

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX100919\
 Data File : VX012967.D
 Acq On : 10 Oct 2019 01:50
 Operator : JC/SP
 Sample : K5260-10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 10 06:49:23 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	171507	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.85	114	286380	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	248578	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.07	152	95524	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	113142	52.78	ug/l	0.00
Spiked Amount			Recovery	=	105.56%	
35) Dibromofluoromethane	5.49	113	81571	49.63	ug/l	0.00
Spiked Amount			Recovery	=	99.26%	
50) Toluene-d8	8.71	98	344096	53.68	ug/l	0.00
Spiked Amount			Recovery	=	107.36%	
62) 4-Bromofluorobenzene	11.13	95	114614	46.01	ug/l	0.00
Spiked Amount			Recovery	=	92.02%	

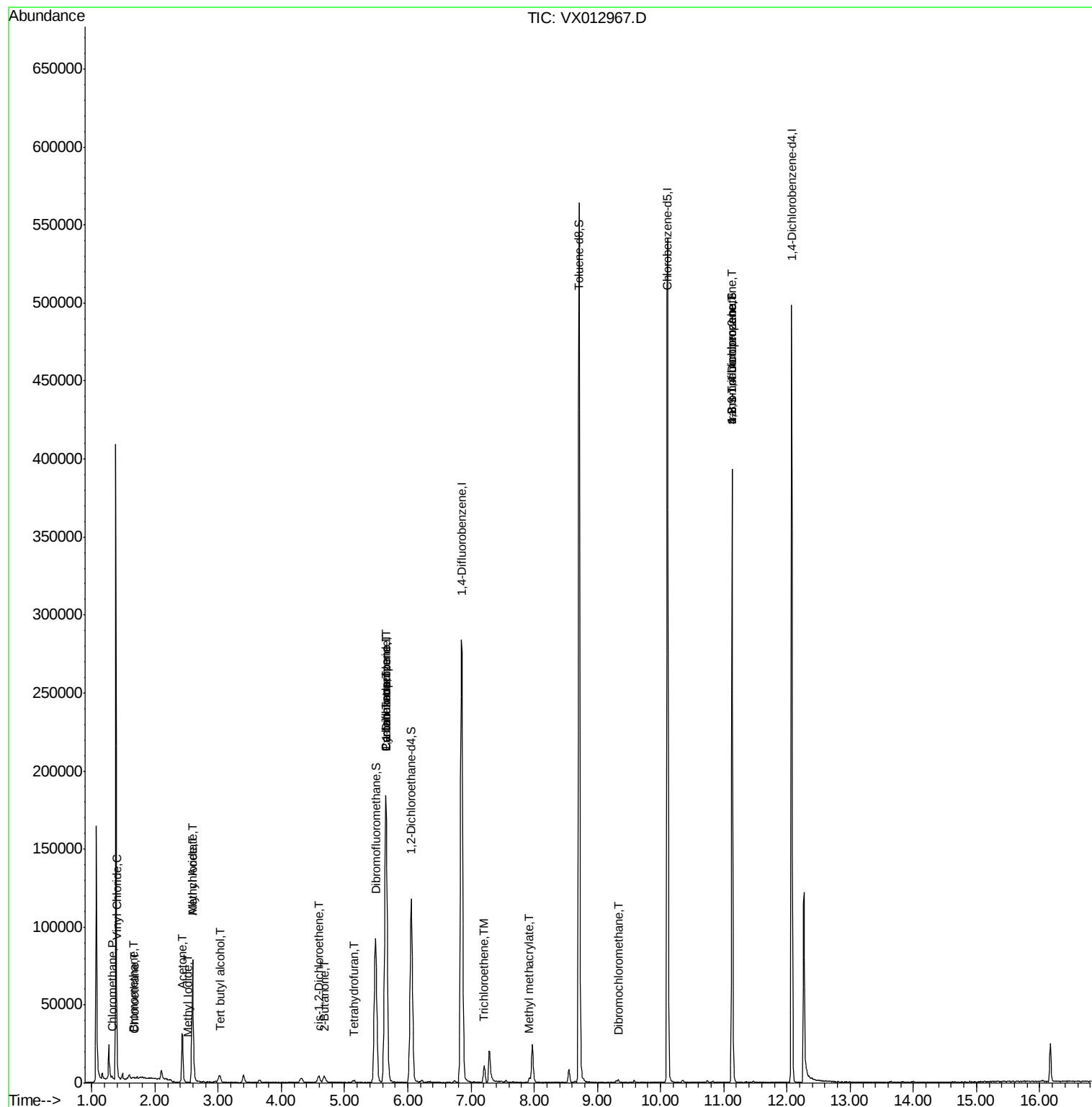
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	860	0.452	ug/l	99
4) Vinyl Chloride	1.40	62	898	0.457	ug/l	93
5) Bromomethane	1.66	94	354	0.434	ug/l #	3
6) Chloroethane	1.68	64	296	0.613	ug/l #	43
10) Methyl Iodide	2.51	142	37	5.099	ug/l #	40
11) Tert butyl alcohol	3.02	59	5438	9.570	ug/l #	91
14) Allyl chloride	2.59	41	7362	2.385	ug/l #	61
16) Acetone	2.43	43	31456	27.840	ug/l	93
18) Methyl Acetate	2.59	43	19363	7.230	ug/l #	51
25) 2-Butanone	4.68	43	4192	2.674	ug/l	92
27) cis-1,2-Dichloroethene	4.59	96	2840	1.326	ug/l	91
29) Tetrahydrofuran	5.15	42	736	0.763	ug/l #	49
31) Cyclohexane	5.65	56	3706	1.191	ug/l #	22
36) 1,1-Dichloropropene	5.65	75	13265	5.268	ug/l #	51
38) Carbon Tetrachloride	5.65	117	17973	7.334	ug/l #	17
44) Trichloroethene	7.20	130	4317	2.093	ug/l	91
48) Methyl methacrylate	7.92	41	1443	0.655	ug/l #	26
60) Dibromochloromethane	9.34	129	61	1.885	ug/l #	10
76) 1,2,3-Trichloropropane	11.13	75	57753	27.259	ug/l #	32
81) trans-1,4-Dichloro-2-buten	11.13	75	57753	68.453	ug/l #	10

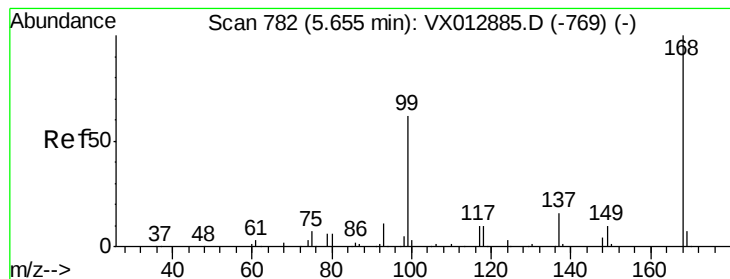
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
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: VX012967.D

Acq: 10 Oct 2019 01:50

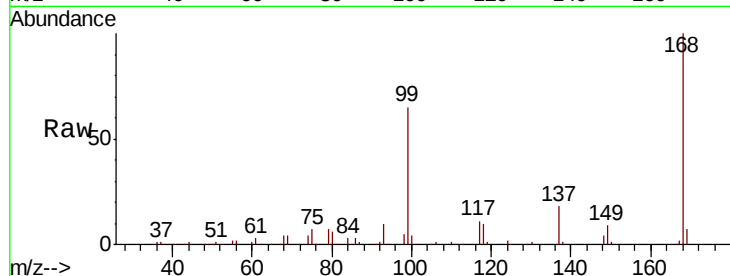
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:168 Resp: 171507

Ion Ratio Lower Upper

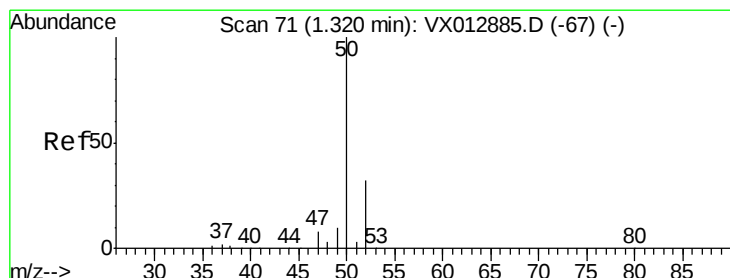
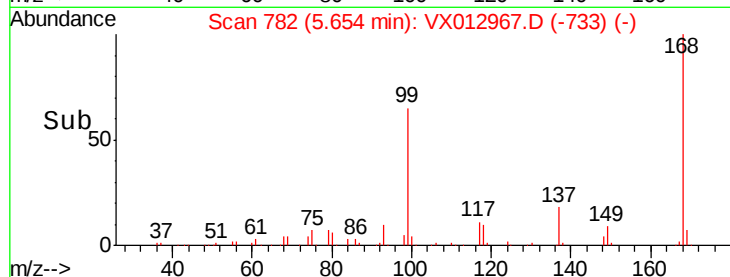
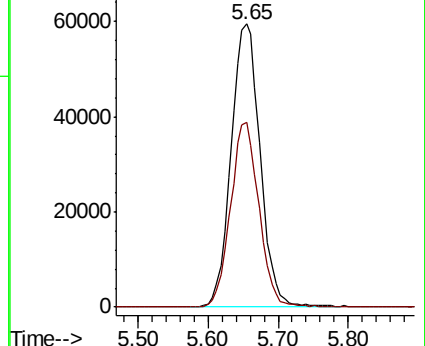
168 100

99 65.5 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: 0.452 ug/l

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VX012967.D

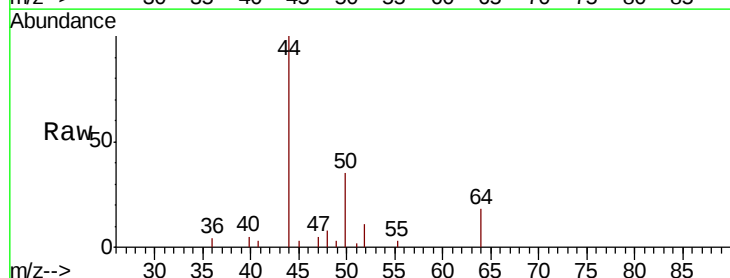
Acq: 10 Oct 2019 01:50

Tgt Ion: 50 Resp: 860

Ion Ratio Lower Upper

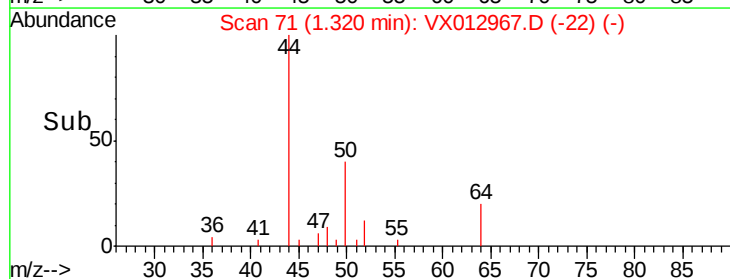
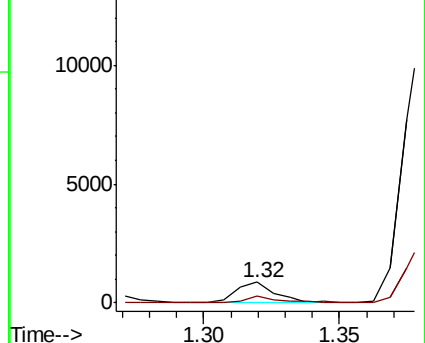
50 100

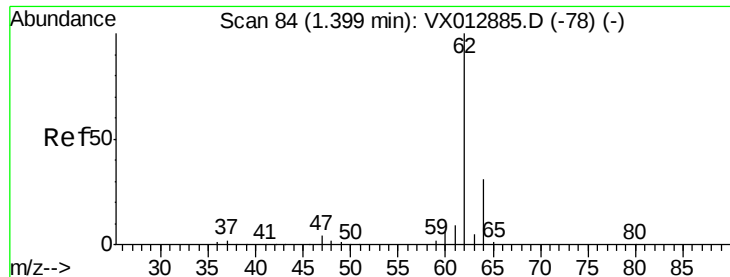
52 30.9 25.2 37.8



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0





#4

Vinyl Chloride

Concen: 0.457 ug/l

RT: 1.40 min Scan# 84

Delta R.T. -0.00 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

Instrument :

MSVOA_X

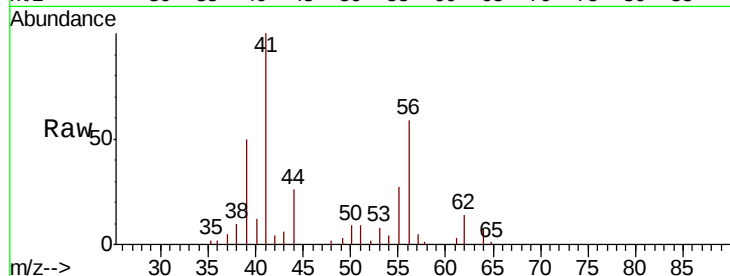
ClientSampled :

Tot Ion: 62 Resp: 898

Ion Ratio Lower Upper

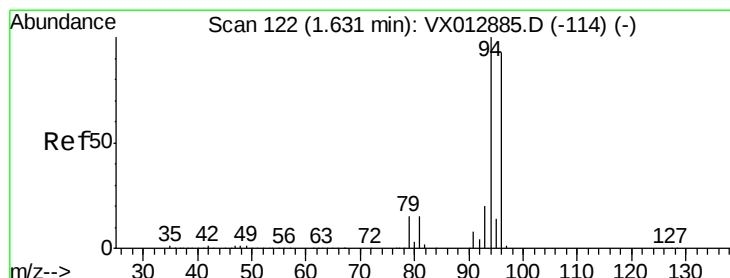
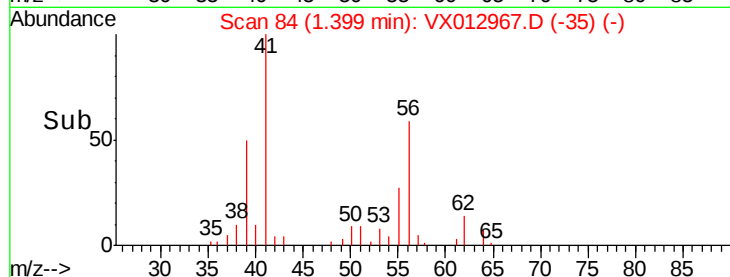
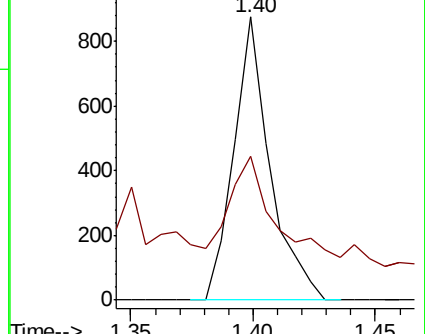
62 100

64 35.5 25.3 37.9



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0



#5

Bromomethane

Concen: 0.434 ug/l

RT: 1.66 min Scan# 127

Delta R.T. 0.03 min

Lab File: VX012967.D

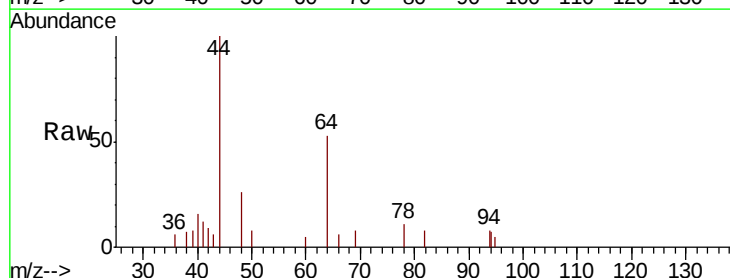
Acq: 10 Oct 2019 01:50

Tgt Ion: 94 Resp: 354

Ion Ratio Lower Upper

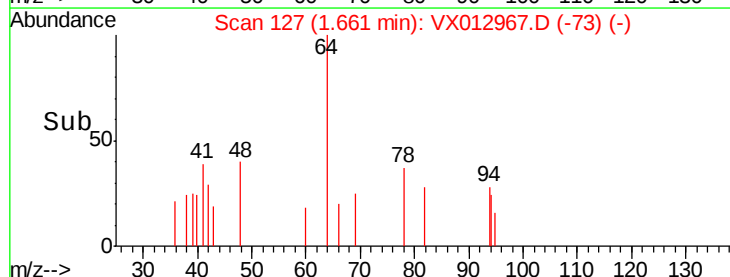
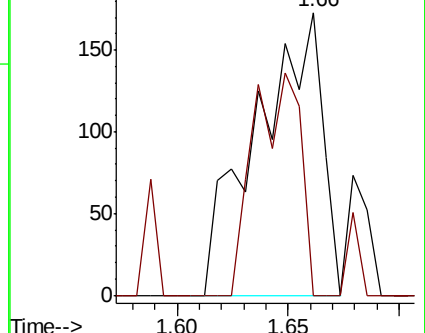
94 100

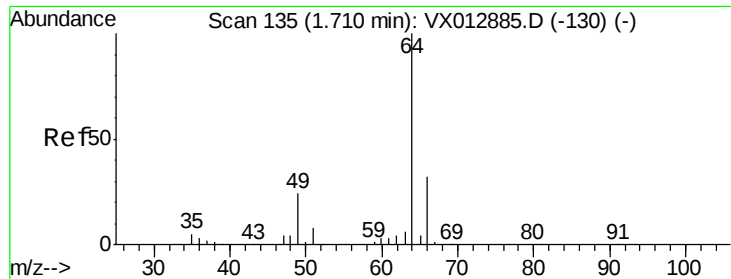
96 0.0 74.7 112.1#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 0.613 ug/l

RT: 1.68 min Scan# 130

Delta R.T. -0.03 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

Instrument :

MSVOA_X

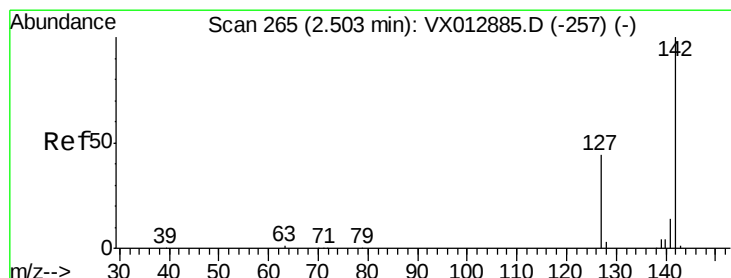
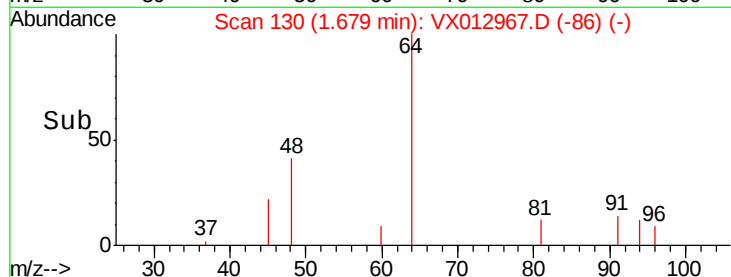
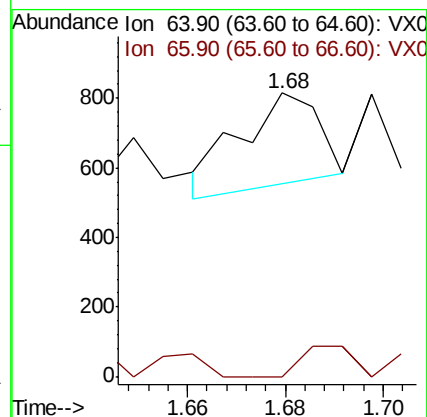
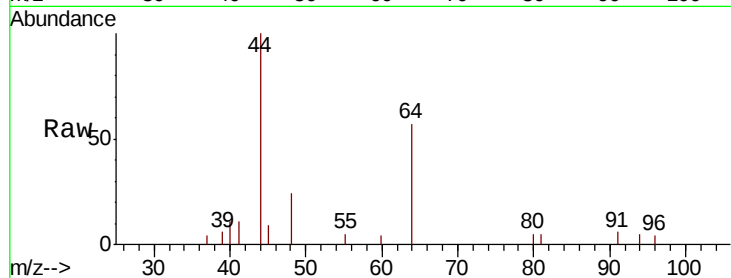
ClientSampleId :

Tot Ion: 64 Resp: 296

Ion Ratio Lower Upper

64 100

66 0.0 25.6 38.4#



#10

Methyl Iodide

Concen: 5.099 ug/l

RT: 2.51 min Scan# 266

Delta R.T. 0.01 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

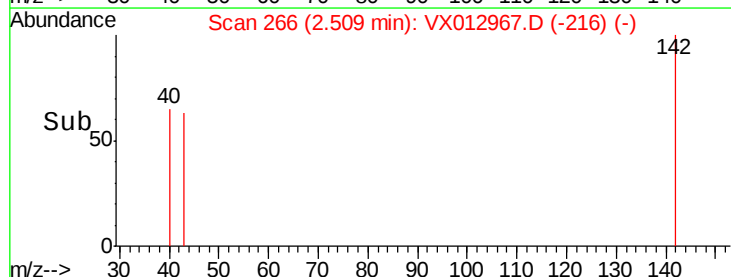
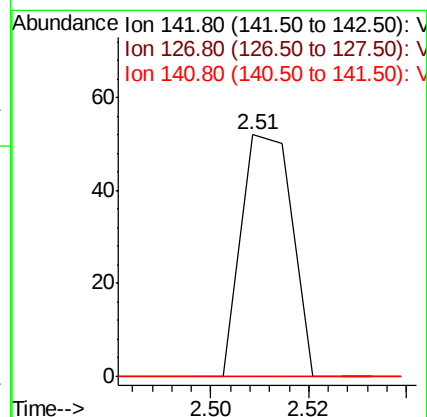
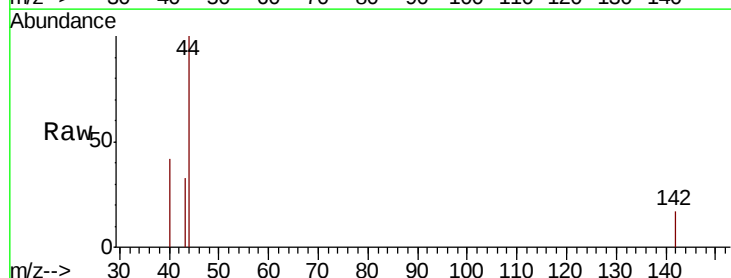
Tgt Ion: 142 Resp: 37

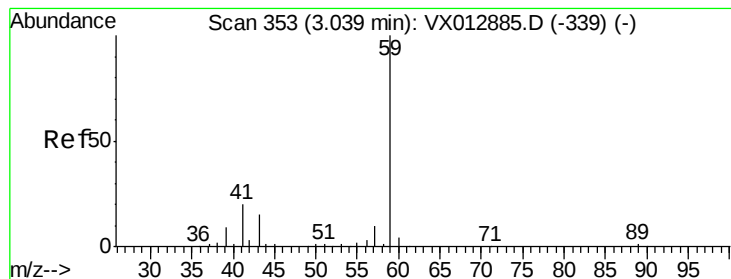
Ion Ratio Lower Upper

142 100

127 0.0 34.9 52.3#

141 0.0 11.6 17.4#



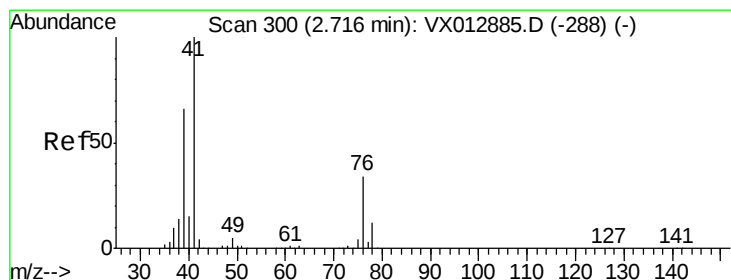
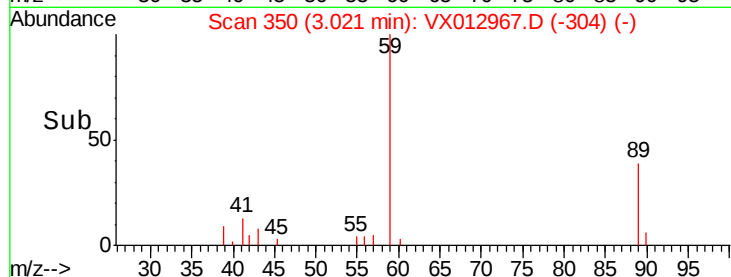
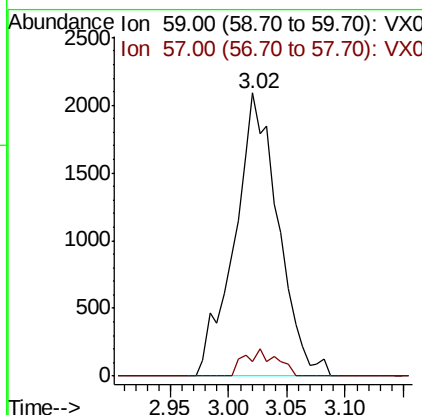
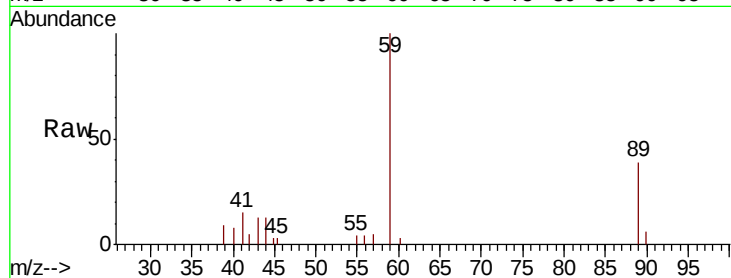


#11

Tert butyl alcohol
 Concen: 9.570 ug/l
 RT: 3.02 min Scan# 350
 Delta R.T. -0.02 min
 Lab File: VX012967.D
 Acq: 10 Oct 2019 01:50

Instrument :
 MSVOA_X
 ClientSampleId :

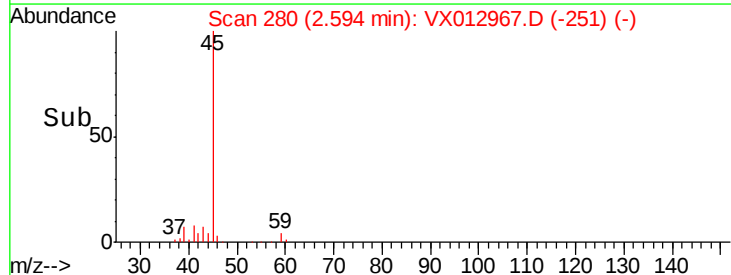
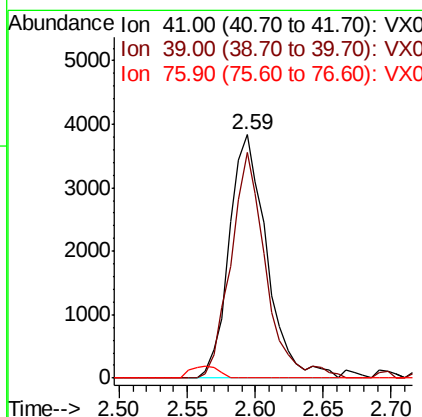
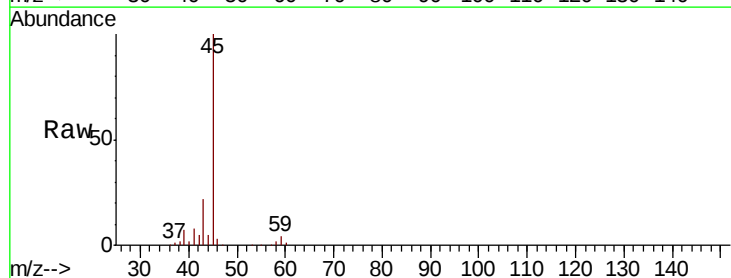
Tot Ion: 59 Resp: 5438
 Ion Ratio Lower Upper
 59 100
 57 7.0 8.3 12.5#

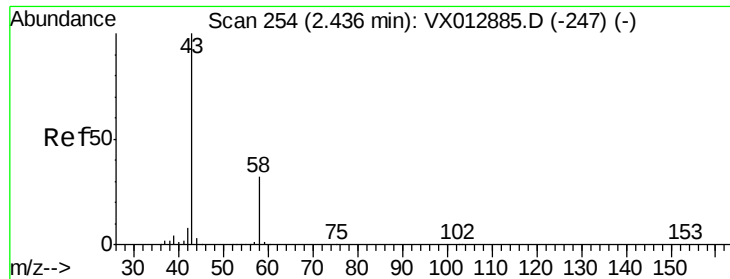


#14

Allyl chloride
 Concen: 2.385 ug/l
 RT: 2.59 min Scan# 280
 Delta R.T. -0.12 min
 Lab File: VX012967.D
 Acq: 10 Oct 2019 01:50

Tgt Ion: 41 Resp: 7362
 Ion Ratio Lower Upper
 41 100
 39 86.5 51.0 76.6#
 76 0.0 26.2 39.4#





#16

Acetone

Concen: 27.840 ug/l

RT: 2.43 min Scan# 253

Delta R.T. -0.01 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

Instrument :

MSVOA_X

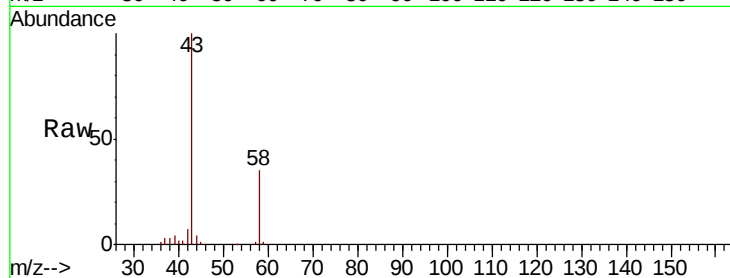
ClientSampleId :

Tot Ion: 43 Resp: 31456

Ion Ratio Lower Upper

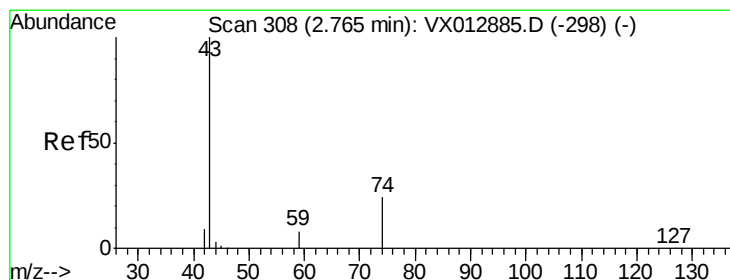
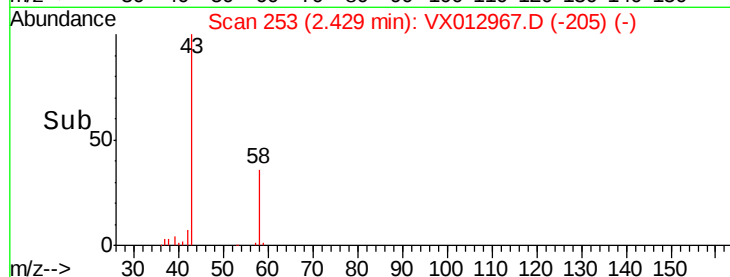
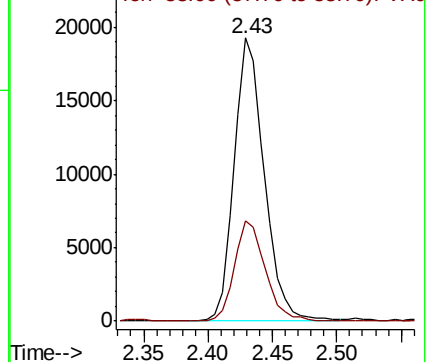
43 100

58 35.5 25.4 38.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#18

Methyl Acetate

Concen: 7.230 ug/l

RT: 2.59 min Scan# 280

Delta R.T. -0.17 min

Lab File: VX012967.D

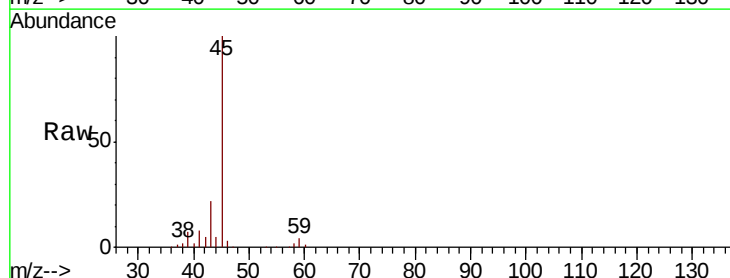
Acq: 10 Oct 2019 01:50

Tgt Ion: 43 Resp: 19363

Ion Ratio Lower Upper

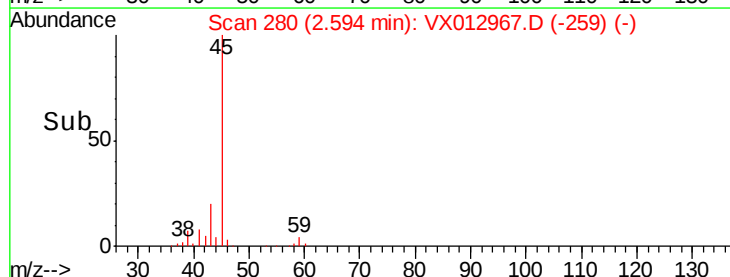
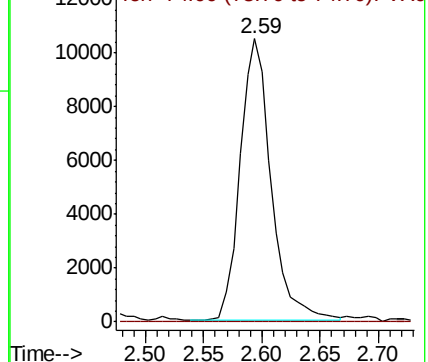
43 100

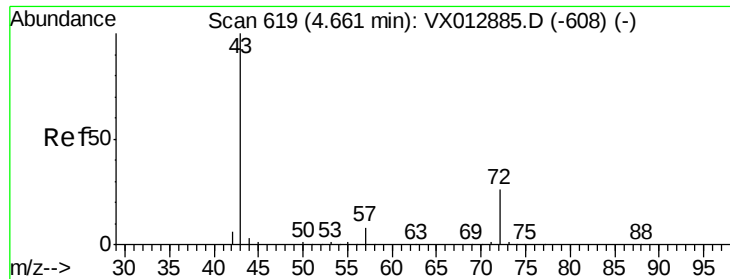
74 0.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0





#25

2-Butanone

Concen: 2.674 ug/l

RT: 4.68 min Scan# 622

Delta R.T. 0.02 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

Instrument :

MSVOA_X

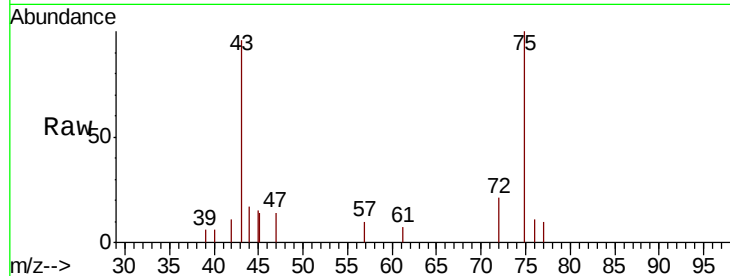
ClientSampled :

Tot Ion: 43 Resp: 4192

Ion Ratio Lower Upper

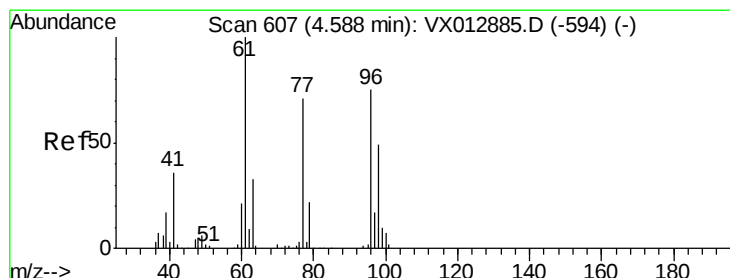
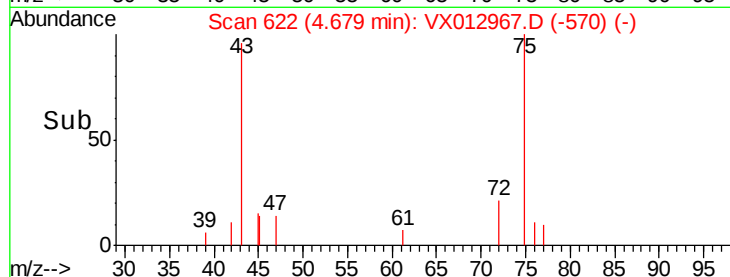
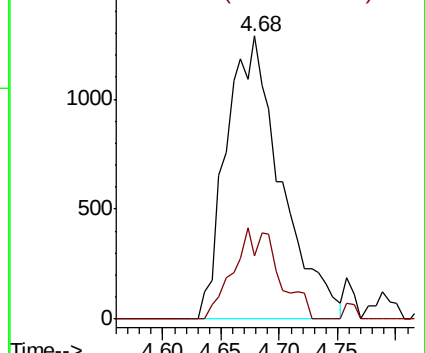
43 100

72 22.1 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: 1.326 ug/l

RT: 4.59 min Scan# 608

Delta R.T. 0.01 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

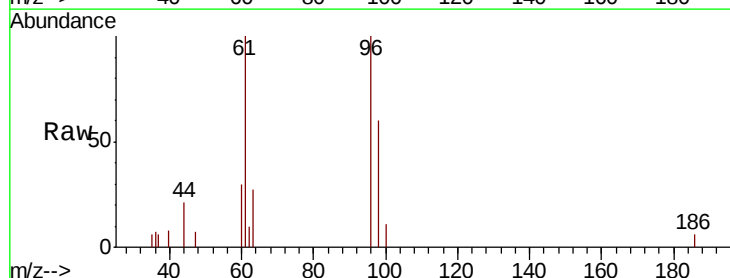
Tgt Ion: 96 Resp: 2840

Ion Ratio Lower Upper

96 100

61 130.5 0.0 290.6

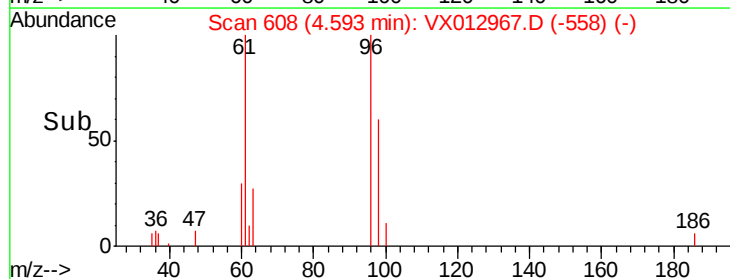
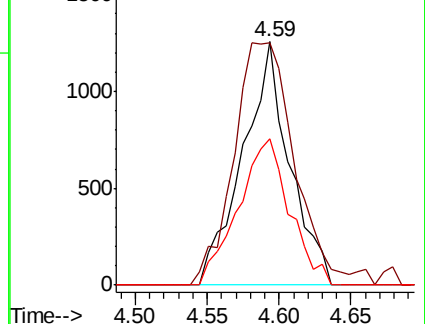
98 65.8 0.0 128.8

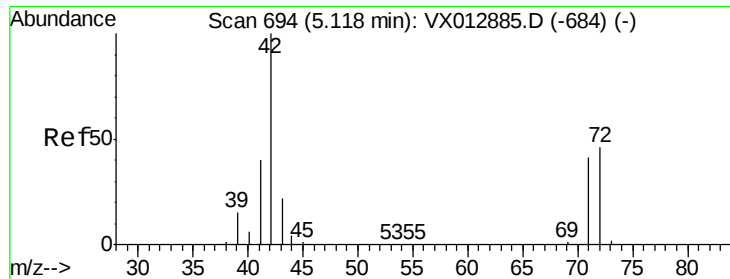


Abundance Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

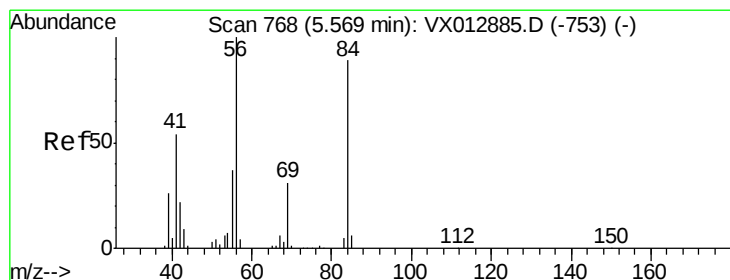
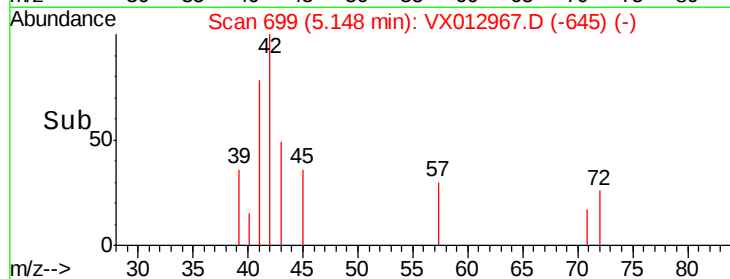
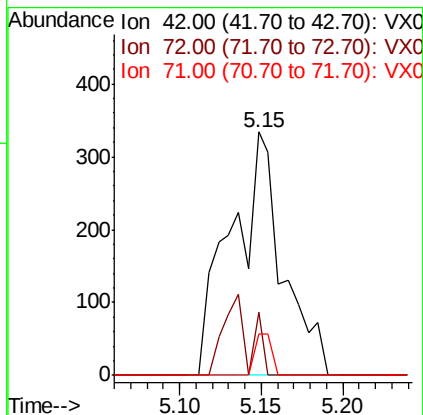
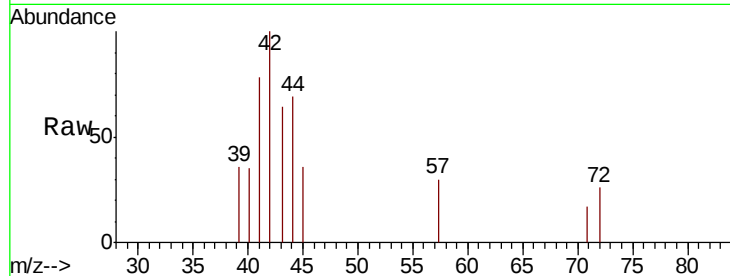




#29
Tetrahydrofuran
Concen: 0.763 ug/l
RT: 5.15 min Scan# 699
Delta R.T. 0.03 min
Lab File: VX012967.D
Acq: 10 Oct 2019 01:50

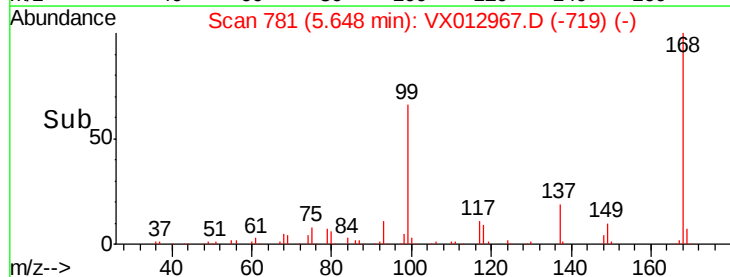
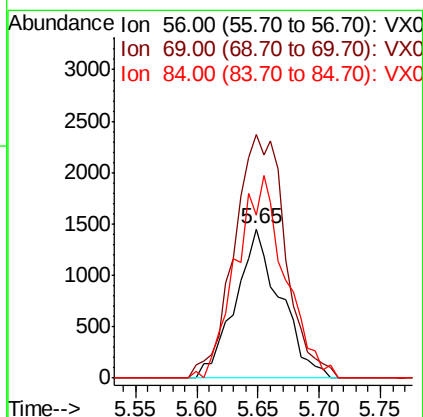
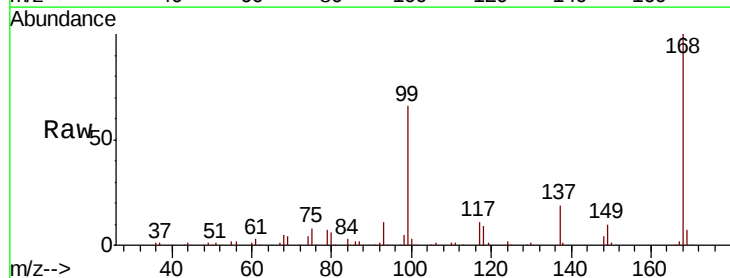
Instrument :
MSVOA_X
ClientSampleId :

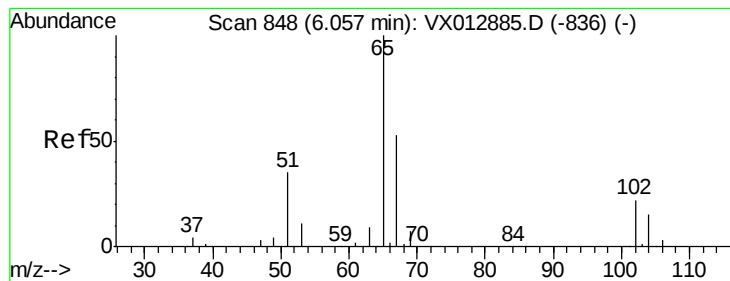
Tot Ion: 42 Resp: 736
Ion Ratio Lower Upper
42 100
72 16.6 36.9 55.3#
71 5.6 33.5 50.3#



#31
Cyclohexane
Concen: 1.191 ug/l
RT: 5.65 min Scan# 781
Delta R.T. 0.08 min
Lab File: VX012967.D
Acq: 10 Oct 2019 01:50

Tgt Ion: 56 Resp: 3706
Ion Ratio Lower Upper
56 100
69 163.2 25.2 37.8#
84 109.0 71.3 106.9#





#33

1,2-Dichloroethane-d4

Concen: 52.781 ug/l

RT: 6.06 min Scan# 848

Delta R.T. -0.00 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

Instrument :

MSVOA_X

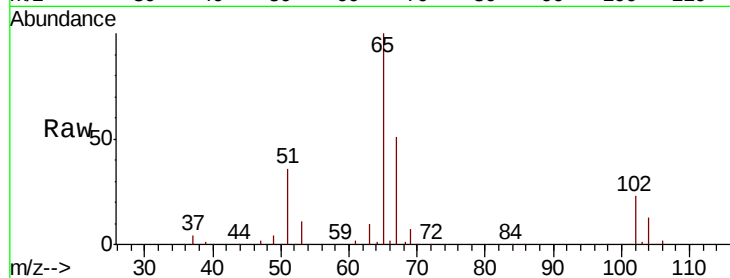
ClientSampleId :

Tot Ion: 65 Resp: 113142

Ion Ratio Lower Upper

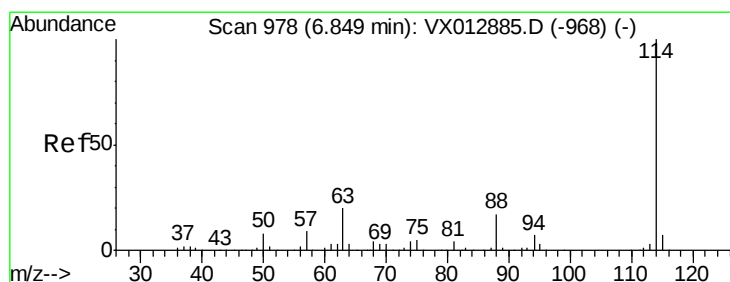
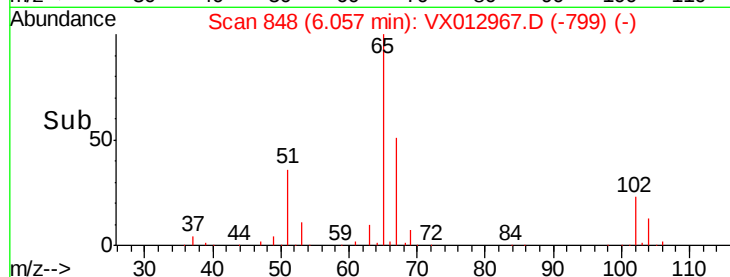
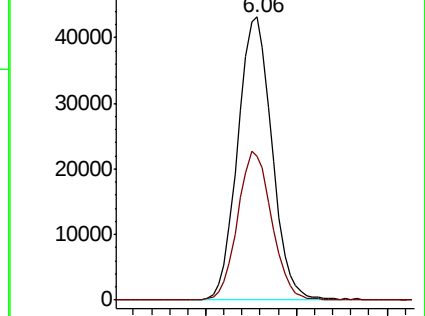
65 100

67 52.2 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: VX012967.D

Acq: 10 Oct 2019 01:50

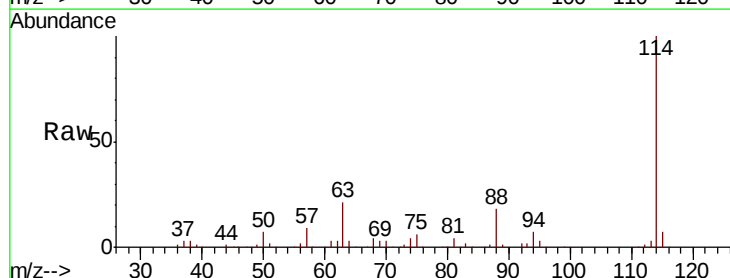
Tgt Ion: 114 Resp: 286380

Ion Ratio Lower Upper

114 100

63 21.1 0.0 40.8

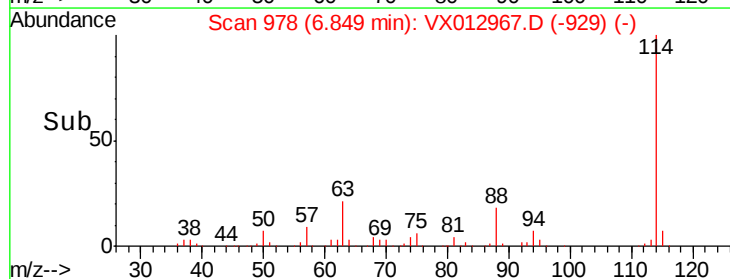
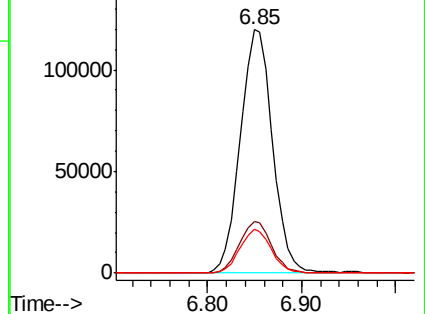
88 18.2 0.0 33.8

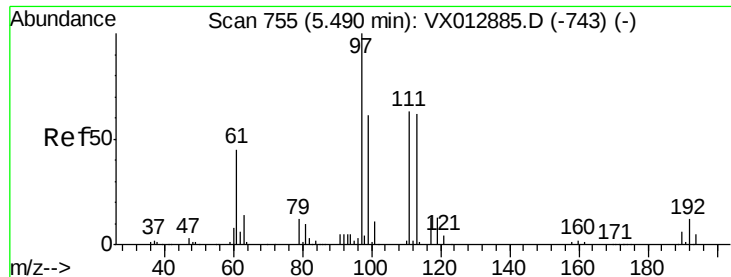


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.627 ug/l

RT: 5.49 min Scan# 755

Delta R.T. -0.00 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

Instrument :
MSVOA_X
ClientSampleId :

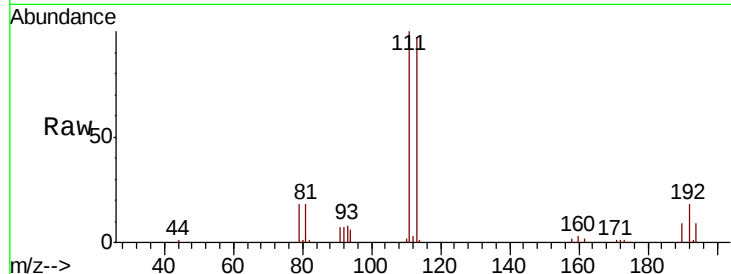
Tot Ion:113 Resp: 81571

Ion Ratio Lower Upper

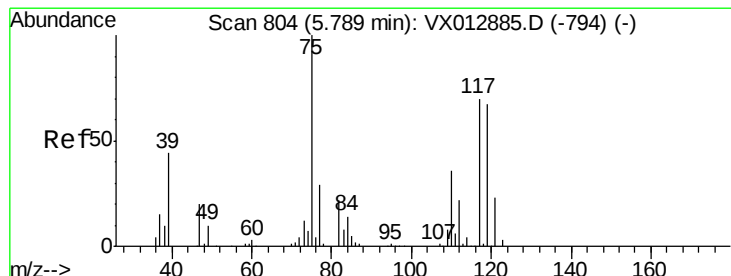
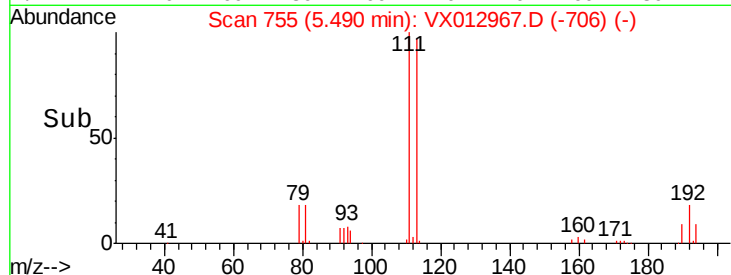
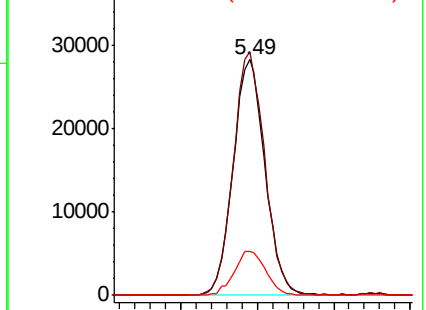
113 100

111 102.1 83.2 124.8

192 18.8 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: 5.268 ug/l

RT: 5.65 min Scan# 781

Delta R.T. -0.14 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

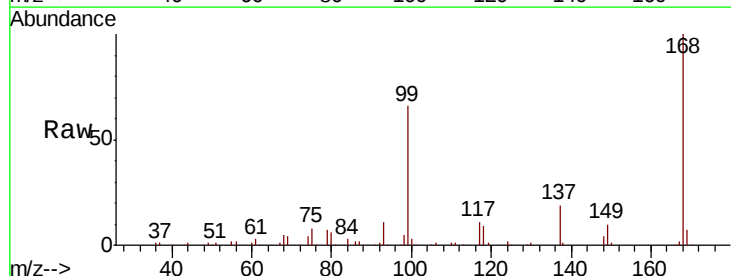
Tgt Ion: 75 Resp: 13265

Ion Ratio Lower Upper

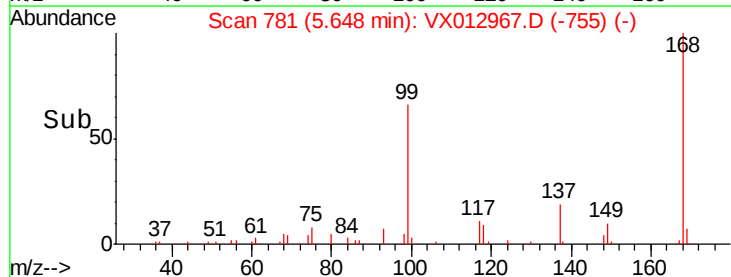
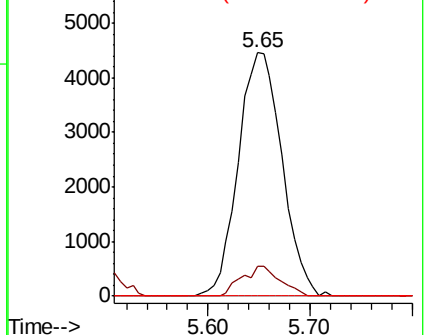
75 100

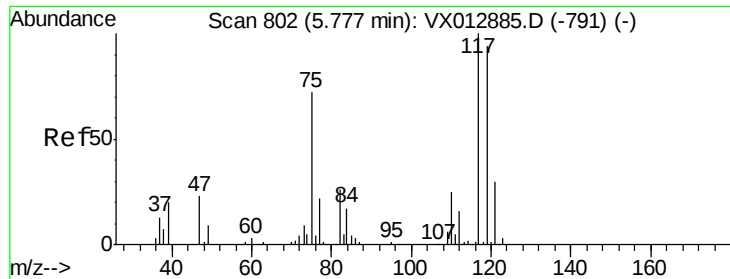
110 10.7 17.6 52.9#

77 0.0 24.4 36.6#



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: 7.334 ug/l

RT: 5.65 min Scan# 782

Delta R.T. -0.12 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

Instrument :

MSVOA_X

ClientSampleId :

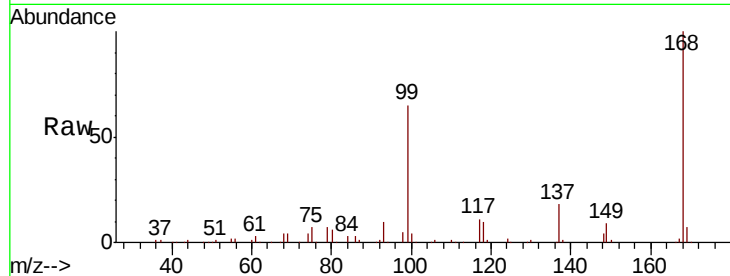
Tot Ion:117 Resp: 17973

Ion Ratio Lower Upper

117 100

119 4.7 74.5 111.7#

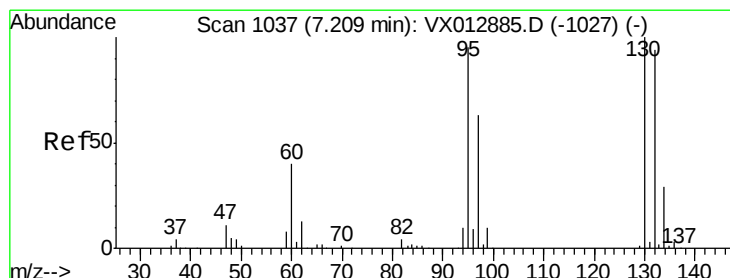
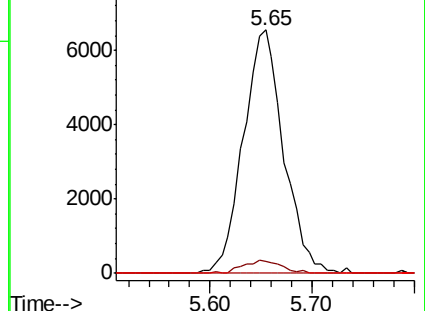
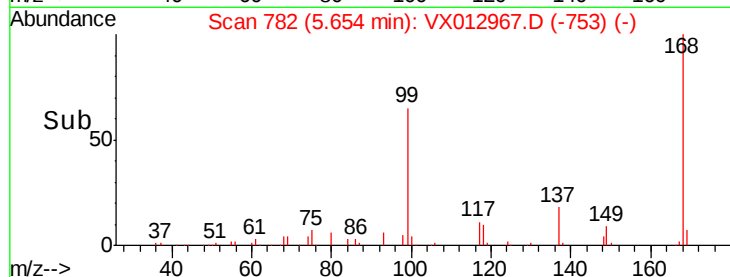
121 0.0 24.2 36.4#



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: 2.093 ug/l

RT: 7.20 min Scan# 1036

Delta R.T. -0.01 min

Lab File: VX012967.D

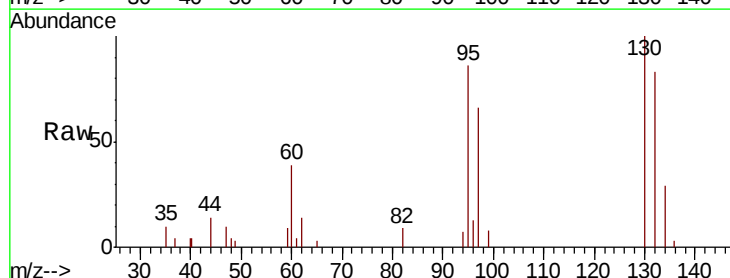
Acq: 10 Oct 2019 01:50

Tgt Ion:130 Resp: 4317

Ion Ratio Lower Upper

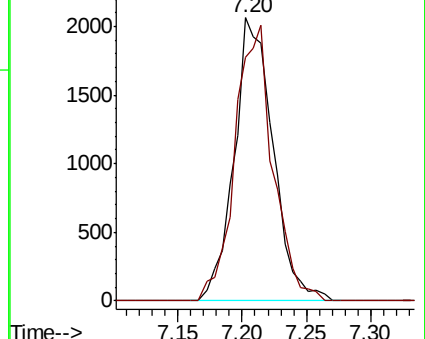
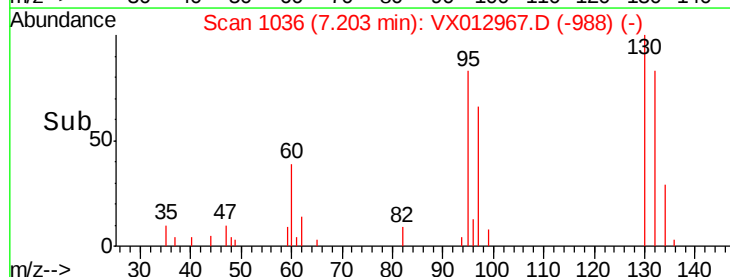
130 100

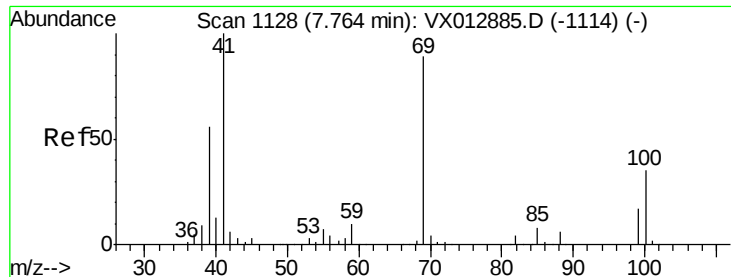
95 86.1 0.0 189.2



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0





#48

Methyl methacrylate

Concen: 0.655 ug/l

RT: 7.92 min Scan# 1154

Delta R.T. 0.16 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

Instrument :
MSVOA_X
ClientSampleId :

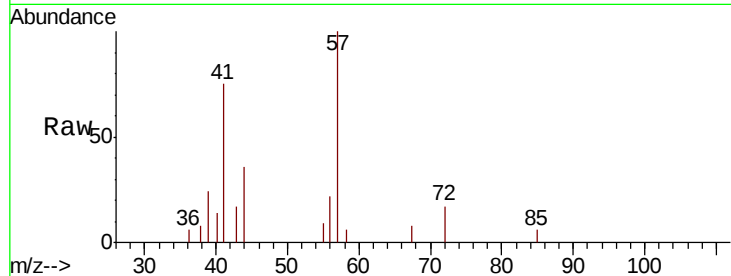
Tot Ion: 41 Resp: 1443

Ion Ratio Lower Upper

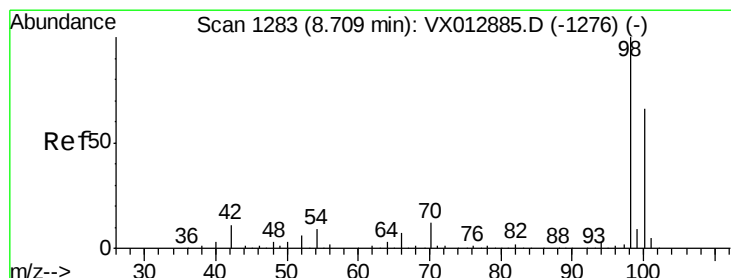
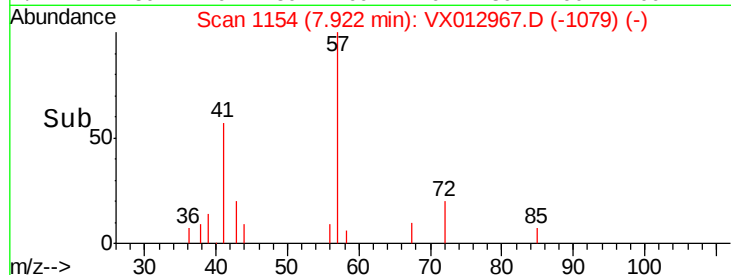
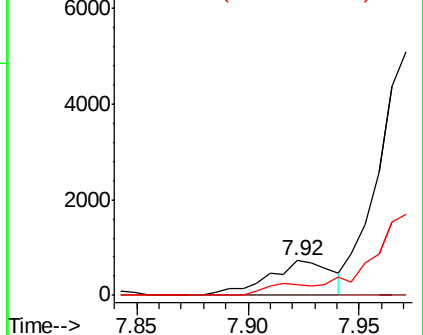
41 100

69 0.0 68.7 103.1#

39 24.1 44.3 66.5#



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0



#50

Toluene-d8

Concen: 53.675 ug/l

RT: 8.71 min Scan# 1283

Delta R.T. -0.00 min

Lab File: VX012967.D

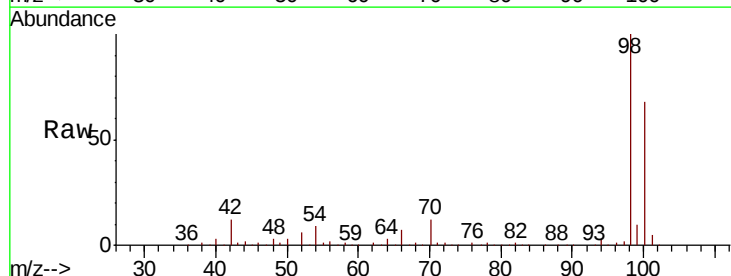
Acq: 10 Oct 2019 01:50

Tgt Ion: 98 Resp: 344096

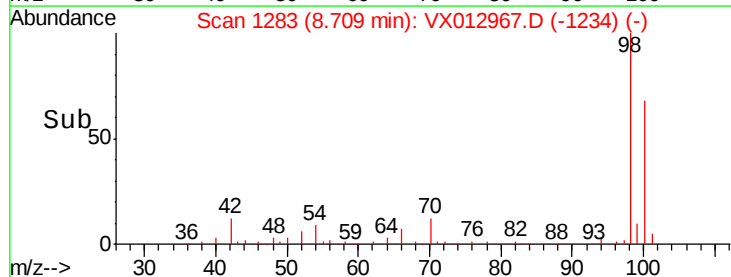
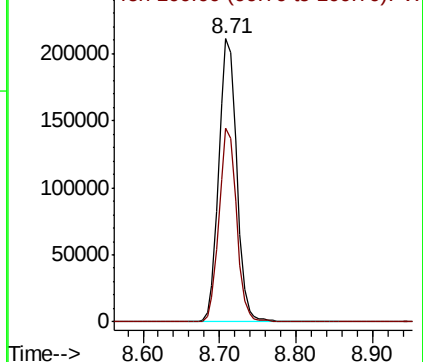
Ion Ratio Lower Upper

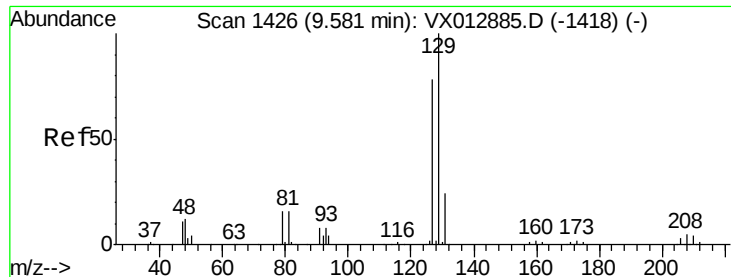
98 100

100 66.9 53.4 80.2



Abundance Ion 98.00 (97.70 to 98.70): VX0
Ion 100.00 (99.70 to 100.70): VX0





#60

Dibromochloromethane

Concen: 1.885 ug/l

RT: 9.34 min Scan# 1386

Delta R.T. -0.24 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

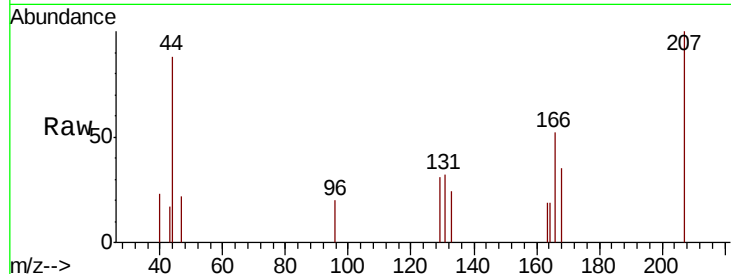
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:129 Resp: 61

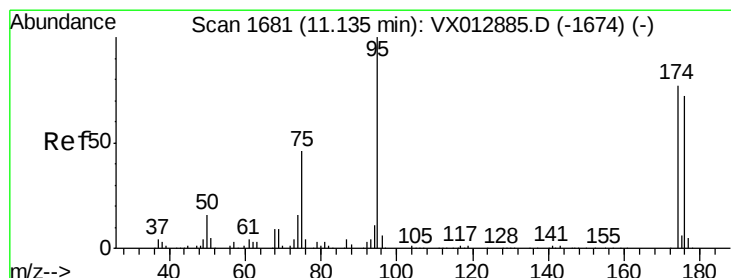
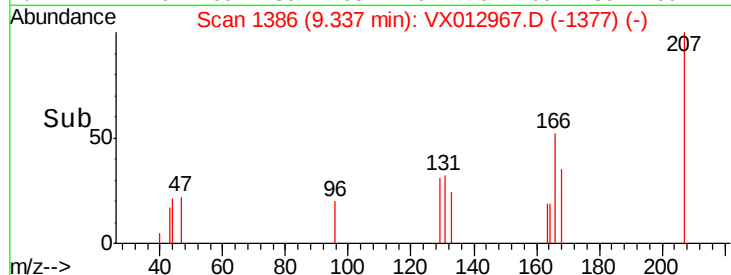
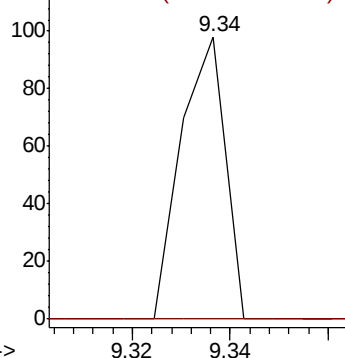
Ion Ratio Lower Upper

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



#62

4-Bromofluorobenzene

Concen: 46.013 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.01 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

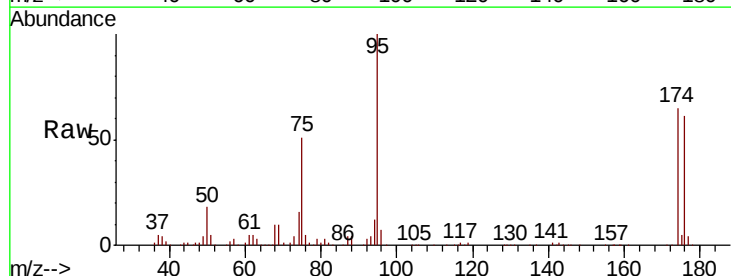
Tgt Ion: 95 Resp: 114614

Ion Ratio Lower Upper

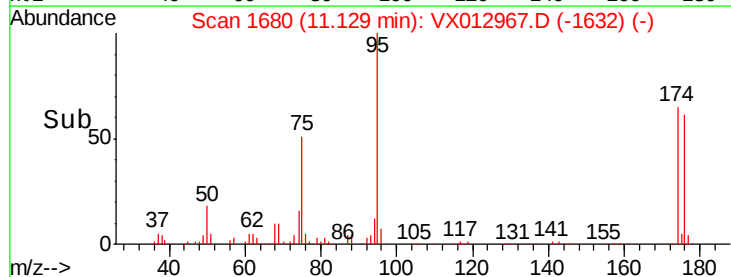
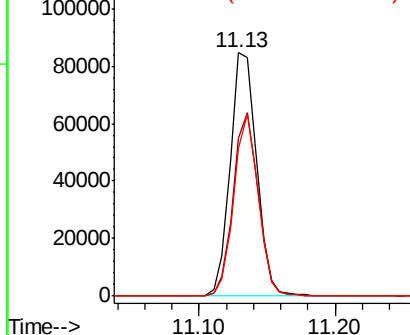
95 100

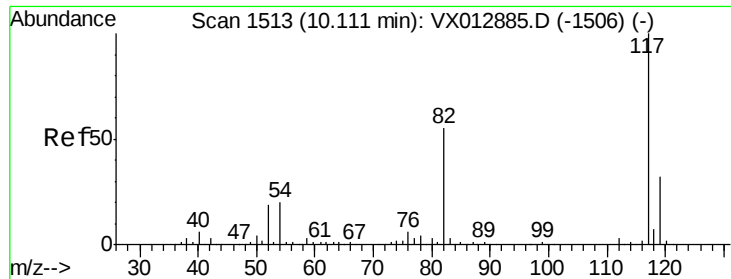
174 72.4 0.0 143.4

176 69.4 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

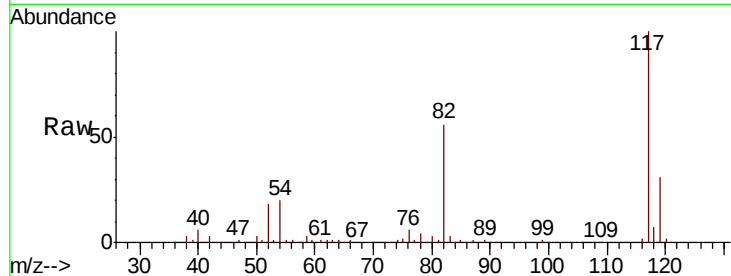




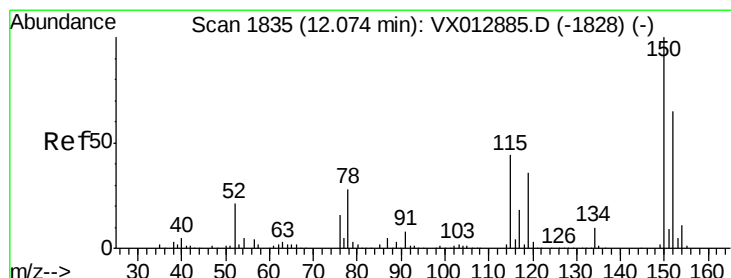
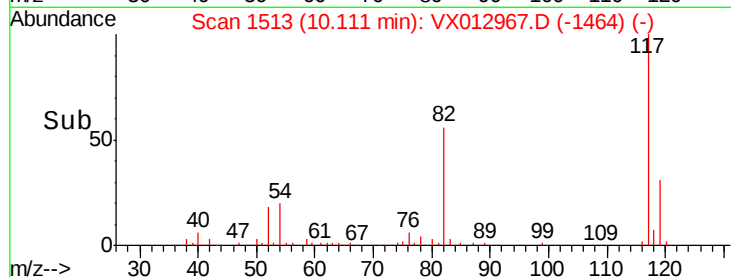
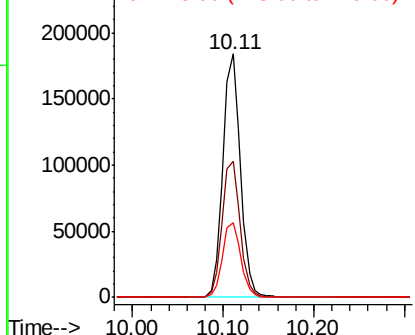
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VX012967.D
Acq: 10 Oct 2019 01:50

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 248578
Ion Ratio Lower Upper
117 100
82 56.1 44.1 66.1
119 30.8 25.8 38.8

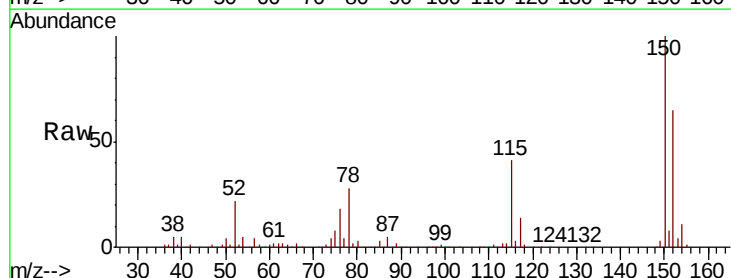


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

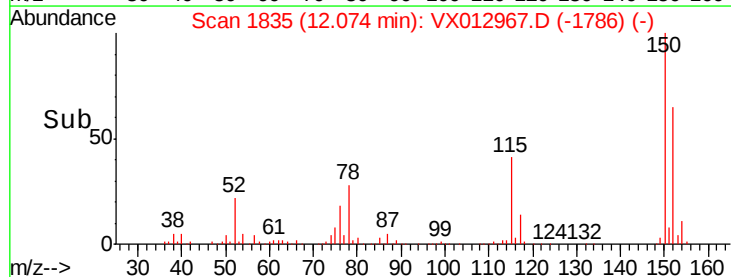
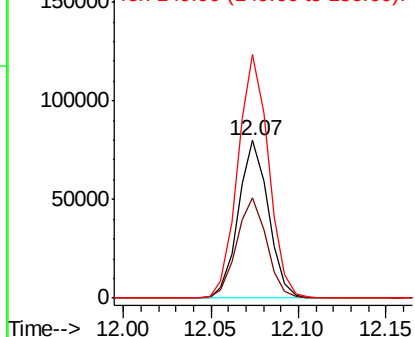


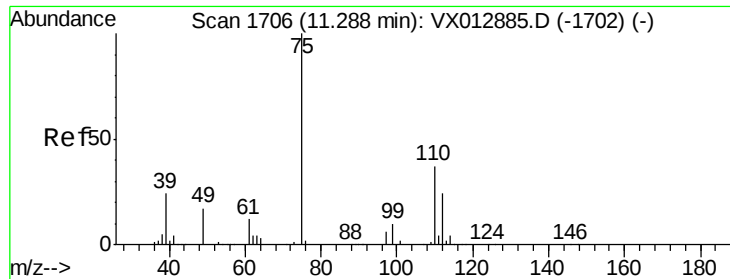
#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.07 min Scan# 1835
Delta R.T. -0.00 min
Lab File: VX012967.D
Acq: 10 Oct 2019 01:50

Tgt Ion:152 Resp: 95524
Ion Ratio Lower Upper
152 100
115 64.0 44.5 133.5
150 158.4 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: 27.259 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. -0.16 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

Instrument :

MSVOA_X

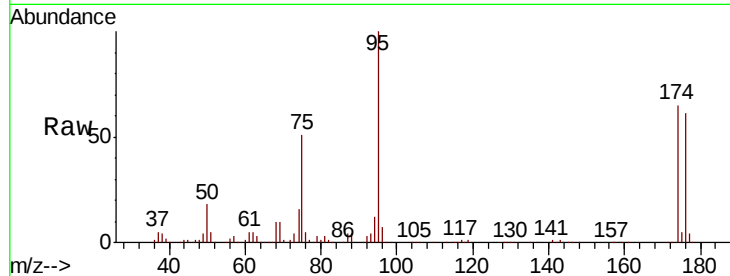
ClientSampleId :

Tot Ion: 75 Resp: 57753

Ion Ratio Lower Upper

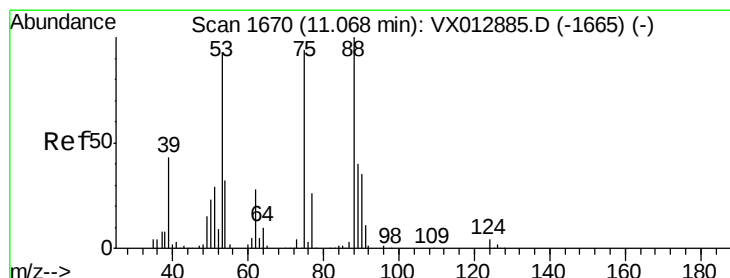
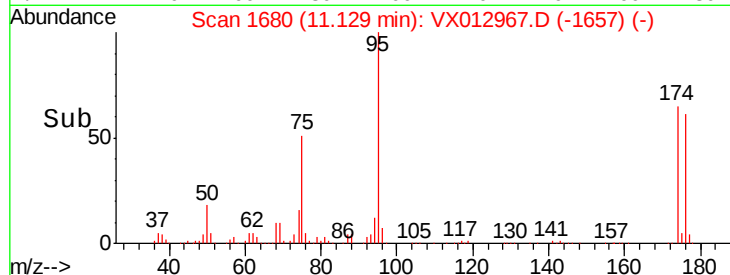
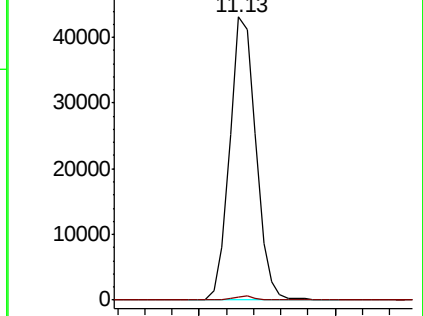
75 100

77 1.2 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: 68.453 ug/l

RT: 11.13 min Scan# 1680

Delta R.T. 0.06 min

Lab File: VX012967.D

Acq: 10 Oct 2019 01:50

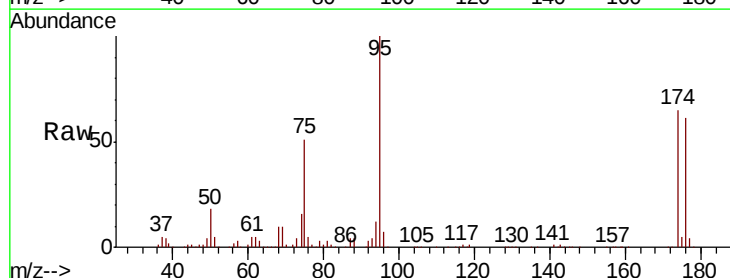
Tgt Ion: 75 Resp: 57753

Ion Ratio Lower Upper

75 100

53 0.0 78.5 117.7#

89 0.0 37.4 56.2#



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

