

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX031419\
 Data File : VX008087.D
 Acq On : 14 Mar 2019 23:20
 Operator : JC/SP
 Sample : K1839-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 RE109D2-20190307

Quant Time: Mar 15 04:29:46 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X031419W.M
 Quant Title : SW846 8260
 QLast Update : Fri Mar 15 03:56:35 2019
 Response via : Initial Calibration

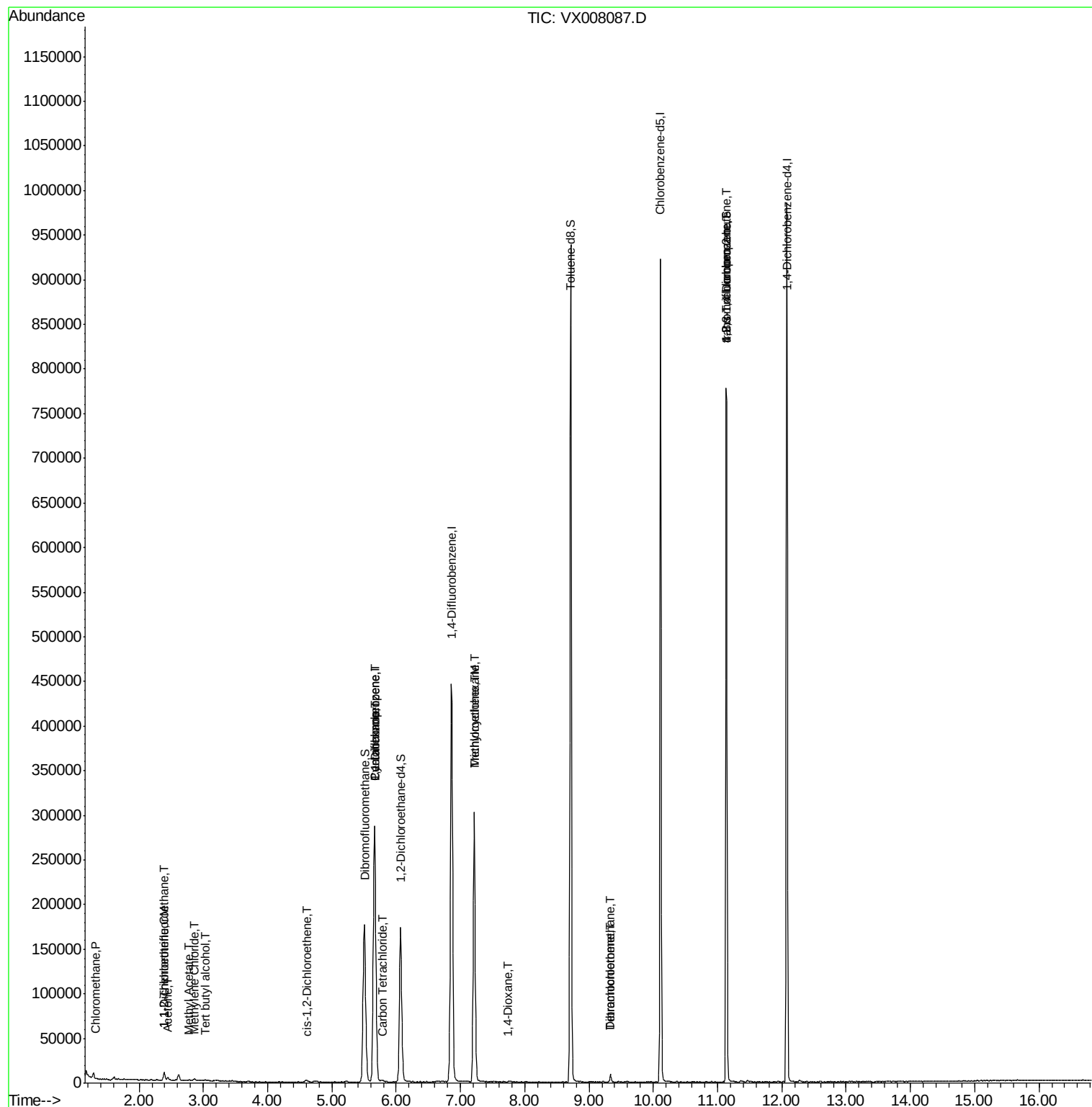
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	313569	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	481275	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	453732	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	221527	50.00	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.07	65	159023	50.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.54%	
35) Dibromofluoromethane	5.51	113	153711	50.36	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.72%	
50) Toluene-d8	8.71	98	575816	49.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.22%	
62) 4-Bromofluorobenzene	11.13	95	212196	51.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.06%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.33	50	613	0.207	ug/l #	81
5) Bromomethane	1.65	94	204	Below Cal		89
6) Chloroethane	1.73	64	309	Below Cal	#	43
9) 1,1,2-Trichlorotrifluoroet	2.40	101	3036	1.200	ug/l	98
11) Tert butyl alcohol	3.02	59	731	1.196	ug/l #	73
12) 1,1-Dichloroethene	2.39	96	701	0.293	ug/l #	78
16) Acetone	2.45	43	3213	2.152	ug/l #	84
18) Methyl Acetate	2.78	43	833	0.258	ug/l #	65
20) Methylene Chloride	2.85	84	676	0.253	ug/l #	73
27) cis-1,2-Dichloroethene	4.60	96	1285	0.420	ug/l	89
31) Cyclohexane	5.67	56	4346	0.961	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	18015	4.550	ug/l #	49
38) Carbon Tetrachloride	5.78	117	1255	0.329	ug/l	87
39) Methylcyclohexane	7.21	83	1303	0.257	ug/l #	1
44) Trichloroethene	7.21	130	125883	35.961	ug/l	98
49) 1,4-Dioxane	7.75	88	897	11.620	ug/l	92
60) Dibromochloromethane	9.34	129	1537	0.475	ug/l #	11
64) Tetrachloroethene	9.34	164	1594	0.434	ug/l #	82
76) 1,2,3-Trichloropropane	11.13	75	94721	24.620	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	94721	70.060	ug/l #	11

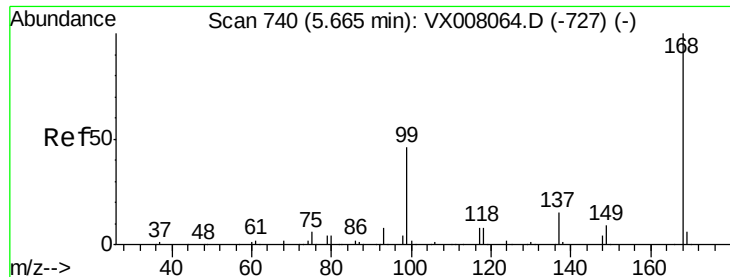
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.00 min

Lab File: VX008087.D

Acq: 14 Mar 2019 23:20

Instrument :

MSVOA_X

ClientSampleId :

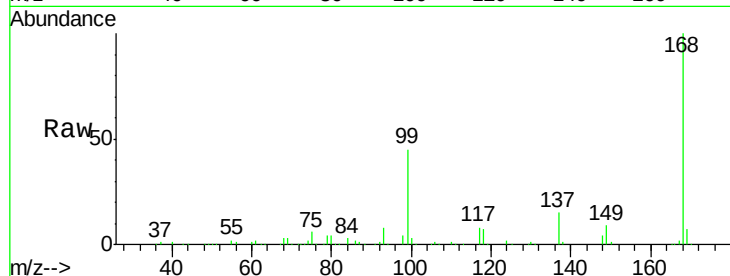
RE109D2-20190307

Tot Ion:168 Resp: 313569

Ion Ratio Lower Upper

168 100

99 44.8 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

120000

100000

80000

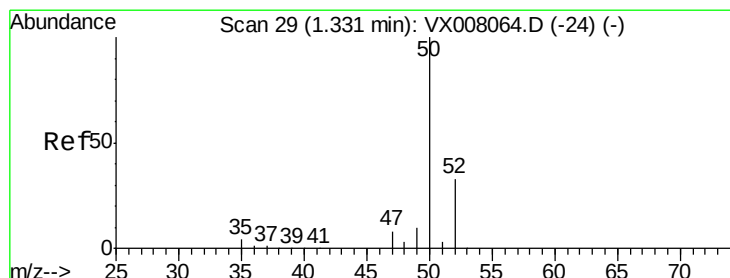
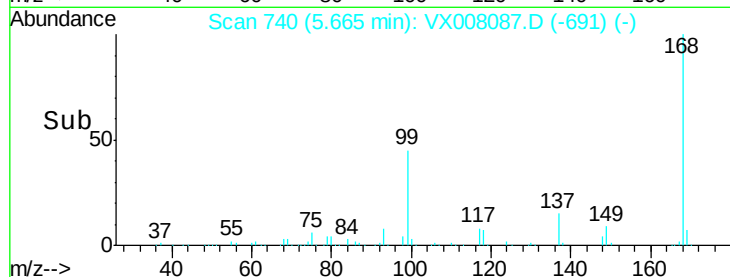
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: 0.207 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.00 min

Lab File: VX008087.D

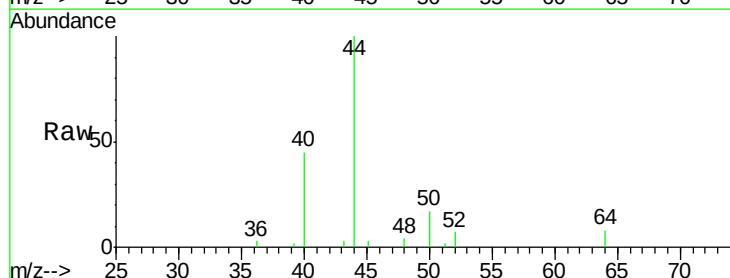
Acq: 14 Mar 2019 23:20

Tgt Ion: 50 Resp: 613

Ion Ratio Lower Upper

50 100

52 43.9 26.5 39.7#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.33

600

500

400

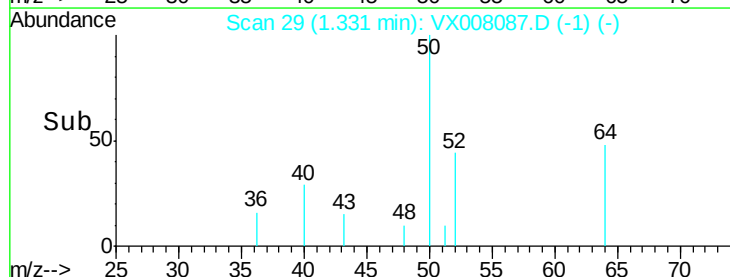
300

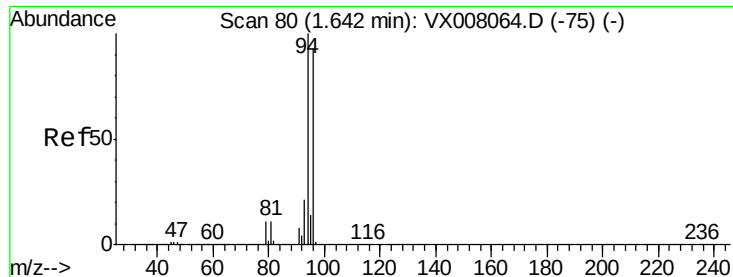
200

100

0

Time--> 1.30 1.35





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX008087.D

Acq: 14 Mar 2019 23:20

Instrument :

MSVOA_X

ClientSampleId :

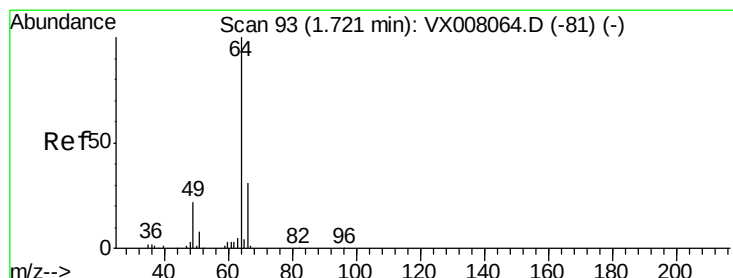
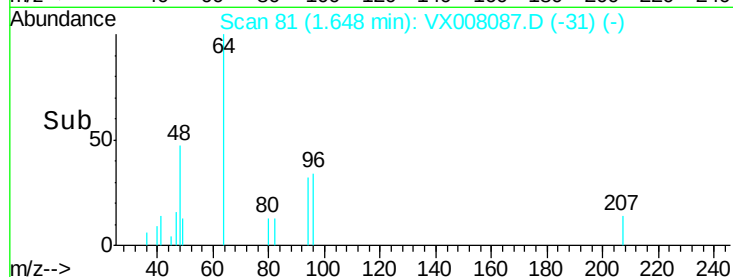
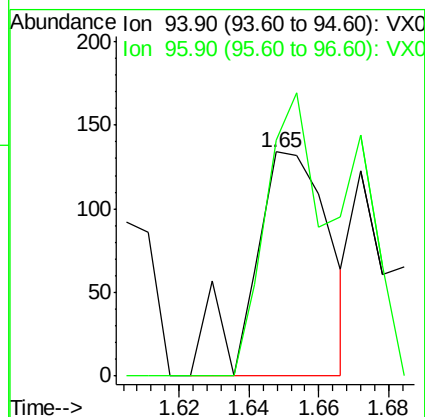
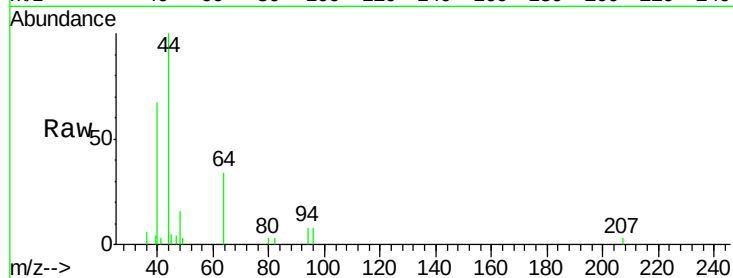
RE109D2-20190307

Tot Ion: 94 Resp: 204

Ion Ratio Lower Upper

94 100

96 105.2 75.5 113.3



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX008087.D

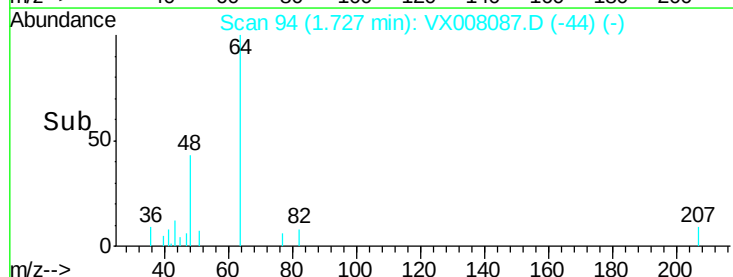
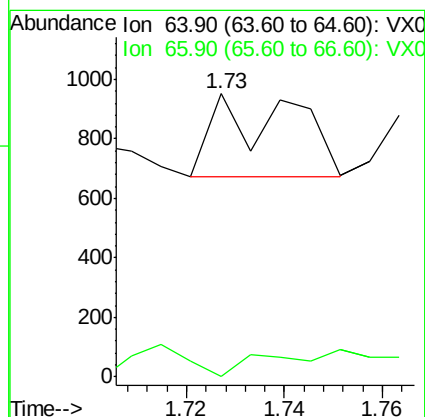
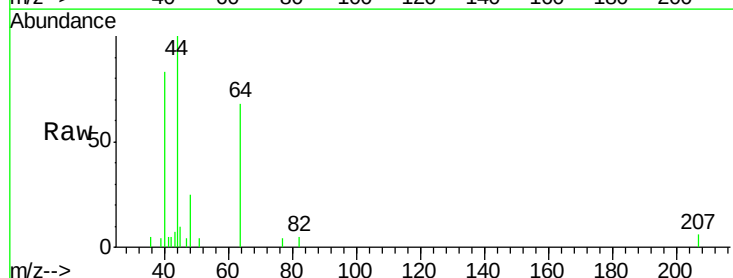
Acq: 14 Mar 2019 23:20

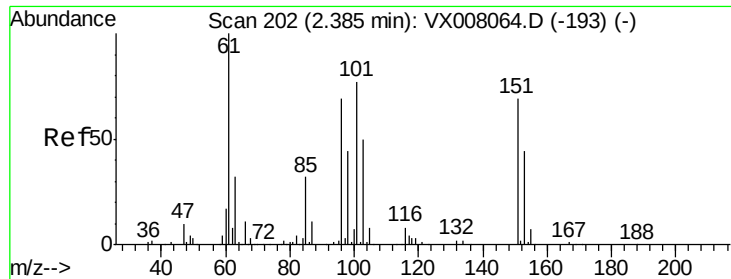
Tgt Ion: 64 Resp: 309

Ion Ratio Lower Upper

64 100

66 0.0 25.2 37.8#





#9

1,1,2-Trichlorotrifluoroethane

Concen: 1.200 ug/l

RT: 2.40 min Scan# 204

Delta R.T. 0.01 min

Lab File: VX008087.D

Acq: 14 Mar 2019 23:20

Instrument :

MSVOA_X

ClientSampleId :

RE109D2-20190307

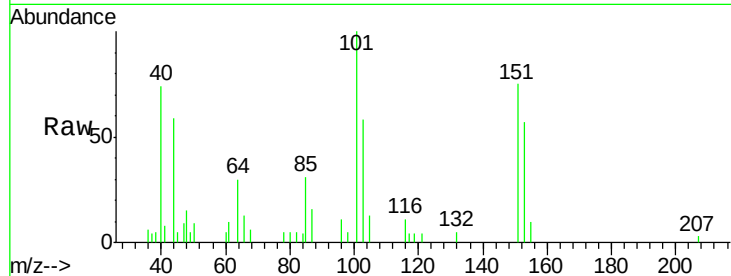
Tot Ion:101 Resp: 3036

Ion Ratio Lower Upper

101 100

85 41.7 33.8 50.6

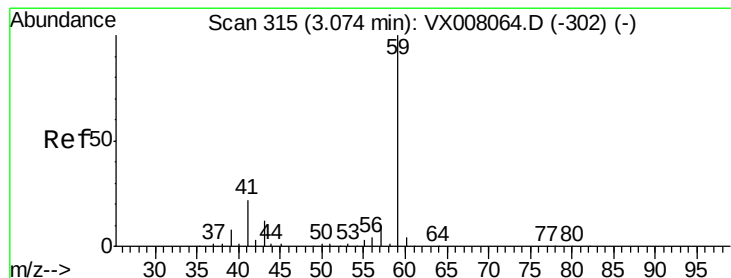
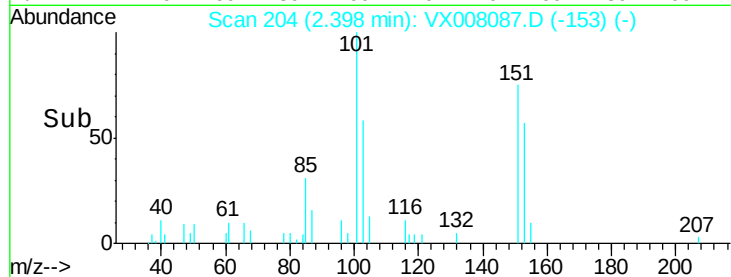
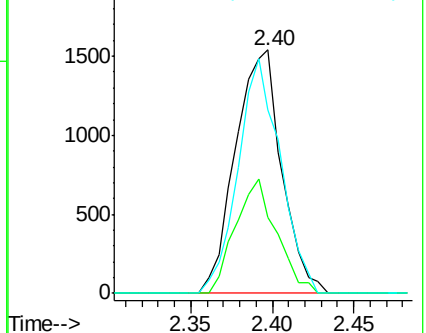
151 88.4 69.1 103.7



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 84.90 (84.60 to 85.60): VX0

Ion 150.80 (150.50 to 151.50): V



#11

Tert butyl alcohol

Concen: 1.196 ug/l

RT: 3.02 min Scan# 306

Delta R.T. -0.05 min

Lab File: VX008087.D

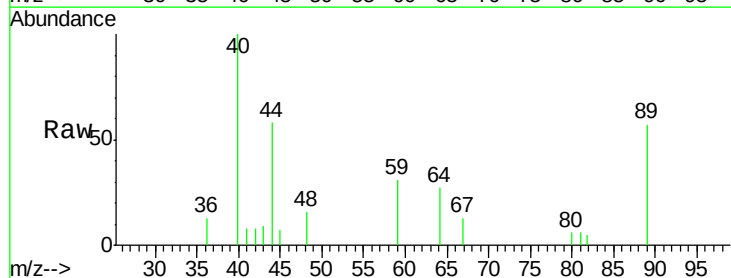
Acq: 14 Mar 2019 23:20

Tgt Ion: 59 Resp: 731

Ion Ratio Lower Upper

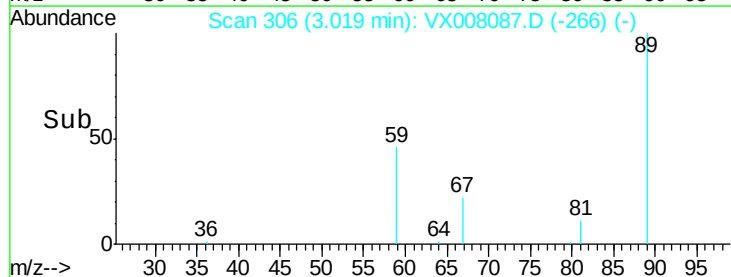
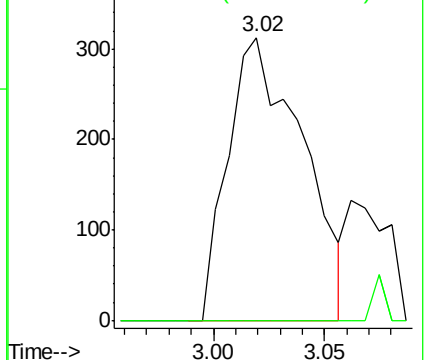
59 100

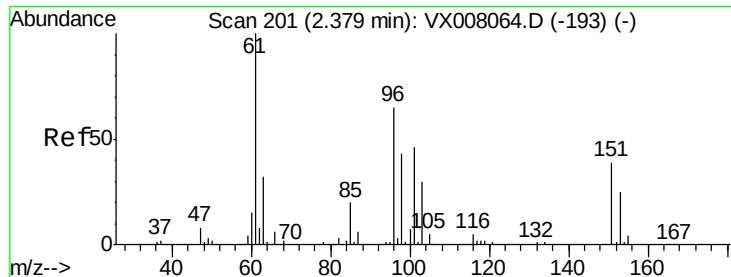
57 0.0 8.2 12.2#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 0.293 ug/l

RT: 2.39 min Scan# 202

Delta R.T. 0.01 min

Lab File: VX008087.D

Acq: 14 Mar 2019 23:20

Instrument :

MSVOA_X

ClientSampleId :

RE109D2-20190307

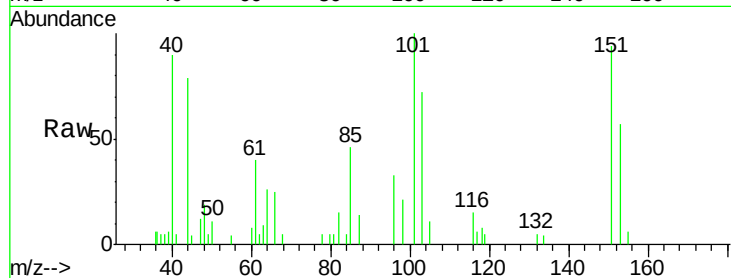
Tot Ion: 96 Resp: 701

Ion Ratio Lower Upper

96 100

61 121.8 129.8 194.6#

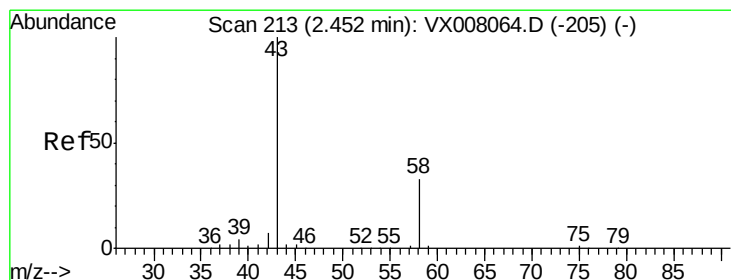
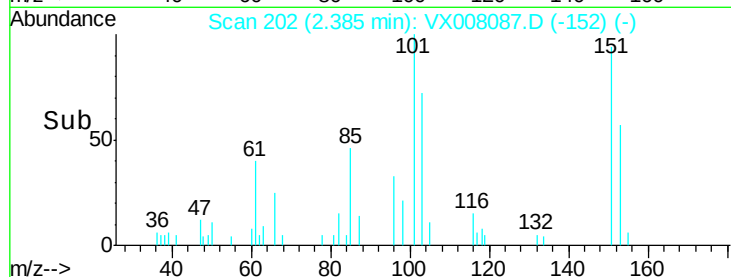
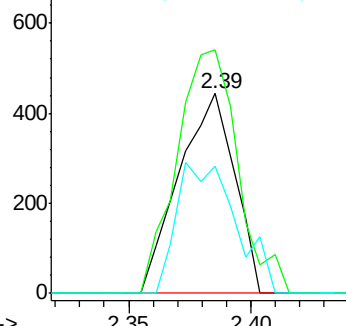
98 63.7 51.0 76.6



Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#16

Acetone

Concen: 2.152 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.01 min

Lab File: VX008087.D

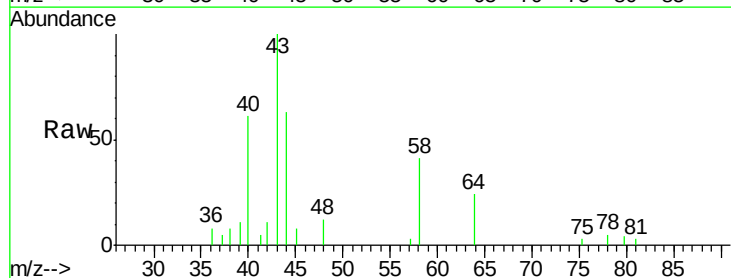
Acq: 14 Mar 2019 23:20

Tgt Ion: 43 Resp: 3213

Ion Ratio Lower Upper

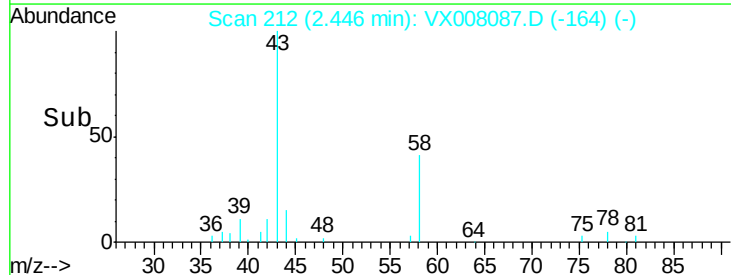
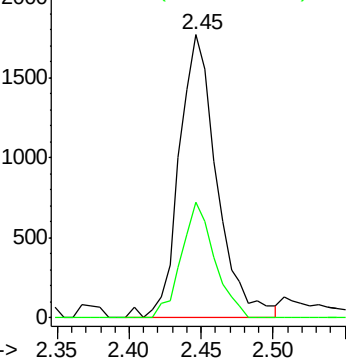
43 100

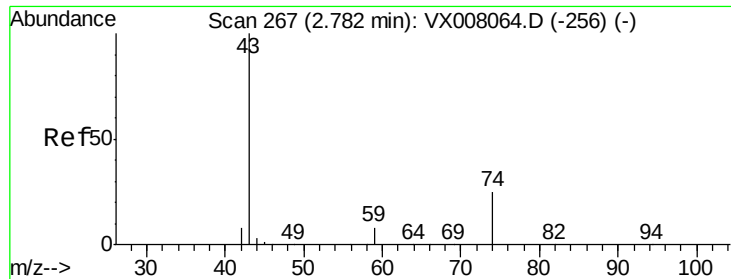
58 41.1 25.5 38.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

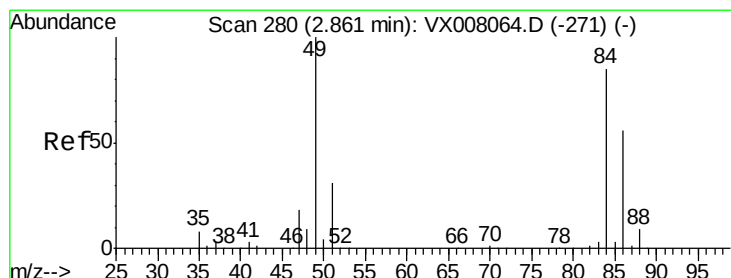
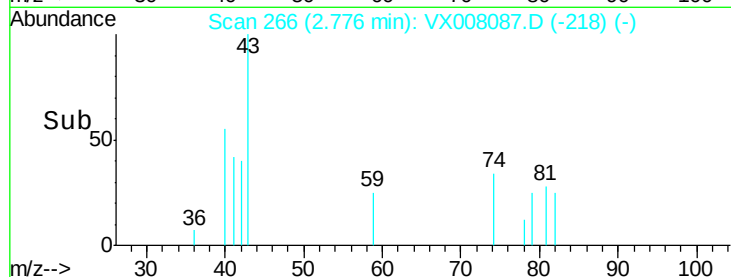
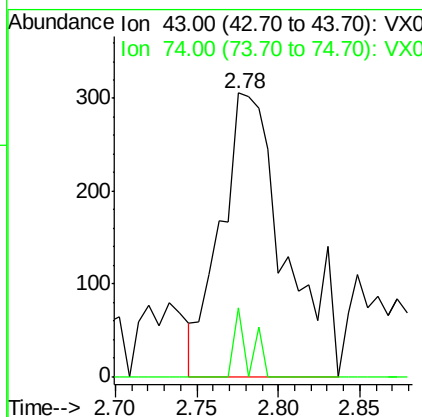
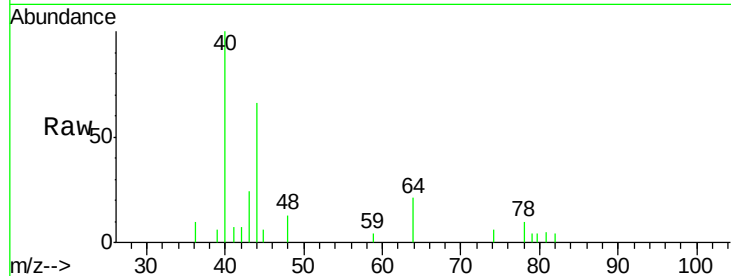




#18
Methyl Acetate
Concen: 0.258 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX008087.D
Acq: 14 Mar 2019 23:20

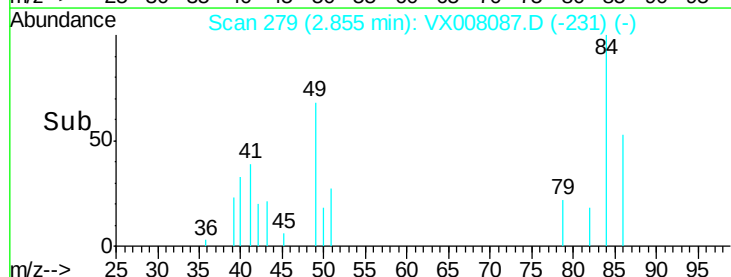
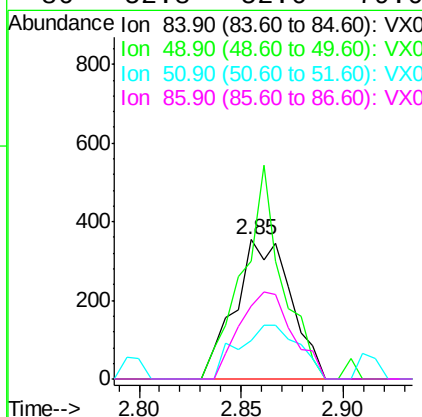
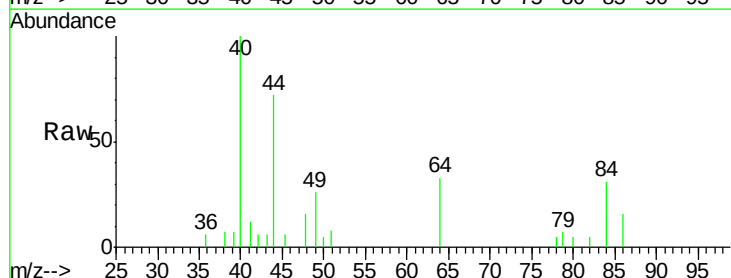
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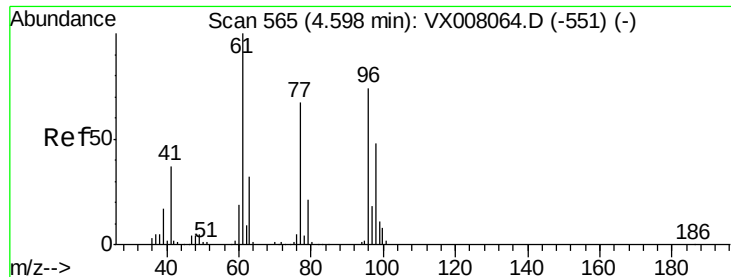
Tot Ion: 43 Resp: 833
Ion Ratio Lower Upper
43 100
74 5.5 17.8 26.6#



#20
Methylene Chloride
Concen: 0.253 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX008087.D
Acq: 14 Mar 2019 23:20

Tgt Ion: 84 Resp: 676
Ion Ratio Lower Upper
84 100
49 84.7 99.3 148.9#
51 27.4 31.3 46.9#
86 52.8 52.6 79.0





#27

cis-1,2-Dichloroethene

Concen: 0.420 ug/l

RT: 4.60 min Scan# 566

Delta R.T. 0.01 min

Lab File: VX008087.D

Acq: 14 Mar 2019 23:20

Instrument :

MSVOA_X

ClientSampleId :

RE109D2-20190307

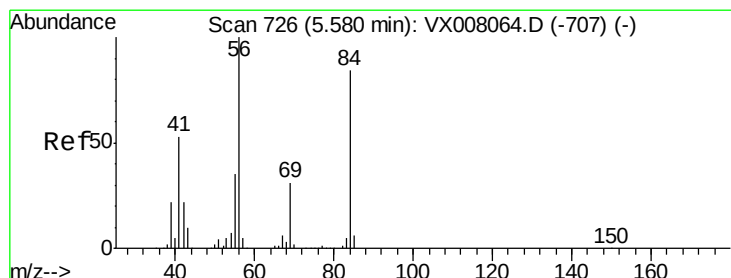
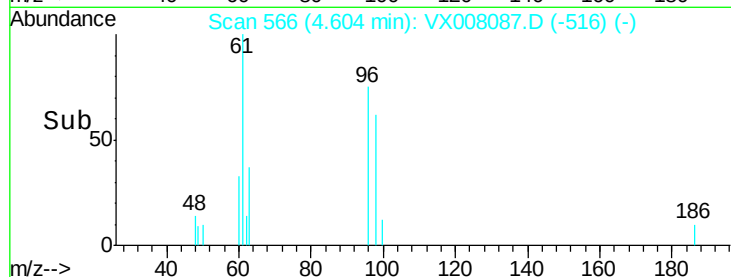
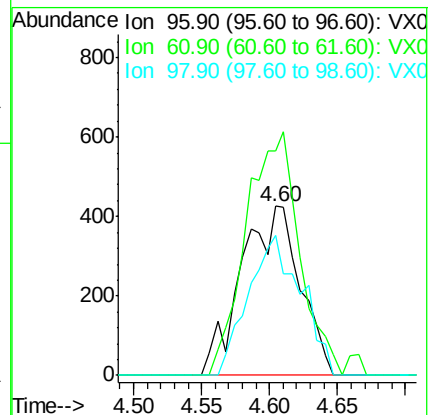
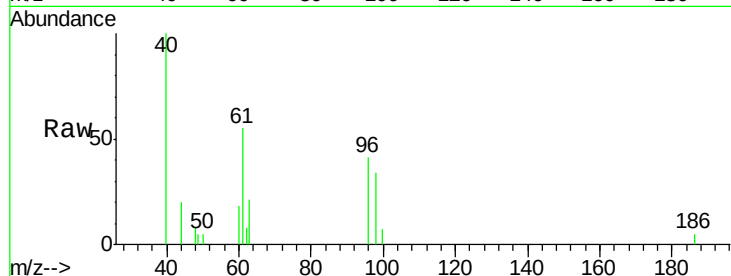
Tot Ion: 96 Resp: 1285

Ion Ratio Lower Upper

96 100

61 131.1 0.0 288.0

98 74.4 0.0 129.0



#31

Cyclohexane

Concen: 0.961 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX008087.D

Acq: 14 Mar 2019 23:20

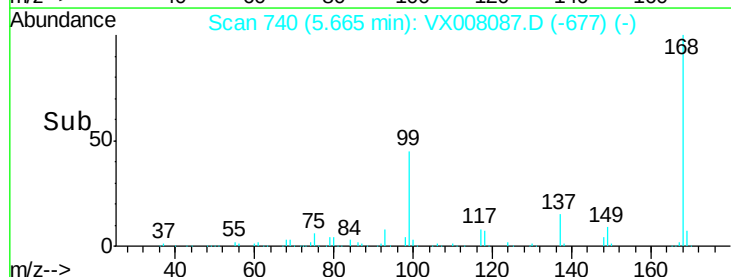
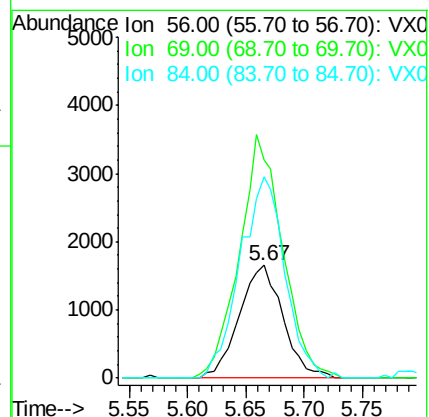
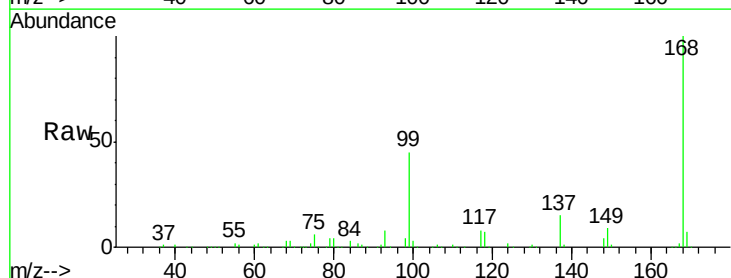
Tgt Ion: 56 Resp: 4346

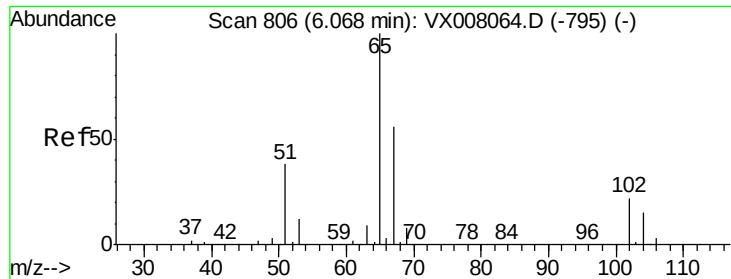
Ion Ratio Lower Upper

56 100

69 192.6 24.0 36.0#

84 178.3 65.3 97.9#

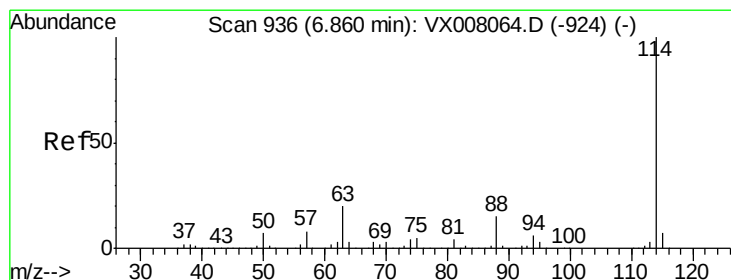
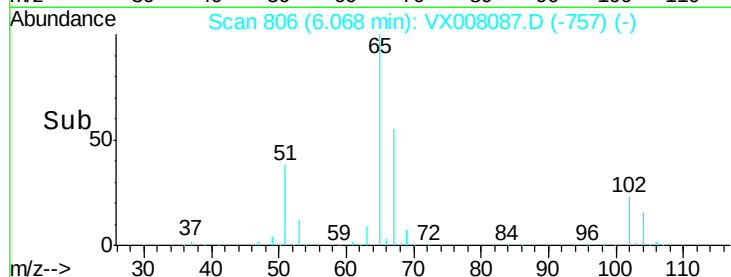
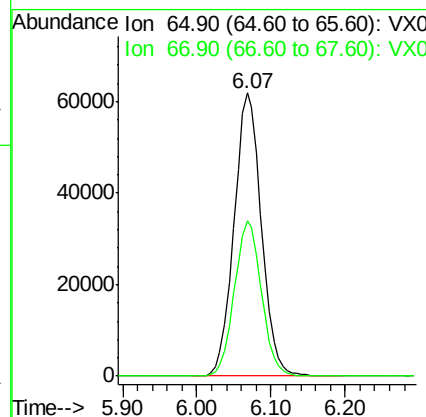
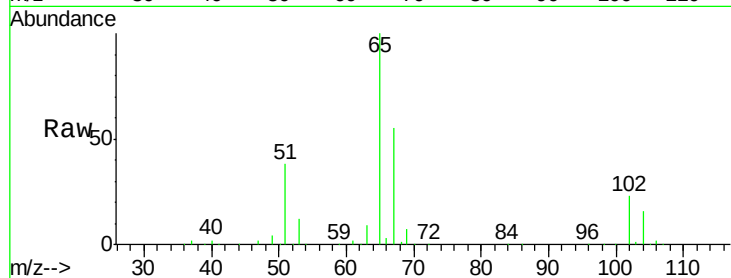




#33
 1,2-Dichloroethane-d4
 Concen: 50.274 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX008087.D
 Acq: 14 Mar 2019 23:20

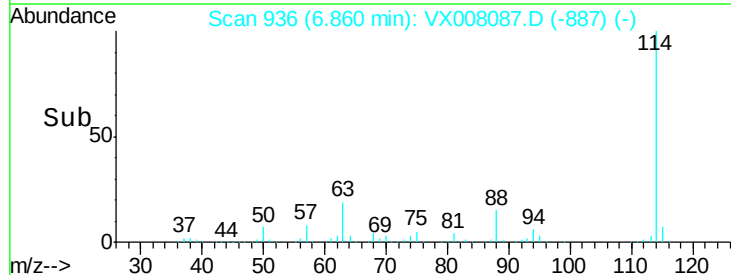
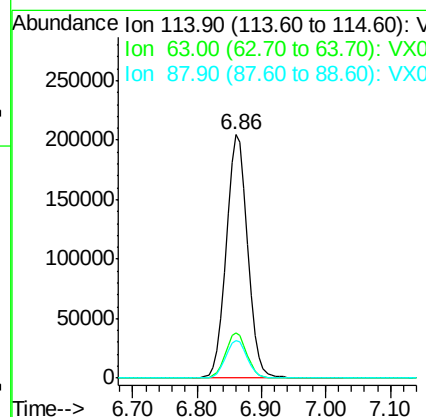
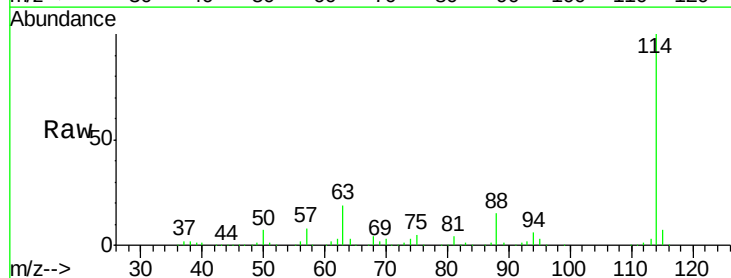
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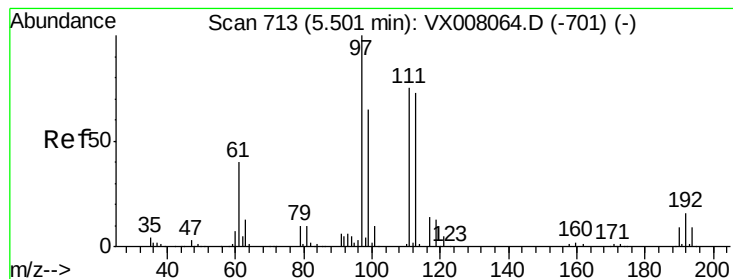
Tot Ion: 65 Resp: 159023
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 110.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008087.D
 Acq: 14 Mar 2019 23:20

Tgt Ion: 114 Resp: 481275
 Ion Ratio Lower Upper
 114 100
 63 18.7 0.0 39.8
 88 15.4 0.0 31.4





#35

Dibromofluoromethane

Concen: 50.364 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX008087.D

Acq: 14 Mar 2019 23:20

Instrument :

MSVOA_X

ClientSampleId :

RE109D2-20190307

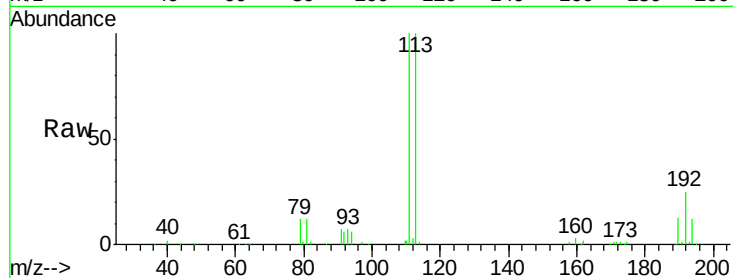
Tot Ion:113 Resp: 153711

Ion Ratio Lower Upper

113 100

111 102.1 81.4 122.0

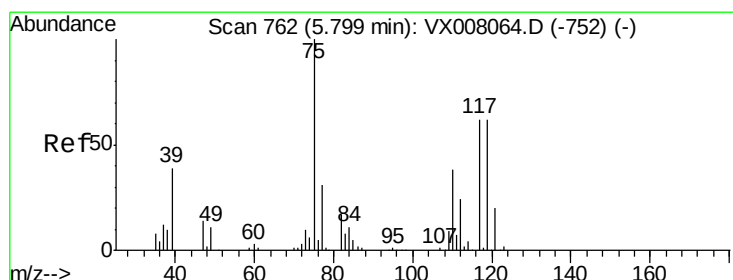
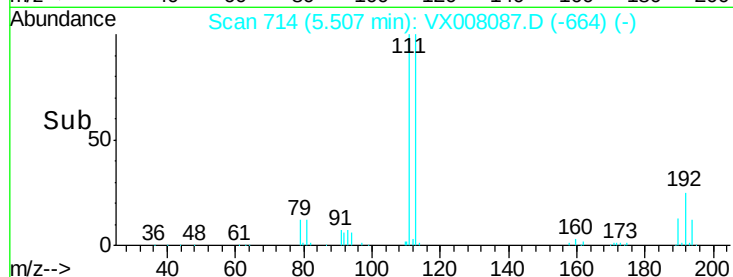
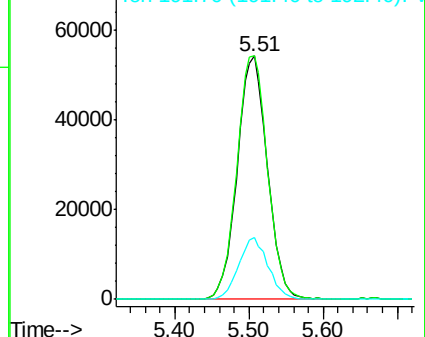
192 24.7 19.4 29.0



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.550 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX008087.D

Acq: 14 Mar 2019 23:20

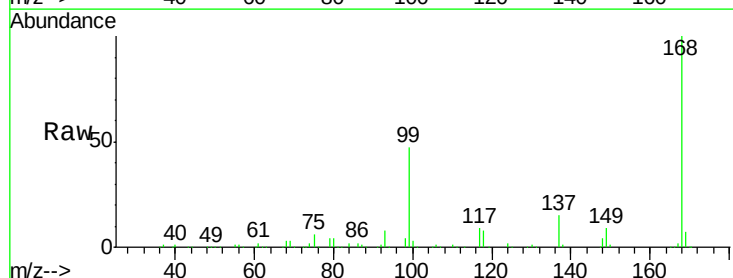
Tgt Ion: 75 Resp: 18015

Ion Ratio Lower Upper

75 100

110 9.2 18.4 55.0#

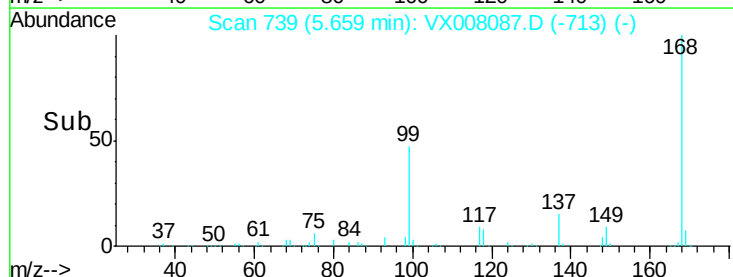
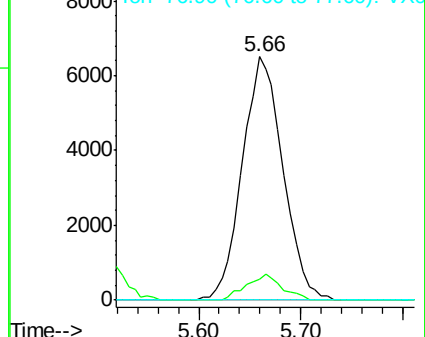
77 0.0 25.0 37.4#

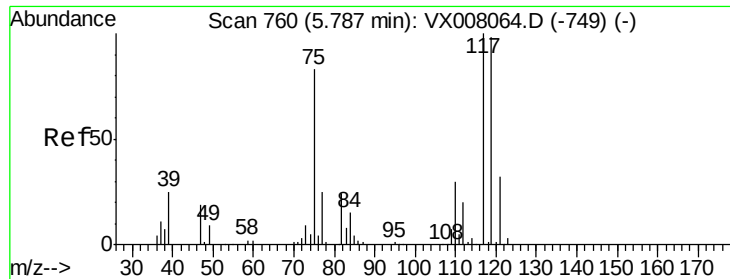


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

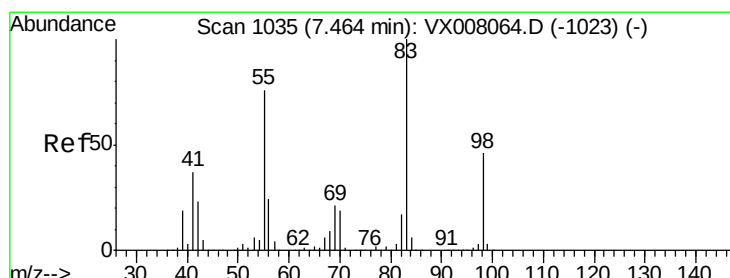
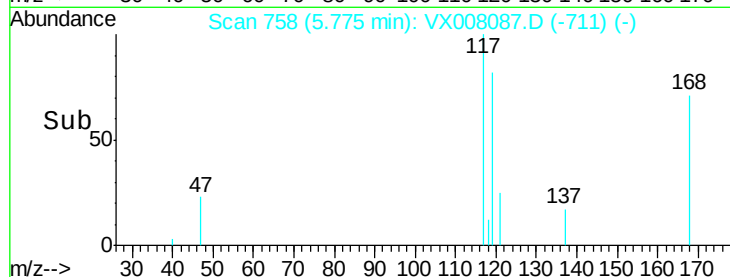
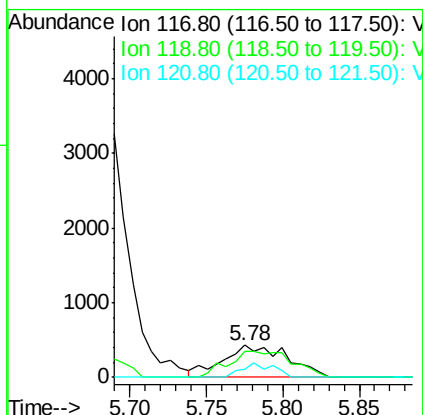
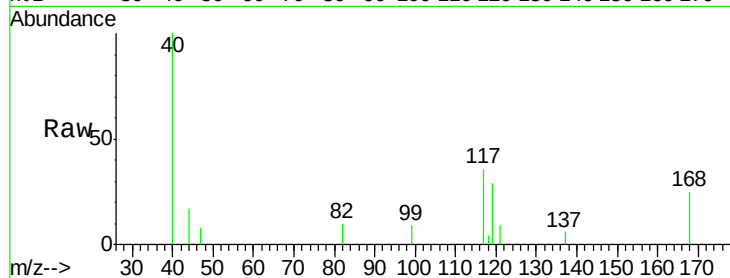




#38
Carbon Tetrachloride
Concen: 0.329 ug/l
RT: 5.78 min Scan# 758
Delta R.T. -0.01 min
Lab File: VX008087.D
Acq: 14 Mar 2019 23:20

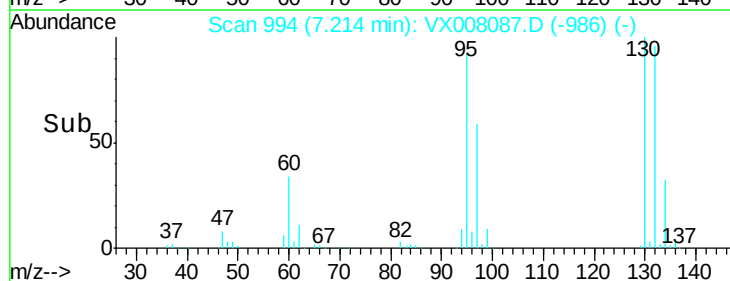
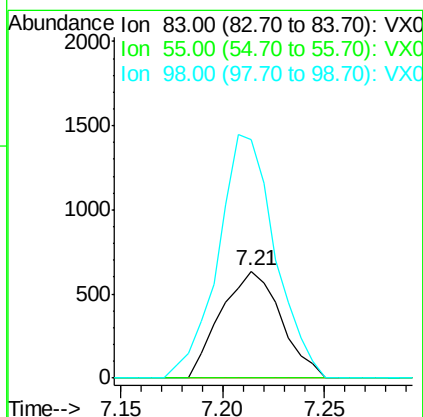
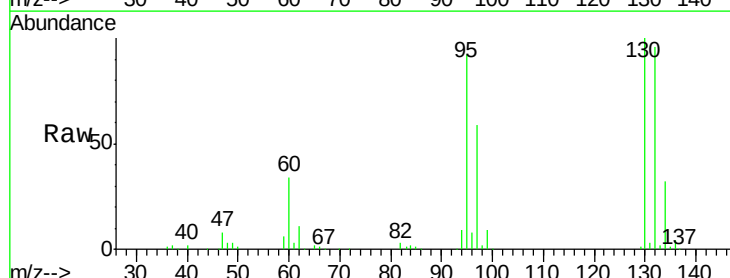
Instrument :
MSVOA_X
ClientSampleId :
RE109D2-20190307

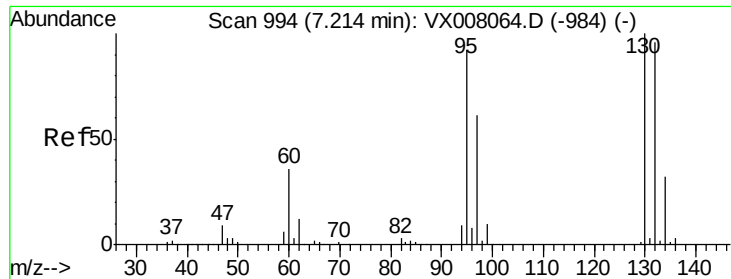
Tot Ion:117 Resp: 1255
Ion Ratio Lower Upper
117 100
119 81.9 76.2 114.2
121 24.7 24.6 36.8



#39
Methylcyclohexane
Concen: 0.257 ug/l
RT: 7.21 min Scan# 994
Delta R.T. -0.25 min
Lab File: VX008087.D
Acq: 14 Mar 2019 23:20

Tgt Ion: 83 Resp: 1303
Ion Ratio Lower Upper
83 100
55 0.0 60.4 90.6#
98 222.3 36.5 54.7#





#44

Trichloroethene

Concen: 35.961 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.00 min

Lab File: VX008087.D

Acq: 14 Mar 2019 23:20

Instrument :

MSVOA_X

ClientSampleId :

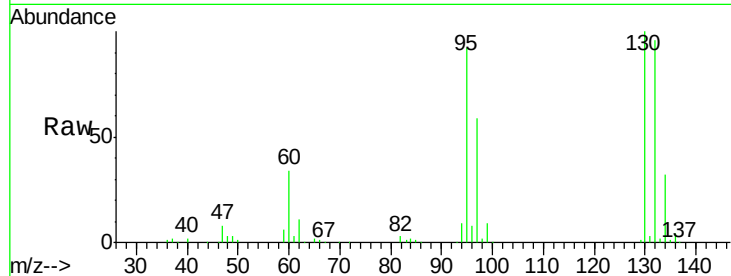
RE109D2-20190307

Tot Ion:130 Resp: 125883

Ion Ratio Lower Upper

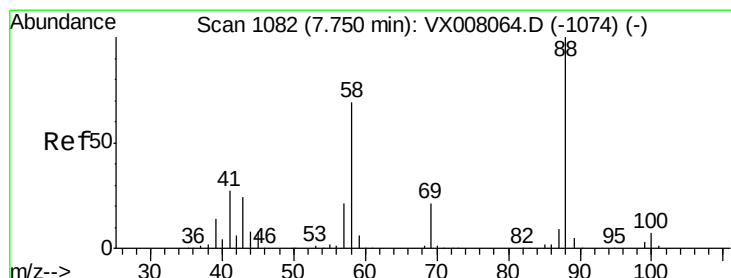
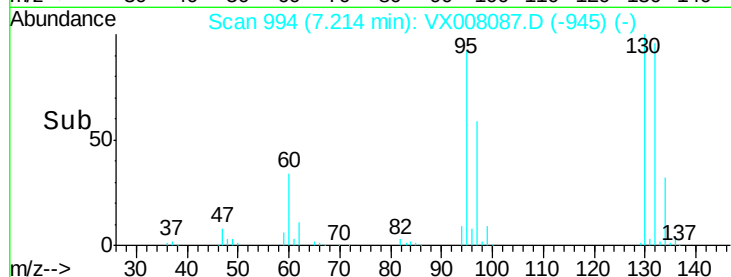
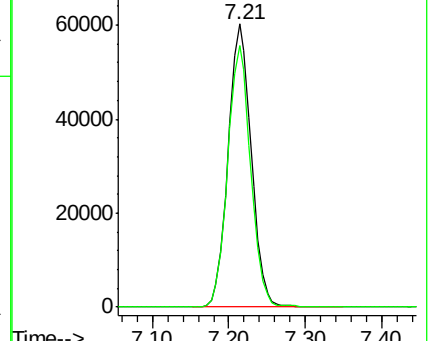
130 100

95 92.3 0.0 188.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0



#49

1,4-Dioxane

Concen: 11.620 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.00 min

Lab File: VX008087.D

Acq: 14 Mar 2019 23:20

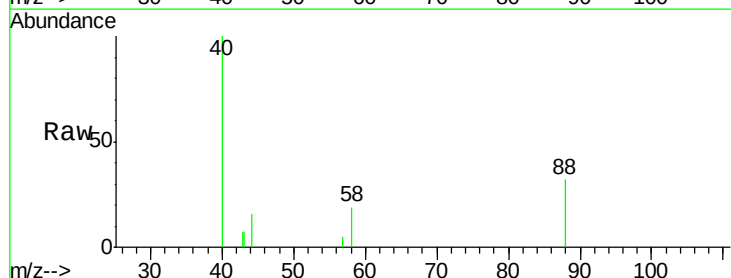
Tgt Ion: 88 Resp: 897

Ion Ratio Lower Upper

88 100

43 30.9 25.1 37.7

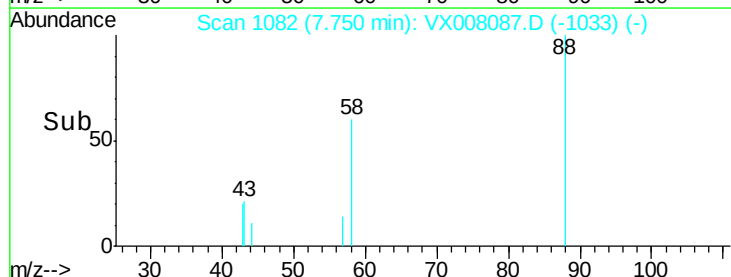
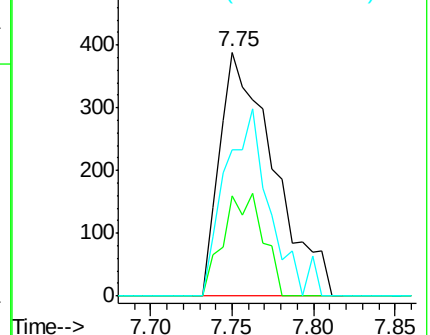
58 63.0 57.8 86.6

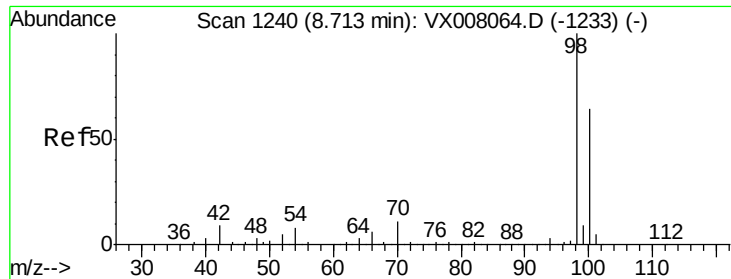


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 49.607 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008087.D

Acq: 14 Mar 2019 23:20

Instrument :

MSVOA_X

ClientSampleId :

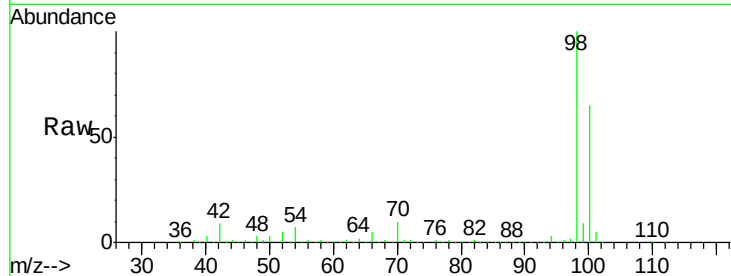
RE109D2-20190307

Tot Ion: 98 Resp: 575816

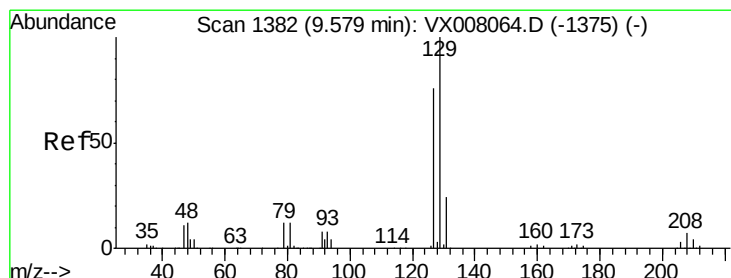
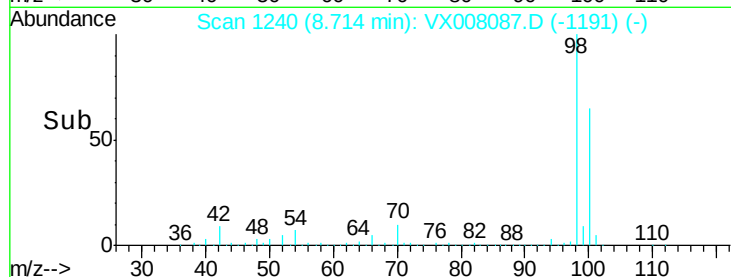
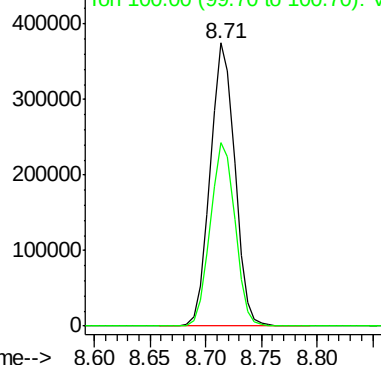
Ion Ratio Lower Upper

98 100

100 65.3 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): VX008064.D (-1233) (-)



#60

Dibromochloromethane

Concen: 0.475 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX008087.D

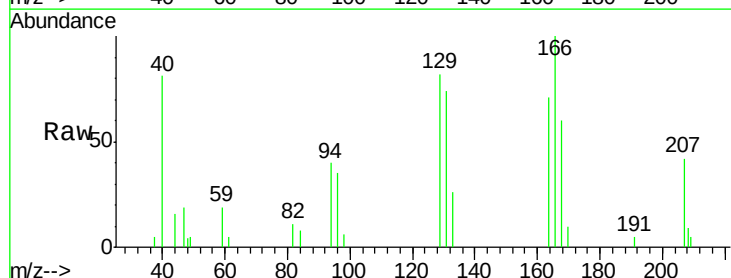
Acq: 14 Mar 2019 23:20

Tgt Ion: 129 Resp: 1537

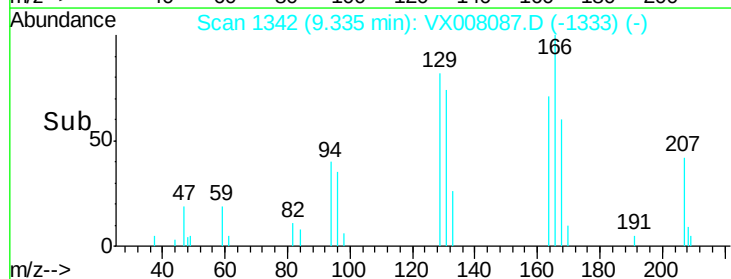
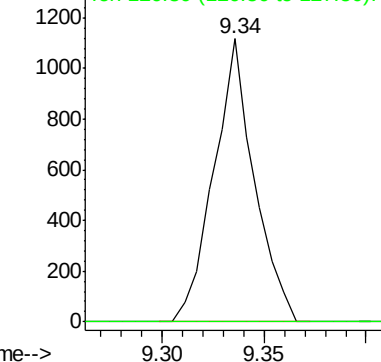
Ion Ratio Lower Upper

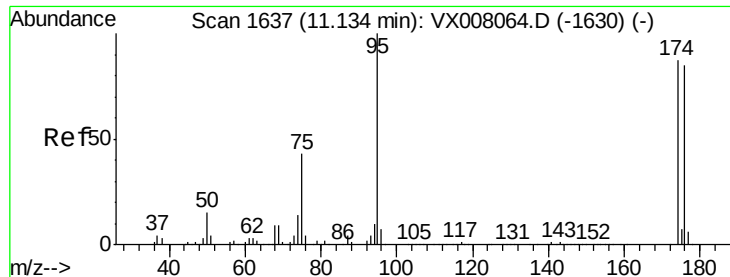
129 100

127 0.0 38.3 114.8#



Abundance Ion 128.80 (128.50 to 129.50): VX008064.D (-1375) (-)

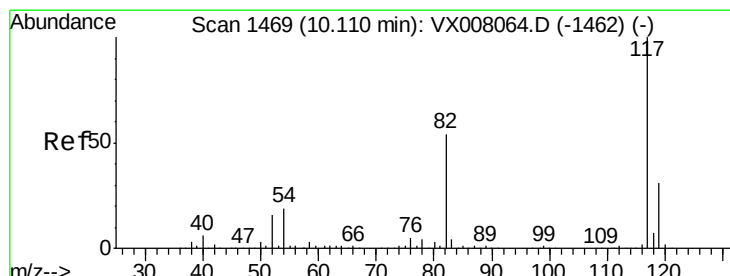
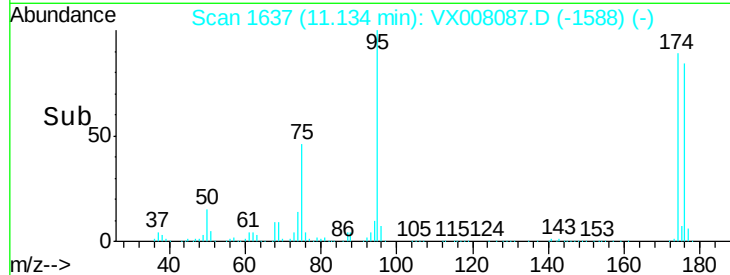
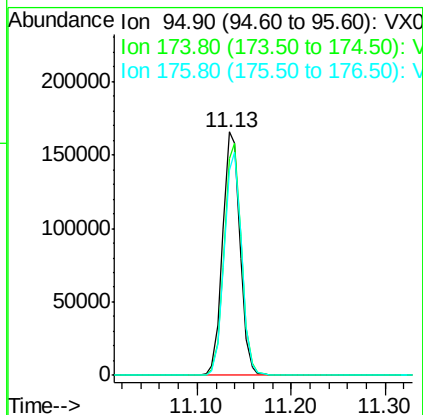
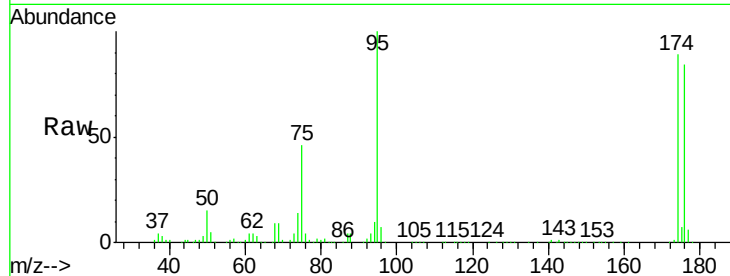




#62
4-Bromofluorobenzene
Concen: 51.030 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX008087.D
Acq: 14 Mar 2019 23:20

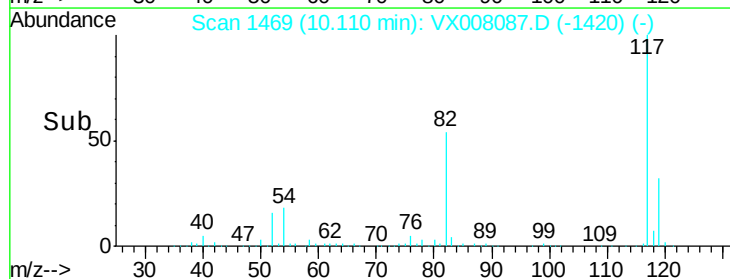
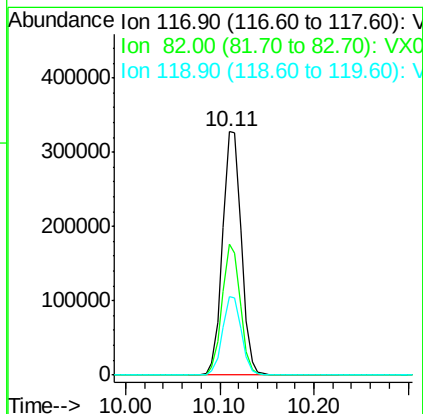
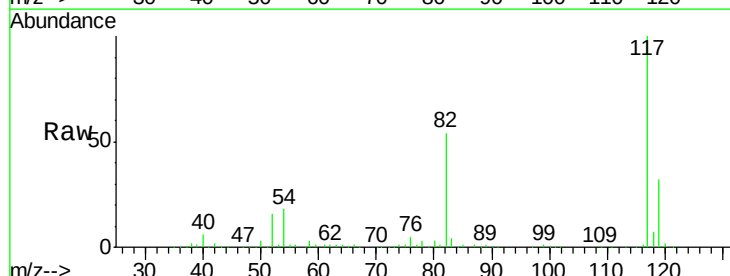
Instrument :
MSVOA_X
ClientSampleId :
RE109D2-20190307

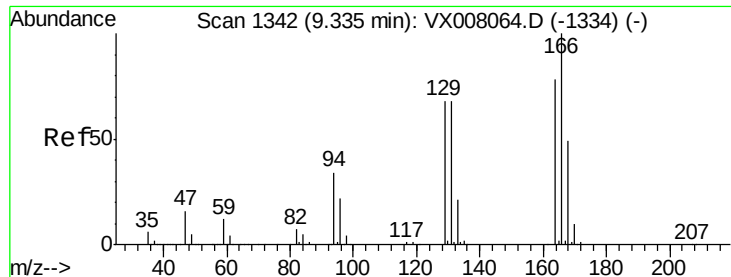
Tot Ion: 95 Resp: 212196
Ion Ratio Lower Upper
95 100
174 94.4 0.0 182.8
176 91.0 0.0 178.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008087.D
Acq: 14 Mar 2019 23:20

Tgt Ion: 117 Resp: 453732
Ion Ratio Lower Upper
117 100
82 53.7 44.3 66.5
119 32.1 25.3 37.9

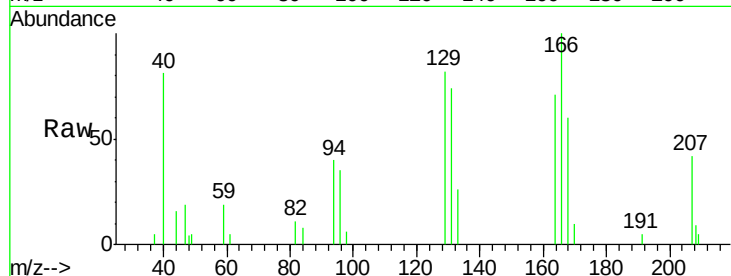




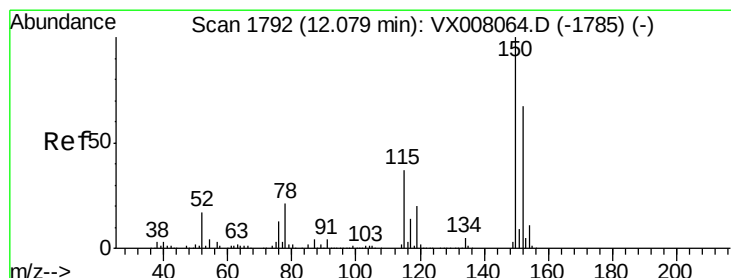
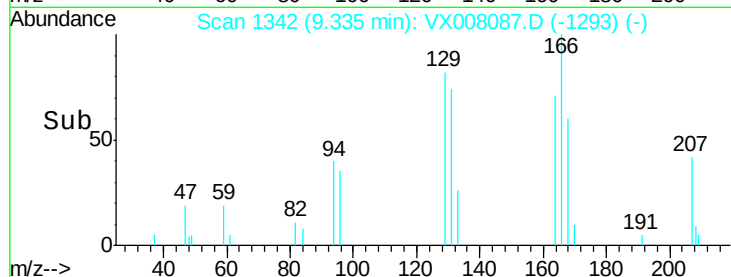
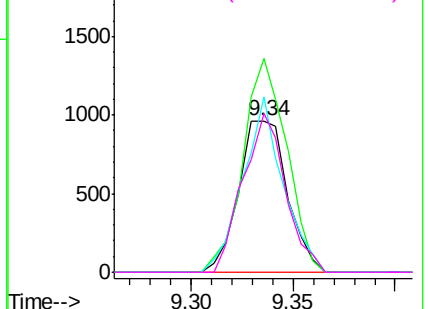
#64
Tetrachloroethene
Concen: 0.434 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX008087.D
Acq: 14 Mar 2019 23:20

Instrument :
MSVOA_X
ClientSampleId :
RE109D2-20190307

Tot Ion:164 Resp: 1594
Ion Ratio Lower Upper
164 100
166 141.0 103.4 155.0
129 115.9 72.2 108.4#
131 104.8 69.4 104.2#

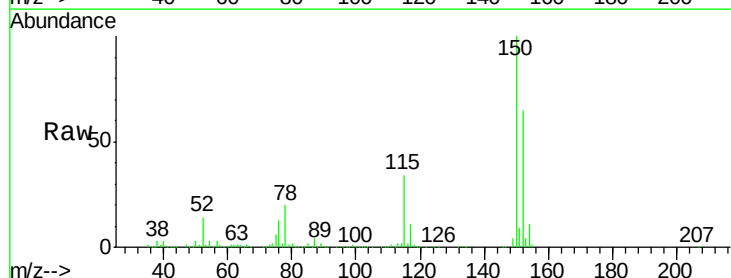


Abundance Ion 163.80 (163.50 to 164.50): V
Ion 165.80 (165.50 to 166.50): V
Ion 128.80 (128.50 to 129.50): V
Ion 130.80 (130.50 to 131.50): V

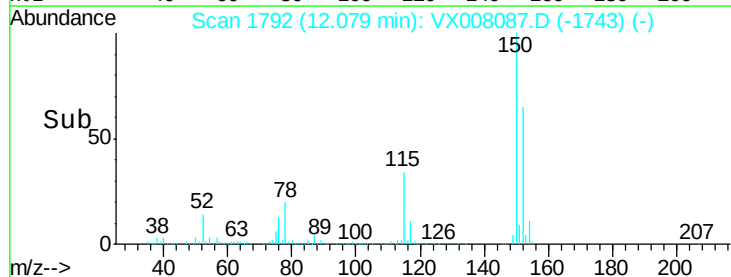
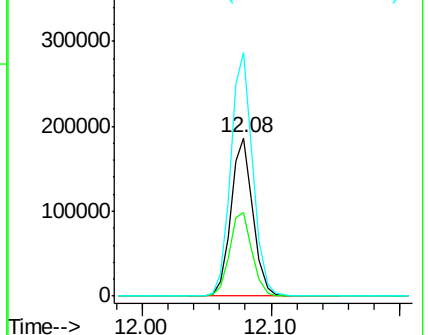


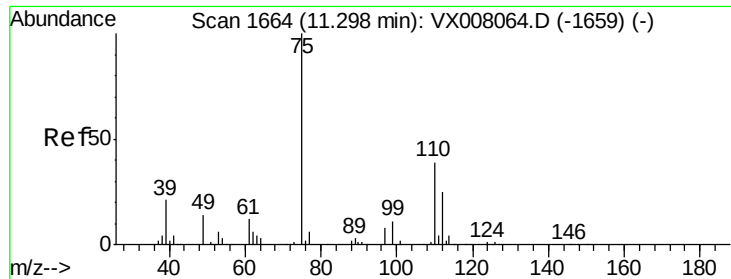
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX008087.D
Acq: 14 Mar 2019 23:20

Tgt Ion:152 Resp: 221527
Ion Ratio Lower Upper
152 100
115 54.9 38.6 115.7
150 155.5 0.0 348.4



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





#76

1,2,3-Trichloropropane

Concen: 24.620 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX008087.D

Acq: 14 Mar 2019 23:20

Instrument :

MSVOA_X

ClientSampleId :

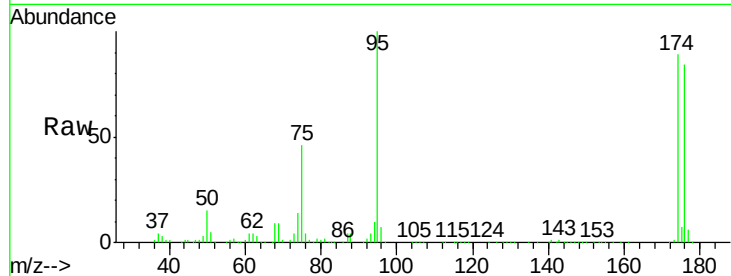
RE109D2-20190307

Tot Ion: 75 Resp: 94721

Ion Ratio Lower Upper

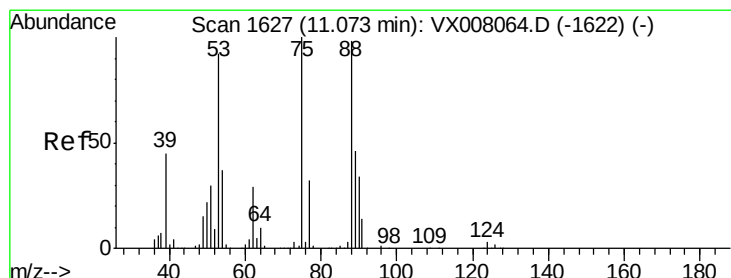
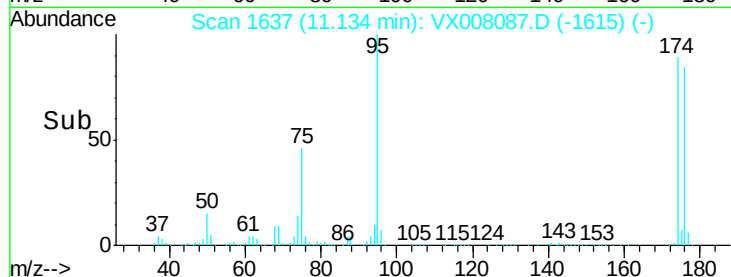
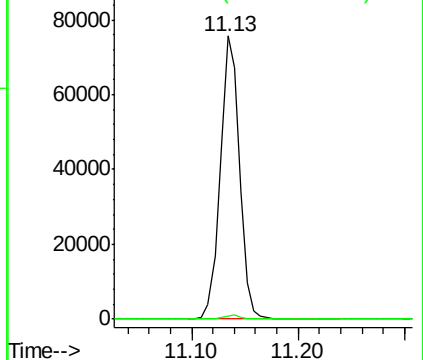
75 100

77 1.3 18.9 56.7#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0



#81

trans-1,4-Dichloro-2-butene

Concen: 70.060 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008087.D

Acq: 14 Mar 2019 23:20

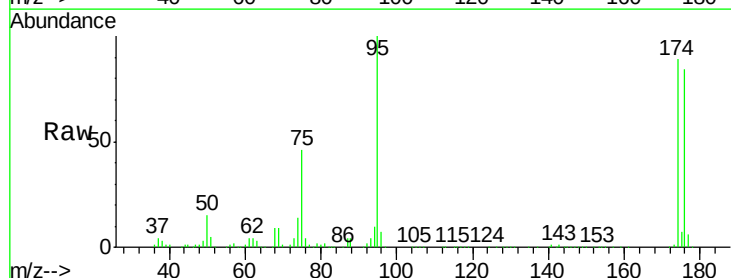
Tgt Ion: 75 Resp: 94721

Ion Ratio Lower Upper

75 100

53 0.0 76.1 114.1#

89 0.0 36.3 54.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0

