

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091419\
 Data File : VN058015.D
 Acq On : 13 Sep 2019 13:52
 Operator : JC/SP
 Sample : K4866-01
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 N48987

Quant Time: Sep 14 02:19:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

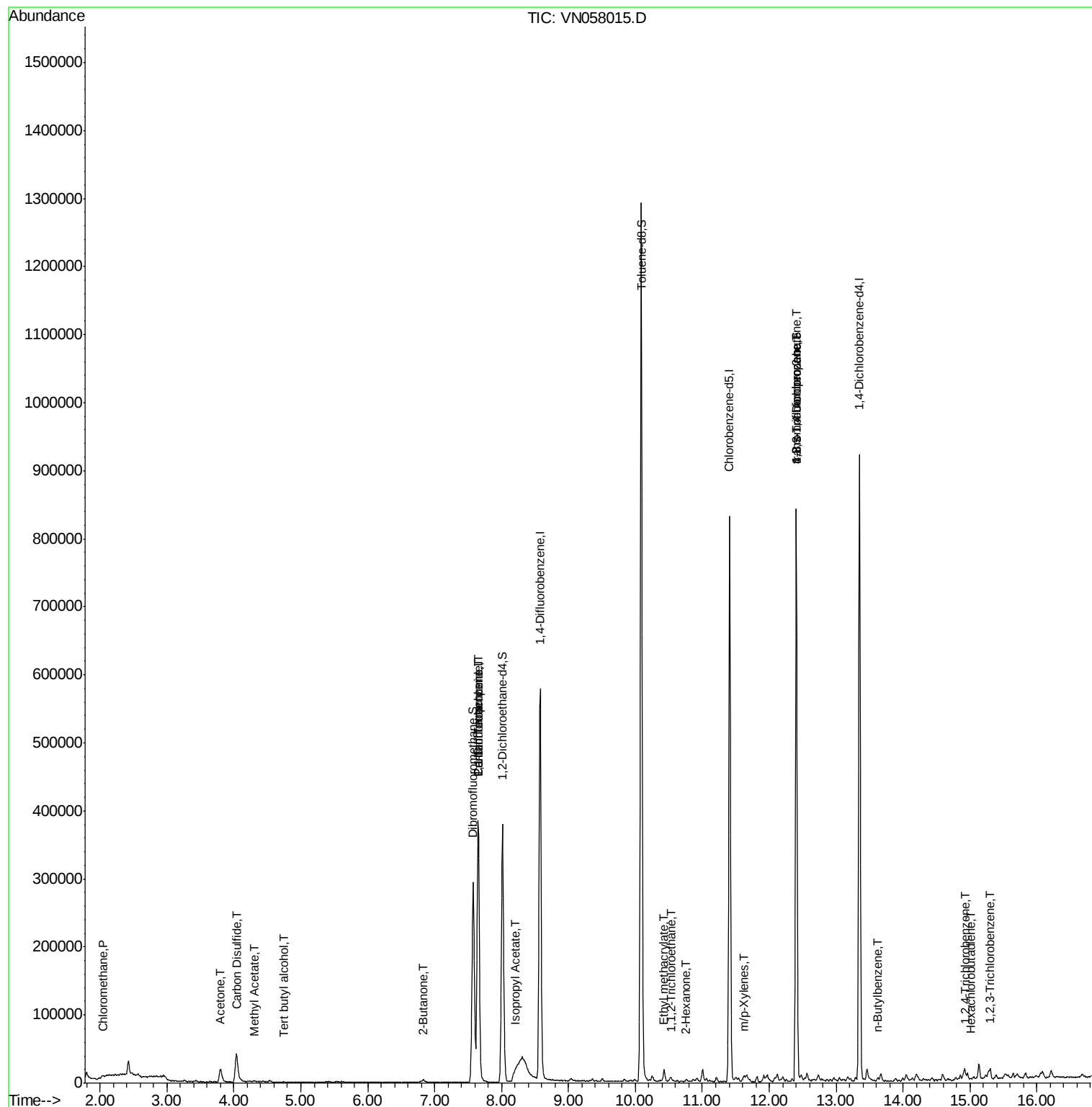
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	302320	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	496379	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	450101	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	229875	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	324434	52.98	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.96%	
35) Dibromofluoromethane	7.58	113	221421	48.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.66%	
50) Toluene-d8	10.09	98	880362	49.49	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.98%	
62) 4-Bromofluorobenzene	12.40	95	283898	41.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	83.76%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.04	50	1390	0.326	ug/l	89
5) Bromomethane	2.56	94	703	Below Cal		99
11) Tert butyl alcohol	4.74	59	283	0.382	ug/l #	72
16) Acetone	3.80	43	34361	17.118	ug/l	99
17) Carbon Disulfide	4.03	76	2901	0.736	ug/l #	75
18) Methyl Acetate	4.31	43	1729	0.323	ug/l	99
20) Methylene Chloride	4.52	84	692	Below Cal	#	70
25) 2-Butanone	6.83	43	4864	1.674	ug/l #	82
31) Cyclohexane	7.64	56	7672	Below Cal	#	24
36) 1,1-Dichloropropene	7.65	75	26088	4.532	ug/l #	51
38) Carbon Tetrachloride	7.65	117	30700	5.841	ug/l #	15
43) Isopropyl Acetate	8.20	43	15632	1.563	ug/l #	56
55) 1,1,2-Trichloroethane	10.53	97	2484	0.537	ug/l #	14
56) Ethyl methacrylate	10.43	69	1906	0.274	ug/l #	1
59) 2-Hexanone	10.76	43	2247	0.506	ug/l	96
68) m/p-Xylenes	11.63	106	2539	0.336	ug/l	96
76) 1,2,3-Trichloropropane	12.40	75	155951	29.990	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	155951	105.534	ug/l #	6
89) n-Butylbenzene	13.62	91	3351	0.227	ug/l	92
93) 1,2,4-Trichlorobenzene	14.92	180	3084	0.579	ug/l #	43
94) Hexachlorobutadiene	15.02	225	544	0.241	ug/l	75
95) Naphthalene	15.13	128	18601	Below Cal		96
96) 1,2,3-Trichlorobenzene	15.31	180	4055	1.852	ug/l #	81

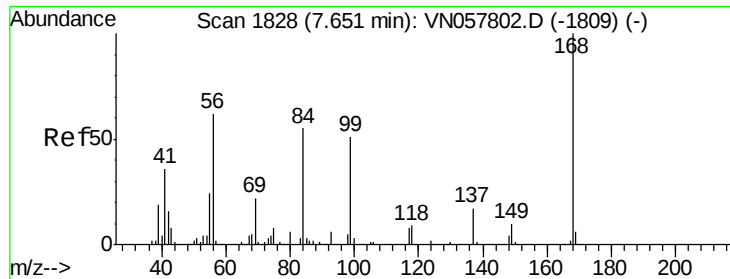
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN091419\
Data File : VN058015.D
Acq On : 13 Sep 2019 13:52
Operator : JC/SP
Sample : K4866-01
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
N48987

Quant Time: Sep 14 02:19:29 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 10 03:02:13 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN058015.D

Acq: 13 Sep 2019 13:52

Instrument :

MSVOA_N

ClientSampleId :

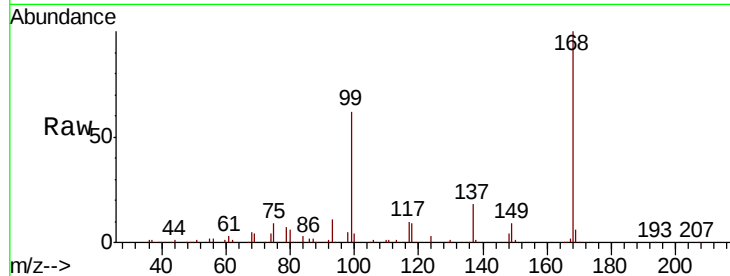
N48987

Tgt Ion:168 Resp: 302320

Ion Ratio Lower Upper

168 100

99 61.8 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

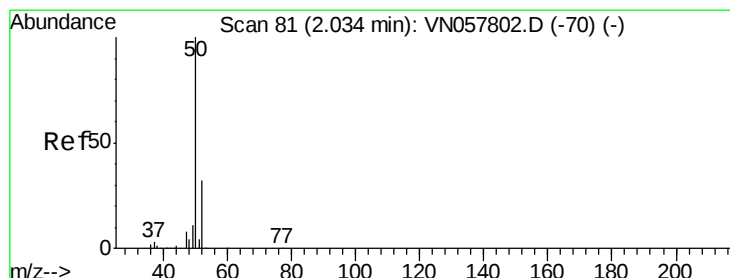
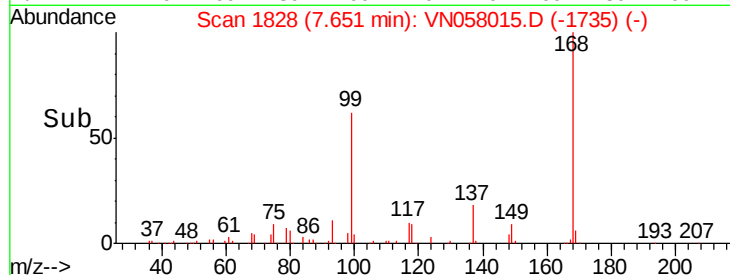
7.65

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.326 ug/l

RT: 2.04 min Scan# 83

Delta R.T. 0.01 min

Lab File: VN058015.D

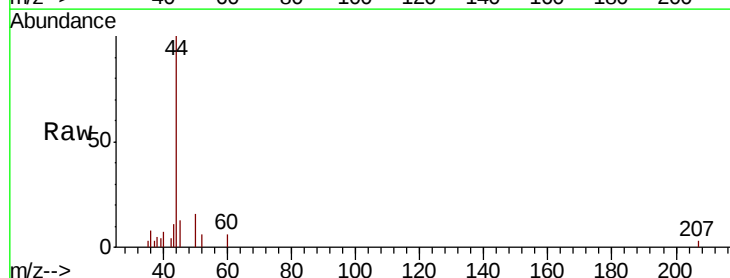
Acq: 13 Sep 2019 13:52

Tgt Ion: 50 Resp: 1390

Ion Ratio Lower Upper

50 100

52 38.2 25.5 38.3



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.04

1000

800

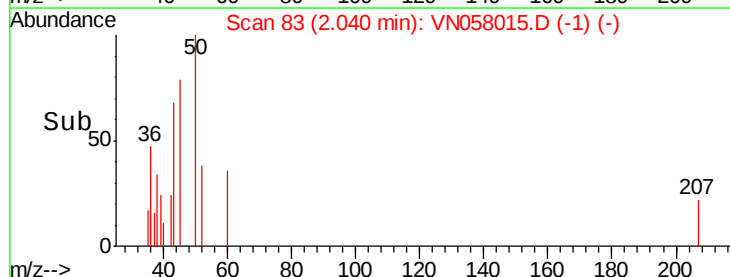
600

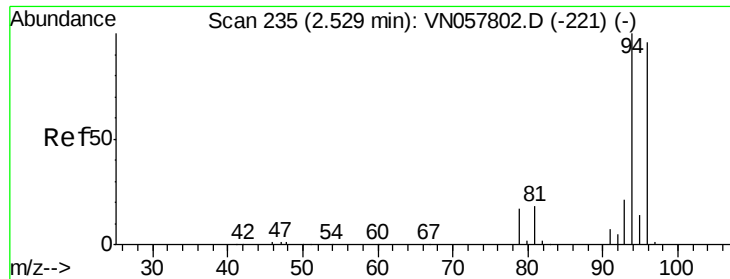
400

200

0

Time-->

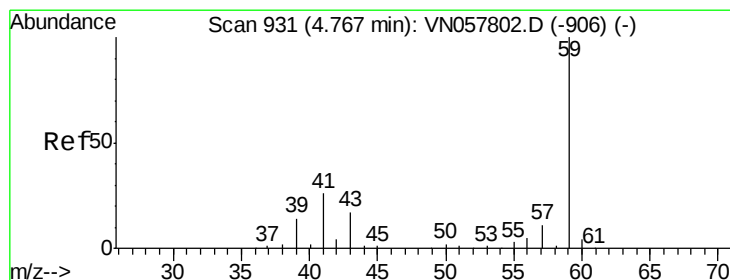
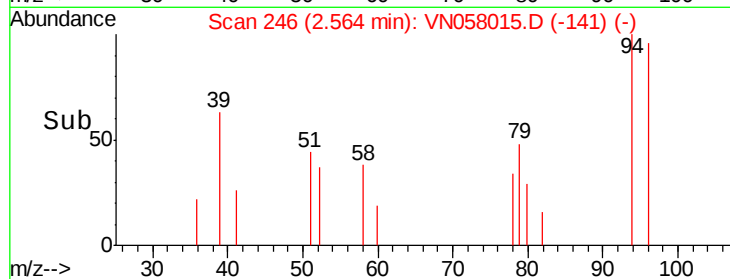
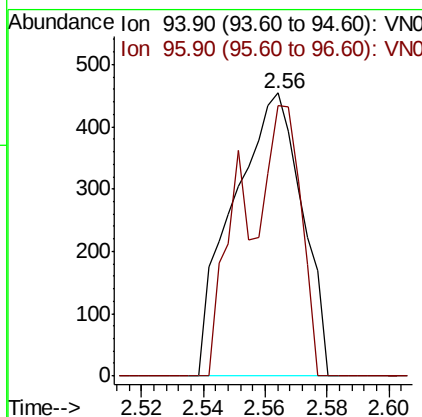
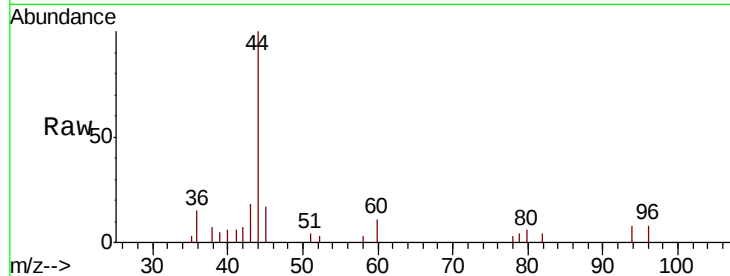




#5
Bromomethane
Concen: Below Cal
RT: 2.56 min Scan# 246
Delta R.T. 0.04 min
Lab File: VN058015.D
Acq: 13 Sep 2019 13:52

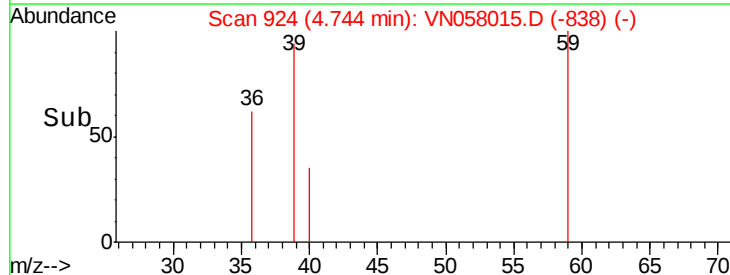
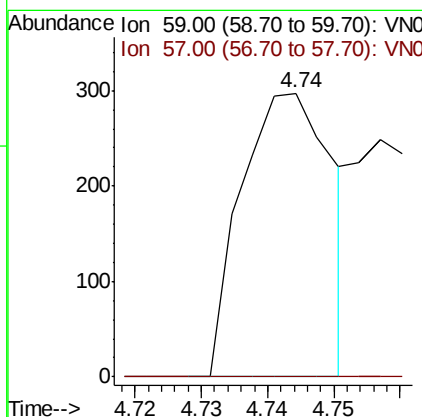
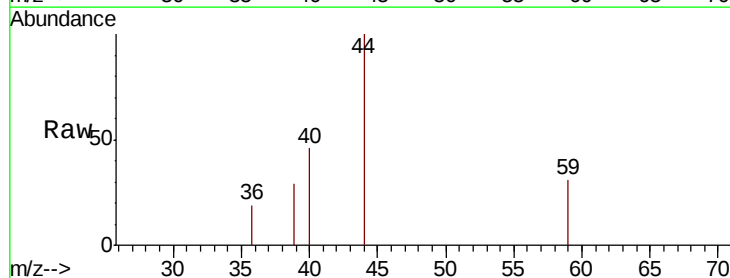
Instrument :
MSVOA_N
ClientSampled :
N48987

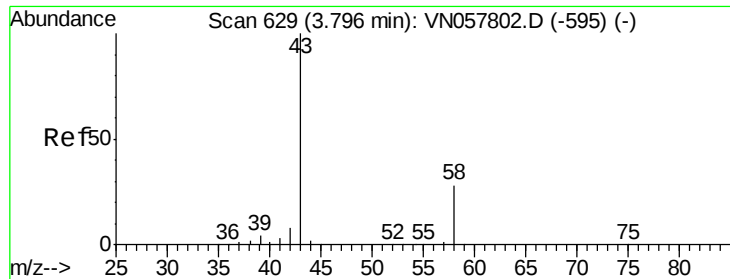
Tgt Ion: 94 Resp: 703
Ion Ratio Lower Upper
94 100
96 95.6 77.0 115.4



#11
Tert butyl alcohol
Concen: 0.382 ug/l
RT: 4.74 min Scan# 924
Delta R.T. -0.02 min
Lab File: VN058015.D
Acq: 13 Sep 2019 13:52

Tgt Ion: 59 Resp: 283
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#





#16

Acetone

Concen: 17.118 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.00 min

Lab File: VN058015.D

Acq: 13 Sep 2019 13:52

Instrument :

MSVOA_N

ClientSampleId :

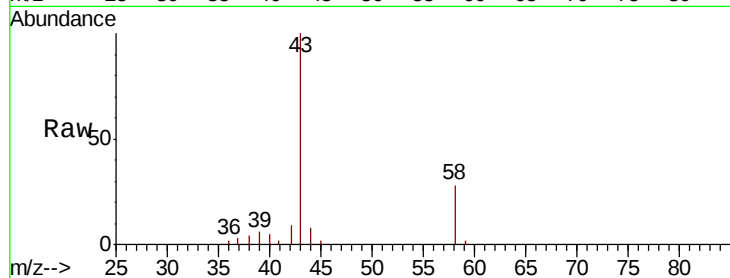
N48987

Tgt Ion: 43 Resp: 34361

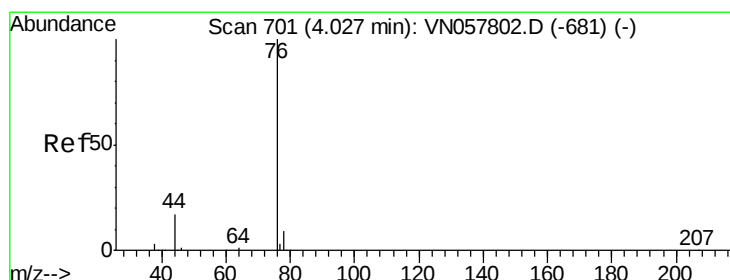
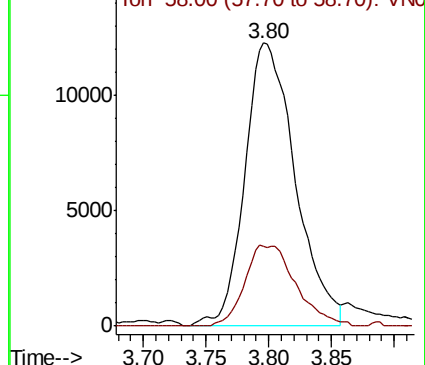
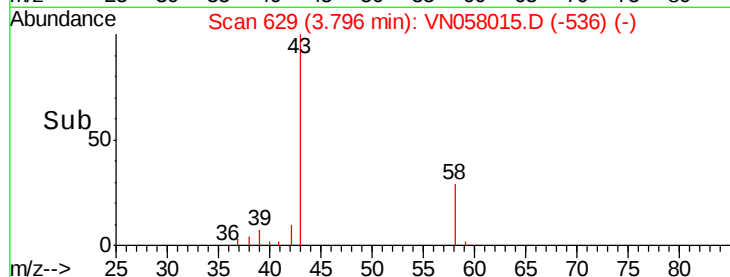
Ion Ratio Lower Upper

43 100

58 28.4 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VN058015.D (-536) (-)



#17

Carbon Disulfide

Concen: 0.736 ug/l

RT: 4.03 min Scan# 703

Delta R.T. 0.01 min

Lab File: VN058015.D

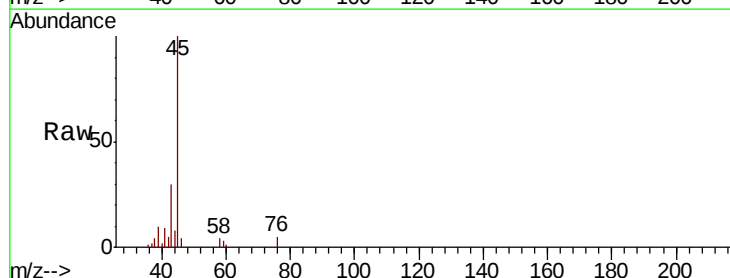
Acq: 13 Sep 2019 13:52

Tgt Ion: 76 Resp: 2901

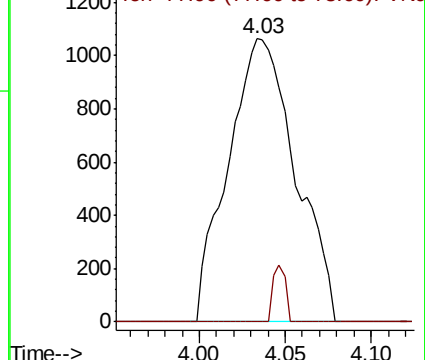
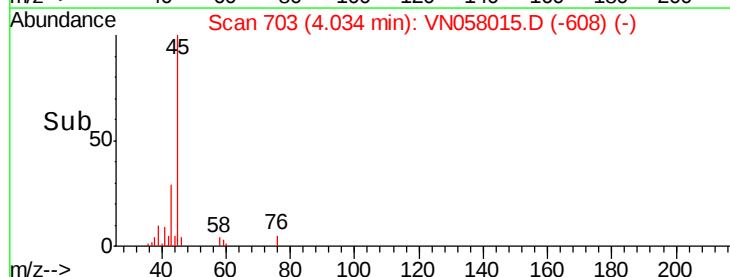
Ion Ratio Lower Upper

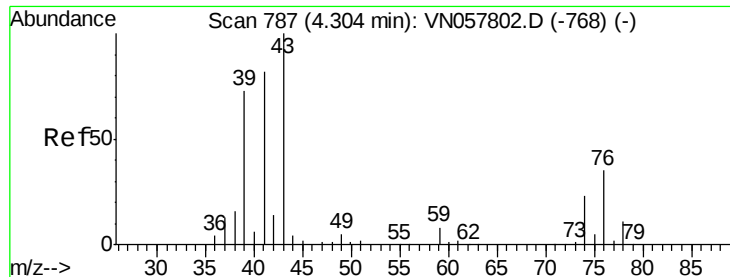
76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN058015.D (-608) (-)

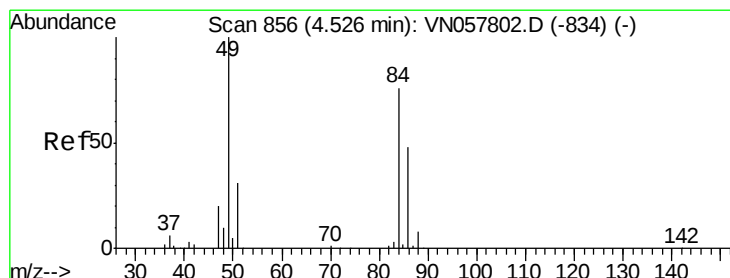
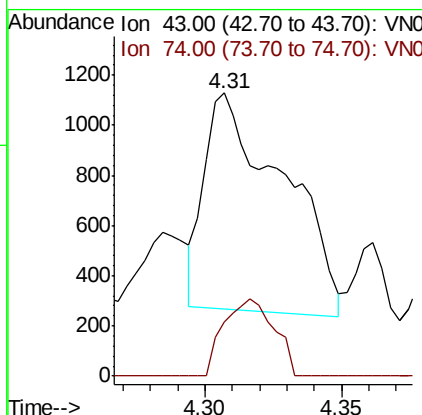
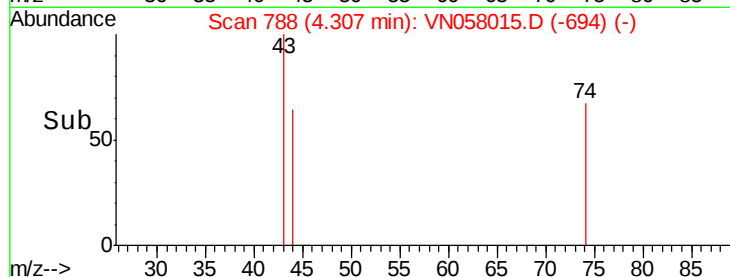
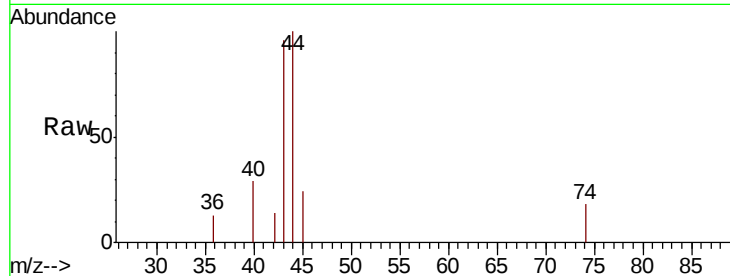




#18
Methyl Acetate
Concen: 0.323 ug/l
RT: 4.31 min Scan# 788
Delta R.T. 0.00 min
Lab File: VN058015.D
Acq: 13 Sep 2019 13:52

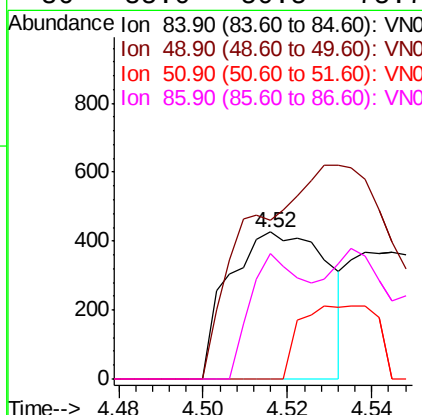
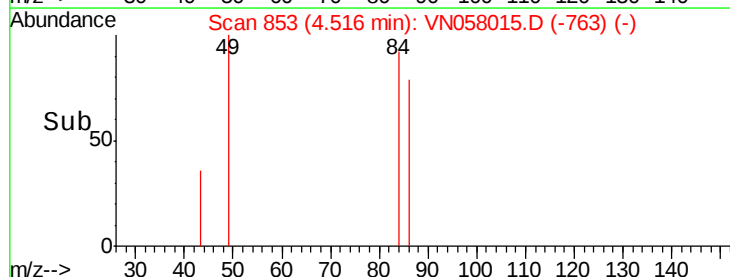
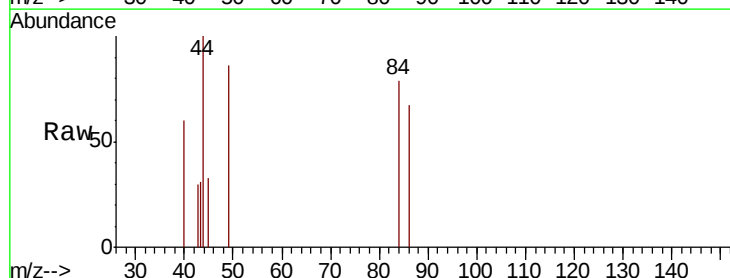
Instrument :
MSVOA_N
ClientSampled :
N48987

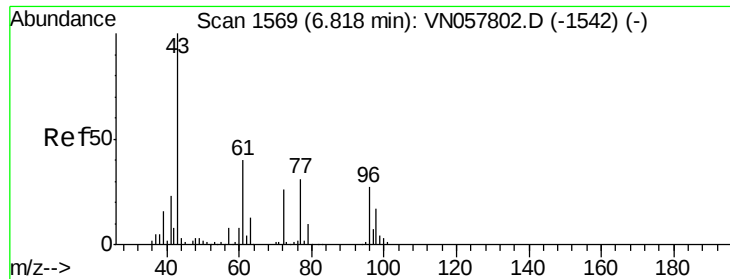
Tgt Ion: 43 Resp: 1729
Ion Ratio Lower Upper
43 100
74 22.7 17.9 26.9



#20
Methylene Chloride
Concen: Below Cal
RT: 4.52 min Scan# 853
Delta R.T. -0.01 min
Lab File: VN058015.D
Acq: 13 Sep 2019 13:52

Tgt Ion: 84 Resp: 692
Ion Ratio Lower Upper
84 100
49 108.2 104.8 157.2
51 0.0 33.0 49.4#
86 85.0 50.5 75.7#

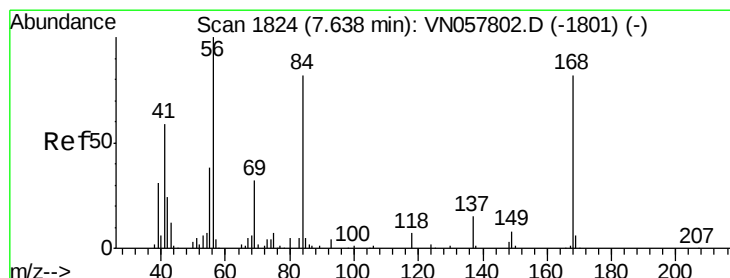
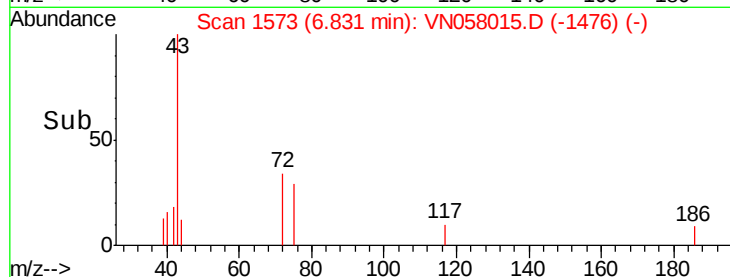
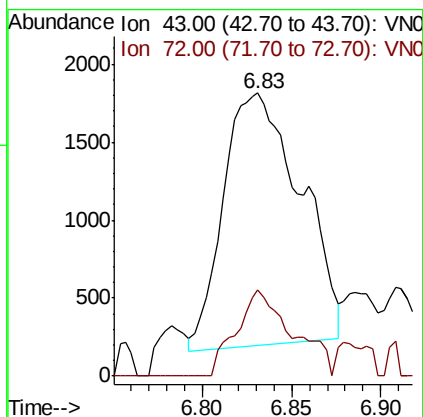
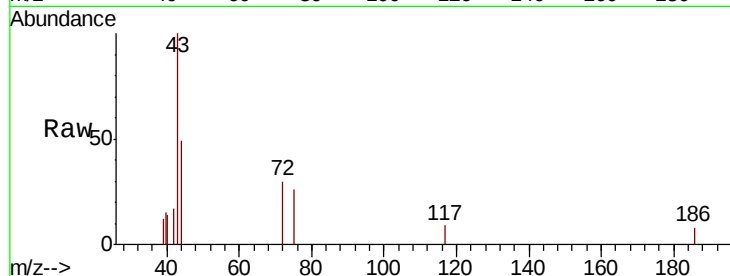




#25
2-Butanone
Concen: 1.674 ug/l
RT: 6.83 min Scan# 1573
Delta R.T. 0.01 min
Lab File: VN058015.D
Acq: 13 Sep 2019 13:52

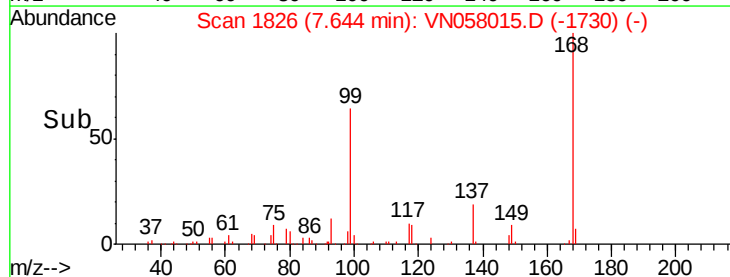
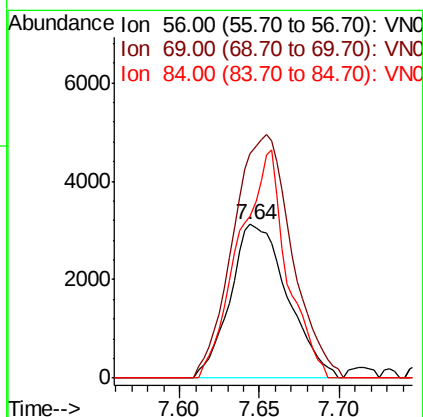
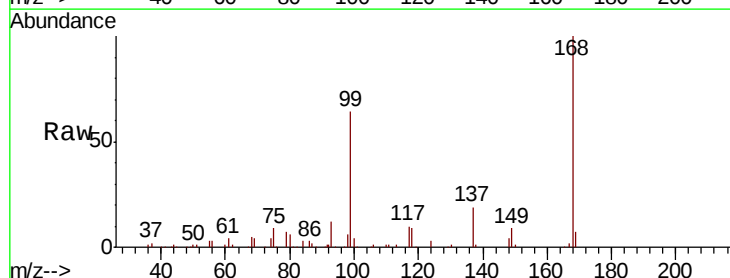
Instrument :
MSVOA_N
ClientSampleId :
N48987

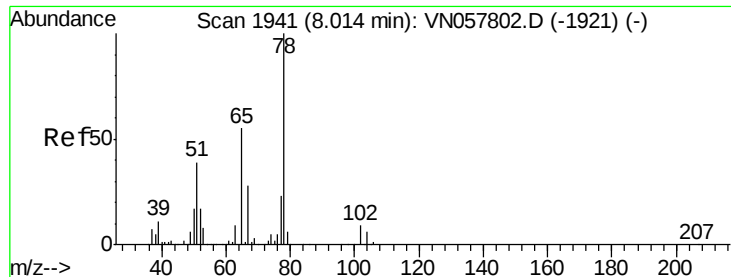
Tgt Ion: 43 Resp: 4864
Ion Ratio Lower Upper
43 100
72 35.0 20.6 30.8#



#31
Cyclohexane
Concen: Below Cal
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN058015.D
Acq: 13 Sep 2019 13:52

Tgt Ion: 56 Resp: 7672
Ion Ratio Lower Upper
56 100
69 146.3 25.9 38.9#
84 105.0 65.6 98.4#

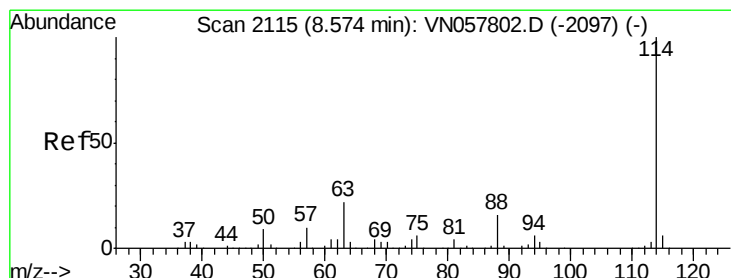
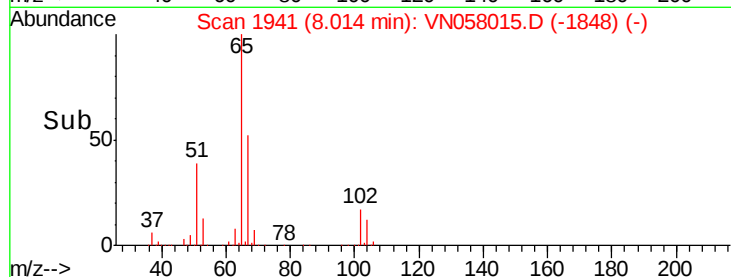
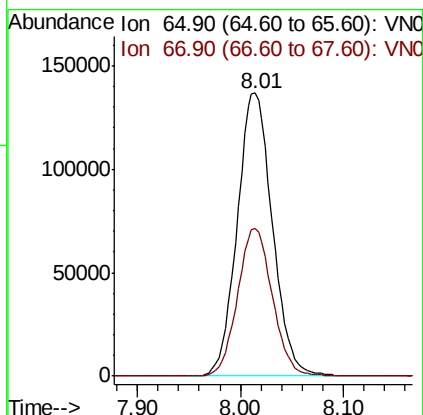
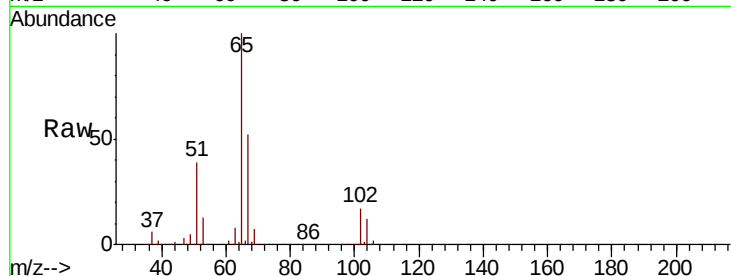




#33
 1,2-Dichloroethane-d4
 Concen: 52.984 ug/l
 RT: 8.01 min Scan# 1941
 Delta R.T. 0.00 min
 Lab File: VN058015.D
 Acq: 13 Sep 2019 13:52

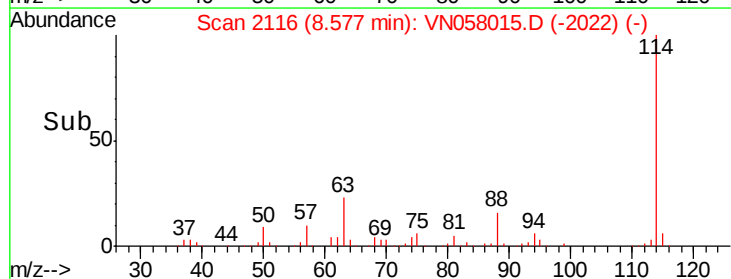
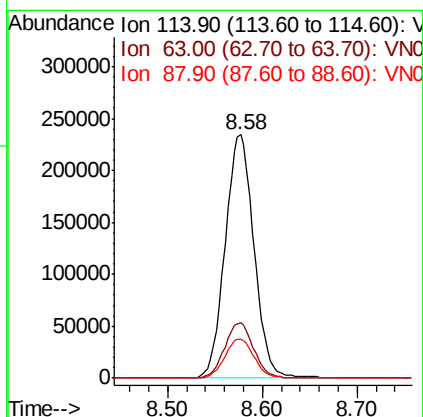
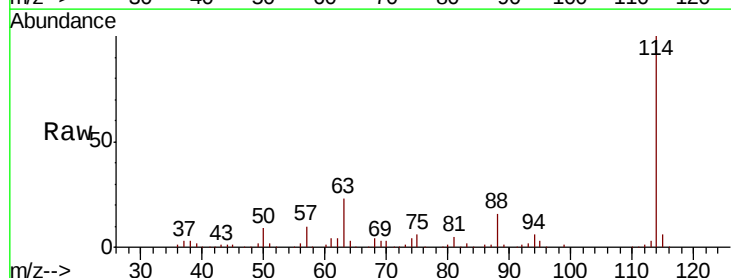
Instrument :
 MSVOA_N
 ClientSampleId :
 N48987

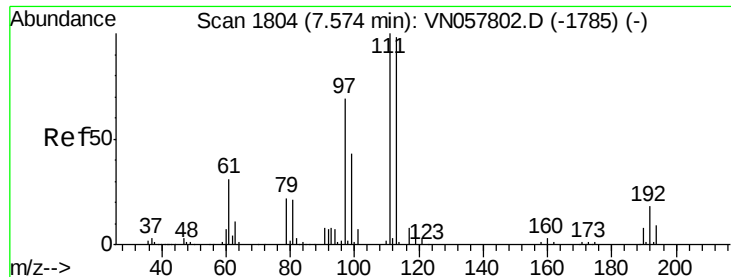
Tgt Ion: 65 Resp: 324434
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 104.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN058015.D
 Acq: 13 Sep 2019 13:52

Tgt Ion: 114 Resp: 496379
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 44.0
 88 16.0 0.0 31.4

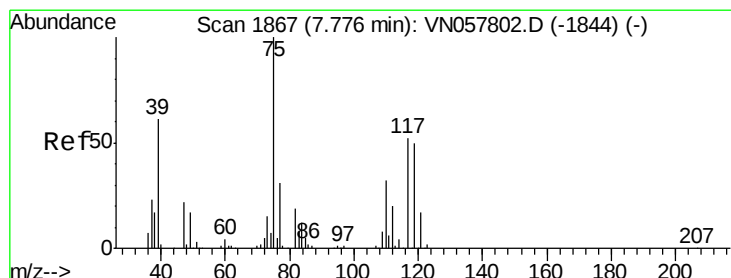
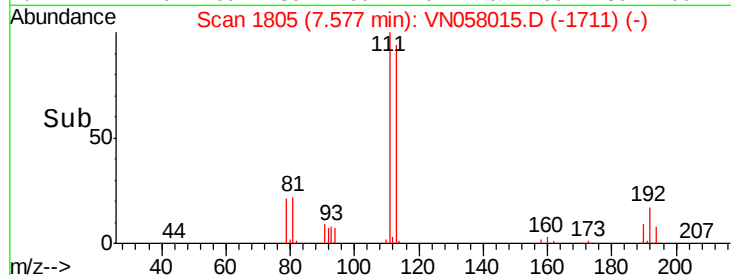
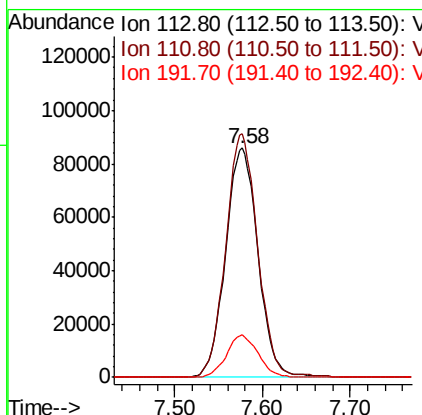
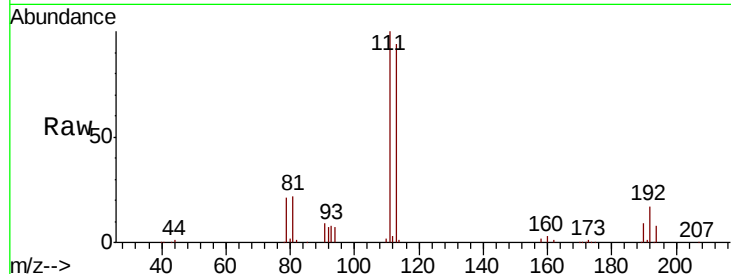




#35
 Dibromofluoromethane
 Concen: 48.331 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN058015.D
 Acq: 13 Sep 2019 13:52

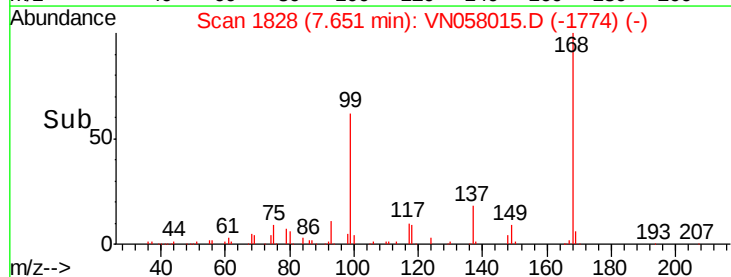
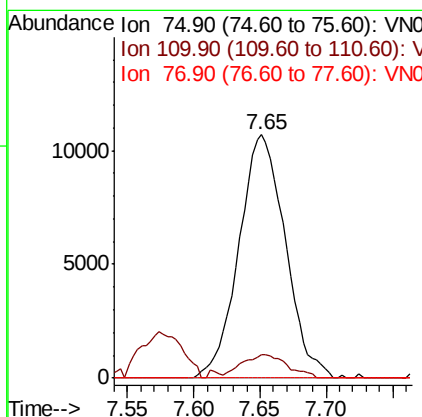
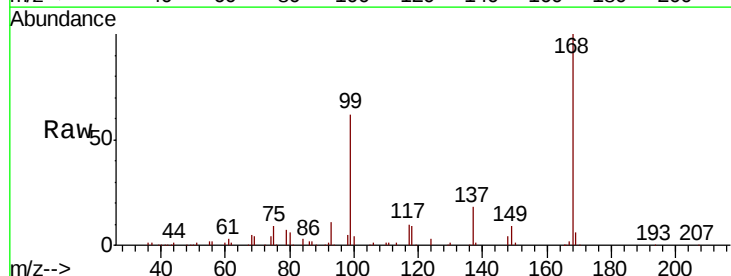
Instrument :
 MSVOA_N
 ClientSampleId :
 N48987

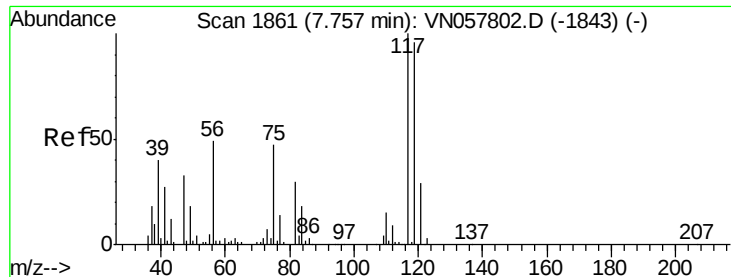
Tgt Ion: 113 Resp: 221421
 Ion Ratio Lower Upper
 113 100
 111 103.5 81.3 121.9
 192 17.9 14.6 22.0



#36
 1,1-Dichloropropene
 Concen: 4.532 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058015.D
 Acq: 13 Sep 2019 13:52

Tgt Ion: 75 Resp: 26088
 Ion Ratio Lower Upper
 75 100
 110 9.5 16.3 48.9#
 77 0.0 25.0 37.4#





#38

Carbon Tetrachloride

Concen: 5.841 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058015.D

Acq: 13 Sep 2019 13:52

Instrument :

MSVOA_N

ClientSampleId :

N48987

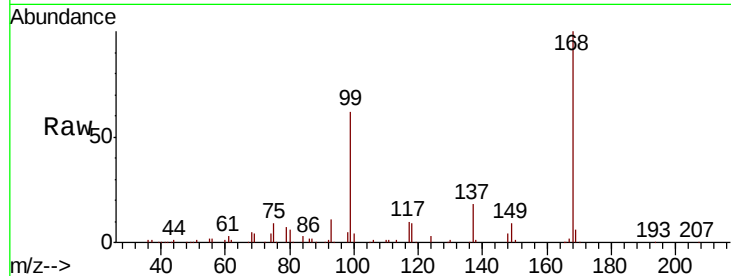
Tgt Ion:117 Resp: 30700

Ion Ratio Lower Upper

117 100

119 4.6 76.9 115.3#

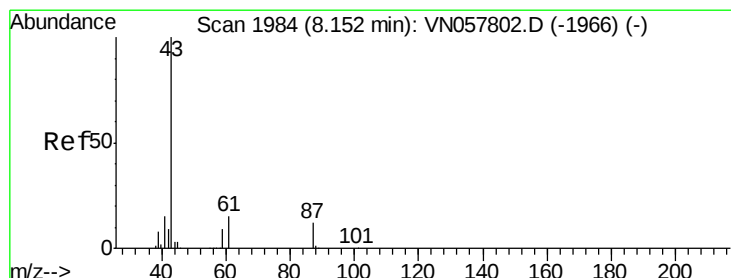
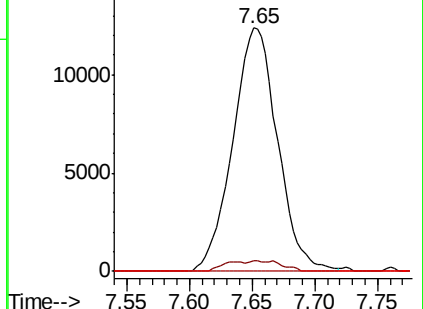
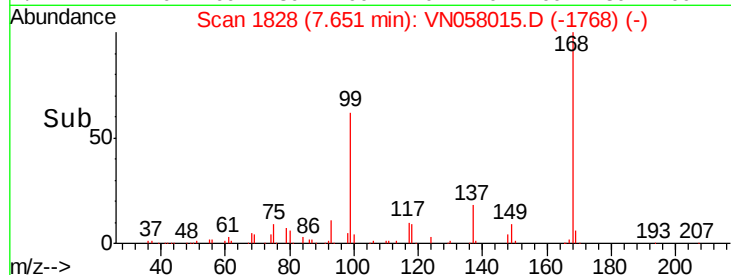
121 0.0 23.4 35.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 1.563 ug/l

RT: 8.20 min Scan# 1998

Delta R.T. 0.05 min

Lab File: VN058015.D

Acq: 13 Sep 2019 13:52

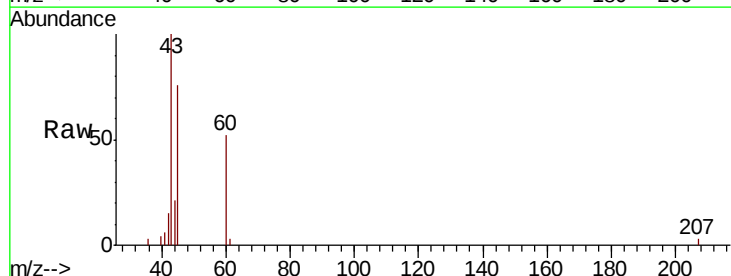
Tgt Ion: 43 Resp: 15632

Ion Ratio Lower Upper

43 100

61 0.0 20.1 30.1#

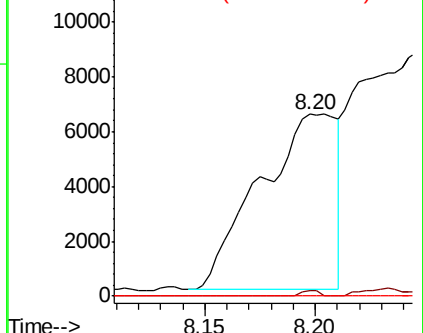
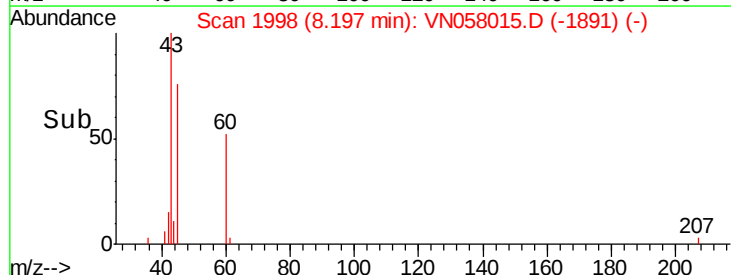
87 0.0 9.5 14.3#

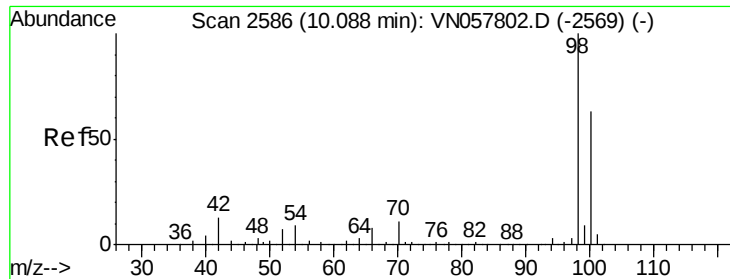


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0





#50

Toluene-d8

Concen: 49.494 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN058015.D

Acq: 13 Sep 2019 13:52

Instrument :

MSVOA_N

ClientSampleId :

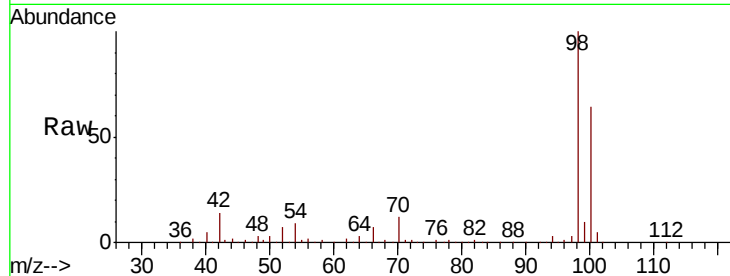
N48987

Tgt Ion: 98 Resp: 880362

Ion Ratio Lower Upper

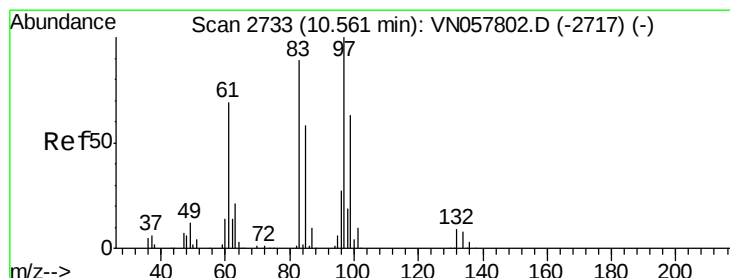
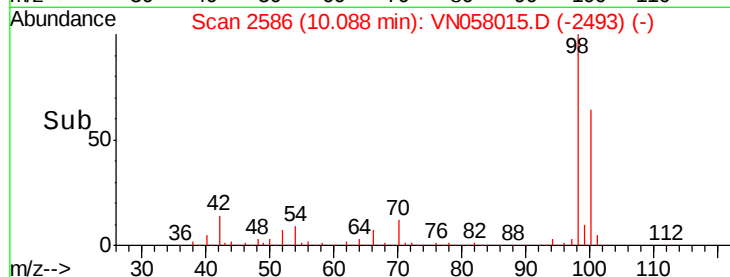
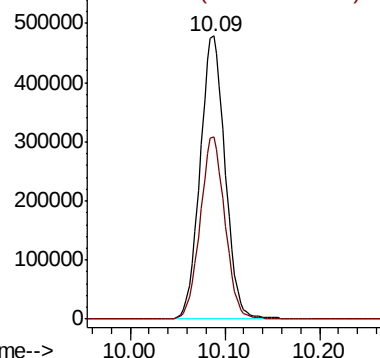
98 100

100 63.8 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#55

1,1,2-Trichloroethane

Concen: 0.537 ug/l

RT: 10.53 min Scan# 2723

Delta R.T. -0.03 min

Lab File: VN058015.D

Acq: 13 Sep 2019 13:52

Tgt Ion: 97 Resp: 2484

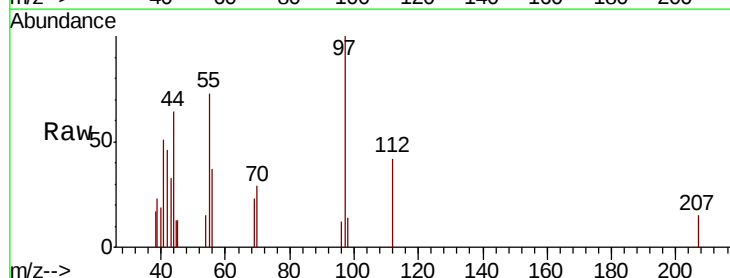
Ion Ratio Lower Upper

97 100

83 0.0 70.8 106.2#

85 0.0 46.0 69.0#

99 0.0 50.6 76.0#

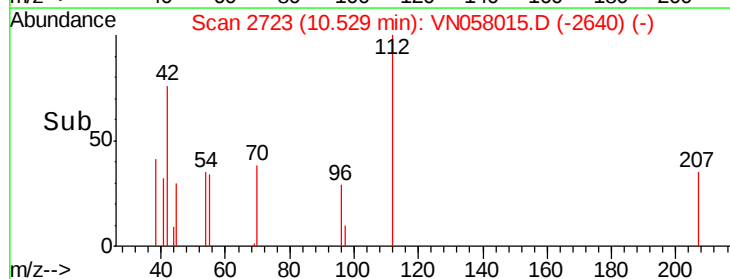
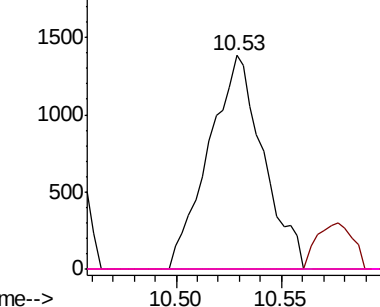


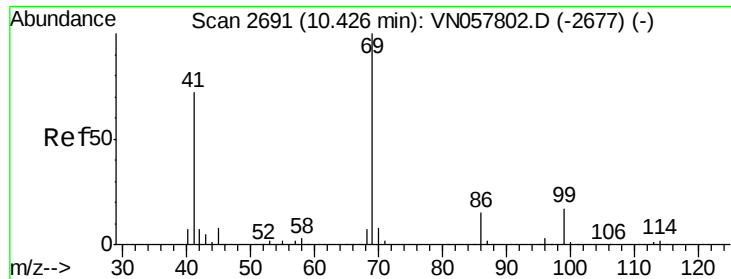
Abundance Ion 96.90 (96.60 to 97.60): VN0

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0

Ion 98.90 (98.60 to 99.60): VN0





#56

Ethyl methacrylate

Concen: 0.274 ug/l

RT: 10.43 min Scan# 2692

Delta R.T. 0.00 min

Lab File: VN058015.D

Acq: 13 Sep 2019 13:52

Instrument :

MSVOA_N

ClientSampled :

N48987

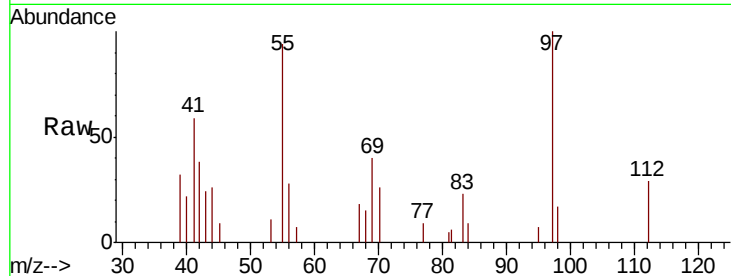
Tgt Ion: 69 Resp: 1906

Ion Ratio Lower Upper

69 100

41 202.6 56.7 85.1#

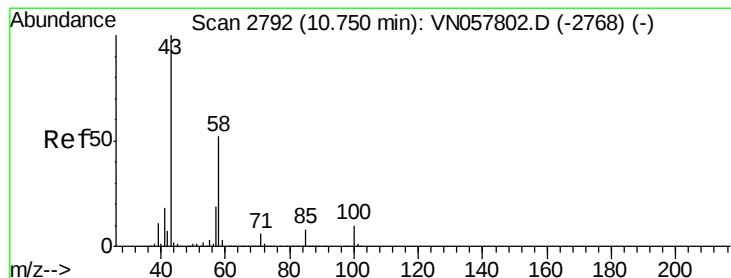
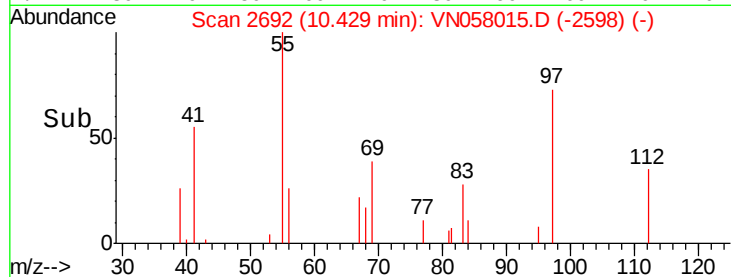
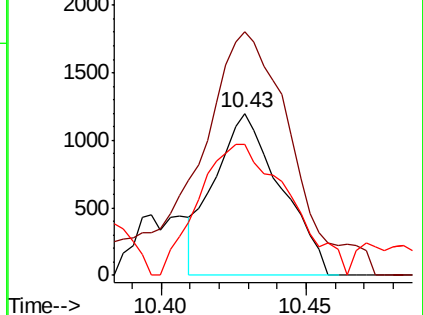
39 110.3 36.3 54.5#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 0.506 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.01 min

Lab File: VN058015.D

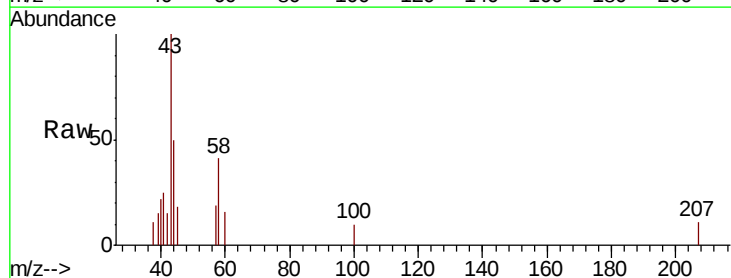
Acq: 13 Sep 2019 13:52

Tgt Ion: 43 Resp: 2247

Ion Ratio Lower Upper

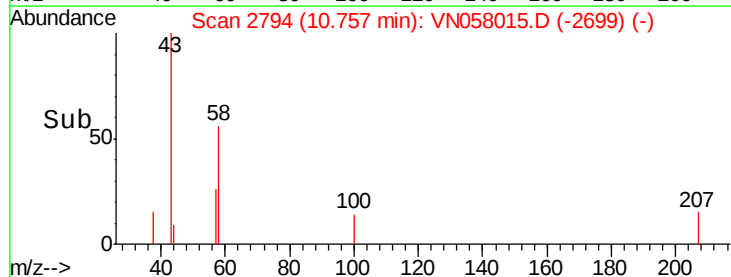
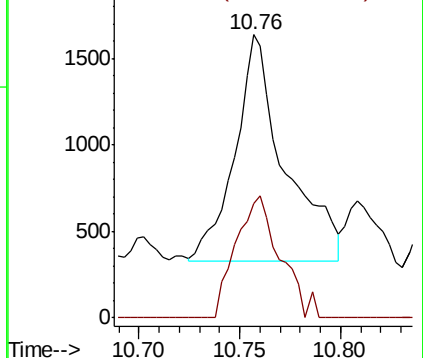
43 100

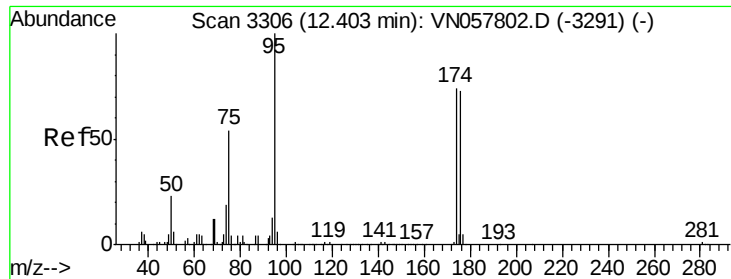
58 48.4 25.6 76.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 41.882 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN058015.D

Acq: 13 Sep 2019 13:52

Instrument :

MSVOA_N

ClientSampled :

N48987

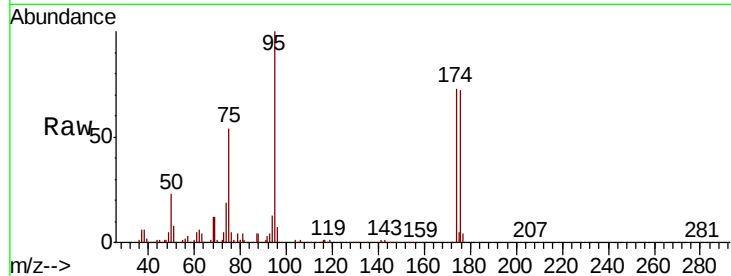
Tgt Ion: 95 Resp: 283898

Ion Ratio Lower Upper

95 100

174 75.0 0.0 150.2

176 73.2 0.0 146.0

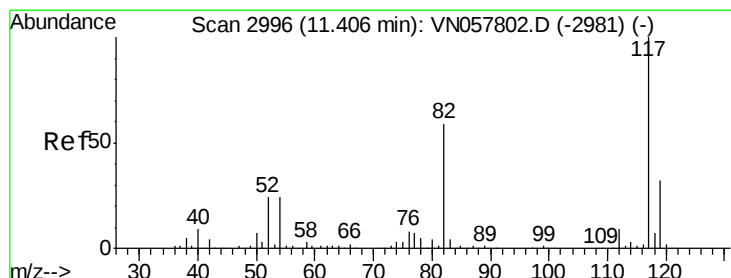
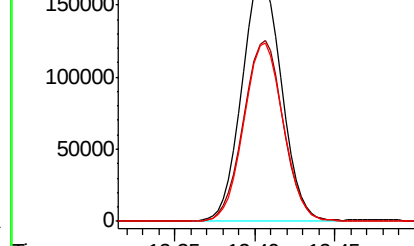
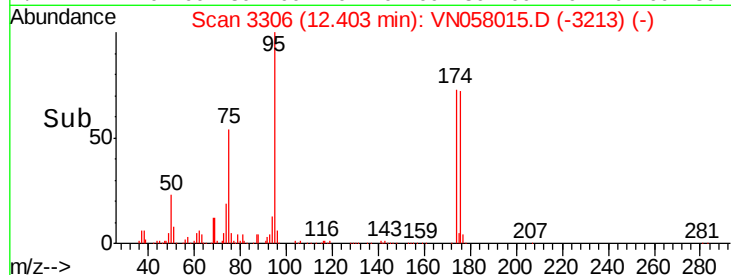


Abundance Ion 94.90 (94.60 to 95.60): VN058015.D (-2903) (-)

Ion 173.80 (173.50 to 174.50): VN058015.D (-2903) (-)

Ion 175.80 (175.50 to 176.50): VN058015.D (-2903) (-)

12.40



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN058015.D

Acq: 13 Sep 2019 13:52

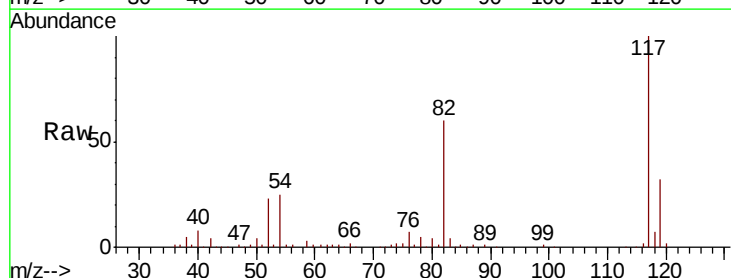
Tgt Ion: 117 Resp: 450101

Ion Ratio Lower Upper

117 100

82 60.3 47.2 70.8

119 31.6 25.3 37.9

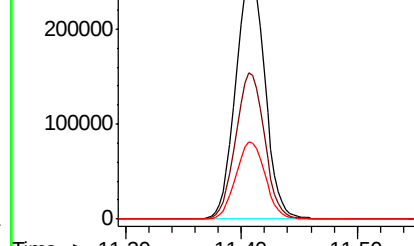
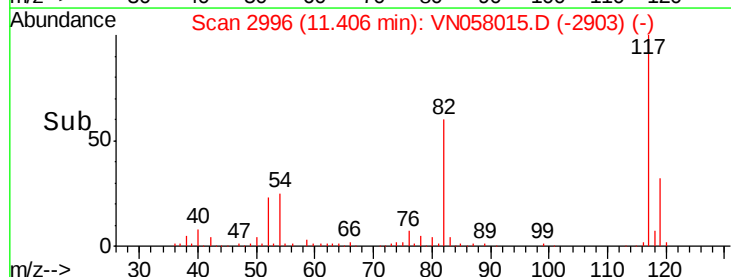


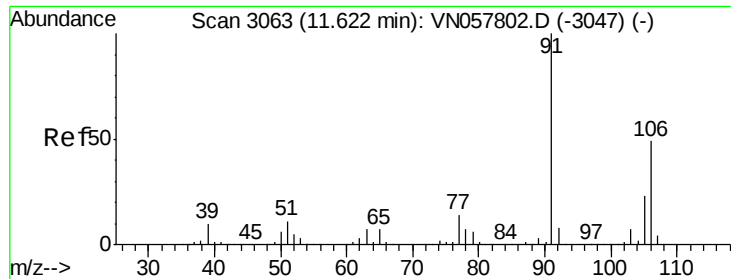
Abundance Ion 116.90 (116.60 to 117.60): VN058015.D (-2903) (-)

Ion 82.00 (81.70 to 82.70): VN058015.D (-2903) (-)

Ion 118.90 (118.60 to 119.60): VN058015.D (-2903) (-)

11.41

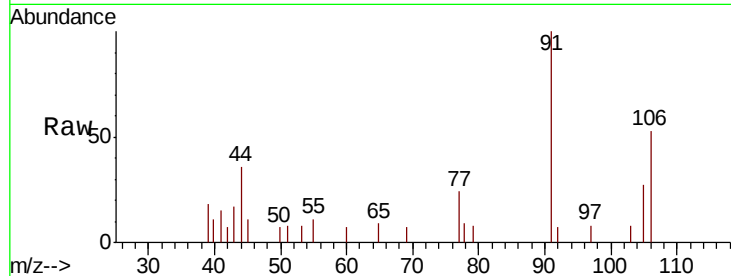




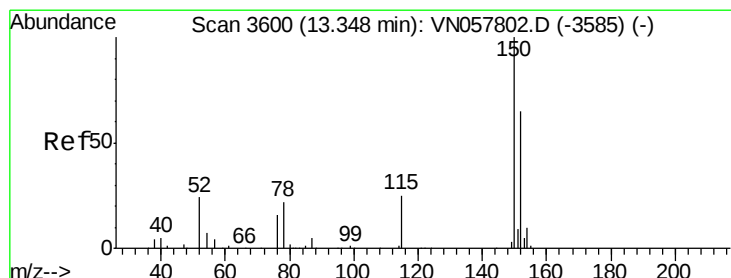
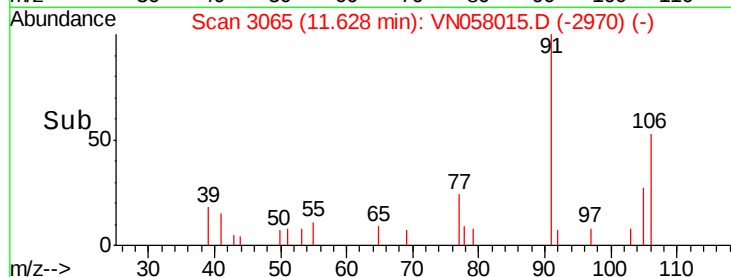
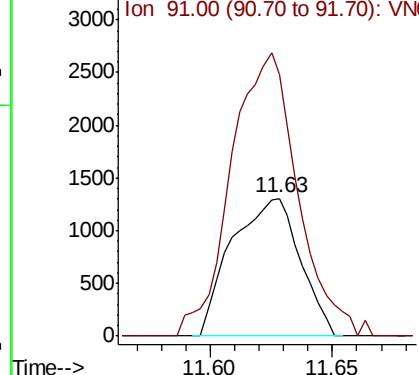
#68
m/p-Xylenes
Concen: 0.336 ug/l
RT: 11.63 min Scan# 3065
Delta R.T. 0.01 min
Lab File: VN058015.D
Acq: 13 Sep 2019 13:52

Instrument :
MSVOA_N
ClientSampleId :
N48987

Tgt Ion:106 Resp: 2539
Ion Ratio Lower Upper
106 100
91 201.2 165.8 248.6

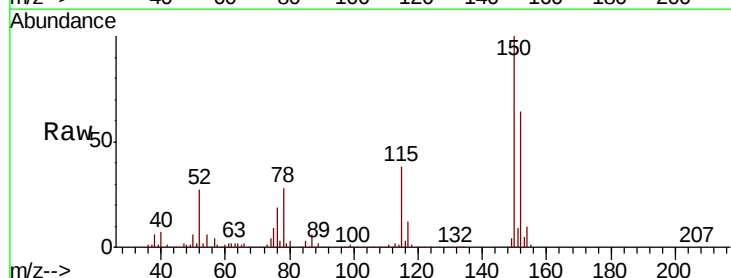


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V

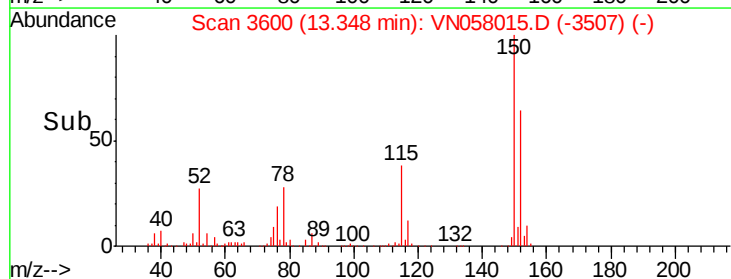
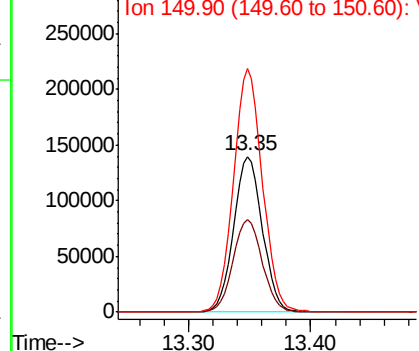


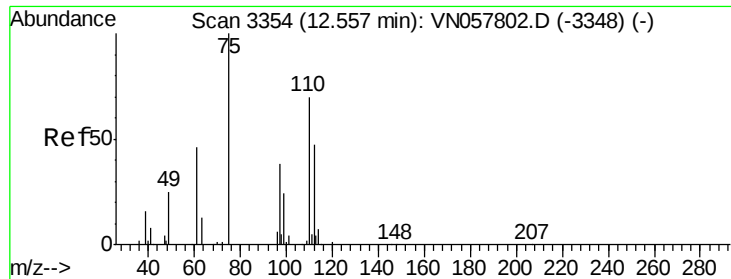
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3600
Delta R.T. 0.00 min
Lab File: VN058015.D
Acq: 13 Sep 2019 13:52

Tgt Ion:152 Resp: 229875
Ion Ratio Lower Upper
152 100
115 60.0 30.3 91.0
150 157.3 0.0 352.4



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: 29.990 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058015.D

Acq: 13 Sep 2019 13:52

Instrument :

MSVOA_N

ClientSampled :

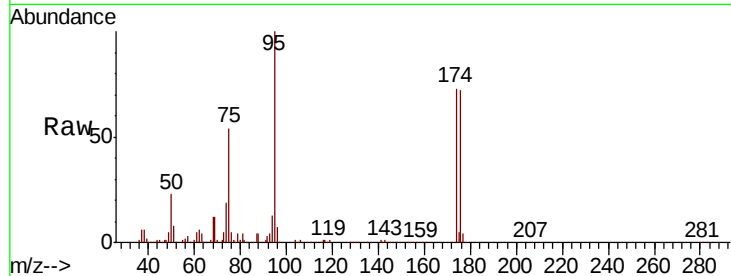
N48987

Tgt Ion: 75 Resp: 155951

Ion Ratio Lower Upper

75 100

77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

12.40

100000

80000

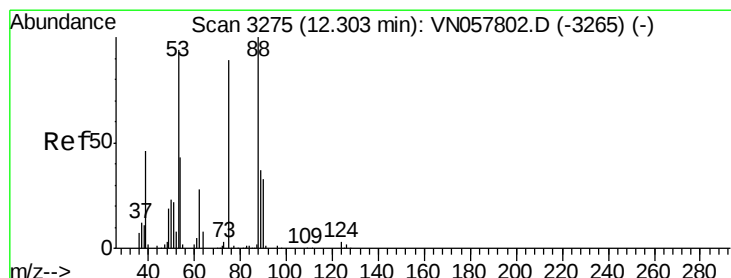
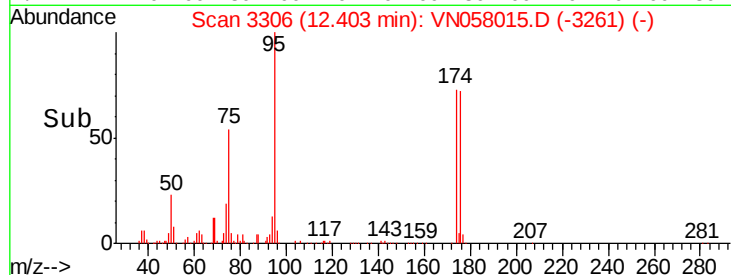
60000

40000

20000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 105.534 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058015.D

Acq: 13 Sep 2019 13:52

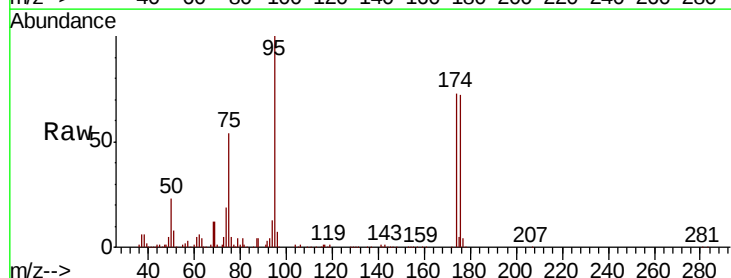
Tgt Ion: 75 Resp: 155951

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

89 0.0 35.3 52.9#



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

120000

100000

80000

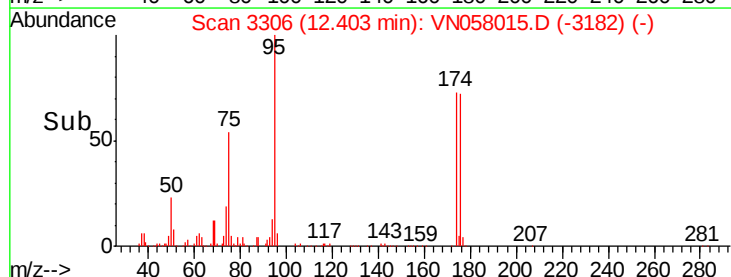
60000

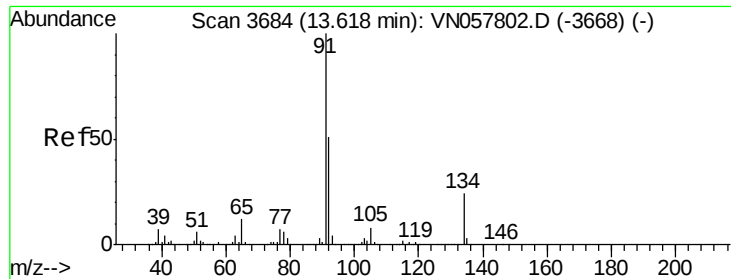
40000

20000

0

Time-->





#89

n-Butylbenzene

Concen: 0.227 ug/l

RT: 13.62 min Scan# 3685

Delta R.T. 0.00 min

Lab File: VN058015.D

Acq: 13 Sep 2019 13:52

Instrument :

MSVOA_N

ClientSampled :

N48987

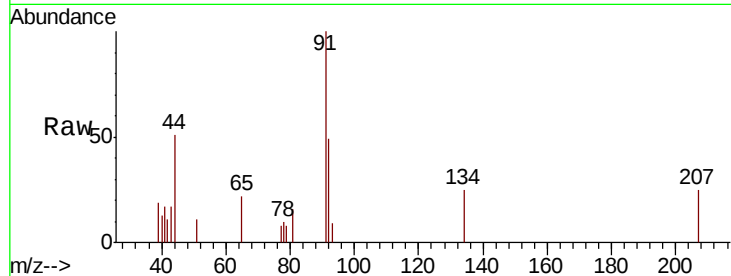
Tgt Ion: 91 Resp: 3351

Ion Ratio Lower Upper

91 100

92 48.2 25.7 77.0

134 30.8 11.9 35.7

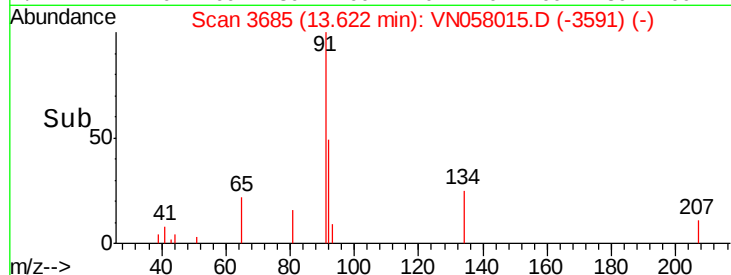


Abundance Ion 91.00 (90.70 to 91.70): VN058015.D (-3684) (-)

Ion 92.00 (91.70 to 92.70): VN058015.D (-3684) (-)

Ion 134.00 (133.70 to 134.70): VN058015.D (-3684) (-)

Time-->

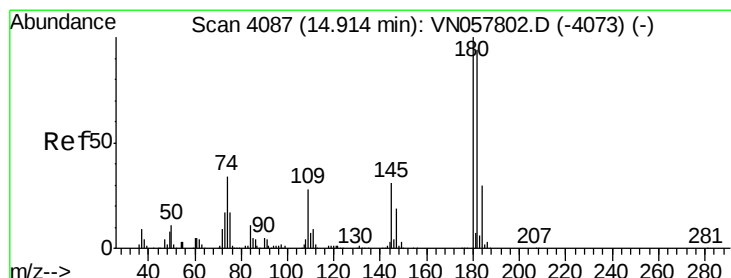


Abundance Ion 91.00 (90.70 to 91.70): VN058015.D (-3684) (-)

Ion 92.00 (91.70 to 92.70): VN058015.D (-3684) (-)

Ion 134.00 (133.70 to 134.70): VN058015.D (-3684) (-)

Time-->



#93

1,2,4-Trichlorobenzene

Concen: 0.579 ug/l

RT: 14.92 min Scan# 4089

Delta R.T. 0.01 min

Lab File: VN058015.D

Acq: 13 Sep 2019 13:52

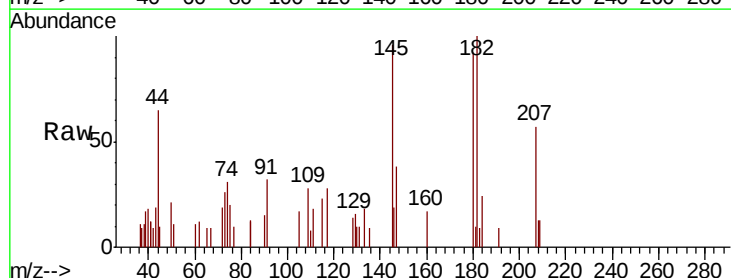
Tgt Ion: 180 Resp: 3084

Ion Ratio Lower Upper

180 100

182 102.4 46.9 140.8

145 143.7 14.9 44.7#

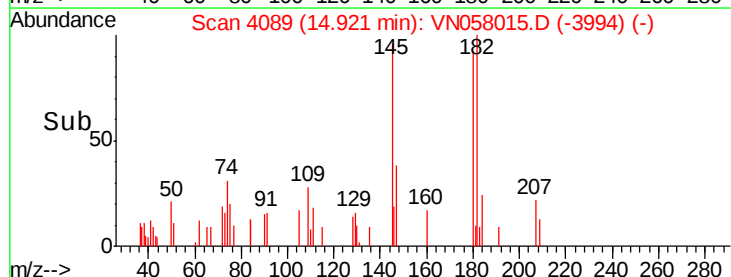


Abundance Ion 179.80 (179.50 to 180.50): VN058015.D (-4087) (-)

Ion 181.80 (181.50 to 182.50): VN058015.D (-4087) (-)

Ion 144.80 (144.50 to 145.50): VN058015.D (-4087) (-)

Time-->

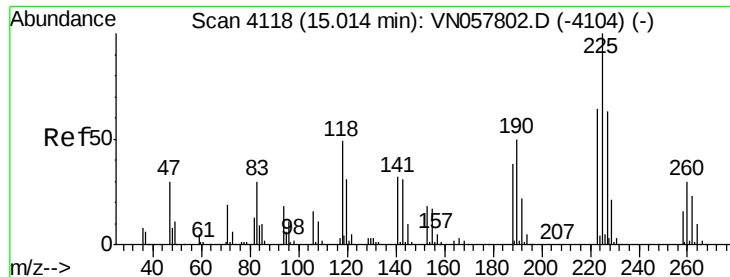


Abundance Ion 179.80 (179.50 to 180.50): VN058015.D (-4087) (-)

Ion 181.80 (181.50 to 182.50): VN058015.D (-4087) (-)

Ion 144.80 (144.50 to 145.50): VN058015.D (-4087) (-)

Time-->



#94

Hexachlorobutadiene

Concen: 0.241 ug/l

RT: 15.02 min Scan# 4119

Delta R.T. 0.00 min

Lab File: VN058015.D

Acq: 13 Sep 2019 13:52

Instrument :

MSVOA_N

ClientSampleId :

N48987

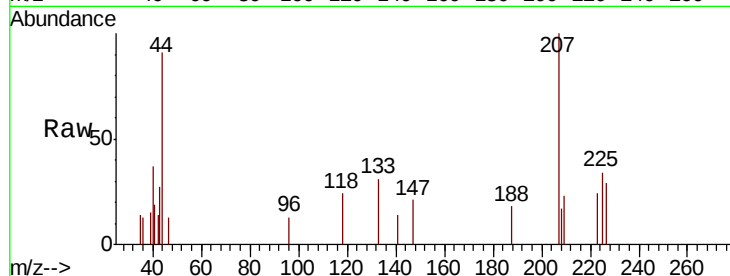
Tgt Ion:225 Resp: 544

Ion Ratio Lower Upper

225 100

223 38.6 32.4 97.2

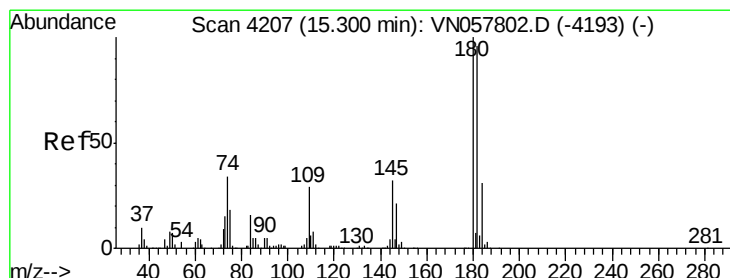
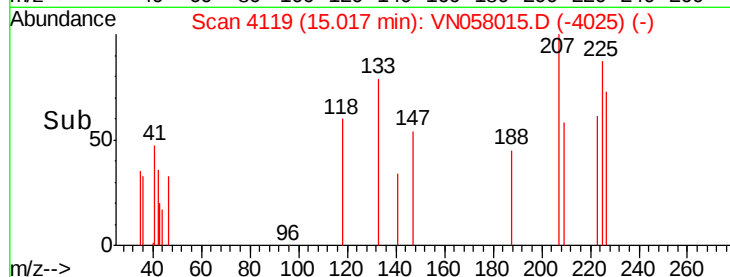
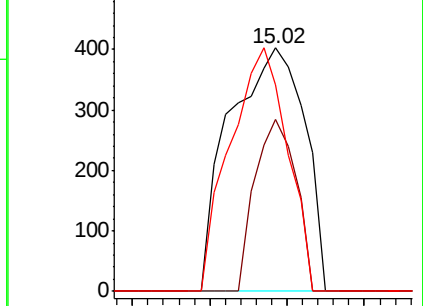
227 76.3 31.8 95.4



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#96

1,2,3-Trichlorobenzene

Concen: 1.852 ug/l

RT: 15.31 min Scan# 4209

Delta R.T. 0.01 min

Lab File: VN058015.D

Acq: 13 Sep 2019 13:52

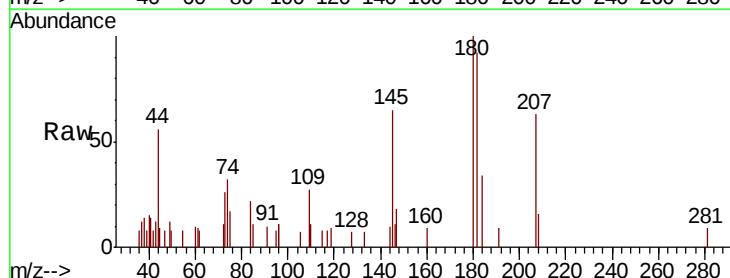
Tgt Ion:180 Resp: 4055

Ion Ratio Lower Upper

180 100

182 92.3 48.3 144.8

145 68.2 16.3 48.8#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

