

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN032720\
 Data File : VN060751.D
 Acq On : 27 Mar 2020 19:08
 Operator : JC/MD
 Sample : PB127814ZHE#16
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127814ZHE#16

Quant Time: Mar 28 02:02:37 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N031820W.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 18 08:49:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	200109	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	332837	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	315595	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	144970	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	128974	46.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.90%	
35) Dibromofluoromethane	7.56	113	99402	49.39	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.78%	
50) Toluene-d8	10.08	98	416780	50.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.40%	
62) 4-Bromofluorobenzene	12.40	95	155283	51.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.08%	

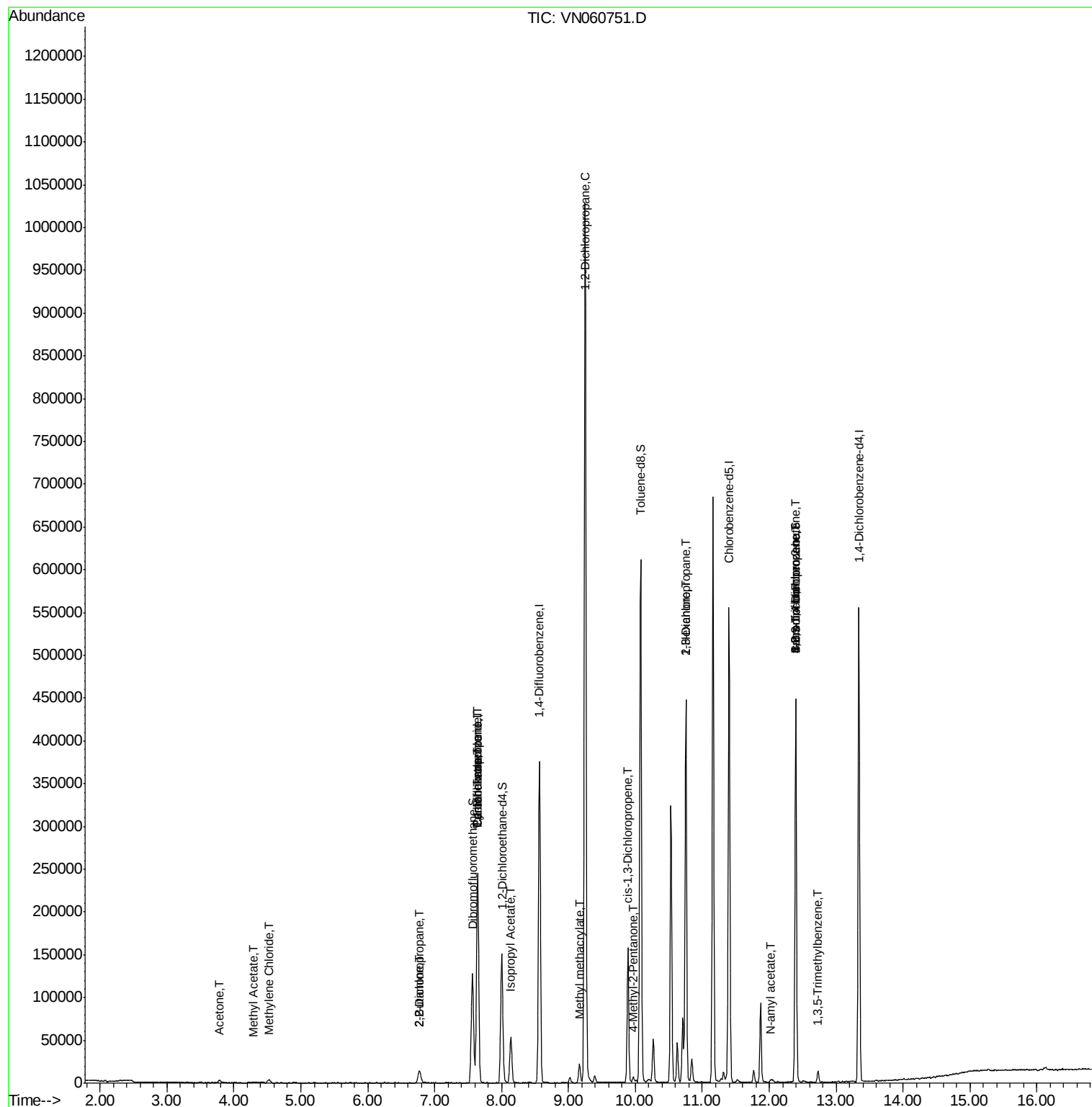
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	5550	5.704	ug/l	98
18) Methyl Acetate	4.29	43	1953	0.713	ug/l #	64
20) Methylene Chloride	4.52	84	2757	1.152	ug/l	97
25) 2-Butanone	6.77	43	695	0.441	ug/l #	50
26) 2,2-Dichloropropane	6.77	77	872	0.253	ug/l #	53
31) Cyclohexane	7.64	56	4121	0.931	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	15663	4.860	ug/l #	50
38) Carbon Tetrachloride	7.64	117	19377	6.708	ug/l #	16
43) Isopropyl Acetate	8.14	43	64472	11.226	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1146	0.446	ug/l #	43
48) Methyl methacrylate	9.16	41	3180	1.244	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4621	1.414	ug/l	90
54) cis-1,3-Dichloropropene	9.89	75	27607	6.793	ug/l #	59
57) 1,3-Dichloropropane	10.75	76	4678	1.193	ug/l #	42
59) 2-Hexanone	10.75	43	65365	27.765	ug/l #	52
71) Bromoform	12.39	173	234	1.801	ug/l #	1
74) N-amyl acetate	12.02	43	2308	0.459	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	79151	25.303	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7459	0.808	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	79151	64.985	ug/l #	13

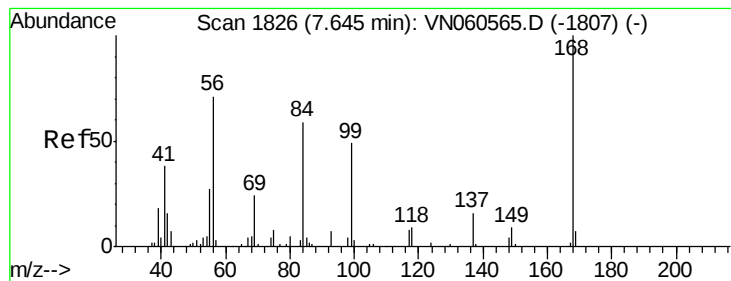
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.00 min

Lab File: VN060751.D

Acq: 27 Mar 2020 19:08

Instrument :

MSVOA_N

ClientSampleId :

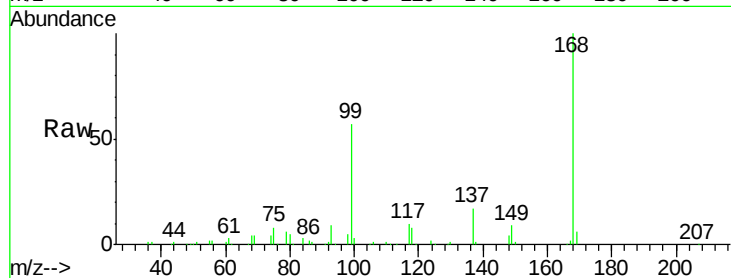
PB127814ZHE#16

Tgt Ion:168 Resp: 200109

Ion Ratio Lower Upper

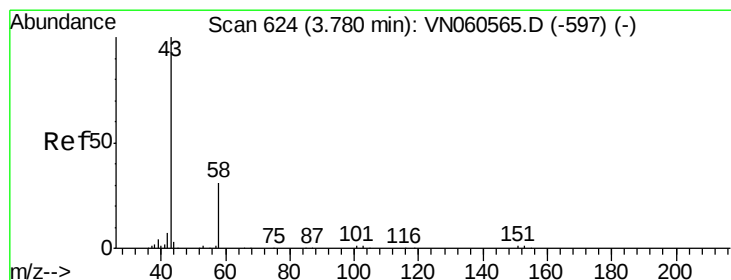
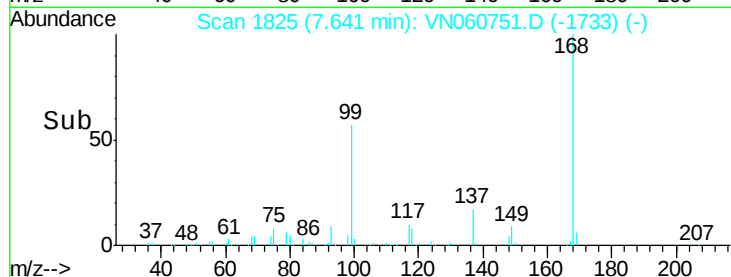
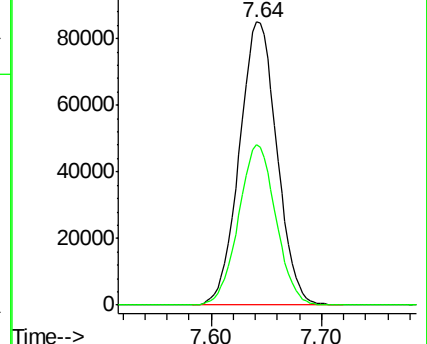
168 100

99 56.5 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#16

Acetone

Concen: 5.704 ug/l

RT: 3.79 min Scan# 626

Delta R.T. 0.01 min

Lab File: VN060751.D

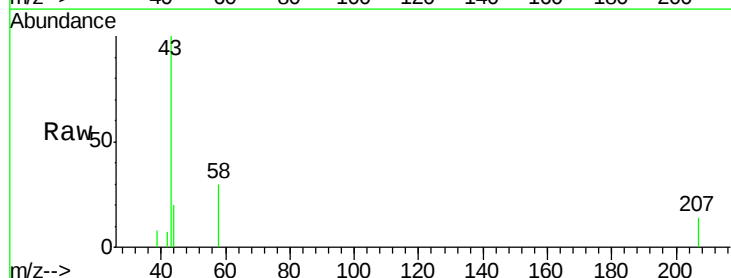
Acq: 27 Mar 2020 19:08

Tgt Ion: 43 Resp: 5550

Ion Ratio Lower Upper

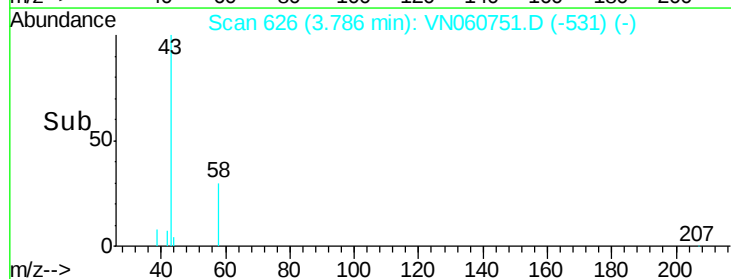
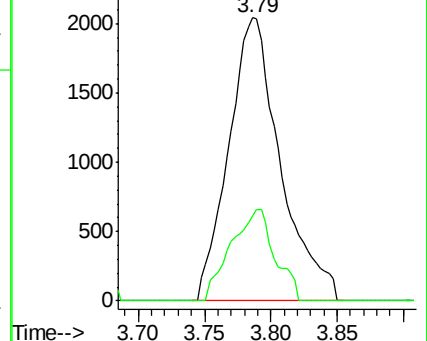
43 100

58 30.2 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 58.00 (57.70 to 58.70): VNO

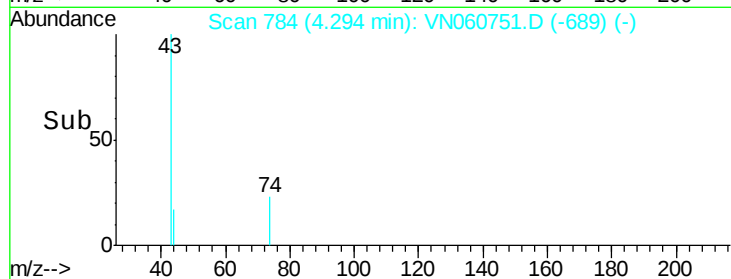
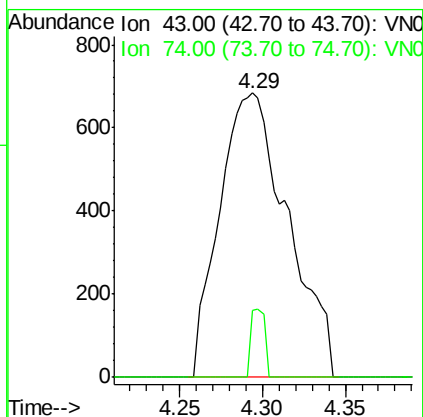
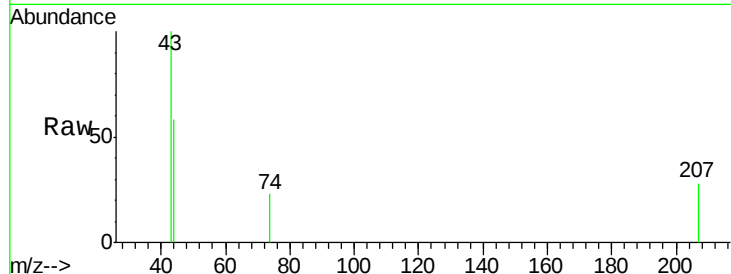




#18
Methyl Acetate
Concen: 0.713 ug/l
RT: 4.29 min Scan# 784
Delta R.T. 0.01 min
Lab File: VN060751.D
Acq: 27 Mar 2020 19:08

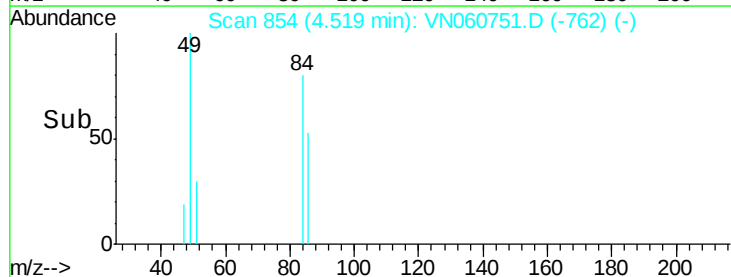
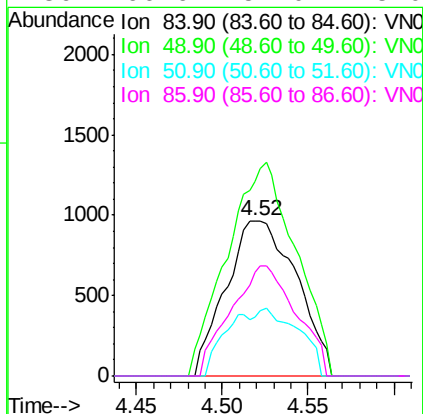
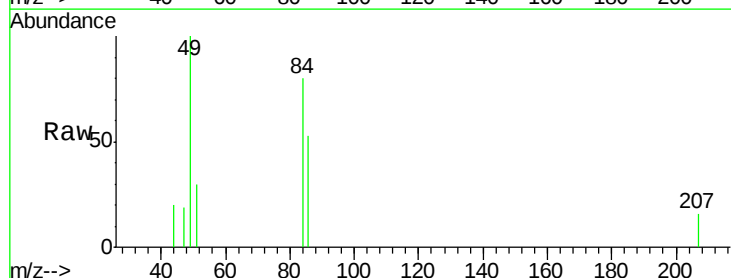
Instrument :
MSVOA_N
ClientSampleId :
PB127814ZHE#16

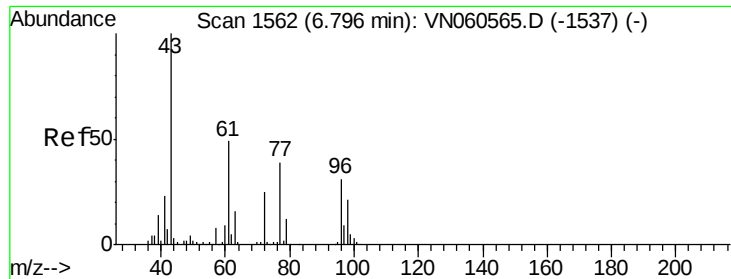
Tgt Ion: 43 Resp: 1953
Ion Ratio Lower Upper
43 100
74 4.7 17.5 26.3#



#20
Methylene Chloride
Concen: 1.152 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060751.D
Acq: 27 Mar 2020 19:08

Tgt Ion: 84 Resp: 2757
Ion Ratio Lower Upper
84 100
49 125.1 103.3 154.9
51 37.5 31.6 47.4
86 66.6 52.0 78.0





#25

2-Butanone

Concen: 0.441 ug/l

RT: 6.77 min Scan# 1554

Delta R.T. -0.03 min

Lab File: VN060751.D

Acq: 27 Mar 2020 19:08

Instrument :

MSVOA_N

ClientSampleId :

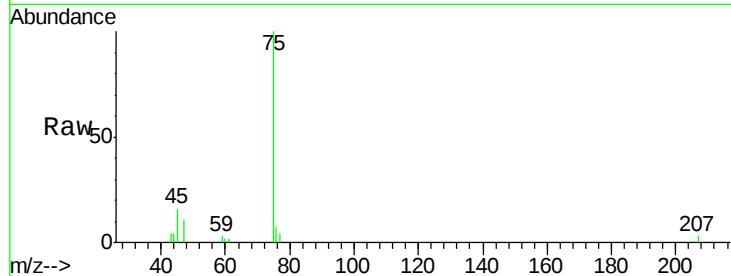
PB127814ZHE#16

Tgt Ion: 43 Resp: 695

Ion Ratio Lower Upper

43 100

72 0.0 20.4 30.6#

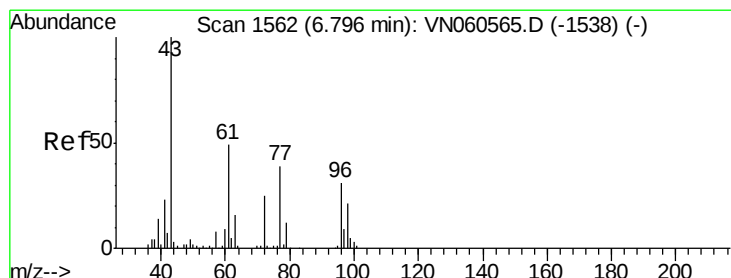
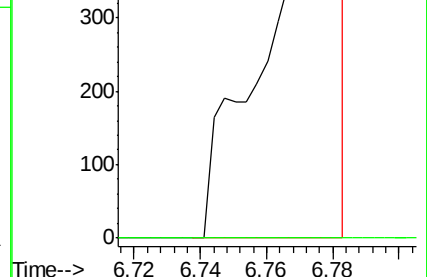
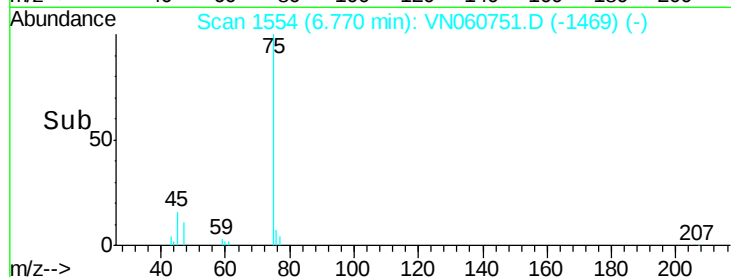


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

6.77

Time-->



#26

2,2-Dichloropropane

Concen: 0.253 ug/l

RT: 6.77 min Scan# 1554

Delta R.T. -0.03 min

Lab File: VN060751.D

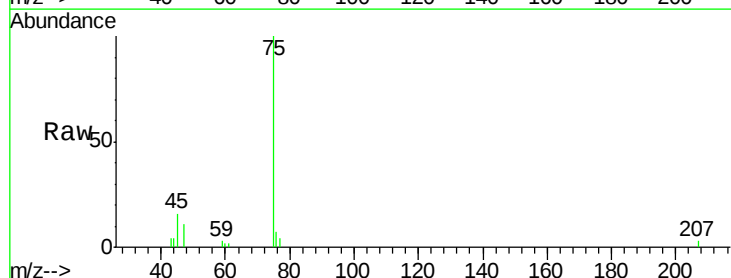
Acq: 27 Mar 2020 19:08

Tgt Ion: 77 Resp: 872

Ion Ratio Lower Upper

77 100

97 0.0 11.4 34.1#

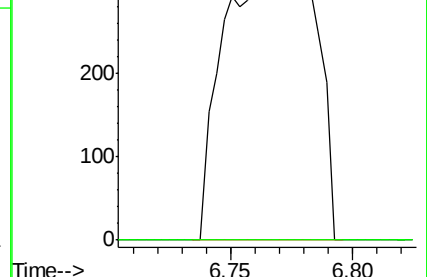
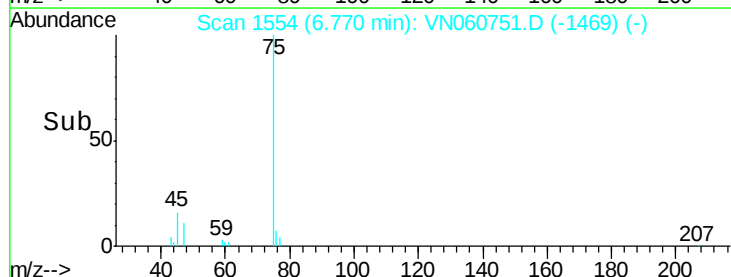


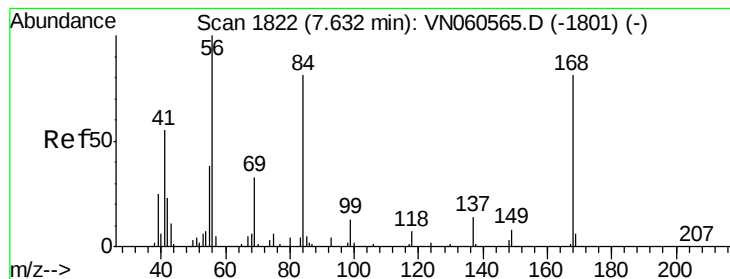
Abundance Ion 76.90 (76.60 to 77.60): VN0

Ion 96.90 (96.60 to 97.60): VN0

6.77

Time-->





#31

Cyclohexane

Concen: 0.931 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. 0.01 min

Lab File: VN060751.D

Acq: 27 Mar 2020 19:08

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#16

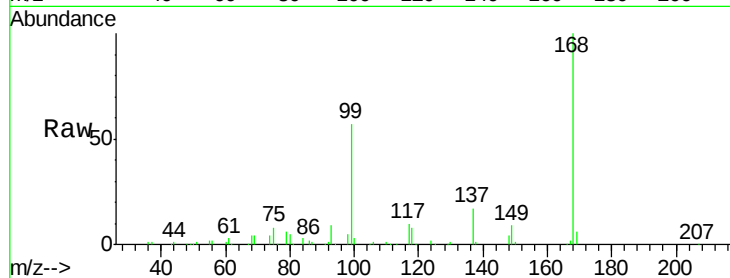
Tgt Ion: 56 Resp: 4121

Ion Ratio Lower Upper

56 100

69 199.6 26.6 40.0#

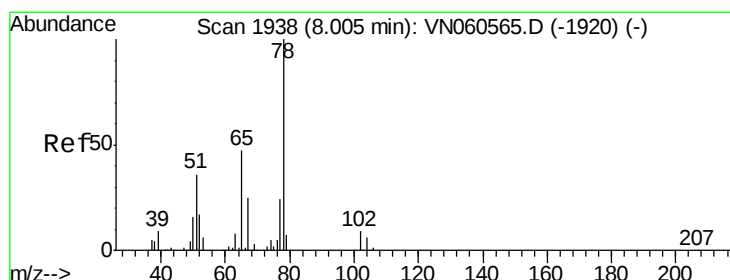
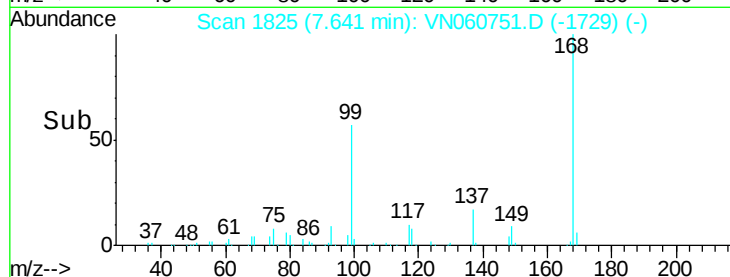
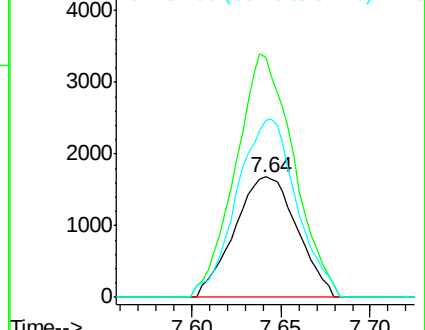
84 146.9 64.3 96.5#



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: 46.950 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060751.D

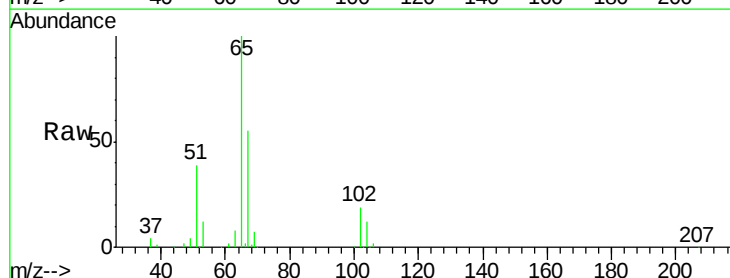
Acq: 27 Mar 2020 19:08

Tgt Ion: 65 Resp: 128974

Ion Ratio Lower Upper

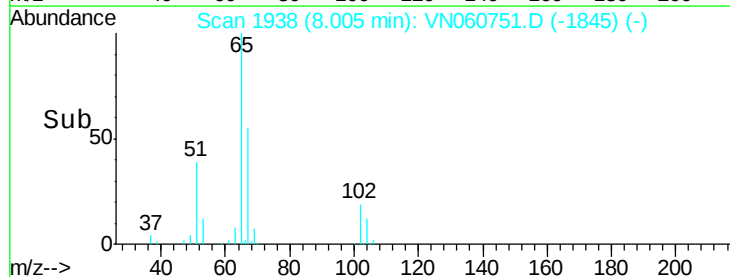
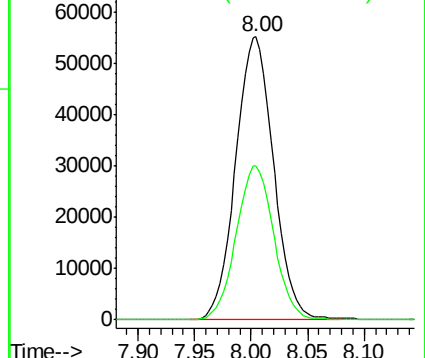
65 100

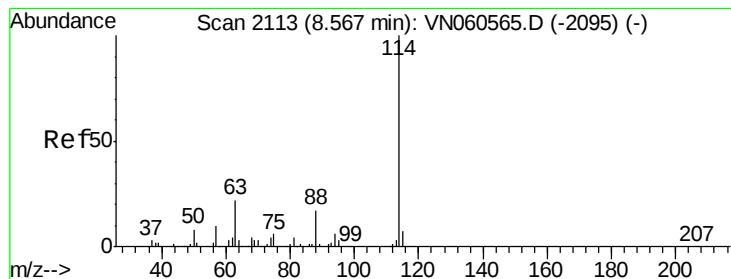
67 54.1 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN060751.D

Acq: 27 Mar 2020 19:08

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#16

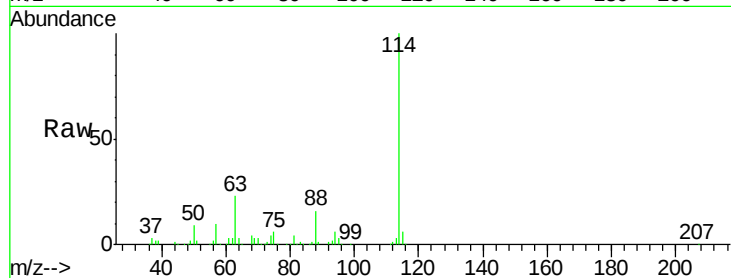
Tgt Ion:114 Resp: 332837

Ion Ratio Lower Upper

114 100

63 22.6 0.0 43.8

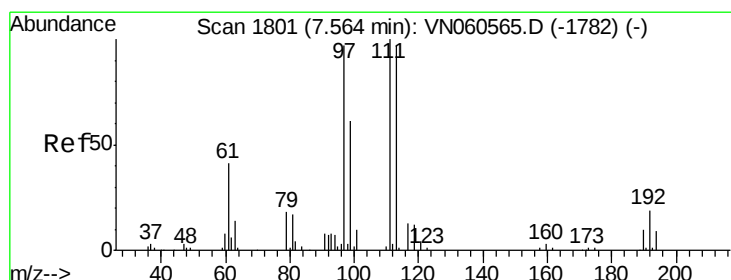
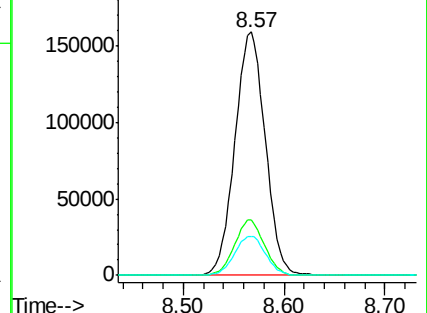
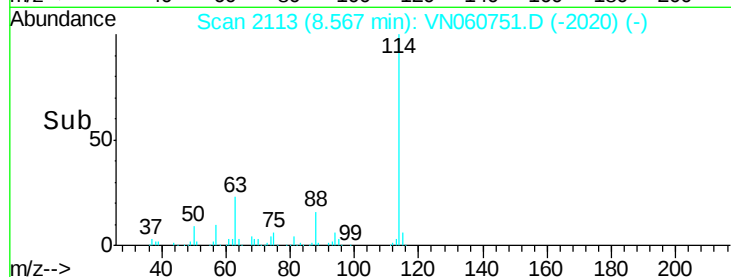
88 16.2 0.0 33.0



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: 49.391 ug/l

RT: 7.56 min Scan# 1801

Delta R.T. -0.00 min

Lab File: VN060751.D

Acq: 27 Mar 2020 19:08

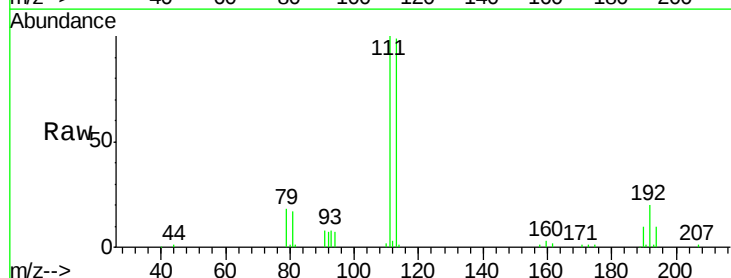
Tgt Ion:113 Resp: 99402

Ion Ratio Lower Upper

113 100

111 102.6 82.9 124.3

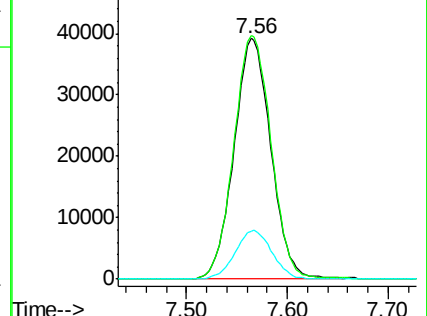
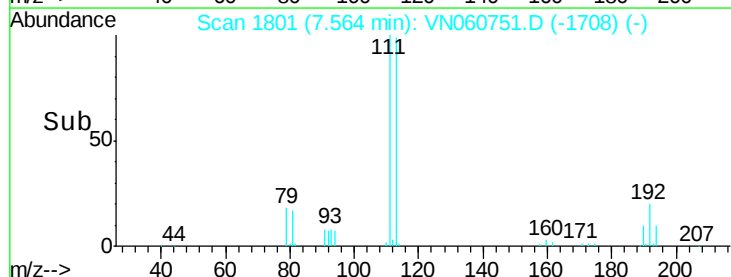
192 20.1 15.8 23.8

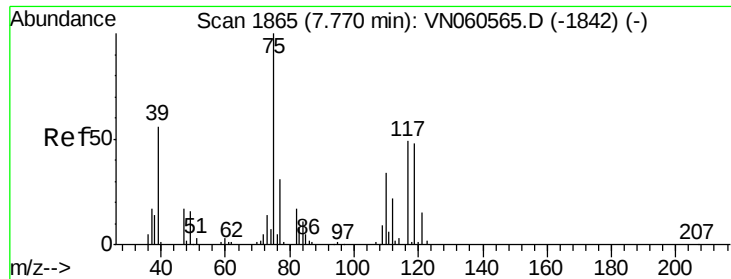


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

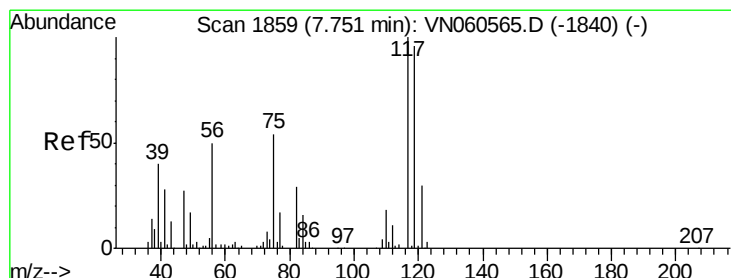
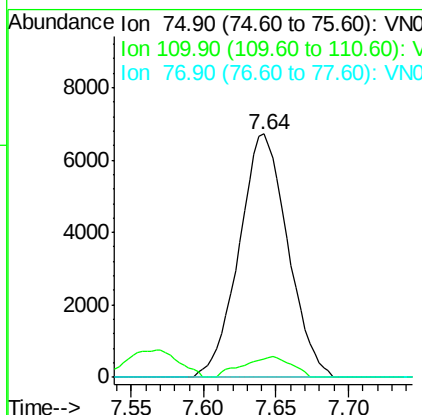
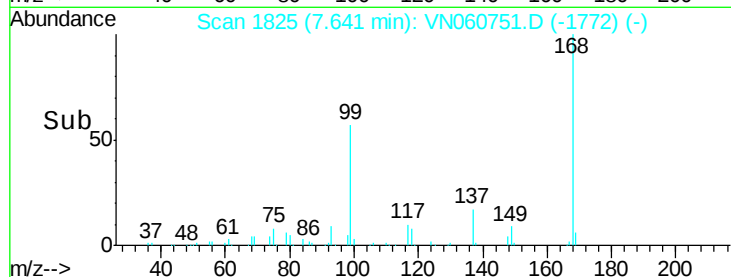
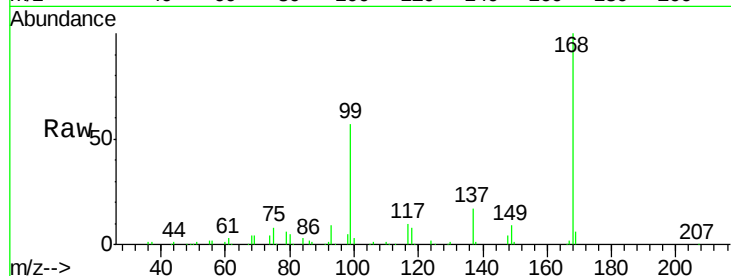




#36
 1,1-Dichloropropene
 Concen: 4.860 ug/l
 RT: 7.64 min Scan# 1825
 Delta R.T. -0.13 min
 Lab File: VN060751.D
 Acq: 27 Mar 2020 19:08

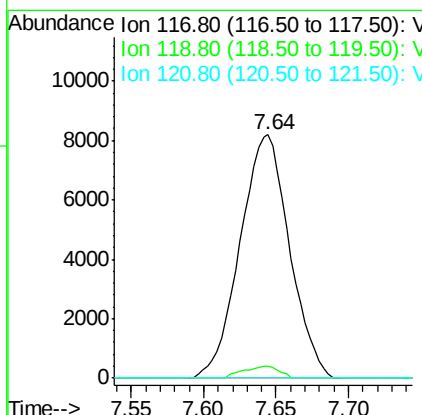
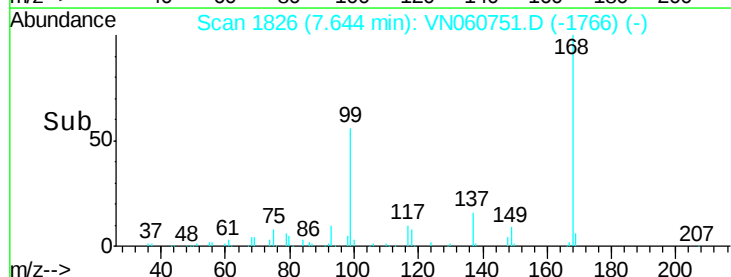
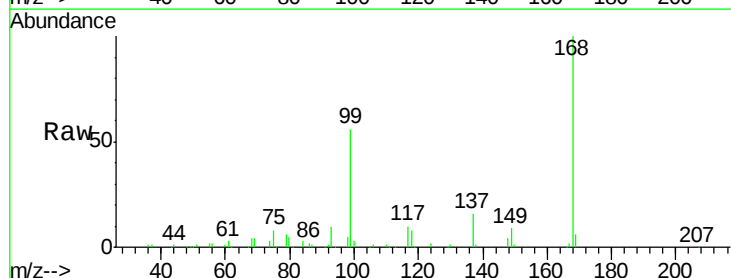
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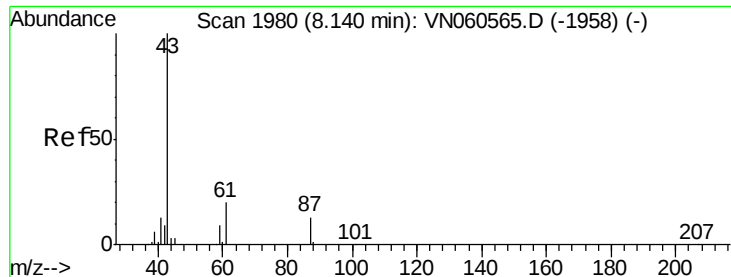
Tgt Ion: 75 Resp: 15663
 Ion Ratio Lower Upper
 75 100
 110 8.4 16.9 50.6#
 77 0.0 24.6 36.8#



#38
 Carbon Tetrachloride
 Concen: 6.708 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN060751.D
 Acq: 27 Mar 2020 19:08

Tgt Ion: 117 Resp: 19377
 Ion Ratio Lower Upper
 117 100
 119 5.1 76.2 114.2#
 121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 11.226 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060751.D

Acq: 27 Mar 2020 19:08

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#16

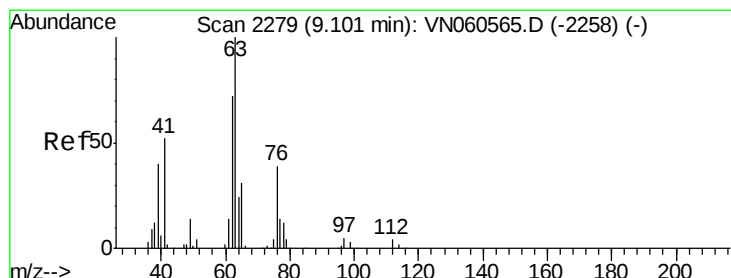
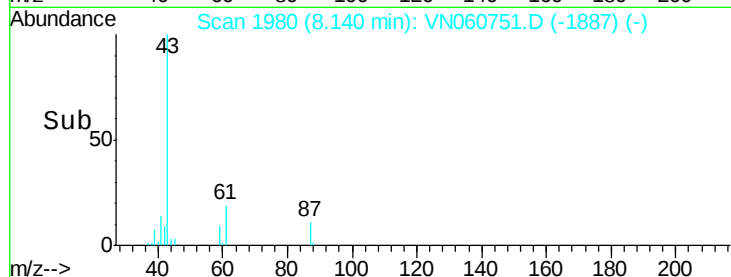
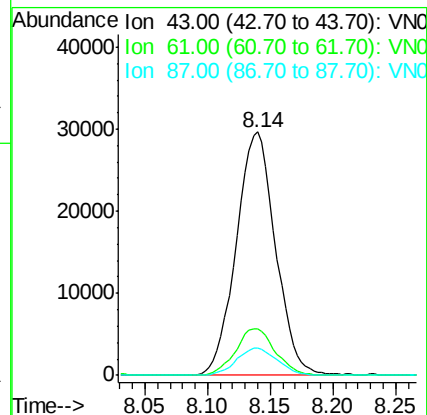
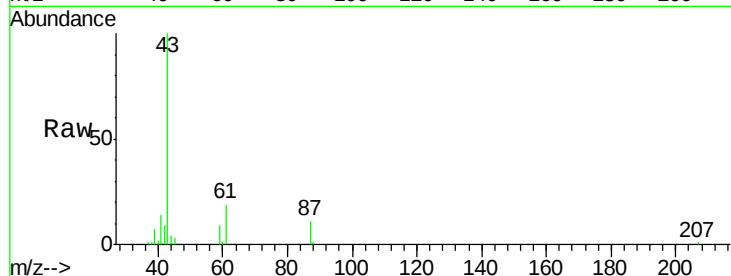
Tgt Ion: 43 Resp: 64472

Ion Ratio Lower Upper

43 100

61 19.3 20.7 31.1#

87 11.5 9.8 14.8



#45

1,2-Dichloropropane

Concen: 0.446 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060751.D

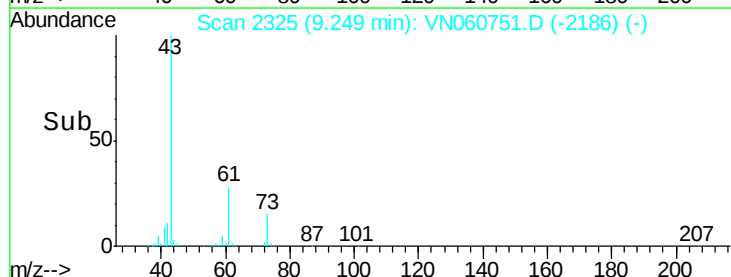
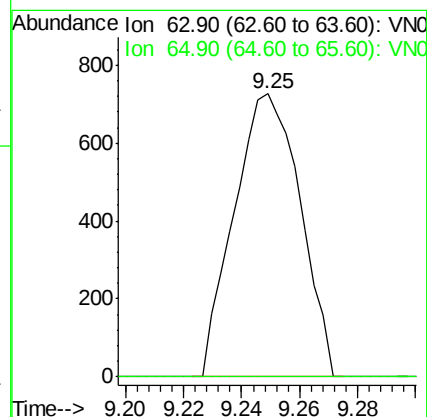
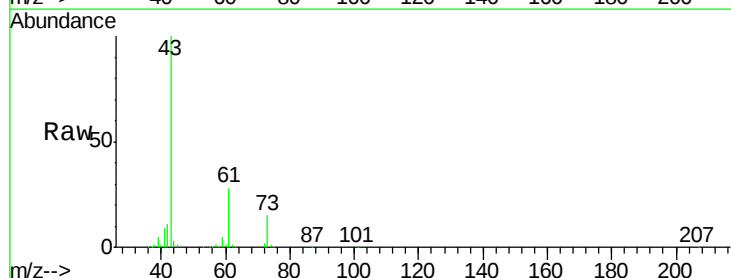
Acq: 27 Mar 2020 19:08

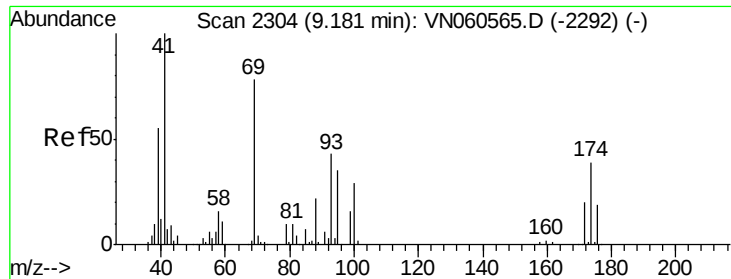
Tgt Ion: 63 Resp: 1146

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#

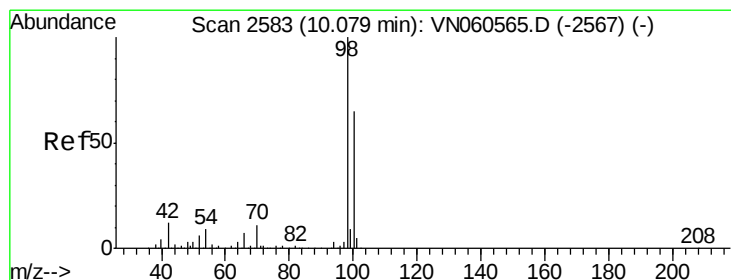
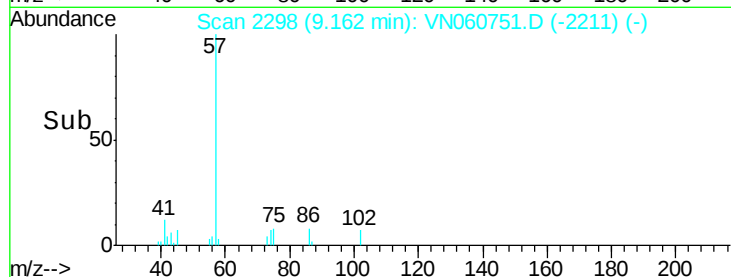
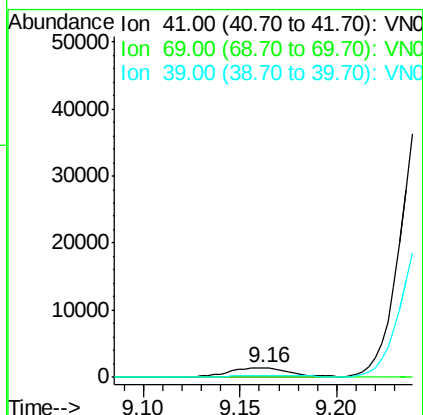
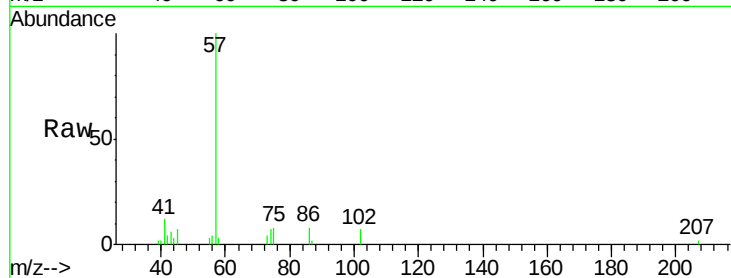




#48
Methyl methacrylate
Concen: 1.244 ug/l
RT: 9.16 min Scan# 2298
Delta R.T. -0.02 min
Lab File: VN060751.D
Acq: 27 Mar 2020 19:08

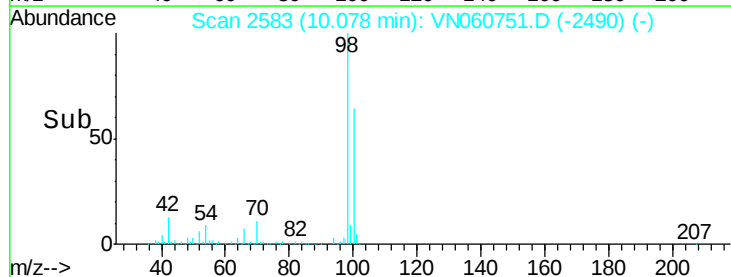
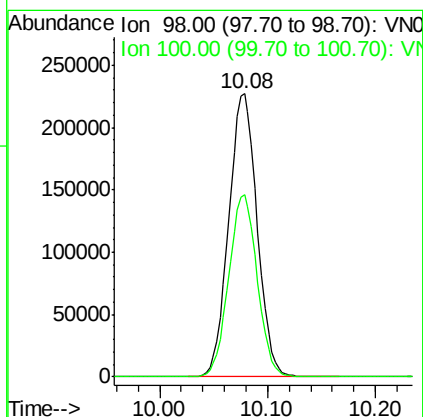
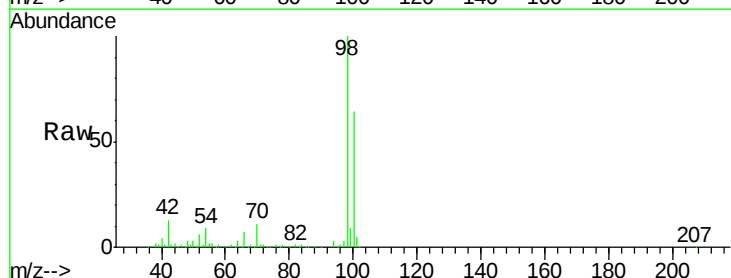
Instrument :
MSVOA_N
ClientSampleId :
PB127814ZHE#16

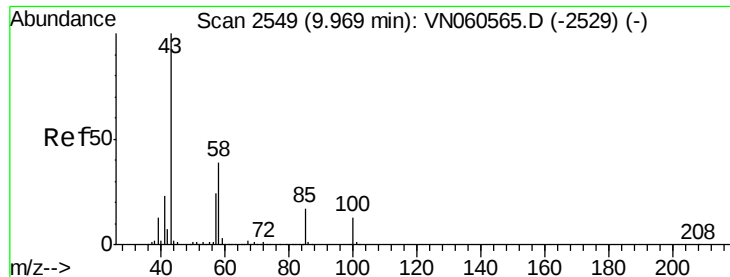
Tgt Ion: 41 Resp: 3180
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 50.700 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060751.D
Acq: 27 Mar 2020 19:08

Tgt Ion: 98 Resp: 416780
Ion Ratio Lower Upper
98 100
100 64.4 51.8 77.8

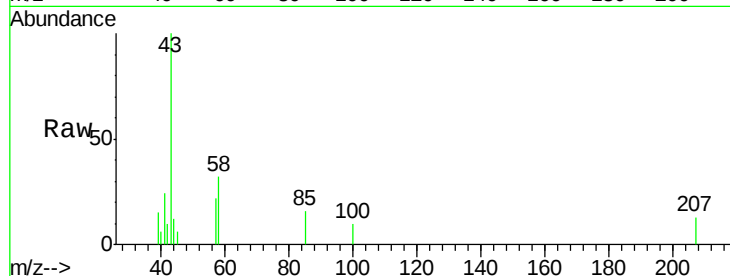




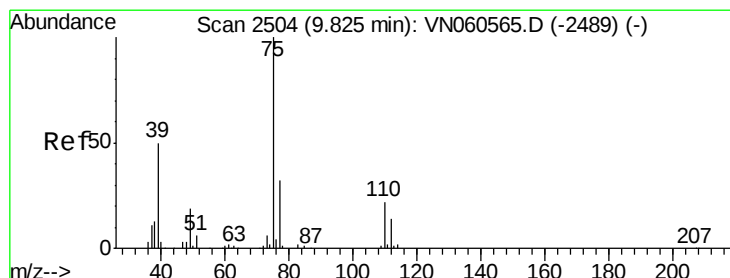
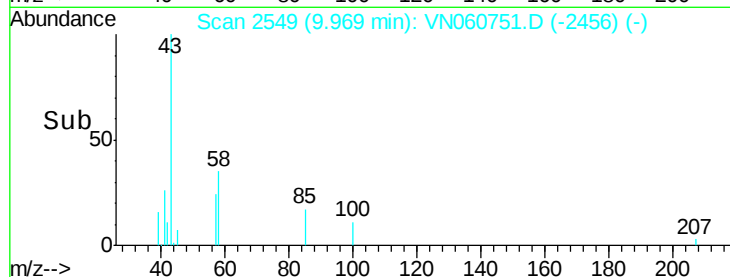
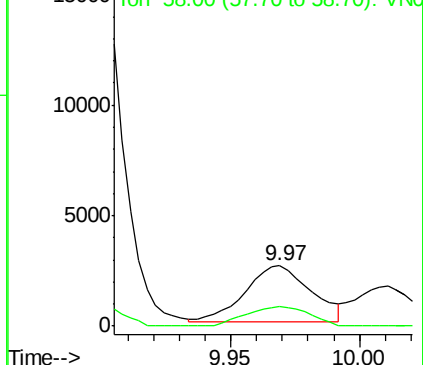
#51
 4-Methyl-2-Pentanone
 Concen: 1.414 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. -0.00 min
 Lab File: VN060751.D
 Acq: 27 Mar 2020 19:08

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127814ZHE#16

Tgt Ion: 43 Resp: 4621
 Ion Ratio Lower Upper
 43 100
 58 32.5 30.8 46.2

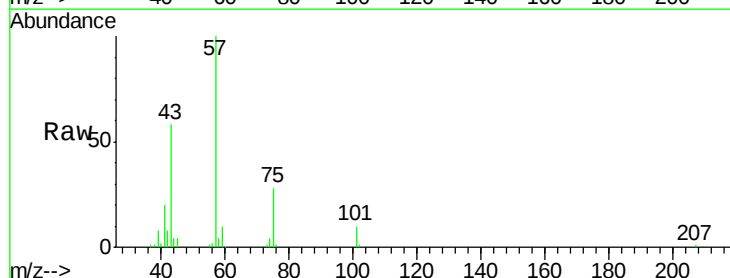


Abundance Ion 43.00 (42.70 to 43.70): VN0
 Ion 58.00 (57.70 to 58.70): VN0

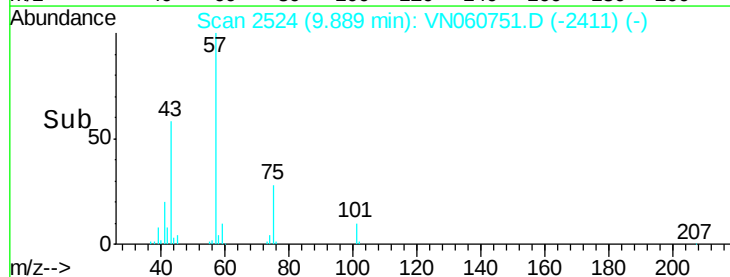
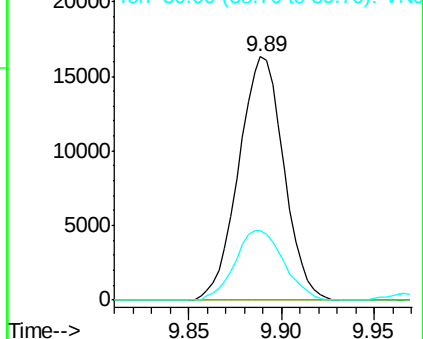


#54
 cis-1,3-Dichloropropene
 Concen: 6.793 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060751.D
 Acq: 27 Mar 2020 19:08

Tgt Ion: 75 Resp: 27607
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 28.5 40.2 60.4#



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: 1.193 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060751.D

Acq: 27 Mar 2020 19:08

Instrument :

MSVOA_N

ClientSampleId :

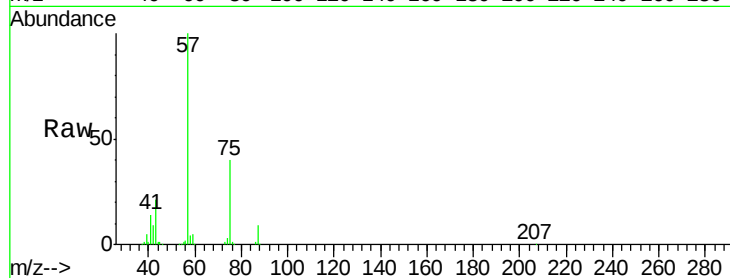
PB127814ZHE#16

Tgt Ion: 76 Resp: 4678

Ion Ratio Lower Upper

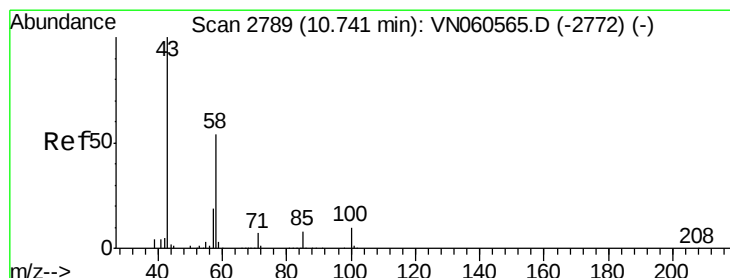
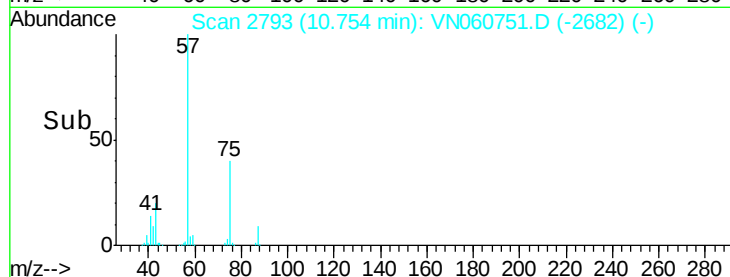
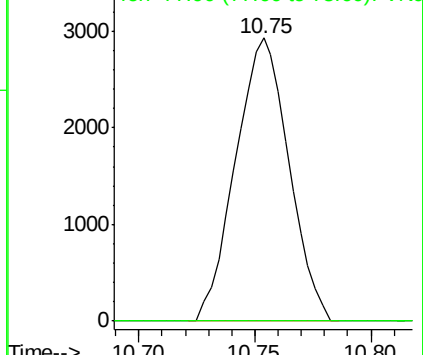
76 100

78 0.0 25.8 38.6#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 27.765 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060751.D

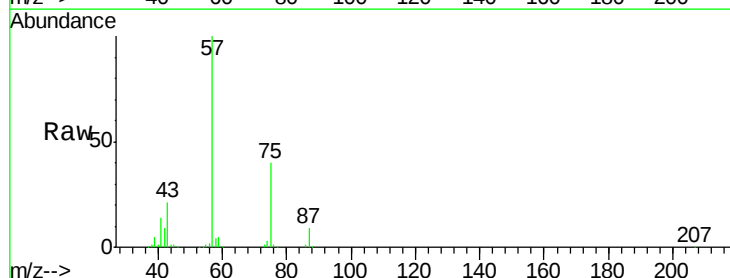
Acq: 27 Mar 2020 19:08

Tgt Ion: 43 Resp: 65365

Ion Ratio Lower Upper

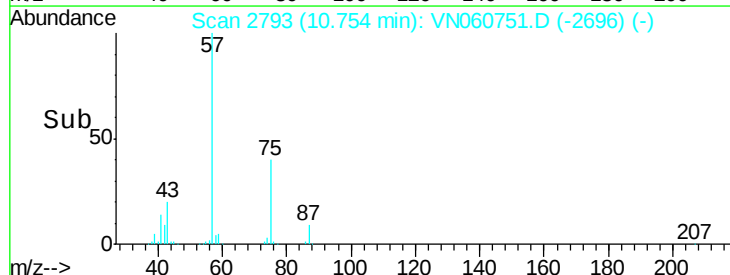
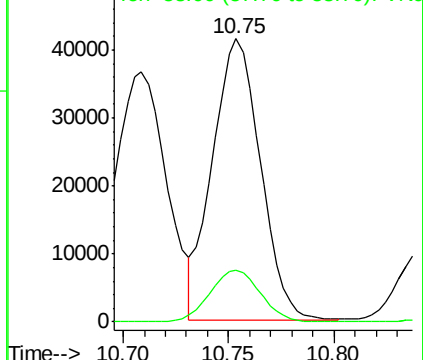
43 100

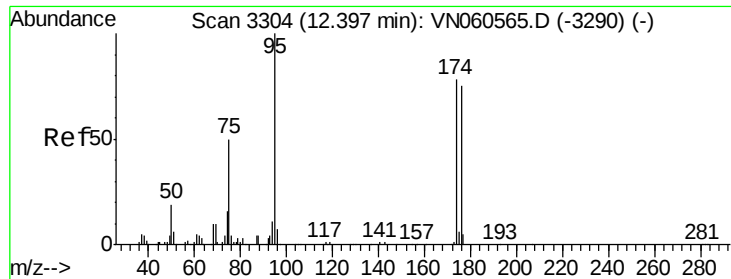
58 19.5 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 51.543 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060751.D

Acq: 27 Mar 2020 19:08

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#16

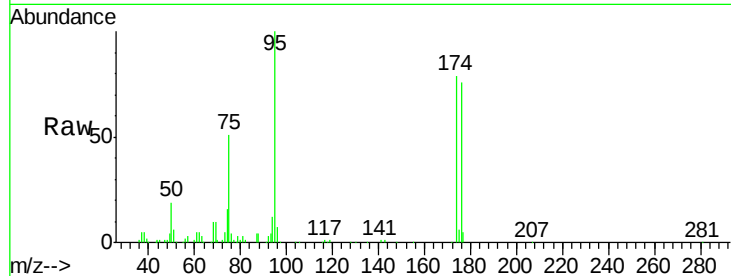
Tgt Ion: 95 Resp: 155283

Ion Ratio Lower Upper

95 100

174 78.0 0.0 157.6

176 75.9 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN060751.D (-3290) (-)

Ion 173.80 (173.50 to 174.50): VN060751.D (-3290) (-)

Ion 175.80 (175.50 to 176.50): VN060751.D (-3290) (-)

12.40

80000

60000

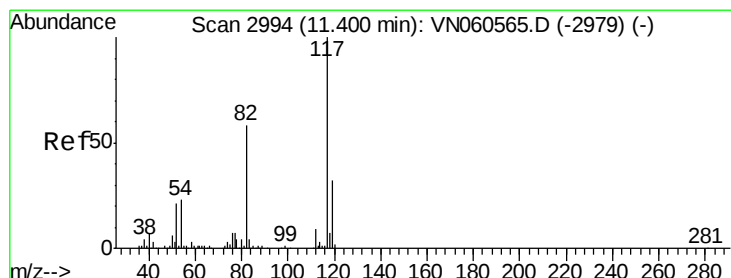
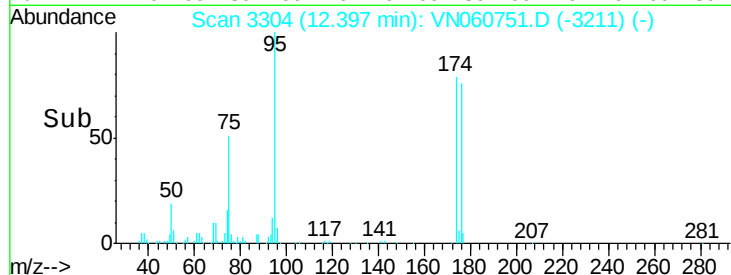
40000

20000

0

12.35 12.40 12.45

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060751.D

Acq: 27 Mar 2020 19:08

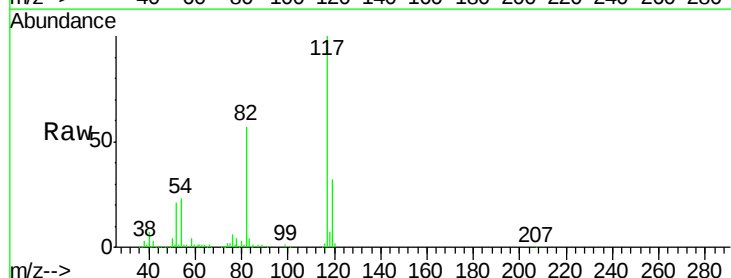
Tgt Ion: 117 Resp: 315595

Ion Ratio Lower Upper

117 100

82 57.4 46.7 70.1

119 32.3 25.5 38.3



Abundance Ion 116.90 (116.60 to 117.60): VN060751.D (-2979) (-)

Ion 82.00 (81.70 to 82.70): VN060751.D (-2979) (-)

Ion 118.90 (118.60 to 119.60): VN060751.D (-2979) (-)

11.40

250000

200000

150000

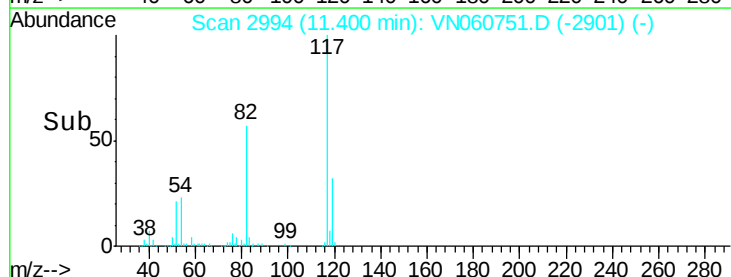
100000

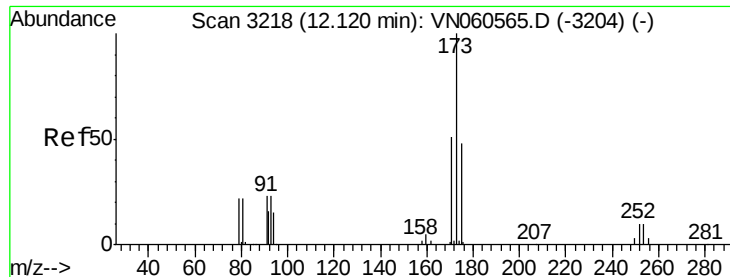
50000

0

11.30 11.40 11.50

Time-->





#71

Bromoform

Concen: 1.801 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN060751.D

Acq: 27 Mar 2020 19:08

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#16

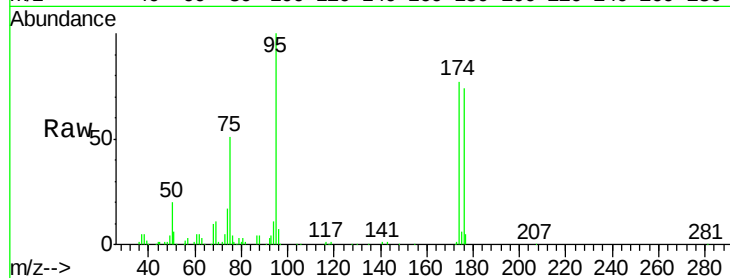
Tgt Ion:173 Resp: 234

Ion Ratio Lower Upper

173 100

175 3160.7 24.1 72.4#

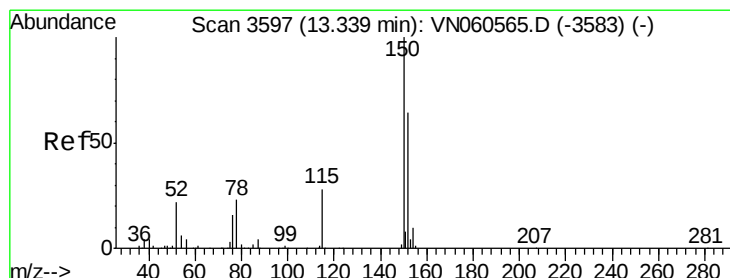
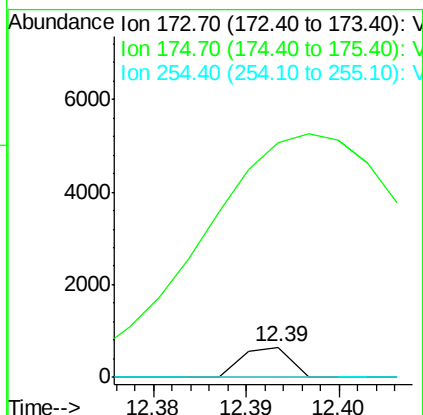
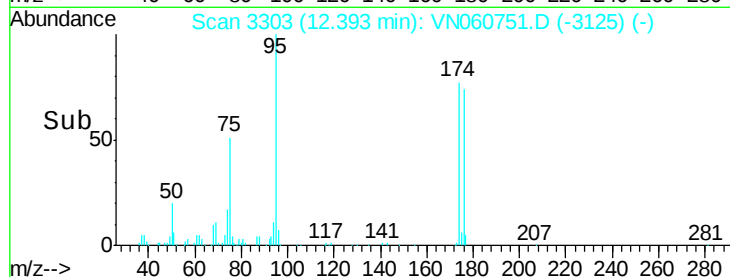
254 0.0 0.0 0.0



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060751.D

Acq: 27 Mar 2020 19:08

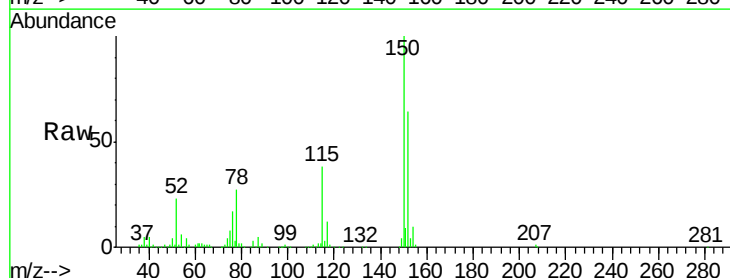
Tgt Ion:152 Resp: 144970

Ion Ratio Lower Upper

152 100

115 59.6 30.2 90.6

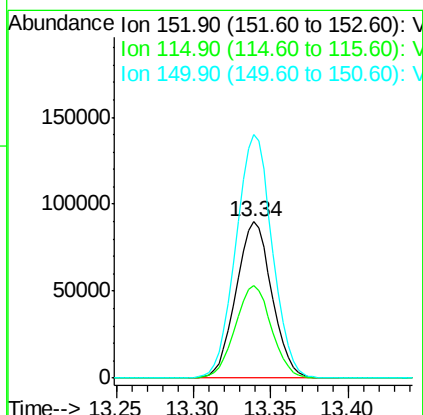
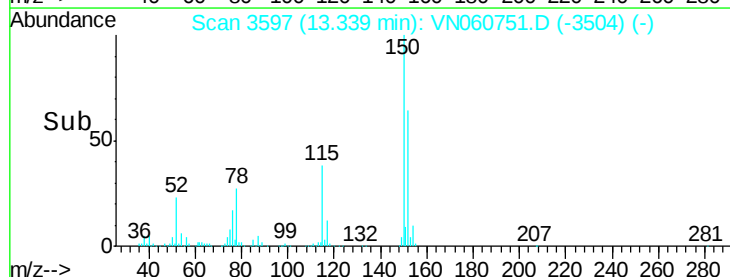
150 157.5 0.0 350.2



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: 0.459 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060751.D

Acq: 27 Mar 2020 19:08

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#16

Tgt Ion: 43 Resp: 2308

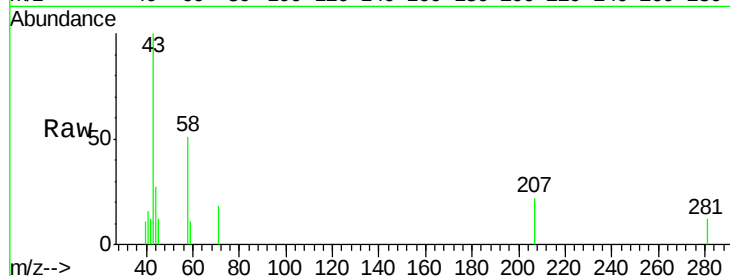
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

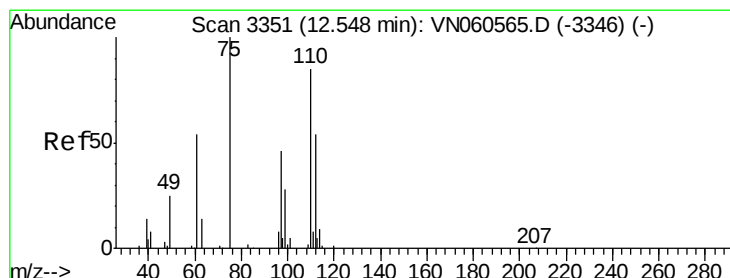
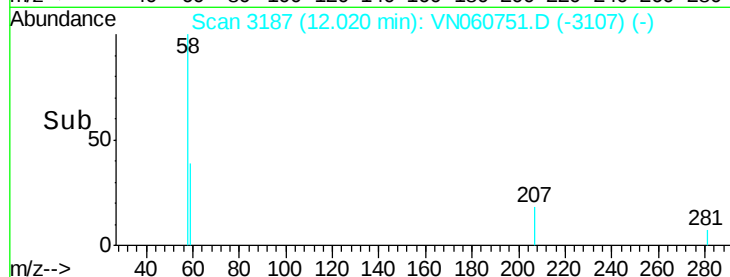
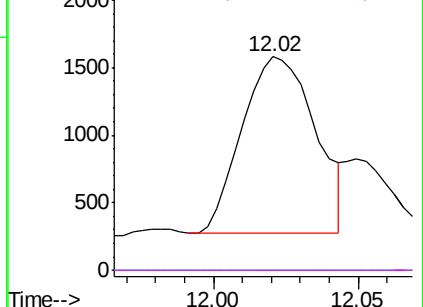


Abundance Ion 43.00 (42.70 to 43.70): VN060751.D (-3184) (-)

Ion 70.00 (69.70 to 70.70): VN060751.D (-3184) (-)

Ion 55.00 (54.70 to 55.70): VN060751.D (-3184) (-)

Ion 61.00 (60.70 to 61.70): VN060751.D (-3184) (-)



#76

1,2,3-Trichloropropane

Concen: 25.303 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060751.D

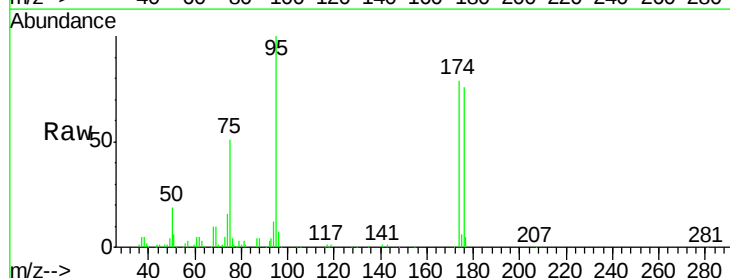
Acq: 27 Mar 2020 19:08

Tgt Ion: 75 Resp: 79151

Ion Ratio Lower Upper

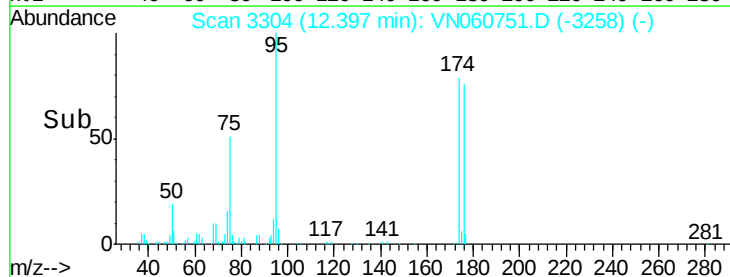
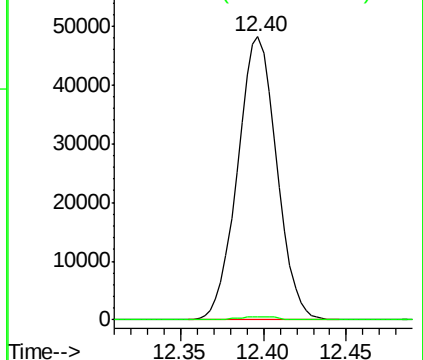
75 100

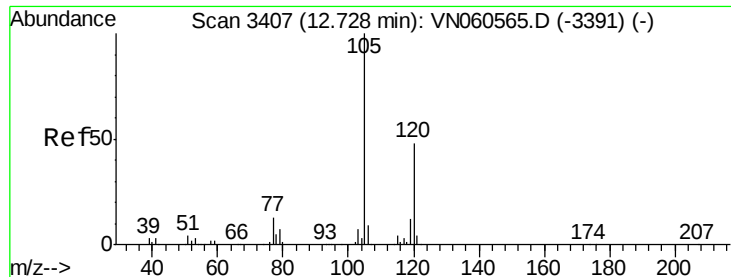
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN060751.D (-3304) (-)

Ion 77.00 (76.70 to 77.70): VN060751.D (-3304) (-)





#80

1,3,5-Trimethylbenzene

Concen: 0.808 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN060751.D

Acq: 27 Mar 2020 19:08

Instrument :

MSVOA_N

ClientSampleId :

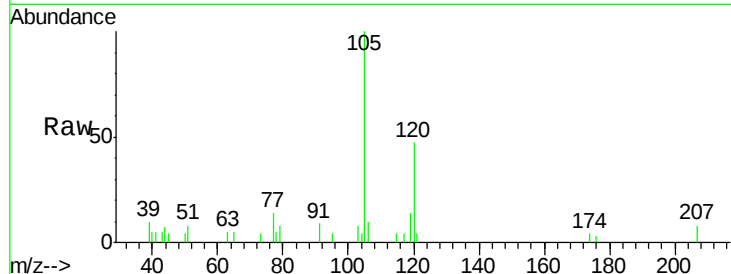
PB127814ZHE#16

Tgt Ion: 105 Resp: 7459

Ion Ratio Lower Upper

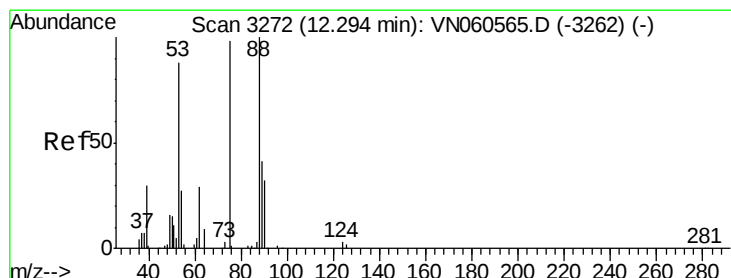
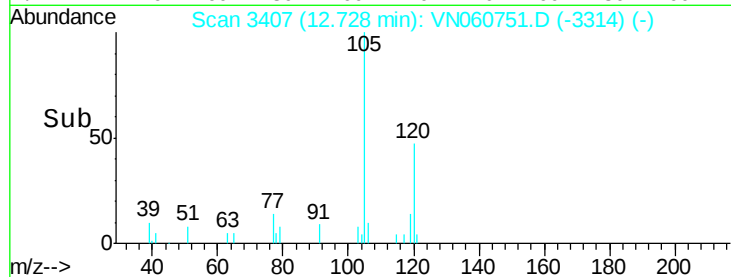
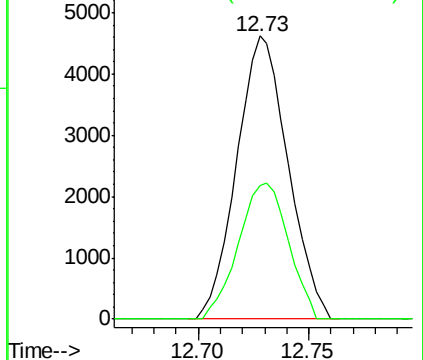
105 100

120 46.6 23.9 71.7



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: 64.985 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060751.D

Acq: 27 Mar 2020 19:08

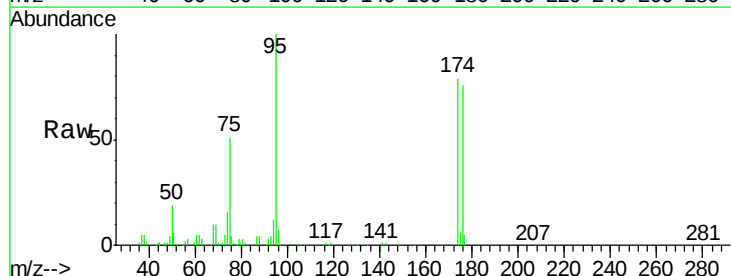
Tgt Ion: 75 Resp: 79151

Ion Ratio Lower Upper

75 100

53 0.0 73.0 109.4#

89 0.0 34.8 52.2#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 53.00 (52.70 to 53.70): VNO

Ion 88.90 (88.60 to 89.60): VNO

