

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN092319\
 Data File : VN058293.D
 Acq On : 23 Sep 2019 15:29
 Operator : JC/SP
 Sample : K4939-01MEDL 5X
 Misc : 6.52g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 24 01:33:20 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	436826	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	706898	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	606090	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	245205	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	319749	52.55	ug/l	0.00
Spiked Amount			Recovery	=	105.10%	
35) Dibromofluoromethane	7.57	113	217946	50.72	ug/l	0.00
Spiked Amount			Recovery	=	101.44%	
50) Toluene-d8	10.08	98	904937	54.05	ug/l	0.00
Spiked Amount			Recovery	=	108.10%	
62) 4-Bromofluorobenzene	12.41	95	287217	46.18	ug/l	0.00
Spiked Amount			Recovery	=	92.36%	

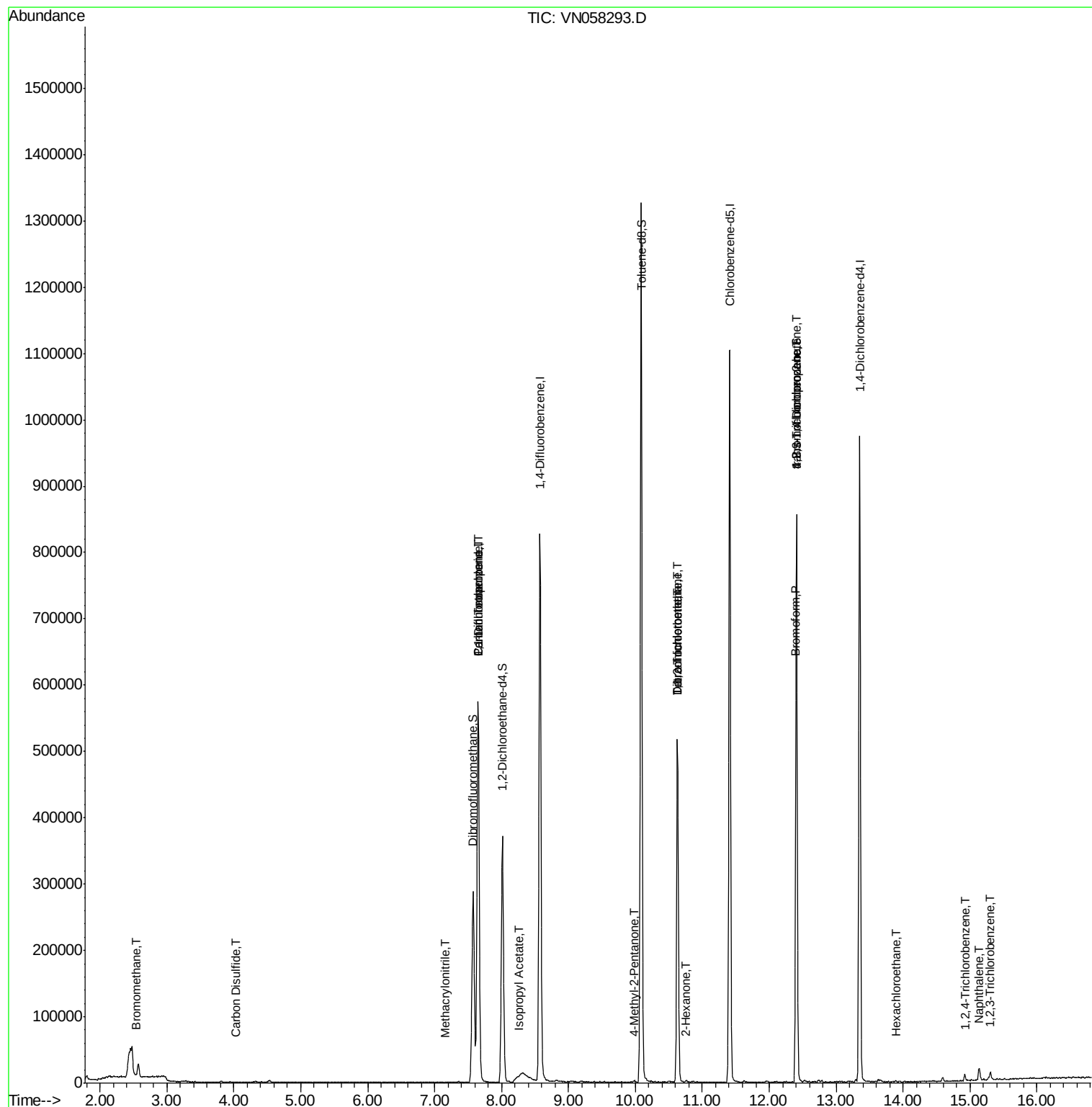
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	643	Below Cal	#	42
5) Bromomethane	2.54	94	171	0.828	ug/l #	56
6) Chloroethane	2.77	64	29	Below Cal	#	44
17) Carbon Disulfide	4.02	76	779	0.476	ug/l #	74
20) Methylene Chloride	4.54	84	403	Below Cal	#	28
21) trans-1,2-Dichloroethene	5.01	96	151	Below Cal	#	1
31) Cyclohexane	7.65	56	11445	Below Cal	#	17
36) 1,1-Dichloropropene	7.65	75	37740	7.403	ug/l #	51
38) Carbon Tetrachloride	7.65	117	45688	8.916	ug/l #	15
41) Methacrylonitrile	7.17	41	129	0.958	ug/l #	100
43) Isopropyl Acetate	8.27	43	13636	1.380	ug/l #	57
51) 4-Methyl-2-Pentanone	9.98	43	2733	0.521	ug/l #	73
55) 1,1,2-Trichloroethane	10.63	97	1197	0.276	ug/l #	35
59) 2-Hexanone	10.76	43	2095	0.538	ug/l	99
60) Dibromochloromethane	10.63	129	106120	25.472	ug/l #	11
64) Tetrachloroethene	10.63	164	114324	38.694	ug/l	98
71) Bromoform	12.39	173	56	3.613	ug/l #	29
76) 1,2,3-Trichloropropane	12.41	75	156652	35.697	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.41	75	156652	99.742	ug/l #	5
90) Hexachloroethane	13.88	117	66	2.849	ug/l #	12
93) 1,2,4-Trichlorobenzene	14.92	180	3205	0.709	ug/l	96
95) Naphthalene	15.14	128	15707	1.341	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.30	180	4050	0.948	ug/l	94

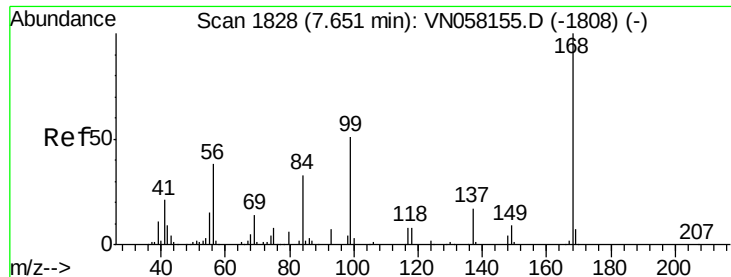
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Thu Sep 19 09:27:53 2019
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: VN058293.D

Acq: 23 Sep 2019 15:29

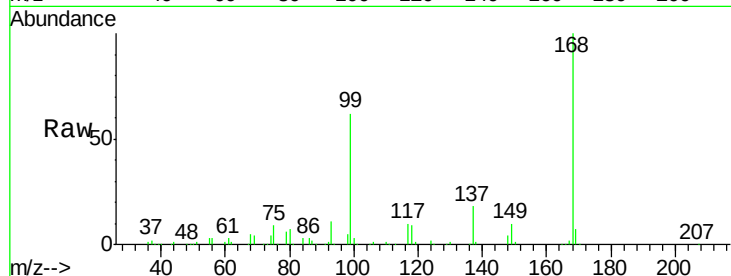
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 436826

Ion Ratio Lower Upper

168 100

99 61.7 47.4 71.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.65

200000

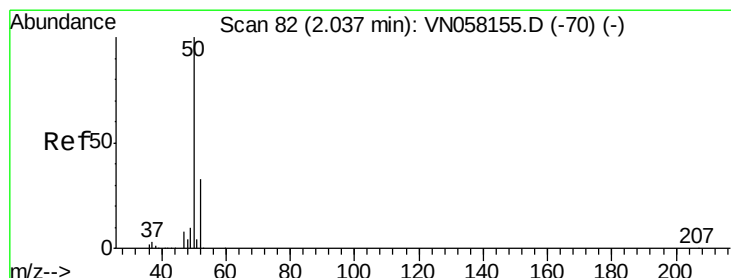
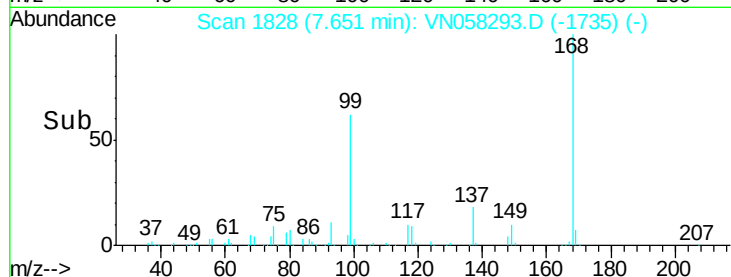
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN058293.D

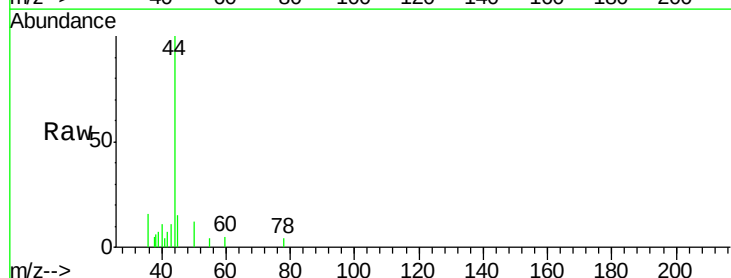
Acq: 23 Sep 2019 15:29

Tgt Ion: 50 Resp: 643

Ion Ratio Lower Upper

50 100

52 0.0 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

600

500

400

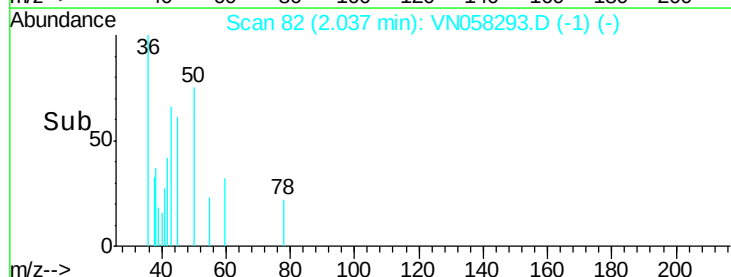
300

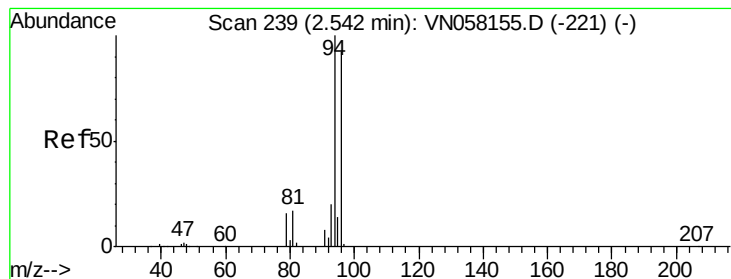
200

100

0

Time-->





#5

Bromomethane

Concen: 0.828 ug/l

RT: 2.54 min Scan# 238

Delta R.T. -0.00 min

Lab File: VN058293.D

Acq: 23 Sep 2019 15:29

Instrument :

MSVOA_N

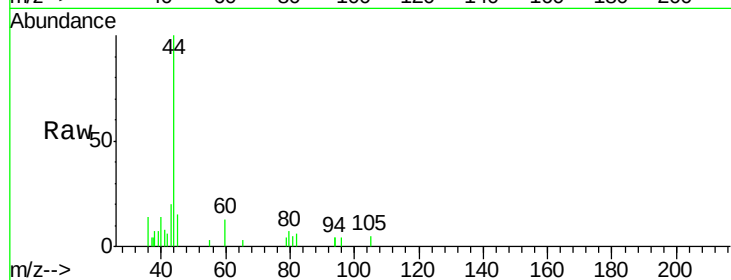
ClientSampled :

Tot Ion: 94 Resp: 171

Ion Ratio Lower Upper

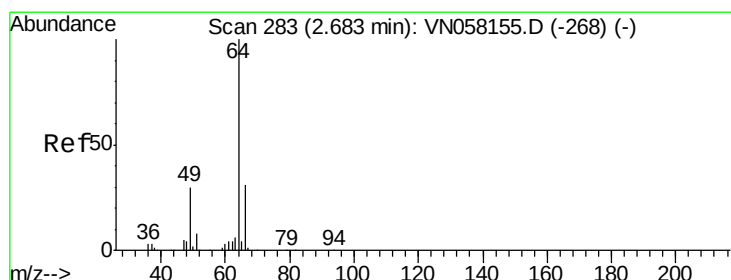
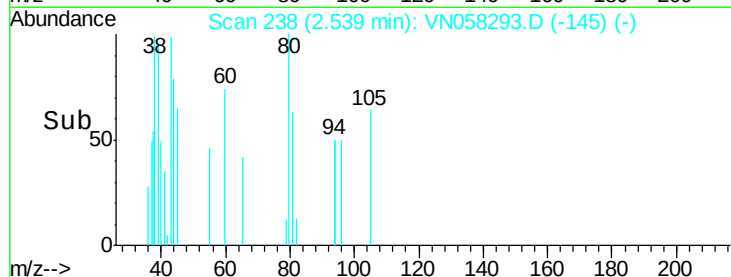
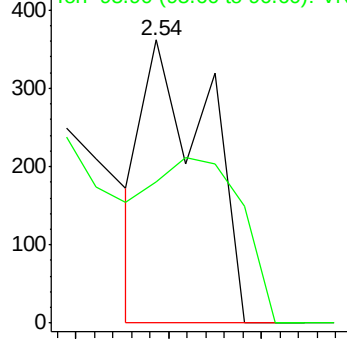
94 100

96 50.0 73.3 109.9#



Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: Below Cal

RT: 2.77 min Scan# 310

Delta R.T. 0.09 min

Lab File: VN058293.D

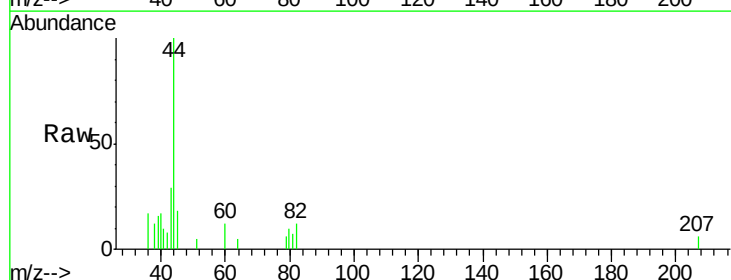
Acq: 23 Sep 2019 15:29

Tgt Ion: 64 Resp: 29

Ion Ratio Lower Upper

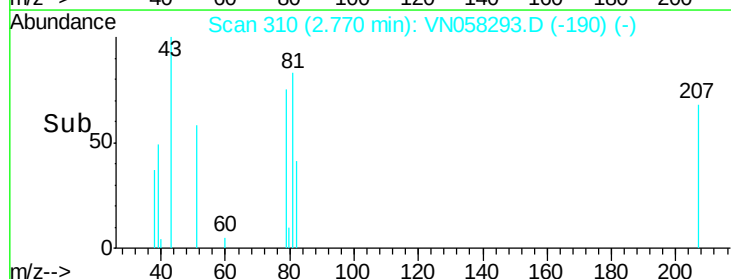
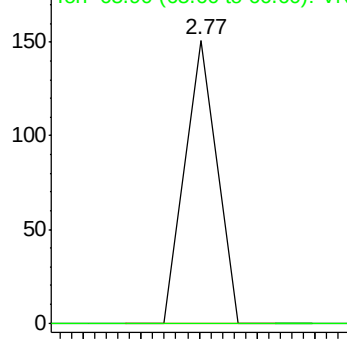
64 100

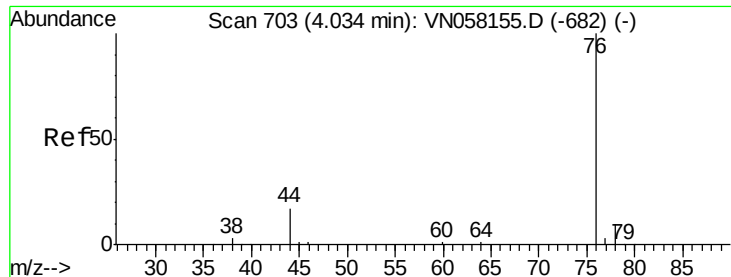
66 0.0 24.6 37.0#



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#17

Carbon Disulfide

Concen: 0.476 ug/l

RT: 4.02 min Scan# 700

Delta R.T. -0.01 min

Lab File: VN058293.D

Acq: 23 Sep 2019 15:29

Instrument :

MSVOA_N

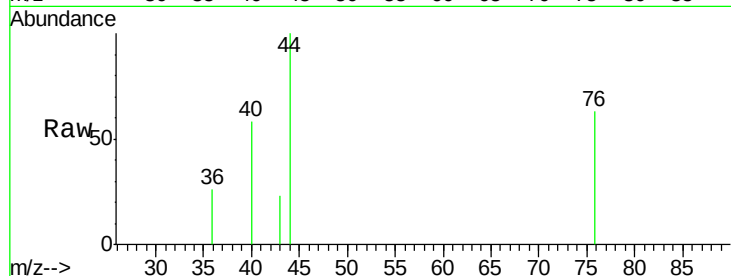
ClientSampled :

Tot Ion: 76 Resp: 779

Ion Ratio Lower Upper

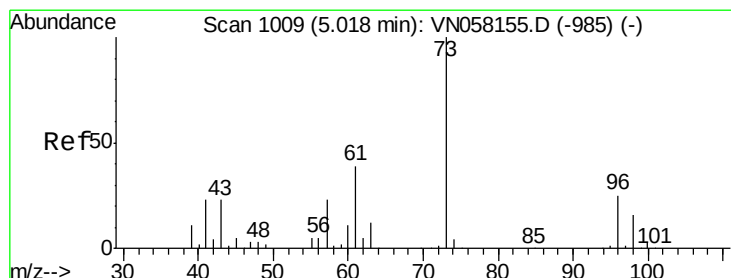
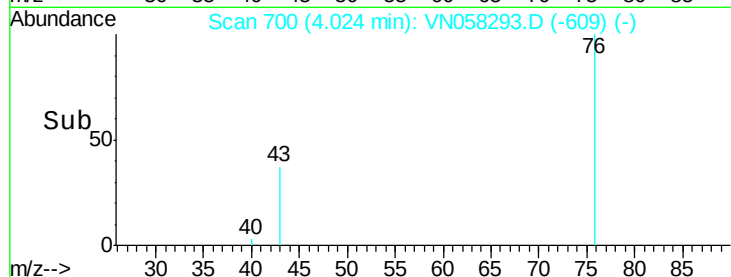
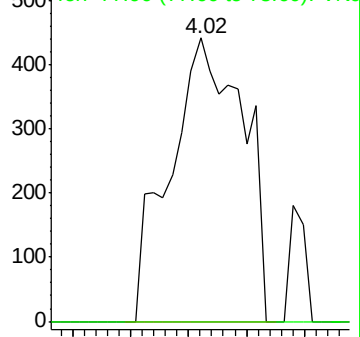
76 100

78 0.0 7.7 11.5#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#21

trans-1,2-Dichloroethene

Concen: Below Cal

RT: 5.01 min Scan# 1007

Delta R.T. -0.01 min

Lab File: VN058293.D

Acq: 23 Sep 2019 15:29

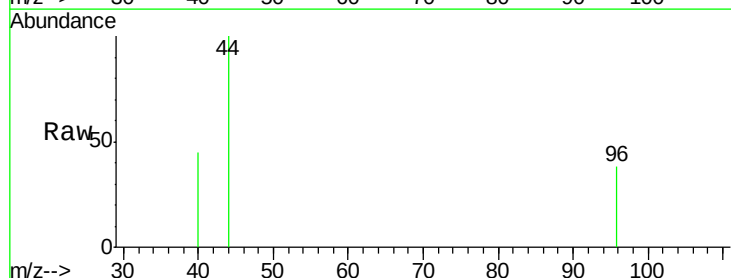
Tgt Ion: 96 Resp: 151

Ion Ratio Lower Upper

96 100

61 0.0 122.2 183.4#

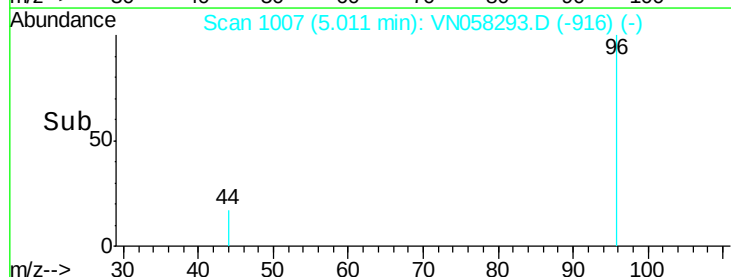
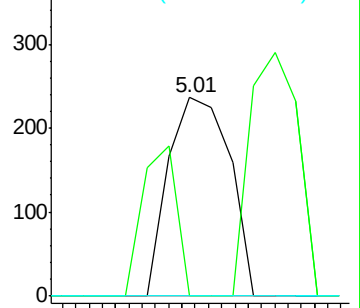
98 0.0 49.9 74.9#

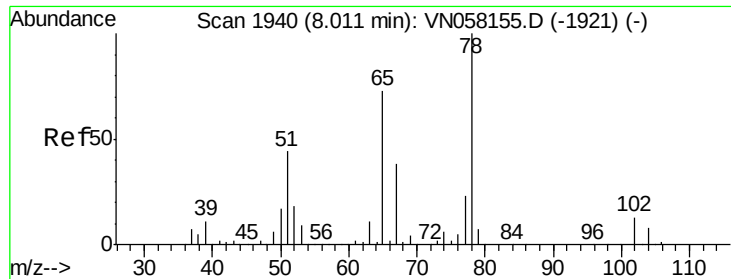


Abundance Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

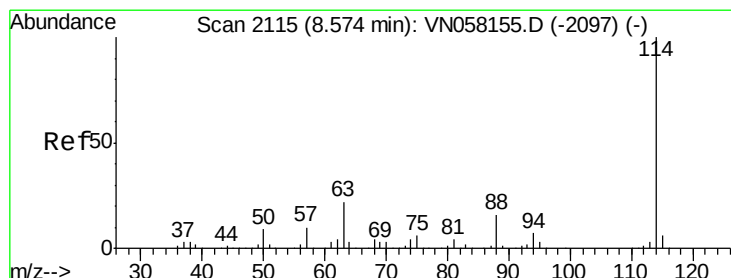
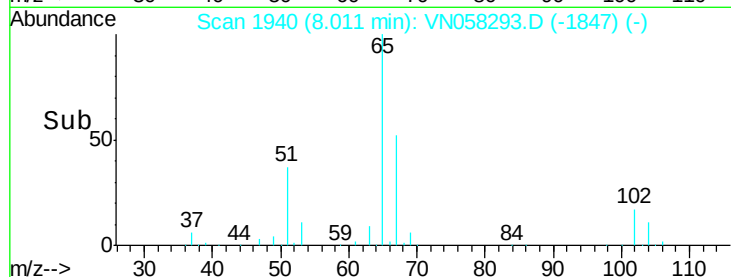
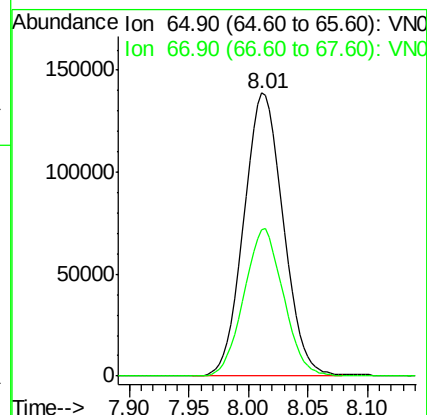
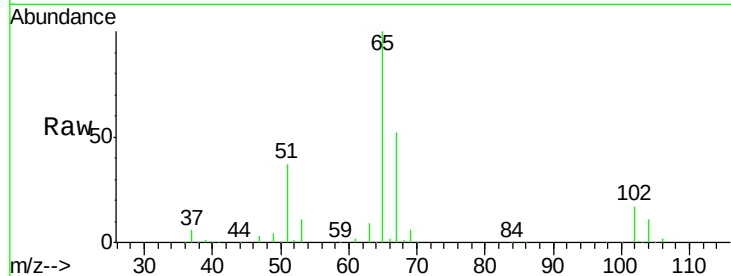




#33
 1,2-Dichloroethane-d4
 Concen: 52.555 ug/l
 RT: 8.01 min Scan# 1940
 Delta R.T. -0.00 min
 Lab File: VN058293.D
 Acq: 23 Sep 2019 15:29

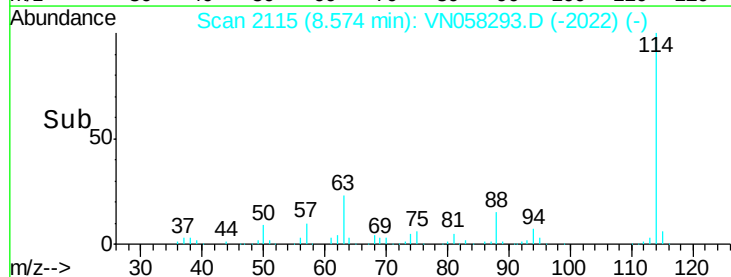
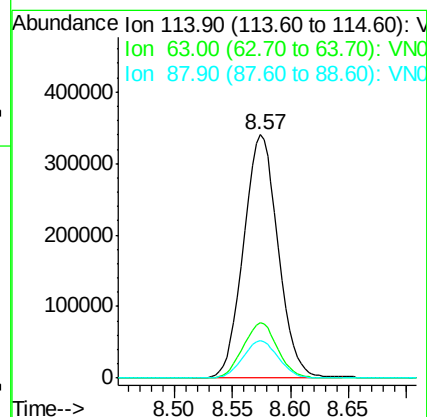
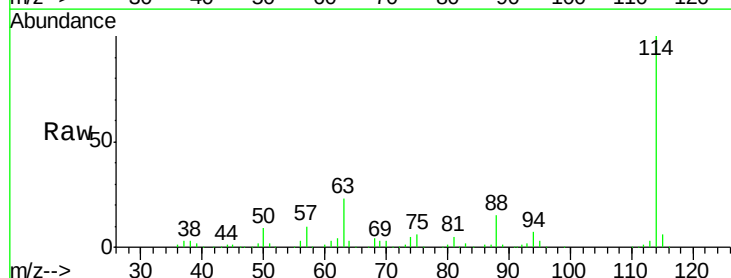
Instrument :
 MSVOA_N
 ClientSampled :

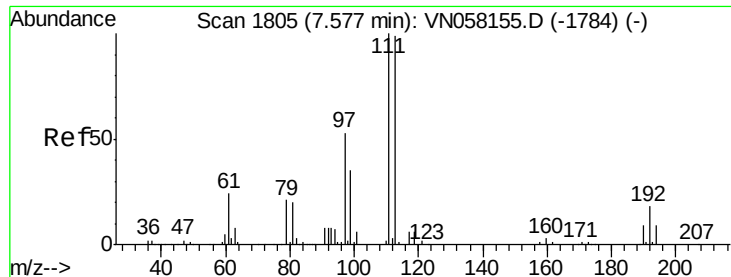
Tot Ion: 65 Resp: 319749
 Ion Ratio Lower Upper
 65 100
 67 52.1 0.0 103.4



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. -0.00 min
 Lab File: VN058293.D
 Acq: 23 Sep 2019 15:29

Tgt Ion: 114 Resp: 706898
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 44.2
 88 15.4 0.0 31.6

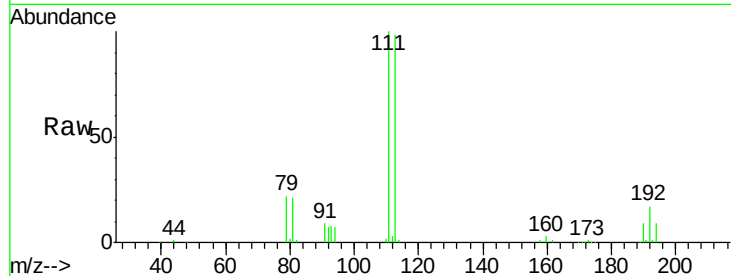




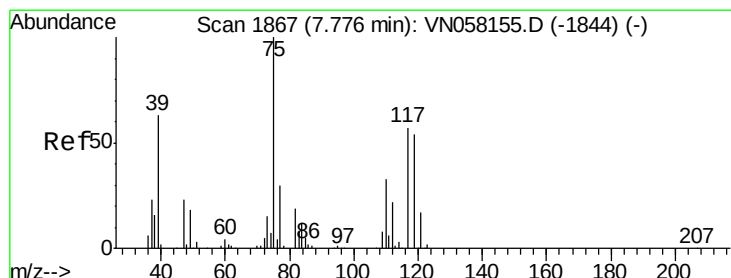
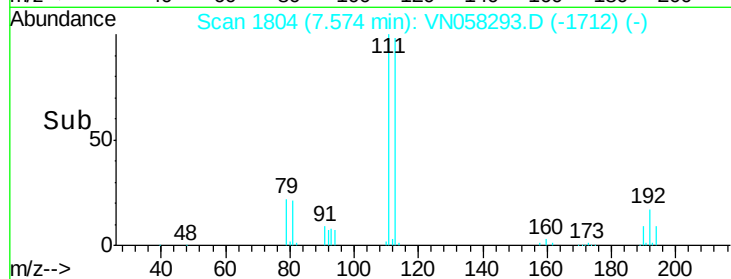
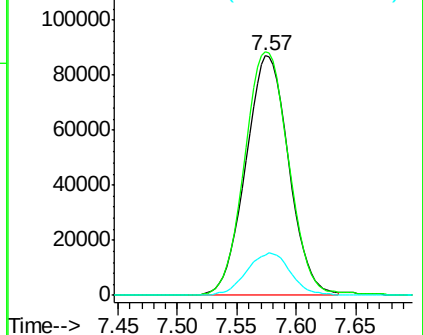
#35
 Dibromofluoromethane
 Concen: 50.716 ug/l
 RT: 7.57 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VN058293.D
 Acq: 23 Sep 2019 15:29

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
113	100		
111	104.2	81.8	122.6
192	18.1	14.5	21.7

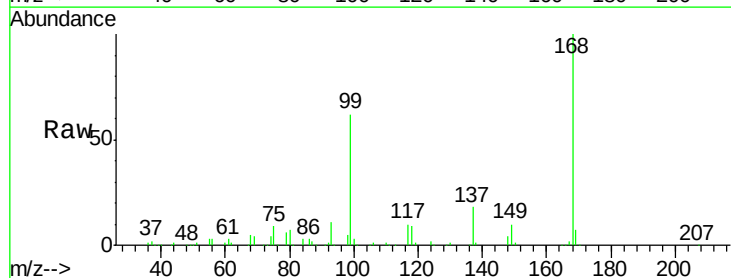


Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V

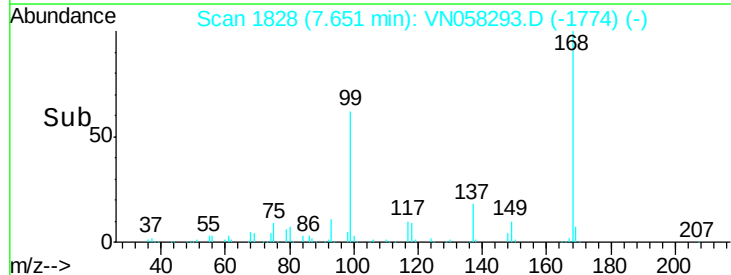
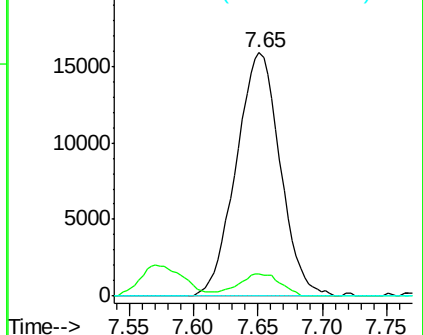


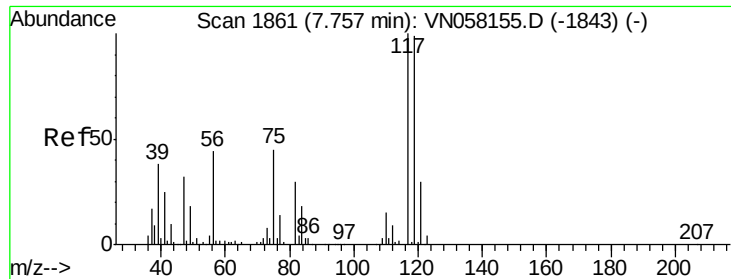
#36
 1,1-Dichloropropene
 Concen: 7.403 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN058293.D
 Acq: 23 Sep 2019 15:29

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.8	16.6	49.7#
77	0.0	24.3	36.5#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): V

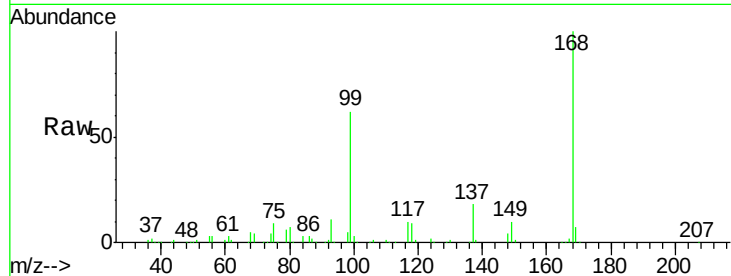




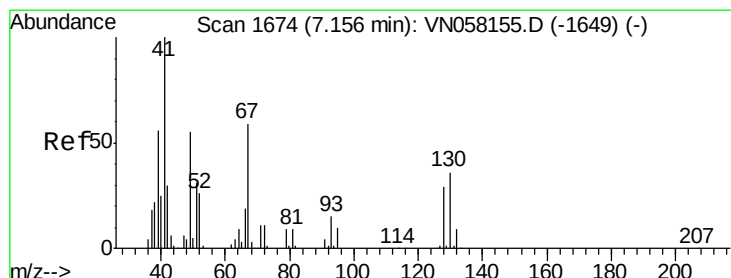
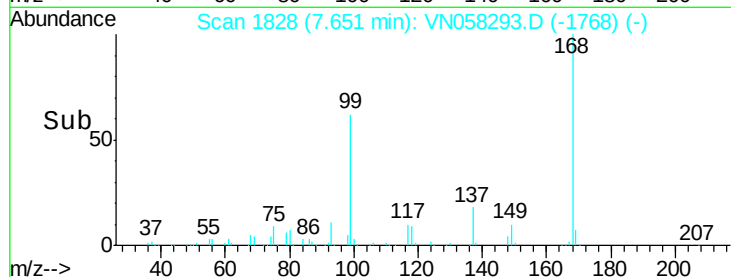
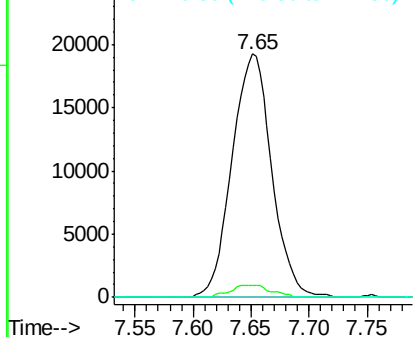
#38
Carbon Tetrachloride
Concen: 8.916 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. -0.11 min
Lab File: VN058293.D
Acq: 23 Sep 2019 15:29

Instrument :
MSVOA_N
ClientSampled :

Tot Ion:117 Resp: 45688
Ion Ratio Lower Upper
117 100
119 5.1 78.6 117.8#
121 0.0 24.1 36.1#

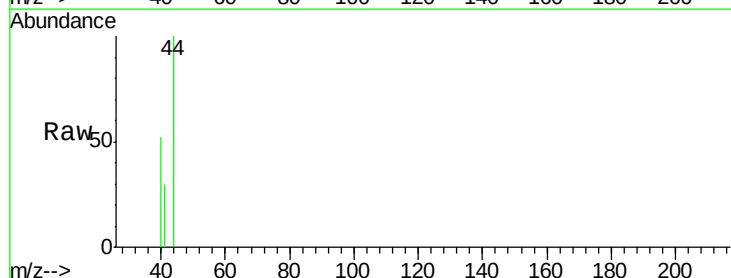


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

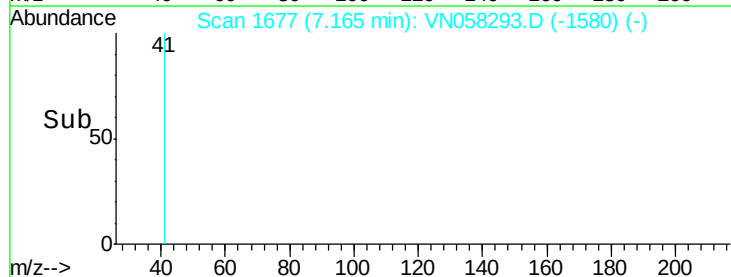
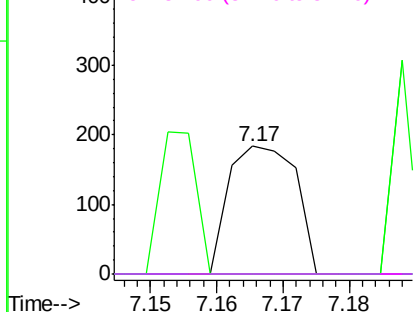


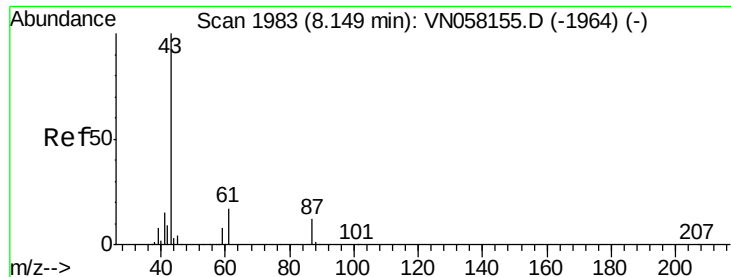
#41
Methacrylonitrile
Concen: 0.958 ug/l
RT: 7.17 min Scan# 1677
Delta R.T. 0.01 min
Lab File: VN058293.D
Acq: 23 Sep 2019 15:29

Tgt Ion: 41 Resp: 129
Ion Ratio Lower Upper
41 100
39 60.5 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): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC





#43

Isopropyl Acetate

Concen: 1.380 ug/l

RT: 8.27 min Scan# 2019

Delta R.T. 0.12 min

Lab File: VN058293.D

Acq: 23 Sep 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

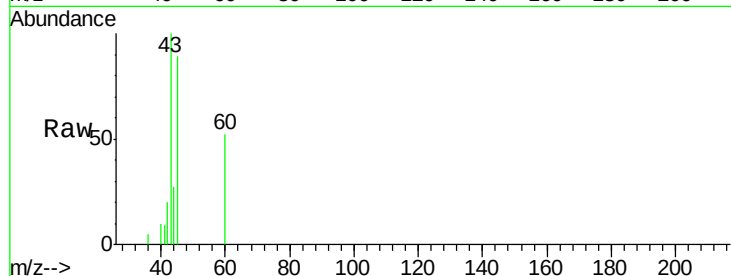
Tot Ion: 43 Resp: 13636

Ion Ratio Lower Upper

43 100

61 0.0 19.7 29.5#

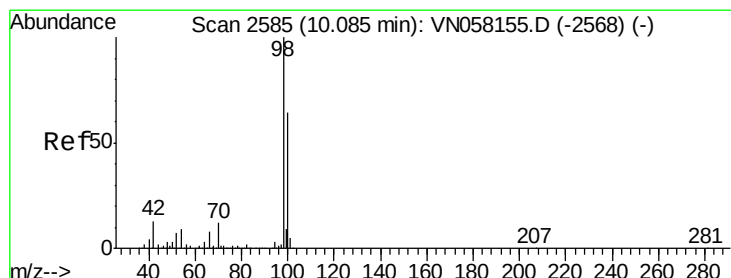
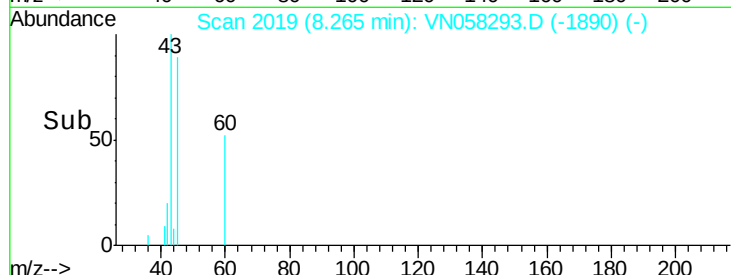
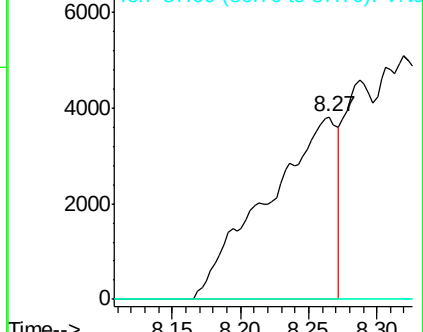
87 0.0 9.4 14.2#



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



#50

Toluene-d8

Concen: 54.047 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. -0.00 min

Lab File: VN058293.D

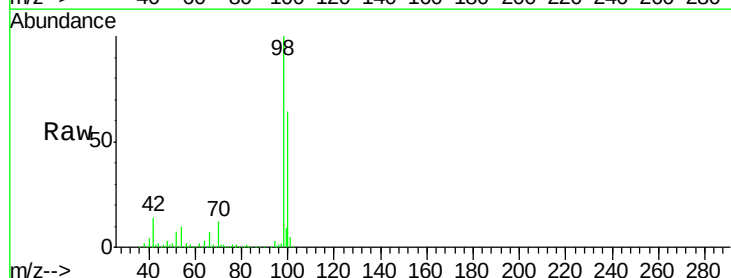
Acq: 23 Sep 2019 15:29

Tgt Ion: 98 Resp: 904937

Ion Ratio Lower Upper

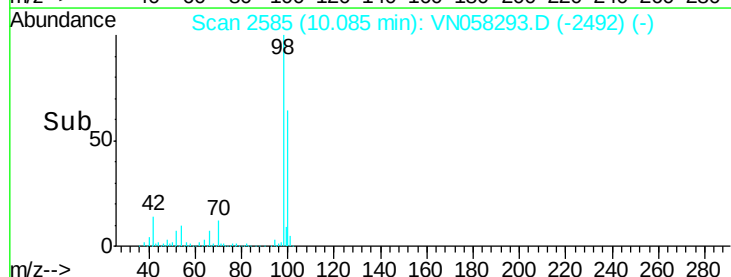
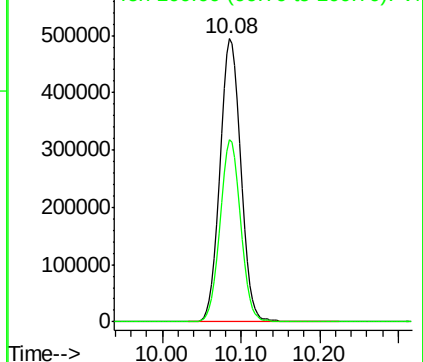
98 100

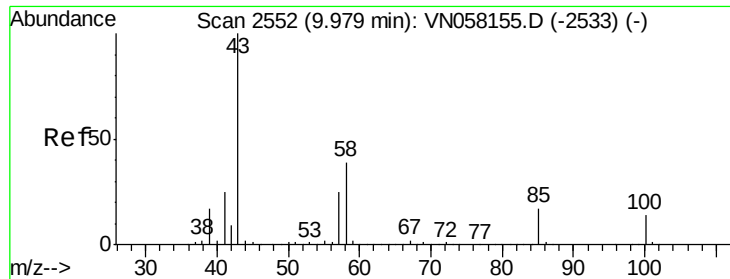
100 63.4 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN0





#51

4-Methyl-2-Pentanone

Concen: 0.521 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN058293.D

Acq: 23 Sep 2019 15:29

Instrument :

MSVOA_N

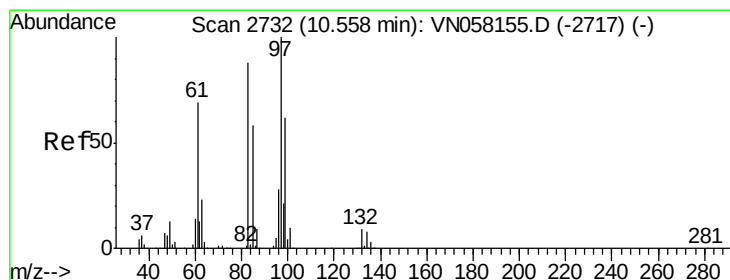
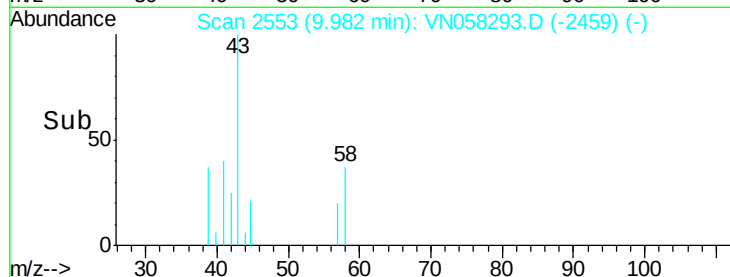
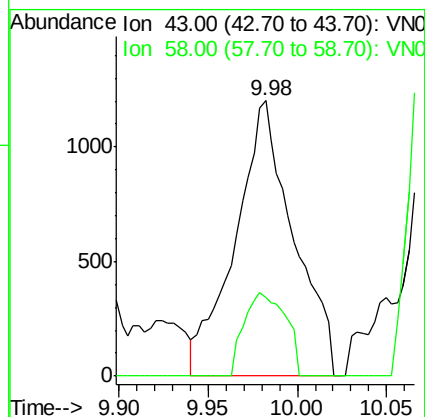
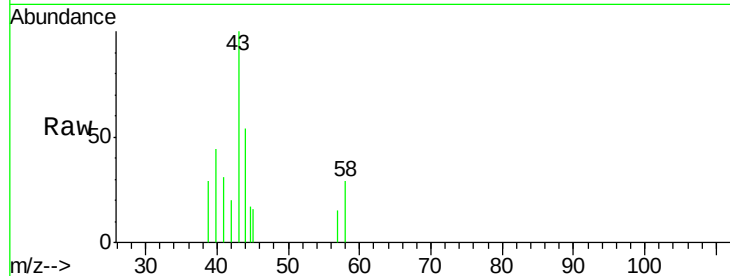
ClientSampled :

Tot Ion: 43 Resp: 2733

Ion Ratio Lower Upper

43 100

58 21.6 30.2 45.4#



#55

1,1,2-Trichloroethane

Concen: 0.276 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. 0.07 min

Lab File: VN058293.D

Acq: 23 Sep 2019 15:29

Tgt Ion: 97 Resp: 1197

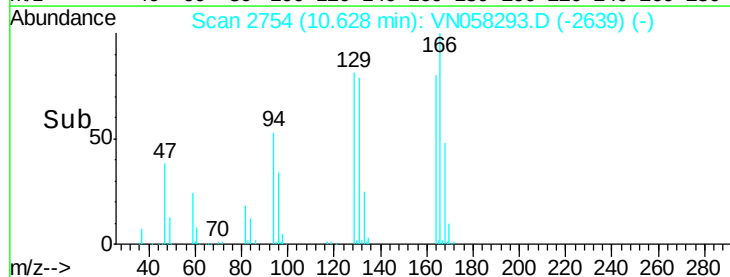
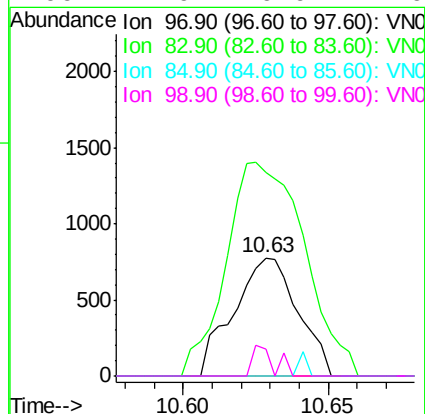
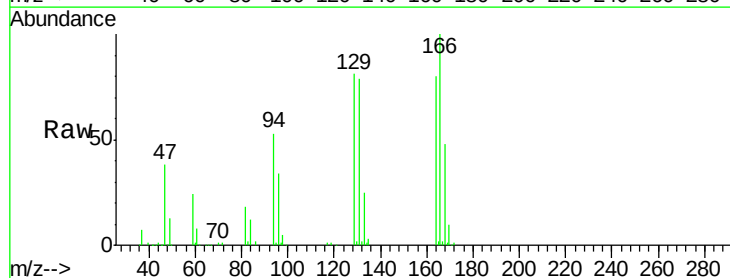
Ion Ratio Lower Upper

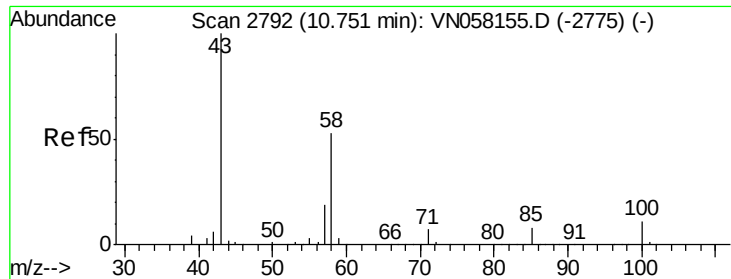
97 100

83 149.4 70.4 105.6#

85 0.0 46.8 70.2#

99 22.9 49.9 74.9#

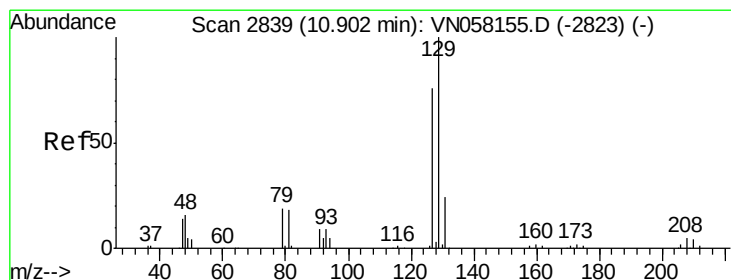
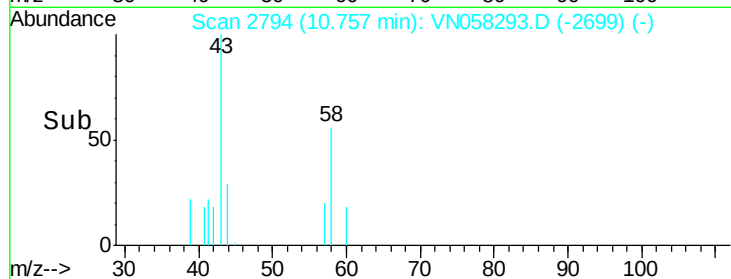
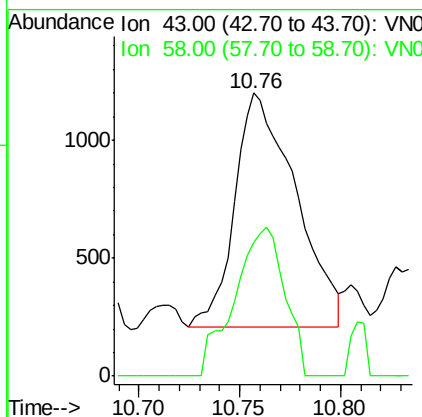
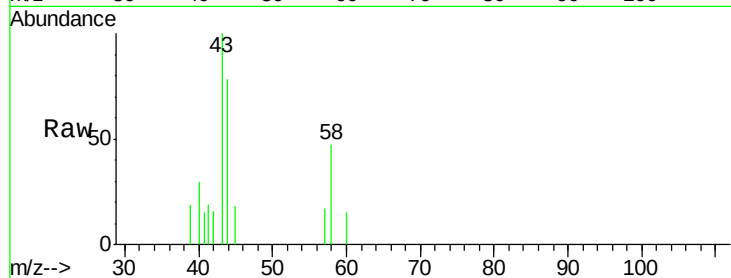




#59
2-Hexanone
Concen: 0.538 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.01 min
Lab File: VN058293.D
Acq: 23 Sep 2019 15:29

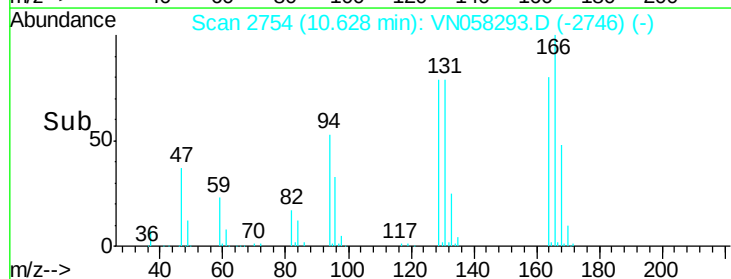
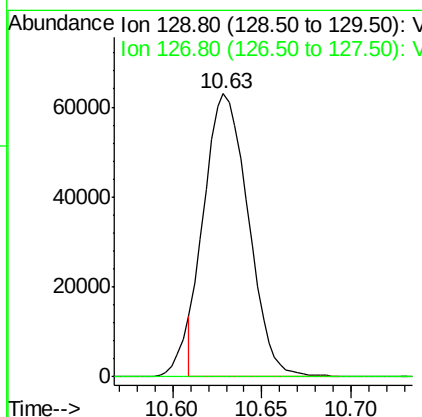
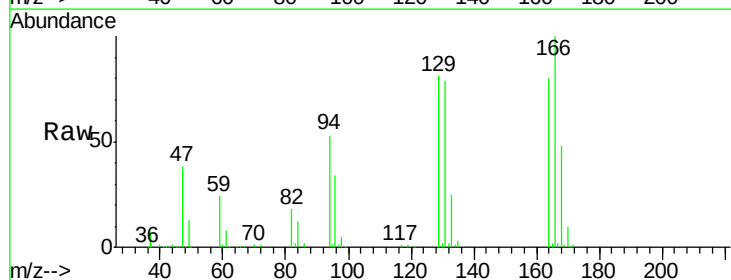
Instrument :
MSVOA_N
ClientSampled :

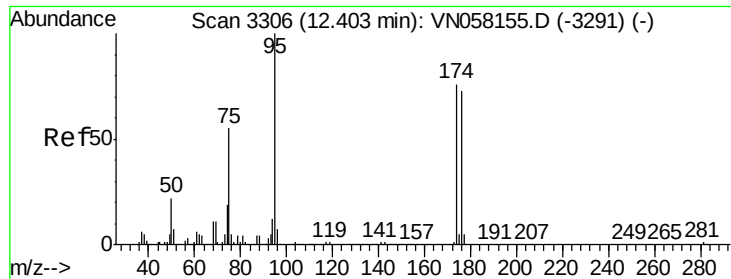
Tot Ion: 43 Resp: 2095
Ion Ratio Lower Upper
43 100
58 52.4 26.0 78.0



#60
Dibromochloromethane
Concen: 25.472 ug/l
RT: 10.63 min Scan# 2754
Delta R.T. -0.27 min
Lab File: VN058293.D
Acq: 23 Sep 2019 15:29

Tgt Ion: 129 Resp: 106120
Ion Ratio Lower Upper
129 100
127 0.0 38.7 116.1#





#62

4-Bromofluorobenzene

Concen: 46.180 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.00 min

Lab File: VN058293.D

Acq: 23 Sep 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

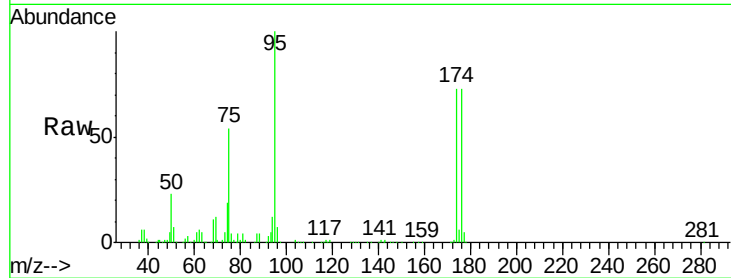
Tot Ion: 95 Resp: 287217

Ion Ratio Lower Upper

95 100

174 73.8 0.0 152.2

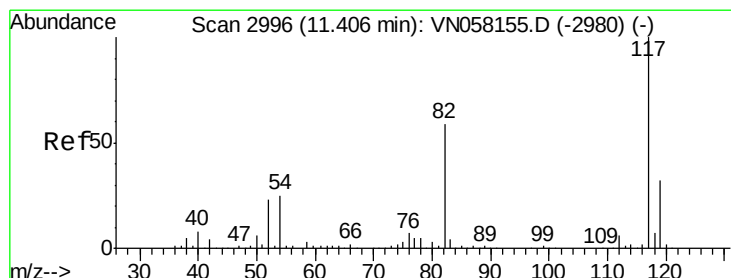
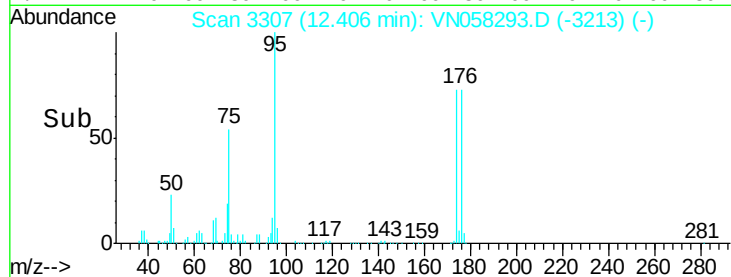
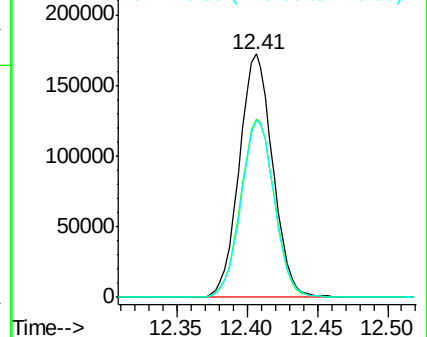
176 72.5 0.0 148.0



Abundance Ion 94.90 (94.60 to 95.60): VN058155.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN058155.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN058155.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2997

Delta R.T. 0.00 min

Lab File: VN058293.D

Acq: 23 Sep 2019 15:29

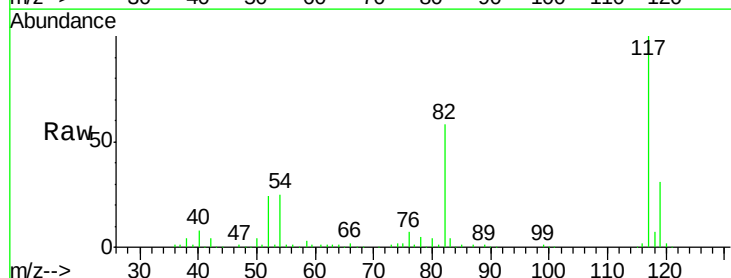
Tgt Ion: 117 Resp: 606090

Ion Ratio Lower Upper

117 100

82 57.7 46.9 70.3

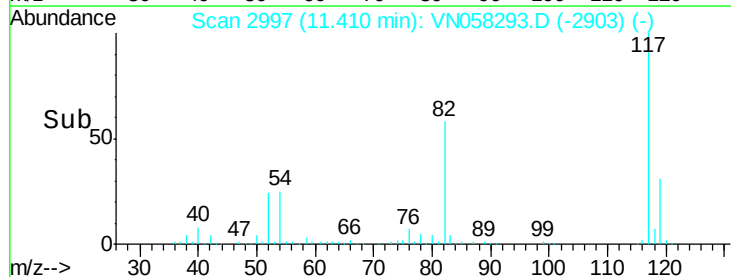
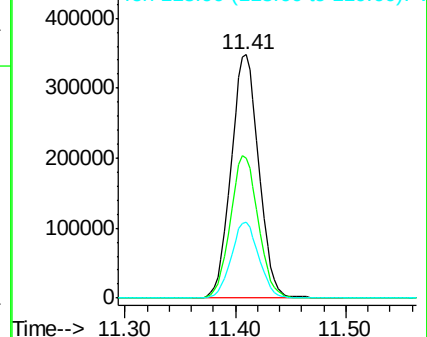
119 31.1 25.3 37.9

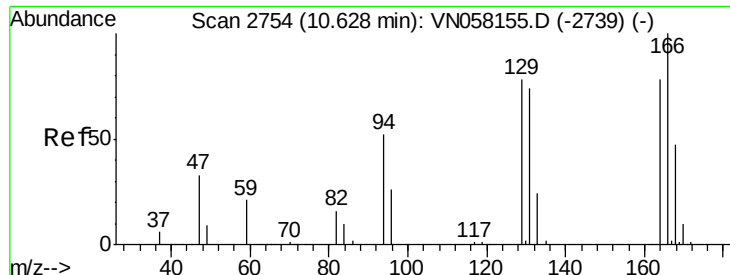


Abundance Ion 116.90 (116.60 to 117.60): VN058155.D (-2980) (-)

Ion 82.00 (81.70 to 82.70): VN058155.D (-2980) (-)

Ion 118.90 (118.60 to 119.60): VN058155.D (-2980) (-)





#64

Tetrachloroethene

Concen: 38.694 ug/l

RT: 10.63 min Scan# 2754

Delta R.T. -0.00 min

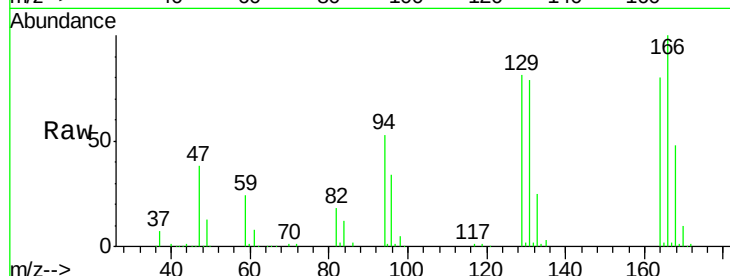
Lab File: VN058293.D

Acq: 23 Sep 2019 15:29

Instrument :

MSVOA_N

ClientSampled :



Tot Ion:164 Resp: 114324

Ion Ratio Lower Upper

164 100

166 124.7 102.2 153.4

129 100.5 79.6 119.4

131 98.5 76.0 114.0

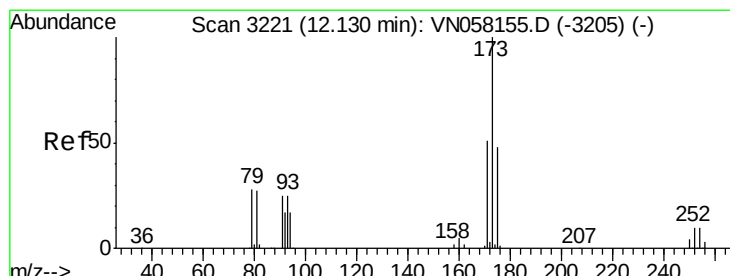
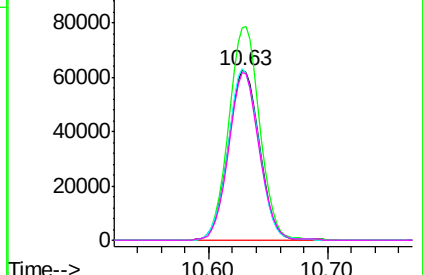
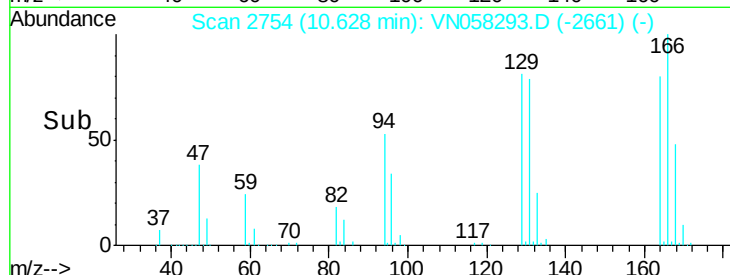
Abundance Ion 163.80 (163.50 to 164.50): V

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

Time-->



#71

Bromoform

Concen: 3.613 ug/l

RT: 12.39 min Scan# 3301

Delta R.T. 0.26 min

Lab File: VN058293.D

Acq: 23 Sep 2019 15:29

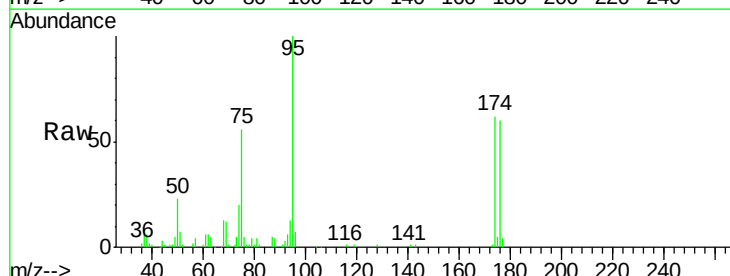
Tgt Ion:173 Resp: 56

Ion Ratio Lower Upper

173 100

175 0.0 24.2 72.6#

254 0.0 0.1 0.1#

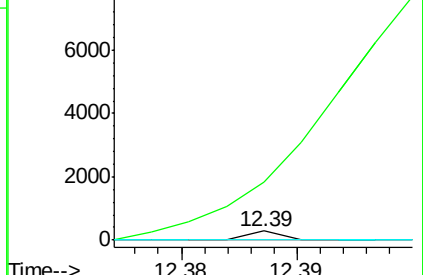
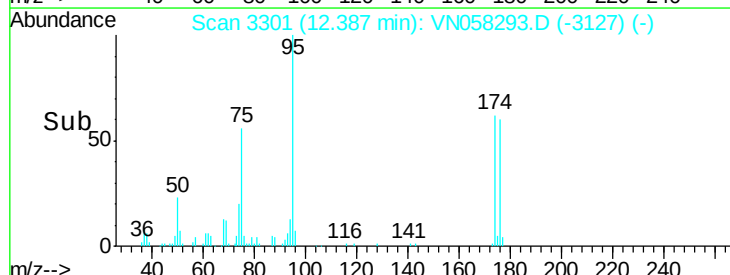


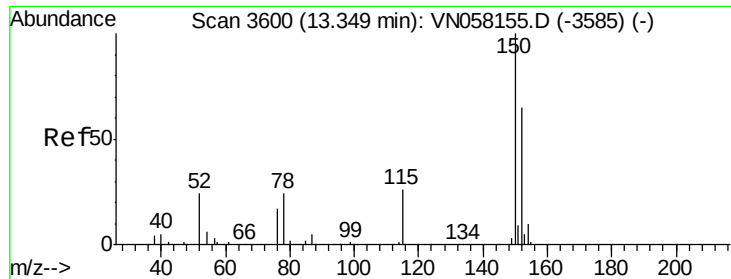
Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V

Time-->





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3601

Delta R.T. 0.00 min

Lab File: VN058293.D

Acq: 23 Sep 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

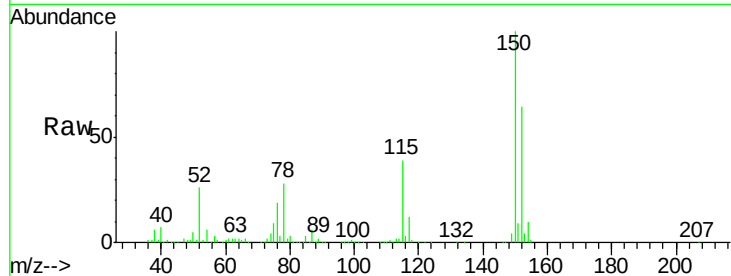
Tot Ion:152 Resp: 245205

Ion Ratio Lower Upper

152 100

115 61.4 30.1 90.3

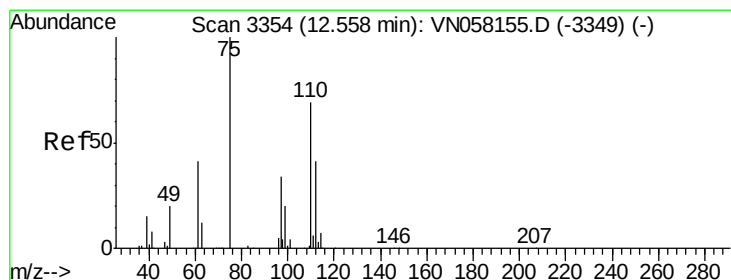
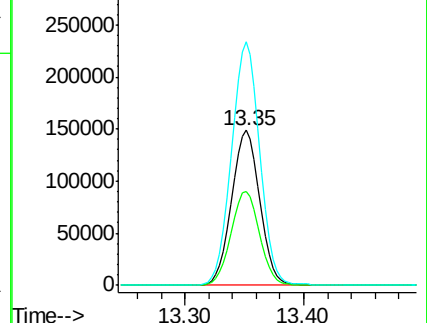
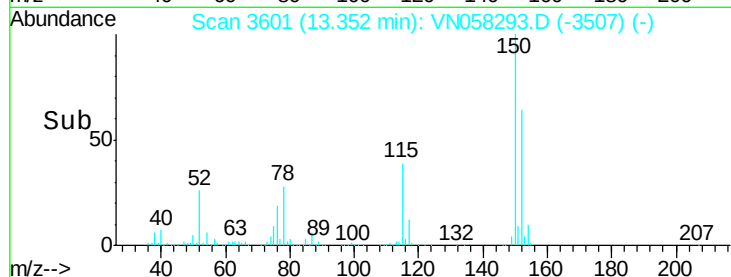
150 156.5 0.0 346.4



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: 35.697 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. -0.15 min

Lab File: VN058293.D

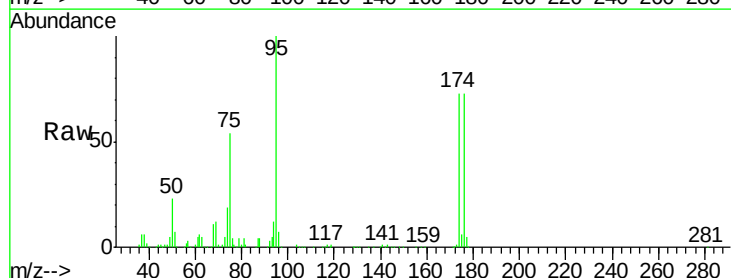
Acq: 23 Sep 2019 15:29

Tgt Ion: 75 Resp: 156652

Ion Ratio Lower Upper

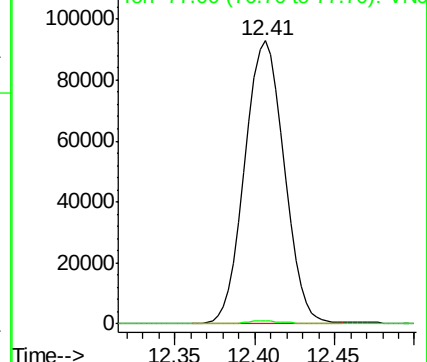
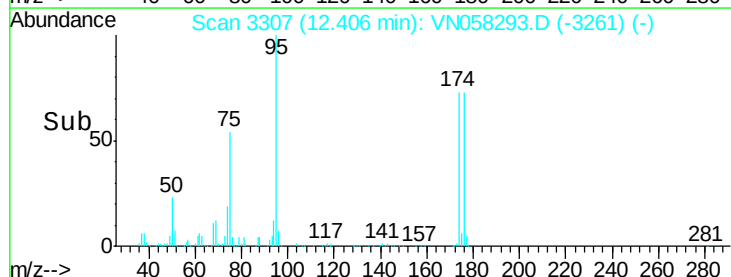
75 100

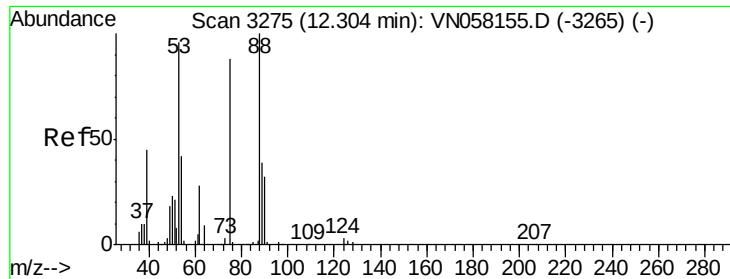
77 1.0 0.0 0.0#



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: 99.742 ug/l

RT: 12.41 min Scan# 3307

Delta R.T. 0.10 min

Lab File: VN058293.D

Acq: 23 Sep 2019 15:29

Instrument :

MSVOA_N

ClientSampleId :

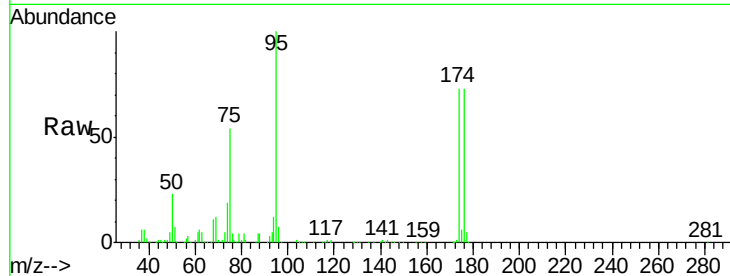
Tot Ion: 75 Resp: 156652

Ion Ratio Lower Upper

75 100

53 0.0 90.1 135.1#

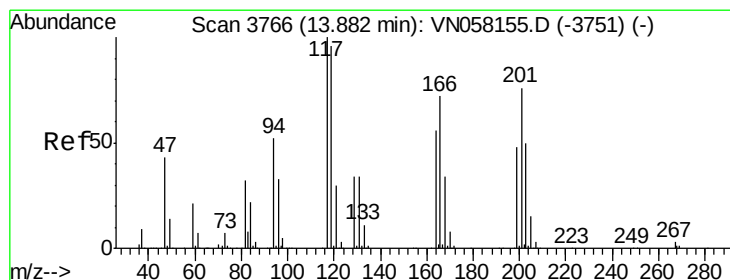
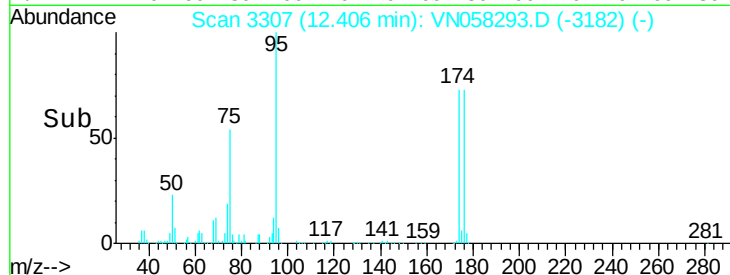
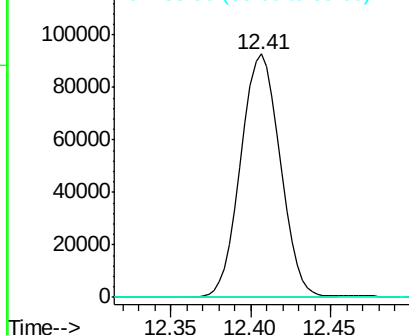
89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VN058293.D (-3307) (-)

Ion 53.00 (52.70 to 53.70): VN058293.D (-3307) (-)

Ion 88.90 (88.60 to 89.60): VN058293.D (-3307) (-)



#90

Hexachloroethane

Concen: 2.849 ug/l

RT: 13.88 min Scan# 3766

Delta R.T. 0.00 min

Lab File: VN058293.D

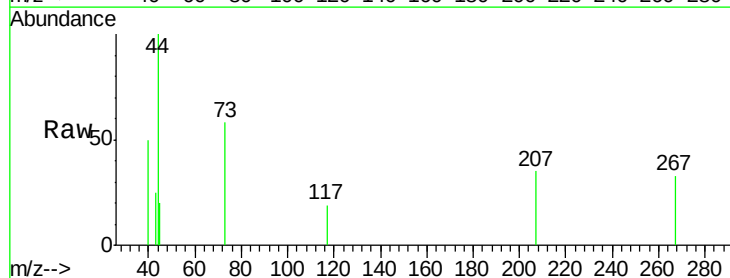
Acq: 23 Sep 2019 15:29

Tgt Ion: 117 Resp: 66

Ion Ratio Lower Upper

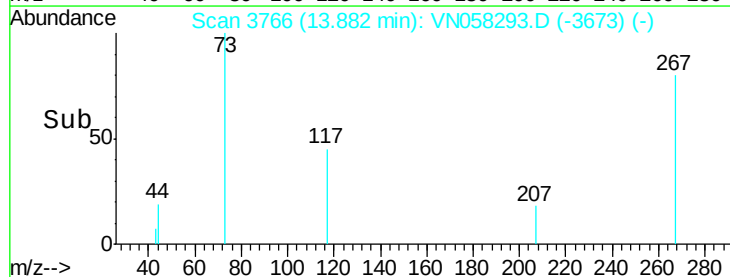
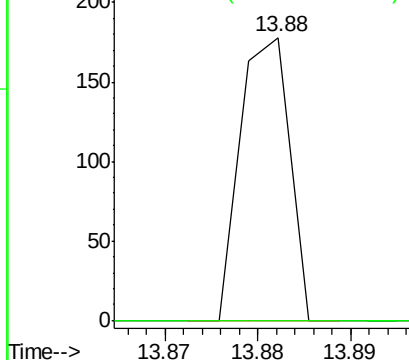
117 100

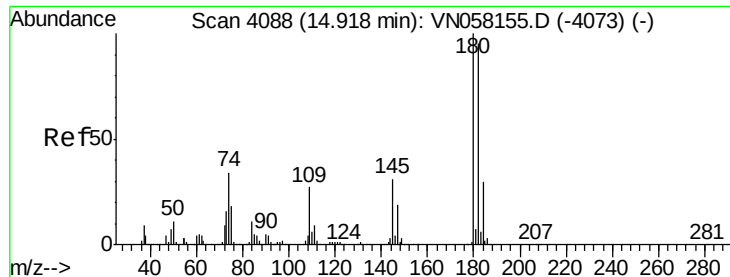
201 0.0 37.5 112.5#



Abundance Ion 116.80 (116.50 to 117.50): VN058293.D (-3766) (-)

Ion 200.70 (200.40 to 201.40): VN058293.D (-3766) (-)

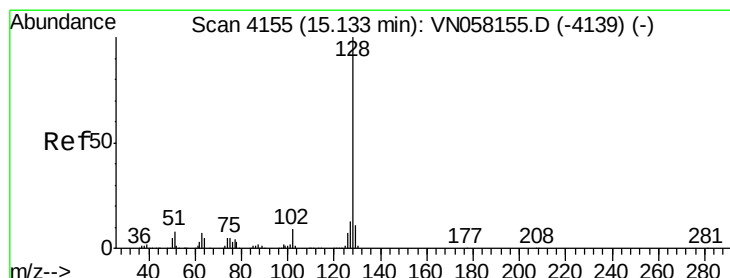
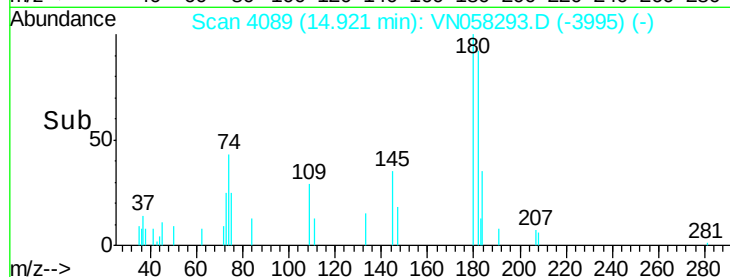
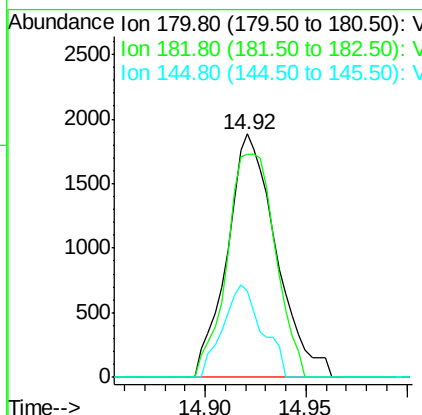
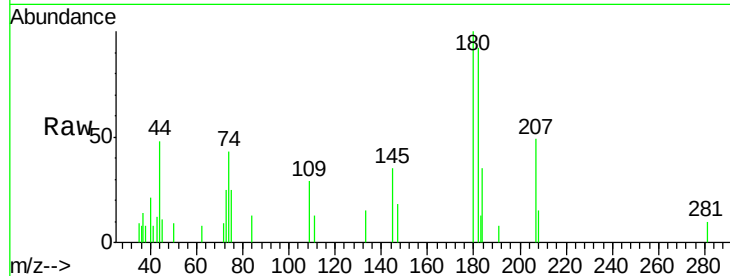




#93
 1,2,4-Trichlorobenzene
 Concen: 0.709 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.00 min
 Lab File: VN058293.D
 Acq: 23 Sep 2019 15:29

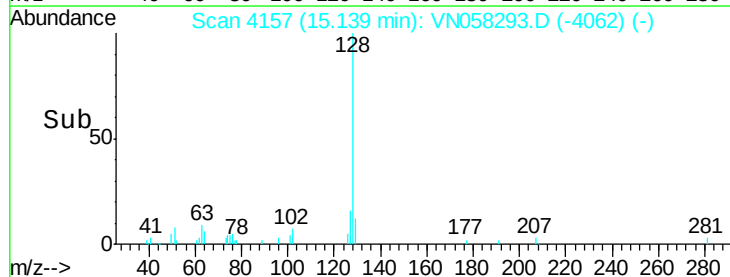
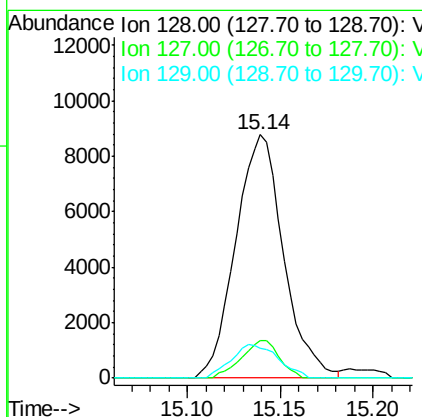
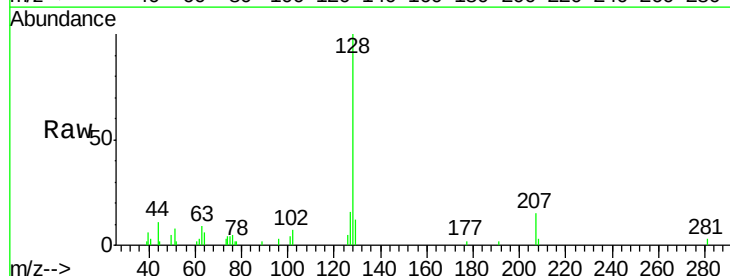
Instrument :
 MSVOA_N
 ClientSampleId :

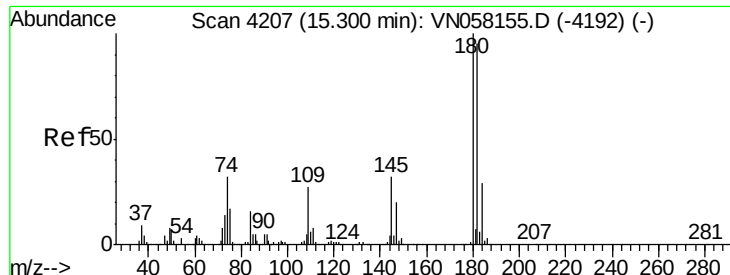
Tot Ion	Ratio	Lower	Upper
180	100		
182	90.7	47.8	143.3
145	30.3	15.4	46.4



#95
 Naphthalene
 Concen: 1.341 ug/l
 RT: 15.14 min Scan# 4157
 Delta R.T. 0.01 min
 Lab File: VN058293.D
 Acq: 23 Sep 2019 15:29

Tgt Ion	Ratio	Lower	Upper
128	100		
127	12.3	10.2	15.2
129	13.6	8.6	12.8#

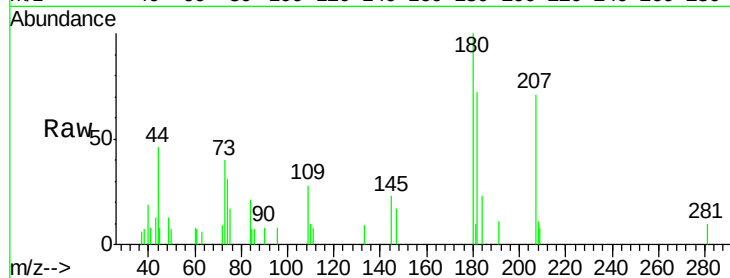




#96
 1,2,3-Trichlorobenzene
 Concen: 0.948 ug/l
 RT: 15.30 min Scan# 4207
 Delta R.T. -0.00 min
 Lab File: VN058293.D
 Acq: 23 Sep 2019 15:29

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion	Ratio	Lower	Upper
180	100		
182	88.6	47.4	142.2
145	29.1	16.1	48.2



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

