

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061819\
 Data File : VN056363.D
 Acq On : 18 Jun 2019 14:08
 Operator : JC/SP
 Sample : K3157-10
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

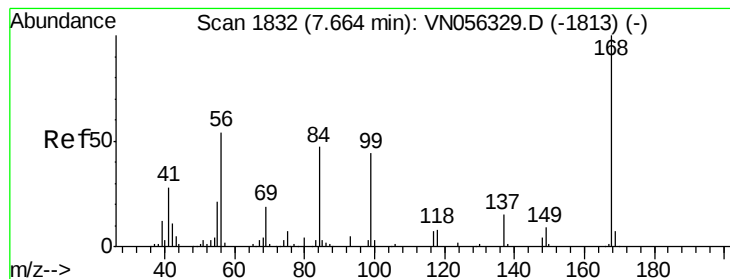
Quant Time: Jun 19 02:00:09 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061719W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 18 04:23:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	346325	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	590914	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	606137	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	190052	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	203595	52.28	ug/l	0.00
Spiked Amount			Recovery	=	104.56%	
35) Dibromofluoromethane	7.59	113	175458	46.30	ug/l	0.00
Spiked Amount			Recovery	=	92.60%	
50) Toluene-d8	10.09	98	752419	51.98	ug/l	0.00
Spiked Amount			Recovery	=	103.96%	
62) 4-Bromofluorobenzene	12.40	95	250135	52.14	ug/l	0.00
Spiked Amount			Recovery	=	104.28%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	8842	4.109	ug/l	100
18) Methyl Acetate	4.33	43	5839	Below Cal	#	85
20) Methylene Chloride	4.55	84	11471	3.019	ug/l	98
25) 2-Butanone	6.86	43	558	0.214	ug/l #	48
29) Tetrahydrofuran	7.23	42	1156	0.746	ug/l #	33
30) Chloroform	7.37	83	4152	0.671	ug/l	89
31) Cyclohexane	7.66	56	5780	0.963	ug/l #	1
36) 1,1-Dichloropropene	7.66	75	22246	4.184	ug/l #	48
38) Carbon Tetrachloride	7.66	117	29983	5.875	ug/l #	16
43) Isopropyl Acetate	8.17	43	12709	1.577	ug/l	97
45) 1,2-Dichloropropane	9.27	63	1498	0.351	ug/l #	44
48) Methyl methacrylate	9.18	41	8229	2.023	ug/l #	13
51) 4-Methyl-2-Pentanone	9.99	43	3595	0.700	ug/l	98
54) cis-1,3-Dichloropropene	9.90	75	52561	8.479	ug/l #	64
57) 1,3-Dichloropropane	10.76	76	11712	1.718	ug/l #	42
59) 2-Hexanone	10.76	43	159687	41.909	ug/l #	51
71) Bromoform	12.40	173	1593	0.446	ug/l #	1
73) Isopropylbenzene	12.40	105	187	Below Cal	#	48
74) N-amyl acetate	11.88	43	13734	2.300	ug/l #	51
76) 1,2,3-Trichloropropane	12.40	75	118188	29.107	ug/l #	100
79) 2-Chlorotoluene	12.73	91	186	Below Cal	#	39
81) trans-1,4-Dichloro-2-buten	12.40	75	118188	90.431	ug/l #	13
83) tert-Butylbenzene	12.73	119	192	Below Cal	#	54
95) Naphthalene	15.14	128	712	4.735	ug/l #	69

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. 0.00 min

Lab File: VN056363.D

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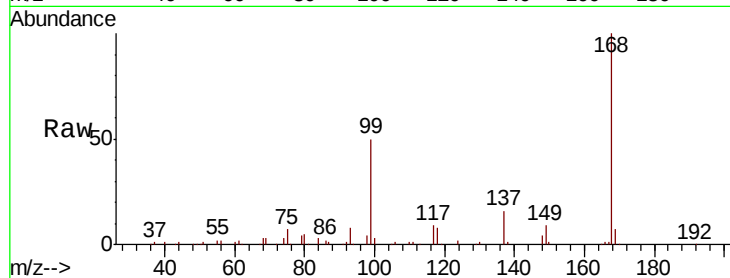
Instrument :
MSVOA_N
ClientSampled :

Tot Ion:168 Resp: 346325

Ion Ratio Lower Upper

168 100

99 49.7 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.66

150000

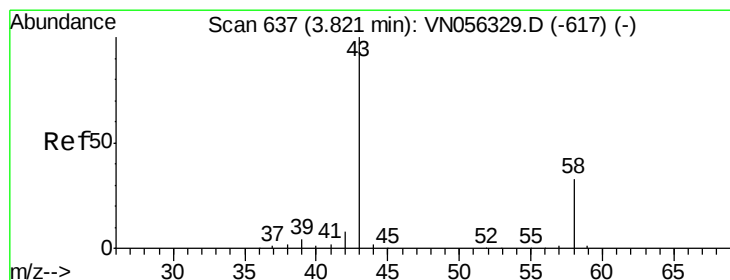
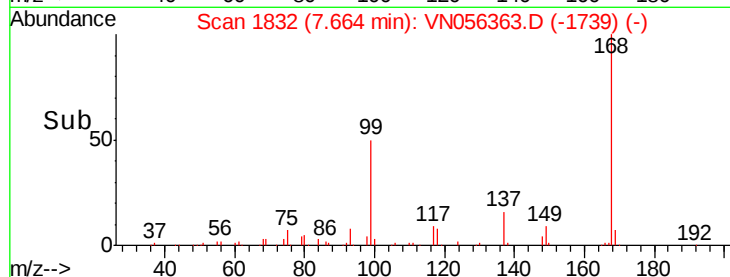
100000

50000

0

7.60 7.70 7.80

Time-->



#16

Acetone

Concen: 4.109 ug/l

RT: 3.82 min Scan# 638

Delta R.T. 0.00 min

Lab File: VN056363.D

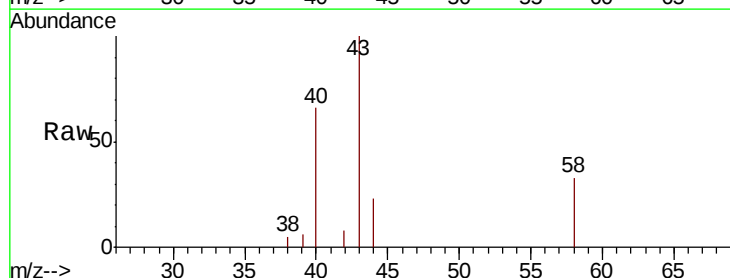
Acq: 18 Jun 2019 14:08

Tgt Ion: 43 Resp: 8842

Ion Ratio Lower Upper

43 100

58 33.2 26.5 39.7



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

3000

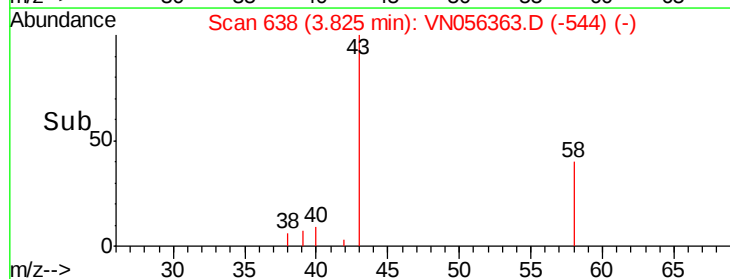
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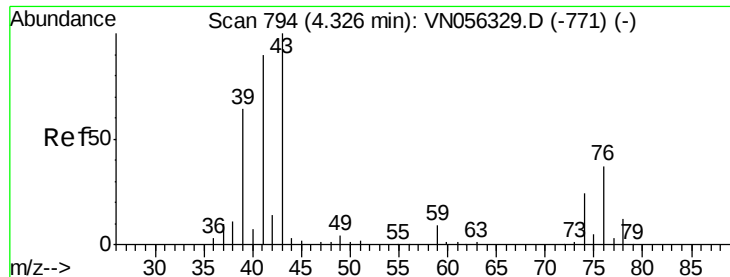
1000

0

3.75 3.80 3.85 3.90

Time-->

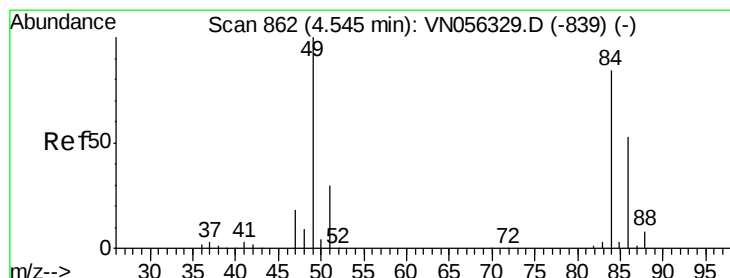
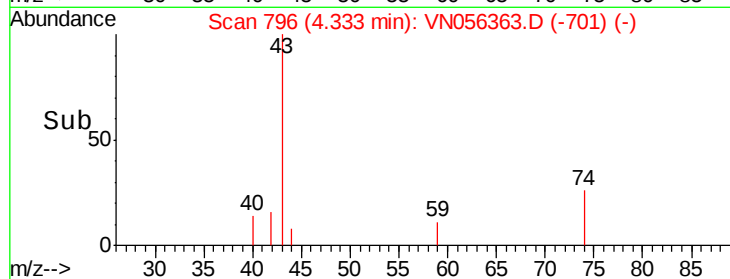
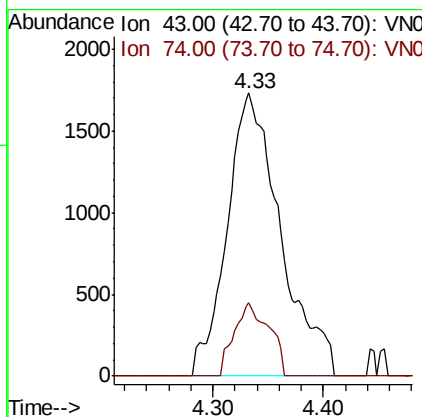
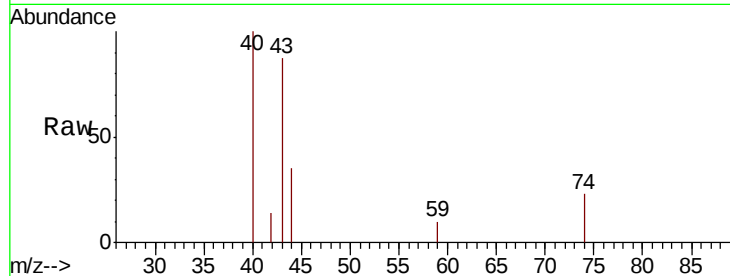




#18
Methyl Acetate
Concen: Below Cal
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN056363.D
Acq: 18 Jun 2019 14:08

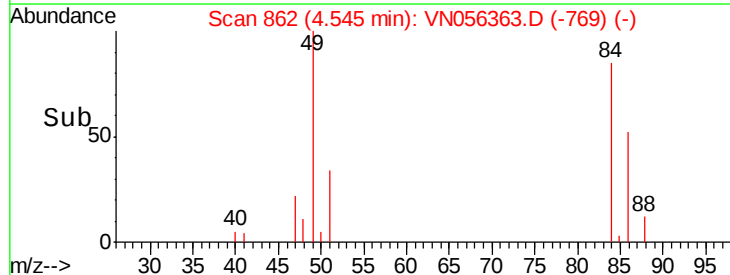
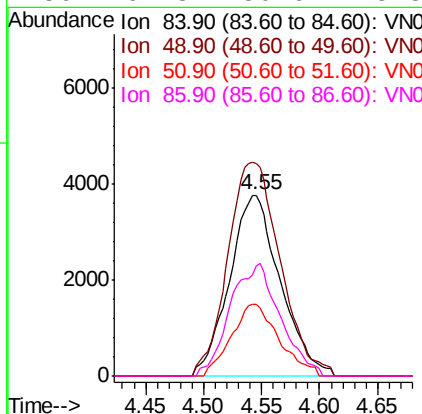
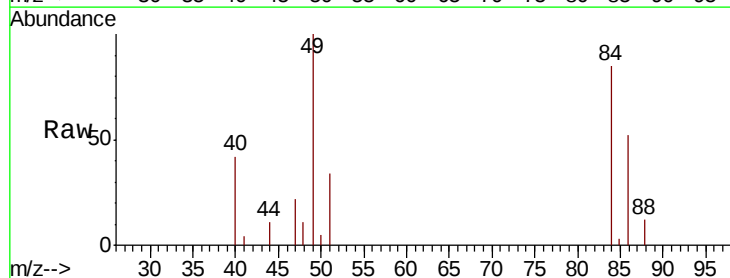
Instrument :
MSVOA_N
ClientSampled :

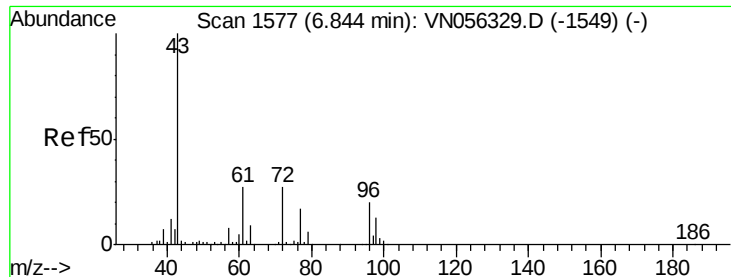
Tot Ion: 43 Resp: 5839
Ion Ratio Lower Upper
43 100
74 16.8 19.4 29.2#



#20
Methylene Chloride
Concen: 3.019 ug/l
RT: 4.55 min Scan# 862
Delta R.T. 0.00 min
Lab File: VN056363.D
Acq: 18 Jun 2019 14:08

Tgt Ion: 84 Resp: 11471
Ion Ratio Lower Upper
84 100
49 118.0 95.0 142.6
51 39.7 28.2 42.4
86 61.3 50.6 75.8





#25

2-Butanone

Concen: 0.214 ug/l

RT: 6.86 min Scan# 1581

Delta R.T. 0.01 min

Lab File: VN056363.D

Acq: 18 Jun 2019 14:08

Instrument :

MSVOA_N

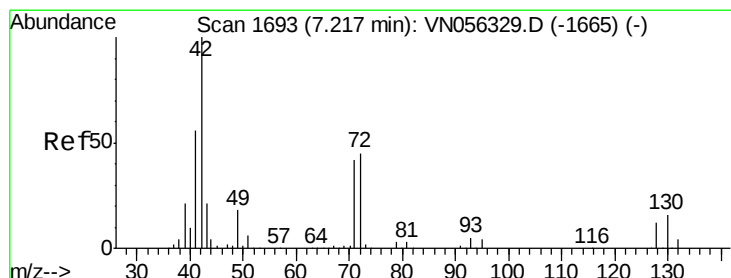
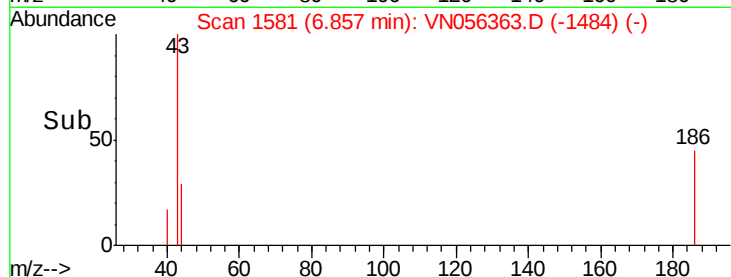
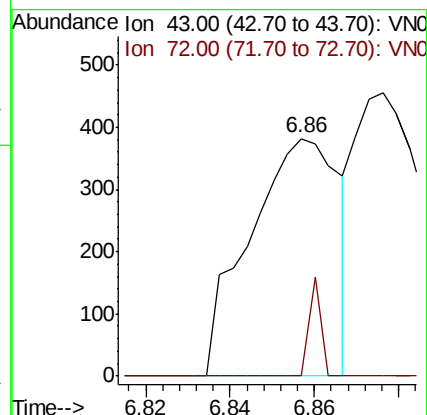
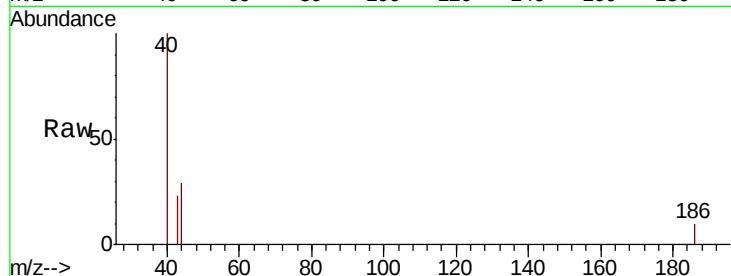
ClientSampled :

Tot Ion: 43 Resp: 558

Ion Ratio Lower Upper

43 100

72 0.0 21.4 32.2#



#29

Tetrahydrofuran

Concen: 0.746 ug/l

RT: 7.23 min Scan# 1697

Delta R.T. 0.01 min

Lab File: VN056363.D

Acq: 18 Jun 2019 14:08

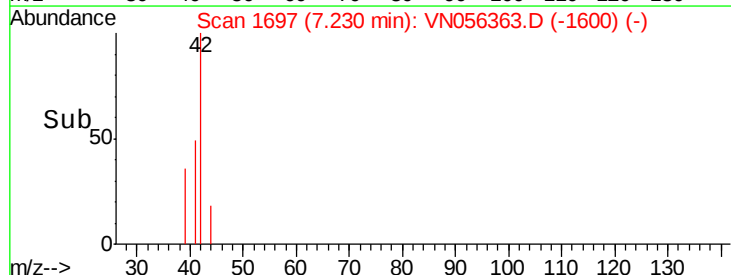
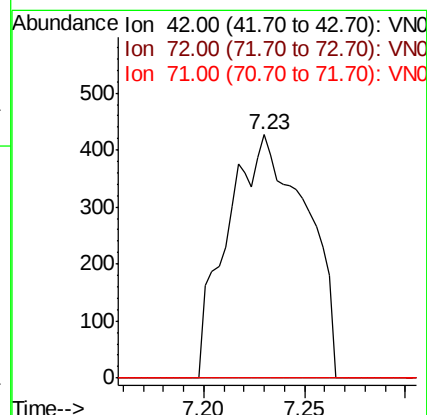
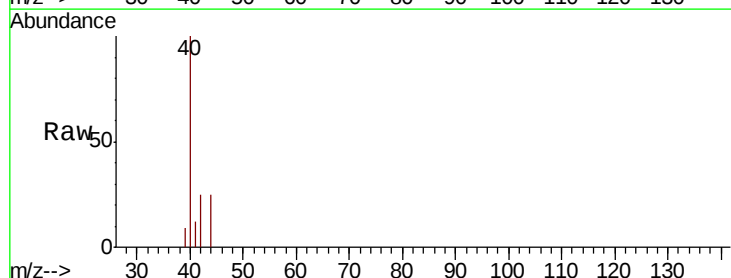
Tgt Ion: 42 Resp: 1156

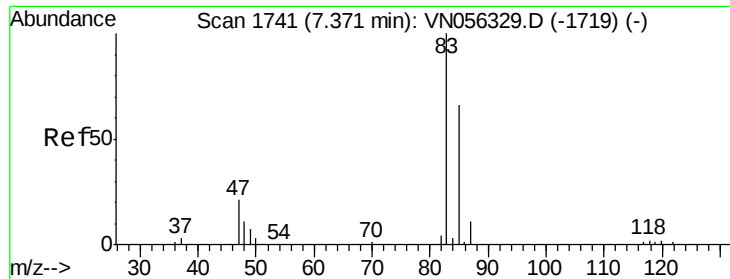
Ion Ratio Lower Upper

42 100

72 0.0 35.3 52.9#

71 0.0 32.7 49.1#

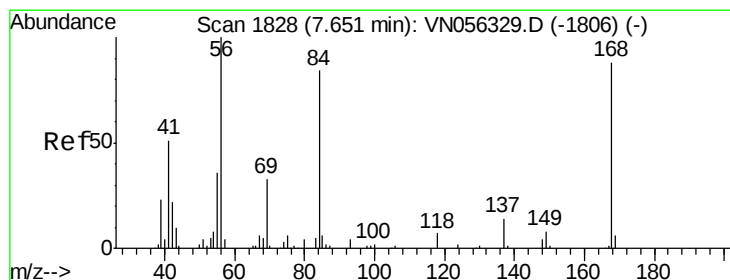
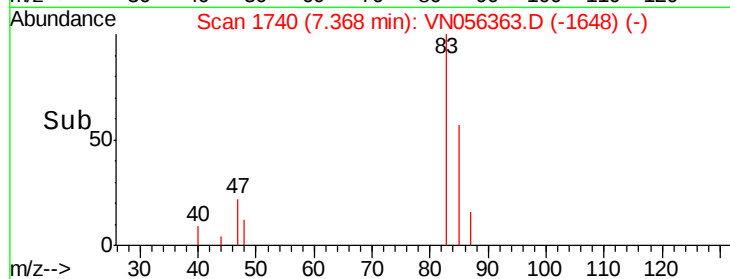
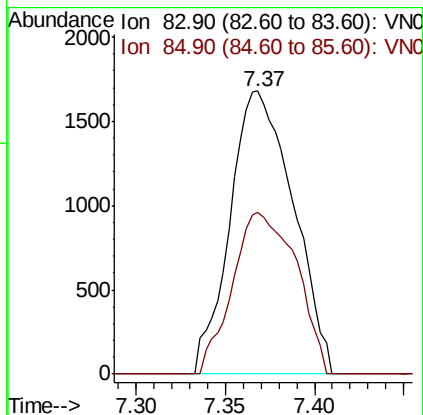
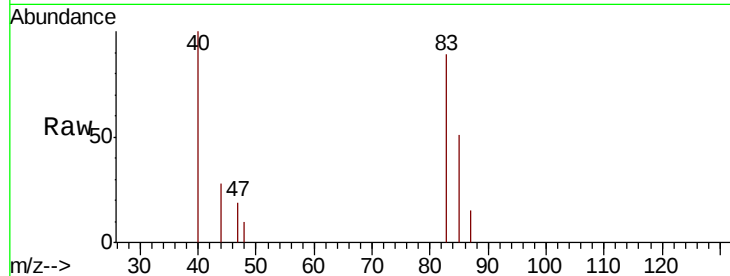




#30
Chloroform
Concen: 0.671 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN056363.D
Acq: 18 Jun 2019 14:08

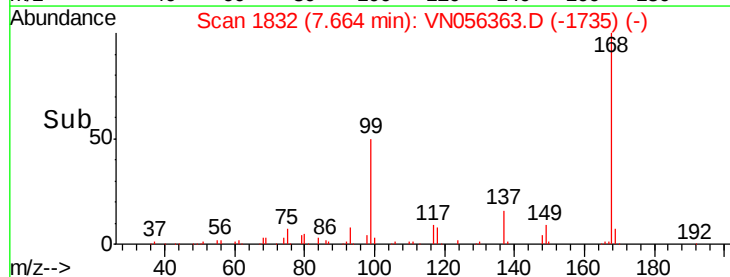
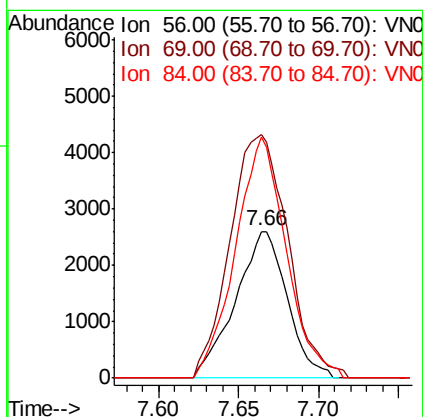
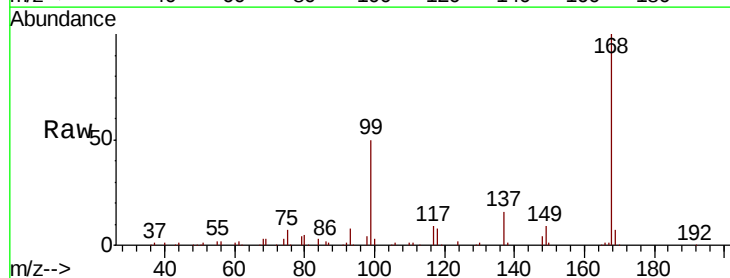
Instrument :
MSVOA_N
ClientSampled :

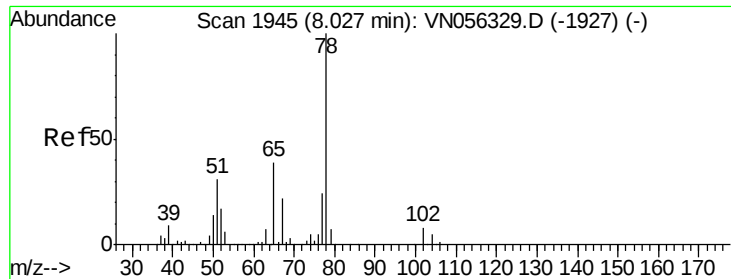
Tot Ion: 83 Resp: 4152
Ion Ratio Lower Upper
83 100
85 57.1 52.6 78.8



#31
Cyclohexane
Concen: 0.963 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN056363.D
Acq: 18 Jun 2019 14:08

Tgt Ion: 56 Resp: 5780
Ion Ratio Lower Upper
56 100
69 166.3 26.0 39.0#
84 164.2 67.4 101.0#

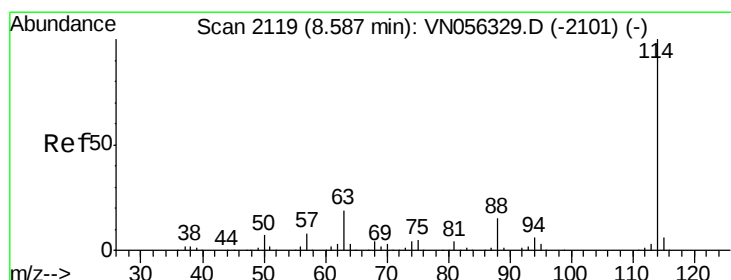
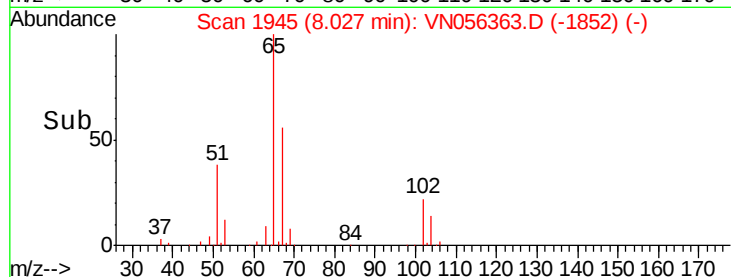
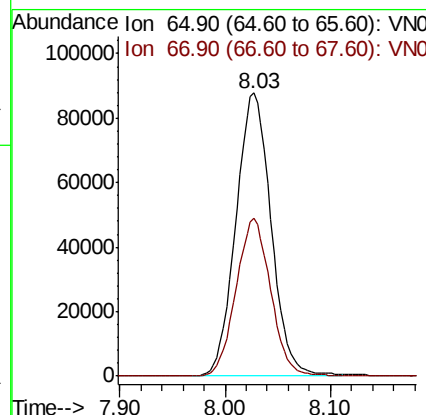
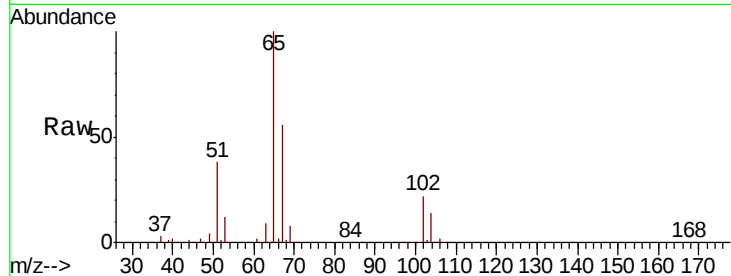




#33
 1,2-Dichloroethane-d4
 Concen: 52.283 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN056363.D
 Acq: 18 Jun 2019 14:08

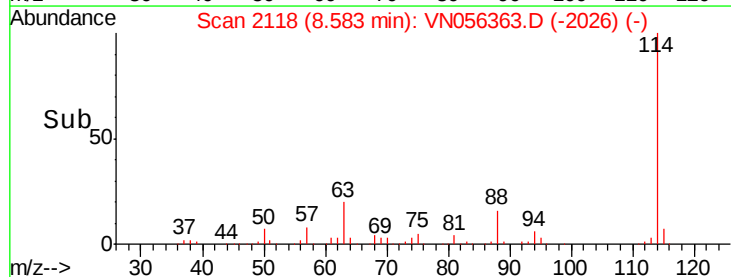
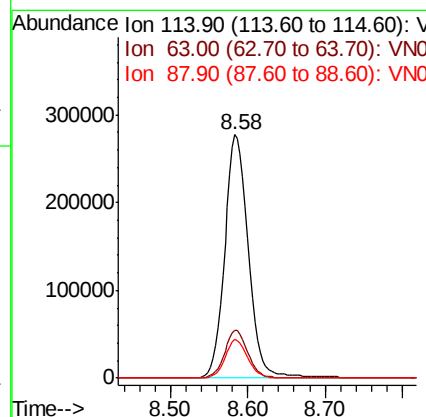
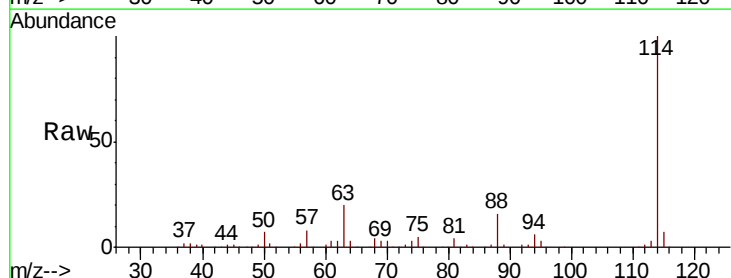
Instrument :
 MSVOA_N
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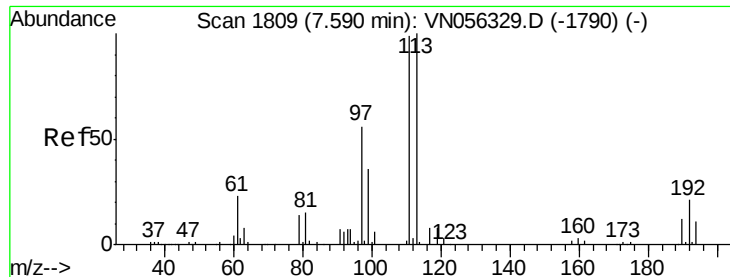
Tot Ion: 65 Resp: 203595
 Ion Ratio Lower Upper
 65 100
 67 54.7 0.0 110.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN056363.D
 Acq: 18 Jun 2019 14:08

Tgt Ion: 114 Resp: 590914
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 38.8
 88 15.8 0.0 30.6

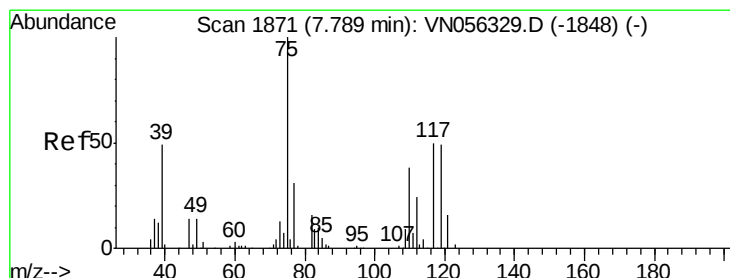
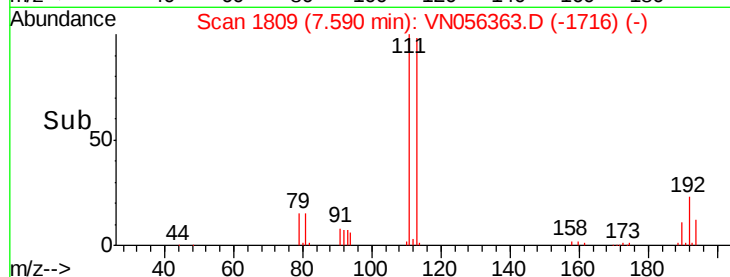
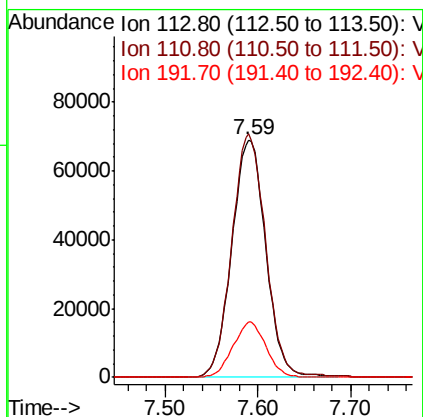
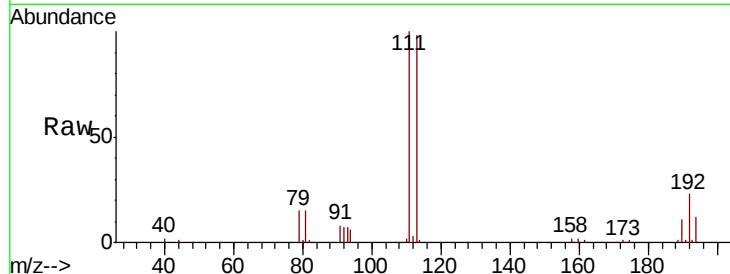




#35
 Dibromofluoromethane
 Concen: 46.302 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN056363.D
 Acq: 18 Jun 2019 14:08

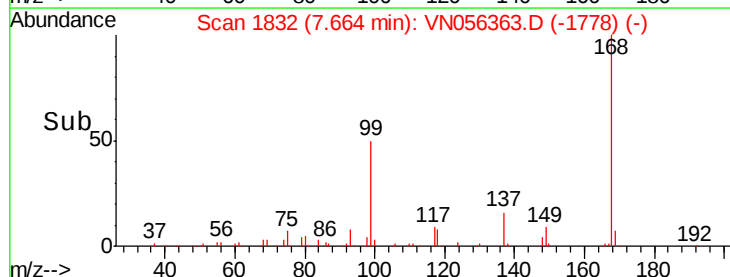
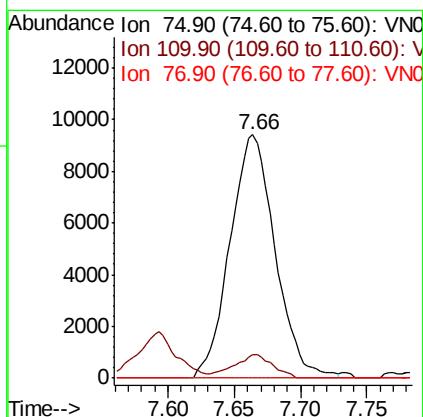
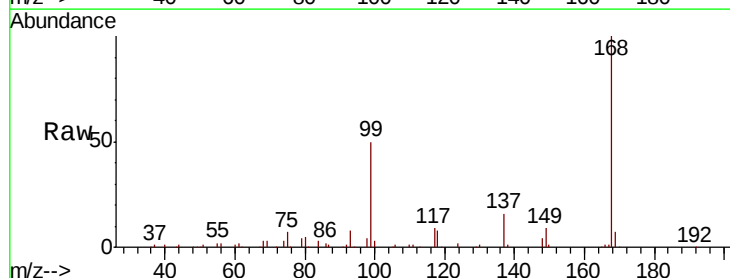
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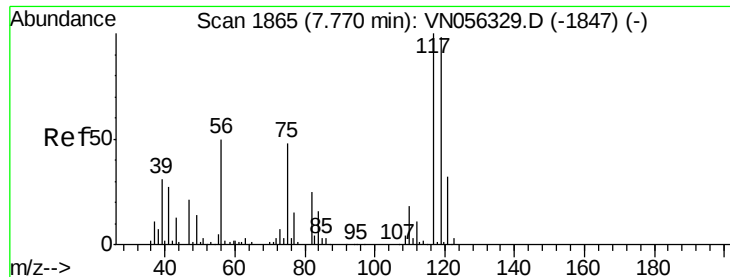
Tot Ion:113 Resp: 175458
 Ion Ratio Lower Upper
 113 100
 111 101.9 82.1 123.1
 192 22.6 17.6 26.4



#36
 1,1-Dichloropropene
 Concen: 4.184 ug/l
 RT: 7.66 min Scan# 1832
 Delta R.T. -0.13 min
 Lab File: VN056363.D
 Acq: 18 Jun 2019 14:08

Tgt Ion: 75 Resp: 22246
 Ion Ratio Lower Upper
 75 100
 110 8.2 18.6 56.0#
 77 0.0 25.0 37.6#





#38

Carbon Tetrachloride

Concen: 5.875 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.11 min

Lab File: VN056363.D

Acq: 18 Jun 2019 14:08

Instrument :

MSVOA_N

ClientSampleId :

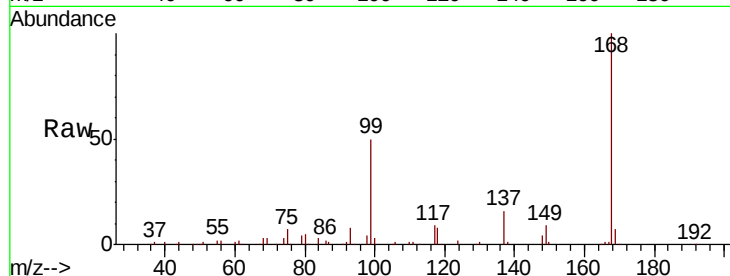
Tot Ion:117 Resp: 29983

Ion Ratio Lower Upper

117 100

119 5.3 77.8 116.8#

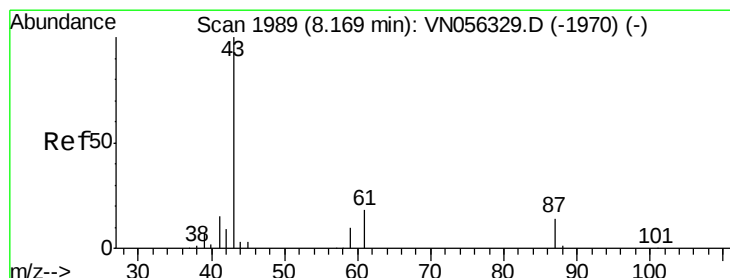
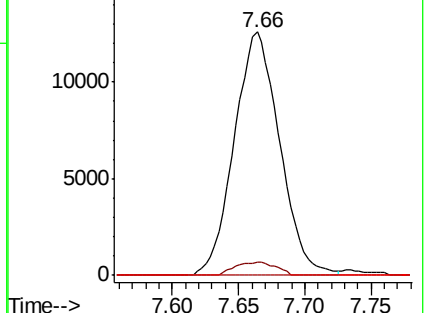
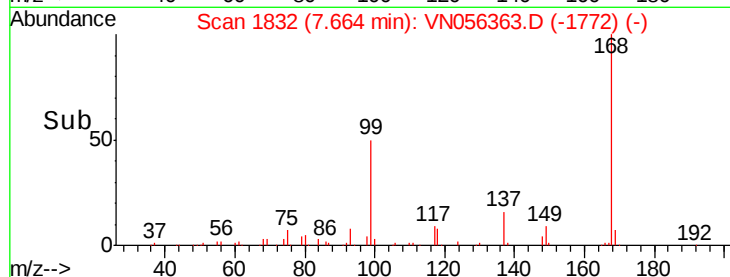
121 0.0 25.3 37.9#



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: 1.577 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.00 min

Lab File: VN056363.D

Acq: 18 Jun 2019 14:08

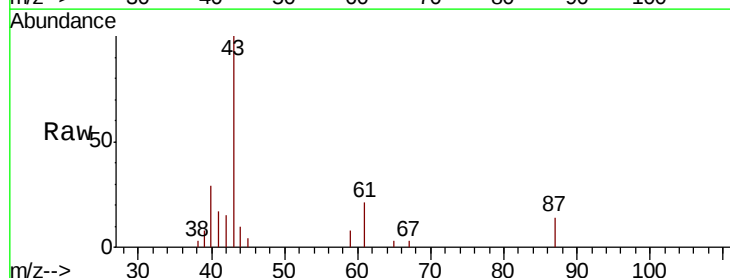
Tgt Ion: 43 Resp: 12709

Ion Ratio Lower Upper

43 100

61 19.5 16.6 25.0

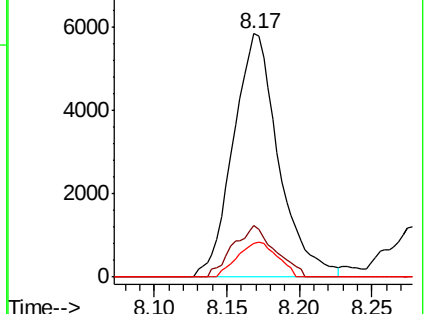
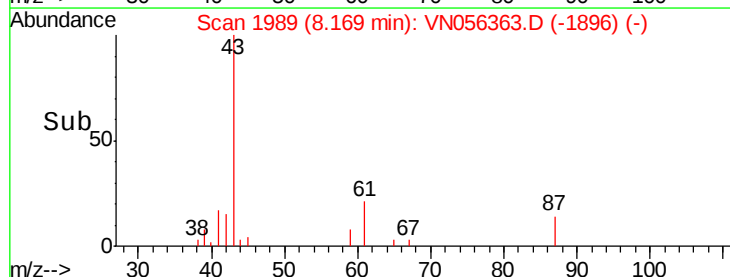
87 12.6 11.0 16.4

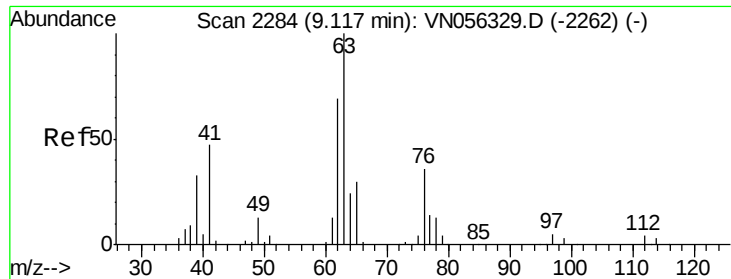


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

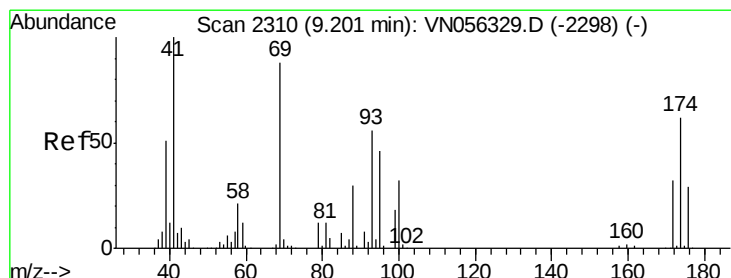
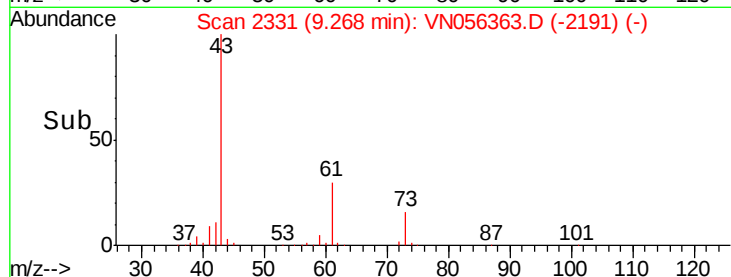
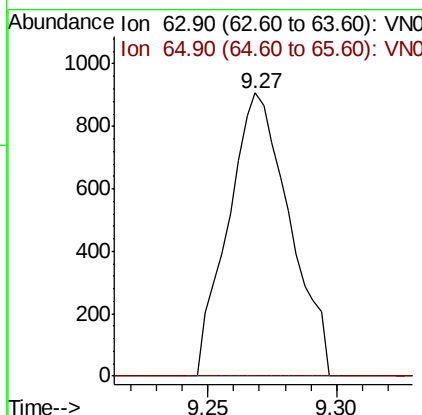
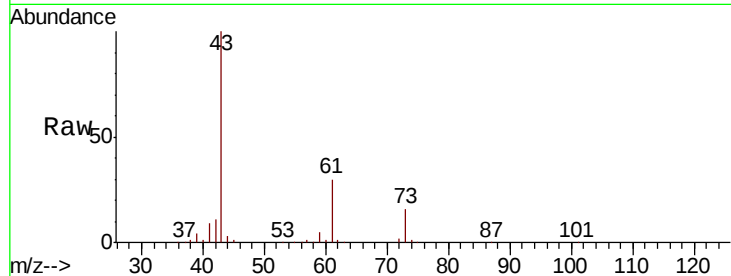




#45
 1,2-Dichloropropane
 Concen: 0.351 ug/l
 RT: 9.27 min Scan# 2331
 Delta R.T. 0.15 min
 Lab File: VN056363.D
 Acq: 18 Jun 2019 14:08

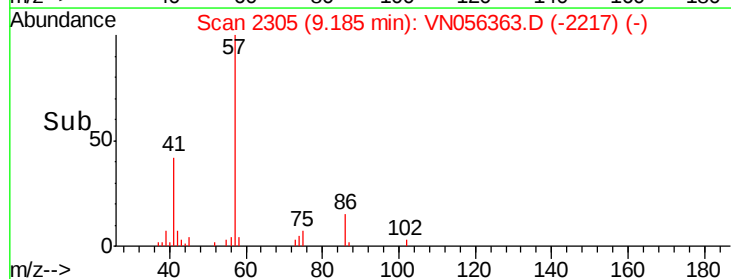
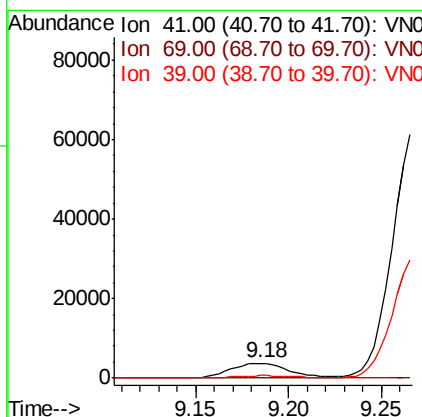
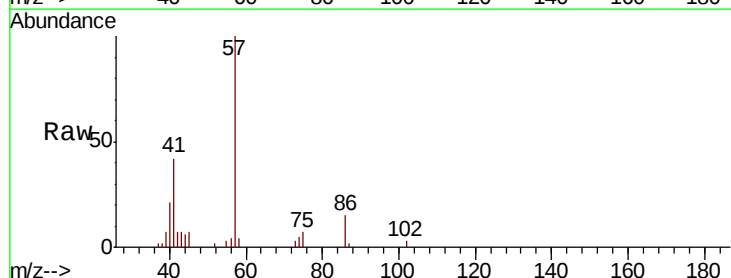
Instrument :
 MSVOA_N
 ClientSampled :

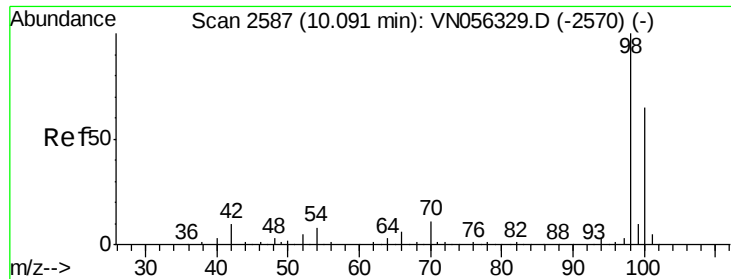
Tot Ion: 63 Resp: 1498
 Ion Ratio Lower Upper
 63 100
 65 0.0 24.4 36.6#



#48
 Methyl methacrylate
 Concen: 2.023 ug/l
 RT: 9.18 min Scan# 2305
 Delta R.T. -0.02 min
 Lab File: VN056363.D
 Acq: 18 Jun 2019 14:08

Tgt Ion: 41 Resp: 8229
 Ion Ratio Lower Upper
 41 100
 69 0.0 71.0 106.6#
 39 0.0 41.7 62.5#





#50

Toluene-d8

Concen: 51.975 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN056363.D

Acq: 18 Jun 2019 14:08

Instrument :

MSVOA_N

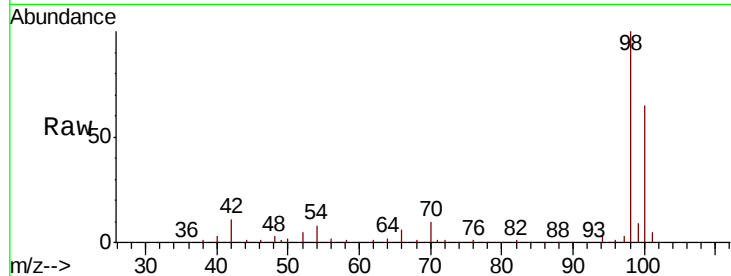
ClientSampled :

Tot Ion: 98 Resp: 752419

Ion Ratio Lower Upper

98 100

100 64.1 51.6 77.4



Abundance Ion 98.00 (97.70 to 98.70): VN056329.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN056329.D (-2570) (-)

10.09

400000

300000

200000

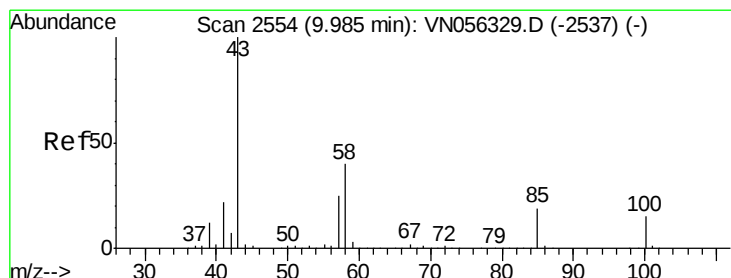
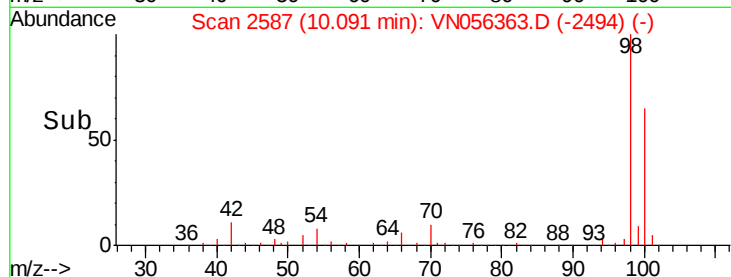
100000

0

10.00

10.20

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.700 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN056363.D

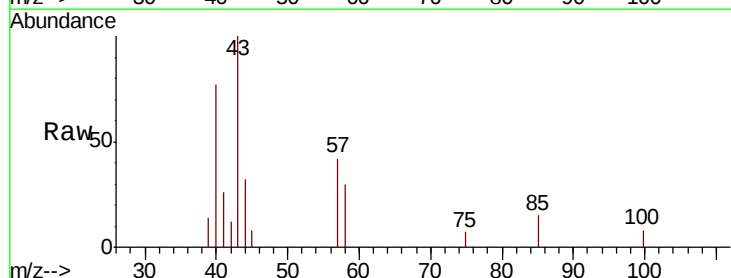
Acq: 18 Jun 2019 14:08

Tgt Ion: 43 Resp: 3595

Ion Ratio Lower Upper

43 100

58 40.7 31.8 47.6



Abundance Ion 43.00 (42.70 to 43.70): VN056329.D (-2537) (-)

Ion 58.00 (57.70 to 58.70): VN056329.D (-2537) (-)

9.99

4000

3000

2000

1000

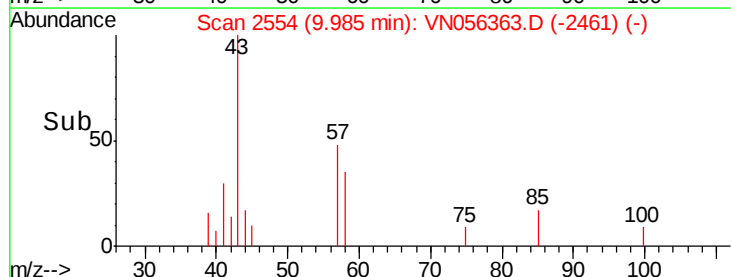
0

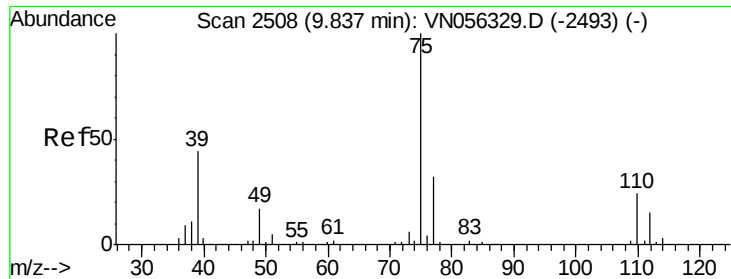
9.96

9.98

10.00

Time-->



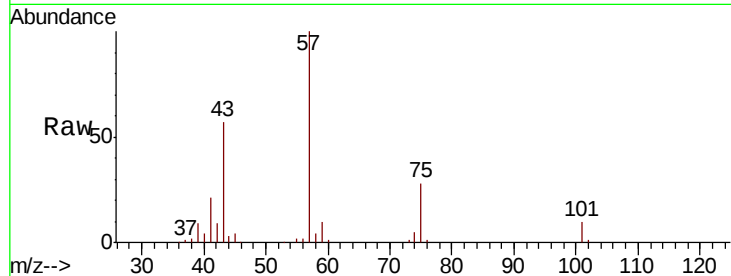


#54

cis-1,3-Dichloropropene
Concen: 8.479 ug/l
RT: 9.90 min Scan# 2529
Delta R.T. 0.07 min
Lab File: VN056363.D
Acq: 18 Jun 2019 14:08

Instrument :
MSVOA_N
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
75	100		
77	0.0	25.7	38.5#
39	31.1	35.4	53.0#

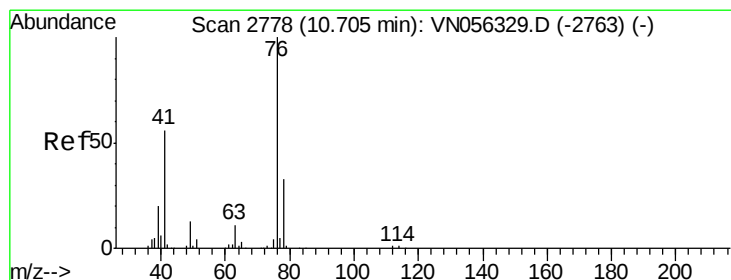
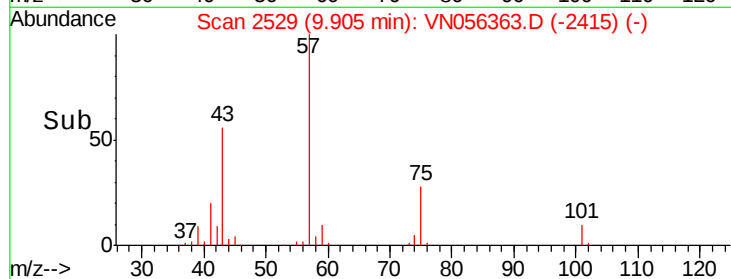
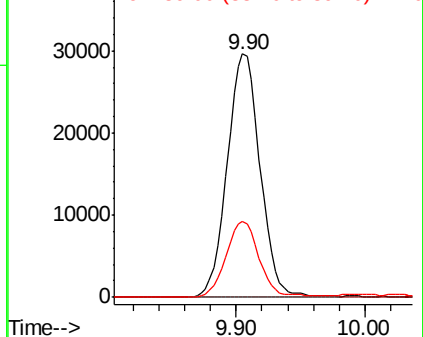


Abundance

Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

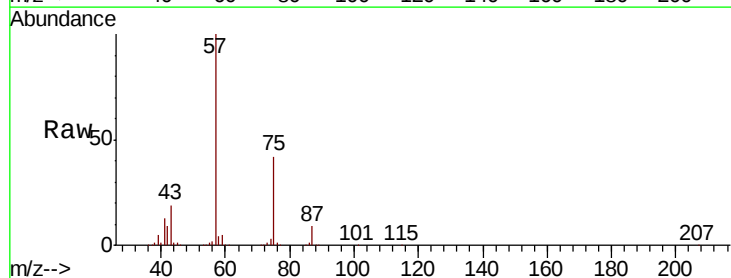
Ion 39.00 (38.70 to 39.70): VN0



#57

1,3-Dichloropropane
Concen: 1.718 ug/l
RT: 10.76 min Scan# 2796
Delta R.T. 0.06 min
Lab File: VN056363.D
Acq: 18 Jun 2019 14:08

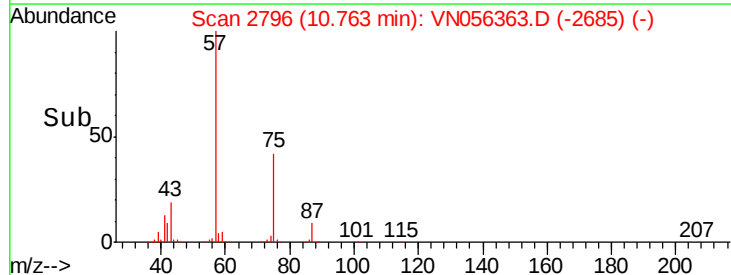
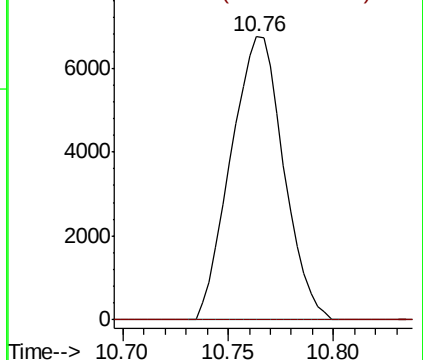
Tgt Ion	Ratio	Lower	Upper
76	100		
78	0.0	26.2	39.2#

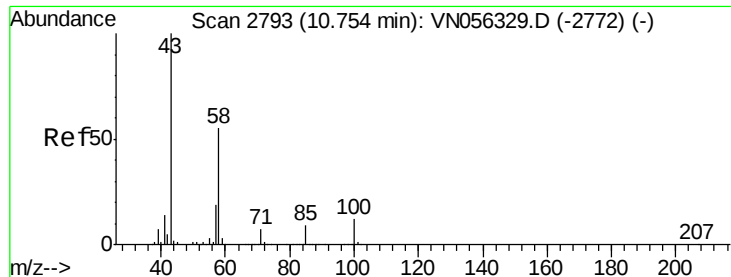


Abundance

Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





#59

2-Hexanone

Concen: 41.909 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN056363.D

Acq: 18 Jun 2019 14:08

Instrument :

MSVOA_N

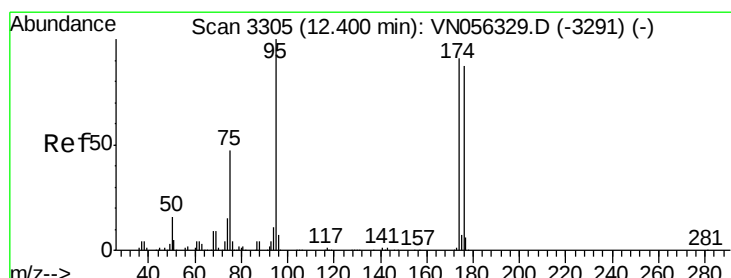
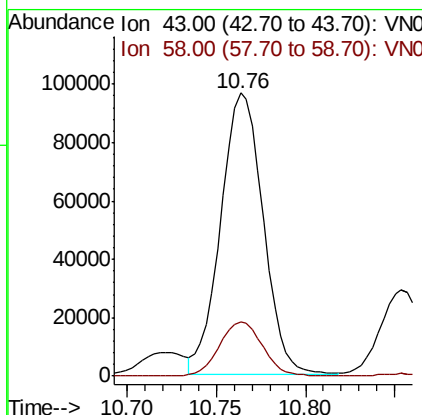
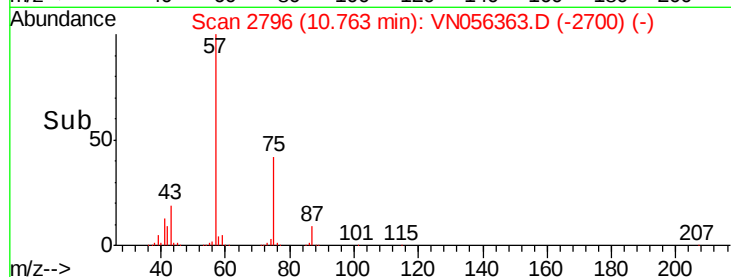
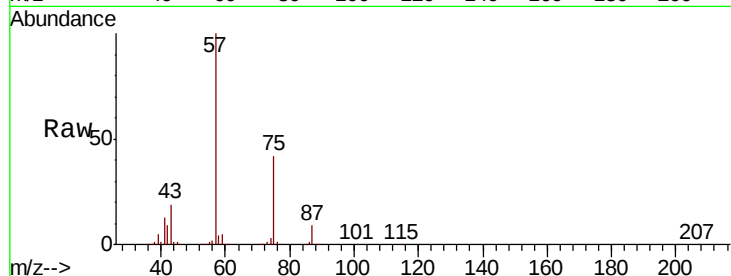
ClientSampled :

Tot Ion: 43 Resp: 159687

Ion Ratio Lower Upper

43 100

58 19.6 27.8 83.4#



#62

4-Bromofluorobenzene

Concen: 52.143 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.00 min

Lab File: VN056363.D

Acq: 18 Jun 2019 14:08

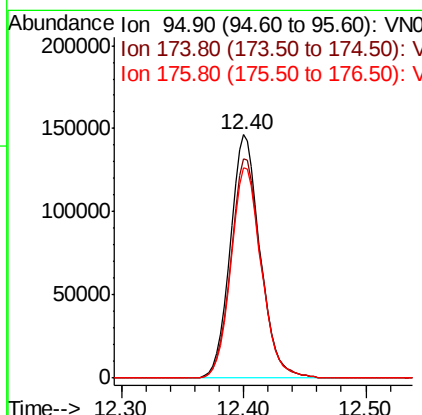
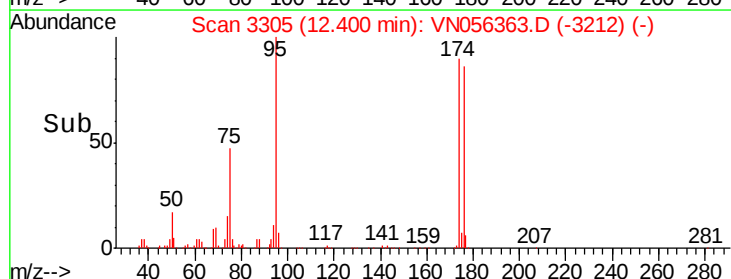
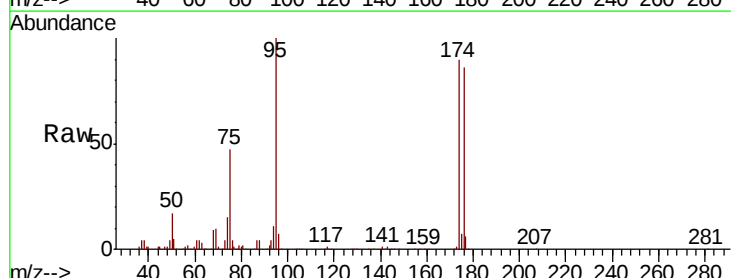
Tgt Ion: 95 Resp: 250135

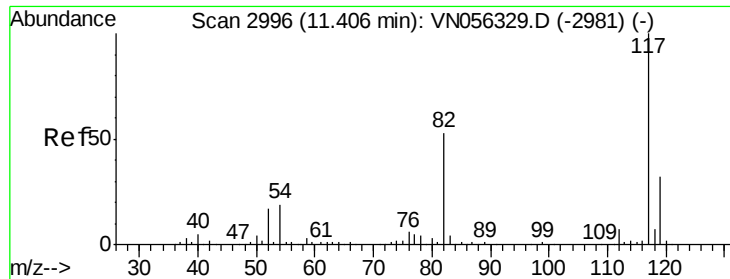
Ion Ratio Lower Upper

95 100

174 91.1 0.0 182.6

176 87.7 0.0 176.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.41 min Scan# 2996

Delta R.T. 0.00 min

Lab File: VN056363.D

Acq: 18 Jun 2019 14:08

Instrument :

MSVOA_N

ClientSampled :

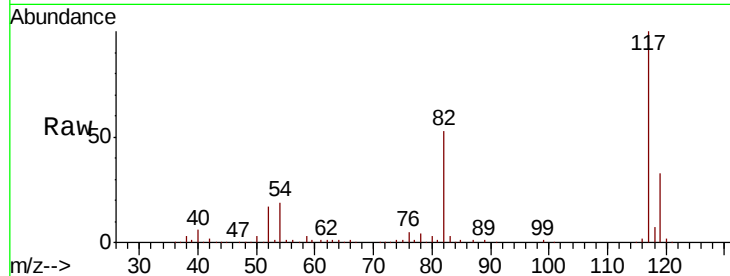
Tot Ion:117 Resp: 606137

Ion Ratio Lower Upper

117 100

82 53.0 42.4 63.6

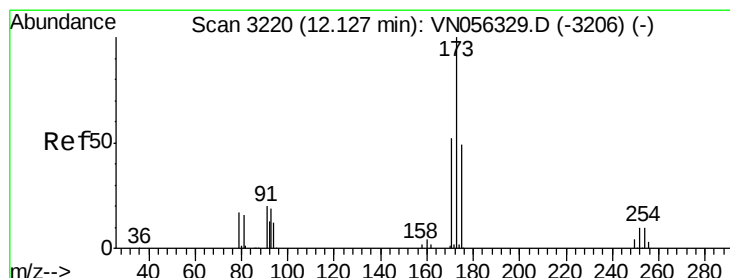
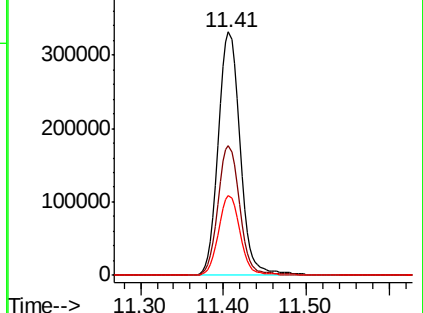
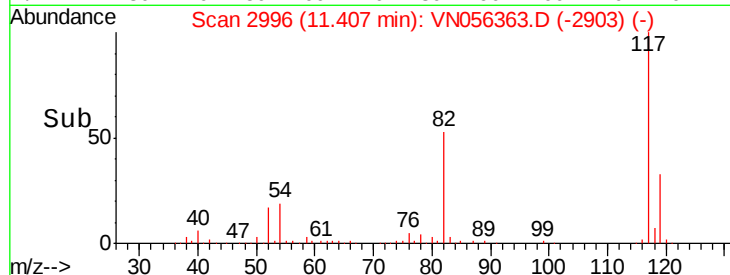
119 32.8 26.0 39.0



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: 0.446 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN056363.D

Acq: 18 Jun 2019 14:08

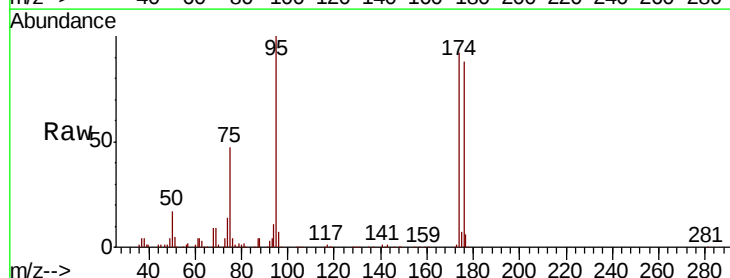
Tgt Ion:173 Resp: 1593

Ion Ratio Lower Upper

173 100

175 925.0 24.3 73.0#

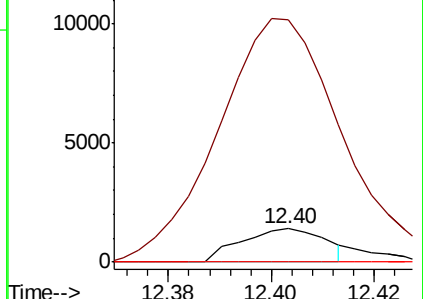
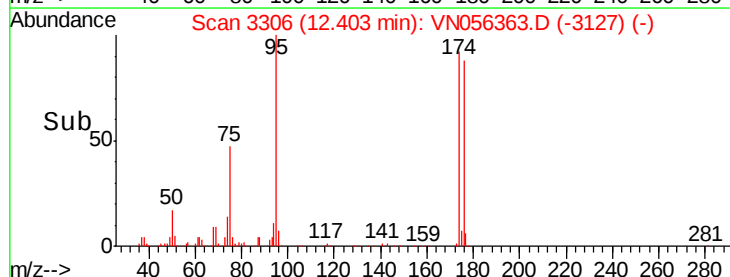
254 0.0 0.0 0.0

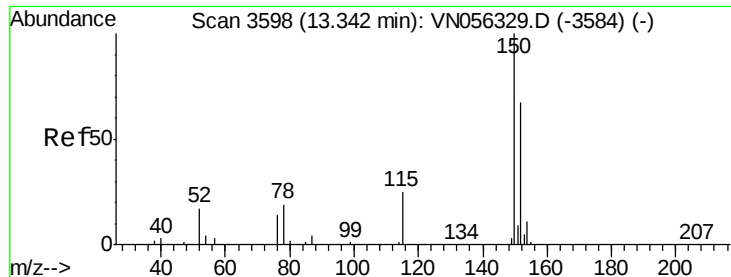


Abundance Ion 172.70 (172.40 to 173.40): V

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: VN056363.D

Acq: 18 Jun 2019 14:08

Instrument :

MSVOA_N

ClientSampleId :

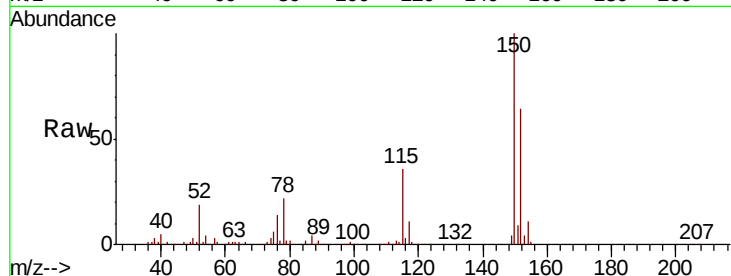
Tot Ion:152 Resp: 190052

Ion Ratio Lower Upper

152 100

115 56.7 27.8 83.3

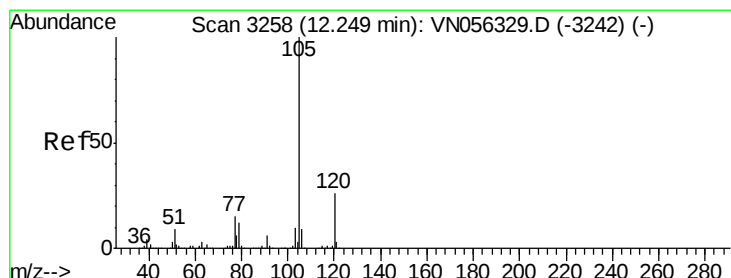
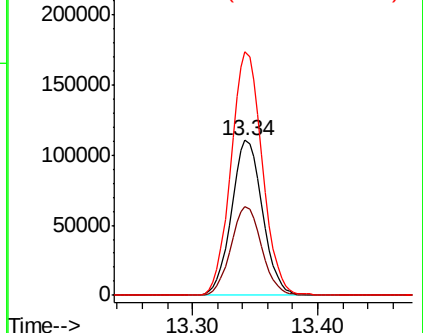
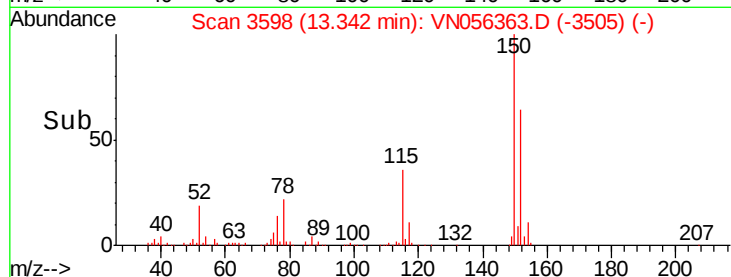
150 158.3 0.0 345.8



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



#73

Isopropylbenzene

Concen: Below Cal

RT: 12.40 min Scan# 3305

Delta R.T. 0.15 min

Lab File: VN056363.D

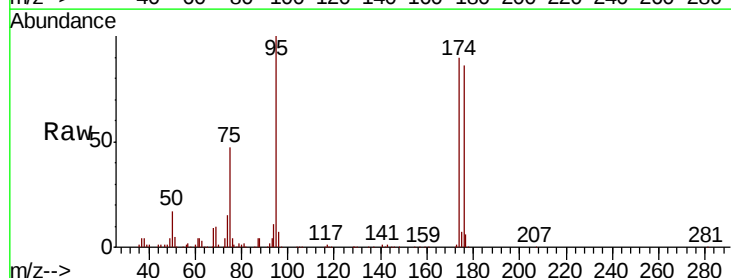
Acq: 18 Jun 2019 14:08

Tgt Ion:105 Resp: 187

Ion Ratio Lower Upper

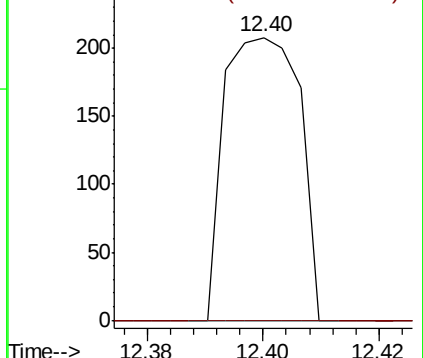
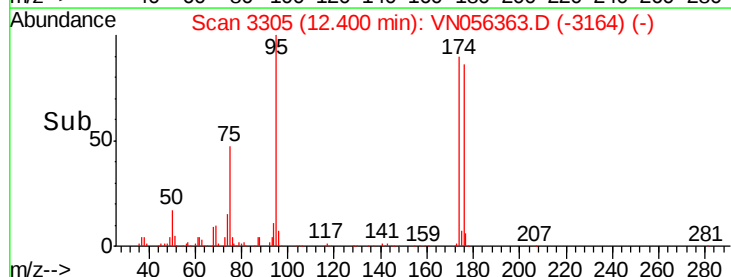
105 100

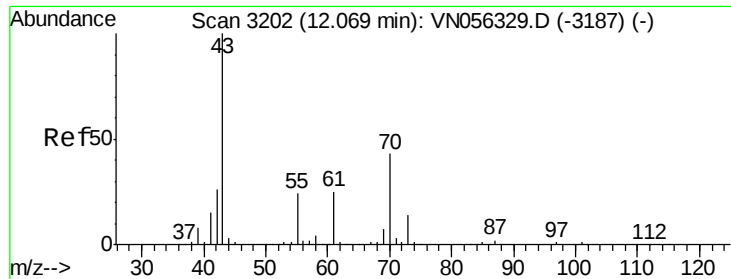
120 0.0 13.3 39.8#



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#74

N-amvl acetate

Concen: 2.300 ug/l

RT: 11.88 min Scan# 3142

Delta R.T. -0.19 min

Lab File: VN056363.D

Acq: 18 Jun 2019 14:08

Instrument :

MSVOA_N

ClientSampled :

Tot Ion: 43 Resp: 13734

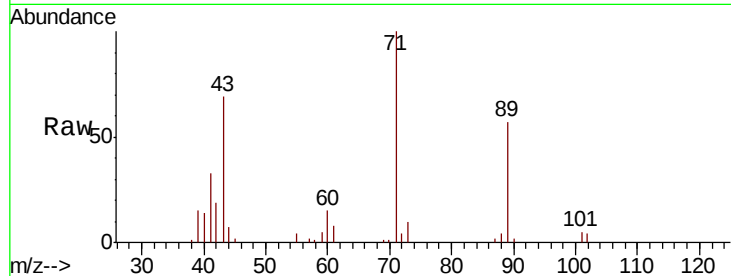
Ion Ratio Lower Upper

43 100

70 0.8 34.2 51.2#

55 4.5 19.9 29.9#

61 10.6 19.7 29.5#

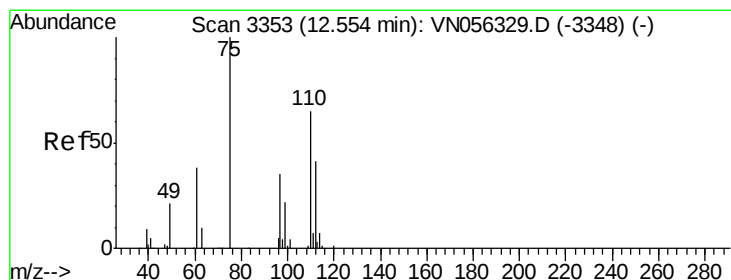
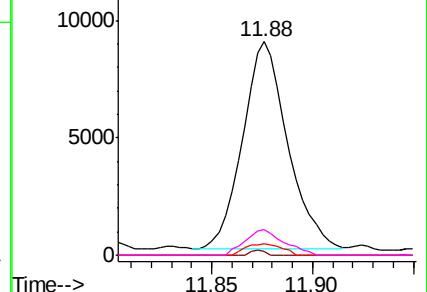
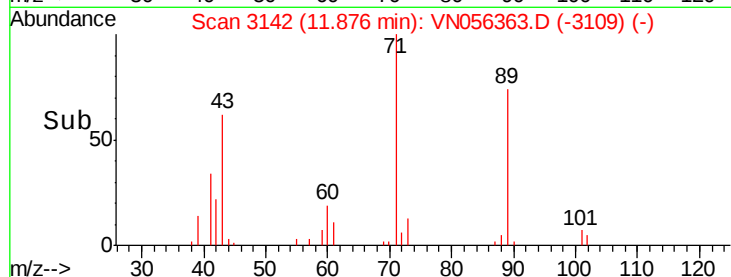


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 70.00 (69.70 to 70.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

Ion 61.00 (60.70 to 61.70): VN0



#76

1,2,3-Trichloropropane

Concen: 29.107 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN056363.D

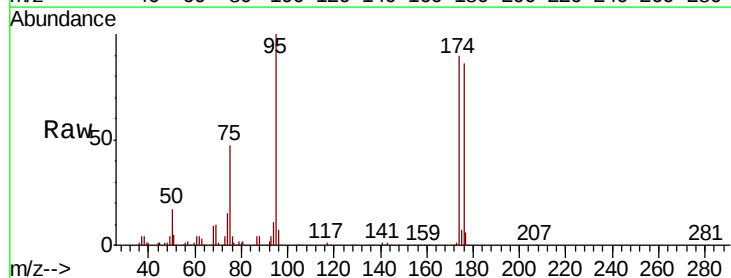
Acq: 18 Jun 2019 14:08

Tgt Ion: 75 Resp: 118188

Ion Ratio Lower Upper

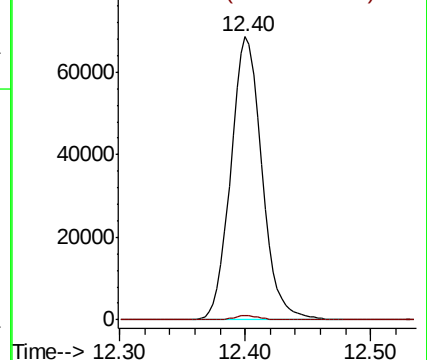
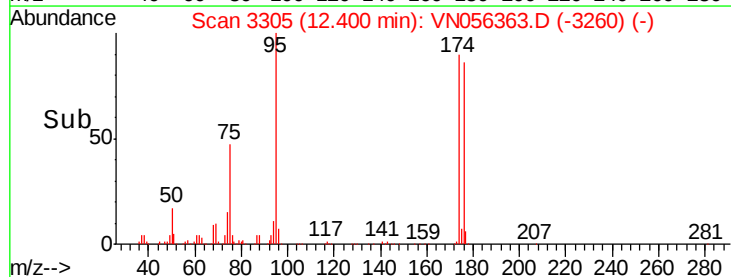
75 100

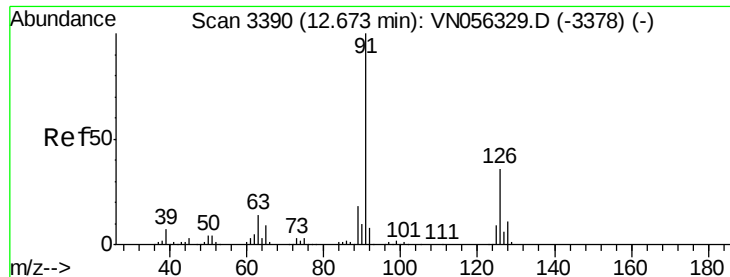
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#79

2-Chlorotoluene

Concen: Below Cal

RT: 12.73 min Scan# 3409

Delta R.T. 0.06 min

Lab File: VN056363.D

Acq: 18 Jun 2019 14:08

Instrument :

MSVOA_N

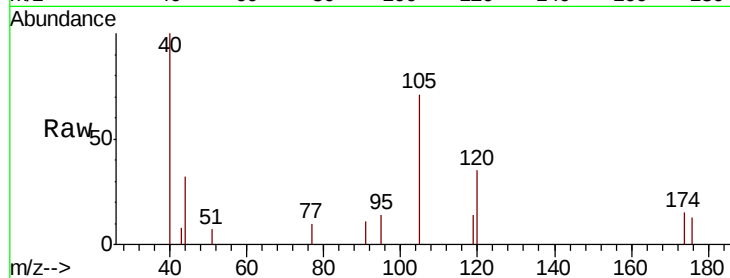
ClientSampled :

Tot Ion: 91 Resp: 186

Ion Ratio Lower Upper

91 100

126 0.0 18.0 54.0#



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 125.90 (125.60 to 126.60): V

12.73

250

200

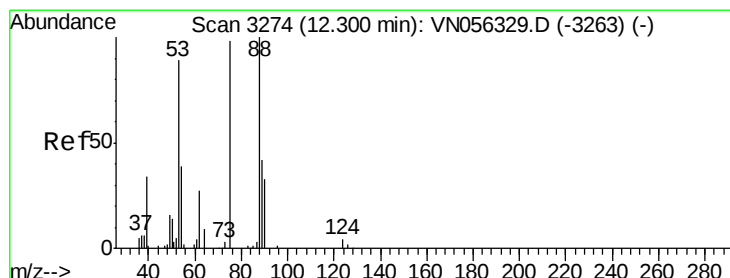
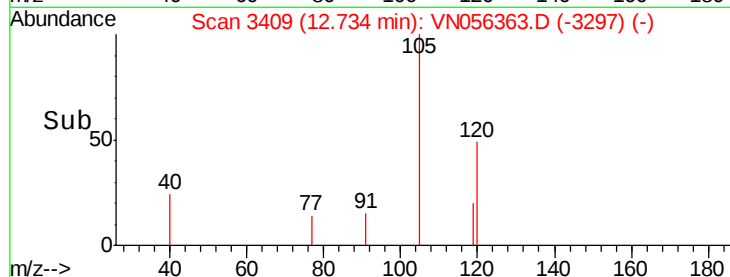
150

100

50

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 90.431 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN056363.D

Acq: 18 Jun 2019 14:08

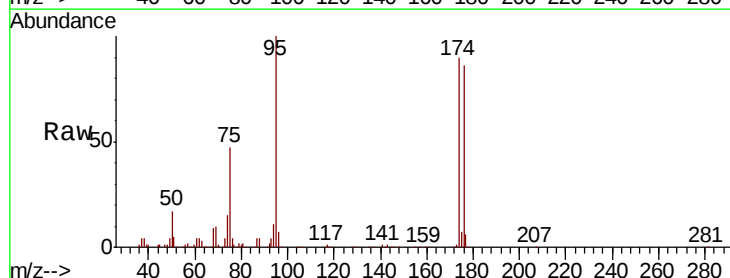
Tgt Ion: 75 Resp: 118188

Ion Ratio Lower Upper

75 100

53 0.0 73.5 110.3#

89 0.0 35.4 53.2#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

12.40

80000

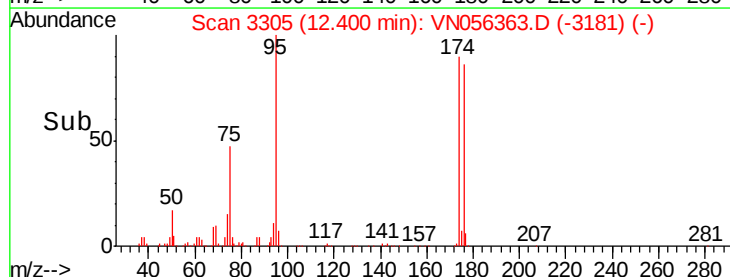
60000

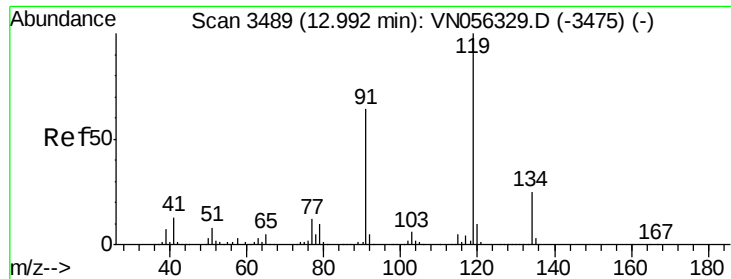
40000

20000

0

Time-->

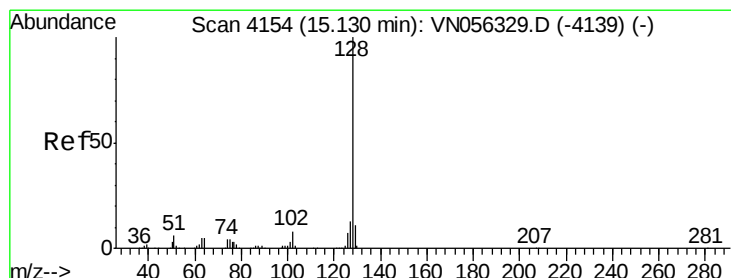
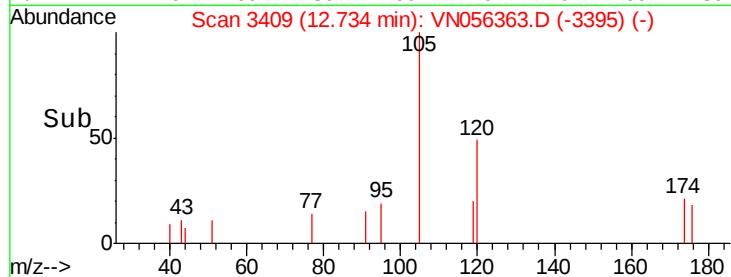
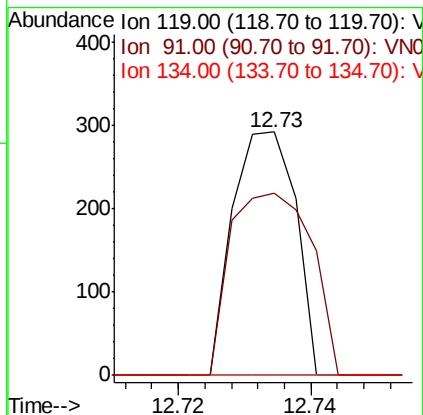
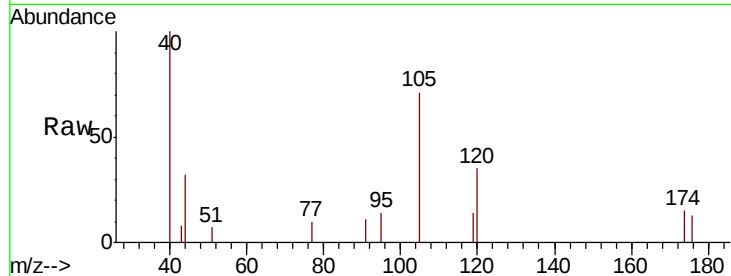




#83
 tert-Butylbenzene
 Concen: Below Cal
 RT: 12.73 min Scan# 3409
 Delta R.T. -0.26 min
 Lab File: VN056363.D
 Acq: 18 Jun 2019 14:08

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion	Ratio	Lower	Upper
119	100		
91	96.9	31.5	94.5#
134	0.0	13.6	40.7#



#95
 Naphthalene
 Concen: 4.735 ug/l
 RT: 15.14 min Scan# 4157
 Delta R.T. 0.01 min
 Lab File: VN056363.D
 Acq: 18 Jun 2019 14:08

Tgt Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.6	15.8#
129	0.0	8.6	12.8#

