

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN031220\
 Data File : VN060481.D
 Acq On : 12 Mar 2020 15:56
 Operator : JC/MD
 Sample : PB127465ZHE#03
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127465ZHE#03

Quant Time: Mar 13 02:05:35 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N022720W.M
 Quant Title : SW846 8260
 QLast Update : Thu Feb 27 13:52:50 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.64	168	193149	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	318952	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	296816	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	136701	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.00	65	125945	50.82	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.64%	
35) Dibromofluoromethane	7.57	113	95252	64.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	128.68%	
50) Toluene-d8	10.08	98	391147	52.20	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.40%	
62) 4-Bromofluorobenzene	12.40	95	145820	51.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.68%	

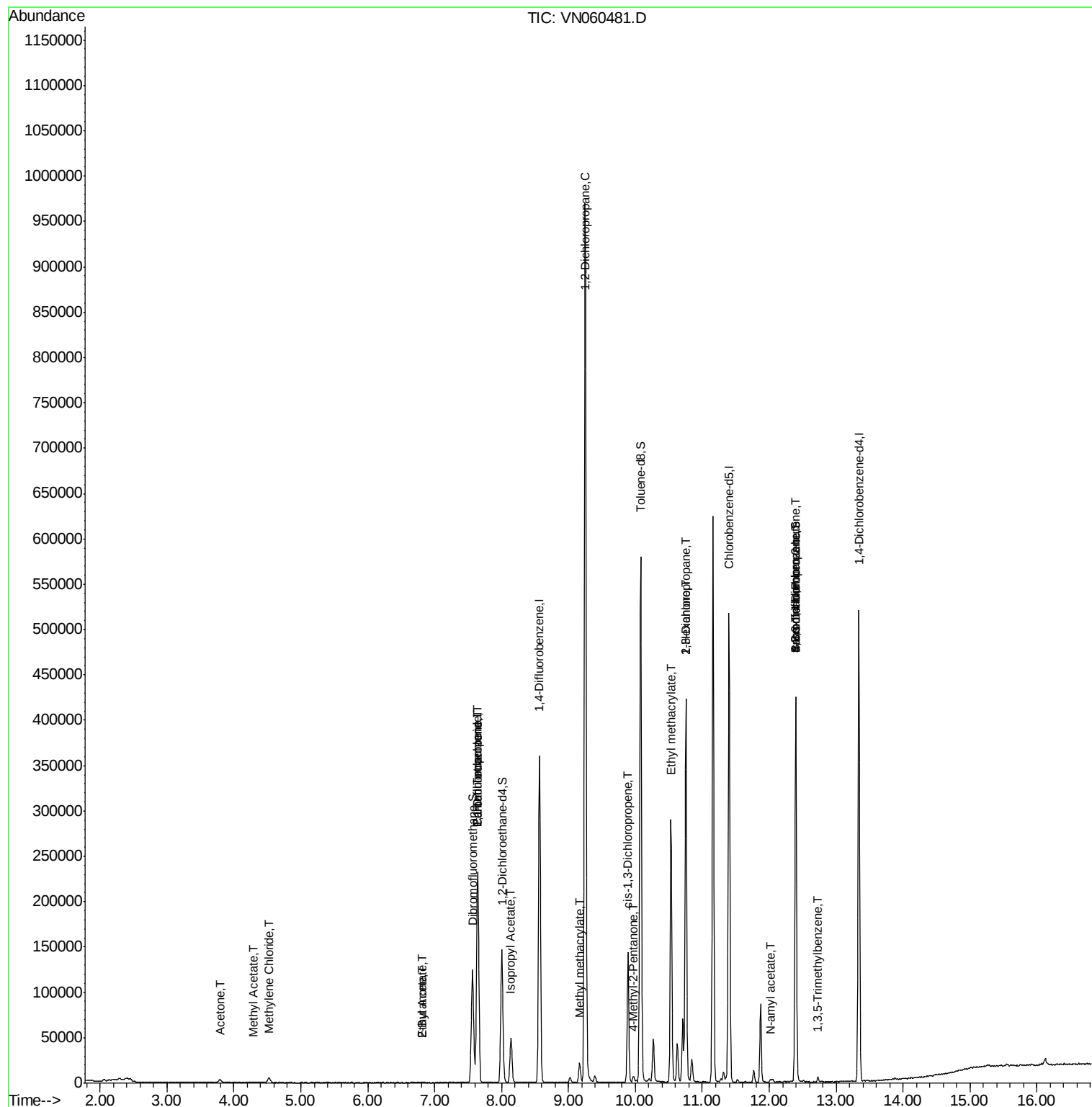
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.79	43	6754	8.44	ug/l	96
18) Methyl Acetate	4.29	43	631	0.24	ug/l #	52
20) Methylene Chloride	4.53	84	4130	1.88	ug/l	92
25) 2-Butanone	6.81	43	1251	0.97	ug/l #	49
31) Cyclohexane	7.64	56	4066	Below Cal	#	1
36) 1,1-Dichloropropene	7.64	75	15022	4.94	ug/l #	49
37) Ethyl Acetate	6.81	43	1251	0.43	ug/l #	68
38) Carbon Tetrachloride	7.64	117	18674	6.31	ug/l #	16
43) Isopropyl Acetate	8.14	43	58530	11.62	ug/l #	91
45) 1,2-Dichloropropane	9.25	63	1197	0.52	ug/l #	44
48) Methyl methacrylate	9.16	41	2893	1.26	ug/l #	13
51) 4-Methyl-2-Pentanone	9.97	43	4539	1.59	ug/l	89
54) cis-1,3-Dichloropropene	9.89	75	24797	6.40	ug/l #	59
56) Ethyl methacrylate	10.54	69	706	0.22	ug/l #	1
57) 1,3-Dichloropropane	10.75	76	4260	1.17	ug/l #	42
59) 2-Hexanone	10.75	43	61649	29.39	ug/l #	52
71) Bromoform	12.39	173	418	0.26	ug/l #	1
74) N-amyl acetate	12.02	43	2913	0.66	ug/l #	44
76) 1,2,3-Trichloropropane	12.40	75	73079	24.37	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	3111	0.36	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	73079	67.26	ug/l #	8

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.00 min

Lab File: VN060481.D

Acq: 12 Mar 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

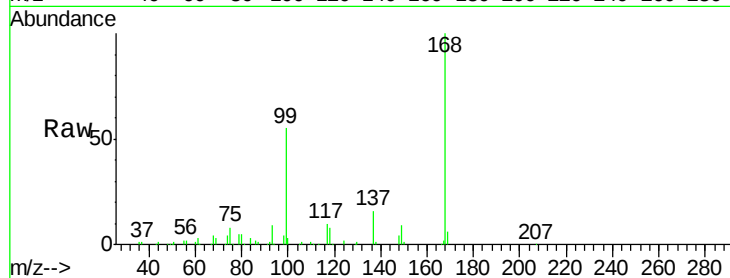
PB127465ZHE#03

Tgt Ion:168 Resp: 193149

Ion Ratio Lower Upper

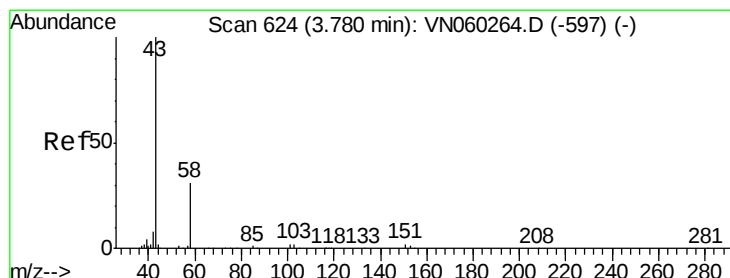
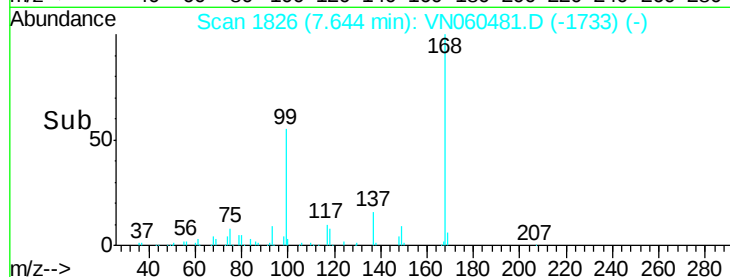
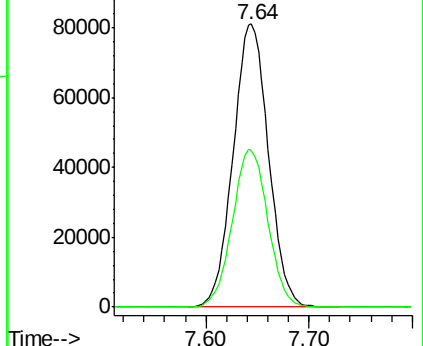
168 100

99 55.3 44.7 67.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0



#16

Acetone

Concen: 8.44 ug/l

RT: 3.79 min Scan# 628

Delta R.T. 0.01 min

Lab File: VN060481.D

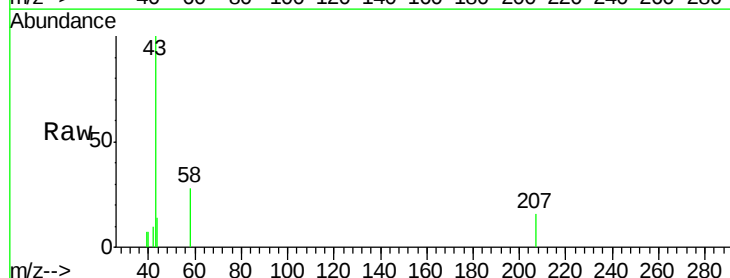
Acq: 12 Mar 2020 15:56

Tgt Ion: 43 Resp: 6754

Ion Ratio Lower Upper

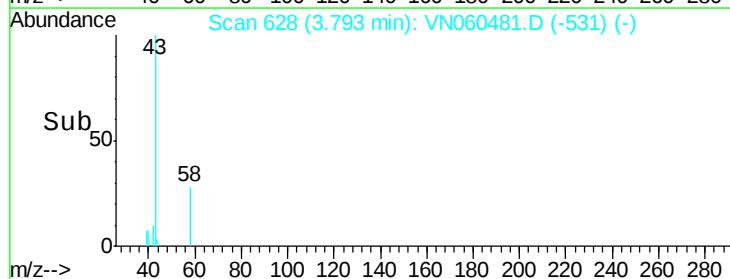
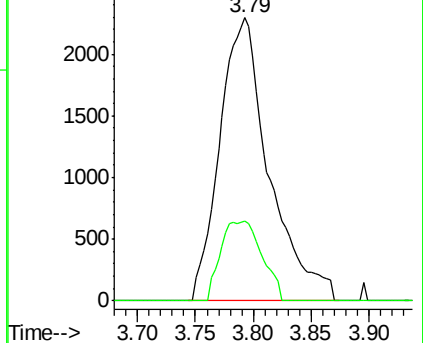
43 100

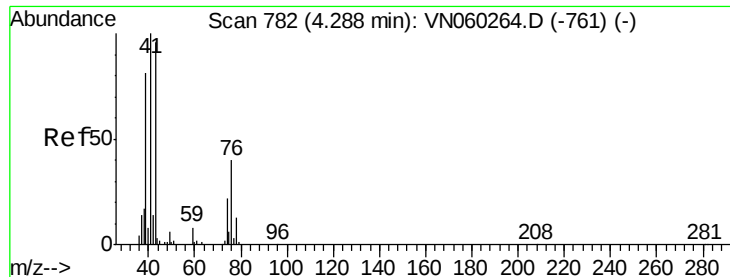
58 28.4 24.6 36.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

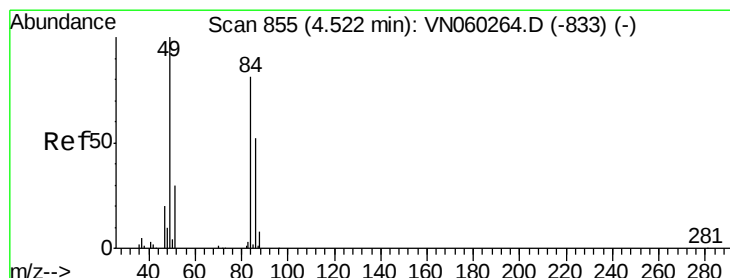
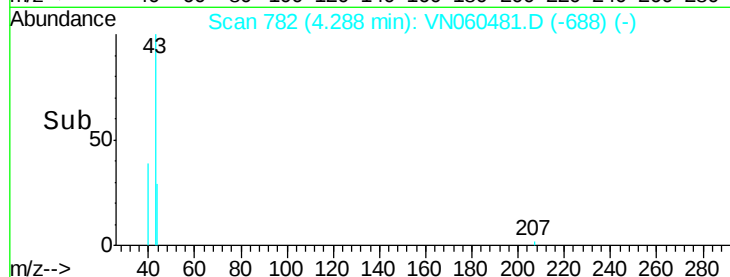
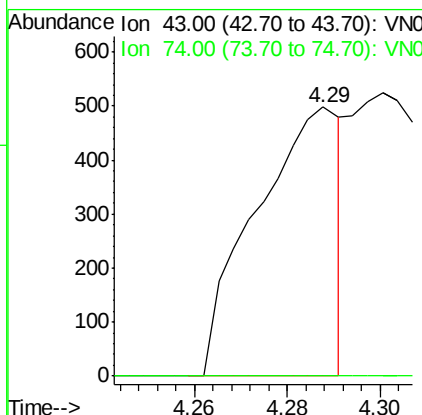
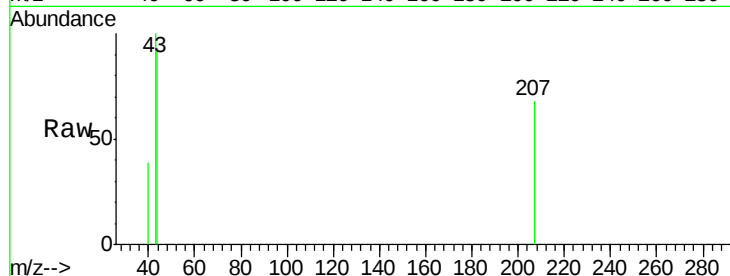




#18
Methyl Acetate
Concen: 0.24 ug/l
RT: 4.29 min Scan# 782
Delta R.T. 0.00 min
Lab File: VN060481.D
Acq: 12 Mar 2020 15:56

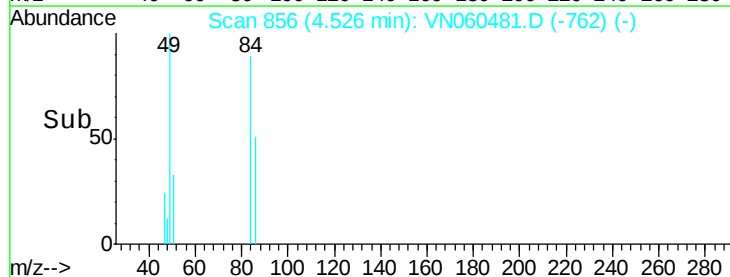
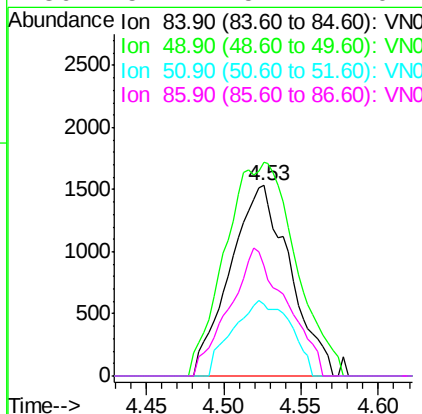
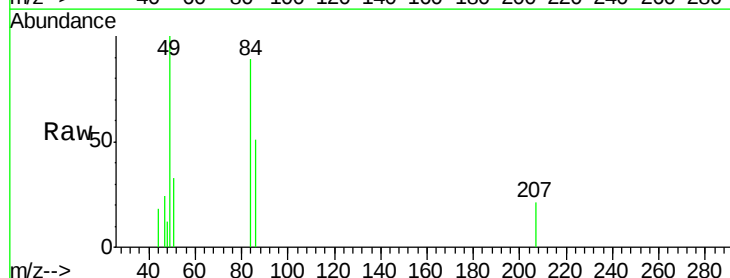
Instrument :
MSVOA_N
ClientSampleId :
PB127465ZHE#03

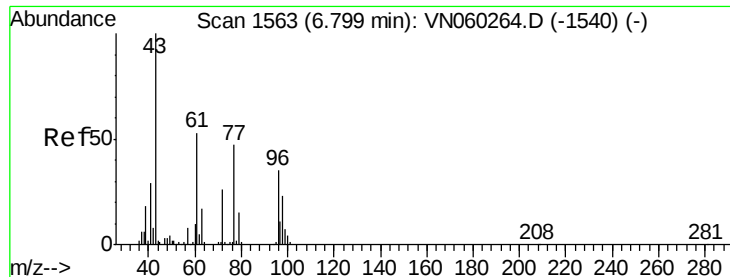
Tgt Ion: 43 Resp: 631
Ion Ratio Lower Upper
43 100
74 0.0 18.8 28.2#



#20
Methylene Chloride
Concen: 1.88 ug/l
RT: 4.53 min Scan# 856
Delta R.T. 0.00 min
Lab File: VN060481.D
Acq: 12 Mar 2020 15:56

Tgt Ion: 84 Resp: 4130
Ion Ratio Lower Upper
84 100
49 112.2 99.3 148.9
51 37.5 30.1 45.1
86 57.7 51.1 76.7

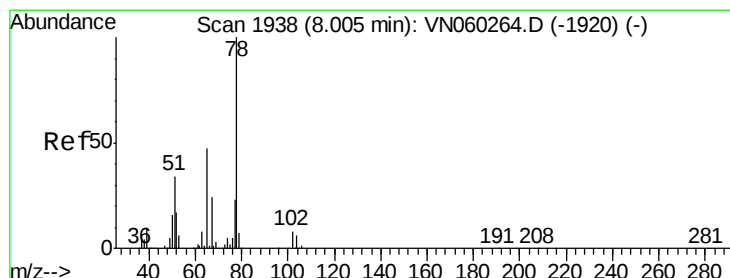
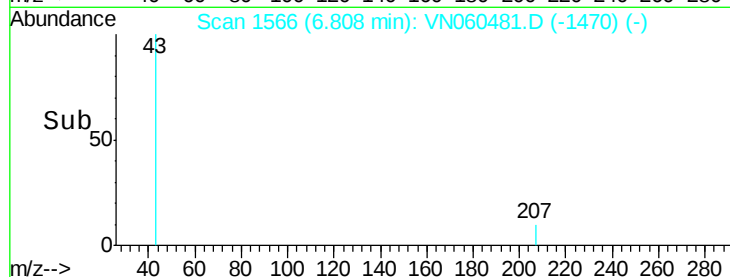
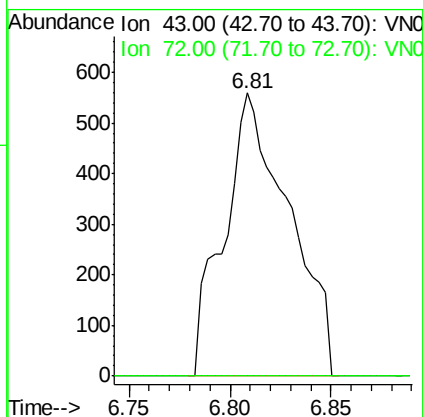
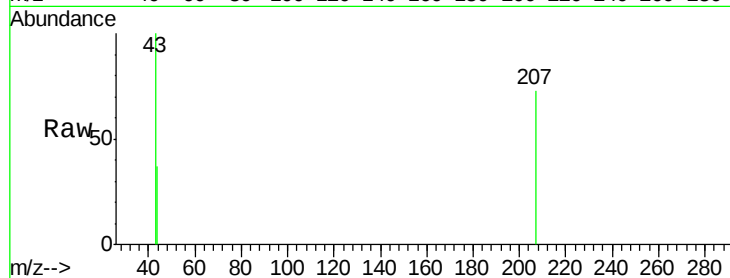




#25
 2-Butanone
 Concen: 0.97 ug/l
 RT: 6.81 min Scan# 1566
 Delta R.T. 0.01 min
 Lab File: VN060481.D
 Acq: 12 Mar 2020 15:56

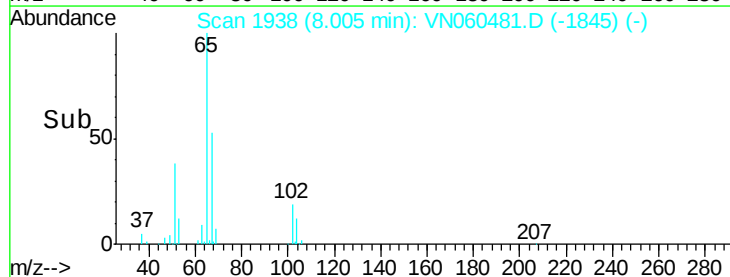
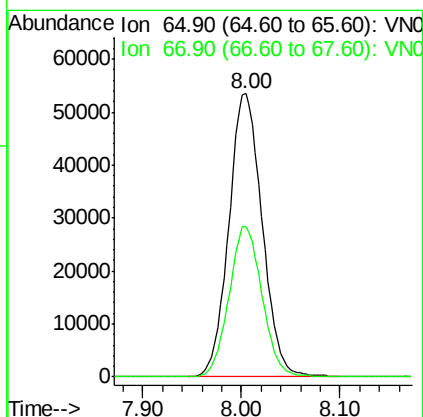
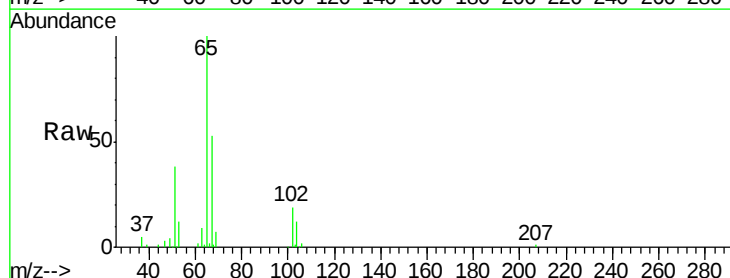
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127465ZHE#03

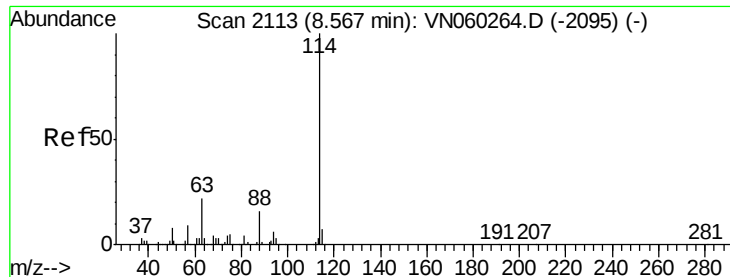
Tgt Ion: 43 Resp: 1251
 Ion Ratio Lower Upper
 43 100
 72 0.0 20.9 31.3#



#33
 1,2-Dichloroethane-d4
 Concen: 50.82 ug/l
 RT: 8.00 min Scan# 1938
 Delta R.T. 0.00 min
 Lab File: VN060481.D
 Acq: 12 Mar 2020 15:56

Tgt Ion: 65 Resp: 125945
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 103.8

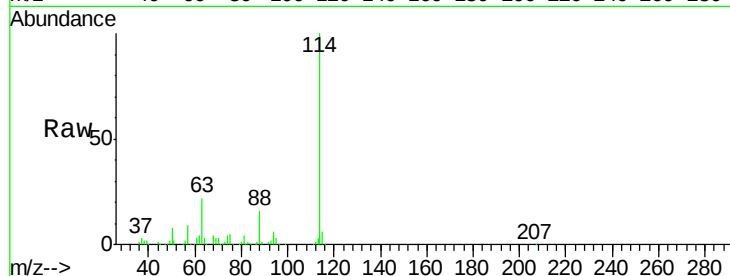




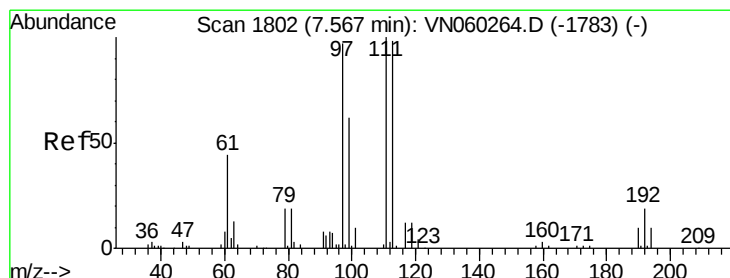
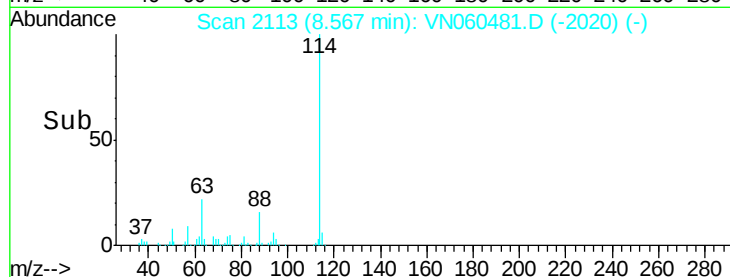
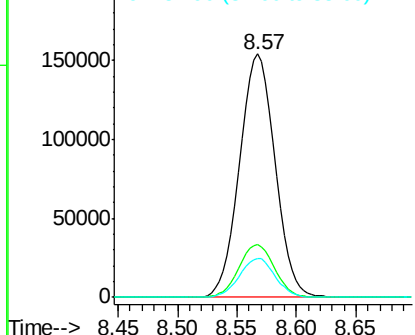
#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.57 min Scan# 2113
 Delta R.T. 0.00 min
 Lab File: VN060481.D
 Acq: 12 Mar 2020 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127465ZHE#03

Tgt Ion	Ratio	Lower	Upper
114	100		
63	21.8	0.0	43.2
88	16.0	0.0	31.6

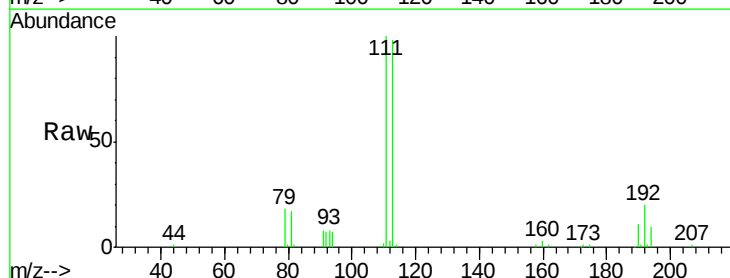


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): V
 Ion 87.90 (87.60 to 88.60): V

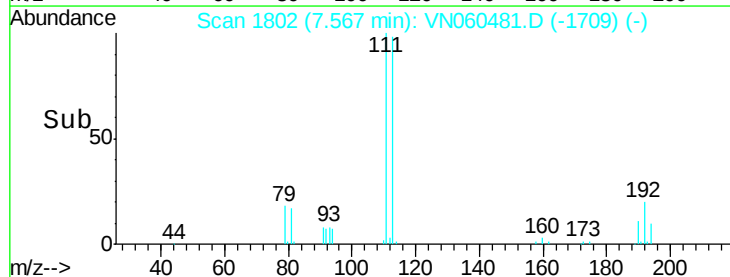
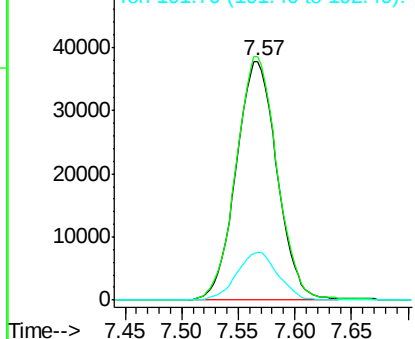


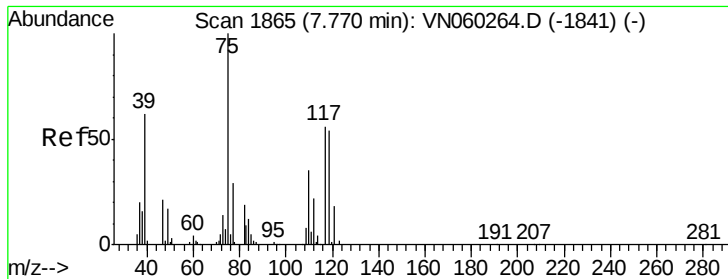
#35
 Dibromofluoromethane
 Concen: 64.34 ug/l
 RT: 7.57 min Scan# 1802
 Delta R.T. 0.00 min
 Lab File: VN060481.D
 Acq: 12 Mar 2020 15:56

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.4	123.6
192	20.1	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: VN060481.D

Acq: 12 Mar 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

PB127465ZHE#03

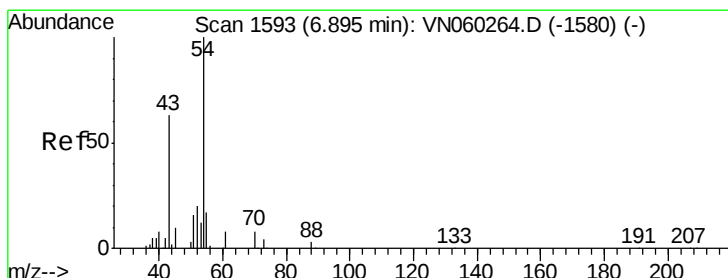
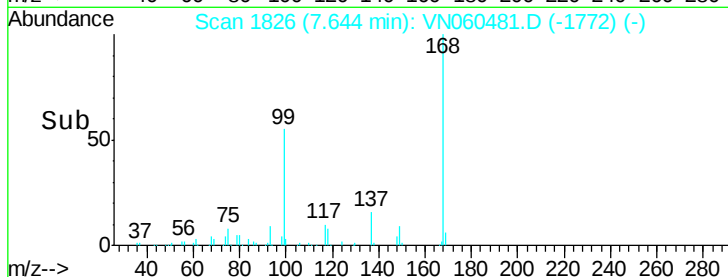
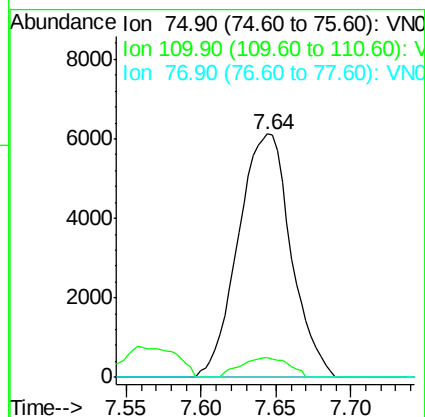
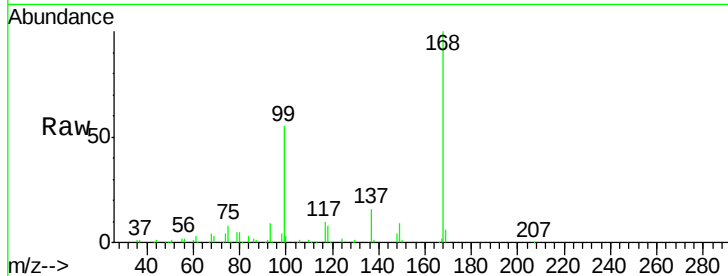
Tgt Ion: 75 Resp: 15022

Ion Ratio Lower Upper

75 100

110 7.4 17.3 52.0#

77 0.0 24.2 36.2#



#37

Ethyl Acetate

Concen: 0.43 ug/l

RT: 6.81 min Scan# 1566

Delta R.T. -0.09 min

Lab File: VN060481.D

Acq: 12 Mar 2020 15:56

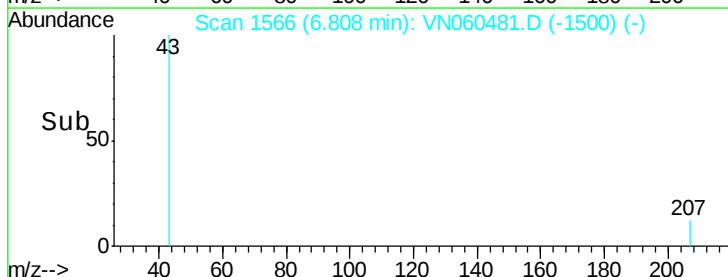
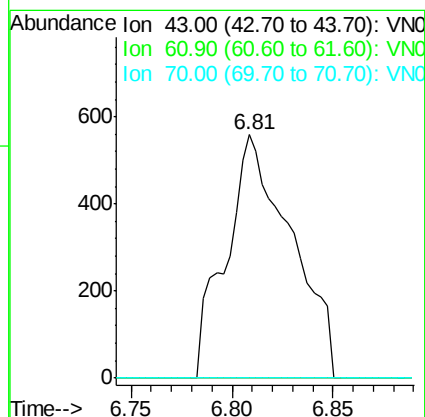
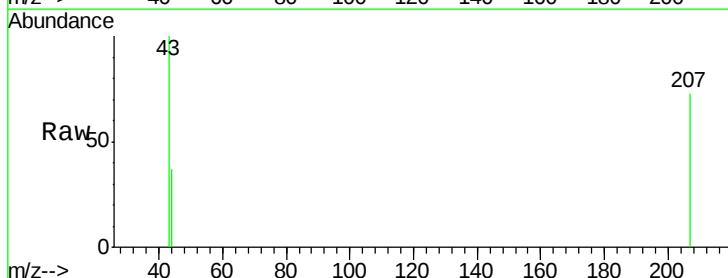
Tgt Ion: 43 Resp: 1251

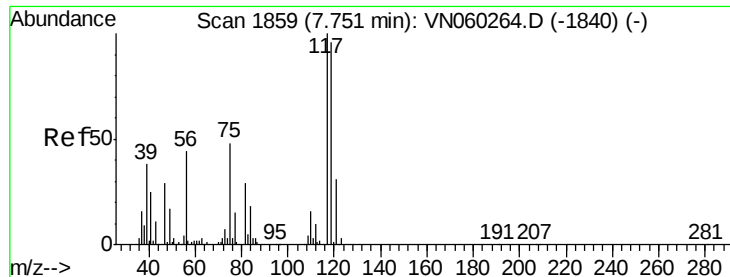
Ion Ratio Lower Upper

43 100

61 0.0 11.1 16.7#

70 0.0 8.4 12.6#





#38

Carbon Tetrachloride

Concen: 6.31 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. -0.11 min

Lab File: VN060481.D

Acq: 12 Mar 2020 15:56

Instrument :

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PB127465ZHE#03

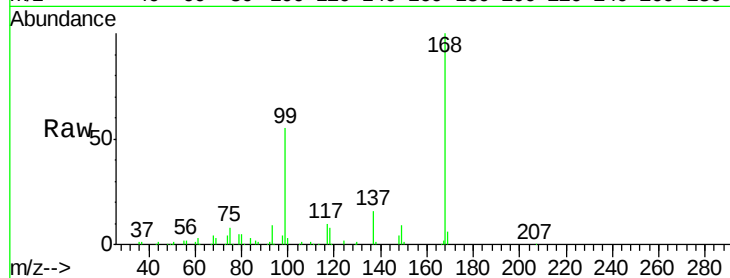
Tgt Ion:117 Resp: 18674

Ion Ratio Lower Upper

117 100

119 4.5 76.7 115.1#

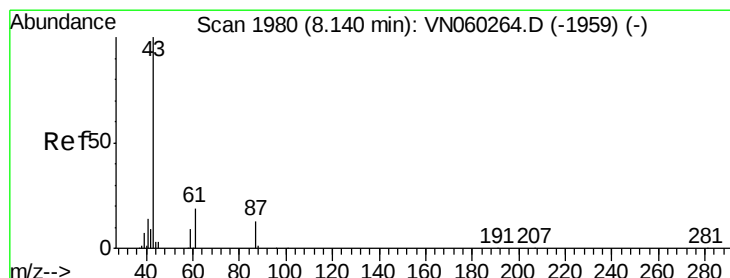
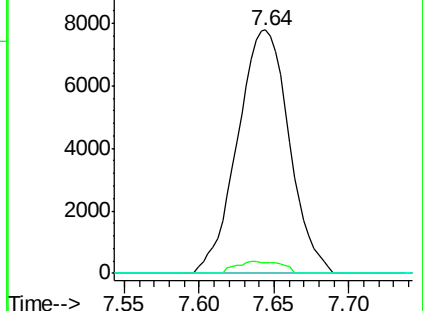
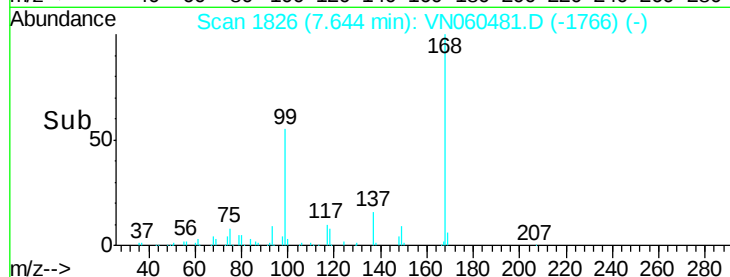
121 0.0 24.5 36.7#



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: 11.62 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. 0.00 min

Lab File: VN060481.D

Acq: 12 Mar 2020 15:56

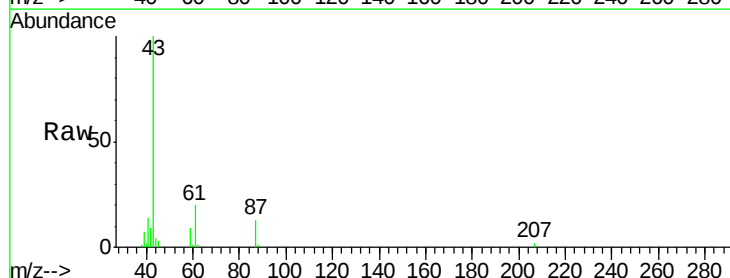
Tgt Ion: 43 Resp: 58530

Ion Ratio Lower Upper

43 100

61 19.3 20.9 31.3#

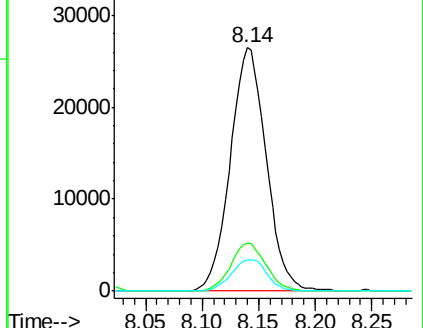
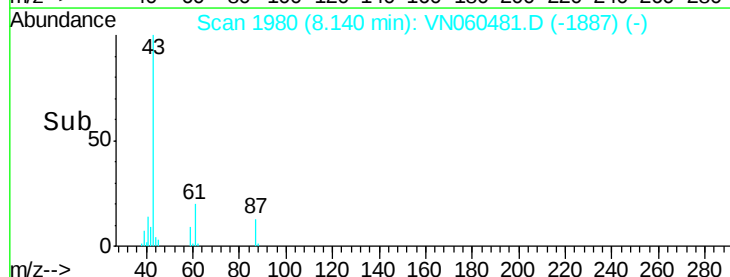
87 12.6 10.6 16.0

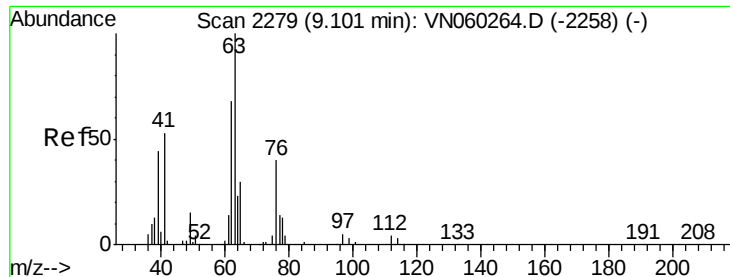


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V





#45

1,2-Dichloropropane

Concen: 0.52 ug/l

RT: 9.25 min Scan# 2325

Delta R.T. 0.15 min

Lab File: VN060481.D

Acq: 12 Mar 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

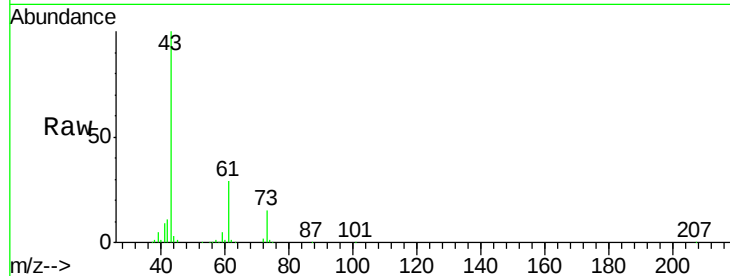
PB127465ZHE#03

Tgt Ion: 63 Resp: 1197

Ion Ratio Lower Upper

63 100

65 0.0 24.4 36.6#



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0

9.25

800

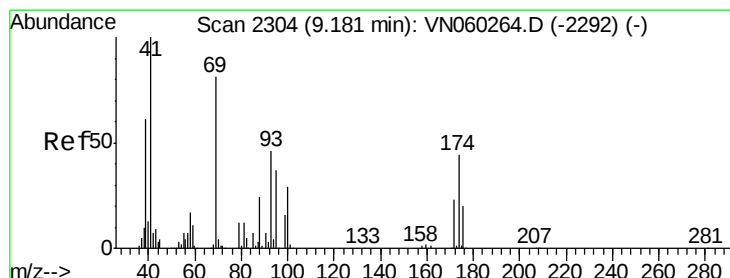
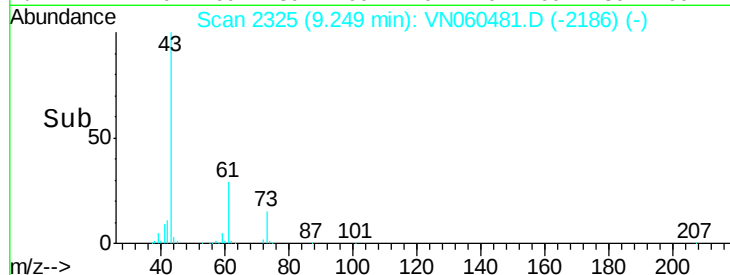
600

400

200

0

Time--> 9.20 9.25



#48

Methyl methacrylate

Concen: 1.26 ug/l

RT: 9.16 min Scan# 2298

Delta R.T. -0.02 min

Lab File: VN060481.D

Acq: 12 Mar 2020 15:56

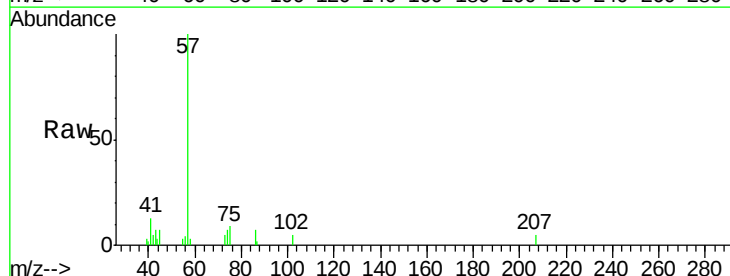
Tgt Ion: 41 Resp: 2893

Ion Ratio Lower Upper

41 100

69 0.0 66.7 100.1#

39 0.0 50.1 75.1#



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

40000

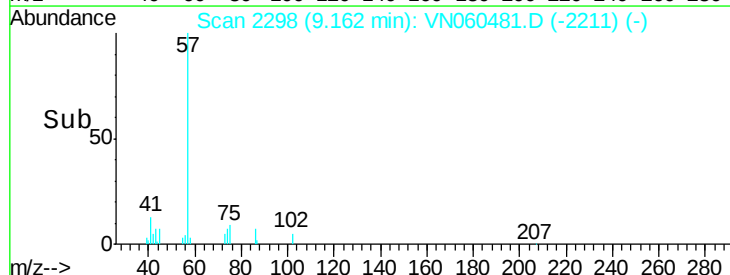
30000

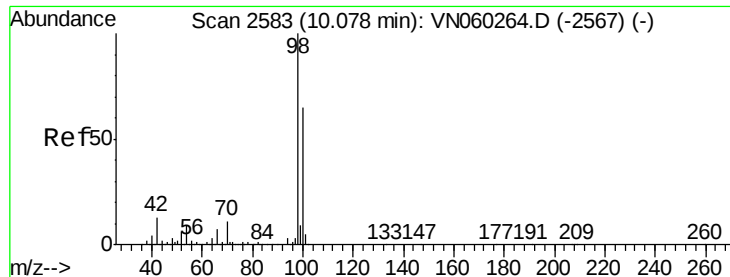
20000

10000

0

Time--> 9.10 9.15 9.20





#50

Toluene-d8

Concen: 52.20 ug/l

RT: 10.08 min Scan# 2583

Delta R.T. 0.00 min

Lab File: VN060481.D

Acq: 12 Mar 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

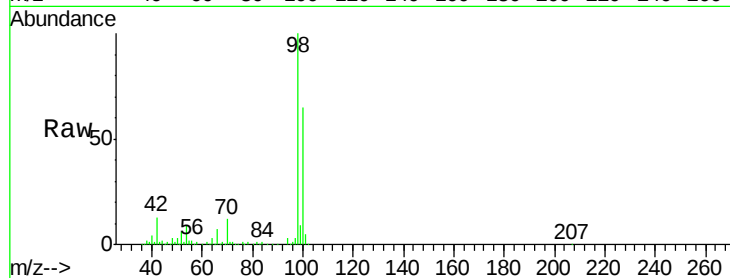
PB127465ZHE#03

Tgt Ion: 98 Resp: 391147

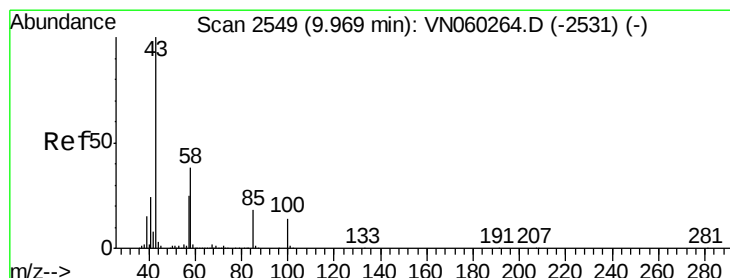
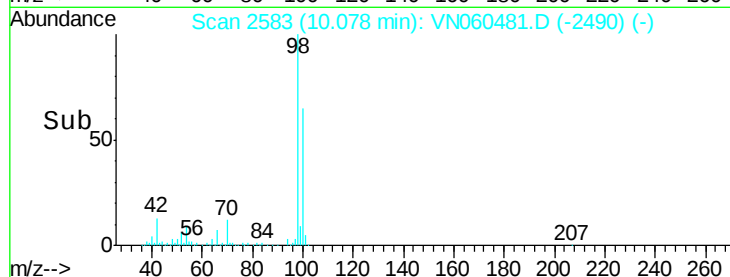
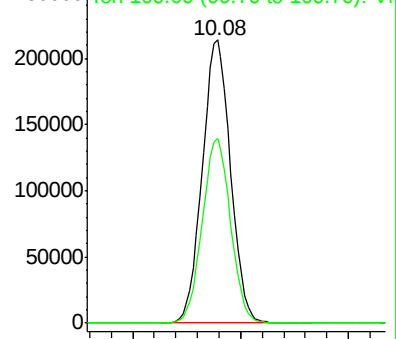
Ion Ratio Lower Upper

98 100

100 65.1 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VN060481.D (-2490) (-)



#51

4-Methyl-2-Pentanone

Concen: 1.59 ug/l

RT: 9.97 min Scan# 2550

Delta R.T. 0.00 min

Lab File: VN060481.D

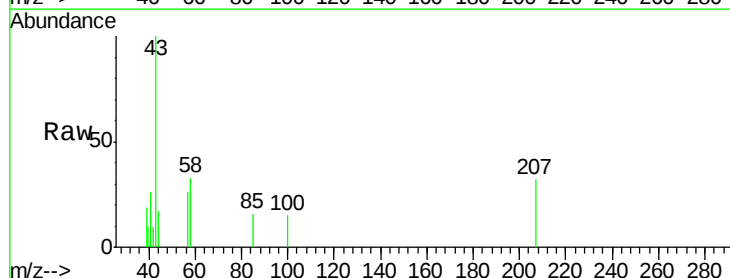
Acq: 12 Mar 2020 15:56

Tgt Ion: 43 Resp: 4539

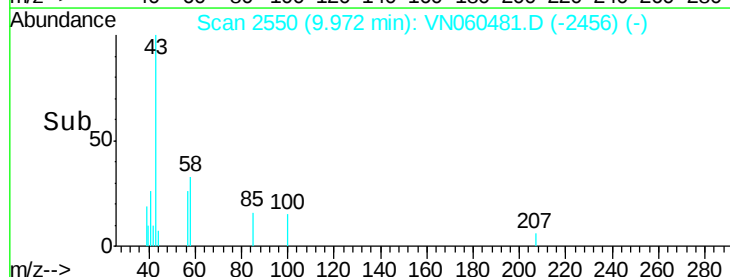
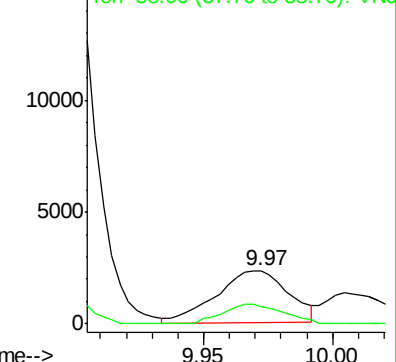
Ion Ratio Lower Upper

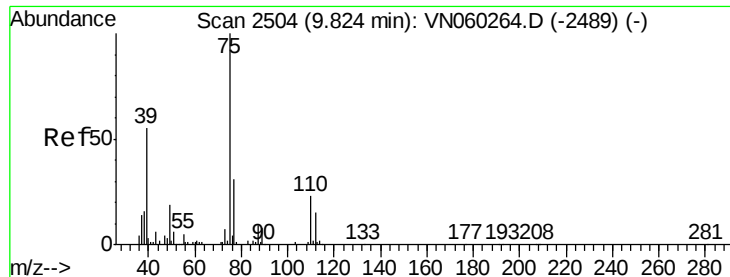
43 100

58 32.2 30.9 46.3



Abundance Ion 43.00 (42.70 to 43.70): VN060481.D (-2456) (-)





#54

cis-1,3-Dichloropropene

Concen: 6.40 ug/l

RT: 9.89 min Scan# 2524

Delta R.T. 0.06 min

Lab File: VN060481.D

Acq: 12 Mar 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

PB127465ZHE#03

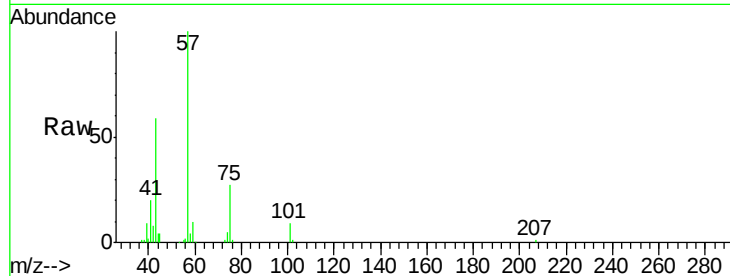
Tgt Ion: 75 Resp: 24797

Ion Ratio Lower Upper

75 100

77 0.0 24.8 37.2#

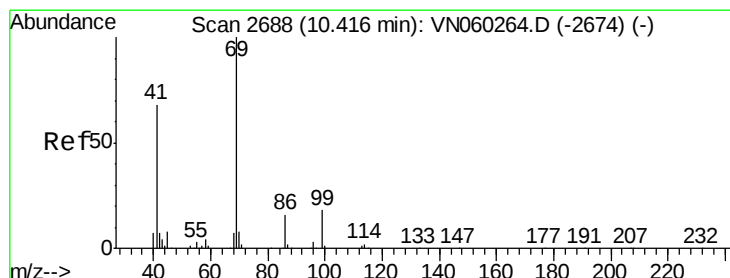
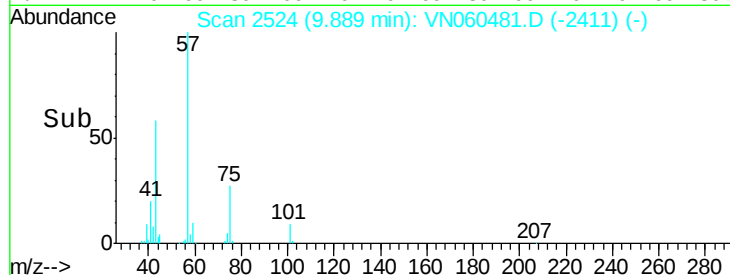
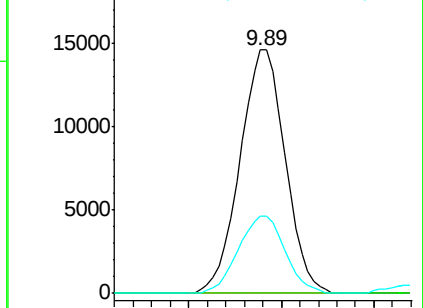
39 31.6 43.8 65.8#



Abundance Ion 74.90 (74.60 to 75.60): VN060264.D (-2489) (-)

Ion 76.90 (76.60 to 77.60): VN060264.D (-2489) (-)

Ion 39.00 (38.70 to 39.70): VN060264.D (-2489) (-)



#56

Ethyl methacrylate

Concen: 0.22 ug/l

RT: 10.54 min Scan# 2725

Delta R.T. 0.12 min

Lab File: VN060481.D

Acq: 12 Mar 2020 15:56

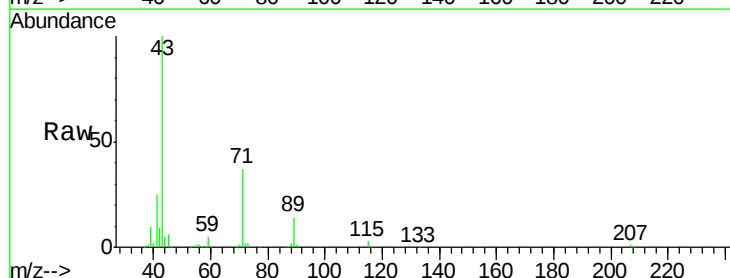
Tgt Ion: 69 Resp: 706

Ion Ratio Lower Upper

69 100

41 7601.0 54.1 81.1#

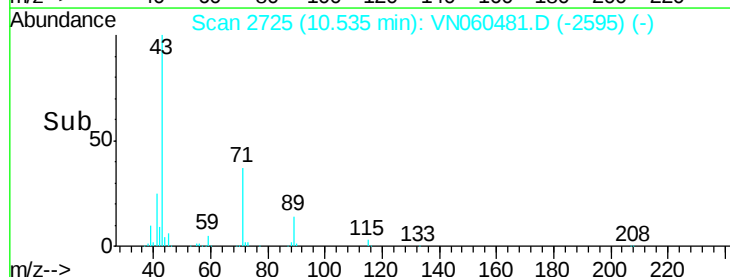
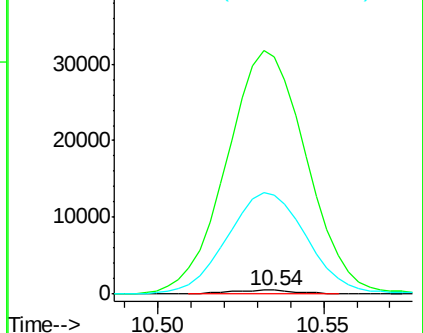
39 3165.9 32.5 48.7#

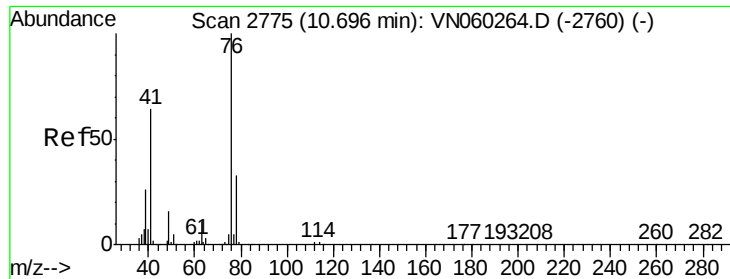


Abundance Ion 69.00 (68.70 to 69.70): VN060264.D (-2674) (-)

Ion 41.00 (40.70 to 41.70): VN060264.D (-2674) (-)

Ion 39.00 (38.70 to 39.70): VN060264.D (-2674) (-)





#57

1,3-Dichloropropane

Concen: 1.17 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060481.D

Acq: 12 Mar 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

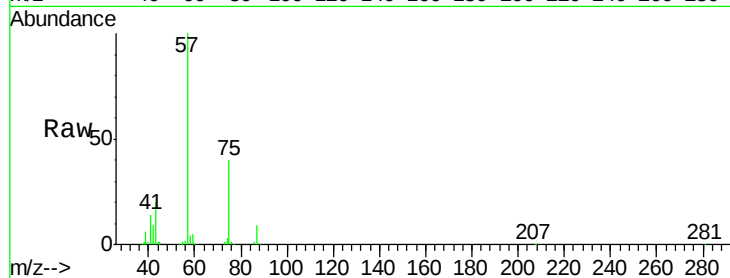
PB127465ZHE#03

Tgt Ion: 76 Resp: 4260

Ion Ratio Lower Upper

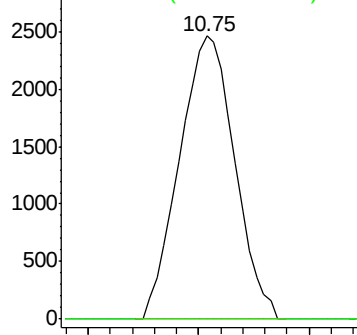
76 100

78 0.0 26.2 39.2#

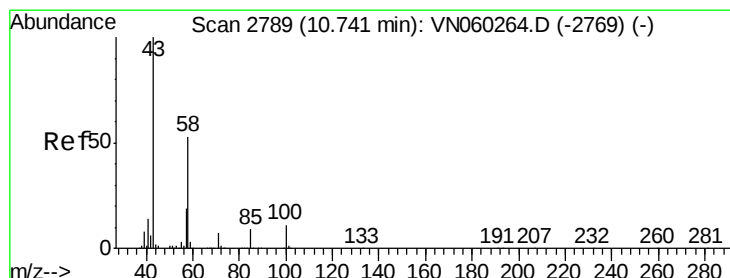
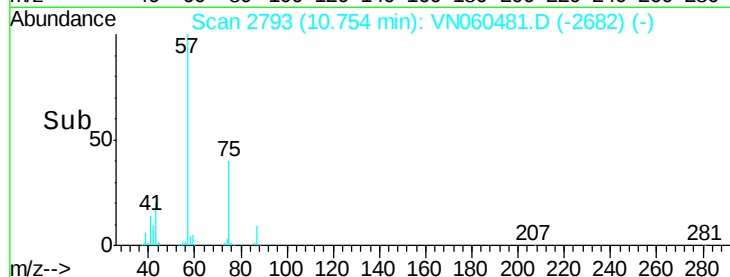


Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



Time-->



#59

2-Hexanone

Concen: 29.39 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060481.D

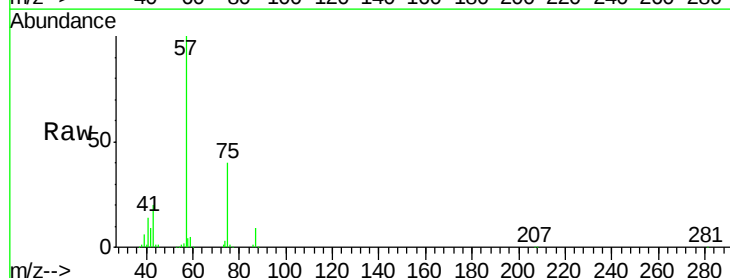
Acq: 12 Mar 2020 15:56

Tgt Ion: 43 Resp: 61649

Ion Ratio Lower Upper

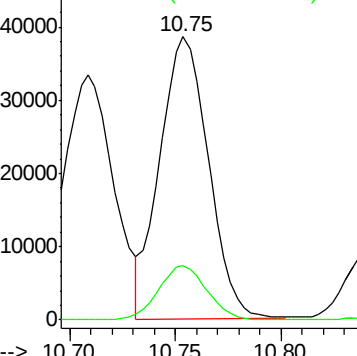
43 100

58 19.1 26.5 79.5#

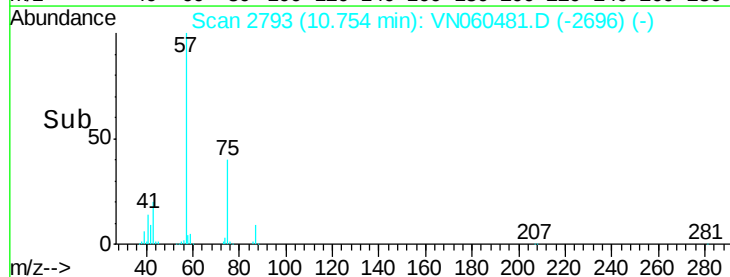


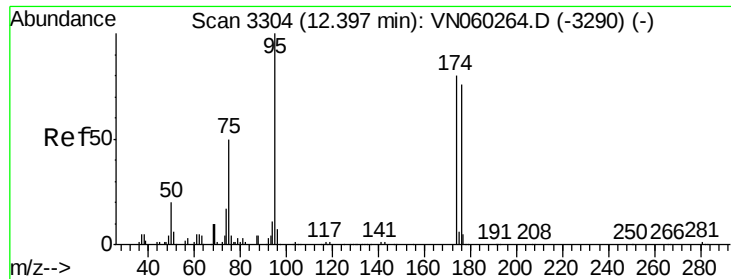
Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



Time-->

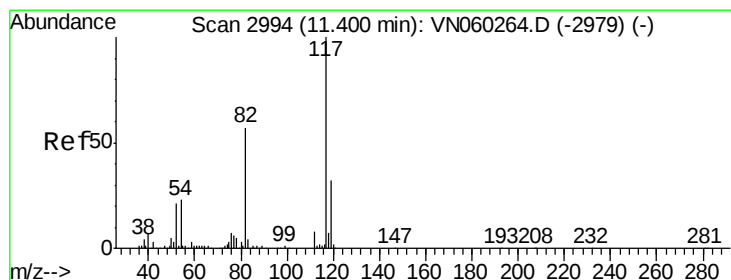
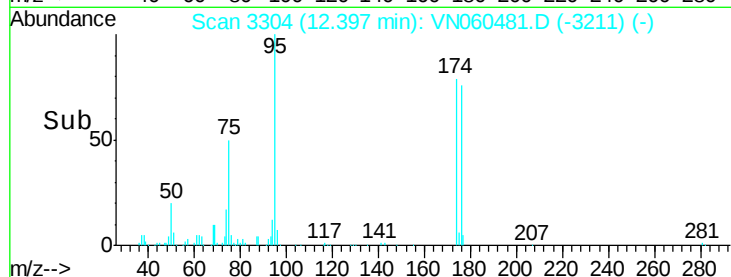
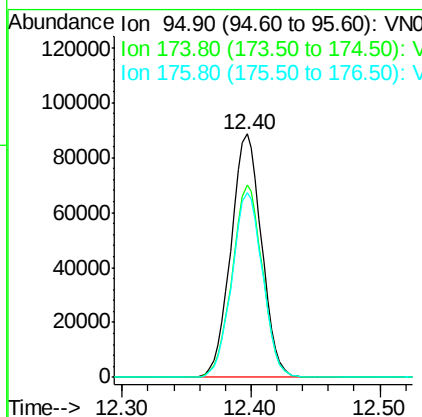
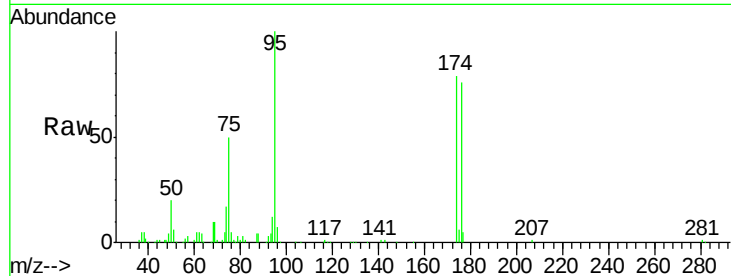




#62
4-Bromofluorobenzene
Concen: 51.34 ug/l
RT: 12.40 min Scan# 3304
Delta R.T. 0.00 min
Lab File: VN060481.D
Acq: 12 Mar 2020 15:56

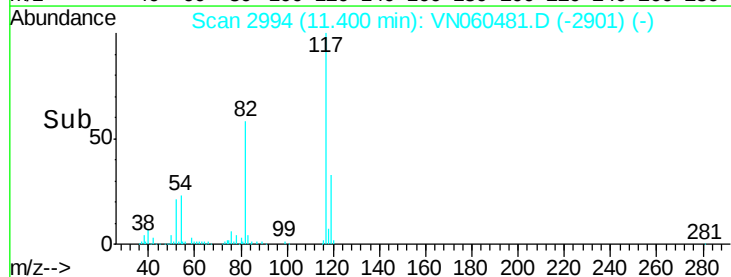
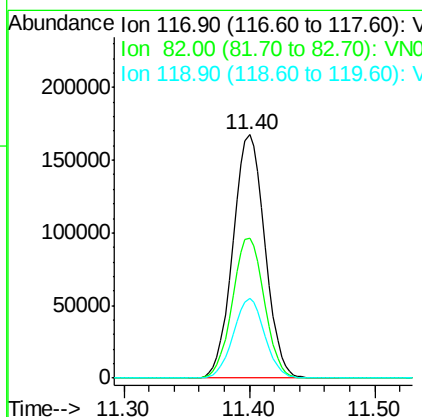
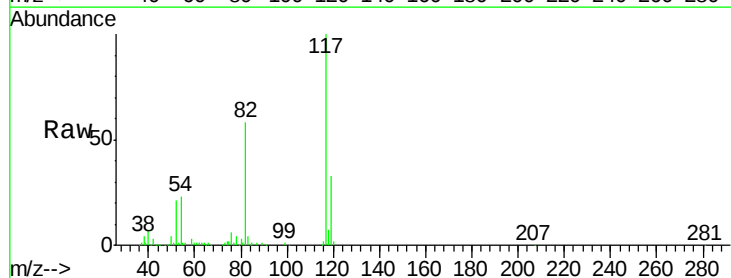
Instrument :
MSVOA_N
ClientSampleId :
PB127465ZHE#03

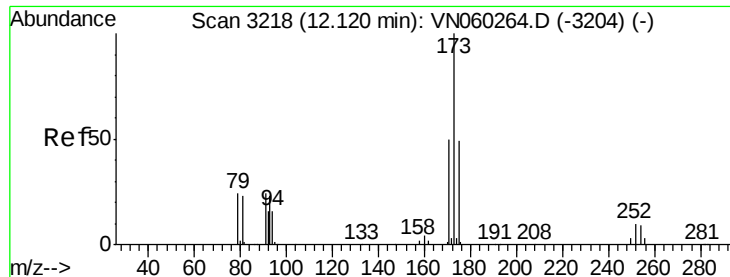
Tgt Ion: 95 Resp: 145820
Ion Ratio Lower Upper
95 100
174 78.5 0.0 159.2
176 76.3 0.0 153.8



#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.40 min Scan# 2994
Delta R.T. 0.00 min
Lab File: VN060481.D
Acq: 12 Mar 2020 15:56

Tgt Ion: 117 Resp: 296816
Ion Ratio Lower Upper
117 100
82 57.6 45.8 68.6
119 32.6 25.8 38.8





#71

Bromoform

Concen: 0.26 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. 0.27 min

Lab File: VN060481.D

Acq: 12 Mar 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

PB127465ZHE#03

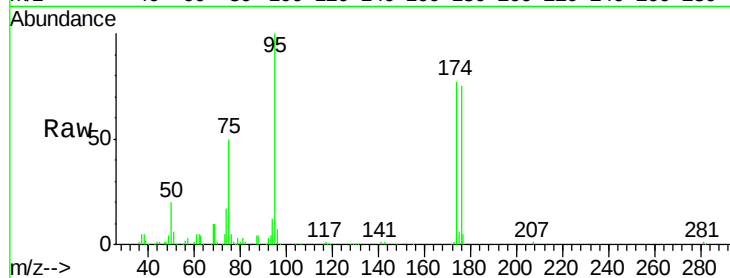
Tgt Ion:173 Resp: 418

Ion Ratio Lower Upper

173 100

175 1772.5 24.1 72.2#

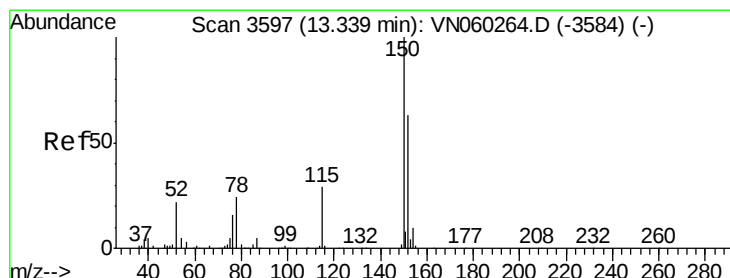
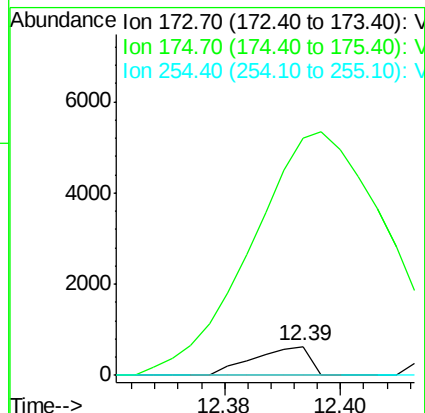
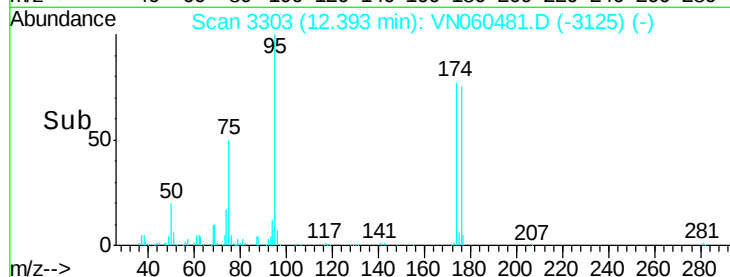
254 0.0 0.0 0.0



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: 50.00 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. 0.00 min

Lab File: VN060481.D

Acq: 12 Mar 2020 15:56

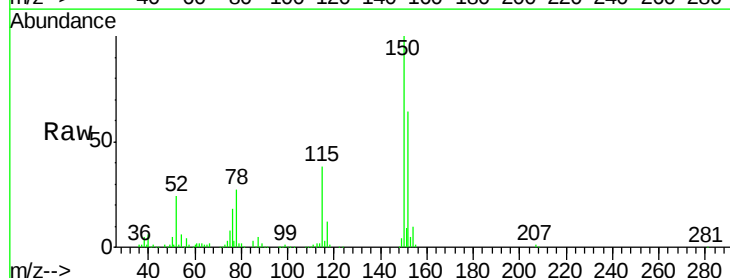
Tgt Ion:152 Resp: 136701

Ion Ratio Lower Upper

152 100

115 59.6 30.0 90.0

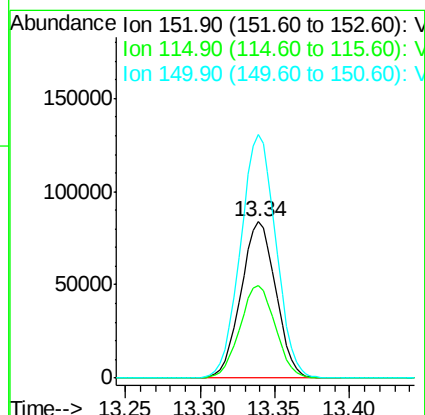
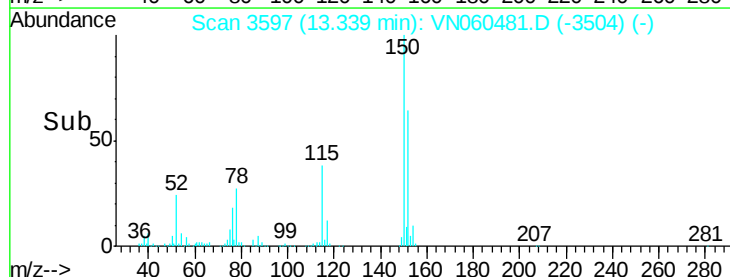
150 157.5 0.0 349.6

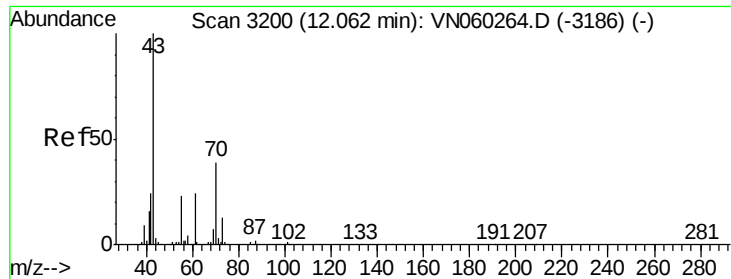


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-ethyl acetate

Concen: 0.66 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060481.D

Acq: 12 Mar 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

PB127465ZHE#03

Tgt Ion: 43 Resp: 2913

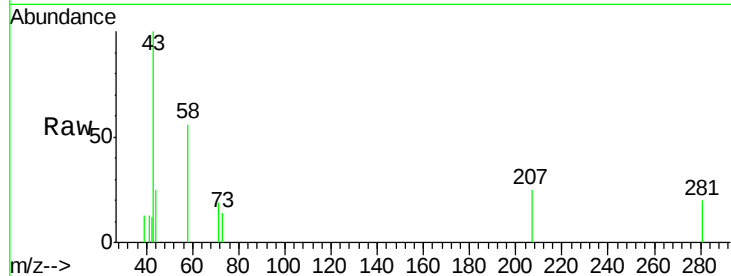
Ion Ratio Lower Upper

43 100

70 0.0 32.2 48.2#

55 0.0 18.2 27.4#

61 0.0 19.2 28.8#

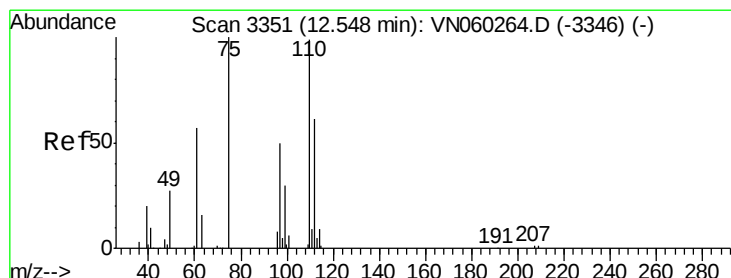
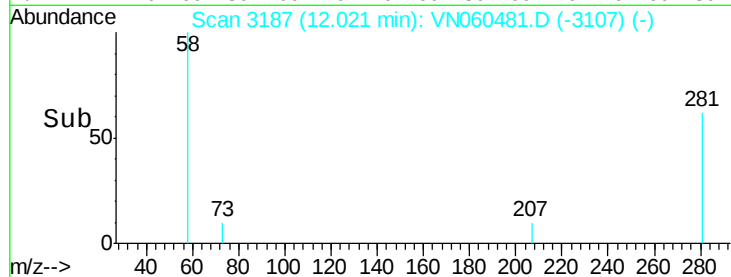
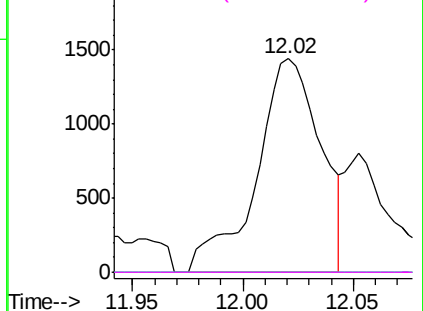


Abundance Ion 43.00 (42.70 to 43.70): VN0

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: 24.37 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060481.D

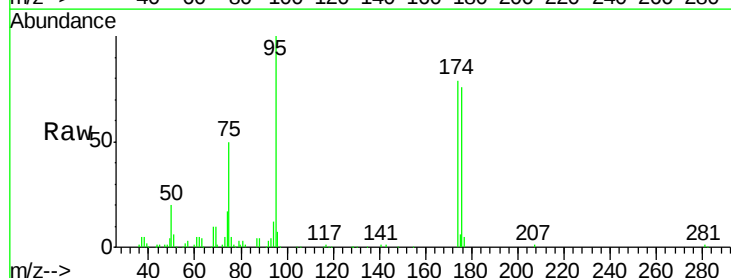
Acq: 12 Mar 2020 15:56

Tgt Ion: 75 Resp: 73079

Ion Ratio Lower Upper

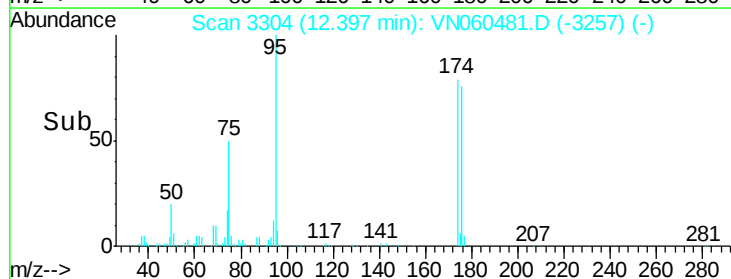
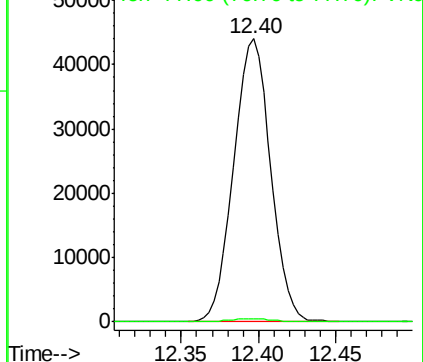
75 100

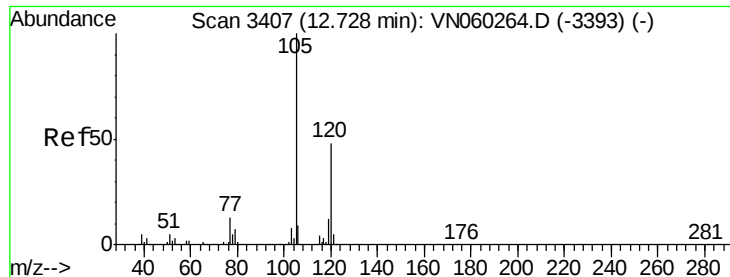
77 1.3 0.0 0.0#



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: 0.36 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. 0.00 min

Lab File: VN060481.D

Acq: 12 Mar 2020 15:56

Instrument :

MSVOA_N

ClientSampleId :

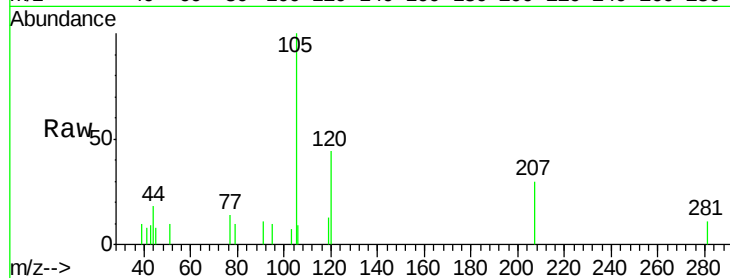
PB127465ZHE#03

Tgt Ion: 105 Resp: 3111

Ion Ratio Lower Upper

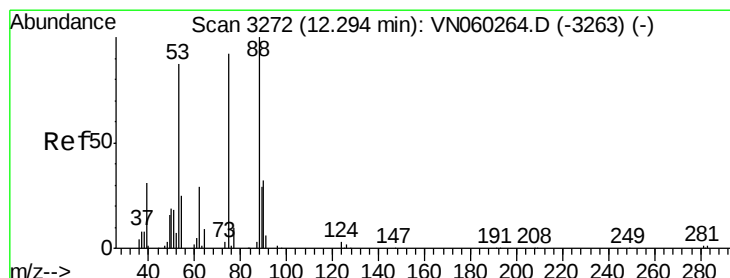
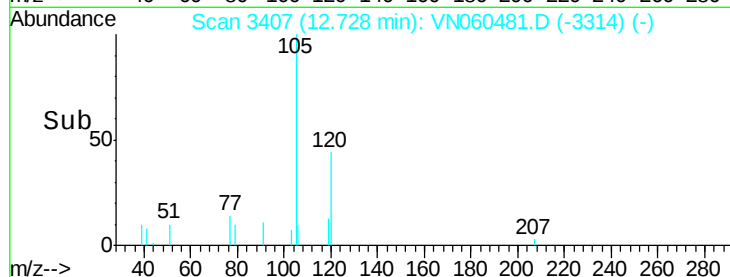
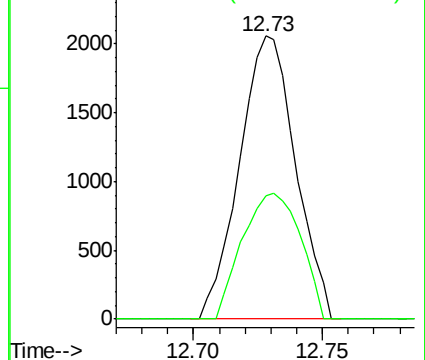
105 100

120 46.3 24.1 72.4



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: 67.26 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060481.D

Acq: 12 Mar 2020 15:56

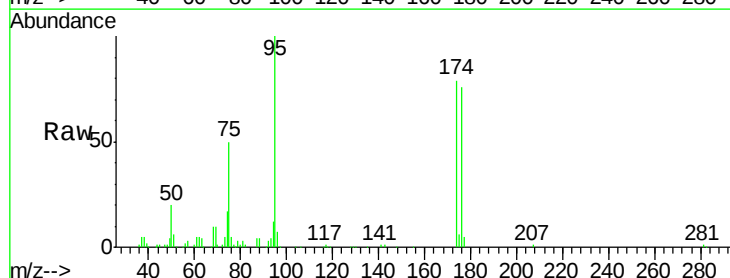
Tgt Ion: 75 Resp: 73079

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 57.1 85.7#



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

