

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX121619\
 Data File : VX014047.D
 Acq On : 16 Dec 2019 19:53
 Operator : JC/SP
 Sample : K6251-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP04-20191206

Quant Time: Dec 17 03:33:07 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
 Quant Title : SW846 8260
 QLast Update : Tue Dec 17 03:01:07 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	563390	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	868927	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	763666	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	323166	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	317107	49.66	ug/l	0.00
Spiked Amount			Recovery	=	99.32%	
35) Dibromofluoromethane	5.49	113	260151	49.25	ug/l	0.00
Spiked Amount			Recovery	=	98.50%	
50) Toluene-d8	8.71	98	1021588	49.68	ug/l	0.00
Spiked Amount			Recovery	=	99.36%	
62) 4-Bromofluorobenzene	11.14	95	334530	44.50	ug/l	0.00
Spiked Amount			Recovery	=	89.00%	

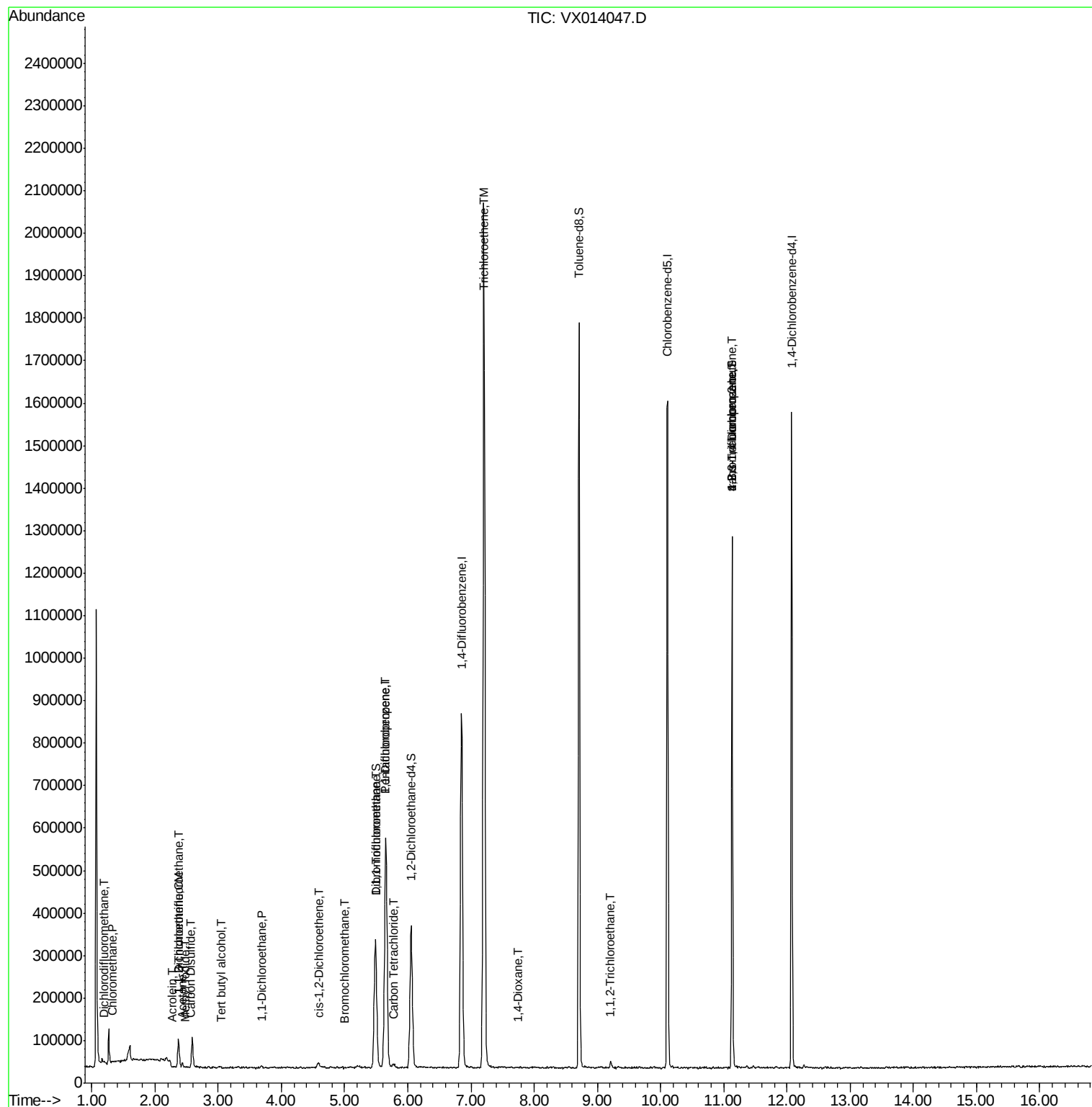
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.19	85	1777	0.353	ug/l #	64
3) Chloromethane	1.32	50	1421	0.210	ug/l #	75
9) 1,1,2-Trichlorotrifluoroet	2.37	101	17222	3.234	ug/l	100
10) Methyl Iodide	2.48	142	389	2.673	ug/l #	1
11) Tert butyl alcohol	3.06	59	354	0.257	ug/l #	72
12) 1,1-Dichloroethene	2.36	96	12840	2.369	ug/l	96
13) Acrolein	2.28	56	221	0.280	ug/l #	14
16) Acetone	2.44	43	13022	3.141	ug/l #	88
17) Carbon Disulfide	2.56	76	1846	0.871	ug/l #	94
24) 1,1-Dichloroethane	3.69	63	5269	0.491	ug/l #	80
27) cis-1,2-Dichloroethene	4.58	96	8550	1.266	ug/l	92
28) Bromochloromethane	4.99	49	240	0.511	ug/l #	88
32) 1,1,1-Trichloroethane	5.48	97	1866	0.215	ug/l #	23
36) 1,1-Dichloropropene	5.65	75	36902	4.628	ug/l #	41
38) Carbon Tetrachloride	5.78	117	7082	0.975	ug/l	95
44) Trichloroethene	7.21	130	812519	119.914	ug/l	100
49) 1,4-Dioxane	7.75	88	745	5.131	ug/l #	1
55) 1,1,2-Trichloroethane	9.21	97	4606	0.741	ug/l	88
76) 1,2,3-Trichloropropane	11.13	75	161852	23.069	ug/l #	39
81) trans-1,4-Dichloro-2-buten	11.13	75	161852	65.114	ug/l #	11

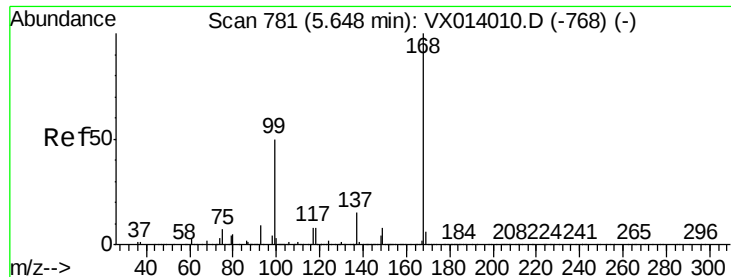
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX121619\
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Quant Time: Dec 17 03:33:07 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X121319W.M
Quant Title : SW846 8260
QLast Update : Tue Dec 17 03:01:07 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 781

Delta R.T. 0.00 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

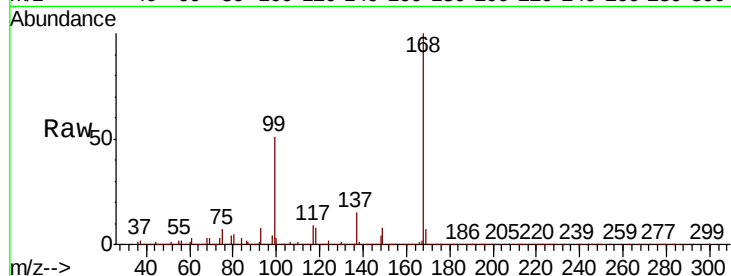
DUP04-20191206

Tot Ion:168 Resp: 563390

Ion Ratio Lower Upper

168 100

99 51.0 40.3 60.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.65

200000

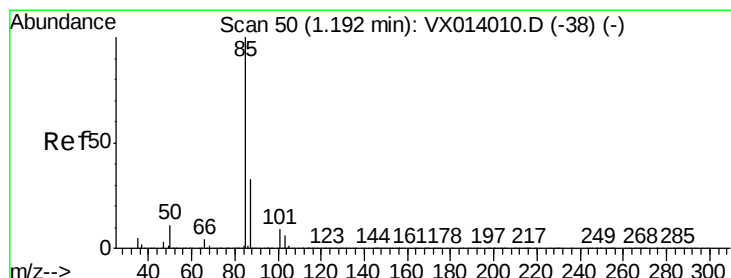
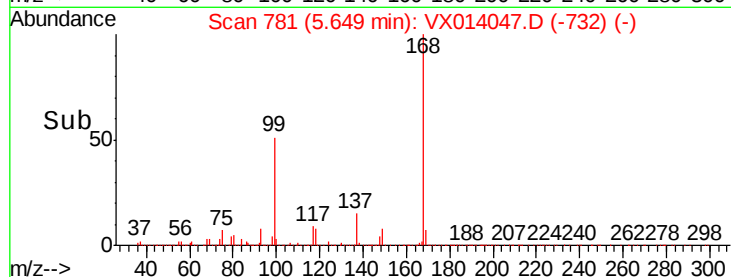
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.353 ug/l

RT: 1.19 min Scan# 49

Delta R.T. -0.01 min

Lab File: VX014047.D

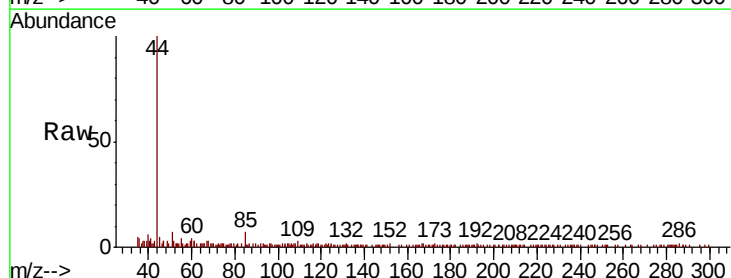
Acq: 16 Dec 2019 19:53

Tgt Ion: 85 Resp: 1777

Ion Ratio Lower Upper

85 100

87 12.6 16.4 49.2#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

800

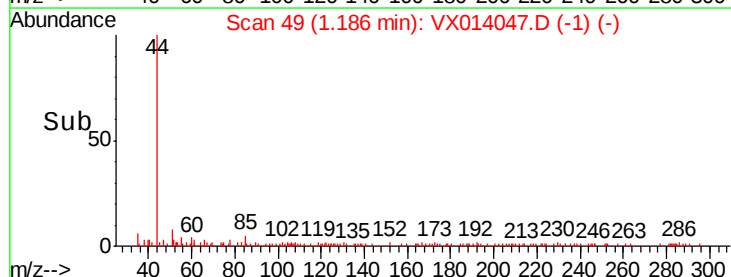
600

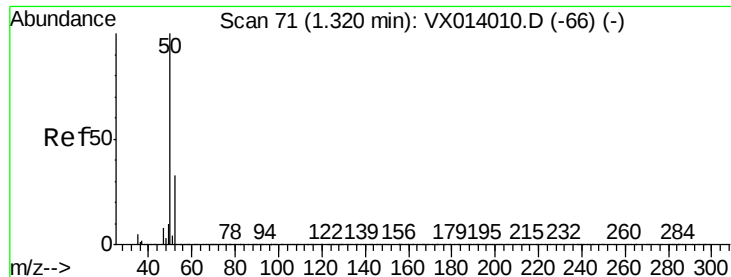
400

200

0

Time-->





#3

Chloromethane

Concen: 0.210 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

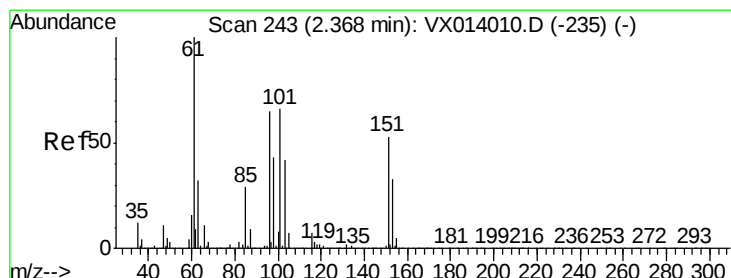
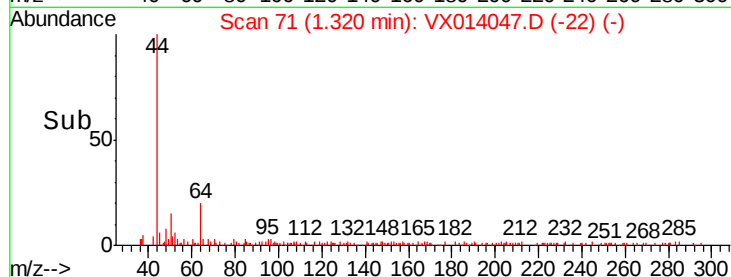
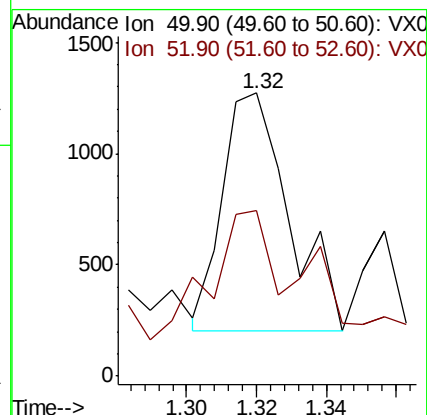
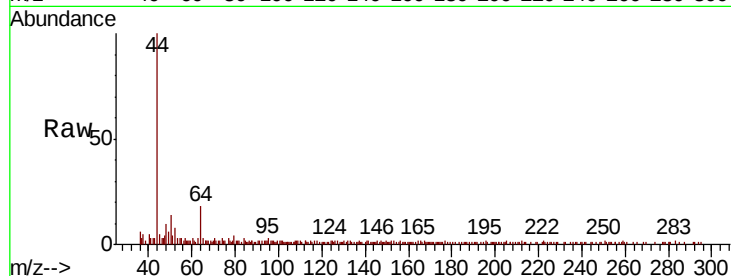
DUP04-20191206

Tot Ion: 50 Resp: 1421

Ion Ratio Lower Upper

50 100

52 47.1 26.2 39.4#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.234 ug/l

RT: 2.37 min Scan# 244

Delta R.T. 0.01 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

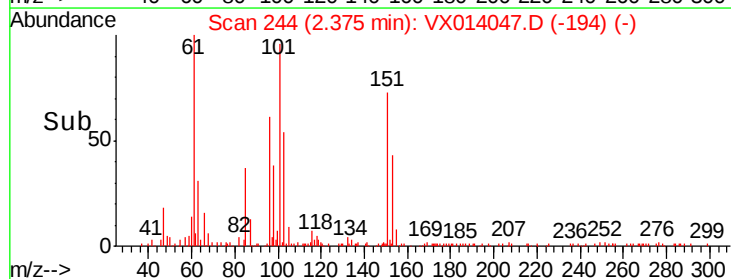
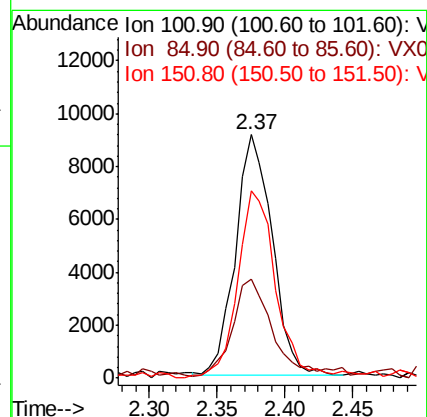
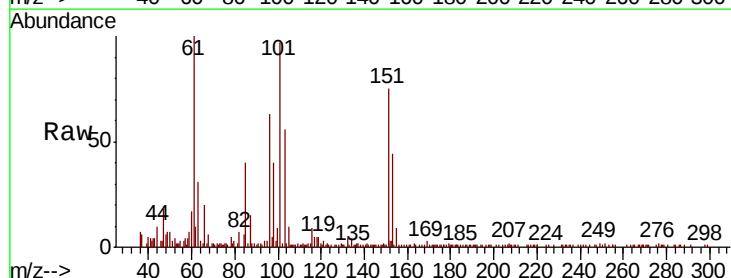
Tgt Ion: 101 Resp: 17222

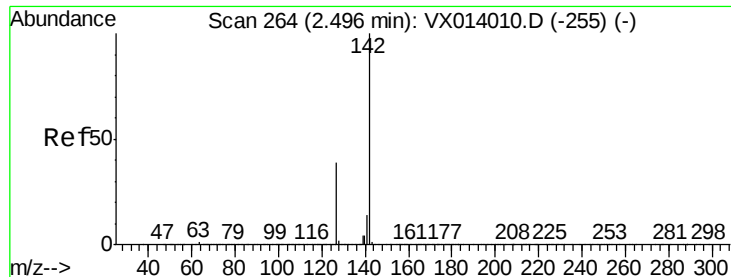
Ion Ratio Lower Upper

101 100

85 42.2 33.7 50.5

151 80.4 64.5 96.7





#10

Methyl Iodide

Concen: 2.673 ug/l

RT: 2.48 min Scan# 262

Delta R.T. -0.01 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

DUP04-20191206

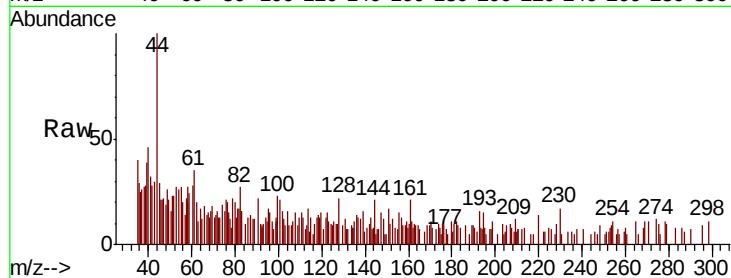
Tot Ion:142 Resp: 389

Ion Ratio Lower Upper

142 100

127 131.4 31.6 47.4#

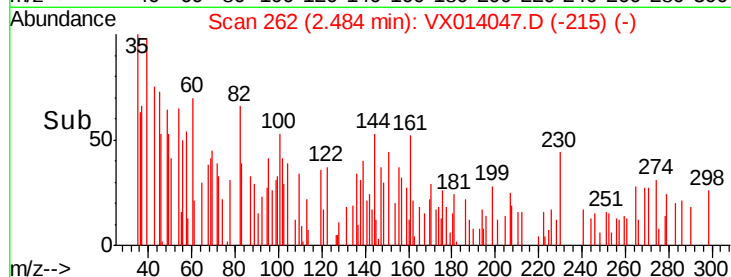
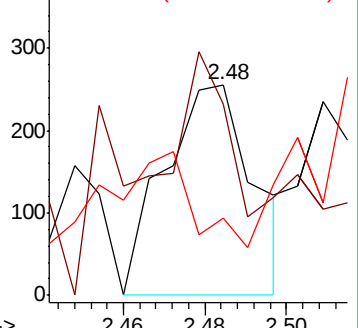
141 37.8 11.6 17.4#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 0.257 ug/l

RT: 3.06 min Scan# 356

Delta R.T. 0.01 min

Lab File: VX014047.D

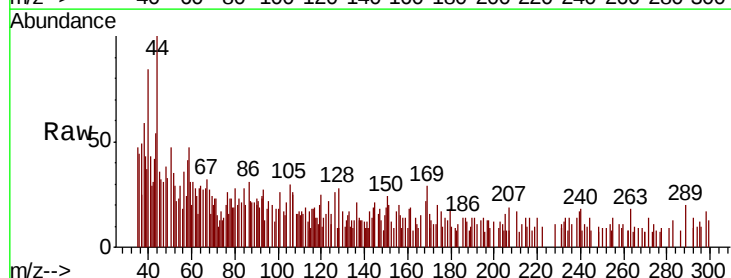
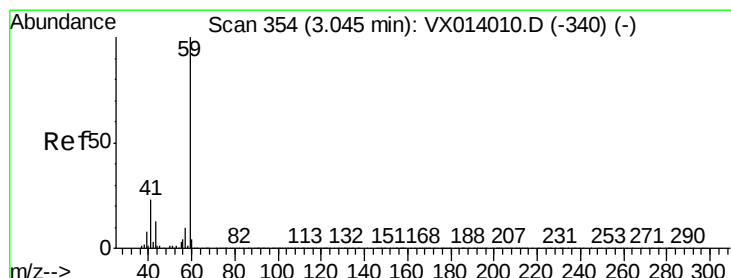
Acq: 16 Dec 2019 19:53

Tgt Ion: 59 Resp: 354

Ion Ratio Lower Upper

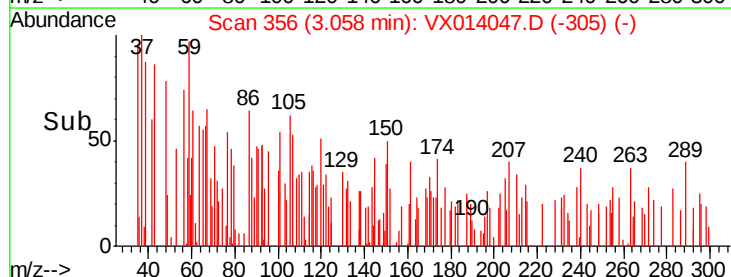
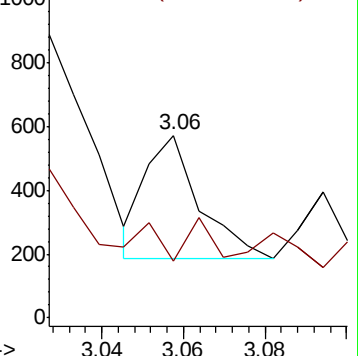
59 100

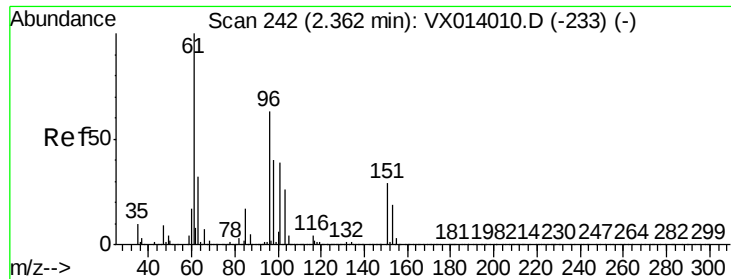
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#12

1,1-Dichloroethene

Concen: 2.369 ug/l

RT: 2.36 min Scan# 242

Delta R.T. 0.00 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

DUP04-20191206

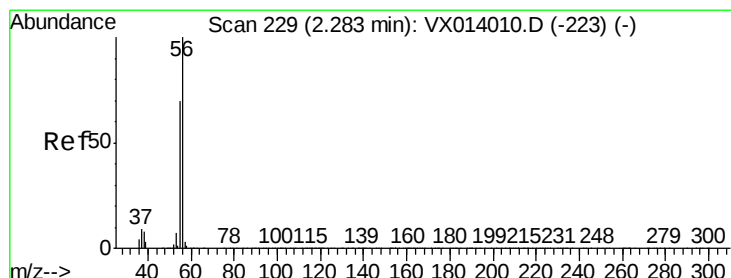
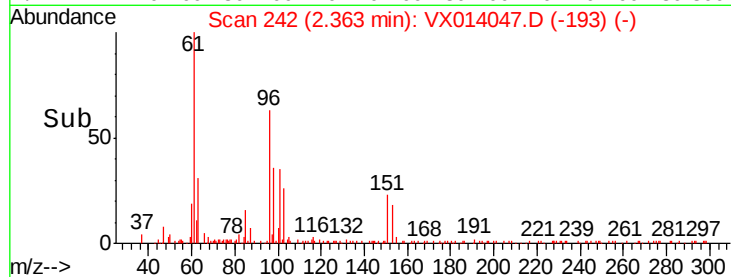
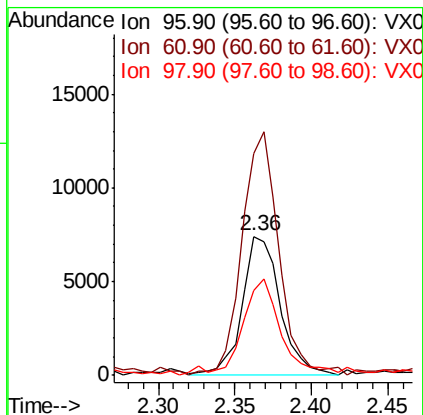
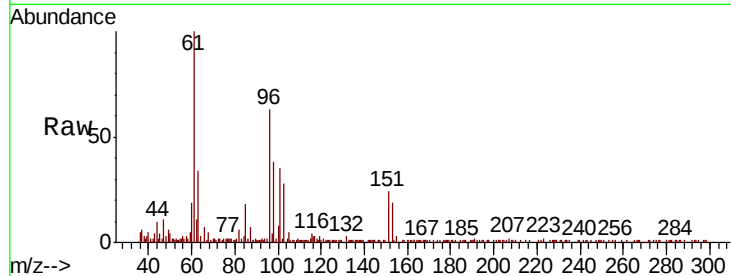
Tot Ion: 96 Resp: 12840

Ion Ratio Lower Upper

96 100

61 155.6 127.9 191.9

98 59.0 50.5 75.7



#13

Acrolein

Concen: 0.280 ug/l

RT: 2.28 min Scan# 228

Delta R.T. -0.01 min

Lab File: VX014047.D

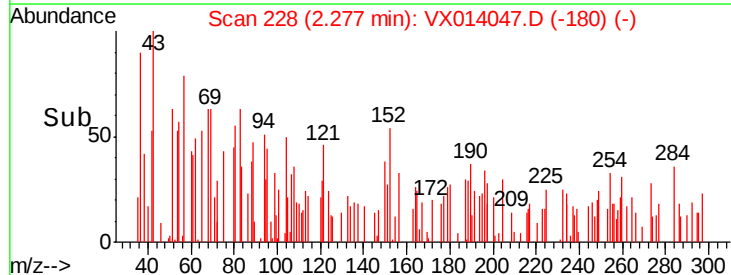
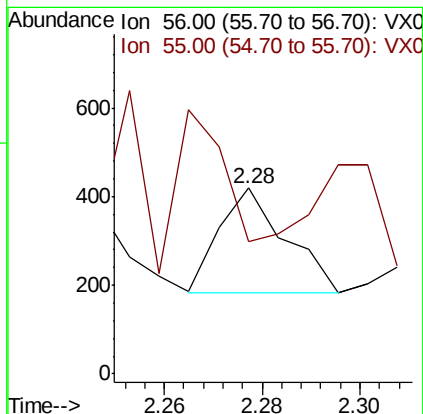
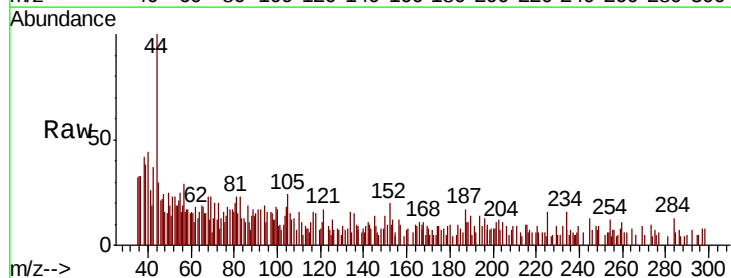
Acq: 16 Dec 2019 19:53

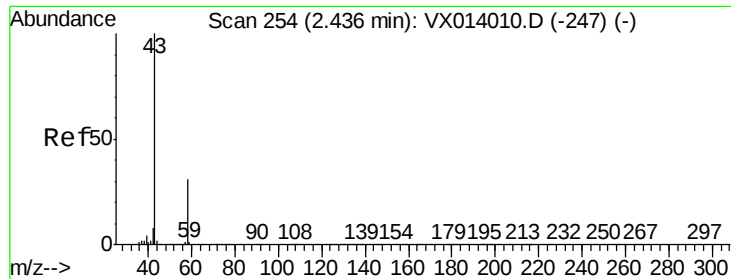
Tgt Ion: 56 Resp: 221

Ion Ratio Lower Upper

56 100

55 0.0 56.9 85.3#





#16

Acetone

Concen: 3.141 ug/l

RT: 2.44 min Scan# 254

Delta R.T. 0.00 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

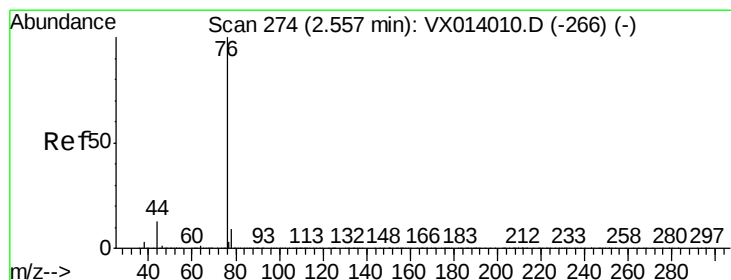
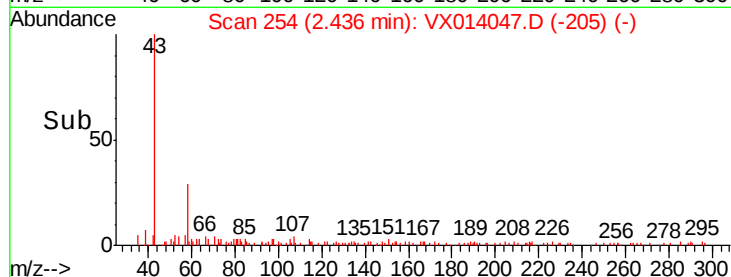
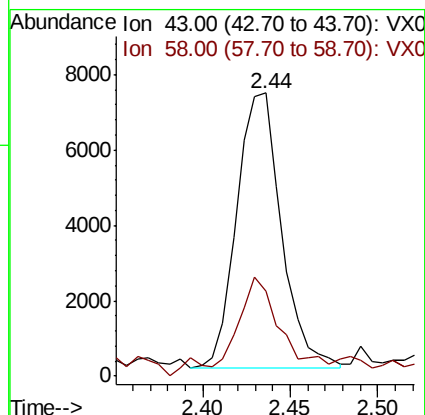
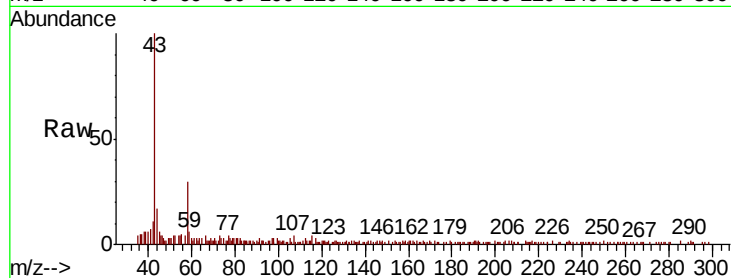
DUP04-20191206

Tot Ion: 43 Resp: 13022

Ion Ratio Lower Upper

43 100

58 24.4 24.9 37.3#



#17

Carbon Disulfide

Concen: 0.871 ug/l

RT: 2.56 min Scan# 275

Delta R.T. 0.01 min

Lab File: VX014047.D

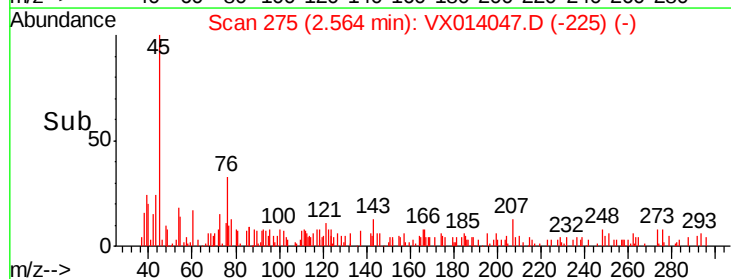
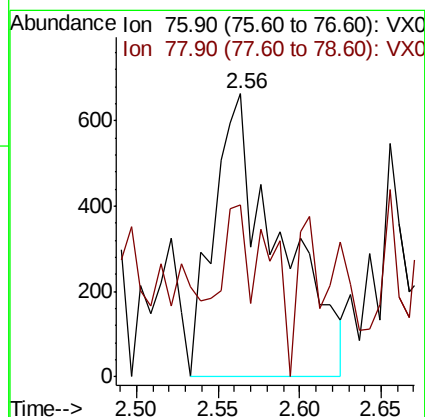
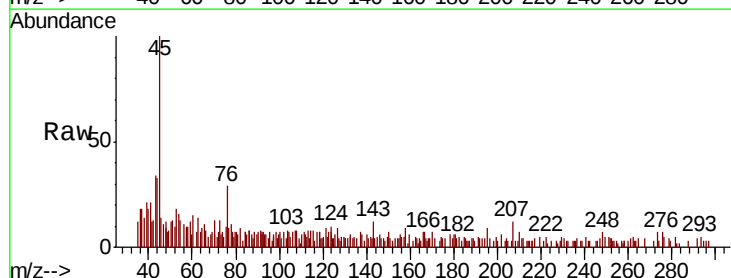
Acq: 16 Dec 2019 19:53

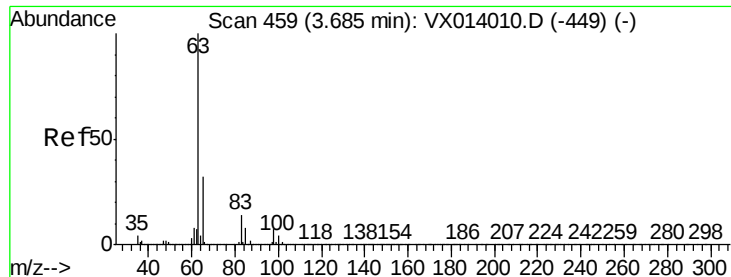
Tgt Ion: 76 Resp: 1846

Ion Ratio Lower Upper

76 100

78 11.3 7.2 10.8#





#24

1,1-Dichloroethane

Concen: 0.491 ug/l

RT: 3.69 min Scan# 459

Delta R.T. 0.00 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

DUP04-20191206

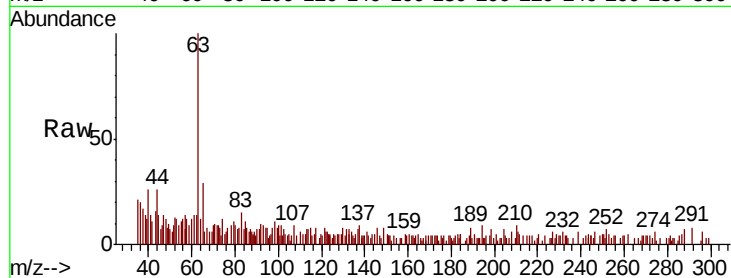
Tot Ion: 63 Resp: 5269

Ion Ratio Lower Upper

63 100

98 1.4 3.6 10.8#

100 13.1 2.3 6.8#



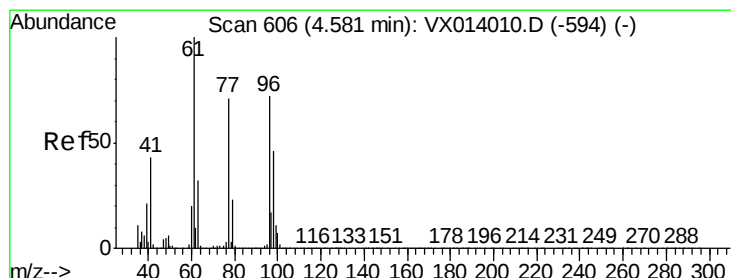
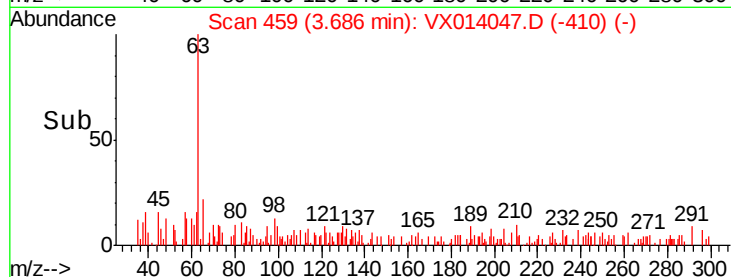
Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0

3.69

Time-->



#27

cis-1,2-Dichloroethene

Concen: 1.266 ug/l

RT: 4.58 min Scan# 606

Delta R.T. 0.00 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

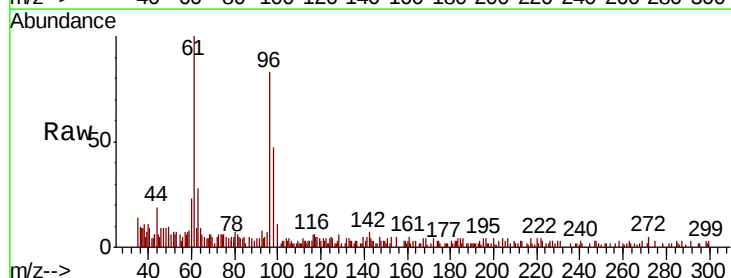
Tgt Ion: 96 Resp: 8550

Ion Ratio Lower Upper

96 100

61 133.9 0.0 288.4

98 69.9 0.0 129.6



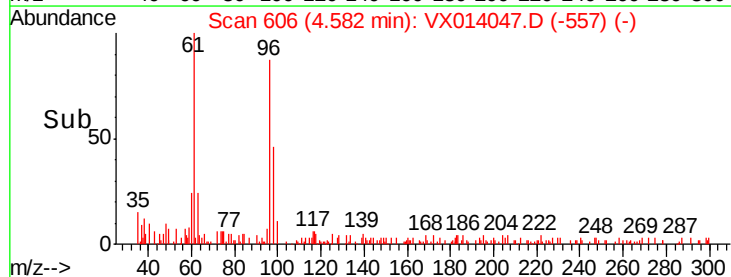
Abundance Ion 95.90 (95.60 to 96.60): VX0

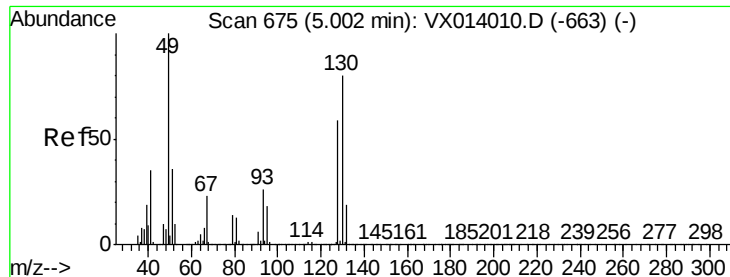
Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

4.58

Time-->





#28

Bromochloromethane

Concen: 0.511 ug/l

RT: 4.99 min Scan# 673

Delta R.T. -0.01 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

DUP04-20191206

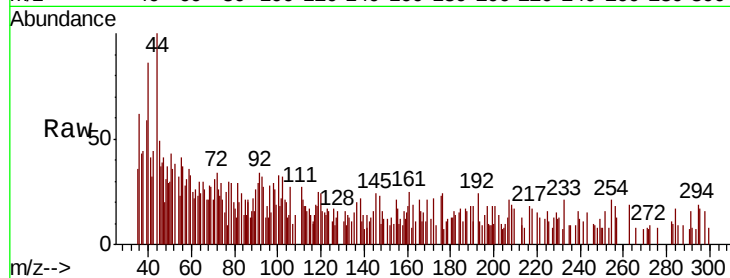
Tot Ion: 49 Resp: 240

Ion Ratio Lower Upper

49 100

129 69.2 0.0 5.0#

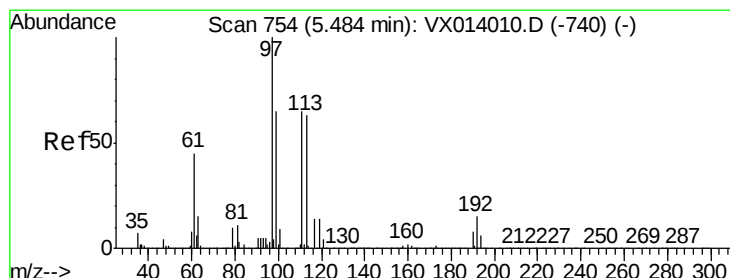
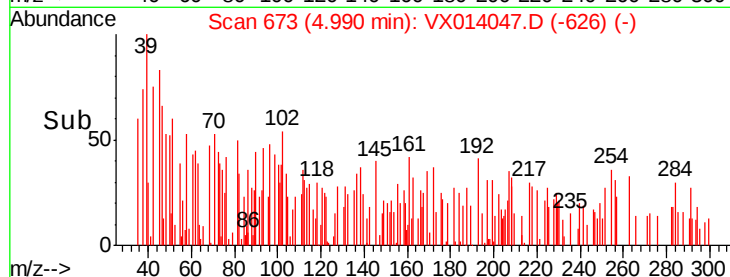
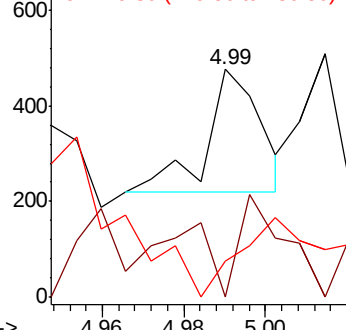
130 86.7 64.6 97.0



Abundance Ion 48.90 (48.60 to 49.60): VX0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V



#32

1,1,1-Trichloroethane

Concen: 0.215 ug/l

RT: 5.48 min Scan# 754

Delta R.T. 0.00 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

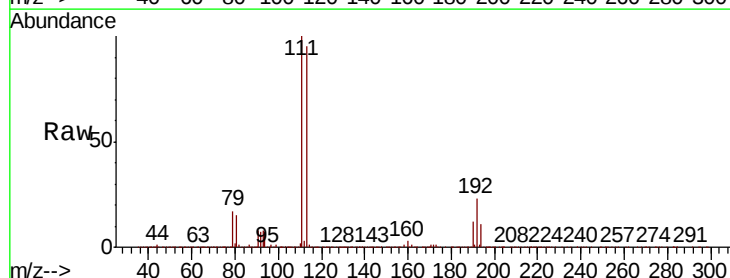
Tgt Ion: 97 Resp: 1866

Ion Ratio Lower Upper

97 100

99 0.0 52.0 78.0#

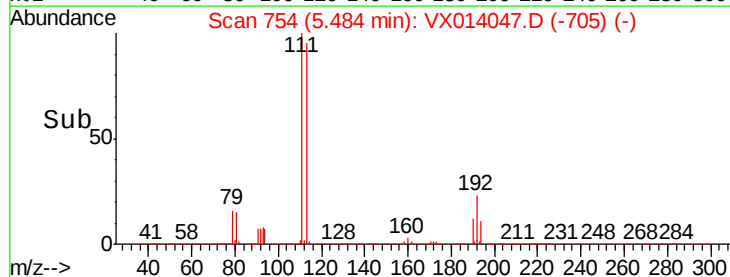
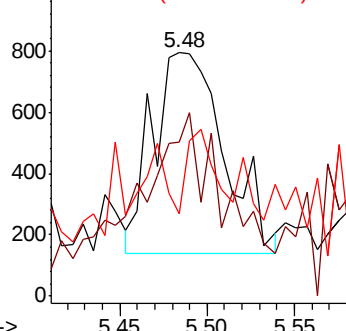
61 0.0 36.7 55.1#

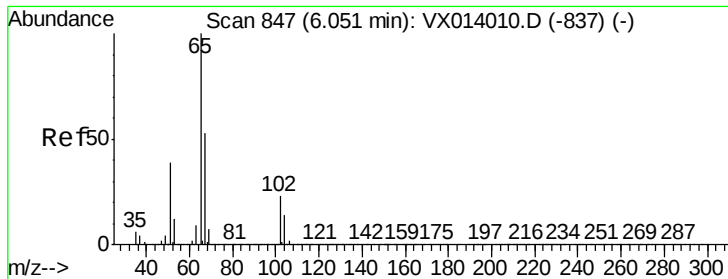


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 98.90 (98.60 to 99.60): VX0

Ion 60.90 (60.60 to 61.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 49.662 ug/l

RT: 6.06 min Scan# 848

Delta R.T. 0.01 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

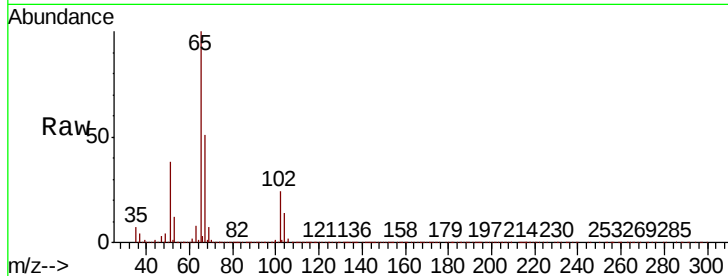
DUP04-20191206

Tot Ion: 65 Resp: 317107

Ion Ratio Lower Upper

65 100

67 53.0 0.0 106.4



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

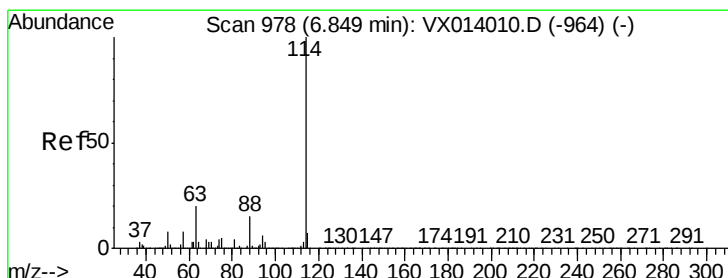
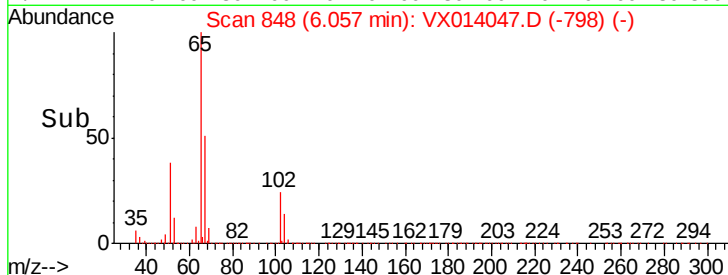
6.06

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.85 min Scan# 978

Delta R.T. 0.00 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

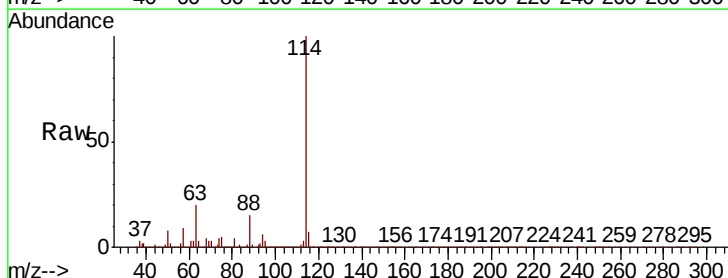
Tgt Ion: 114 Resp: 868927

Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.8

88 15.2 0.0 30.4



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

500000

400000

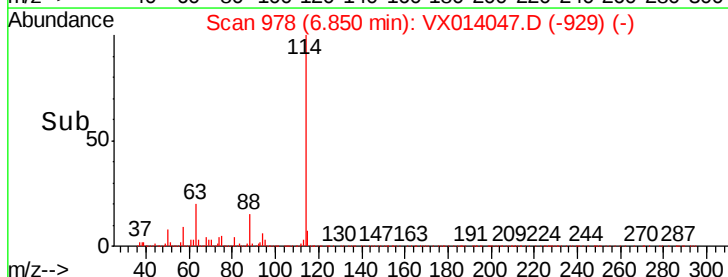
300000

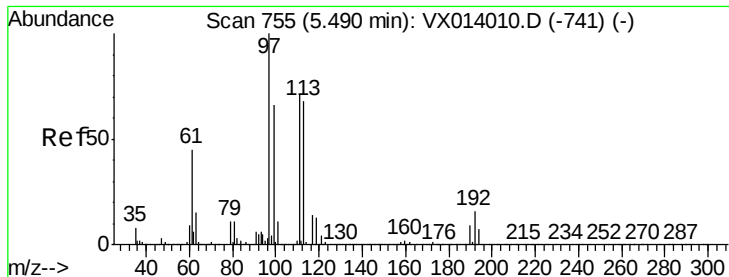
200000

100000

0

Time-->





#35

Dibromofluoromethane

Concen: 49.251 ug/l

RT: 5.49 min Scan# 755

Delta R.T. 0.00 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

DUP04-20191206

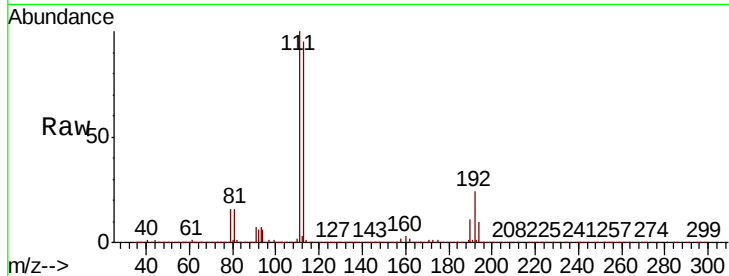
Tot Ion:113 Resp: 260151

Ion Ratio Lower Upper

113 100

111 101.9 82.0 123.0

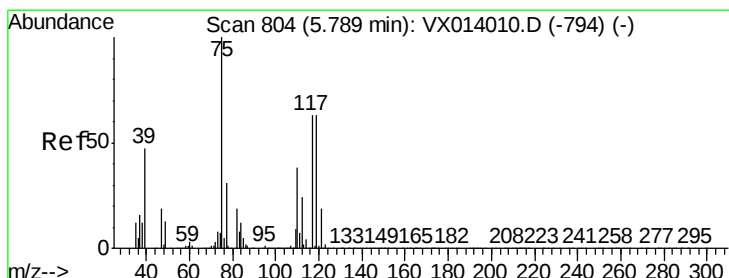
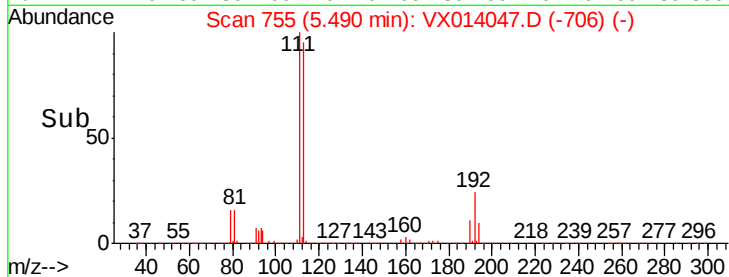
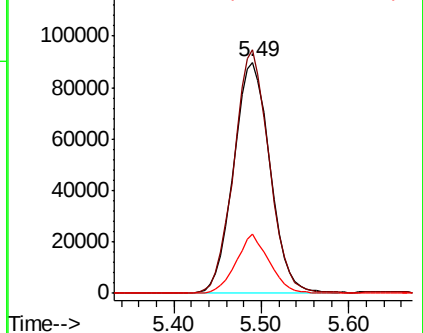
192 23.2 19.3 28.9



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: 4.628 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

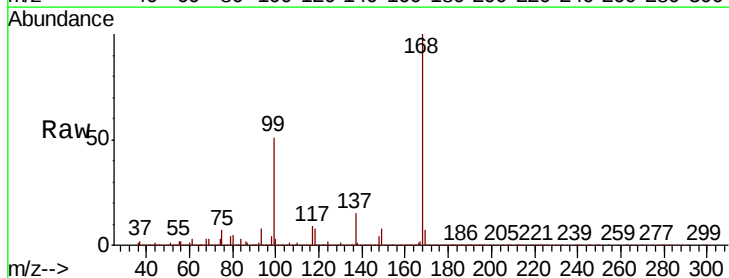
Tgt Ion: 75 Resp: 36902

Ion Ratio Lower Upper

75 100

110 0.0 18.3 54.9#

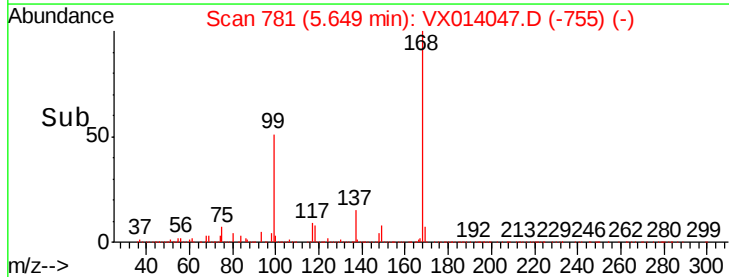
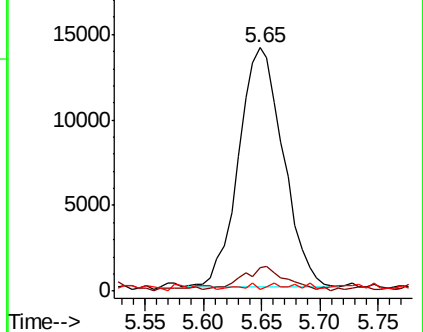
77 0.6 24.8 37.2#

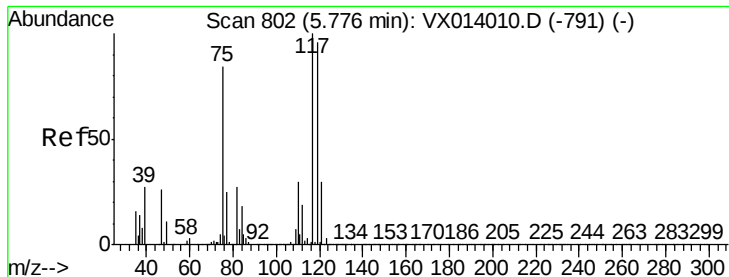


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 0.975 ug/l

RT: 5.78 min Scan# 802

Delta R.T. 0.00 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

DUP04-20191206

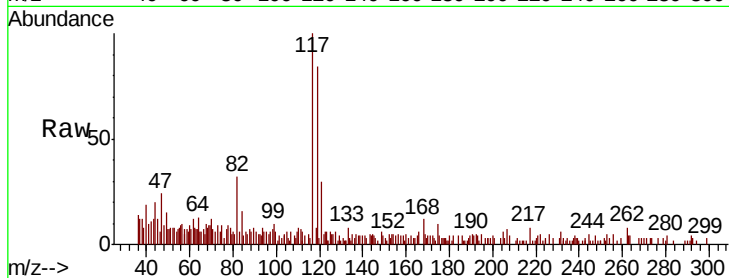
Tot Ion:117 Resp: 7082

Ion Ratio Lower Upper

117 100

119 89.5 76.2 114.4

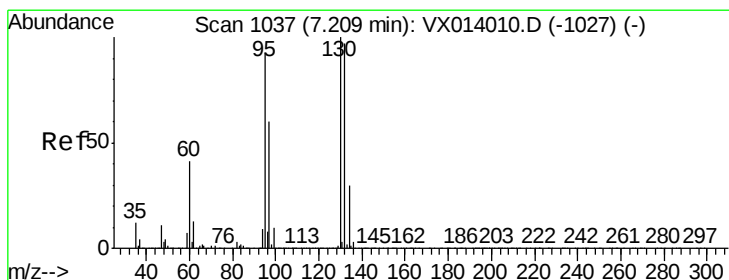
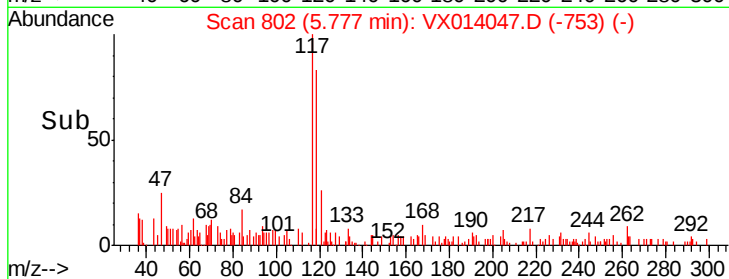
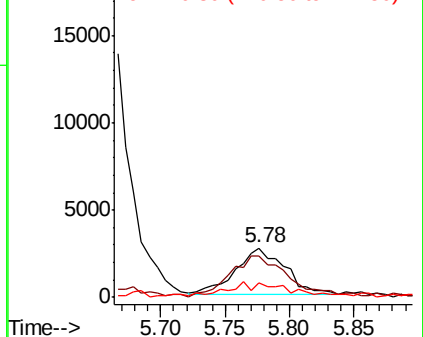
121 28.5 23.6 35.4



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



#44

Trichloroethene

Concen: 119.914 ug/l

RT: 7.21 min Scan# 1037

Delta R.T. 0.00 min

Lab File: VX014047.D

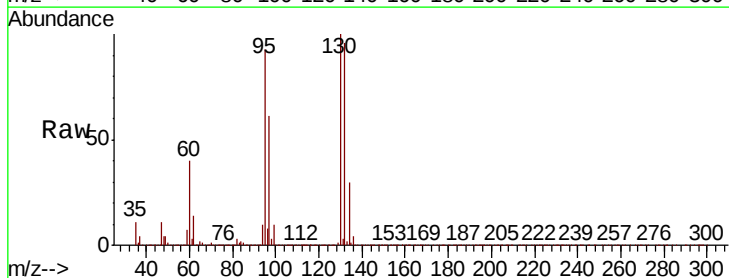
Acq: 16 Dec 2019 19:53

Tgt Ion:130 Resp: 812519

Ion Ratio Lower Upper

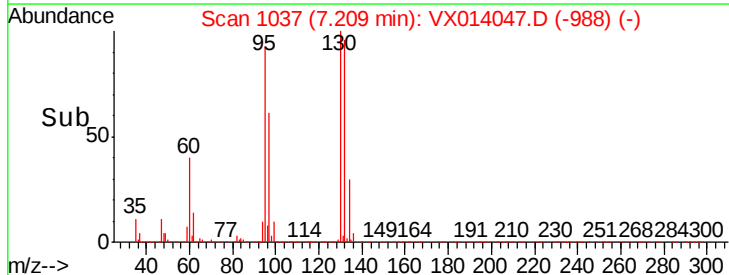
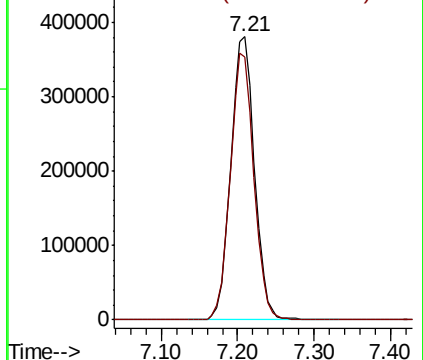
130 100

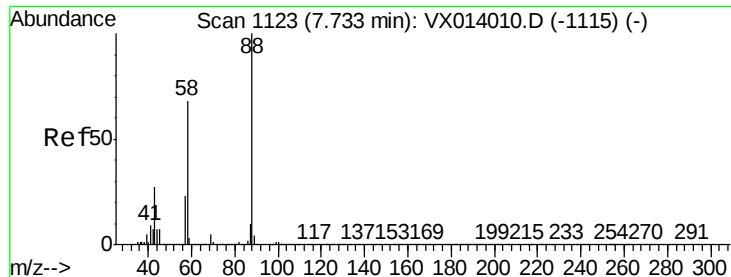
95 92.7 0.0 185.6



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): V





#49

1,4-Dioxane

Concen: 5.131 ug/l

RT: 7.75 min Scan# 1126

Delta R.T. 0.02 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

DUP04-20191206

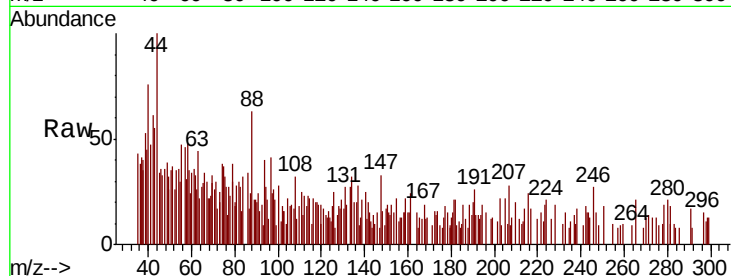
Tot Ion: 88 Resp: 745

Ion Ratio Lower Upper

88 100

43 98.1 26.5 39.7#

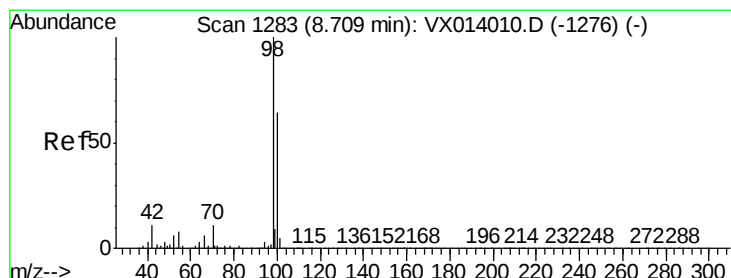
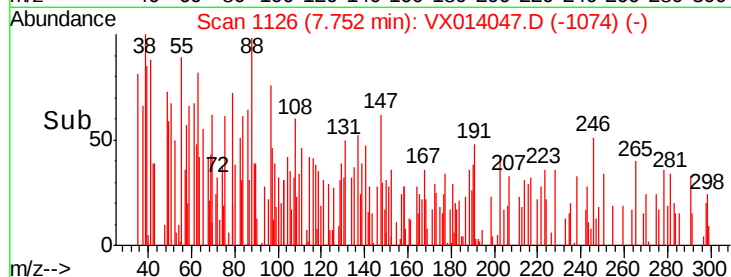
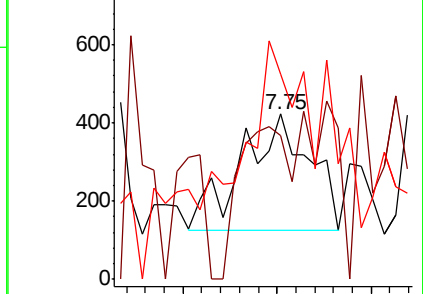
58 240.5 56.8 85.2#



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: 49.677 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. 0.00 min

Lab File: VX014047.D

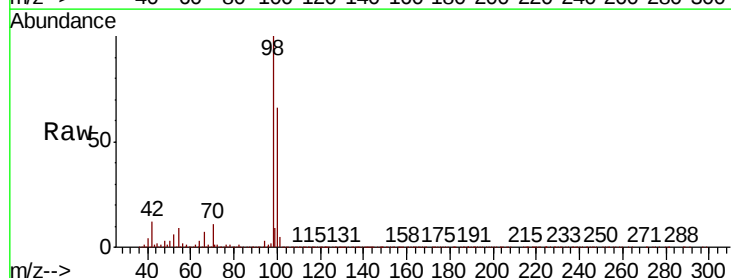
Acq: 16 Dec 2019 19:53

Tgt Ion: 98 Resp: 1021588

Ion Ratio Lower Upper

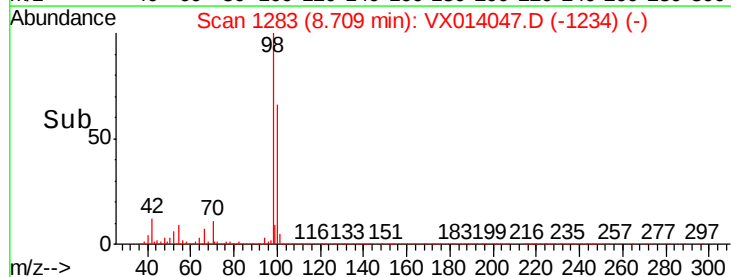
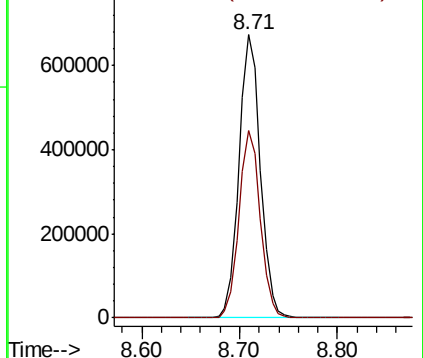
98 100

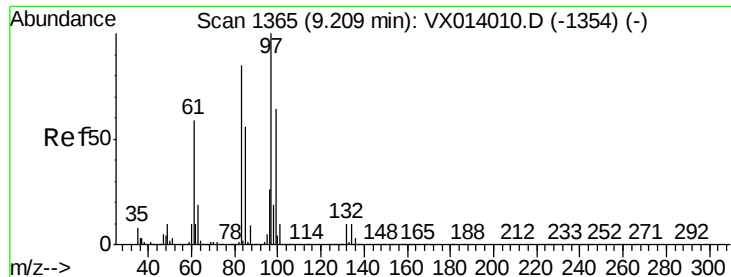
100 66.2 52.9 79.3



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): V





#55

1,1,2-Trichloroethane

Concen: 0.741 ug/l

RT: 9.21 min Scan# 1365

Delta R.T. 0.00 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

DUP04-20191206

Tot Ion: 97 Resp: 4606

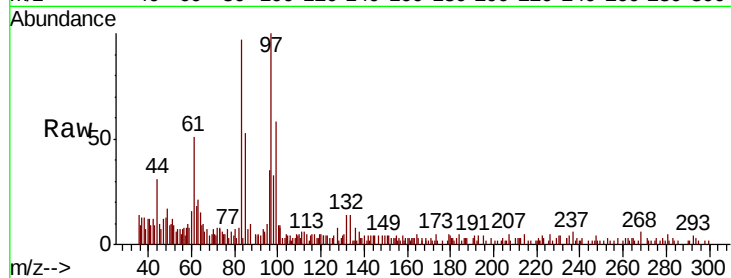
Ion Ratio Lower Upper

97 100

83 101.8 68.2 102.4

85 50.8 44.6 66.8

99 56.9 51.4 77.0

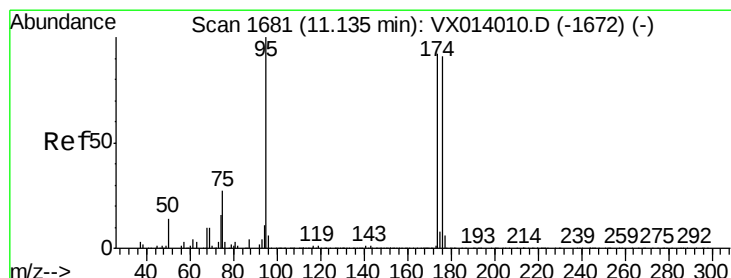
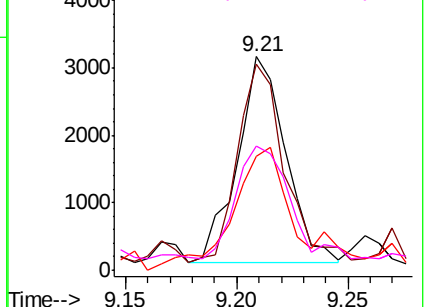
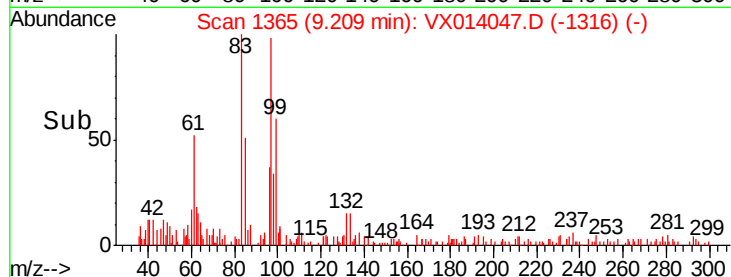


Abundance Ion 96.90 (96.60 to 97.60): VX0

Ion 82.90 (82.60 to 83.60): VX0

Ion 84.90 (84.60 to 85.60): VX0

Ion 98.90 (98.60 to 99.60): VX0



#62

4-Bromofluorobenzene

Concen: 44.502 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

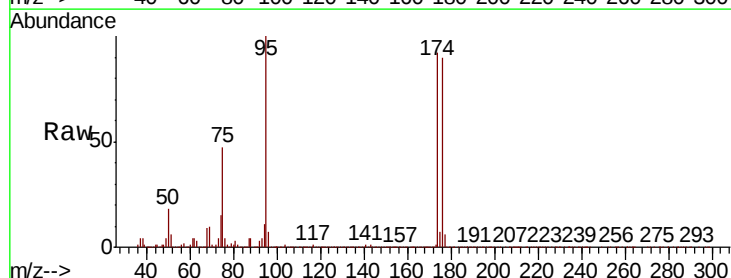
Tgt Ion: 95 Resp: 334530

Ion Ratio Lower Upper

95 100

174 88.5 0.0 175.8

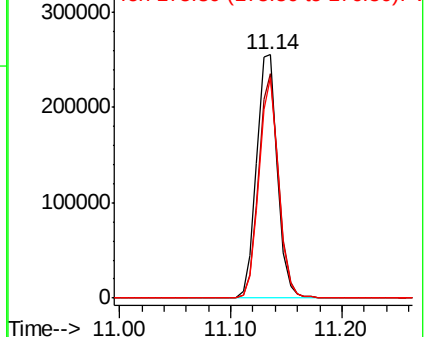
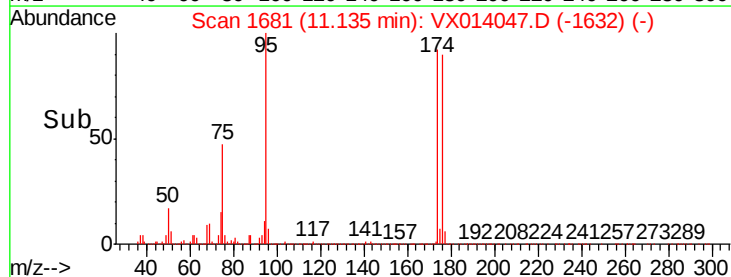
176 85.8 0.0 173.0

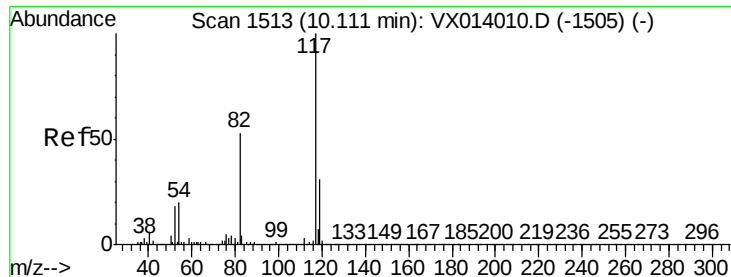


Abundance Ion 94.90 (94.60 to 95.60): VX0

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# 1513

Delta R.T. 0.00 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_X

ClientSampleId :

DUP04-20191206

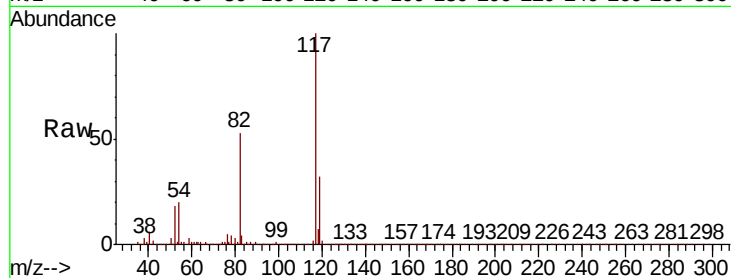
Tot Ion:117 Resp: 763666

Ion Ratio Lower Upper

117 100

82 53.3 42.2 63.4

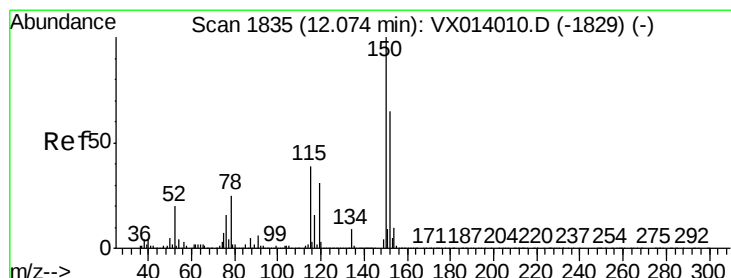
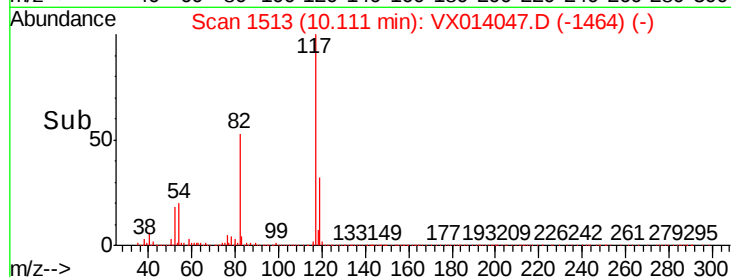
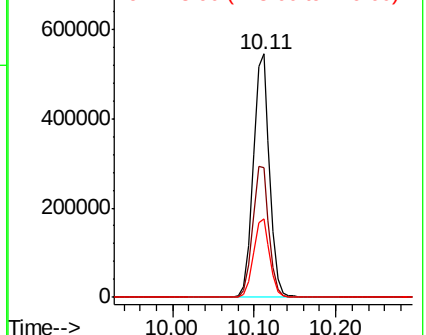
119 32.0 25.1 37.7



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: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

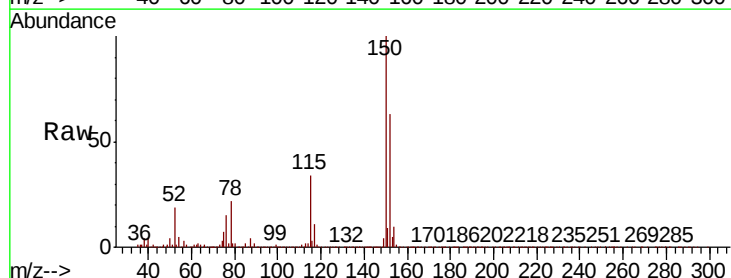
Tgt Ion:152 Resp: 323166

Ion Ratio Lower Upper

152 100

115 54.9 38.3 114.9

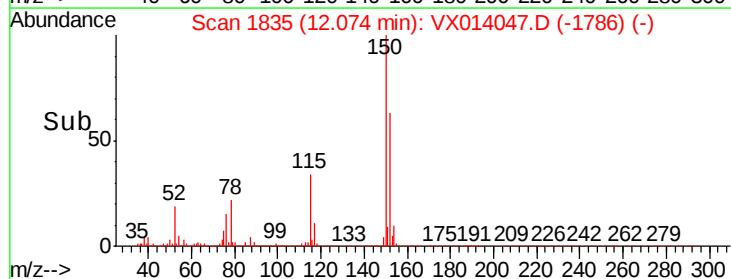
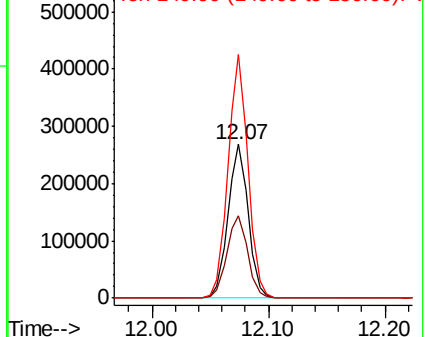
150 155.9 0.0 345.4

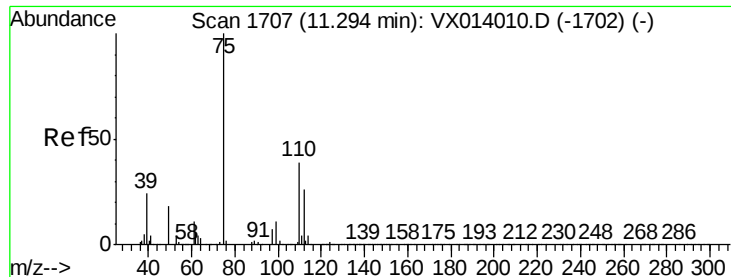


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.069 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

Instrument :

MSVOA_X

ClientSampled :

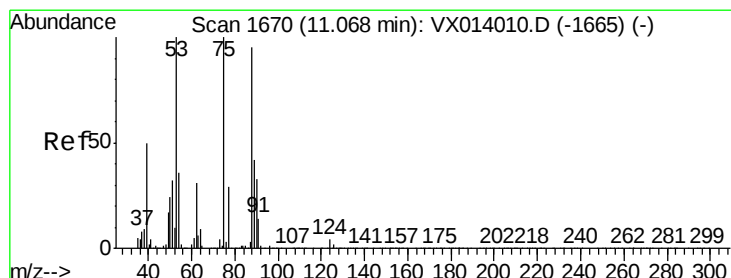
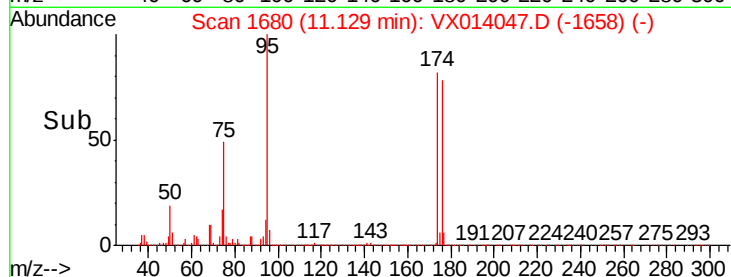
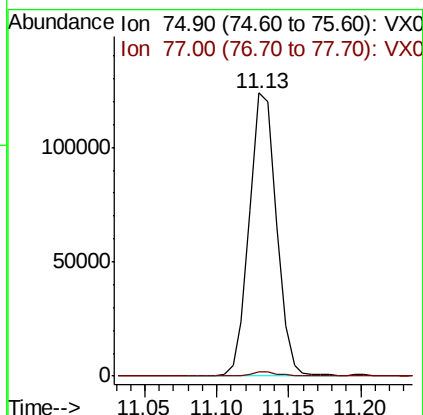
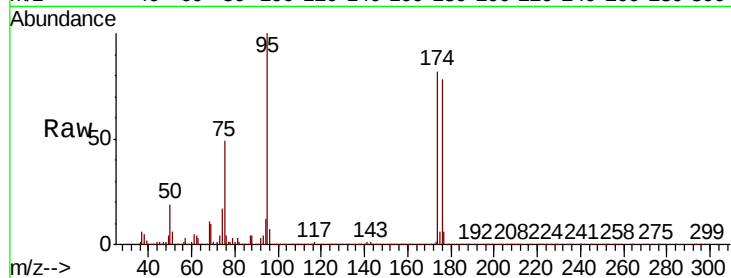
DUP04-20191206

Tot Ion: 75 Resp: 161852

Ion Ratio Lower Upper

75 100

77 1.6 19.3 57.8#



#81

trans-1,4-Dichloro-2-butene

Concen: 65.114 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX014047.D

Acq: 16 Dec 2019 19:53

Tgt Ion: 75 Resp: 161852

Ion Ratio Lower Upper

75 100

53 0.0 76.7 115.1#

89 0.1 34.6 51.8#

