

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072919\
 Data File : VX011168.D
 Acq On : 30 Jul 2019 01:09
 Operator : JC/SP
 Sample : K4026-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-ER-2019-2

Quant Time: Jul 30 05:13:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 24 05:39:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	182687	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	293124	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	279933	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	130900	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	102446	52.71	ug/l	0.00
Spiked Amount			Recovery	=	105.42%	
35) Dibromofluoromethane	5.50	113	94445	50.76	ug/l	0.00
Spiked Amount			Recovery	=	101.52%	
50) Toluene-d8	8.71	98	357230	51.19	ug/l	0.00
Spiked Amount			Recovery	=	102.38%	
62) 4-Bromofluorobenzene	11.13	95	125612	48.97	ug/l	0.00
Spiked Amount			Recovery	=	97.94%	

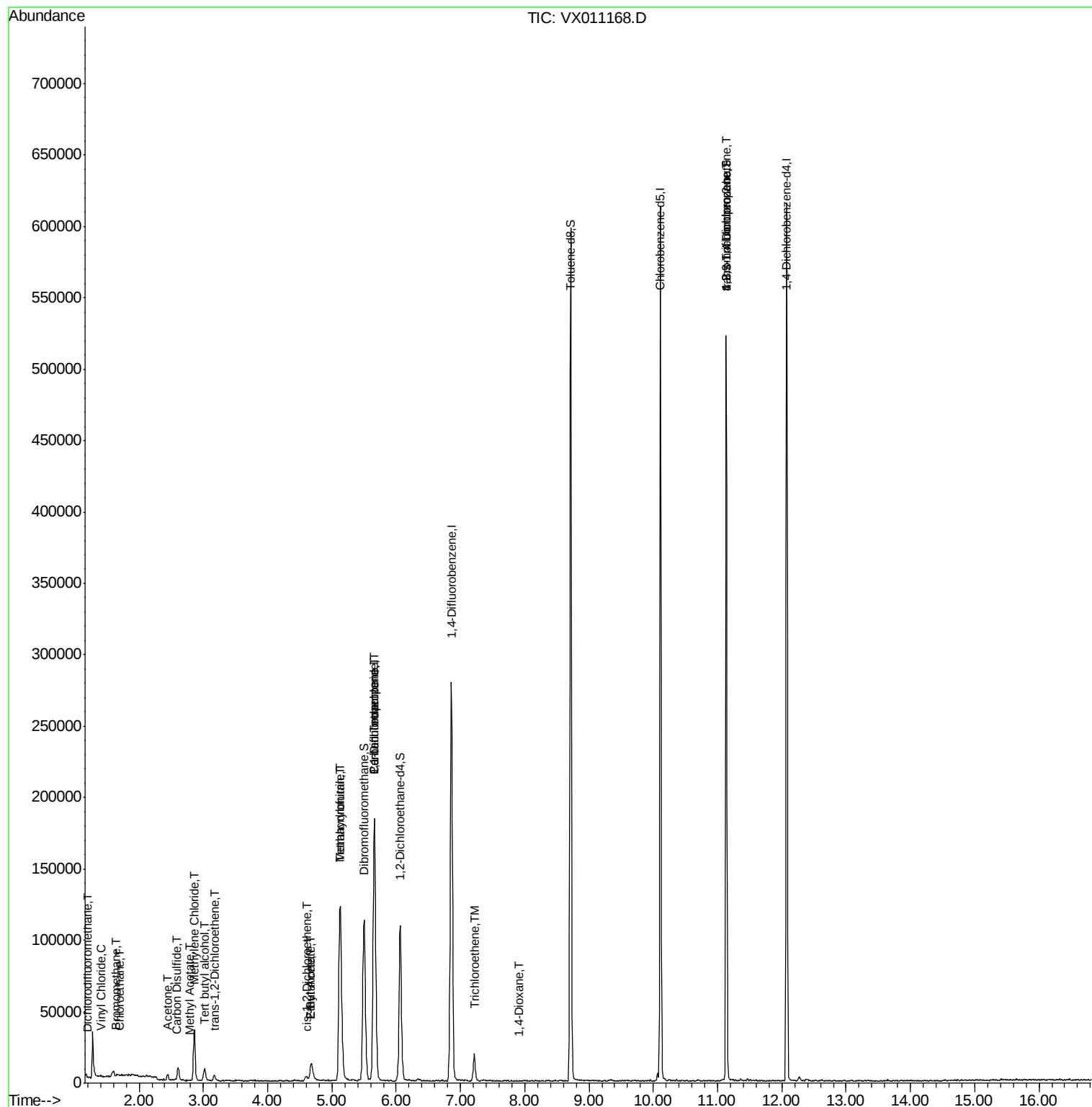
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	55	0.574	ug/l #	43
4) Vinyl Chloride	1.41	62	523	0.305	ug/l #	76
5) Bromomethane	1.65	94	619	0.641	ug/l	90
6) Chloroethane	1.70	64	1719	1.579	ug/l #	45
11) Tert butyl alcohol	3.01	59	4758	10.512	ug/l #	83
16) Acetone	2.44	43	4972	5.664	ug/l	93
17) Carbon Disulfide	2.57	76	1371	0.328	ug/l #	82
18) Methyl Acetate	2.78	43	417	0.209	ug/l #	88
20) Methylene Chloride	2.86	84	18004	9.678	ug/l	91
21) trans-1,2-Dichloroethene	3.18	96	1648	0.954	ug/l #	69
25) 2-Butanone	4.67	43	17113	13.581	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	2180	1.091	ug/l	94
29) Tetrahydrofuran	5.13	42	113332	141.991	ug/l	98
36) 1,1-Dichloropropene	5.66	75	12503	5.193	ug/l #	49
37) Ethyl Acetate	4.67	43	17113	6.941	ug/l #	70
38) Carbon Tetrachloride	5.67	117	17117	6.822	ug/l #	18
41) Methacrylonitrile	5.13	41	65492	46.794	ug/l #	40
44) Trichloroethene	7.21	130	7179	3.288	ug/l	97
49) 1,4-Dioxane	7.91	88	24	0.434	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	63189	26.751	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	63189	66.359	ug/l #	11

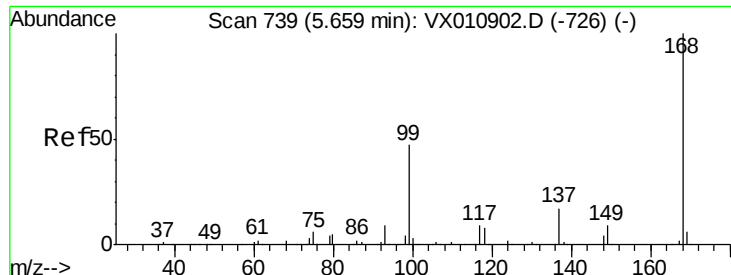
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Jul 30 05:13:17 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X071619W.M
Quant Title : SW846 8260
QLast Update : Wed Jul 24 05:39:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX011168.D

Acq: 30 Jul 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

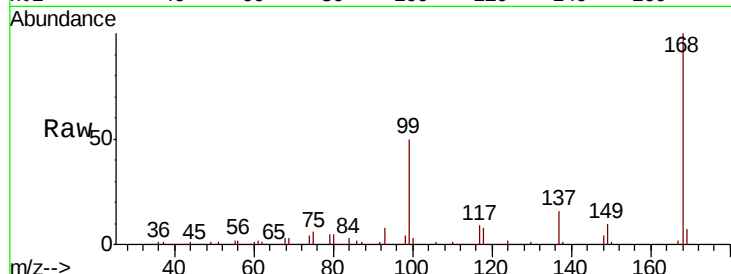
Z3-ER-2019-2

Tot Ion:168 Resp: 182687

Ion Ratio Lower Upper

168 100

99 49.8 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.66

60000

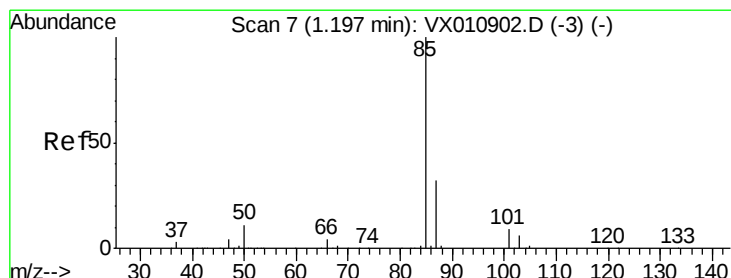
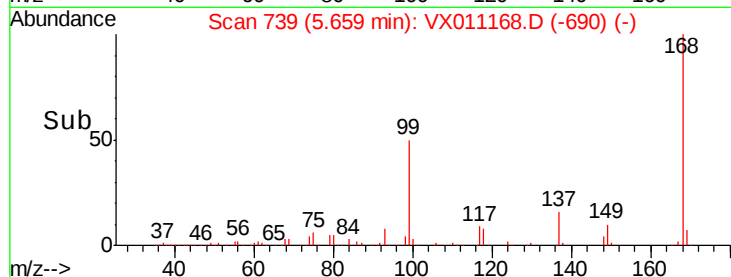
40000

20000

0

Time-->

5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.574 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX011168.D

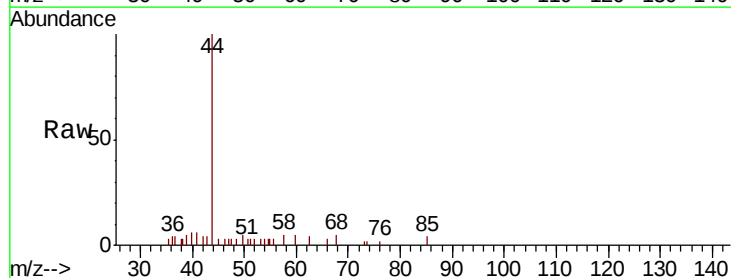
Acq: 30 Jul 2019 01:09

Tgt Ion: 85 Resp: 55

Ion Ratio Lower Upper

85 100

87 0.0 15.9 47.7#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

100

80

60

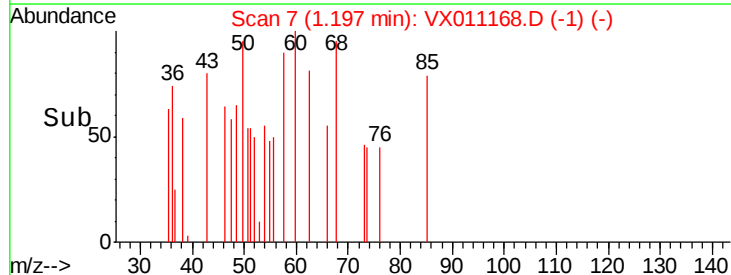
40

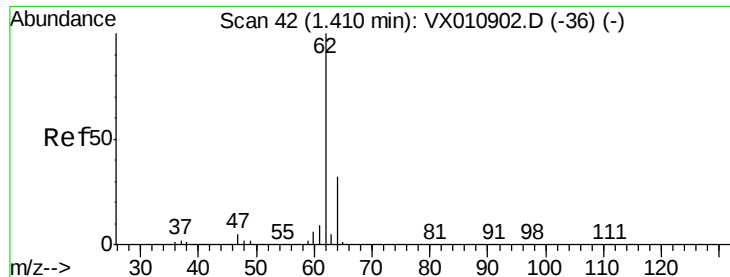
20

0

Time-->

1.18 1.20 1.22





#4

Vinyl Chloride

Concen: 0.305 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX011168.D

Acq: 30 Jul 2019 01:09

Instrument :

MSVOA_X

ClientSampled :

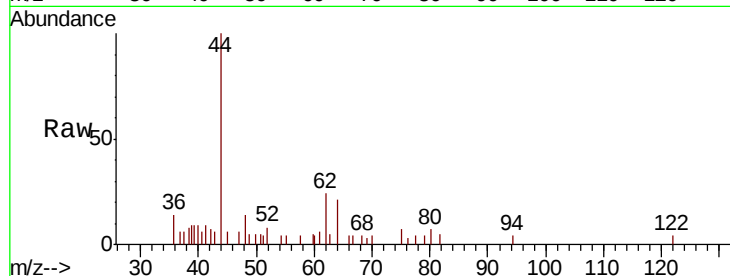
Z3-ER-2019-2

Tot Ion: 62 Resp: 523

Ion Ratio Lower Upper

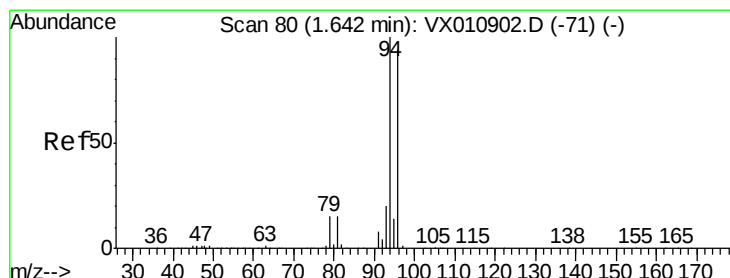
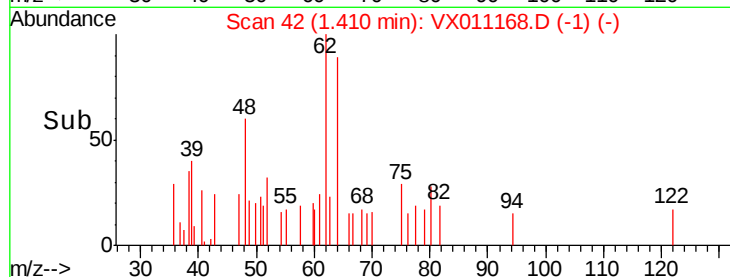
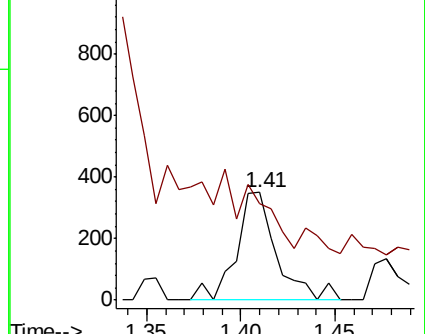
62 100

64 45.3 25.7 38.5#



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.641 ug/l

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX011168.D

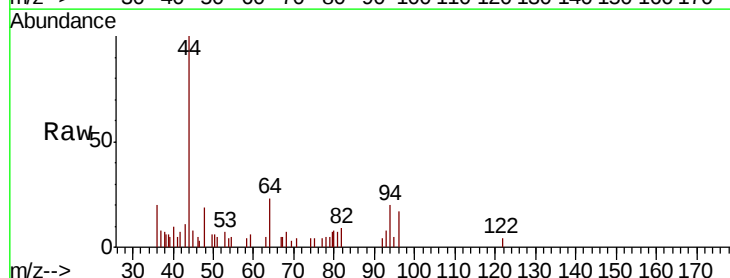
Acq: 30 Jul 2019 01:09

Tgt Ion: 94 Resp: 619

Ion Ratio Lower Upper

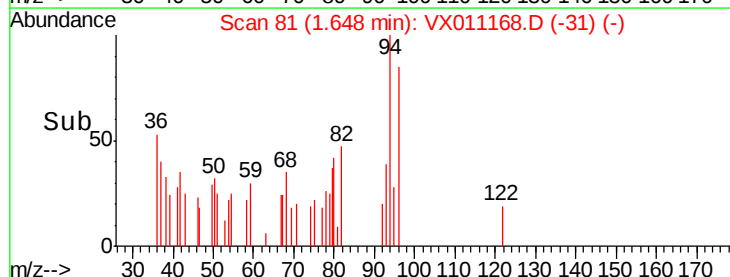
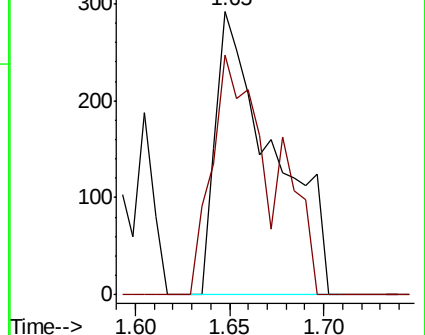
94 100

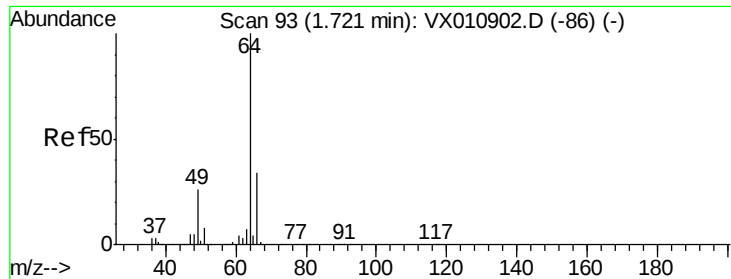
96 84.6 75.6 113.4



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 1.579 ug/l

RT: 1.70 min Scan# 89

Delta R.T. -0.02 min

Lab File: VX011168.D

Acq: 30 Jul 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

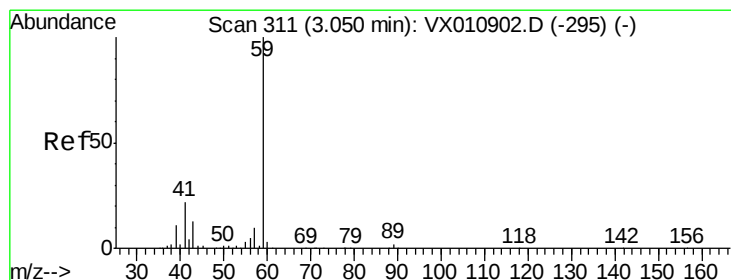
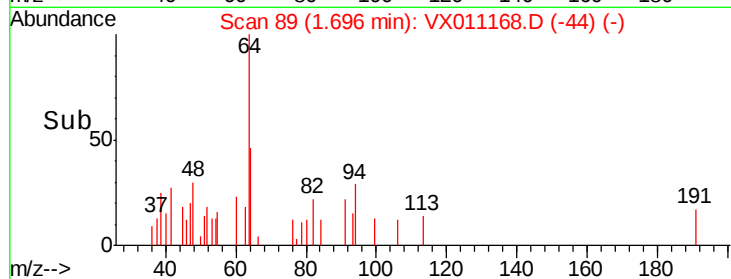
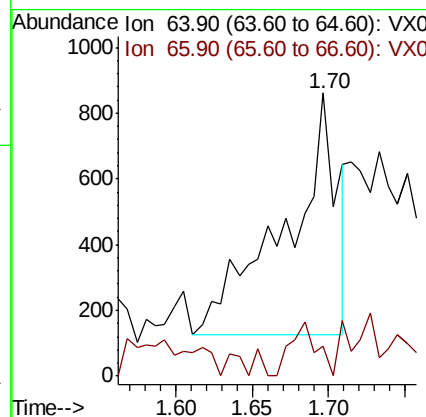
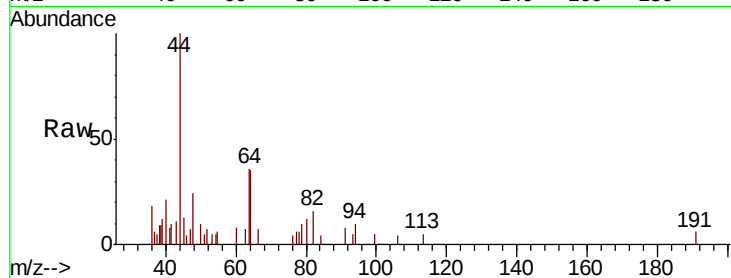
Z3-ER-2019-2

Tot Ion: 64 Resp: 1719

Ion Ratio Lower Upper

64 100

66 2.3 27.0 40.6#



#11

Tert butyl alcohol

Concen: 10.512 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.04 min

Lab File: VX011168.D

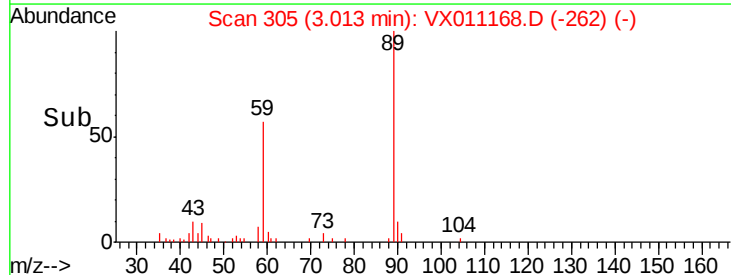
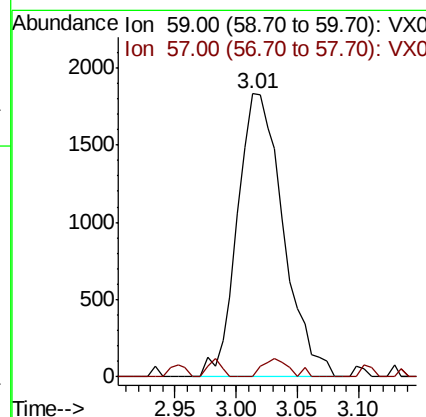
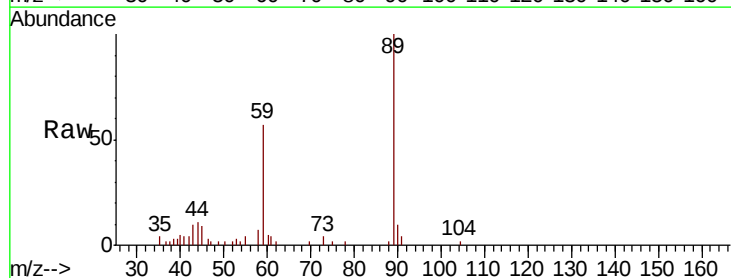
Acq: 30 Jul 2019 01:09

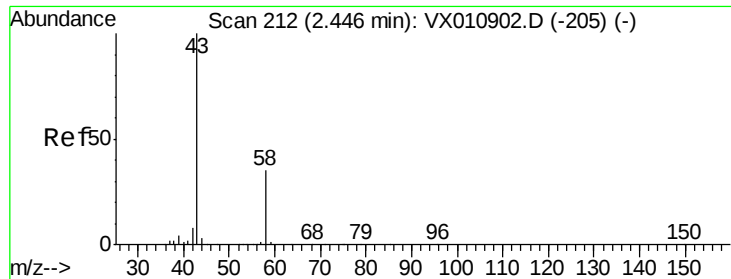
Tgt Ion: 59 Resp: 4758

Ion Ratio Lower Upper

59 100

57 3.8 7.9 11.9#





#16

Acetone

Concen: 5.664 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX011168.D

Acq: 30 Jul 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

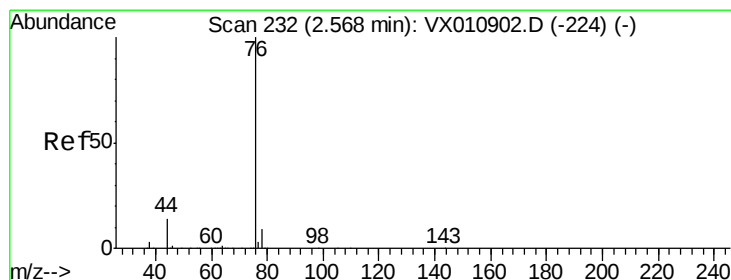
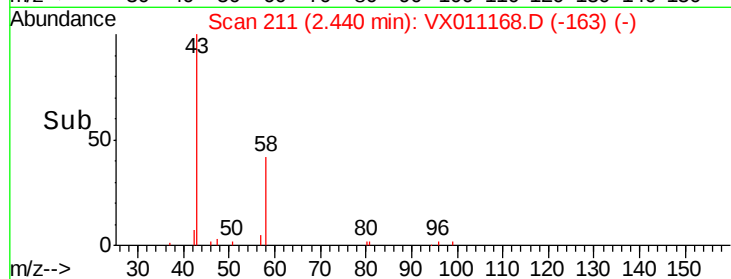
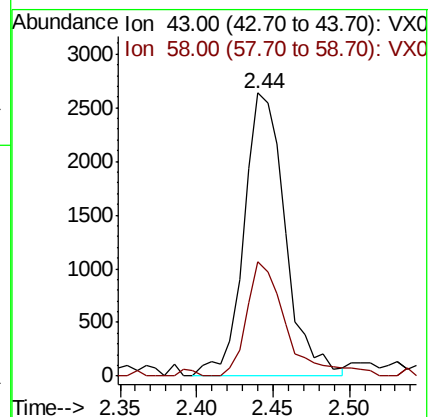
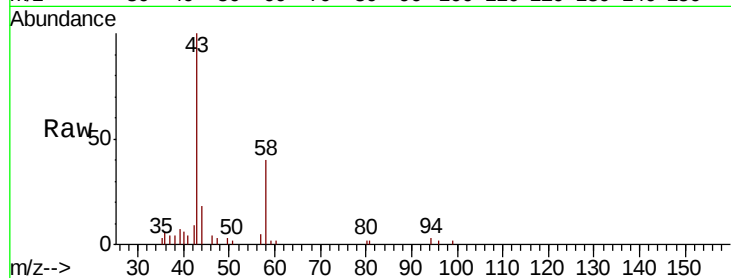
Z3-ER-2019-2

Tot Ion: 43 Resp: 4972

Ion Ratio Lower Upper

43 100

58 38.4 27.7 41.5



#17

Carbon Disulfide

Concen: 0.328 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX011168.D

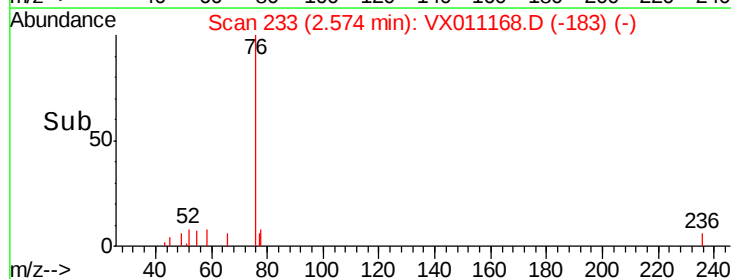
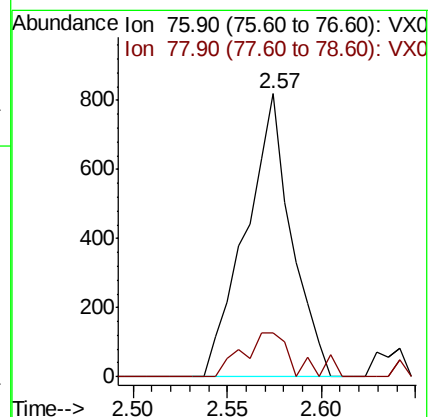
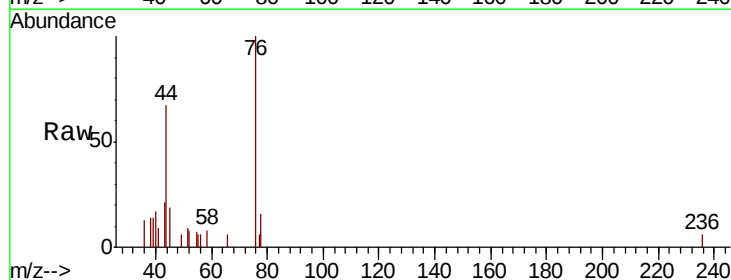
Acq: 30 Jul 2019 01:09

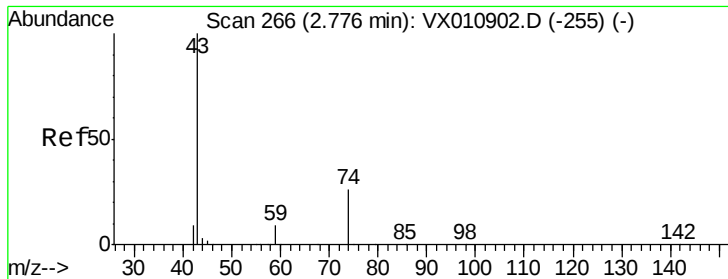
Tgt Ion: 76 Resp: 1371

Ion Ratio Lower Upper

76 100

78 15.6 7.4 11.0#

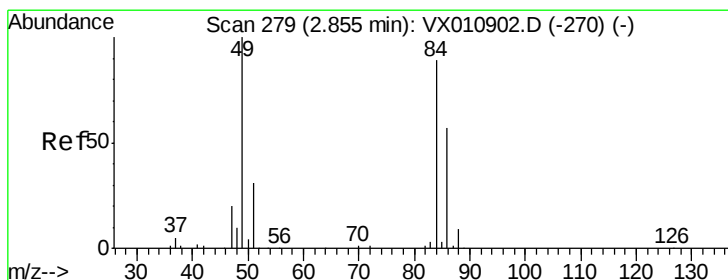
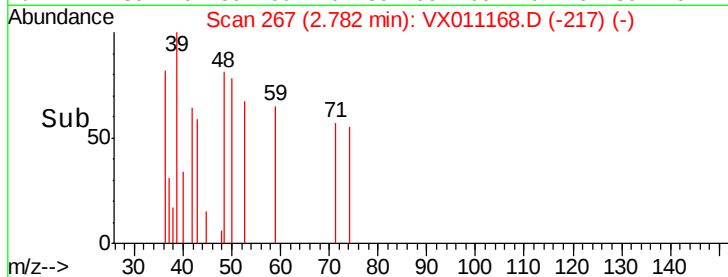
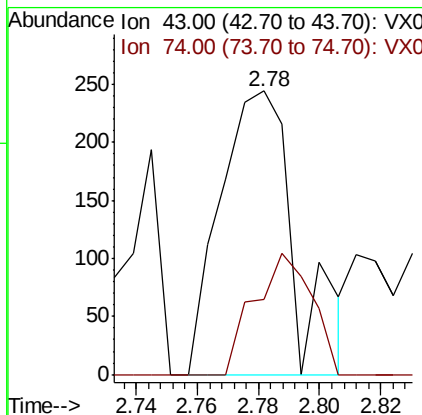
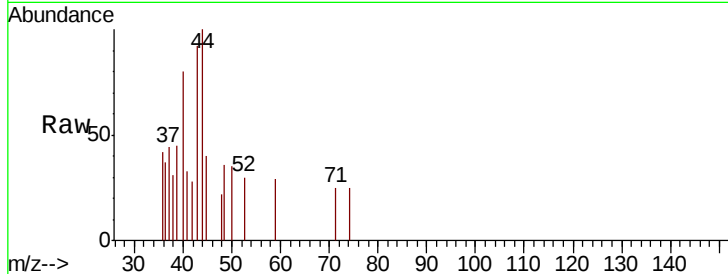




#18
Methyl Acetate
Concen: 0.209 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX011168.D
Acq: 30 Jul 2019 01:09

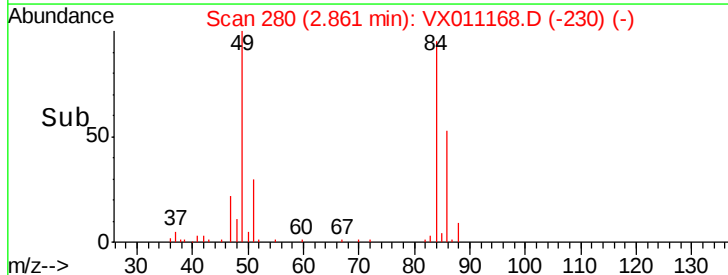
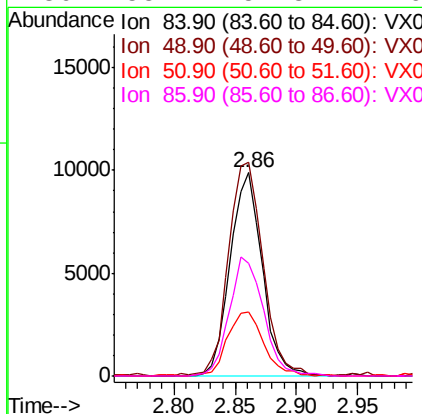
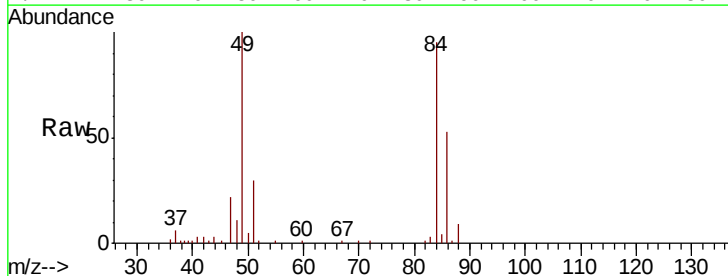
Instrument :
MSVOA_X
ClientSampled :
Z3-ER-2019-2

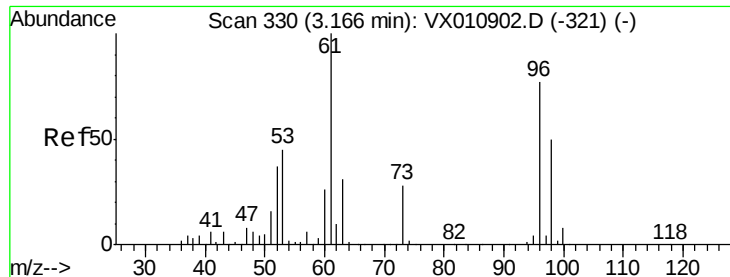
Tot Ion: 43 Resp: 417
Ion Ratio Lower Upper
43 100
74 32.9 21.5 32.3#



#20
Methylene Chloride
Concen: 9.678 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX011168.D
Acq: 30 Jul 2019 01:09

Tgt Ion: 84 Resp: 18004
Ion Ratio Lower Upper
84 100
49 104.3 89.9 134.9
51 31.6 27.8 41.6
86 55.4 51.8 77.6





#21

trans-1,2-Dichloroethene

Concen: 0.954 ug/l

RT: 3.18 min Scan# 332

Delta R.T. 0.01 min

Lab File: VX011168.D

Acq: 30 Jul 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

Z3-ER-2019-2

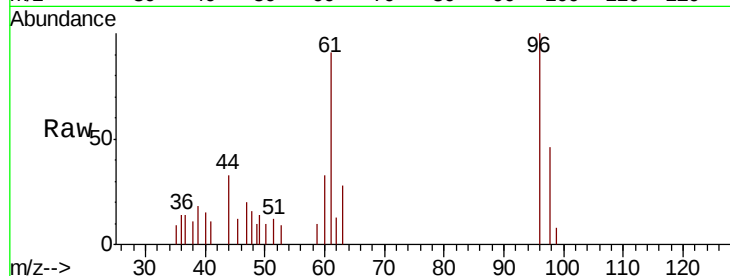
Tot Ion: 96 Resp: 1648

Ion Ratio Lower Upper

96 100

61 90.8 104.2 156.2#

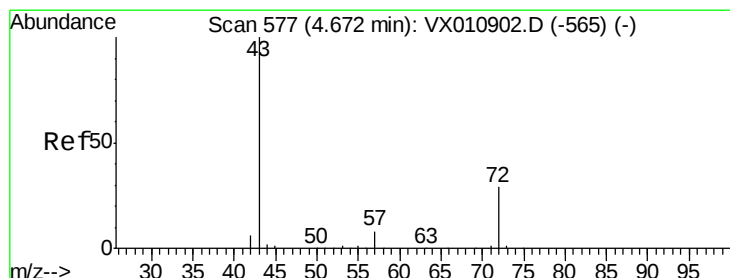
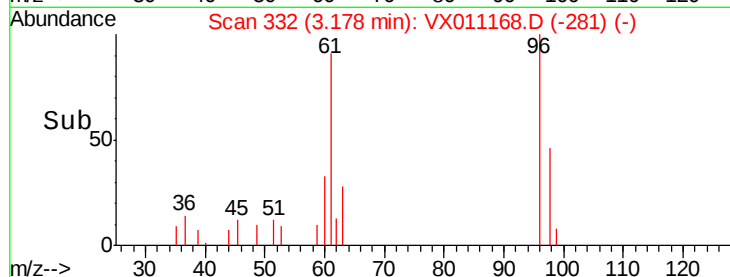
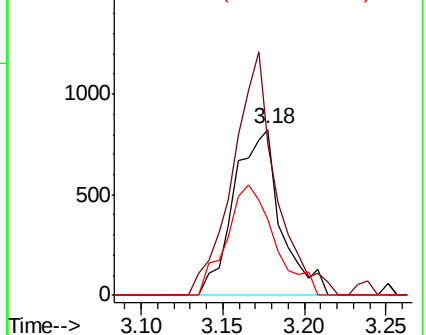
98 45.9 52.2 78.4#



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



#25

2-Butanone

Concen: 13.581 ug/l

RT: 4.67 min Scan# 577

Delta R.T. -0.00 min

Lab File: VX011168.D

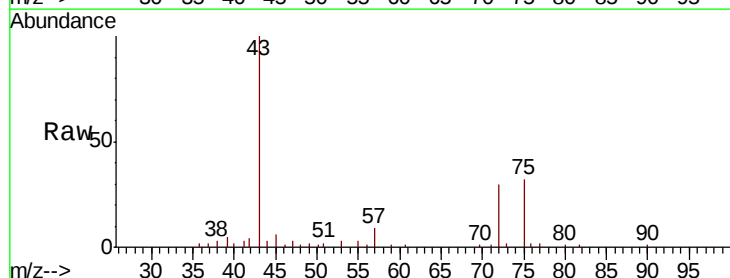
Acq: 30 Jul 2019 01:09

Tgt Ion: 43 Resp: 17113

Ion Ratio Lower Upper

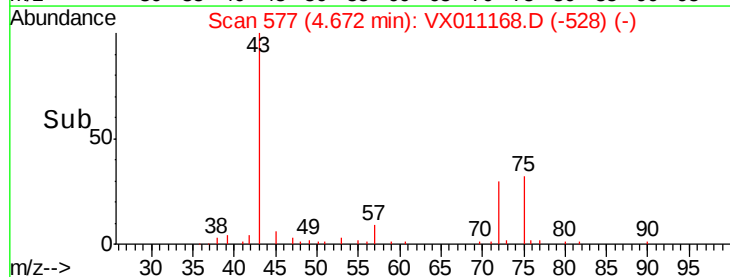
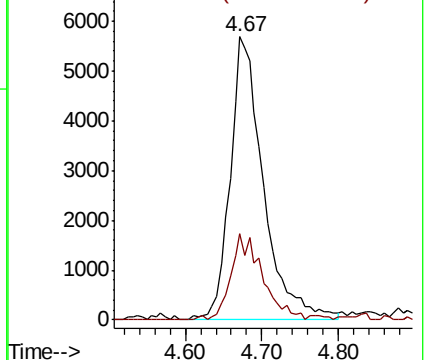
43 100

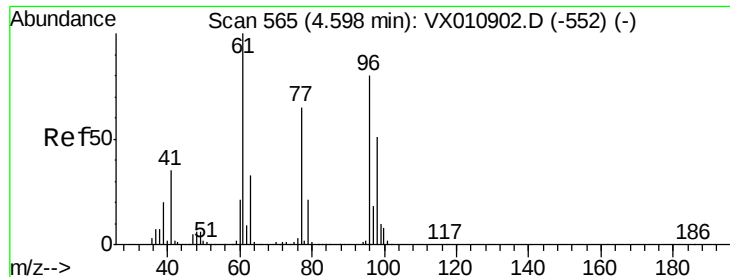
72 30.4 23.0 34.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



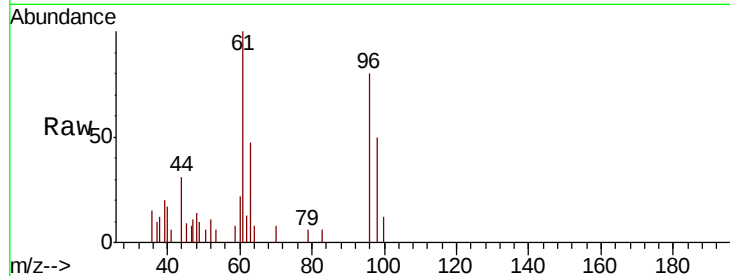


#27

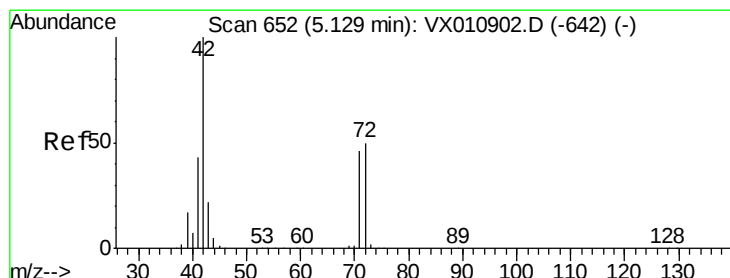
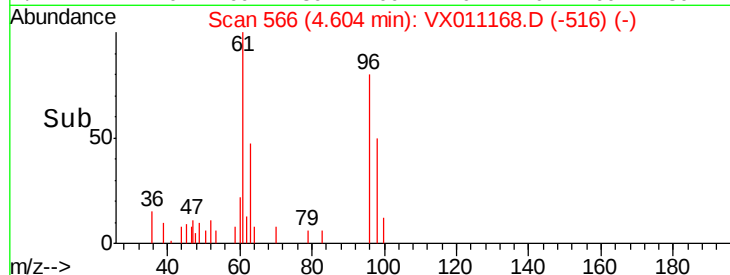
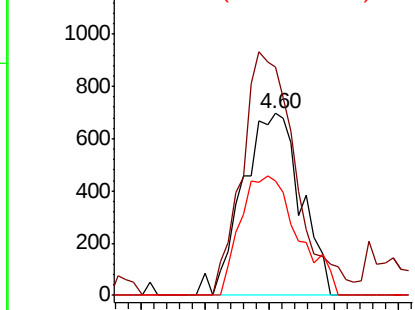
cis-1,2-Dichloroethene
 Concen: 1.091 ug/l
 RT: 4.60 min Scan# 566
 Delta R.T. 0.01 min
 Lab File: VX011168.D
 Acq: 30 Jul 2019 01:09

Instrument :
 MSVOA_X
 ClientSampleId :
 Z3-ER-2019-2

Tot Ion	96	Resp	2180
Ion	Ratio	Lower	Upper
96	100		
61	123.7	0.0	269.0
98	65.0	0.0	131.4



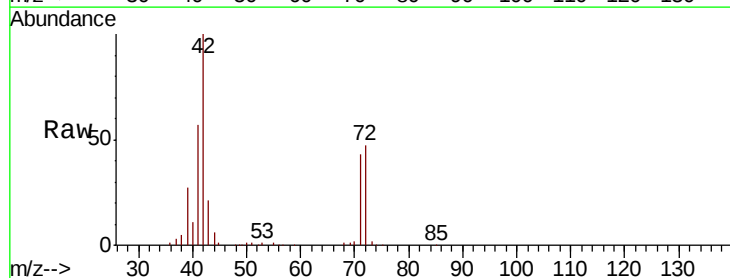
Abundance Ion 95.90 (95.60 to 96.60): VX0
 Ion 60.90 (60.60 to 61.60): VX0
 Ion 97.90 (97.60 to 98.60): VX0



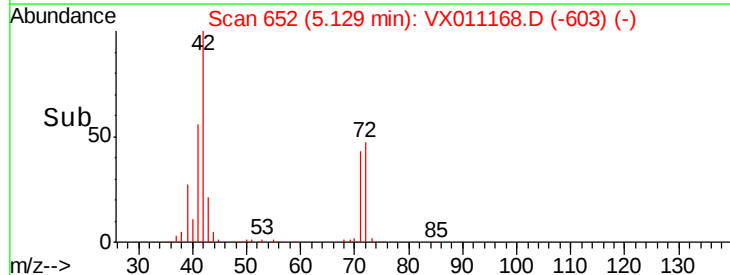
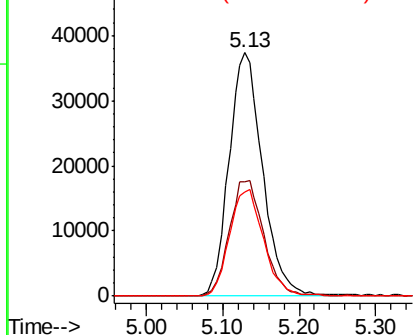
#29

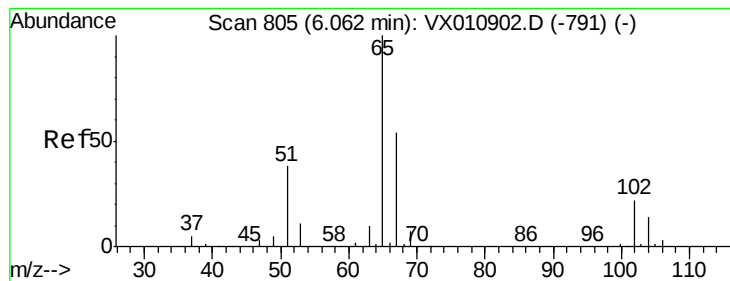
Tetrahydrofuran
 Concen: 141.991 ug/l
 RT: 5.13 min Scan# 652
 Delta R.T. -0.00 min
 Lab File: VX011168.D
 Acq: 30 Jul 2019 01:09

Tgt Ion	42	Resp	113332
Ion	Ratio	Lower	Upper
42	100		
72	48.3	39.8	59.8
71	44.6	37.0	55.4



Abundance Ion 42.00 (41.70 to 42.70): VX0
 Ion 72.00 (71.70 to 72.70): VX0
 Ion 71.00 (70.70 to 71.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 52.712 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX011168.D

Acq: 30 Jul 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

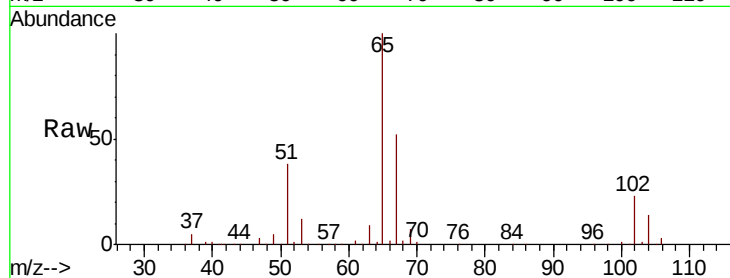
Z3-ER-2019-2

Tot Ion: 65 Resp: 102446

Ion Ratio Lower Upper

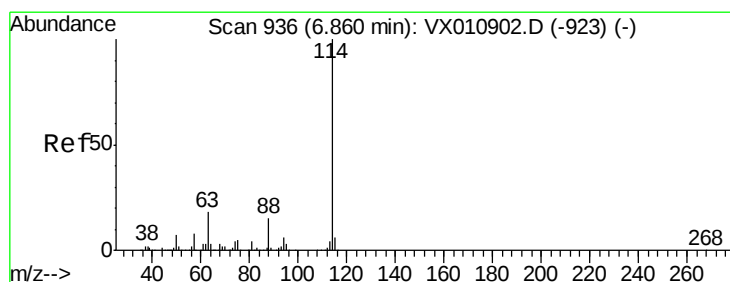
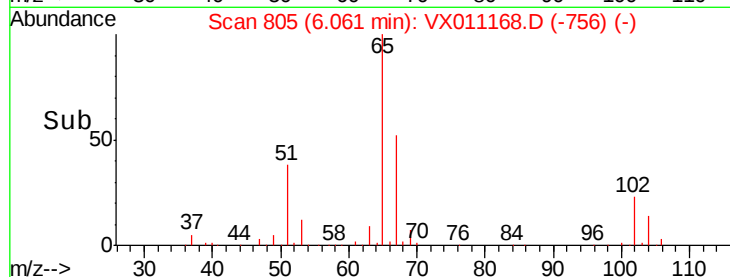
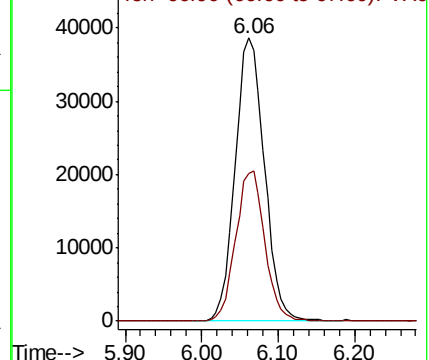
65 100

67 52.5 0.0 107.8



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX011168.D

Acq: 30 Jul 2019 01:09

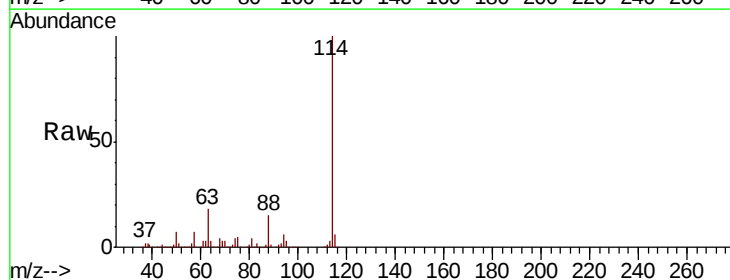
Tgt Ion: 114 Resp: 293124

Ion Ratio Lower Upper

114 100

63 18.1 0.0 35.6

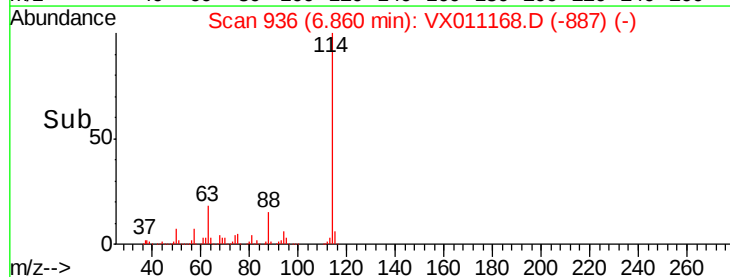
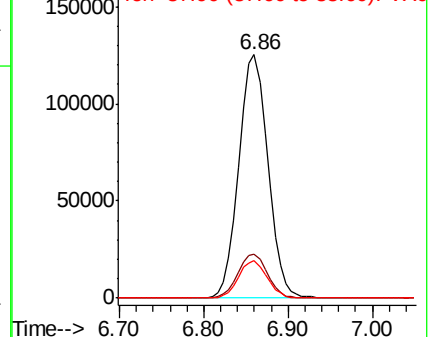
88 15.5 0.0 29.8

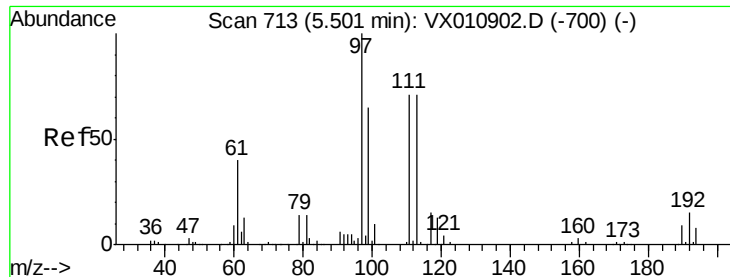


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 50.763 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011168.D

Acq: 30 Jul 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

Z3-ER-2019-2

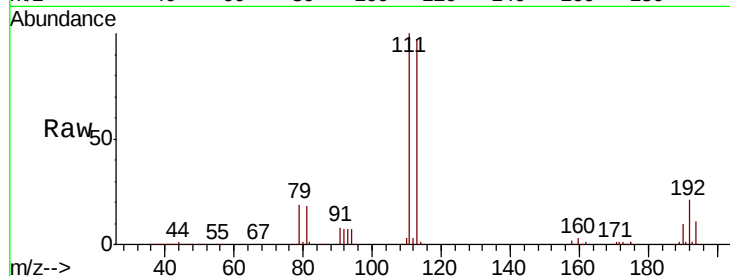
Tot Ion:113 Resp: 94445

Ion Ratio Lower Upper

113 100

111 103.0 82.3 123.5

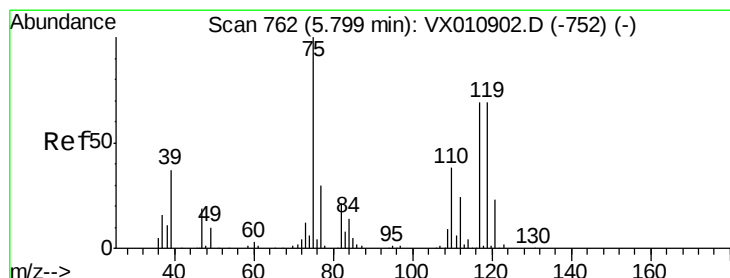
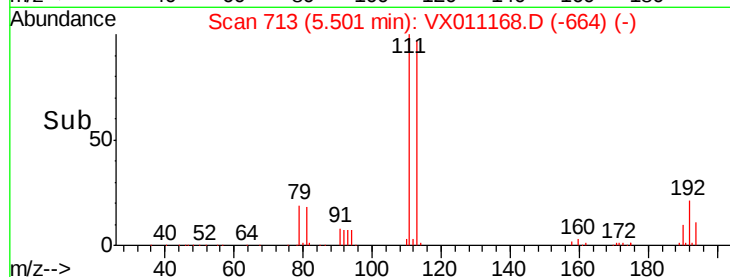
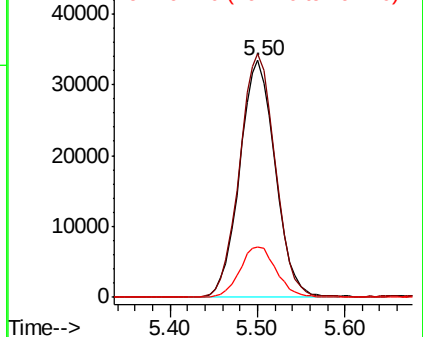
192 21.8 17.4 26.2



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: 5.193 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX011168.D

Acq: 30 Jul 2019 01:09

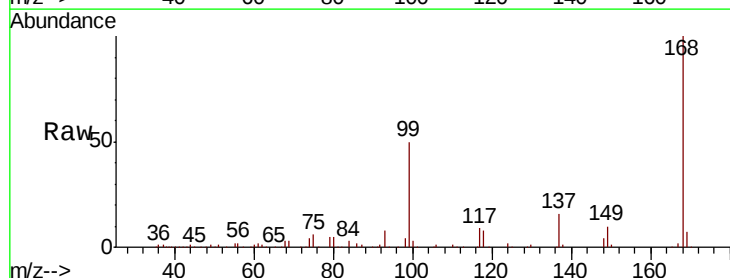
Tgt Ion: 75 Resp: 12503

Ion Ratio Lower Upper

75 100

110 10.7 19.9 59.7#

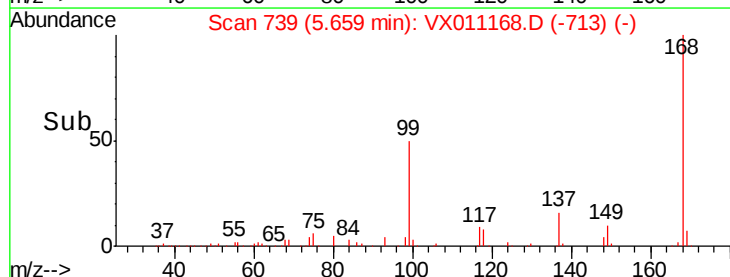
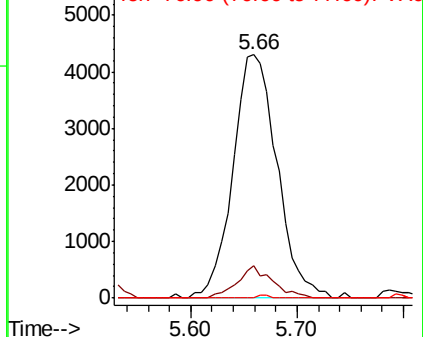
77 0.3 25.0 37.4#

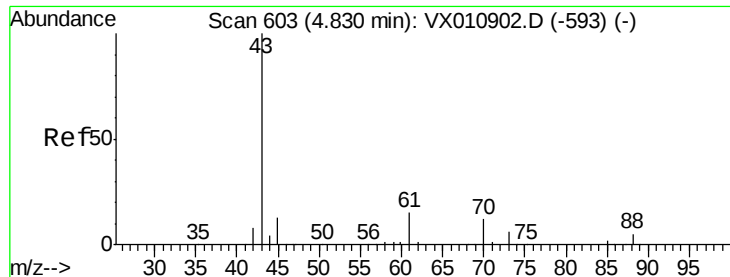


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

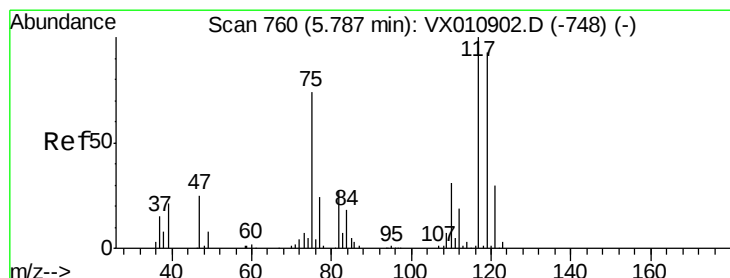
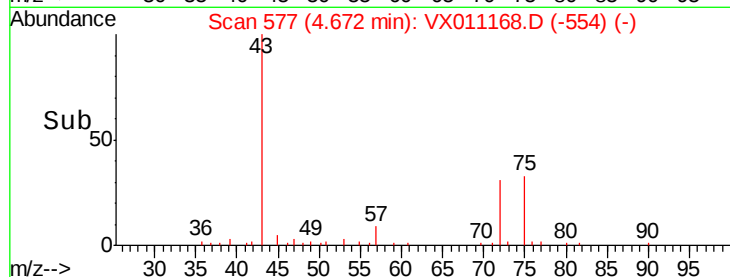
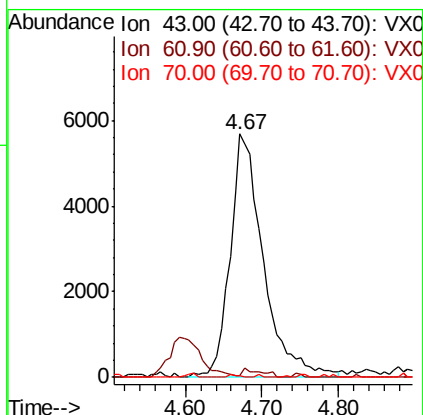
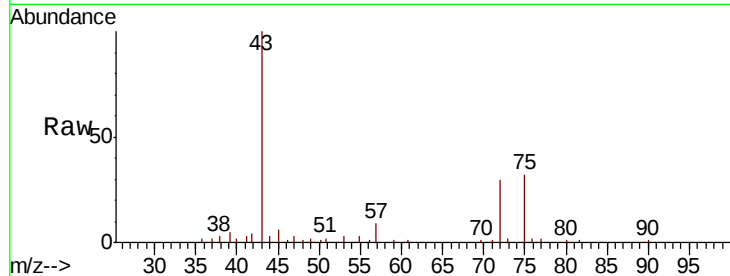




#37
Ethyl Acetate
Concen: 6.941 ug/l
RT: 4.67 min Scan# 577
Delta R.T. -0.16 min
Lab File: VX011168.D
Acq: 30 Jul 2019 01:09

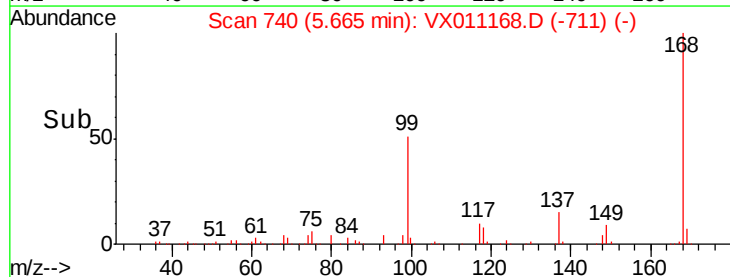
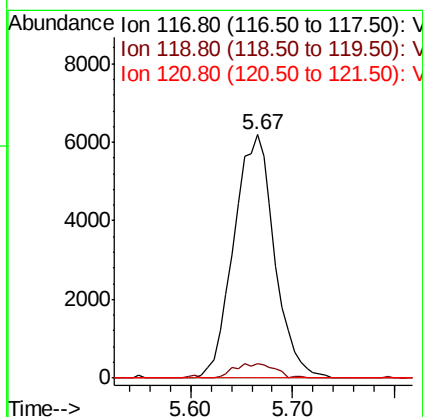
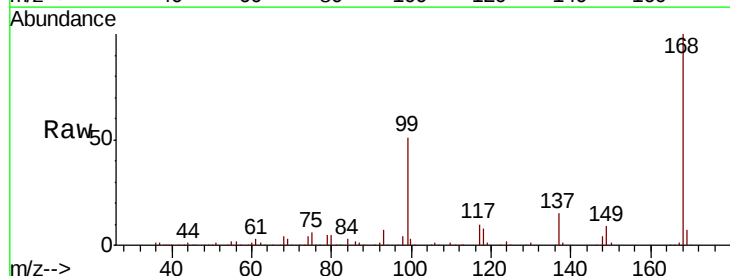
Instrument :
MSVOA_X
ClientSampleId :
Z3-ER-2019-2

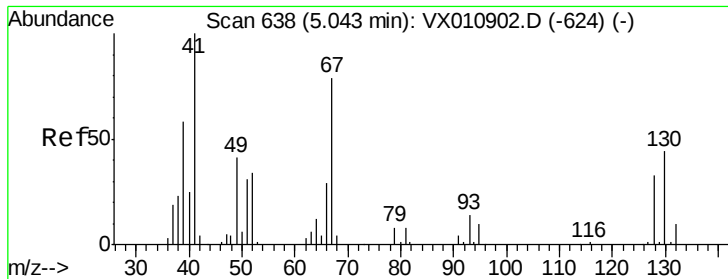
Tot Ion: 43 Resp: 17113
Ion Ratio Lower Upper
43 100
61 2.1 11.6 17.4#
70 0.4 9.1 13.7#



#38
Carbon Tetrachloride
Concen: 6.822 ug/l
RT: 5.67 min Scan# 740
Delta R.T. -0.12 min
Lab File: VX011168.D
Acq: 30 Jul 2019 01:09

Tgt Ion: 117 Resp: 17117
Ion Ratio Lower Upper
117 100
119 5.8 74.2 111.2#
121 0.0 24.2 36.2#





#41

Methacrylonitrile

Concen: 46.794 ug/l

RT: 5.13 min Scan# 652

Delta R.T. 0.09 min

Lab File: VX011168.D

Acq: 30 Jul 2019 01:09

Instrument :

MSVOA_X

ClientSampled :

Z3-ER-2019-2

Tot Ion: 41 Resp: 65492

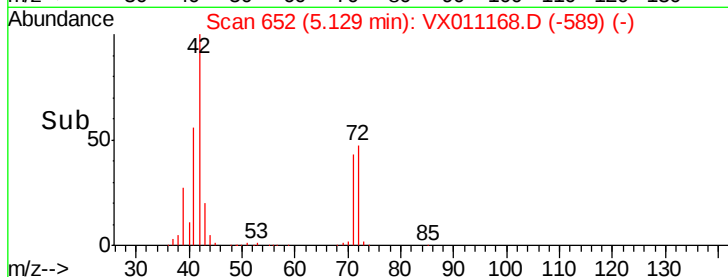
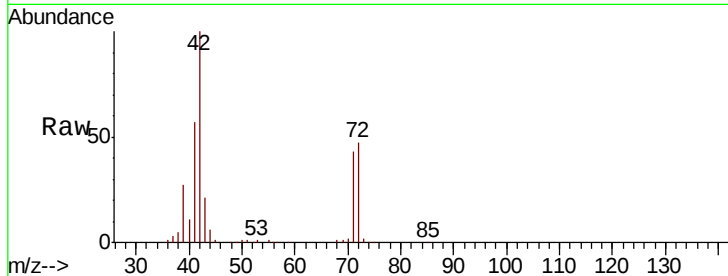
Ion Ratio Lower Upper

41 100

39 45.7 45.4 68.2

67 0.0 65.9 98.9#

52 0.2 26.2 39.2#



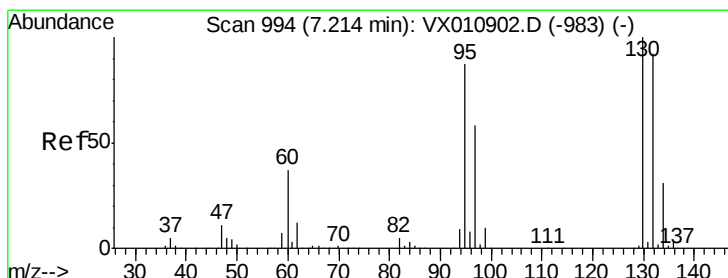
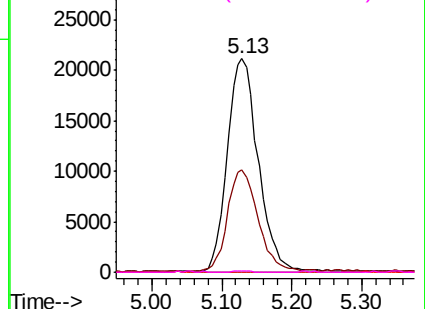
Abundance

Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#44

Trichloroethene

Concen: 3.288 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX011168.D

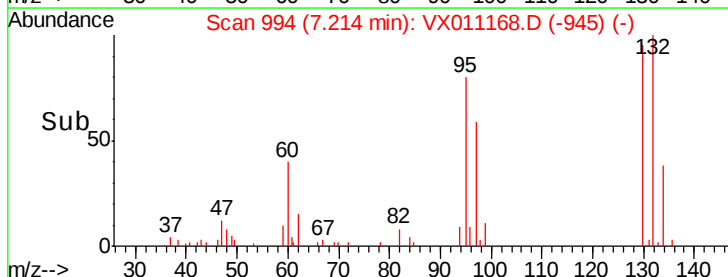
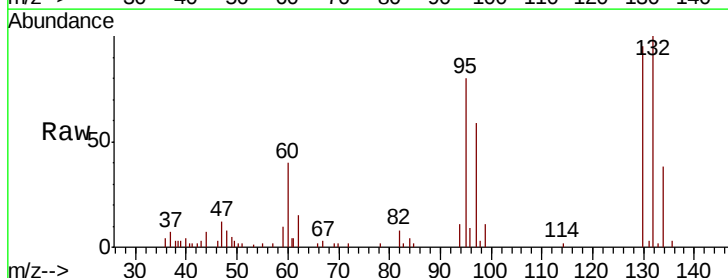
Acq: 30 Jul 2019 01:09

Tgt Ion: 130 Resp: 7179

Ion Ratio Lower Upper

130 100

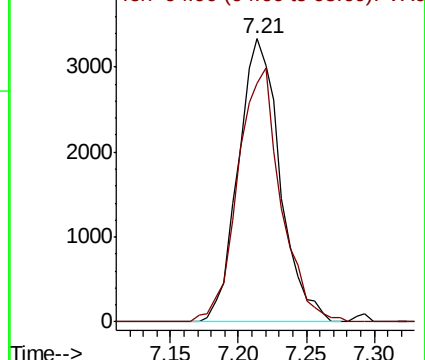
95 84.5 0.0 174.8

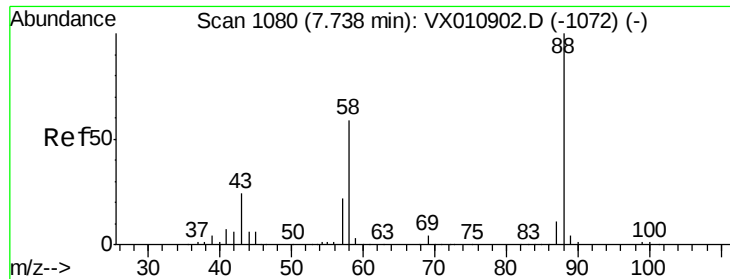


Abundance

Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

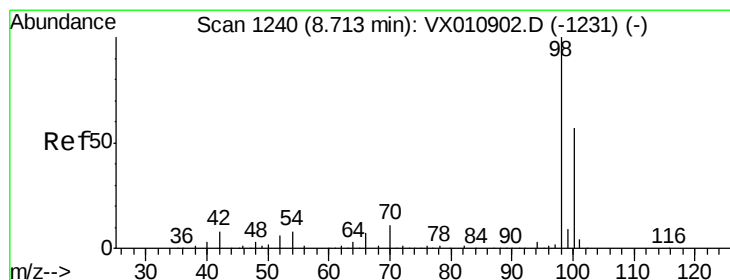
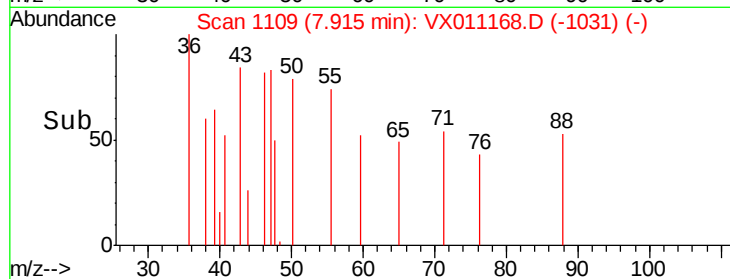
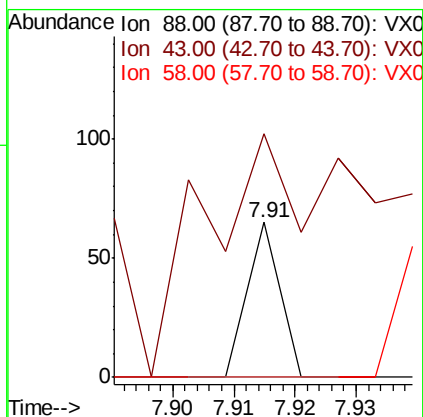
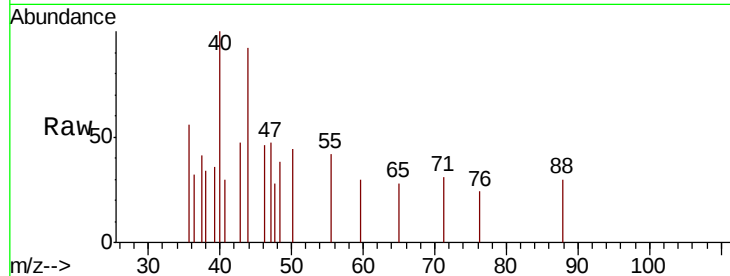




#49
1,4-Dioxane
Concen: 0.434 ug/l
RT: 7.91 min Scan# 1109
Delta R.T. 0.18 min
Lab File: VX011168.D
Acq: 30 Jul 2019 01:09

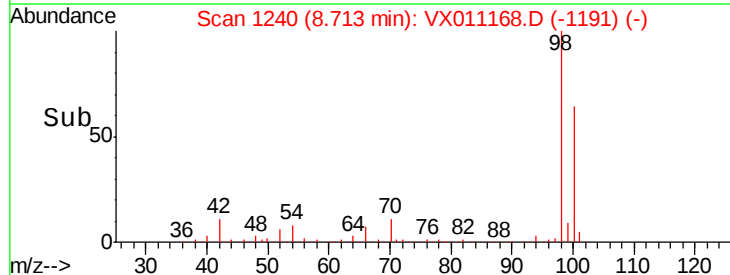
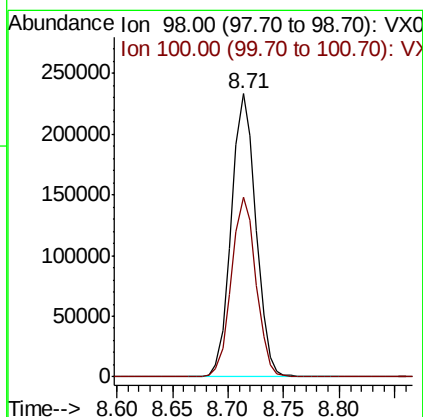
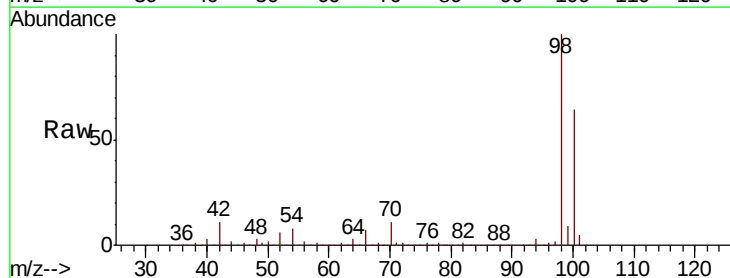
Instrument :
MSVOA_X
ClientSampled :
Z3-ER-2019-2

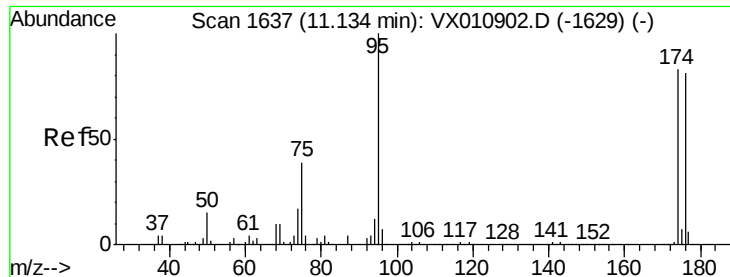
Tot Ion: 88 Resp: 24
Ion Ratio Lower Upper
88 100
43 454.2 22.9 34.3#
58 0.0 49.8 74.8#



#50
Toluene-d8
Concen: 51.193 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX011168.D
Acq: 30 Jul 2019 01:09

Tgt Ion: 98 Resp: 357230
Ion Ratio Lower Upper
98 100
100 63.6 50.6 75.8





#62

4-Bromofluorobenzene

Concen: 48.972 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011168.D

Acq: 30 Jul 2019 01:09

Instrument :

MSVOA_X

ClientSampled :

Z3-ER-2019-2

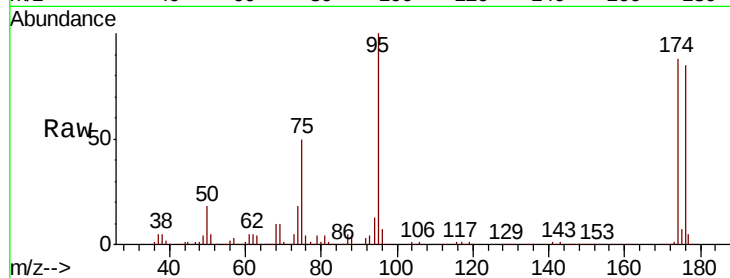
Tot Ion: 95 Resp: 125612

Ion Ratio Lower Upper

95 100

174 91.4 0.0 180.6

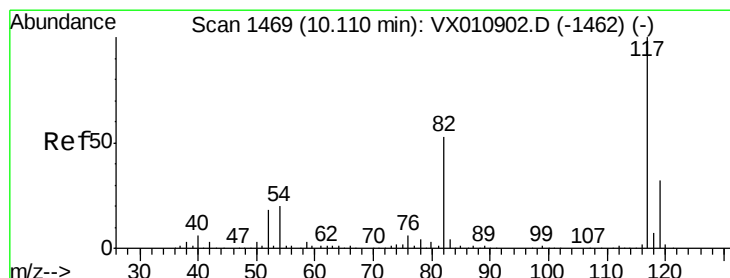
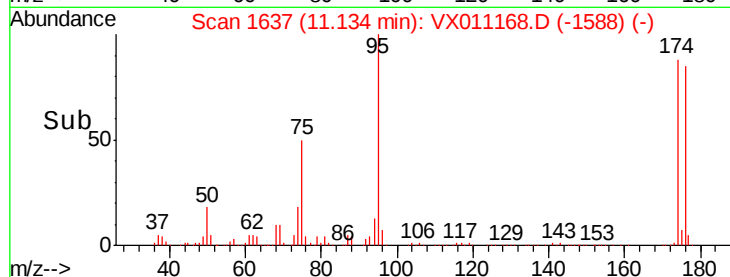
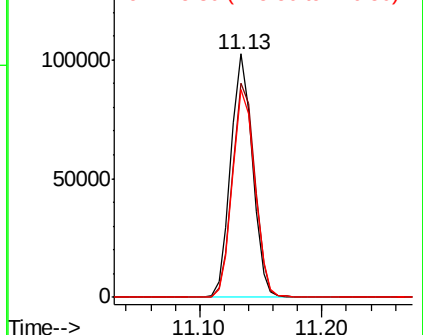
176 88.1 0.0 173.8



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



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX011168.D

Acq: 30 Jul 2019 01:09

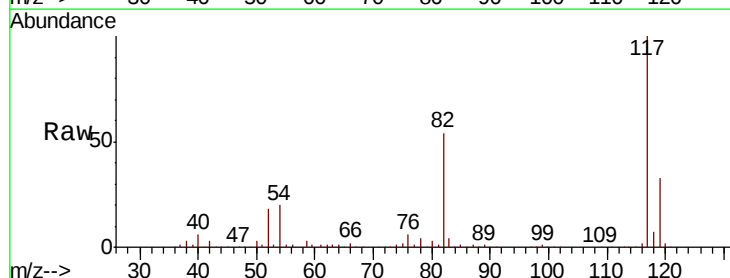
Tgt Ion: 117 Resp: 279933

Ion Ratio Lower Upper

117 100

82 54.0 42.6 63.8

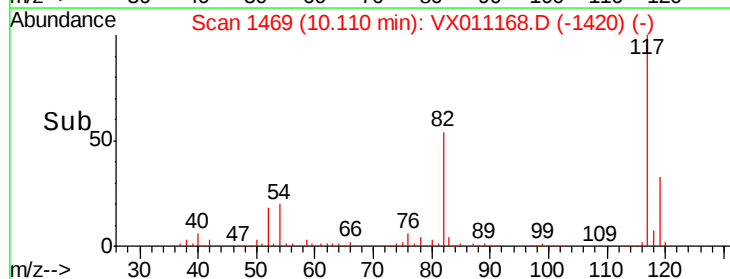
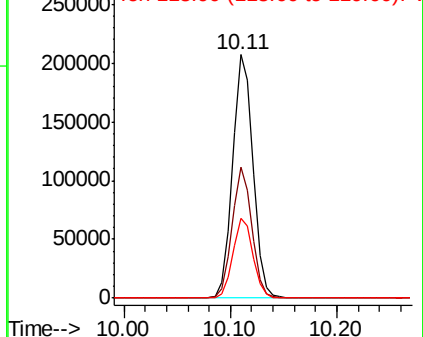
119 32.5 25.9 38.9

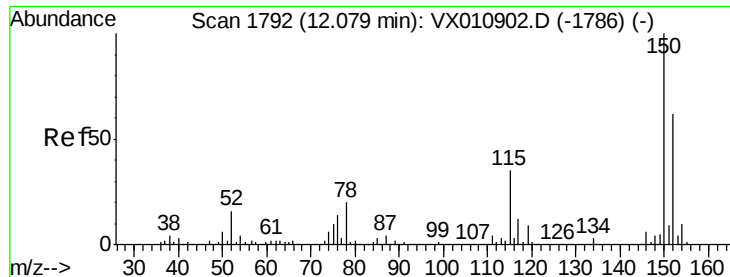


Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): 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: VX011168.D

Acq: 30 Jul 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

Z3-ER-2019-2

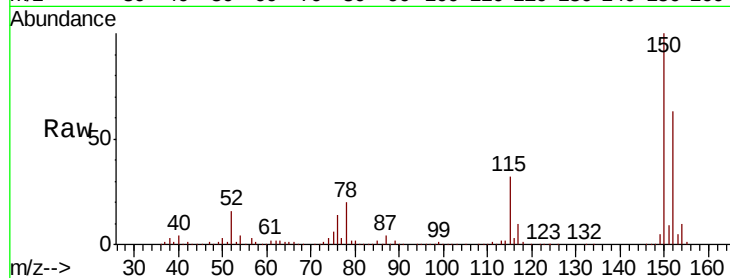
Tot Ion:152 Resp: 130900

Ion Ratio Lower Upper

152 100

115 55.4 39.7 119.1

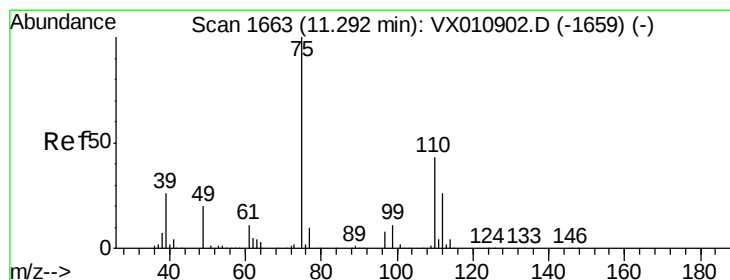
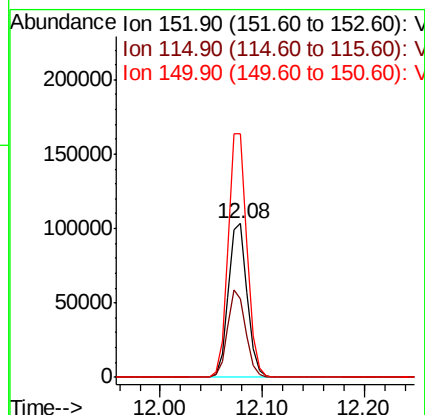
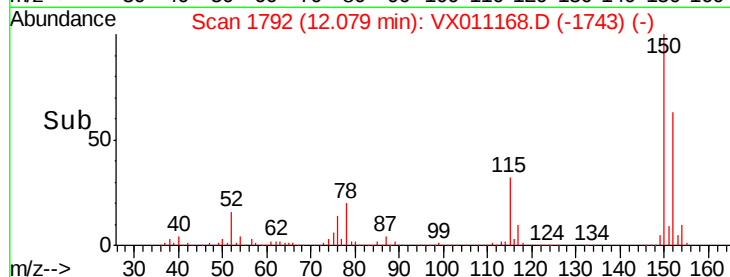
150 158.2 0.0 345.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 26.751 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX011168.D

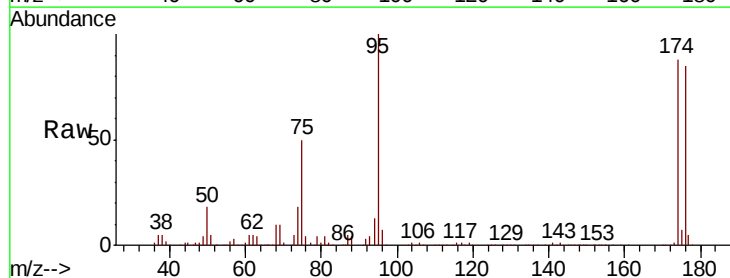
Acq: 30 Jul 2019 01:09

Tgt Ion: 75 Resp: 63189

Ion Ratio Lower Upper

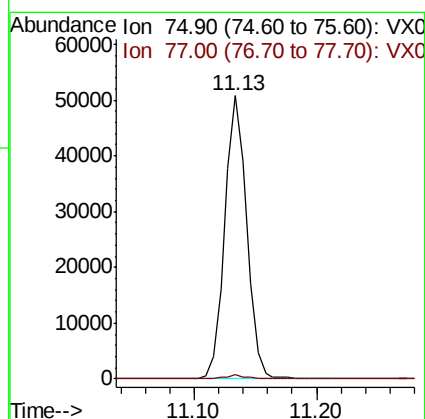
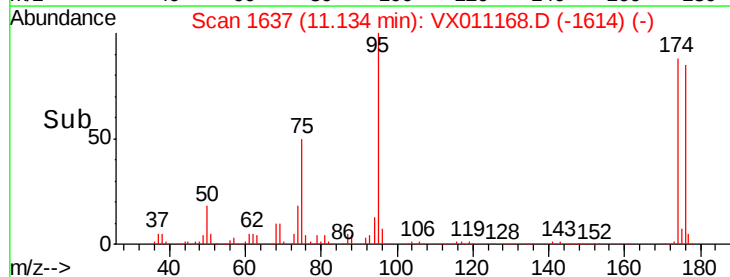
75 100

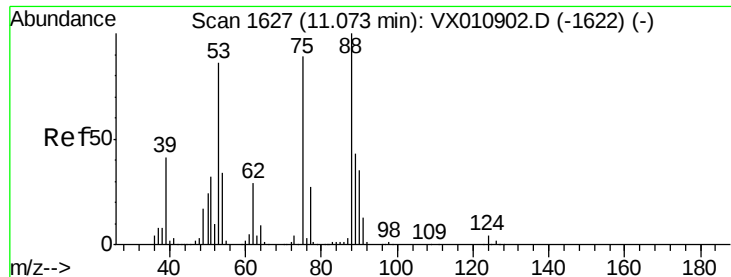
77 1.4 21.3 64.0#



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: 66.359 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX011168.D

Acq: 30 Jul 2019 01:09

Instrument :

MSVOA_X

ClientSampleId :

Z3-ER-2019-2

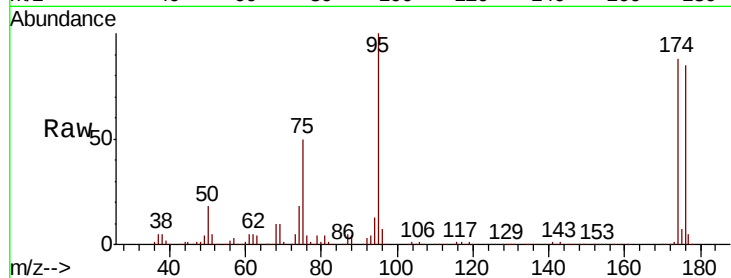
Tot Ion: 75 Resp: 63189

Ion Ratio Lower Upper

75 100

53 0.1 76.7 115.1#

89 0.0 38.5 57.7#



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

