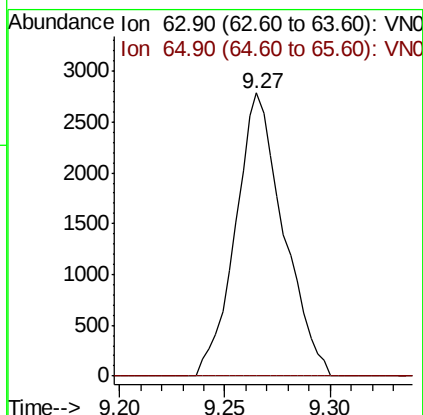
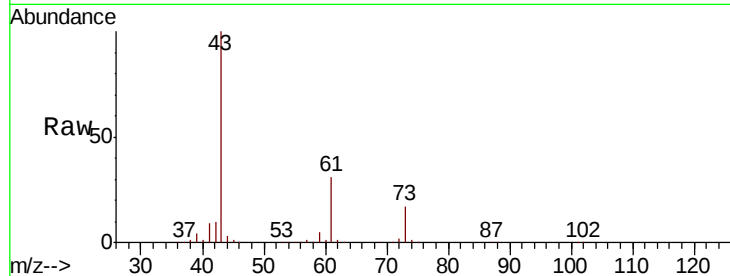




#45
 1,2-Dichloropropane
 Concen: 0.267 ug/l
 RT: 9.27 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN052989.D
 Acq: 19 Dec 2018 4:39

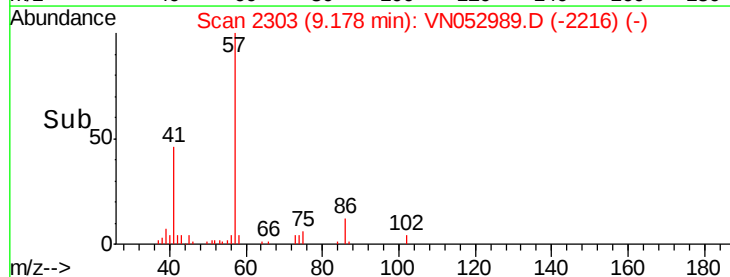
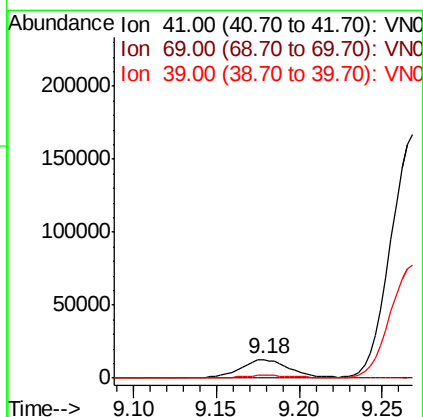
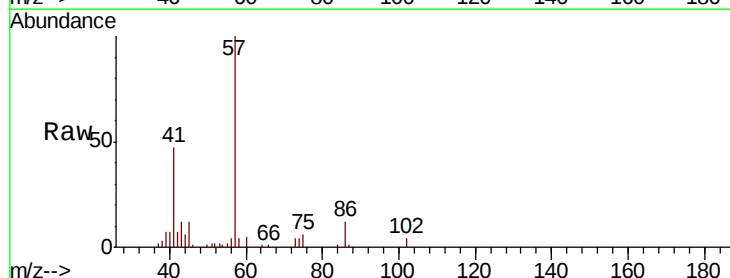
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115784ZHE#04

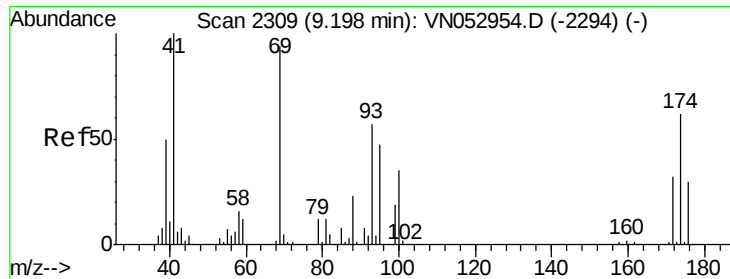
Tot Ion: 63 Resp: 4398
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.6 37.0#



#48
 Methyl methacrylate
 Concen: 2.192 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN052989.D
 Acq: 19 Dec 2018 4:39

Tgt Ion: 41 Resp: 25283
 Ion Ratio Lower Upper
 41 100
 69 0.0 72.2 108.2#
 39 17.6 41.9 62.9#





#49

1,4-Dioxane

Concen: 0.466 ug/l

RT: 9.19 min Scan# 2308

Delta R.T. -0.00 min

Lab File: VN052989.D

Acq: 19 Dec 2018 4:39

Instrument :

MSVOA_N

ClientSampleId :

PB115784ZHE#04

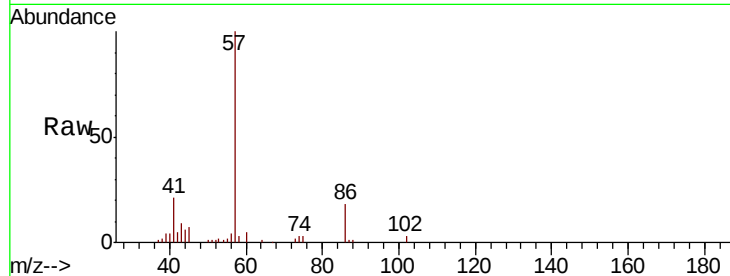
Tot Ion: 88 Resp: 68

Ion Ratio Lower Upper

88 100

43 0.0 26.6 40.0#

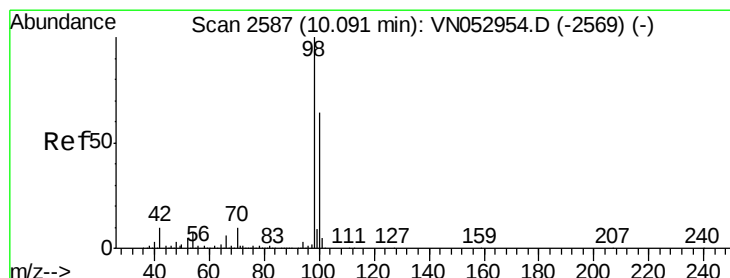
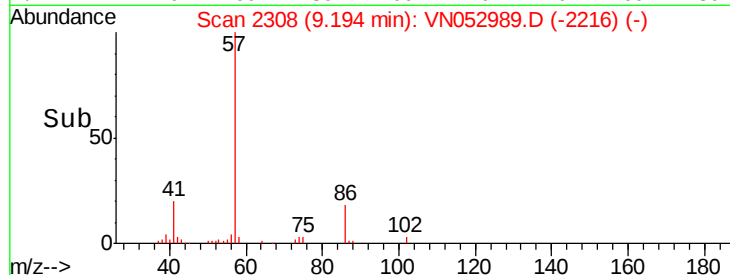
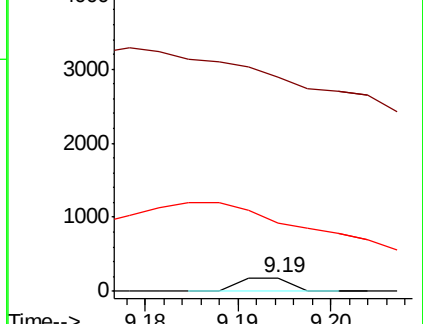
58 3935.3 58.4 87.6#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 0.466 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052989.D

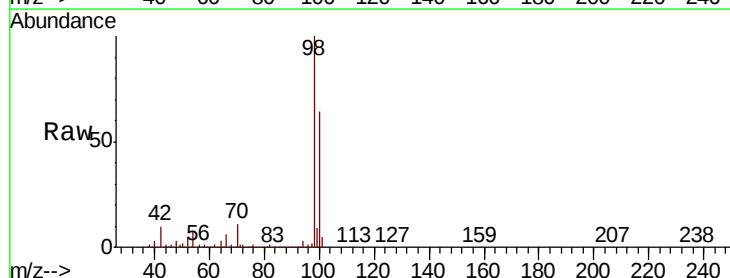
Acq: 19 Dec 2018 4:39

Tgt Ion: 98 Resp: 2714293

Ion Ratio Lower Upper

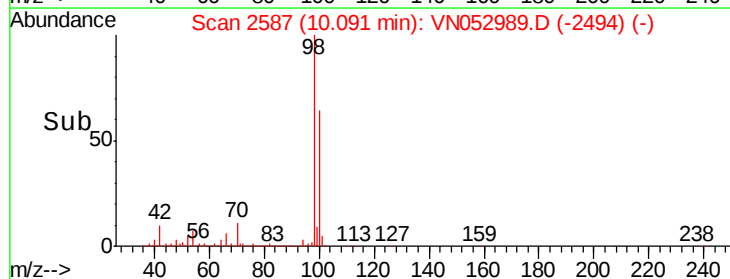
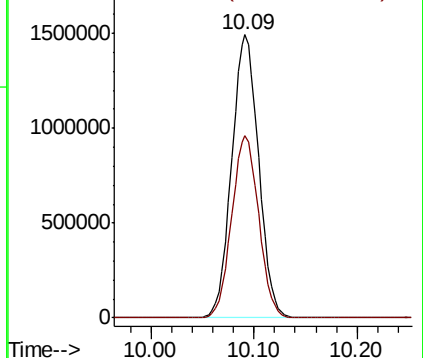
98 100

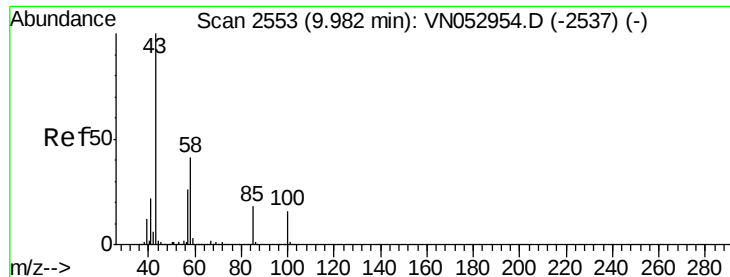
100 64.7 51.6 77.4



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: 2.655 ug/l

RT: 10.03 min Scan# 2567

Delta R.T. 0.04 min

Lab File: VN052989.D

Acq: 19 Dec 2018 4:39

Instrument :

MSVOA_N

ClientSampleId :

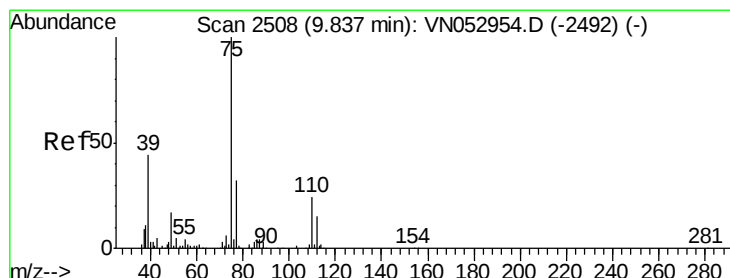
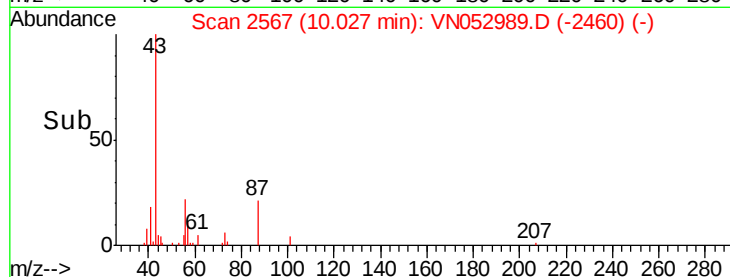
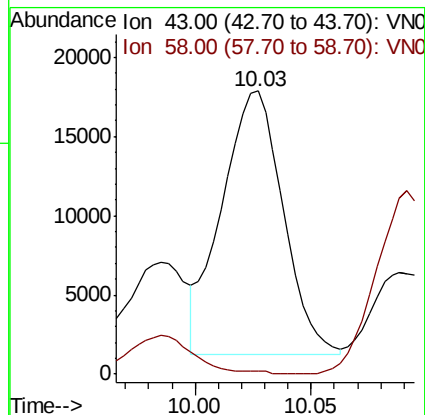
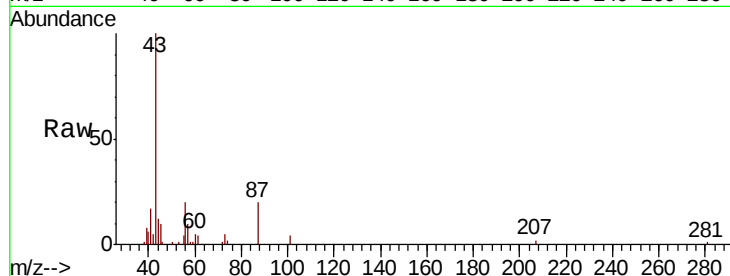
PB115784ZHE#04

Tot Ion: 43 Resp: 30552

Ion Ratio Lower Upper

43 100

58 0.0 32.2 48.4#



#54

cis-1,3-Dichloropropene

Concen: 8.313 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN052989.D

Acq: 19 Dec 2018 4:39

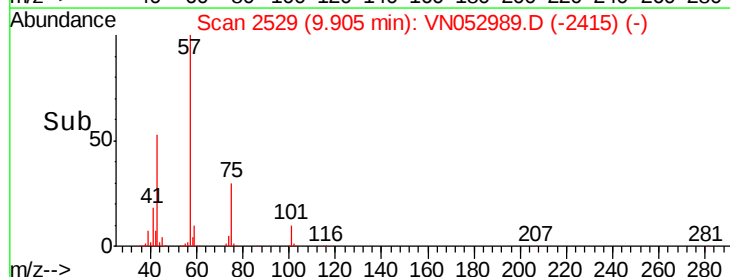
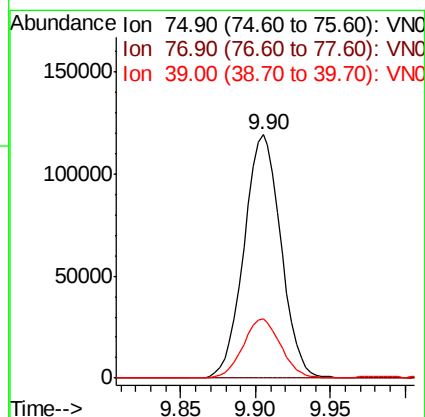
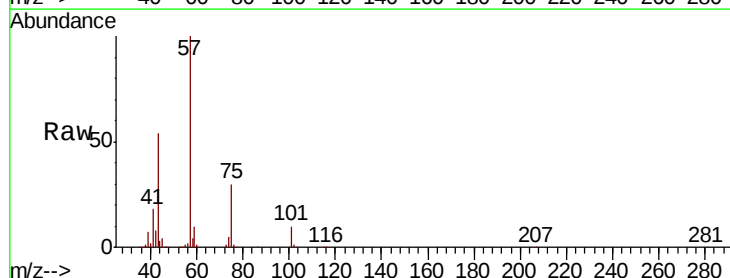
Tgt Ion: 75 Resp: 204936

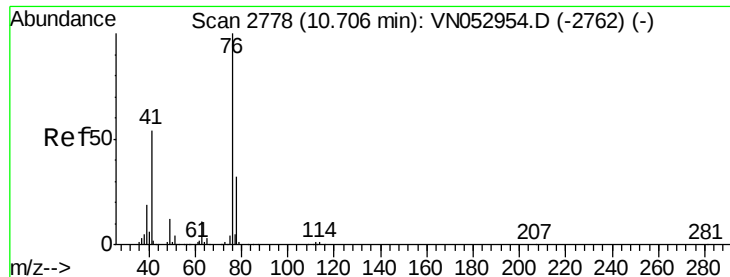
Ion Ratio Lower Upper

75 100

77 0.3 25.8 38.8#

39 24.1 34.8 52.2#





#57

1,3-Dichloropropane

Concen: 1.538 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN052989.D

Acq: 19 Dec 2018 4:39

Instrument :

MSVOA_N

ClientSampleId :

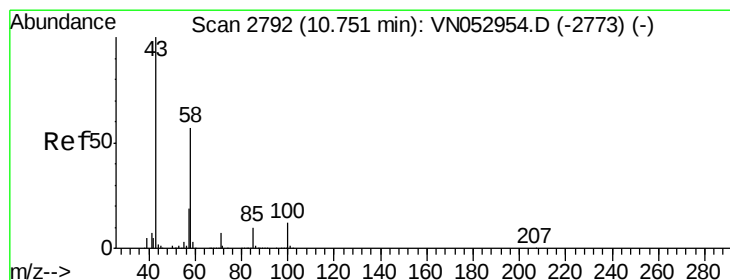
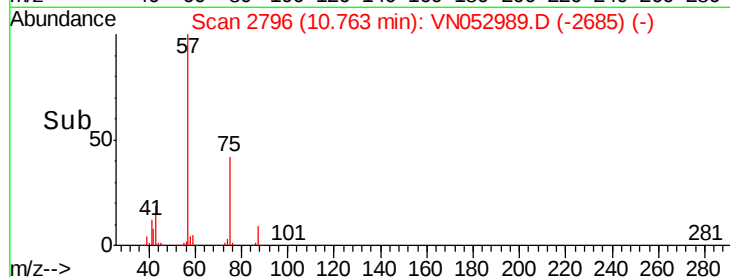
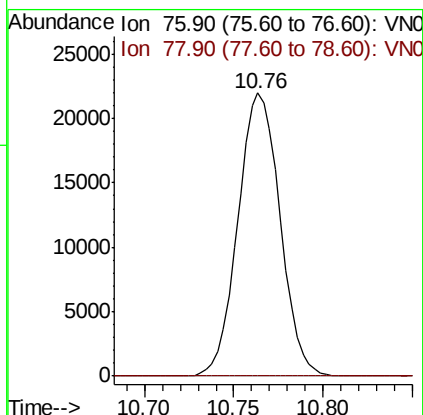
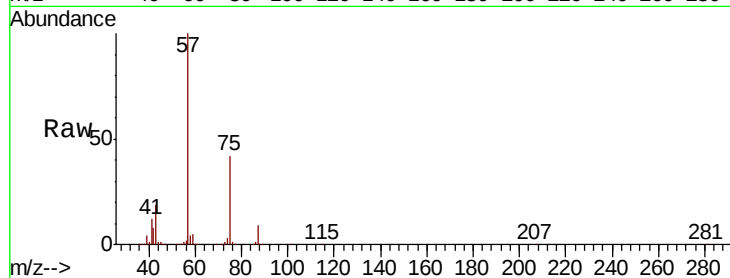
PB115784ZHE#04

Tot Ion: 76 Resp: 36112

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 61.495 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052989.D

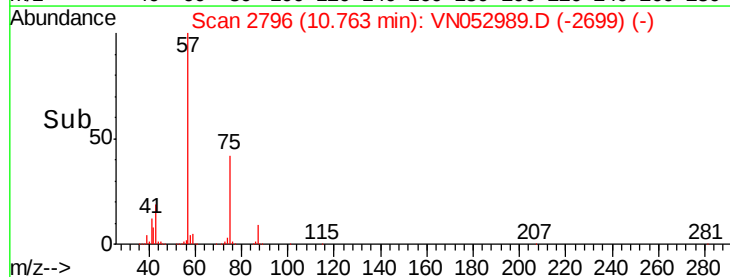
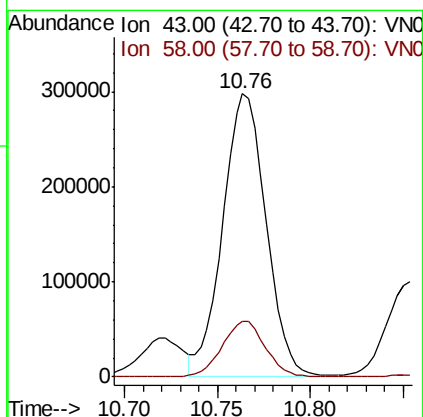
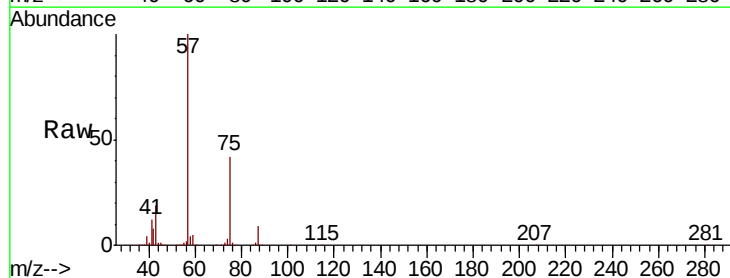
Acq: 19 Dec 2018 4:39

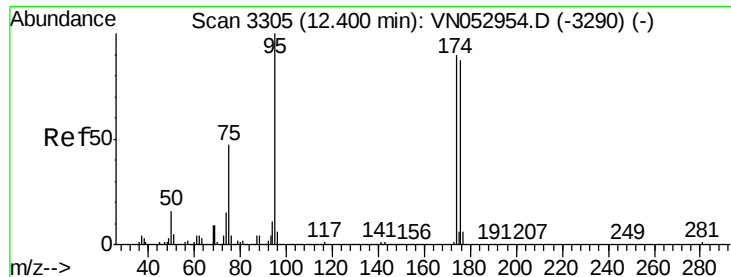
Tgt Ion: 43 Resp: 478849

Ion Ratio Lower Upper

43 100

58 19.8 28.1 84.3#





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN052989.D

Acq: 19 Dec 2018 4:39

Instrument :

MSVOA_N

ClientSampleId :

PB115784ZHE#04

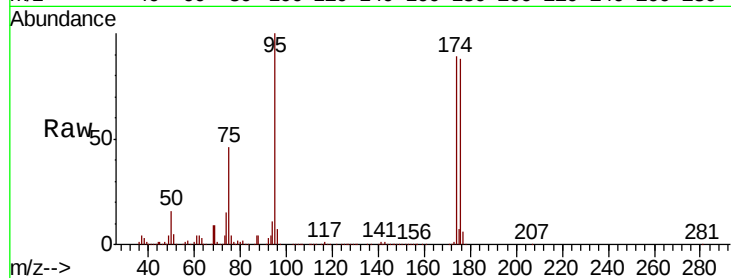
Tot Ion: 95 Resp: 920259

Ion Ratio Lower Upper

95 100

174 89.1 0.0 178.8

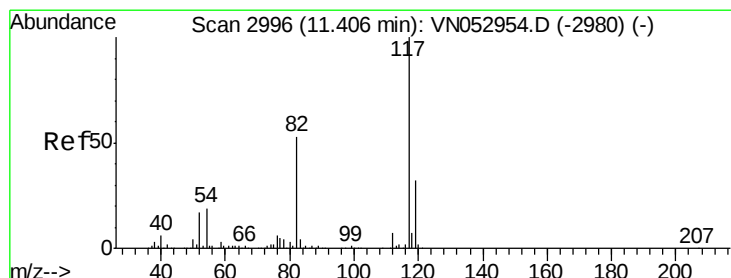
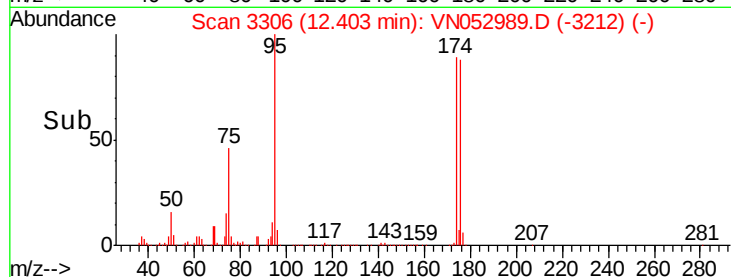
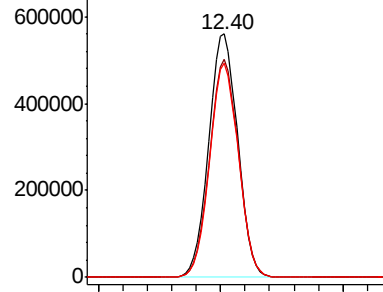
176 87.1 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VN052954.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN052954.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN052954.D (-3290) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. -0.00 min

Lab File: VN052989.D

Acq: 19 Dec 2018 4:39

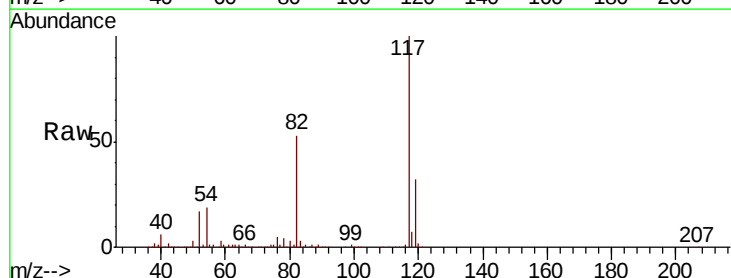
Tgt Ion: 117 Resp: 2021711

Ion Ratio Lower Upper

117 100

82 53.1 42.8 64.2

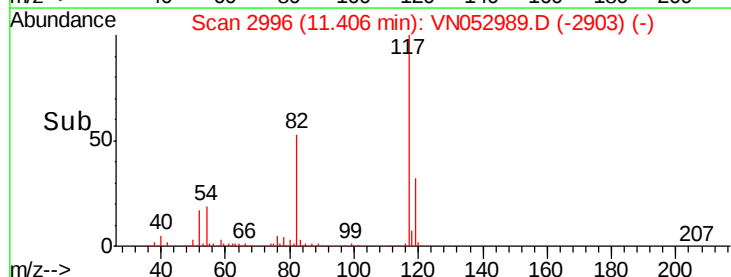
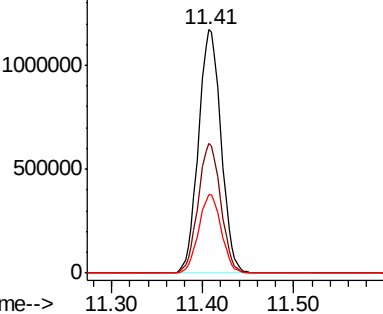
119 32.0 25.5 38.3

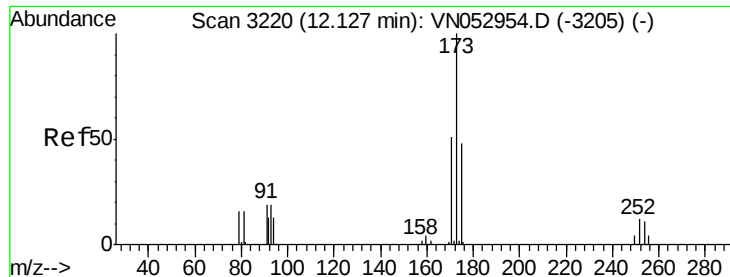


Abundance Ion 116.90 (116.60 to 117.60): VN052954.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN052954.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN052954.D (-2980) (-)





#71

Bromoform

Concen: 0.470 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052989.D

Acq: 19 Dec 2018 4:39

Instrument :

MSVOA_N

ClientSampleId :

PB115784ZHE#04

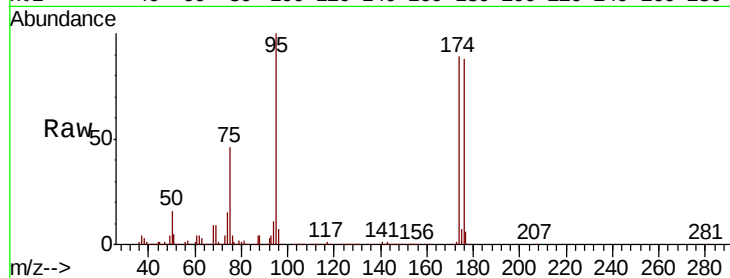
Tot Ion:173 Resp: 5288

Ion Ratio Lower Upper

173 100

175 984.9 24.3 72.9#

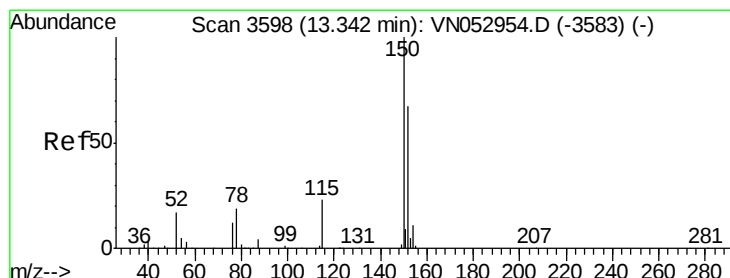
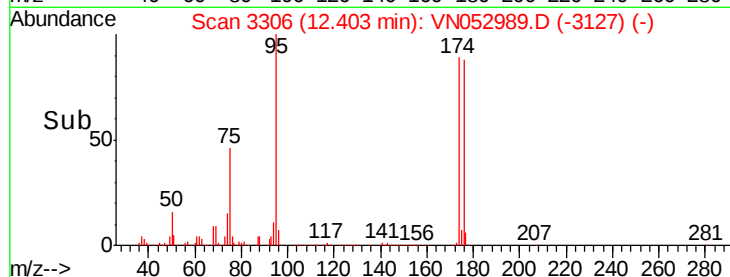
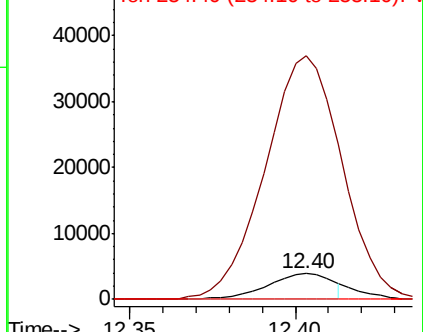
254 0.0 0.1 0.1#



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: VN052989.D

Acq: 19 Dec 2018 4:39

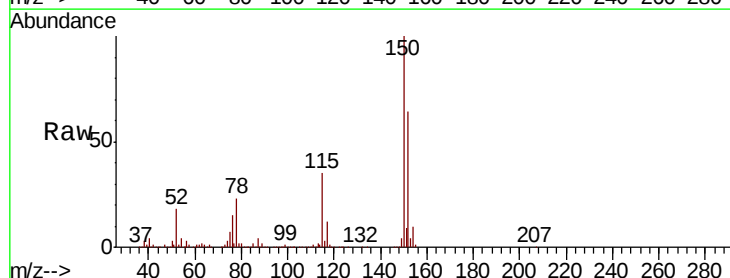
Tgt Ion:152 Resp: 837970

Ion Ratio Lower Upper

152 100

115 55.6 28.3 85.0

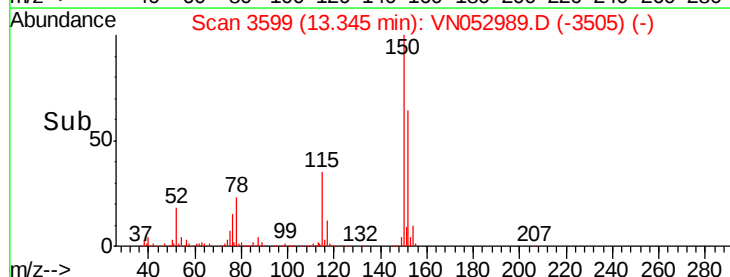
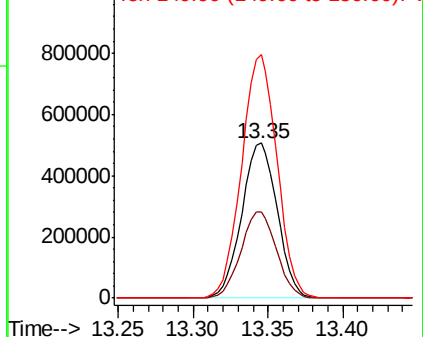
150 156.4 0.0 347.8

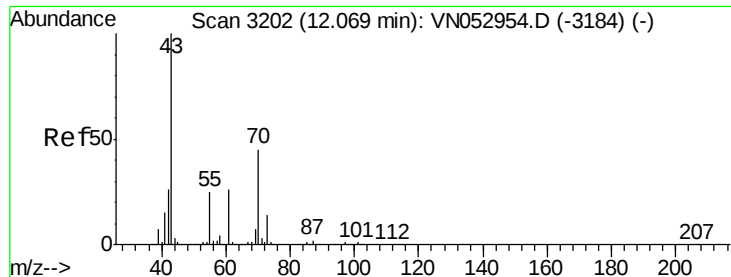


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amyl acetate

Concen: 3.365 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052989.D

Acq: 19 Dec 2018 4:39

Instrument :

MSVOA_N

ClientSampleId :

PB115784ZHE#04

Tot Ion: 43 Resp: 61245

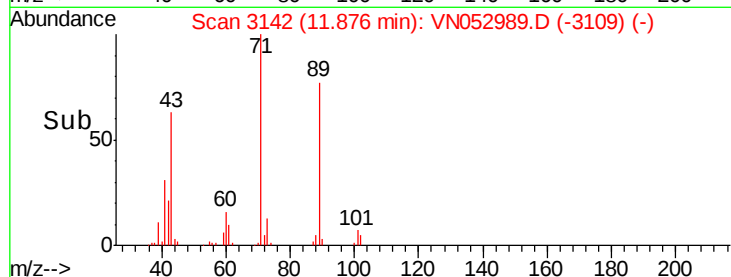
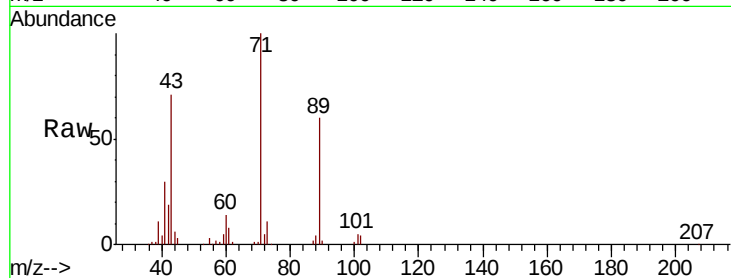
Ion Ratio Lower Upper

43 100

70 2.0 34.2 51.4#

55 4.5 20.3 30.5#

61 10.7 20.0 30.0#

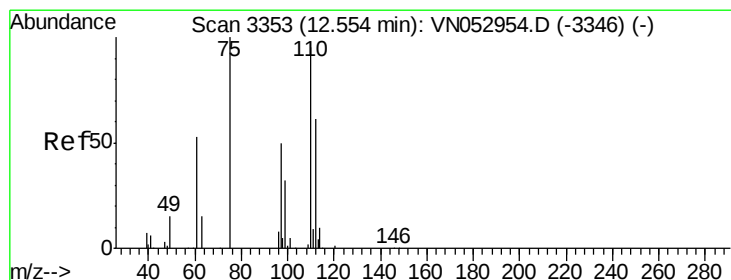
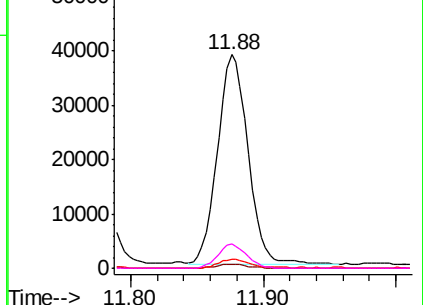


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 30.206 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN052989.D

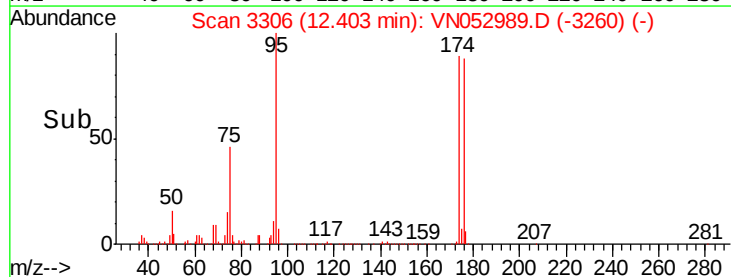
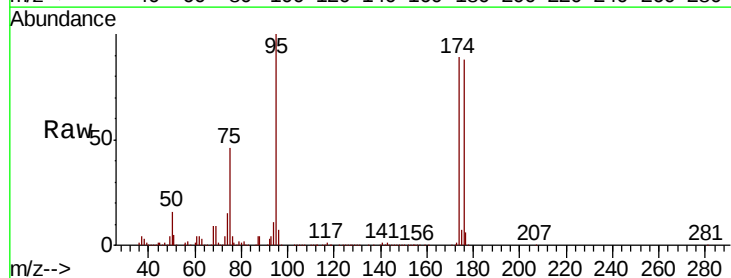
Acq: 19 Dec 2018 4:39

Tgt Ion: 75 Resp: 426096

Ion Ratio Lower Upper

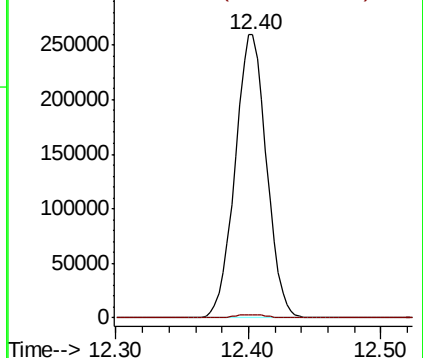
75 100

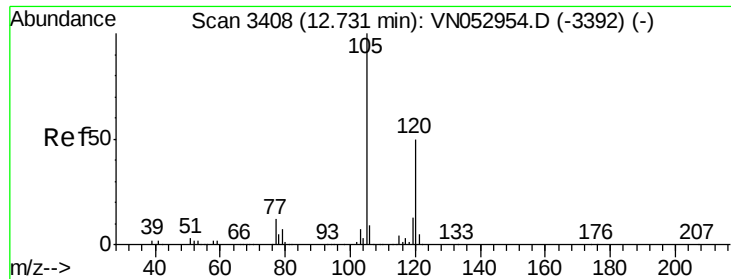
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

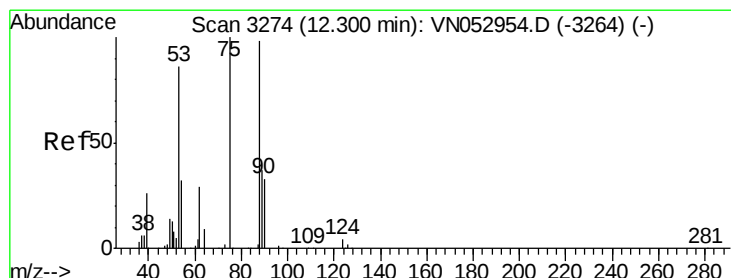
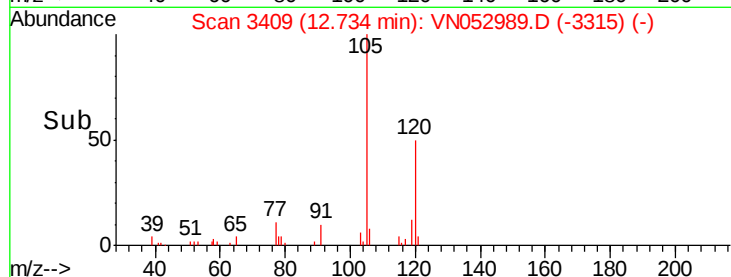
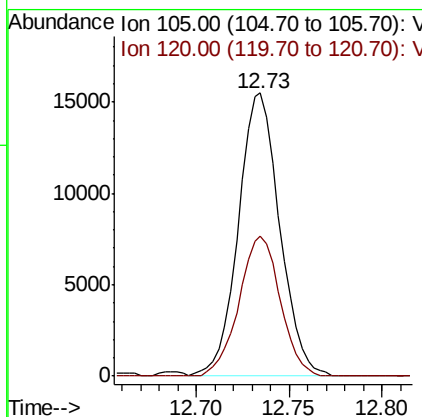
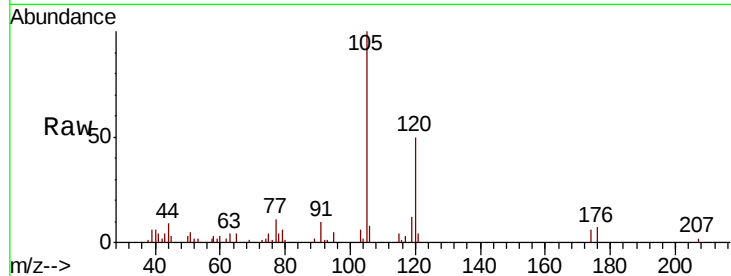




#80
 1,3,5-Trimethylbenzene
 Concen: 0.448 ug/l
 RT: 12.73 min Scan# 3409
 Delta R.T. 0.00 min
 Lab File: VN052989.D
 Acq: 19 Dec 2018 4:39

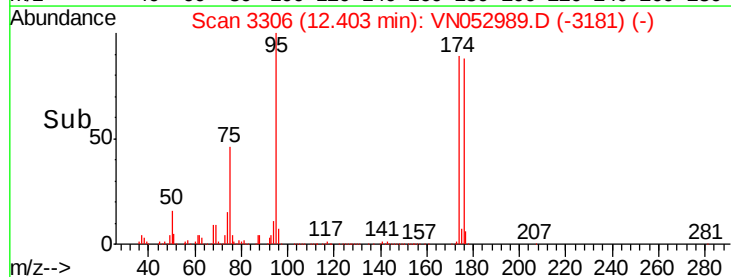
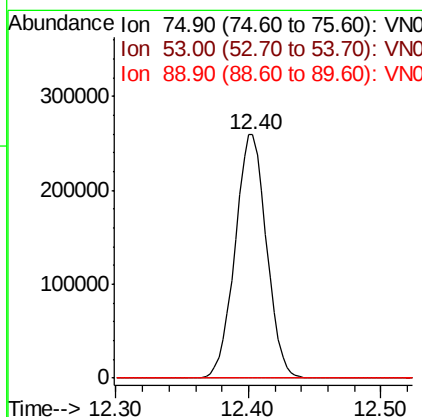
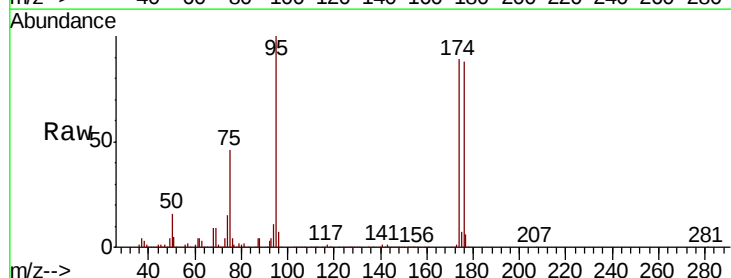
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115784ZHE#04

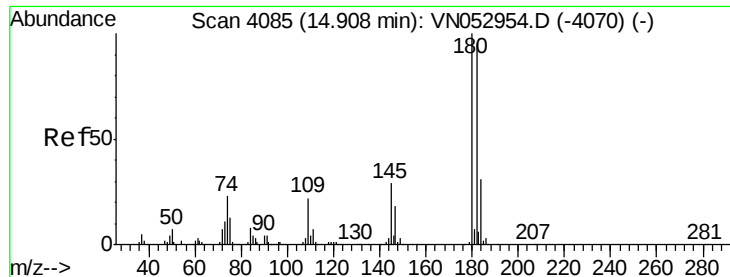
Tot Ion:105 Resp: 23917
 Ion Ratio Lower Upper
 105 100
 120 49.3 24.4 73.2



#81
 trans-1,4-Dichloro-2-butene
 Concen: 97.357 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN052989.D
 Acq: 19 Dec 2018 4:39

Tgt Ion: 75 Resp: 426096
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.7 112.1#
 89 0.0 36.1 54.1#

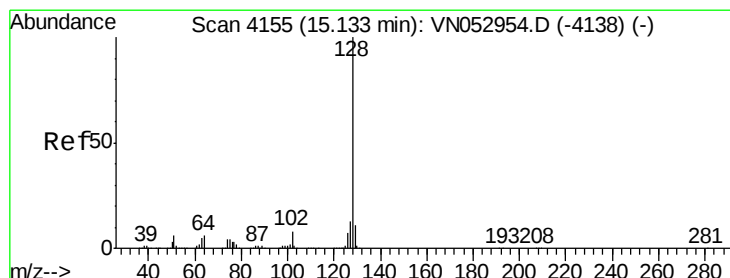
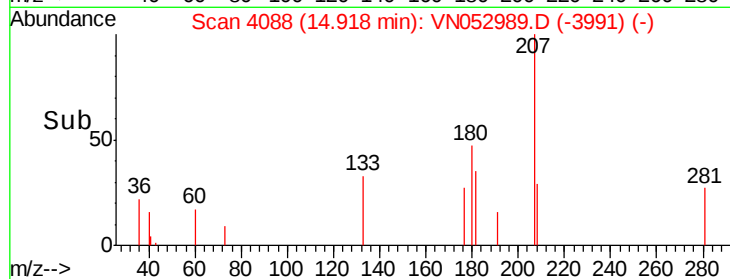
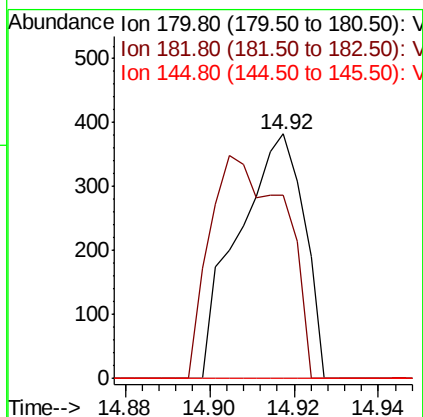
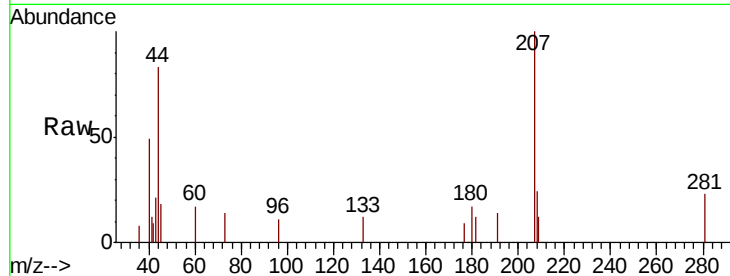




#93
 1,2,4-Trichlorobenzene
 Concen: 0.623 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. 0.01 min
 Lab File: VN052989.D
 Acq: 19 Dec 2018 4:39

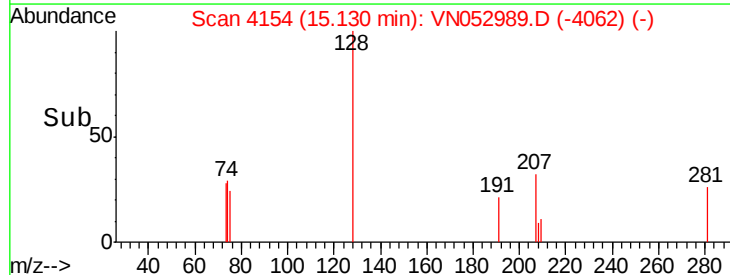
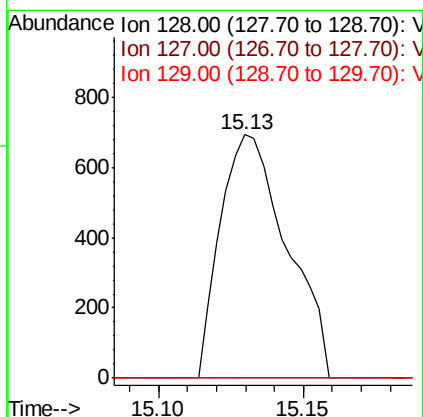
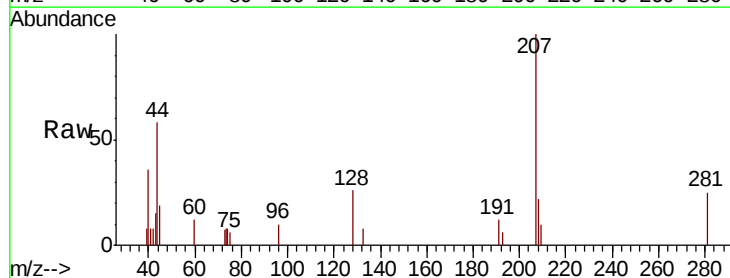
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115784ZHE#04

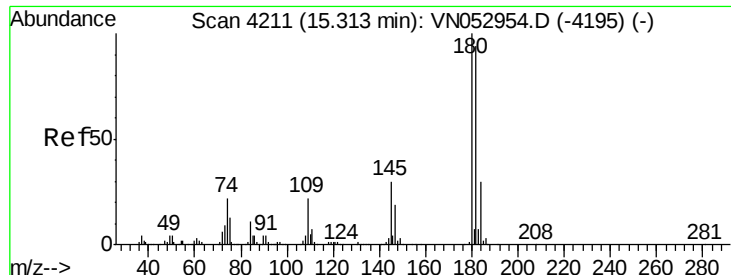
Tot Ion:180 Resp: 411
 Ion Ratio Lower Upper
 180 100
 182 103.2 47.8 143.3
 145 0.0 14.2 42.6#



#95
 Naphthalene
 Concen: 1.179 ug/l
 RT: 15.13 min Scan# 4154
 Delta R.T. -0.00 min
 Lab File: VN052989.D
 Acq: 19 Dec 2018 4:39

Tgt Ion:128 Resp: 1106
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.2 15.4#
 129 0.0 8.6 13.0#

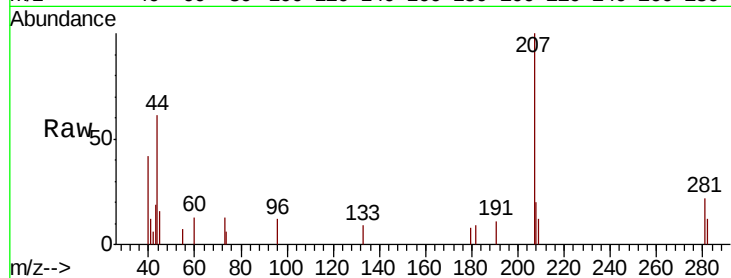




#96
 1,2,3-Trichlorobenzene
 Concen: 0.522 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN052989.D
 Acq: 19 Dec 2018 4:39

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115784ZHE#04

Tot Ion	Ratio	Lower	Upper
180	100		
182	171.4	47.9	143.7#
145	0.0	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

