

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061920\
 Data File : VN061960.D
 Acq On : 19 Jun 2020 18:23
 Operator : JC/MD
 Sample : L3033-02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 SS043MW010-200615

Quant Time: Jun 20 07:36:22 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	146166	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	269504	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	261257	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	98974	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	99083	50.54	ug/l	0.00
Spiked Amount			Recovery	=	101.08%	
35) Dibromofluoromethane	7.55	113	87398	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	
50) Toluene-d8	10.06	98	338478	49.94	ug/l	0.00
Spiked Amount			Recovery	=	99.88%	
62) 4-Bromofluorobenzene	12.38	95	109116	46.93	ug/l	0.00
Spiked Amount			Recovery	=	93.86%	

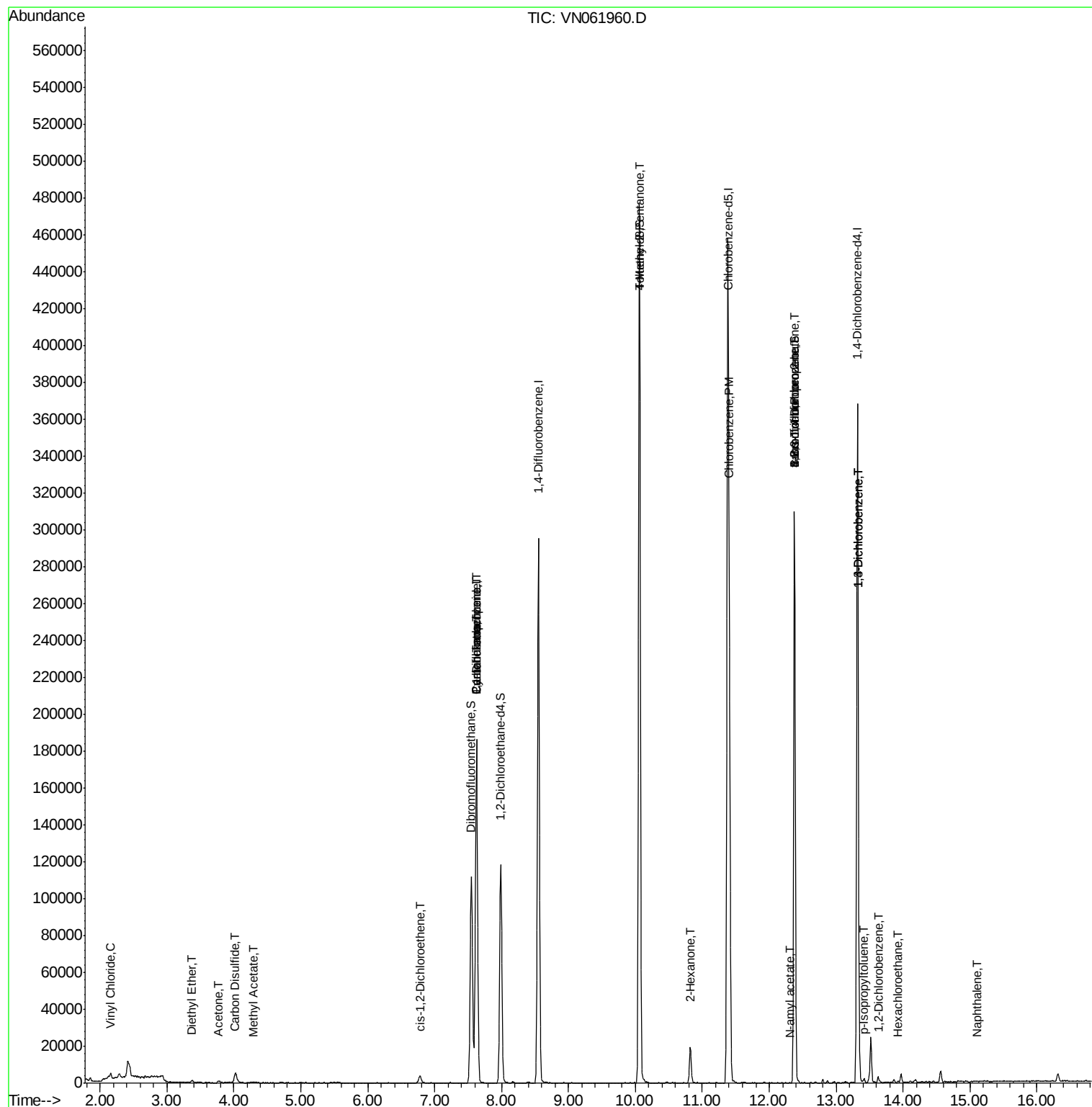
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
4) Vinyl Chloride	2.16	62	1906	0.788	ug/l #	88
8) Diethyl Ether	3.38	74	818	0.842	ug/l	91
16) Acetone	3.77	43	1107	1.912	ug/l	91
17) Carbon Disulfide	4.00	76	1275	0.293	ug/l #	75
18) Methyl Acetate	4.28	43	893	0.536	ug/l #	46
27) cis-1,2-Dichloroethene	6.79	96	570	0.290	ug/l #	9
31) Cyclohexane	7.63	56	3518	1.362	ug/l #	11
36) 1,1-Dichloropropene	7.63	75	11663	4.745	ug/l #	49
38) Carbon Tetrachloride	7.62	117	14614	6.003	ug/l #	17
51) 4-Methyl-2-Pentanone	10.06	43	1387	0.726	ug/l #	1
59) 2-Hexanone	10.82	43	205	13.534	ug/l #	1
65) Chlorobenzene	11.41	112	115590	20.968	ug/l	100
71) Bromoform	12.38	173	1014	0.723	ug/l #	1
74) N-amyl acetate	12.31	43	31	3.076	ug/l #	38
76) 1,2,3-Trichloropropane	12.38	75	55244	28.431	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	55244	77.543	ug/l #	14
86) p-Isopropyltoluene	13.42	119	1495	0.260	ug/l	86
87) 1,3-Dichlorobenzene	13.34	146	9339	2.886	ug/l	87
88) 1,4-Dichlorobenzene	13.34	146	9339	2.819	ug/l	86
90) Hexachloroethane	13.93	117	503	0.478	ug/l #	15
91) 1,2-Dichlorobenzene	13.63	146	1561	0.501	ug/l	95
95) Naphthalene	15.11	128	239	3.528	ug/l #	69

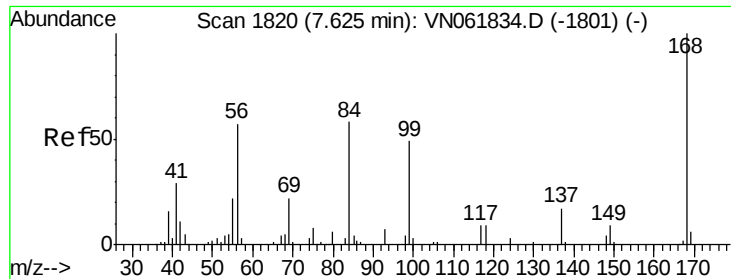
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 17 01:19:44 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061960.D

Acq: 19 Jun 2020 18:23

Instrument :

MSVOA_N

ClientSampleId :

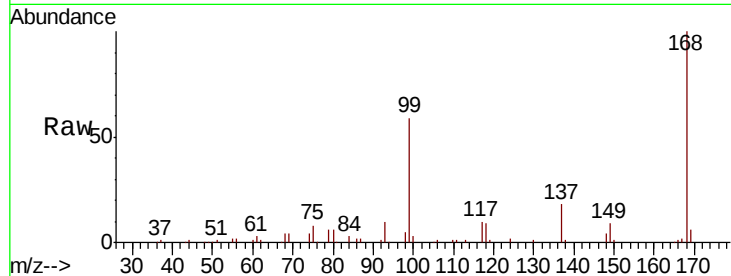
SS043MW010-200615

Tot Ion:168 Resp: 146166

Ion Ratio Lower Upper

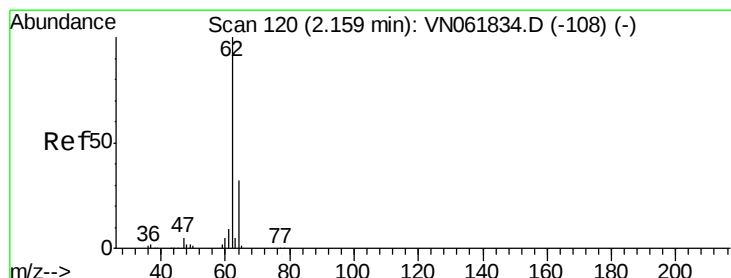
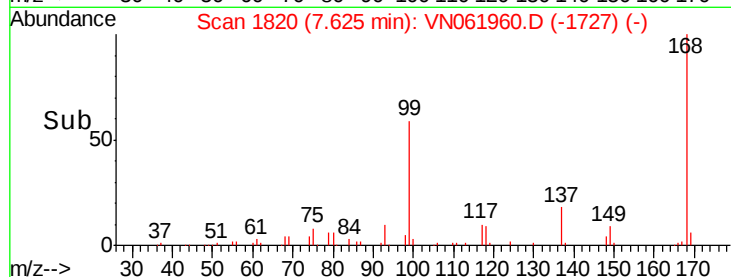
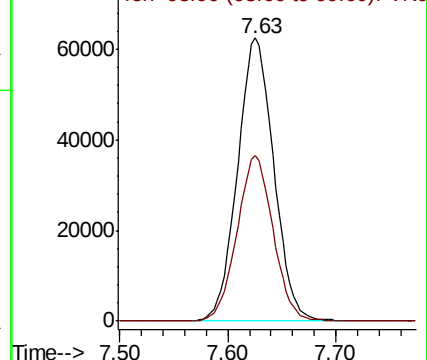
168 100

99 58.5 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#4

Vinyl Chloride

Concen: 0.788 ug/l

RT: 2.16 min Scan# 120

Delta R.T. -0.00 min

Lab File: VN061960.D

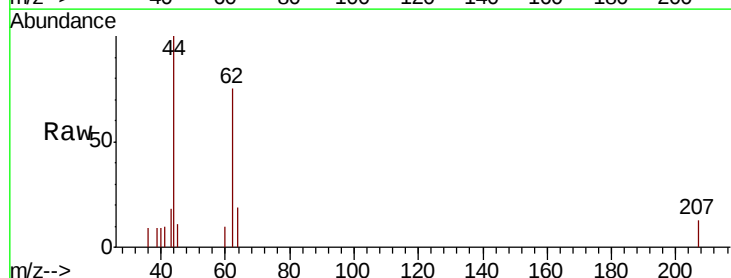
Acq: 19 Jun 2020 18:23

Tgt Ion: 62 Resp: 1906

Ion Ratio Lower Upper

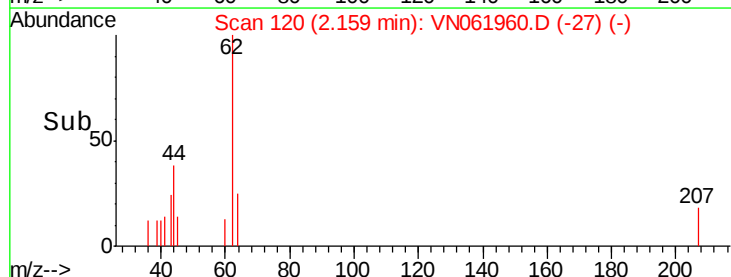
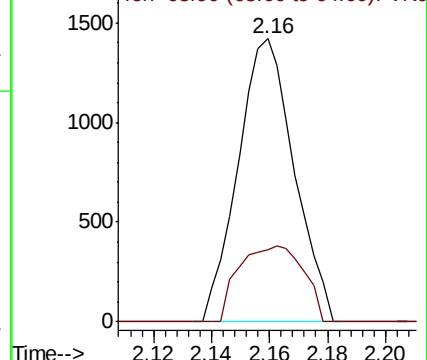
62 100

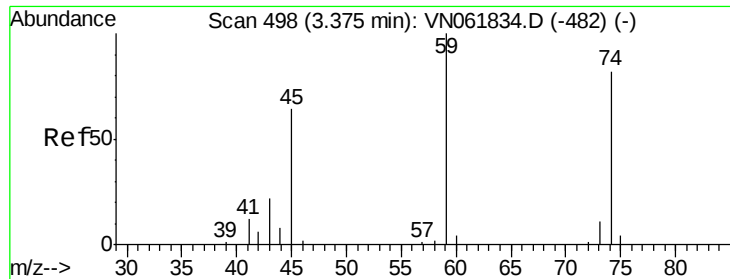
64 25.3 25.5 38.3#



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#8

Diethyl Ether

Concen: 0.842 ug/l

RT: 3.38 min Scan# 499

Delta R.T. 0.00 min

Lab File: VN061960.D

Acq: 19 Jun 2020 18:23

Instrument :

MSVOA_N

ClientSampleId :

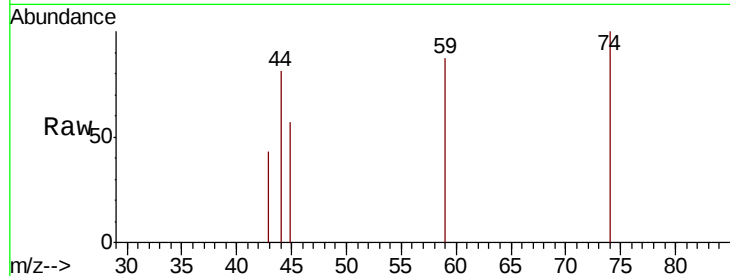
SS043MW010-200615

Tot Ion: 74 Resp: 818

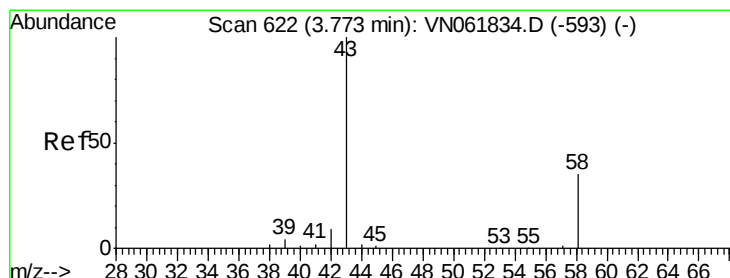
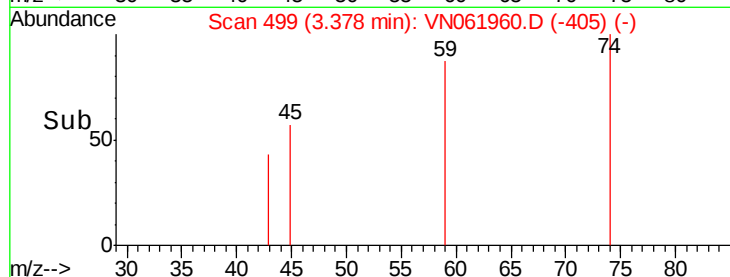
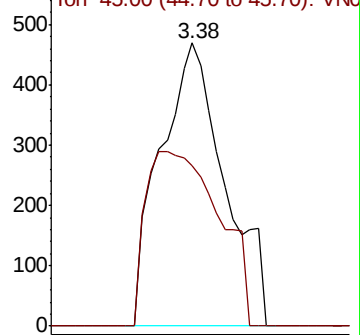
Ion Ratio Lower Upper

74 100

45 70.3 39.1 117.3



Abundance Ion 74.00 (73.70 to 74.70): VN061834.D (-482) (-)



#16

Acetone

Concen: 1.912 ug/l

RT: 3.77 min Scan# 622

Delta R.T. -0.00 min

Lab File: VN061960.D

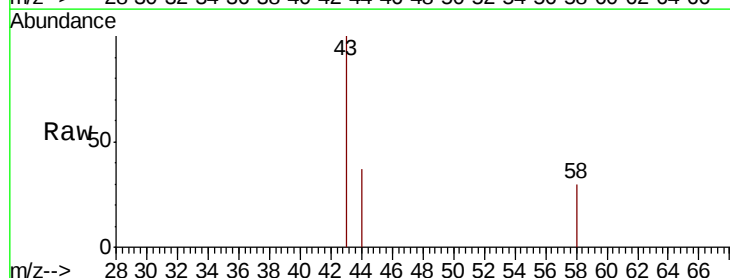
Acq: 19 Jun 2020 18:23

Tgt Ion: 43 Resp: 1107

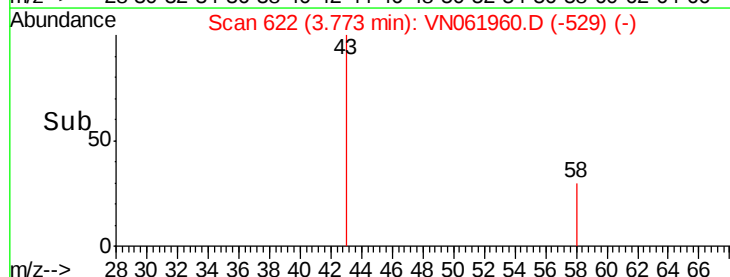
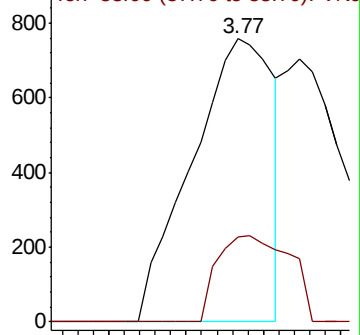
Ion Ratio Lower Upper

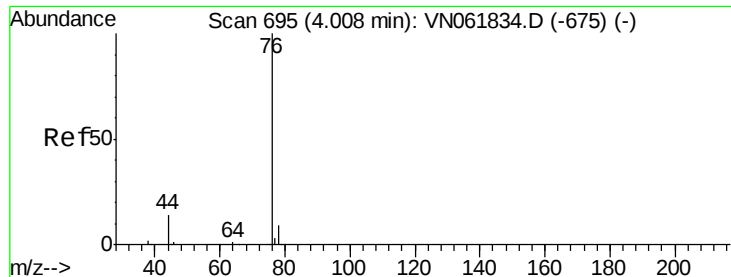
43 100

58 29.8 27.8 41.8



Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-593) (-)





#17

Carbon Disulfide

Concen: 0.293 ug/l

RT: 4.00 min Scan# 693

Delta R.T. -0.01 min

Lab File: VN061960.D

Acq: 19 Jun 2020 18:23

Instrument :

MSVOA_N

ClientSampleId :

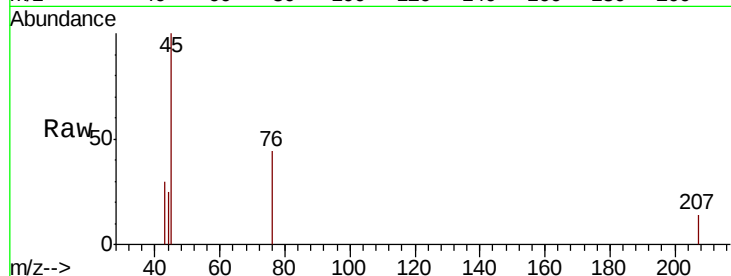
SS043MW010-200615

Tot Ion: 76 Resp: 1275

Ion Ratio Lower Upper

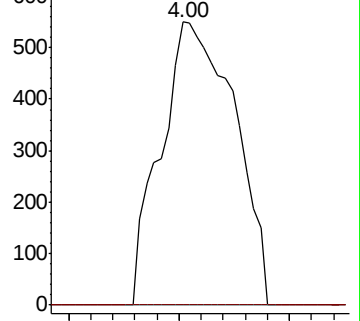
76 100

78 0.0 7.3 10.9#

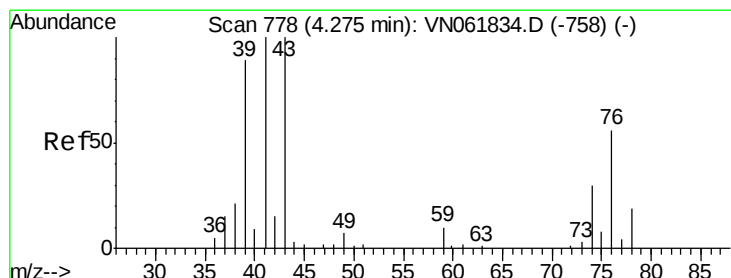
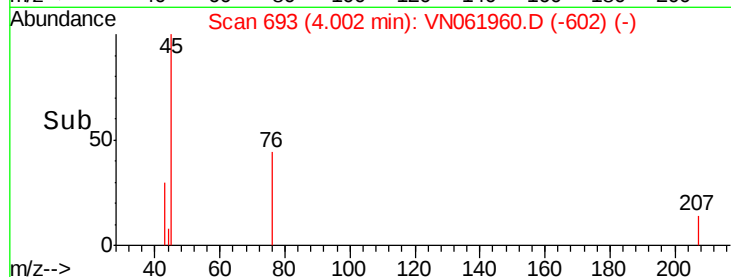


Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



Time-->



#18

Methyl Acetate

Concen: 0.536 ug/l

RT: 4.28 min Scan# 780

Delta R.T. 0.01 min

Lab File: VN061960.D

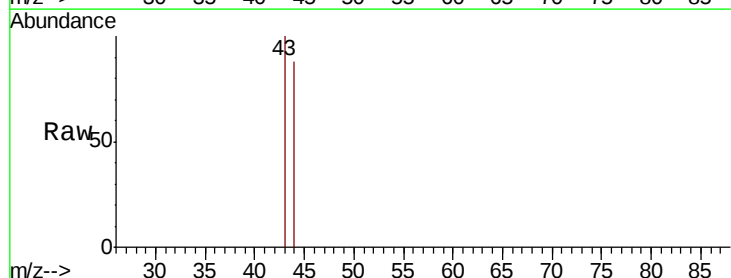
Acq: 19 Jun 2020 18:23

Tgt Ion: 43 Resp: 893

Ion Ratio Lower Upper

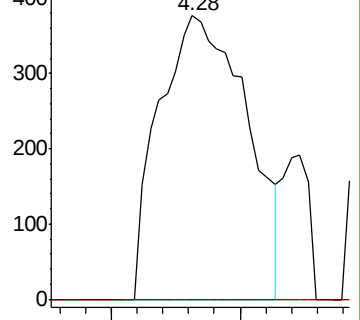
43 100

74 0.0 23.0 34.4#

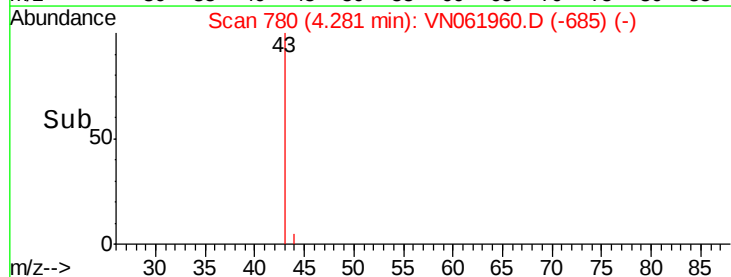


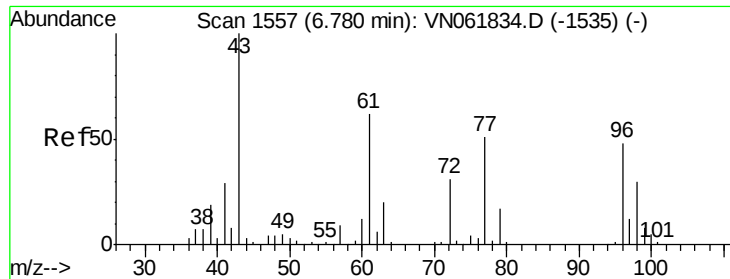
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



Time-->

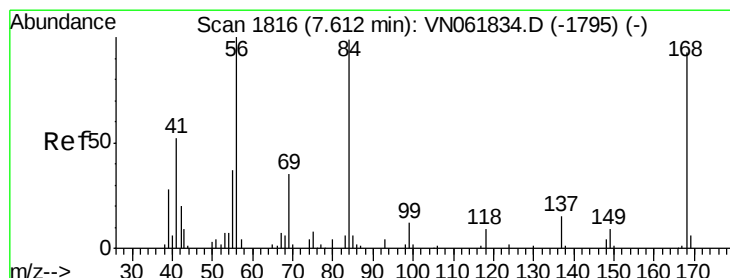
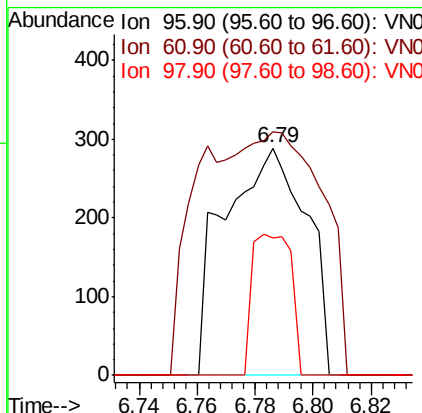
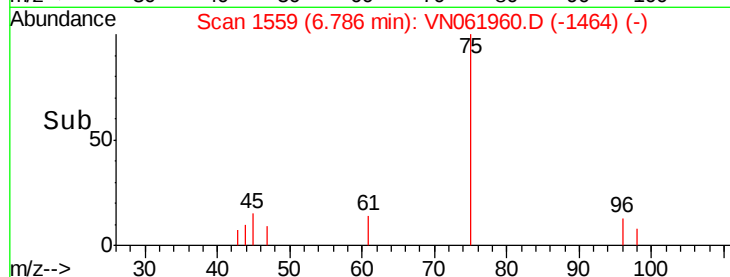
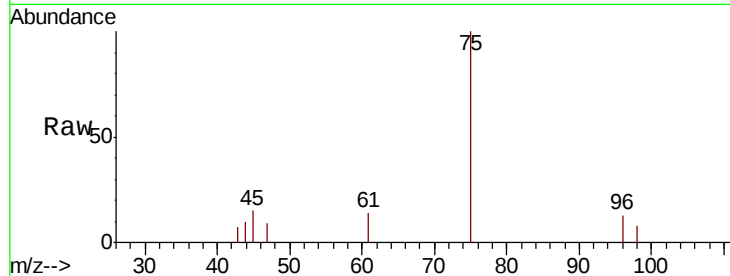




#27
 cis-1,2-Dichloroethene
 Concen: 0.290 ug/l
 RT: 6.79 min Scan# 1559
 Delta R.T. 0.01 min
 Lab File: VN061960.D
 Acq: 19 Jun 2020 18:23

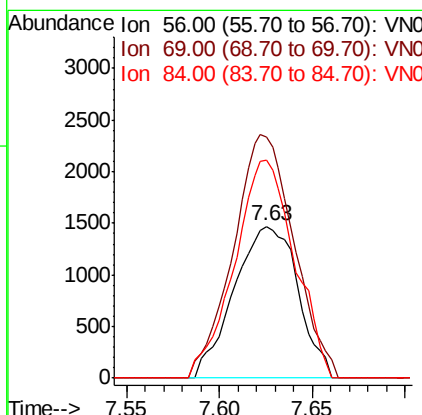
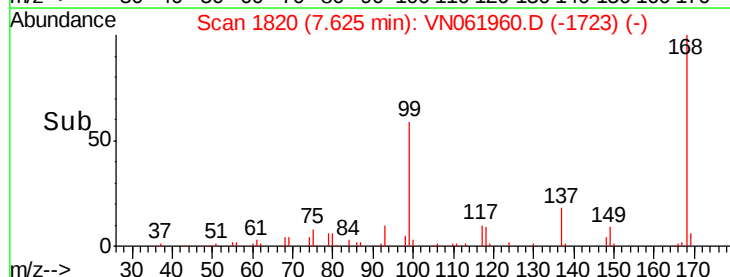
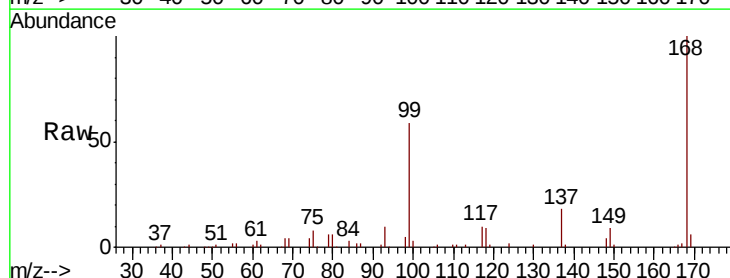
Instrument :
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 SS043MW010-200615

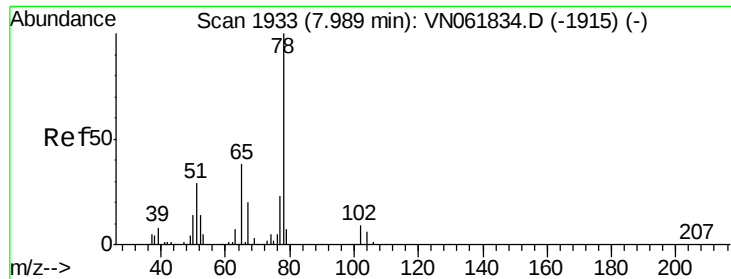
Tot Ion: 96 Resp: 570
 Ion Ratio Lower Upper
 96 100
 61 0.0 0.0 265.6
 98 28.9 0.0 128.2



#31
 Cyclohexane
 Concen: 1.362 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. 0.01 min
 Lab File: VN061960.D
 Acq: 19 Jun 2020 18:23

Tgt Ion: 56 Resp: 3518
 Ion Ratio Lower Upper
 56 100
 69 158.6 27.7 41.5#
 84 143.6 79.1 118.7#





#33

1,2-Dichloroethane-d4

Concen: 50.545 ug/l

RT: 7.99 min Scan# 1932

Delta R.T. -0.00 min

Lab File: VN061960.D

Acq: 19 Jun 2020 18:23

Instrument :

MSVOA_N

ClientSampleId :

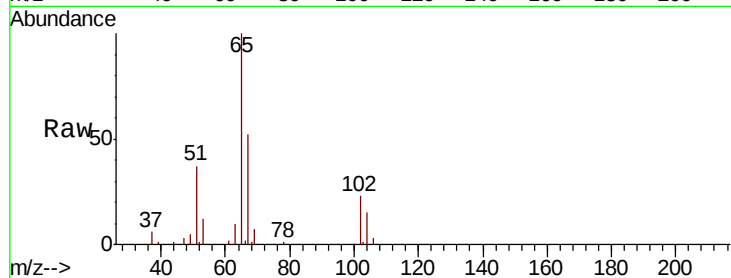
SS043MW010-200615

Tot Ion: 65 Resp: 99083

Ion Ratio Lower Upper

65 100

67 52.4 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VN061834.D (-1915) (-)

Ion 66.90 (66.60 to 67.60): VN061834.D (-1915) (-)

7.99

40000

30000

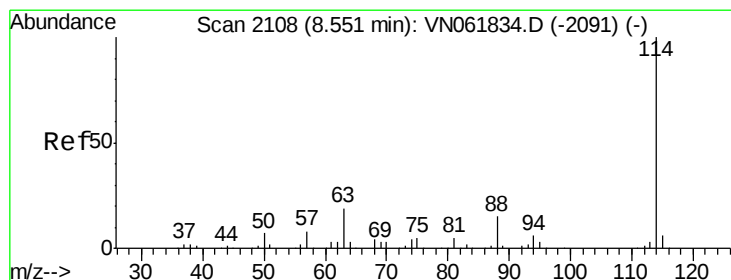
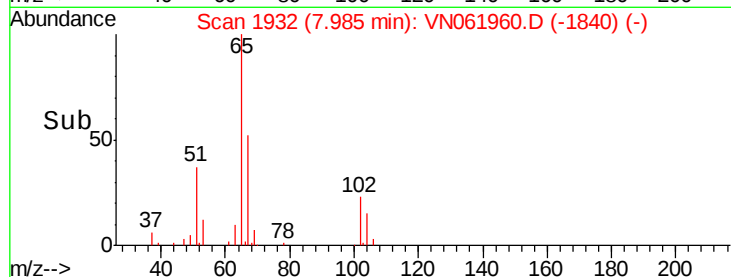
20000

10000

0

7.90 8.00 8.10

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.55 min Scan# 2108

Delta R.T. -0.00 min

Lab File: VN061960.D

Acq: 19 Jun 2020 18:23

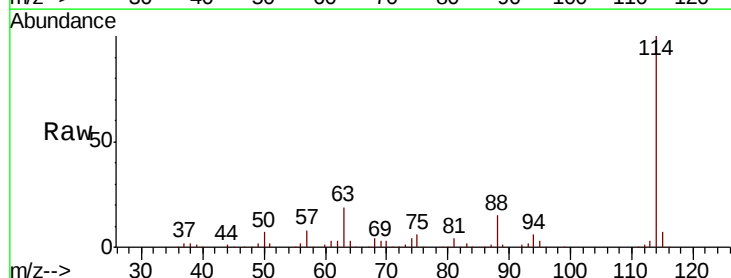
Tgt Ion: 114 Resp: 269504

Ion Ratio Lower Upper

114 100

63 19.0 0.0 37.6

88 15.1 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): VN061834.D (-2091) (-)

Ion 63.00 (62.70 to 63.70): VN061834.D (-2091) (-)

Ion 87.90 (87.60 to 88.60): VN061834.D (-2091) (-)

8.55

150000

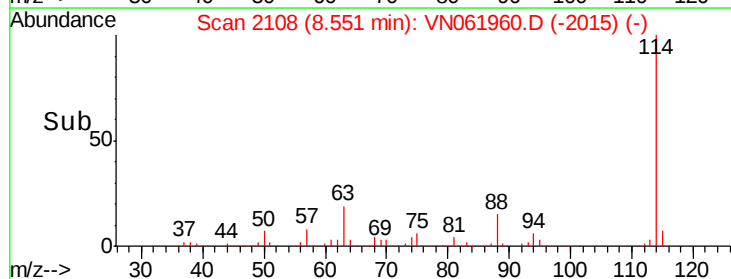
100000

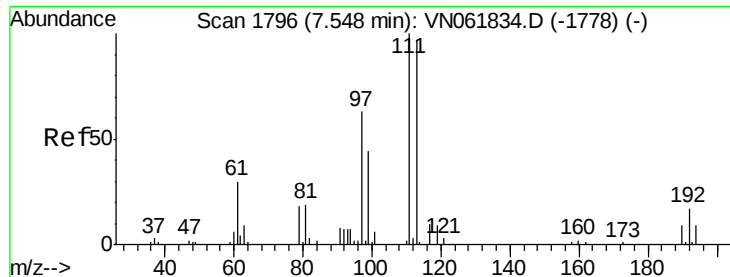
50000

0

8.50 8.60

Time-->

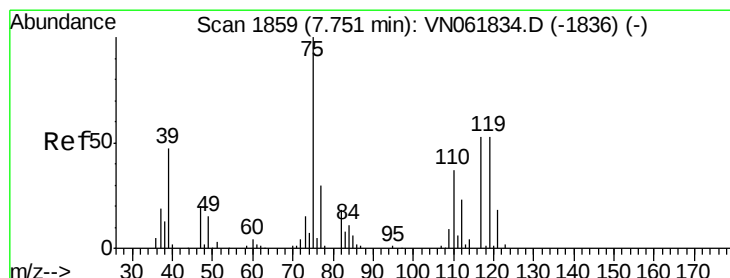
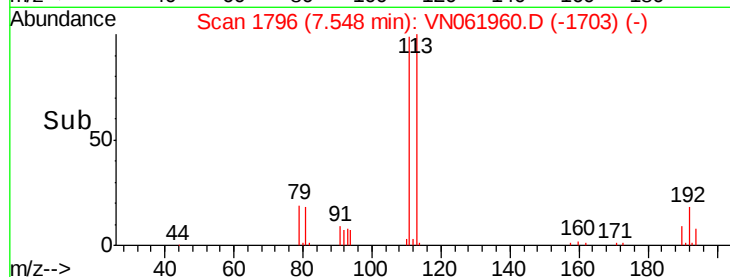
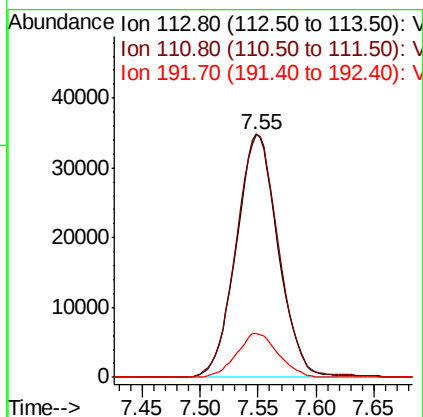
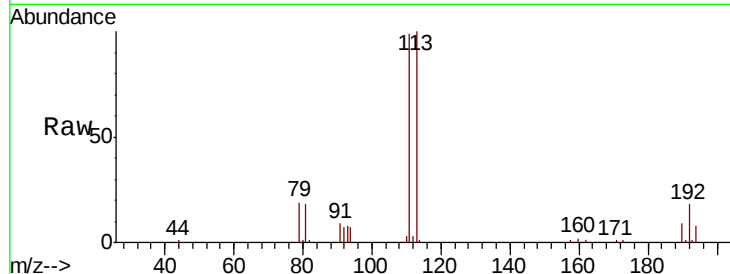




#35
 Dibromofluoromethane
 Concen: 50.691 ug/l
 RT: 7.55 min Scan# 1796
 Delta R.T. -0.00 min
 Lab File: VN061960.D
 Acq: 19 Jun 2020 18:23

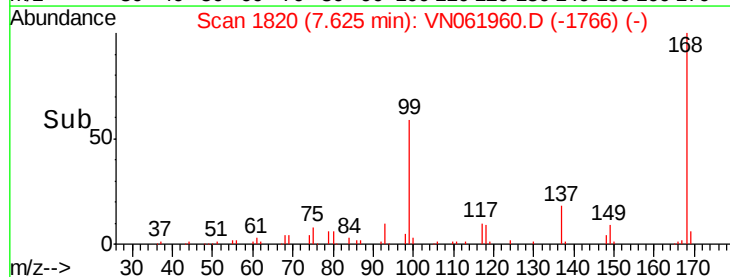
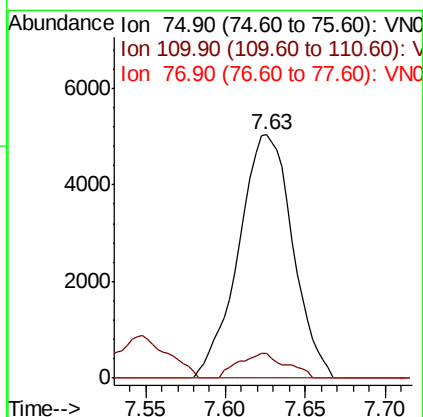
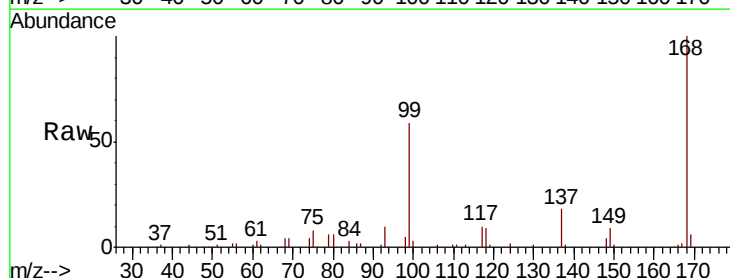
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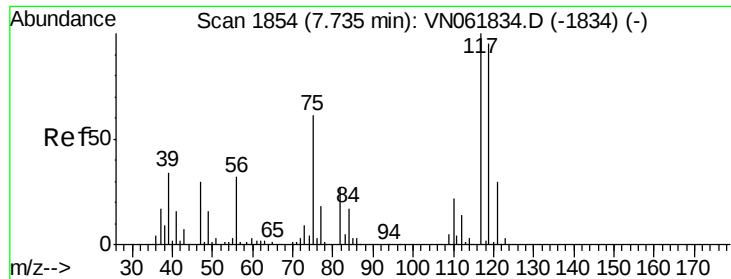
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.4	83.7	125.5
192	18.0	13.9	20.9



#36
 1,1-Dichloropropene
 Concen: 4.745 ug/l
 RT: 7.63 min Scan# 1820
 Delta R.T. -0.13 min
 Lab File: VN061960.D
 Acq: 19 Jun 2020 18:23

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.9	18.2	54.6#
77	0.0	24.2	36.4#





#38

Carbon Tetrachloride

Concen: 6.003 ug/l

RT: 7.62 min Scan# 1819

Delta R.T. -0.11 min

Lab File: VN061960.D

Acq: 19 Jun 2020 18:23

Instrument :

MSVOA_N

ClientSampleId :

SS043MW010-200615

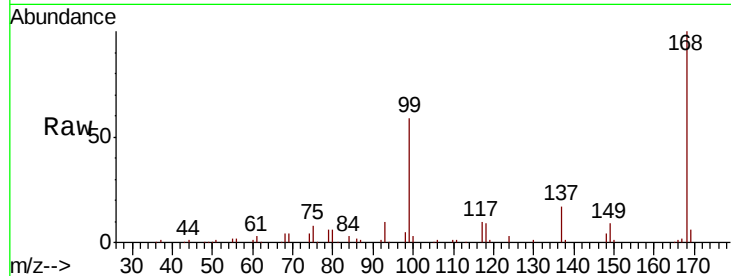
Tot Ion:117 Resp: 14614

Ion Ratio Lower Upper

117 100

119 5.7 75.8 113.6#

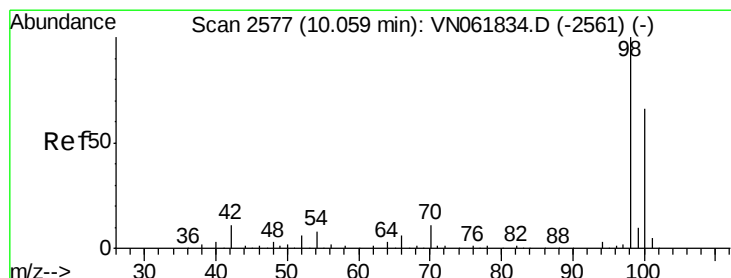
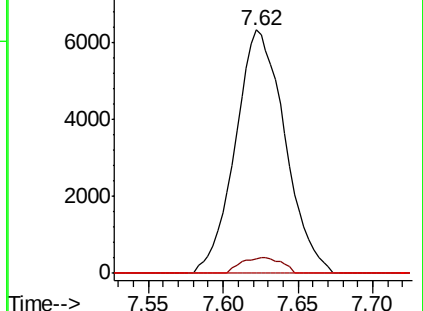
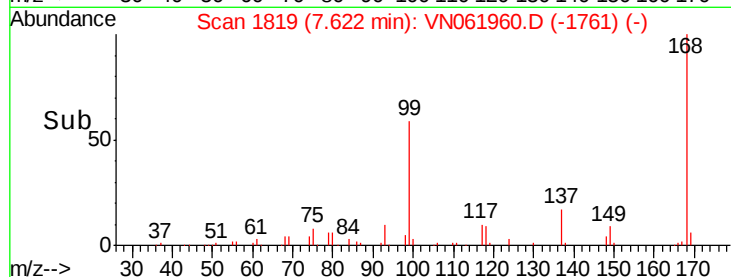
121 0.0 23.8 35.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 49.935 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. -0.00 min

Lab File: VN061960.D

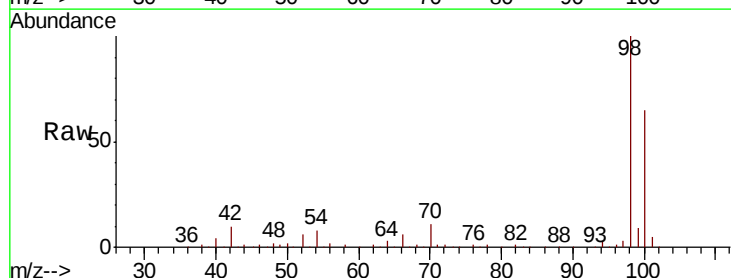
Acq: 19 Jun 2020 18:23

Tgt Ion: 98 Resp: 338478

Ion Ratio Lower Upper

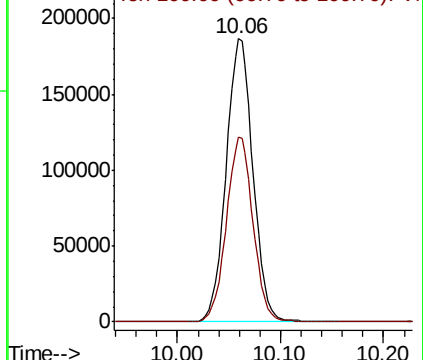
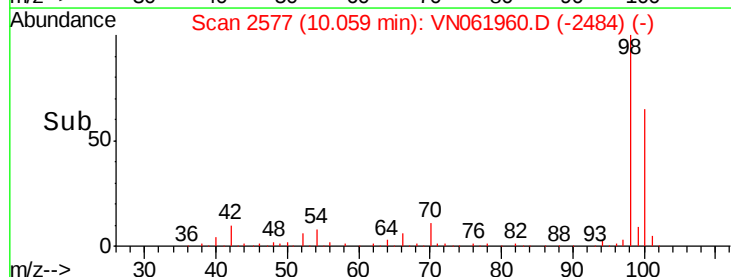
98 100

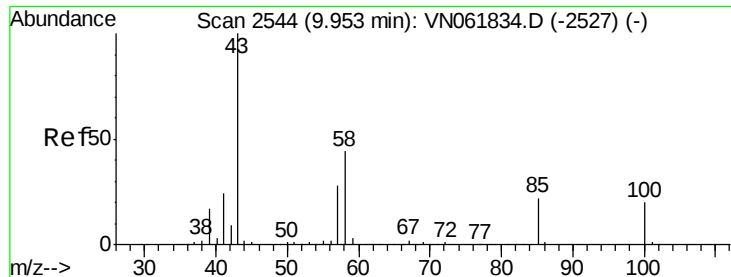
100 64.8 52.7 79.1



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

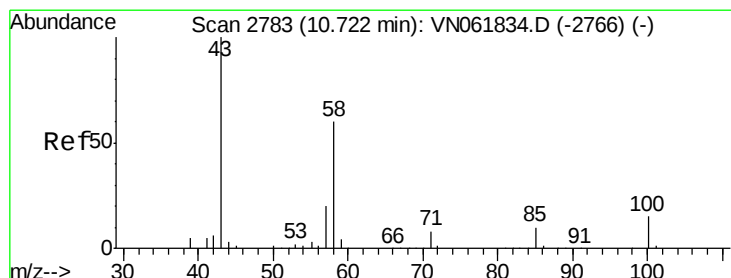
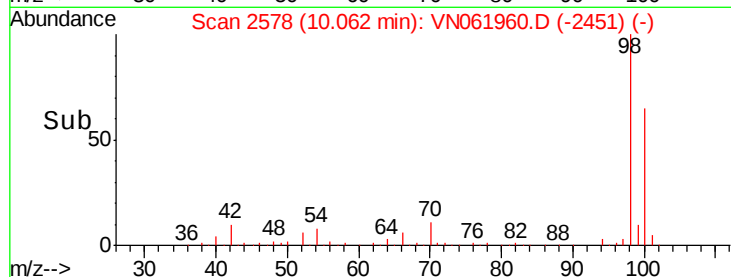
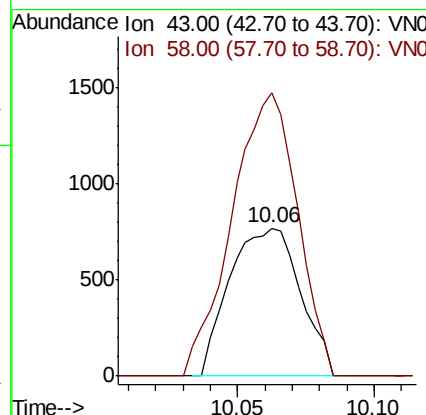
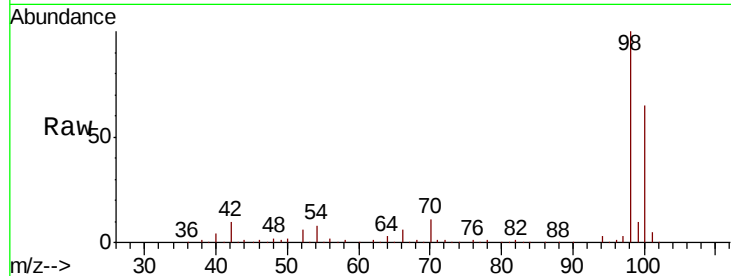




#51
 4-Methyl-2-Pentanone
 Concen: 0.726 ug/l
 RT: 10.06 min Scan# 2578
 Delta R.T. 0.11 min
 Lab File: VN061960.D
 Acq: 19 Jun 2020 18:23

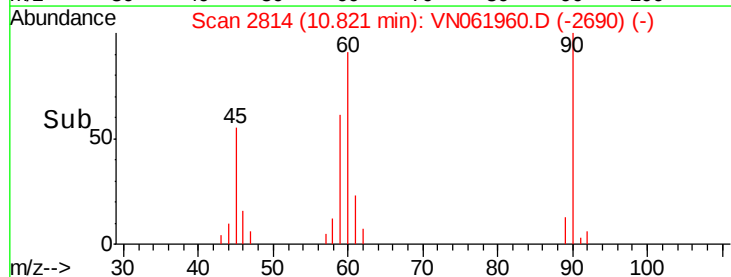
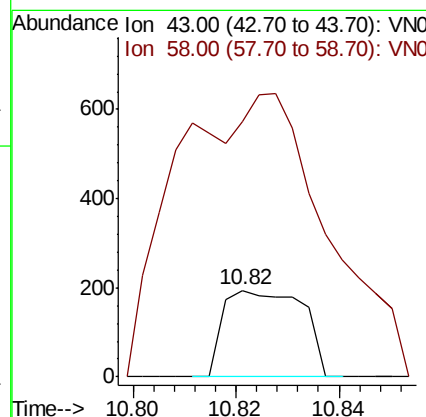
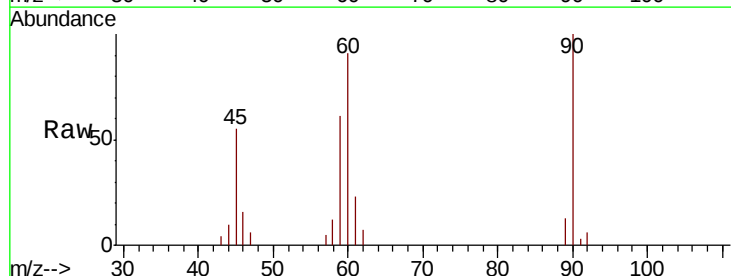
Instrument :
 MSVOA_N
 ClientSampleId :
 SS043MW010-200615

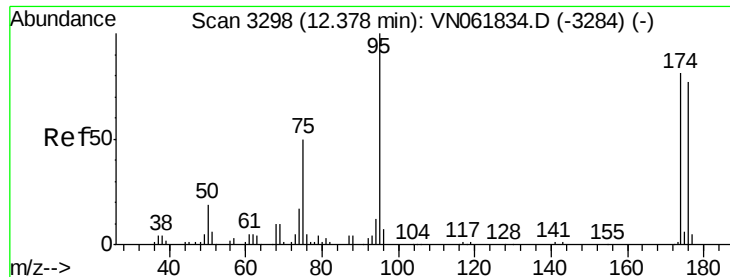
Tot Ion: 43 Resp: 1387
 Ion Ratio Lower Upper
 43 100
 58 177.0 34.6 52.0#



#59
 2-Hexanone
 Concen: 13.534 ug/l
 RT: 10.82 min Scan# 2814
 Delta R.T. 0.10 min
 Lab File: VN061960.D
 Acq: 19 Jun 2020 18:23

Tgt Ion: 43 Resp: 205
 Ion Ratio Lower Upper
 43 100
 58 630.7 30.1 90.5#





#62

4-Bromofluorobenzene

Concen: 46.930 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.00 min

Lab File: VN061960.D

Acq: 19 Jun 2020 18:23

Instrument :

MSVOA_N

ClientSampleId :

SS043MW010-200615

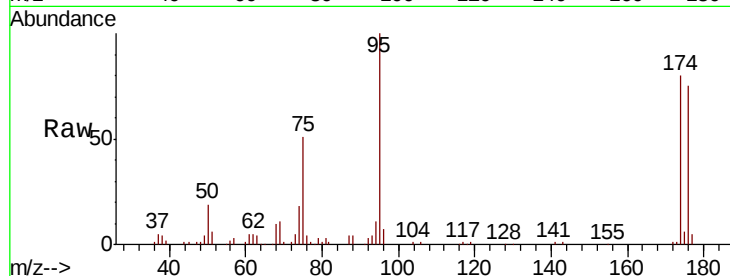
Tot Ion: 95 Resp: 109116

Ion Ratio Lower Upper

95 100

174 79.6 0.0 158.6

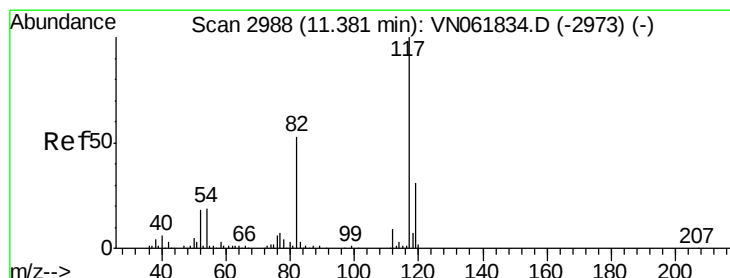
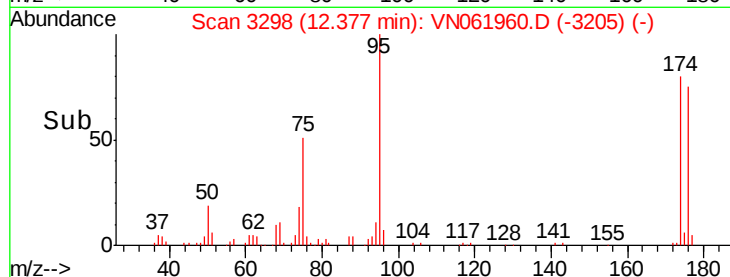
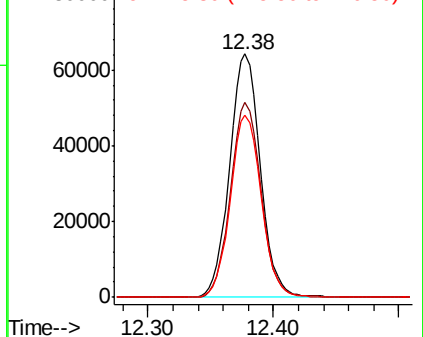
176 75.5 0.0 152.0



Abundance Ion 94.90 (94.60 to 95.60): VN061834.D (-3284) (-)

Ion 173.80 (173.50 to 174.50): VN061834.D (-3284) (-)

Ion 175.80 (175.50 to 176.50): VN061834.D (-3284) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.38 min Scan# 2988

Delta R.T. -0.00 min

Lab File: VN061960.D

Acq: 19 Jun 2020 18:23

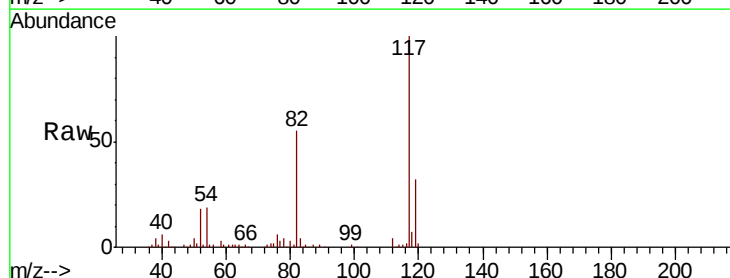
Tgt Ion: 117 Resp: 261257

Ion Ratio Lower Upper

117 100

82 54.6 42.6 64.0

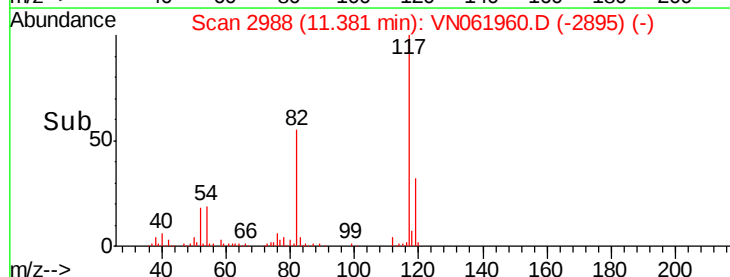
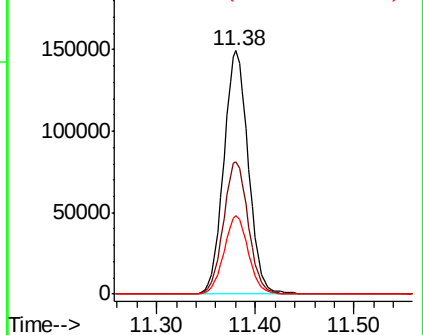
119 32.2 24.7 37.1

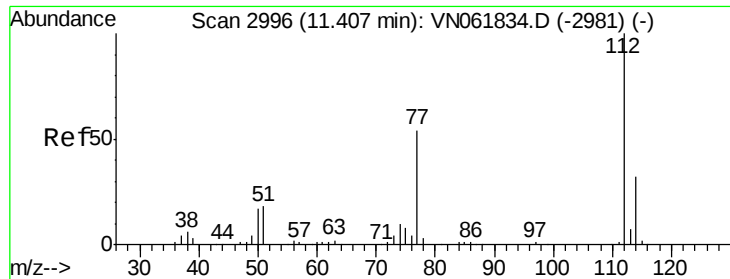


Abundance Ion 116.90 (116.60 to 117.60): VN061834.D (-2973) (-)

Ion 82.00 (81.70 to 82.70): VN061834.D (-2973) (-)

Ion 118.90 (118.60 to 119.60): VN061834.D (-2973) (-)

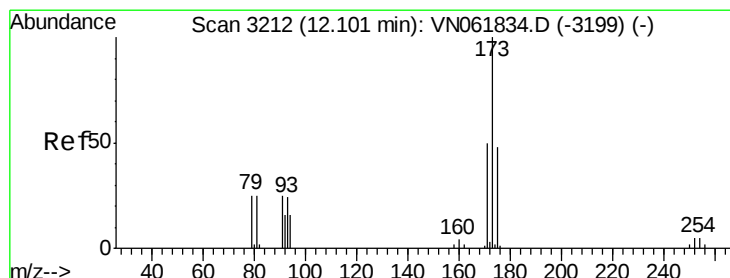
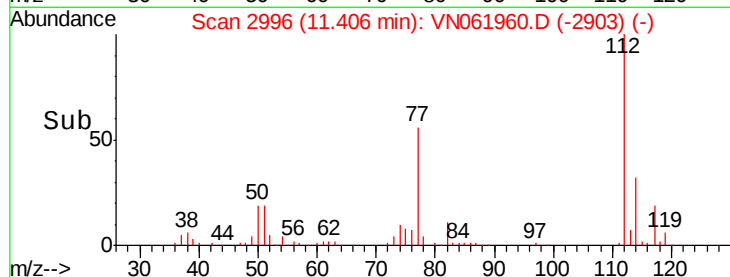
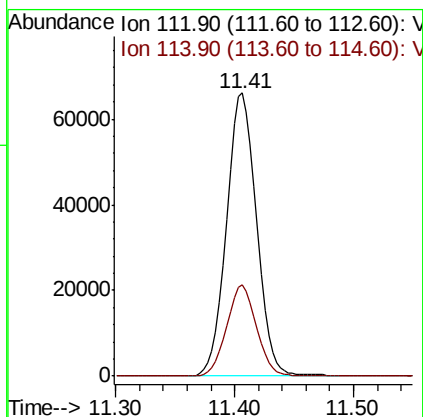
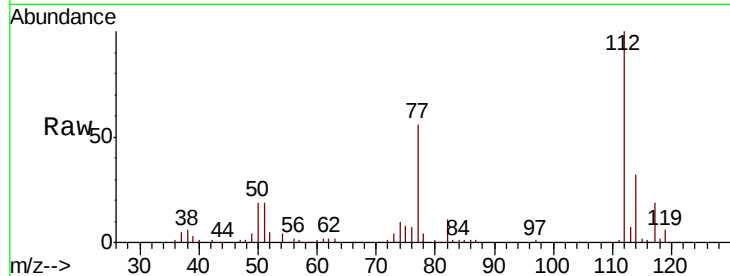




#65
Chlorobenzene
Concen: 20.968 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN061960.D
Acq: 19 Jun 2020 18:23

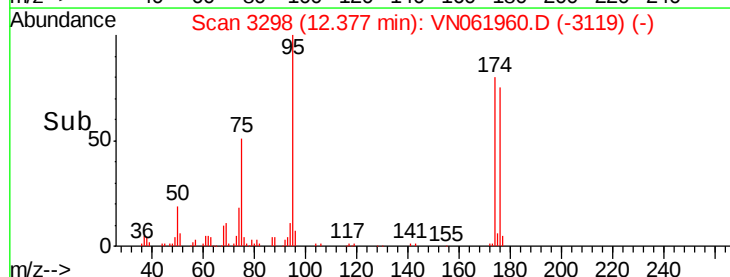
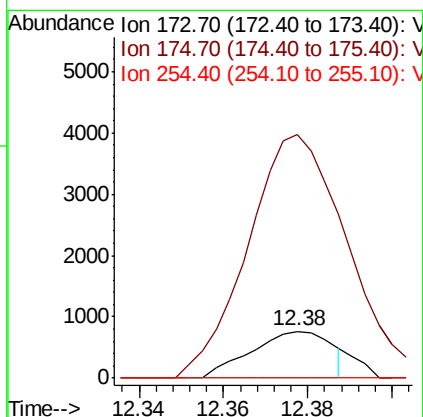
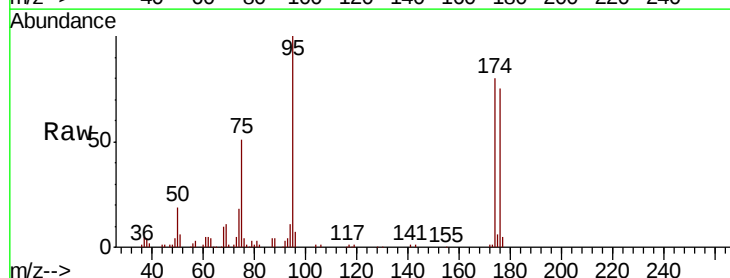
Instrument :
MSVOA_N
ClientSampleId :
SS043MW010-200615

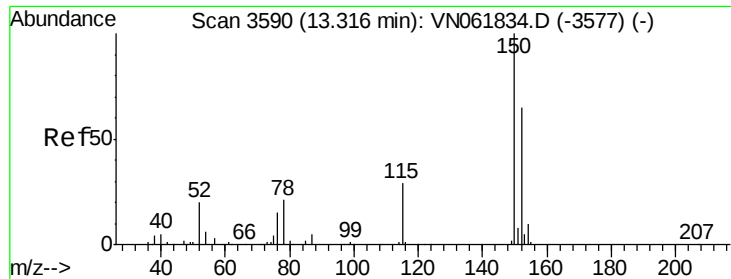
Tot Ion:112 Resp: 115590
Ion Ratio Lower Upper
112 100
114 32.2 25.8 38.6



#71
Bromoform
Concen: 0.723 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. 0.28 min
Lab File: VN061960.D
Acq: 19 Jun 2020 18:23

Tgt Ion:173 Resp: 1014
Ion Ratio Lower Upper
173 100
175 535.3 23.9 71.7#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061960.D

Acq: 19 Jun 2020 18:23

Instrument :

MSVOA_N

ClientSampleId :

SS043MW010-200615

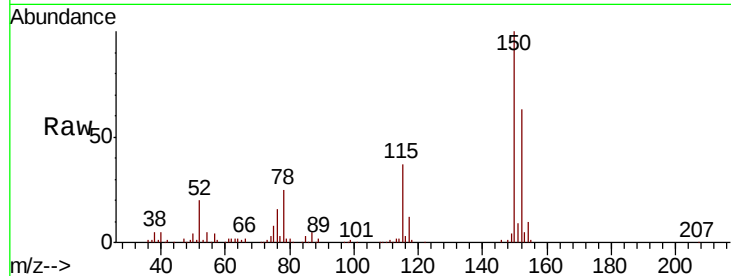
Tot Ion:152 Resp: 98974

Ion Ratio Lower Upper

152 100

115 59.0 29.1 87.3

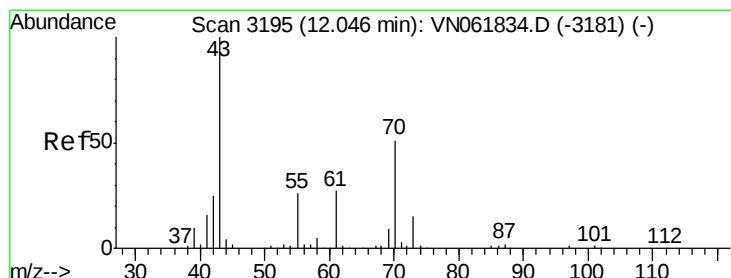
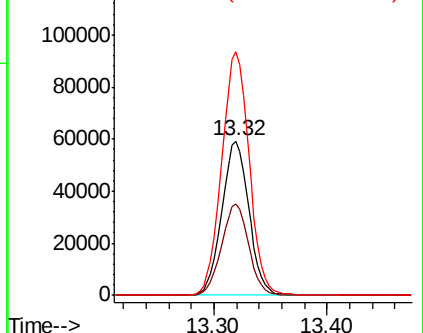
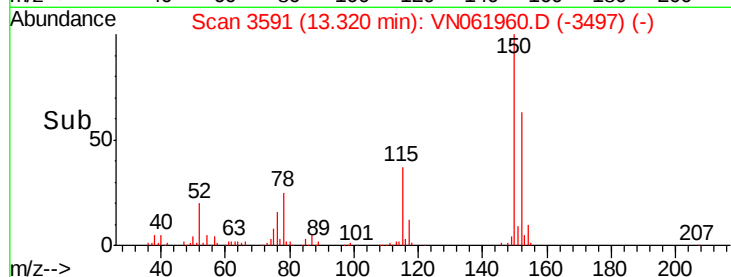
150 159.5 0.0 347.6



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: 3.076 ug/l

RT: 12.31 min Scan# 3276

Delta R.T. 0.26 min

Lab File: VN061960.D

Acq: 19 Jun 2020 18:23

Tgt Ion: 43 Resp: 31

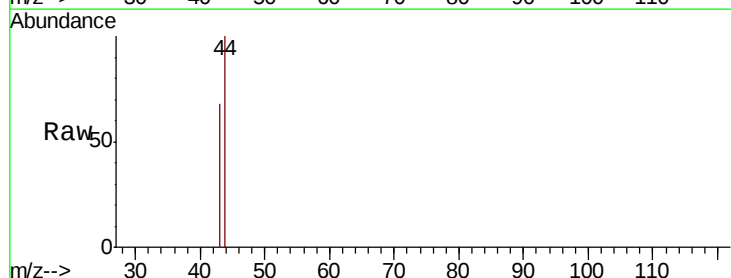
Ion Ratio Lower Upper

43 100

70 0.0 40.6 60.8#

55 0.0 21.5 32.3#

61 0.0 21.6 32.4#

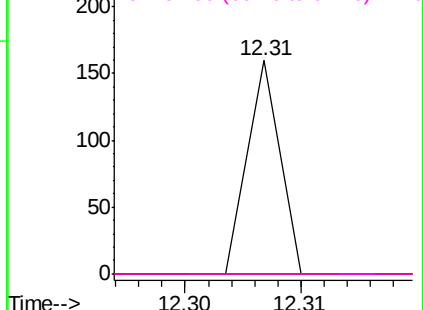
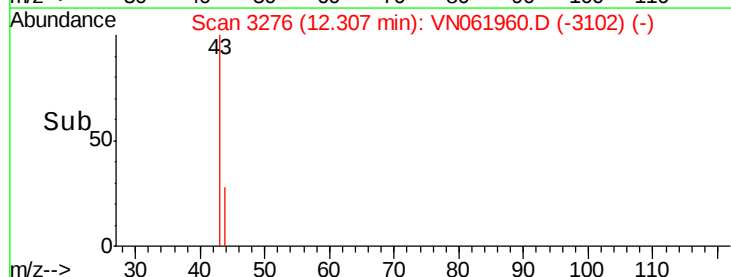


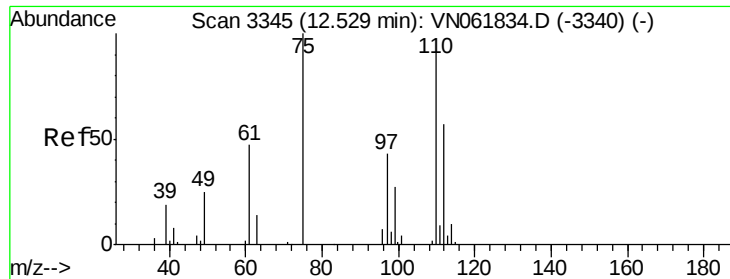
Abundance Ion 43.00 (42.70 to 43.70): V

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: 28.431 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. -0.15 min

Lab File: VN061960.D

Acq: 19 Jun 2020 18:23

Instrument :

MSVOA_N

ClientSampleId :

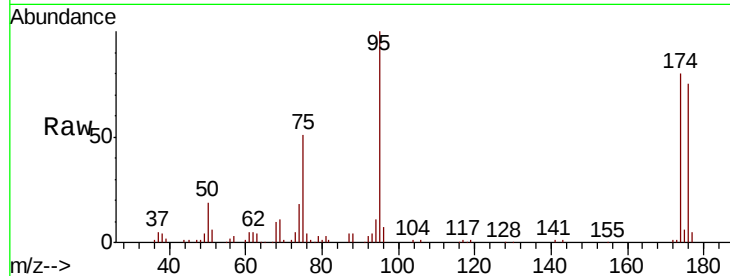
SS043MW010-200615

Tot Ion: 75 Resp: 55244

Ion Ratio Lower Upper

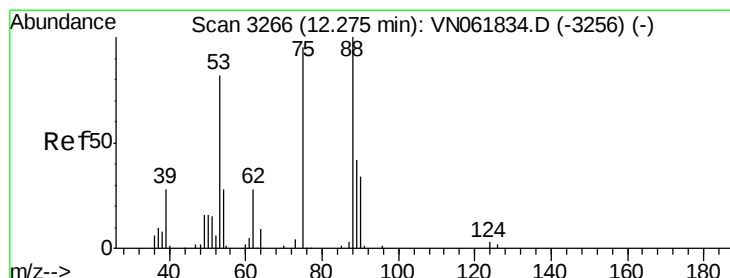
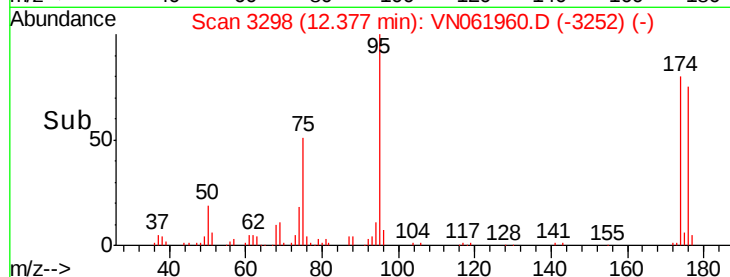
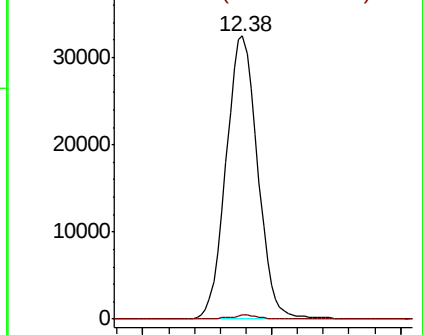
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 77.543 ug/l

RT: 12.38 min Scan# 3298

Delta R.T. 0.10 min

Lab File: VN061960.D

Acq: 19 Jun 2020 18:23

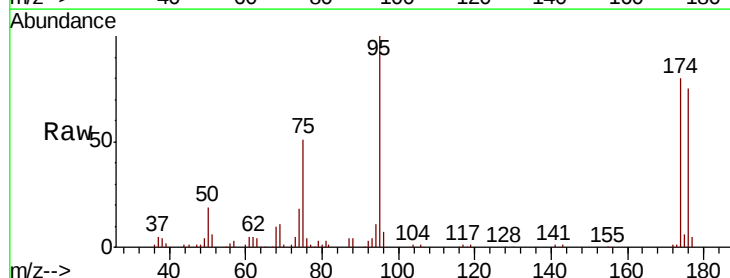
Tgt Ion: 75 Resp: 55244

Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

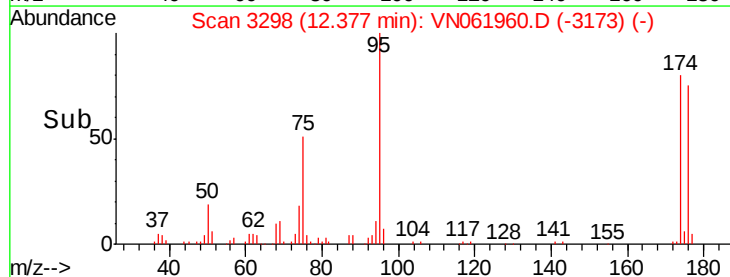
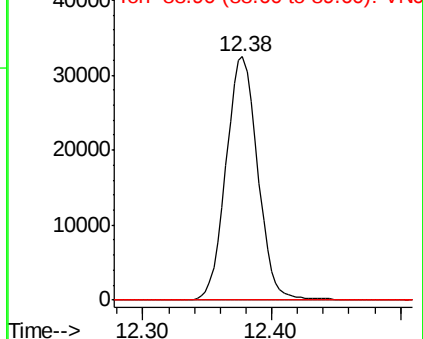
89 0.0 36.0 54.0#

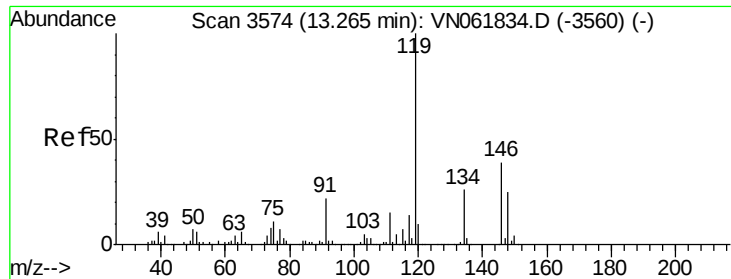


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

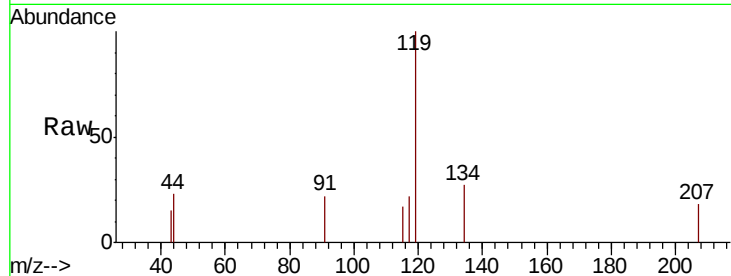




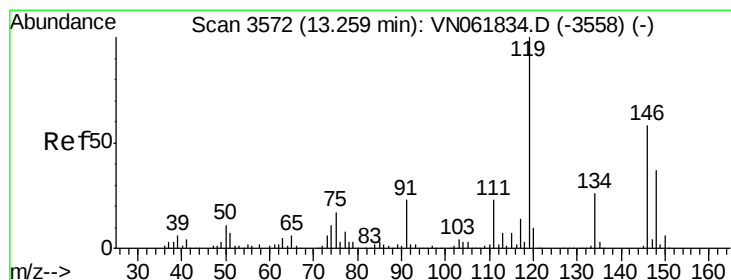
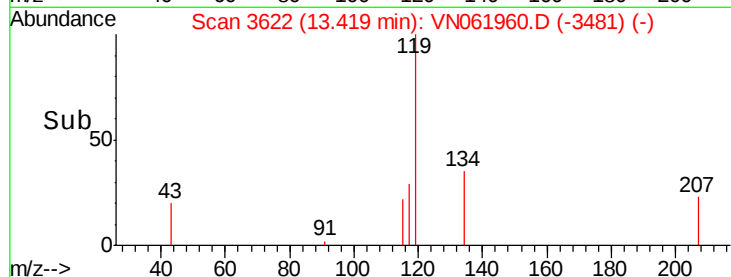
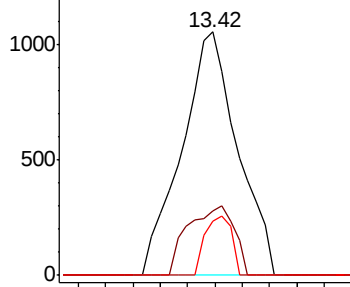
#86
 p-Isopropyltoluene
 Concen: 0.260 ug/l
 RT: 13.42 min Scan# 3622
 Delta R.T. 0.15 min
 Lab File: VN061960.D
 Acq: 19 Jun 2020 18:23

Instrument :
 MSVOA_N
 ClientSampleId :
 SS043MW010-200615

Tot Ion	Ratio	Lower	Upper
119	100		
134	23.6	13.3	39.9
91	11.4	11.2	33.6

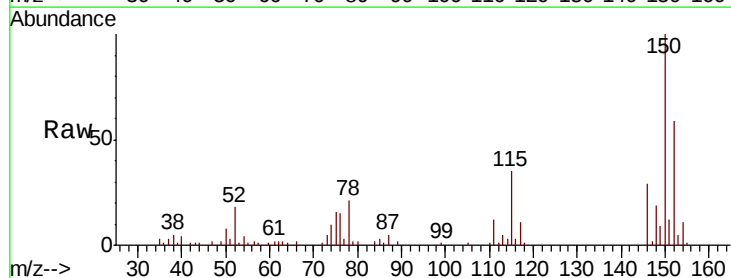


Abundance Ion 119.00 (118.70 to 119.70): V
 Ion 134.00 (133.70 to 134.70): V
 Ion 91.00 (90.70 to 91.70): V

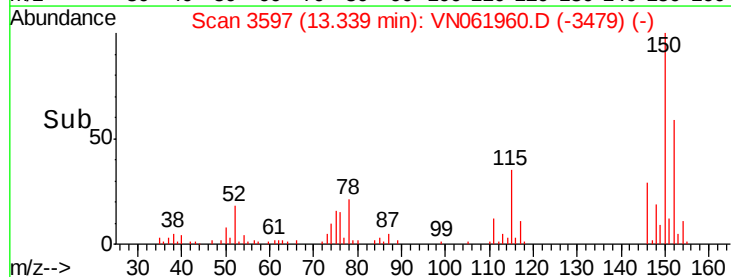
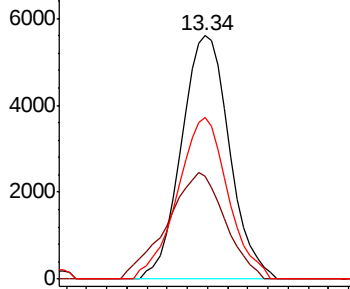


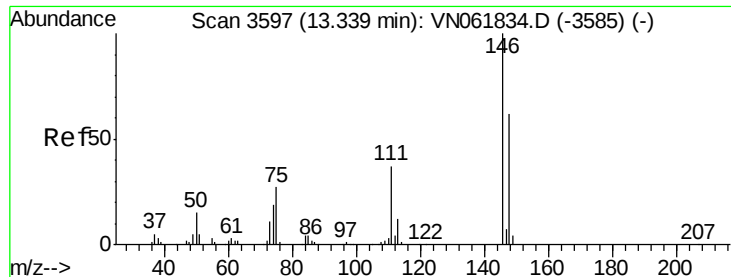
#87
 1,3-Dichlorobenzene
 Concen: 2.886 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. 0.08 min
 Lab File: VN061960.D
 Acq: 19 Jun 2020 18:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	52.3	19.6	58.8
148	69.6	31.8	95.4



Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

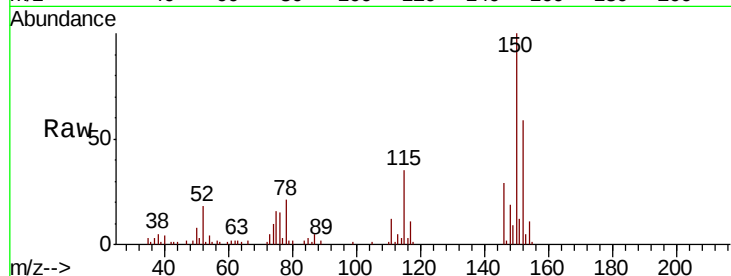




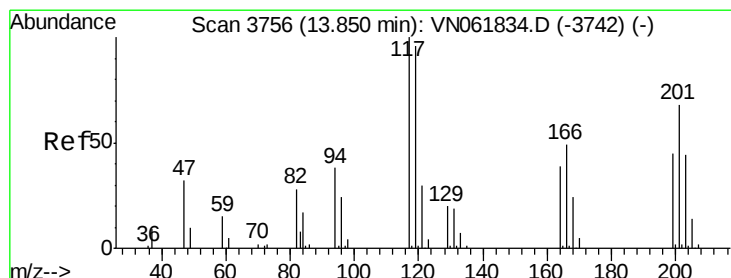
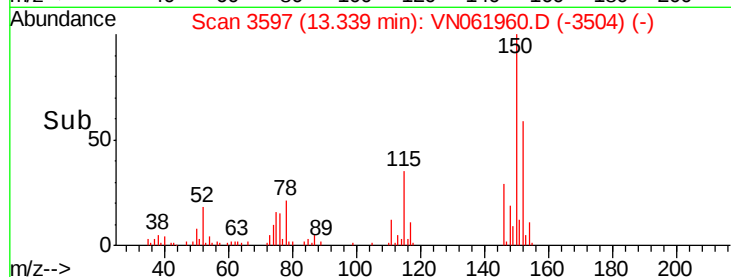
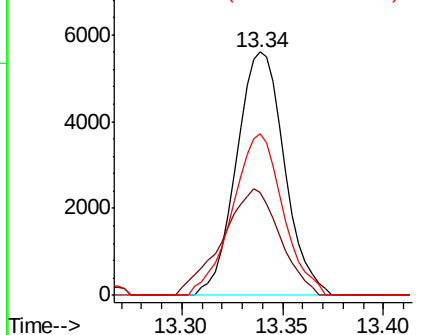
#88
 1,4-Dichlorobenzene
 Concen: 2.819 ug/l
 RT: 13.34 min Scan# 3597
 Delta R.T. -0.00 min
 Lab File: VN061960.D
 Acq: 19 Jun 2020 18:23

Instrument :
 MSVOA_N
 ClientSampleId :
 SS043MW010-200615

Tot Ion:146 Resp: 9339
 Ion Ratio Lower Upper
 146 100
 111 52.3 19.3 57.8
 148 69.6 31.6 94.7

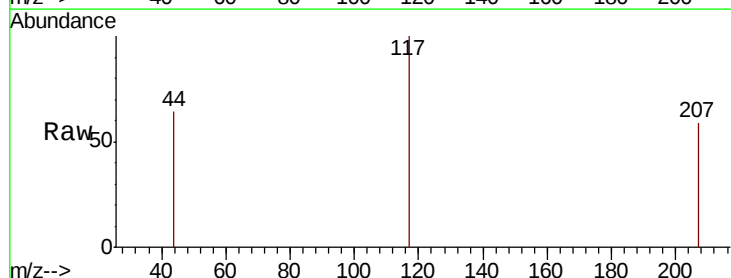


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

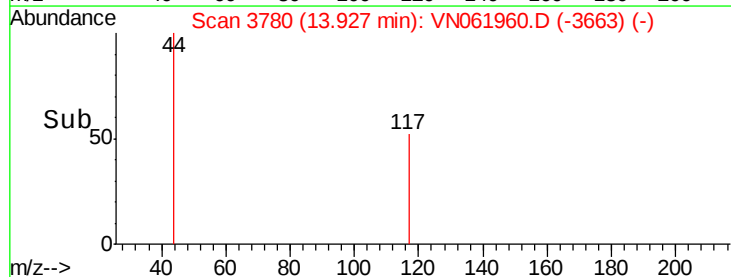
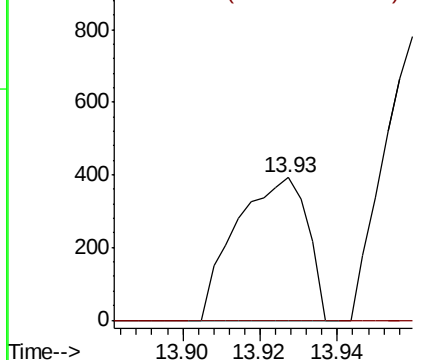


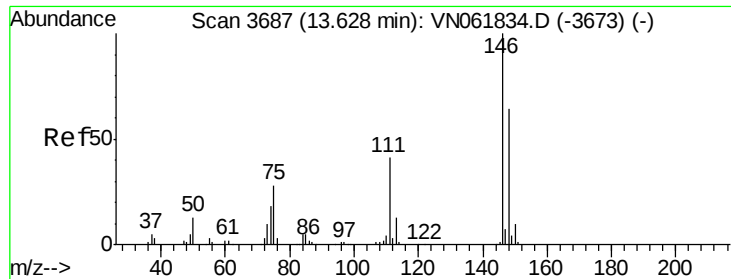
#90
 Hexachloroethane
 Concen: 0.478 ug/l
 RT: 13.93 min Scan# 3780
 Delta R.T. 0.08 min
 Lab File: VN061960.D
 Acq: 19 Jun 2020 18:23

Tgt Ion:117 Resp: 503
 Ion Ratio Lower Upper
 117 100
 201 0.0 34.6 103.8#



Abundance Ion 116.80 (116.50 to 117.50): V
 Ion 200.70 (200.40 to 201.40): V

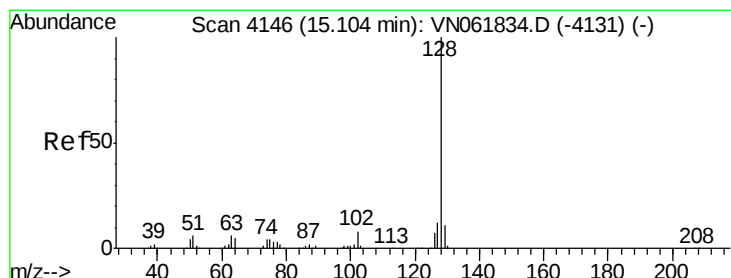
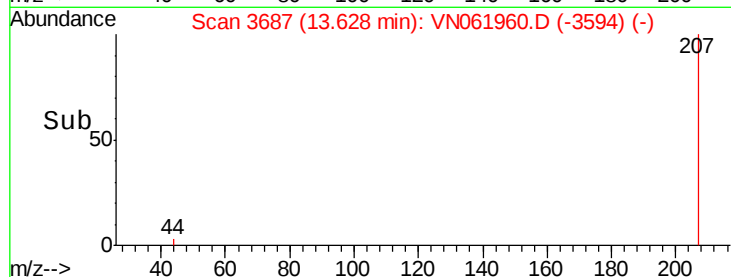
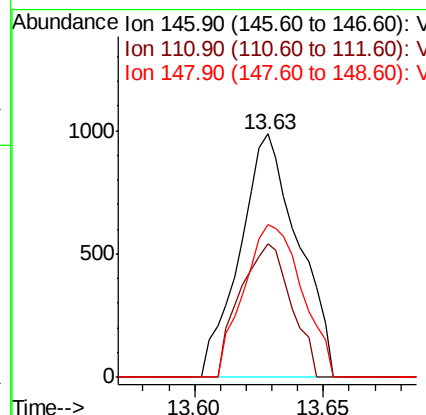
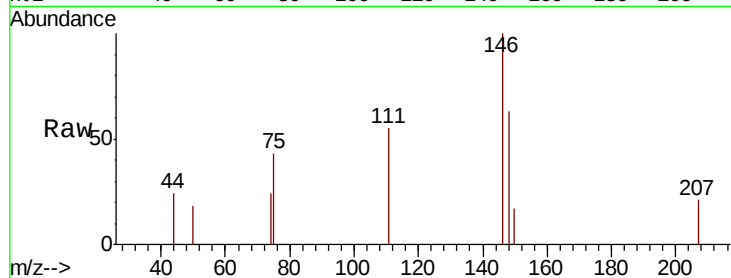




#91
 1,2-Dichlorobenzene
 Concen: 0.501 ug/l
 RT: 13.63 min Scan# 3687
 Delta R.T. -0.00 min
 Lab File: VN061960.D
 Acq: 19 Jun 2020 18:23

Instrument :
 MSVOA_N
 ClientSampleId :
 SS043MW010-200615

Tot Ion:146 Resp: 1561
 Ion Ratio Lower Upper
 146 100
 111 48.0 20.4 61.2
 148 62.4 31.8 95.4



#95
 Naphthalene
 Concen: 3.528 ug/l
 RT: 15.11 min Scan# 4147
 Delta R.T. 0.00 min
 Lab File: VN061960.D
 Acq: 19 Jun 2020 18:23

Tgt Ion:128 Resp: 239
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.3 15.5#
 129 0.0 8.6 13.0#

