

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN021919\
 Data File : VN053867.D
 Acq On : 19 Feb 2019 14:15
 Operator : JC/SP
 Sample : K1518-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 CABLE-BRIDGE-FOUNDATION-D-8

Quant Time: Feb 20 03:18:08 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	683847	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1100137	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1061120	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	449246	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	357832	52.16	ug/l	0.00
Spiked Amount			Recovery	=	104.32%	
35) Dibromofluoromethane	7.59	113	375387	54.00	ug/l	0.00
Spiked Amount			Recovery	=	108.00%	
50) Toluene-d8	10.09	98	1363668	52.25	ug/l	0.00
Spiked Amount			Recovery	=	104.50%	
62) 4-Bromofluorobenzene	12.40	95	492598	56.59	ug/l	0.00
Spiked Amount			Recovery	=	113.18%	

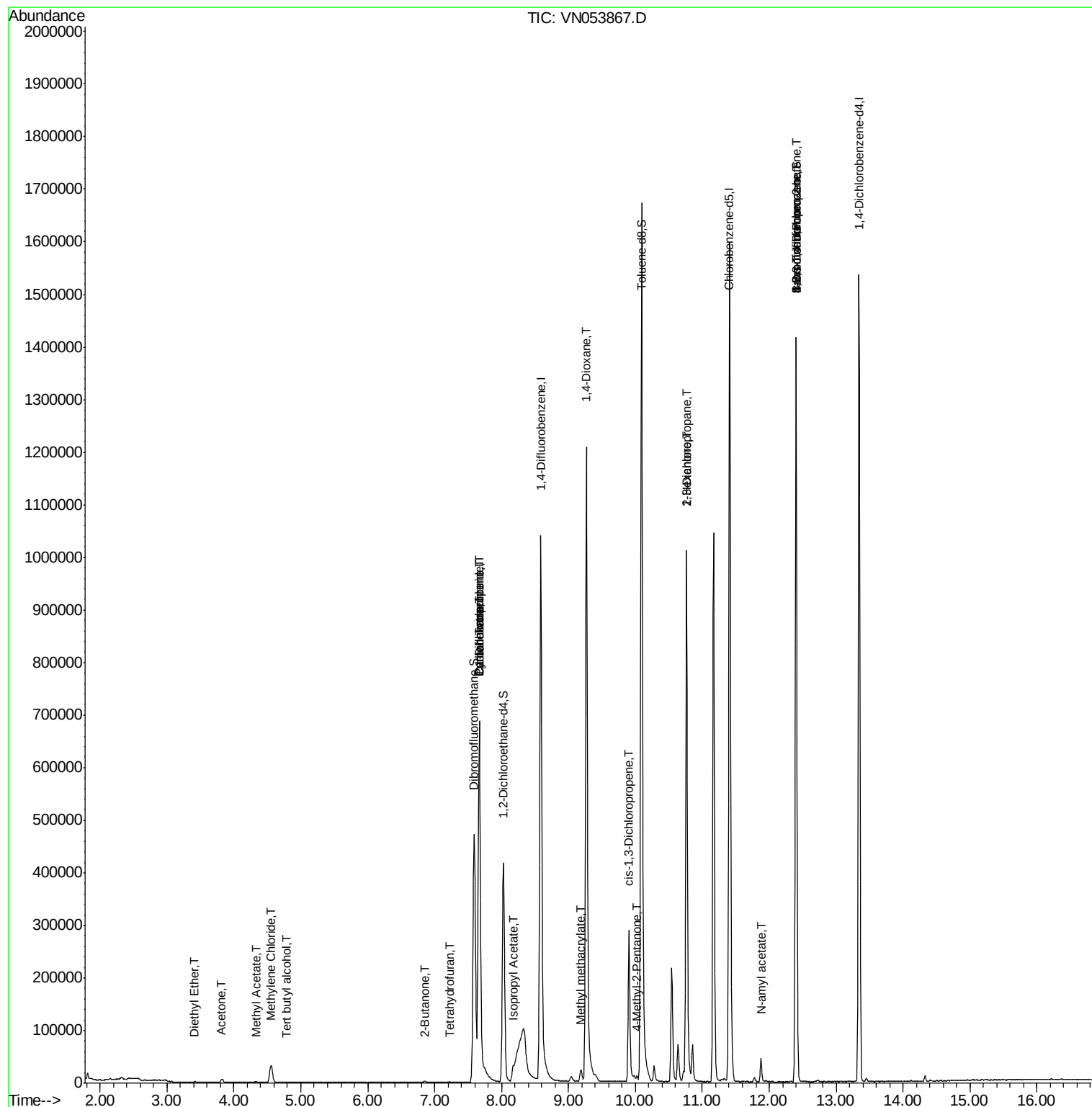
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.41	74	828	0.212	ug/l	61
11) Tert butyl alcohol	4.79	59	135	0.333	ug/l #	72
16) Acetone	3.82	43	11009	6.256	ug/l	98
18) Methyl Acetate	4.34	43	3185	0.611	ug/l #	53
20) Methylene Chloride	4.55	84	26579	3.600	ug/l	94
25) 2-Butanone	6.84	43	1891	0.753	ug/l #	82
29) Tetrahydrofuran	7.22	42	1605	0.996	ug/l #	52
31) Cyclohexane	7.66	56	9756	0.674	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	41156	4.150	ug/l #	49
38) Carbon Tetrachloride	7.66	117	55985	5.604	ug/l #	18
43) Isopropyl Acetate	8.17	43	25441	2.378	ug/l #	87
48) Methyl methacrylate	9.18	41	8541	1.673	ug/l #	12
49) 1,4-Dioxane	9.27	88	123	40.696	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	7812	1.486	ug/l #	34
54) cis-1,3-Dichloropropene	9.90	75	61578	5.293	ug/l #	61
57) 1,3-Dichloropropane	10.76	76	11581	1.036	ug/l #	43
59) 2-Hexanone	10.76	43	145549	40.789	ug/l #	51
71) Bromoform	12.40	173	3420	0.634	ug/l #	1
74) N-amyl acetate	11.88	43	13352	1.758	ug/l #	49
76) 1,2,3-Trichloropropane	12.40	75	224529	38.911	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	224529	109.415	ug/l #	15

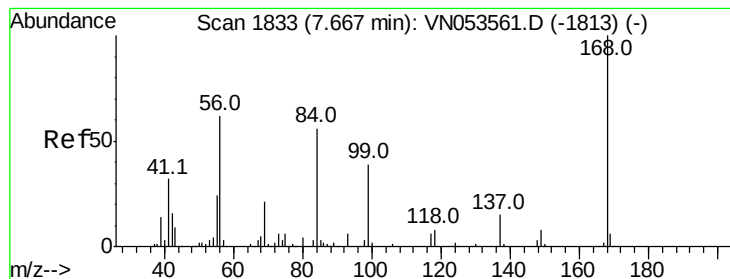
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN053867.D

Acq: 19 Feb 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

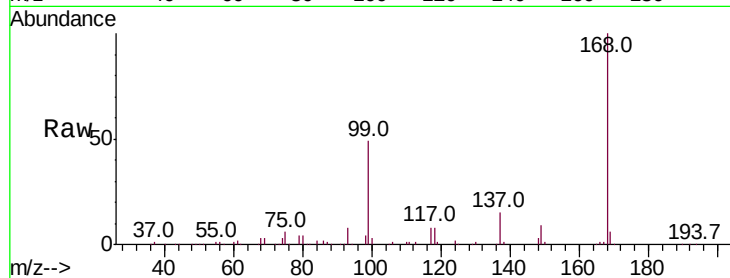
CABLE-BRIDGE-FOUNDATION-D-8

Tot Ion:168 Resp: 683847

Ion Ratio Lower Upper

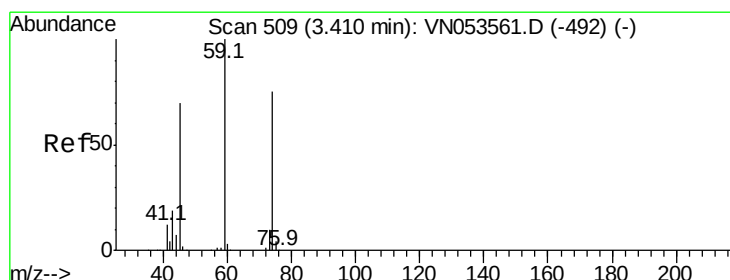
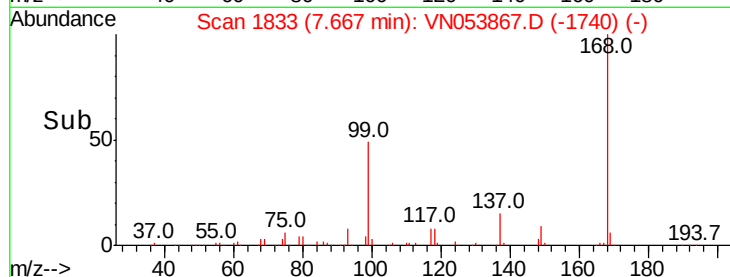
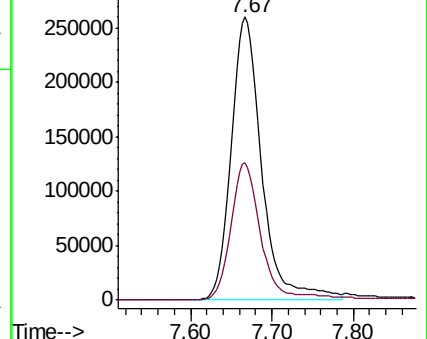
168 100

99 48.8 39.1 58.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#8

Diethyl Ether

Concen: 0.212 ug/l

RT: 3.41 min Scan# 509

Delta R.T. 0.00 min

Lab File: VN053867.D

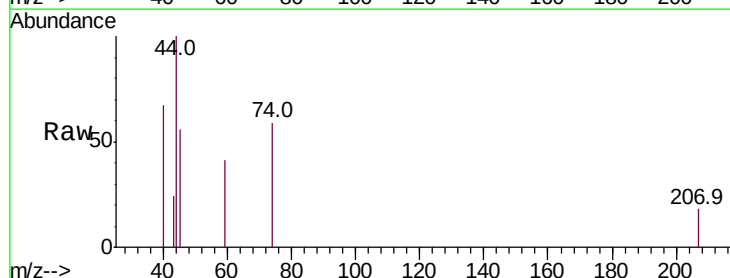
Acq: 19 Feb 2019 14:15

Tgt Ion: 74 Resp: 828

Ion Ratio Lower Upper

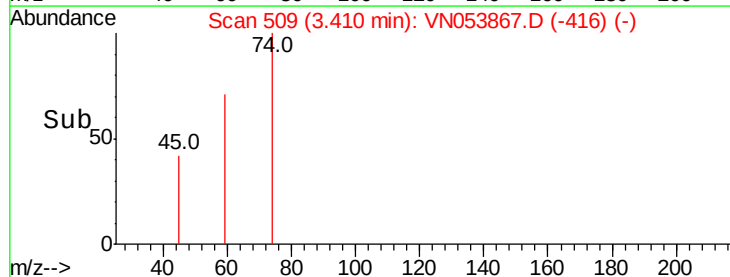
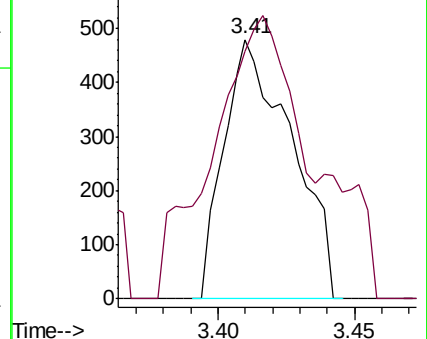
74 100

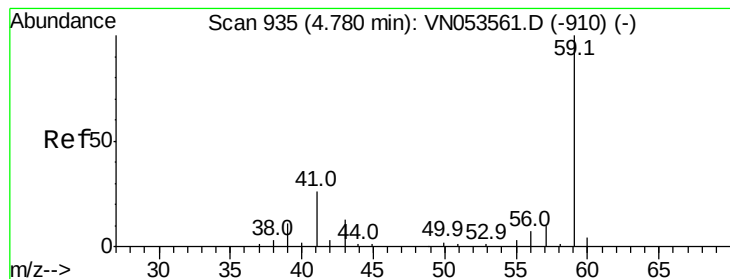
45 133.9 47.9 143.7



Abundance Ion 74.00 (73.70 to 74.70): VN

Ion 45.00 (44.70 to 45.70): VN



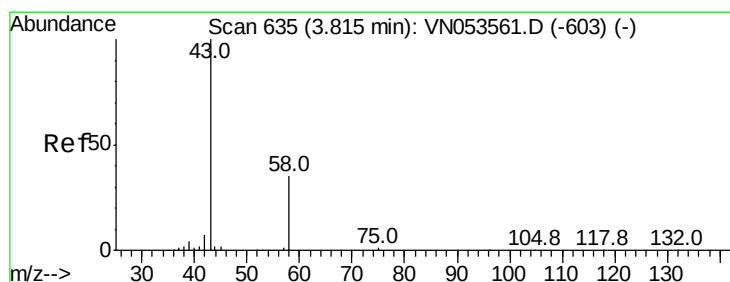
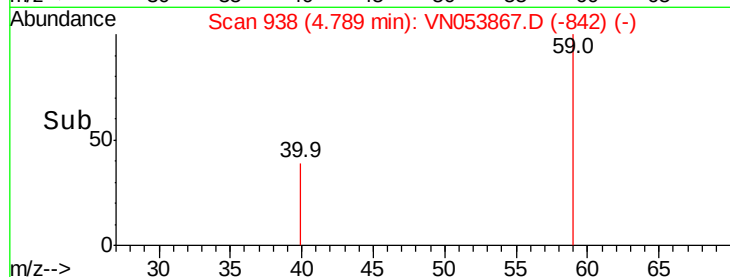
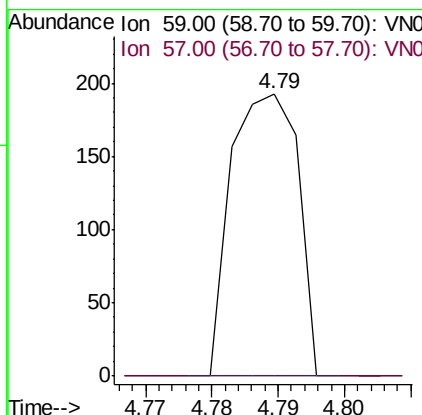
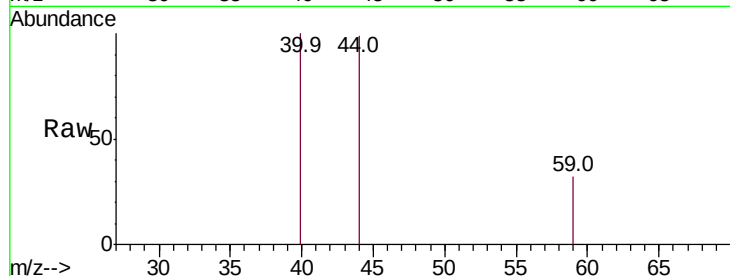


#11

Tert butyl alcohol
 Concen: 0.333 ug/l
 RT: 4.79 min Scan# 938
 Delta R.T. 0.01 min
 Lab File: VN053867.D
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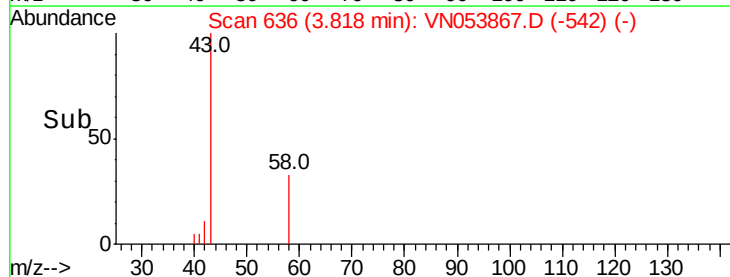
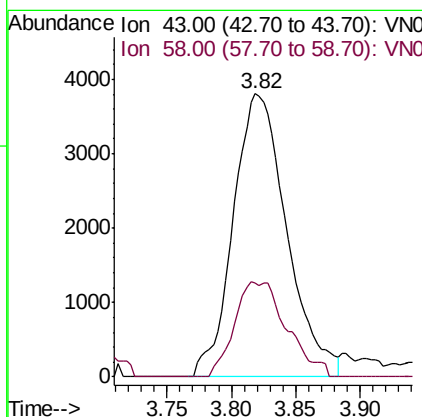
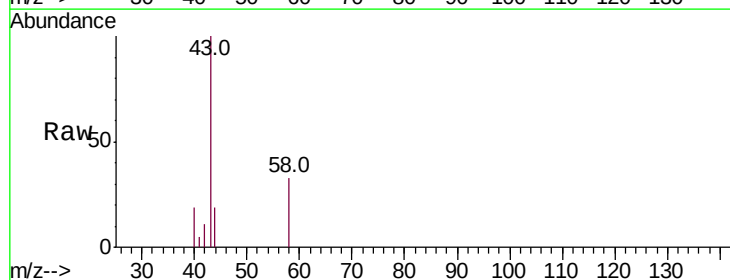
Tot Ion: 59 Resp: 135
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.2 12.4#

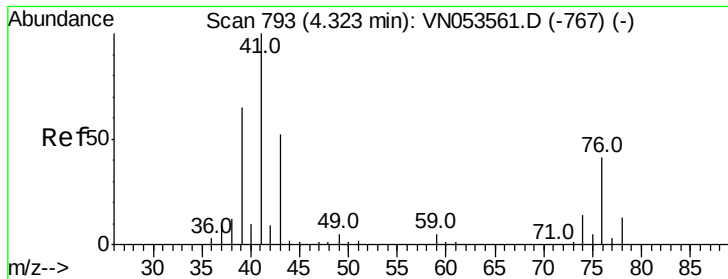


#16

Acetone
 Concen: 6.256 ug/l
 RT: 3.82 min Scan# 636
 Delta R.T. 0.00 min
 Lab File: VN053867.D
 Acq: 19 Feb 2019 14:15

Tgt Ion: 43 Resp: 11009
 Ion Ratio Lower Upper
 43 100
 58 33.0 27.1 40.7





#18

Methyl Acetate

Concen: 0.611 ug/l

RT: 4.34 min Scan# 799

Delta R.T. 0.02 min

Lab File: VN053867.D

Acq: 19 Feb 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

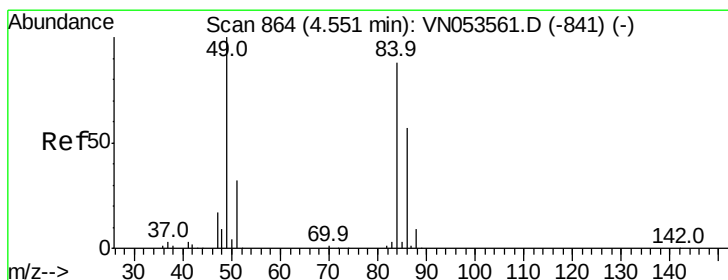
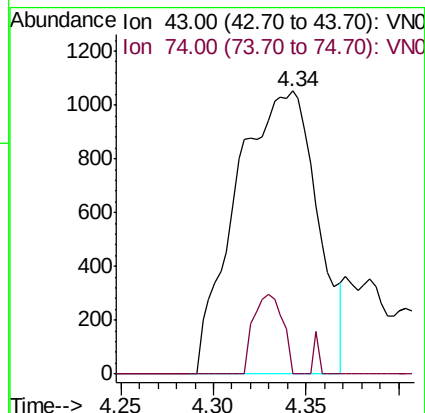
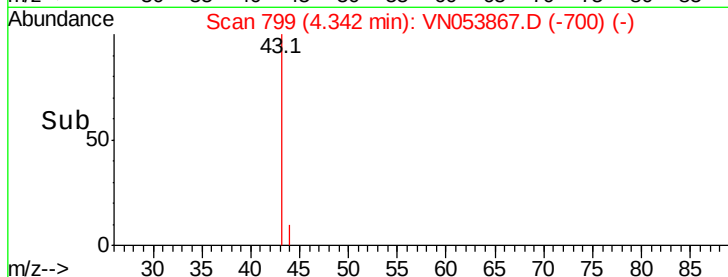
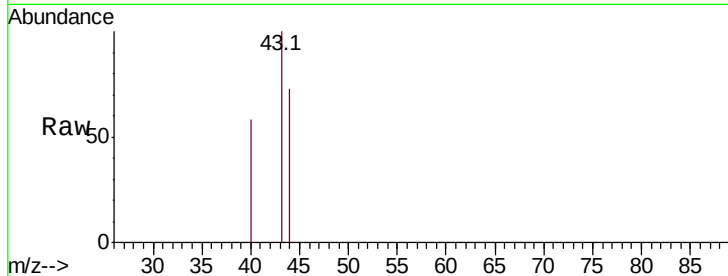
CABLE-BRIDGE-FOUNDATION-D-8

Tot Ion: 43 Resp: 3185

Ion Ratio Lower Upper

43 100

74 0.9 19.4 29.2#



#20

Methylene Chloride

Concen: 3.600 ug/l

RT: 4.55 min Scan# 865

Delta R.T. 0.00 min

Lab File: VN053867.D

Acq: 19 Feb 2019 14:15

Tgt Ion: 84 Resp: 26579

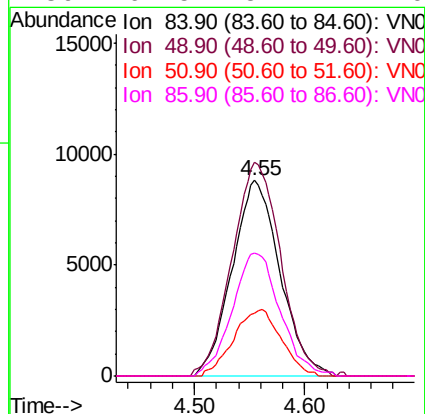
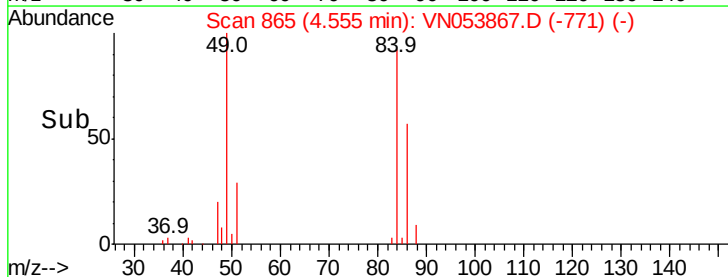
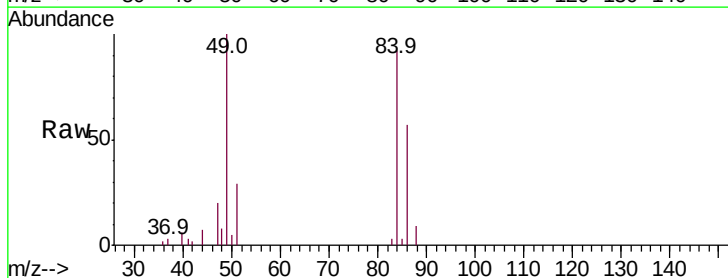
Ion Ratio Lower Upper

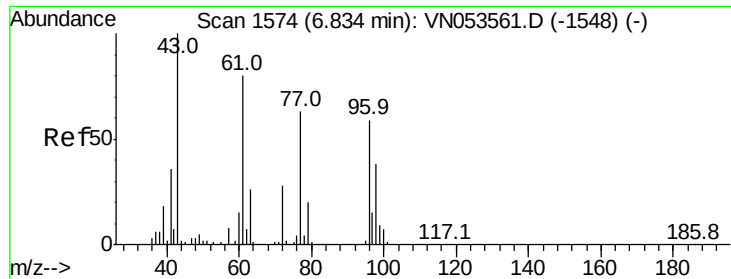
84 100

49 109.2 94.3 141.5

51 32.0 29.4 44.2

86 62.5 51.4 77.0

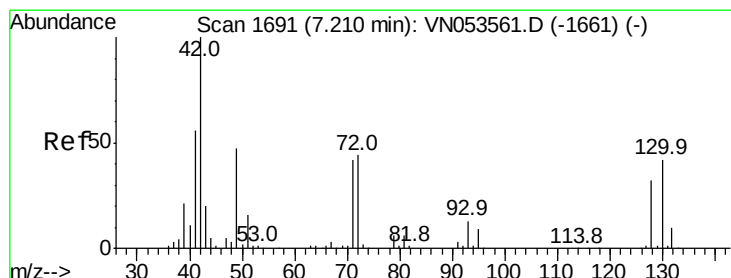
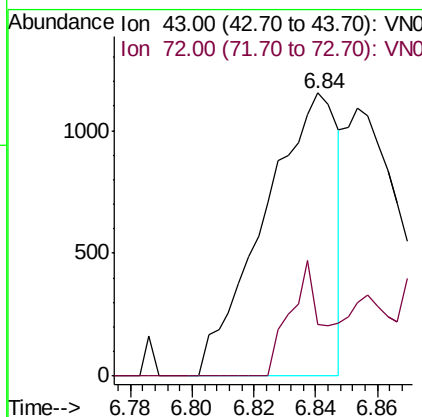
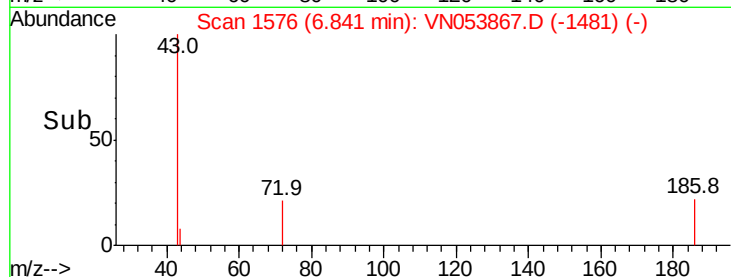
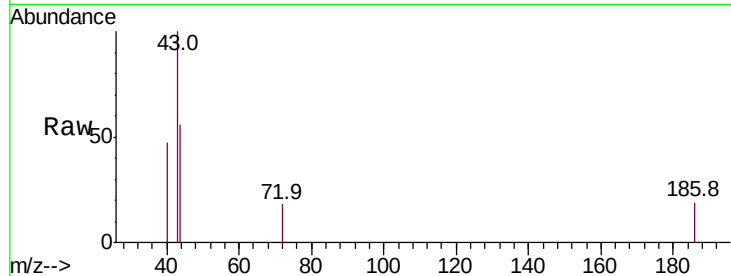




#25
2-Butanone
Concen: 0.753 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.01 min
Lab File: VN053867.D
Acq: 19 Feb 2019 14:15

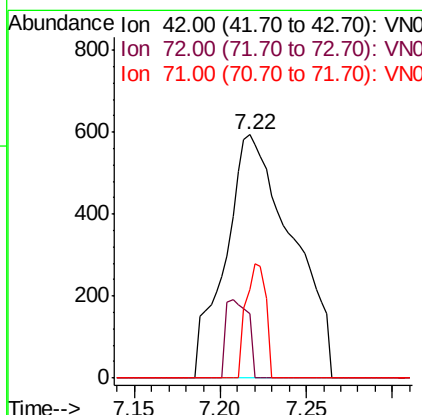
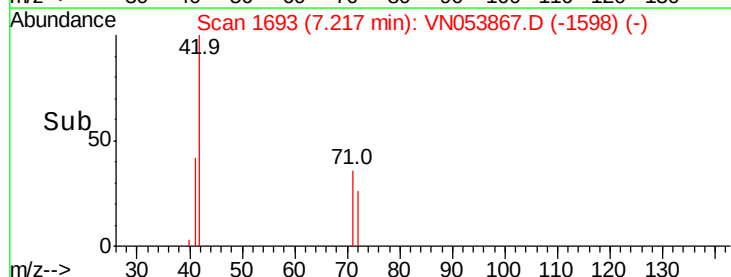
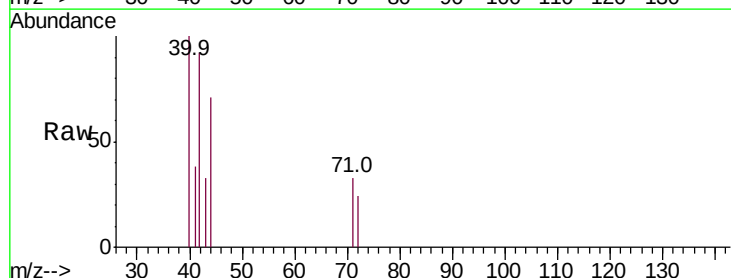
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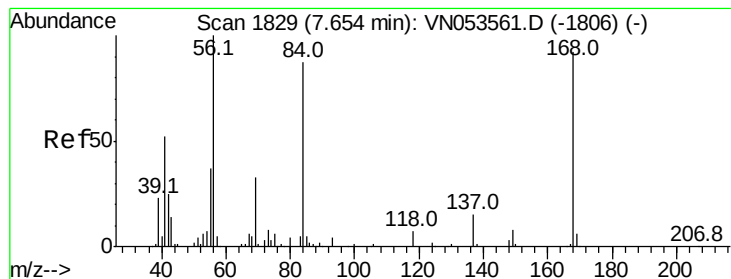
Tot Ion: 43 Resp: 1891
Ion Ratio Lower Upper
43 100
72 18.3 22.0 33.0#



#29
Tetrahydrofuran
Concen: 0.996 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. 0.01 min
Lab File: VN053867.D
Acq: 19 Feb 2019 14:15

Tgt Ion: 42 Resp: 1605
Ion Ratio Lower Upper
42 100
72 10.7 35.2 52.8#
71 13.6 33.0 49.4#





#31

Cyclohexane

Concen: 0.674 ug/l

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

Lab File: VN053867.D

Acq: 19 Feb 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

CABLE-BRIDGE-FOUNDATION-D-8

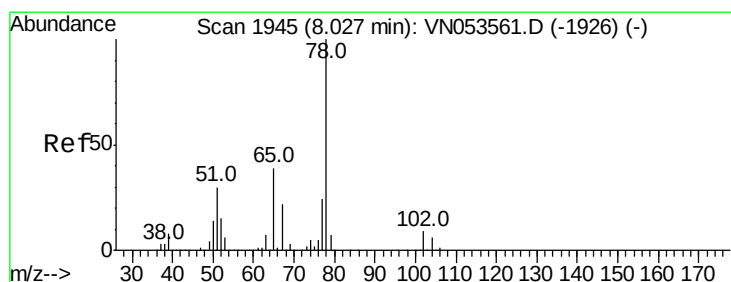
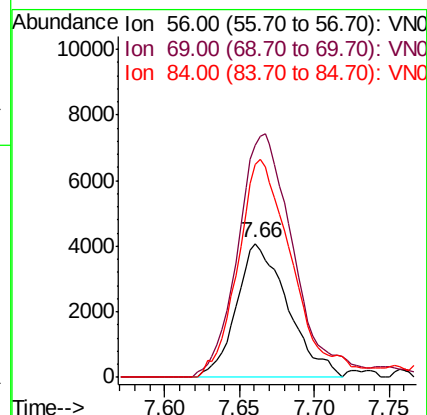
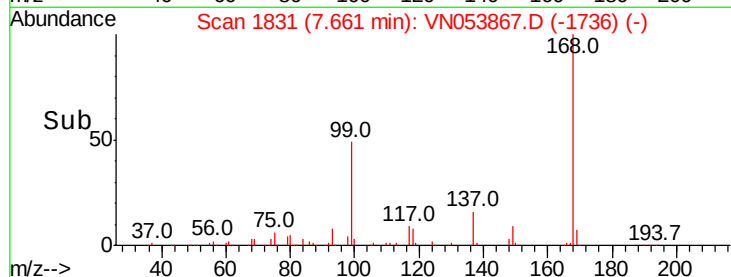
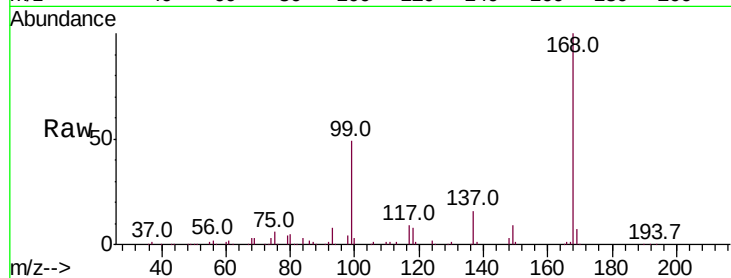
Tot Ion: 56 Resp: 9756

Ion Ratio Lower Upper

56 100

69 173.4 26.4 39.6#

84 158.4 67.9 101.9#



#33

1,2-Dichloroethane-d4

Concen: 52.160 ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN053867.D

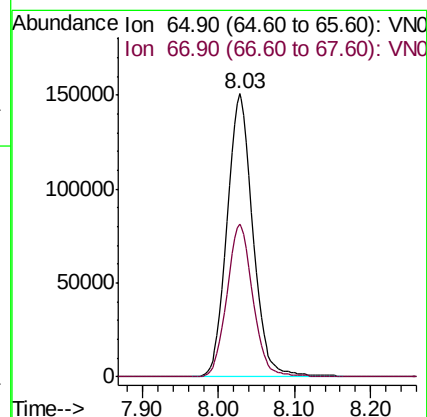
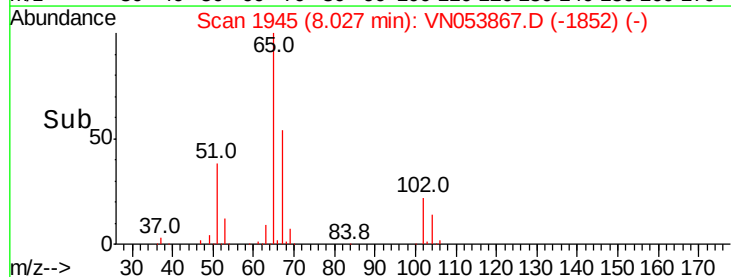
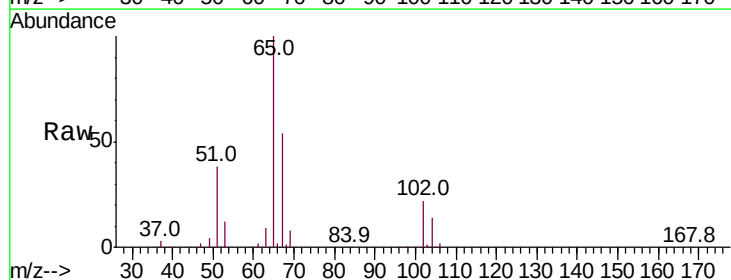
Acq: 19 Feb 2019 14:15

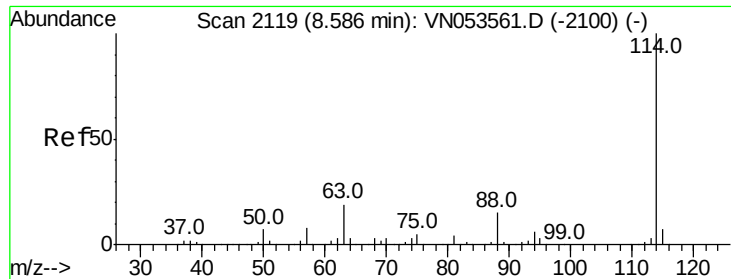
Tgt Ion: 65 Resp: 357832

Ion Ratio Lower Upper

65 100

67 54.3 0.0 111.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053867.D

Acq: 19 Feb 2019 14:15

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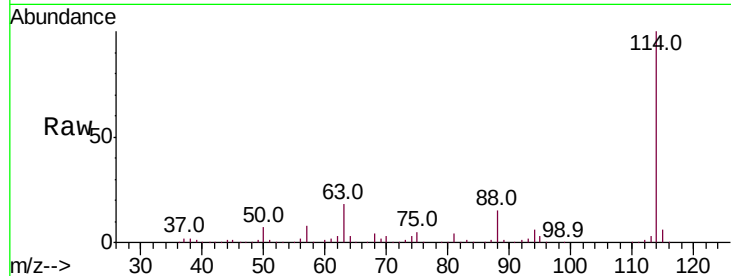
Tot Ion:114 Resp: 1100137

Ion Ratio Lower Upper

114 100

63 18.4 0.0 38.6

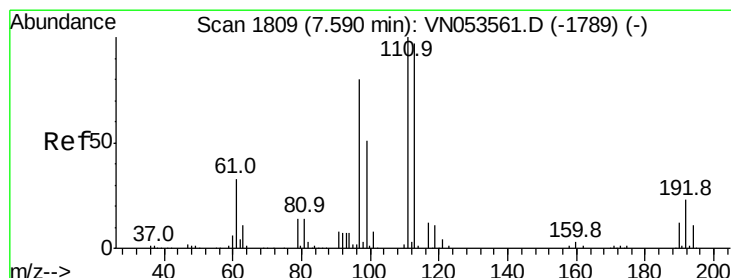
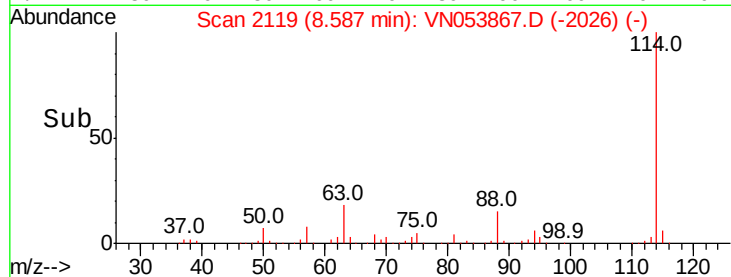
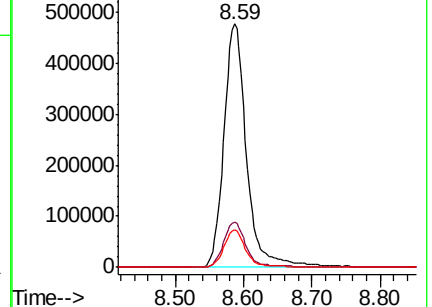
88 15.2 0.0 30.4



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 54.001 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. 0.00 min

Lab File: VN053867.D

Acq: 19 Feb 2019 14:15

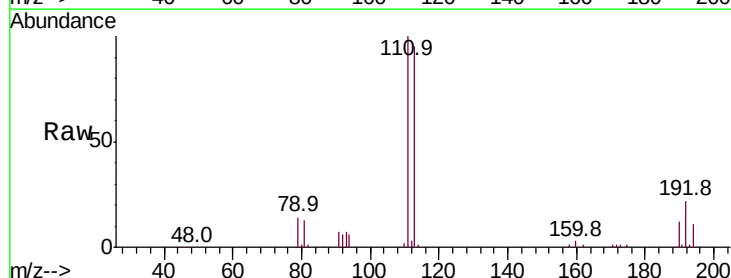
Tgt Ion:113 Resp: 375387

Ion Ratio Lower Upper

113 100

111 103.8 81.1 121.7

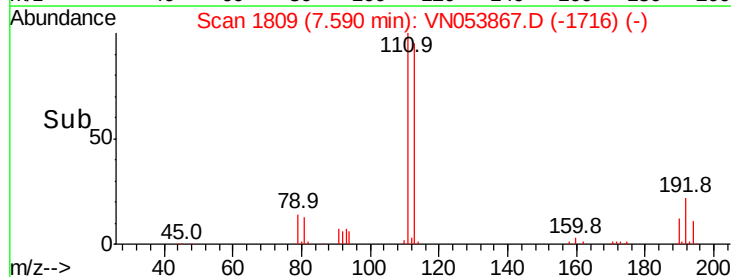
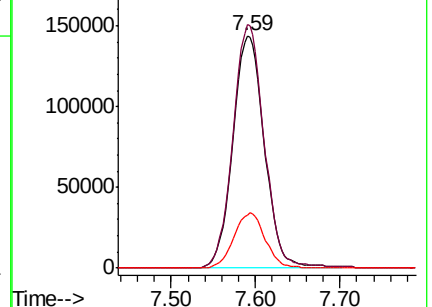
192 23.6 18.2 27.2

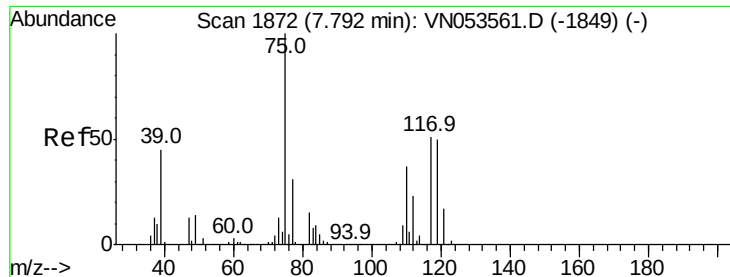


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

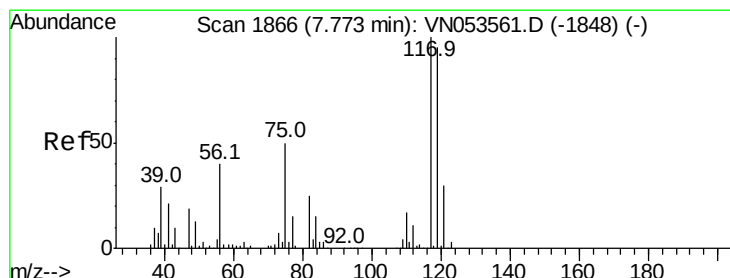
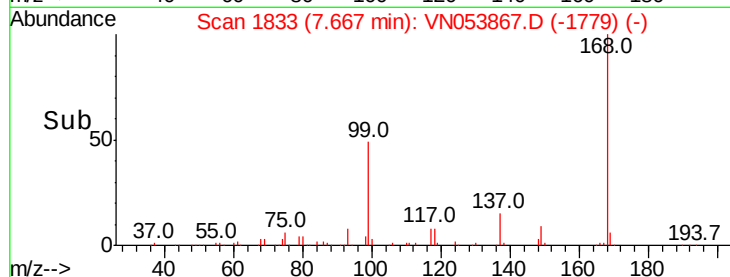
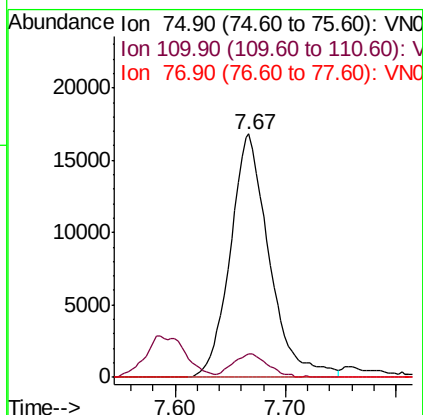
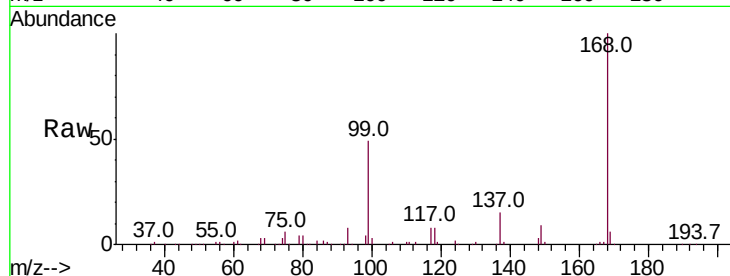




#36
 1,1-Dichloropropene
 Concen: 4.150 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN053867.D
 Acq: 19 Feb 2019 14:15

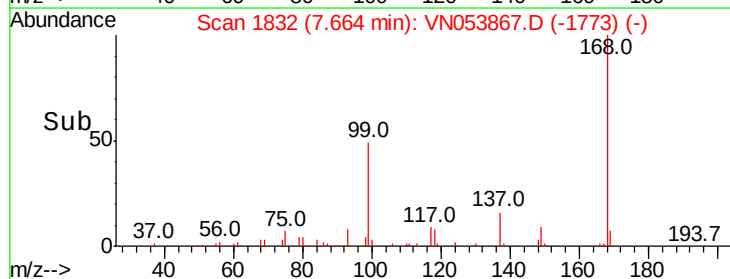
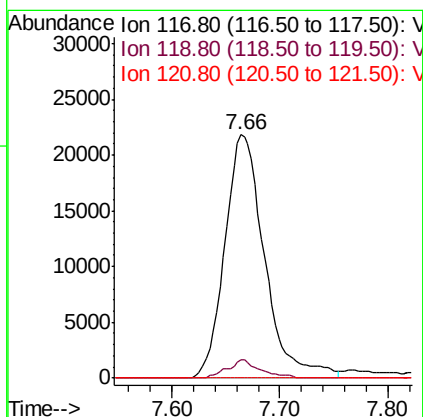
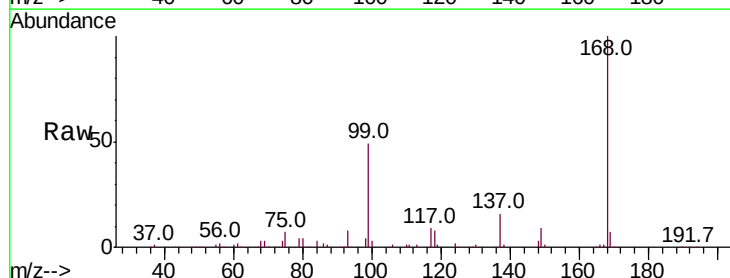
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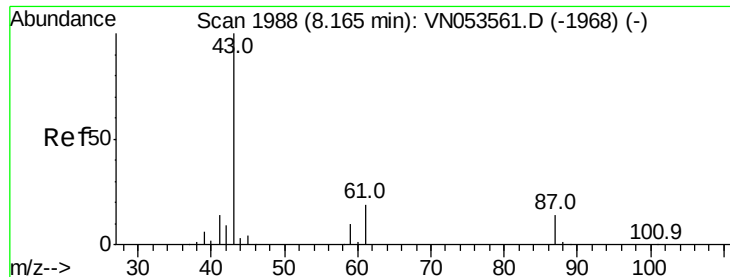
Tot Ion: 75 Resp: 41156
 Ion Ratio Lower Upper
 75 100
 110 8.7 18.1 54.3#
 77 0.0 25.1 37.7#



#38
 Carbon Tetrachloride
 Concen: 5.604 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.11 min
 Lab File: VN053867.D
 Acq: 19 Feb 2019 14:15

Tgt Ion: 117 Resp: 55985
 Ion Ratio Lower Upper
 117 100
 119 7.8 77.2 115.8#
 121 0.0 24.6 37.0#





#43

Isopropyl Acetate

Concen: 2.378 ug/l

RT: 8.17 min Scan# 1990

Delta R.T. 0.01 min

Lab File: VN053867.D

Acq: 19 Feb 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

CABLE-BRIDGE-FOUNDATION-D-8

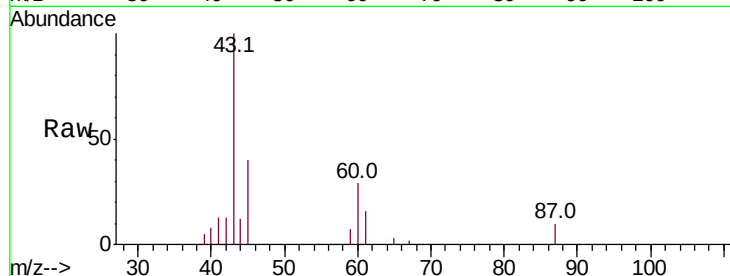
Tot Ion: 43 Resp: 25441

Ion Ratio Lower Upper

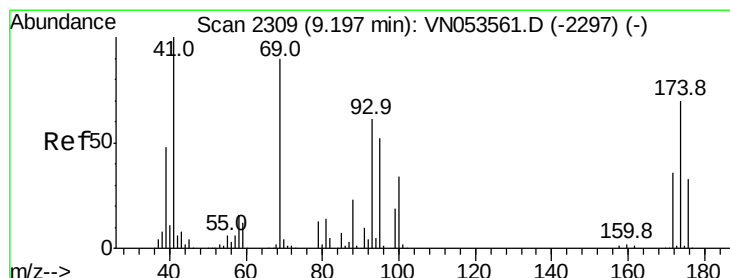
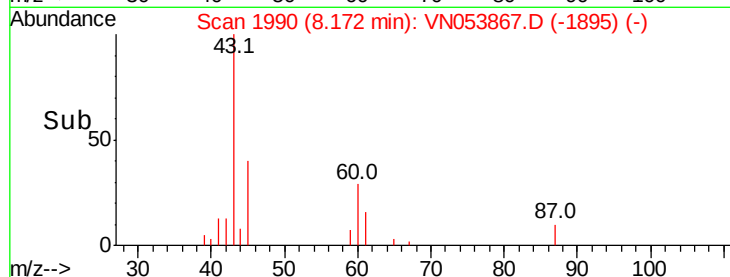
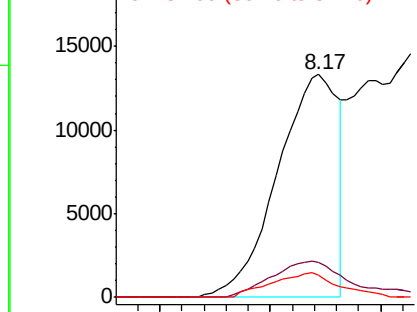
43 100

61 21.0 23.9 35.9#

87 12.2 11.0 16.6



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO



#48

Methyl methacrylate

Concen: 1.673 ug/l

RT: 9.18 min Scan# 2304

Delta R.T. -0.02 min

Lab File: VN053867.D

Acq: 19 Feb 2019 14:15

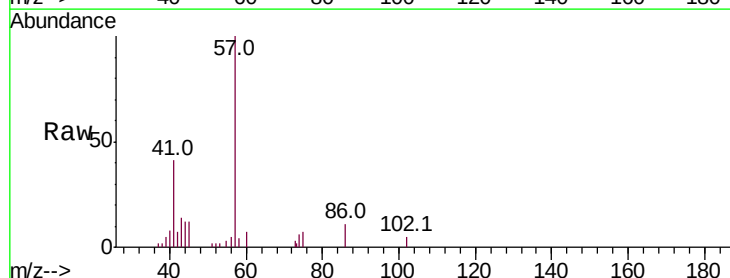
Tgt Ion: 41 Resp: 8541

Ion Ratio Lower Upper

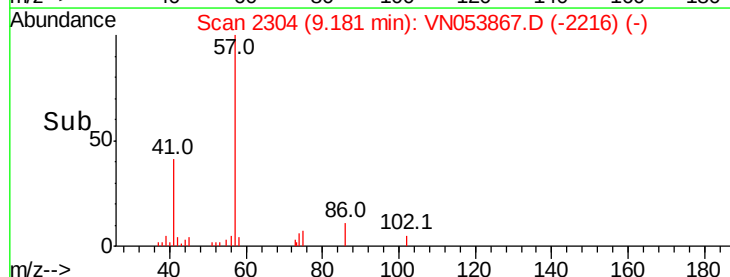
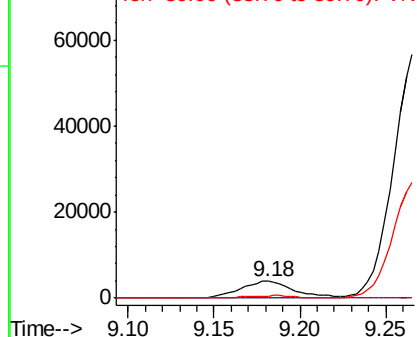
41 100

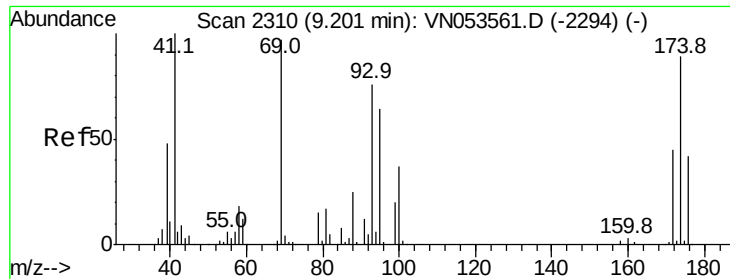
69 0.0 73.8 110.6#

39 0.0 40.0 60.0#



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





#49

1,4-Dioxane

Concen: 40.696 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.07 min

Lab File: VN053867.D

Acq: 19 Feb 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

CABLE-BRIDGE-FOUNDATION-D-8

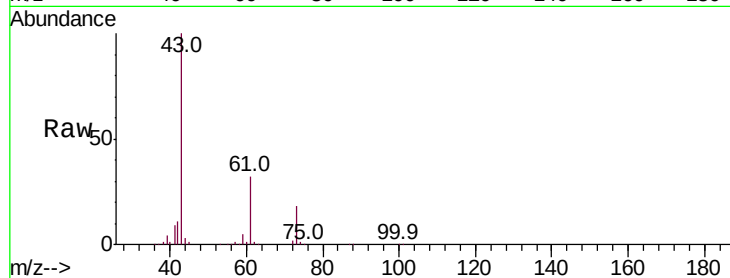
Tot Ion: 88 Resp: 123

Ion Ratio Lower Upper

88 100

43 1060039.0 27.8 41.6#

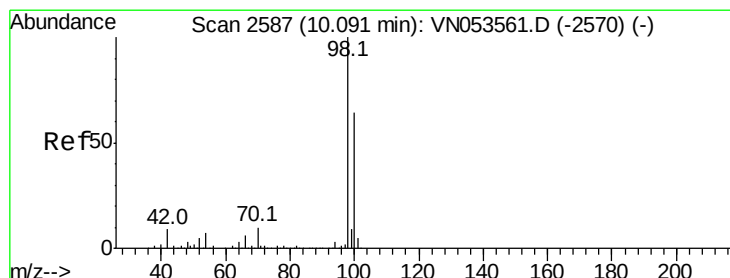
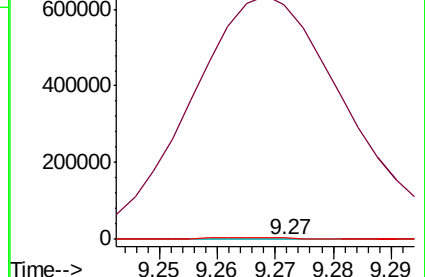
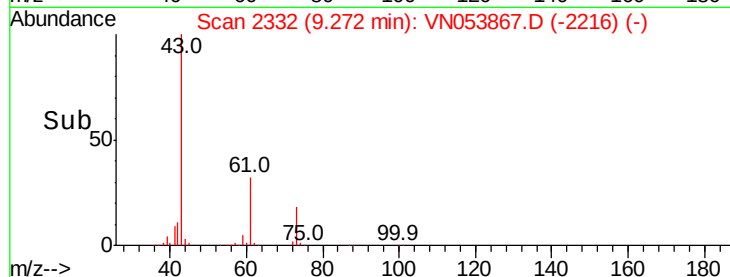
58 5647.2 56.5 84.7#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 52.245 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN053867.D

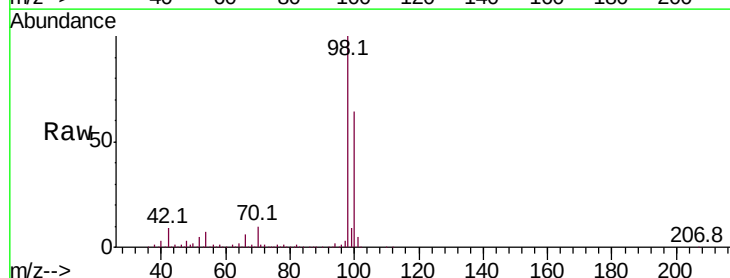
Acq: 19 Feb 2019 14:15

Tgt Ion: 98 Resp: 1363668

Ion Ratio Lower Upper

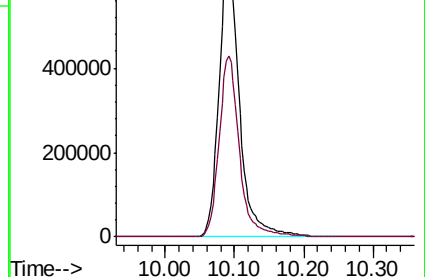
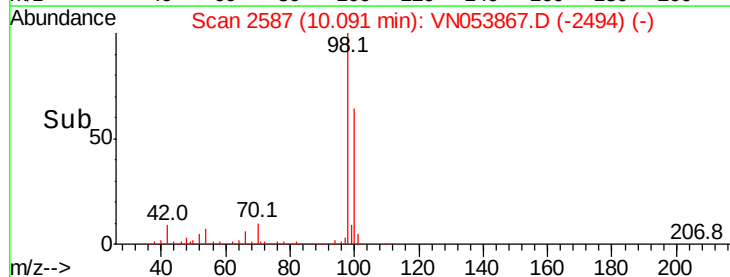
98 100

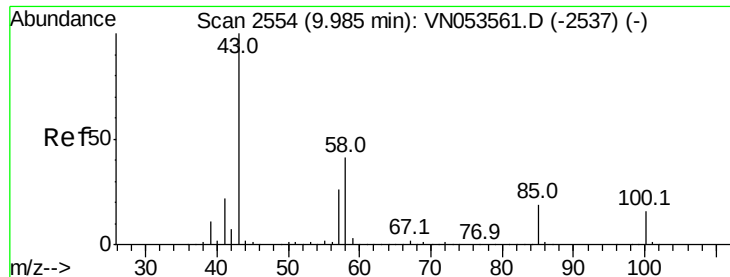
100 64.0 51.4 77.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 1.486 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN053867.D

Acq: 19 Feb 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

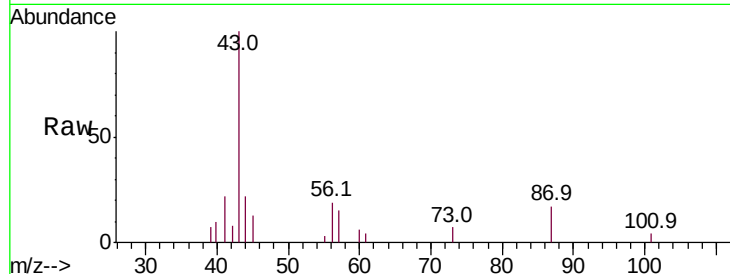
CABLE-BRIDGE-FOUNDATION-D-8

Tot Ion: 43 Resp: 7812

Ion Ratio Lower Upper

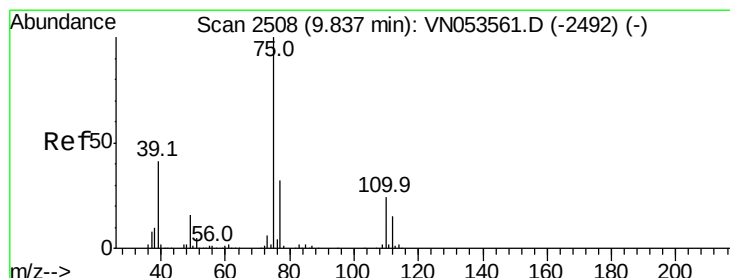
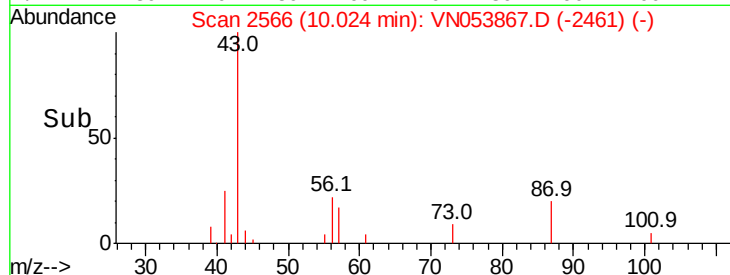
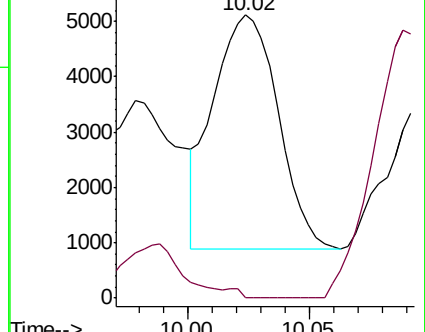
43 100

58 0.0 32.8 49.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.293 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.07 min

Lab File: VN053867.D

Acq: 19 Feb 2019 14:15

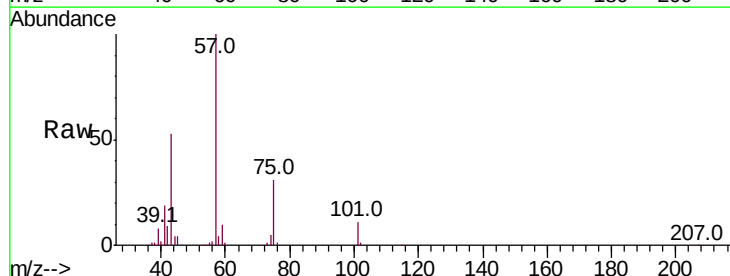
Tgt Ion: 75 Resp: 61578

Ion Ratio Lower Upper

75 100

77 0.0 25.8 38.6#

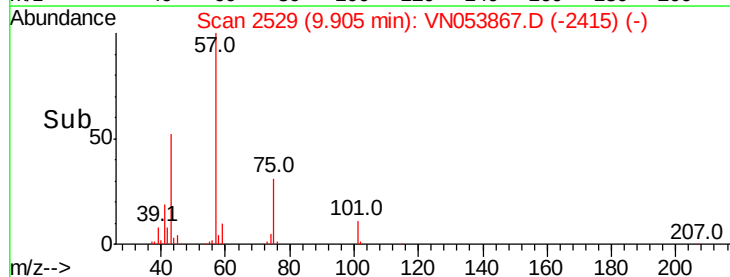
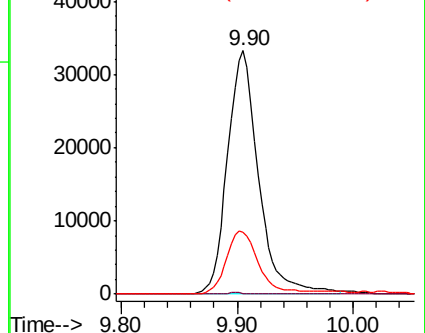
39 25.6 33.4 50.0#

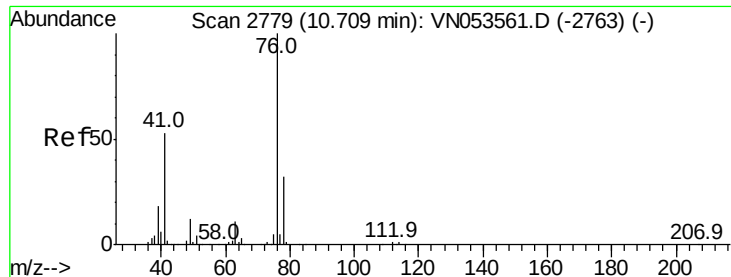


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





#57

1,3-Dichloropropane

Concen: 1.036 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN053867.D

Acq: 19 Feb 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

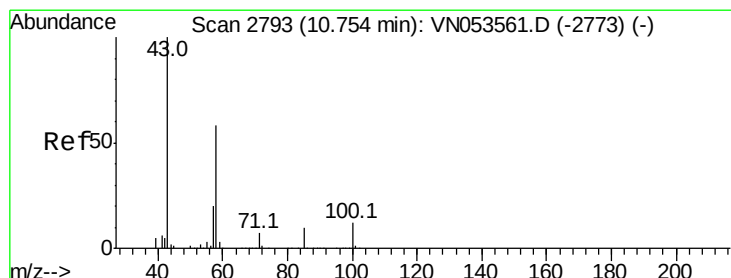
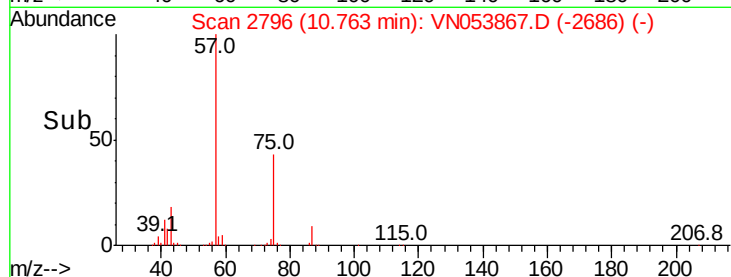
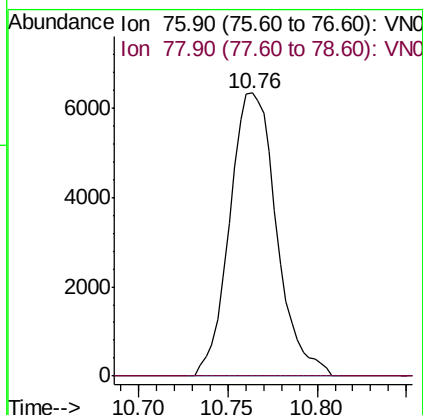
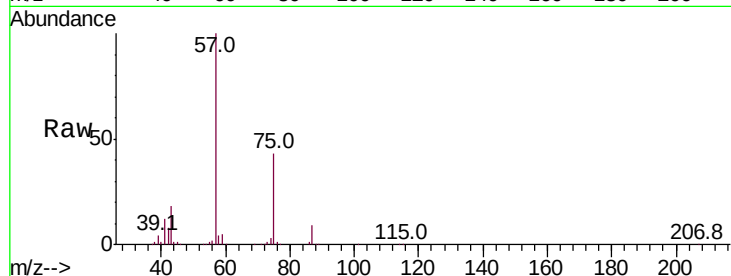
CABLE-BRIDGE-FOUNDATION-D-8

Tot Ion: 76 Resp: 11581

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 40.789 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN053867.D

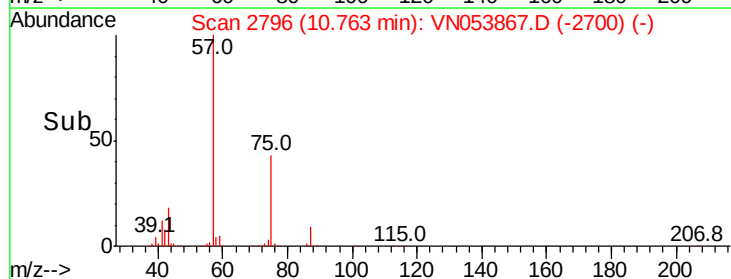
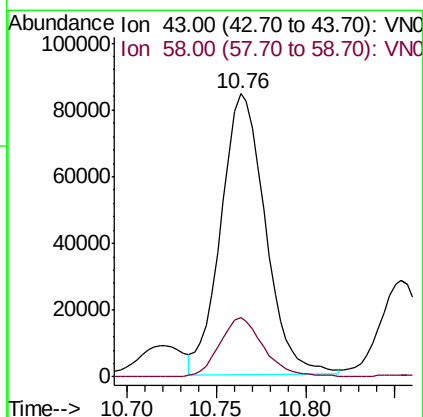
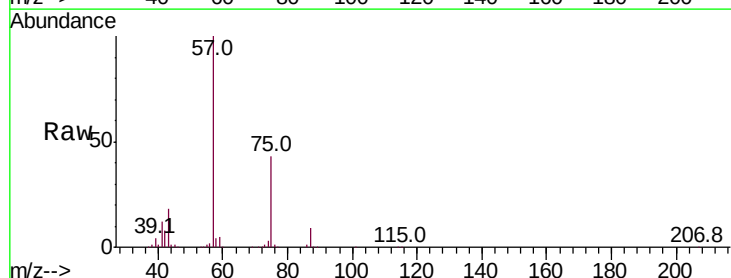
Acq: 19 Feb 2019 14:15

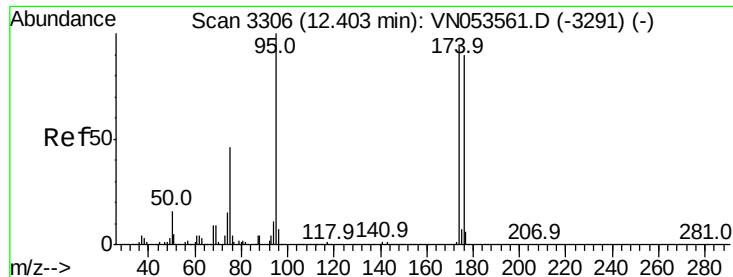
Tgt Ion: 43 Resp: 145549

Ion Ratio Lower Upper

43 100

58 21.2 28.6 85.8#





#62

4-Bromofluorobenzene

Concen: 56.586 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053867.D

Acq: 19 Feb 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

CABLE-BRIDGE-FOUNDATION-D-8

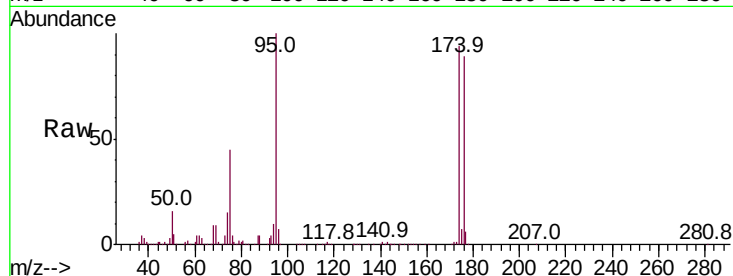
Tot Ion: 95 Resp: 492598

Ion Ratio Lower Upper

95 100

174 95.3 0.0 183.2

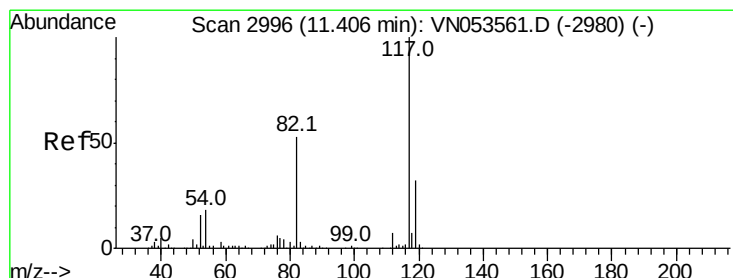
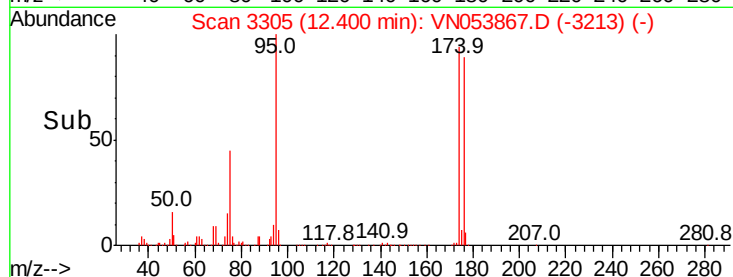
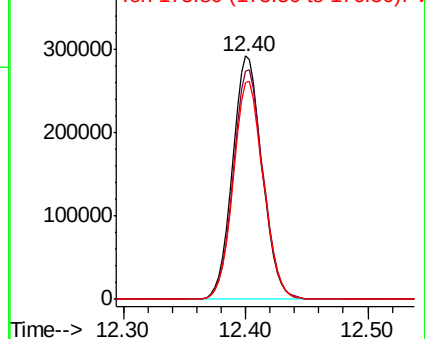
176 90.8 0.0 177.4



Abundance Ion 94.90 (94.60 to 95.60): VN053561.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN053561.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN053561.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN053867.D

Acq: 19 Feb 2019 14:15

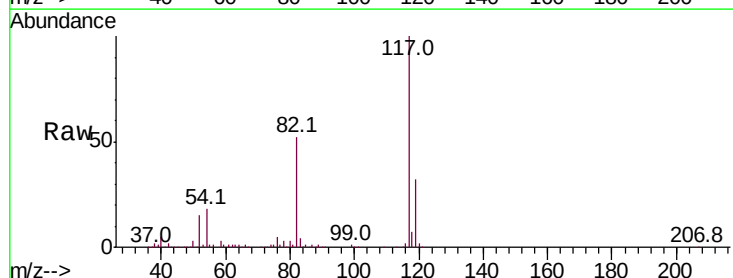
Tgt Ion: 117 Resp: 1061120

Ion Ratio Lower Upper

117 100

82 51.9 42.9 64.3

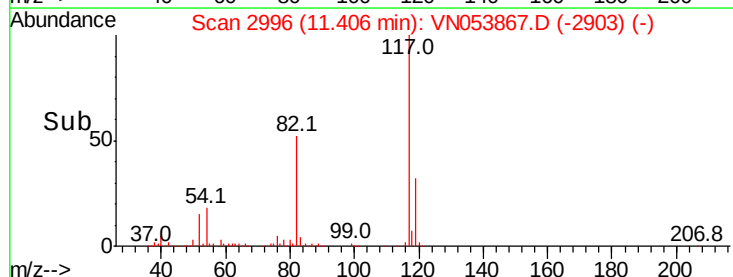
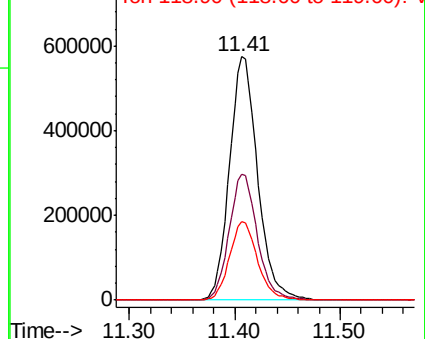
119 32.4 26.0 39.0

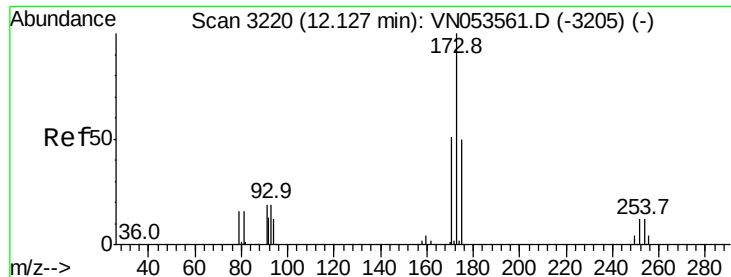


Abundance Ion 116.90 (116.60 to 117.60): VN053561.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN053561.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN053561.D (-2980) (-)





#71

Bromoform

Concen: 0.634 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN053867.D

Acq: 19 Feb 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

CABLE-BRIDGE-FOUNDATION-D-8

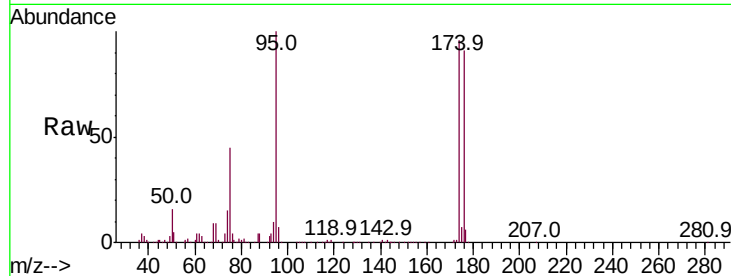
Tot Ion:173 Resp: 3420

Ion Ratio Lower Upper

173 100

175 848.1 24.6 74.0#

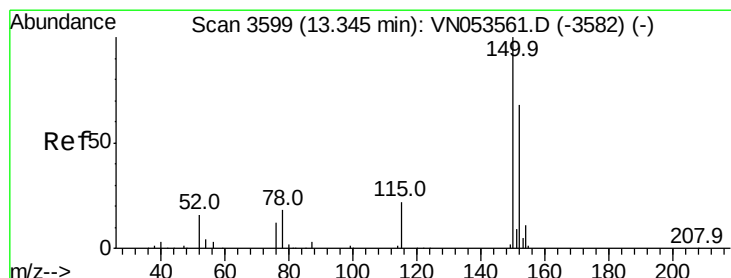
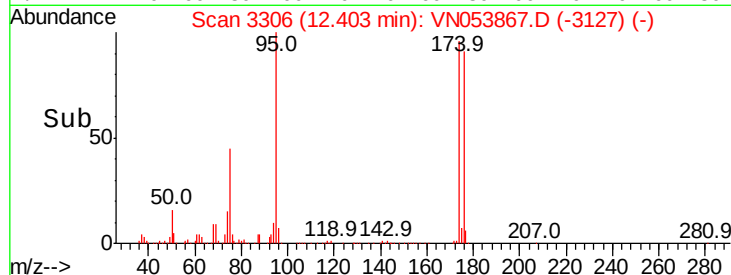
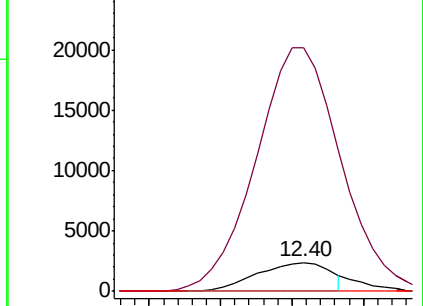
254 0.0 0.2 0.2#



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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN053867.D

Acq: 19 Feb 2019 14:15

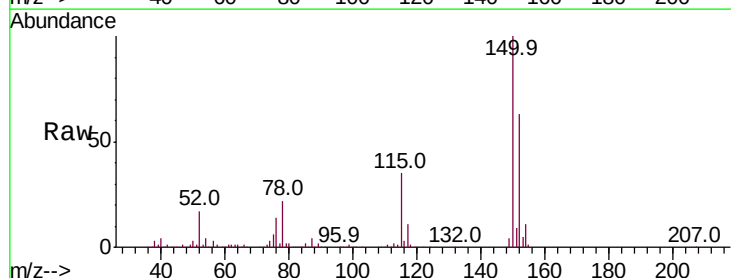
Tgt Ion:152 Resp: 449246

Ion Ratio Lower Upper

152 100

115 55.4 27.8 83.4

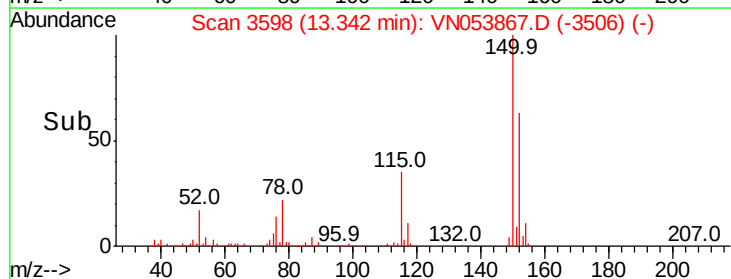
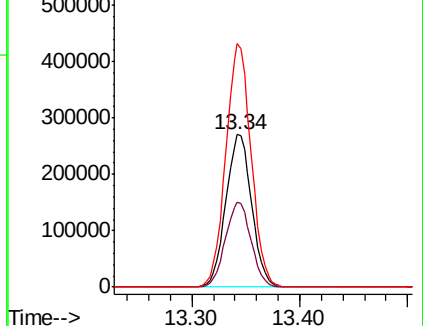
150 156.7 0.0 349.0

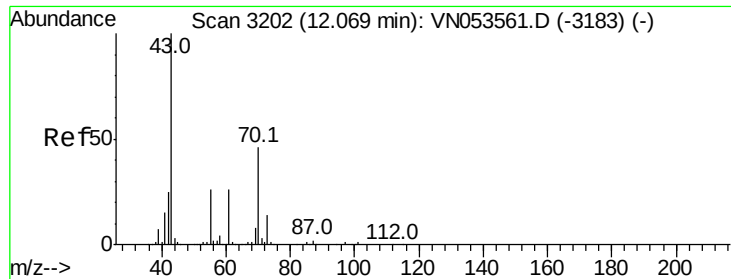


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 1.758 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN053867.D

Acq: 19 Feb 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

CABLE-BRIDGE-FOUNDATION-D-8

Tot Ion: 43 Resp: 13352

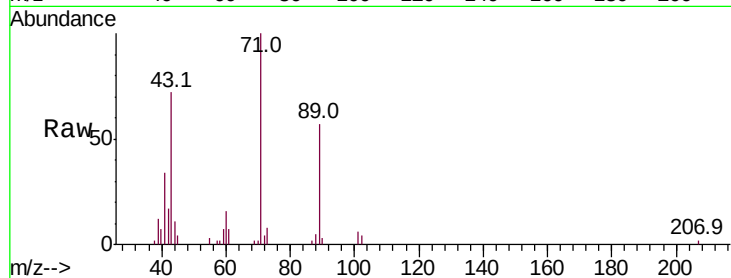
Ion Ratio Lower Upper

43 100

70 1.6 35.4 53.2#

55 2.8 20.9 31.3#

61 10.3 20.5 30.7#

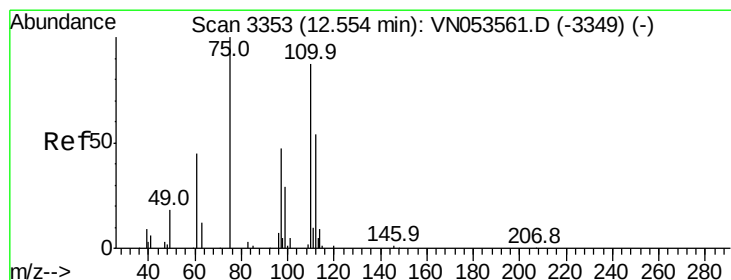
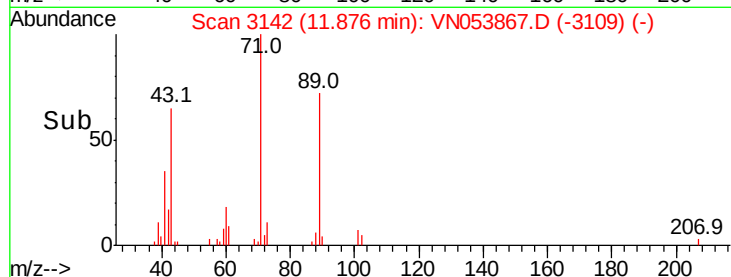
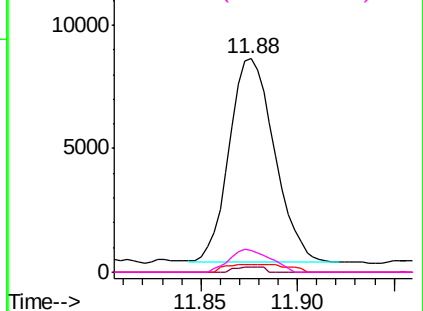


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 38.911 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN053867.D

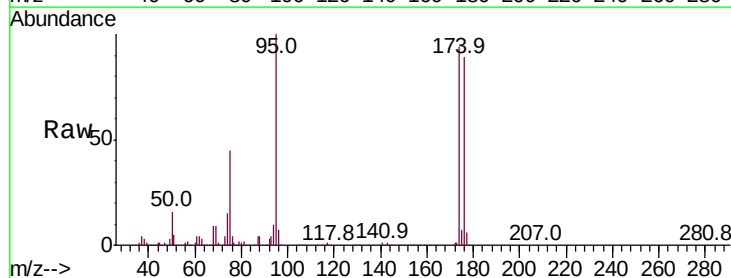
Acq: 19 Feb 2019 14:15

Tgt Ion: 75 Resp: 224529

Ion Ratio Lower Upper

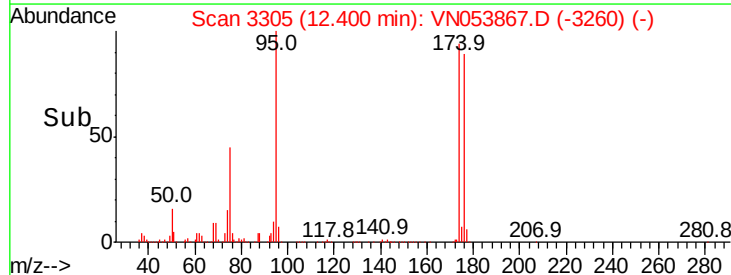
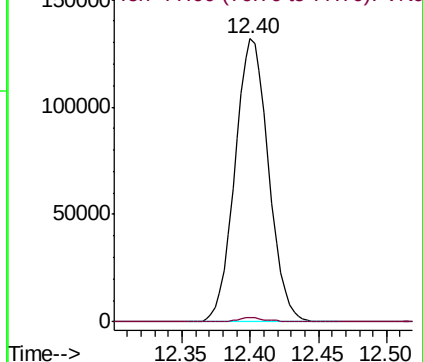
75 100

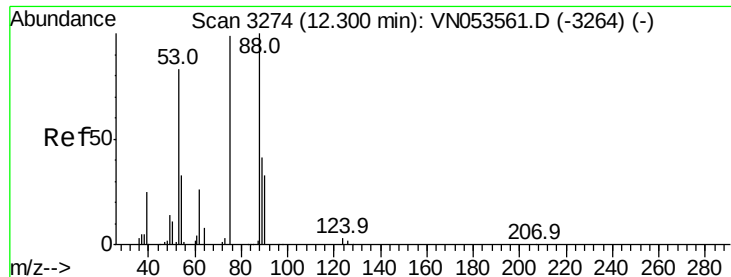
77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 109.415 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN053867.D

Acq: 19 Feb 2019 14:15

Instrument :

MSVOA_N

ClientSampleId :

CABLE-BRIDGE-FOUNDATION-D-8

Tot Ion: 75 Resp: 224529

Ion Ratio Lower Upper

75 100

53 0.0 69.8 104.6#

89 0.0 35.6 53.4#

