

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN121018\
 Data File : VN052786.D
 Acq On : 11 Dec 2018 7:11
 Operator : MD\SY
 Sample : J6316-16
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 50 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 AVE-X-B-BALL-FIELD-S-2

Quant Time: Dec 11 07:36:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1183479	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1840698	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1641090	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	671851	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	625510	48.54	ug/l	0.00
Spiked Amount			Recovery	=	97.08%	
35) Dibromofluoromethane	7.59	113	524524	46.22	ug/l	0.00
Spiked Amount			Recovery	=	92.44%	
50) Toluene-d8	10.09	98	2254845	51.05	ug/l	0.00
Spiked Amount			Recovery	=	102.10%	
62) 4-Bromofluorobenzene	12.40	95	733802	49.44	ug/l	0.00
Spiked Amount			Recovery	=	98.88%	

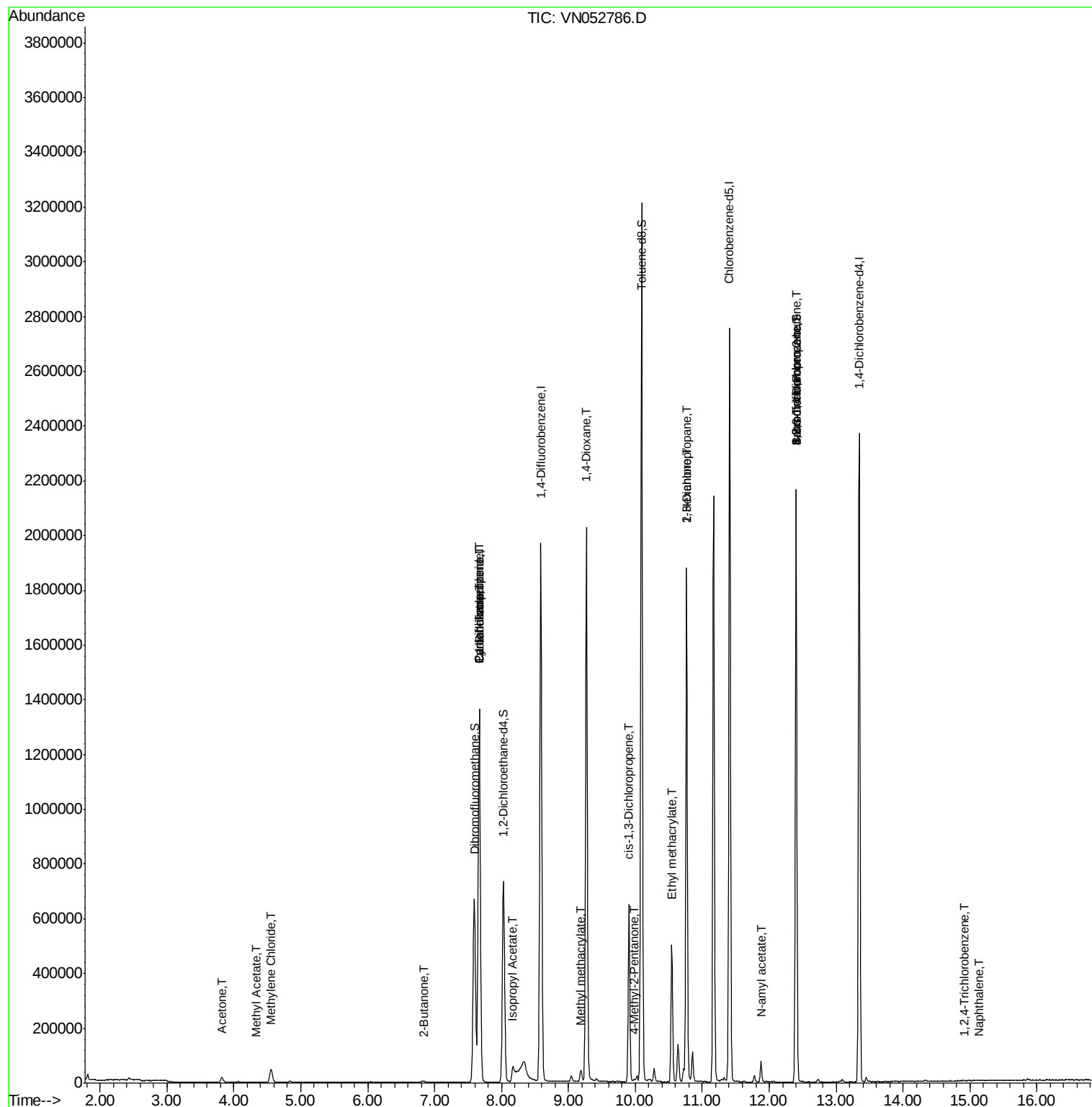
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	33073	9.731	ug/l	94
18) Methyl Acetate	4.34	43	3995	0.410	ug/l #	73
20) Methylene Chloride	4.56	84	35411	2.662	ug/l	95
25) 2-Butanone	6.84	43	1329	0.276	ug/l	93
31) Cyclohexane	7.66	56	20149	0.547	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	80480	4.630	ug/l #	49
38) Carbon Tetrachloride	7.67	117	102274	6.500	ug/l #	16
43) Isopropyl Acetate	8.17	43	64578	3.597	ug/l #	75
48) Methyl methacrylate	9.18	41	13264	1.417	ug/l #	25
49) 1,4-Dioxane	9.27	88	293	3.016	ug/l #	1
51) 4-Methyl-2-Pentanone	9.99	43	7351	0.730	ug/l	92
54) cis-1,3-Dichloropropene	9.90	75	120554	6.308	ug/l #	61
56) Ethyl methacrylate	10.54	69	1589	2.793	ug/l #	1
57) 1,3-Dichloropropane	10.76	76	20102	1.052	ug/l #	43
59) 2-Hexanone	10.76	43	271032	40.092	ug/l #	51
71) Bromoform	12.40	173	4744	0.609	ug/l #	1
74) N-amyl acetate	11.88	43	23868	1.792	ug/l #	52
76) 1,2,3-Trichloropropane	12.40	75	346934	33.487	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	346934	111.830	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	199	2.845	ug/l #	57
95) Naphthalene	15.13	128	988	3.465	ug/l #	69

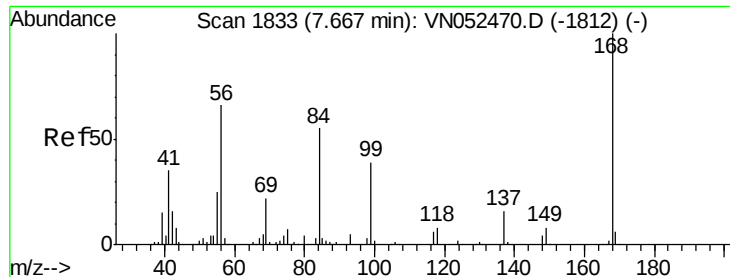
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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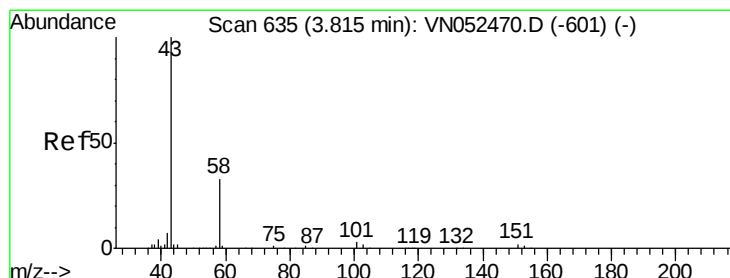
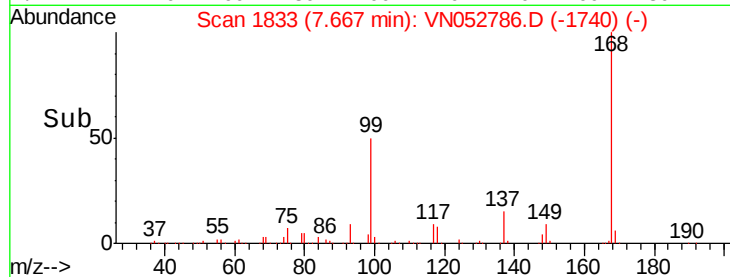
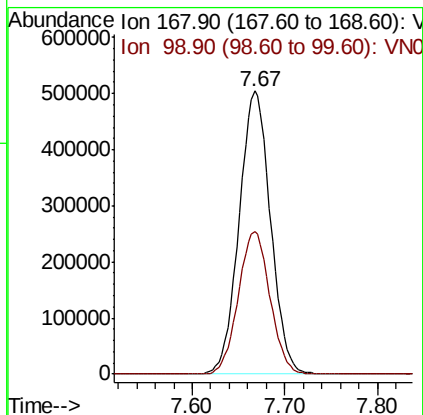
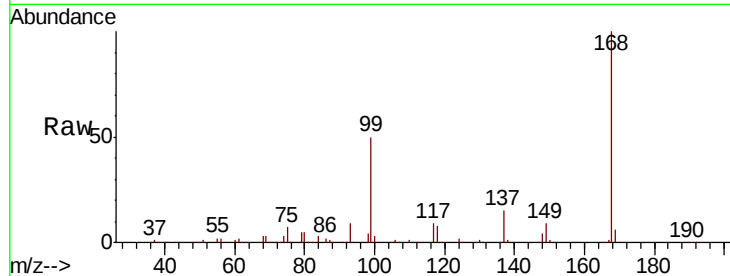


#1

Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.00 min
 Lab File: VN052786.D
 Acq: 11 Dec 2018 7:11

Instrument :
 MSVOA_N
 ClientSampleId :
 AVE-X-B-BALL-FIELD-S-2

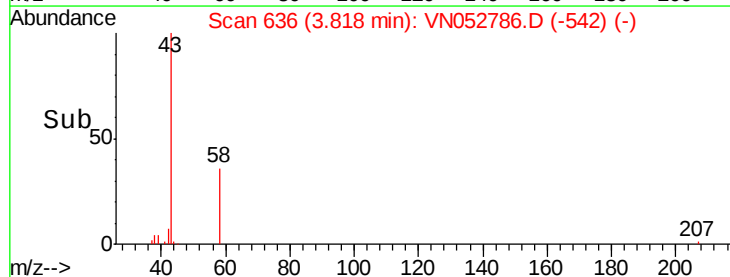
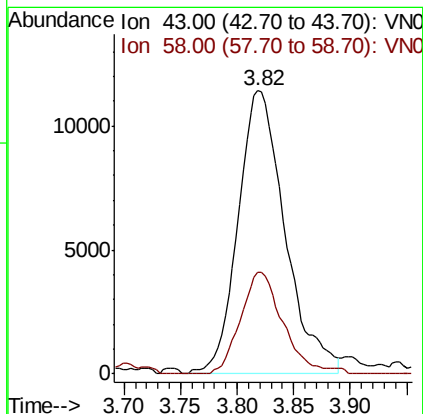
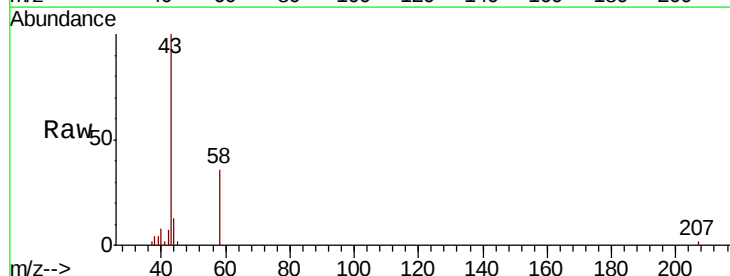
Tot Ion:168 Resp: 1183479
 Ion Ratio Lower Upper
 168 100
 99 50.4 41.7 62.5

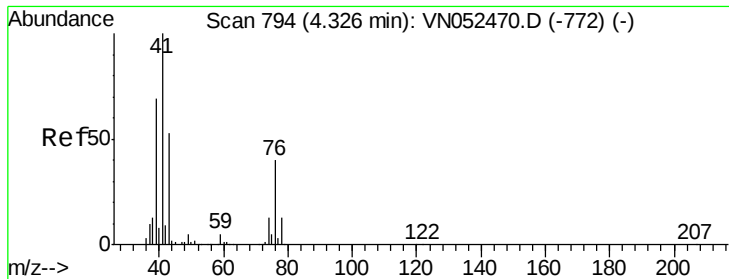


#16

Acetone
 Concen: 9.731 ug/l
 RT: 3.82 min Scan# 636
 Delta R.T. 0.00 min
 Lab File: VN052786.D
 Acq: 11 Dec 2018 7:11

Tgt Ion: 43 Resp: 33073
 Ion Ratio Lower Upper
 43 100
 58 35.8 26.0 39.0

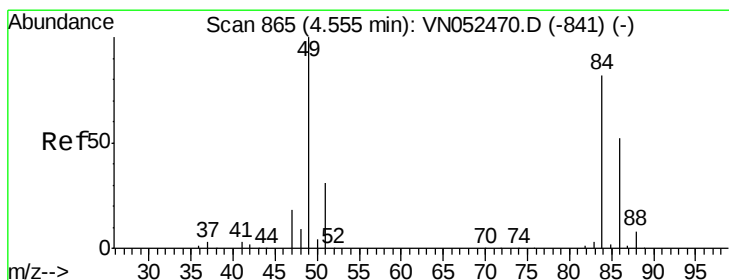
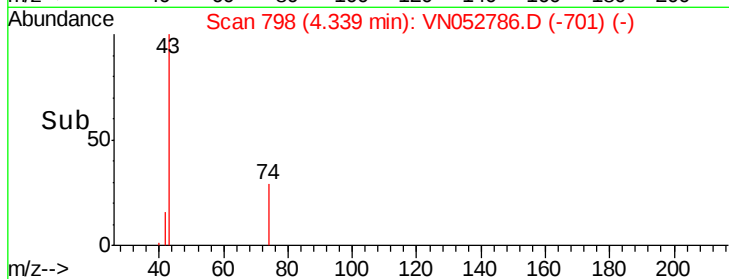
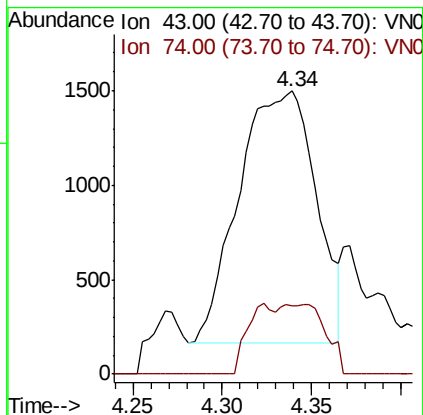
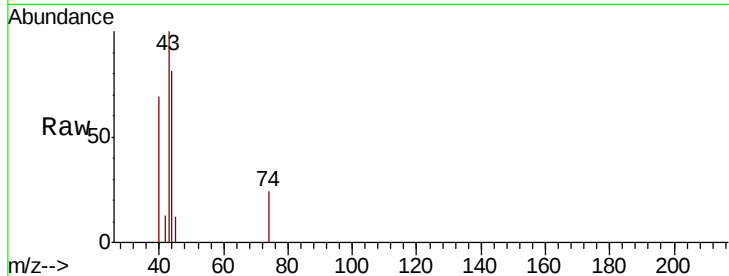




#18
Methvl Acetate
Concen: 0.410 ug/l
RT: 4.34 min Scan# 798
Delta R.T. 0.01 min
Lab File: VN052786.D
Acq: 11 Dec 2018 7:11

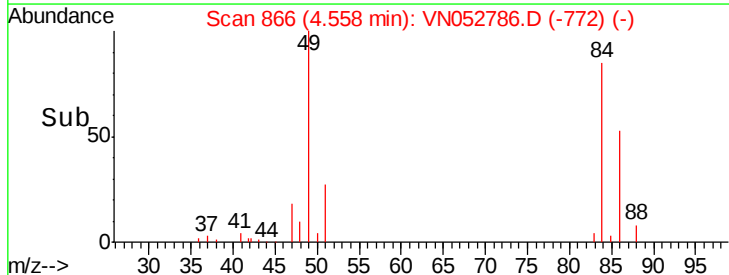
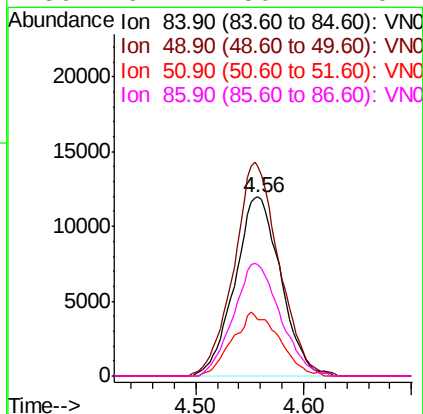
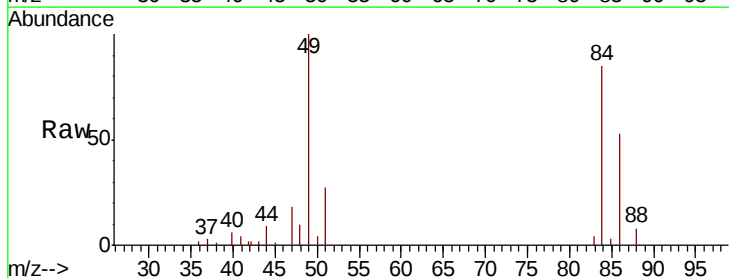
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MSVOA_N
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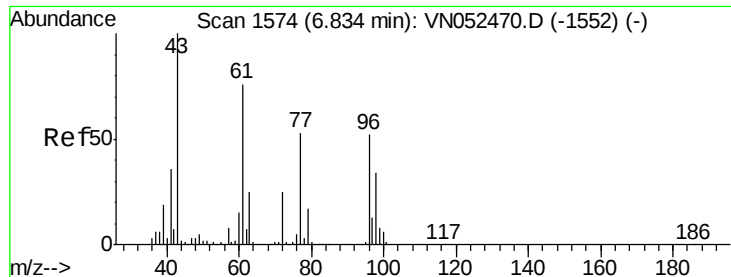
Tot Ion: 43 Resp: 3995
Ion Ratio Lower Upper
43 100
74 10.1 18.6 27.8#



#20
Methylene Chloride
Concen: 2.662 ug/l
RT: 4.56 min Scan# 866
Delta R.T. 0.00 min
Lab File: VN052786.D
Acq: 11 Dec 2018 7:11

Tgt Ion: 84 Resp: 35411
Ion Ratio Lower Upper
84 100
49 117.4 98.0 147.0
51 31.7 30.1 45.1
86 62.2 50.7 76.1

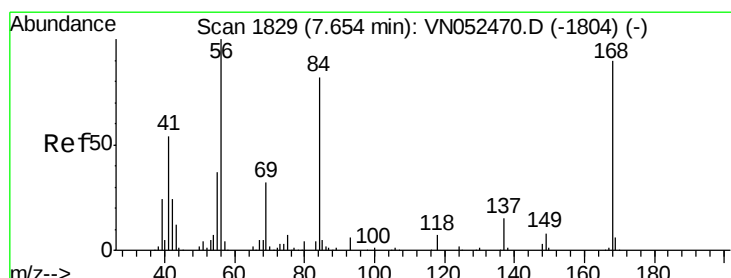
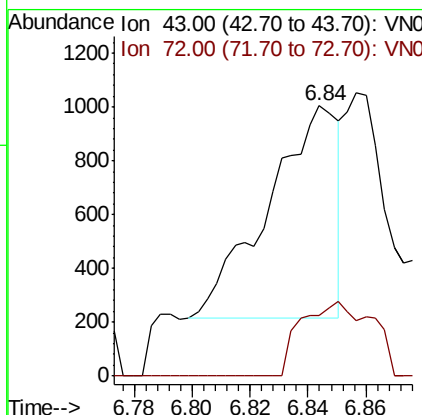
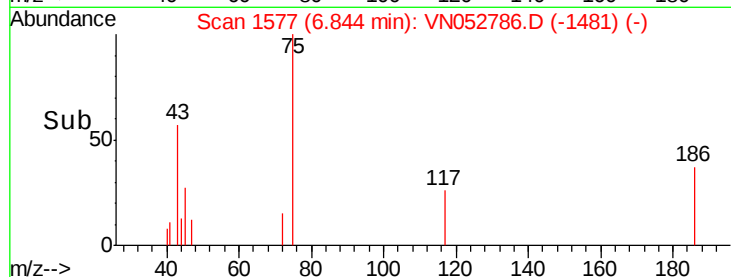
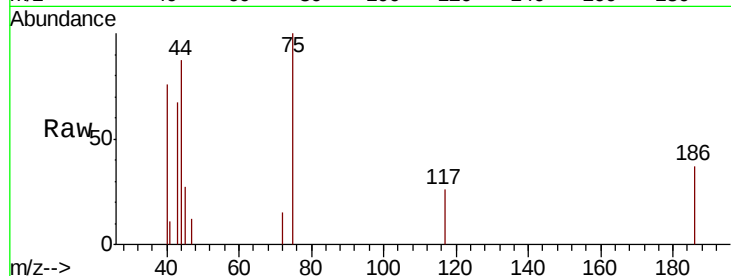




#25
2-Butanone
Concen: 0.276 ug/l
RT: 6.84 min Scan# 1577
Delta R.T. 0.01 min
Lab File: VN052786.D
Acq: 11 Dec 2018 7:11

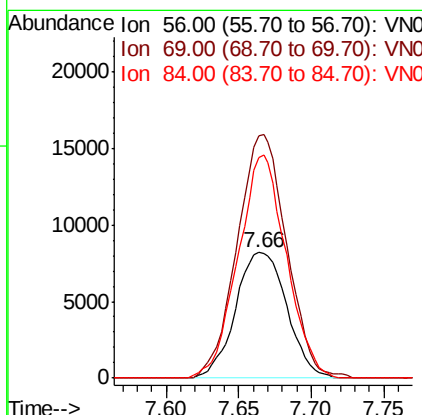
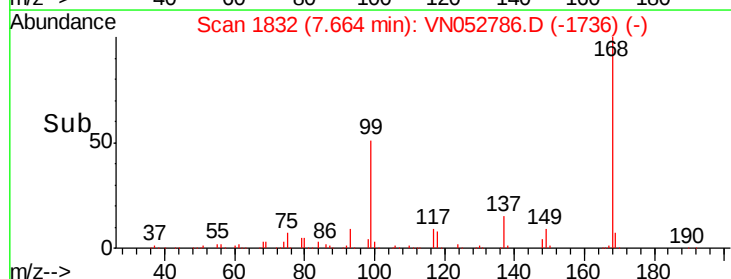
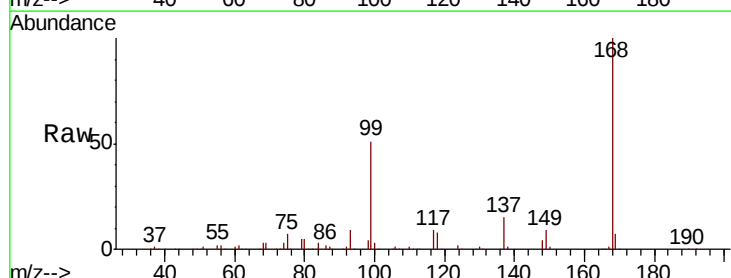
Instrument :
MSVOA_N
ClientSampleId :
AVE-X-B-BALL-FIELD-S-2

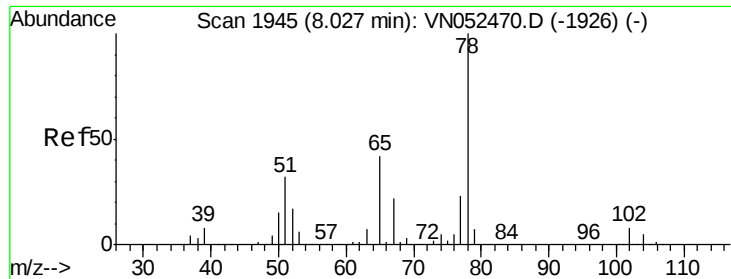
Tot Ion: 43 Resp: 1329
Ion Ratio Lower Upper
43 100
72 28.5 20.1 30.1



#31
Cyclohexane
Concen: 0.547 ug/l
RT: 7.66 min Scan# 1832
Delta R.T. 0.01 min
Lab File: VN052786.D
Acq: 11 Dec 2018 7:11

Tgt Ion: 56 Resp: 20149
Ion Ratio Lower Upper
56 100
69 193.4 25.8 38.6#
84 176.5 65.3 97.9#

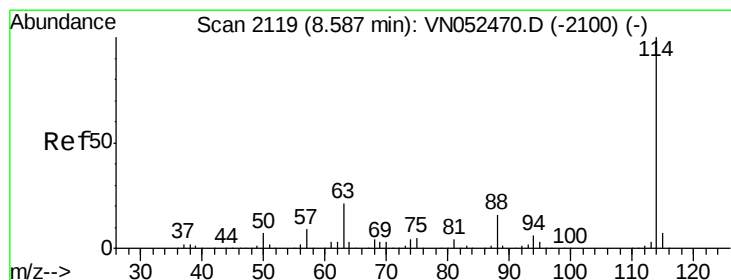
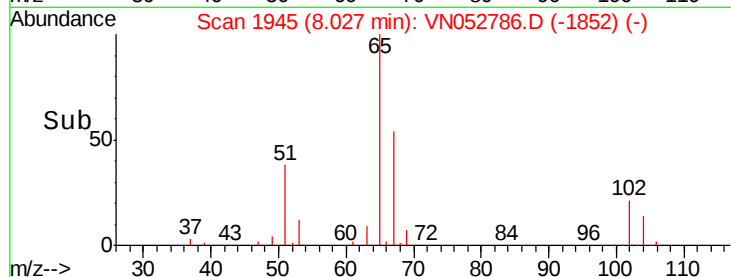
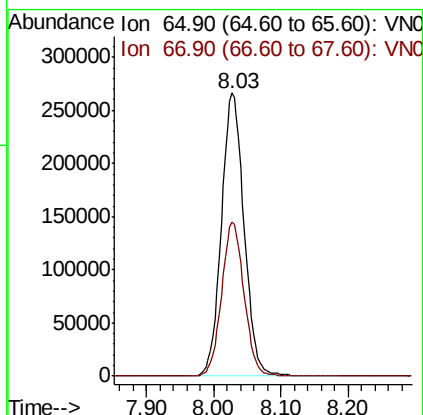
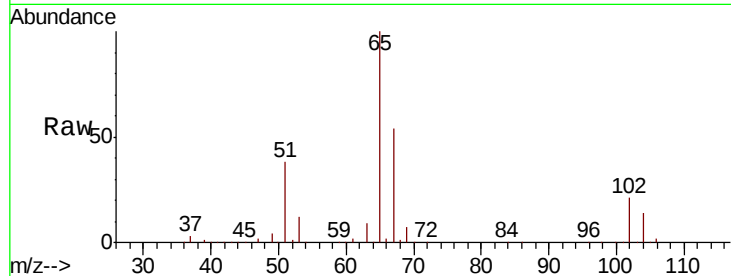




#33
 1,2-Dichloroethane-d4
 Concen: Below ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN052786.D
 Acq: 11 Dec 2018 7:11

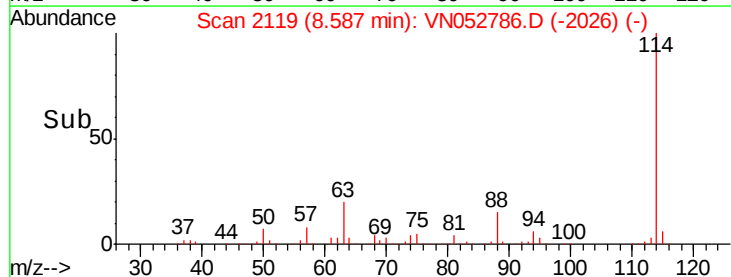
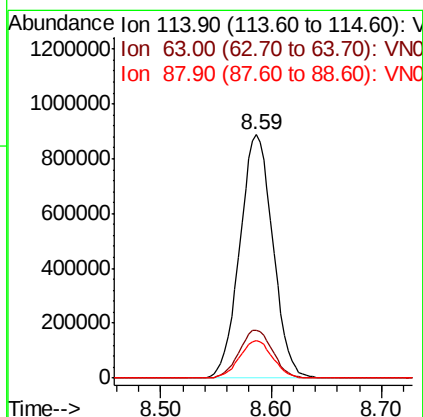
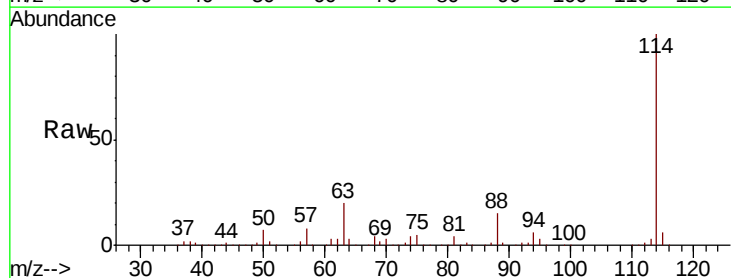
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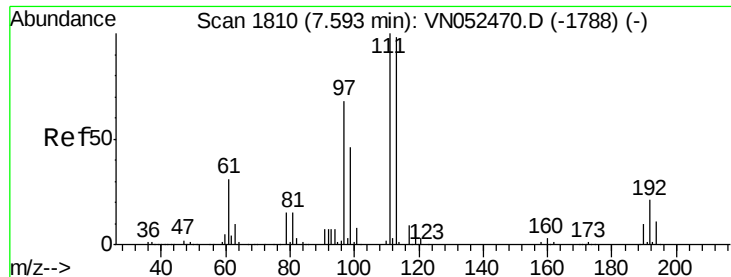
Tot Ion: 65 Resp: 625510
 Ion Ratio Lower Upper
 65 100
 67 53.9 0.0 109.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN052786.D
 Acq: 11 Dec 2018 7:11

Tgt Ion: 114 Resp: 1840698
 Ion Ratio Lower Upper
 114 100
 63 19.7 0.0 41.8
 88 15.3 0.0 31.6

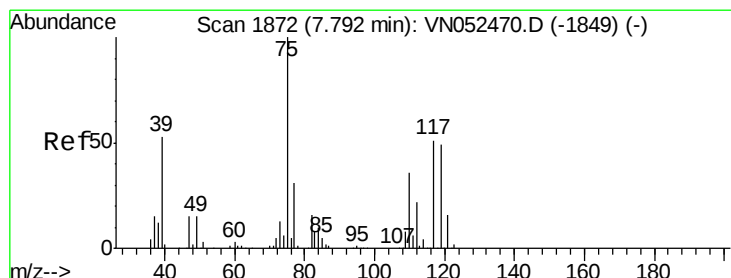
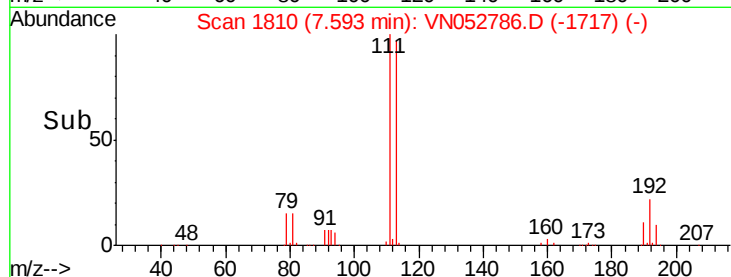
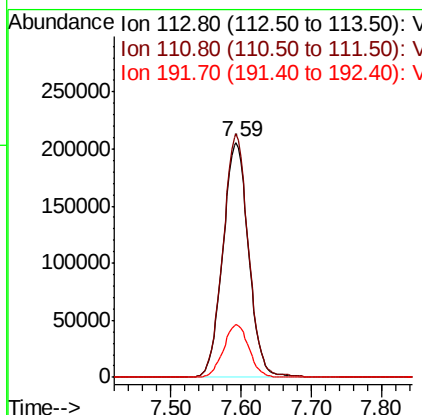
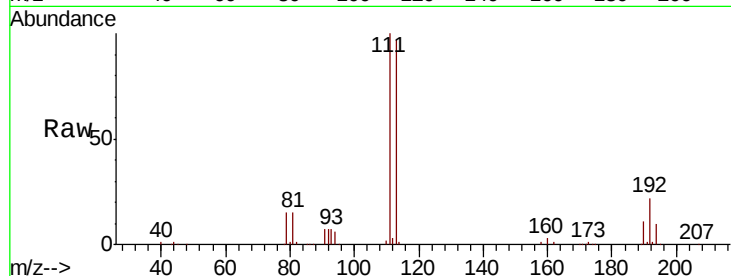




#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. -0.00 min
 Lab File: VN052786.D
 Acq: 11 Dec 2018 7:11

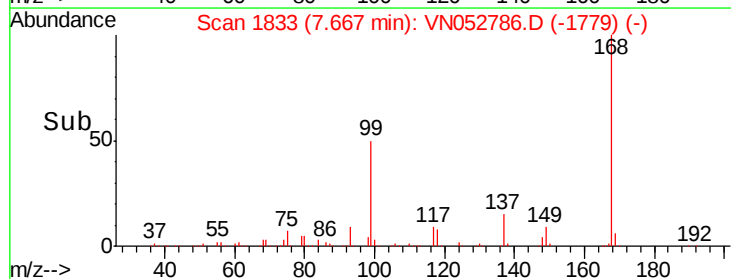
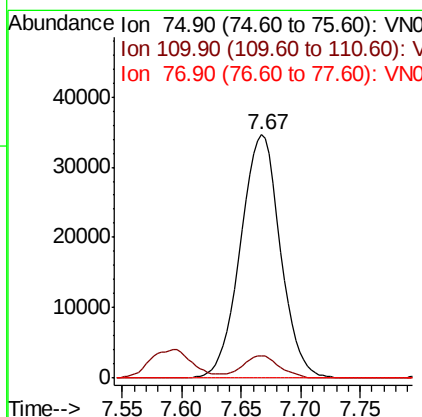
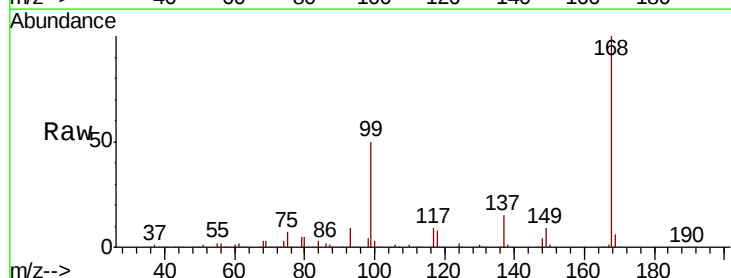
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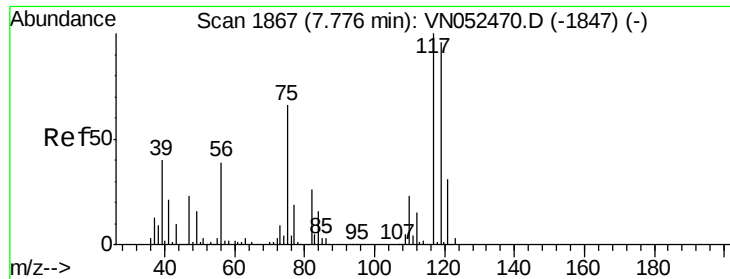
Tot Ion	Ratio	Lower	Upper
113	100		
111	102.4	82.0	123.0
192	22.2	17.0	25.6



#36
 1,1-Dichloropropene
 Concen: 4.630 ug/l
 RT: 7.67 min Scan# 1833
 Delta R.T. -0.13 min
 Lab File: VN052786.D
 Acq: 11 Dec 2018 7:11

Tgt Ion	Ratio	Lower	Upper
75	100		
110	8.3	17.5	52.6#
77	0.0	24.5	36.7#





#38

Carbon Tetrachloride

Concen: 6.500 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052786.D

Acq: 11 Dec 2018 7:11

Instrument :

MSVOA_N

ClientSampleId :

AVE-X-B-BALL-FIELD-S-2

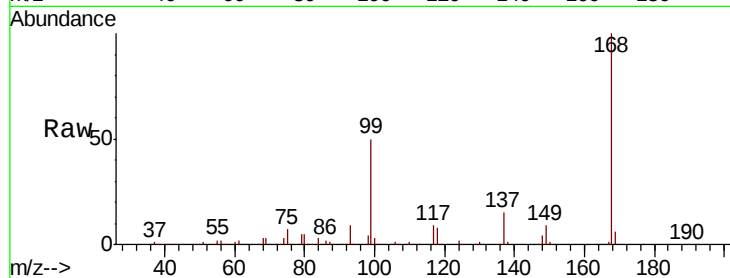
Tot Ion:117 Resp: 102274

Ion Ratio Lower Upper

117 100

119 4.6 76.8 115.2#

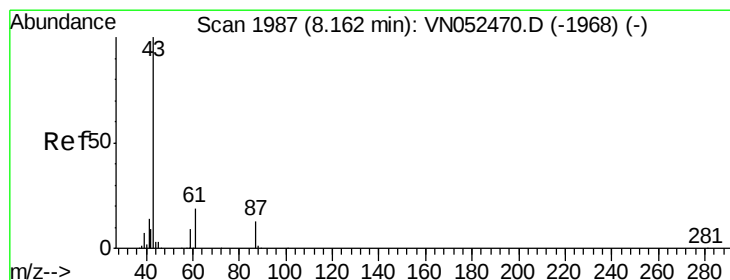
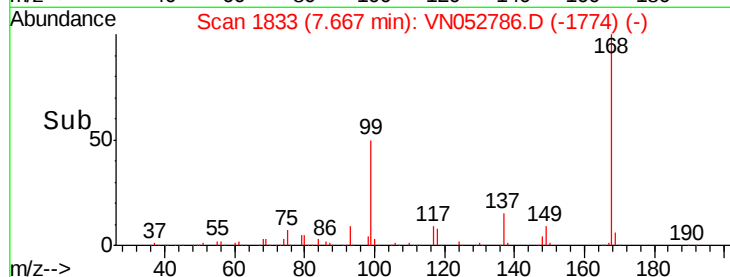
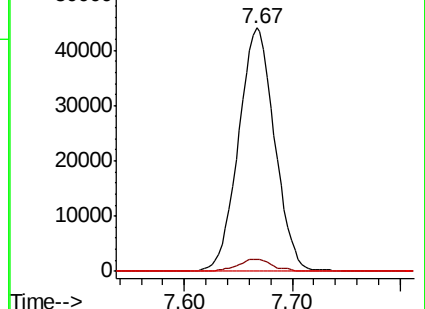
121 0.0 24.9 37.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 3.597 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. 0.00 min

Lab File: VN052786.D

Acq: 11 Dec 2018 7:11

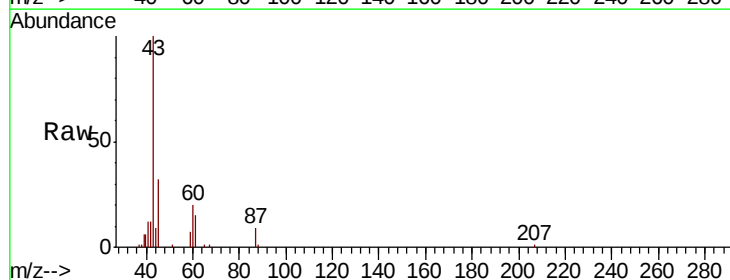
Tgt Ion: 43 Resp: 64578

Ion Ratio Lower Upper

43 100

61 13.6 24.1 36.1#

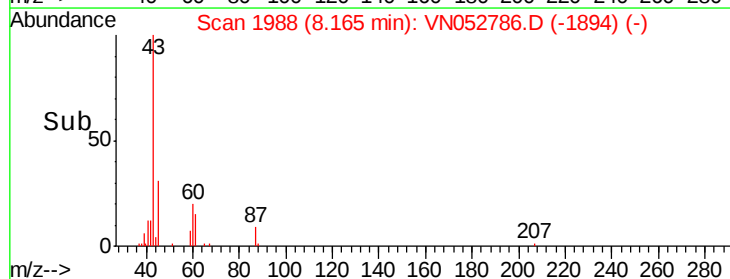
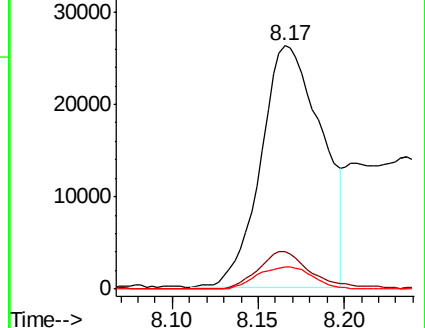
87 8.3 10.6 15.8#

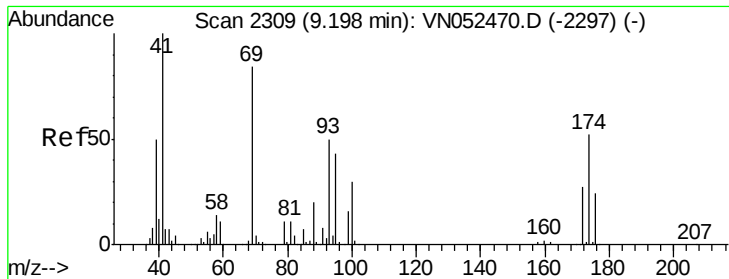


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

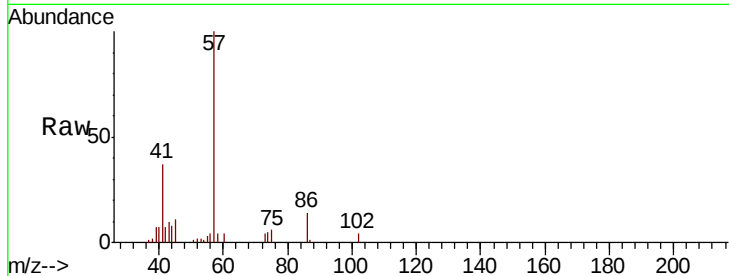




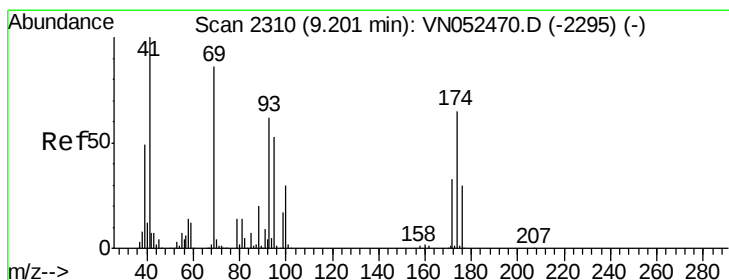
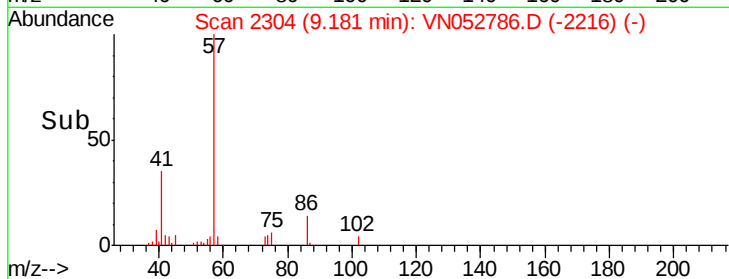
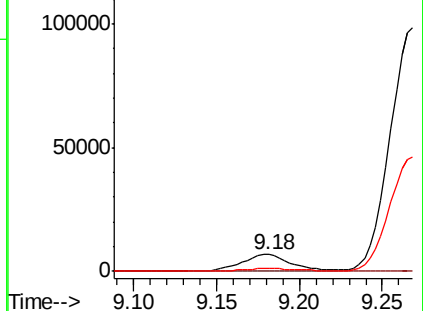
#48
Methyl methacrylate
Concen: 1.417 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052786.D
Acq: 11 Dec 2018 7:11

Instrument :
MSVOA_N
ClientSampleId :
AVE-X-B-BALL-FIELD-S-2

Tot Ion: 41 Resp: 13264
Ion Ratio Lower Upper
41 100
69 0.0 70.0 105.0#
39 21.7 42.6 64.0#

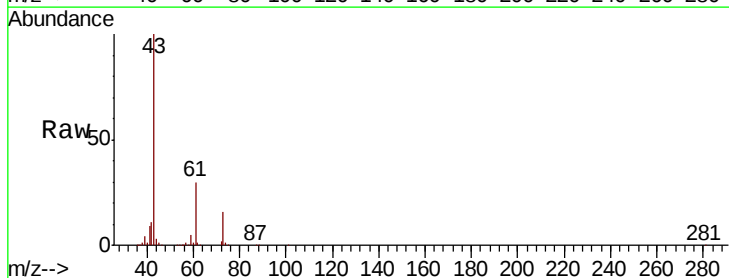


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 69.00 (68.70 to 69.70): VNC
Ion 39.00 (38.70 to 39.70): VNC

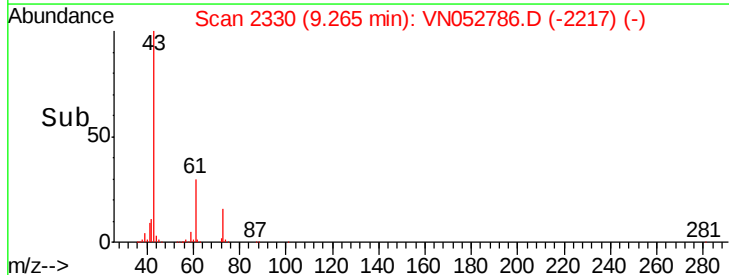
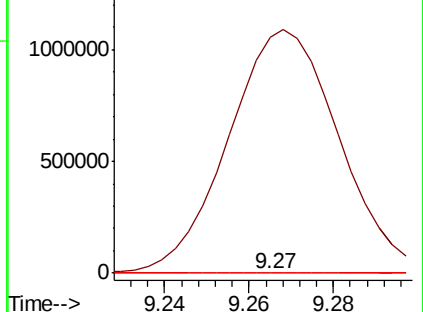


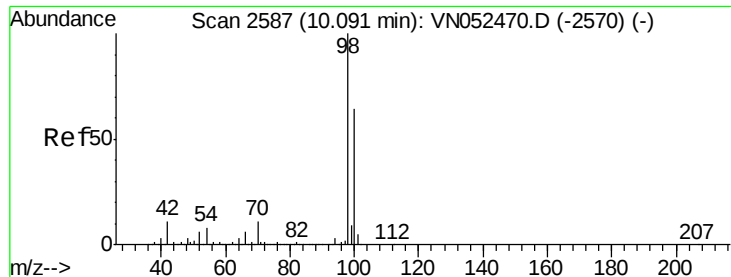
#49
1,4-Dioxane
Concen: 3.016 ug/l
RT: 9.27 min Scan# 2330
Delta R.T. 0.06 min
Lab File: VN052786.D
Acq: 11 Dec 2018 7:11

Tgt Ion: 88 Resp: 293
Ion Ratio Lower Upper
88 100
43 687604.1 26.4 39.6#
58 3146.8 55.4 83.0#



Abundance Ion 88.00 (87.70 to 88.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 58.00 (57.70 to 58.70): VNC





#50

Toluene-d8

Concen: 3.016 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. -0.00 min

Lab File: VN052786.D

Acq: 11 Dec 2018 7:11

Instrument :

MSVOA_N

ClientSampleId :

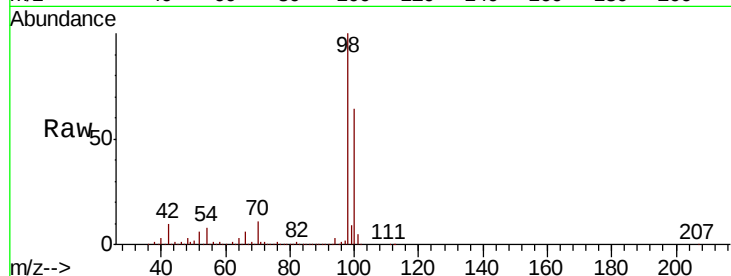
AVE-X-B-BALL-FIELD-S-2

Tot Ion: 98 Resp: 2254845

Ion Ratio Lower Upper

98 100

100 64.1 51.3 76.9



Abundance Ion 98.00 (97.70 to 98.70): VN052470.D (-2570) (-)

Ion 100.00 (99.70 to 100.70): VN052470.D (-2570) (-)

10.09

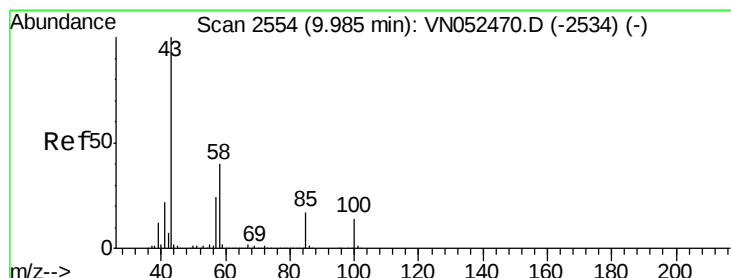
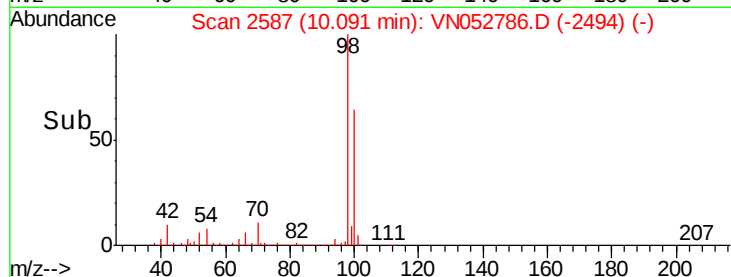
1500000

1000000

500000

0

Time-->



#51

4-Methyl-2-Pentanone

Concen: 0.730 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN052786.D

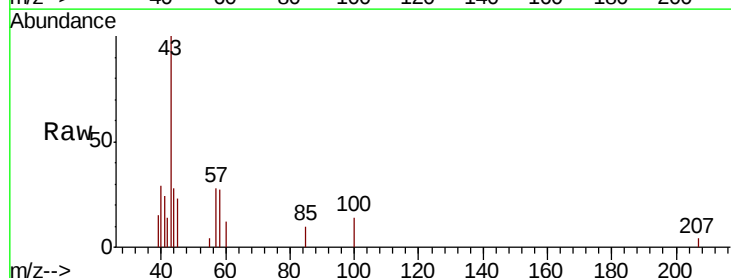
Acq: 11 Dec 2018 7:11

Tgt Ion: 43 Resp: 7351

Ion Ratio Lower Upper

43 100

58 34.5 31.5 47.3



Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-2534) (-)

Ion 58.00 (57.70 to 58.70): VN052470.D (-2534) (-)

12000

10000

8000

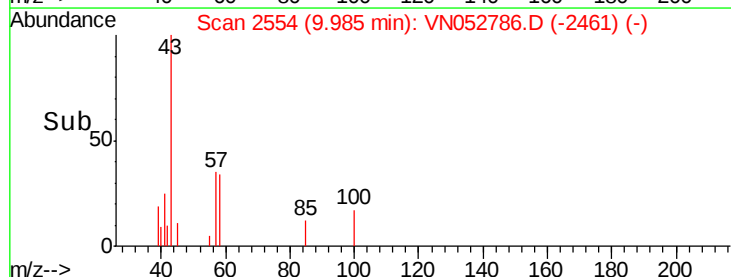
6000

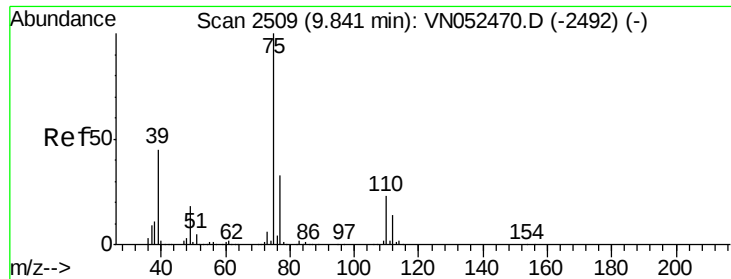
4000

2000

0

Time-->





#54

cis-1,3-Dichloropropene

Concen: 6.308 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052786.D

Acq: 11 Dec 2018 7:11

Instrument :

MSVOA_N

ClientSampleId :

AVE-X-B-BALL-FIELD-S-2

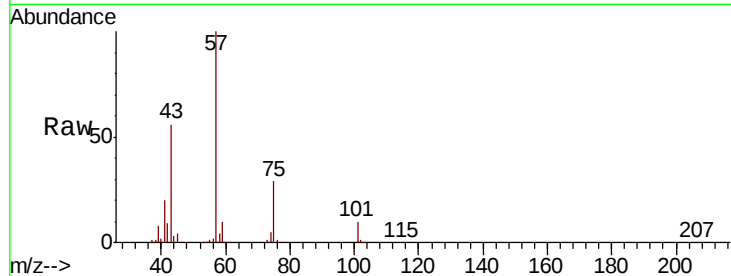
Tot Ion: 75 Resp: 120554

Ion Ratio Lower Upper

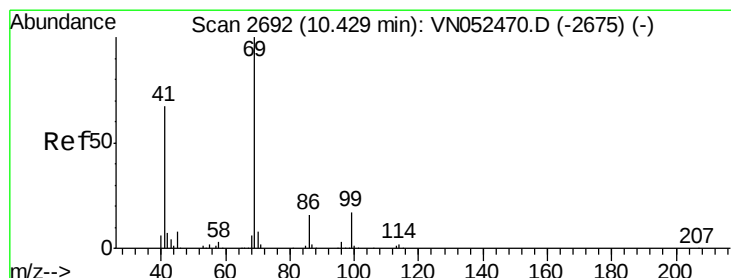
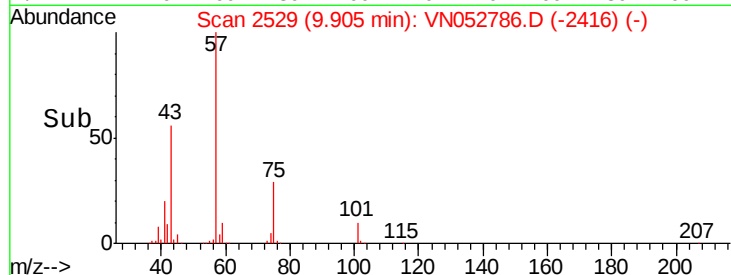
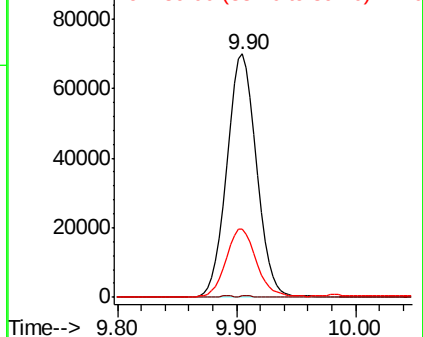
75 100

77 0.5 26.2 39.2#

39 27.9 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO



#56

Ethyl methacrylate

Concen: 2.793 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN052786.D

Acq: 11 Dec 2018 7:11

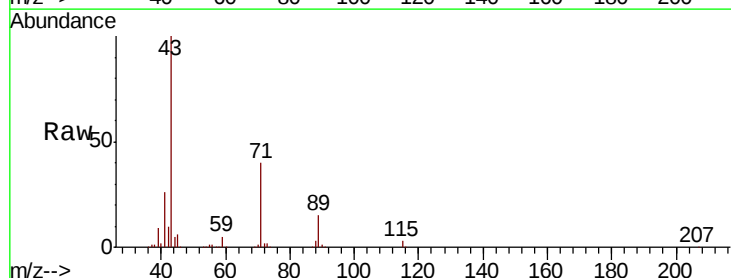
Tgt Ion: 69 Resp: 1589

Ion Ratio Lower Upper

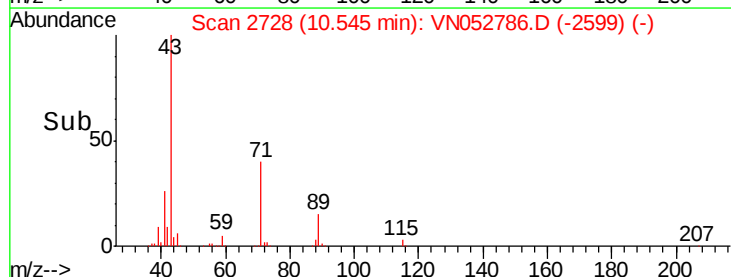
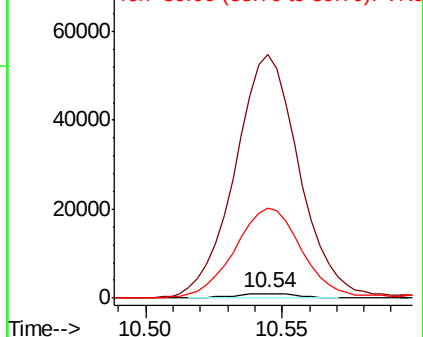
69 100

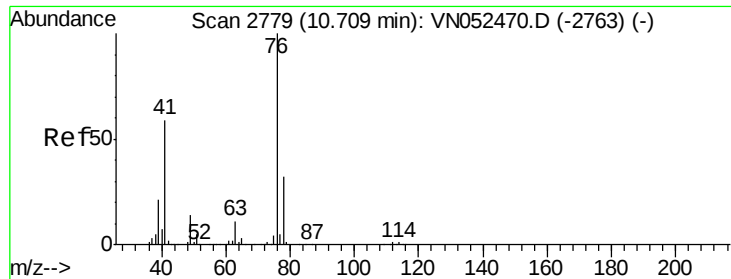
41 5717.4 52.6 79.0#

39 2200.9 25.9 38.9#



Abundance Ion 69.00 (68.70 to 69.70): VNO
Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO





#57

1,3-Dichloropropane

Concen: 1.052 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.05 min

Lab File: VN052786.D

Acq: 11 Dec 2018 7:11

Instrument :

MSVOA_N

ClientSampleId :

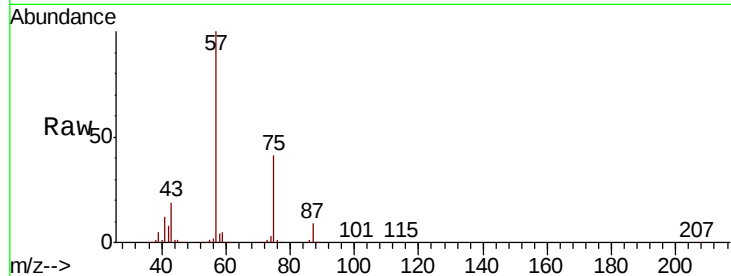
AVE-X-B-BALL-FIELD-S-2

Tot Ion: 76 Resp: 20102

Ion Ratio Lower Upper

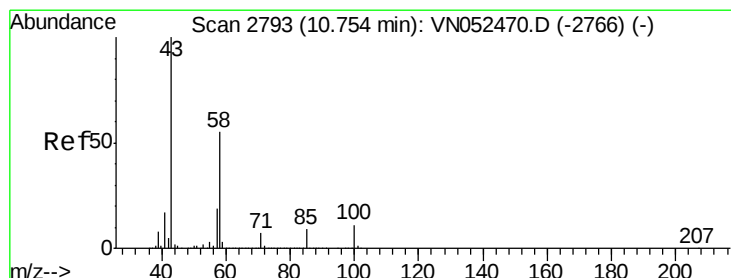
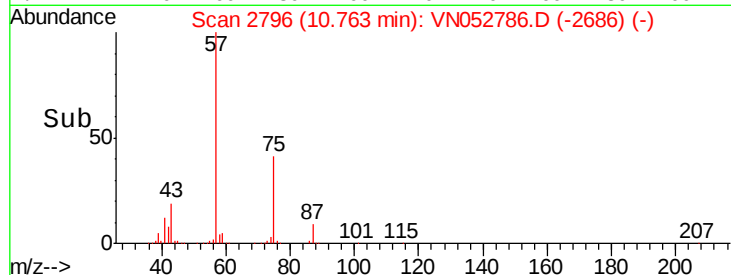
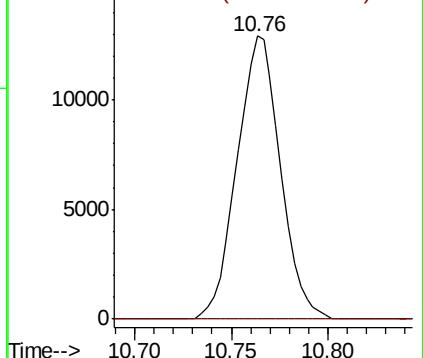
76 100

78 0.0 25.6 38.4#



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#59

2-Hexanone

Concen: 40.092 ug/l

RT: 10.76 min Scan# 2796

Delta R.T. 0.01 min

Lab File: VN052786.D

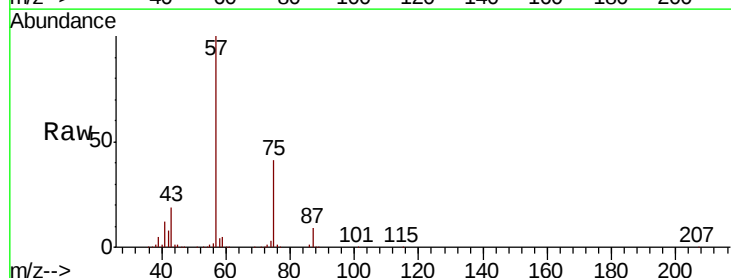
Acq: 11 Dec 2018 7:11

Tgt Ion: 43 Resp: 271032

Ion Ratio Lower Upper

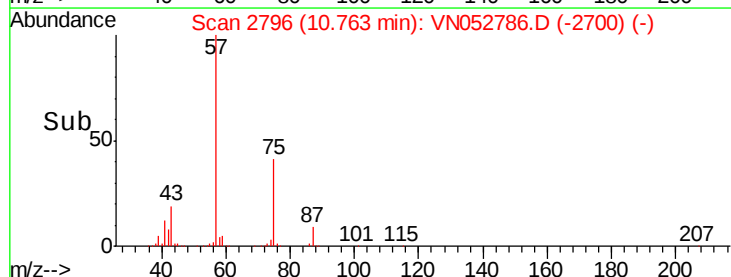
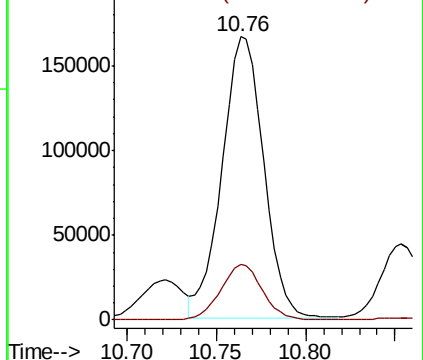
43 100

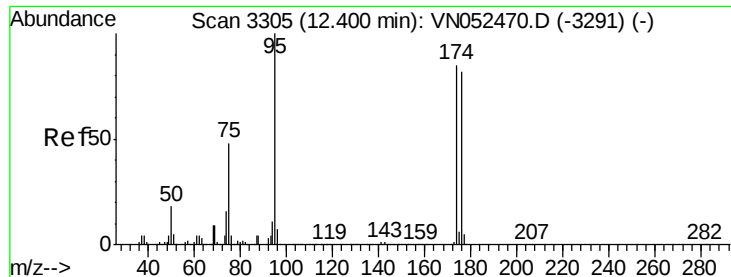
58 19.6 27.4 82.0#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

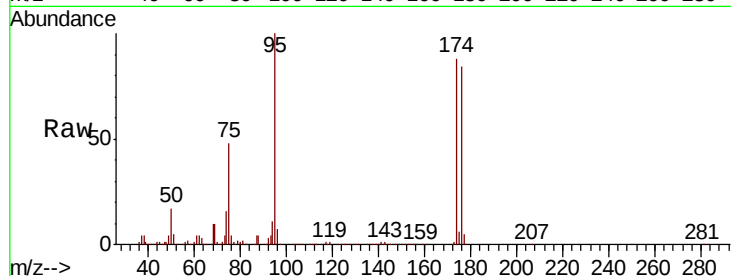




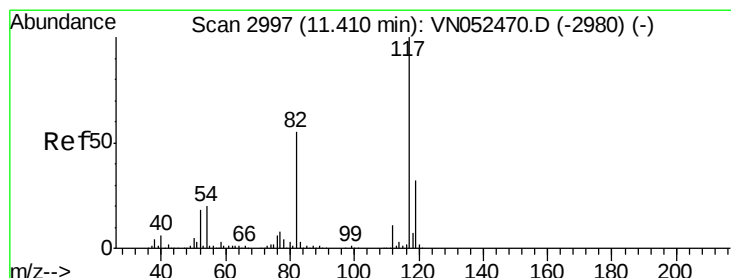
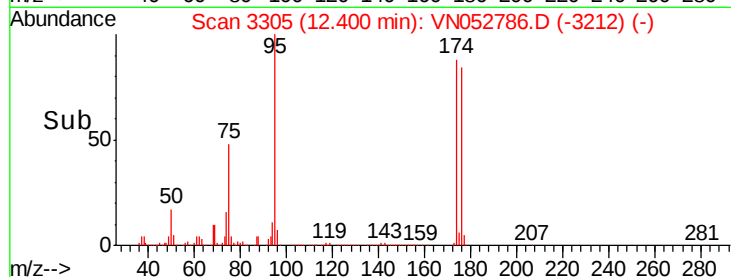
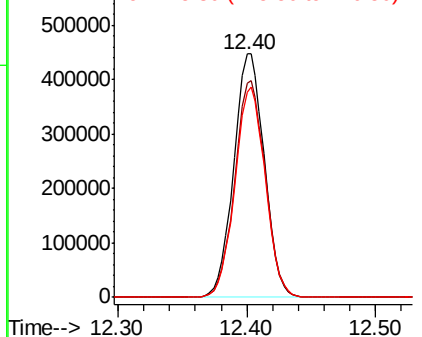
#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.00 min
Lab File: VN052786.D
Acq: 11 Dec 2018 7:11

Instrument :
MSVOA_N
ClientSampleId :
AVE-X-B-BALL-FIELD-S-2

Tot Ion: 95 Resp: 733802
Ion Ratio Lower Upper
95 100
174 89.1 0.0 173.0
176 85.9 0.0 166.2

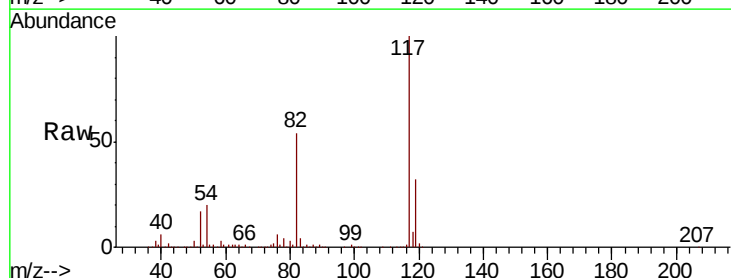


Abundance Ion 94.90 (94.60 to 95.60): VN052470.D (-3291) (-)
Ion 173.80 (173.50 to 174.50): VN052470.D (-3291) (-)
Ion 175.80 (175.50 to 176.50): VN052470.D (-3291) (-)

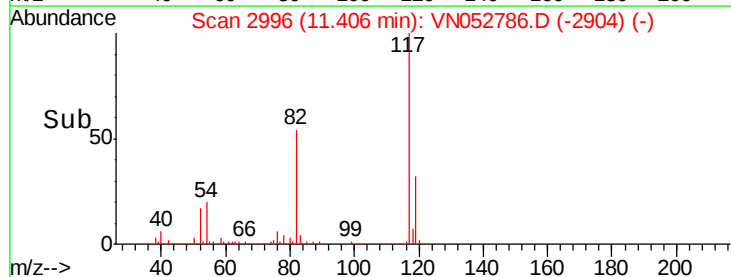
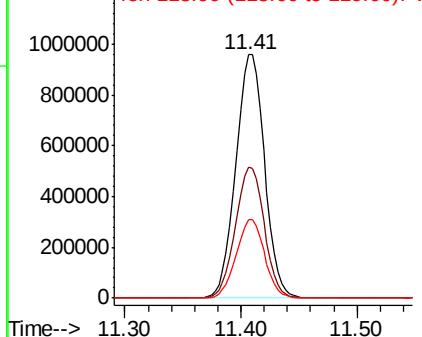


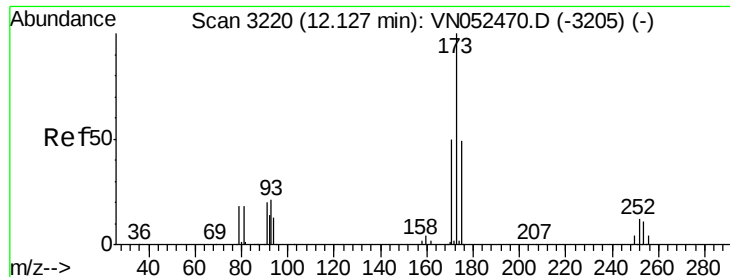
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052786.D
Acq: 11 Dec 2018 7:11

Tgt Ion: 117 Resp: 1641090
Ion Ratio Lower Upper
117 100
82 53.9 43.6 65.4
119 32.0 25.4 38.2



Abundance Ion 116.90 (116.60 to 117.60): VN052470.D (-2980) (-)
Ion 82.00 (81.70 to 82.70): VN052470.D (-2980) (-)
Ion 118.90 (118.60 to 119.60): VN052470.D (-2980) (-)





#71

Bromoform

Concen: 0.609 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN052786.D

Acq: 11 Dec 2018 7:11

Instrument :

MSVOA_N

ClientSampleId :

AVE-X-B-BALL-FIELD-S-2

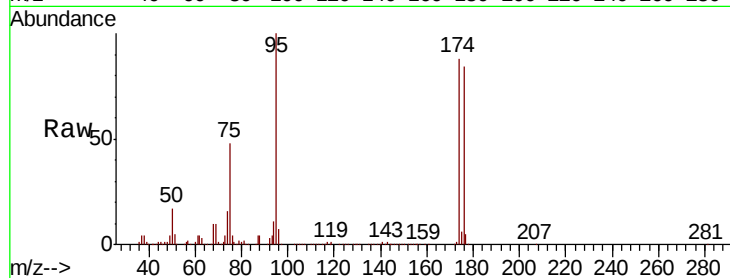
Tot Ion:173 Resp: 4744

Ion Ratio Lower Upper

173 100

175 871.8 24.4 73.2#

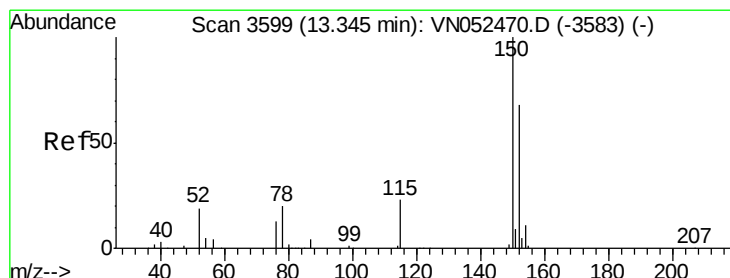
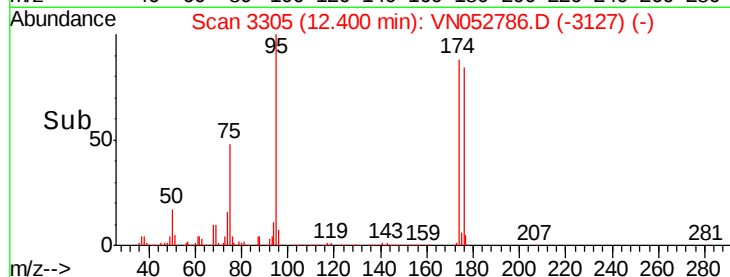
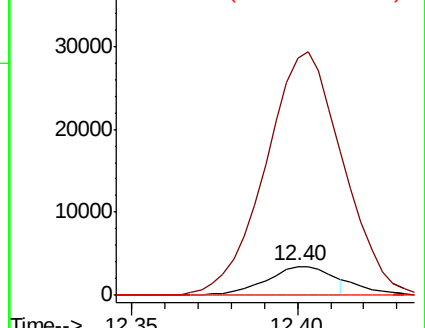
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. -0.00 min

Lab File: VN052786.D

Acq: 11 Dec 2018 7:11

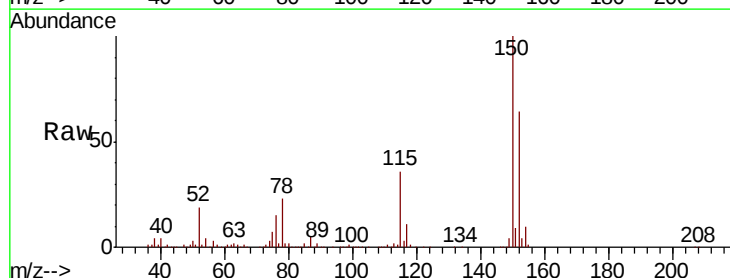
Tgt Ion:152 Resp: 671851

Ion Ratio Lower Upper

152 100

115 55.8 28.4 85.2

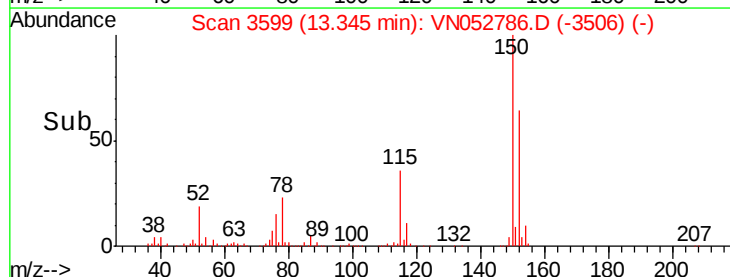
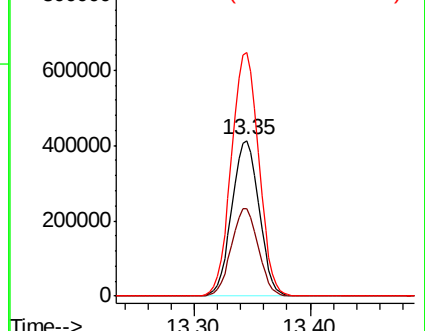
150 157.3 0.0 346.0

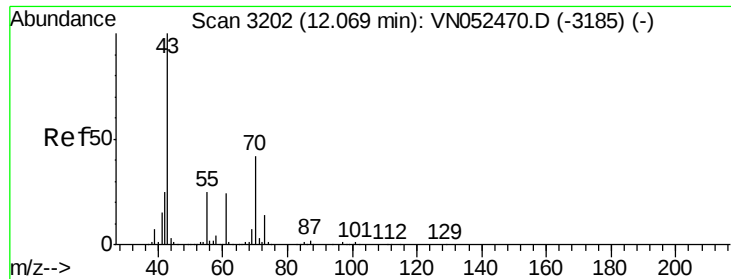


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

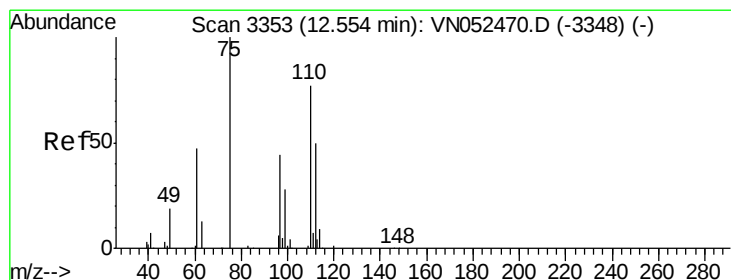
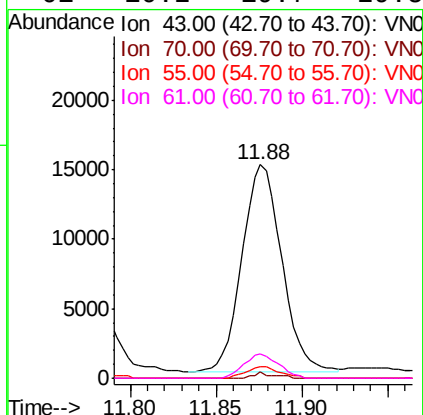
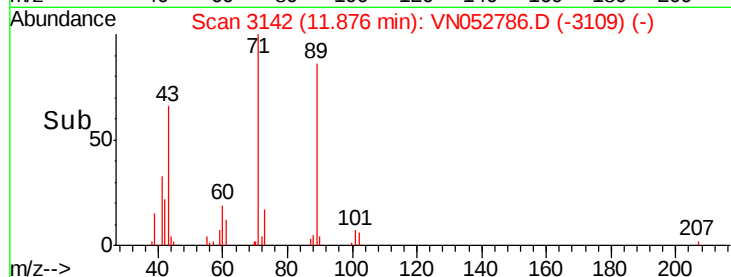
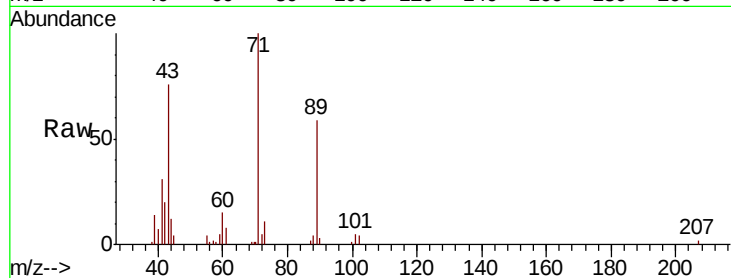




#74
N-amyl acetate
Concen: 1.792 ug/l
RT: 11.88 min Scan# 3142
Delta R.T. -0.19 min
Lab File: VN052786.D
Acq: 11 Dec 2018 7:11

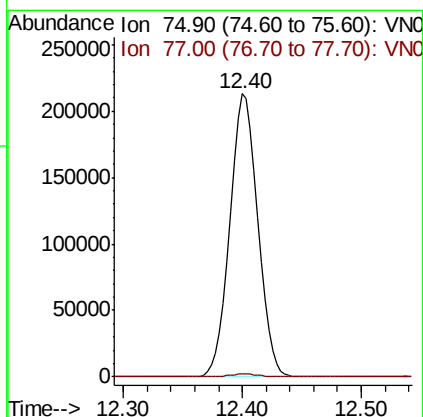
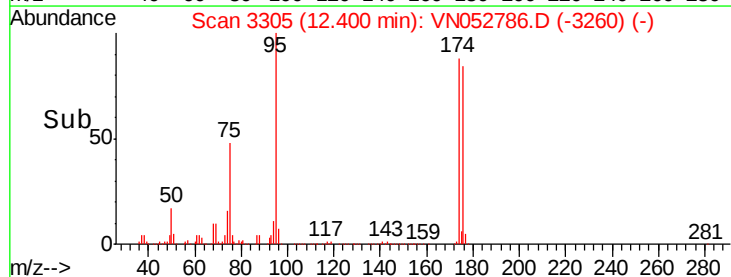
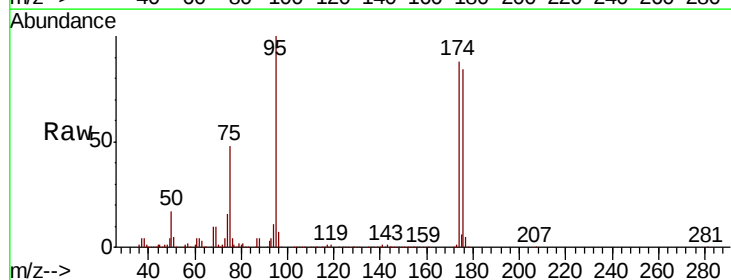
Instrument :
MSVOA_N
ClientSampleId :
AVE-X-B-BALL-FIELD-S-2

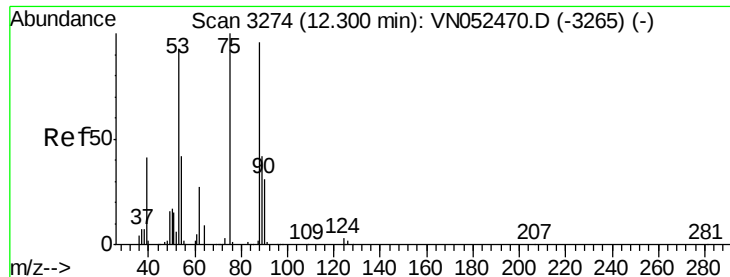
Tot Ion: 43 Resp: 23868
Ion Ratio Lower Upper
43 100
70 1.5 33.8 50.8#
55 4.8 20.0 30.0#
61 10.2 19.7 29.5#



#76
1,2,3-Trichloropropane
Concen: 33.487 ug/l
RT: 12.40 min Scan# 3305
Delta R.T. -0.15 min
Lab File: VN052786.D
Acq: 11 Dec 2018 7:11

Tgt Ion: 75 Resp: 346934
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 111.830 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052786.D

Acq: 11 Dec 2018 7:11

Instrument :

MSVOA_N

ClientSampleId :

AVE-X-B-BALL-FIELD-S-2

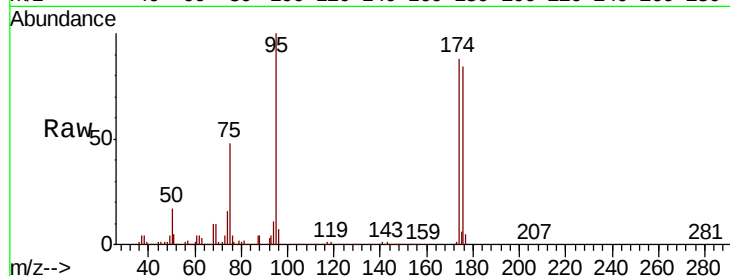
Tot Ion: 75 Resp: 346934

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

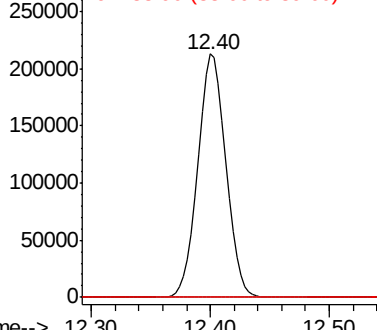
89 0.0 35.4 53.2#



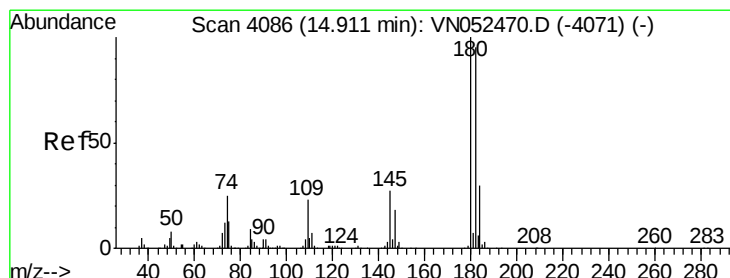
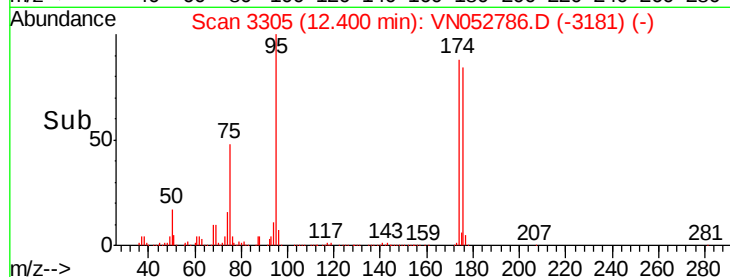
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



Time-->



#93

1,2,4-Trichlorobenzene

Concen: 2.845 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN052786.D

Acq: 11 Dec 2018 7:11

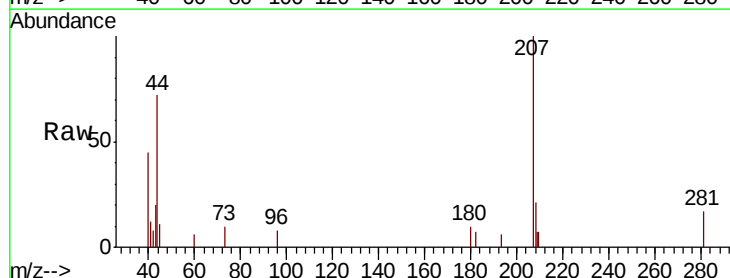
Tgt Ion:180 Resp: 199

Ion Ratio Lower Upper

180 100

182 57.3 47.8 143.4

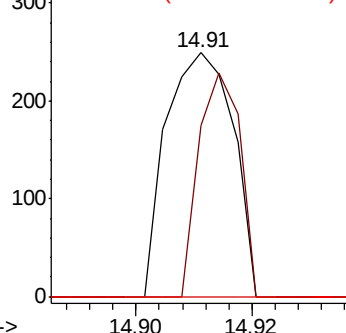
145 0.0 14.1 42.3#



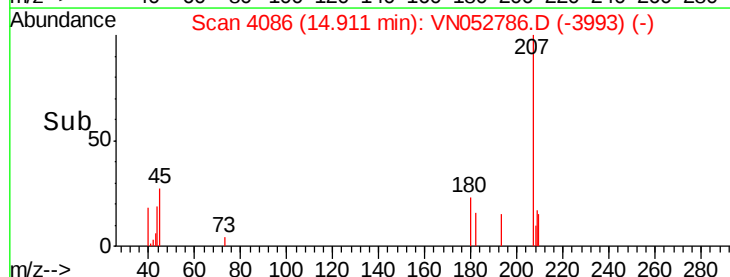
Abundance Ion 179.80 (179.50 to 180.50): V

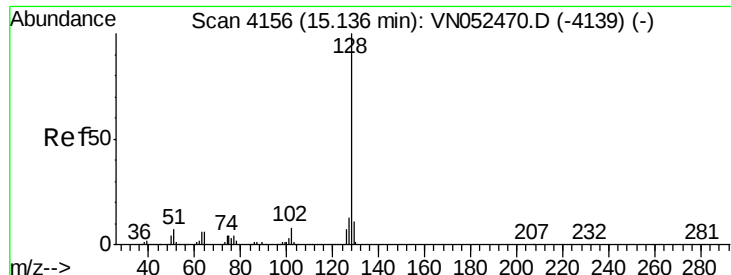
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



Time-->





#95
Naphthalene
Concen: 3.465 ug/l
RT: 15.13 min Scan# 4155
Delta R.T. -0.00 min
Lab File: VN052786.D
Acq: 11 Dec 2018 7:11

Instrument :
MSVOA_N
ClientSampleId :
AVE-X-B-BALL-FIELD-S-2

Tot Ion	Ratio	Lower	Upper
128	100		
127	0.0	10.2	15.2#
129	0.0	8.7	13.1#

