

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057904.D
 Acq On : 11 Sep 2019 7:22
 Operator : JC/SP
 Sample : K4624-17
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-E2-(4)

Quant Time: Sep 11 07:58:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	293775	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	510202	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	465279	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	236819	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	327808	55.09	ug/l	0.00
Spiked Amount			Recovery	=	110.18%	
35) Dibromofluoromethane	7.58	113	223263	47.41	ug/l	0.00
Spiked Amount			Recovery	=	94.82%	
50) Toluene-d8	10.09	98	901357	49.30	ug/l	0.00
Spiked Amount			Recovery	=	98.60%	
62) 4-Bromofluorobenzene	12.40	95	293661	42.15	ug/l	0.00
Spiked Amount			Recovery	=	84.30%	

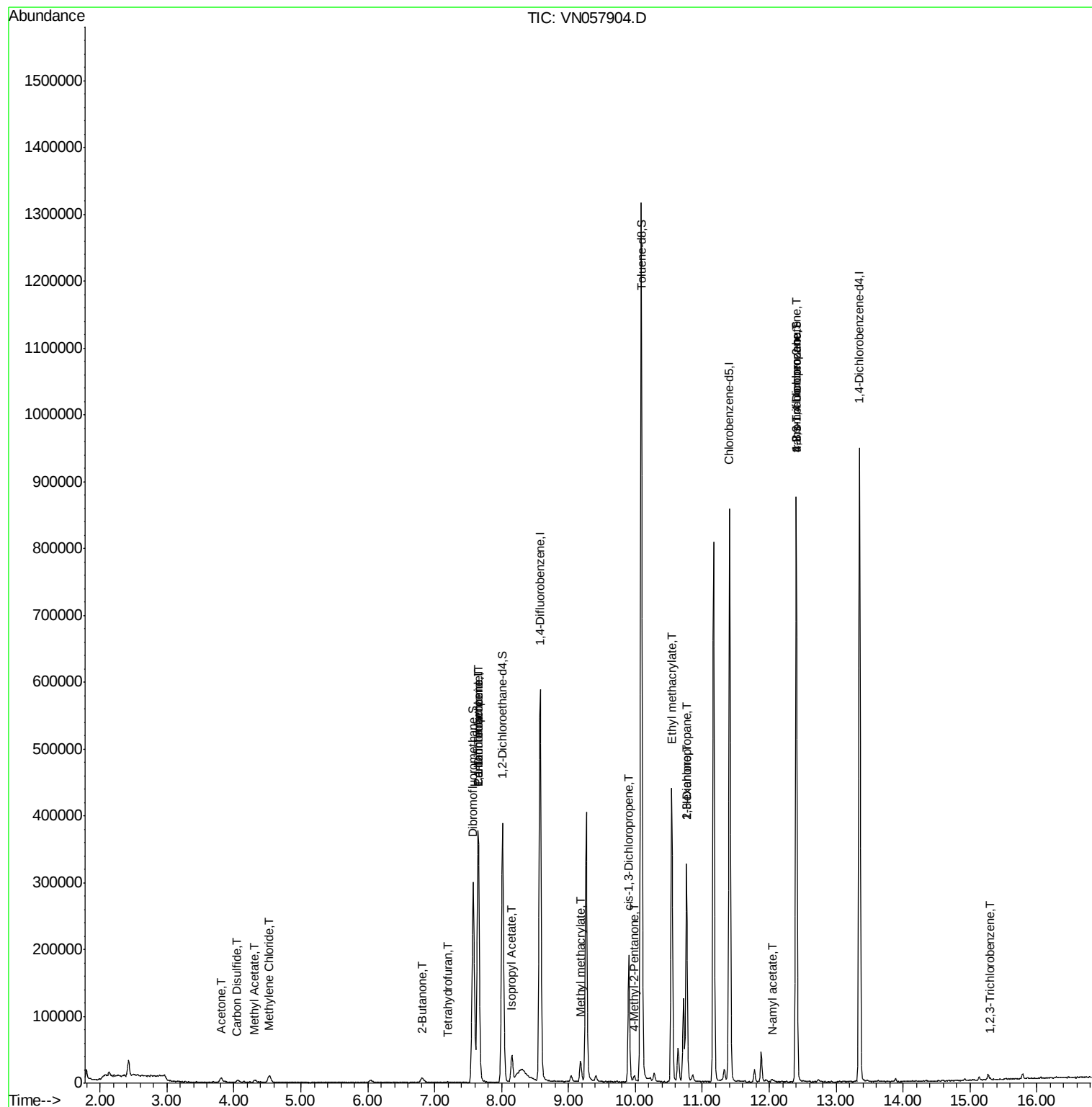
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.53	94	161	Below Cal	#	2
16) Acetone	3.81	43	10816	5.545	ug/l	94
17) Carbon Disulfide	4.04	76	528	0.267	ug/l #	75
18) Methyl Acetate	4.32	43	5776	1.111	ug/l #	76
20) Methylene Chloride	4.53	84	7330	0.762	ug/l #	79
25) 2-Butanone	6.81	43	868	0.307	ug/l #	49
29) Tetrahydrofuran	7.19	42	502	0.289	ug/l #	34
31) Cyclohexane	7.65	56	7752	Below Cal	#	24
36) 1,1-Dichloropropene	7.65	75	25836	4.366	ug/l #	51
38) Carbon Tetrachloride	7.65	117	30840	5.709	ug/l #	16
43) Isopropyl Acetate	8.15	43	51004	4.961	ug/l #	91
48) Methyl methacrylate	9.17	41	4630	0.888	ug/l #	24
51) 4-Methyl-2-Pentanone	9.98	43	5209	0.856	ug/l #	87
54) cis-1,3-Dichloropropene	9.90	75	31219	4.293	ug/l #	66
56) Ethyl methacrylate	10.54	69	1515	0.212	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3661	0.447	ug/l #	43
59) 2-Hexanone	10.77	43	49367	10.826	ug/l #	56
74) N-amyl acetate	12.04	43	3311	0.414	ug/l #	46
76) 1,2,3-Trichloropropane	12.40	75	164189	30.648	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	164189	107.851	ug/l #	6
95) Naphthalene	15.14	128	3385	Below Cal	#	89
96) 1,2,3-Trichlorobenzene	15.30	180	972	1.197	ug/l #	86

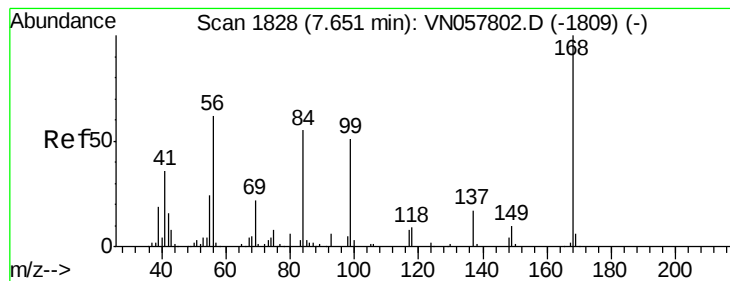
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057904.D

Acq: 11 Sep 2019 7:22

Instrument :

MSVOA_N

ClientSampled :

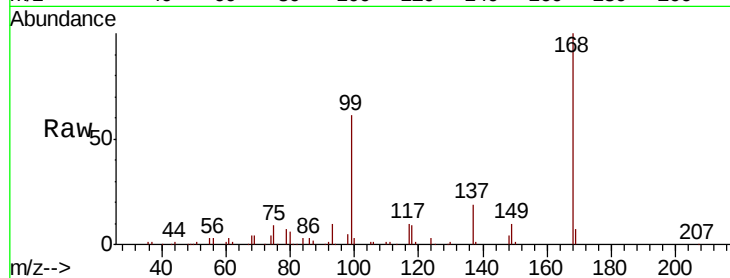
PAR-11-E2-(4)

Tgt Ion: 168 Resp: 293775

Ion Ratio Lower Upper

168 100

99 61.1 48.0 72.0



Abundance Ion 167.90 (167.60 to 168.60): VN057802.D (-1809) (-)

Ion 98.90 (98.60 to 99.60): VN057802.D (-1809) (-)

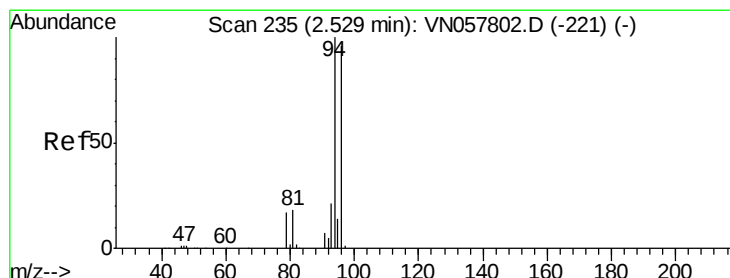
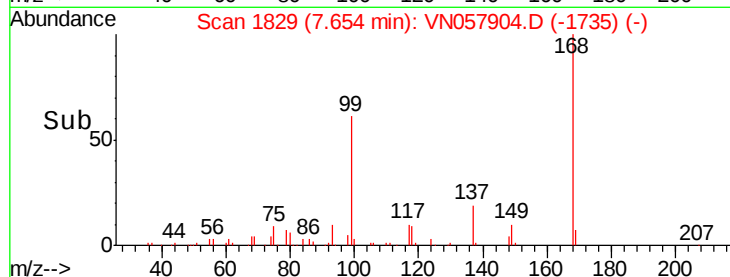
7.65

100000

50000

0

Time-->



#5

Bromomethane

Concen: Below Cal

RT: 2.53 min Scan# 236

Delta R.T. 0.00 min

Lab File: VN057904.D

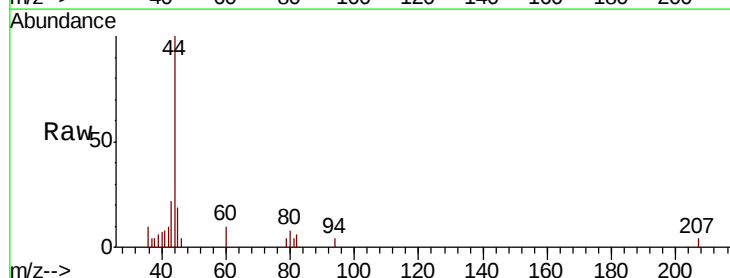
Acq: 11 Sep 2019 7:22

Tgt Ion: 94 Resp: 161

Ion Ratio Lower Upper

94 100

96 0.0 77.0 115.4#



Abundance Ion 93.90 (93.60 to 94.60): VN057802.D (-221) (-)

Ion 95.90 (95.60 to 96.60): VN057802.D (-221) (-)

250

200

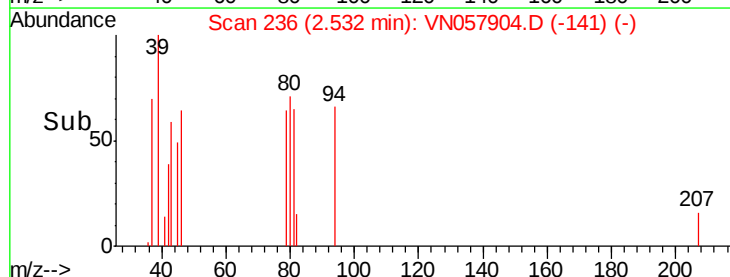
150

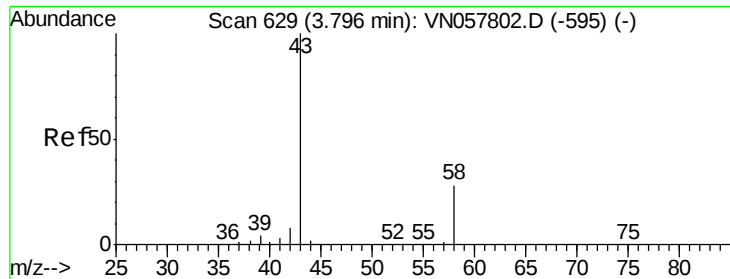
100

50

0

Time-->





#16

Acetone

Concen: 5.545 ug/l

RT: 3.81 min Scan# 634

Delta R.T. 0.02 min

Lab File: VN057904.D

Acq: 11 Sep 2019 7:22

Instrument :

MSVOA_N

ClientSampleId :

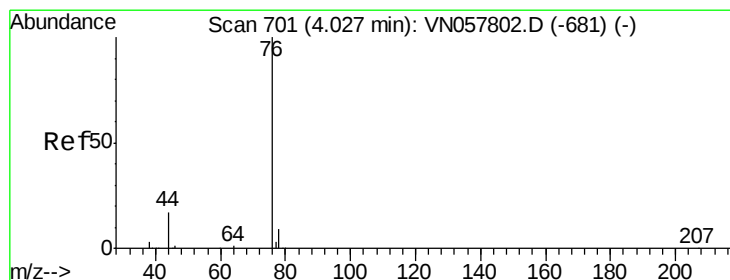
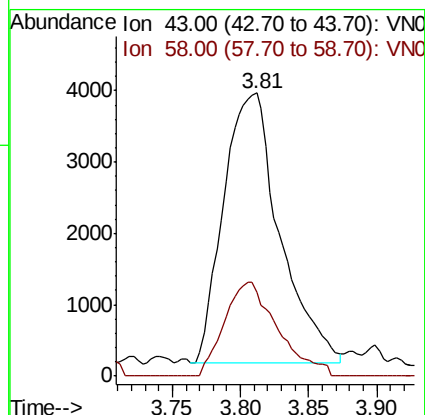
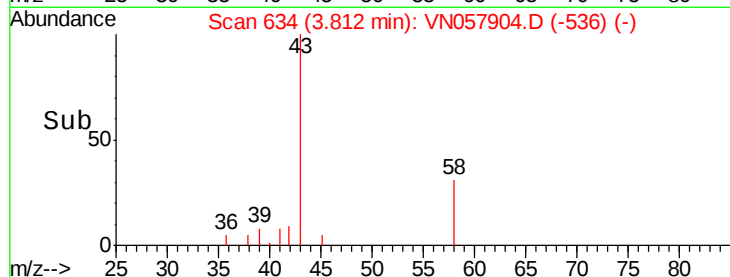
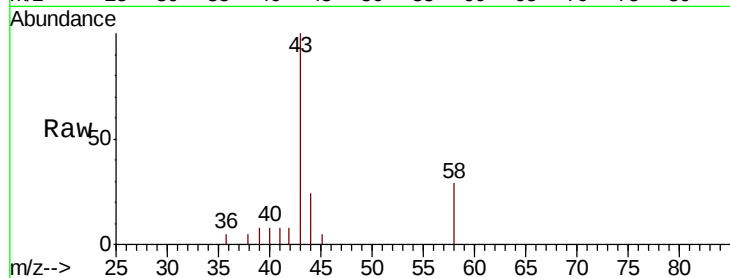
PAR-11-E2-(4)

Tgt Ion: 43 Resp: 10816

Ion Ratio Lower Upper

43 100

58 30.9 22.2 33.2



#17

Carbon Disulfide

Concen: 0.267 ug/l

RT: 4.04 min Scan# 705

Delta R.T. 0.01 min

Lab File: VN057904.D

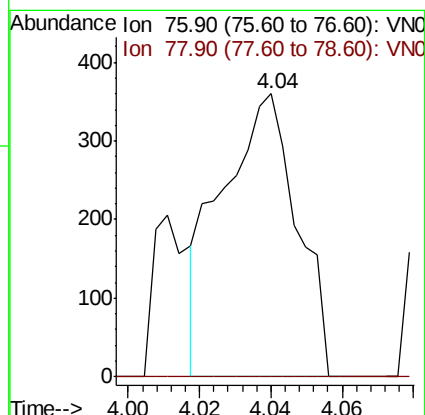
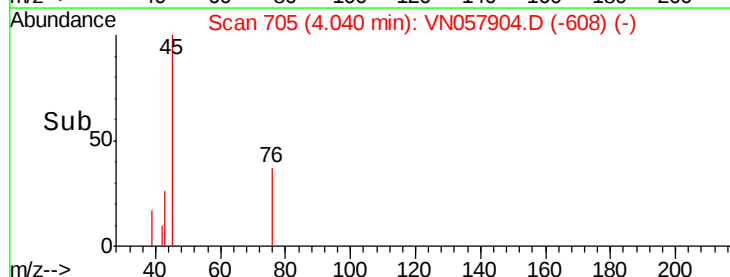
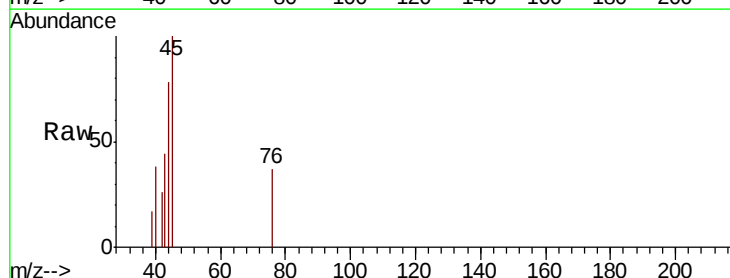
Acq: 11 Sep 2019 7:22

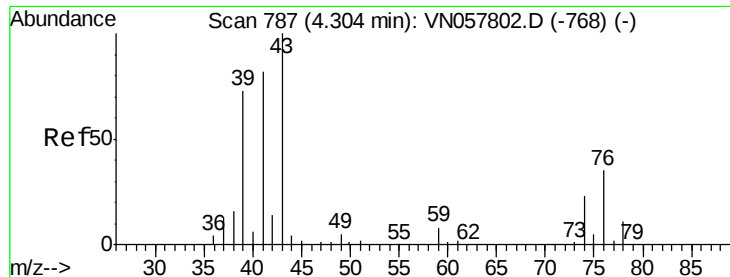
Tgt Ion: 76 Resp: 528

Ion Ratio Lower Upper

76 100

78 0.0 7.1 10.7#

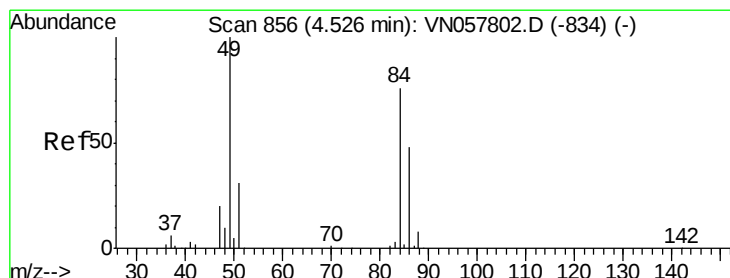
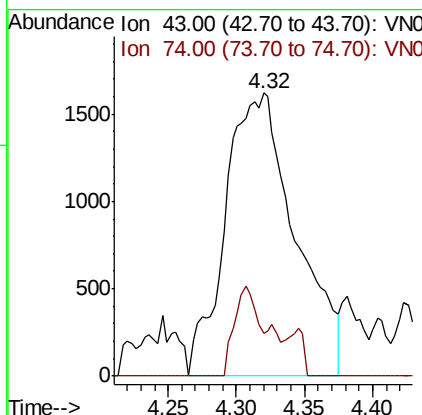
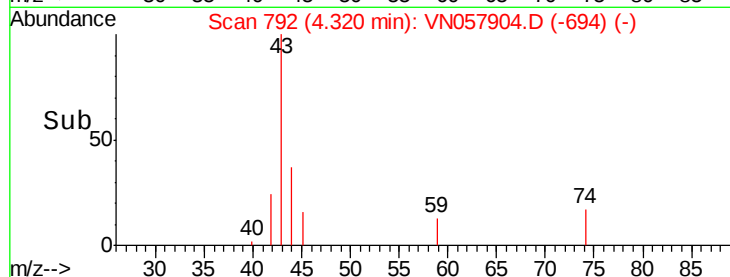
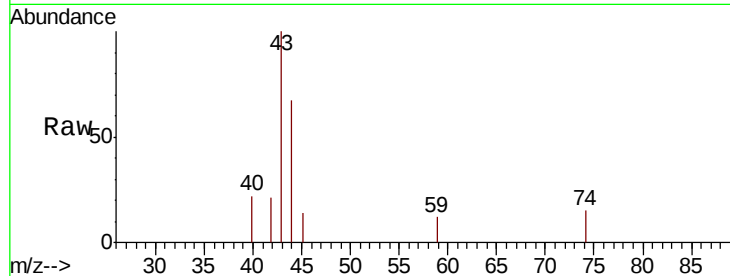




#18
Methyl Acetate
Concen: 1.111 ug/l
RT: 4.32 min Scan# 792
Delta R.T. 0.02 min
Lab File: VN057904.D
Acq: 11 Sep 2019 7:22

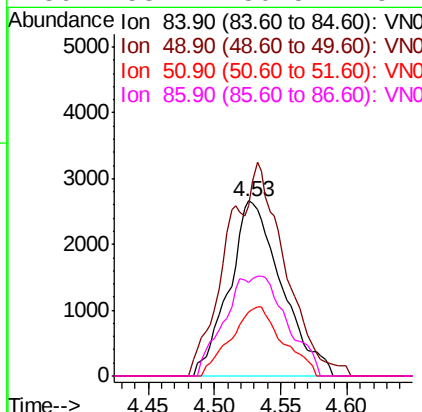
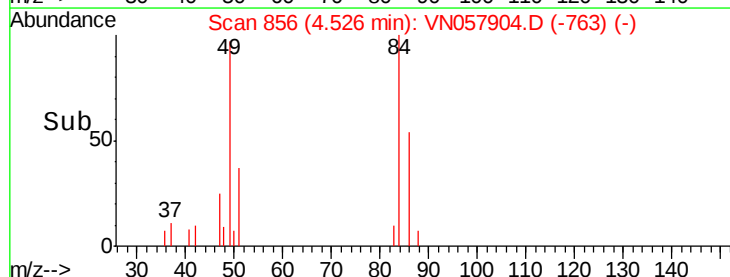
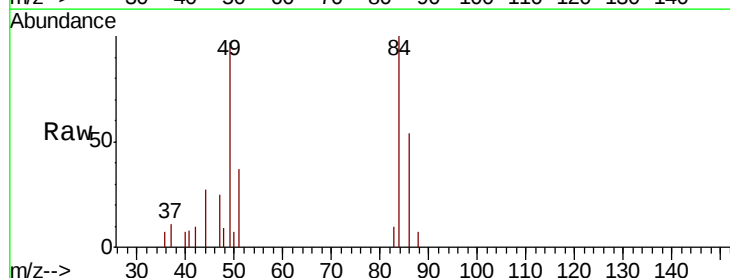
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-E2-(4)

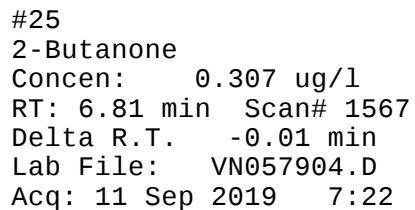
Tgt Ion: 43 Resp: 5776
Ion Ratio Lower Upper
43 100
74 10.7 17.9 26.9#



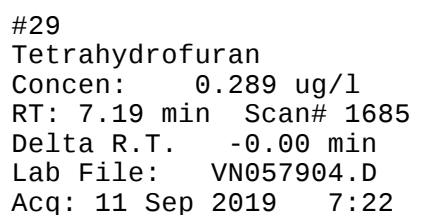
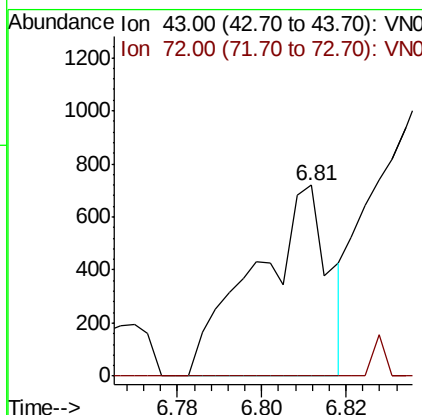
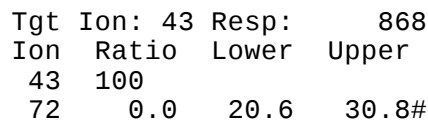
#20
Methylene Chloride
Concen: 0.762 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN057904.D
Acq: 11 Sep 2019 7:22

Tgt Ion: 84 Resp: 7330
Ion Ratio Lower Upper
84 100
49 97.2 104.8 157.2#
51 36.8 33.0 49.4
86 53.7 50.5 75.7

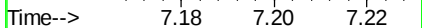
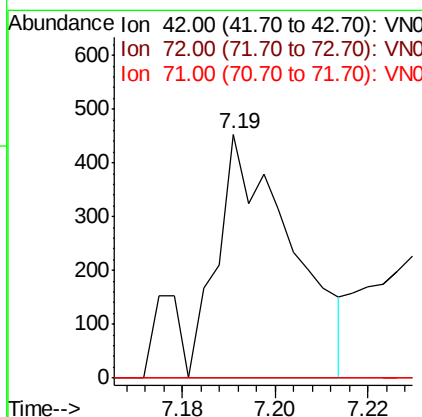


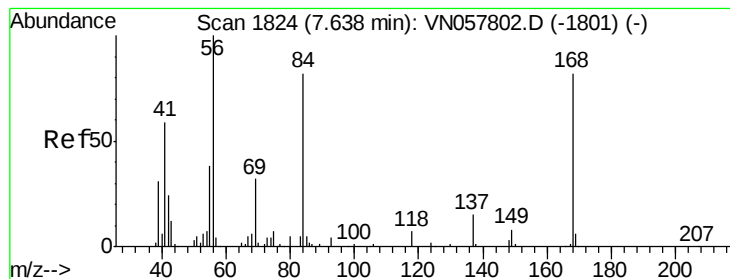


Instrument :
MSVOA_N
ClientSampleId :
PAR-11-E2-(4)



Tgt	Ion: 42	Resp:	502
Ion	Ratio	Lower	Upper
42	100		
72	0.0	33.7	50.5#
71	0.0	31.9	47.9#





#31

Cyclohexane

Concen: Below Cal

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN057904.D

Acq: 11 Sep 2019 7:22

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-E2-(4)

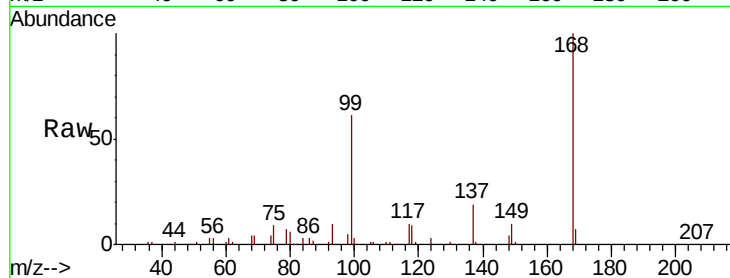
Tgt Ion: 56 Resp: 7752

Ion Ratio Lower Upper

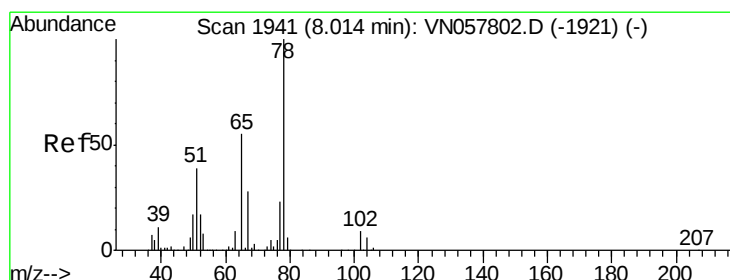
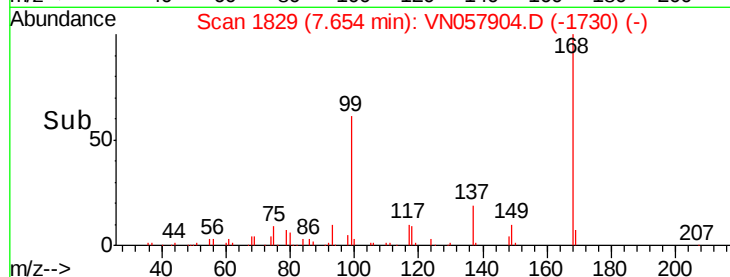
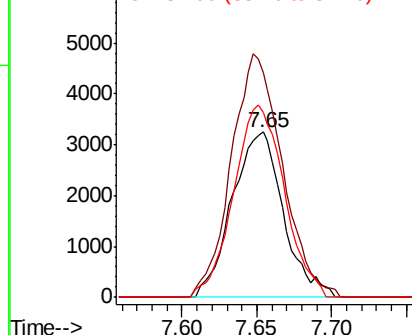
56 100

69 136.2 25.9 38.9#

84 112.0 65.6 98.4#



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



#33

1,2-Dichloroethane-d4

Concen: 55.092 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057904.D

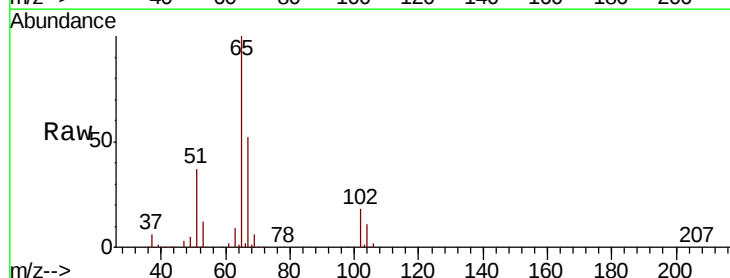
Acq: 11 Sep 2019 7:22

Tgt Ion: 65 Resp: 327808

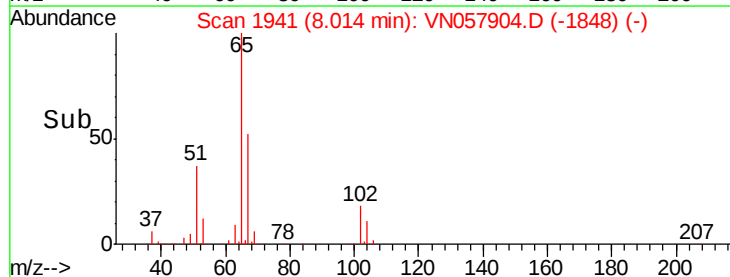
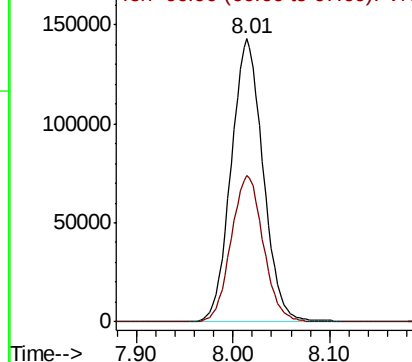
Ion Ratio Lower Upper

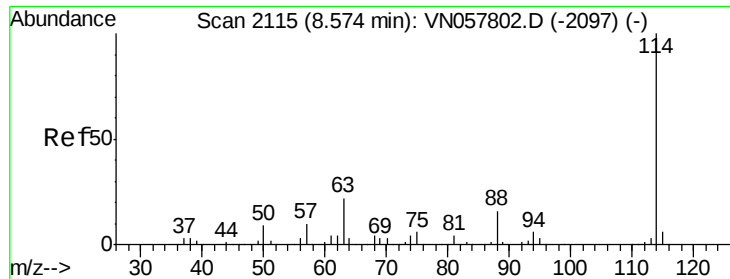
65 100

67 52.1 0.0 104.0



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

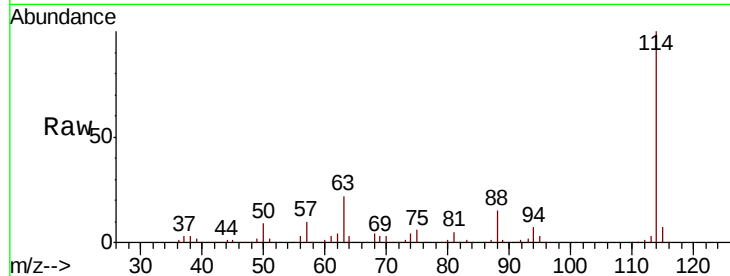




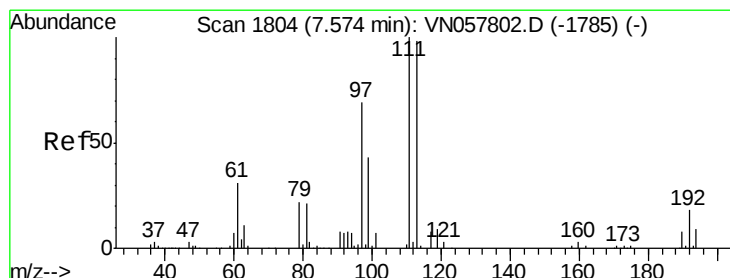
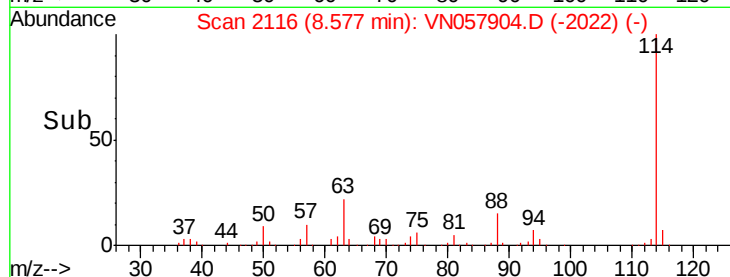
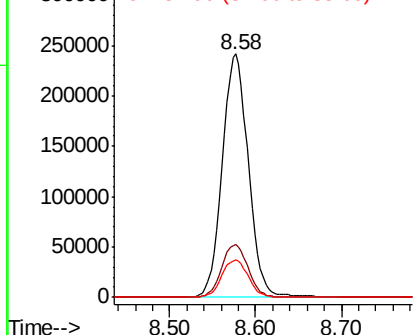
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057904.D
 Acq: 11 Sep 2019 7:22

Instrument :
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 PAR-11-E2-(4)

Tgt Ion:114 Resp: 510202
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 44.0
 88 15.4 0.0 31.4

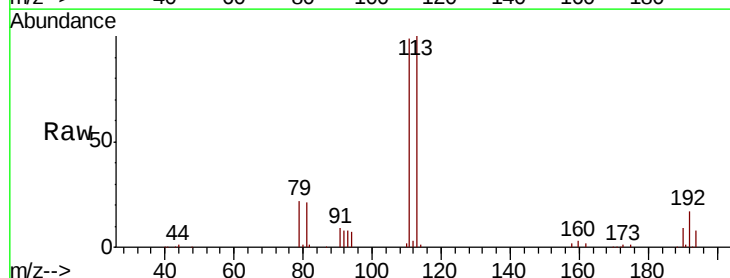


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

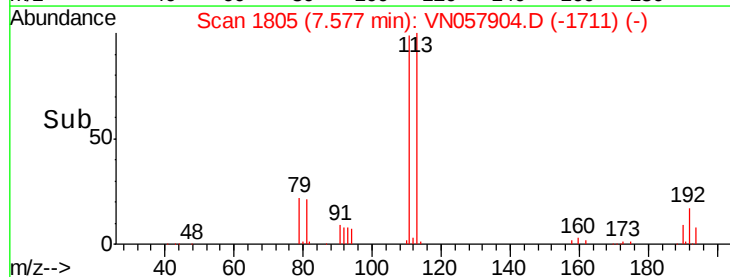
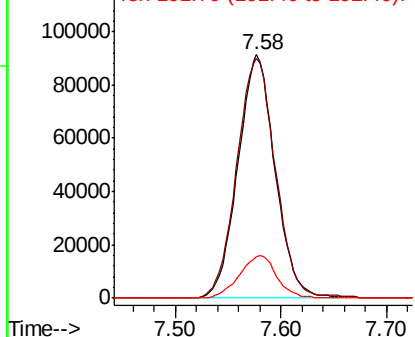


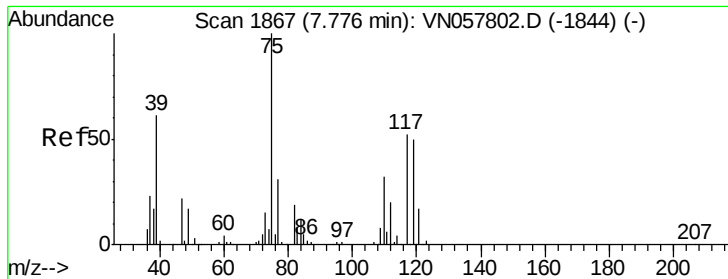
#35
 Dibromofluoromethane
 Concen: 47.412 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057904.D
 Acq: 11 Sep 2019 7:22

Tgt Ion:113 Resp: 223263
 Ion Ratio Lower Upper
 113 100
 111 103.1 81.3 121.9
 192 17.6 14.6 22.0



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

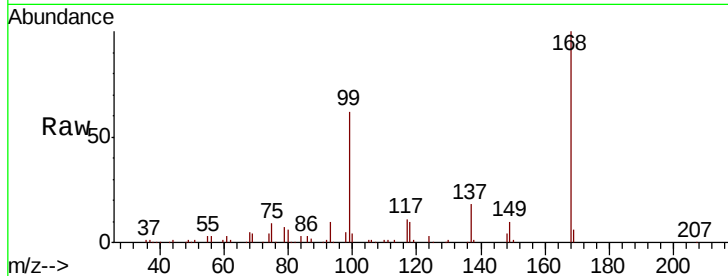




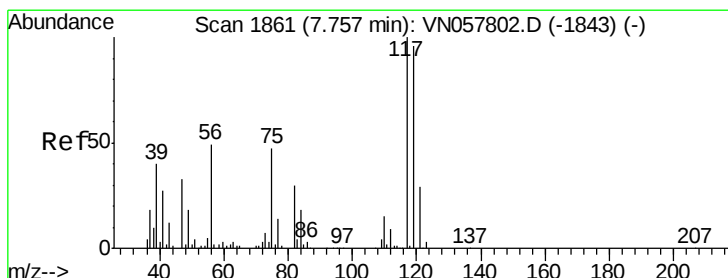
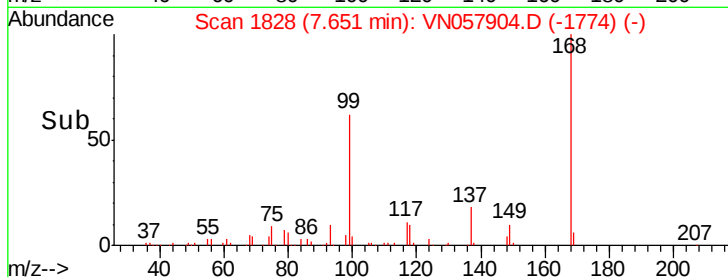
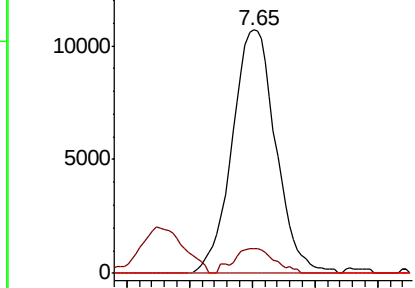
#36
 1,1-Dichloropropene
 Concen: 4.366 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057904.D
 Acq: 11 Sep 2019 7:22

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-E2-(4)

Tgt Ion	Ratio	Lower	Upper
75	100		
110	9.6	16.3	48.9#
77	0.0	25.0	37.4#

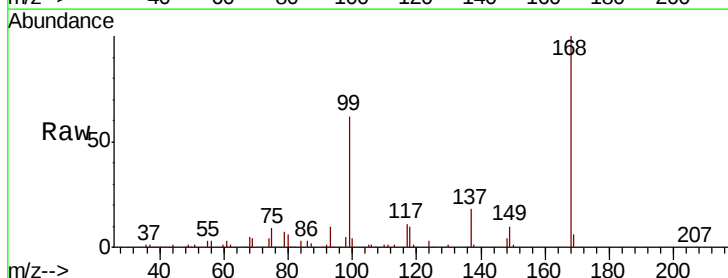


Abundance Ion 74.90 (74.60 to 75.60): VN057802.D (-1844) (-)
 Ion 109.90 (109.60 to 110.60): VN057802.D (-1844) (-)
 Ion 76.90 (76.60 to 77.60): VN057802.D (-1844) (-)

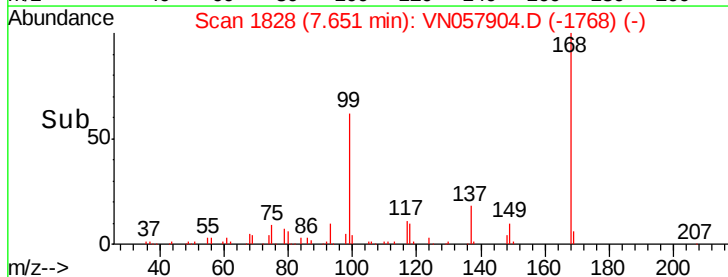
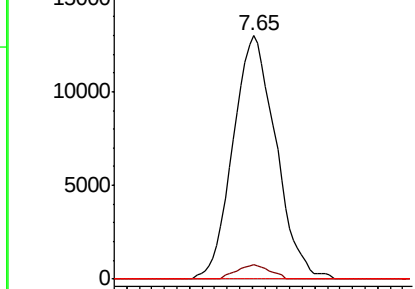


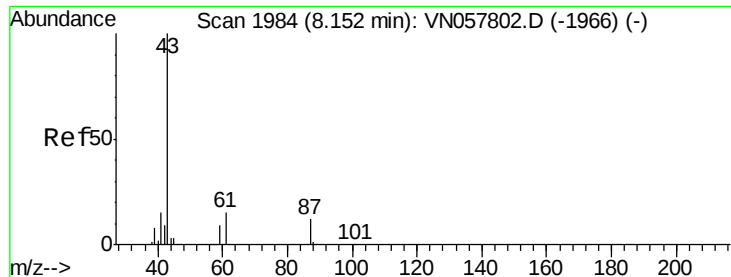
#38
 Carbon Tetrachloride
 Concen: 5.709 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057904.D
 Acq: 11 Sep 2019 7:22

Tgt Ion	Ratio	Lower	Upper
117	100		
119	5.8	76.9	115.3#
121	0.0	23.4	35.2#



Abundance Ion 116.80 (116.50 to 117.50): VN057802.D (-1843) (-)
 Ion 118.80 (118.50 to 119.50): VN057802.D (-1843) (-)
 Ion 120.80 (120.50 to 121.50): VN057802.D (-1843) (-)





#43

Isopropyl Acetate

Concen: 4.961 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057904.D

Acq: 11 Sep 2019 7:22

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-E2-(4)

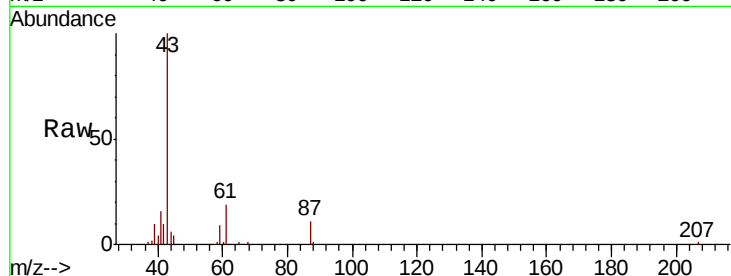
Tgt Ion: 43 Resp: 51004

Ion Ratio Lower Upper

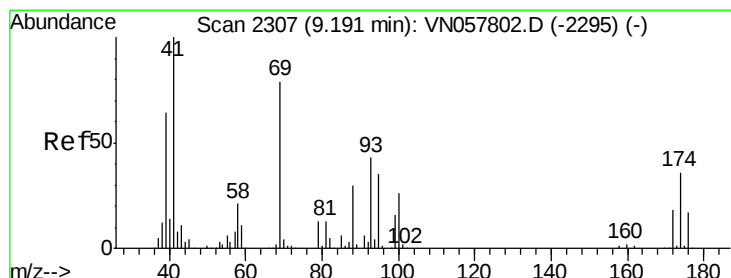
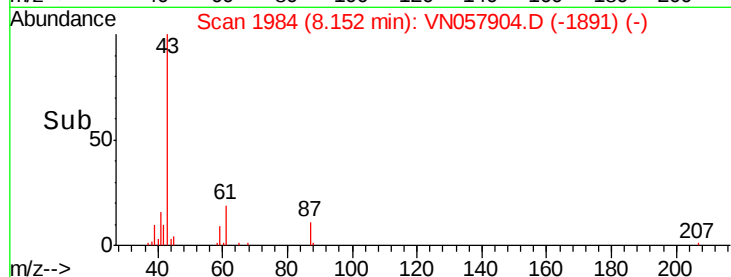
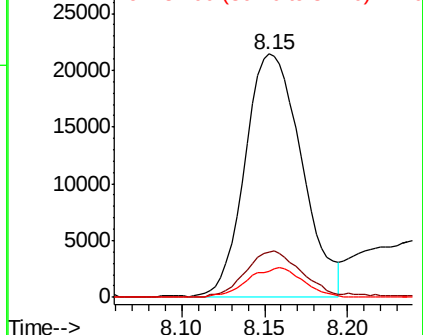
43 100

61 18.7 20.1 30.1#

87 11.9 9.5 14.3



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



#48

Methyl methacrylate

Concen: 0.888 ug/l

RT: 9.17 min Scan# 2302

Delta R.T. -0.02 min

Lab File: VN057904.D

Acq: 11 Sep 2019 7:22

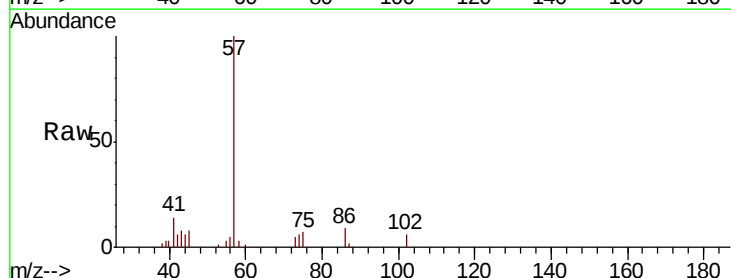
Tgt Ion: 41 Resp: 4630

Ion Ratio Lower Upper

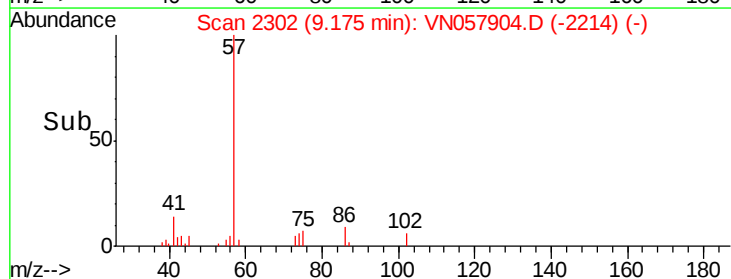
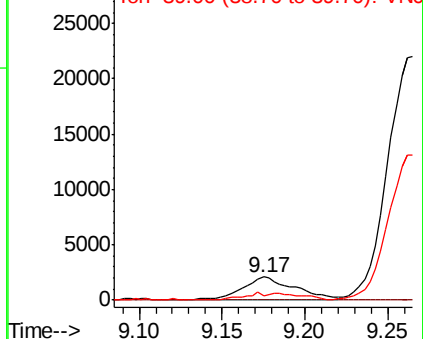
41 100

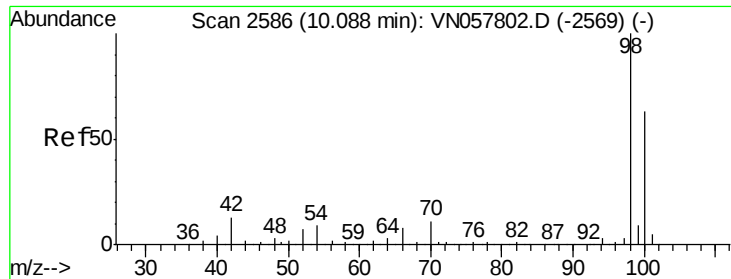
69 0.0 62.7 94.1#

39 17.9 52.7 79.1#



Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#50

Toluene-d8

Concen: 49.301 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057904.D

Acq: 11 Sep 2019 7:22

Instrument :

MSVOA_N

ClientSampled :

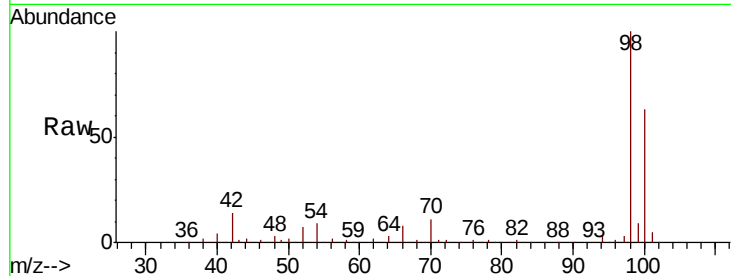
PAR-11-E2-(4)

Tgt Ion: 98 Resp: 901357

Ion Ratio Lower Upper

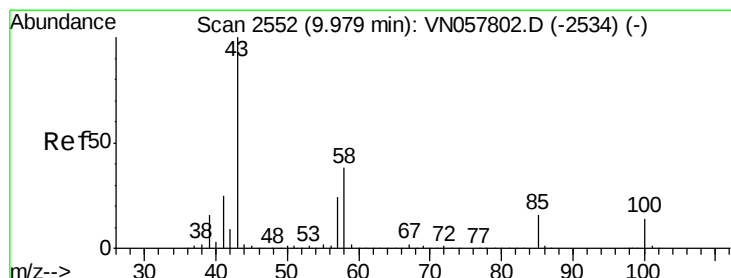
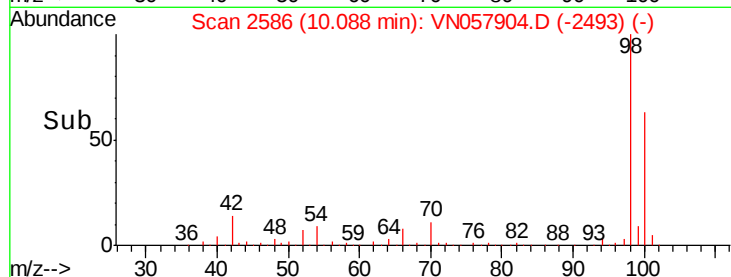
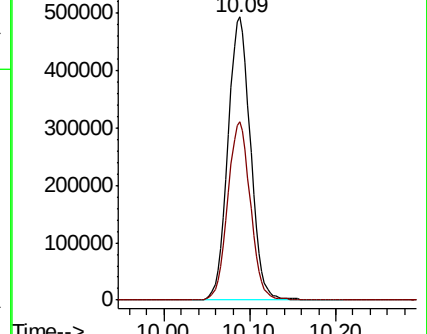
98 100

100 63.2 50.3 75.5



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.856 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057904.D

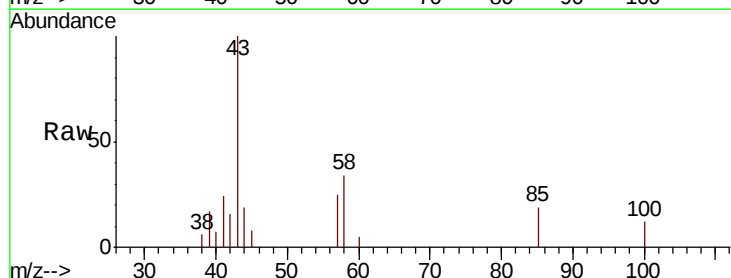
Acq: 11 Sep 2019 7:22

Tgt Ion: 43 Resp: 5209

Ion Ratio Lower Upper

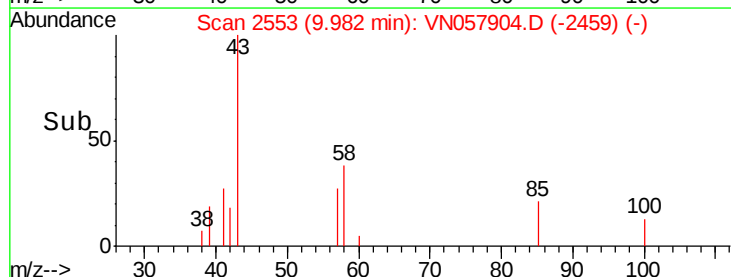
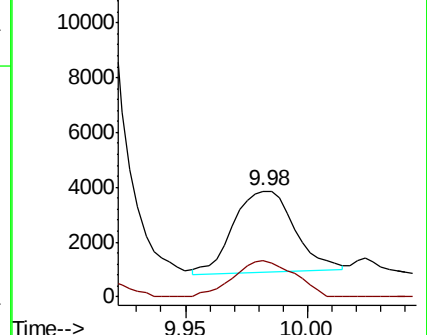
43 100

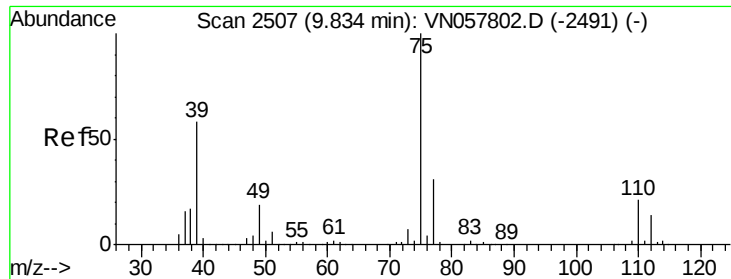
58 44.9 29.8 44.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



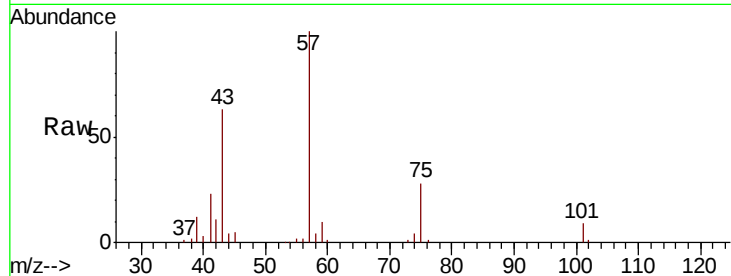


#54

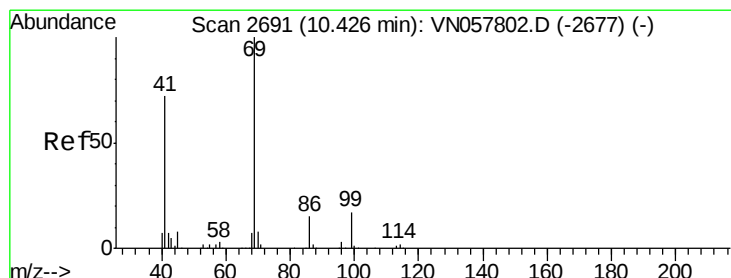
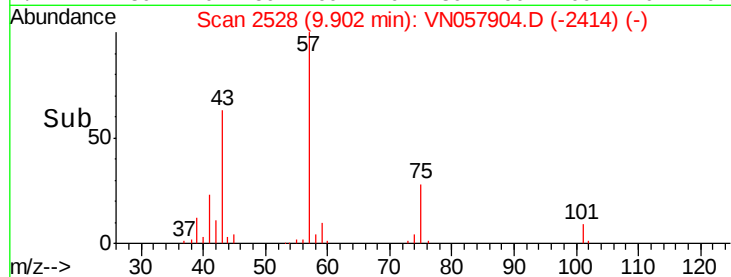
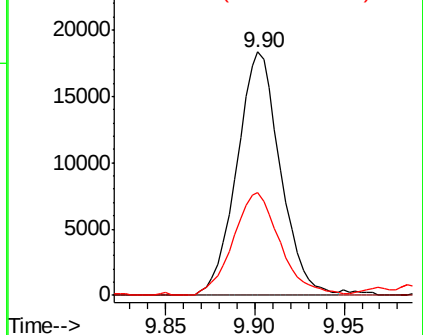
cis-1,3-Dichloropropene
 Concen: 4.293 ug/l
 RT: 9.90 min Scan# 2528
 Delta R.T. 0.07 min
 Lab File: VN057904.D
 Acq: 11 Sep 2019 7:22

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-E2-(4)

Tgt Ion: 75 Resp: 31219
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.8 37.2#
 39 42.0 46.2 69.4#



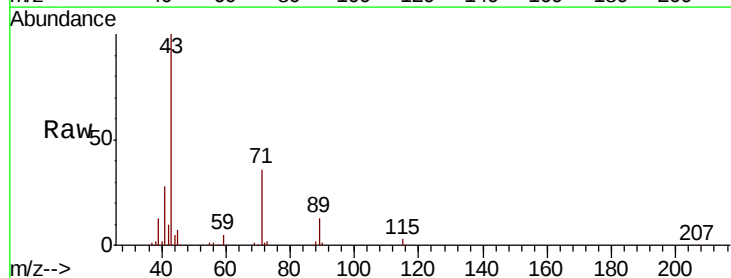
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



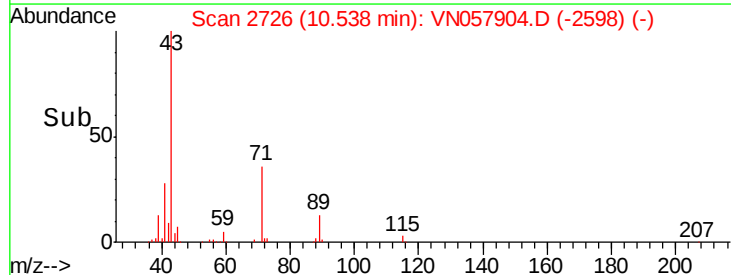
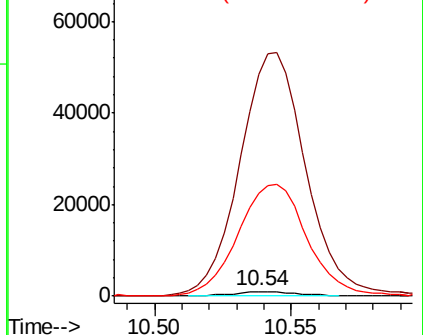
#56

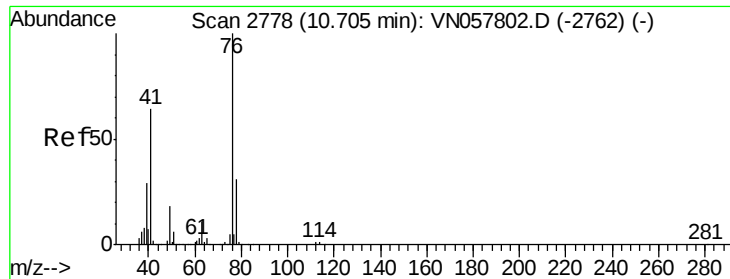
Ethyl methacrylate
 Concen: 0.212 ug/l
 RT: 10.54 min Scan# 2726
 Delta R.T. 0.11 min
 Lab File: VN057904.D
 Acq: 11 Sep 2019 7:22

Tgt Ion: 69 Resp: 1515
 Ion Ratio Lower Upper
 69 100
 41 5941.3 56.7 85.1#
 39 2850.3 36.3 54.5#



Abundance Ion 69.00 (68.70 to 69.70): VNO
 Ion 41.00 (40.70 to 41.70): VNO
 Ion 39.00 (38.70 to 39.70): VNO

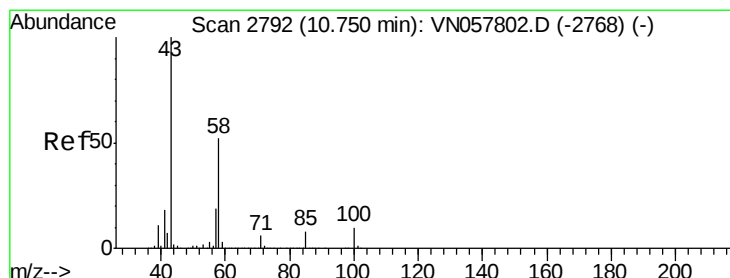
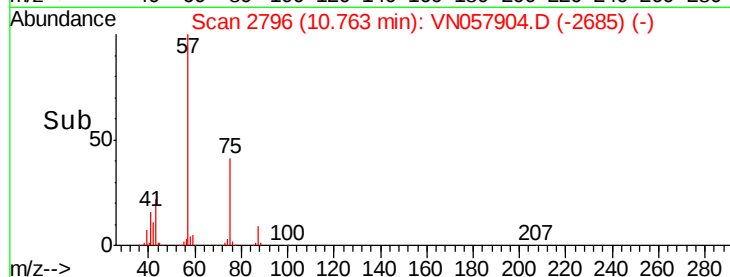
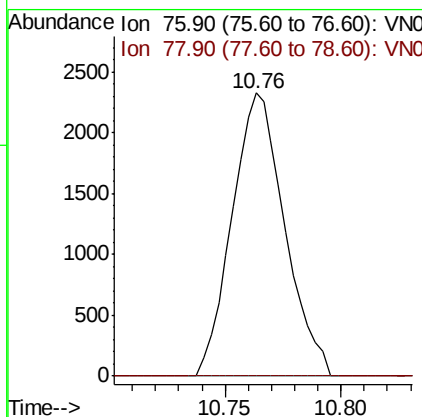
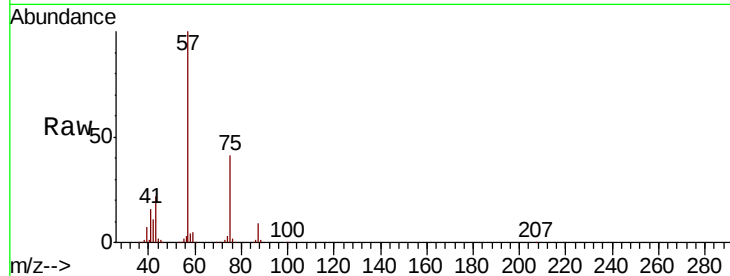




#57
 1,3-Dichloropropane
 Concen: 0.447 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN057904.D
 Acq: 11 Sep 2019 7:22

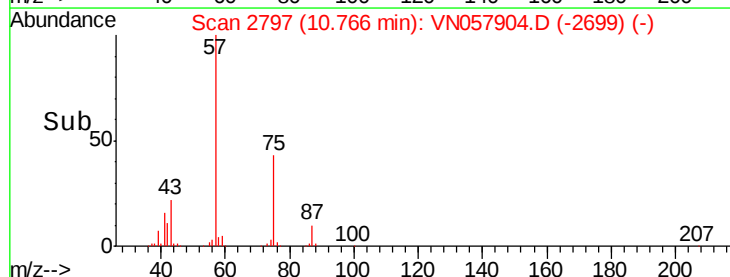
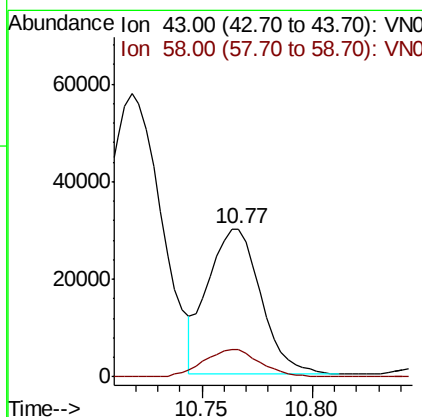
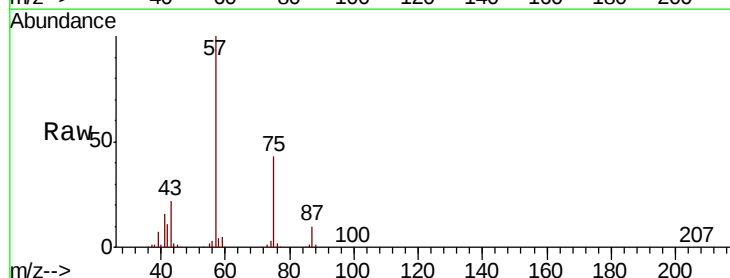
Instrument :
 MSVOA_N
 ClientSampled :
 PAR-11-E2-(4)

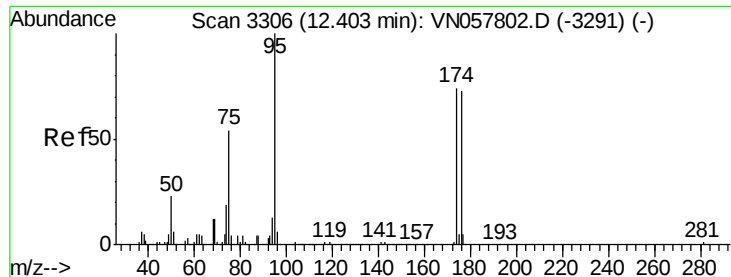
Tgt Ion: 76 Resp: 3661
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.2#



#59
 2-Hexanone
 Concen: 10.826 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.02 min
 Lab File: VN057904.D
 Acq: 11 Sep 2019 7:22

Tgt Ion: 43 Resp: 49367
 Ion Ratio Lower Upper
 43 100
 58 20.4 25.6 76.8#





#62

4-Bromofluorobenzene

Concen: 42.148 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057904.D

Acq: 11 Sep 2019 7:22

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-E2-(4)

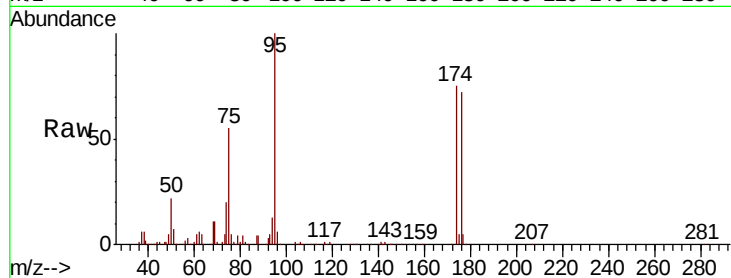
Tgt Ion: 95 Resp: 293661

Ion Ratio Lower Upper

95 100

174 75.6 0.0 150.2

176 73.4 0.0 146.0



Abundance Ion 94.90 (94.60 to 95.60): VN057802.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057802.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057802.D (-3291) (-)

12.40

200000

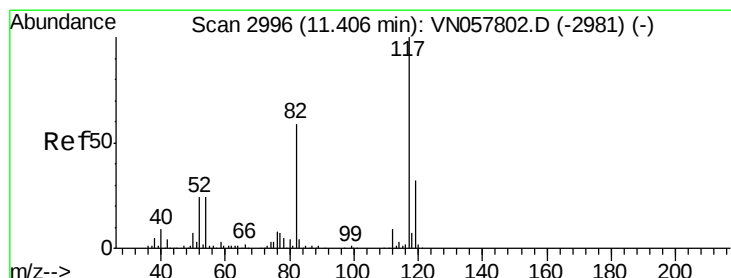
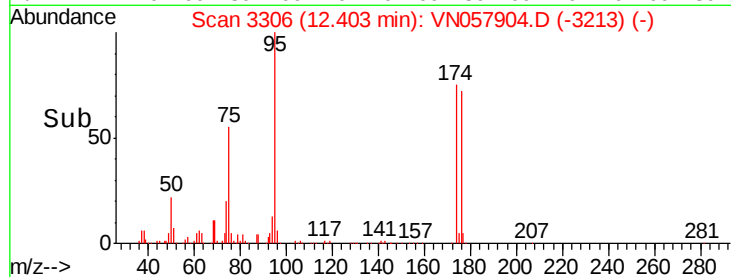
150000

100000

50000

0

Time--> 12.30 12.40 12.50



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057904.D

Acq: 11 Sep 2019 7:22

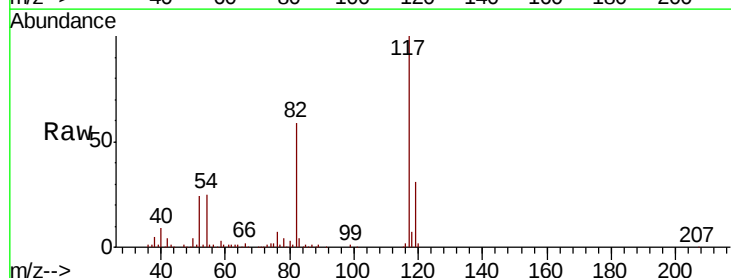
Tgt Ion: 117 Resp: 465279

Ion Ratio Lower Upper

117 100

82 58.9 47.2 70.8

119 31.2 25.3 37.9



Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057802.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057802.D (-2981) (-)

11.41

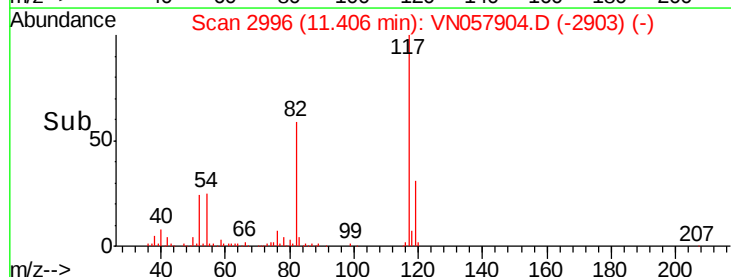
300000

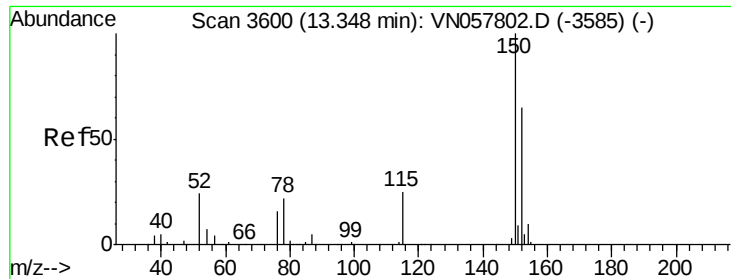
200000

100000

0

Time--> 11.30 11.40 11.50





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057904.D

Acq: 11 Sep 2019 7:22

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-E2-(4)

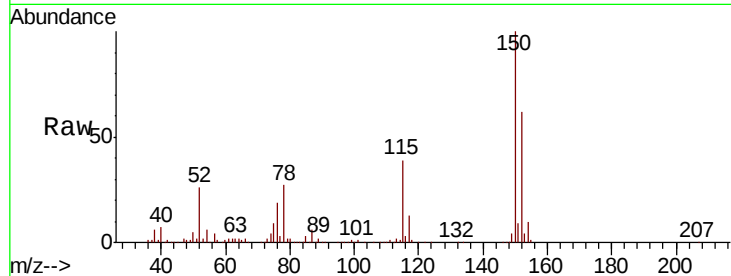
Tgt Ion:152 Resp: 236819

Ion Ratio Lower Upper

152 100

115 60.6 30.3 91.0

150 158.8 0.0 352.4

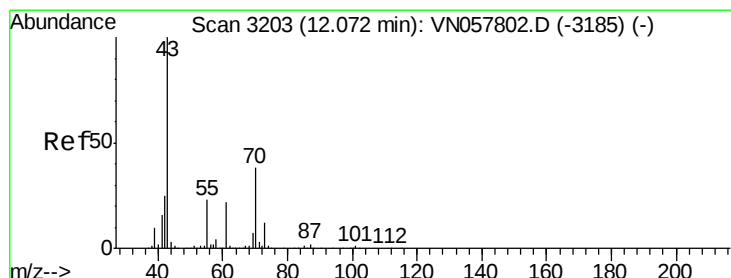
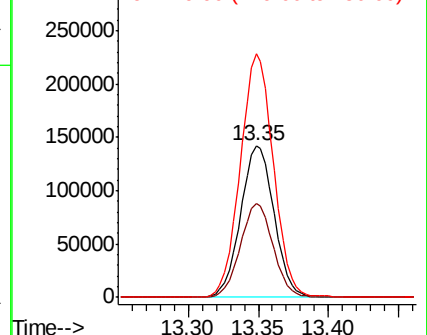
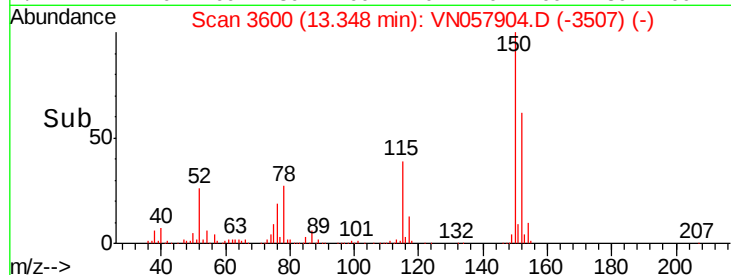


Abundance

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



#74

N-ethyl acetate

Concen: 0.414 ug/l

RT: 12.04 min Scan# 3193

Delta R.T. -0.03 min

Lab File: VN057904.D

Acq: 11 Sep 2019 7:22

Tgt Ion: 43 Resp: 3311

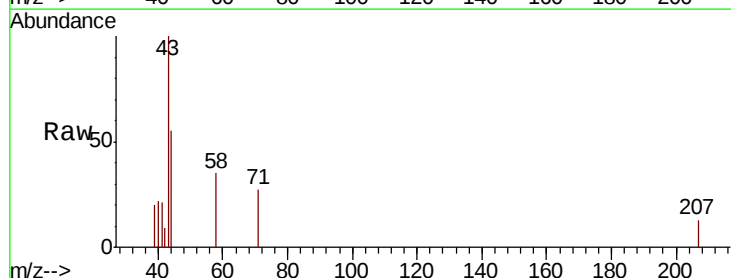
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 0.0 18.6 27.8#

61 0.0 17.4 26.2#



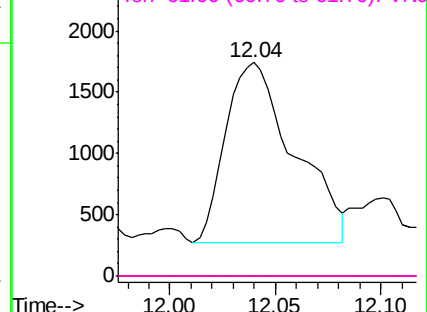
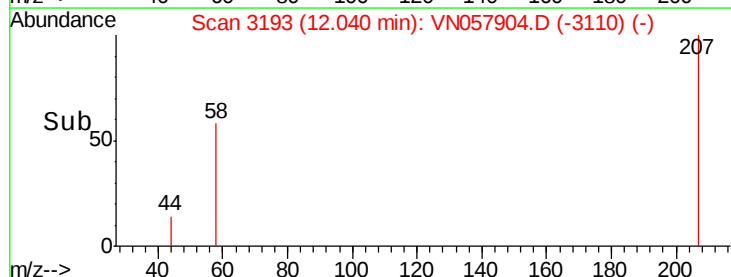
Abundance

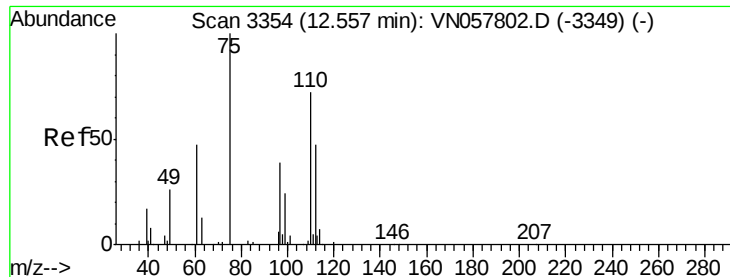
Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 30.648 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057904.D

Acq: 11 Sep 2019 7:22

Instrument :

MSVOA_N

ClientSampleId :

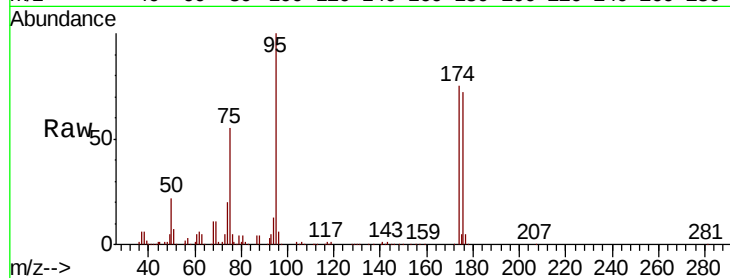
PAR-11-E2-(4)

Tgt Ion: 75 Resp: 164189

Ion Ratio Lower Upper

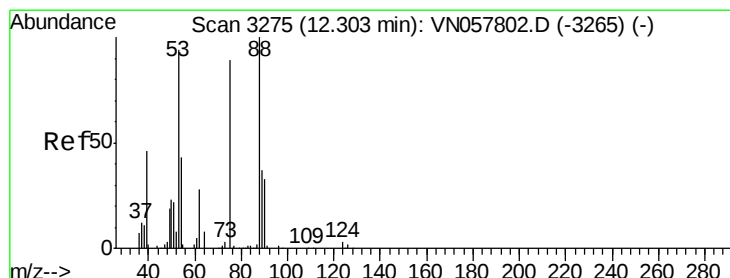
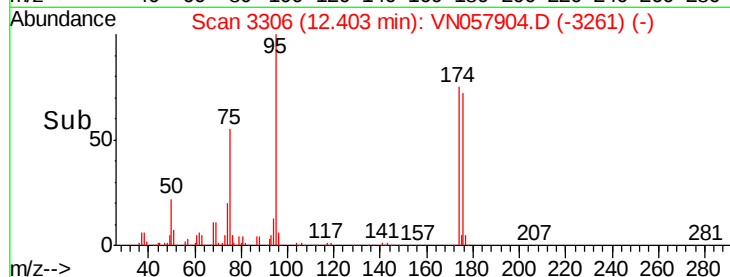
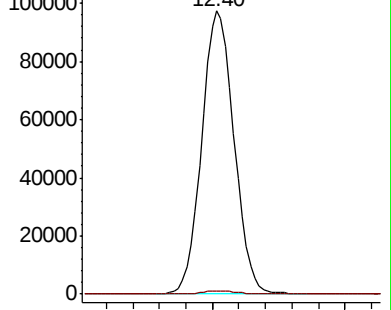
75 100

77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0



#81

trans-1,4-Dichloro-2-butene

Concen: 107.851 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057904.D

Acq: 11 Sep 2019 7:22

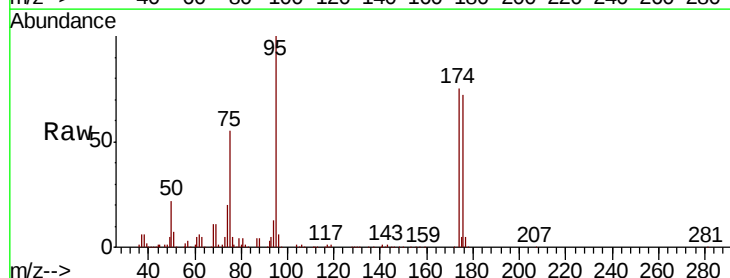
Tgt Ion: 75 Resp: 164189

Ion Ratio Lower Upper

75 100

53 0.0 88.4 132.6#

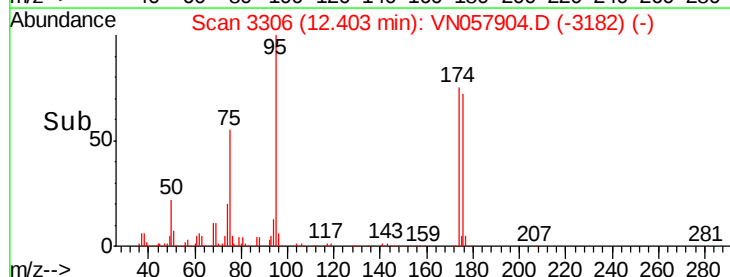
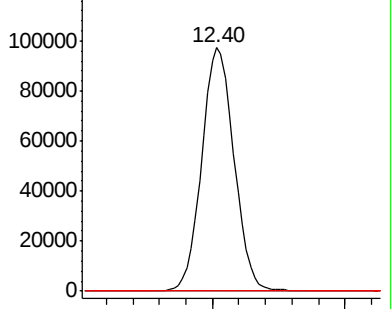
89 0.0 35.3 52.9#

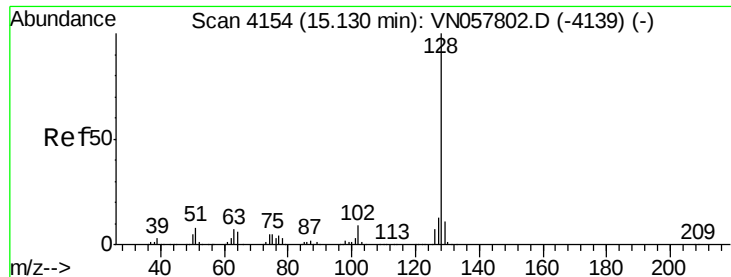


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#95

Naphthalene

Concen: Below Cal

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN057904.D

Acq: 11 Sep 2019 7:22

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-E2-(4)

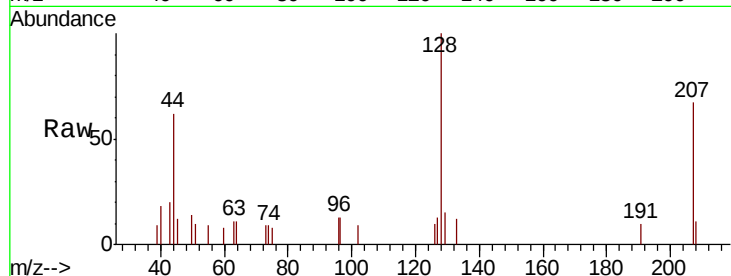
Tgt Ion:128 Resp: 3385

Ion Ratio Lower Upper

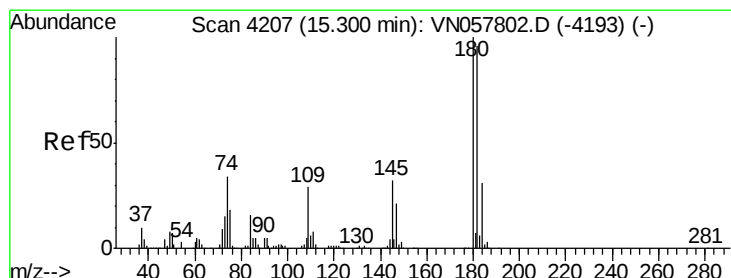
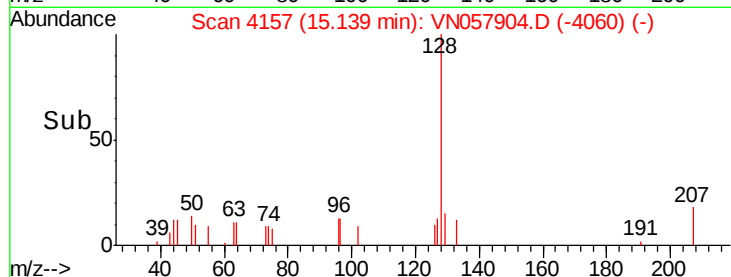
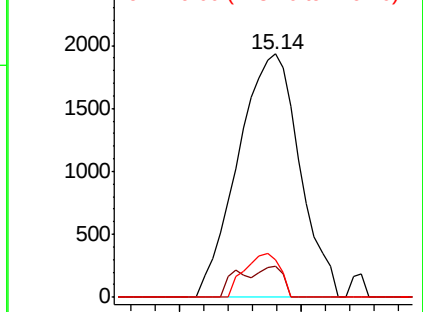
128 100

127 5.0 10.3 15.5#

129 10.3 8.6 12.8



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: 1.197 ug/l

RT: 15.30 min Scan# 4207

Delta R.T. 0.00 min

Lab File: VN057904.D

Acq: 11 Sep 2019 7:22

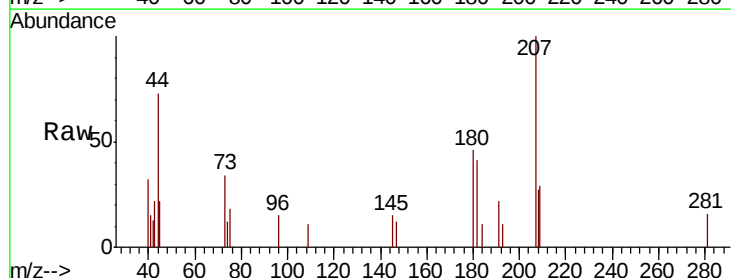
Tgt Ion:180 Resp: 972

Ion Ratio Lower Upper

180 100

182 88.3 48.3 144.8

145 14.7 16.3 48.8#



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

