

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN091119\
 Data File : VN057864.D
 Acq On : 10 Sep 2019 15:55
 Operator : JC/SP
 Sample : K4623-21
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-C2-(0)

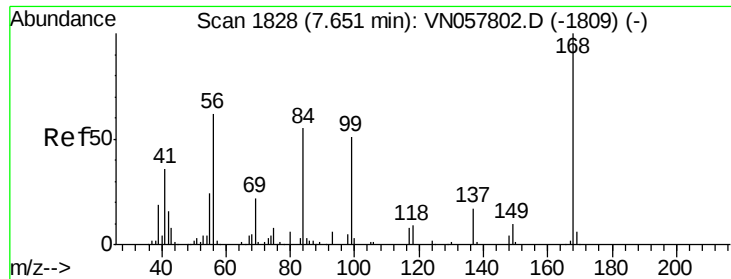
Quant Time: Sep 11 03:53:55 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091019W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 10 03:02:13 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	309655	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	533104	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	488018	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	250074	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	340293	54.26	ug/l	0.00
Spiked Amount			Recovery	=	108.52%	
35) Dibromofluoromethane	7.58	113	232399	47.23	ug/l	0.00
Spiked Amount			Recovery	=	94.46%	
50) Toluene-d8	10.09	98	947746	49.61	ug/l	0.00
Spiked Amount			Recovery	=	99.22%	
62) 4-Bromofluorobenzene	12.40	95	307399	42.22	ug/l	0.00
Spiked Amount			Recovery	=	84.44%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	2.54	94	494	Below Cal		81
11) Tert butyl alcohol	4.73	59	371	0.489	ug/l #	72
16) Acetone	3.80	43	9207	4.478	ug/l	97
17) Carbon Disulfide	4.02	76	1338	0.418	ug/l #	75
18) Methyl Acetate	4.31	43	6448	1.176	ug/l #	74
20) Methylene Chloride	4.53	84	11146	1.657	ug/l	98
29) Tetrahydrofuran	7.19	42	556	0.303	ug/l #	43
31) Cyclohexane	7.65	56	8023	Below Cal	#	1
36) 1,1-Dichloropropene	7.65	75	28244	4.568	ug/l #	46
38) Carbon Tetrachloride	7.65	117	32408	5.741	ug/l #	15
43) Isopropyl Acetate	8.15	43	92961	8.654	ug/l #	88
45) 1,2-Dichloropropane	9.26	63	1809	0.334	ug/l #	44
48) Methyl methacrylate	9.17	41	5592	1.026	ug/l #	13
49) 1,4-Dioxane	9.19	88	65	0.705	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	7973	1.254	ug/l	90
54) cis-1,3-Dichloropropene	9.90	75	36190	4.763	ug/l #	71
59) 2-Hexanone	10.76	43	90187	18.928	ug/l #	55
74) N-amyl acetate	12.04	43	2292	0.271	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	170411	30.123	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	170411	106.005	ug/l #	6
93) 1,2,4-Trichlorobenzene	14.92	180	2619	0.452	ug/l	99
94) Hexachlorobutadiene	15.00	225	620	0.252	ug/l #	40
95) Naphthalene	15.13	128	10506	Below Cal		100
96) 1,2,3-Trichlorobenzene	15.30	180	3733	1.721	ug/l	86

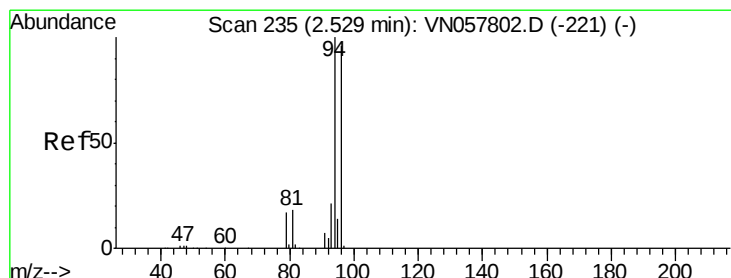
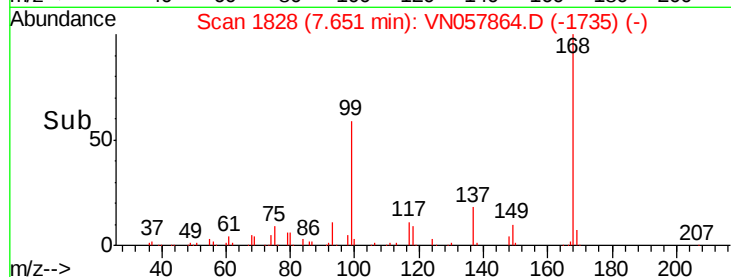
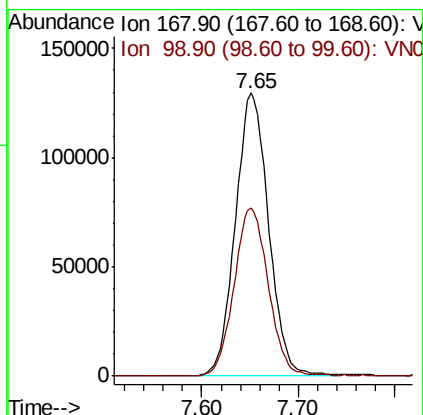
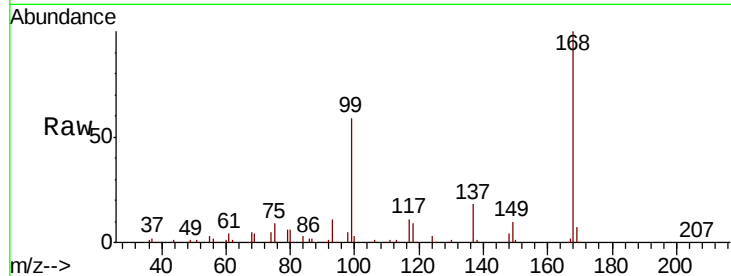
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.00 min
Lab File: VN057864.D
Acq: 10 Sep 2019 15:55

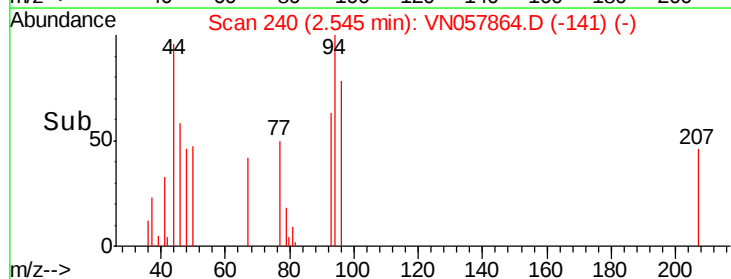
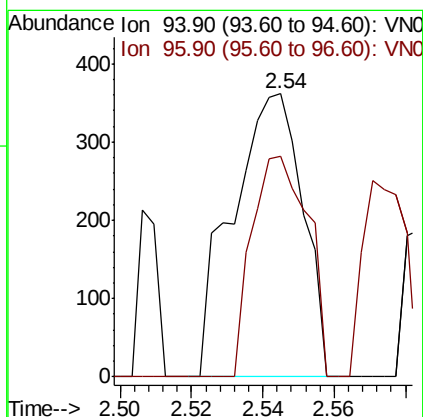
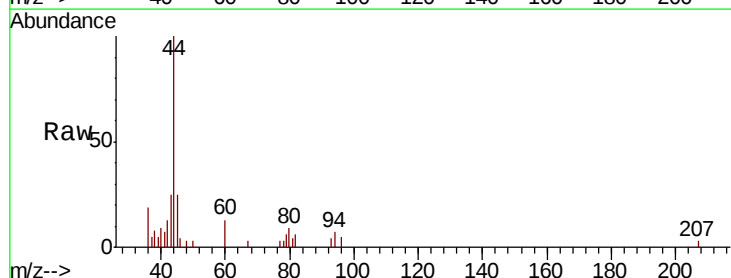
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MSVOA_N
ClientSampleId :
PAR-11-C2-(0)

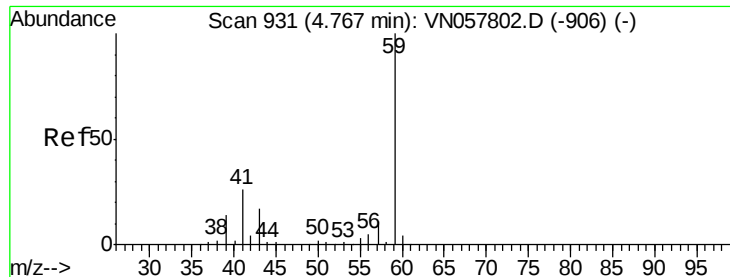
Tgt Ion:168 Resp: 309655
Ion Ratio Lower Upper
168 100
99 59.4 48.0 72.0



#5
Bromomethane
Concen: Below Cal
RT: 2.54 min Scan# 240
Delta R.T. 0.02 min
Lab File: VN057864.D
Acq: 10 Sep 2019 15:55

Tgt Ion: 94 Resp: 494
Ion Ratio Lower Upper
94 100
96 77.9 77.0 115.4

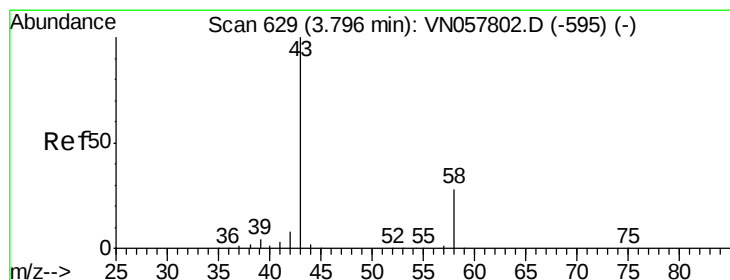
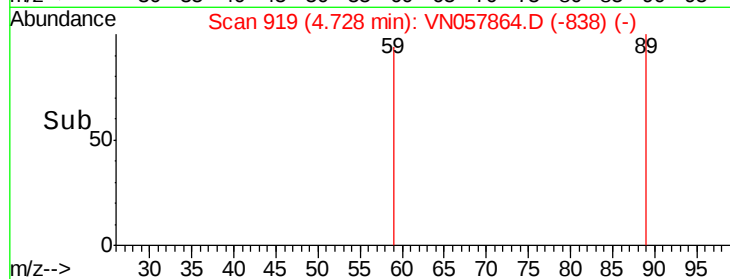
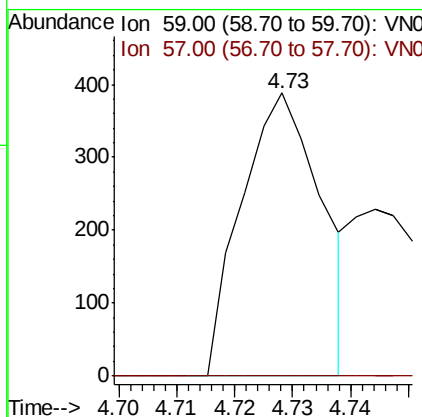
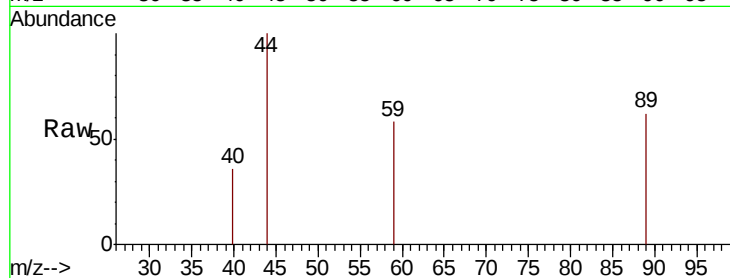




#11
Tert butyl alcohol
Concen: 0.489 ug/l
RT: 4.73 min Scan# 919
Delta R.T. -0.04 min
Lab File: VN057864.D
Acq: 10 Sep 2019 15:55

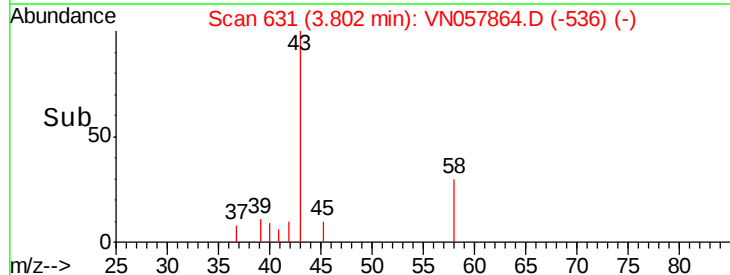
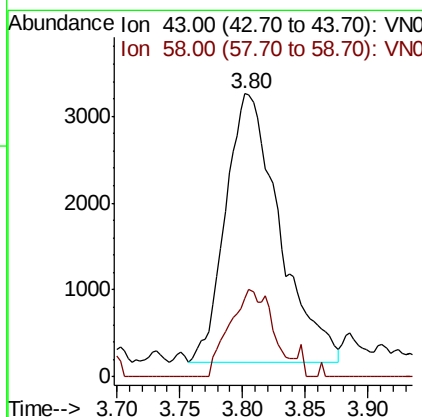
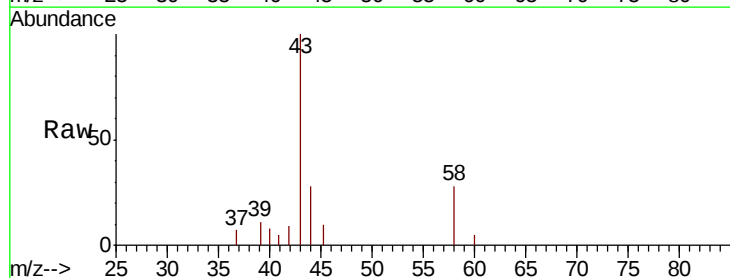
Instrument :
MSVOA_N
ClientSampled :
PAR-11-C2-(0)

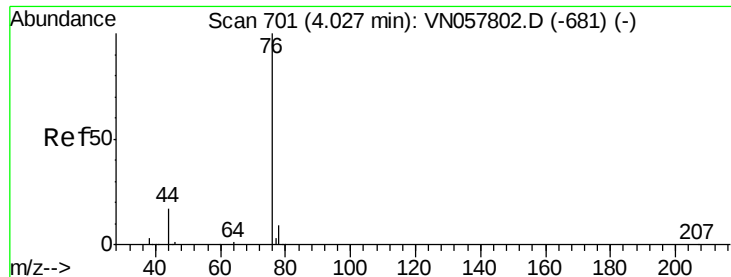
Tgt Ion: 59 Resp: 371
Ion Ratio Lower Upper
59 100
57 0.0 8.4 12.6#



#16
Acetone
Concen: 4.478 ug/l
RT: 3.80 min Scan# 631
Delta R.T. 0.01 min
Lab File: VN057864.D
Acq: 10 Sep 2019 15:55

Tgt Ion: 43 Resp: 9207
Ion Ratio Lower Upper
43 100
58 29.0 22.2 33.2

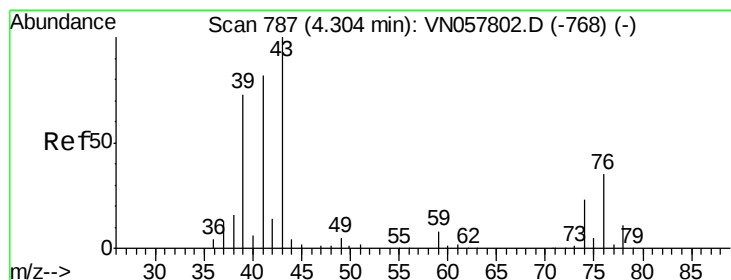
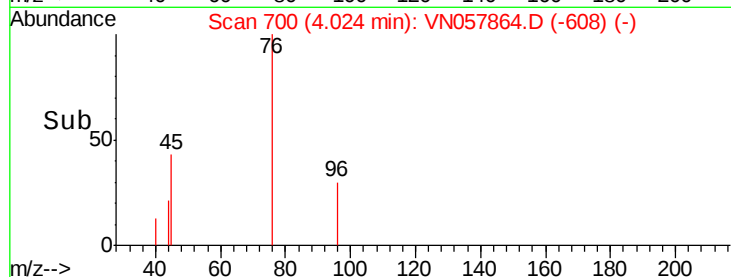
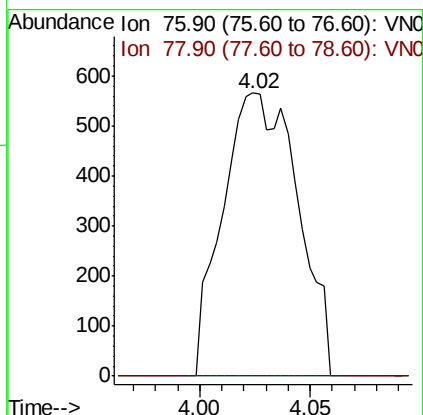
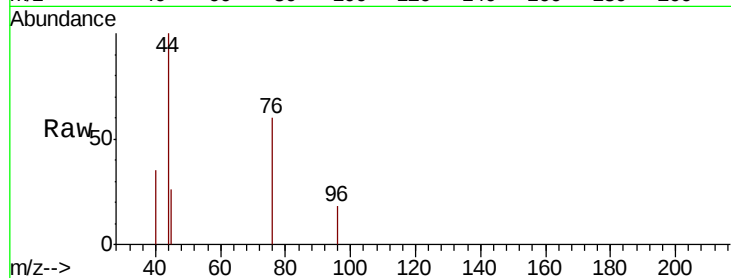




#17
Carbon Disulfide
Concen: 0.418 ug/l
RT: 4.02 min Scan# 700
Delta R.T. -0.00 min
Lab File: VN057864.D
Acq: 10 Sep 2019 15:55

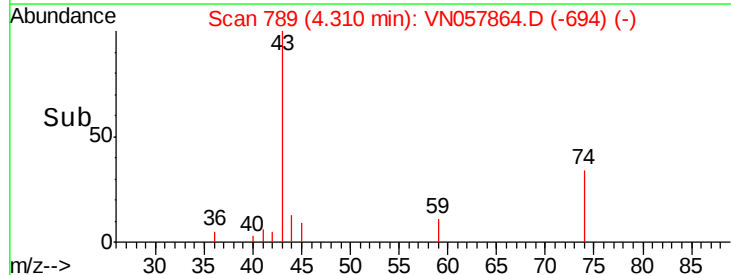
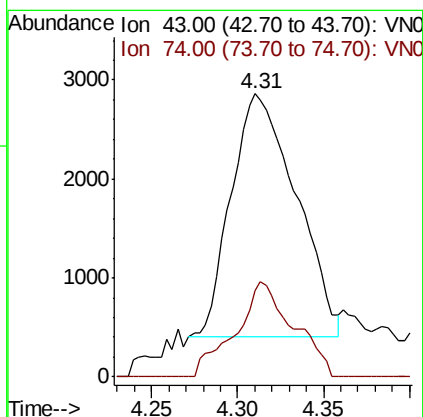
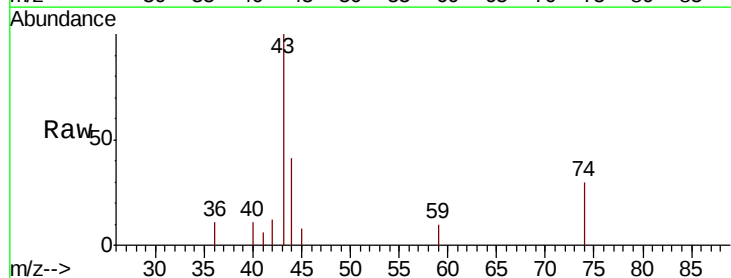
Instrument :
MSVOA_N
ClientSampled :
PAR-11-C2-(0)

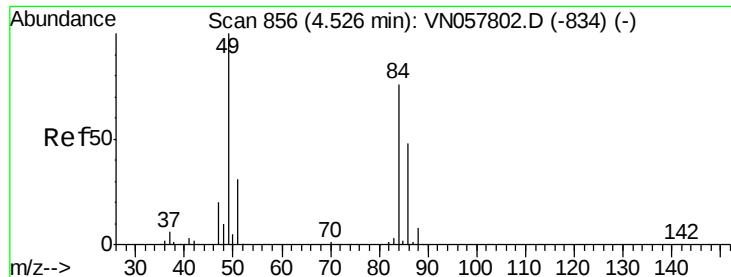
Tgt Ion: 76 Resp: 1338
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#18
Methyl Acetate
Concen: 1.176 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN057864.D
Acq: 10 Sep 2019 15:55

Tgt Ion: 43 Resp: 6448
Ion Ratio Lower Upper
43 100
74 34.8 17.9 26.9#

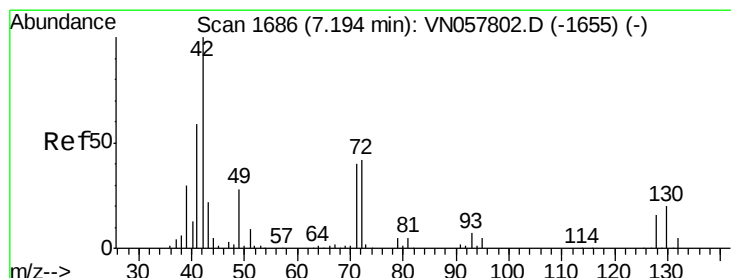
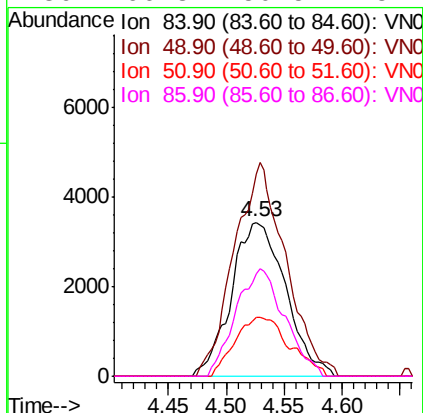
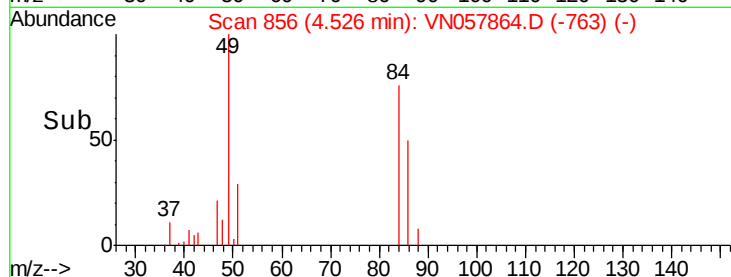
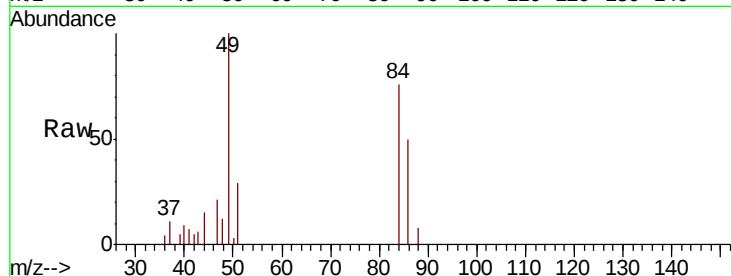




#20
Methylene Chloride
Concen: 1.657 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN057864.D
Acq: 10 Sep 2019 15:55

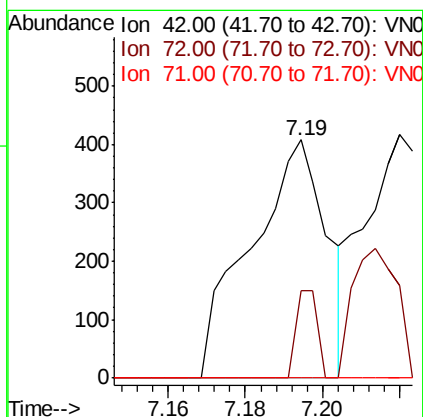
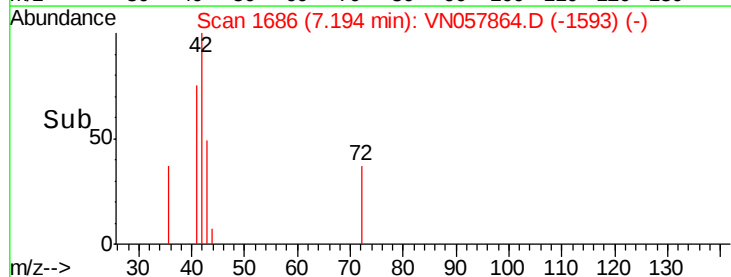
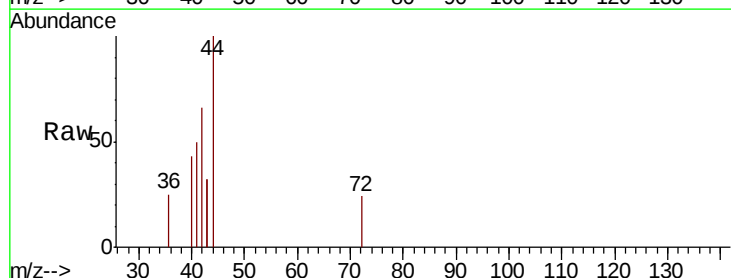
Instrument :
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ClientSampleId :
PAR-11-C2-(0)

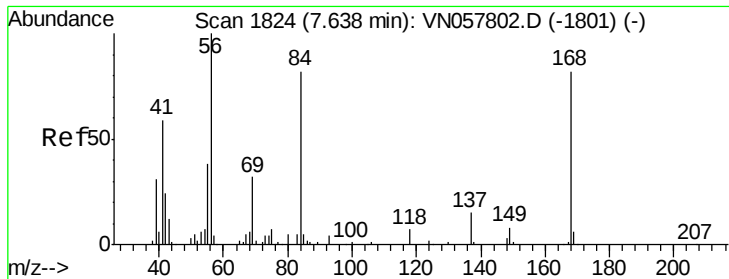
Tgt Ion:	84	Resp:	11146
Ion	Ratio	Lower	Upper
84	100		
49	131.5	104.8	157.2
51	38.4	33.0	49.4
86	66.3	50.5	75.7



#29
Tetrahydrofuran
Concen: 0.303 ug/l
RT: 7.19 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VN057864.D
Acq: 10 Sep 2019 15:55

Tgt Ion:	42	Resp:	556
Ion	Ratio	Lower	Upper
42	100		
72	10.4	33.7	50.5#
71	0.0	31.9	47.9#

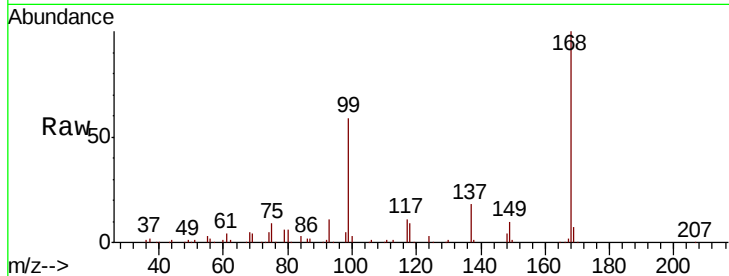




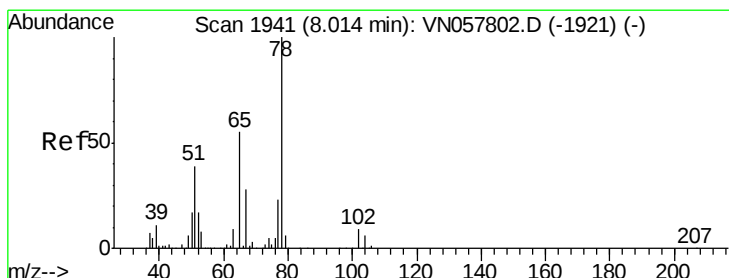
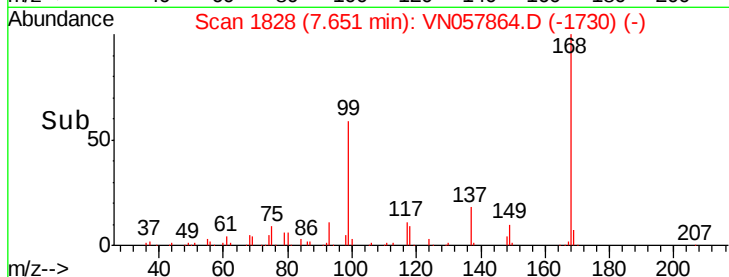
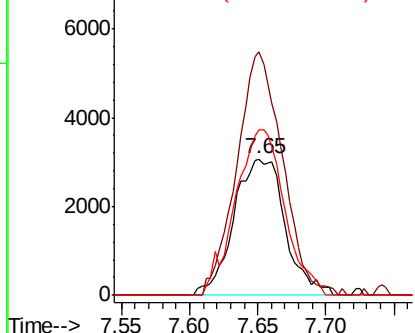
#31
Cyclohexane
Concen: Below Cal
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN057864.D
Acq: 10 Sep 2019 15:55

Instrument :
MSVOA_N
ClientSampleId :
PAR-11-C2-(0)

Tgt Ion: 56 Resp: 8023
Ion Ratio Lower Upper
56 100
69 178.3 25.9 38.9#
84 120.8 65.6 98.4#

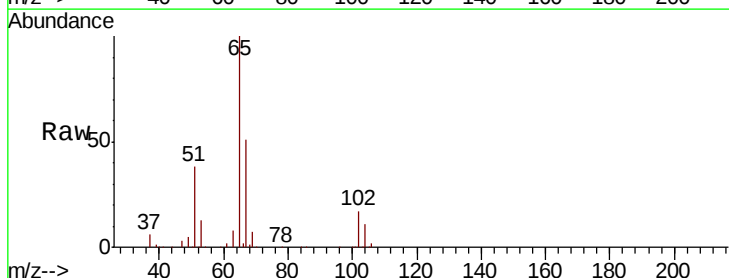


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

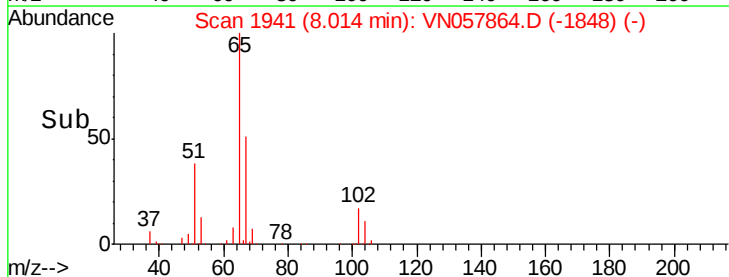
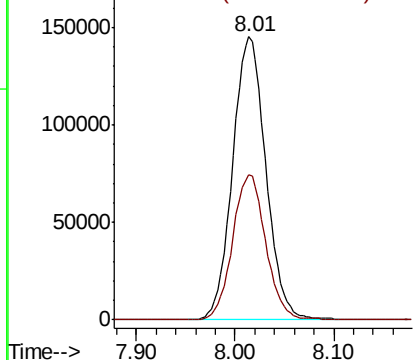


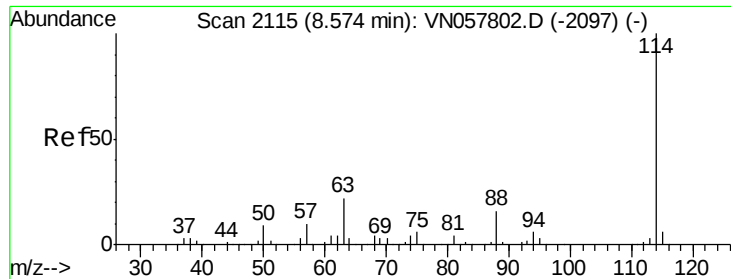
#33
1,2-Dichloroethane-d4
Concen: 54.257 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN057864.D
Acq: 10 Sep 2019 15:55

Tgt Ion: 65 Resp: 340293
Ion Ratio Lower Upper
65 100
67 51.1 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

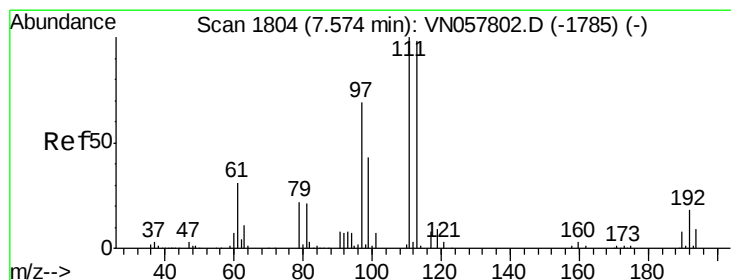
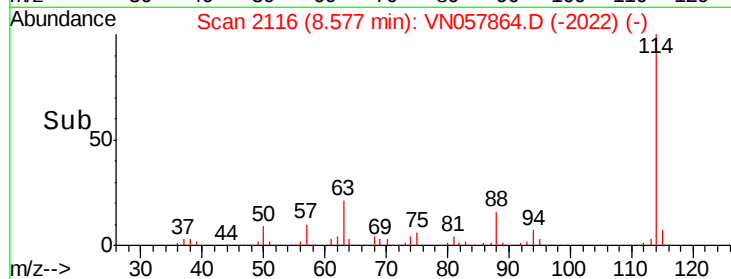
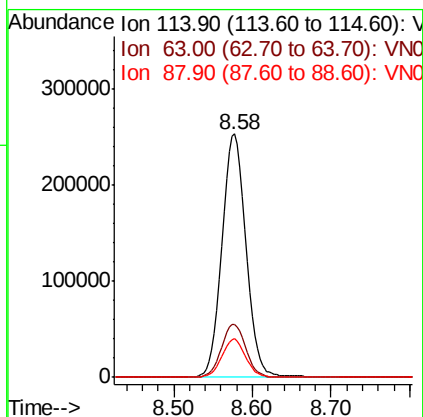
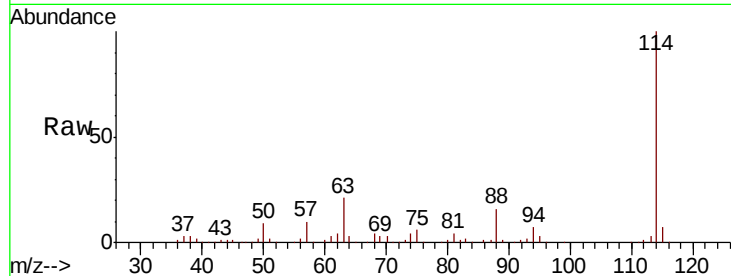




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2116
 Delta R.T. 0.00 min
 Lab File: VN057864.D
 Acq: 10 Sep 2019 15:55

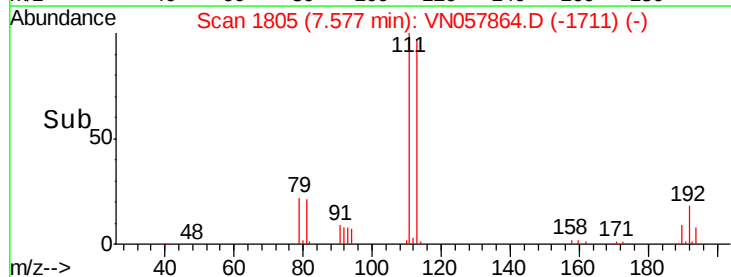
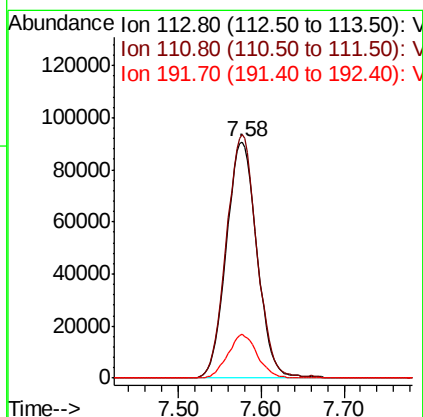
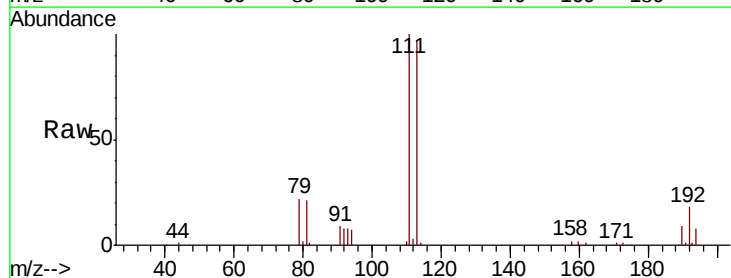
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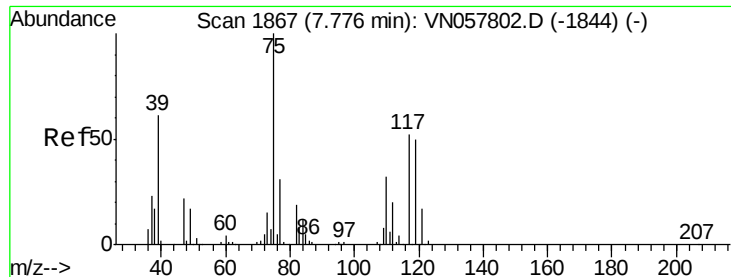
Tgt Ion:114 Resp: 533104
 Ion Ratio Lower Upper
 114 100
 63 21.5 0.0 44.0
 88 15.8 0.0 31.4



#35
 Dibromofluoromethane
 Concen: 47.232 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057864.D
 Acq: 10 Sep 2019 15:55

Tgt Ion:113 Resp: 232399
 Ion Ratio Lower Upper
 113 100
 111 102.3 81.3 121.9
 192 17.8 14.6 22.0

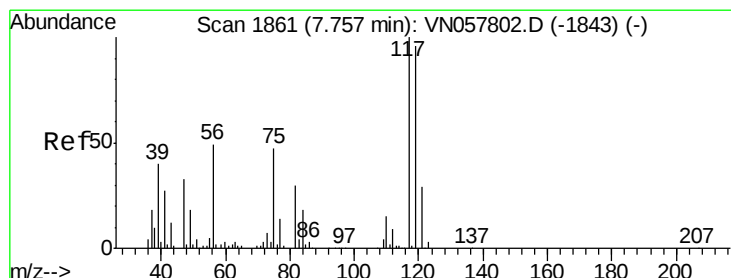
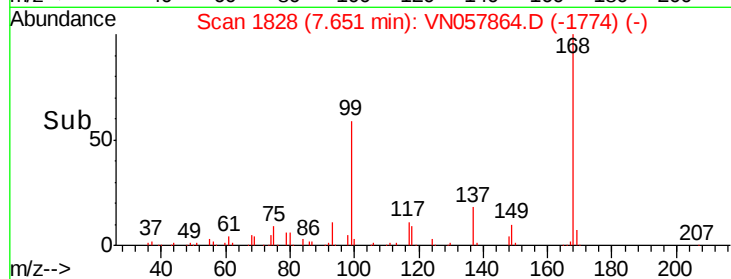
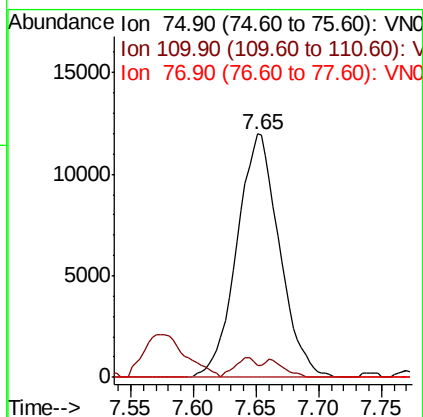
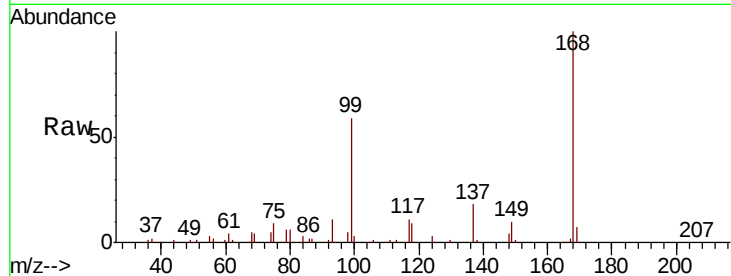




#36
 1,1-Dichloropropene
 Concen: 4.568 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057864.D
 Acq: 10 Sep 2019 15:55

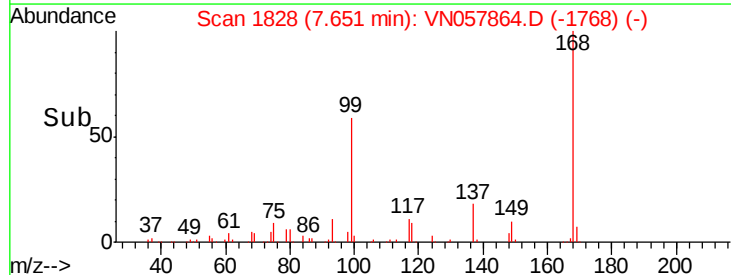
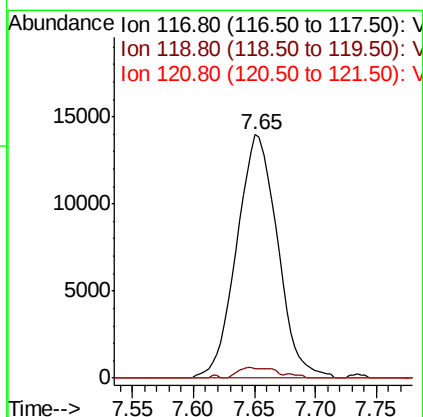
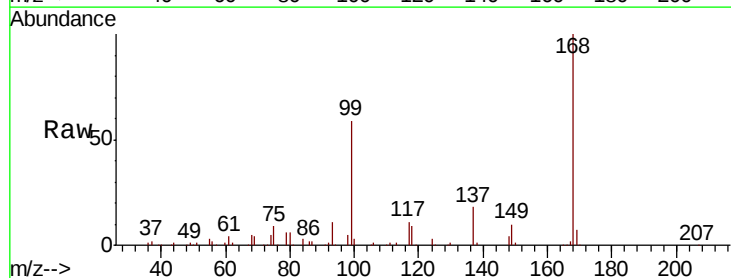
Instrument :
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 ClientSampleId :
 PAR-11-C2-(0)

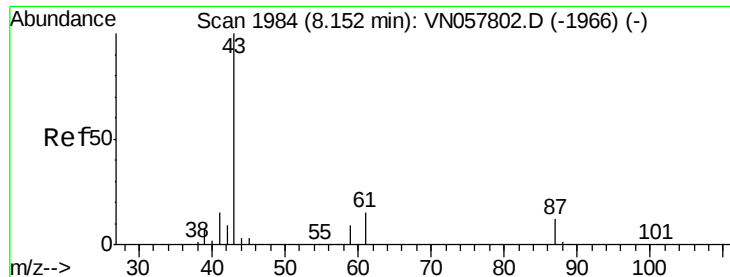
Tgt Ion: 75 Resp: 28244
 Ion Ratio Lower Upper
 75 100
 110 3.3 16.3 48.9#
 77 0.0 25.0 37.4#



#38
 Carbon Tetrachloride
 Concen: 5.741 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057864.D
 Acq: 10 Sep 2019 15:55

Tgt Ion: 117 Resp: 32408
 Ion Ratio Lower Upper
 117 100
 119 4.1 76.9 115.3#
 121 0.0 23.4 35.2#





#43

Isopropyl Acetate

Concen: 8.654 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057864.D

Acq: 10 Sep 2019 15:55

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C2-(0)

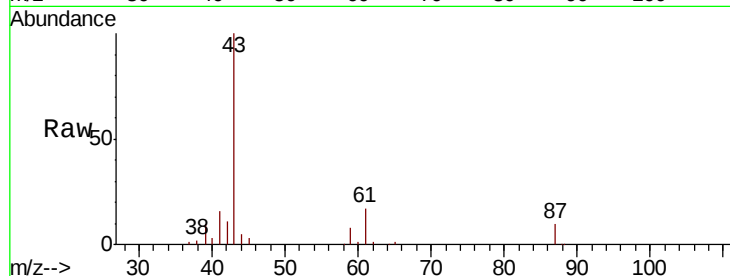
Tgt Ion: 43 Resp: 92961

Ion Ratio Lower Upper

43 100

61 17.1 20.1 30.1#

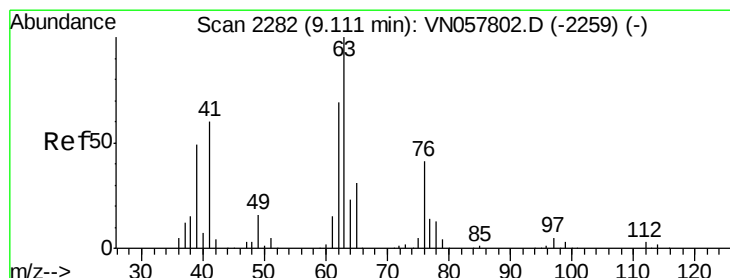
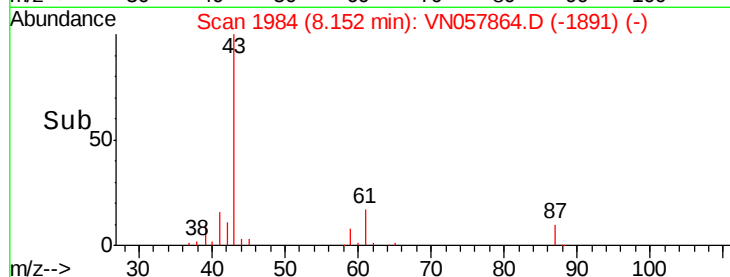
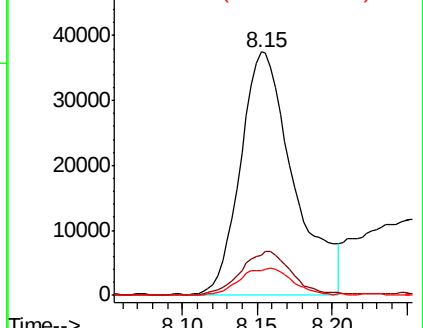
87 10.9 9.5 14.3



Abundance Ion 43.00 (42.70 to 43.70): VN057802.D (-1966) (-)

Ion 61.00 (60.70 to 61.70): VN057802.D (-1966) (-)

Ion 87.00 (86.70 to 87.70): VN057802.D (-1966) (-)



#45

1,2-Dichloropropane

Concen: 0.334 ug/l

RT: 9.26 min Scan# 2329

Delta R.T. 0.15 min

Lab File: VN057864.D

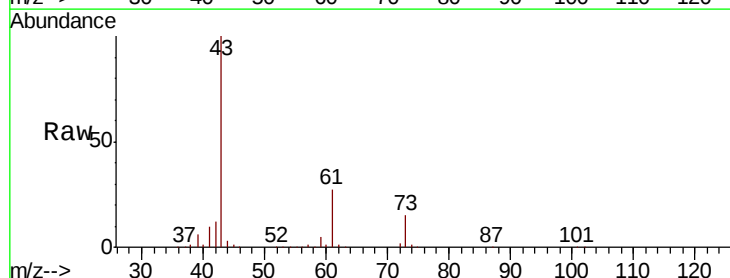
Acq: 10 Sep 2019 15:55

Tgt Ion: 63 Resp: 1809

Ion Ratio Lower Upper

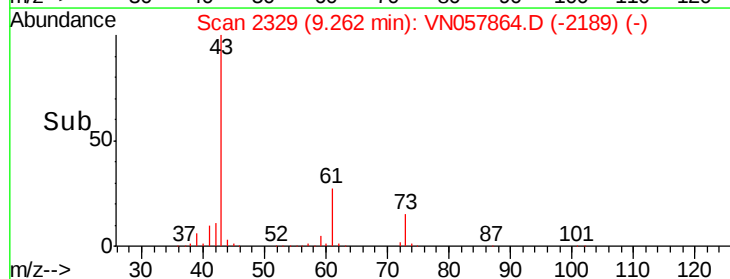
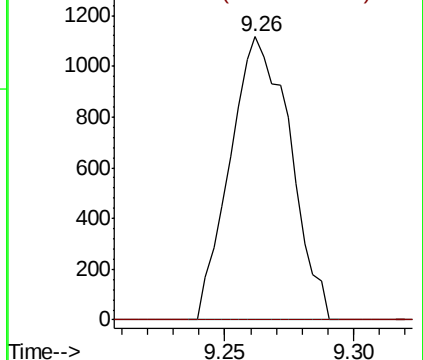
63 100

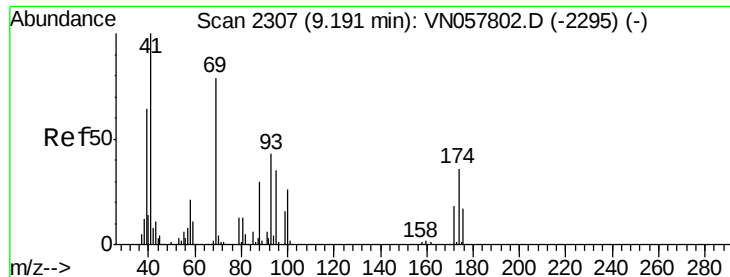
65 0.0 24.8 37.2#



Abundance Ion 62.90 (62.60 to 63.60): VN057802.D (-2259) (-)

Ion 64.90 (64.60 to 65.60): VN057802.D (-2259) (-)

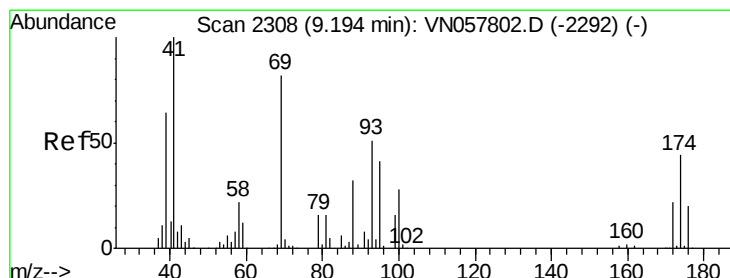
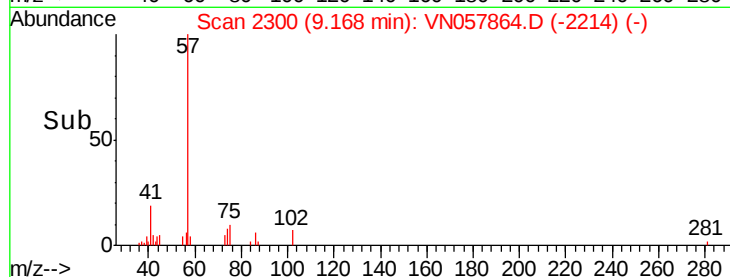
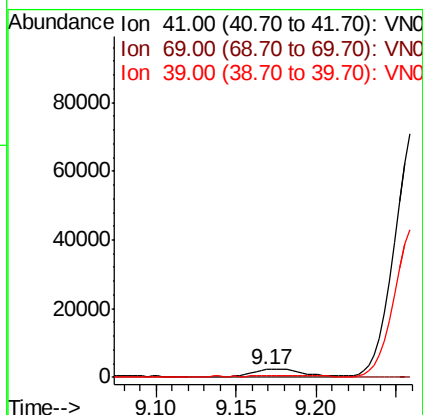
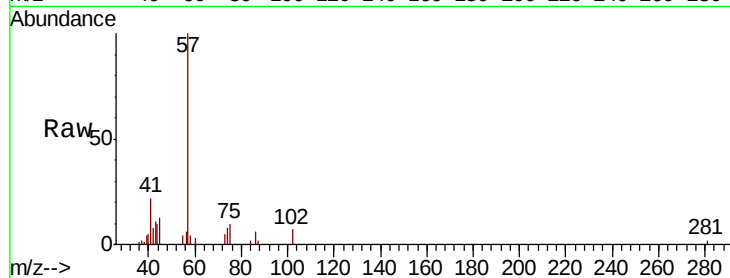




#48
Methyl methacrylate
Concen: 1.026 ug/l
RT: 9.17 min Scan# 2300
Delta R.T. -0.02 min
Lab File: VN057864.D
Acq: 10 Sep 2019 15:55

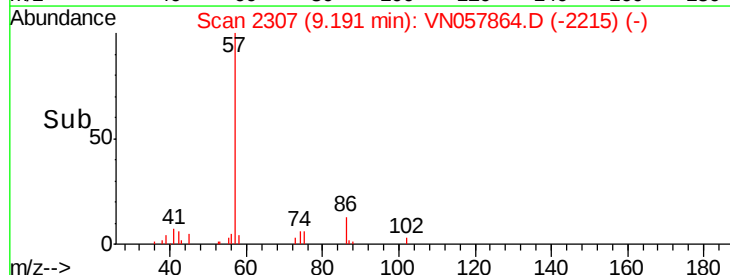
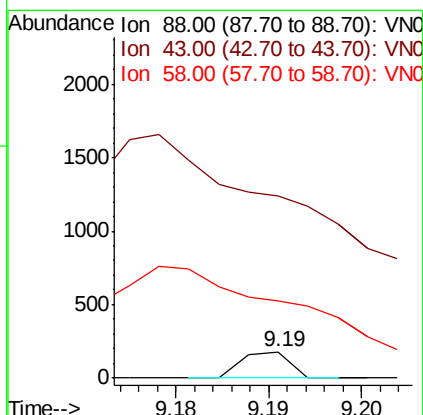
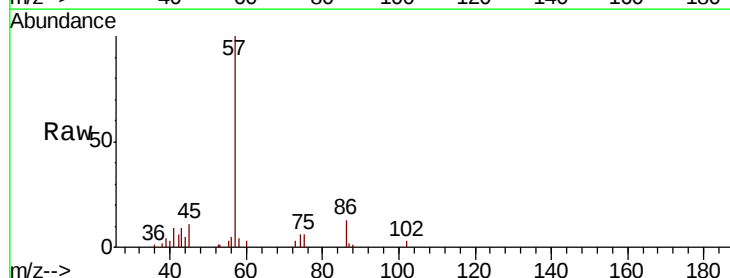
Instrument :
MSVOA_N
ClientSampleId :
PAR-11-C2-(0)

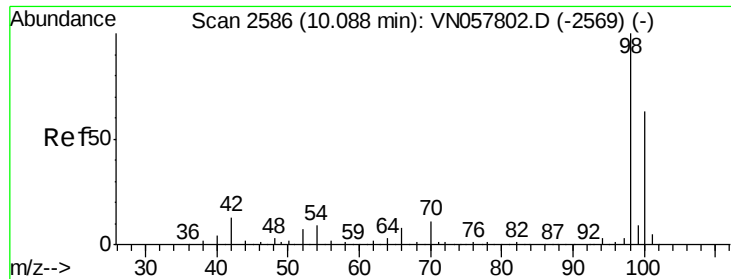
Tgt Ion: 41 Resp: 5592
Ion Ratio Lower Upper
41 100
69 0.0 62.7 94.1#
39 0.0 52.7 79.1#



#49
1,4-Dioxane
Concen: 0.705 ug/l
RT: 9.19 min Scan# 2307
Delta R.T. -0.00 min
Lab File: VN057864.D
Acq: 10 Sep 2019 15:55

Tgt Ion: 88 Resp: 65
Ion Ratio Lower Upper
88 100
43 0.0 28.5 42.7#
58 2186.2 55.8 83.6#





#50

Toluene-d8

Concen: 49.611 ug/l

RT: 10.09 min Scan# 2586

Delta R.T. 0.00 min

Lab File: VN057864.D

Acq: 10 Sep 2019 15:55

Instrument :

MSVOA_N

ClientSampleId :

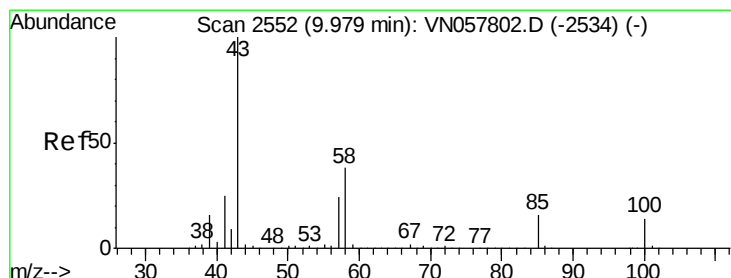
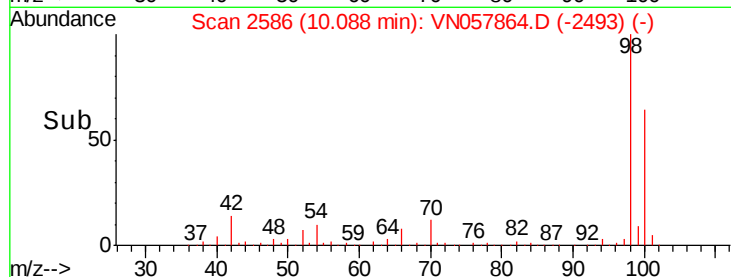
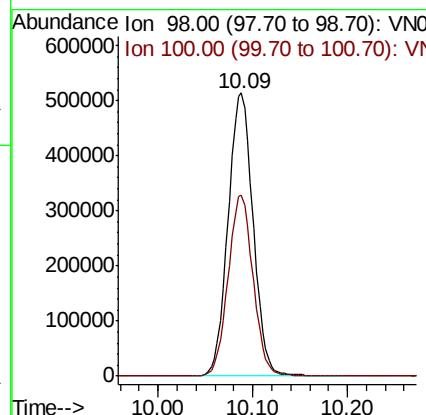
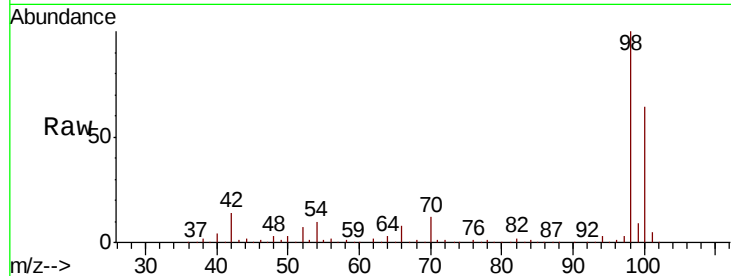
PAR-11-C2-(0)

Tgt Ion: 98 Resp: 947746

Ion Ratio Lower Upper

98 100

100 63.8 50.3 75.5



#51

4-Methyl-2-Pentanone

Concen: 1.254 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN057864.D

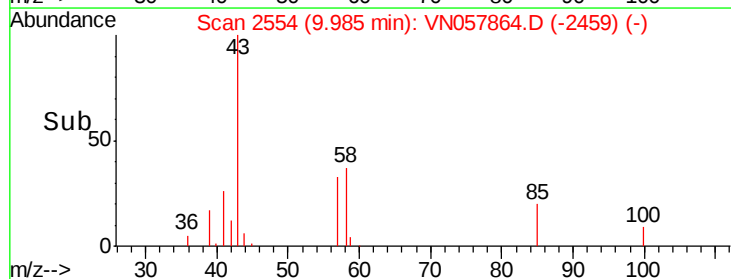
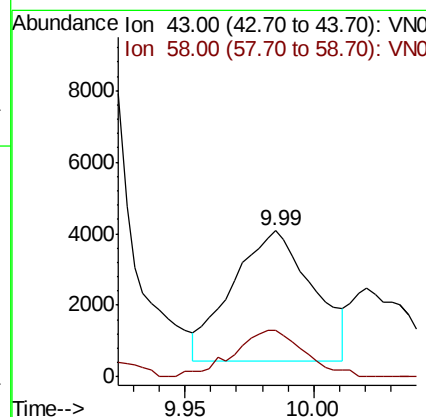
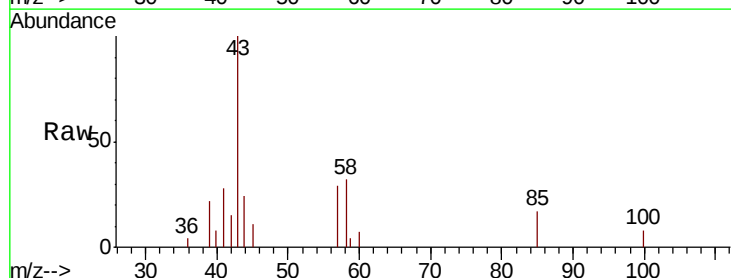
Acq: 10 Sep 2019 15:55

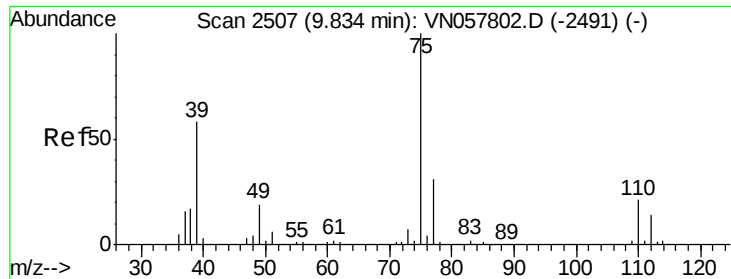
Tgt Ion: 43 Resp: 7973

Ion Ratio Lower Upper

43 100

58 31.2 29.8 44.6





#54

cis-1,3-Dichloropropene

Concen: 4.763 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057864.D

Acq: 10 Sep 2019 15:55

Instrument :

MSVOA_N

ClientSampled :

PAR-11-C2-(0)

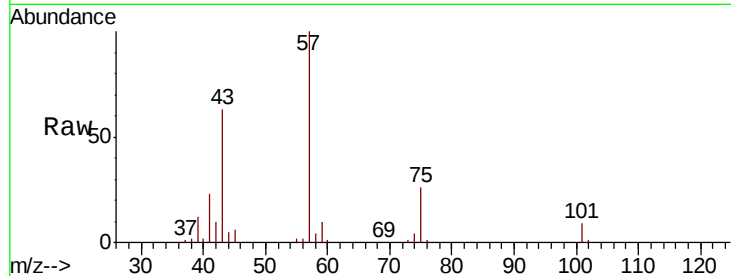
Tgt Ion: 75 Resp: 36190

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

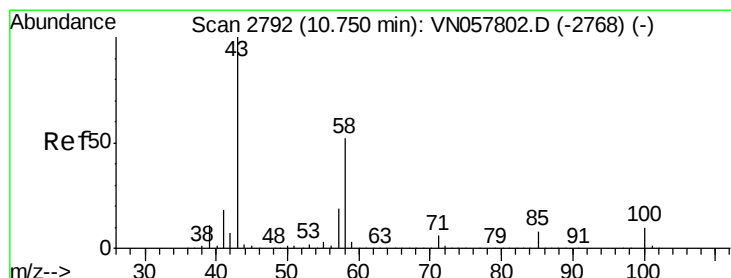
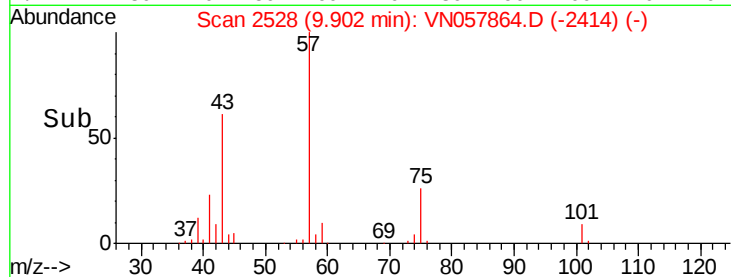
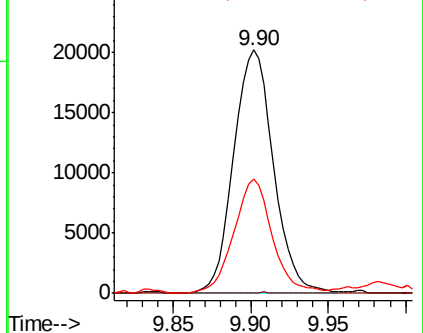
39 47.1 46.2 69.4



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 18.928 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN057864.D

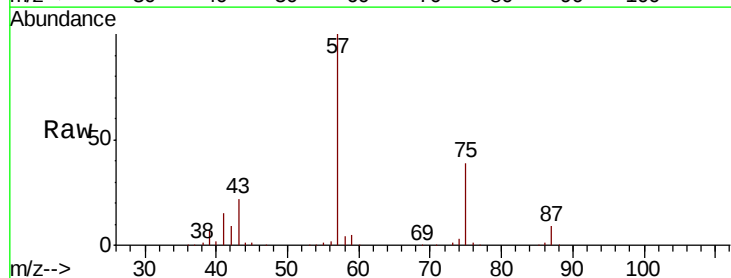
Acq: 10 Sep 2019 15:55

Tgt Ion: 43 Resp: 90187

Ion Ratio Lower Upper

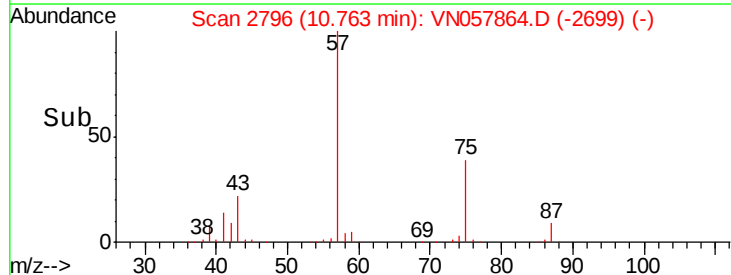
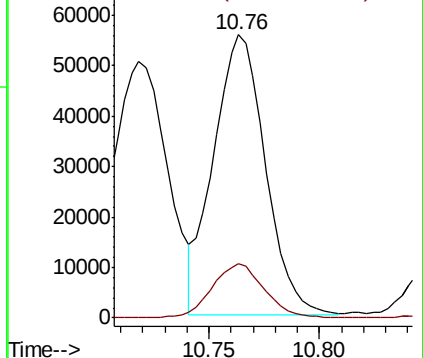
43 100

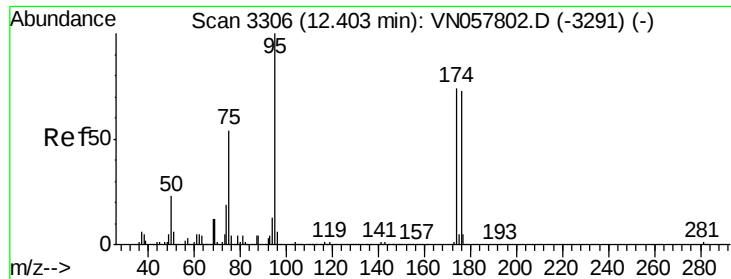
58 19.5 25.6 76.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 42.225 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057864.D

Acq: 10 Sep 2019 15:55

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C2-(0)

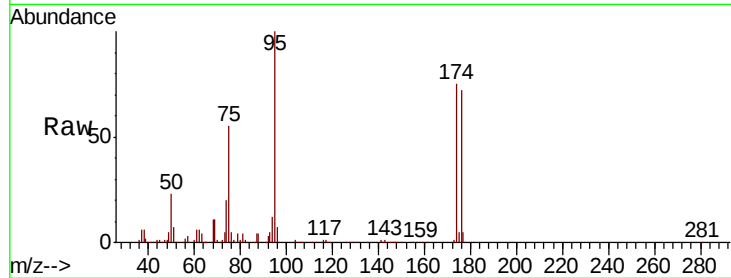
Tgt Ion: 95 Resp: 307399

Ion Ratio Lower Upper

95 100

174 74.9 0.0 150.2

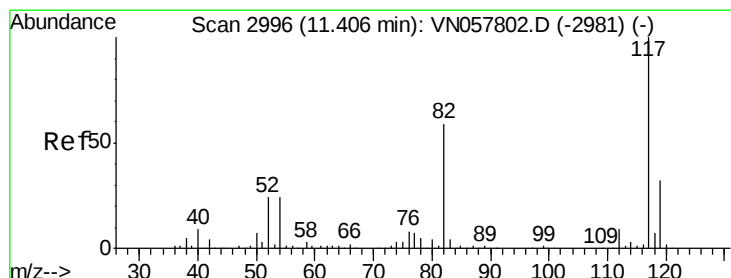
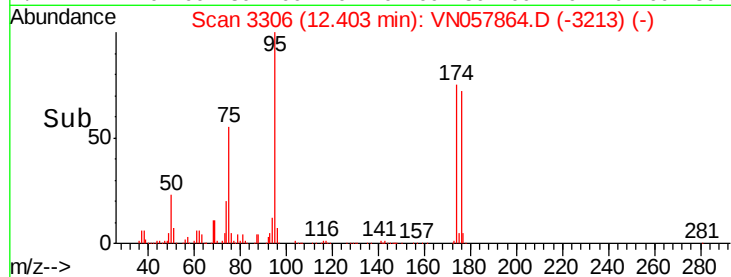
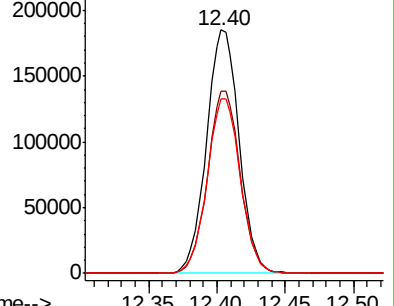
176 73.0 0.0 146.0



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) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057864.D

Acq: 10 Sep 2019 15:55

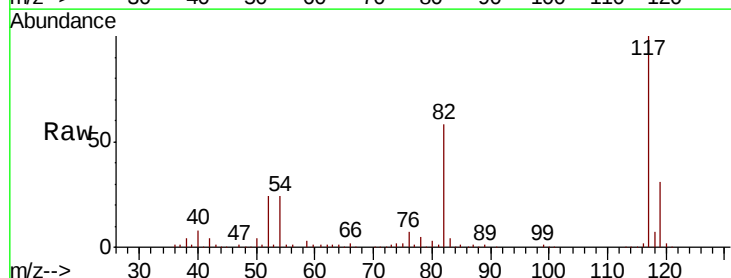
Tgt Ion: 117 Resp: 488018

Ion Ratio Lower Upper

117 100

82 58.5 47.2 70.8

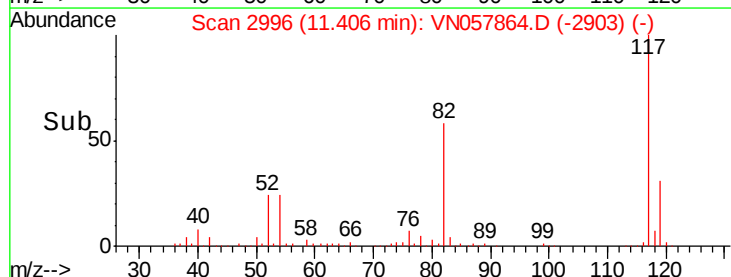
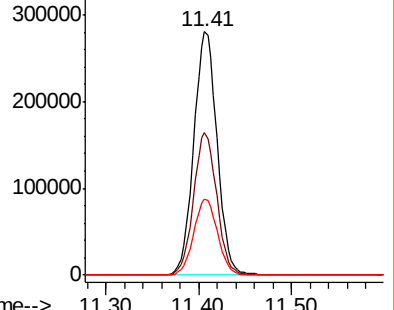
119 31.2 25.3 37.9

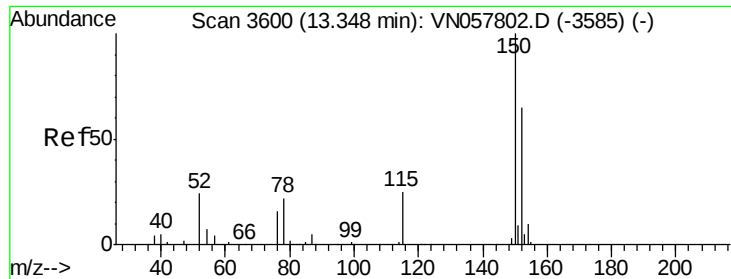


Abundance Ion 116.90 (116.60 to 117.60): VN057802.D (-2981) (-)

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

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3600

Delta R.T. 0.00 min

Lab File: VN057864.D

Acq: 10 Sep 2019 15:55

Instrument :

MSVOA_N

ClientSampleId :

PAR-11-C2-(0)

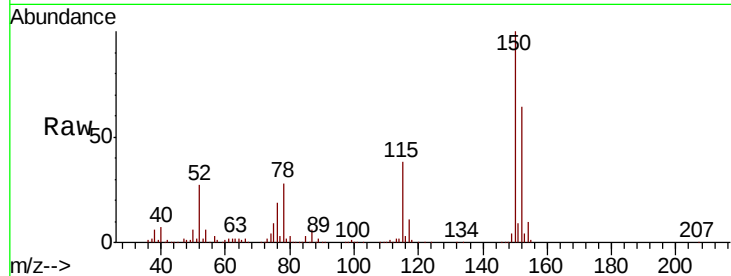
Tgt Ion:152 Resp: 250074

Ion Ratio Lower Upper

152 100

115 60.1 30.3 91.0

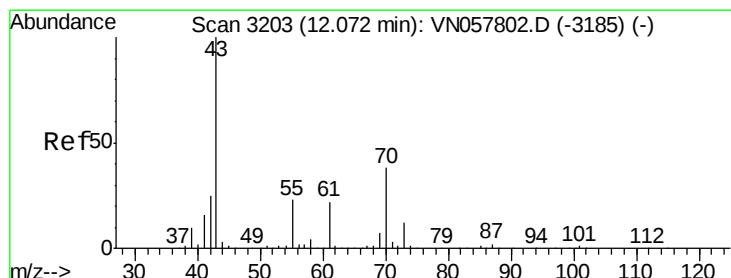
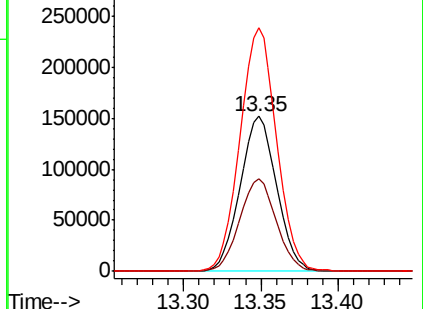
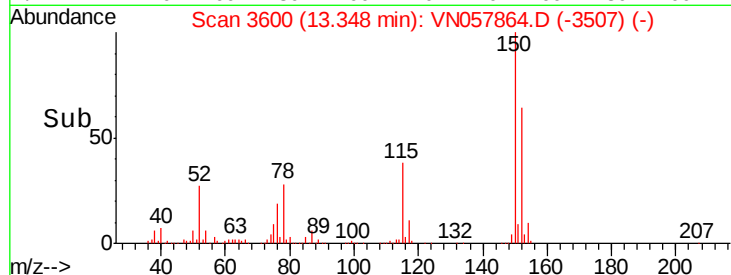
150 156.9 0.0 352.4



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: 0.271 ug/l

RT: 12.04 min Scan# 3194

Delta R.T. -0.03 min

Lab File: VN057864.D

Acq: 10 Sep 2019 15:55

Tgt Ion: 43 Resp: 2292

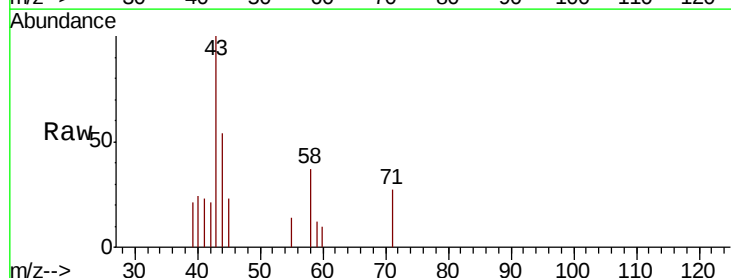
Ion Ratio Lower Upper

43 100

70 0.0 30.6 45.8#

55 10.7 18.6 27.8#

61 0.0 17.4 26.2#

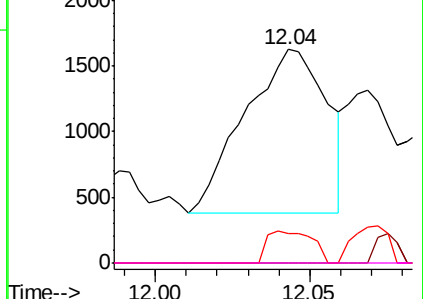
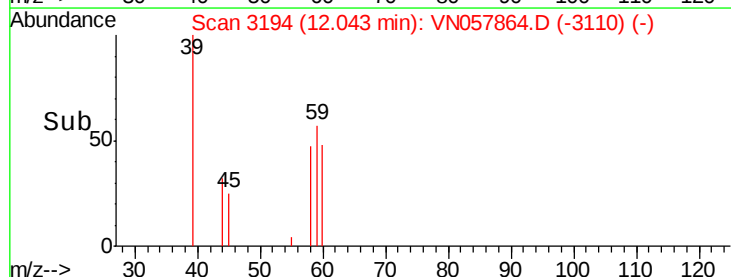


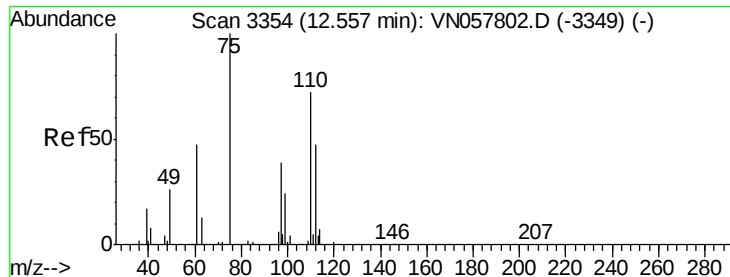
Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO





#76

1,2,3-Trichloropropane

Concen: 30.123 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057864.D

Acq: 10 Sep 2019 15:55

Instrument :

MSVOA_N

ClientSampleId :

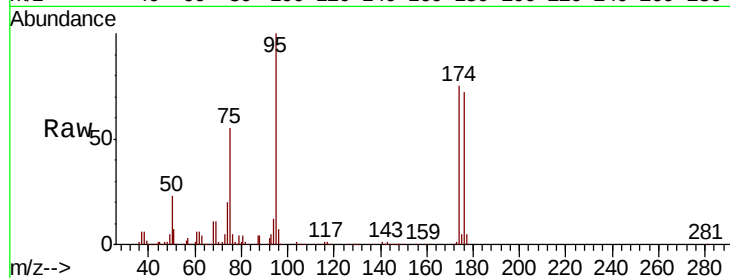
PAR-11-C2-(0)

Tgt Ion: 75 Resp: 170411

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

120000

100000

80000

60000

40000

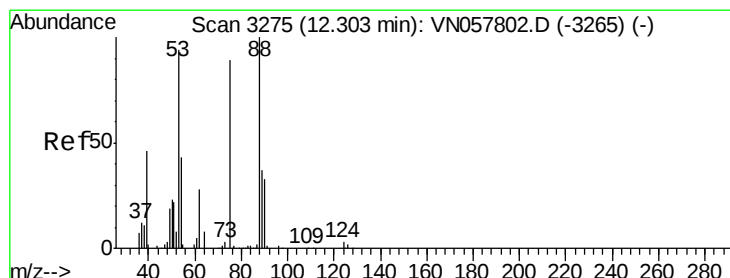
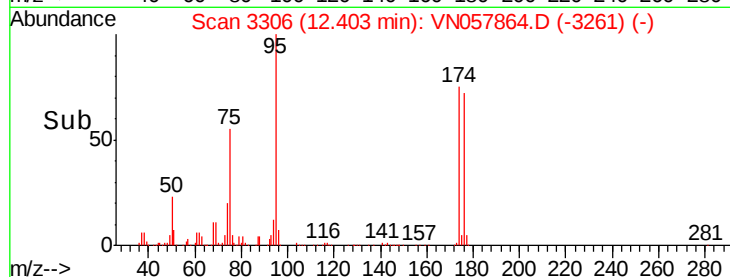
20000

0

12.40

12.50

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 106.005 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN057864.D

Acq: 10 Sep 2019 15:55

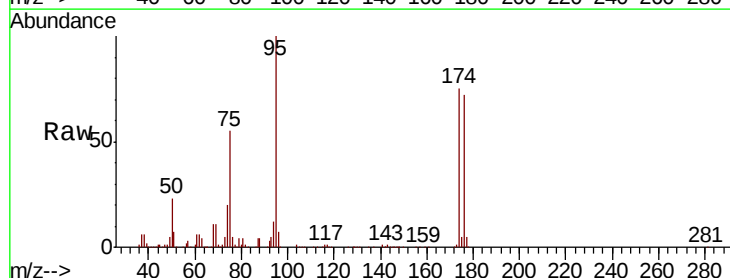
Tgt Ion: 75 Resp: 170411

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

100000

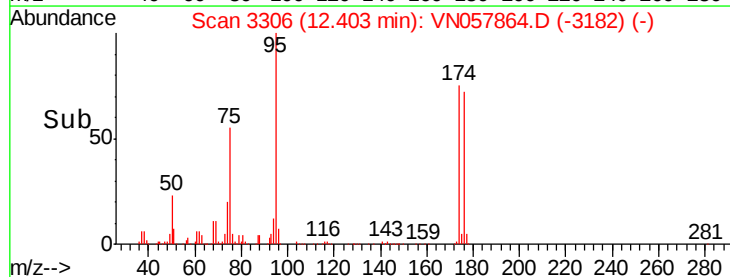
50000

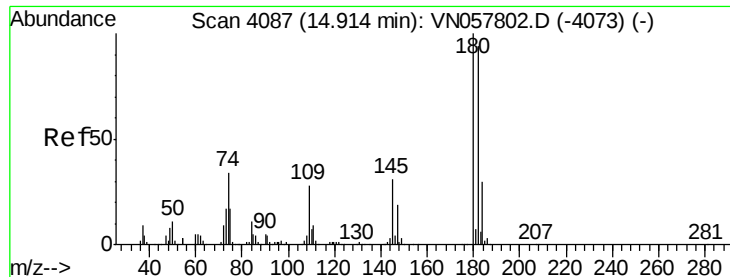
0

12.40

12.50

Time-->

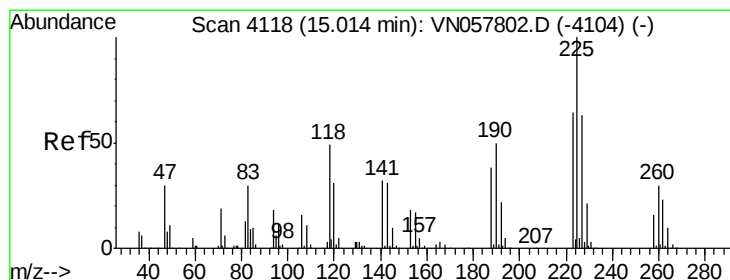
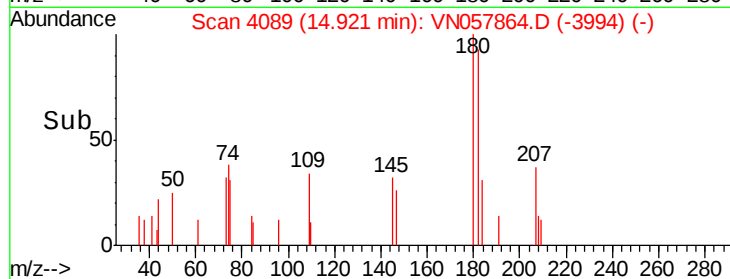
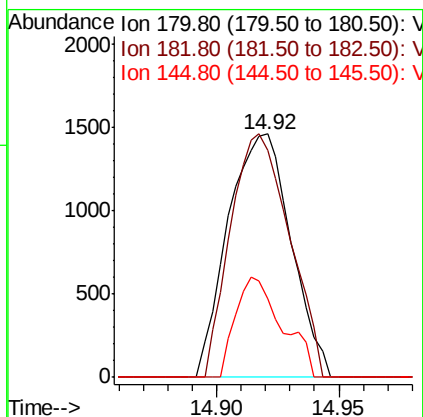
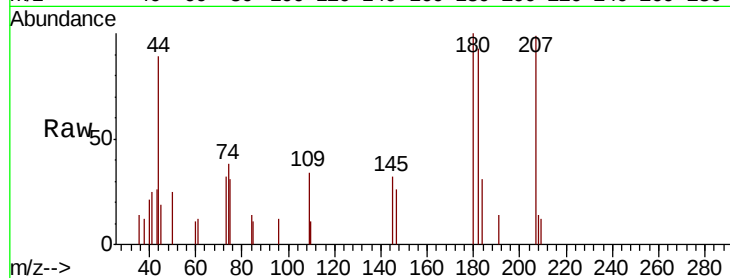




#93
 1,2,4-Trichlorobenzene
 Concen: 0.452 ug/l
 RT: 14.92 min Scan# 4089
 Delta R.T. 0.01 min
 Lab File: VN057864.D
 Acq: 10 Sep 2019 15:55

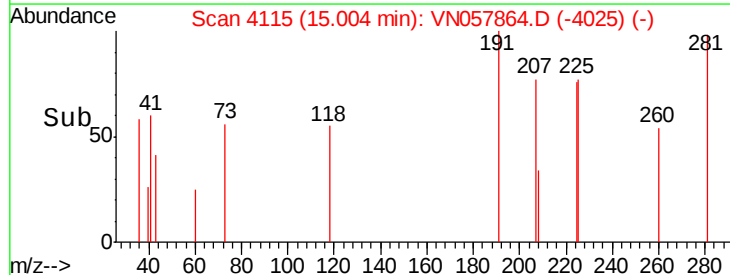
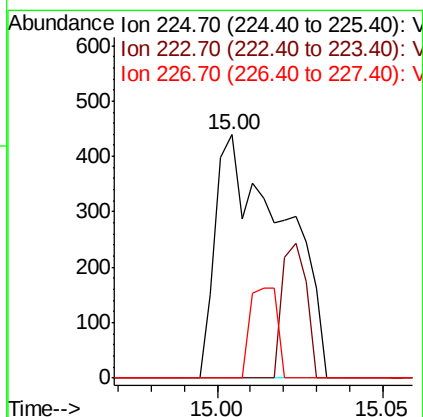
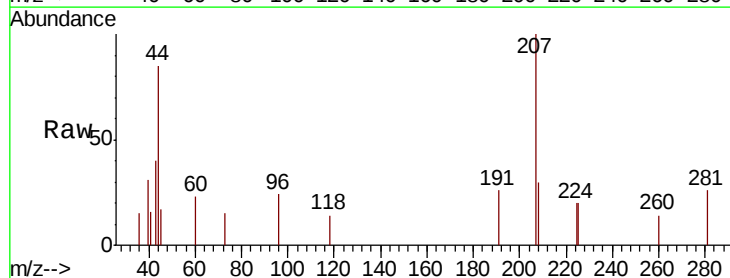
Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-11-C2-(0)

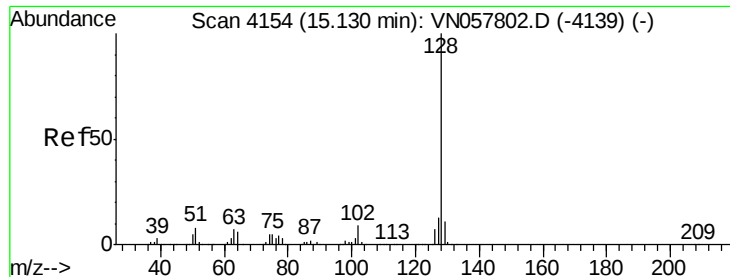
Tgt Ion:180 Resp: 2619
 Ion Ratio Lower Upper
 180 100
 182 93.4 46.9 140.8
 145 30.3 14.9 44.7



#94
 Hexachlorobutadiene
 Concen: 0.252 ug/l
 RT: 15.00 min Scan# 4115
 Delta R.T. -0.01 min
 Lab File: VN057864.D
 Acq: 10 Sep 2019 15:55

Tgt Ion:225 Resp: 620
 Ion Ratio Lower Upper
 225 100
 223 19.8 32.4 97.2#
 227 14.8 31.8 95.4#

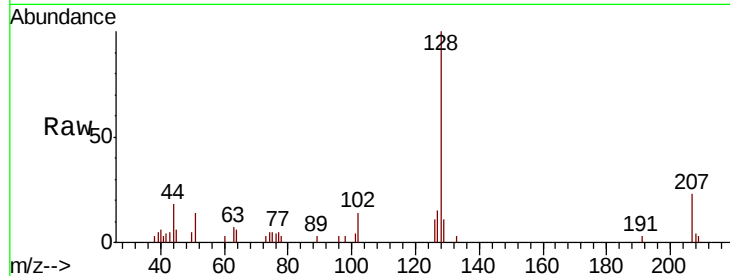




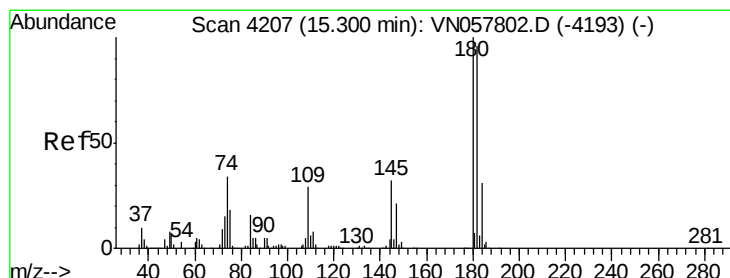
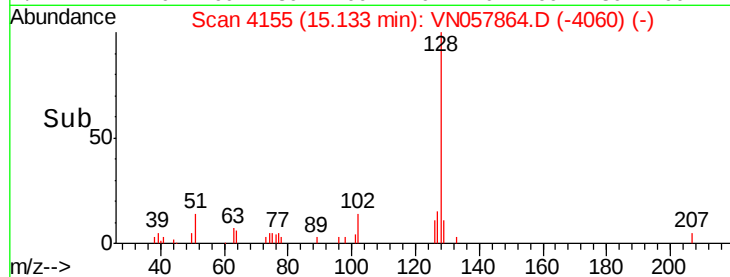
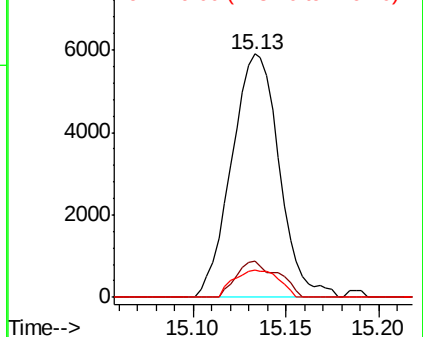
#95
Naphthalene
Concen: Below Cal
RT: 15.13 min Scan# 4155
Delta R.T. 0.00 min
Lab File: VN057864.D
Acq: 10 Sep 2019 15:55

Instrument :
MSVOA_N
ClientSampleId :
PAR-11-C2-(0)

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.3	15.5
129	10.6	8.6	12.8

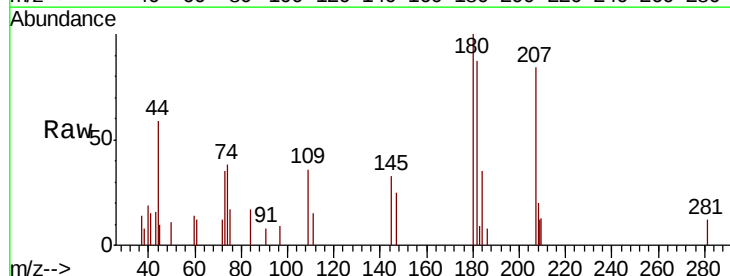


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 1.721 ug/l
RT: 15.30 min Scan# 4207
Delta R.T. 0.00 min
Lab File: VN057864.D
Acq: 10 Sep 2019 15:55

Tgt Ion	Ratio	Lower	Upper
180	100		
182	83.3	48.3	144.8
145	24.7	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

