

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN022520\
 Data File : VN060231.D
 Acq On : 25 Feb 2020 14:05
 Operator : JC/MD
 Sample : PB127055ZHE#12
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127055ZHE#12

Quant Time: Feb 25 15:47:40 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	7.64	168	181230	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	283359	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	266010	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	122087	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.01	65	106517	48.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.60%	
35) Dibromofluoromethane	7.57	113	85756	49.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.46%	
50) Toluene-d8	10.08	98	343098	50.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.04%	
62) 4-Bromofluorobenzene	12.40	95	124781	49.51	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.02%	

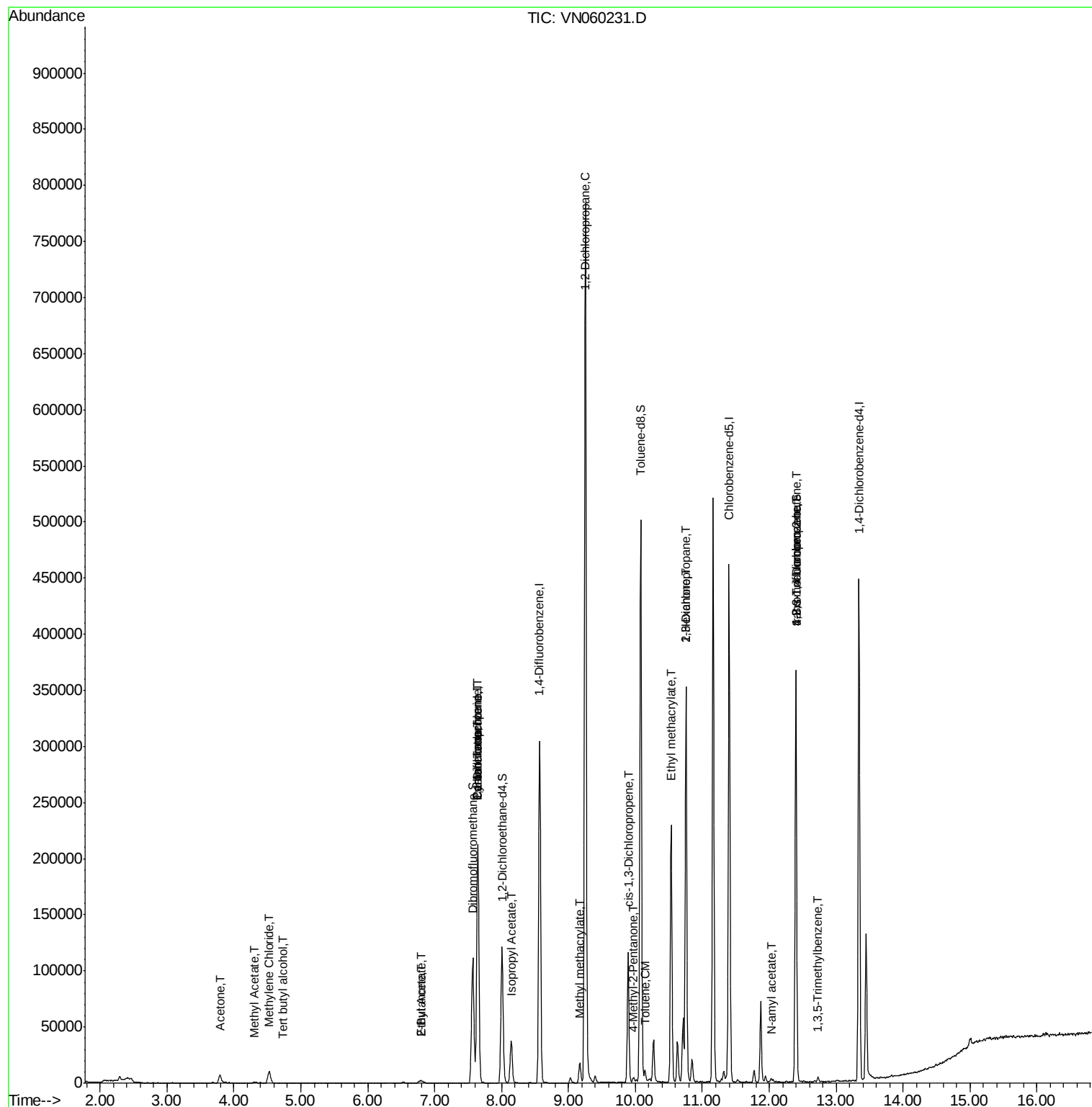
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.73	59	199	0.60	ug/l #	72
16) Acetone	3.79	43	13503	14.04	ug/l	97
18) Methyl Acetate	4.30	43	1577	0.87	ug/l #	61
20) Methylene Chloride	4.53	84	8404	4.38	ug/l	99
25) 2-Butanone	6.81	43	2601	2.15	ug/l #	85
31) Cyclohexane	7.64	56	3598	1.15	ug/l #	12
36) 1,1-Dichloropropene	7.64	75	12966	4.94	ug/l #	49
37) Ethyl Acetate	6.81	43	2601	1.10	ug/l #	68
38) Carbon Tetrachloride	7.64	117	16907	5.93	ug/l #	15
43) Isopropyl Acetate	8.14	43	45325	11.18	ug/l #	90
45) 1,2-Dichloropropane	9.26	63	1020	0.53	ug/l #	43
48) Methyl methacrylate	9.17	41	2833	1.56	ug/l #	9
51) 4-Methyl-2-Pentanone	9.97	43	3053	1.30	ug/l	98
52) Toluene	10.14	92	4607	0.92	ug/l	99
54) cis-1,3-Dichloropropene	9.89	75	21320	6.48	ug/l #	61
56) Ethyl methacrylate	10.54	69	556	0.20	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	3681	1.15	ug/l #	43
59) 2-Hexanone	10.76	43	52370	28.89	ug/l #	53
74) N-amyl acetate	12.02	43	2517	0.77	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	64143	27.46	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	2607	0.34	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	64143	67.24	ug/l #	12
92) 1,2-Dibromo-3-Chloropropan	14.33	75	29	Below Cal	#	1

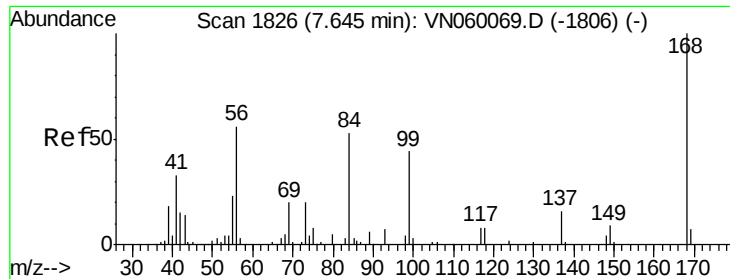
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 25 15:47:40 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N021220W.M
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: 7.64 min Scan# 1826

Delta R.T. -0.00 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

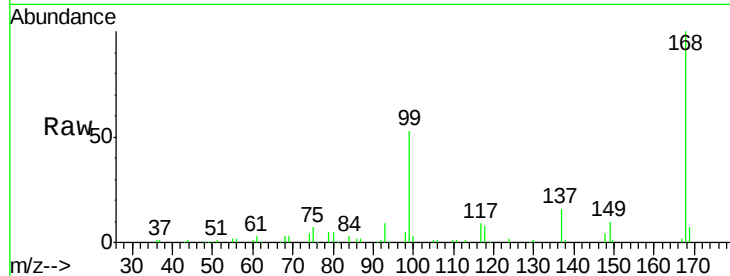
PB127055ZHE#12

Tgt Ion:168 Resp: 181230

Ion Ratio Lower Upper

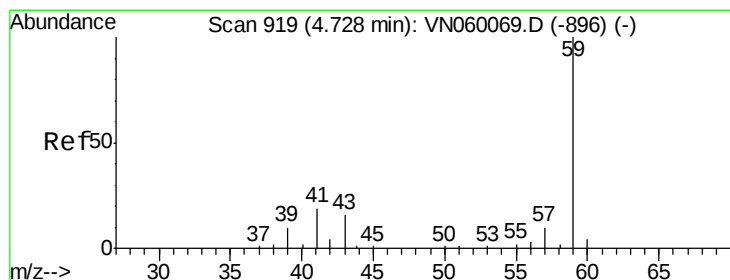
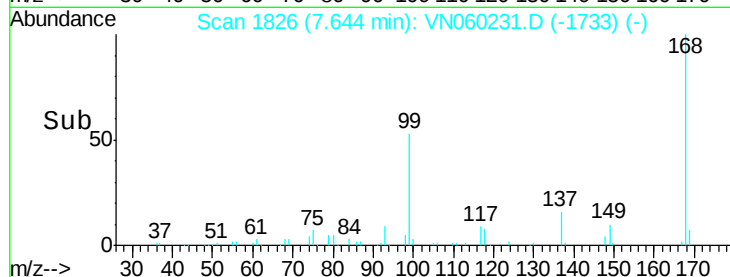
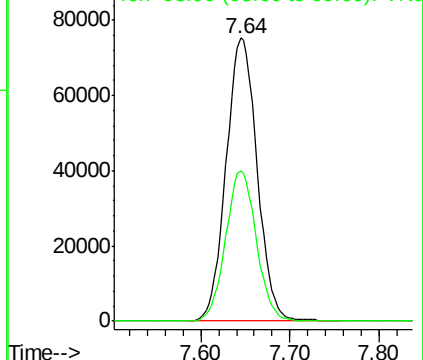
168 100

99 53.1 42.7 64.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 0.60 ug/l

RT: 4.73 min Scan# 921

Delta R.T. 0.01 min

Lab File: VN060231.D

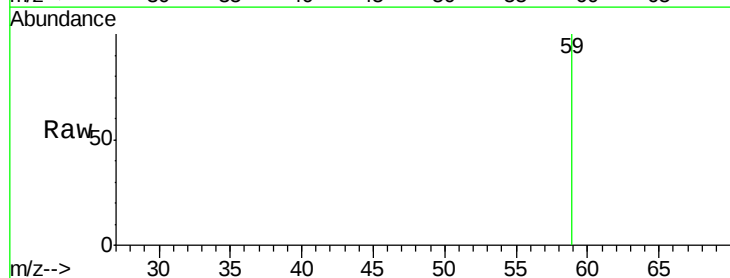
Acq: 25 Feb 2020 14:05

Tgt Ion: 59 Resp: 199

Ion Ratio Lower Upper

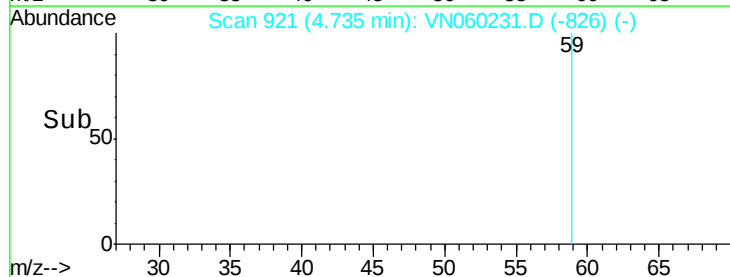
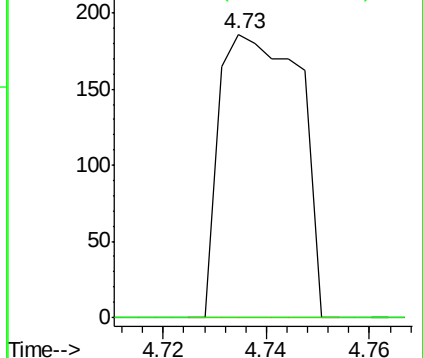
59 100

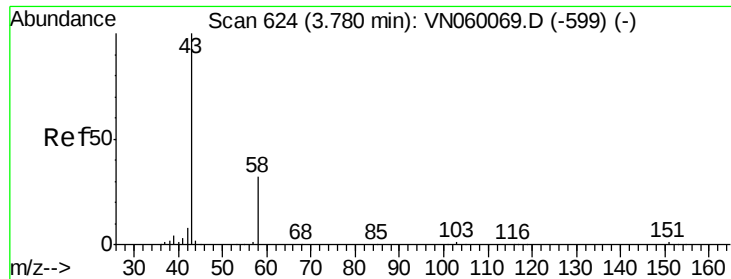
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO





#16

Acetone

Concen: 14.04 ug/l

RT: 3.79 min Scan# 627

Delta R.T. 0.01 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

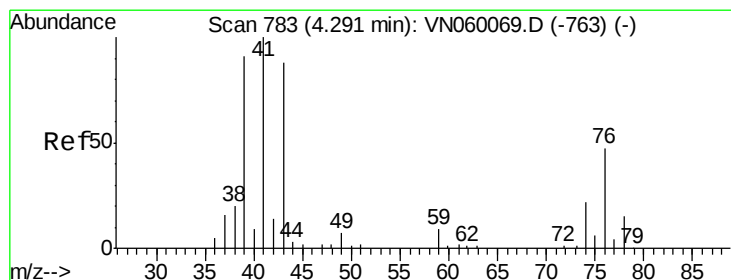
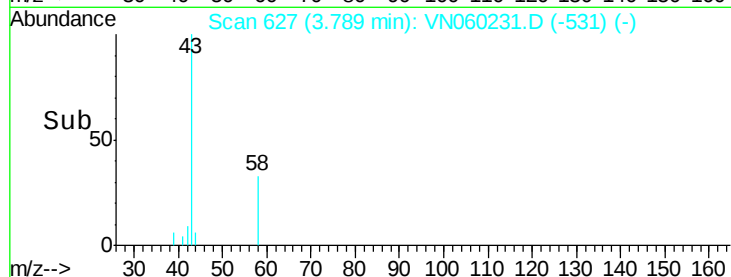
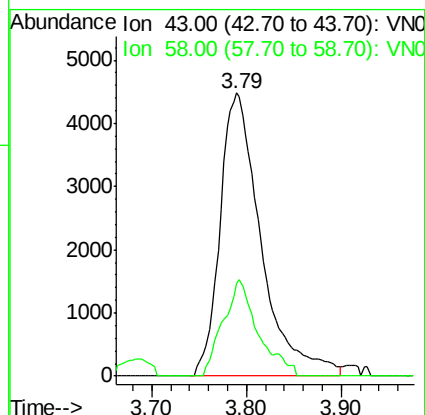
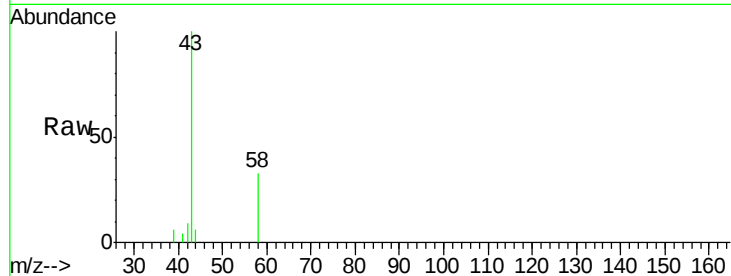
PB127055ZHE#12

Tgt Ion: 43 Resp: 13503

Ion Ratio Lower Upper

43 100

58 32.9 25.2 37.8



#18

Methyl Acetate

Concen: 0.87 ug/l

RT: 4.30 min Scan# 787

Delta R.T. 0.01 min

Lab File: VN060231.D

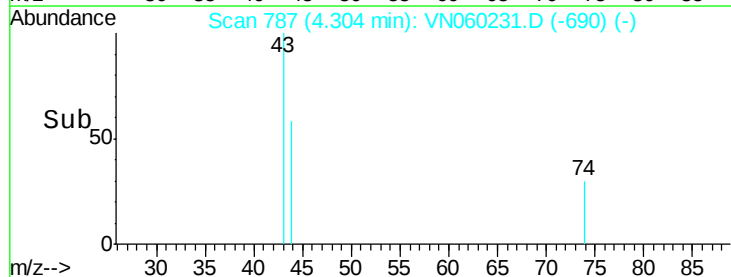
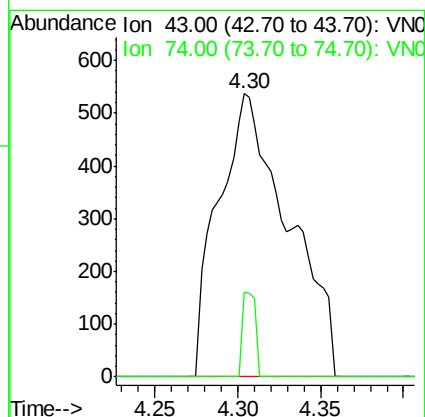
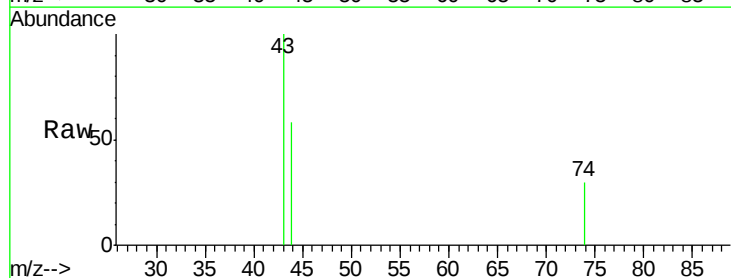
Acq: 25 Feb 2020 14:05

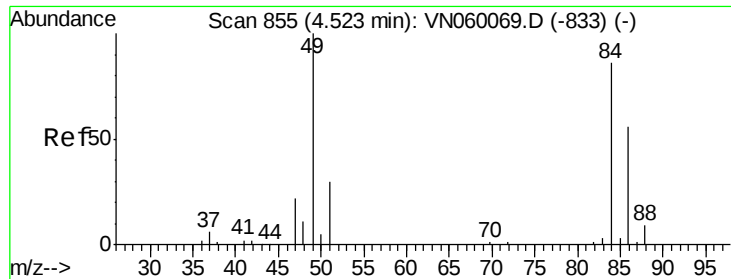
Tgt Ion: 43 Resp: 1577

Ion Ratio Lower Upper

43 100

74 5.8 20.3 30.5#

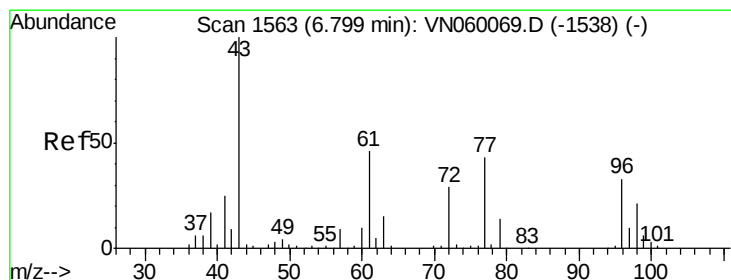
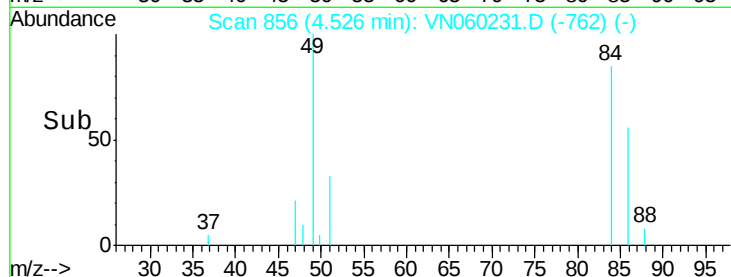
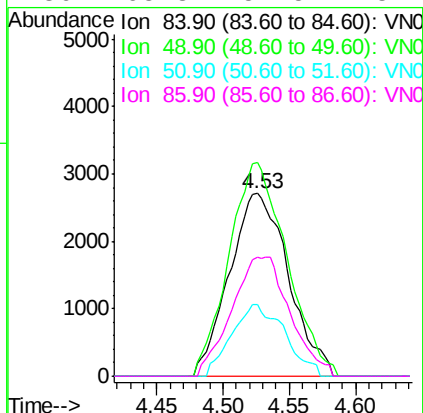
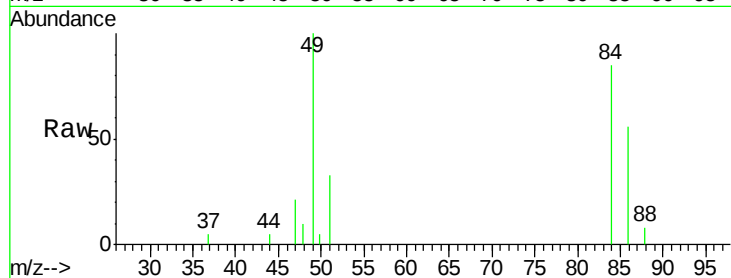




#20
Methylene Chloride
Concen: 4.38 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060231.D
Acq: 25 Feb 2020 14:05

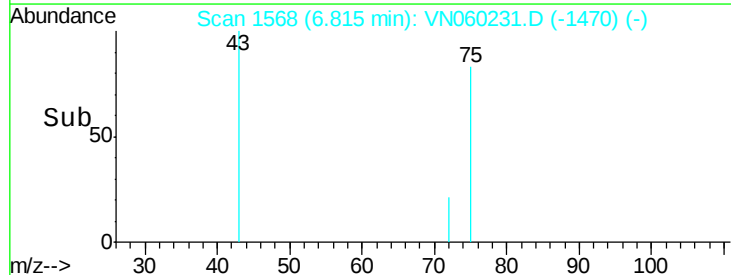
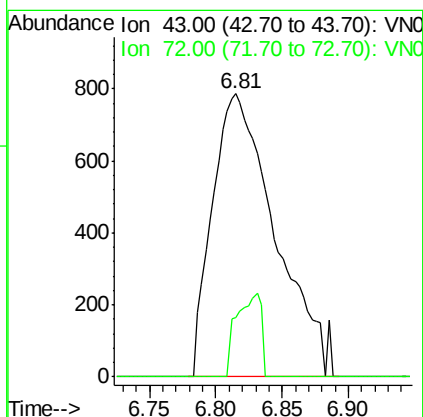
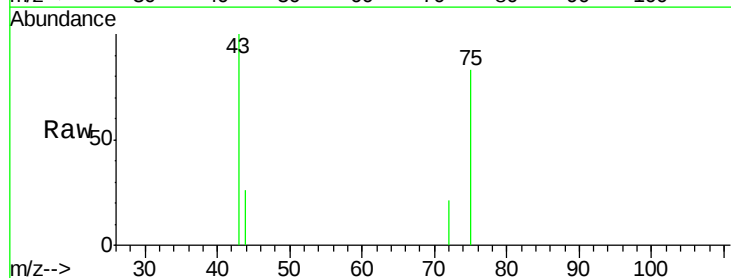
Instrument :
MSVOA_N
ClientSampleId :
PB127055ZHE#12

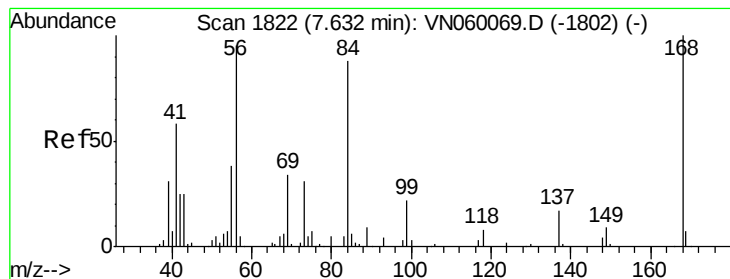
Tgt Ion:	84	Resp:	8404
Ion	Ratio	Lower	Upper
84	100		
49	117.1	93.4	140.0
51	39.1	28.4	42.6
86	65.3	52.5	78.7



#25
2-Butanone
Concen: 2.15 ug/l
RT: 6.81 min Scan# 1568
Delta R.T. 0.02 min
Lab File: VN060231.D
Acq: 25 Feb 2020 14:05

Tgt Ion:	43	Resp:	2601
Ion	Ratio	Lower	Upper
43	100		
72	21.0	23.3	34.9#





#31

Cyclohexane

Concen: 1.15 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

PB127055ZHE#12

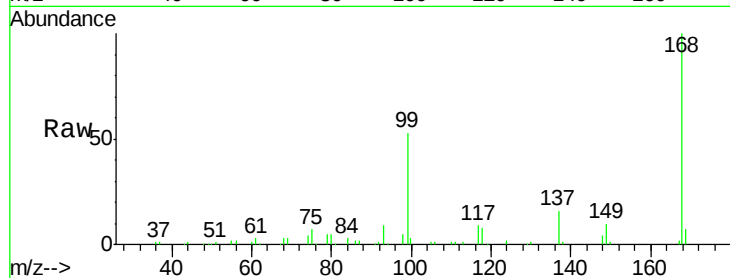
Tgt Ion: 56 Resp: 3598

Ion Ratio Lower Upper

56 100

69 153.7 28.3 42.5#

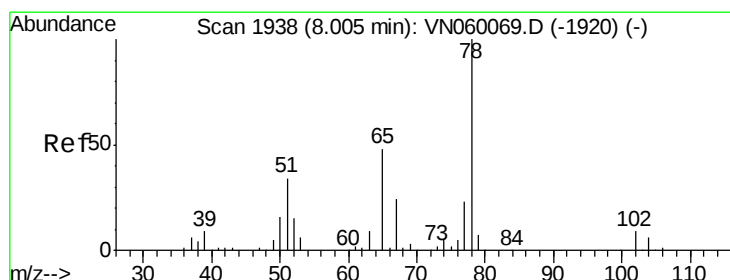
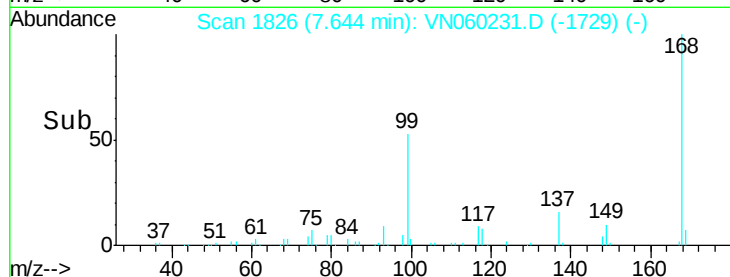
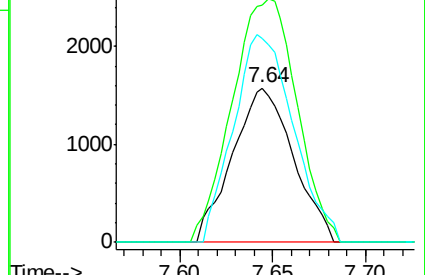
84 131.8 72.6 108.8#



Abundance Ion 56.00 (55.70 to 56.70): VN060069.D (-1802) (-)

Ion 69.00 (68.70 to 69.70): VN060069.D (-1802) (-)

Ion 84.00 (83.70 to 84.70): VN060069.D (-1802) (-)



#33

1,2-Dichloroethane-d4

Concen: 48.30 ug/l

RT: 8.01 min Scan# 1939

Delta R.T. 0.00 min

Lab File: VN060231.D

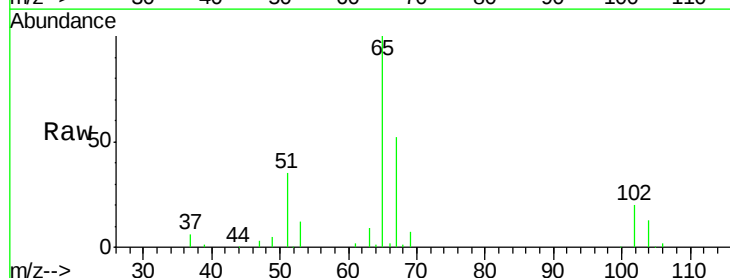
Acq: 25 Feb 2020 14:05

Tgt Ion: 65 Resp: 106517

Ion Ratio Lower Upper

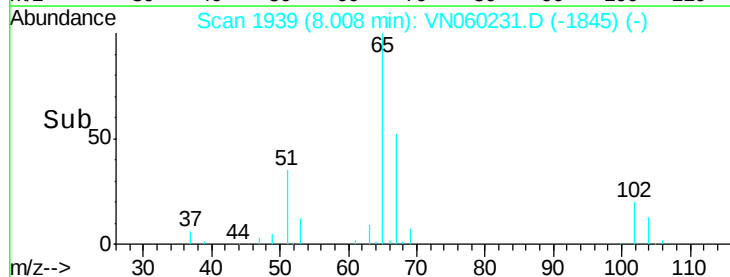
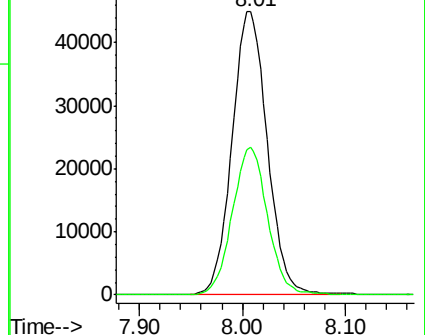
65 100

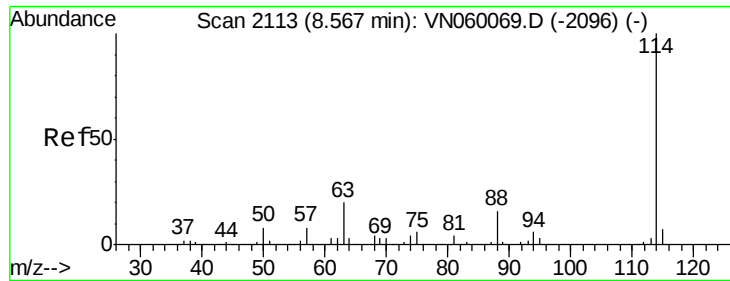
67 52.4 0.0 104.0



Abundance Ion 64.90 (64.60 to 65.60): VN060069.D (-1920) (-)

Ion 66.90 (66.60 to 67.60): VN060069.D (-1920) (-)

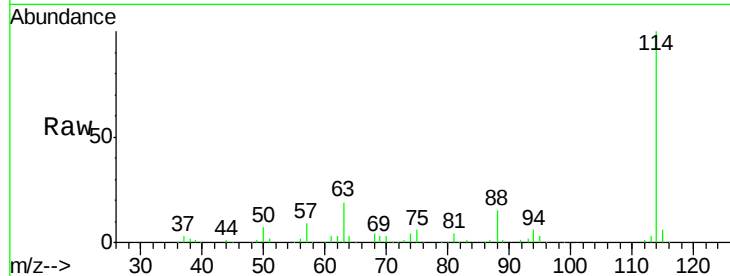




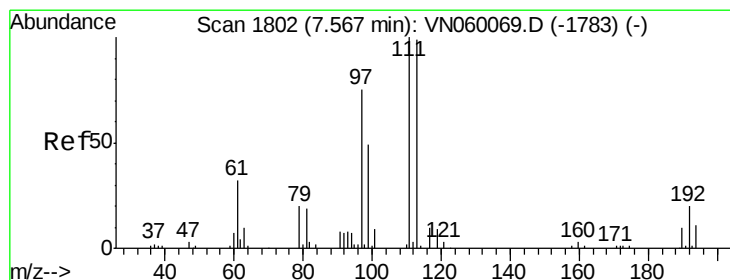
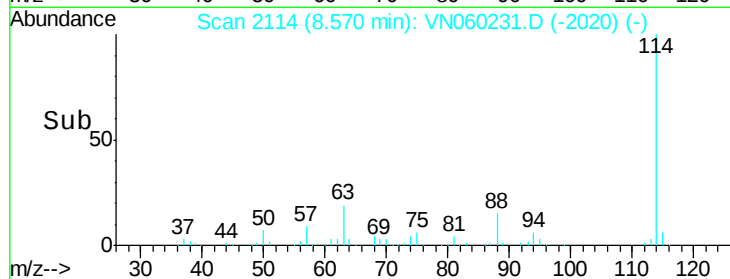
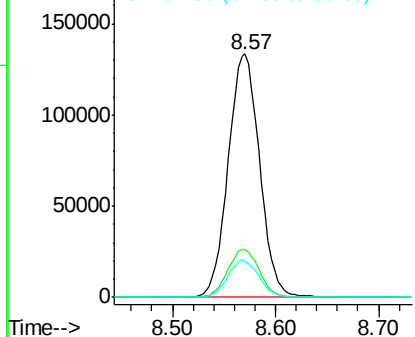
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.57 min Scan# 2114
 Delta R.T. 0.00 min
 Lab File: VN060231.D
 Acq: 25 Feb 2020 14:05

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 PB127055ZHE#12

Tgt Ion:114 Resp: 283359
 Ion Ratio Lower Upper
 114 100
 63 19.5 0.0 40.0
 88 14.9 0.0 31.6

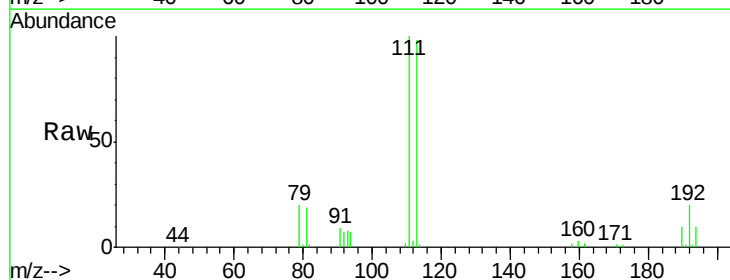


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

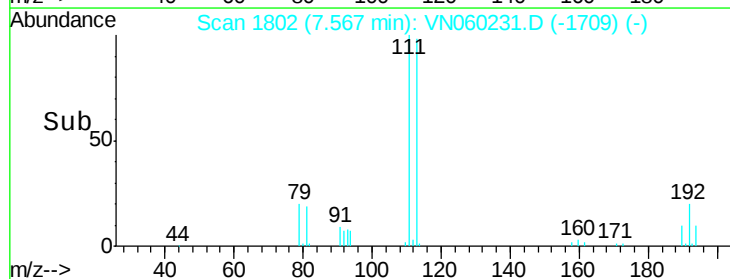
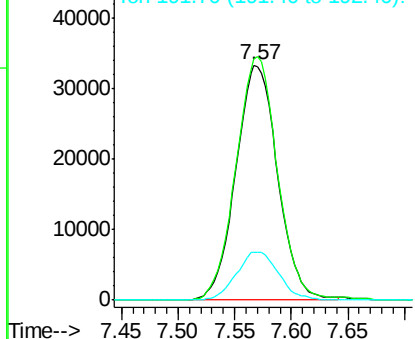


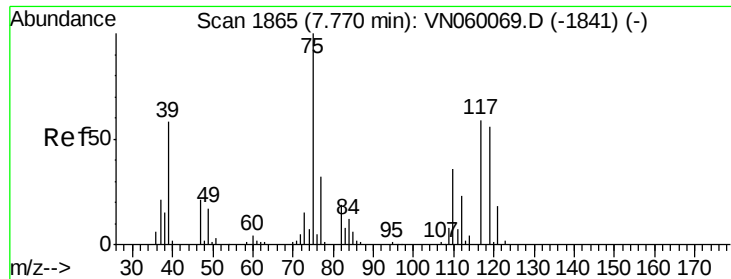
#35
 Dibromofluoromethane
 Concen: 49.23 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. -0.00 min
 Lab File: VN060231.D
 Acq: 25 Feb 2020 14:05

Tgt Ion:113 Resp: 85756
 Ion Ratio Lower Upper
 113 100
 111 103.2 81.4 122.2
 192 20.6 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

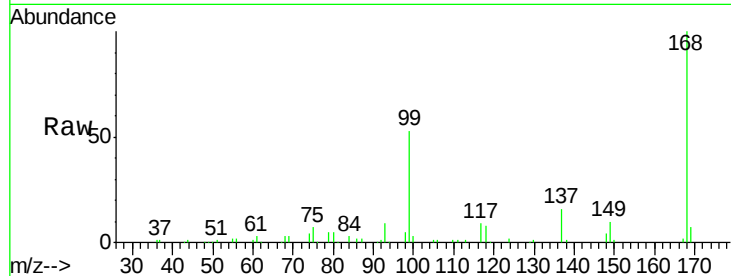




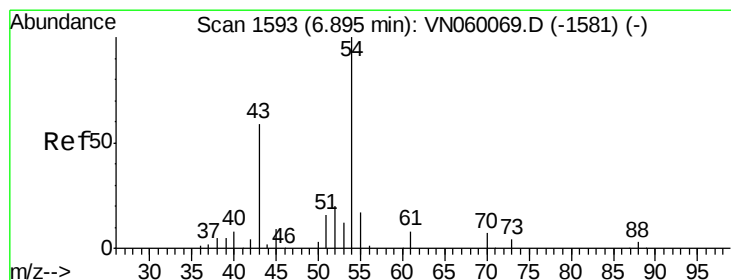
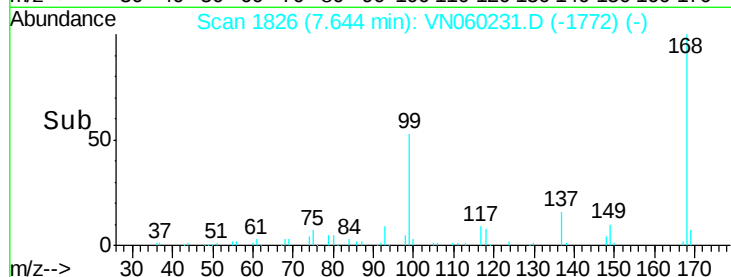
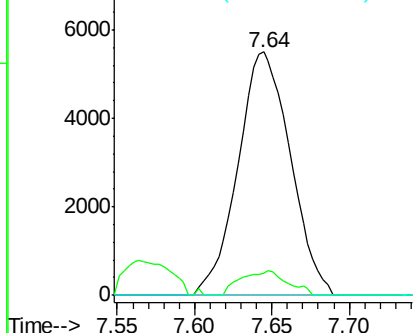
#36
 1,1-Dichloropropene
 Concen: 4.94 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.13 min
 Lab File: VN060231.D
 Acq: 25 Feb 2020 14:05

Instrument :
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 PB127055ZHE#12

Tgt Ion: 75 Resp: 12966
 Ion Ratio Lower Upper
 75 100
 110 9.0 18.1 54.3#
 77 0.0 25.1 37.7#

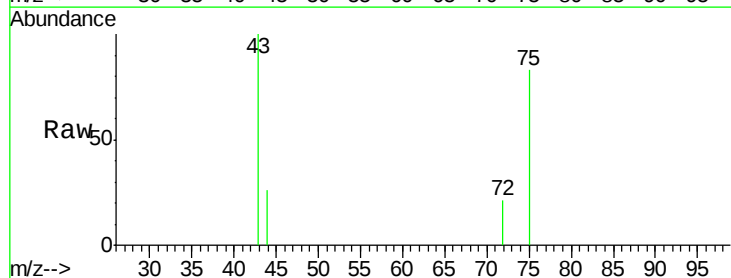


Abundance Ion 74.90 (74.60 to 75.60): VN0
 Ion 109.90 (109.60 to 110.60): VN0
 Ion 76.90 (76.60 to 77.60): VN0

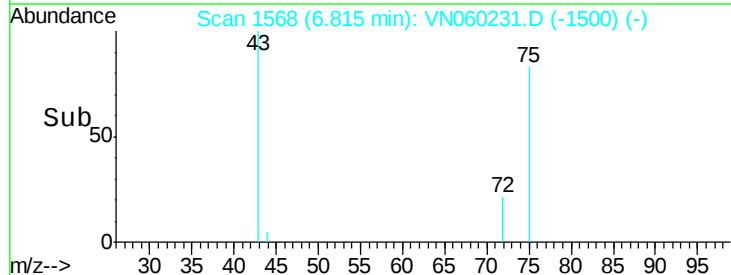
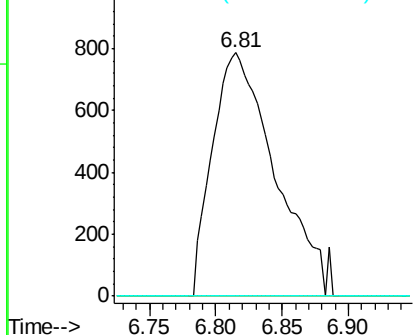


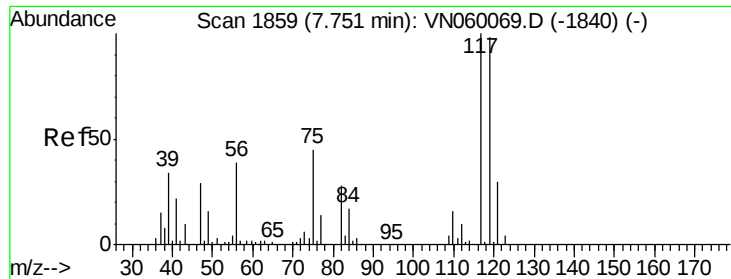
#37
 Ethyl Acetate
 Concen: 1.10 ug/l
 RT: 6.81 min Scan# 1568
 Delta R.T. -0.08 min
 Lab File: VN060231.D
 Acq: 25 Feb 2020 14:05

Tgt Ion: 43 Resp: 2601
 Ion Ratio Lower Upper
 43 100
 61 0.0 11.4 17.2#
 70 0.0 8.7 13.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 70.00 (69.70 to 70.70): VN0

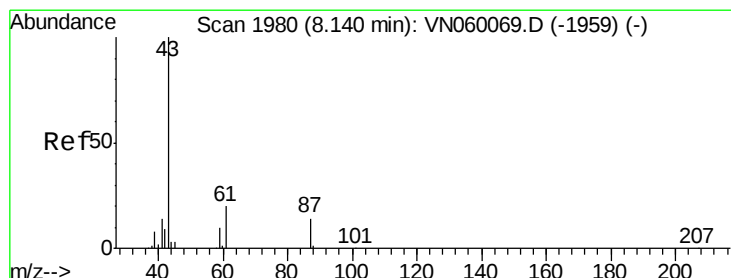
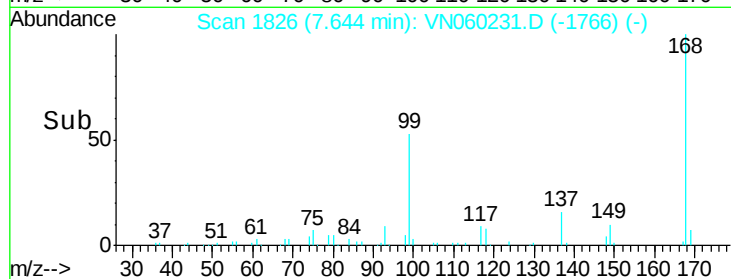
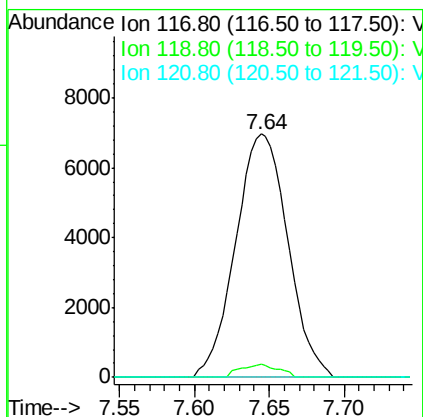
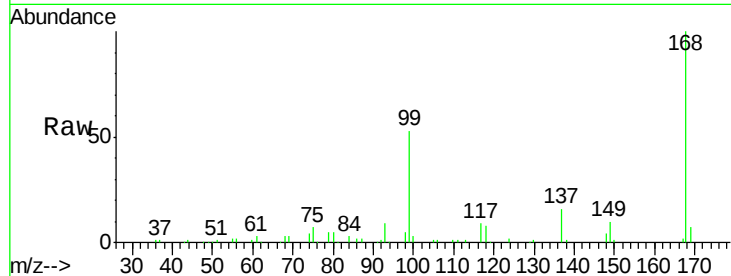




#38
Carbon Tetrachloride
Concen: 5.93 ug/l
RT: 7.64 min Scan# 1826
Delta R.T. -0.11 min
Lab File: VN060231.D
Acq: 25 Feb 2020 14:05

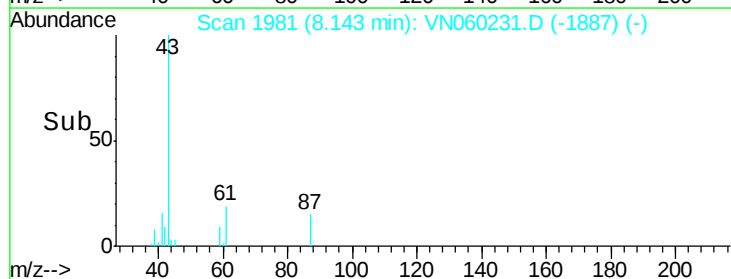
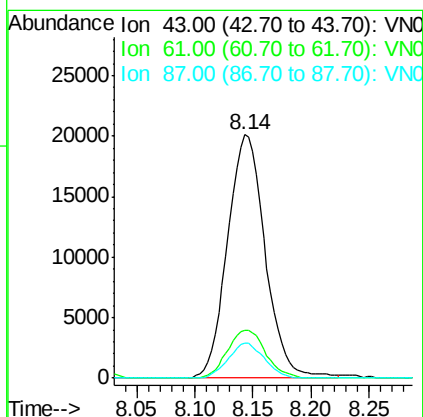
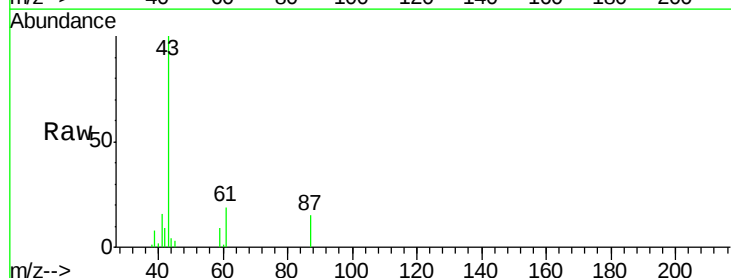
Instrument :
MSVOA_N
ClientSampleId :
PB127055ZHE#12

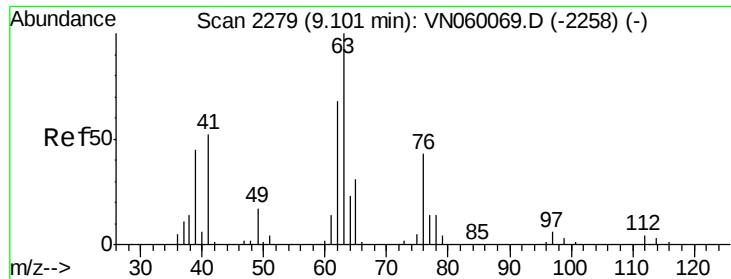
Tgt Ion: 117 Resp: 16907
Ion Ratio Lower Upper
117 100
119 5.2 78.2 117.4#
121 0.0 24.2 36.2#



#43
Isopropyl Acetate
Concen: 11.18 ug/l
RT: 8.14 min Scan# 1981
Delta R.T. 0.00 min
Lab File: VN060231.D
Acq: 25 Feb 2020 14:05

Tgt Ion: 43 Resp: 45325
Ion Ratio Lower Upper
43 100
61 19.8 21.8 32.6#
87 13.6 11.4 17.2





#45

1,2-Dichloropropane

Concen: 0.53 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.15 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

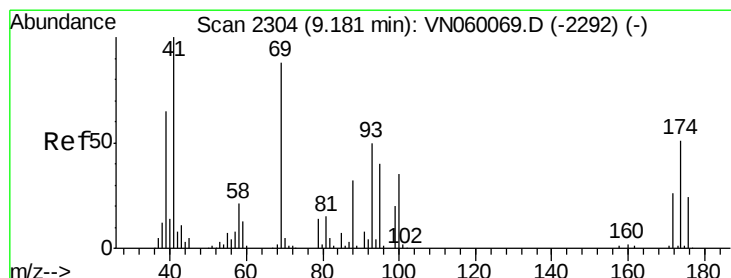
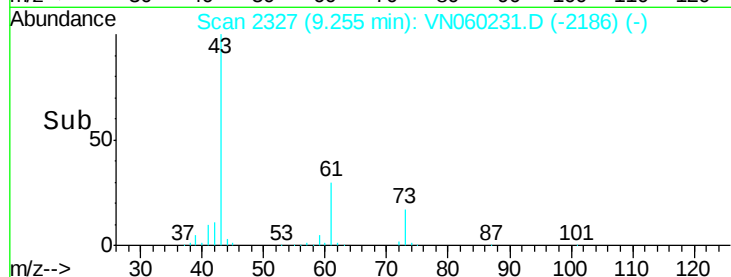
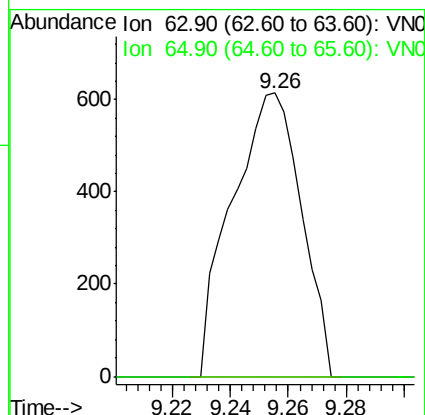
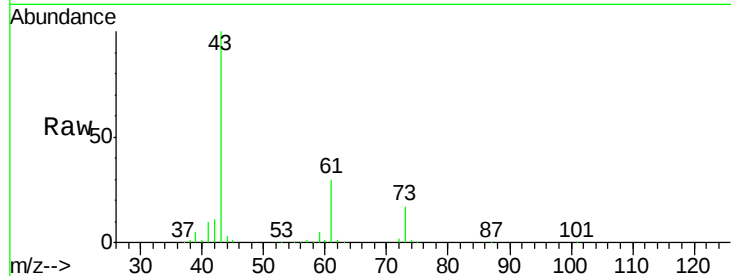
PB127055ZHE#12

Tgt Ion: 63 Resp: 1020

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.4#



#48

Methyl methacrylate

Concen: 1.56 ug/l

RT: 9.17 min Scan# 2299

Delta R.T. -0.02 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

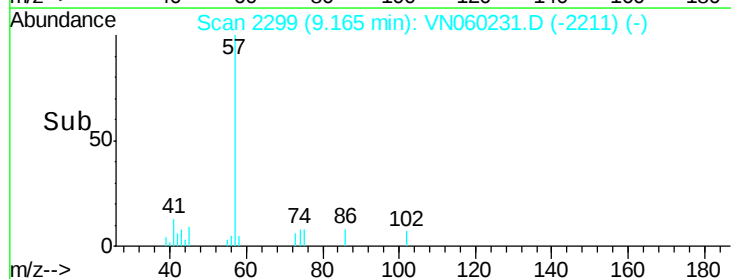
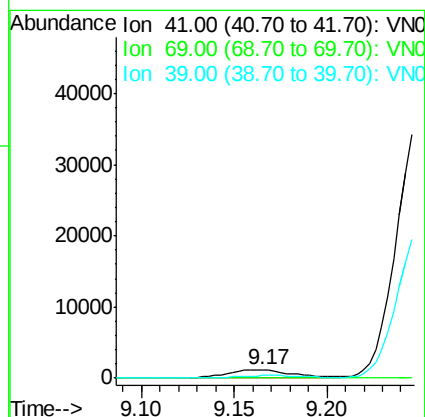
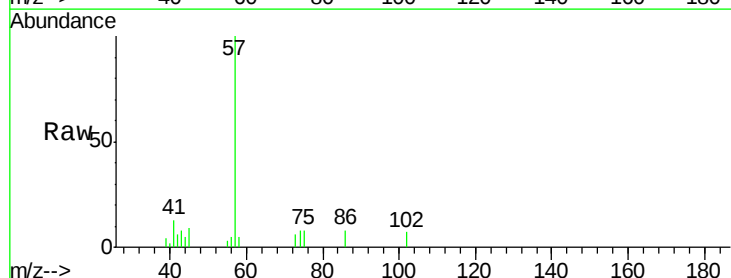
Tgt Ion: 41 Resp: 2833

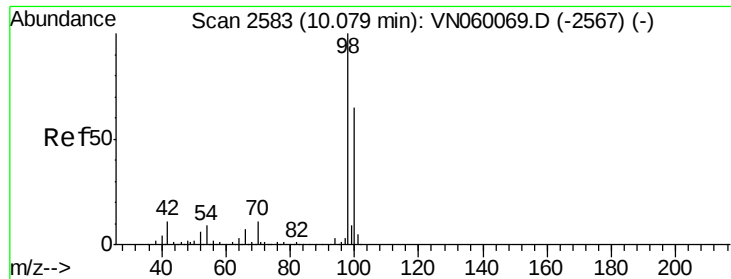
Ion Ratio Lower Upper

41 100

69 0.0 72.0 108.0#

39 0.0 54.1 81.1#





#50

Toluene-d8

Concen: 50.02 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. -0.00 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

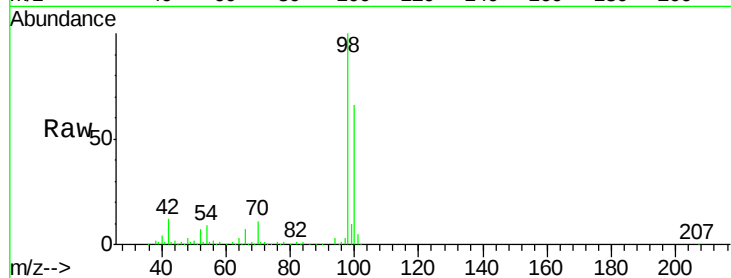
PB127055ZHE#12

Tgt Ion: 98 Resp: 343098

Ion Ratio Lower Upper

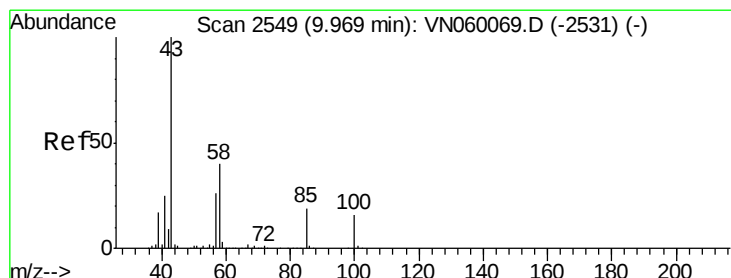
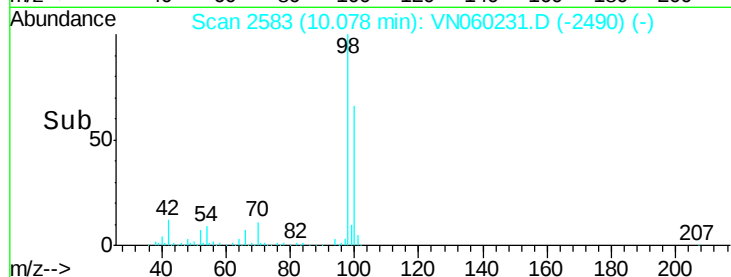
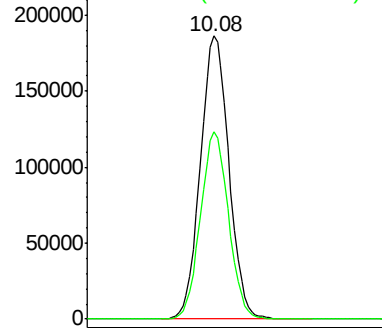
98 100

100 65.2 51.7 77.5



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: 1.30 ug/l

RT: 9.97 min Scan# 2549

Delta R.T. -0.00 min

Lab File: VN060231.D

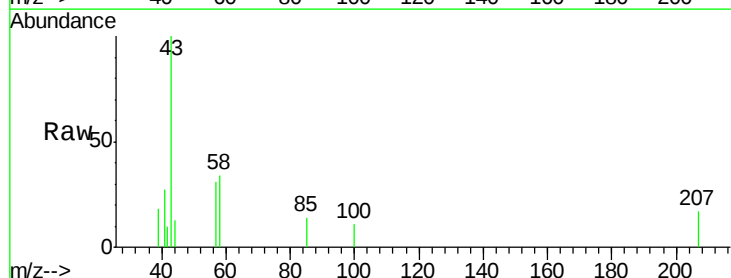
Acq: 25 Feb 2020 14:05

Tgt Ion: 43 Resp: 3053

Ion Ratio Lower Upper

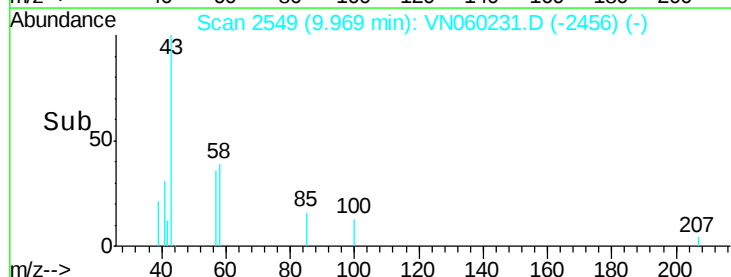
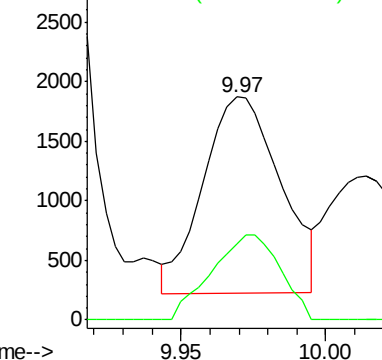
43 100

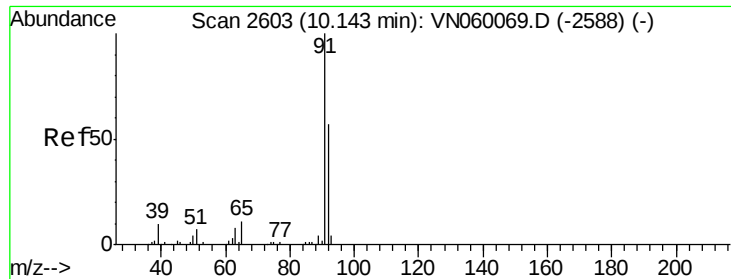
58 38.6 31.8 47.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#52

Toluene

Concen: 0.92 ug/l

RT: 10.14 min Scan# 2603

Delta R.T. -0.00 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

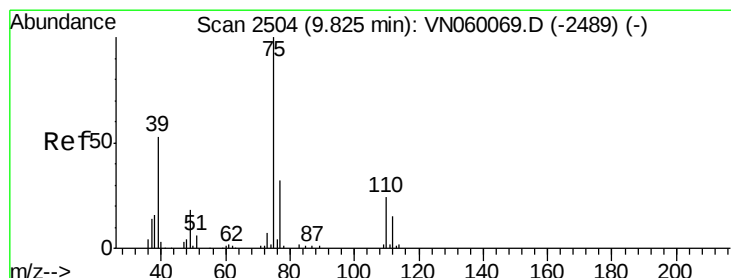
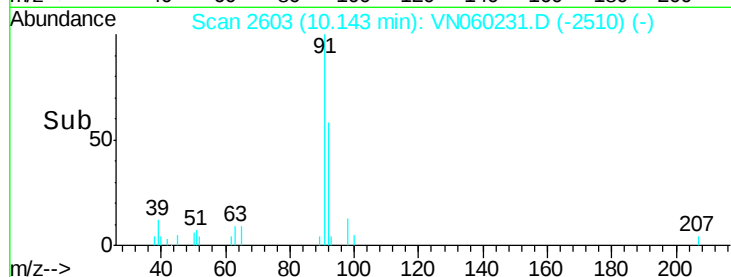
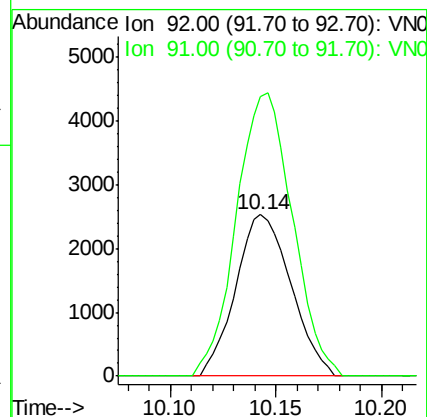
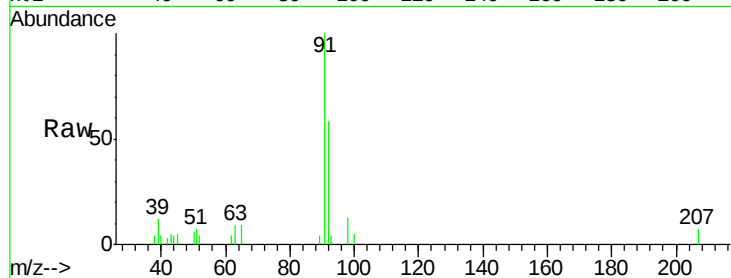
PB127055ZHE#12

Tgt Ion: 92 Resp: 4607

Ion Ratio Lower Upper

92 100

91 177.8 140.9 211.3



#54

cis-1,3-Dichloropropene

Concen: 6.48 ug/l

RT: 9.89 min Scan# 2525

Delta R.T. 0.07 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

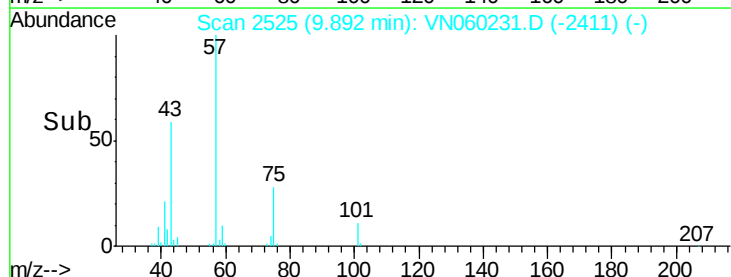
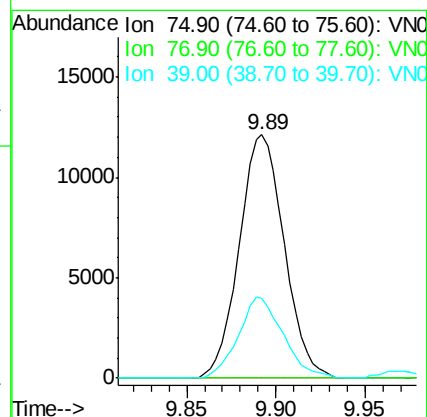
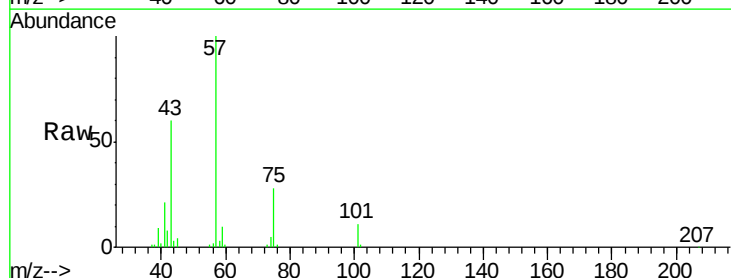
Tgt Ion: 75 Resp: 21320

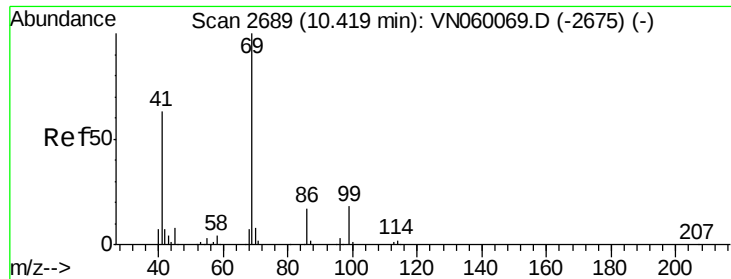
Ion Ratio Lower Upper

75 100

77 0.0 25.6 38.4#

39 32.7 42.2 63.4#





#56

Ethyl methacrylate

Concen: 0.20 ug/l

RT: 10.54 min Scan# 2725

Delta R.T. 0.12 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

PB127055ZHE#12

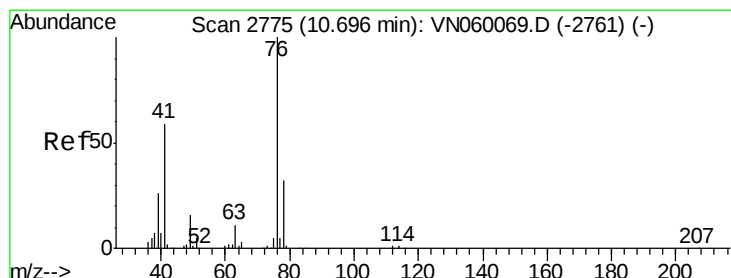
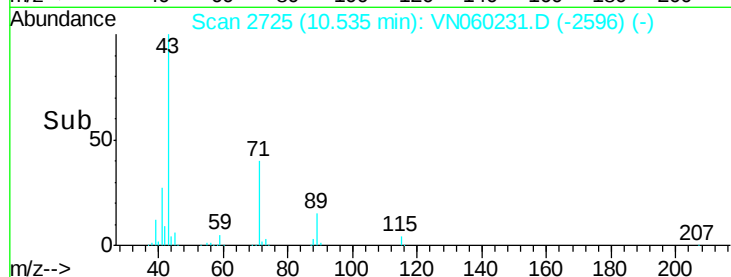
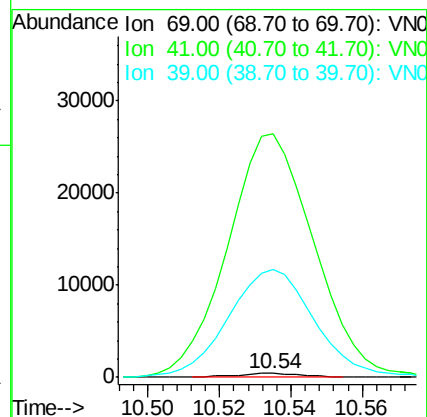
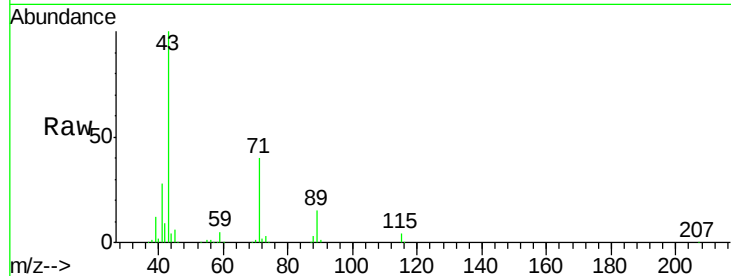
Tgt Ion: 69 Resp: 556

Ion Ratio Lower Upper

69 100

41 8017.4 51.1 76.7#

39 3566.4 33.8 50.8#



#57

1,3-Dichloropropane

Concen: 1.15 ug/l

RT: 10.76 min Scan# 2794

Delta R.T. 0.06 min

Lab File: VN060231.D

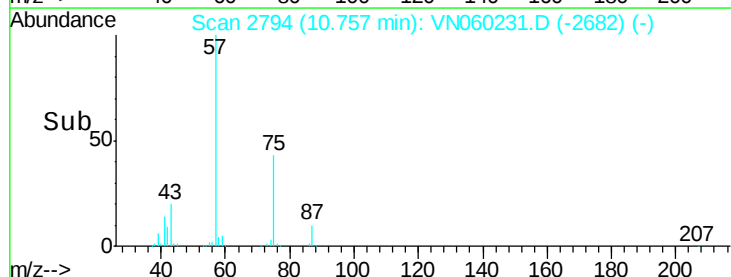
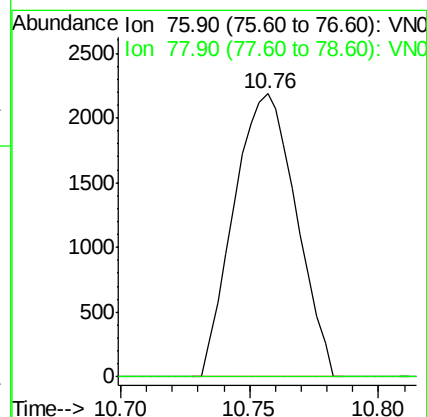
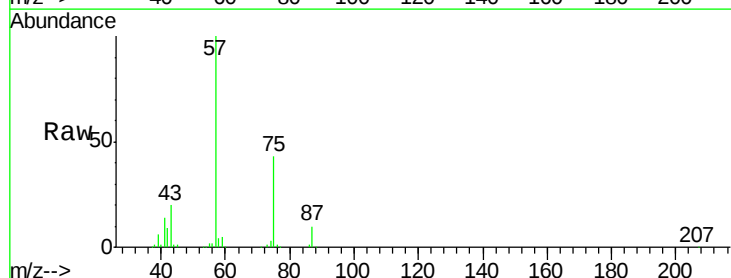
Acq: 25 Feb 2020 14:05

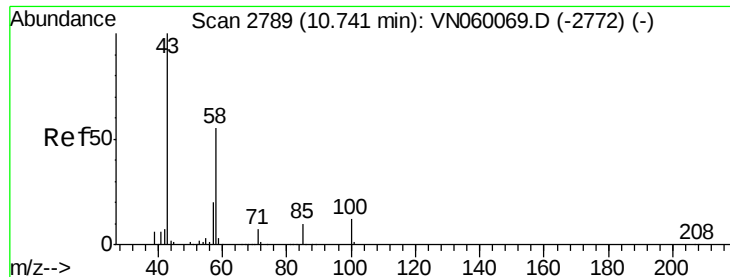
Tgt Ion: 76 Resp: 3681

Ion Ratio Lower Upper

76 100

78 0.0 25.7 38.5#

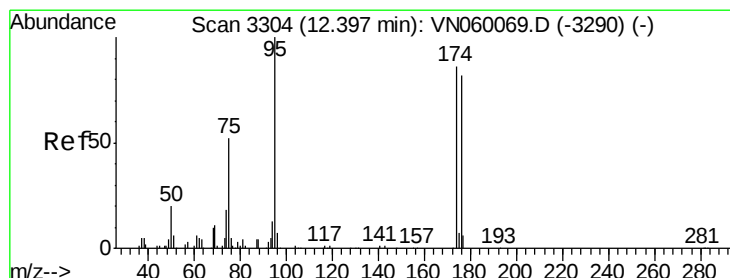
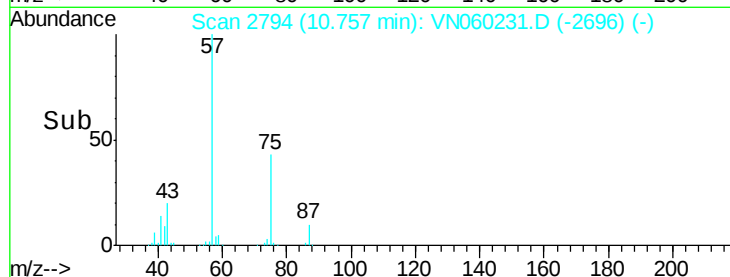
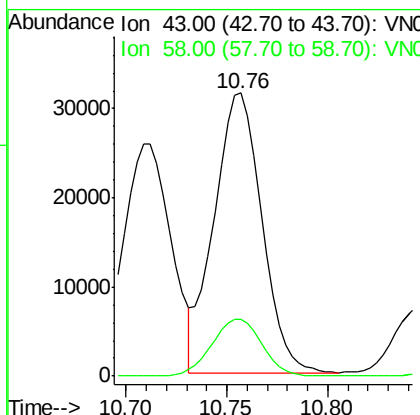
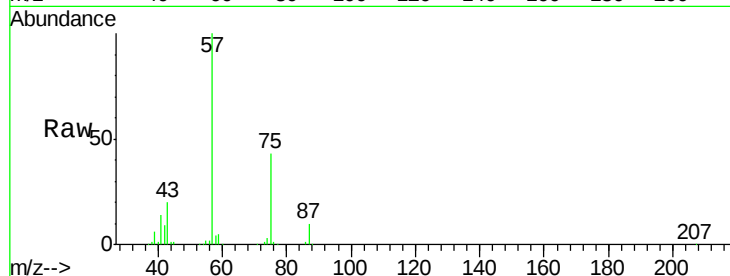




#59
2-Hexanone
Concen: 28.89 ug/l
RT: 10.76 min Scan# 2794
Delta R.T. 0.02 min
Lab File: VN060231.D
Acq: 25 Feb 2020 14:05

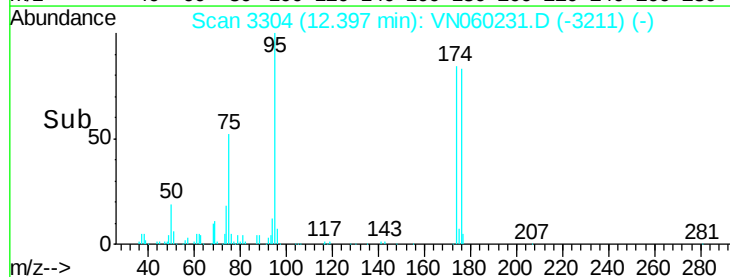
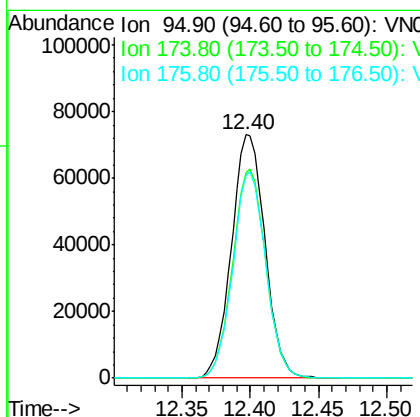
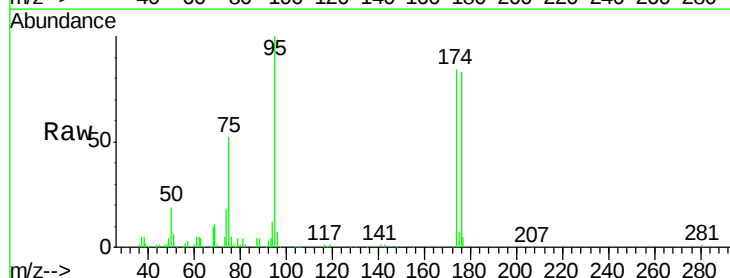
Instrument :
MSVOA_N
ClientSampleId :
PB127055ZHE#12

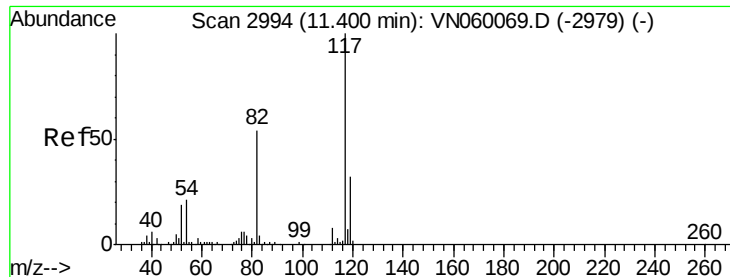
Tgt Ion: 43 Resp: 52370
Ion Ratio Lower Upper
43 100
58 21.0 27.5 82.4#



#62
4-Bromofluorobenzene
Concen: 49.51 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. -0.00 min
Lab File: VN060231.D
Acq: 25 Feb 2020 14:05

Tgt Ion: 95 Resp: 124781
Ion Ratio Lower Upper
95 100
174 84.8 0.0 169.8
176 83.2 0.0 164.8

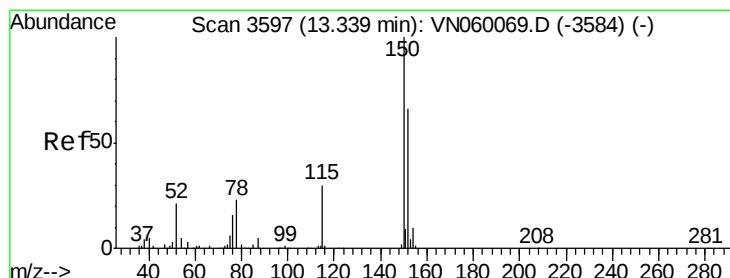
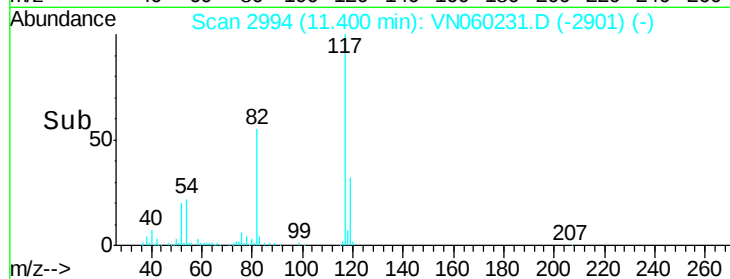
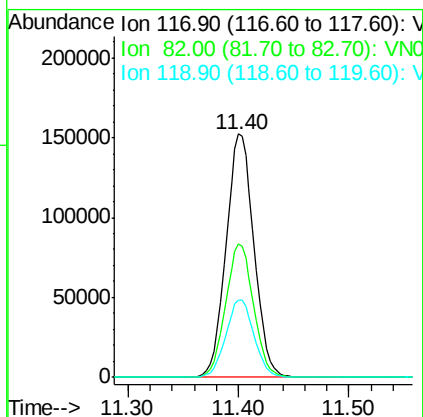
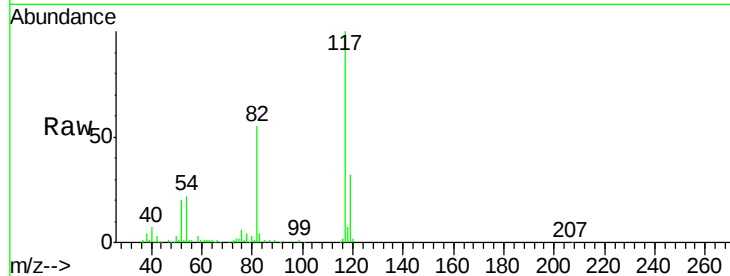




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. -0.00 min
Lab File: VN060231.D
Acq: 25 Feb 2020 14:05

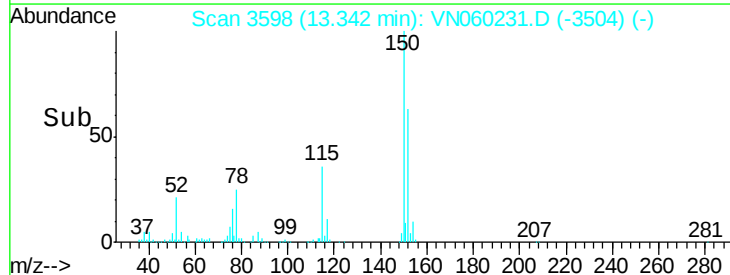
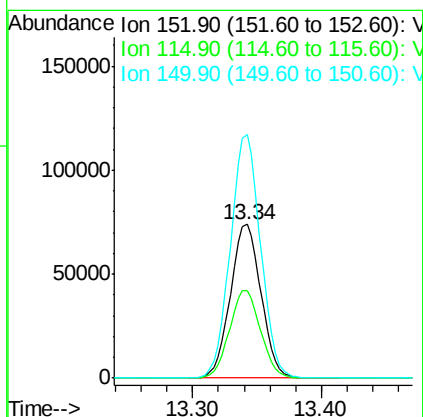
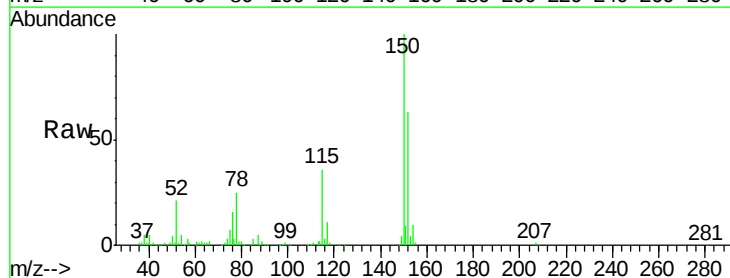
Instrument :
MSVOA_N
ClientSampleId :
PB127055ZHE#12

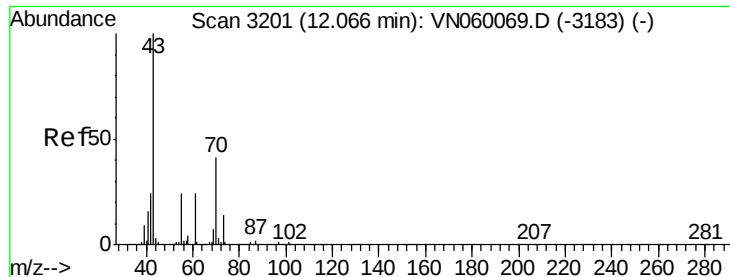
Tgt Ion:117 Resp: 266010
Ion Ratio Lower Upper
117 100
82 54.9 43.4 65.0
119 31.8 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. 0.00 min
Lab File: VN060231.D
Acq: 25 Feb 2020 14:05

Tgt Ion:152 Resp: 122087
Ion Ratio Lower Upper
152 100
115 57.7 28.9 86.8
150 155.9 0.0 342.4





#74

N-ethyl acetate

Concen: 0.77 ug/l

RT: 12.02 min Scan# 3188

Delta R.T. -0.04 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

PB127055ZHE#12

Tgt Ion: 43 Resp: 2517

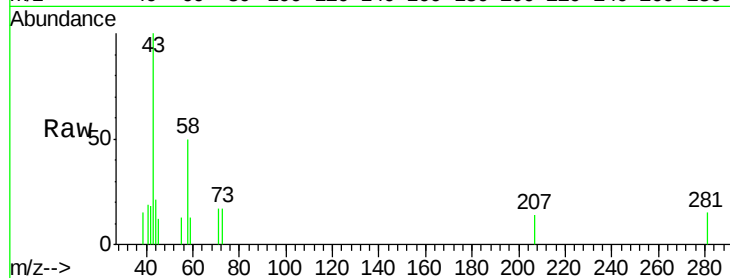
Ion Ratio Lower Upper

43 100

70 0.0 33.4 50.0#

55 2.4 18.8 28.2#

61 0.0 19.2 28.8#

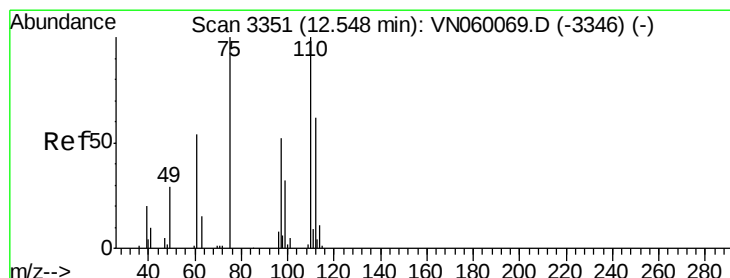
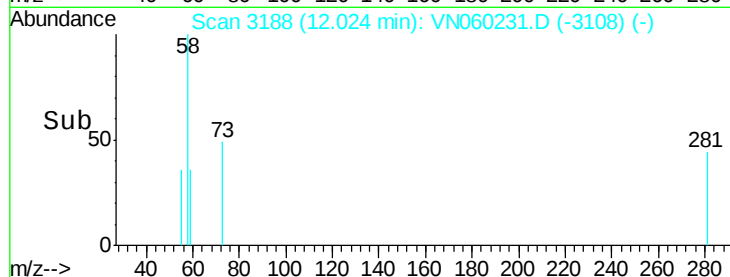
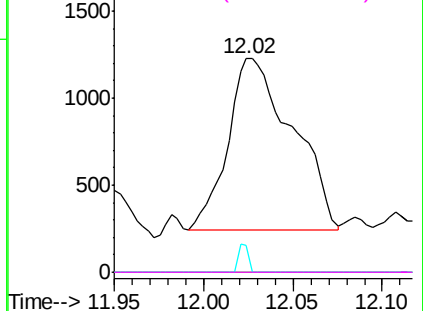


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 27.46 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060231.D

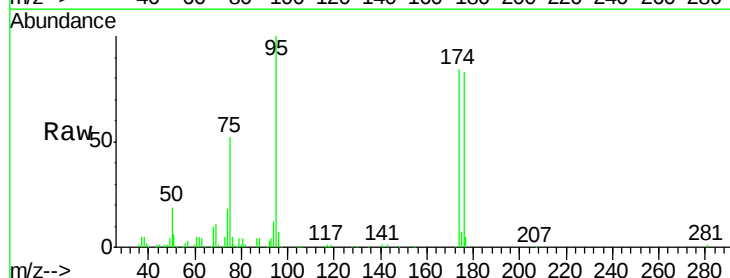
Acq: 25 Feb 2020 14:05

Tgt Ion: 75 Resp: 64143

Ion Ratio Lower Upper

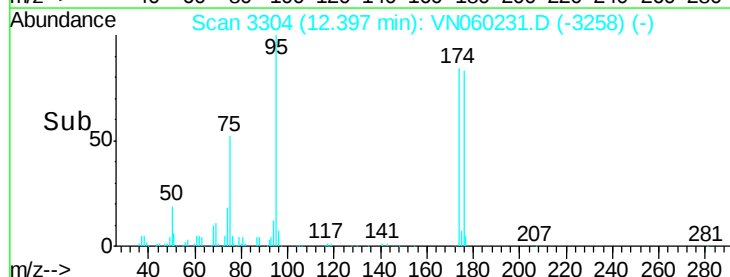
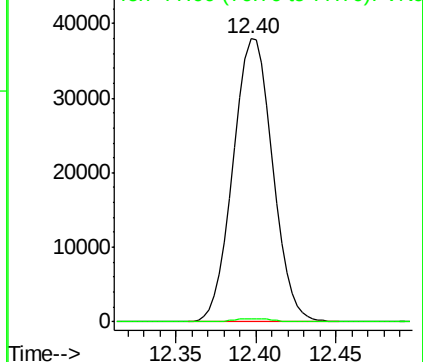
75 100

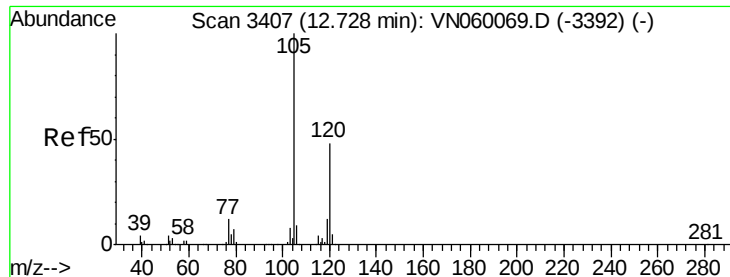
77 1.1 0.0 0.0#



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: 0.34 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

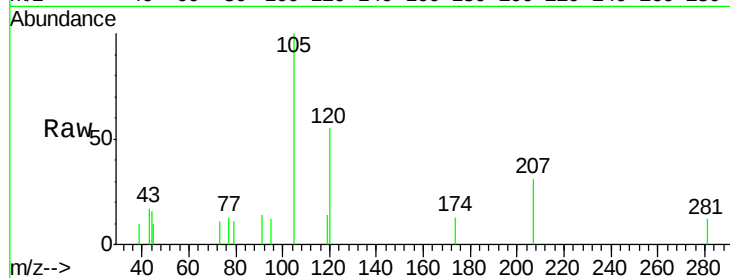
PB127055ZHE#12

Tgt Ion: 105 Resp: 2607

Ion Ratio Lower Upper

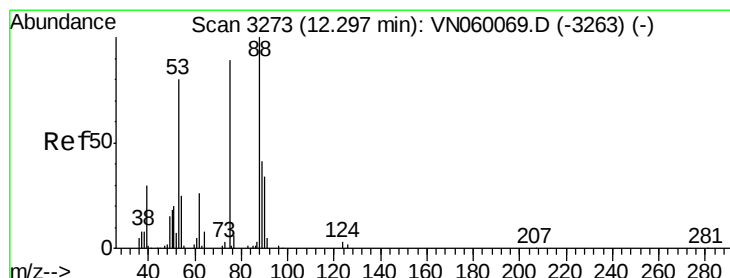
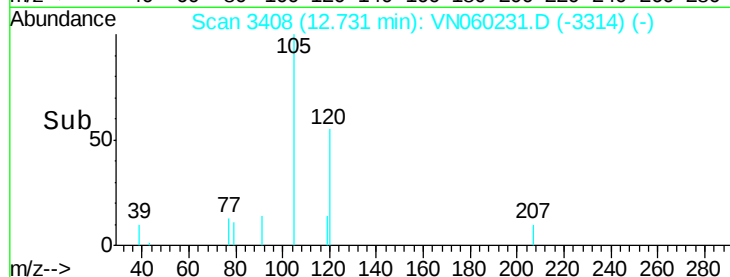
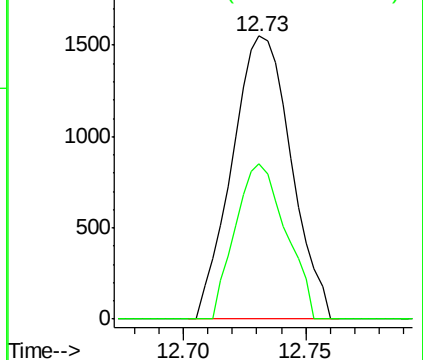
105 100

120 46.8 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: 67.24 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060231.D

Acq: 25 Feb 2020 14:05

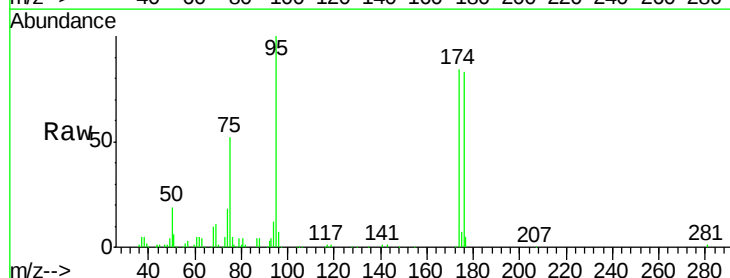
Tgt Ion: 75 Resp: 64143

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

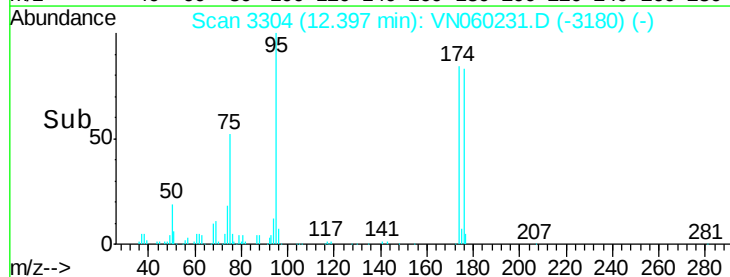
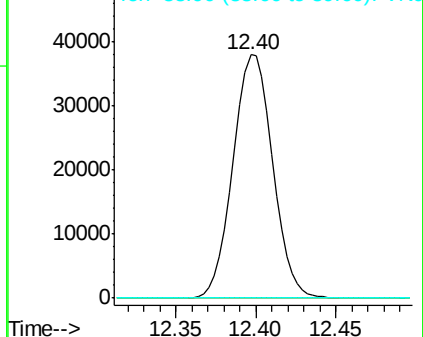
89 0.0 37.0 55.4#

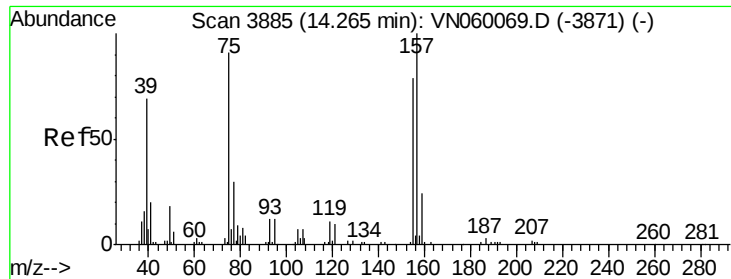


Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO





#92

1,2-Dibromo-3-Chloropropane

Concen: Below Cal

RT: 14.33 min Scan# 3905

Delta R.T. 0.07 min

Lab File: VN060231.D

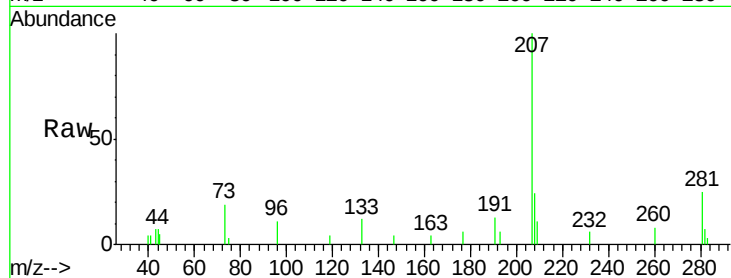
Acq: 25 Feb 2020 14:05

Instrument :

MSVOA_N

ClientSampleId :

PB127055ZHE#12



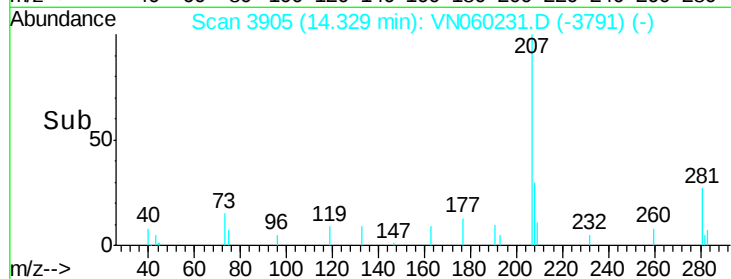
Tgt Ion: 75 Resp: 29

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): VN0

Ion 154.80 (154.50 to 155.50): V

Ion 156.80 (156.50 to 157.50): V

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