

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX012619\
 Data File : VX007244.D
 Acq On : 25 Jan 2019 22:01
 Operator : JC/SP
 Sample : PB116609ZHE#10
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Jan 28 00:18:57 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jan 08 14:06:59 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	525214	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	818325	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	790240	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	375802	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	285831	52.07	ug/l	0.00
Spiked Amount			Recovery	=	104.14%	
35) Dibromofluoromethane	5.51	113	255755	48.80	ug/l	0.00
Spiked Amount			Recovery	=	97.60%	
50) Toluene-d8	8.71	98	998925	52.08	ug/l	0.00
Spiked Amount			Recovery	=	104.16%	
62) 4-Bromofluorobenzene	11.13	95	349628	52.28	ug/l	0.00
Spiked Amount			Recovery	=	104.56%	

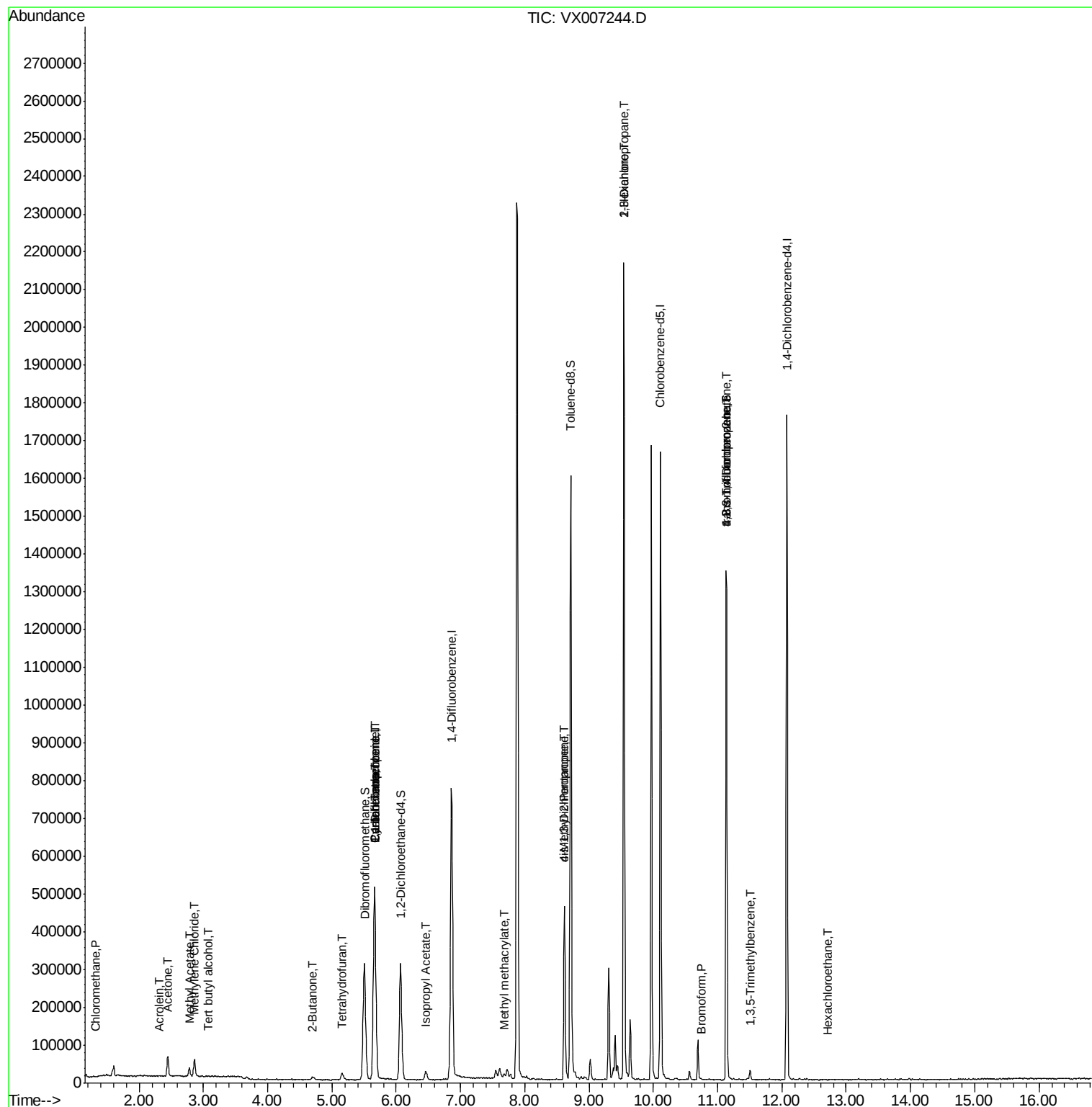
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	1171	0.233	ug/l #	43
11) Tert butyl alcohol	3.07	59	2328	1.798	ug/l #	68
13) Acrolein	2.32	56	315	3.641	ug/l #	56
16) Acetone	2.45	43	58396	21.520	ug/l	97
18) Methyl Acetate	2.78	43	29718	3.782	ug/l	98
20) Methylene Chloride	2.86	84	21991	3.737	ug/l	95
25) 2-Butanone	4.69	43	14088	3.628	ug/l	90
29) Tetrahydrofuran	5.15	42	15918	6.308	ug/l	95
31) Cyclohexane	5.66	56	8952	1.157	ug/l #	21
36) 1,1-Dichloropropene	5.67	75	33254	4.674	ug/l #	50
38) Carbon Tetrachloride	5.66	117	45958	6.420	ug/l #	15
43) Isopropyl Acetate	6.46	43	28849	2.398	ug/l	98
48) Methyl methacrylate	7.68	41	14346	2.322	ug/l #	12
49) 1,4-Dioxane	7.77	88	94	Below Cal	#	27
51) 4-Methyl-2-Pentanone	8.62	43	150377	19.448	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	73879	9.241	ug/l #	63
57) 1,3-Dichloropropane	9.54	76	17945	1.961	ug/l #	44
59) 2-Hexanone	9.54	43	241064	40.912	ug/l #	50
71) Bromoform	10.75	173	95	4.744	ug/l #	28
76) 1,2,3-Trichloropropane	11.13	75	168689	22.151	ug/l #	40
80) 1,3,5-Trimethylbenzene	11.51	105	11067	0.500	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.13	75	168689	65.573	ug/l #	10
90) Hexachloroethane	12.71	117	39	2.918	ug/l	93

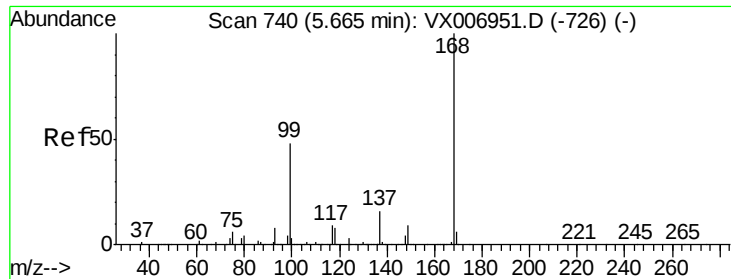
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Jan 28 00:18:57 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X010819W.M
Quant Title : SW846 8260
QLast Update : Tue Jan 08 14:06:59 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.00 min

Lab File: VX007244.D

Acq: 25 Jan 2019 22:01

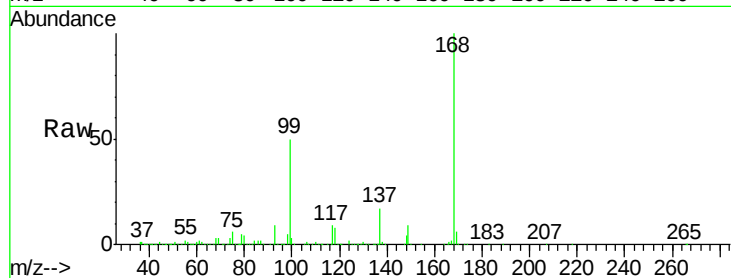
Instrument :
MSVOA_X
ClientSampled :

Tot Ion:168 Resp: 525214

Ion Ratio Lower Upper

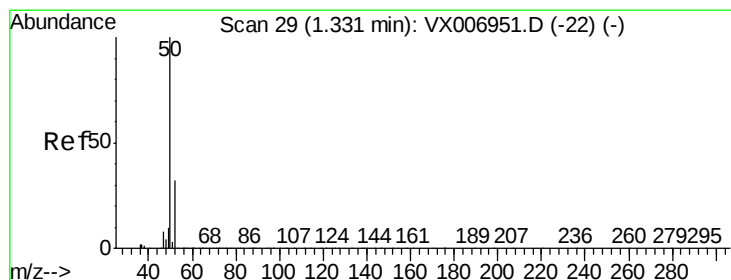
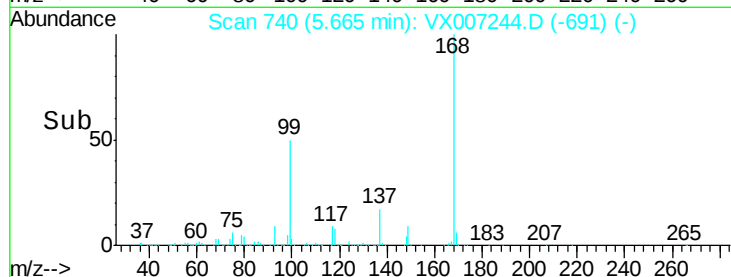
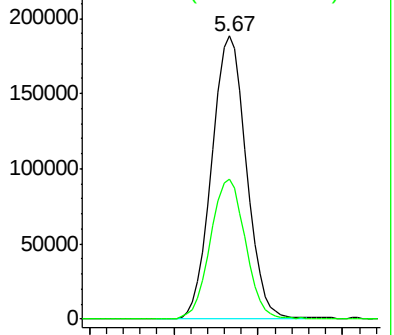
168 100

99 49.6 41.8 62.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#3

Chloromethane

Concen: 0.233 ug/l

RT: 1.32 min Scan# 28

Delta R.T. -0.01 min

Lab File: VX007244.D

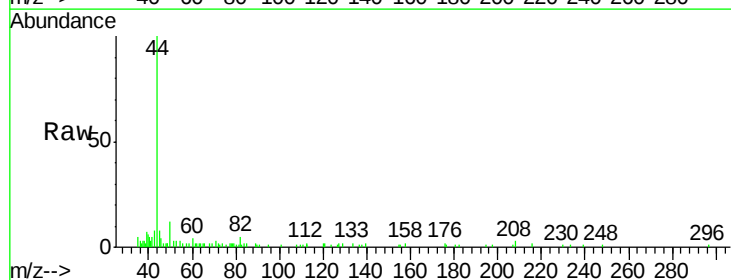
Acq: 25 Jan 2019 22:01

Tgt Ion: 50 Resp: 1171

Ion Ratio Lower Upper

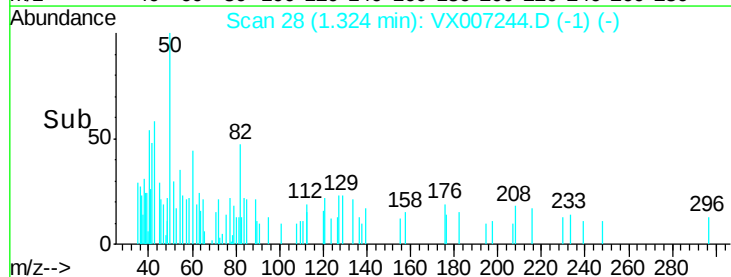
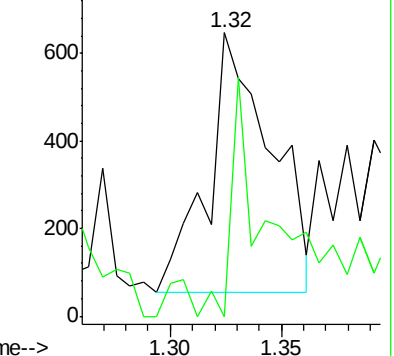
50 100

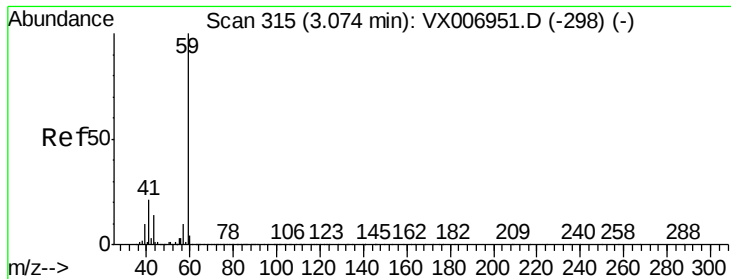
52 0.0 25.4 38.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



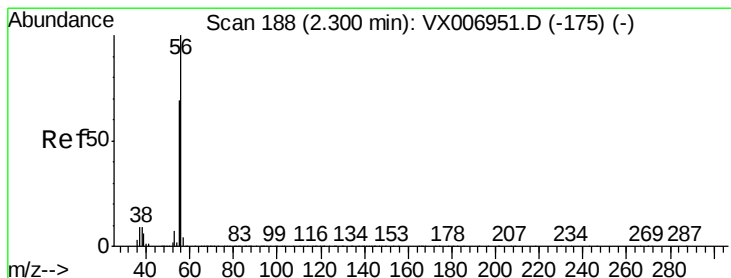
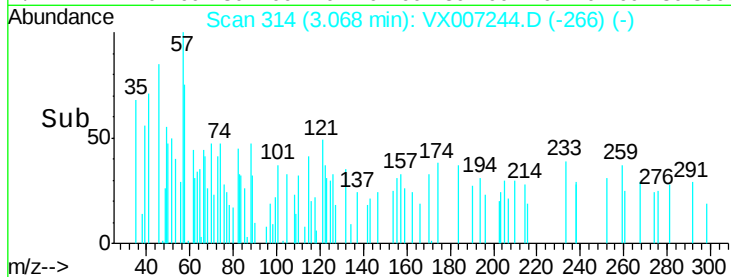
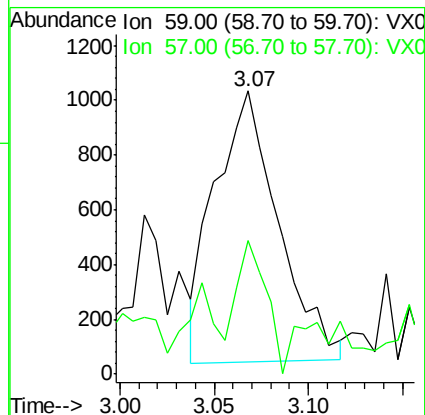
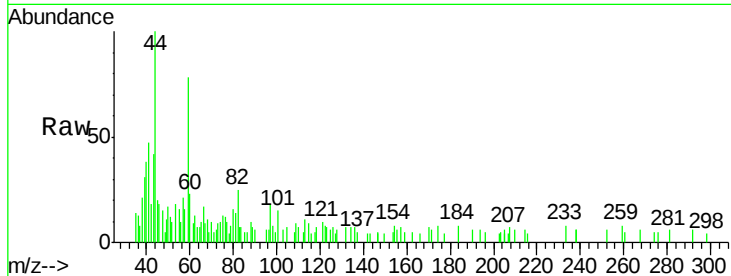


#11

Tert butvl alcohol
Concen: 1.798 ug/l
RT: 3.07 min Scan# 314
Delta R.T. -0.01 min
Lab File: VX007244.D
Acq: 25 Jan 2019 22:01

Instrument :
MSVOA_X
ClientSampled :

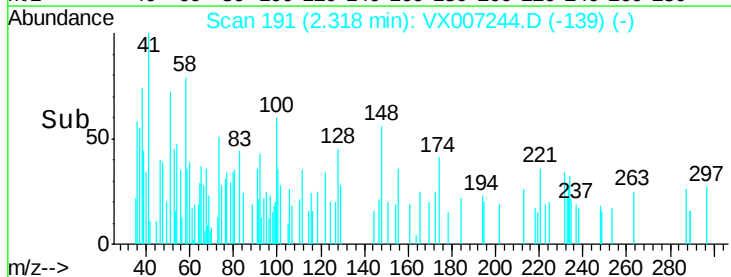
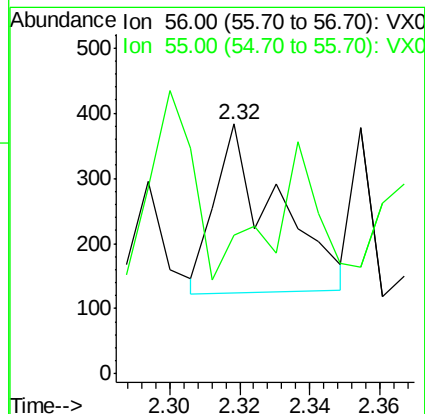
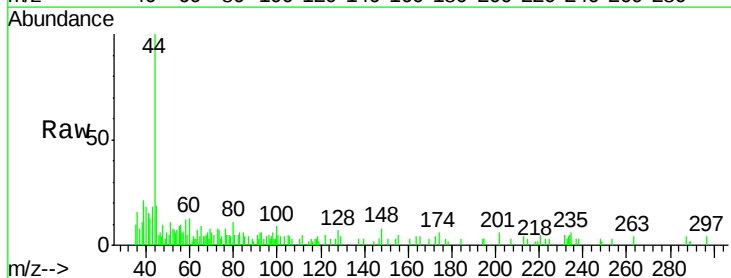
Tot Ion: 59 Resp: 2328
Ion Ratio Lower Upper
59 100
57 22.6 8.5 12.7#

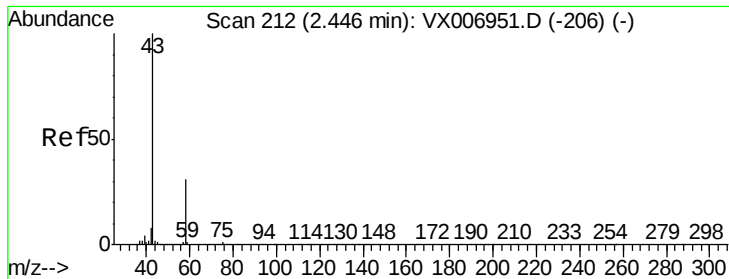


#13

Acrolein
Concen: 3.641 ug/l
RT: 2.32 min Scan# 191
Delta R.T. 0.02 min
Lab File: VX007244.D
Acq: 25 Jan 2019 22:01

Tgt Ion: 56 Resp: 315
Ion Ratio Lower Upper
56 100
55 109.8 58.2 87.4#





#16

Acetone

Concen: 21.520 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007244.D

Acq: 25 Jan 2019 22:01

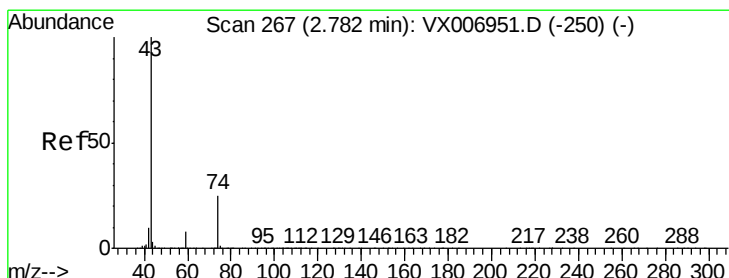
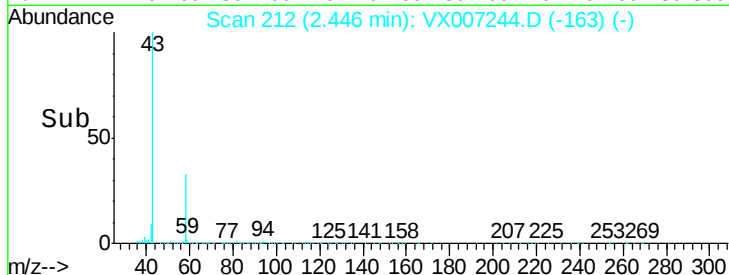
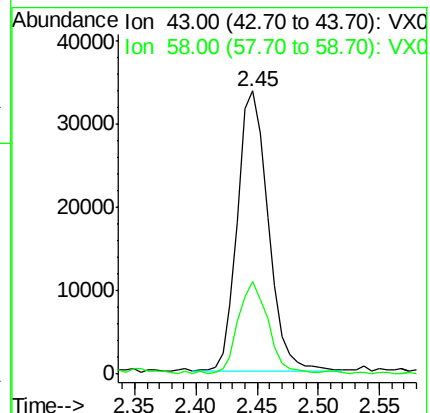
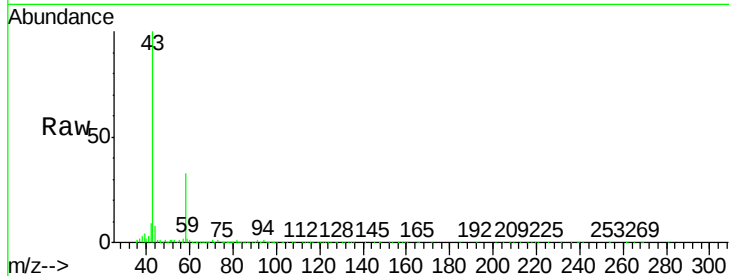
Instrument :
MSVOA_X
ClientSampleId :

Tot Ion: 43 Resp: 58396

Ion Ratio Lower Upper

43 100

58 32.7 25.0 37.6



#18

Methyl Acetate

Concen: 3.782 ug/l

RT: 2.78 min Scan# 267

Delta R.T. -0.00 min

Lab File: VX007244.D

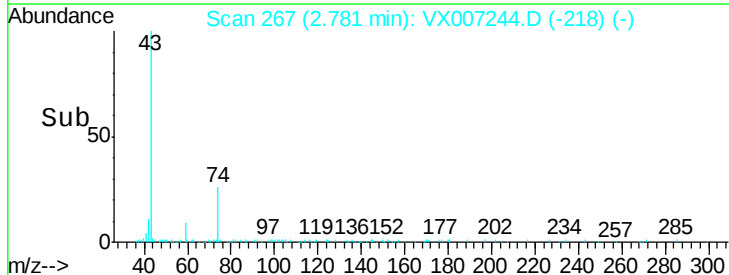
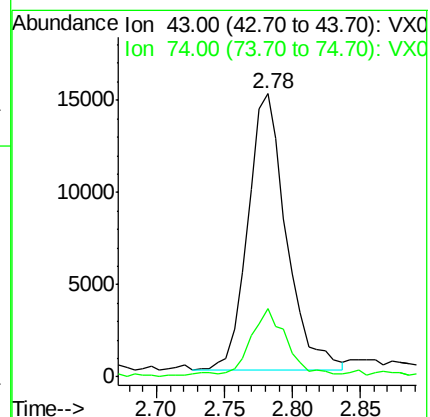
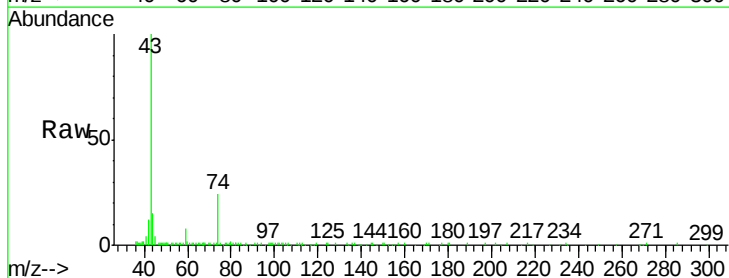
Acq: 25 Jan 2019 22:01

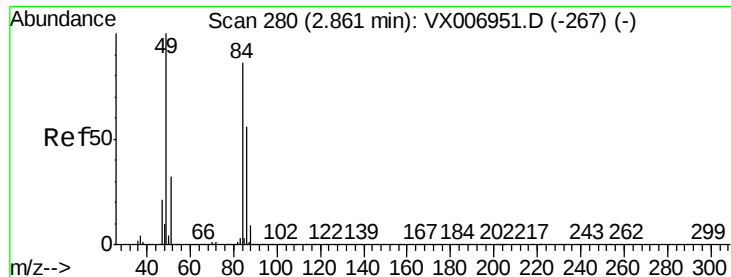
Tgt Ion: 43 Resp: 29718

Ion Ratio Lower Upper

43 100

74 22.1 18.6 28.0

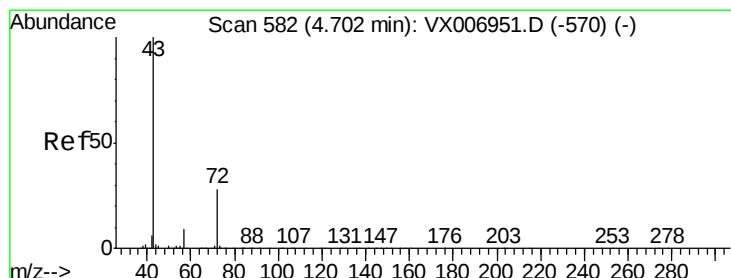
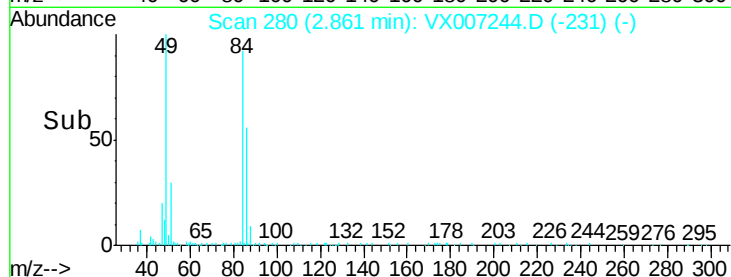
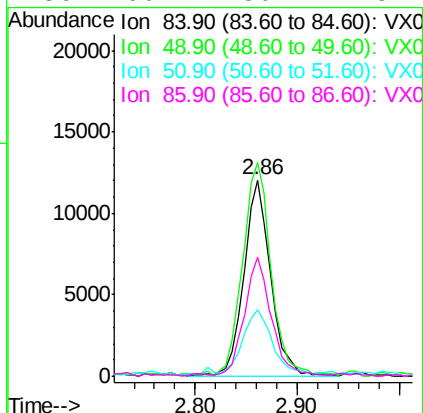
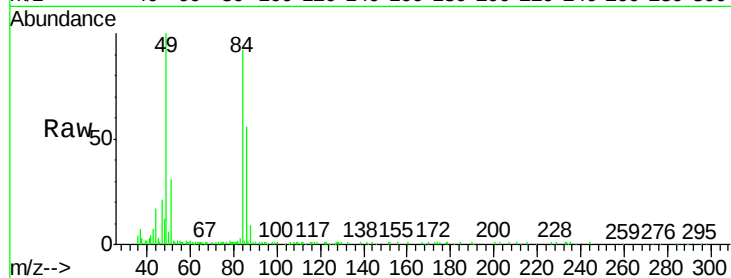




#20
Methvlene Chloride
Concen: 3.737 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007244.D
Acq: 25 Jan 2019 22:01

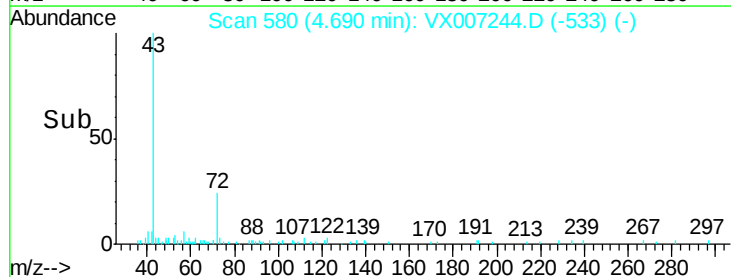
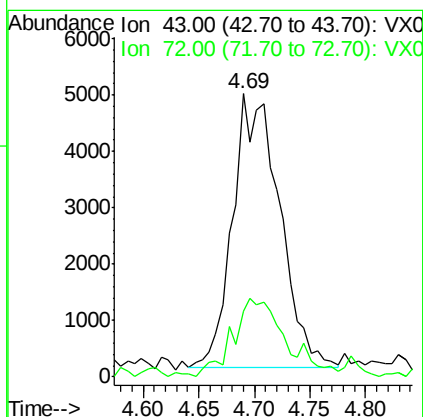
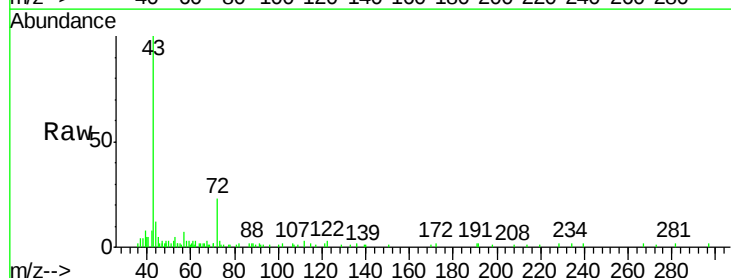
Instrument :
MSVOA_X
ClientSampleId :

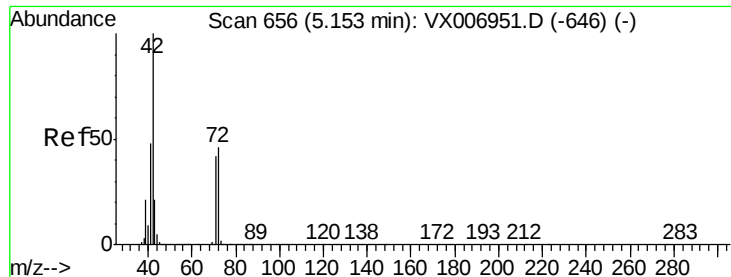
Tot Ion:	84	Resp:	21991
Ion	Ratio	Lower	Upper
84	100		
49	107.8	91.8	137.6
51	32.7	28.5	42.7
86	60.4	50.2	75.2



#25
2-Butanone
Concen: 3.628 ug/l
RT: 4.69 min Scan# 580
Delta R.T. -0.01 min
Lab File: VX007244.D
Acq: 25 Jan 2019 22:01

Tgt Ion:	43	Resp:	14088
Ion	Ratio	Lower	Upper
43	100		
72	22.6	22.4	33.6





#29

Tetrahydrofuran

Concen: 6.308 ug/l

RT: 5.15 min Scan# 656

Delta R.T. -0.00 min

Lab File: VX007244.D

Acq: 25 Jan 2019 22:01

Instrument :

MSVOA_X

ClientSampleId :

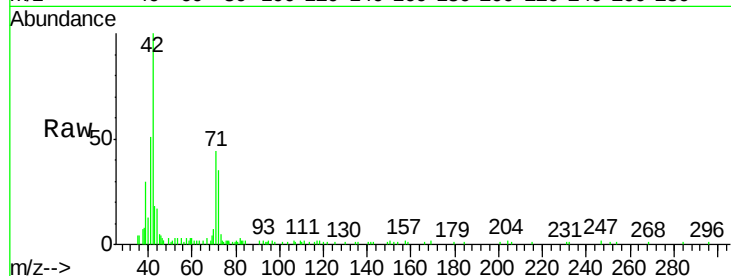
Tot Ion: 42 Resp: 15918

Ion Ratio Lower Upper

42 100

72 47.7 38.9 58.3

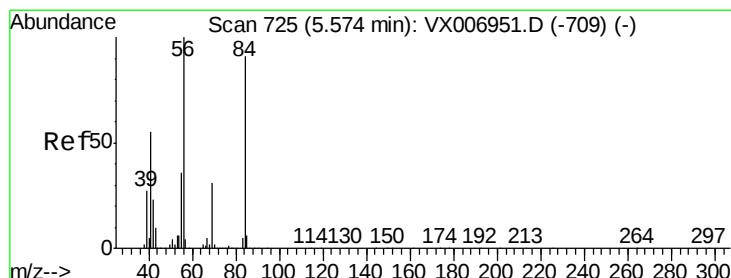
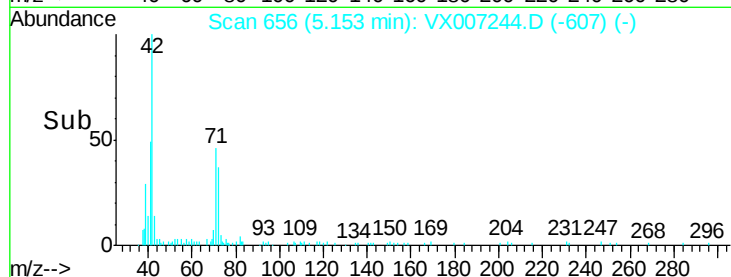
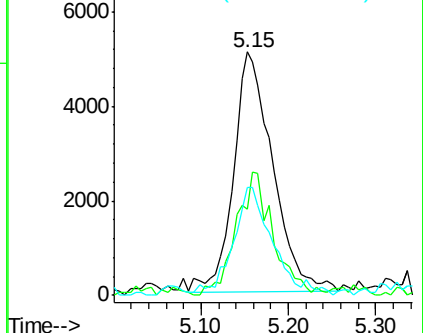
71 39.9 36.2 54.4



Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0



#31

Cyclohexane

Concen: 1.157 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX007244.D

Acq: 25 Jan 2019 22:01

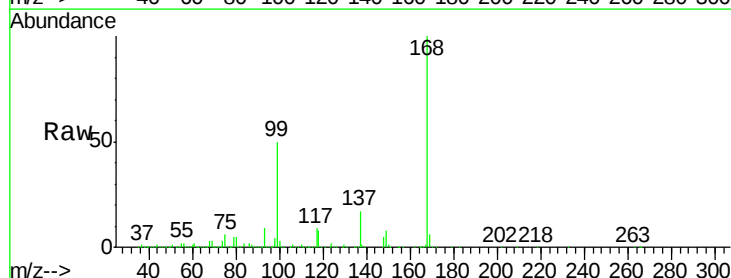
Tgt Ion: 56 Resp: 8952

Ion Ratio Lower Upper

56 100

69 156.8 24.4 36.6#

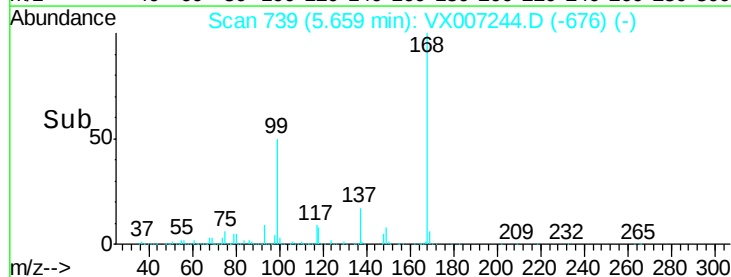
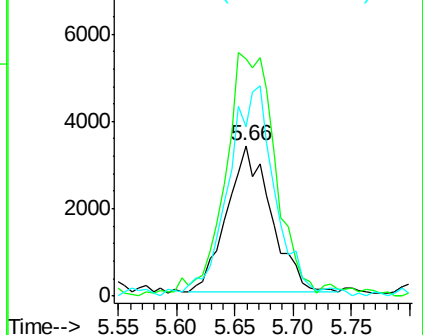
84 110.9 70.0 105.0#

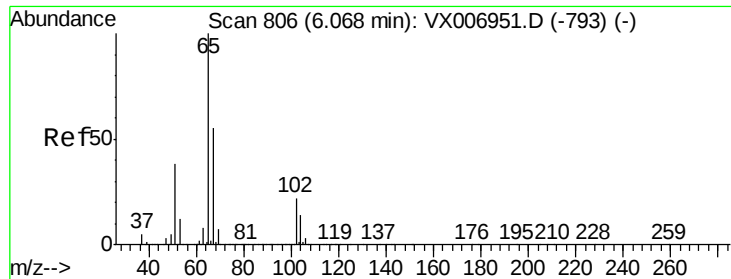


Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 69.00 (68.70 to 69.70): VX0

Ion 84.00 (83.70 to 84.70): VX0





#33

1,2-Dichloroethane-d4

Concen: 52.074 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007244.D

Acq: 25 Jan 2019 22:01

Instrument :

MSVOA_X

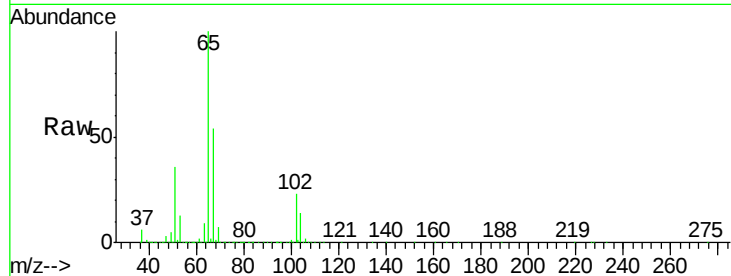
ClientSampleId :

Tot Ion: 65 Resp: 285831

Ion Ratio Lower Upper

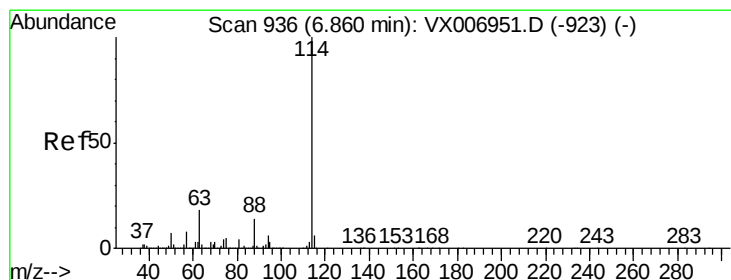
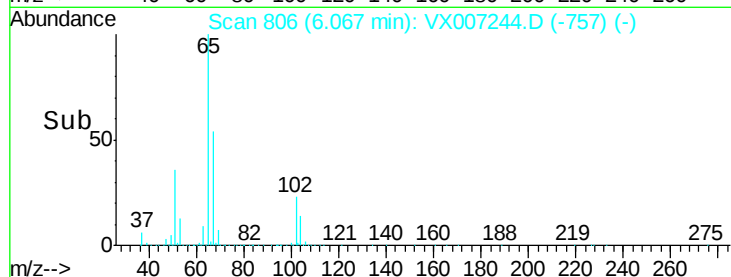
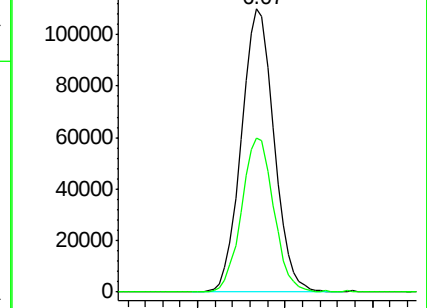
65 100

67 53.5 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX007244.D

Acq: 25 Jan 2019 22:01

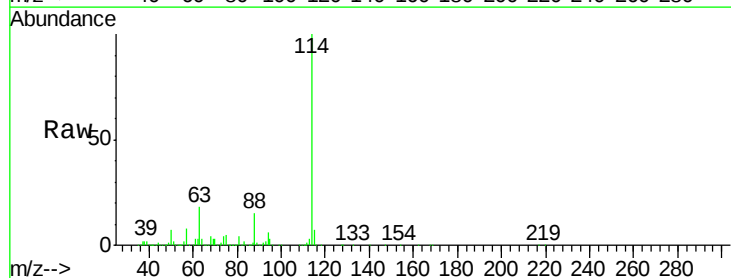
Tgt Ion: 114 Resp: 818325

Ion Ratio Lower Upper

114 100

63 18.4 0.0 34.8

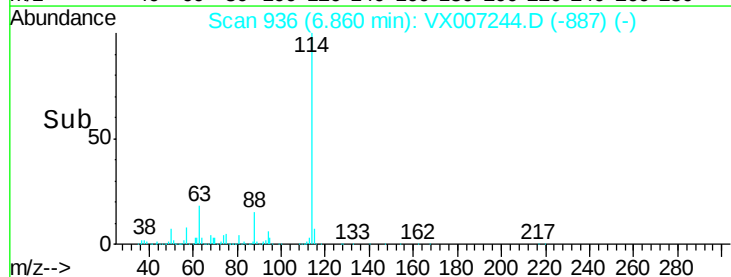
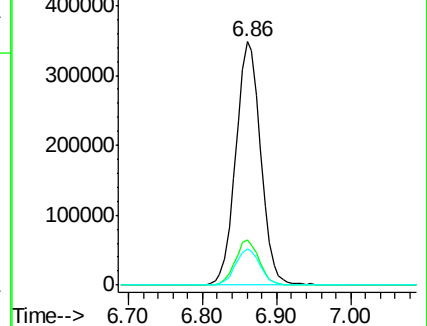
88 15.0 0.0 28.8

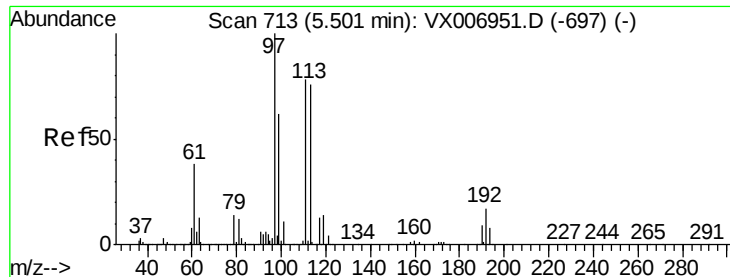


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 48.804 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX007244.D

Acq: 25 Jan 2019 22:01

Instrument :
MSVOA_X
ClientSampled :

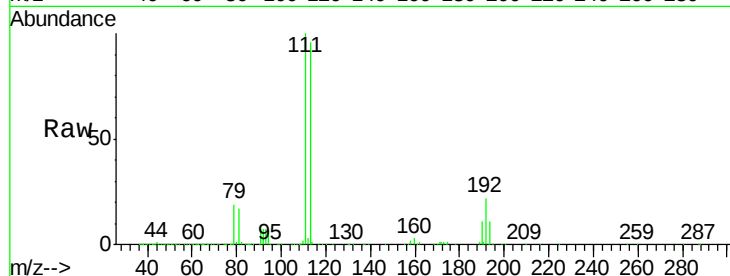
Tot Ion:113 Resp: 255755

Ion Ratio Lower Upper

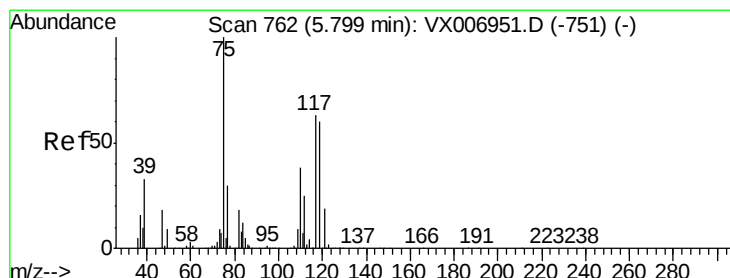
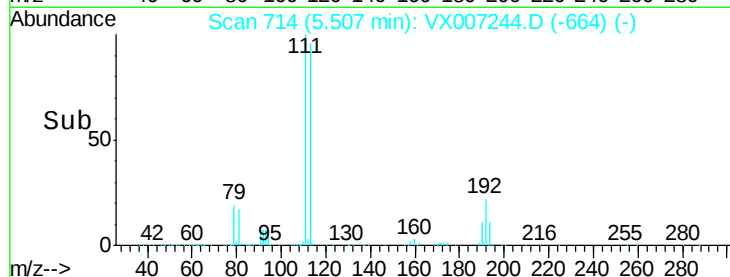
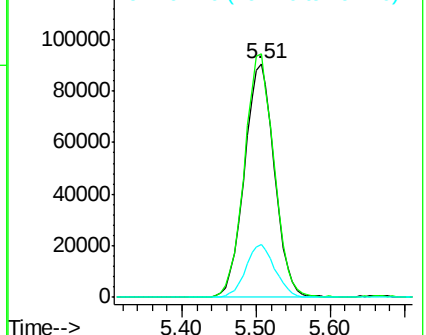
113 100

111 103.1 81.6 122.4

192 22.1 16.7 25.1



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: 4.674 ug/l

RT: 5.67 min Scan# 741

Delta R.T. -0.13 min

Lab File: VX007244.D

Acq: 25 Jan 2019 22:01

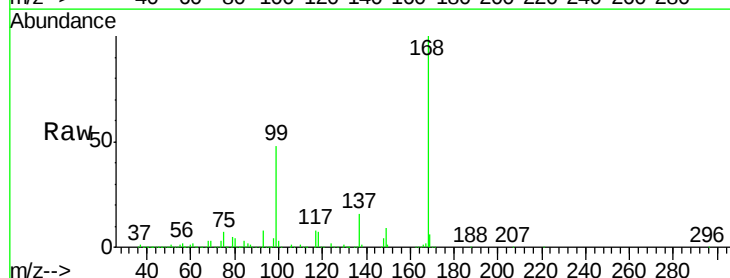
Tgt Ion: 75 Resp: 33254

Ion Ratio Lower Upper

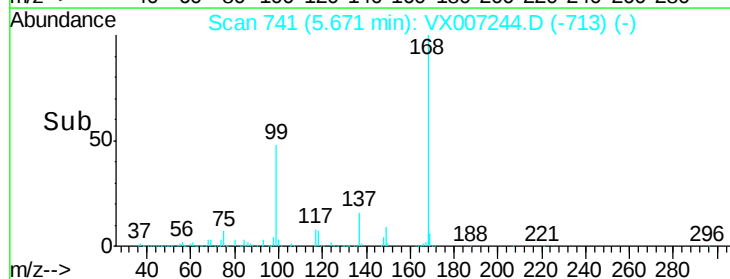
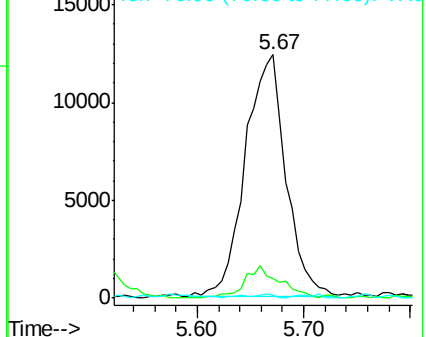
75 100

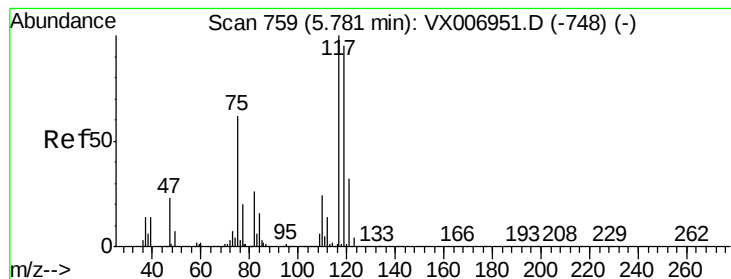
110 11.5 20.2 60.5#

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: 6.420 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007244.D

Acq: 25 Jan 2019 22:01

Instrument :

MSVOA_X

ClientSampleId :

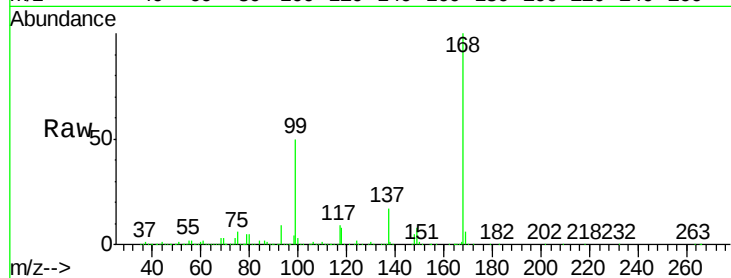
Tot Ion:117 Resp: 45958

Ion Ratio Lower Upper

117 100

119 5.3 79.4 119.2#

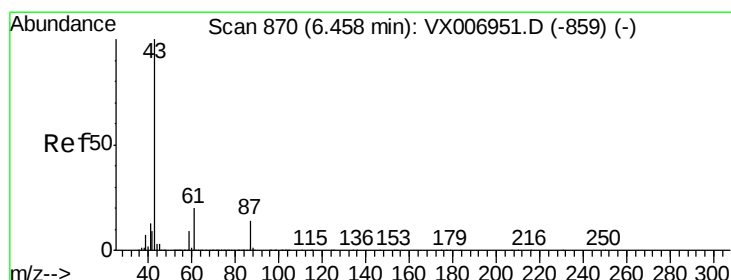
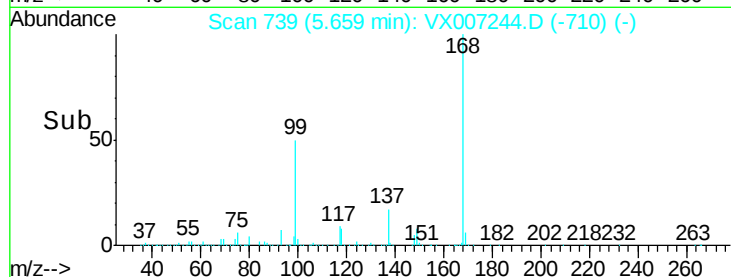
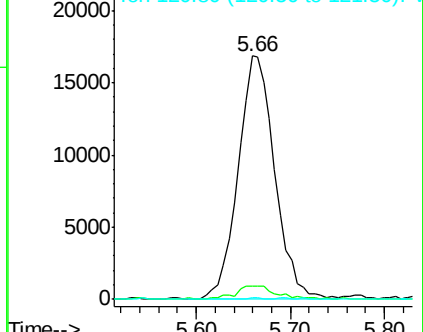
121 0.8 24.0 36.0#



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



#43

Isopropyl Acetate

Concen: 2.398 ug/l

RT: 6.46 min Scan# 870

Delta R.T. -0.00 min

Lab File: VX007244.D

Acq: 25 Jan 2019 22:01

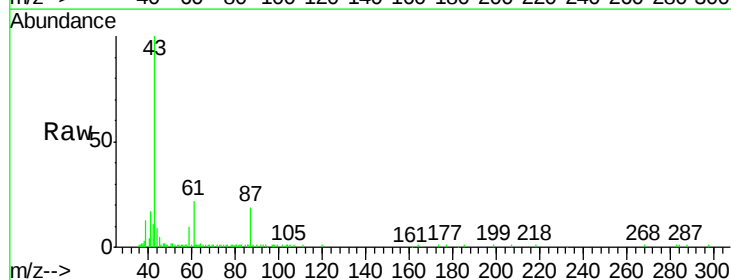
Tgt Ion: 43 Resp: 28849

Ion Ratio Lower Upper

43 100

61 21.0 16.8 25.2

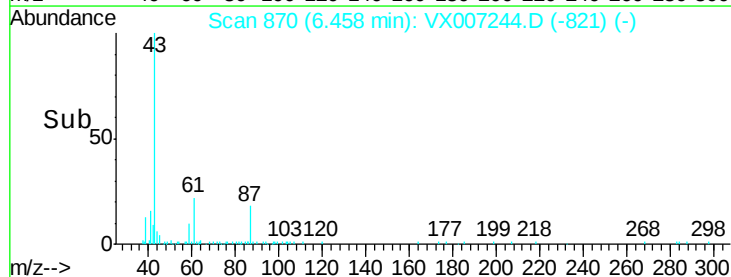
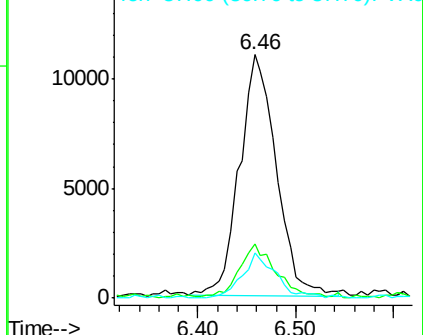
87 17.2 12.4 18.6

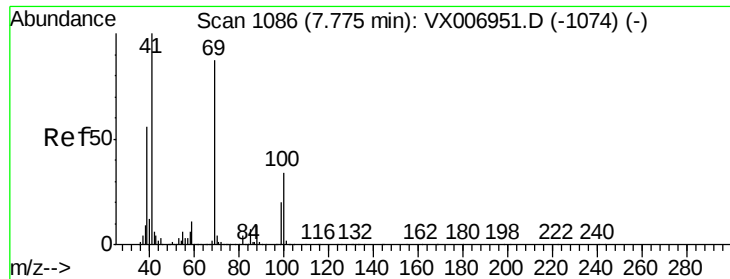


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0





#48

Methvl methacrylate

Concen: 2.322 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX007244.D

Acq: 25 Jan 2019 22:01

Instrument :
MSVOA_X
ClientSampleId :

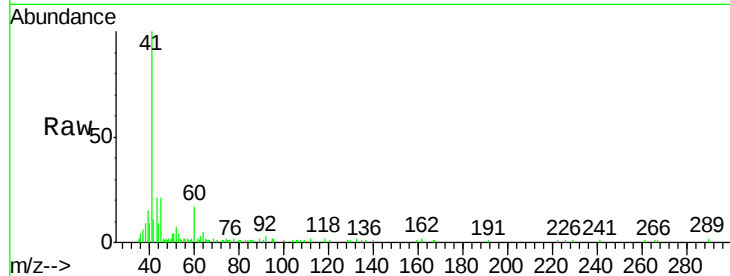
Tot Ion: 41 Resp: 14346

Ion Ratio Lower Upper

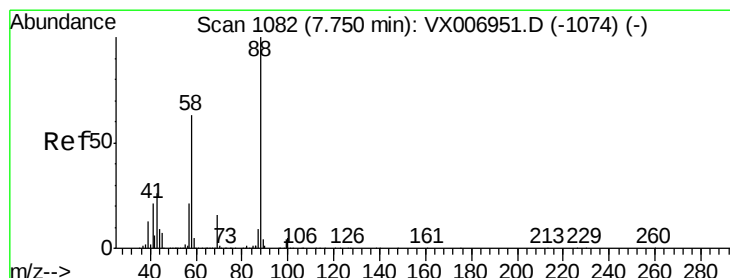
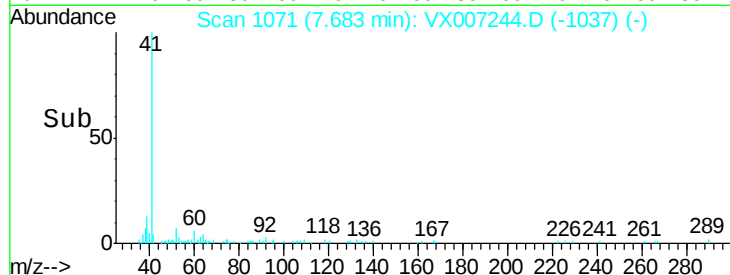
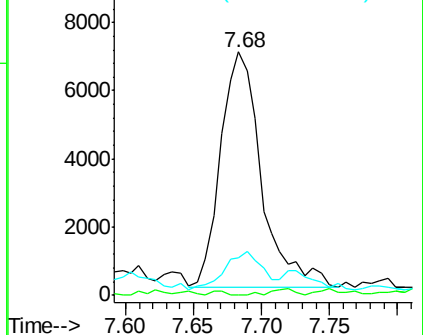
41 100

69 0.7 72.4 108.6#

39 0.0 45.8 68.8#



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



#49

1,4-Dioxane

Concen: Below Cal

RT: 7.77 min Scan# 1085

Delta R.T. 0.02 min

Lab File: VX007244.D

Acq: 25 Jan 2019 22:01

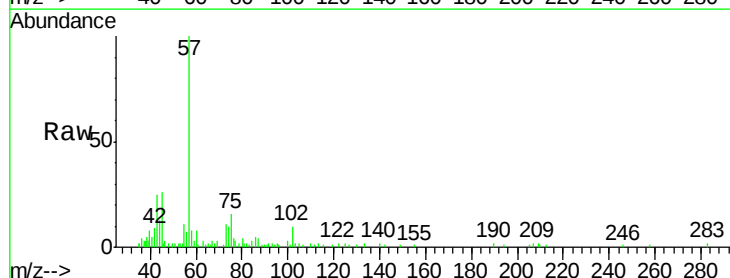
Tgt Ion: 88 Resp: 94

Ion Ratio Lower Upper

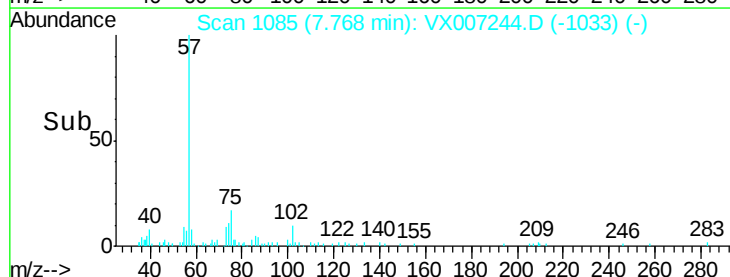
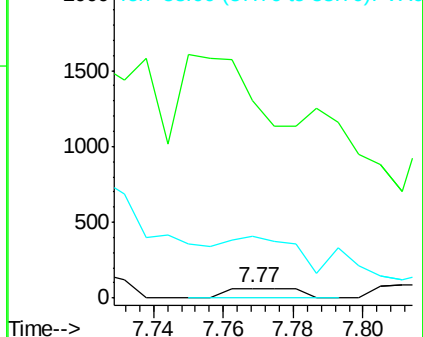
88 100

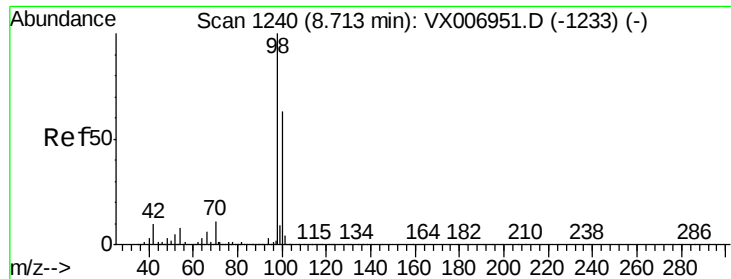
43 0.0 22.2 33.4#

58 0.0 51.0 76.4#



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: 52.077 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. -0.00 min

Lab File: VX007244.D

Acq: 25 Jan 2019 22:01

Instrument :

MSVOA_X

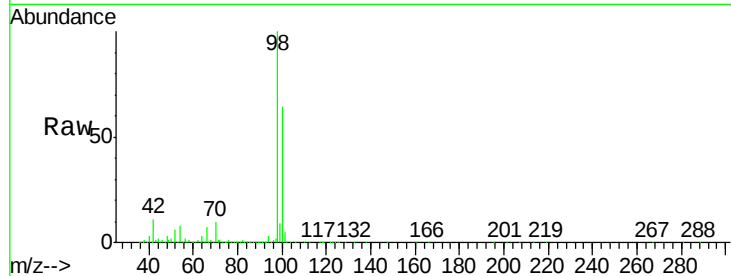
ClientSampleId :

Tot Ion: 98 Resp: 998925

Ion Ratio Lower Upper

98 100

100 64.4 52.0 78.0



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

8.71

600000

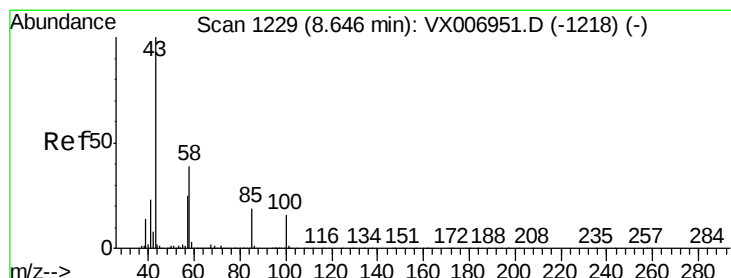
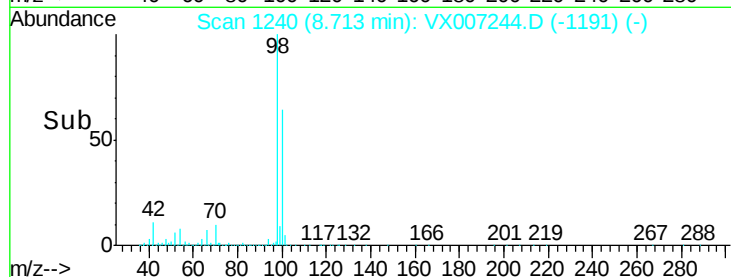
400000

200000

0

Time-->

8.60 8.70 8.80 8.90



#51

4-Methyl-2-Pentanone

Concen: 19.448 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007244.D

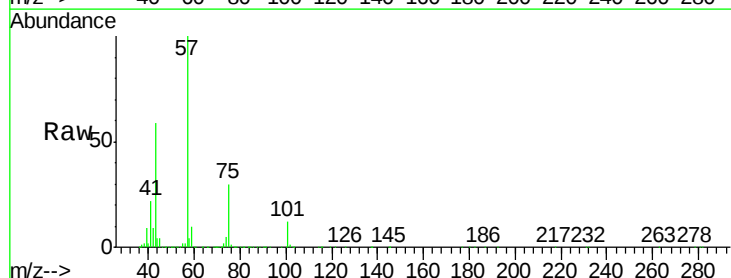
Acq: 25 Jan 2019 22:01

Tgt Ion: 43 Resp: 150377

Ion Ratio Lower Upper

43 100

58 8.7 31.8 47.6#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.62

100000

80000

60000

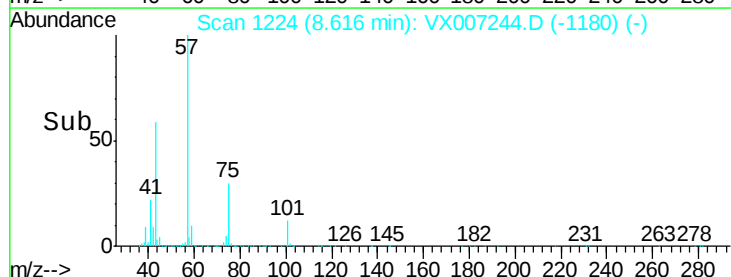
40000

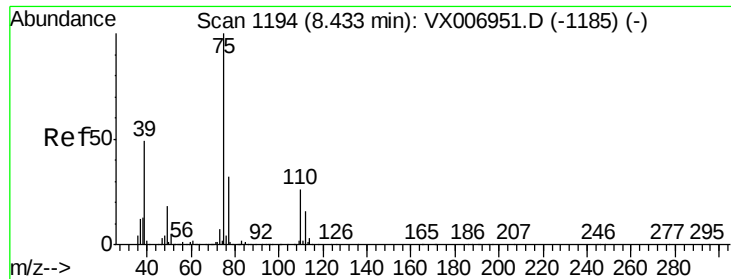
20000

0

Time-->

8.55 8.60 8.65 8.70





#54

cis-1,3-Dichloropropene

Concen: 9.241 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007244.D

Acq: 25 Jan 2019 22:01

Instrument :
MSVOA_X
ClientSampleId :

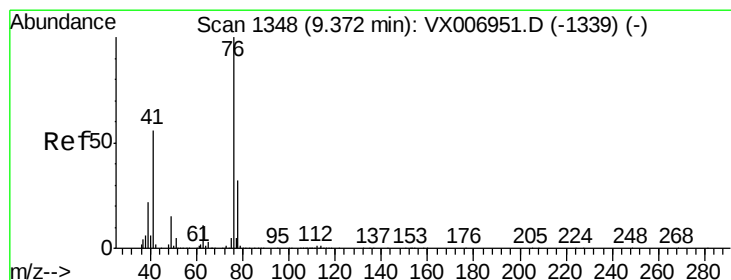
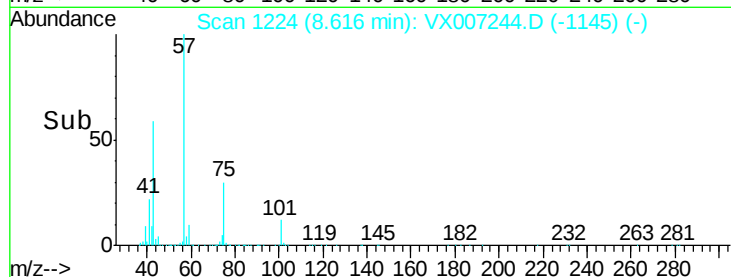
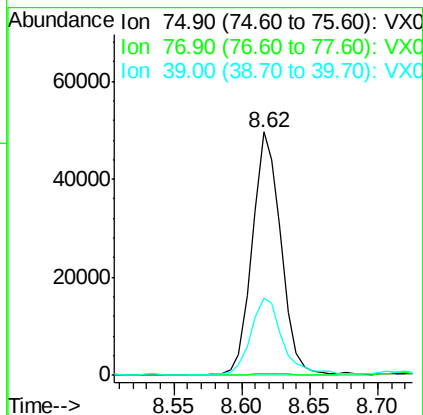
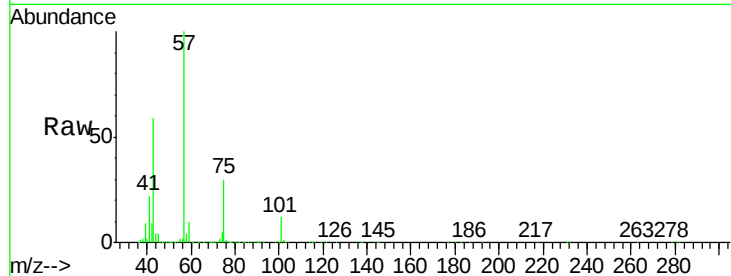
Tot Ion: 75 Resp: 73879

Ion Ratio Lower Upper

75 100

77 0.4 26.2 39.2#

39 31.1 36.7 55.1#



#57

1,3-Dichloropropane

Concen: 1.961 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007244.D

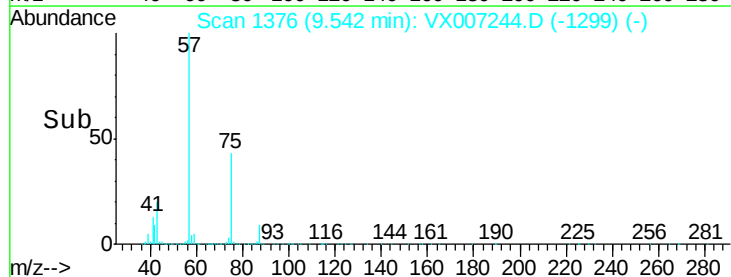
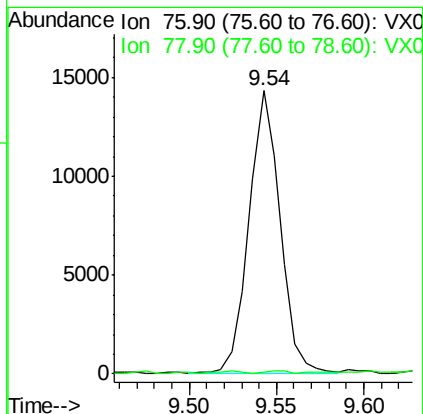
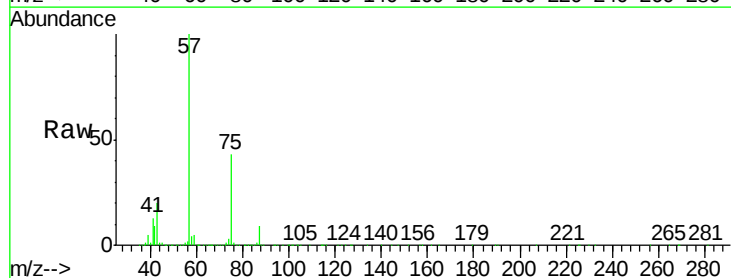
Acq: 25 Jan 2019 22:01

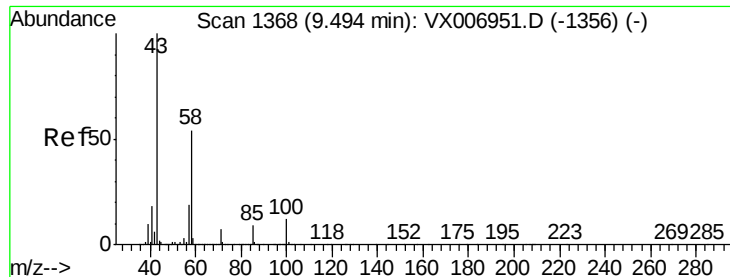
Tgt Ion: 76 Resp: 17945

Ion Ratio Lower Upper

76 100

78 1.3 26.0 39.0#

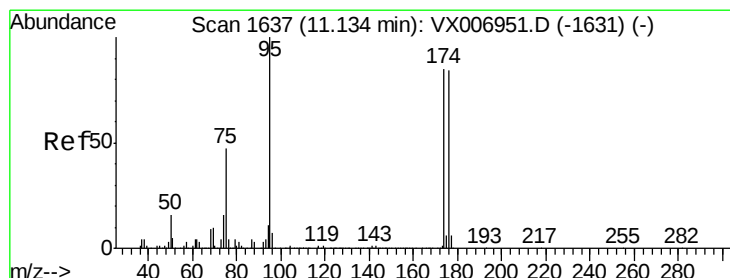
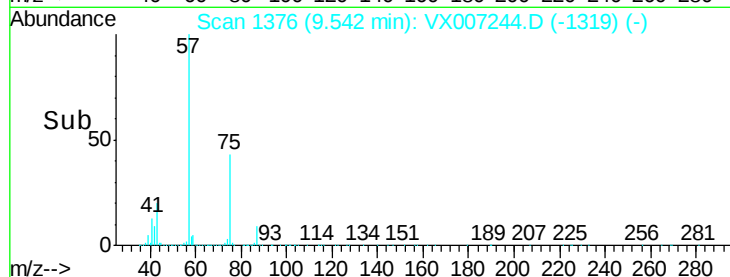
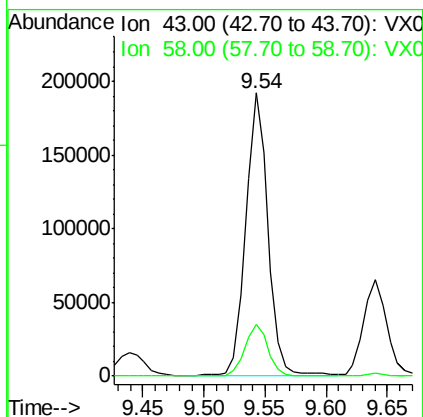
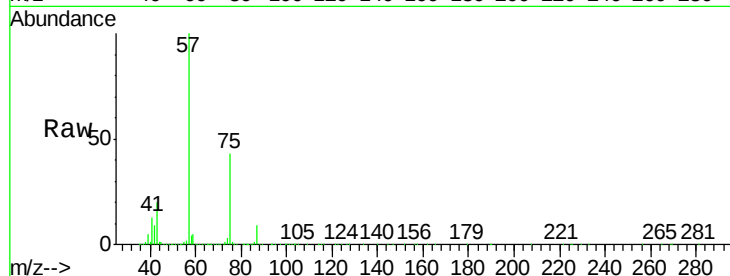




#59
2-Hexanone
Concen: 40.912 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX007244.D
Acq: 25 Jan 2019 22:01

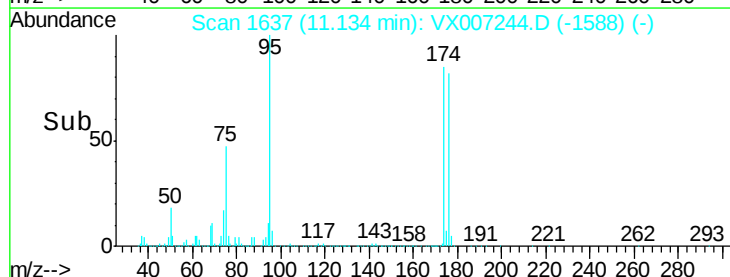
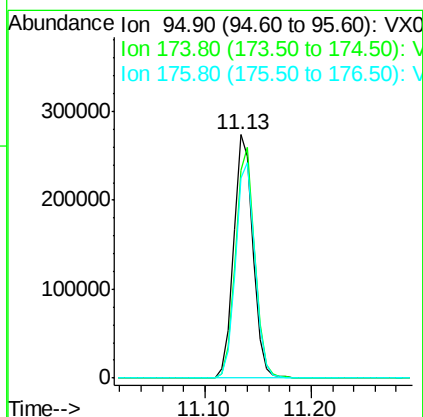
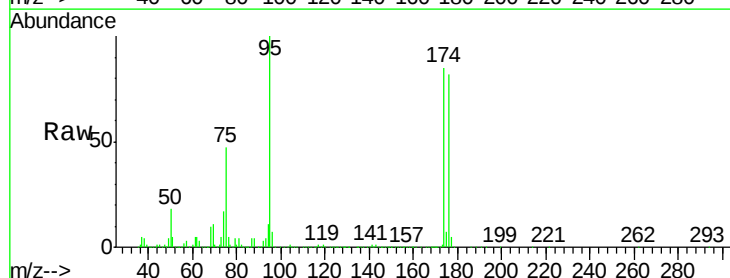
Instrument :
MSVOA_X
ClientSampled :

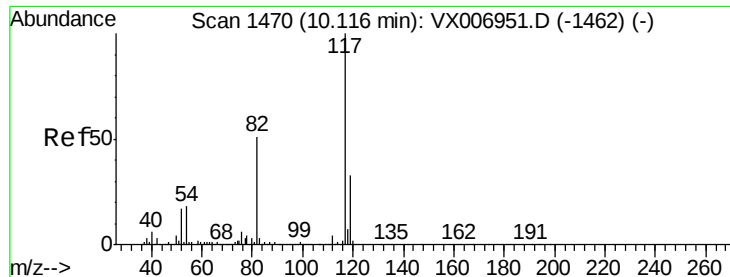
Tot Ion: 43 Resp: 241064
Ion Ratio Lower Upper
43 100
58 19.3 27.7 83.1#



#62
4-Bromofluorobenzene
Concen: 52.283 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.00 min
Lab File: VX007244.D
Acq: 25 Jan 2019 22:01

Tgt Ion: 95 Resp: 349628
Ion Ratio Lower Upper
95 100
174 94.0 0.0 182.2
176 89.0 0.0 178.8

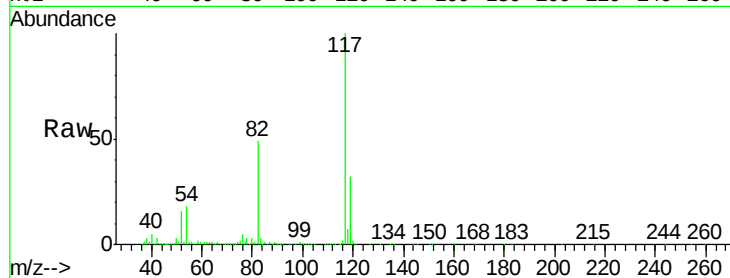




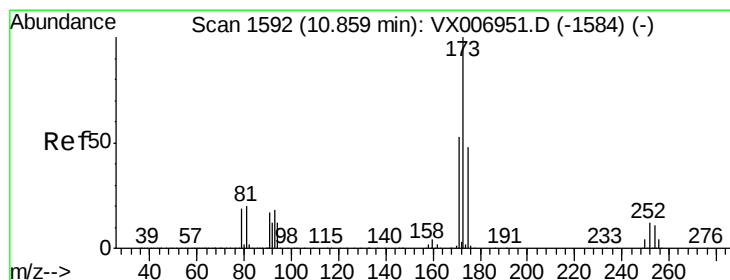
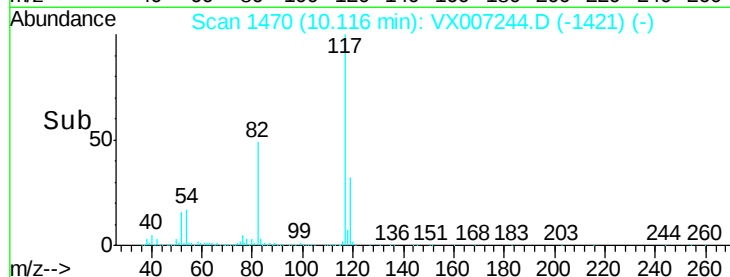
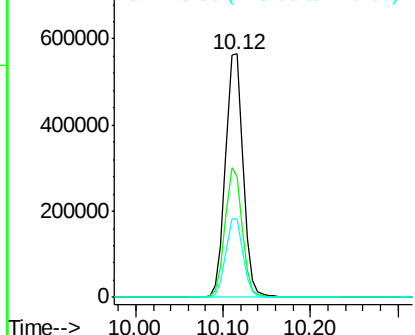
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VX007244.D
Acq: 25 Jan 2019 22:01

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion:117 Resp: 790240
Ion Ratio Lower Upper
117 100
82 49.3 41.0 61.6
119 32.4 25.4 38.0

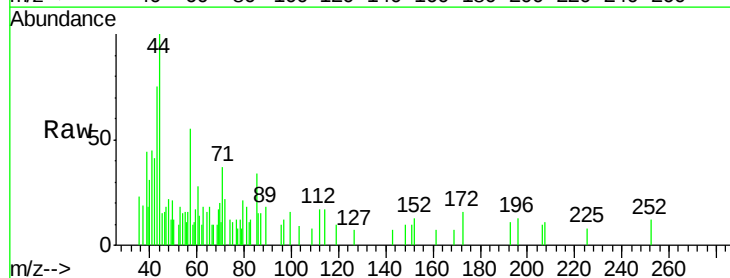


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): V
Ion 118.90 (118.60 to 119.60): V

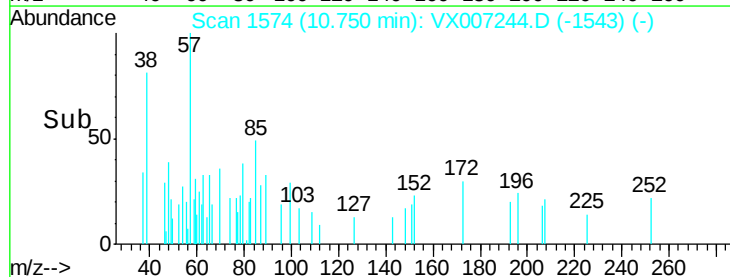
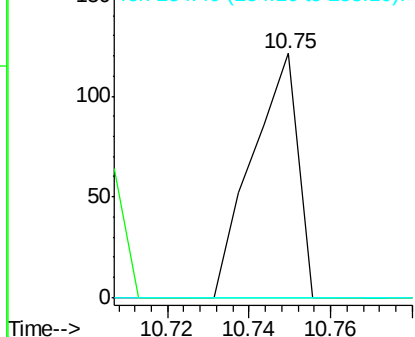


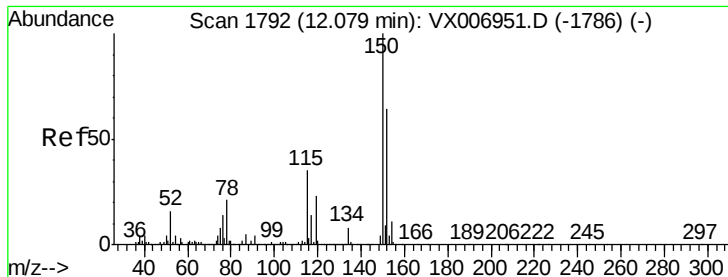
#71
Bromoform
Concen: 4.744 ug/l
RT: 10.75 min Scan# 1574
Delta R.T. -0.11 min
Lab File: VX007244.D
Acq: 25 Jan 2019 22:01

Tgt Ion:173 Resp: 95
Ion Ratio Lower Upper
173 100
175 0.0 24.7 74.1#
254 0.0 0.2 0.2#



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



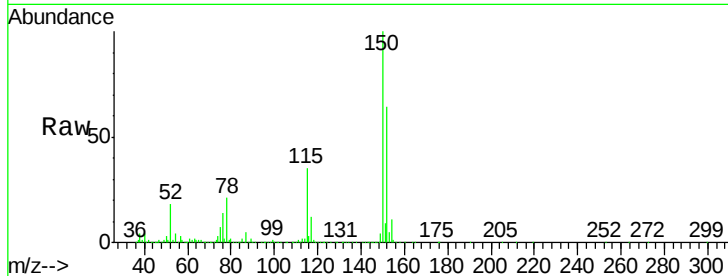


#72

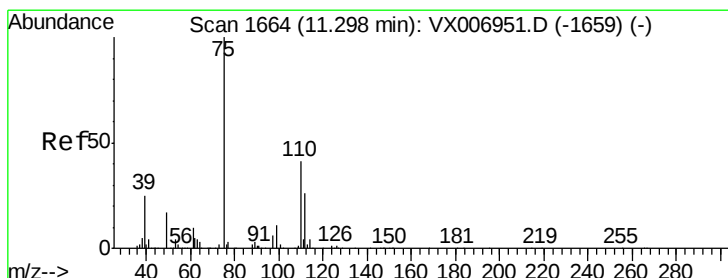
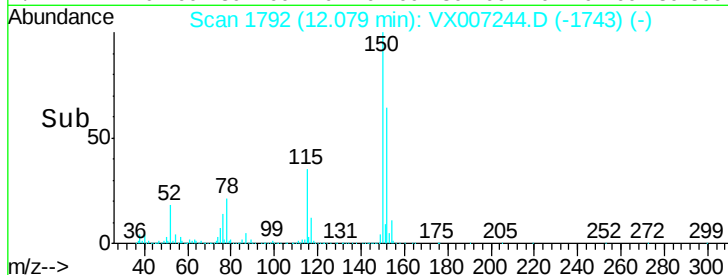
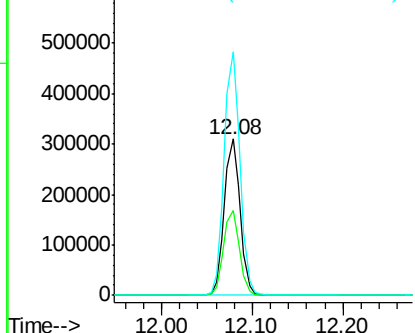
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.08 min Scan# 1792
Delta R.T. -0.00 min
Lab File: VX007244.D
Acq: 25 Jan 2019 22:01

Instrument :
MSVOA_X
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
152	100		
115	54.8	39.1	117.2
150	156.2	0.0	344.8



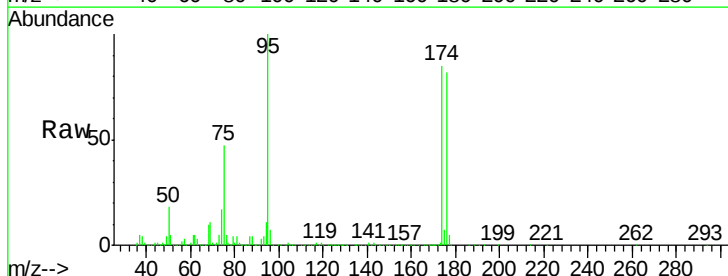
Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V



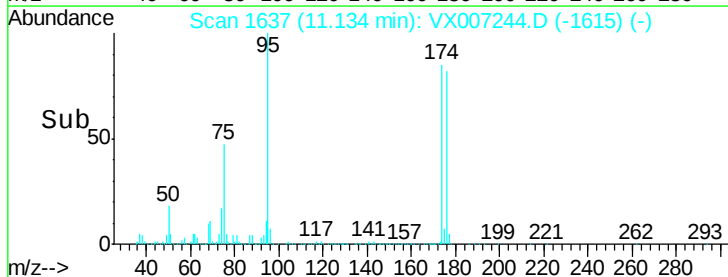
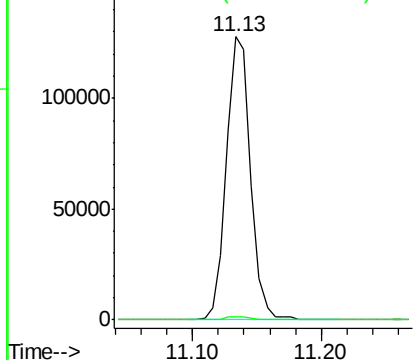
#76

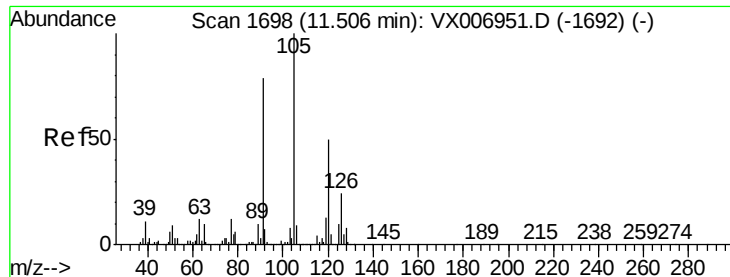
1,2,3-Trichloropropane
Concen: 22.151 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. -0.16 min
Lab File: VX007244.D
Acq: 25 Jan 2019 22:01

Tgt Ion	Ratio	Lower	Upper
75	100		
77	1.4	18.5	55.5#



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#80

1,3,5-Trimethylbenzene

Concen: 0.500 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VX007244.D

Acq: 25 Jan 2019 22:01

Instrument :

MSVOA_X

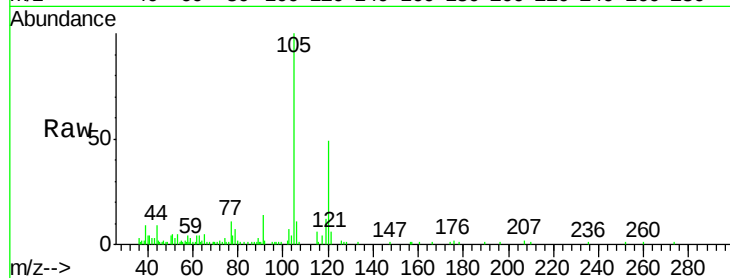
ClientSampleId :

Tot Ion:105 Resp: 11067

Ion Ratio Lower Upper

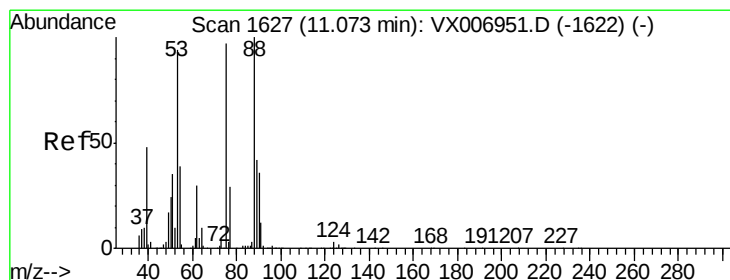
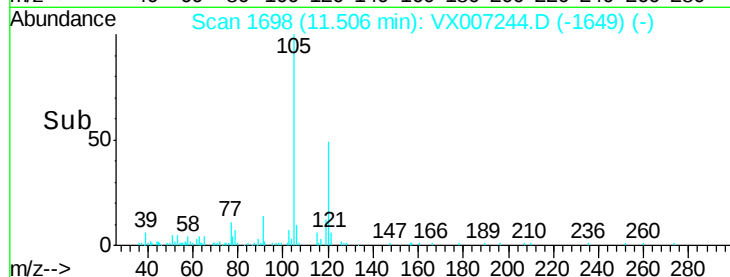
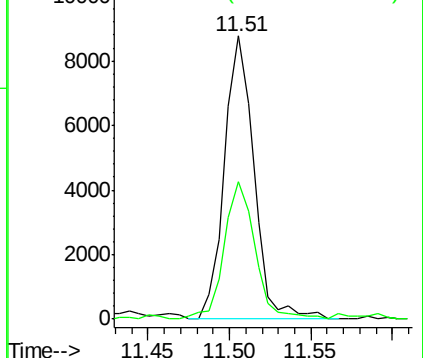
105 100

120 50.8 25.1 75.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#81

trans-1,4-Dichloro-2-butene

Concen: 65.573 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007244.D

Acq: 25 Jan 2019 22:01

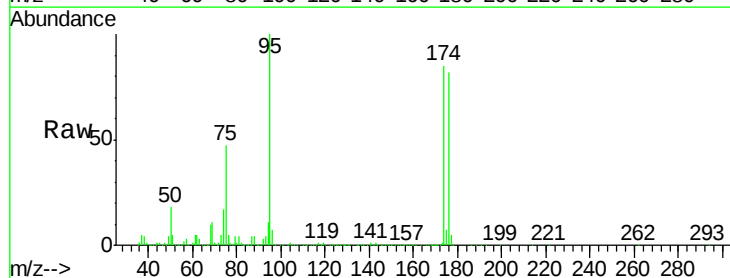
Tgt Ion: 75 Resp: 168689

Ion Ratio Lower Upper

75 100

53 0.1 79.7 119.5#

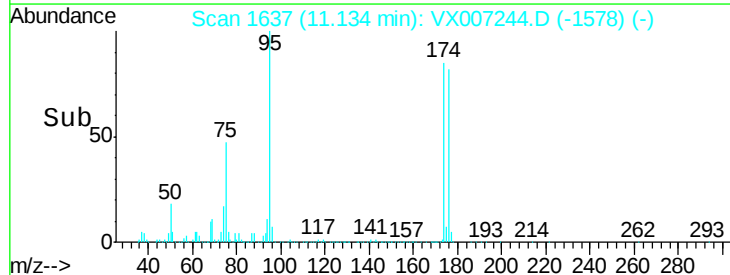
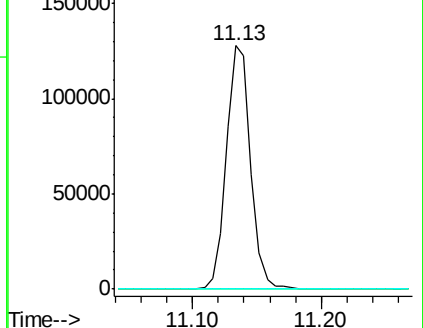
89 0.2 38.0 57.0#

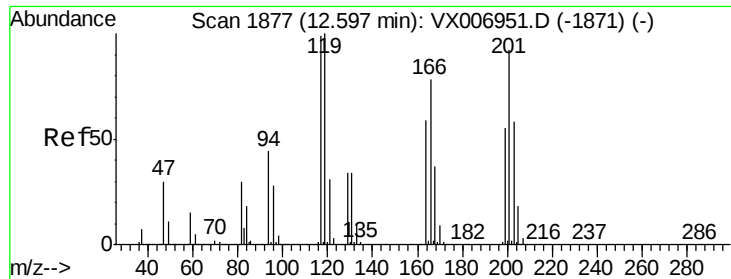


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0





#90

Hexachloroethane

Concen: 2.918 ug/l

RT: 12.71 min Scan# 1896

Delta R.T. 0.12 min

Lab File: VX007244.D

Acq: 25 Jan 2019 22:01

Instrument :

MSVOA_X

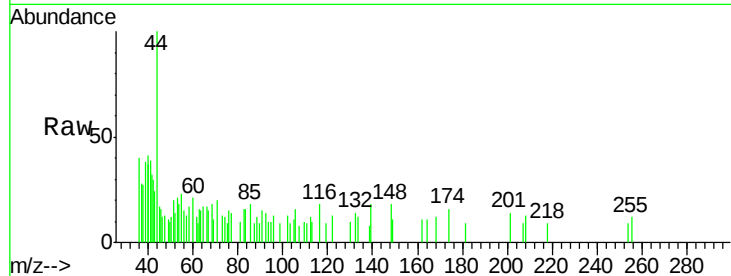
ClientSampleId :

Tot Ion:117 Resp: 39

Ion Ratio Lower Upper

117 100

201 79.5 42.9 128.7



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V

12.71

100

80

60

40

20

0

12.70 12.72

Time-->

