

Data File : VX011316.D
Acq On : 02 Aug 2019 19:37
Operator : JC/SP
Sample : K4119-10
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 27 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :
Z3-0689

Quant Time: Aug 03 05:46:53 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080119W.M
Quant Title : SW846 8260
QLast Update : Fri Aug 02 01:55:00 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	137458	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	224213	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	209760	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	94406	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	6.06	65	76196	55.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	110.08%	
35) Dibromofluoromethane	5.49	113	72557	49.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.14%	
50) Toluene-d8	8.71	98	271455	49.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.26%	
62) 4-Bromofluorobenzene	11.13	95	91270	46.26	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.52%	

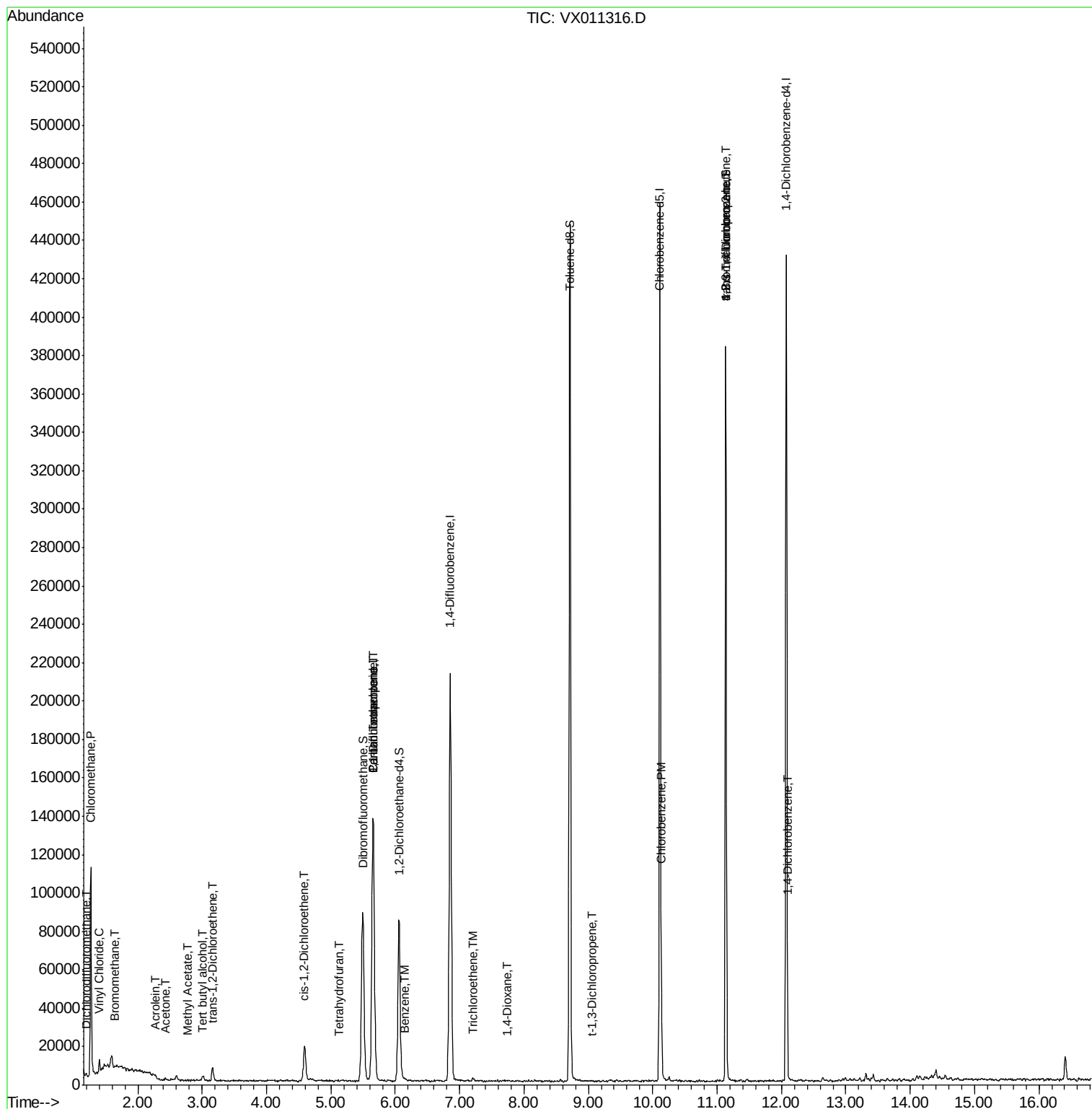
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	579	0.545	ug/l	93
3) Chloromethane	1.27	50	2248	1.886	ug/l #	42
4) Vinyl Chloride	1.40	62	3991	3.043	ug/l	91
5) Bromomethane	1.64	94	599	0.640	ug/l #	58
6) Chloroethane	1.73	64	377	Below Cal	#	43
11) Tert butyl alcohol	3.01	59	1173	4.272	ug/l #	87
13) Acrolein	2.27	56	118	0.266	ug/l #	64
16) Acetone	2.43	43	926	1.405	ug/l	89
18) Methyl Acetate	2.76	43	333	0.221	ug/l #	49
21) trans-1,2-Dichloroethene	3.17	96	2811	2.125	ug/l	96
27) cis-1,2-Dichloroethene	4.59	96	12062	7.916	ug/l	94
29) Tetrahydrofuran	5.13	42	564	0.981	ug/l #	37
36) 1,1-Dichloropropene	5.65	75	9269	4.735	ug/l #	49
38) Carbon Tetrachloride	5.65	117	12823	6.511	ug/l #	16
40) Benzene	6.14	78	1302	0.223	ug/l #	66
44) Trichloroethene	7.21	130	481	0.272	ug/l	30
49) 1,4-Dioxane	7.75	88	41	0.957	ug/l #	1
53) t-1,3-Dichloropropene	9.05	75	19	2.847	ug/l #	1
65) Chlorobenzene	10.13	112	13865	3.083	ug/l	96
76) 1,2,3-Trichloropropane	11.13	75	44456	25.858	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	44456	67.323	ug/l #	10
88) 1,4-Dichlorobenzene	12.10	146	1193	0.366	ug/l #	7

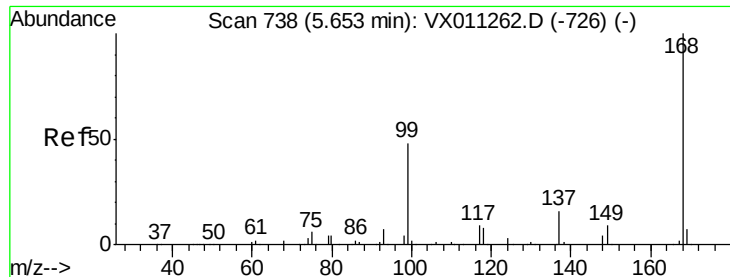
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.01 min

Lab File: VX011316.D

Acq: 02 Aug 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

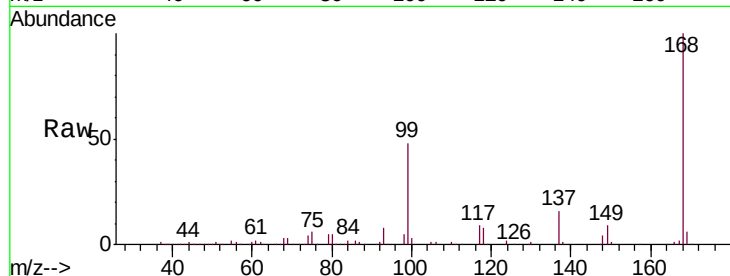
Z3-0689

Tgt Ion:168 Resp: 137458

Ion Ratio Lower Upper

168 100

99 48.0 38.5 57.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

40000

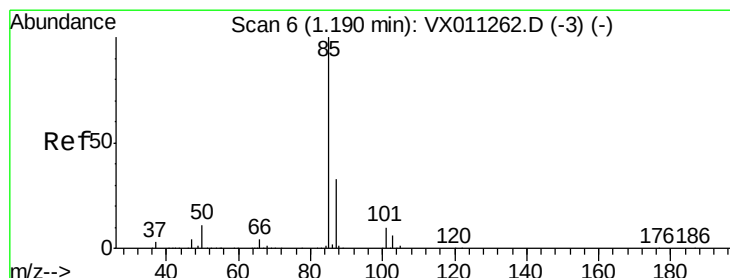
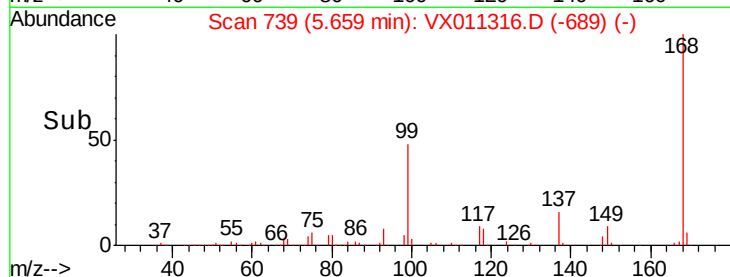
30000

20000

10000

0

Time--> 5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.545 ug/l

RT: 1.19 min Scan# 6

Delta R.T. -0.00 min

Lab File: VX011316.D

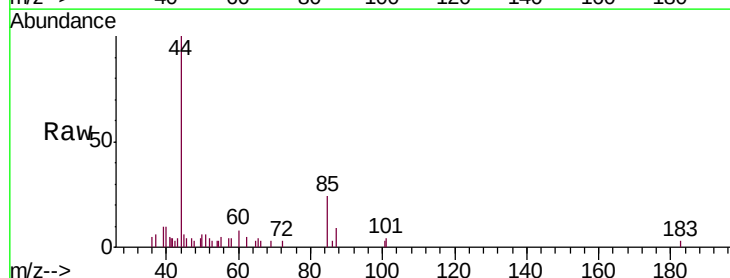
Acq: 02 Aug 2019 19:37

Tgt Ion: 85 Resp: 579

Ion Ratio Lower Upper

85 100

87 36.4 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

500

400

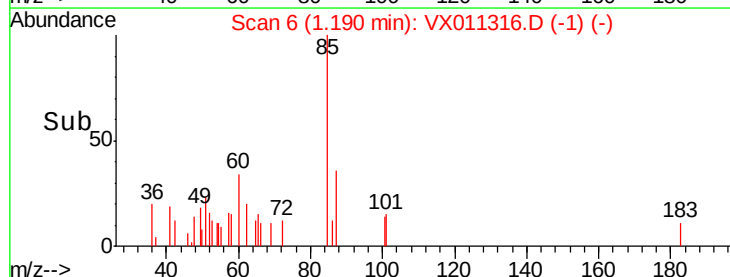
300

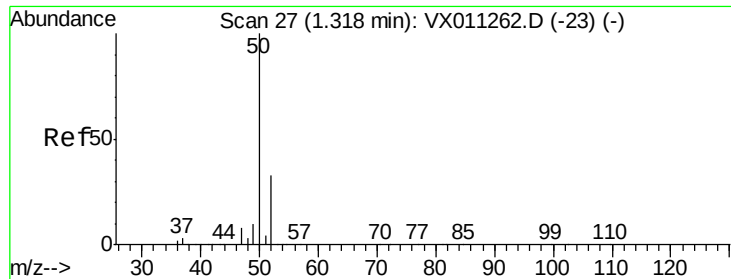
200

100

0

Time--> 1.15 1.20





#3

Chloromethane

Concen: 1.886 ug/l

RT: 1.27 min Scan# 19

Delta R.T. -0.05 min

Lab File: VX011316.D

Acq: 02 Aug 2019 19:37

Instrument :

MSVOA_N

ClientSampled :

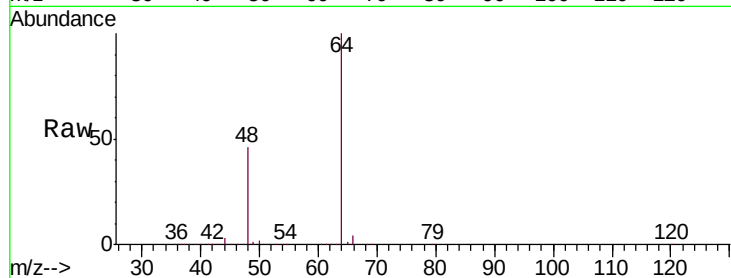
Z3-0689

Tgt Ion: 50 Resp: 2248

Ion Ratio Lower Upper

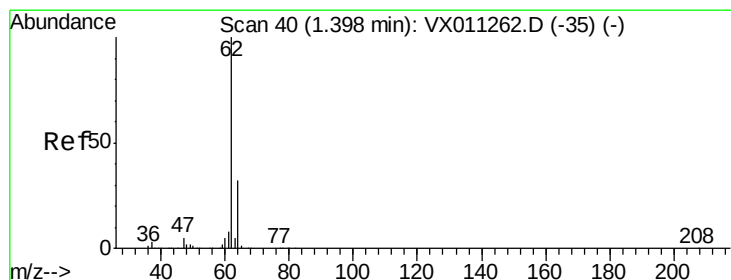
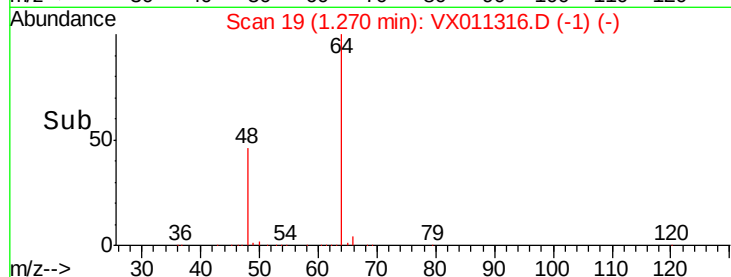
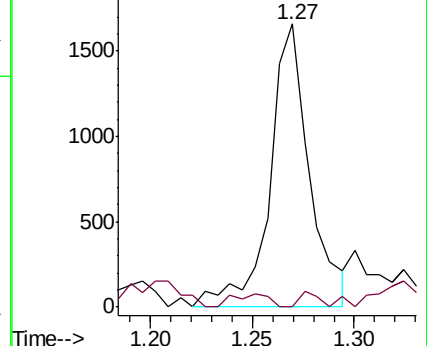
50 100

52 0.0 26.4 39.6#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 3.043 ug/l

RT: 1.40 min Scan# 40

Delta R.T. -0.00 min

Lab File: VX011316.D

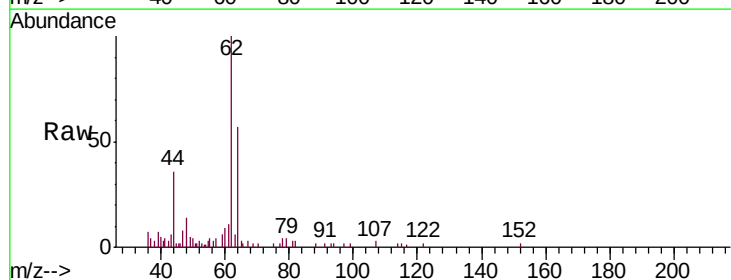
Acq: 02 Aug 2019 19:37

Tgt Ion: 62 Resp: 3991

Ion Ratio Lower Upper

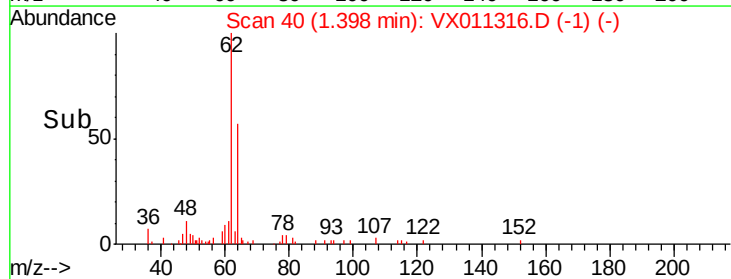
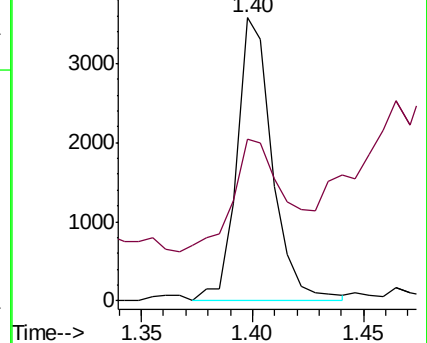
62 100

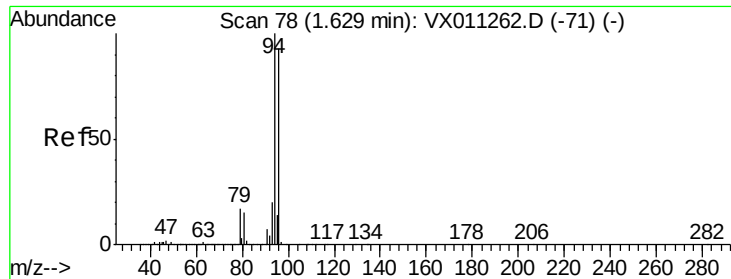
64 37.4 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 0.640 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.01 min

Lab File: VX011316.D

Acq: 02 Aug 2019 19:37

Instrument :

MSVOA_N

ClientSampled :

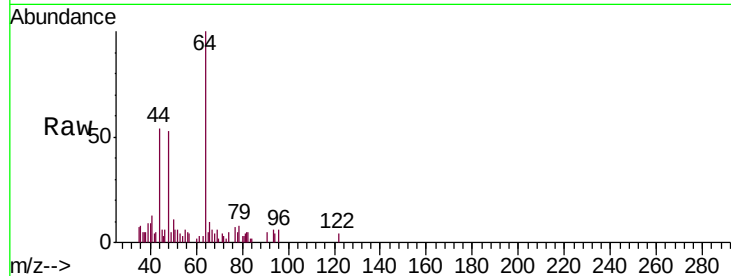
Z3-0689

Tgt Ion: 94 Resp: 599

Ion Ratio Lower Upper

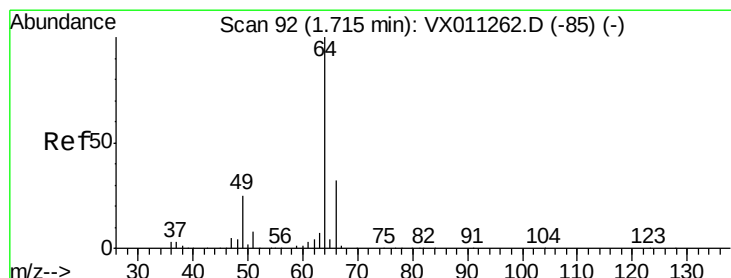
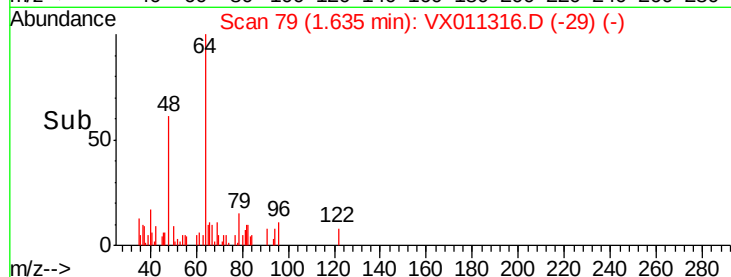
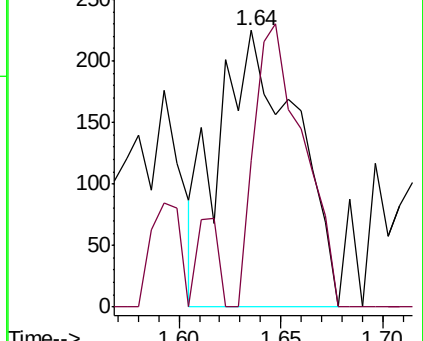
94 100

96 52.9 74.6 112.0#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 95

Delta R.T. 0.02 min

Lab File: VX011316.D

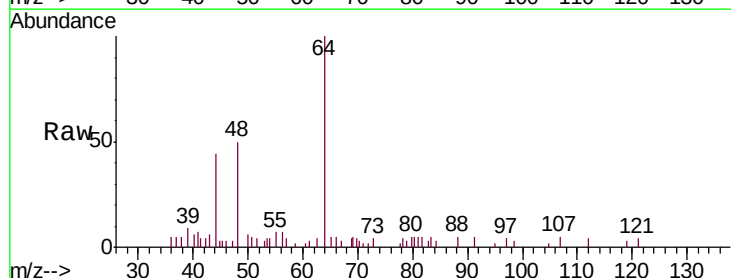
Acq: 02 Aug 2019 19:37

Tgt Ion: 64 Resp: 377

Ion Ratio Lower Upper

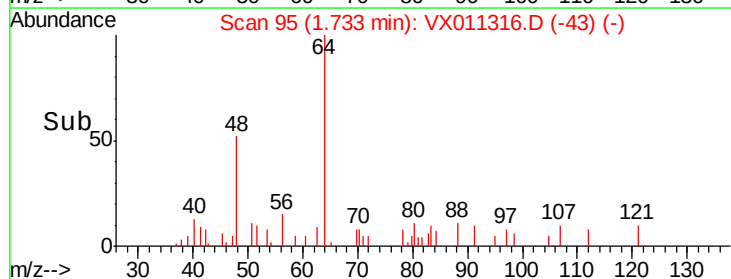
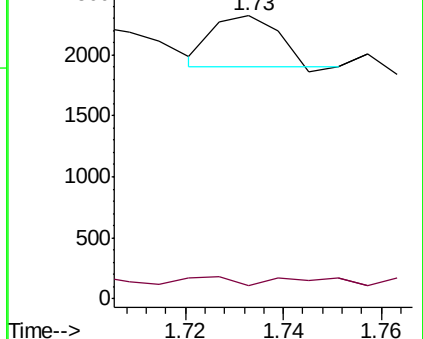
64 100

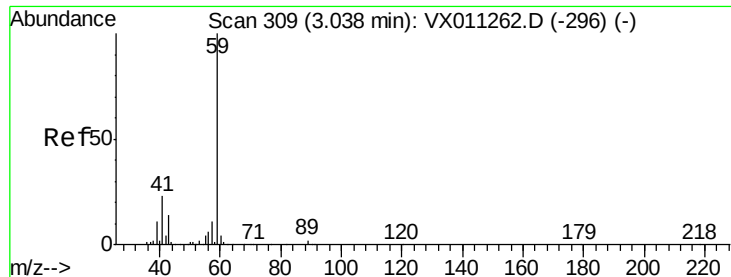
66 0.0 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0



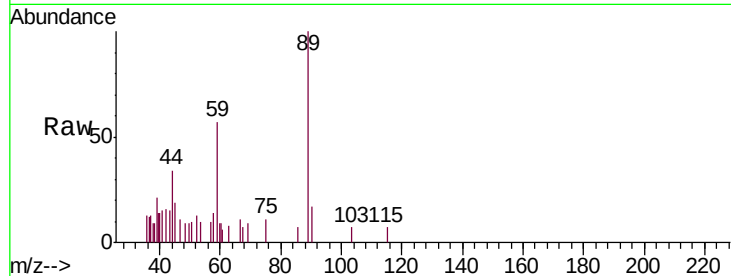


#11

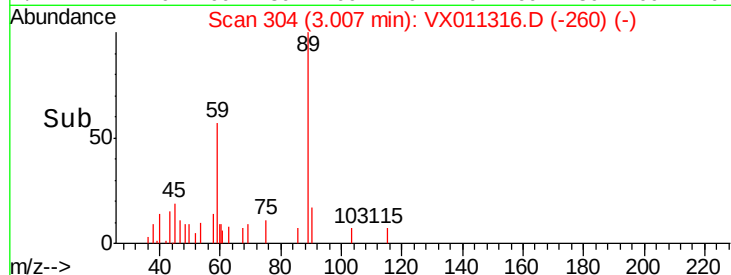
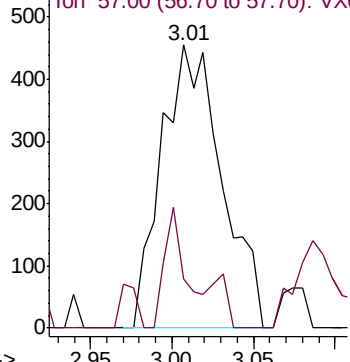
Tert butyl alcohol
 Concen: 4.272 ug/l
 RT: 3.01 min Scan# 304
 Delta R.T. -0.03 min
 Lab File: VX011316.D
 Acq: 02 Aug 2019 19:37

Instrument :
 MSVOA_N
 ClientSampled :
 Z3-0689

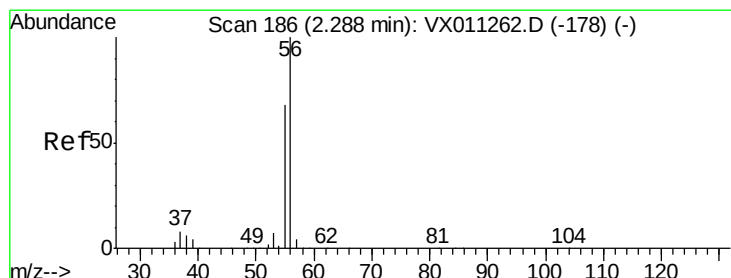
Tgt Ion: 59 Resp: 1173
 Ion Ratio Lower Upper
 59 100
 57 15.2 8.3 12.5#



Abundance Ion 59.00 (58.70 to 59.70): VX0
 Ion 57.00 (56.70 to 57.70): VX0



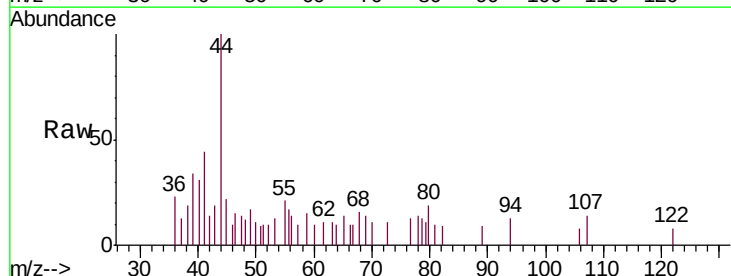
Time-->



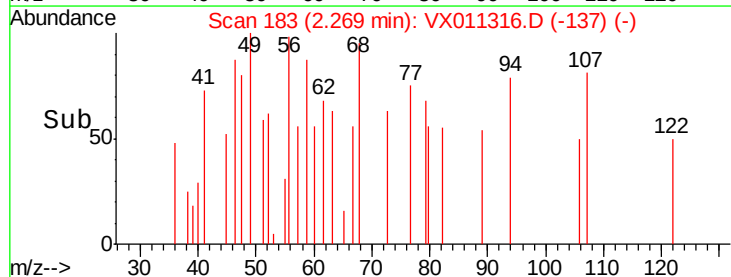
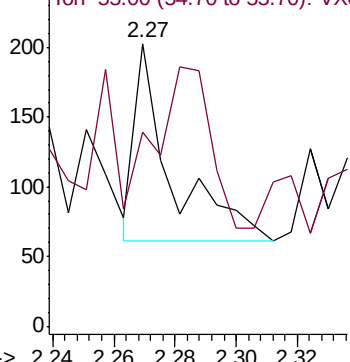
#13

Acrolein
 Concen: 0.266 ug/l
 RT: 2.27 min Scan# 183
 Delta R.T. -0.02 min
 Lab File: VX011316.D
 Acq: 02 Aug 2019 19:37

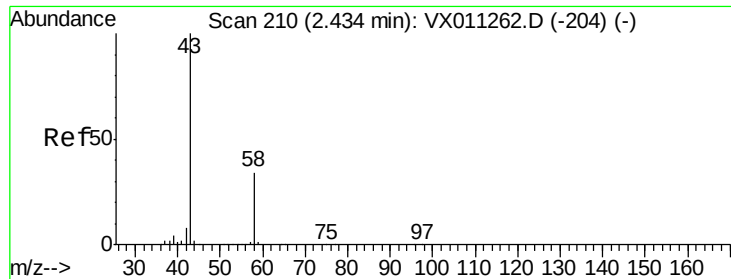
Tgt Ion: 56 Resp: 118
 Ion Ratio Lower Upper
 56 100
 55 40.7 56.0 84.0#



Abundance Ion 56.00 (55.70 to 56.70): VX0
 Ion 55.00 (54.70 to 55.70): VX0



Time-->



#16

Acetone

Concen: 1.405 ug/l

RT: 2.43 min Scan# 210

Delta R.T. -0.00 min

Lab File: VX011316.D

Acq: 02 Aug 2019 19:37

Instrument :

MSVOA_N

ClientSampled :

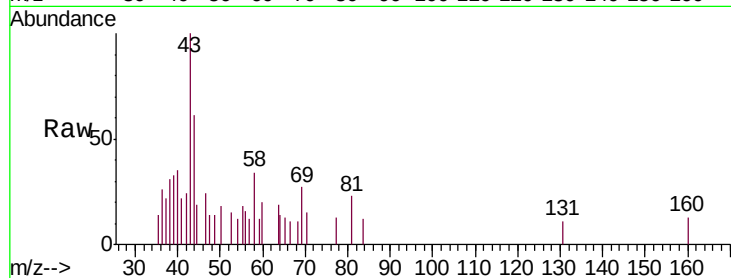
Z3-0689

Tgt Ion: 43 Resp: 926

Ion Ratio Lower Upper

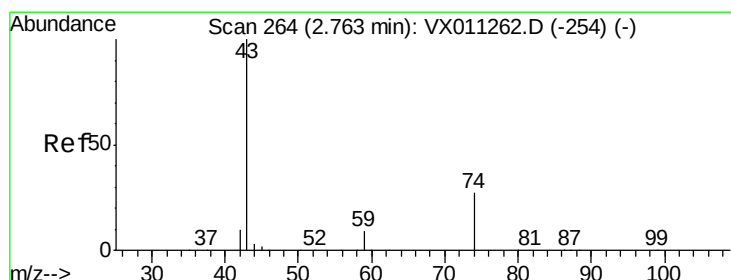
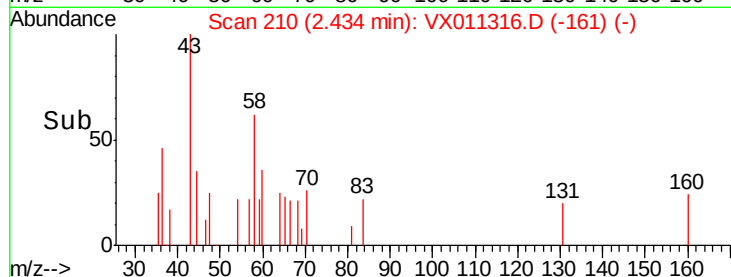
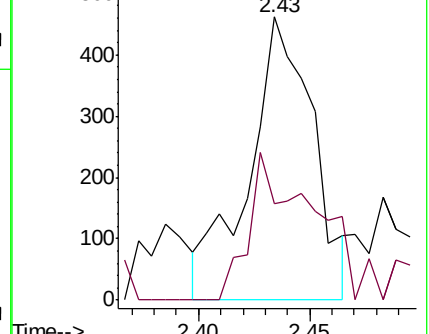
43 100

58 40.8 27.4 41.0



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 0.221 ug/l

RT: 2.76 min Scan# 264

Delta R.T. -0.00 min

Lab File: VX011316.D

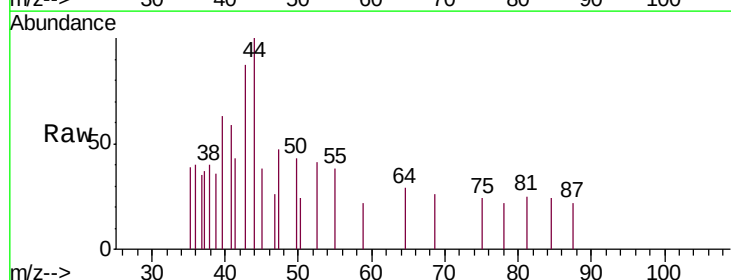
Acq: 02 Aug 2019 19:37

Tgt Ion: 43 Resp: 333

Ion Ratio Lower Upper

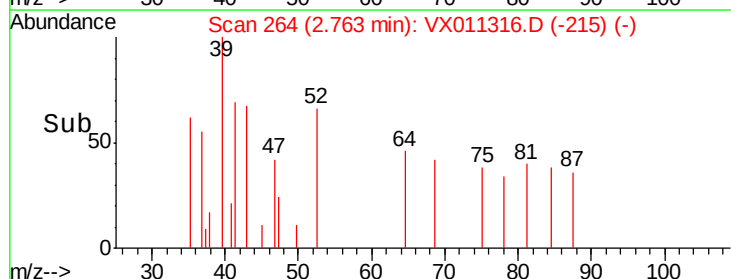
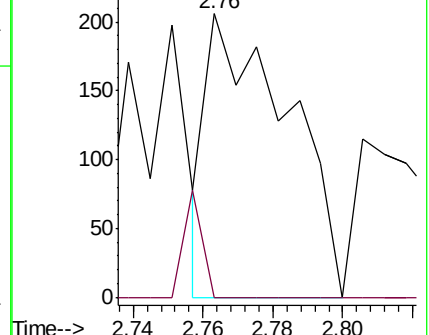
43 100

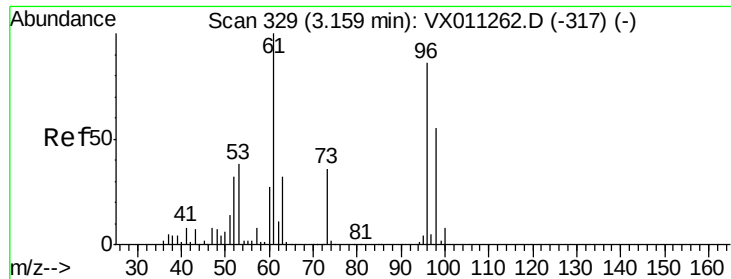
74 0.0 21.0 31.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#21

trans-1,2-Dichloroethene

Concen: 2.125 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.01 min

Lab File: VX011316.D

Acq: 02 Aug 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

Z3-0689

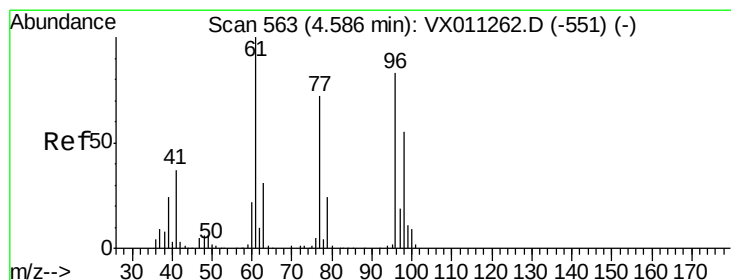
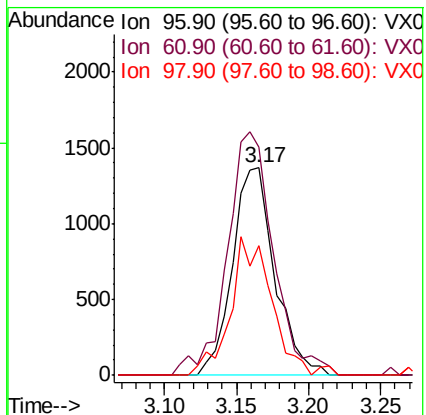
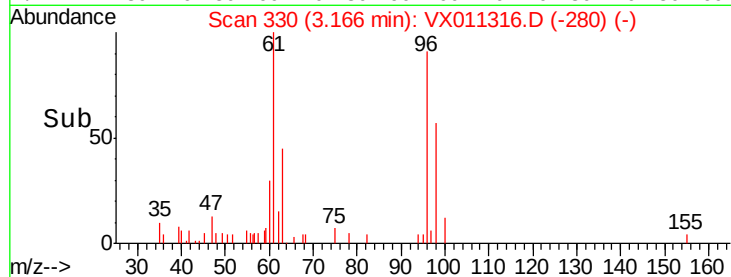
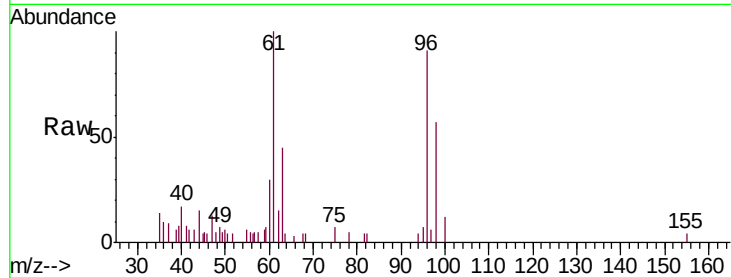
Tgt Ion: 96 Resp: 2811

Ion Ratio Lower Upper

96 100

61 110.2 92.8 139.2

98 62.6 51.2 76.8



#27

cis-1,2-Dichloroethene

Concen: 7.916 ug/l

RT: 4.59 min Scan# 563

Delta R.T. -0.00 min

Lab File: VX011316.D

Acq: 02 Aug 2019 19:37

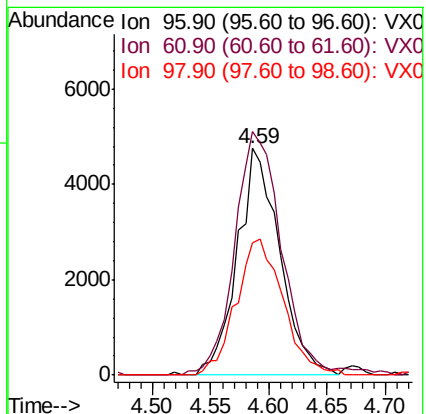
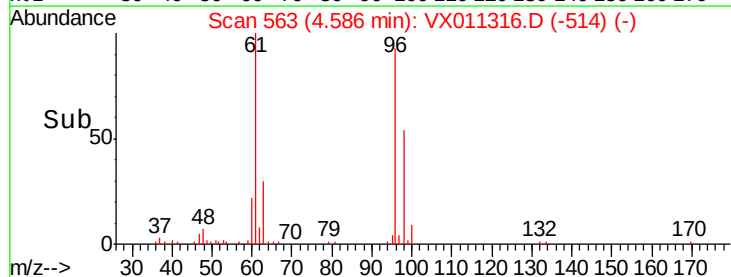
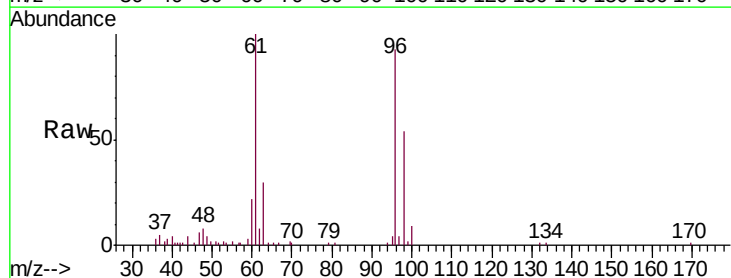
Tgt Ion: 96 Resp: 12062

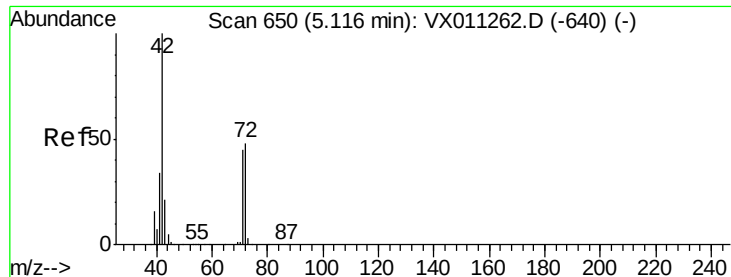
Ion Ratio Lower Upper

96 100

61 120.3 0.0 260.2

98 66.3 0.0 133.2

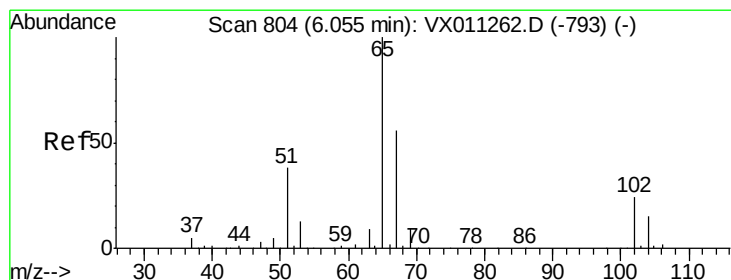
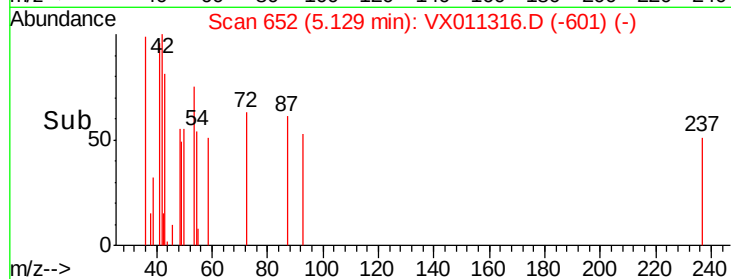
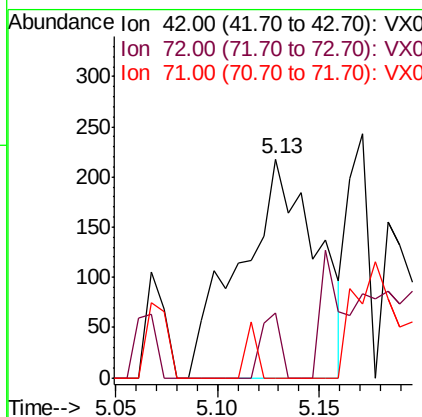
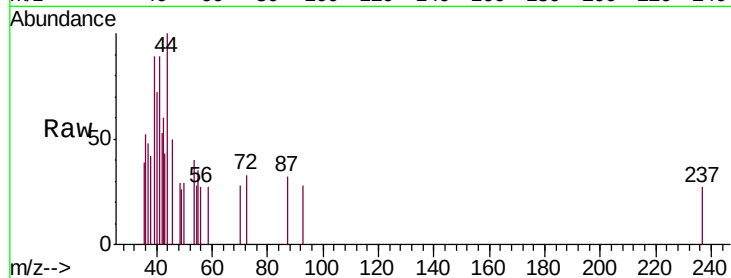




#29
Tetrahydrofuran
Concen: 0.981 ug/l
RT: 5.13 min Scan# 652
Delta R.T. 0.01 min
Lab File: VX011316.D
Acq: 02 Aug 2019 19:37

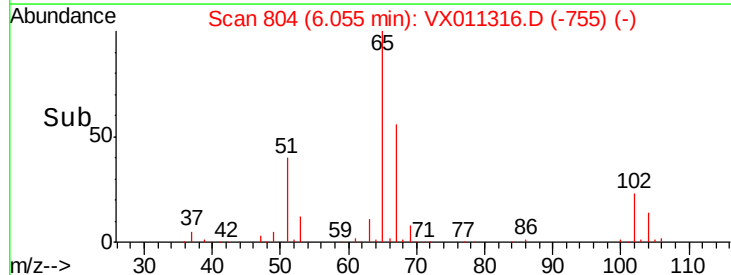
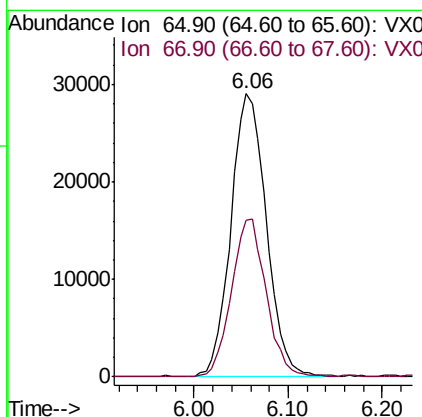
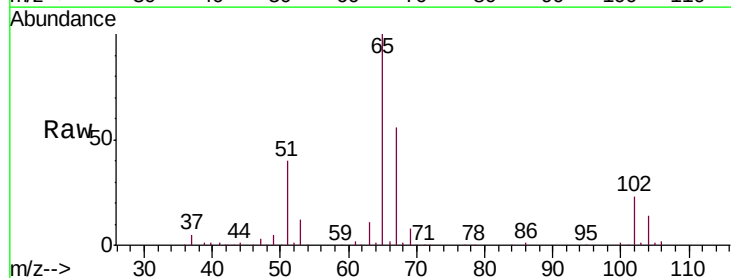
Instrument :
MSVOA_N
ClientSampled :
Z3-0689

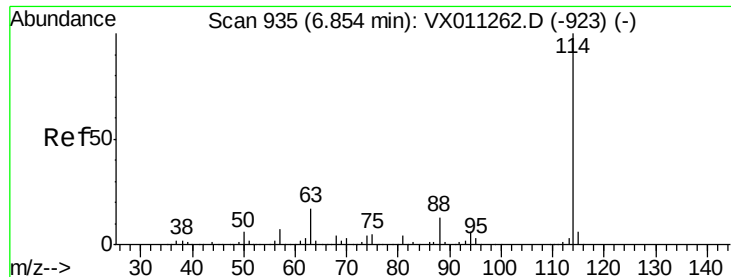
Tgt Ion: 42 Resp: 564
Ion Ratio Lower Upper
42 100
72 7.6 39.9 59.9#
71 3.5 36.9 55.3#



#33
1,2-Dichloroethane-d4
Concen: 55.044 ug/l
RT: 6.06 min Scan# 804
Delta R.T. -0.00 min
Lab File: VX011316.D
Acq: 02 Aug 2019 19:37

Tgt Ion: 65 Resp: 76196
Ion Ratio Lower Upper
65 100
67 54.6 0.0 110.6

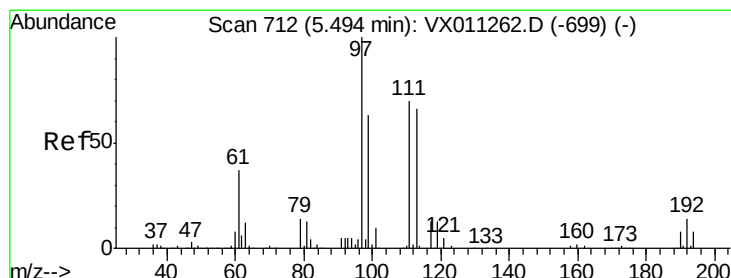
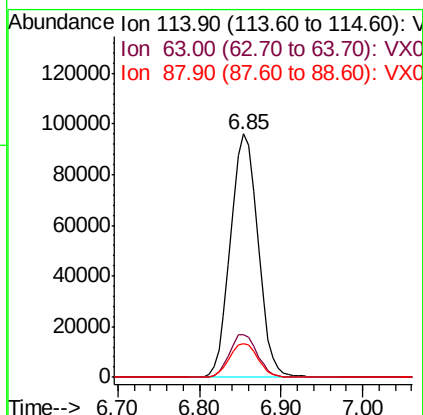
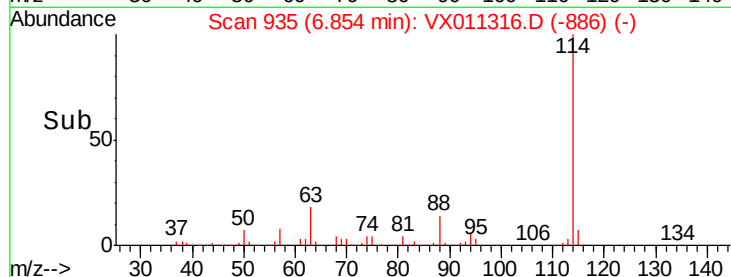
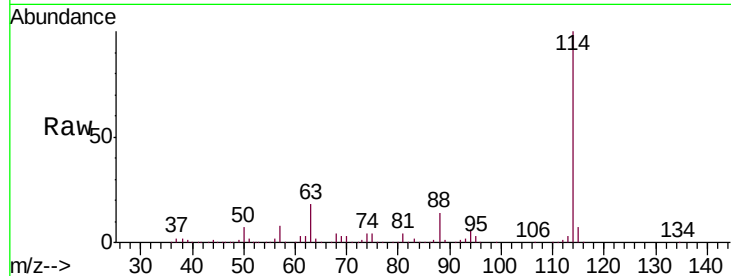




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.85 min Scan# 935
Delta R.T. -0.00 min
Lab File: VX011316.D
Acq: 02 Aug 2019 19:37

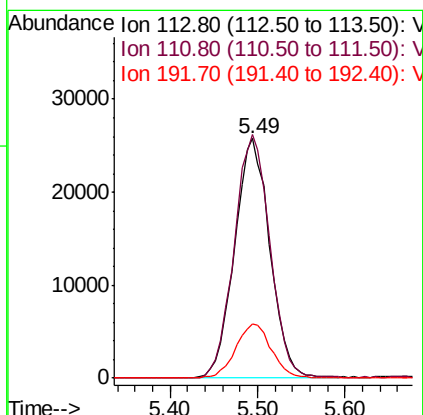
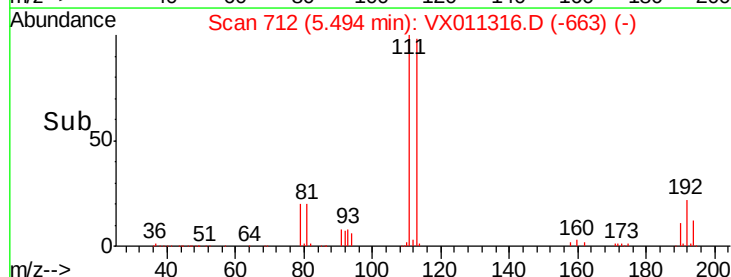
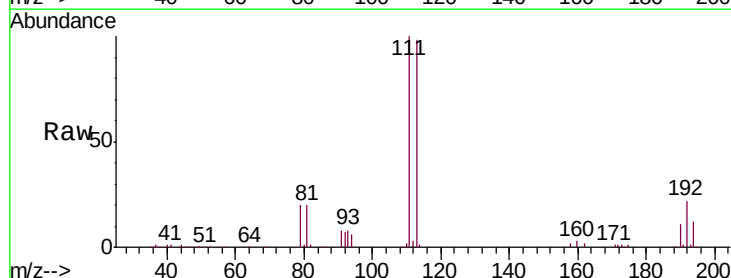
Instrument :
MSVOA_N
ClientSampleId :
Z3-0689

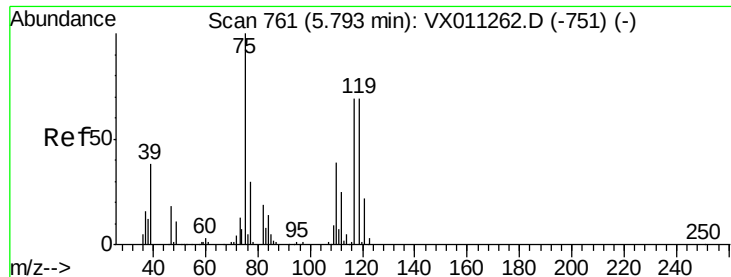
Tgt Ion:114 Resp: 224213
Ion Ratio Lower Upper
114 100
63 17.5 0.0 34.0
88 14.0 0.0 26.4



#35
Dibromofluoromethane
Concen: 49.566 ug/l
RT: 5.49 min Scan# 712
Delta R.T. -0.00 min
Lab File: VX011316.D
Acq: 02 Aug 2019 19:37

Tgt Ion:113 Resp: 72557
Ion Ratio Lower Upper
113 100
111 103.0 81.9 122.9
192 22.8 17.8 26.8

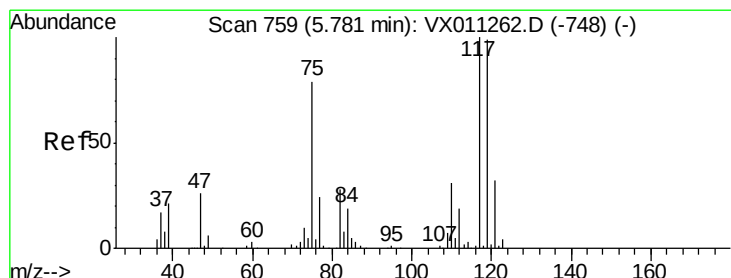
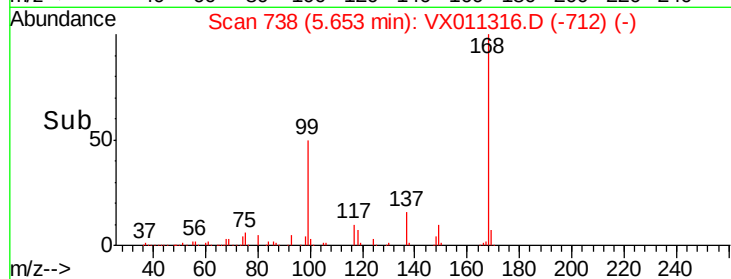
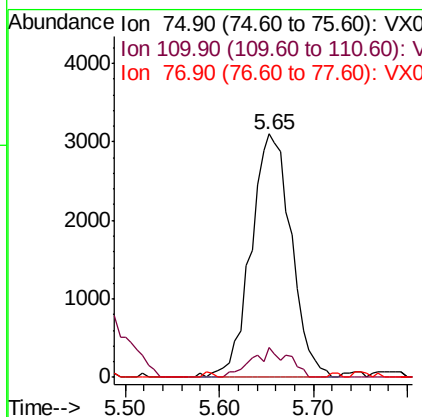
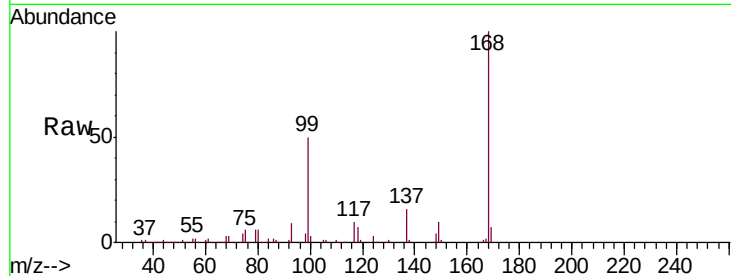




#36
 1,1-Dichloropropene
 Concen: 4.735 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX011316.D
 Acq: 02 Aug 2019 19:37

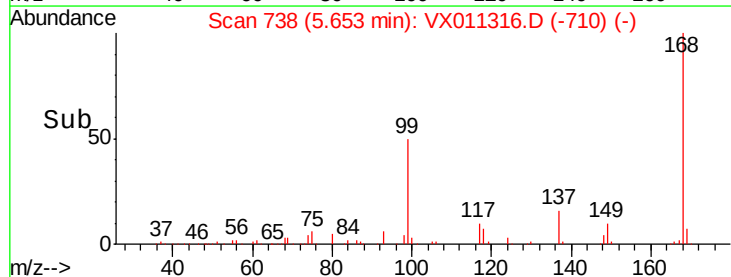
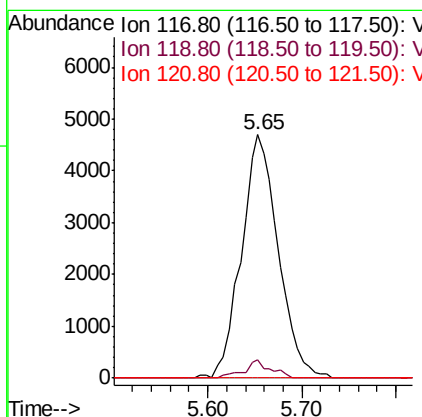
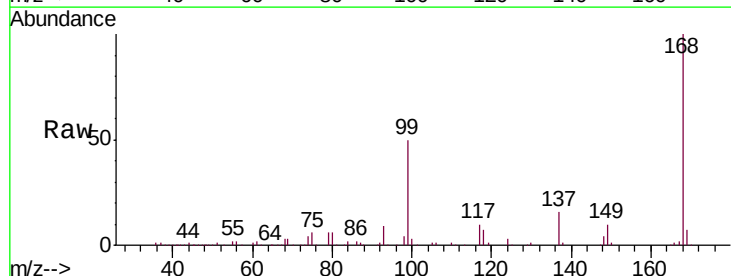
Instrument :
 MSVOA_N
 ClientSampleId :
 Z3-0689

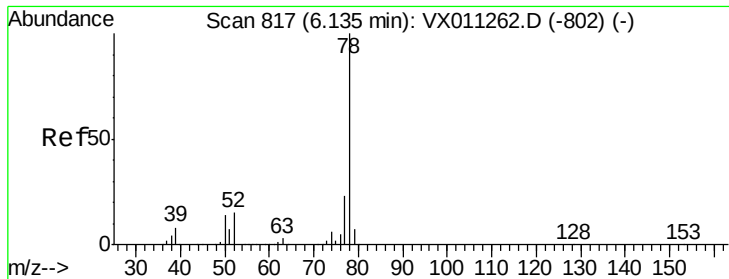
Tgt Ion: 75 Resp: 9269
 Ion Ratio Lower Upper
 75 100
 110 11.2 20.0 59.9#
 77 0.0 24.8 37.2#



#38
 Carbon Tetrachloride
 Concen: 6.511 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.13 min
 Lab File: VX011316.D
 Acq: 02 Aug 2019 19:37

Tgt Ion: 117 Resp: 12823
 Ion Ratio Lower Upper
 117 100
 119 7.3 79.0 118.4#
 121 0.0 25.9 38.9#





#40

Benzene

Concen: 0.223 ug/l

RT: 6.14 min Scan# 818

Delta R.T. 0.01 min

Lab File: VX011316.D

Acq: 02 Aug 2019 19:37

Instrument :

MSVOA_N

ClientSampled :

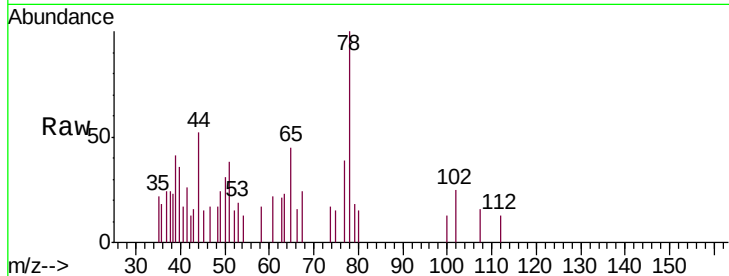
Z3-0689

Tgt Ion: 78 Resp: 1302

Ion Ratio Lower Upper

78 100

77 38.9 18.2 27.2#



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

6.14

400

300

200

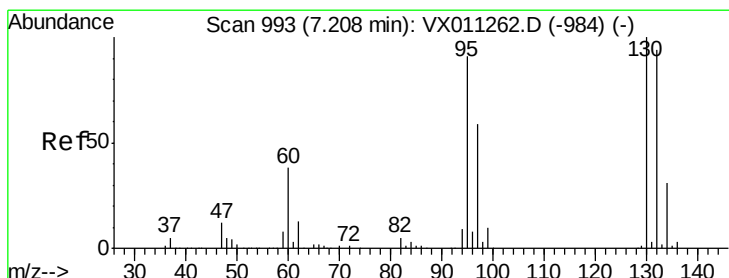
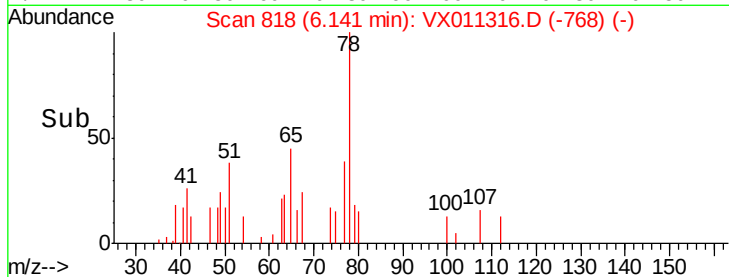
100

0

6.10

6.20

Time-->



#44

Trichloroethene

Concen: 0.272 ug/l

RT: 7.21 min Scan# 994

Delta R.T. 0.01 min

Lab File: VX011316.D

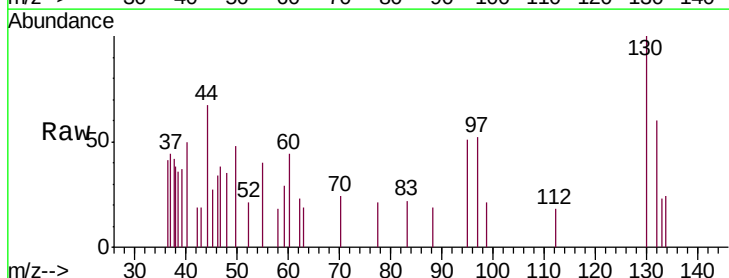
Acq: 02 Aug 2019 19:37

Tgt Ion: 130 Resp: 481

Ion Ratio Lower Upper

130 100

95 25.3 0.0 182.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

7.21

300

250

200

150

100

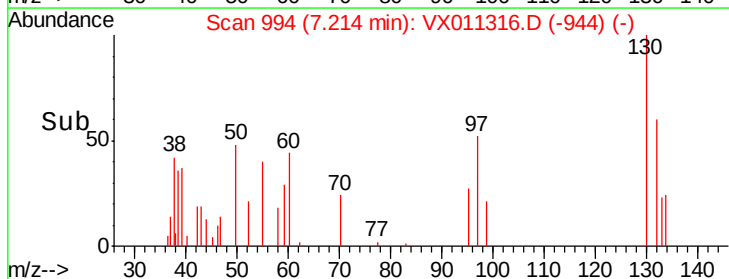
50

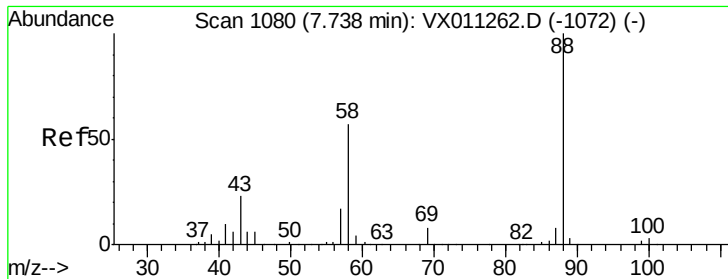
0

7.20

7.25

Time-->





#49

1,4-Dioxane

Concen: 0.957 ug/l

RT: 7.75 min Scan# 1082

Delta R.T. 0.01 min

Lab File: VX011316.D

Acq: 02 Aug 2019 19:37

Instrument :

MSVOA_N

ClientSampled :

Z3-0689

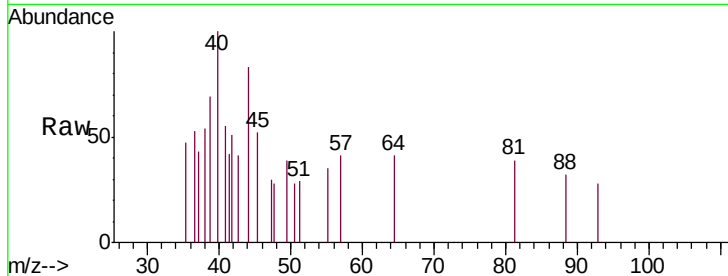
Tgt Ion: 88 Resp: 41

Ion Ratio Lower Upper

88 100

43 500.0 22.2 33.2#

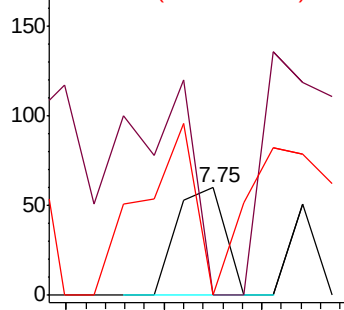
58 180.5 47.8 71.8#



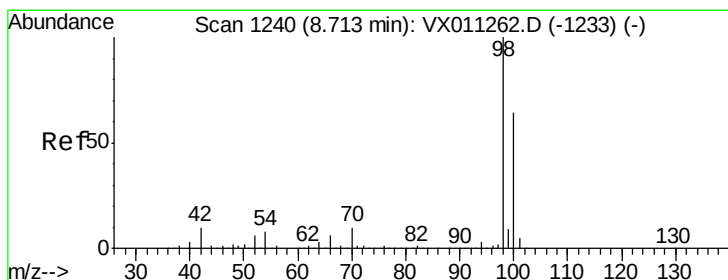
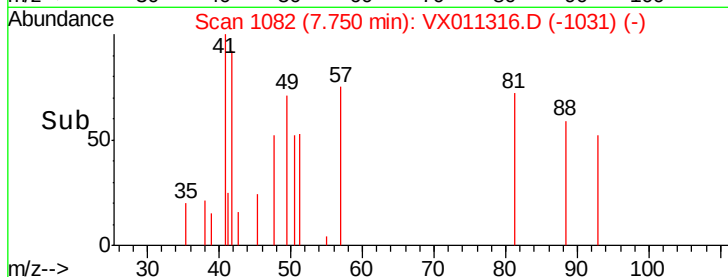
Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



Time-->



#50

Toluene-d8

Concen: 49.127 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011316.D

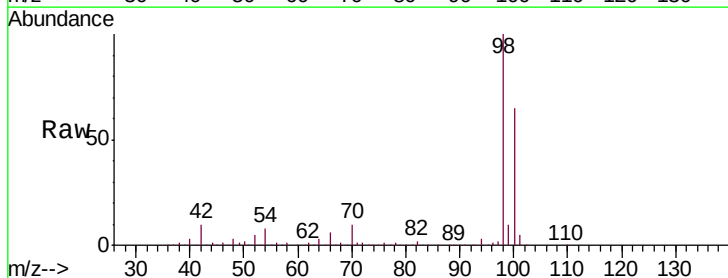
Acq: 02 Aug 2019 19:37

Tgt Ion: 98 Resp: 271455

Ion Ratio Lower Upper

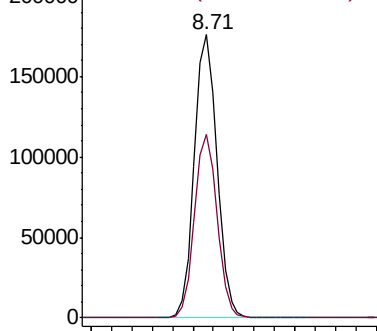
98 100

100 64.4 51.7 77.5

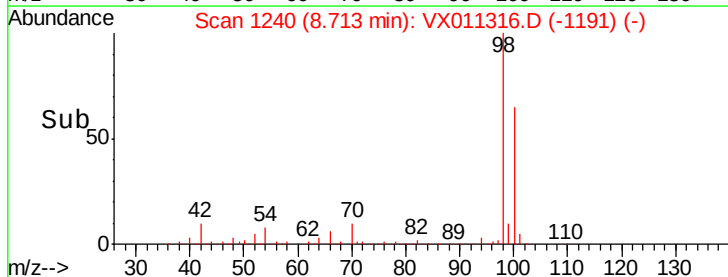


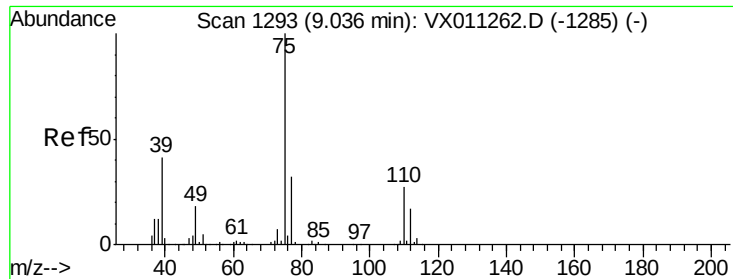
Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0



Time-->





#53

t-1,3-Dichloropropene

Concen: 2.847 ug/l

RT: 9.05 min Scan# 1296

Delta R.T. 0.02 min

Lab File: VX011316.D

Acq: 02 Aug 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

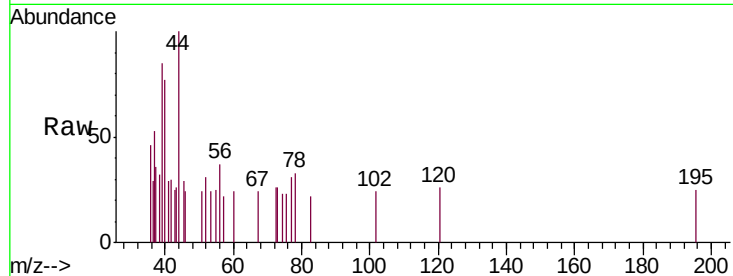
Z3-0689

Tgt Ion: 75 Resp: 19

Ion Ratio Lower Upper

75 100

77 134.0 25.4 38.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

150

100

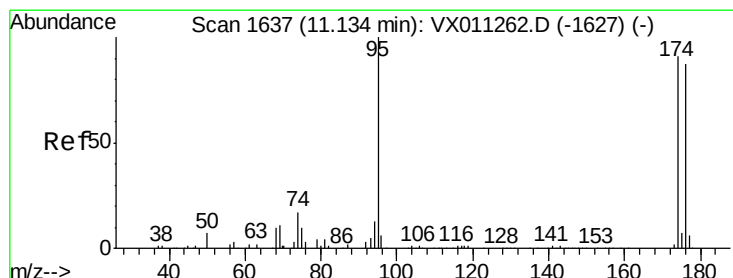
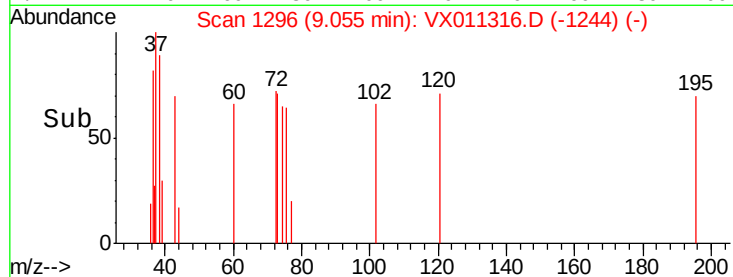
50

0

9.04 9.05 9.06 9.07

9.05

Time-->



#62

4-Bromofluorobenzene

Concen: 46.265 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011316.D

Acq: 02 Aug 2019 19:37

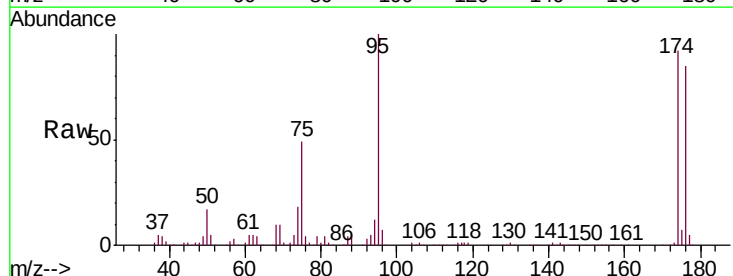
Tgt Ion: 95 Resp: 91270

Ion Ratio Lower Upper

95 100

174 93.2 0.0 191.2

176 90.4 0.0 184.8



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

100000

80000

60000

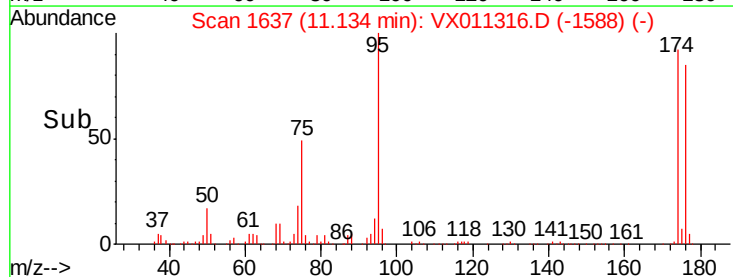
40000

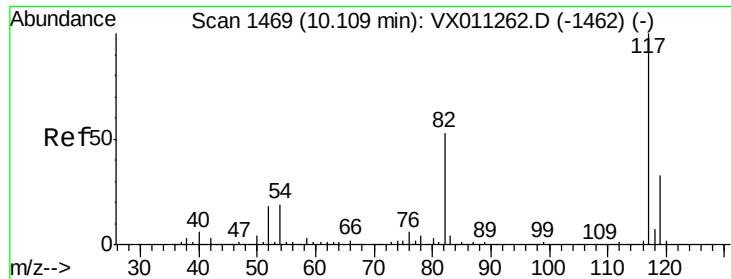
20000

0

11.10 11.13 11.20

Time-->

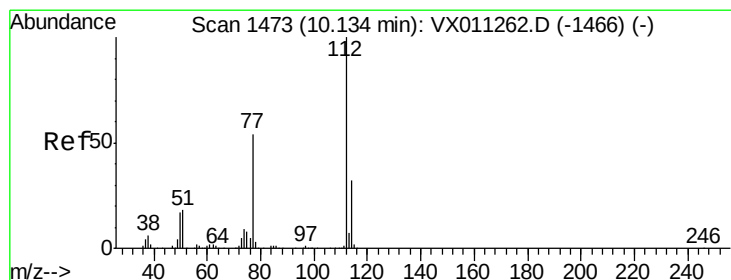
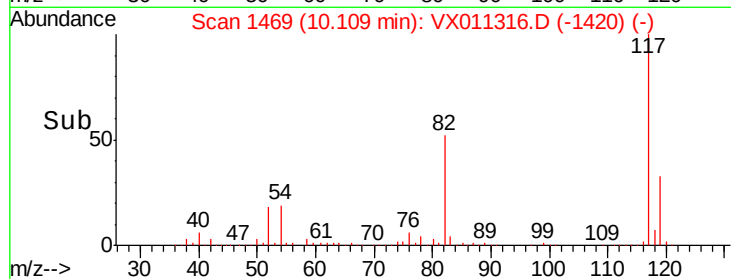
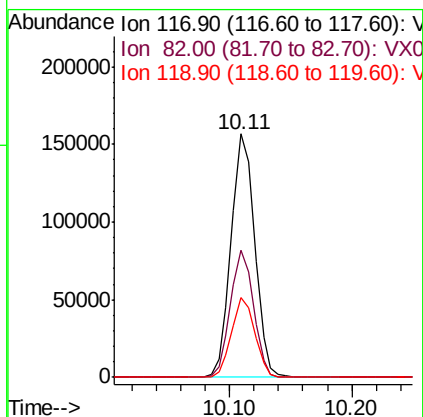
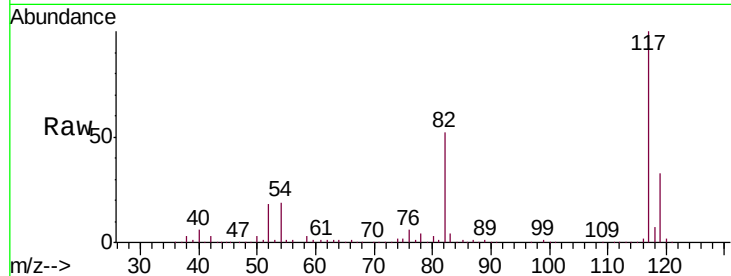




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX011316.D
Acq: 02 Aug 2019 19:37

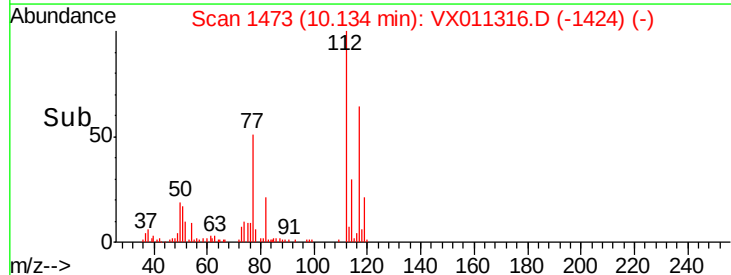
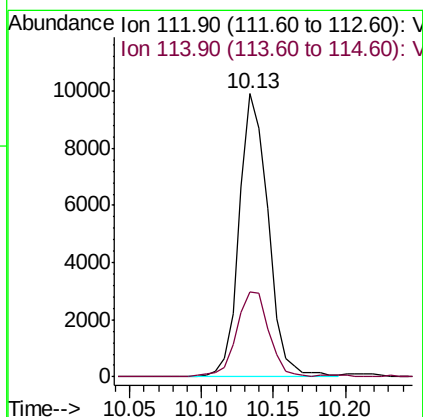
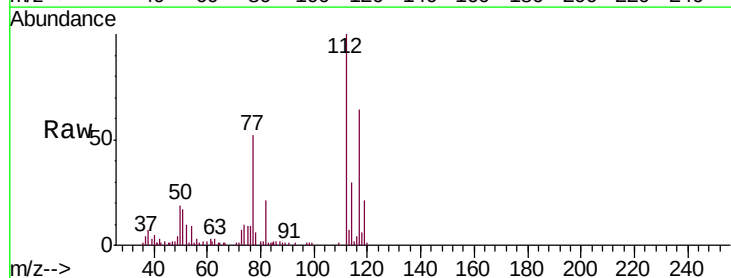
Instrument :
MSVOA_N
ClientSampled :
Z3-0689

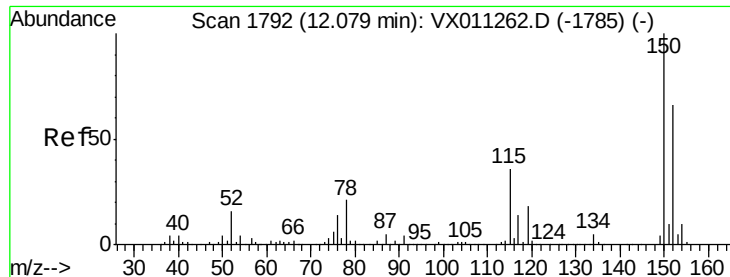
Tgt Ion:117 Resp: 209760
Ion Ratio Lower Upper
117 100
82 52.1 42.2 63.2
119 32.6 26.6 39.8



#65
Chlorobenzene
Concen: 3.083 ug/l
RT: 10.13 min Scan# 1473
Delta R.T. -0.00 min
Lab File: VX011316.D
Acq: 02 Aug 2019 19:37

Tgt Ion:112 Resp: 13865
Ion Ratio Lower Upper
112 100
114 30.0 25.9 38.9



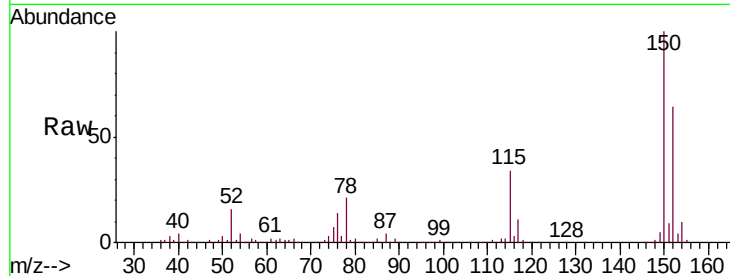


#72

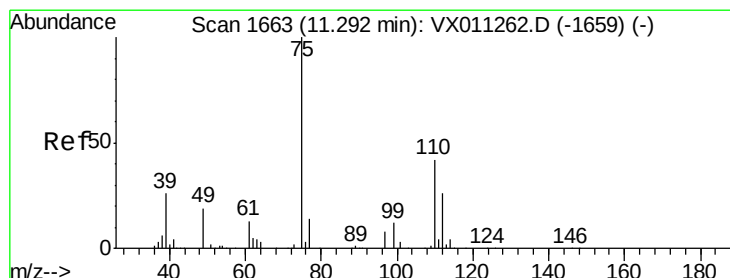
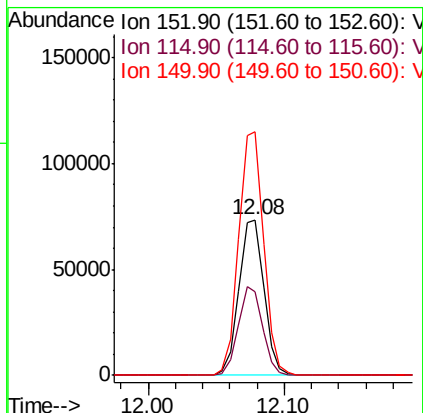
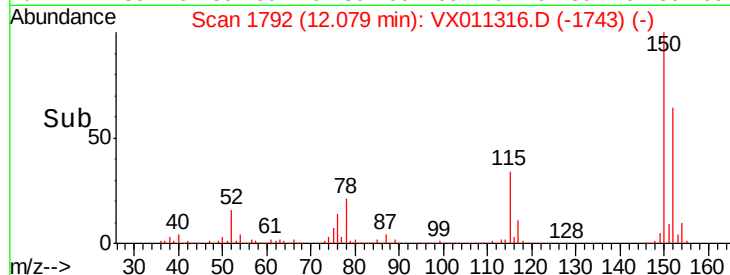
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX011316.D
Acq: 02 Aug 2019 19:37

Instrument :
MSVOA_N
ClientSampled :
Z3-0689

Tgt Ion:152 Resp: 94406
Ion Ratio Lower Upper
152 100
115 54.9 40.0 119.9
150 155.8 0.0 350.4



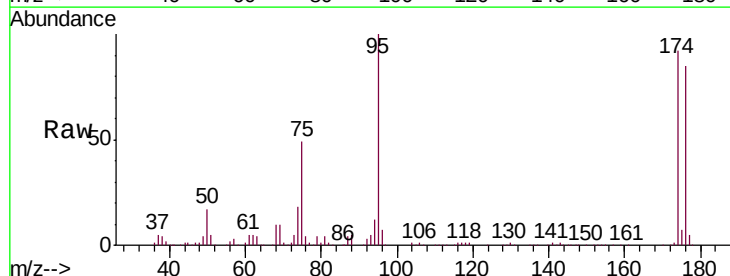
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



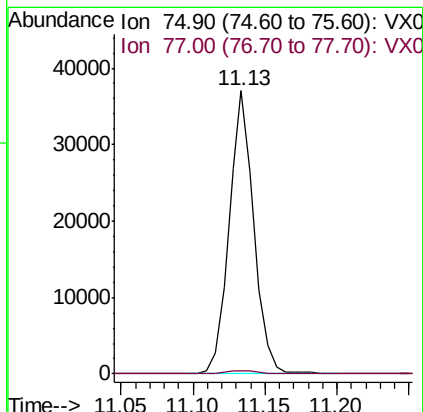
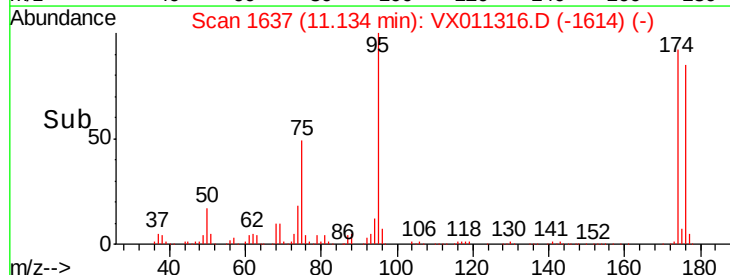
#76

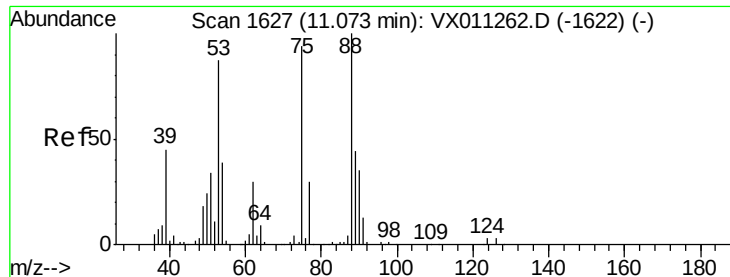
1,2,3-Trichloropropane
Concen: 25.858 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX011316.D
Acq: 02 Aug 2019 19:37

Tgt Ion: 75 Resp: 44456
Ion Ratio Lower Upper
75 100
77 1.6 21.1 63.4#



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: 67.323 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011316.D

Acq: 02 Aug 2019 19:37

Instrument :

MSVOA_N

ClientSampleId :

Z3-0689

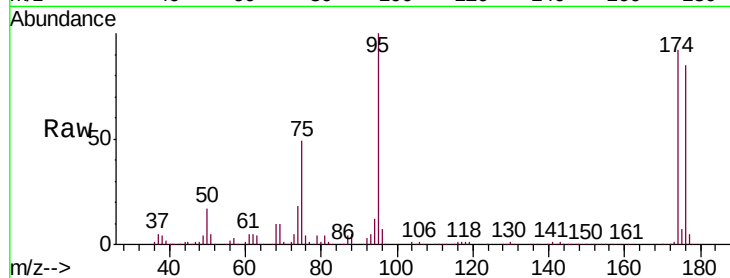
Tgt Ion: 75 Resp: 44456

Ion Ratio Lower Upper

75 100

53 0.1 78.2 117.4#

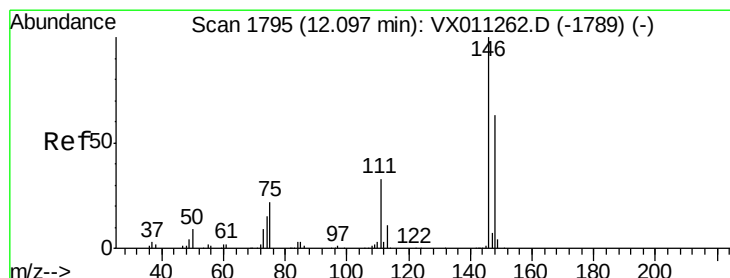
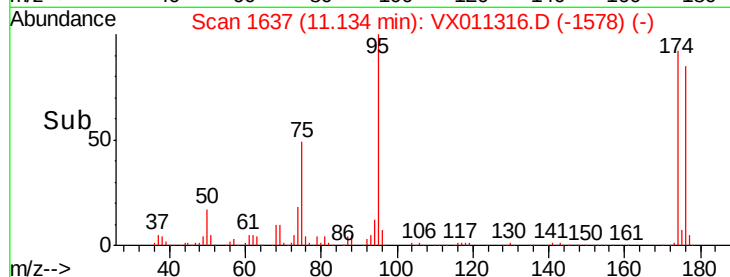
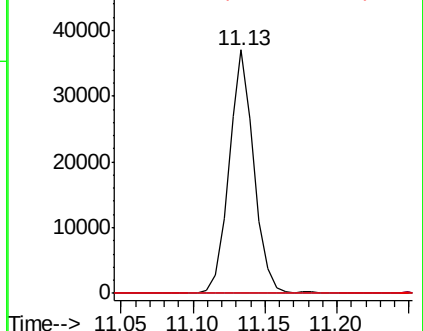
89 0.0 37.9 56.9#



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



#88

1,4-Dichlorobenzene

Concen: 0.366 ug/l

RT: 12.10 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VX011316.D

Acq: 02 Aug 2019 19:37

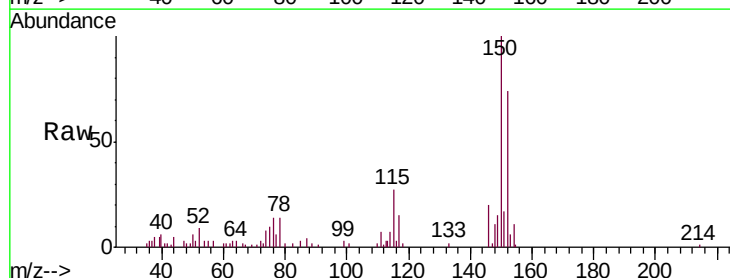
Tgt Ion: 146 Resp: 1193

Ion Ratio Lower Upper

146 100

111 134.2 17.8 53.4#

148 102.8 31.8 95.3#



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

