

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN092319\
 Data File : VN058316.D
 Acq On : 24 Sep 2019 00:46
 Operator : JC/SP
 Sample : K5002-05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 24 01:40:16 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	460577	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	768132	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	656678	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	257556	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.01	65	355860	55.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.94%	
35) Dibromofluoromethane	7.58	113	240928	51.59	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.18%	
50) Toluene-d8	10.08	98	966643	53.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.26%	
62) 4-Bromofluorobenzene	12.41	95	304821	45.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.20%	

Target Compounds

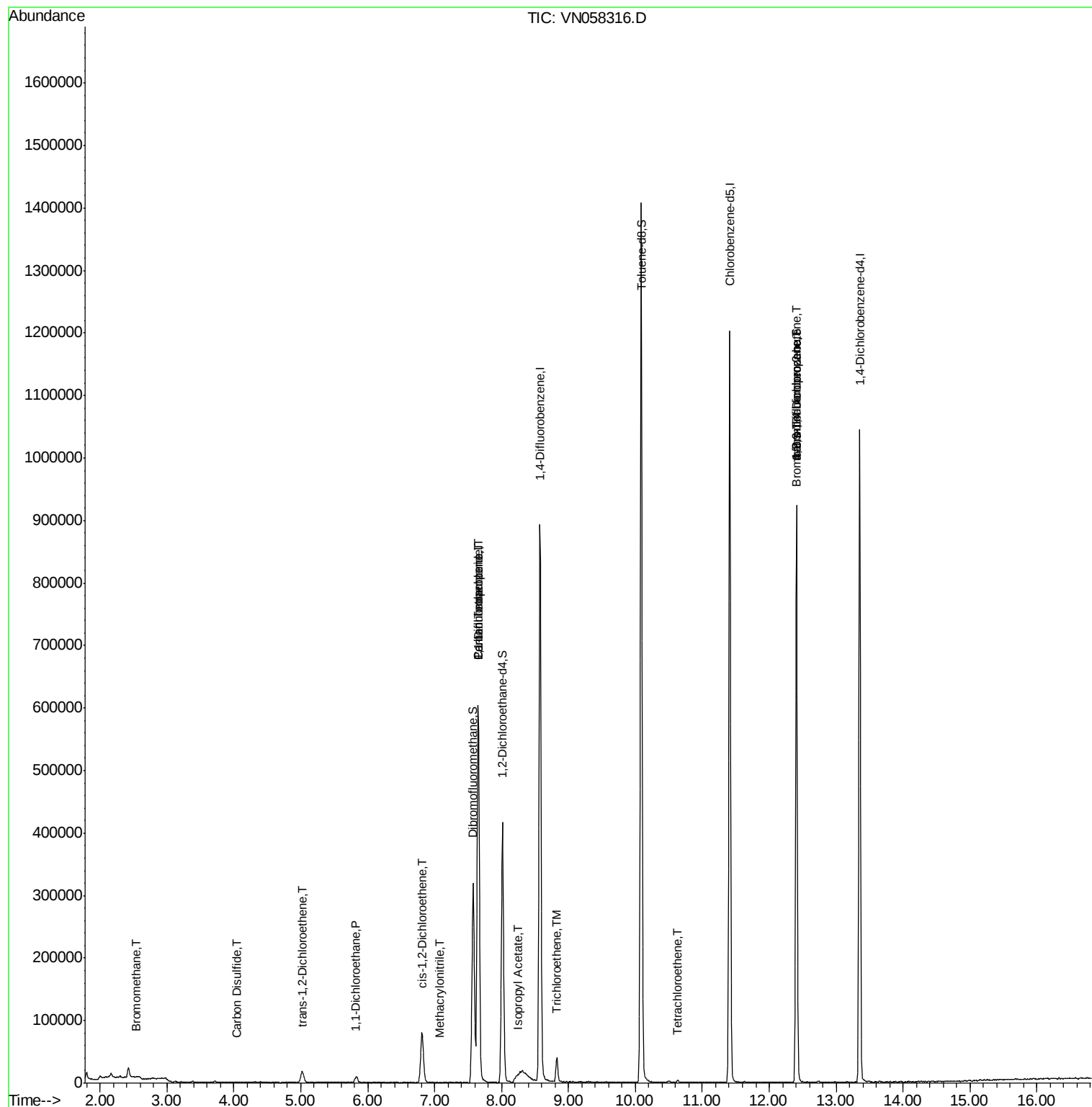
					Qvalue	
3) Chloromethane	2.04	50	195	Below Cal	#	36
5) Bromomethane	2.54	94	176	0.825	ug/l #	4
6) Chloroethane	2.68	64	64	Below Cal	#	44
12) 1,1-Dichloroethene	3.72	96	613	Below Cal	#	74
17) Carbon Disulfide	4.04	76	91	0.294	ug/l #	74
20) Methylene Chloride	4.53	84	65	Below Cal	#	48
21) trans-1,2-Dichloroethene	5.01	96	6322	1.663	ug/l	90
24) 1,1-Dichloroethane	5.83	63	14803	1.792	ug/l #	97
27) cis-1,2-Dichloroethene	6.82	96	50967	10.912	ug/l	87
31) Cyclohexane	7.65	56	11937	Below Cal	#	13
36) 1,1-Dichloropropene	7.65	75	40716	7.350	ug/l #	51
38) Carbon Tetrachloride	7.65	117	48491	8.708	ug/l #	16
41) Methacrylonitrile	7.08	41	62	0.932	ug/l #	100
43) Isopropyl Acetate	8.25	43	16521	1.539	ug/l #	57
44) Trichloroethene	8.83	130	13144	3.175	ug/l	99
64) Tetrachloroethene	10.63	164	971	0.303	ug/l #	65
71) Bromoform	12.39	173	169	3.646	ug/l #	29
76) 1,2,3-Trichloropropane	12.41	75	167844	36.413	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	167844	101.627	ug/l #	5

(#) = 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# 1828

Delta R.T. -0.00 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

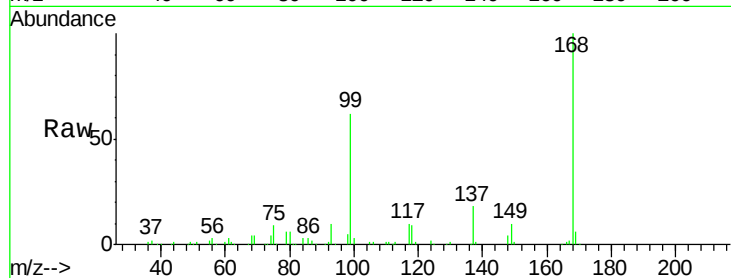
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 460577

Ion Ratio Lower Upper

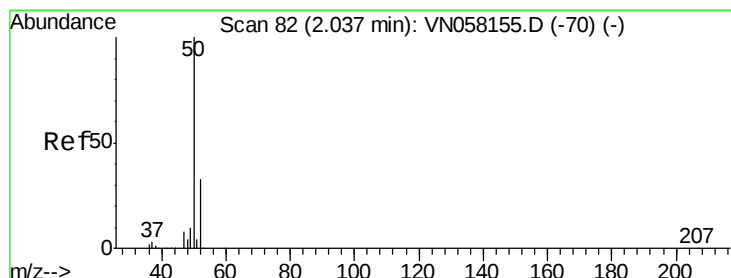
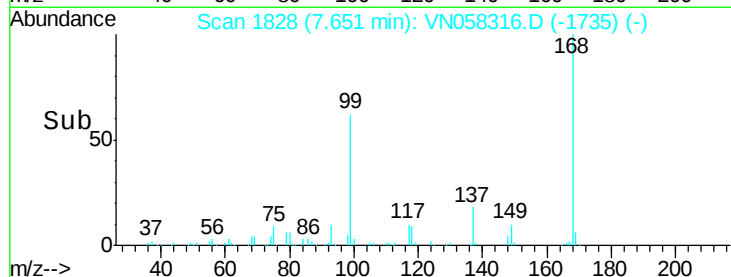
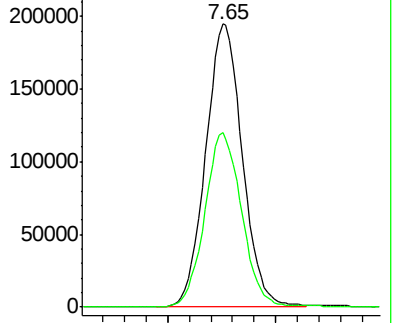
168 100

99 61.9 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 83

Delta R.T. 0.00 min

Lab File: VN058316.D

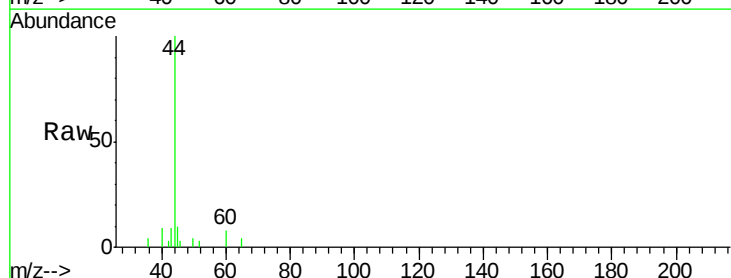
Acq: 24 Sep 2019 00:46

Tgt Ion: 50 Resp: 195

Ion Ratio Lower Upper

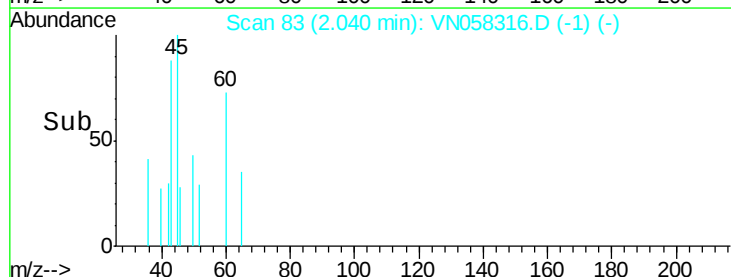
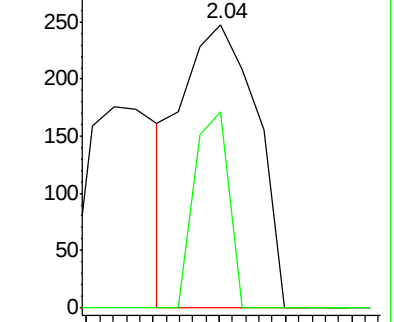
50 100

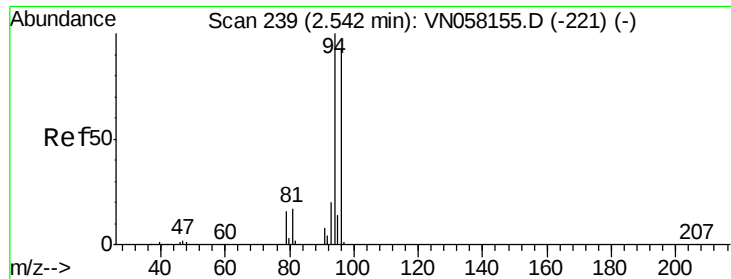
52 69.0 26.3 39.5#



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO





#5

Bromomethane

Concen: 0.825 ug/l

RT: 2.54 min Scan# 239

Delta R.T. 0.00 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

Instrument :

MSVOA_N

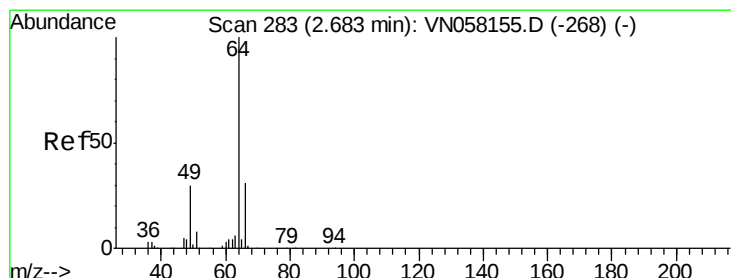
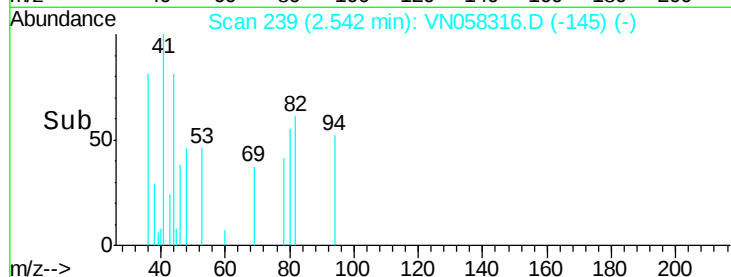
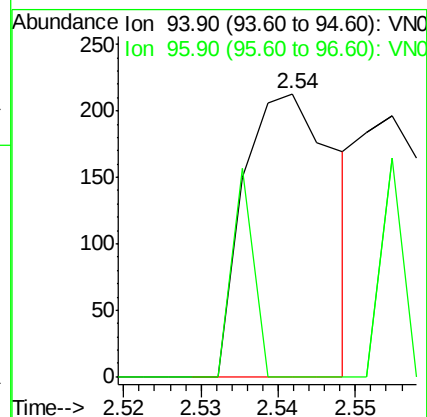
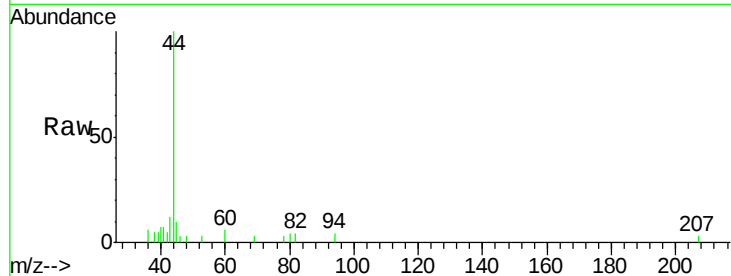
ClientSampled :

Tot Ion: 94 Resp: 176

Ion Ratio Lower Upper

94 100

96 0.0 73.3 109.9#



#6

Chloroethane

Concen: Below Cal

RT: 2.68 min Scan# 281

Delta R.T. -0.01 min

Lab File: VN058316.D

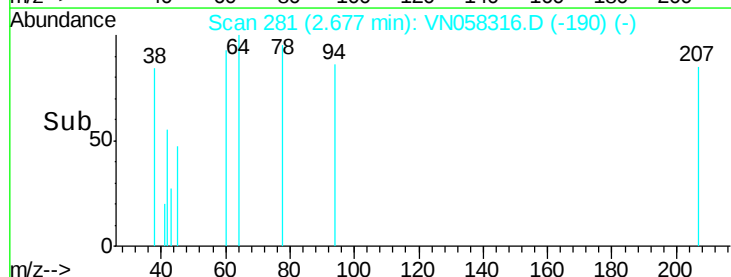
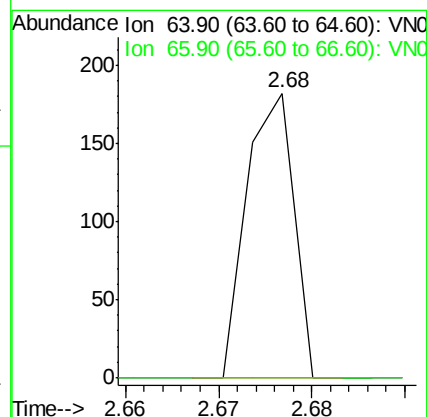
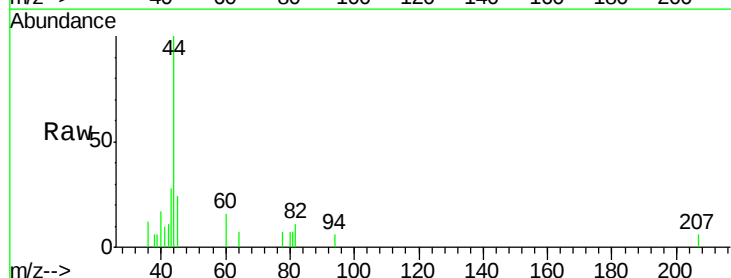
Acq: 24 Sep 2019 00:46

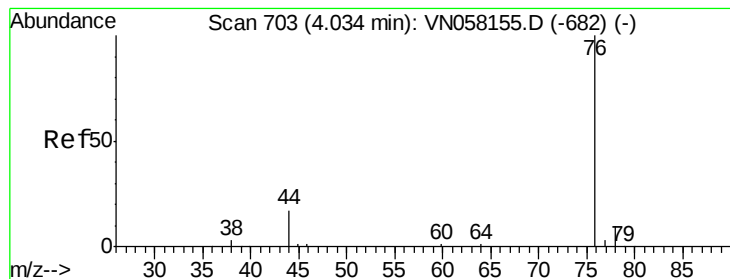
Tgt Ion: 64 Resp: 64

Ion Ratio Lower Upper

64 100

66 0.0 24.6 37.0#





#17

Carbon Disulfide

Concen: 0.294 ug/l

RT: 4.04 min Scan# 704

Delta R.T. 0.00 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

Instrument :

MSVOA_N

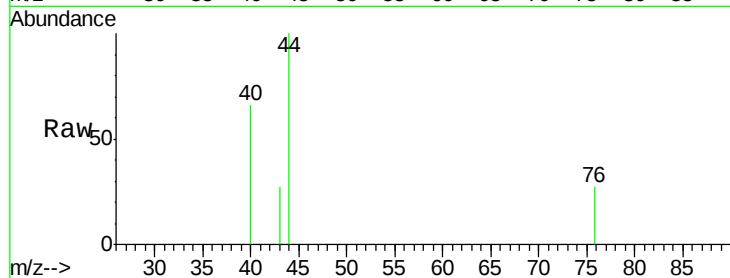
ClientSampleId :

Tot Ion: 76 Resp: 91

Ion Ratio Lower Upper

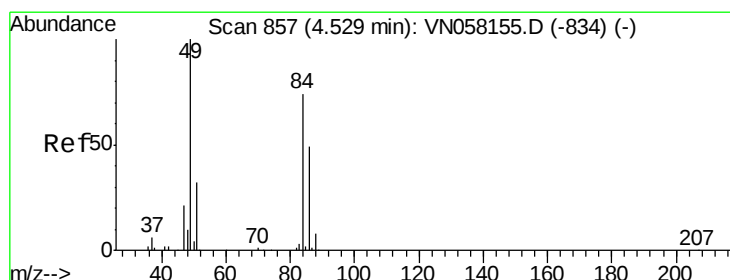
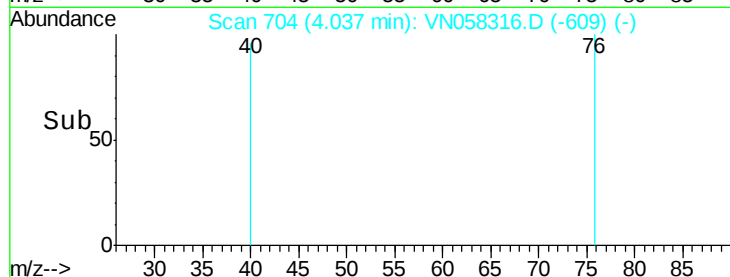
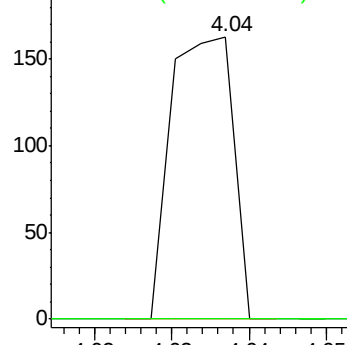
76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VNC

Ion 77.90 (77.60 to 78.60): VNC



#20

Methylene Chloride

Concen: Below Cal

RT: 4.53 min Scan# 857

Delta R.T. 0.00 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

Tgt Ion: 84 Resp: 65

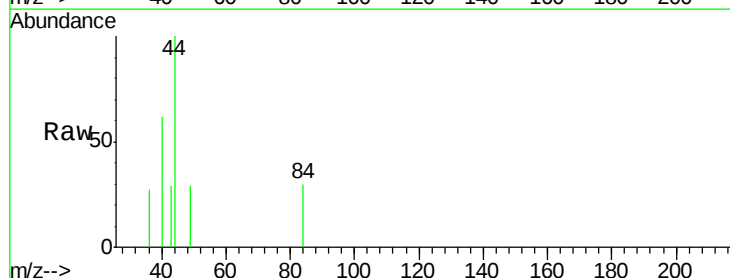
Ion Ratio Lower Upper

84 100

49 96.1 107.5 161.3#

51 0.0 33.9 50.9#

86 0.0 52.4 78.6#

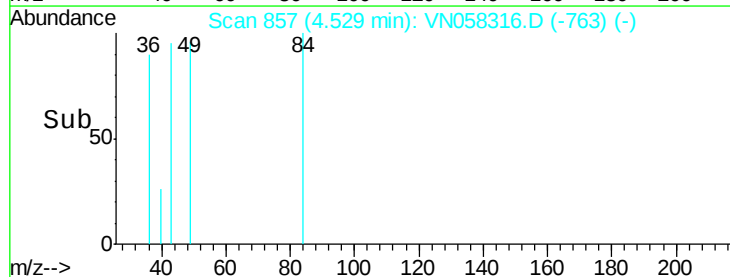
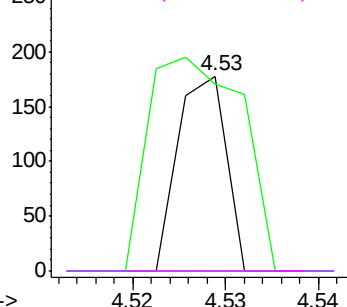


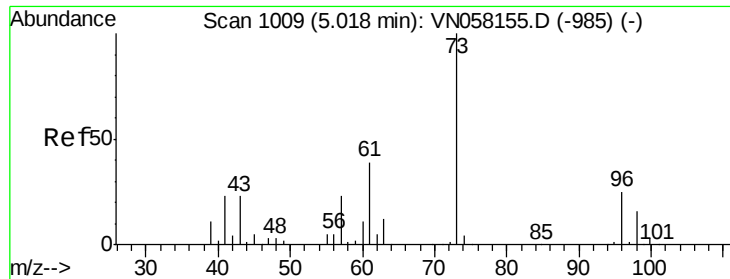
Abundance Ion 83.90 (83.60 to 84.60): VNC

Ion 48.90 (48.60 to 49.60): VNC

Ion 50.90 (50.60 to 51.60): VNC

Ion 85.90 (85.60 to 86.60): VNC

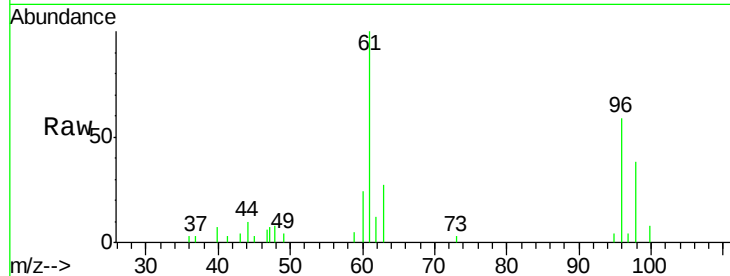




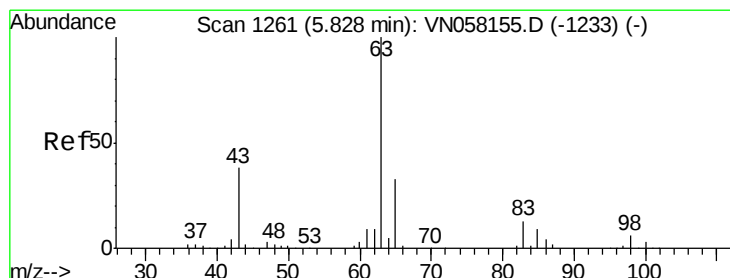
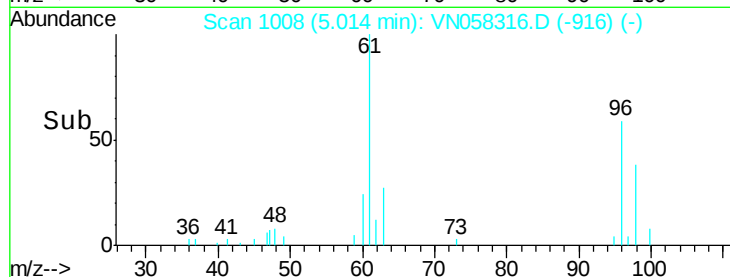
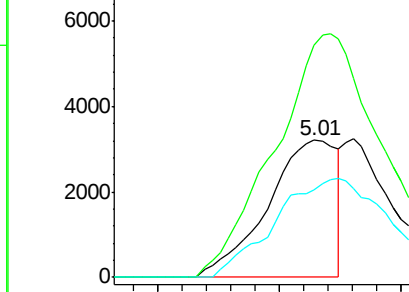
#21
trans-1,2-Dichloroethene
Concen: 1.663 ug/l
RT: 5.01 min Scan# 1008
Delta R.T. -0.00 min
Lab File: VN058316.D
Acq: 24 Sep 2019 00:46

Instrument :
MSVOA_N
ClientSampled :

Tot Ion: 96 Resp: 6322
Ion Ratio Lower Upper
96 100
61 169.6 122.2 183.4
98 63.9 49.9 74.9

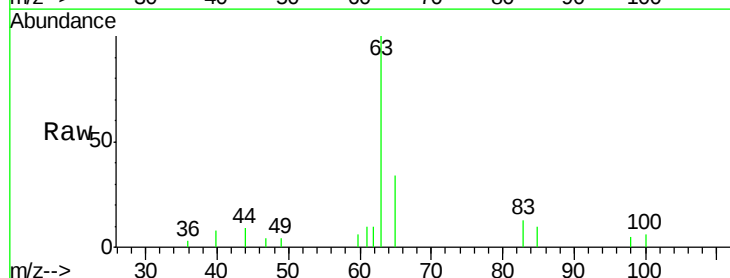


Abundance Ion 95.90 (95.60 to 96.60): VN0
Ion 60.90 (60.60 to 61.60): VN0
Ion 97.90 (97.60 to 98.60): VN0

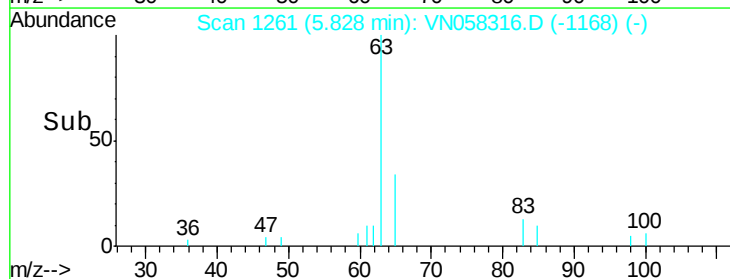
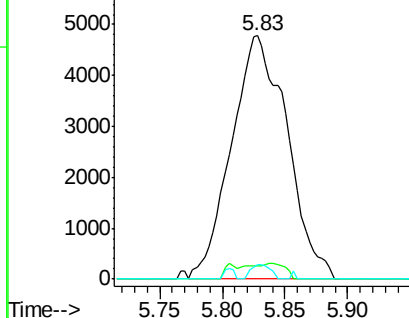


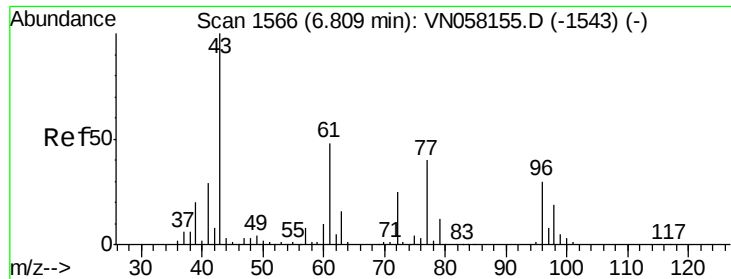
#24
1,1-Dichloroethane
Concen: 1.792 ug/l
RT: 5.83 min Scan# 1261
Delta R.T. -0.00 min
Lab File: VN058316.D
Acq: 24 Sep 2019 00:46

Tgt Ion: 63 Resp: 14803
Ion Ratio Lower Upper
63 100
98 5.5 2.9 8.6
100 5.7 1.8 5.3#



Abundance Ion 62.90 (62.60 to 63.60): VN0
Ion 97.90 (97.60 to 98.60): VN0
Ion 99.90 (99.60 to 100.60): VN0





#27

cis-1,2-Dichloroethene

Concen: 10.912 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.01 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

Instrument :

MSVOA_N

ClientSampleId :

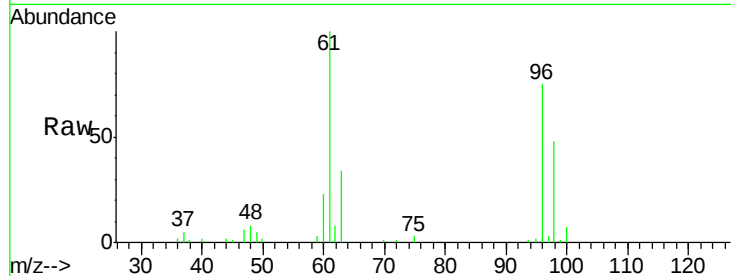
Tot Ion: 96 Resp: 50967

Ion Ratio Lower Upper

96 100

61 135.7 0.0 319.0

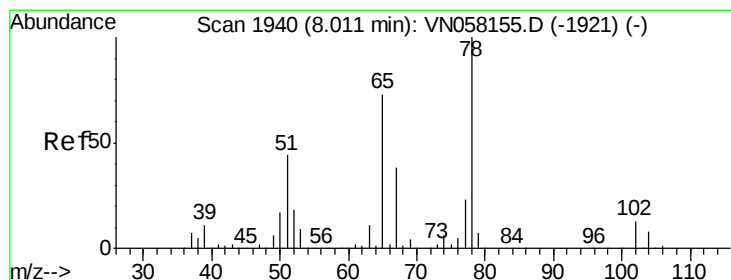
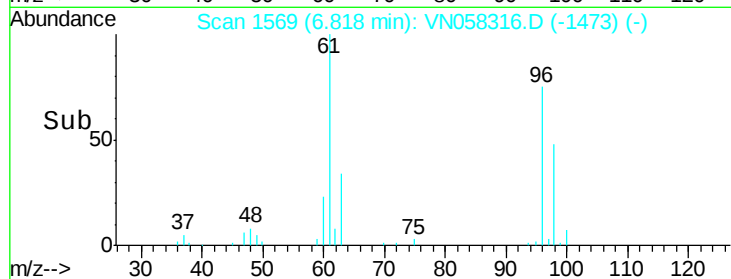
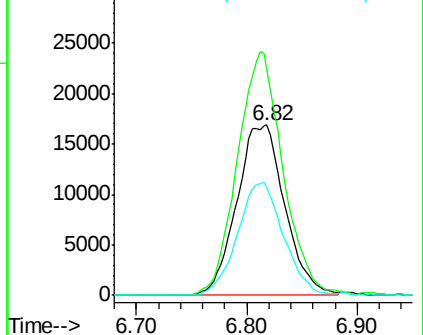
98 63.2 0.0 126.6



Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#33

1,2-Dichloroethane-d4

Concen: 55.474 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN058316.D

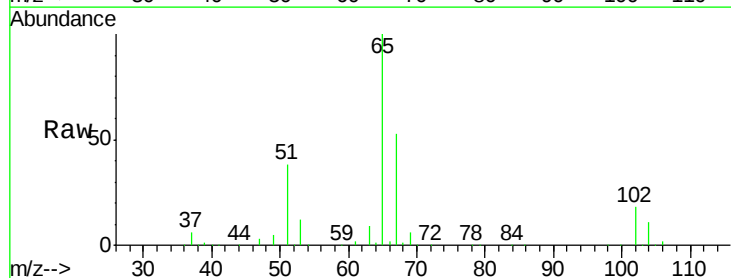
Acq: 24 Sep 2019 00:46

Tgt Ion: 65 Resp: 355860

Ion Ratio Lower Upper

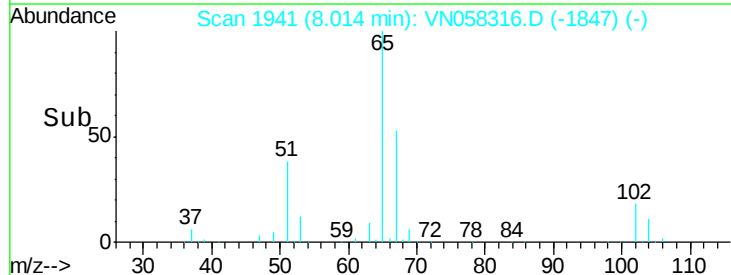
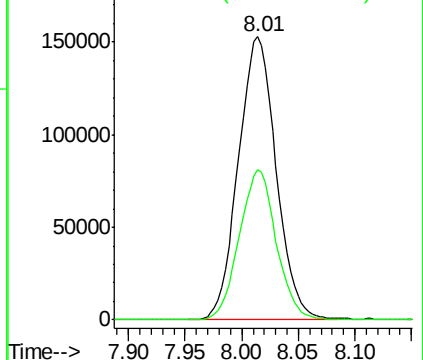
65 100

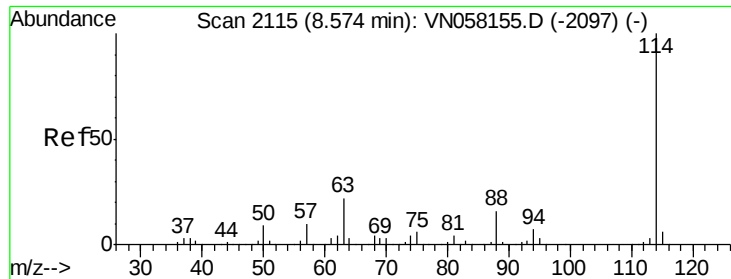
67 51.8 0.0 103.4



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

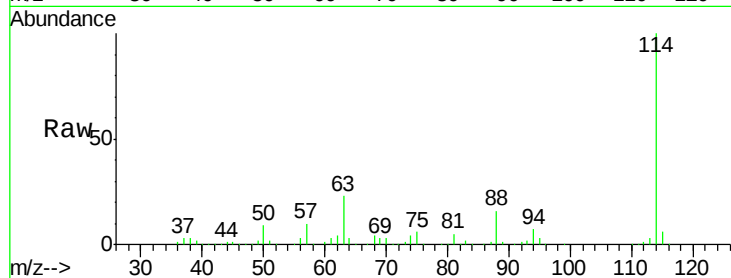




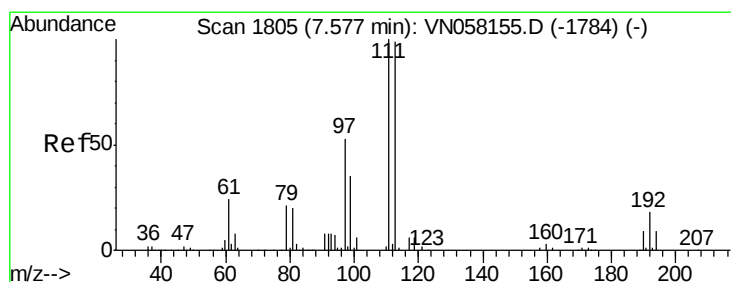
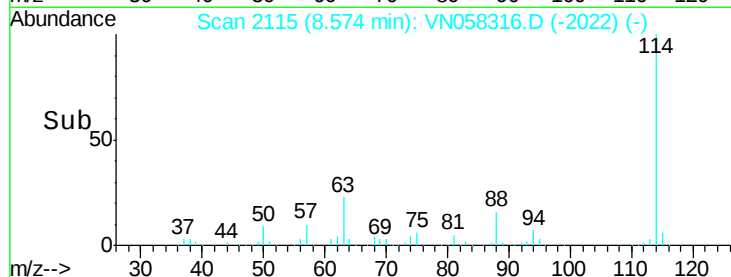
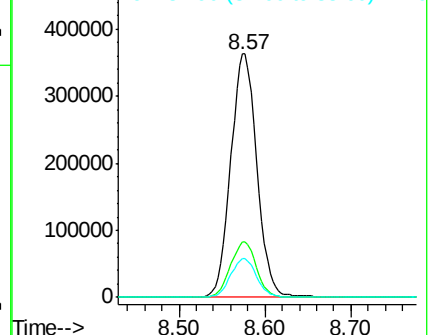
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058316.D
 Acq: 24 Sep 2019 00:46

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:114 Resp: 768132
 Ion Ratio Lower Upper
 114 100
 63 22.5 0.0 44.2
 88 16.0 0.0 31.6

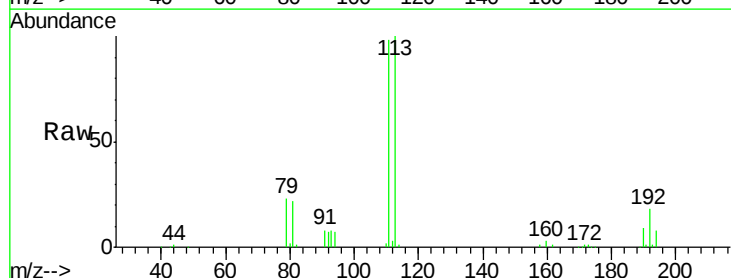


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

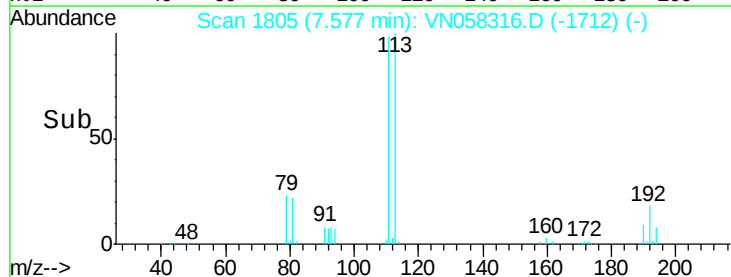
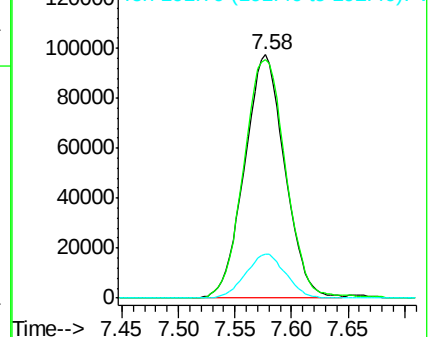


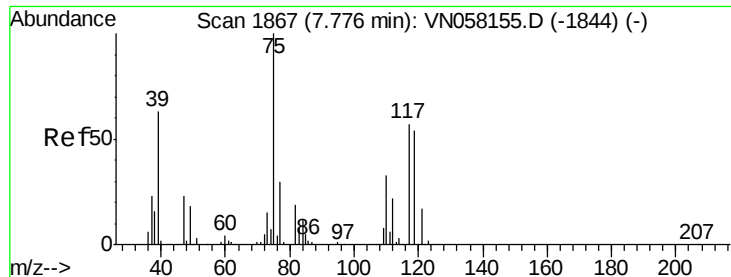
#35
 Dibromofluoromethane
 Concen: 51.595 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. -0.00 min
 Lab File: VN058316.D
 Acq: 24 Sep 2019 00:46

Tgt Ion:113 Resp: 240928
 Ion Ratio Lower Upper
 113 100
 111 103.0 81.8 122.6
 192 18.0 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

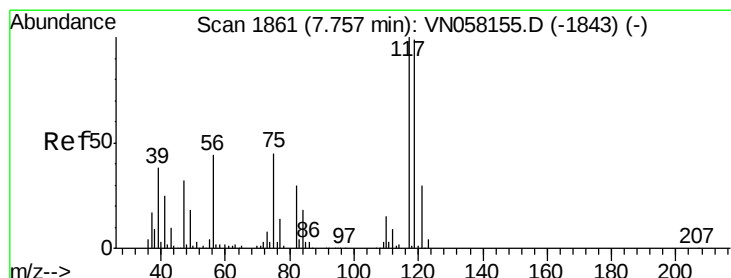
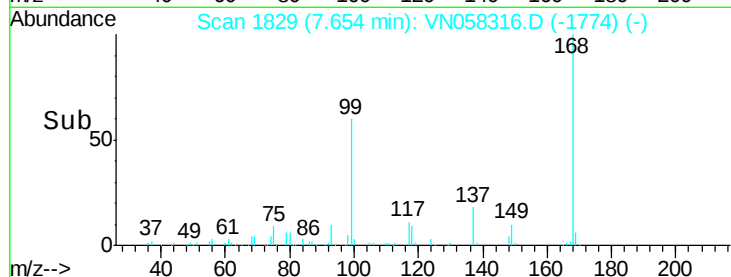
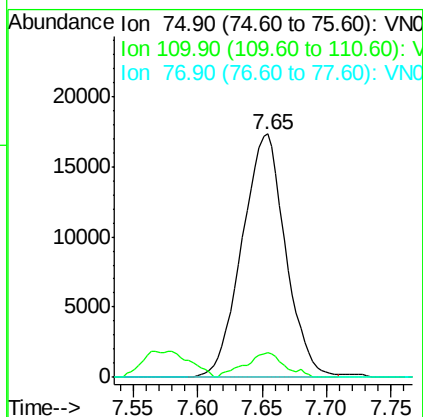
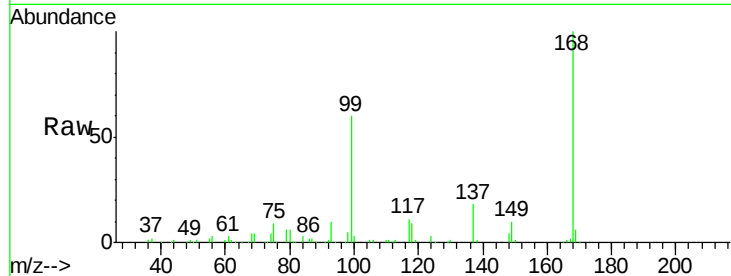




#36
 1,1-Dichloropropene
 Concen: 7.350 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.12 min
 Lab File: VN058316.D
 Acq: 24 Sep 2019 00:46

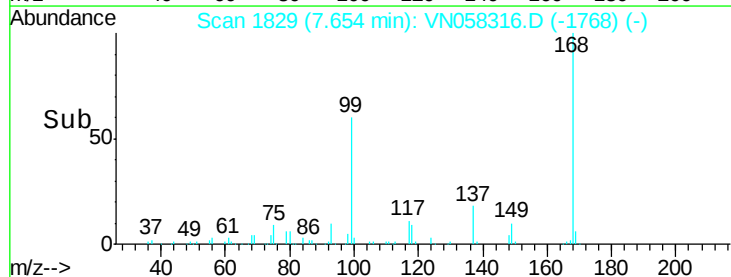
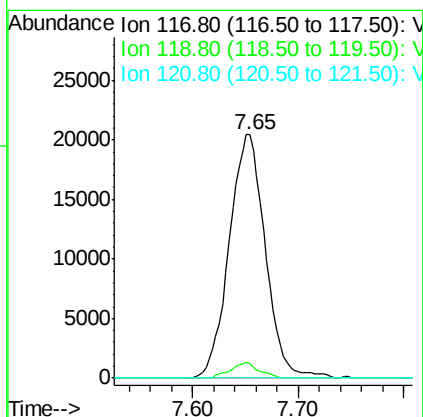
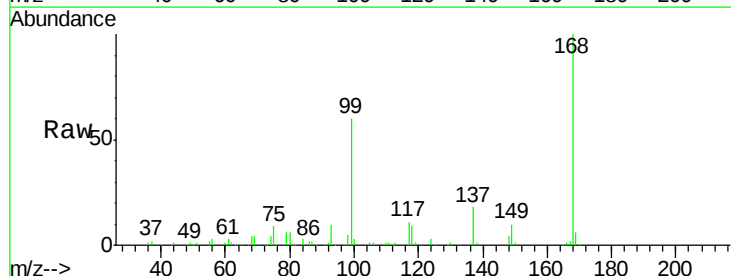
Instrument :
 MSVOA_N
 ClientSampled :

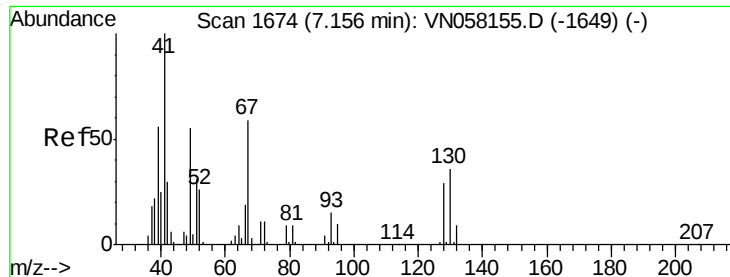
Tot Ion	75	Resp	40716
Ion Ratio	Lower	Upper	
75	100		
110	9.2	16.6	49.7#
77	0.0	24.3	36.5#



#38
 Carbon Tetrachloride
 Concen: 8.708 ug/l
 RT: 7.65 min Scan# 1829
 Delta R.T. -0.10 min
 Lab File: VN058316.D
 Acq: 24 Sep 2019 00:46

Tgt Ion	117	Resp	48491
Ion Ratio <td>Lower</td> <td>Upper</td> <td></td>	Lower	Upper	
117	100		
119	5.8	78.6	117.8#
121	0.0	24.1	36.1#

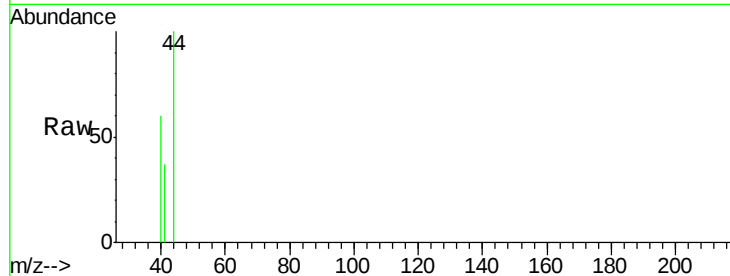




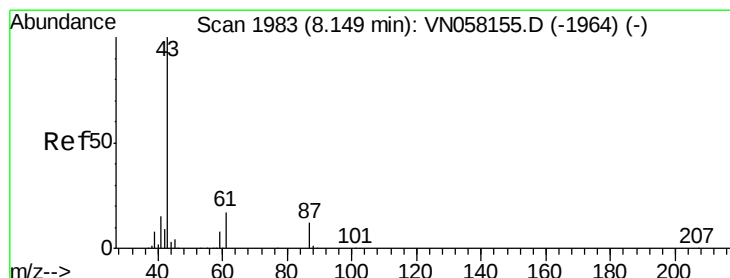
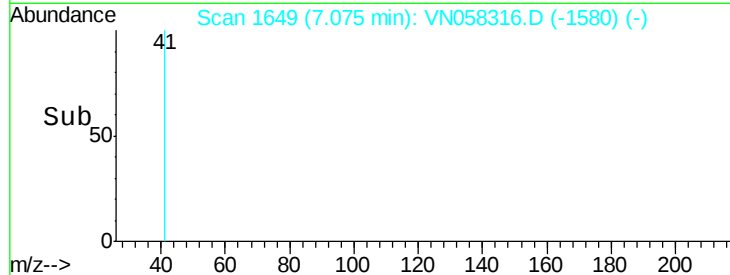
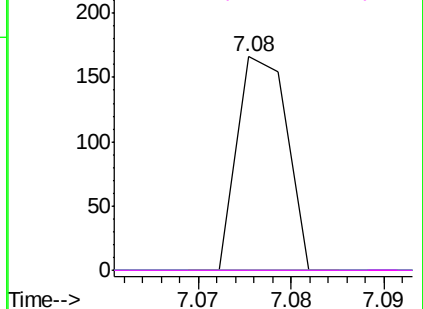
#41
Methacrylonitrile
Concen: 0.932 ug/l
RT: 7.08 min Scan# 1649
Delta R.T. -0.08 min
Lab File: VN058316.D
Acq: 24 Sep 2019 00:46

Instrument :
MSVOA_N
ClientSampled :

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

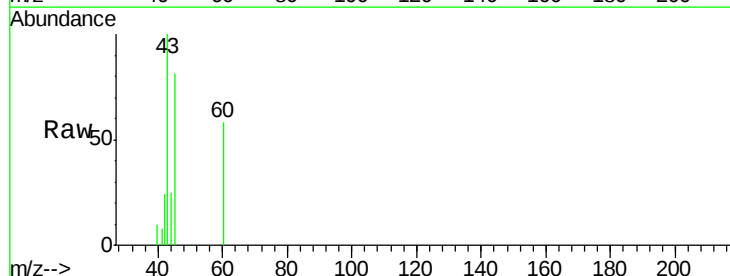


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 39.00 (38.70 to 39.70): VN0
Ion 67.00 (66.70 to 67.70): VN0
Ion 52.00 (51.70 to 52.70): VN0

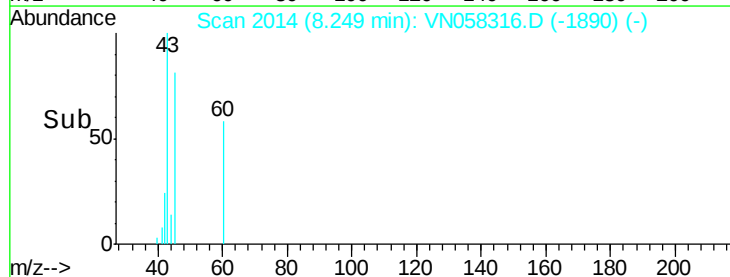
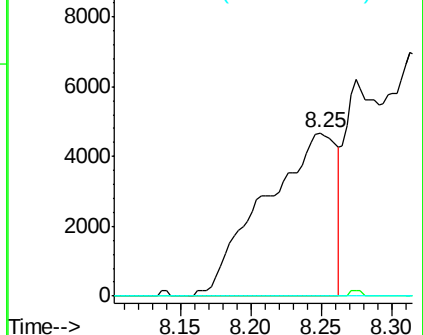


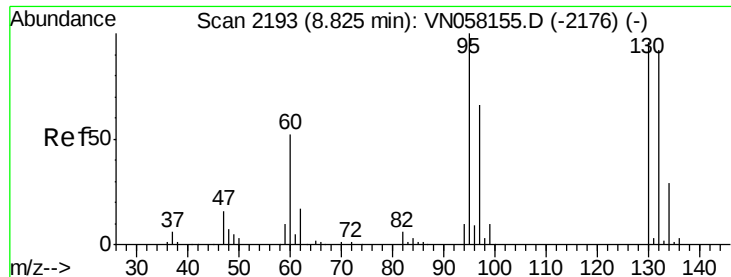
#43
Isopropyl Acetate
Concen: 1.539 ug/l
RT: 8.25 min Scan# 2014
Delta R.T. 0.10 min
Lab File: VN058316.D
Acq: 24 Sep 2019 00:46

Tgt Ion:	43	Resp:	16521
Ion	Ratio	Lower	Upper
43	100		
61	0.0	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

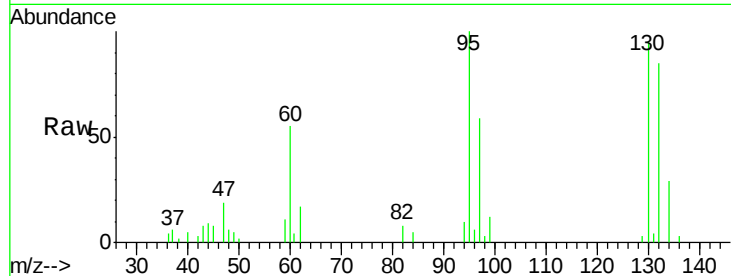




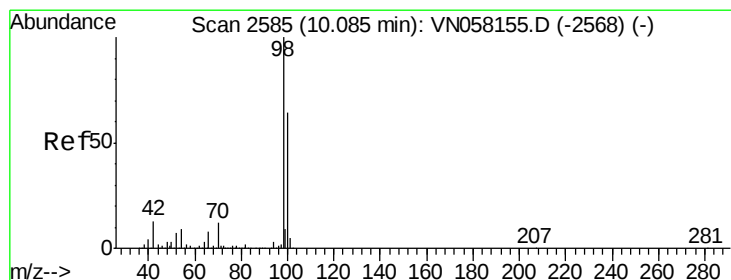
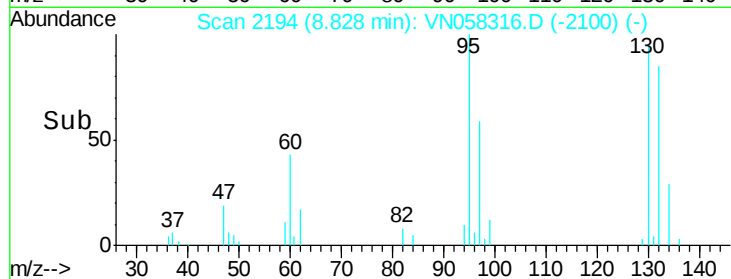
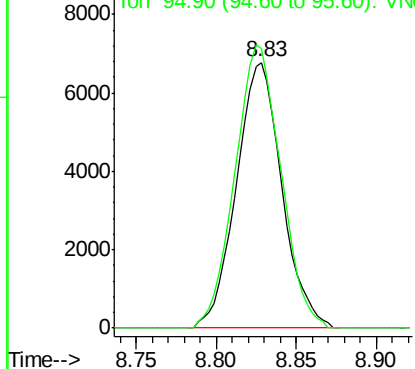
#44
 Trichloroethene
 Concen: 3.175 ug/l
 RT: 8.83 min Scan# 2194
 Delta R.T. 0.00 min
 Lab File: VN058316.D
 Acq: 24 Sep 2019 00:46

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:130 Resp: 13144
 Ion Ratio Lower Upper
 130 100
 95 105.1 0.0 207.8

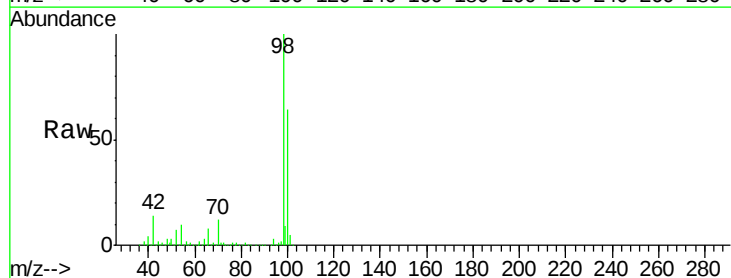


Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VN

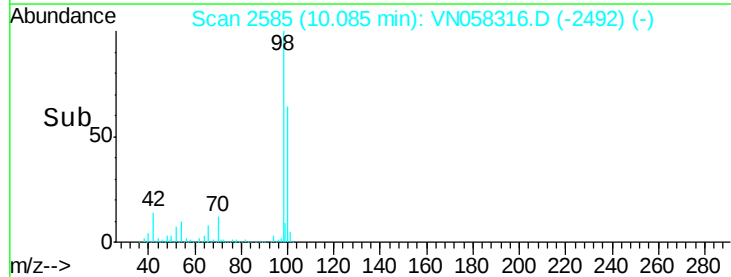
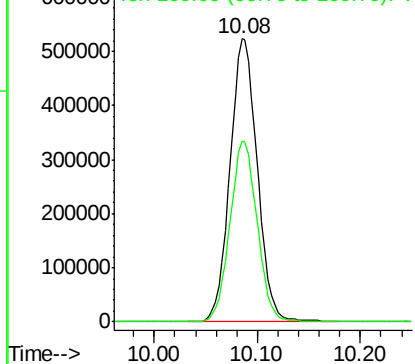


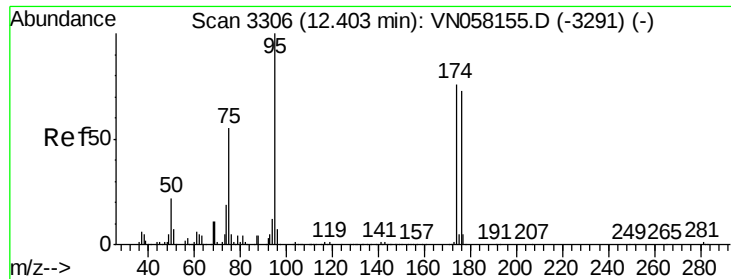
#50
 Toluene-d8
 Concen: 53.130 ug/l
 RT: 10.08 min Scan# 2585
 Delta R.T. -0.00 min
 Lab File: VN058316.D
 Acq: 24 Sep 2019 00:46

Tgt Ion: 98 Resp: 966643
 Ion Ratio Lower Upper
 98 100
 100 63.8 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN
 Ion 100.00 (99.70 to 100.70): VN





#62

4-Bromofluorobenzene

Concen: 45.103 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

Instrument :

MSVOA_N

ClientSampleId :

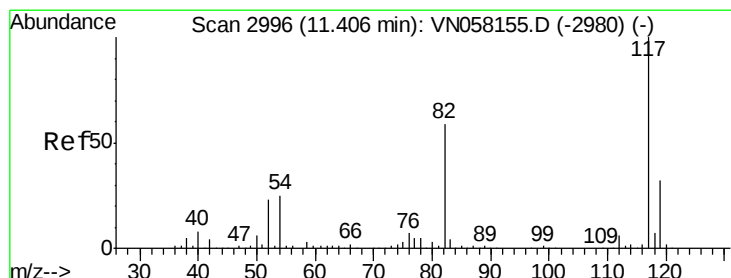
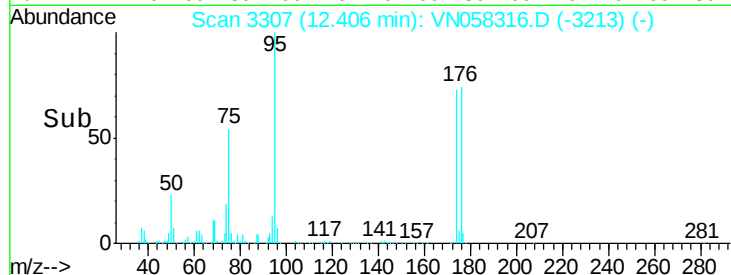
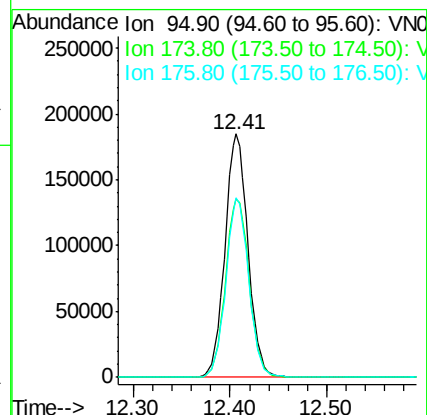
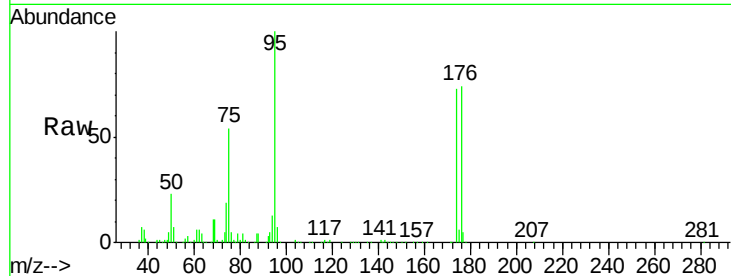
Tot Ion: 95 Resp: 304821

Ion Ratio Lower Upper

95 100

174 75.1 0.0 152.2

176 73.2 0.0 148.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

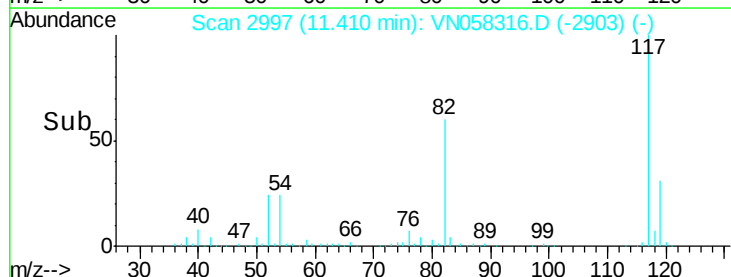
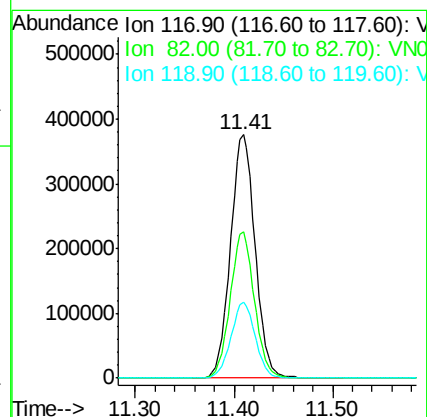
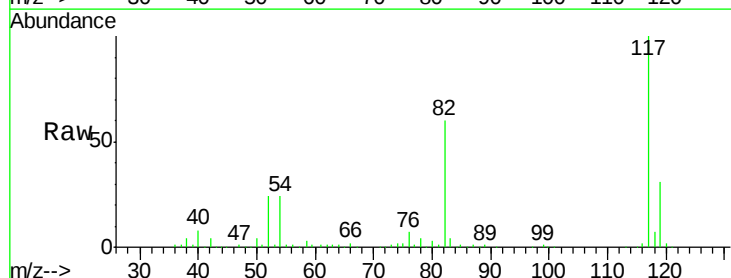
Tgt Ion: 117 Resp: 656678

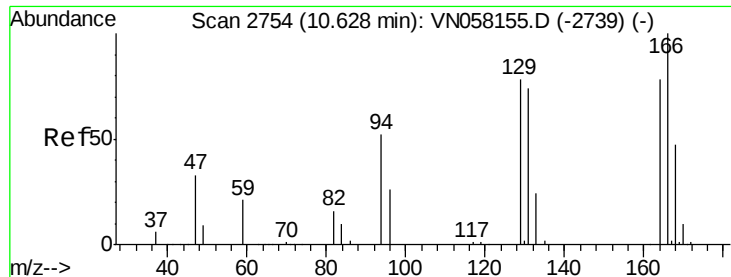
Ion Ratio Lower Upper

117 100

82 59.9 46.9 70.3

119 31.3 25.3 37.9





#64

Tetrachloroethene

Concen: 0.303 ug/l

RT: 10.63 min Scan# 2755

Delta R.T. 0.00 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

Instrument :

MSVOA_N

ClientSampleId :

Tot Ion:164 Resp: 971

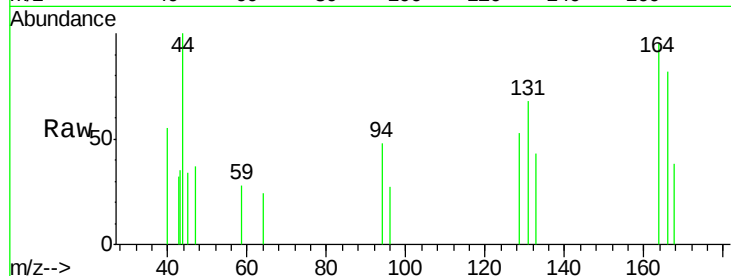
Ion Ratio Lower Upper

164 100

166 85.9 102.2 153.4#

129 55.9 79.6 119.4#

131 71.3 76.0 114.0#

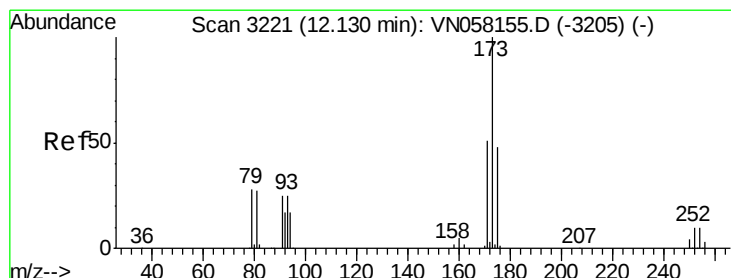
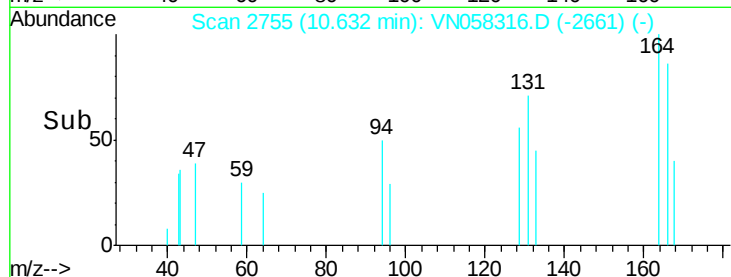
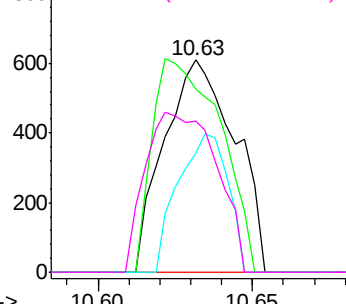


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#71

Bromoform

Concen: 3.646 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.26 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

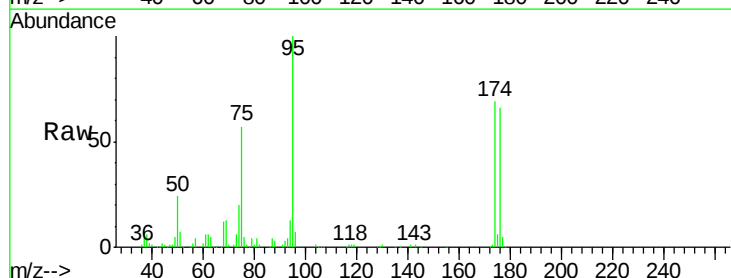
Tgt Ion:173 Resp: 169

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

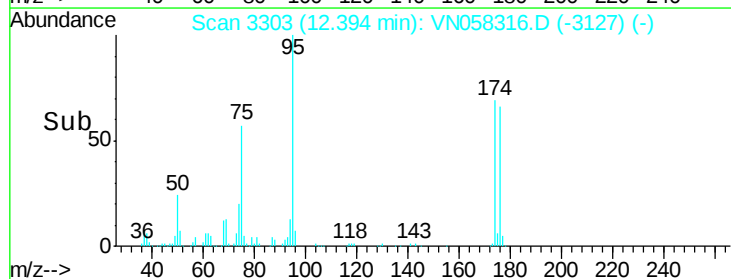
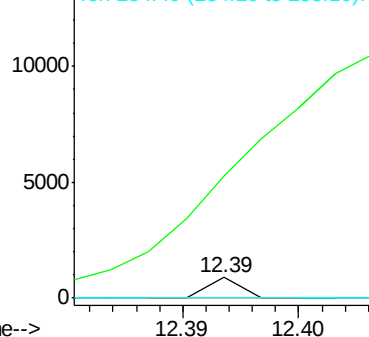
254 0.0 0.1 0.1#

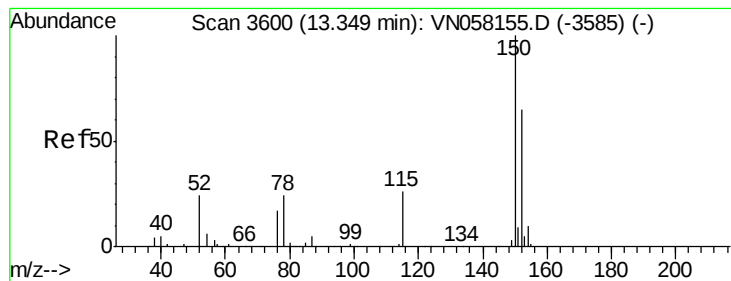


Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

Instrument :

MSVOA_N

ClientSampleId :

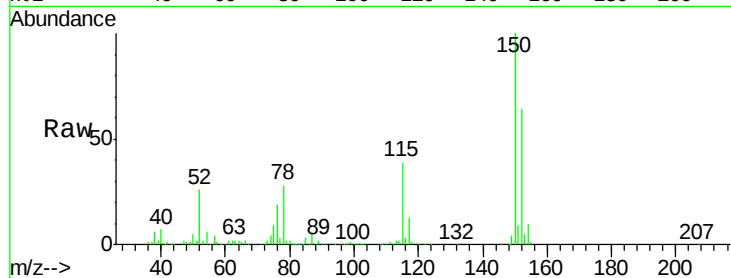
Tot Ion:152 Resp: 257556

Ion Ratio Lower Upper

152 100

115 62.2 30.1 90.3

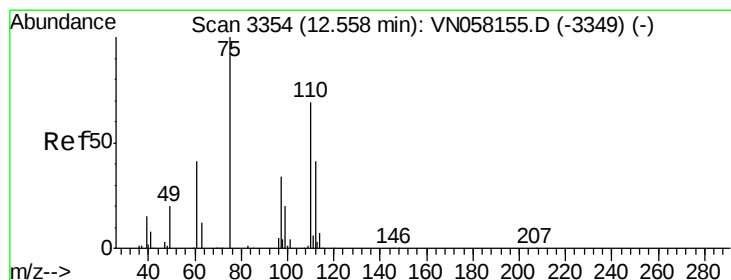
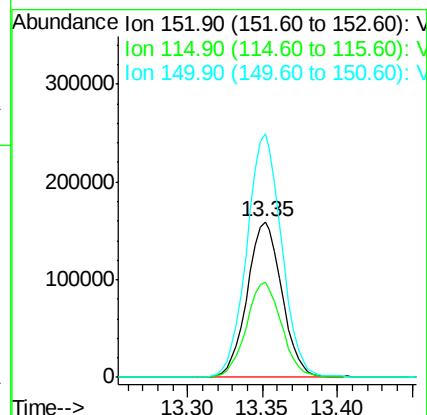
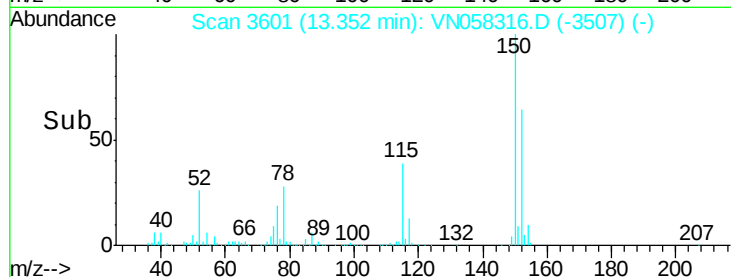
150 157.1 0.0 346.4



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: 36.413 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058316.D

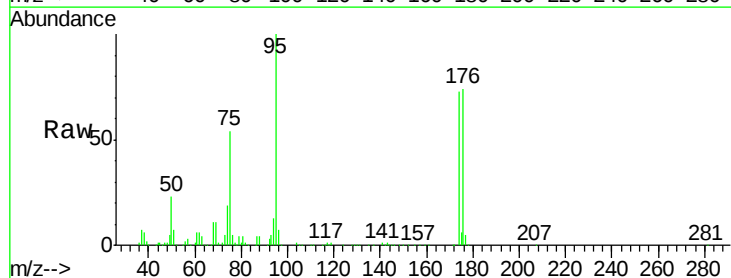
Acq: 24 Sep 2019 00:46

Tgt Ion: 75 Resp: 167844

Ion Ratio Lower Upper

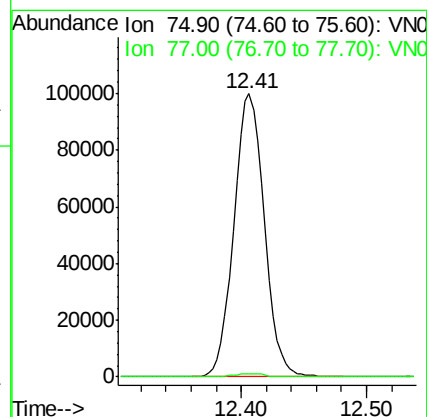
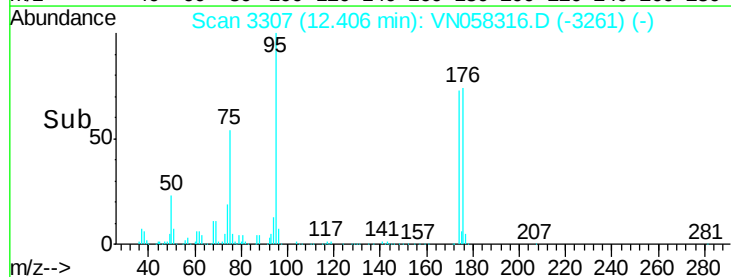
75 100

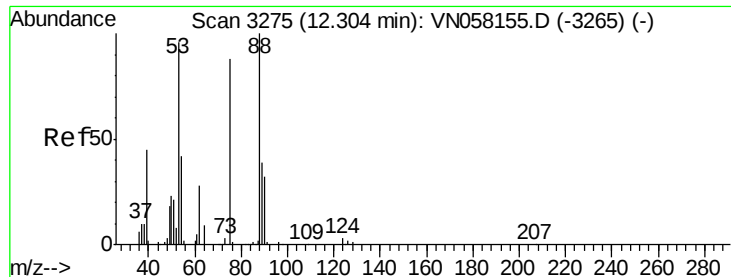
77 1.0 0.0 0.0#



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: 101.627 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058316.D

Acq: 24 Sep 2019 00:46

Instrument :

MSVOA_N

ClientSampleId :

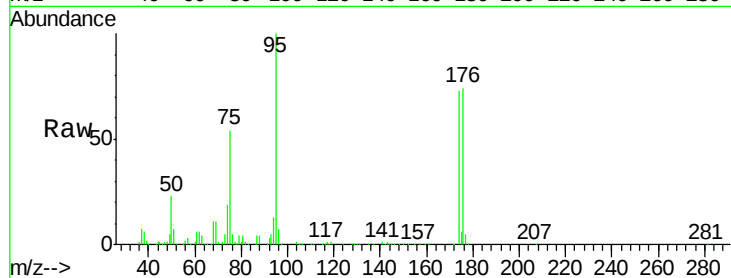
Tot Ion: 75 Resp: 167844

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): VNO
Ion 53.00 (52.70 to 53.70): VNO
Ion 88.90 (88.60 to 89.60): VNO

