

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX020819\
 Data File : VX007444.D
 Acq On : 08 Feb 2019 16:09
 Operator : JC/SP
 Sample : K1415-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Feb 08 23:00:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA X\METHOD\624X012519W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Mon Jan 28 10:35:22 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.02	128	77678	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	6.86	114	408038	30.00	ug/l	0.00
57) Chlorobenzene-d5	10.11	117	367230	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	6.07	65	154013	30.20	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	100.67%
60) 4-Bromofluorobenzene	11.13	95	168407	29.71	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	99.03%
63) Toluene-d8	8.71	98	482030	29.12	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	97.07%

Target Compounds

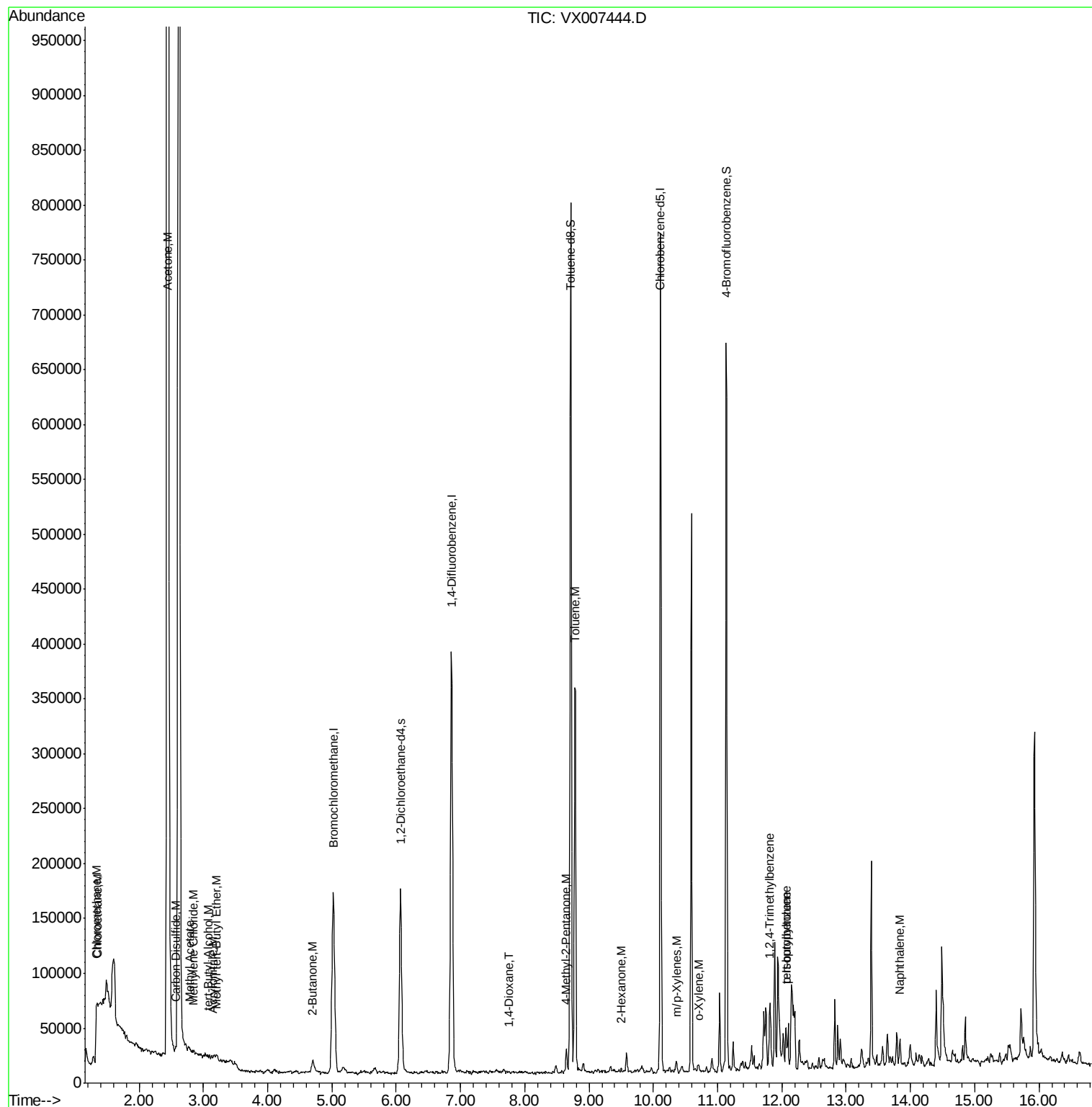
					Ovalue	
3) Chloromethane	1.34	50	2291	0.588	ug/l #	61
6) Chloroethane	1.35	64	93828	31.474	ug/l #	51
12) Methyl Acetate	2.78	43	4841	0.709	ug/l	97
14) Acrylonitrile	3.14	53	654	0.256	ug/l #	22
15) Acetone	2.45	58	1194095	1643.450	ug/l	90
16) Carbon Disulfide	2.57	76	7829	0.810	ug/l #	81
18) Methylene Chloride	2.85	84	981	0.212	ug/l #	84
23) tert-Butyl Alcohol	3.07	59	1916	1.784	ug/l #	90
24) Methyl tert-Butyl Ether	3.20	73	3631	0.259	ug/l #	76
30) 2-Butanone	4.70	43	18684	5.879	ug/l	98
45) 1,4-Dioxane	7.76	88	88	0.784	ug/l #	1
58) 4-Methyl-2-Pentanone	8.65	43	13504	2.199	ug/l	93
59) 2-Hexanone	9.49	43	1524	0.321	ug/l #	94
62) Toluene	8.79	91	238859	12.922	ug/l	100
67) m/p-Xylenes	10.35	106	2801	0.354	ug/l	93
68) o-Xylene	10.70	106	1688	0.218	ug/l	76
79) tert-butylbenzene	12.06	119	14675	0.792	ug/l	95
80) 1,2,4-Trimethylbenzene	11.81	105	14520	0.838	ug/l	54
82) p-Isopropyltoluene	12.06	119	14675	0.792	ug/l	95
91) Naphthalene	13.83	128	7003	0.335	ug/l #	95

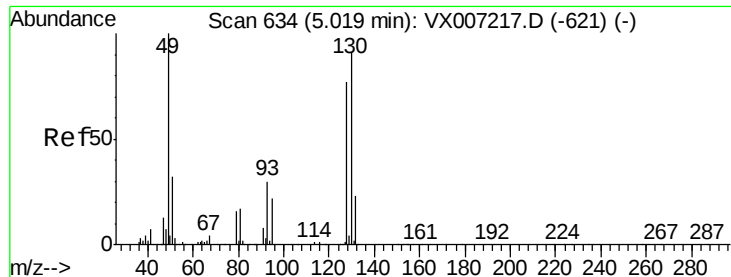
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Mon Jan 28 10:35:22 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 5.02 min Scan# 634

Delta R.T. -0.00 min

Lab File: VX007444.D

Acq: 08 Feb 2019 16:09

Instrument :
MSVOA_X
ClientSampleId :

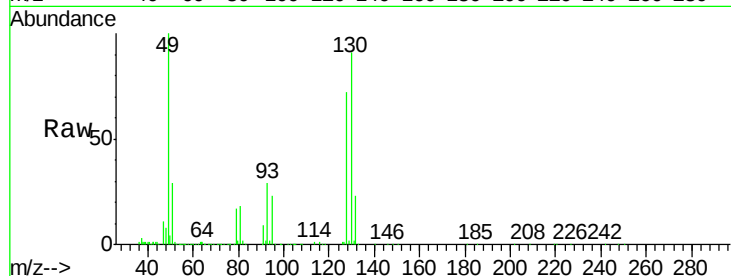
Tot Ion:128 Resp: 77678

Ion Ratio Lower Upper

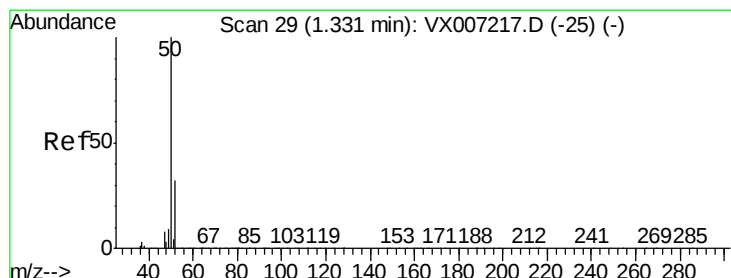
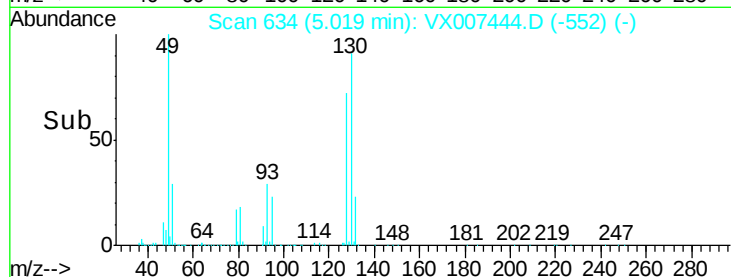
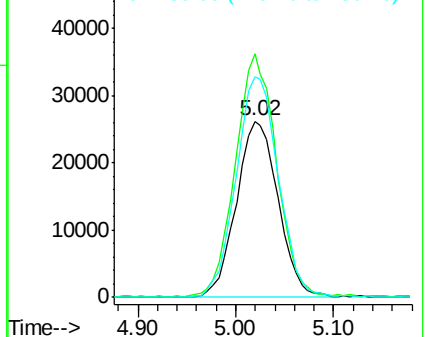
128 100

49 135.9 0.0 345.5

130 126.7 0.0 320.0



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): VX0
Ion 130.00 (129.70 to 130.70): V



#3

Chloromethane

Concen: 0.588 ug/l

RT: 1.34 min Scan# 30

Delta R.T. 0.01 min

Lab File: VX007444.D

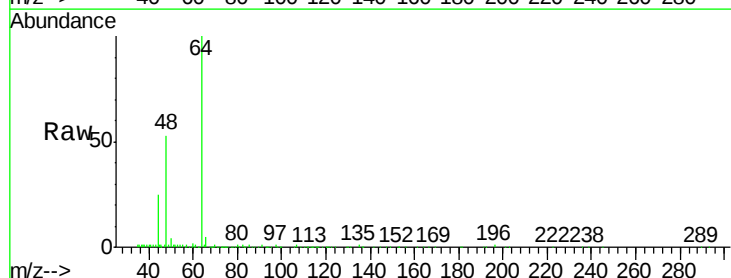
Acq: 08 Feb 2019 16:09

Tgt Ion: 50 Resp: 2291

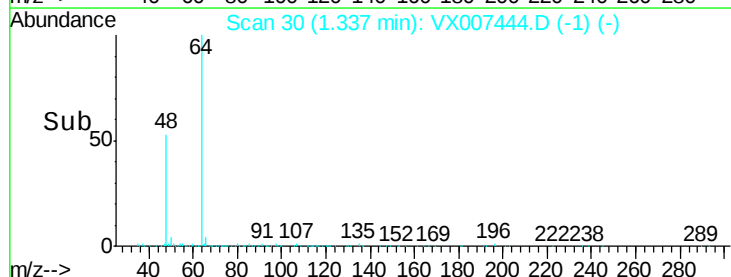
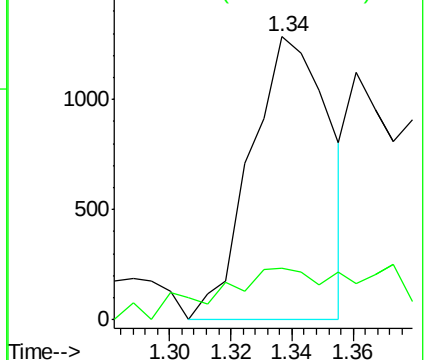
Ion Ratio Lower Upper

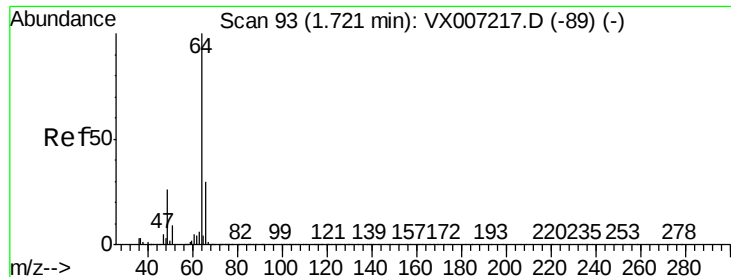
50 100

52 10.4 25.7 38.5#



Abundance Ion 50.00 (49.70 to 50.70): VX0
Ion 52.00 (51.70 to 52.70): VX0





#6

Chloroethane

Concen: 31.474 ug/l

RT: 1.35 min Scan# 32

Delta R.T. -0.37 min

Lab File: VX007444.D

Acq: 08 Feb 2019 16:09

Instrument :

MSVOA_X

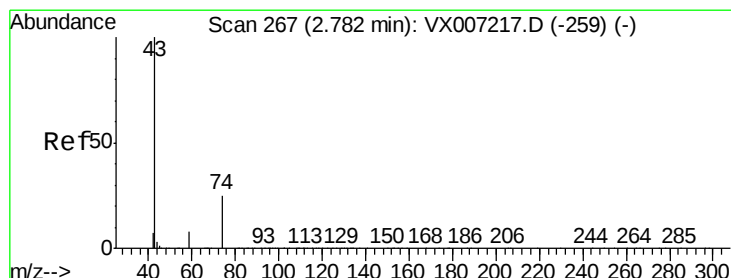
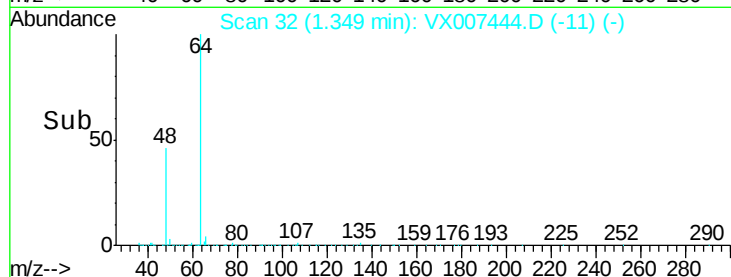
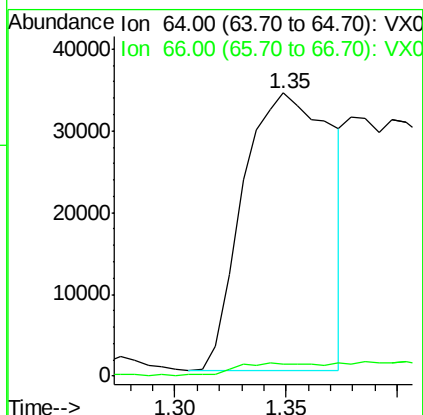
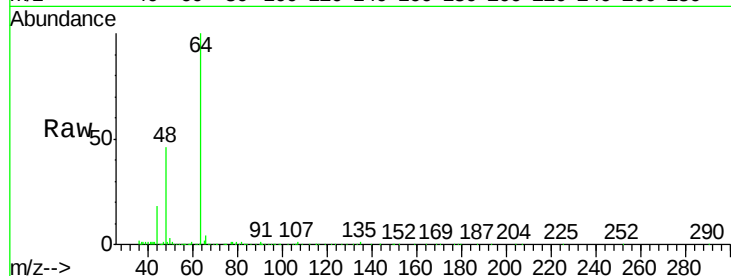
ClientSampleId :

Tot Ion: 64 Resp: 93828

Ion Ratio Lower Upper

64 100

66 3.7 24.2 36.2#



#12

Methyl Acetate

Concen: 0.709 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX007444.D

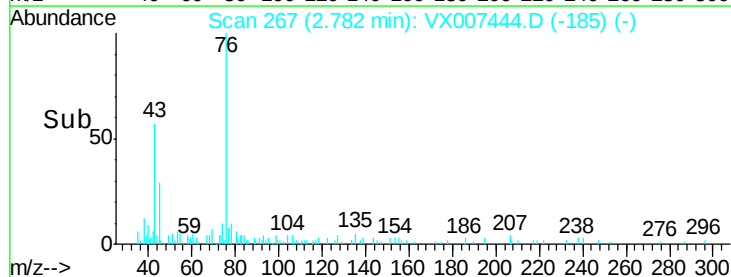
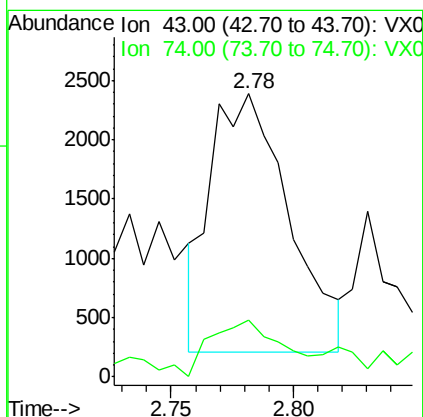
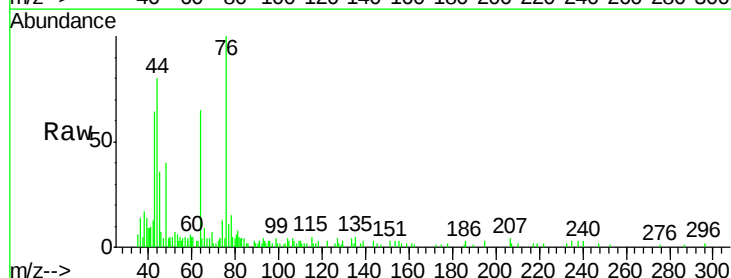
Acq: 08 Feb 2019 16:09

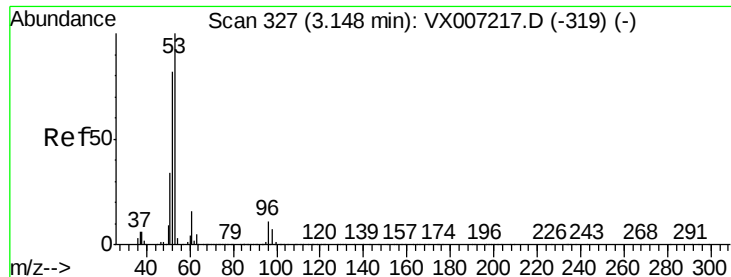
Tgt Ion: 43 Resp: 4841

Ion Ratio Lower Upper

43 100

74 23.4 19.8 29.8





#14

Acrylonitrile

Concen: 0.256 ug/l

RT: 3.14 min Scan# 326

Delta R.T. -0.01 min

Lab File: VX007444.D

Acq: 08 Feb 2019 16:09

Instrument :

MSVOA_X

ClientSampled :

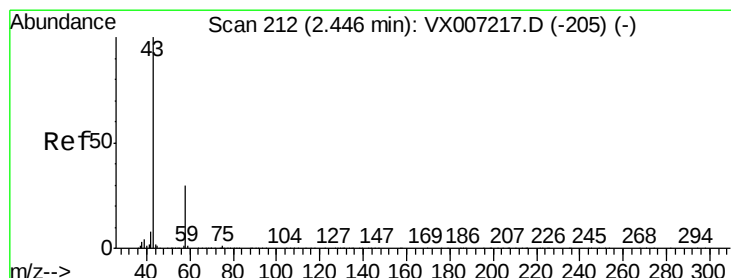
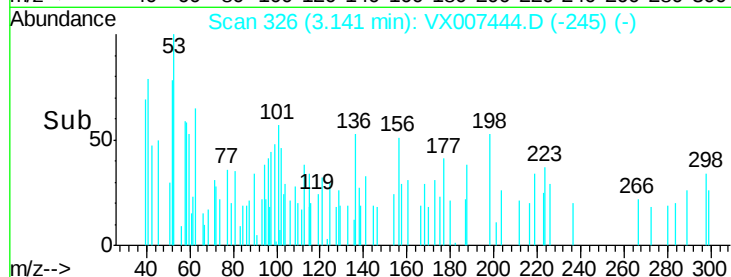
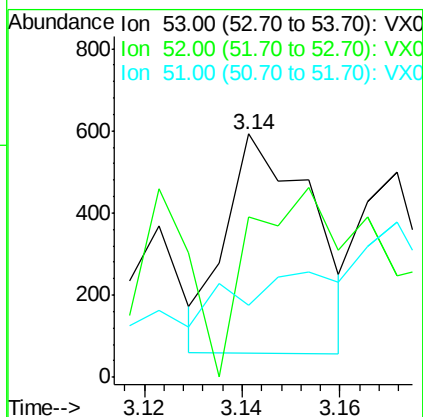
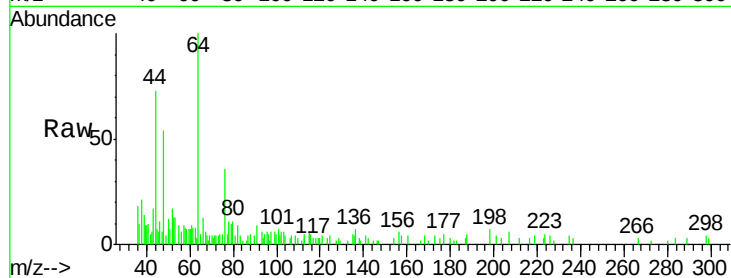
Tot Ion: 53 Resp: 654

Ion Ratio Lower Upper

53 100

52 0.0 41.3 124.1#

51 8.9 17.9 53.8#



#15

Acetone

Concen: 1643.450 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007444.D

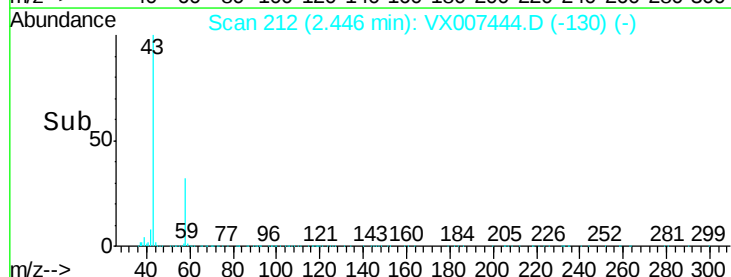
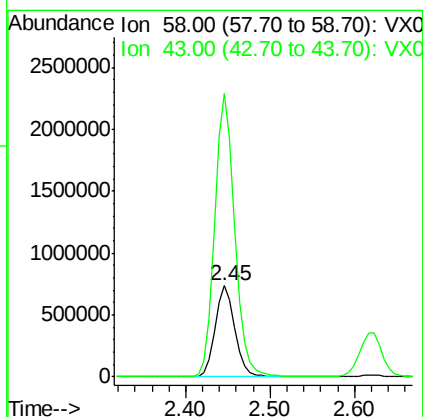
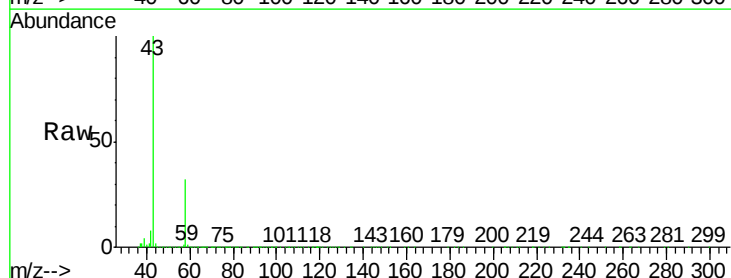
Acq: 08 Feb 2019 16:09

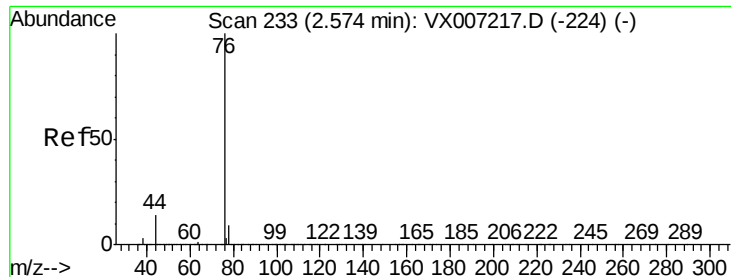
Tgt Ion: 58 Resp: 1194095

Ion Ratio Lower Upper

58 100

43 311.7 265.9 398.9

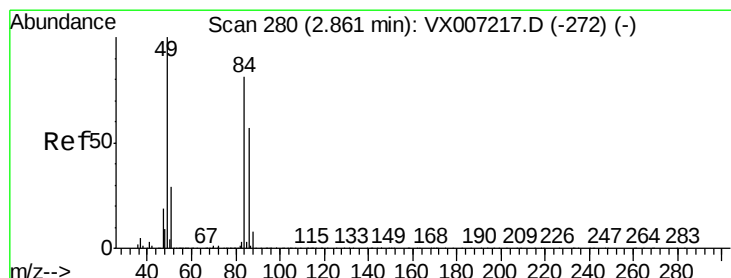
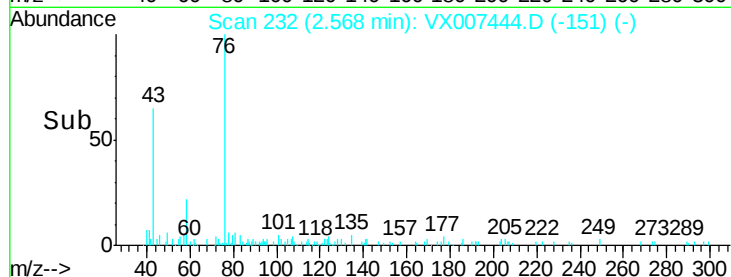
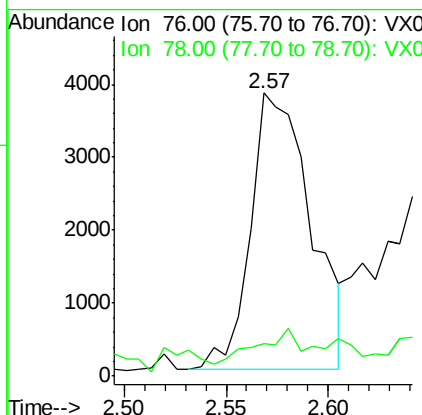
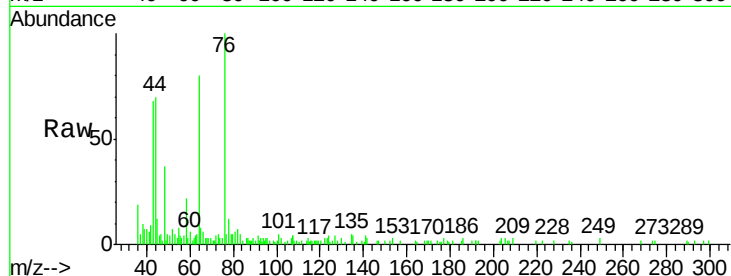




#16
Carbon Disulfide
Concen: 0.810 ug/l
RT: 2.57 min Scan# 232
Delta R.T. -0.01 min
Lab File: VX007444.D
Acq: 08 Feb 2019 16:09

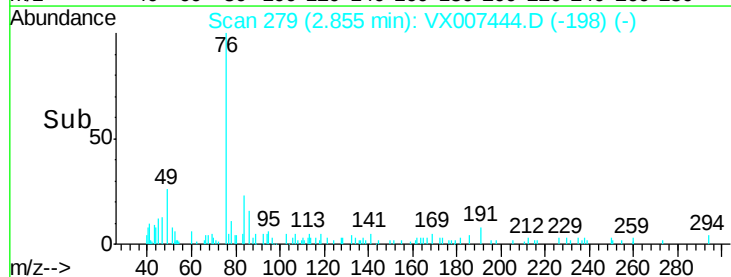
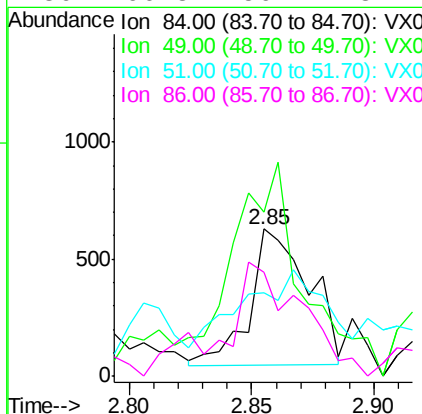
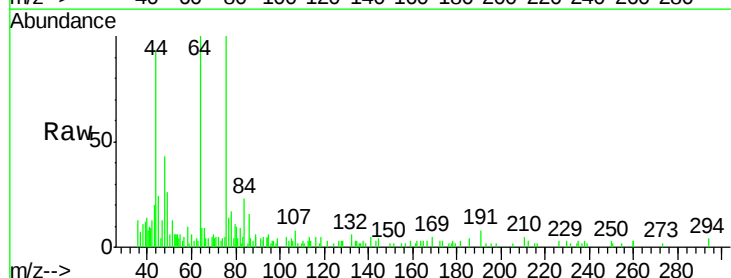
Instrument :
MSVOA_X
ClientSampleId :

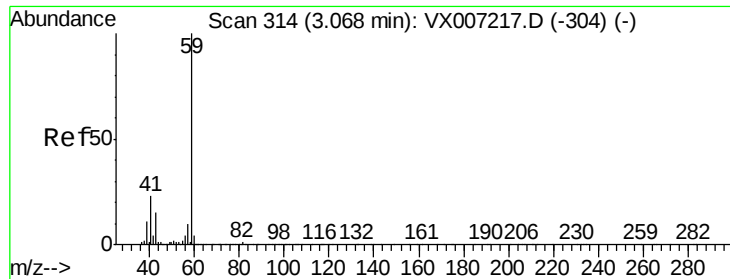
Tot Ion: 76 Resp: 7829
Ion Ratio Lower Upper
76 100
78 2.5 7.7 11.5#



#18
Methylene Chloride
Concen: 0.212 ug/l
RT: 2.85 min Scan# 279
Delta R.T. -0.01 min
Lab File: VX007444.D
Acq: 08 Feb 2019 16:09

Tgt Ion: 84 Resp: 981
Ion Ratio Lower Upper
84 100
49 96.1 98.4 147.6#
51 41.6 28.9 43.3
86 66.8 56.1 84.1



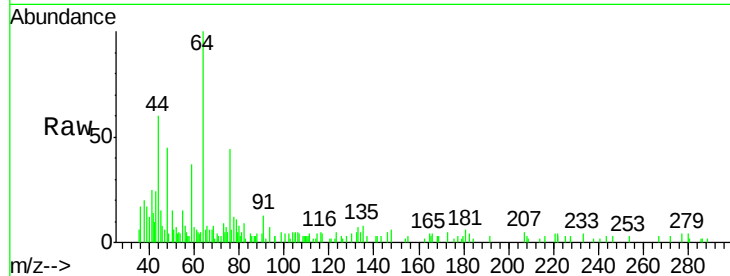


#23

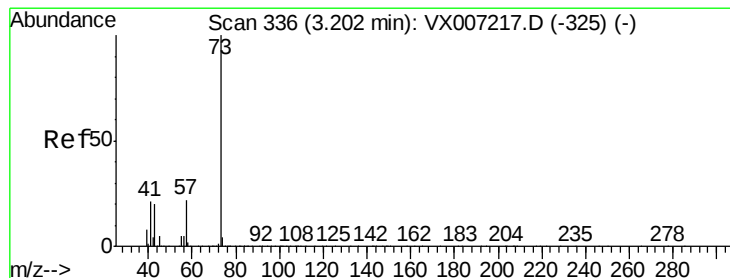
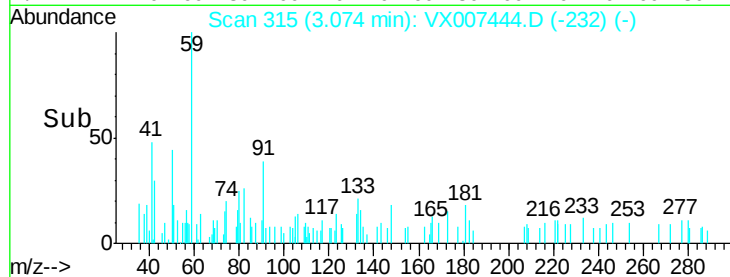
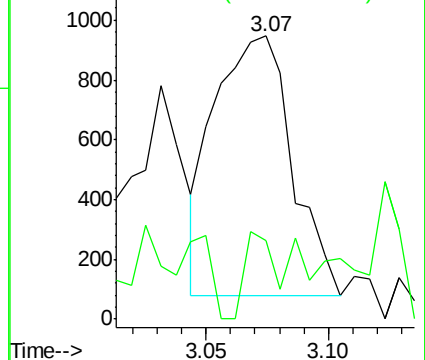
tert-Butyl Alcohol
 Concen: 1.784 ug/l
 RT: 3.07 min Scan# 315
 Delta R.T. 0.01 min
 Lab File: VX007444.D
 Acq: 08 Feb 2019 16:09

Instrument :
 MSVOA_X
 ClientSampled :

Tot Ion: 59 Resp: 1916
 Ion Ratio Lower Upper
 59 100
 52 12.4 0.2 0.2#



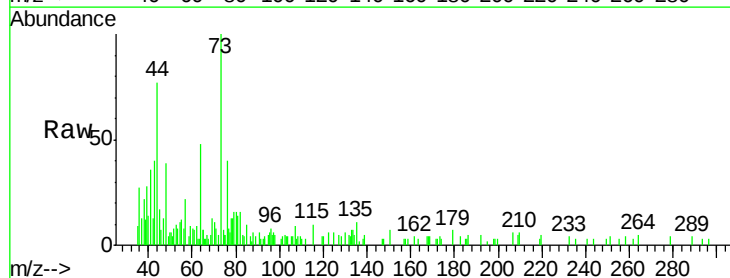
Abundance Ion 59.00 (58.70 to 59.70): VX0
 Ion 52.00 (51.70 to 52.70): VX0



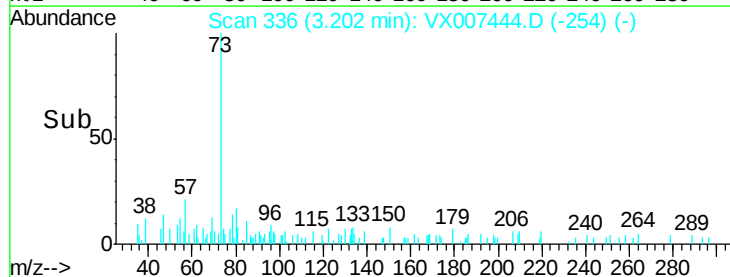
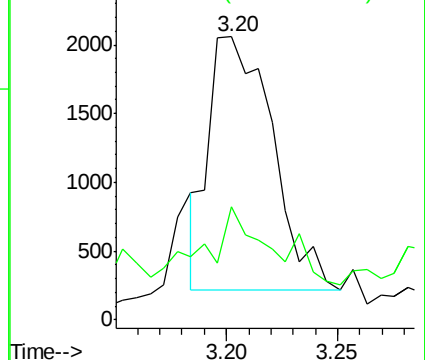
#24

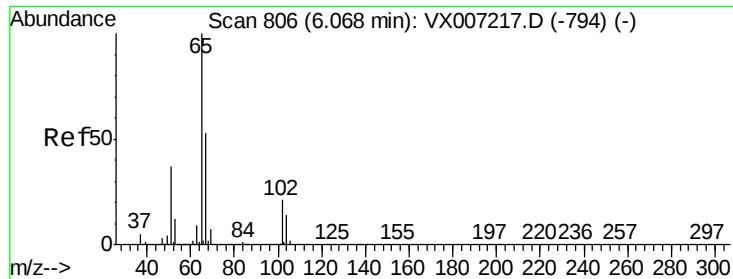
Methyl tert-Butyl Ether
 Concen: 0.259 ug/l
 RT: 3.20 min Scan# 336
 Delta R.T. -0.00 min
 Lab File: VX007444.D
 Acq: 08 Feb 2019 16:09

Tgt Ion: 73 Resp: 3631
 Ion Ratio Lower Upper
 73 100
 43 9.1 16.2 24.4#



Abundance Ion 73.00 (72.70 to 73.70): VX0
 Ion 43.00 (42.70 to 43.70): VX0

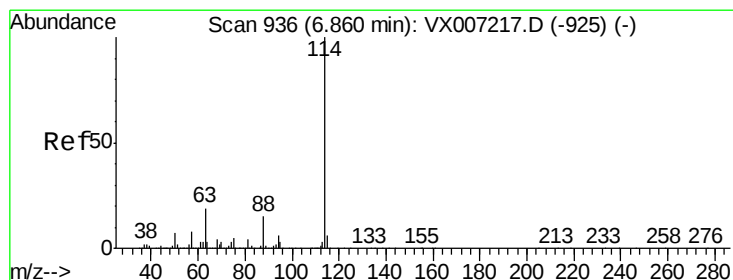
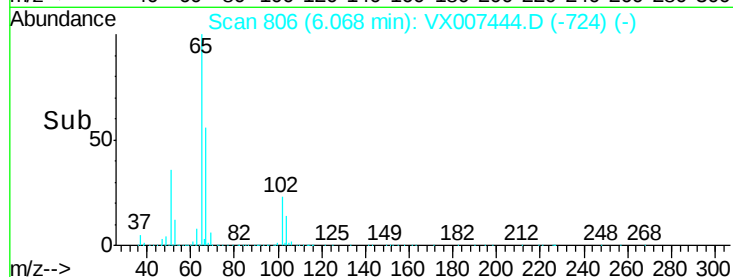
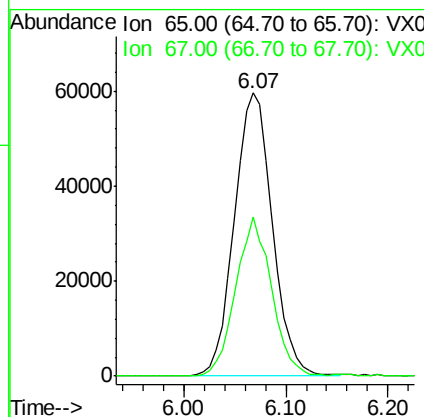
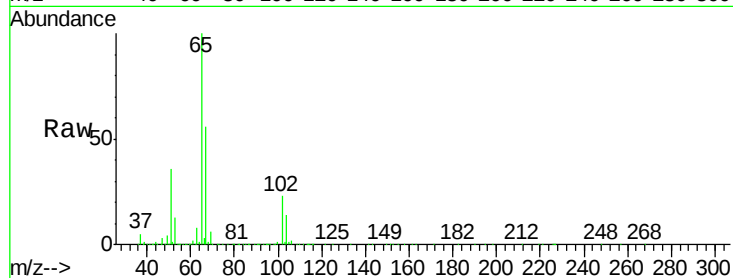




#27
 1,2-Dichloroethane-d4
 Concen: 30.205 ug/l
 RT: 6.07 min Scan# 806
 Delta R.T. 0.00 min
 Lab File: VX007444.D
 Acq: 08 Feb 2019 16:09

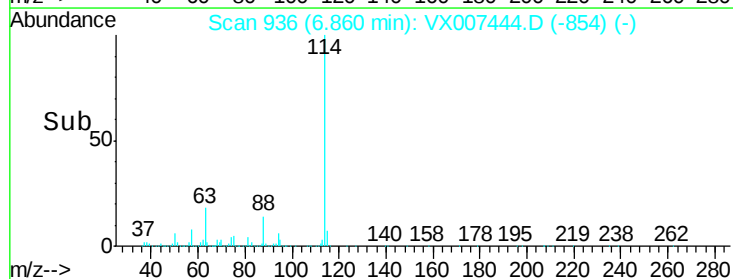
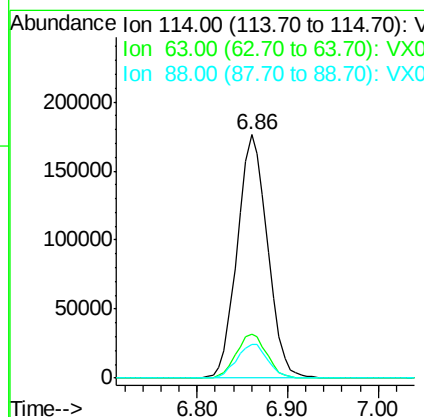
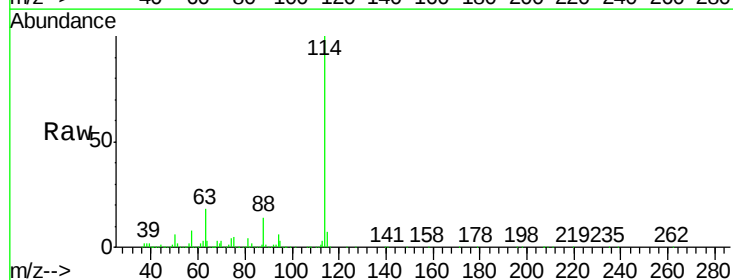
Instrument :
 MSVOA_X
 ClientSampleId :

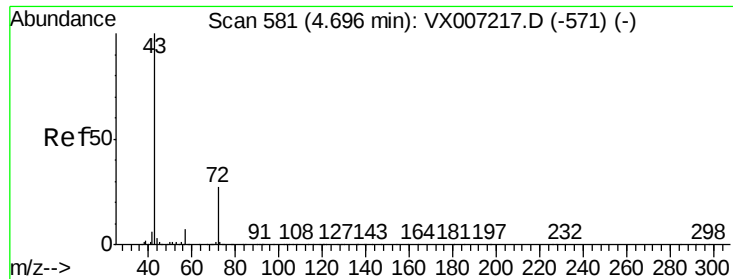
Tot Ion: 65 Resp: 154013
 Ion Ratio Lower Upper
 65 100
 67 52.9 42.0 63.0



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. -0.00 min
 Lab File: VX007444.D
 Acq: 08 Feb 2019 16:09

Tgt Ion: 114 Resp: 408038
 Ion Ratio Lower Upper
 114 100
 63 0.0 14.6 21.8#
 88 14.3 11.8 17.6

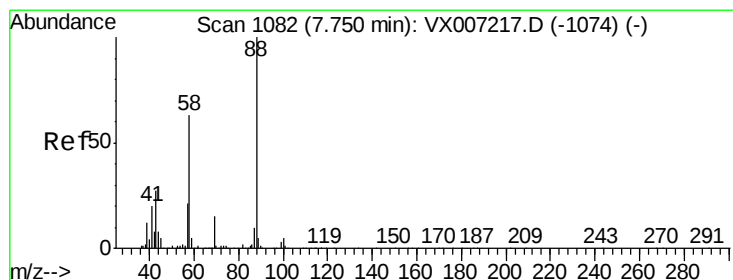
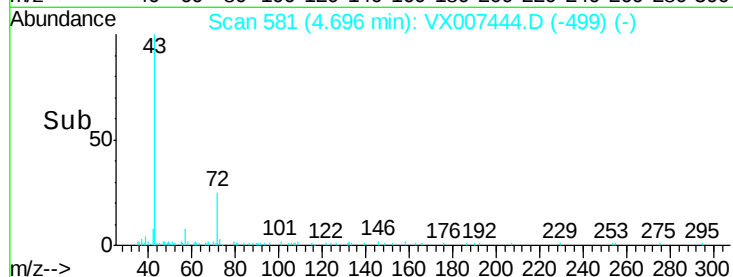
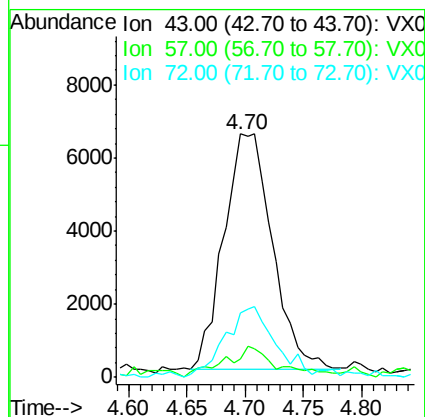
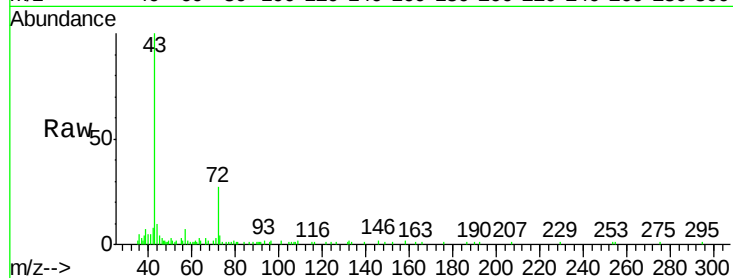




#30
2-Butanone
Concen: 5.879 ug/l
RT: 4.70 min Scan# 581
Delta R.T. -0.00 min
Lab File: VX007444.D
Acq: 08 Feb 2019 16:09

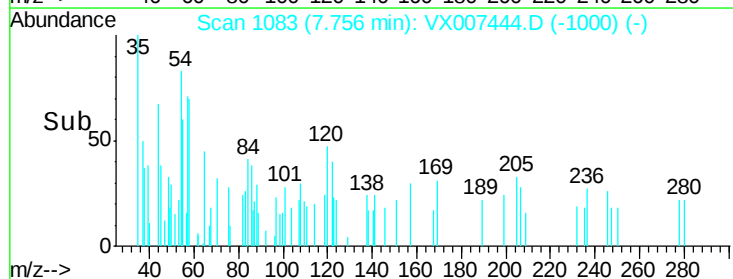
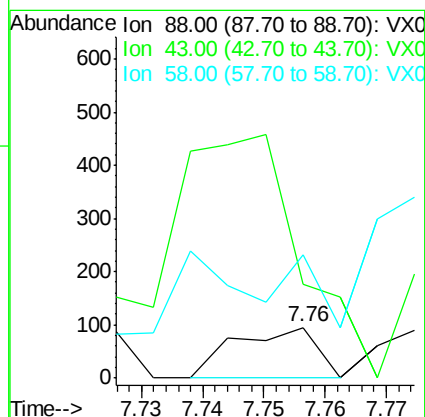
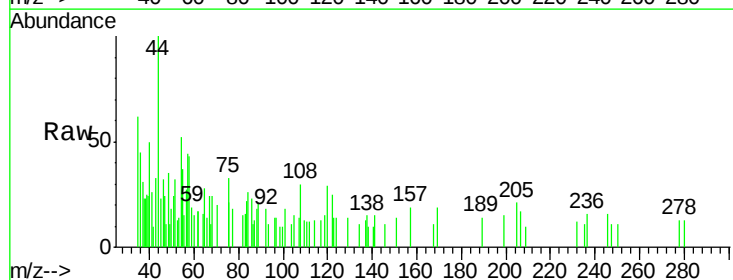
Instrument :
MSVOA_X
ClientSampled :

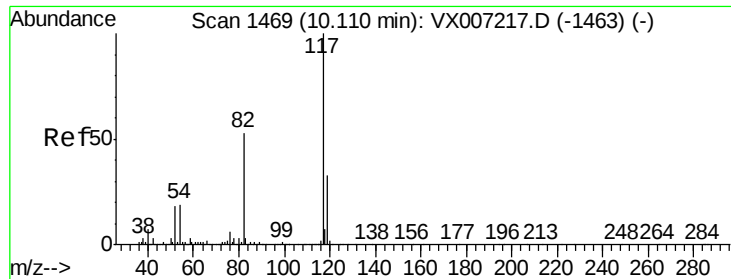
Tot Ion: 43 Resp: 18684
Ion Ratio Lower Upper
43 100
57 4.8 3.3 4.9
72 28.7 22.0 33.0



#45
1,4-Dioxane
Concen: 0.784 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX007444.D
Acq: 08 Feb 2019 16:09

Tgt Ion: 88 Resp: 88
Ion Ratio Lower Upper
88 100
43 687.5 23.5 35.3#
58 71.6 51.6 77.4

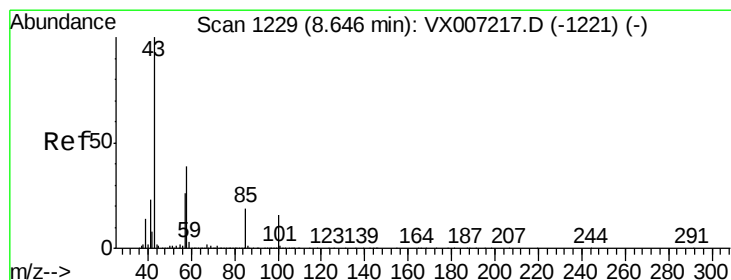
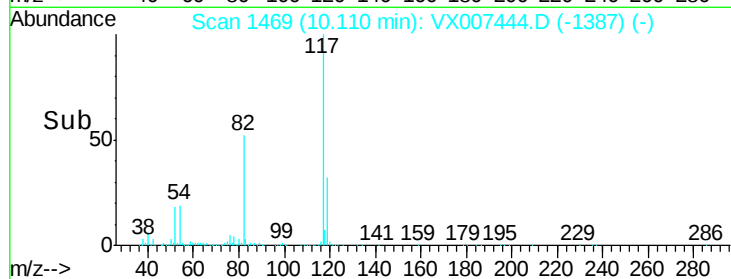
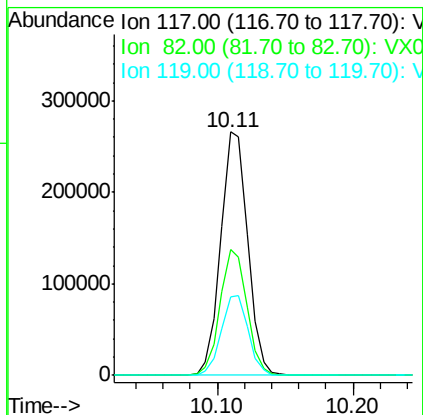
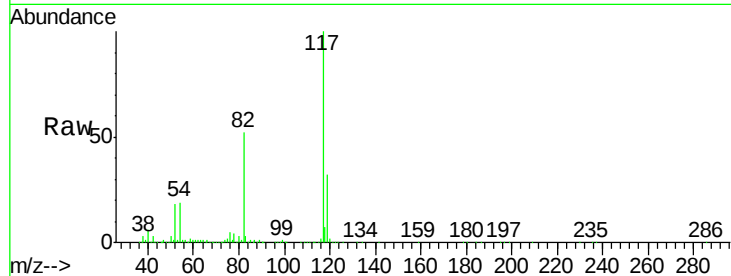




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX007444.D
Acq: 08 Feb 2019 16:09

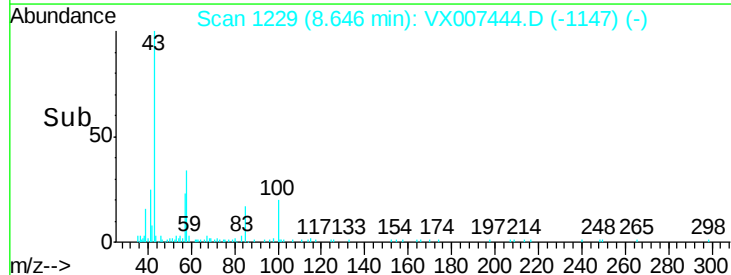
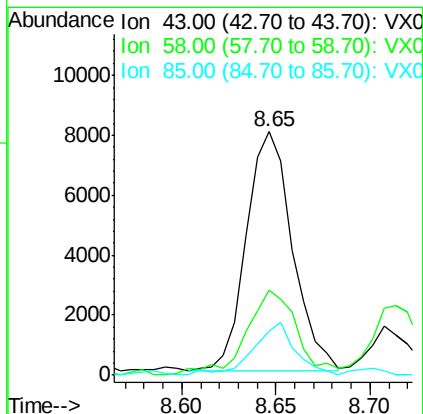
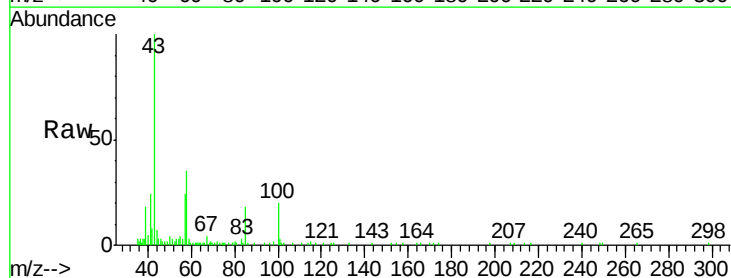
Instrument :
MSVOA_X
ClientSampleId :

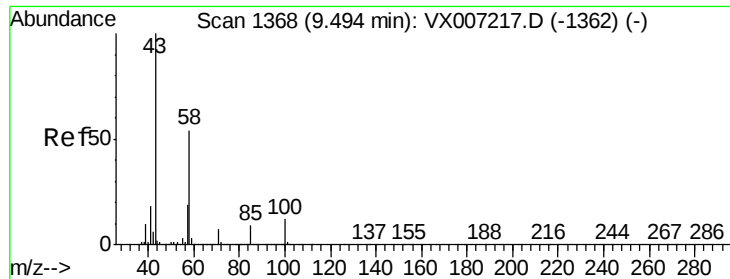
Tot Ion:117 Resp: 367230
Ion Ratio Lower Upper
117 100
82 51.3 41.4 62.0
119 32.8 25.7 38.5



#58
4-Methyl-2-Pentanone
Concen: 2.199 ug/l
RT: 8.65 min Scan# 1229
Delta R.T. -0.00 min
Lab File: VX007444.D
Acq: 08 Feb 2019 16:09

Tgt Ion: 43 Resp: 13504
Ion Ratio Lower Upper
43 100
58 33.8 31.6 47.4
85 19.2 14.9 22.3

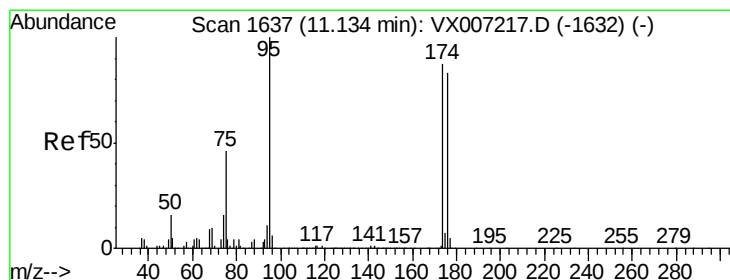
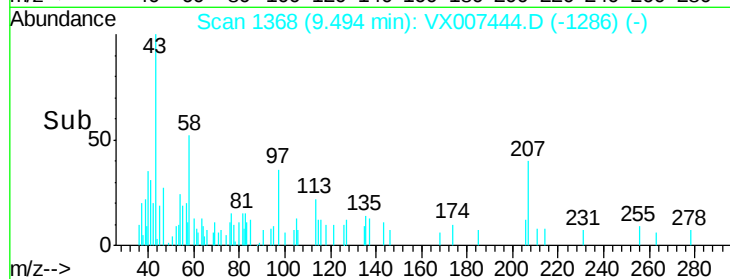
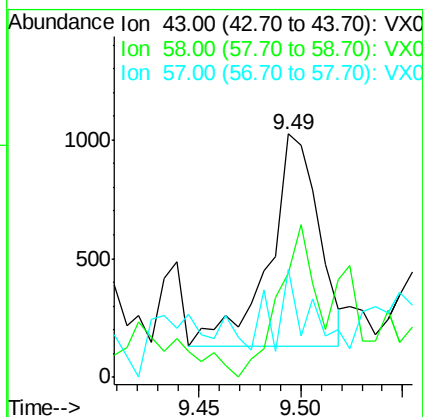
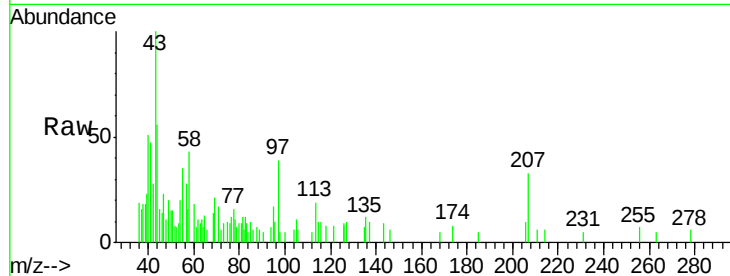




#59
2-Hexanone
Concen: 0.321 ug/l
RT: 9.49 min Scan# 1368
Delta R.T. -0.00 min
Lab File: VX007444.D
Acq: 08 Feb 2019 16:09

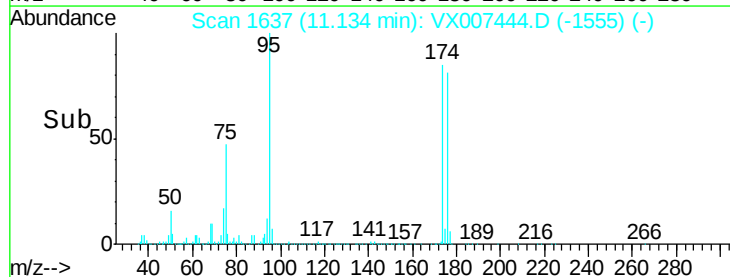
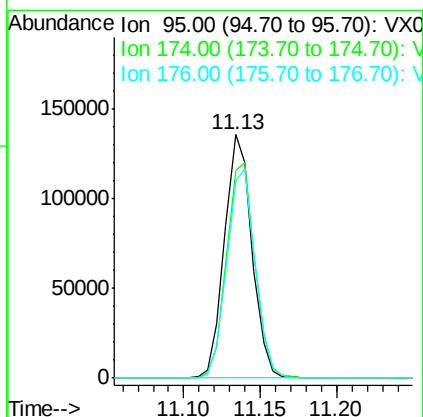
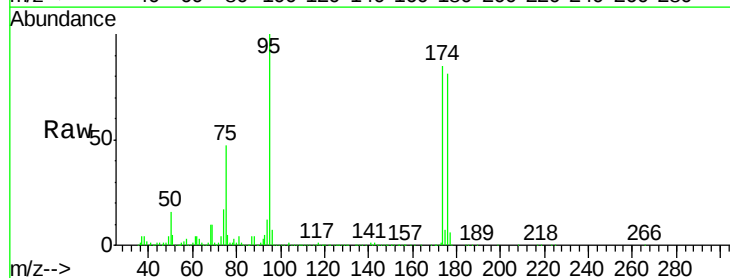
Instrument :
MSVOA_X
ClientSampled :

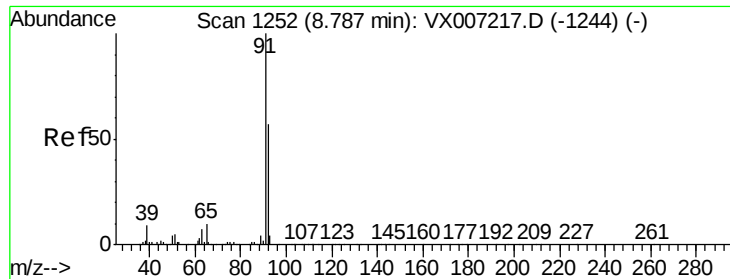
Tot Ion: 43 Resp: 1524
Ion Ratio Lower Upper
43 100
58 53.0 42.8 64.2
57 9.9 14.8 22.2#



#60
4-Bromofluorobenzene
Concen: 29.712 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX007444.D
Acq: 08 Feb 2019 16:09

Tgt Ion: 95 Resp: 168407
Ion Ratio Lower Upper
95 100
174 91.6 74.8 112.2
176 88.8 72.5 108.7





#62

Toluene

Concen: 12.922 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. -0.00 min

Lab File: VX007444.D

Acq: 08 Feb 2019 16:09

Instrument :

MSVOA_X

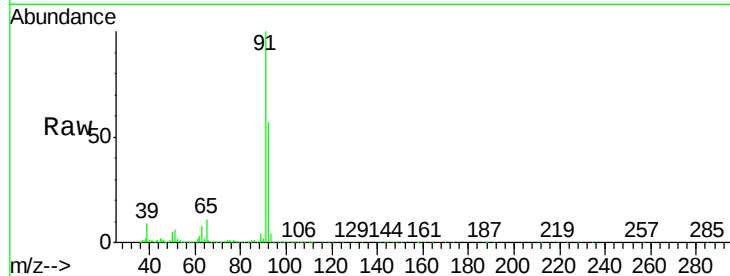
ClientSampleId :

Tot Ion: 91 Resp: 238859

Ion Ratio Lower Upper

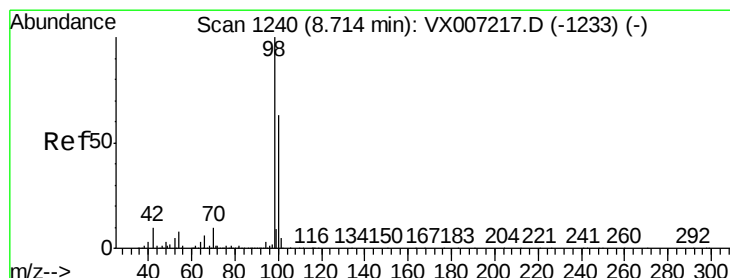
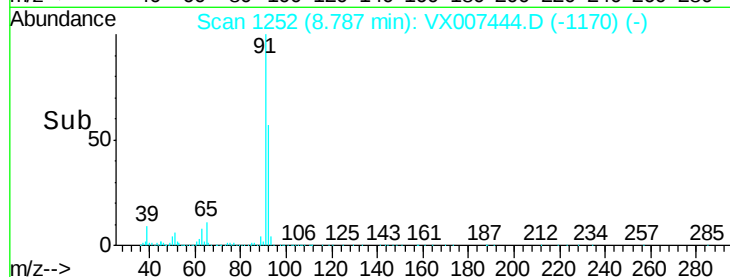
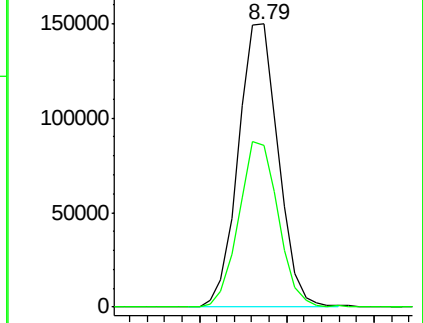
91 100

92 57.6 46.0 69.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 92.00 (91.70 to 92.70): VX0



#63

Toluene-d8

Concen: 29.121 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007444.D

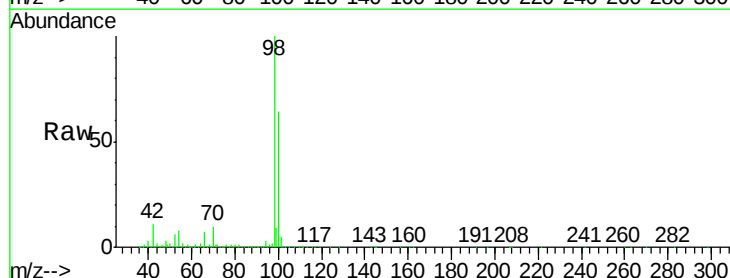
Acq: 08 Feb 2019 16:09

Tgt Ion: 98 Resp: 482030

Ion Ratio Lower Upper

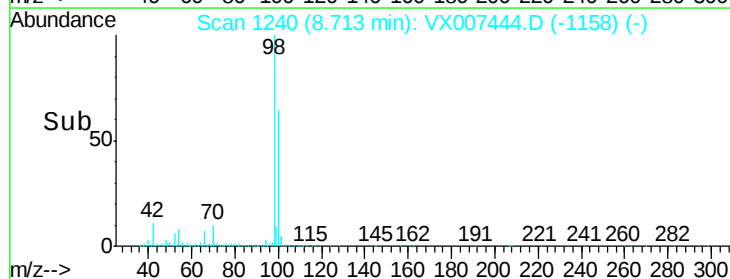
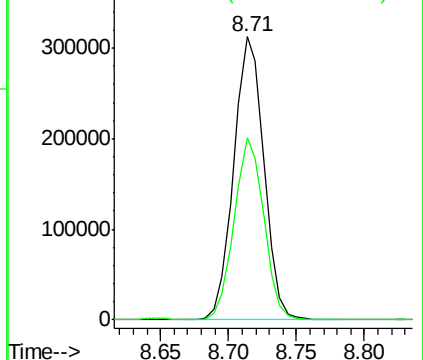
98 100

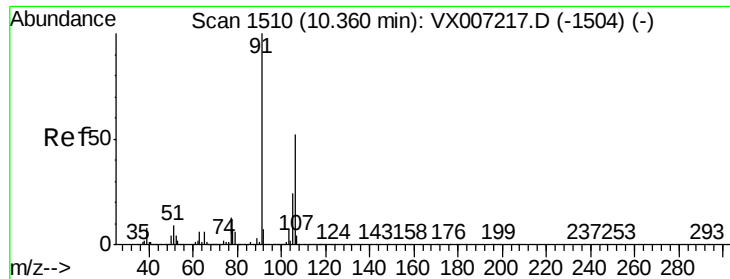
100 63.5 49.9 74.9



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

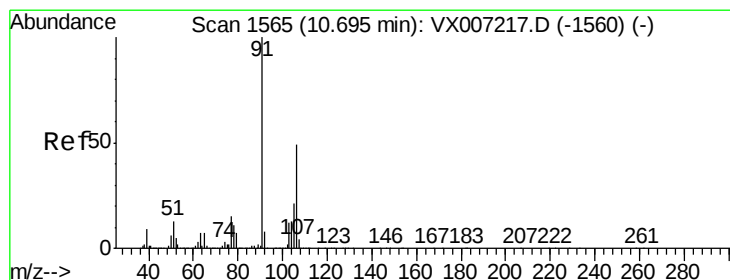
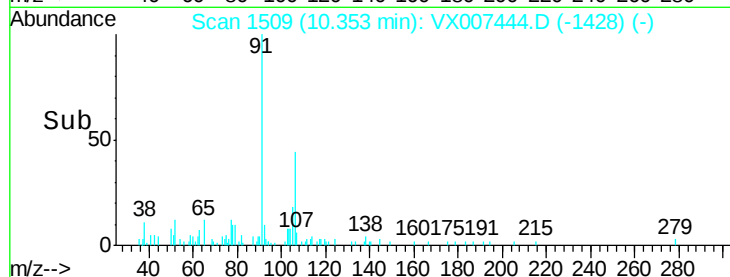
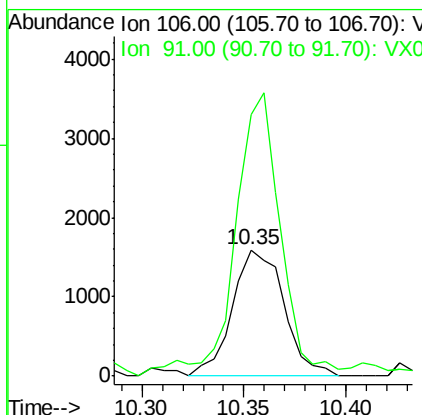
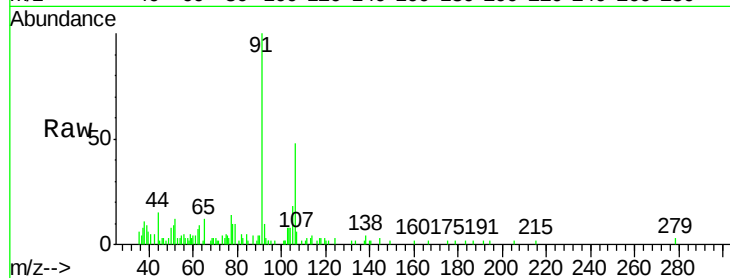




#67
m/p-Xylenes
Concen: 0.354 ug/l
RT: 10.35 min Scan# 1509
Delta R.T. -0.01 min
Lab File: VX007444.D
Acq: 08 Feb 2019 16:09

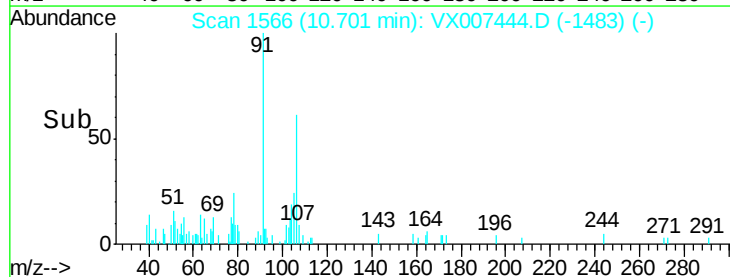
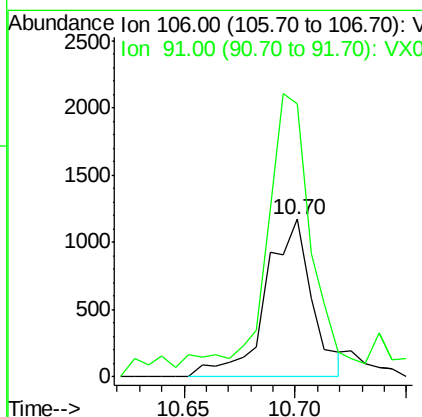
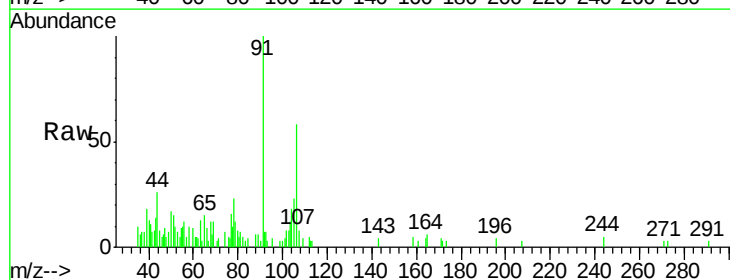
Instrument :
MSVOA_X
ClientSampled :

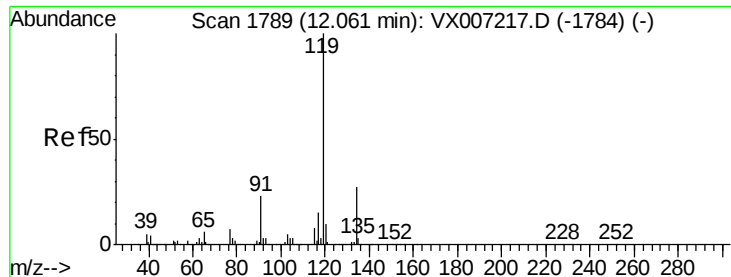
Tot Ion:106 Resp: 2801
Ion Ratio Lower Upper
106 100
91 185.9 157.6 236.4



#68
o-Xylene
Concen: 0.218 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.01 min
Lab File: VX007444.D
Acq: 08 Feb 2019 16:09

Tgt Ion:106 Resp: 1688
Ion Ratio Lower Upper
106 100
91 170.2 103.6 310.8





#79

tert-butylbenzene

Concen: 0.792 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VX007444.D

Acq: 08 Feb 2019 16:09

Instrument :

MSVOA_X

ClientSampleId :

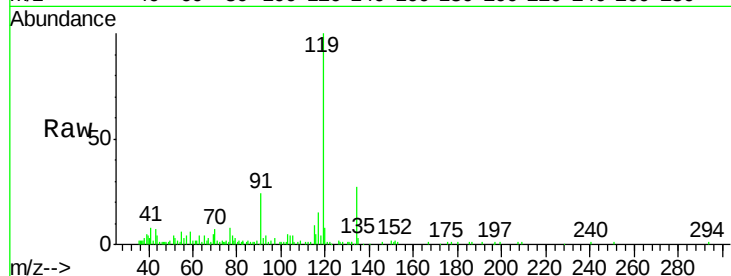
Tot Ion:119 Resp: 14675

Ion Ratio Lower Upper

119 100

91 25.4 0.0 45.0

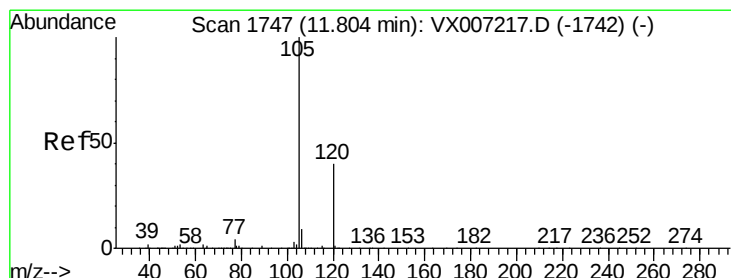
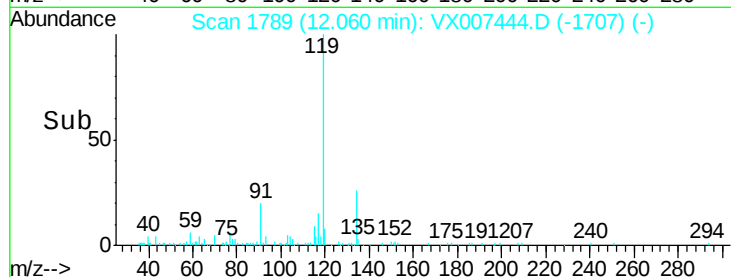
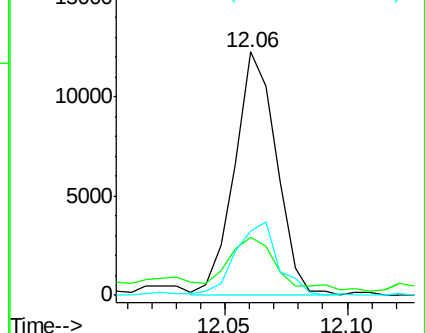
134 30.6 0.0 55.8



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VX0

Ion 134.00 (133.70 to 134.70): V



#80

1,2,4-Trimethylbenzene

Concen: 0.838 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.01 min

Lab File: VX007444.D

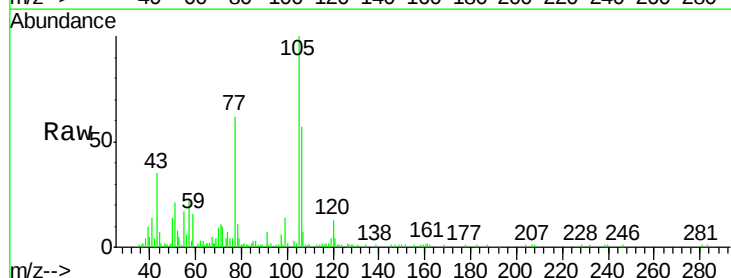
Acq: 08 Feb 2019 16:09

Tgt Ion:105 Resp: 14520

Ion Ratio Lower Upper

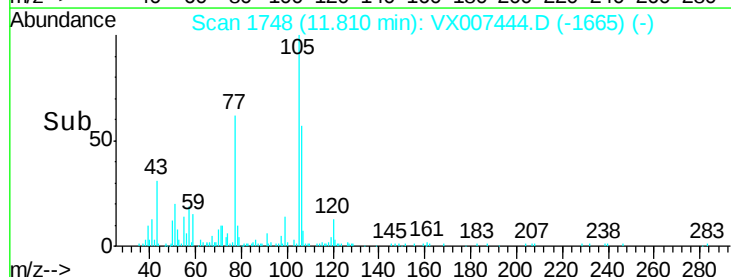
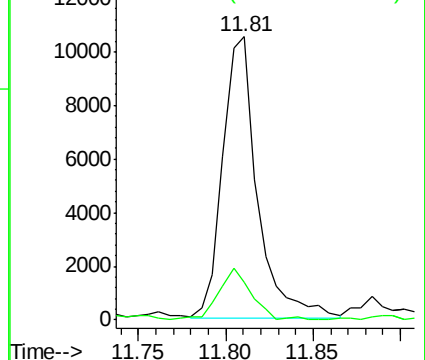
105 100

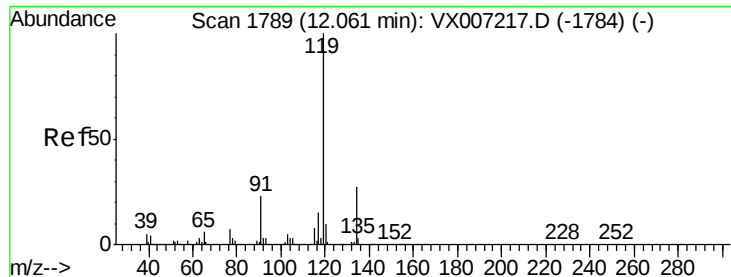
120 16.2 0.0 94.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

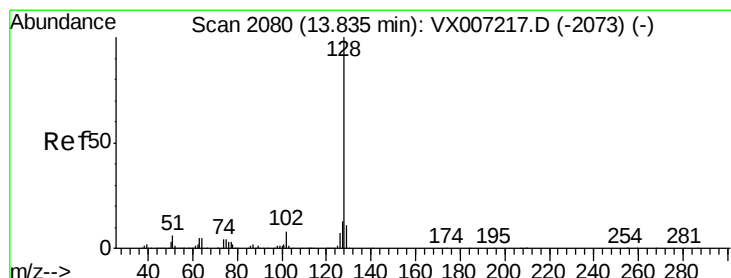
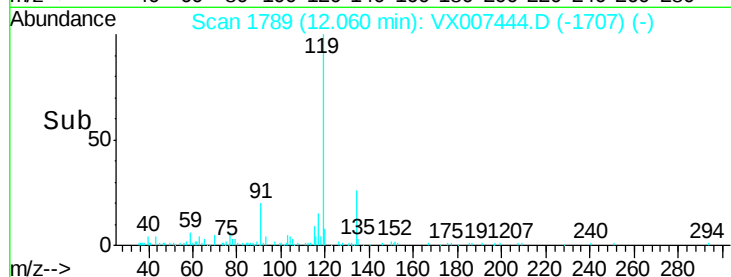
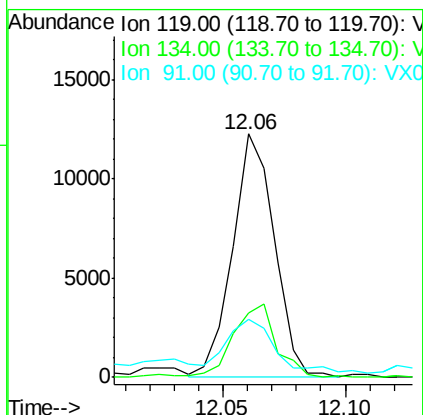
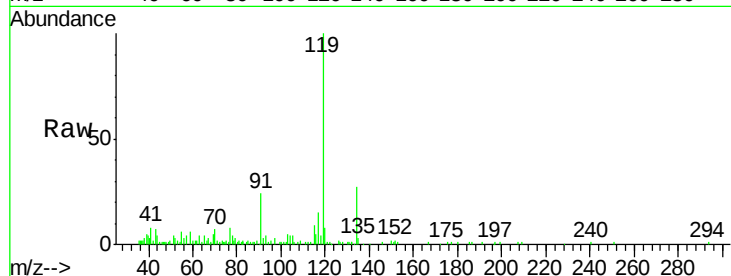




#82
p-Isopropyltoluene
Concen: 0.792 ug/l
RT: 12.06 min Scan# 1789
Delta R.T. -0.00 min
Lab File: VX007444.D
Acq: 08 Feb 2019 16:09

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:119 Resp: 14675
Ion Ratio Lower Upper
119 100
134 30.6 0.0 55.8
91 25.4 0.0 45.0



#91
Naphthalene
Concen: 0.335 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX007444.D
Acq: 08 Feb 2019 16:09

Tgt Ion:128 Resp: 7003
Ion Ratio Lower Upper
128 100
127 16.2 10.6 16.0#
129 11.8 8.9 13.3

