

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091919\
 Data File : VN058191.D
 Acq On : 19 Sep 2019 9:50
 Operator : JC/SP
 Sample : VN0919WBL01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 20 01:47:52 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091819W.M
 Quant Title : SW846 8260
 QLast Update : Thu Sep 19 09:27:53 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	518690	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	826786	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	708923	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	300044	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	356030	49.28	ug/l	0.00
Spiked Amount			Recovery	=	98.56%	
35) Dibromofluoromethane	7.57	113	249091	49.56	ug/l	0.00
Spiked Amount			Recovery	=	99.12%	
50) Toluene-d8	10.08	98	1020287	52.10	ug/l	0.00
Spiked Amount			Recovery	=	104.20%	
62) 4-Bromofluorobenzene	12.40	95	331538	45.58	ug/l	0.00
Spiked Amount			Recovery	=	91.16%	

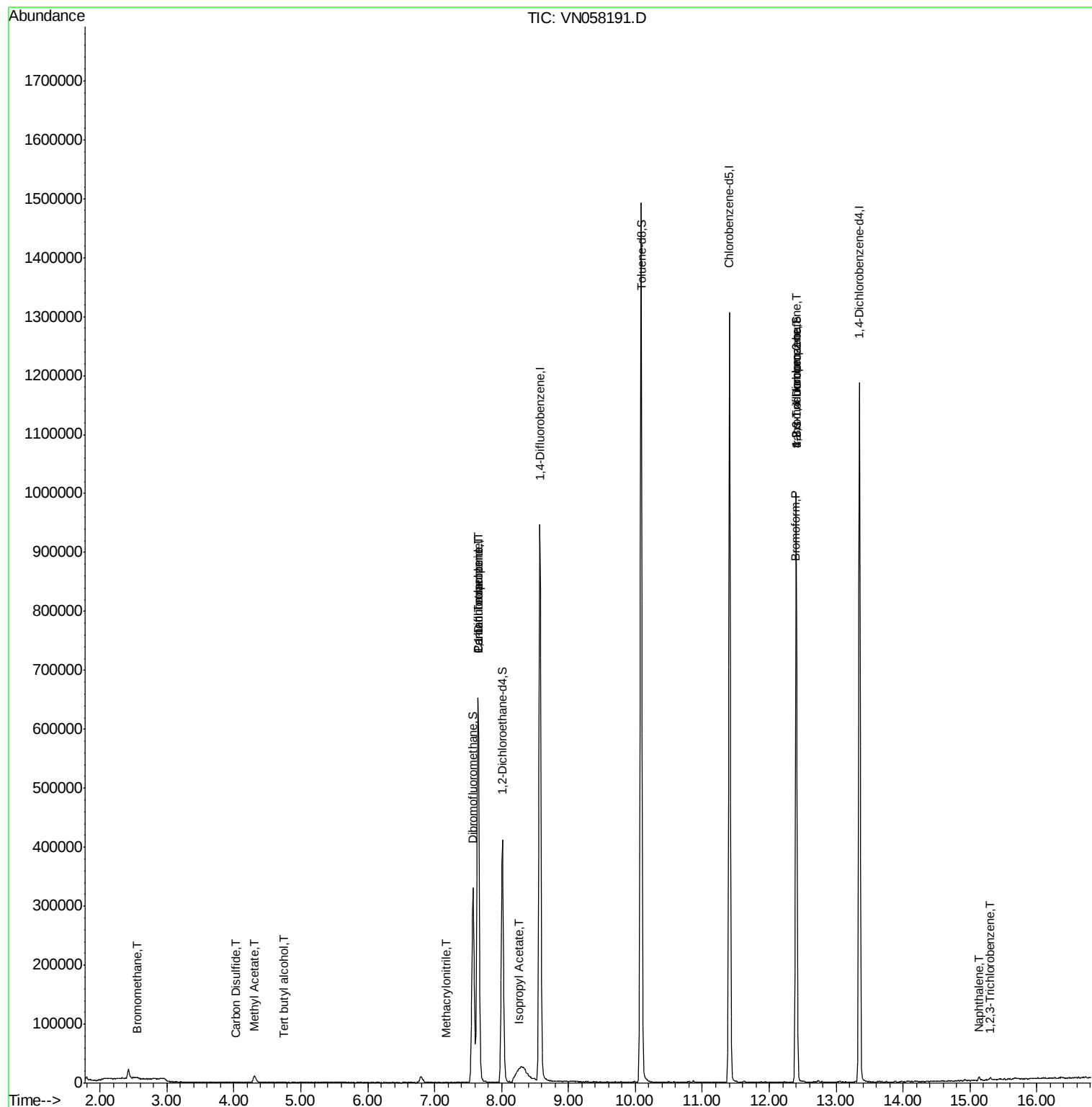
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	515	Below Cal	#	48
4) Vinyl Chloride	2.42	62	60	Below Cal	#	43
5) Bromomethane	2.56	94	559	1.012	ug/l #	70
6) Chloroethane	2.44	64	65	Below Cal	#	44
11) Tert butyl alcohol	4.76	59	174	0.202	ug/l #	71
17) Carbon Disulfide	4.04	76	409	0.362	ug/l #	74
18) Methyl Acetate	4.30	43	8494	1.316	ug/l	92
20) Methylene Chloride	4.54	84	210	Below Cal	#	17
31) Cyclohexane	7.65	56	11769	Below Cal	#	8
36) 1,1-Dichloropropene	7.65	75	44322	7.434	ug/l #	51
38) Carbon Tetrachloride	7.65	117	52550	8.768	ug/l #	14
41) Methacrylonitrile	7.17	41	62	0.930	ug/l #	100
43) Isopropyl Acetate	8.25	43	28517	2.468	ug/l #	58
71) Bromoform	12.39	173	190	3.648	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	181223	33.748	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	181223	94.612	ug/l #	5
95) Naphthalene	15.14	128	5907	0.412	ug/l #	95
96) 1,2,3-Trichlorobenzene	15.30	180	1404	0.269	ug/l	98

(#) = 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: 7.65 min Scan# 1828

Delta R.T. -0.00 min

Lab File: VN058191.D

Acq: 19 Sep 2019 9:50

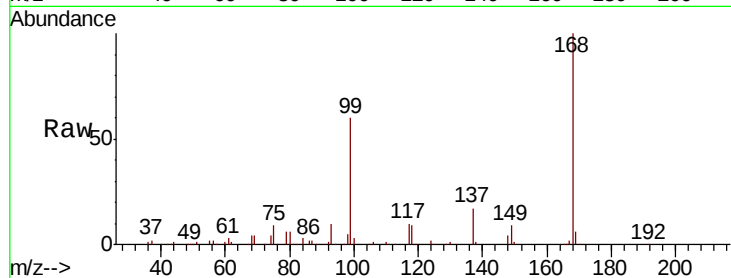
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 518690

Ion Ratio Lower Upper

168 100

99 59.7 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.65

200000

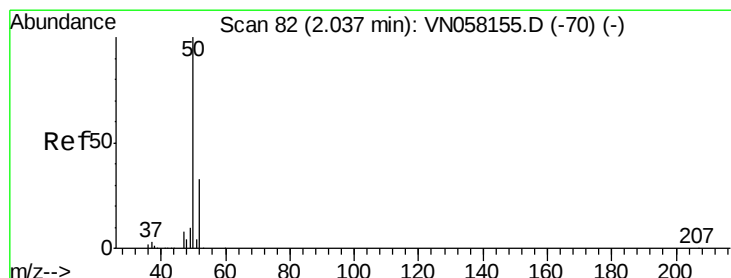
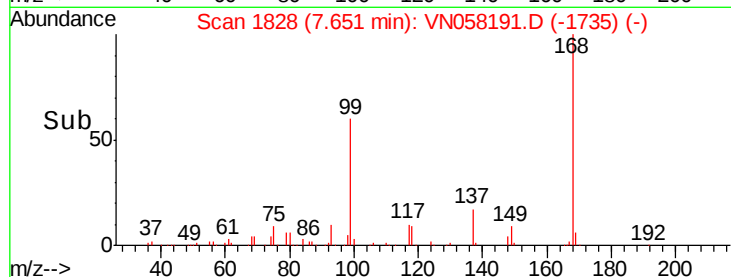
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058191.D

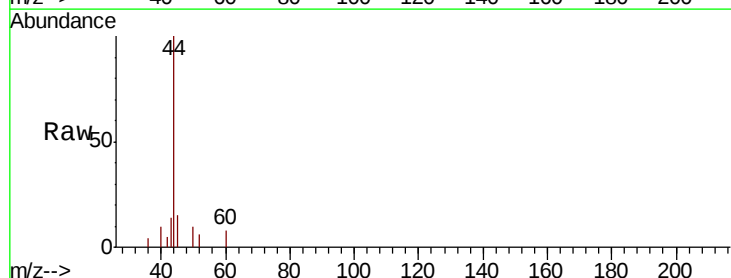
Acq: 19 Sep 2019 9:50

Tgt Ion: 50 Resp: 515

Ion Ratio Lower Upper

50 100

52 62.3 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2.04

400

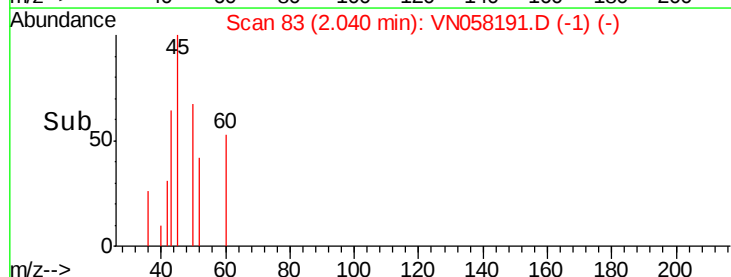
300

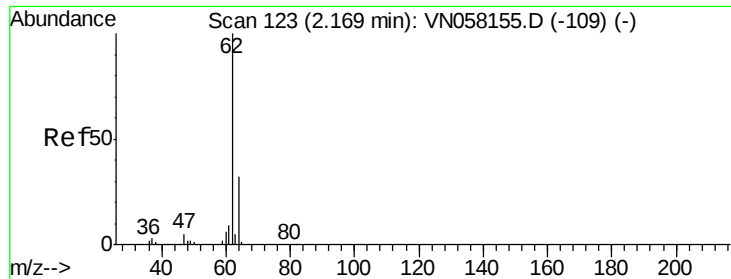
200

100

0

Time-->





#4

Vinyl Chloride

Concen: Below Cal

RT: 2.42 min Scan# 202

Delta R.T. 0.25 min

Lab File: VN058191.D

Acq: 19 Sep 2019 9:50

Instrument :

MSVOA_N

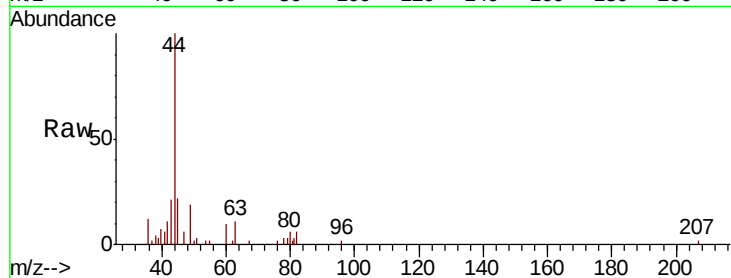
ClientSampleId :

Tot Ion: 62 Resp: 60

Ion Ratio Lower Upper

62 100

64 0.0 25.4 38.2#



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0

200

150

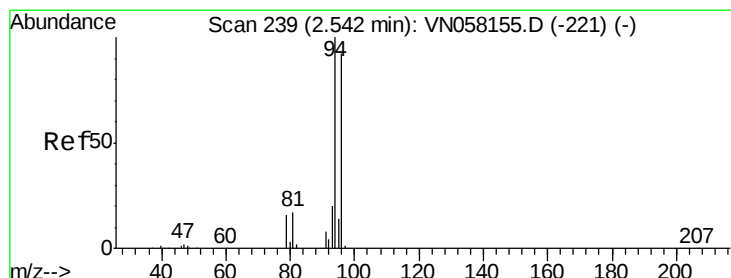
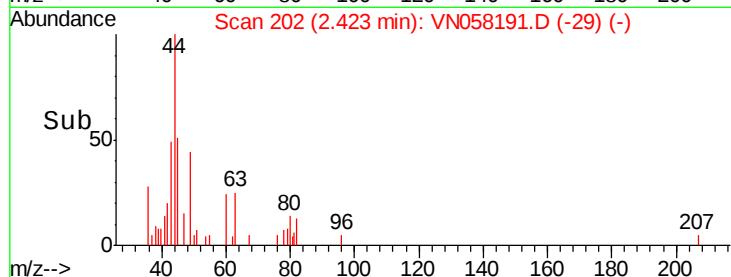
100

50

0

2.41 2.42 2.43

Time-->



#5

Bromomethane

Concen: 1.012 ug/l

RT: 2.56 min Scan# 245

Delta R.T. 0.02 min

Lab File: VN058191.D

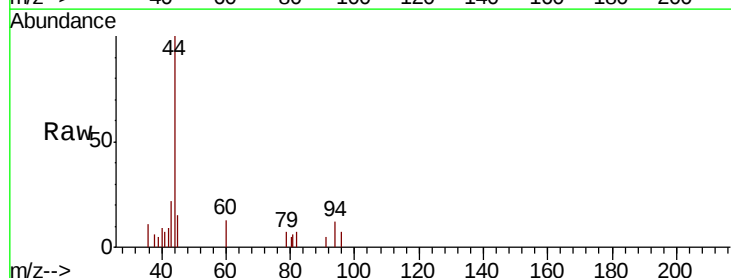
Acq: 19 Sep 2019 9:50

Tgt Ion: 94 Resp: 559

Ion Ratio Lower Upper

94 100

96 62.6 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0

500

400

300

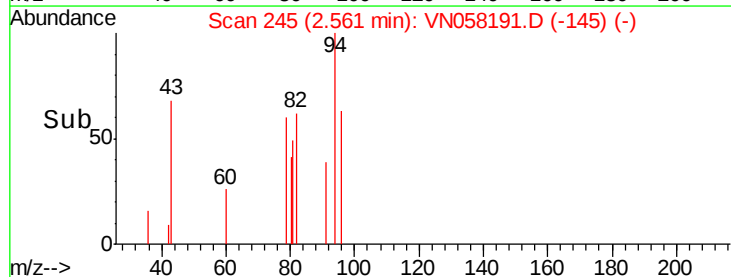
200

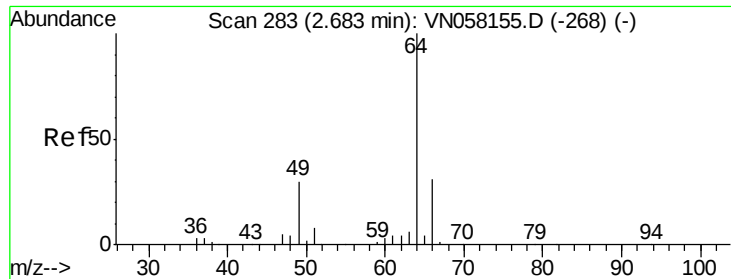
100

0

2.54 2.56 2.58

Time-->





#6

Chloroethane

Concen: Below Cal

RT: 2.44 min Scan# 206

Delta R.T. -0.25 min

Lab File: VN058191.D

Acq: 19 Sep 2019 9:50

Instrument :

MSVOA_N

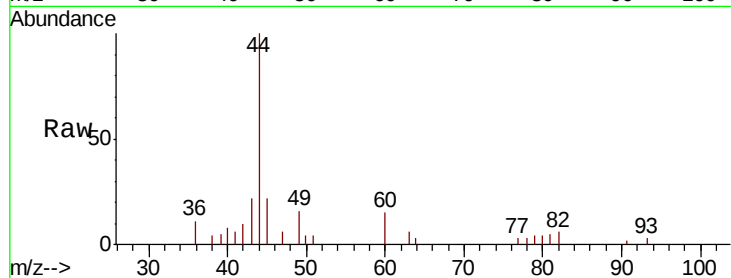
ClientSampled :

Tot Ion: 64 Resp: 65

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0

2.44

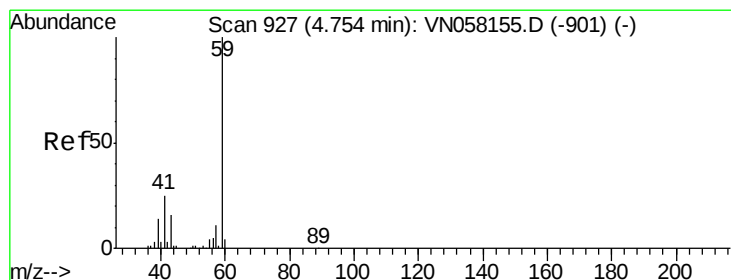
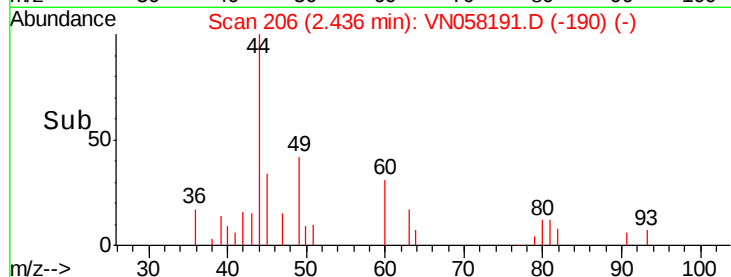
150

100

50

0

Time-->



#11

Tert butyl alcohol

Concen: 0.202 ug/l

RT: 4.76 min Scan# 929

Delta R.T. 0.01 min

Lab File: VN058191.D

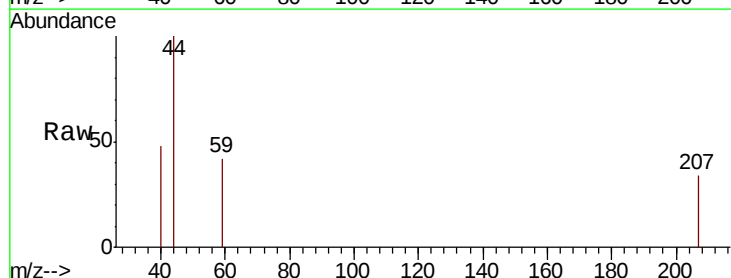
Acq: 19 Sep 2019 9:50

Tgt Ion: 59 Resp: 174

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

250

200

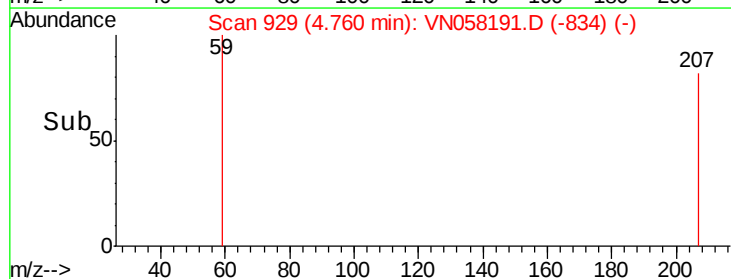
150

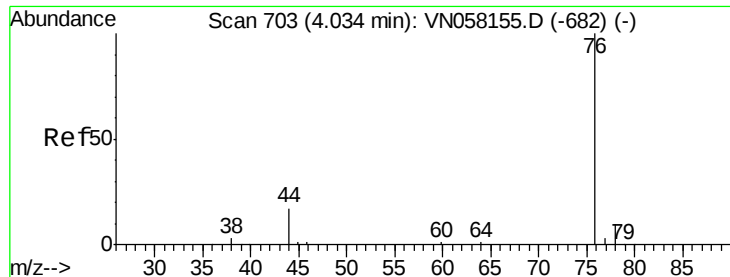
100

50

0

Time-->

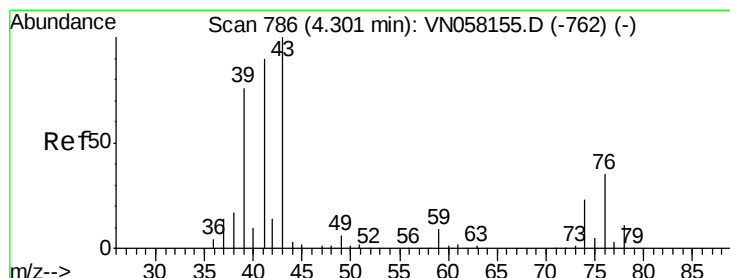
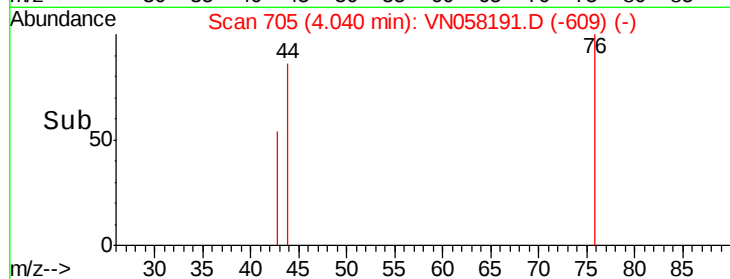
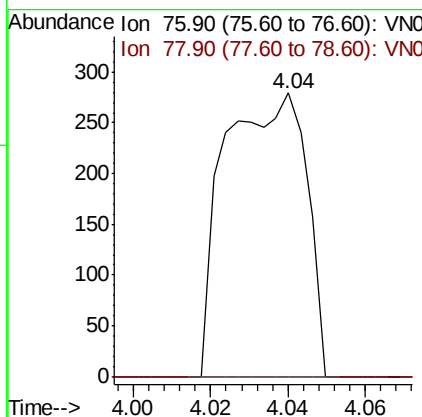
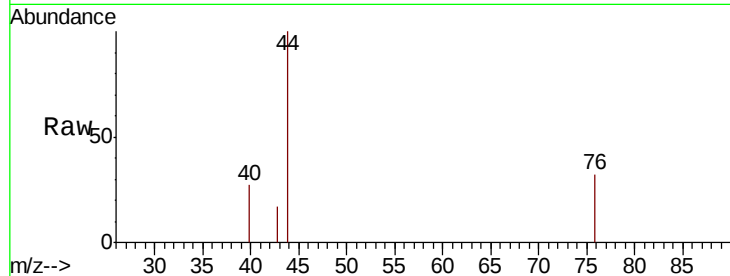




#17
Carbon Disulfide
Concen: 0.362 ug/l
RT: 4.04 min Scan# 705
Delta R.T. 0.01 min
Lab File: VN058191.D
Acq: 19 Sep 2019 9:50

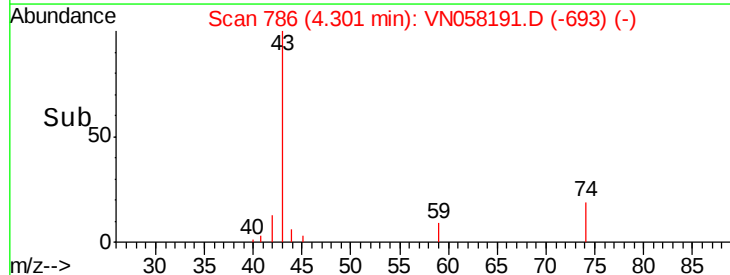
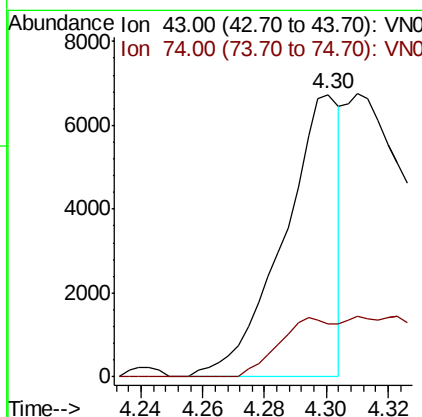
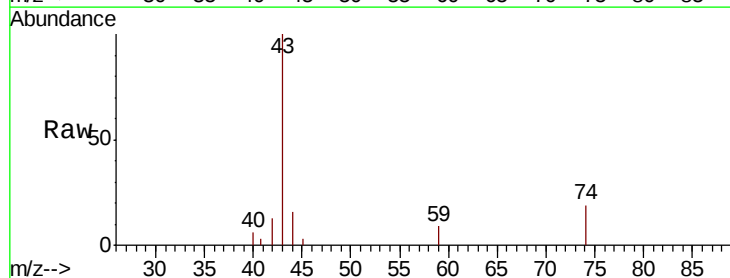
Instrument :
MSVOA_N
ClientSampled :

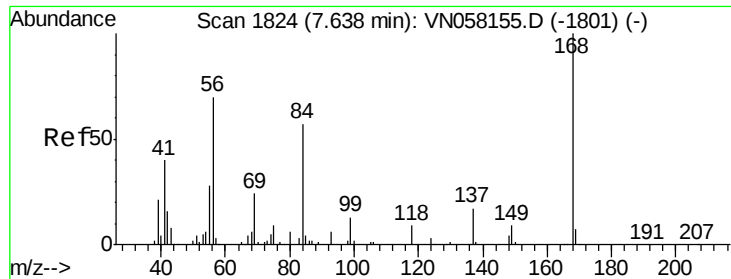
Tot Ion: 76 Resp: 409
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#



#18
Methyl Acetate
Concen: 1.316 ug/l
RT: 4.30 min Scan# 786
Delta R.T. -0.00 min
Lab File: VN058191.D
Acq: 19 Sep 2019 9:50

Tgt Ion: 43 Resp: 8494
Ion Ratio Lower Upper
43 100
74 18.6 18.0 27.0





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1827

Delta R.T. 0.01 min

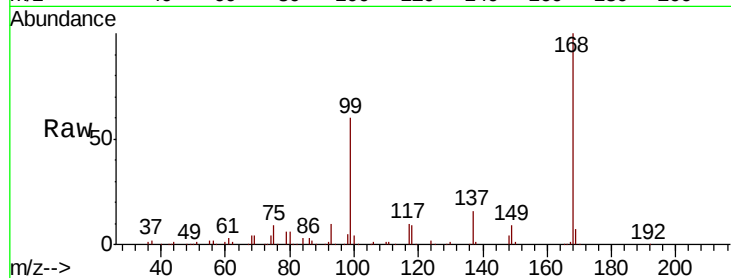
Lab File: VN058191.D

Acq: 19 Sep 2019 9:50

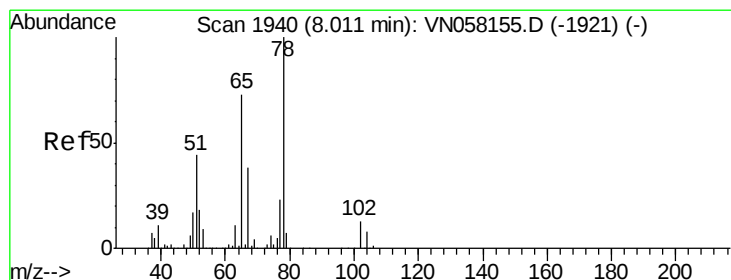
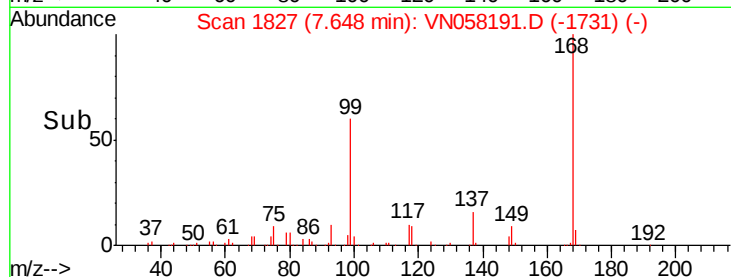
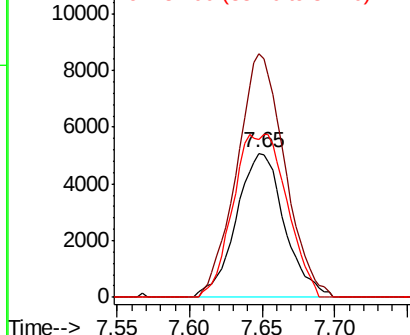
Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 56 Resp: 11769

Ion	Ratio	Lower	Upper
56	100		
69	168.9	27.3	40.9#
84	109.3	65.0	97.4#



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: 49.282 ug/l

RT: 8.01 min Scan# 1940

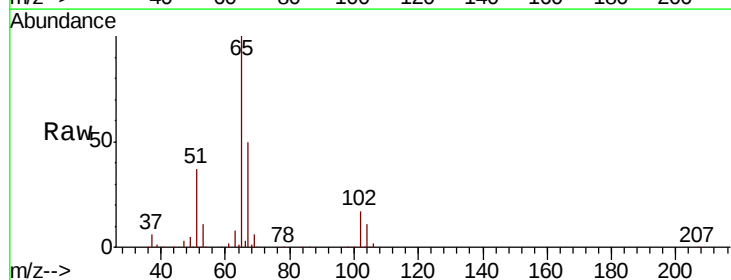
Delta R.T. -0.00 min

Lab File: VN058191.D

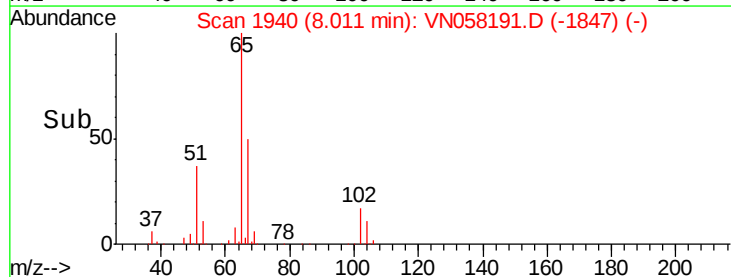
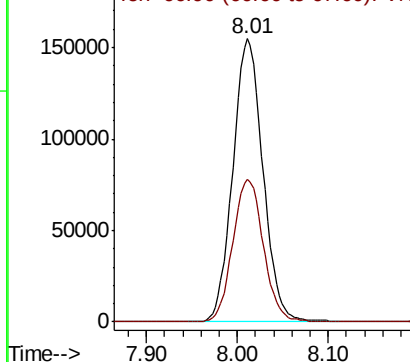
Acq: 19 Sep 2019 9:50

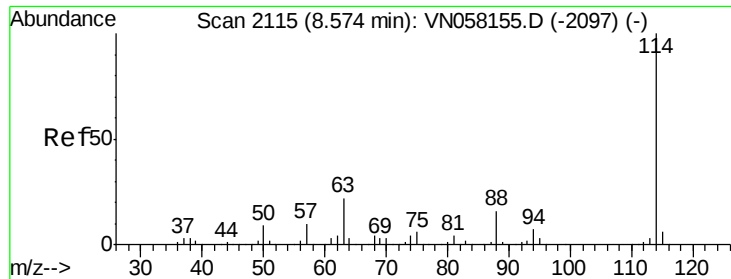
Tgt Ion: 65 Resp: 356030

Ion	Ratio	Lower	Upper
65	100		
67	51.2	0.0	103.4



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

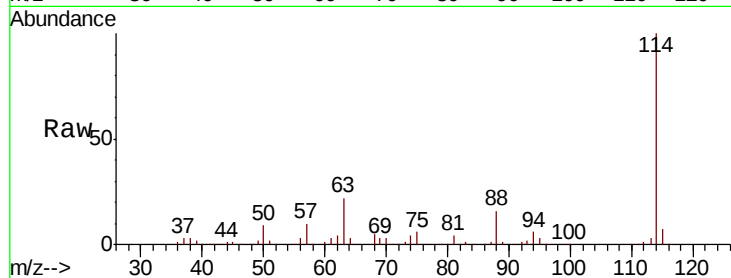




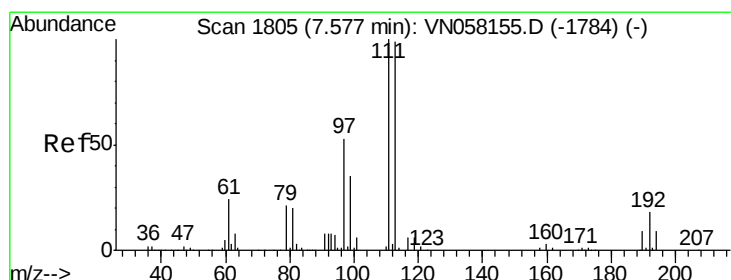
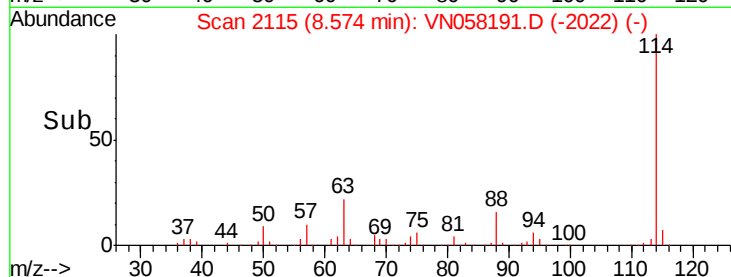
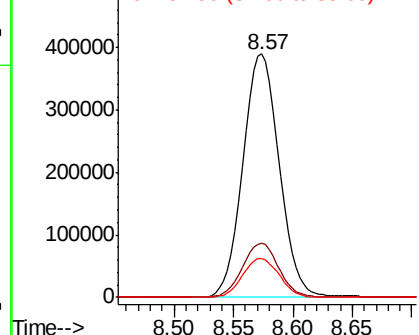
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058191.D
 Acq: 19 Sep 2019 9:50

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
114	100		
63	22.5	0.0	44.2
88	15.9	0.0	31.6

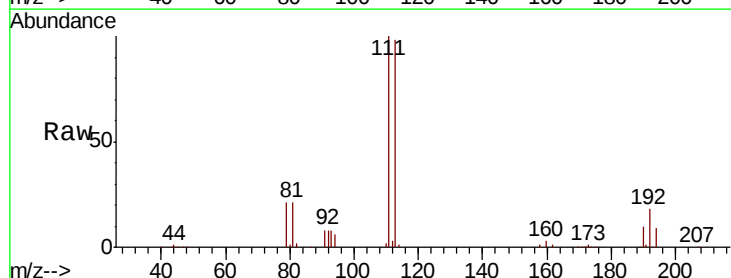


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

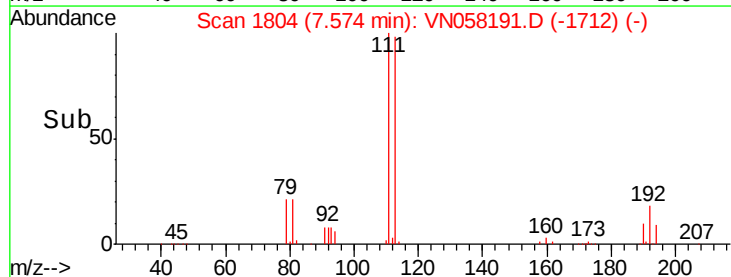
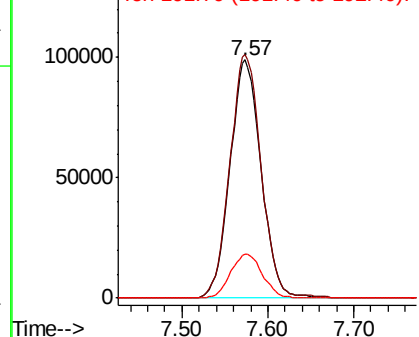


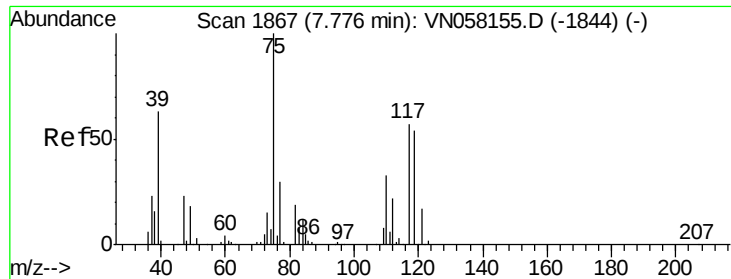
#35
 Dibromofluoromethane
 Concen: 49.559 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058191.D
 Acq: 19 Sep 2019 9:50

Tgt Ion	Ratio	Lower	Upper
113	100		
111	101.9	81.8	122.6
192	18.8	14.5	21.7



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: 7.434 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.13 min

Lab File: VN058191.D

Acq: 19 Sep 2019 9:50

Instrument :
MSVOA_N
ClientSampleId :

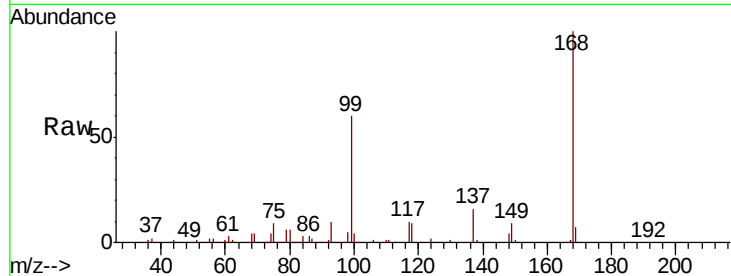
Tot Ion: 75 Resp: 44322

Ion Ratio Lower Upper

75 100

110 8.5 16.6 49.7#

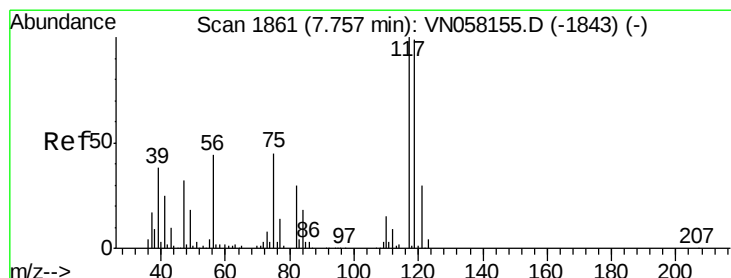
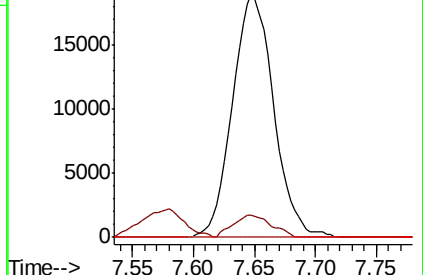
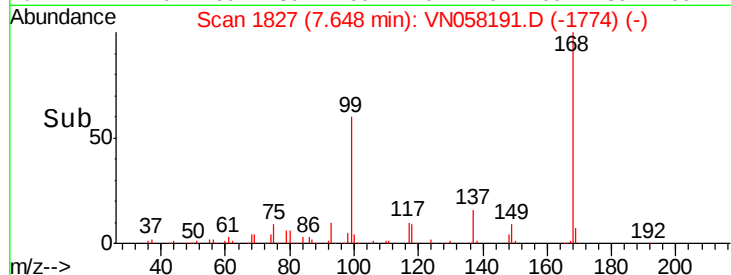
77 0.0 24.3 36.5#



Abundance Ion 74.90 (74.60 to 75.60): VN058191.D (-1774) (-)

Ion 109.90 (109.60 to 110.60): VN058191.D (-1774) (-)

Ion 76.90 (76.60 to 77.60): VN058191.D (-1774) (-)



#38

Carbon Tetrachloride

Concen: 8.768 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.11 min

Lab File: VN058191.D

Acq: 19 Sep 2019 9:50

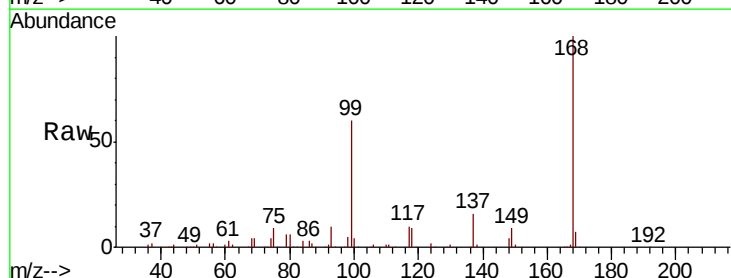
Tgt Ion: 117 Resp: 52550

Ion Ratio Lower Upper

117 100

119 4.0 78.6 117.8#

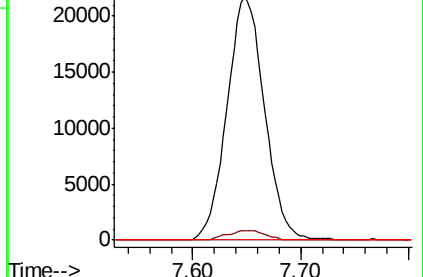
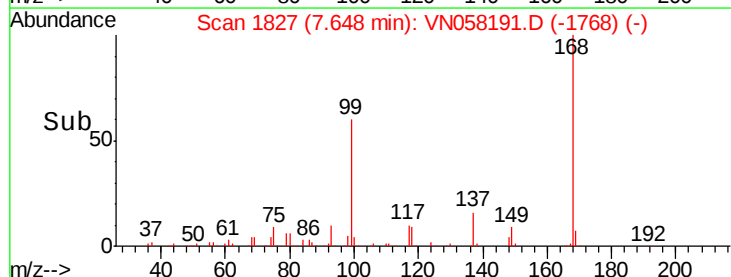
121 0.0 24.1 36.1#

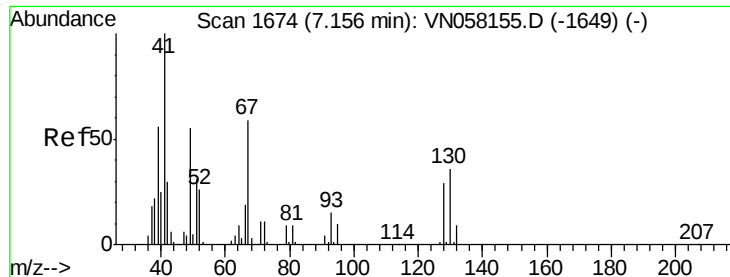


Abundance Ion 116.80 (116.50 to 117.50): VN058191.D (-1768) (-)

Ion 118.80 (118.50 to 119.50): VN058191.D (-1768) (-)

Ion 120.80 (120.50 to 121.50): VN058191.D (-1768) (-)

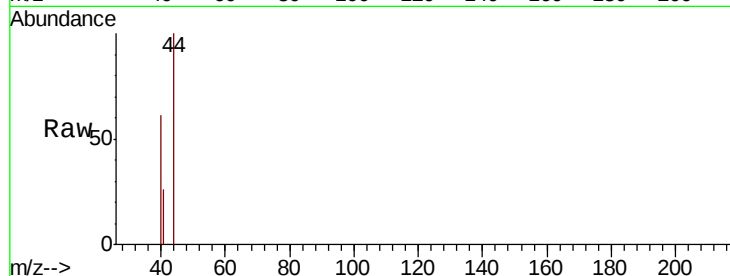




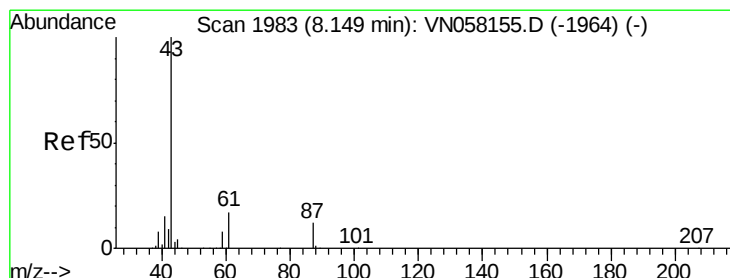
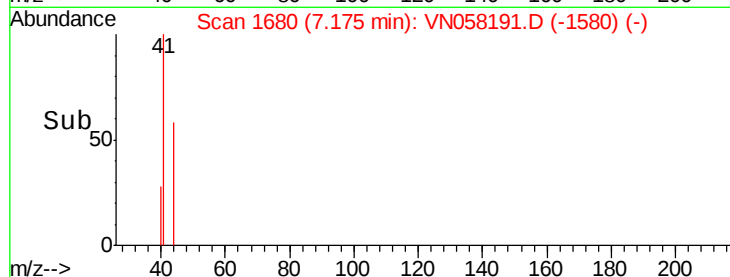
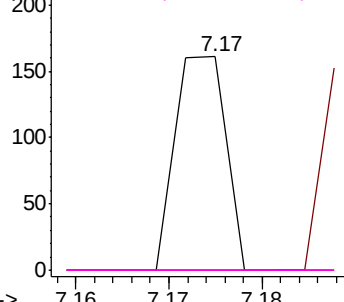
#41
Methacrylonitrile
Concen: 0.930 ug/l
RT: 7.17 min Scan# 1680
Delta R.T. 0.02 min
Lab File: VN058191.D
Acq: 19 Sep 2019 9:50

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion:	41	Resp:	62
Ion	Ratio	Lower	Upper
41	100		
39	0.0	0.0	0.0
67	0.0	0.0	0.0
52	0.0	0.0	0.0

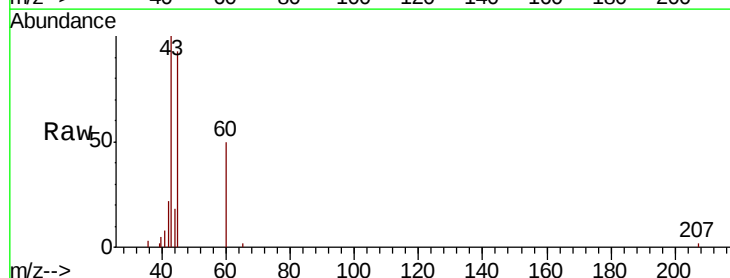


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

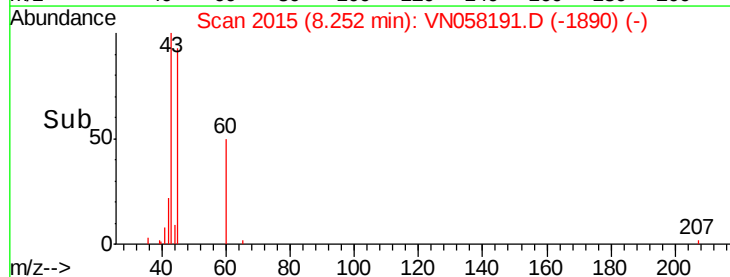
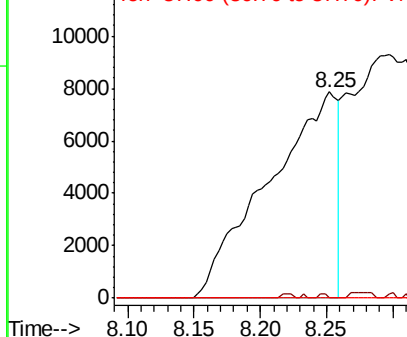


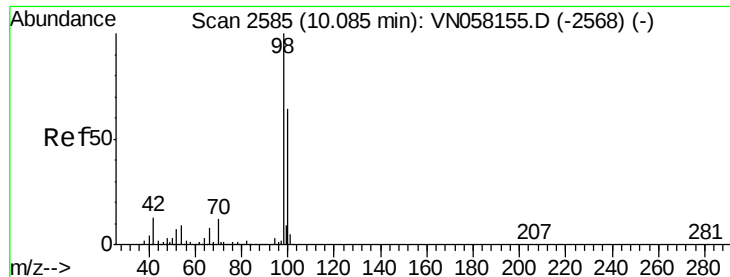
#43
Isopropyl Acetate
Concen: 2.468 ug/l
RT: 8.25 min Scan# 2015
Delta R.T. 0.10 min
Lab File: VN058191.D
Acq: 19 Sep 2019 9:50

Tgt Ion:	43	Resp:	28517
Ion	Ratio	Lower	Upper
43	100		
61	0.8	19.7	29.5#
87	0.0	9.4	14.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 61.00 (60.70 to 61.70): VN0
Ion 87.00 (86.70 to 87.70): VN0

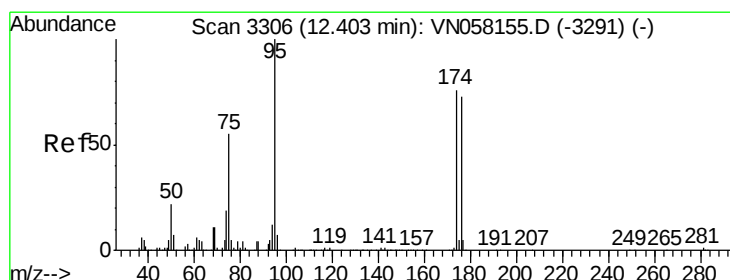
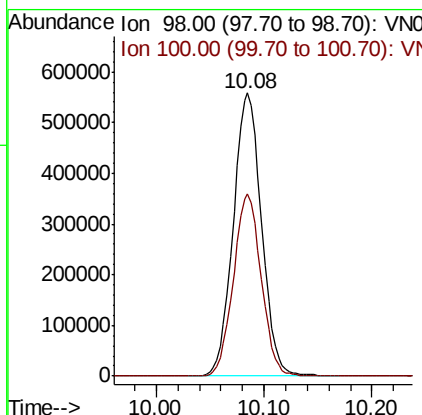
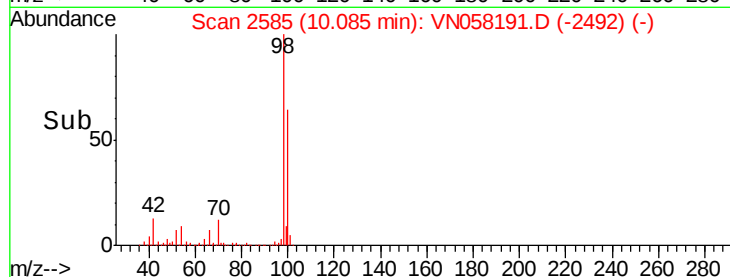
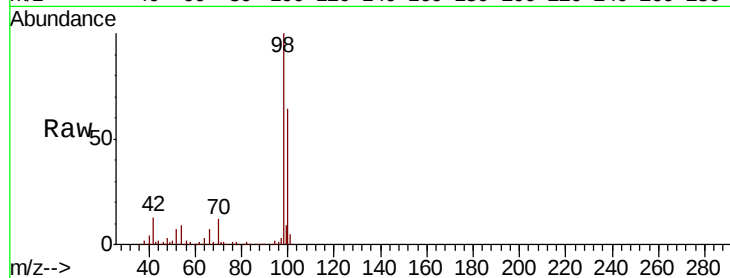




#50
Toluene-d8
Concen: 52.101 ug/l
RT: 10.08 min Scan# 2585
Delta R.T. -0.00 min
Lab File: VN058191.D
Acq: 19 Sep 2019 9:50

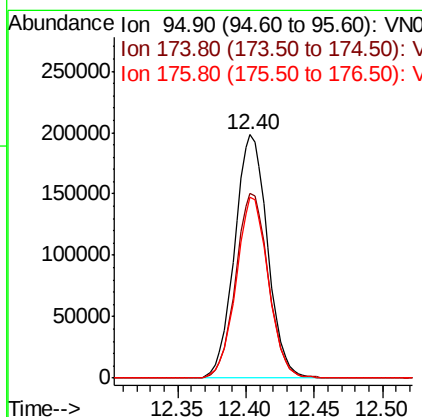
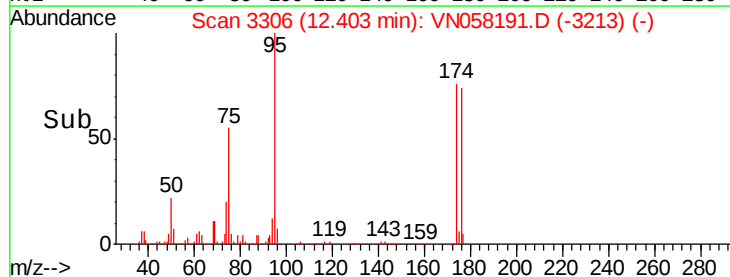
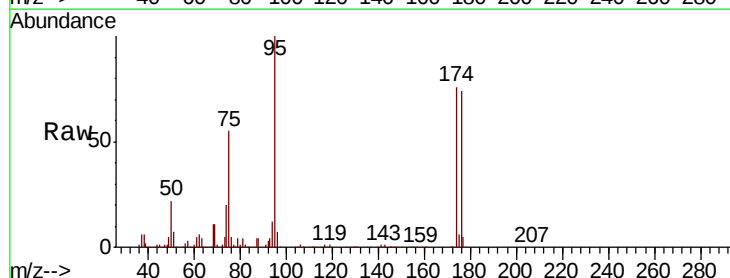
Instrument :
MSVOA_N
ClientSampleId :

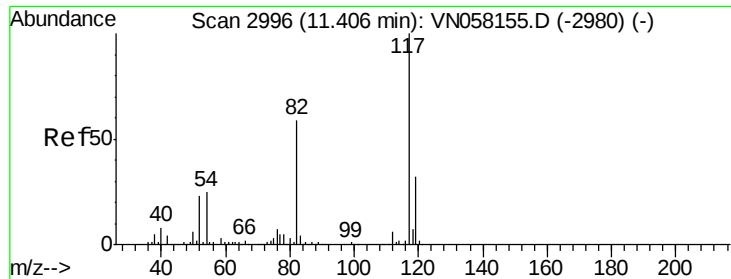
Tot Ion: 98 Resp: 1020287
Ion Ratio Lower Upper
98 100
100 63.4 51.1 76.7



#62
4-Bromofluorobenzene
Concen: 45.576 ug/l
RT: 12.40 min Scan# 3306
Delta R.T. -0.00 min
Lab File: VN058191.D
Acq: 19 Sep 2019 9:50

Tgt Ion: 95 Resp: 331538
Ion Ratio Lower Upper
95 100
174 75.7 0.0 152.2
176 73.0 0.0 148.0

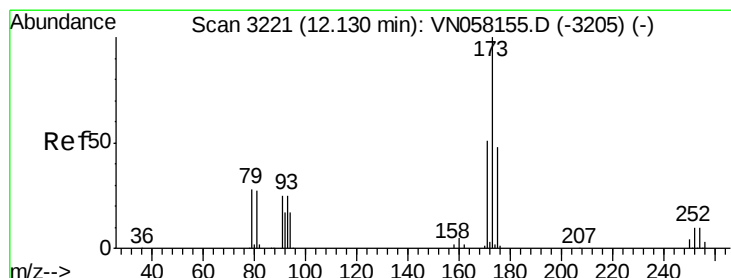
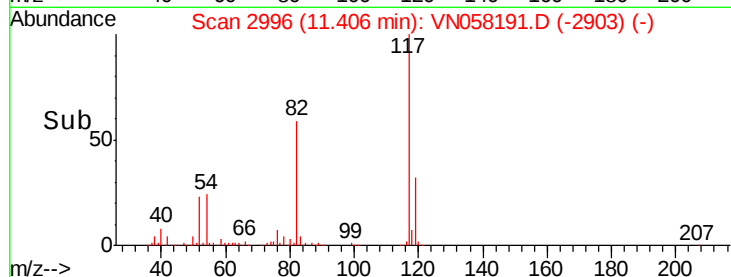
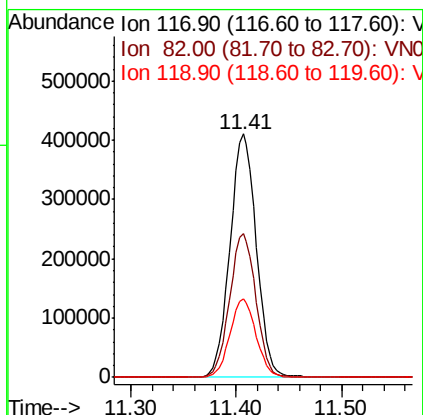
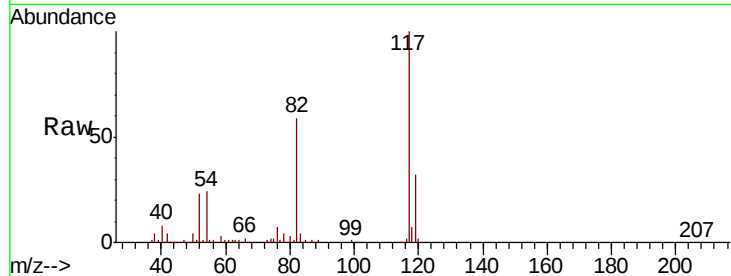




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN058191.D
Acq: 19 Sep 2019 9:50

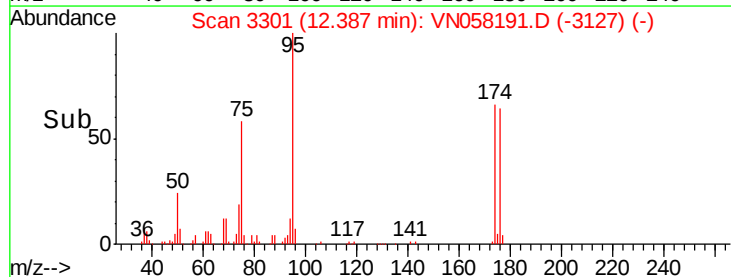
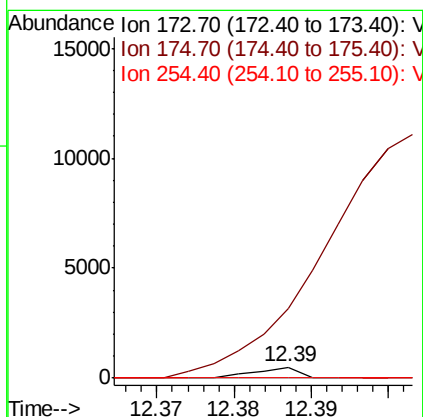
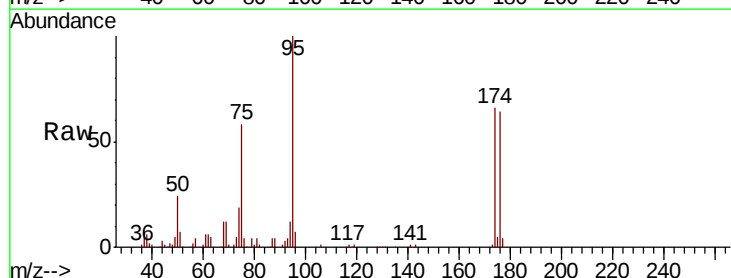
Instrument :
MSVOA_N
ClientSampleId :

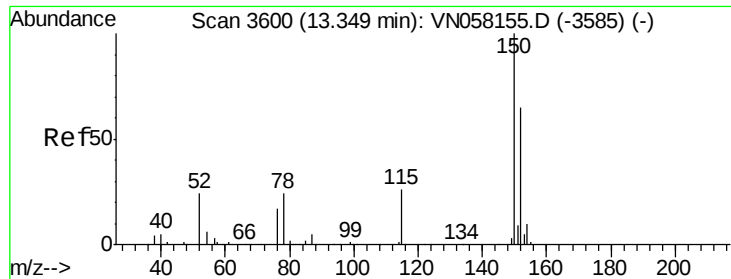
Tot Ion:117 Resp: 708923
Ion Ratio Lower Upper
117 100
82 58.9 46.9 70.3
119 32.1 25.3 37.9



#71
Bromoform
Concen: 3.648 ug/l
RT: 12.39 min Scan# 3301
Delta R.T. 0.26 min
Lab File: VN058191.D
Acq: 19 Sep 2019 9:50

Tgt Ion:173 Resp: 190
Ion Ratio Lower Upper
173 100
175 8725.3 24.2 72.6#
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: VN058191.D

Acq: 19 Sep 2019 9:50

Instrument :

MSVOA_N

ClientSampleId :

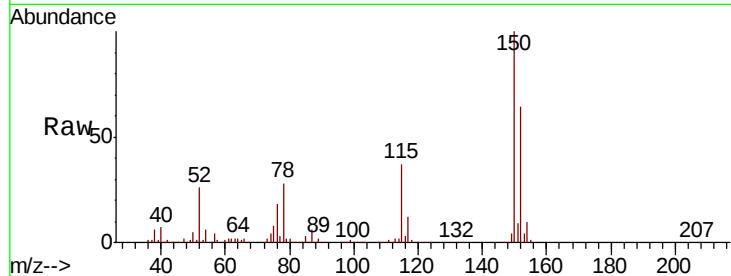
Tot Ion:152 Resp: 300044

Ion Ratio Lower Upper

152 100

115 59.5 30.1 90.3

150 156.6 0.0 346.4

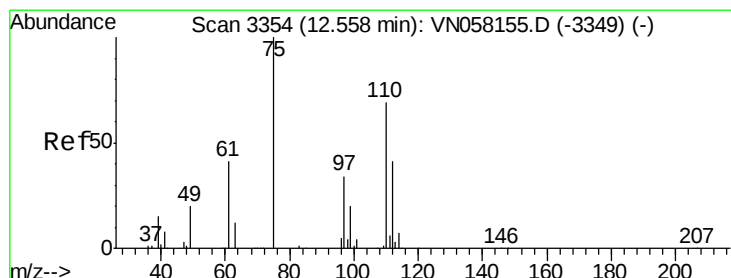
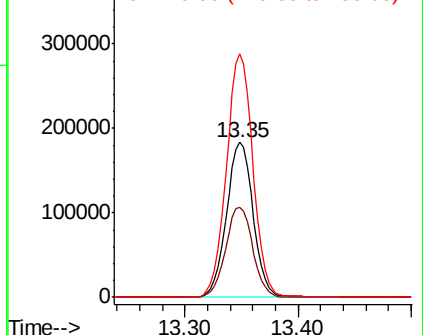
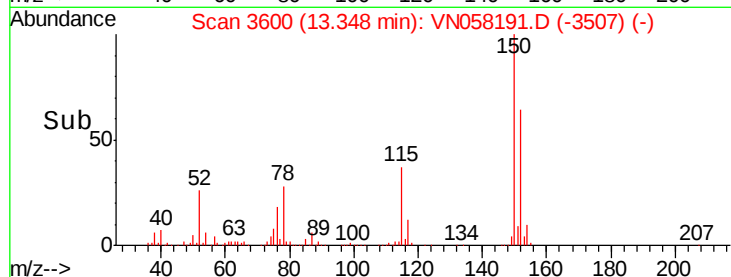


Abundance

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: 33.748 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN058191.D

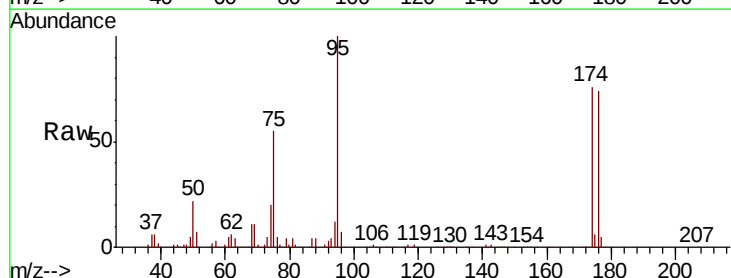
Acq: 19 Sep 2019 9:50

Tgt Ion: 75 Resp: 181223

Ion Ratio Lower Upper

75 100

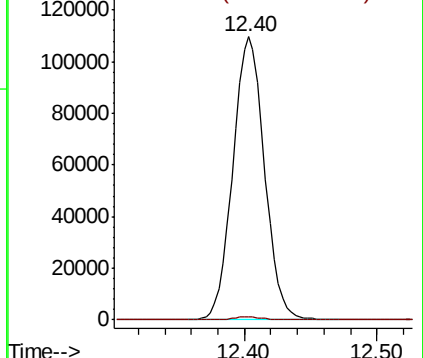
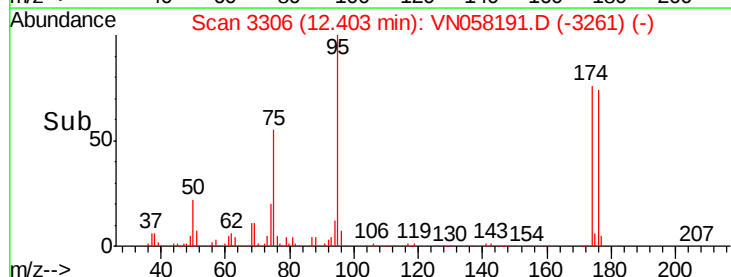
77 1.0 0.0 0.0#

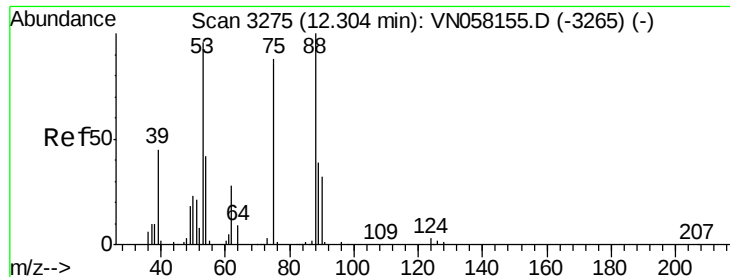


Abundance

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: 94.612 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN058191.D

Acq: 19 Sep 2019 9:50

Instrument :

MSVOA_N

ClientSampleId :

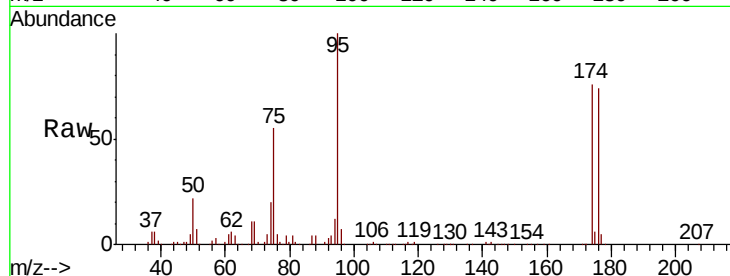
Tot Ion: 75 Resp: 181223

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

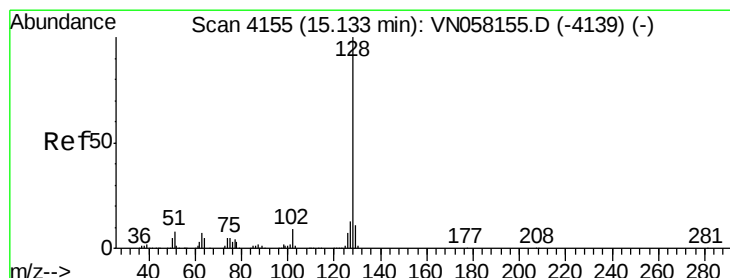
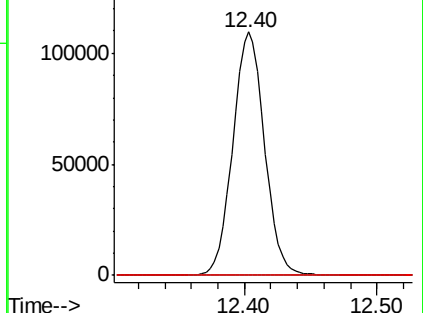
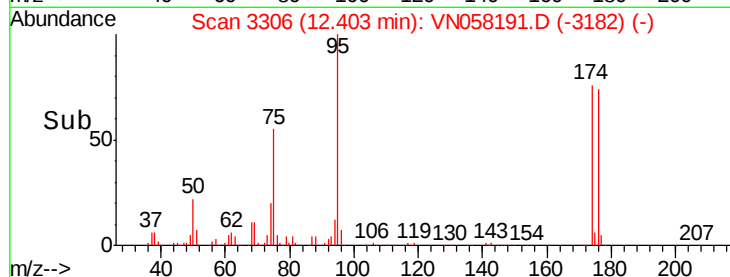
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN058191.D (-3182) (-)

Ion 53.00 (52.70 to 53.70): VN058191.D (-3182) (-)

Ion 88.90 (88.60 to 89.60): VN058191.D (-3182) (-)



#95

Naphthalene

Concen: 0.412 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN058191.D

Acq: 19 Sep 2019 9:50

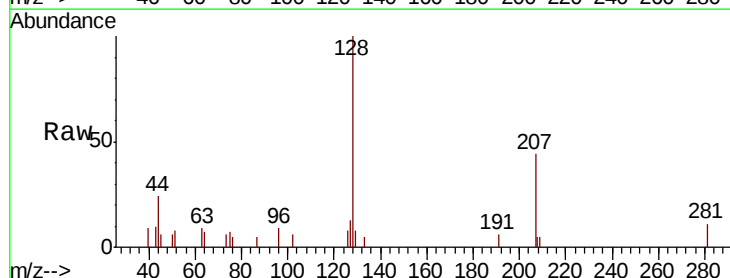
Tgt Ion: 128 Resp: 5907

Ion Ratio Lower Upper

128 100

127 13.7 10.2 15.2

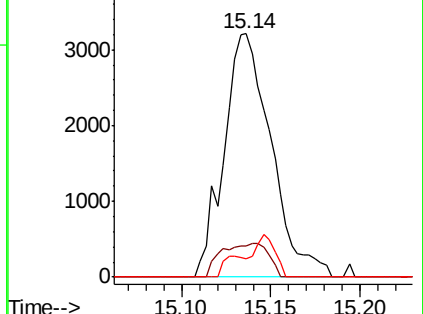
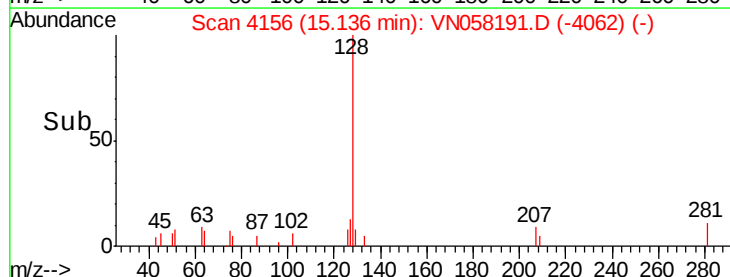
129 7.5 8.6 12.8#

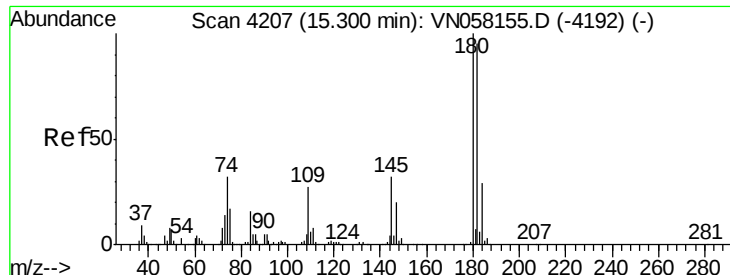


Abundance Ion 128.00 (127.70 to 128.70): VN058191.D (-4062) (-)

Ion 127.00 (126.70 to 127.70): VN058191.D (-4062) (-)

Ion 129.00 (128.70 to 129.70): VN058191.D (-4062) (-)





#96
 1,2,3-Trichlorobenzene
 Concen: 0.269 ug/l
 RT: 15.30 min Scan# 4206
 Delta R.T. -0.00 min
 Lab File: VN058191.D
 Acq: 19 Sep 2019 9:50

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.4	47.4	142.2
145	30.8	16.1	48.2

