

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121118\
 Data File : VN052798.D
 Acq On : 11 Dec 2018 13:28
 Operator : MD\SY
 Sample : PB115504ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115504ZHE#03

Quant Time: Dec 12 00:27:32 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

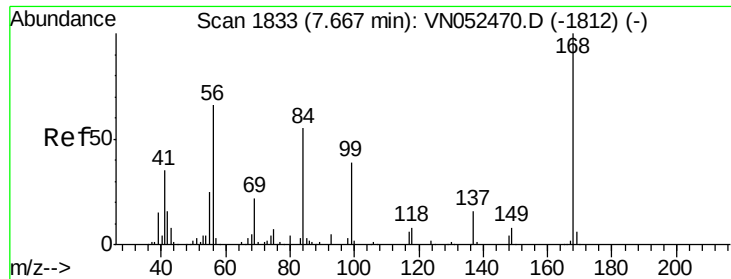
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1168378	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1827587	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1647233	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	699280	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	616854	48.49	ug/l	0.00
Spiked Amount			Recovery	=	96.98%	
35) Dibromofluoromethane	7.59	113	509780	45.25	ug/l	0.00
Spiked Amount			Recovery	=	90.50%	
50) Toluene-d8	10.09	98	2243123	51.15	ug/l	0.00
Spiked Amount			Recovery	=	102.30%	
62) 4-Bromofluorobenzene	12.40	95	749891	50.88	ug/l	0.00
Spiked Amount			Recovery	=	101.76%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	11294	3.366	ug/l	97
18) Methyl Acetate	4.33	43	2671	0.278	ug/l #	89
20) Methylene Chloride	4.56	84	19377	1.476	ug/l	94
29) Tetrahydrofuran	7.21	42	1344	0.438	ug/l #	50
31) Cyclohexane	7.67	56	20111	0.557	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	80554	4.668	ug/l #	49
38) Carbon Tetrachloride	7.67	117	102472	6.559	ug/l #	16
43) Isopropyl Acetate	8.17	43	67341	3.778	ug/l #	75
45) 1,2-Dichloropropane	9.27	63	3317	0.243	ug/l #	43
48) Methyl methacrylate	9.18	41	12873	1.385	ug/l #	13
49) 1,4-Dioxane	9.27	88	316	3.276	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	14913	1.491	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	117158	6.175	ug/l #	62
56) Ethyl methacrylate	10.54	69	1502	2.788	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	24314	1.281	ug/l #	43
59) 2-Hexanone	10.76	43	335686	50.012	ug/l #	51
71) Bromoform	12.40	173	4531	0.579	ug/l #	1
74) N-amyl acetate	11.88	43	38855	2.803	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	356352	33.047	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	356352	110.360	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	492	2.867	ug/l #	75
95) Naphthalene	15.14	128	1152	3.469	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.32	180	470	2.766	ug/l #	68

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN121118\
Data File : VN052798.D
Acq On : 11 Dec 2018 13:28
Operator : MD\SY
Sample : PB115504ZHE#03
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 9 Sample Multiplier: 28



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN052798.D

Acq: 11 Dec 2018 13:28

Instrument :

MSVOA_N

ClientSampleId :

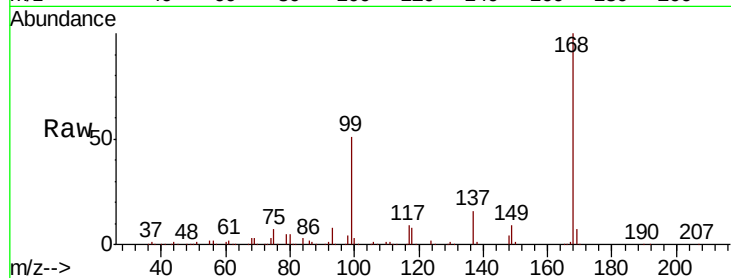
PB115504ZHE#03

Tot Ion:168 Resp: 1168378

Ion Ratio Lower Upper

168 100

99 51.1 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): VN052798.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN052798.D (-1740) (-)

7.67

500000

400000

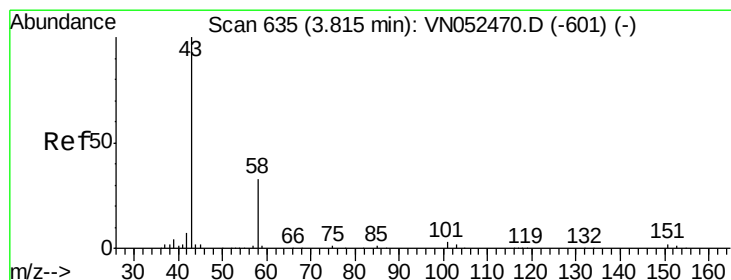
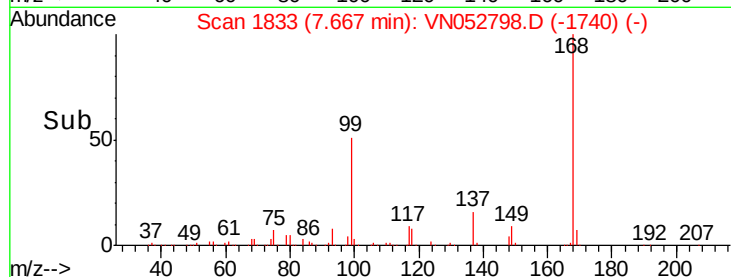
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 3.366 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.01 min

Lab File: VN052798.D

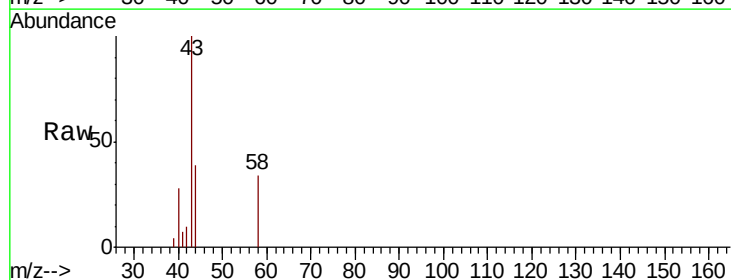
Acq: 11 Dec 2018 13:28

Tgt Ion: 43 Resp: 11294

Ion Ratio Lower Upper

43 100

58 34.3 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN052798.D (-542) (-)

Ion 58.00 (57.70 to 58.70): VN052798.D (-542) (-)

3.82

4000

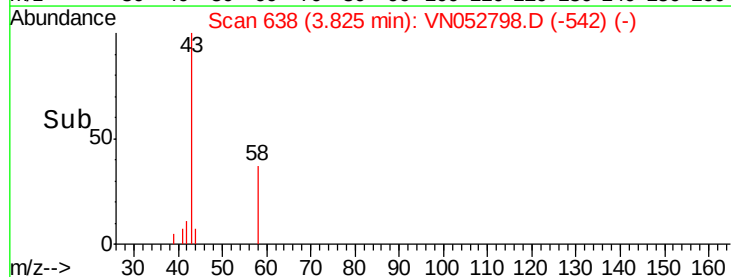
3000

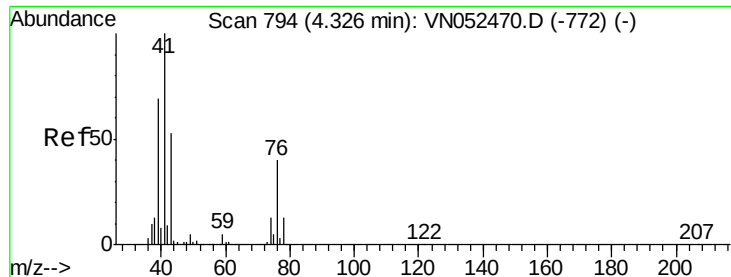
2000

1000

0

Time-->

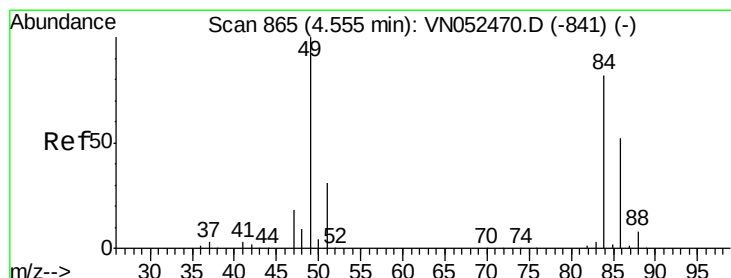
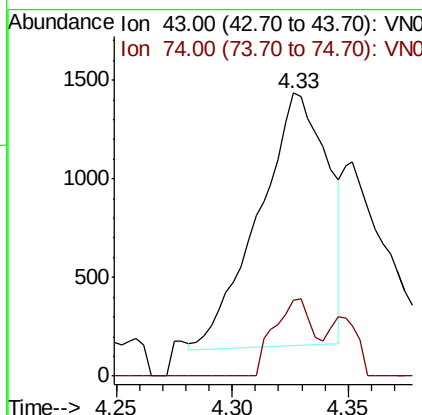
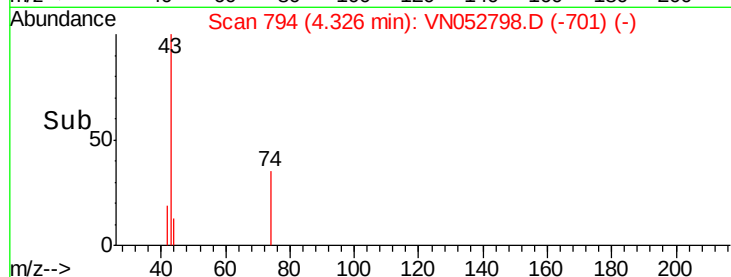
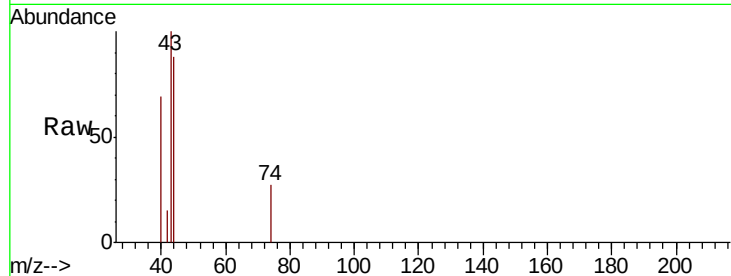




#18
Methyl Acetate
Concen: 0.278 ug/l
RT: 4.33 min Scan# 794
Delta R.T. -0.00 min
Lab File: VN052798.D
Acq: 11 Dec 2018 13:28

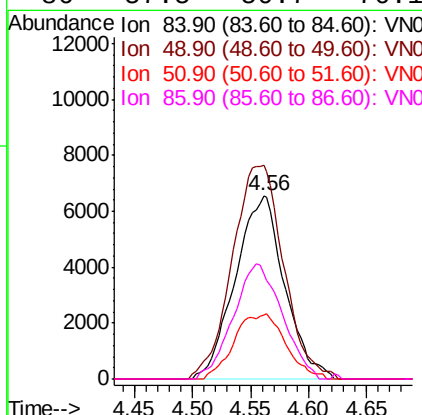
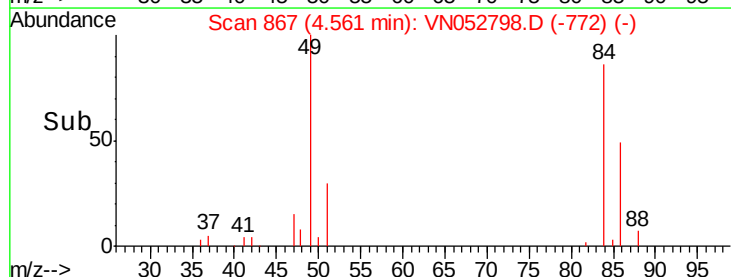
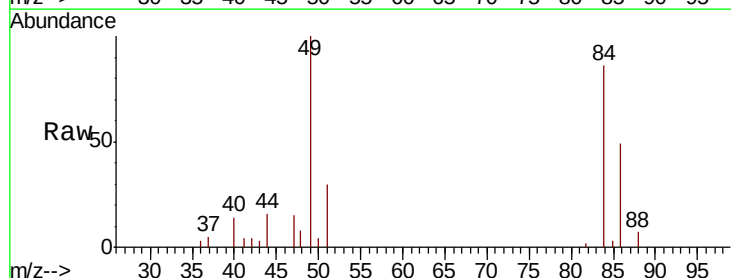
Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#03

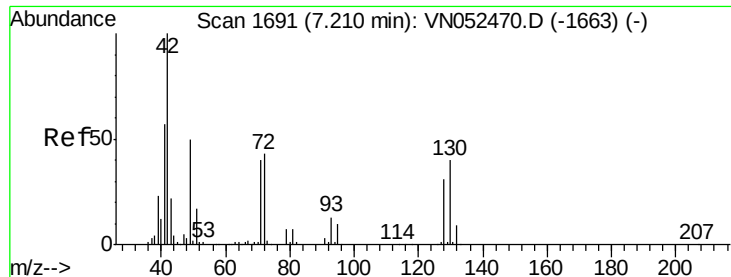
Tot Ion: 43 Resp: 2671
Ion Ratio Lower Upper
43 100
74 17.8 18.6 27.8#



#20
Methylene Chloride
Concen: 1.476 ug/l
RT: 4.56 min Scan# 867
Delta R.T. 0.01 min
Lab File: VN052798.D
Acq: 11 Dec 2018 13:28

Tgt Ion: 84 Resp: 19377
Ion Ratio Lower Upper
84 100
49 116.3 98.0 147.0
51 35.2 30.1 45.1
86 57.5 50.7 76.1





#29

Tetrahydrofuran

Concen: 0.438 ug/l

RT: 7.21 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VN052798.D

Acq: 11 Dec 2018 13:28

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#03

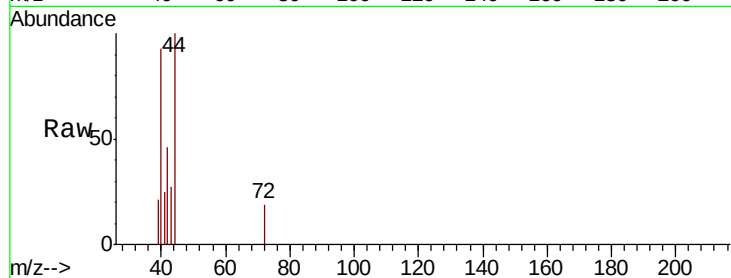
Tot Ion: 42 Resp: 1344

Ion Ratio Lower Upper

42 100

72 19.0 33.3 49.9#

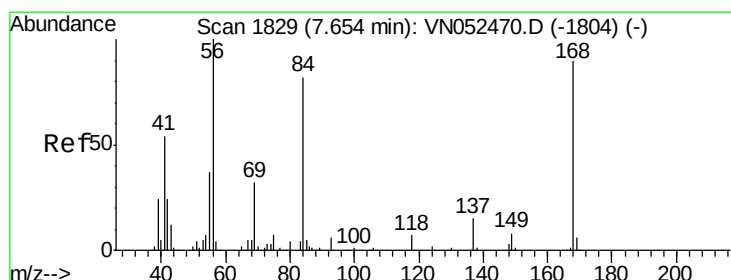
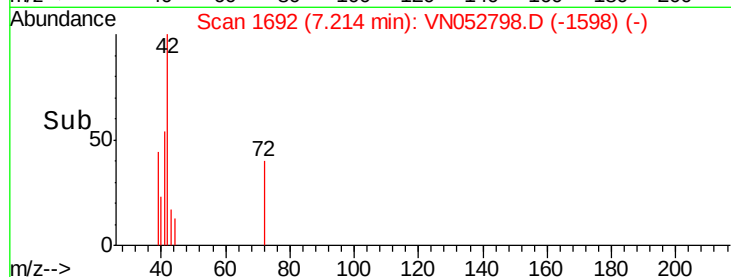
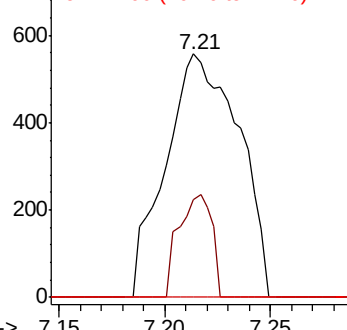
71 0.0 32.0 48.0#



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: 0.557 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.01 min

Lab File: VN052798.D

Acq: 11 Dec 2018 13:28

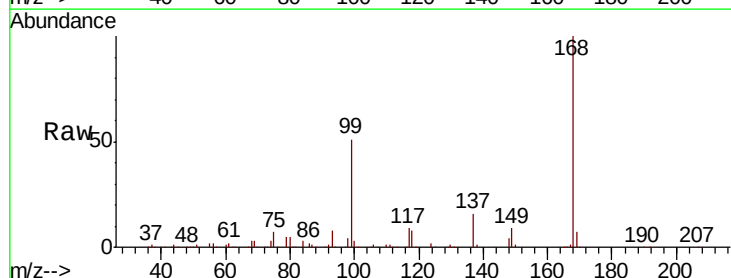
Tgt Ion: 56 Resp: 20111

Ion Ratio Lower Upper

56 100

69 195.9 25.8 38.6#

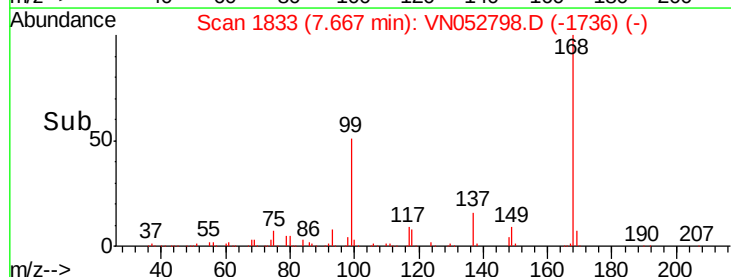
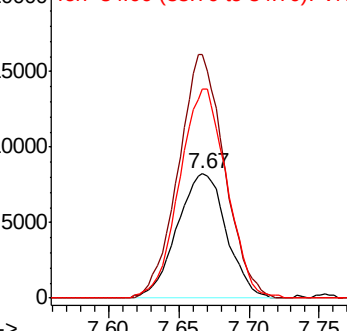
84 168.1 65.3 97.9#

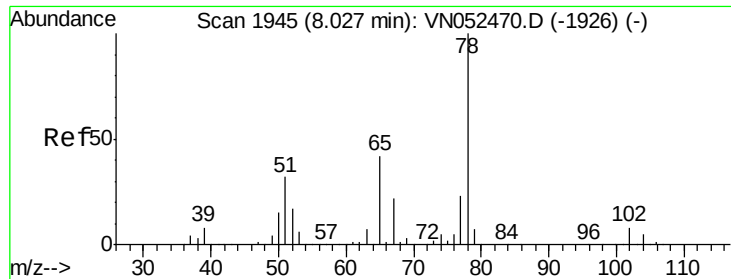


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0

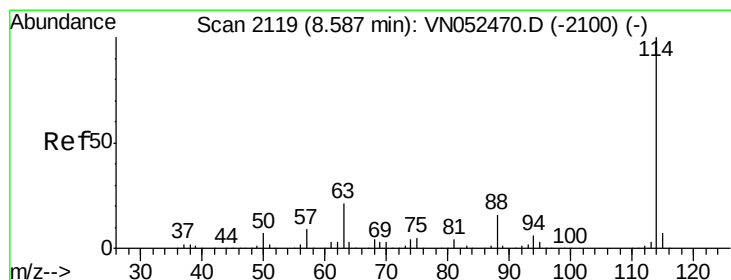
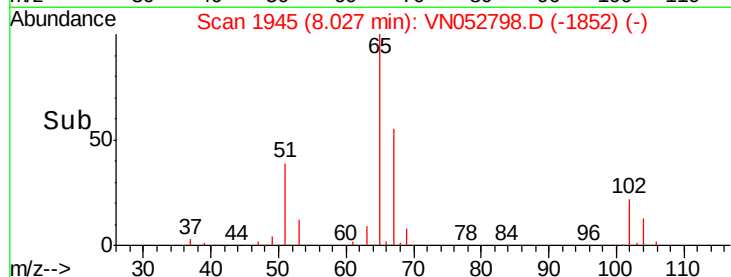
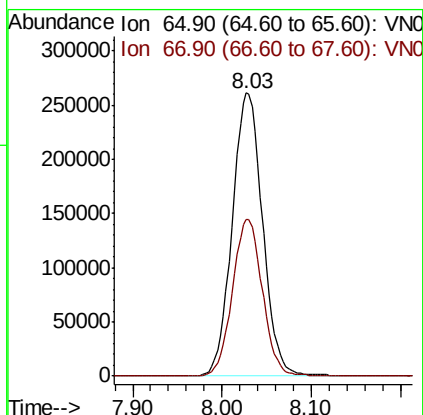
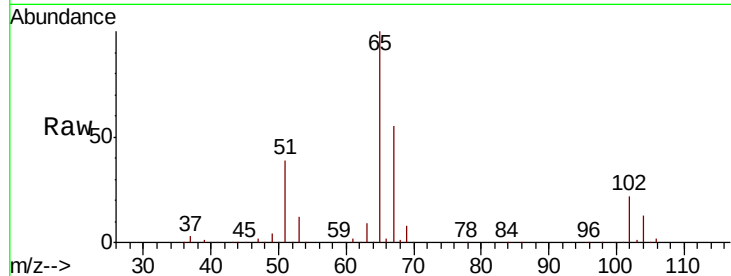




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052798.D
 Acq: 11 Dec 2018 13:28

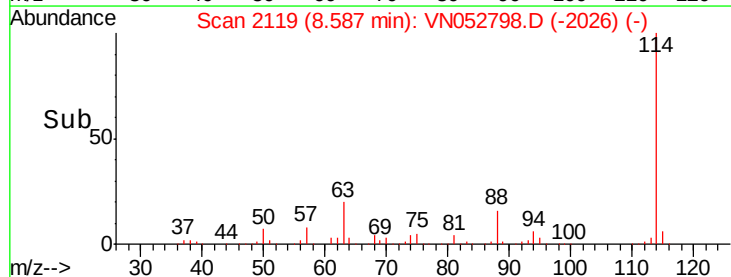
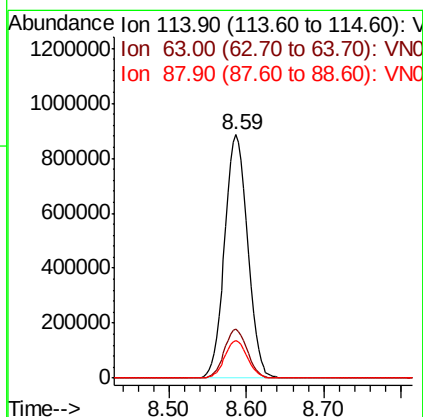
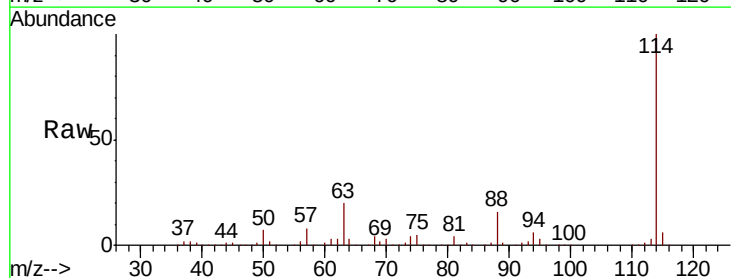
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115504ZHE#03

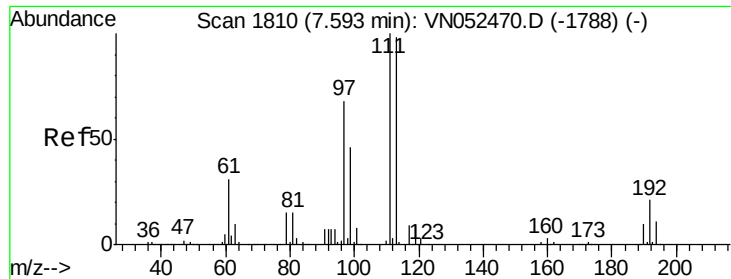
Tot Ion: 65 Resp: 616854
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052798.D
 Acq: 11 Dec 2018 13:28

Tgt Ion: 114 Resp: 1827587
 Ion Ratio Lower Upper
 114 100
 63 19.9 0.0 41.8
 88 15.6 0.0 31.6

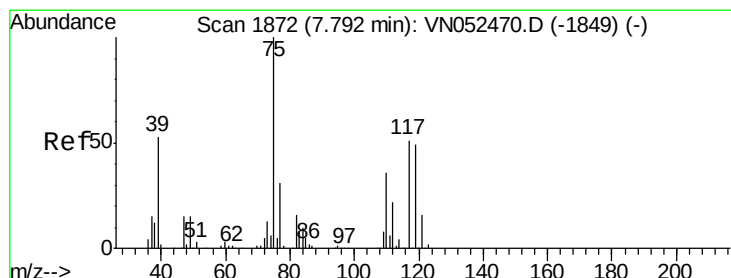
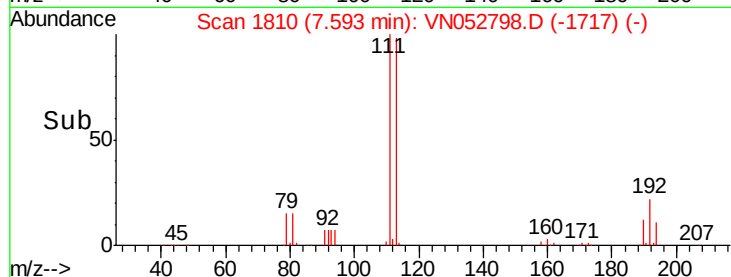
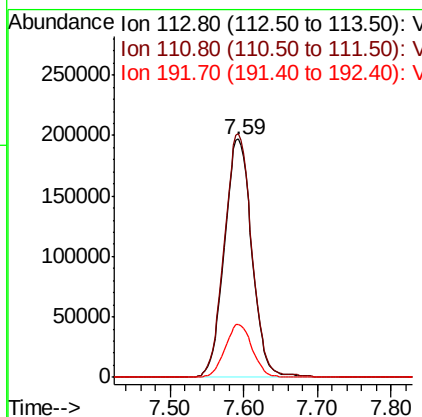
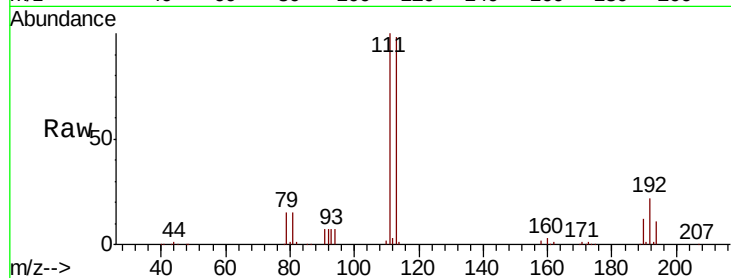




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052798.D
 Acq: 11 Dec 2018 13:28

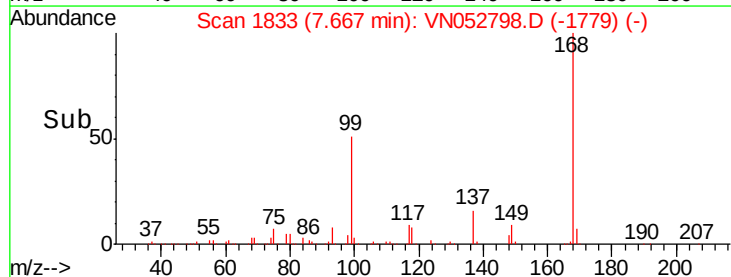
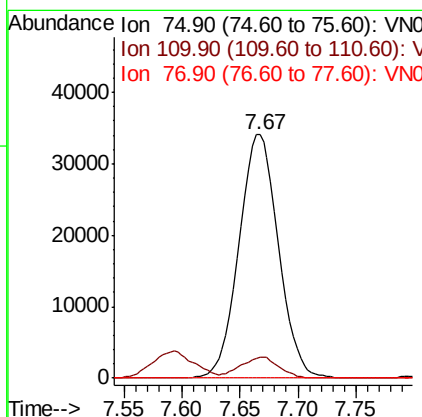
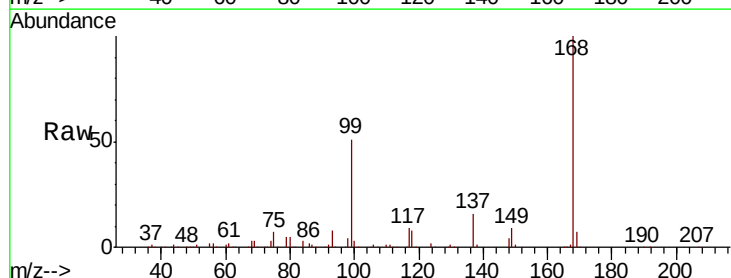
Instrument :
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 ClientSampleId :
 PB115504ZHE#03

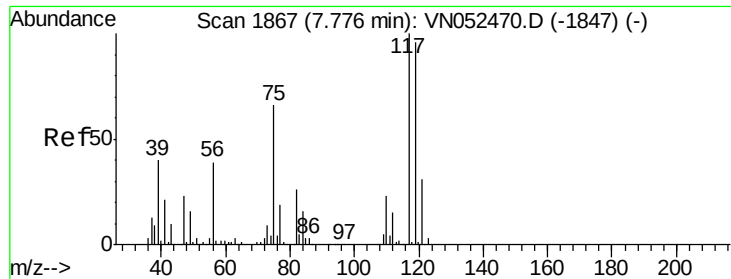
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.3	82.0	123.0
192	22.1	17.0	25.6



#36
 1,1-Dichloropropene
 Concen: 4.668 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052798.D
 Acq: 11 Dec 2018 13:28

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.5	17.5	52.6#
77	0.0	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.559 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052798.D

Acq: 11 Dec 2018 13:28

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#03

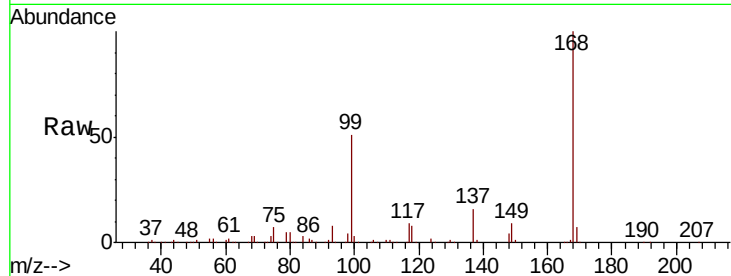
Tot Ion:117 Resp: 102472

Ion Ratio Lower Upper

117 100

119 4.9 76.8 115.2#

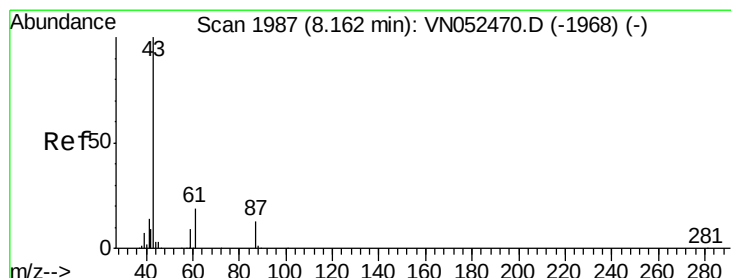
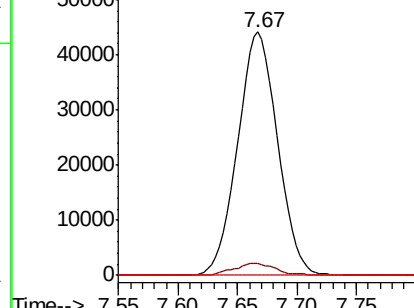
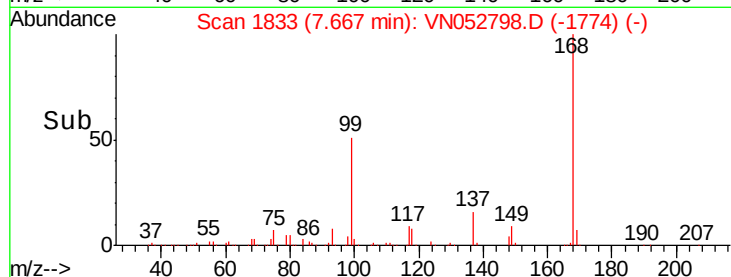
121 0.0 24.9 37.3#



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: 3.778 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052798.D

Acq: 11 Dec 2018 13:28

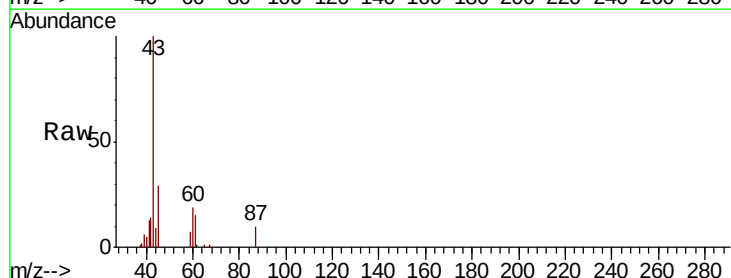
Tgt Ion: 43 Resp: 67341

Ion Ratio Lower Upper

43 100

61 13.4 24.1 36.1#

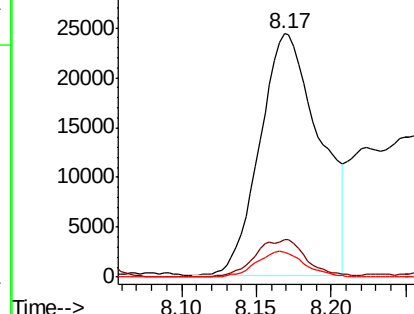
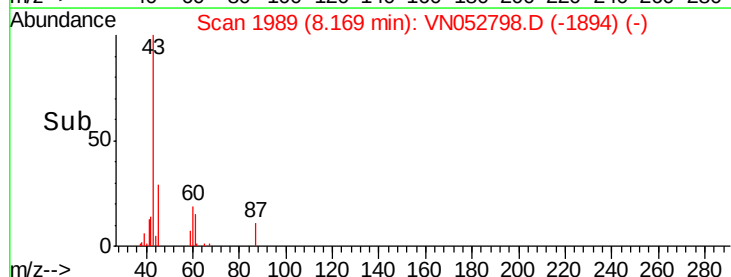
87 8.5 10.6 15.8#

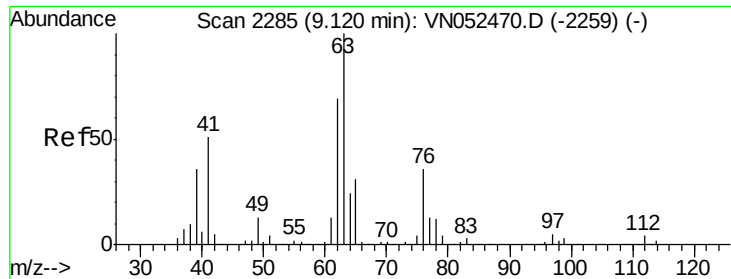


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

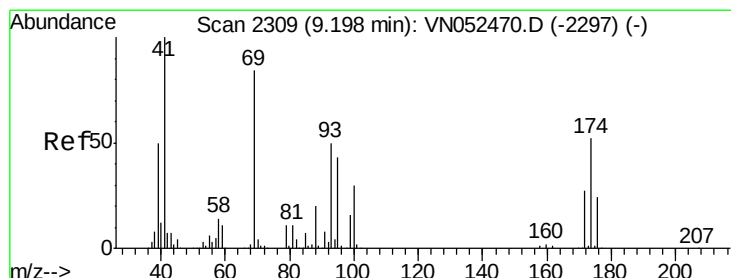
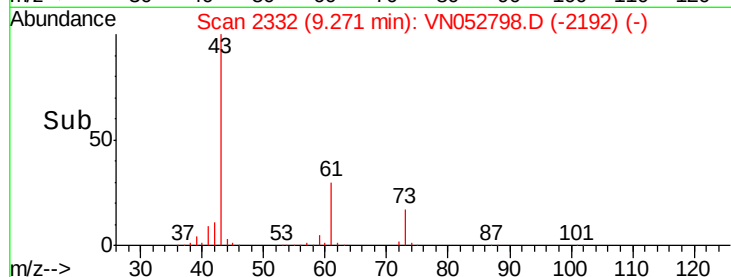
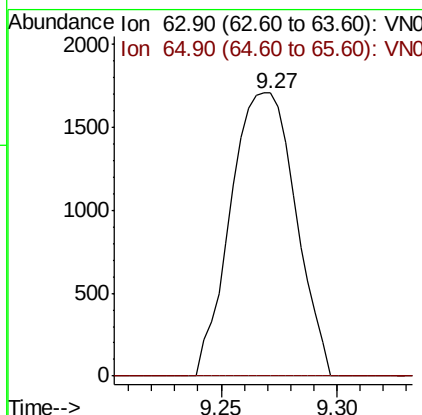
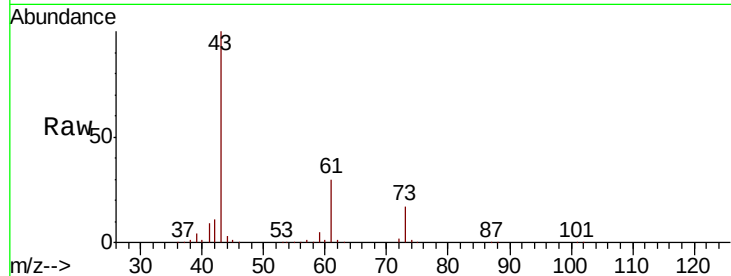




#45
 1,2-Dichloropropane
 Concen: 0.243 ug/l
 RT: 9.27 min Scan# 2332
 Delta R.T. 0.15 min
 Lab File: VN052798.D
 Acq: 11 Dec 2018 13:28

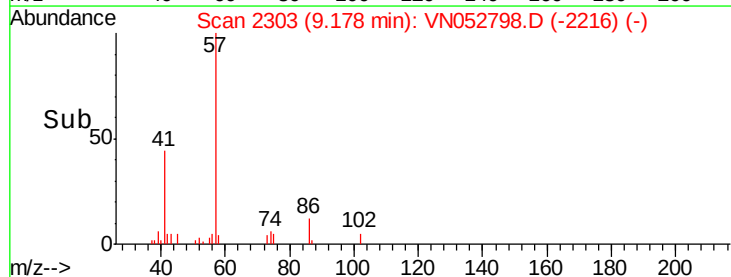
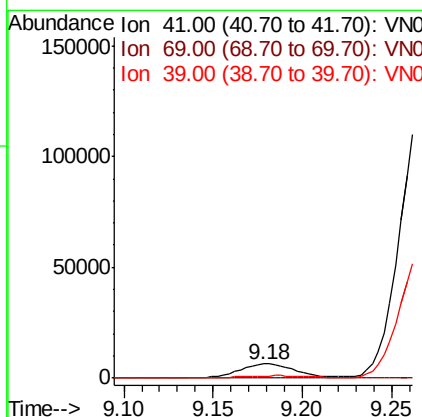
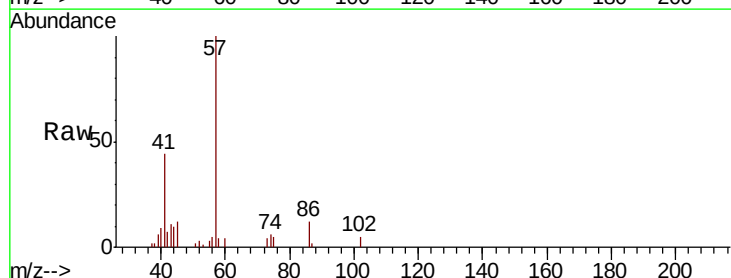
Instrument :
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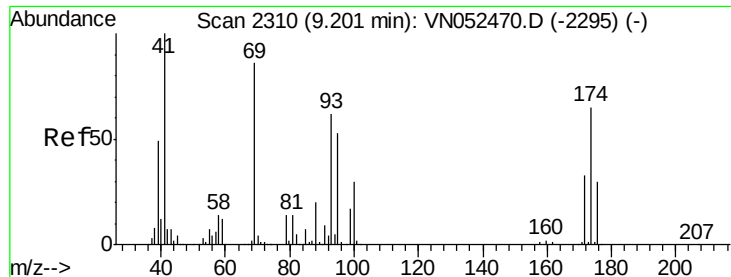
Tot Ion: 63 Resp: 3317
 Ion Ratio Lower Upper
 63 100
 65 0.0 25.0 37.6#



#48
 Methyl methacrylate
 Concen: 1.385 ug/l
 RT: 9.18 min Scan# 2303
 Delta R.T. -0.02 min
 Lab File: VN052798.D
 Acq: 11 Dec 2018 13:28

Tgt Ion: 41 Resp: 12873
 Ion Ratio Lower Upper
 41 100
 69 0.0 70.0 105.0#
 39 0.0 42.6 64.0#





#49

1,4-Dioxane

Concen: 3.276 ug/l

RT: 9.27 min Scan# 2333

Delta R.T. 0.07 min

Lab File: VN052798.D

Acq: 11 Dec 2018 13:28

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#03

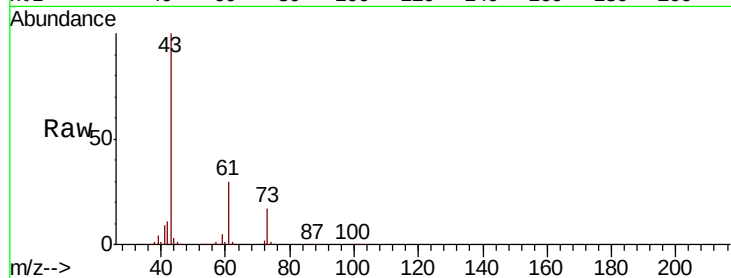
Tot Ion: 88 Resp: 316

Ion Ratio Lower Upper

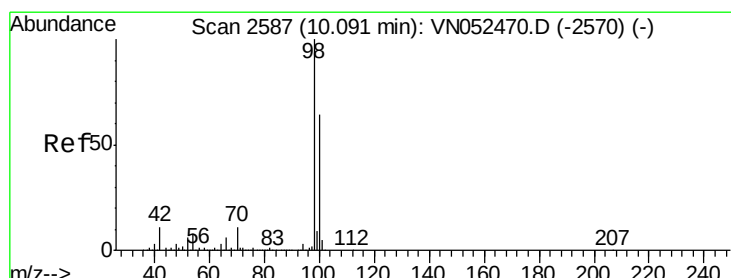
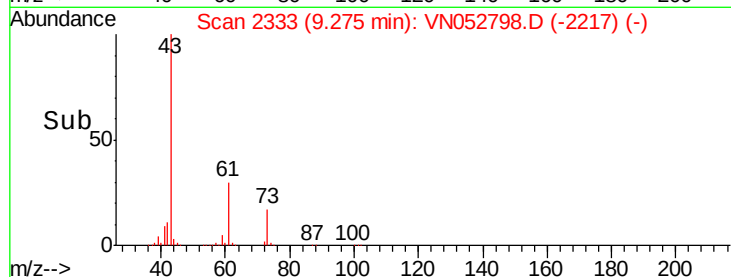
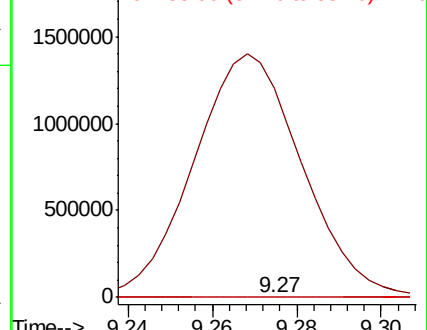
88 100

43 801851.9 26.4 39.6#

58 3572.2 55.4 83.0#



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



#50

Toluene-d8

Concen: 3.276 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052798.D

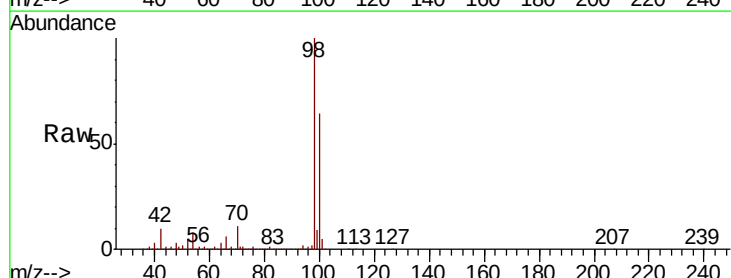
Acq: 11 Dec 2018 13:28

Tgt Ion: 98 Resp: 2243123

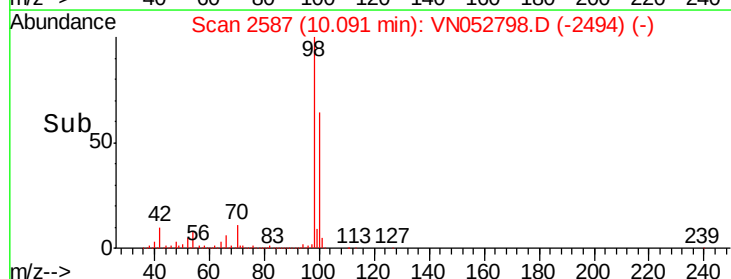
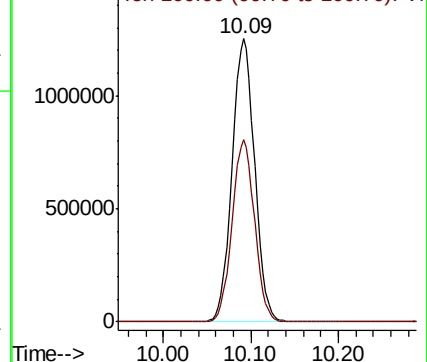
Ion Ratio Lower Upper

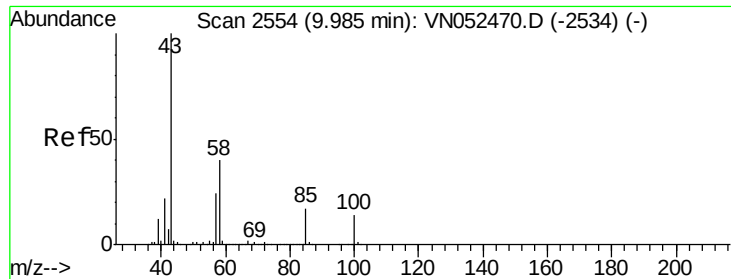
98 100

100 63.9 51.3 76.9



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





#51

4-Methyl-2-Pentanone

Concen: 1.491 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052798.D

Acq: 11 Dec 2018 13:28

Instrument :

MSVOA_N

ClientSampleId :

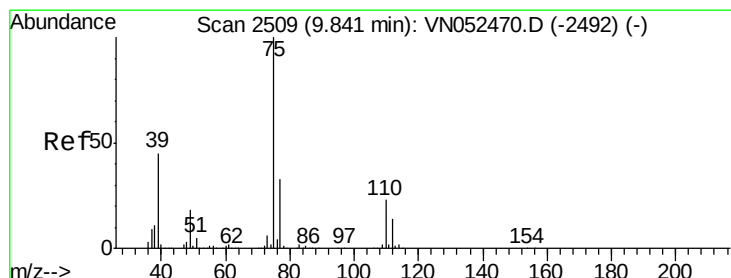
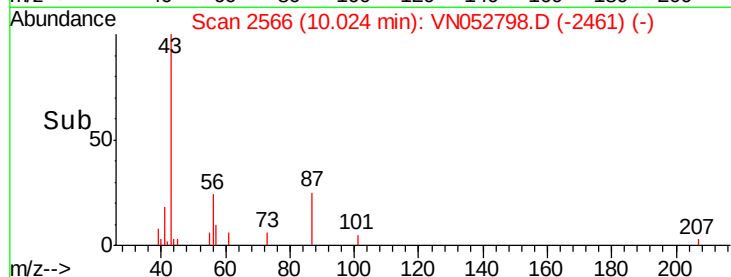
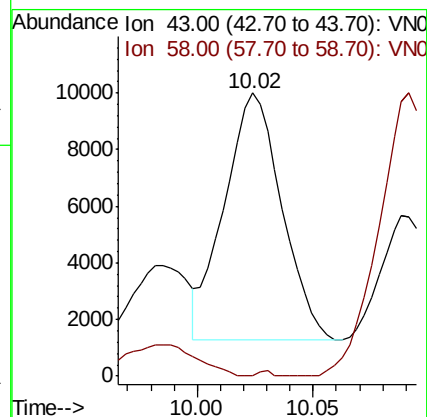
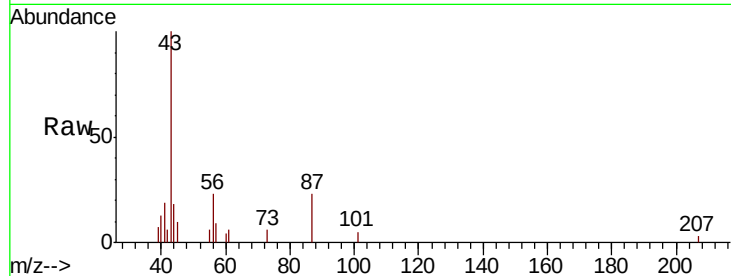
PB115504ZHE#03

Tot Ion: 43 Resp: 14913

Ion Ratio Lower Upper

43 100

58 0.0 31.5 47.3#



#54

cis-1,3-Dichloropropene

Concen: 6.175 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052798.D

Acq: 11 Dec 2018 13:28

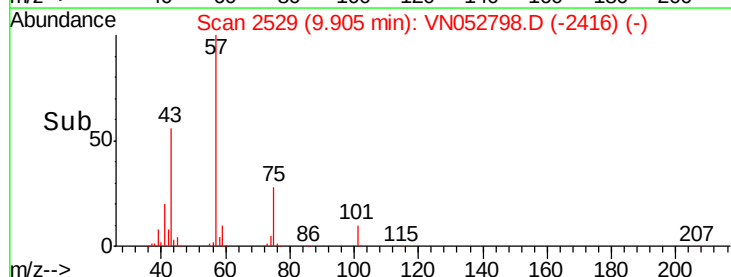
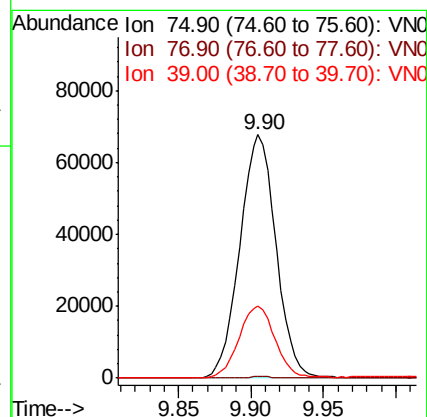
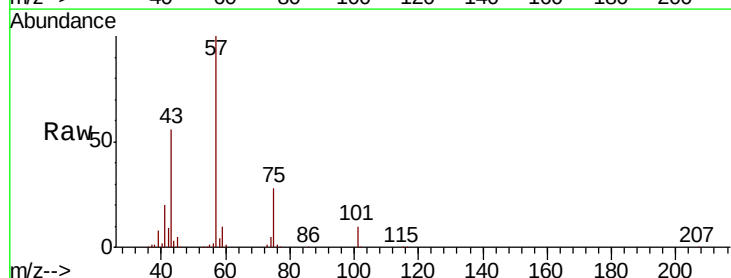
Tgt Ion: 75 Resp: 117158

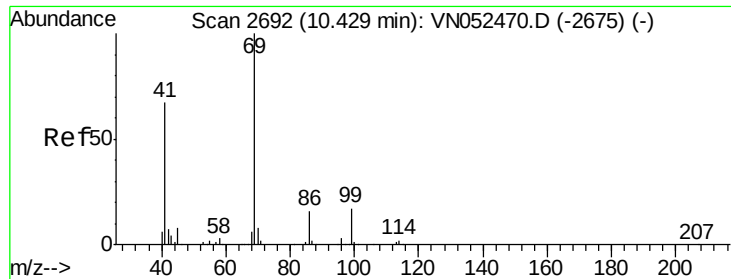
Ion Ratio Lower Upper

75 100

77 0.6 26.2 39.2#

39 29.7 36.0 54.0#





#56

Ethyl methacrylate

Concen: 2.788 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN052798.D

Acq: 11 Dec 2018 13:28

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#03

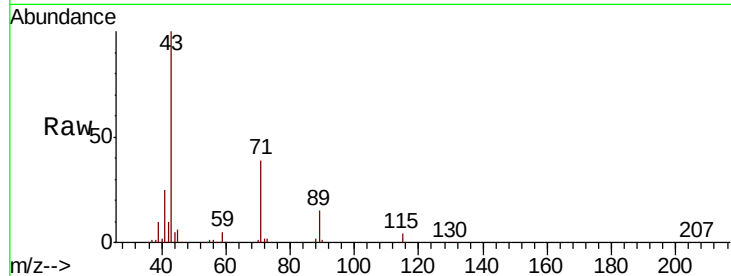
Tot Ion: 69 Resp: 1502

Ion Ratio Lower Upper

69 100

41 6078.5 52.6 79.0#

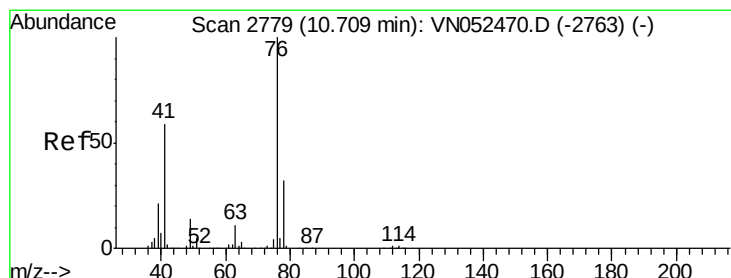
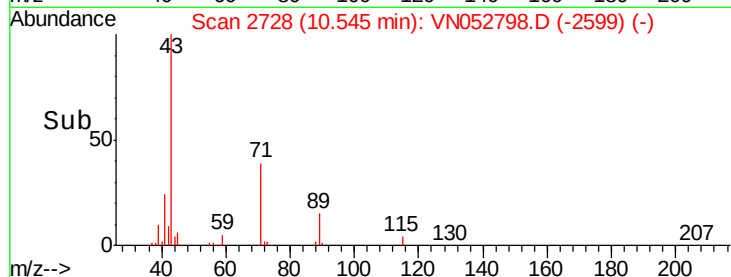
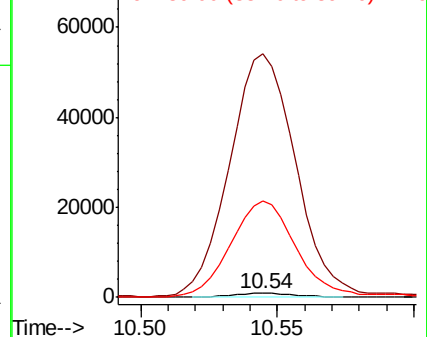
39 2419.4 25.9 38.9#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.281 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052798.D

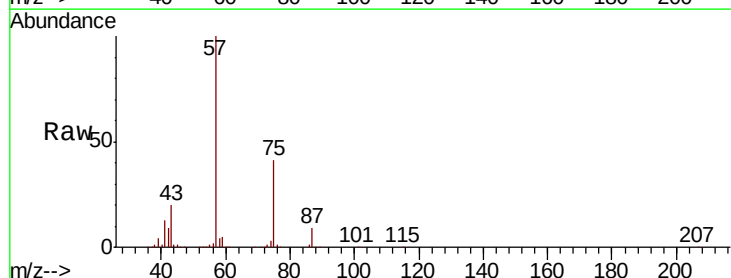
Acq: 11 Dec 2018 13:28

Tgt Ion: 76 Resp: 24314

Ion Ratio Lower Upper

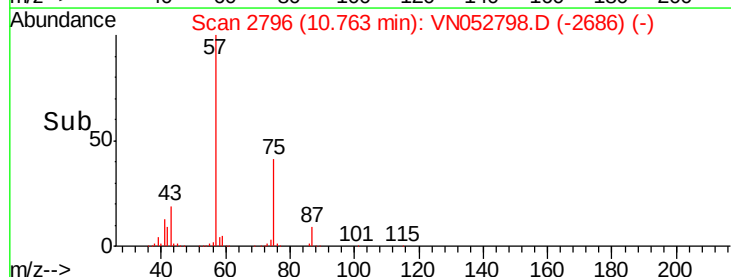
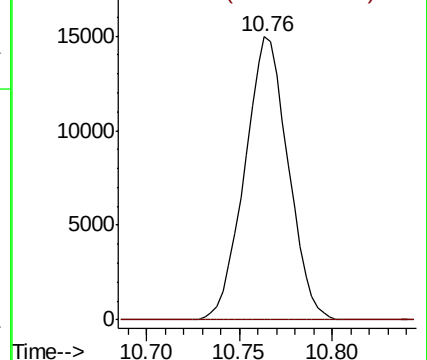
76 100

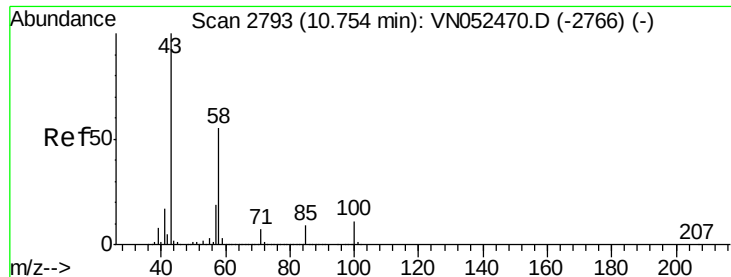
78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

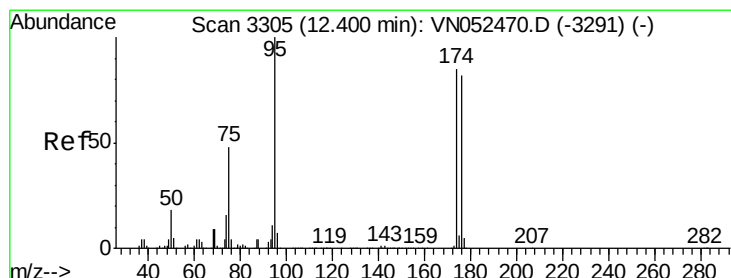
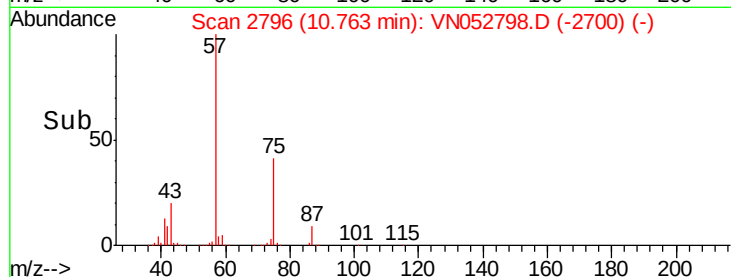
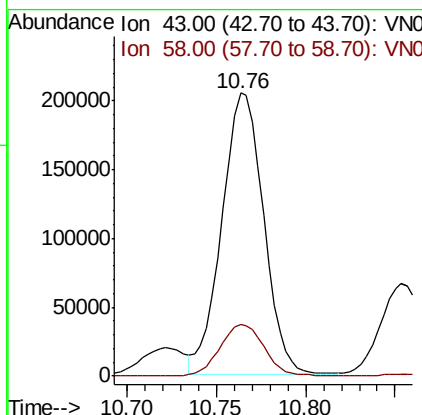
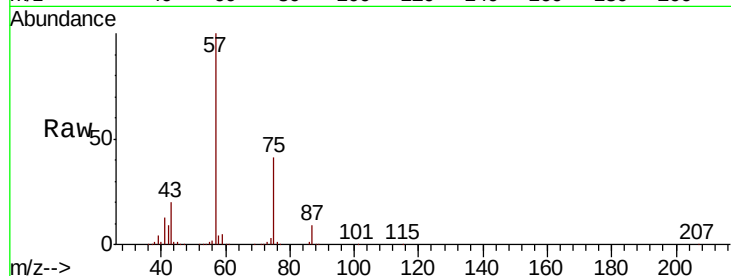




#59
2-Hexanone
Concen: 50.012 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN052798.D
Acq: 11 Dec 2018 13:28

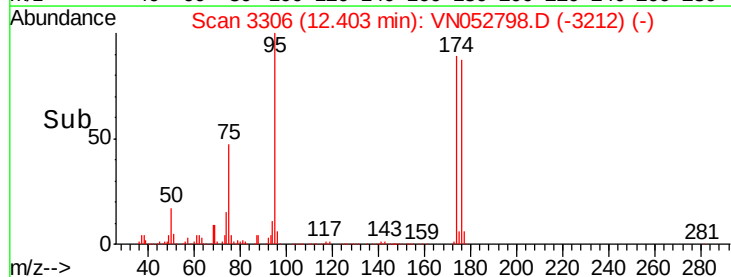
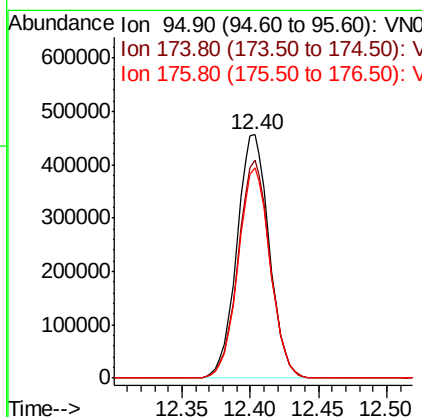
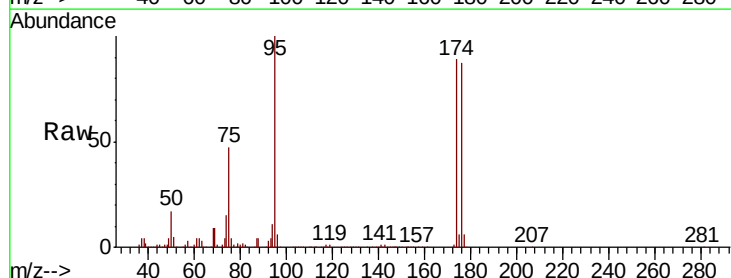
Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#03

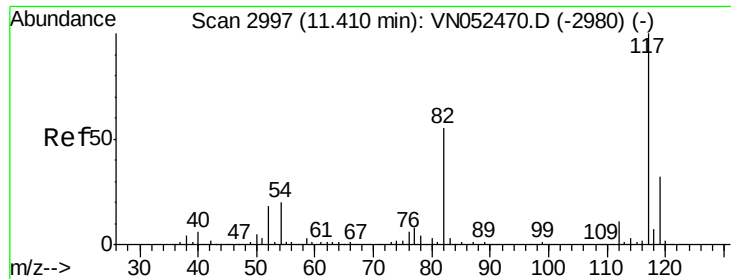
Tot Ion: 43 Resp: 335686
Ion Ratio Lower Upper
43 100
58 19.5 27.4 82.0#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052798.D
Acq: 11 Dec 2018 13:28

Tgt Ion: 95 Resp: 749891
Ion Ratio Lower Upper
95 100
174 88.5 0.0 173.0
176 85.9 0.0 166.2

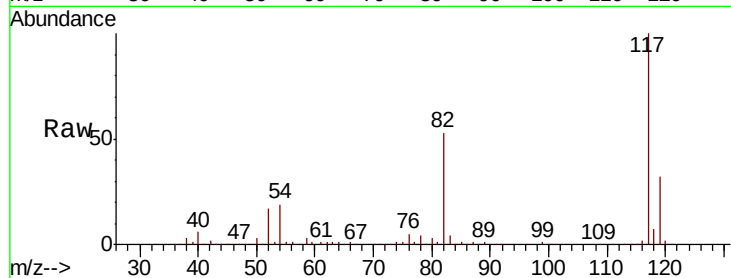




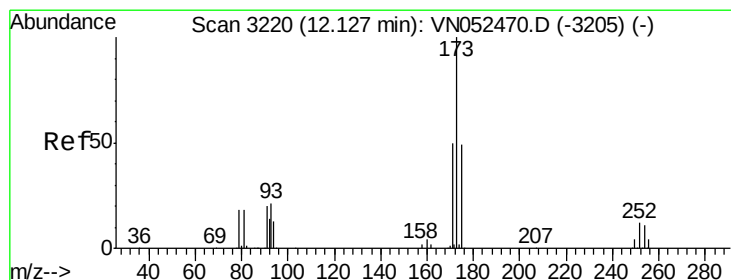
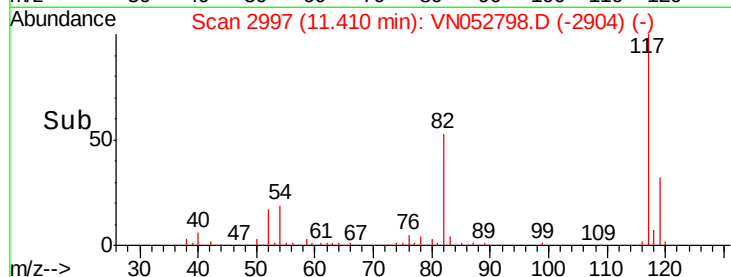
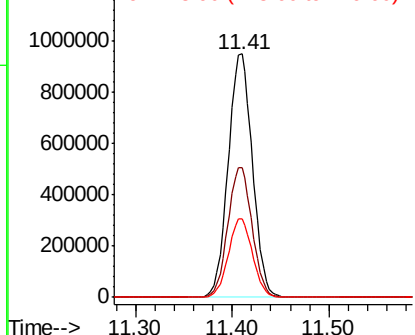
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. -0.00 min
Lab File: VN052798.D
Acq: 11 Dec 2018 13:28

Instrument :
MSVOA_N
ClientSampleId :
PB115504ZHE#03

Tot Ion:117 Resp: 1647233
Ion Ratio Lower Upper
117 100
82 53.1 43.6 65.4
119 32.1 25.4 38.2

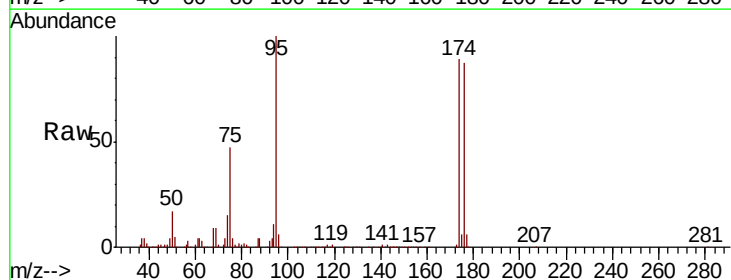


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

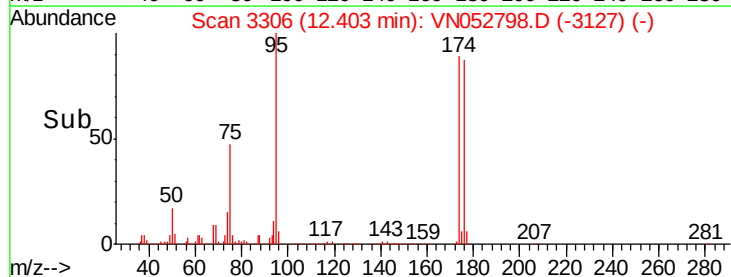
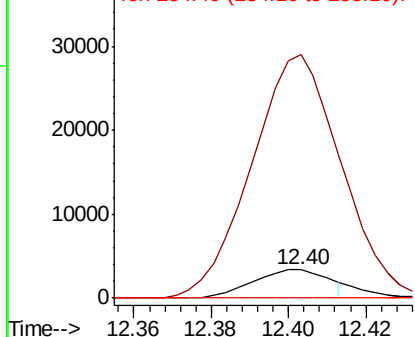


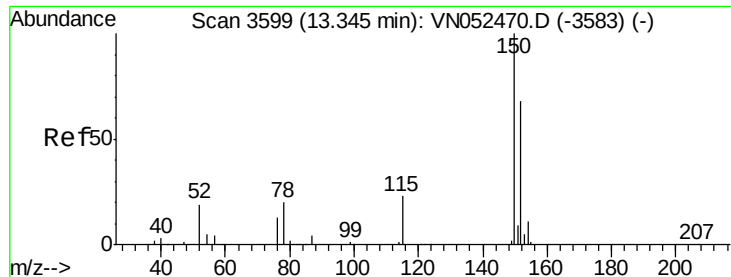
#71
Bromoform
Concen: 0.579 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN052798.D
Acq: 11 Dec 2018 13:28

Tgt Ion:173 Resp: 4531
Ion Ratio Lower Upper
173 100
175 893.5 24.4 73.2#
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: VN052798.D

Acq: 11 Dec 2018 13:28

Instrument :

MSVOA_N

ClientSampleId :

PB115504ZHE#03

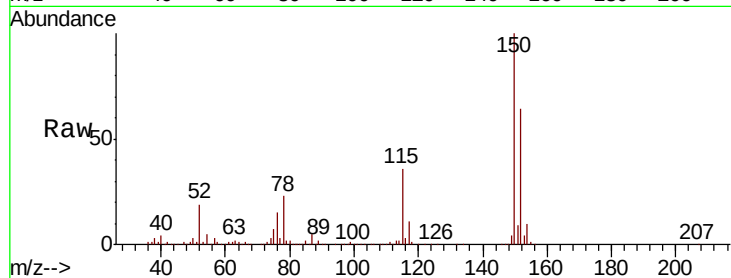
Tot Ion:152 Resp: 699280

Ion Ratio Lower Upper

152 100

115 56.2 28.4 85.2

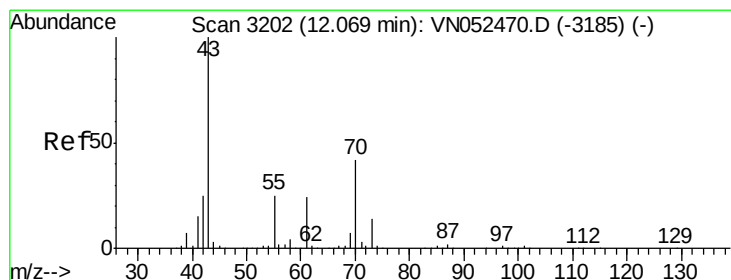
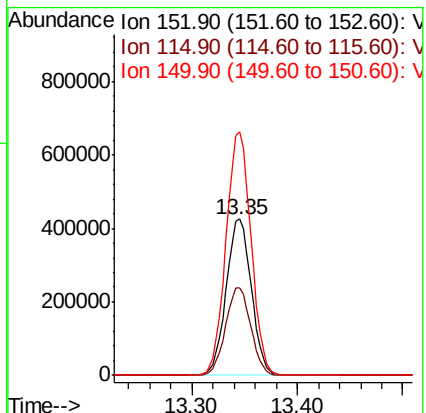
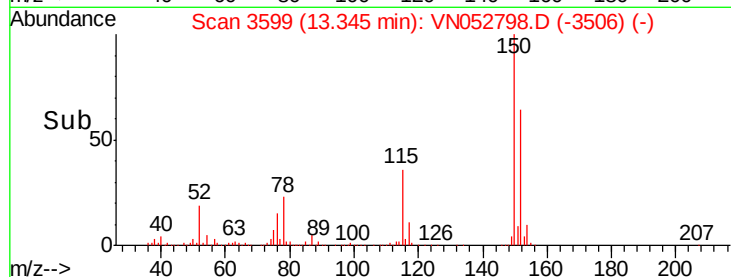
150 155.1 0.0 346.0



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: 2.803 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN052798.D

Acq: 11 Dec 2018 13:28

Tgt Ion: 43 Resp: 38855

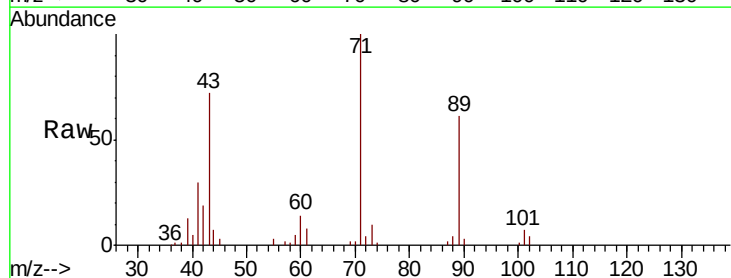
Ion Ratio Lower Upper

43 100

70 2.6 33.8 50.8#

55 4.2 20.0 30.0#

61 10.6 19.7 29.5#

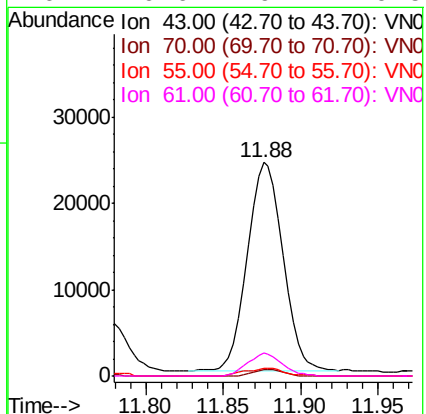
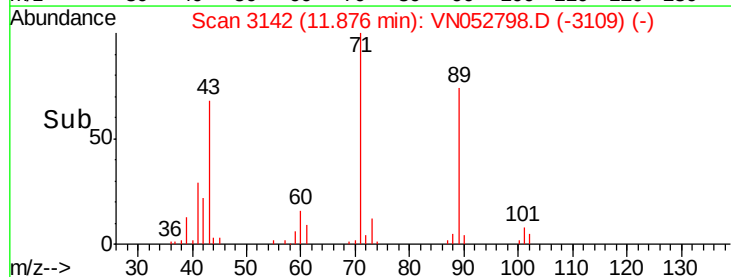


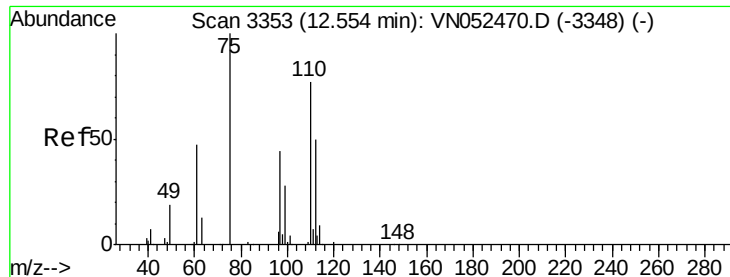
Abundance Ion 43.00 (42.70 to 43.70): V

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: 33.047 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052798.D

Acq: 11 Dec 2018 13:28

Instrument :

MSVOA_N

ClientSampleId :

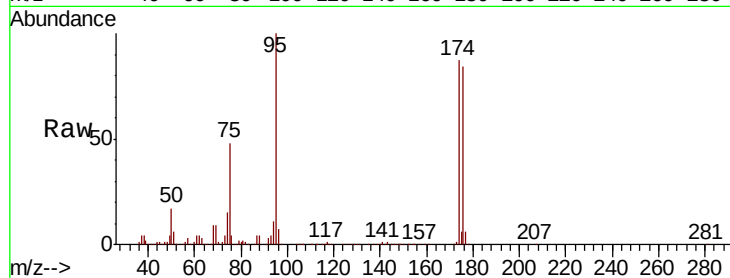
PB115504ZHE#03

Tot Ion: 75 Resp: 356352

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

250000

200000

150000

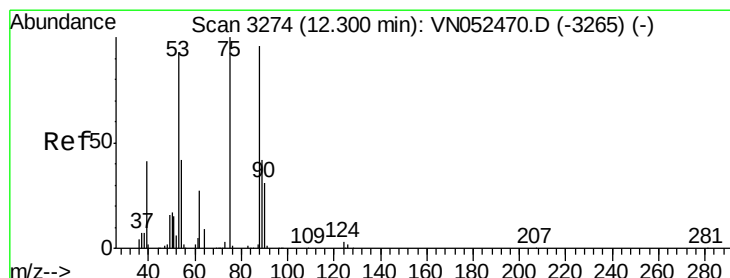
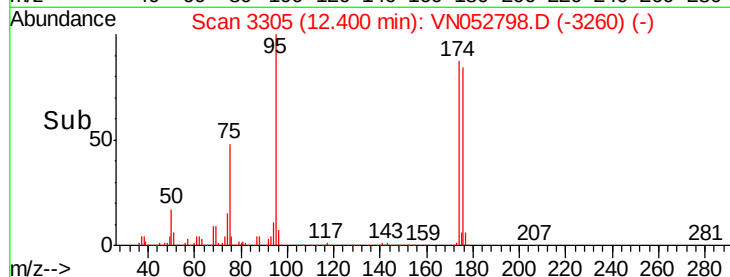
100000

50000

0

12.35 12.40 12.45

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 110.360 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052798.D

Acq: 11 Dec 2018 13:28

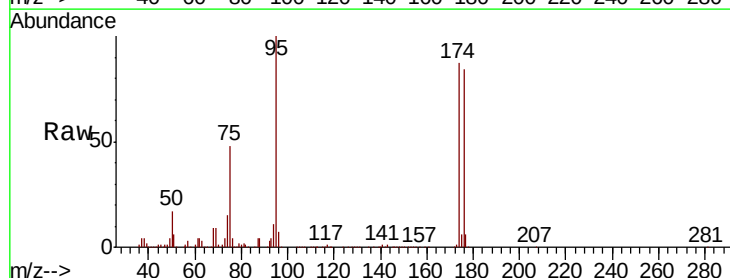
Tgt Ion: 75 Resp: 356352

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

300000

250000

200000

150000

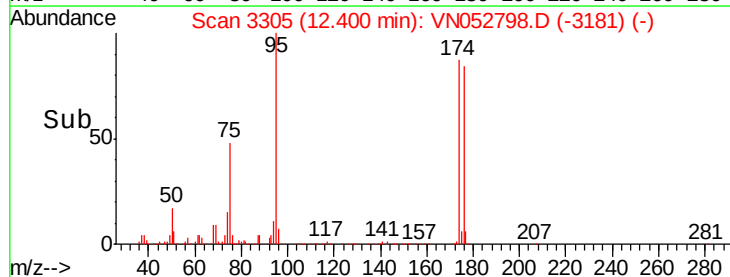
100000

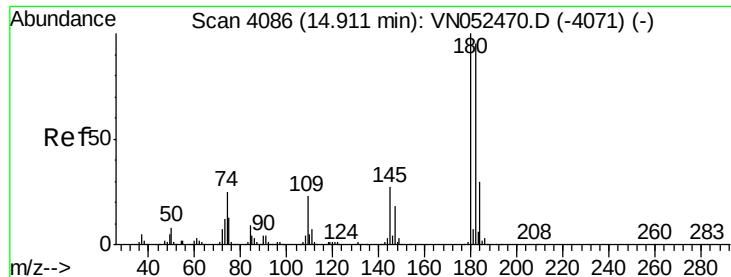
50000

0

12.35 12.40 12.45

Time-->

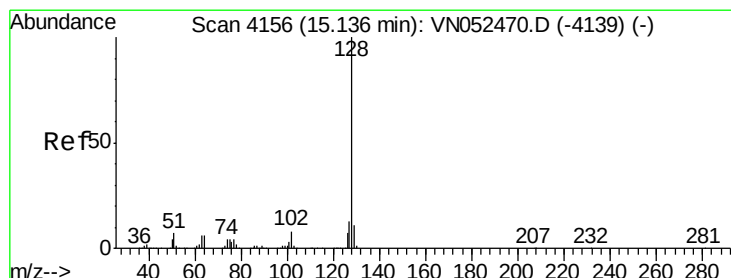
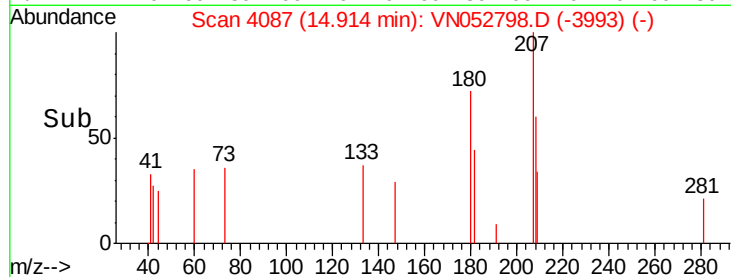
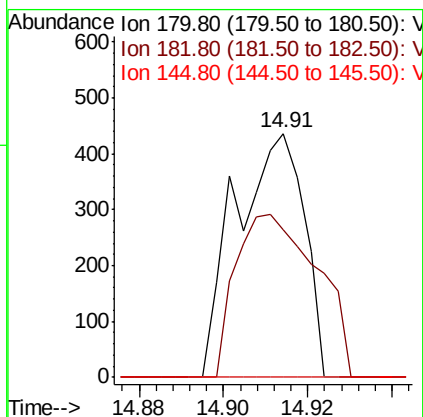
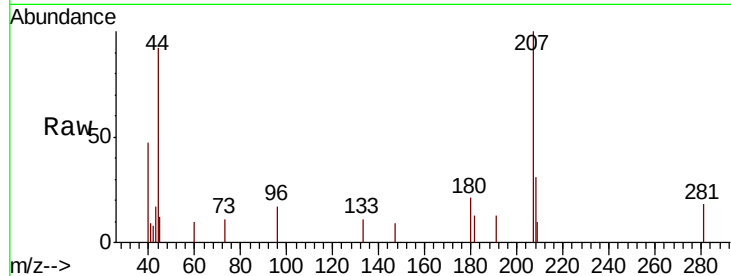




#93
 1,2,4-Trichlorobenzene
 Concen: 2.867 ug/l
 RT: 14.91 min Scan# 4087
 Delta R.T. 0.00 min
 Lab File: VN052798.D
 Acq: 11 Dec 2018 13:28

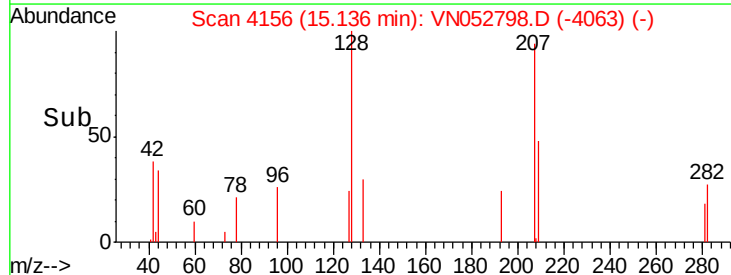
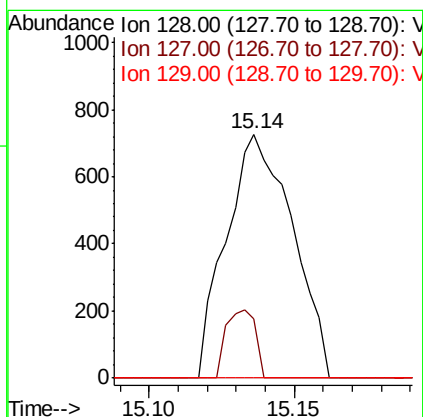
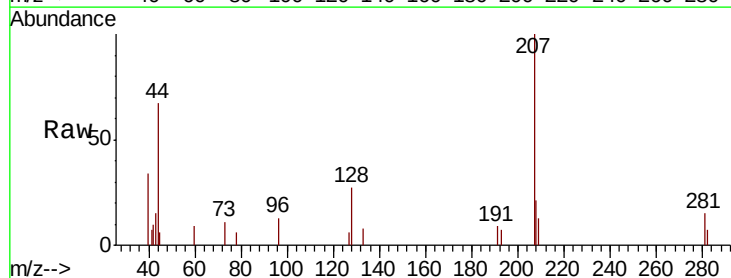
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115504ZHE#03

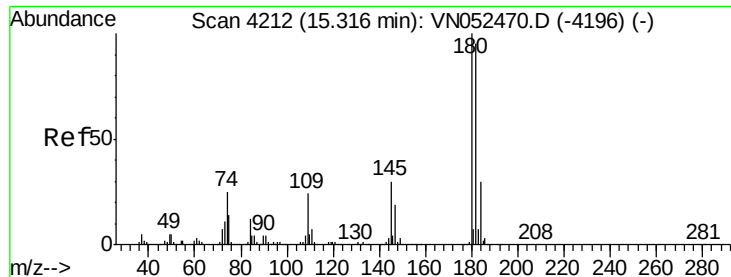
Tot Ion:180 Resp: 492
 Ion Ratio Lower Upper
 180 100
 182 79.9 47.8 143.4
 145 0.0 14.1 42.3#



#95
 Naphthalene
 Concen: 3.469 ug/l
 RT: 15.14 min Scan# 4156
 Delta R.T. 0.00 min
 Lab File: VN052798.D
 Acq: 11 Dec 2018 13:28

Tgt Ion:128 Resp: 1152
 Ion Ratio Lower Upper
 128 100
 127 12.2 10.2 15.2
 129 0.0 8.7 13.1#

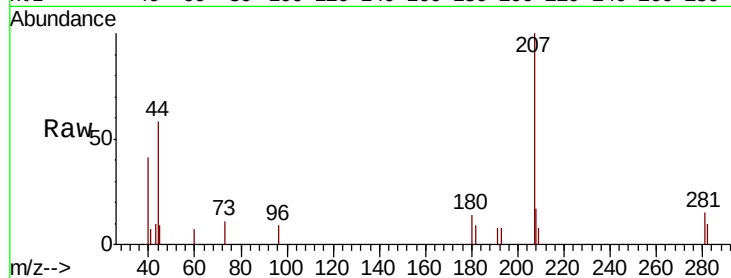




#96
 1,2,3-Trichlorobenzene
 Concen: 2.766 ug/l
 RT: 15.32 min Scan# 4212
 Delta R.T. 0.00 min
 Lab File: VN052798.D
 Acq: 11 Dec 2018 13:28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115504ZHE#03

Tot Ion:180 Resp: 470
 Ion Ratio Lower Upper
 180 100
 182 63.4 47.8 143.3
 145 13.4 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

