

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072919\
 Data File : VX011149.D
 Acq On : 29 Jul 2019 16:35
 Operator : JC/SP
 Sample : K4019-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SU19-MSW0333

Quant Time: Jul 30 05:07:09 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	182760	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	288033	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	270627	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	123122	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	99355	51.10	ug/l	0.00
Spiked Amount			Recovery	=	102.20%	
35) Dibromofluoromethane	5.50	113	91102	49.83	ug/l	0.00
Spiked Amount			Recovery	=	99.66%	
50) Toluene-d8	8.71	98	350845	51.17	ug/l	0.00
Spiked Amount			Recovery	=	102.34%	
62) 4-Bromofluorobenzene	11.13	95	121031	48.02	ug/l	0.00
Spiked Amount			Recovery	=	96.04%	

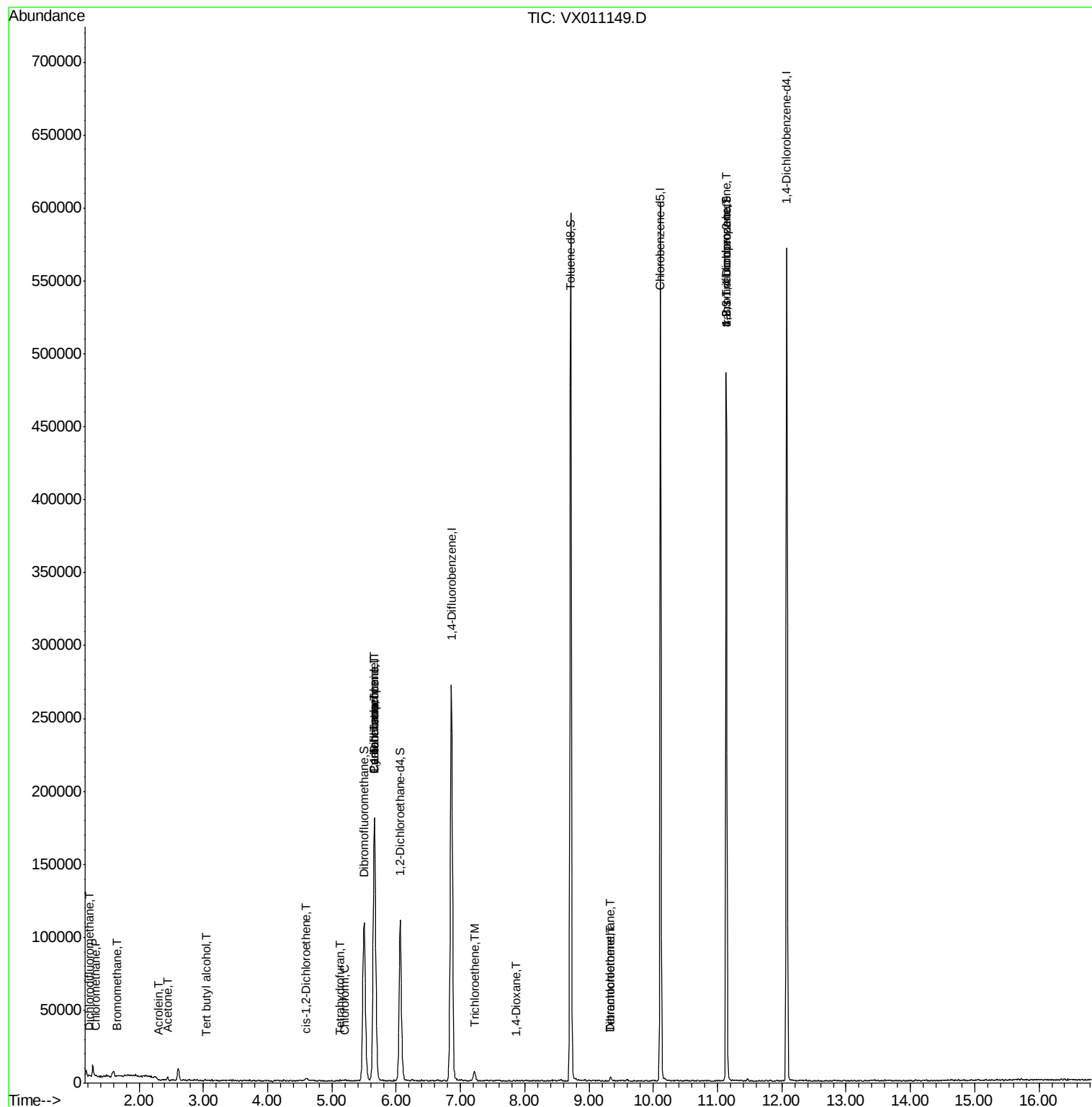
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.22	85	20	0.556	ug/l #	43
3) Chloromethane	1.33	50	598	0.356	ug/l	95
5) Bromomethane	1.65	94	456	0.472	ug/l #	64
11) Tert butyl alcohol	3.04	59	289	0.638	ug/l #	85
13) Acrolein	2.30	56	120	0.459	ug/l #	18
16) Acetone	2.44	43	2585	2.944	ug/l	92
27) cis-1,2-Dichloroethene	4.60	96	842	0.421	ug/l	89
29) Tetrahydrofuran	5.12	42	166	0.208	ug/l #	29
30) Chloroform	5.21	83	736	0.235	ug/l	87
31) Cyclohexane	5.67	56	3556	1.347	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	12517	5.291	ug/l #	49
38) Carbon Tetrachloride	5.66	117	16660	6.758	ug/l #	17
44) Trichloroethene	7.21	130	2519	1.174	ug/l	73
49) 1,4-Dioxane	7.87	88	40	0.737	ug/l #	45
60) Dibromochloromethane	9.34	129	588	2.775	ug/l #	11
64) Tetrachloroethene	9.34	164	531	0.249	ug/l #	75
76) 1,2,3-Trichloropropane	11.13	75	60772	27.353	ug/l #	35
81) trans-1,4-Dichloro-2-buten	11.13	75	60772	67.763	ug/l #	11

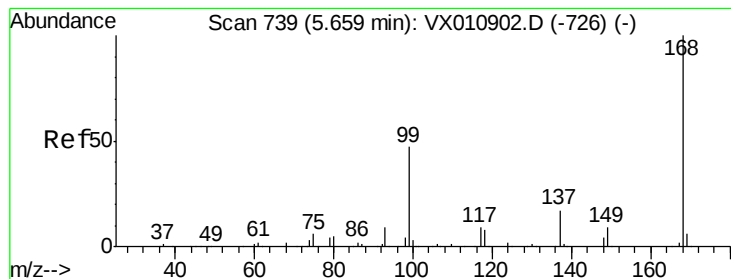
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.00 min

Lab File: VX011149.D

Acq: 29 Jul 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

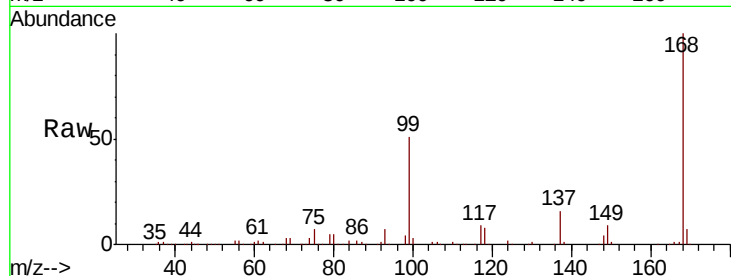
SU19-MSW0333

Tot Ion:168 Resp: 182760

Ion Ratio Lower Upper

168 100

99 50.7 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

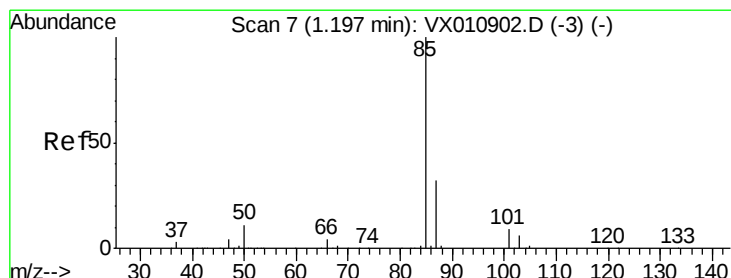
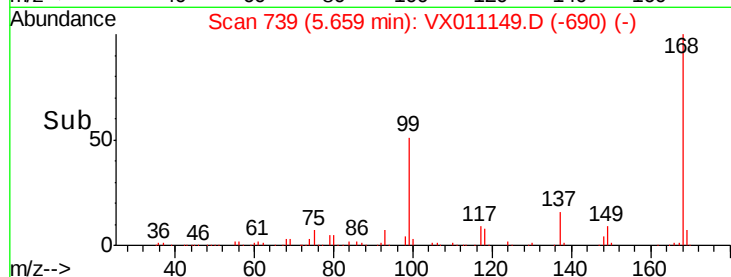
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#2

Dichlorodifluoromethane

Concen: 0.556 ug/l

RT: 1.22 min Scan# 11

Delta R.T. 0.02 min

Lab File: VX011149.D

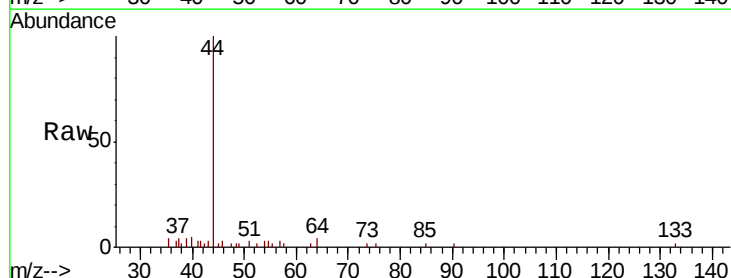
Acq: 29 Jul 2019 16:35

Tgt Ion: 85 Resp: 20

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

1.22

60

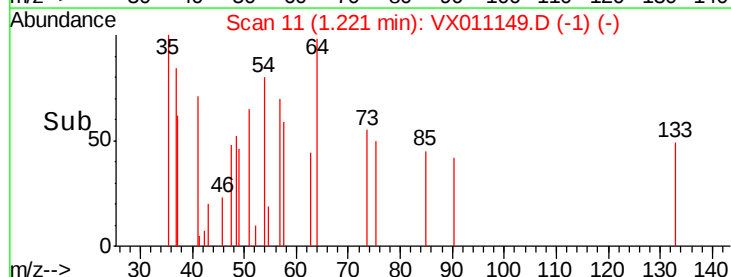
40

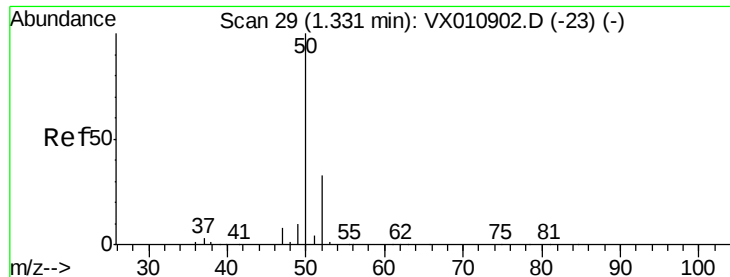
20

0

Time-->

1.20 1.21 1.22 1.23 1.24





#3

Chloromethane

Concen: 0.356 ug/l

RT: 1.33 min Scan# 29

Delta R.T. -0.00 min

Lab File: VX011149.D

Acq: 29 Jul 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

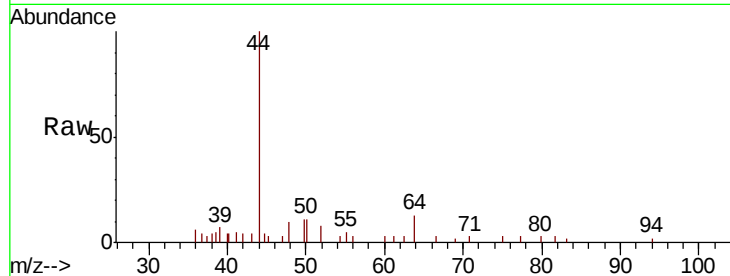
SU19-MSW0333

Tot Ion: 50 Resp: 598

Ion Ratio Lower Upper

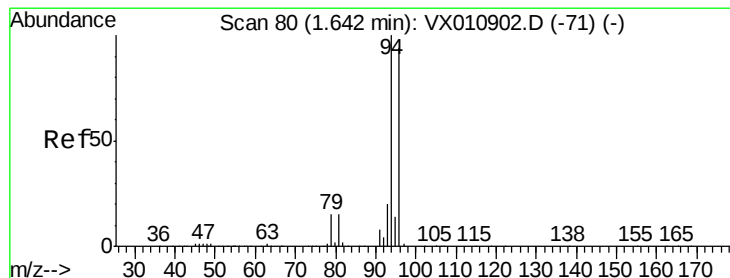
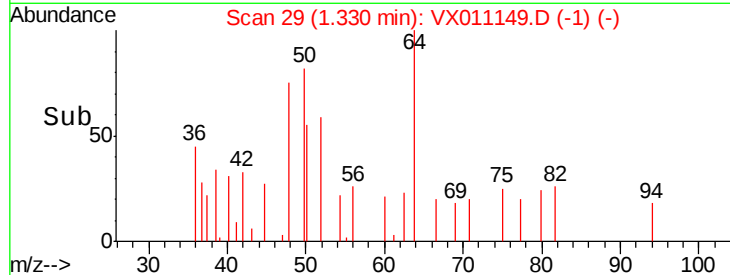
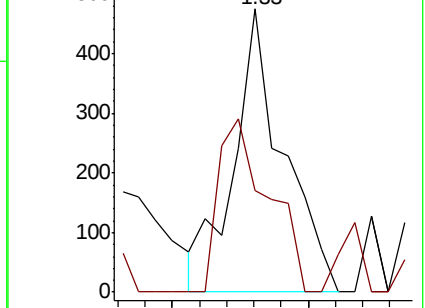
50 100

52 35.9 26.4 39.6



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#5

Bromomethane

Concen: 0.472 ug/l

RT: 1.65 min Scan# 82

Delta R.T. 0.01 min

Lab File: VX011149.D

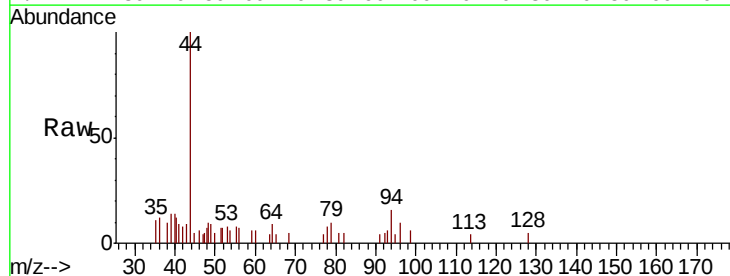
Acq: 29 Jul 2019 16:35

Tgt Ion: 94 Resp: 456

Ion Ratio Lower Upper

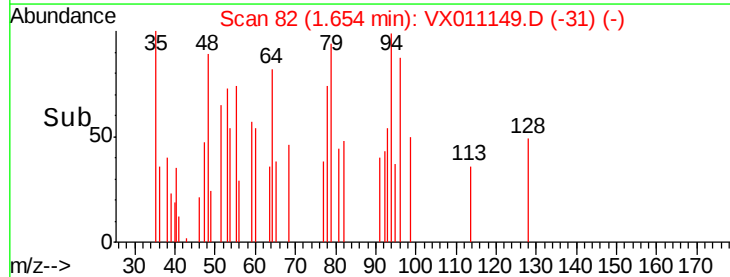
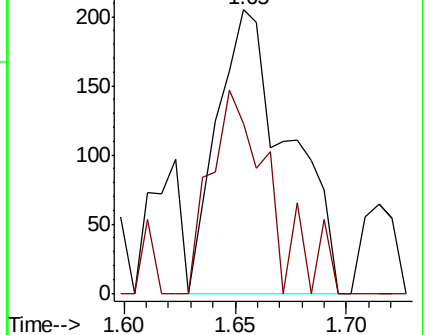
94 100

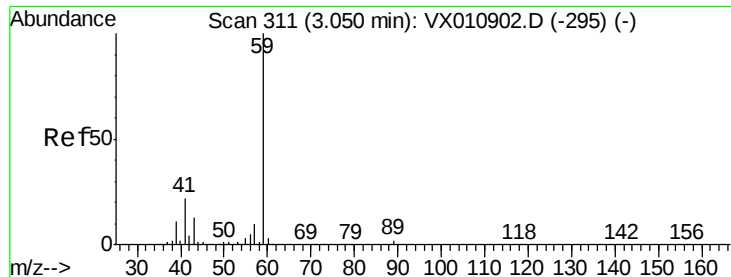
96 60.0 75.6 113.4#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#11

Tert butyl alcohol

Concen: 0.638 ug/l

RT: 3.04 min Scan# 310

Delta R.T. -0.01 min

Lab File: VX011149.D

Acq: 29 Jul 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

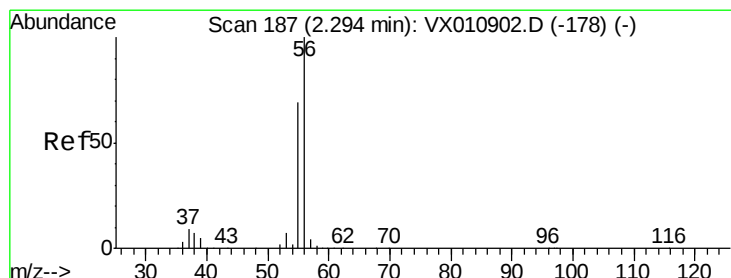
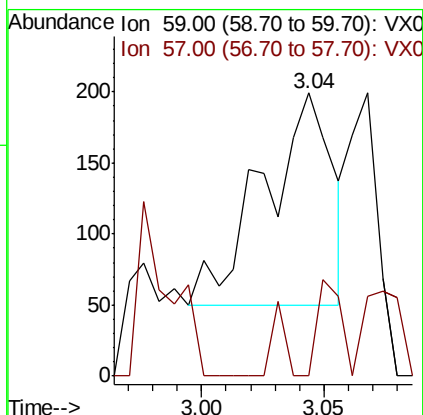
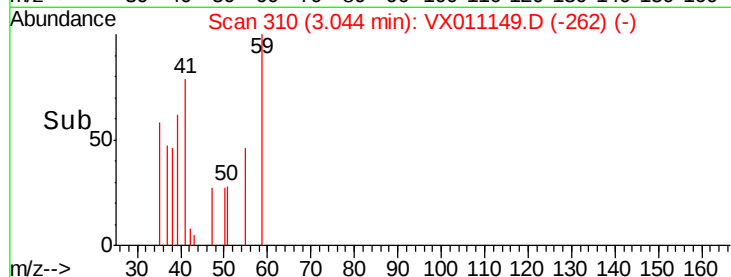
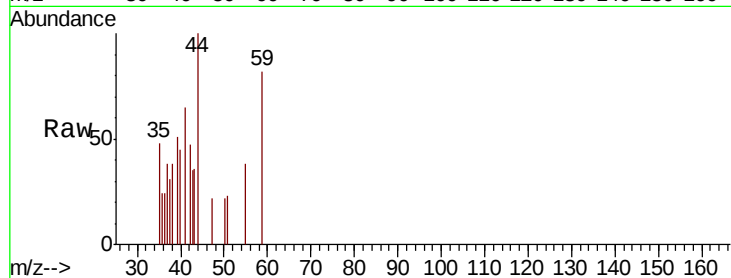
SU19-MSW0333

Tot Ion: 59 Resp: 289

Ion Ratio Lower Upper

59 100

57 15.6 7.9 11.9#



#13

Acrolein

Concen: 0.459 ug/l

RT: 2.30 min Scan# 188

Delta R.T. 0.01 min

Lab File: VX011149.D

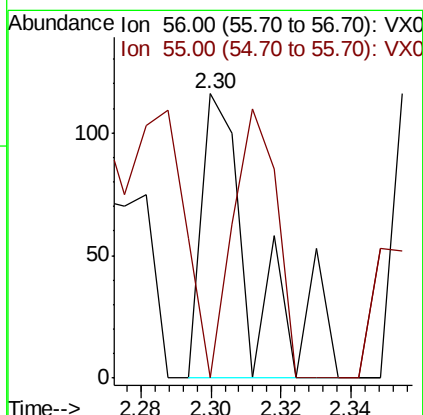
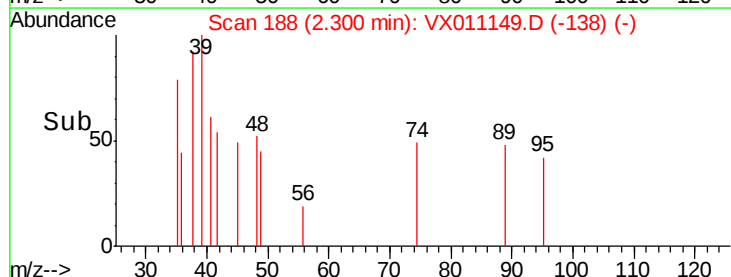
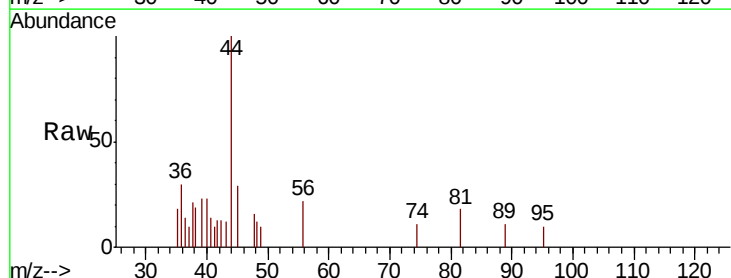
Acq: 29 Jul 2019 16:35

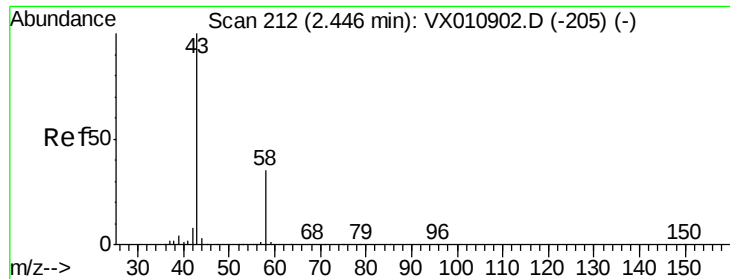
Tgt Ion: 56 Resp: 120

Ion Ratio Lower Upper

56 100

55 137.5 55.9 83.9#





#16

Acetone

Concen: 2.944 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX011149.D

Acq: 29 Jul 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

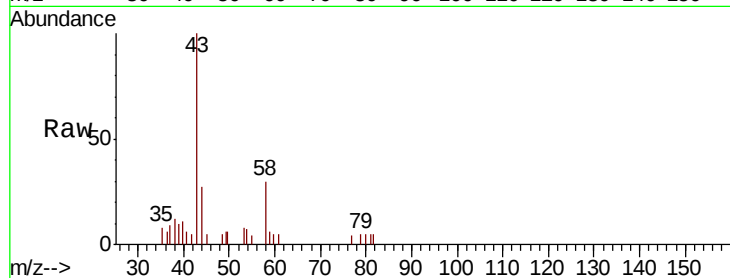
SU19-MSW0333

Tot Ion: 43 Resp: 2585

Ion Ratio Lower Upper

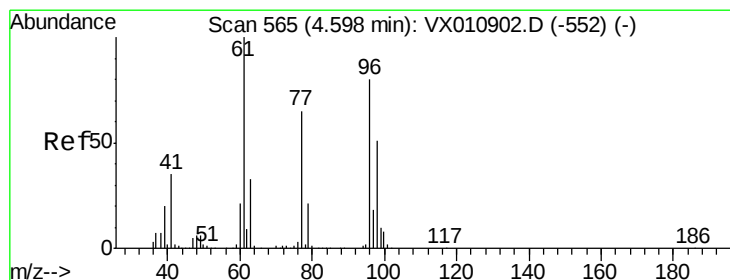
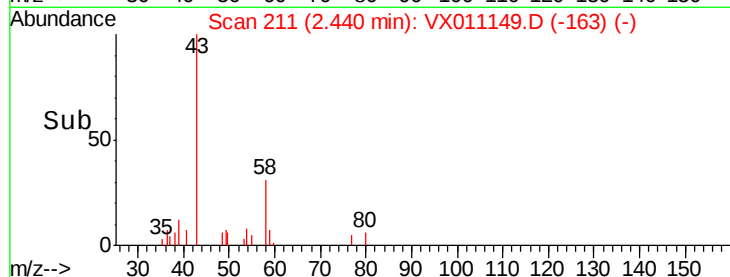
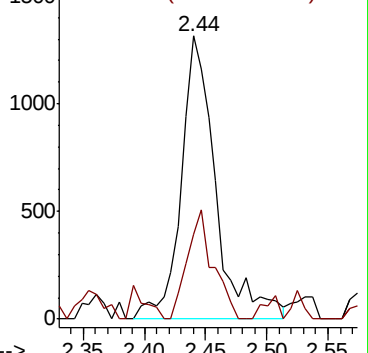
43 100

58 30.2 27.7 41.5



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#27

cis-1,2-Dichloroethene

Concen: 0.421 ug/l

RT: 4.60 min Scan# 565

Delta R.T. -0.00 min

Lab File: VX011149.D

Acq: 29 Jul 2019 16:35

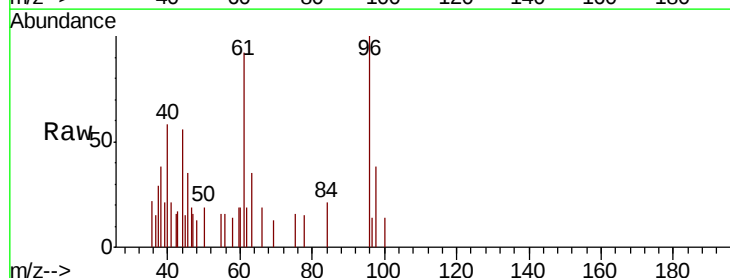
Tgt Ion: 96 Resp: 842

Ion Ratio Lower Upper

96 100

61 150.8 0.0 269.0

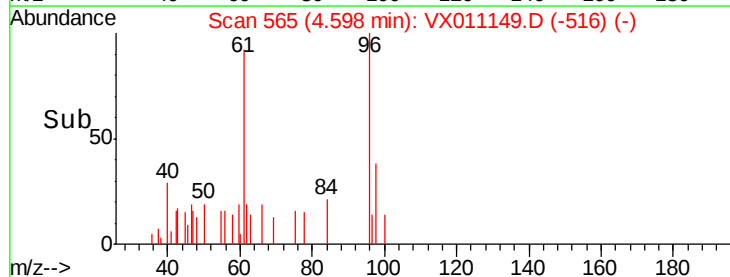
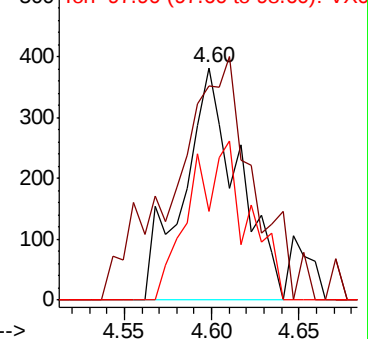
98 70.5 0.0 131.4

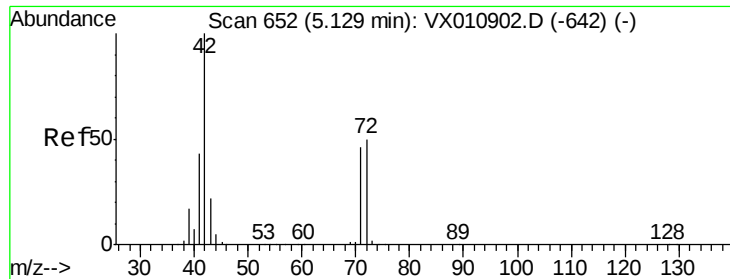


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0





#29

Tetrahydrofuran

Concen: 0.208 ug/l

RT: 5.12 min Scan# 651

Delta R.T. -0.01 min

Lab File: VX011149.D

Acq: 29 Jul 2019 16:35

Instrument :

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ClientSampleId :

SU19-MSW0333

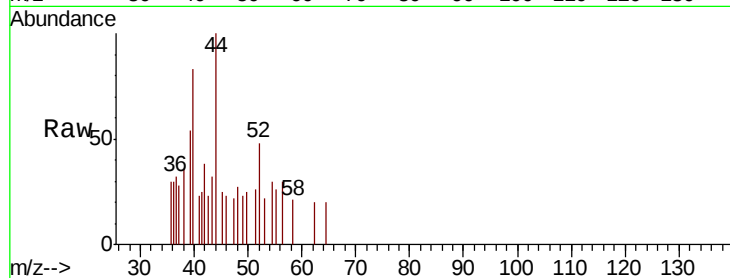
Tot Ion: 42 Resp: 166

Ion Ratio Lower Upper

42 100

72 0.0 39.8 59.8#

71 0.0 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

5.12

150

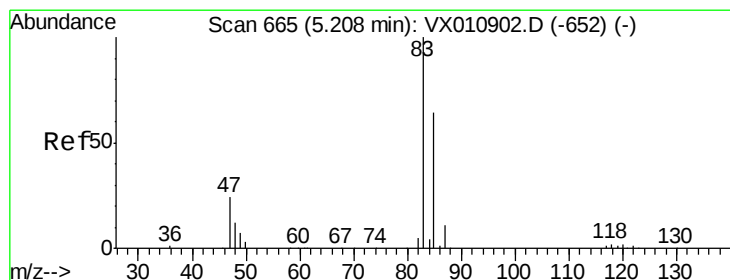
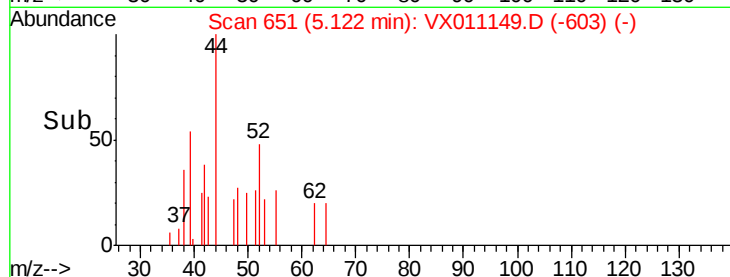
100

50

0

5.08 5.10 5.12 5.14

Time-->



#30

Chloroform

Concen: 0.235 ug/l

RT: 5.21 min Scan# 665

Delta R.T. -0.00 min

Lab File: VX011149.D

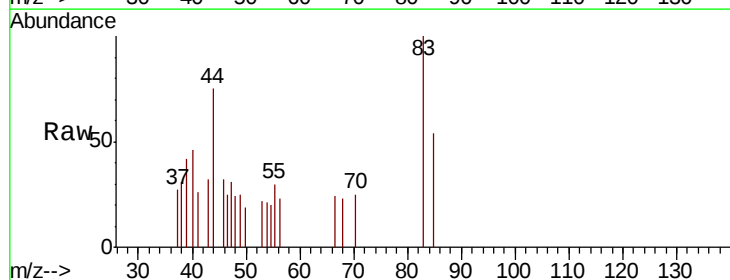
Acq: 29 Jul 2019 16:35

Tgt Ion: 83 Resp: 736

Ion Ratio Lower Upper

83 100

85 54.3 51.4 77.0



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

5.21

300

250

200

150

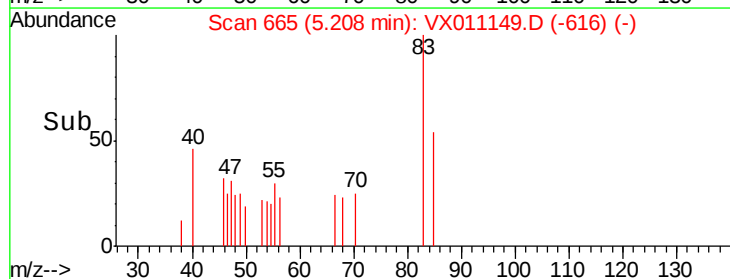
100

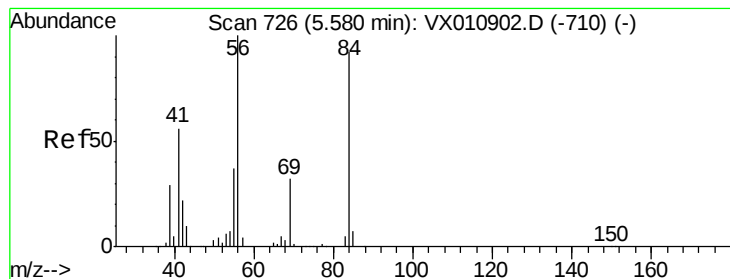
50

0

5.15 5.20 5.25 5.30

Time-->





#31

Cyclohexane

Concen: 1.347 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.09 min

Lab File: VX011149.D

Acq: 29 Jul 2019 16:35

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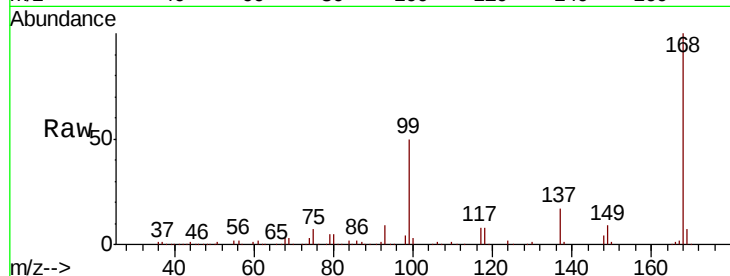
Tot Ion: 56 Resp: 3556

Ion Ratio Lower Upper

56 100

69 162.0 25.8 38.8#

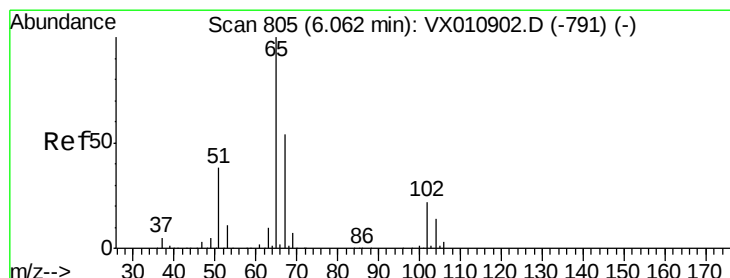
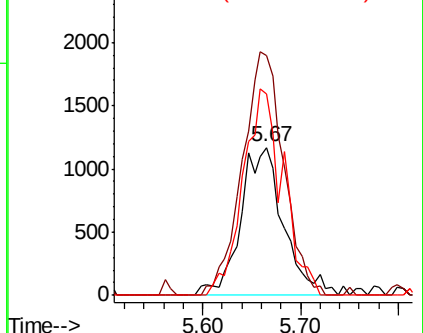
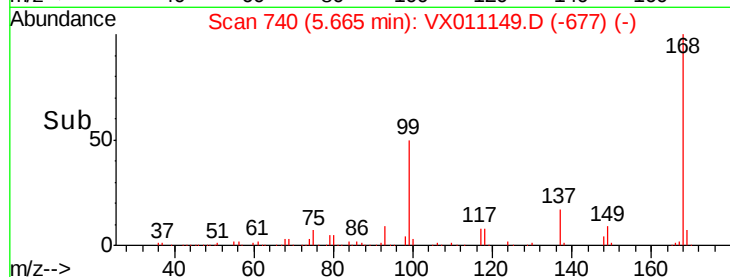
84 145.0 73.8 110.6#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0



#33

1,2-Dichloroethane-d4

Concen: 51.101 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX011149.D

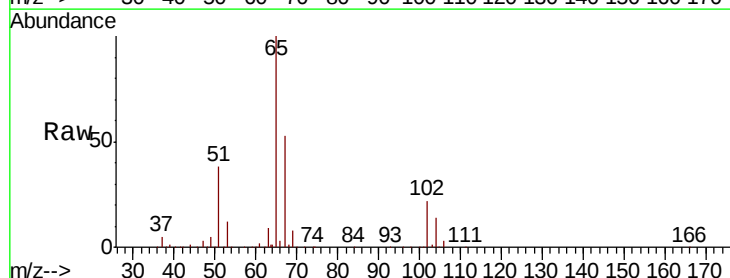
Acq: 29 Jul 2019 16:35

Tgt Ion: 65 Resp: 99355

Ion Ratio Lower Upper

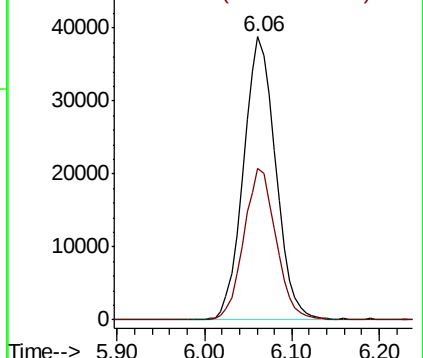
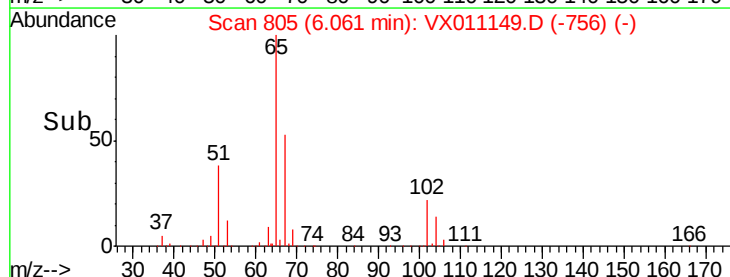
65 100

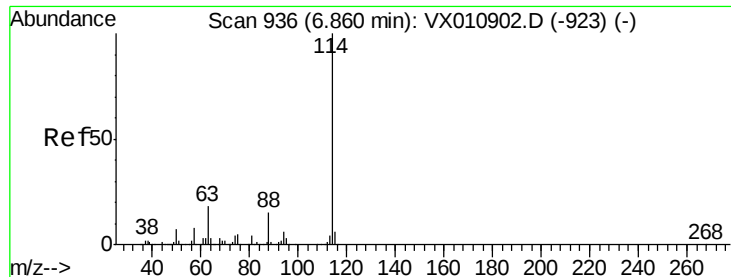
67 53.5 0.0 107.8



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: VX011149.D

Acq: 29 Jul 2019 16:35

Instrument :

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ClientSampleId :

SU19-MSW0333

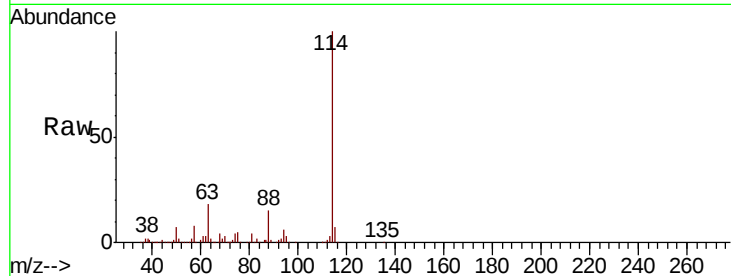
Tot Ion:114 Resp: 288033

Ion Ratio Lower Upper

114 100

63 17.7 0.0 35.6

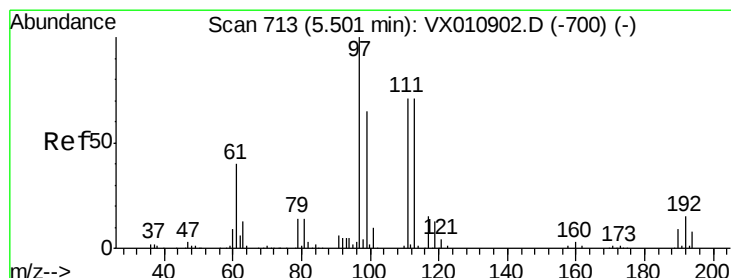
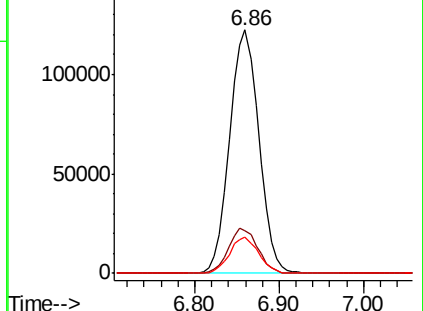
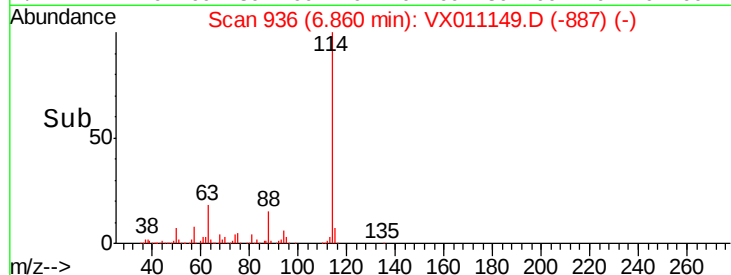
88 15.0 0.0 29.8



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: 49.831 ug/l

RT: 5.50 min Scan# 713

Delta R.T. -0.00 min

Lab File: VX011149.D

Acq: 29 Jul 2019 16:35

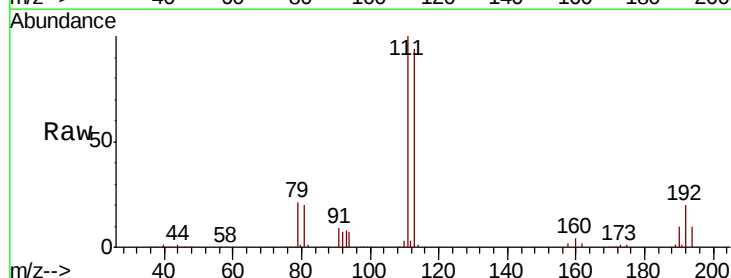
Tgt Ion:113 Resp: 91102

Ion Ratio Lower Upper

113 100

111 104.4 82.3 123.5

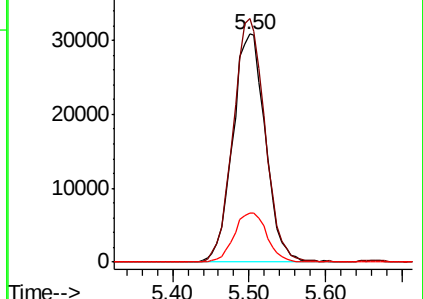
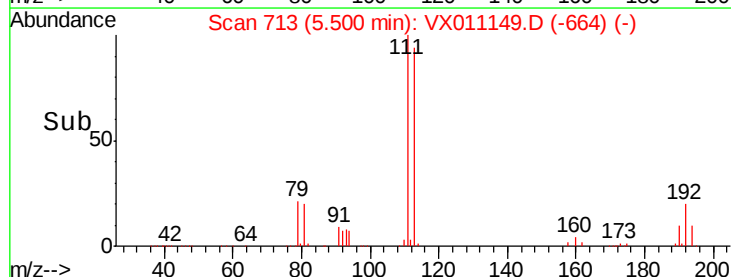
192 21.6 17.4 26.2

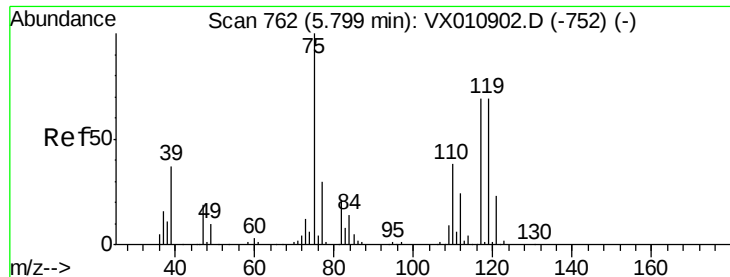


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 5.291 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX011149.D

Acq: 29 Jul 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0333

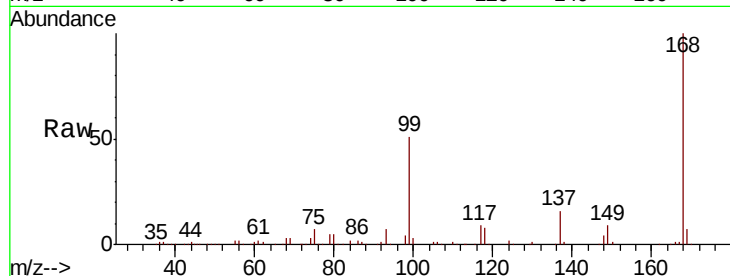
Tot Ion: 75 Resp: 12517

Ion Ratio Lower Upper

75 100

110 11.3 19.9 59.7#

77 0.2 25.0 37.4#



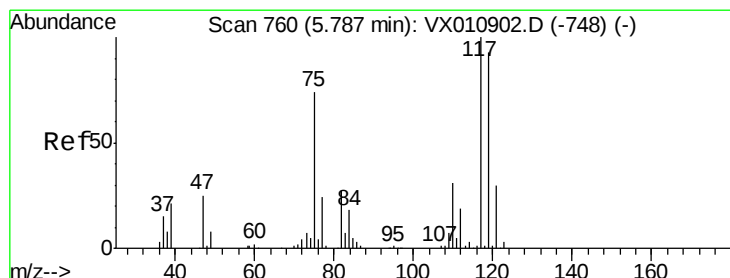
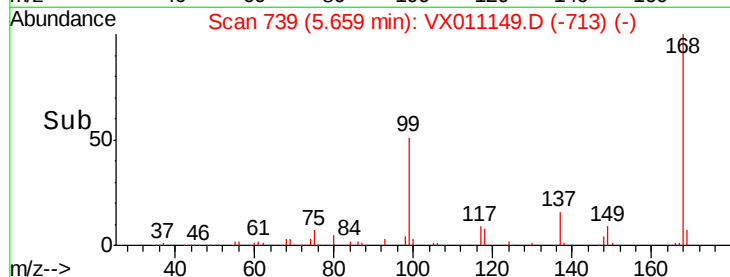
Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0

5.66

Time-->



#38

Carbon Tetrachloride

Concen: 6.758 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.13 min

Lab File: VX011149.D

Acq: 29 Jul 2019 16:35

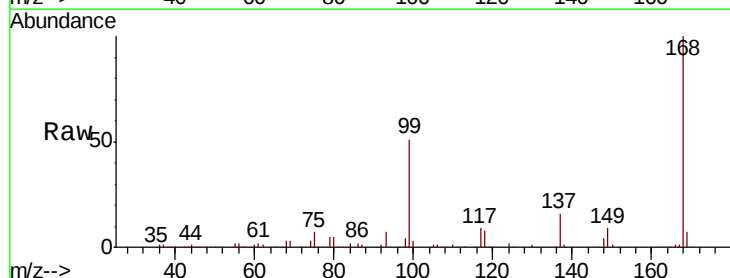
Tgt Ion: 117 Resp: 16660

Ion Ratio Lower Upper

117 100

119 5.2 74.2 111.2#

121 0.0 24.2 36.2#



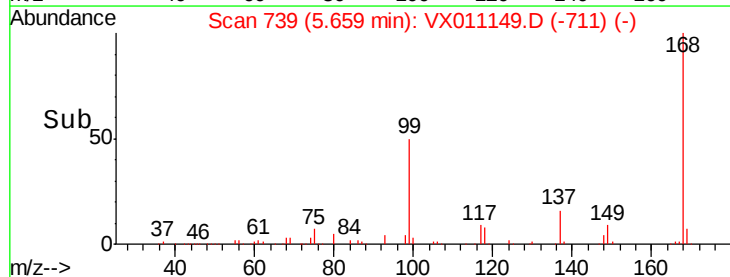
Abundance Ion 116.80 (116.50 to 117.50): V

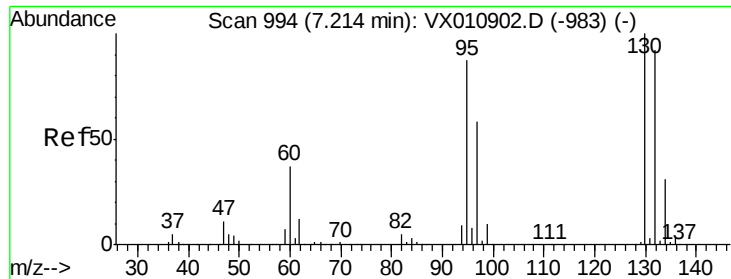
Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V

5.66

Time-->





#44

Trichloroethene

Concen: 1.174 ug/l

RT: 7.21 min Scan# 994

Delta R.T. -0.00 min

Lab File: VX011149.D

Acq: 29 Jul 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

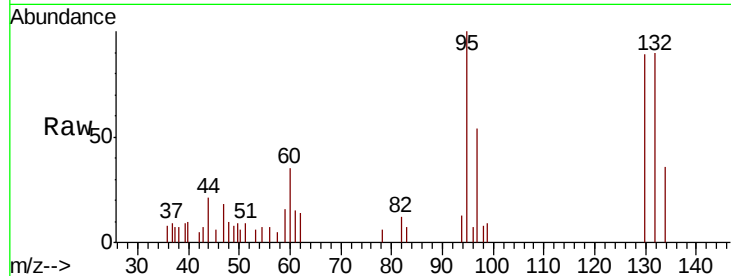
SU19-MSW0333

Tot Ion:130 Resp: 2519

Ion Ratio Lower Upper

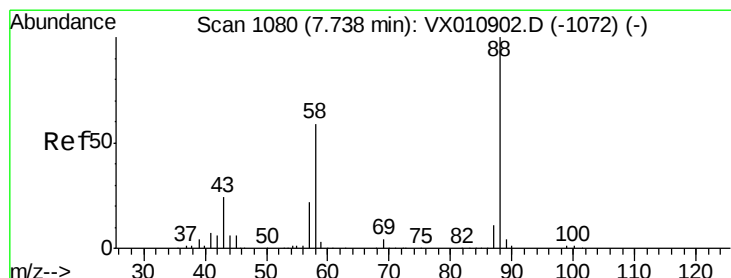
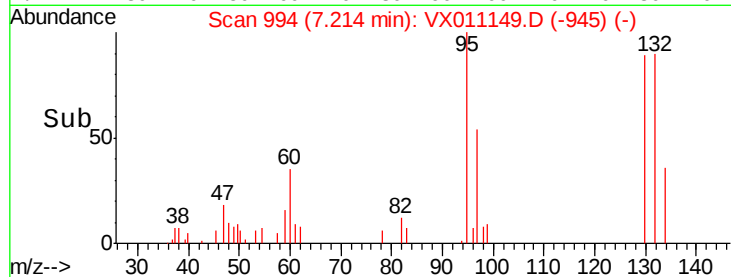
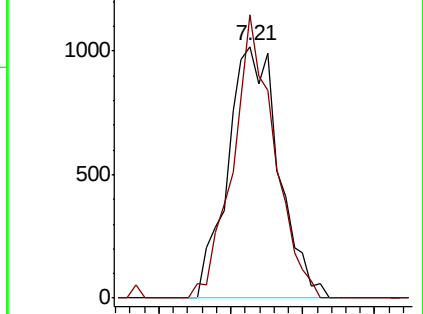
130 100

95 112.4 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: 0.737 ug/l

RT: 7.87 min Scan# 1102

Delta R.T. 0.13 min

Lab File: VX011149.D

Acq: 29 Jul 2019 16:35

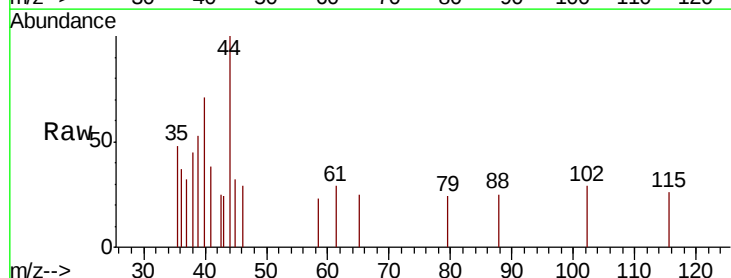
Tgt Ion: 88 Resp: 40

Ion Ratio Lower Upper

88 100

43 100.0 22.9 34.3#

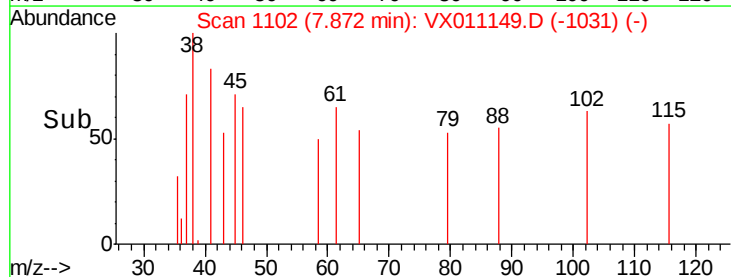
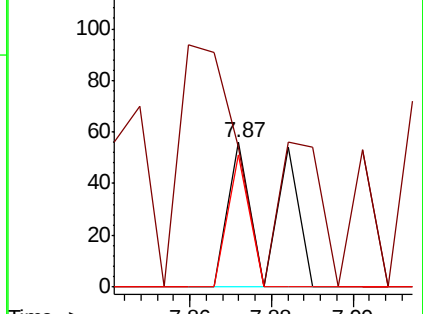
58 47.5 49.8 74.8#

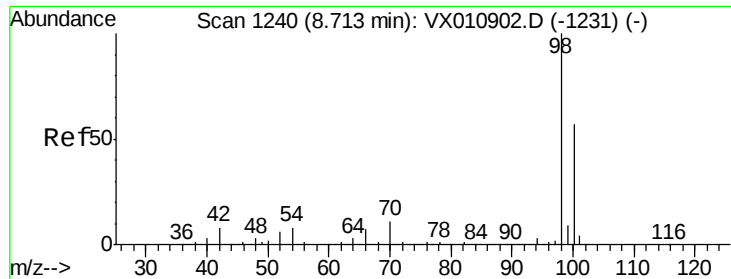


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.166 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX011149.D

Acq: 29 Jul 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

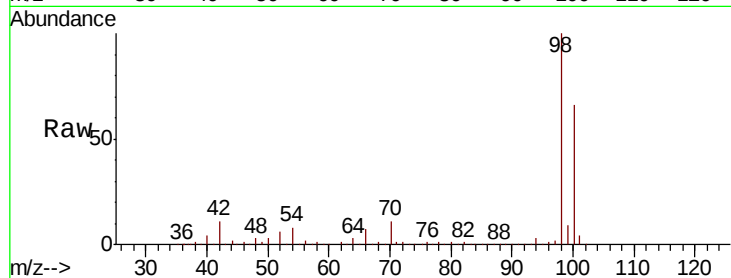
SU19-MSW0333

Tot Ion: 98 Resp: 350845

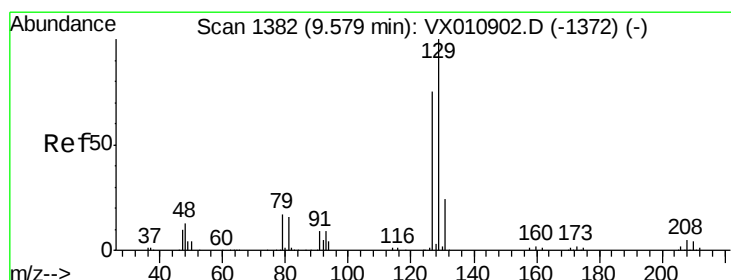
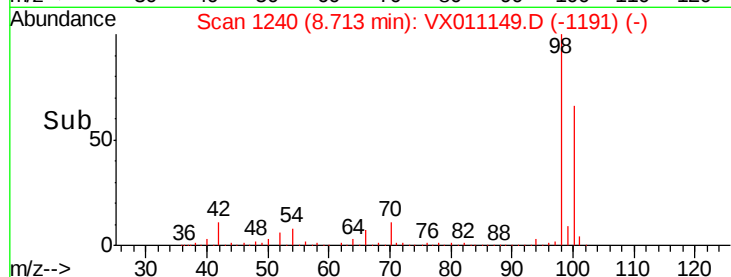
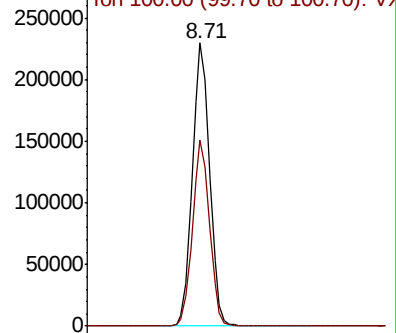
Ion Ratio Lower Upper

98 100

100 64.7 50.6 75.8



Abundance Ion 98.00 (97.70 to 98.70): VX011149.D (-1191) (-)



#60

Dibromochloromethane

Concen: 2.775 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.24 min

Lab File: VX011149.D

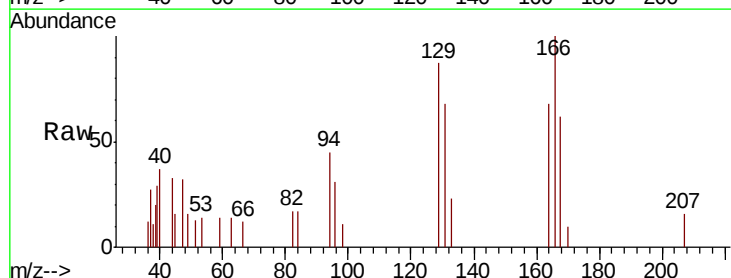
Acq: 29 Jul 2019 16:35

Tgt Ion: 129 Resp: 588

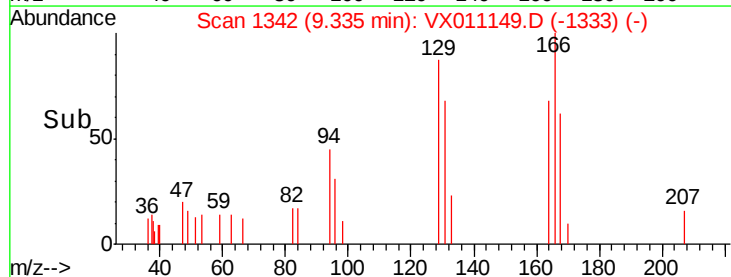
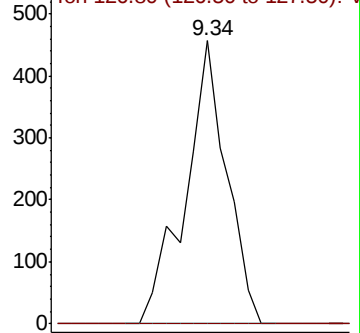
Ion Ratio Lower Upper

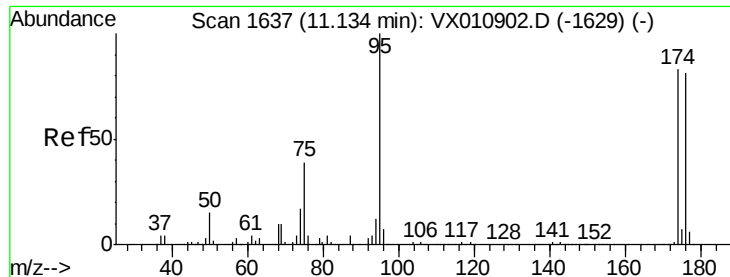
129 100

127 0.0 38.6 115.8#



Abundance Ion 128.80 (128.50 to 129.50): VX011149.D (-1333) (-)





#62

4-Bromofluorobenzene

Concen: 48.020 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX011149.D

Acq: 29 Jul 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0333

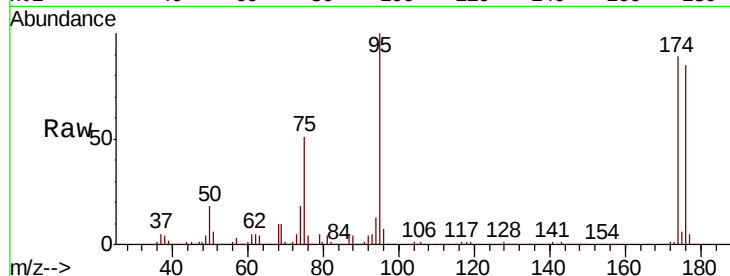
Tot Ion: 95 Resp: 121031

Ion Ratio Lower Upper

95 100

174 91.9 0.0 180.6

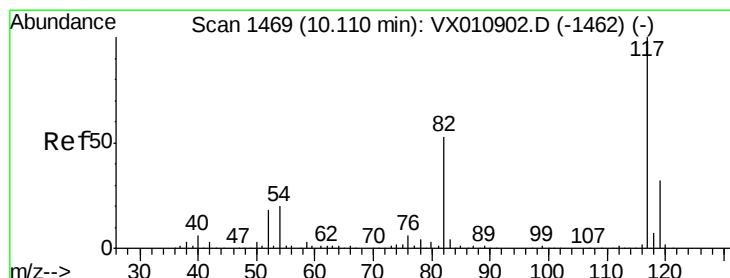
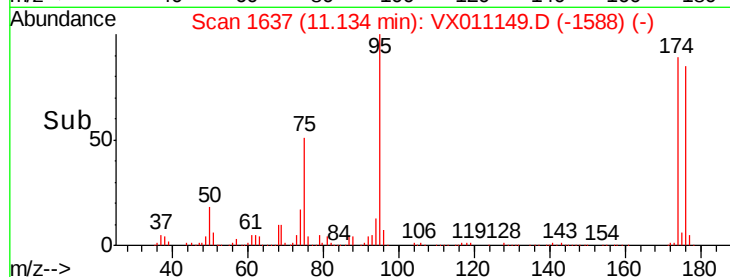
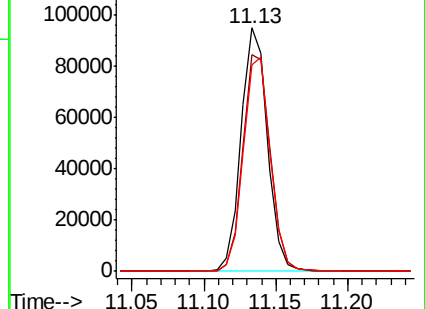
176 89.6 0.0 173.8



Abundance Ion 94.90 (94.60 to 95.60): VX011149.D (-1588) (-)

Ion 173.80 (173.50 to 174.50): VX011149.D (-1588) (-)

Ion 175.80 (175.50 to 176.50): VX011149.D (-1588) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. -0.00 min

Lab File: VX011149.D

Acq: 29 Jul 2019 16:35

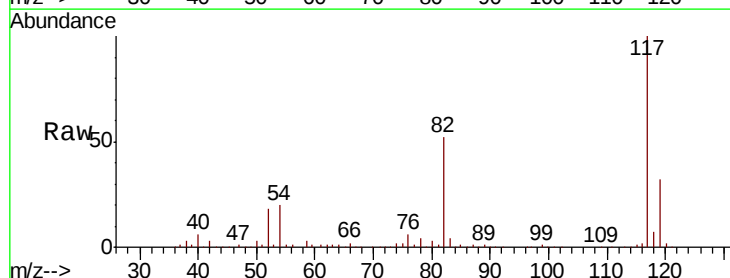
Tgt Ion: 117 Resp: 270627

Ion Ratio Lower Upper

117 100

82 52.4 42.6 63.8

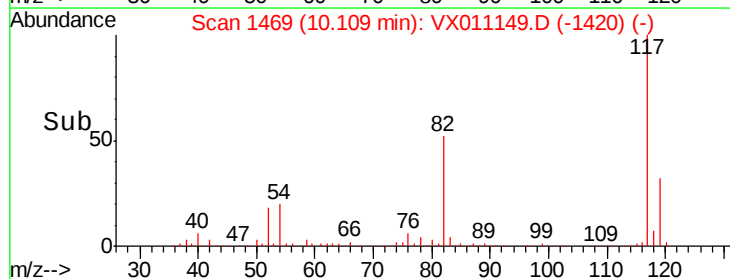
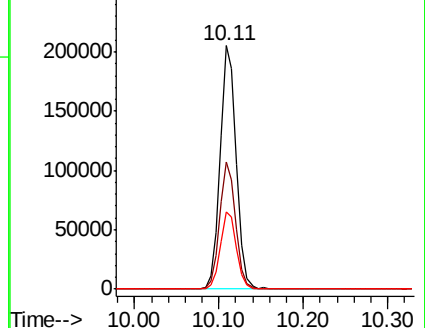
119 31.6 25.9 38.9

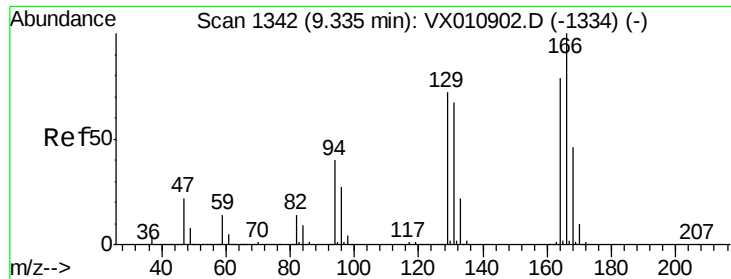


Abundance Ion 116.90 (116.60 to 117.60): VX011149.D (-1420) (-)

Ion 82.00 (81.70 to 82.70): VX011149.D (-1420) (-)

Ion 118.90 (118.60 to 119.60): VX011149.D (-1420) (-)





#64

Tetrachloroethene

Concen: 0.249 ug/l

RT: 9.34 min Scan# 1342

Delta R.T. -0.00 min

Lab File: VX011149.D

Acq: 29 Jul 2019 16:35

Instrument :

MSVOA_X

ClientSampleId :

SU19-MSW0333

Tot Ion:164 Resp: 531

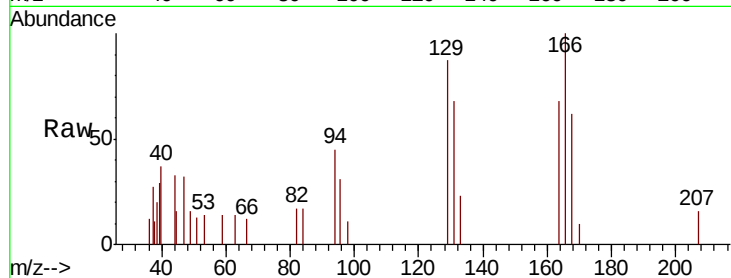
Ion Ratio Lower Upper

164 100

166 147.9 100.8 151.2

129 128.0 72.6 109.0#

131 100.3 67.7 101.5



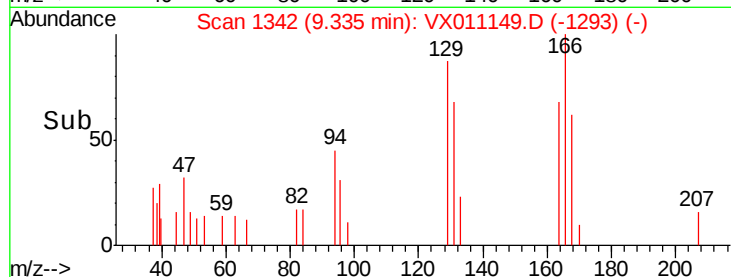
Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

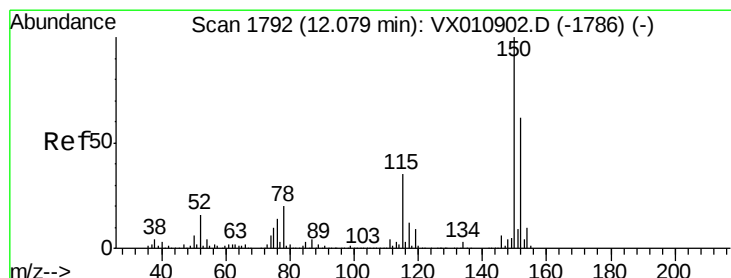
Ion 130.80 (130.50 to 131.50): V

Time-->



Abundance

Time-->



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX011149.D

Acq: 29 Jul 2019 16:35

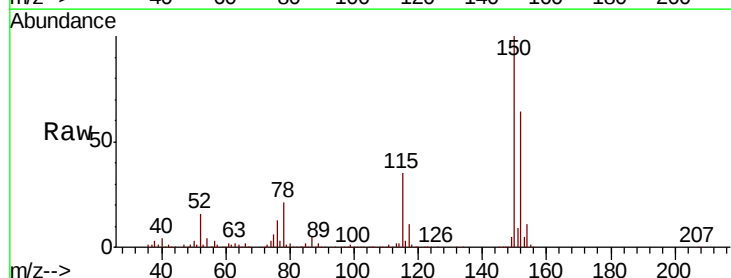
Tgt Ion:152 Resp: 123122

Ion Ratio Lower Upper

152 100

115 55.8 39.7 119.1

150 157.7 0.0 345.6

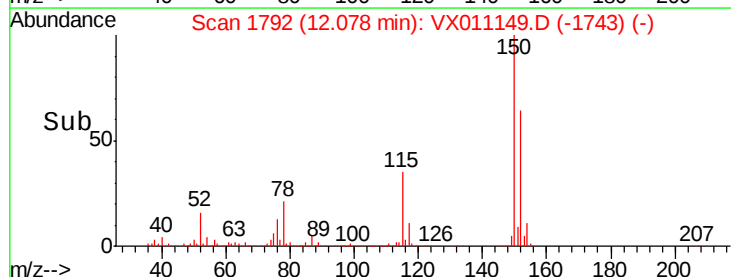


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

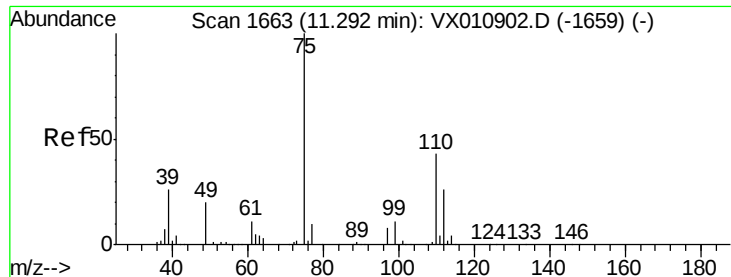
Ion 149.90 (149.60 to 150.60): V

Time-->



Abundance

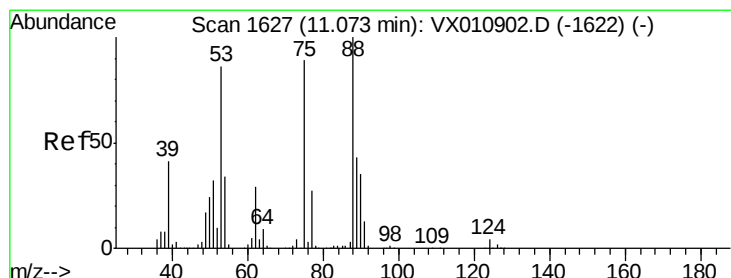
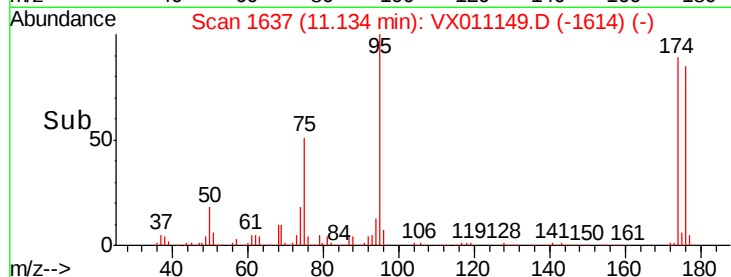
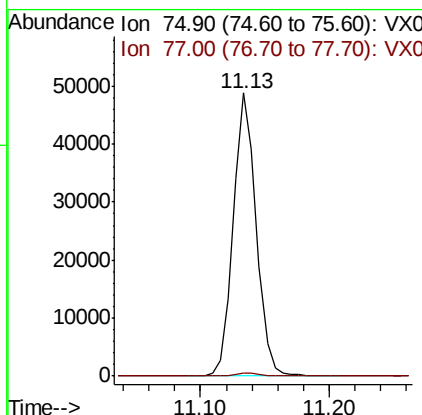
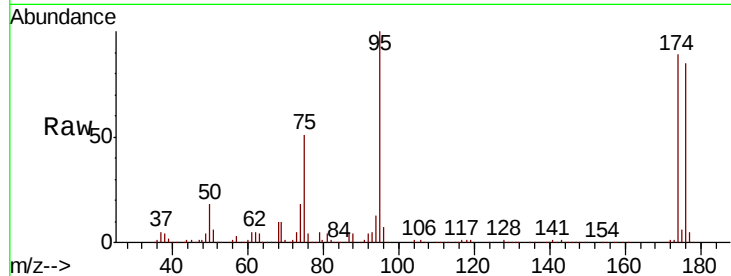
Time-->



#76
 1,2,3-Trichloropropane
 Concen: 27.353 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX011149.D
 Acq: 29 Jul 2019 16:35

Instrument :
 MSVOA_X
 ClientSampleId :
 SU19-MSW0333

Tot Ion: 75 Resp: 60772
 Ion Ratio Lower Upper
 75 100
 77 1.2 21.3 64.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 67.763 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. 0.06 min
 Lab File: VX011149.D
 Acq: 29 Jul 2019 16:35

Tgt Ion: 75 Resp: 60772
 Ion Ratio Lower Upper
 75 100
 53 0.1 76.7 115.1#
 89 0.0 38.5 57.7#

