

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071619\
 Data File : VN056774.D
 Acq On : 16 Jul 2019 17:19
 Operator : JC/SP
 Sample : PB121398ZHE#11
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB121398ZHE#11

Quant Time: Jul 17 01:10:43 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 16 07:03:34 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	257300	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	461559	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	499411	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	181867	50.00	ug/l	0.00

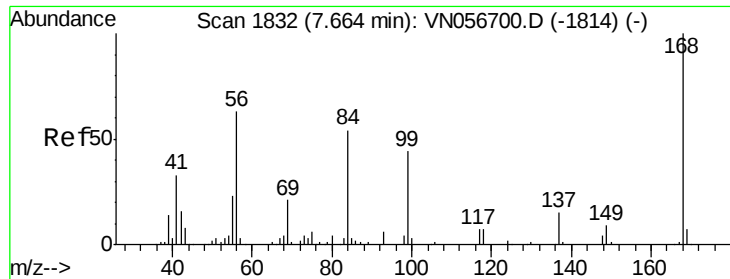
System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	153295	53.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.72%	
35) Dibromofluoromethane	7.59	113	138156	48.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.20%	
50) Toluene-d8	10.09	98	579067	52.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.40%	
62) 4-Bromofluorobenzene	12.40	95	215824	57.69	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.38%	

Target Compounds

					Qvalue	
16) Acetone	3.83	43	8775	6.691	ug/l	99
18) Methyl Acetate	4.33	43	7106	1.467	ug/l #	81
20) Methylene Chloride	4.55	84	2376	0.829	ug/l	90
25) 2-Butanone	6.85	43	4351	2.269	ug/l	98
29) Tetrahydrofuran	7.23	42	535	0.428	ug/l #	35
31) Cyclohexane	7.66	56	4229	0.929	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	16625	3.892	ug/l #	48
38) Carbon Tetrachloride	7.67	117	21623	5.398	ug/l #	16
43) Isopropyl Acetate	8.17	43	15450	2.335	ug/l	96
45) 1,2-Dichloropropane	9.27	63	1714	0.493	ug/l #	45
48) Methyl methacrylate	9.18	41	8959	2.799	ug/l #	13
49) 1,4-Dioxane	9.27	88	132	2.010	ug/l #	1
51) 4-Methyl-2-Pentanone	9.98	43	3150	0.735	ug/l	96
54) cis-1,3-Dichloropropene	9.90	75	46173	9.313	ug/l #	59
57) 1,3-Dichloropropane	10.76	76	10314	1.937	ug/l #	42
59) 2-Hexanone	10.76	43	140148	45.569	ug/l #	52
68) m/p-Xylenes	11.63	106	3266	0.487	ug/l	94
71) Bromoform	12.40	173	1743	0.609	ug/l #	1
74) N-amyl acetate	11.88	43	11921	2.183	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	100948	25.378	ug/l #	100
79) 2-Chlorotoluene	12.40	91	594	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	100948	78.377	ug/l #	13
95) Naphthalene	15.14	128	128	4.538	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN056774.D

Acq: 16 Jul 2019 17:19

Instrument :

MSVOA_N

ClientSampleId :

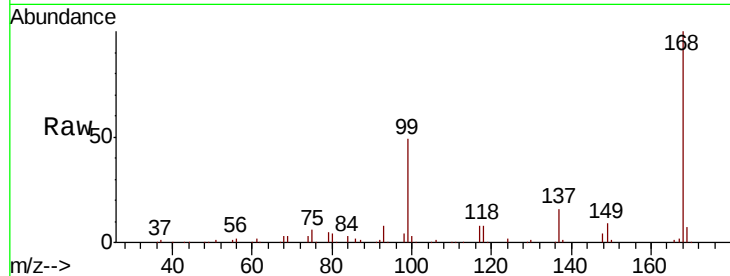
PB121398ZHE#11

Tot Ion:168 Resp: 257300

Ion Ratio Lower Upper

168 100

99 49.3 39.4 59.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

120000

100000

80000

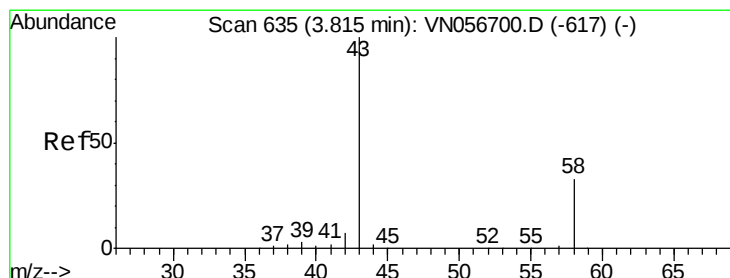
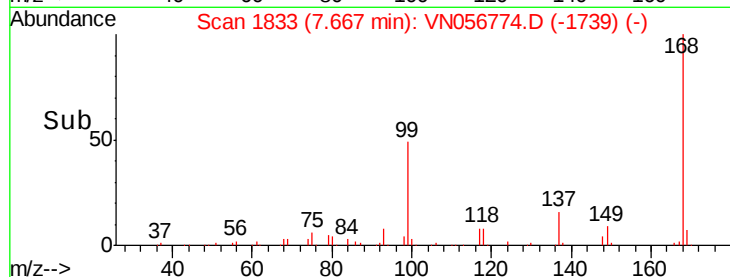
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 6.691 ug/l

RT: 3.83 min Scan# 639

Delta R.T. 0.01 min

Lab File: VN056774.D

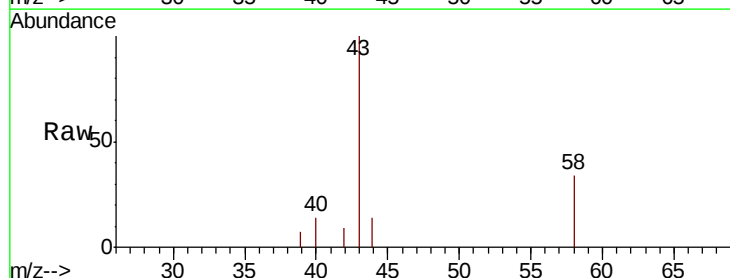
Acq: 16 Jul 2019 17:19

Tgt Ion: 43 Resp: 8775

Ion Ratio Lower Upper

43 100

58 33.9 26.7 40.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.83

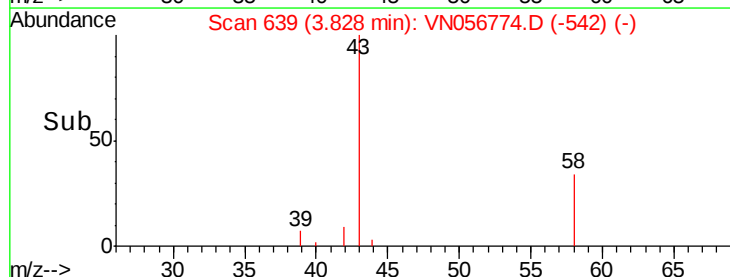
3000

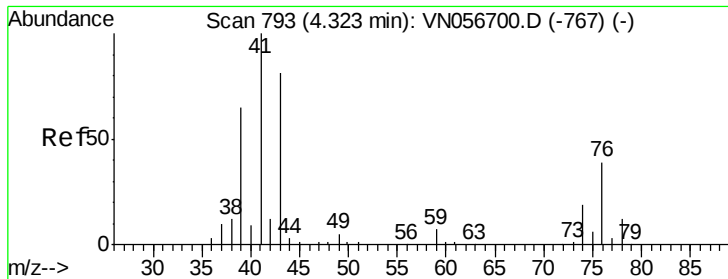
2000

1000

0

Time-->

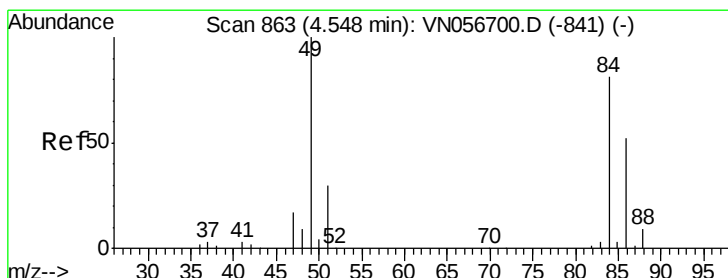
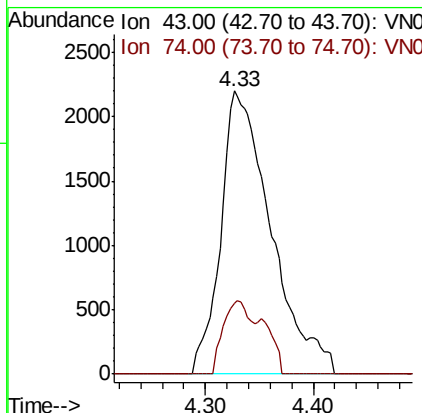
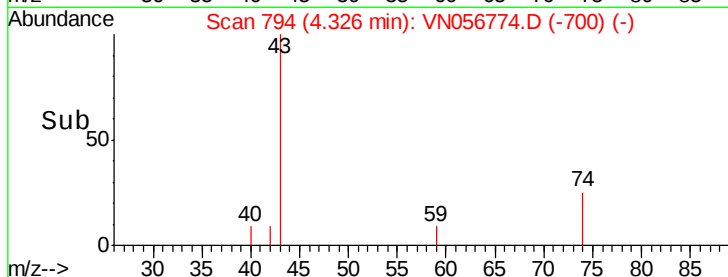
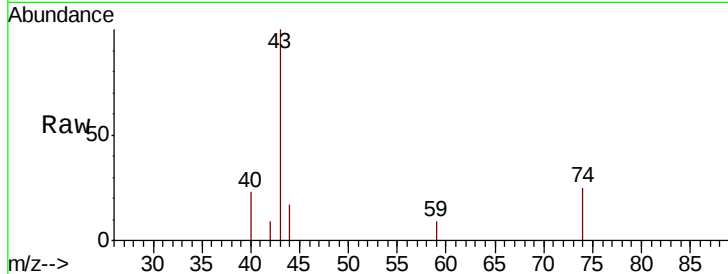




#18
Methyl Acetate
Concen: 1.467 ug/l
RT: 4.33 min Scan# 794
Delta R.T. 0.00 min
Lab File: VN056774.D
Acq: 16 Jul 2019 17:19

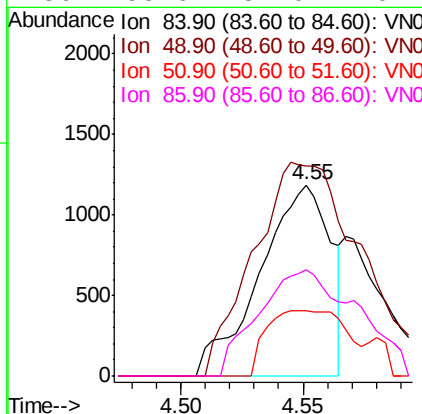
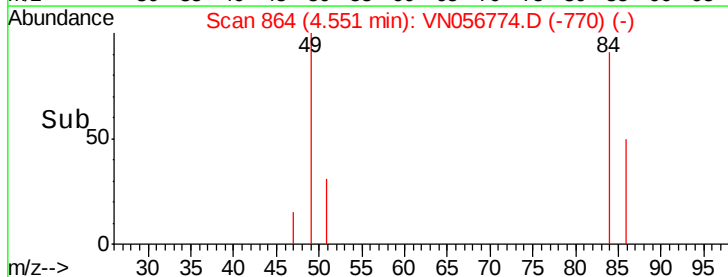
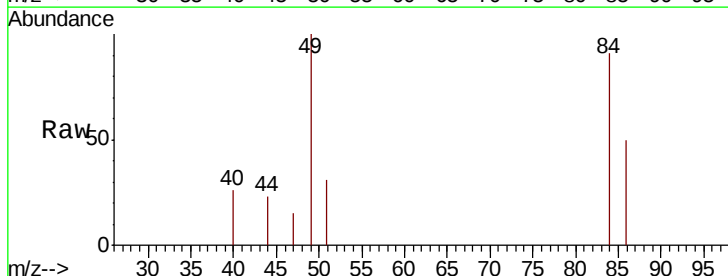
Instrument :
MSVOA_N
ClientSampleId :
PB121398ZHE#11

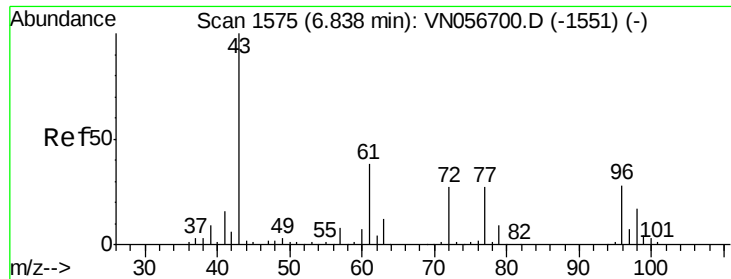
Tot Ion: 43 Resp: 7106
Ion Ratio Lower Upper
43 100
74 14.2 18.9 28.3#



#20
Methylene Chloride
Concen: 0.829 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN056774.D
Acq: 16 Jul 2019 17:19

Tgt Ion: 84 Resp: 2376
Ion Ratio Lower Upper
84 100
49 110.0 98.2 147.4
51 34.0 29.6 44.4
86 55.6 51.0 76.4

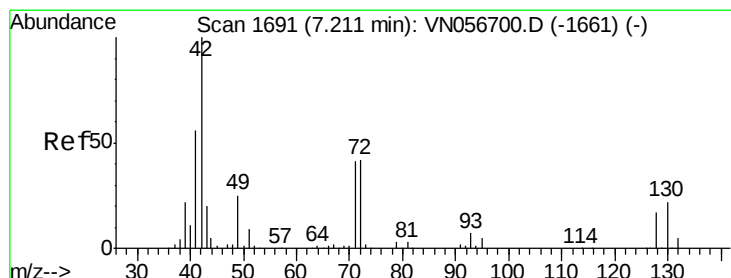
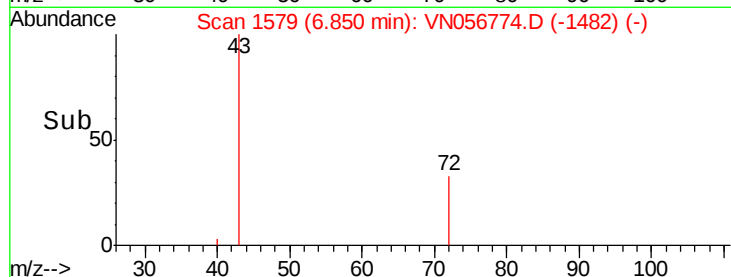
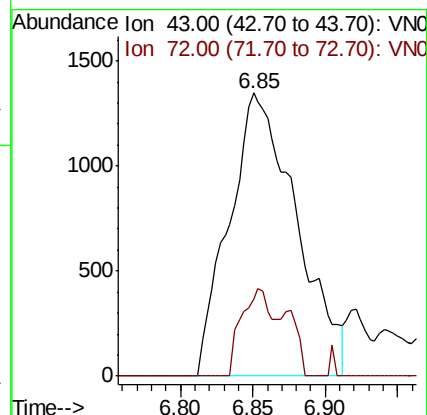
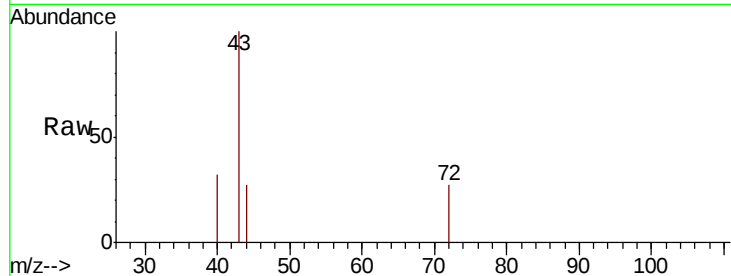




#25
2-Butanone
Concen: 2.269 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.01 min
Lab File: VN056774.D
Acq: 16 Jul 2019 17:19

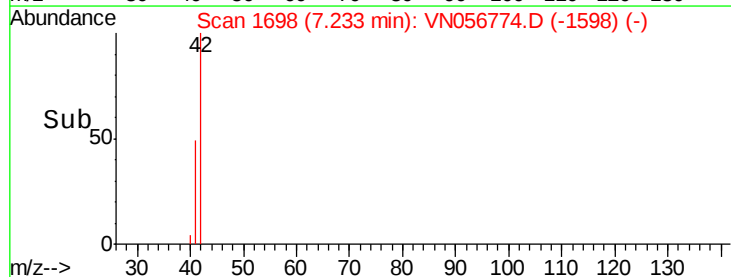
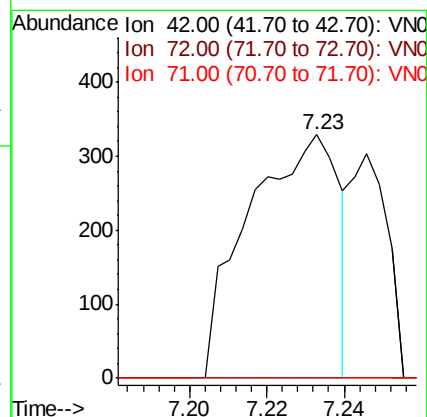
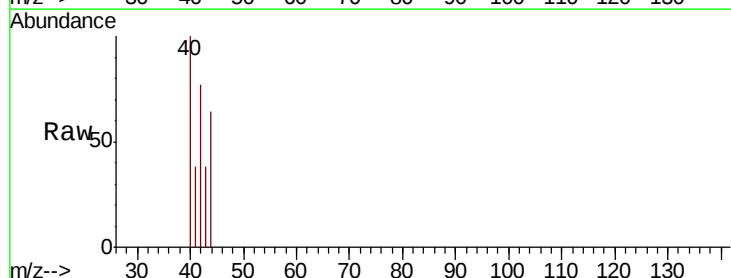
Instrument :
MSVOA_N
ClientSampleId :
PB121398ZHE#11

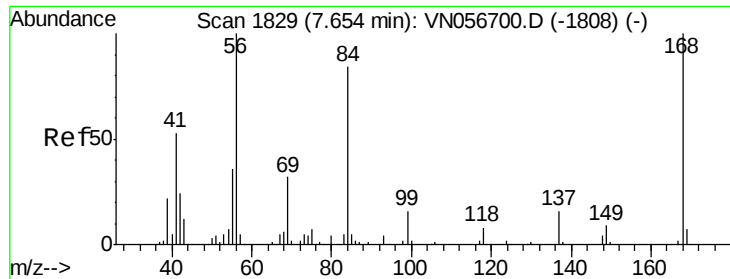
Tot Ion: 43 Resp: 4351
Ion Ratio Lower Upper
43 100
72 27.3 21.2 31.8



#29
Tetrahydrofuran
Concen: 0.428 ug/l
RT: 7.23 min Scan# 1698
Delta R.T. 0.02 min
Lab File: VN056774.D
Acq: 16 Jul 2019 17:19

Tgt Ion: 42 Resp: 535
Ion Ratio Lower Upper
42 100
72 0.0 33.5 50.3#
71 0.0 31.8 47.8#

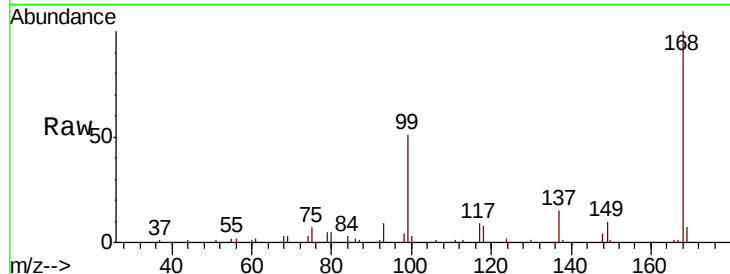




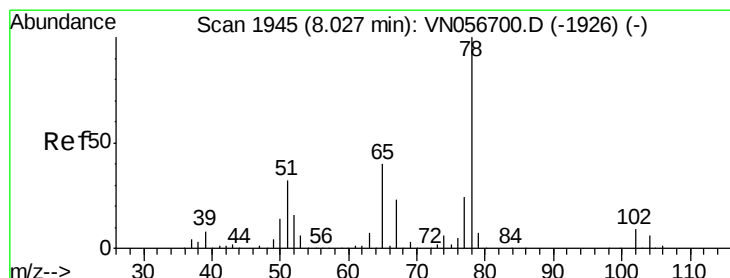
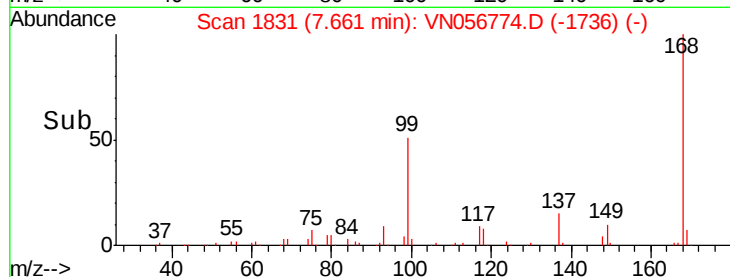
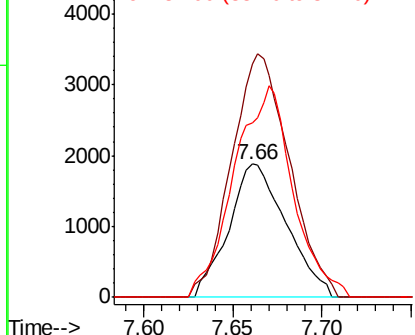
#31
Cyclohexane
Concen: 0.929 ug/l
RT: 7.66 min Scan# 1831
Delta R.T. 0.01 min
Lab File: VN056774.D
Acq: 16 Jul 2019 17:19

Instrument :
MSVOA_N
ClientSampleId :
PB121398ZHE#11

Tot Ion: 56 Resp: 4229
Ion Ratio Lower Upper
56 100
69 175.6 25.8 38.8#
84 130.8 67.4 101.0#

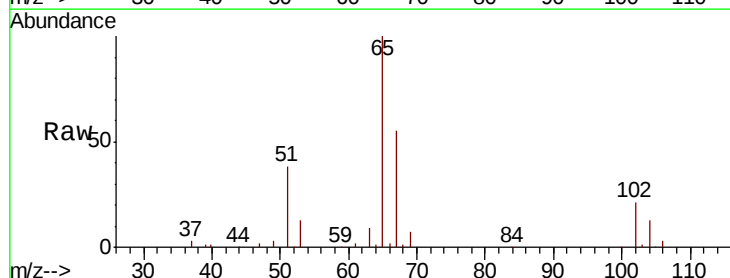


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

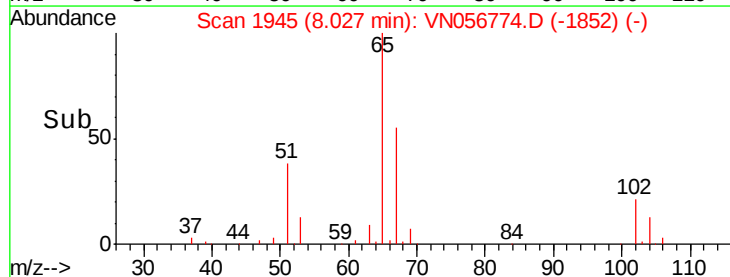
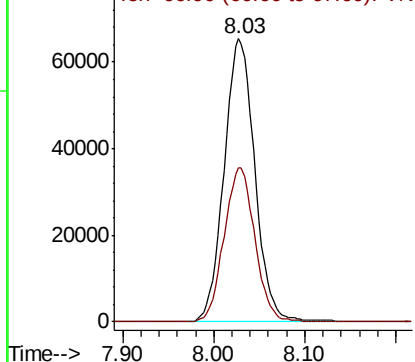


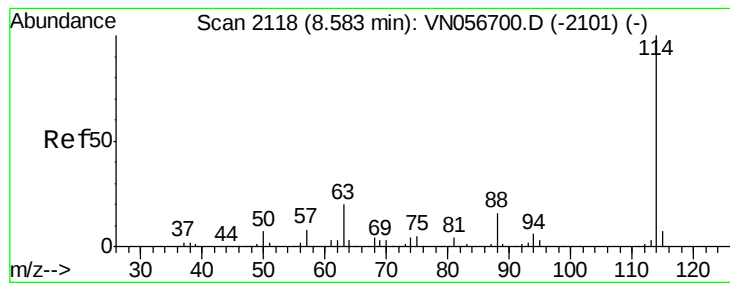
#33
1,2-Dichloroethane-d4
Concen: 53.862 ug/l
RT: 8.03 min Scan# 1945
Delta R.T. -0.00 min
Lab File: VN056774.D
Acq: 16 Jul 2019 17:19

Tgt Ion: 65 Resp: 153295
Ion Ratio Lower Upper
65 100
67 54.5 0.0 109.0



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: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN056774.D

Acq: 16 Jul 2019 17:19

Instrument :

MSVOA_N

ClientSampleId :

PB121398ZHE#11

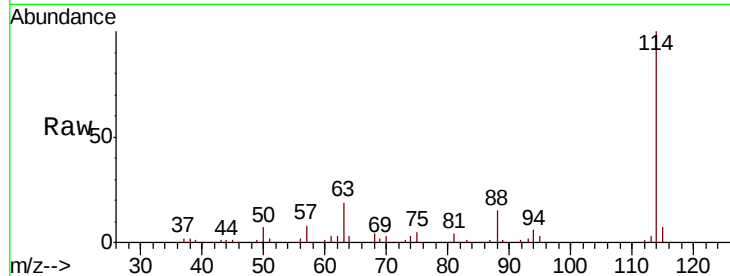
Tot Ion:114 Resp: 461559

Ion Ratio Lower Upper

114 100

63 19.2 0.0 39.4

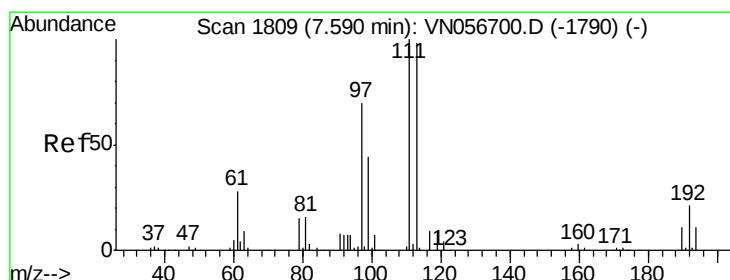
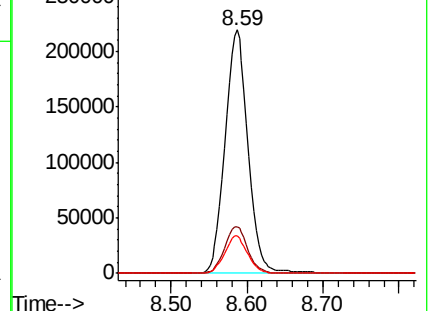
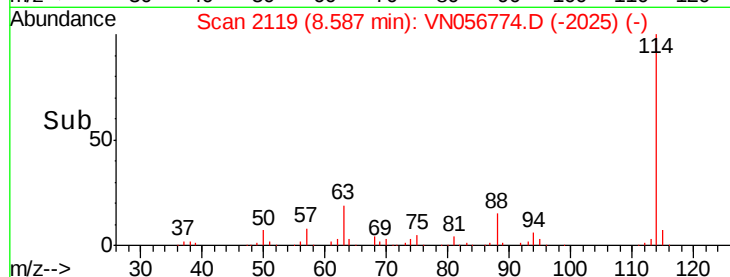
88 15.2 0.0 31.2



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: 48.098 ug/l

RT: 7.59 min Scan# 1809

Delta R.T. -0.00 min

Lab File: VN056774.D

Acq: 16 Jul 2019 17:19

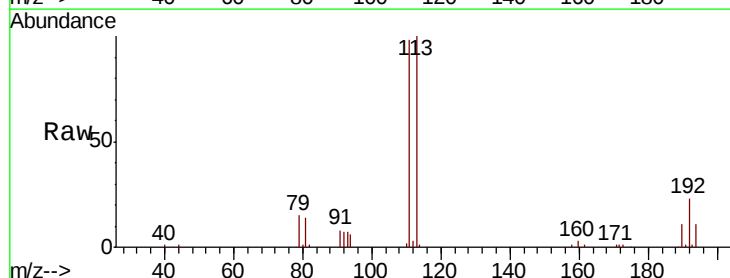
Tgt Ion:113 Resp: 138156

Ion Ratio Lower Upper

113 100

111 101.2 81.8 122.6

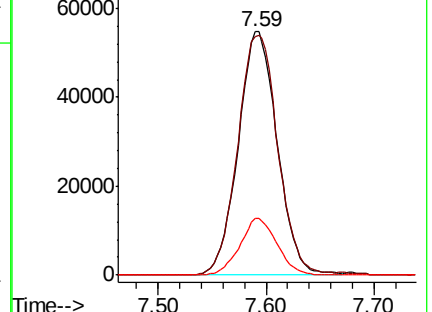
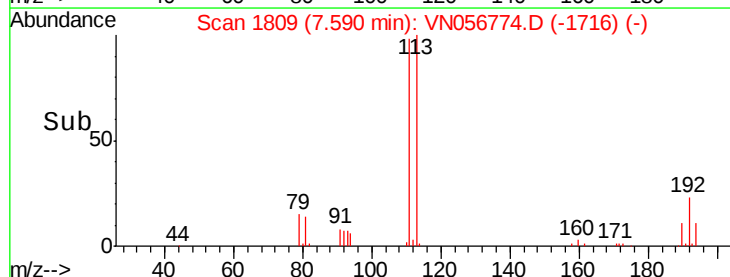
192 22.1 17.5 26.3

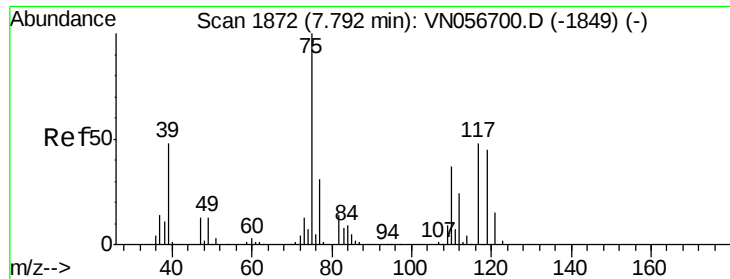


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 3.892 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN056774.D

Acq: 16 Jul 2019 17:19

Instrument :

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ClientSampleId :

PB121398ZHE#11

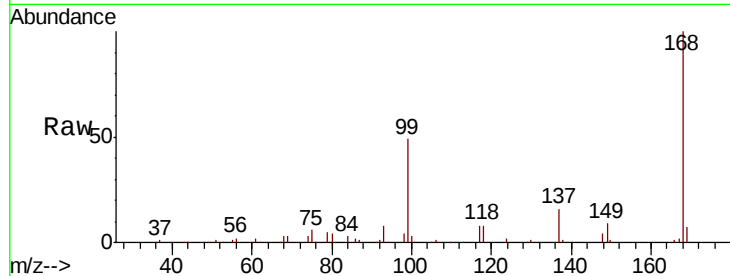
Tot Ion: 75 Resp: 16625

Ion Ratio Lower Upper

75 100

110 8.5 18.4 55.4#

77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): VN056774.D (-1779) (-)

Ion 109.90 (109.60 to 110.60): VN056774.D (-1779) (-)

Ion 76.90 (76.60 to 77.60): VN056774.D (-1779) (-)

7.67

6000

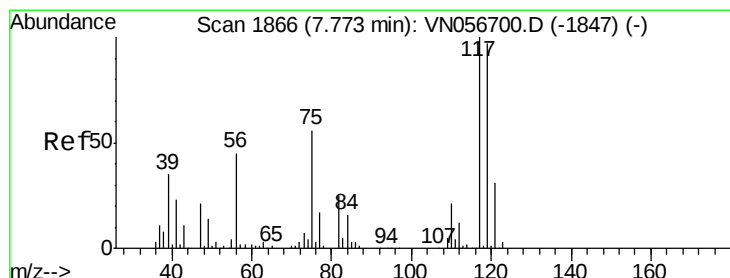
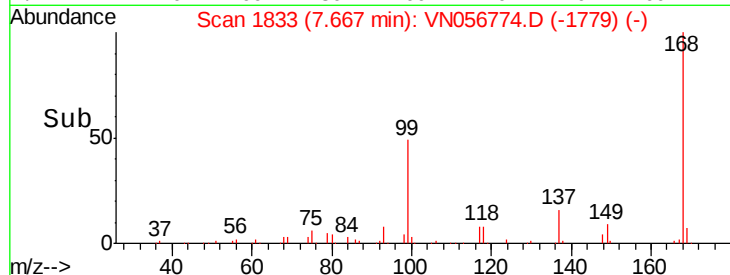
4000

2000

0

7.60 7.65 7.70 7.75

Time-->



#38

Carbon Tetrachloride

Concen: 5.398 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN056774.D

Acq: 16 Jul 2019 17:19

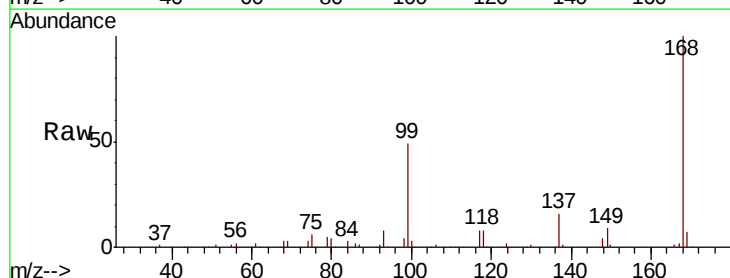
Tgt Ion: 117 Resp: 21623

Ion Ratio Lower Upper

117 100

119 5.2 77.5 116.3#

121 0.0 24.7 37.1#



Abundance Ion 116.80 (116.50 to 117.50): VN056774.D (-1773) (-)

Ion 118.80 (118.50 to 119.50): VN056774.D (-1773) (-)

Ion 120.80 (120.50 to 121.50): VN056774.D (-1773) (-)

7.67

12000

10000

8000

6000

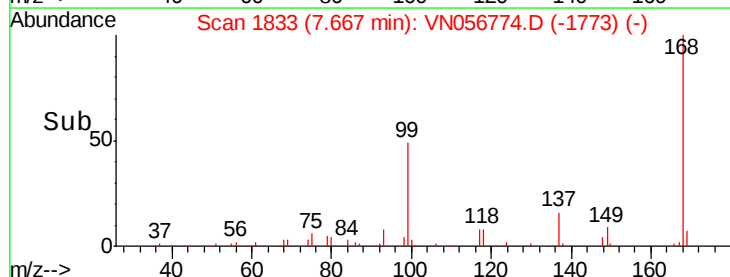
4000

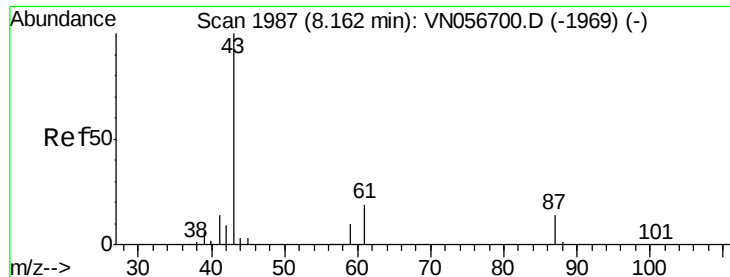
2000

0

7.60 7.65 7.70 7.75

Time-->





#43

Isopropyl Acetate

Concen: 2.335 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN056774.D

Acq: 16 Jul 2019 17:19

Instrument :

MSVOA_N

ClientSampleId :

PB121398ZHE#11

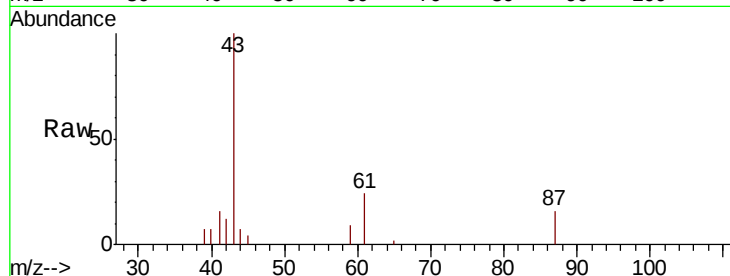
Tot Ion: 43 Resp: 15450

Ion Ratio Lower Upper

43 100

61 25.8 22.3 33.5

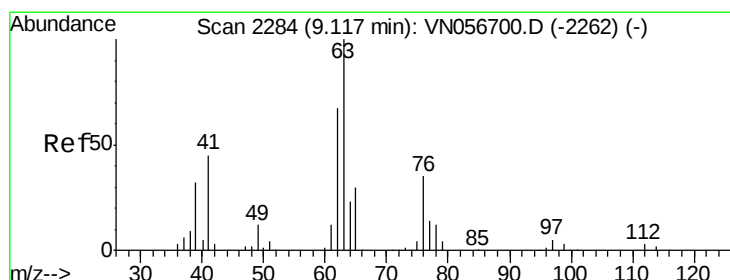
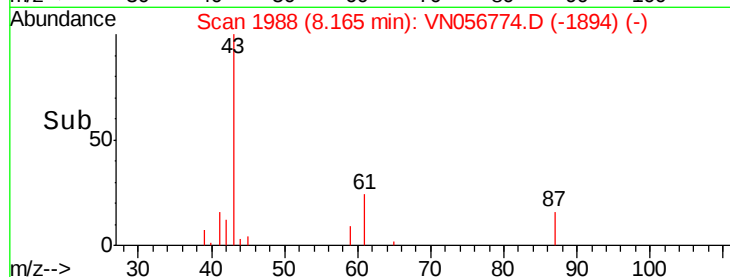
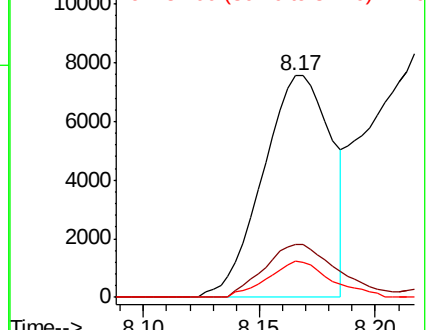
87 15.2 11.1 16.7



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: 0.493 ug/l

RT: 9.27 min Scan# 2331

Delta R.T. 0.15 min

Lab File: VN056774.D

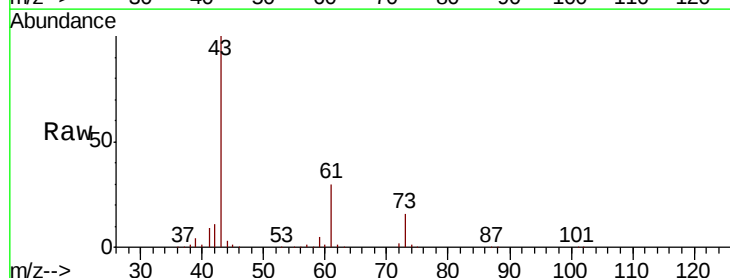
Acq: 16 Jul 2019 17:19

Tgt Ion: 63 Resp: 1714

Ion Ratio Lower Upper

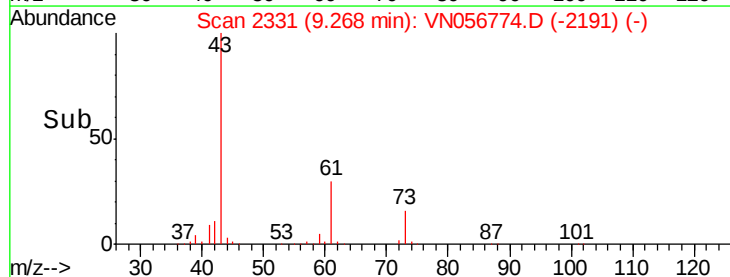
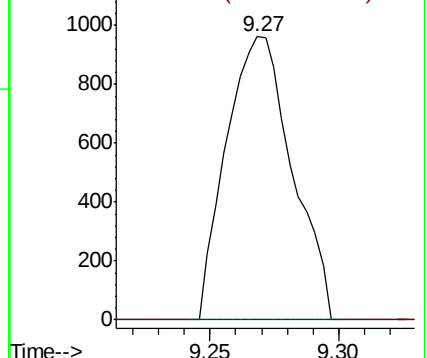
63 100

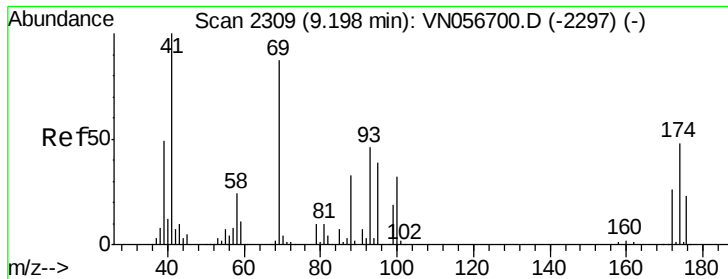
65 0.0 24.0 36.0#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

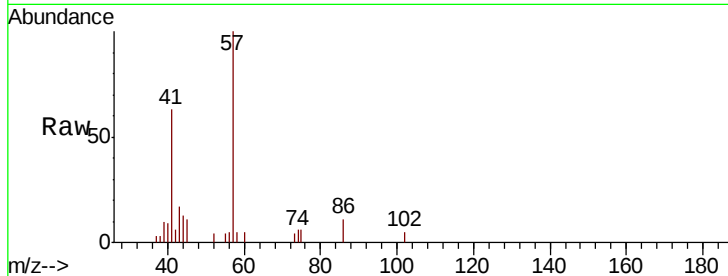




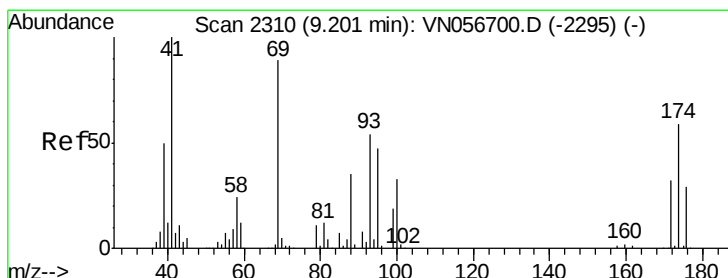
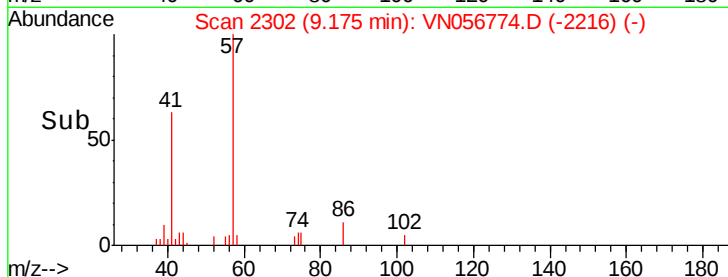
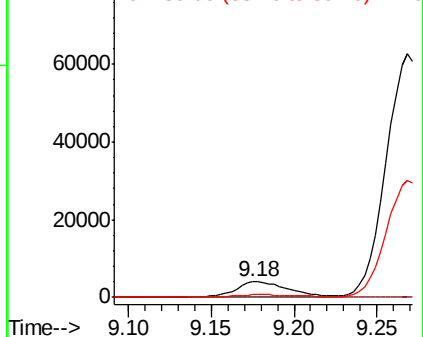
#48
Methyl methacrylate
Concen: 2.799 ug/l
RT: 9.18 min Scan# 2302
Delta R.T. -0.02 min
Lab File: VN056774.D
Acq: 16 Jul 2019 17:19

Instrument :
MSVOA_N
ClientSampleId :
PB121398ZHE#11

Tot Ion: 41 Resp: 8959
Ion Ratio Lower Upper
41 100
69 0.0 71.4 107.0#
39 0.0 41.2 61.8#

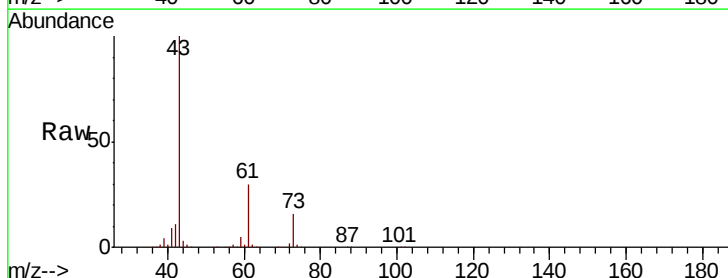


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

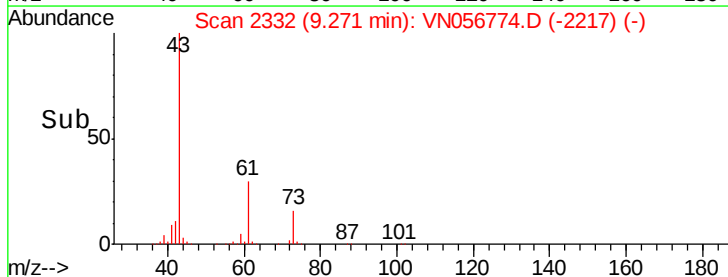
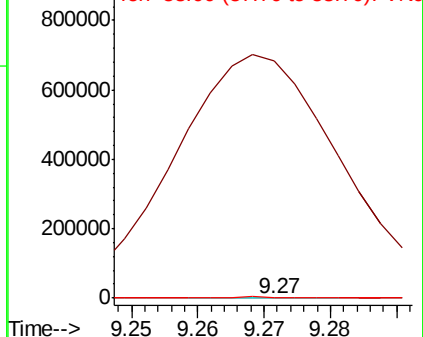


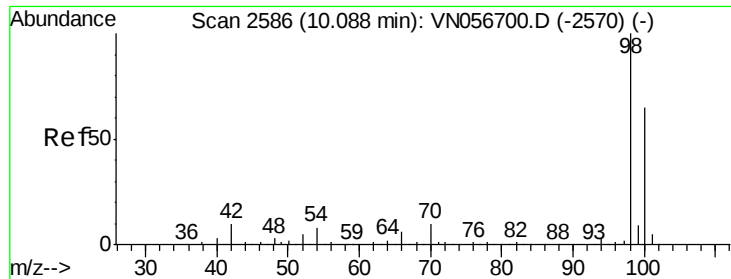
#49
1,4-Dioxane
Concen: 2.010 ug/l
RT: 9.27 min Scan# 2332
Delta R.T. 0.07 min
Lab File: VN056774.D
Acq: 16 Jul 2019 17:19

Tgt Ion: 88 Resp: 132
Ion Ratio Lower Upper
88 100
43 984641.7 23.7 35.5#
58 4285.6 55.6 83.4#



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: 52.197 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056774.D

Acq: 16 Jul 2019 17:19

Instrument :

MSVOA_N

ClientSampleId :

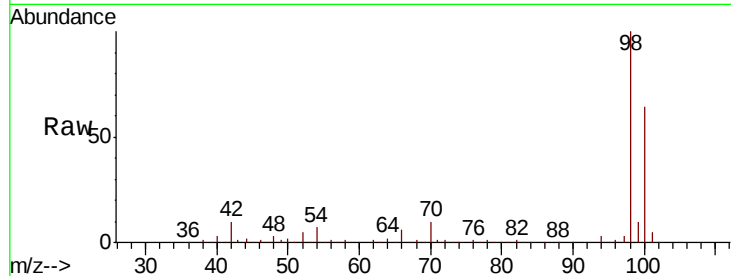
PB121398ZHE#11

Tot Ion: 98 Resp: 579067

Ion Ratio Lower Upper

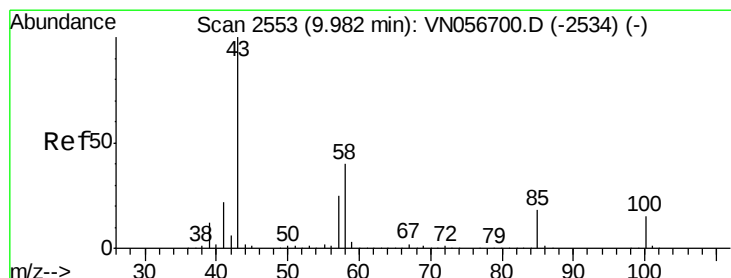
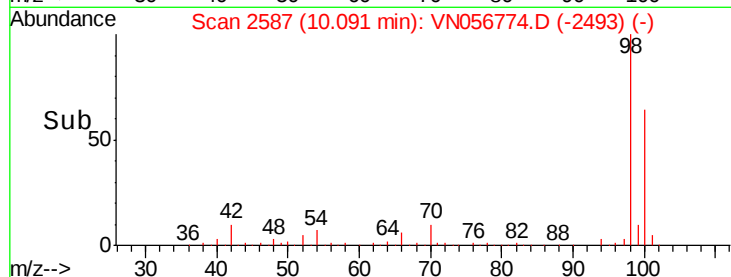
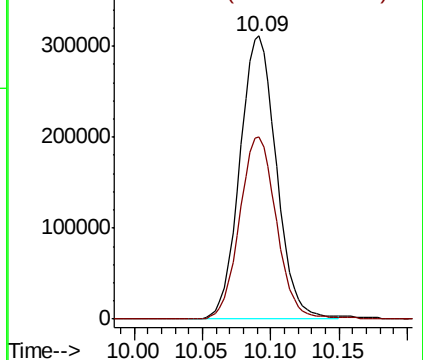
98 100

100 65.1 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VN0

Ion 100.00 (99.70 to 100.70): VN



#51

4-Methyl-2-Pentanone

Concen: 0.735 ug/l

RT: 9.98 min Scan# 2553

Delta R.T. -0.00 min

Lab File: VN056774.D

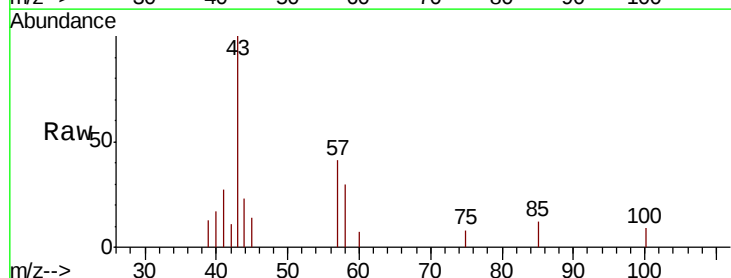
Acq: 16 Jul 2019 17:19

Tgt Ion: 43 Resp: 3150

Ion Ratio Lower Upper

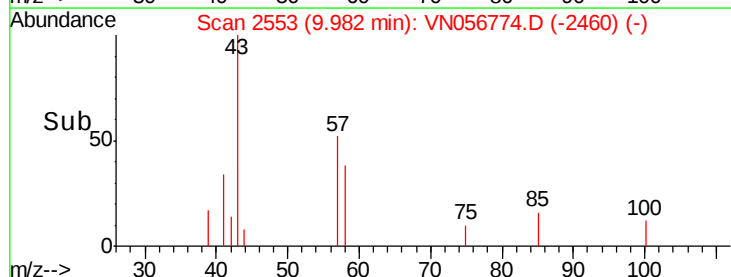
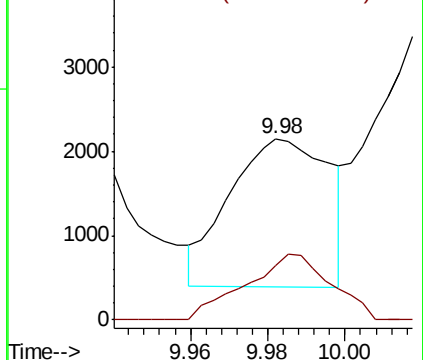
43 100

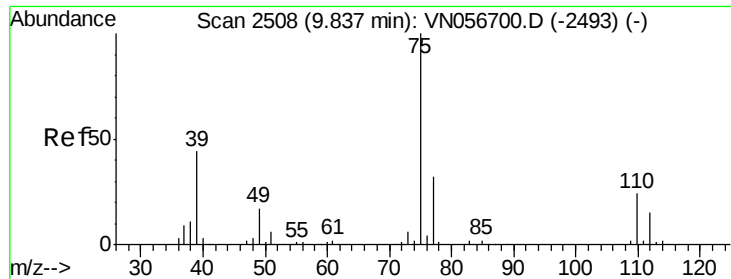
58 37.7 32.0 48.0



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



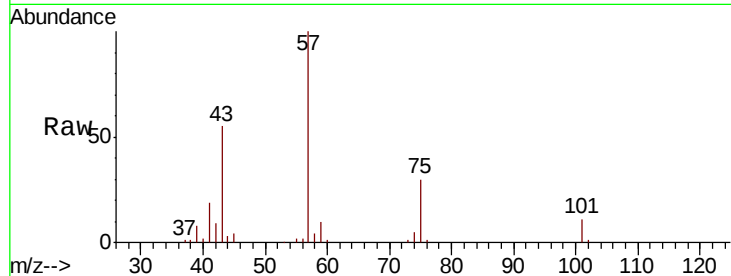


#54

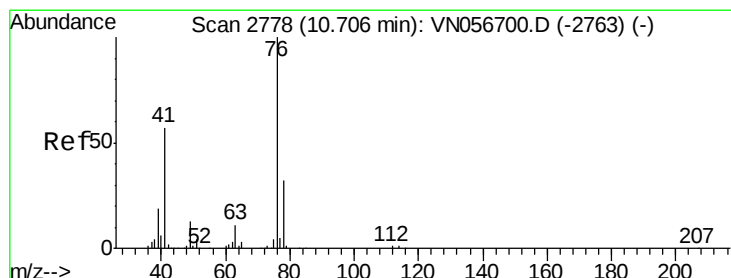
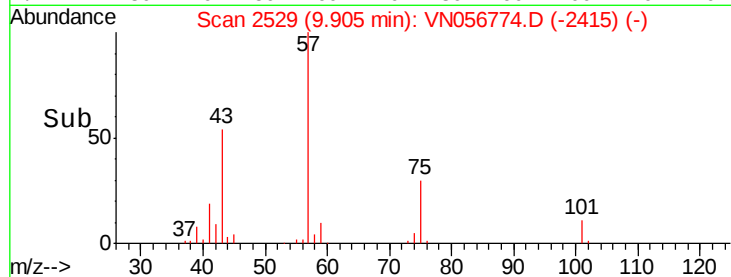
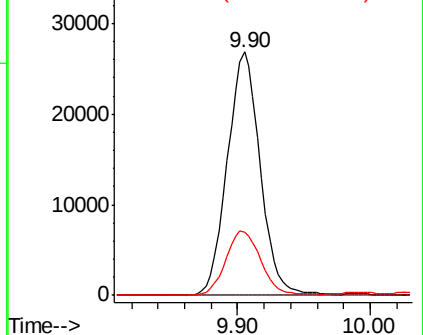
cis-1,3-Dichloropropene
 Concen: 9.313 ug/l
 RT: 9.90 min Scan# 2529
 Delta R.T. 0.07 min
 Lab File: VN056774.D
 Acq: 16 Jul 2019 17:19

Instrument :
 MSVOA_N
 ClientSampleId :
 PB121398ZHE#11

Tot Ion: 75 Resp: 46173
 Ion Ratio Lower Upper
 75 100
 77 0.0 26.0 39.0#
 39 26.0 35.1 52.7#



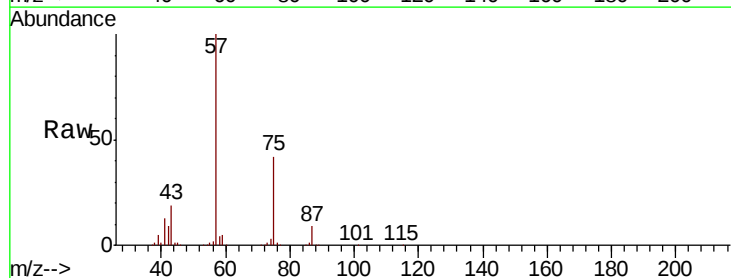
Abundance Ion 74.90 (74.60 to 75.60): VNO
 Ion 76.90 (76.60 to 77.60): VNO
 Ion 39.00 (38.70 to 39.70): VNO



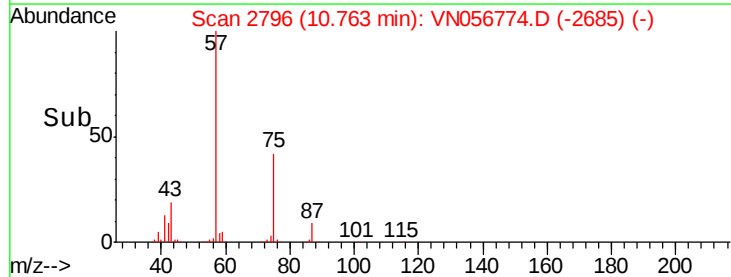
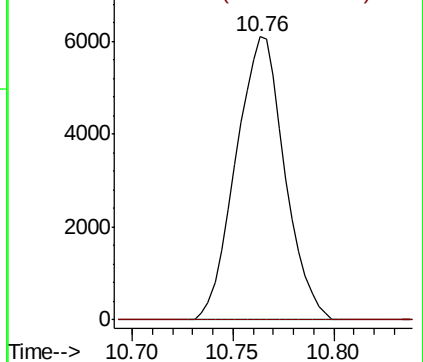
#57

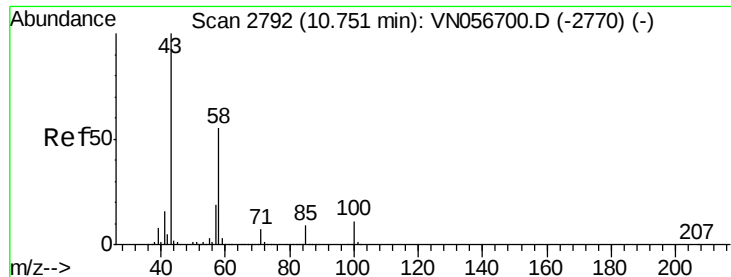
1,3-Dichloropropane
 Concen: 1.937 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.06 min
 Lab File: VN056774.D
 Acq: 16 Jul 2019 17:19

Tgt Ion: 76 Resp: 10314
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.0 39.0#



Abundance Ion 75.90 (75.60 to 76.60): VNO
 Ion 77.90 (77.60 to 78.60): VNO

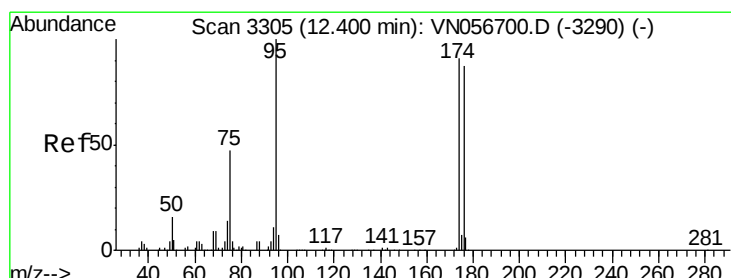
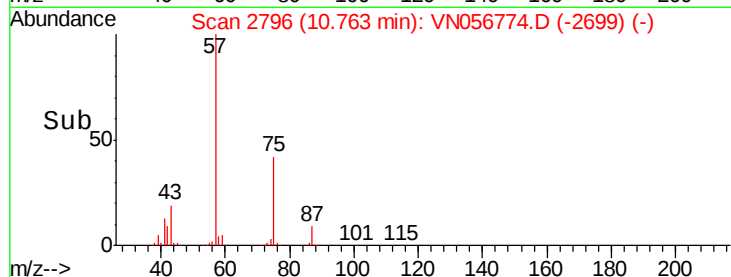
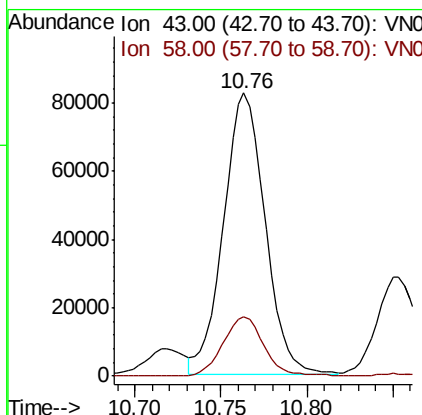
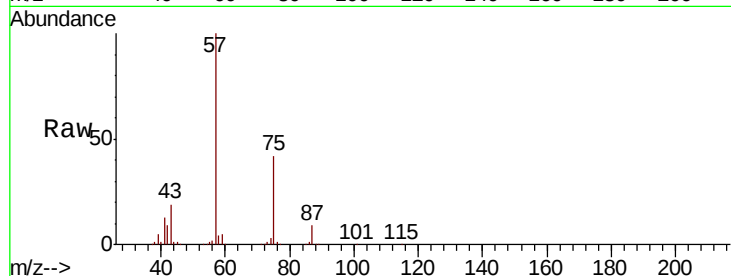




#59
2-Hexanone
Concen: 45.569 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.01 min
Lab File: VN056774.D
Acq: 16 Jul 2019 17:19

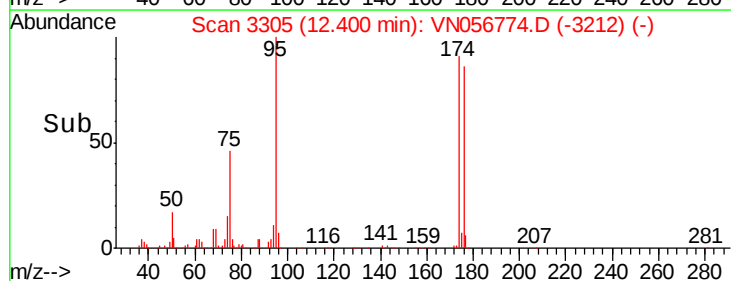
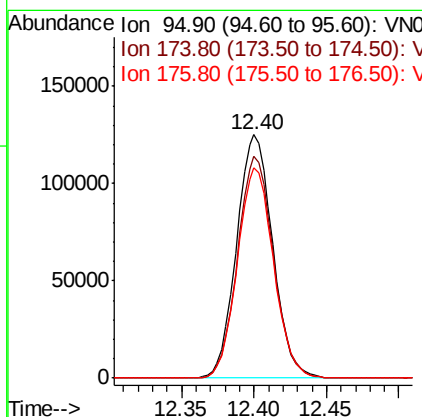
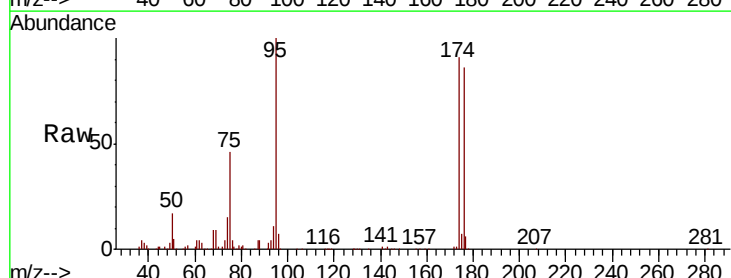
Instrument :
MSVOA_N
ClientSampleId :
PB121398ZHE#11

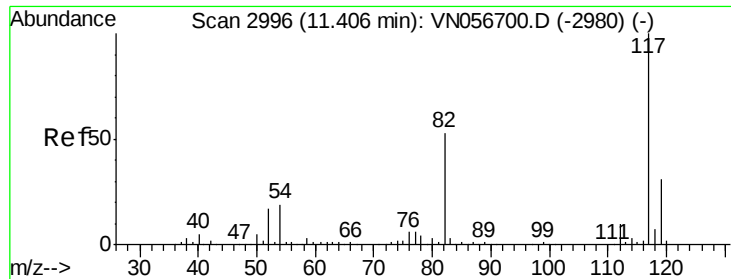
Tot Ion: 43 Resp: 140148
Ion Ratio Lower Upper
43 100
58 20.8 27.9 83.6#



#62
4-Bromofluorobenzene
Concen: 57.688 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN056774.D
Acq: 16 Jul 2019 17:19

Tgt Ion: 95 Resp: 215824
Ion Ratio Lower Upper
95 100
174 90.9 0.0 180.0
176 86.8 0.0 173.2

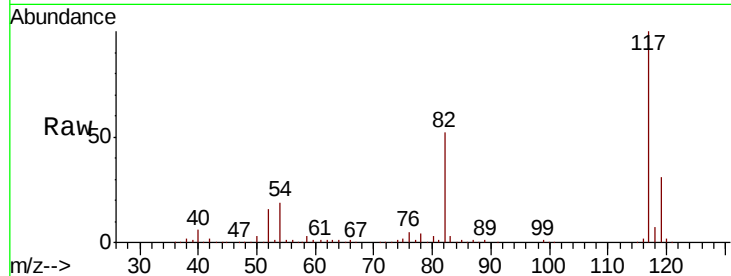




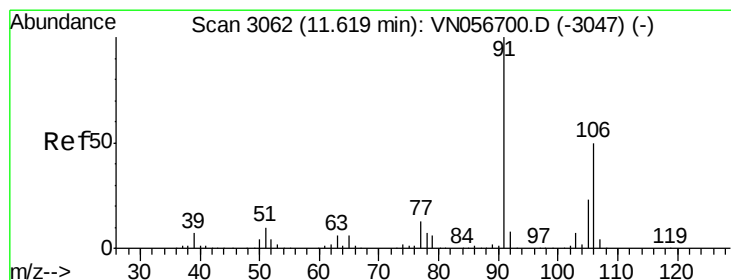
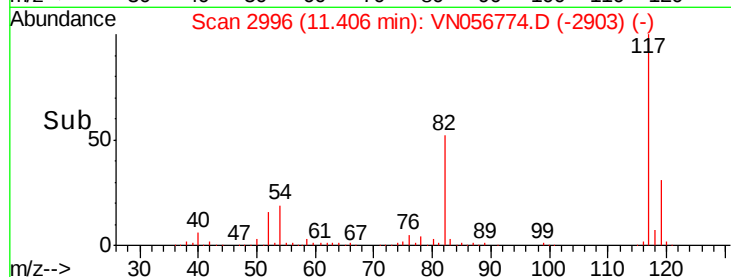
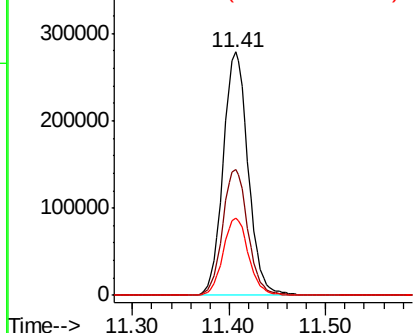
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN056774.D
Acq: 16 Jul 2019 17:19

Instrument :
MSVOA_N
ClientSampleId :
PB121398ZHE#11

Tot Ion:117 Resp: 499411
Ion Ratio Lower Upper
117 100
82 51.9 42.2 63.2
119 31.5 25.2 37.8

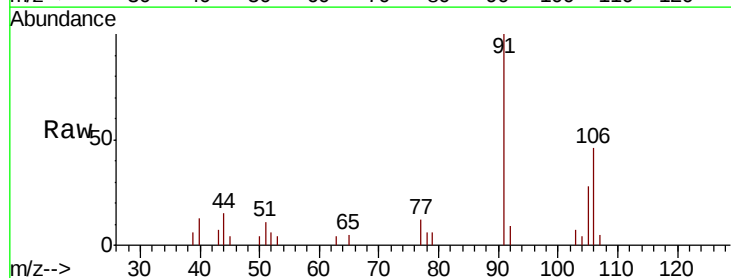


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VN
Ion 118.90 (118.60 to 119.60): V

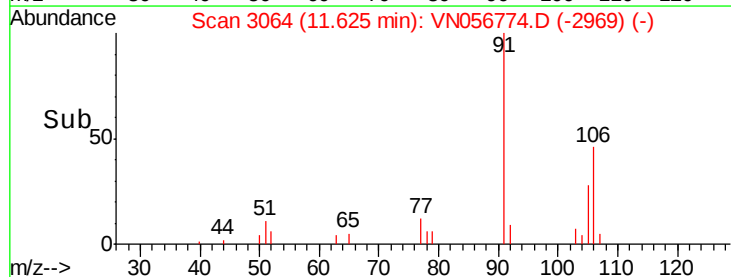
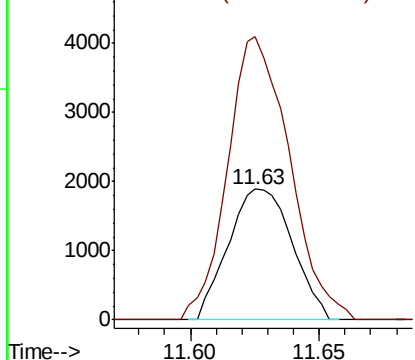


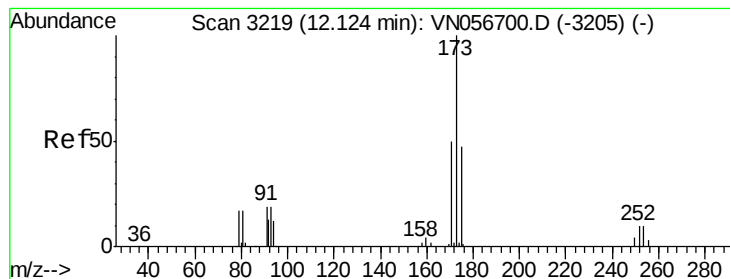
#68
m/p-Xylenes
Concen: 0.487 ug/l
RT: 11.63 min Scan# 3064
Delta R.T. 0.01 min
Lab File: VN056774.D
Acq: 16 Jul 2019 17:19

Tgt Ion:106 Resp: 3266
Ion Ratio Lower Upper
106 100
91 209.7 160.5 240.7



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VN





#71

Bromoform

Concen: 0.609 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.28 min

Lab File: VN056774.D

Acq: 16 Jul 2019 17:19

Instrument :

MSVOA_N

ClientSampleId :

PB121398ZHE#11

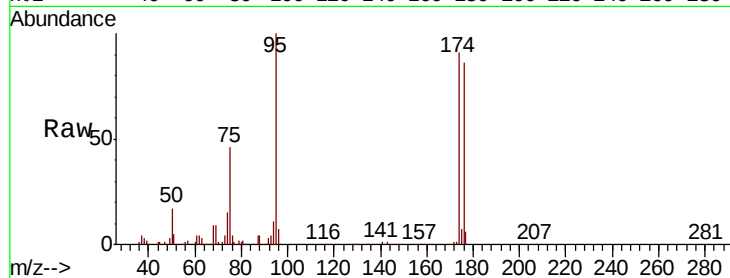
Tot Ion:173 Resp: 1743

Ion Ratio Lower Upper

173 100

175 666.8 23.8 71.4#

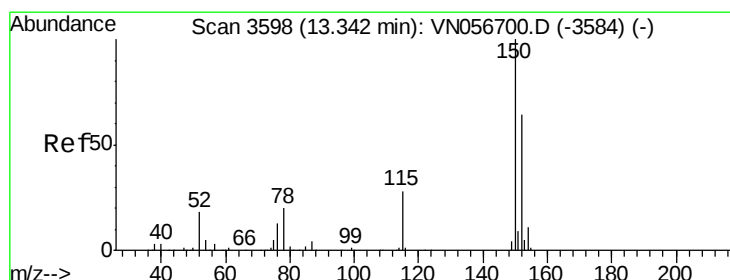
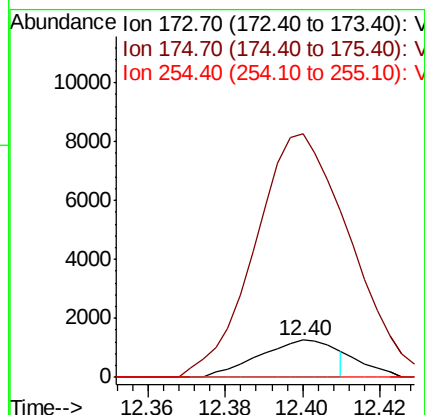
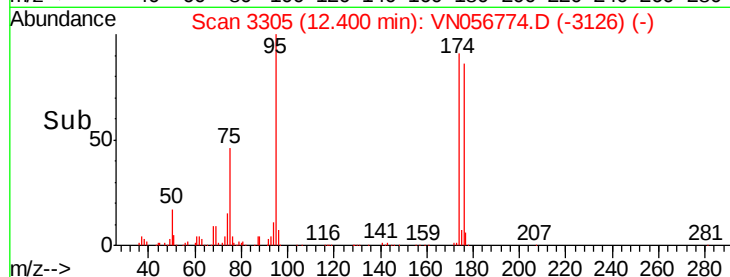
254 0.0 0.0 0.0



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: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN056774.D

Acq: 16 Jul 2019 17:19

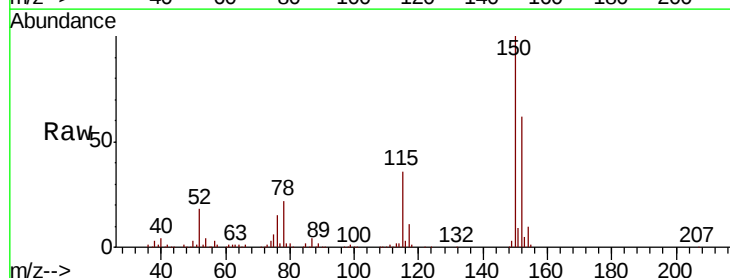
Tgt Ion:152 Resp: 181867

Ion Ratio Lower Upper

152 100

115 56.7 28.2 84.7

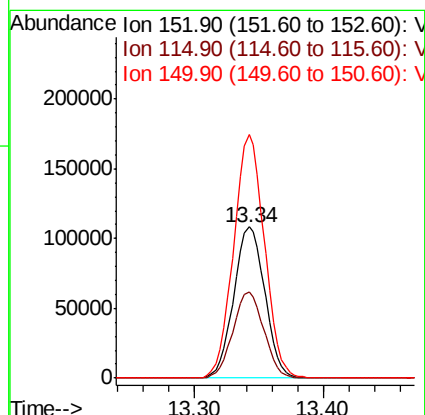
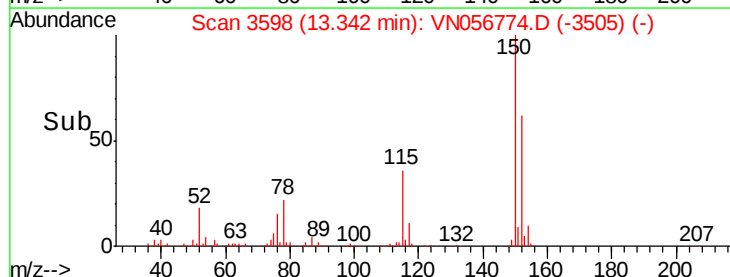
150 159.1 0.0 345.8

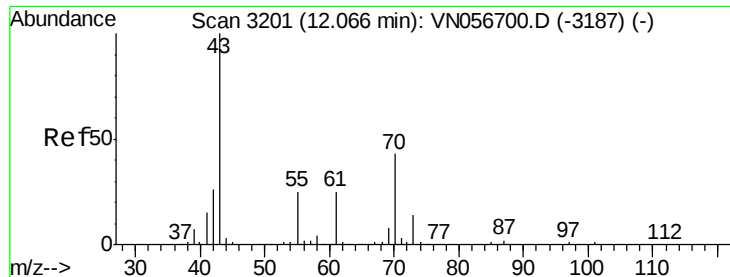


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

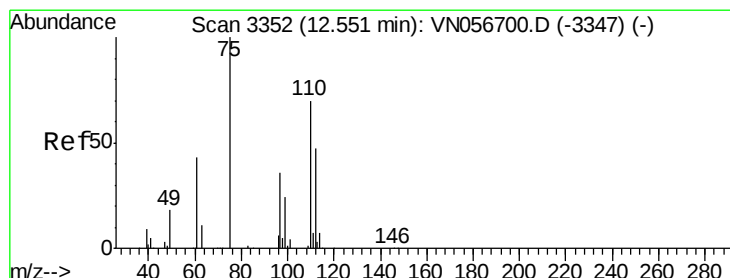
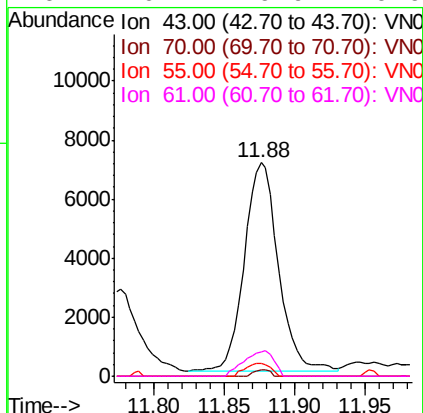
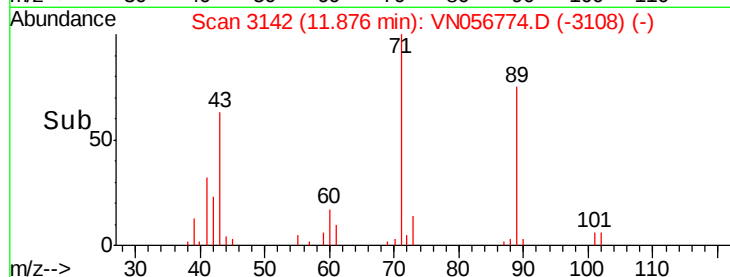
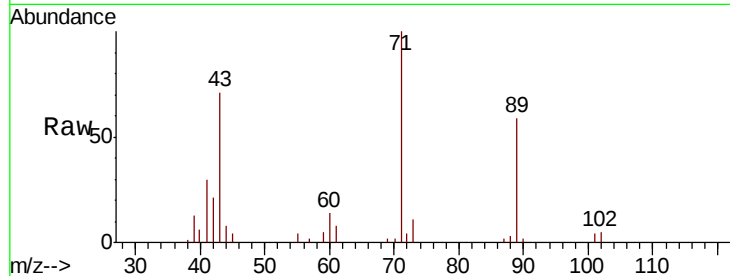




#74
N-amvl acetate
Concen: 2.183 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN056774.D
Acq: 16 Jul 2019 17:19

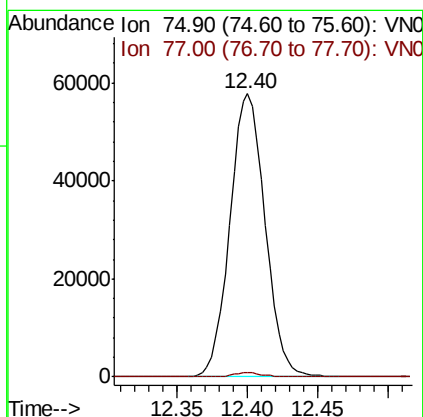
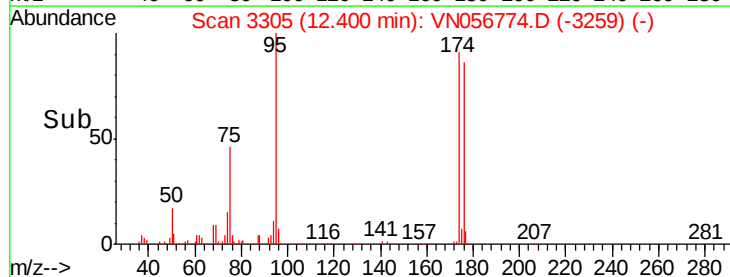
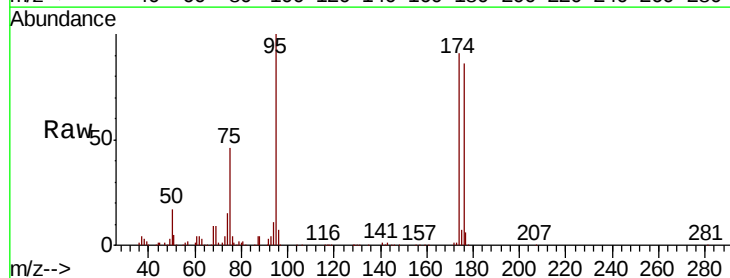
Instrument :
MSVOA_N
ClientSampleId :
PB121398ZHE#11

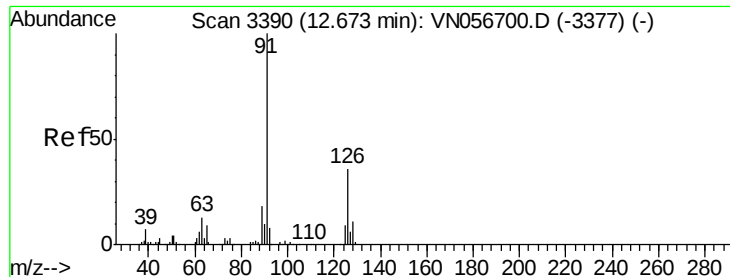
Tot Ion: 43 Resp: 11921
Ion Ratio Lower Upper
43 100
70 1.5 34.5 51.7#
55 4.6 20.2 30.2#
61 10.7 19.9 29.9#



#76
1,2,3-Trichloropropane
Concen: 25.378 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN056774.D
Acq: 16 Jul 2019 17:19

Tgt Ion: 75 Resp: 100948
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. -0.27 min

Lab File: VN056774.D

Acq: 16 Jul 2019 17:19

Instrument :

MSVOA_N

ClientSampleId :

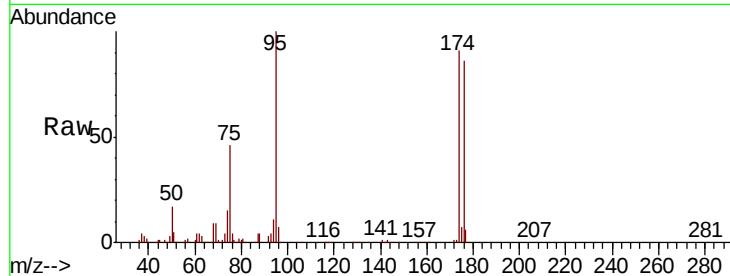
PB121398ZHE#11

Tot Ion: 91 Resp: 594

Ion Ratio Lower Upper

91 100

126 0.0 17.9 53.7#



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 125.90 (125.60 to 126.60): VNO

12.40

400

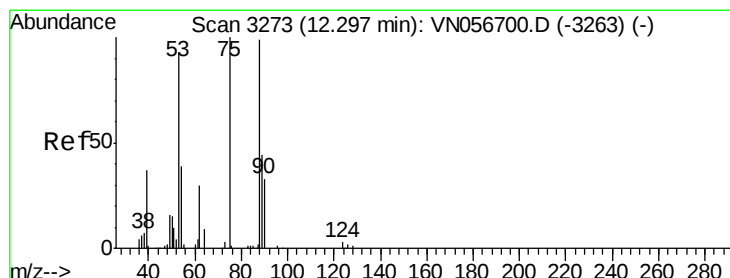
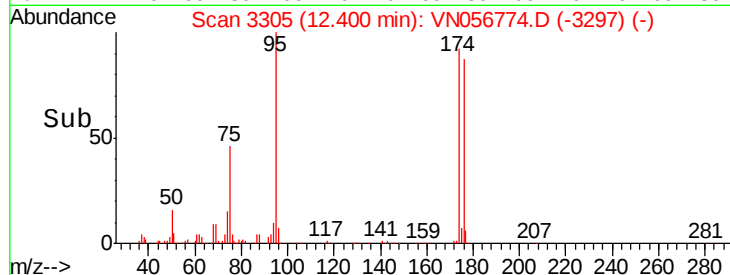
300

200

100

0

Time--> 12.36 12.38 12.40 12.42



#81

trans-1,4-Dichloro-2-butene

Concen: 78.377 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056774.D

Acq: 16 Jul 2019 17:19

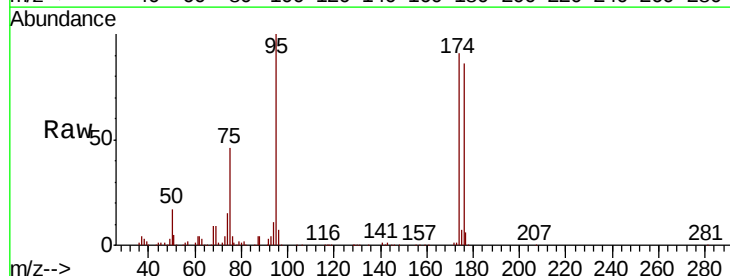
Tgt Ion: 75 Resp: 100948

Ion Ratio Lower Upper

75 100

53 0.0 73.7 110.5#

89 0.0 36.2 54.2#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

80000

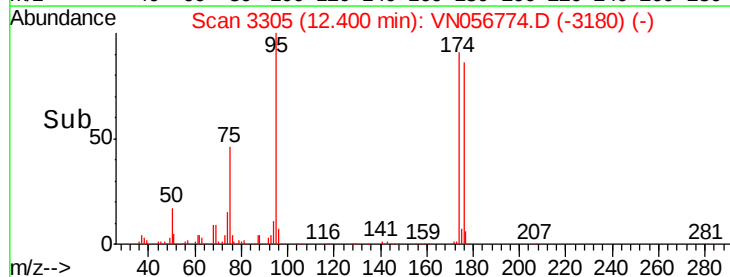
60000

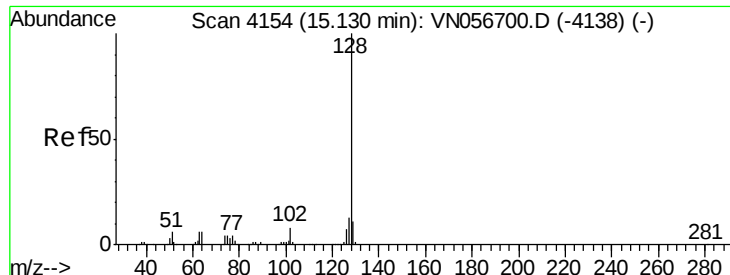
40000

20000

0

Time--> 12.35 12.40 12.45





#95

Naphthalene

Concen: 4.538 ug/l

RT: 15.14 min Scan# 4157

Delta R.T. 0.01 min

Lab File: VN056774.D

Acq: 16 Jul 2019 17:19

Instrument :

MSVOA_N

ClientSampleId :

PB121398ZHE#11

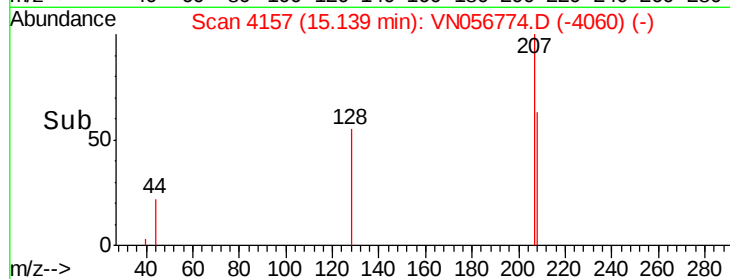
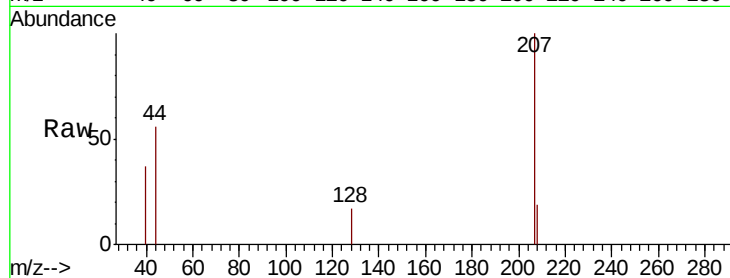
Tot Ion:128 Resp: 128

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.7 13.1#



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

