

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX022119\
 Data File : VX007630.D
 Acq On : 21 Feb 2019 14:55
 Operator : JC/SP
 Sample : PB117250ZHE#04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB117250ZHE#04

Quant Time: Feb 22 04:32:33 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 02 01:32:36 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	445868	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	731377	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	701500	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	324664	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	257719	54.46	ug/l	0.00
Spiked Amount			Recovery	=	108.92%	
35) Dibromofluoromethane	5.51	113	244102	51.29	ug/l	0.00
Spiked Amount			Recovery	=	102.58%	
50) Toluene-d8	8.71	98	887670	50.28	ug/l	0.00
Spiked Amount			Recovery	=	100.56%	
62) 4-Bromofluorobenzene	11.13	95	311682	48.35	ug/l	0.00
Spiked Amount			Recovery	=	96.70%	

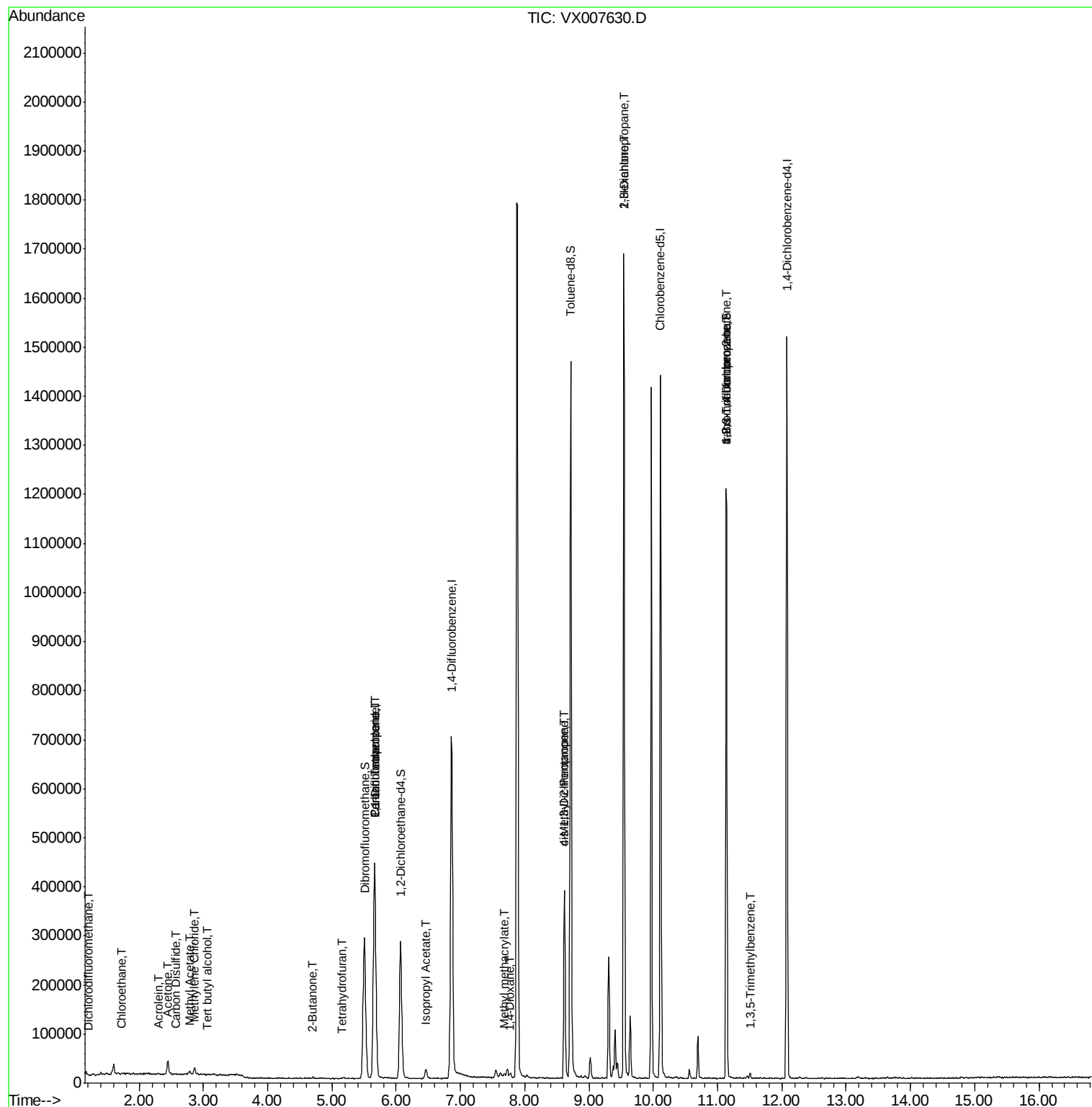
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.21	85	327	0.237	ug/l	73
5) Bromomethane	1.65	94	679	Below Cal	#	40
6) Chloroethane	1.72	64	719	0.226	ug/l #	43
11) Tert butyl alcohol	3.07	59	522	0.533	ug/l #	32
13) Acrolein	2.31	56	508	1.106	ug/l	84
16) Acetone	2.45	43	31030	14.314	ug/l	99
17) Carbon Disulfide	2.57	76	1511	2.251	ug/l #	79
18) Methyl Acetate	2.78	43	9813	2.310	ug/l	90
20) Methylene Chloride	2.86	84	7184	1.239	ug/l	91
25) 2-Butanone	4.70	43	4520	1.465	ug/l	91
29) Tetrahydrofuran	5.16	42	973	0.501	ug/l #	59
36) 1,1-Dichloropropene	5.66	75	30682	4.676	ug/l #	49
38) Carbon Tetrachloride	5.66	117	41414	6.505	ug/l #	18
43) Isopropyl Acetate	6.46	43	24021	2.346	ug/l	93
48) Methyl methacrylate	7.68	41	9643	1.883	ug/l #	16
49) 1,4-Dioxane	7.76	88	82	7.578	ug/l #	25
51) 4-Methyl-2-Pentanone	8.62	43	120605	17.893	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	61862	8.778	ug/l #	62
57) 1,3-Dichloropropane	9.54	76	14701	1.778	ug/l #	46
59) 2-Hexanone	9.54	43	190249	36.271	ug/l #	51
76) 1,2,3-Trichloropropane	11.13	75	147983	23.433	ug/l #	32
80) 1,3,5-Trimethylbenzene	11.51	105	4644	0.257	ug/l	92
81) trans-1,4-Dichloro-2-buten	11.13	75	147983	70.533	ug/l #	9

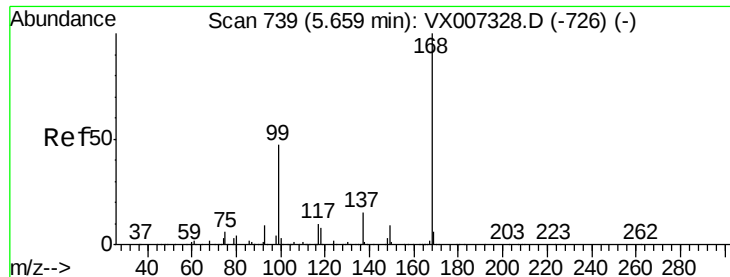
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 21 Feb 2019 14:55
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Quant Time: Feb 22 04:32:33 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X020119W.M
Quant Title : SW846 8260
QLast Update : Sat Feb 02 01:32:36 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX007630.D

Acq: 21 Feb 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

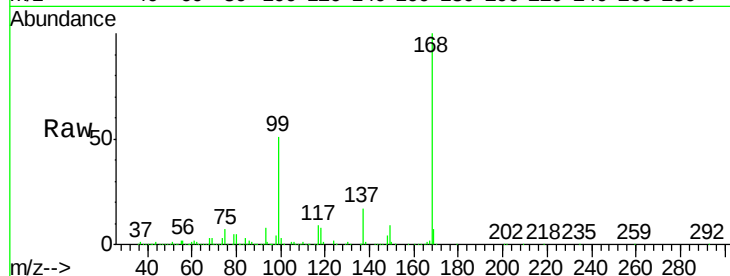
PB117250ZHE#04

Tot Ion:168 Resp: 445868

Ion Ratio Lower Upper

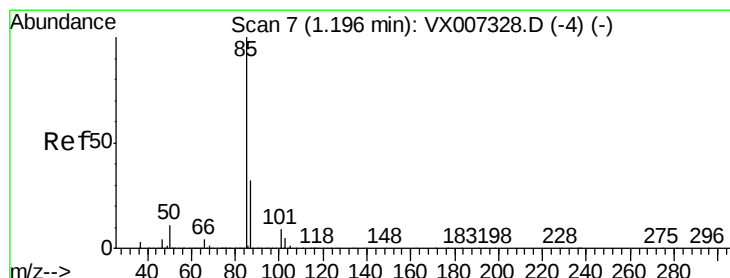
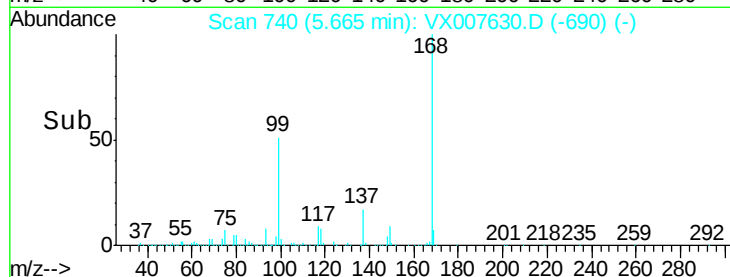
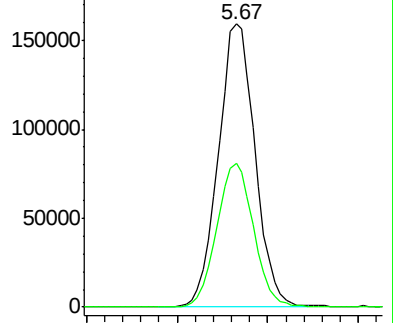
168 100

99 50.8 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 0.237 ug/l

RT: 1.21 min Scan# 9

Delta R.T. 0.01 min

Lab File: VX007630.D

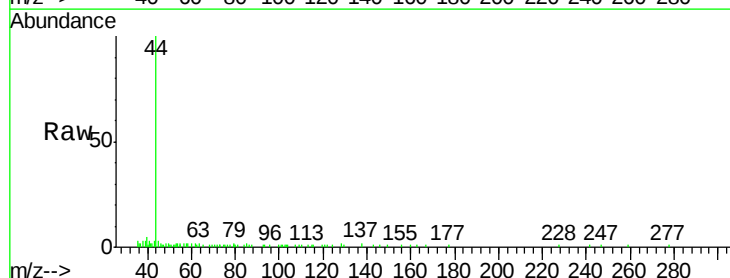
Acq: 21 Feb 2019 14:55

Tgt Ion: 85 Resp: 327

Ion Ratio Lower Upper

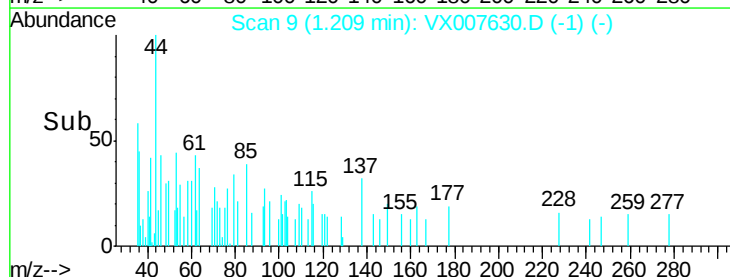
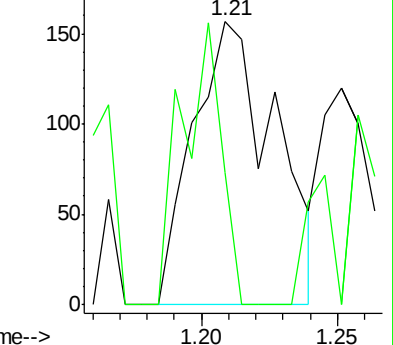
85 100

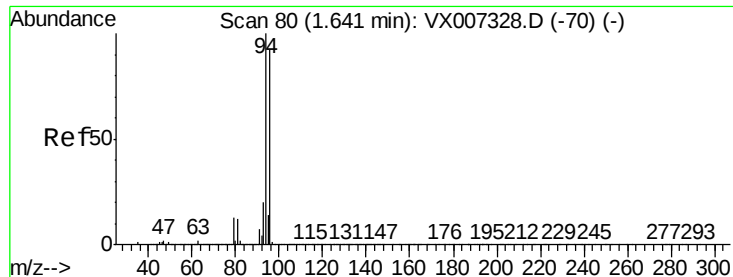
87 46.5 15.8 47.4



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#5

Bromomethane

Concen: Below Cal

RT: 1.65 min Scan# 81

Delta R.T. 0.01 min

Lab File: VX007630.D

Acq: 21 Feb 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

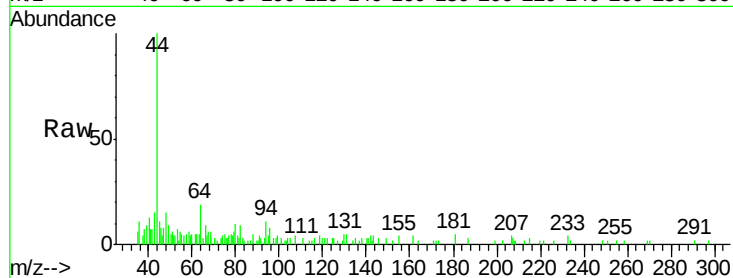
PB117250ZHE#04

Tot Ion: 94 Resp: 679

Ion Ratio Lower Upper

94 100

96 34.8 73.9 110.9#



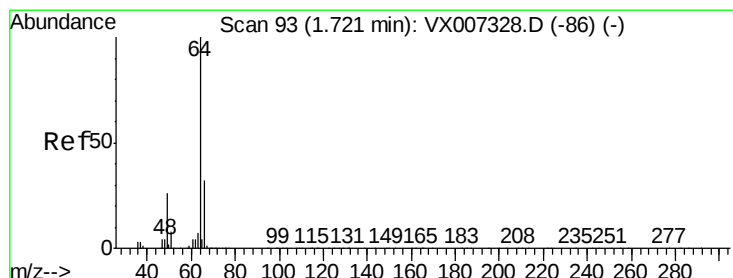
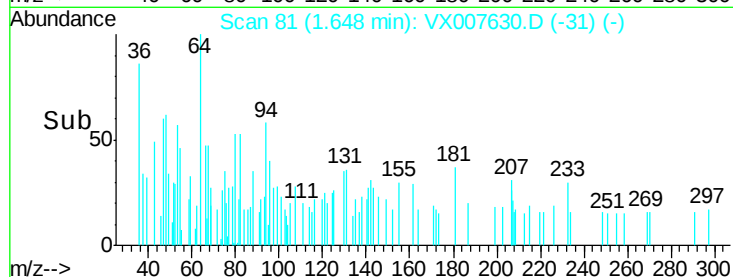
Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.65

1.70

Time-->



#6

Chloroethane

Concen: 0.226 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.00 min

Lab File: VX007630.D

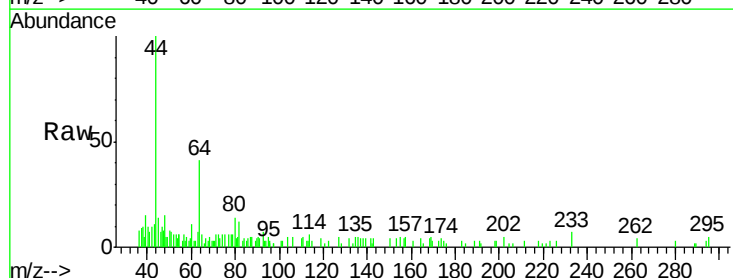
Acq: 21 Feb 2019 14:55

Tgt Ion: 64 Resp: 719

Ion Ratio Lower Upper

64 100

66 0.0 25.5 38.3#



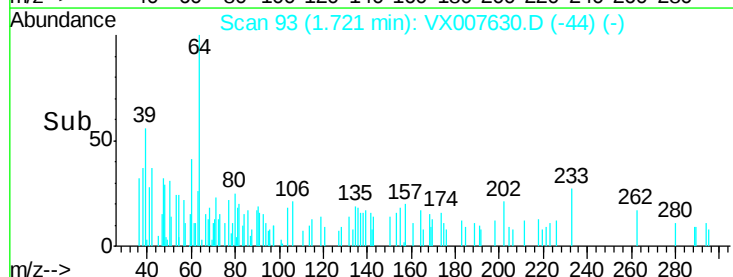
Abundance Ion 63.90 (63.60 to 64.60): VX0

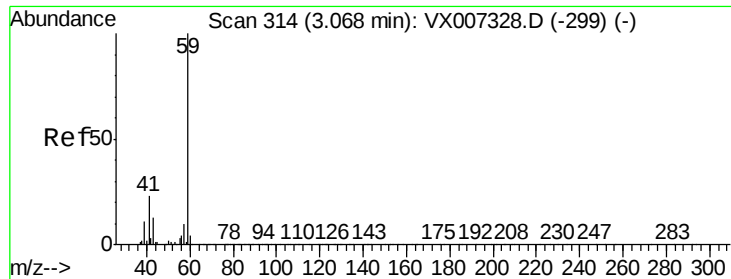
Ion 65.90 (65.60 to 66.60): VX0

1.72

1.74

Time-->



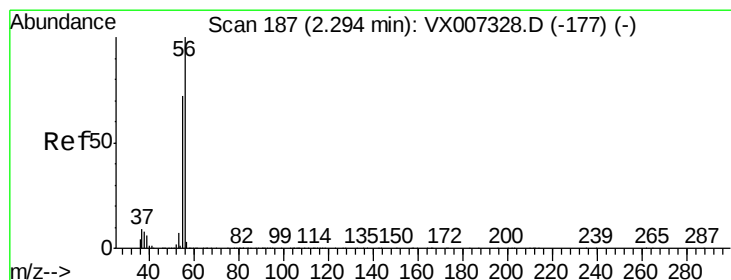
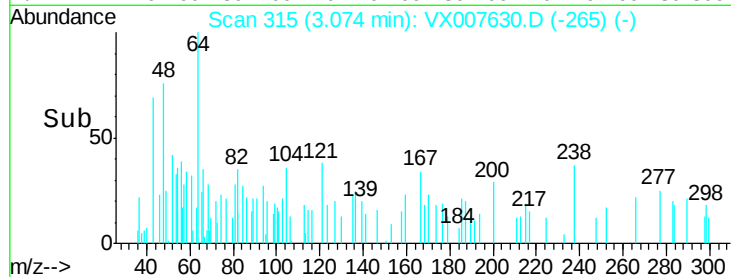
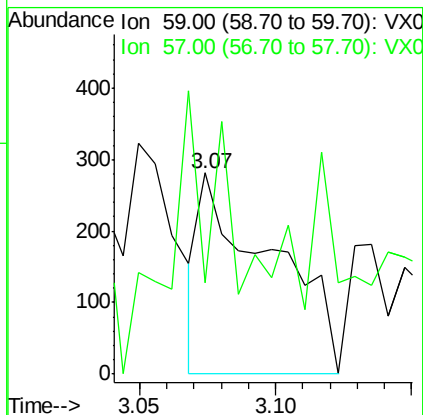
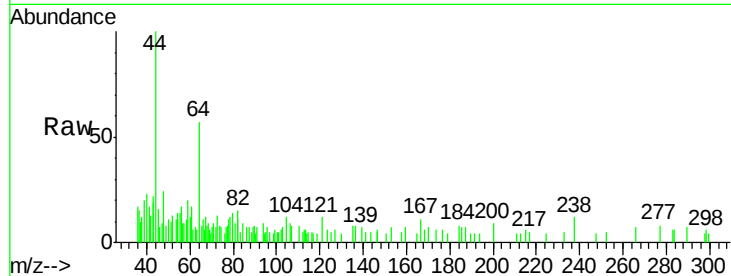


#11

Tert butyl alcohol
Concen: 0.533 ug/l
RT: 3.07 min Scan# 315
Delta R.T. 0.01 min
Lab File: VX007630.D
Acq: 21 Feb 2019 14:55

Instrument :
MSVOA_X
ClientSampleId :
PB117250ZHE#04

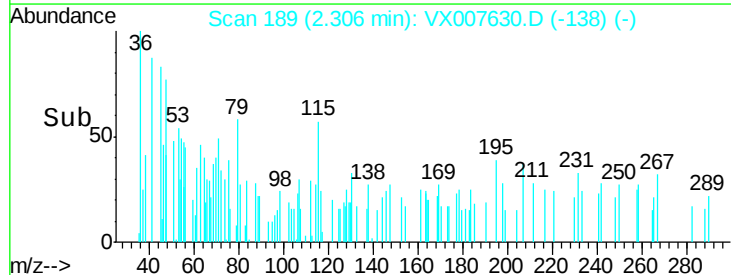
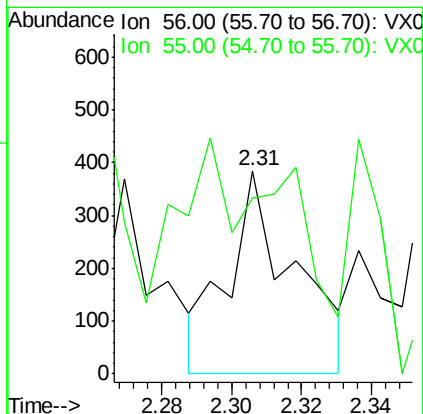
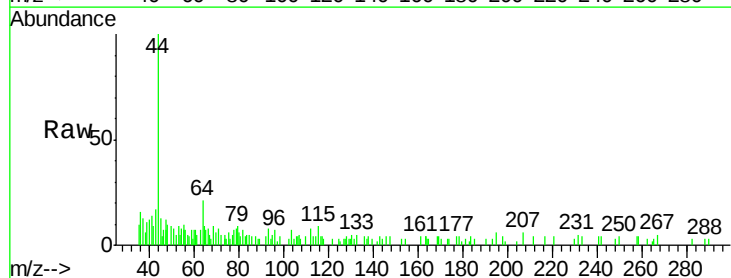
Tot Ion: 59 Resp: 522
Ion Ratio Lower Upper
59 100
57 35.4 8.1 12.1#

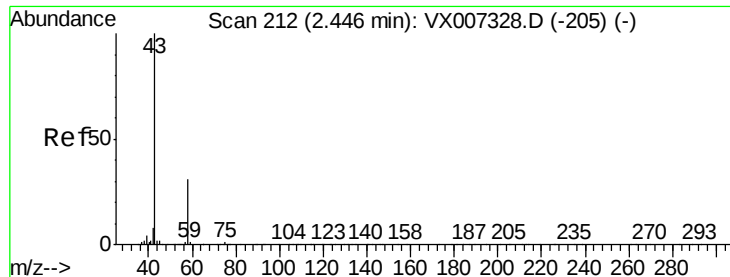


#13

Acrolein
Concen: 1.106 ug/l
RT: 2.31 min Scan# 189
Delta R.T. 0.01 min
Lab File: VX007630.D
Acq: 21 Feb 2019 14:55

Tgt Ion: 56 Resp: 508
Ion Ratio Lower Upper
56 100
55 57.5 56.9 85.3





#16

Acetone

Concen: 14.314 ug/l

RT: 2.45 min Scan# 212

Delta R.T. 0.00 min

Lab File: VX007630.D

Acq: 21 Feb 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

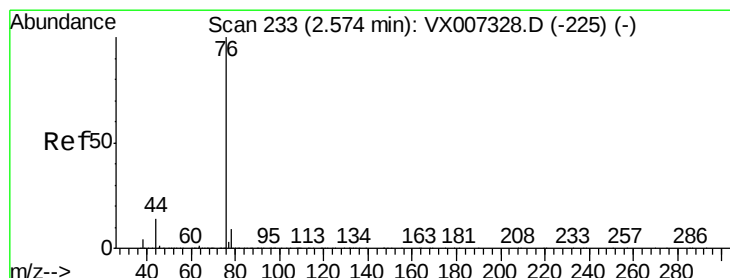
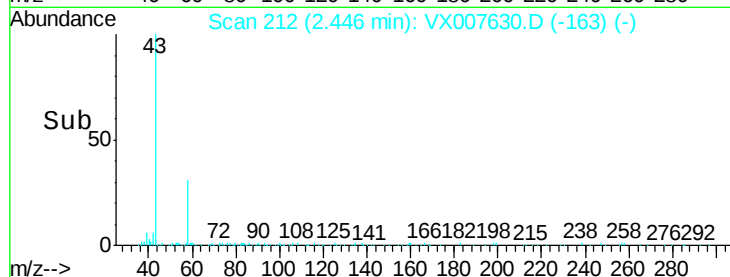
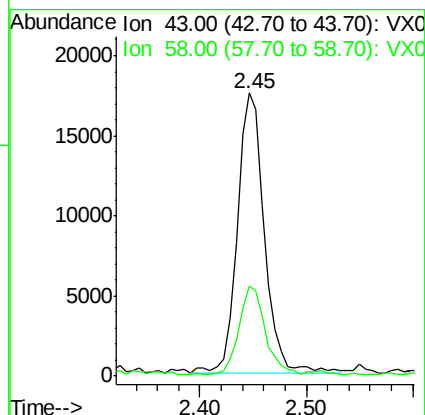
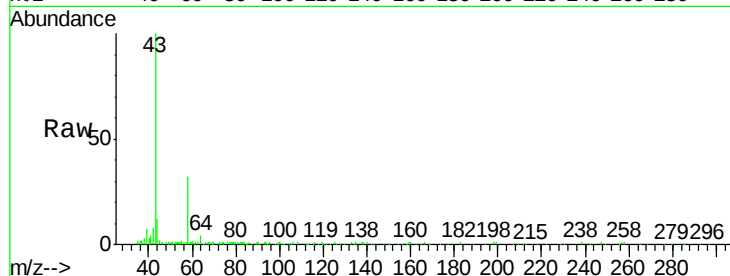
PB117250ZHE#04

Tot Ion: 43 Resp: 31030

Ion Ratio Lower Upper

43 100

58 31.4 24.9 37.3



#17

Carbon Disulfide

Concen: 2.251 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.00 min

Lab File: VX007630.D

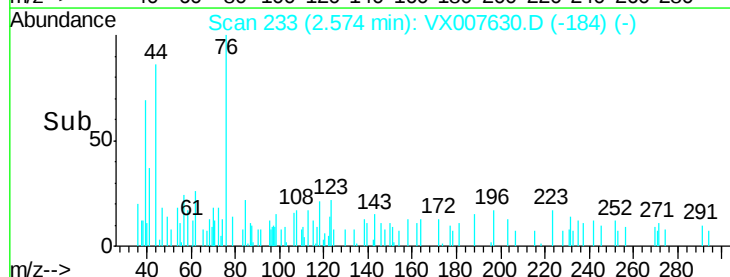
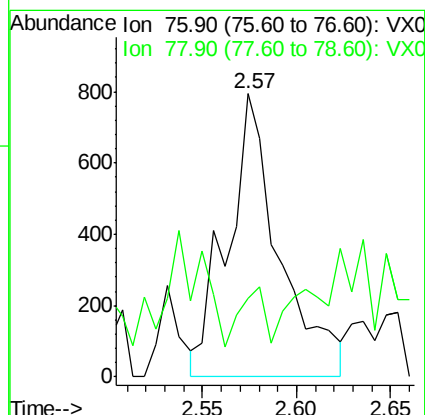
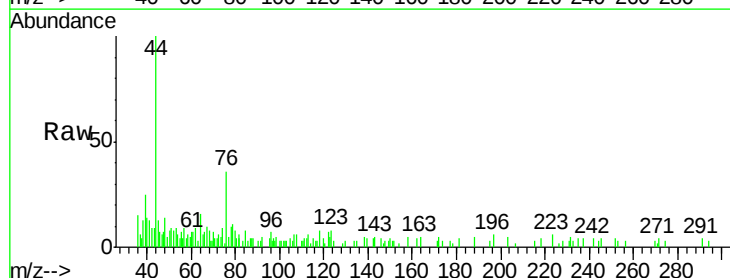
Acq: 21 Feb 2019 14:55

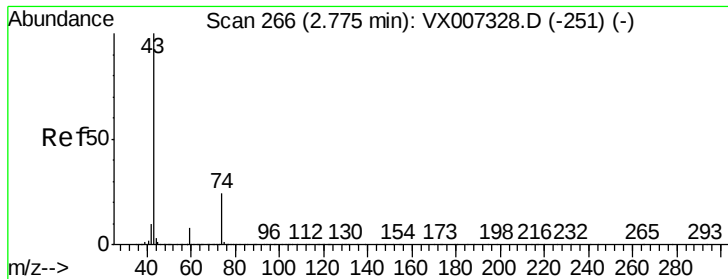
Tgt Ion: 76 Resp: 1511

Ion Ratio Lower Upper

76 100

78 1.3 7.1 10.7#

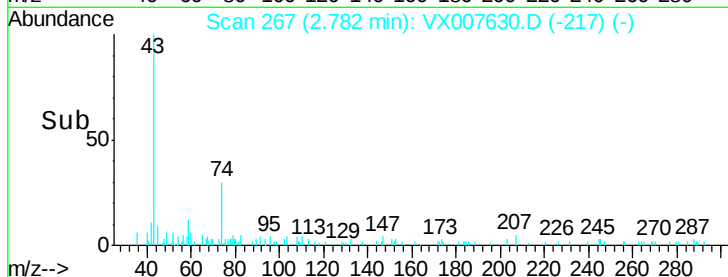
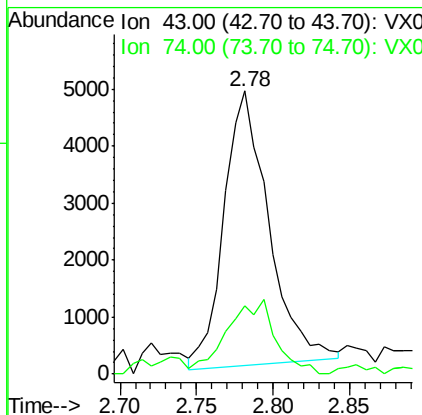
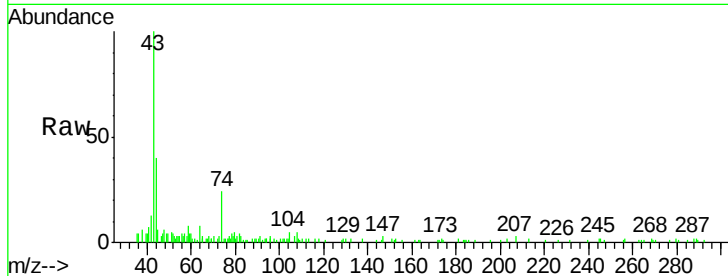




#18
Methyl Acetate
Concen: 2.310 ug/l
RT: 2.78 min Scan# 267
Delta R.T. 0.01 min
Lab File: VX007630.D
Acq: 21 Feb 2019 14:55

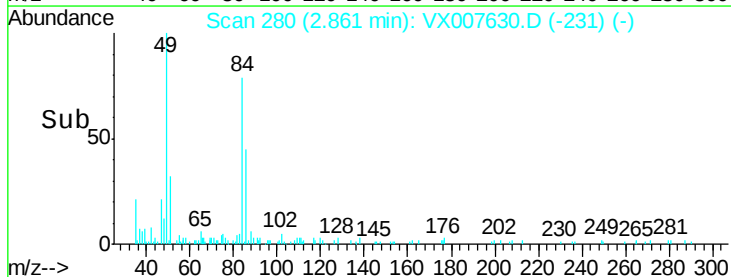
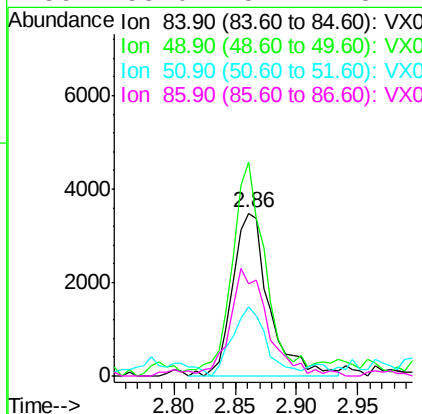
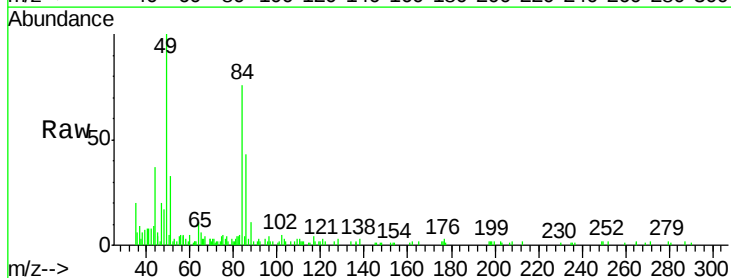
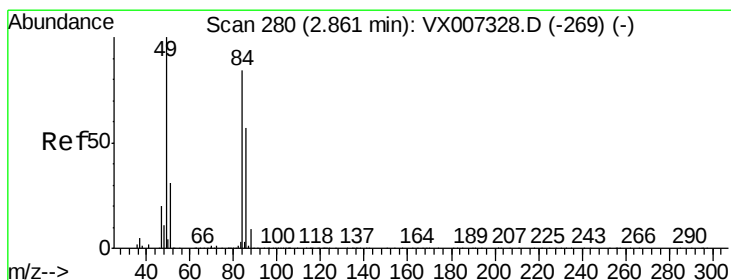
Instrument :
MSVOA_X
ClientSampleId :
PB117250ZHE#04

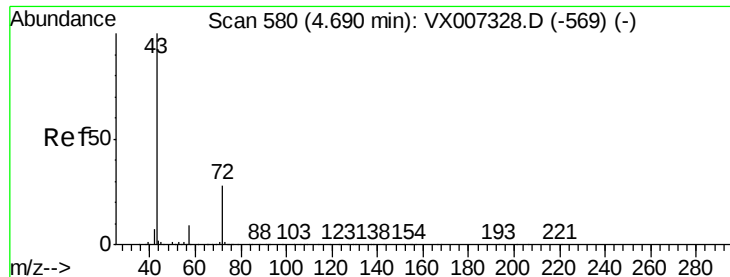
Tot Ion: 43 Resp: 9813
Ion Ratio Lower Upper
43 100
74 29.1 19.4 29.2



#20
Methylene Chloride
Concen: 1.239 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX007630.D
Acq: 21 Feb 2019 14:55

Tgt Ion: 84 Resp: 7184
Ion Ratio Lower Upper
84 100
49 127.0 94.8 142.2
51 37.0 29.8 44.8
86 55.0 54.1 81.1





#25

2-Butanone

Concen: 1.465 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX007630.D

Acq: 21 Feb 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

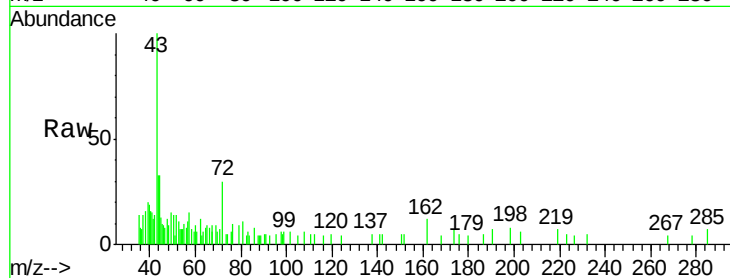
PB117250ZHE#04

Tot Ion: 43 Resp: 4520

Ion Ratio Lower Upper

43 100

72 32.4 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

1500

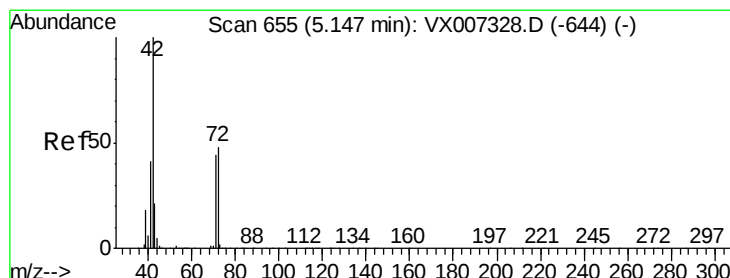
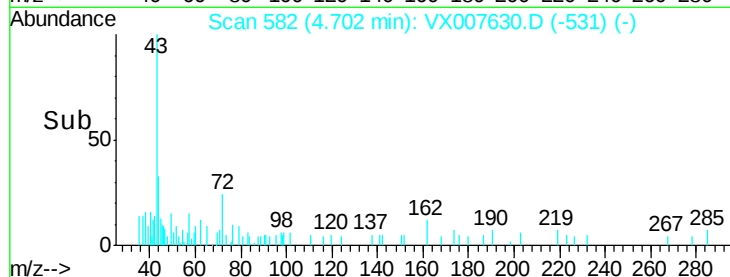
1000

500

0

4.60 4.65 4.70 4.75 4.80

Time-->



#29

Tetrahydrofuran

Concen: 0.501 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX007630.D

Acq: 21 Feb 2019 14:55

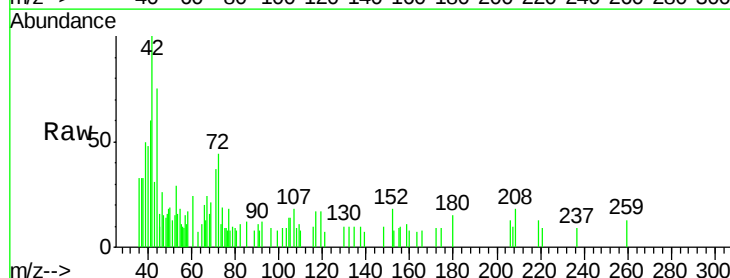
Tgt Ion: 42 Resp: 973

Ion Ratio Lower Upper

42 100

72 36.3 37.6 56.4#

71 0.0 34.6 51.8#



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

1000

800

600

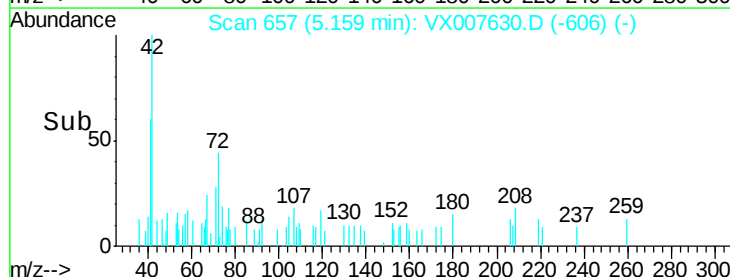
400

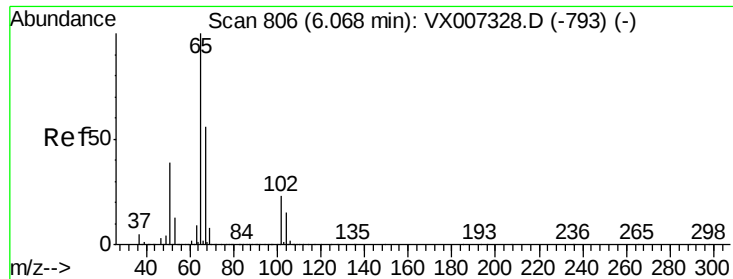
200

0

5.10 5.12 5.14 5.16 5.18

Time-->





#33

1,2-Dichloroethane-d4

Concen: 54.457 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.00 min

Lab File: VX007630.D

Acq: 21 Feb 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

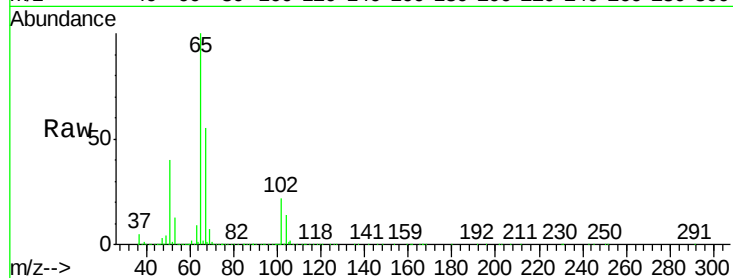
PB117250ZHE#04

Tot Ion: 65 Resp: 257719

Ion Ratio Lower Upper

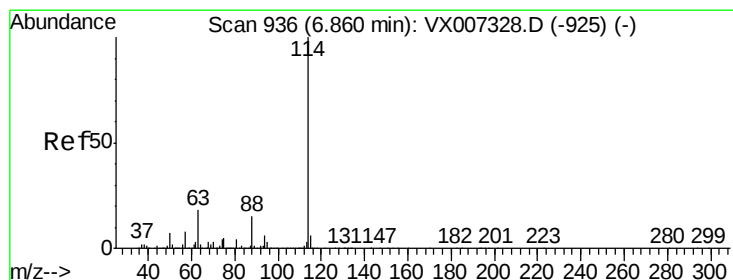
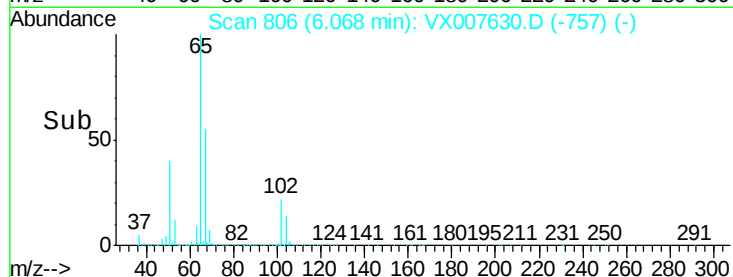
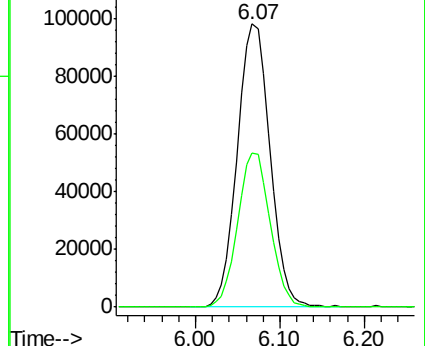
65 100

67 54.2 0.0 108.8



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: VX007630.D

Acq: 21 Feb 2019 14:55

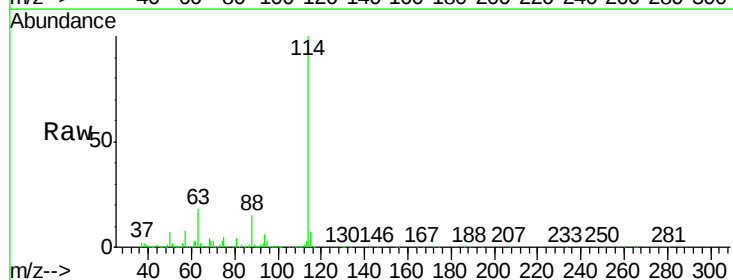
Tgt Ion: 114 Resp: 731377

Ion Ratio Lower Upper

114 100

63 18.4 0.0 35.6

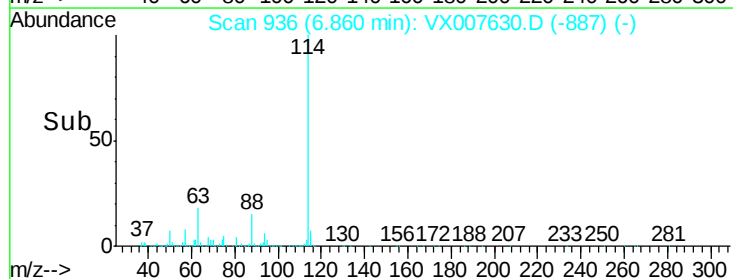
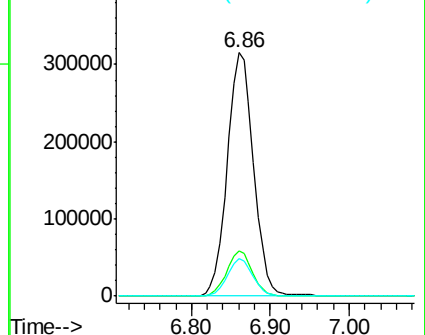
88 15.3 0.0 29.6

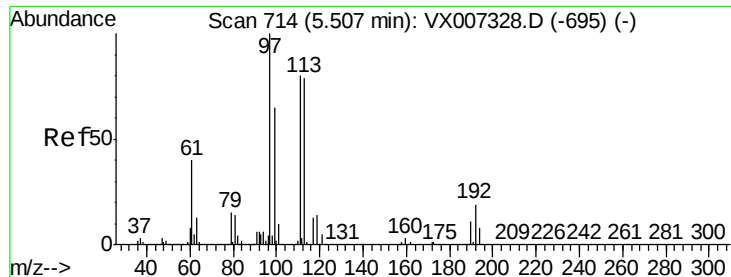


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 51.295 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.00 min

Lab File: VX007630.D

Acq: 21 Feb 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#04

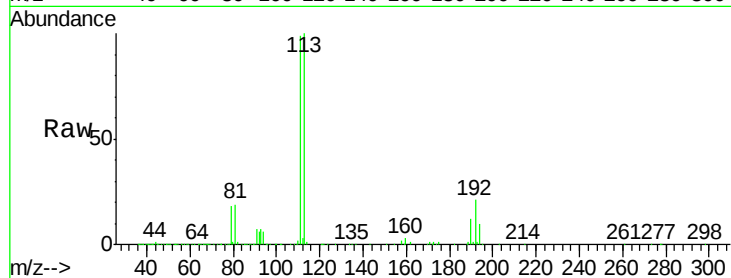
Tot Ion:113 Resp: 244102

Ion Ratio Lower Upper

113 100

111 101.2 81.8 122.8

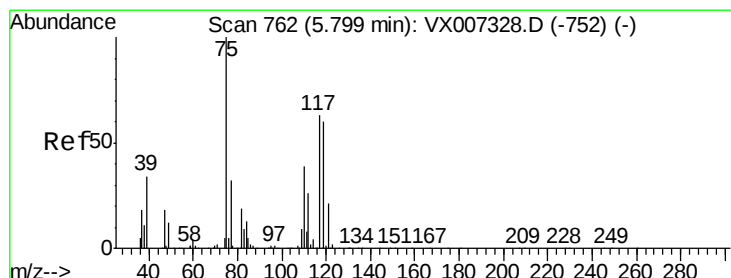
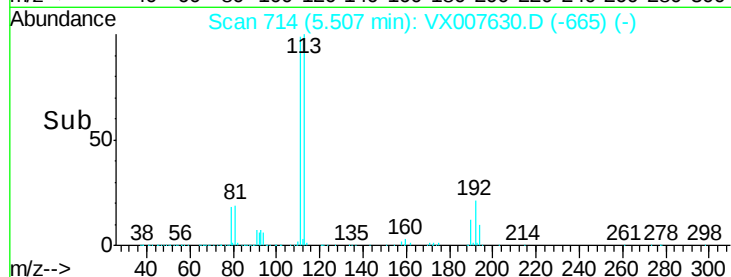
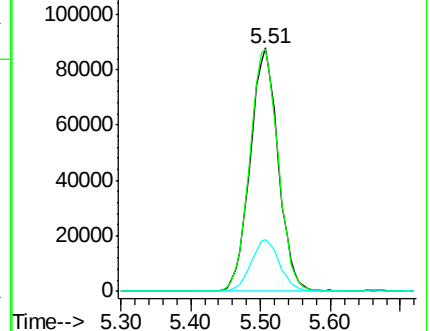
192 21.8 18.5 27.7



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: 4.676 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007630.D

Acq: 21 Feb 2019 14:55

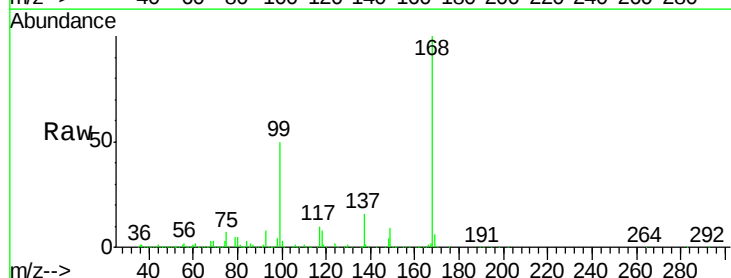
Tgt Ion: 75 Resp: 30682

Ion Ratio Lower Upper

75 100

110 9.9 20.0 59.9#

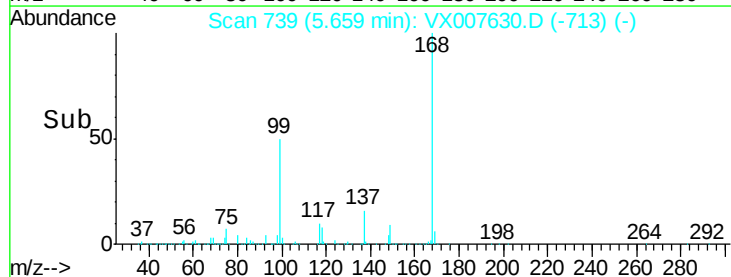
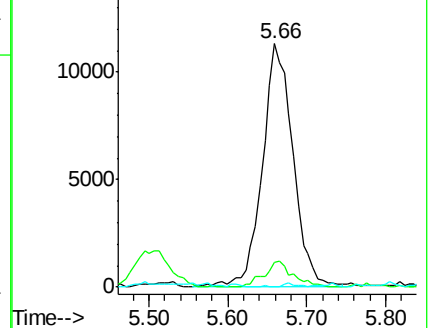
77 0.7 24.7 37.1#

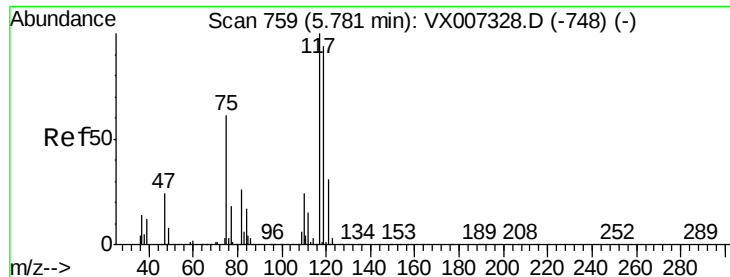


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 6.505 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.12 min

Lab File: VX007630.D

Acq: 21 Feb 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#04

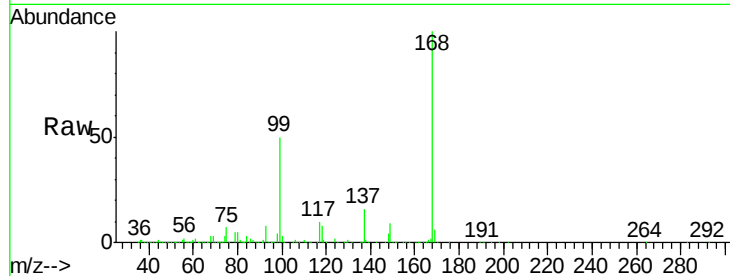
Tot Ion:117 Resp: 41414

Ion Ratio Lower Upper

117 100

119 6.5 75.3 112.9#

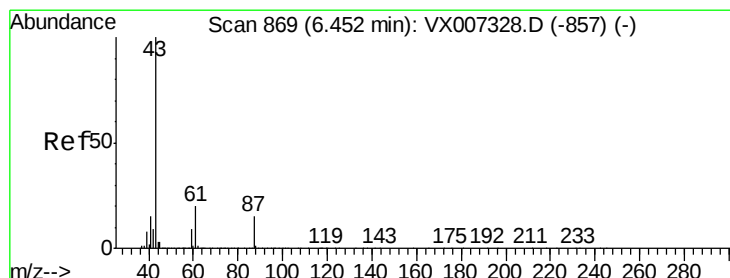
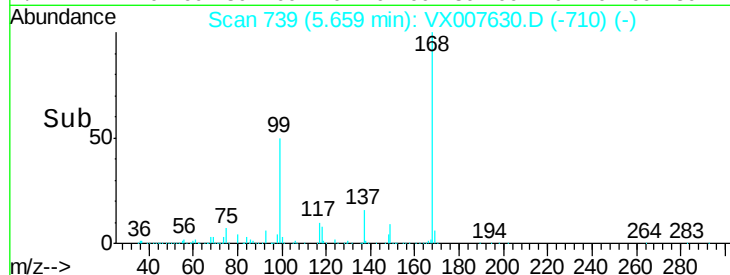
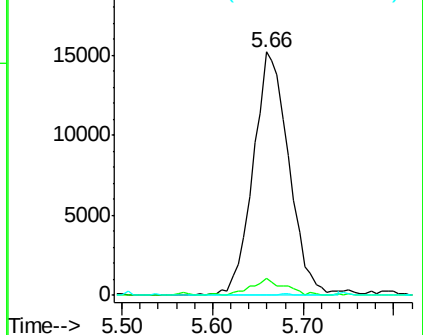
121 0.0 25.0 37.4#



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



#43

Isopropyl Acetate

Concen: 2.346 ug/l

RT: 6.46 min Scan# 871

Delta R.T. 0.01 min

Lab File: VX007630.D

Acq: 21 Feb 2019 14:55

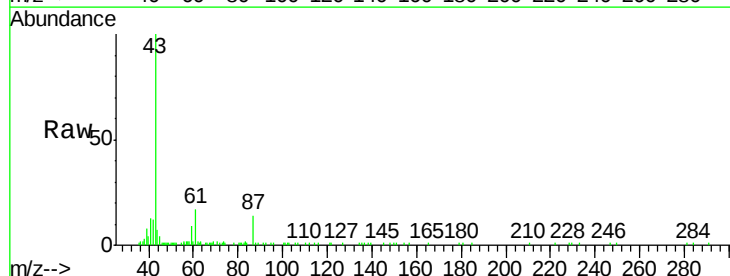
Tgt Ion: 43 Resp: 24021

Ion Ratio Lower Upper

43 100

61 24.0 16.1 24.1

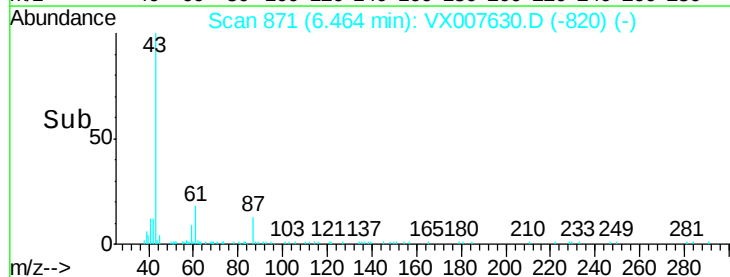
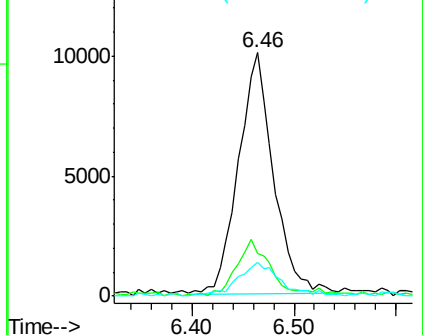
87 16.9 11.5 17.3

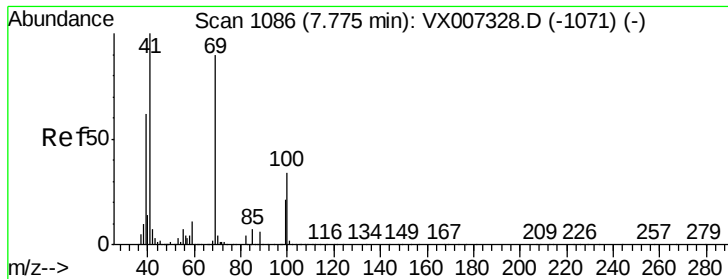


Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 61.00 (60.70 to 61.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

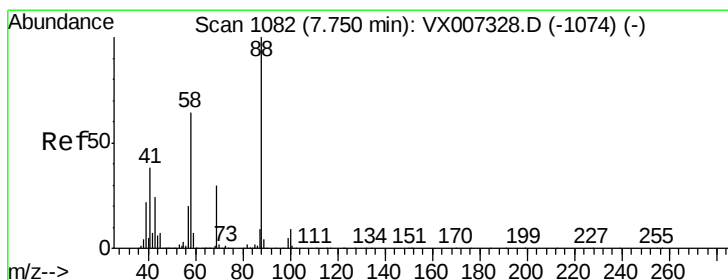
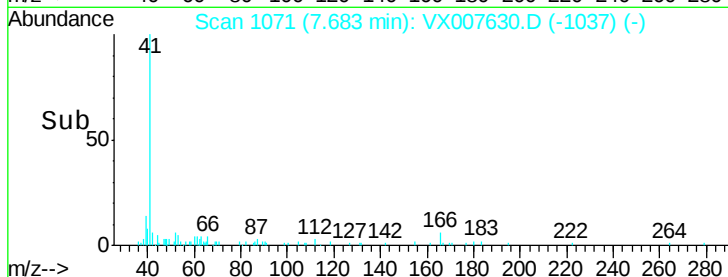
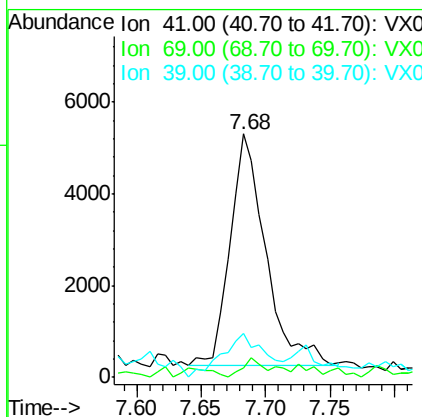
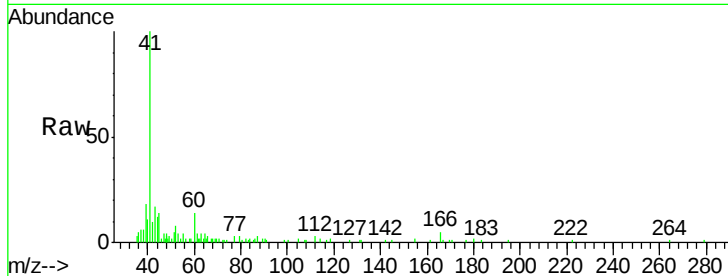




#48
Methvl methacrylate
Concen: 1.883 ug/l
RT: 7.68 min Scan# 1071
Delta R.T. -0.09 min
Lab File: VX007630.D
Acq: 21 Feb 2019 14:55

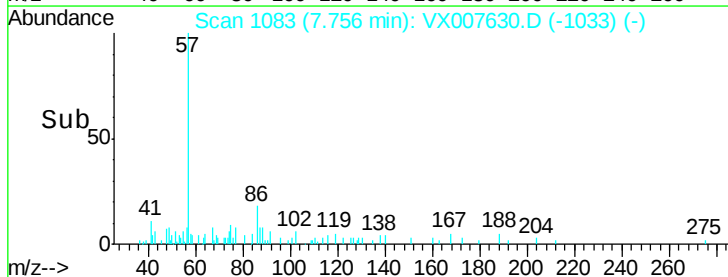
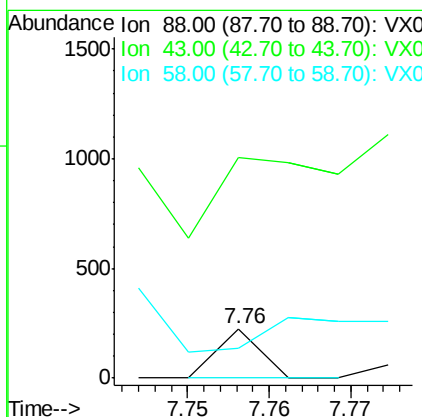
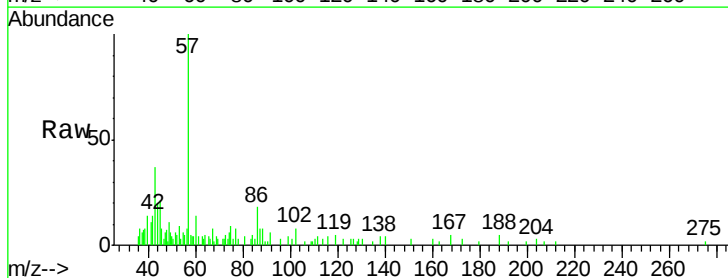
Instrument :
MSVOA_X
ClientSampleId :
PB117250ZHE#04

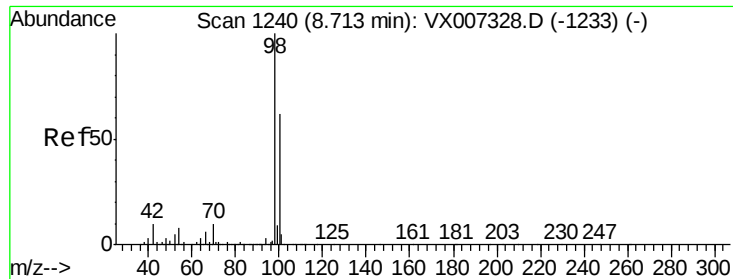
Tot Ion: 41 Resp: 9643
Ion Ratio Lower Upper
41 100
69 6.6 70.2 105.4#
39 0.0 47.4 71.0#



#49
1,4-Dioxane
Concen: 7.578 ug/l
RT: 7.76 min Scan# 1083
Delta R.T. 0.01 min
Lab File: VX007630.D
Acq: 21 Feb 2019 14:55

Tgt Ion: 88 Resp: 82
Ion Ratio Lower Upper
88 100
43 0.0 24.2 36.4#
58 0.0 53.0 79.4#





#50

Toluene-d8

Concen: 50.276 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX007630.D

Acq: 21 Feb 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

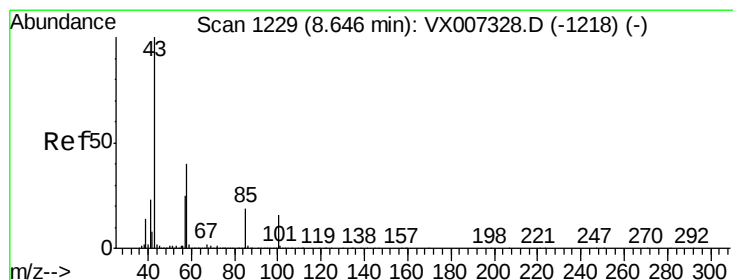
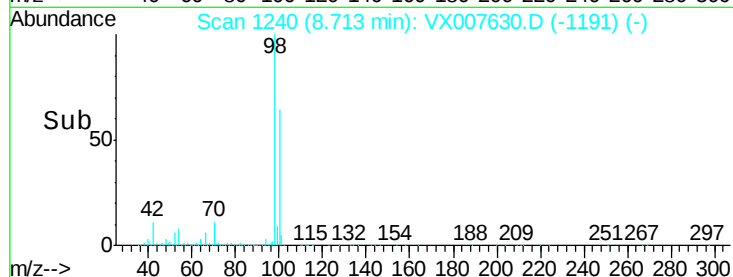
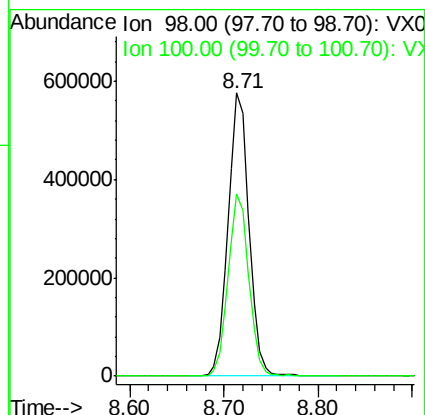
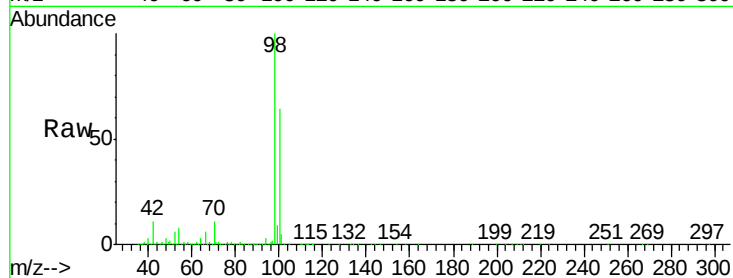
PB117250ZHE#04

Tot Ion: 98 Resp: 887670

Ion Ratio Lower Upper

98 100

100 63.8 51.6 77.4



#51

4-Methyl-2-Pentanone

Concen: 17.893 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. -0.03 min

Lab File: VX007630.D

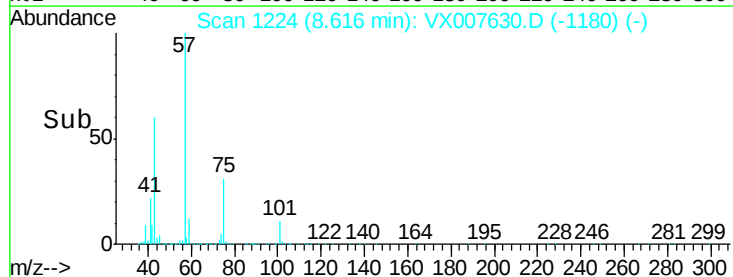
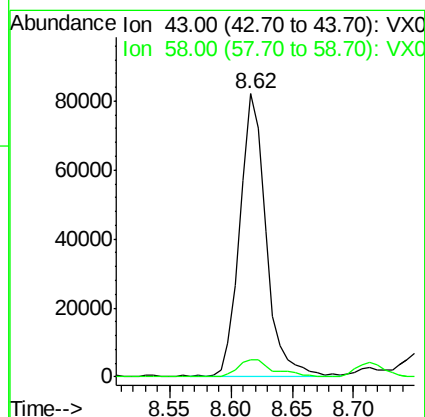
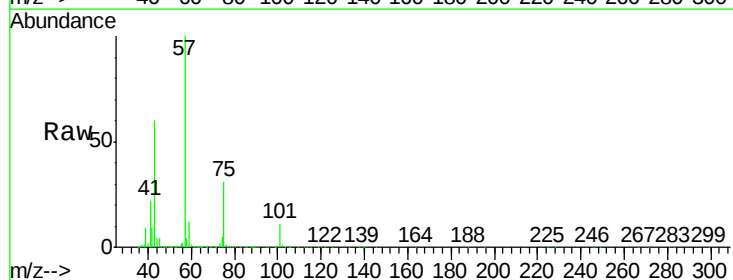
Acq: 21 Feb 2019 14:55

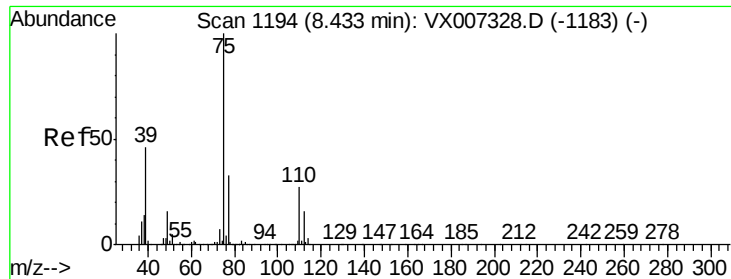
Tgt Ion: 43 Resp: 120605

Ion Ratio Lower Upper

43 100

58 8.4 31.2 46.8#





#54

cis-1,3-Dichloropropene

Concen: 8.778 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX007630.D

Acq: 21 Feb 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#04

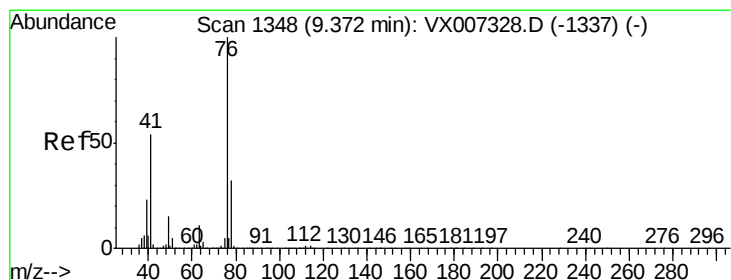
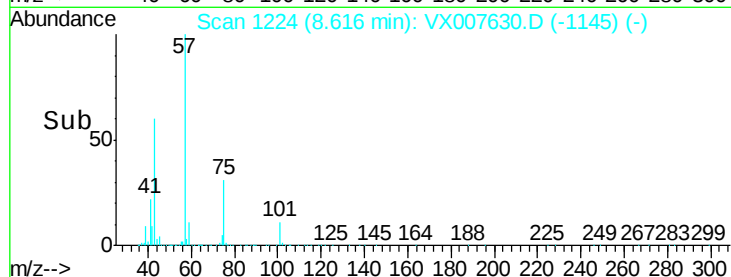
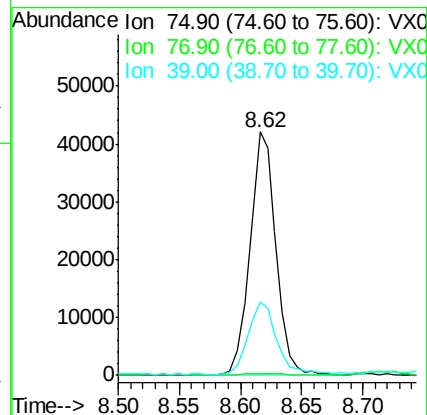
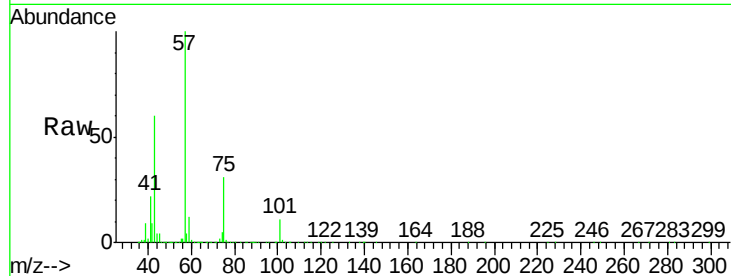
Tot Ion: 75 Resp: 61862

Ion Ratio Lower Upper

75 100

77 0.7 26.2 39.4#

39 29.6 37.1 55.7#



#57

1,3-Dichloropropane

Concen: 1.778 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.17 min

Lab File: VX007630.D

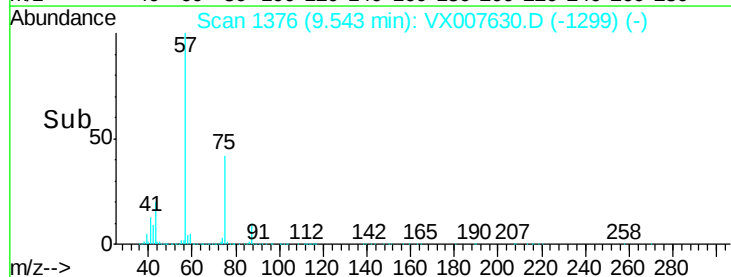
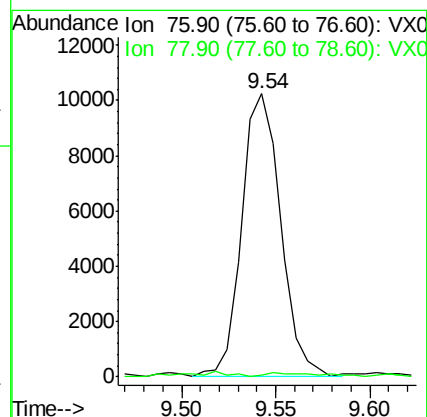
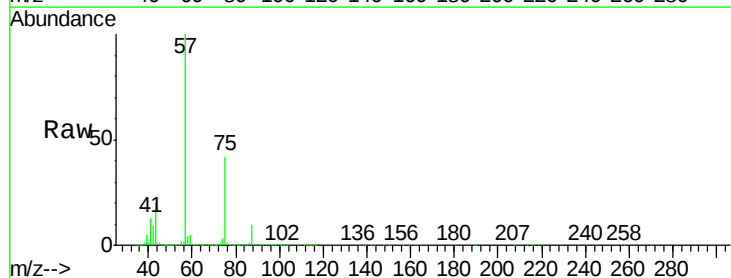
Acq: 21 Feb 2019 14:55

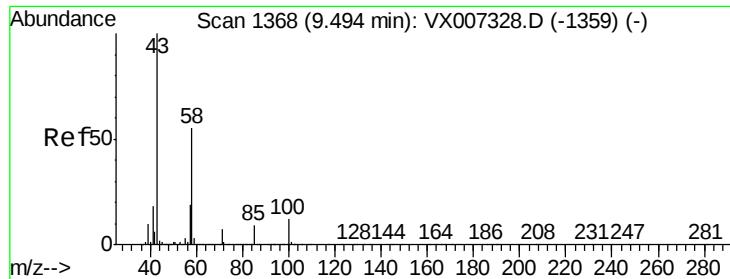
Tgt Ion: 76 Resp: 14701

Ion Ratio Lower Upper

76 100

78 2.2 25.8 38.8#

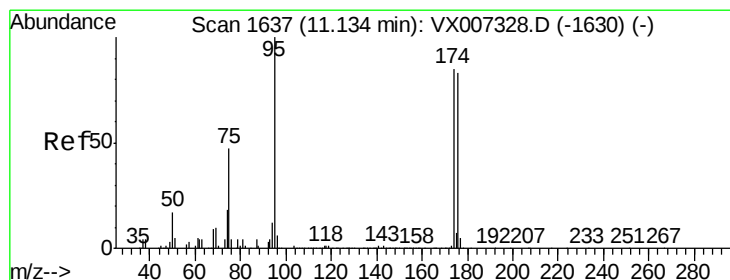
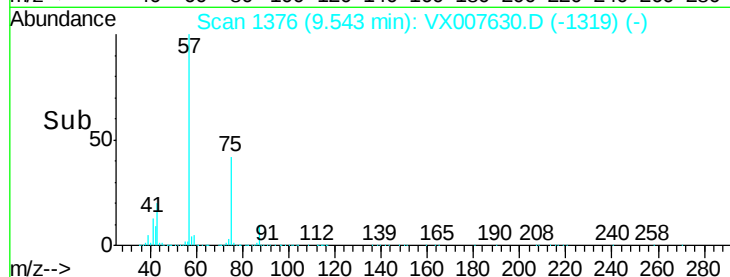
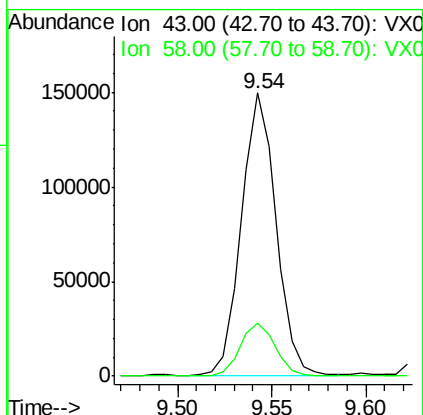
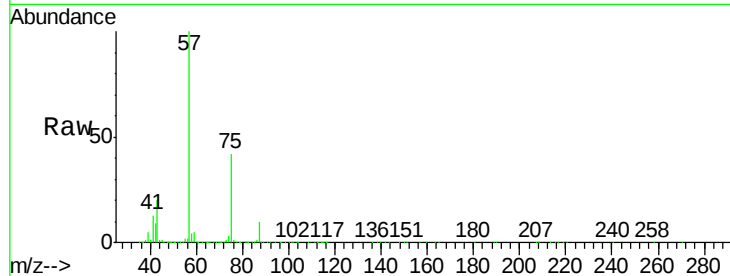




#59
2-Hexanone
Concen: 36.271 ug/l
RT: 9.54 min Scan# 1376
Delta R.T. 0.05 min
Lab File: VX007630.D
Acq: 21 Feb 2019 14:55

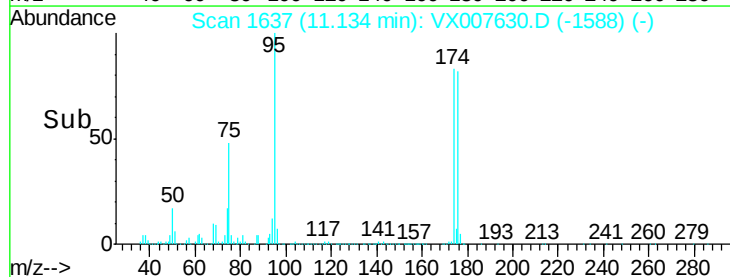
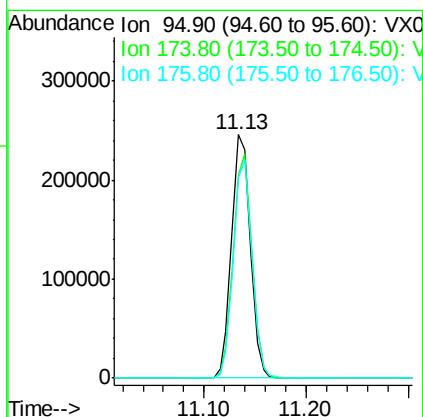
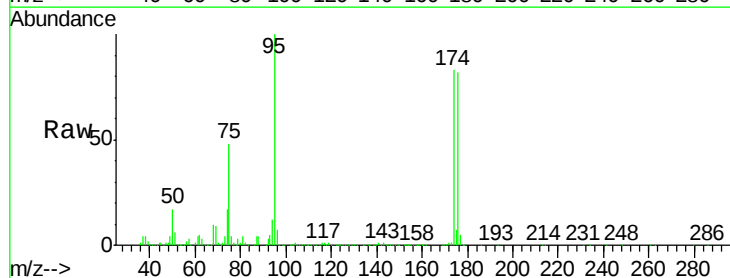
Instrument :
MSVOA_X
ClientSampleId :
PB117250ZHE#04

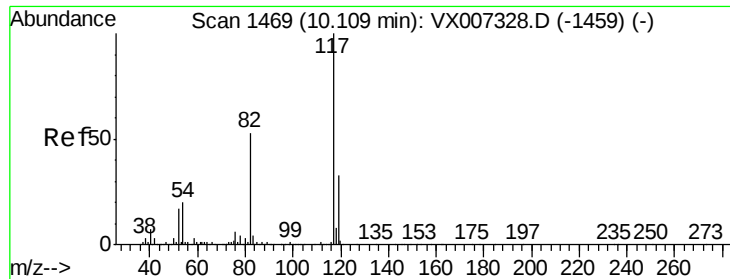
Tot Ion: 43 Resp: 190249
Ion Ratio Lower Upper
43 100
58 18.9 27.1 81.3#



#62
4-Bromofluorobenzene
Concen: 48.351 ug/l
RT: 11.13 min Scan# 1637
Delta R.T. 0.00 min
Lab File: VX007630.D
Acq: 21 Feb 2019 14:55

Tgt Ion: 95 Resp: 311682
Ion Ratio Lower Upper
95 100
174 91.9 0.0 189.2
176 88.6 0.0 186.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX007630.D

Acq: 21 Feb 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#04

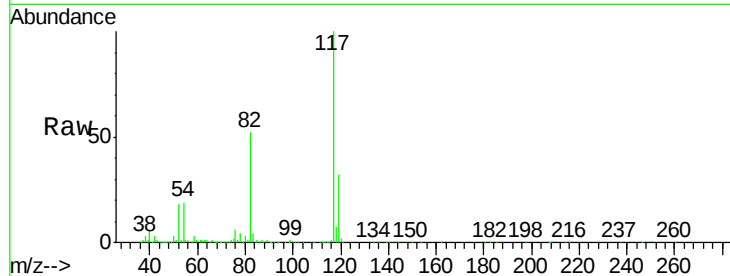
Tot Ion:117 Resp: 701500

Ion Ratio Lower Upper

117 100

82 51.7 42.1 63.1

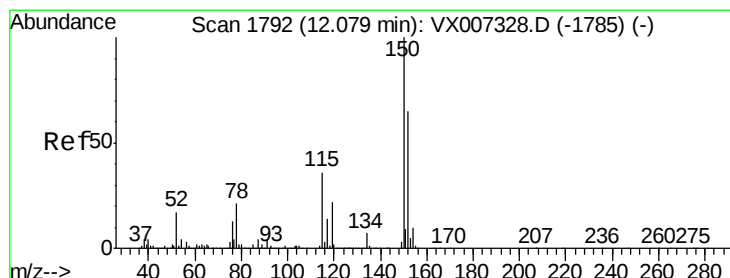
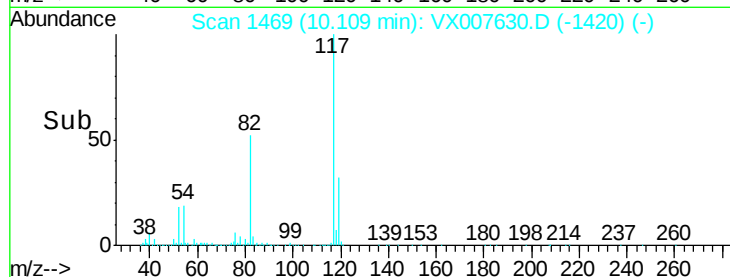
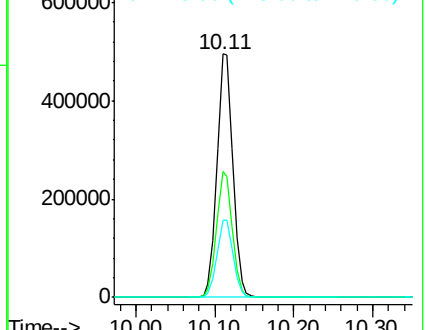
119 32.0 26.5 39.7



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): VX0

Ion 118.90 (118.60 to 119.60): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX007630.D

Acq: 21 Feb 2019 14:55

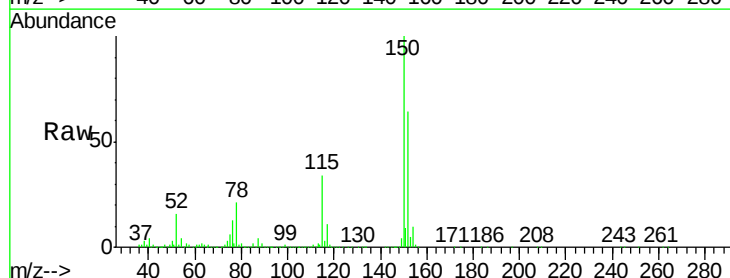
Tgt Ion:152 Resp: 324664

Ion Ratio Lower Upper

152 100

115 55.5 38.0 114.0

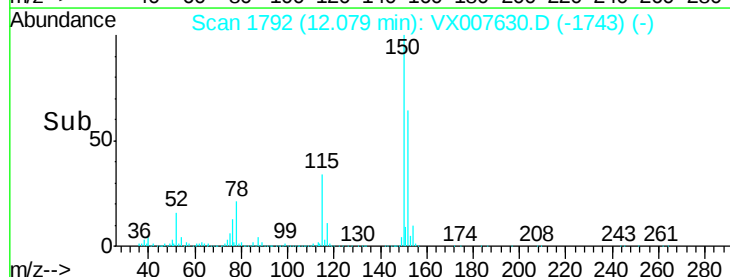
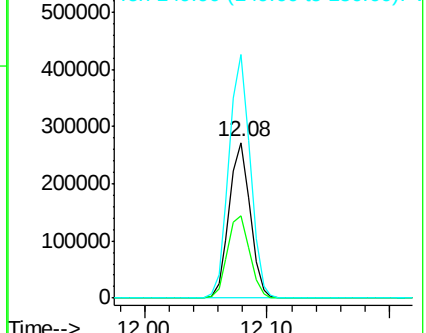
150 157.6 0.0 346.4

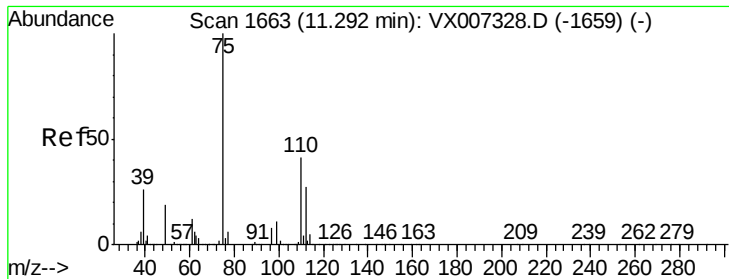


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#76

1,2,3-Trichloropropane

Concen: 23.433 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007630.D

Acq: 21 Feb 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

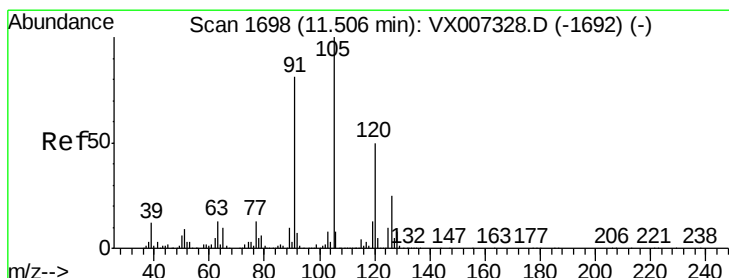
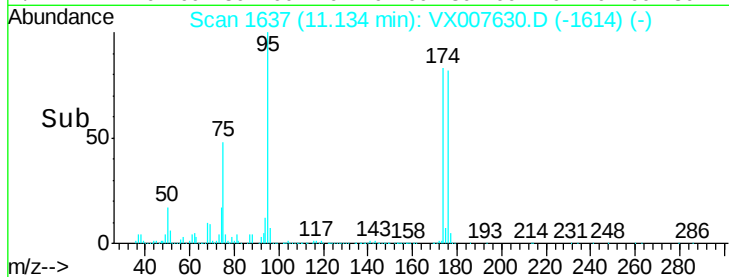
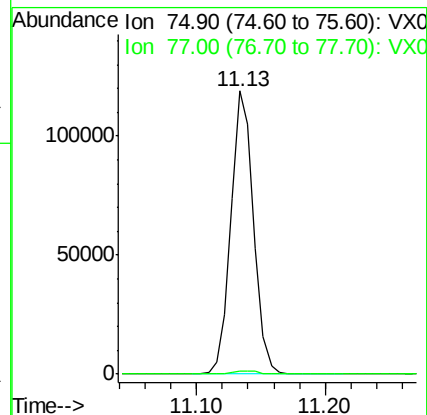
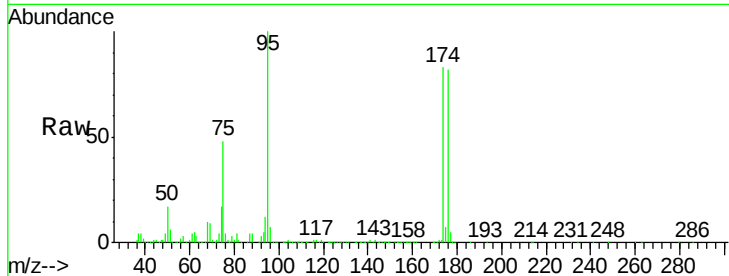
PB117250ZHE#04

Tot Ion: 75 Resp: 147983

Ion Ratio Lower Upper

75 100

77 1.2 23.0 69.0#



#80

1,3,5-Trimethylbenzene

Concen: 0.257 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX007630.D

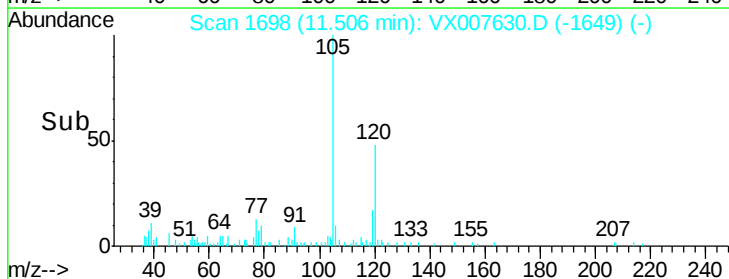
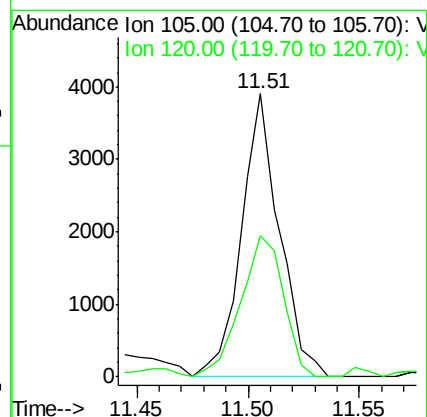
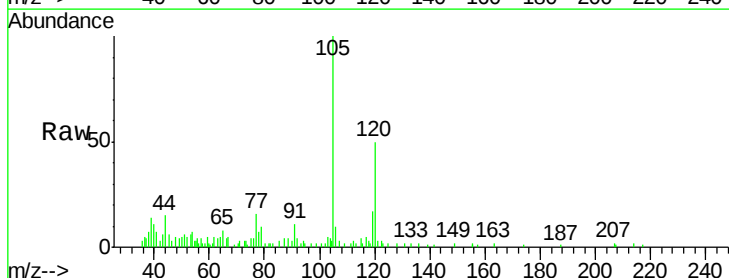
Acq: 21 Feb 2019 14:55

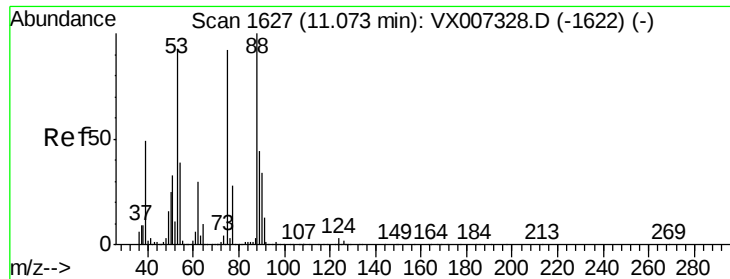
Tgt Ion: 105 Resp: 4644

Ion Ratio Lower Upper

105 100

120 56.2 25.3 75.8





#81

trans-1,4-Dichloro-2-butene

Concen: 70.533 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007630.D

Acq: 21 Feb 2019 14:55

Instrument :

MSVOA_X

ClientSampleId :

PB117250ZHE#04

Tot Ion: 75 Resp: 147983

Ion Ratio Lower Upper

75 100

53 0.4 81.0 121.6#

89 0.1 41.4 62.0#

