

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN070318\
 Data File : VN049705.D
 Acq On : 3 Jul 2018 20:15
 Operator : MD\SY
 Sample : PB110796ZHE#08
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jul 03 23:10:18 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	1238353	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	2016330	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1643085	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	607477	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	857561	52.44	ug/l	0.00
Spiked Amount			Recovery	=	104.88%	
35) Dibromofluoromethane	7.59	113	713202	47.31	ug/l	0.00
Spiked Amount			Recovery	=	94.62%	
50) Toluene-d8	10.09	98	2672538	45.29	ug/l	0.00
Spiked Amount			Recovery	=	90.58%	
62) 4-Bromofluorobenzene	12.40	95	758674	37.66	ug/l	0.00
Spiked Amount			Recovery	=	75.32%	

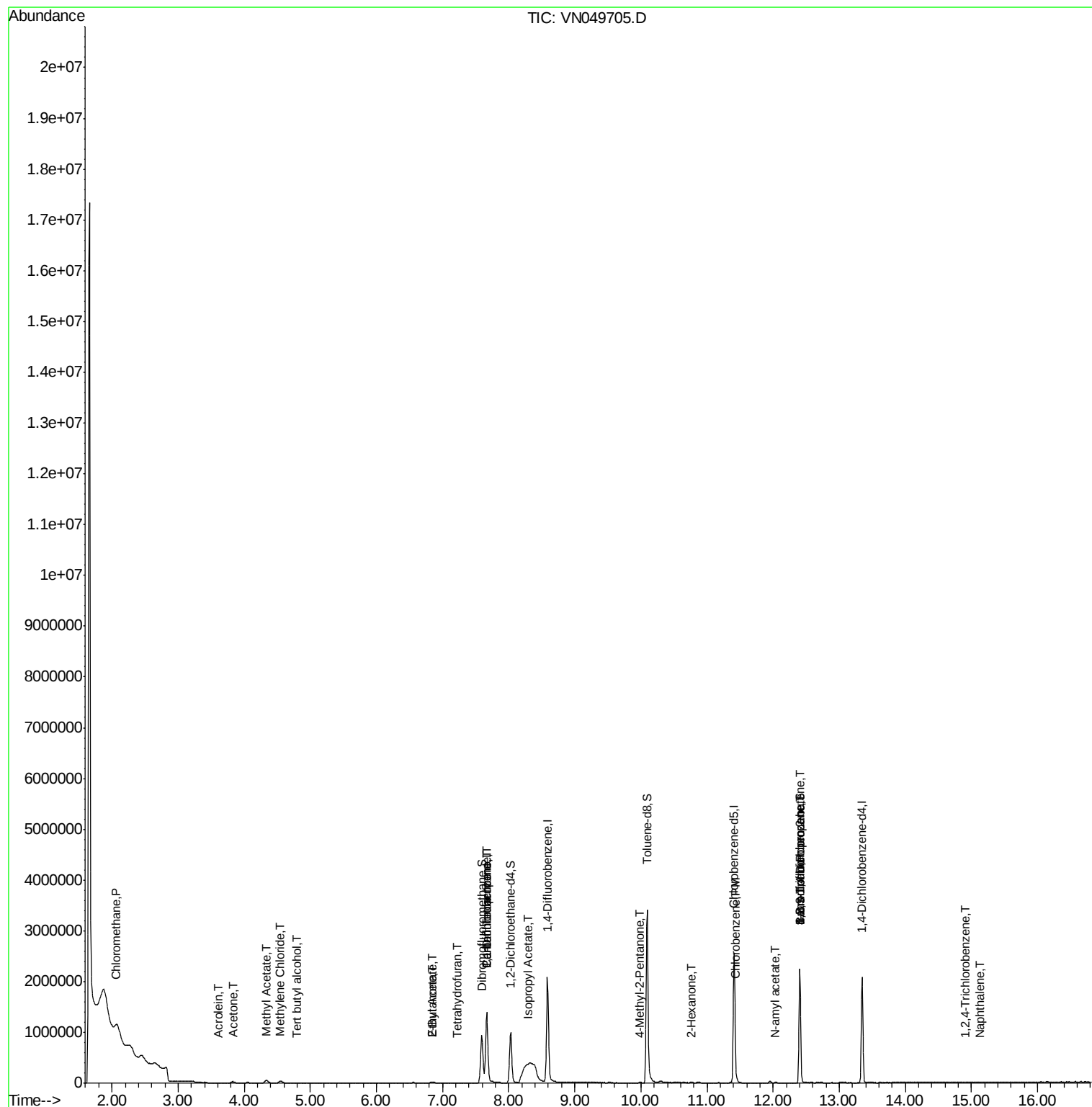
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	4540	0.26	ug/l	92
11) Tert butyl alcohol	4.80	59	500	0.53	ug/l #	72
13) Acrolein	3.60	56	908	1.04	ug/l	98
16) Acetone	3.82	43	41967	4.95	ug/l	94
17) Carbon Disulfide	4.04	76	5330	Below Cal		98
18) Methyl Acetate	4.33	43	103309	1.89	ug/l	99
20) Methylene Chloride	4.55	84	26891	1.60	ug/l #	89
25) 2-Butanone	6.85	43	21180	3.90	ug/l	96
29) Tetrahydrofuran	7.22	42	2125	0.61	ug/l #	65
36) 1,1-Dichloropropene	7.67	75	85087	3.75	ug/l #	48
37) Ethyl Acetate	6.85	43	21180	1.60	ug/l #	68
38) Carbon Tetrachloride	7.67	117	108064	4.90	ug/l #	17
43) Isopropyl Acetate	8.28	43	582389	21.84	ug/l #	63
51) 4-Methyl-2-Pentanone	9.99	43	3277	0.25	ug/l #	83
59) 2-Hexanone	10.76	43	8187	0.95	ug/l	92
65) Chlorobenzene	11.44	112	9410	0.22	ug/l	93
71) Bromoform	12.41	173	5475	0.53	ug/l #	1
74) N-amyl acetate	12.04	43	5279	0.40	ug/l #	44
75) 1,1,2,2-Tetrachloroethane	12.53	83	219	Below Cal	#	25
76) 1,2,3-Trichloropropane	12.40	75	374777	38.47	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	374777	130.65	ug/l #	13
87) 1,3-Dichlorobenzene	13.28	146	224	Below Cal	#	25
88) 1,4-Dichlorobenzene	13.36	146	265	Below Cal	#	1
92) 1,2-Dibromo-3-Chloropropan	14.27	75	193	Below Cal	#	1
93) 1,2,4-Trichlorobenzene	14.91	180	33	2.41	ug/l #	13
95) Naphthalene	15.14	128	597	4.06	ug/l #	69

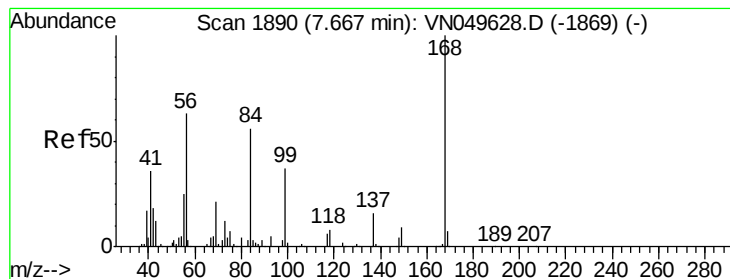
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN070318\
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Quant Title : SW846 8260
QLast Update : Sat Jun 30 00:55:30 2018
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049705.D

Acq: 3 Jul 2018 20:15

Instrument :

MSVOA_N

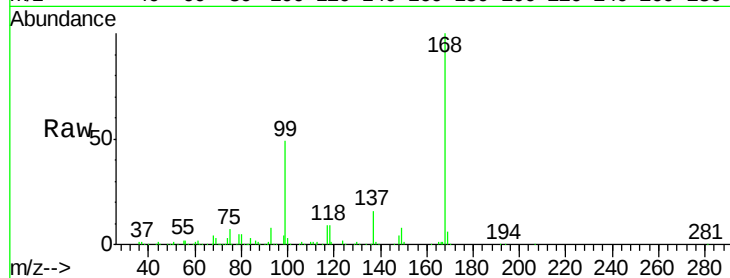
ClientSampleId :

Tot Ion:168 Resp: 1238353

Ion Ratio Lower Upper

168 100

99 49.5 40.6 61.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

500000

400000

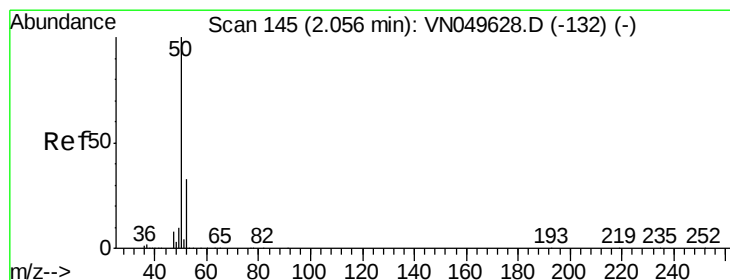
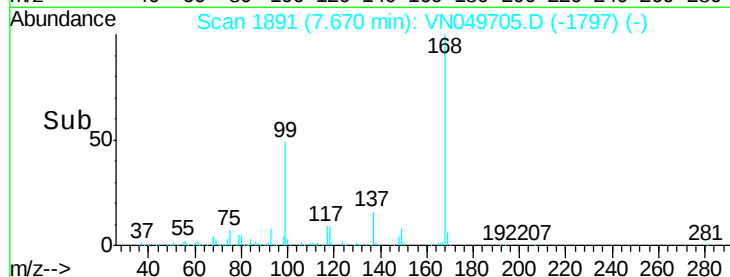
300000

200000

100000

0

Time-->



#3

Chloromethane

Concen: 0.26 ug/l

RT: 2.06 min Scan# 145

Delta R.T. 0.00 min

Lab File: VN049705.D

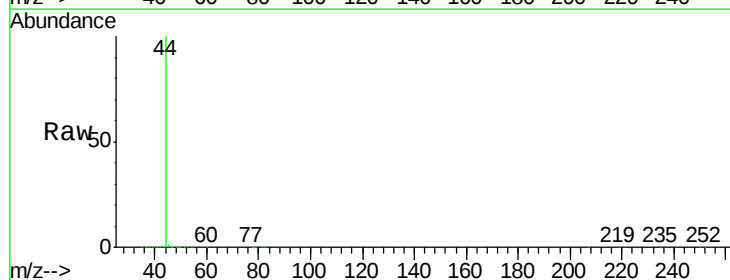
Acq: 3 Jul 2018 20:15

Tgt Ion: 50 Resp: 4540

Ion Ratio Lower Upper

50 100

52 37.3 26.1 39.1



Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0

2.06

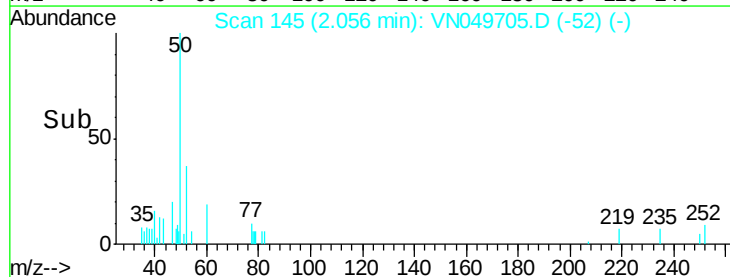
3000

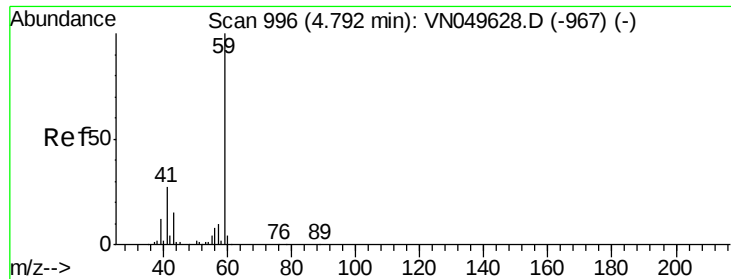
2000

1000

0

Time-->



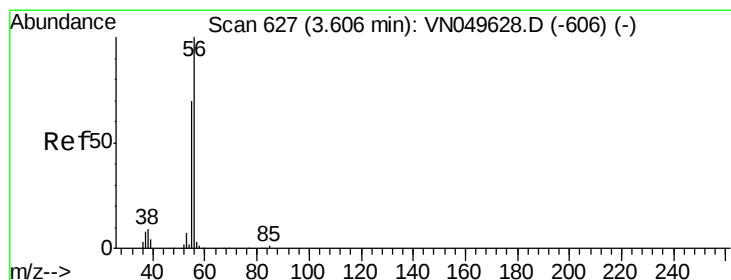
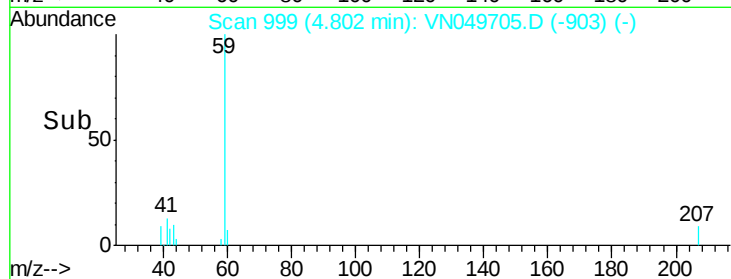
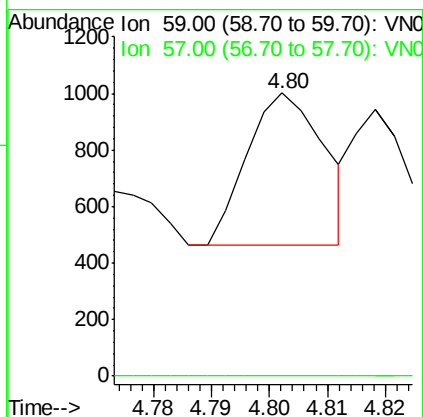
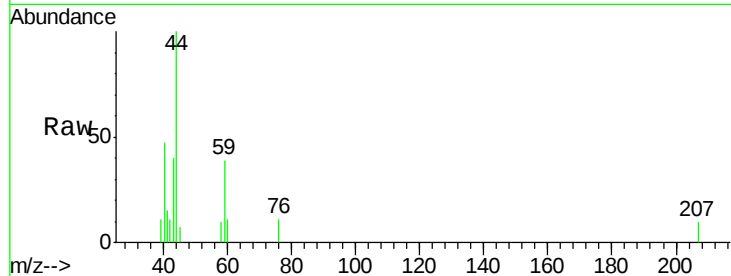


#11

Tert butyl alcohol
 Concen: 0.53 ug/l
 RT: 4.80 min Scan# 999
 Delta R.T. 0.01 min
 Lab File: VN049705.D
 Acq: 3 Jul 2018 20:15

Instrument :
 MSVOA_N
 ClientSampled :

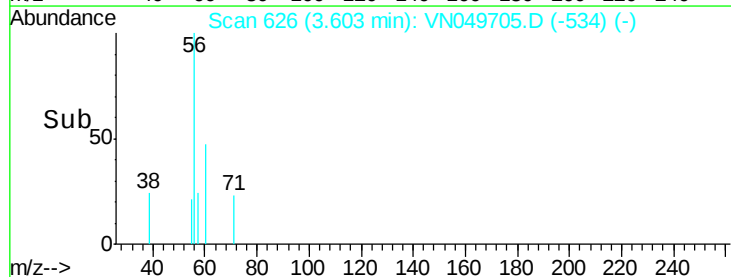
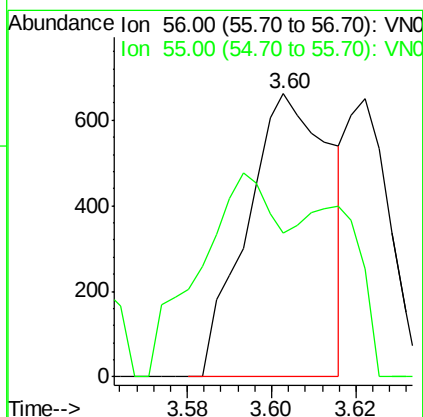
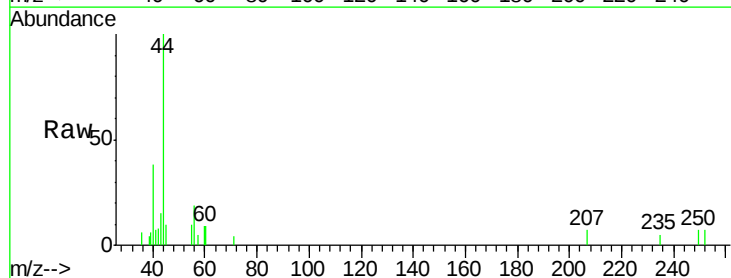
Tot Ion: 59 Resp: 500
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.5 12.7#

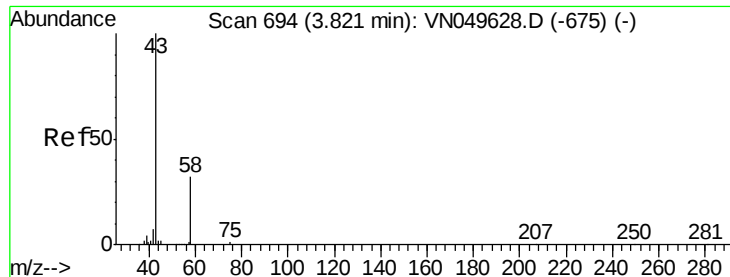


#13

Acrolein
 Concen: 1.04 ug/l
 RT: 3.60 min Scan# 626
 Delta R.T. -0.00 min
 Lab File: VN049705.D
 Acq: 3 Jul 2018 20:15

Tgt Ion: 56 Resp: 908
 Ion Ratio Lower Upper
 56 100
 55 68.3 55.8 83.8





#16

Acetone

Concen: 4.95 ug/l

RT: 3.82 min Scan# 694

Delta R.T. 0.00 min

Lab File: VN049705.D

Acq: 3 Jul 2018 20:15

Instrument :

MSVOA_N

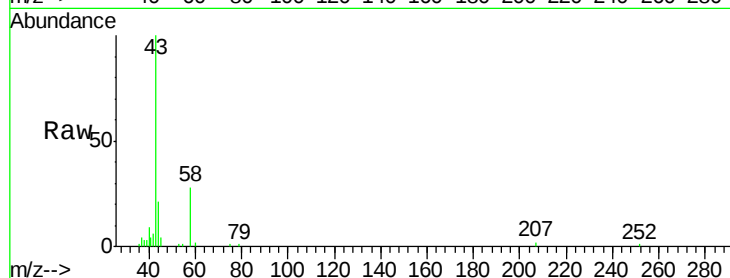
ClientSampleId :

Tot Ion: 43 Resp: 41967

Ion Ratio Lower Upper

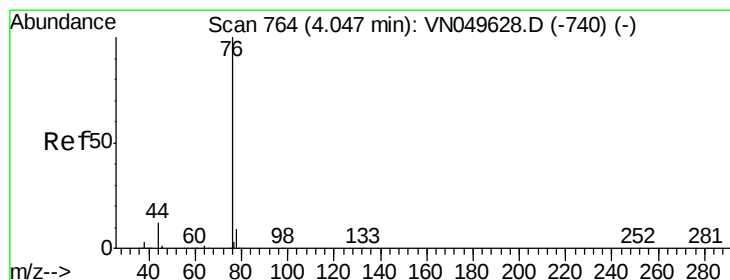
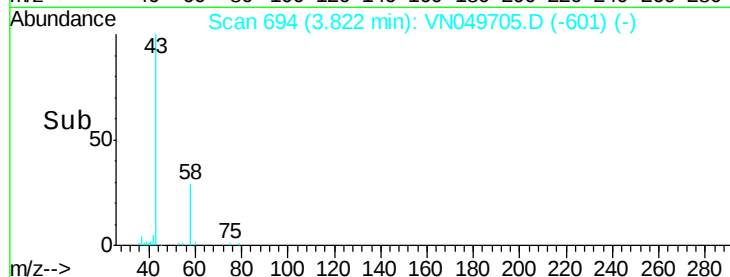
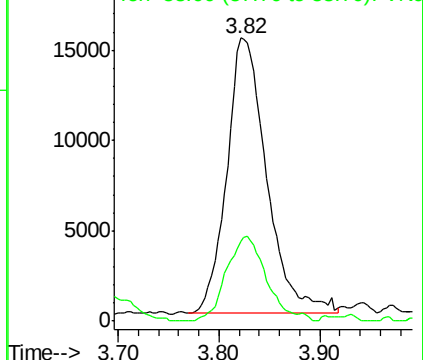
43 100

58 28.9 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: 4.04 min Scan# 762

Delta R.T. -0.01 min

Lab File: VN049705.D

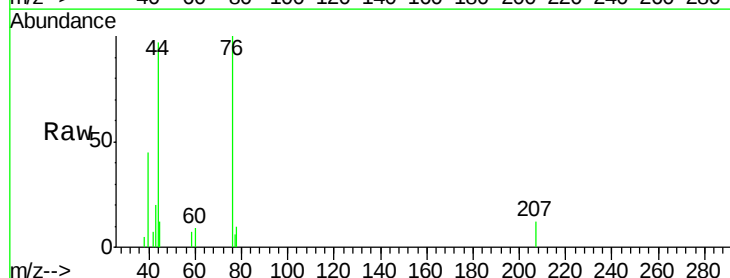
Acq: 3 Jul 2018 20:15

Tgt Ion: 76 Resp: 5330

Ion Ratio Lower Upper

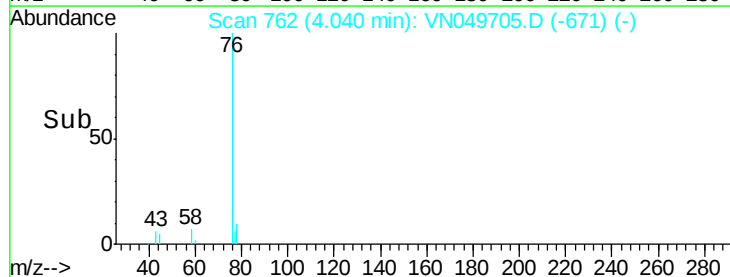
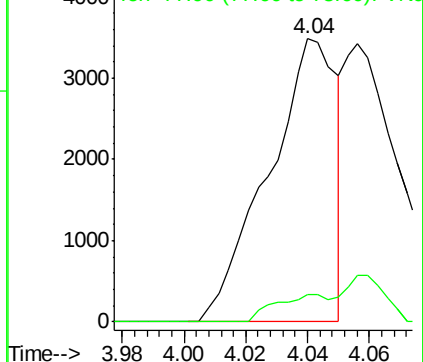
76 100

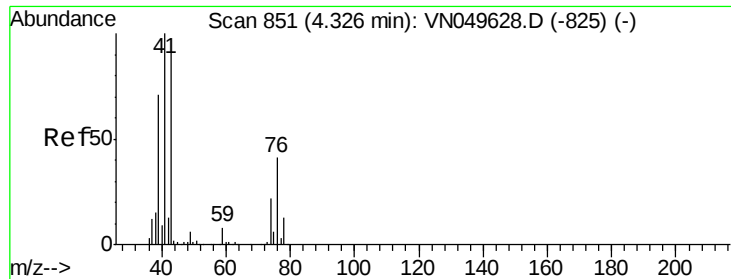
78 9.6 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

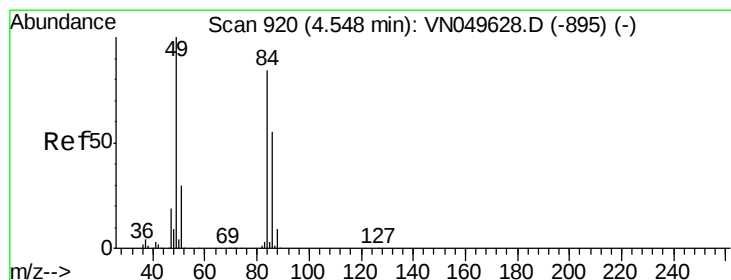
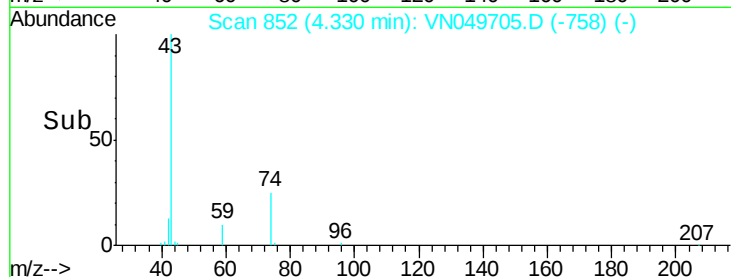
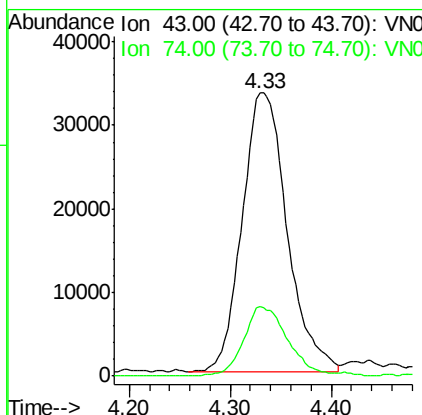
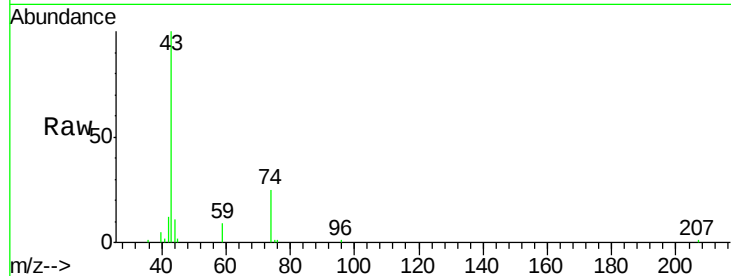




#18
Methvl Acetate
Concen: 1.89 ug/l
RT: 4.33 min Scan# 852
Delta R.T. 0.00 min
Lab File: VN049705.D
Acq: 3 Jul 2018 20:15

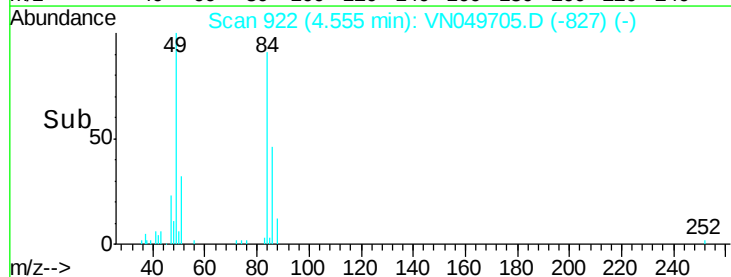
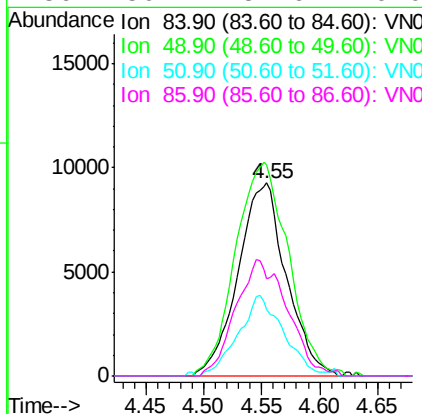
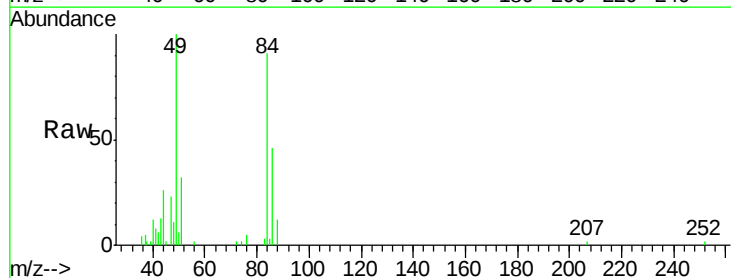
Instrument :
MSVOA_N
ClientSampled :

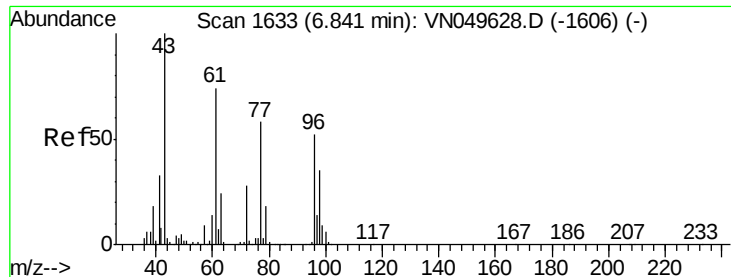
Tot Ion: 43 Resp: 103309
Ion Ratio Lower Upper
43 100
74 24.5 19.8 29.8



#20
Methylene Chloride
Concen: 1.60 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.01 min
Lab File: VN049705.D
Acq: 3 Jul 2018 20:15

Tgt Ion: 84 Resp: 26891
Ion Ratio Lower Upper
84 100
49 109.3 95.4 143.2
51 34.9 28.4 42.6
86 50.4 52.6 79.0#

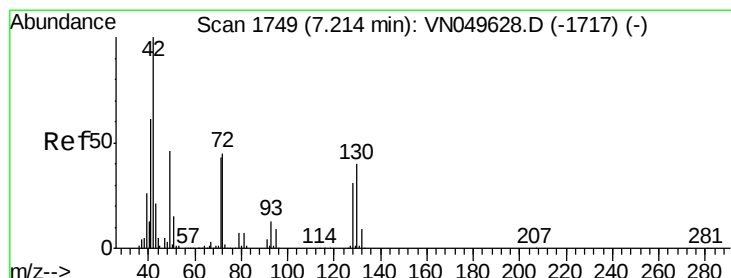
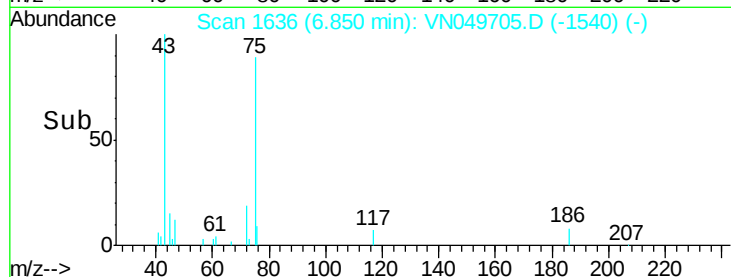
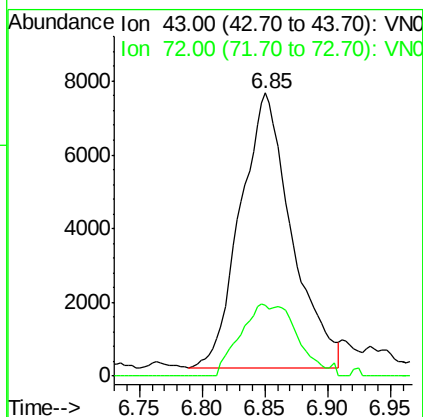
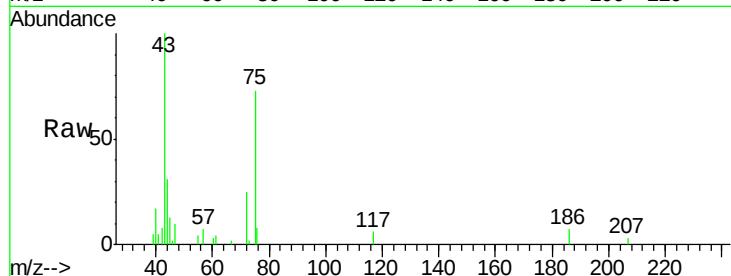




#25
2-Butanone
Concen: 3.90 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN049705.D
Acq: 3 Jul 2018 20:15

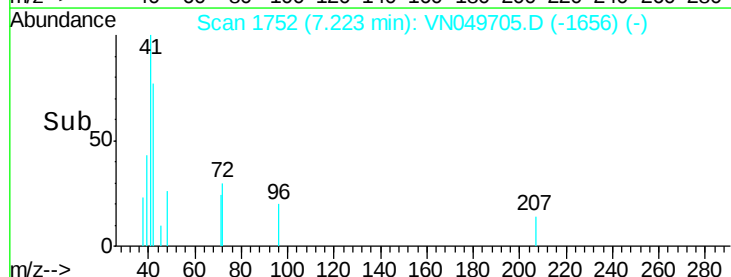
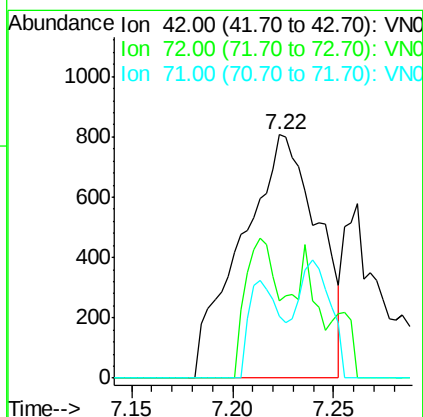
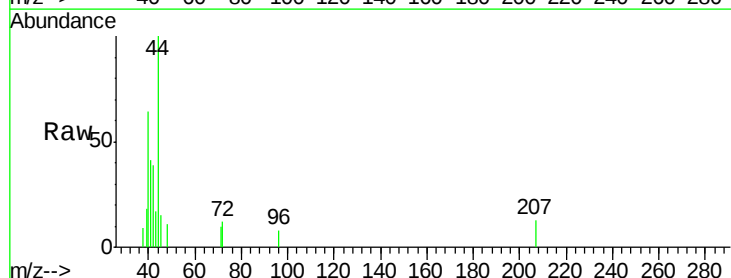
Instrument :
MSVOA_N
ClientSampled :

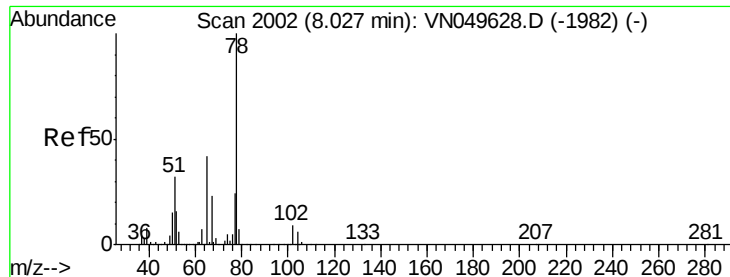
Tot Ion: 43 Resp: 21180
Ion Ratio Lower Upper
43 100
72 25.6 22.1 33.1



#29
Tetrahydrofuran
Concen: 0.61 ug/l
RT: 7.22 min Scan# 1752
Delta R.T. 0.01 min
Lab File: VN049705.D
Acq: 3 Jul 2018 20:15

Tgt Ion: 42 Resp: 2125
Ion Ratio Lower Upper
42 100
72 25.2 35.6 53.4#
71 16.1 34.0 51.0#

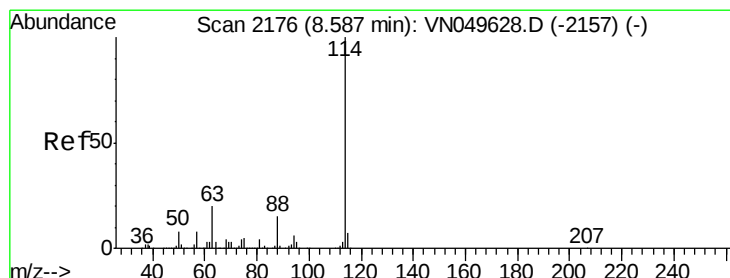
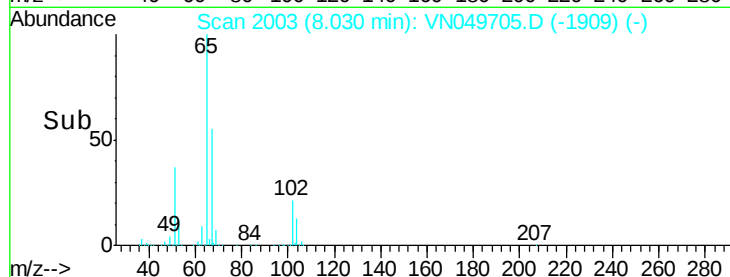
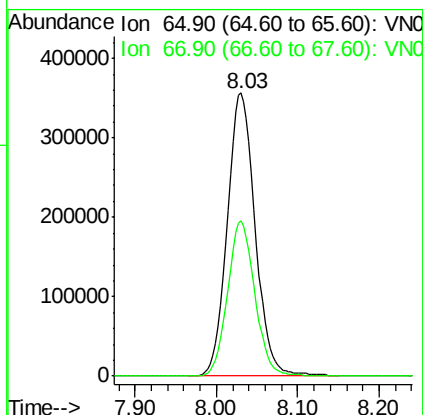
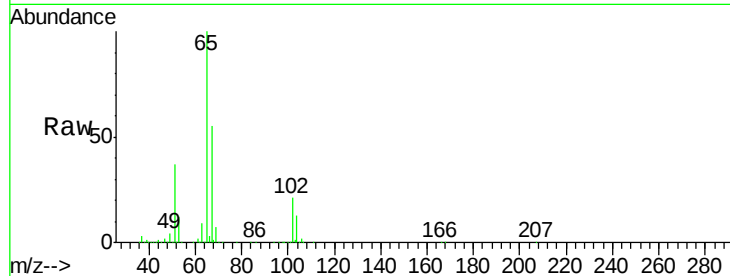




#33
 1,2-Dichloroethane-d4
 Concen: 52.44 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049705.D
 Acq: 3 Jul 2018 20:15

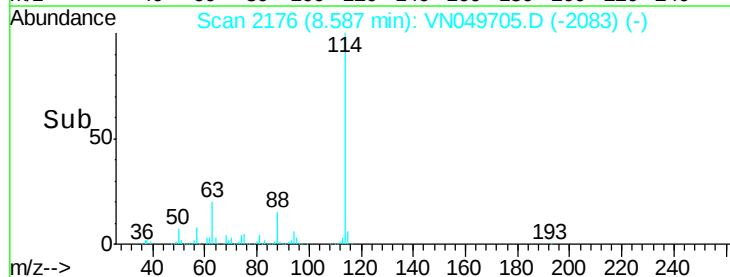
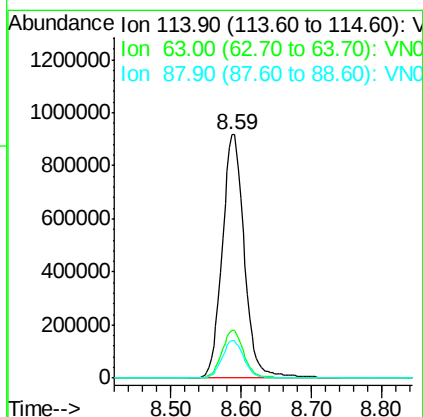
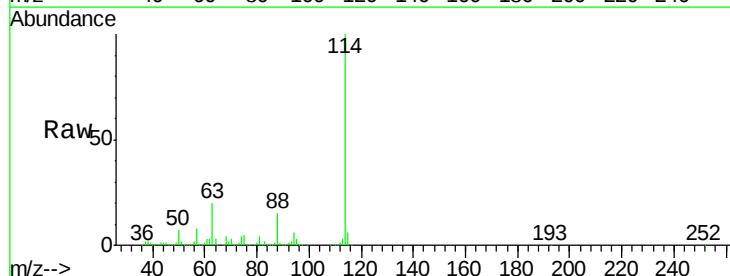
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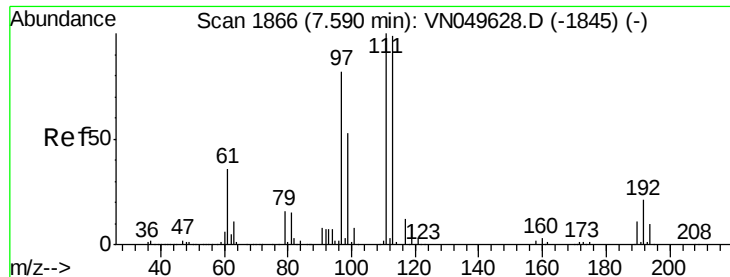
Tot Ion: 65 Resp: 857561
 Ion Ratio Lower Upper
 65 100
 67 53.5 0.0 107.2



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN049705.D
 Acq: 3 Jul 2018 20:15

Tgt Ion: 114 Resp: 2016330
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 39.8
 88 15.5 0.0 30.6

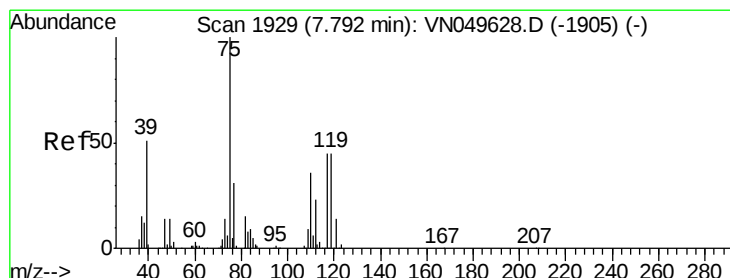
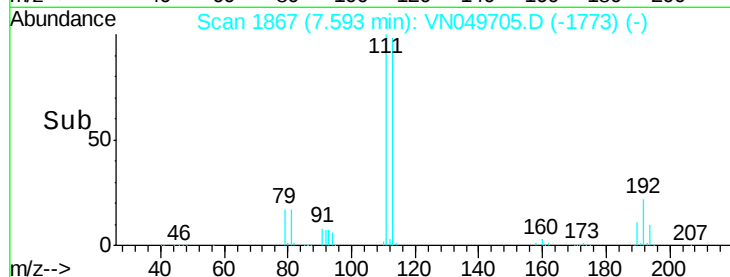
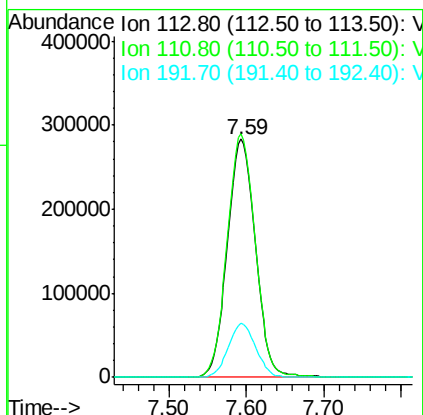
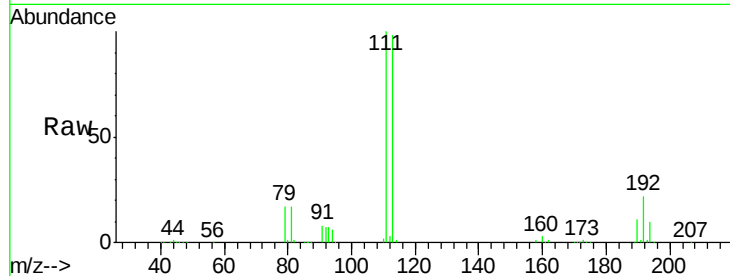




#35
 Dibromofluoromethane
 Concen: 47.31 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN049705.D
 Acq: 3 Jul 2018 20:15

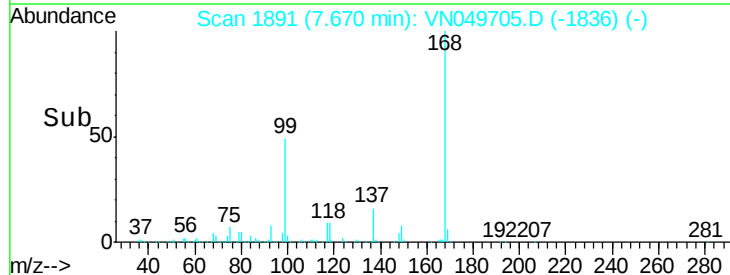
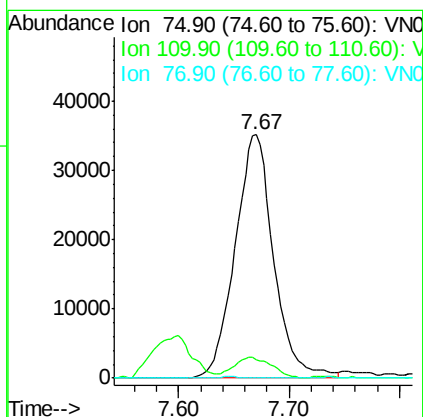
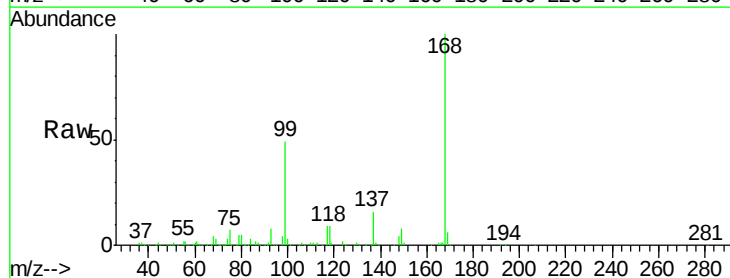
Instrument :
 MSVOA_N
 ClientSampleId :

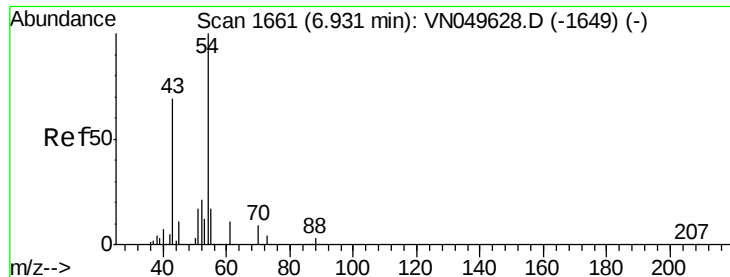
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.2	81.8	122.8
192	22.3	17.8	26.6



#36
 1,1-Dichloropropene
 Concen: 3.75 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. -0.12 min
 Lab File: VN049705.D
 Acq: 3 Jul 2018 20:15

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	18.1	54.4#
77	0.0	24.9	37.3#

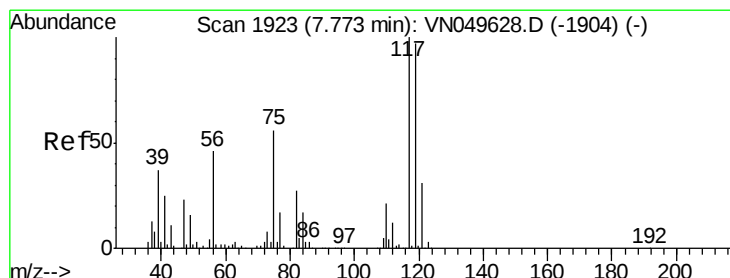
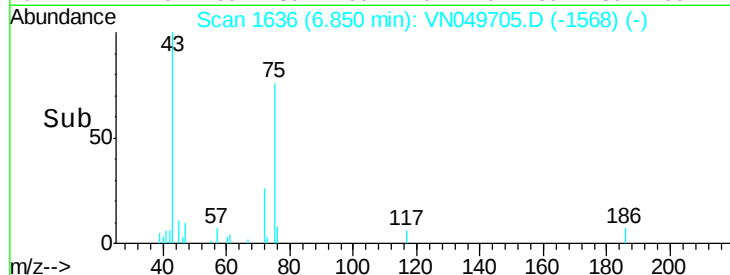
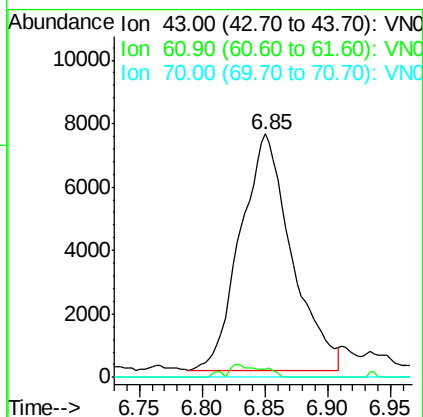
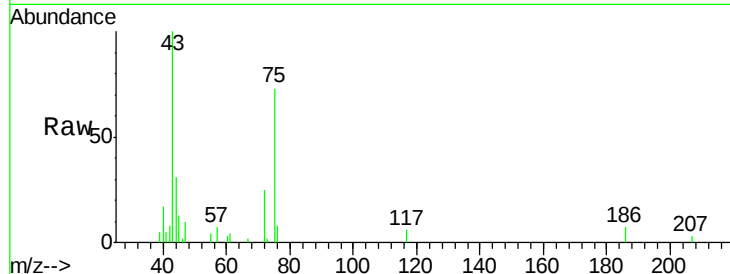




#37
Ethyl Acetate
Concen: 1.60 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. -0.08 min
Lab File: VN049705.D
Acq: 3 Jul 2018 20:15

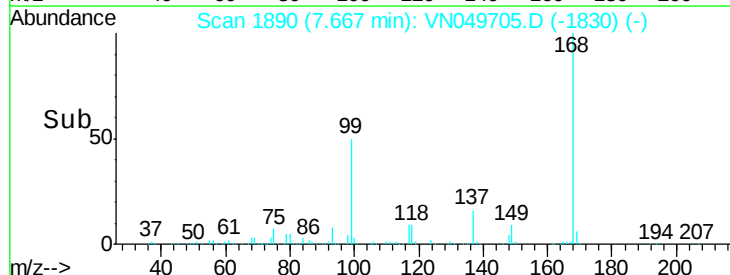
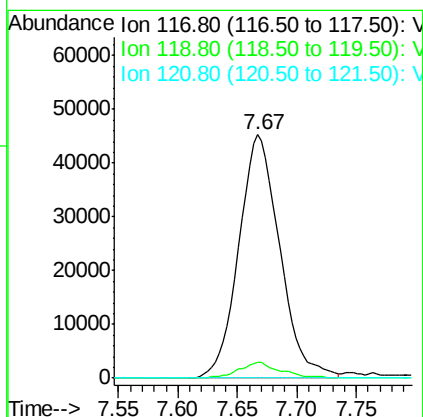
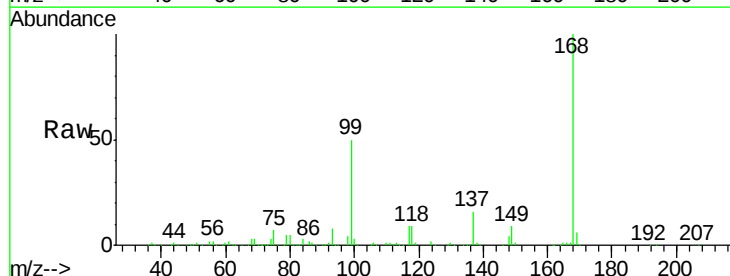
Instrument :
MSVOA_N
ClientSampleId :

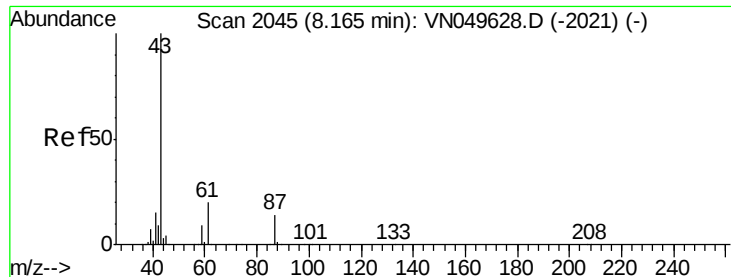
Tot Ion: 43 Resp: 21180
Ion Ratio Lower Upper
43 100
61 0.0 11.7 17.5#
70 0.0 8.4 12.6#



#38
Carbon Tetrachloride
Concen: 4.90 ug/l
RT: 7.67 min Scan# 1890
Delta R.T. -0.11 min
Lab File: VN049705.D
Acq: 3 Jul 2018 20:15

Tgt Ion: 117 Resp: 108064
Ion Ratio Lower Upper
117 100
119 6.5 77.2 115.8#
121 0.0 25.0 37.6#

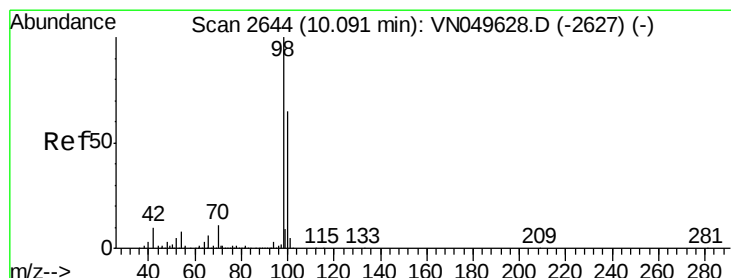
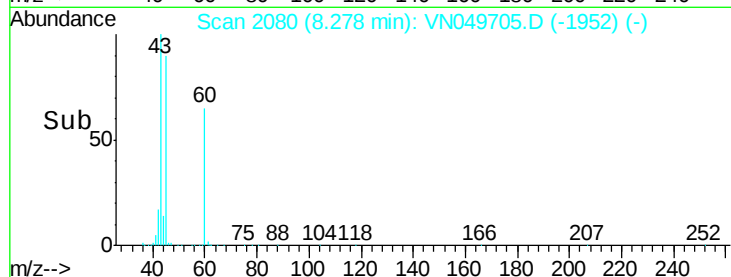
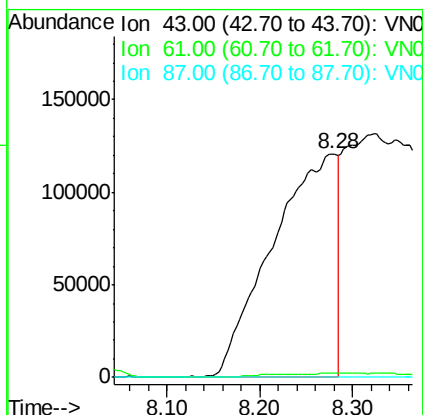
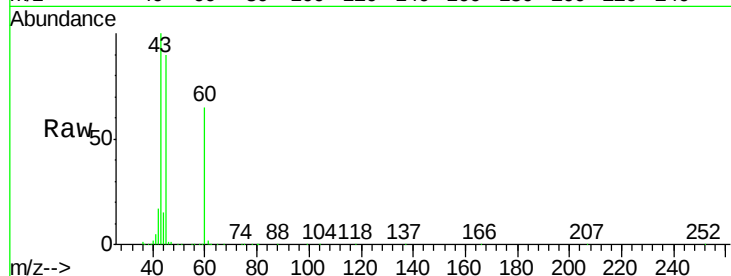




#43
Isopropyl Acetate
Concen: 21.84 ug/l
RT: 8.28 min Scan# 2080
Delta R.T. 0.11 min
Lab File: VN049705.D
Acq: 3 Jul 2018 20:15

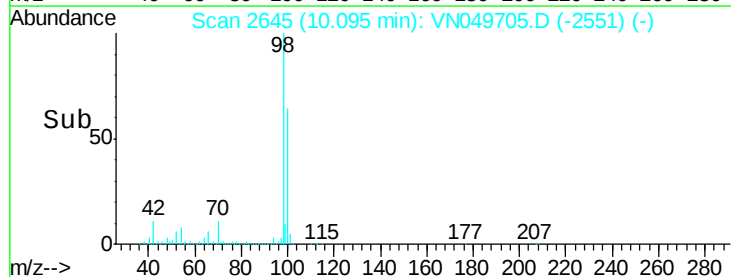
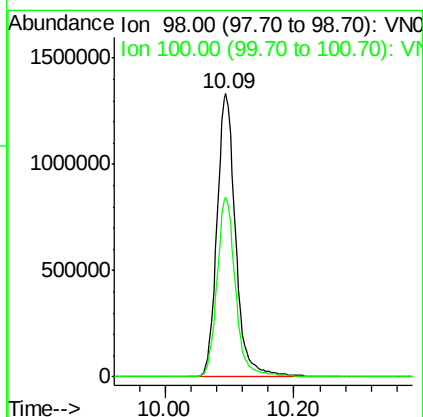
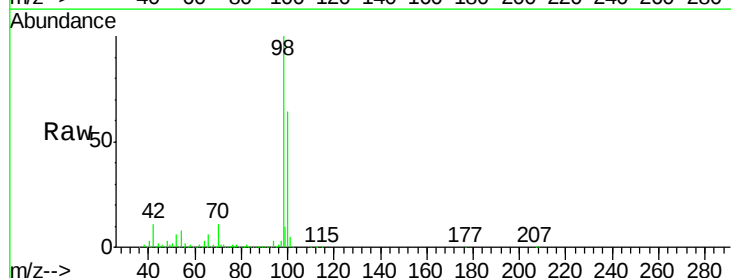
Instrument :
MSVOA_N
ClientSampleId :

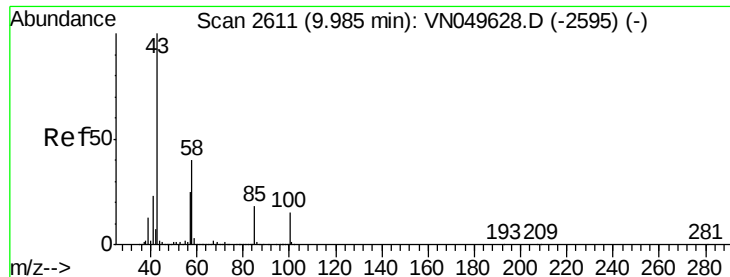
Tot Ion: 43 Resp: 582389
Ion Ratio Lower Upper
43 100
61 0.1 14.9 22.3#
87 0.0 10.0 15.0#



#50
Toluene-d8
Concen: 45.29 ug/l
RT: 10.09 min Scan# 2645
Delta R.T. 0.00 min
Lab File: VN049705.D
Acq: 3 Jul 2018 20:15

Tgt Ion: 98 Resp: 2672538
Ion Ratio Lower Upper
98 100
100 63.0 51.7 77.5

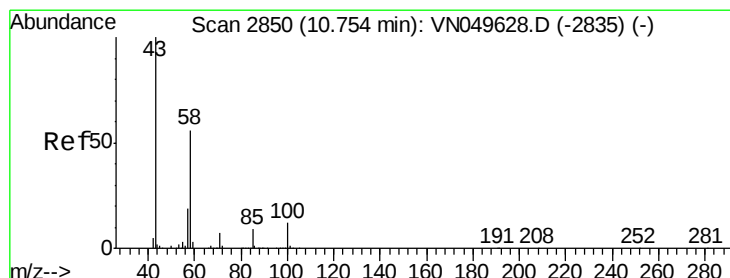
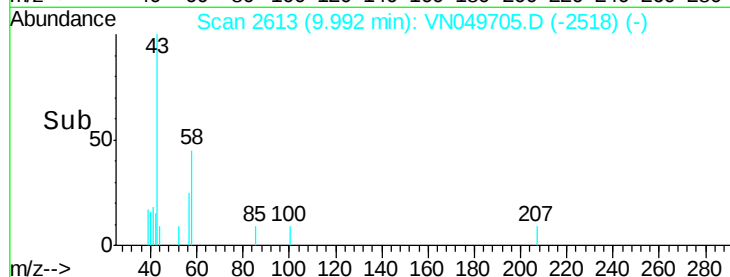
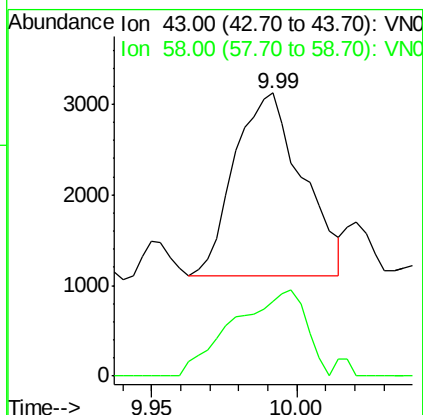
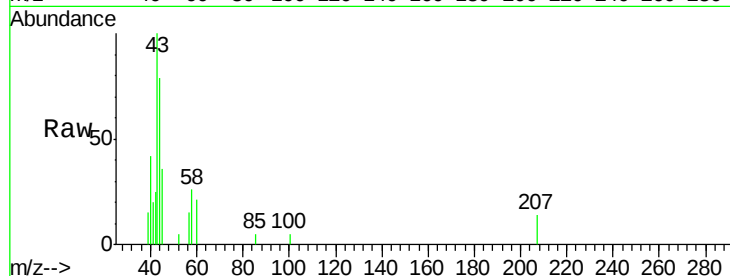




#51
4-Methyl-2-Pentanone
Concen: 0.25 ug/l
RT: 9.99 min Scan# 2613
Delta R.T. 0.01 min
Lab File: VN049705.D
Acq: 3 Jul 2018 20:15

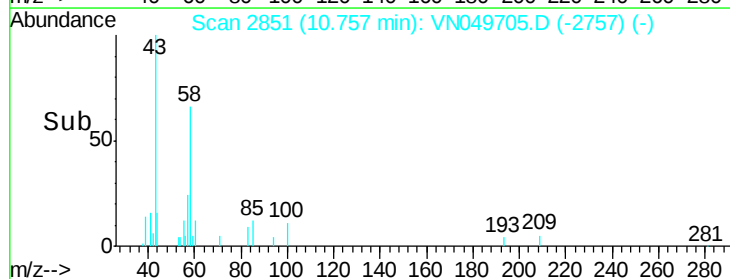
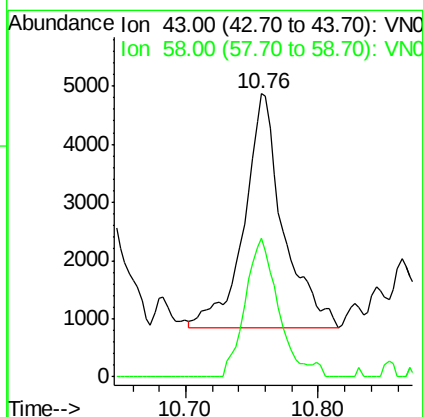
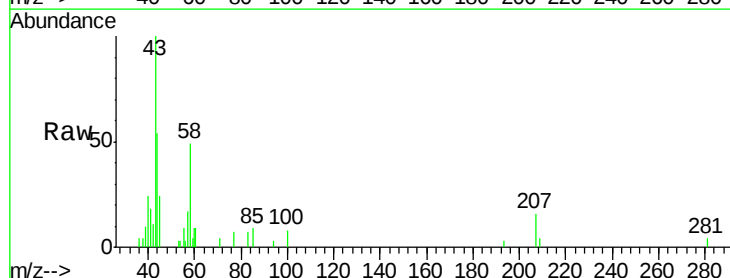
Instrument :
MSVOA_N
ClientSampled :

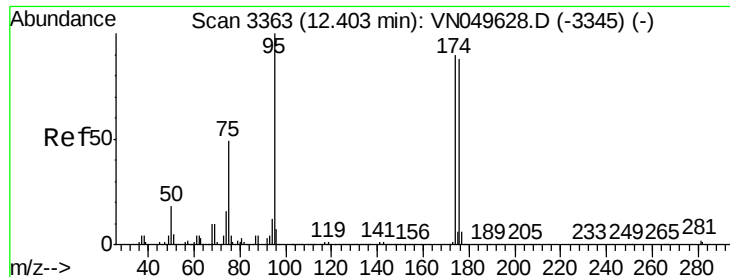
Tot Ion: 43 Resp: 3277
Ion Ratio Lower Upper
43 100
58 50.4 31.8 47.8#



#59
2-Hexanone
Concen: 0.95 ug/l
RT: 10.76 min Scan# 2851
Delta R.T. 0.00 min
Lab File: VN049705.D
Acq: 3 Jul 2018 20:15

Tgt Ion: 43 Resp: 8187
Ion Ratio Lower Upper
43 100
58 49.7 27.8 83.4





#62

4-Bromofluorobenzene

Concen: 37.66 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049705.D

Acq: 3 Jul 2018 20:15

Instrument :

MSVOA_N

ClientSampleId :

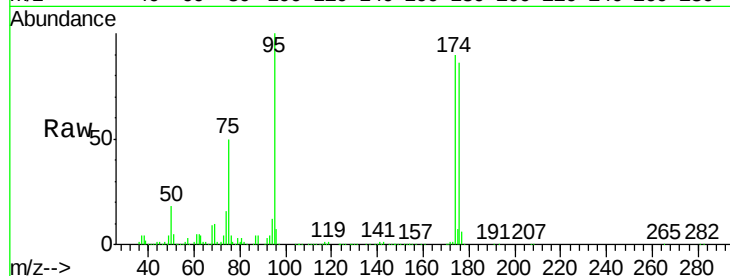
Tot Ion: 95 Resp: 758674

Ion Ratio Lower Upper

95 100

174 91.8 0.0 179.6

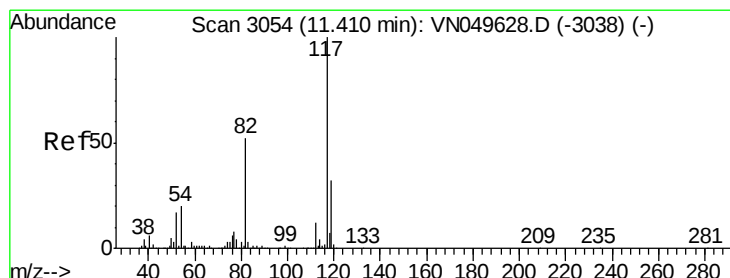
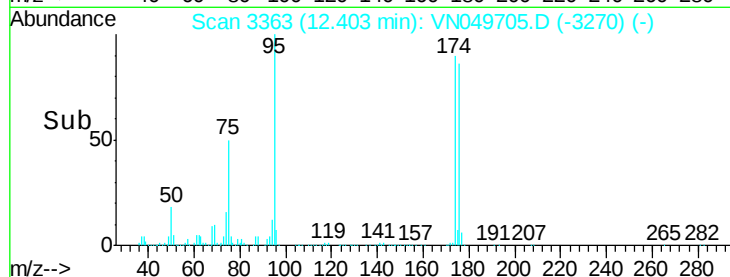
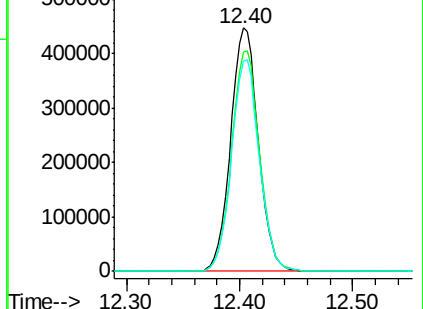
176 87.1 0.0 174.0



Abundance Ion 94.90 (94.60 to 95.60): VN049628.D (-3345) (-)

Ion 173.80 (173.50 to 174.50): VN049628.D (-3345) (-)

Ion 175.80 (175.50 to 176.50): VN049628.D (-3345) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN049705.D

Acq: 3 Jul 2018 20:15

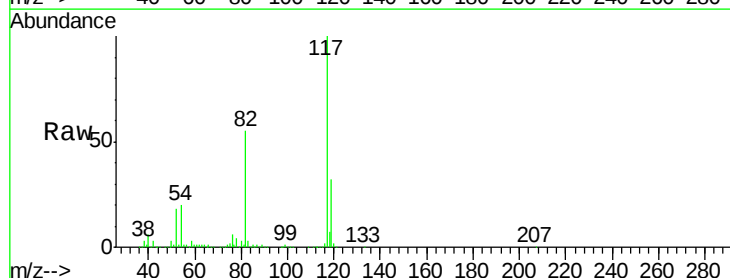
Tgt Ion: 117 Resp: 1643085

Ion Ratio Lower Upper

117 100

82 55.0 41.9 62.9

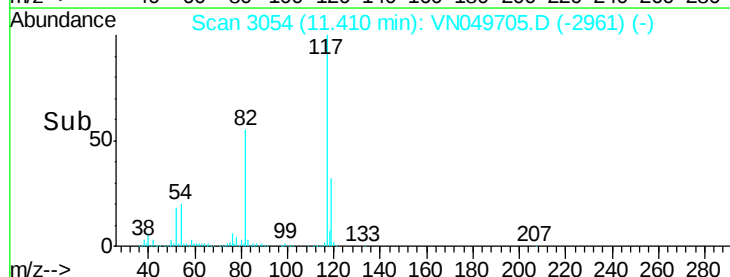
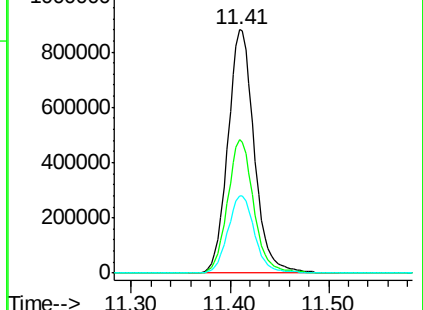
119 31.9 25.4 38.2

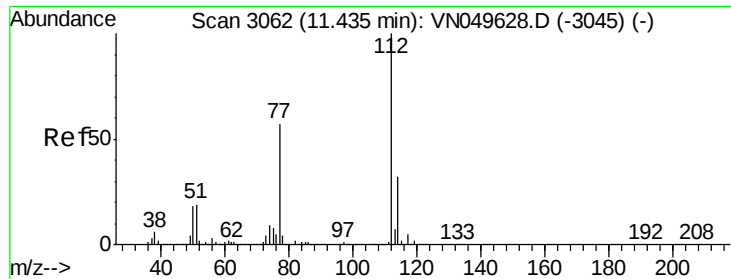


Abundance Ion 116.90 (116.60 to 117.60): VN049628.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN049628.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN049628.D (-3038) (-)

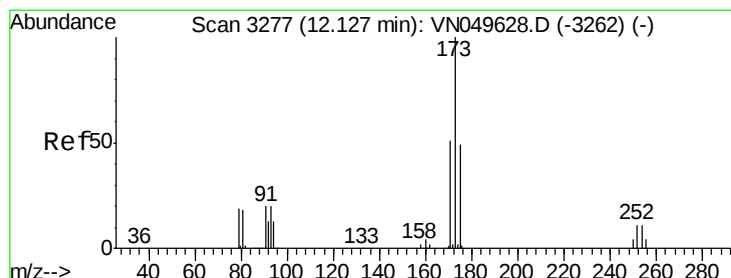
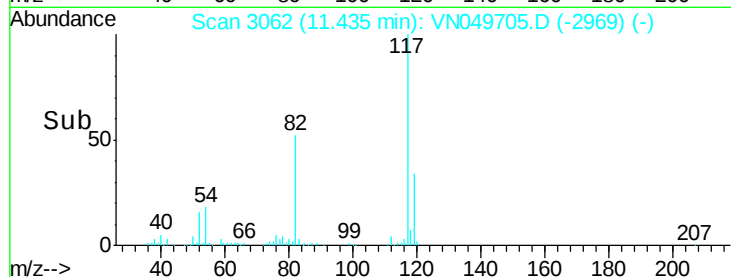
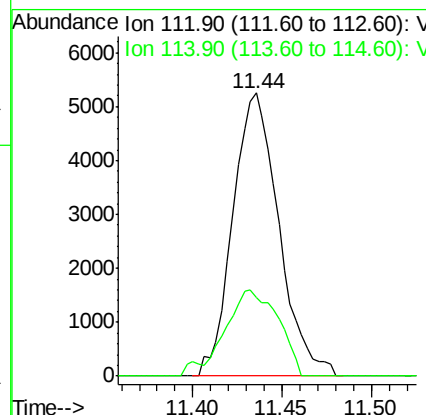
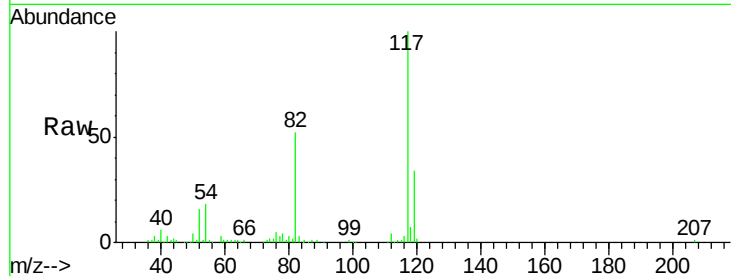




#65
Chlorobenzene
Concen: 0.22 ug/l
RT: 11.44 min Scan# 3062
Delta R.T. 0.00 min
Lab File: VN049705.D
Acq: 3 Jul 2018 20:15

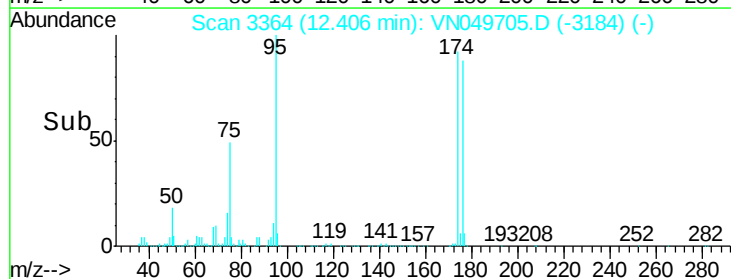
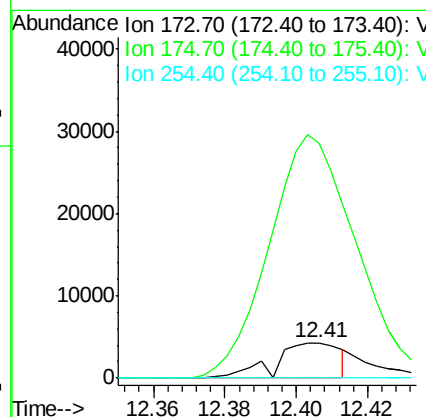
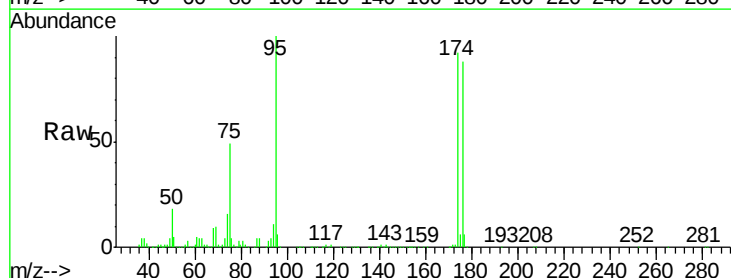
Instrument :
MSVOA_N
ClientSampled :

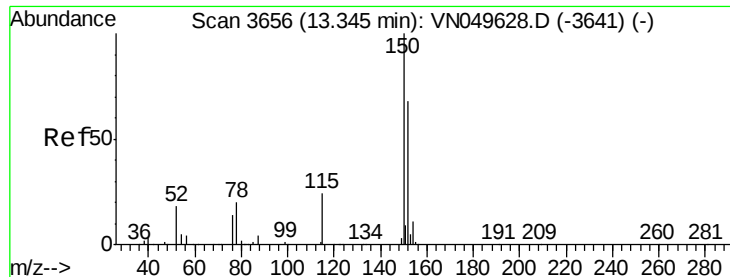
Tot Ion:112 Resp: 9410
Ion Ratio Lower Upper
112 100
114 27.7 25.4 38.0



#71
Bromoform
Concen: 0.53 ug/l
RT: 12.41 min Scan# 3364
Delta R.T. 0.28 min
Lab File: VN049705.D
Acq: 3 Jul 2018 20:15

Tgt Ion:173 Resp: 5475
Ion Ratio Lower Upper
173 100
175 718.5 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: VN049705.D

Acq: 3 Jul 2018 20:15

Instrument :

MSVOA_N

ClientSampled :

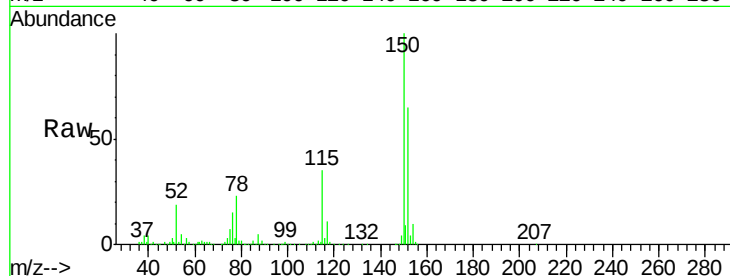
Tot Ion:152 Resp: 607477

Ion Ratio Lower Upper

152 100

115 55.5 28.1 84.2

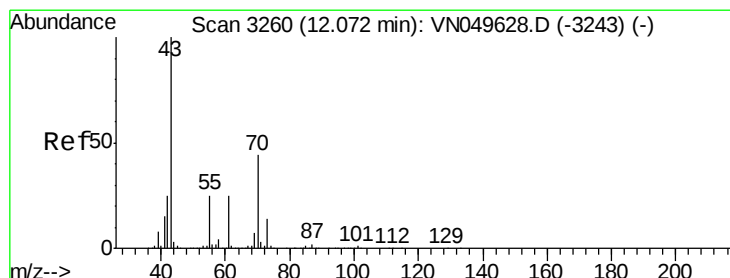
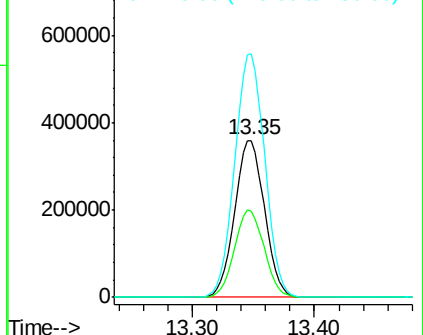
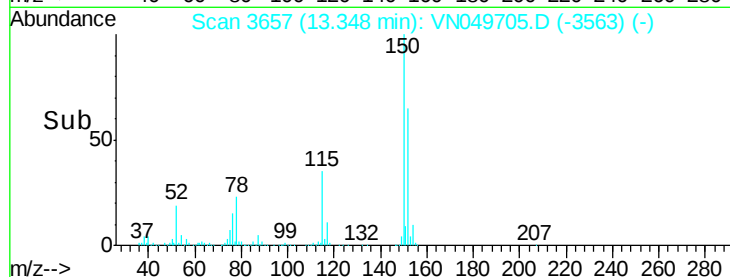
150 156.5 0.0 347.6



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



#74

N-ethyl acetate

Concen: 0.40 ug/l

RT: 12.04 min Scan# 3249

Delta R.T. -0.04 min

Lab File: VN049705.D

Acq: 3 Jul 2018 20:15

Tgt Ion: 43 Resp: 5279

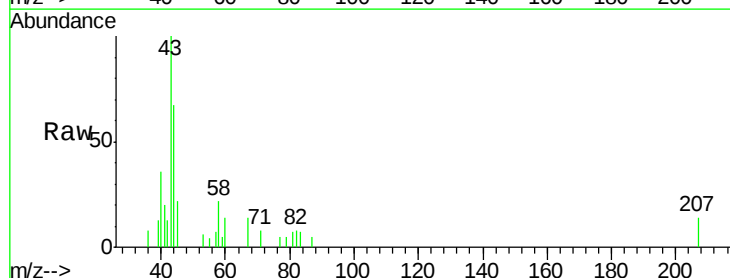
Ion Ratio Lower Upper

43 100

70 0.0 34.8 52.2#

55 3.9 20.9 31.3#

61 0.0 19.9 29.9#

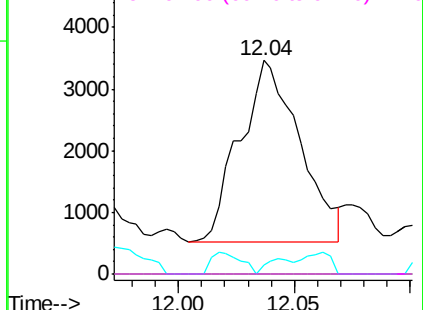
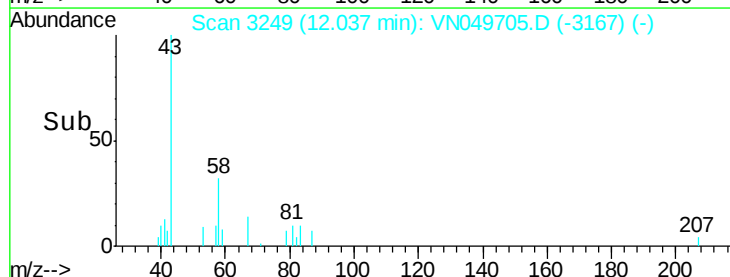


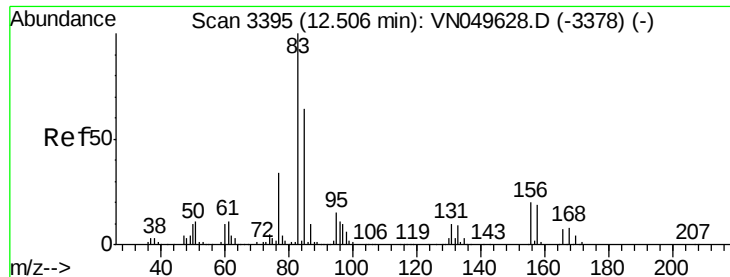
Abundance Ion 43.00 (42.70 to 43.70): V

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

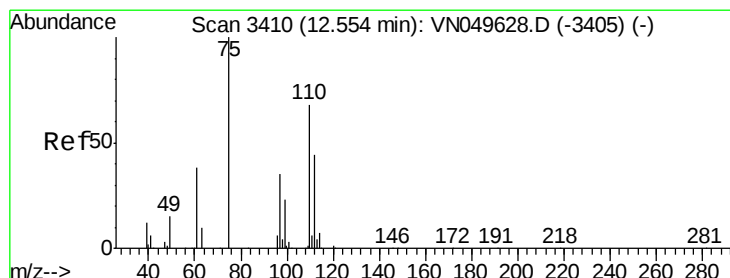
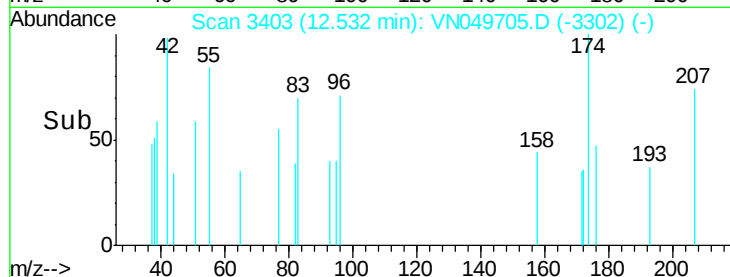
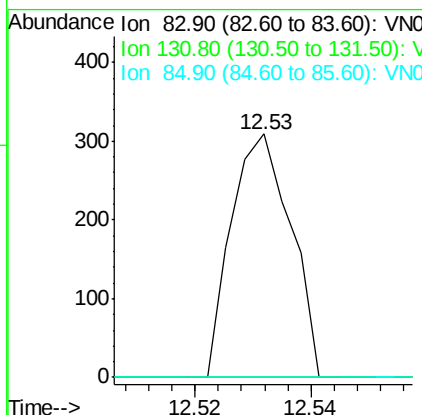
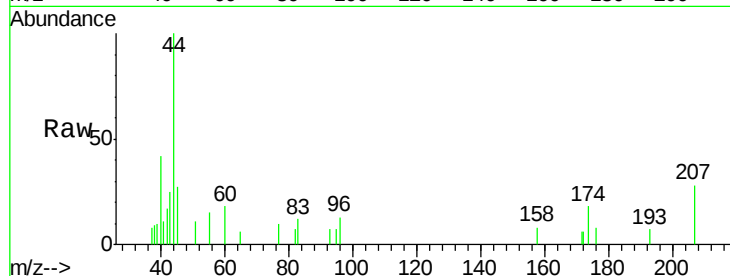




#75
 1,1,2,2-Tetrachloroethane
 Concen: Below Cal
 RT: 12.53 min Scan# 3403
 Delta R.T. 0.03 min
 Lab File: VN049705.D
 Acq: 3 Jul 2018 20:15

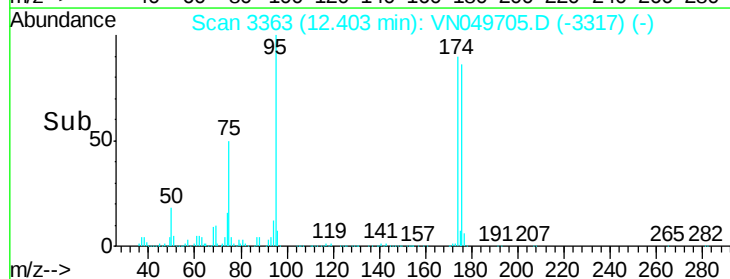
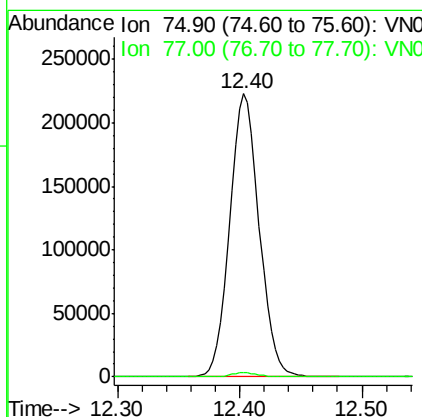
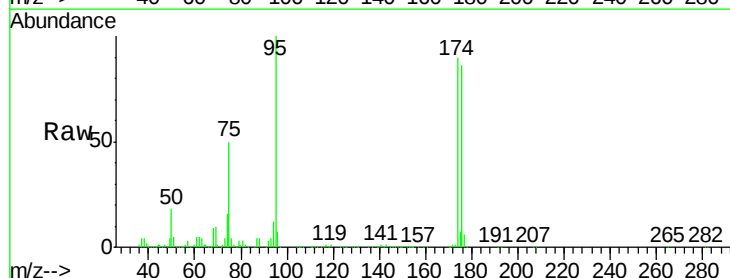
Instrument :
 MSVOA_N
 ClientSampleId :

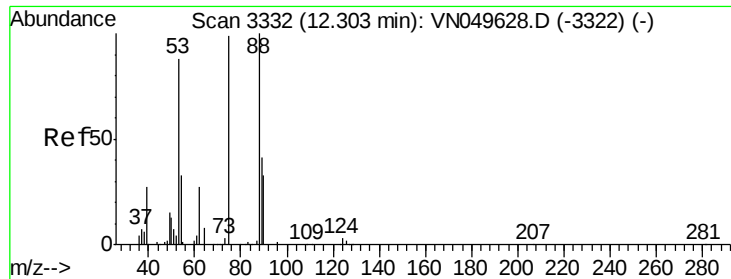
Tot Ion: 83 Resp: 219
 Ion Ratio Lower Upper
 83 100
 131 0.0 5.2 15.6#
 85 0.0 32.5 97.4#



#76
 1,2,3-Trichloropropane
 Concen: 38.47 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. -0.15 min
 Lab File: VN049705.D
 Acq: 3 Jul 2018 20:15

Tgt Ion: 75 Resp: 374777
 Ion Ratio Lower Upper
 75 100
 77 1.4 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 130.65 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN049705.D

Acq: 3 Jul 2018 20:15

Instrument :

MSVOA_N

ClientSampleId :

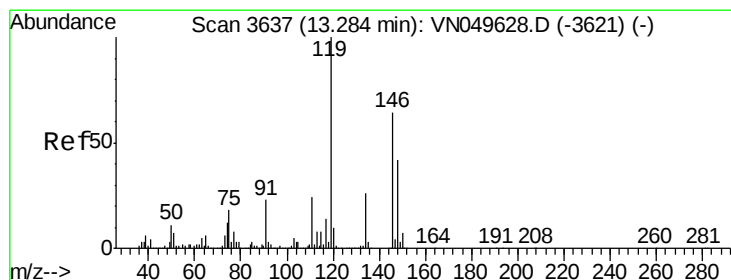
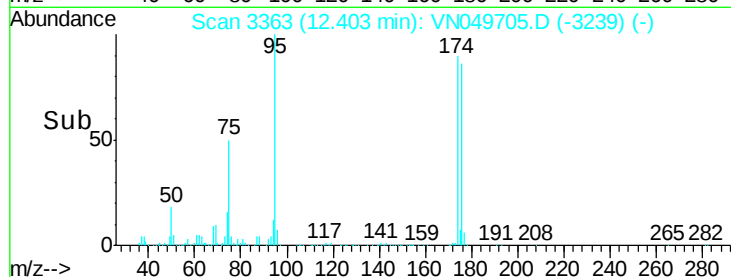
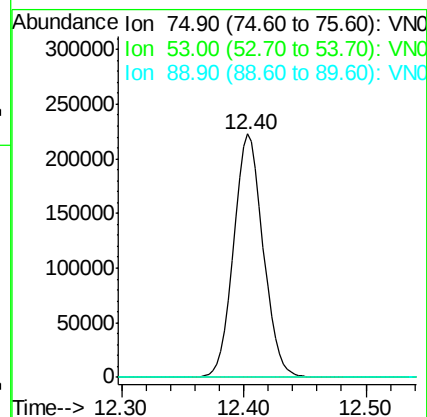
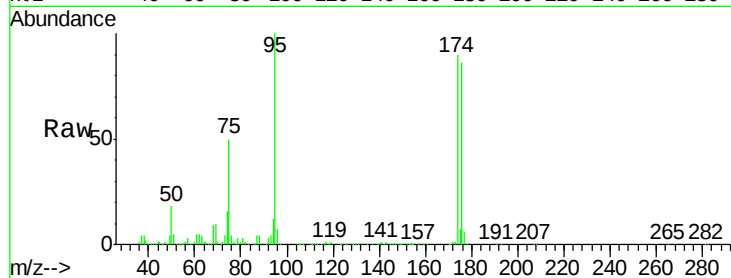
Tot Ion: 75 Resp: 374777

Ion Ratio Lower Upper

75 100

53 0.2 73.9 110.9#

89 0.0 35.9 53.9#



#87

1,3-Dichlorobenzene

Concen: Below Cal

RT: 13.28 min Scan# 3635

Delta R.T. -0.01 min

Lab File: VN049705.D

Acq: 3 Jul 2018 20:15

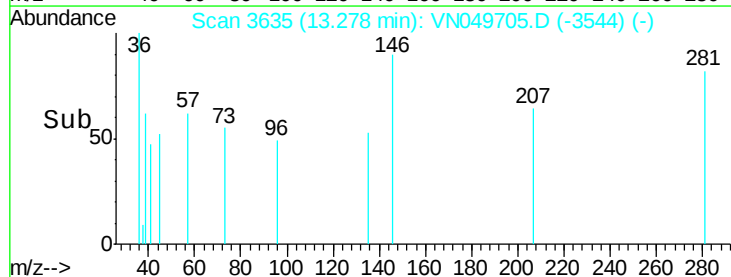
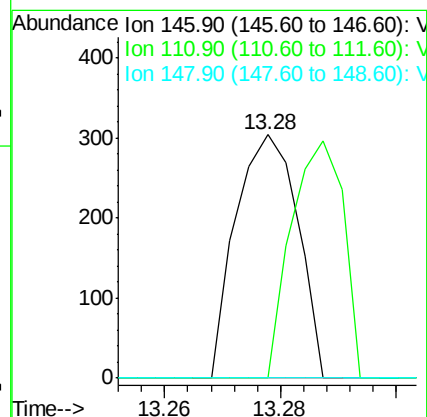
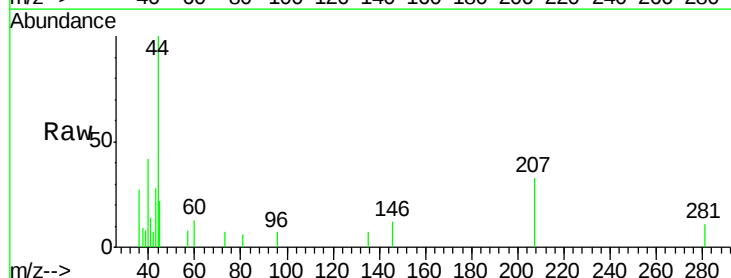
Tgt Ion: 146 Resp: 224

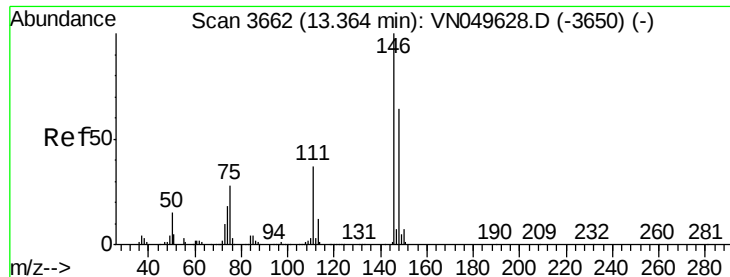
Ion Ratio Lower Upper

146 100

111 0.0 19.0 57.0#

148 0.0 32.5 97.5#

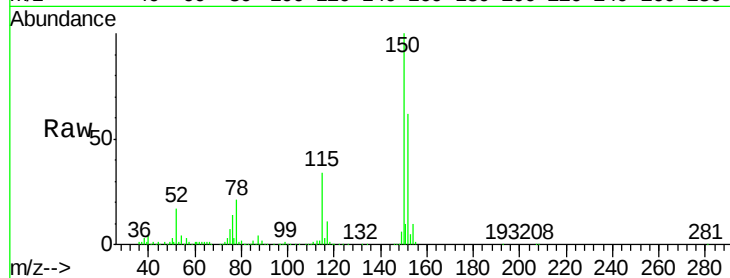




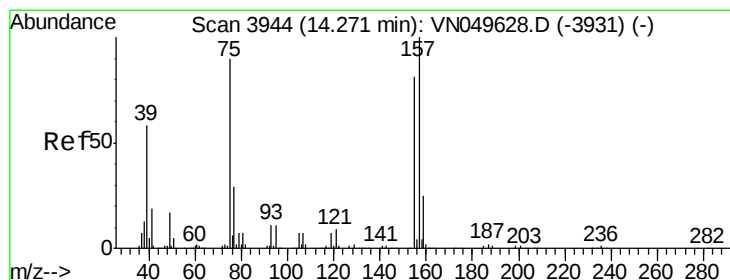
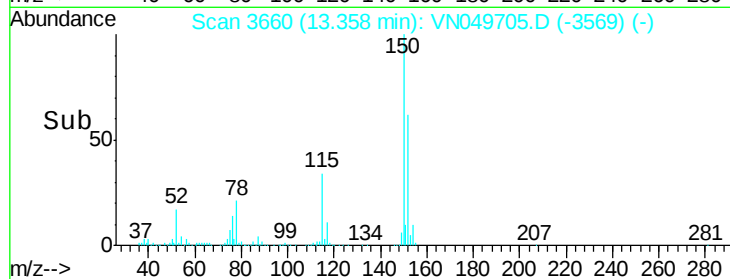
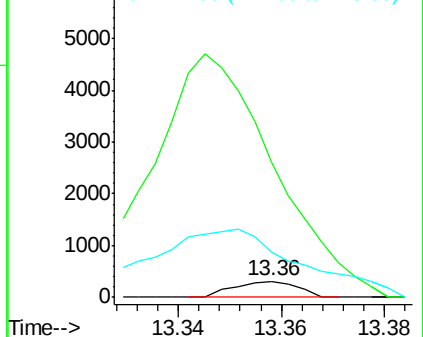
#88
 1,4-Dichlorobenzene
 Concen: Below Cal
 RT: 13.36 min Scan# 3660
 Delta R.T. -0.01 min
 Lab File: VN049705.D
 Acq: 3 Jul 2018 20:15

Instrument :
 MSVOA_N
 ClientSampleId :

Tot Ion:146 Resp: 265
 Ion Ratio Lower Upper
 146 100
 111 2935.1 18.9 56.5#
 148 980.4 32.1 96.3#

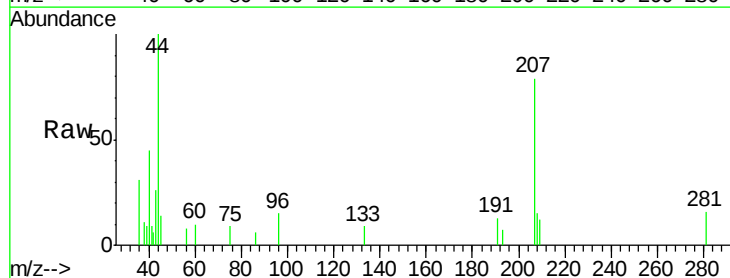


Abundance Ion 145.90 (145.60 to 146.60): V
 Ion 110.90 (110.60 to 111.60): V
 Ion 147.90 (147.60 to 148.60): V

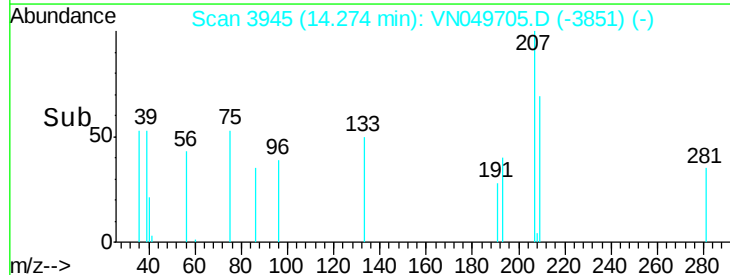
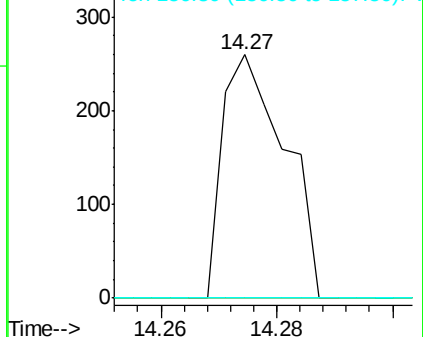


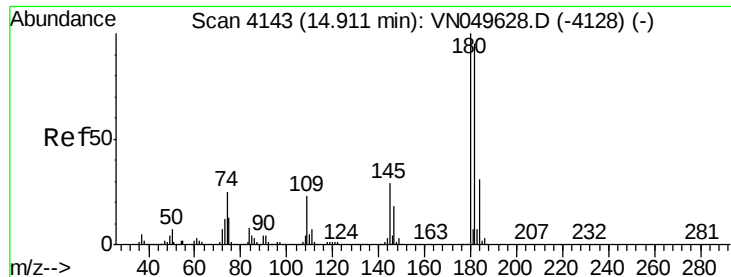
#92
 1,2-Dibromo-3-Chloropropane
 Concen: Below Cal
 RT: 14.27 min Scan# 3945
 Delta R.T. 0.00 min
 Lab File: VN049705.D
 Acq: 3 Jul 2018 20:15

Tgt Ion: 75 Resp: 193
 Ion Ratio Lower Upper
 75 100
 155 0.0 45.7 137.1#
 157 0.0 56.9 170.7#



Abundance Ion 74.90 (74.60 to 75.60): V
 Ion 154.80 (154.50 to 155.50): V
 Ion 156.80 (156.50 to 157.50): V

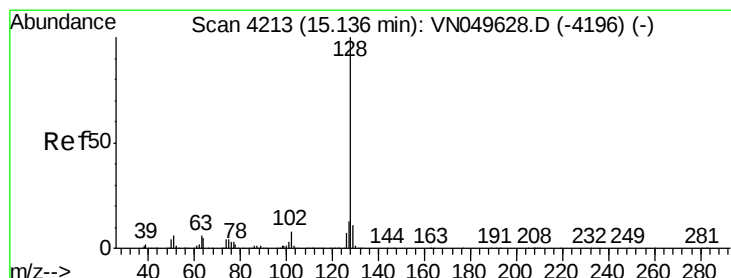
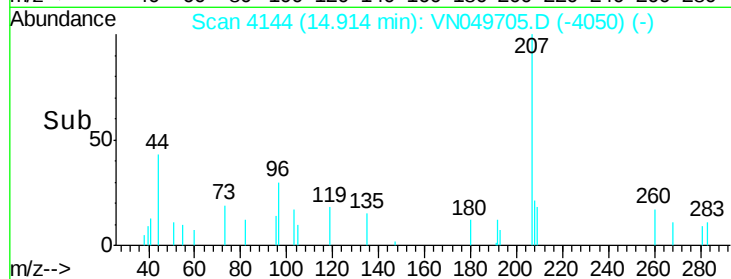
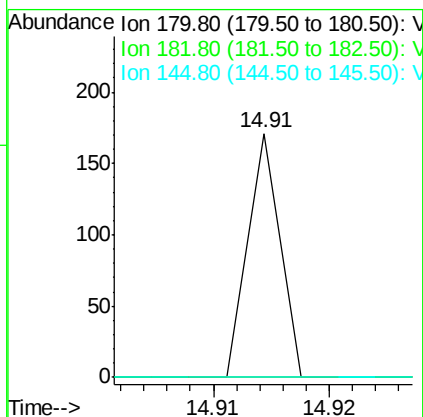
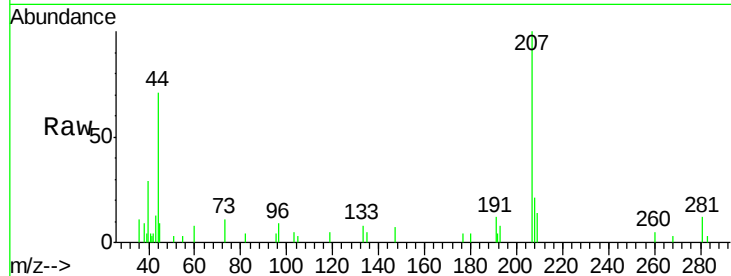




#93
 1,2,4-Trichlorobenzene
 Concen: 2.41 ug/l
 RT: 14.91 min Scan# 4144
 Delta R.T. 0.00 min
 Lab File: VN049705.D
 Acq: 3 Jul 2018 20:15

Instrument :
 MSVOA_N
 ClientSampled :

Tot Ion:180 Resp: 33
 Ion Ratio Lower Upper
 180 100
 182 0.0 47.3 141.9#
 145 0.0 14.4 43.0#



#95
 Naphthalene
 Concen: 4.06 ug/l
 RT: 15.14 min Scan# 4214
 Delta R.T. 0.00 min
 Lab File: VN049705.D
 Acq: 3 Jul 2018 20:15

Tgt Ion:128 Resp: 597
 Ion Ratio Lower Upper
 128 100
 127 0.0 10.4 15.6#
 129 0.0 8.6 13.0#

