

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN022520\
 Data File : VN060233.D
 Acq On : 25 Feb 2020 14:50
 Operator : JC/MD
 Sample : PB127055ZHE#14
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127055ZHE#14

Quant Time: Feb 25 15:48:06 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Feb 12 14:12:21 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.65	168	183097	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	286324	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	271418	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	124745	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	107172	48.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.20%	
35) Dibromofluoromethane	7.57	113	86845	49.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.68%	
50) Toluene-d8	10.08	98	347172	50.09	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.18%	
62) 4-Bromofluorobenzene	12.40	95	126779	49.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.56%	

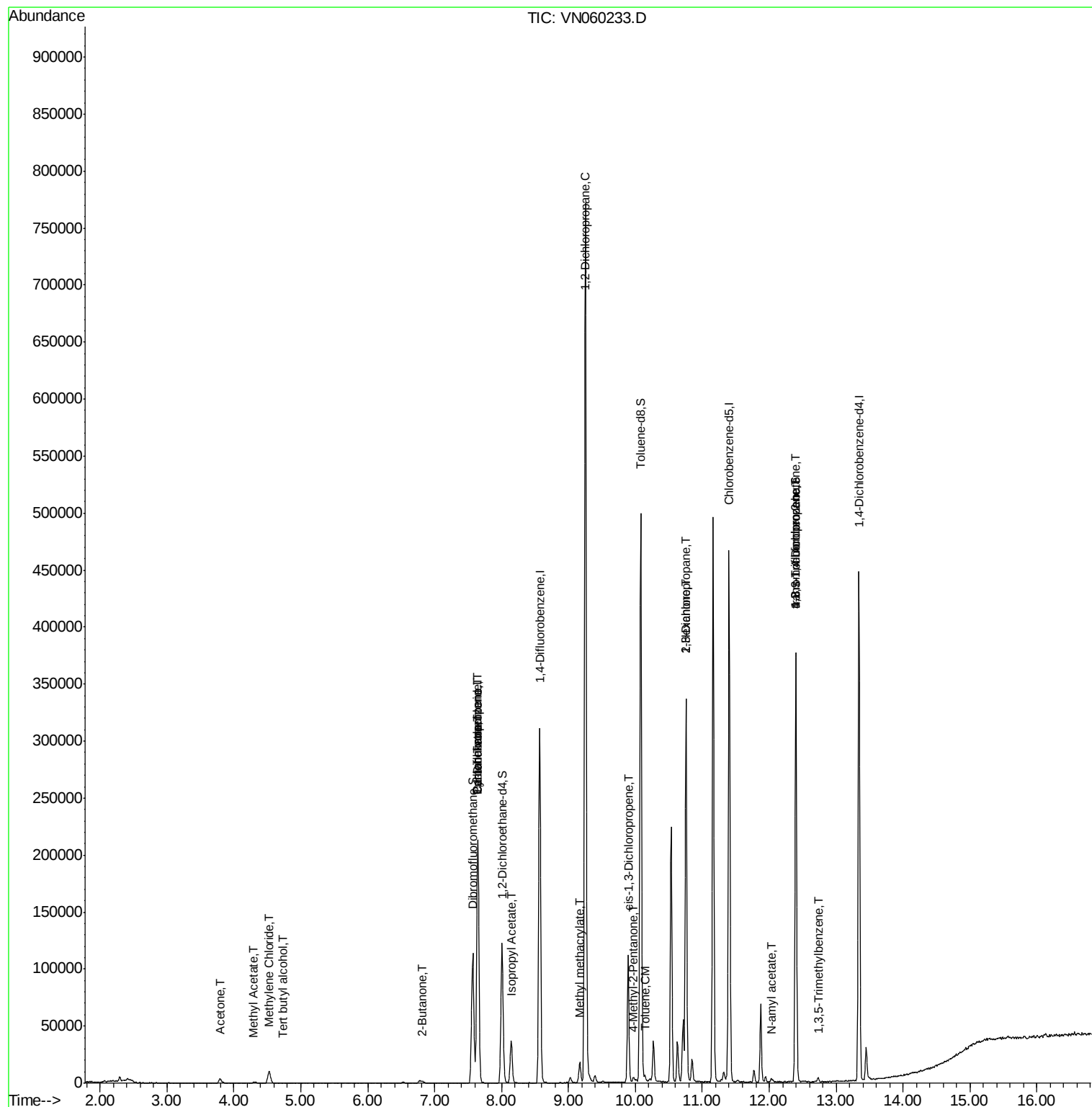
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	155	0.46	ug/l #	72
16) Acetone	3.80	43	7374	7.59	ug/l	92
18) Methyl Acetate	4.30	43	690	0.38	ug/l #	50
20) Methylene Chloride	4.53	84	8321	4.29	ug/l	93
25) 2-Butanone	6.81	43	2436	1.99	ug/l #	89
31) Cyclohexane	7.64	56	3653	1.16	ug/l #	19
36) 1,1-Dichloropropene	7.64	75	13243	4.99	ug/l #	49
38) Carbon Tetrachloride	7.65	117	16787	5.83	ug/l #	15
43) Isopropyl Acetate	8.14	43	44060	10.75	ug/l #	89
45) 1,2-Dichloropropane	9.25	63	972	0.50	ug/l #	43
48) Methyl methacrylate	9.16	41	2771	1.51	ug/l #	9
51) 4-Methyl-2-Pentanone	9.97	43	3030	1.28	ug/l	90
52) Toluene	10.14	92	2315	0.46	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	20320	6.11	ug/l #	62
57) 1,3-Dichloropropane	10.75	76	3414	1.05	ug/l #	43
59) 2-Hexanone	10.76	43	48952	26.72	ug/l #	52
74) N-amyl acetate	12.03	43	2408	0.72	ug/l #	43
76) 1,2,3-Trichloropropane	12.40	75	65406	27.41	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2570	0.33	ug/l	89
81) trans-1,4-Dichloro-2-buten	12.40	75	65406	67.10	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.26	75	31	Below Cal	#	1

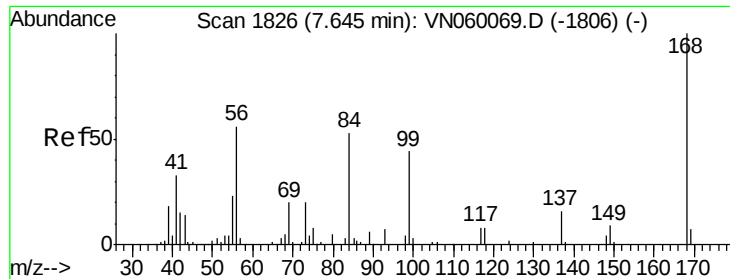
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Feb 12 14:12:21 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.65 min Scan# 1827

Delta R.T. 0.00 min

Lab File: VN060233.D

Acq: 25 Feb 2020 14:50

Instrument :

MSVOA_N

ClientSampleId :

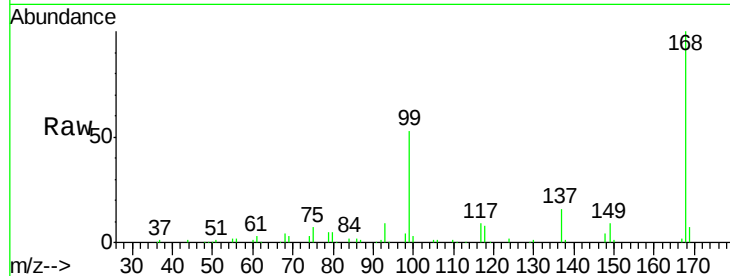
PB127055ZHE#14

Tgt Ion:168 Resp: 183097

Ion Ratio Lower Upper

168 100

99 52.9 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.65

80000

60000

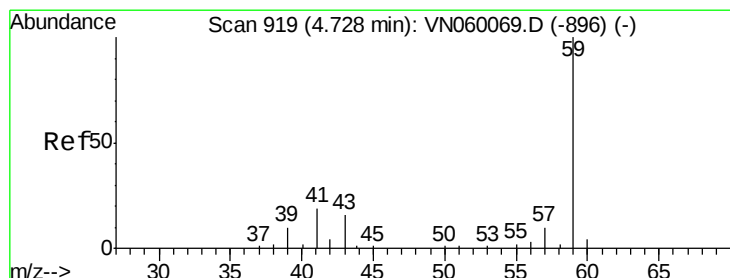
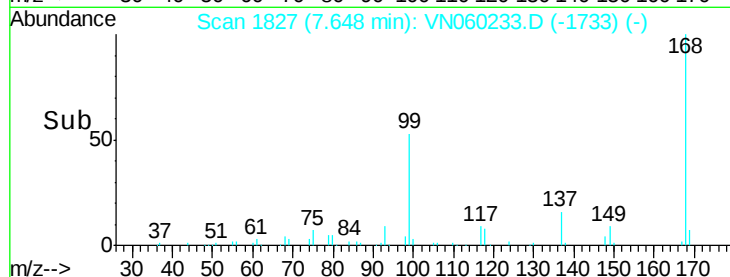
40000

20000

0

7.60 7.70 7.80

Time-->



#11

Tert butyl alcohol

Concen: 0.46 ug/l

RT: 4.73 min Scan# 921

Delta R.T. 0.01 min

Lab File: VN060233.D

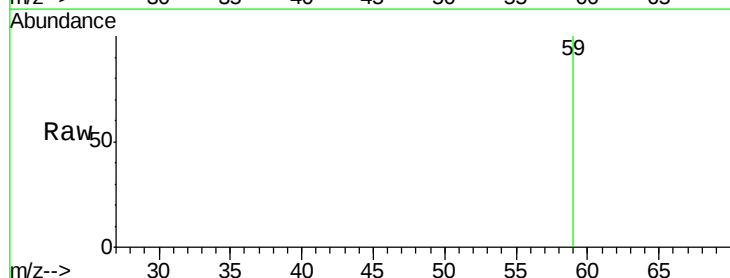
Acq: 25 Feb 2020 14:50

Tgt Ion: 59 Resp: 155

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VN0

Ion 57.00 (56.70 to 57.70): VN0

4.73

250

200

150

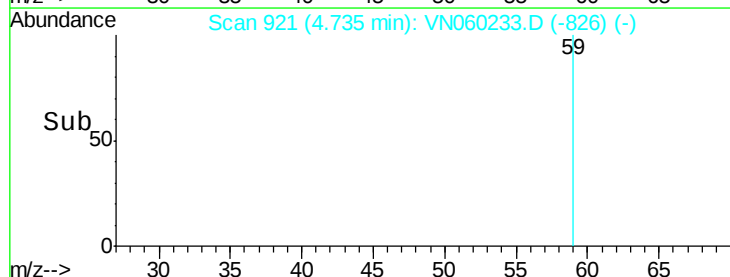
100

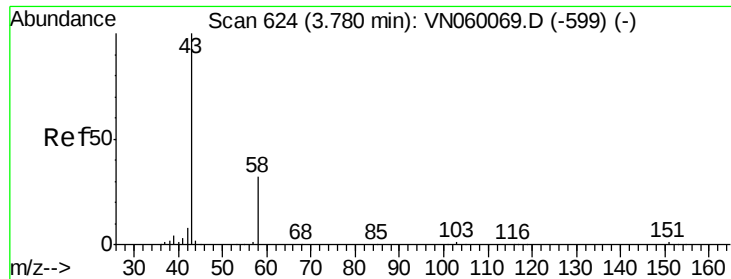
50

0

4.72 4.73 4.74 4.75

Time-->





#16

Acetone

Concen: 7.59 ug/l

RT: 3.80 min Scan# 629

Delta R.T. 0.02 min

Lab File: VN060233.D

Acq: 25 Feb 2020 14:50

Instrument :

MSVOA_N

ClientSampleId :

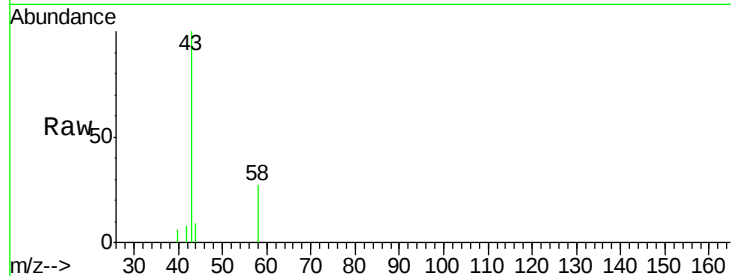
PB127055ZHE#14

Tgt Ion: 43 Resp: 7374

Ion Ratio Lower Upper

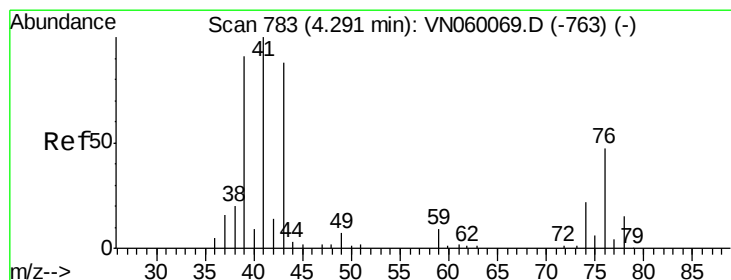
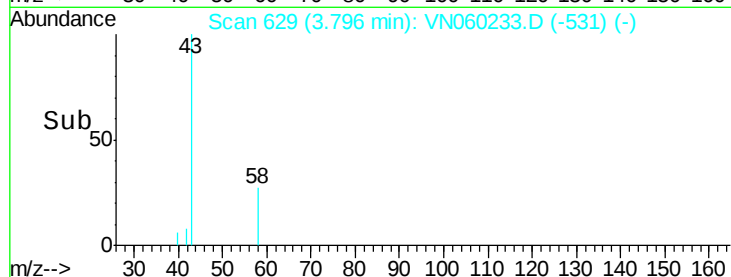
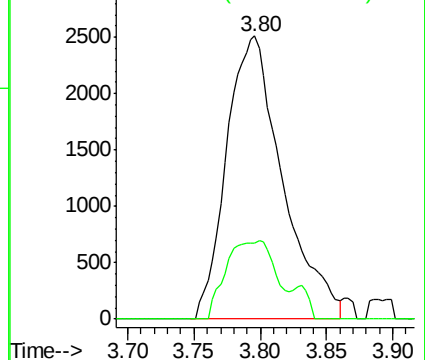
43 100

58 26.8 25.2 37.8



Abundance Ion 43.00 (42.70 to 43.70): VN060233.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060233.D (-531) (-)



#18

Methyl Acetate

Concen: 0.38 ug/l

RT: 4.30 min Scan# 785

Delta R.T. 0.01 min

Lab File: VN060233.D

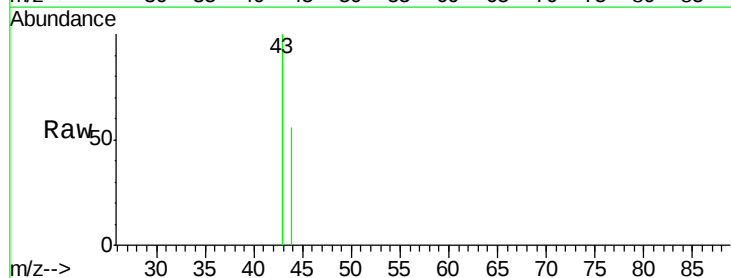
Acq: 25 Feb 2020 14:50

Tgt Ion: 43 Resp: 690

Ion Ratio Lower Upper

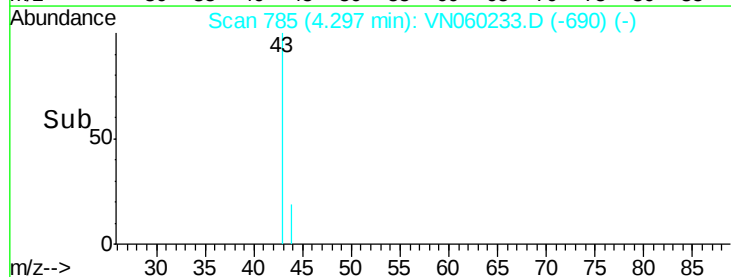
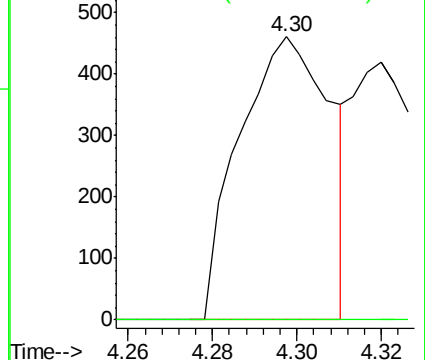
43 100

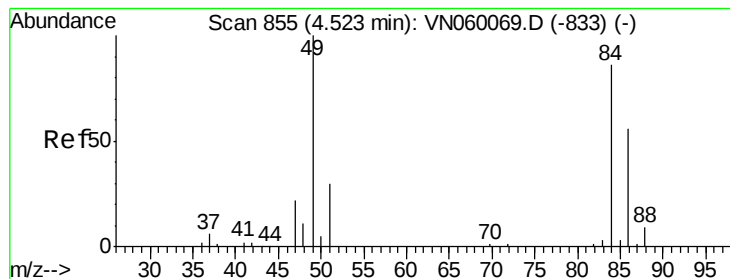
74 0.0 20.3 30.5#



Abundance Ion 43.00 (42.70 to 43.70): VN060233.D (-690) (-)

Ion 74.00 (73.70 to 74.70): VN060233.D (-690) (-)





#20

Methylene Chloride

Concen: 4.29 ug/l

RT: 4.53 min Scan# 857

Delta R.T. 0.01 min

Lab File: VN060233.D

Acq: 25 Feb 2020 14:50

Instrument :

MSVOA_N

ClientSampleId :

PB127055ZHE#14

Tgt Ion: 84 Resp: 8321

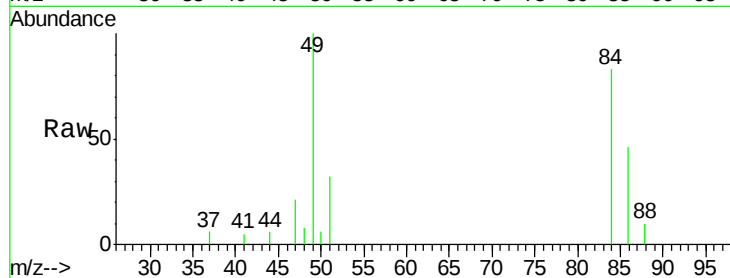
Ion Ratio Lower Upper

84 100

49 120.8 93.4 140.0

51 38.8 28.4 42.6

86 55.5 52.5 78.7

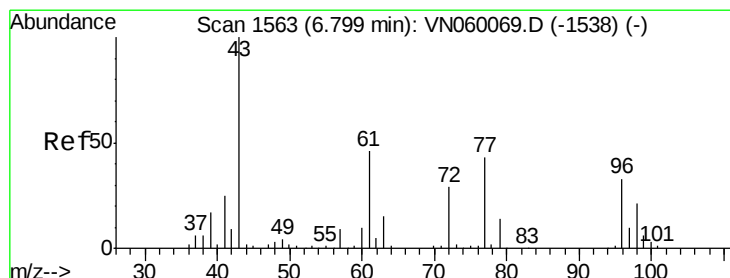
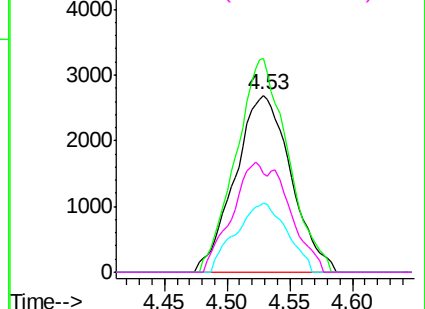
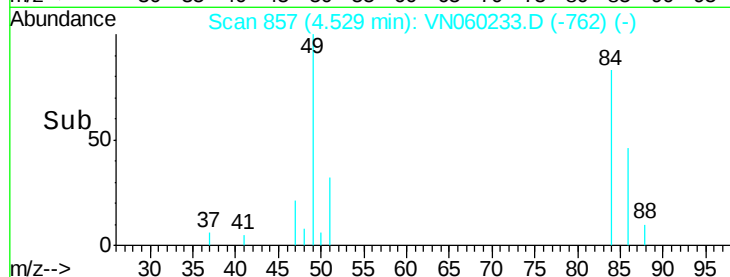


Abundance Ion 83.90 (83.60 to 84.60): VN0

Ion 48.90 (48.60 to 49.60): VN0

Ion 50.90 (50.60 to 51.60): VN0

Ion 85.90 (85.60 to 86.60): VN0



#25

2-Butanone

Concen: 1.99 ug/l

RT: 6.81 min Scan# 1568

Delta R.T. 0.02 min

Lab File: VN060233.D

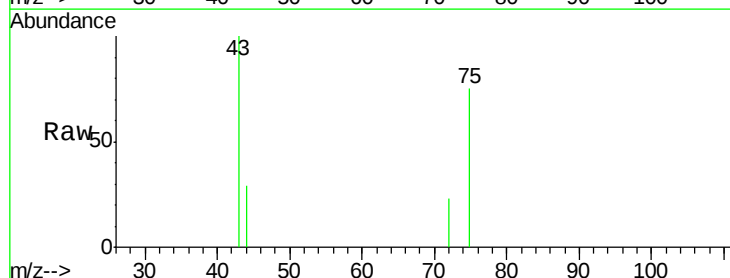
Acq: 25 Feb 2020 14:50

Tgt Ion: 43 Resp: 2436

Ion Ratio Lower Upper

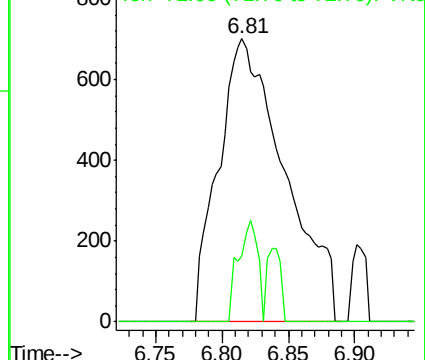
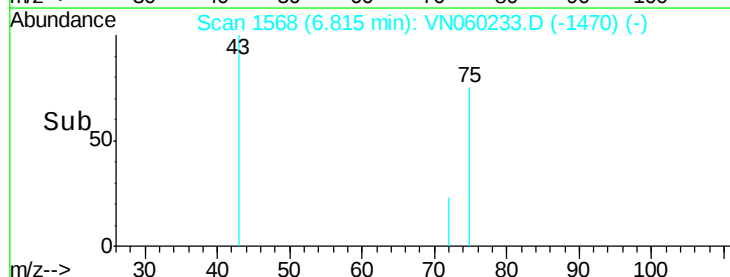
43 100

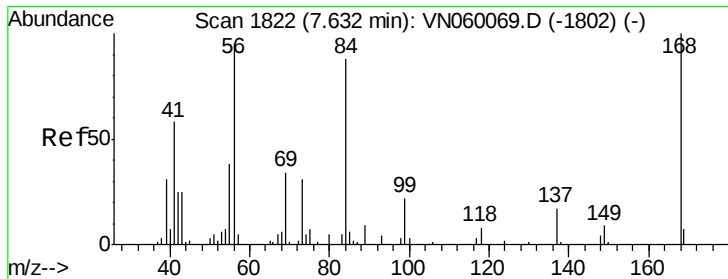
72 23.3 23.3 34.9#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

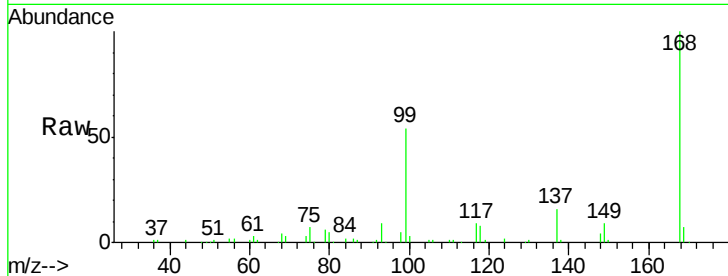




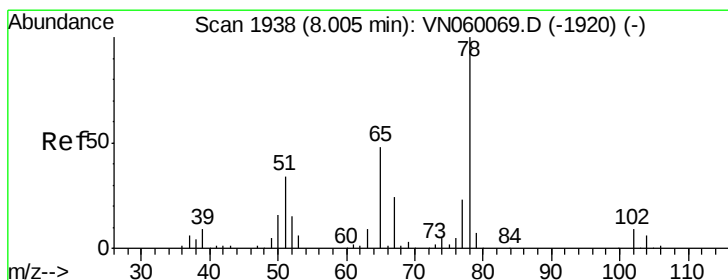
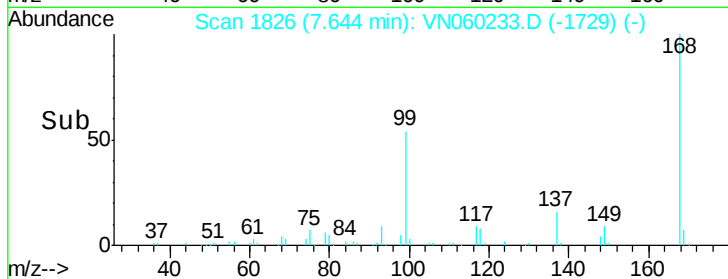
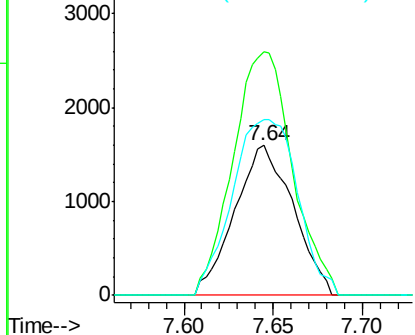
#31
Cyclohexane
Concen: 1.16 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. 0.01 min
Lab File: VN060233.D
Acq: 25 Feb 2020 14:50

Instrument :
MSVOA_N
ClientSampleId :
PB127055ZHE#14

Tgt Ion: 56 Resp: 3653
Ion Ratio Lower Upper
56 100
69 162.3 28.3 42.5#
84 117.6 72.6 108.8#

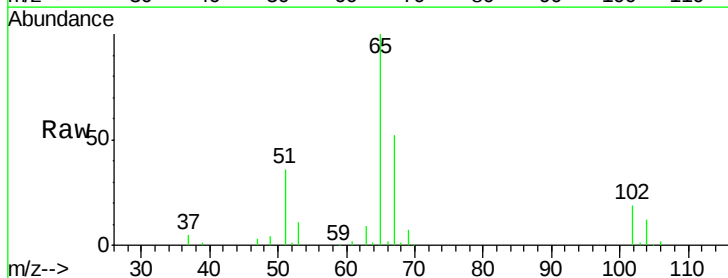


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

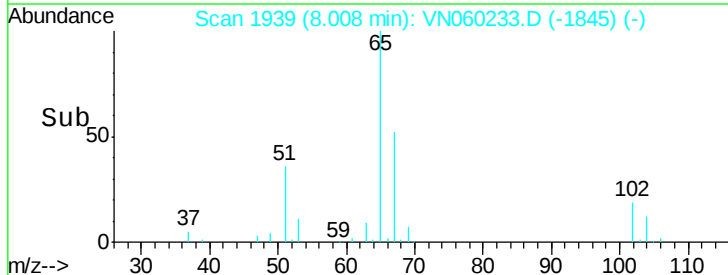
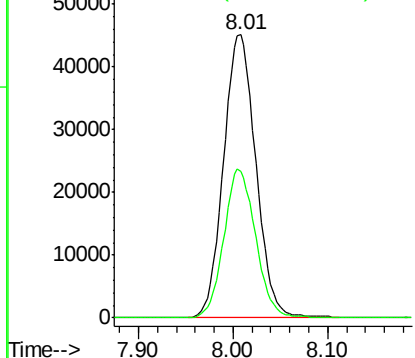


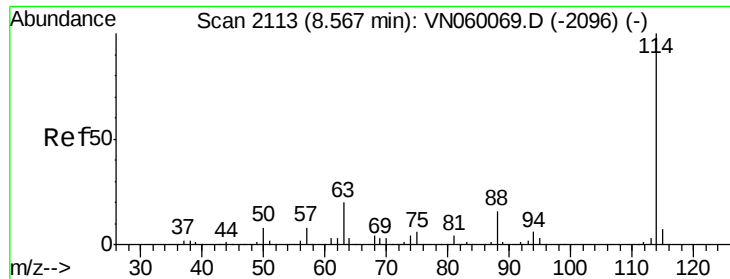
#33
1,2-Dichloroethane-d4
Concen: 48.10 ug/l
RT: 8.01 min Scan# 1939
Delta R.T. 0.00 min
Lab File: VN060233.D
Acq: 25 Feb 2020 14:50

Tgt Ion: 65 Resp: 107172
Ion Ratio Lower Upper
65 100
67 51.5 0.0 104.0



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

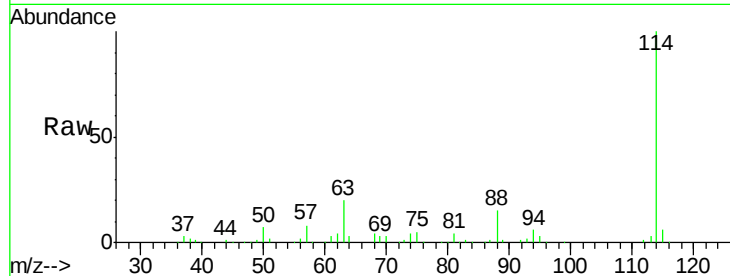




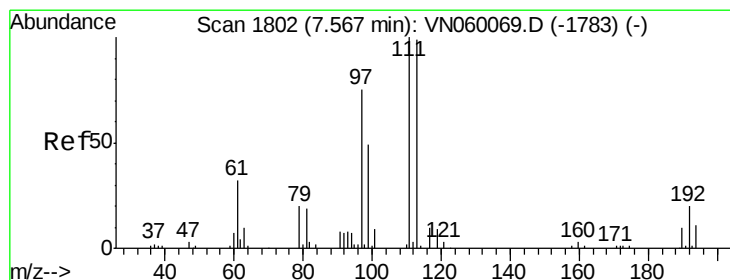
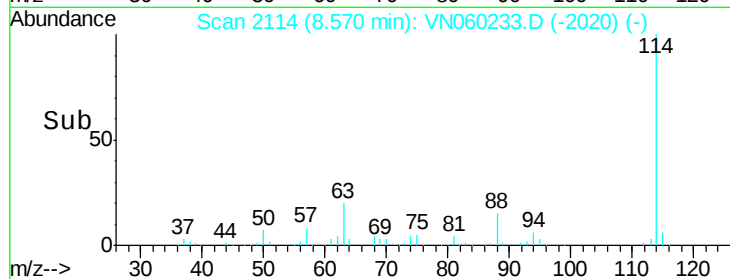
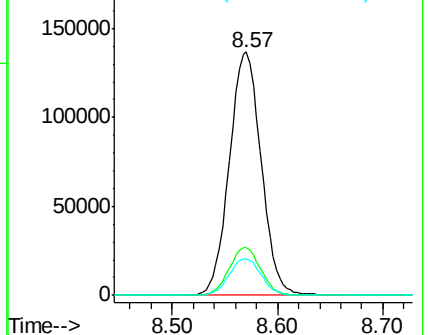
#34
1,4-Difluorobenzene
Concen: 50.00 ug/l
RT: 8.57 min Scan# 2114
Delta R.T. 0.00 min
Lab File: VN060233.D
Acq: 25 Feb 2020 14:50

Instrument :
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PB127055ZHE#14

Tgt Ion:114 Resp: 286324
Ion Ratio Lower Upper
114 100
63 19.6 0.0 40.0
88 15.0 0.0 31.6

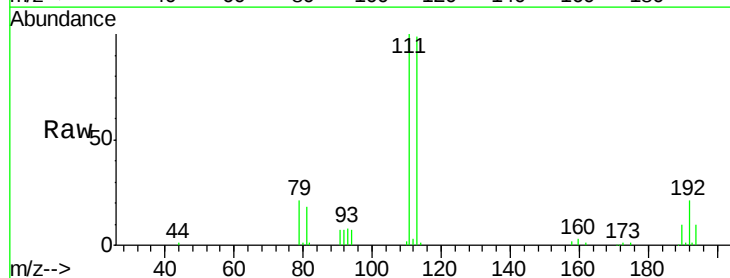


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

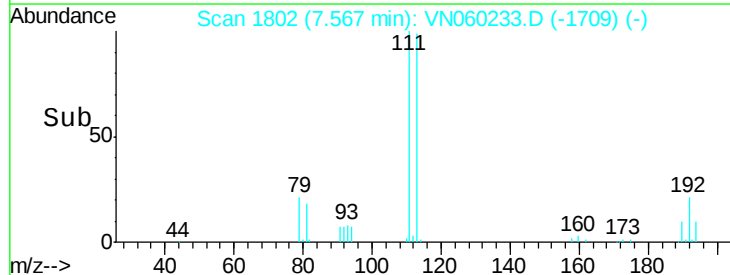
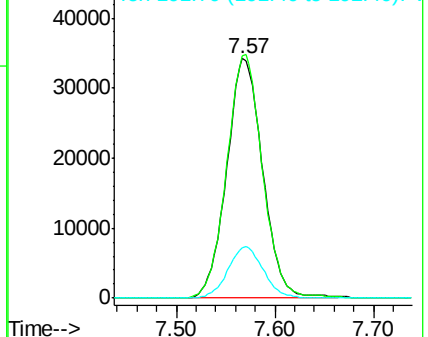


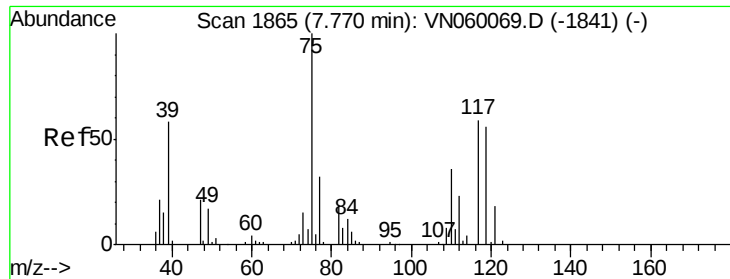
#35
Dibromofluoromethane
Concen: 49.34 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN060233.D
Acq: 25 Feb 2020 14:50

Tgt Ion:113 Resp: 86845
Ion Ratio Lower Upper
113 100
111 101.0 81.4 122.2
192 21.0 16.2 24.2



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

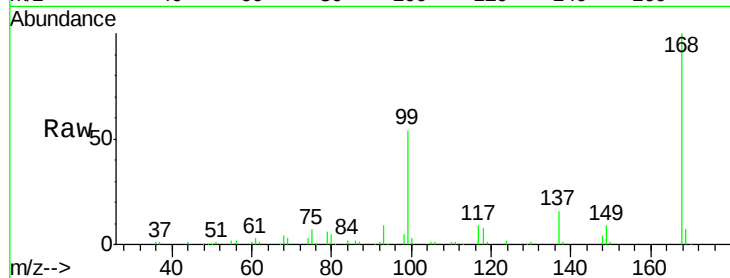




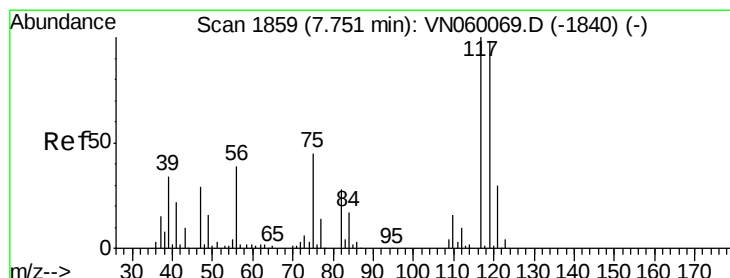
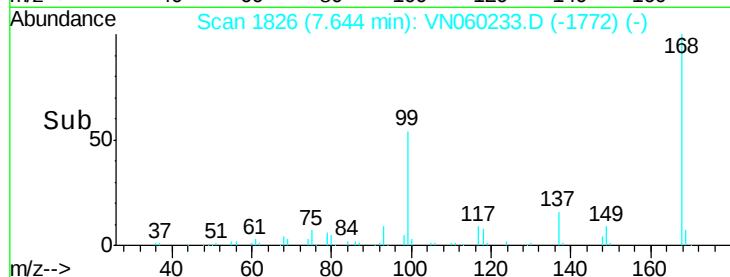
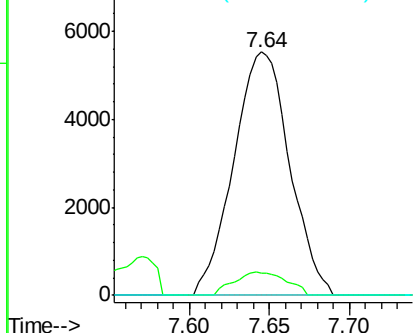
#36
 1,1-Dichloropropene
 Concen: 4.99 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060233.D
 Acq: 25 Feb 2020 14:50

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127055ZHE#14

Tgt Ion: 75 Resp: 13243
 Ion Ratio Lower Upper
 75 100
 110 8.9 18.1 54.3#
 77 0.0 25.1 37.7#

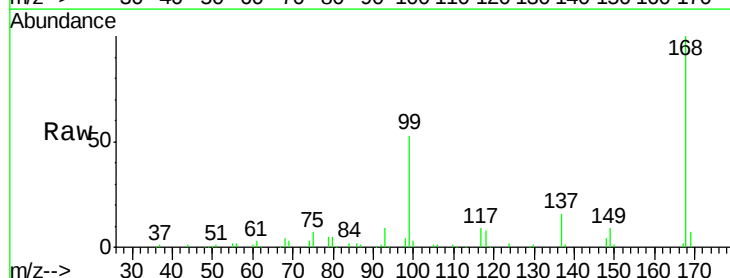


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VN0

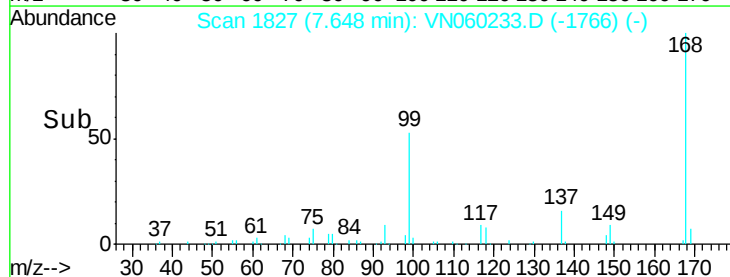
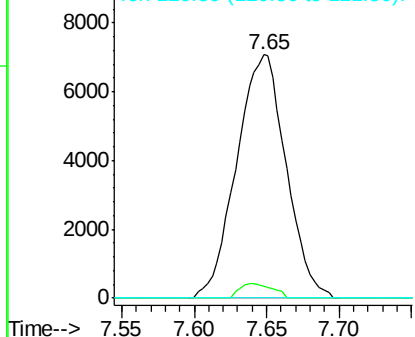


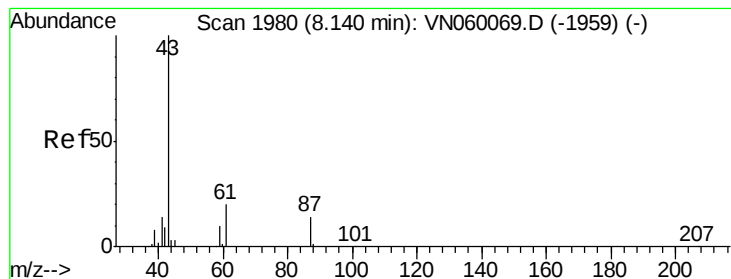
#38
 Carbon Tetrachloride
 Concen: 5.83 ug/l
 RT: 7.65 min Scan# 1827
 Delta R.T. -0.10 min
 Lab File: VN060233.D
 Acq: 25 Feb 2020 14:50

Tgt Ion: 117 Resp: 16787
 Ion Ratio Lower Upper
 117 100
 119 4.9 78.2 117.4#
 121 0.0 24.2 36.2#



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: 10.75 ug/l

RT: 8.14 min Scan# 1981

Delta R.T. 0.00 min

Lab File: VN060233.D

Acq: 25 Feb 2020 14:50

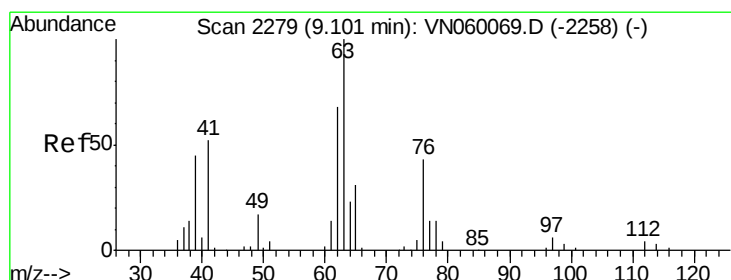
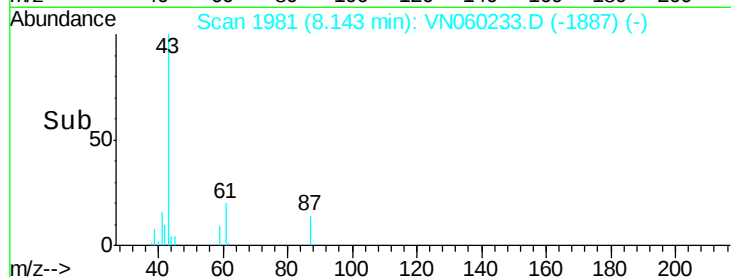
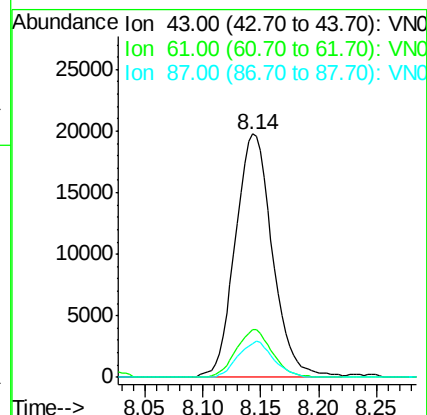
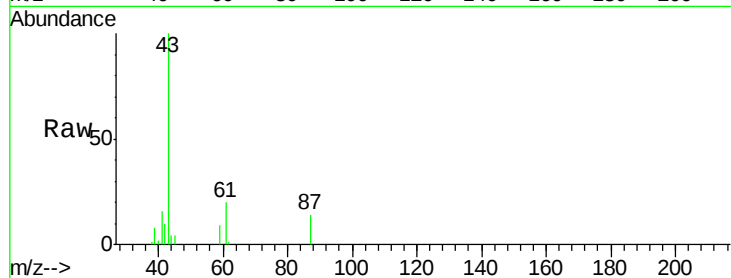
Instrument :

MSVOA_N

ClientSampleId :

PB127055ZHE#14

Tgt Ion:	43	Resp:	44060
Ion	Ratio	Lower	Upper
43	100		
61	19.1	21.8	32.6#
87	14.0	11.4	17.2



#45

1,2-Dichloropropane

Concen: 0.50 ug/l

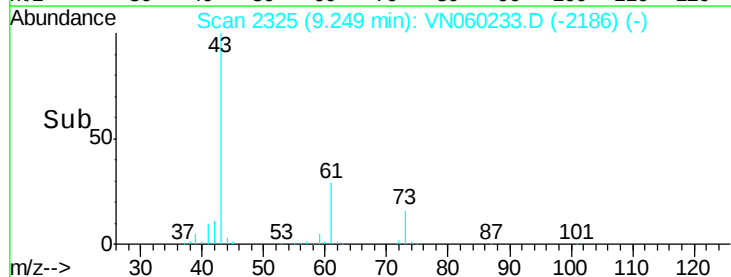
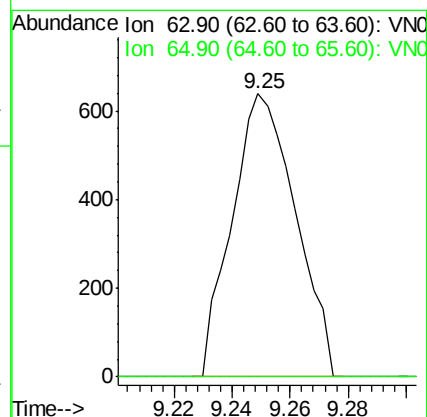
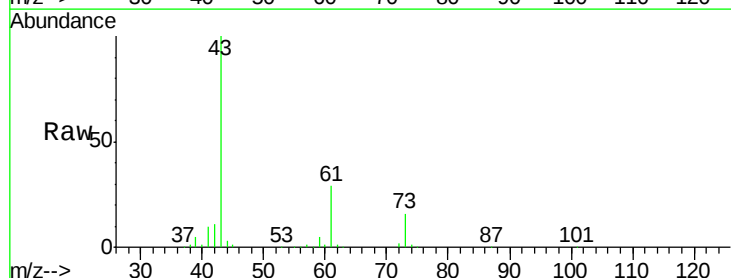
RT: 9.25 min Scan# 2325

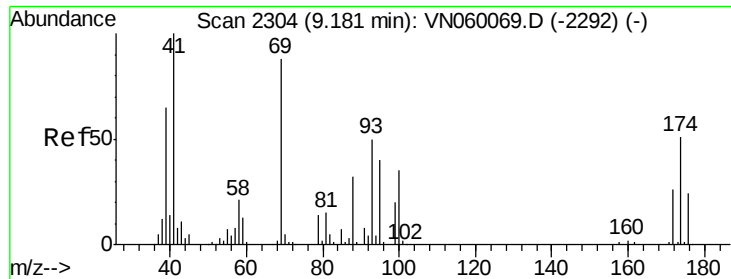
Delta R.T. 0.15 min

Lab File: VN060233.D

Acq: 25 Feb 2020 14:50

Tgt Ion:	63	Resp:	972
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.0	37.4#

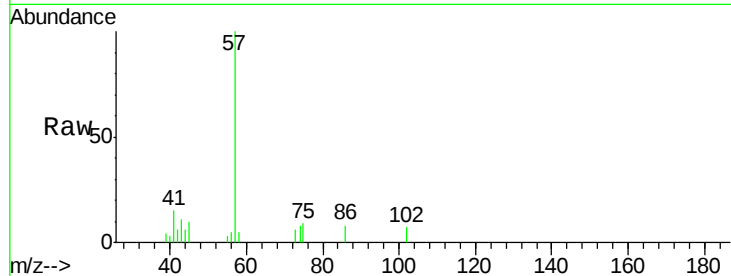




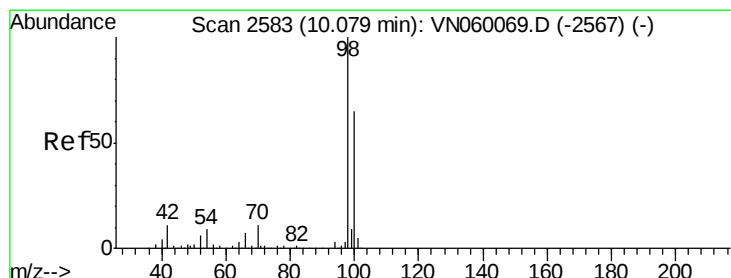
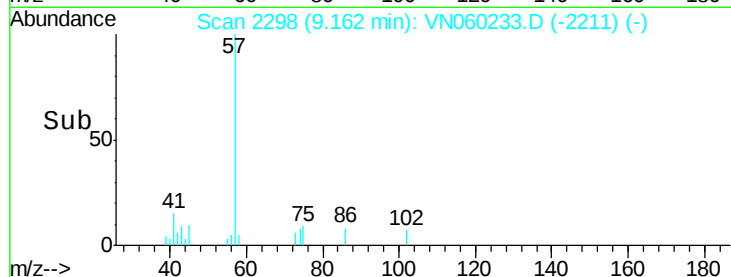
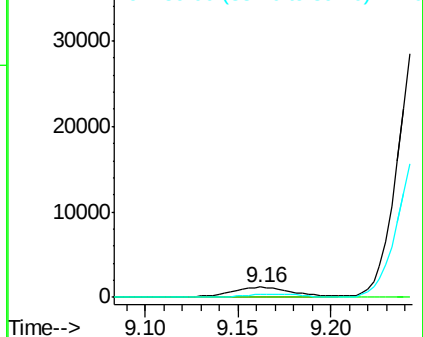
#48
Methyl methacrylate
Concen: 1.51 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060233.D
Acq: 25 Feb 2020 14:50

Instrument :
MSVOA_N
ClientSampleId :
PB127055ZHE#14

Tgt Ion: 41 Resp: 2771
Ion Ratio Lower Upper
41 100
69 0.0 72.0 108.0#
39 0.0 54.1 81.1#

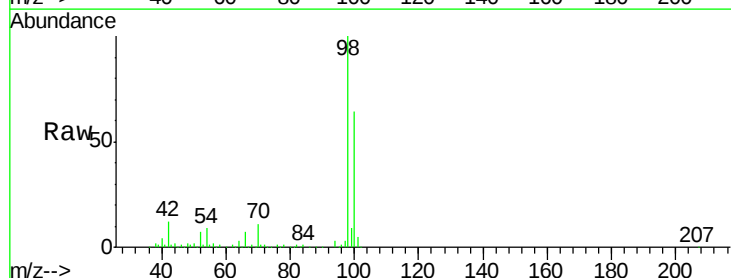


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

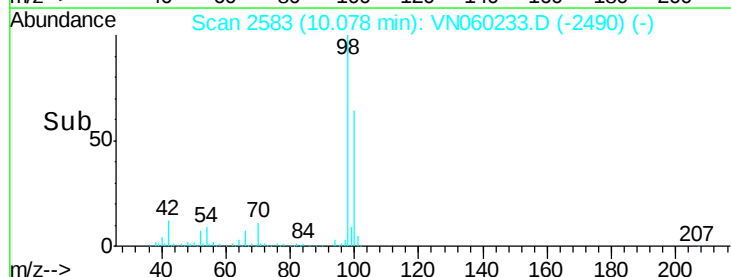
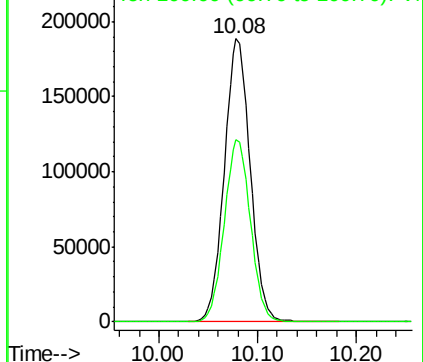


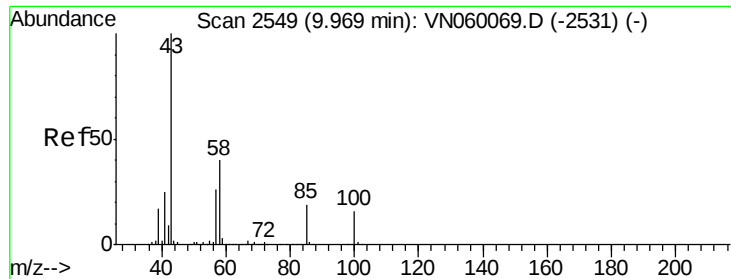
#50
Toluene-d8
Concen: 50.09 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060233.D
Acq: 25 Feb 2020 14:50

Tgt Ion: 98 Resp: 347172
Ion Ratio Lower Upper
98 100
100 65.0 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

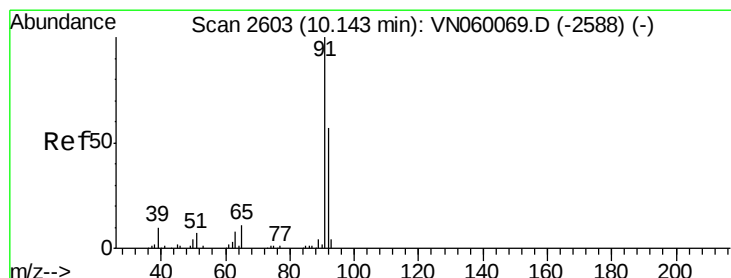
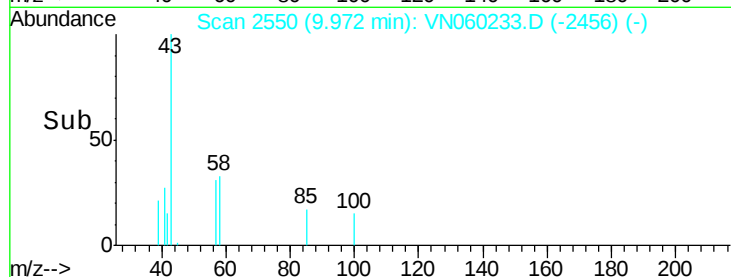
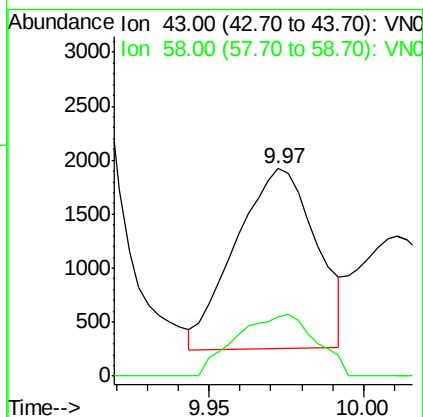
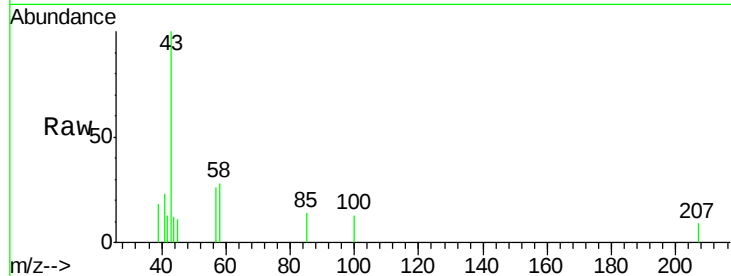




#51
 4-Methyl-2-Pentanone
 Concen: 1.28 ug/l
 RT: 9.97 min Scan# 2550
 Delta R.T. 0.00 min
 Lab File: VN060233.D
 Acq: 25 Feb 2020 14:50

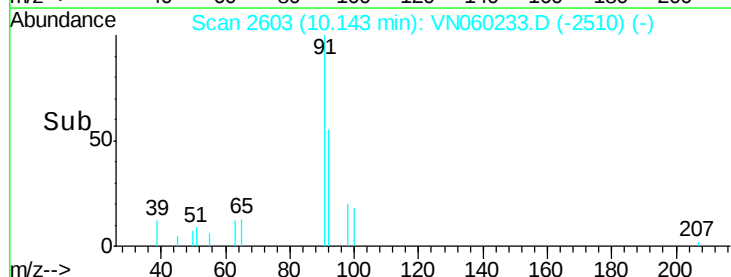
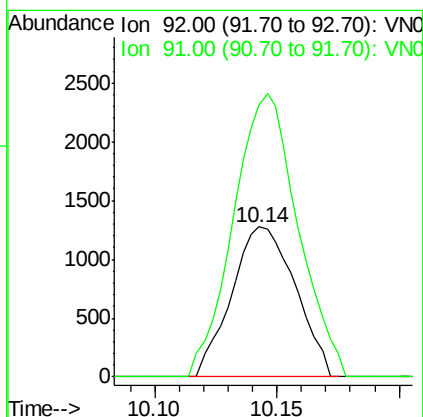
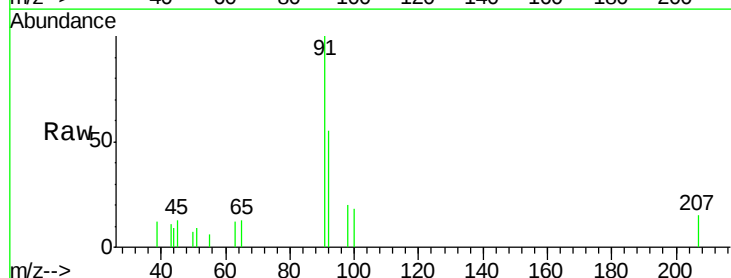
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127055ZHE#14

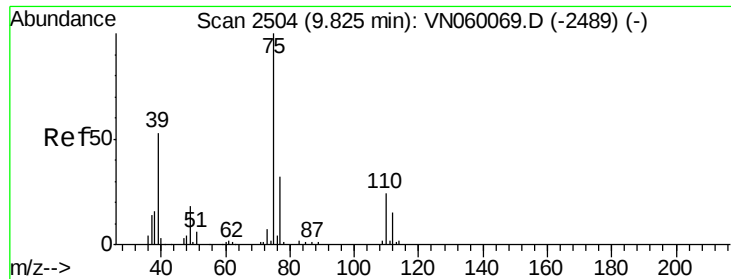
Tgt Ion: 43 Resp: 3030
 Ion Ratio Lower Upper
 43 100
 58 33.9 31.8 47.8



#52
 Toluene
 Concen: 0.46 ug/l
 RT: 10.14 min Scan# 2603
 Delta R.T. -0.00 min
 Lab File: VN060233.D
 Acq: 25 Feb 2020 14:50

Tgt Ion: 92 Resp: 2315
 Ion Ratio Lower Upper
 92 100
 91 190.3 140.9 211.3





#54

cis-1,3-Dichloropropene

Concen: 6.11 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060233.D

Acq: 25 Feb 2020 14:50

Instrument :

MSVOA_N

ClientSampleId :

PB127055ZHE#14

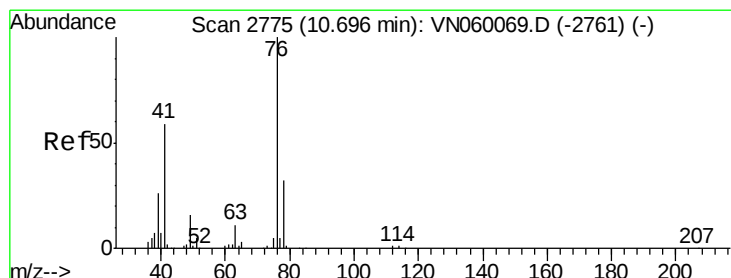
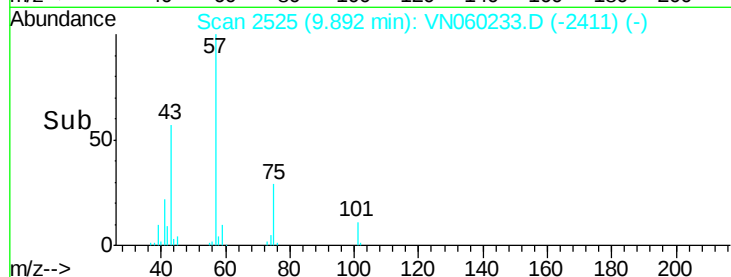
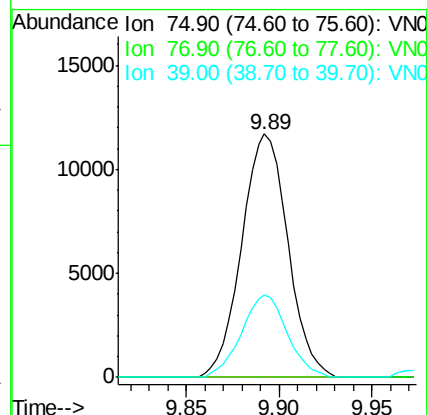
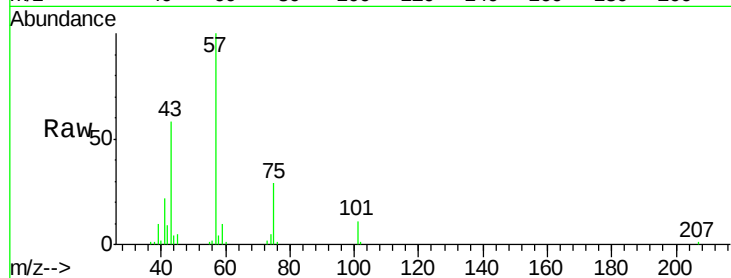
Tgt Ion: 75 Resp: 20320

Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#

39 33.9 42.2 63.4#



#57

1,3-Dichloropropane

Concen: 1.05 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060233.D

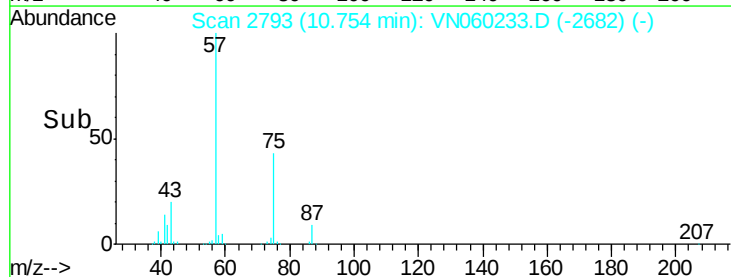
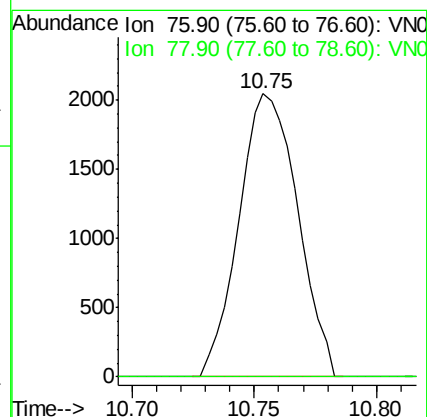
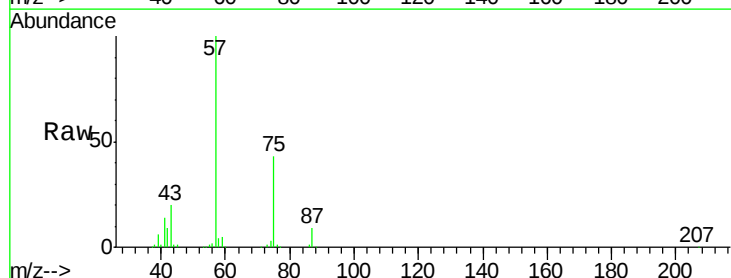
Acq: 25 Feb 2020 14:50

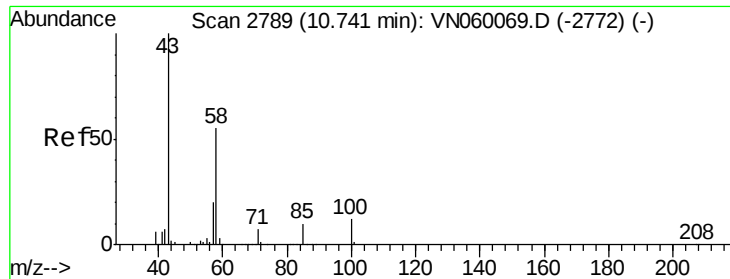
Tgt Ion: 76 Resp: 3414

Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#





#59

2-Hexanone

Concen: 26.72 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.02 min

Lab File: VN060233.D

Acq: 25 Feb 2020 14:50

Instrument :

MSVOA_N

ClientSampleId :

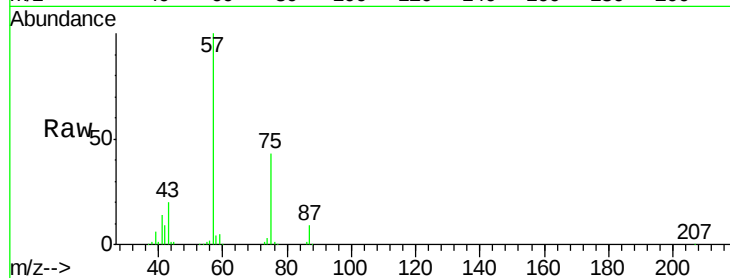
PB127055ZHE#14

Tgt Ion: 43 Resp: 48952

Ion Ratio Lower Upper

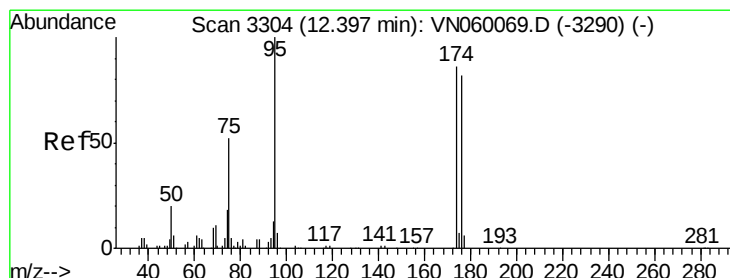
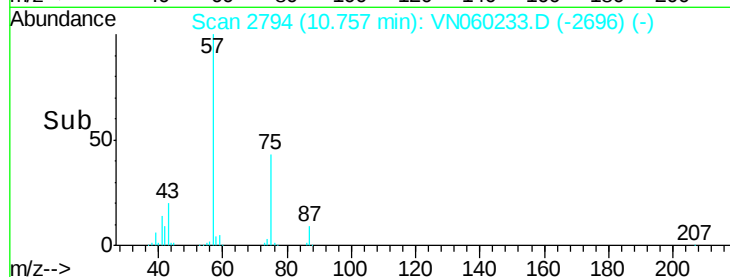
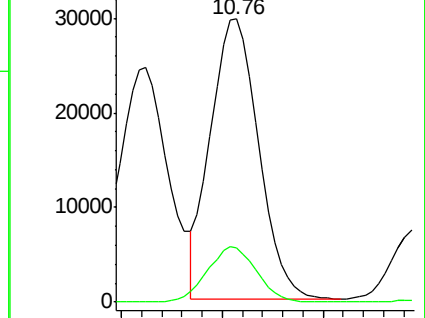
43 100

58 20.2 27.5 82.4#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#62

4-Bromofluorobenzene

Concen: 49.78 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060233.D

Acq: 25 Feb 2020 14:50

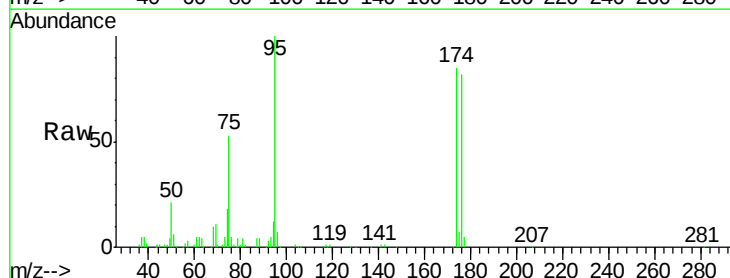
Tgt Ion: 95 Resp: 126779

Ion Ratio Lower Upper

95 100

174 84.8 0.0 169.8

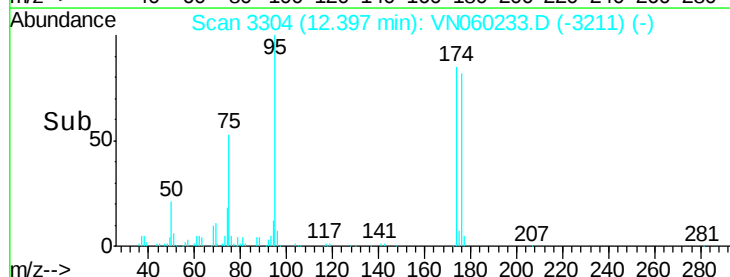
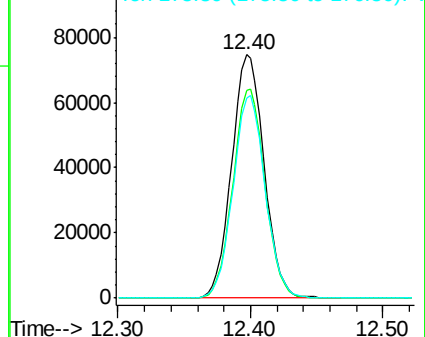
176 82.3 0.0 164.8

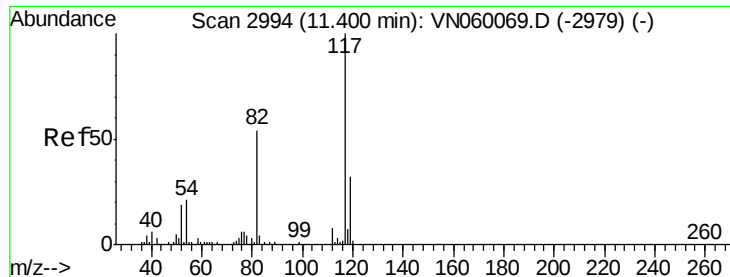


Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

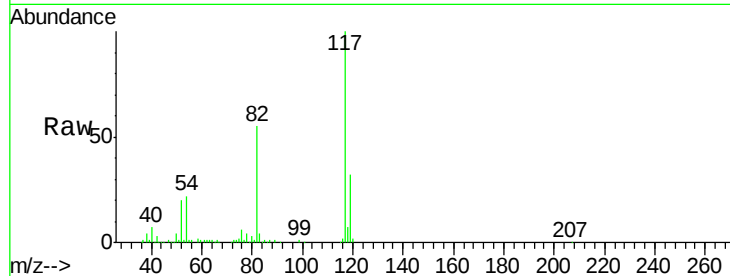




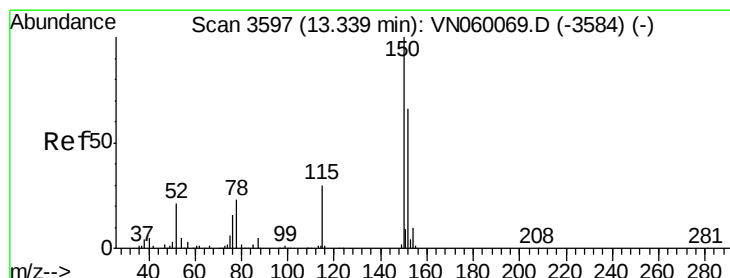
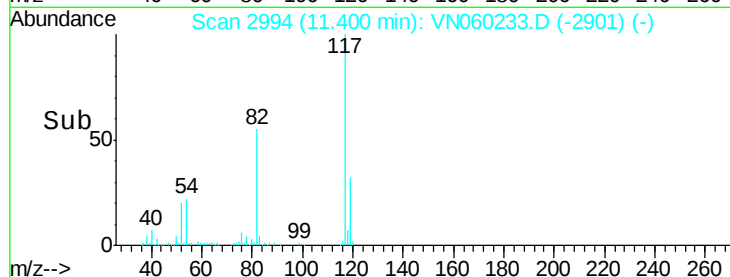
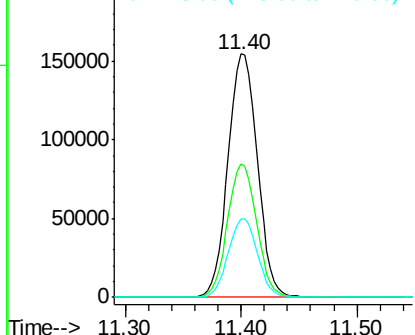
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060233.D
Acq: 25 Feb 2020 14:50

Instrument :
MSVOA_N
ClientSampleId :
PB127055ZHE#14

Tgt Ion:117 Resp: 271418
Ion Ratio Lower Upper
117 100
82 54.6 43.4 65.0
119 32.0 25.8 38.6

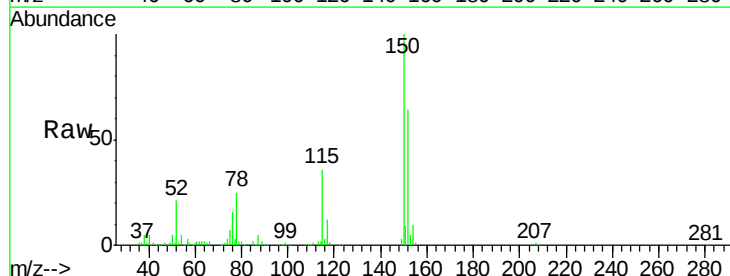


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

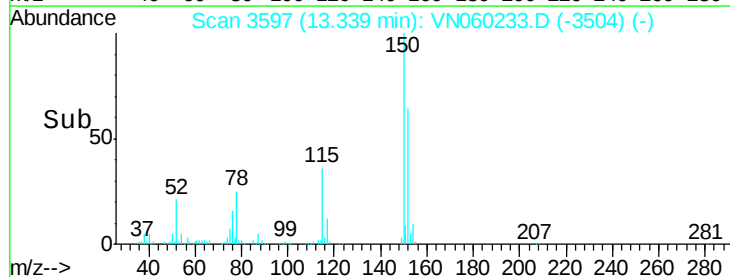
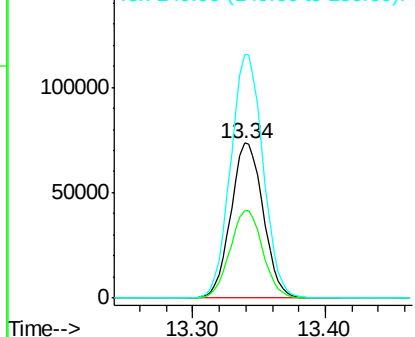


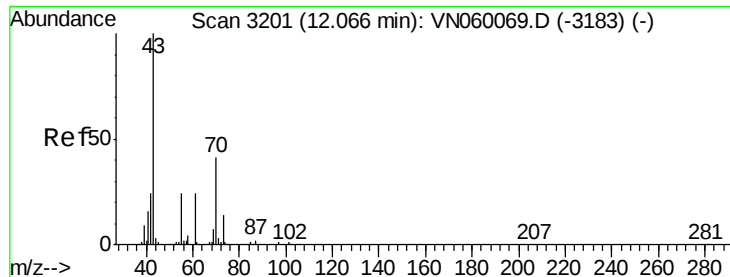
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.34 min Scan# 3597
Delta R.T. -0.00 min
Lab File: VN060233.D
Acq: 25 Feb 2020 14:50

Tgt Ion:152 Resp: 124745
Ion Ratio Lower Upper
152 100
115 57.1 28.9 86.8
150 157.2 0.0 342.4



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: 0.72 ug/l

RT: 12.03 min Scan# 3189

Delta R.T. -0.04 min

Lab File: VN060233.D

Acq: 25 Feb 2020 14:50

Instrument :

MSVOA_N

ClientSampleId :

PB127055ZHE#14

Tgt Ion: 43 Resp: 2408

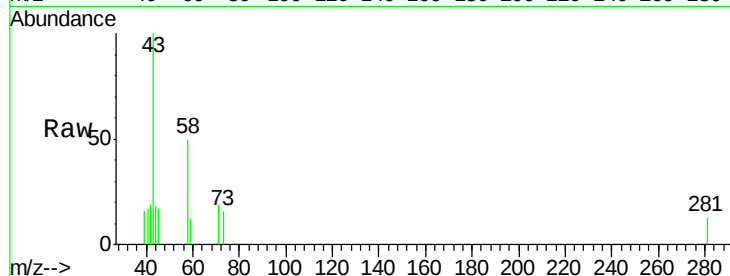
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 0.0 18.8 28.2#

61 0.0 19.2 28.8#

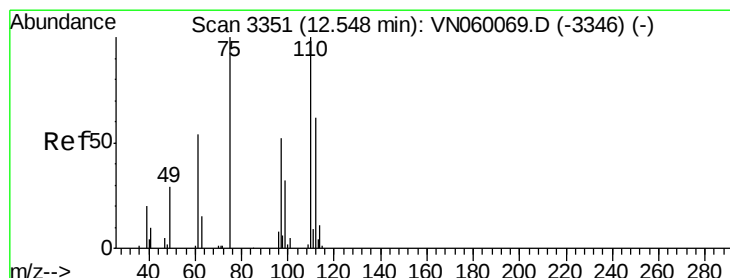
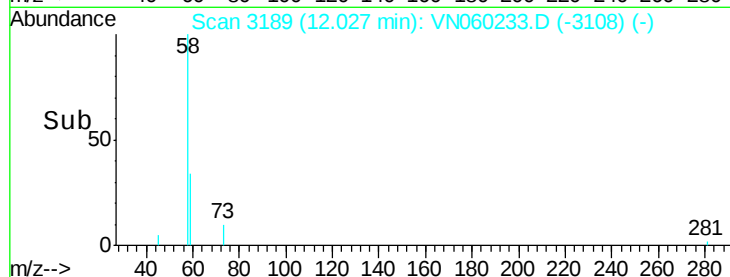
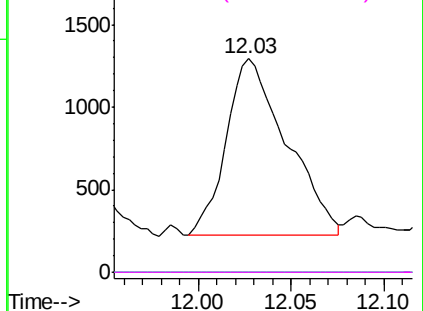


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.41 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060233.D

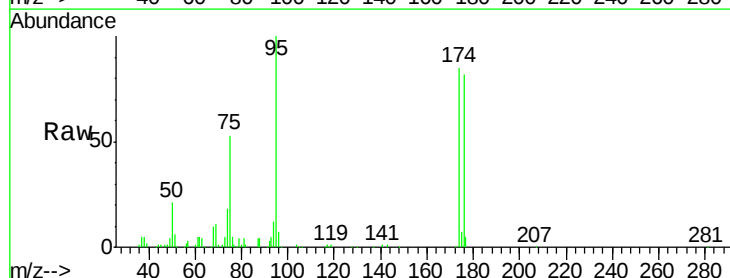
Acq: 25 Feb 2020 14:50

Tgt Ion: 75 Resp: 65406

Ion Ratio Lower Upper

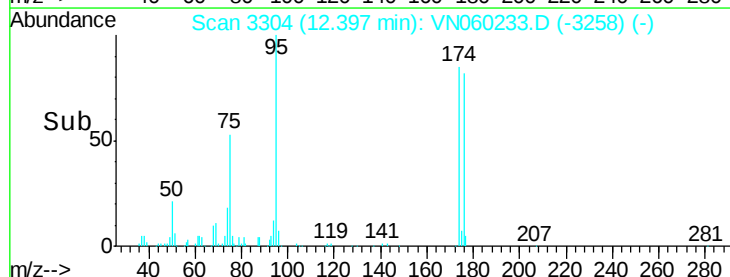
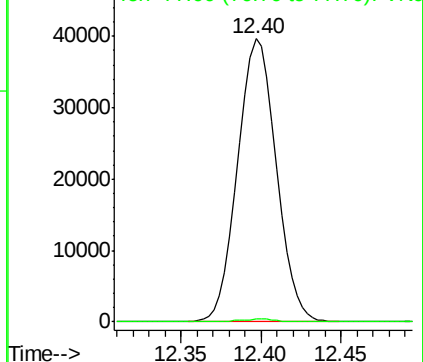
75 100

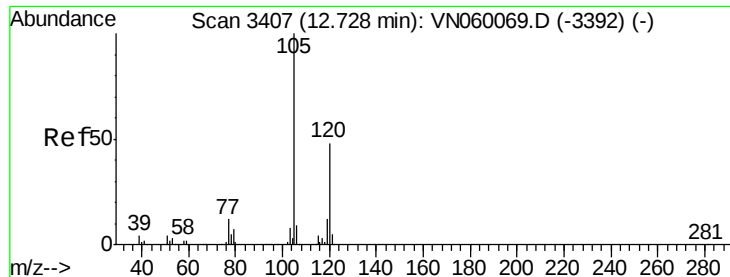
77 0.9 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#80

1,3,5-Trimethylbenzene

Concen: 0.33 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060233.D

Acq: 25 Feb 2020 14:50

Instrument :

MSVOA_N

ClientSampleId :

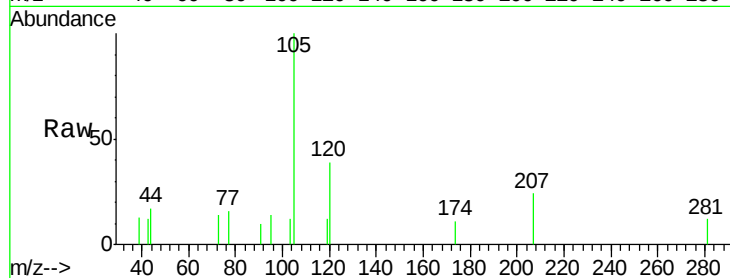
PB127055ZHE#14

Tgt Ion: 105 Resp: 2570

Ion Ratio Lower Upper

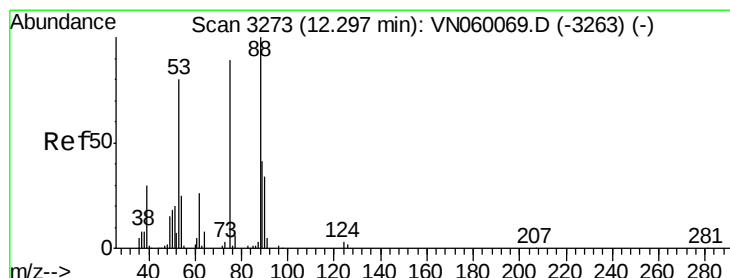
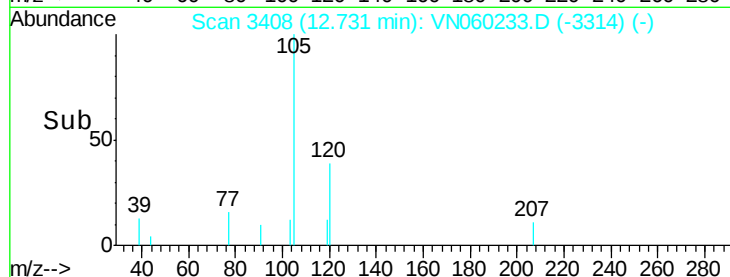
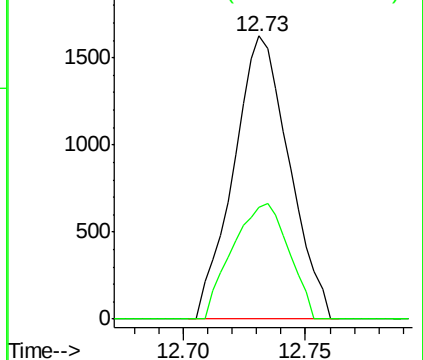
105 100

120 41.4 24.3 72.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 67.10 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060233.D

Acq: 25 Feb 2020 14:50

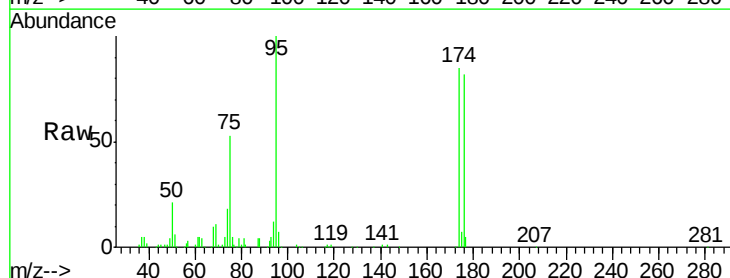
Tgt Ion: 75 Resp: 65406

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

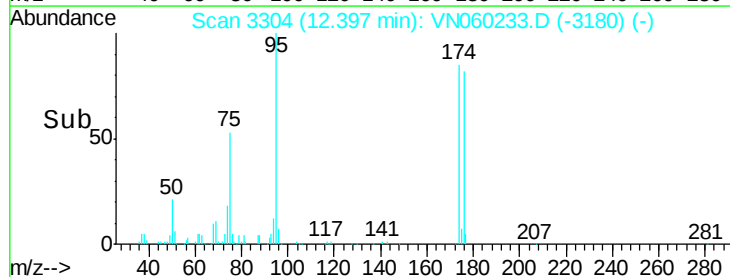
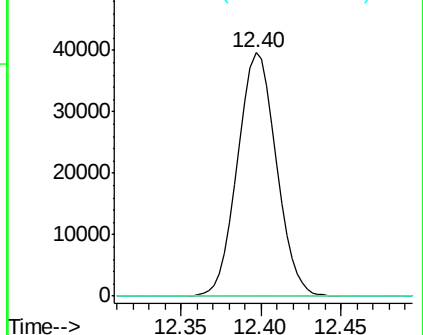
89 0.0 37.0 55.4#

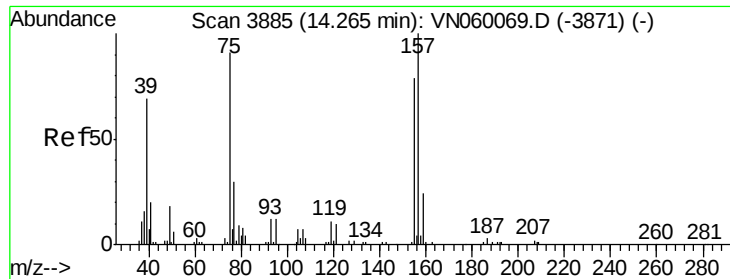


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.26 min Scan# 3882

Delta R.T. -0.01 min

Lab File: VN060233.D

Acq: 25 Feb 2020 14:50

Instrument :

MSVOA_N

ClientSampleId :

PB127055ZHE#14

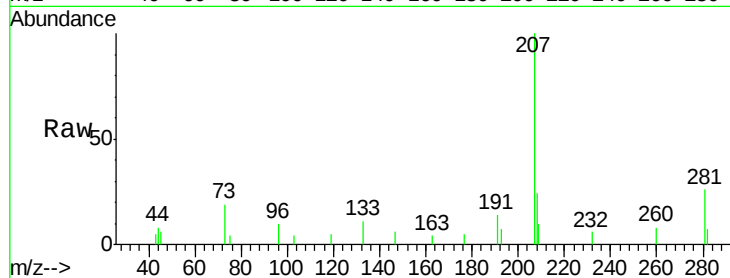
Tgt Ion: 75 Resp: 31

Ion Ratio Lower Upper

75 100

155 0.0 43.0 129.0#

157 0.0 54.9 164.5#



Abundance Ion 74.90 (74.60 to 75.60): VN060233.D (-3791) (-)

Ion 154.80 (154.50 to 155.50): VN060233.D (-3791) (-)

Ion 156.80 (156.50 to 157.50): VN060233.D (-3791) (-)

