

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN101519\
 Data File : VN058778.D
 Acq On : 15 Oct 2019 13:42
 Operator : JC/SP
 Sample : PB123965TB
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB123965TB

Quant Time: Oct 16 04:16:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 12 00:00:30 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	383687	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	597869	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	528802	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	208592	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	270348	50.33	ug/l	0.00
Spiked Amount						
			Recovery	=	100.66%	
35) Dibromofluoromethane	7.57	113	193730	52.46	ug/l	0.00
Spiked Amount						
			Recovery	=	104.92%	
50) Toluene-d8	10.08	98	745198	50.46	ug/l	0.00
Spiked Amount						
			Recovery	=	100.92%	
62) 4-Bromofluorobenzene	12.40	95	239953	42.93	ug/l	0.00
Spiked Amount						
			Recovery	=	85.86%	

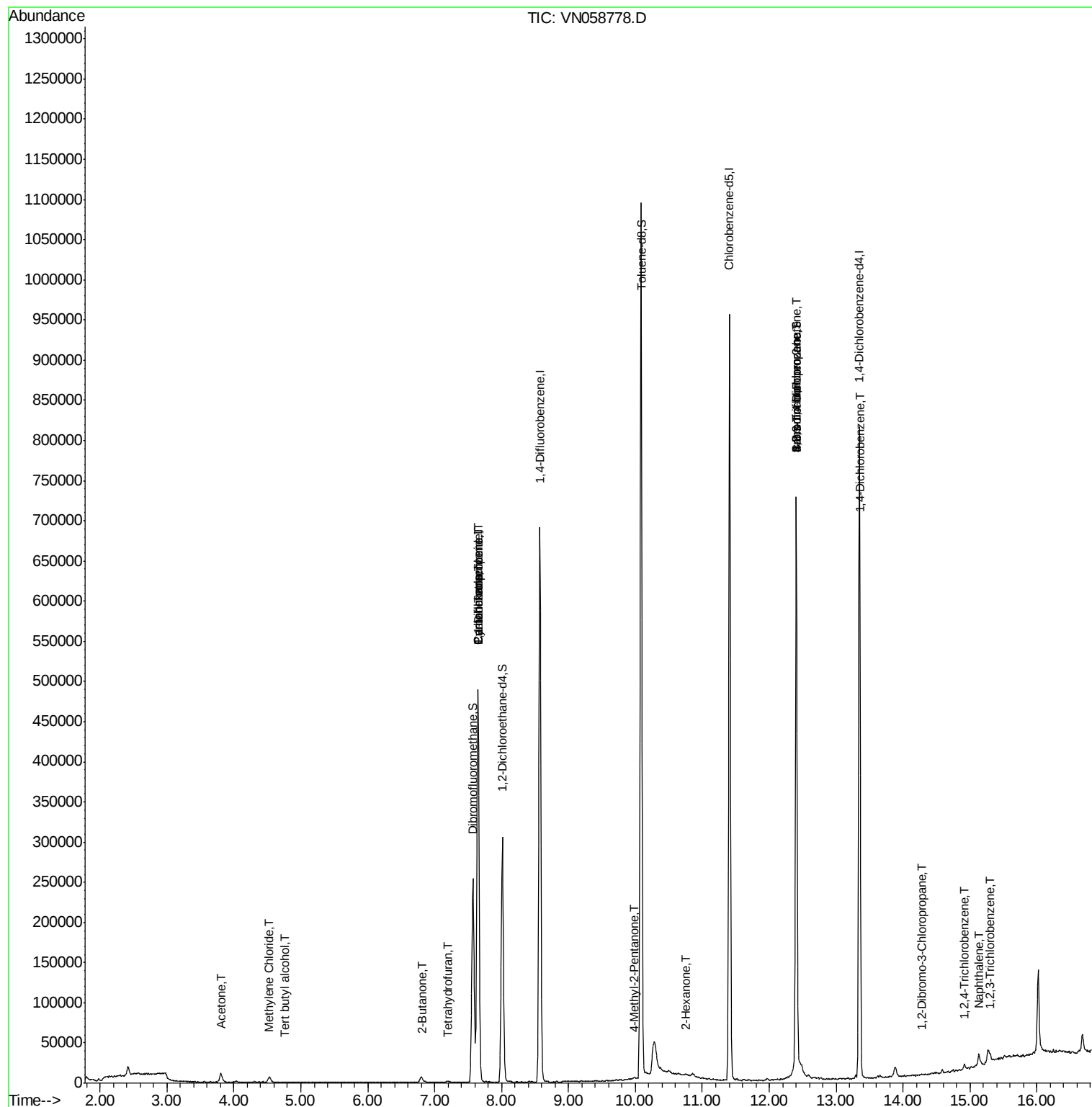
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.75	59	183	0.210	ug/l #	72
16) Acetone	3.81	43	5631	2.532	ug/l	100
20) Methylene Chloride	4.54	84	4642	0.999	ug/l	96
25) 2-Butanone	6.82	43	655	0.204	ug/l #	50
29) Tetrahydrofuran	7.20	42	1039	0.500	ug/l #	40
31) Cyclohexane	7.64	56	9465	1.201	ug/l #	1
36) 1,1-Dichloropropene	7.65	75	33483	5.539	ug/l #	50
38) Carbon Tetrachloride	7.65	117	38523	6.539	ug/l #	16
51) 4-Methyl-2-Pentanone	9.98	43	1196	0.204	ug/l #	37
59) 2-Hexanone	10.75	43	1669	0.369	ug/l	78
71) Bromoform	12.40	173	594	0.204	ug/l #	28
76) 1,2,3-Trichloropropane	12.40	75	131433	28.722	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	131433	76.938	ug/l #	11
88) 1,4-Dichlorobenzene	13.36	146	1521	0.221	ug/l #	1
92) 1,2-Dibromo-3-Chloropropan	14.27	75	670	0.576	ug/l #	17
93) 1,2,4-Trichlorobenzene	14.92	180	1979	0.491	ug/l	92
95) Naphthalene	15.13	128	8560	0.739	ug/l	97
96) 1,2,3-Trichlorobenzene	15.30	180	2476	0.629	ug/l	84

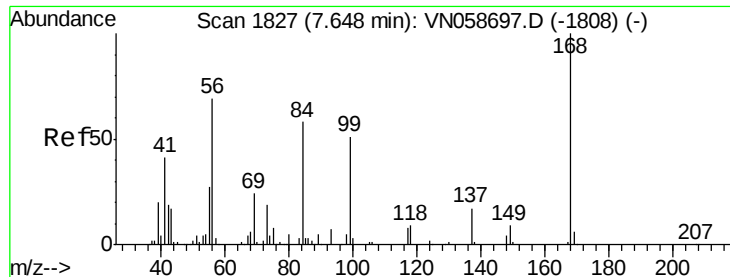
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.00 min

Lab File: VN058778.D

Acq: 15 Oct 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

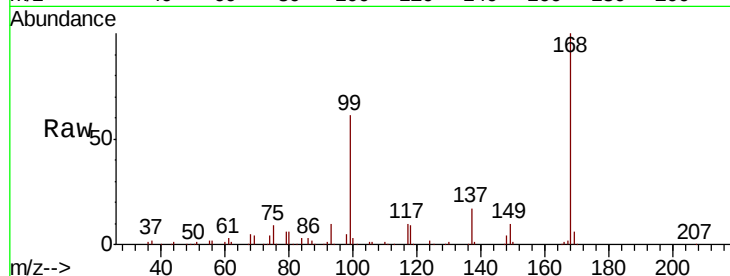
PB123965TB

Tot Ion:168 Resp: 383687

Ion Ratio Lower Upper

168 100

99 60.7 47.5 71.3



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

150000

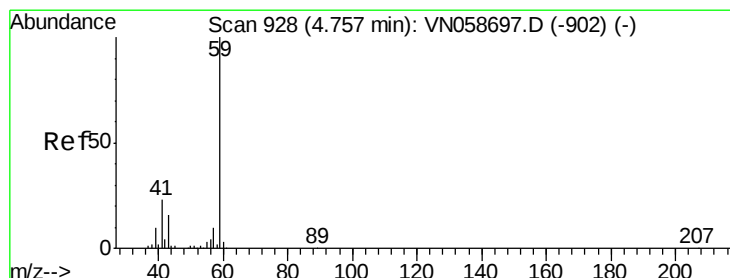
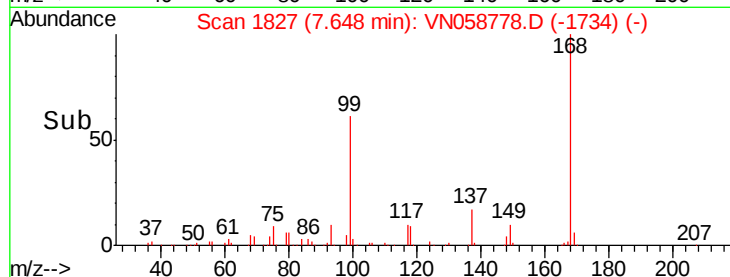
100000

50000

0

7.60 7.70

Time-->



#11

Tert butyl alcohol

Concen: 0.210 ug/l

RT: 4.75 min Scan# 926

Delta R.T. -0.01 min

Lab File: VN058778.D

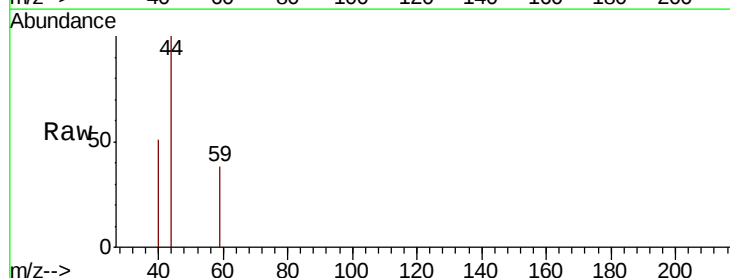
Acq: 15 Oct 2019 13:42

Tgt Ion: 59 Resp: 183

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VN

Ion 57.00 (56.70 to 57.70): VN

250

200

150

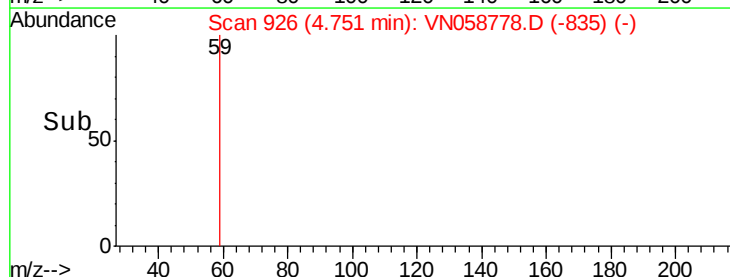
100

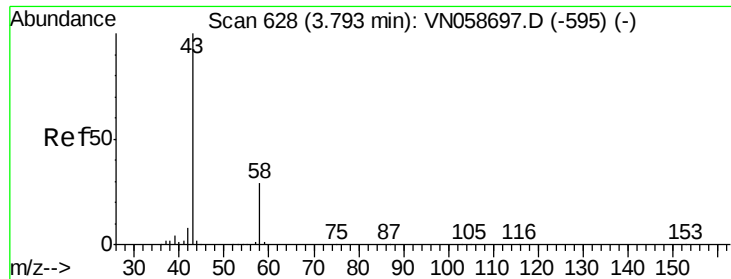
50

0

4.74 4.75 4.76 4.77

Time-->





#16

Acetone

Concen: 2.532 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN058778.D

Acq: 15 Oct 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

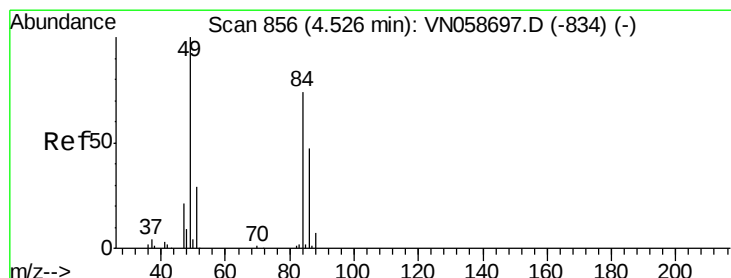
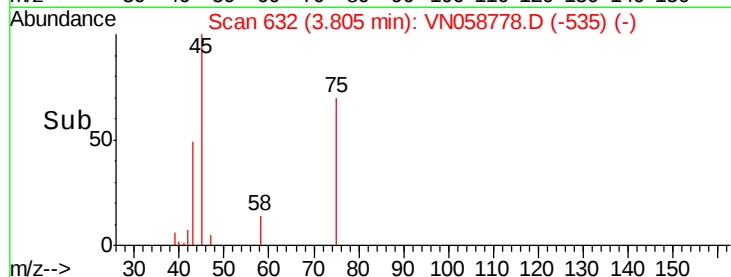
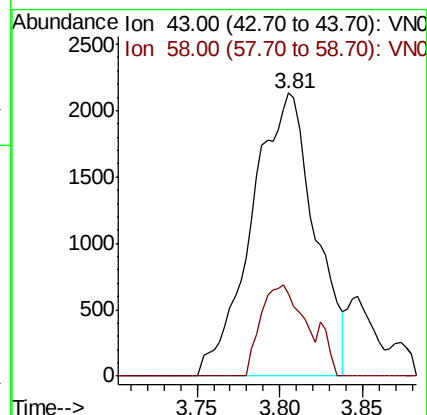
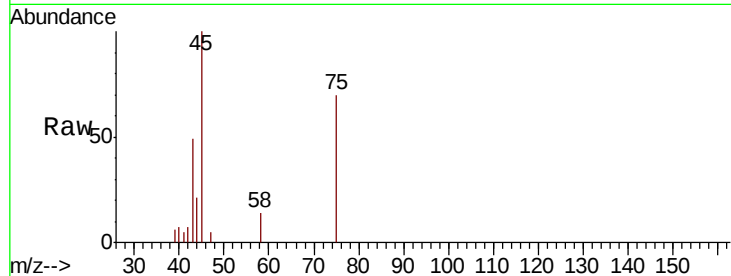
PB123965TB

Tot Ion: 43 Resp: 5631

Ion Ratio Lower Upper

43 100

58 28.9 23.3 34.9



#20

Methylene Chloride

Concen: 0.999 ug/l

RT: 4.54 min Scan# 859

Delta R.T. 0.01 min

Lab File: VN058778.D

Acq: 15 Oct 2019 13:42

Tgt Ion: 84 Resp: 4642

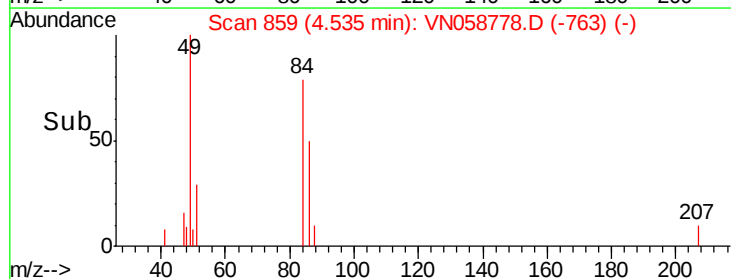
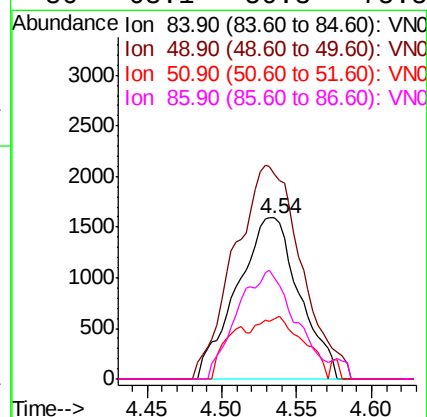
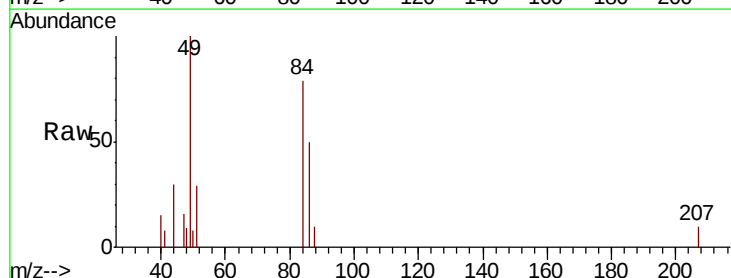
Ion Ratio Lower Upper

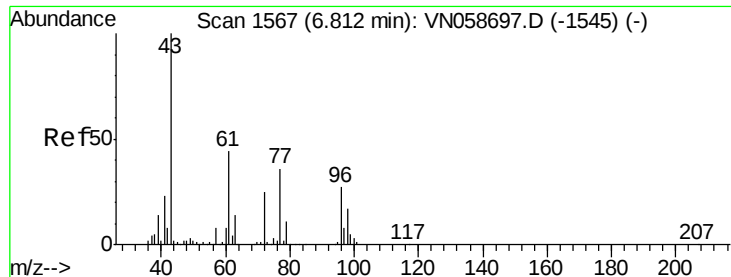
84 100

49 126.9 107.6 161.4

51 37.1 31.4 47.0

86 63.1 50.3 75.5





#25

2-Butanone

Concen: 0.204 ug/l

RT: 6.82 min Scan# 1570

Delta R.T. 0.01 min

Lab File: VN058778.D

Acq: 15 Oct 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

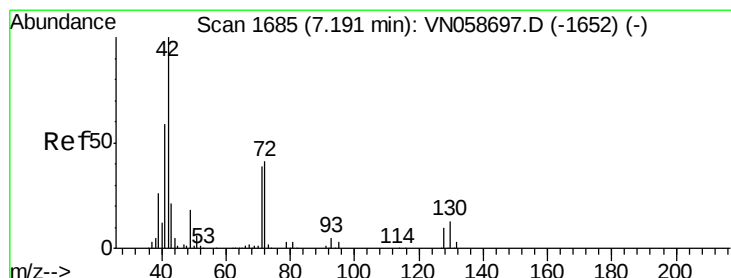
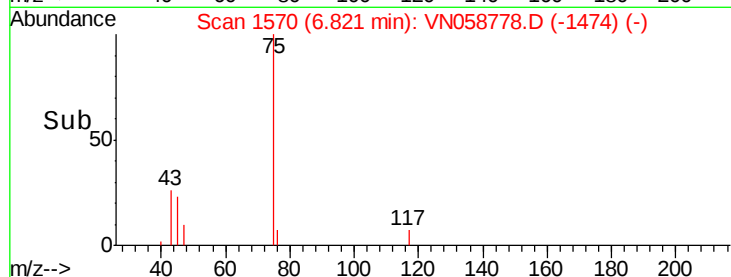
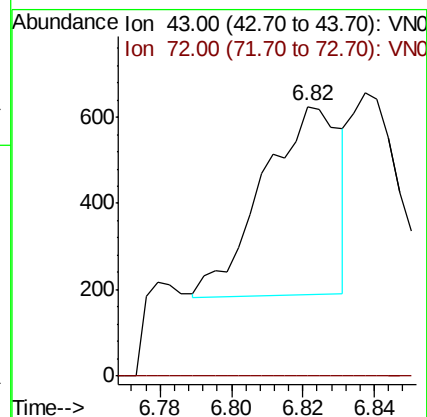
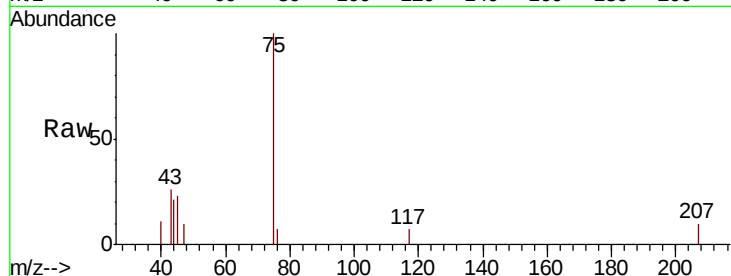
PB123965TB

Tot Ion: 43 Resp: 655

Ion Ratio Lower Upper

43 100

72 0.0 20.2 30.2#



#29

Tetrahydrofuran

Concen: 0.500 ug/l

RT: 7.20 min Scan# 1688

Delta R.T. 0.01 min

Lab File: VN058778.D

Acq: 15 Oct 2019 13:42

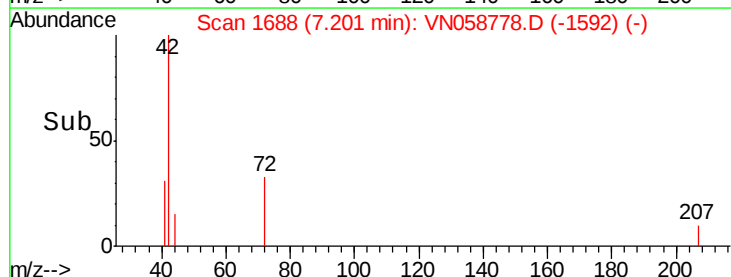
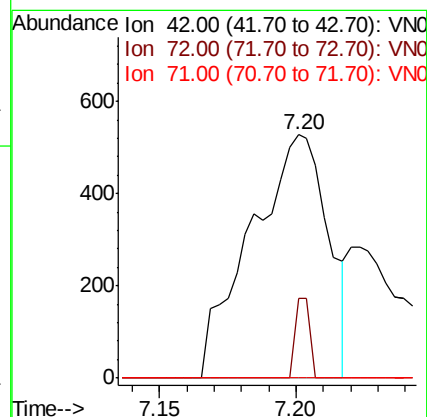
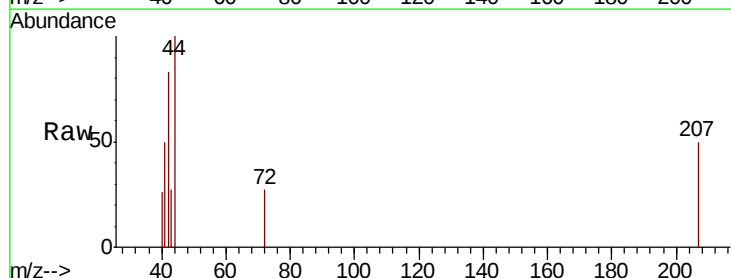
Tgt Ion: 42 Resp: 1039

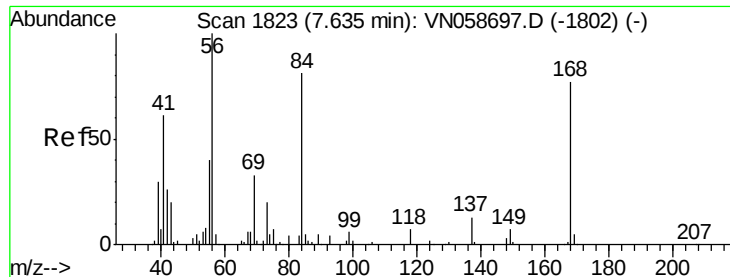
Ion Ratio Lower Upper

42 100

72 6.4 32.8 49.2#

71 0.0 31.1 46.7#





#31

Cyclohexane

Concen: 1.201 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN058778.D

Acq: 15 Oct 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

PB123965TB

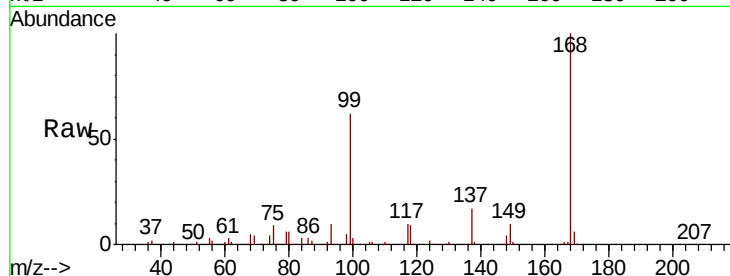
Tot Ion: 56 Resp: 9465

Ion Ratio Lower Upper

56 100

69 171.4 26.2 39.4#

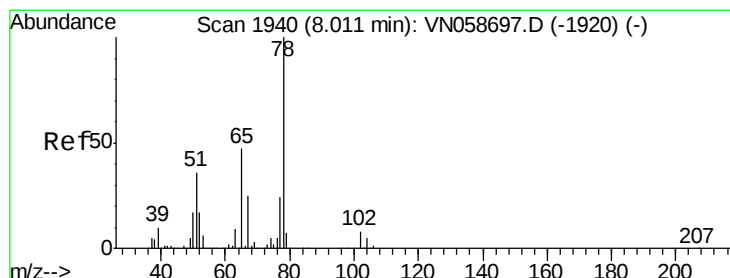
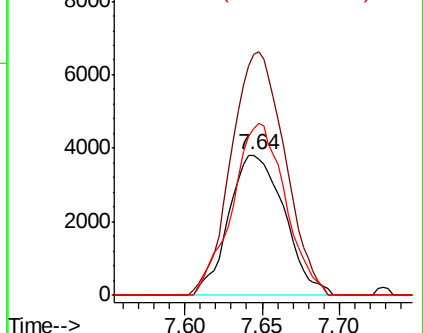
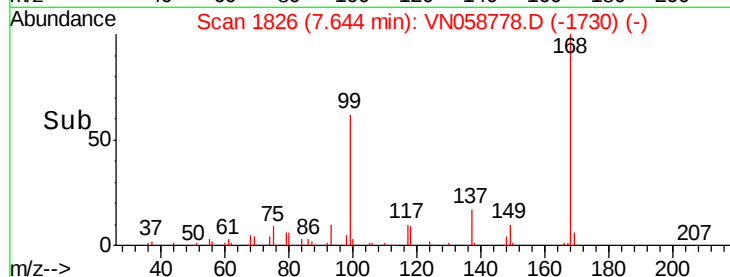
84 118.6 64.9 97.3#



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: 50.330 ug/l

RT: 8.01 min Scan# 1940

Delta R.T. -0.00 min

Lab File: VN058778.D

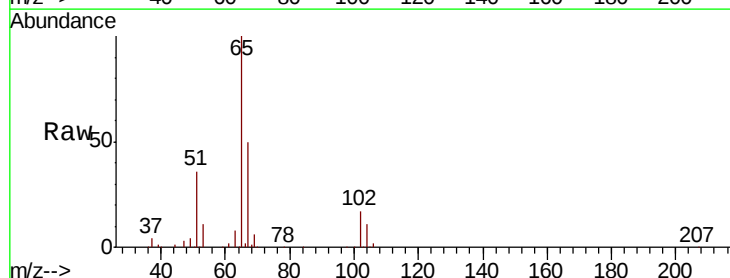
Acq: 15 Oct 2019 13:42

Tgt Ion: 65 Resp: 270348

Ion Ratio Lower Upper

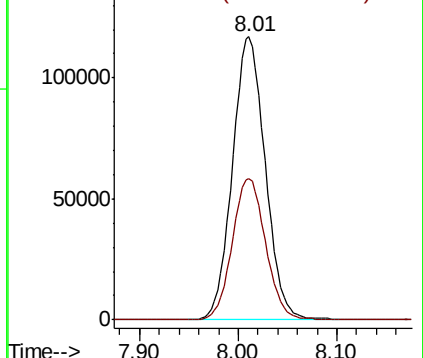
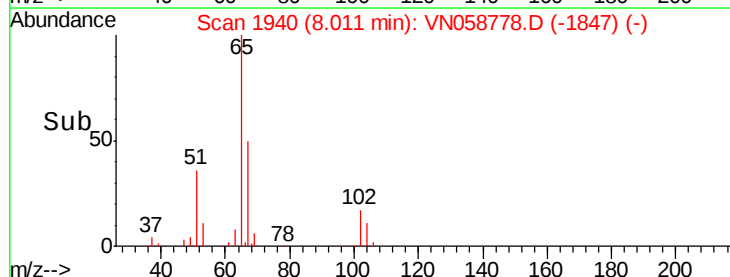
65 100

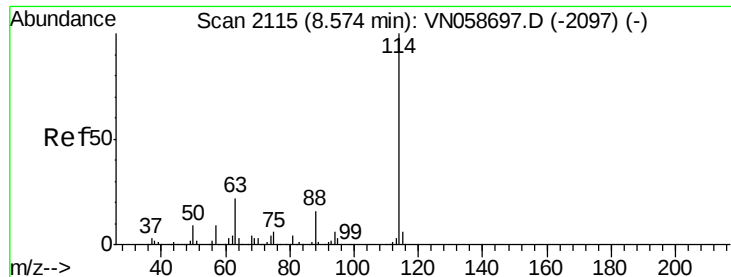
67 50.8 0.0 103.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

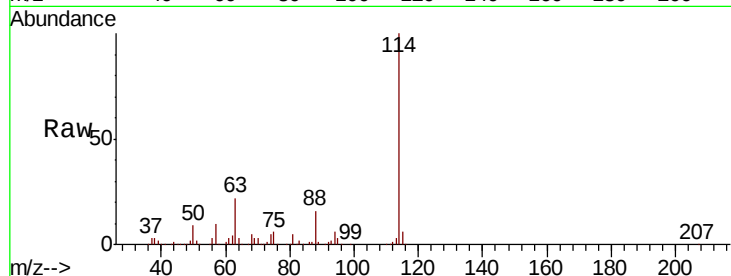




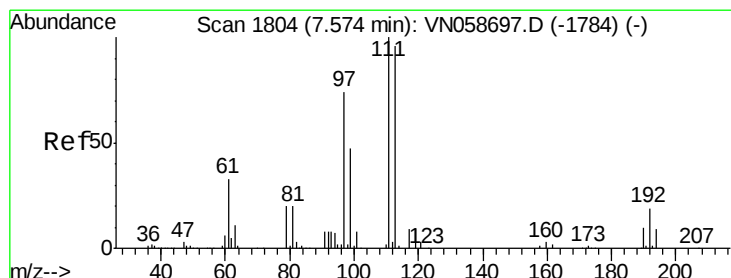
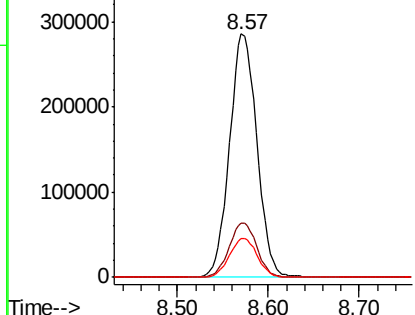
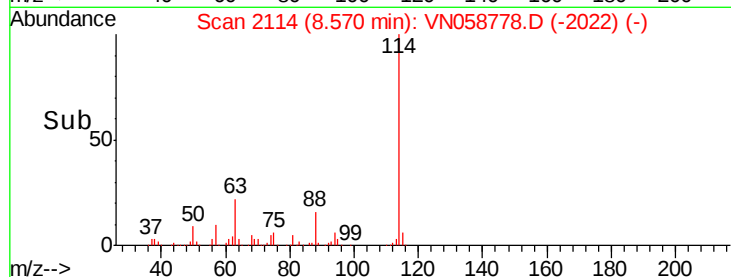
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. -0.00 min
 Lab File: VN058778.D
 Acq: 15 Oct 2019 13:42

Instrument :
 MSVOA_N
 ClientSampleId :
 PB123965TB

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	43.8
88	15.9	0.0	32.0

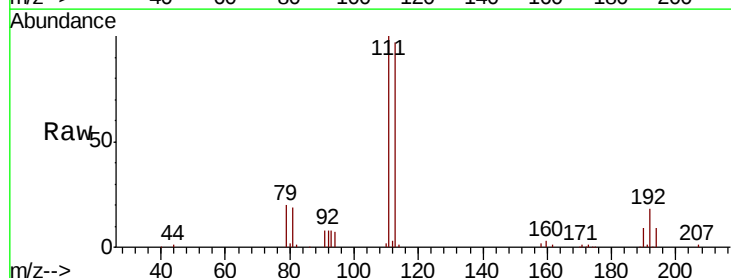


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

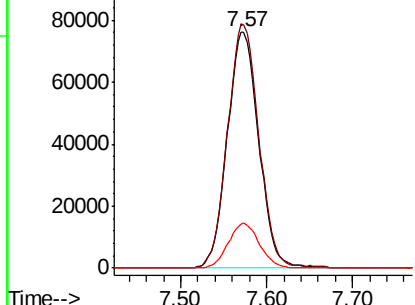
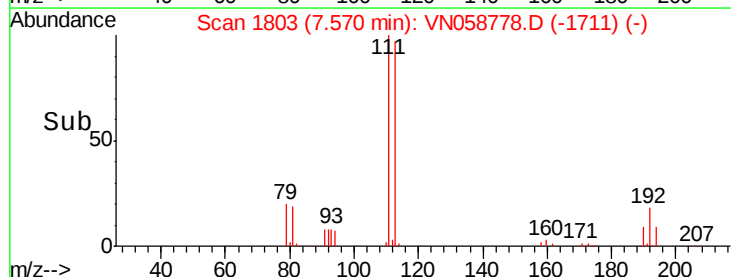


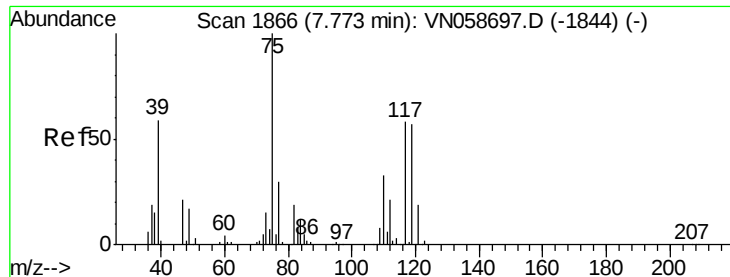
#35
 Dibromofluoromethane
 Concen: 52.460 ug/l
 RT: 7.57 min Scan# 1803
 Delta R.T. -0.00 min
 Lab File: VN058778.D
 Acq: 15 Oct 2019 13:42

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.5	82.3	123.5
192	18.8	15.0	22.6



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: 5.539 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.13 min

Lab File: VN058778.D

Acq: 15 Oct 2019 13:42

Instrument :

MSVOA_N

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PB123965TB

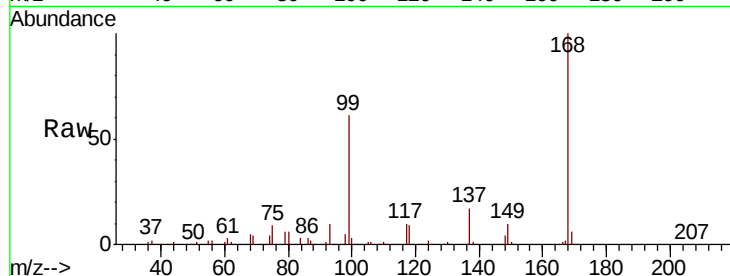
Tot Ion: 75 Resp: 33483

Ion Ratio Lower Upper

75 100

110 8.5 16.6 49.8#

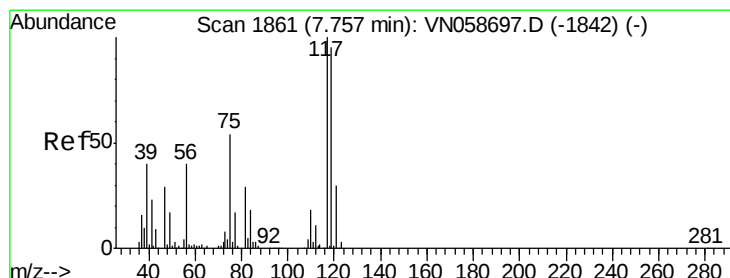
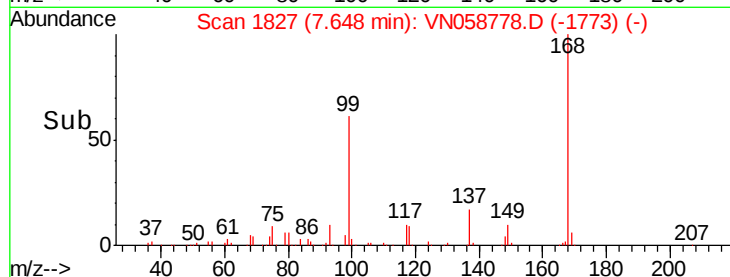
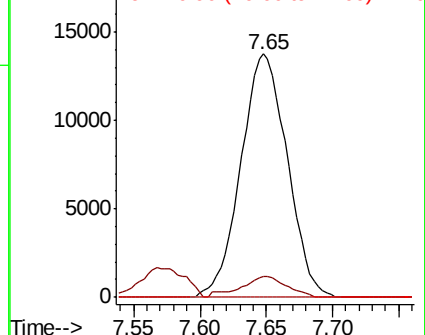
77 0.0 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VN058697.D (-1844) (-)

Ion 109.90 (109.60 to 110.60): VN058697.D (-1844) (-)

Ion 76.90 (76.60 to 77.60): VN058697.D (-1844) (-)



#38

Carbon Tetrachloride

Concen: 6.539 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN058778.D

Acq: 15 Oct 2019 13:42

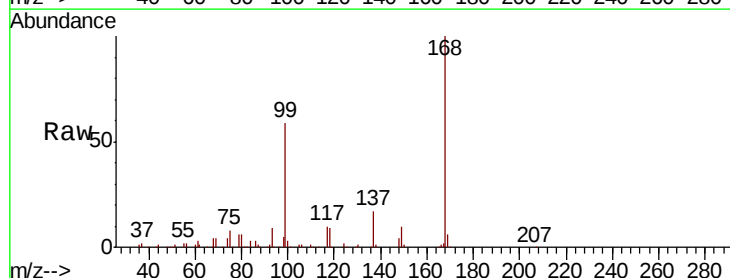
Tgt Ion: 117 Resp: 38523

Ion Ratio Lower Upper

117 100

119 4.4 75.7 113.5#

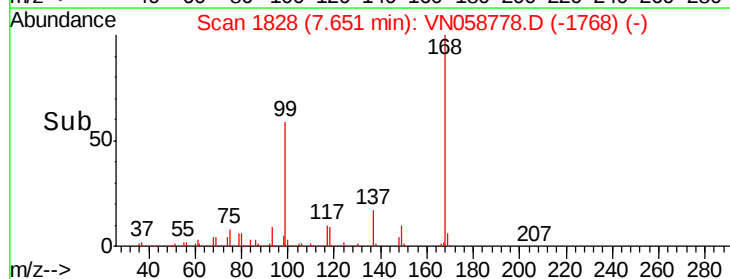
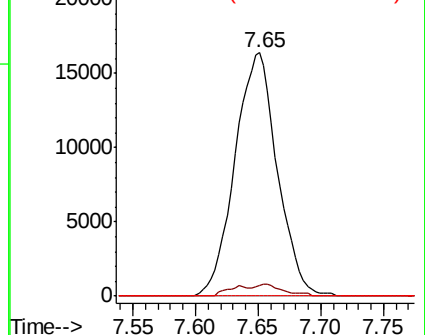
121 0.0 23.9 35.9#

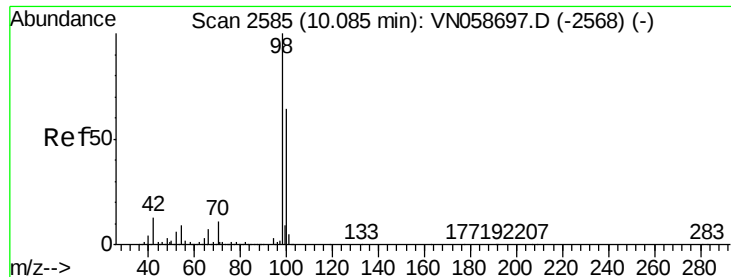


Abundance Ion 116.80 (116.50 to 117.50): VN058697.D (-1842) (-)

Ion 118.80 (118.50 to 119.50): VN058697.D (-1842) (-)

Ion 120.80 (120.50 to 121.50): VN058697.D (-1842) (-)





#50

Toluene-d8

Concen: 50.462 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058778.D

Acq: 15 Oct 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

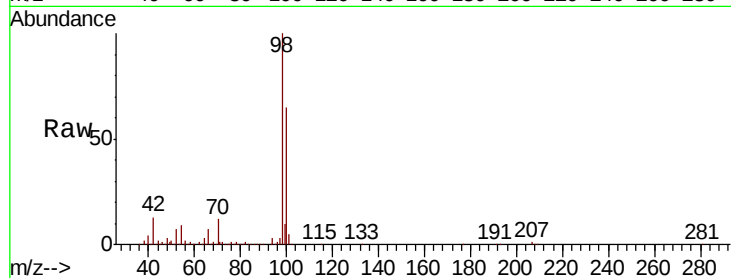
PB123965TB

Tot Ion: 98 Resp: 745198

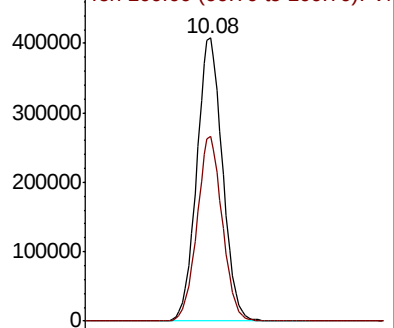
Ion Ratio Lower Upper

98 100

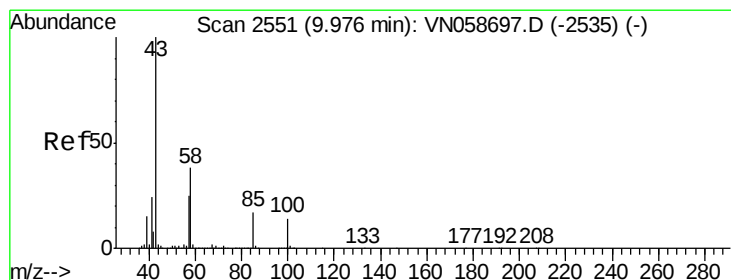
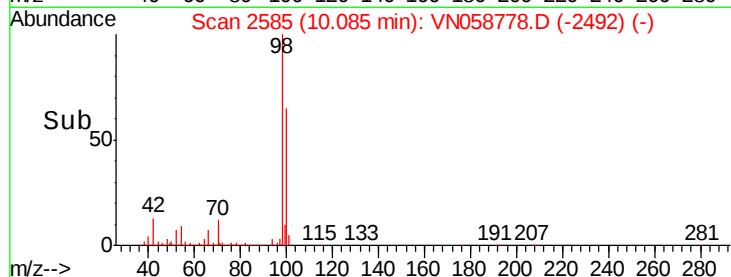
100 63.8 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN058697.D (-2568) (-)



Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.204 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.01 min

Lab File: VN058778.D

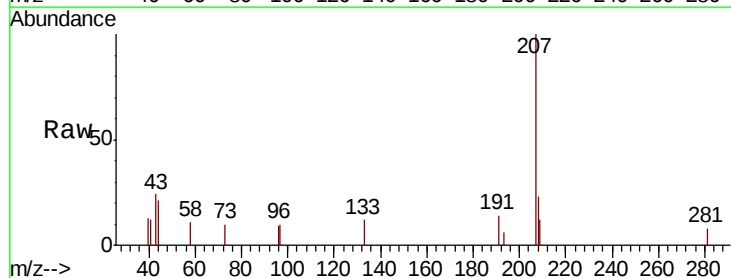
Acq: 15 Oct 2019 13:42

Tgt Ion: 43 Resp: 1196

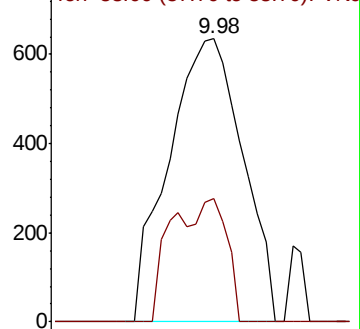
Ion Ratio Lower Upper

43 100

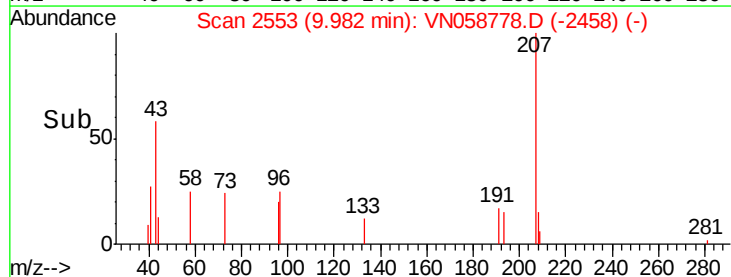
58 0.0 30.3 45.5#

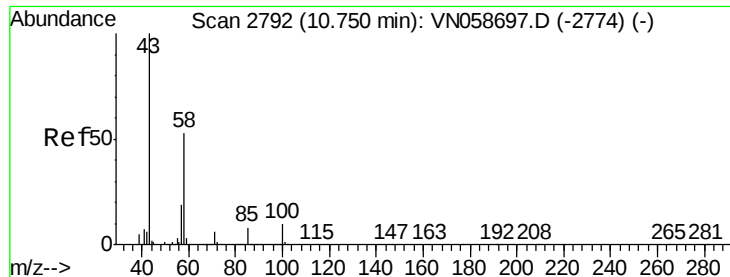


Abundance Ion 43.00 (42.70 to 43.70): VN058697.D (-2535) (-)



Time-->

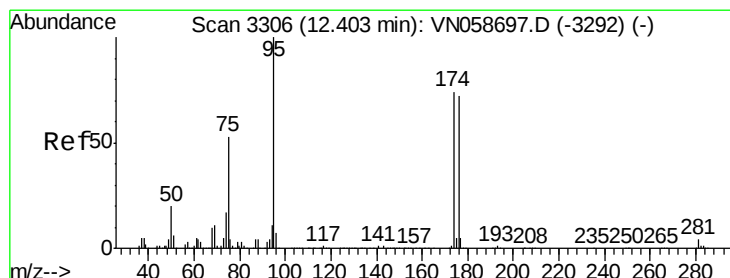
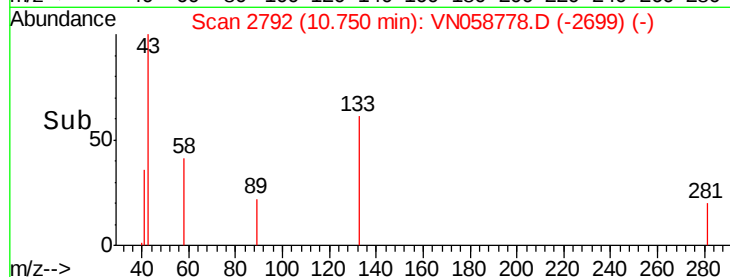
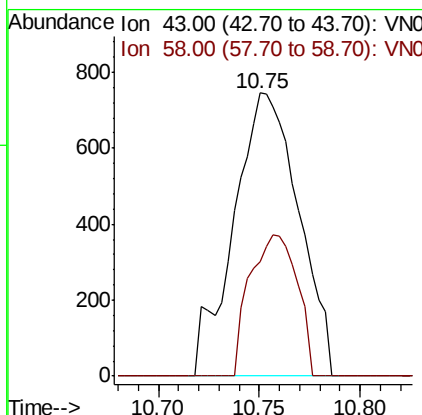
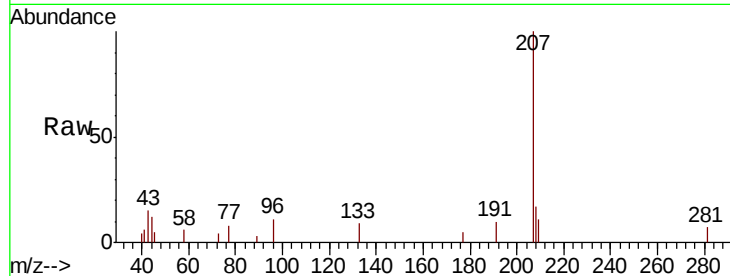




#59
2-Hexanone
Concen: 0.369 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN058778.D
Acq: 15 Oct 2019 13:42

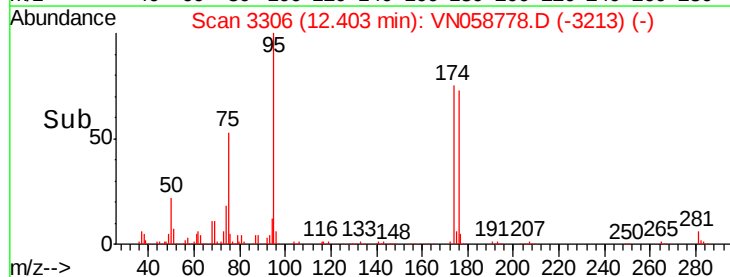
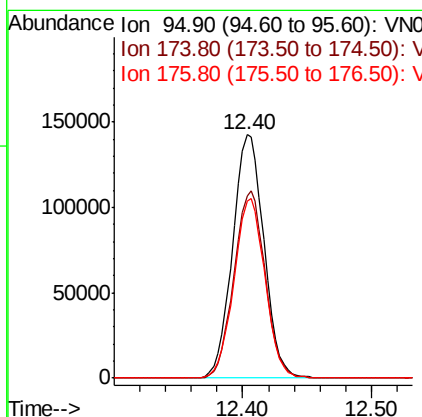
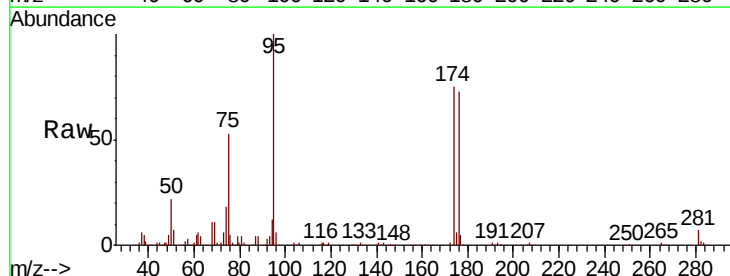
Instrument :
MSVOA_N
ClientSampled :
PB123965TB

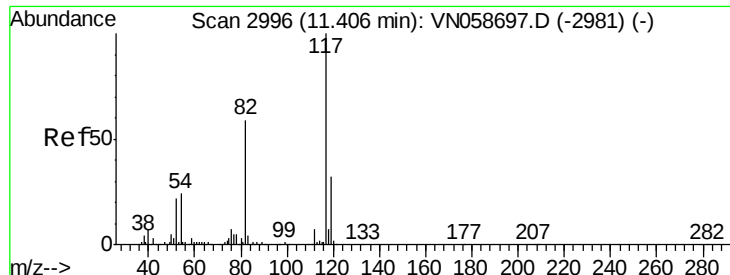
Tot Ion: 43 Resp: 1669
Ion Ratio Lower Upper
43 100
58 36.7 26.1 78.3



#62
4-Bromofluorobenzene
Concen: 42.926 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.00 min
Lab File: VN058778.D
Acq: 15 Oct 2019 13:42

Tgt Ion: 95 Resp: 239953
Ion Ratio Lower Upper
95 100
174 76.7 0.0 150.4
176 73.3 0.0 146.8

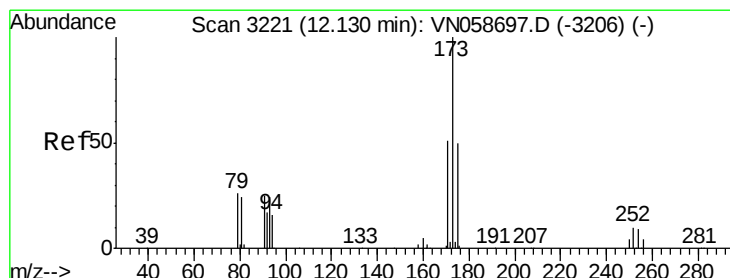
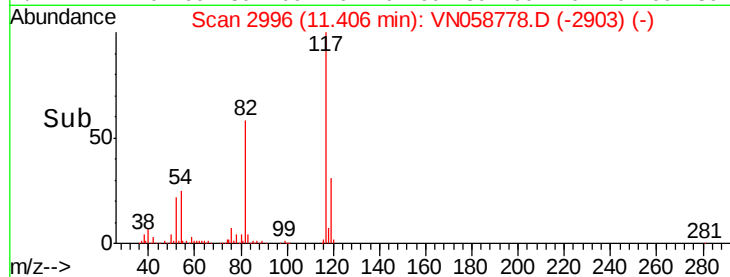
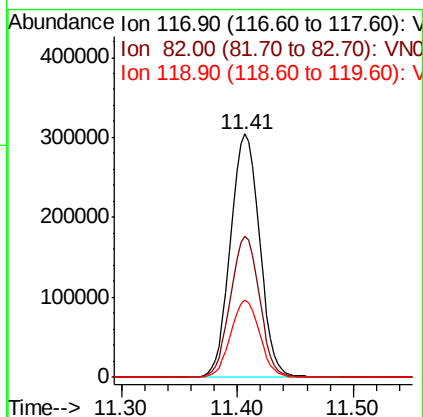
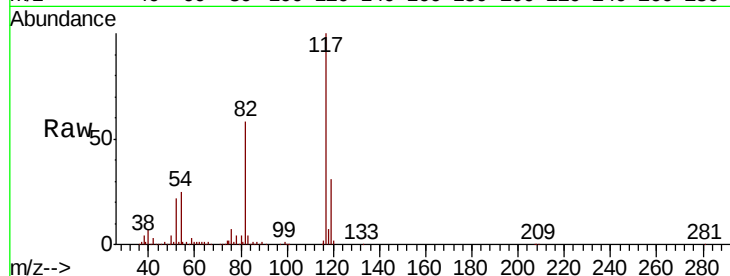




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058778.D
Acq: 15 Oct 2019 13:42

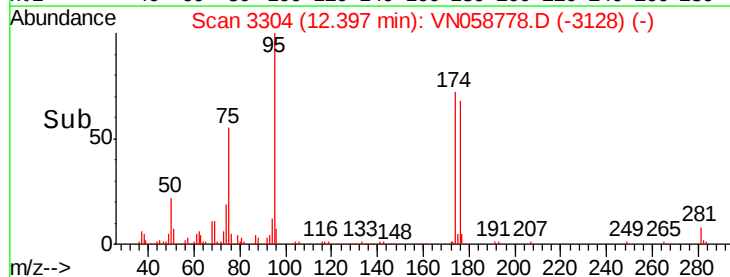
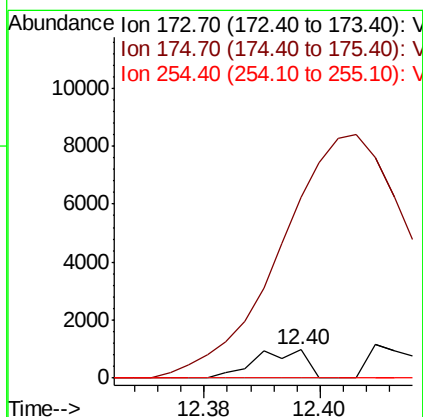
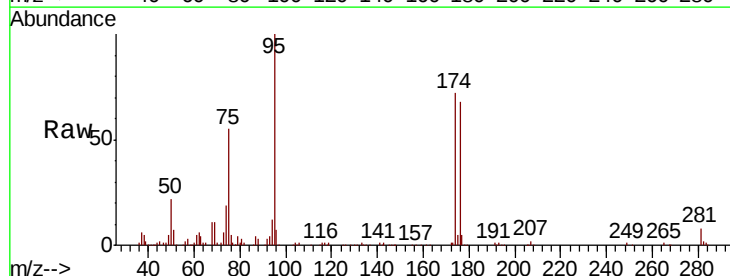
Instrument :
MSVOA_N
ClientSampleId :
PB123965TB

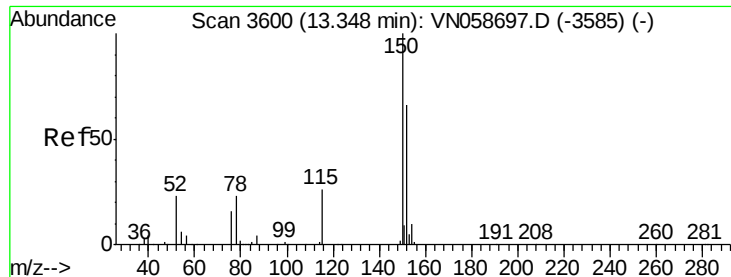
Tot Ion:117 Resp: 528802
Ion Ratio Lower Upper
117 100
82 58.1 47.0 70.4
119 31.5 25.4 38.2



#71
Bromoform
Concen: 0.204 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.27 min
Lab File: VN058778.D
Acq: 15 Oct 2019 13:42

Tgt Ion:173 Resp: 594
Ion Ratio Lower Upper
173 100
175 0.0 24.6 73.8#
254 0.0 0.1 0.1#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. -0.00 min

Lab File: VN058778.D

Acq: 15 Oct 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

PB123965TB

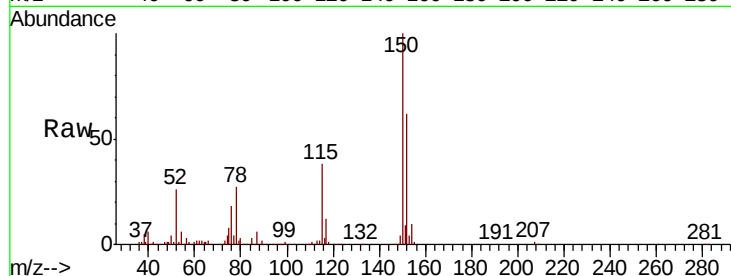
Tot Ion:152 Resp: 208592

Ion Ratio Lower Upper

152 100

115 60.0 30.4 91.2

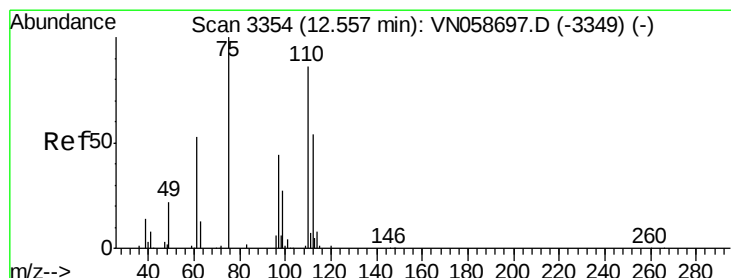
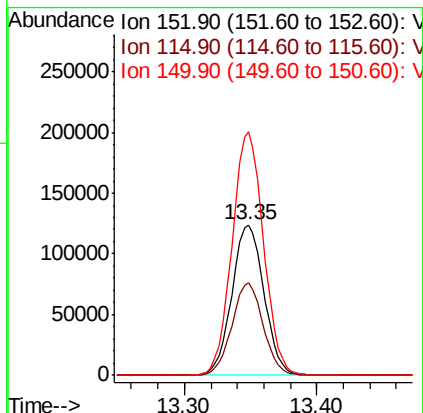
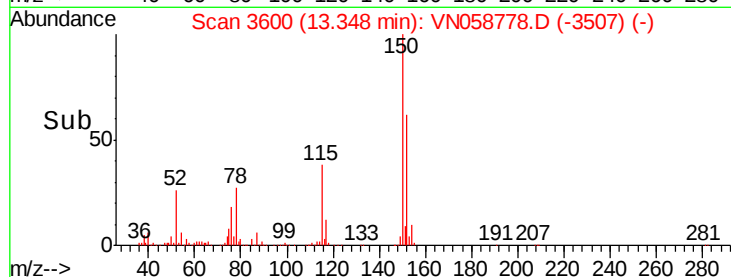
150 158.1 0.0 345.4



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: 28.722 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058778.D

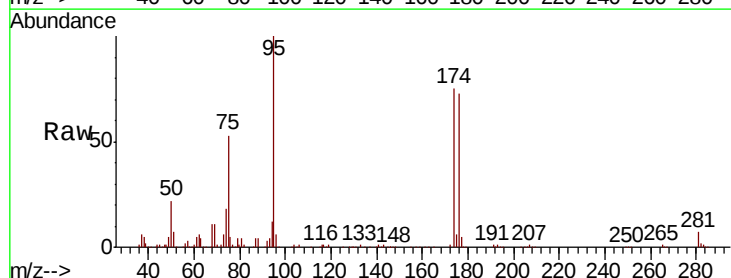
Acq: 15 Oct 2019 13:42

Tgt Ion: 75 Resp: 131433

Ion Ratio Lower Upper

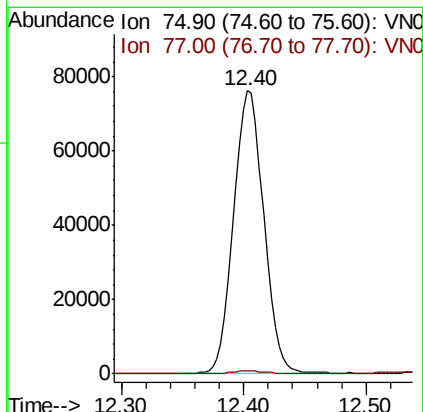
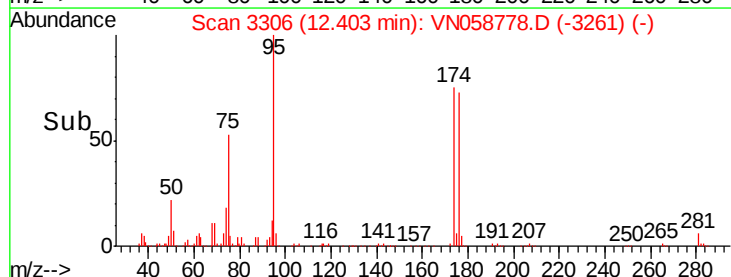
75 100

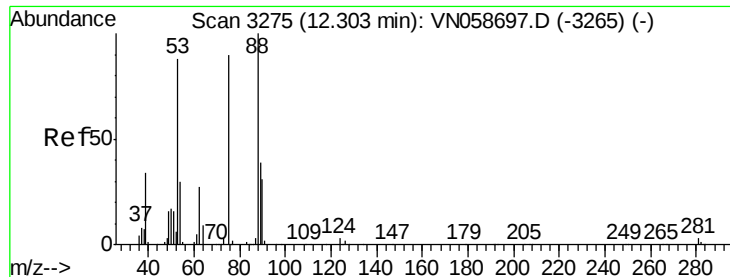
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 76.938 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058778.D

Acq: 15 Oct 2019 13:42

Instrument :

MSVOA_N

ClientSampleId :

PB123965TB

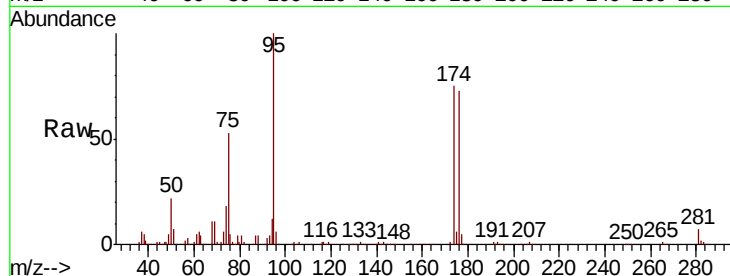
Tot Ion: 75 Resp: 131433

Ion Ratio Lower Upper

75 100

53 0.0 78.4 117.6#

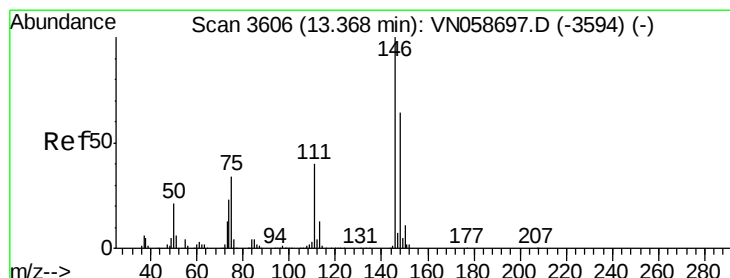
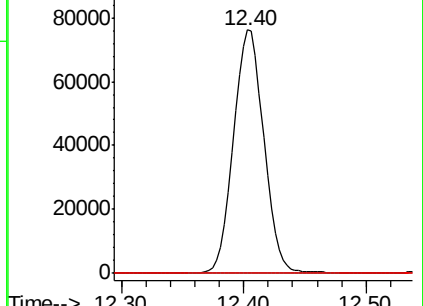
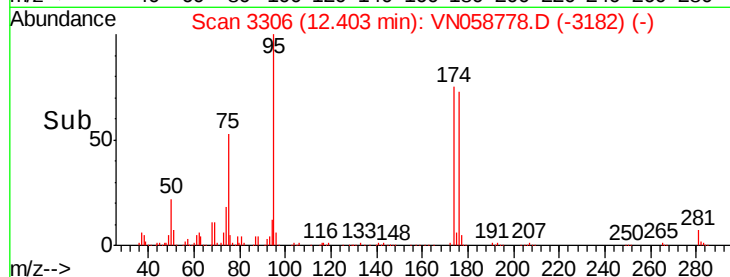
89 0.1 34.9 52.3#



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



#88

1,4-Dichlorobenzene

Concen: 0.221 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VN058778.D

Acq: 15 Oct 2019 13:42

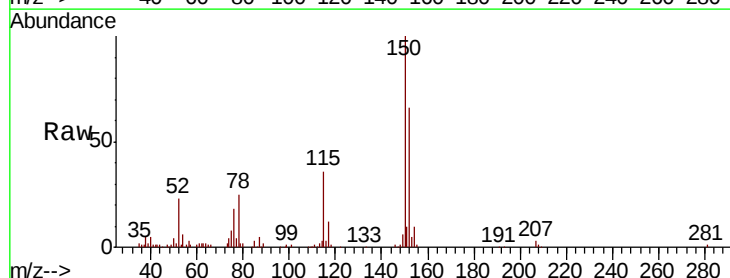
Tgt Ion: 146 Resp: 1521

Ion Ratio Lower Upper

146 100

111 229.4 20.1 60.2#

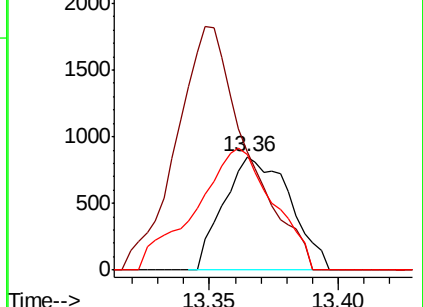
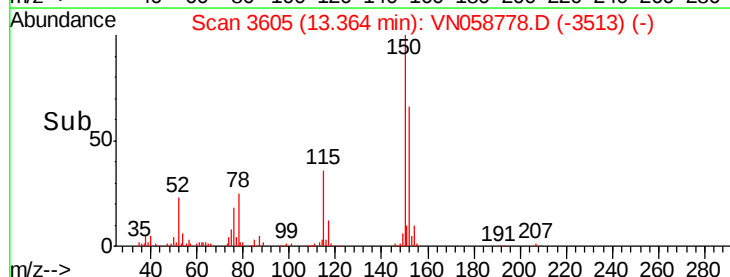
148 126.1 31.9 95.7#

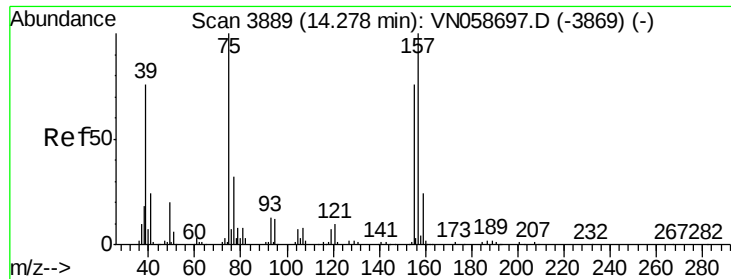


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

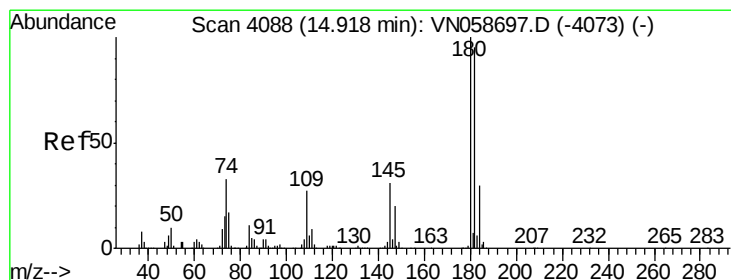
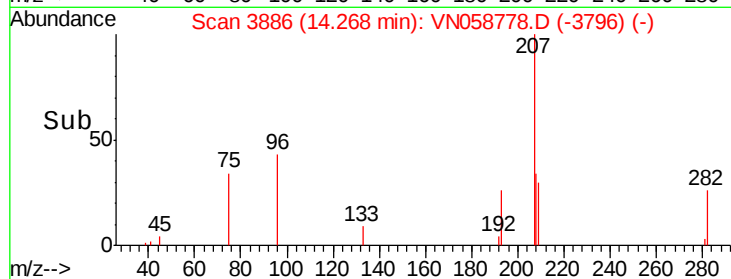
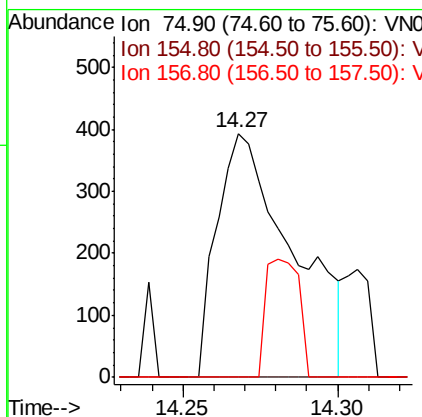
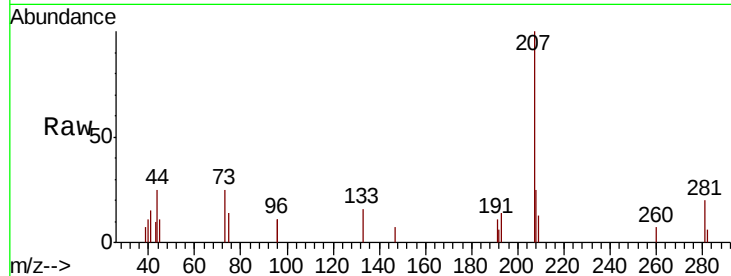




#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.576 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.01 min
 Lab File: VN058778.D
 Acq: 15 Oct 2019 13:42

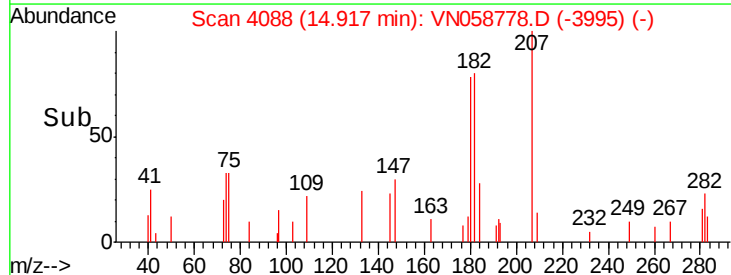
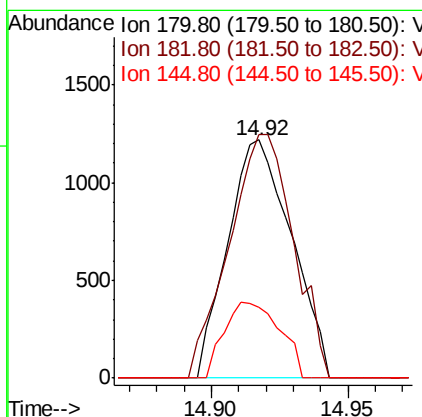
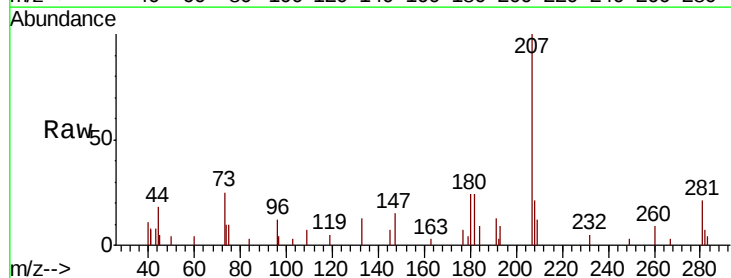
Instrument :
 MSVOA_N
 ClientSampled :
 PB123965TB

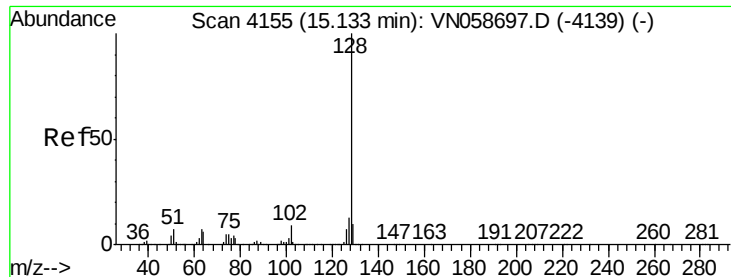
Tot Ion: 75 Resp: 670
 Ion Ratio Lower Upper
 75 100
 155 0.0 37.9 113.6#
 157 20.9 49.4 148.2#



#93
 1,2,4-Trichlorobenzene
 Concen: 0.491 ug/l
 RT: 14.92 min Scan# 4088
 Delta R.T. -0.00 min
 Lab File: VN058778.D
 Acq: 15 Oct 2019 13:42

Tgt Ion: 180 Resp: 1979
 Ion Ratio Lower Upper
 180 100
 182 103.0 47.4 142.2
 145 27.8 15.4 46.2

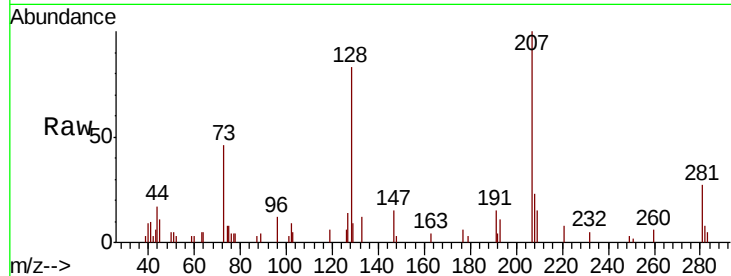




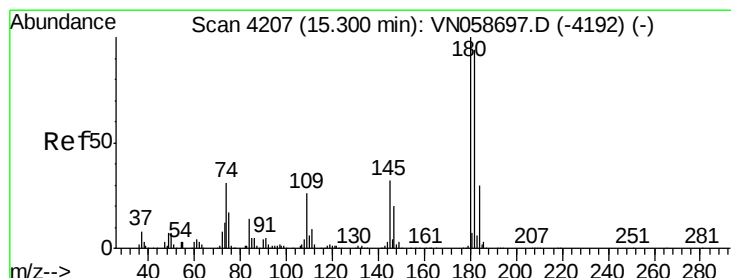
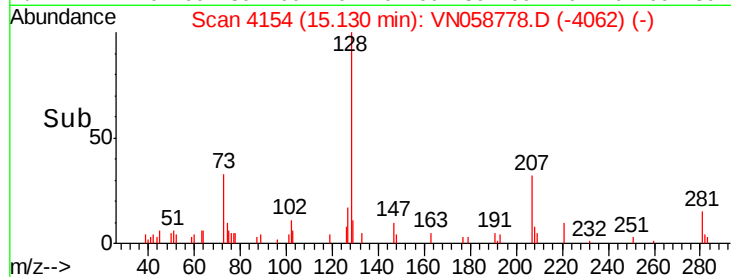
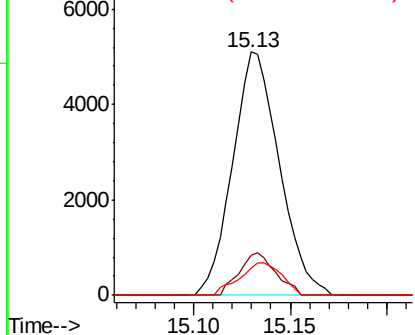
#95
Naphthalene
Concen: 0.739 ug/l
RT: 15.13 min Scan# 4154
Delta R.T. -0.00 min
Lab File: VN058778.D
Acq: 15 Oct 2019 13:42

Instrument :
MSVOA_N
ClientSampleId :
PB123965TB

Tot Ion:128 Resp: 8560
Ion Ratio Lower Upper
128 100
127 13.6 10.2 15.4
129 12.1 8.5 12.7

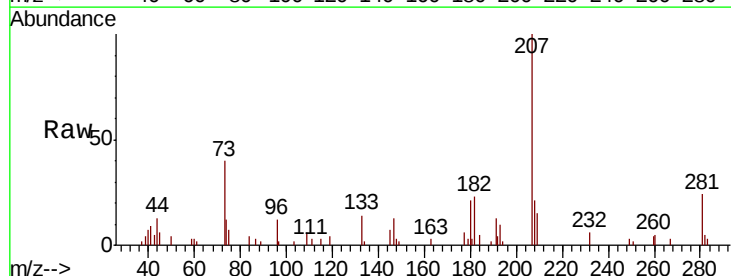


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 0.629 ug/l
RT: 15.30 min Scan# 4207
Delta R.T. -0.00 min
Lab File: VN058778.D
Acq: 15 Oct 2019 13:42

Tgt Ion:180 Resp: 2476
Ion Ratio Lower Upper
180 100
182 109.9 47.3 142.0
145 42.6 16.2 48.6



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

