

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090619\
 Data File : VN057722.D
 Acq On : 6 Sep 2019 18:59
 Operator : JC/SP
 Sample : K4579-34
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-12-C1-(0)

Quant Time: Sep 06 23:26:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N090619W.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 06 03:46:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	197371	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	330103	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	301178	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	153939	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	253244	52.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.48%	
35) Dibromofluoromethane	7.57	113	149277	49.65	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.30%	
50) Toluene-d8	10.08	98	584199	52.52	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.04%	
62) 4-Bromofluorobenzene	12.40	95	213578	46.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.46%	

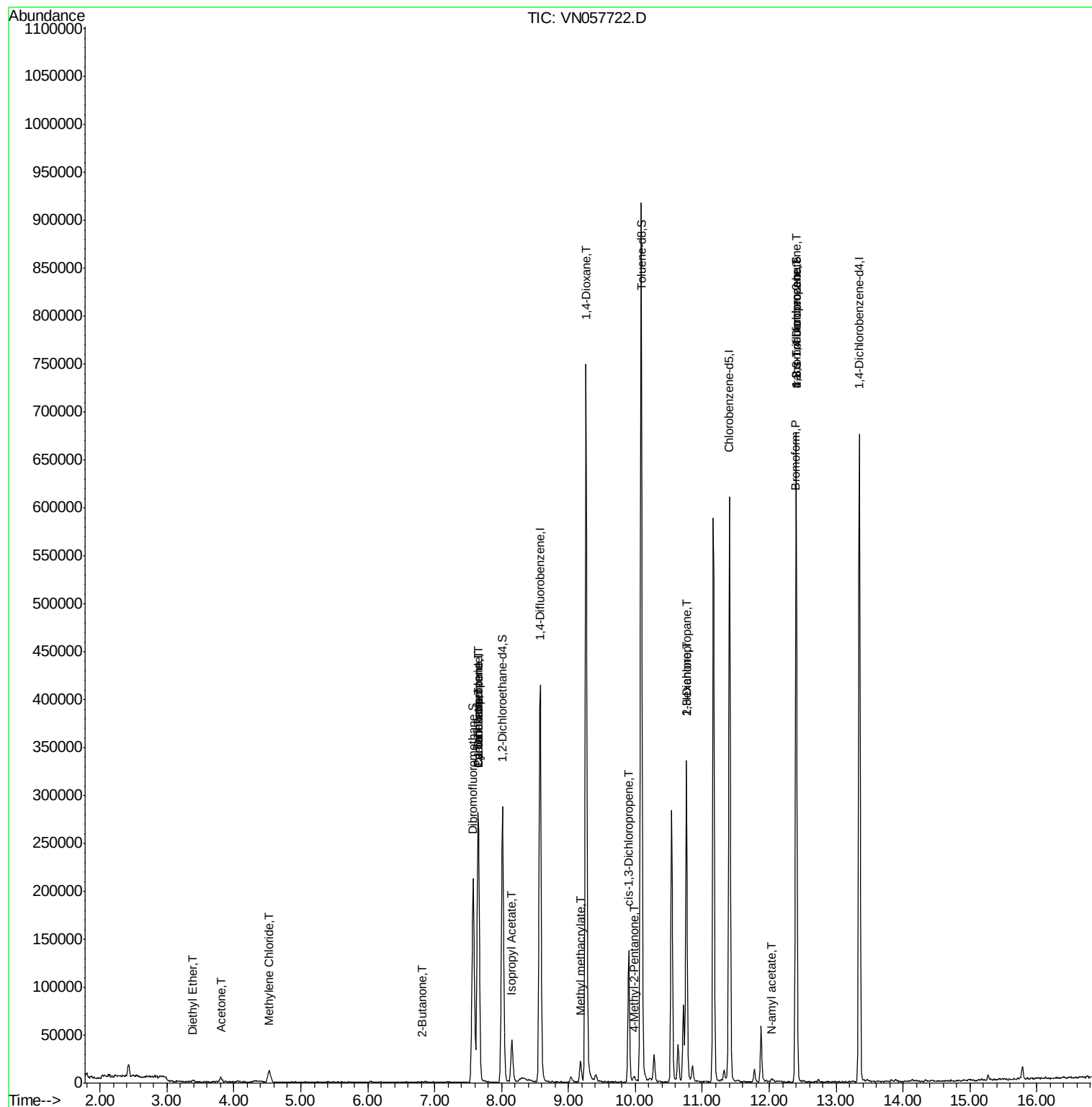
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1532	Below Cal		93
8) Diethyl Ether	3.39	74	507	0.291	ug/l #	20
16) Acetone	3.81	43	8372	5.666	ug/l	97
20) Methylene Chloride	4.52	84	7468	2.338	ug/l	91
25) 2-Butanone	6.83	43	615	0.291	ug/l #	55
31) Cyclohexane	7.65	56	6814	1.264	ug/l #	57
36) 1,1-Dichloropropene	7.65	75	20796	4.735	ug/l #	53
38) Carbon Tetrachloride	7.65	117	22009	5.234	ug/l #	16
43) Isopropyl Acetate	8.15	43	52777	6.307	ug/l	98
48) Methyl methacrylate	9.17	41	3675	0.854	ug/l #	16
49) 1,4-Dioxane	9.27	88	29	0.579	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	5101	1.098	ug/l	89
54) cis-1,3-Dichloropropene	9.90	75	20345	3.963	ug/l #	68
57) 1,3-Dichloropropane	10.76	76	3395	0.624	ug/l #	43
59) 2-Hexanone	10.76	43	54333	16.579	ug/l #	59
71) Bromoform	12.39	173	141	3.306	ug/l #	28
74) N-amyl acetate	12.03	43	1671	0.246	ug/l #	55
76) 1,2,3-Trichloropropane	12.40	75	128636	36.389	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	128636	113.170	ug/l #	1

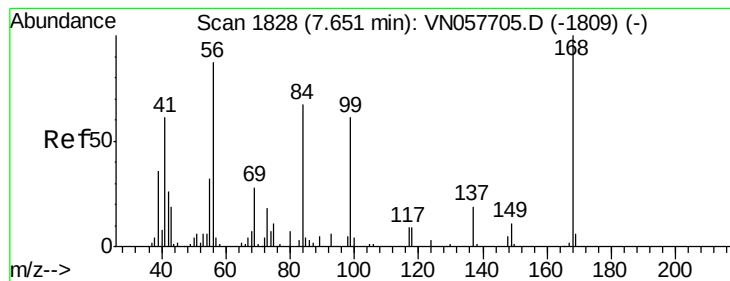
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN057722.D

Acq: 6 Sep 2019 18:59

Instrument :

MSVOA_N

ClientSampleId :

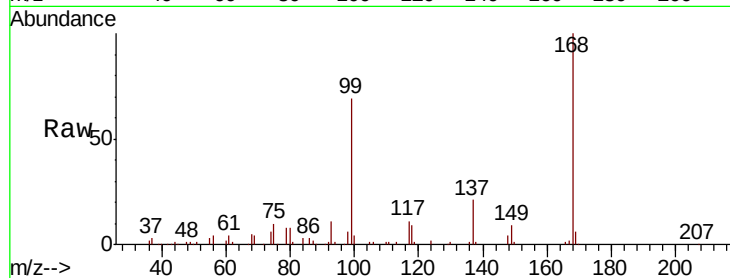
PAR-12-C1-(0)

Tgt Ion:168 Resp: 197371

Ion Ratio Lower Upper

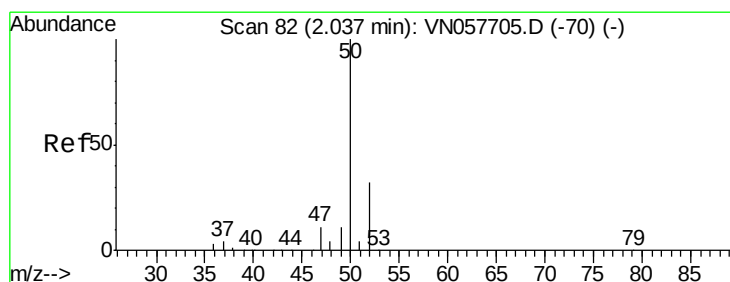
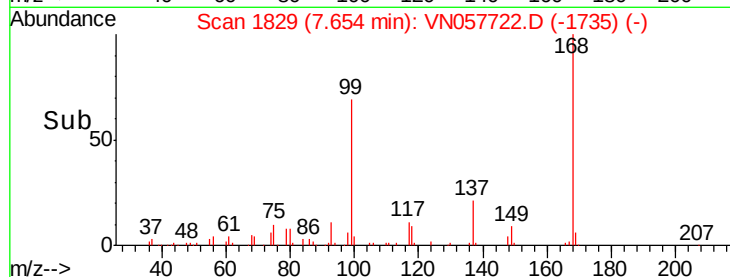
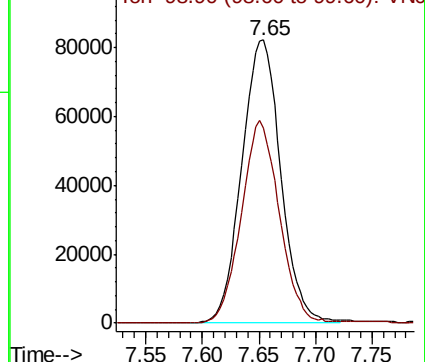
168 100

99 69.1 57.4 86.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: Below Cal

RT: 2.04 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN057722.D

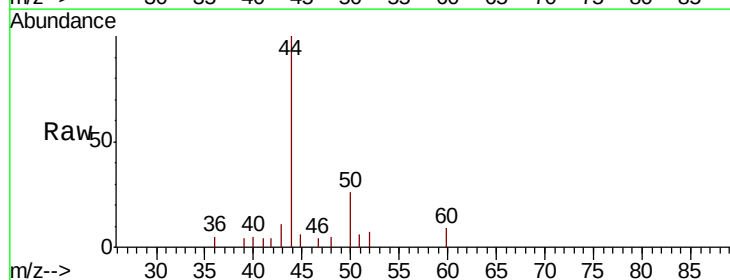
Acq: 6 Sep 2019 18:59

Tgt Ion: 50 Resp: 1532

Ion Ratio Lower Upper

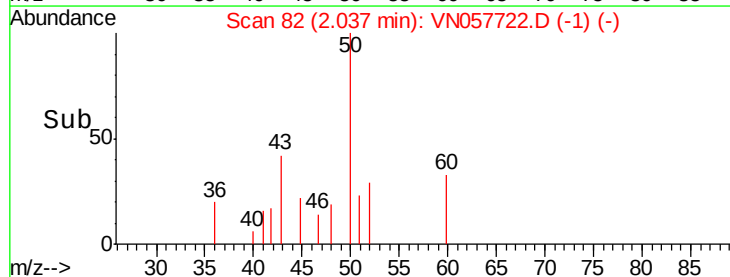
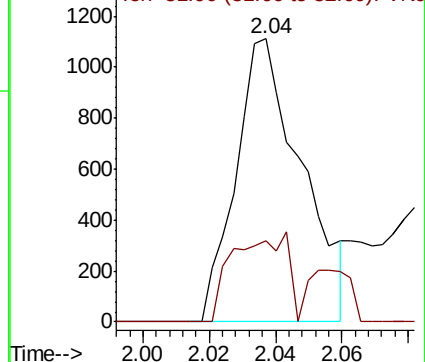
50 100

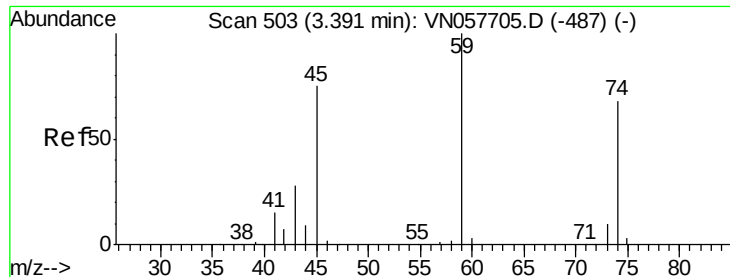
52 28.8 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#8

Diethyl Ether

Concen: 0.291 ug/l

RT: 3.39 min Scan# 503

Delta R.T. -0.00 min

Lab File: VN057722.D

Acq: 6 Sep 2019 18:59

Instrument :

MSVOA_N

ClientSampleId :

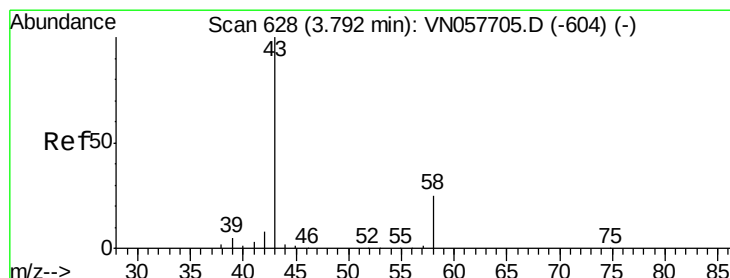
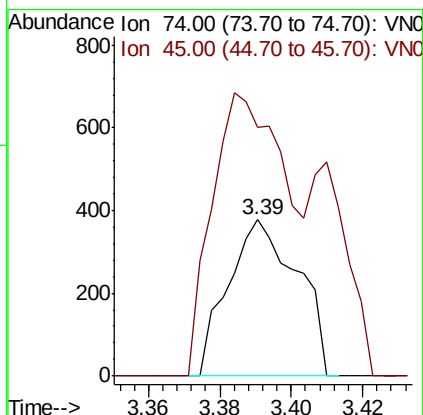
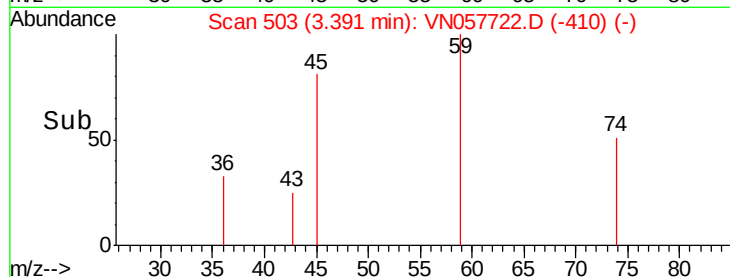
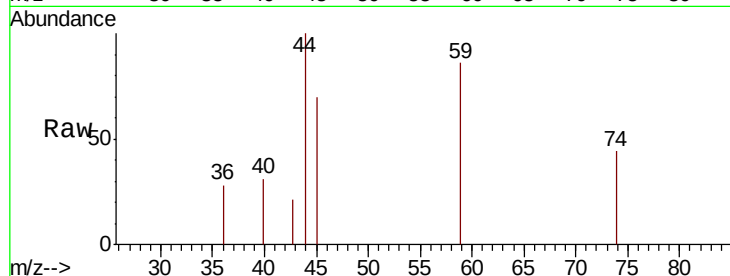
PAR-12-C1-(0)

Tgt Ion: 74 Resp: 507

Ion Ratio Lower Upper

74 100

45 195.7 55.4 166.0#



#16

Acetone

Concen: 5.666 ug/l

RT: 3.81 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN057722.D

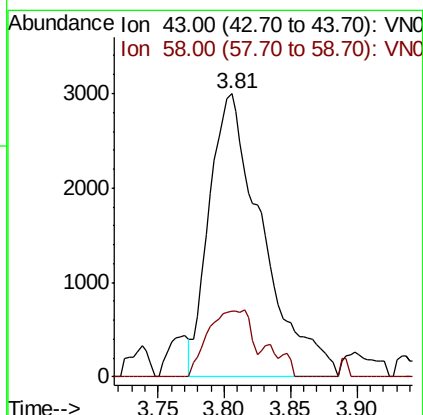
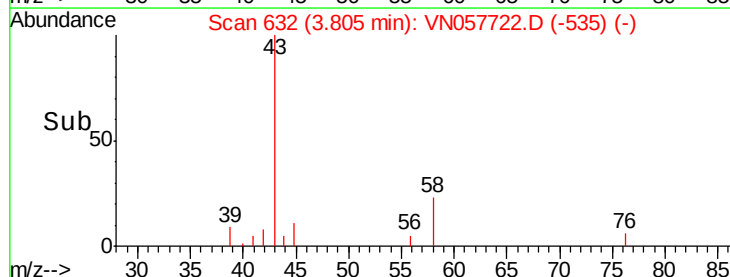
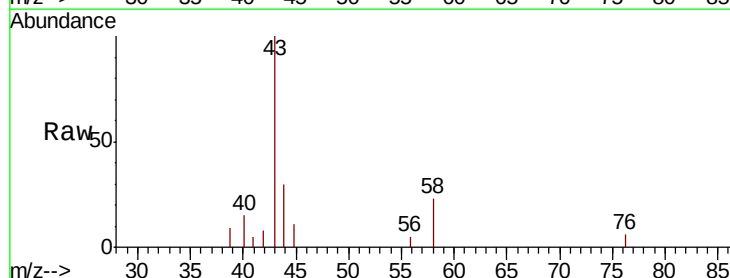
Acq: 6 Sep 2019 18:59

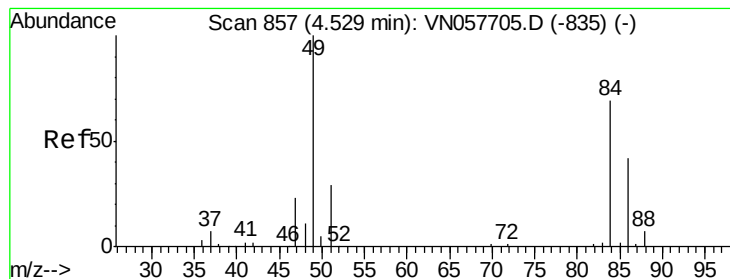
Tgt Ion: 43 Resp: 8372

Ion Ratio Lower Upper

43 100

58 23.4 19.8 29.8





#20

Methylene Chloride

Concen: 2.338 ug/l

RT: 4.52 min Scan# 855

Delta R.T. -0.01 min

Lab File: VN057722.D

Acq: 6 Sep 2019 18:59

Instrument :

MSVOA_N

ClientSampled :

PAR-12-C1-(0)

Tgt Ion: 84 Resp: 7468

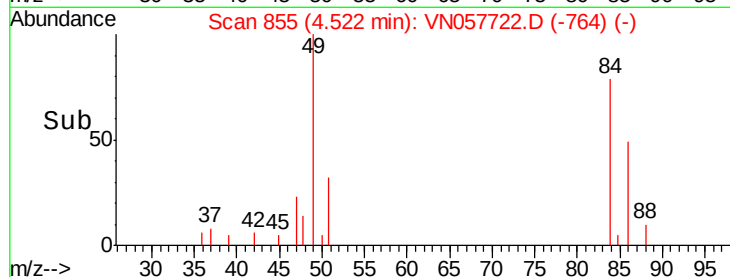
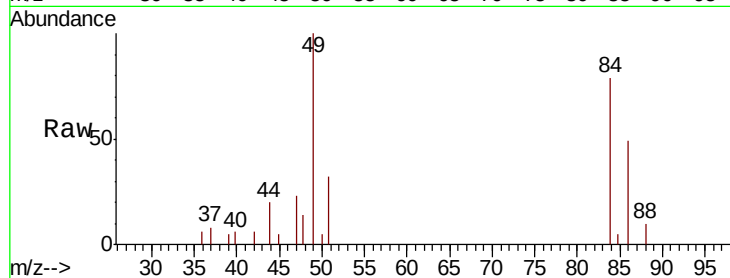
Ion Ratio Lower Upper

84 100

49 127.1 115.0 172.6

51 40.2 33.8 50.8

86 62.6 48.2 72.2

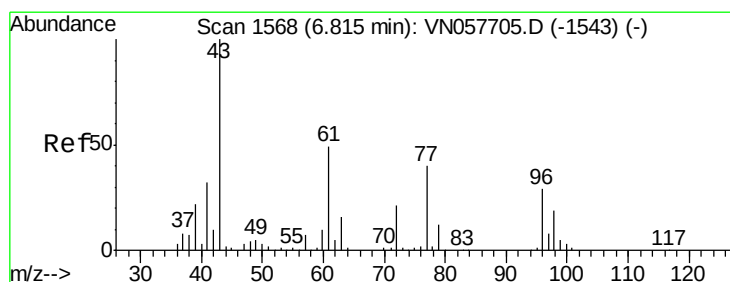
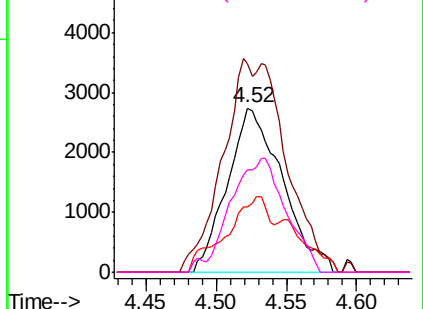


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 0.291 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. 0.01 min

Lab File: VN057722.D

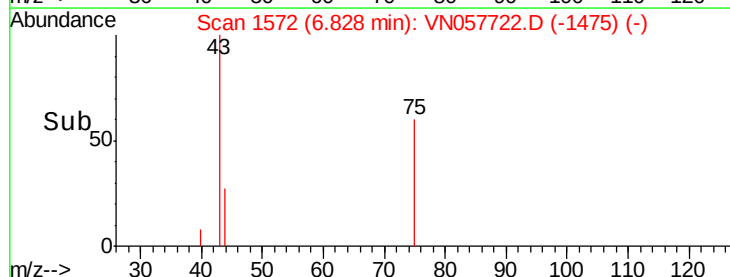
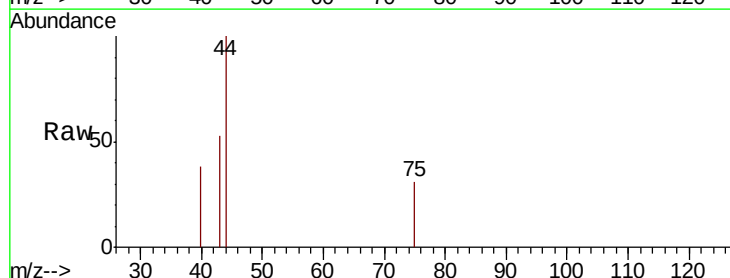
Acq: 6 Sep 2019 18:59

Tgt Ion: 43 Resp: 615

Ion Ratio Lower Upper

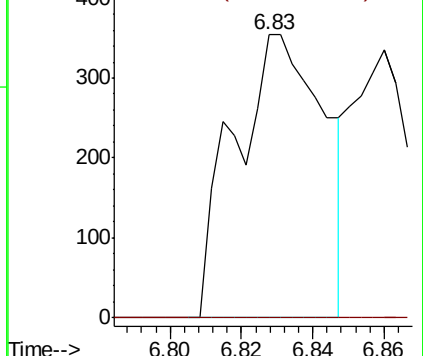
43 100

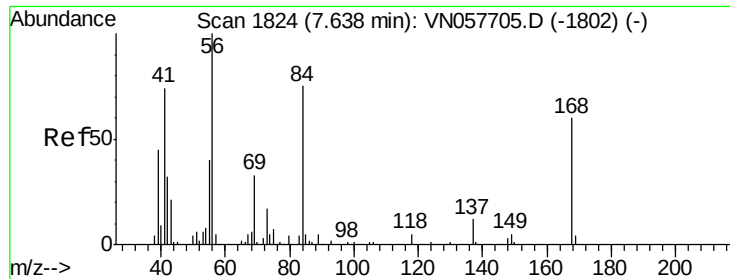
72 0.0 17.0 25.6#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0





#31

Cyclohexane

Concen: 1.264 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.02 min

Lab File: VN057722.D

Acq: 6 Sep 2019 18:59

Instrument :

MSVOA_N

ClientSampleId :

PAR-12-C1-(0)

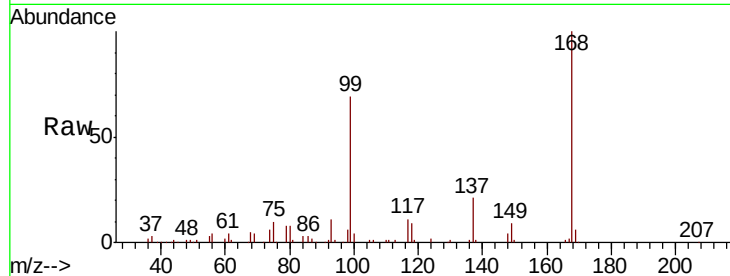
Tgt Ion: 56 Resp: 6814

Ion Ratio Lower Upper

56 100

69 110.7 26.2 39.2#

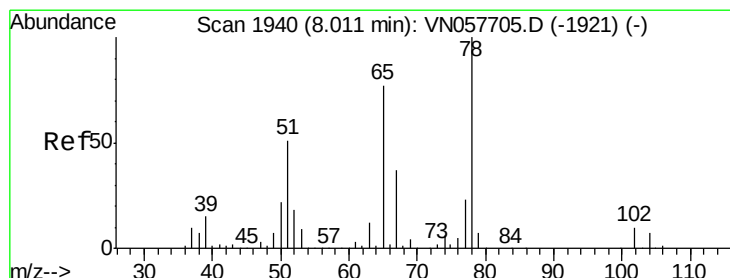
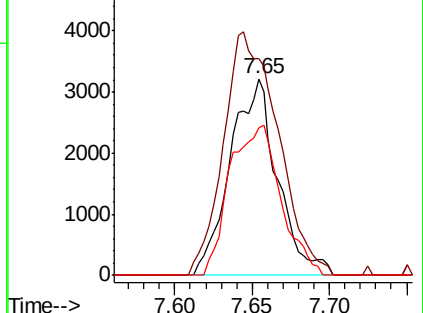
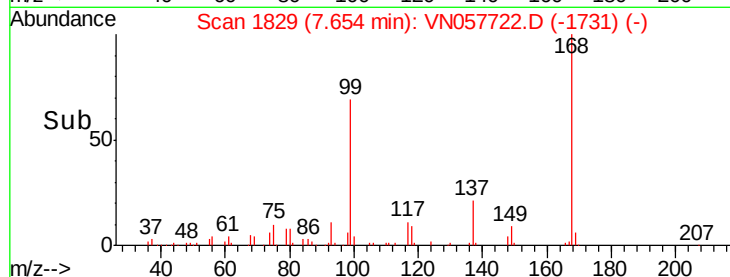
84 75.4 59.8 89.8



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: 52.743 ug/l

RT: 8.01 min Scan# 1941

Delta R.T. 0.00 min

Lab File: VN057722.D

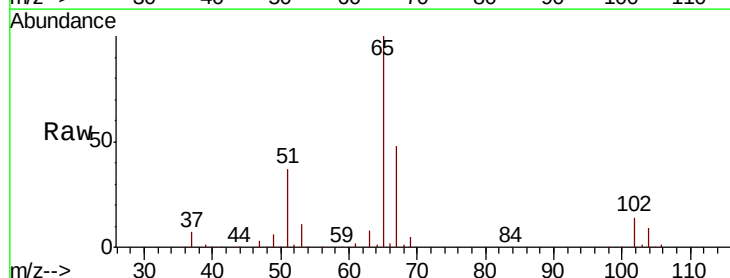
Acq: 6 Sep 2019 18:59

Tgt Ion: 65 Resp: 253244

Ion Ratio Lower Upper

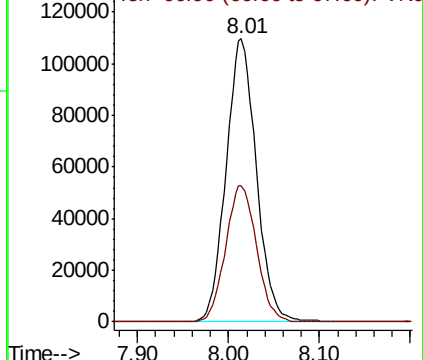
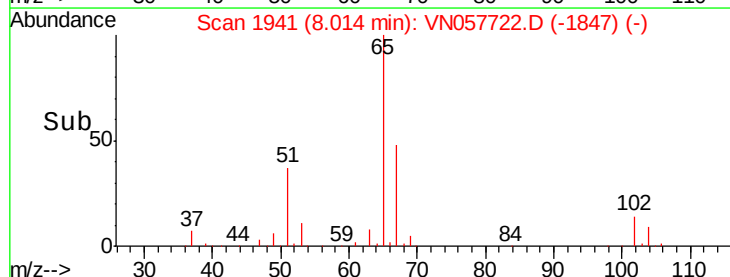
65 100

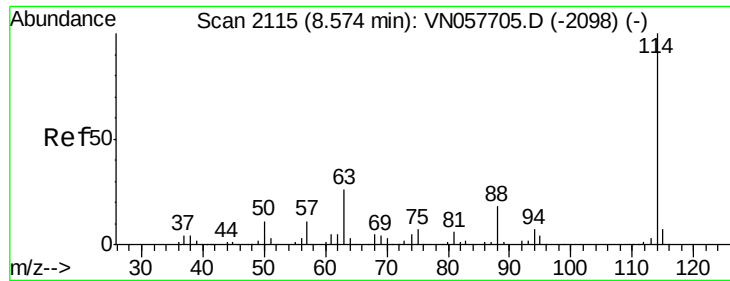
67 49.2 0.0 98.2



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0

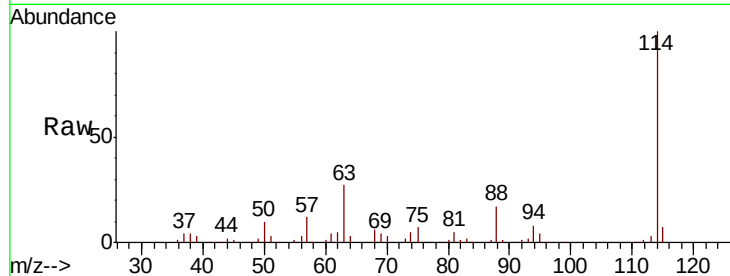




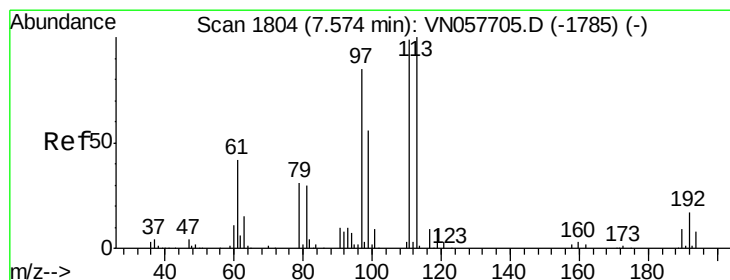
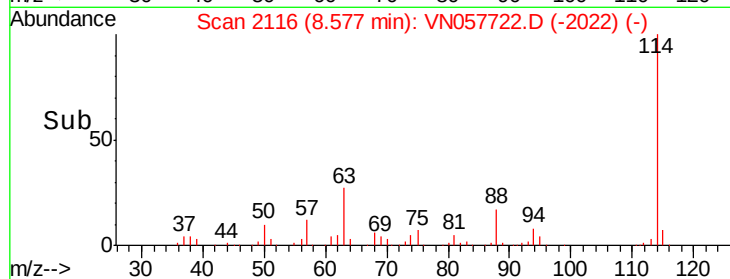
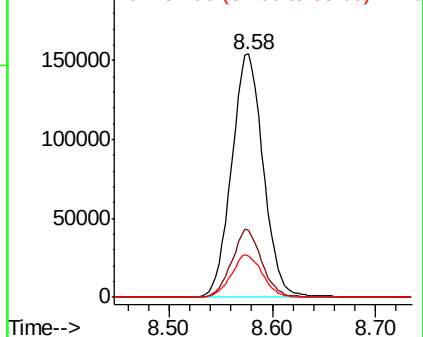
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2116
Delta R.T. 0.00 min
Lab File: VN057722.D
Acq: 6 Sep 2019 18:59

Instrument :
MSVOA_N
ClientSampleId :
PAR-12-C1-(0)

Tgt Ion:114 Resp: 330103
Ion Ratio Lower Upper
114 100
63 27.3 0.0 52.4
88 16.8 0.0 35.4

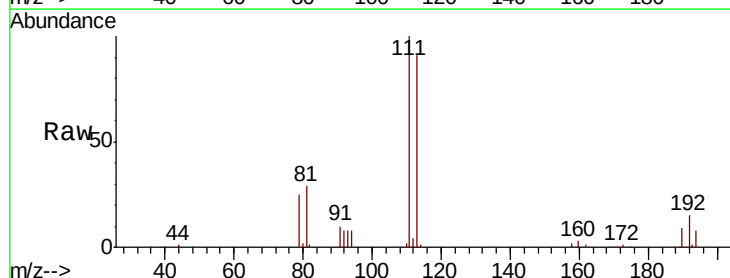


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

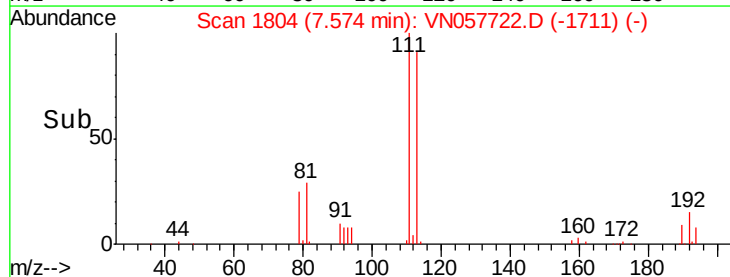
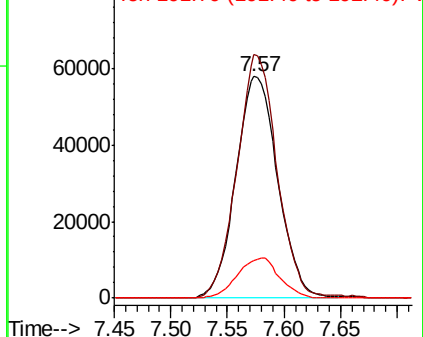


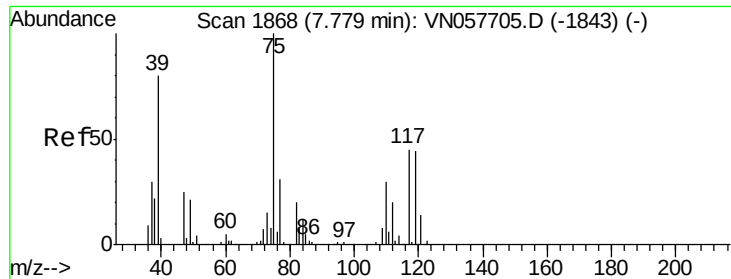
#35
Dibromofluoromethane
Concen: 49.647 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN057722.D
Acq: 6 Sep 2019 18:59

Tgt Ion:113 Resp: 149277
Ion Ratio Lower Upper
113 100
111 105.5 82.7 124.1
192 18.2 13.8 20.6



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

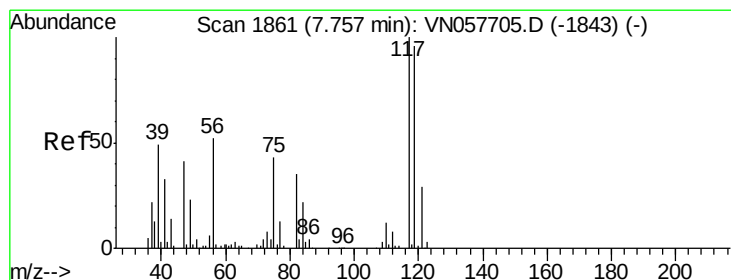
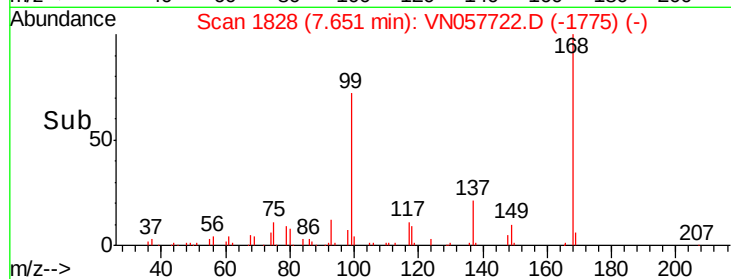
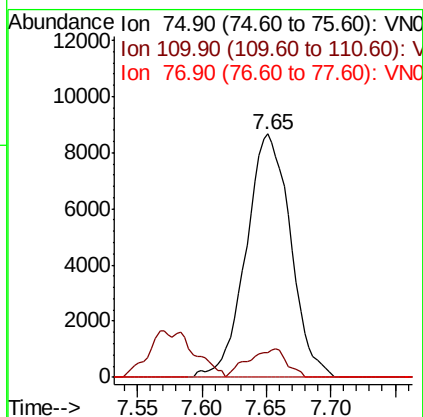
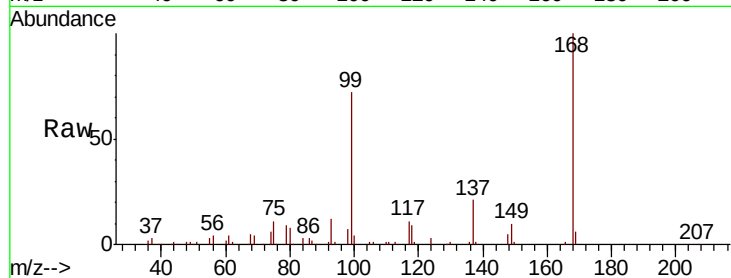




#36
 1,1-Dichloropropene
 Concen: 4.735 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.13 min
 Lab File: VN057722.D
 Acq: 6 Sep 2019 18:59

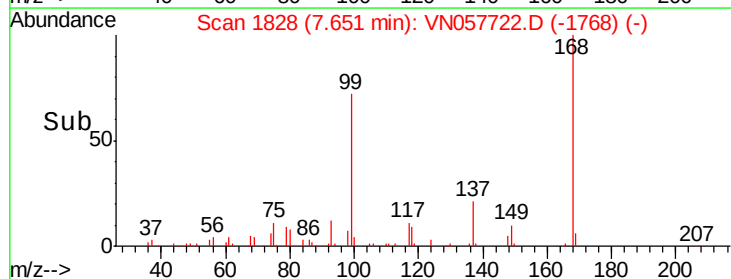
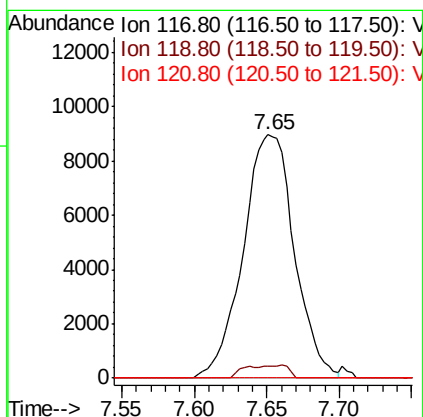
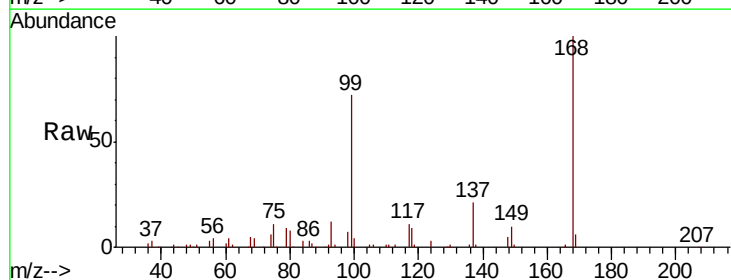
Instrument :
 MSVOA_N
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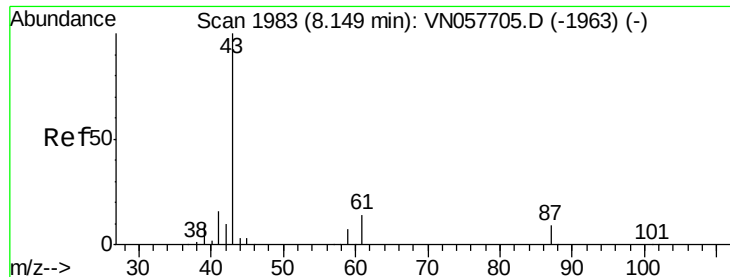
Tgt Ion: 75 Resp: 20796
 Ion Ratio Lower Upper
 75 100
 110 10.1 15.0 45.0#
 77 0.0 24.6 37.0#



#38
 Carbon Tetrachloride
 Concen: 5.234 ug/l
 RT: 7.65 min Scan# 1828
 Delta R.T. -0.11 min
 Lab File: VN057722.D
 Acq: 6 Sep 2019 18:59

Tgt Ion: 117 Resp: 22009
 Ion Ratio Lower Upper
 117 100
 119 5.0 76.1 114.1#
 121 0.0 23.4 35.2#

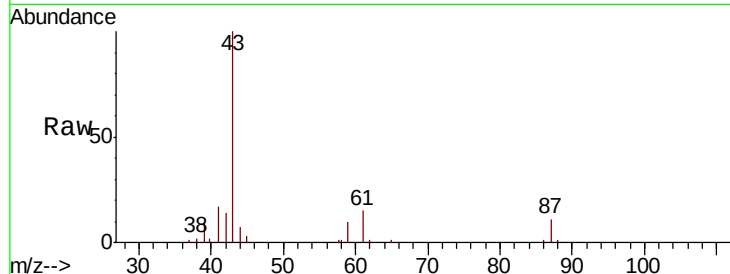




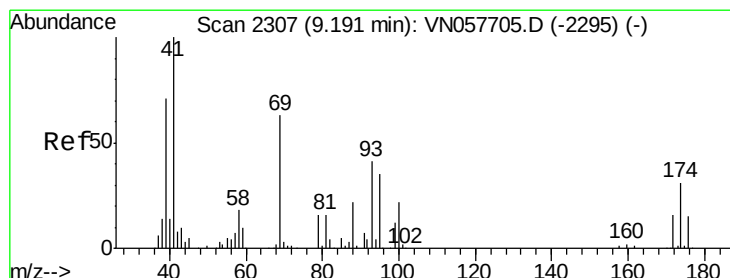
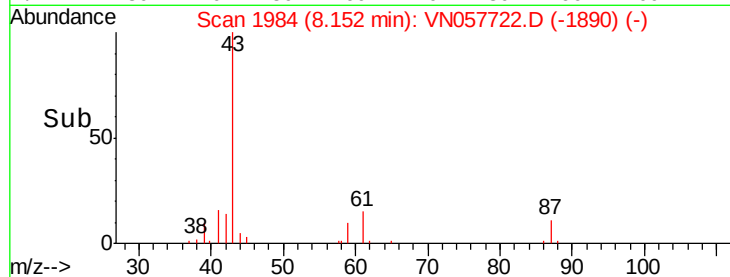
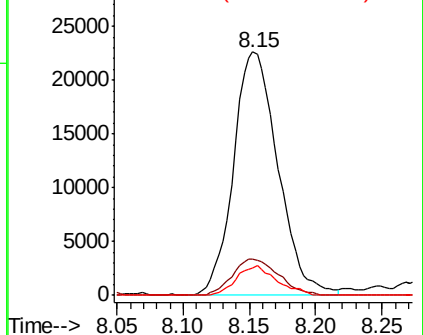
#43
Isopropyl Acetate
Concen: 6.307 ug/l
RT: 8.15 min Scan# 1984
Delta R.T. 0.00 min
Lab File: VN057722.D
Acq: 6 Sep 2019 18:59

Instrument :
MSVOA_N
ClientSampleId :
PAR-12-C1-(0)

Tgt Ion: 43 Resp: 52777
Ion Ratio Lower Upper
43 100
61 15.4 12.8 19.2
87 11.0 7.8 11.8

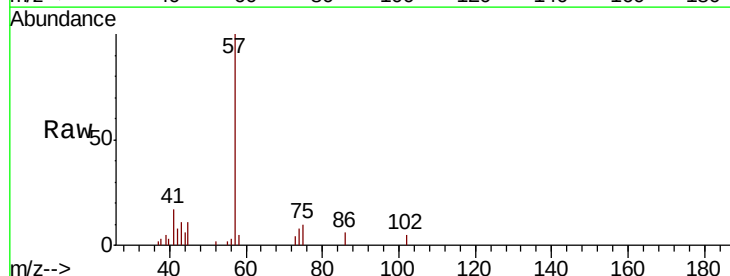


Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 61.00 (60.70 to 61.70): VNO
Ion 87.00 (86.70 to 87.70): VNO

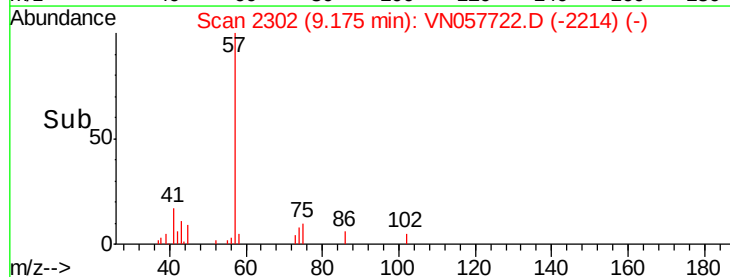
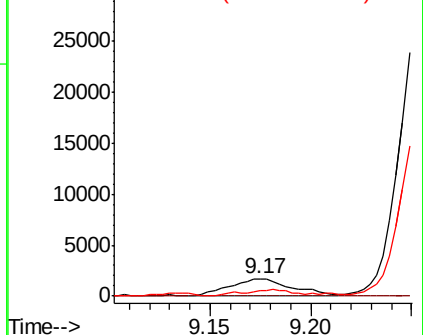


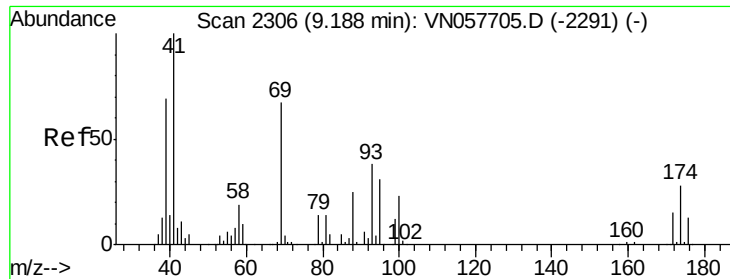
#48
Methyl methacrylate
Concen: 0.854 ug/l
RT: 9.17 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN057722.D
Acq: 6 Sep 2019 18:59

Tgt Ion: 41 Resp: 3675
Ion Ratio Lower Upper
41 100
69 0.0 51.2 76.8#
39 0.0 57.3 85.9#



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





#49

1,4-Dioxane

Concen: 0.579 ug/l

RT: 9.27 min Scan# 2332

Delta R.T. 0.08 min

Lab File: VN057722.D

Acq: 6 Sep 2019 18:59

Instrument :

MSVOA_N

ClientSampleId :

PAR-12-C1-(0)

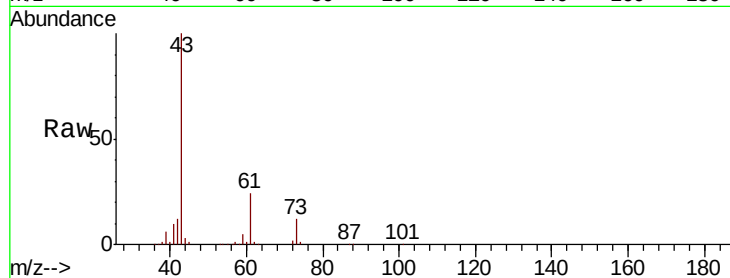
Tgt Ion: 88 Resp: 29

Ion Ratio Lower Upper

88 100

43 2661793.1 35.4 53.2#

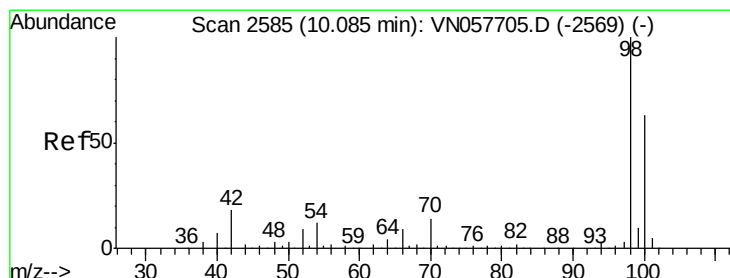
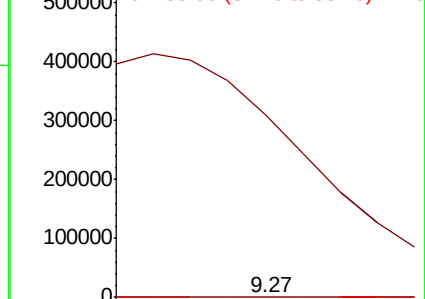
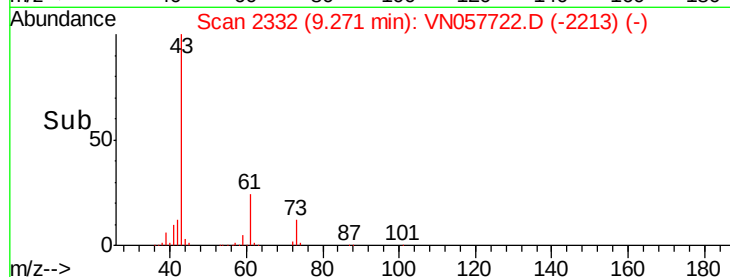
58 11472.4 61.5 92.3#



Abundance Ion 88.00 (87.70 to 88.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#50

Toluene-d8

Concen: 52.523 ug/l

RT: 10.08 min Scan# 2585

Delta R.T. 0.00 min

Lab File: VN057722.D

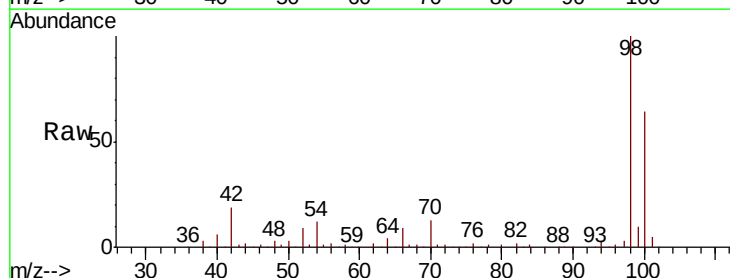
Acq: 6 Sep 2019 18:59

Tgt Ion: 98 Resp: 584199

Ion Ratio Lower Upper

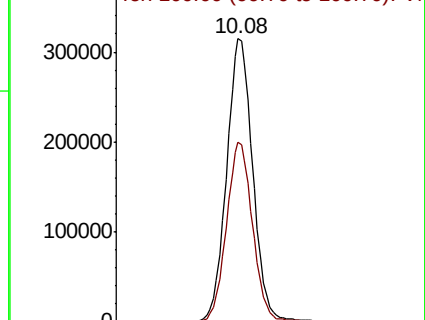
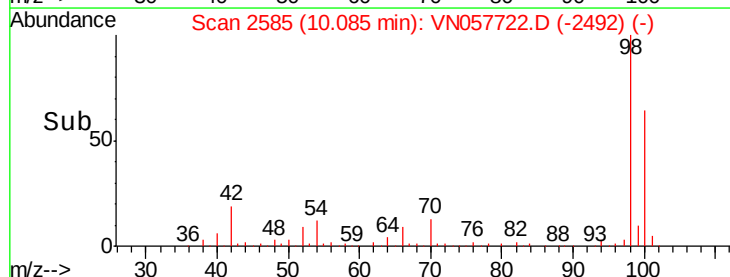
98 100

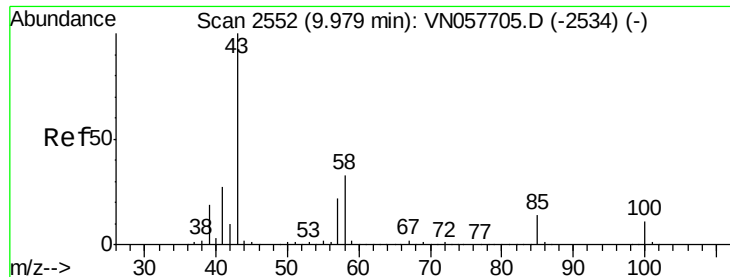
100 63.4 50.7 76.1



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: 1.098 ug/l

RT: 9.98 min Scan# 2551

Delta R.T. -0.00 min

Lab File: VN057722.D

Acq: 6 Sep 2019 18:59

Instrument :

MSVOA_N

ClientSampleId :

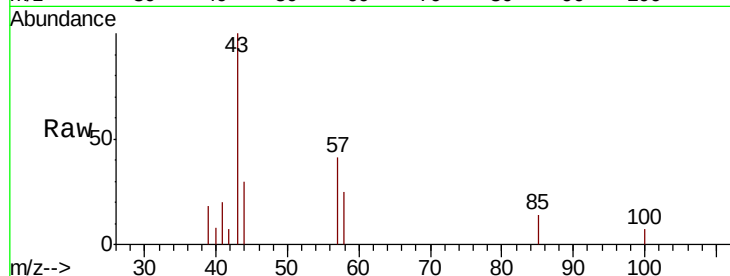
PAR-12-C1-(0)

Tgt Ion: 43 Resp: 5101

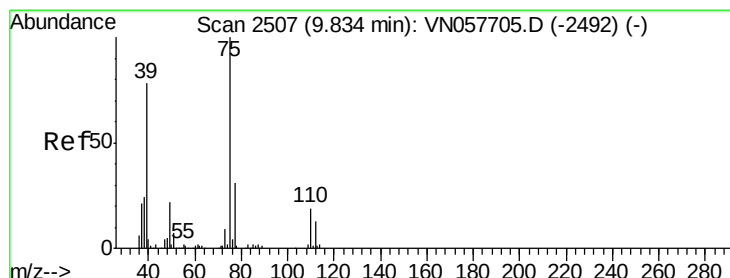
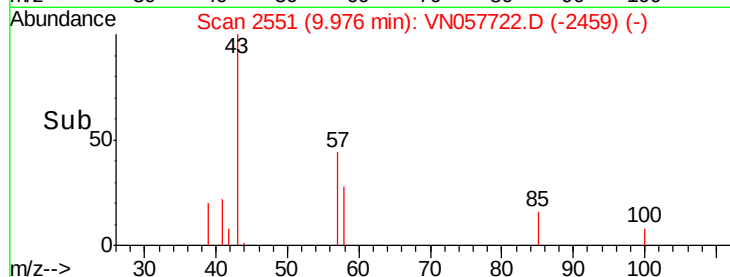
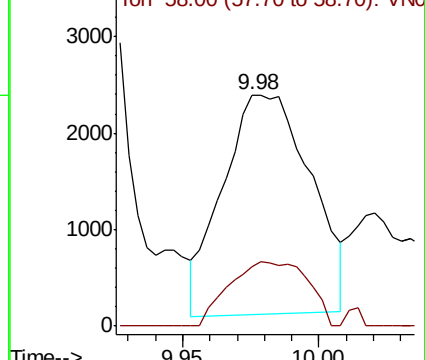
Ion Ratio Lower Upper

43 100

58 26.2 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN057722.D (-2459) (-)



#54

cis-1,3-Dichloropropene

Concen: 3.963 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN057722.D

Acq: 6 Sep 2019 18:59

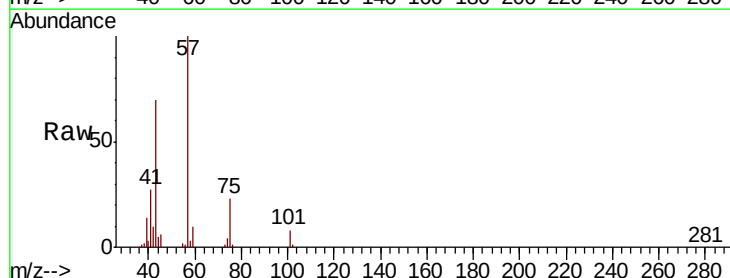
Tgt Ion: 75 Resp: 20345

Ion Ratio Lower Upper

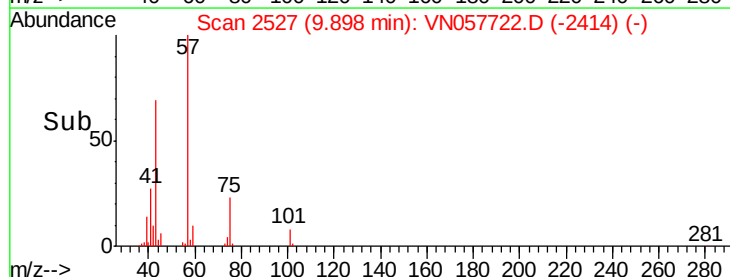
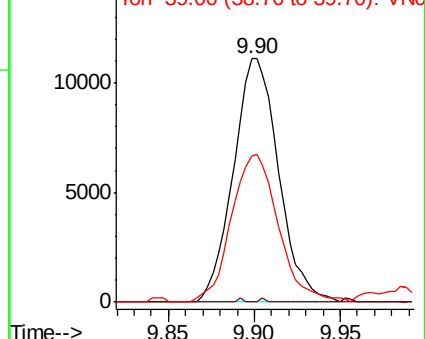
75 100

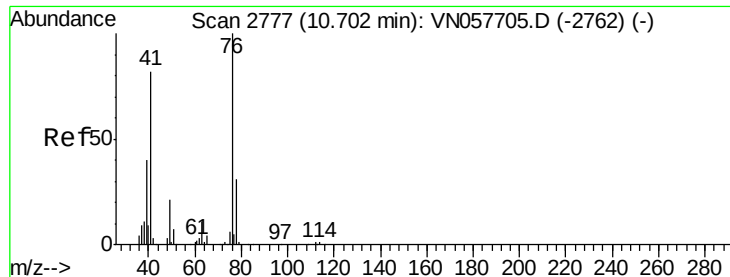
77 0.0 25.1 37.7#

39 58.3 62.4 93.6#



Abundance Ion 74.90 (74.60 to 75.60): VN057722.D (-2414) (-)





#57

1,3-Dichloropropane

Concen: 0.624 ug/l

RT: 10.76 min Scan# 2795

Delta R.T. 0.06 min

Lab File: VN057722.D

Acq: 6 Sep 2019 18:59

Instrument :

MSVOA_N

ClientSampleId :

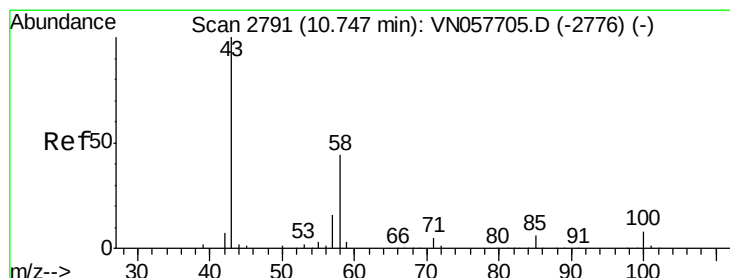
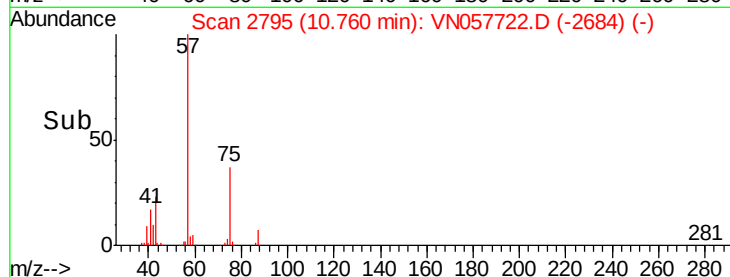
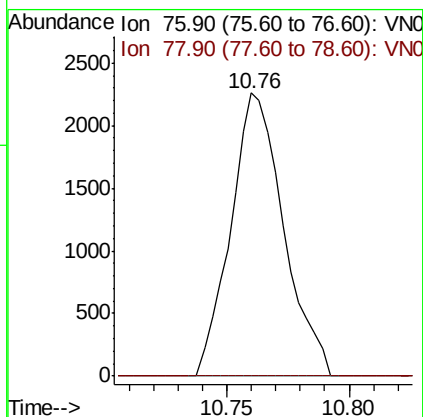
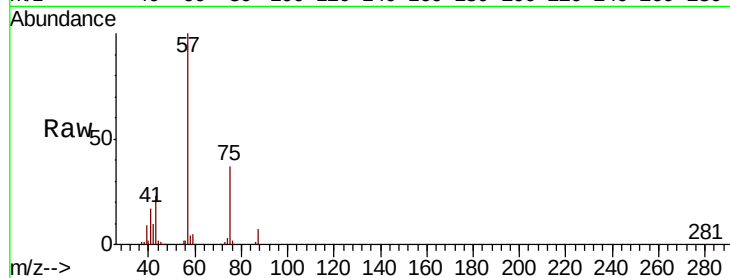
PAR-12-C1-(0)

Tgt Ion: 76 Resp: 3395

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#



#59

2-Hexanone

Concen: 16.579 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.02 min

Lab File: VN057722.D

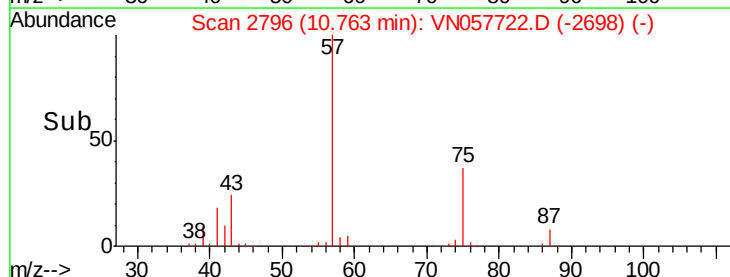
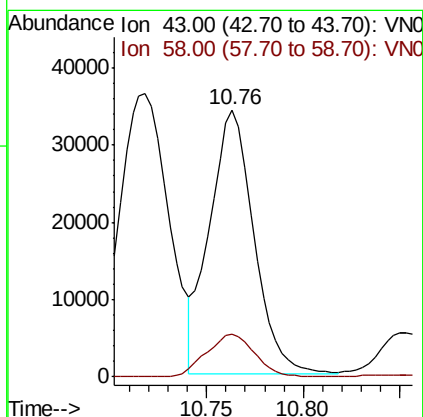
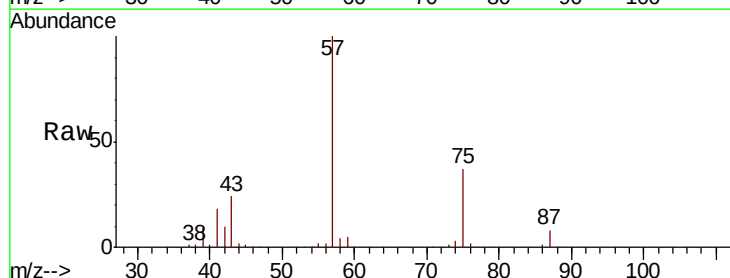
Acq: 6 Sep 2019 18:59

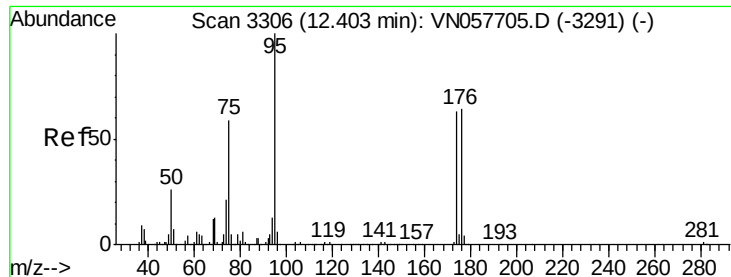
Tgt Ion: 43 Resp: 54333

Ion Ratio Lower Upper

43 100

58 17.4 22.1 66.5#





#62

4-Bromofluorobenzene

Concen: 46.231 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.00 min

Lab File: VN057722.D

Acq: 6 Sep 2019 18:59

Instrument :

MSVOA_N

ClientSampleId :

PAR-12-C1-(0)

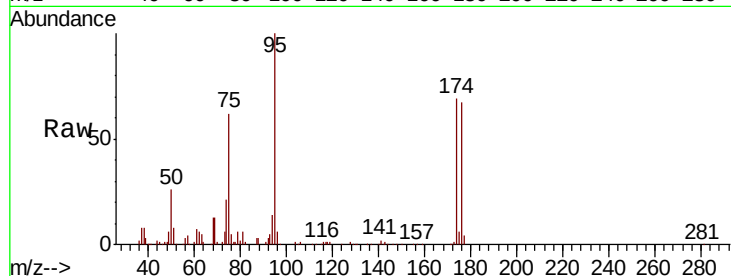
Tgt Ion: 95 Resp: 213578

Ion Ratio Lower Upper

95 100

174 69.0 0.0 128.0

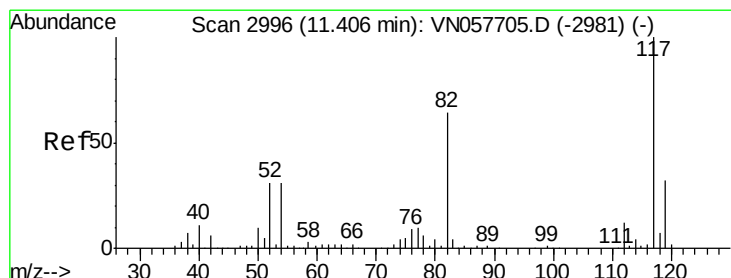
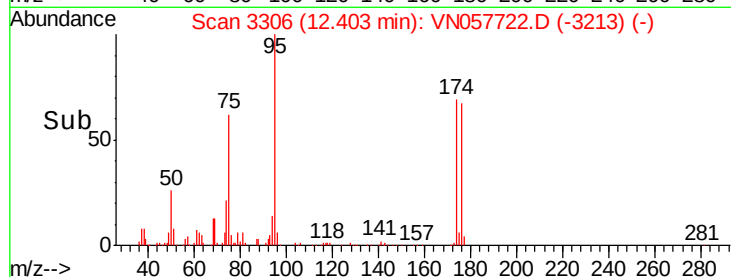
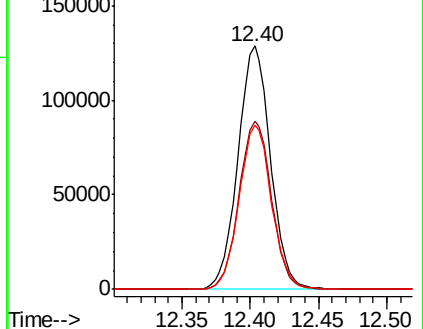
176 67.3 0.0 128.0



Abundance Ion 94.90 (94.60 to 95.60): VN057705.D (-3291) (-)

Ion 173.80 (173.50 to 174.50): VN057705.D (-3291) (-)

Ion 175.80 (175.50 to 176.50): VN057705.D (-3291) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057722.D

Acq: 6 Sep 2019 18:59

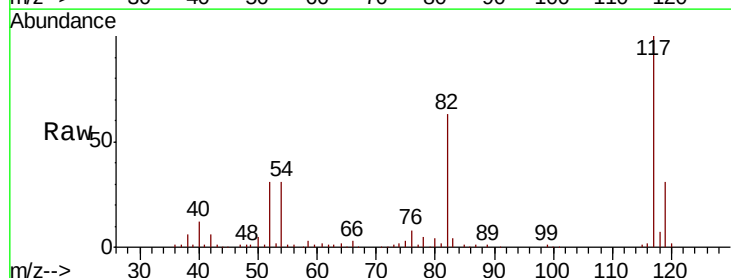
Tgt Ion: 117 Resp: 301178

Ion Ratio Lower Upper

117 100

82 62.5 51.4 77.0

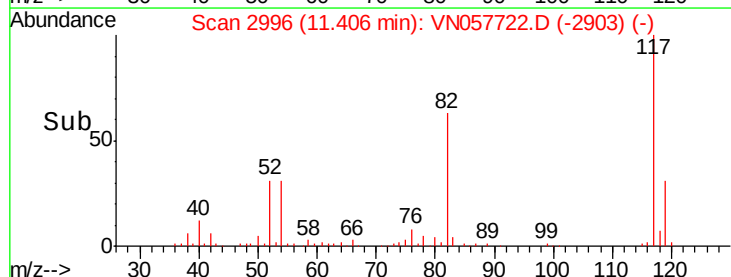
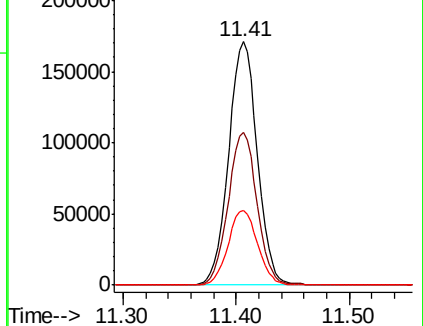
119 30.5 25.4 38.2

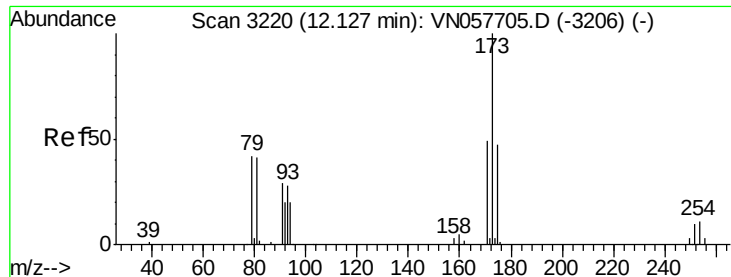


Abundance Ion 116.90 (116.60 to 117.60): VN057705.D (-2981) (-)

Ion 82.00 (81.70 to 82.70): VN057705.D (-2981) (-)

Ion 118.90 (118.60 to 119.60): VN057705.D (-2981) (-)





#71

Bromoform

Concen: 3.306 ug/l

RT: 12.39 min Scan# 3301

Delta R.T. 0.26 min

Lab File: VN057722.D

Acq: 6 Sep 2019 18:59

Instrument :

MSVOA_N

ClientSampleId :

PAR-12-C1-(0)

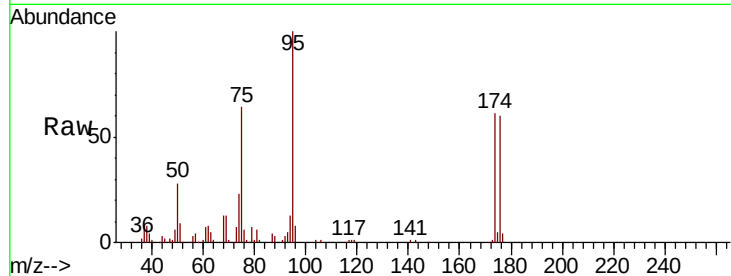
Tgt Ion:173 Resp: 141

Ion Ratio Lower Upper

173 100

175 0.0 24.6 73.8#

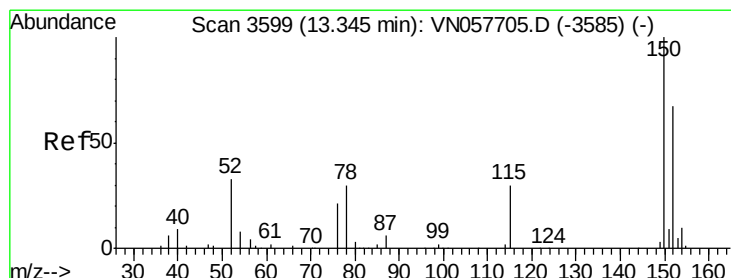
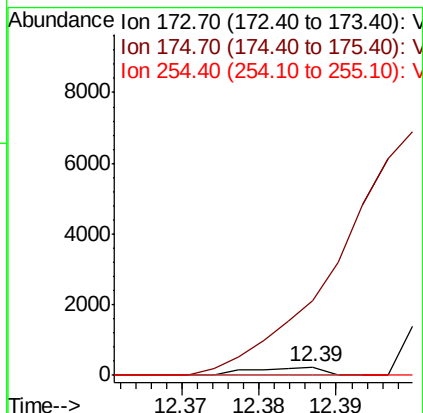
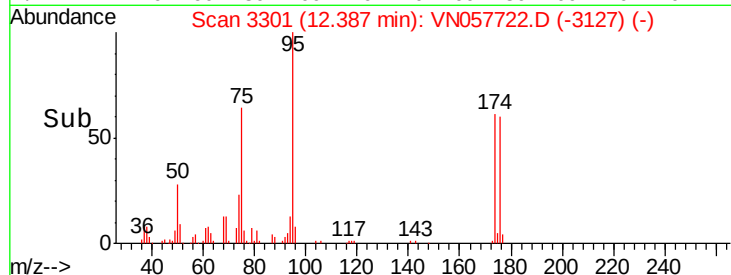
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN057722.D

Acq: 6 Sep 2019 18:59

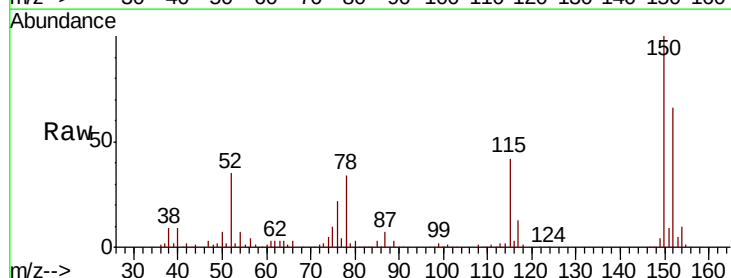
Tgt Ion:152 Resp: 153939

Ion Ratio Lower Upper

152 100

115 65.3 33.8 101.3

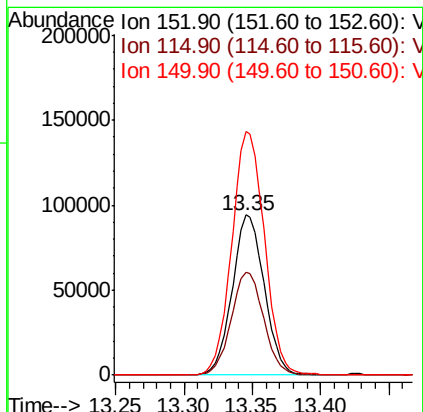
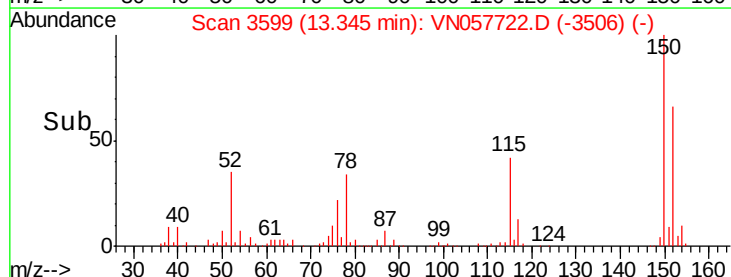
150 154.9 0.0 345.4

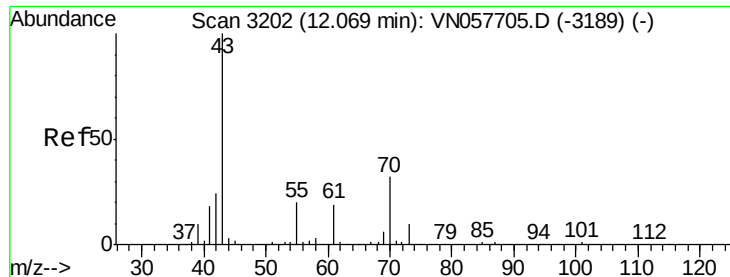


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.246 ug/l

RT: 12.03 min Scan# 3190

Delta R.T. -0.04 min

Lab File: VN057722.D

Acq: 6 Sep 2019 18:59

Instrument :

MSVOA_N

ClientSampleId :

PAR-12-C1-(0)

Tgt Ion: 43 Resp: 1671

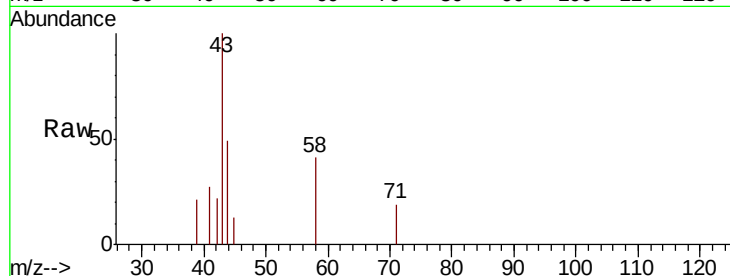
Ion Ratio Lower Upper

43 100

70 0.0 26.1 39.1#

55 8.3 16.3 24.5#

61 0.0 15.0 22.4#

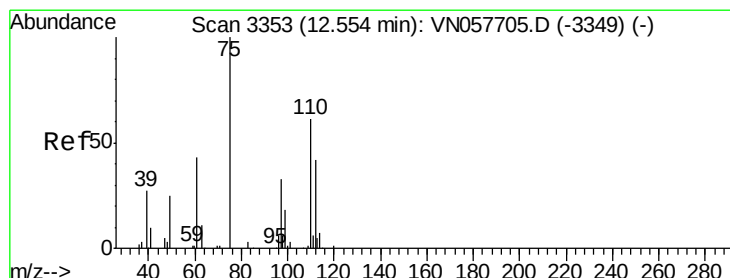
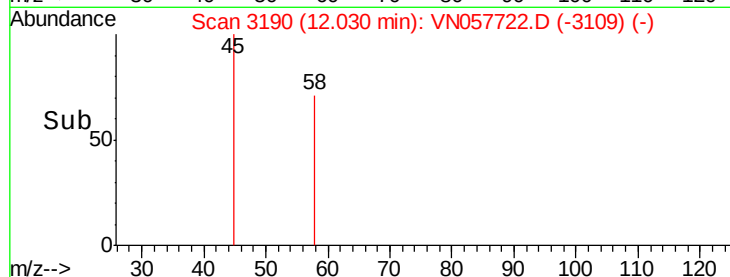
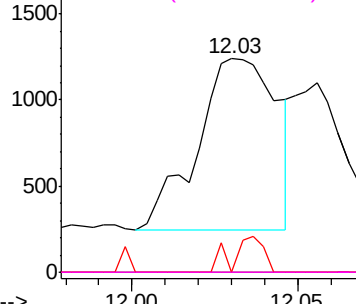


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 36.389 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057722.D

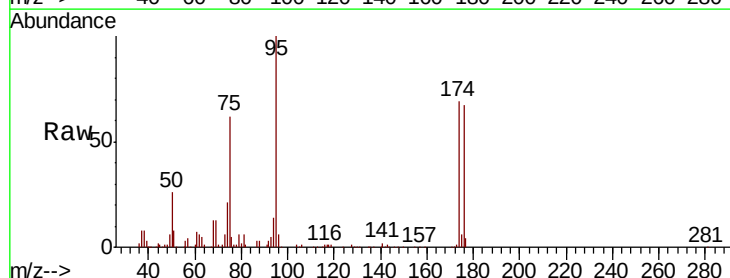
Acq: 6 Sep 2019 18:59

Tgt Ion: 75 Resp: 128636

Ion Ratio Lower Upper

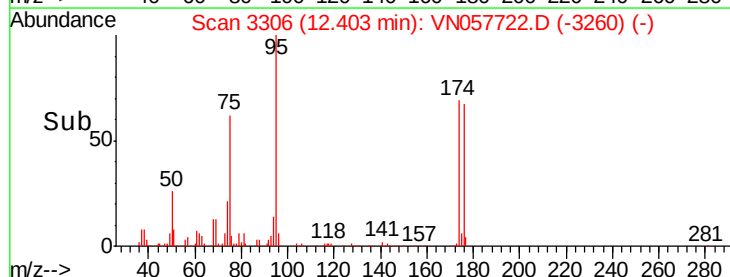
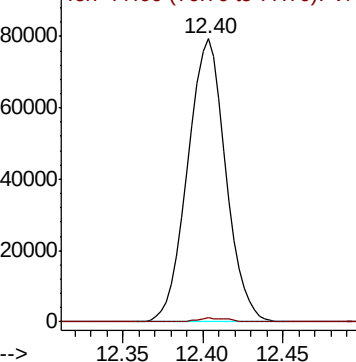
75 100

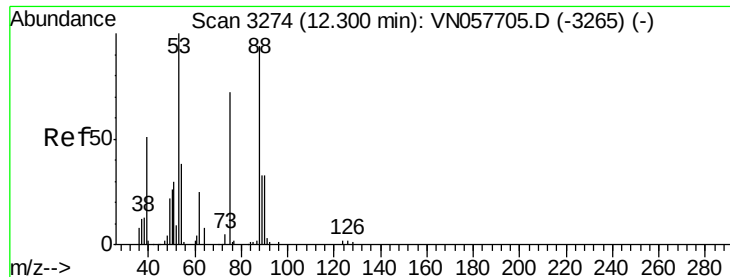
77 1.2 0.0 0.0#



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: 113.170 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN057722.D
 Acq: 6 Sep 2019 18:59

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-12-C1-(0)

Tgt Ion: 75 Resp: 128636
 Ion Ratio Lower Upper
 75 100
 53 0.0 107.0 160.6#
 89 0.0 36.5 54.7#

