

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN122718\
 Data File : VN053206.D
 Acq On : 27 Dec 2018 12:23
 Operator : MD\SY
 Sample : J6571-04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 50082-50083

Quant Time: Dec 28 01:21:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N121818W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 18 13:03:37 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1109665	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1720518	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1539220	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	657466	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.03	65	541298	48.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.14%	
35) Dibromofluoromethane	7.59	113	469770	59.77	ug/l	0.00
Spiked Amount	50.000		Recovery	=	119.54%	
50) Toluene-d8	10.09	98	2090895	49.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.12%	
62) 4-Bromofluorobenzene	12.40	95	700695	47.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.62%	

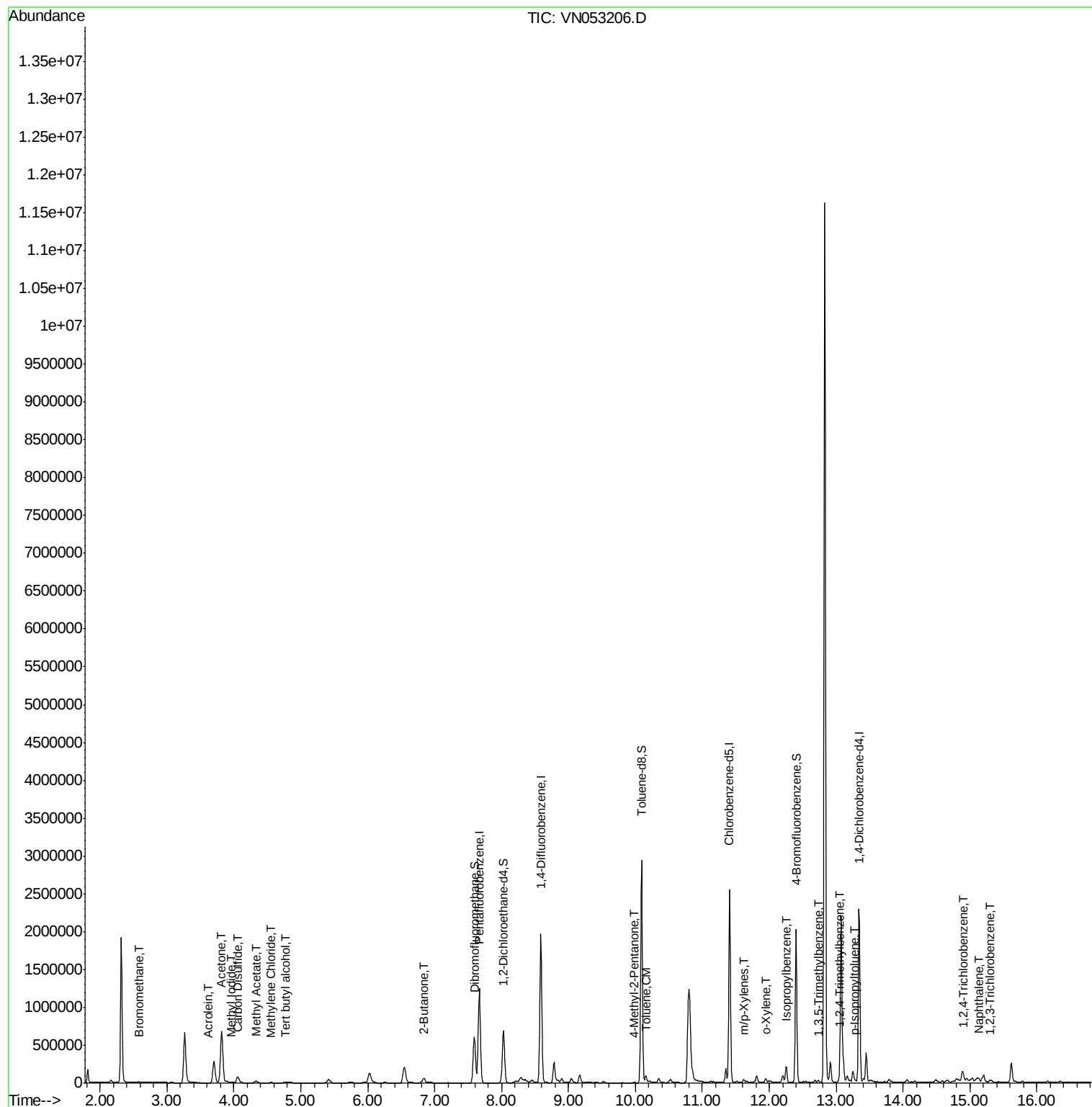
Target Compounds					Qvalue	
5) Bromomethane	2.58	94	5213	0.546	ug/l	92
10) Methyl Iodide	3.96	142	18670	1.214	ug/l	99
11) Tert butyl alcohol	4.78	59	28040	40.809	ug/l #	93
13) Acrolein	3.61	56	1618	2.597	ug/l #	83
16) Acetone	3.81	43	1135874	514.453	ug/l	96
17) Carbon Disulfide	4.07	76	13201	0.383	ug/l	100
18) Methyl Acetate	4.33	43	52064	6.084	ug/l	98
20) Methylene Chloride	4.55	84	4103	0.341	ug/l #	88
25) 2-Butanone	6.84	43	97050	26.191	ug/l	99
43) Isopropyl Acetate	8.19	43	9357	Below Cal	#	53
51) 4-Methyl-2-Pentanone	9.99	43	4424	0.496	ug/l	93
52) Toluene	10.16	92	38795	1.274	ug/l	99
68) m/p-Xylenes	11.62	106	11119	0.498	ug/l	98
69) o-Xylene	11.95	106	5206	0.243	ug/l	98
73) Isopropylbenzene	12.25	105	12776	0.248	ug/l #	68
80) 1,3,5-Trimethylbenzene	12.73	105	9120	0.218	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	22417	0.532	ug/l	77
86) p-Isopropyltoluene	13.29	119	11183	0.258	ug/l	90
93) 1,2,4-Trichlorobenzene	14.91	180	6985	1.181	ug/l	98
95) Naphthalene	15.13	128	39817	2.652	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.31	180	7729	1.228	ug/l	98

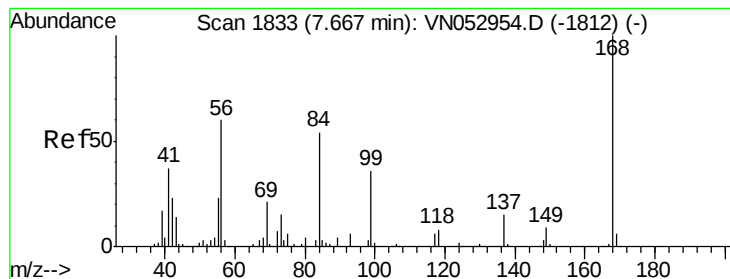
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN053206.D

Acq: 27 Dec 2018 12:23

Instrument :

MSVOA_N

ClientSampled :

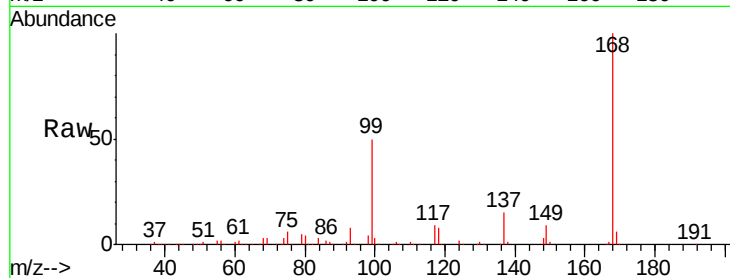
50082-50083

Tgt Ion:168 Resp: 1109665

Ion Ratio Lower Upper

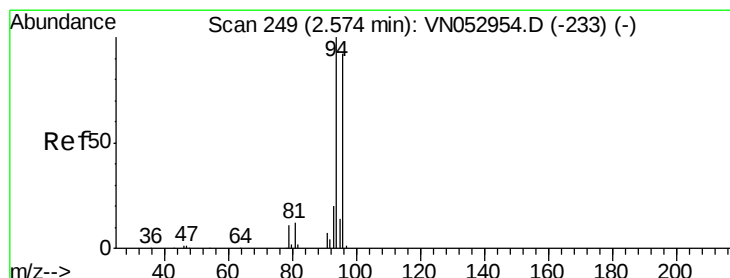
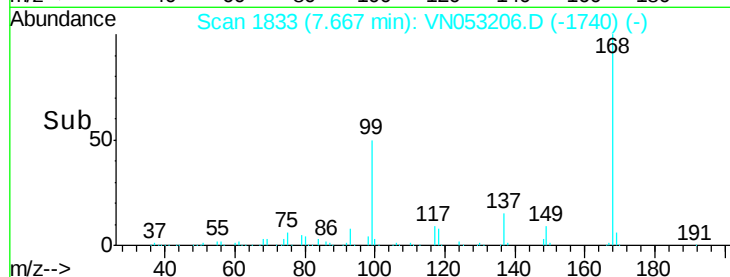
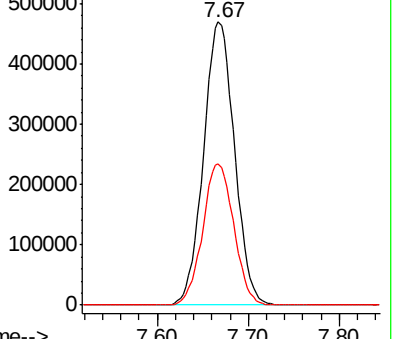
168 100

99 49.9 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#5

Bromomethane

Concen: 0.546 ug/l

RT: 2.58 min Scan# 250

Delta R.T. 0.00 min

Lab File: VN053206.D

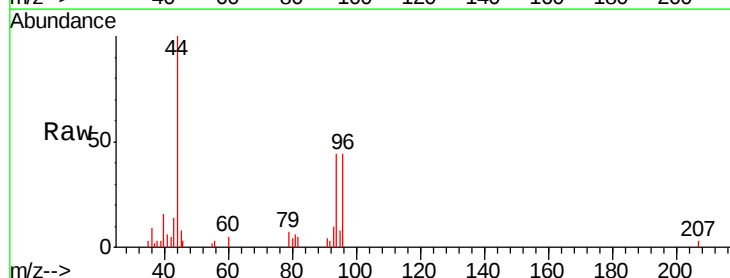
Acq: 27 Dec 2018 12:23

Tgt Ion: 94 Resp: 5213

Ion Ratio Lower Upper

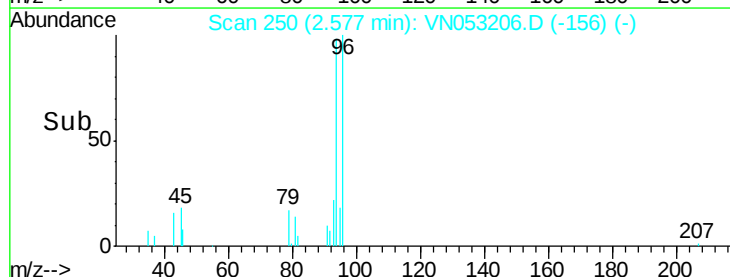
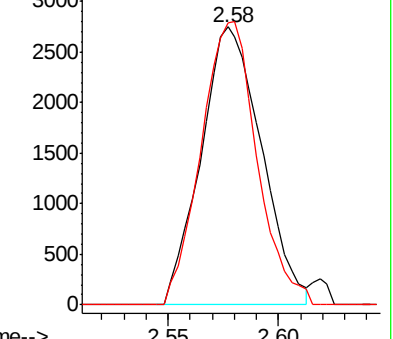
94 100

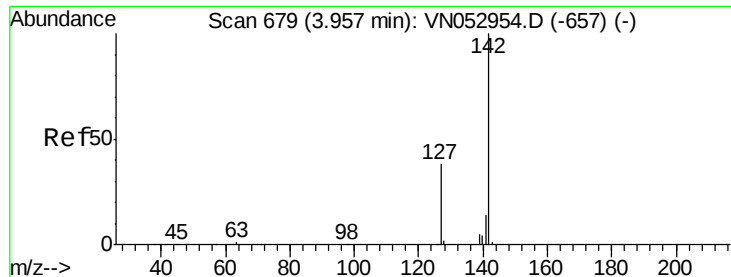
96 101.6 75.0 112.4



Abundance Ion 93.90 (93.60 to 94.60): VNO

Ion 95.90 (95.60 to 96.60): VNO





#10

Methyl Iodide

Concen: 1.214 ug/l

RT: 3.96 min Scan# 679

Delta R.T. -0.00 min

Lab File: VN053206.D

Acq: 27 Dec 2018 12:23

Instrument :

MSVOA_N

ClientSampleId :

50082-50083

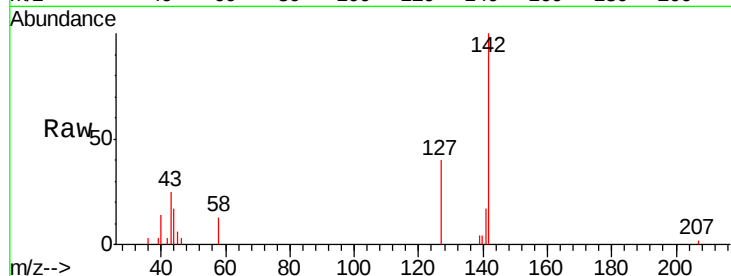
Tgt Ion:142 Resp: 18670

Ion Ratio Lower Upper

142 100

127 37.7 31.0 46.6

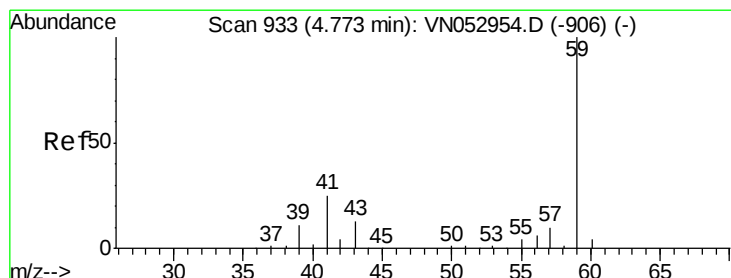
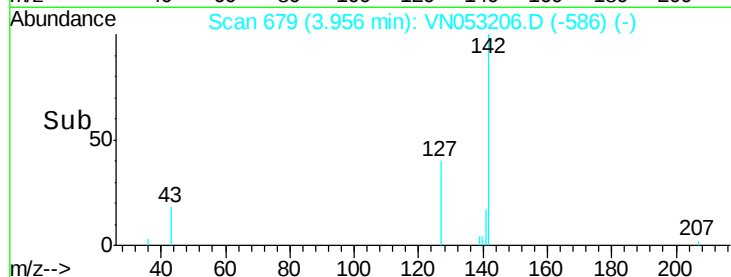
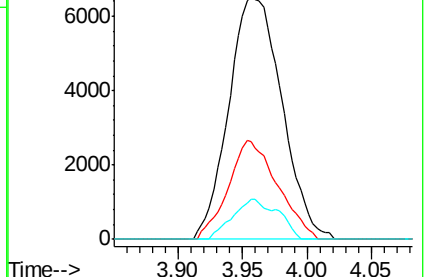
141 14.1 11.2 16.8



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 40.809 ug/l

RT: 4.78 min Scan# 934

Delta R.T. 0.00 min

Lab File: VN053206.D

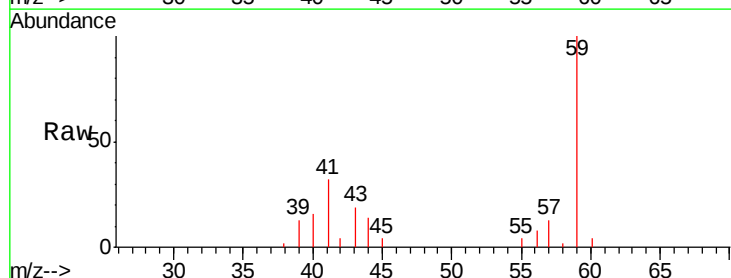
Acq: 27 Dec 2018 12:23

Tgt Ion: 59 Resp: 28040

Ion Ratio Lower Upper

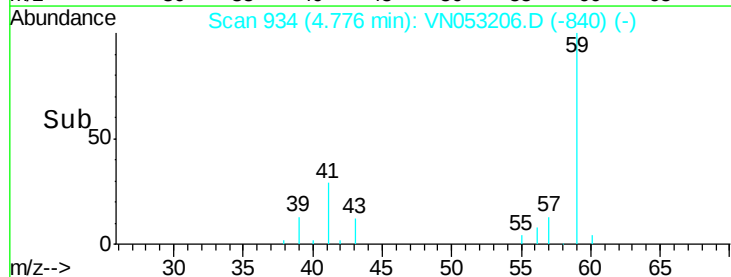
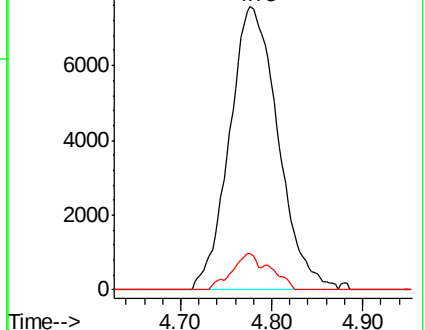
59 100

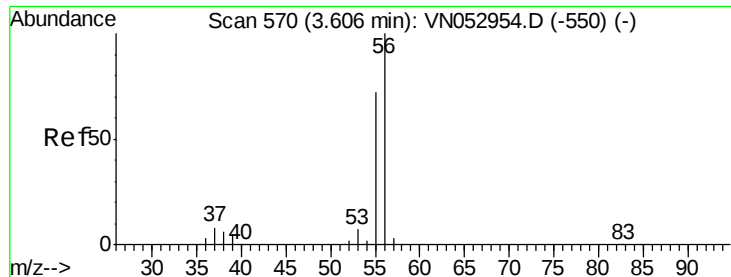
57 7.2 7.7 11.5#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0





#13

Acrolein

Concen: 2.597 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053206.D

Acq: 27 Dec 2018 12:23

Instrument :

MSVOA_N

ClientSampled :

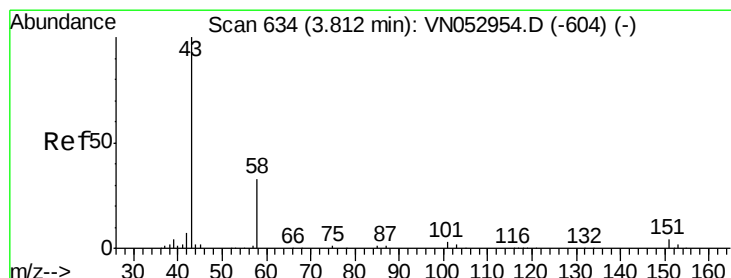
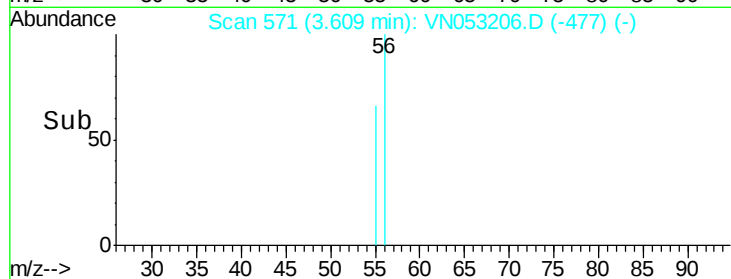
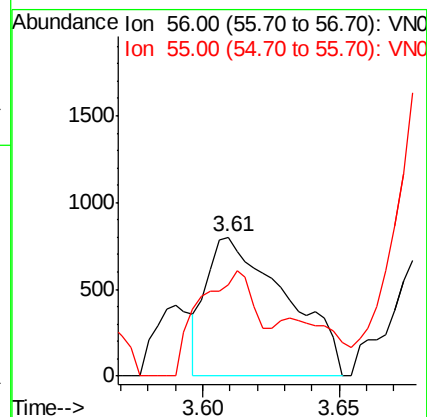
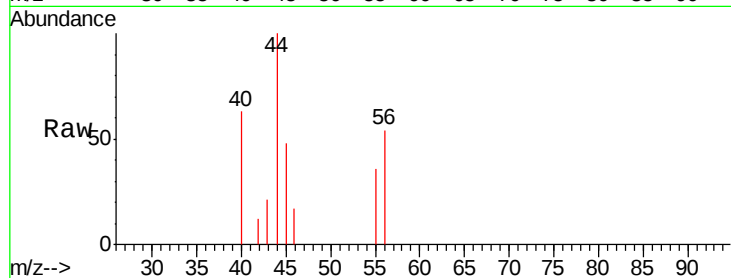
50082-50083

Tgt Ion: 56 Resp: 1618

Ion Ratio Lower Upper

56 100

55 56.6 56.6 85.0#



#16

Acetone

Concen: 514.453 ug/l

RT: 3.81 min Scan# 635

Delta R.T. 0.00 min

Lab File: VN053206.D

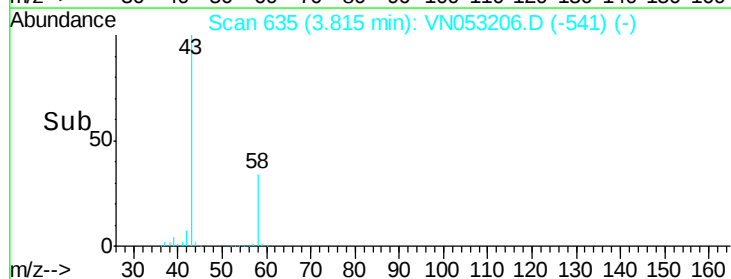
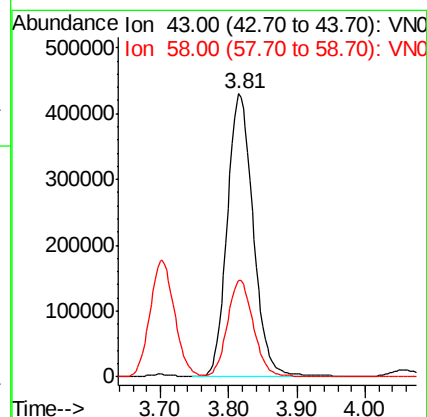
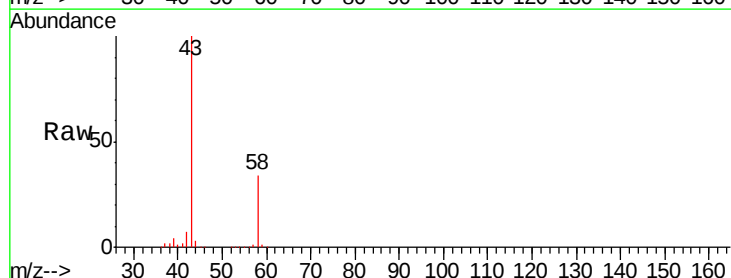
Acq: 27 Dec 2018 12:23

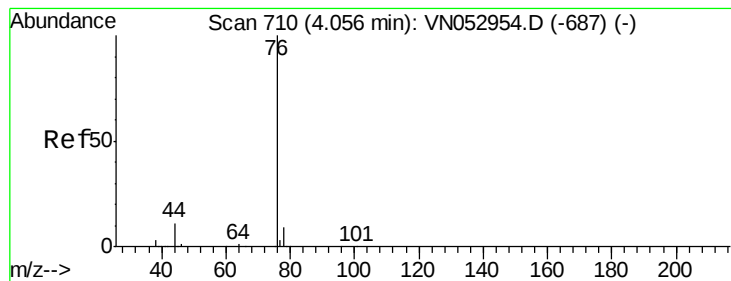
Tgt Ion: 43 Resp: 1135874

Ion Ratio Lower Upper

43 100

58 34.0 25.4 38.0





#17

Carbon Disulfide

Concen: 0.383 ug/l

RT: 4.07 min Scan# 713

Delta R.T. 0.01 min

Lab File: VN053206.D

Acq: 27 Dec 2018 12:23

Instrument :

MSVOA_N

ClientSampled :

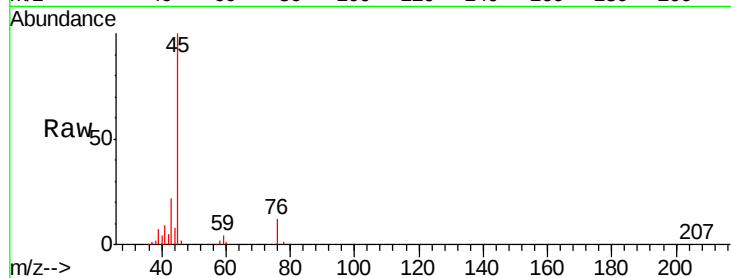
50082-50083

Tgt Ion: 76 Resp: 13201

Ion Ratio Lower Upper

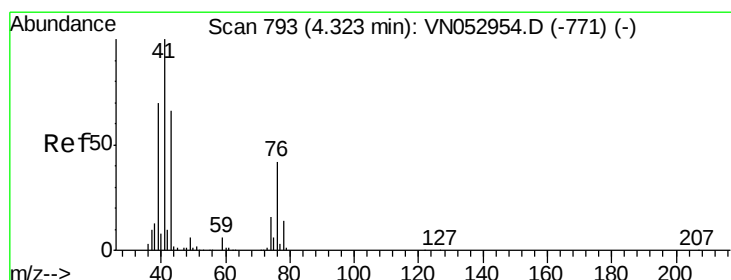
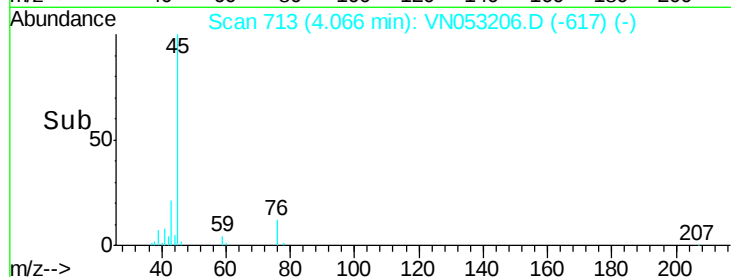
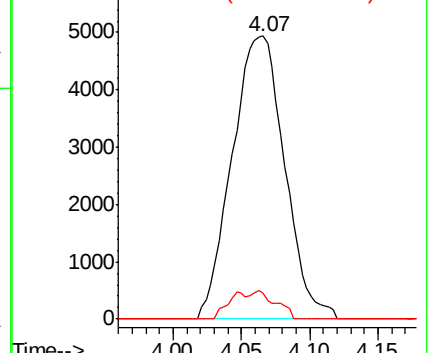
76 100

78 9.1 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 6.084 ug/l

RT: 4.33 min Scan# 795

Delta R.T. 0.01 min

Lab File: VN053206.D

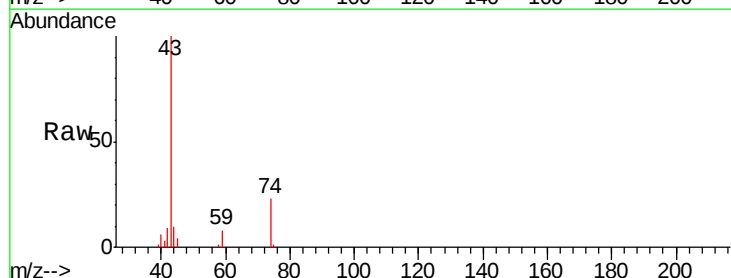
Acq: 27 Dec 2018 12:23

Tgt Ion: 43 Resp: 52064

Ion Ratio Lower Upper

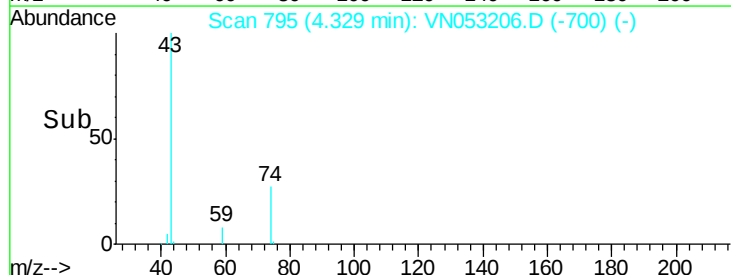
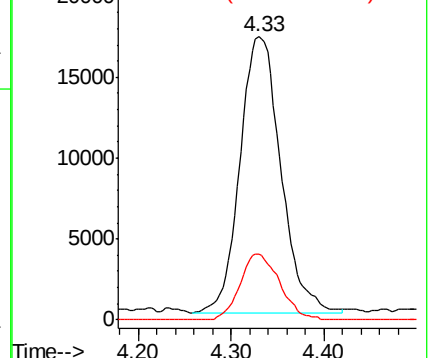
43 100

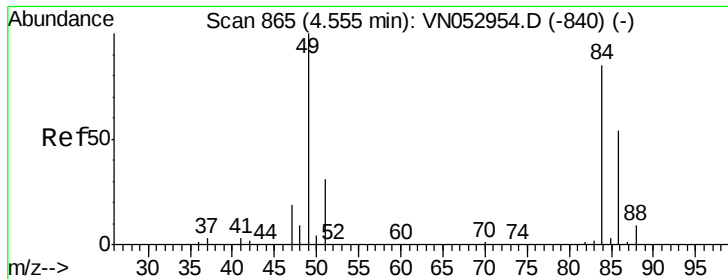
74 23.2 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





#20

Methylene Chloride

Concen: 0.341 ug/l

RT: 4.55 min Scan# 864

Delta R.T. -0.00 min

Lab File: VN053206.D

Acq: 27 Dec 2018 12:23

Instrument :

MSVOA_N

ClientSampleId :

50082-50083

Tgt Ion: 84 Resp: 4103

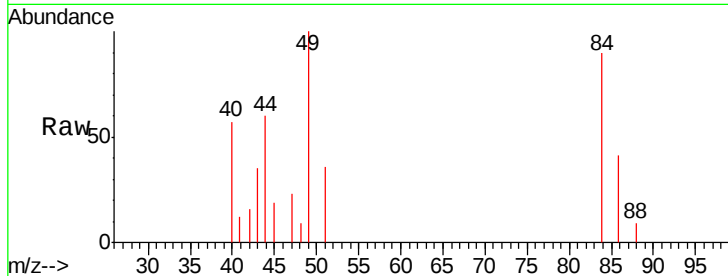
Ion Ratio Lower Upper

84 100

49 111.7 96.8 145.2

51 40.3 29.9 44.9

86 46.1 51.8 77.6#

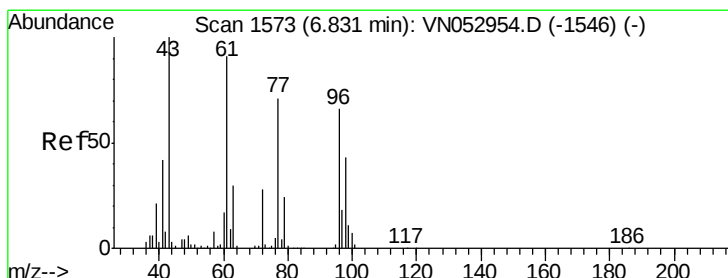
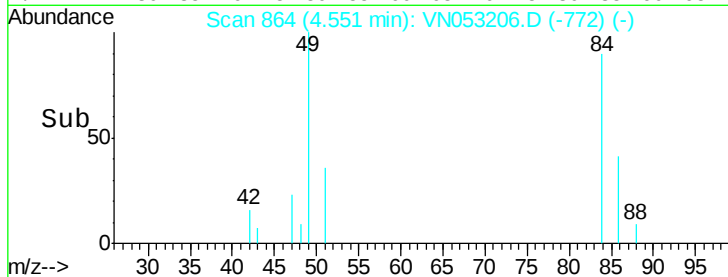
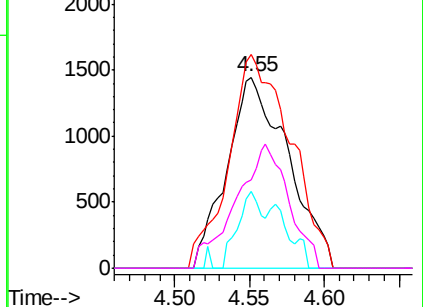


Abundance Ion 83.90 (83.60 to 84.60): VN0

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: 26.191 ug/l

RT: 6.84 min Scan# 1575

Delta R.T. 0.01 min

Lab File: VN053206.D

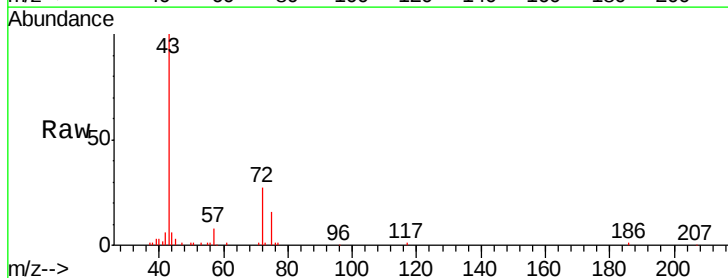
Acq: 27 Dec 2018 12:23

Tgt Ion: 43 Resp: 97050

Ion Ratio Lower Upper

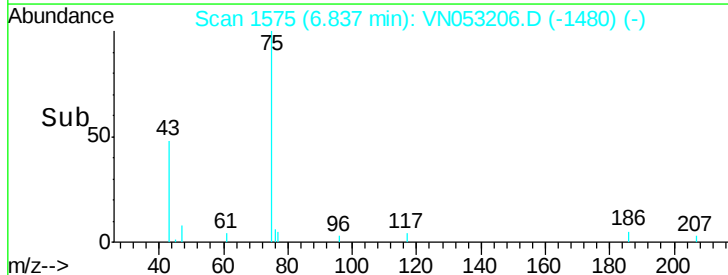
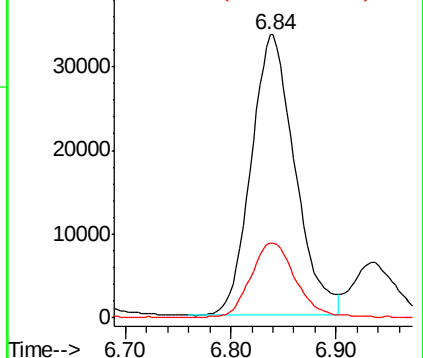
43 100

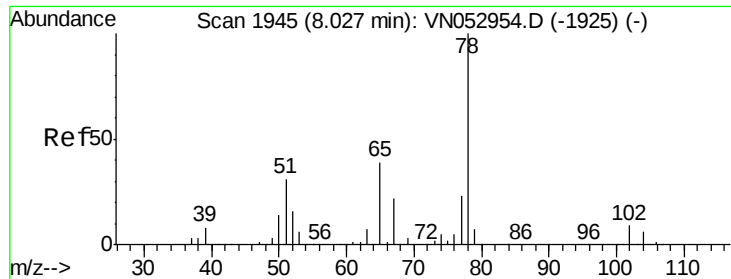
72 26.8 21.0 31.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#33

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. -0.00 min

Lab File: VN053206.D

Acq: 27 Dec 2018 12:23

Instrument :

MSVOA_N

ClientSampleId :

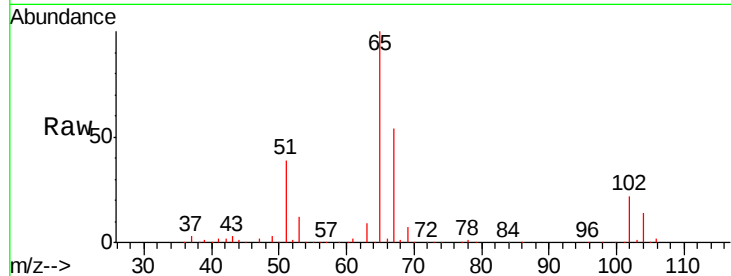
50082-50083

Tgt Ion: 65 Resp: 541298

Ion Ratio Lower Upper

65 100

67 55.1 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

8.03

250000

200000

150000

100000

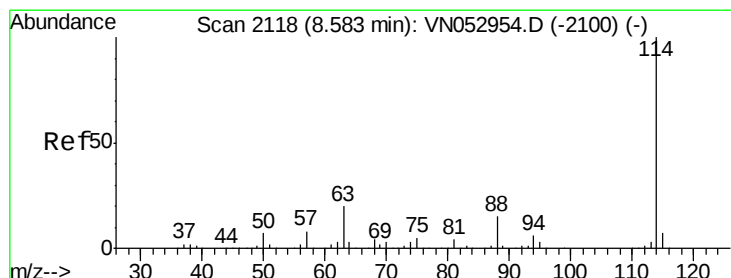
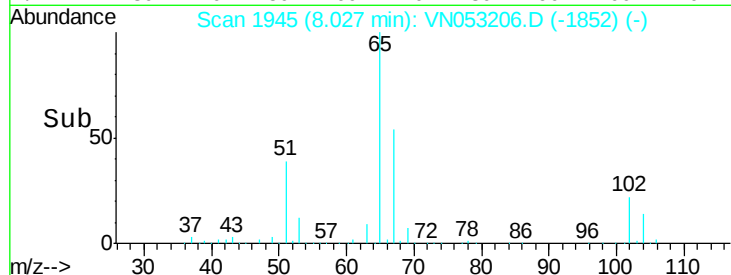
50000

0

Time--> 7.90

8.00

8.10



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN053206.D

Acq: 27 Dec 2018 12:23

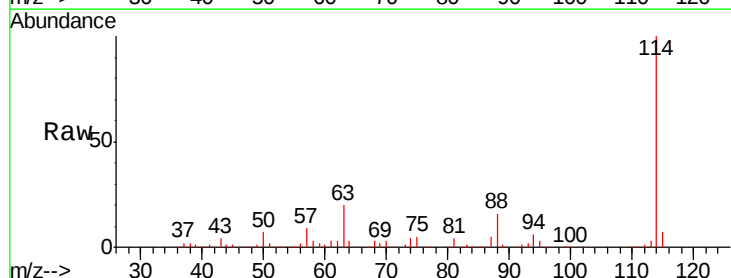
Tgt Ion: 114 Resp: 1720518

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.8

88 15.6 0.0 31.0



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0

8.59

1000000

800000

600000

400000

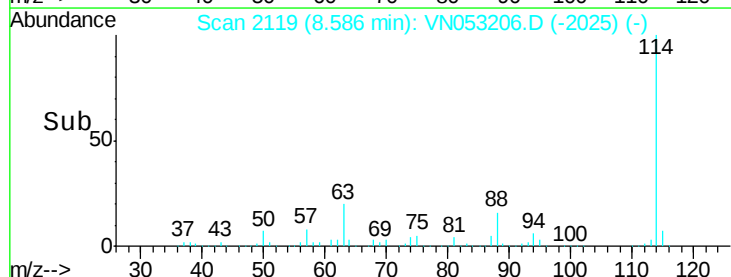
200000

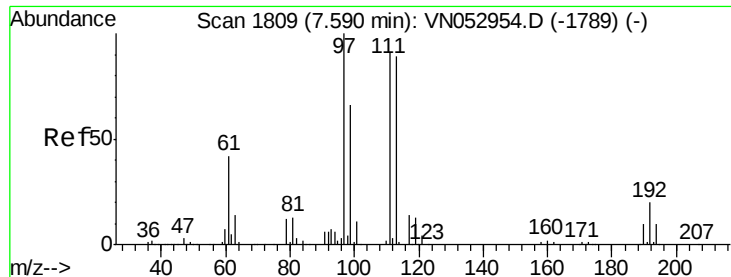
0

Time--> 8.50

8.60

8.70

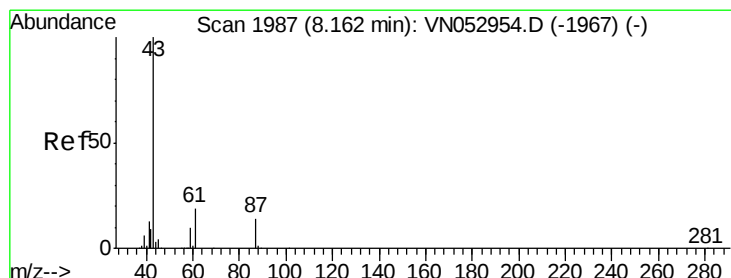
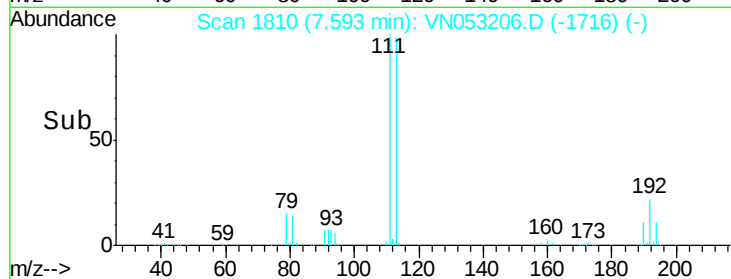
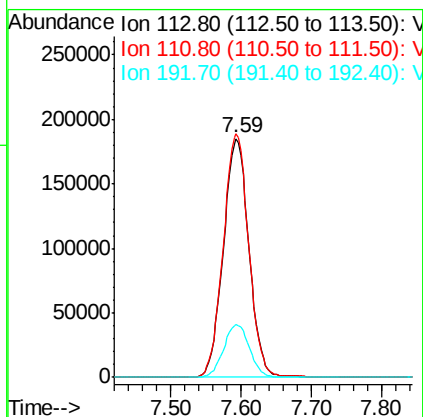
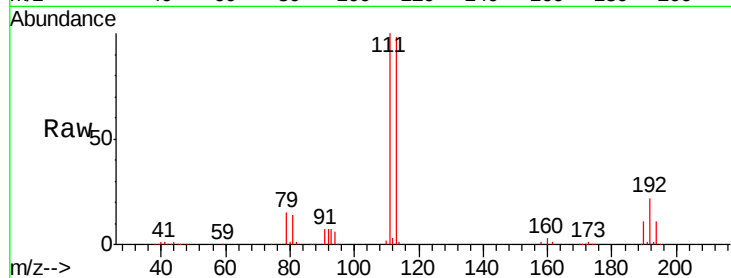




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN053206.D
 Acq: 27 Dec 2018 12:23

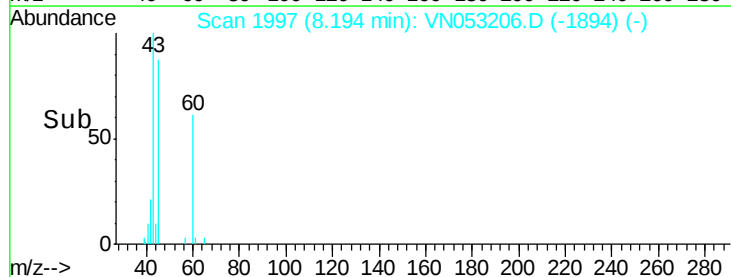
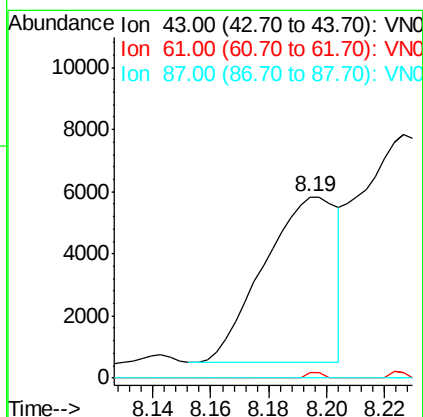
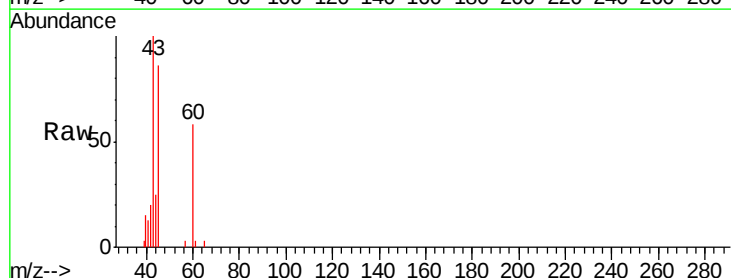
Instrument :
 MSVOA_N
 ClientSampleId :
 50082-50083

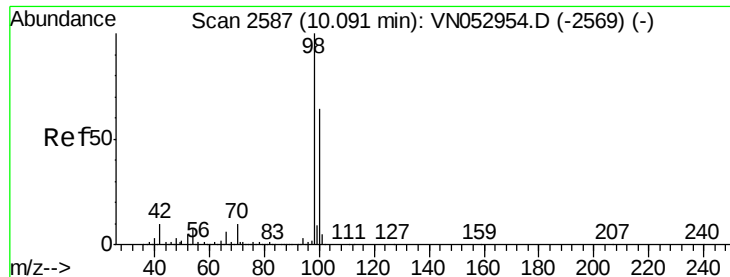
Tgt Ion: 113 Resp: 469770
 Ion Ratio Lower Upper
 113 100
 111 101.3 83.0 124.4
 192 22.4 17.5 26.3



#43
 Isopropyl Acetate
 Concen: Below Cal
 RT: 8.19 min Scan# 1997
 Delta R.T. 0.03 min
 Lab File: VN053206.D
 Acq: 27 Dec 2018 12:23

Tgt Ion: 43 Resp: 9357
 Ion Ratio Lower Upper
 43 100
 61 0.0 22.9 34.3#
 87 0.0 10.6 15.8#





#50

Toluene-d8

Concen: N.D. ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN053206.D

Acq: 27 Dec 2018 12:23

Instrument :

MSVOA_N

ClientSampleId :

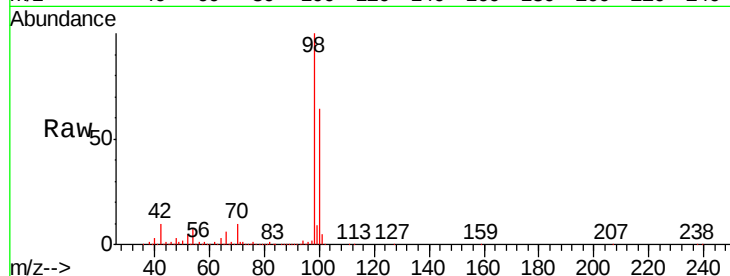
50082-50083

Tgt Ion: 98 Resp: 2090895

Ion Ratio Lower Upper

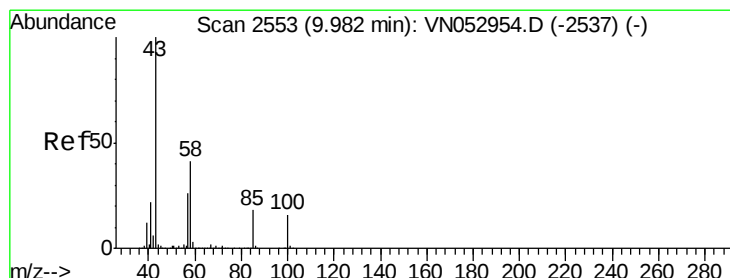
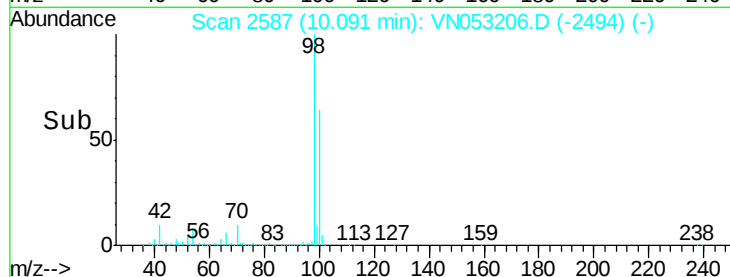
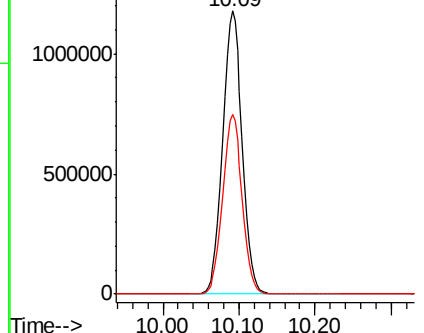
98 100

100 63.6 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN053206.D (-2494) (-)

Ion 100.00 (99.70 to 100.70): VN053206.D (-2494) (-)



#51

4-Methyl-2-Pentanone

Concen: 0.496 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053206.D

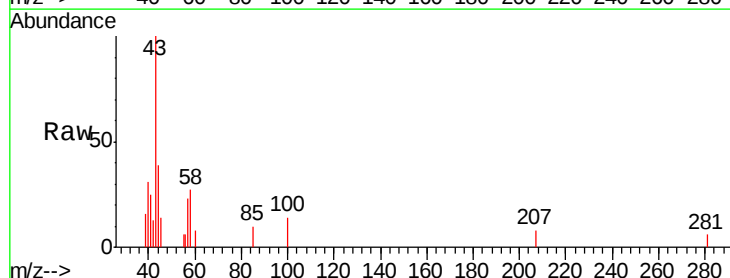
Acq: 27 Dec 2018 12:23

Tgt Ion: 43 Resp: 4424

Ion Ratio Lower Upper

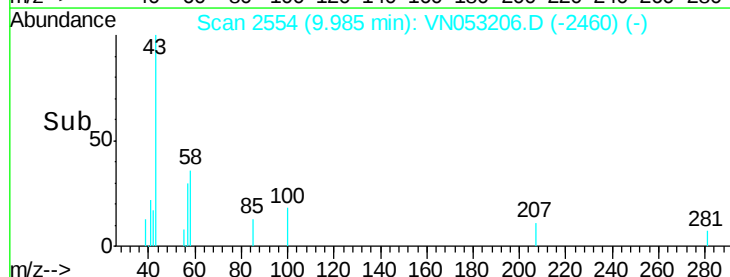
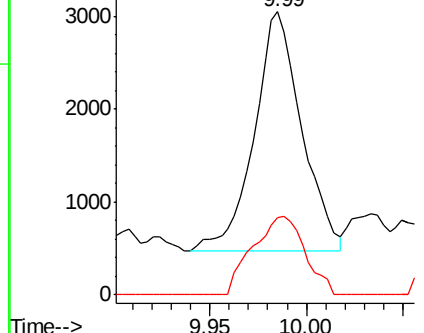
43 100

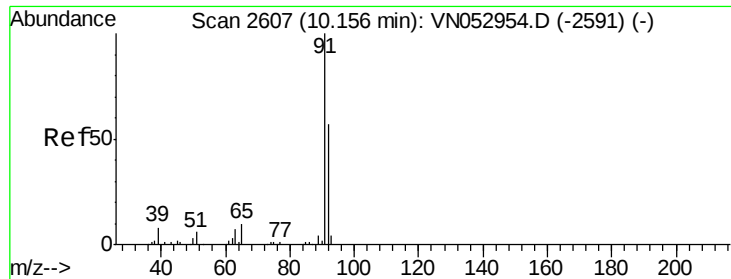
58 35.8 32.2 48.4



Abundance Ion 43.00 (42.70 to 43.70): VN053206.D (-2460) (-)

Ion 58.00 (57.70 to 58.70): VN053206.D (-2460) (-)





#52

Toluene

Concen: 1.274 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN053206.D

Acq: 27 Dec 2018 12:23

Instrument :

MSVOA_N

ClientSampleId :

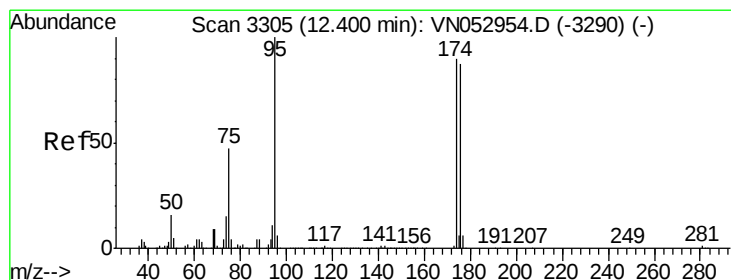
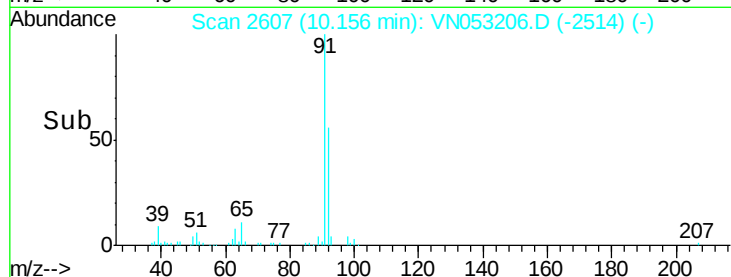
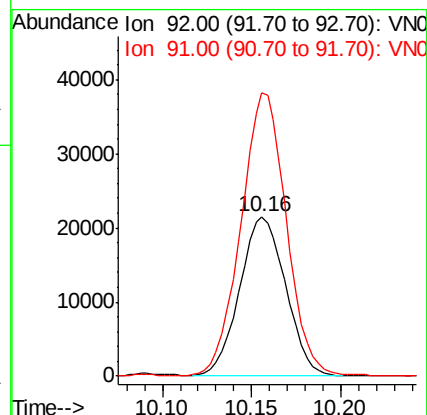
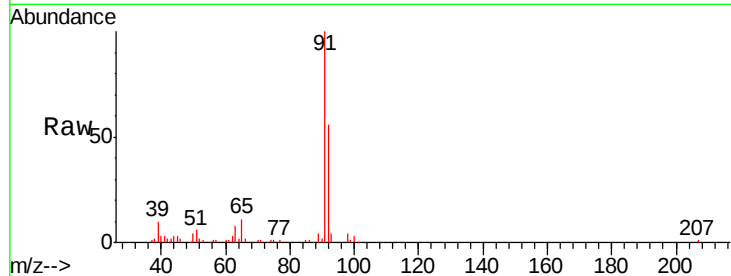
50082-50083

Tgt Ion: 92 Resp: 38795

Ion Ratio Lower Upper

92 100

91 175.8 139.8 209.6



#62

4-Bromofluorobenzene

Concen: Below ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.00 min

Lab File: VN053206.D

Acq: 27 Dec 2018 12:23

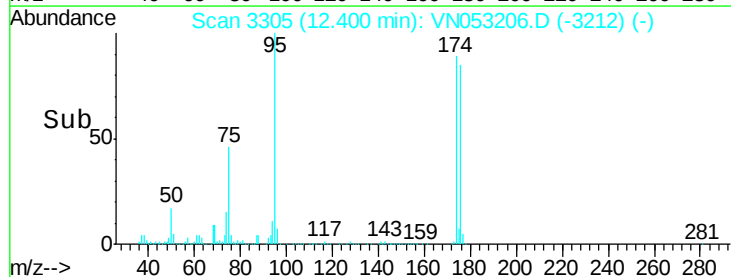
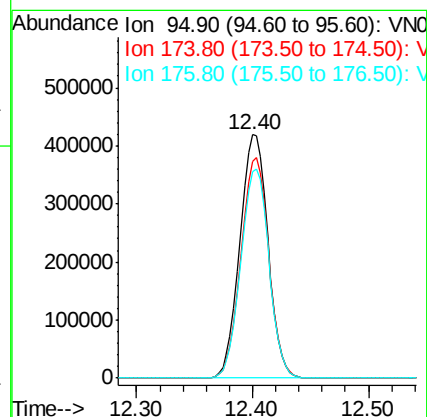
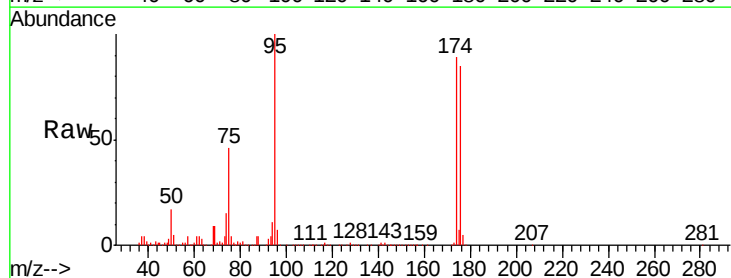
Tgt Ion: 95 Resp: 700695

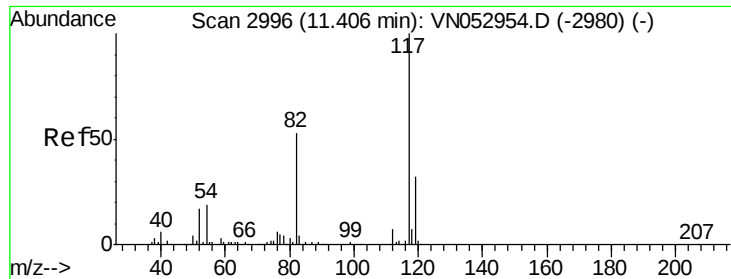
Ion Ratio Lower Upper

95 100

174 89.7 0.0 178.8

176 86.3 0.0 173.8

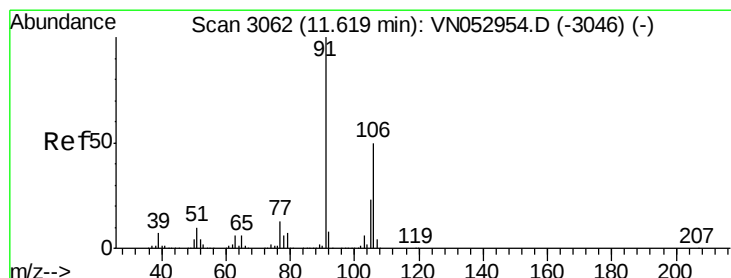
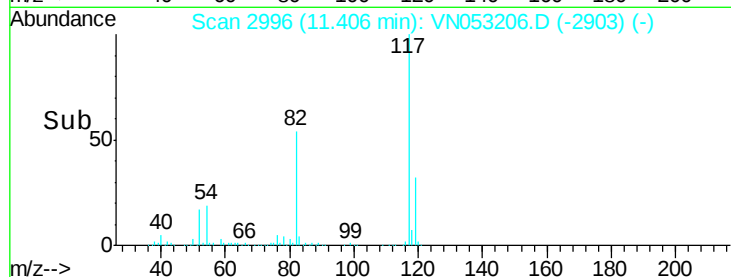
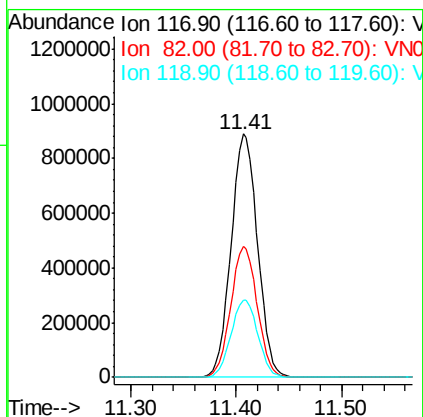
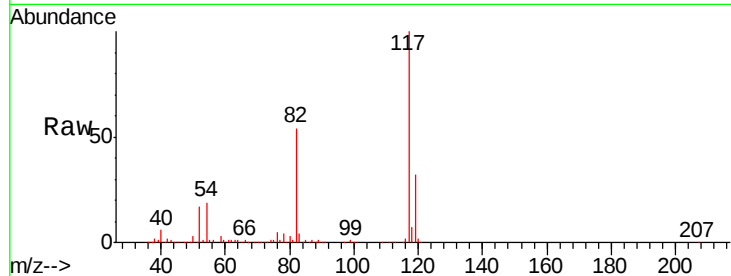




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN053206.D
Acq: 27 Dec 2018 12:23

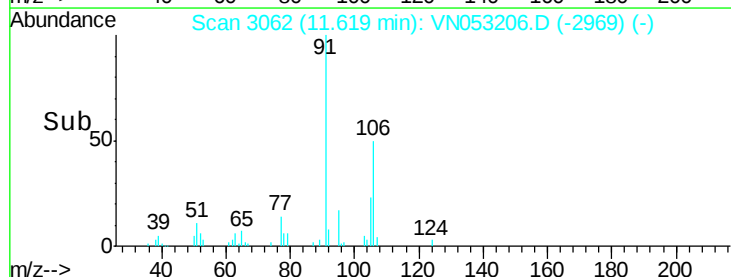
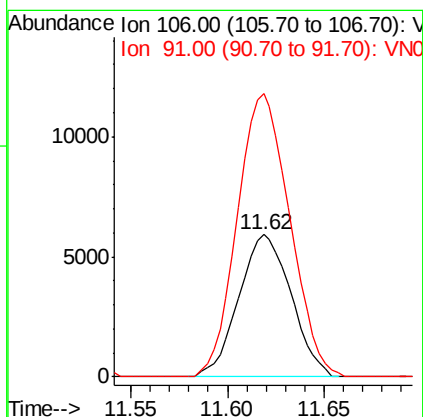
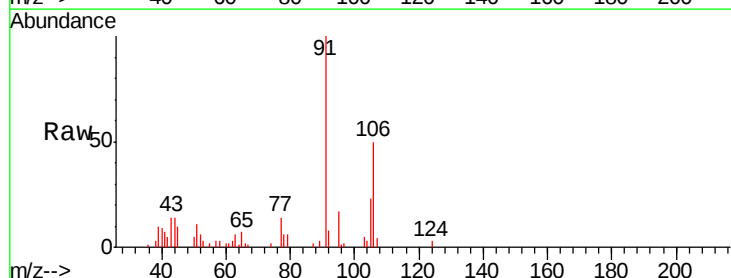
Instrument :
MSVOA_N
ClientSampled :
50082-50083

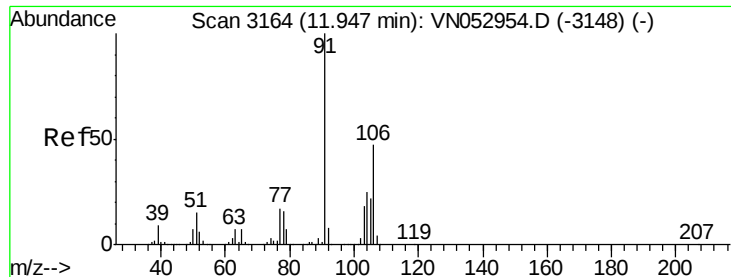
Tgt Ion:117 Resp: 1539220
Ion Ratio Lower Upper
117 100
82 53.8 42.8 64.2
119 31.9 25.5 38.3



#68
m/p-Xylenes
Concen: 0.498 ug/l
RT: 11.62 min Scan# 3062
Delta R.T. -0.00 min
Lab File: VN053206.D
Acq: 27 Dec 2018 12:23

Tgt Ion:106 Resp: 11119
Ion Ratio Lower Upper
106 100
91 199.6 162.2 243.4

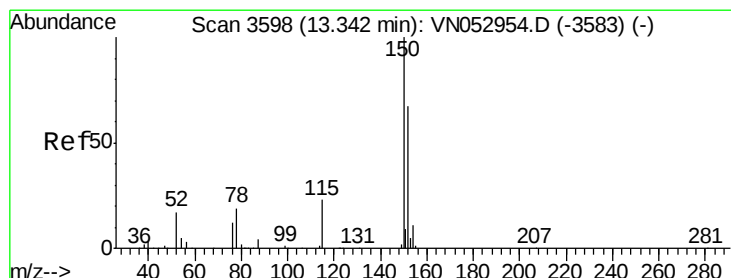
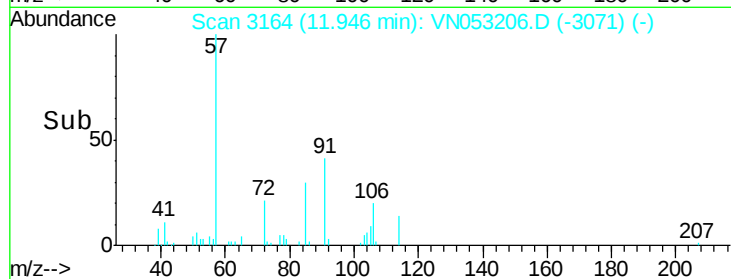
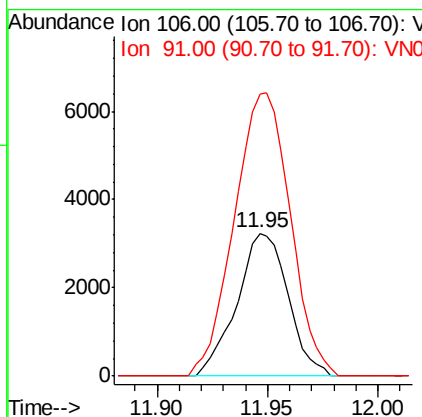
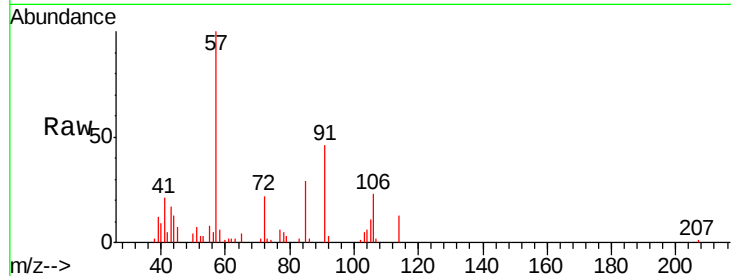




#69
o-Xylene
Concen: 0.243 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN053206.D
Acq: 27 Dec 2018 12:23

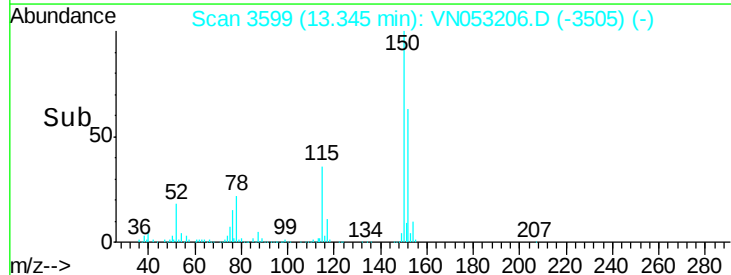
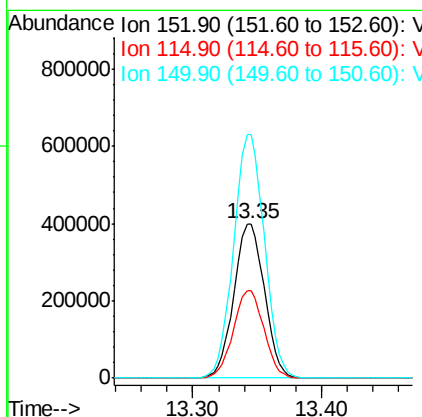
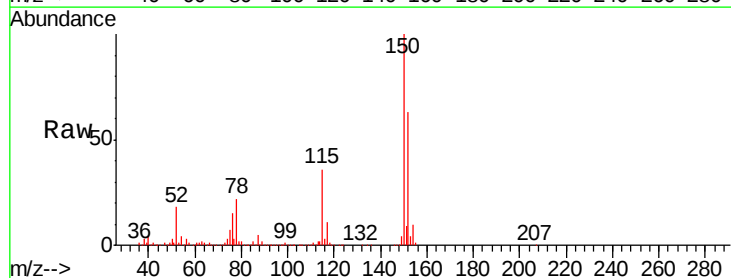
Instrument :
MSVOA_N
ClientSampleId :
50082-50083

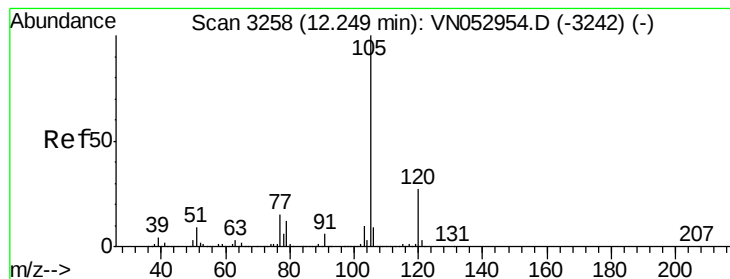
Tgt Ion:106 Resp: 5206
Ion Ratio Lower Upper
106 100
91 216.6 106.6 319.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN053206.D
Acq: 27 Dec 2018 12:23

Tgt Ion:152 Resp: 657466
Ion Ratio Lower Upper
152 100
115 56.5 28.3 85.0
150 158.9 0.0 347.8





#73

Isopropylbenzene

Concen: 0.248 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN053206.D

Acq: 27 Dec 2018 12:23

Instrument :

MSVOA_N

ClientSampled :

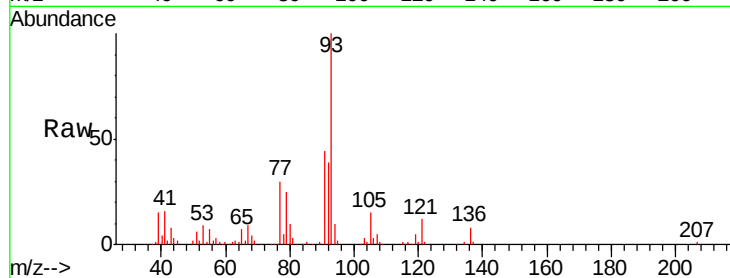
50082-50083

Tgt Ion:105 Resp: 12776

Ion Ratio Lower Upper

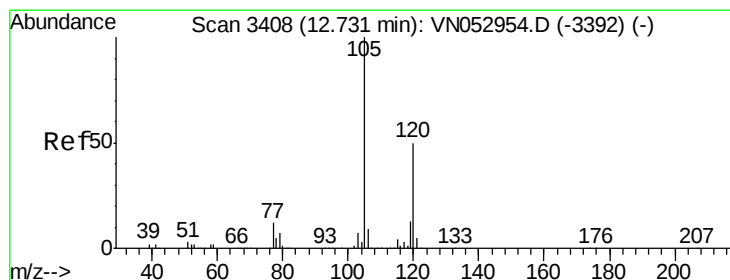
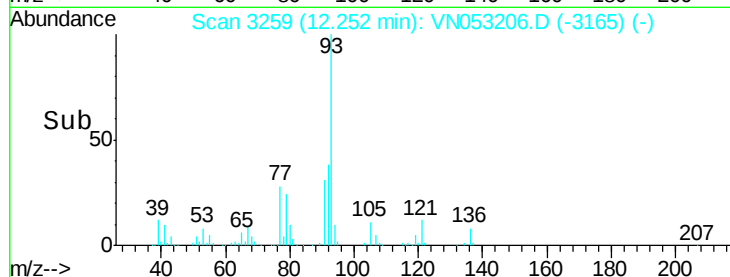
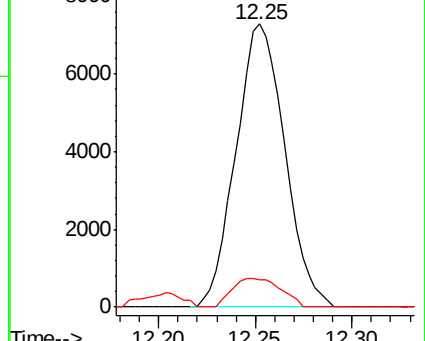
105 100

120 10.1 13.3 39.9#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#80

1,3,5-Trimethylbenzene

Concen: 0.218 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053206.D

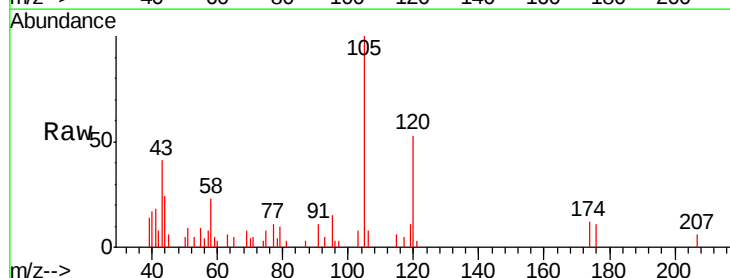
Acq: 27 Dec 2018 12:23

Tgt Ion:105 Resp: 9120

Ion Ratio Lower Upper

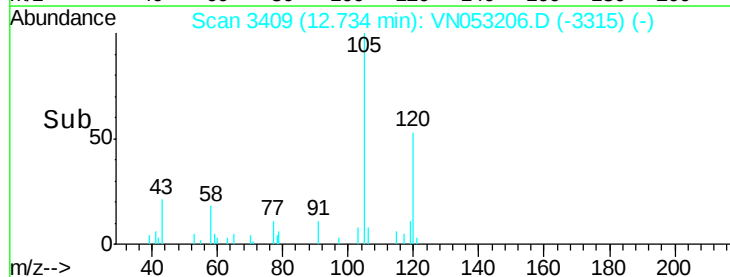
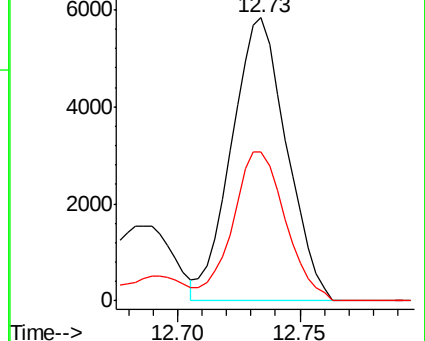
105 100

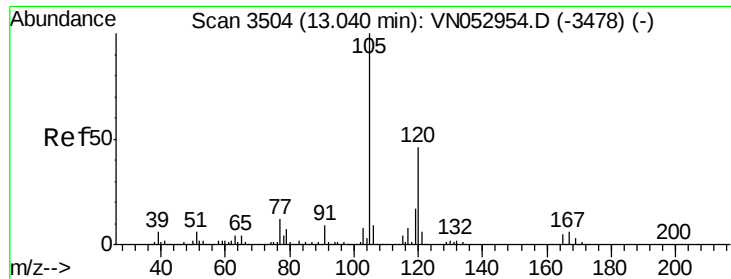
120 50.3 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#84

1,2,4-Trimethylbenzene

Concen: 0.532 ug/l

RT: 13.04 min Scan# 3504

Delta R.T. -0.00 min

Lab File: VN053206.D

Acq: 27 Dec 2018 12:23

Instrument :

MSVOA_N

ClientSampleId :

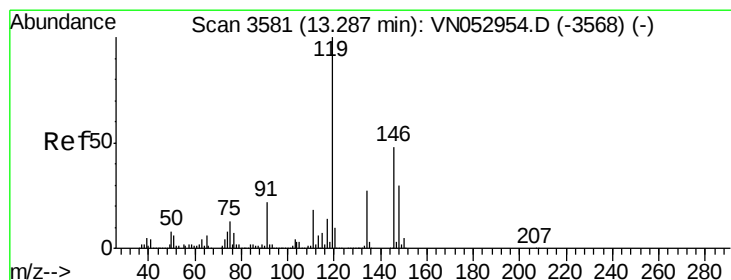
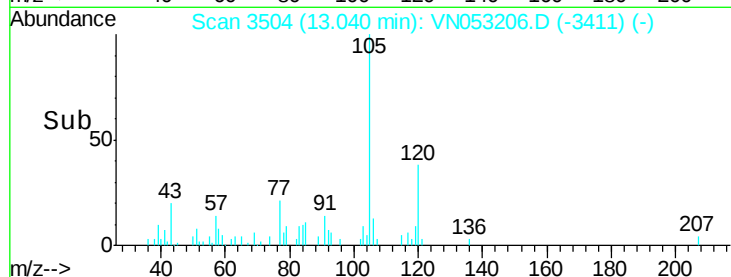
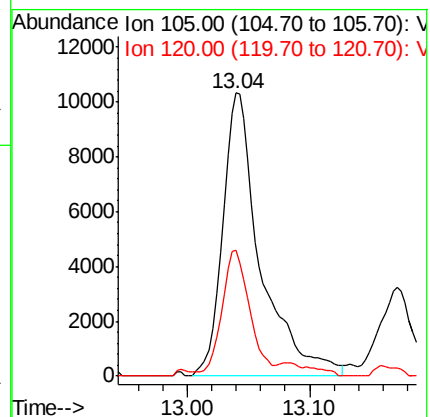
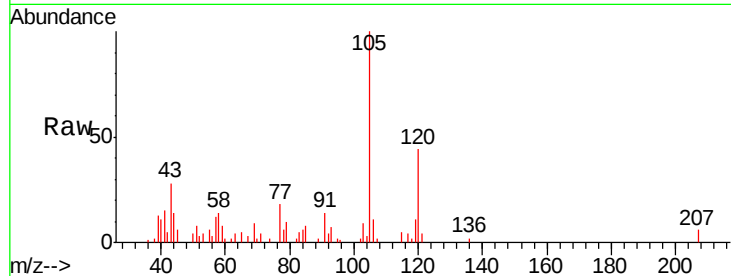
50082-50083

Tgt Ion:105 Resp: 22417

Ion Ratio Lower Upper

105 100

120 30.9 22.9 68.8



#86

p-Isopropyltoluene

Concen: 0.258 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053206.D

Acq: 27 Dec 2018 12:23

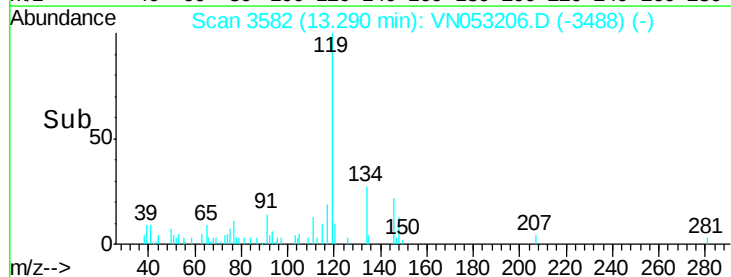
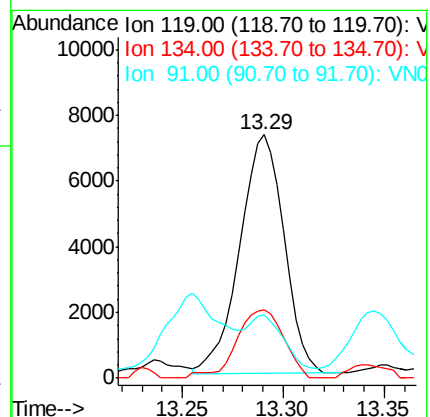
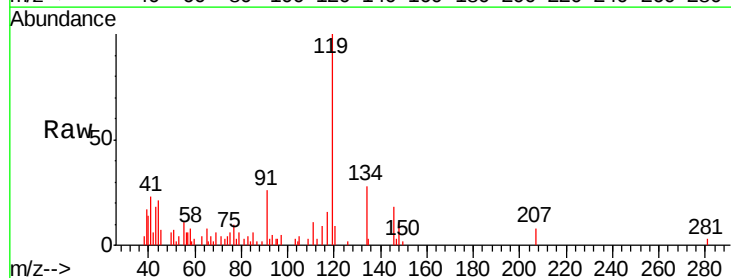
Tgt Ion:119 Resp: 11183

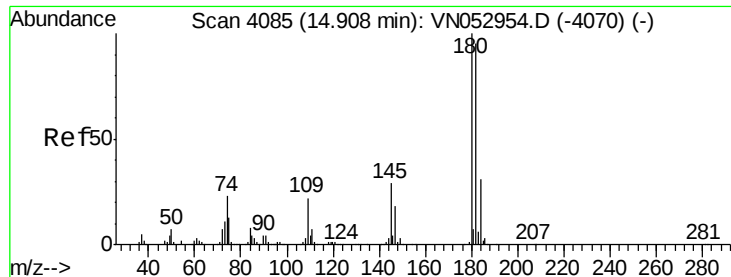
Ion Ratio Lower Upper

119 100

134 30.7 13.4 40.2

91 16.4 11.1 33.3

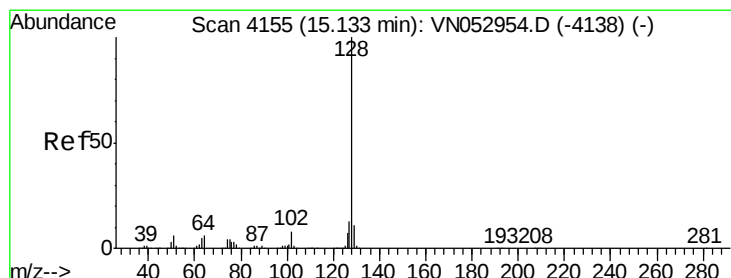
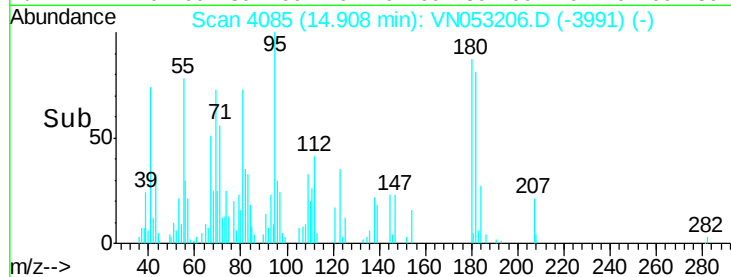
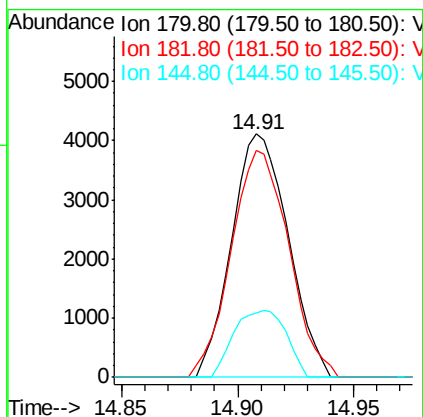
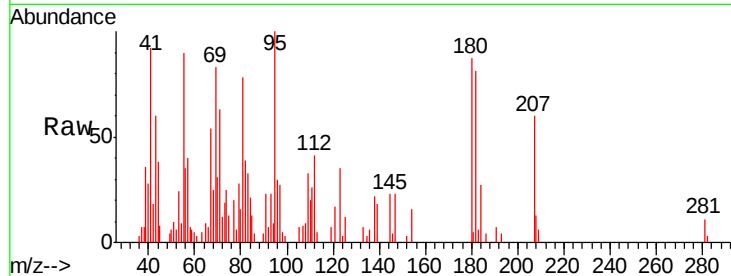




#93
 1,2,4-Trichlorobenzene
 Concen: 1.181 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053206.D
 Acq: 27 Dec 2018 12:23

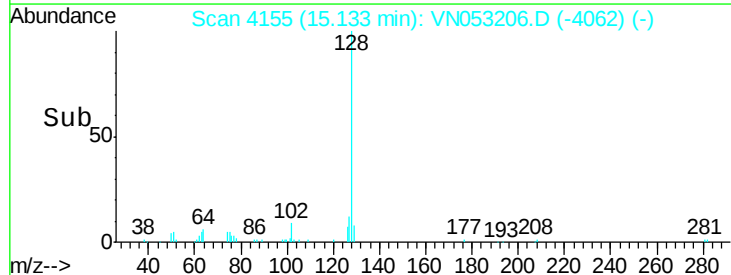
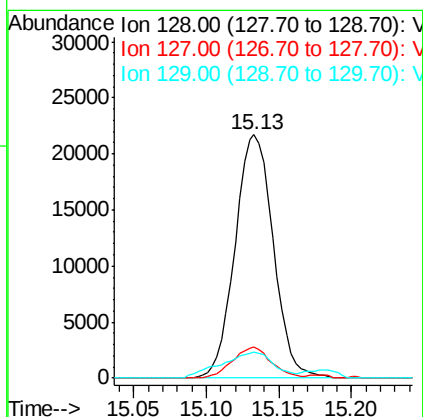
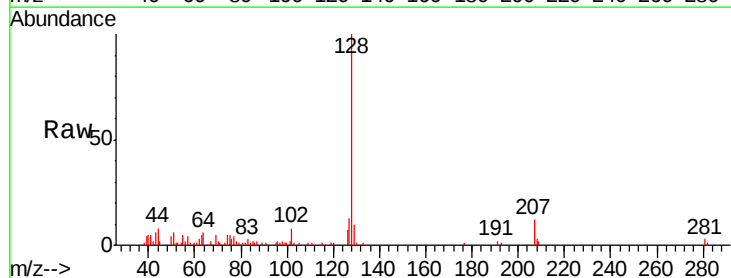
Instrument :
 MSVOA_N
 ClientSampleId :
 50082-50083

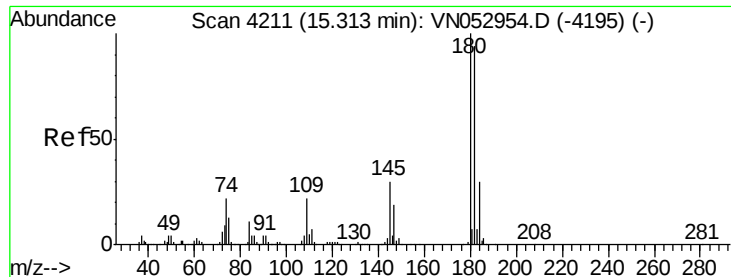
Tgt Ion:180 Resp: 6985
 Ion Ratio Lower Upper
 180 100
 182 94.5 47.8 143.3
 145 25.5 14.2 42.6



#95
 Naphthalene
 Concen: 2.652 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN053206.D
 Acq: 27 Dec 2018 12:23

Tgt Ion:128 Resp: 39817
 Ion Ratio Lower Upper
 128 100
 127 12.9 10.2 15.4
 129 14.6 8.6 13.0#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.228 ug/l
 RT: 15.31 min Scan# 4211
 Delta R.T. -0.00 min
 Lab File: VN053206.D
 Acq: 27 Dec 2018 12:23

Instrument :
 MSVOA_N
 ClientSampleId :
 50082-50083

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.0	47.9	143.7
145	31.1	15.0	45.0

