

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN073119\
 Data File : VN057016.D
 Acq On : 31 Jul 2019 15:50
 Operator : JC/SP
 Sample : K4074-09
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SS-09_072919

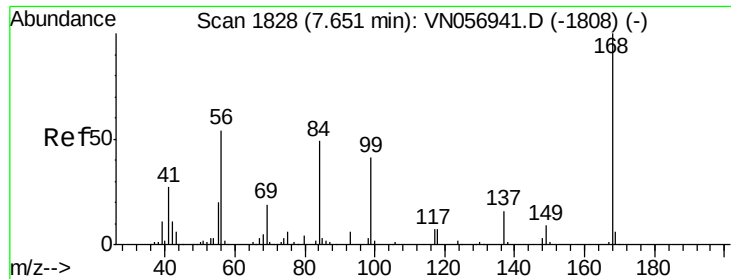
Quant Time: Aug 01 01:21:28 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N072719W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 27 01:33:29 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	569412	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	846881	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	710790	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	202073	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.02	65	284953	48.89	ug/l	0.00
Spiked Amount			Recovery	=	97.78%	
35) Dibromofluoromethane	7.58	113	258054	47.60	ug/l	0.00
Spiked Amount			Recovery	=	95.20%	
50) Toluene-d8	10.08	98	993960	48.08	ug/l	0.00
Spiked Amount			Recovery	=	96.16%	
62) 4-Bromofluorobenzene	12.40	95	267563	39.75	ug/l	0.00
Spiked Amount			Recovery	=	79.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.72	59	2140	2.716	ug/l #	74
16) Acetone	3.81	43	24773	11.732	ug/l	95
18) Methyl Acetate	4.32	43	7928	1.177	ug/l #	87
20) Methylene Chloride	4.55	84	27486	4.519	ug/l	96
25) 2-Butanone	6.83	43	1192	0.398	ug/l #	48
31) Cyclohexane	7.66	56	8801	0.919	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	35828	4.808	ug/l #	48
38) Carbon Tetrachloride	7.65	117	47358	6.719	ug/l #	16
43) Isopropyl Acetate	8.17	43	26130	2.649	ug/l #	80
45) 1,2-Dichloropropane	9.26	63	1827	0.298	ug/l #	44
48) Methyl methacrylate	9.17	41	9225	1.937	ug/l #	12
49) 1,4-Dioxane	9.26	88	94	0.958	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	3992	0.681	ug/l	99
54) cis-1,3-Dichloropropene	9.90	75	60766	6.919	ug/l #	63
56) Ethyl methacrylate	10.32	69	136	1.776	ug/l #	28
57) 1,3-Dichloropropane	10.76	76	11592	1.264	ug/l #	42
59) 2-Hexanone	10.76	43	158586	37.283	ug/l #	51
70) Styrene	11.96	104	311	1.886	ug/l #	47
71) Bromoform	12.40	173	2219	0.583	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	122850	29.936	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	122850	96.183	ug/l #	15
95) Naphthalene	15.11	128	30	3.591	ug/l #	70

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.01 min

Lab File: VN057016.D

Acq: 31 Jul 2019 15:50

Instrument :

MSVOA_N

ClientSampled :

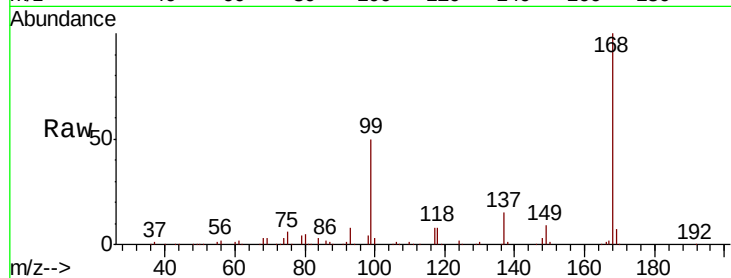
SS-09_072919

Tot Ion:168 Resp: 569412

Ion Ratio Lower Upper

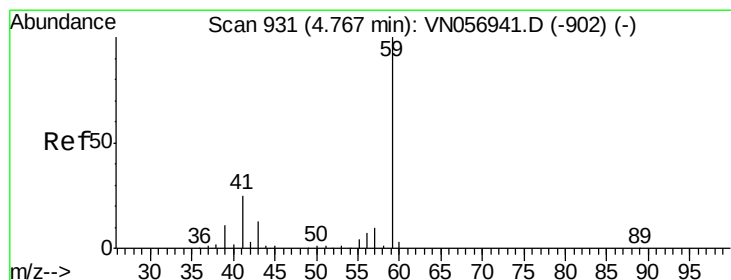
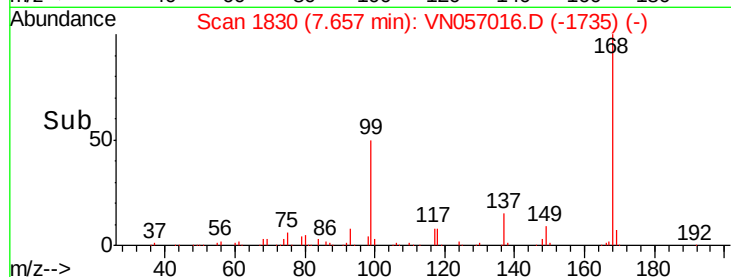
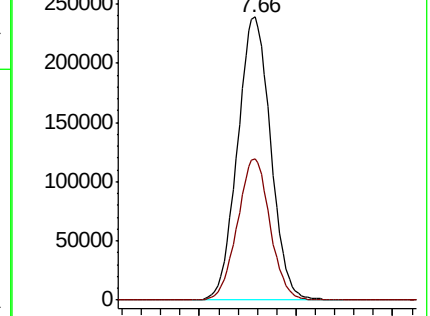
168 100

99 50.1 39.0 58.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#11

Tert butyl alcohol

Concen: 2.716 ug/l

RT: 4.72 min Scan# 916

Delta R.T. -0.05 min

Lab File: VN057016.D

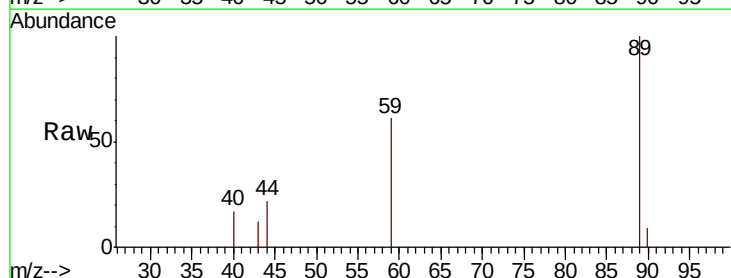
Acq: 31 Jul 2019 15:50

Tgt Ion: 59 Resp: 2140

Ion Ratio Lower Upper

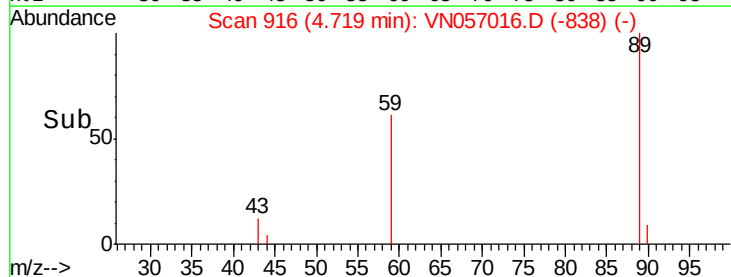
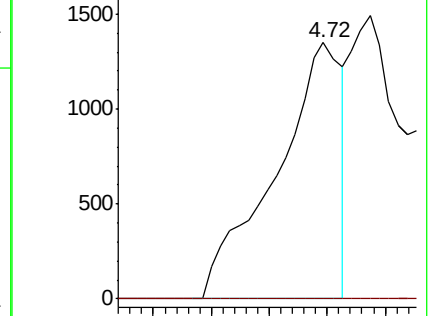
59 100

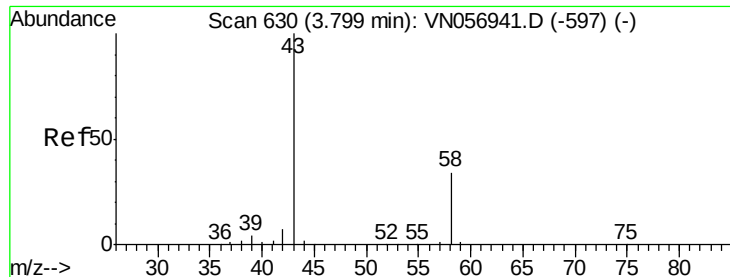
57 0.0 7.5 11.3#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN





#16

Acetone

Concen: 11.732 ug/l

RT: 3.81 min Scan# 634

Delta R.T. 0.01 min

Lab File: VN057016.D

Acq: 31 Jul 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

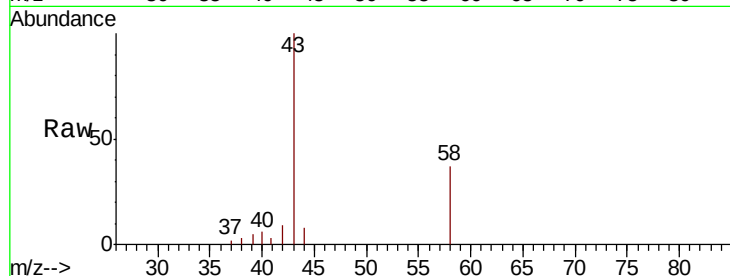
SS-09_072919

Tot Ion: 43 Resp: 24773

Ion Ratio Lower Upper

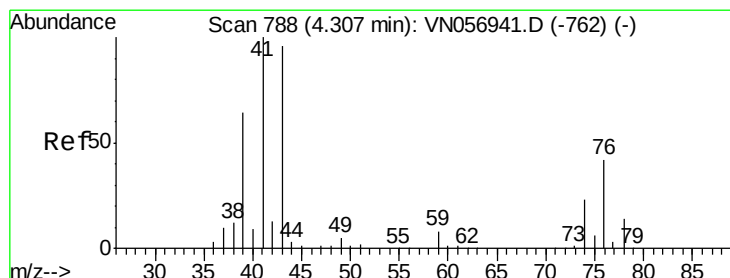
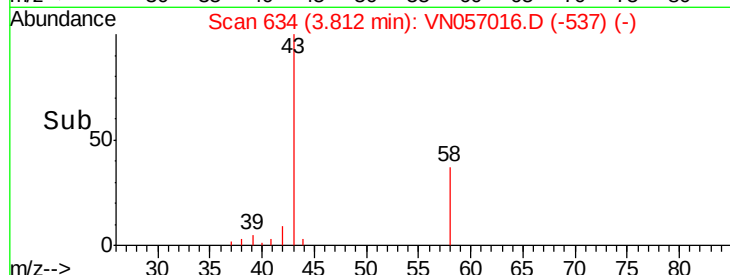
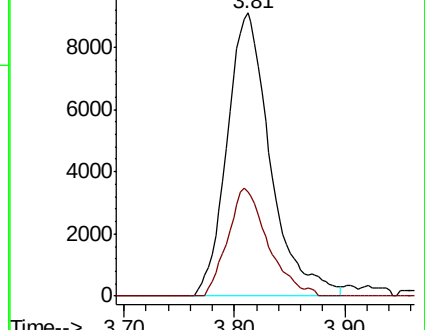
43 100

58 36.9 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN057016.D (-537) (-)

Ion 58.00 (57.70 to 58.70): VN057016.D (-537) (-)



#18

Methyl Acetate

Concen: 1.177 ug/l

RT: 4.32 min Scan# 791

Delta R.T. 0.01 min

Lab File: VN057016.D

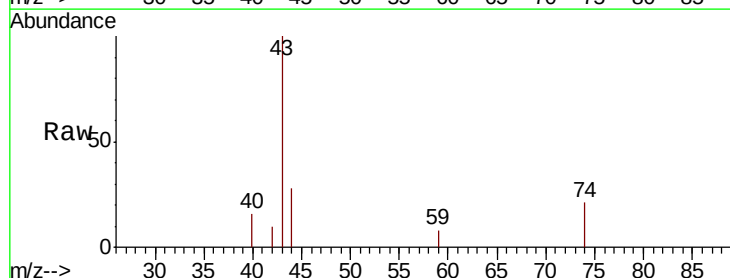
Acq: 31 Jul 2019 15:50

Tgt Ion: 43 Resp: 7928

Ion Ratio Lower Upper

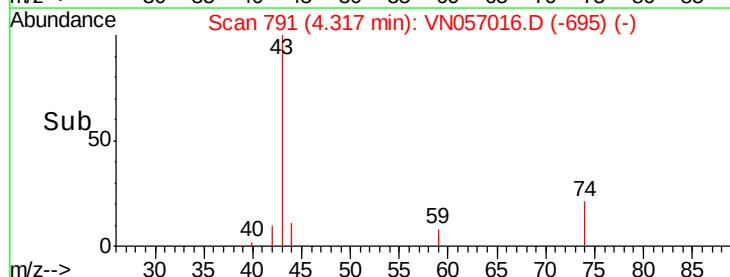
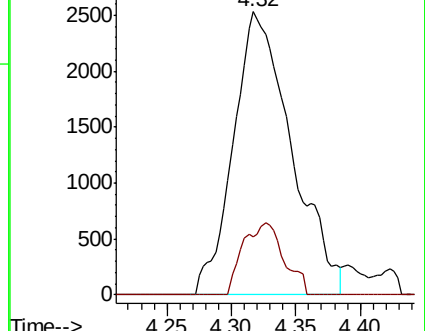
43 100

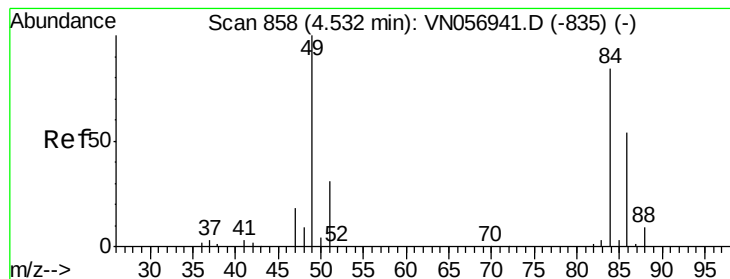
74 17.9 19.7 29.5#



Abundance Ion 43.00 (42.70 to 43.70): VN057016.D (-695) (-)

Ion 74.00 (73.70 to 74.70): VN057016.D (-695) (-)





#20

Methvlene Chloride

Concen: 4.519 ug/l

RT: 4.55 min Scan# 862

Delta R.T. 0.01 min

Lab File: VN057016.D

Acq: 31 Jul 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

SS-09_072919

Tot Ion: 84 Resp: 27486

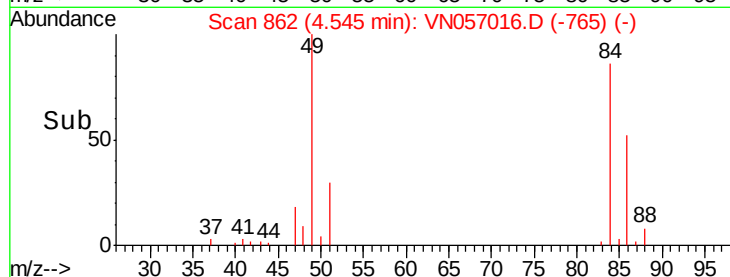
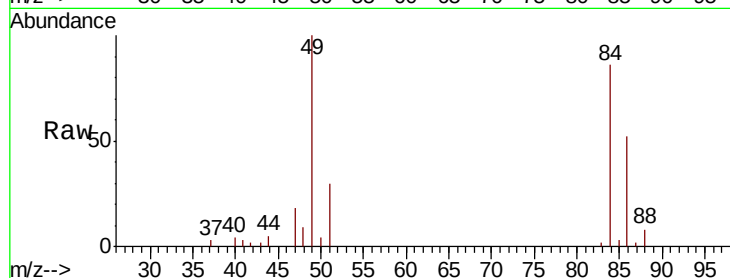
Ion Ratio Lower Upper

84 100

49 114.0 95.2 142.8

51 34.9 29.7 44.5

86 60.3 51.0 76.6



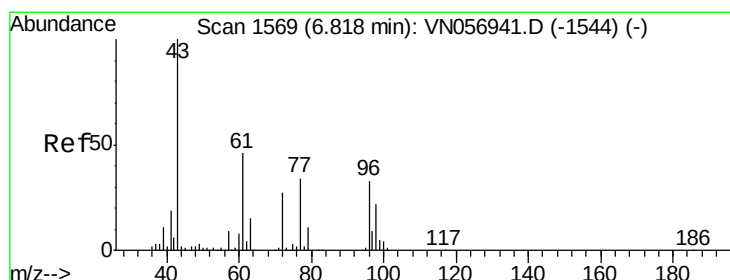
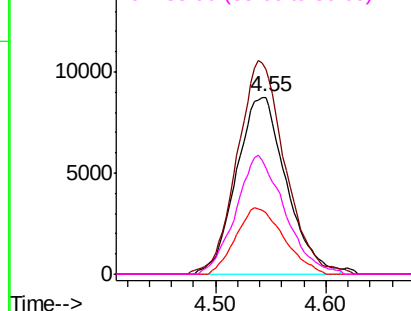
Abundance

Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 0.398 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VN057016.D

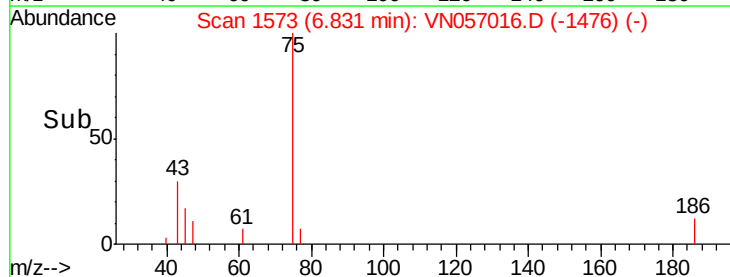
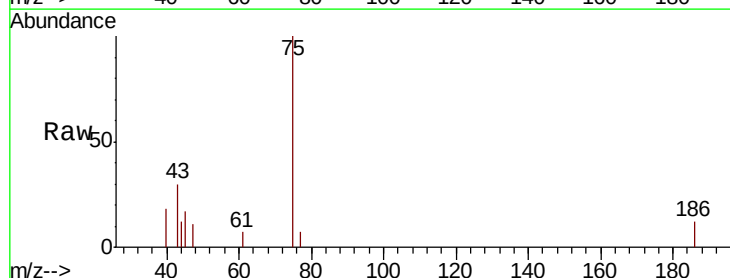
Acq: 31 Jul 2019 15:50

Tgt Ion: 43 Resp: 1192

Ion Ratio Lower Upper

43 100

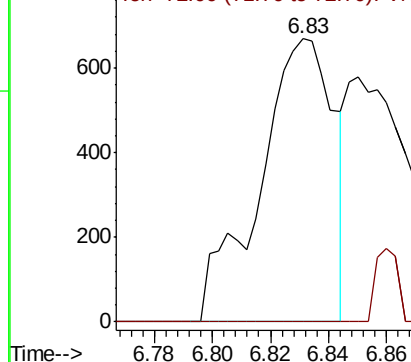
72 0.0 21.5 32.3#

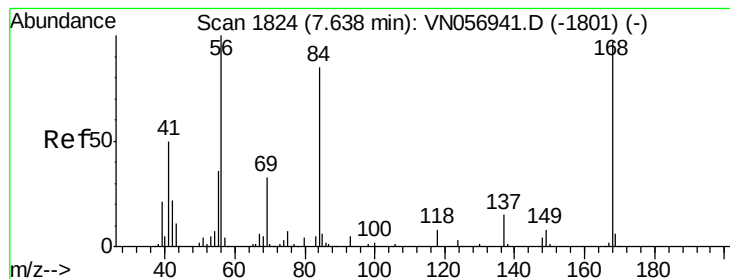


Abundance

Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#31

Cyclohexane

Concen: 0.919 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. 0.02 min

Lab File: VN057016.D

Acq: 31 Jul 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

SS-09_072919

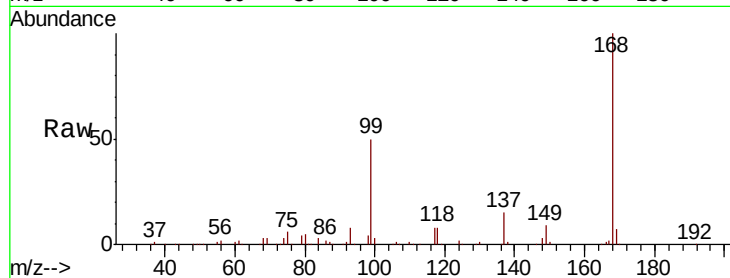
Tot Ion: 56 Resp: 8801

Ion Ratio Lower Upper

56 100

69 174.3 26.2 39.2#

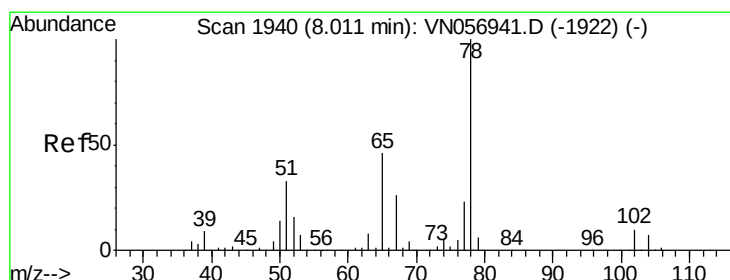
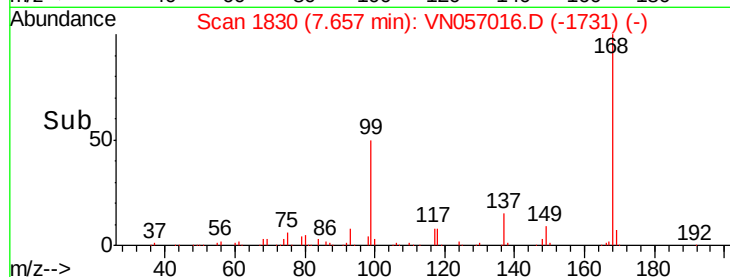
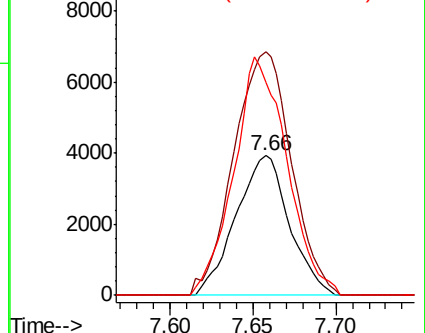
84 152.2 68.2 102.2#



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: 48.887 ug/l

RT: 8.02 min Scan# 1942

Delta R.T. 0.01 min

Lab File: VN057016.D

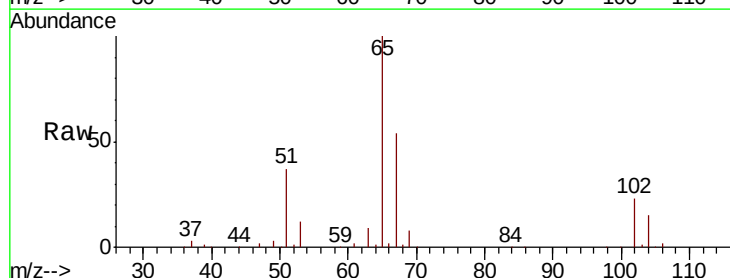
Acq: 31 Jul 2019 15:50

Tgt Ion: 65 Resp: 284953

Ion Ratio Lower Upper

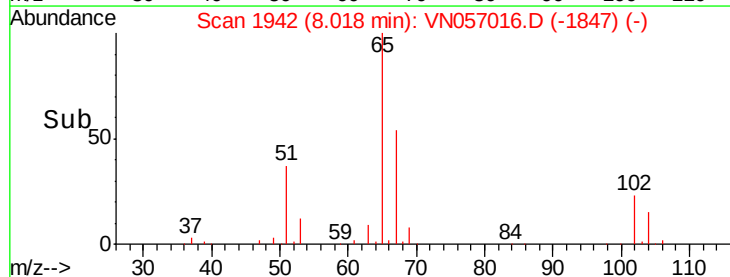
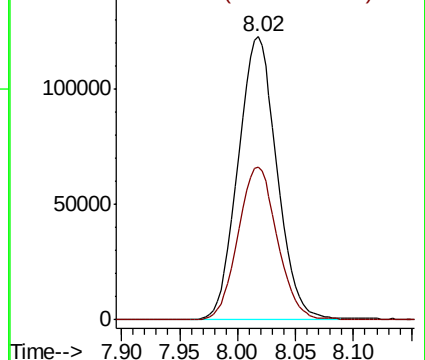
65 100

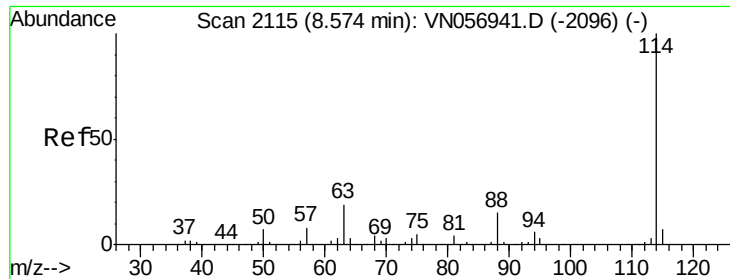
67 54.8 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

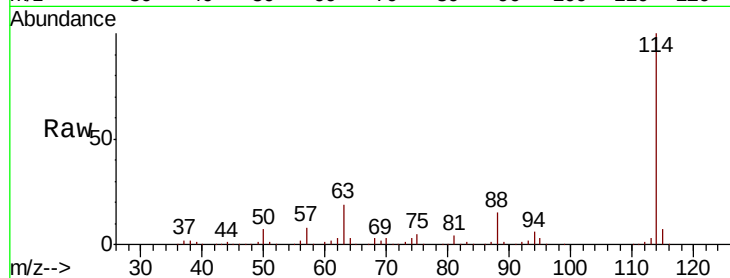




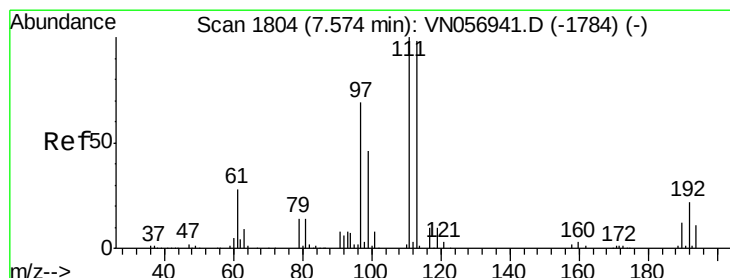
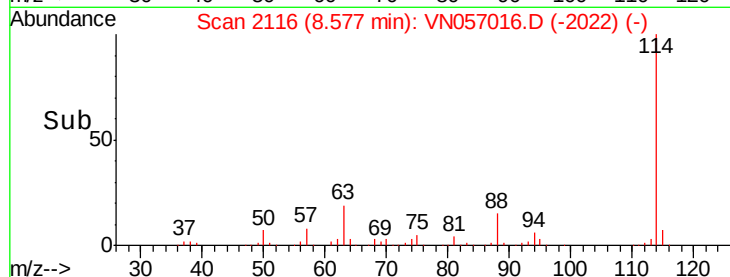
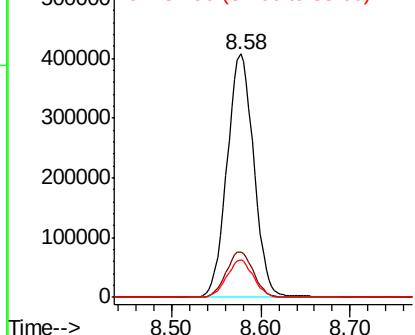
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2116
Delta R.T. 0.00 min
Lab File: VN057016.D
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MSVOA_N
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Tot Ion:114 Resp: 846881
Ion Ratio Lower Upper
114 100
63 18.6 0.0 38.0
88 15.3 0.0 30.0

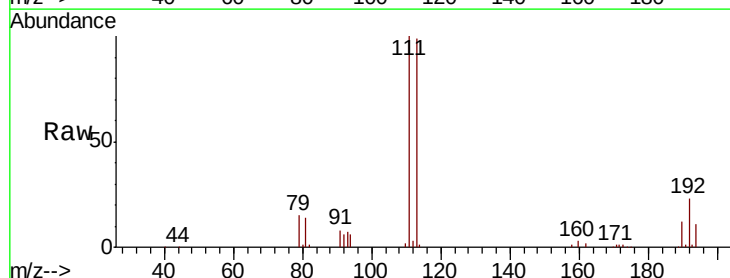


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

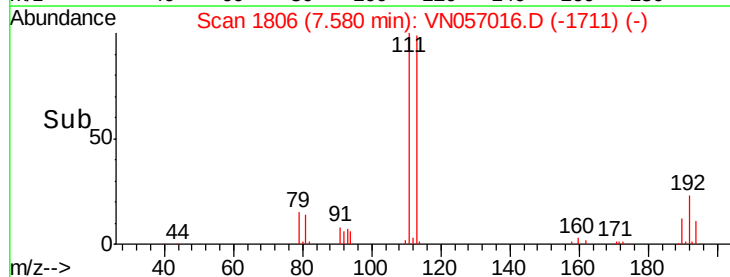
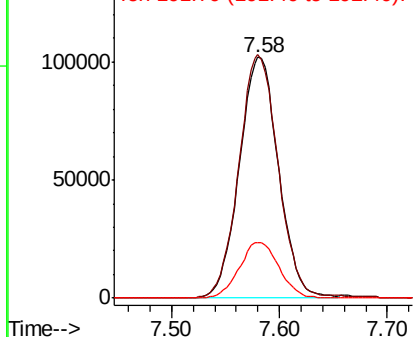


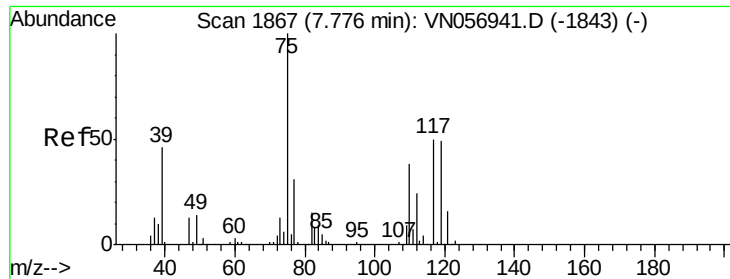
#35
Dibromofluoromethane
Concen: 47.599 ug/l
RT: 7.58 min Scan# 1806
Delta R.T. 0.01 min
Lab File: VN057016.D
Acq: 31 Jul 2019 15:50

Tgt Ion:113 Resp: 258054
Ion Ratio Lower Upper
113 100
111 101.8 82.0 123.0
192 23.4 18.4 27.6



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: 4.808 ug/l

RT: 7.66 min Scan# 1830

Delta R.T. -0.12 min

Lab File: VN057016.D

Acq: 31 Jul 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

SS-09_072919

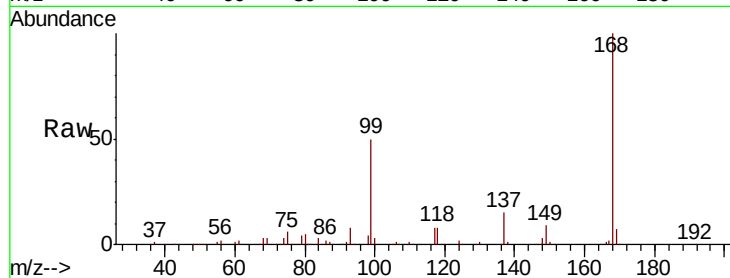
Tot Ion: 75 Resp: 35828

Ion Ratio Lower Upper

75 100

110 8.8 18.6 55.8#

77 0.0 25.2 37.8#



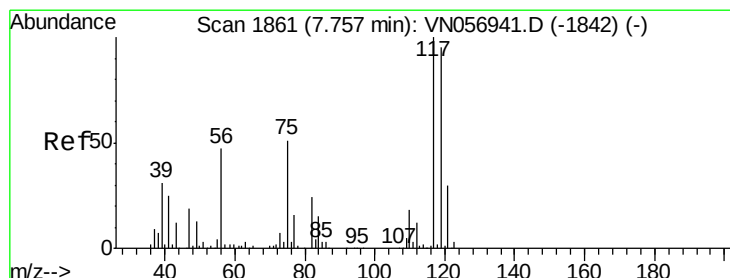
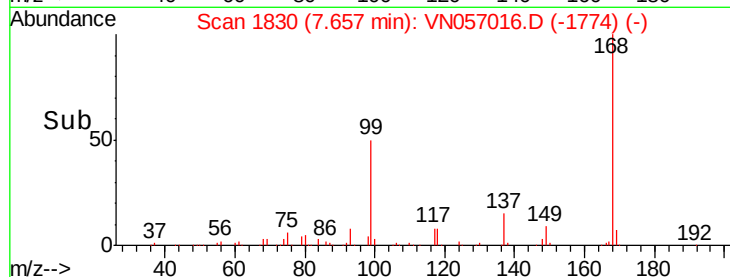
Abundance Ion 74.90 (74.60 to 75.60): VN056941.D (-1843) (-)

Ion 109.90 (109.60 to 110.60): VN056941.D (-1843) (-)

Ion 76.90 (76.60 to 77.60): VN056941.D (-1843) (-)

7.66

Time-->



#38

Carbon Tetrachloride

Concen: 6.719 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. -0.10 min

Lab File: VN057016.D

Acq: 31 Jul 2019 15:50

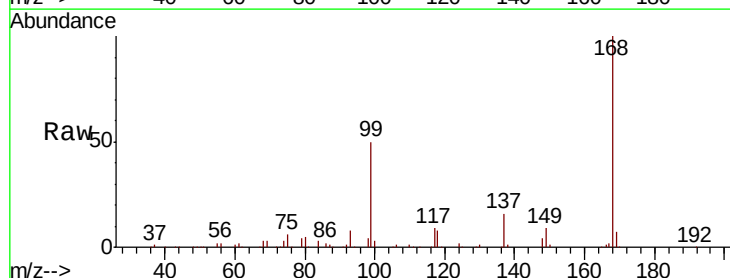
Tgt Ion: 117 Resp: 47358

Ion Ratio Lower Upper

117 100

119 4.6 75.3 112.9#

121 0.0 24.2 36.4#



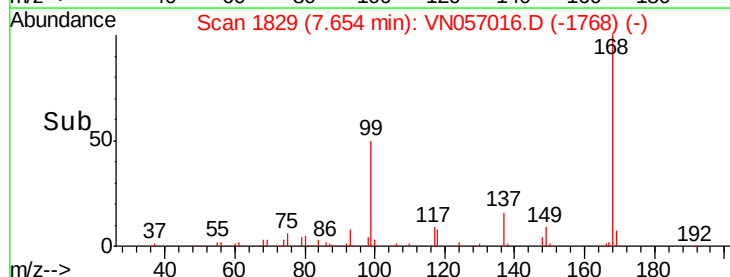
Abundance Ion 116.80 (116.50 to 117.50): VN056941.D (-1842) (-)

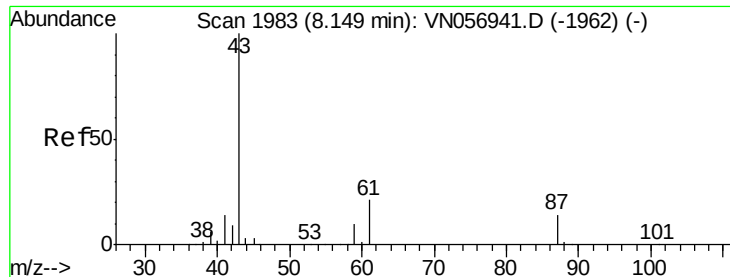
Ion 118.80 (118.50 to 119.50): VN056941.D (-1842) (-)

Ion 120.80 (120.50 to 121.50): VN056941.D (-1842) (-)

7.65

Time-->





#43

Isopropyl Acetate

Concen: 2.649 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.02 min

Lab File: VN057016.D

Acq: 31 Jul 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

SS-09_072919

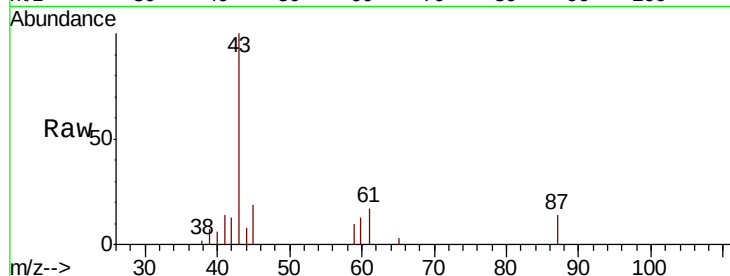
Tot Ion: 43 Resp: 26130

Ion Ratio Lower Upper

43 100

61 18.3 23.0 34.6#

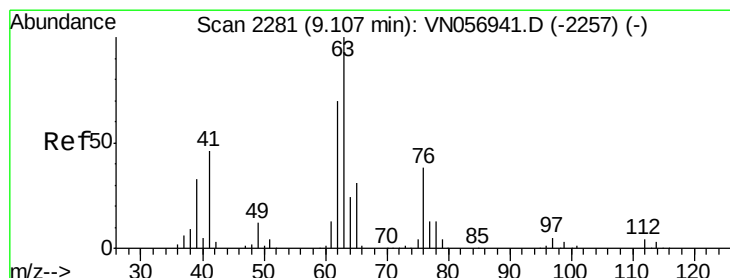
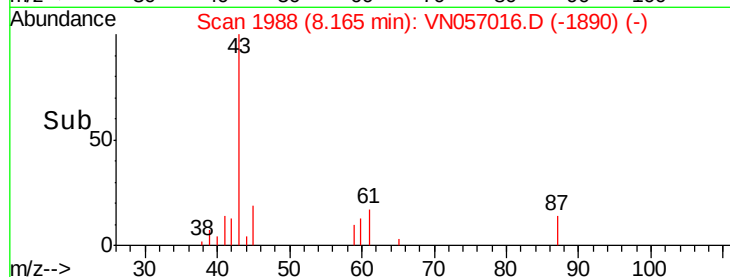
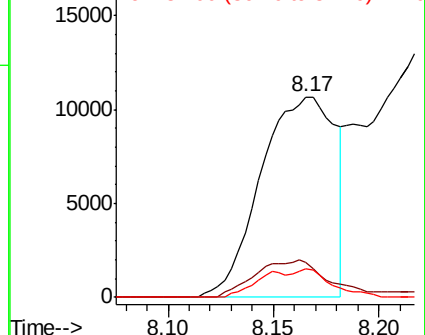
87 6.5 11.7 17.5#



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: 0.298 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.15 min

Lab File: VN057016.D

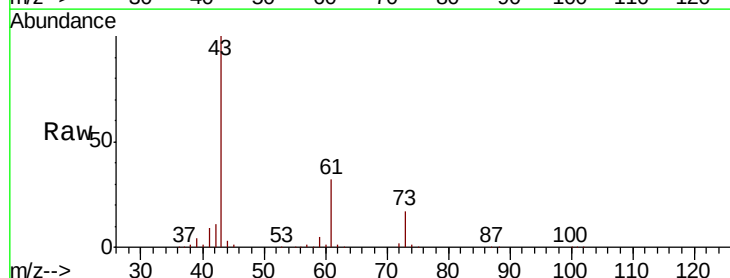
Acq: 31 Jul 2019 15:50

Tgt Ion: 63 Resp: 1827

Ion Ratio Lower Upper

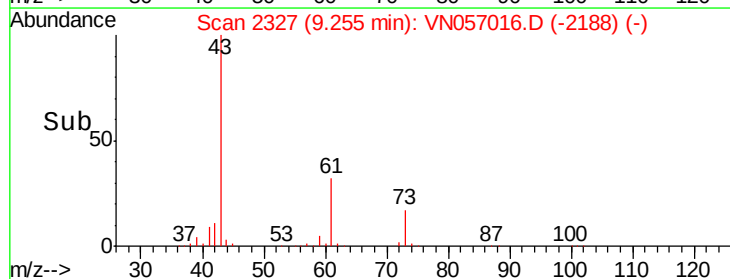
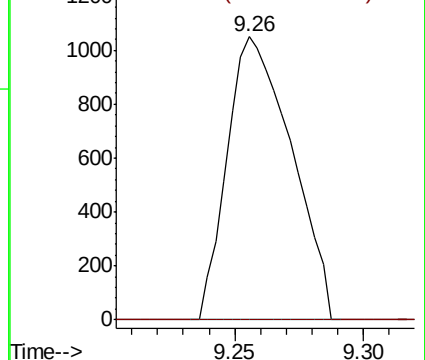
63 100

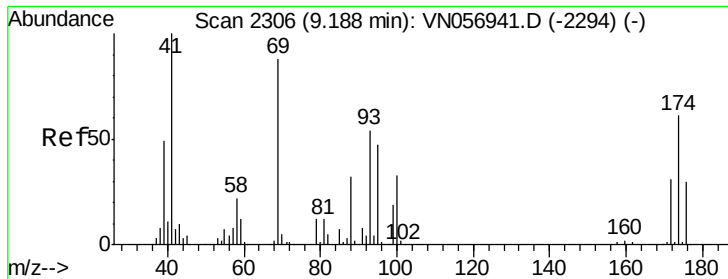
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

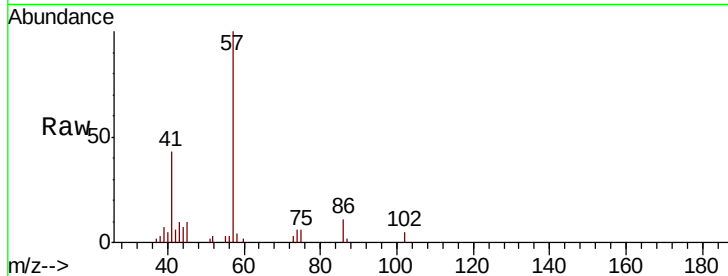




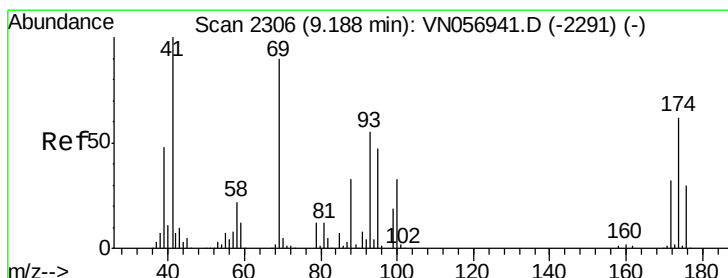
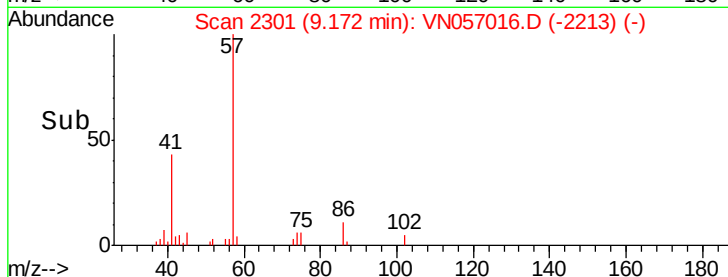
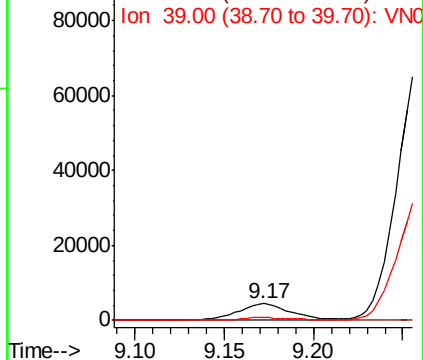
#48
Methvl methacrylate
Concen: 1.937 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN057016.D
Acq: 31 Jul 2019 15:50

Instrument :
MSVOA_N
ClientSampleId :
SS-09_072919

Tot Ion: 41 Resp: 9225
Ion Ratio Lower Upper
41 100
69 0.0 73.4 110.0#
39 0.0 39.9 59.9#

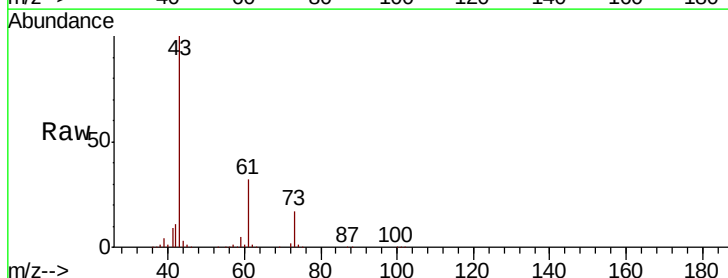


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO

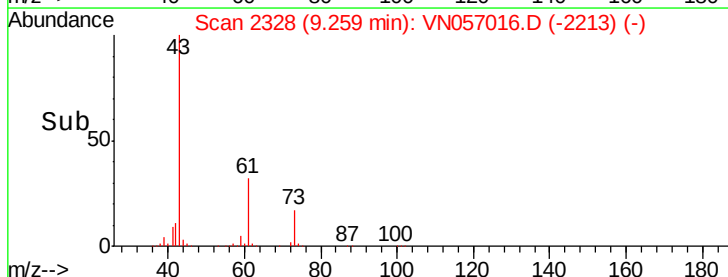
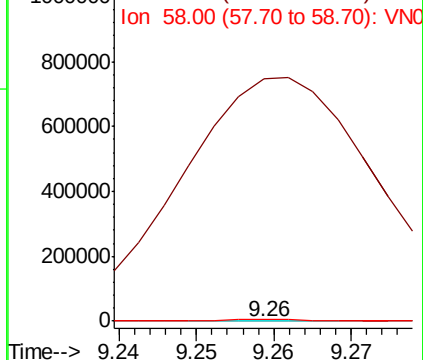


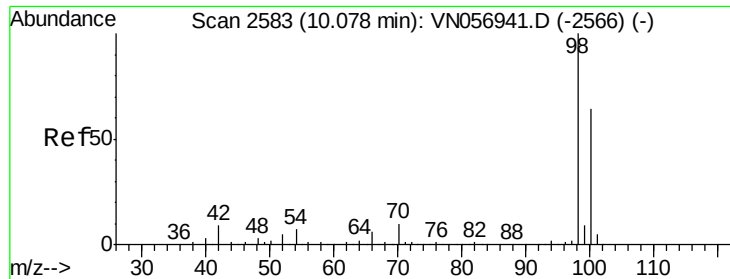
#49
1,4-Dioxane
Concen: 0.958 ug/l
RT: 9.26 min Scan# 2328
Delta R.T. 0.07 min
Lab File: VN057016.D
Acq: 31 Jul 2019 15:50

Tgt Ion: 88 Resp: 94
Ion Ratio Lower Upper
88 100
43 1505560.6 22.2 33.2#
58 7408.5 54.1 81.1#



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: 48.077 ug/l

RT: 10.08 min Scan# 2584

Delta R.T. 0.00 min

Lab File: VN057016.D

Acq: 31 Jul 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

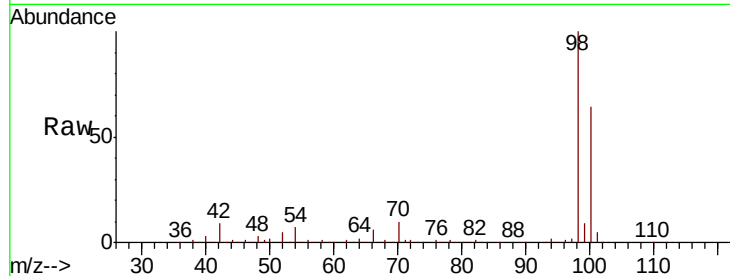
SS-09_072919

Tot Ion: 98 Resp: 993960

Ion Ratio Lower Upper

98 100

100 64.5 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN

10.08

500000

400000

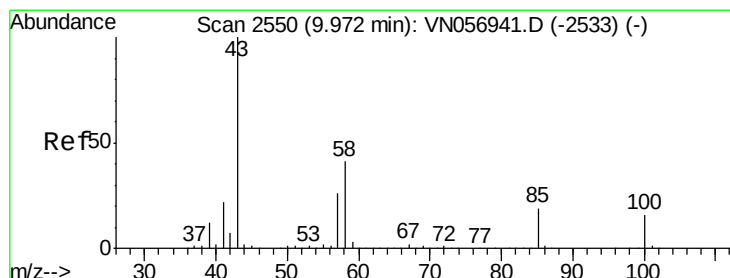
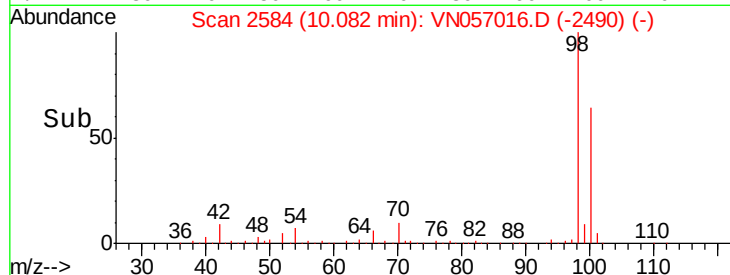
300000

200000

100000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.681 ug/l

RT: 9.98 min Scan# 2552

Delta R.T. 0.01 min

Lab File: VN057016.D

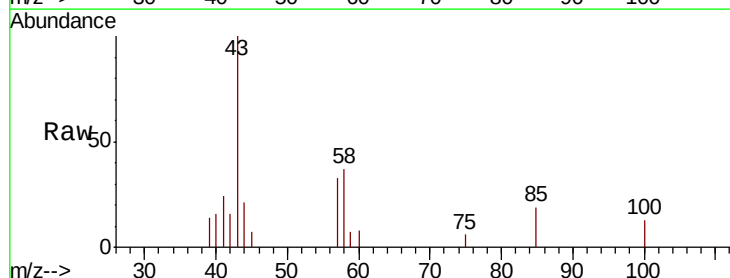
Acq: 31 Jul 2019 15:50

Tgt Ion: 43 Resp: 3992

Ion Ratio Lower Upper

43 100

58 40.8 33.1 49.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

5000

4000

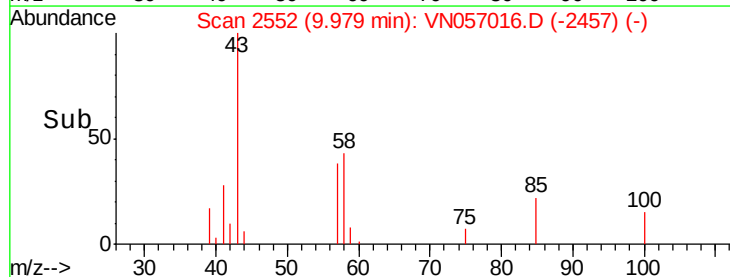
3000

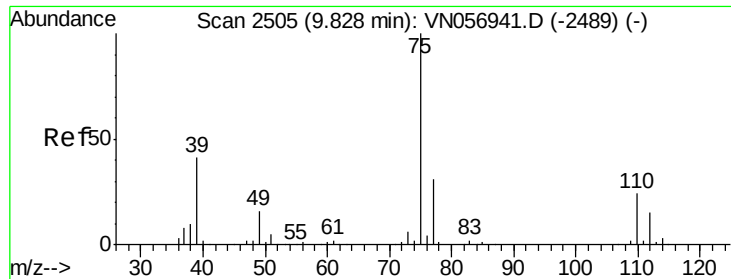
2000

1000

0

Time-->

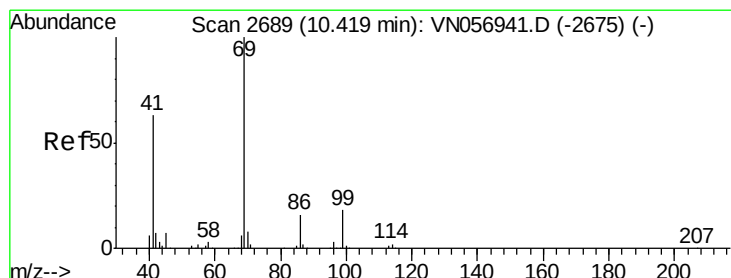
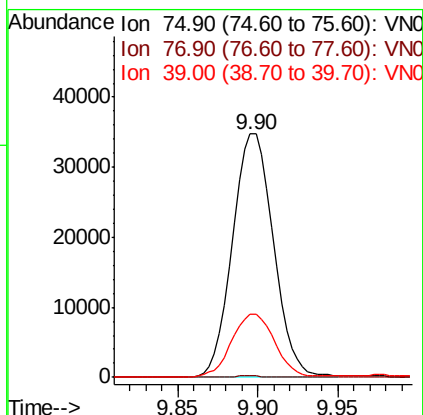
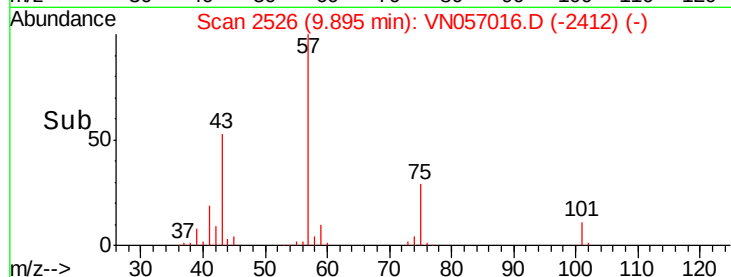
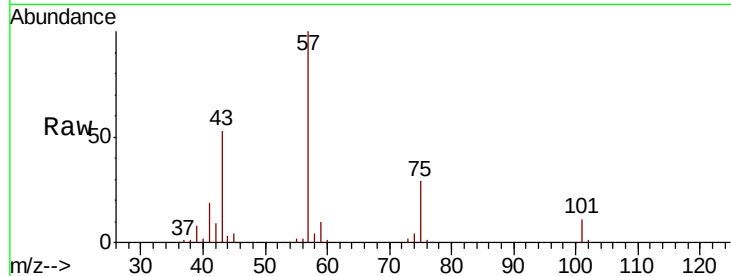




#54
 cis-1,3-Dichloropropene
 Concen: 6.919 ug/l
 RT: 9.90 min Scan# 2526
 Delta R.T. 0.07 min
 Lab File: VN057016.D
 Acq: 31 Jul 2019 15:50

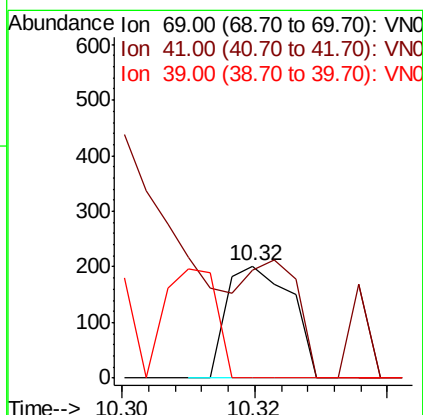
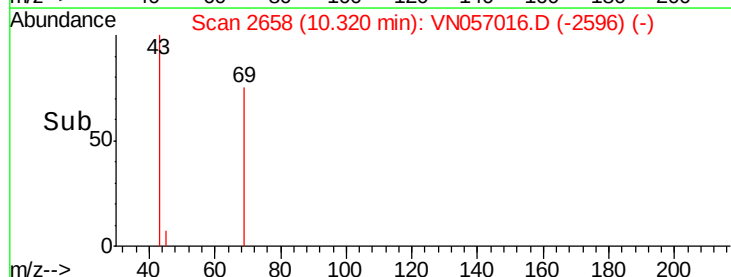
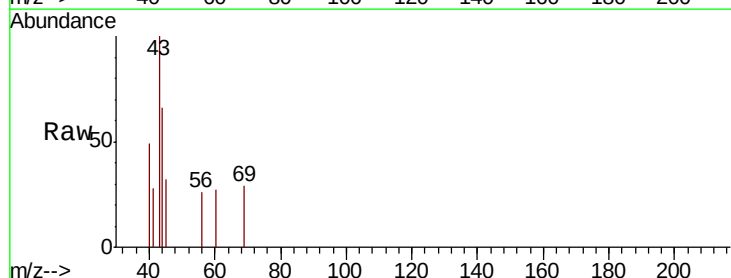
Instrument :
 MSVOA_N
 ClientSampleId :
 SS-09_072919

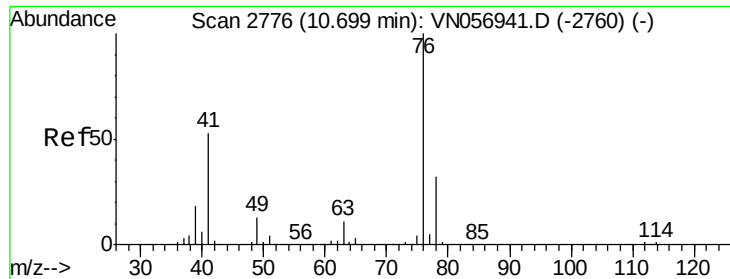
Tot Ion: 75 Resp: 60766
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.0 37.6#
 39 26.1 32.6 49.0#



#56
 Ethyl methacrylate
 Concen: 1.776 ug/l
 RT: 10.32 min Scan# 2658
 Delta R.T. -0.10 min
 Lab File: VN057016.D
 Acq: 31 Jul 2019 15:50

Tgt Ion: 69 Resp: 136
 Ion Ratio Lower Upper
 69 100
 41 0.0 49.2 73.8#
 39 0.0 23.1 34.7#

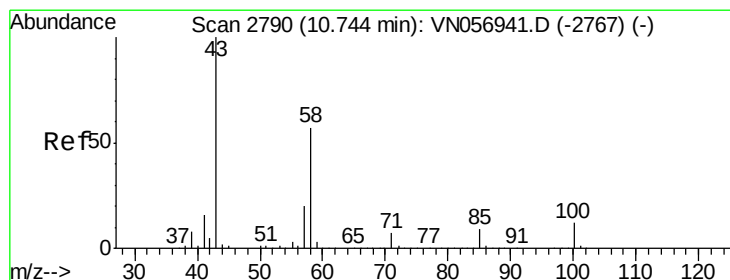
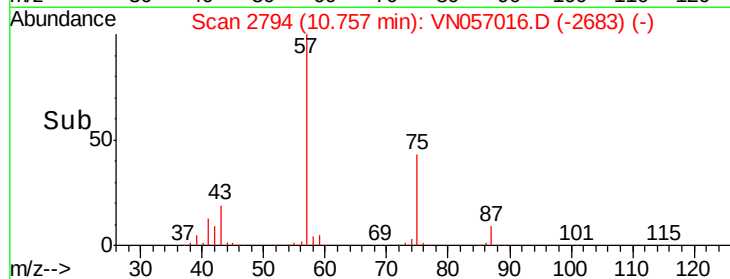
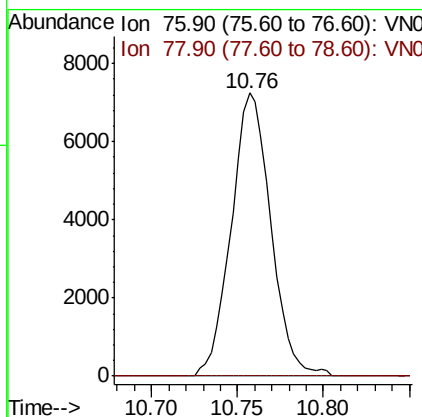
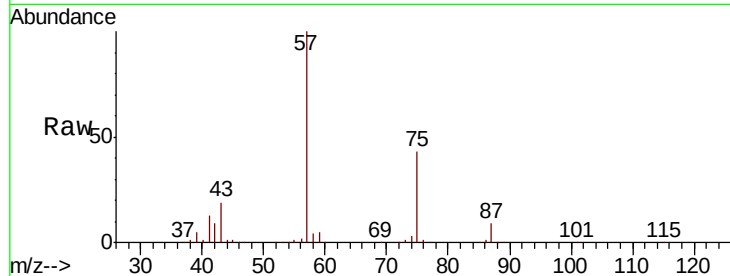




#57
 1,3-Dichloropropane
 Concen: 1.264 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.06 min
 Lab File: VN057016.D
 Acq: 31 Jul 2019 15:50

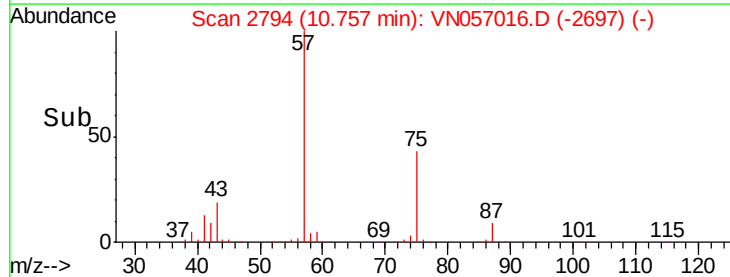
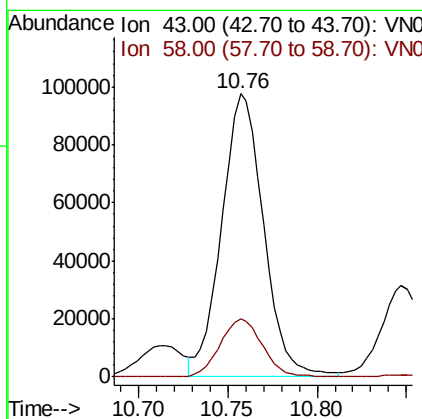
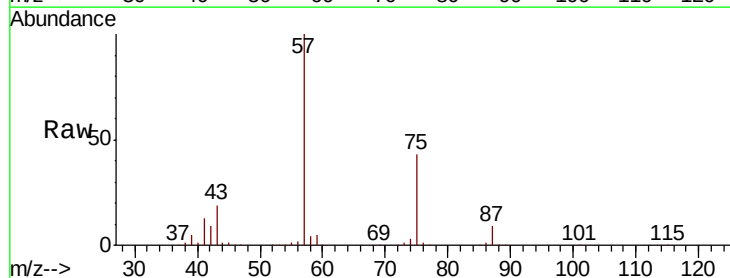
Instrument :
 MSVOA_N
 ClientSampleId :
 SS-09_072919

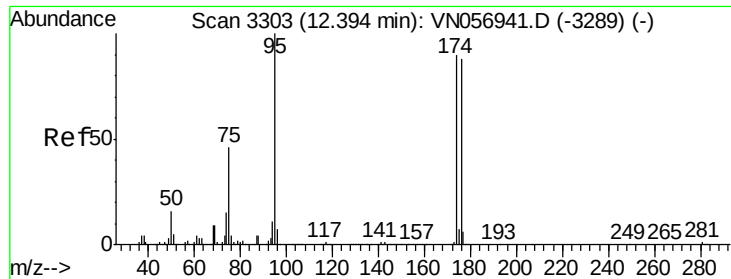
Tot Ion: 76 Resp: 11592
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.9 38.9#



#59
 2-Hexanone
 Concen: 37.283 ug/l
 RT: 10.76 min Scan# 2794
 Delta R.T. 0.01 min
 Lab File: VN057016.D
 Acq: 31 Jul 2019 15:50

Tgt Ion: 43 Resp: 158586
 Ion Ratio Lower Upper
 43 100
 58 20.7 28.5 85.5#

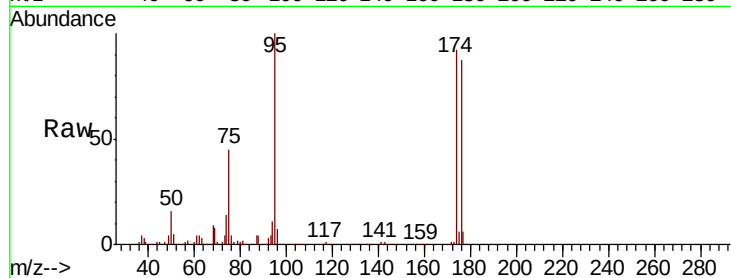




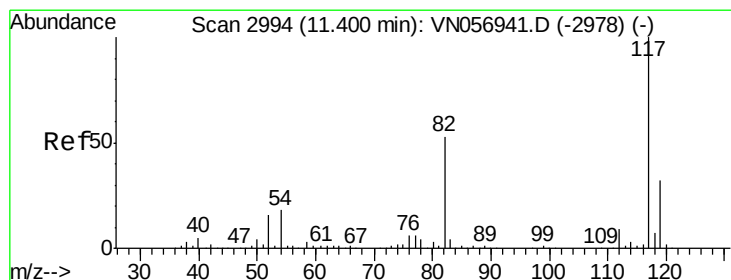
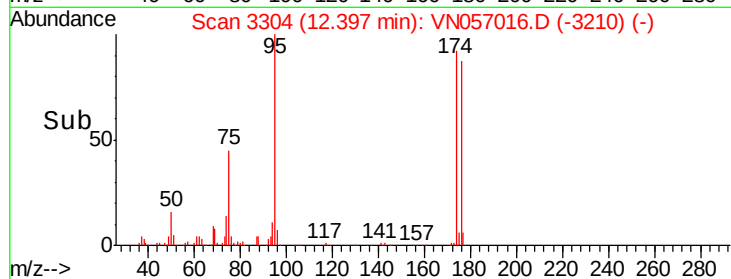
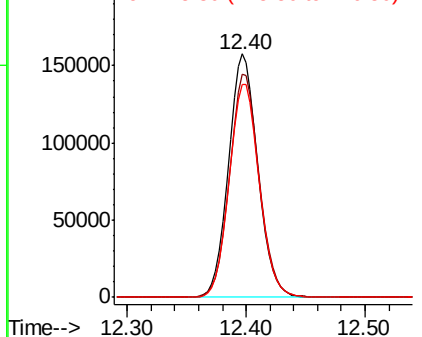
#62
4-Bromofluorobenzene
Concen: 39.754 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN057016.D
Acq: 31 Jul 2019 15:50

Instrument :
MSVOA_N
ClientSampleId :
SS-09_072919

Tot Ion: 95 Resp: 267563
Ion Ratio Lower Upper
95 100
174 93.1 0.0 182.2
176 90.1 0.0 179.4

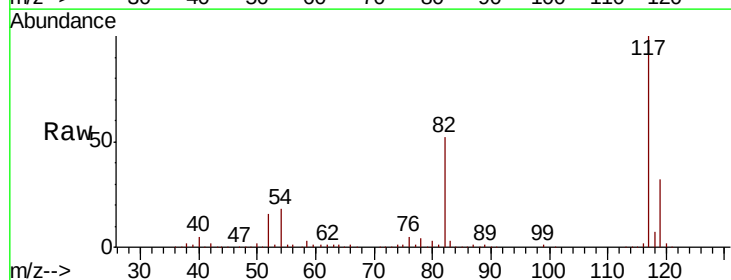


Abundance Ion 94.90 (94.60 to 95.60): VN056941.D (-3289) (-)
Ion 173.80 (173.50 to 174.50): VN056941.D (-3289) (-)
Ion 175.80 (175.50 to 176.50): VN056941.D (-3289) (-)

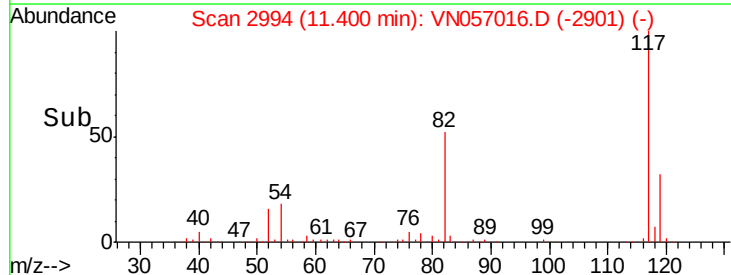
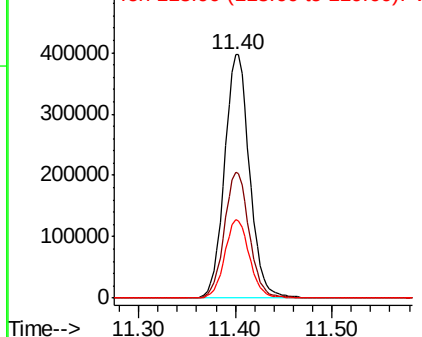


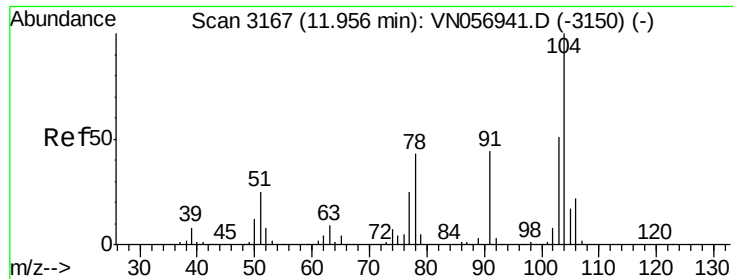
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN057016.D
Acq: 31 Jul 2019 15:50

Tgt Ion: 117 Resp: 710790
Ion Ratio Lower Upper
117 100
82 51.8 42.2 63.4
119 32.0 25.8 38.6



Abundance Ion 116.90 (116.60 to 117.60): VN056941.D (-2978) (-)
Ion 82.00 (81.70 to 82.70): VN056941.D (-2978) (-)
Ion 118.90 (118.60 to 119.60): VN056941.D (-2978) (-)

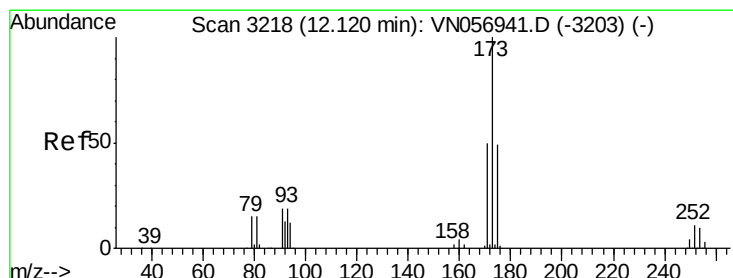
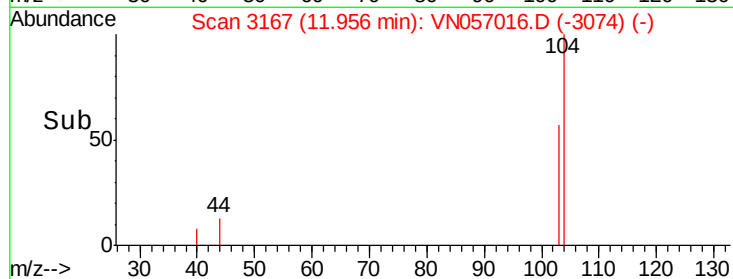
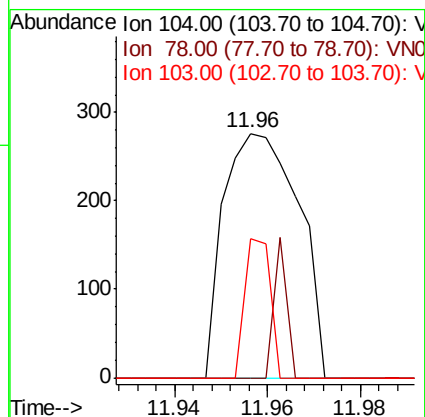
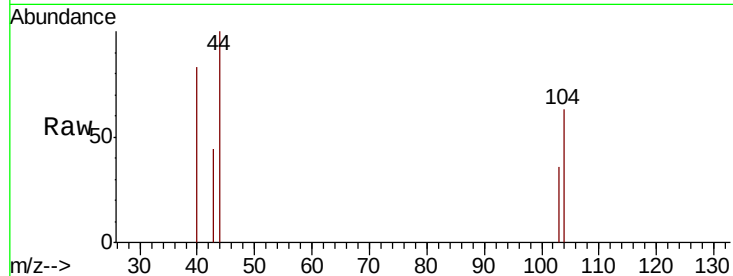




#70
Stvrene
Concen: 1.886 ug/l
RT: 11.96 min Scan# 3167
Delta R.T. 0.00 min
Lab File: VN057016.D
Acq: 31 Jul 2019 15:50

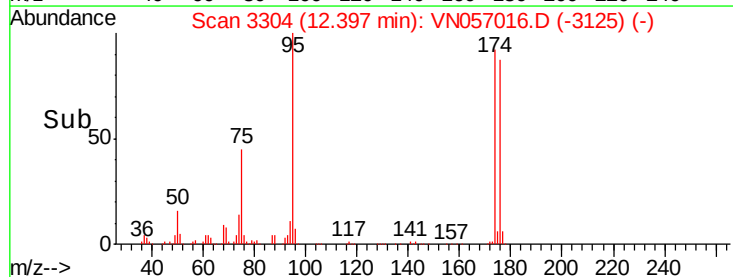
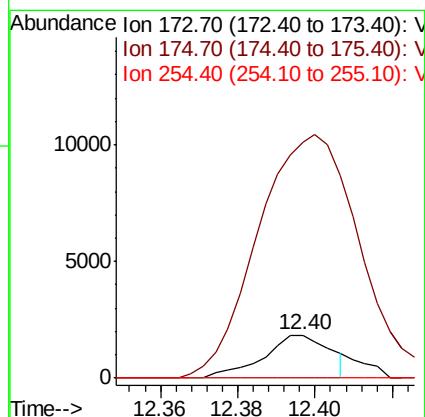
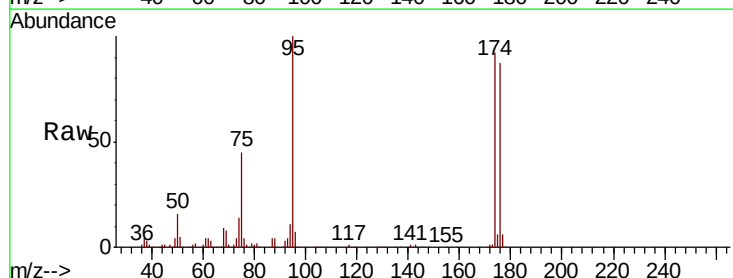
Instrument :
MSVOA_N
ClientSampleId :
SS-09_072919

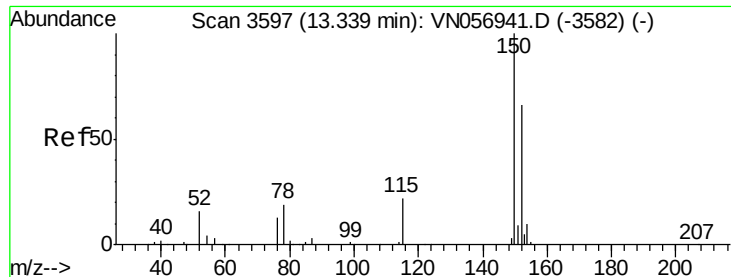
Tot Ion:104 Resp: 311
Ion Ratio Lower Upper
104 100
78 9.6 38.1 57.1#
103 19.3 44.3 66.5#



#71
Bromoform
Concen: 0.583 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN057016.D
Acq: 31 Jul 2019 15:50

Tgt Ion:173 Resp: 2219
Ion Ratio Lower Upper
173 100
175 679.0 24.1 72.4#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN057016.D

Acq: 31 Jul 2019 15:50

Instrument :

MSVOA_N

ClientSampleId :

SS-09_072919

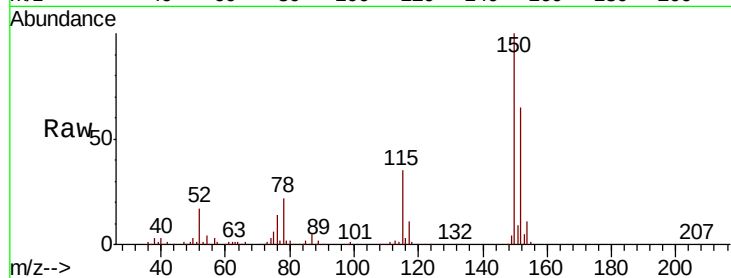
Tot Ion:152 Resp: 202073

Ion Ratio Lower Upper

152 100

115 55.3 28.2 84.6

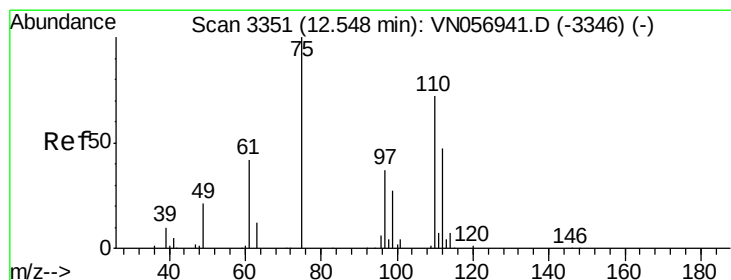
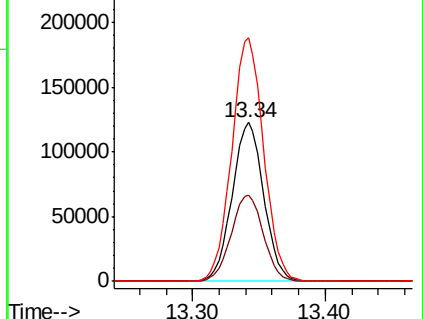
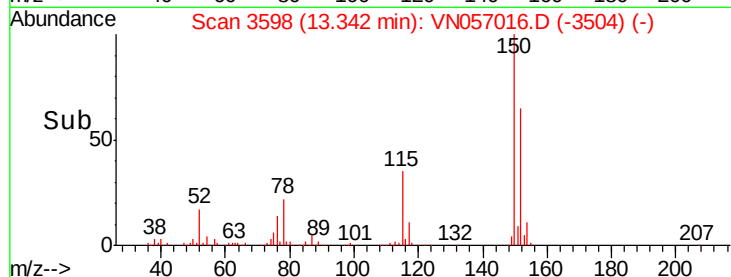
150 155.1 0.0 349.4



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



#76

1,2,3-Trichloropropane

Concen: 29.936 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN057016.D

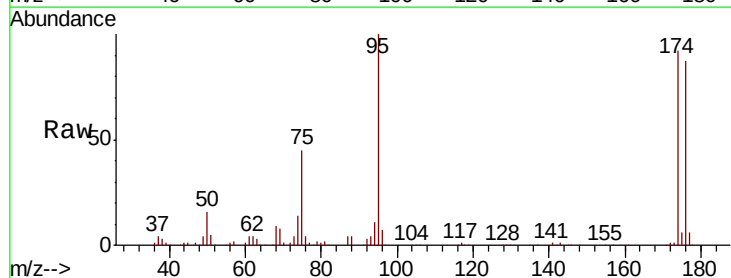
Acq: 31 Jul 2019 15:50

Tgt Ion: 75 Resp: 122850

Ion Ratio Lower Upper

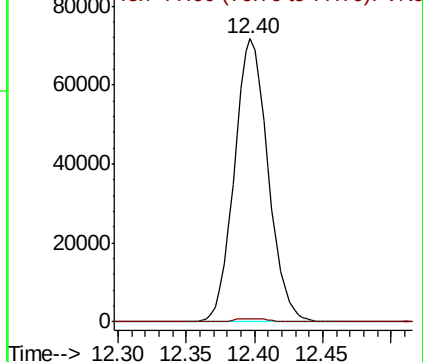
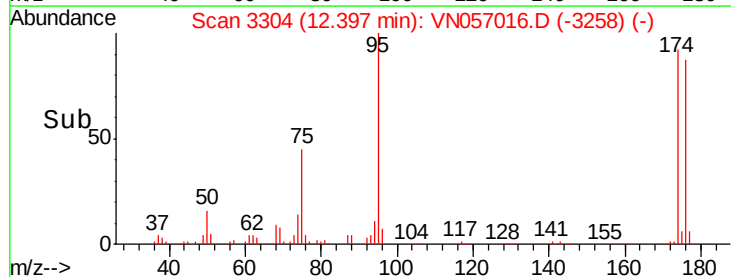
75 100

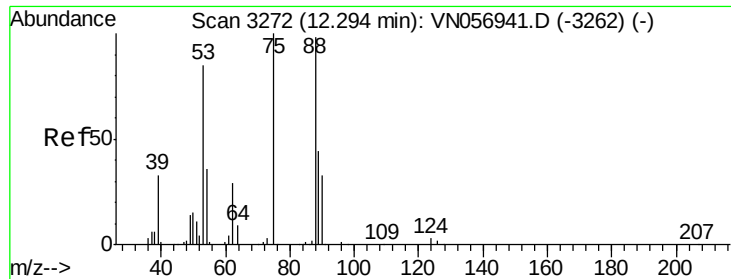
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V

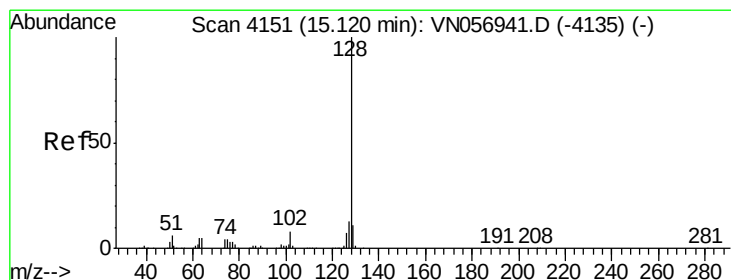
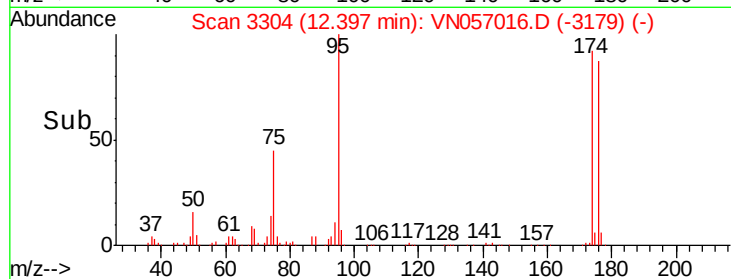
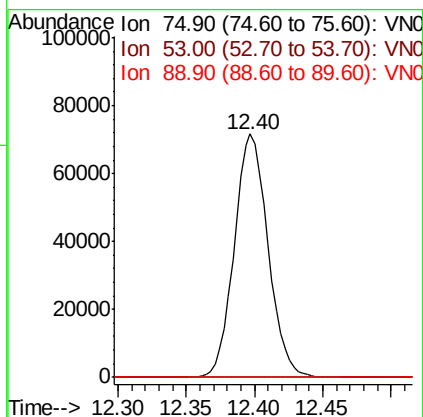
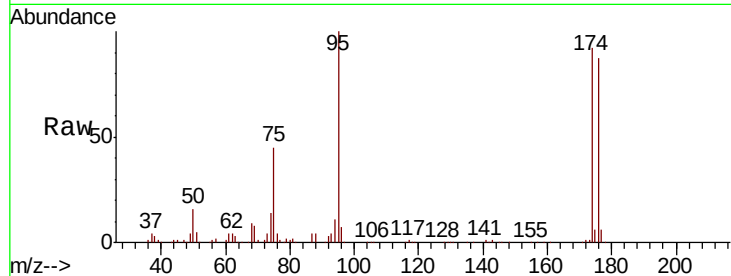




#81
trans-1,4-Dichloro-2-butene
Concen: 96.183 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.10 min
Lab File: VN057016.D
Acq: 31 Jul 2019 15:50

Instrument :
MSVOA_N
ClientSampleId :
SS-09_072919

Tot Ion: 75 Resp: 122850
Ion Ratio Lower Upper
75 100
53 0.0 69.3 103.9#
89 0.0 35.8 53.6#



#95
Naphthalene
Concen: 3.591 ug/l
RT: 15.11 min Scan# 4149
Delta R.T. -0.01 min
Lab File: VN057016.D
Acq: 31 Jul 2019 15:50

Tgt Ion: 128 Resp: 30
Ion Ratio Lower Upper
128 100
127 0.0 10.0 15.0#
129 0.0 8.7 13.1#

