

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN032119\
 Data File : VN054516.D
 Acq On : 21 Mar 2019 17:32
 Operator : JC/SP
 Sample : K1965-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 BPS1-TT-MW312I-20190315

Quant Time: Mar 22 10:16:11 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 22 02:09:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	425170	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	771985	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	800038	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	300497	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	284621	53.82	ug/l	0.00
Spiked Amount			Recovery	=	107.64%	
35) Dibromofluoromethane	7.59	113	240183	48.29	ug/l	0.00
Spiked Amount			Recovery	=	96.58%	
50) Toluene-d8	10.09	98	999856	53.48	ug/l	0.00
Spiked Amount			Recovery	=	106.96%	
62) 4-Bromofluorobenzene	12.40	95	382981	60.19	ug/l	0.00
Spiked Amount			Recovery	=	120.38%	

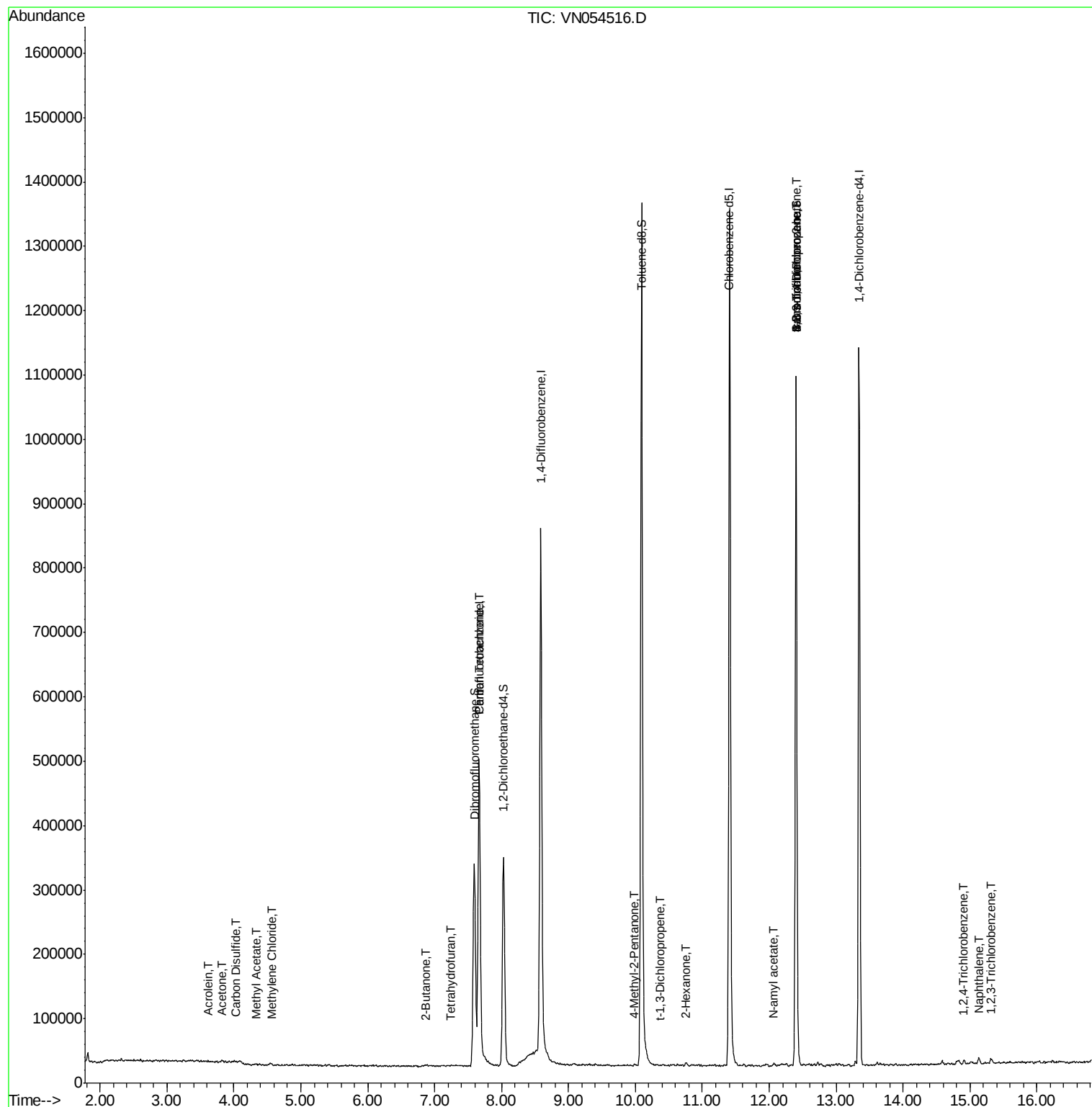
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
13) Acrolein	3.60	56	187	0.423	ug/l #	1
16) Acetone	3.82	43	5269	3.314	ug/l #	83
17) Carbon Disulfide	4.04	76	2928	0.266	ug/l #	91
18) Methyl Acetate	4.33	43	782	0.221	ug/l #	85
20) Methylene Chloride	4.55	84	1502	0.320	ug/l #	76
25) 2-Butanone	6.87	43	767	0.377	ug/l #	46
29) Tetrahydrofuran	7.23	42	278	0.210	ug/l #	30
31) Cyclohexane	7.66	56	8407	Below Cal	#	31
38) Carbon Tetrachloride	7.67	117	38346	5.467	ug/l #	17
51) 4-Methyl-2-Pentanone	9.99	43	2038	0.424	ug/l	93
53) t-1,3-Dichloropropene	10.38	75	138	2.250	ug/l #	1
59) 2-Hexanone	10.76	43	3471	1.106	ug/l	96
71) Bromoform	12.39	173	1027	2.464	ug/l #	28
74) N-amyl acetate	12.07	43	2029	0.291	ug/l #	67
76) 1,2,3-Trichloropropane	12.40	75	191622	40.186	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	191622	132.918	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	1826	0.380	ug/l	95
94) Hexachlorobutadiene	15.00	225	796	Below Cal		85
95) Naphthalene	15.13	128	6823	0.637	ug/l #	94
96) 1,2,3-Trichlorobenzene	15.31	180	2754	0.576	ug/l	81

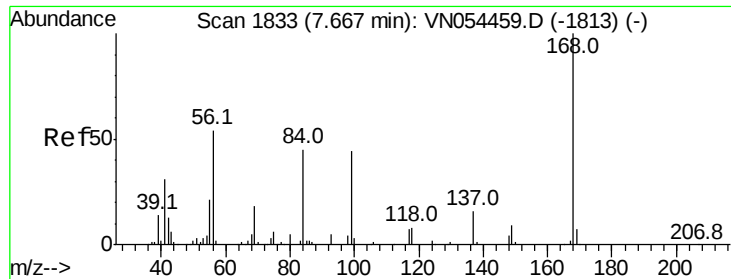
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN032119\
Data File : VN054516.D
Acq On : 21 Mar 2019 17:32
Operator : JC/SP
Sample : K1965-05
Misc : 5.00mL/MSVOA N/WATER
ALS Vial : 13 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
BPS1-TT-MW312I-20190315

Quant Time: Mar 22 10:16:11 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N032019W.M
Quant Title : SW846 8260
QLast Update : Fri Mar 22 02:09:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN054516.D

Acq: 21 Mar 2019 17:32

Instrument :

MSVOA_N

ClientSampleId :

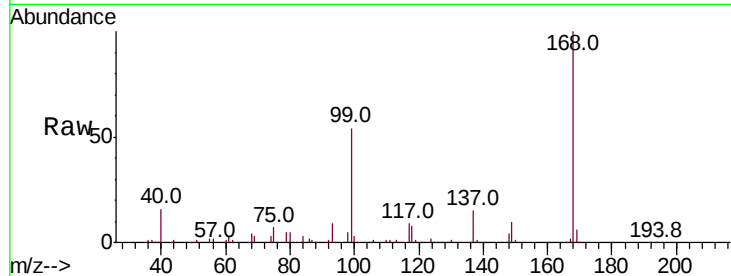
BPS1-TT-MW312I-20190315

Tot Ion:168 Resp: 425170

Ion Ratio Lower Upper

168 100

99 53.6 37.1 55.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

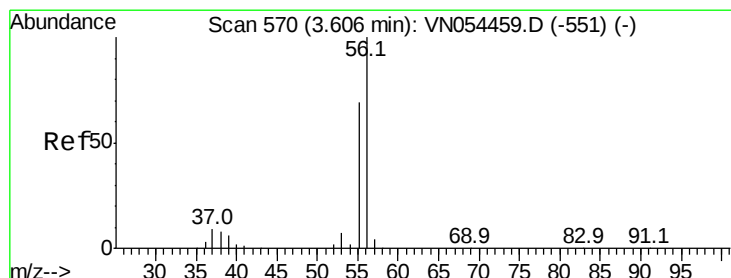
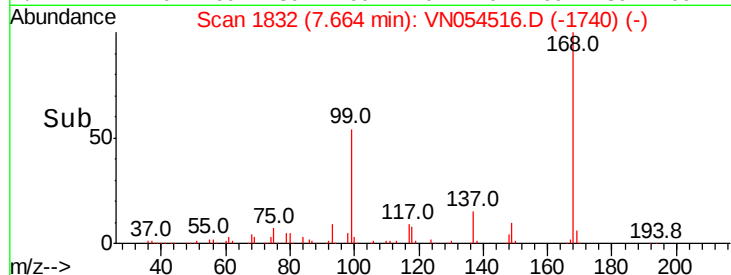
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: 0.423 ug/l

RT: 3.60 min Scan# 568

Delta R.T. -0.01 min

Lab File: VN054516.D

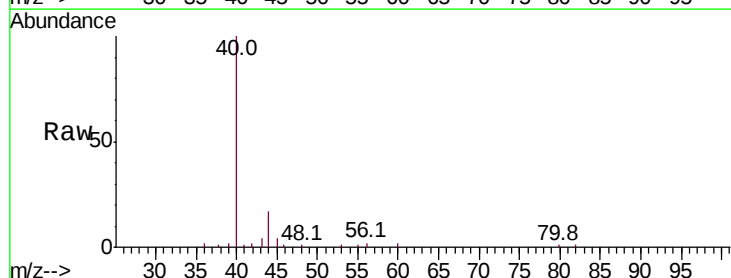
Acq: 21 Mar 2019 17:32

Tgt Ion: 56 Resp: 187

Ion Ratio Lower Upper

56 100

55 367.9 56.7 85.1#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.60

500

400

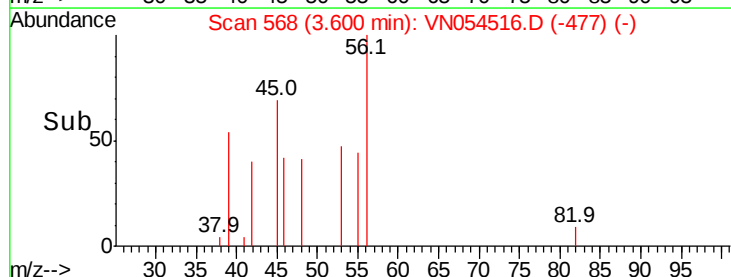
300

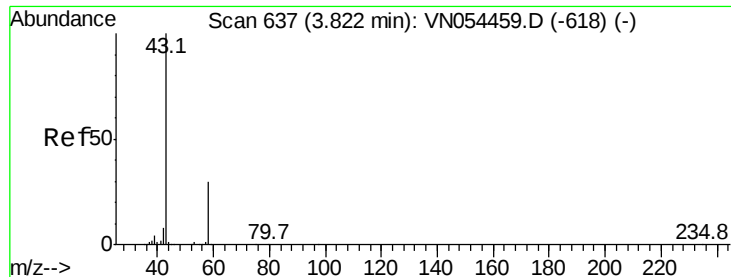
200

100

0

Time-->





#16

Acetone

Concen: 3.314 ug/l

RT: 3.82 min Scan# 636

Delta R.T. -0.00 min

Lab File: VN054516.D

Acq: 21 Mar 2019 17:32

Instrument :

MSVOA_N

ClientSampleId :

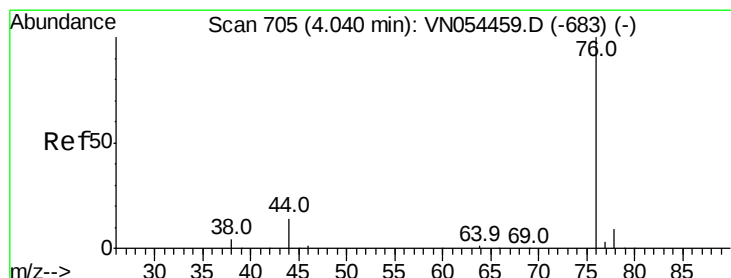
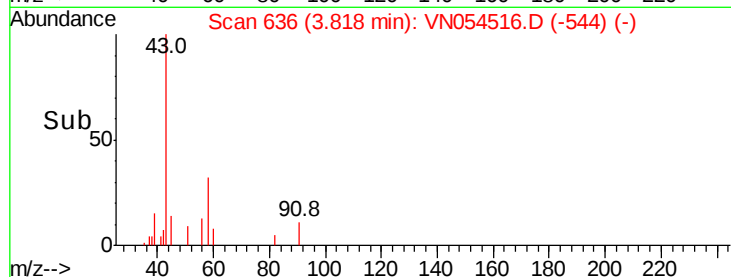
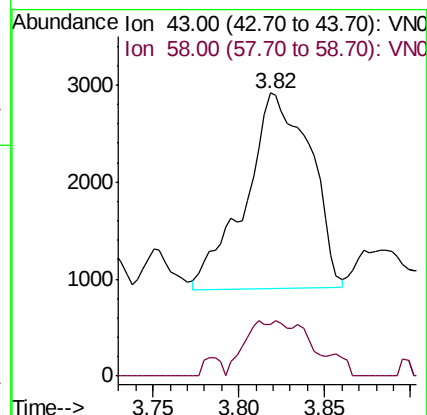
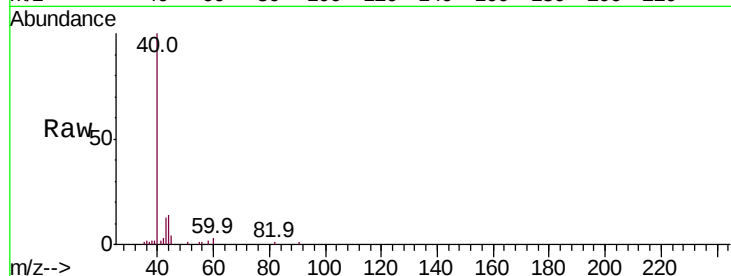
BPS1-TT-MW312I-20190315

Tot Ion: 43 Resp: 5269

Ion Ratio Lower Upper

43 100

58 27.2 29.9 44.9#



#17

Carbon Disulfide

Concen: 0.266 ug/l

RT: 4.04 min Scan# 704

Delta R.T. -0.00 min

Lab File: VN054516.D

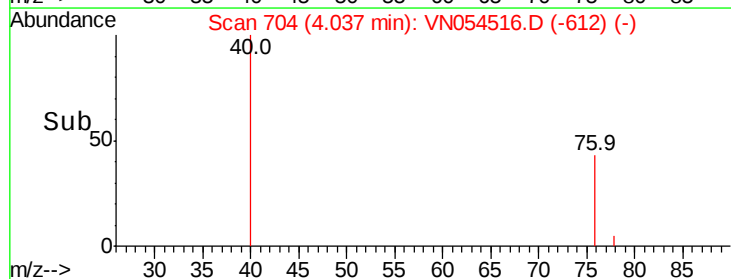
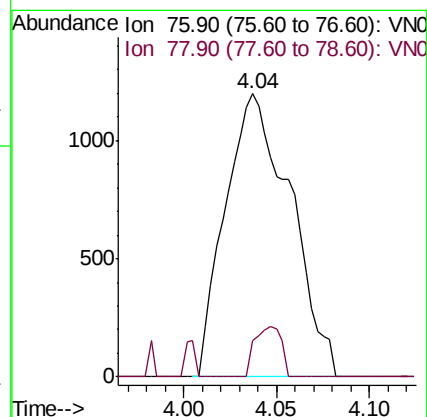
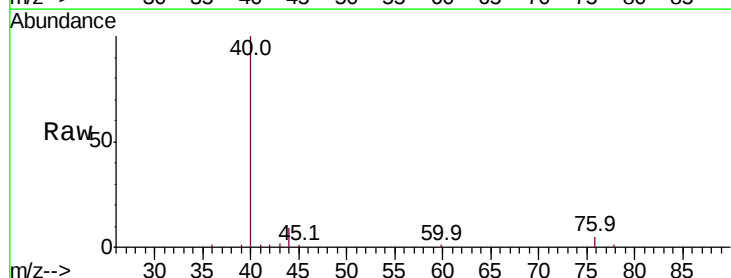
Acq: 21 Mar 2019 17:32

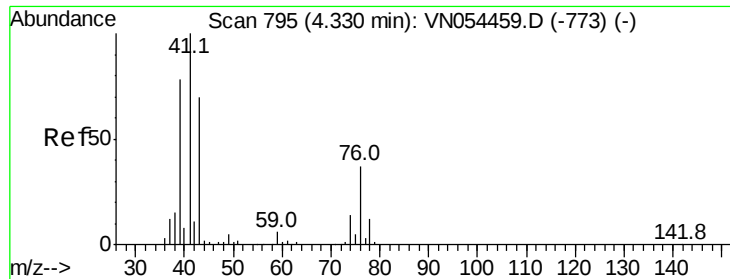
Tgt Ion: 76 Resp: 2928

Ion Ratio Lower Upper

76 100

78 12.7 7.5 11.3#

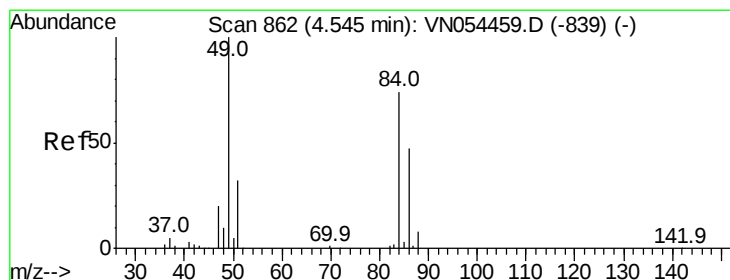
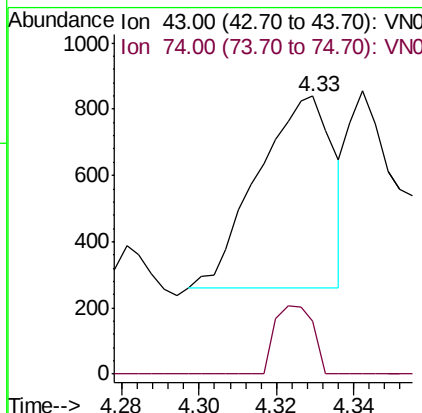
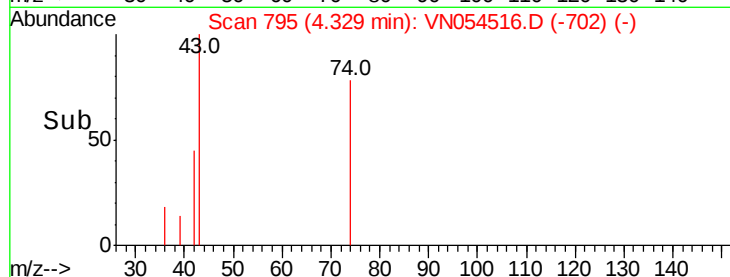
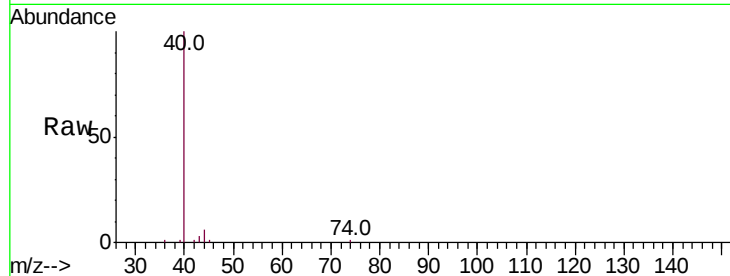




#18
Methvl Acetate
Concen: 0.221 ug/l
RT: 4.33 min Scan# 795
Delta R.T. -0.00 min
Lab File: VN054516.D
Acq: 21 Mar 2019 17:32

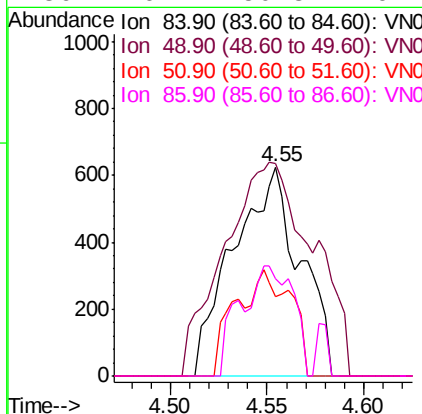
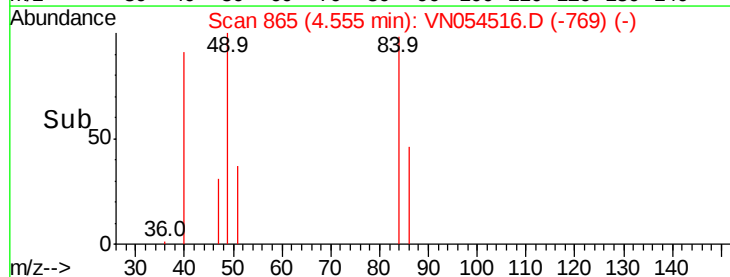
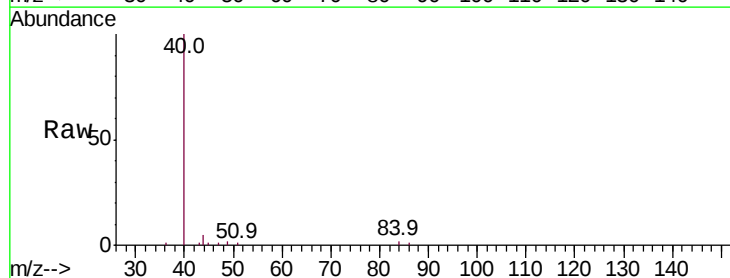
Instrument :
MSVOA_N
ClientSampleId :
BPS1-TT-MW312I-20190315

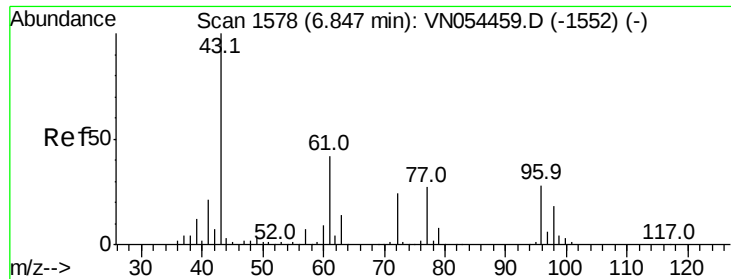
Tot Ion: 43 Resp: 782
Ion Ratio Lower Upper
43 100
74 18.2 20.8 31.2#



#20
Methylene Chloride
Concen: 0.320 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.01 min
Lab File: VN054516.D
Acq: 21 Mar 2019 17:32

Tgt Ion: 84 Resp: 1502
Ion Ratio Lower Upper
84 100
49 77.6 89.7 134.5#
51 37.9 28.2 42.4
86 46.7 50.8 76.2#





#25

2-Butanone

Concen: 0.377 ug/l

RT: 6.87 min Scan# 1585

Delta R.T. 0.02 min

Lab File: VN054516.D

Acq: 21 Mar 2019 17:32

Instrument :

MSVOA_N

ClientSampleId :

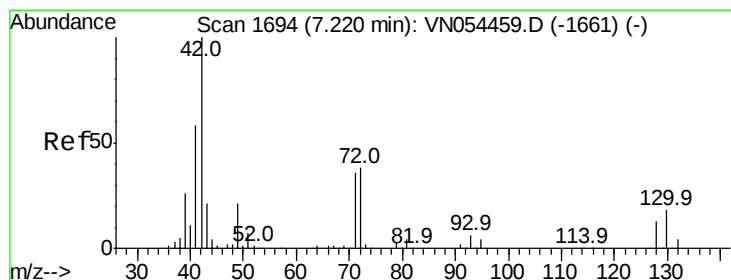
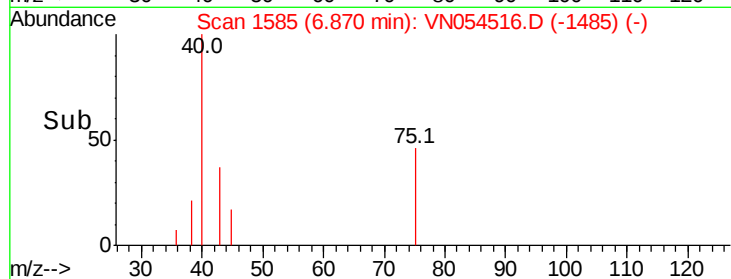
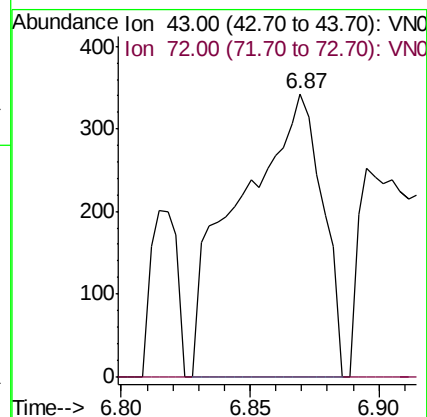
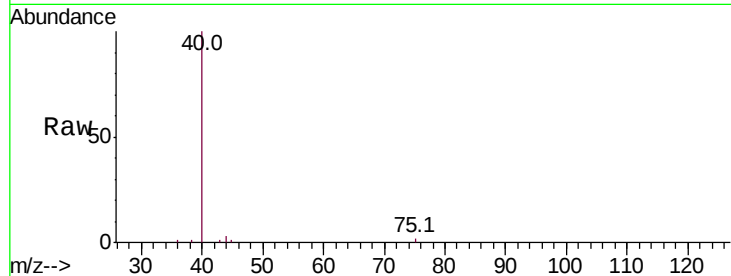
BPS1-TT-MW312I-20190315

Tot Ion: 43 Resp: 767

Ion Ratio Lower Upper

43 100

72 0.0 23.0 34.6#



#29

Tetrahydrofuran

Concen: 0.210 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.01 min

Lab File: VN054516.D

Acq: 21 Mar 2019 17:32

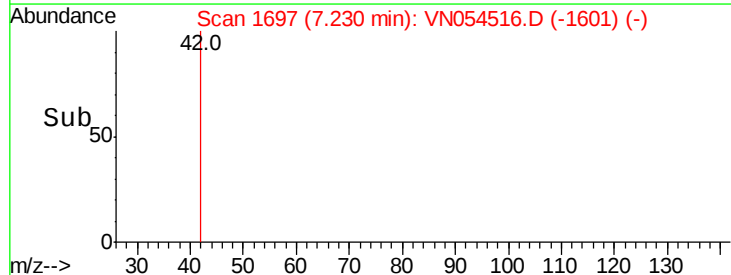
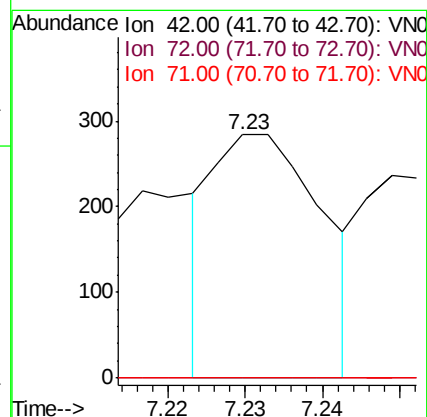
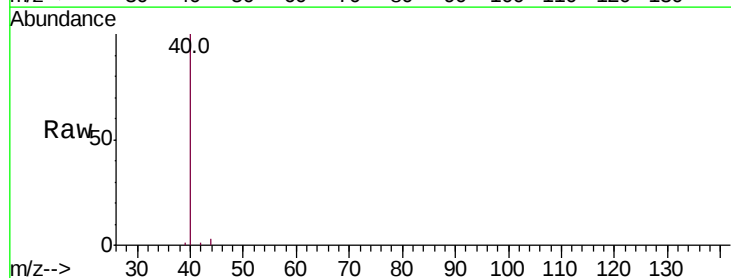
Tgt Ion: 42 Resp: 278

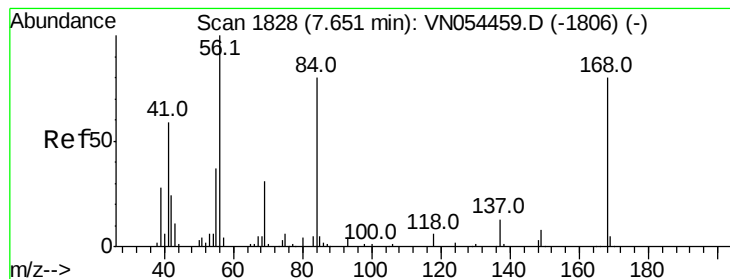
Ion Ratio Lower Upper

42 100

72 0.0 37.8 56.6#

71 0.0 36.2 54.2#





#31

Cyclohexane

Concen: Below Cal

RT: 7.66 min Scan# 1831

Delta R.T. 0.01 min

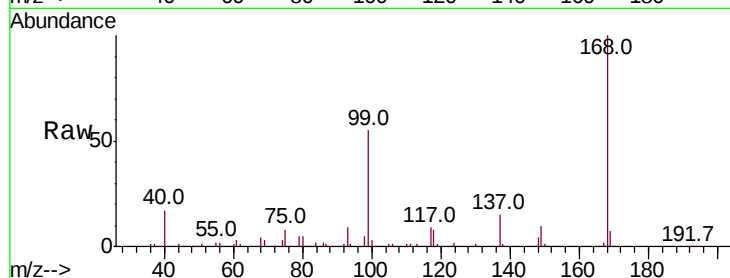
Lab File: VN054516.D

Acq: 21 Mar 2019 17:32

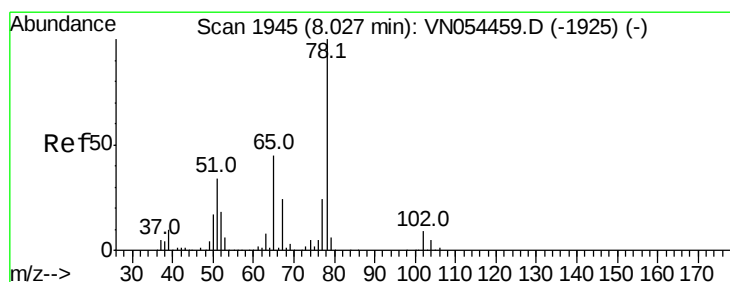
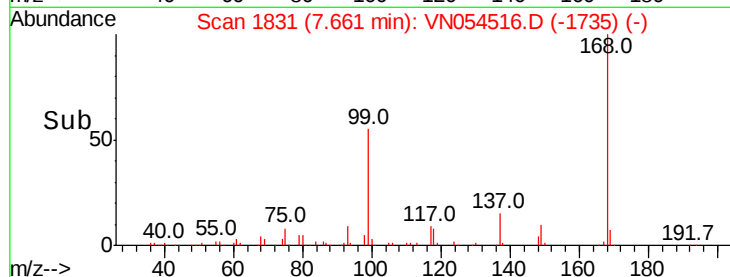
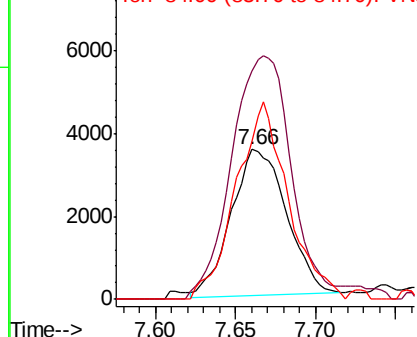
Instrument :
MSVOA_N
ClientSampleId :
BPS1-TT-MW312I-20190315

Tot Ion: 56 Resp: 8407

Ion	Ratio	Lower	Upper
56	100		
69	154.2	27.8	41.6#
84	110.6	74.6	111.8



Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0



#33

1,2-Dichloroethane-d4

Concen: 53.820 ug/l

RT: 8.03 min Scan# 1946

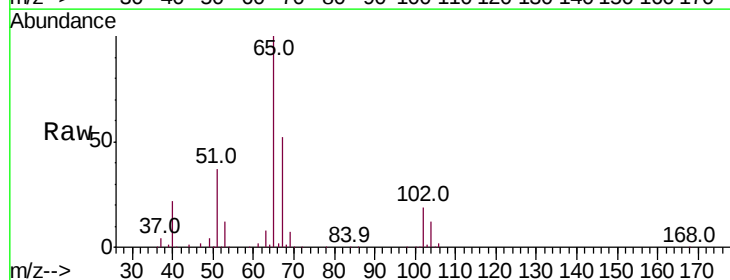
Delta R.T. 0.00 min

Lab File: VN054516.D

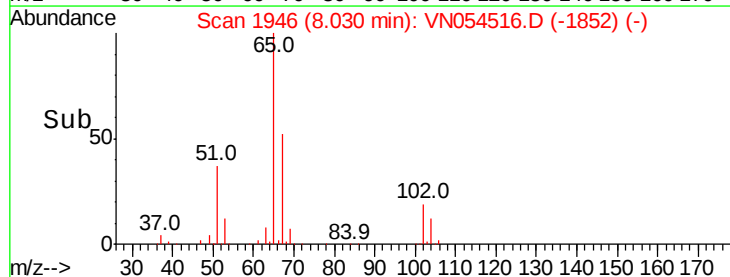
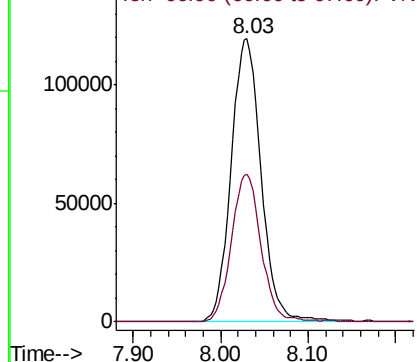
Acq: 21 Mar 2019 17:32

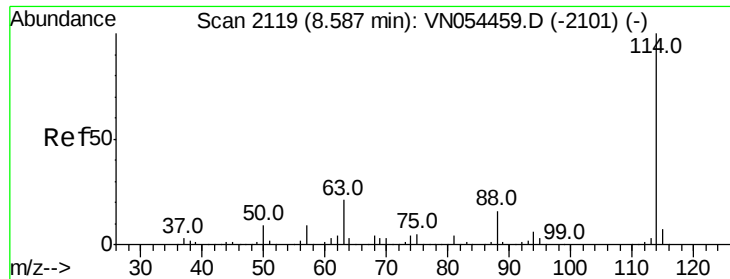
Tgt Ion: 65 Resp: 284621

Ion	Ratio	Lower	Upper
65	100		
67	51.6	0.0	104.6



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

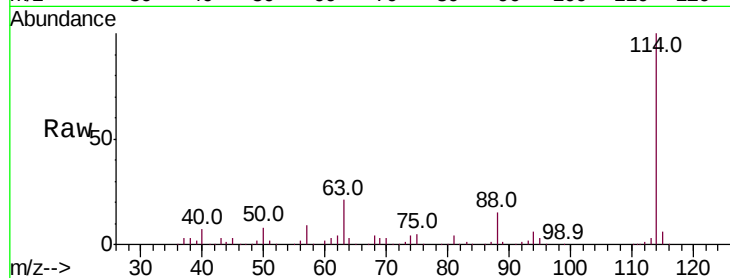




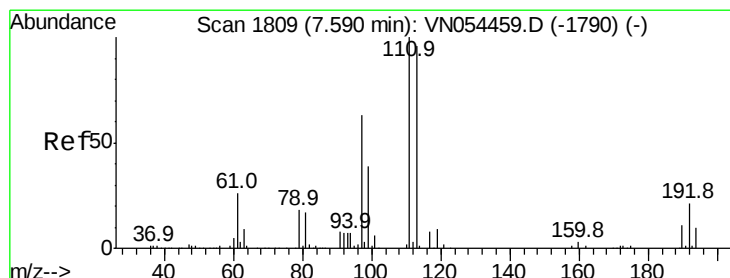
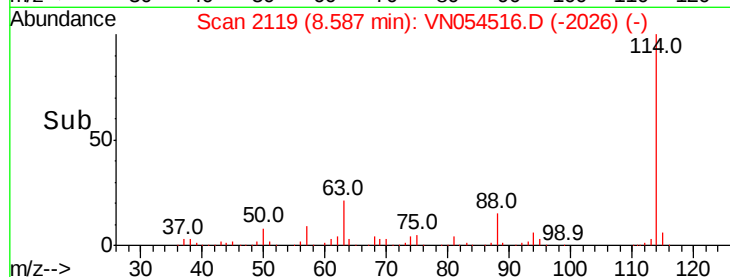
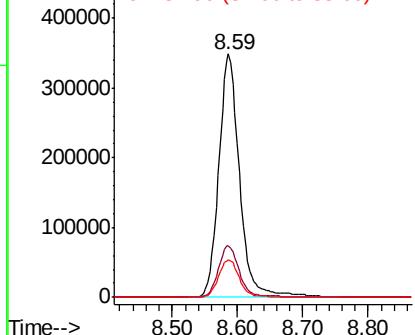
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN054516.D
 Acq: 21 Mar 2019 17:32

Instrument :
 MSVOA_N
 ClientSampleId :
 BPS1-TT-MW312I-20190315

Tot Ion:	114	Resp:	771985
Ion	Ratio	Lower	Upper
114	100		
63	21.0	0.0	35.2
88	15.2	0.0	30.2

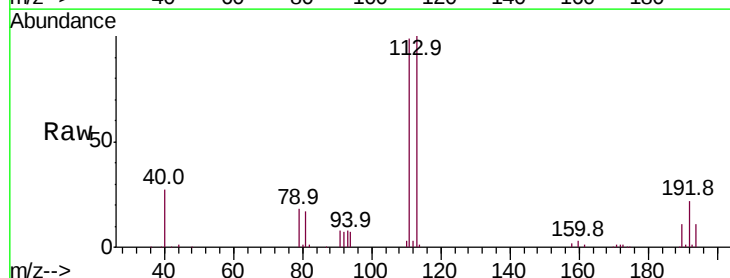


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

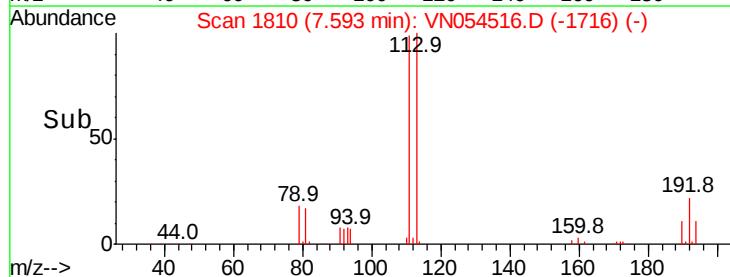
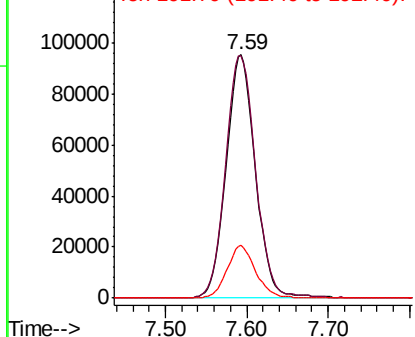


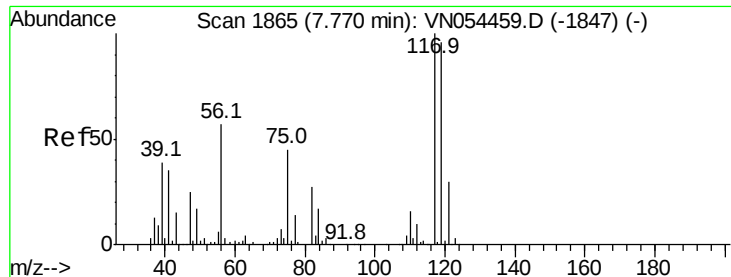
#35
 Dibromofluoromethane
 Concen: 48.293 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN054516.D
 Acq: 21 Mar 2019 17:32

Tgt Ion:	113	Resp:	240183
Ion	Ratio	Lower	Upper
113	100		
111	102.8	82.2	123.4
192	21.1	19.2	28.8



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#38

Carbon Tetrachloride

Concen: 5.467 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.10 min

Lab File: VN054516.D

Acq: 21 Mar 2019 17:32

Instrument :

MSVOA_N

ClientSampleId :

BPS1-TT-MW312I-20190315

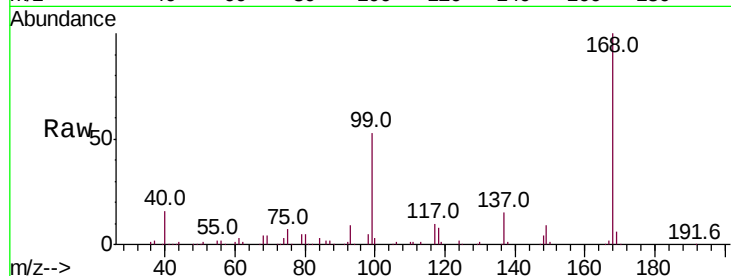
Tot Ion:117 Resp: 38346

Ion Ratio Lower Upper

117 100

119 5.8 76.3 114.5#

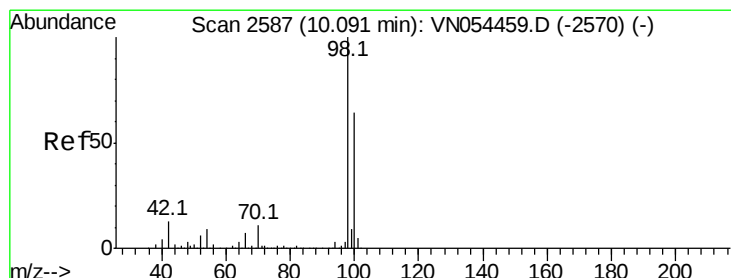
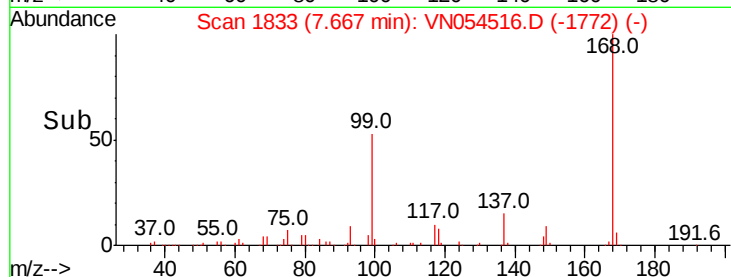
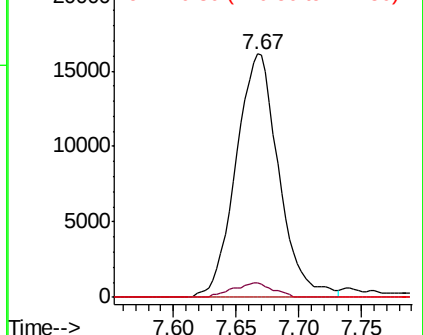
121 0.0 24.6 36.8#



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: 53.476 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN054516.D

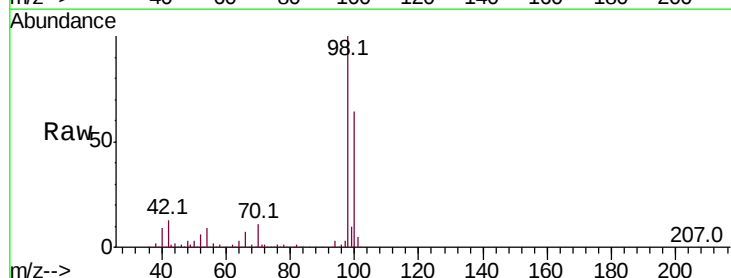
Acq: 21 Mar 2019 17:32

Tgt Ion: 98 Resp: 999856

Ion Ratio Lower Upper

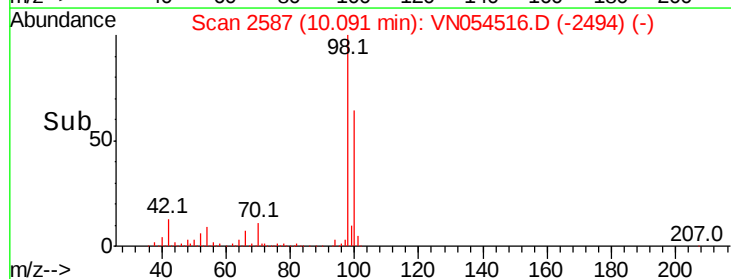
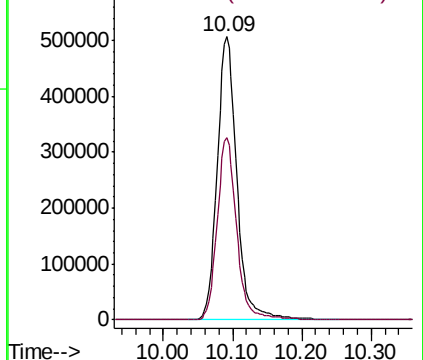
98 100

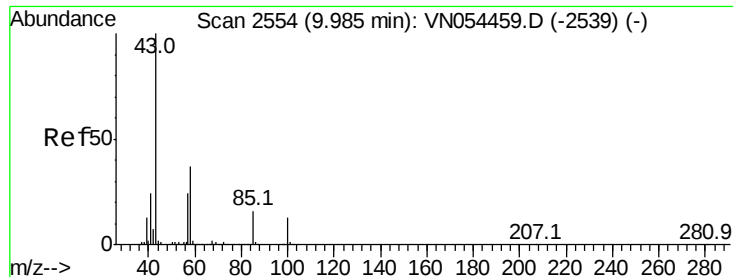
100 63.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN

Ion 100.00 (99.70 to 100.70): VN

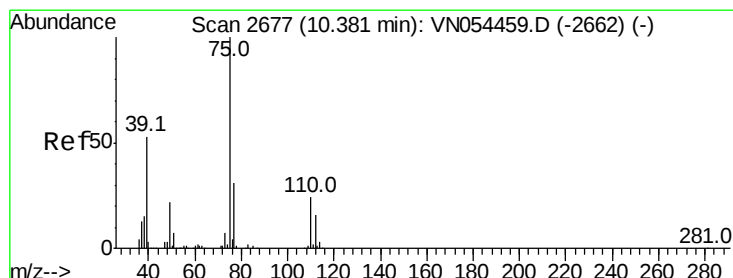
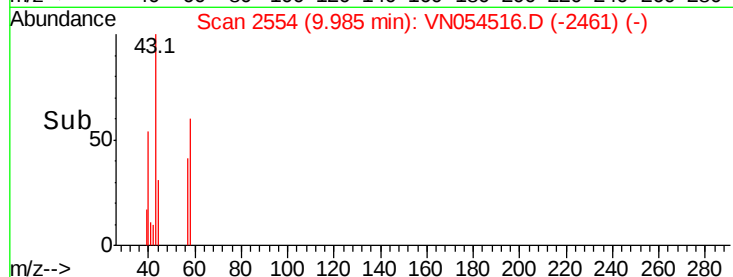
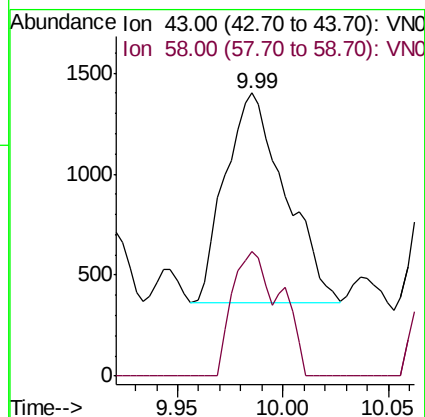
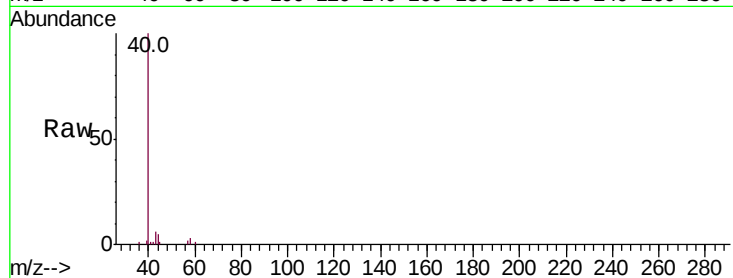




#51
 4-Methyl-2-Pentanone
 Concen: 0.424 ug/l
 RT: 9.99 min Scan# 2554
 Delta R.T. -0.00 min
 Lab File: VN054516.D
 Acq: 21 Mar 2019 17:32

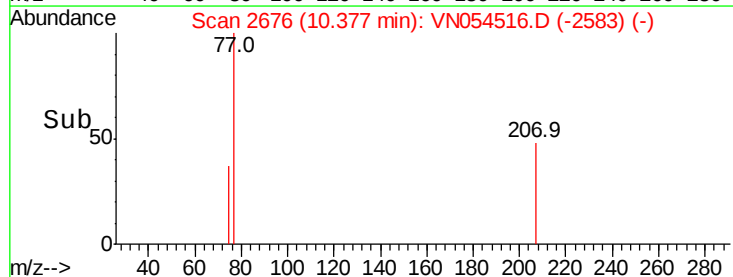
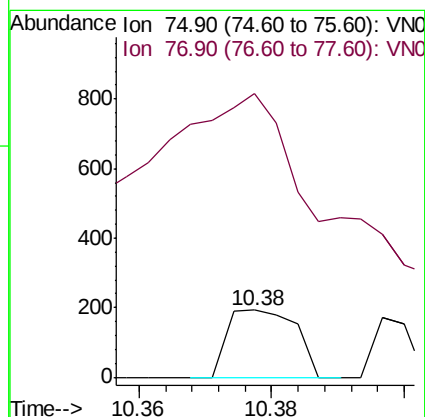
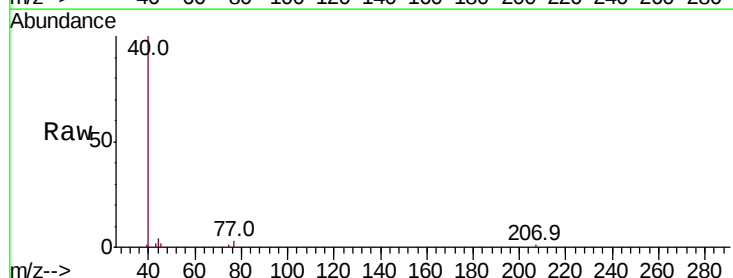
Instrument :
 MSVOA_N
 ClientSampleId :
 BPS1-TT-MW312I-20190315

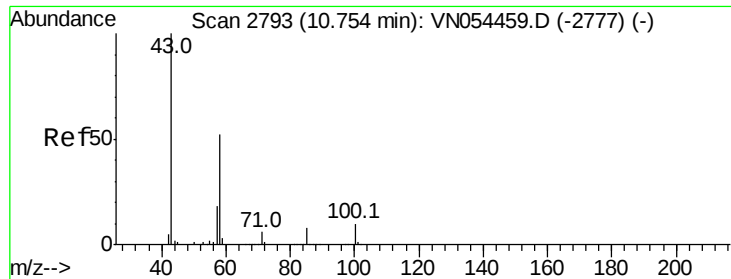
Tot Ion: 43 Resp: 2038
 Ion Ratio Lower Upper
 43 100
 58 35.3 31.8 47.6



#53
 t-1,3-Dichloropropene
 Concen: 2.250 ug/l
 RT: 10.38 min Scan# 2676
 Delta R.T. -0.00 min
 Lab File: VN054516.D
 Acq: 21 Mar 2019 17:32

Tgt Ion: 75 Resp: 138
 Ion Ratio Lower Upper
 75 100
 77 185.9 25.8 38.8#

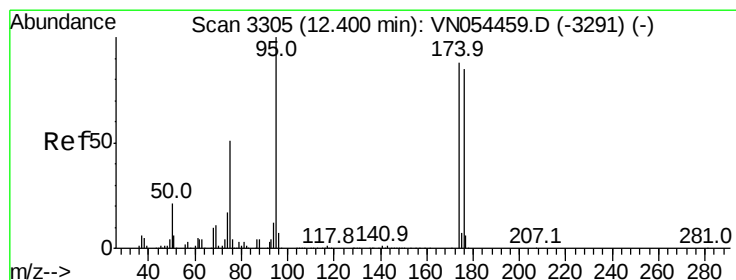
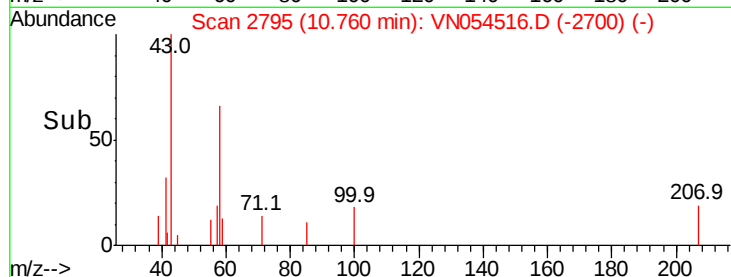
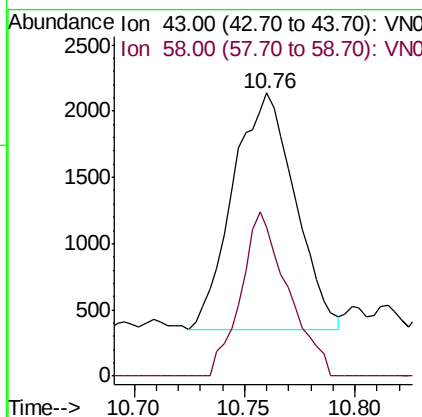
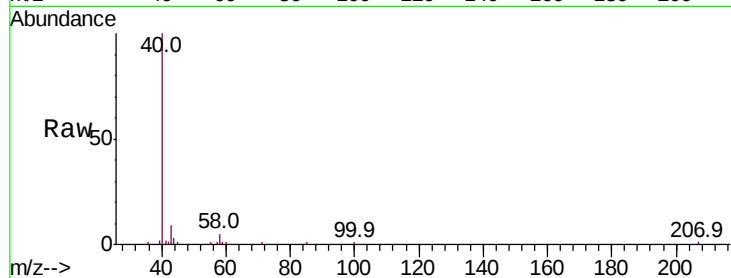




#59
2-Hexanone
Concen: 1.106 ug/l
RT: 10.76 min Scan# 2795
Delta R.T. 0.01 min
Lab File: VN054516.D
Acq: 21 Mar 2019 17:32

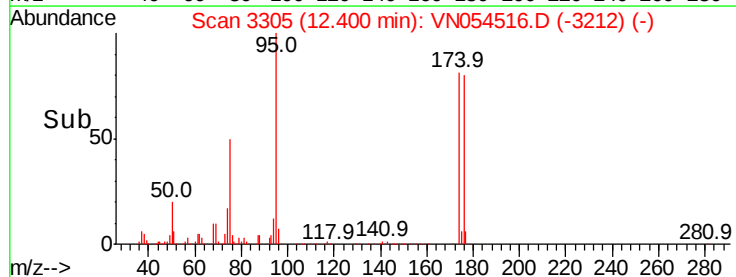
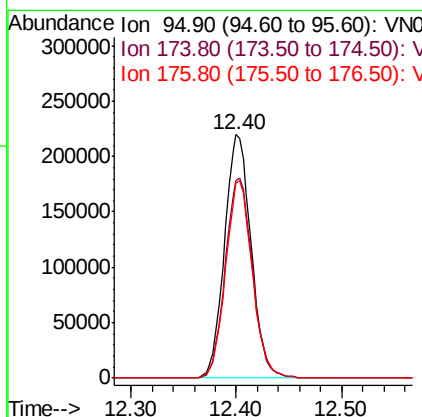
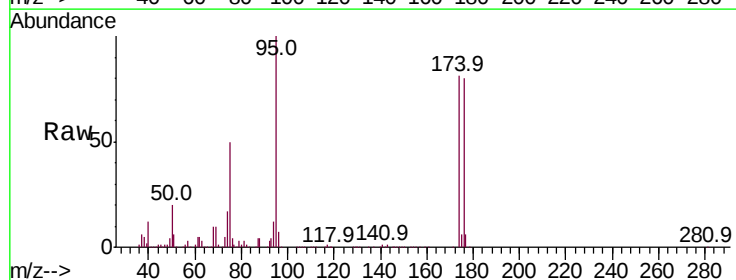
Instrument :
MSVOA_N
ClientSampleId :
BPS1-TT-MW312I-20190315

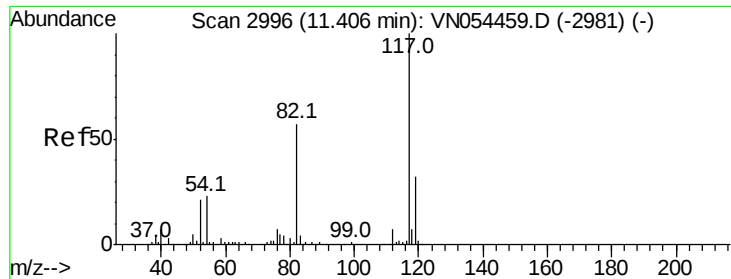
Tot Ion: 43 Resp: 3471
Ion Ratio Lower Upper
43 100
58 52.9 28.0 83.9



#62
4-Bromofluorobenzene
Concen: 60.195 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN054516.D
Acq: 21 Mar 2019 17:32

Tgt Ion: 95 Resp: 382981
Ion Ratio Lower Upper
95 100
174 83.7 0.0 191.0
176 80.9 0.0 187.4

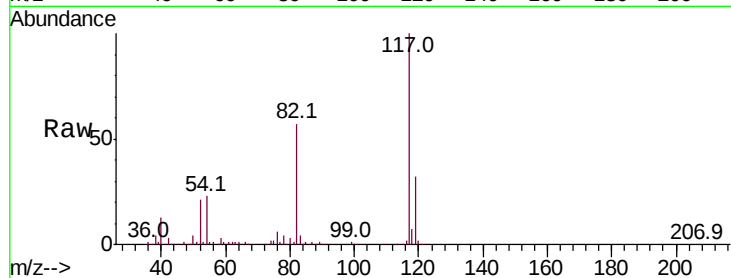




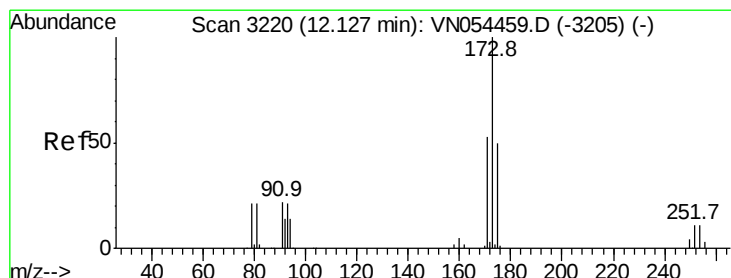
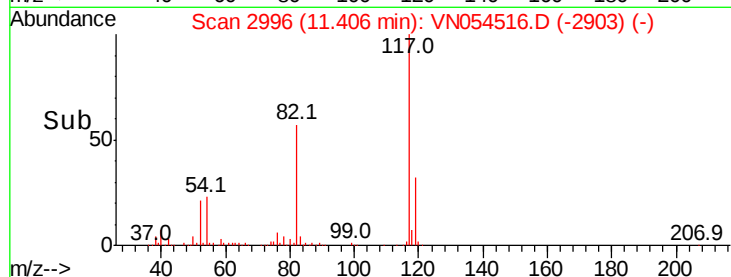
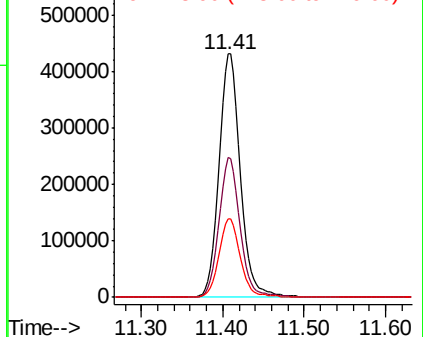
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN054516.D
Acq: 21 Mar 2019 17:32

Instrument :
MSVOA_N
ClientSampleId :
BPS1-TT-MW312I-20190315

Tot Ion:117 Resp: 800038
Ion Ratio Lower Upper
117 100
82 57.3 40.0 60.0
119 32.3 25.8 38.6

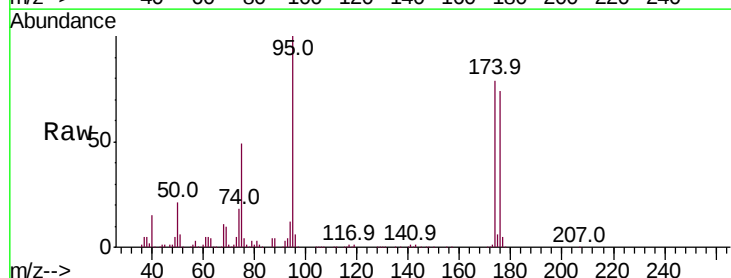


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

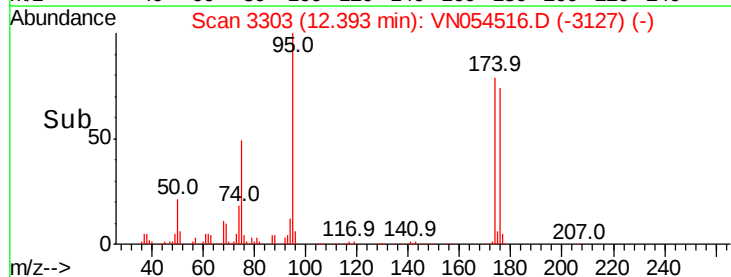
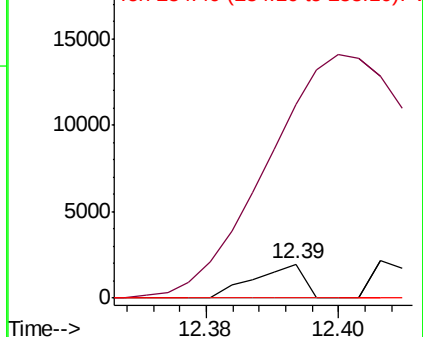


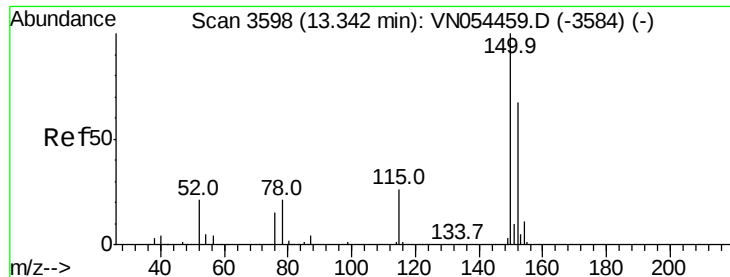
#71
Bromoform
Concen: 2.464 ug/l
RT: 12.39 min Scan# 3303
Delta R.T. 0.27 min
Lab File: VN054516.D
Acq: 21 Mar 2019 17:32

Tgt Ion:173 Resp: 1027
Ion Ratio Lower Upper
173 100
175 0.0 24.4 73.2#
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN054516.D

Acq: 21 Mar 2019 17:32

Instrument :

MSVOA_N

ClientSampleId :

BPS1-TT-MW312I-20190315

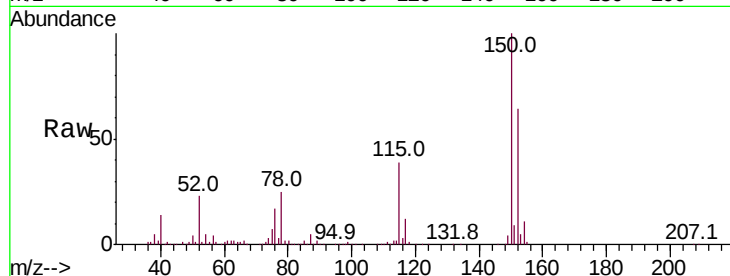
Tot Ion:152 Resp: 300497

Ion Ratio Lower Upper

152 100

115 58.9 27.2 81.6

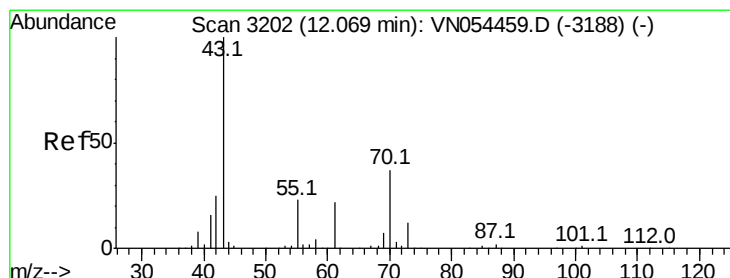
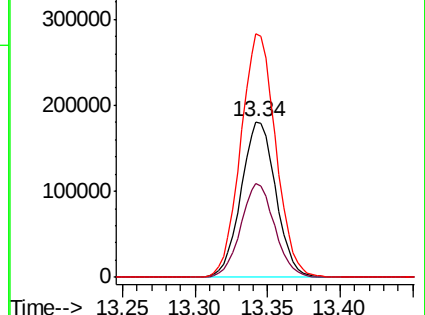
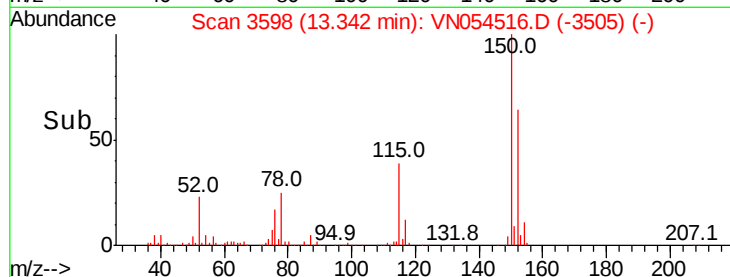
150 158.2 0.0 349.2



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: 0.291 ug/l

RT: 12.07 min Scan# 3203

Delta R.T. 0.00 min

Lab File: VN054516.D

Acq: 21 Mar 2019 17:32

Tgt Ion: 43 Resp: 2029

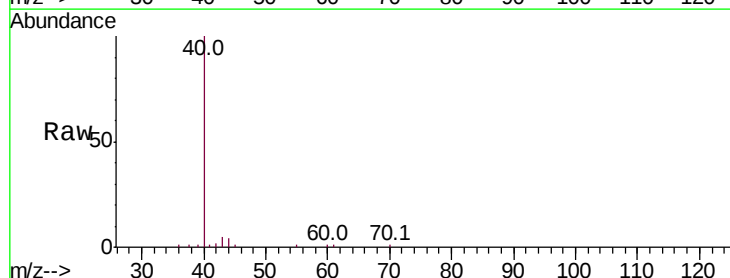
Ion Ratio Lower Upper

43 100

70 13.1 35.4 53.0#

55 27.0 19.8 29.6

61 7.6 19.8 29.6#

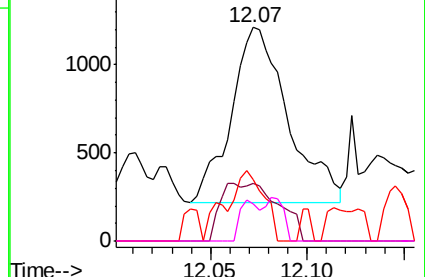
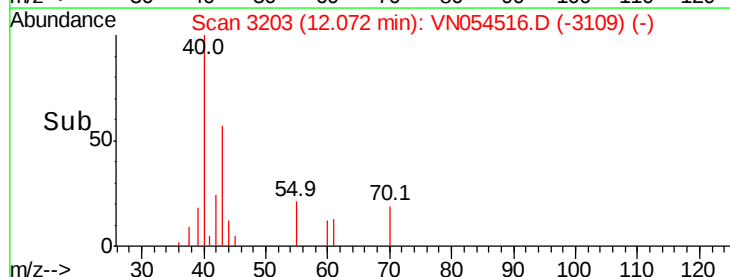


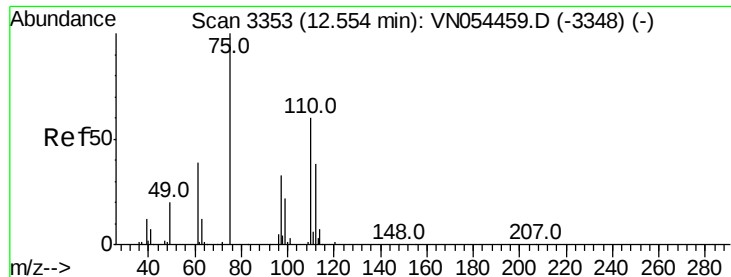
Abundance Ion 43.00 (42.70 to 43.70): V

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: 40.186 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN054516.D

Acq: 21 Mar 2019 17:32

Instrument :

MSVOA_N

ClientSampleId :

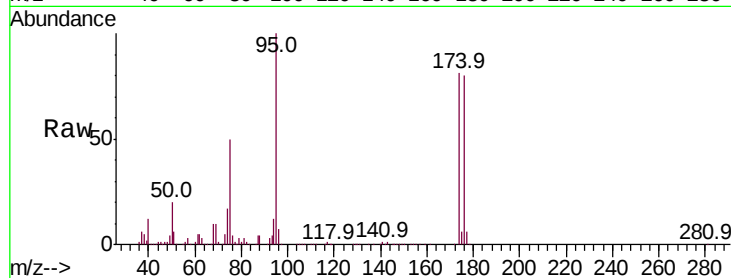
BPS1-TT-MW312I-20190315

Tot Ion: 75 Resp: 191622

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

120000

100000

80000

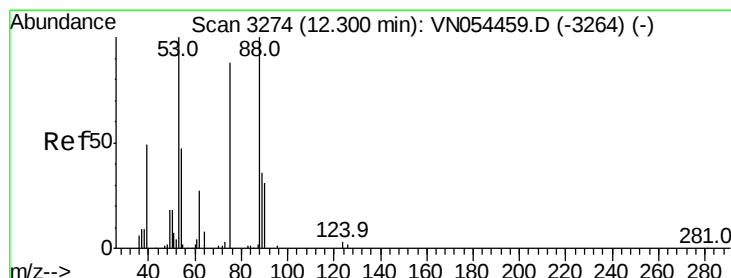
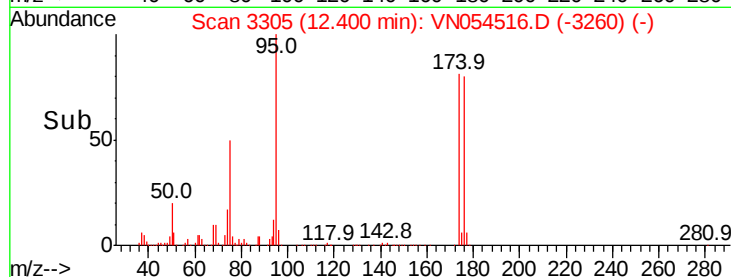
60000

40000

20000

0

Time--> 12.30 12.40 12.50



#81

trans-1,4-Dichloro-2-butene

Concen: 132.918 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN054516.D

Acq: 21 Mar 2019 17:32

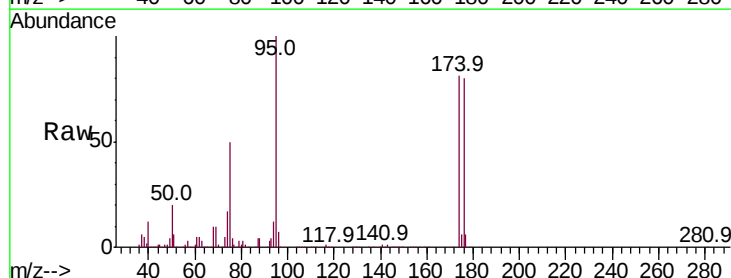
Tgt Ion: 75 Resp: 191622

Ion Ratio Lower Upper

75 100

53 0.0 76.2 114.2#

89 0.0 39.2 58.8#



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

12.40

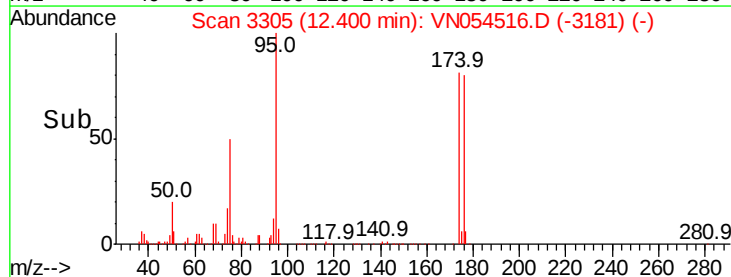
150000

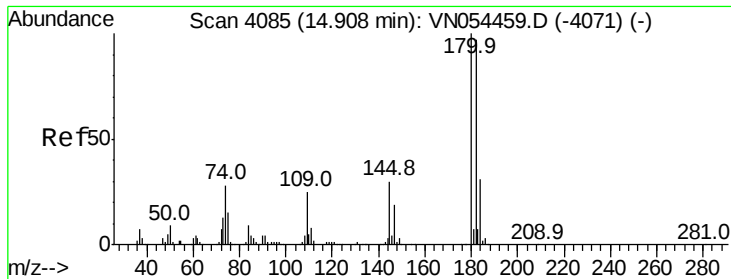
100000

50000

0

Time--> 12.30 12.40 12.50

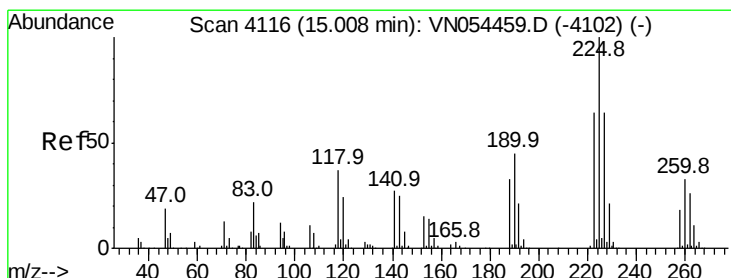
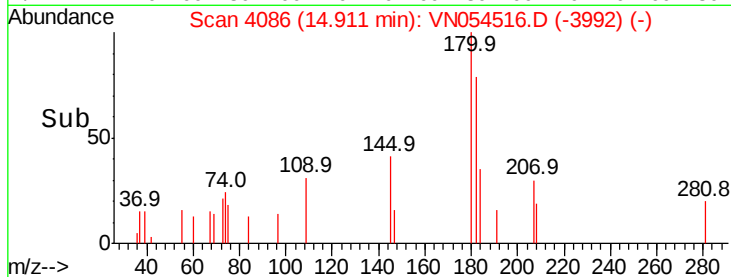
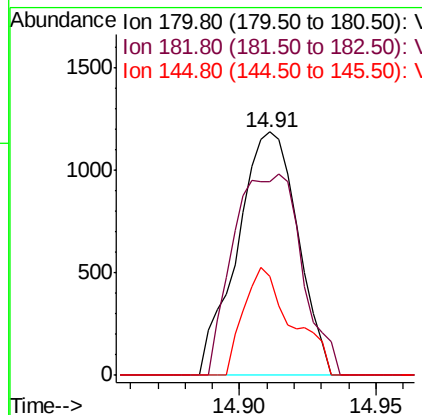
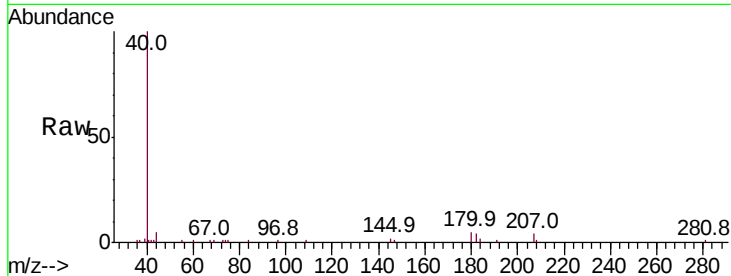




#93
 1,2,4-Trichlorobenzene
 Concen: 0.380 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN054516.D
 Acq: 21 Mar 2019 17:32

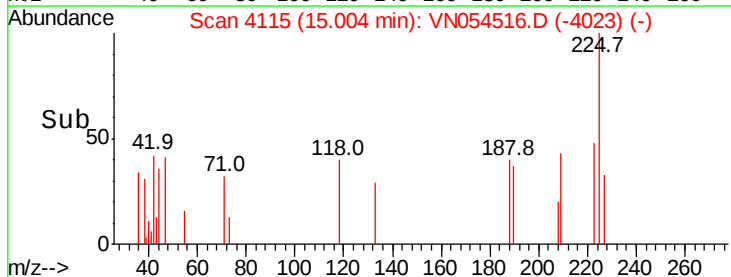
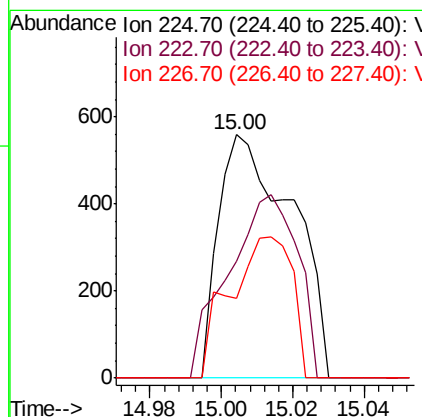
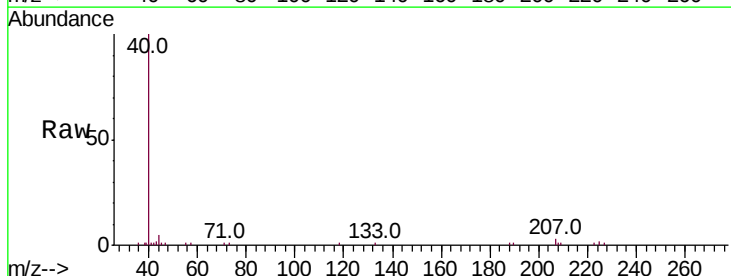
Instrument :
 MSVOA_N
 ClientSampleId :
 BPS1-TT-MW312I-20190315

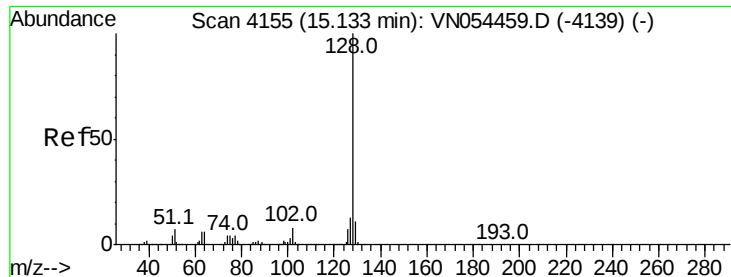
Tot Ion	Ratio	Lower	Upper
180	100		
182	94.1	48.0	144.2
145	35.8	14.2	42.8



#94
 Hexachlorobutadiene
 Concen: Below Cal
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.00 min
 Lab File: VN054516.D
 Acq: 21 Mar 2019 17:32

Tgt Ion	Ratio	Lower	Upper
225	100		
223	70.7	31.1	93.5
227	49.0	31.9	95.9





#95

Naphthalene

Concen: 0.637 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN054516.D

Acq: 21 Mar 2019 17:32

Instrument :

MSVOA_N

ClientSampleId :

BPS1-TT-MW312I-20190315

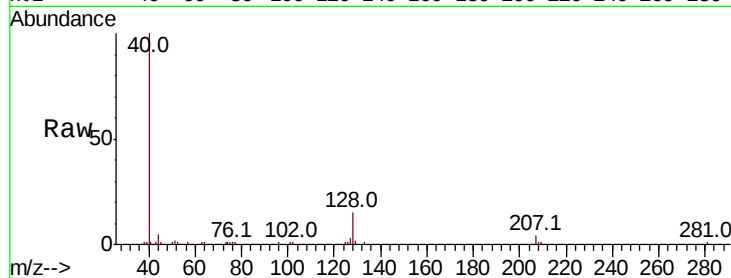
Tot Ion:128 Resp: 6823

Ion Ratio Lower Upper

128 100

127 17.0 10.1 15.1#

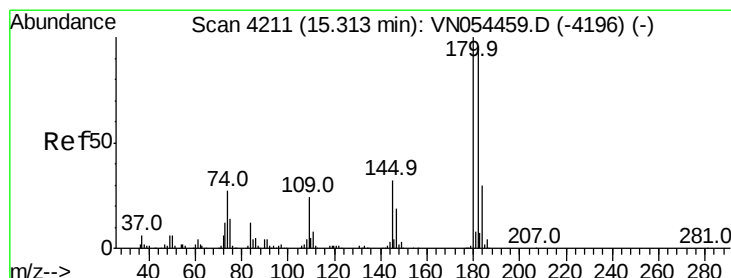
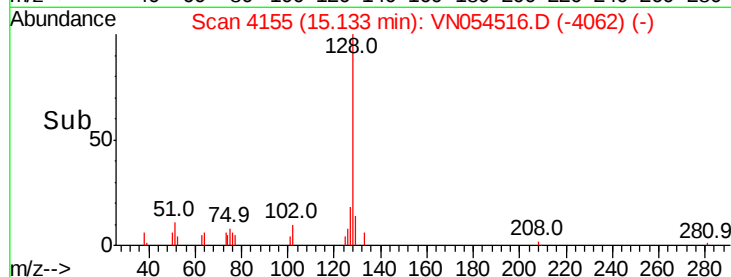
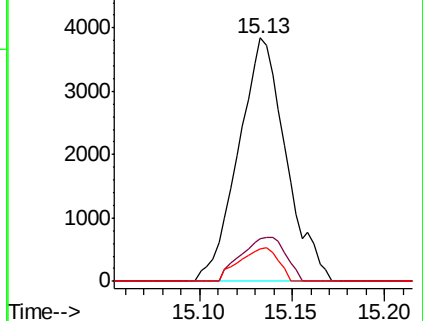
129 11.2 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96

1,2,3-Trichlorobenzene

Concen: 0.576 ug/l

RT: 15.31 min Scan# 4210

Delta R.T. -0.00 min

Lab File: VN054516.D

Acq: 21 Mar 2019 17:32

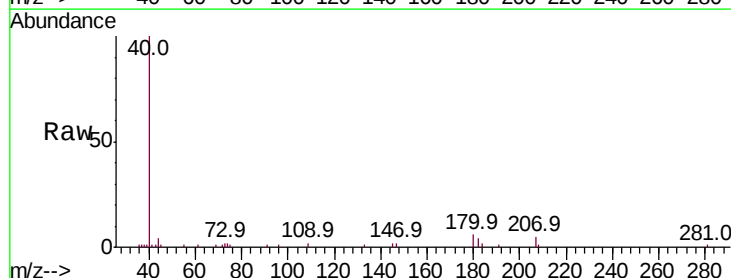
Tgt Ion:180 Resp: 2754

Ion Ratio Lower Upper

180 100

182 71.7 47.5 142.6

145 27.8 14.8 44.3



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

