

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100919\
 Data File : VX012966.D
 Acq On : 10 Oct 2019 01:27
 Operator : JC/SP
 Sample : K5260-09
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 10 06:49:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X100819W.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 09 01:51:23 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.65	168	178731	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	303723	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	259577	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	102378	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.05	65	116750	52.26	ug/l	0.00
Spiked Amount			Recovery	=	104.52%	
35) Dibromofluoromethane	5.49	113	90029	51.65	ug/l	0.00
Spiked Amount			Recovery	=	103.30%	
50) Toluene-d8	8.71	98	353371	51.97	ug/l	0.00
Spiked Amount			Recovery	=	103.94%	
62) 4-Bromofluorobenzene	11.14	95	119811	45.35	ug/l	0.00
Spiked Amount			Recovery	=	90.70%	

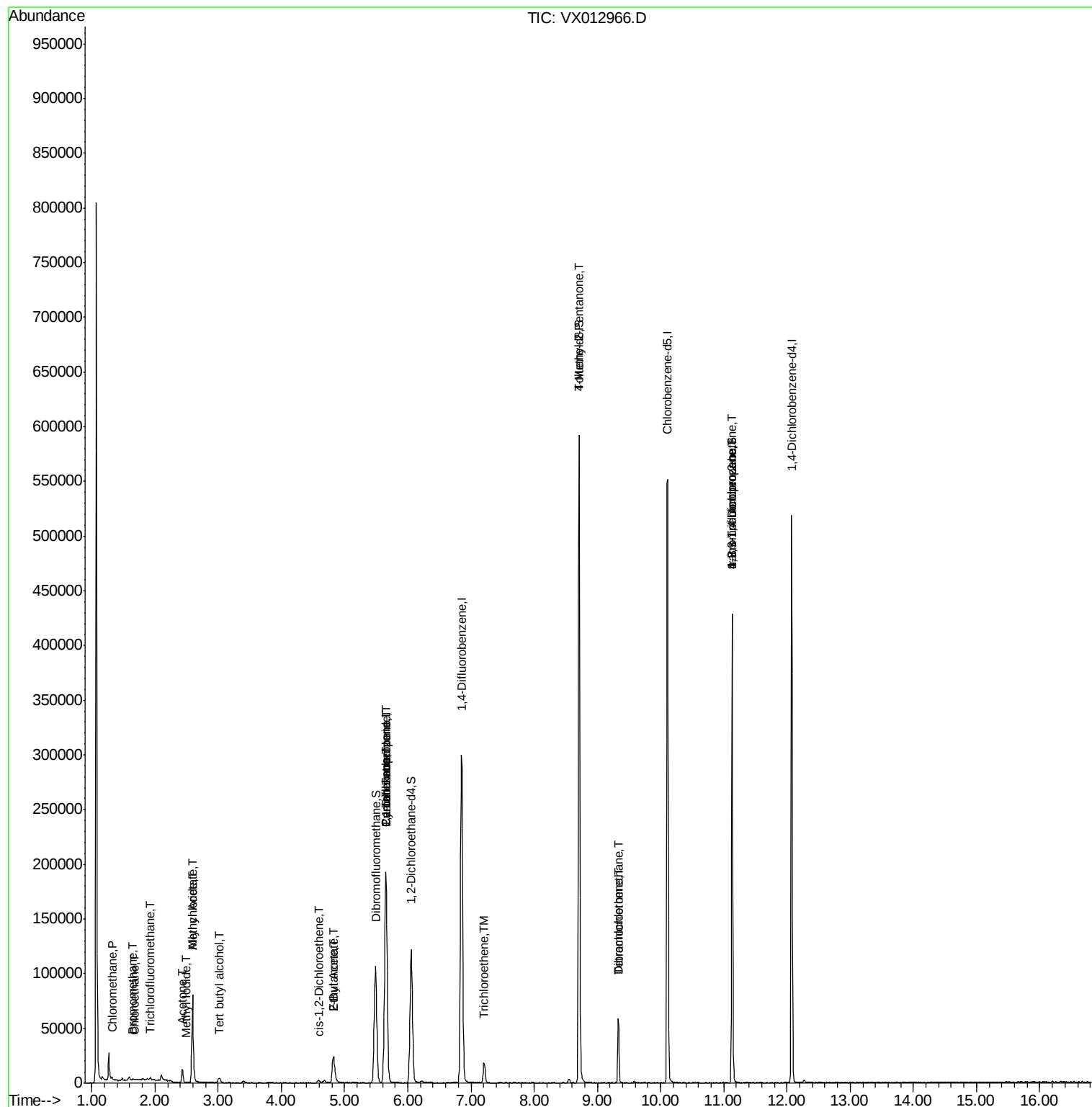
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1206	0.608	ug/l #	85
5) Bromomethane	1.65	94	444	0.522	ug/l #	45
6) Chloroethane	1.67	64	212	0.536	ug/l #	43
7) Trichlorofluoromethane	1.93	101	1044	0.378	ug/l	96
10) Methyl Iodide	2.50	142	23	5.092	ug/l #	40
11) Tert butyl alcohol	3.03	59	4717	7.965	ug/l #	94
14) Allyl chloride	2.59	41	7750	2.409	ug/l #	61
16) Acetone	2.43	43	12939	10.989	ug/l	95
18) Methyl Acetate	2.59	43	20797	7.452	ug/l #	51
25) 2-Butanone	4.82	43	44203	27.058	ug/l #	49
27) cis-1,2-Dichloroethene	4.58	96	1391	0.623	ug/l	89
31) Cyclohexane	5.65	56	3843	1.185	ug/l #	1
36) 1,1-Dichloropropene	5.65	75	14091	5.277	ug/l #	51
37) Ethyl Acetate	4.82	43	44518	14.909	ug/l	98
38) Carbon Tetrachloride	5.65	117	19058	7.332	ug/l #	18
44) Trichloroethene	7.22	130	7505	3.432	ug/l	92
51) 4-Methyl-2-Pentanone	8.71	43	1605	0.537	ug/l #	1
60) Dibromochloromethane	9.33	129	10750	6.515	ug/l #	10
64) Tetrachloroethene	9.33	164	10907	6.058	ug/l	91
76) 1,2,3-Trichloropropane	11.13	75	60267	26.541	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	60267	66.758	ug/l #	10

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

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QLast Update : Wed Oct 09 01:51:23 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.65 min Scan# 782

Delta R.T. 0.00 min

Lab File: VX012966.D

Acq: 10 Oct 2019 01:27

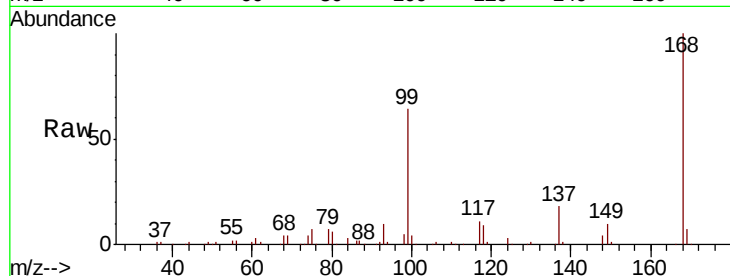
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 178731

Ion Ratio Lower Upper

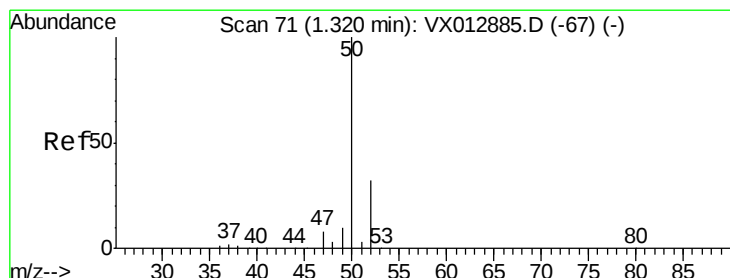
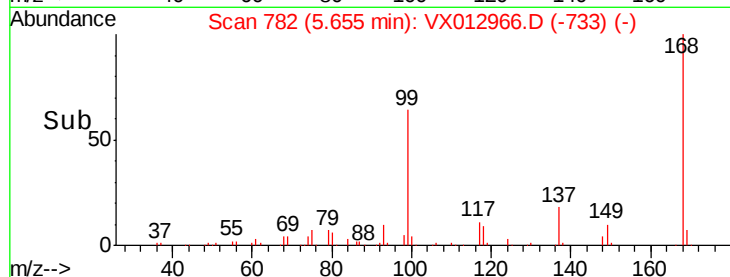
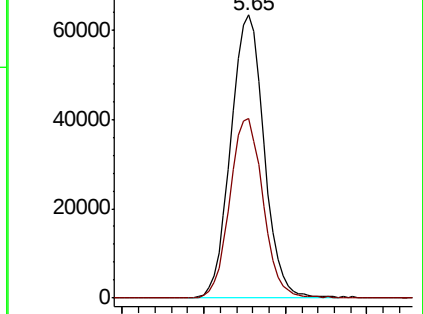
168 100

99 63.6 49.4 74.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.608 ug/l

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VX012966.D

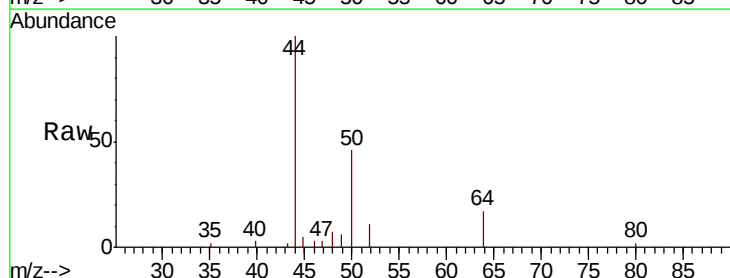
Acq: 10 Oct 2019 01:27

Tgt Ion: 50 Resp: 1206

Ion Ratio Lower Upper

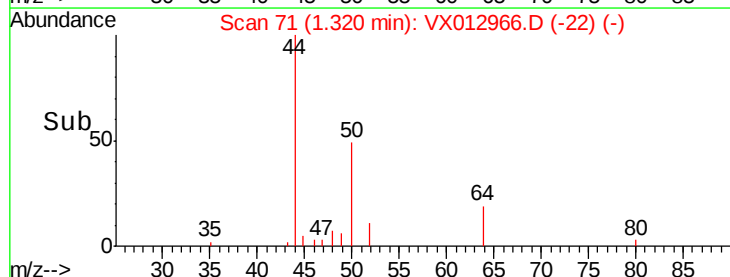
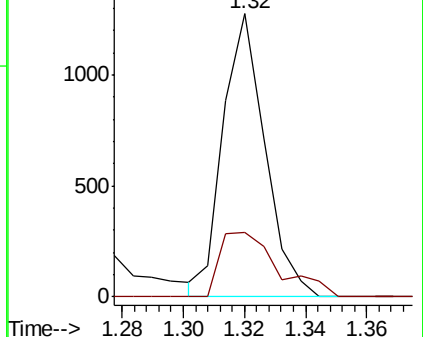
50 100

52 23.0 25.2 37.8#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#5

Bromomethane

Concen: 0.522 ug/l

RT: 1.65 min Scan# 125

Delta R.T. 0.02 min

Lab File: VX012966.D

Acq: 10 Oct 2019 01:27

Instrument :

MSVOA_X

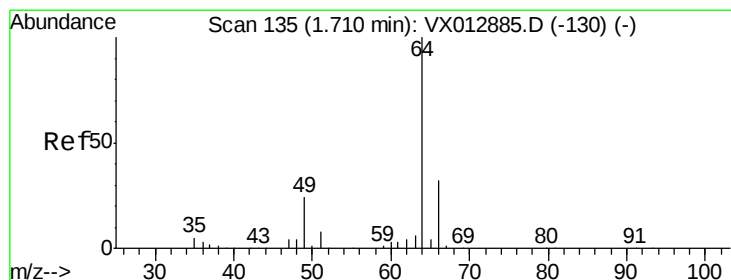
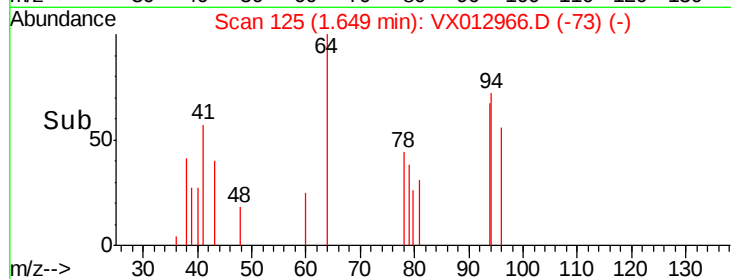
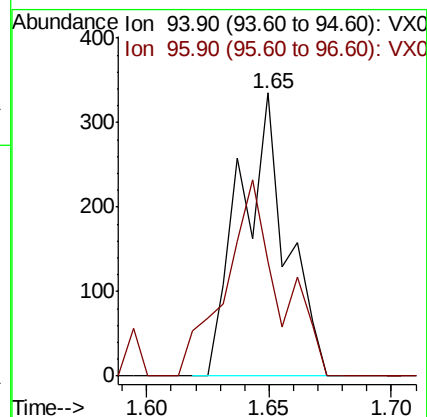
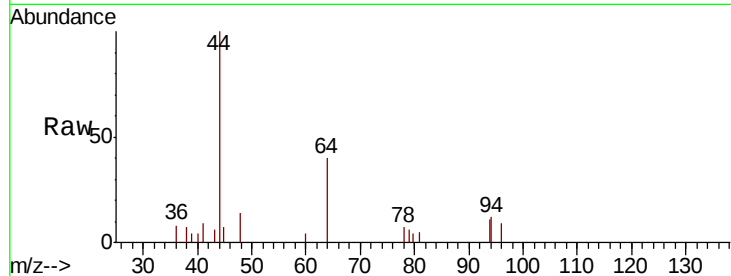
ClientSampled :

Tot Ion: 94 Resp: 444

Ion Ratio Lower Upper

94 100

96 40.6 74.7 112.1#



#6

Chloroethane

Concen: 0.536 ug/l

RT: 1.67 min Scan# 129

Delta R.T. -0.04 min

Lab File: VX012966.D

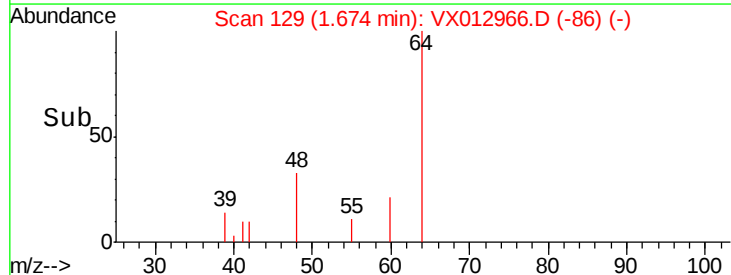
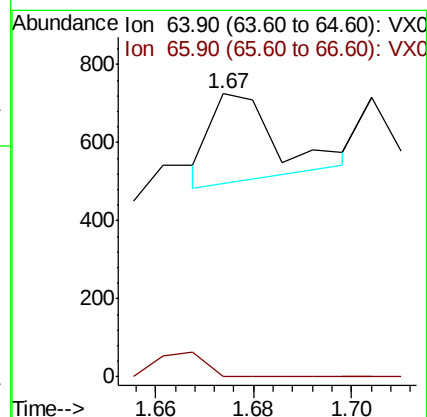
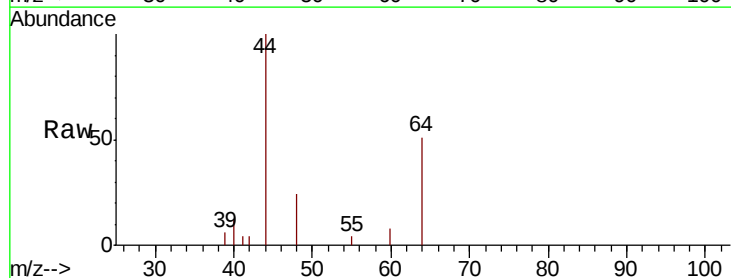
Acq: 10 Oct 2019 01:27

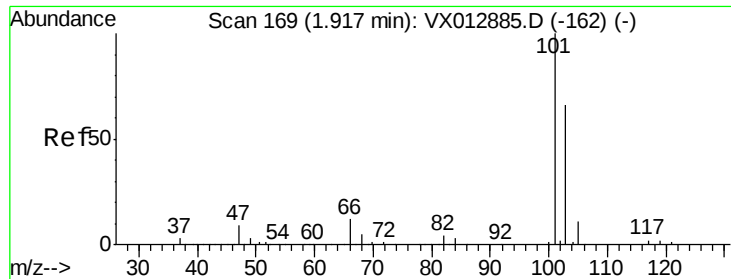
Tgt Ion: 64 Resp: 212

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



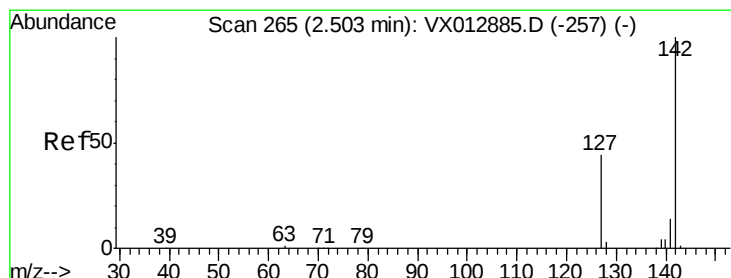
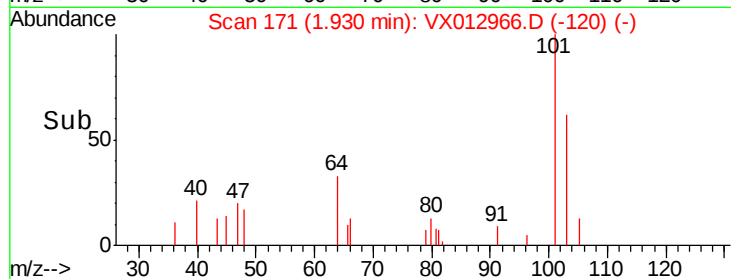
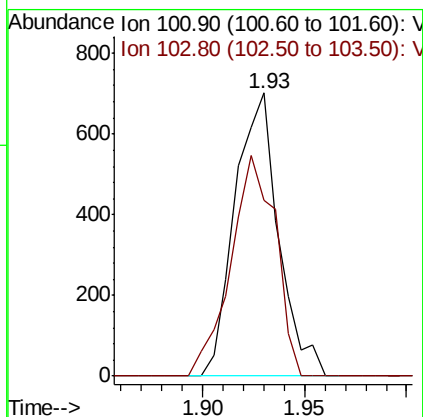
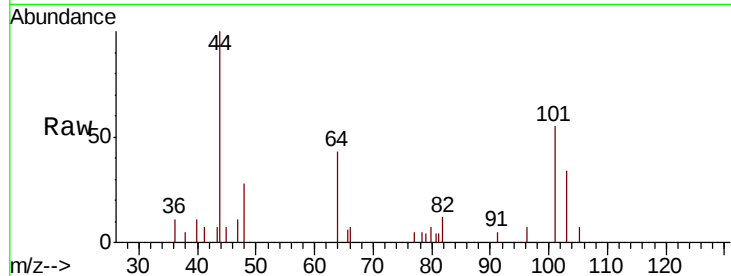


#7

Trichlorofluoromethane
Concen: 0.378 ug/l
RT: 1.93 min Scan# 171
Delta R.T. 0.01 min
Lab File: VX012966.D
Acq: 10 Oct 2019 01:27

Instrument :
MSVOA_X
ClientSampleId :

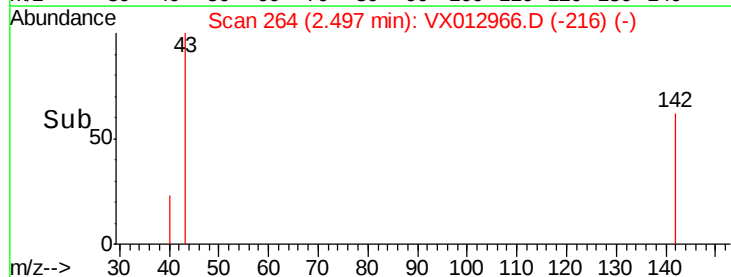
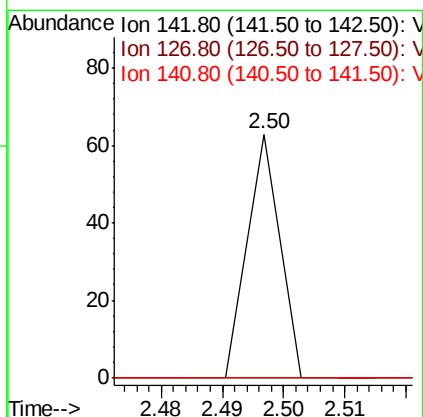
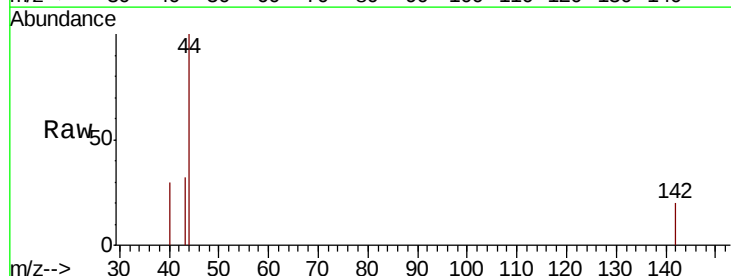
Tot Ion:101 Resp: 1044
Ion Ratio Lower Upper
101 100
103 62.3 52.5 78.7

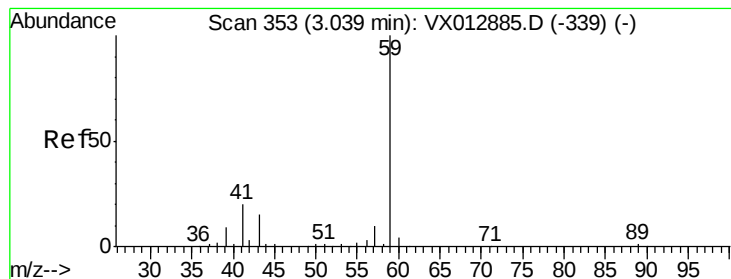


#10

Methyl Iodide
Concen: 5.092 ug/l
RT: 2.50 min Scan# 264
Delta R.T. -0.01 min
Lab File: VX012966.D
Acq: 10 Oct 2019 01:27

Tgt Ion:142 Resp: 23
Ion Ratio Lower Upper
142 100
127 0.0 34.9 52.3#
141 0.0 11.6 17.4#



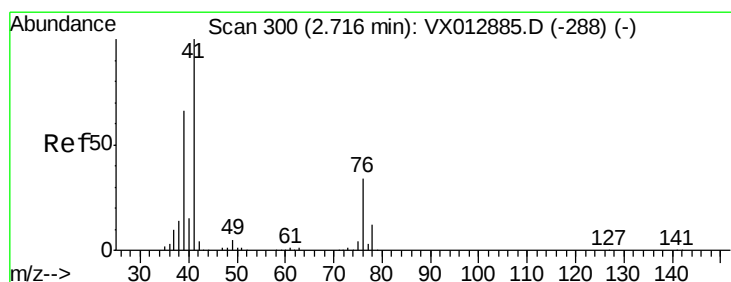
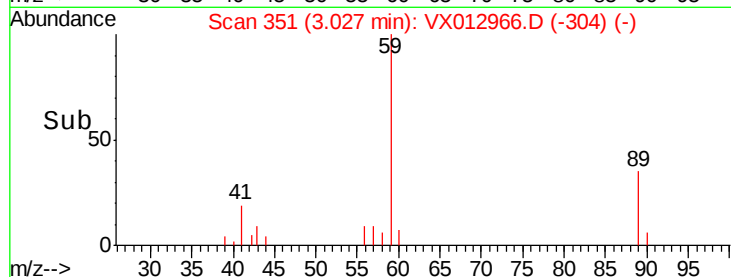
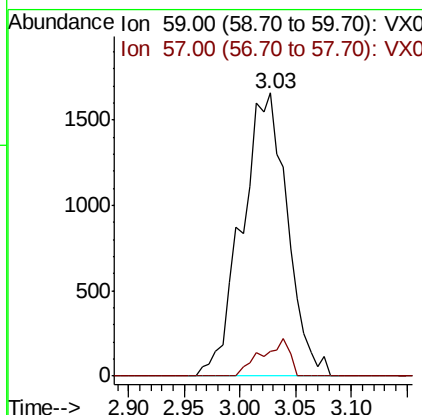
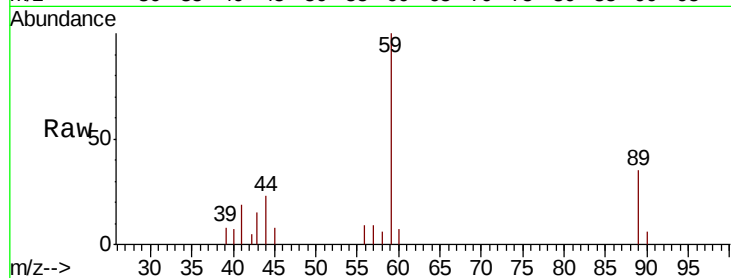


#11

Tert butyl alcohol
 Concen: 7.965 ug/l
 RT: 3.03 min Scan# 351
 Delta R.T. -0.01 min
 Lab File: VX012966.D
 Acq: 10 Oct 2019 01:27

Instrument :
 MSVOA_X
 ClientSampled :

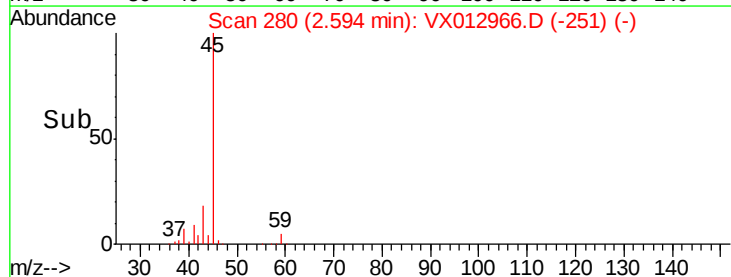
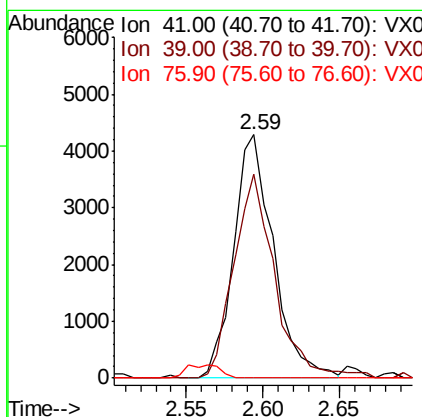
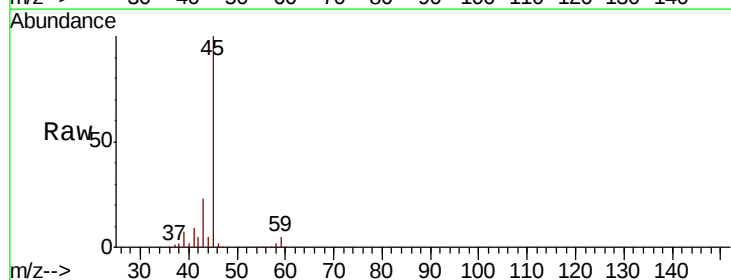
Tot Ion: 59 Resp: 4717
 Ion Ratio Lower Upper
 59 100
 57 8.0 8.3 12.5#

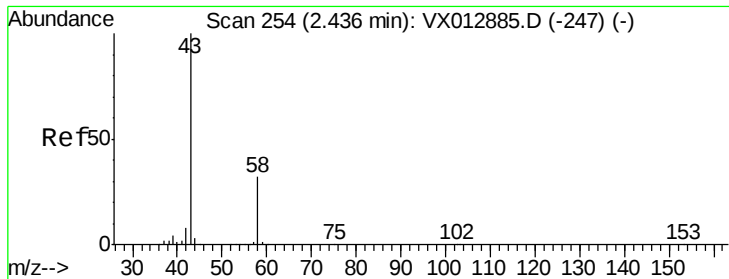


#14

Allyl chloride
 Concen: 2.409 ug/l
 RT: 2.59 min Scan# 280
 Delta R.T. -0.12 min
 Lab File: VX012966.D
 Acq: 10 Oct 2019 01:27

Tgt Ion: 41 Resp: 7750
 Ion Ratio Lower Upper
 41 100
 39 86.5 51.0 76.6#
 76 0.0 26.2 39.4#





#16

Acetone

Concen: 10.989 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012966.D

Acq: 10 Oct 2019 01:27

Instrument :

MSVOA_X

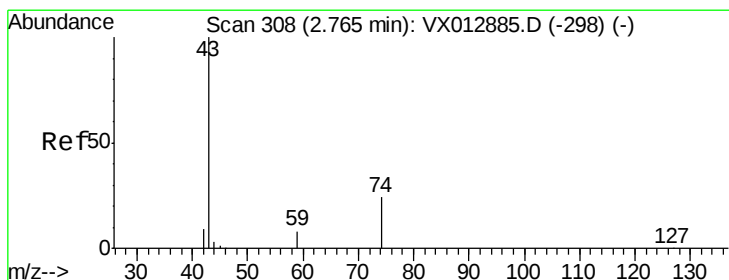
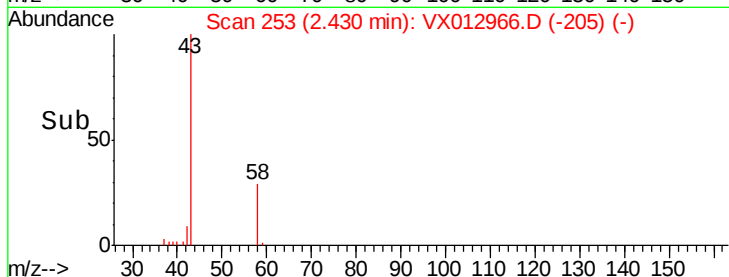
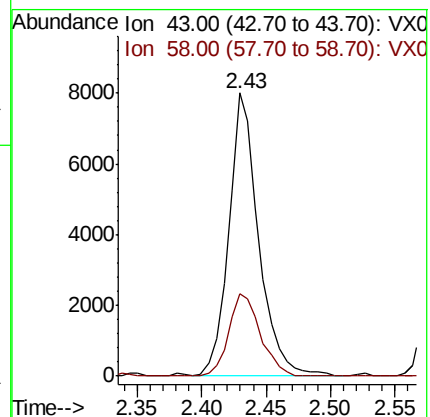
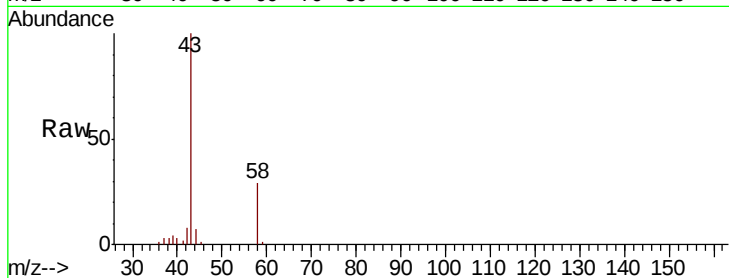
ClientSampled :

Tot Ion: 43 Resp: 12939

Ion Ratio Lower Upper

43 100

58 28.9 25.4 38.2



#18

Methyl Acetate

Concen: 7.452 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012966.D

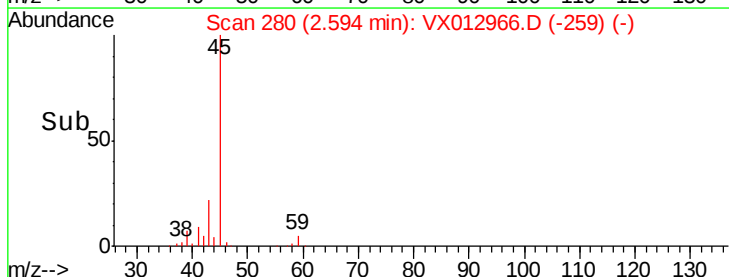
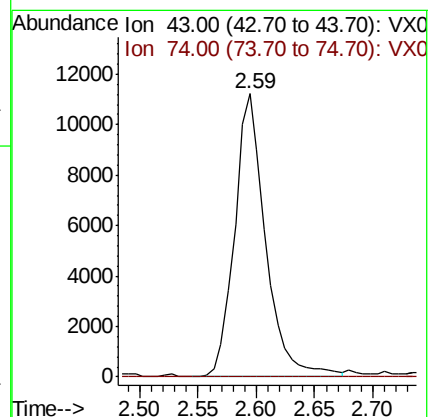
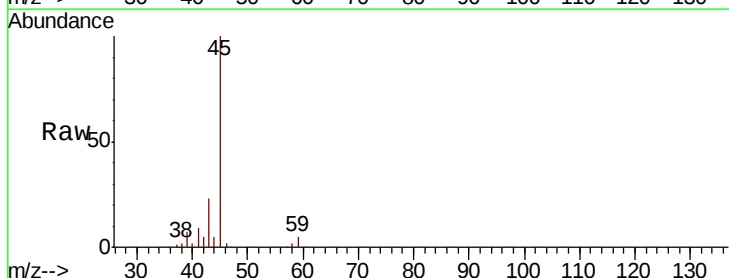
Acq: 10 Oct 2019 01:27

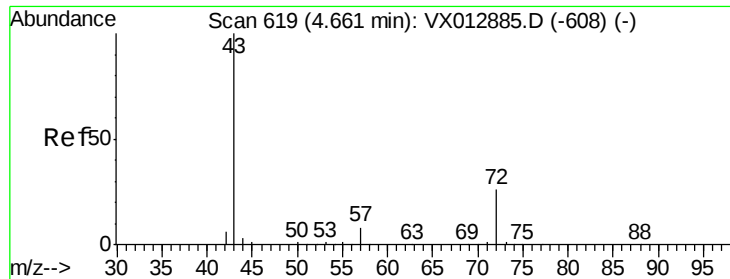
Tgt Ion: 43 Resp: 20797

Ion Ratio Lower Upper

43 100

74 0.0 19.2 28.8#





#25

2-Butanone

Concen: 27.058 ug/l

RT: 4.82 min Scan# 645

Delta R.T. 0.16 min

Lab File: VX012966.D

Acq: 10 Oct 2019 01:27

Instrument :

MSVOA_X

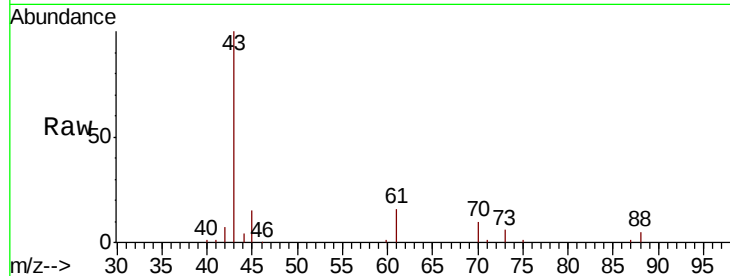
ClientSampleId :

Tot Ion: 43 Resp: 44203

Ion Ratio Lower Upper

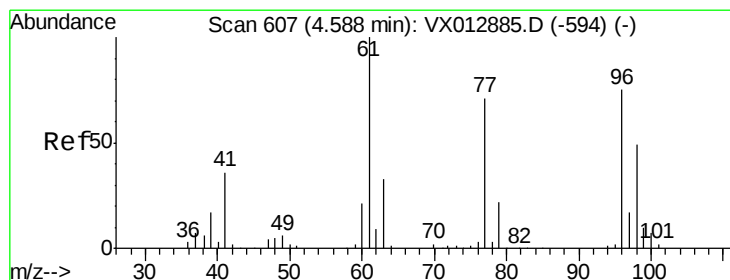
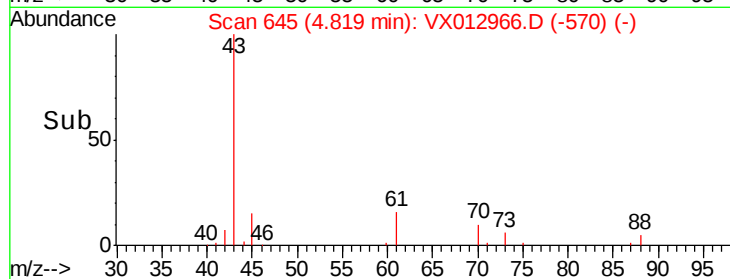
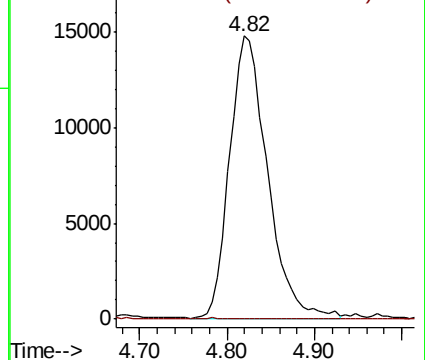
43 100

72 0.0 21.0 31.6#



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: 0.623 ug/l

RT: 4.58 min Scan# 606

Delta R.T. -0.01 min

Lab File: VX012966.D

Acq: 10 Oct 2019 01:27

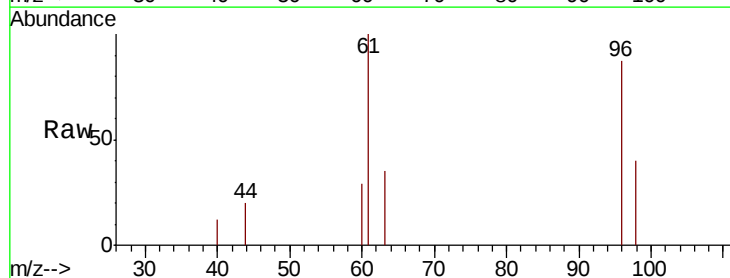
Tgt Ion: 96 Resp: 1391

Ion Ratio Lower Upper

96 100

61 127.0 0.0 290.6

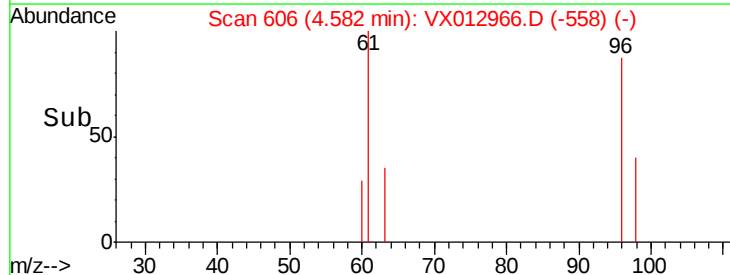
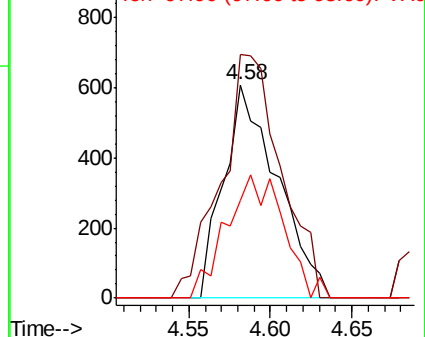
98 62.1 0.0 128.8

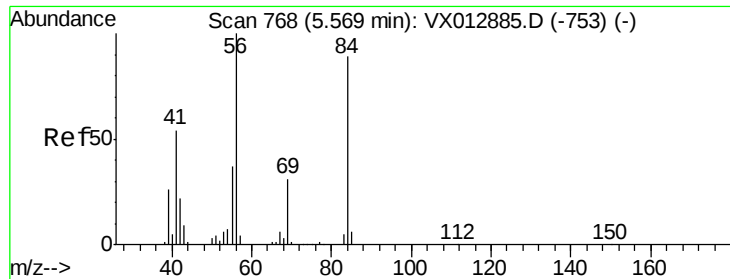


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

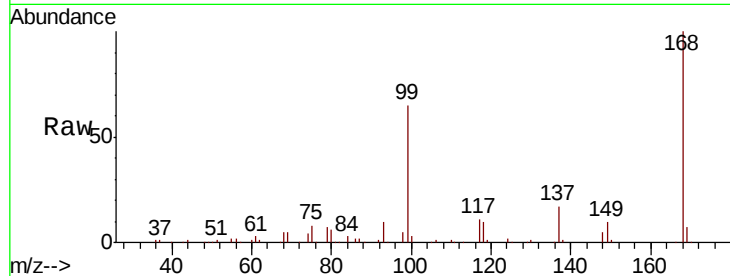




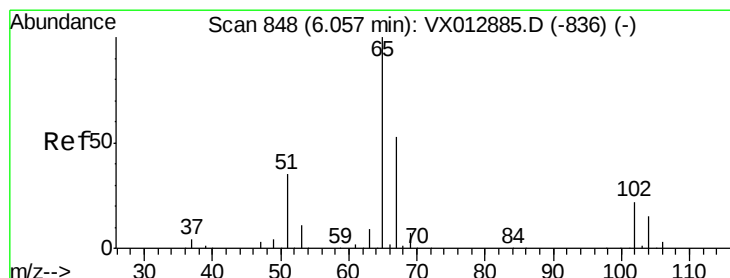
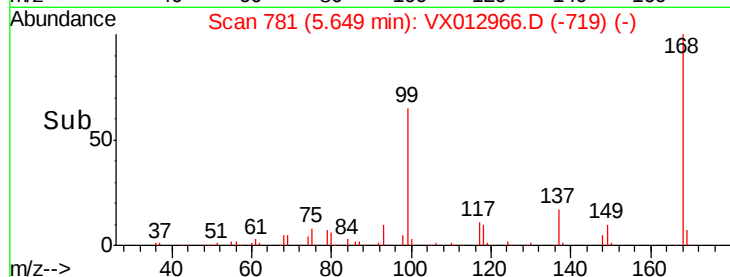
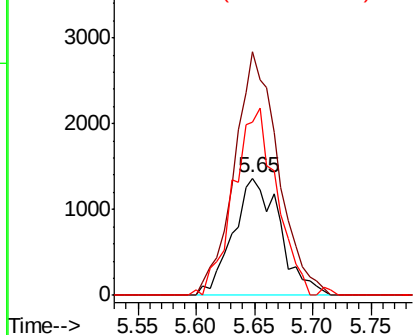
#31
Cyclohexane
Concen: 1.185 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX012966.D
Acq: 10 Oct 2019 01:27

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 56 Resp: 3843
Ion Ratio Lower Upper
56 100
69 208.2 25.2 37.8#
84 147.9 71.3 106.9#

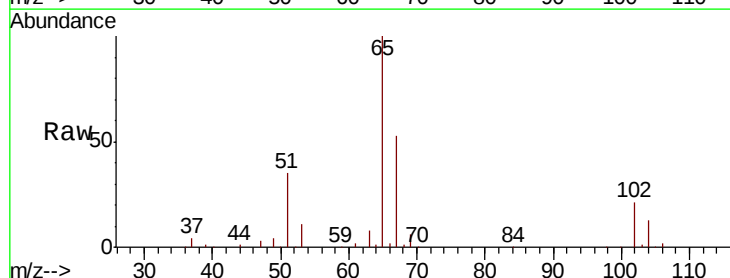


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

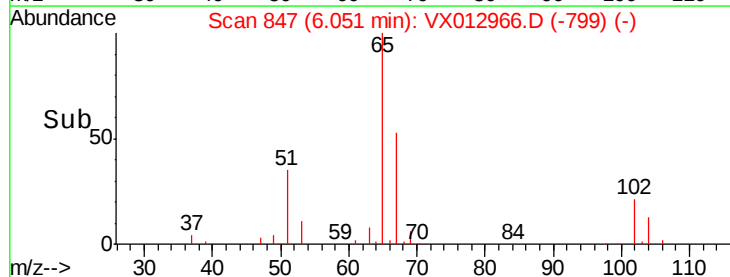
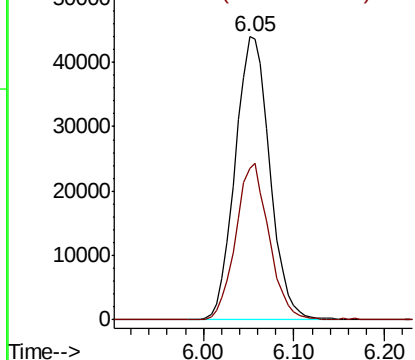


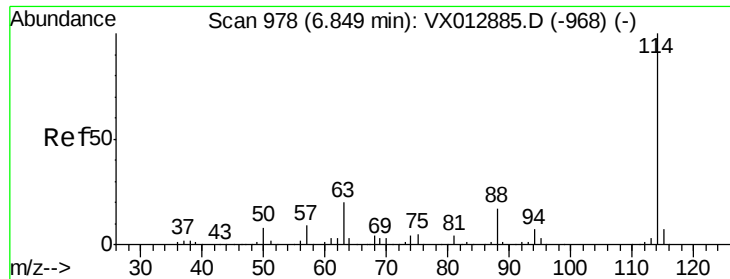
#33
1,2-Dichloroethane-d4
Concen: 52.263 ug/l
RT: 6.05 min Scan# 847
Delta R.T. -0.01 min
Lab File: VX012966.D
Acq: 10 Oct 2019 01:27

Tgt Ion: 65 Resp: 116750
Ion Ratio Lower Upper
65 100
67 53.0 0.0 104.4



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

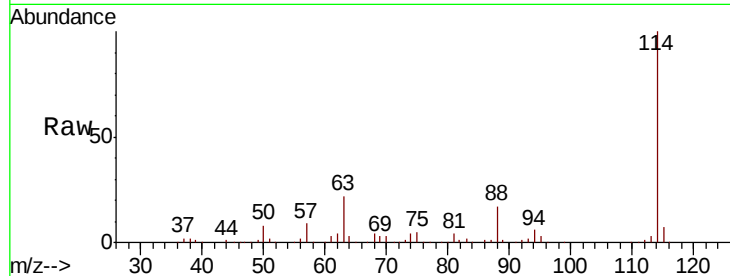




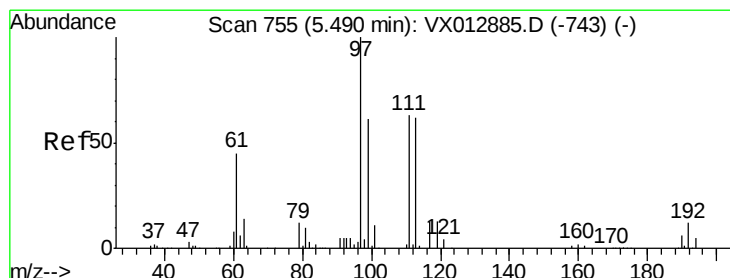
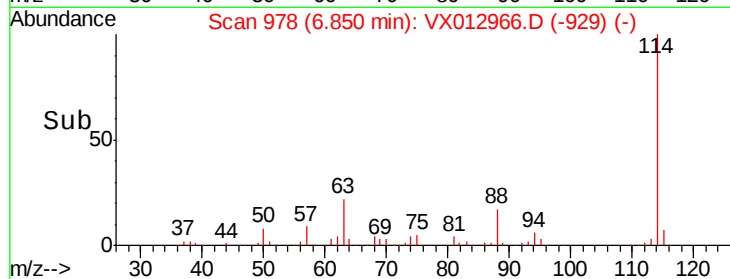
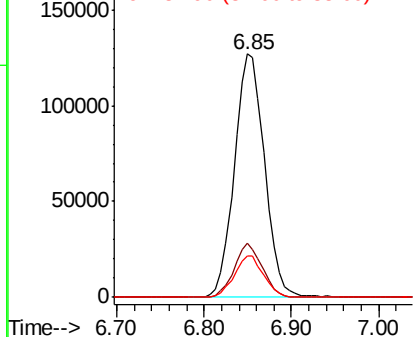
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.85 min Scan# 978
 Delta R.T. 0.00 min
 Lab File: VX012966.D
 Acq: 10 Oct 2019 01:27

Instrument :
 MSVOA_X
 ClientSampleId :

Tot Ion:114 Resp: 303723
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 40.8
 88 17.1 0.0 33.8

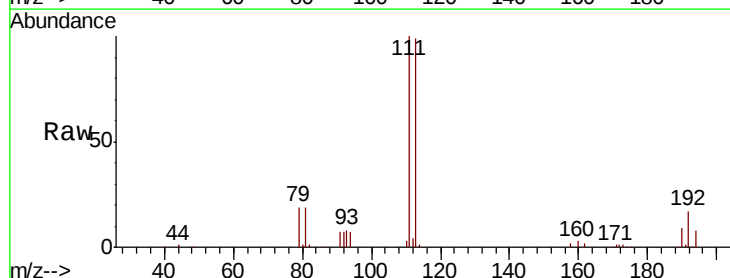


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

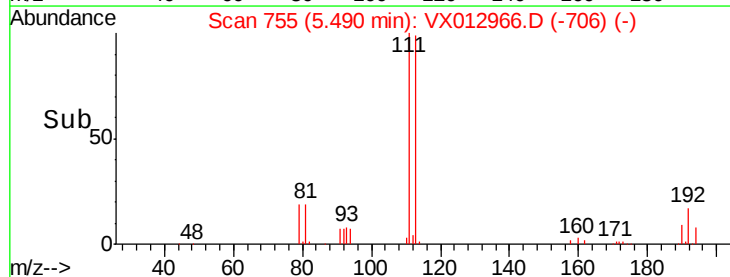
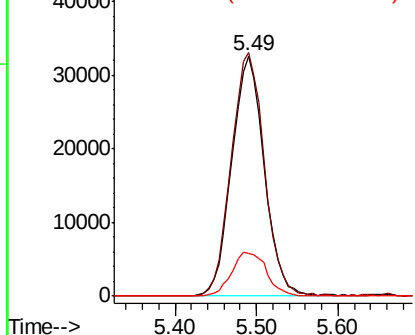


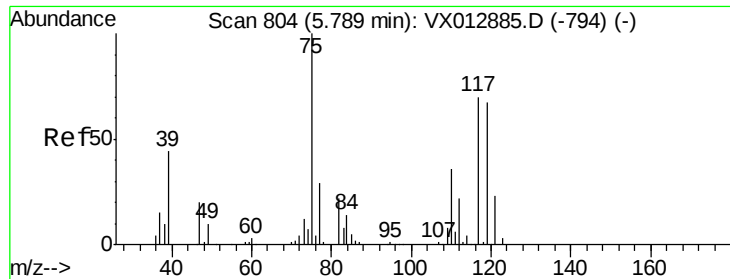
#35
 Dibromofluoromethane
 Concen: 51.646 ug/l
 RT: 5.49 min Scan# 755
 Delta R.T. 0.00 min
 Lab File: VX012966.D
 Acq: 10 Oct 2019 01:27

Tgt Ion:113 Resp: 90029
 Ion Ratio Lower Upper
 113 100
 111 103.2 83.2 124.8
 192 19.5 15.4 23.2



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

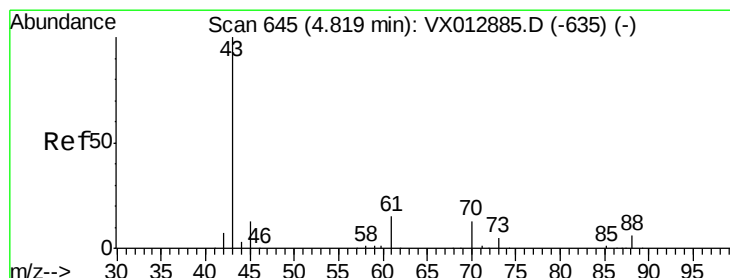
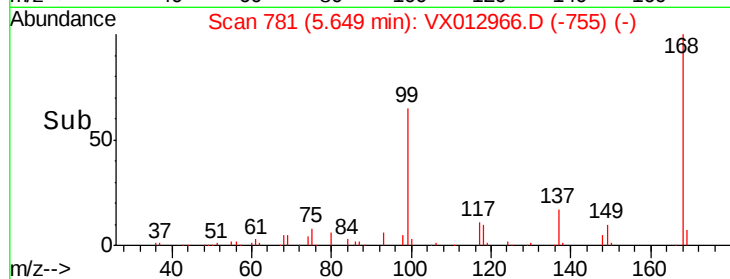
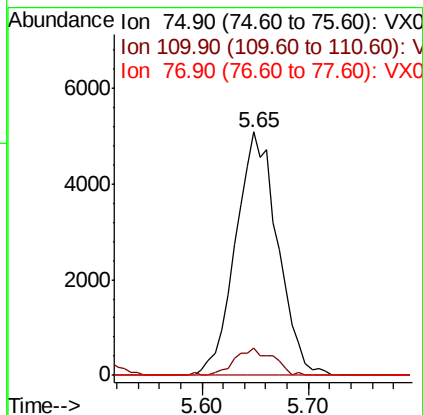
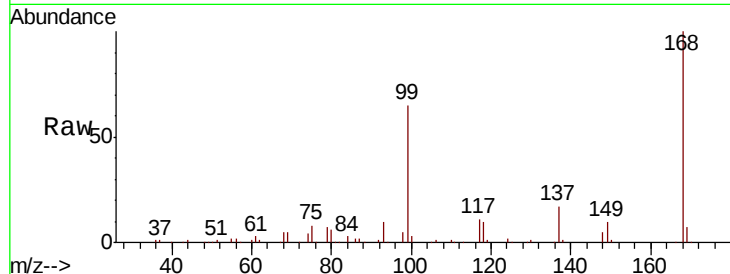




#36
 1,1-Dichloropropene
 Concen: 5.277 ug/l
 RT: 5.65 min Scan# 781
 Delta R.T. -0.14 min
 Lab File: VX012966.D
 Acq: 10 Oct 2019 01:27

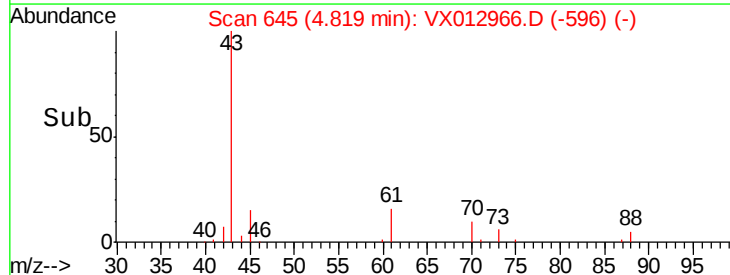
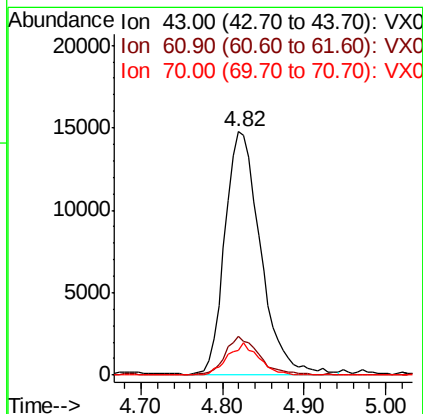
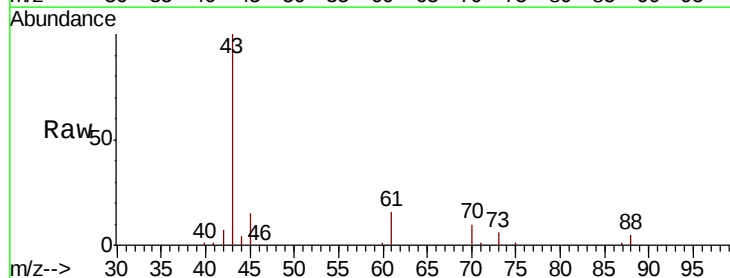
Instrument :
 MSVOA_X
 ClientSampleId :

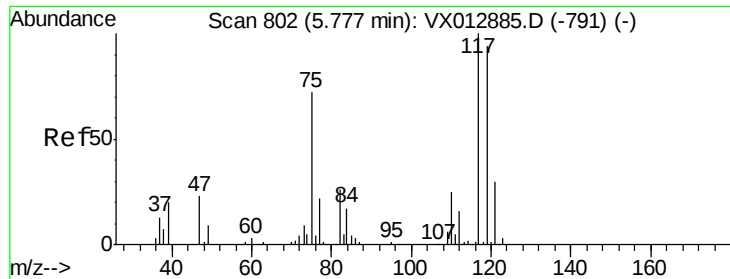
Tot Ion: 75 Resp: 14091
 Ion Ratio Lower Upper
 75 100
 110 10.1 17.6 52.9#
 77 0.0 24.4 36.6#



#37
 Ethyl Acetate
 Concen: 14.909 ug/l
 RT: 4.82 min Scan# 645
 Delta R.T. 0.00 min
 Lab File: VX012966.D
 Acq: 10 Oct 2019 01:27

Tgt Ion: 43 Resp: 44518
 Ion Ratio Lower Upper
 43 100
 61 15.0 11.4 17.0
 70 11.7 9.8 14.6

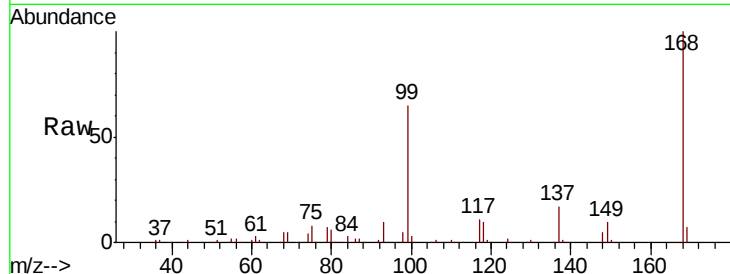




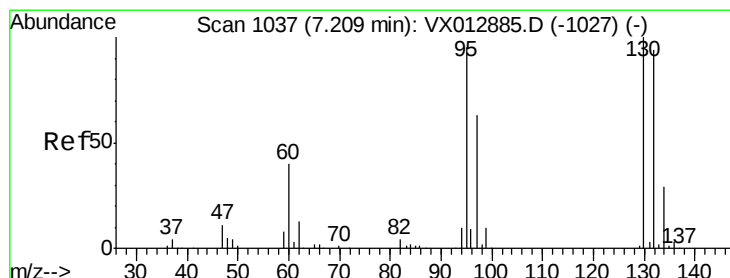
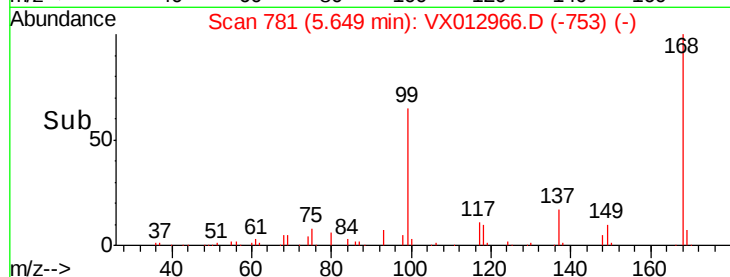
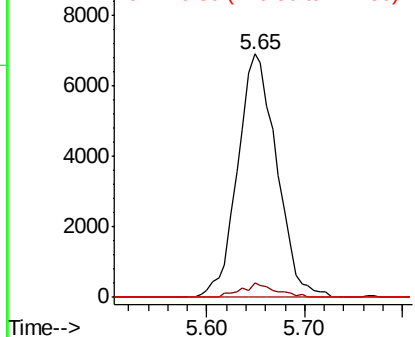
#38
Carbon Tetrachloride
Concen: 7.332 ug/l
RT: 5.65 min Scan# 781
Delta R.T. -0.13 min
Lab File: VX012966.D
Acq: 10 Oct 2019 01:27

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 19058
Ion Ratio Lower Upper
117 100
119 6.1 74.5 111.7#
121 0.0 24.2 36.4#

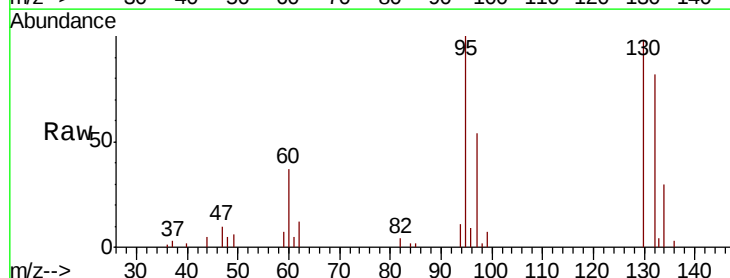


Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V

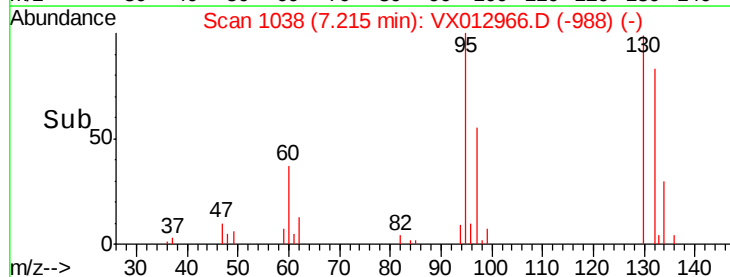
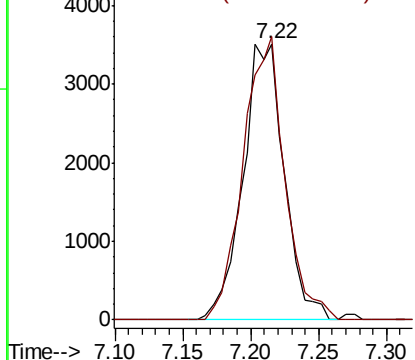


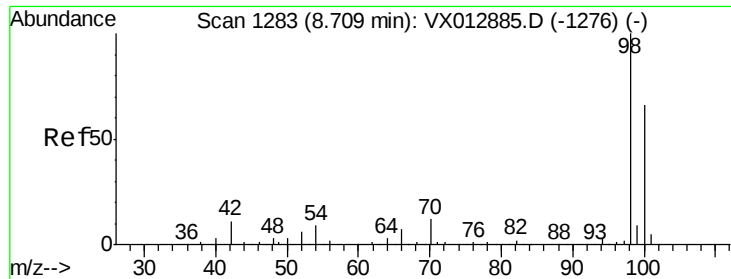
#44
Trichloroethene
Concen: 3.432 ug/l
RT: 7.22 min Scan# 1038
Delta R.T. 0.01 min
Lab File: VX012966.D
Acq: 10 Oct 2019 01:27

Tgt Ion:130 Resp: 7505
Ion Ratio Lower Upper
130 100
95 102.5 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V
Ion 94.90 (94.60 to 95.60): V

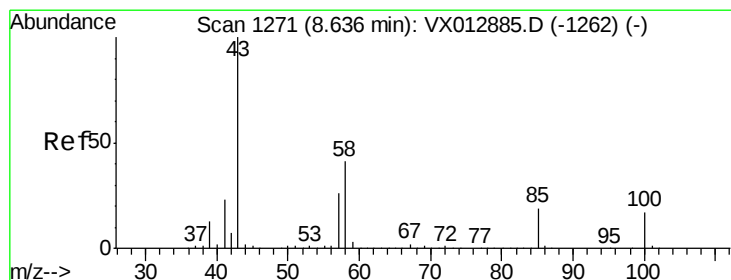
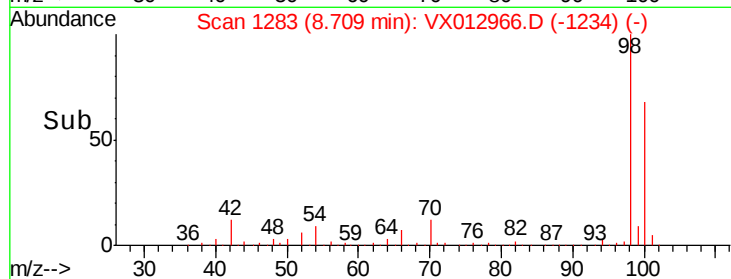
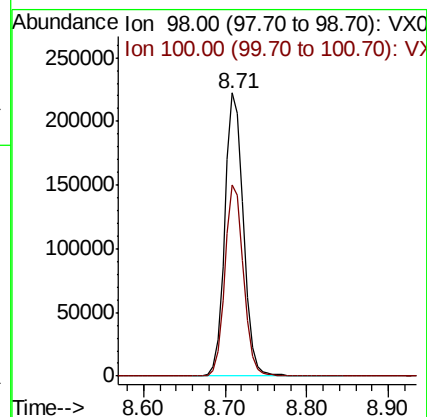
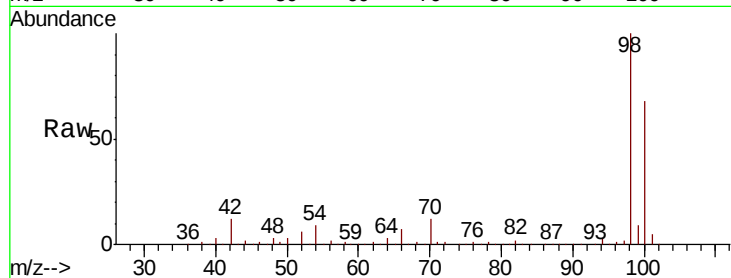




#50
Toluene-d8
Concen: 51.974 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.00 min
Lab File: VX012966.D
Acq: 10 Oct 2019 01:27

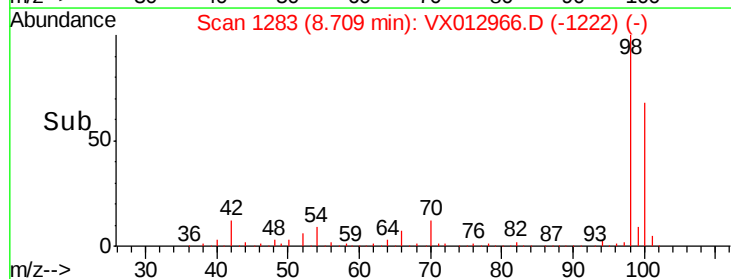
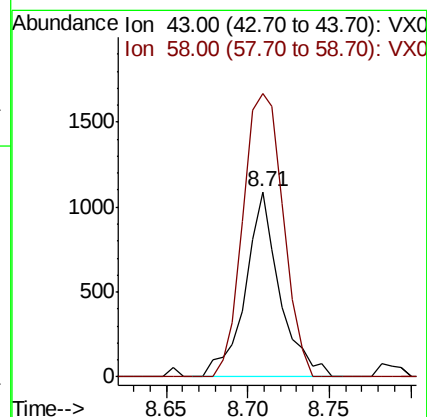
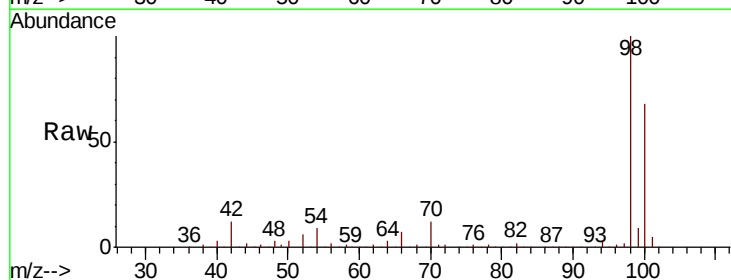
Instrument :
MSVOA_X
ClientSampleId :

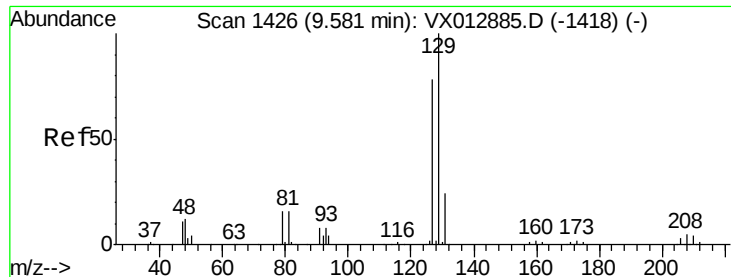
Tot Ion: 98 Resp: 353371
Ion Ratio Lower Upper
98 100
100 67.3 53.4 80.2



#51
4-Methyl-2-Pentanone
Concen: 0.537 ug/l
RT: 8.71 min Scan# 1283
Delta R.T. 0.07 min
Lab File: VX012966.D
Acq: 10 Oct 2019 01:27

Tgt Ion: 43 Resp: 1605
Ion Ratio Lower Upper
43 100
58 178.0 32.4 48.6#





#60

Dibromochloromethane

Concen: 6.515 ug/l

RT: 9.33 min Scan# 1385

Delta R.T. -0.25 min

Lab File: VX012966.D

Acq: 10 Oct 2019 01:27

Instrument :

MSVOA_X

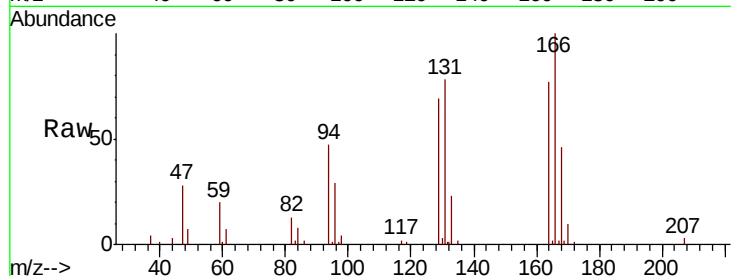
ClientSampled :

Tot Ion:129 Resp: 10750

Ion Ratio Lower Upper

129 100

127 0.0 38.9 116.7#



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

9.33

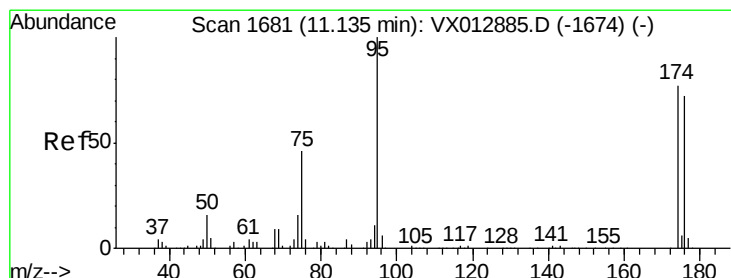
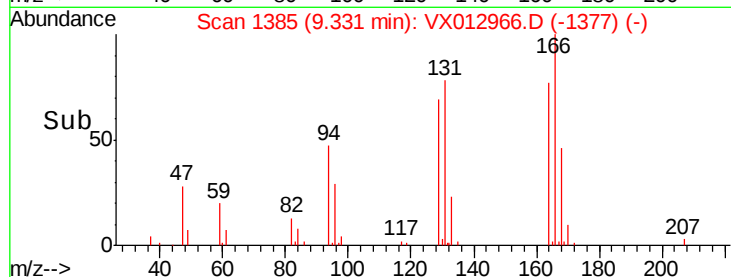
6000

4000

2000

0

Time--> 9.25 9.30 9.35 9.40



#62

4-Bromofluorobenzene

Concen: 45.352 ug/l

RT: 11.14 min Scan# 1681

Delta R.T. 0.00 min

Lab File: VX012966.D

Acq: 10 Oct 2019 01:27

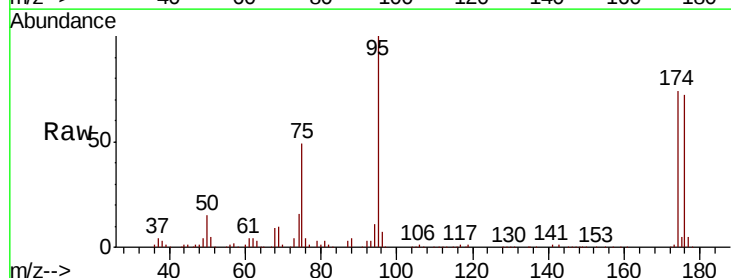
Tgt Ion: 95 Resp: 119811

Ion Ratio Lower Upper

95 100

174 72.2 0.0 143.4

176 70.1 0.0 136.0



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

11.14

120000

100000

80000

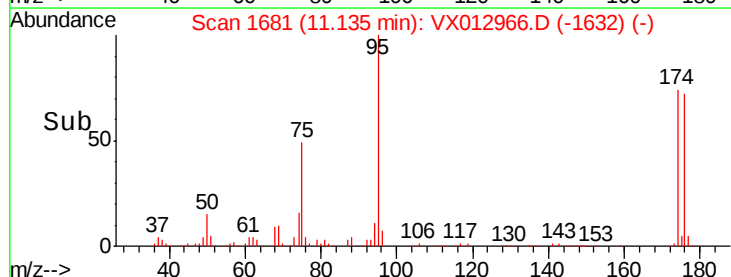
60000

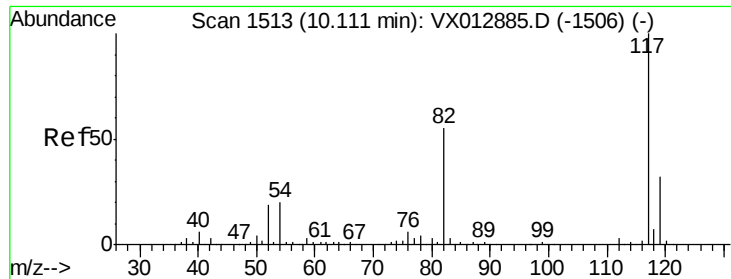
40000

20000

0

Time--> 11.10 11.20

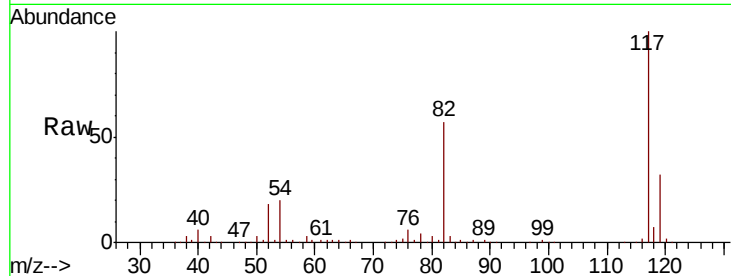




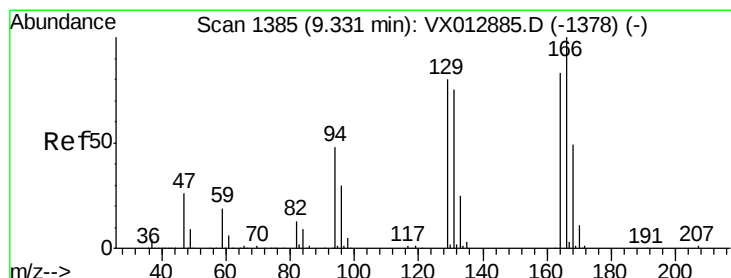
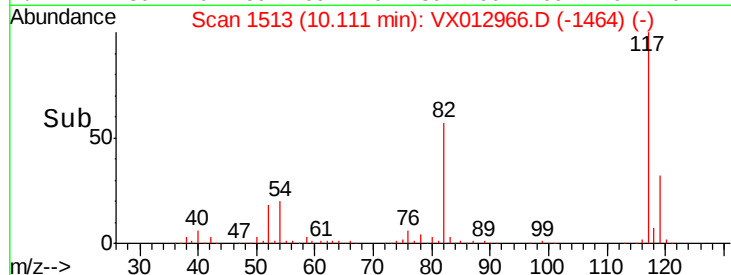
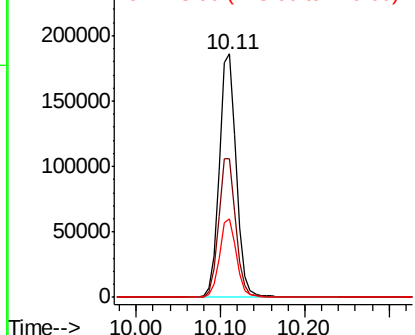
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VX012966.D
Acq: 10 Oct 2019 01:27

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 259577
Ion Ratio Lower Upper
117 100
82 57.1 44.1 66.1
119 32.0 25.8 38.8



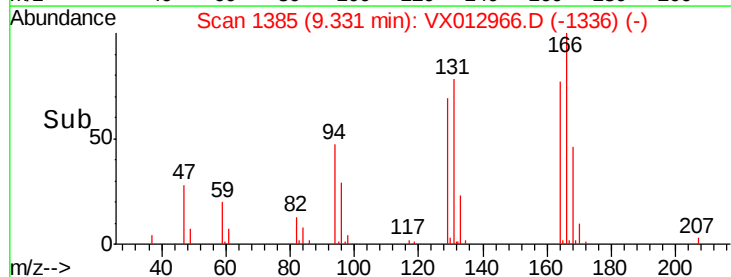
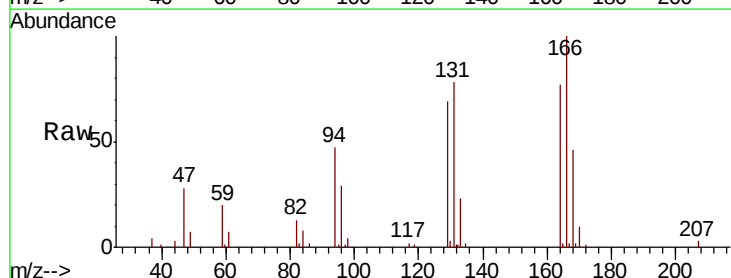
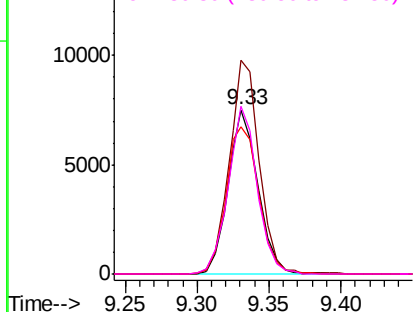
Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

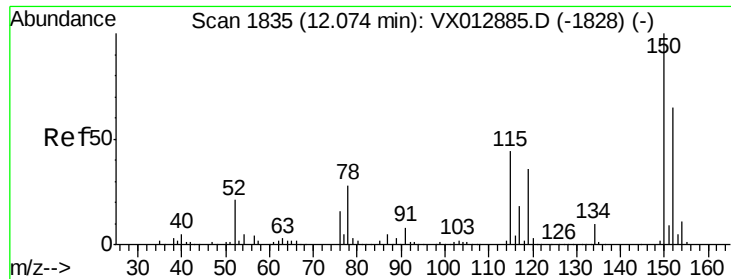


#64
Tetrachloroethene
Concen: 6.058 ug/l
RT: 9.33 min Scan# 1385
Delta R.T. 0.00 min
Lab File: VX012966.D
Acq: 10 Oct 2019 01:27

Tgt Ion:164 Resp: 10907
Ion Ratio Lower Upper
164 100
166 130.0 96.9 145.3
129 89.9 77.9 116.9
131 101.7 72.7 109.1

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





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.07 min Scan# 1835

Delta R.T. 0.00 min

Lab File: VX012966.D

Acq: 10 Oct 2019 01:27

Instrument :

MSVOA_X

ClientSampleId :

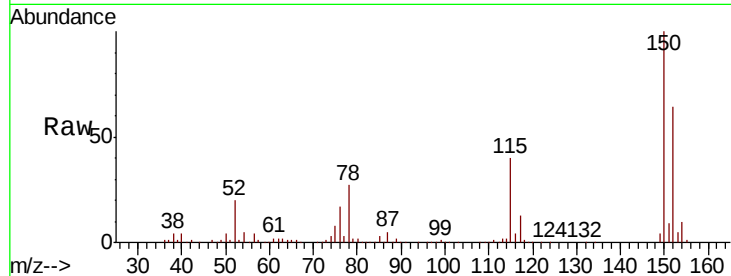
Tot Ion:152 Resp: 102378

Ion Ratio Lower Upper

152 100

115 63.5 44.5 133.5

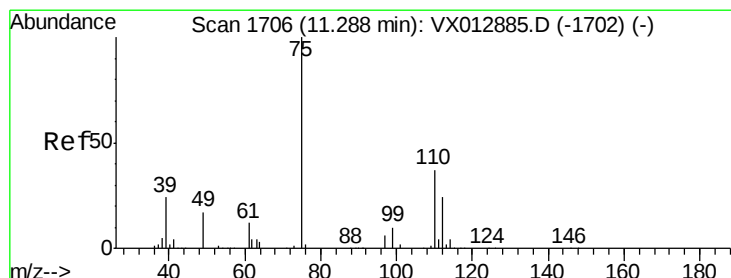
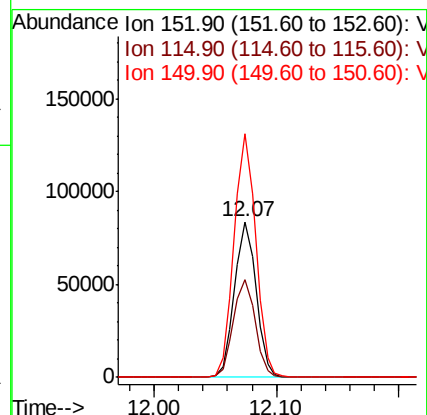
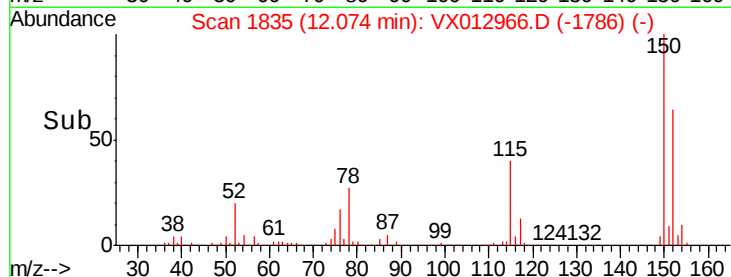
150 157.3 0.0 353.4



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: 26.541 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012966.D

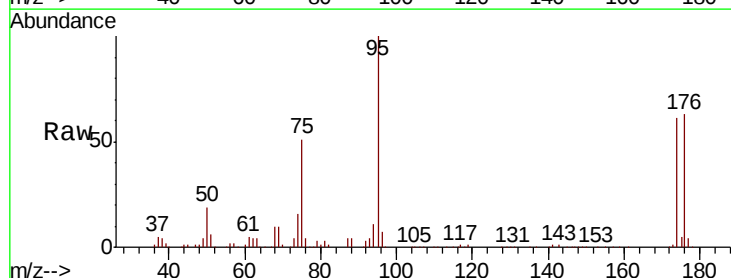
Acq: 10 Oct 2019 01:27

Tgt Ion: 75 Resp: 60267

Ion Ratio Lower Upper

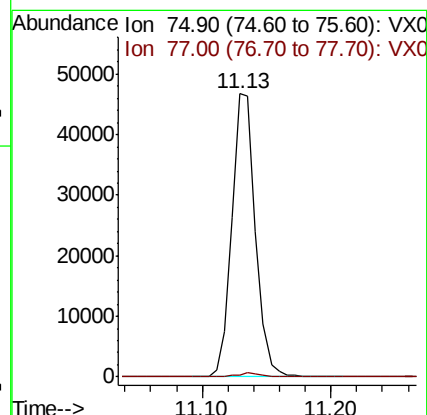
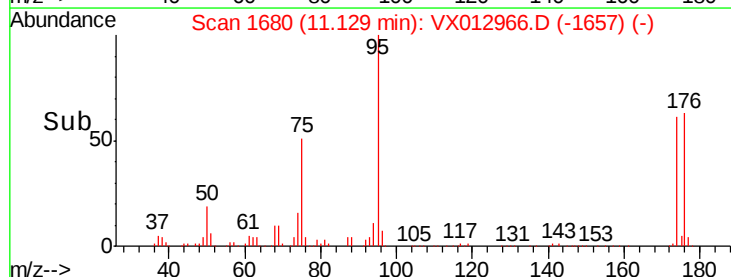
75 100

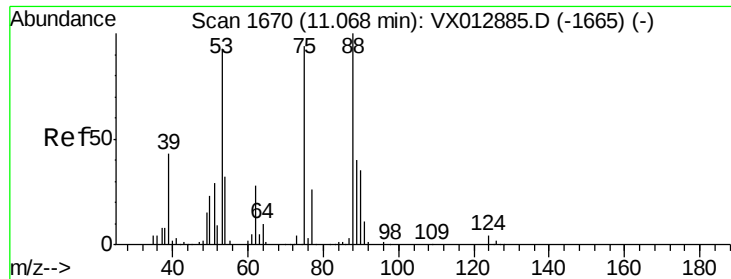
77 1.3 22.9 68.8#



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: 66.758 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012966.D

Acq: 10 Oct 2019 01:27

Instrument :

MSVOA_X

ClientSampleId :

Tot Ion: 75 Resp: 60267

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#

