

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN032720\
 Data File : VN060739.D
 Acq On : 27 Mar 2020 14:08
 Operator : JC/MD
 Sample : PB127814ZHE#04
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB127814ZHE#04

Quant Time: Mar 28 01:59:12 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	207122	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.57	114	346563	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.40	117	328186	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	148672	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.00	65	134067	47.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.30%	
35) Dibromofluoromethane	7.57	113	102697	49.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.02%	
50) Toluene-d8	10.08	98	430113	50.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.50%	
62) 4-Bromofluorobenzene	12.40	95	161679	51.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.08%	

Target Compounds

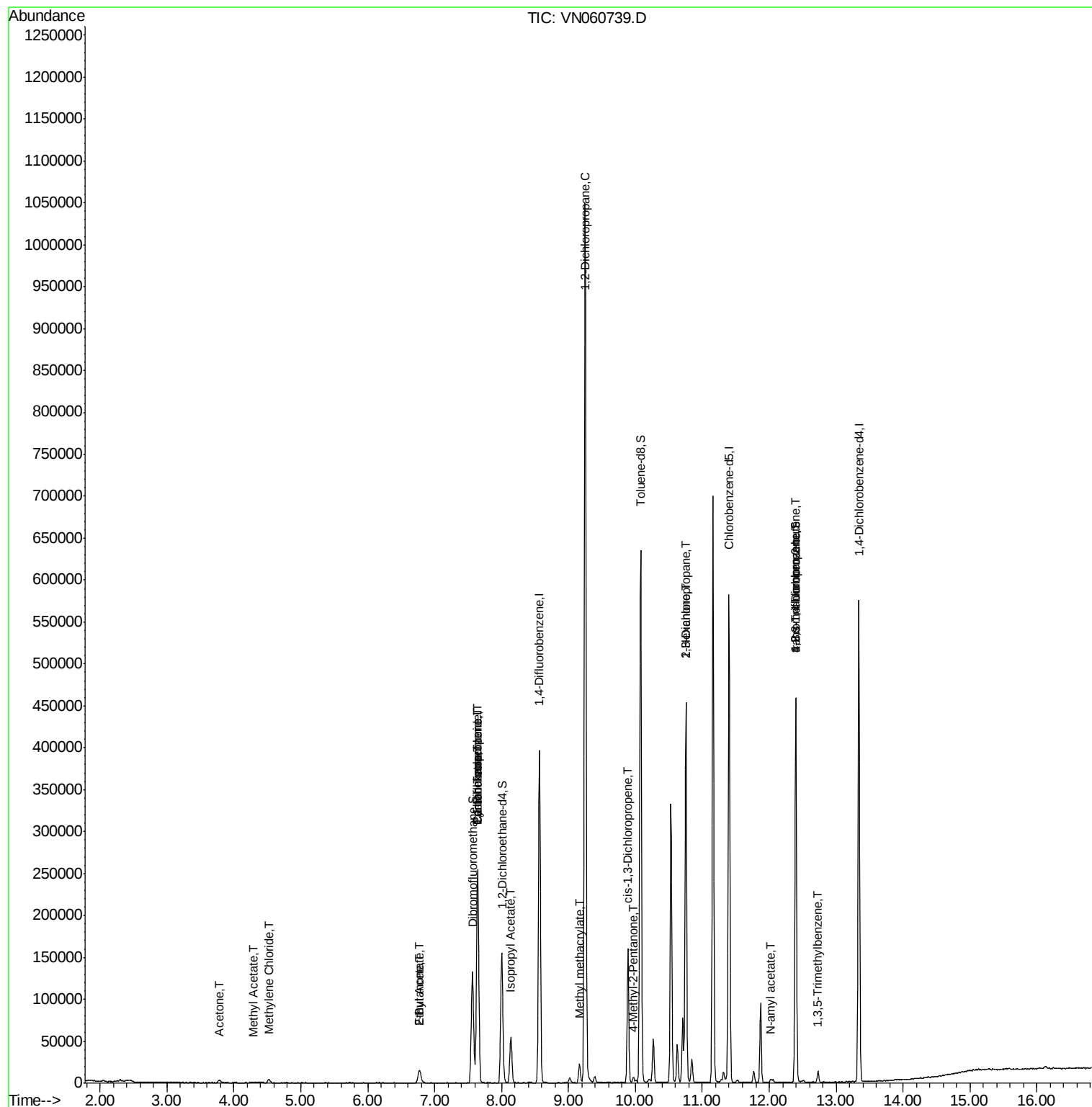
						Qvalue
16) Acetone	3.78	43	5299	5.261	ug/l	98
18) Methyl Acetate	4.30	43	1933	0.682	ug/l #	68
20) Methylene Chloride	4.52	84	3028	1.222	ug/l	95
25) 2-Butanone	6.78	43	1205	0.739	ug/l #	50
31) Cyclohexane	7.64	56	4191	0.915	ug/l #	1
36) 1,1-Dichloropropene	7.64	75	16190	4.824	ug/l #	50
37) Ethyl Acetate	6.78	43	1205	0.332	ug/l #	44
38) Carbon Tetrachloride	7.64	117	20268	6.739	ug/l #	16
43) Isopropyl Acetate	8.14	43	65256	10.912	ug/l #	91
45) 1,2-Dichloropropane	9.26	63	1160	0.434	ug/l #	43
48) Methyl methacrylate	9.16	41	3143	1.180	ug/l #	15
51) 4-Methyl-2-Pentanone	9.97	43	4892	1.438	ug/l	92
54) cis-1,3-Dichloropropene	9.89	75	27723	6.551	ug/l #	62
57) 1,3-Dichloropropane	10.75	76	4689	1.148	ug/l #	42
59) 2-Hexanone	10.75	43	67340	27.471	ug/l #	51
74) N-amyl acetate	12.02	43	2602	0.505	ug/l #	45
76) 1,2,3-Trichloropropane	12.40	75	81579	25.430	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.73	105	7874	0.832	ug/l	96
81) trans-1,4-Dichloro-2-buten	12.40	75	81579	65.311	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# 1826

Delta R.T. -0.00 min

Lab File: VN060739.D

Acq: 27 Mar 2020 14:08

Instrument :

MSVOA_N

ClientSampleId :

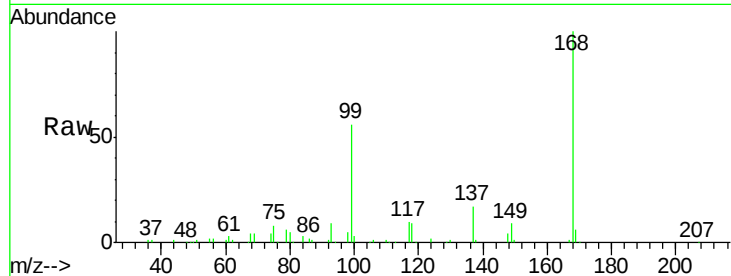
PB127814ZHE#04

Tgt Ion:168 Resp: 207122

Ion Ratio Lower Upper

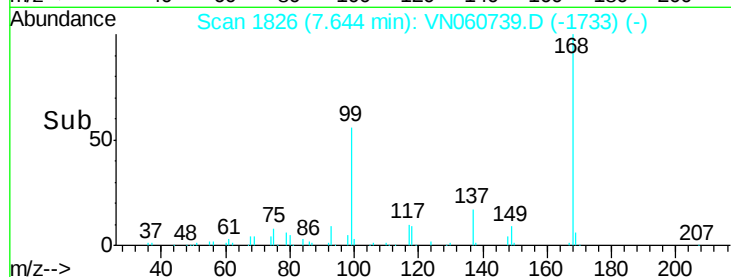
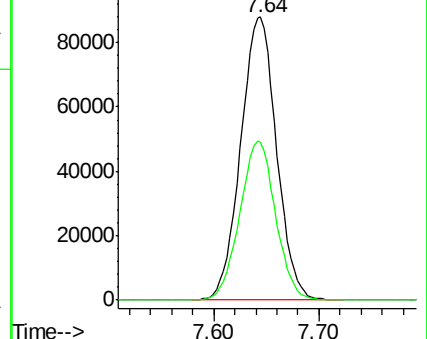
168 100

99 55.8 44.0 66.0



Abundance Ion 167.90 (167.60 to 168.60): VN060739.D (-1733) (-)

Ion 98.90 (98.60 to 99.60): VN060739.D (-1733) (-)



#16

Acetone

Concen: 5.261 ug/l

RT: 3.78 min Scan# 623

Delta R.T. -0.00 min

Lab File: VN060739.D

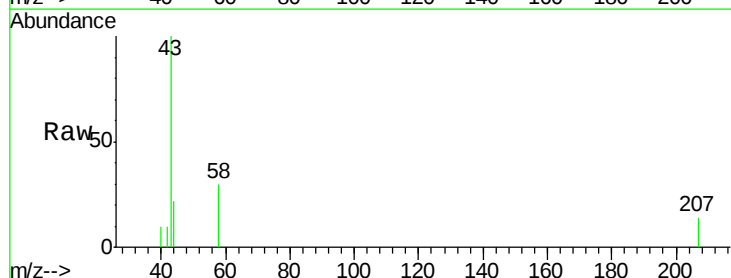
Acq: 27 Mar 2020 14:08

Tgt Ion: 43 Resp: 5299

Ion Ratio Lower Upper

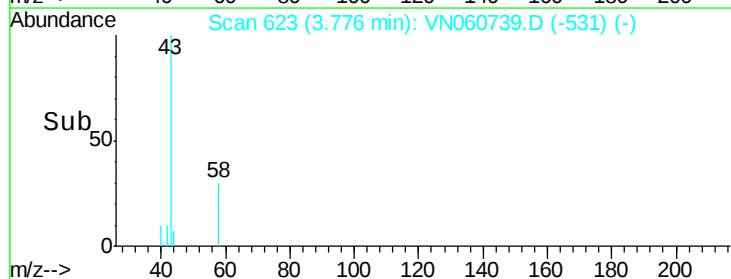
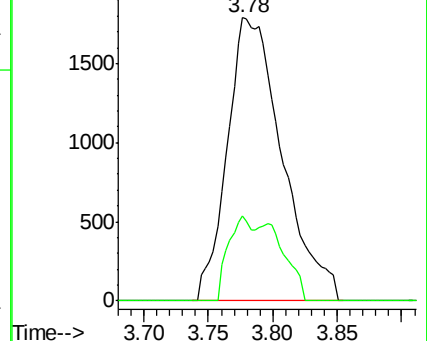
43 100

58 30.0 25.1 37.7



Abundance Ion 43.00 (42.70 to 43.70): VN060739.D (-531) (-)

Ion 58.00 (57.70 to 58.70): VN060739.D (-531) (-)

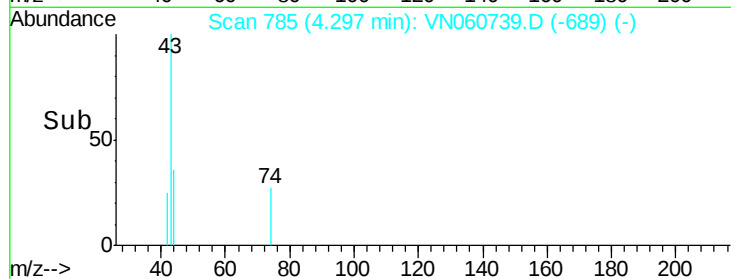
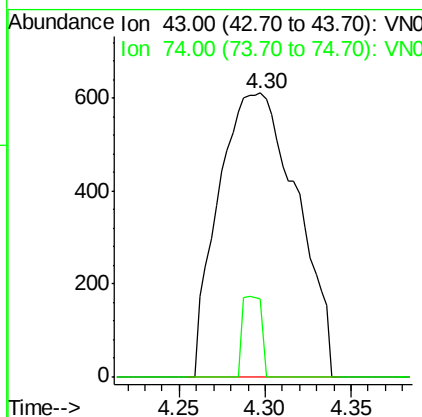
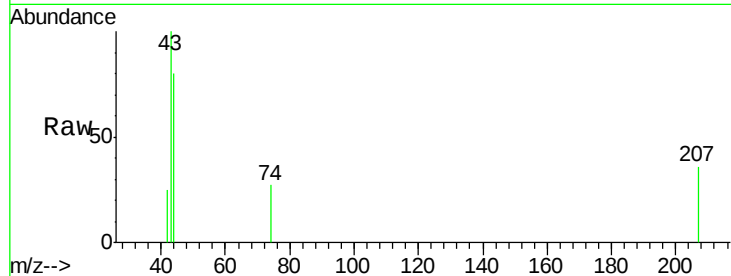




#18
Methyl Acetate
Concen: 0.682 ug/l
RT: 4.30 min Scan# 785
Delta R.T. 0.01 min
Lab File: VN060739.D
Acq: 27 Mar 2020 14:08

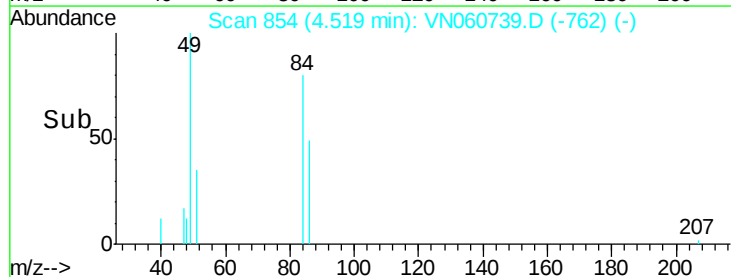
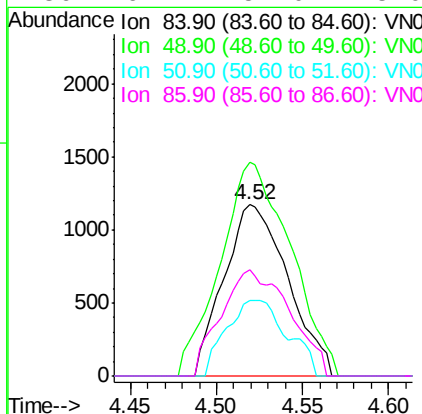
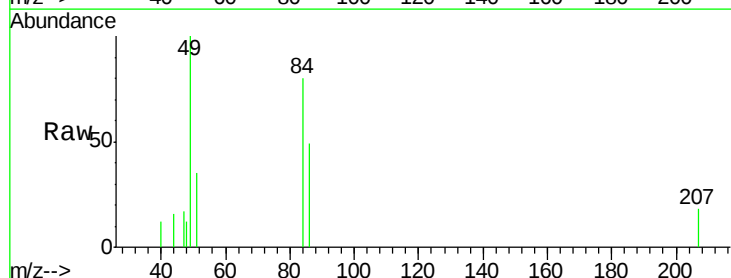
Instrument :
MSVOA_N
ClientSampleId :
PB127814ZHE#04

Tgt Ion: 43 Resp: 1933
Ion Ratio Lower Upper
43 100
74 6.8 17.5 26.3#



#20
Methylene Chloride
Concen: 1.222 ug/l
RT: 4.52 min Scan# 854
Delta R.T. -0.00 min
Lab File: VN060739.D
Acq: 27 Mar 2020 14:08

Tgt Ion: 84 Resp: 3028
Ion Ratio Lower Upper
84 100
49 124.9 103.3 154.9
51 44.3 31.6 47.4
86 61.7 52.0 78.0





#25

2-Butanone

Concen: 0.739 ug/l

RT: 6.78 min Scan# 1557

Delta R.T. -0.02 min

Lab File: VN060739.D

Acq: 27 Mar 2020 14:08

Instrument :

MSVOA_N

ClientSampleId :

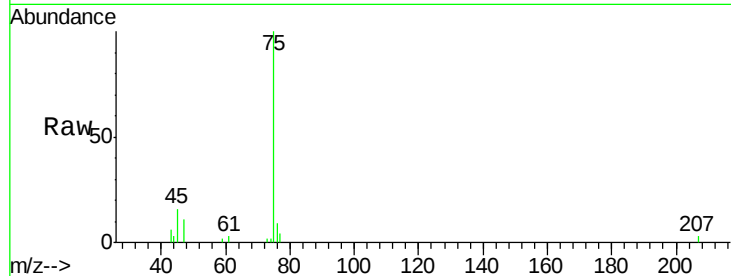
PB127814ZHE#04

Tgt Ion: 43 Resp: 1205

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

6.78

6.80

6.82

6.84

6.86

6.88

6.90

6.92

6.94

6.96

6.98

7.00

7.02

7.04

7.06

7.08

7.10

7.12

7.14

7.16

7.18

7.20

7.22

7.24

7.26

7.28

7.30

7.32

7.34

7.36

7.38

7.40

7.42

7.44

7.46

7.48

7.50

7.52

7.54

7.56

7.58

7.60

7.62

7.64

7.66

7.68

7.70

7.72

7.74

7.76

7.78

7.80

7.82

7.84

7.86

7.88

7.90

7.92

7.94

7.96

7.98

8.00

8.02

8.04

8.06

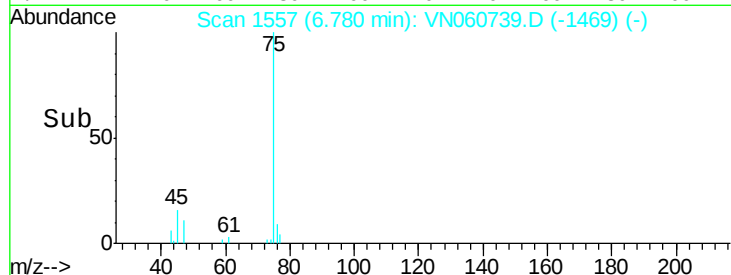
8.08

8.10

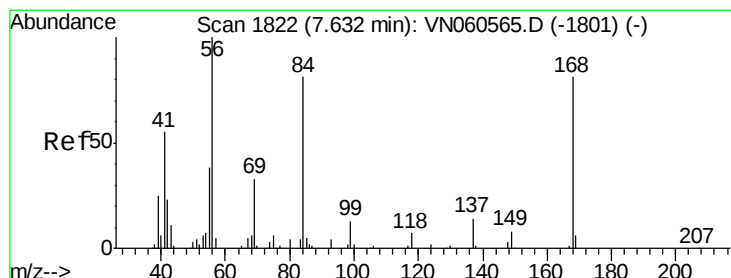
8.12

8.14

8.16



Time-->



#31

Cyclohexane

Concen: 0.915 ug/l

RT: 7.64 min Scan# 1826

Delta R.T. 0.01 min

Lab File: VN060739.D

Acq: 27 Mar 2020 14:08

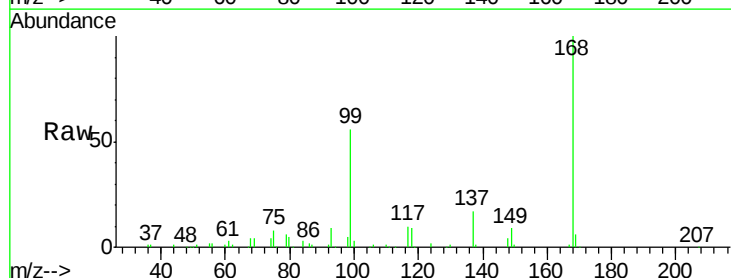
Tgt Ion: 56 Resp: 4191

Ion Ratio Lower Upper

56 100

69 183.0 26.6 40.0#

84 136.7 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

7.64

7.66

7.68

7.70

7.72

7.74

7.76

7.78

7.80

7.82

7.84

7.86

7.88

7.90

7.92

7.94

7.96

7.98

8.00

8.02

8.04

8.06

8.08

8.10

8.12

8.14

8.16

8.18

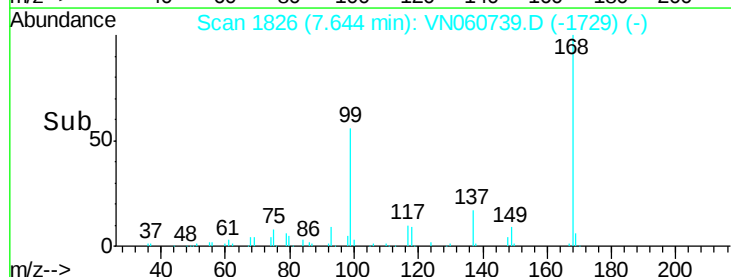
8.20

8.22

8.24

8.26

8.28



Time-->



#33

1,2-Dichloroethane-d4

Concen: 47.152 ug/l

RT: 8.00 min Scan# 1938

Delta R.T. -0.00 min

Lab File: VN060739.D

Acq: 27 Mar 2020 14:08

Instrument :

MSVOA_N

ClientSampleId :

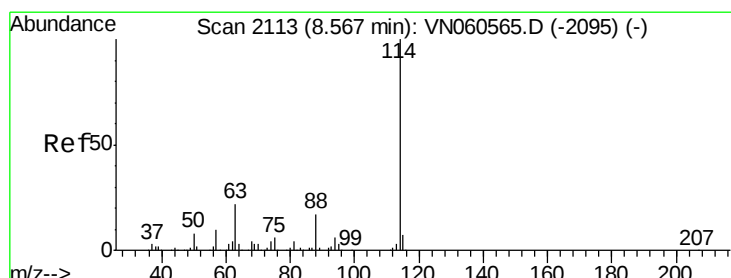
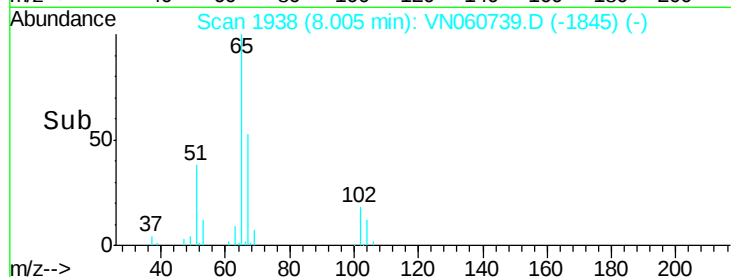
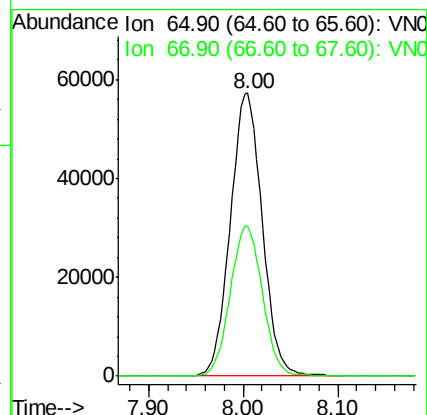
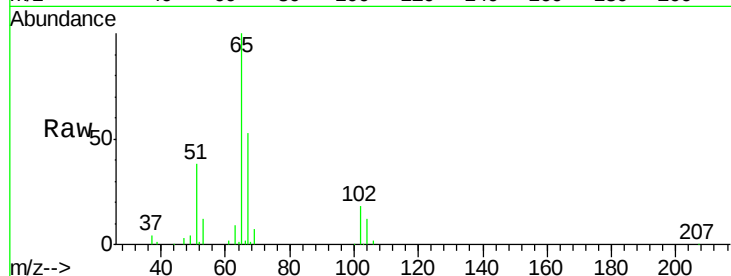
PB127814ZHE#04

Tgt Ion: 65 Resp: 134067

Ion Ratio Lower Upper

65 100

67 53.5 0.0 107.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.57 min Scan# 2113

Delta R.T. -0.00 min

Lab File: VN060739.D

Acq: 27 Mar 2020 14:08

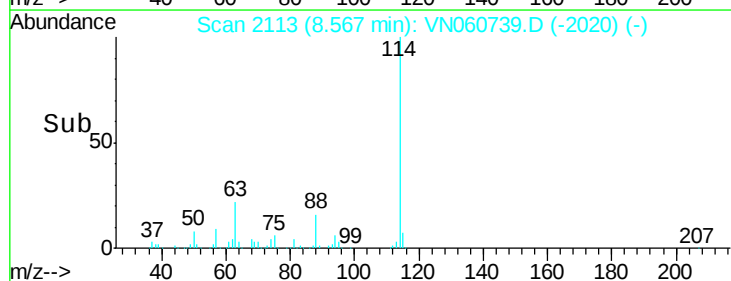
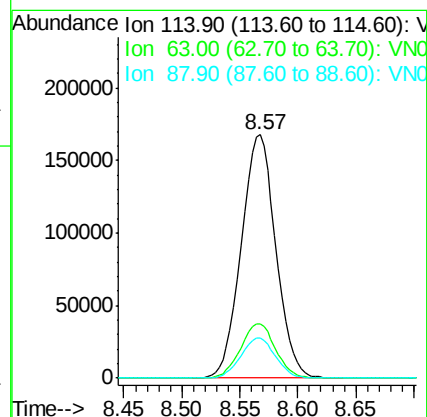
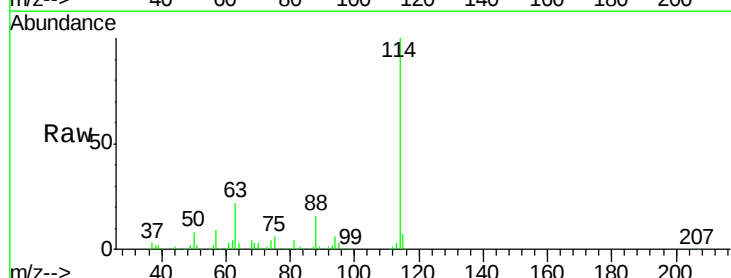
Tgt Ion: 114 Resp: 346563

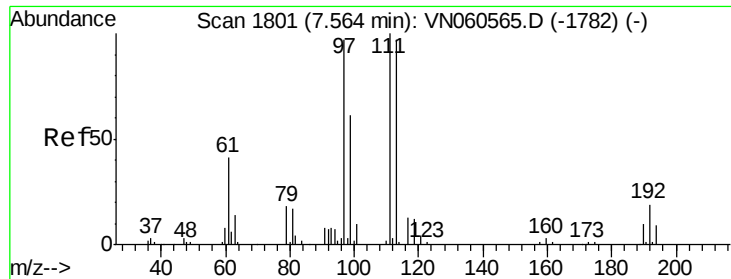
Ion Ratio Lower Upper

114 100

63 22.3 0.0 43.8

88 16.2 0.0 33.0





#35

Dibromofluoromethane

Concen: 49.007 ug/l

RT: 7.57 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VN060739.D

Acq: 27 Mar 2020 14:08

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#04

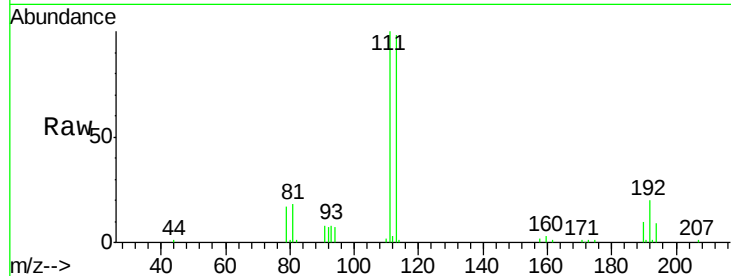
Tgt Ion:113 Resp: 102697

Ion Ratio Lower Upper

113 100

111 103.2 82.9 124.3

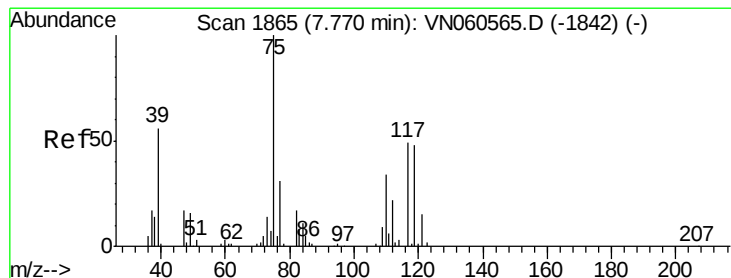
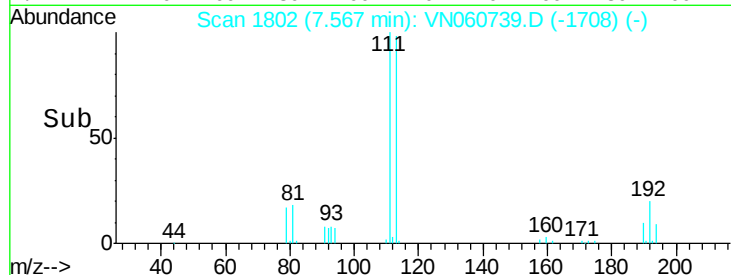
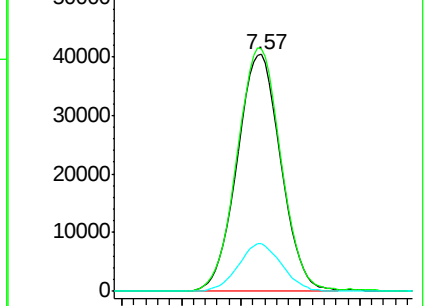
192 20.0 15.8 23.8



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: 4.824 ug/l

RT: 7.64 min Scan# 1825

Delta R.T. -0.13 min

Lab File: VN060739.D

Acq: 27 Mar 2020 14:08

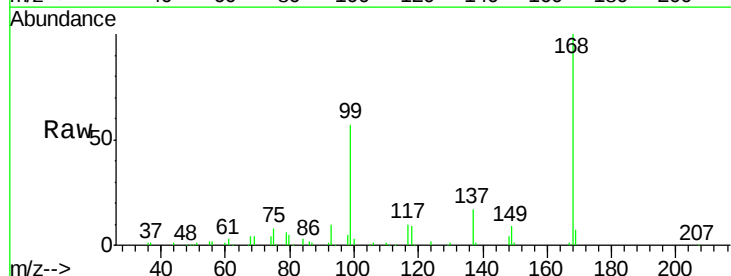
Tgt Ion: 75 Resp: 16190

Ion Ratio Lower Upper

75 100

110 7.8 16.9 50.6#

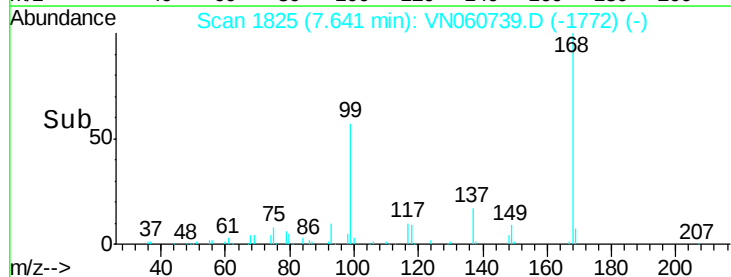
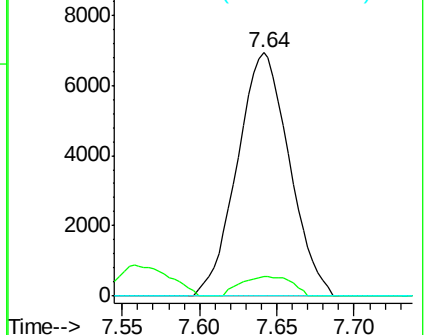
77 0.0 24.6 36.8#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V

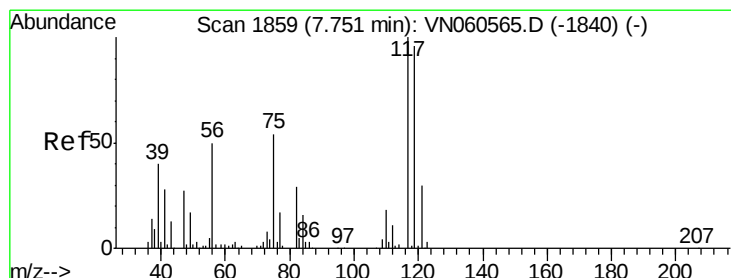
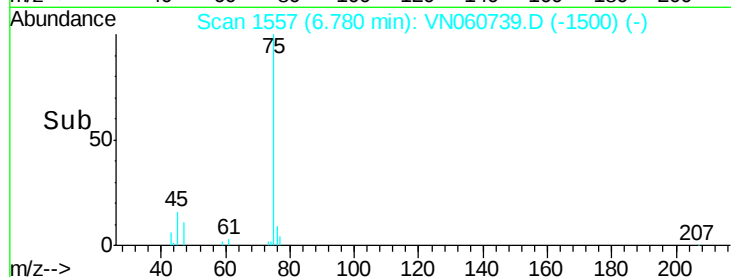
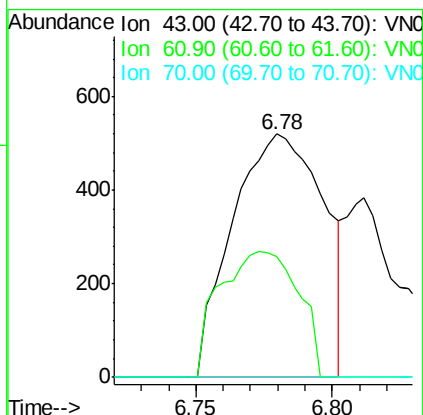
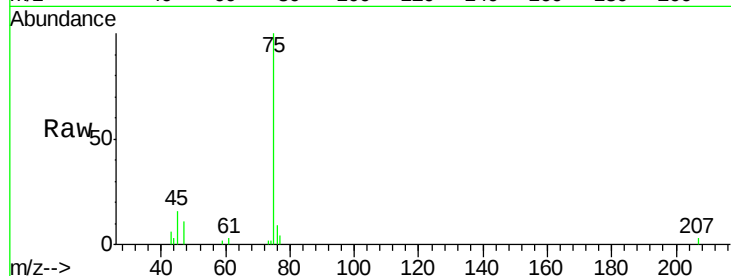




#37
 Ethyl Acetate
 Concen: 0.332 ug/l
 RT: 6.78 min Scan# 1557
 Delta R.T. -0.12 min
 Lab File: VN060739.D
 Acq: 27 Mar 2020 14:08

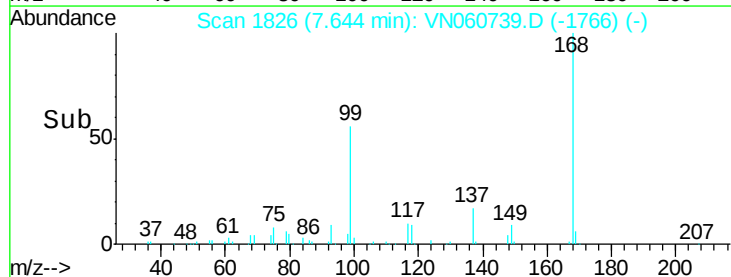
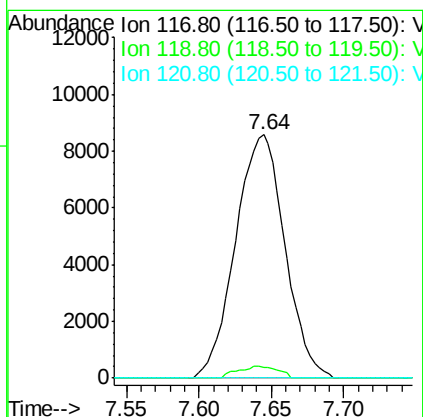
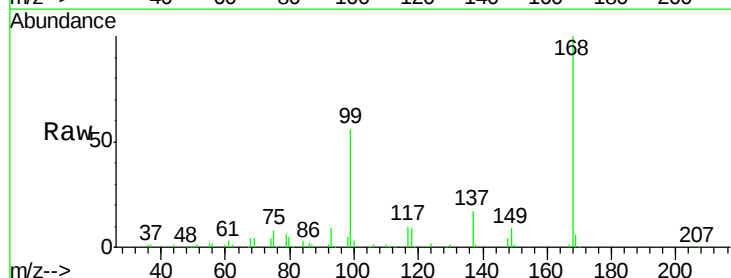
Instrument :
 MSVOA_N
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 PB127814ZHE#04

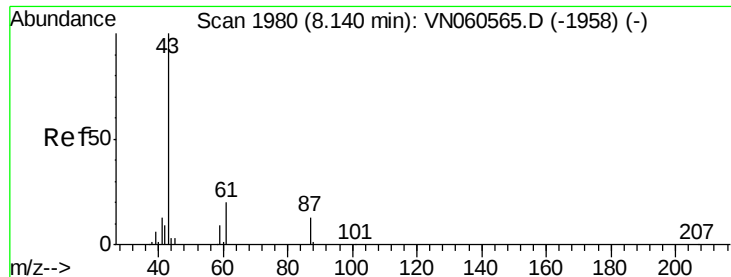
Tgt Ion: 43 Resp: 1205
 Ion Ratio Lower Upper
 43 100
 61 44.6 10.6 15.8#
 70 0.0 7.9 11.9#



#38
 Carbon Tetrachloride
 Concen: 6.739 ug/l
 RT: 7.64 min Scan# 1826
 Delta R.T. -0.11 min
 Lab File: VN060739.D
 Acq: 27 Mar 2020 14:08

Tgt Ion: 117 Resp: 20268
 Ion Ratio Lower Upper
 117 100
 119 4.5 76.2 114.2#
 121 0.0 23.7 35.5#





#43

Isopropyl Acetate

Concen: 10.912 ug/l

RT: 8.14 min Scan# 1980

Delta R.T. -0.00 min

Lab File: VN060739.D

Acq: 27 Mar 2020 14:08

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#04

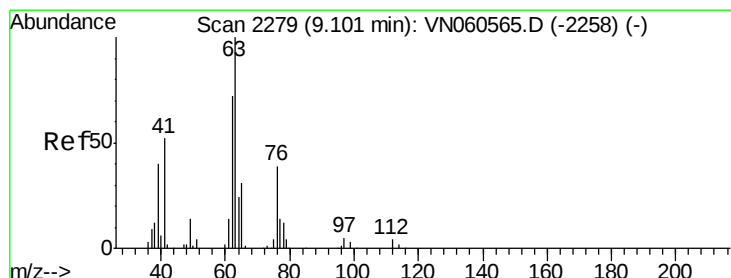
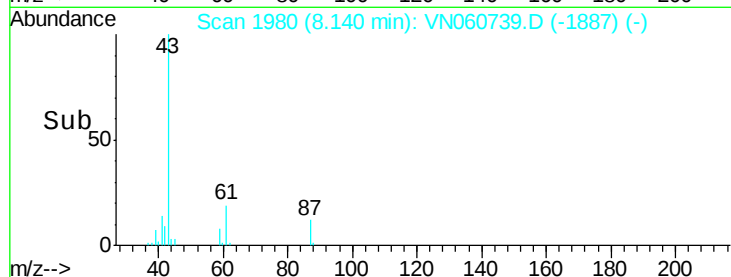
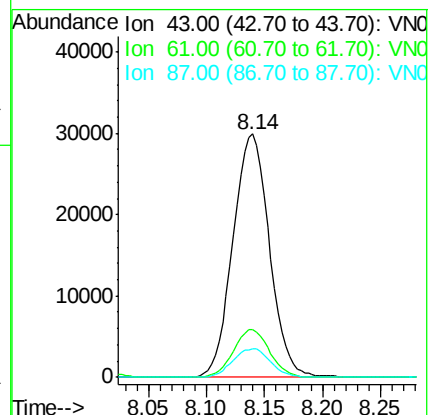
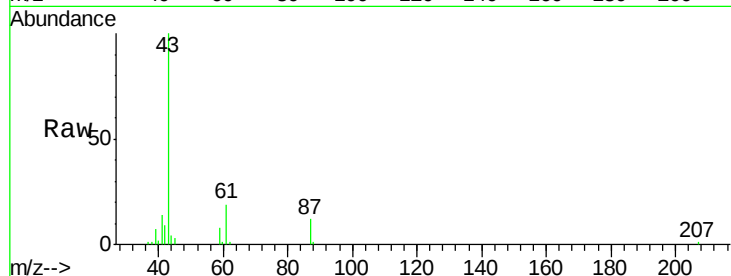
Tgt Ion: 43 Resp: 65256

Ion Ratio Lower Upper

43 100

61 19.3 20.7 31.1#

87 12.0 9.8 14.8



#45

1,2-Dichloropropane

Concen: 0.434 ug/l

RT: 9.26 min Scan# 2327

Delta R.T. 0.15 min

Lab File: VN060739.D

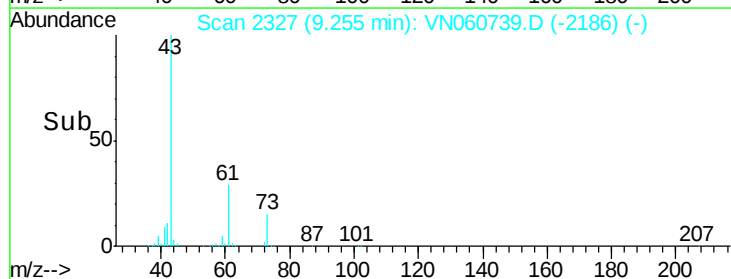
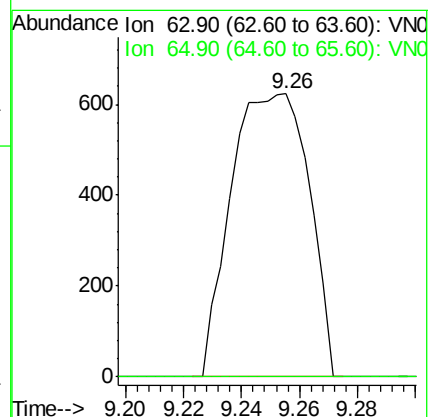
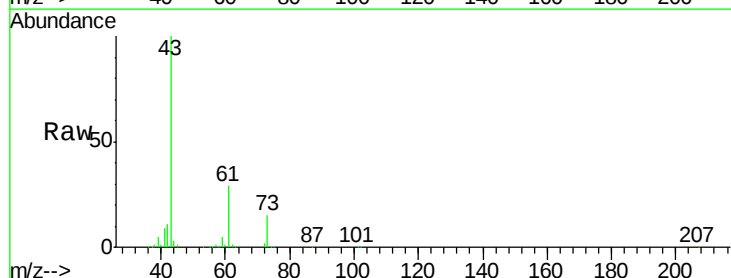
Acq: 27 Mar 2020 14:08

Tgt Ion: 63 Resp: 1160

Ion Ratio Lower Upper

63 100

65 0.0 25.4 38.0#

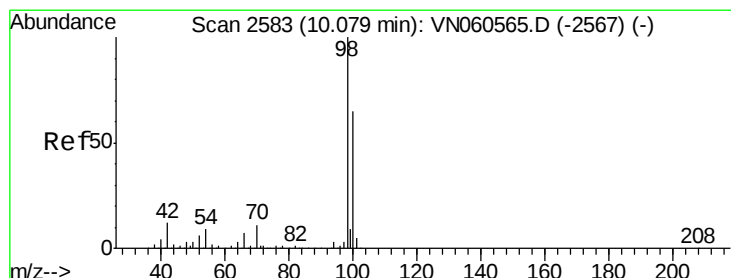
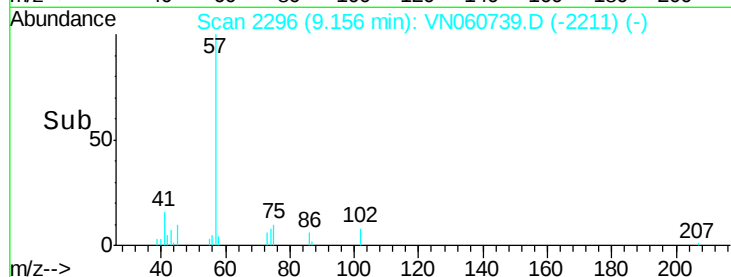
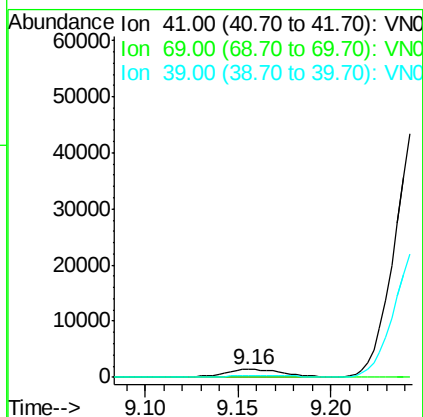
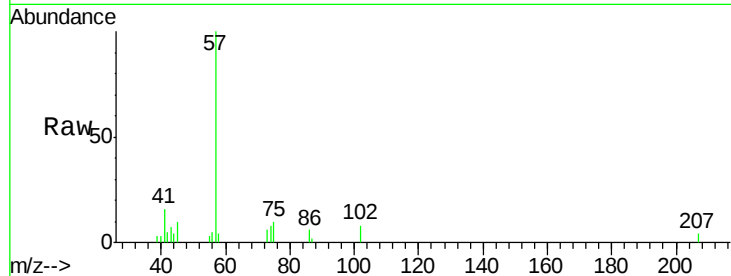




#48
Methyl methacrylate
Concen: 1.180 ug/l
RT: 9.16 min Scan# 2296
Delta R.T. -0.03 min
Lab File: VN060739.D
Acq: 27 Mar 2020 14:08

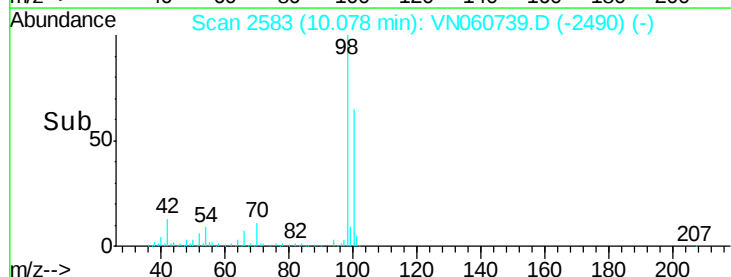
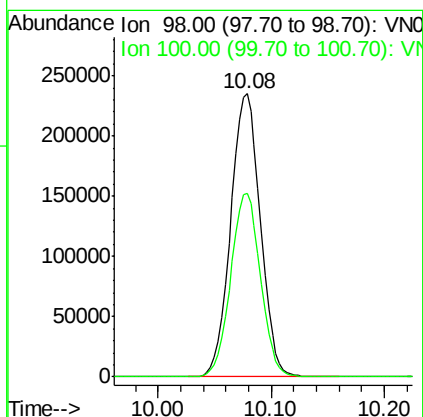
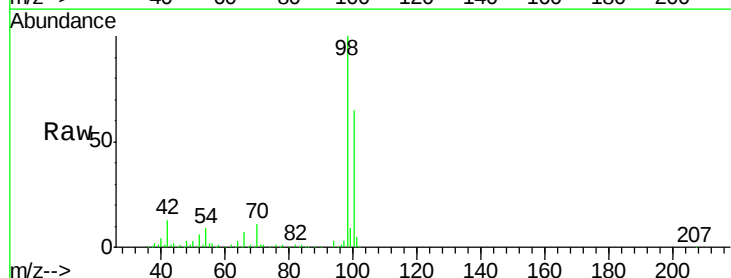
Instrument :
MSVOA_N
ClientSampleId :
PB127814ZHE#04

Tgt Ion: 41 Resp: 3143
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.0#
39 0.0 44.0 66.0#



#50
Toluene-d8
Concen: 50.250 ug/l
RT: 10.08 min Scan# 2583
Delta R.T. -0.00 min
Lab File: VN060739.D
Acq: 27 Mar 2020 14:08

Tgt Ion: 98 Resp: 430113
Ion Ratio Lower Upper
98 100
100 64.8 51.8 77.8

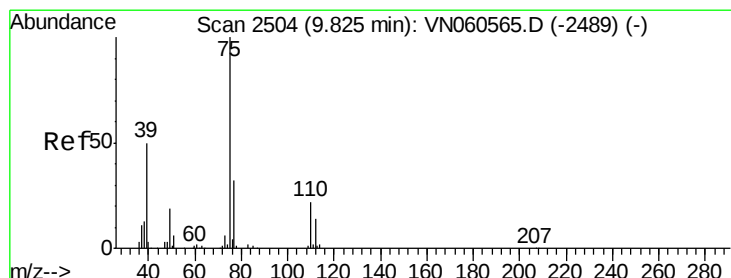
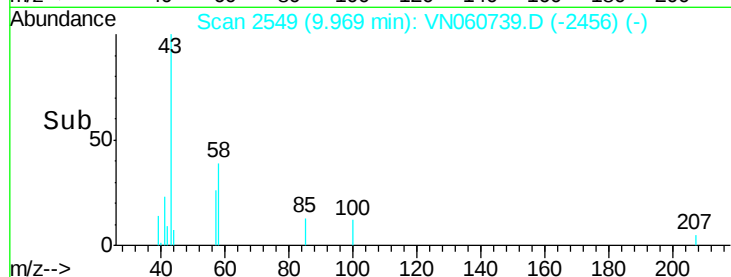
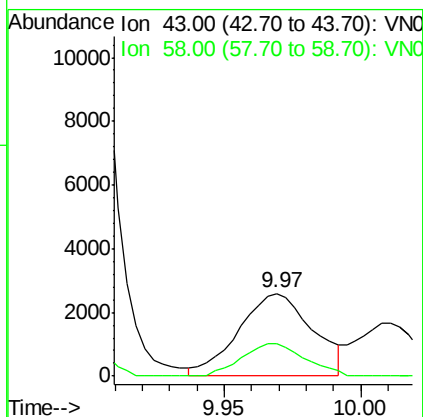
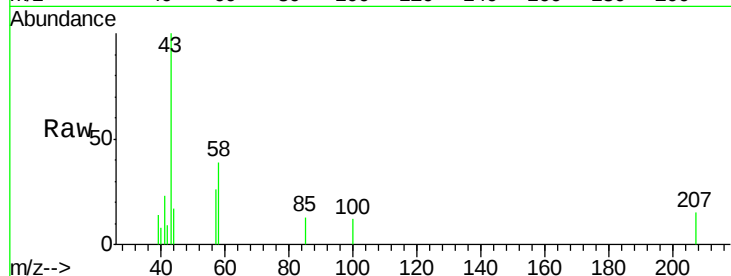




#51
 4-Methyl-2-Pentanone
 Concen: 1.438 ug/l
 RT: 9.97 min Scan# 2549
 Delta R.T. -0.00 min
 Lab File: VN060739.D
 Acq: 27 Mar 2020 14:08

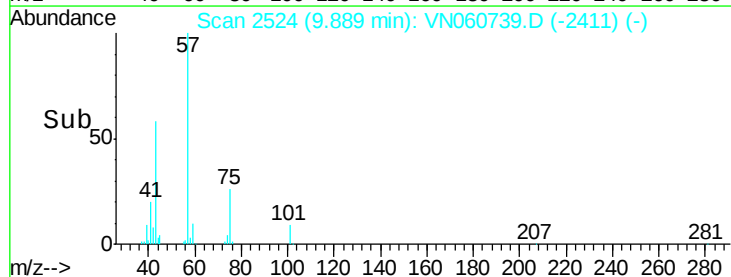
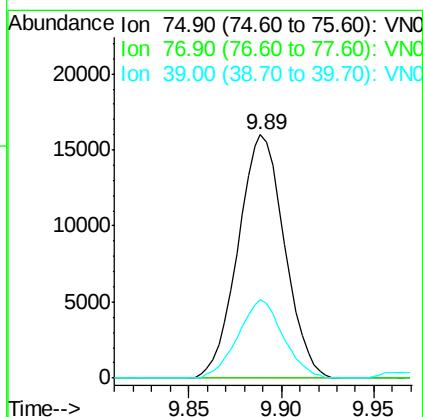
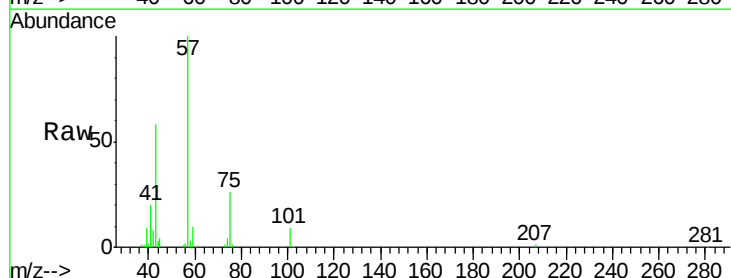
Instrument :
 MSVOA_N
 ClientSampleId :
 PB127814ZHE#04

Tgt Ion: 43 Resp: 4892
 Ion Ratio Lower Upper
 43 100
 58 33.9 30.8 46.2



#54
 cis-1,3-Dichloropropene
 Concen: 6.551 ug/l
 RT: 9.89 min Scan# 2524
 Delta R.T. 0.06 min
 Lab File: VN060739.D
 Acq: 27 Mar 2020 14:08

Tgt Ion: 75 Resp: 27723
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.4 38.0#
 39 32.4 40.2 60.4#





#57

1,3-Dichloropropane

Concen: 1.148 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.06 min

Lab File: VN060739.D

Acq: 27 Mar 2020 14:08

Instrument :

MSVOA_N

ClientSampleId :

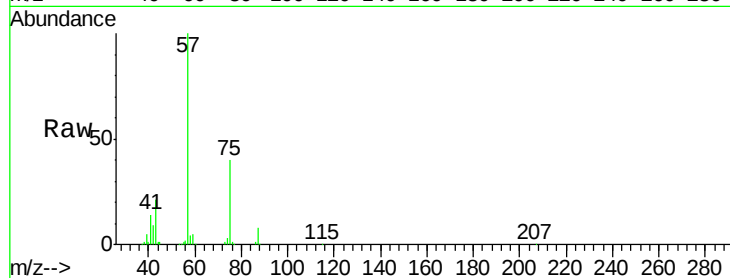
PB127814ZHE#04

Tgt Ion: 76 Resp: 4689

Ion Ratio Lower Upper

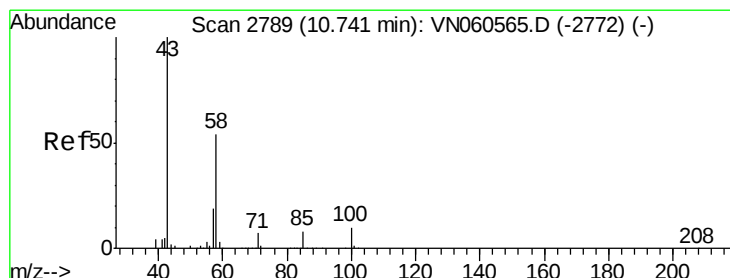
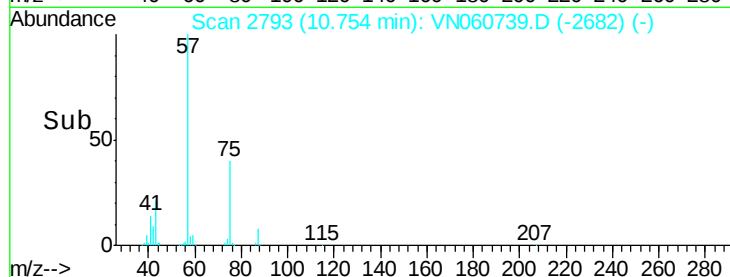
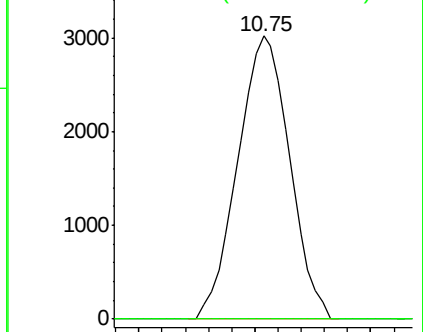
76 100

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: 27.471 ug/l

RT: 10.75 min Scan# 2793

Delta R.T. 0.01 min

Lab File: VN060739.D

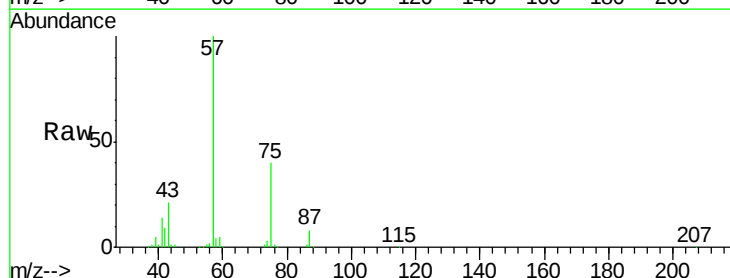
Acq: 27 Mar 2020 14:08

Tgt Ion: 43 Resp: 67340

Ion Ratio Lower Upper

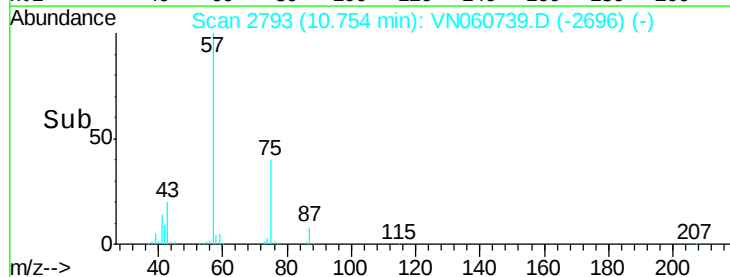
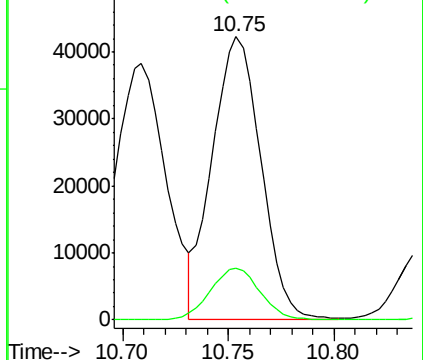
43 100

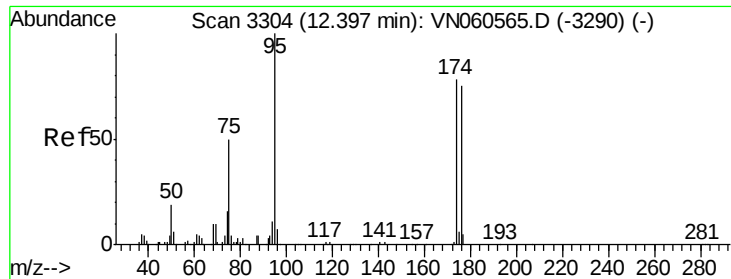
58 18.8 26.7 80.1#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 51.540 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.00 min

Lab File: VN060739.D

Acq: 27 Mar 2020 14:08

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#04

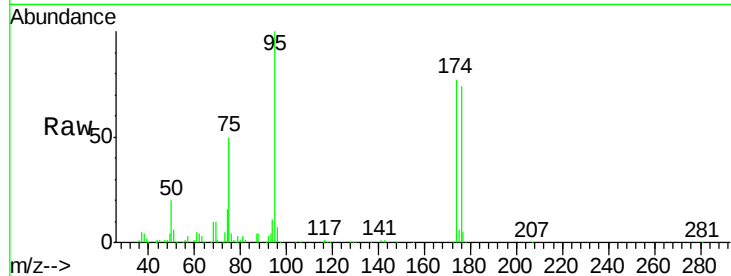
Tgt Ion: 95 Resp: 161679

Ion Ratio Lower Upper

95 100

174 78.0 0.0 157.6

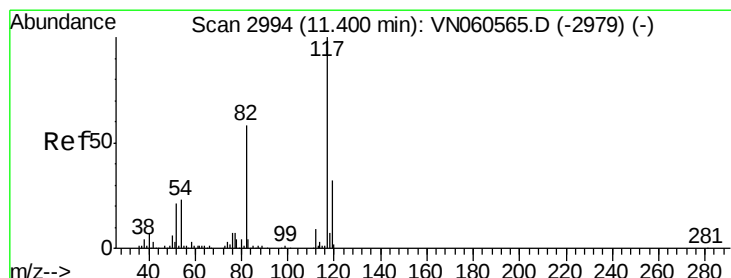
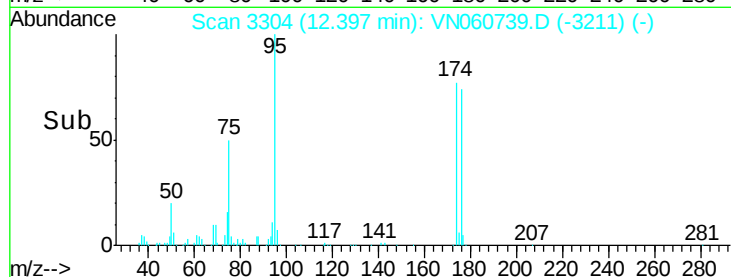
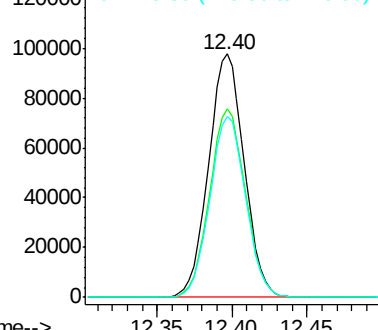
176 74.6 0.0 150.6



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.40 min Scan# 2994

Delta R.T. -0.00 min

Lab File: VN060739.D

Acq: 27 Mar 2020 14:08

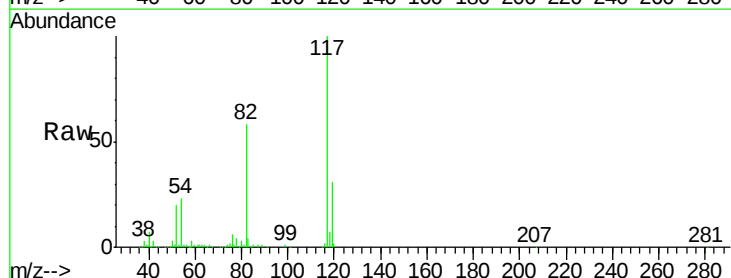
Tgt Ion: 117 Resp: 328186

Ion Ratio Lower Upper

117 100

82 57.8 46.7 70.1

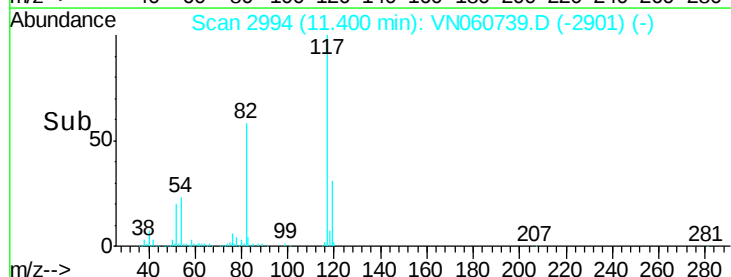
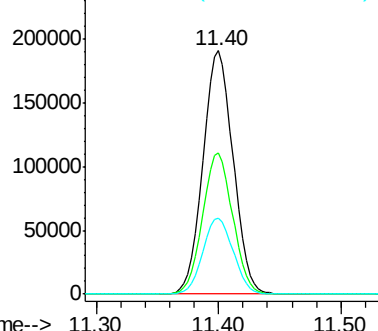
119 31.3 25.5 38.3

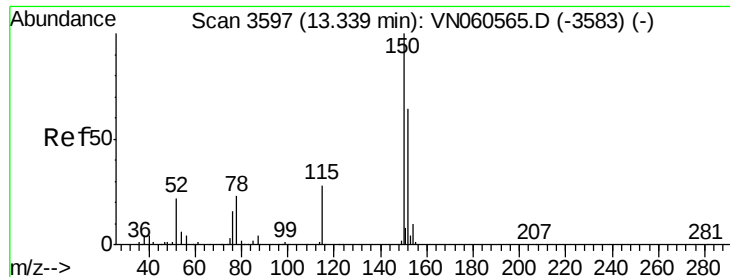


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3597

Delta R.T. -0.00 min

Lab File: VN060739.D

Acq: 27 Mar 2020 14:08

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#04

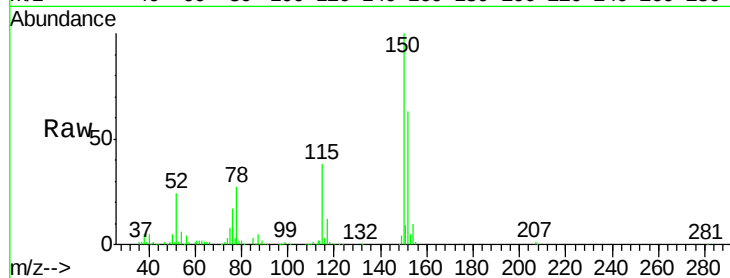
Tgt Ion: 152 Resp: 148672

Ion Ratio Lower Upper

152 100

115 60.0 30.2 90.6

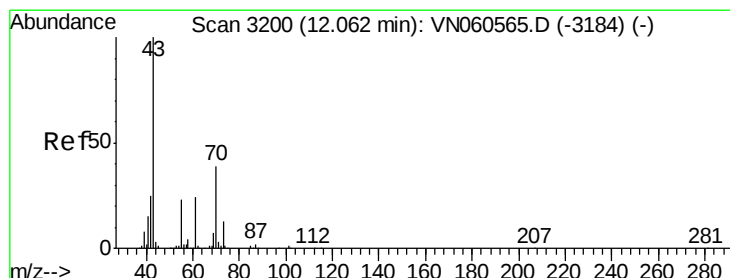
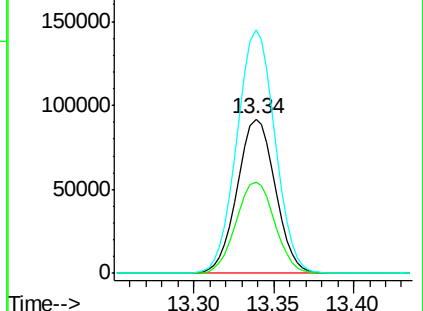
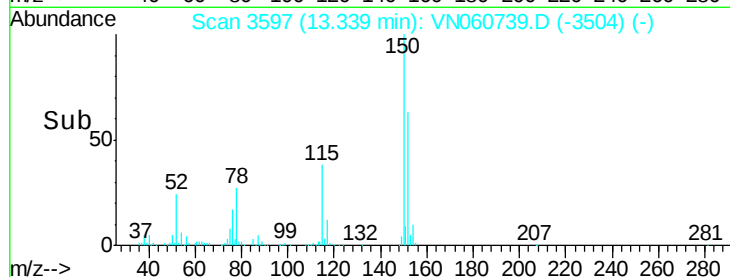
150 158.0 0.0 350.2



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: 0.505 ug/l

RT: 12.02 min Scan# 3187

Delta R.T. -0.04 min

Lab File: VN060739.D

Acq: 27 Mar 2020 14:08

Tgt Ion: 43 Resp: 2602

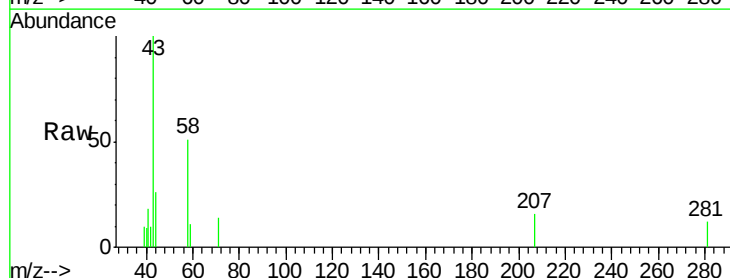
Ion Ratio Lower Upper

43 100

70 0.0 31.1 46.7#

55 0.0 18.6 27.8#

61 0.0 18.9 28.3#

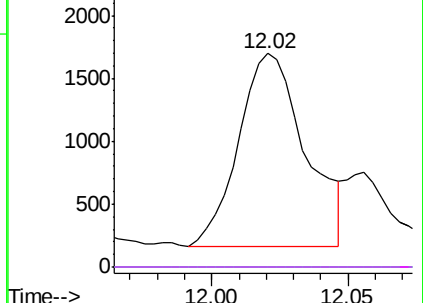
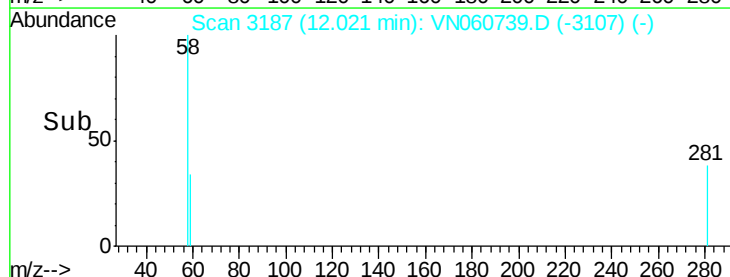


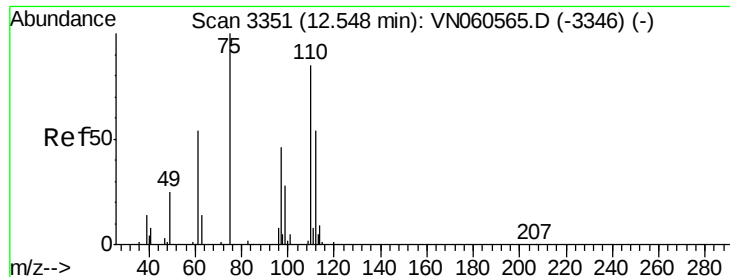
Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V





#76

1,2,3-Trichloropropane

Concen: 25.430 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. -0.15 min

Lab File: VN060739.D

Acq: 27 Mar 2020 14:08

Instrument :

MSVOA_N

ClientSampleId :

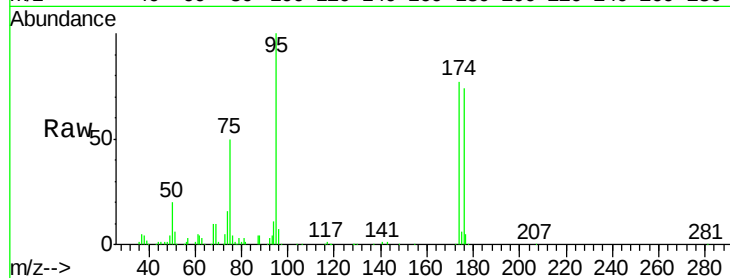
PB127814ZHE#04

Tgt Ion: 75 Resp: 81579

Ion Ratio Lower Upper

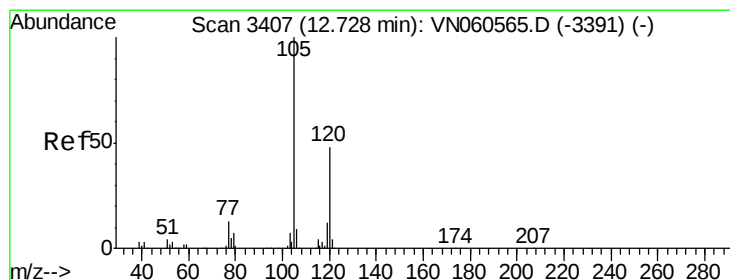
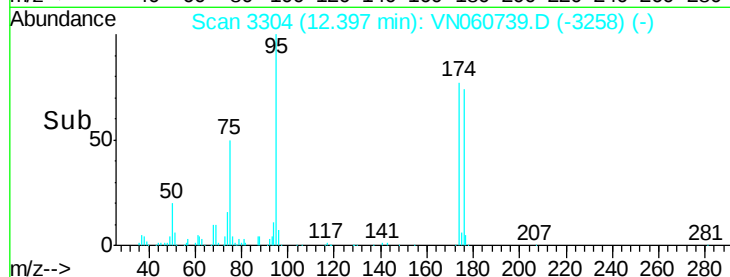
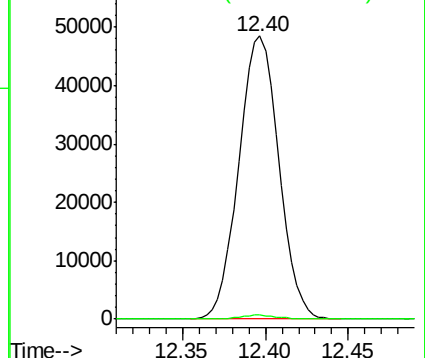
75 100

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: 0.832 ug/l

RT: 12.73 min Scan# 3407

Delta R.T. -0.00 min

Lab File: VN060739.D

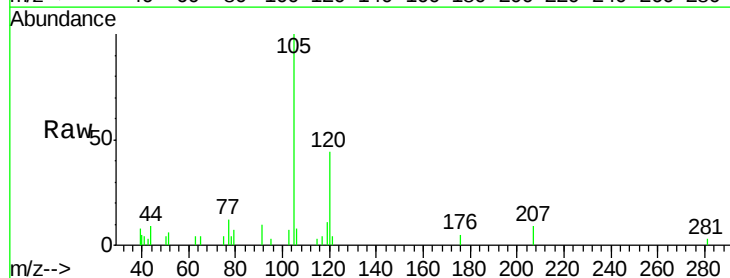
Acq: 27 Mar 2020 14:08

Tgt Ion: 105 Resp: 7874

Ion Ratio Lower Upper

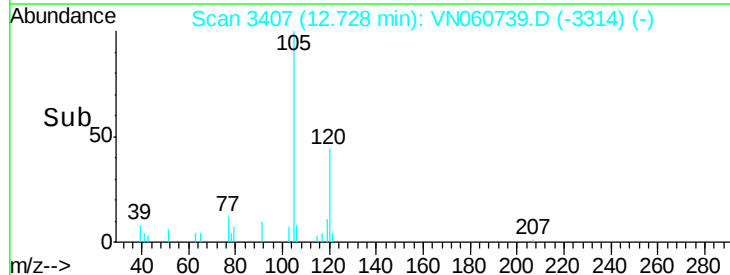
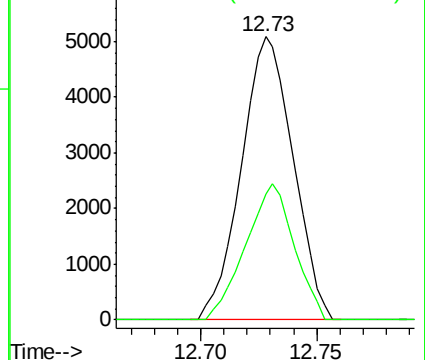
105 100

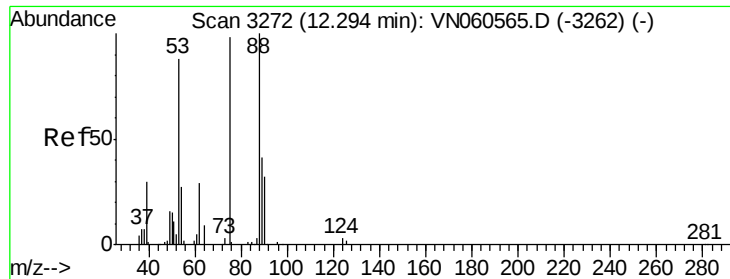
120 45.1 23.9 71.7



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: 65.311 ug/l

RT: 12.40 min Scan# 3304

Delta R.T. 0.10 min

Lab File: VN060739.D

Acq: 27 Mar 2020 14:08

Instrument :

MSVOA_N

ClientSampleId :

PB127814ZHE#04

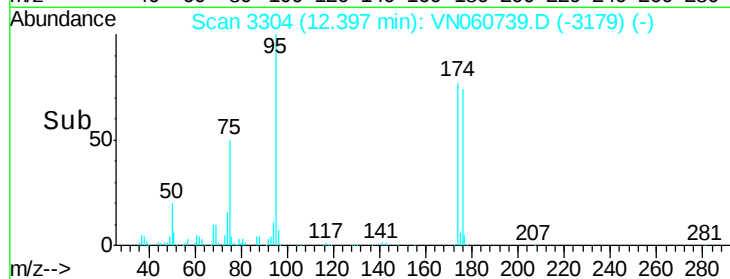
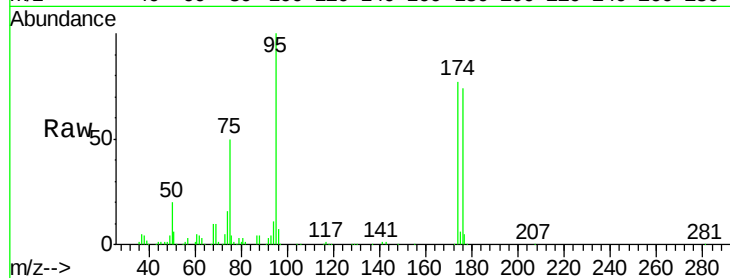
Tgt Ion: 75 Resp: 81579

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): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0

