

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090619\
 Data File : VN057721.D
 Acq On : 6 Sep 2019 18:37
 Operator : JC/SP
 Sample : K4579-33
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-12-B4-(3.5)

Quant Time: Sep 06 23:26:25 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	200446	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	333807	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	303833	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	152885	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	254654	52.22	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.44%	
35) Dibromofluoromethane	7.58	113	151383	49.79	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.58%	
50) Toluene-d8	10.09	98	579888	51.56	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.12%	
62) 4-Bromofluorobenzene	12.40	95	215184	46.06	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.12%	

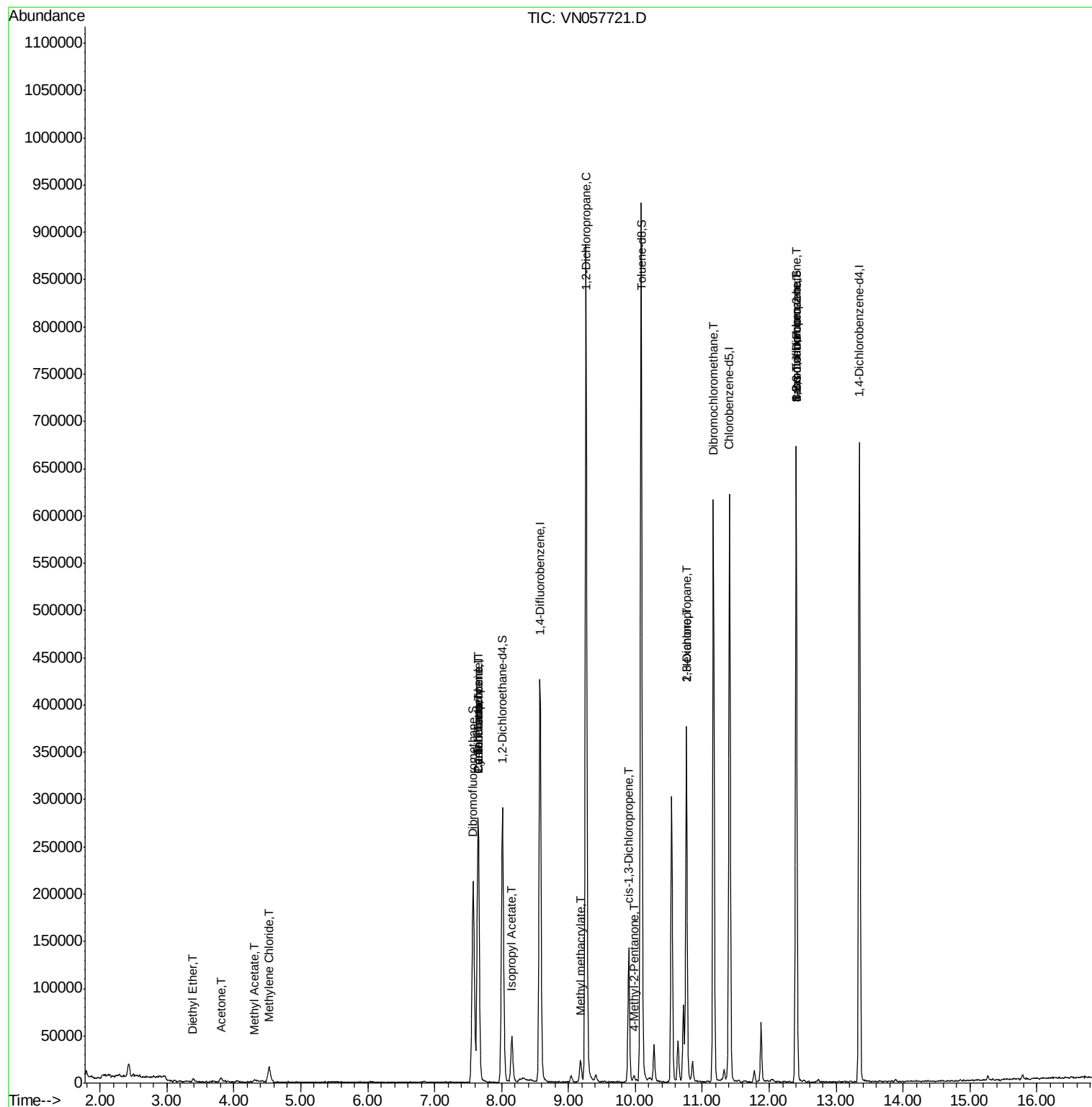
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	1425	Below Cal	#	63
8) Diethyl Ether	3.40	74	1407	0.796	ug/l	82
16) Acetone	3.80	43	7624	5.081	ug/l	99
18) Methyl Acetate	4.30	43	1620	0.397	ug/l	92
20) Methylene Chloride	4.53	84	8741	2.694	ug/l	96
31) Cyclohexane	7.65	56	6410	1.171	ug/l #	29
36) 1,1-Dichloropropene	7.65	75	19443	4.378	ug/l #	54
38) Carbon Tetrachloride	7.65	117	23142	5.442	ug/l #	16
43) Isopropyl Acetate	8.15	43	58756	6.943	ug/l	98
45) 1,2-Dichloropropane	9.27	63	893	0.254	ug/l #	44
48) Methyl methacrylate	9.17	41	4296	0.987	ug/l #	16
51) 4-Methyl-2-Pentanone	9.99	43	4084	0.869	ug/l	95
54) cis-1,3-Dichloropropene	9.90	75	21896	4.218	ug/l #	65
57) 1,3-Dichloropropane	10.76	76	3448	0.627	ug/l #	43
59) 2-Hexanone	10.76	43	63472	19.153	ug/l #	58
60) Dibromochloromethane	11.17	129	33	1.863	ug/l #	11
71) Bromoform	12.40	173	865	3.634	ug/l #	1
76) 1,2,3-Trichloropropane	12.40	75	129905	37.001	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	129905	115.075	ug/l #	1

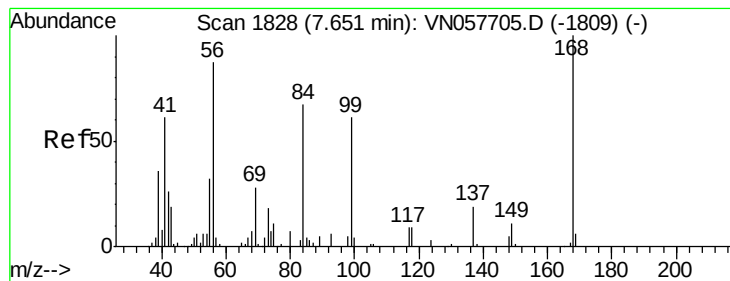
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057721.D

Acq: 6 Sep 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

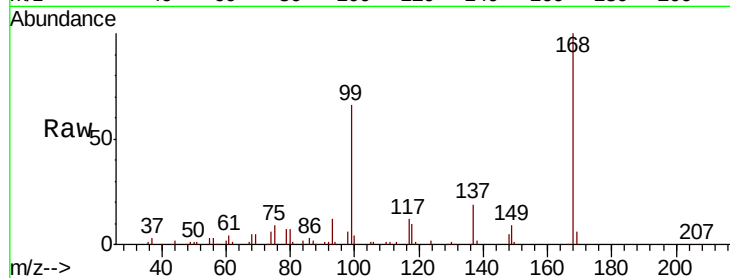
PAR-12-B4-(3.5)

Tgt Ion:168 Resp: 200446

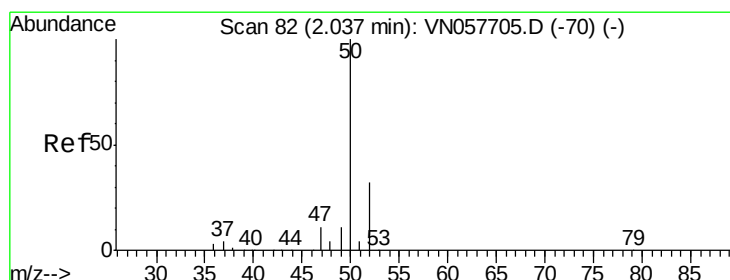
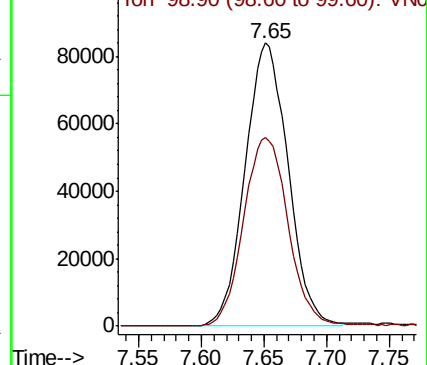
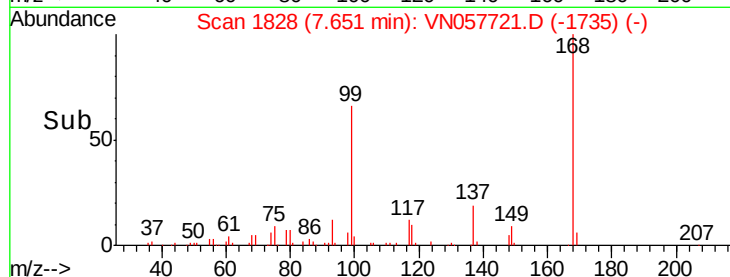
Ion Ratio Lower Upper

168 100

99 66.4 57.4 86.0



Abundance Ion 167.90 (167.60 to 168.60): VN057721.D (-1735) (-)



#3

Chloromethane

Concen: Below Cal

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN057721.D

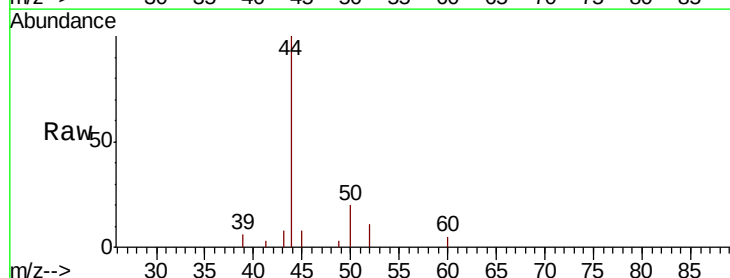
Acq: 6 Sep 2019 18:37

Tgt Ion: 50 Resp: 1425

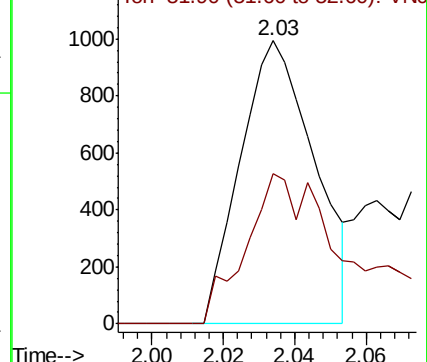
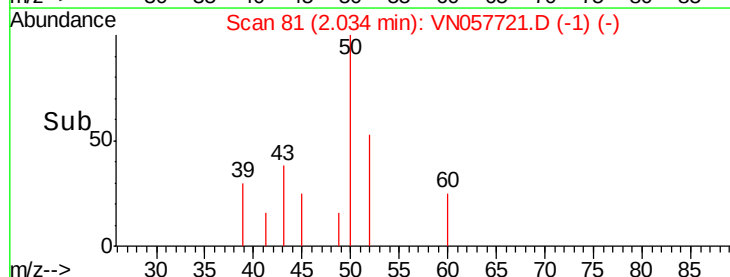
Ion Ratio Lower Upper

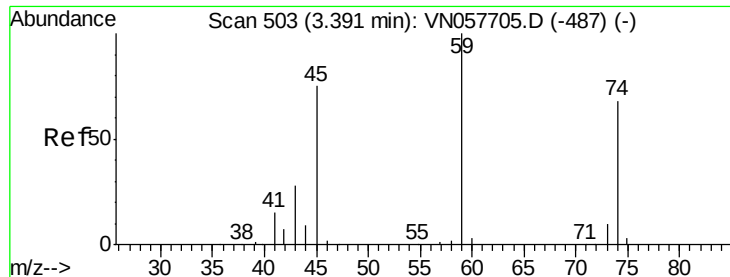
50 100

52 53.1 26.0 39.0#



Abundance Ion 49.90 (49.60 to 50.60): VN057721.D (-1) (-)





#8

Diethyl Ether

Concen: 0.796 ug/l

RT: 3.40 min Scan# 505

Delta R.T. 0.01 min

Lab File: VN057721.D

Acq: 6 Sep 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

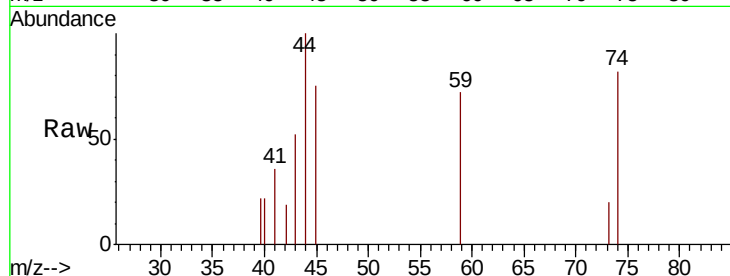
PAR-12-B4-(3.5)

Tgt Ion: 74 Resp: 1407

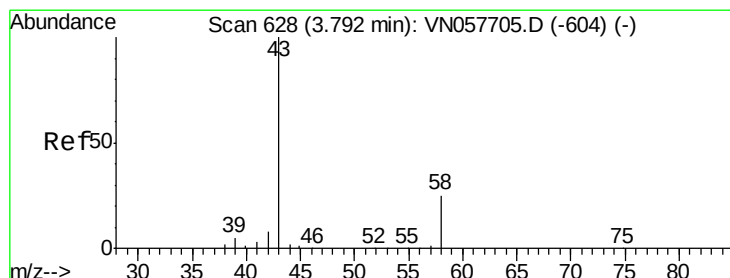
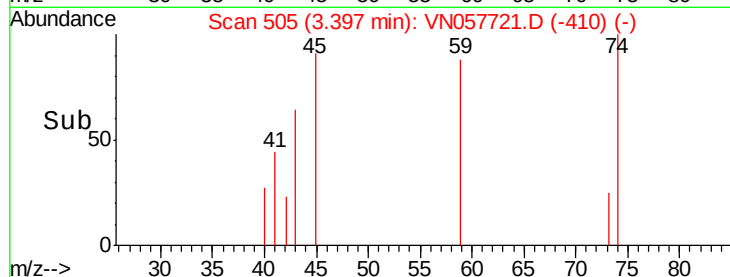
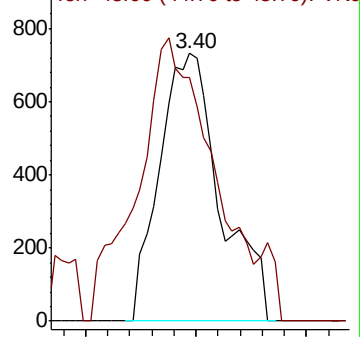
Ion Ratio Lower Upper

74 100

45 129.4 55.4 166.0



Abundance Ion 74.00 (73.70 to 74.70): VN057721.D (-487) (-)



#16

Acetone

Concen: 5.081 ug/l

RT: 3.80 min Scan# 631

Delta R.T. 0.01 min

Lab File: VN057721.D

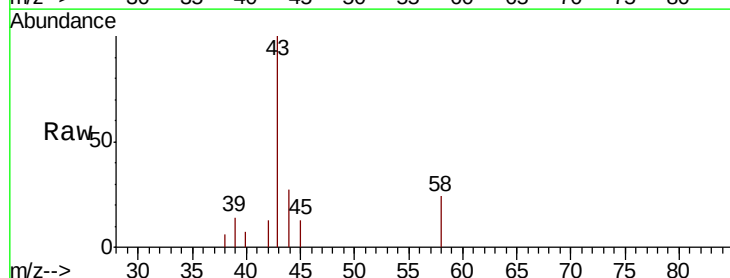
Acq: 6 Sep 2019 18:37

Tgt Ion: 43 Resp: 7624

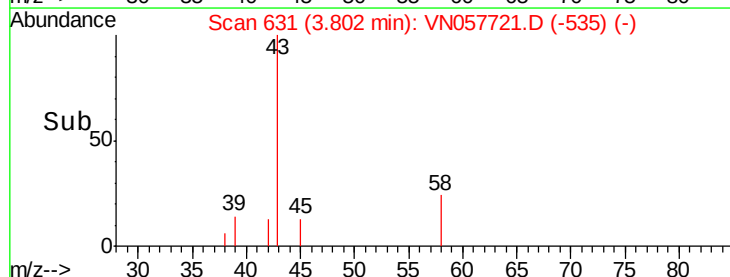
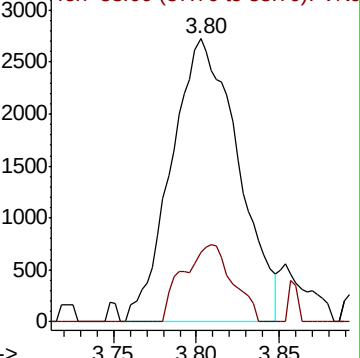
Ion Ratio Lower Upper

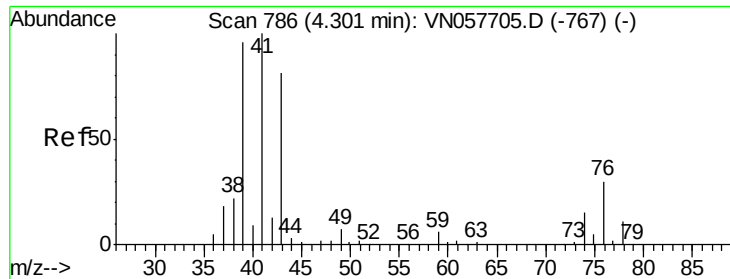
43 100

58 24.4 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN057721.D (-604) (-)

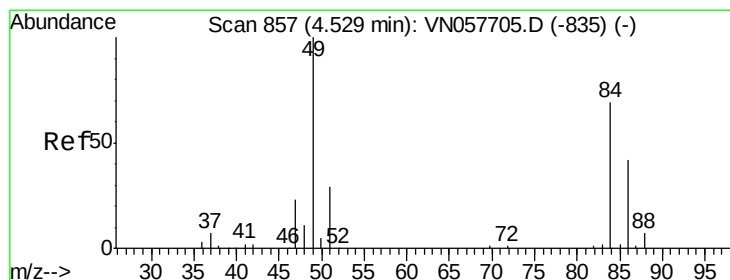
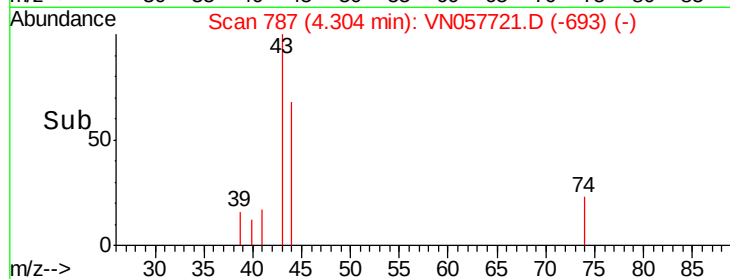
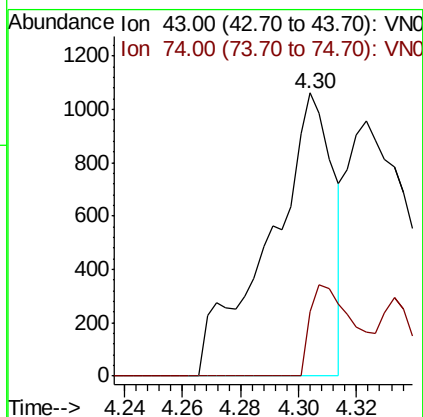
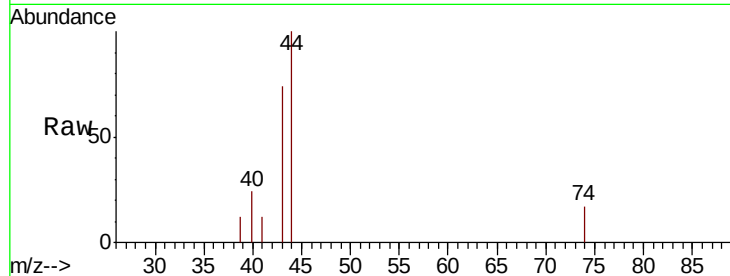




#18
Methyl Acetate
Concen: 0.397 ug/l
RT: 4.30 min Scan# 787
Delta R.T. 0.00 min
Lab File: VN057721.D
Acq: 6 Sep 2019 18:37

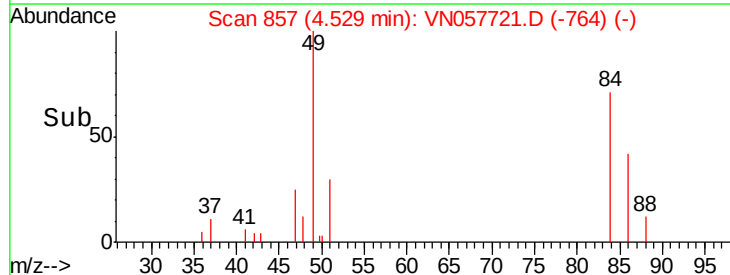
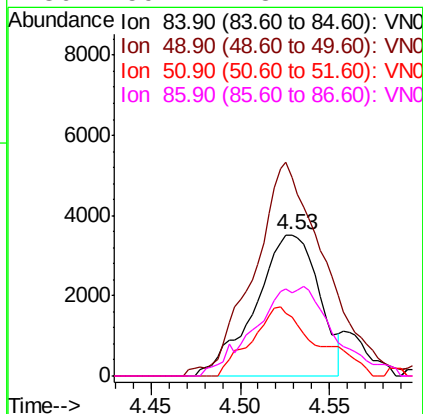
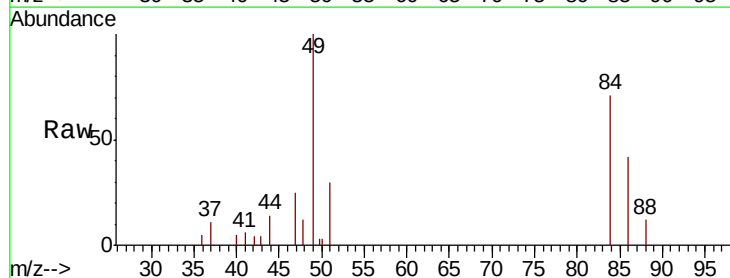
Instrument :
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PAR-12-B4-(3.5)

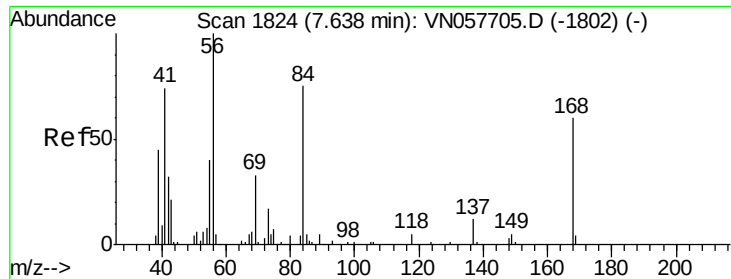
Tgt Ion: 43 Resp: 1620
Ion Ratio Lower Upper
43 100
74 22.9 15.3 22.9



#20
Methylene Chloride
Concen: 2.694 ug/l
RT: 4.53 min Scan# 857
Delta R.T. 0.00 min
Lab File: VN057721.D
Acq: 6 Sep 2019 18:37

Tgt Ion: 84 Resp: 8741
Ion Ratio Lower Upper
84 100
49 135.8 115.0 172.6
51 41.6 33.8 50.8
86 59.2 48.2 72.2

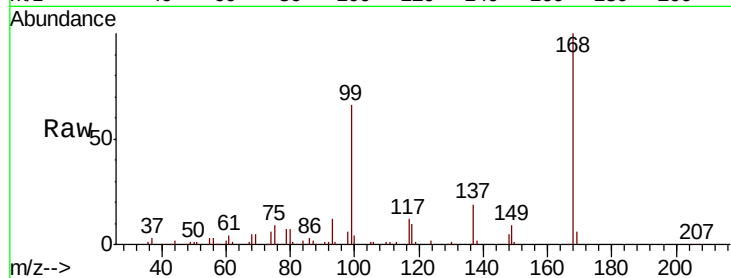




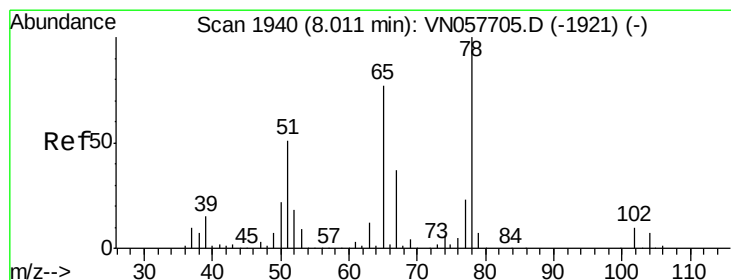
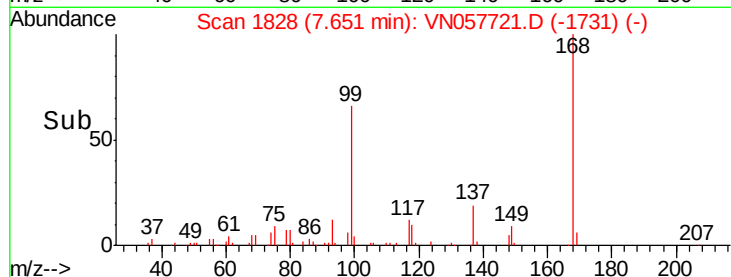
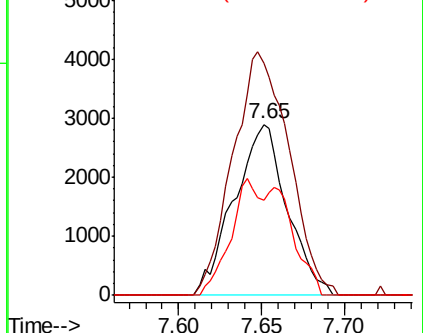
#31
Cyclohexane
Concen: 1.171 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN057721.D
Acq: 6 Sep 2019 18:37

Instrument :
MSVOA_N
ClientSampleId :
PAR-12-B4-(3.5)

Tgt Ion: 56 Resp: 6410
Ion Ratio Lower Upper
56 100
69 135.5 26.2 39.2#
84 55.5 59.8 89.8#

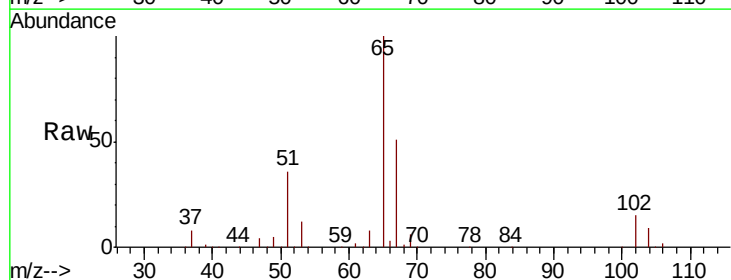


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

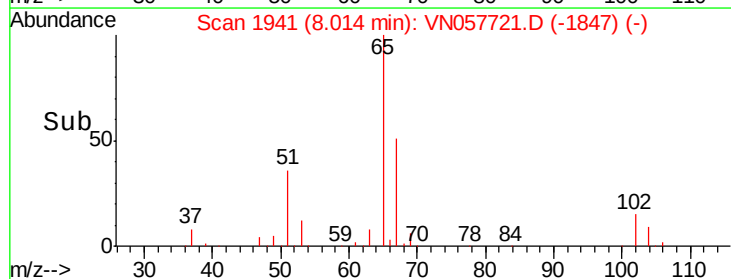
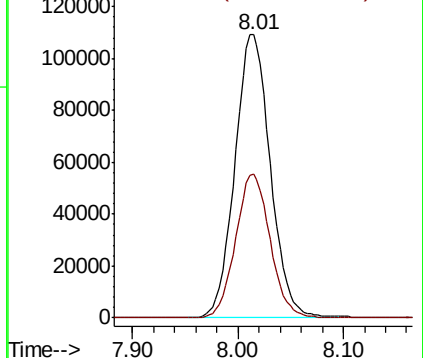


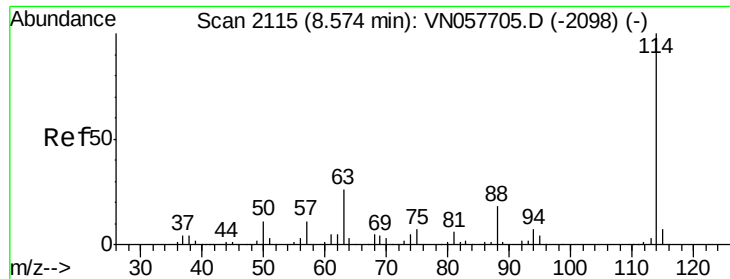
#33
1,2-Dichloroethane-d4
Concen: 52.223 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN057721.D
Acq: 6 Sep 2019 18:37

Tgt Ion: 65 Resp: 254654
Ion Ratio Lower Upper
65 100
67 49.4 0.0 98.2



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

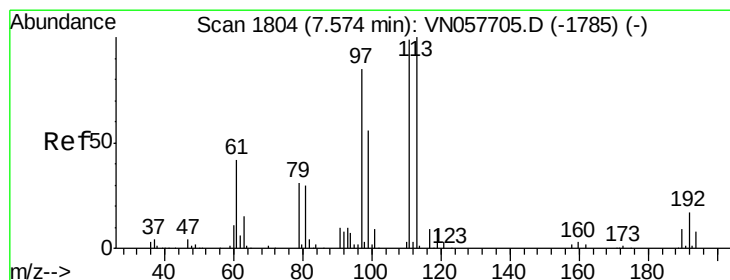
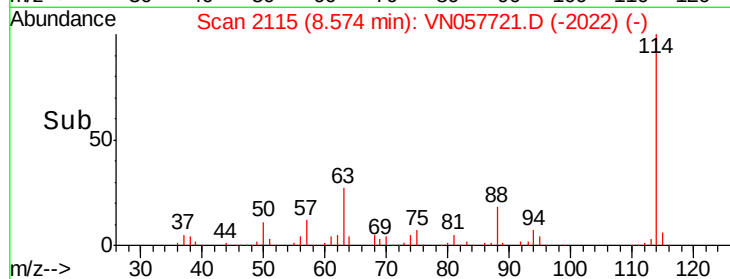
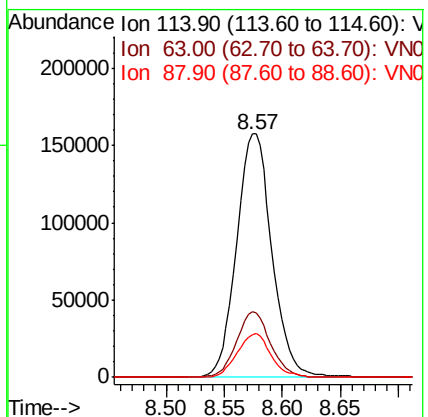
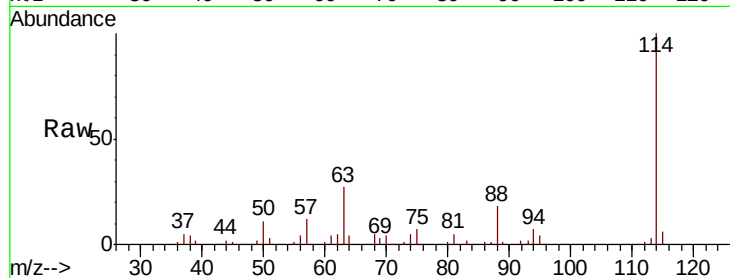




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.57 min Scan# 2115
 Delta R.T. 0.00 min
 Lab File: VN057721.D
 Acq: 6 Sep 2019 18:37

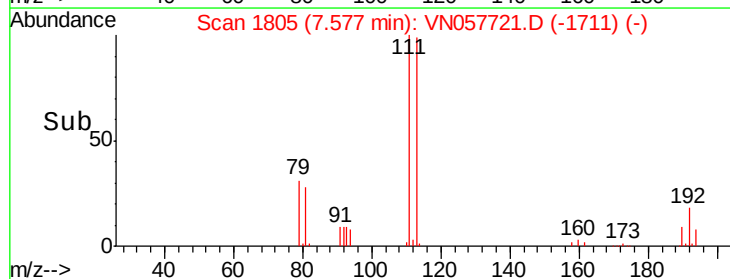
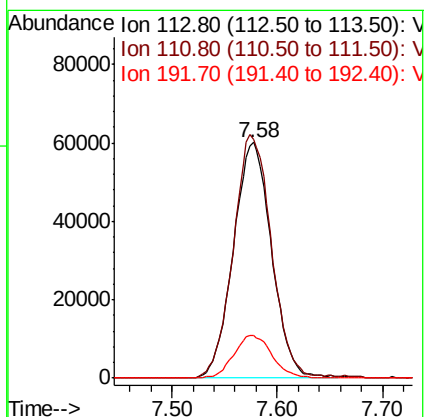
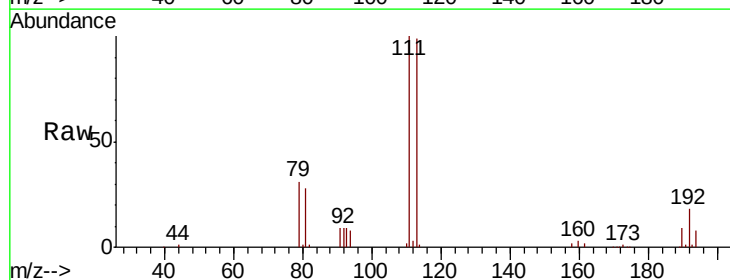
Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-12-B4-(3.5)

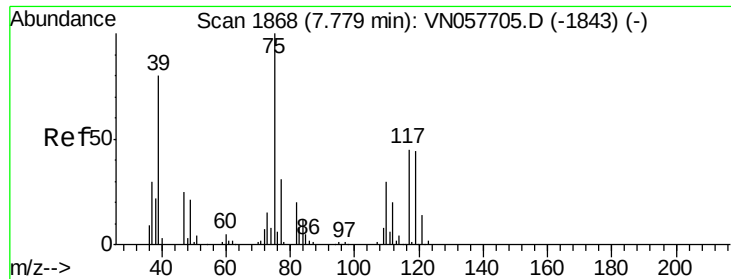
Tgt Ion:114 Resp: 333807
 Ion Ratio Lower Upper
 114 100
 63 27.1 0.0 52.4
 88 17.7 0.0 35.4



#35
 Dibromofluoromethane
 Concen: 49.789 ug/l
 RT: 7.58 min Scan# 1805
 Delta R.T. 0.00 min
 Lab File: VN057721.D
 Acq: 6 Sep 2019 18:37

Tgt Ion:113 Resp: 151383
 Ion Ratio Lower Upper
 113 100
 111 102.9 82.7 124.1
 192 18.0 13.8 20.6





#36

1,1-Dichloropropene

Concen: 4.378 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. -0.13 min

Lab File: VN057721.D

Acq: 6 Sep 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

PAR-12-B4-(3.5)

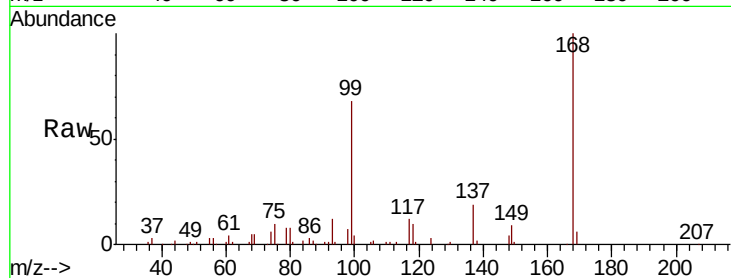
Tgt Ion: 75 Resp: 19443

Ion Ratio Lower Upper

75 100

110 10.3 15.0 45.0#

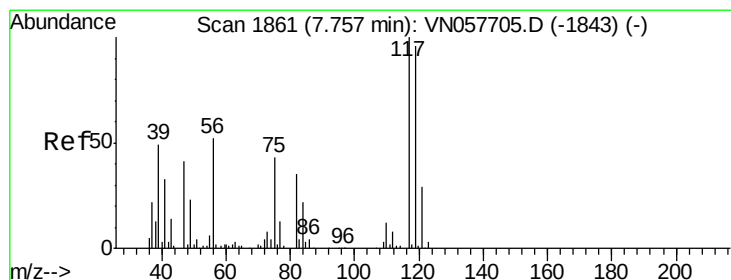
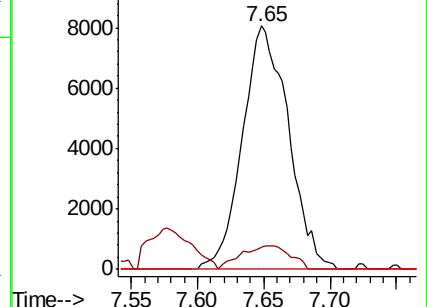
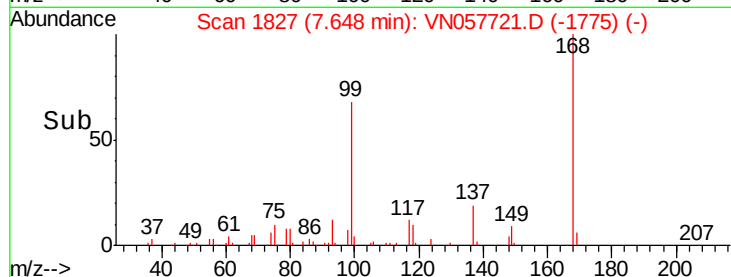
77 0.0 24.6 37.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VN0



#38

Carbon Tetrachloride

Concen: 5.442 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. -0.11 min

Lab File: VN057721.D

Acq: 6 Sep 2019 18:37

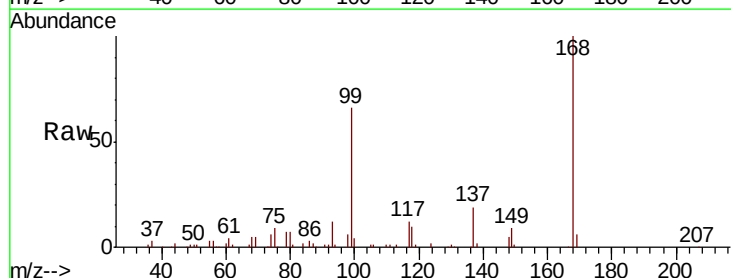
Tgt Ion: 117 Resp: 23142

Ion Ratio Lower Upper

117 100

119 5.0 76.1 114.1#

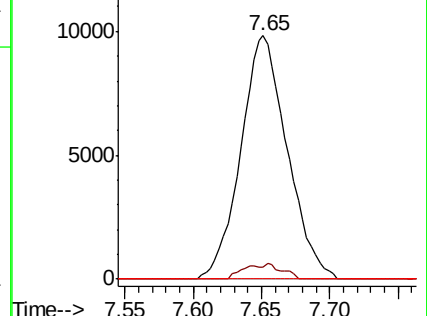
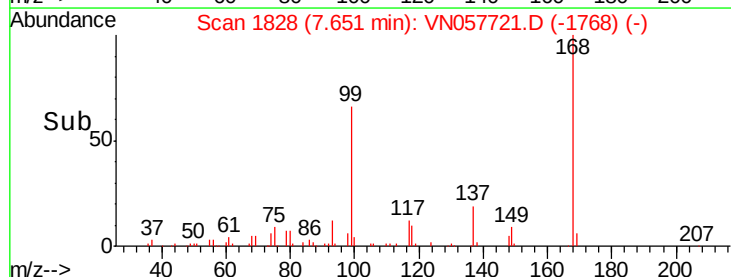
121 0.0 23.4 35.2#

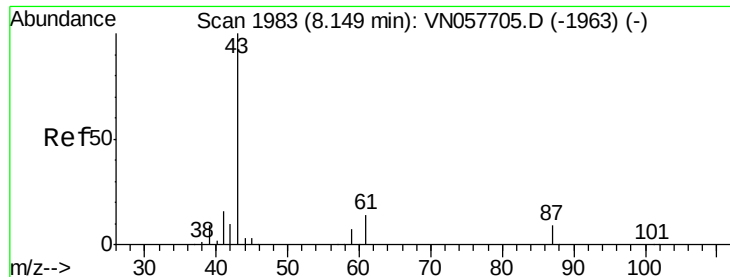


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#43

Isopropyl Acetate

Concen: 6.943 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057721.D

Acq: 6 Sep 2019 18:37

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ClientSampleId :

PAR-12-B4-(3.5)

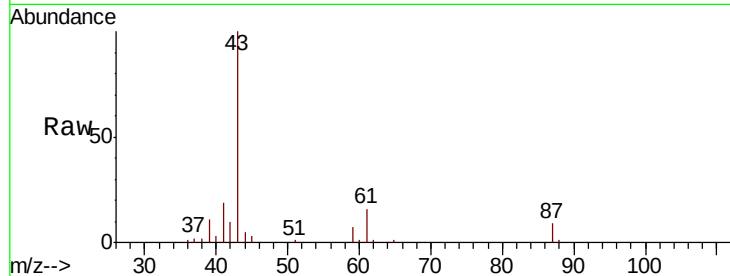
Tgt Ion: 43 Resp: 58756

Ion Ratio Lower Upper

43 100

61 17.1 12.8 19.2

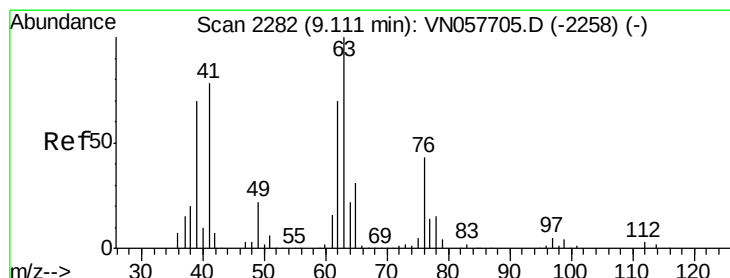
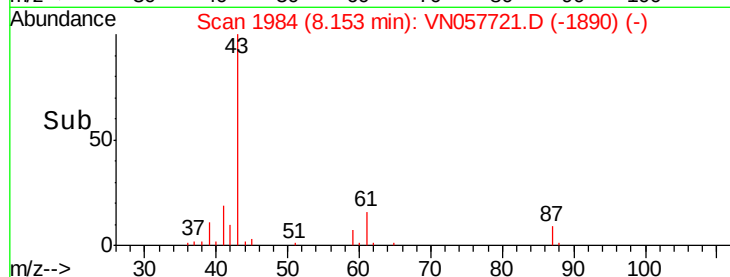
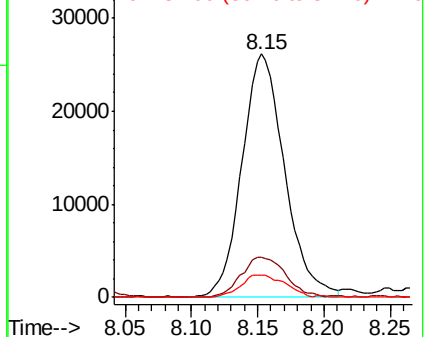
87 9.5 7.8 11.8



Abundance Ion 43.00 (42.70 to 43.70): VN057705.D (-1963) (-)

Ion 61.00 (60.70 to 61.70): VN057705.D (-1963) (-)

Ion 87.00 (86.70 to 87.70): VN057705.D (-1963) (-)



#45

1,2-Dichloropropane

Concen: 0.254 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.15 min

Lab File: VN057721.D

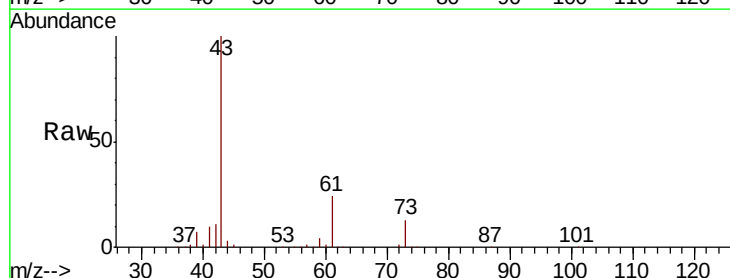
Acq: 6 Sep 2019 18:37

Tgt Ion: 63 Resp: 893

Ion Ratio Lower Upper

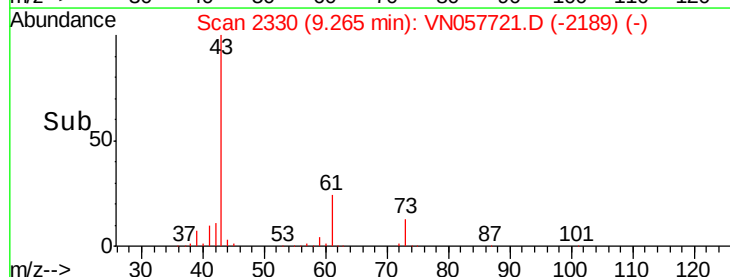
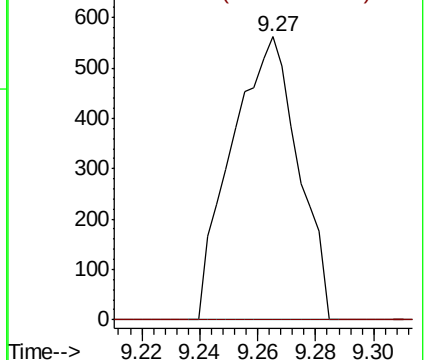
63 100

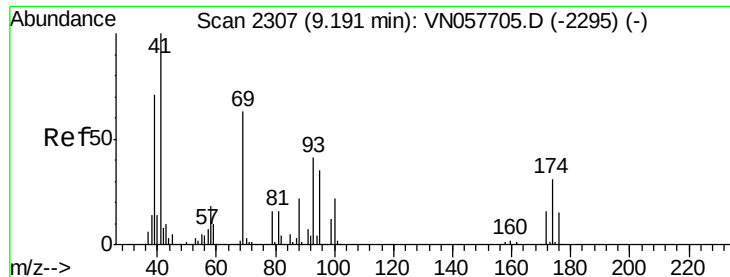
65 0.0 24.5 36.7#



Abundance Ion 62.90 (62.60 to 63.60): VN057705.D (-2258) (-)

Ion 64.90 (64.60 to 65.60): VN057705.D (-2258) (-)

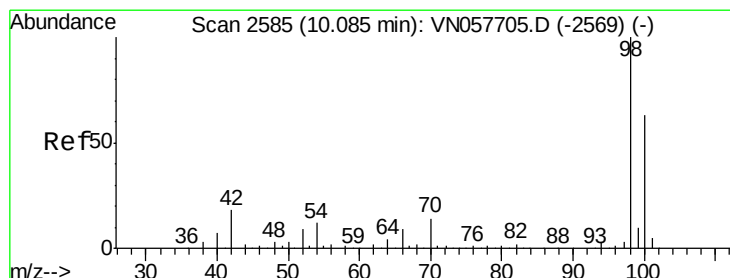
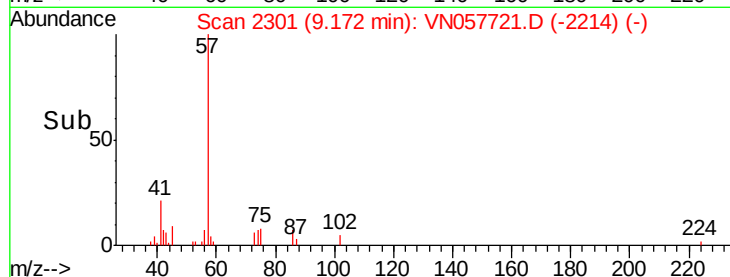
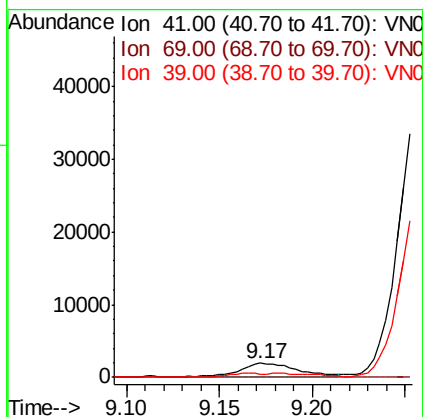
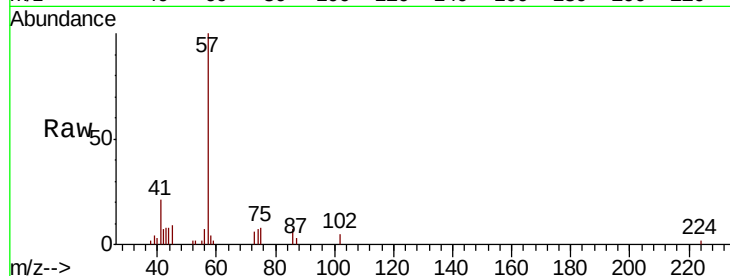




#48
Methyl methacrylate
Concen: 0.987 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN057721.D
Acq: 6 Sep 2019 18:37

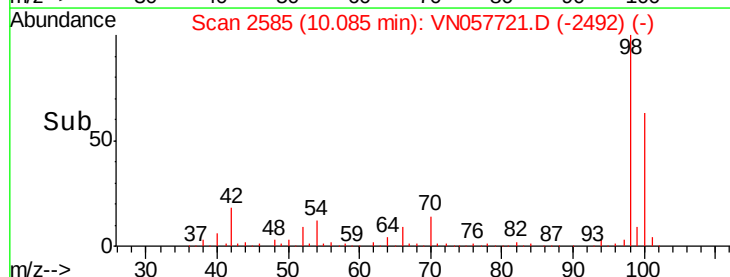
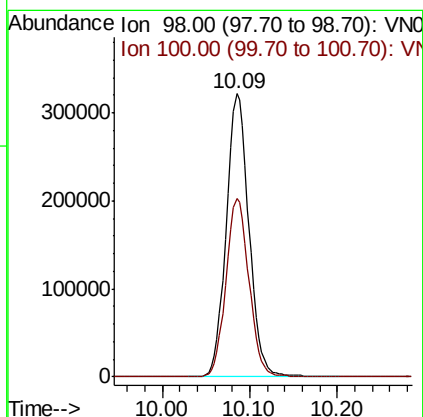
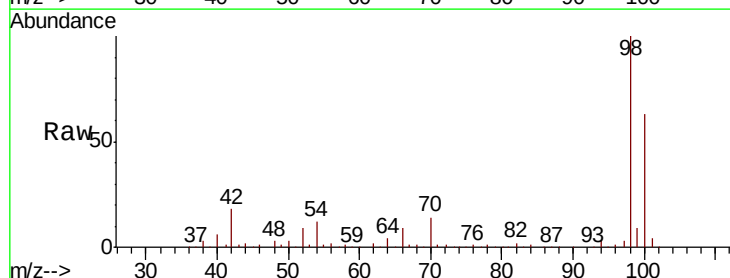
Instrument :
MSVOA_N
ClientSampleId :
PAR-12-B4-(3.5)

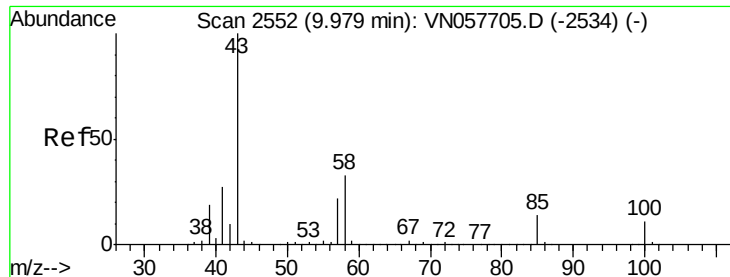
Tgt Ion: 41 Resp: 4296
Ion Ratio Lower Upper
41 100
69 0.0 51.2 76.8#
39 0.0 57.3 85.9#



#50
Toluene-d8
Concen: 51.557 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057721.D
Acq: 6 Sep 2019 18:37

Tgt Ion: 98 Resp: 579888
Ion Ratio Lower Upper
98 100
100 64.0 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 0.869 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.01 min

Lab File: VN057721.D

Acq: 6 Sep 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

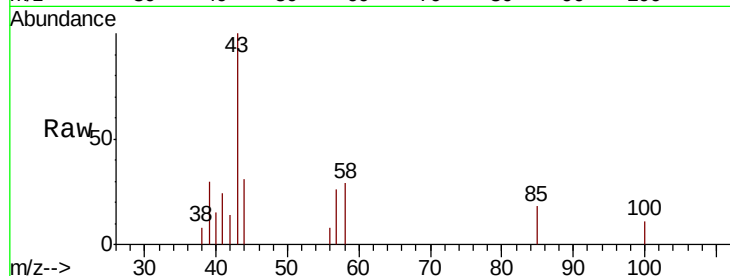
PAR-12-B4-(3.5)

Tgt Ion: 43 Resp: 4084

Ion Ratio Lower Upper

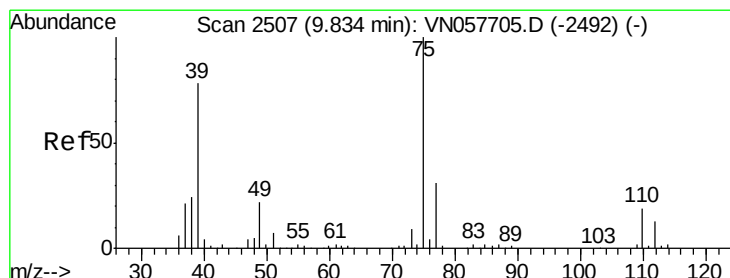
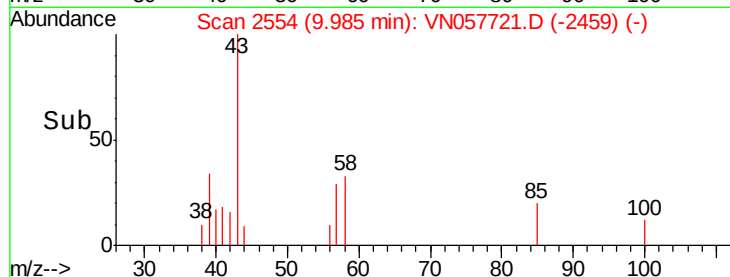
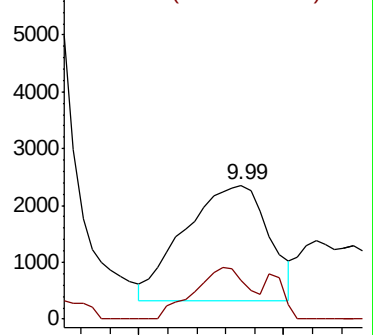
43 100

58 29.5 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN057721.D (-2459) (-)

Ion 58.00 (57.70 to 58.70): VN057721.D (-2459) (-)



#54

cis-1,3-Dichloropropene

Concen: 4.218 ug/l

RT: 9.90 min Scan# 2527

Delta R.T. 0.06 min

Lab File: VN057721.D

Acq: 6 Sep 2019 18:37

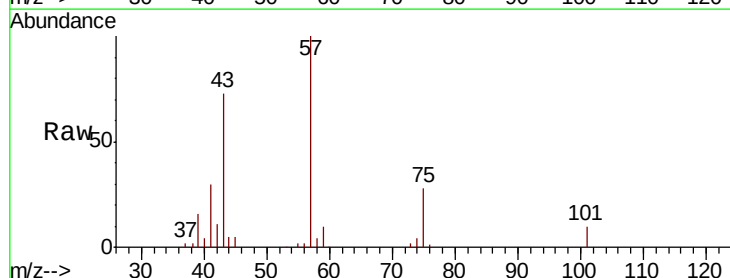
Tgt Ion: 75 Resp: 21896

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

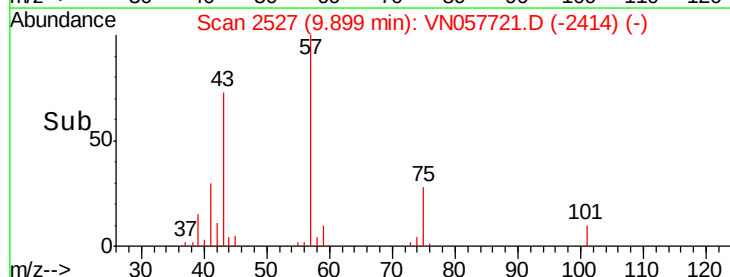
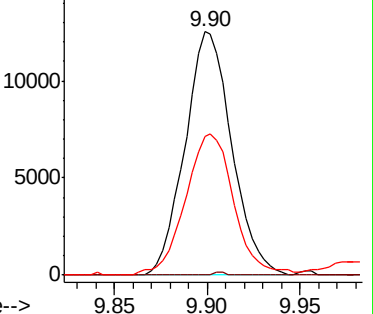
39 55.5 62.4 93.6#

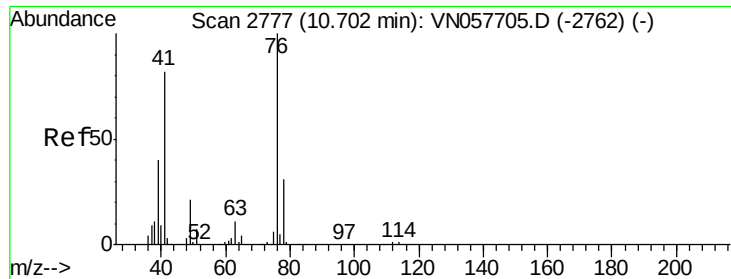


Abundance Ion 74.90 (74.60 to 75.60): VN057721.D (-2414) (-)

Ion 76.90 (76.60 to 77.60): VN057721.D (-2414) (-)

Ion 39.00 (38.70 to 39.70): VN057721.D (-2414) (-)

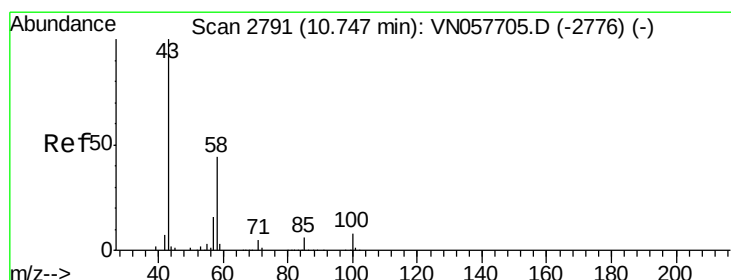
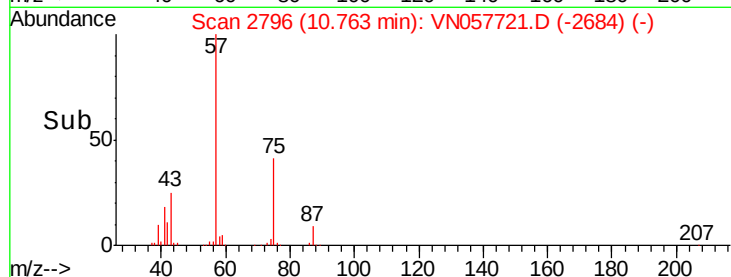
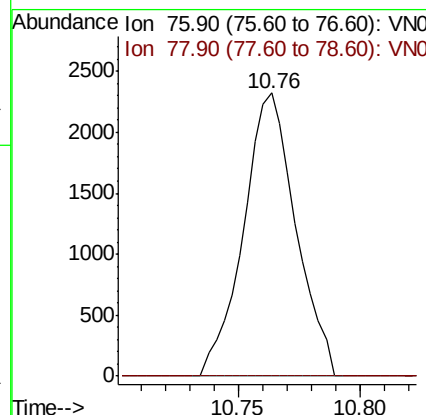
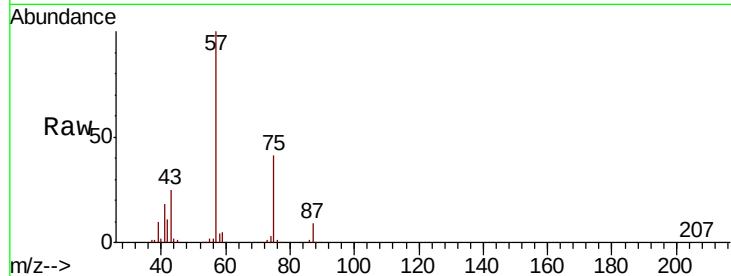




#57
 1,3-Dichloropropane
 Concen: 0.627 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN057721.D
 Acq: 6 Sep 2019 18:37

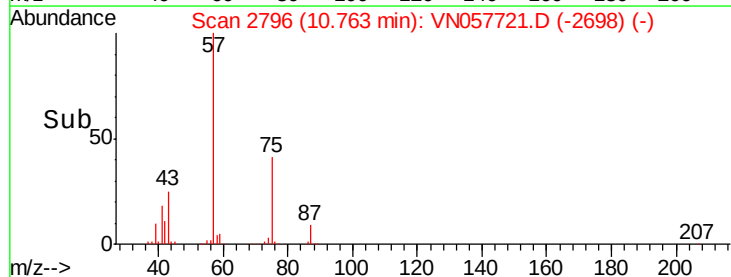
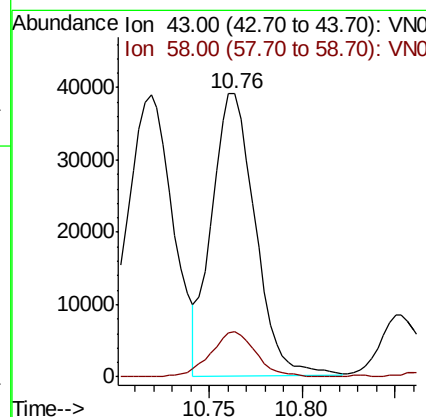
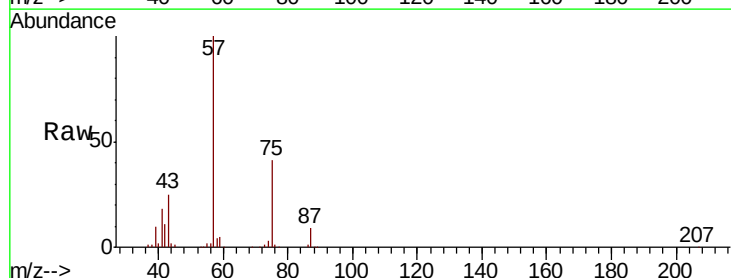
Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-12-B4-(3.5)

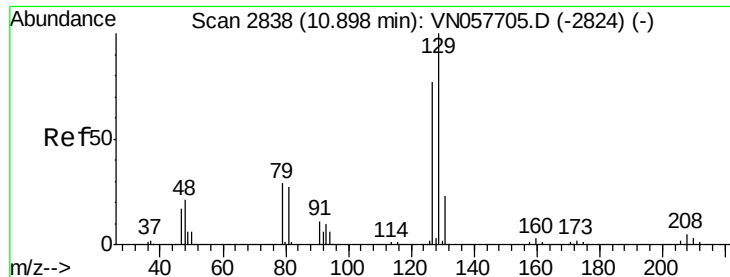
Tgt Ion: 76 Resp: 3448
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.5 38.3#



#59
 2-Hexanone
 Concen: 19.153 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.02 min
 Lab File: VN057721.D
 Acq: 6 Sep 2019 18:37

Tgt Ion: 43 Resp: 63472
 Ion Ratio Lower Upper
 43 100
 58 16.7 22.1 66.5#





#60

Dibromochloromethane

Concen: 1.863 ug/l

RT: 11.17 min Scan# 2922

Delta R.T. 0.27 min

Lab File: VN057721.D

Acq: 6 Sep 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

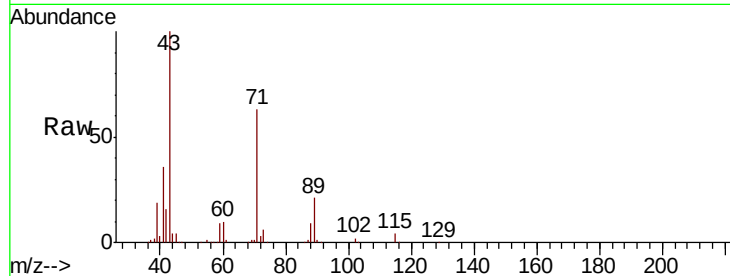
PAR-12-B4-(3.5)

Tgt Ion: 129 Resp: 33

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.2#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

11.17

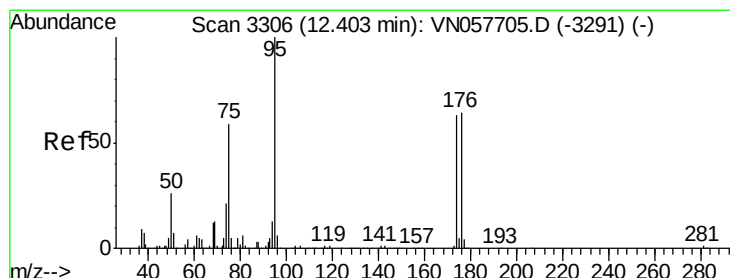
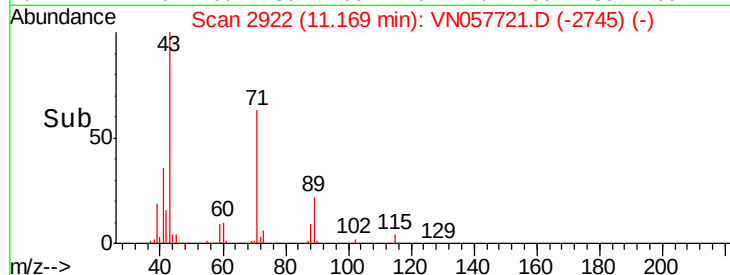
150

100

50

0

Time-->



#62

4-Bromofluorobenzene

Concen: 46.062 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057721.D

Acq: 6 Sep 2019 18:37

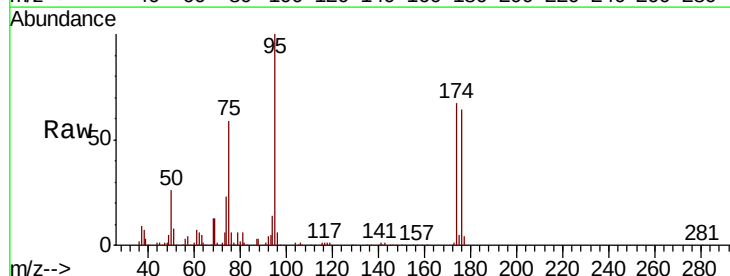
Tgt Ion: 95 Resp: 215184

Ion Ratio Lower Upper

95 100

174 67.5 0.0 128.0

176 64.8 0.0 128.0



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

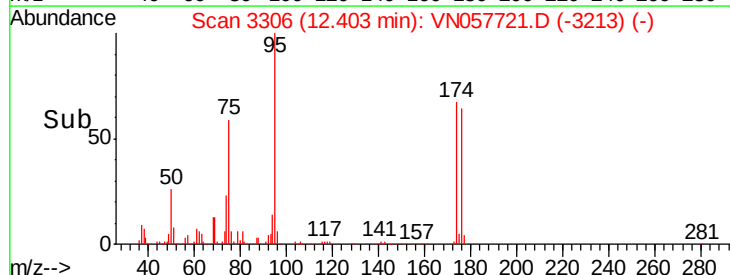
150000

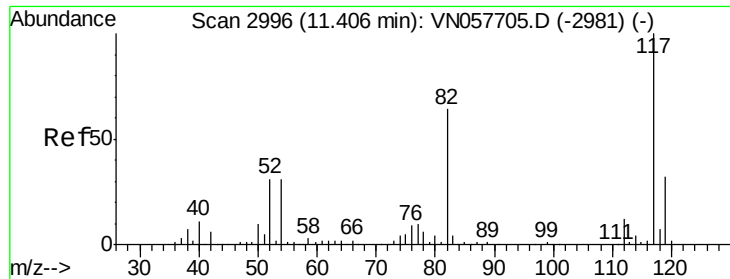
100000

50000

0

Time-->





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN057721.D

Acq: 6 Sep 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

PAR-12-B4-(3.5)

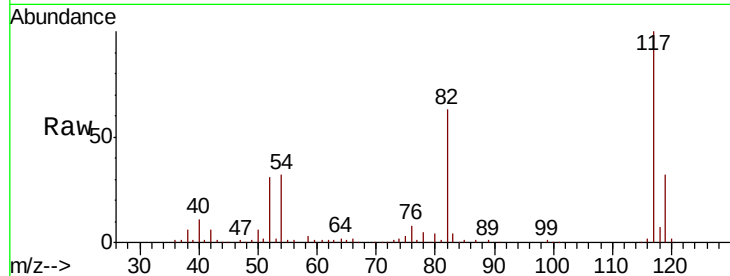
Tgt Ion:117 Resp: 303833

Ion Ratio Lower Upper

117 100

82 63.1 51.4 77.0

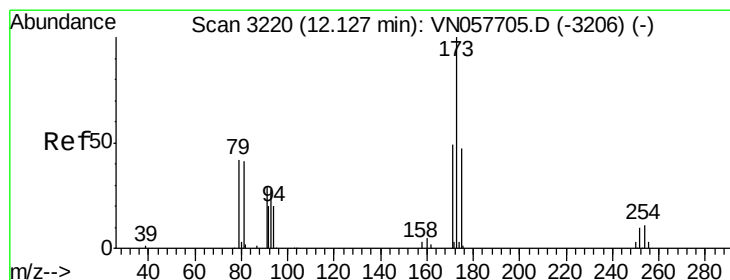
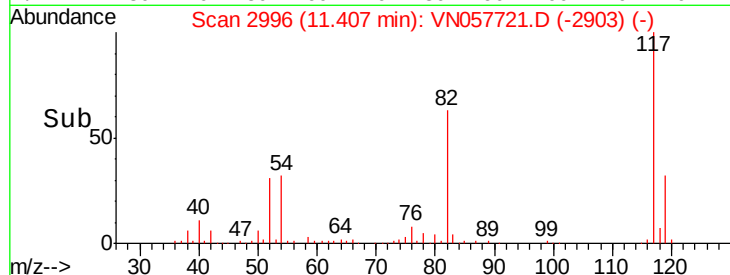
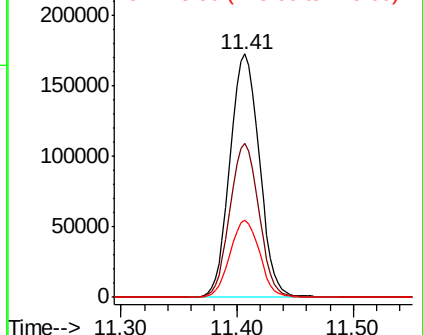
119 31.6 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VN

Ion 118.90 (118.60 to 119.60): V



#71

Bromoform

Concen: 3.634 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN057721.D

Acq: 6 Sep 2019 18:37

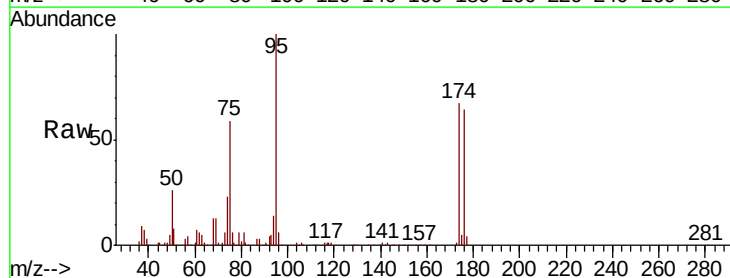
Tgt Ion:173 Resp: 865

Ion Ratio Lower Upper

173 100

175 1064.5 24.6 73.8#

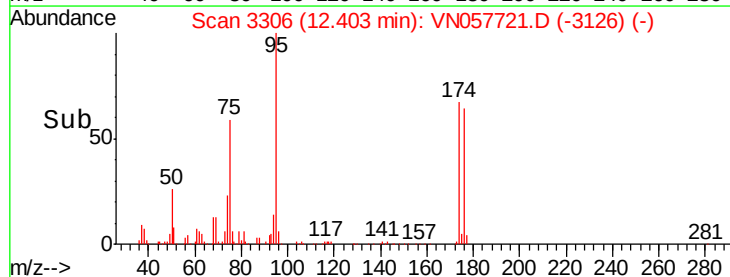
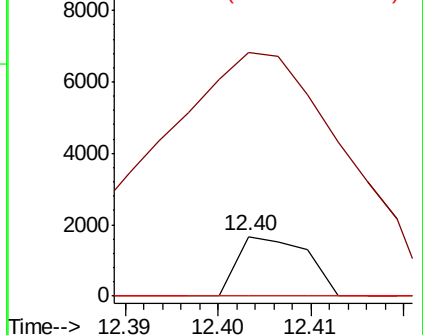
254 0.0 0.0 0.0

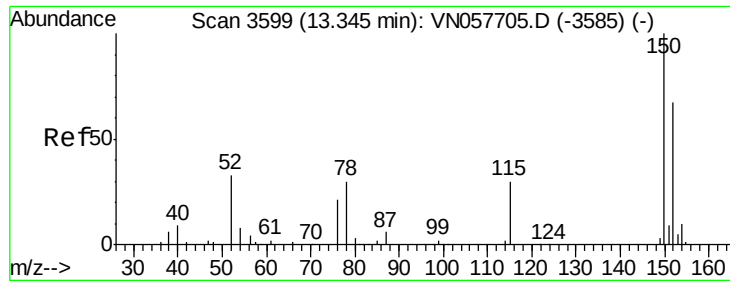


Abundance Ion 172.70 (172.40 to 173.40): V

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# 3600

Delta R.T. 0.00 min

Lab File: VN057721.D

Acq: 6 Sep 2019 18:37

Instrument :

MSVOA_N

ClientSampleId :

PAR-12-B4-(3.5)

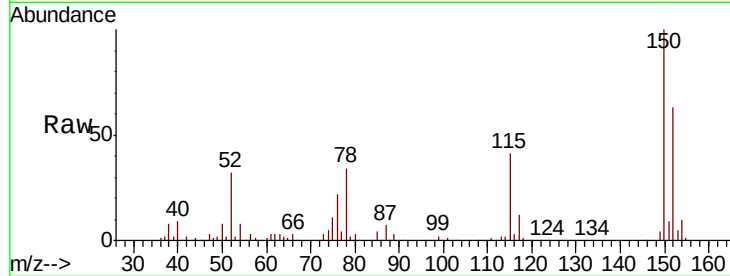
Tgt Ion:152 Resp: 152885

Ion Ratio Lower Upper

152 100

115 65.8 33.8 101.3

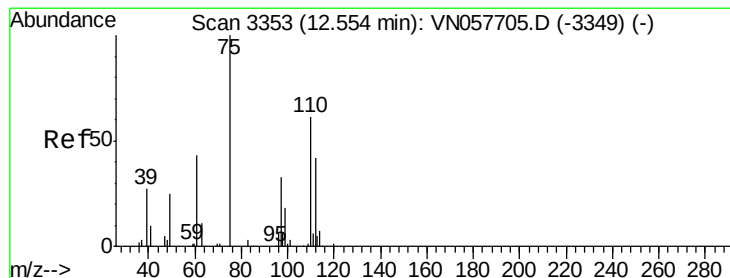
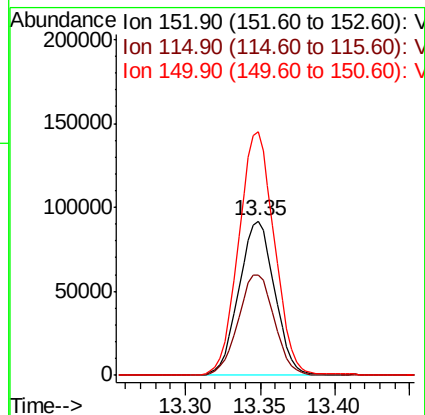
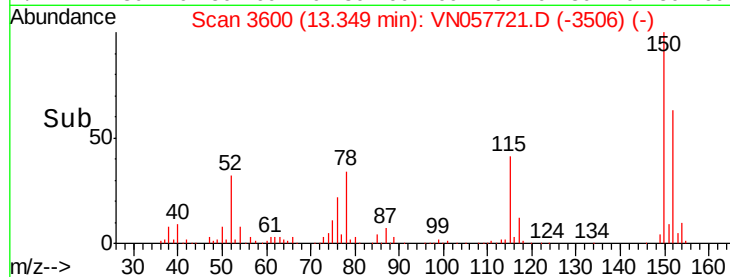
150 157.6 0.0 345.4



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



#76

1,2,3-Trichloropropane

Concen: 37.001 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057721.D

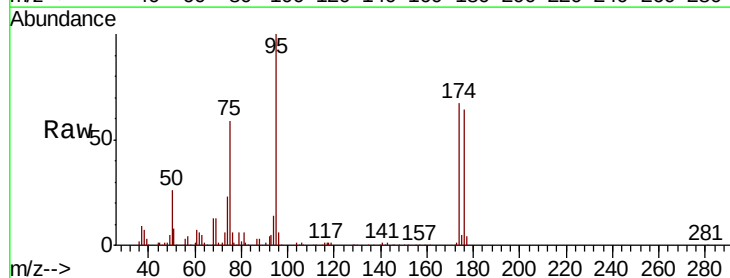
Acq: 6 Sep 2019 18:37

Tgt Ion: 75 Resp: 129905

Ion Ratio Lower Upper

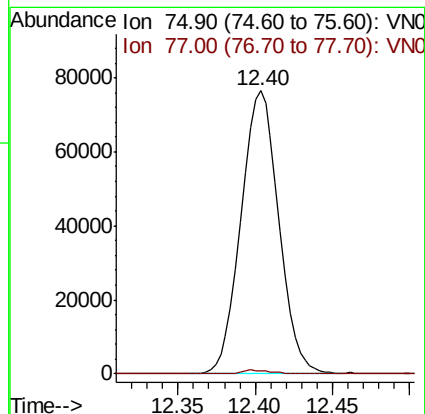
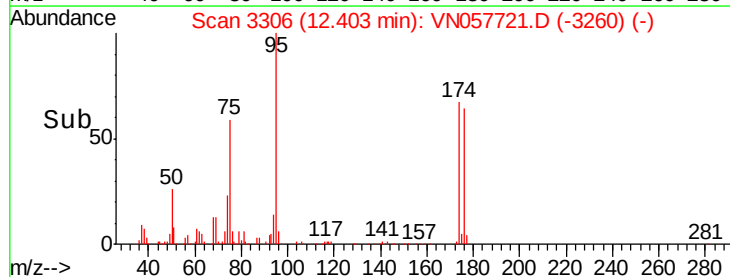
75 100

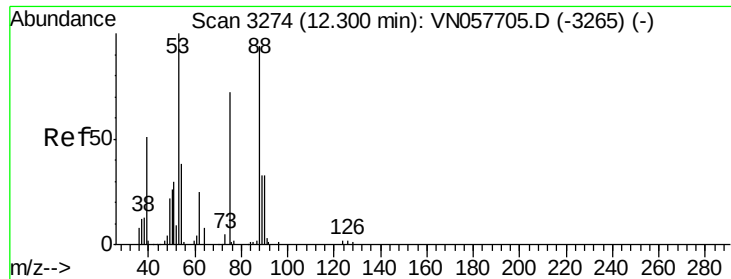
77 1.1 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81
 trans-1,4-Dichloro-2-butene
 Concen: 115.075 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN057721.D
 Acq: 6 Sep 2019 18:37

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-12-B4-(3.5)

Tgt Ion: 75 Resp: 129905
 Ion Ratio Lower Upper
 75 100
 53 0.0 107.0 160.6#
 89 0.0 36.5 54.7#

