

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN022619\
 Data File : VN053961.D
 Acq On : 26 Feb 2019 17:58
 Operator : JC/SP
 Sample : PB117375ZHE#04
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB117375ZHE#04

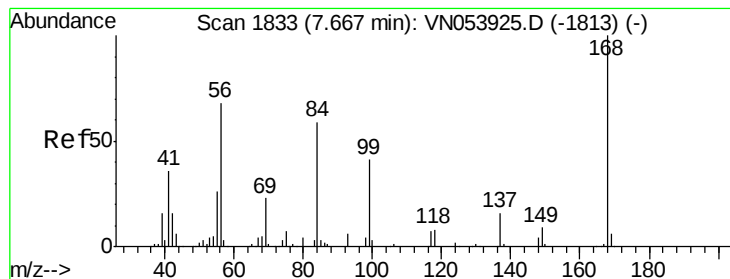
Quant Time: Feb 27 02:29:27 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Feb 26 05:37:40 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	637815	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1160889	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1128477	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	405351	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	405965	54.30	ug/l	0.00
Spiked Amount			Recovery	=	108.60%	
35) Dibromofluoromethane	7.59	113	373012	49.69	ug/l	0.00
Spiked Amount			Recovery	=	99.38%	
50) Toluene-d8	10.09	98	1474250	52.76	ug/l	0.00
Spiked Amount			Recovery	=	105.52%	
62) 4-Bromofluorobenzene	12.40	95	481263	51.69	ug/l	0.00
Spiked Amount			Recovery	=	103.38%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.77	59	145	0.306	ug/l #	73
16) Acetone	3.82	43	20295	Below Cal		92
18) Methyl Acetate	4.33	43	4868	0.931	ug/l #	68
20) Methylene Chloride	4.56	84	17894	2.418	ug/l #	91
25) 2-Butanone	6.84	43	4590	1.564	ug/l	90
29) Tetrahydrofuran	7.21	42	1086	0.556	ug/l #	60
31) Cyclohexane	7.66	56	11783	0.580	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	41697	3.862	ug/l #	47
38) Carbon Tetrachloride	7.66	117	55595	4.951	ug/l #	16
43) Isopropyl Acetate	8.17	43	41150	3.162	ug/l #	85
45) 1,2-Dichloropropane	9.27	63	2207	0.247	ug/l #	44
48) Methyl methacrylate	9.18	41	10459	1.747	ug/l #	12
49) 1,4-Dioxane	9.27	88	152	1.875	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	11254	1.683	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	73643	5.865	ug/l #	71
56) Ethyl methacrylate	10.55	69	1766	2.132	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	13025	1.057	ug/l #	43
59) 2-Hexanone	10.76	43	196092	45.080	ug/l #	49
71) Bromoform	12.40	173	3903	0.654	ug/l #	1
74) N-amyl acetate	11.88	43	19260	2.329	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	232026	35.682	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	5880	0.228	ug/l	93
81) trans-1,4-Dichloro-2-buten	12.40	75	232026	112.778	ug/l #	15
95) Naphthalene	15.14	128	167	3.222	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053961.D

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MSVOA_N

ClientSampleId :

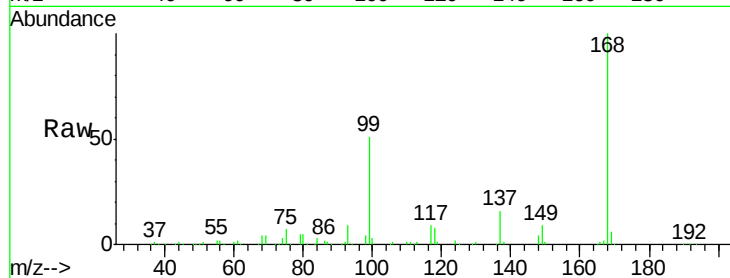
PB117375ZHE#04

Tot Ion:168 Resp: 637815

Ion Ratio Lower Upper

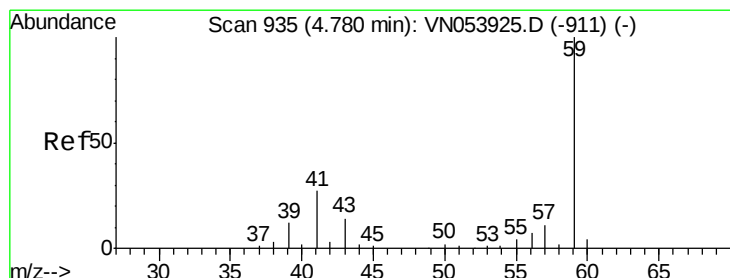
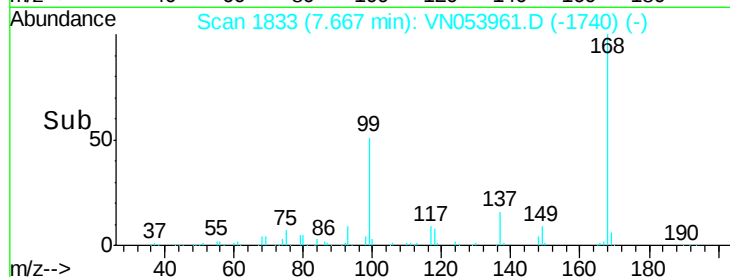
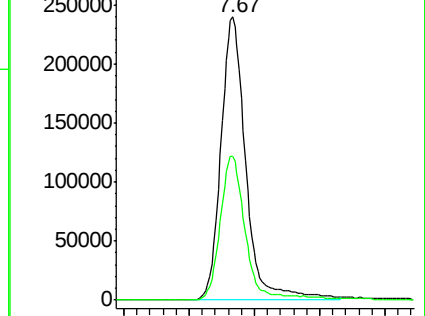
168 100

99 50.9 36.9 55.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.306 ug/l

RT: 4.77 min Scan# 931

Delta R.T. -0.01 min

Lab File: VN053961.D

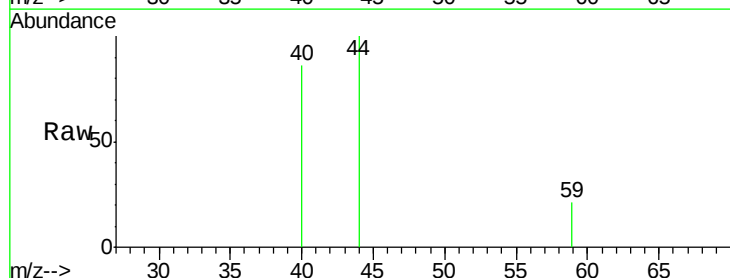
Acq: 26 Feb 2019 17:58

Tgt Ion: 59 Resp: 145

Ion Ratio Lower Upper

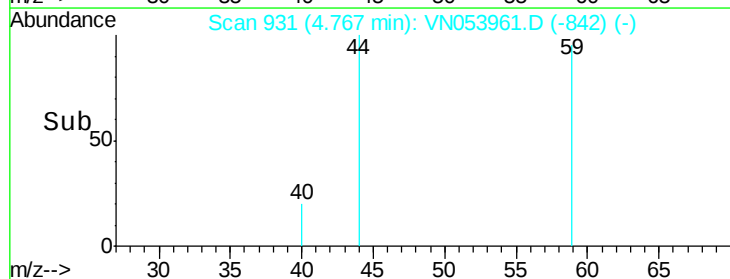
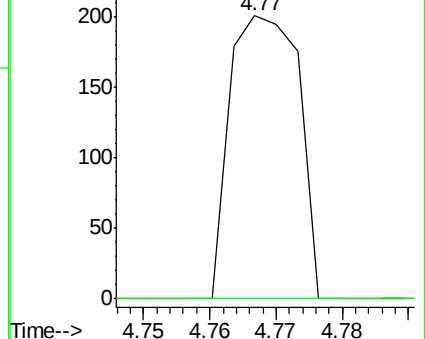
59 100

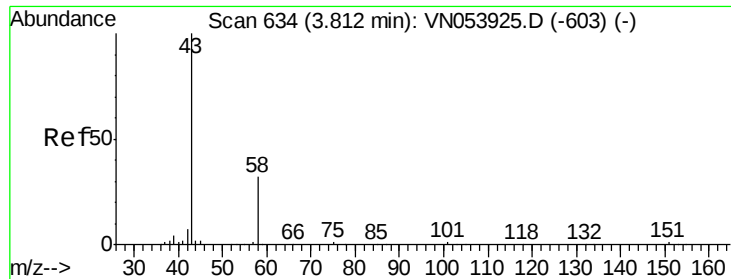
57 0.0 8.1 12.1#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: Below Cal

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN053961.D

Acq: 26 Feb 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

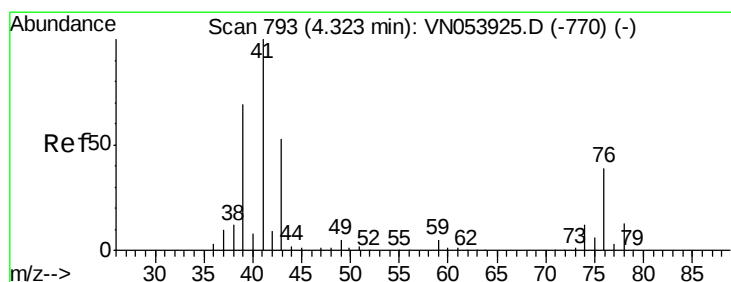
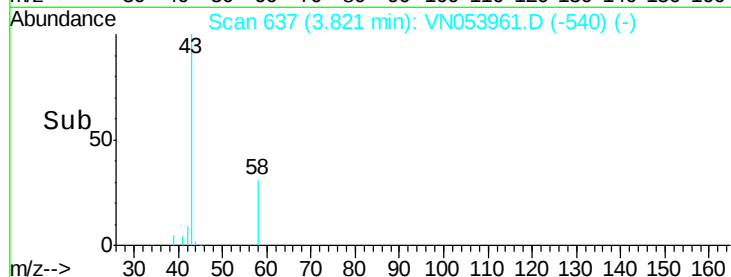
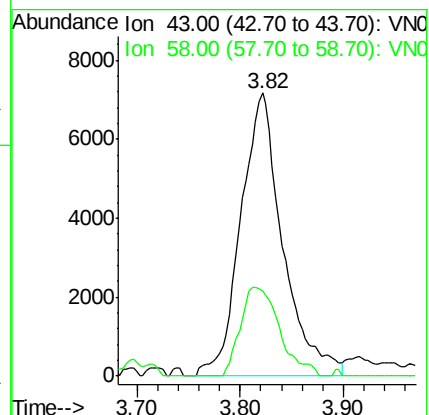
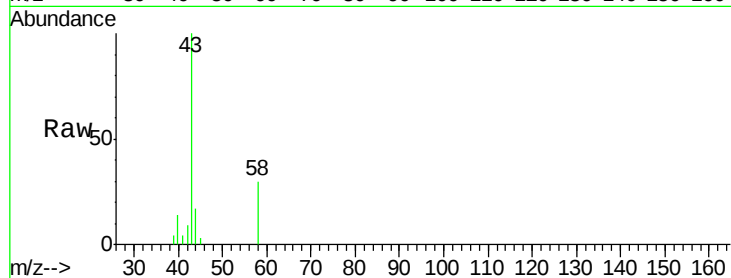
PB117375ZHE#04

Tot Ion: 43 Resp: 20295

Ion Ratio Lower Upper

43 100

58 29.9 27.6 41.4



#18

Methyl Acetate

Concen: 0.931 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN053961.D

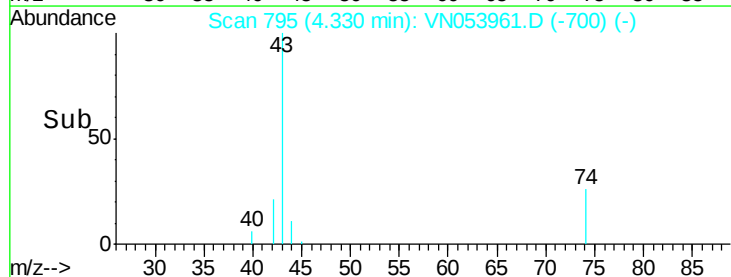
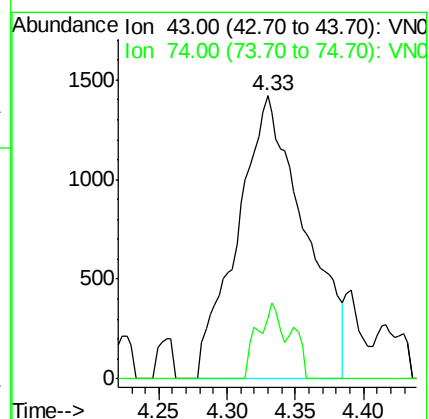
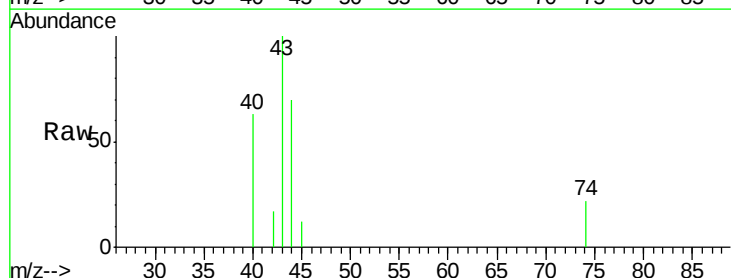
Acq: 26 Feb 2019 17:58

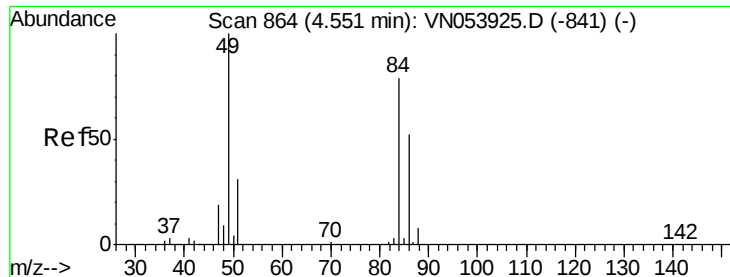
Tgt Ion: 43 Resp: 4868

Ion Ratio Lower Upper

43 100

74 9.4 20.5 30.7#

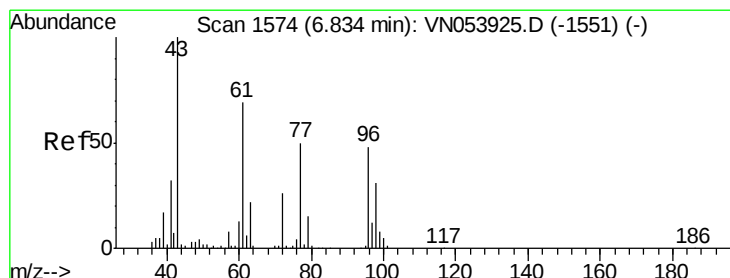
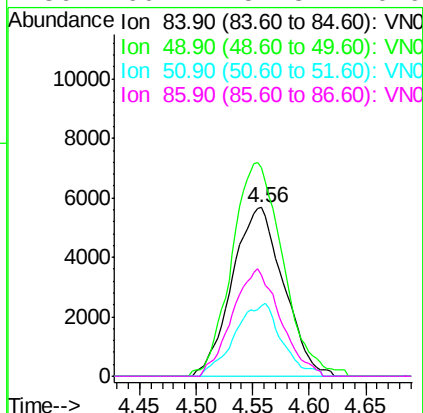
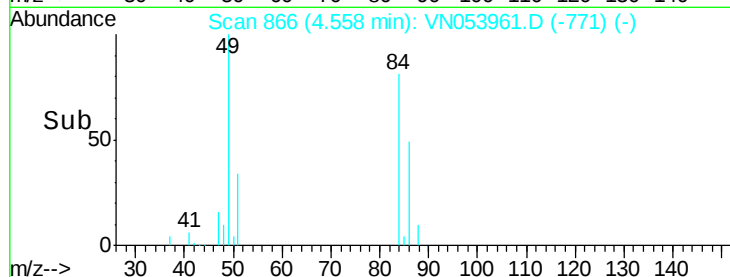
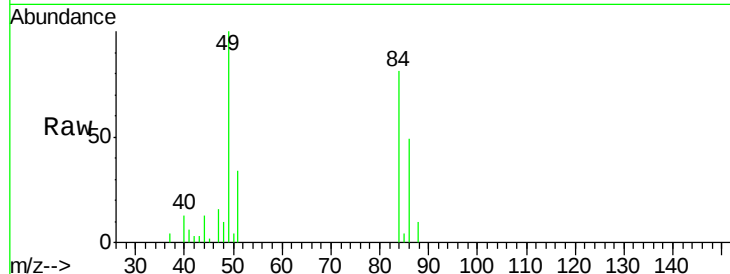




#20
Methvlene Chloride
Concen: 2.418 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.01 min
Lab File: VN053961.D
Acq: 26 Feb 2019 17:58

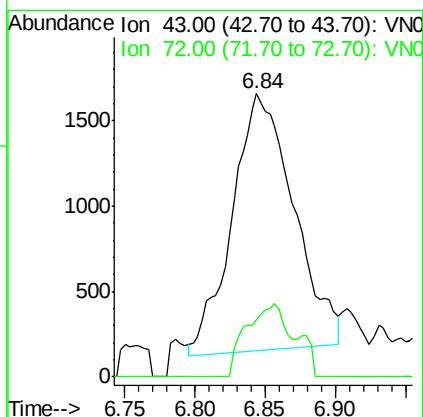
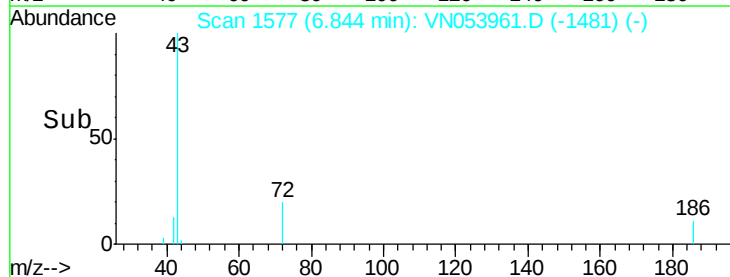
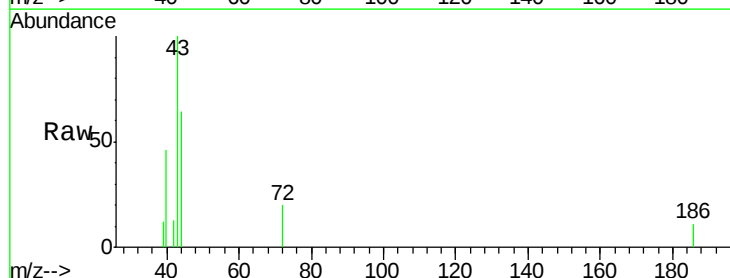
Instrument :
MSVOA_N
ClientSampleId :
PB117375ZHE#04

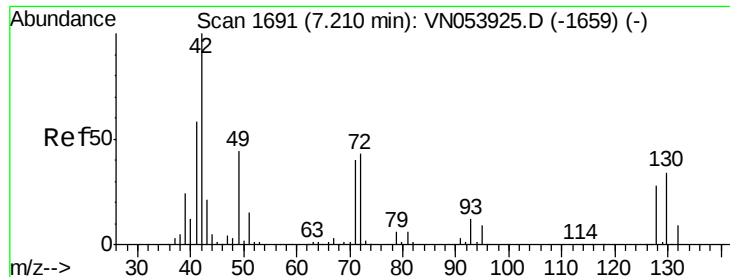
Tot Ion: 84 Resp: 17894
Ion Ratio Lower Upper
84 100
49 123.4 89.7 134.5
51 42.0 27.8 41.8#
86 60.2 51.3 76.9



#25
2-Butanone
Concen: 1.564 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN053961.D
Acq: 26 Feb 2019 17:58

Tgt Ion: 43 Resp: 4590
Ion Ratio Lower Upper
43 100
72 22.5 22.1 33.1





#29

Tetrahydrofuran

Concen: 0.556 ug/l

RT: 7.21 min Scan# 1691

Delta R.T. 0.00 min

Lab File: VN053961.D

Acq: 26 Feb 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

PB117375ZHE#04

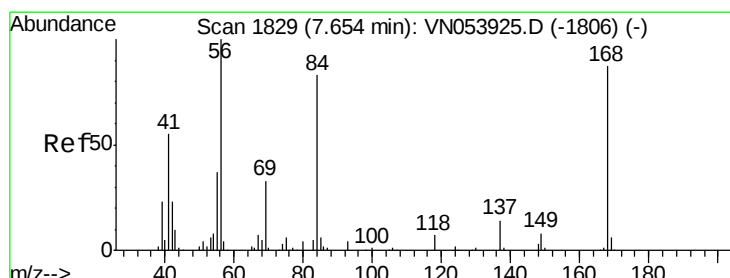
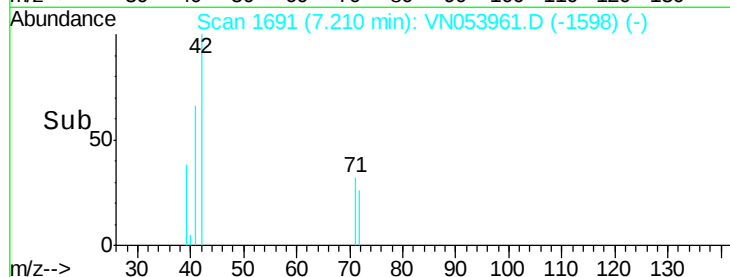
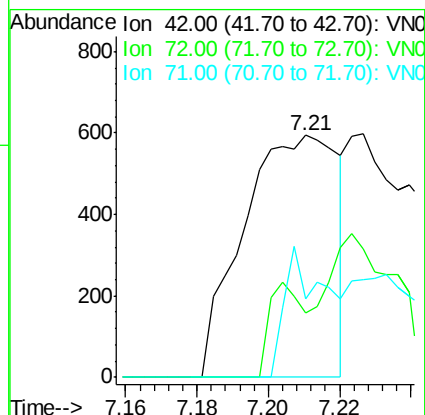
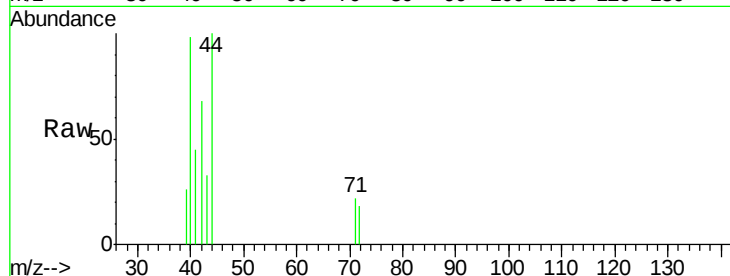
Tot Ion: 42 Resp: 1086

Ion Ratio Lower Upper

42 100

72 14.0 36.9 55.3#

71 23.7 34.6 52.0#



#31

Cyclohexane

Concen: 0.580 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.01 min

Lab File: VN053961.D

Acq: 26 Feb 2019 17:58

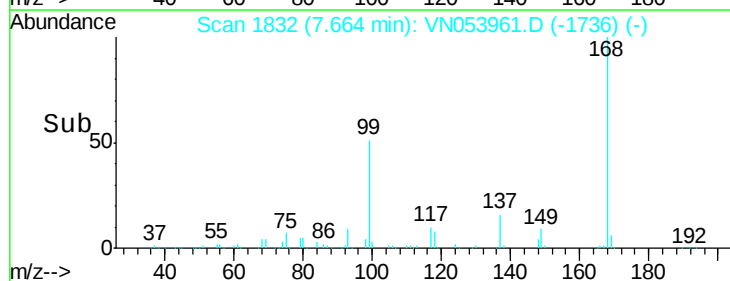
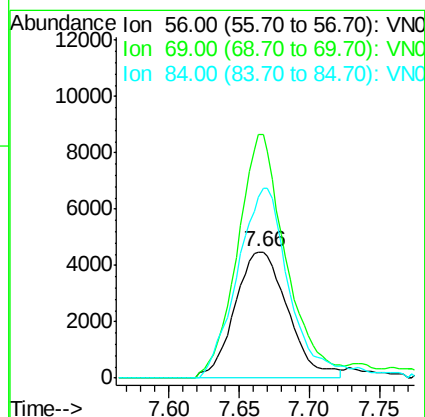
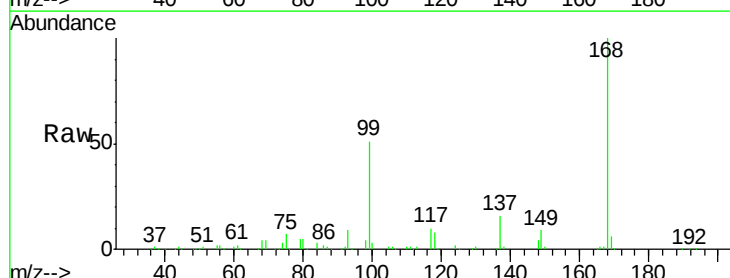
Tgt Ion: 56 Resp: 11783

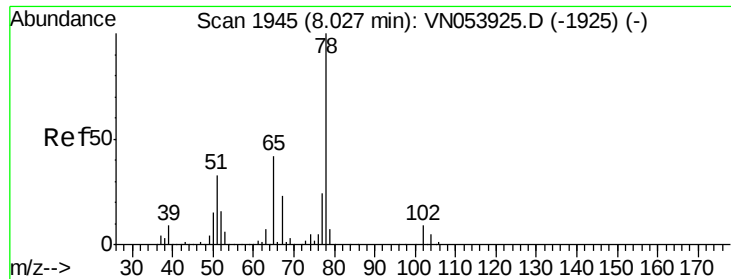
Ion Ratio Lower Upper

56 100

69 192.6 26.0 39.0#

84 143.4 69.1 103.7#

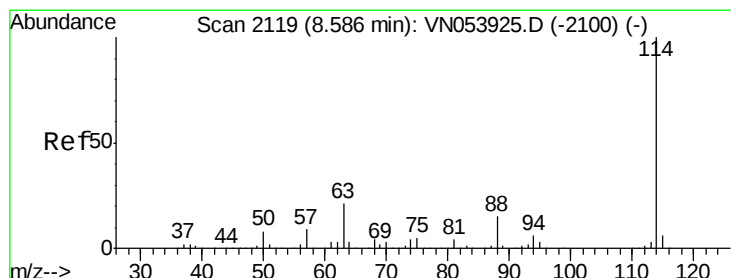
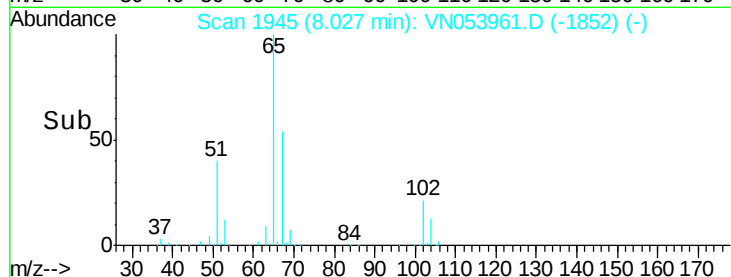
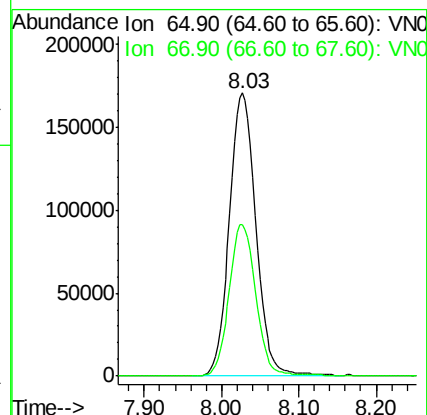
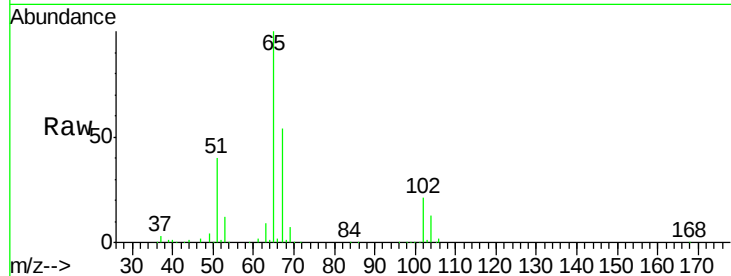




#33
 1,2-Dichloroethane-d4
 Concen: 54.298 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053961.D
 Acq: 26 Feb 2019 17:58

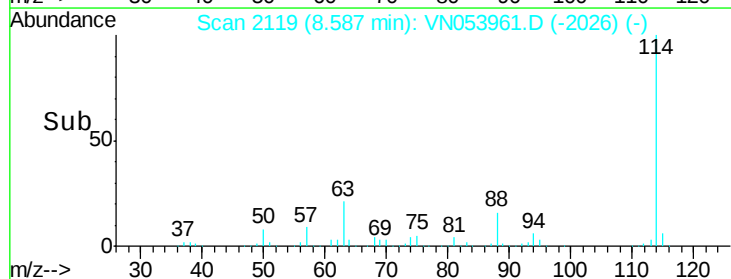
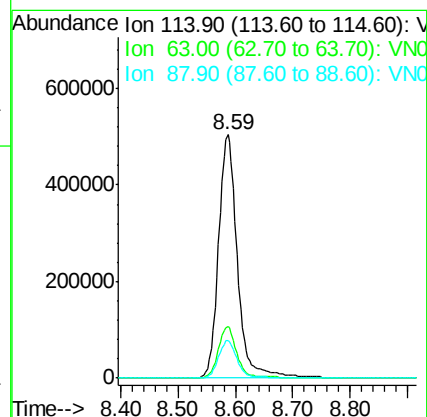
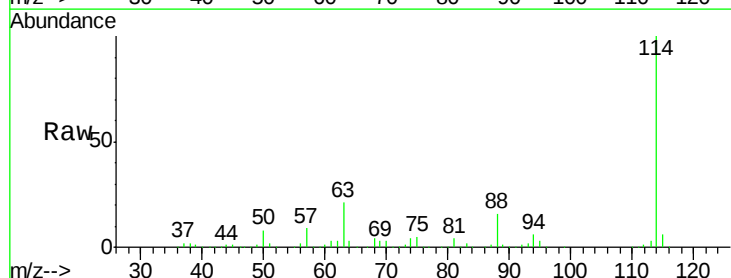
Instrument :
 MSVOA_N
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 PB117375ZHE#04

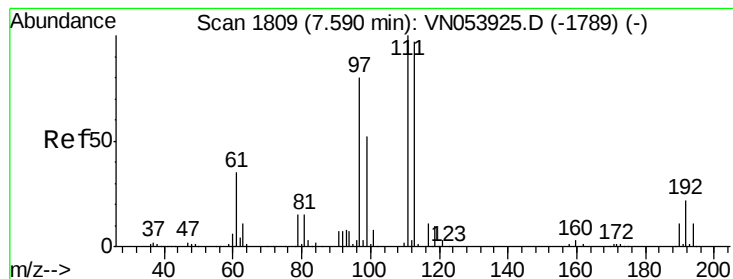
Tot Ion: 65 Resp: 405965
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 111.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053961.D
 Acq: 26 Feb 2019 17:58

Tgt Ion: 114 Resp: 1160889
 Ion Ratio Lower Upper
 114 100
 63 21.3 0.0 37.4
 88 15.7 0.0 30.4





#35

Dibromofluoromethane

Concen: 49.689 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN053961.D

Acq: 26 Feb 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

PB117375ZHE#04

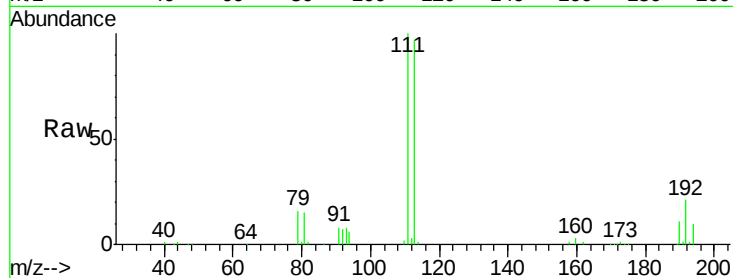
Tot Ion:113 Resp: 373012

Ion Ratio Lower Upper

113 100

111 102.9 81.1 121.7

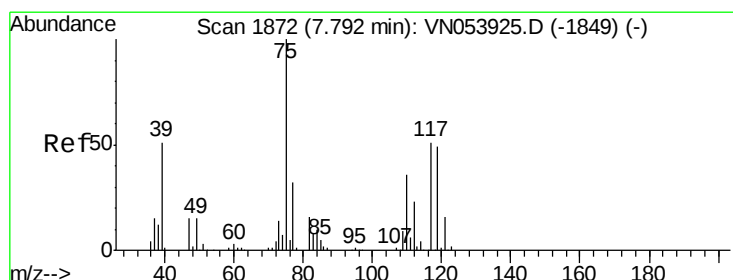
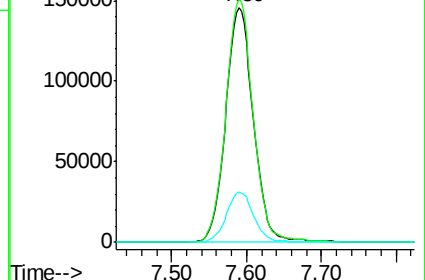
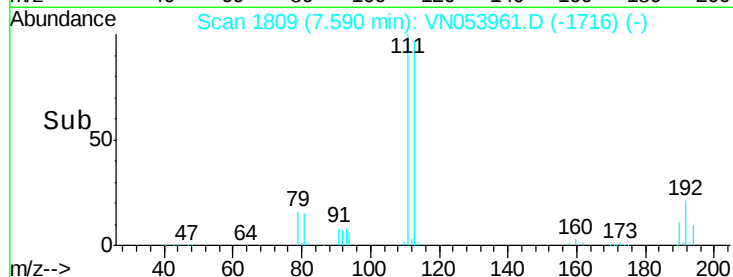
192 21.1 18.8 28.2



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: 3.862 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN053961.D

Acq: 26 Feb 2019 17:58

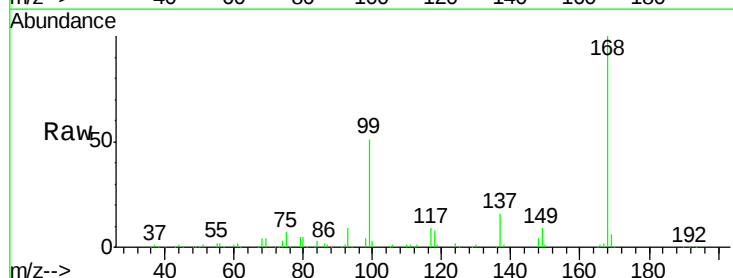
Tgt Ion: 75 Resp: 41697

Ion Ratio Lower Upper

75 100

110 8.6 19.0 57.0#

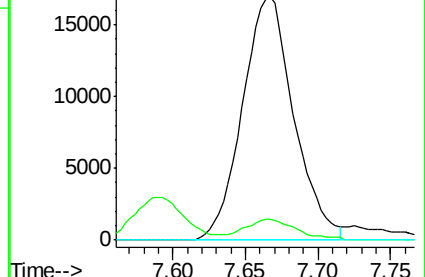
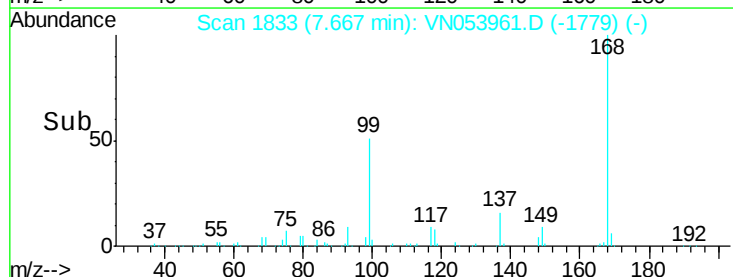
77 0.0 25.4 38.0#

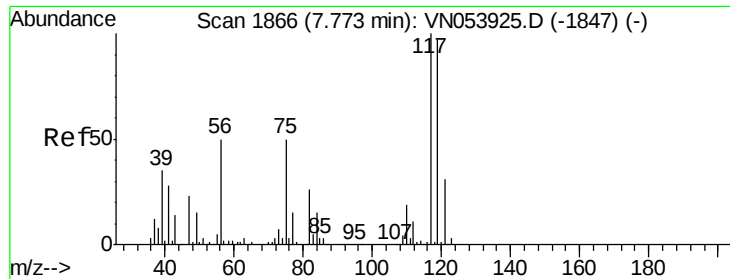


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 4.951 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN053961.D

Acq: 26 Feb 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

PB117375ZHE#04

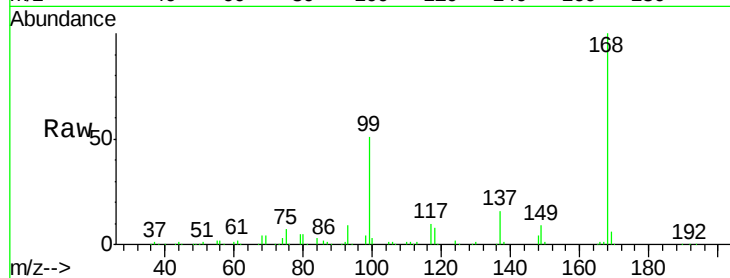
Tot Ion:117 Resp: 55595

Ion Ratio Lower Upper

117 100

119 5.0 76.2 114.2#

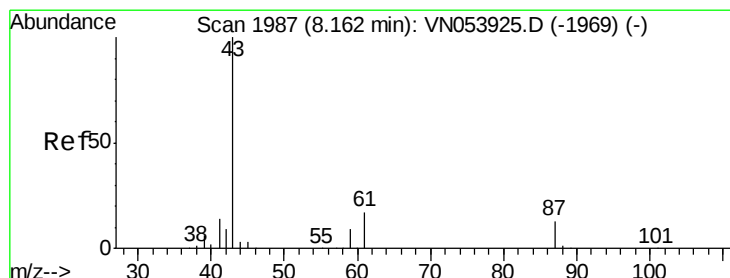
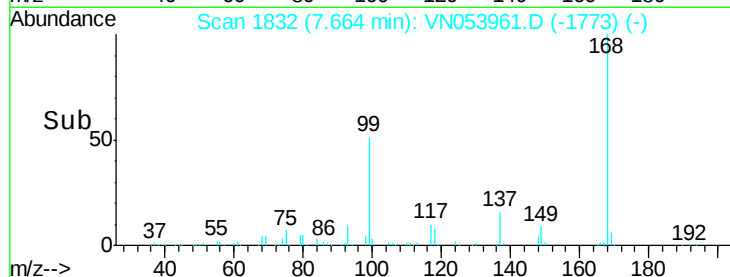
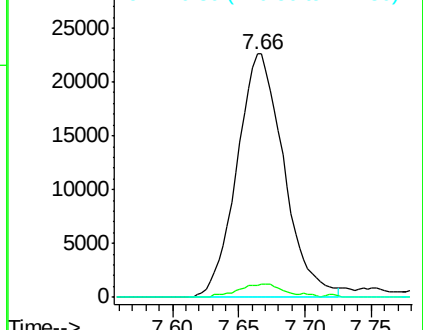
121 0.0 24.6 36.8#



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: 3.162 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN053961.D

Acq: 26 Feb 2019 17:58

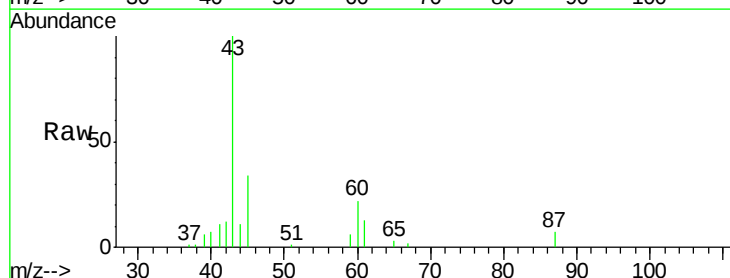
Tgt Ion: 43 Resp: 41150

Ion Ratio Lower Upper

43 100

61 14.4 17.4 26.0#

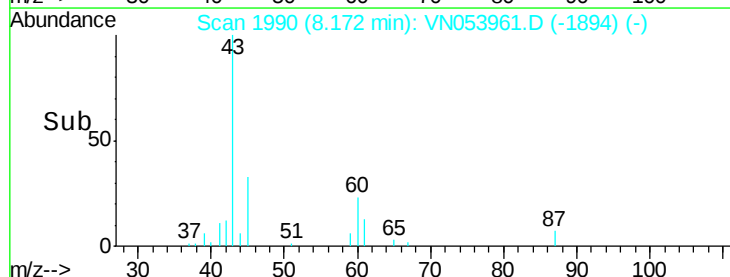
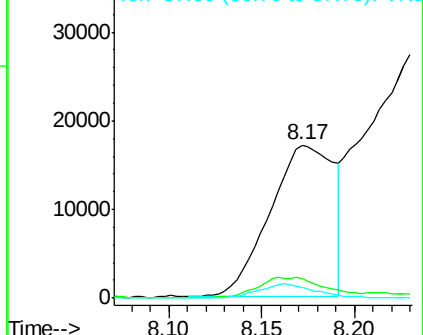
87 8.1 11.5 17.3#

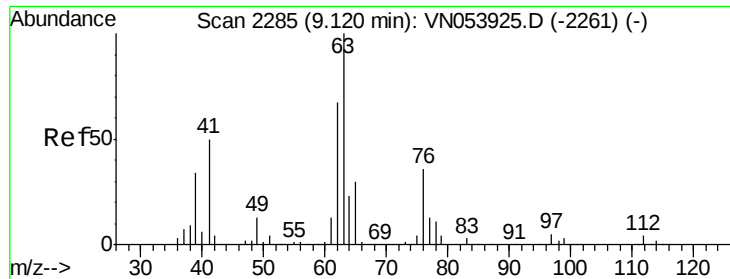


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

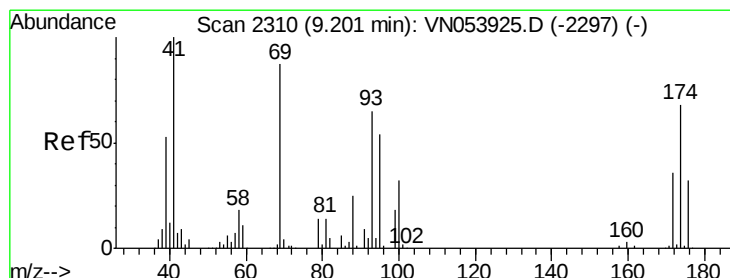
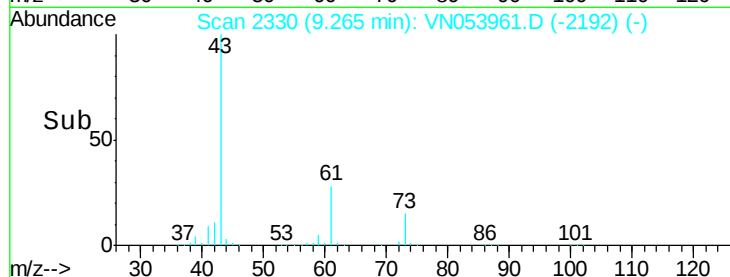
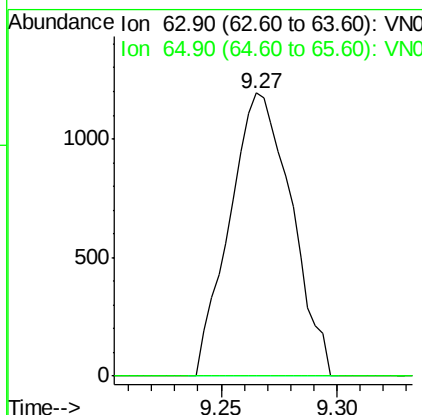
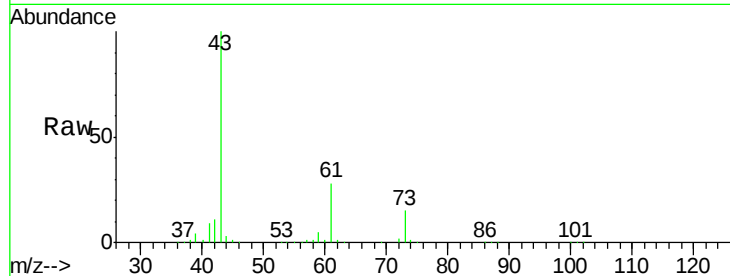




#45
 1,2-Dichloropropane
 Concen: 0.247 ug/l
 RT: 9.27 min Scan# 2330
 Delta R.T. 0.14 min
 Lab File: VN053961.D
 Acq: 26 Feb 2019 17:58

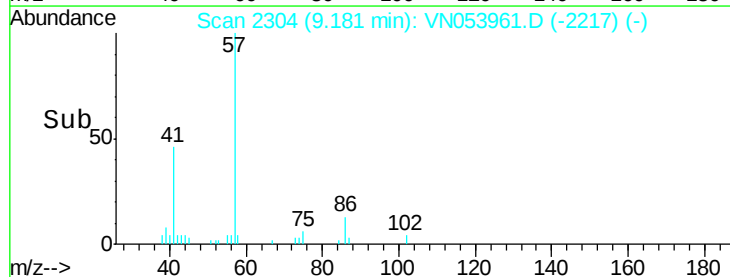
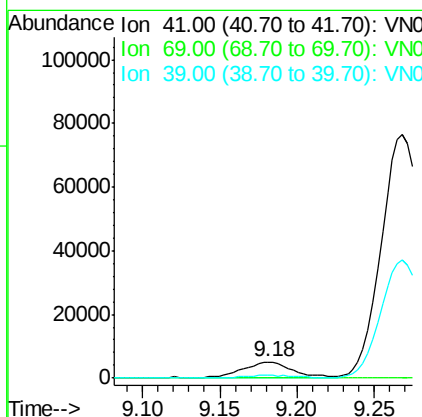
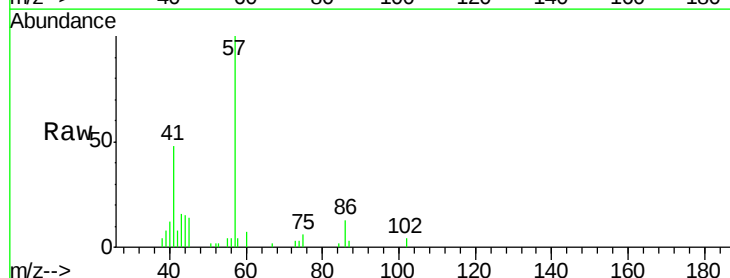
Instrument :
 MSVOA_N
 ClientSampleId :
 PB117375ZHE#04

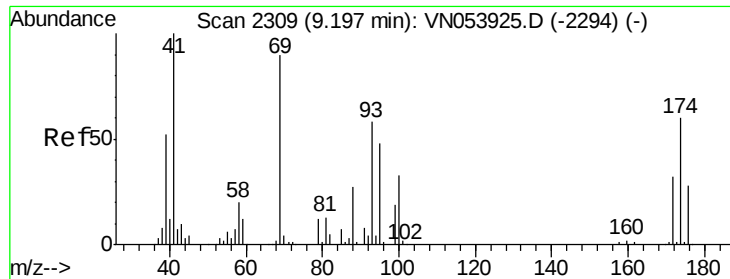
Tot Ion: 63 Resp: 2207
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.3 36.5#



#48
 Methyl methacrylate
 Concen: 1.747 ug/l
 RT: 9.18 min Scan# 2304
 Delta R.T. -0.02 min
 Lab File: VN053961.D
 Acq: 26 Feb 2019 17:58

Tgt Ion: 41 Resp: 10459
 Ion Ratio Lower Upper
 41 100
 69 0.0 74.8 112.2#
 39 0.0 39.0 58.6#





#49

1,4-Dioxane

Concen: 1.875 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.07 min

Lab File: VN053961.D

Acq: 26 Feb 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

PB117375ZHE#04

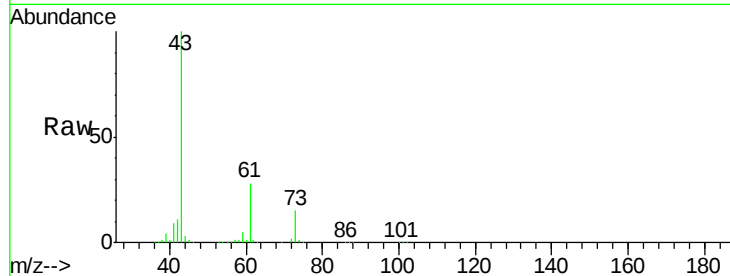
Tot Ion: 88 Resp: 152

Ion Ratio Lower Upper

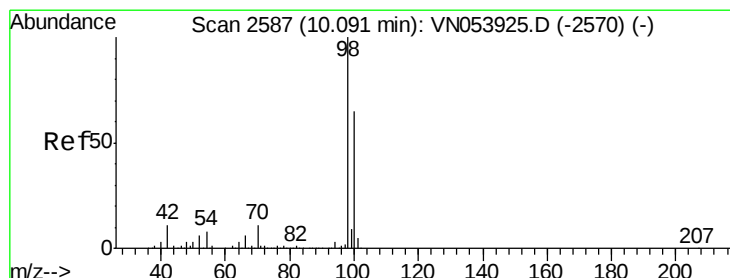
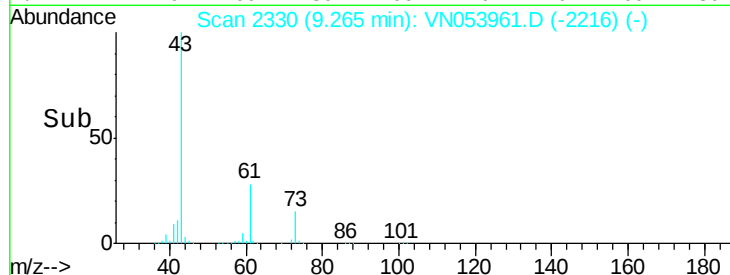
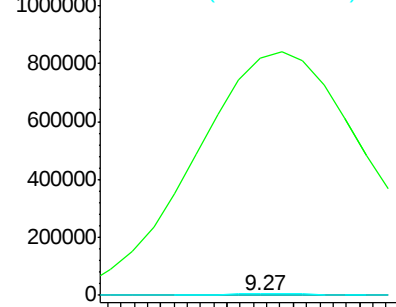
88 100

43 1115874.3 21.2 31.8#

58 5624.3 54.2 81.2#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC



#50

Toluene-d8

Concen: 52.755 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053961.D

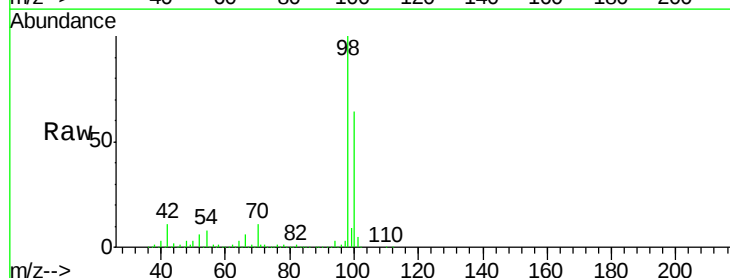
Acq: 26 Feb 2019 17:58

Tgt Ion: 98 Resp: 1474250

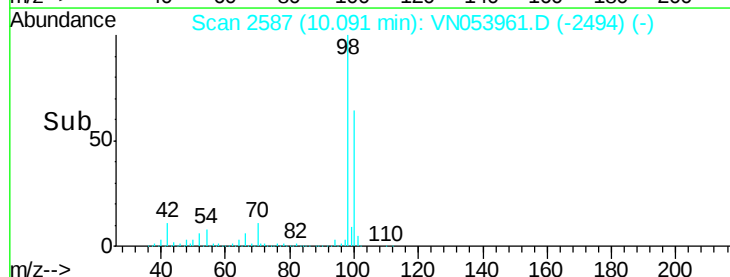
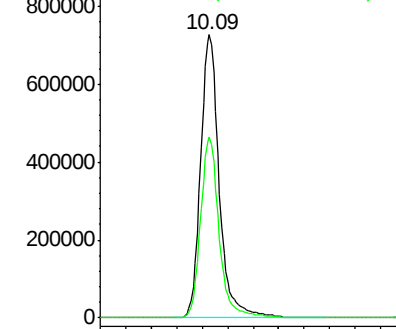
Ion Ratio Lower Upper

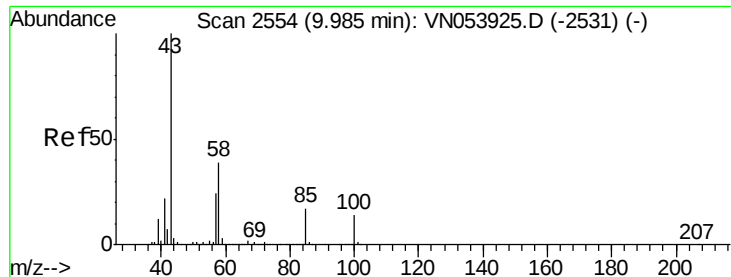
98 100

100 63.6 51.9 77.9



Abundance Ion 98.00 (97.70 to 98.70): VNC
Ion 100.00 (99.70 to 100.70): VNC





#51

4-Methyl-2-Pentanone

Concen: 1.683 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053961.D

Acq: 26 Feb 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

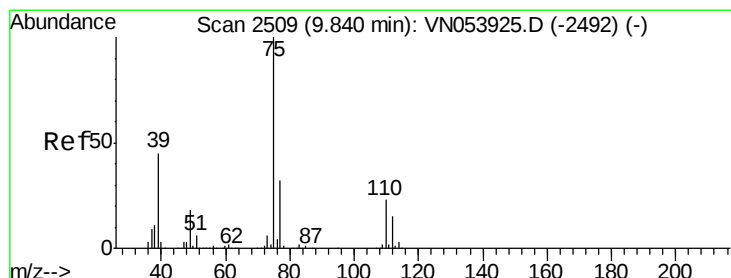
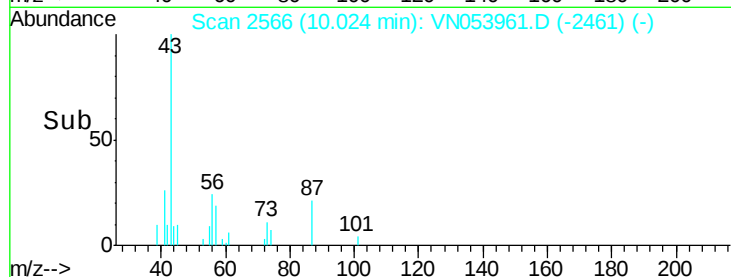
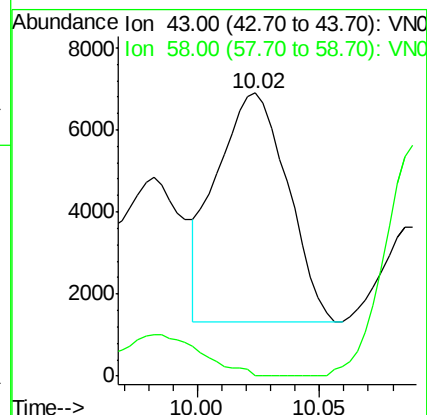
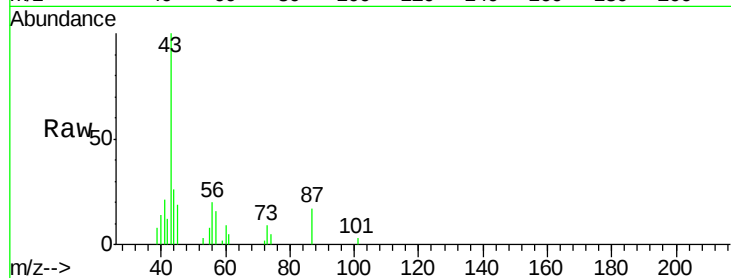
PB117375ZHE#04

Tot Ion: 43 Resp: 11254

Ion Ratio Lower Upper

43 100

58 0.0 32.7 49.1#



#54

cis-1,3-Dichloropropene

Concen: 5.865 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN053961.D

Acq: 26 Feb 2019 17:58

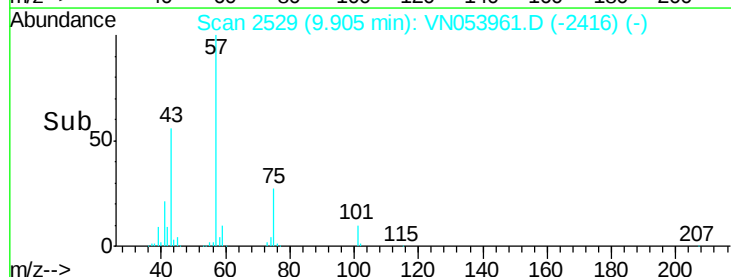
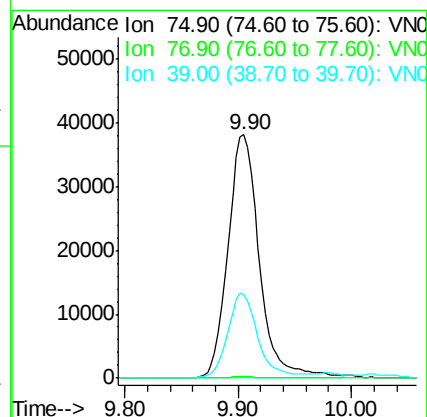
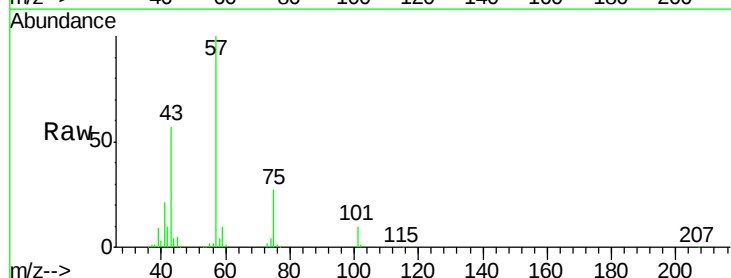
Tgt Ion: 75 Resp: 73643

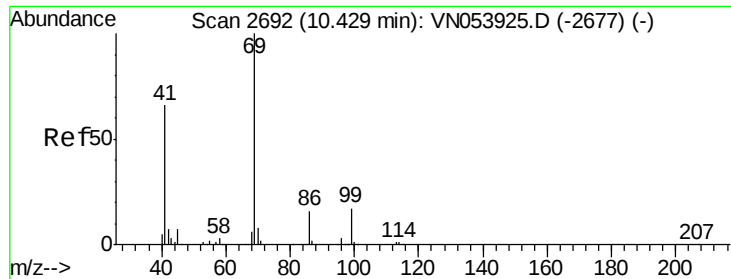
Ion Ratio Lower Upper

75 100

77 0.9 25.8 38.6#

39 34.5 31.4 47.0





#56

Ethyl methacrylate

Concen: 2.132 ug/l

RT: 10.55 min Scan# 2729

Delta R.T. 0.12 min

Lab File: VN053961.D

Acq: 26 Feb 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

PB117375ZHE#04

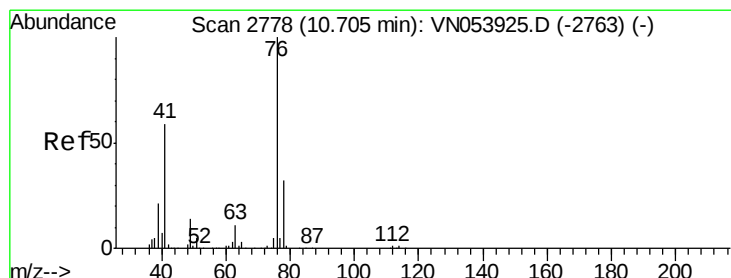
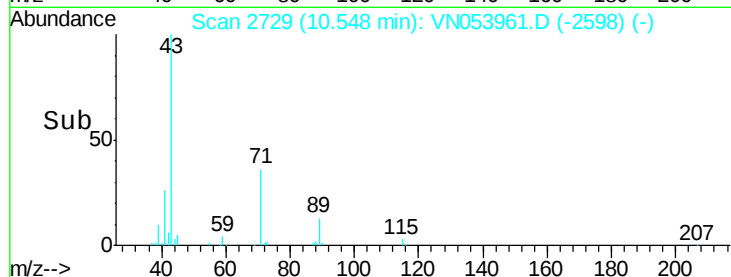
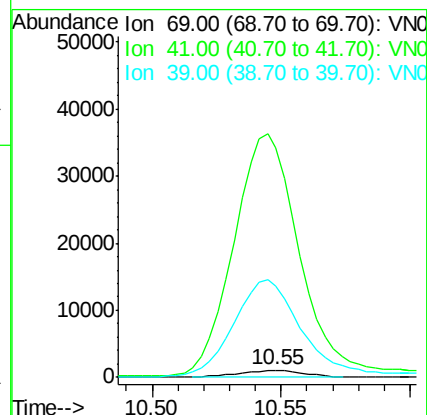
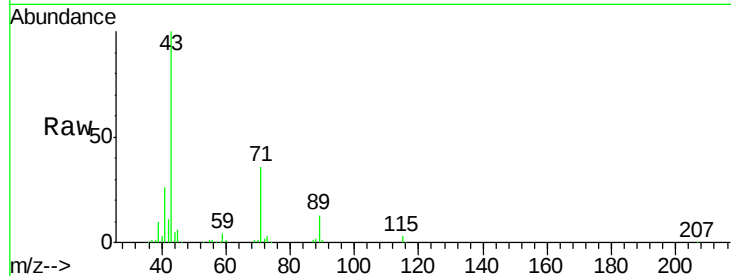
Tot Ion: 69 Resp: 1766

Ion Ratio Lower Upper

69 100

41 3682.4 47.5 71.3#

39 1526.3 23.4 35.0#



#57

1,3-Dichloropropane

Concen: 1.057 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053961.D

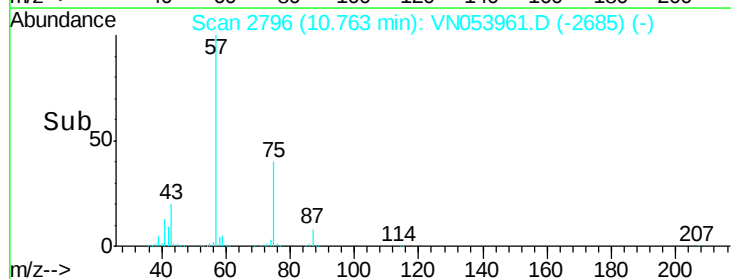
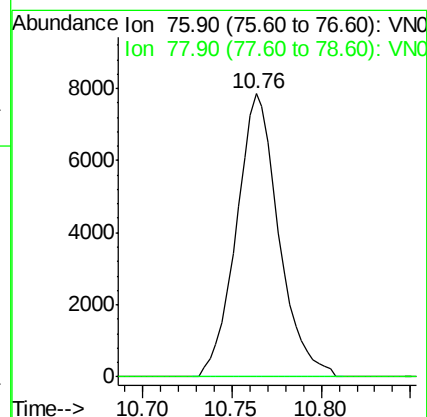
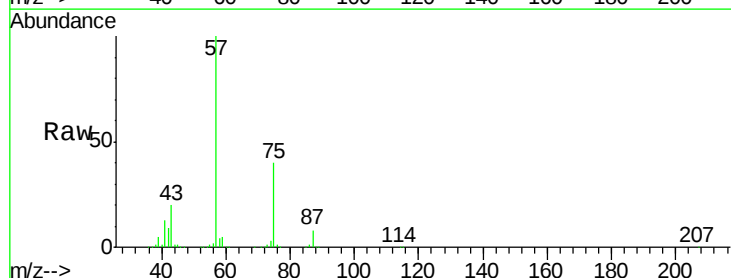
Acq: 26 Feb 2019 17:58

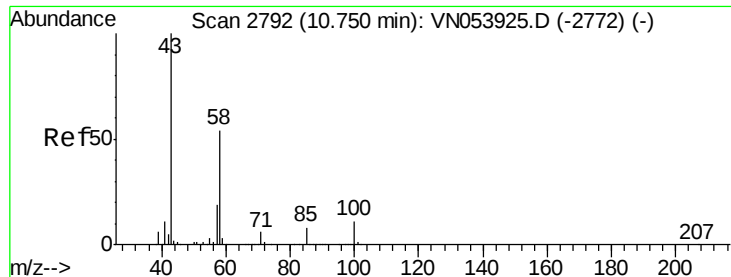
Tgt Ion: 76 Resp: 13025

Ion Ratio Lower Upper

76 100

78 0.0 25.2 37.8#

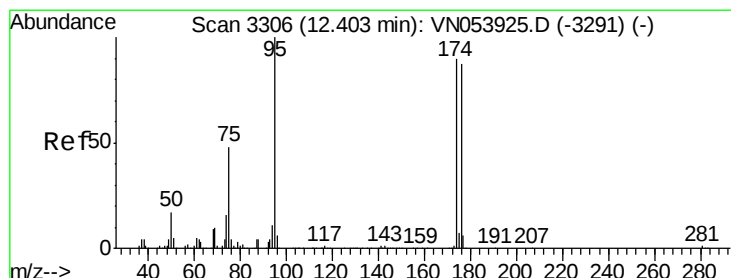
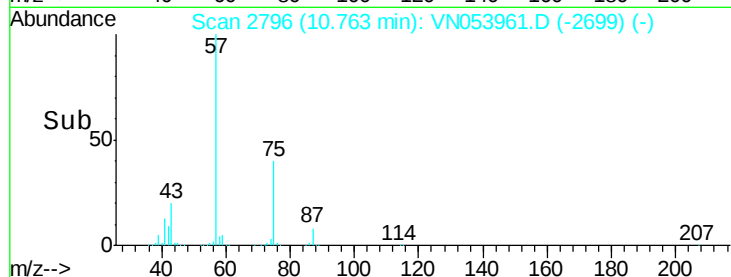
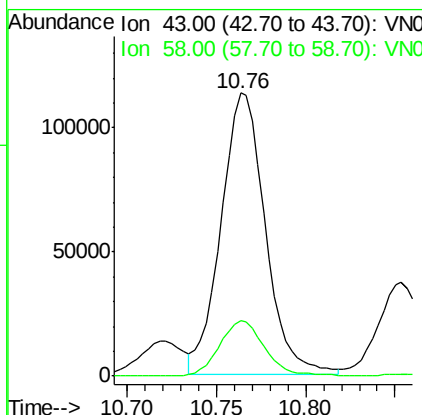
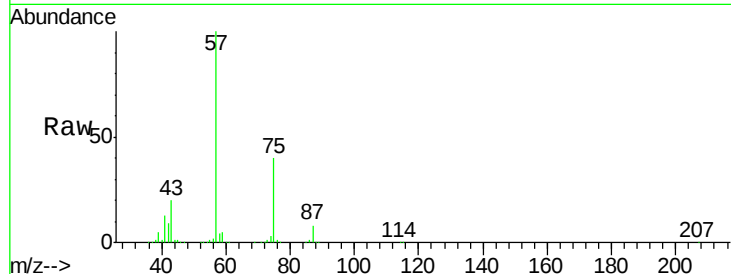




#59
2-Hexanone
Concen: 45.080 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053961.D
Acq: 26 Feb 2019 17:58

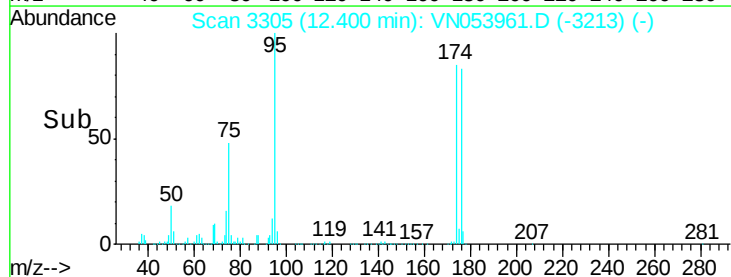
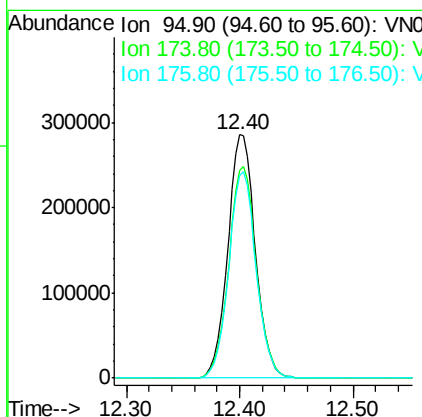
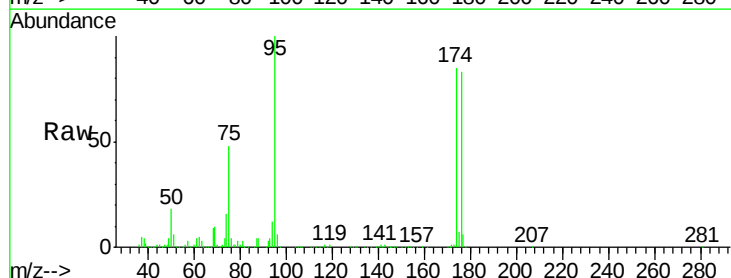
Instrument :
MSVOA_N
ClientSampleId :
PB117375ZHE#04

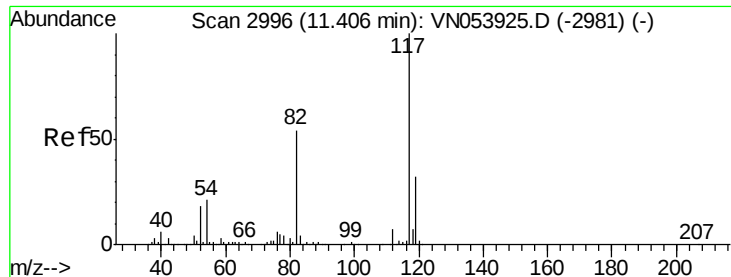
Tot Ion: 43 Resp: 196092
Ion Ratio Lower Upper
43 100
58 20.2 29.1 87.4#



#62
4-Bromofluorobenzene
Concen: 51.690 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053961.D
Acq: 26 Feb 2019 17:58

Tgt Ion: 95 Resp: 481263
Ion Ratio Lower Upper
95 100
174 87.3 0.0 188.8
176 84.4 0.0 182.6

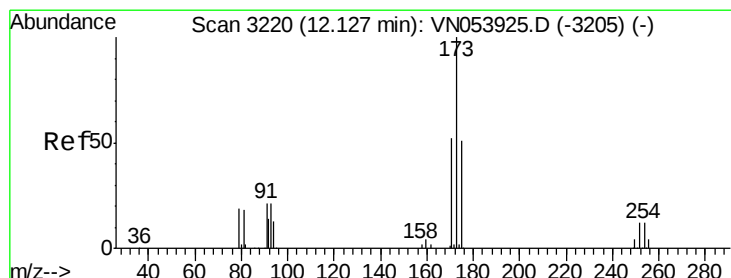
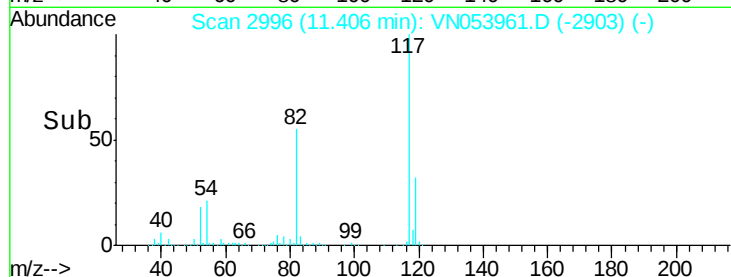
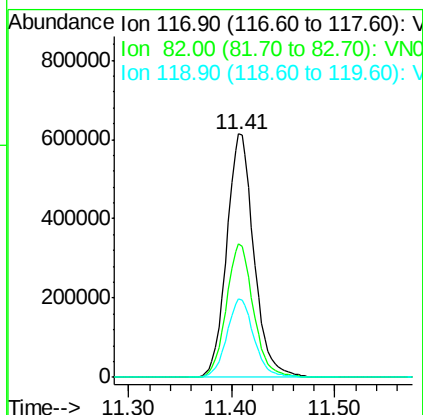
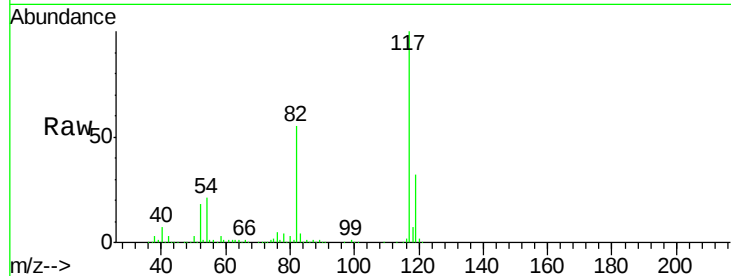




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053961.D
Acq: 26 Feb 2019 17:58

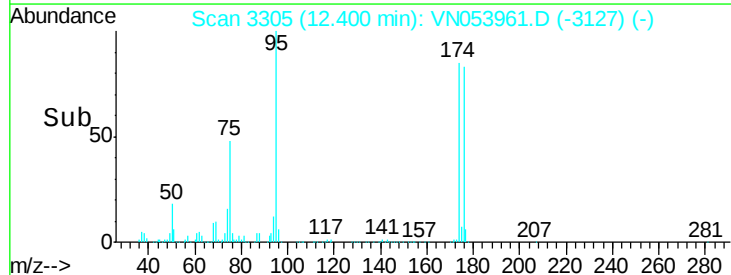
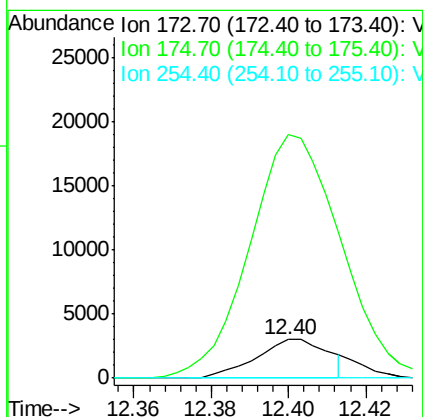
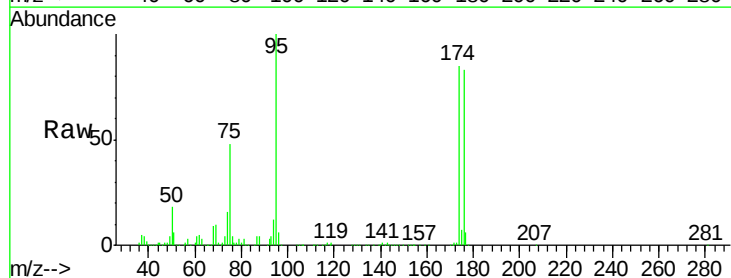
Instrument :
MSVOA_N
ClientSampleId :
PB117375ZHE#04

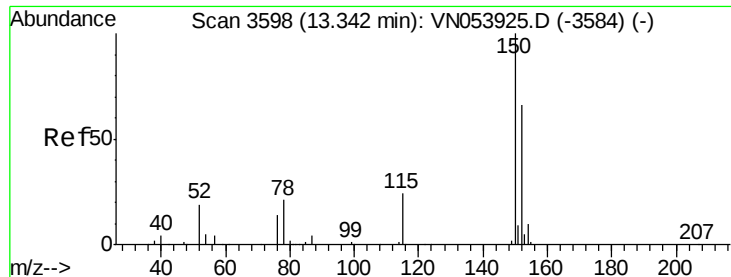
Tot Ion:117 Resp: 1128477
Ion Ratio Lower Upper
117 100
82 55.0 41.4 62.2
119 32.2 25.3 37.9



#71
Bromoform
Concen: 0.654 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. 0.27 min
Lab File: VN053961.D
Acq: 26 Feb 2019 17:58

Tgt Ion:173 Resp: 3903
Ion Ratio Lower Upper
173 100
175 693.2 24.3 72.8#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN053961.D

Acq: 26 Feb 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

PB117375ZHE#04

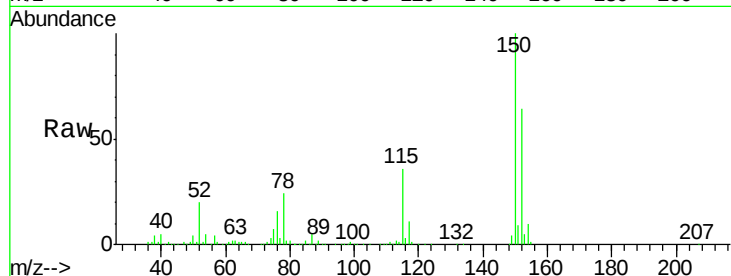
Tot Ion:152 Resp: 405351

Ion Ratio Lower Upper

152 100

115 56.7 27.2 81.6

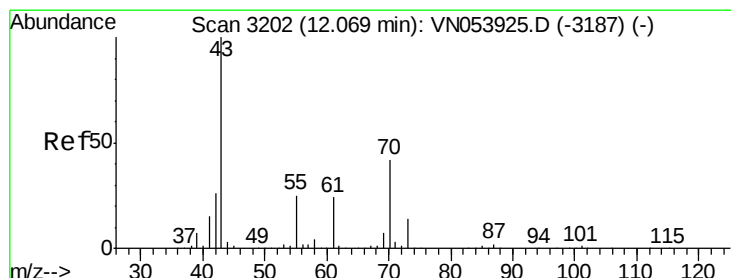
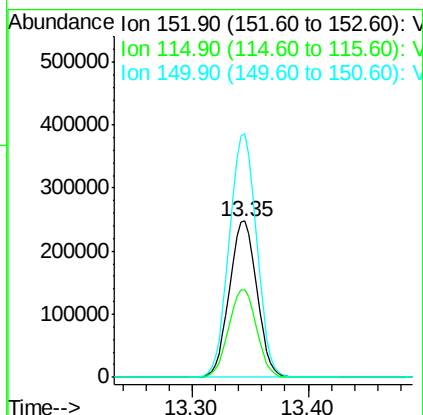
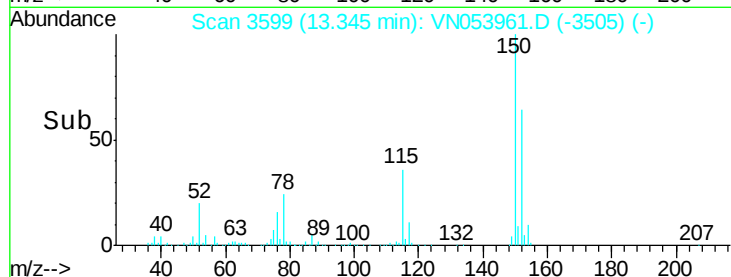
150 155.4 0.0 348.2



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: 2.329 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053961.D

Acq: 26 Feb 2019 17:58

Tgt Ion: 43 Resp: 19260

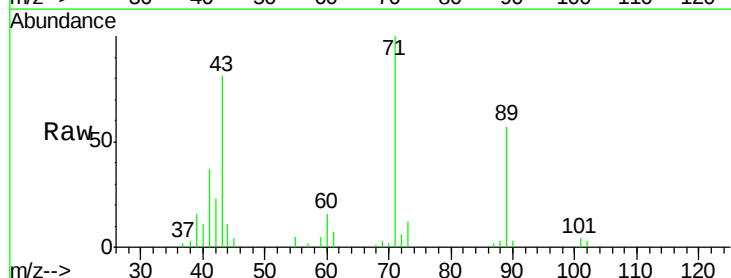
Ion Ratio Lower Upper

43 100

70 1.9 37.4 56.2#

55 6.7 21.4 32.0#

61 9.4 20.9 31.3#

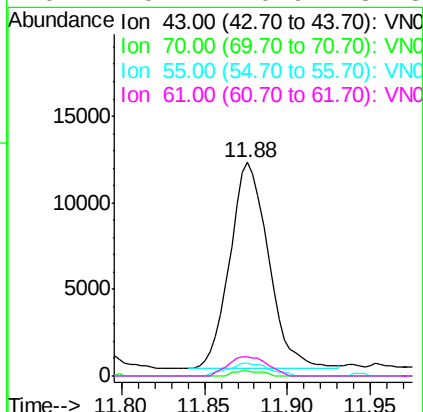
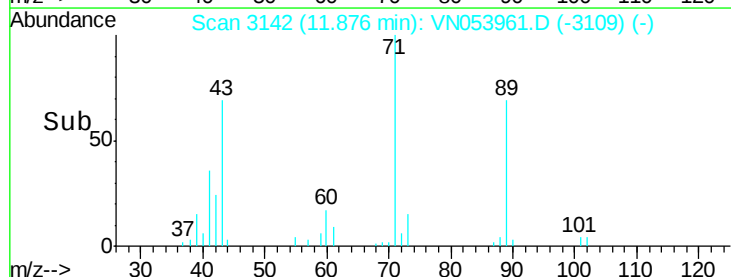


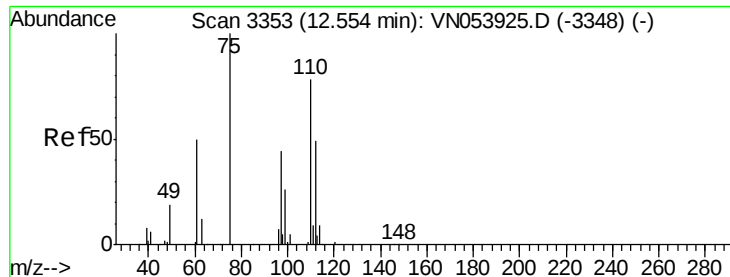
Abundance Ion 43.00 (42.70 to 43.70): V

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: 35.682 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053961.D

Acq: 26 Feb 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

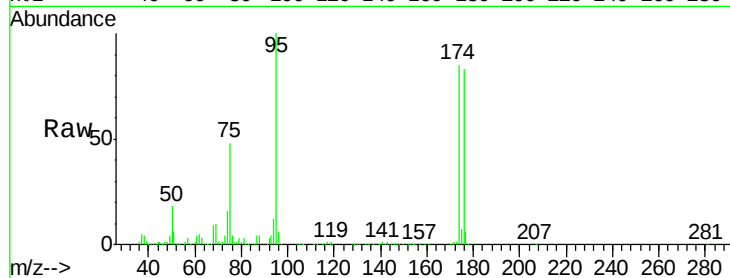
PB117375ZHE#04

Tot Ion: 75 Resp: 232026

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN053925.D (-3348) (-)

Ion 77.00 (76.70 to 77.70): VN053925.D (-3348) (-)

12.40

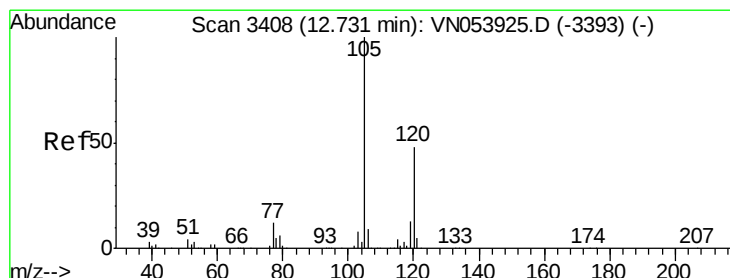
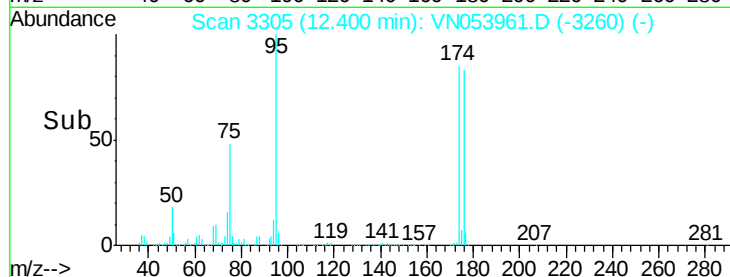
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#80

1,3,5-Trimethylbenzene

Concen: 0.228 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN053961.D

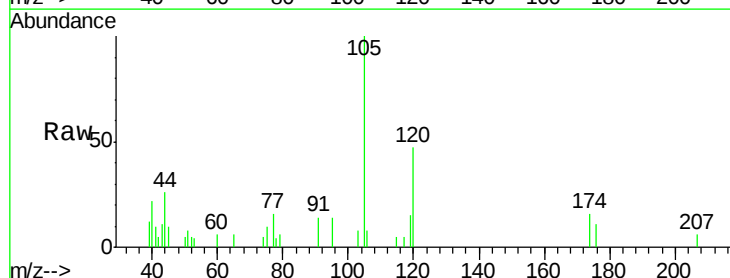
Acq: 26 Feb 2019 17:58

Tgt Ion: 105 Resp: 5880

Ion Ratio Lower Upper

105 100

120 45.0 25.1 75.2



Abundance Ion 105.00 (104.70 to 105.70): VN053925.D (-3393) (-)

Ion 120.00 (119.70 to 120.70): VN053925.D (-3393) (-)

12.73

4000

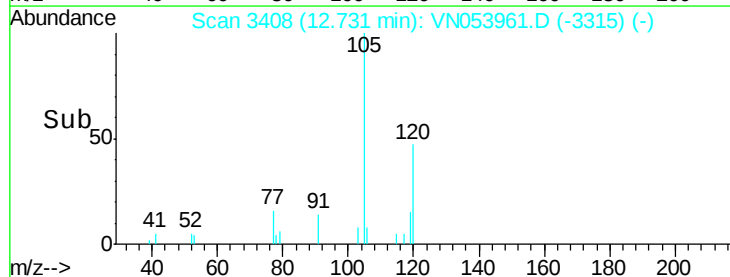
3000

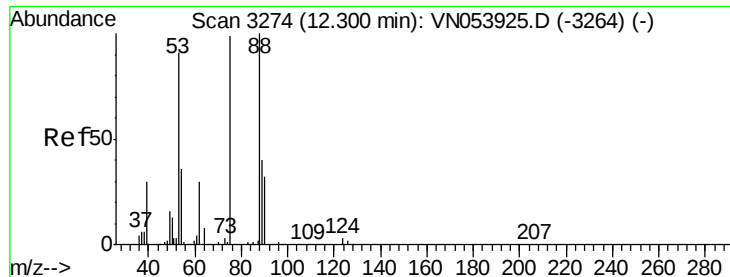
2000

1000

0

Time--> 12.70 12.75





#81

trans-1,4-Dichloro-2-butene

Concen: 112.778 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053961.D

Acq: 26 Feb 2019 17:58

Instrument :

MSVOA_N

ClientSampleId :

PB117375ZHE#04

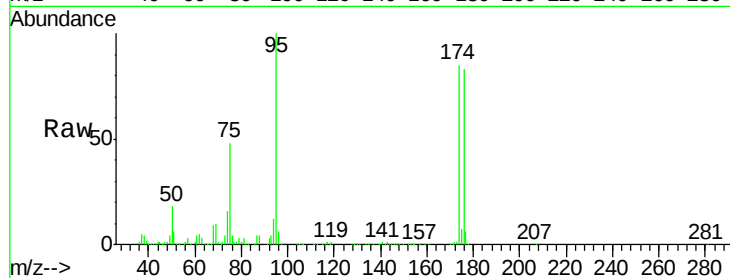
Tot Ion: 75 Resp: 232026

Ion Ratio Lower Upper

75 100

53 0.1 68.6 102.8#

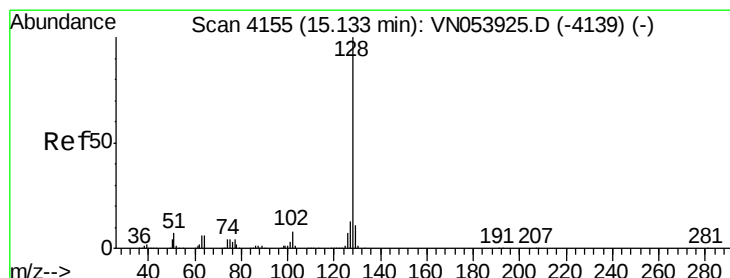
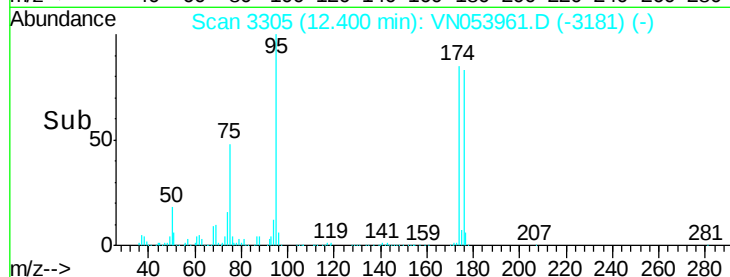
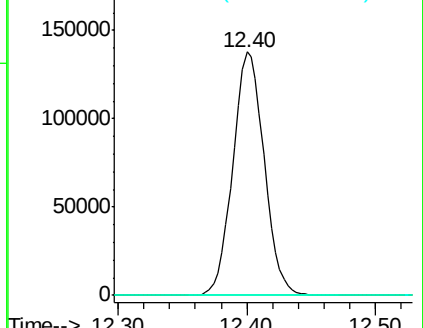
89 0.0 35.3 52.9#



Abundance Ion 74.90 (74.60 to 75.60): VN053961.D (-3181) (-)

Ion 53.00 (52.70 to 53.70): VN053961.D (-3181) (-)

Ion 88.90 (88.60 to 89.60): VN053961.D (-3181) (-)



#95

Naphthalene

Concen: 3.222 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN053961.D

Acq: 26 Feb 2019 17:58

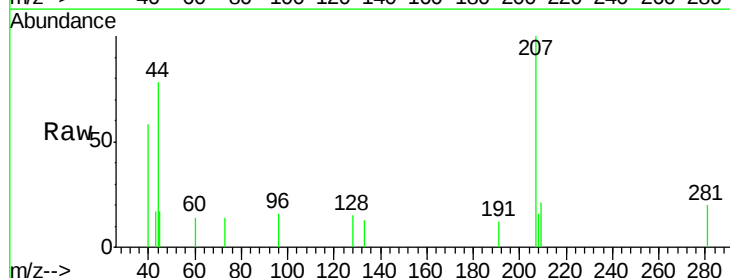
Tgt Ion: 128 Resp: 167

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.6 12.8#



Abundance Ion 128.00 (127.70 to 128.70): VN053961.D (-4061) (-)

Ion 127.00 (126.70 to 127.70): VN053961.D (-4061) (-)

Ion 129.00 (128.70 to 129.70): VN053961.D (-4061) (-)

