

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN090619\
 Data File : VN057732.D
 Acq On : 6 Sep 2019 22:39
 Operator : JC/SP
 Sample : K4580-31
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-12-C1-(3.5)

Quant Time: Sep 06 23:29:01 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

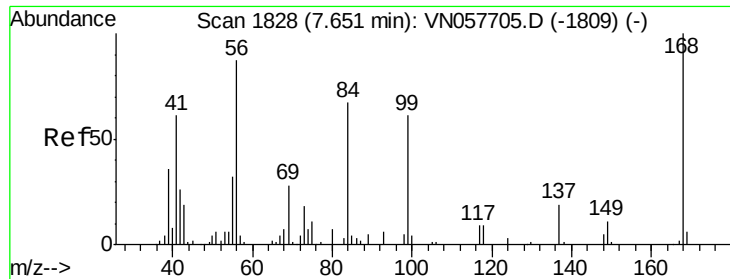
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	189943	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	331636	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	304851	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	155381	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.01	65	256399	55.49	ug/l	0.00
Spiked Amount			Recovery	=	110.98%	
35) Dibromofluoromethane	7.58	113	150825	49.93	ug/l	0.00
Spiked Amount			Recovery	=	99.86%	
50) Toluene-d8	10.09	98	586829	52.52	ug/l	0.00
Spiked Amount			Recovery	=	105.04%	
62) 4-Bromofluorobenzene	12.40	95	218247	47.02	ug/l	0.00
Spiked Amount			Recovery	=	94.04%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.04	50	1532	Below Cal		97
13) Acrolein	3.57	56	173	0.693	ug/l #	15
16) Acetone	3.80	43	6229	4.381	ug/l #	87
18) Methyl Acetate	4.31	43	3009	0.778	ug/l #	74
20) Methylene Chloride	4.53	84	4460	1.451	ug/l #	90
25) 2-Butanone	6.82	43	688	0.338	ug/l #	55
29) Tetrahydrofuran	7.20	42	325	0.247	ug/l #	40
31) Cyclohexane	7.65	56	7365	1.420	ug/l #	37
36) 1,1-Dichloropropene	7.65	75	19735	4.473	ug/l #	53
38) Carbon Tetrachloride	7.65	117	21529	5.096	ug/l #	18
43) Isopropyl Acetate	8.15	43	78606	9.350	ug/l	100
45) 1,2-Dichloropropane	9.26	63	1286	0.368	ug/l #	44
48) Methyl methacrylate	9.17	41	4579	1.059	ug/l #	16
51) 4-Methyl-2-Pentanone	9.98	43	3254	0.697	ug/l #	69
54) cis-1,3-Dichloropropene	9.90	75	28539	5.534	ug/l #	63
56) Ethyl methacrylate	10.54	69	1337	0.275	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	4940	0.904	ug/l #	43
59) 2-Hexanone	10.76	43	83923	25.490	ug/l #	59
60) Dibromochloromethane	11.17	129	36	1.864	ug/l #	11
71) Bromoform	12.40	173	529	3.481	ug/l #	1
74) N-amyl acetate	12.04	43	2956	0.431	ug/l #	55
76) 1,2,3-Trichloropropane	12.40	75	134345	37.651	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	134345	117.096	ug/l #	1

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

```
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ALS Vial  : 24 Sample Multiplier: 1
```



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.65 min Scan# 1828

Delta R.T. 0.00 min

Lab File: VN057732.D

Acq: 6 Sep 2019 22:39

Instrument :

MSVOA_N

ClientSampleId :

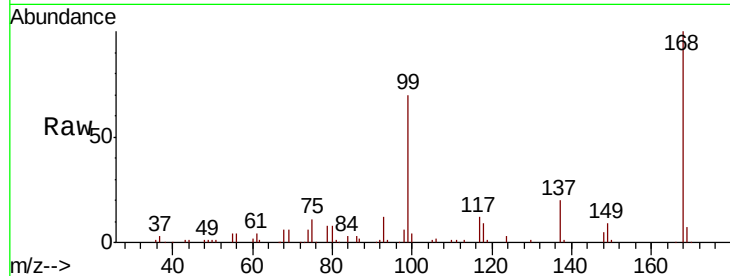
PAR-12-C1-(3.5)

Tgt Ion: 168 Resp: 189943

Ion Ratio Lower Upper

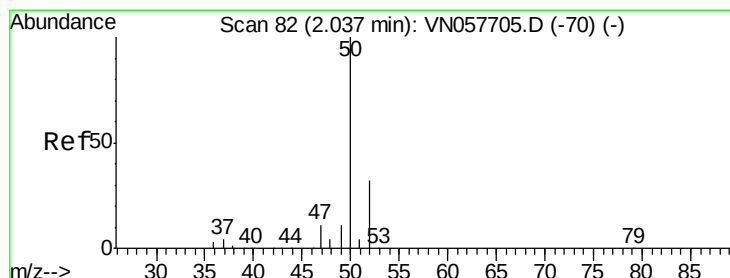
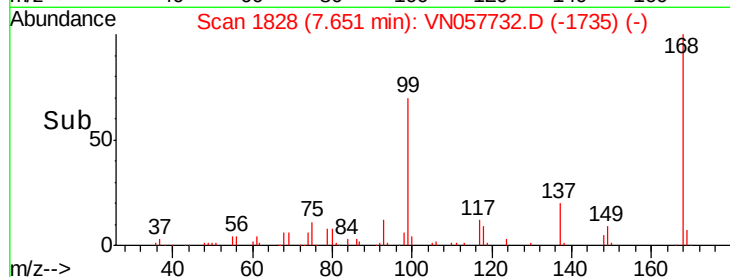
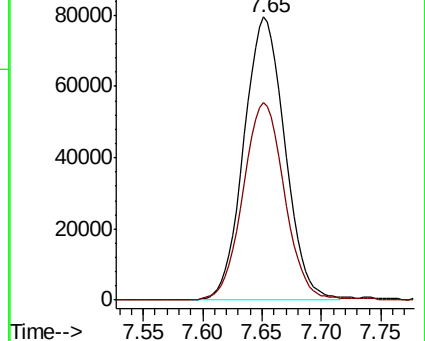
168 100

99 69.9 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: VN057732.D

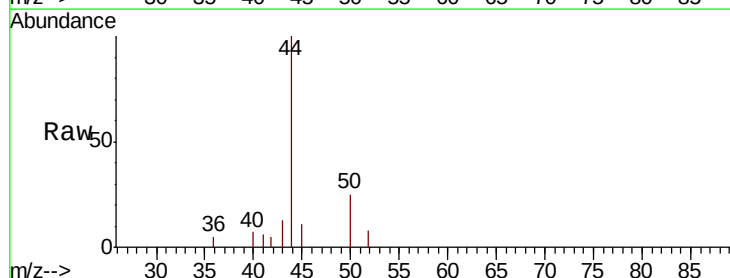
Acq: 6 Sep 2019 22:39

Tgt Ion: 50 Resp: 1532

Ion Ratio Lower Upper

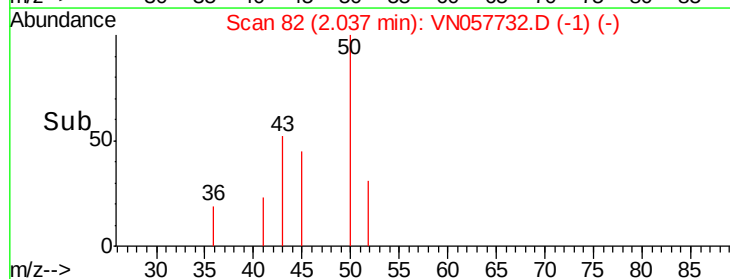
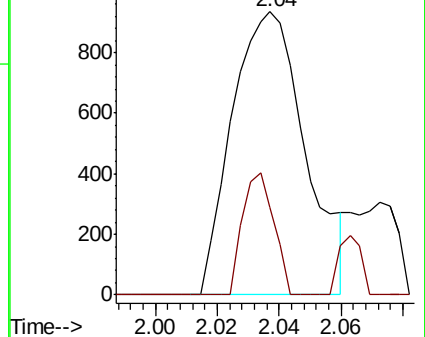
50 100

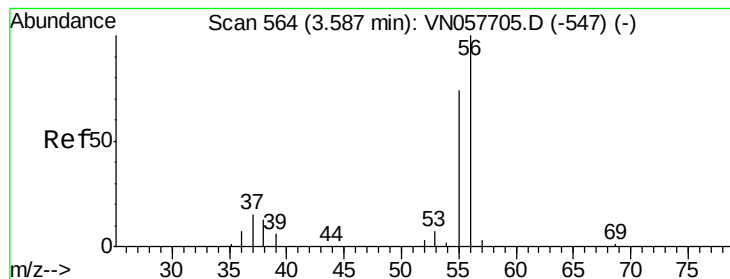
52 30.9 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#13

Acrolein

Concen: 0.693 ug/l

RT: 3.57 min Scan# 560

Delta R.T. -0.01 min

Lab File: VN057732.D

Acq: 6 Sep 2019 22:39

Instrument :

MSVOA_N

ClientSampleId :

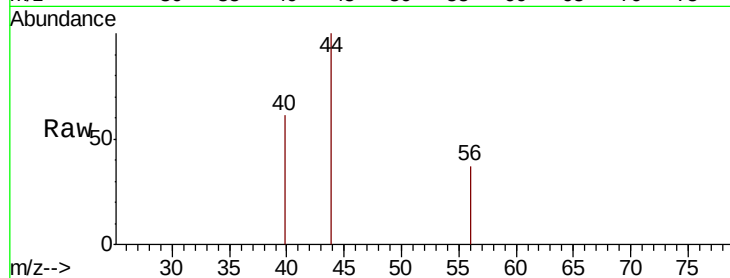
PAR-12-C1-(3.5)

Tgt Ion: 56 Resp: 173

Ion Ratio Lower Upper

56 100

55 0.0 55.4 83.0#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.57

250

200

150

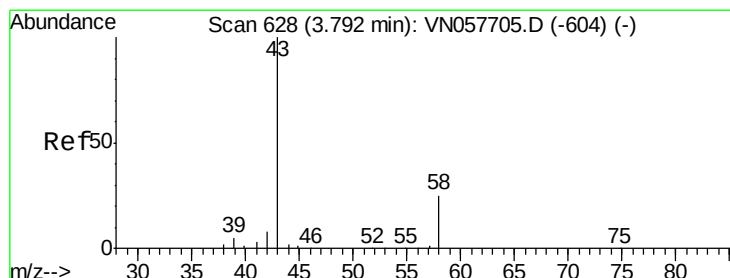
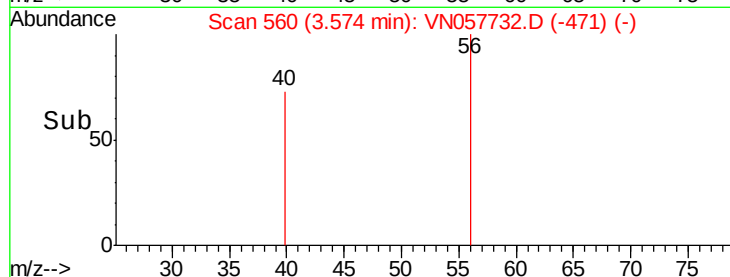
100

50

0

3.56 3.57 3.58 3.59

Time-->



#16

Acetone

Concen: 4.381 ug/l

RT: 3.80 min Scan# 630

Delta R.T. 0.01 min

Lab File: VN057732.D

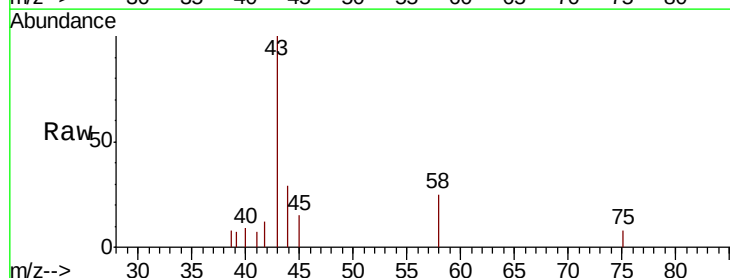
Acq: 6 Sep 2019 22:39

Tgt Ion: 43 Resp: 6229

Ion Ratio Lower Upper

43 100

58 18.3 19.8 29.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.80

3000

2500

2000

1500

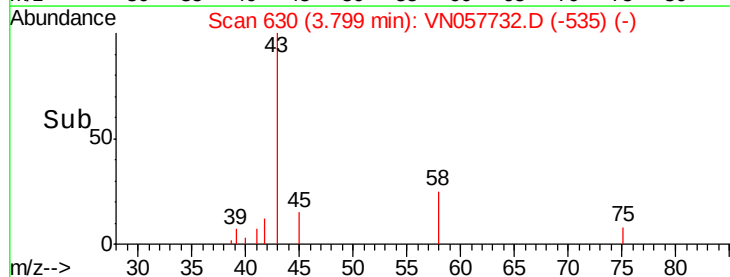
1000

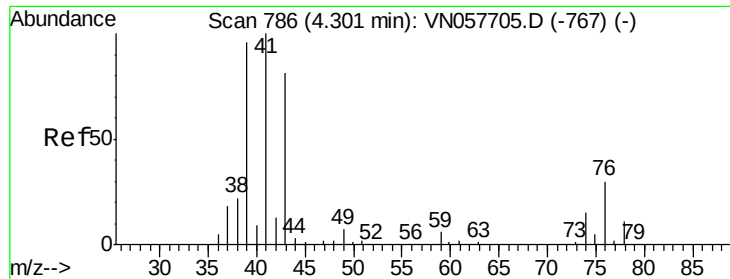
500

0

3.75 3.80 3.85

Time-->

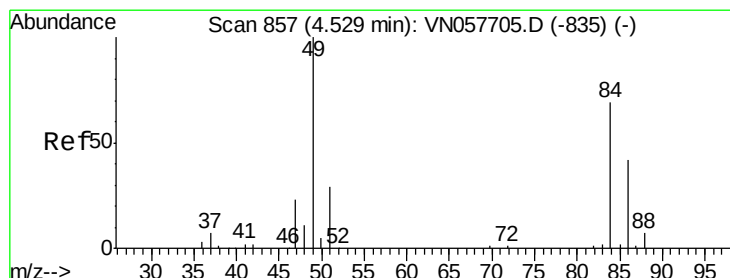
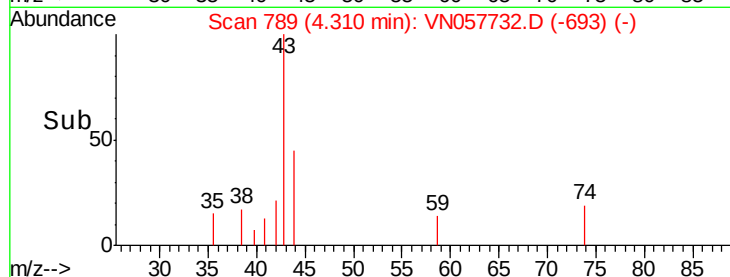
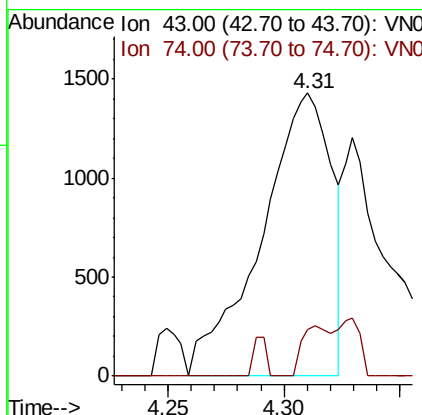
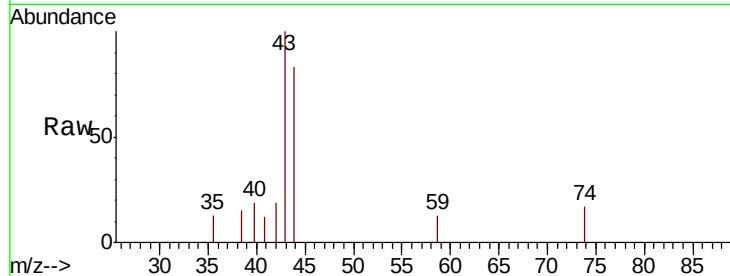




#18
Methyl Acetate
Concen: 0.778 ug/l
RT: 4.31 min Scan# 789
Delta R.T. 0.01 min
Lab File: VN057732.D
Acq: 6 Sep 2019 22:39

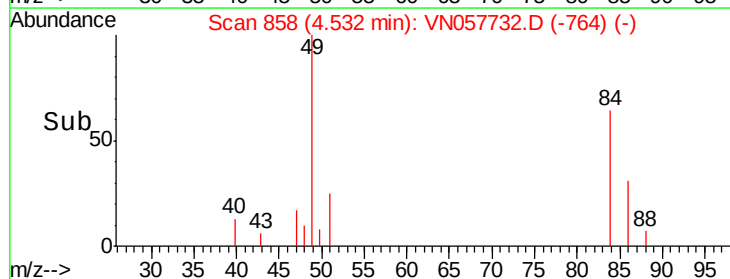
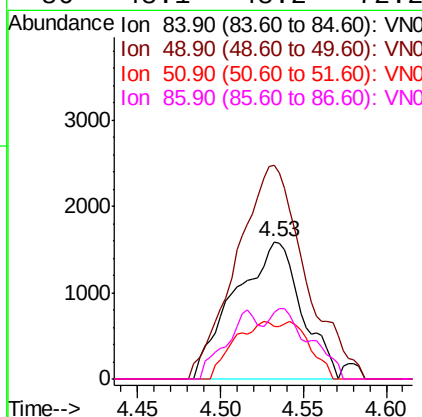
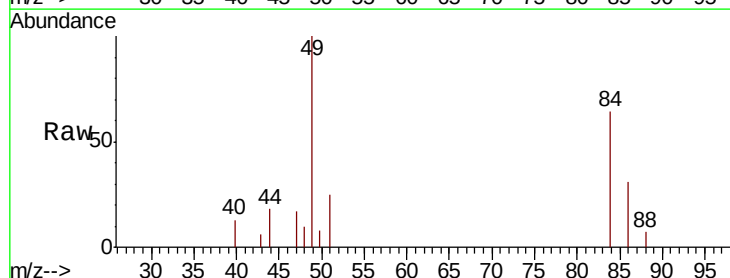
Instrument :
MSVOA_N
ClientSampleId :
PAR-12-C1-(3.5)

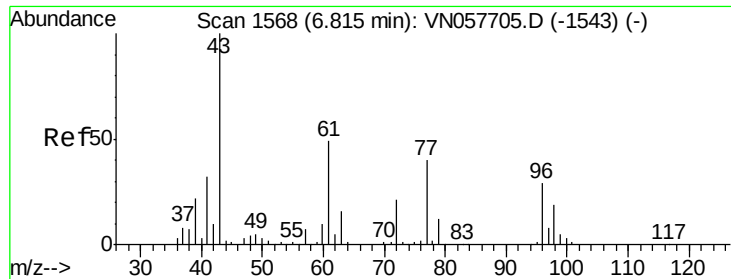
Tgt Ion: 43 Resp: 3009
Ion Ratio Lower Upper
43 100
74 7.2 15.3 22.9#



#20
Methylene Chloride
Concen: 1.451 ug/l
RT: 4.53 min Scan# 858
Delta R.T. 0.00 min
Lab File: VN057732.D
Acq: 6 Sep 2019 22:39

Tgt Ion: 84 Resp: 4460
Ion Ratio Lower Upper
84 100
49 155.6 115.0 172.6
51 38.5 33.8 50.8
86 48.1 48.2 72.2#





#25

2-Butanone

Concen: 0.338 ug/l

RT: 6.82 min Scan# 1569

Delta R.T. 0.00 min

Lab File: VN057732.D

Acq: 6 Sep 2019 22:39

Instrument :

MSVOA_N

ClientSampleId :

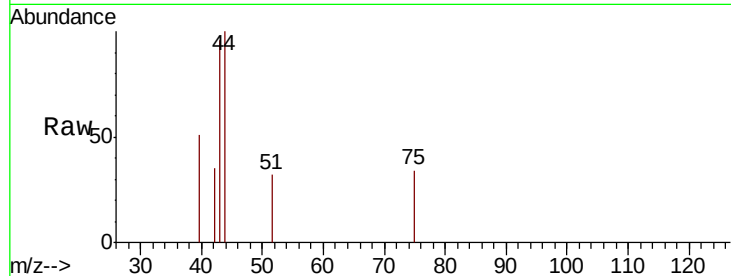
PAR-12-C1-(3.5)

Tgt Ion: 43 Resp: 688

Ion Ratio Lower Upper

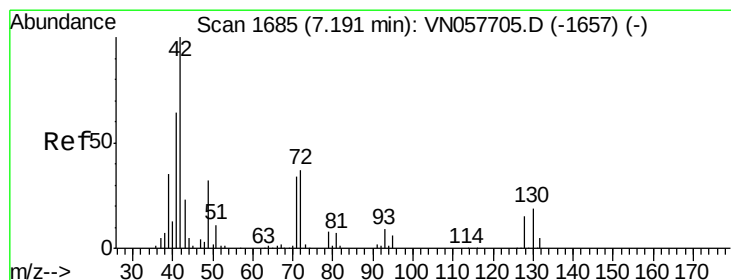
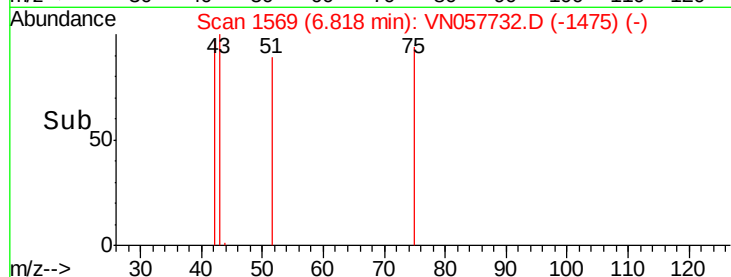
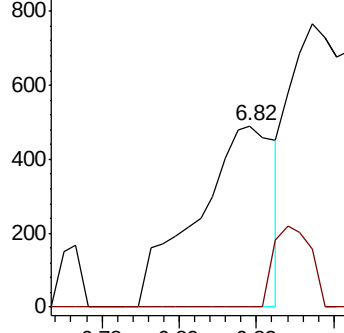
43 100

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



#29

Tetrahydrofuran

Concen: 0.247 ug/l

RT: 7.20 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VN057732.D

Acq: 6 Sep 2019 22:39

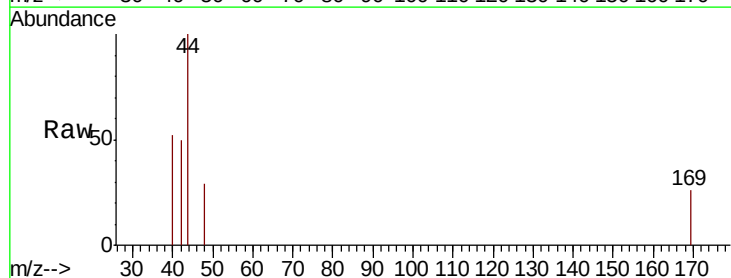
Tgt Ion: 42 Resp: 325

Ion Ratio Lower Upper

42 100

72 0.0 29.2 43.8#

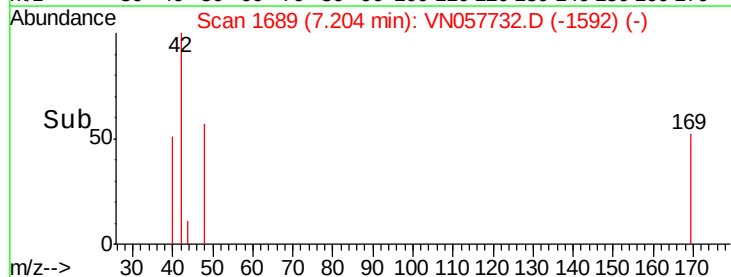
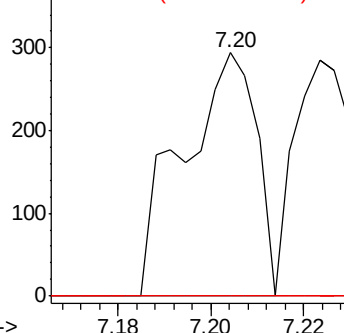
71 0.0 27.0 40.4#

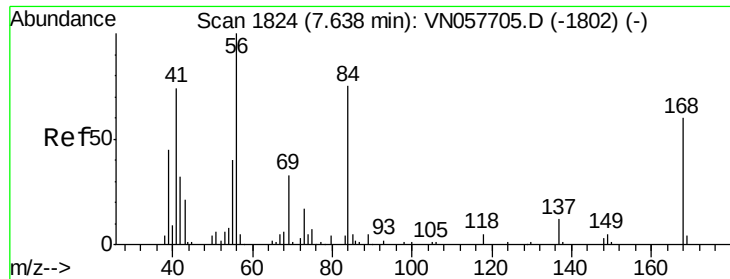


Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0

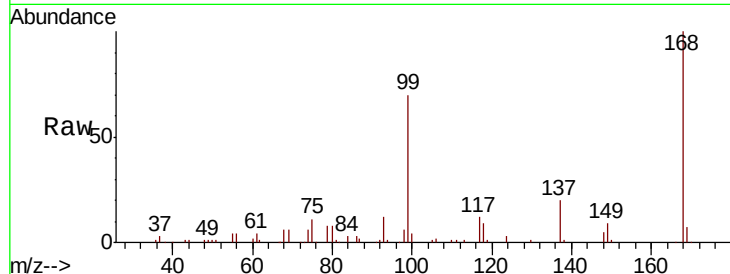




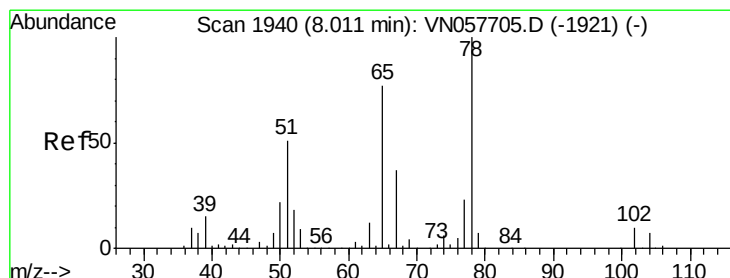
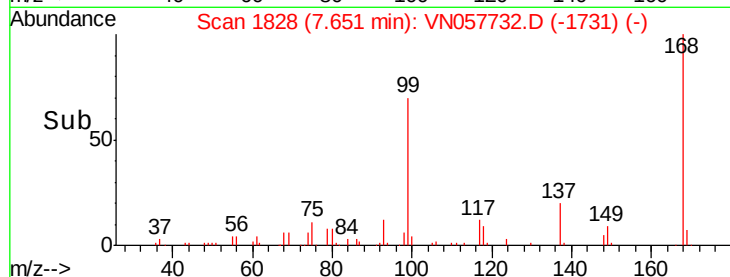
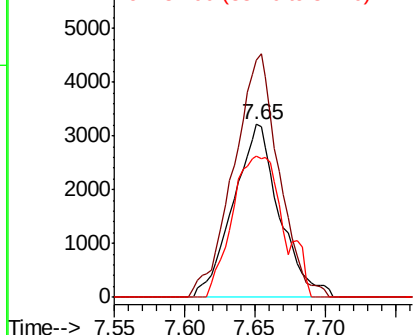
#31
Cyclohexane
Concen: 1.420 ug/l
RT: 7.65 min Scan# 1828
Delta R.T. 0.01 min
Lab File: VN057732.D
Acq: 6 Sep 2019 22:39

Instrument :
MSVOA_N
ClientSampleId :
PAR-12-C1-(3.5)

Tgt Ion: 56 Resp: 7365
Ion Ratio Lower Upper
56 100
69 137.5 26.2 39.2#
84 82.1 59.8 89.8

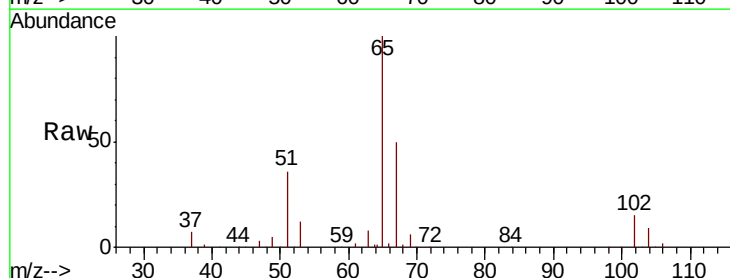


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

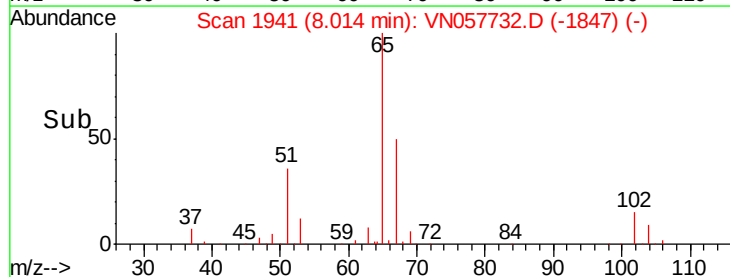
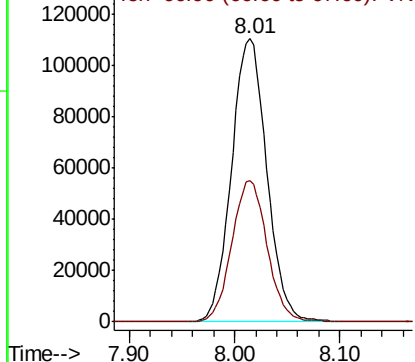


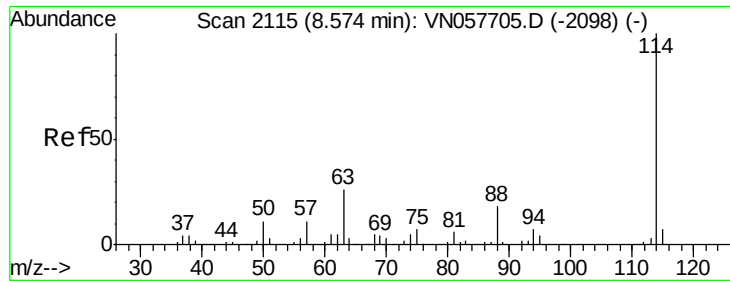
#33
1,2-Dichloroethane-d4
Concen: 55.489 ug/l
RT: 8.01 min Scan# 1941
Delta R.T. 0.00 min
Lab File: VN057732.D
Acq: 6 Sep 2019 22:39

Tgt Ion: 65 Resp: 256399
Ion Ratio Lower Upper
65 100
67 49.9 0.0 98.2



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

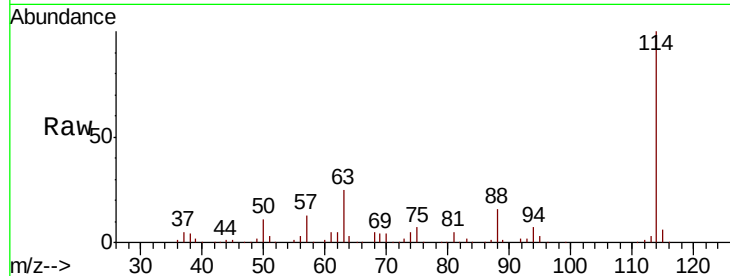




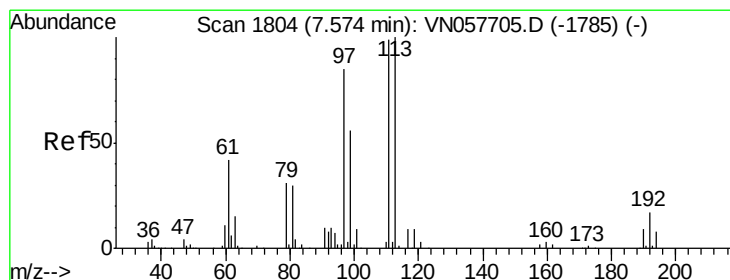
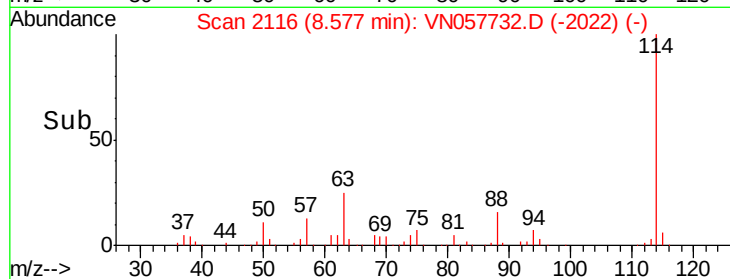
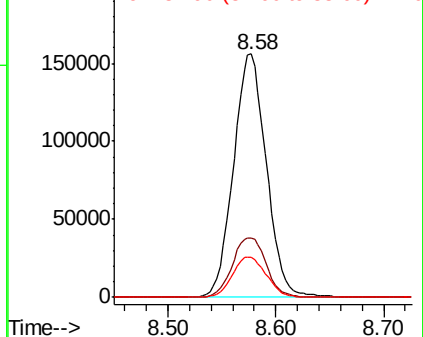
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.58 min Scan# 2116
Delta R.T. 0.00 min
Lab File: VN057732.D
Acq: 6 Sep 2019 22:39

Instrument :
MSVOA_N
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PAR-12-C1-(3.5)

Tgt Ion:114 Resp: 331636
Ion Ratio Lower Upper
114 100
63 24.6 0.0 52.4
88 16.4 0.0 35.4

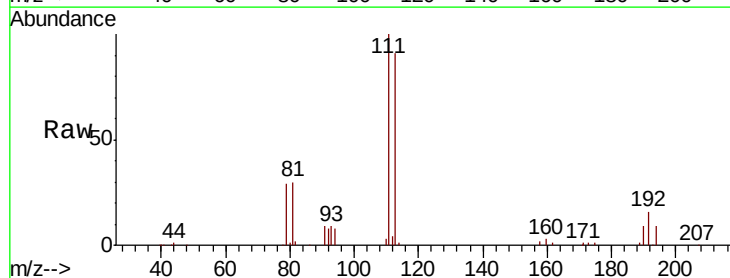


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

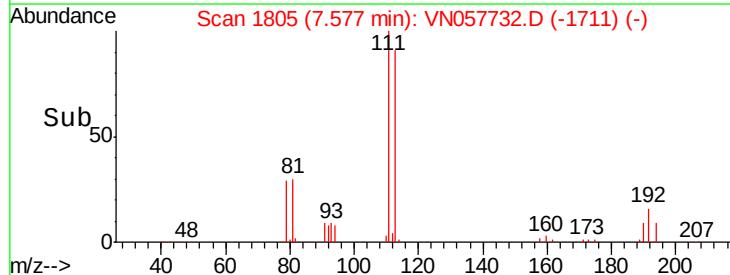
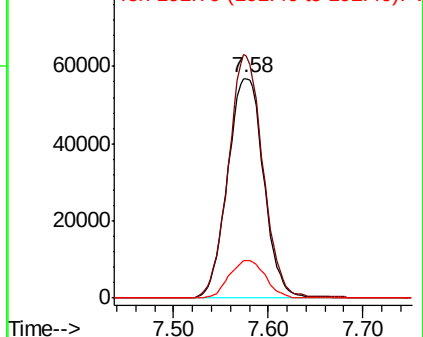


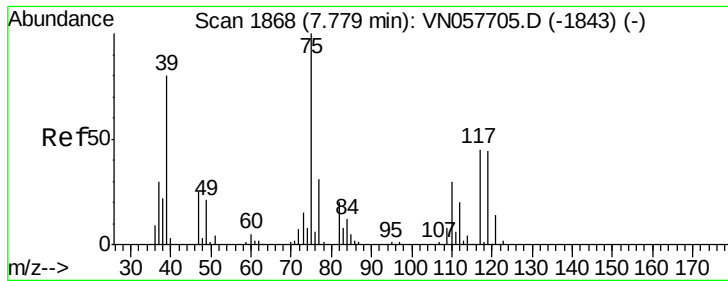
#35
Dibromofluoromethane
Concen: 49.930 ug/l
RT: 7.58 min Scan# 1805
Delta R.T. 0.00 min
Lab File: VN057732.D
Acq: 6 Sep 2019 22:39

Tgt Ion:113 Resp: 150825
Ion Ratio Lower Upper
113 100
111 105.9 82.7 124.1
192 17.2 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

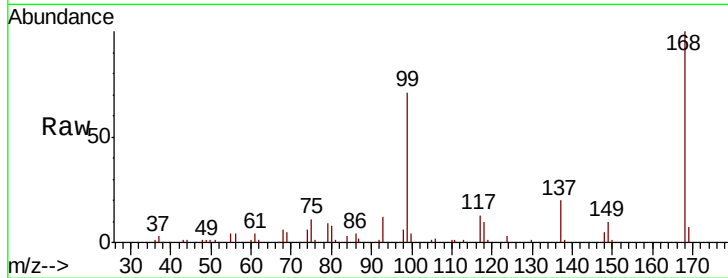




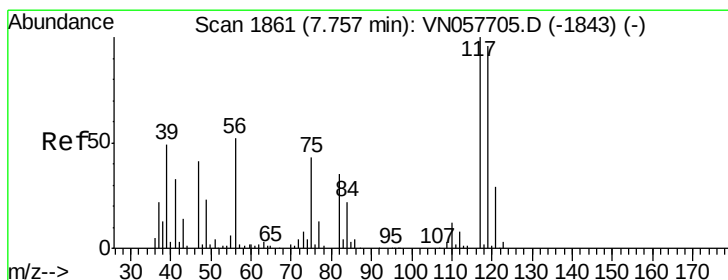
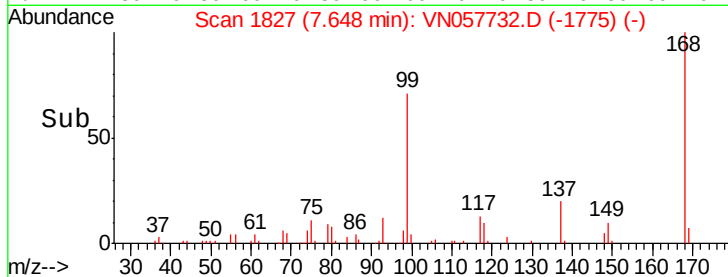
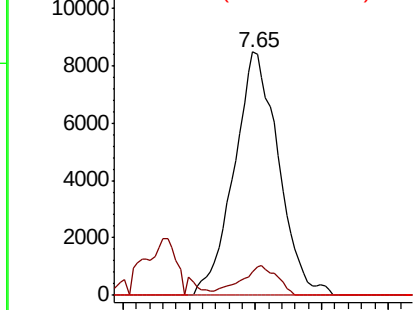
#36
 1,1-Dichloropropene
 Concen: 4.473 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.13 min
 Lab File: VN057732.D
 Acq: 6 Sep 2019 22:39

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-12-C1-(3.5)

Tgt Ion: 75 Resp: 19735
 Ion Ratio Lower Upper
 75 100
 110 10.1 15.0 45.0#
 77 0.0 24.6 37.0#

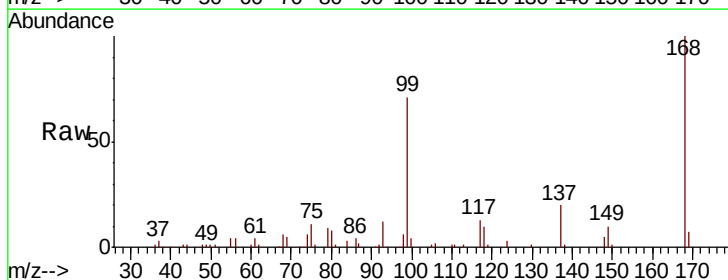


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

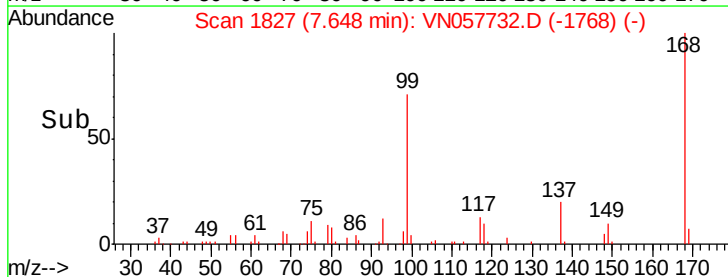
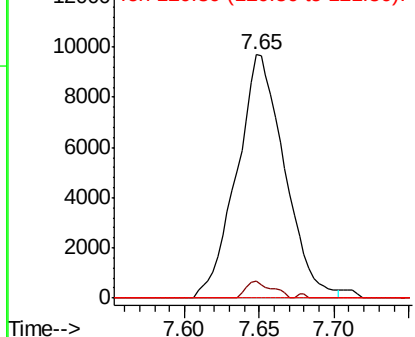


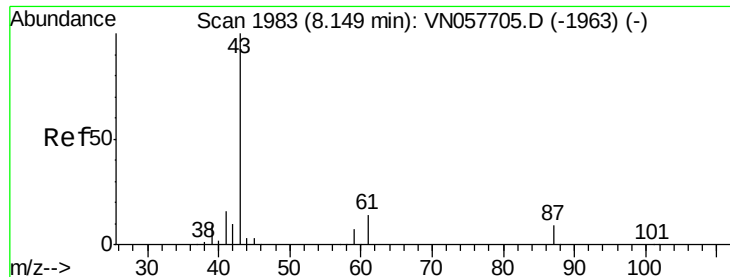
#38
 Carbon Tetrachloride
 Concen: 5.096 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.11 min
 Lab File: VN057732.D
 Acq: 6 Sep 2019 22:39

Tgt Ion: 117 Resp: 21529
 Ion Ratio Lower Upper
 117 100
 119 7.0 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: 9.350 ug/l

RT: 8.15 min Scan# 1984

Delta R.T. 0.00 min

Lab File: VN057732.D

Acq: 6 Sep 2019 22:39

Instrument :

MSVOA_N

ClientSampleId :

PAR-12-C1-(3.5)

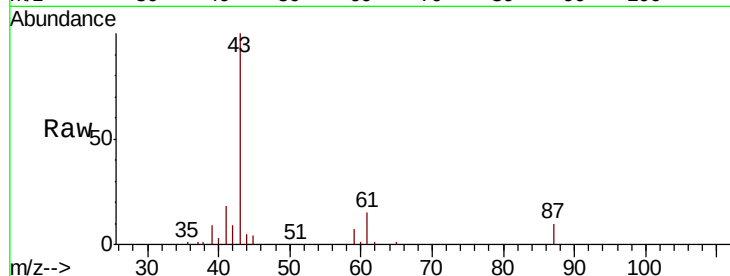
Tgt Ion: 43 Resp: 78606

Ion Ratio Lower Upper

43 100

61 16.1 12.8 19.2

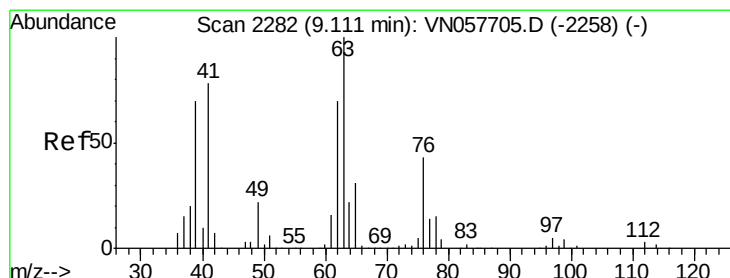
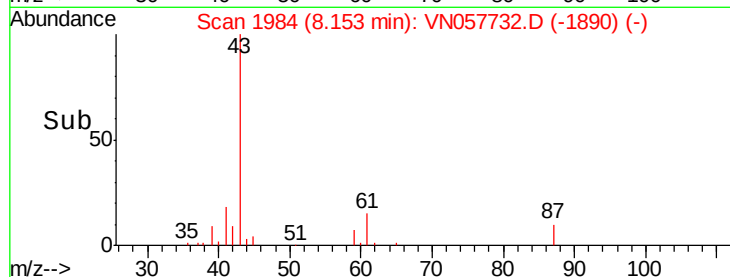
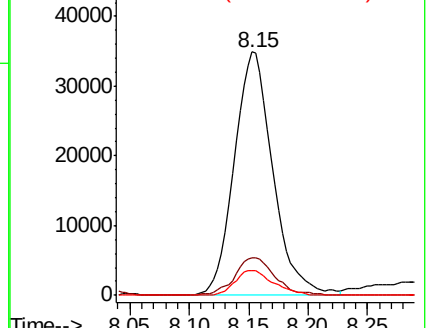
87 10.0 7.8 11.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0

Ion 87.00 (86.70 to 87.70): VN0



#45

1,2-Dichloropropane

Concen: 0.368 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.14 min

Lab File: VN057732.D

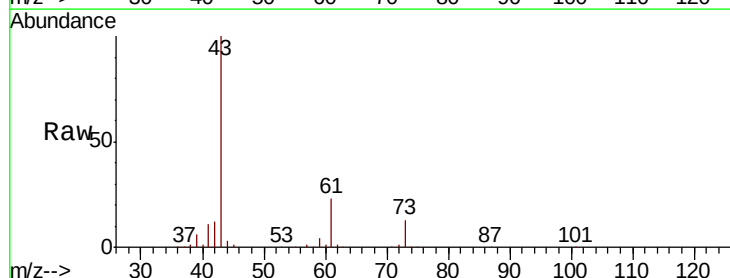
Acq: 6 Sep 2019 22:39

Tgt Ion: 63 Resp: 1286

Ion Ratio Lower Upper

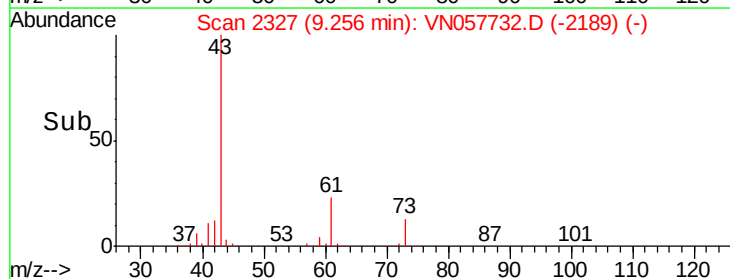
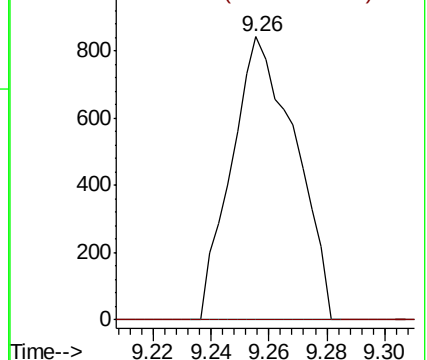
63 100

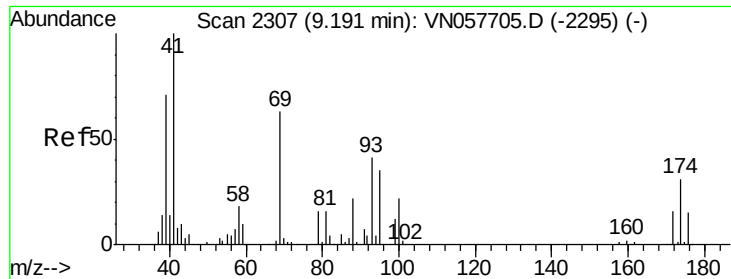
65 0.0 24.5 36.7#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

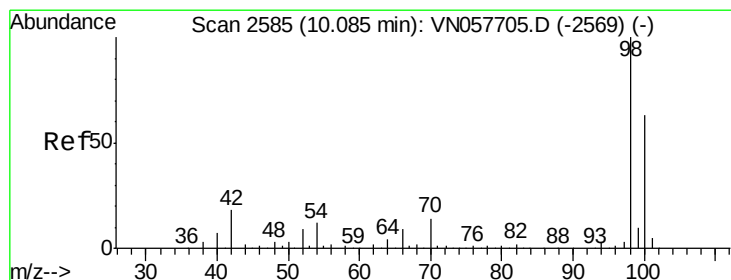
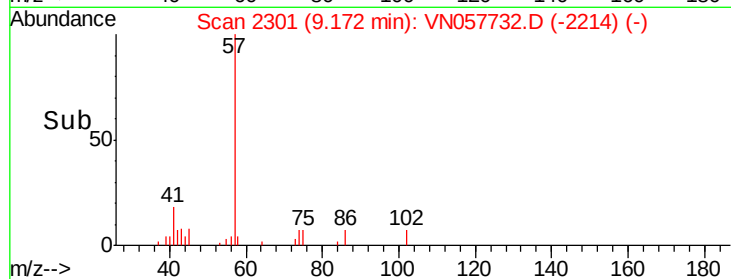
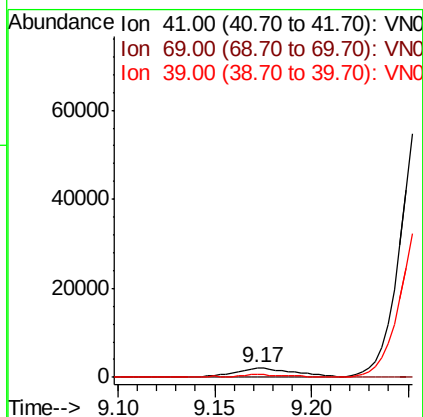
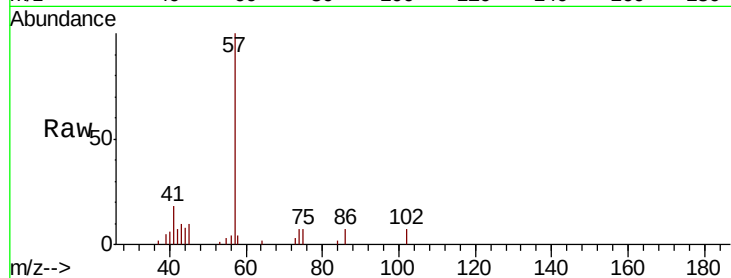




#48
Methyl methacrylate
Concen: 1.059 ug/l
RT: 9.17 min Scan# 2301
Delta R.T. -0.02 min
Lab File: VN057732.D
Acq: 6 Sep 2019 22:39

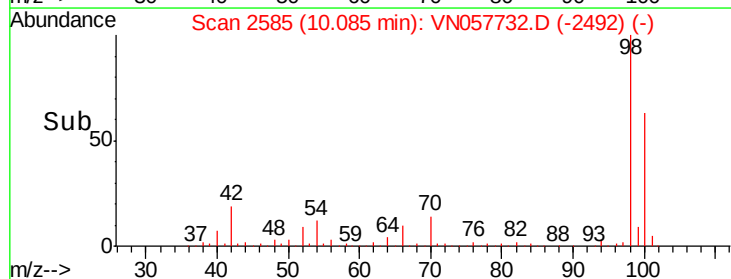
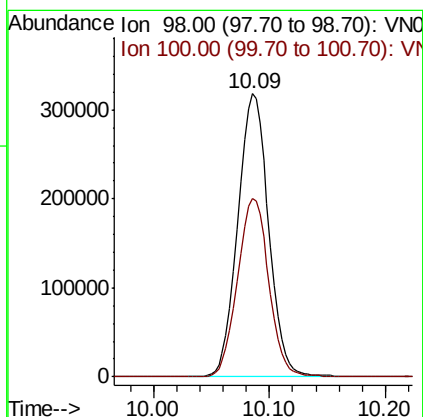
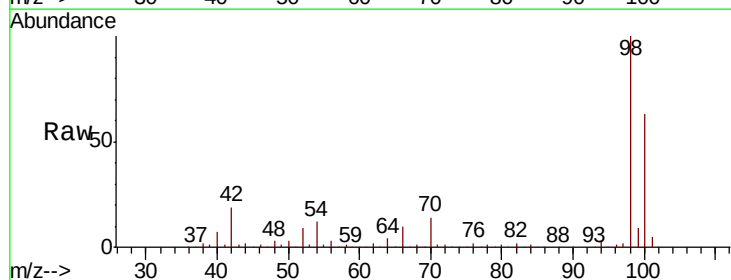
Instrument :
MSVOA_N
ClientSampled :
PAR-12-C1-(3.5)

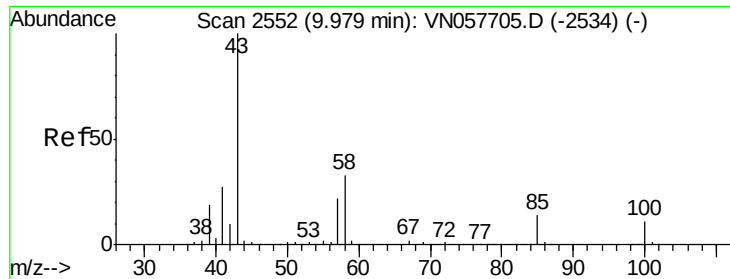
Tgt Ion: 41 Resp: 4579
Ion Ratio Lower Upper
41 100
69 0.0 51.2 76.8#
39 0.0 57.3 85.9#



#50
Toluene-d8
Concen: 52.516 ug/l
RT: 10.09 min Scan# 2585
Delta R.T. 0.00 min
Lab File: VN057732.D
Acq: 6 Sep 2019 22:39

Tgt Ion: 98 Resp: 586829
Ion Ratio Lower Upper
98 100
100 64.0 50.7 76.1





#51

4-Methyl-2-Pentanone

Concen: 0.697 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. 0.00 min

Lab File: VN057732.D

Acq: 6 Sep 2019 22:39

Instrument :

MSVOA_N

ClientSampleId :

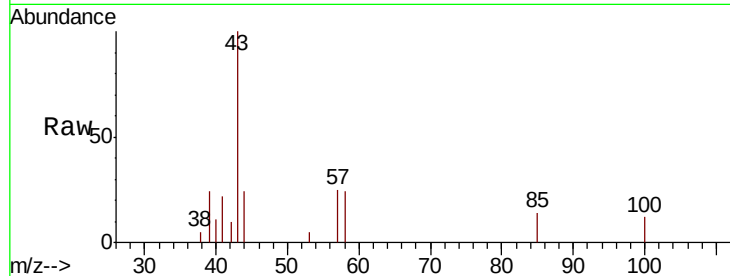
PAR-12-C1-(3.5)

Tgt Ion: 43 Resp: 3254

Ion Ratio Lower Upper

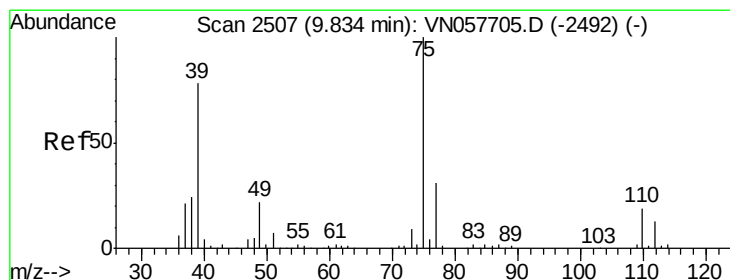
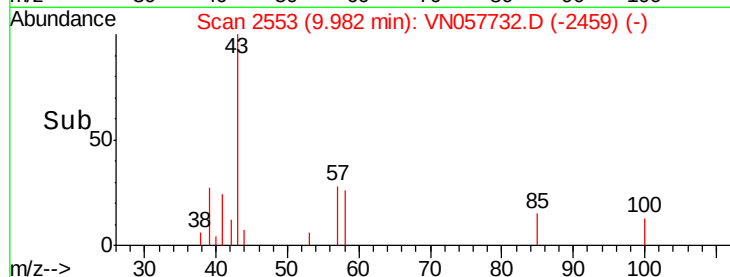
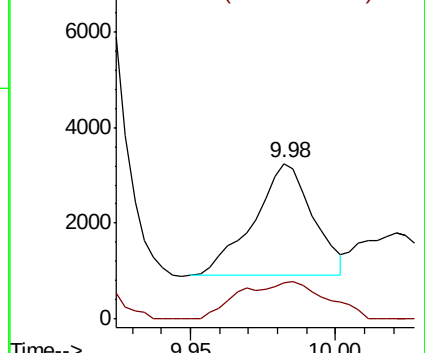
43 100

58 49.8 25.8 38.8#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#54

cis-1,3-Dichloropropene

Concen: 5.534 ug/l

RT: 9.90 min Scan# 2528

Delta R.T. 0.07 min

Lab File: VN057732.D

Acq: 6 Sep 2019 22:39

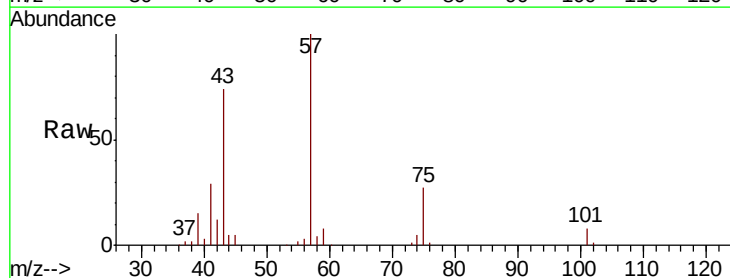
Tgt Ion: 75 Resp: 28539

Ion Ratio Lower Upper

75 100

77 0.0 25.1 37.7#

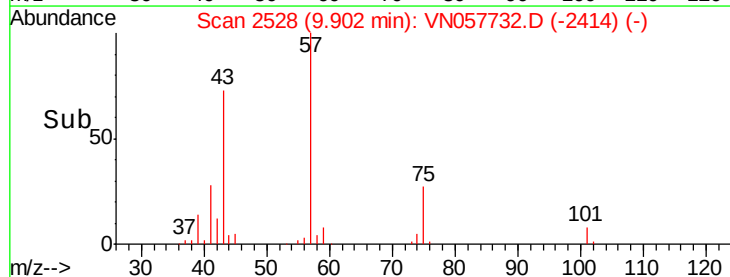
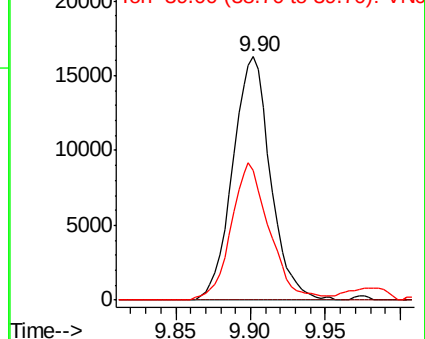
39 53.2 62.4 93.6#

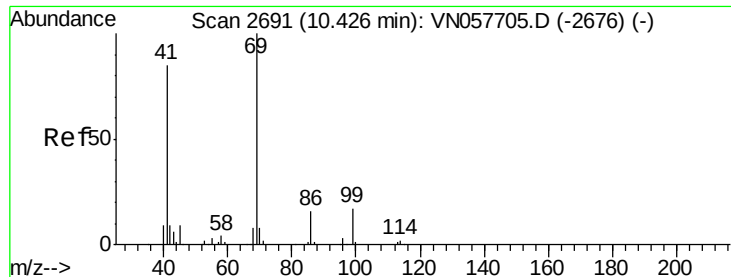


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0

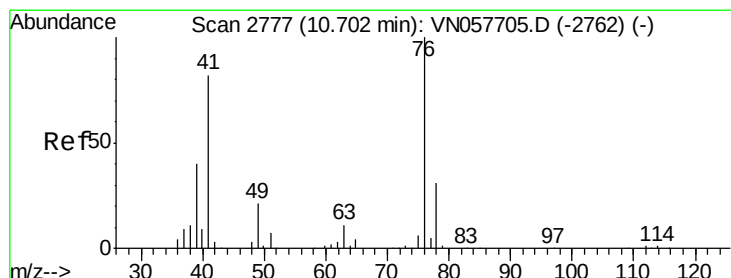
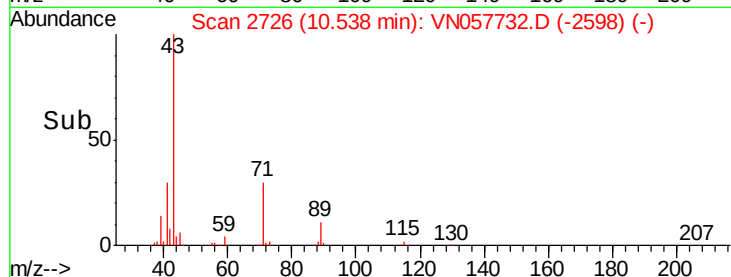
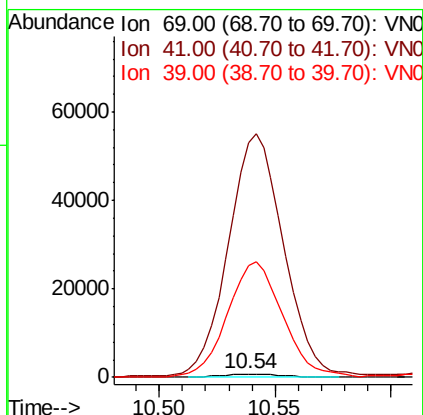
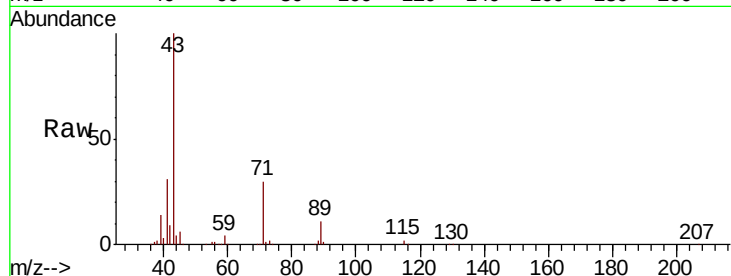




#56
Ethyl methacrylate
Concen: 0.275 ug/l
RT: 10.54 min Scan# 2726
Delta R.T. 0.11 min
Lab File: VN057732.D
Acq: 6 Sep 2019 22:39

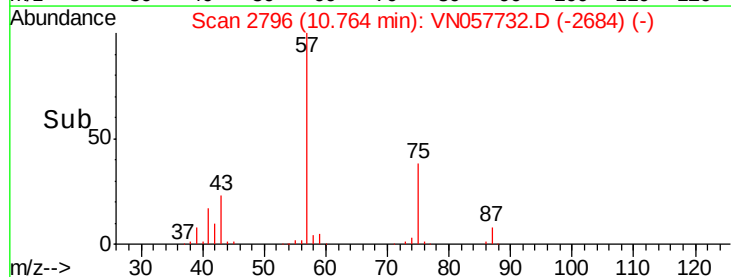
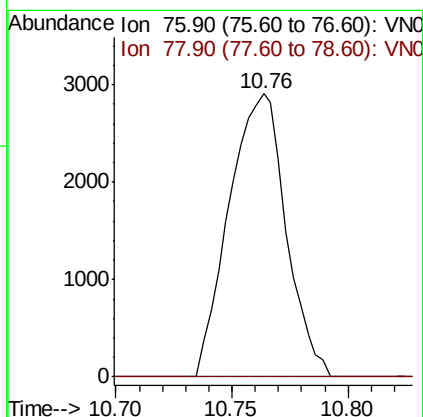
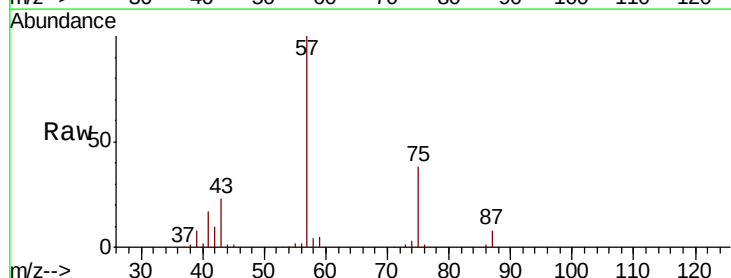
Instrument :
MSVOA_N
ClientSampled :
PAR-12-C1-(3.5)

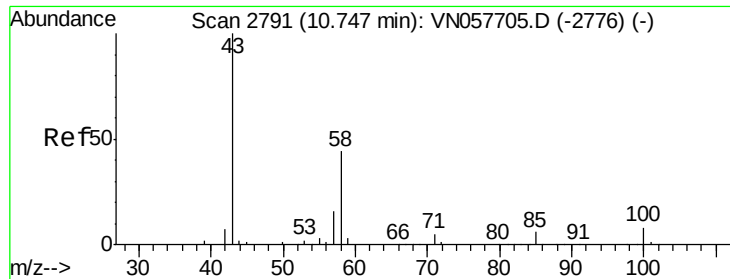
Tgt Ion: 69 Resp: 1337
Ion Ratio Lower Upper
69 100
41 6782.1 69.0 103.4#
39 3241.9 49.2 73.8#



#57
1,3-Dichloropropane
Concen: 0.904 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.06 min
Lab File: VN057732.D
Acq: 6 Sep 2019 22:39

Tgt Ion: 76 Resp: 4940
Ion Ratio Lower Upper
76 100
78 0.0 25.5 38.3#

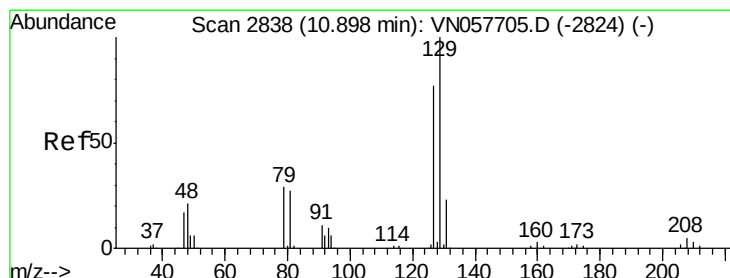
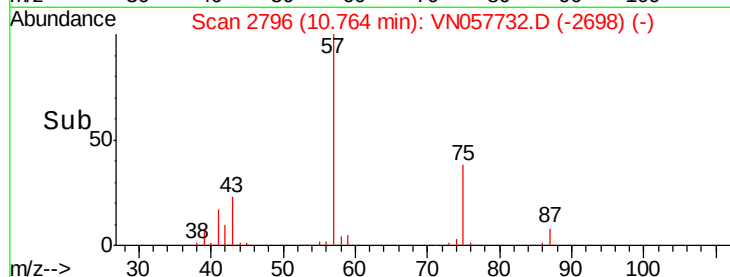
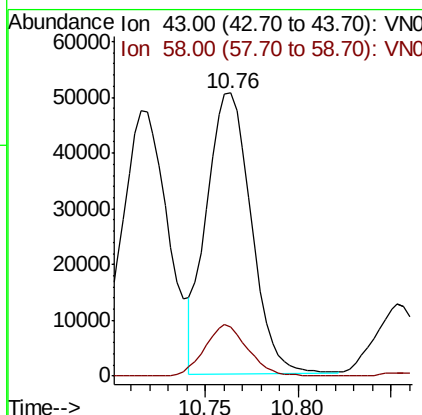
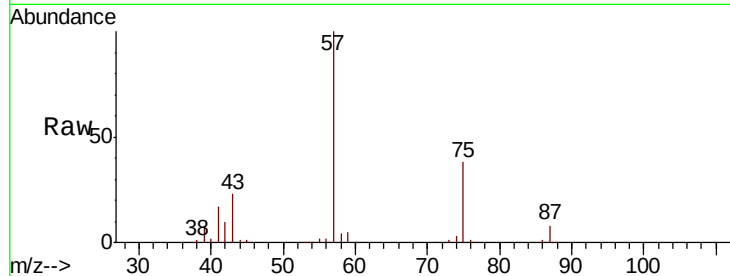




#59
2-Hexanone
Concen: 25.490 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.02 min
Lab File: VN057732.D
Acq: 6 Sep 2019 22:39

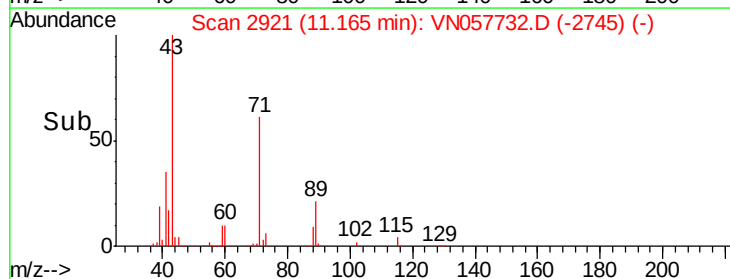
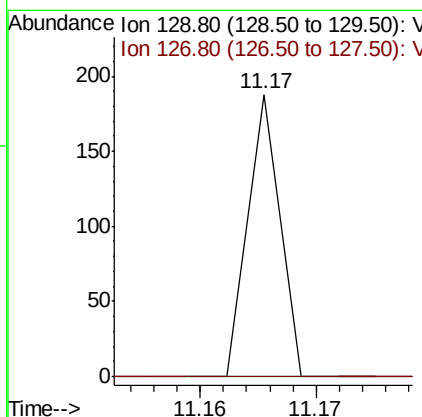
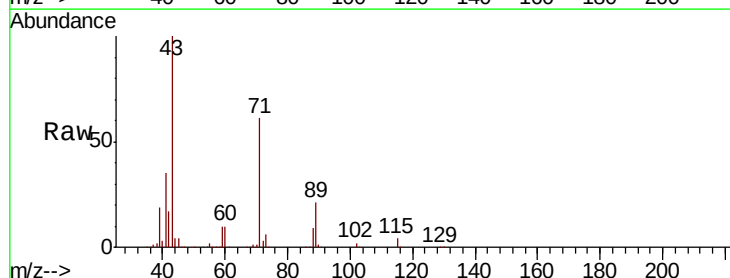
Instrument :
MSVOA_N
ClientSampleId :
PAR-12-C1-(3.5)

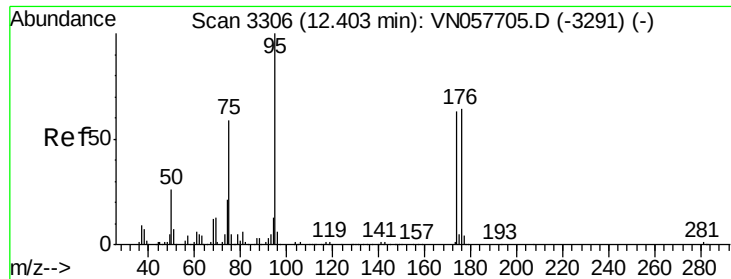
Tgt Ion: 43 Resp: 83923
Ion Ratio Lower Upper
43 100
58 17.8 22.1 66.5#



#60
Dibromochloromethane
Concen: 1.864 ug/l
RT: 11.17 min Scan# 2921
Delta R.T. 0.27 min
Lab File: VN057732.D
Acq: 6 Sep 2019 22:39

Tgt Ion: 129 Resp: 36
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#





#62

4-Bromofluorobenzene

Concen: 47.023 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.00 min

Lab File: VN057732.D

Acq: 6 Sep 2019 22:39

Instrument :

MSVOA_N

ClientSampleId :

PAR-12-C1-(3.5)

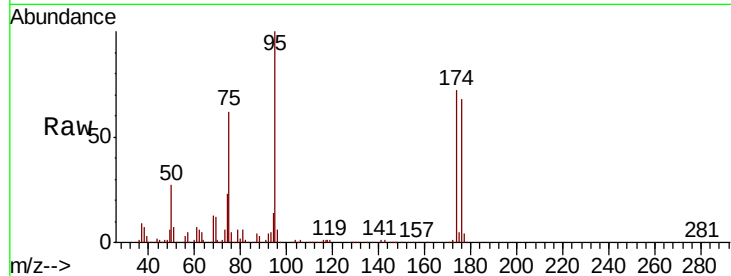
Tgt Ion: 95 Resp: 218247

Ion Ratio Lower Upper

95 100

174 69.4 0.0 128.0

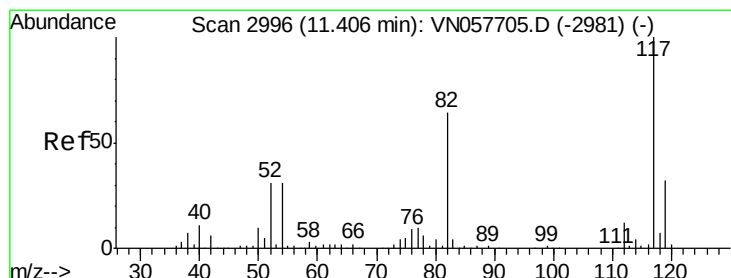
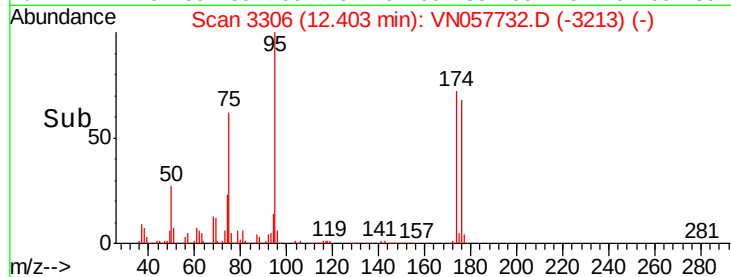
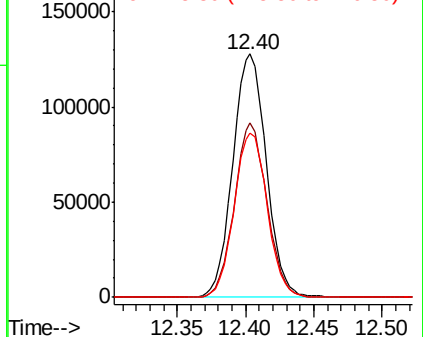
176 66.7 0.0 128.0



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: VN057732.D

Acq: 6 Sep 2019 22:39

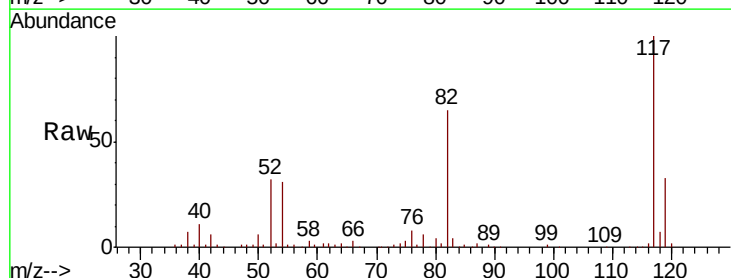
Tgt Ion: 117 Resp: 304851

Ion Ratio Lower Upper

117 100

82 64.5 51.4 77.0

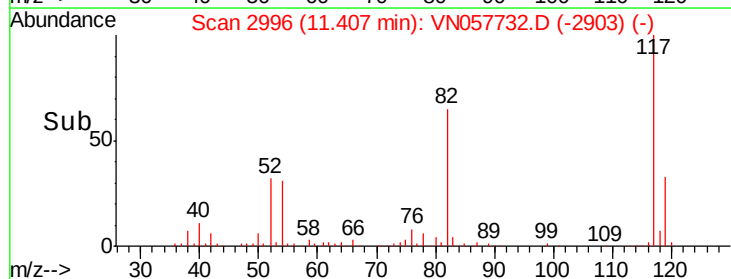
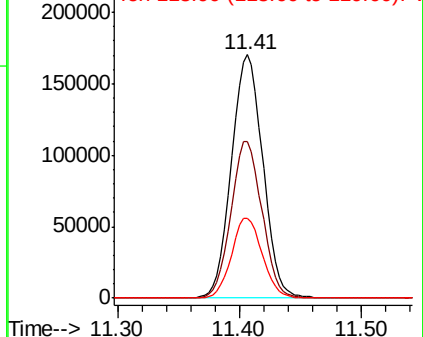
119 32.9 25.4 38.2

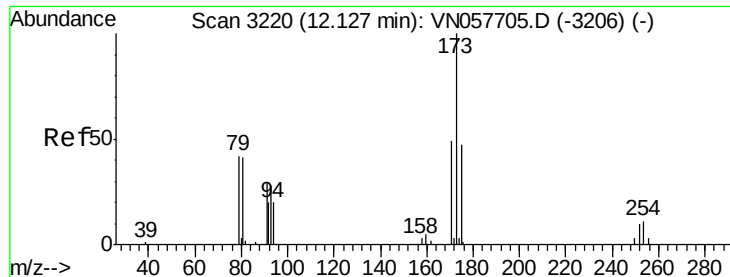


Abundance Ion 116.90 (116.60 to 117.60): VN057705.D (-2981) (-)

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: 3.481 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.27 min

Lab File: VN057732.D

Acq: 6 Sep 2019 22:39

Instrument :

MSVOA_N

ClientSampleId :

PAR-12-C1-(3.5)

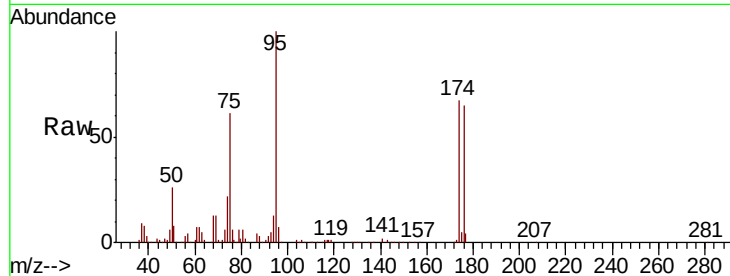
Tgt Ion:173 Resp: 529

Ion Ratio Lower Upper

173 100

175 1807.0 24.6 73.8#

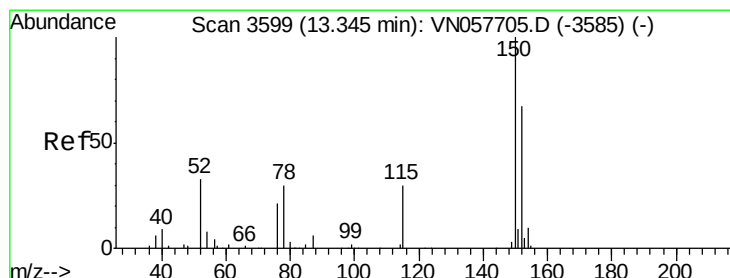
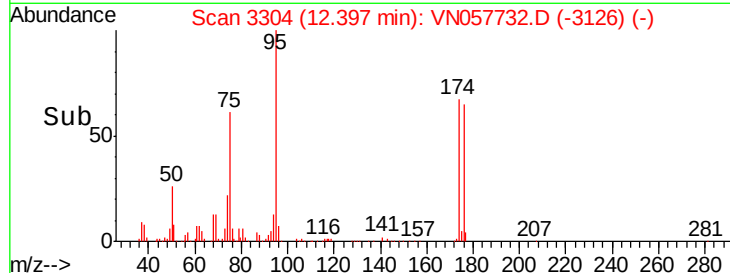
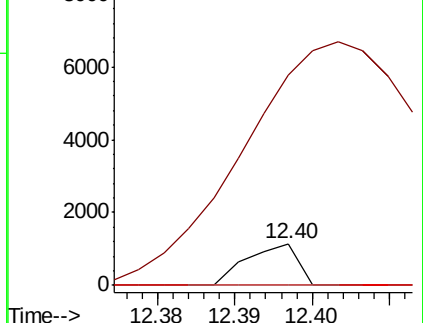
254 0.0 0.0 0.0



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# 3600

Delta R.T. 0.00 min

Lab File: VN057732.D

Acq: 6 Sep 2019 22:39

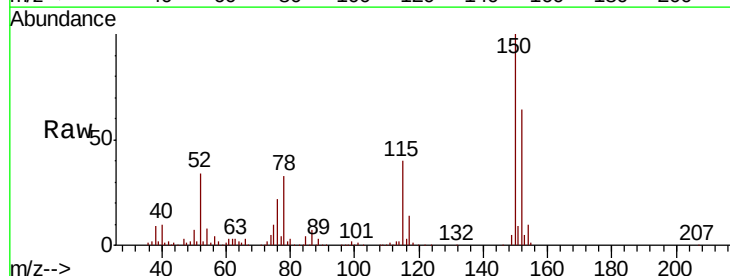
Tgt Ion:152 Resp: 155381

Ion Ratio Lower Upper

152 100

115 64.3 33.8 101.3

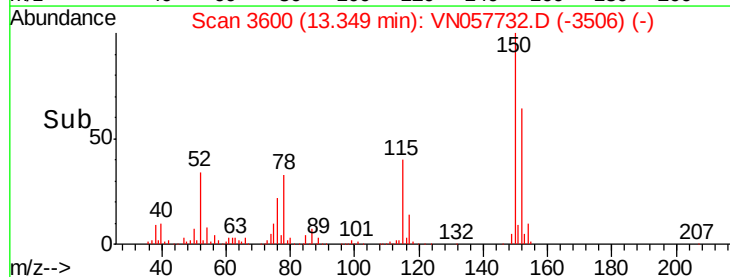
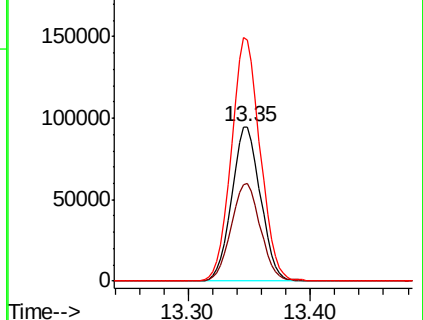
150 157.7 0.0 345.4

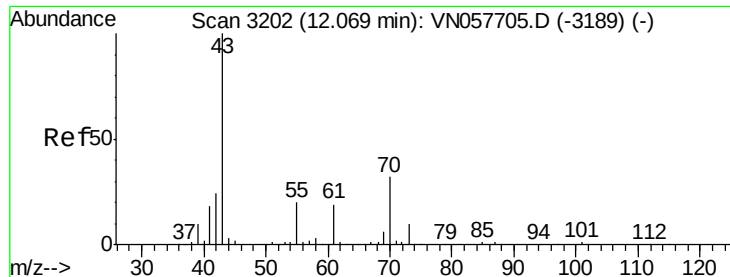


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.431 ug/l

RT: 12.04 min Scan# 3192

Delta R.T. -0.03 min

Lab File: VN057732.D

Acq: 6 Sep 2019 22:39

Instrument :

MSVOA_N

ClientSampleId :

PAR-12-C1-(3.5)

Tgt Ion: 43 Resp: 2956

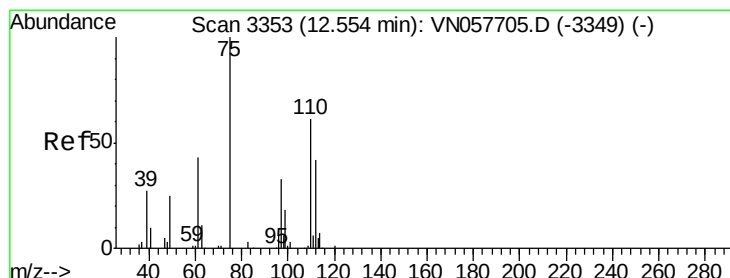
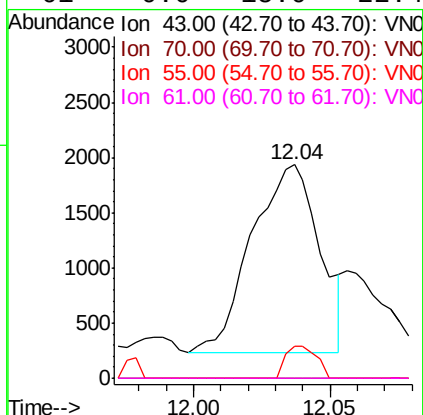
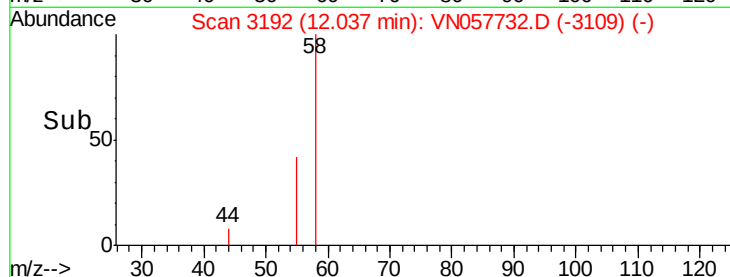
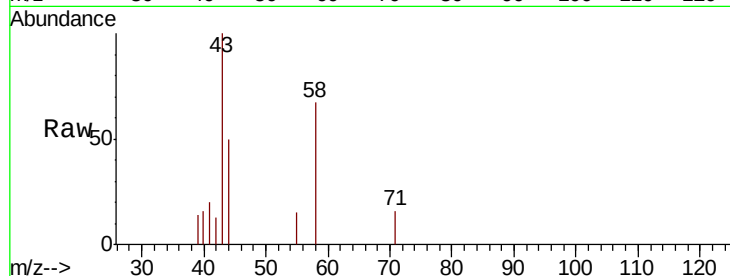
Ion Ratio Lower Upper

43 100

70 0.0 26.1 39.1#

55 7.8 16.3 24.5#

61 0.0 15.0 22.4#



#76

1,2,3-Trichloropropane

Concen: 37.651 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. -0.15 min

Lab File: VN057732.D

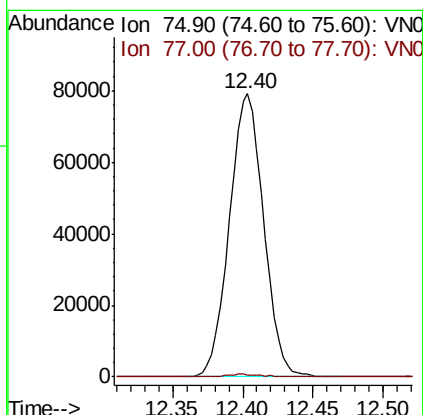
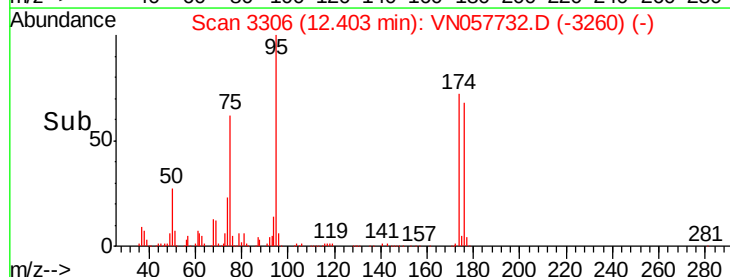
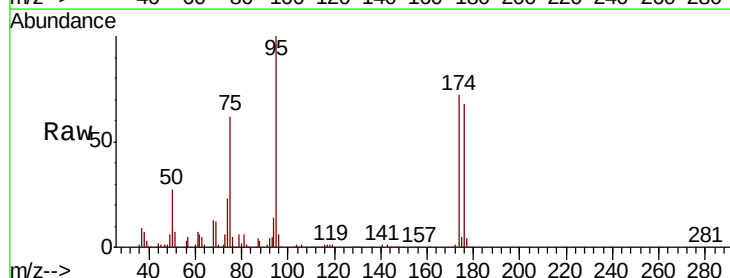
Acq: 6 Sep 2019 22:39

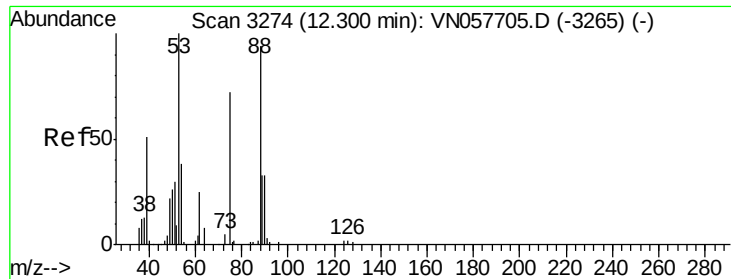
Tgt Ion: 75 Resp: 134345

Ion Ratio Lower Upper

75 100

77 0.9 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 117.096 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.10 min
 Lab File: VN057732.D
 Acq: 6 Sep 2019 22:39

Instrument :
 MSVOA_N
 ClientSampleId :
 PAR-12-C1-(3.5)

Tgt Ion: 75 Resp: 134345
 Ion Ratio Lower Upper
 75 100
 53 0.0 107.0 160.6#
 89 0.0 36.5 54.7#

