

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092718\
 Data File : VN051549.D
 Acq On : 26 Sep 2018 21:12
 Operator : MD\SY
 Sample : PB113219ZHE#06
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113219ZHE#06

Quant Time: Sep 27 08:00:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N092318W.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 24 06:41:32 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	629875	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1026958	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	852300	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	301981	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	462197	58.58	ug/l	0.00
Spiked Amount			Recovery	=	117.16%	
35) Dibromofluoromethane	7.60	113	396982	48.34	ug/l	0.00
Spiked Amount			Recovery	=	96.68%	
50) Toluene-d8	10.09	98	1412609	45.68	ug/l	0.00
Spiked Amount			Recovery	=	91.36%	
62) 4-Bromofluorobenzene	12.40	95	384756	38.46	ug/l	0.00
Spiked Amount			Recovery	=	76.92%	

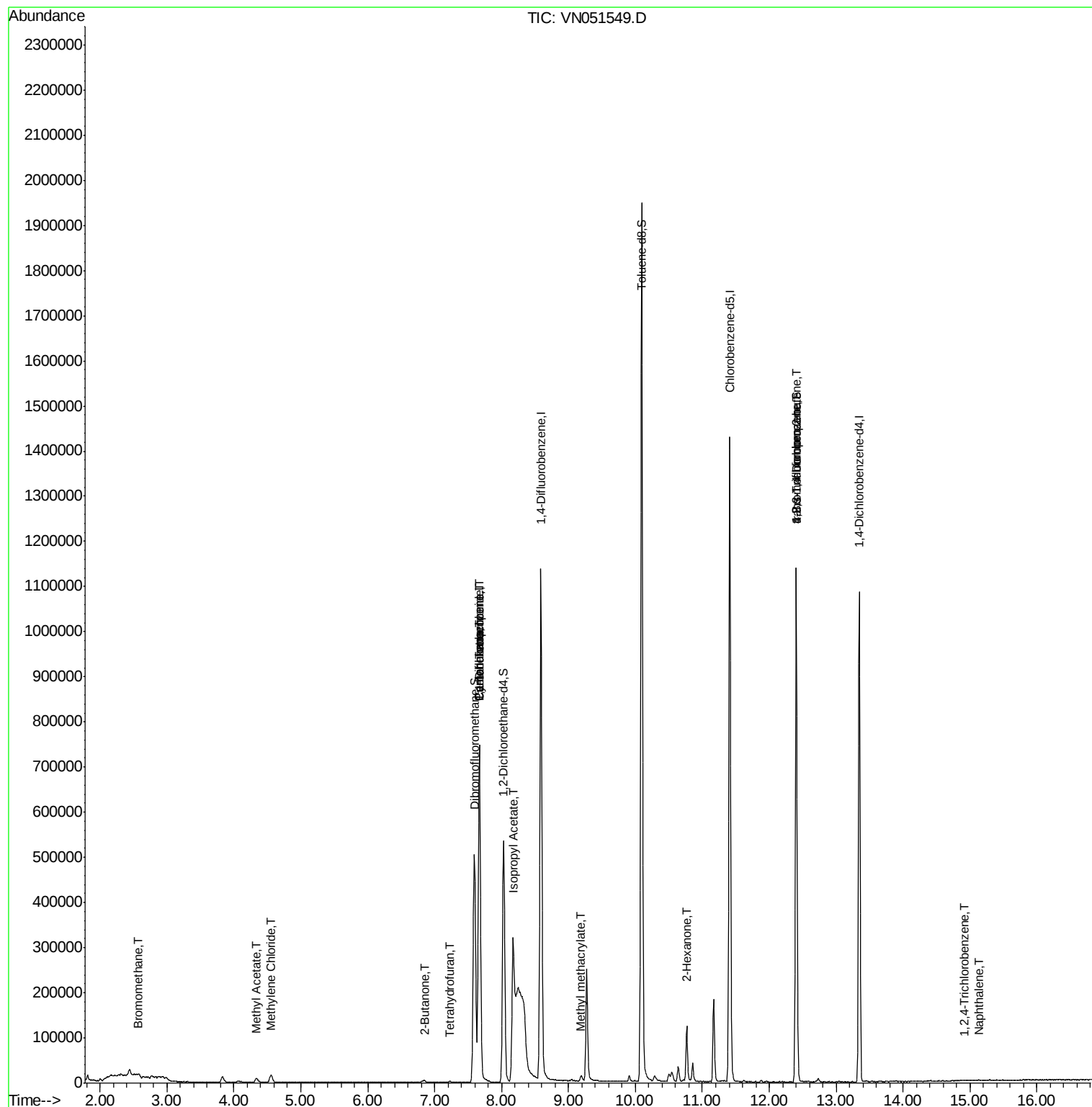
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.57	94	1577	0.314	ug/l #	71
16) Acetone	3.83	43	21266	Below Cal		97
18) Methyl Acetate	4.33	43	16206	2.697	ug/l	99
20) Methylene Chloride	4.55	84	11344	1.453	ug/l	93
25) 2-Butanone	6.85	43	4379	1.621	ug/l	93
29) Tetrahydrofuran	7.22	42	1980	1.157	ug/l #	43
31) Cyclohexane	7.67	56	12489	1.005	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	47060	3.957	ug/l #	48
38) Carbon Tetrachloride	7.67	117	58835	4.730	ug/l #	17
43) Isopropyl Acetate	8.17	43	427131	34.545	ug/l #	86
48) Methyl methacrylate	9.18	41	7886	1.279	ug/l #	18
59) 2-Hexanone	10.77	43	17833	4.045	ug/l #	57
76) 1,2,3-Trichloropropane	12.40	75	187271	37.356	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	187271	114.869	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.91	180	218	6.015	ug/l #	11
95) Naphthalene	15.13	128	471	8.079	ug/l #	69

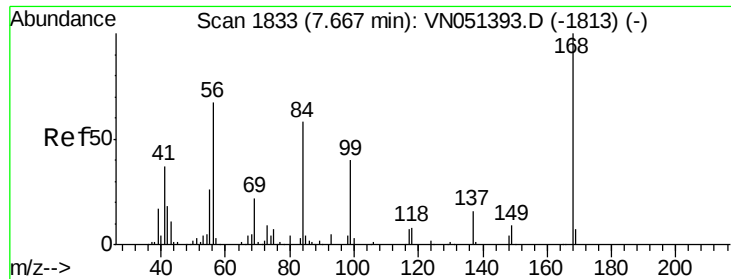
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.00 min

Lab File: VN051549.D

Acq: 26 Sep 2018 21:12

Instrument :

MSVOA_N

ClientSampleId :

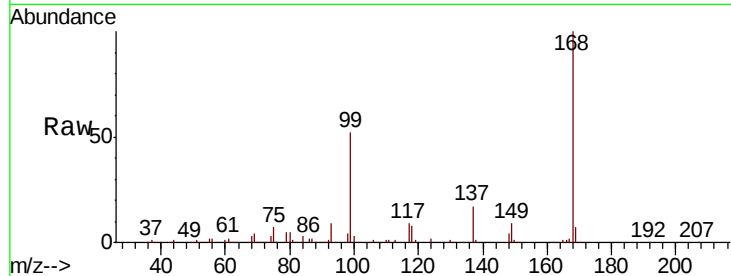
PB113219ZHE#06

Tot Ion:168 Resp: 629875

Ion Ratio Lower Upper

168 100

99 51.9 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): VN051393.D (-1813) (-)

Ion 98.90 (98.60 to 99.60): VN051393.D (-1813) (-)

7.67

250000

200000

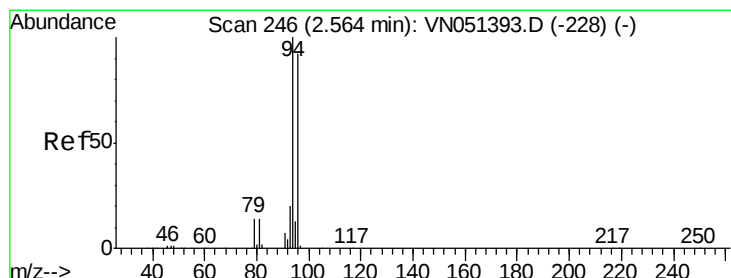
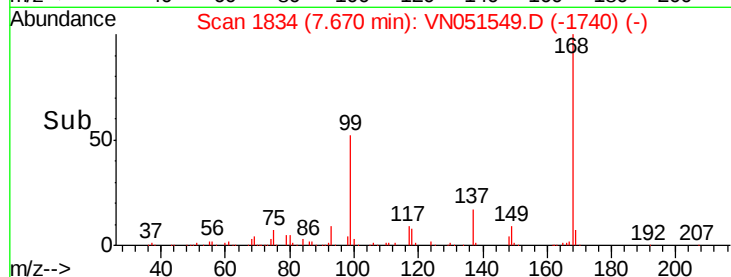
150000

100000

50000

0

Time-->



#5

Bromomethane

Concen: 0.314 ug/l

RT: 2.57 min Scan# 249

Delta R.T. 0.01 min

Lab File: VN051549.D

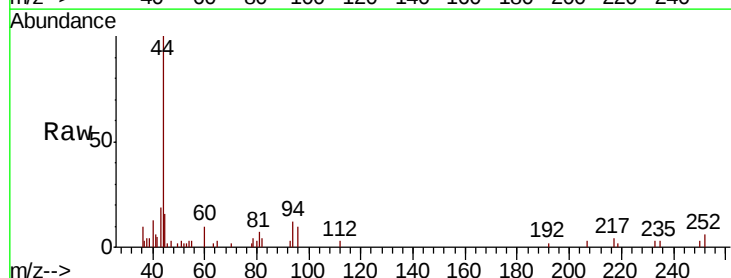
Acq: 26 Sep 2018 21:12

Tgt Ion: 94 Resp: 1577

Ion Ratio Lower Upper

94 100

96 64.1 73.6 110.4#



Abundance Ion 93.90 (93.60 to 94.60): VN051393.D (-228) (-)

Ion 95.90 (95.60 to 96.60): VN051393.D (-228) (-)

2.57

800

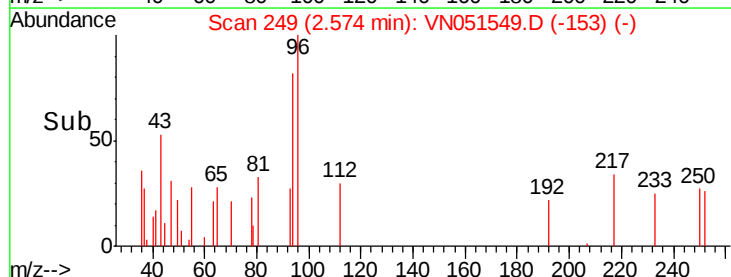
600

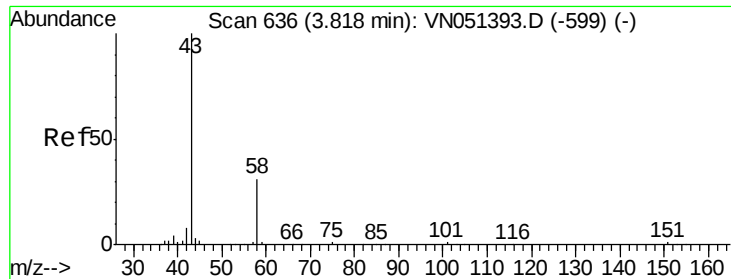
400

200

0

Time-->

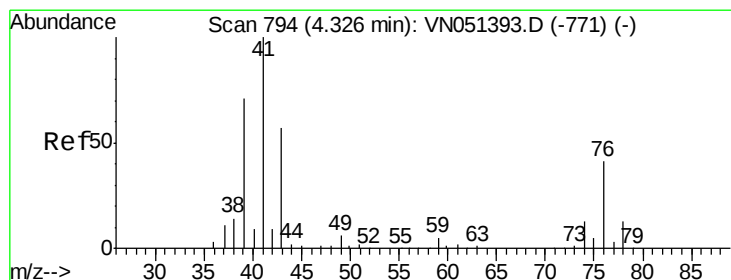
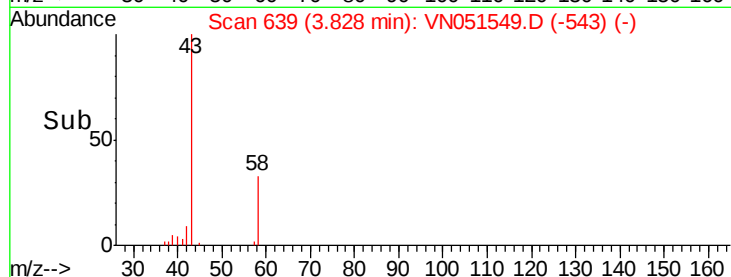
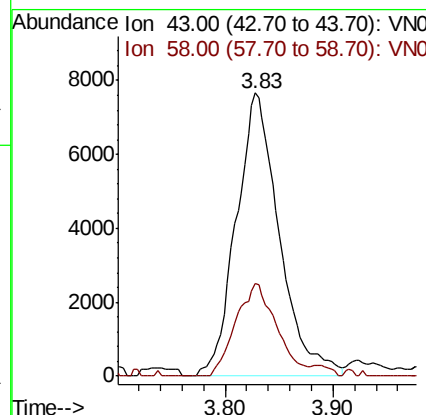
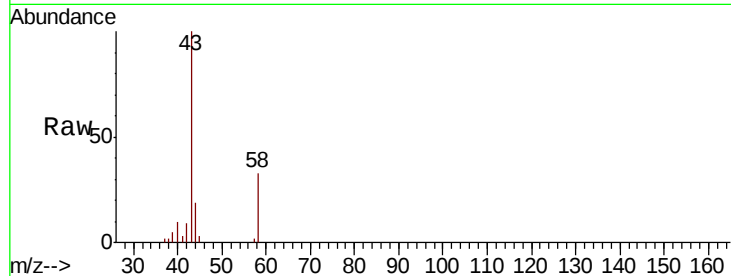




#16
Acetone
Concen: Below Cal
RT: 3.83 min Scan# 639
Delta R.T. 0.01 min
Lab File: VN051549.D
Acq: 26 Sep 2018 21:12

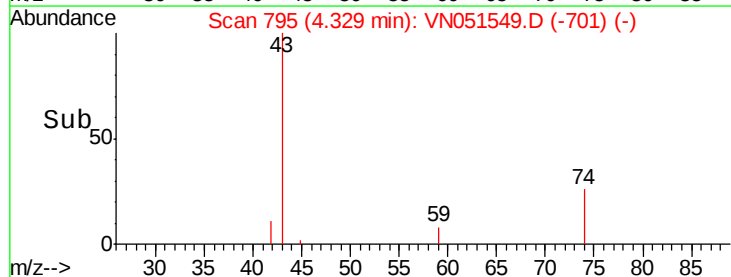
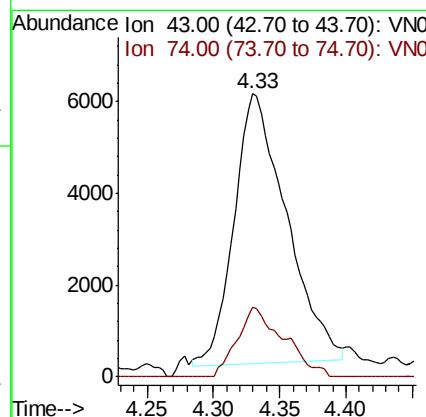
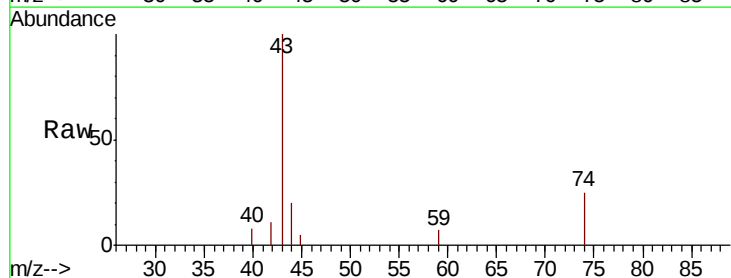
Instrument :
MSVOA_N
ClientSampleId :
PB113219ZHE#06

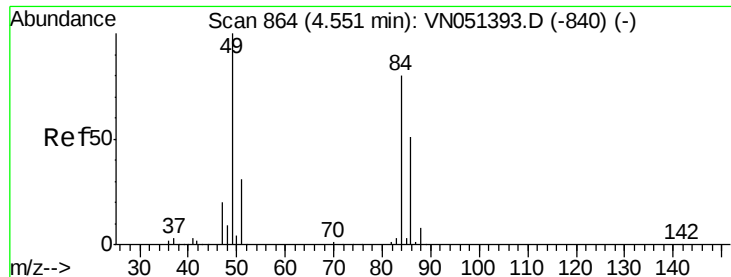
Tot Ion: 43 Resp: 21266
Ion Ratio Lower Upper
43 100
58 32.9 25.0 37.4



#18
Methyl Acetate
Concen: 2.697 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN051549.D
Acq: 26 Sep 2018 21:12

Tgt Ion: 43 Resp: 16206
Ion Ratio Lower Upper
43 100
74 22.9 18.8 28.2

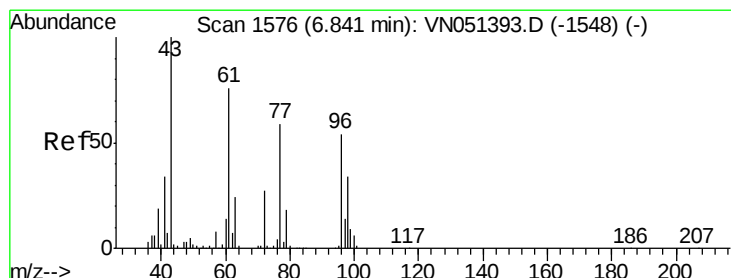
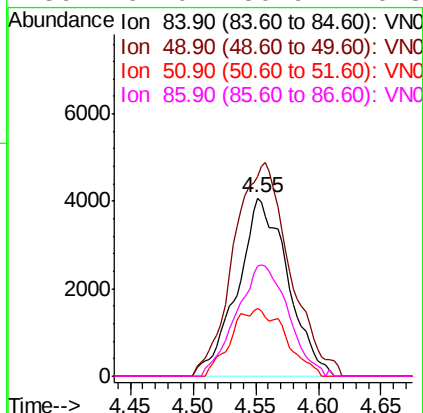
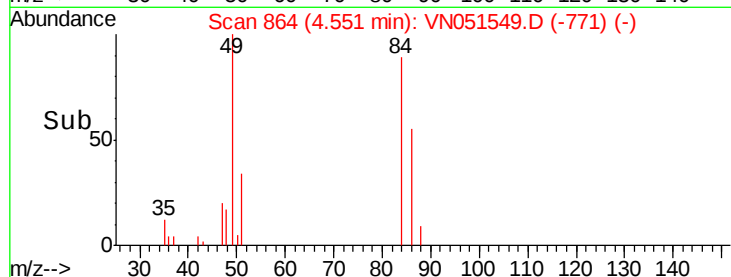
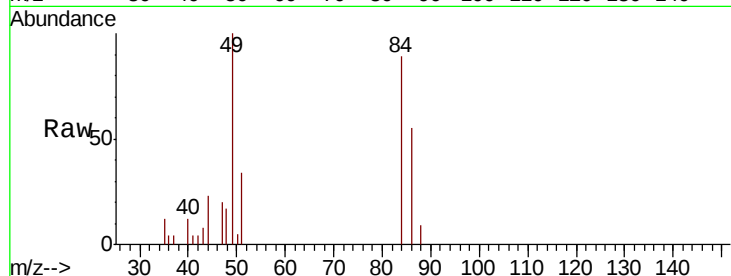




#20
Methvlene Chloride
Concen: 1.453 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN051549.D
Acq: 26 Sep 2018 21:12

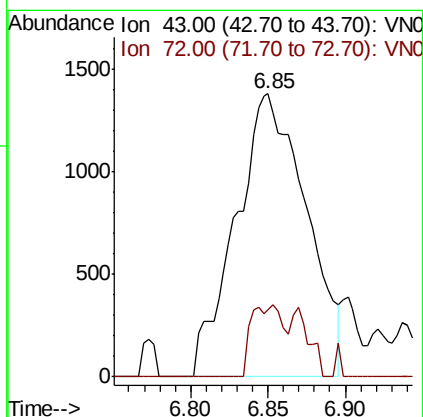
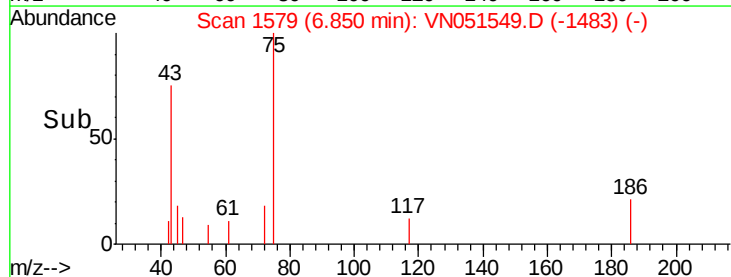
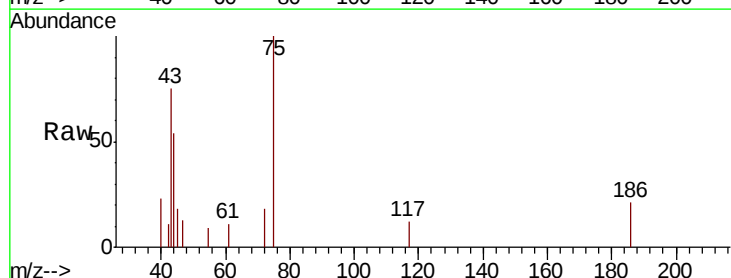
Instrument :
MSVOA_N
ClientSampleId :
PB113219ZHE#06

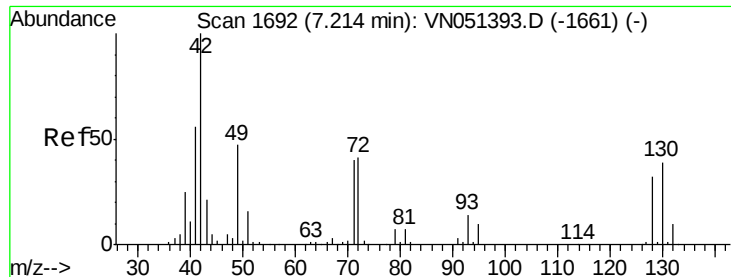
Tot Ion: 84 Resp: 11344
Ion Ratio Lower Upper
84 100
49 111.8 99.9 149.9
51 38.2 31.4 47.2
86 62.0 50.9 76.3



#25
2-Butanone
Concen: 1.621 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN051549.D
Acq: 26 Sep 2018 21:12

Tgt Ion: 43 Resp: 4379
Ion Ratio Lower Upper
43 100
72 23.6 21.8 32.6





#29

Tetrahydrofuran

Concen: 1.157 ug/l

RT: 7.22 min Scan# 1695

Delta R.T. 0.01 min

Lab File: VN051549.D

Acq: 26 Sep 2018 21:12

Instrument :

MSVOA_N

ClientSampleId :

PB113219ZHE#06

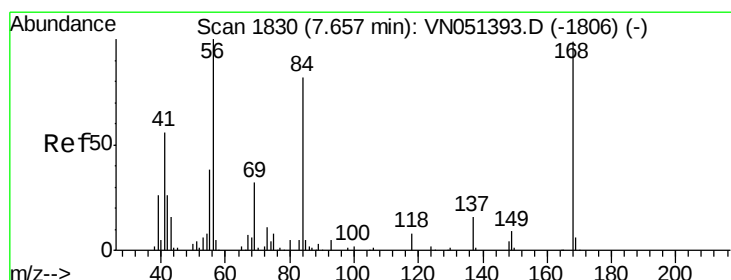
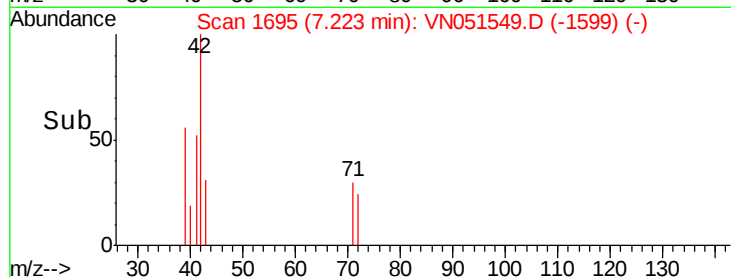
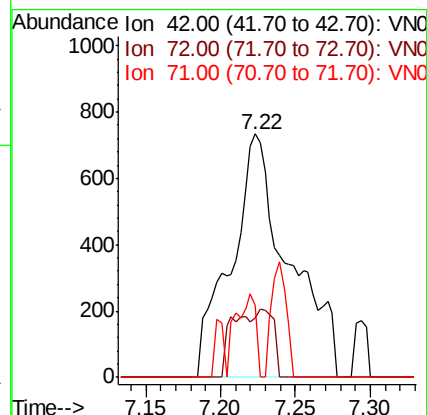
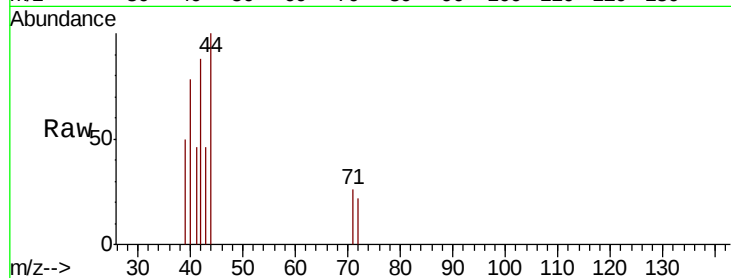
Tot Ion: 42 Resp: 1980

Ion Ratio Lower Upper

42 100

72 0.0 34.3 51.5#

71 11.9 32.2 48.4#



#31

Cyclohexane

Concen: 1.005 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. 0.01 min

Lab File: VN051549.D

Acq: 26 Sep 2018 21:12

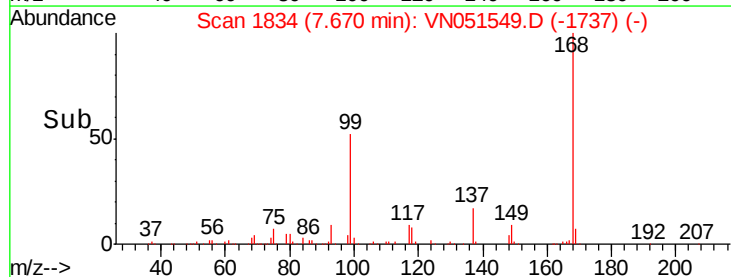
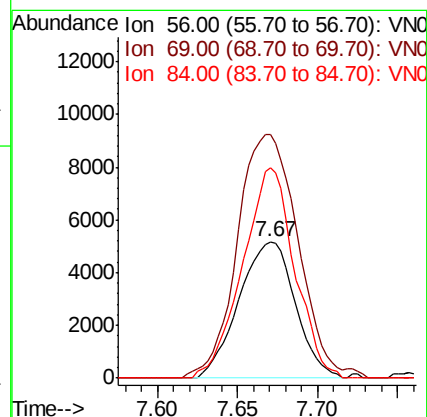
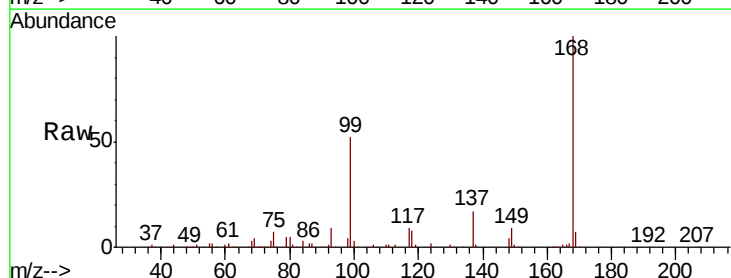
Tgt Ion: 56 Resp: 12489

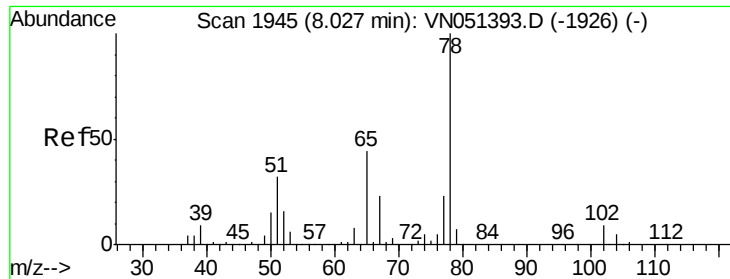
Ion Ratio Lower Upper

56 100

69 173.5 25.8 38.6#

84 154.6 66.0 99.0#

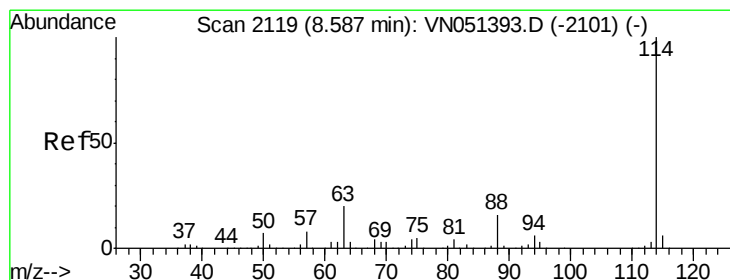
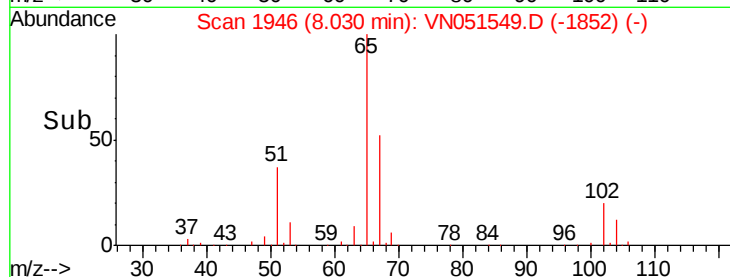
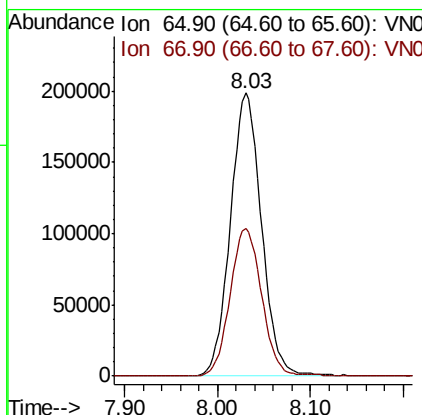
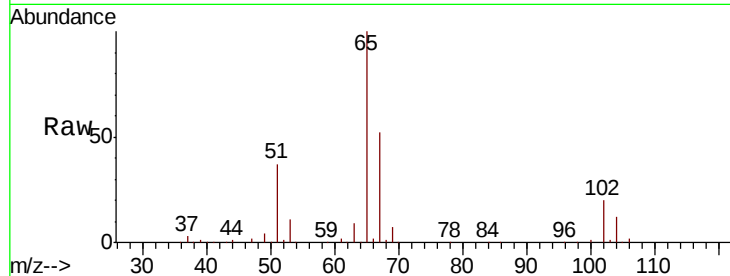




#33
 1,2-Dichloroethane-d4
 Concen: 58.578 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051549.D
 Acq: 26 Sep 2018 21:12

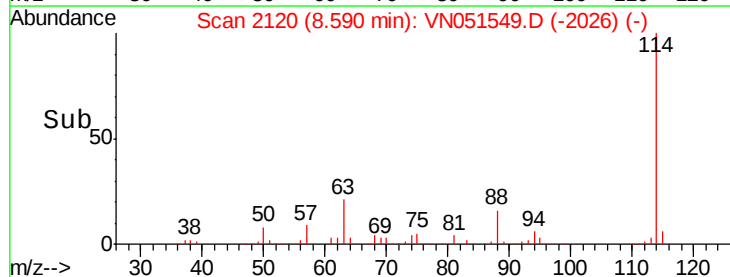
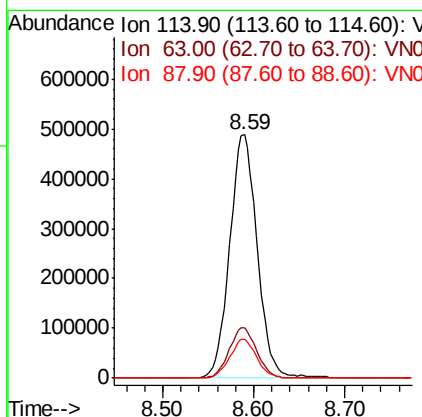
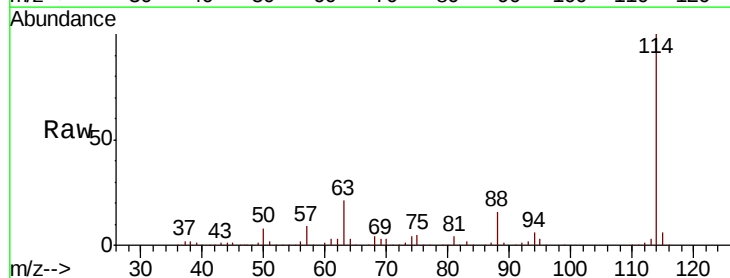
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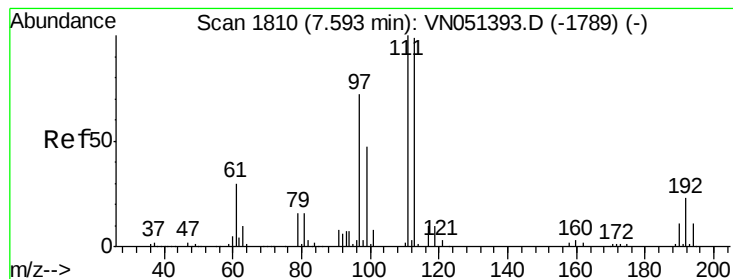
Tot Ion: 65 Resp: 462197
 Ion Ratio Lower Upper
 65 100
 67 52.9 0.0 107.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2120
 Delta R.T. 0.00 min
 Lab File: VN051549.D
 Acq: 26 Sep 2018 21:12

Tgt Ion: 114 Resp: 1026958
 Ion Ratio Lower Upper
 114 100
 63 20.8 0.0 40.2
 88 16.0 0.0 31.4





#35

Dibromofluoromethane

Concen: 48.341 ug/l

RT: 7.60 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VN051549.D

Acq: 26 Sep 2018 21:12

Instrument :

MSVOA_N

ClientSampleId :

PB113219ZHE#06

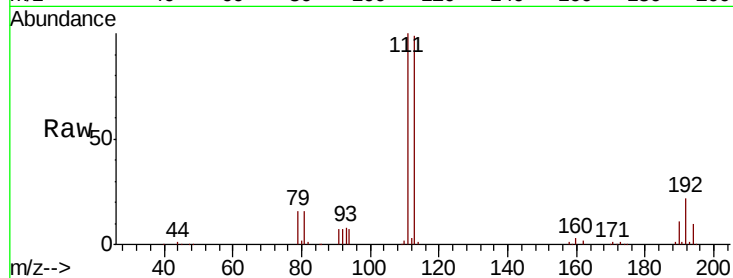
Tot Ion:113 Resp: 396982

Ion Ratio Lower Upper

113 100

111 101.1 82.6 123.8

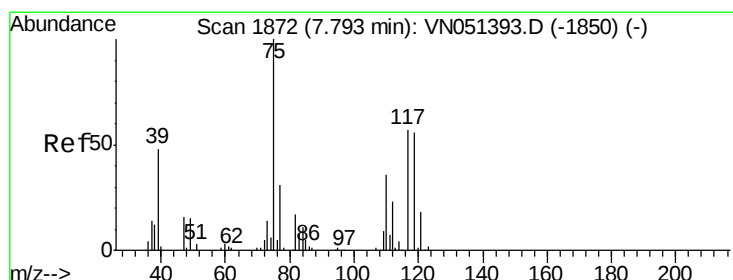
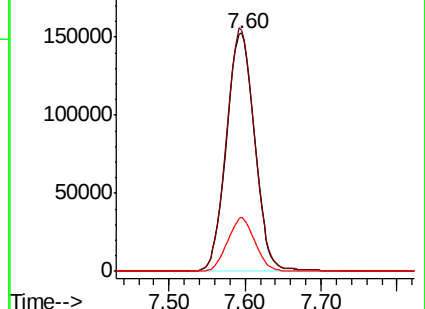
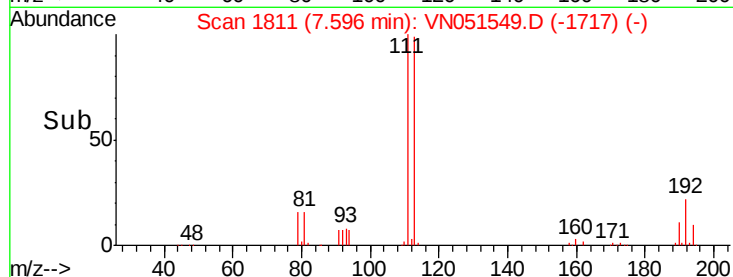
192 21.7 18.0 27.0



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 3.957 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.12 min

Lab File: VN051549.D

Acq: 26 Sep 2018 21:12

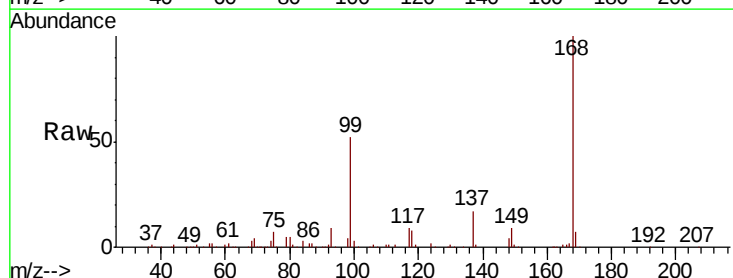
Tgt Ion: 75 Resp: 47060

Ion Ratio Lower Upper

75 100

110 8.4 18.1 54.3#

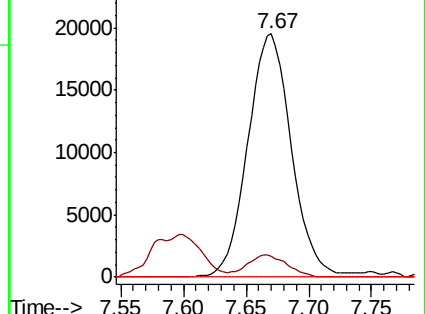
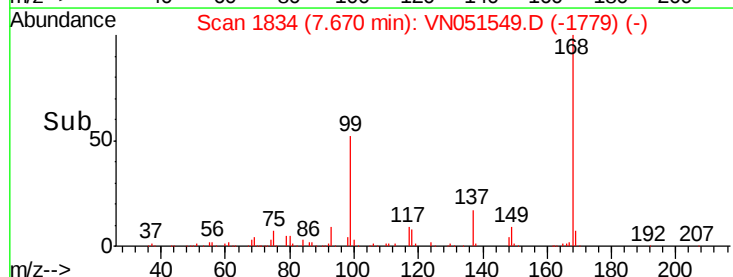
77 0.0 25.6 38.4#

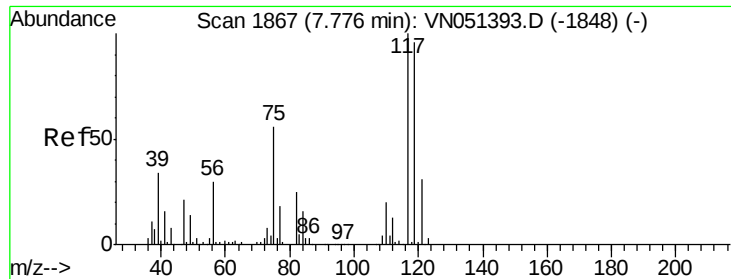


Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V





#38

Carbon Tetrachloride

Concen: 4.730 ug/l

RT: 7.67 min Scan# 1834

Delta R.T. -0.11 min

Lab File: VN051549.D

Acq: 26 Sep 2018 21:12

Instrument :

MSVOA_N

ClientSampleId :

PB113219ZHE#06

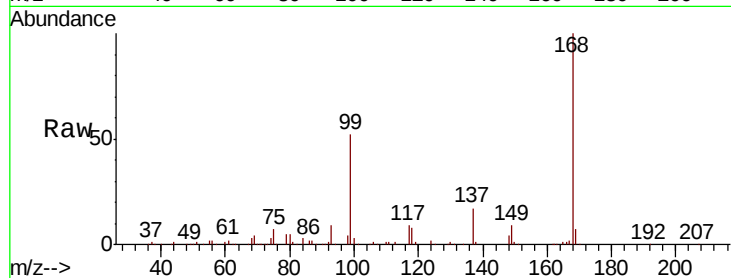
Tot Ion:117 Resp: 58835

Ion Ratio Lower Upper

117 100

119 6.9 76.9 115.3#

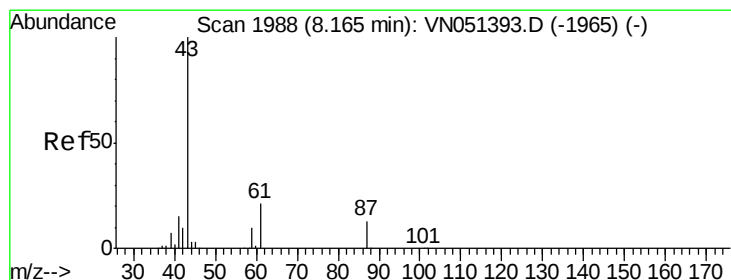
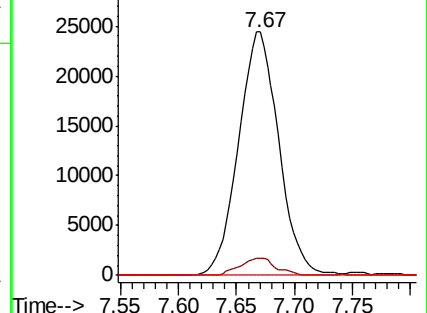
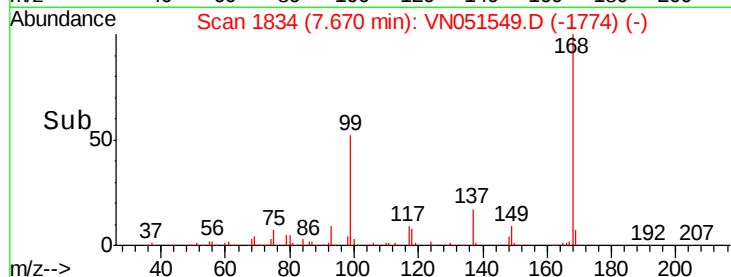
121 0.0 24.6 37.0#



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: 34.545 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN051549.D

Acq: 26 Sep 2018 21:12

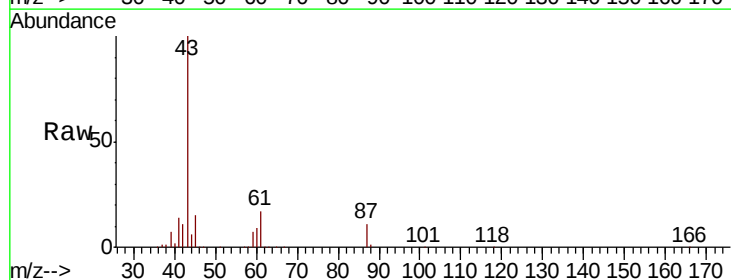
Tgt Ion: 43 Resp: 427131

Ion Ratio Lower Upper

43 100

61 14.0 16.8 25.2#

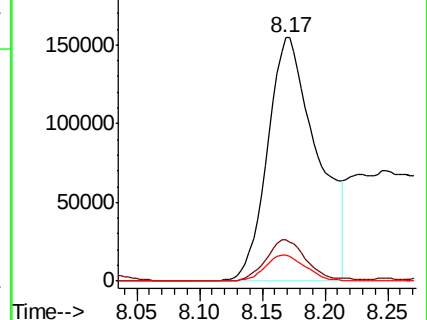
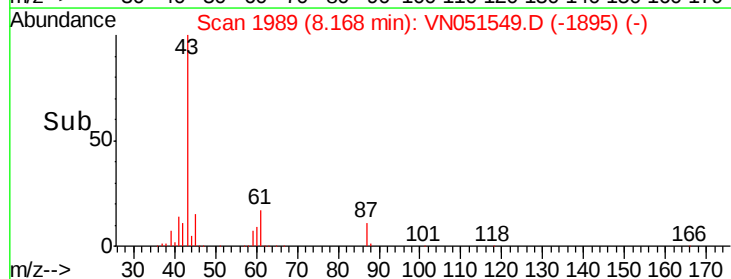
87 8.9 10.7 16.1#

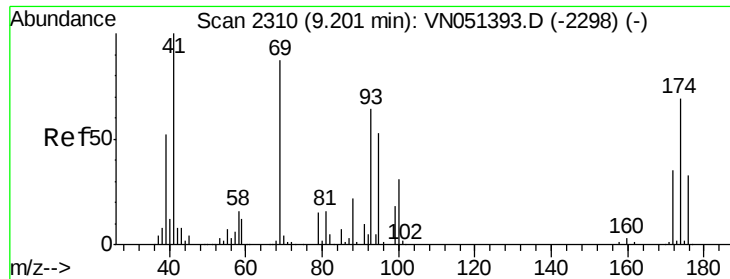


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

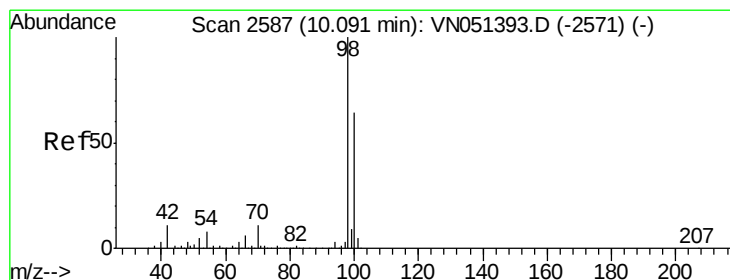
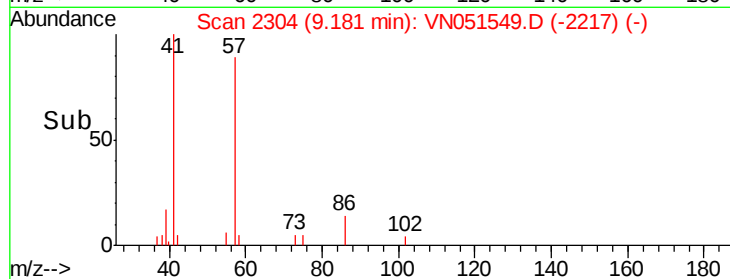
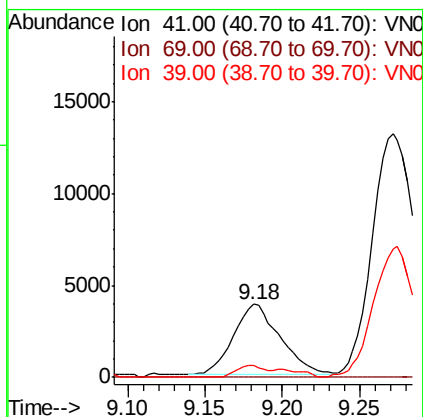
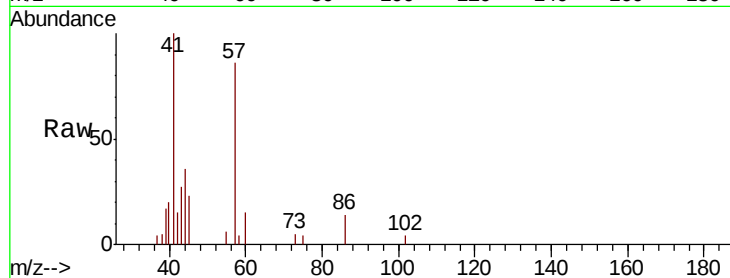




#48
Methvl methacrvlate
Concen: 1.279 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN051549.D
Acq: 26 Sep 2018 21:12

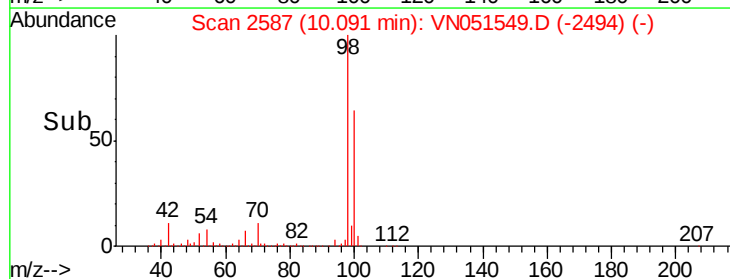
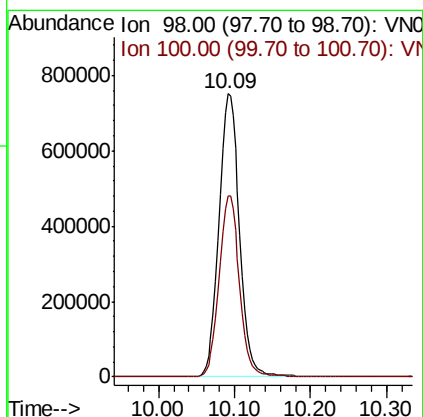
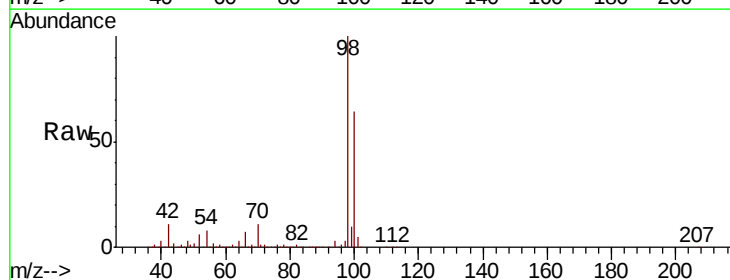
Instrument :
MSVOA_N
ClientSampleId :
PB113219ZHE#06

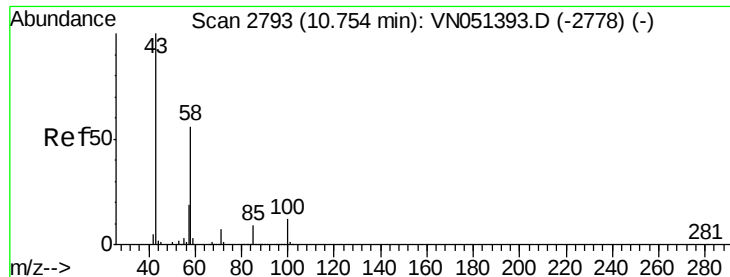
Tot Ion: 41 Resp: 7886
Ion Ratio Lower Upper
41 100
69 0.0 70.4 105.6#
39 10.2 43.8 65.8#



#50
Toluene-d8
Concen: 45.680 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051549.D
Acq: 26 Sep 2018 21:12

Tgt Ion: 98 Resp: 1412609
Ion Ratio Lower Upper
98 100
100 63.4 50.6 75.8

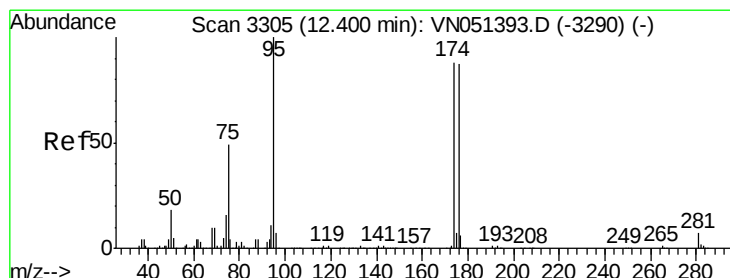
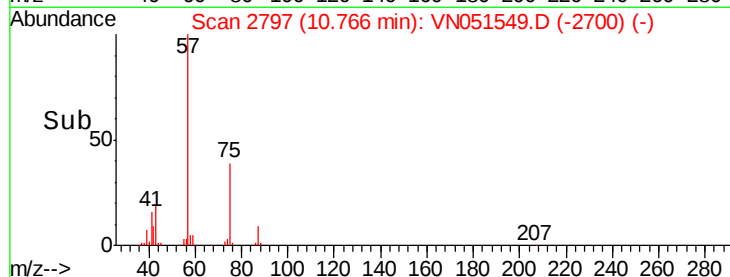
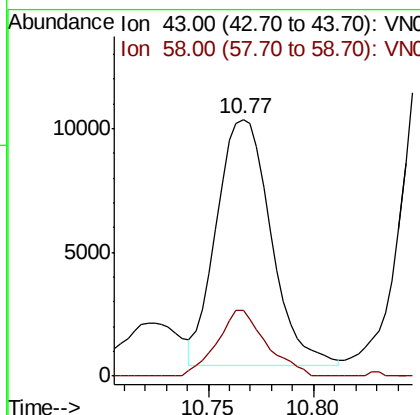
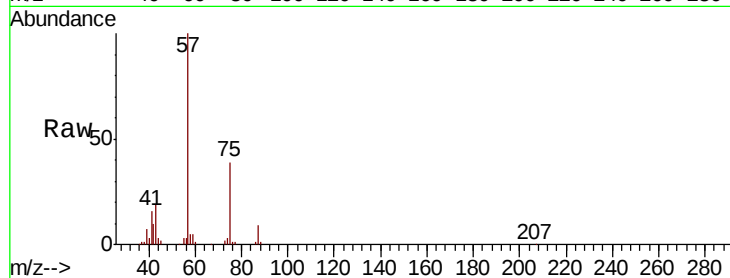




#59
2-Hexanone
Concen: 4.045 ug/l
RT: 10.77 min Scan# 2797
Delta R.T. 0.01 min
Lab File: VN051549.D
Acq: 26 Sep 2018 21:12

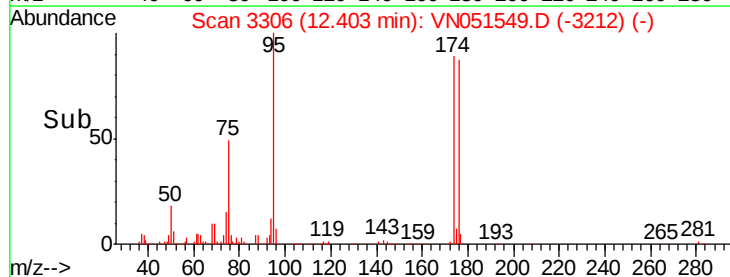
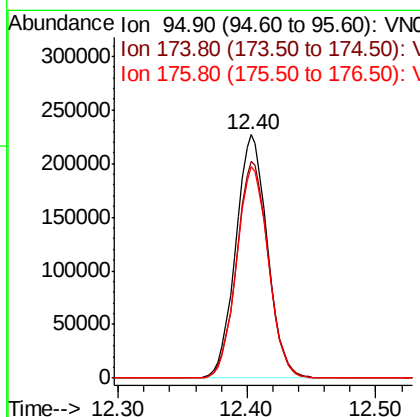
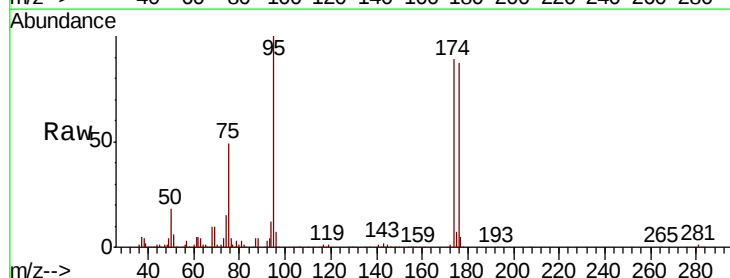
Instrument :
MSVOA_N
ClientSampleId :
PB113219ZHE#06

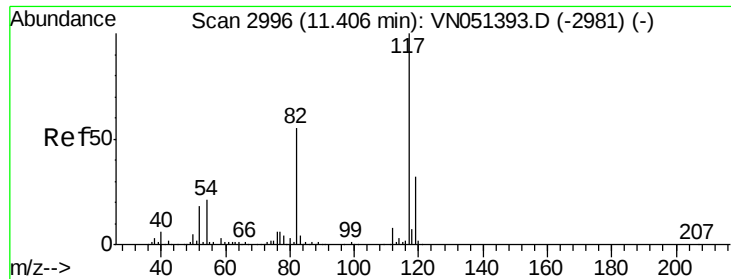
Tot Ion: 43 Resp: 17833
Ion Ratio Lower Upper
43 100
58 24.1 27.7 83.0#



#62
4-Bromofluorobenzene
Concen: 38.461 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN051549.D
Acq: 26 Sep 2018 21:12

Tgt Ion: 95 Resp: 384756
Ion Ratio Lower Upper
95 100
174 90.0 0.0 181.6
176 87.7 0.0 176.4

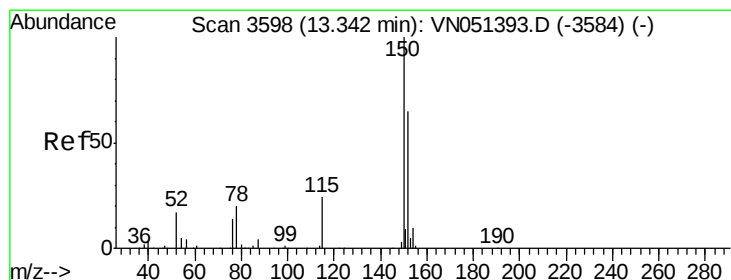
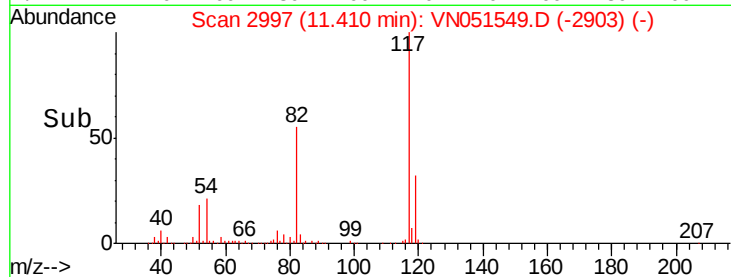
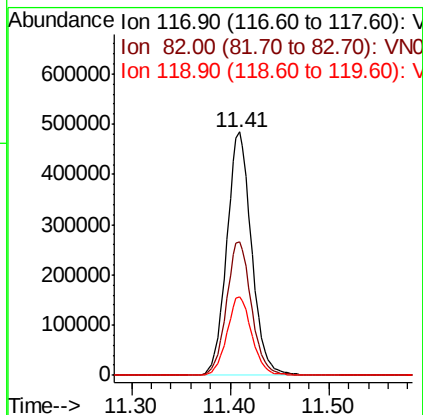
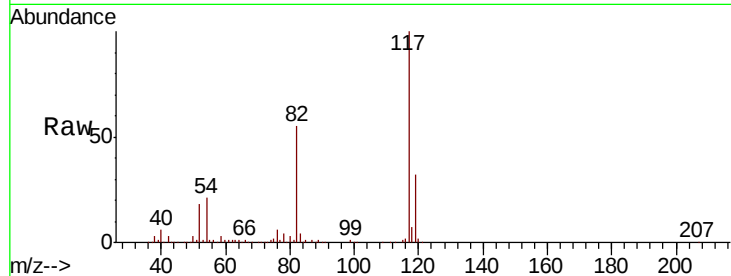




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN051549.D
Acq: 26 Sep 2018 21:12

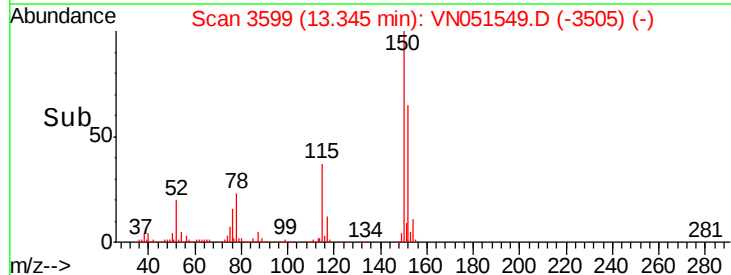
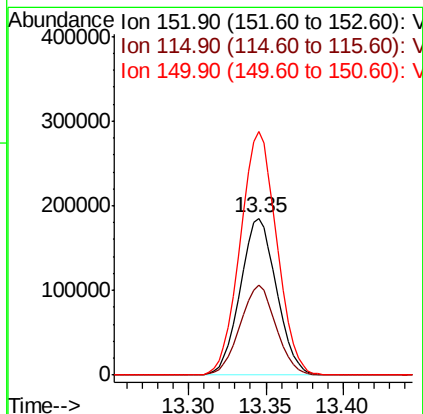
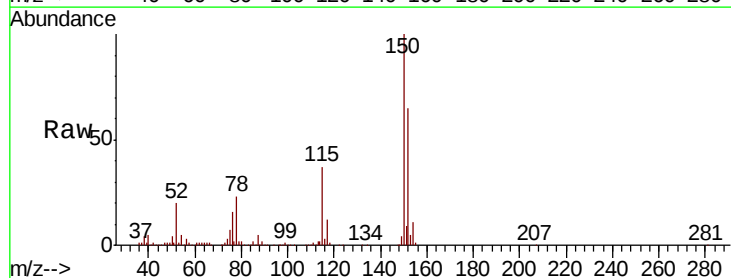
Instrument :
MSVOA_N
ClientSampleId :
PB113219ZHE#06

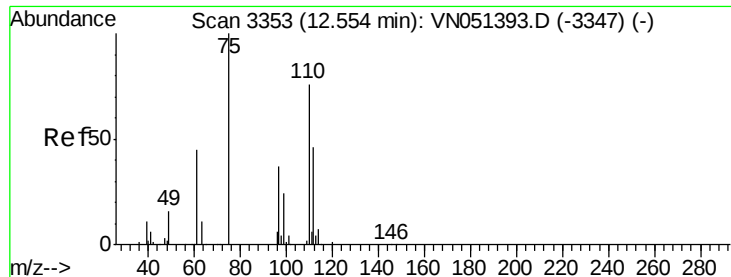
Tot Ion:117 Resp: 852300
Ion Ratio Lower Upper
117 100
82 55.1 44.2 66.2
119 32.5 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051549.D
Acq: 26 Sep 2018 21:12

Tgt Ion:152 Resp: 301981
Ion Ratio Lower Upper
152 100
115 56.7 28.3 84.9
150 156.2 0.0 353.6





#76

1,2,3-Trichloropropane

Concen: 37.356 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN051549.D

Acq: 26 Sep 2018 21:12

Instrument :

MSVOA_N

ClientSampleId :

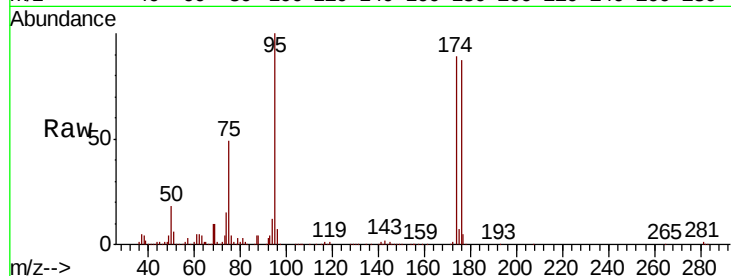
PB113219ZHE#06

Tot Ion: 75 Resp: 187271

Ion Ratio Lower Upper

75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

120000

100000

80000

60000

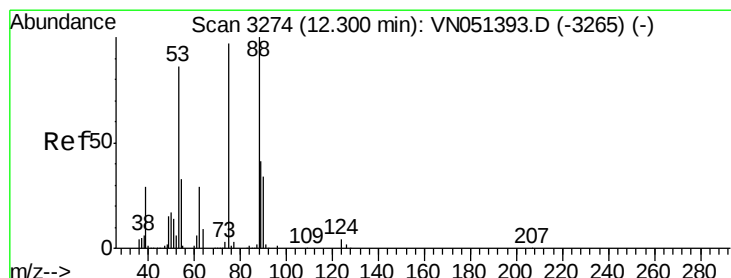
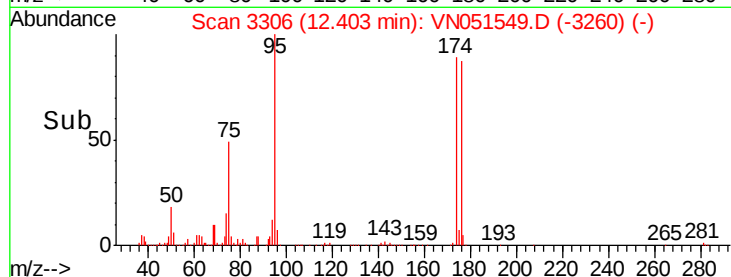
40000

20000

0

12.35 12.40 12.45 12.50

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 114.869 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN051549.D

Acq: 26 Sep 2018 21:12

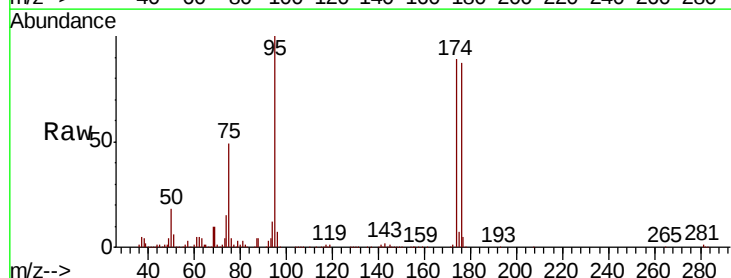
Tgt Ion: 75 Resp: 187271

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

89 0.0 36.7 55.1#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

150000

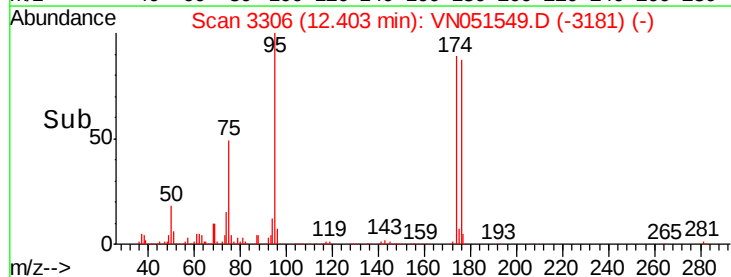
100000

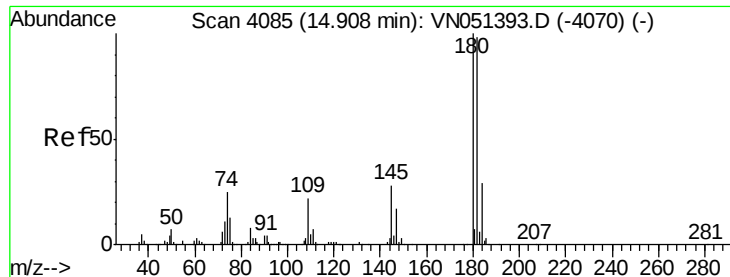
50000

0

12.35 12.40 12.45 12.50

Time-->

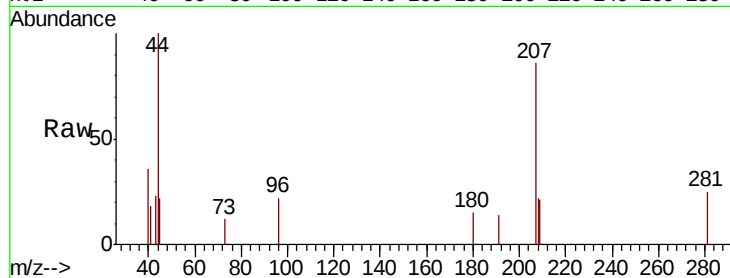




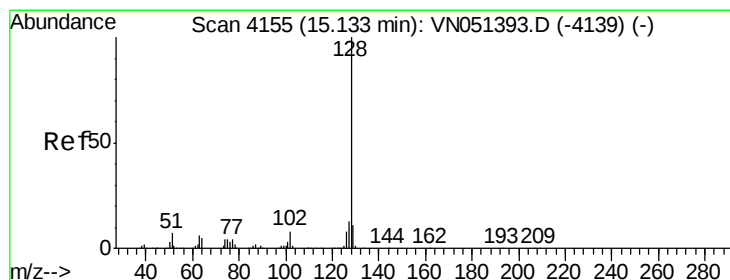
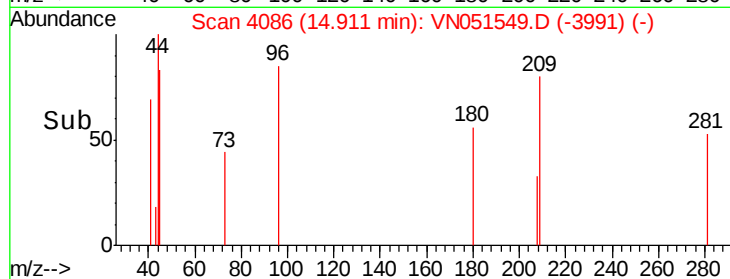
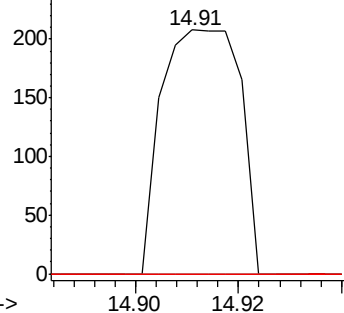
#93
 1,2,4-Trichlorobenzene
 Concen: 6.015 ug/l
 RT: 14.91 min Scan# 4086
 Delta R.T. 0.00 min
 Lab File: VN051549.D
 Acq: 26 Sep 2018 21:12

Instrument :
 MSVOA_N
 ClientSampleId :
 PB113219ZHE#06

Tot Ion	Ratio	Lower	Upper
180	100		
182	0.0	48.5	145.6#
145	0.0	14.1	42.4#

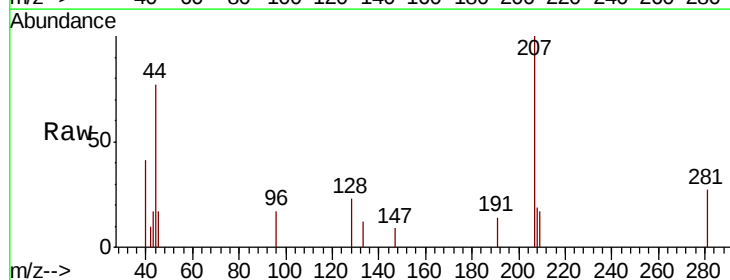


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V



#95
 Naphthalene
 Concen: 8.079 ug/l
 RT: 15.13 min Scan# 4155
 Delta R.T. -0.00 min
 Lab File: VN051549.D
 Acq: 26 Sep 2018 21:12

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.5	15.7#
129	0.0	8.6	12.8#



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

