

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN010319\
 Data File : VN053272.D
 Acq On : 3 Jan 2019 19:38
 Operator : MD\SY
 Sample : K1002-02
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 25 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 AU-05-010219-A

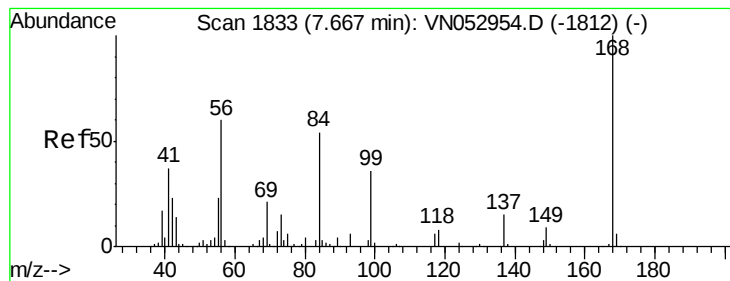
Quant Time: Jan 04 00:57:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1033113	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1598908	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1438093	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	532163	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	523379	49.92	ug/l	0.00
Spiked Amount			Recovery	=	99.84%	
35) Dibromofluoromethane	7.59	113	448569	61.42	ug/l	0.00
Spiked Amount			Recovery	=	122.84%	
50) Toluene-d8	10.09	98	1966836	50.16	ug/l	0.00
Spiked Amount			Recovery	=	100.32%	
62) 4-Bromofluorobenzene	12.40	95	627506	45.59	ug/l	0.00
Spiked Amount			Recovery	=	91.18%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.78	59	685	1.071	ug/l #	74
14) Allyl chloride	4.56	41	18785	1.232	ug/l #	24
16) Acetone	3.81	43	18574	9.036	ug/l	97
18) Methyl Acetate	4.32	43	3563	1.366	ug/l #	68
20) Methylene Chloride	4.55	84	515635	45.985	ug/l	98
25) 2-Butanone	6.83	43	12066	3.498	ug/l	94
29) Tetrahydrofuran	7.23	42	1416	0.550	ug/l #	67
31) Cyclohexane	7.67	56	15943	Below Cal	#	1
36) 1,1-Dichloropropene	7.66	75	67755	4.415	ug/l #	49
37) Ethyl Acetate	6.83	43	12066	1.408	ug/l #	68
38) Carbon Tetrachloride	7.67	117	88592	6.298	ug/l #	16
43) Isopropyl Acetate	8.17	43	47037	1.831	ug/l #	83
45) 1,2-Dichloropropane	9.27	63	3183	0.268	ug/l #	44
48) Methyl methacrylate	9.18	41	14778	1.778	ug/l #	12
49) 1,4-Dioxane	9.27	88	258	2.453	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	5953	0.718	ug/l	94
54) cis-1,3-Dichloropropene	9.90	75	101283	5.699	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	21248	1.255	ug/l #	42
59) 2-Hexanone	10.76	43	288405	51.378	ug/l #	52
71) Bromoform	12.40	173	3954	0.494	ug/l #	1
74) N-amyl acetate	12.03	43	2835	0.245	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	286435	31.974	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	286435	103.055	ug/l #	12
95) Naphthalene	15.13	128	5235	1.391	ug/l #	94

(#) = 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

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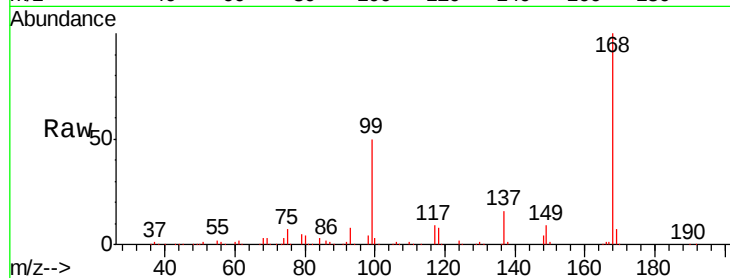
AU-05-010219-A

Tgt Ion:168 Resp: 1033113

Ion Ratio Lower Upper

168 100

99 50.4 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

400000

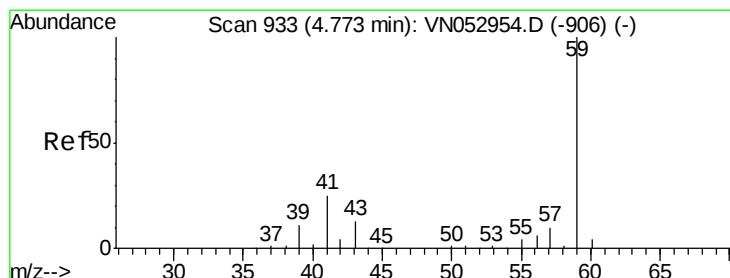
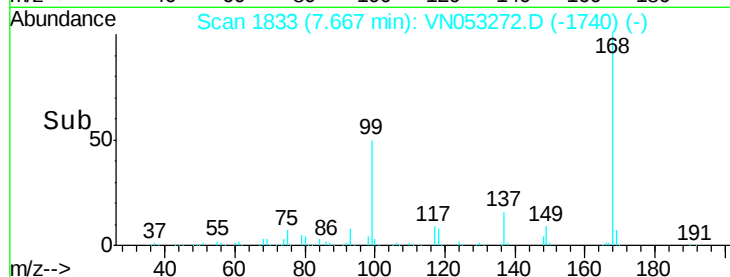
300000

200000

100000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.071 ug/l

RT: 4.78 min Scan# 936

Delta R.T. 0.01 min

Lab File: VN053272.D

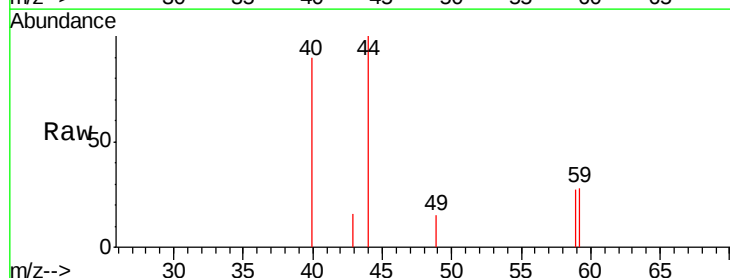
Acq: 3 Jan 2019 19:38

Tgt Ion: 59 Resp: 685

Ion Ratio Lower Upper

59 100

57 0.0 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.78

600

500

400

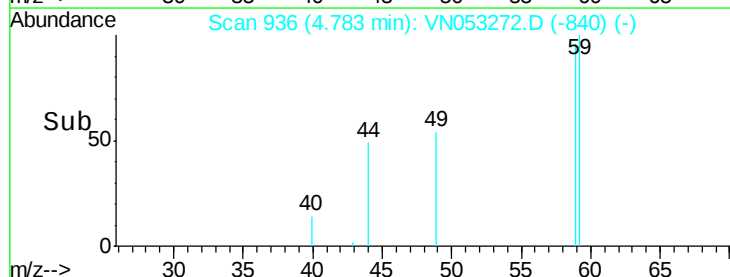
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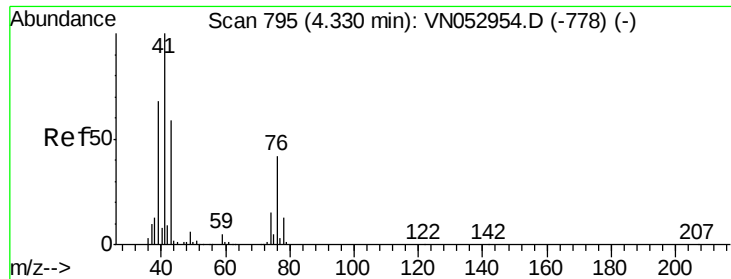
200

100

0

Time-->

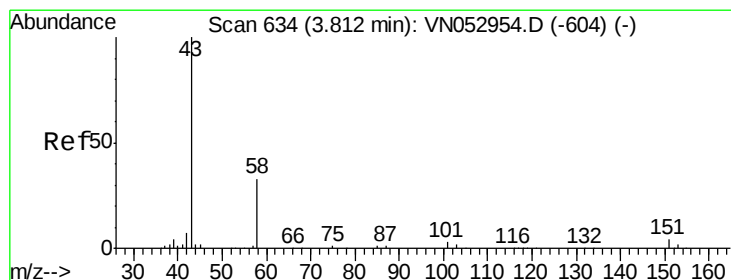
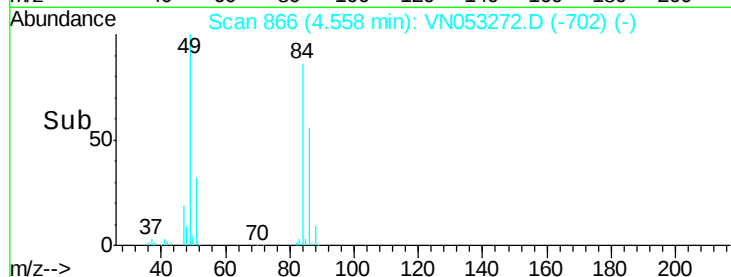
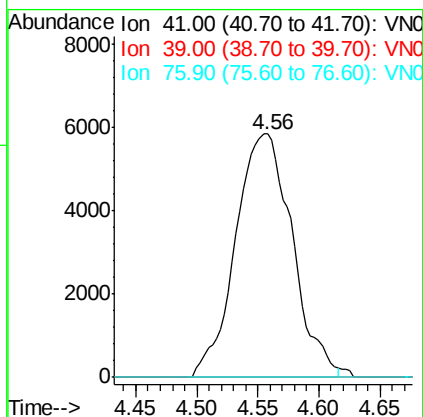
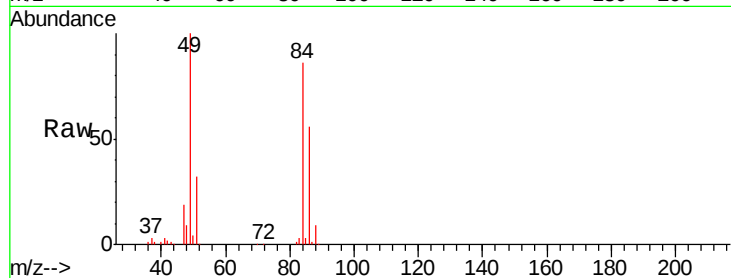




#14
 Allyl chloride
 Concen: 1.232 ug/l
 RT: 4.56 min Scan# 866
 Delta R.T. 0.23 min
 Lab File: VN053272.D
 Acq: 3 Jan 2019 19:38

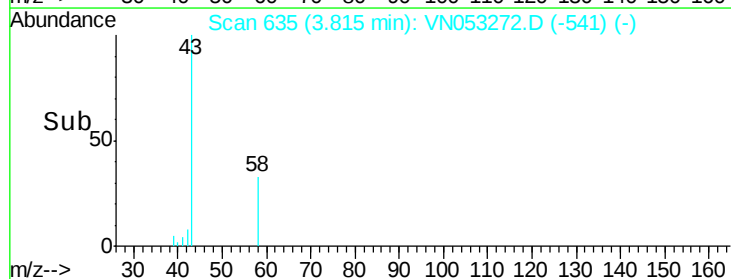
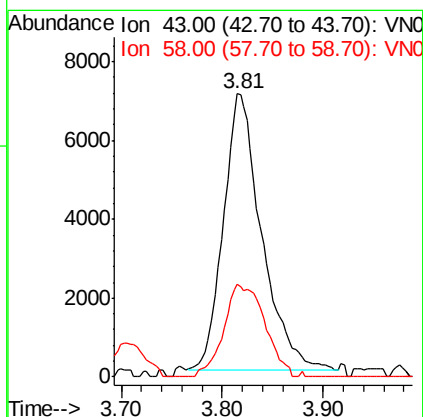
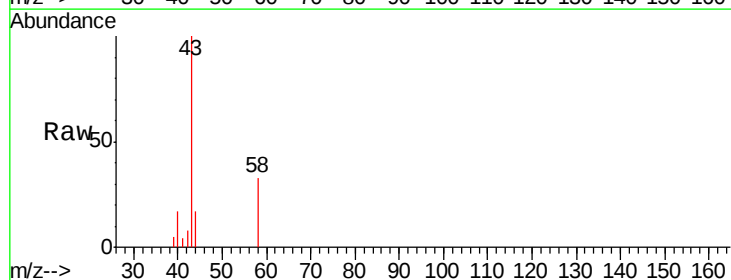
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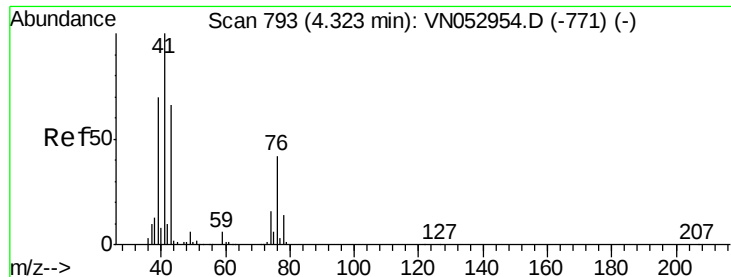
Tgt Ion: 41 Resp: 18785
 Ion Ratio Lower Upper
 41 100
 39 0.0 54.1 81.1#
 76 0.0 30.3 45.5#



#16
 Acetone
 Concen: 9.036 ug/l
 RT: 3.81 min Scan# 635
 Delta R.T. 0.00 min
 Lab File: VN053272.D
 Acq: 3 Jan 2019 19:38

Tgt Ion: 43 Resp: 18574
 Ion Ratio Lower Upper
 43 100
 58 33.4 25.4 38.0

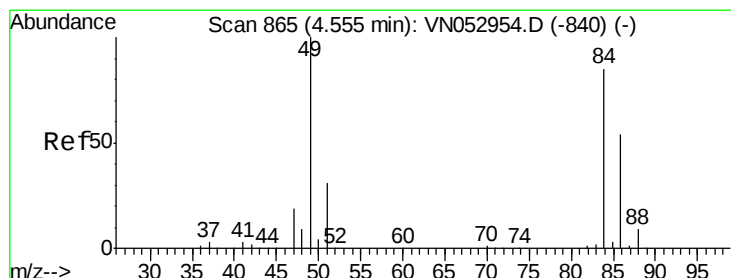
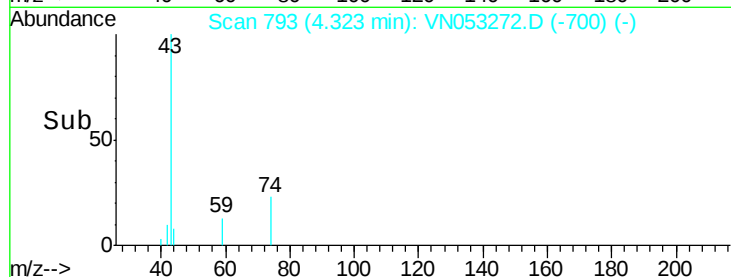
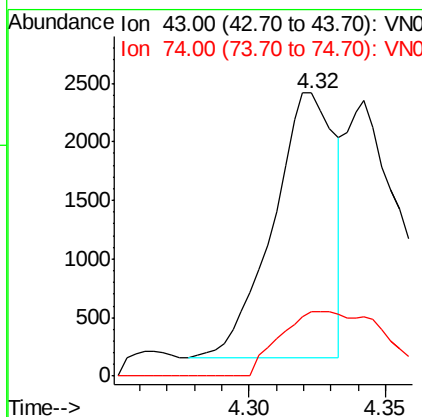
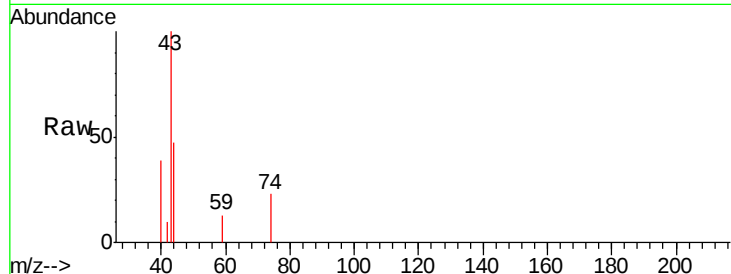




#18
Methyl Acetate
Concen: 1.366 ug/l
RT: 4.32 min Scan# 793
Delta R.T. -0.00 min
Lab File: VN053272.D
Acq: 3 Jan 2019 19:38

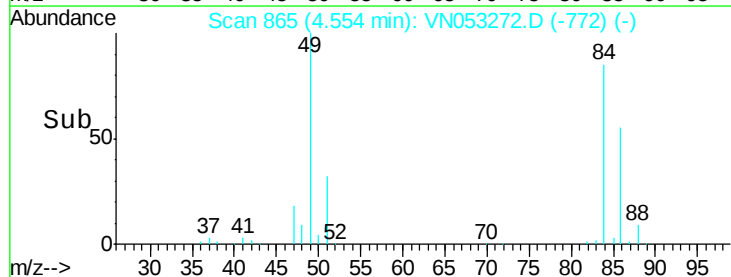
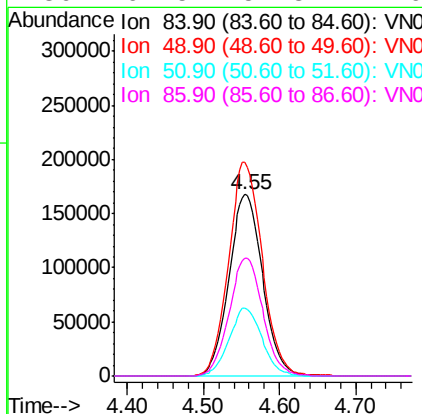
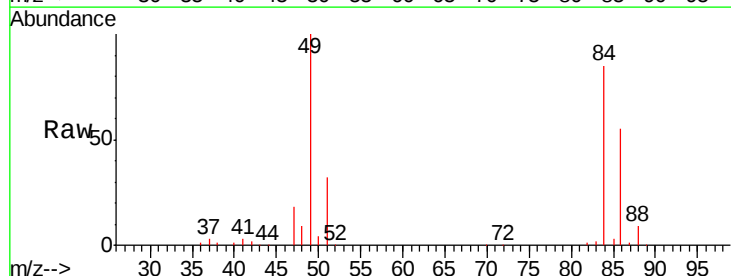
Instrument :
MSVOA_N
ClientSampleId :
AU-05-010219-A

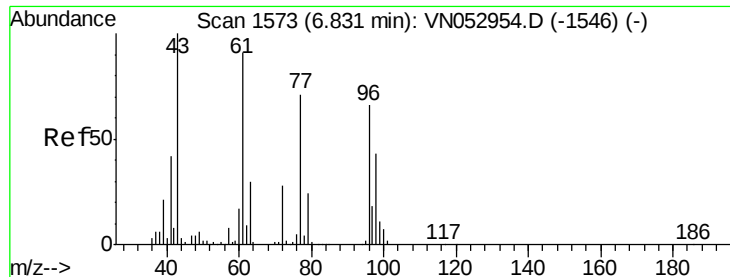
Tgt Ion: 43 Resp: 3563
Ion Ratio Lower Upper
43 100
74 39.7 19.2 28.8#



#20
Methylene Chloride
Concen: 45.985 ug/l
RT: 4.55 min Scan# 865
Delta R.T. -0.00 min
Lab File: VN053272.D
Acq: 3 Jan 2019 19:38

Tgt Ion: 84 Resp: 515635
Ion Ratio Lower Upper
84 100
49 117.6 96.8 145.2
51 37.5 29.9 44.9
86 64.5 51.8 77.6





#25

2-Butanone

Concen: 3.498 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VN053272.D

Acq: 3 Jan 2019 19:38

Instrument :

MSVOA_N

ClientSampleId :

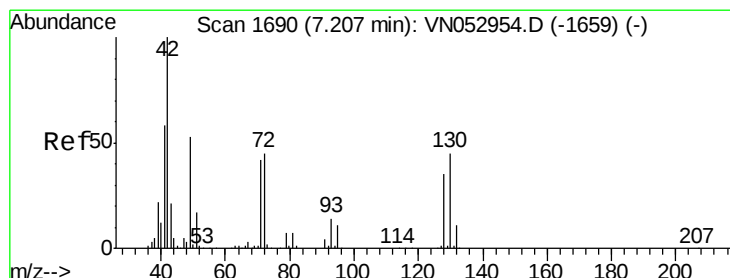
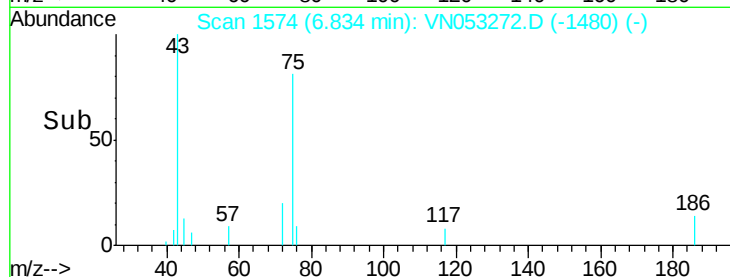
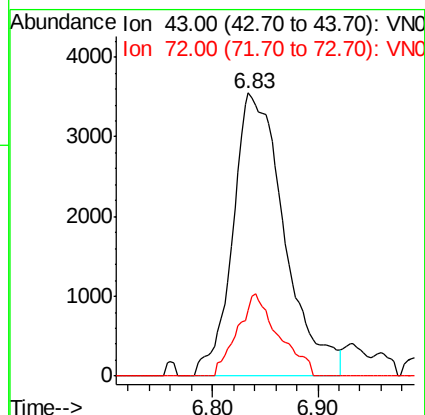
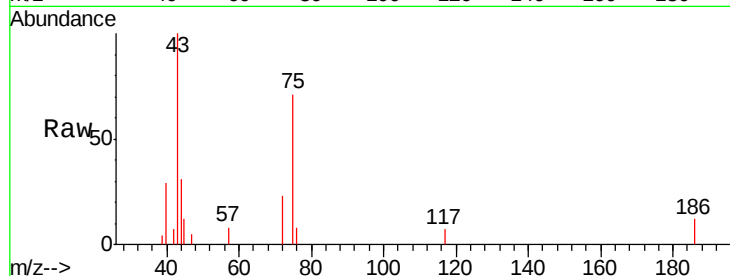
AU-05-010219-A

Tgt Ion: 43 Resp: 12066

Ion Ratio Lower Upper

43 100

72 23.1 21.0 31.6



#29

Tetrahydrofuran

Concen: 0.550 ug/l

RT: 7.23 min Scan# 1696

Delta R.T. 0.02 min

Lab File: VN053272.D

Acq: 3 Jan 2019 19:38

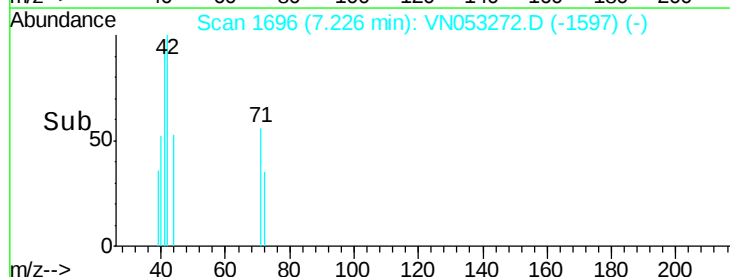
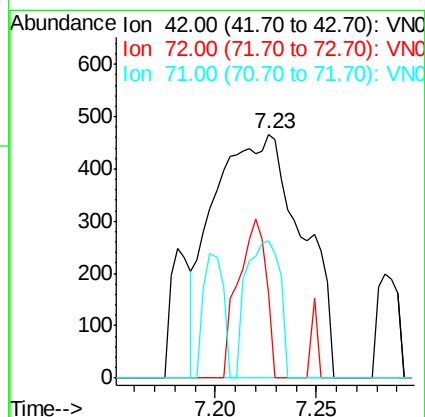
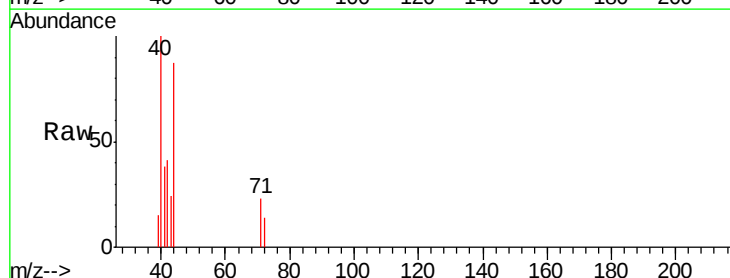
Tgt Ion: 42 Resp: 1416

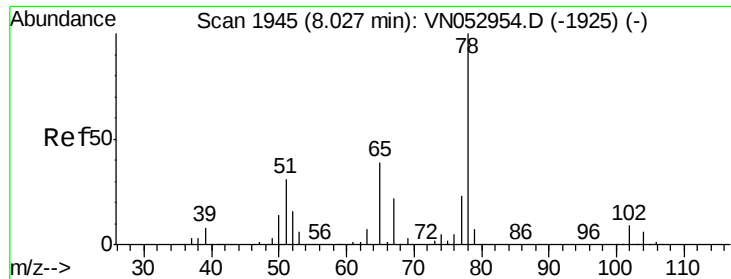
Ion Ratio Lower Upper

42 100

72 20.9 34.7 52.1#

71 21.8 32.3 48.5#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN053272.D

Acq: 3 Jan 2019 19:38

Instrument :

MSVOA_N

ClientSampleId :

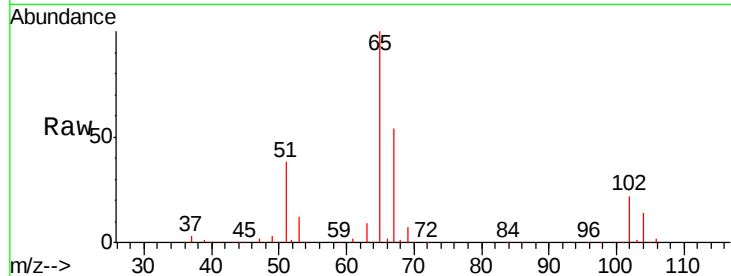
AU-05-010219-A

Tgt Ion: 65 Resp: 523379

Ion Ratio Lower Upper

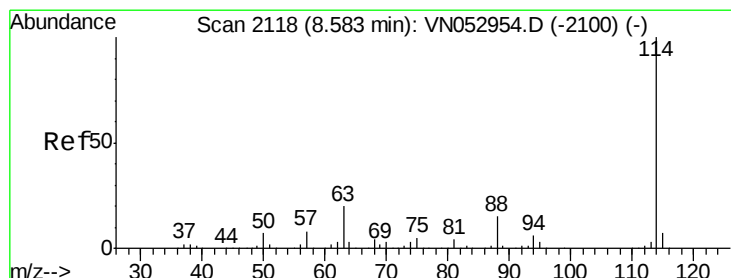
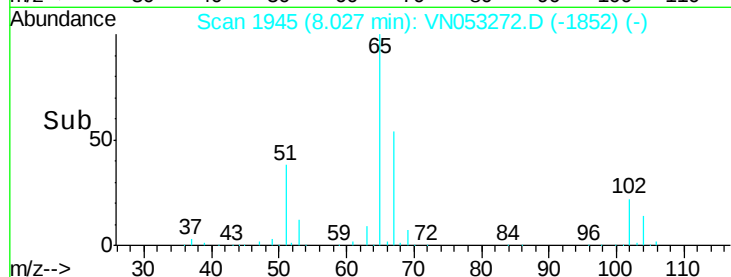
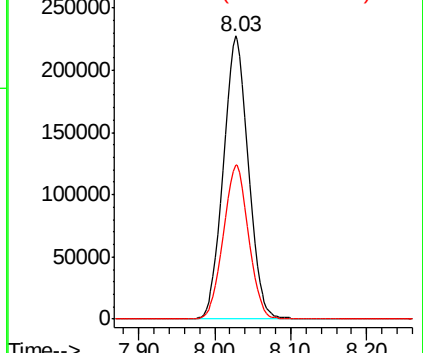
65 100

67 54.7 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053272.D

Acq: 3 Jan 2019 19:38

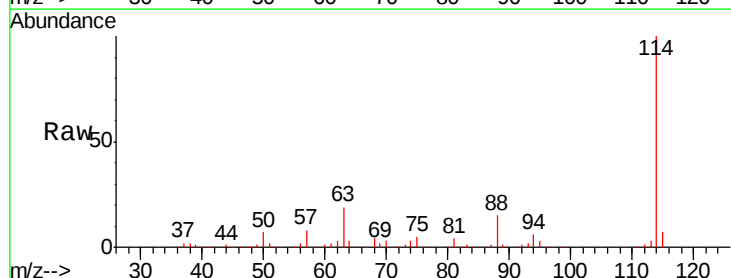
Tgt Ion: 114 Resp: 1598908

Ion Ratio Lower Upper

114 100

63 19.1 0.0 39.8

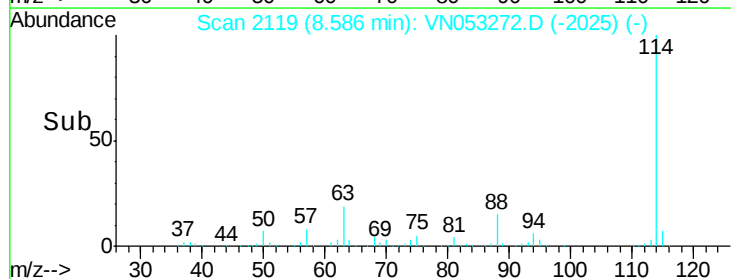
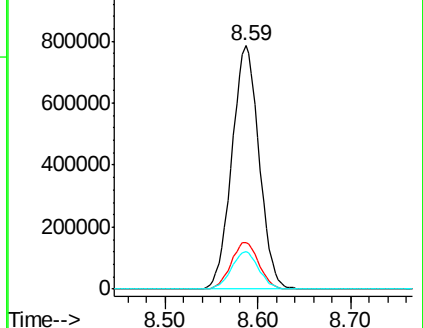
88 15.3 0.0 31.0

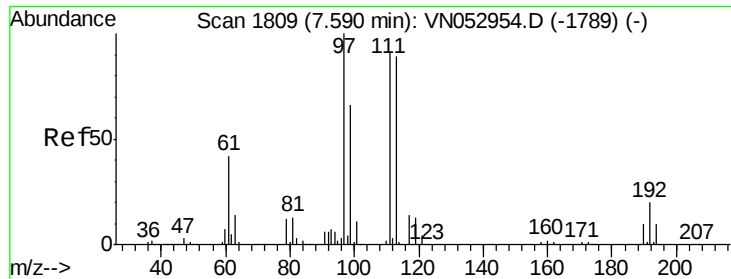


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

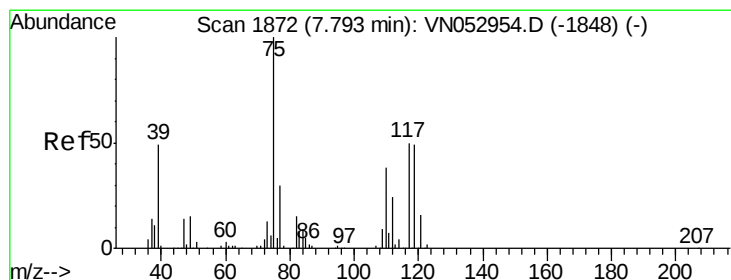
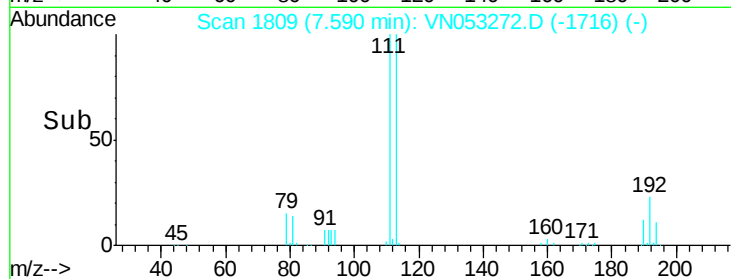
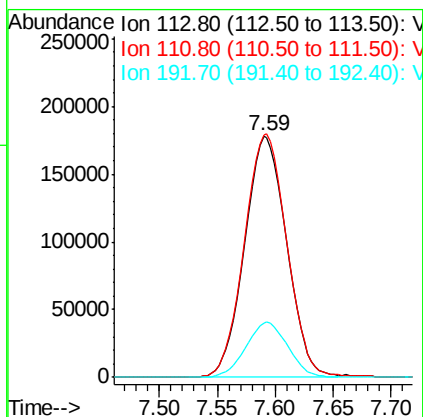
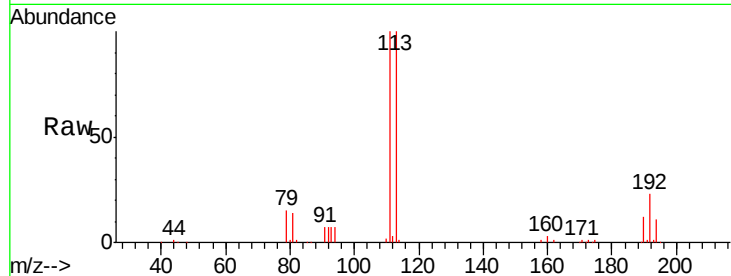




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. -0.00 min
 Lab File: VN053272.D
 Acq: 3 Jan 2019 19:38

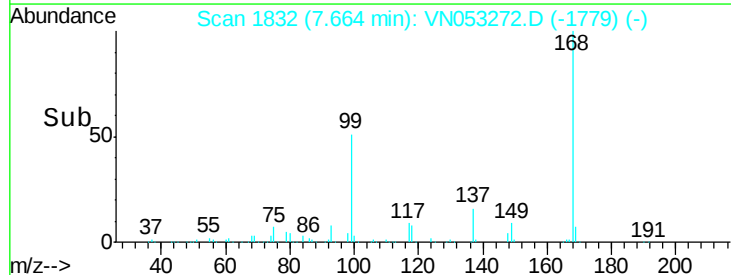
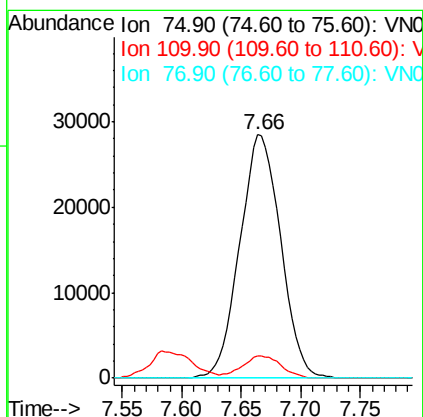
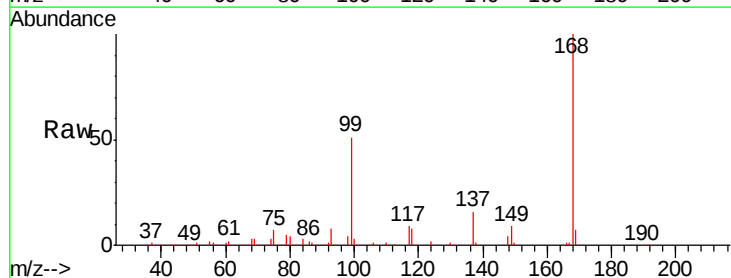
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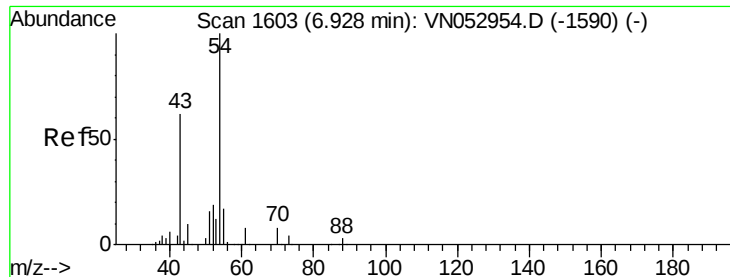
Tgt Ion:113 Resp: 448569
 Ion Ratio Lower Upper
 113 100
 111 102.5 83.0 124.4
 192 22.8 17.5 26.3



#36
 1,1-Dichloropropene
 Concen: 4.415 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN053272.D
 Acq: 3 Jan 2019 19:38

Tgt Ion: 75 Resp: 67755
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.2 54.6#
 77 0.0 24.9 37.3#

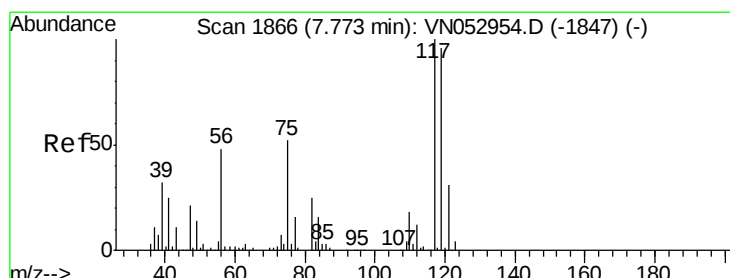
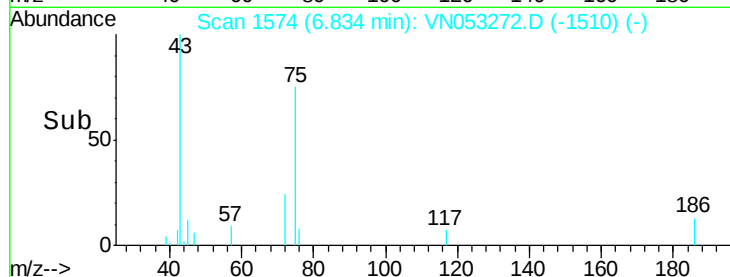
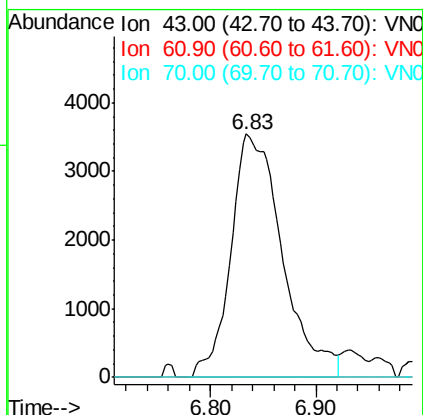
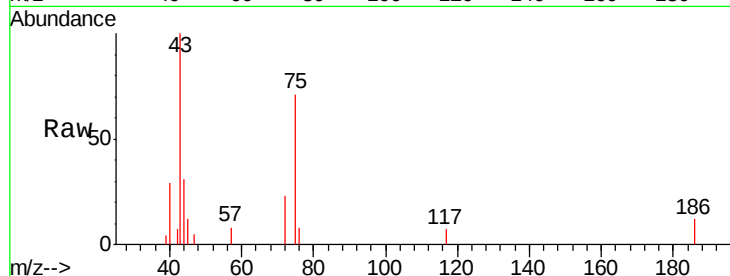




#37
Ethyl Acetate
Concen: 1.408 ug/l
RT: 6.83 min Scan# 1574
Delta R.T. -0.09 min
Lab File: VN053272.D
Acq: 3 Jan 2019 19:38

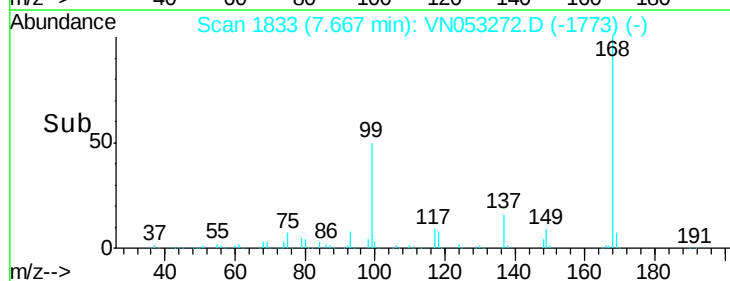
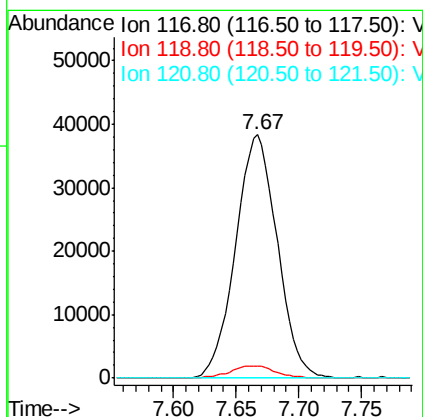
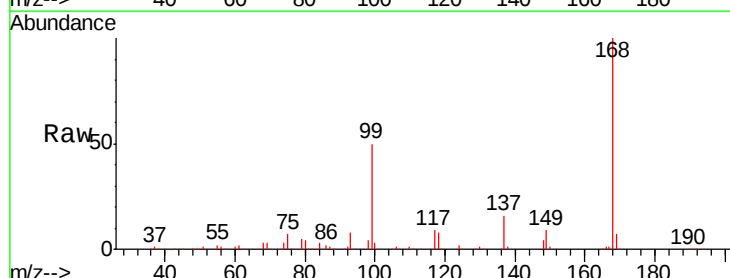
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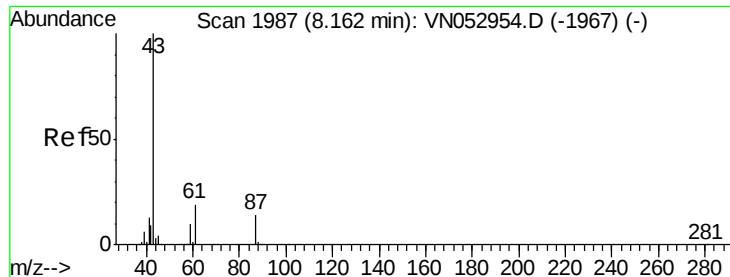
Tgt Ion: 43 Resp: 12066
Ion Ratio Lower Upper
43 100
61 0.0 11.8 17.6#
70 0.0 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 6.298 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. -0.11 min
Lab File: VN053272.D
Acq: 3 Jan 2019 19:38

Tgt Ion: 117 Resp: 88592
Ion Ratio Lower Upper
117 100
119 5.0 77.1 115.7#
121 0.0 24.9 37.3#





#43

Isopropyl Acetate

Concen: 1.831 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN053272.D

Acq: 3 Jan 2019 19:38

Instrument :

MSVOA_N

ClientSampleId :

AU-05-010219-A

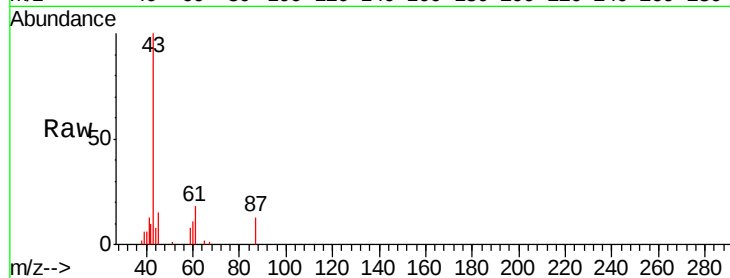
Tgt Ion: 43 Resp: 47037

Ion Ratio Lower Upper

43 100

61 16.8 22.9 34.3#

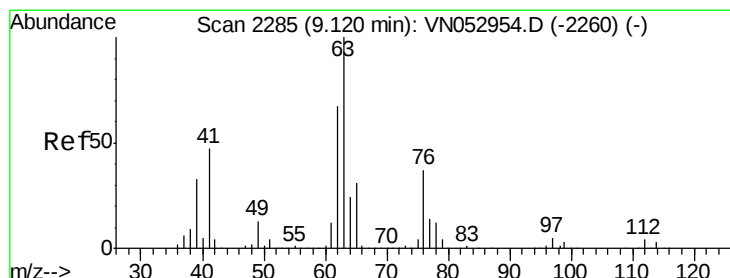
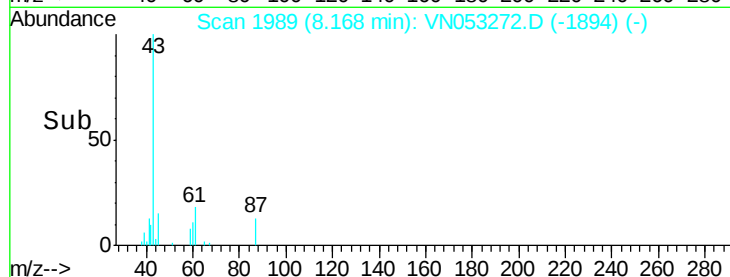
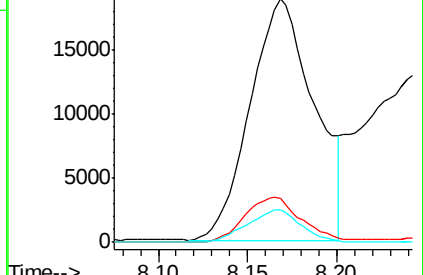
87 11.2 10.6 15.8



Abundance Ion 43.00 (42.70 to 43.70): VN053272.D (-1894) (-)

Ion 61.00 (60.70 to 61.70): VN053272.D (-1894) (-)

Ion 87.00 (86.70 to 87.70): VN053272.D (-1894) (-)



#45

1,2-Dichloropropane

Concen: 0.268 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.15 min

Lab File: VN053272.D

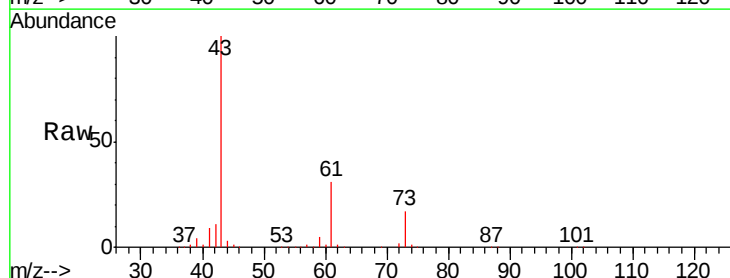
Acq: 3 Jan 2019 19:38

Tgt Ion: 63 Resp: 3183

Ion Ratio Lower Upper

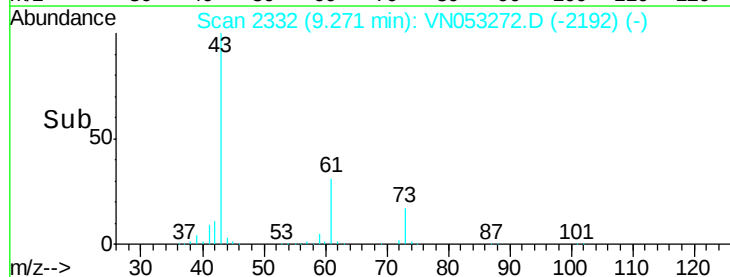
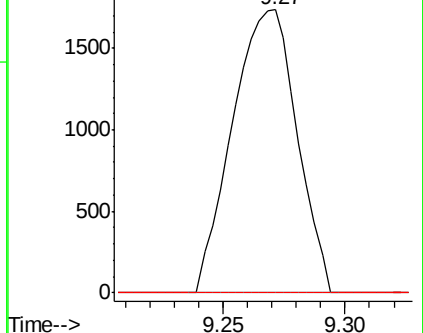
63 100

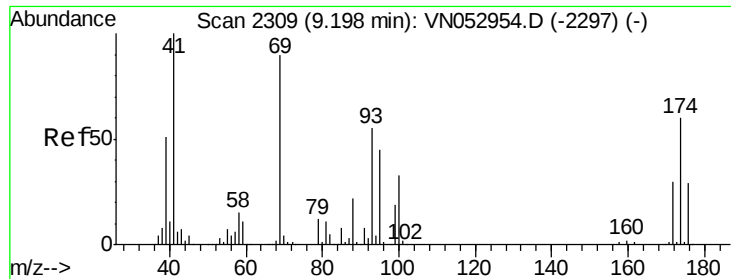
65 0.0 24.6 37.0#



Abundance Ion 62.90 (62.60 to 63.60): VN053272.D (-2192) (-)

Ion 64.90 (64.60 to 65.60): VN053272.D (-2192) (-)

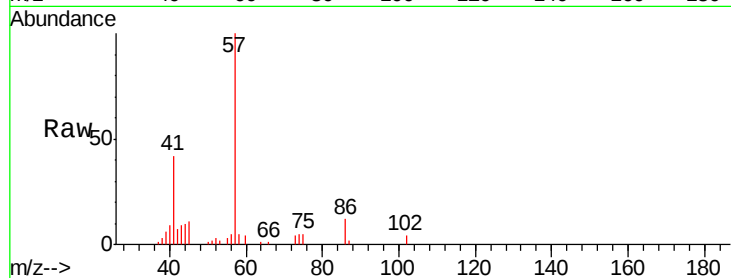




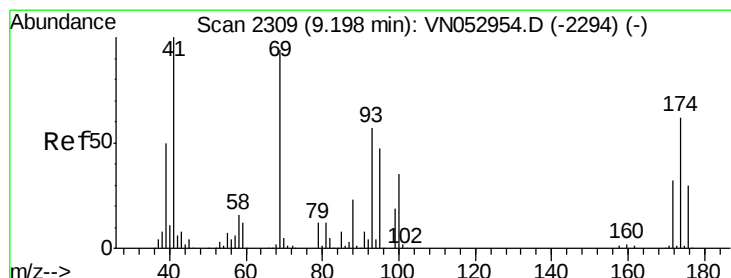
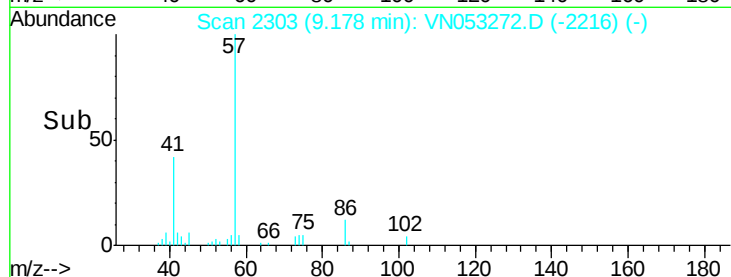
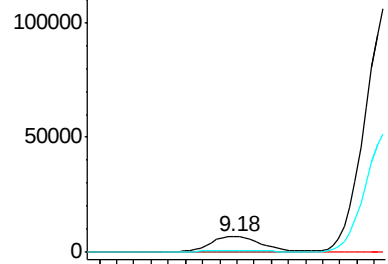
#48
Methyl methacrylate
Concen: 1.778 ug/l
RT: 9.18 min Scan# 2303
Delta R.T. -0.02 min
Lab File: VN053272.D
Acq: 3 Jan 2019 19:38

Instrument :
MSVOA_N
ClientSampleId :
AU-05-010219-A

Tgt Ion: 41 Resp: 14778
Ion Ratio Lower Upper
41 100
69 0.0 72.2 108.2#
39 0.0 41.9 62.9#

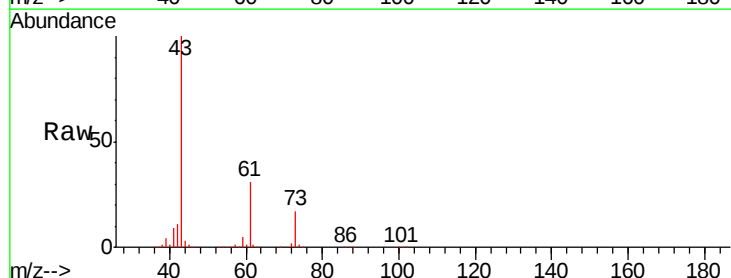


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

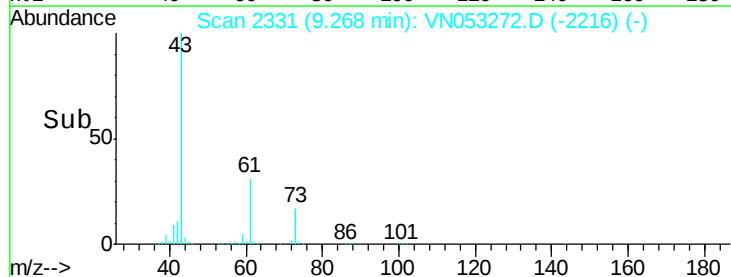
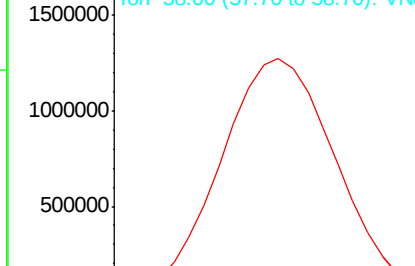


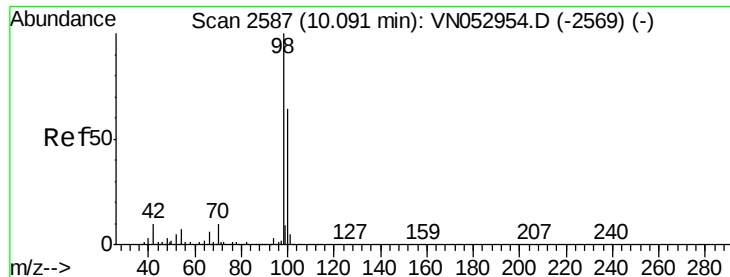
#49
1,4-Dioxane
Concen: 2.453 ug/l
RT: 9.27 min Scan# 2331
Delta R.T. 0.07 min
Lab File: VN053272.D
Acq: 3 Jan 2019 19:38

Tgt Ion: 88 Resp: 258
Ion Ratio Lower Upper
88 100
43 901570.5 26.6 40.0#
58 3951.6 58.4 87.6#



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: 2.453 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053272.D

Acq: 3 Jan 2019 19:38

Instrument :

MSVOA_N

ClientSampleId :

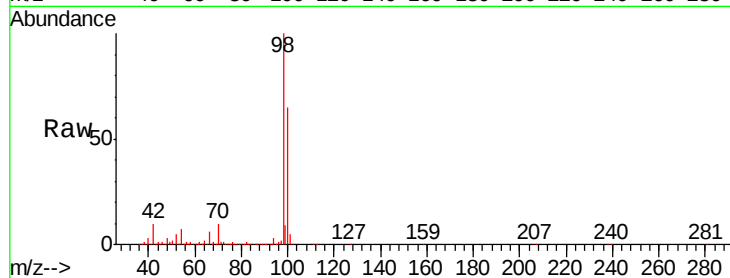
AU-05-010219-A

Tgt Ion: 98 Resp: 1966836

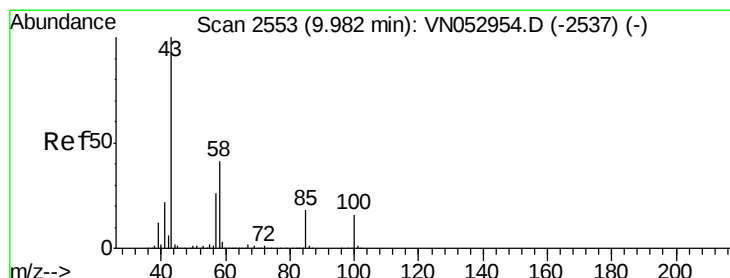
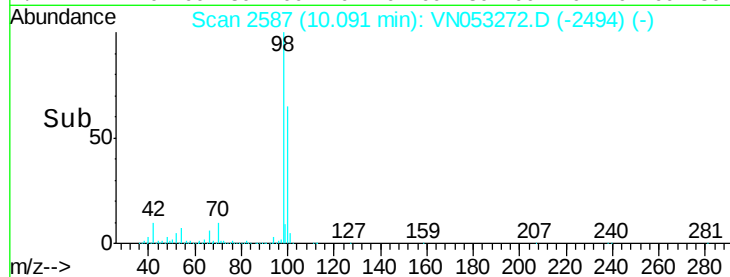
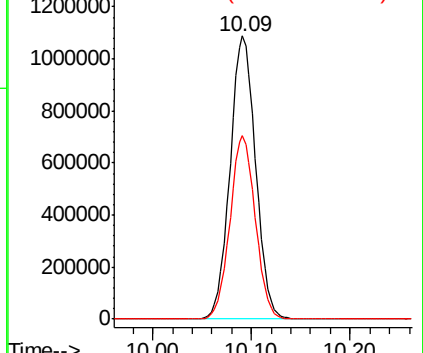
Ion Ratio Lower Upper

98 100

100 64.3 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN053272.D (-2494) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.718 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053272.D

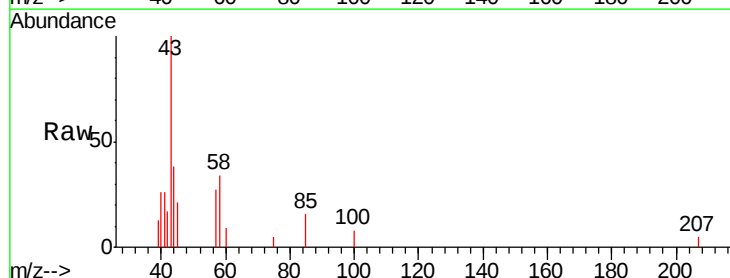
Acq: 3 Jan 2019 19:38

Tgt Ion: 43 Resp: 5953

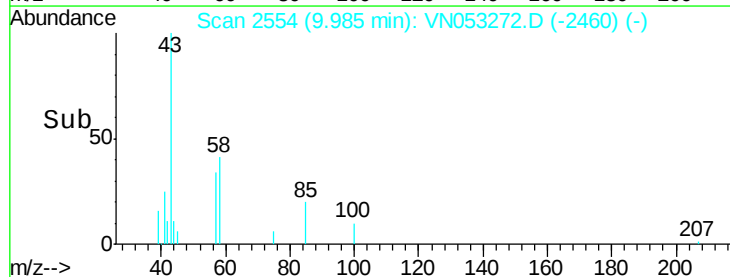
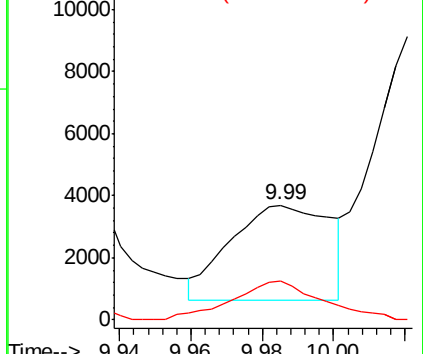
Ion Ratio Lower Upper

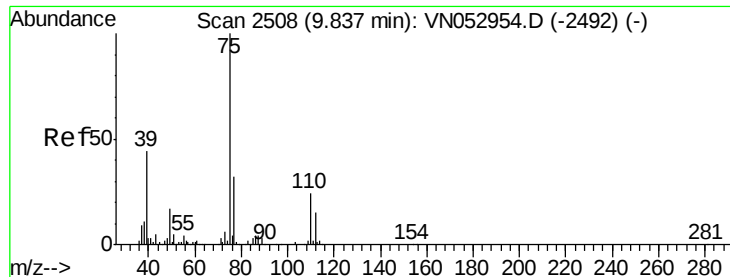
43 100

58 36.4 32.2 48.4



Abundance Ion 43.00 (42.70 to 43.70): VN053272.D (-2460) (-)





#54

cis-1,3-Dichloropropene

Concen: 5.699 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053272.D

Acq: 3 Jan 2019 19:38

Instrument :

MSVOA_N

ClientSampleId :

AU-05-010219-A

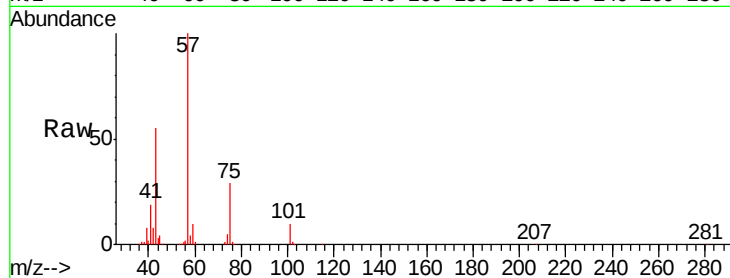
Tgt Ion: 75 Resp: 101283

Ion Ratio Lower Upper

75 100

77 0.6 25.8 38.8#

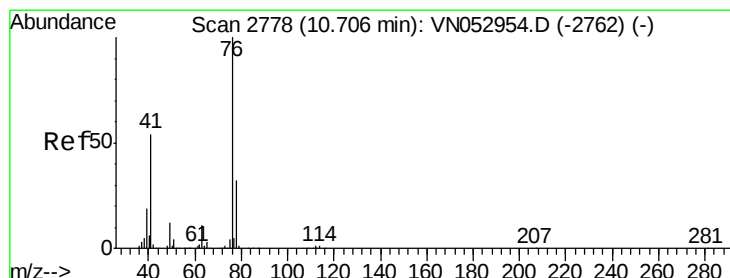
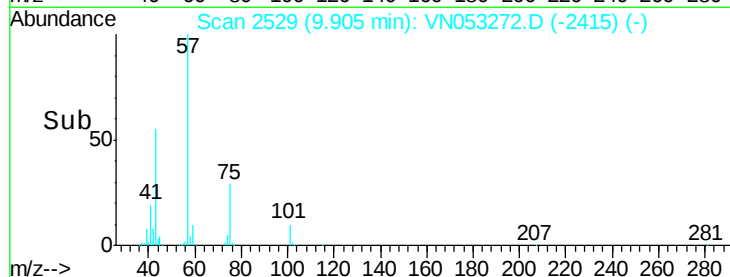
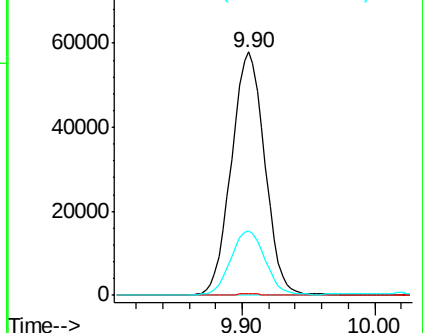
39 26.3 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane

Concen: 1.255 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.06 min

Lab File: VN053272.D

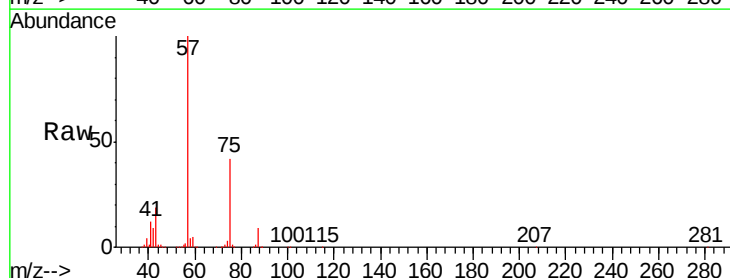
Acq: 3 Jan 2019 19:38

Tgt Ion: 76 Resp: 21248

Ion Ratio Lower Upper

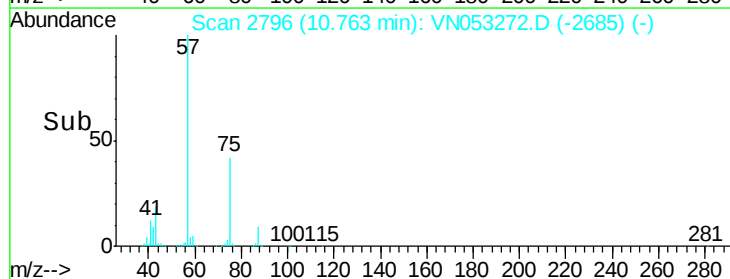
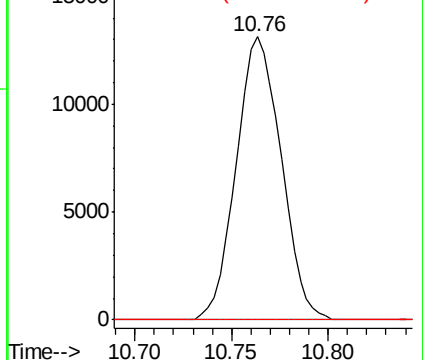
76 100

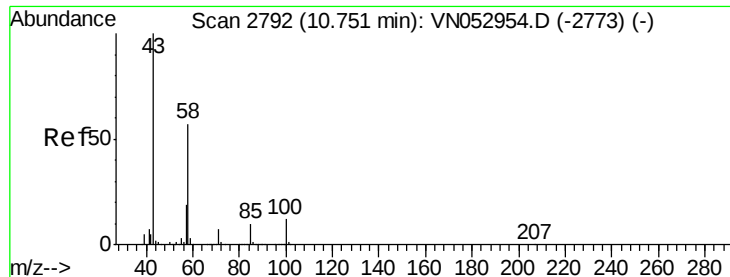
78 0.0 25.8 38.8#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

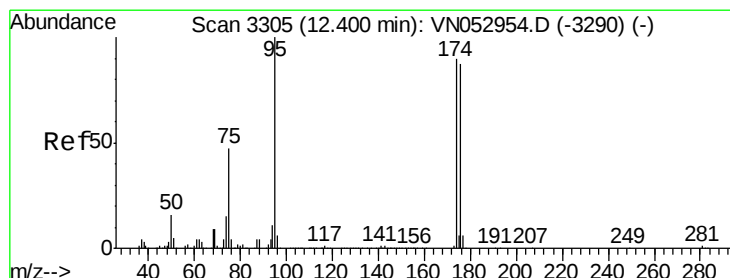
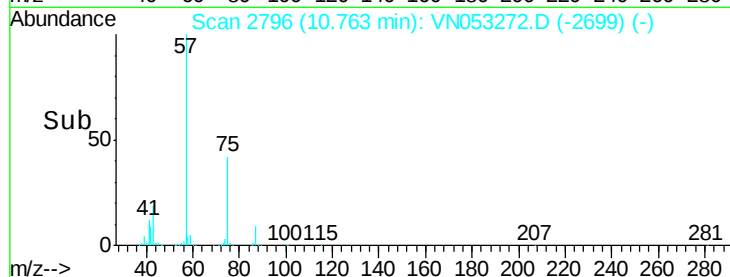
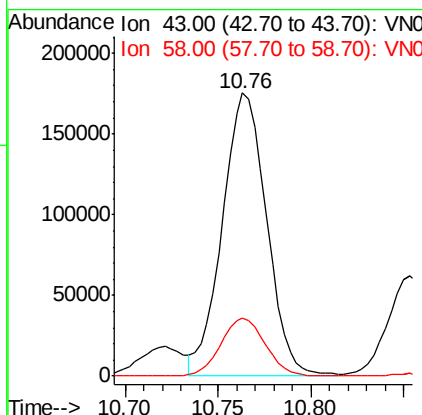
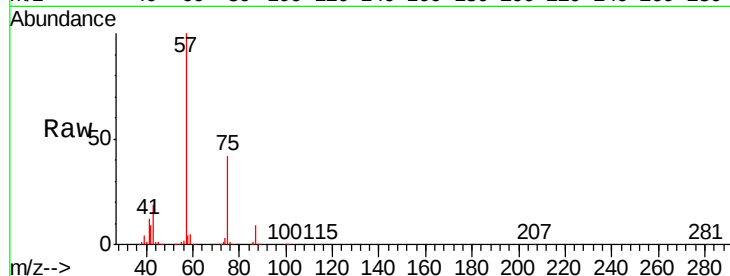




#59
2-Hexanone
Concen: 51.378 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN053272.D
Acq: 3 Jan 2019 19:38

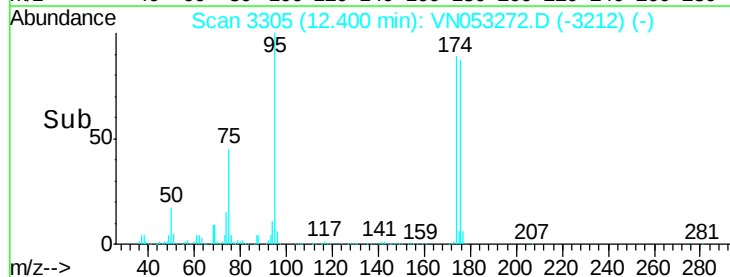
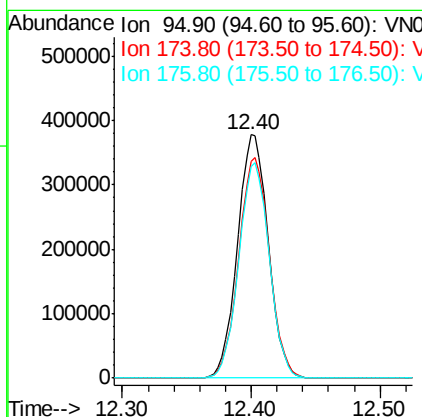
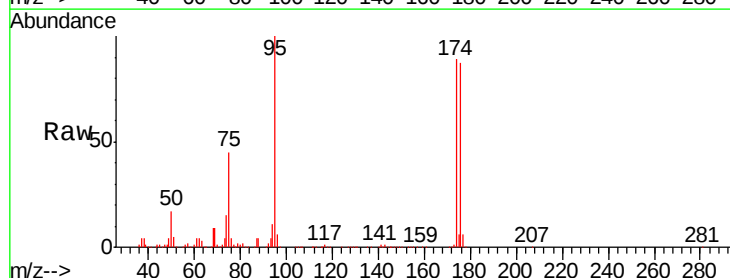
Instrument :
MSVOA_N
ClientSampleId :
AU-05-010219-A

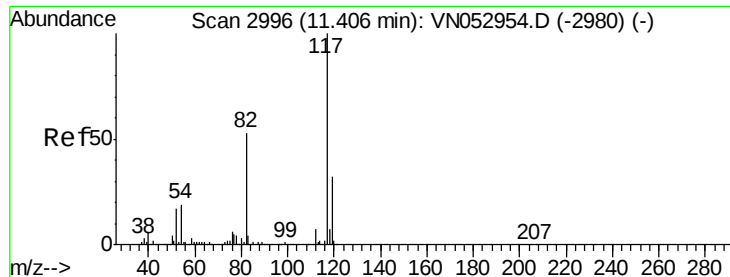
Tgt Ion: 43 Resp: 288405
Ion Ratio Lower Upper
43 100
58 20.9 28.1 84.3#



#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN053272.D
Acq: 3 Jan 2019 19:38

Tgt Ion: 95 Resp: 627506
Ion Ratio Lower Upper
95 100
174 90.2 0.0 178.8
176 87.3 0.0 173.8

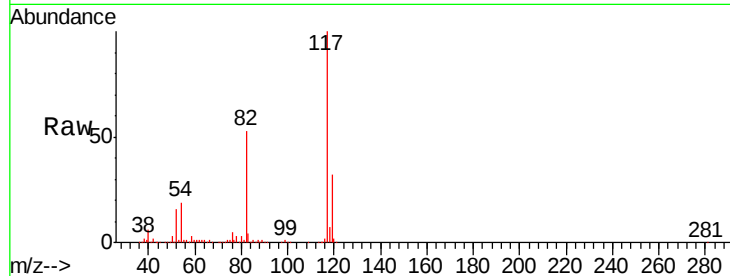




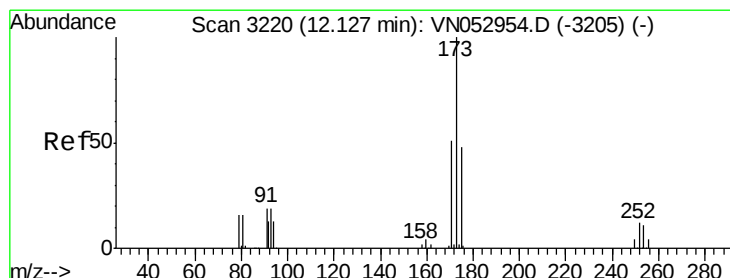
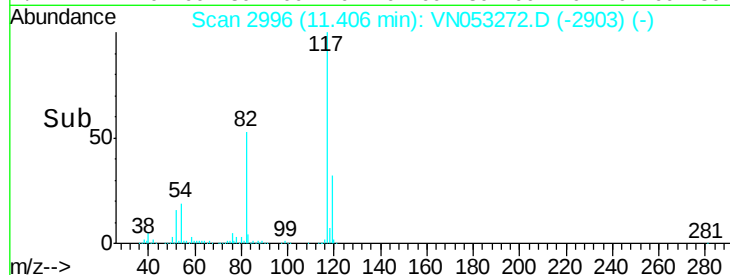
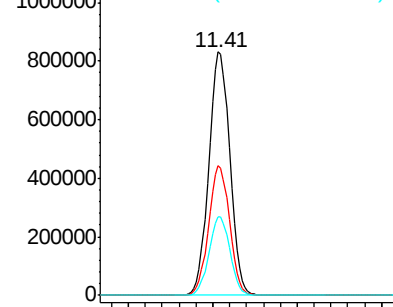
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053272.D
Acq: 3 Jan 2019 19:38

Instrument :
MSVOA_N
ClientSampleId :
AU-05-010219-A

Tgt Ion:117 Resp: 1438093
Ion Ratio Lower Upper
117 100
82 53.1 42.8 64.2
119 32.3 25.5 38.3

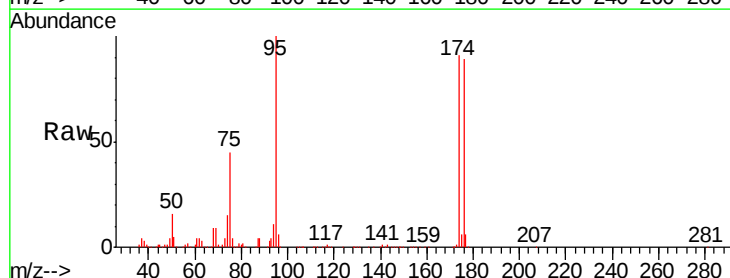


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

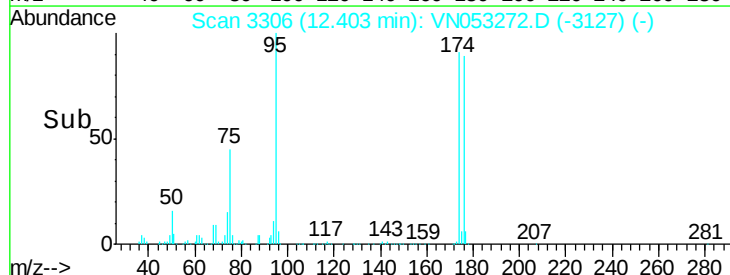
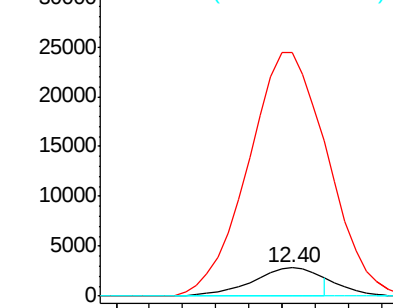


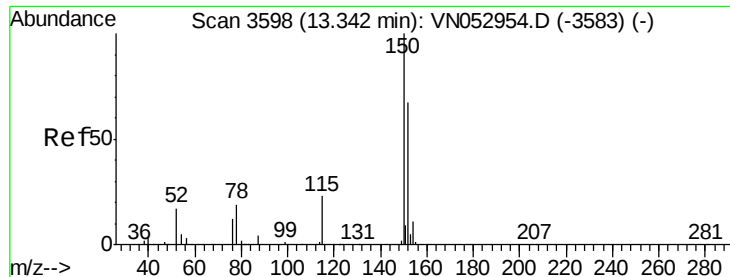
#71
Bromoform
Concen: 0.494 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.28 min
Lab File: VN053272.D
Acq: 3 Jan 2019 19:38

Tgt Ion:173 Resp: 3954
Ion Ratio Lower Upper
173 100
175 895.5 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: VN053272.D

Acq: 3 Jan 2019 19:38

Instrument :

MSVOA_N

ClientSampleId :

AU-05-010219-A

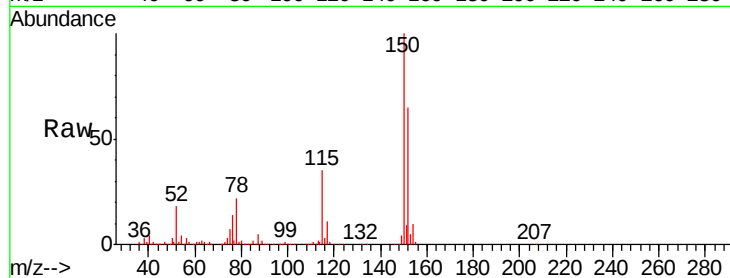
Tgt Ion:152 Resp: 532163

Ion Ratio Lower Upper

152 100

115 55.6 28.3 85.0

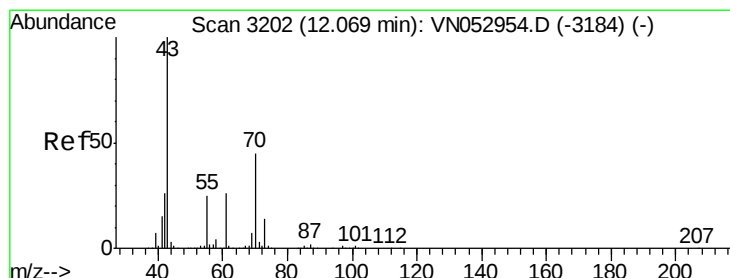
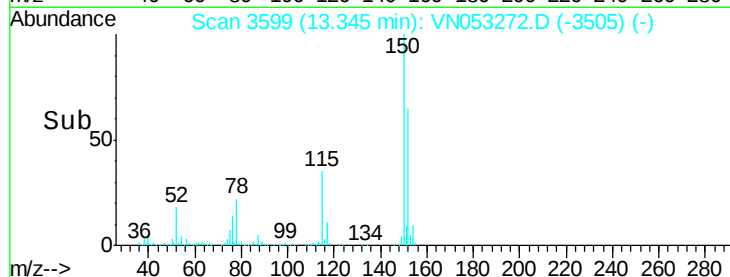
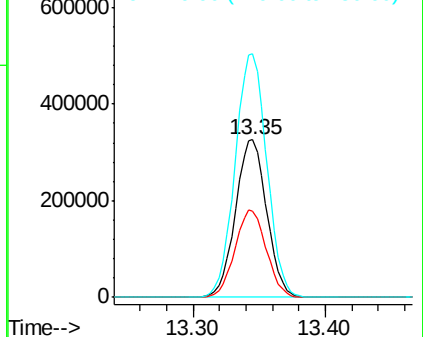
150 157.0 0.0 347.8



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-ethyl acetate

Concen: 0.245 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN053272.D

Acq: 3 Jan 2019 19:38

Tgt Ion: 43 Resp: 2835

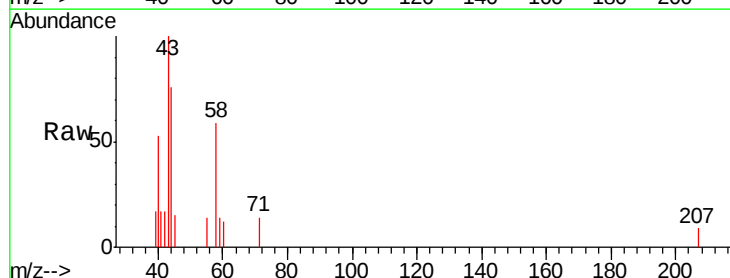
Ion Ratio Lower Upper

43 100

70 0.0 34.2 51.4#

55 6.4 20.3 30.5#

61 0.0 20.0 30.0#

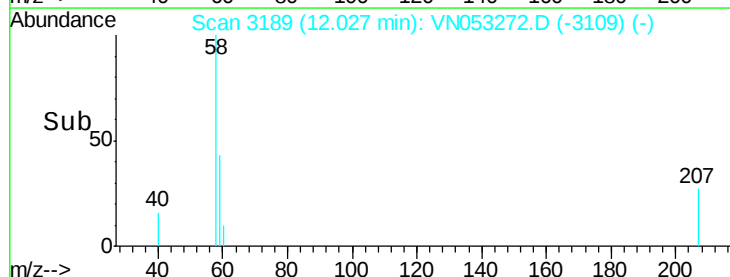
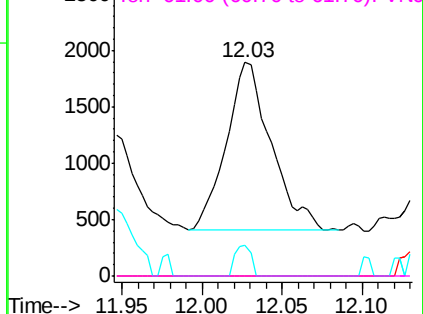


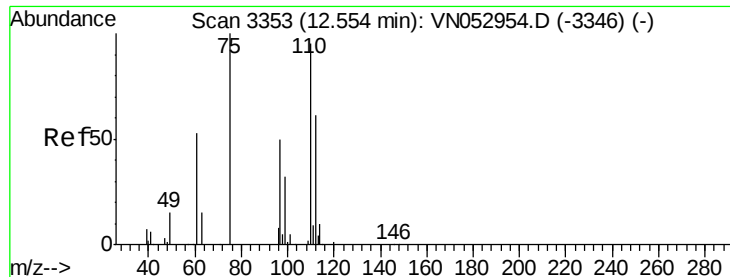
Abundance Ion 43.00 (42.70 to 43.70): V

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: 31.974 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053272.D

Acq: 3 Jan 2019 19:38

Instrument :

MSVOA_N

ClientSampleId :

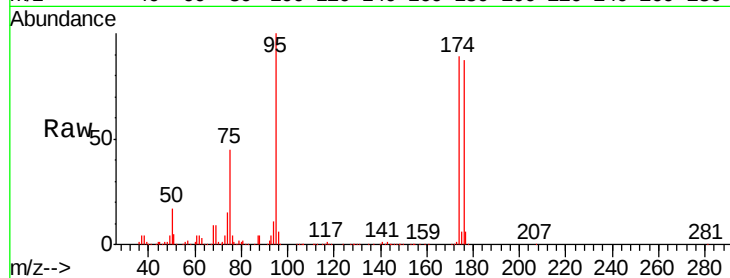
AU-05-010219-A

Tgt Ion: 75 Resp: 286435

Ion Ratio Lower Upper

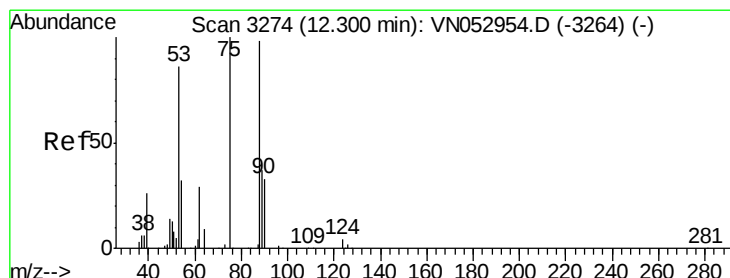
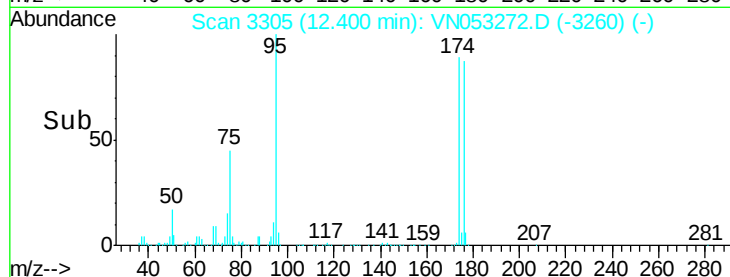
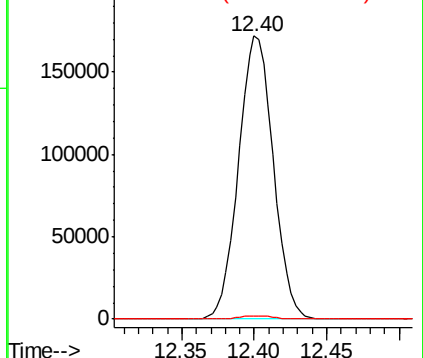
75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 103.055 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053272.D

Acq: 3 Jan 2019 19:38

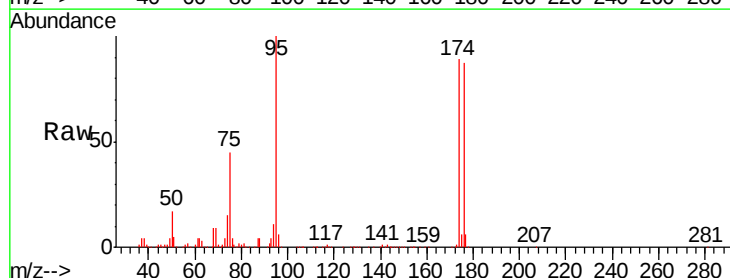
Tgt Ion: 75 Resp: 286435

Ion Ratio Lower Upper

75 100

53 0.0 74.7 112.1#

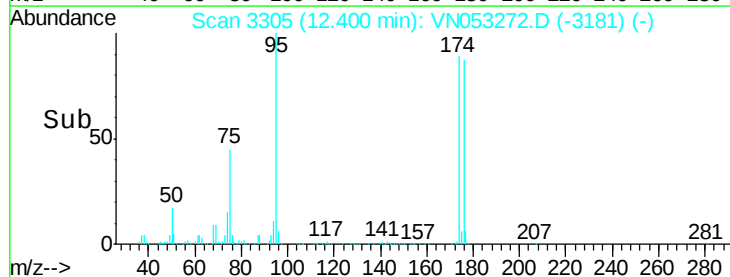
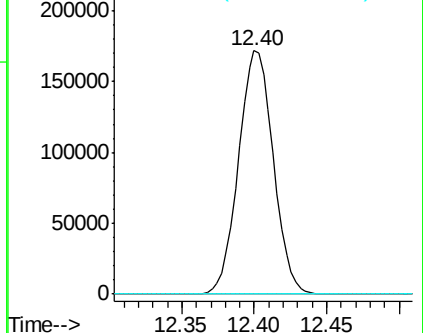
89 0.0 36.1 54.1#

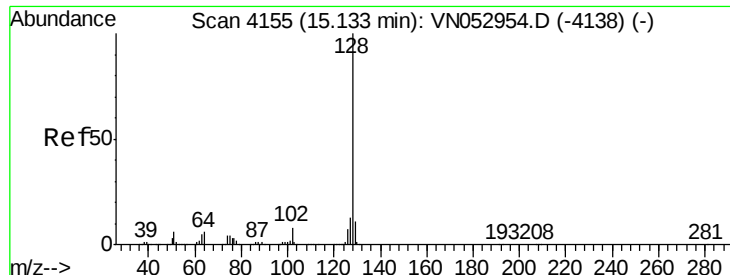


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: 1.391 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN053272.D

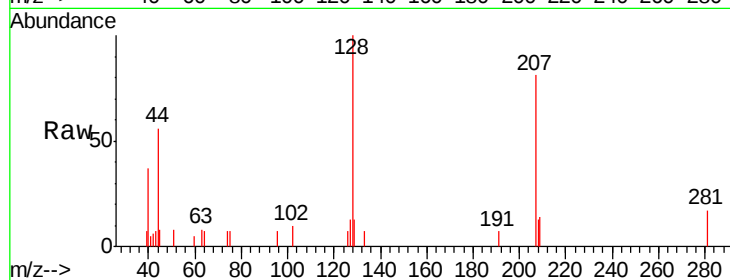
Acq: 3 Jan 2019 19:38

Instrument :

MSVOA_N

ClientSampleId :

AU-05-010219-A



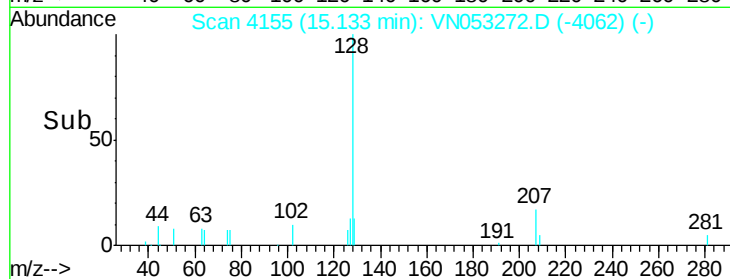
Tgt Ion:128 Resp: 5235

Ion Ratio Lower Upper

128 100

127 10.9 10.2 15.4

129 8.3 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

