

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN080919\
 Data File : VN057156.D
 Acq On : 9 Aug 2019 19:11
 Operator : JC/SP
 Sample : K4290-06
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WP-1

Quant Time: Aug 10 02:14:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080719W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 08 06:49:25 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.05	168	1304531	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.01	114	1801737	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.91	117	1475736	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.88	152	348536	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.44	65	606240	45.19	ug/l	0.00
Spiked Amount			Recovery	=	90.38%	
35) Dibromofluoromethane	6.99	113	543427	48.06	ug/l	0.00
Spiked Amount			Recovery	=	96.12%	
50) Toluene-d8	9.56	98	2086852	48.24	ug/l	0.00
Spiked Amount			Recovery	=	96.48%	
62) 4-Bromofluorobenzene	11.92	95	529810	38.01	ug/l	0.00
Spiked Amount			Recovery	=	76.02%	

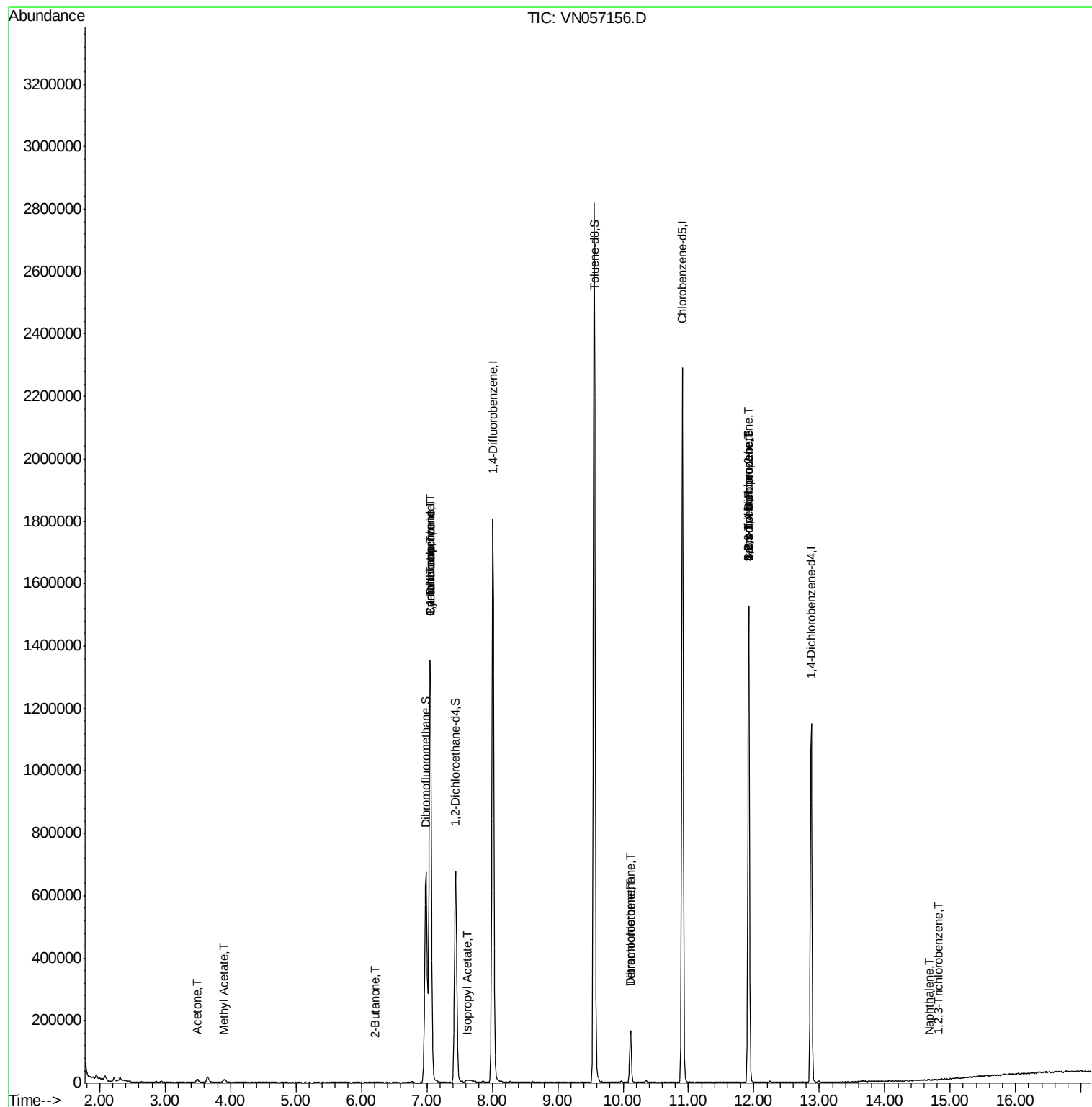
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.48	43	14418	3.559	ug/l	99
18) Methyl Acetate	3.90	43	19093	0.937	ug/l #	76
25) 2-Butanone	6.22	43	1874	0.303	ug/l #	47
31) Cyclohexane	7.05	56	19606	1.007	ug/l #	1
36) 1,1-Dichloropropene	7.05	75	79016	5.326	ug/l #	49
37) Ethyl Acetate	6.32	43	96	Below Cal	#	70
38) Carbon Tetrachloride	7.05	117	111947	7.241	ug/l #	17
43) Isopropyl Acetate	7.61	43	4701	0.225	ug/l #	51
60) Dibromochloromethane	10.11	129	32768	2.722	ug/l #	11
64) Tetrachloroethene	10.11	164	43723	3.563	ug/l	94
71) Bromoform	11.92	173	4124	0.507	ug/l #	1
73) Isopropylbenzene	11.76	105	60	Below Cal	#	48
75) 1,1,2,2-Tetrachloroethane	12.20	83	30	Below Cal	#	25
76) 1,2,3-Trichloropropane	11.92	75	248245	35.641	ug/l #	100
79) 2-Chlorotoluene	12.12	91	392	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	11.92	75	248245	104.726	ug/l #	14
83) tert-Butylbenzene	12.75	119	65	Below Cal	#	28
95) Naphthalene	14.67	128	117	2.815	ug/l #	69
96) 1,2,3-Trichlorobenzene	14.83	180	112	5.740	ug/l #	34

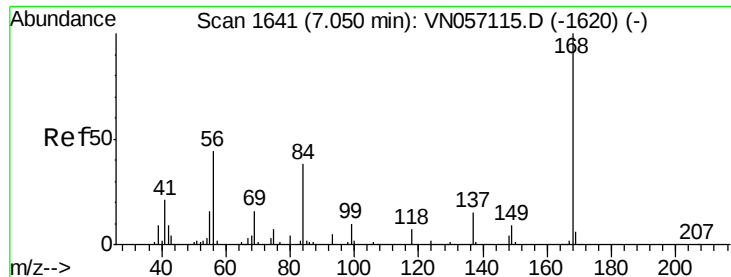
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 1642

Delta R.T. 0.00 min

Lab File: VN057156.D

Acq: 9 Aug 2019 19:11

Instrument :

MSVOA_N

ClientSampleId :

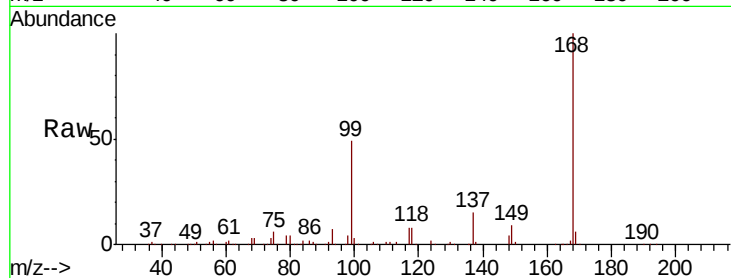
WP-1

Tgt Ion:168 Resp: 1304531

Ion Ratio Lower Upper

168 100

99 48.5 38.6 57.8



Abundance Ion 167.90 (167.60 to 168.60): VN057115.D (-1620) (-)

Ion 98.90 (98.60 to 99.60): VN057115.D (-1620) (-)

7.05

600000

500000

400000

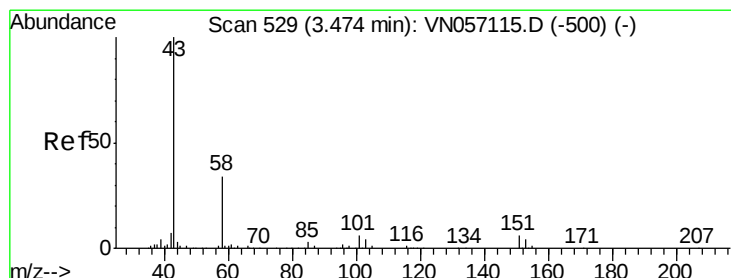
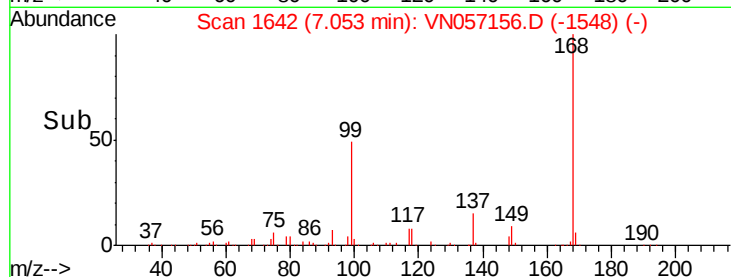
300000

200000

100000

0

Time--> 6.90 7.00 7.10 7.20



#16

Acetone

Concen: 3.559 ug/l

RT: 3.48 min Scan# 531

Delta R.T. 0.01 min

Lab File: VN057156.D

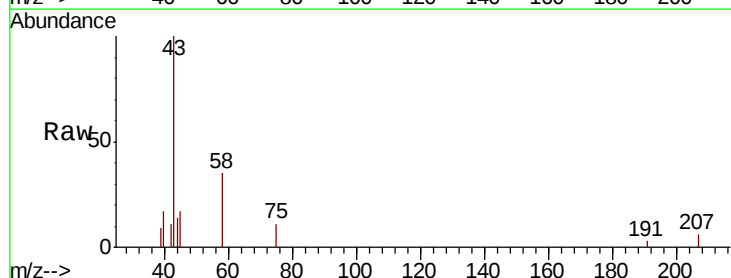
Acq: 9 Aug 2019 19:11

Tgt Ion: 43 Resp: 14418

Ion Ratio Lower Upper

43 100

58 35.1 27.4 41.2



Abundance Ion 43.00 (42.70 to 43.70): VN057115.D (-500) (-)

Ion 58.00 (57.70 to 58.70): VN057115.D (-500) (-)

3.48

6000

5000

4000

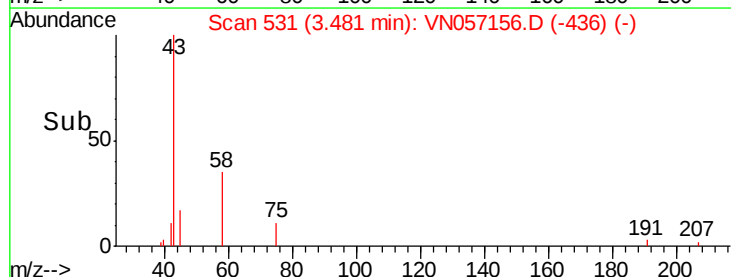
3000

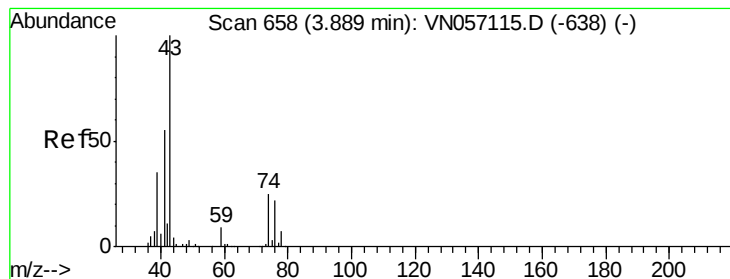
2000

1000

0

Time--> 3.40 3.45 3.50 3.55





#18

Methyl Acetate

Concen: 0.937 ug/l

RT: 3.90 min Scan# 662

Delta R.T. 0.01 min

Lab File: VN057156.D

Acq: 9 Aug 2019 19:11

Instrument :

MSVOA_N

ClientSampleId :

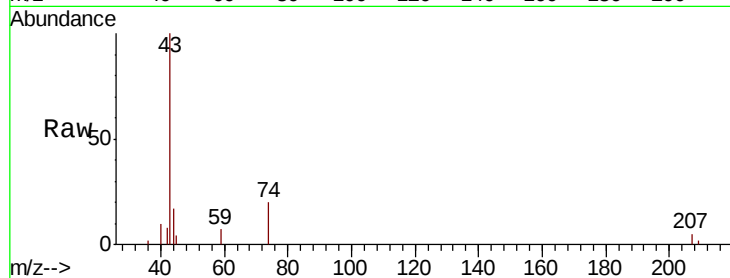
WP-1

Tgt Ion: 43 Resp: 19093

Ion Ratio Lower Upper

43 100

74 13.1 20.2 30.4#



Abundance Ion 43.00 (42.70 to 43.70): VN057115.D (-638) (-)

Ion 74.00 (73.70 to 74.70): VN057115.D (-638) (-)

3.90

6000

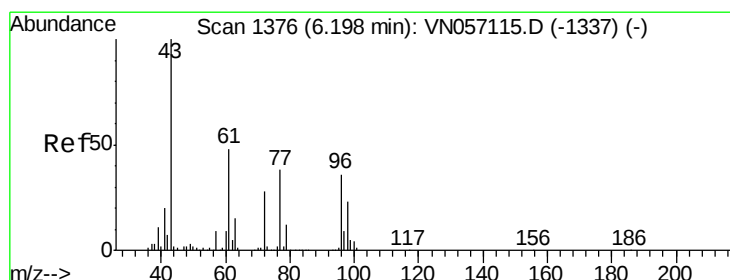
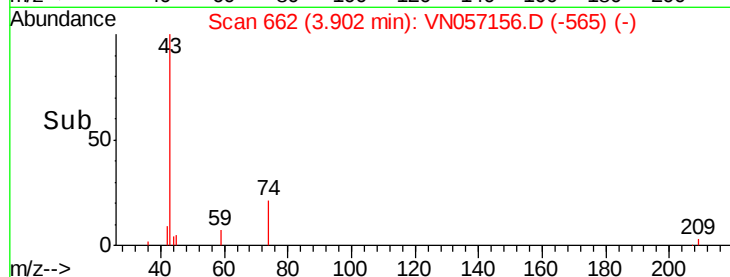
4000

2000

0

Time-->

3.80 3.85 3.90 3.95 4.00



#25

2-Butanone

Concen: 0.303 ug/l

RT: 6.22 min Scan# 1383

Delta R.T. 0.02 min

Lab File: VN057156.D

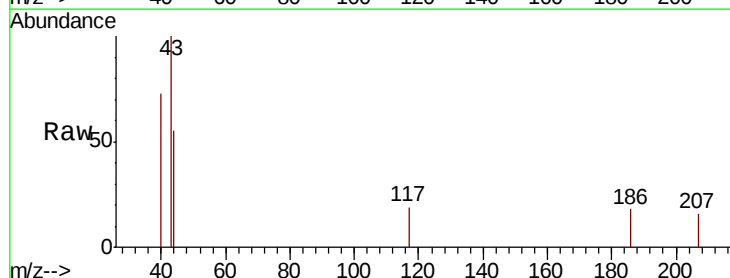
Acq: 9 Aug 2019 19:11

Tgt Ion: 43 Resp: 1874

Ion Ratio Lower Upper

43 100

72 0.0 22.2 33.4#



Abundance Ion 43.00 (42.70 to 43.70): VN057115.D (-1337) (-)

Ion 72.00 (71.70 to 72.70): VN057115.D (-1337) (-)

6.22

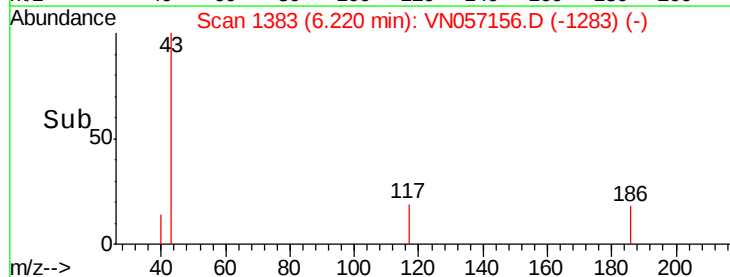
1000

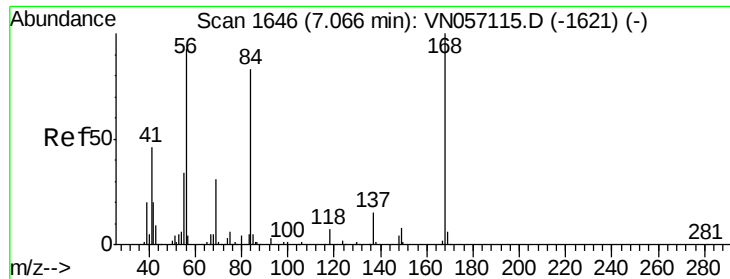
500

0

Time-->

6.15 6.20 6.25

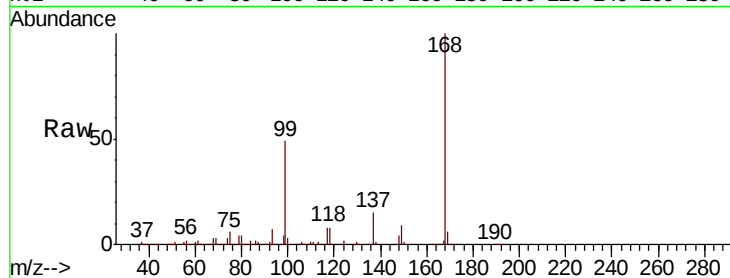




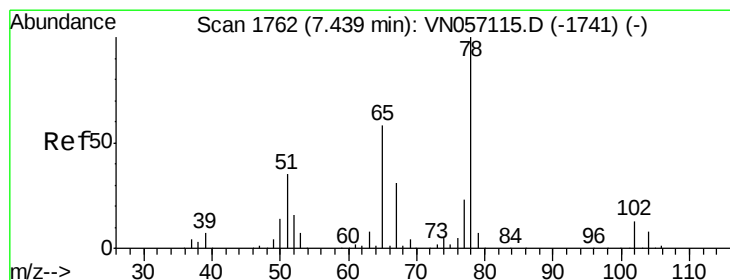
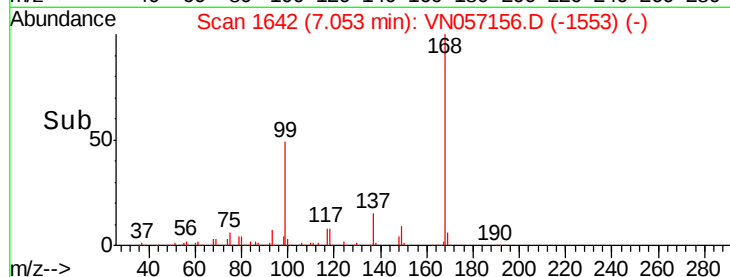
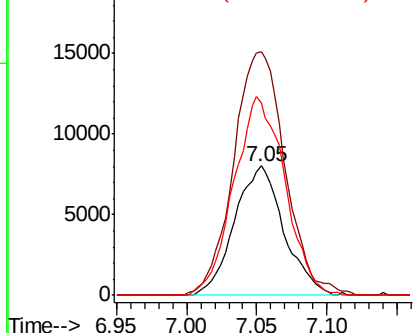
#31
Cyclohexane
Concen: 1.007 ug/l
RT: 7.05 min Scan# 1642
Delta R.T. -0.01 min
Lab File: VN057156.D
Acq: 9 Aug 2019 19:11

Instrument :
MSVOA_N
ClientSampled :
WP-1

Tgt Ion: 56 Resp: 19606
Ion Ratio Lower Upper
56 100
69 186.2 26.9 40.3#
84 148.6 71.9 107.9#

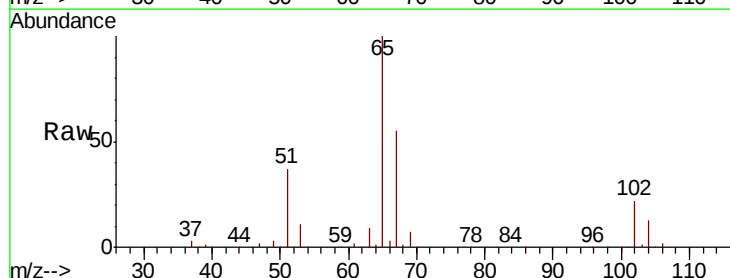


Abundance Ion 56.00 (55.70 to 56.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 84.00 (83.70 to 84.70): VNC

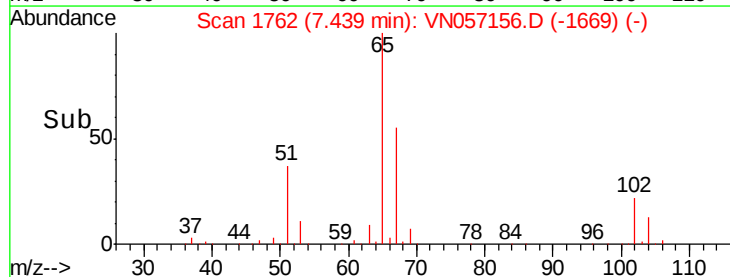
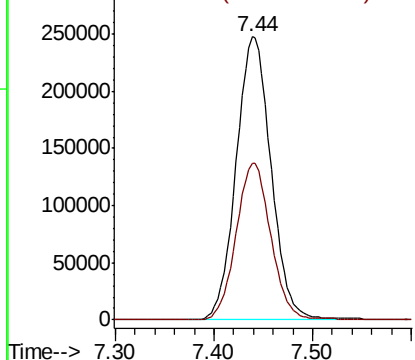


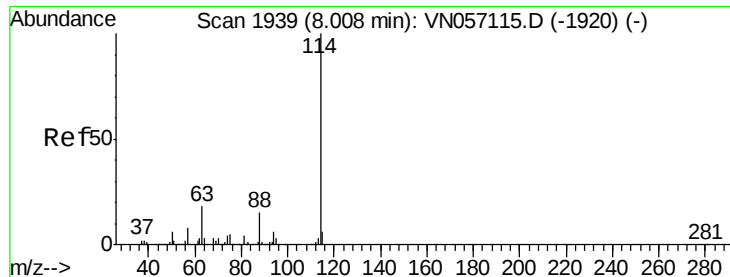
#33
1,2-Dichloroethane-d4
Concen: 45.187 ug/l
RT: 7.44 min Scan# 1762
Delta R.T. 0.00 min
Lab File: VN057156.D
Acq: 9 Aug 2019 19:11

Tgt Ion: 65 Resp: 606240
Ion Ratio Lower Upper
65 100
67 54.8 0.0 108.2



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

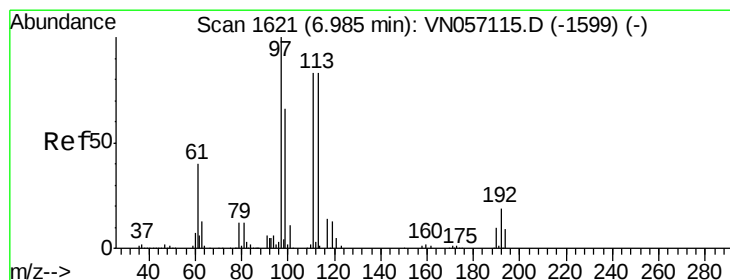
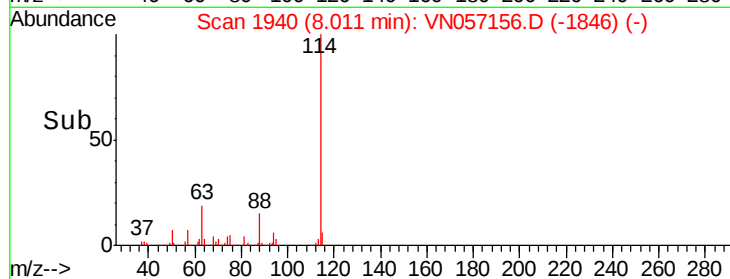
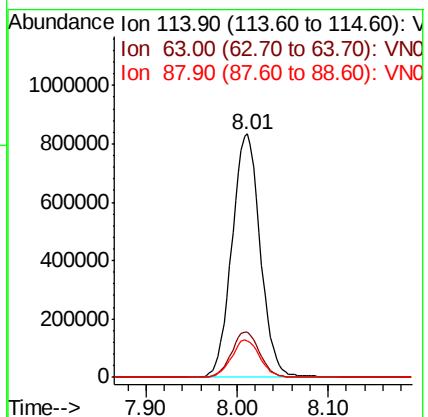
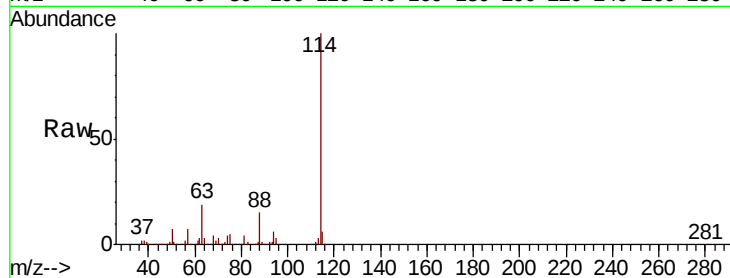




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. 0.00 min
 Lab File: VN057156.D
 Acq: 9 Aug 2019 19:11

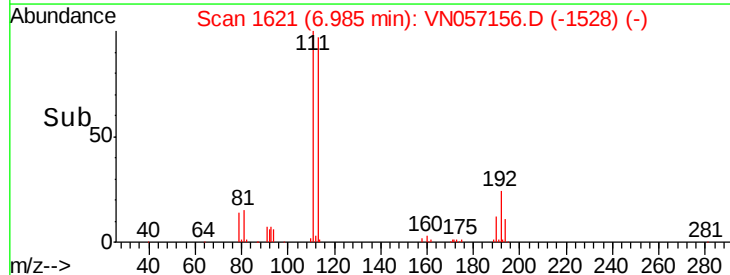
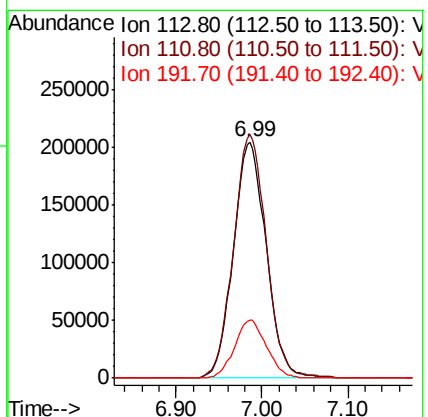
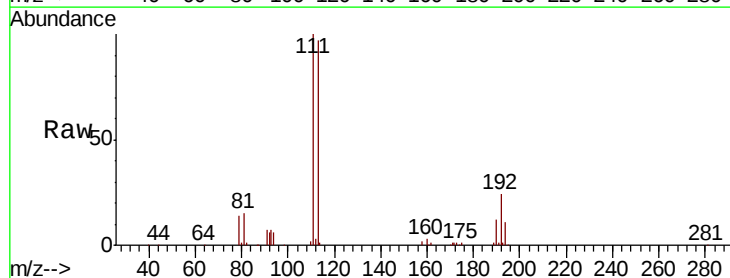
Instrument :
 MSVOA_N
 ClientSampled :
 WP-1

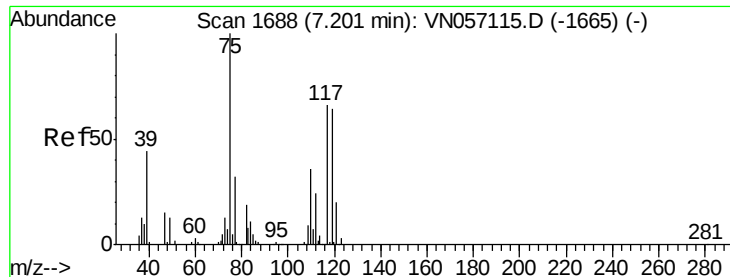
Tgt Ion:114 Resp: 1801737
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 36.2
 88 14.9 0.0 30.0



#35
 Dibromofluoromethane
 Concen: 48.065 ug/l
 RT: 6.99 min Scan# 1621
 Delta R.T. 0.00 min
 Lab File: VN057156.D
 Acq: 9 Aug 2019 19:11

Tgt Ion:113 Resp: 543427
 Ion Ratio Lower Upper
 113 100
 111 103.2 81.3 121.9
 192 24.0 19.0 28.4





#36

1,1-Dichloropropene

Concen: 5.326 ug/l

RT: 7.05 min Scan# 1642

Delta R.T. -0.15 min

Lab File: VN057156.D

Acq: 9 Aug 2019 19:11

Instrument :

MSVOA_N

ClientSampleId :

WP-1

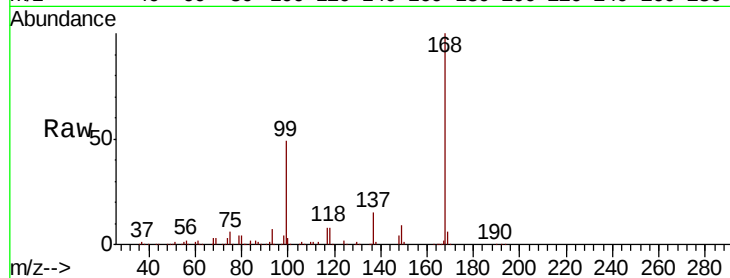
Tgt Ion: 75 Resp: 79016

Ion Ratio Lower Upper

75 100

110 9.3 18.7 56.1#

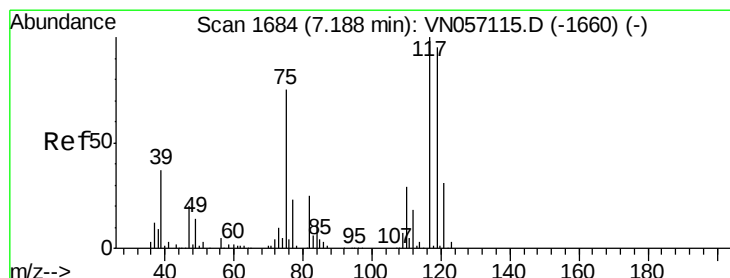
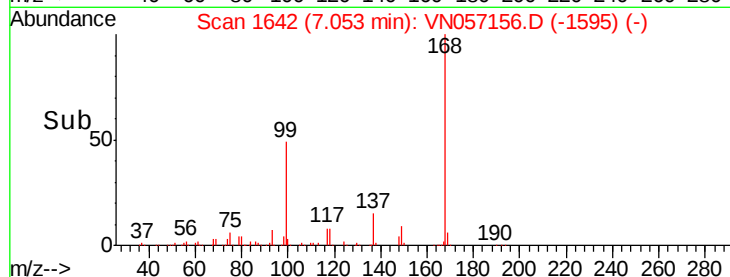
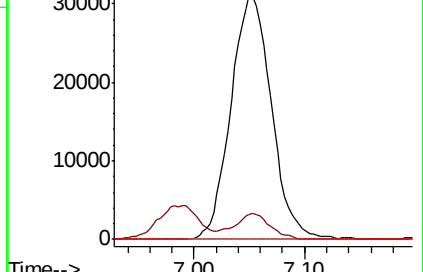
77 0.0 25.0 37.4#



Abundance Ion 74.90 (74.60 to 75.60): VN057115.D (-1665) (-)

Ion 109.90 (109.60 to 110.60): VN057115.D (-1665) (-)

Ion 76.90 (76.60 to 77.60): VN057115.D (-1665) (-)



#38

Carbon Tetrachloride

Concen: 7.241 ug/l

RT: 7.05 min Scan# 1642

Delta R.T. -0.14 min

Lab File: VN057156.D

Acq: 9 Aug 2019 19:11

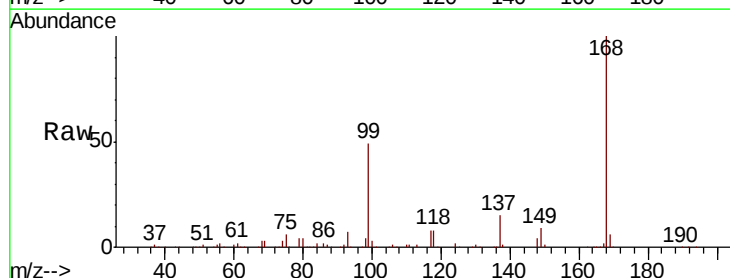
Tgt Ion: 117 Resp: 111947

Ion Ratio Lower Upper

117 100

119 5.1 75.8 113.6#

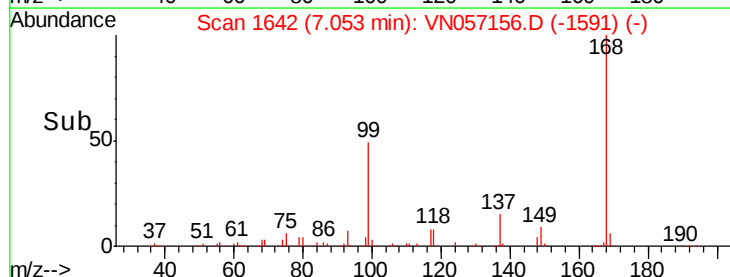
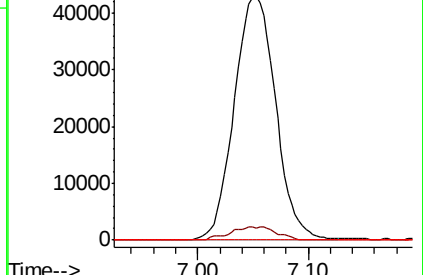
121 0.0 24.4 36.6#

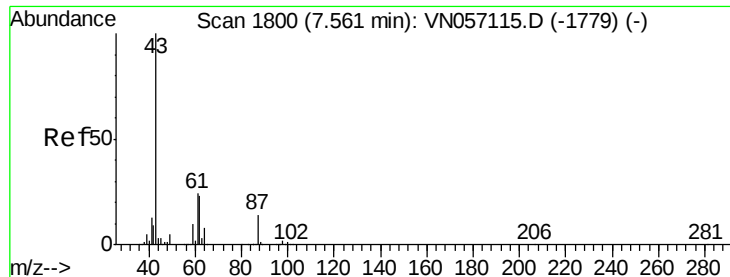


Abundance Ion 116.80 (116.50 to 117.50): VN057115.D (-1660) (-)

Ion 118.80 (118.50 to 119.50): VN057115.D (-1660) (-)

Ion 120.80 (120.50 to 121.50): VN057115.D (-1660) (-)





#43

Isopropyl Acetate

Concen: 0.225 ug/l

RT: 7.61 min Scan# 1816

Delta R.T. 0.05 min

Lab File: VN057156.D

Acq: 9 Aug 2019 19:11

Instrument :

MSVOA_N

ClientSampleId :

WP-1

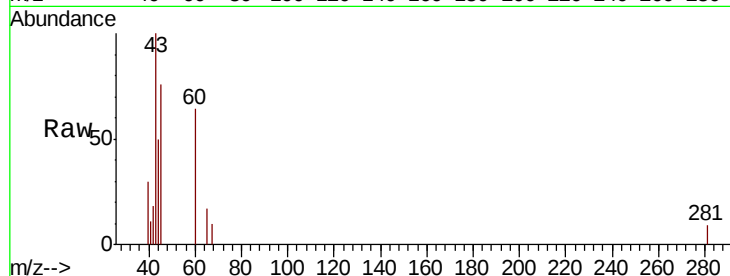
Tgt Ion: 43 Resp: 4701

Ion Ratio Lower Upper

43 100

61 0.0 24.2 36.2#

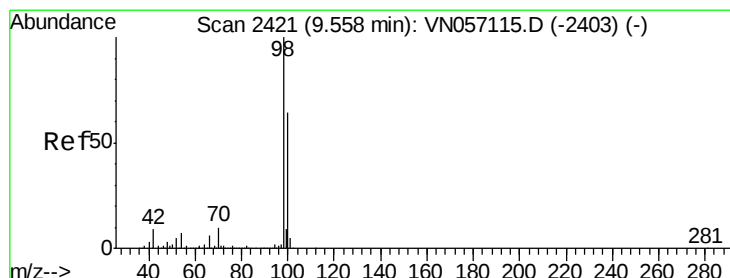
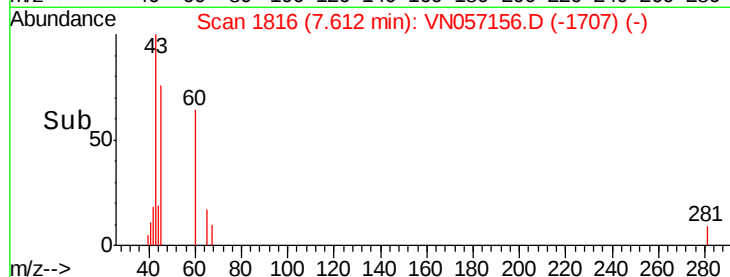
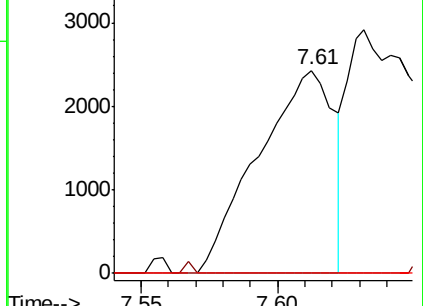
87 0.0 11.8 17.8#



Abundance Ion 43.00 (42.70 to 43.70): VN057115.D (-1779) (-)

Ion 61.00 (60.70 to 61.70): VN057115.D (-1779) (-)

Ion 87.00 (86.70 to 87.70): VN057115.D (-1779) (-)



#50

Toluene-d8

Concen: 48.245 ug/l

RT: 9.56 min Scan# 2421

Delta R.T. 0.00 min

Lab File: VN057156.D

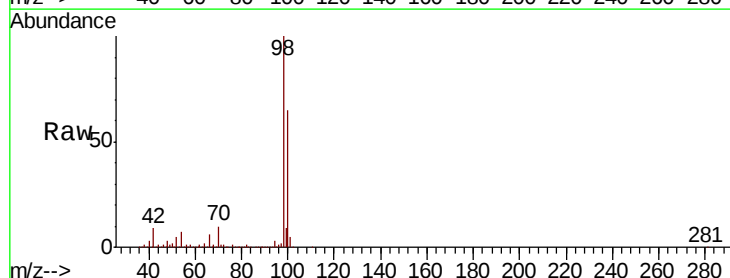
Acq: 9 Aug 2019 19:11

Tgt Ion: 98 Resp: 2086852

Ion Ratio Lower Upper

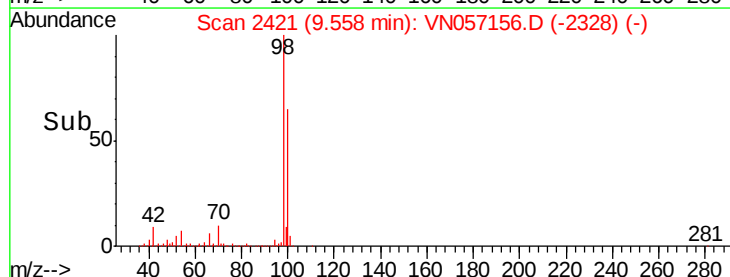
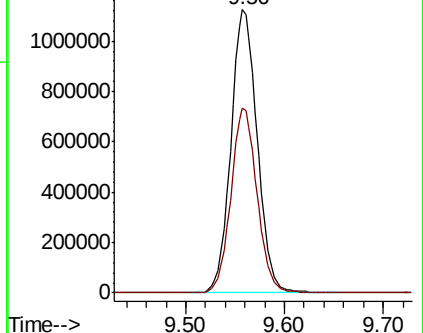
98 100

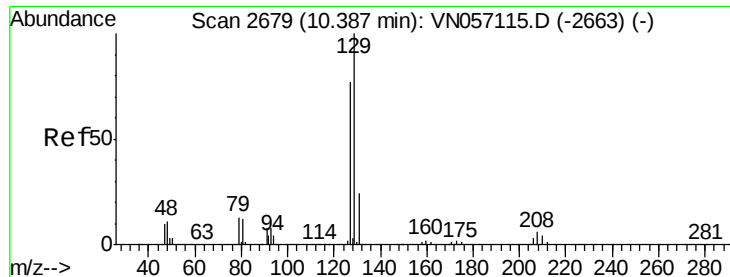
100 64.8 51.2 76.8



Abundance Ion 98.00 (97.70 to 98.70): VN057115.D (-2403) (-)

Ion 100.00 (99.70 to 100.70): VN057115.D (-2403) (-)

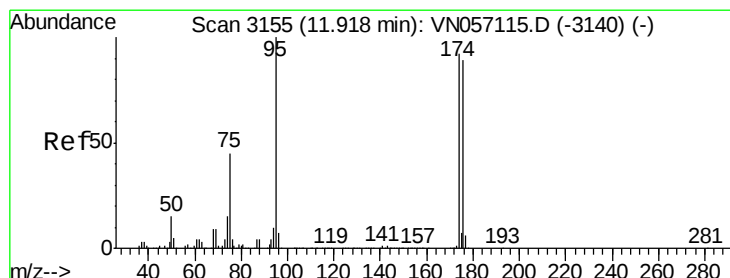
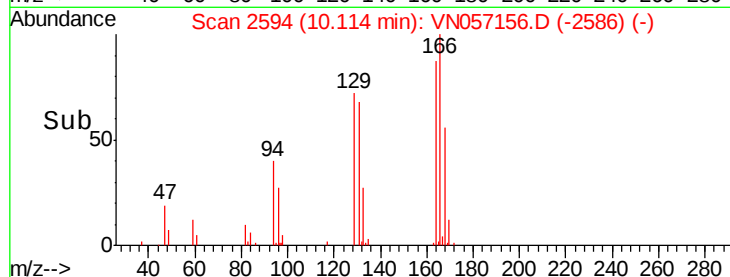
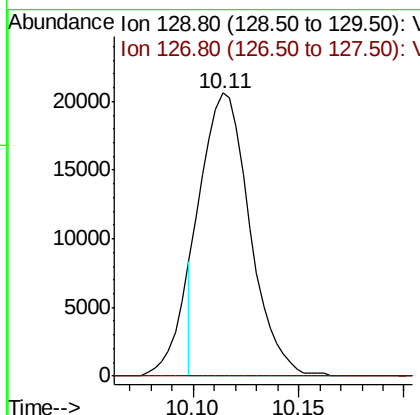
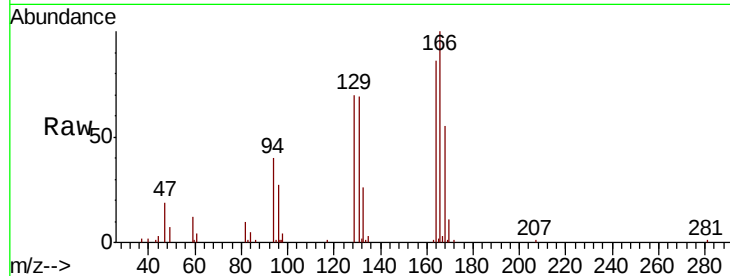




#60
 Dibromochloromethane
 Concen: 2.722 ug/l
 RT: 10.11 min Scan# 2594
 Delta R.T. -0.27 min
 Lab File: VN057156.D
 Acq: 9 Aug 2019 19:11

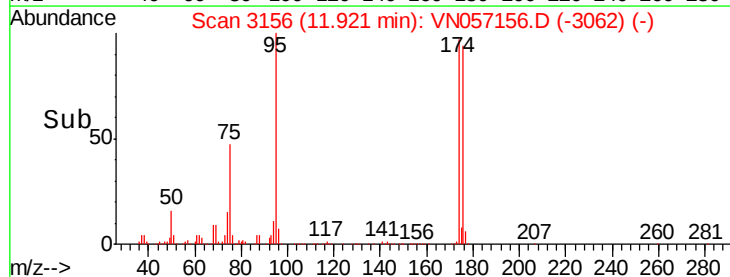
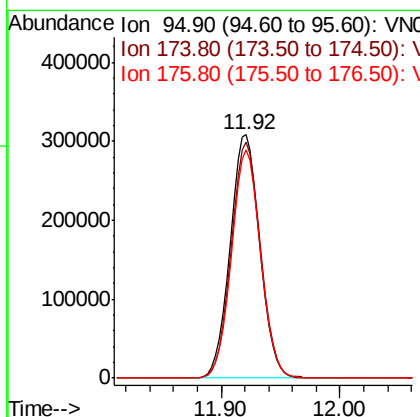
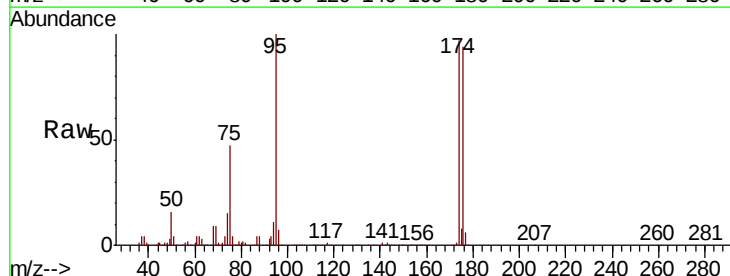
Instrument :
 MSVOA_N
 ClientSampleId :
 WP-1

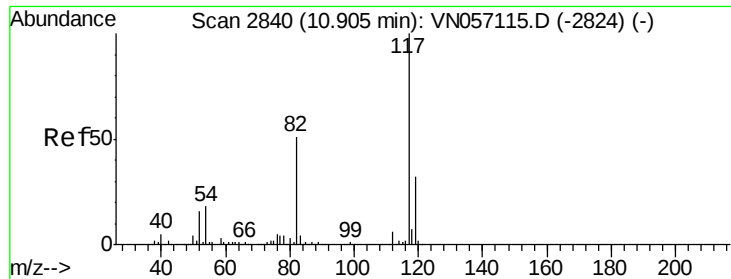
Tgt Ion: 129 Resp: 32768
 Ion Ratio Lower Upper
 129 100
 127 0.0 38.6 116.0#



#62
 4-Bromofluorobenzene
 Concen: 38.014 ug/l
 RT: 11.92 min Scan# 3156
 Delta R.T. 0.00 min
 Lab File: VN057156.D
 Acq: 9 Aug 2019 19:11

Tgt Ion: 95 Resp: 529810
 Ion Ratio Lower Upper
 95 100
 174 95.8 0.0 185.0
 176 92.1 0.0 181.2

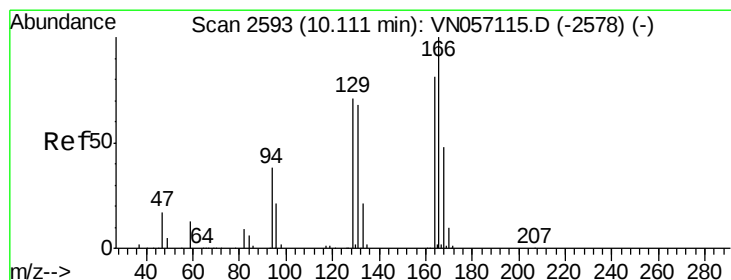
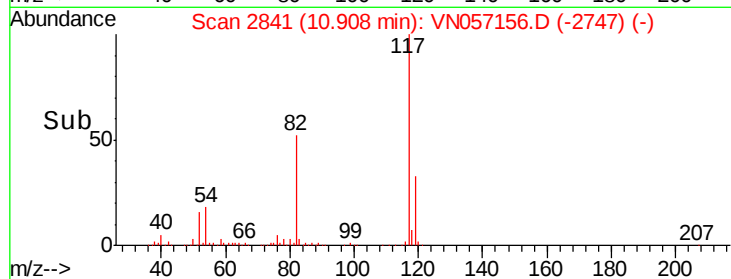
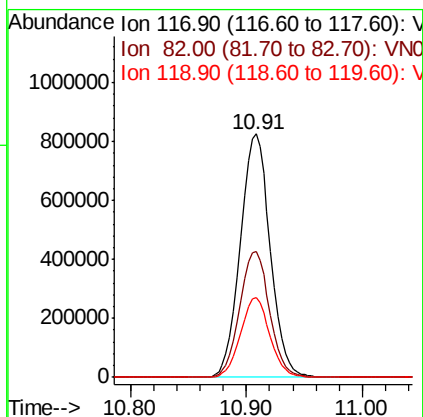
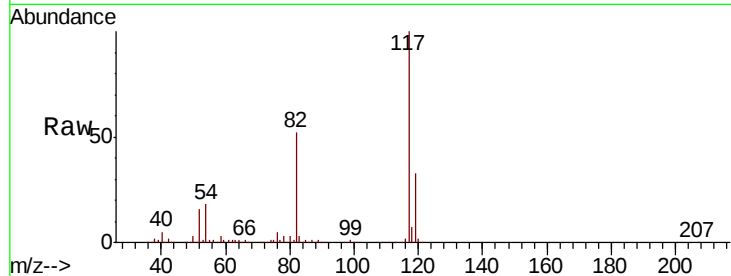




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.91 min Scan# 2841
Delta R.T. 0.00 min
Lab File: VN057156.D
Acq: 9 Aug 2019 19:11

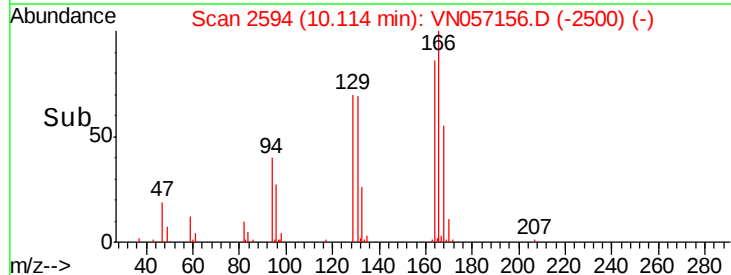
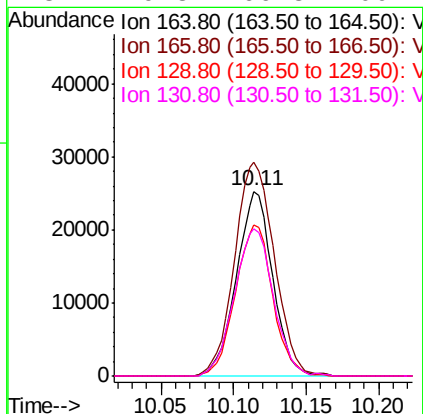
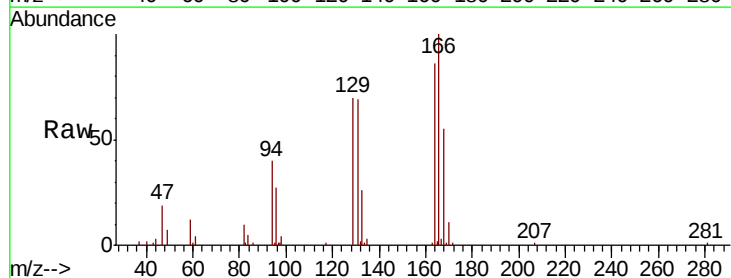
Instrument :
MSVOA_N
ClientSampled :
WP-1

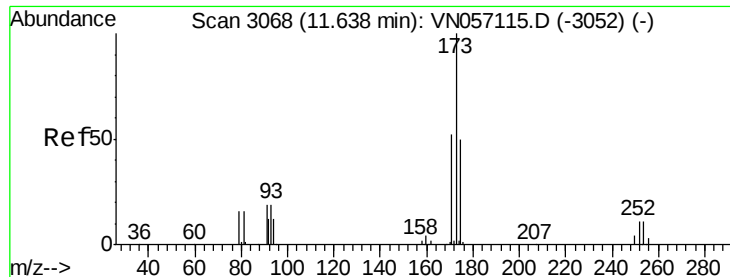
Tgt Ion:117 Resp: 1475736
Ion Ratio Lower Upper
117 100
82 51.5 40.8 61.2
119 32.6 25.7 38.5



#64
Tetrachloroethene
Concen: 3.563 ug/l
RT: 10.11 min Scan# 2594
Delta R.T. 0.00 min
Lab File: VN057156.D
Acq: 9 Aug 2019 19:11

Tgt Ion:164 Resp: 43723
Ion Ratio Lower Upper
164 100
166 115.7 98.3 147.5
129 81.5 69.8 104.6
131 79.8 66.8 100.2

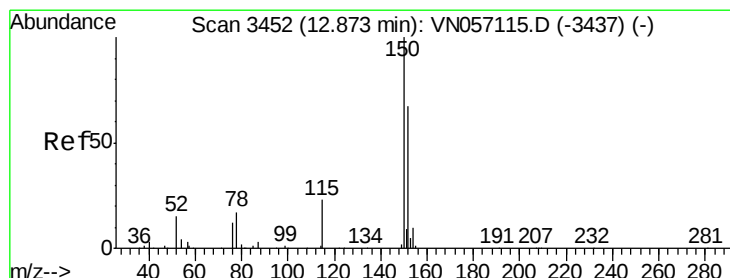
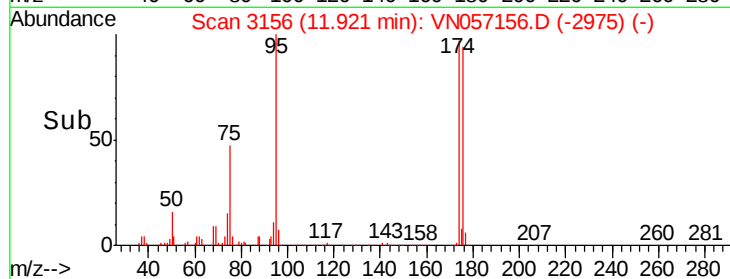
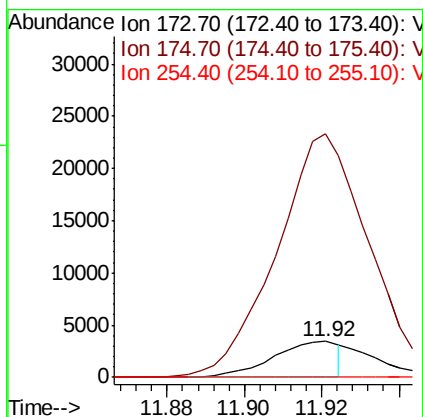
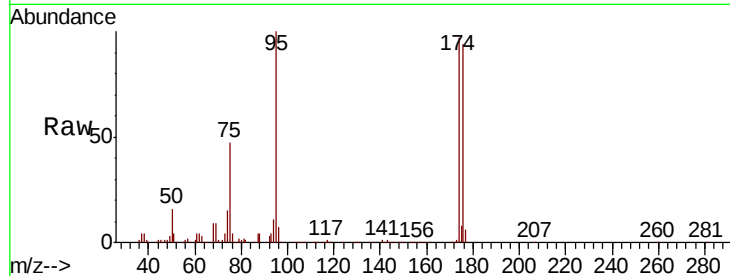




#71
Bromoform
Concen: 0.507 ug/l
RT: 11.92 min Scan# 3156
Delta R.T. 0.28 min
Lab File: VN057156.D
Acq: 9 Aug 2019 19:11

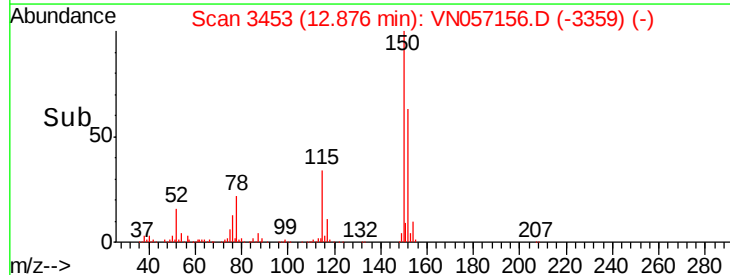
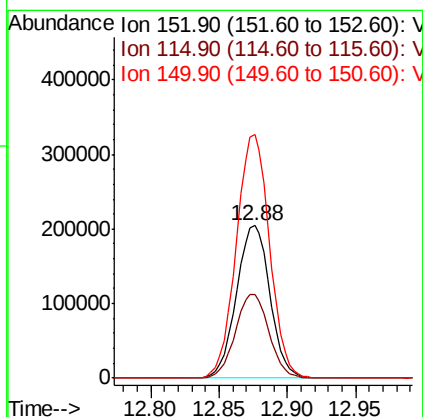
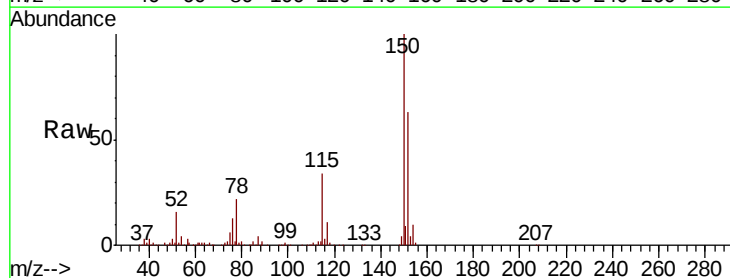
Instrument :
MSVOA_N
ClientSampleId :
WP-1

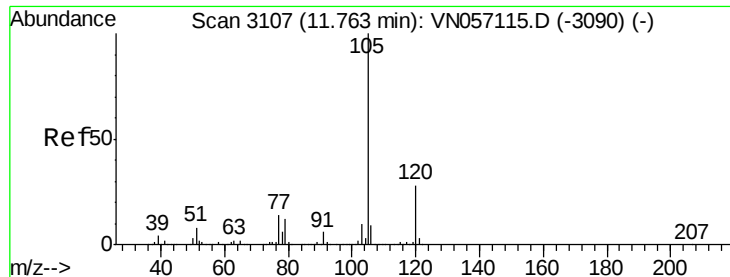
Tgt Ion:173 Resp: 4124
Ion Ratio Lower Upper
173 100
175 643.5 24.6 73.8#
254 0.0 0.1 0.1#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.88 min Scan# 3453
Delta R.T. 0.00 min
Lab File: VN057156.D
Acq: 9 Aug 2019 19:11

Tgt Ion:152 Resp: 348536
Ion Ratio Lower Upper
152 100
115 55.2 27.5 82.5
150 158.7 0.0 341.6





#73

Isopropylbenzene

Concen: Below Cal

RT: 11.76 min Scan# 3106

Delta R.T. -0.00 min

Lab File: VN057156.D

Acq: 9 Aug 2019 19:11

Instrument :

MSVOA_N

ClientSampled :

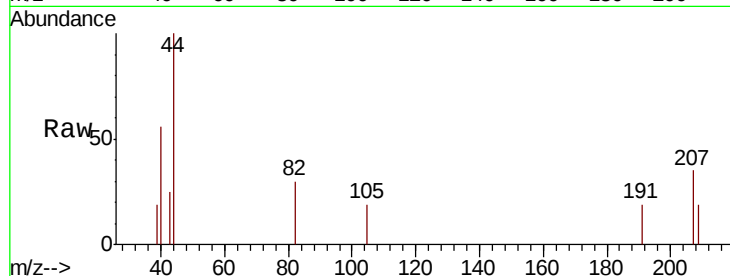
WP-1

Tgt Ion: 105 Resp: 60

Ion Ratio Lower Upper

105 100

120 0.0 13.7 41.0#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.76

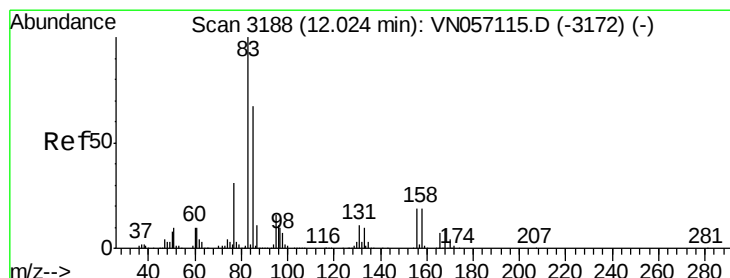
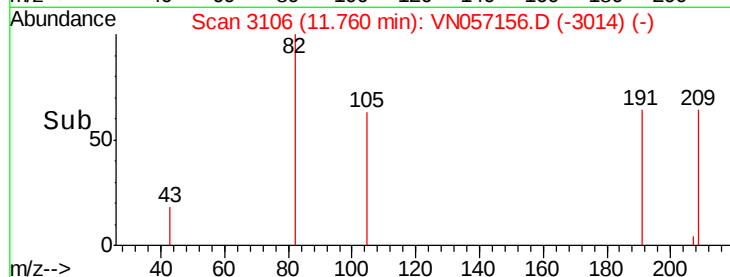
150

100

50

0

Time-->



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.20 min Scan# 3244

Delta R.T. 0.18 min

Lab File: VN057156.D

Acq: 9 Aug 2019 19:11

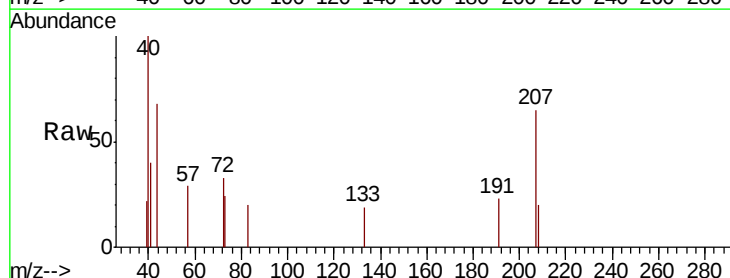
Tgt Ion: 83 Resp: 30

Ion Ratio Lower Upper

83 100

131 0.0 5.5 16.4#

85 0.0 32.4 97.0#



Abundance Ion 82.90 (82.60 to 83.60): V

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): V

200

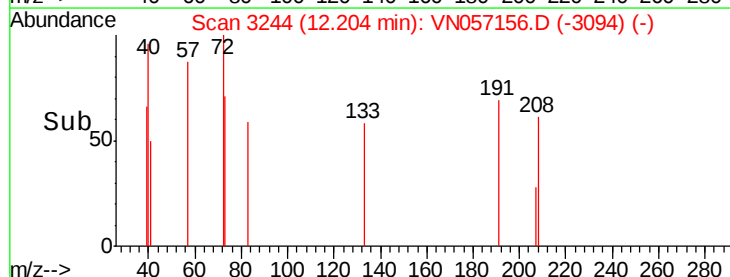
150

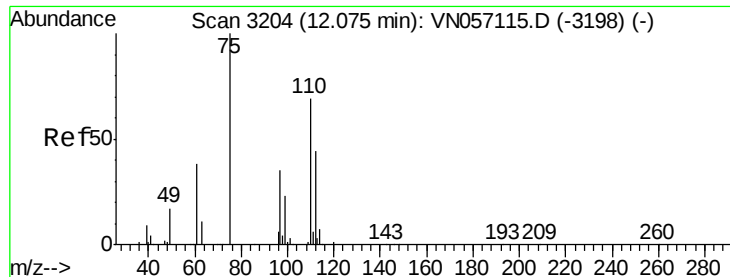
100

50

0

Time-->

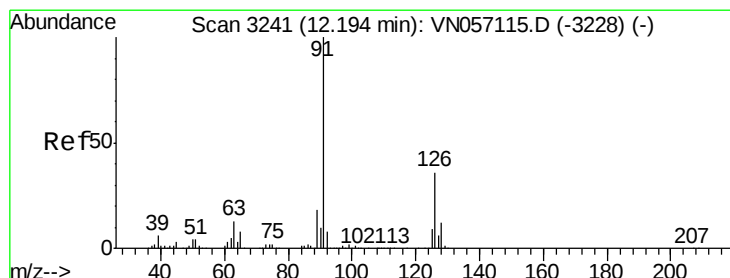
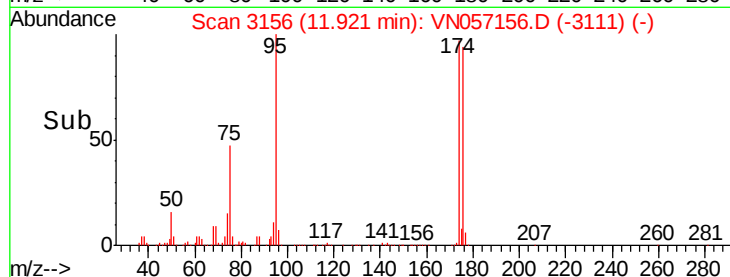
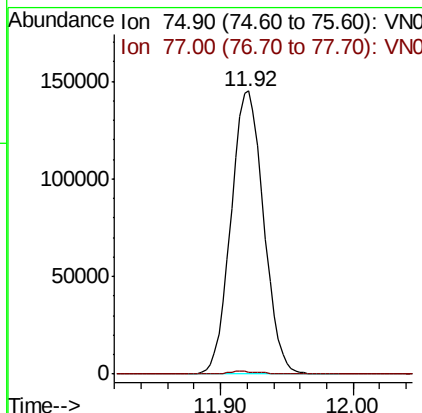
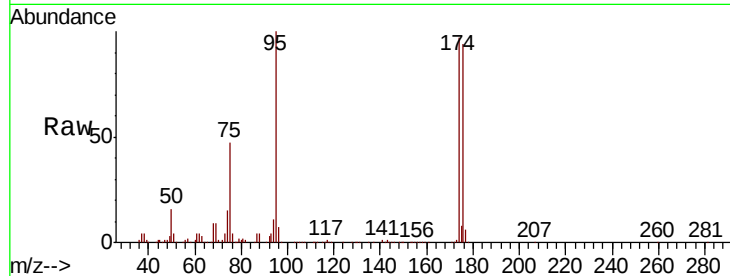




#76
 1,2,3-Trichloropropane
 Concen: 35.641 ug/l
 RT: 11.92 min Scan# 3156
 Delta R.T. -0.15 min
 Lab File: VN057156.D
 Acq: 9 Aug 2019 19:11

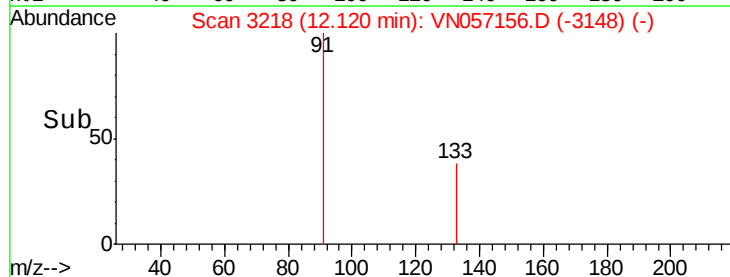
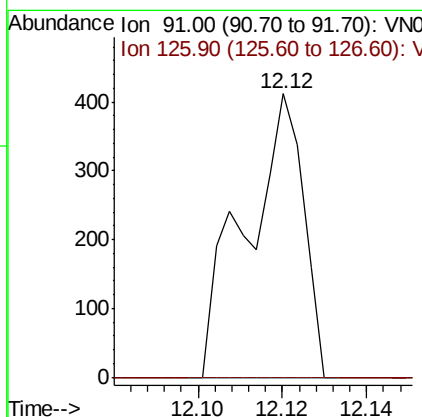
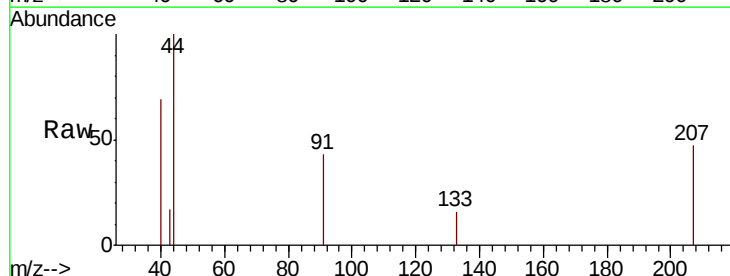
Instrument :
 MSVOA_N
 ClientSampled :
 WP-1

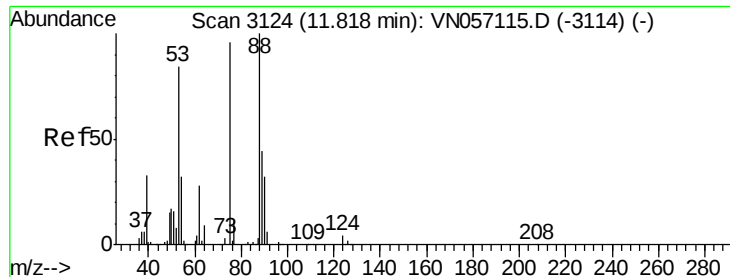
Tgt Ion: 75 Resp: 248245
 Ion Ratio Lower Upper
 75 100
 77 1.0 0.0 0.0#



#79
 2-Chlorotoluene
 Concen: Below Cal
 RT: 12.12 min Scan# 3218
 Delta R.T. -0.07 min
 Lab File: VN057156.D
 Acq: 9 Aug 2019 19:11

Tgt Ion: 91 Resp: 392
 Ion Ratio Lower Upper
 91 100
 126 0.0 18.1 54.3#





#81

trans-1,4-Dichloro-2-butene

Concen: 104.726 ug/l

RT: 11.92 min Scan# 3156

Delta R.T. 0.10 min

Lab File: VN057156.D

Acq: 9 Aug 2019 19:11

Instrument :

MSVOA_N

ClientSampled :

WP-1

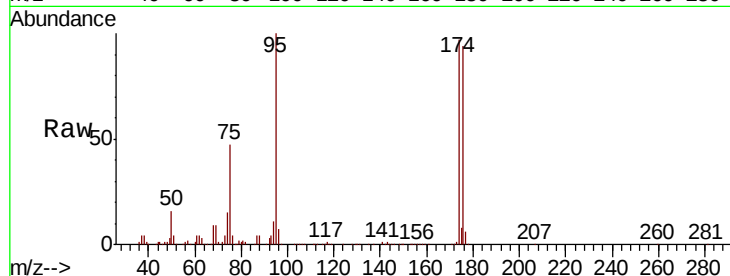
Tgt Ion: 75 Resp: 248245

Ion Ratio Lower Upper

75 100

53 0.0 70.6 106.0#

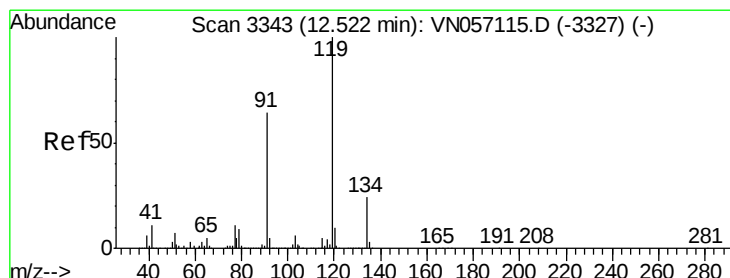
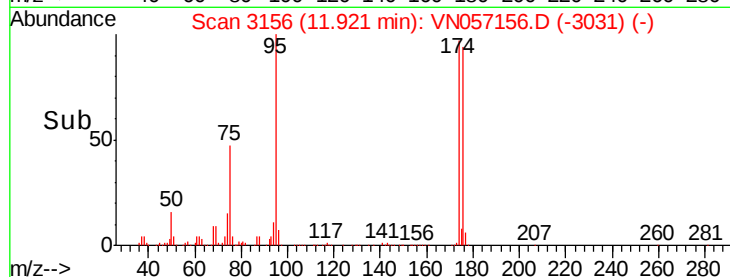
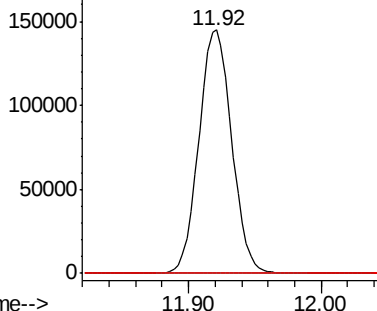
89 0.0 36.4 54.6#



Abundance Ion 74.90 (74.60 to 75.60): VN057115.D (-3114) (-)

Ion 53.00 (52.70 to 53.70): VN057115.D (-3114) (-)

Ion 88.90 (88.60 to 89.60): VN057115.D (-3114) (-)



#83

tert-Butylbenzene

Concen: Below Cal

RT: 12.75 min Scan# 3413

Delta R.T. 0.23 min

Lab File: VN057156.D

Acq: 9 Aug 2019 19:11

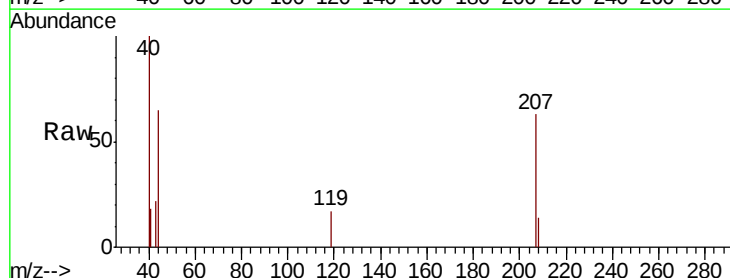
Tgt Ion: 119 Resp: 65

Ion Ratio Lower Upper

119 100

91 0.0 31.4 94.2#

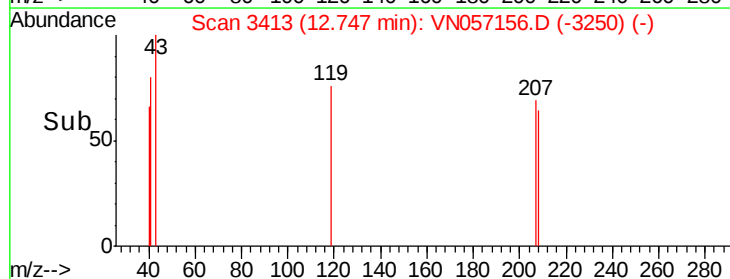
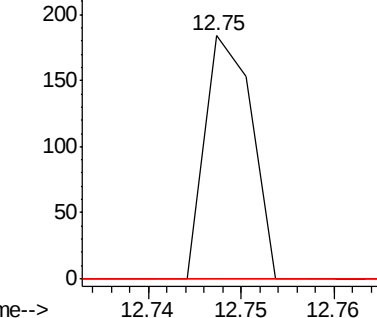
134 0.0 13.2 39.6#

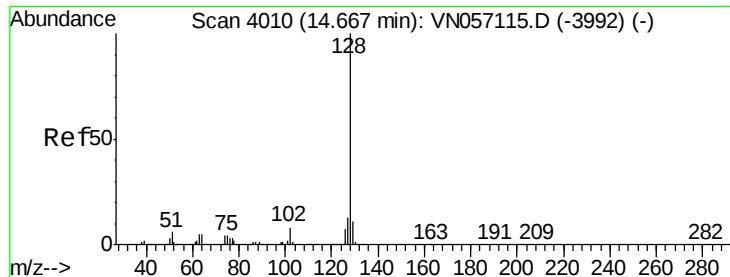


Abundance Ion 119.00 (118.70 to 119.70): VN057115.D (-3327) (-)

Ion 91.00 (90.70 to 91.70): VN057115.D (-3327) (-)

Ion 134.00 (133.70 to 134.70): VN057115.D (-3327) (-)





#95

Naphthalene

Concen: 2.815 ug/l

RT: 14.67 min Scan# 4010

Delta R.T. 0.00 min

Lab File: VN057156.D

Acq: 9 Aug 2019 19:11

Instrument :

MSVOA_N

ClientSampled :

WP-1

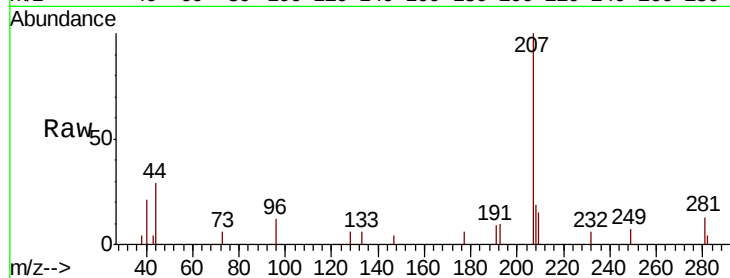
Tgt Ion:128 Resp: 117

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

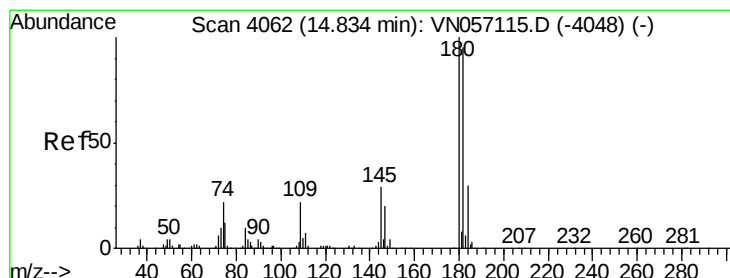
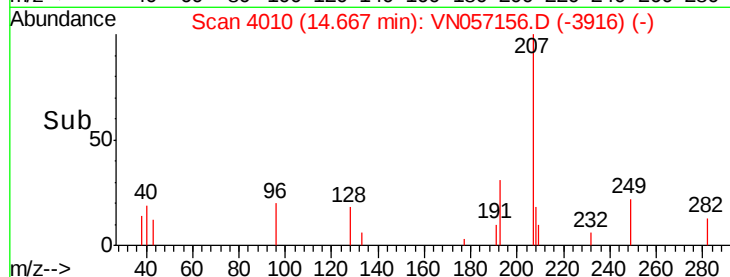
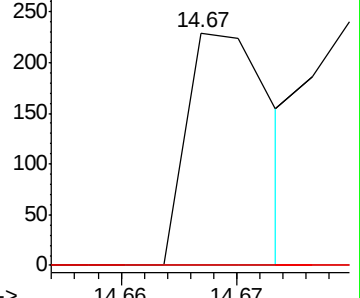
129 0.0 8.8 13.2#



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: 5.740 ug/l

RT: 14.83 min Scan# 4060

Delta R.T. -0.01 min

Lab File: VN057156.D

Acq: 9 Aug 2019 19:11

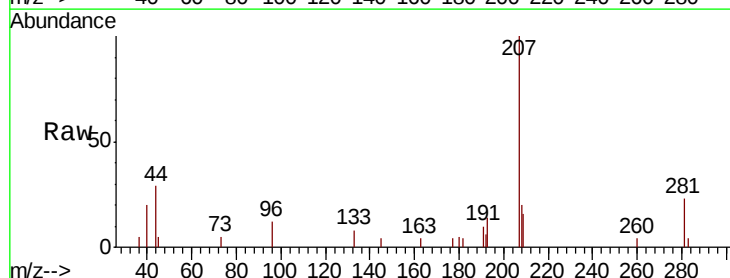
Tgt Ion:180 Resp: 112

Ion Ratio Lower Upper

180 100

182 26.8 48.3 144.8#

145 55.4 14.9 44.5#



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

