

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070218\
 Data File : VN049678.D
 Acq On : 2 Jul 2018 19:03
 Operator : MD\SY
 Sample : PB110744 ZHE#05
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB110744 ZHE#05

Quant Time: Jul 03 03:49:49 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N062918W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 30 00:55:30 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1259508	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2057574	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1692343	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	659799	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	862340	51.85	ug/l	0.00
Spiked Amount			Recovery	=	103.70%	
35) Dibromofluoromethane	7.59	113	723255	47.02	ug/l	0.00
Spiked Amount			Recovery	=	94.04%	
50) Toluene-d8	10.09	98	2755593	45.77	ug/l	0.00
Spiked Amount			Recovery	=	91.54%	
62) 4-Bromofluorobenzene	12.41	95	804728	39.15	ug/l	0.00
Spiked Amount			Recovery	=	78.30%	

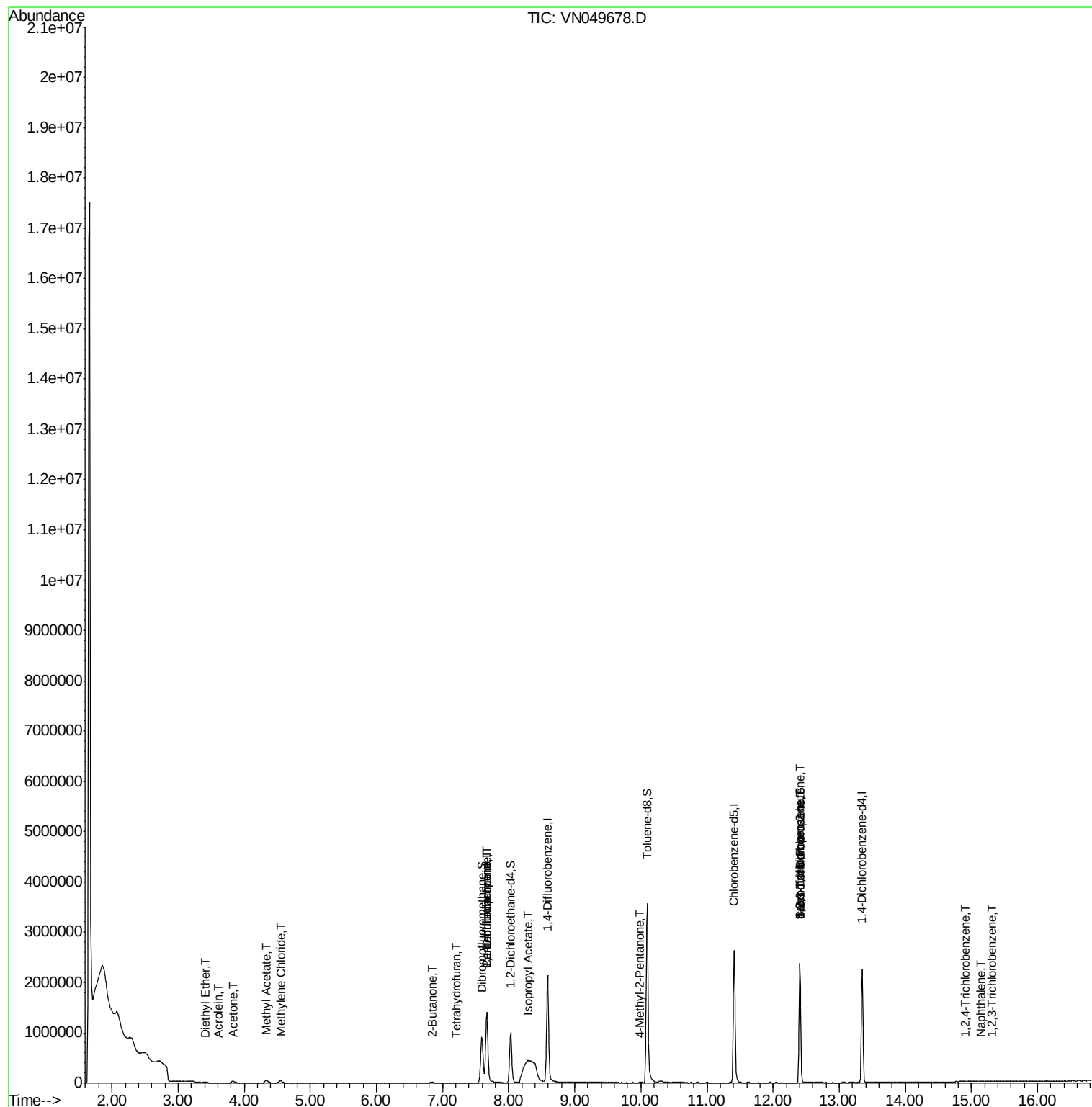
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
8) Diethyl Ether	3.41	74	2477	0.28	ug/l #	47
13) Acrolein	3.61	56	1563	1.75	ug/l #	59
16) Acetone	3.83	43	52459	7.97	ug/l	98
17) Carbon Disulfide	4.05	76	1139	Below Cal	#	75
18) Methyl Acetate	4.33	43	113004	2.50	ug/l	96
20) Methylene Chloride	4.55	84	32212	1.88	ug/l #	94
25) 2-Butanone	6.85	43	7965	1.44	ug/l	93
29) Tetrahydrofuran	7.21	42	1155	0.33	ug/l #	77
36) 1,1-Dichloropropene	7.67	75	85228	3.68	ug/l #	49
38) Carbon Tetrachloride	7.67	117	111628	4.96	ug/l #	17
43) Isopropyl Acetate	8.29	43	817014	30.25	ug/l #	62
51) 4-Methyl-2-Pentanone	9.99	43	5231	0.40	ug/l #	64
71) Bromoform	12.40	173	3615	0.34	ug/l #	1
75) 1,1,2,2-Tetrachloroethane	12.52	83	30	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	389499	36.81	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	389499	125.02	ug/l #	13
87) 1,3-Dichlorobenzene	13.29	146	487	Below Cal	#	63
88) 1,4-Dichlorobenzene	13.36	146	300	Below Cal	#	1
91) 1,2-Dichlorobenzene	13.66	146	288	Below Cal	#	25
92) 1,2-Dibromo-3-Chloropropan	14.26	75	390	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	246	2.42	ug/l #	52
95) Naphthalene	15.14	128	1746	4.10	ug/l #	79
96) 1,2,3-Trichlorobenzene	15.31	180	70	1.65	ug/l #	30

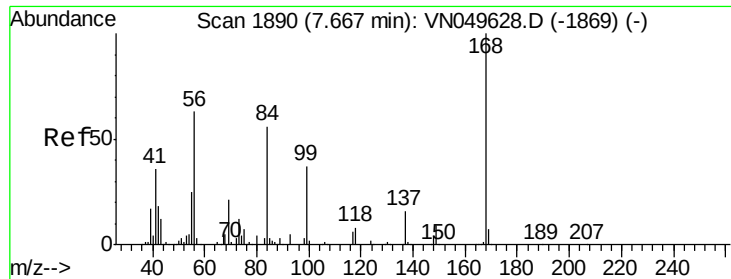
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 03 03:49:49 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N062918W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 30 00:55:30 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049678.D

Acq: 2 Jul 2018 19:03

Instrument :

MSVOA_N

ClientSampleId :

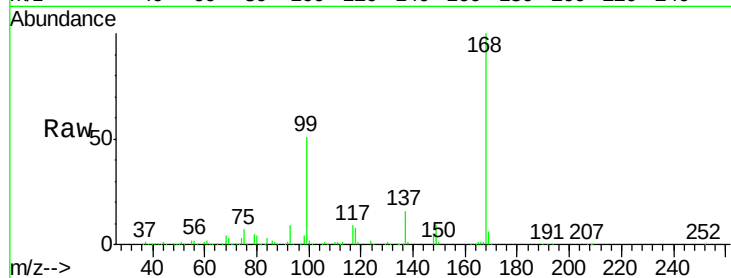
PB110744 ZHE#05

Tot Ion:168 Resp: 1259508

Ion Ratio Lower Upper

168 100

99 50.5 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): VN049678.D (-1797) (-)

Ion 98.90 (98.60 to 99.60): VN049678.D (-1797) (-)

7.67

600000

500000

400000

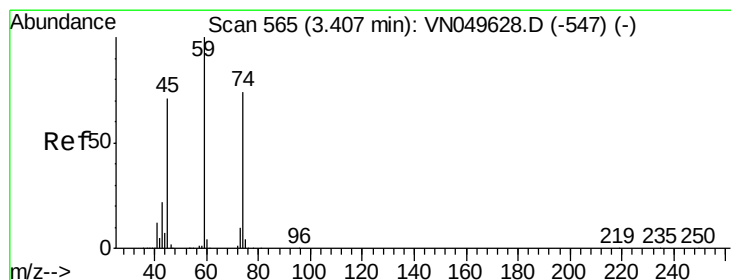
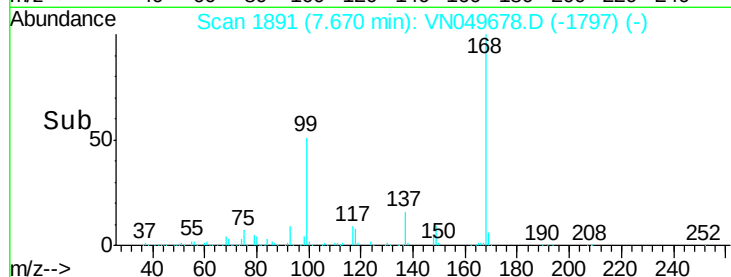
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 0.28 ug/l

RT: 3.41 min Scan# 565

Delta R.T. -0.00 min

Lab File: VN049678.D

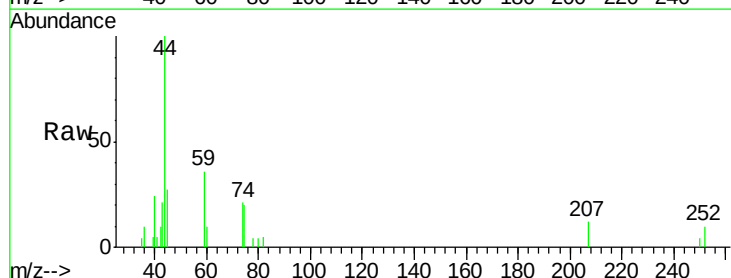
Acq: 2 Jul 2018 19:03

Tgt Ion: 74 Resp: 2477

Ion Ratio Lower Upper

74 100

45 45.0 48.4 145.2#



Abundance Ion 74.00 (73.70 to 74.70): VN049678.D (-472) (-)

Ion 45.00 (44.70 to 45.70): VN049678.D (-472) (-)

3.41

2000

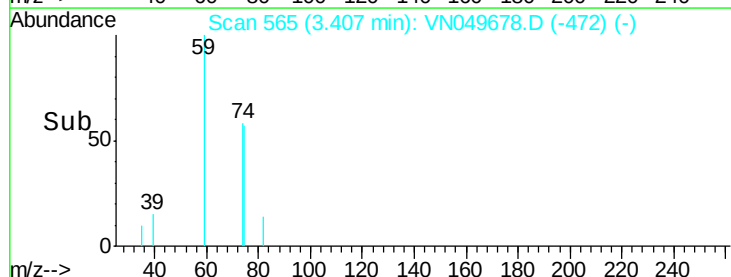
1500

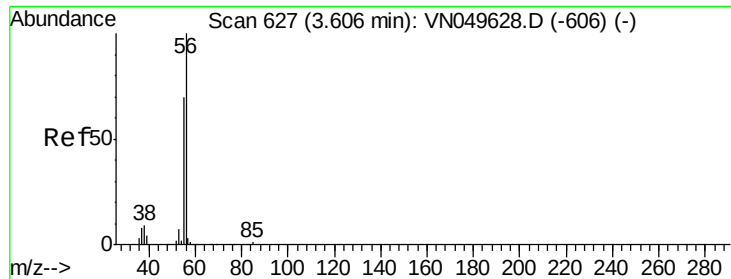
1000

500

0

Time-->





#13

Acrolein

Concen: 1.75 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN049678.D

Acq: 2 Jul 2018 19:03

Instrument :

MSVOA_N

ClientSampleId :

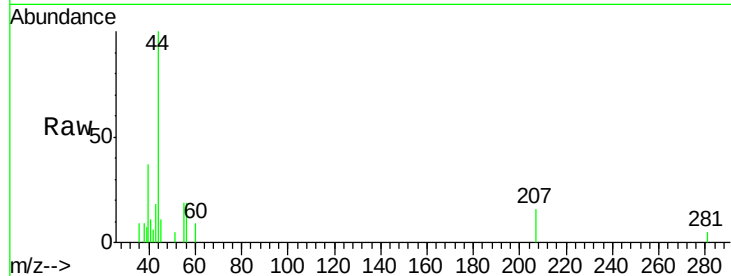
PB110744 ZHE#05

Tot Ion: 56 Resp: 1563

Ion Ratio Lower Upper

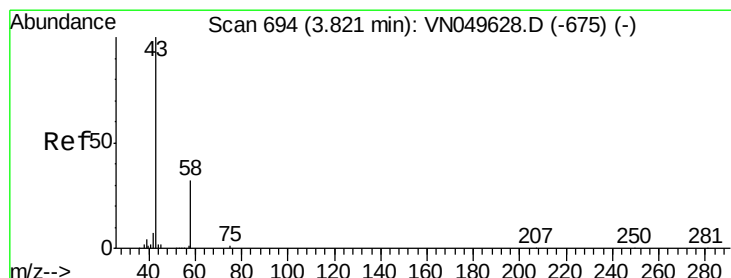
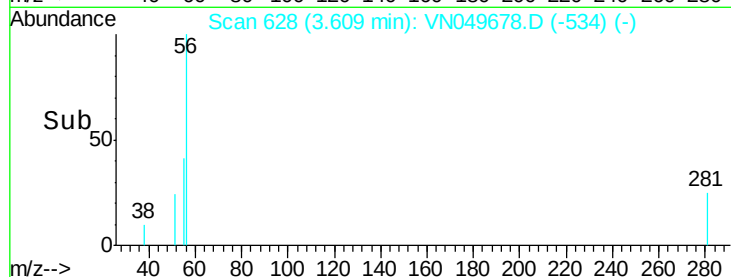
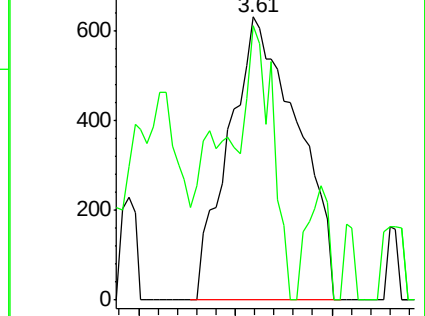
56 100

55 36.3 55.8 83.8#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#16

Acetone

Concen: 7.97 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.01 min

Lab File: VN049678.D

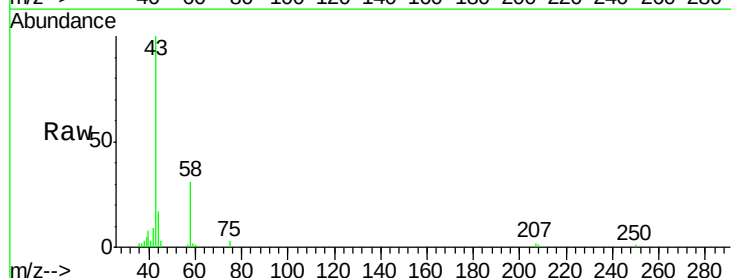
Acq: 2 Jul 2018 19:03

Tgt Ion: 43 Resp: 52459

Ion Ratio Lower Upper

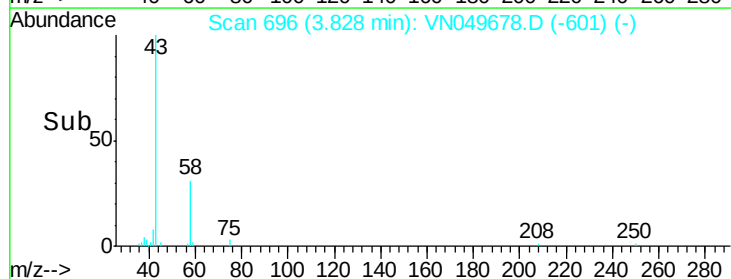
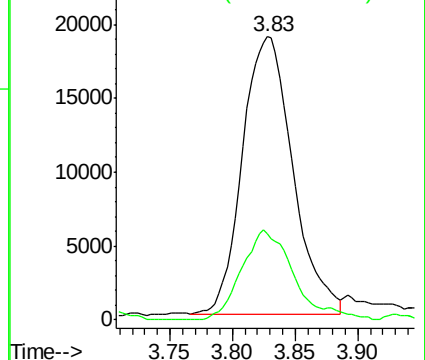
43 100

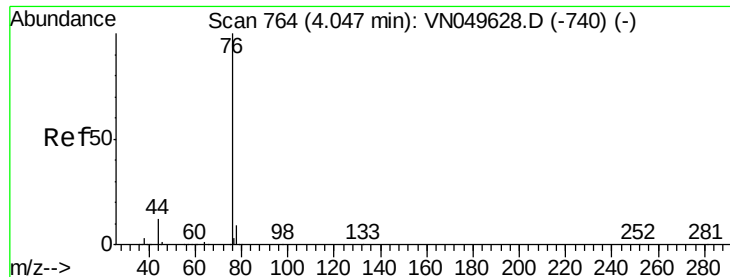
58 31.2 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#17

Carbon Disulfide

Concen: Below Cal

RT: 4.05 min Scan# 764

Delta R.T. 0.00 min

Lab File: VN049678.D

Acq: 2 Jul 2018 19:03

Instrument :

MSVOA_N

ClientSampleId :

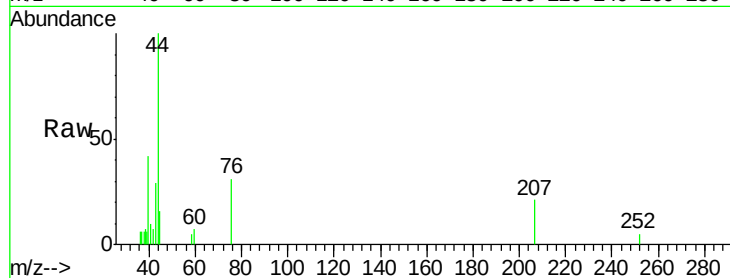
PB110744 ZHE#05

Tot Ion: 76 Resp: 1139

Ion Ratio Lower Upper

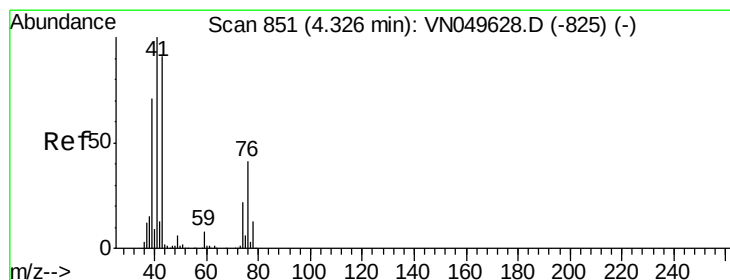
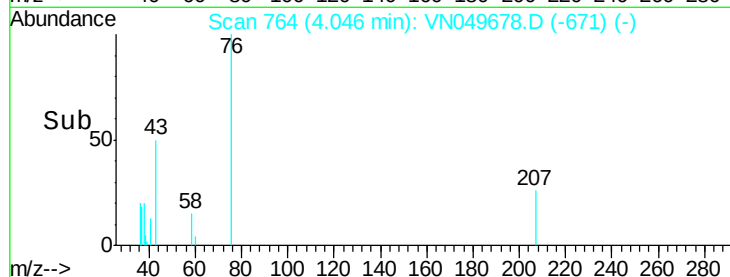
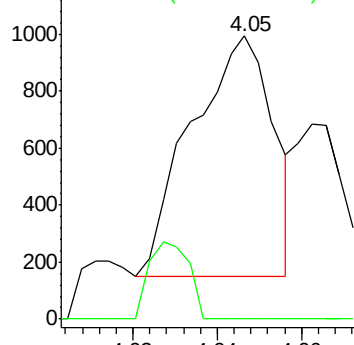
76 100

78 0.0 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 2.50 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.01 min

Lab File: VN049678.D

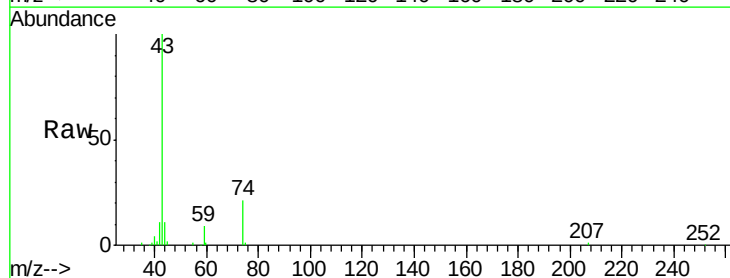
Acq: 2 Jul 2018 19:03

Tgt Ion: 43 Resp: 113004

Ion Ratio Lower Upper

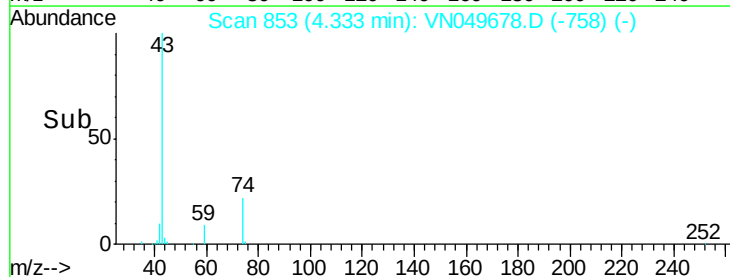
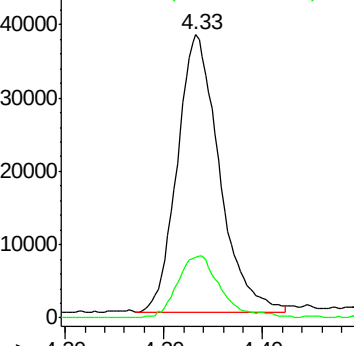
43 100

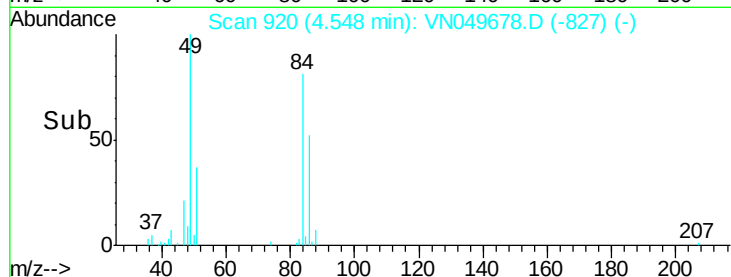
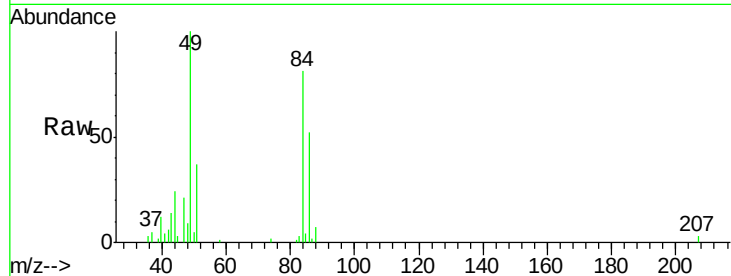
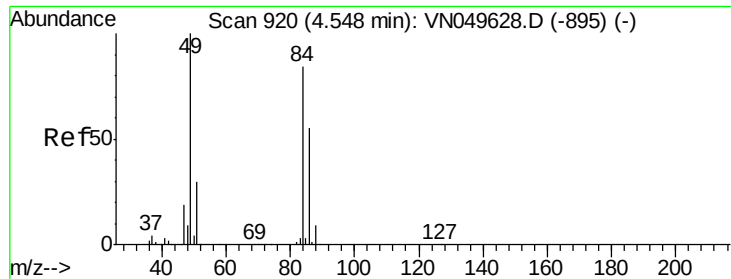
74 22.9 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0

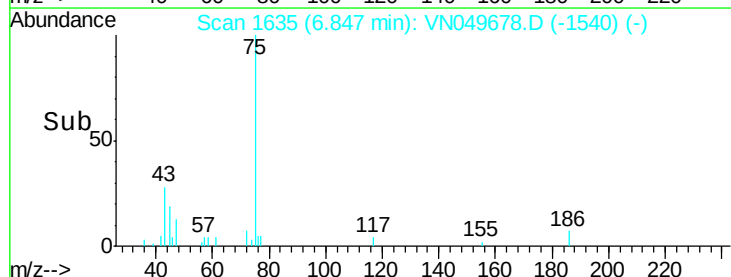
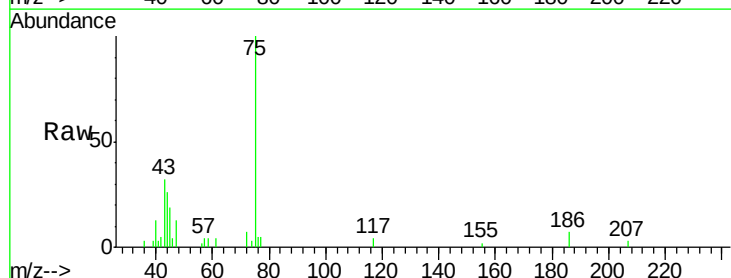
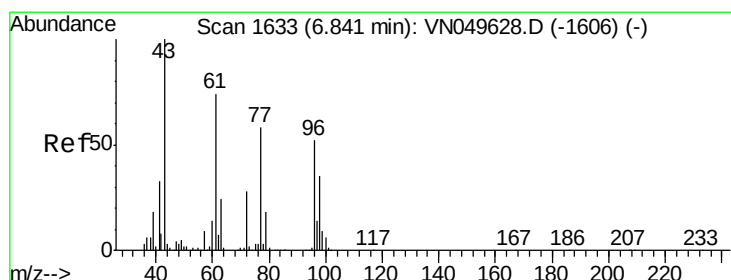
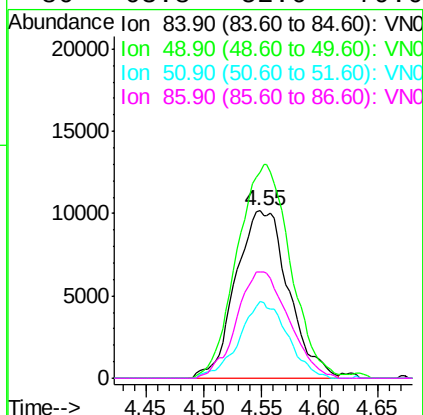




#20
Methylene Chloride
Concen: 1.88 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN049678.D
Acq: 2 Jul 2018 19:03

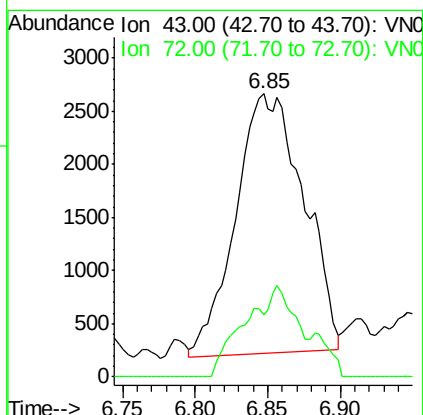
Instrument :
MSVOA_N
ClientSampleId :
PB110744 ZHE#05

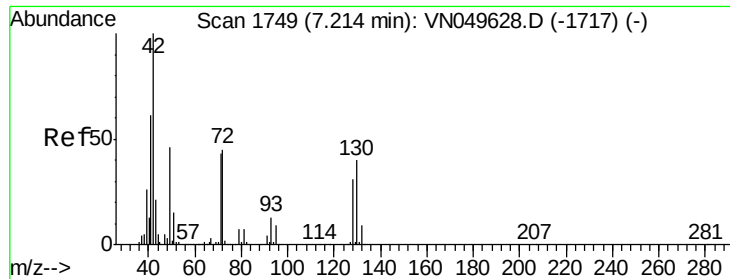
Tot Ion: 84 Resp: 32212
Ion Ratio Lower Upper
84 100
49 123.3 95.4 143.2
51 45.8 28.4 42.6#
86 63.8 52.6 79.0



#25
2-Butanone
Concen: 1.44 ug/l
RT: 6.85 min Scan# 1635
Delta R.T. 0.01 min
Lab File: VN049678.D
Acq: 2 Jul 2018 19:03

Tgt Ion: 43 Resp: 7965
Ion Ratio Lower Upper
43 100
72 24.0 22.1 33.1

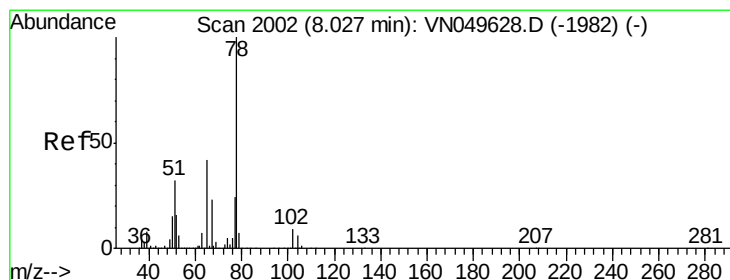
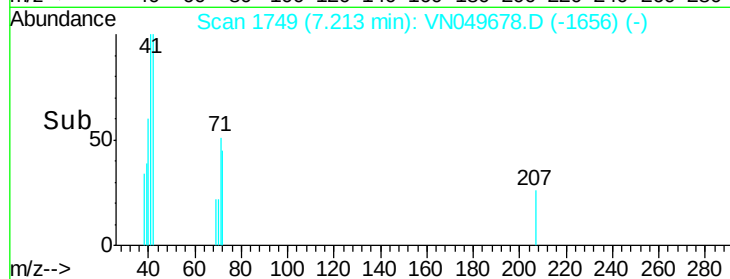
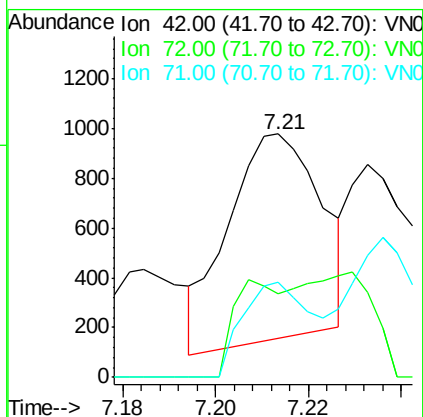
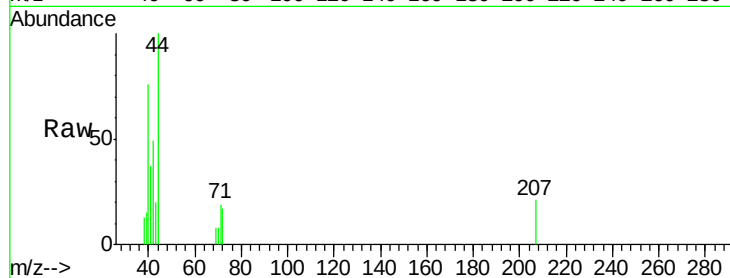




#29
Tetrahydrofuran
Concen: 0.33 ug/l
RT: 7.21 min Scan# 1749
Delta R.T. -0.00 min
Lab File: VN049678.D
Acq: 2 Jul 2018 19:03

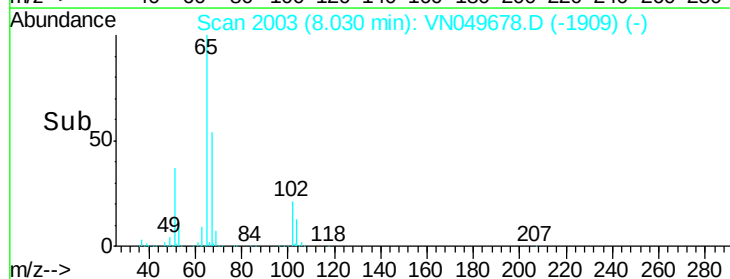
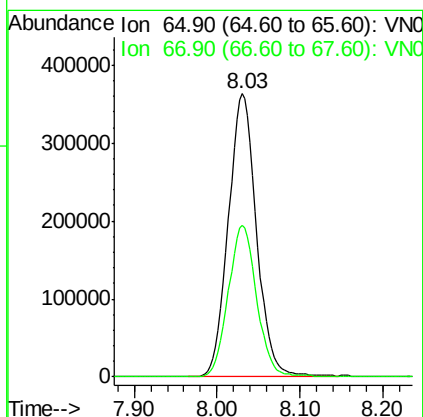
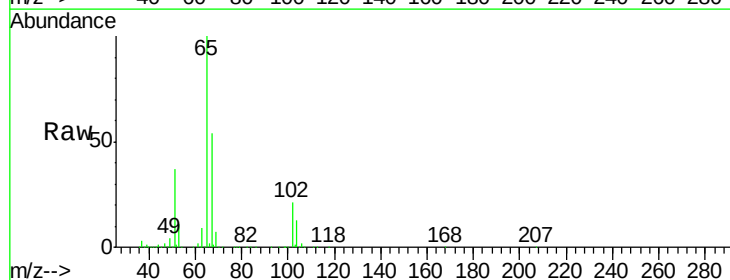
Instrument :
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PB110744 ZHE#05

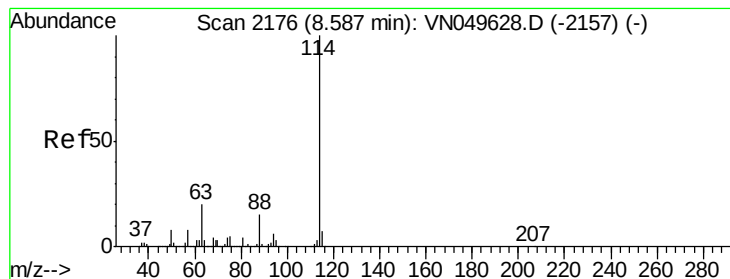
Tot Ion: 42 Resp: 1155
Ion Ratio Lower Upper
42 100
72 23.1 35.6 53.4#
71 34.1 34.0 51.0



#33
1,2-Dichloroethane-d4
Concen: 51.85 ug/l
RT: 8.03 min Scan# 2003
Delta R.T. 0.00 min
Lab File: VN049678.D
Acq: 2 Jul 2018 19:03

Tgt Ion: 65 Resp: 862340
Ion Ratio Lower Upper
65 100
67 53.8 0.0 107.2





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN049678.D

Acq: 2 Jul 2018 19:03

Instrument :

MSVOA_N

ClientSampleId :

PB110744 ZHE#05

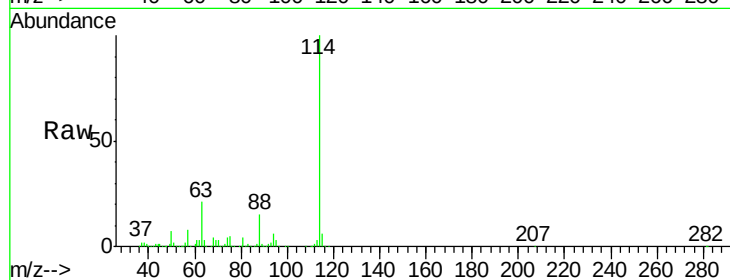
Tot Ion:114 Resp: 2057574

Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.8

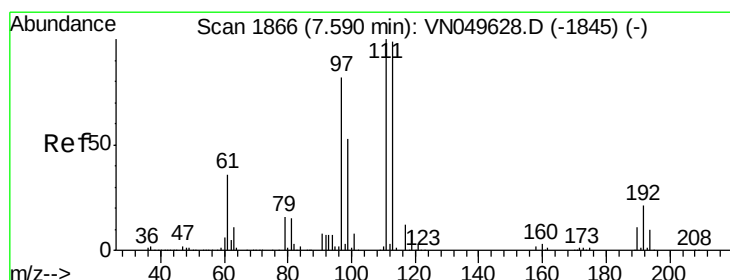
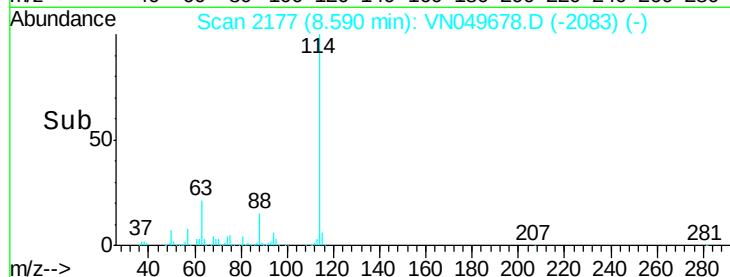
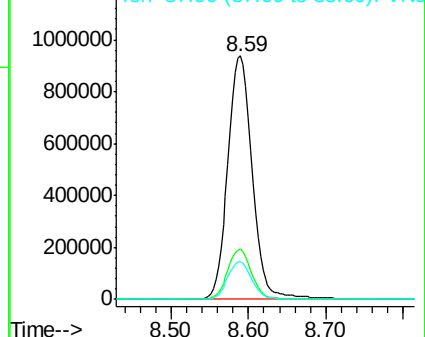
88 15.5 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN

Ion 87.90 (87.60 to 88.60): VN



#35

Dibromofluoromethane

Concen: 47.02 ug/l

RT: 7.59 min Scan# 1867

Delta R.T. 0.00 min

Lab File: VN049678.D

Acq: 2 Jul 2018 19:03

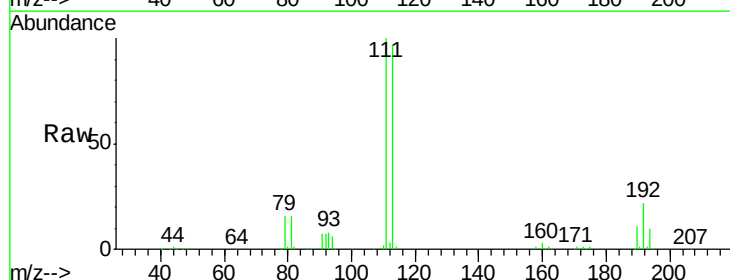
Tgt Ion:113 Resp: 723255

Ion Ratio Lower Upper

113 100

111 102.7 81.8 122.8

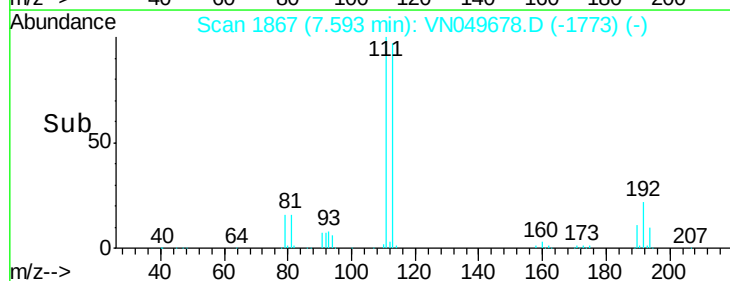
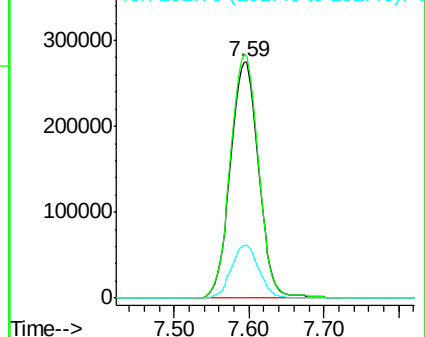
192 21.9 17.8 26.6

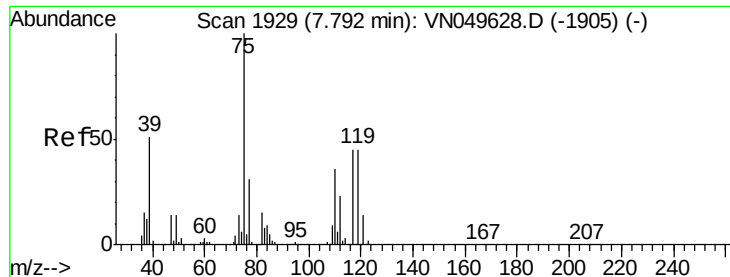


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

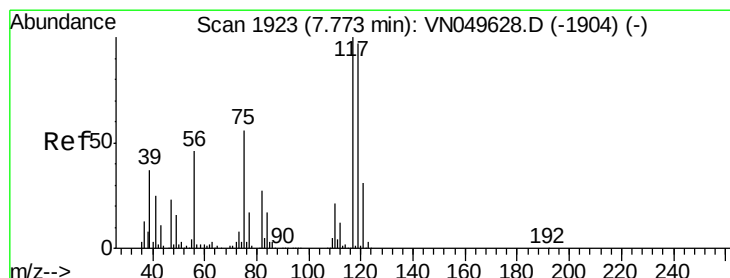
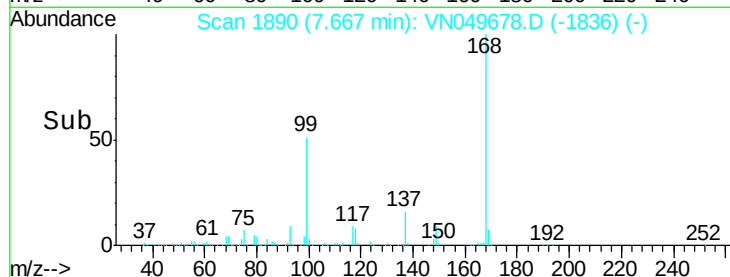
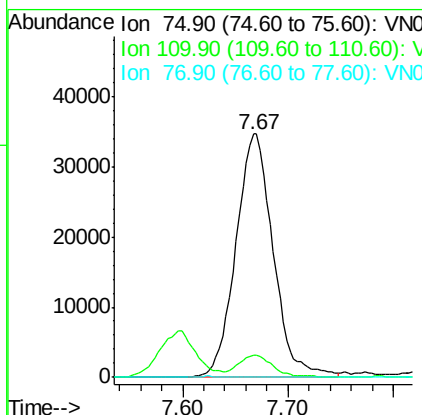
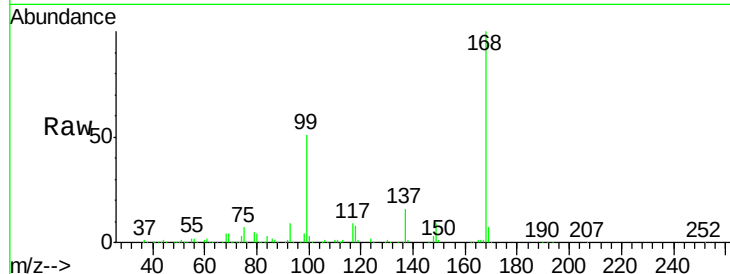




#36
 1,1-Dichloropropene
 Concen: 3.68 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN049678.D
 Acq: 2 Jul 2018 19:03

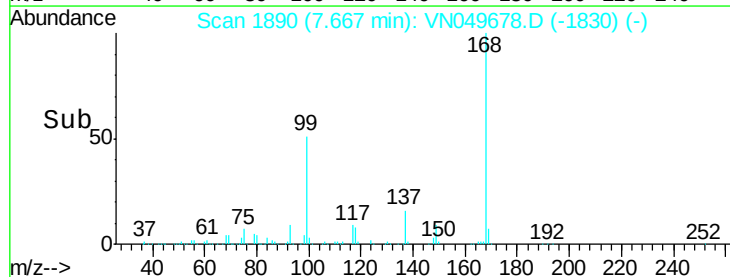
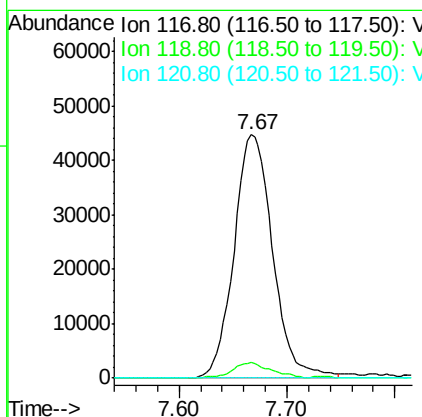
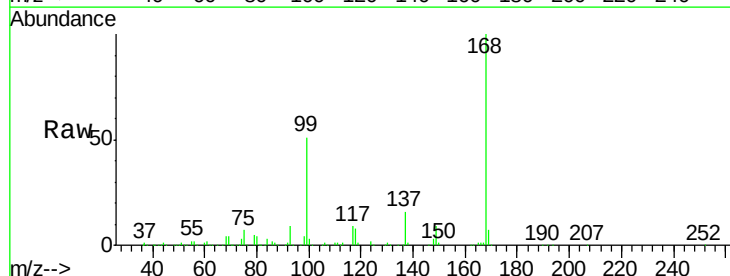
Instrument :
 MSVOA_N
 ClientSampleId :
 PB110744 ZHE#05

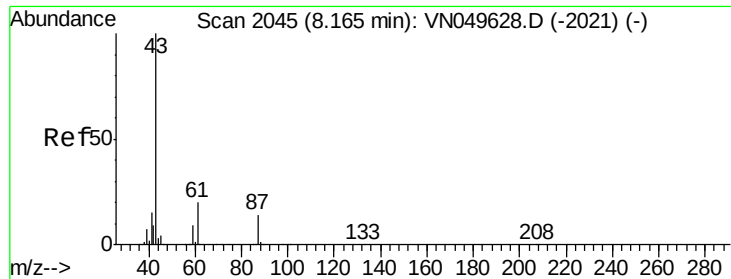
Tot Ion	Ratio	Lower	Upper
75	100		
110	8.7	18.1	54.4#
77	0.0	24.9	37.3#



#38
 Carbon Tetrachloride
 Concen: 4.96 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.11 min
 Lab File: VN049678.D
 Acq: 2 Jul 2018 19:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.4	77.2	115.8#
121	0.0	25.0	37.6#





#43

Isopropyl Acetate

Concen: 30.25 ug/l

RT: 8.29 min Scan# 2084

Delta R.T. 0.13 min

Lab File: VN049678.D

Acq: 2 Jul 2018 19:03

Instrument :

MSVOA_N

ClientSampleId :

PB110744 ZHE#05

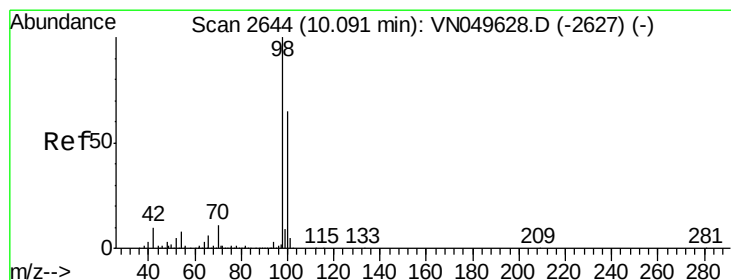
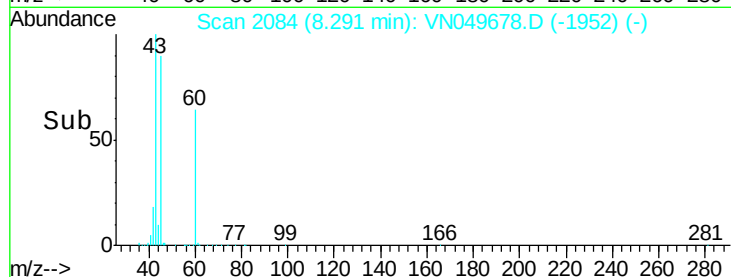
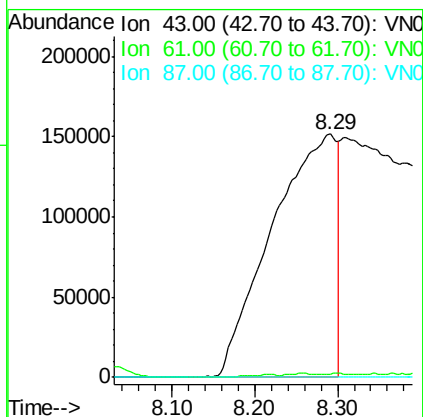
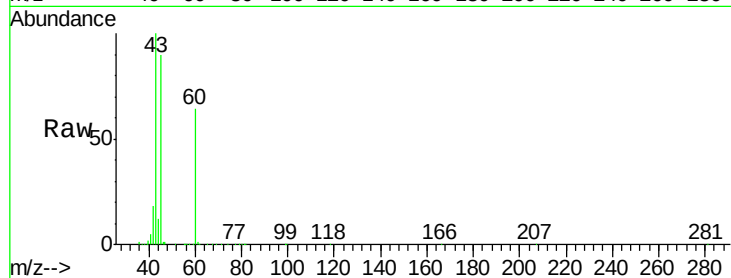
Tot Ion: 43 Resp: 817014

Ion Ratio Lower Upper

43 100

61 0.0 14.9 22.3#

87 0.0 10.0 15.0#



#50

Toluene-d8

Concen: 45.77 ug/l

RT: 10.09 min Scan# 2645

Delta R.T. 0.00 min

Lab File: VN049678.D

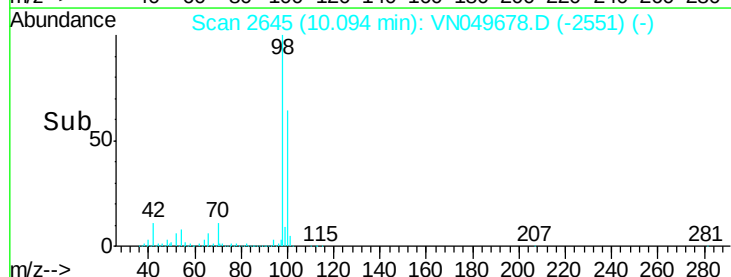
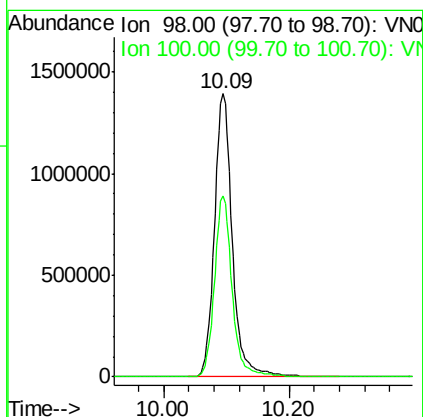
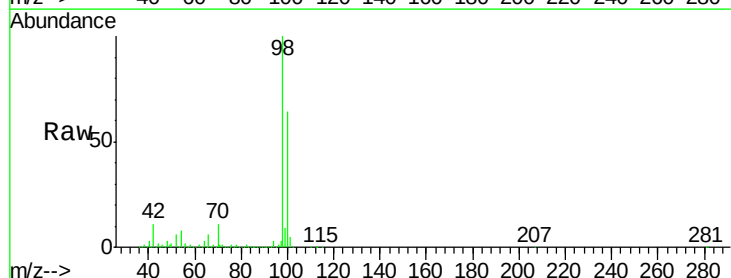
Acq: 2 Jul 2018 19:03

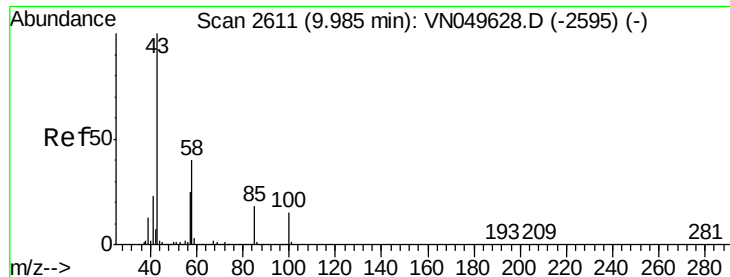
Tgt Ion: 98 Resp: 2755593

Ion Ratio Lower Upper

98 100

100 63.2 51.7 77.5

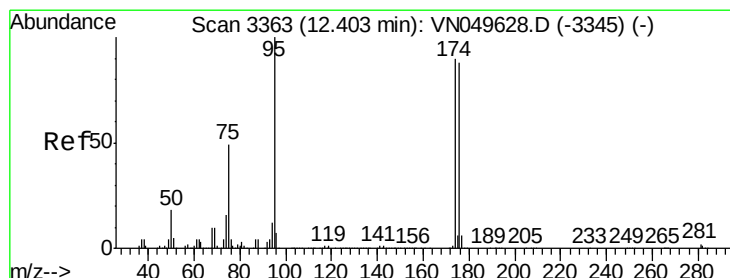
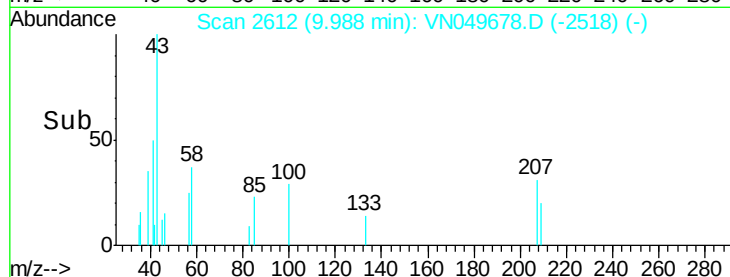
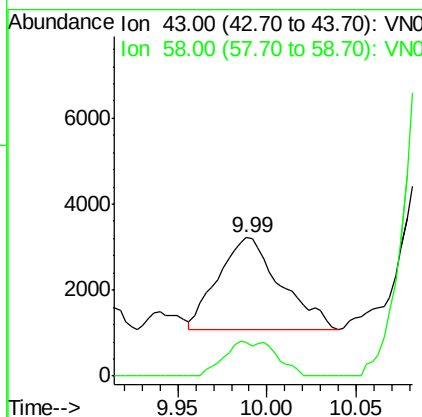
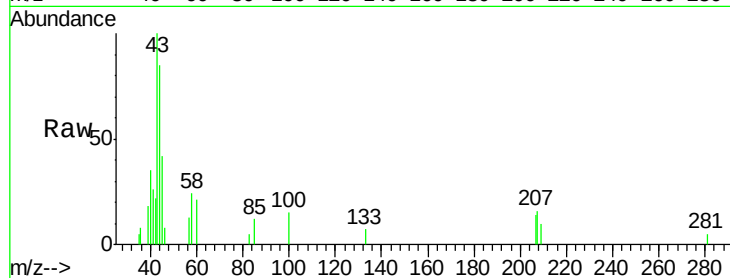




#51
 4-Methyl-2-Pentanone
 Concen: 0.40 ug/l
 RT: 9.99 min Scan# 2612
 Delta R.T. 0.00 min
 Lab File: VN049678.D
 Acq: 2 Jul 2018 19:03

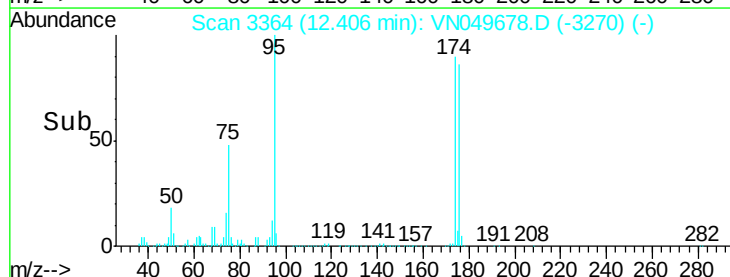
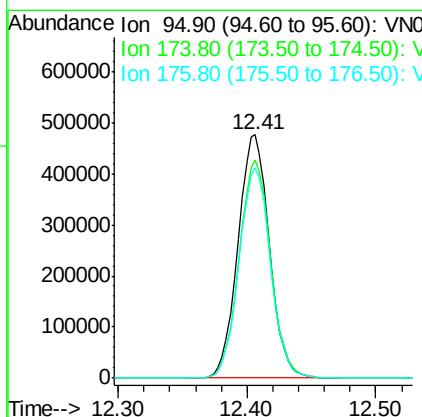
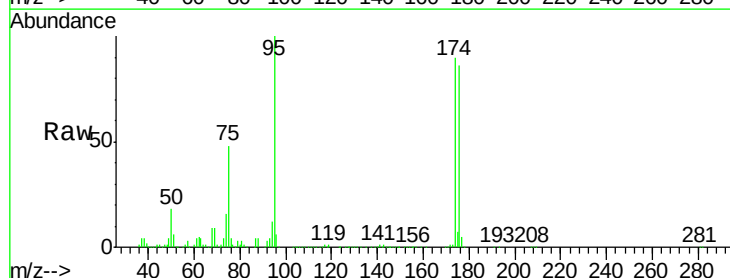
Instrument :
 MSVOA_N
 ClientSampleId :
 PB110744 ZHE#05

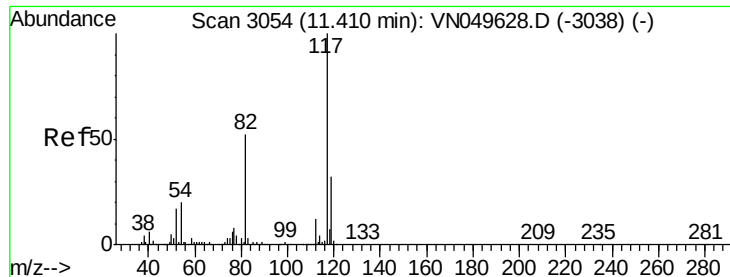
Tot Ion: 43 Resp: 5231
 Ion Ratio Lower Upper
 43 100
 58 17.4 31.8 47.8#



#62
 4-Bromofluorobenzene
 Concen: 39.15 ug/l
 RT: 12.41 min Scan# 3364
 Delta R.T. 0.00 min
 Lab File: VN049678.D
 Acq: 2 Jul 2018 19:03

Tgt Ion: 95 Resp: 804728
 Ion Ratio Lower Upper
 95 100
 174 90.5 0.0 179.6
 176 86.5 0.0 174.0

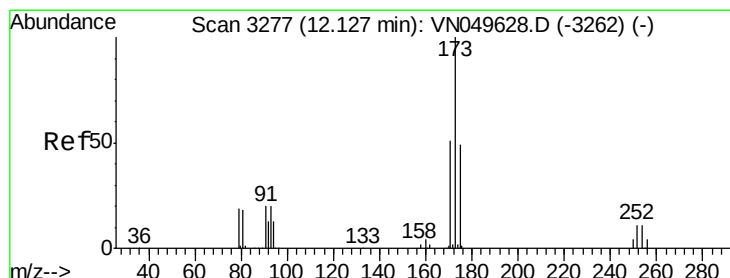
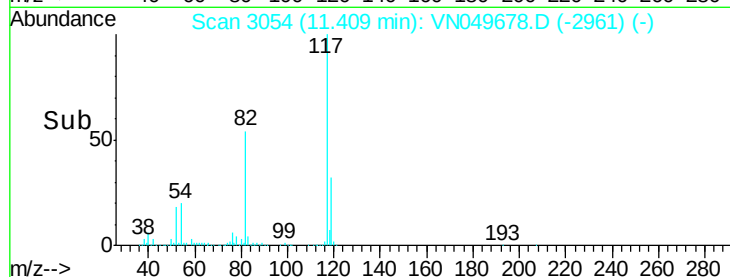
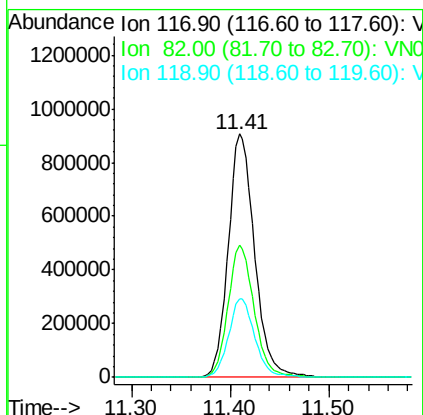
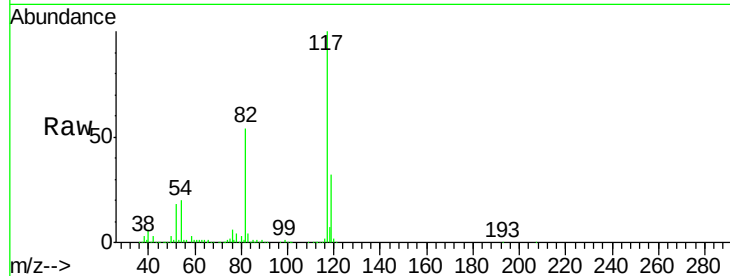




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN049678.D
Acq: 2 Jul 2018 19:03

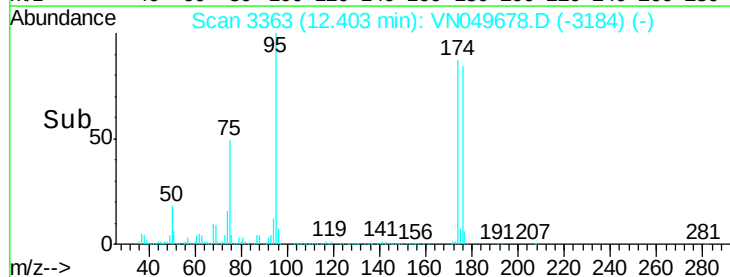
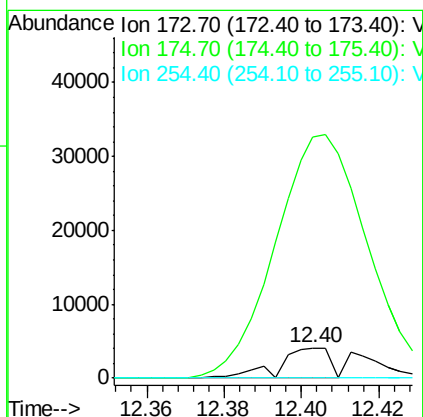
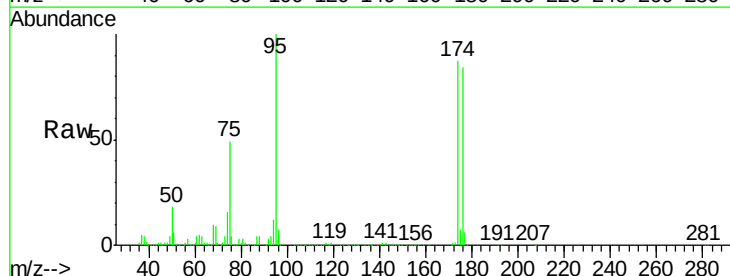
Instrument :
MSVOA_N
ClientSampleId :
PB110744 ZHE#05

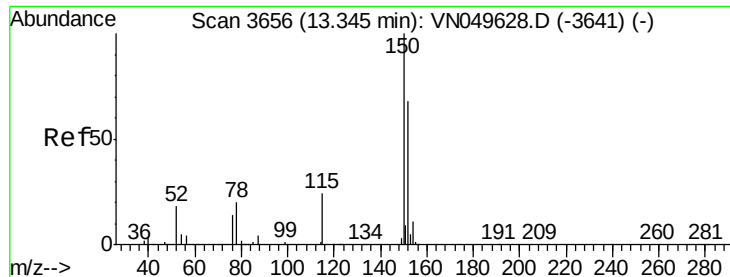
Tot Ion:117 Resp: 1692343
Ion Ratio Lower Upper
117 100
82 54.0 41.9 62.9
119 32.4 25.4 38.2



#71
Bromoform
Concen: 0.34 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.28 min
Lab File: VN049678.D
Acq: 2 Jul 2018 19:03

Tgt Ion:173 Resp: 3615
Ion Ratio Lower Upper
173 100
175 1190.3 24.6 73.8#
254 0.0 0.2 0.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3657

Delta R.T. 0.00 min

Lab File: VN049678.D

Acq: 2 Jul 2018 19:03

Instrument :

MSVOA_N

ClientSampleId :

PB110744 ZHE#05

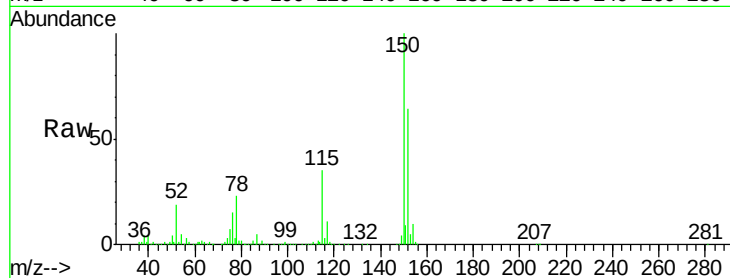
Tot Ion:152 Resp: 659799

Ion Ratio Lower Upper

152 100

115 55.3 28.1 84.2

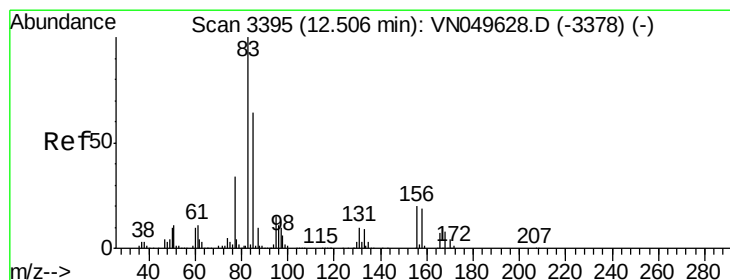
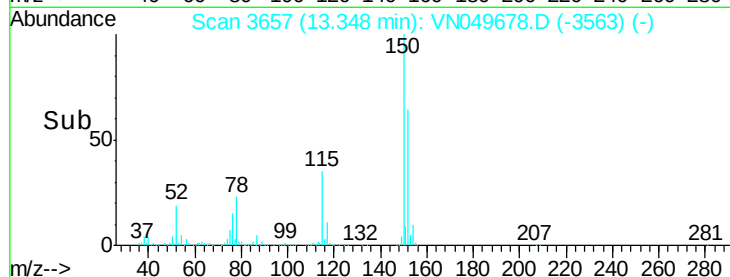
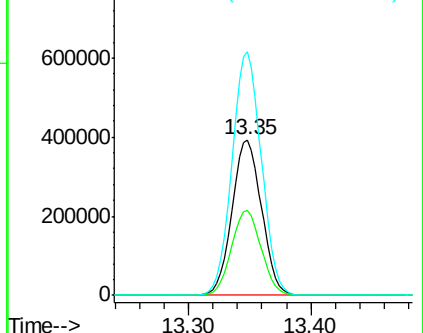
150 155.9 0.0 347.6



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



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.52 min Scan# 3398

Delta R.T. 0.01 min

Lab File: VN049678.D

Acq: 2 Jul 2018 19:03

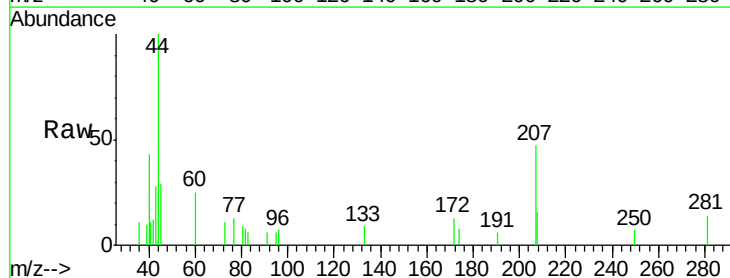
Tgt Ion: 83 Resp: 30

Ion Ratio Lower Upper

83 100

131 0.0 5.2 15.6#

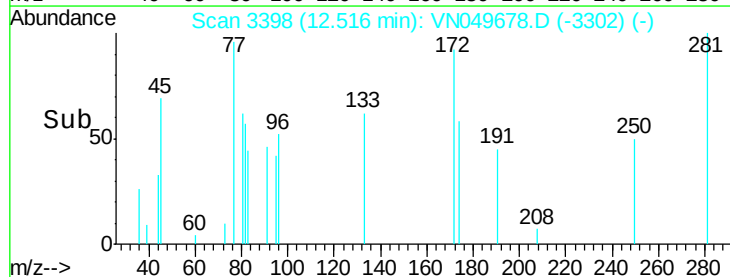
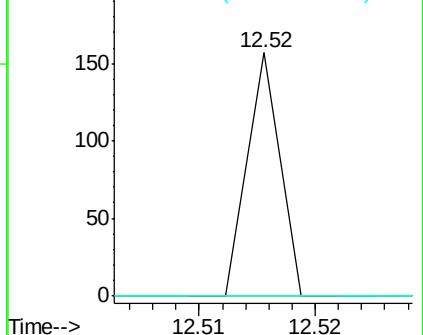
85 0.0 32.5 97.4#

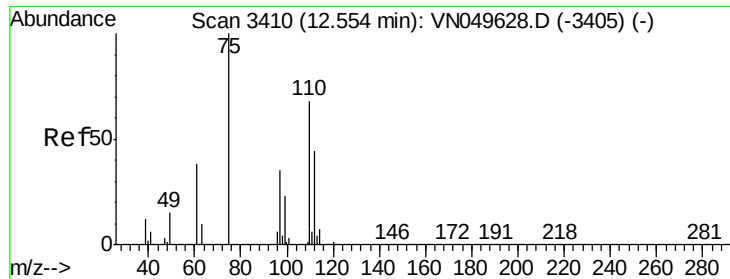


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 36.81 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN049678.D

Acq: 2 Jul 2018 19:03

Instrument :

MSVOA_N

ClientSampleId :

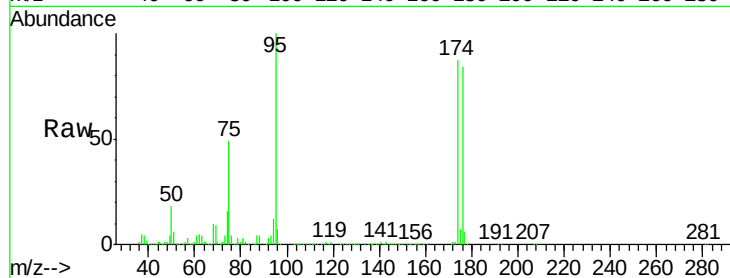
PB110744 ZHE#05

Tot Ion: 75 Resp: 389499

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO

12.40

250000

200000

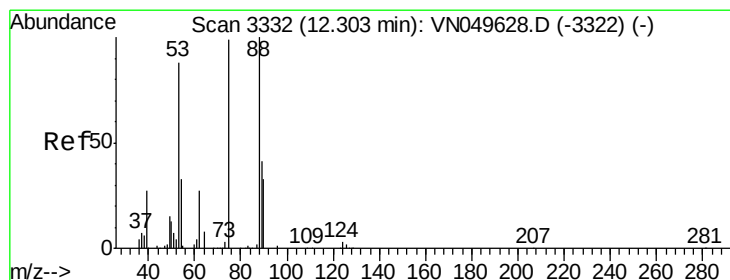
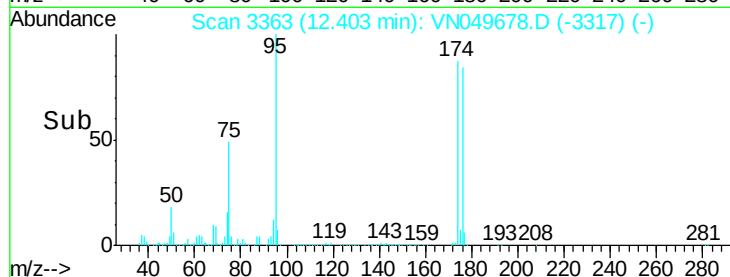
150000

100000

50000

0

Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 125.02 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049678.D

Acq: 2 Jul 2018 19:03

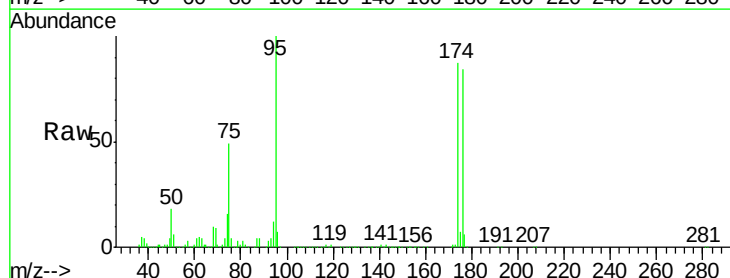
Tgt Ion: 75 Resp: 389499

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

89 0.0 35.9 53.9#



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

300000

250000

200000

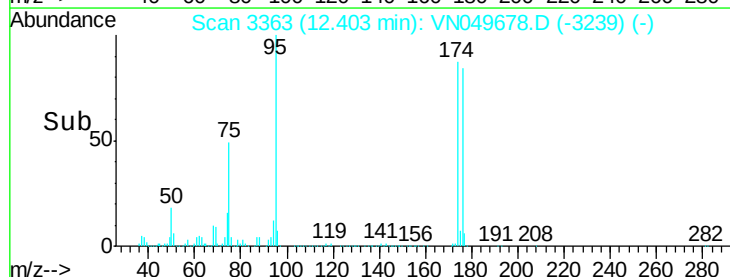
150000

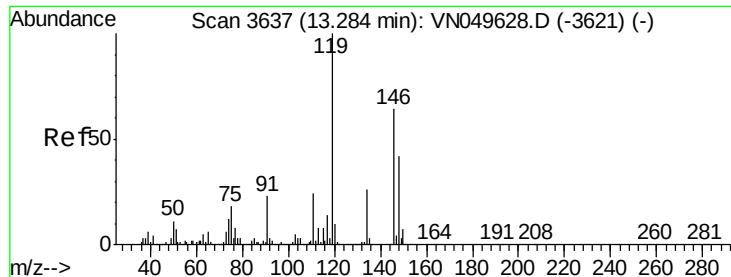
100000

50000

0

Time-->

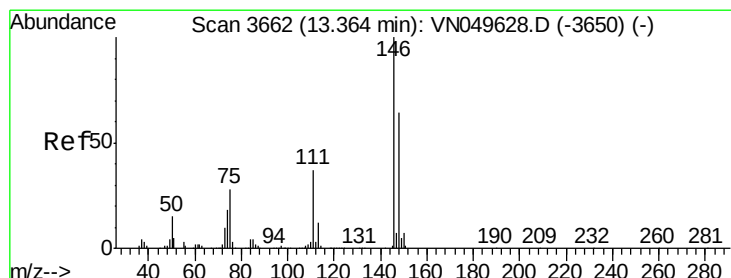
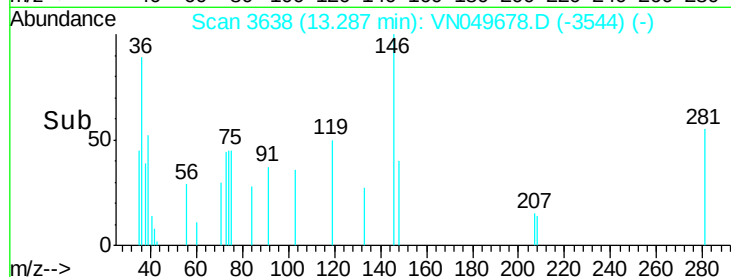
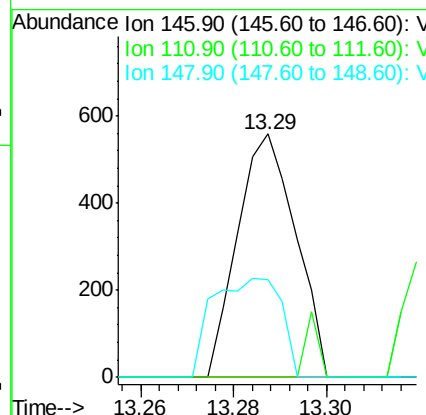
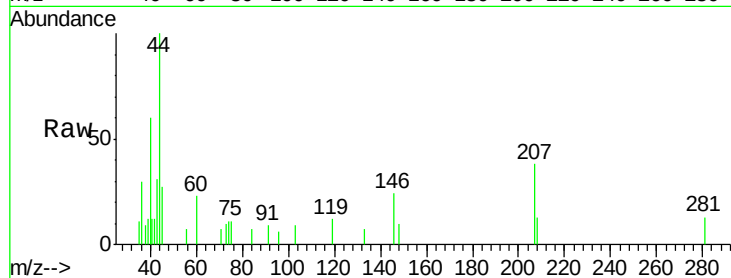




#87
 1,3-Dichlorobenzene
 Concen: Below Cal
 RT: 13.29 min Scan# 3638
 Delta R.T. 0.00 min
 Lab File: VN049678.D
 Acq: 2 Jul 2018 19:03

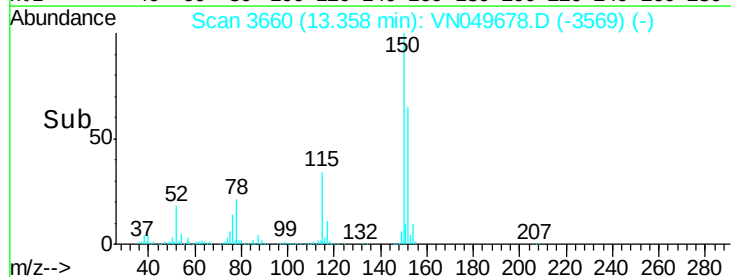
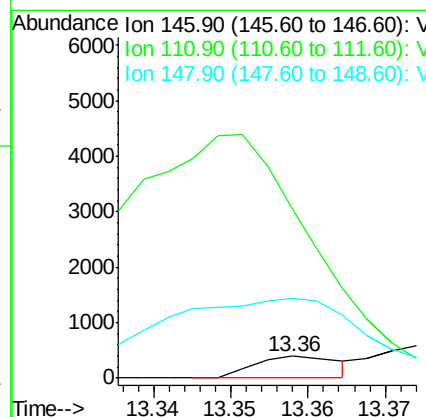
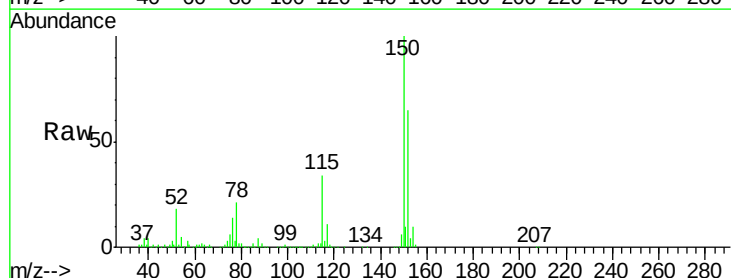
Instrument :
 MSVOA_N
 ClientSampled :
 PB110744 ZHE#05

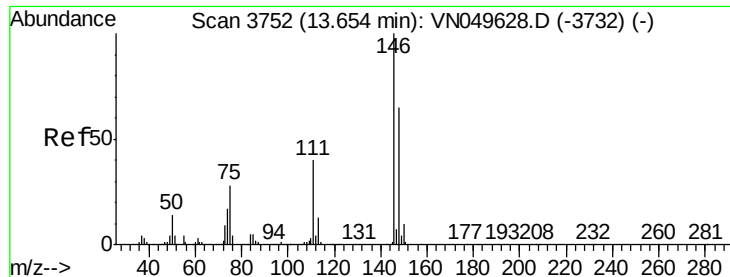
Tot Ion:146 Resp: 487
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.0 57.0#
 148 47.6 32.5 97.5



#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.36 min Scan# 3660
 Delta R.T. -0.01 min
 Lab File: VN049678.D
 Acq: 2 Jul 2018 19:03

Tgt Ion:146 Resp: 300
 Ion Ratio Lower Upper
 146 100
 111 2686.7 18.9 56.5#
 148 953.0 32.1 96.3#

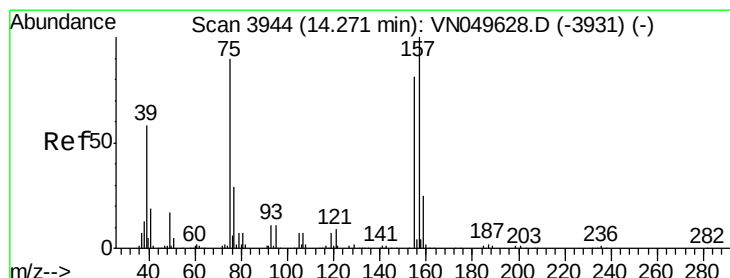
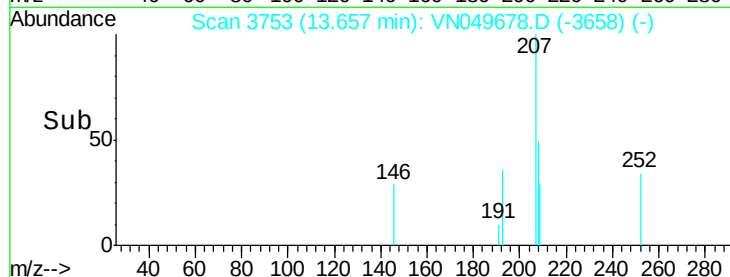
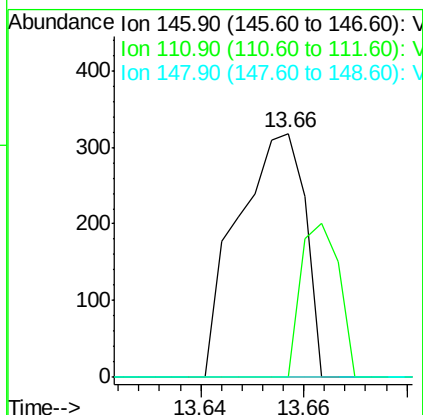
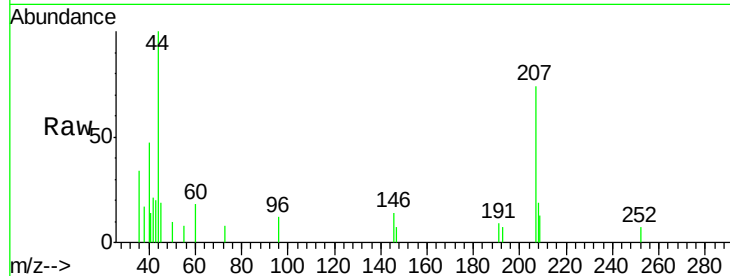




#91
 1,2-Dichlorobenzene
 Concen: Below Cal
 RT: 13.66 min Scan# 3753
 Delta R.T. 0.00 min
 Lab File: VN049678.D
 Acq: 2 Jul 2018 19:03

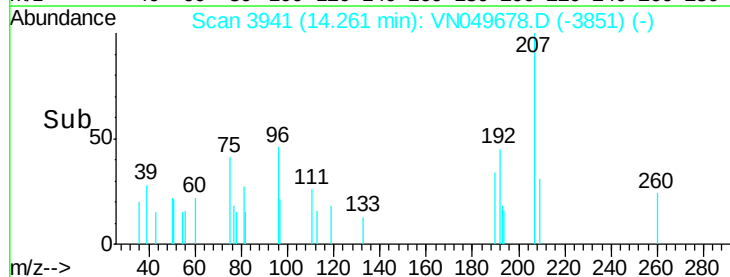
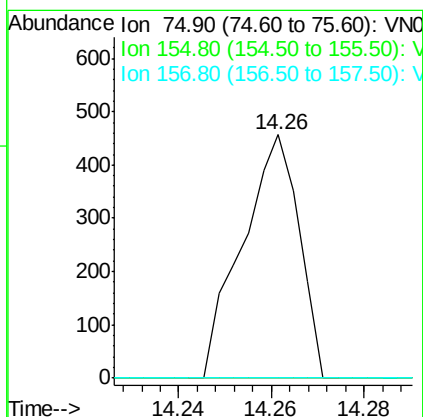
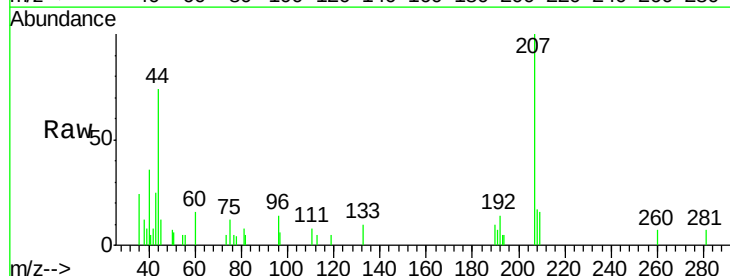
Instrument :
 MSVOA_N
 ClientSampleId :
 PB110744 ZHE#05

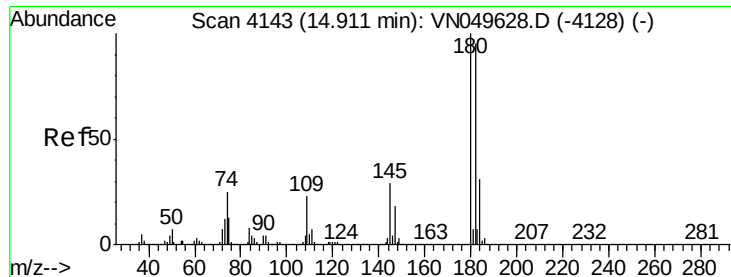
Tot Ion:146 Resp: 288
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.7 59.1#
 148 0.0 32.0 96.2#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.26 min Scan# 3941
 Delta R.T. -0.01 min
 Lab File: VN049678.D
 Acq: 2 Jul 2018 19:03

Tgt Ion: 75 Resp: 390
 Ion Ratio Lower Upper
 75 100
 155 0.0 45.7 137.1#
 157 0.0 56.9 170.7#

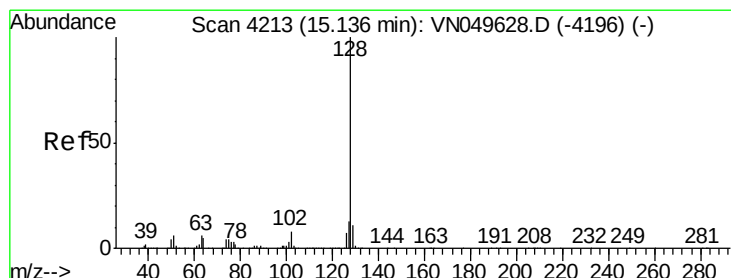
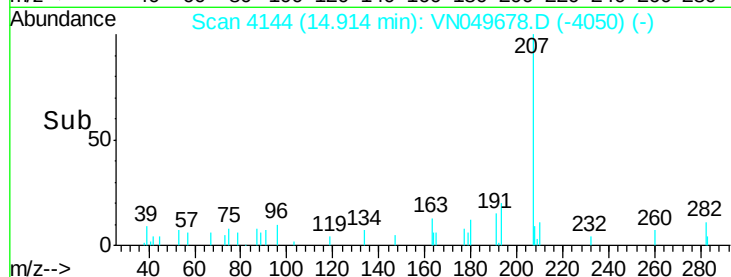
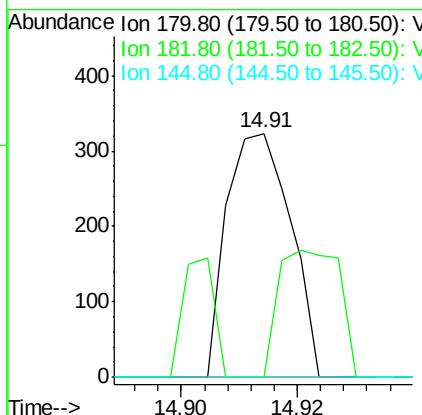
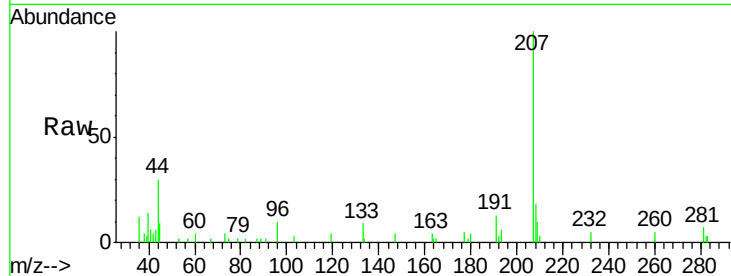




#93
 1,2,4-Trichlorobenzene
 Concen: 2.42 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN049678.D
 Acq: 2 Jul 2018 19:03

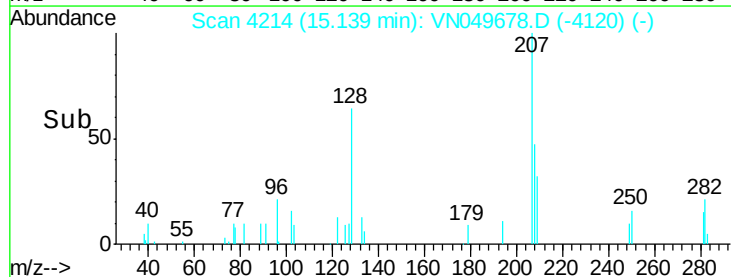
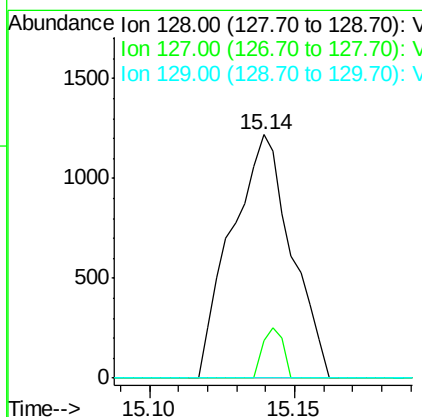
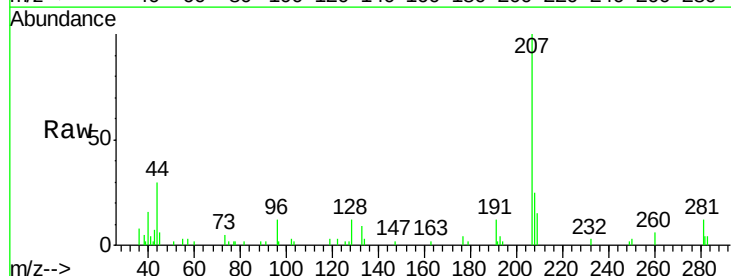
Instrument :
 MSVOA_N
 ClientSampleId :
 PB110744 ZHE#05

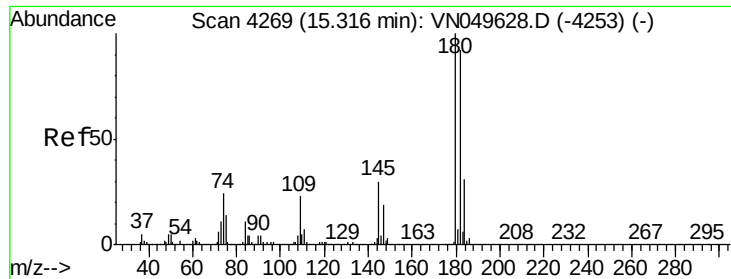
Tot Ion:180 Resp: 246
 Ion Ratio Lower Upper
 180 100
 182 50.4 47.3 141.9
 145 0.0 14.4 43.0#



#95
 Naphthalene
 Concen: 4.10 ug/l
 RT: 15.14 min Scan# 4214
 Delta R.T. 0.00 min
 Lab File: VN049678.D
 Acq: 2 Jul 2018 19:03

Tgt Ion:128 Resp: 1746
 Ion Ratio Lower Upper
 128 100
 127 7.0 10.4 15.6#
 129 0.0 8.6 13.0#





#96

1,2,3-Trichlorobenzene

Concen: 1.65 ua/l

RT: 15.31 min Scan# 4267

Delta R.T. -0.01 min

Lab File: VN049678.D

Acq: 2 Jul 2018 19:03

Instrument :

MSVOA_N

ClientSampleId :

PB110744 ZHE#05

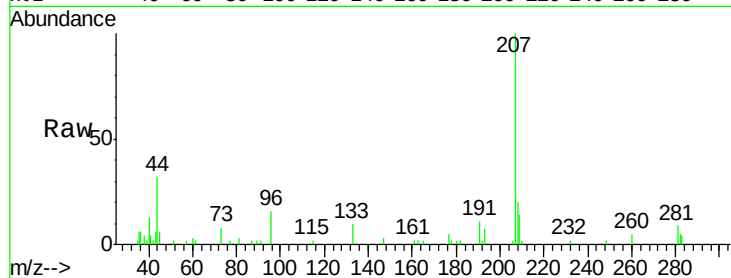
Tot Ion:180 Resp: 70

Ion Ratio Lower Upper

180 100

182 142.9 47.4 142.2#

145 102.9 15.2 45.6#



Abundance Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

