

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX021419\
 Data File : VX007529.D
 Acq On : 13 Feb 2019 19:10
 Operator : JC/SP
 Sample : K1463-07
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 M2-TI-02(PRE-GAC)

Quant Time: Feb 14 02:38:58 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	516948	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	794948	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	742713	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	361734	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	277424	50.56	ug/l	0.00
Spiked Amount			Recovery	=	101.12%	
35) Dibromofluoromethane	5.51	113	258057	49.89	ug/l	0.00
Spiked Amount			Recovery	=	99.78%	
50) Toluene-d8	8.71	98	942423	49.11	ug/l	0.00
Spiked Amount			Recovery	=	98.22%	
62) 4-Bromofluorobenzene	11.13	95	342665	48.91	ug/l	0.00
Spiked Amount			Recovery	=	97.82%	

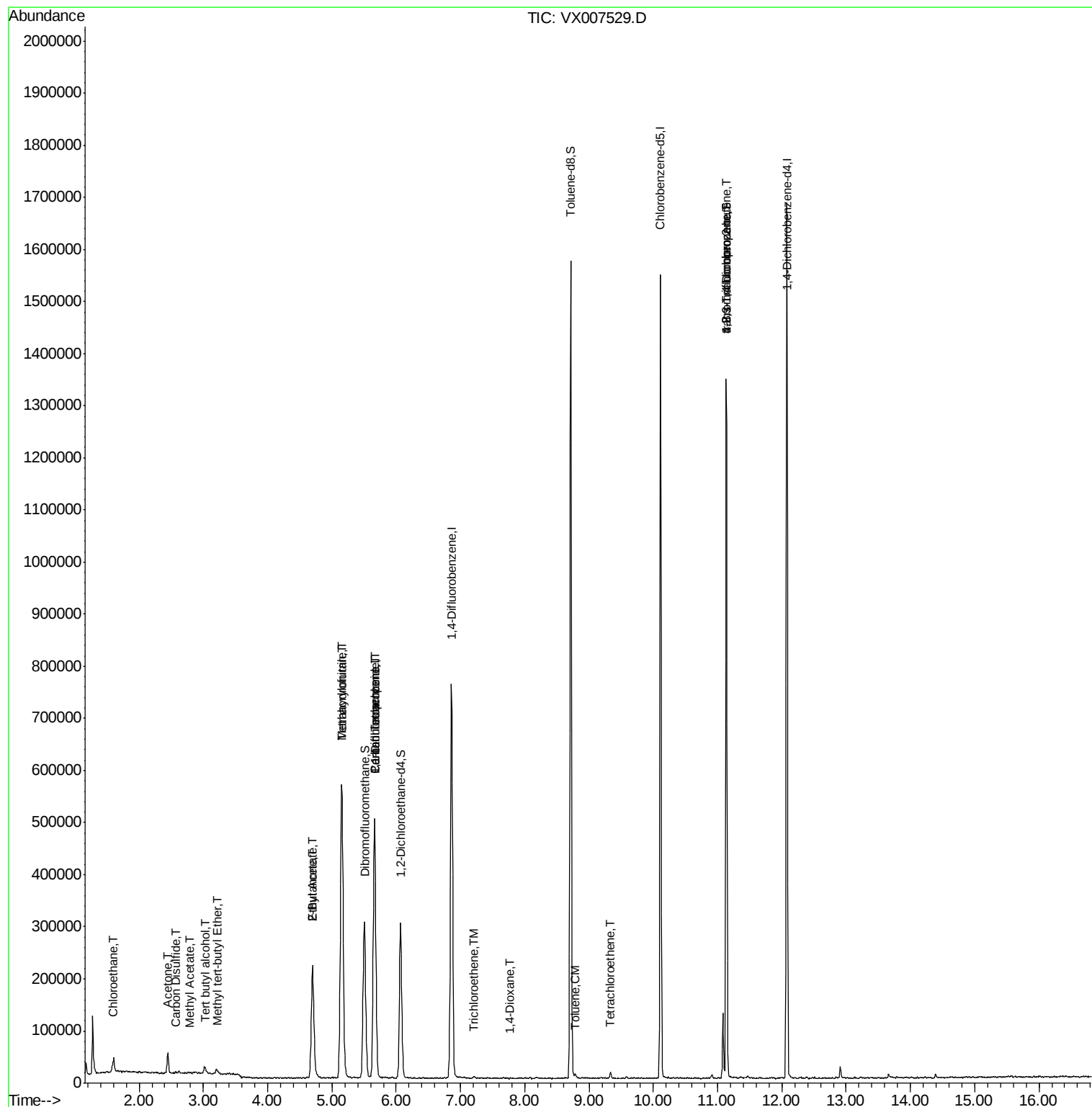
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Bromomethane	1.66	94	1424	Below Cal	#	47
6) Chloroethane	1.59	64	12658	3.426	ug/l #	51
11) Tert butyl alcohol	3.03	59	9291	8.182	ug/l #	73
16) Acetone	2.45	43	42986	17.102	ug/l	99
17) Carbon Disulfide	2.57	76	1340	2.221	ug/l #	60
18) Methyl Acetate	2.78	43	2529	0.975	ug/l #	78
19) Methyl tert-butyl Ether	3.22	73	10258	0.642	ug/l	95
20) Methylene Chloride	2.87	84	1269	Below Cal	#	55
25) 2-Butanone	4.70	43	379382	106.063	ug/l	99
29) Tetrahydrofuran	5.15	42	524934	233.341	ug/l	100
36) 1,1-Dichloropropene	5.66	75	33682	4.722	ug/l #	49
37) Ethyl Acetate	4.70	43	379382	52.618	ug/l #	68
38) Carbon Tetrachloride	5.67	117	46910	6.779	ug/l #	17
41) Methacrylonitrile	5.15	41	287877	74.497	ug/l #	43
44) Trichloroethene	7.21	130	1398	0.221	ug/l	70
49) 1,4-Dioxane	7.76	88	437	10.307	ug/l #	54
52) Toluene	8.79	92	2825	0.208	ug/l	81
64) Tetrachloroethene	9.34	164	2513	0.359	ug/l	90
76) 1,2,3-Trichloropropane	11.13	75	162772	23.134	ug/l #	33
81) trans-1,4-Dichloro-2-buten	11.13	75	162772	69.685	ug/l #	9

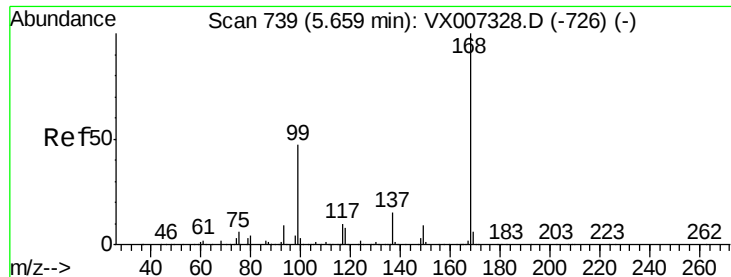
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX007529.D

Acq: 13 Feb 2019 19:10

Instrument :

MSVOA_X

ClientSampleId :

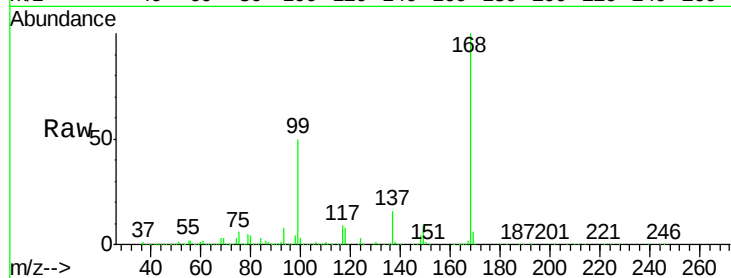
M2-TI-02(PRE-GAC)

Tot Ion:168 Resp: 516948

Ion Ratio Lower Upper

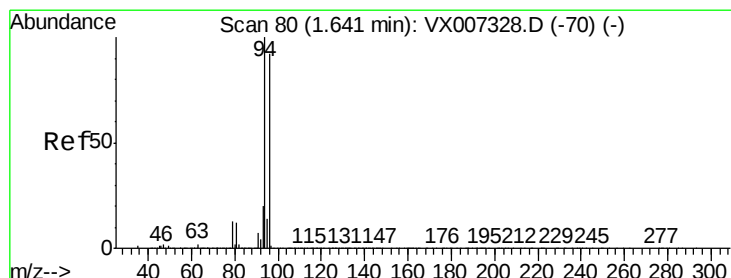
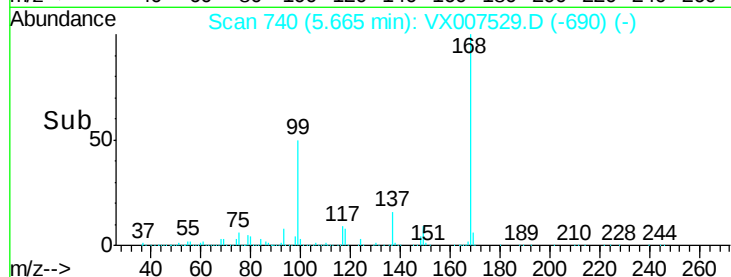
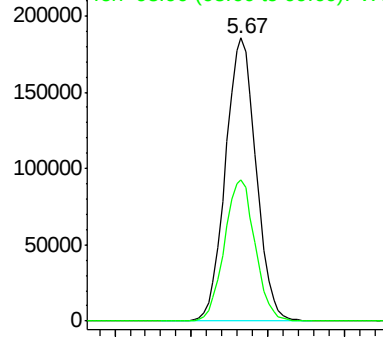
168 100

99 50.1 37.9 56.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#5

Bromomethane

Concen: Below Cal

RT: 1.66 min Scan# 83

Delta R.T. 0.02 min

Lab File: VX007529.D

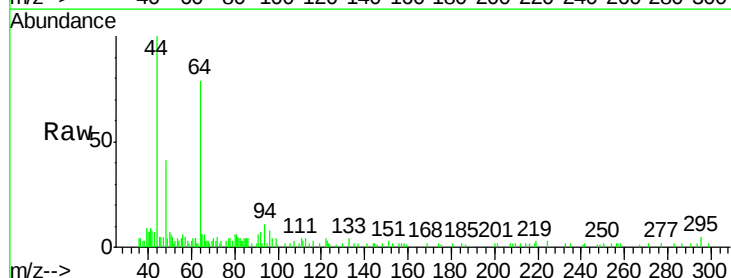
Acq: 13 Feb 2019 19:10

Tgt Ion: 94 Resp: 1424

Ion Ratio Lower Upper

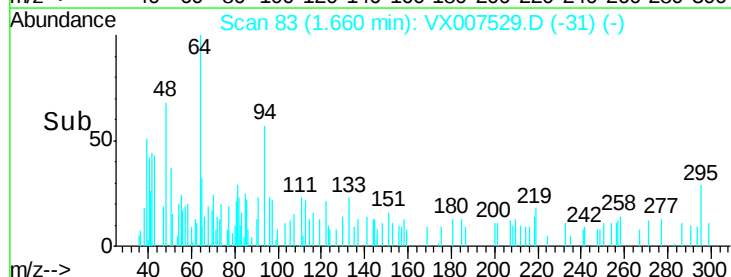
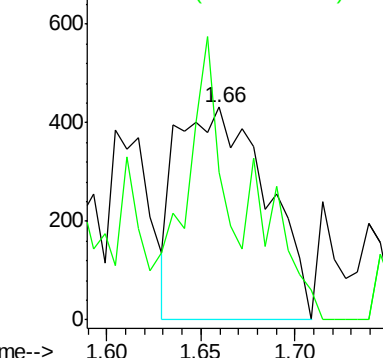
94 100

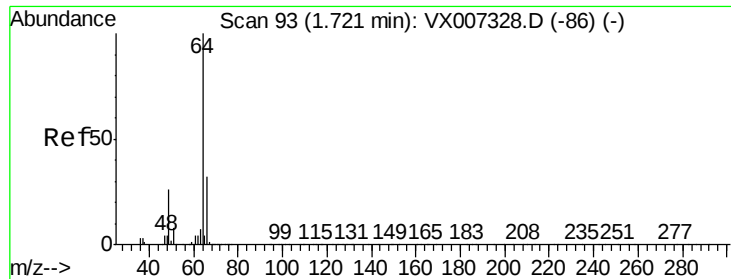
96 41.3 73.9 110.9#



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0





#6

Chloroethane

Concen: 3.426 ug/l

RT: 1.59 min Scan# 72

Delta R.T. -0.13 min

Lab File: VX007529.D

Acq: 13 Feb 2019 19:10

Instrument :

MSVOA_X

ClientSampleId :

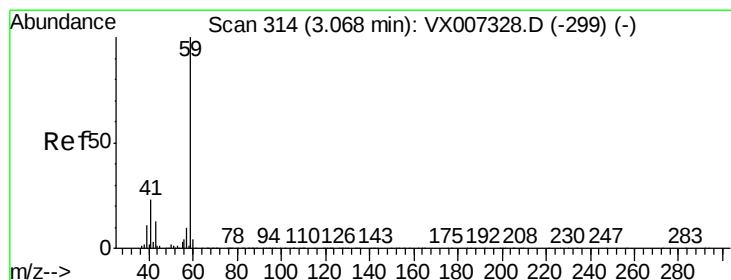
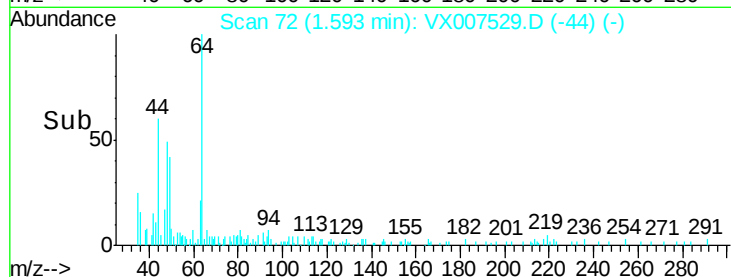
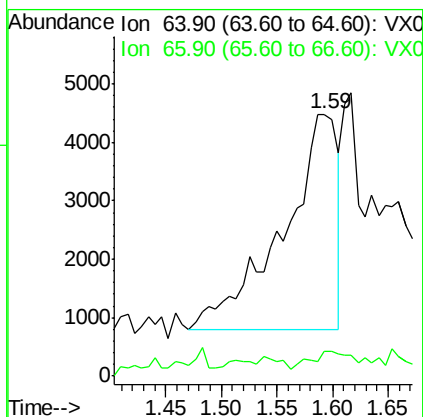
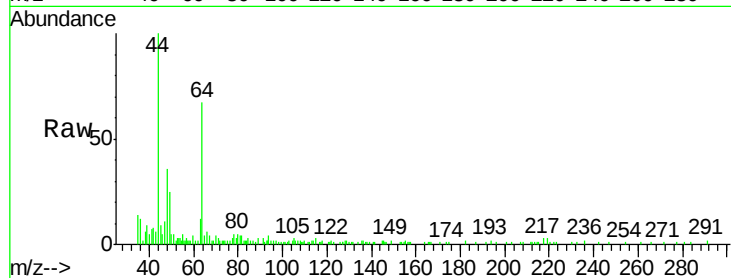
M2-TI-02(PRE-GAC)

Tot Ion: 64 Resp: 12658

Ion Ratio Lower Upper

64 100

66 4.6 25.5 38.3#



#11

Tert butyl alcohol

Concen: 8.182 ug/l

RT: 3.03 min Scan# 307

Delta R.T. -0.04 min

Lab File: VX007529.D

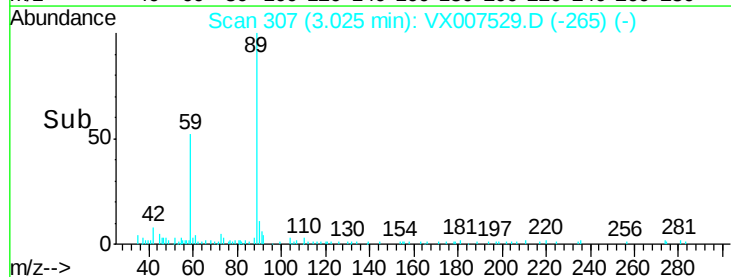
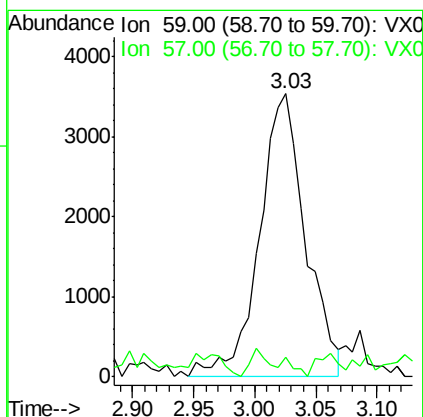
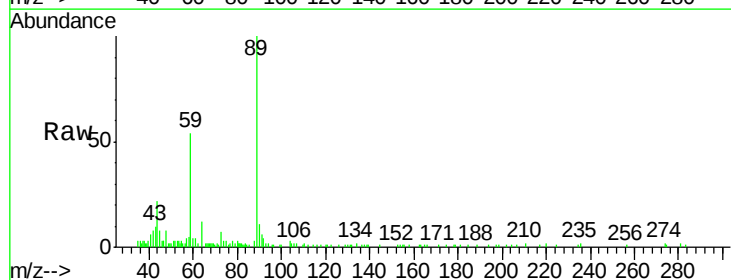
Acq: 13 Feb 2019 19:10

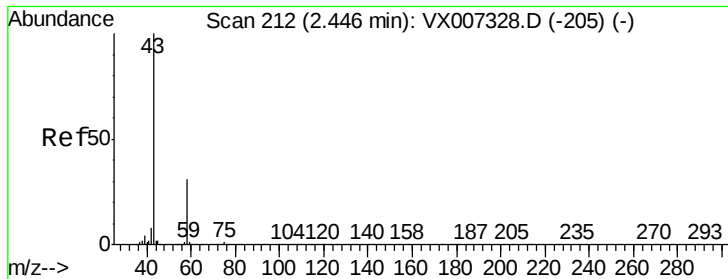
Tgt Ion: 59 Resp: 9291

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#





#16

Acetone

Concen: 17.102 ug/l

RT: 2.45 min Scan# 212

Delta R.T. -0.00 min

Lab File: VX007529.D

Acq: 13 Feb 2019 19:10

Instrument :

MSVOA_X

ClientSampleId :

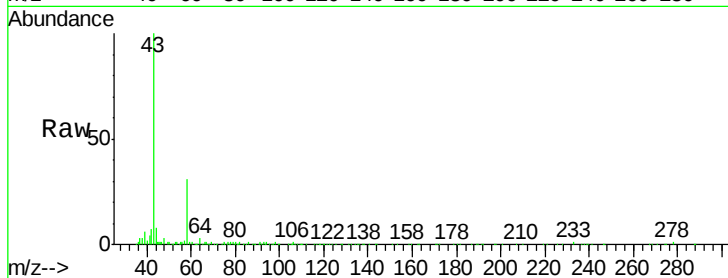
M2-TI-02(PRE-GAC)

Tot Ion: 43 Resp: 42986

Ion Ratio Lower Upper

43 100

58 30.6 24.9 37.3



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.45

25000

20000

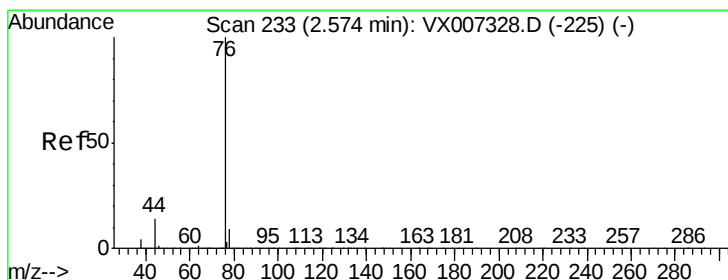
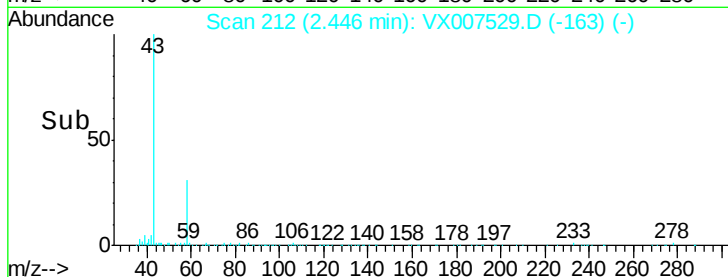
15000

10000

5000

0

Time--> 2.35 2.40 2.45 2.50 2.55



#17

Carbon Disulfide

Concen: 2.221 ug/l

RT: 2.57 min Scan# 232

Delta R.T. -0.01 min

Lab File: VX007529.D

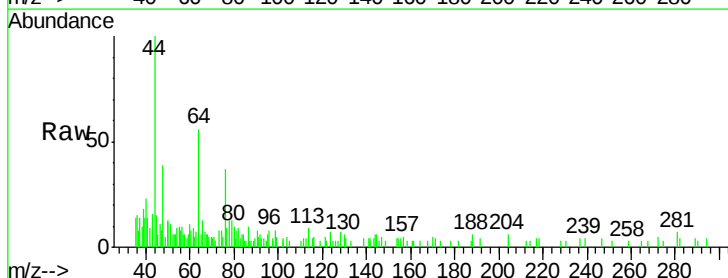
Acq: 13 Feb 2019 19:10

Tgt Ion: 76 Resp: 1340

Ion Ratio Lower Upper

76 100

78 23.2 7.1 10.7#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

800

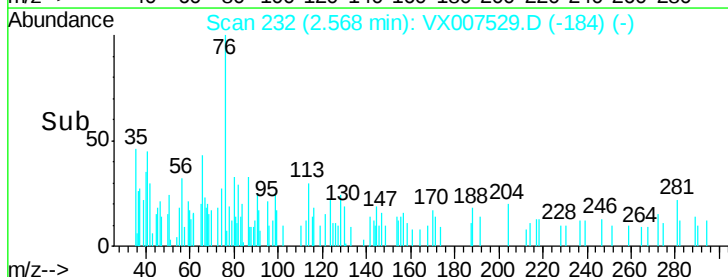
600

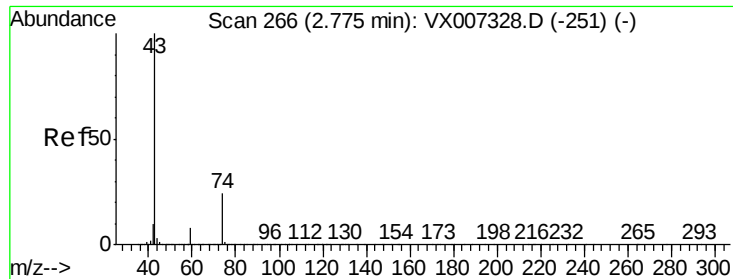
400

200

0

Time--> 2.55 2.60

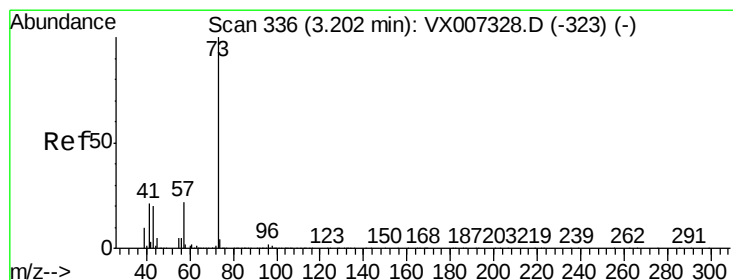
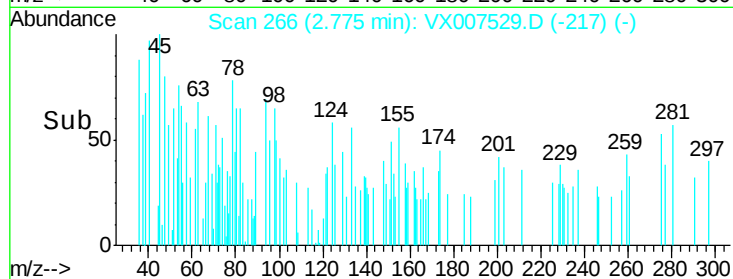
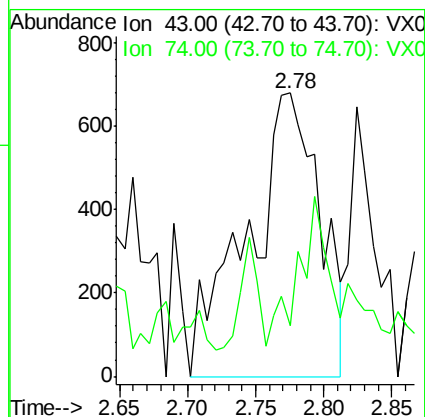
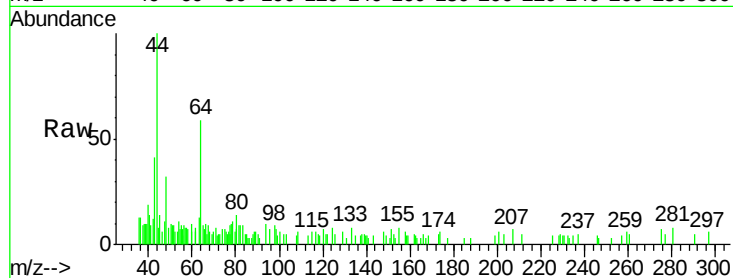




#18
Methyl Acetate
Concen: 0.975 ug/l
RT: 2.78 min Scan# 266
Delta R.T. 0.00 min
Lab File: VX007529.D
Acq: 13 Feb 2019 19:10

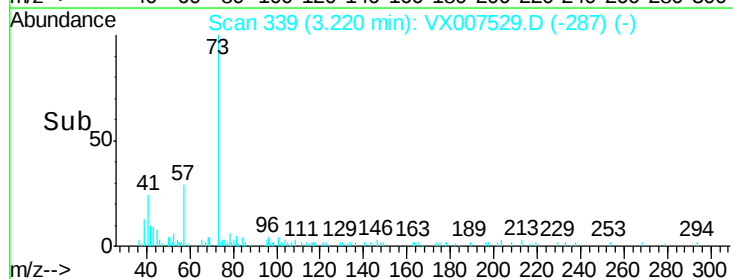
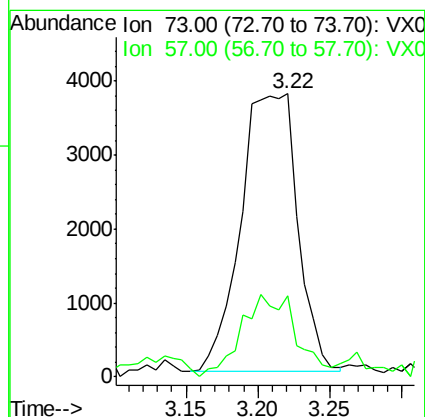
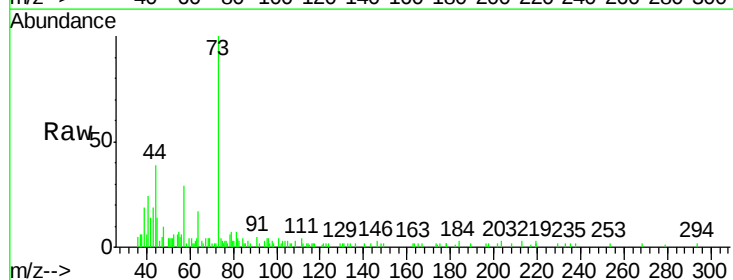
Instrument :
MSVOA_X
ClientSampleId :
M2-TI-02(PRE-GAC)

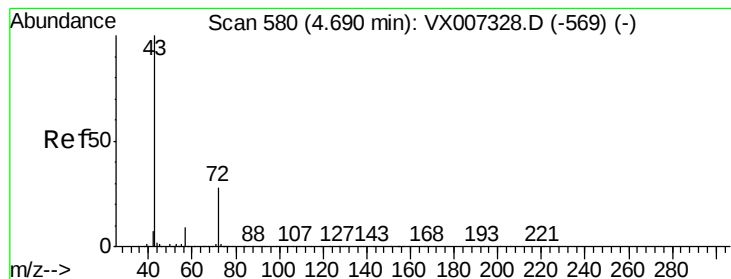
Tot Ion: 43 Resp: 2529
Ion Ratio Lower Upper
43 100
74 13.4 19.4 29.2#



#19
Methyl tert-butyl Ether
Concen: 0.642 ug/l
RT: 3.22 min Scan# 339
Delta R.T. 0.02 min
Lab File: VX007529.D
Acq: 13 Feb 2019 19:10

Tgt Ion: 73 Resp: 10258
Ion Ratio Lower Upper
73 100
57 24.8 17.8 26.8





#25

2-Butanone

Concen: 106.063 ug/l

RT: 4.70 min Scan# 581

Delta R.T. 0.01 min

Lab File: VX007529.D

Acq: 13 Feb 2019 19:10

Instrument :

MSVOA_X

ClientSampleId :

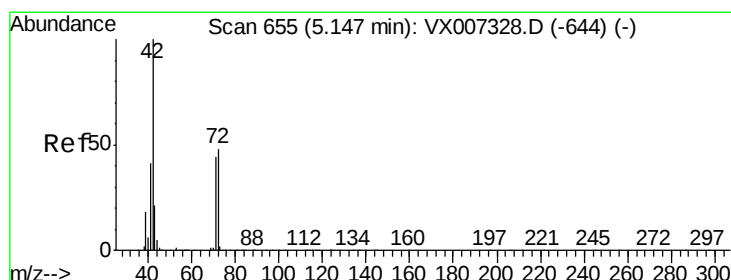
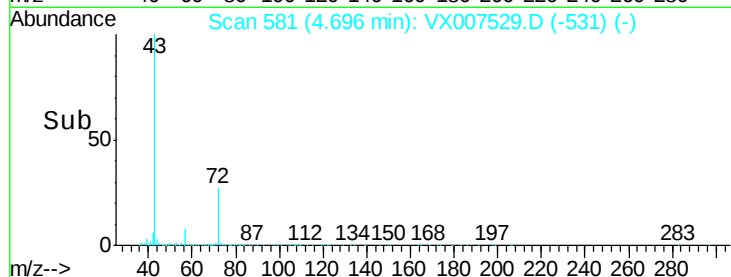
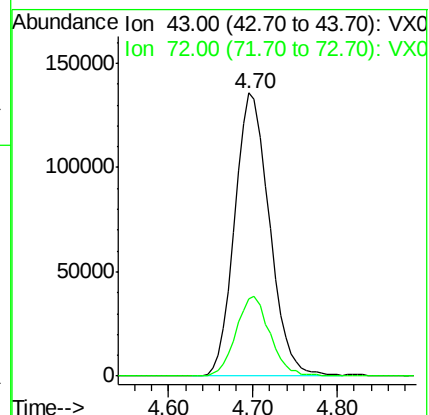
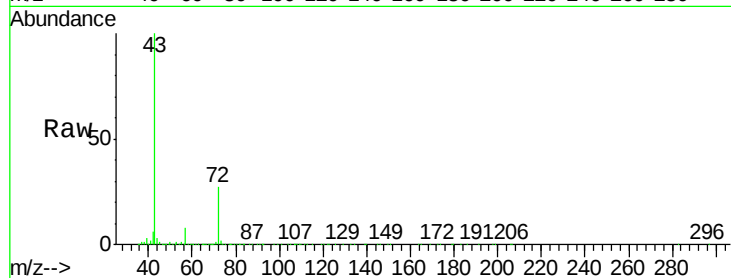
M2-TI-02(PRE-GAC)

Tot Ion: 43 Resp: 379382

Ion Ratio Lower Upper

43 100

72 27.2 22.2 33.2



#29

Tetrahydrofuran

Concen: 233.341 ug/l

RT: 5.15 min Scan# 655

Delta R.T. -0.00 min

Lab File: VX007529.D

Acq: 13 Feb 2019 19:10

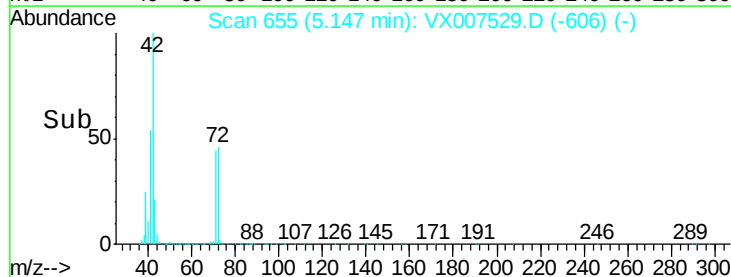
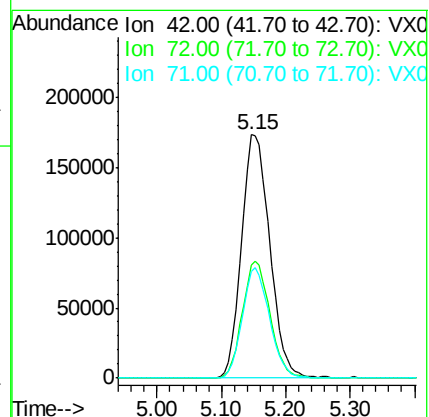
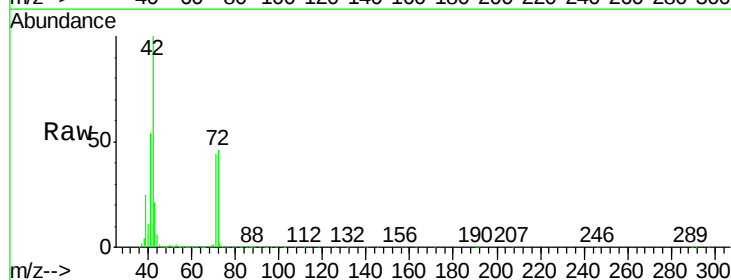
Tgt Ion: 42 Resp: 524934

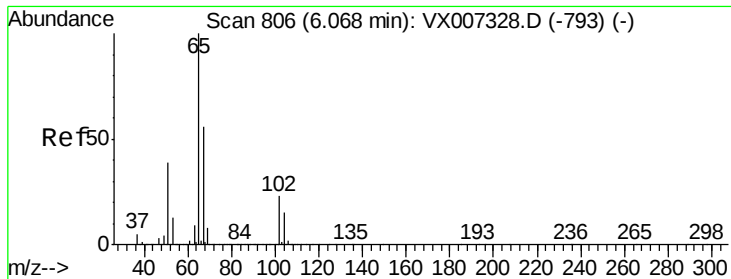
Ion Ratio Lower Upper

42 100

72 46.9 37.6 56.4

71 43.7 34.6 51.8





#33

1,2-Dichloroethane-d4

Concen: 50.560 ug/l

RT: 6.07 min Scan# 806

Delta R.T. -0.00 min

Lab File: VX007529.D

Acq: 13 Feb 2019 19:10

Instrument :

MSVOA_X

ClientSampleId :

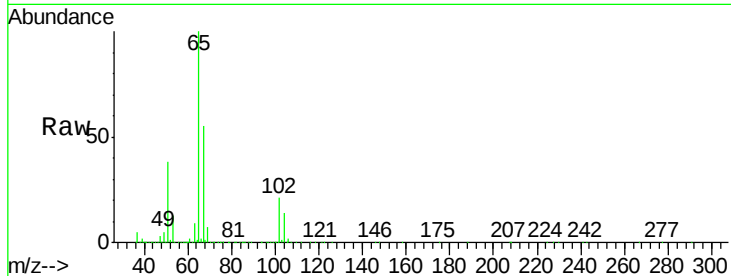
M2-TI-02(PRE-GAC)

Tot Ion: 65 Resp: 277424

Ion Ratio Lower Upper

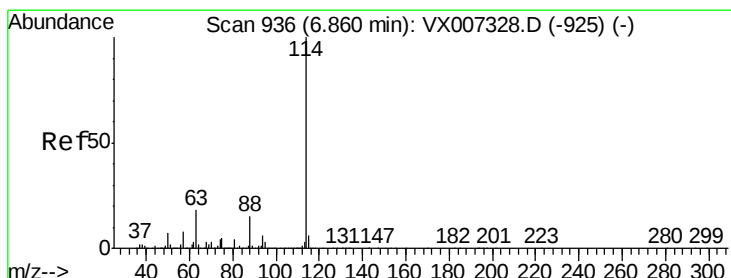
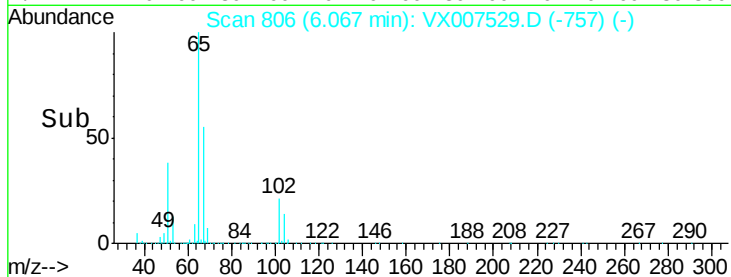
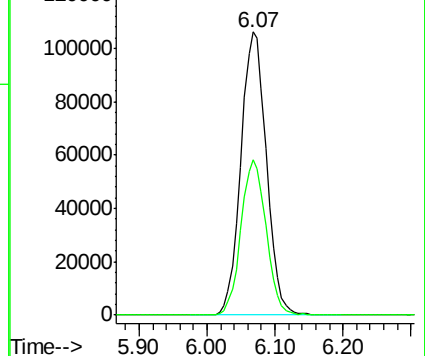
65 100

67 54.1 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: VX007529.D

Acq: 13 Feb 2019 19:10

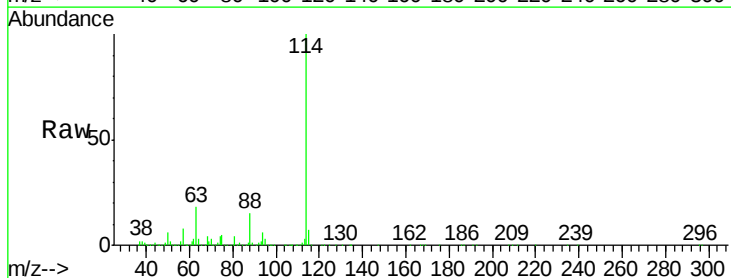
Tgt Ion: 114 Resp: 794948

Ion Ratio Lower Upper

114 100

63 17.8 0.0 35.6

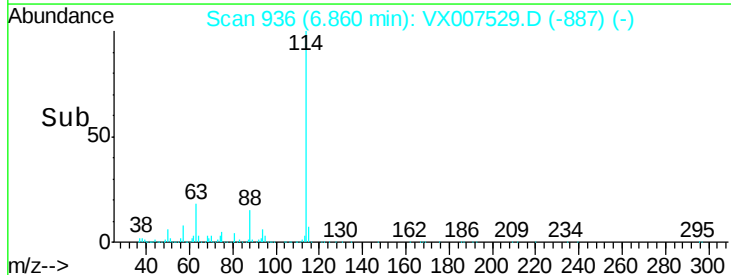
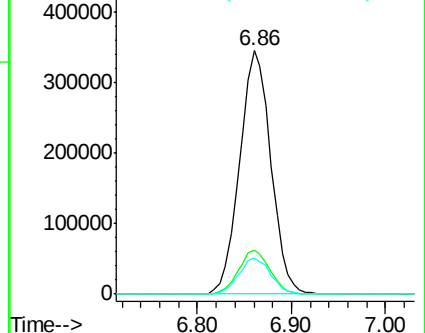
88 14.8 0.0 29.6

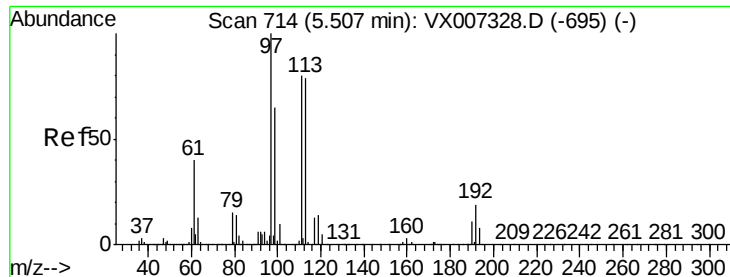


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0





#35

Dibromofluoromethane

Concen: 49.891 ug/l

RT: 5.51 min Scan# 714

Delta R.T. -0.00 min

Lab File: VX007529.D

Acq: 13 Feb 2019 19:10

Instrument :

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ClientSampleId :

M2-TI-02(PRE-GAC)

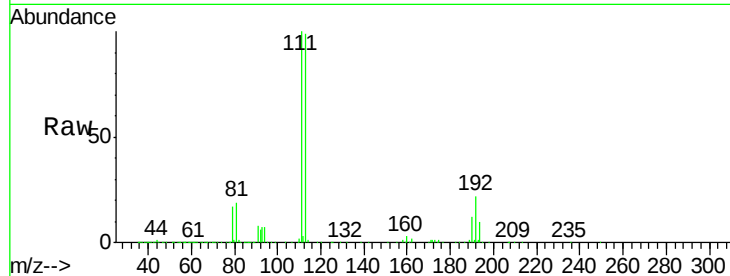
Tot Ion:113 Resp: 258057

Ion Ratio Lower Upper

113 100

111 101.8 81.8 122.8

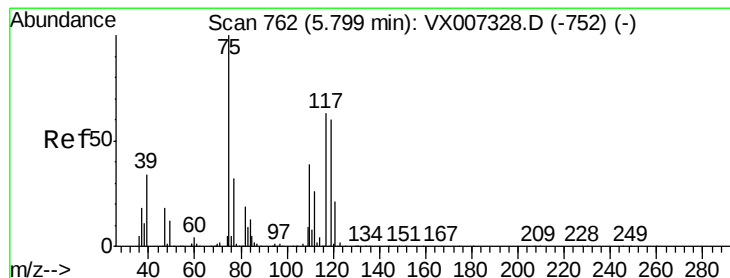
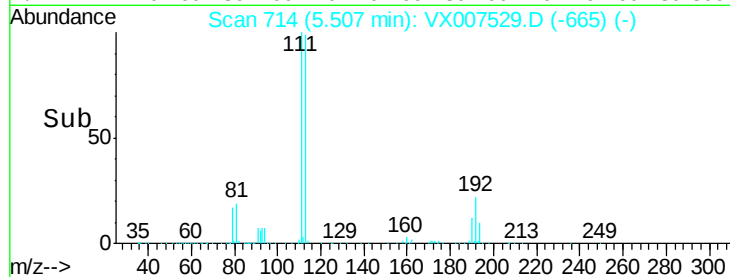
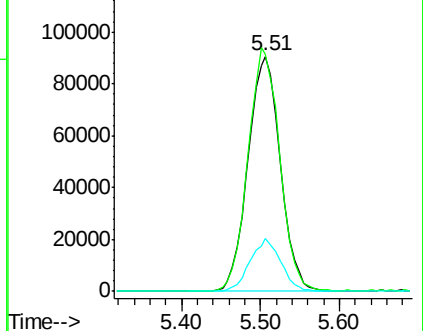
192 21.3 18.5 27.7



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: 4.722 ug/l

RT: 5.66 min Scan# 739

Delta R.T. -0.14 min

Lab File: VX007529.D

Acq: 13 Feb 2019 19:10

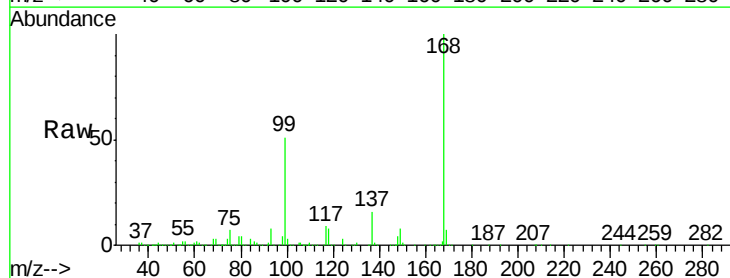
Tgt Ion: 75 Resp: 33682

Ion Ratio Lower Upper

75 100

110 10.9 20.0 59.9#

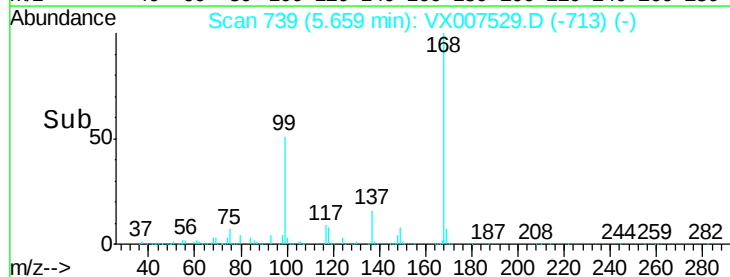
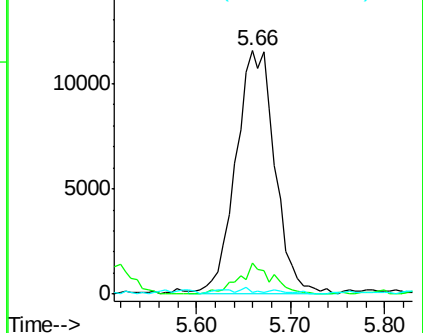
77 0.7 24.7 37.1#

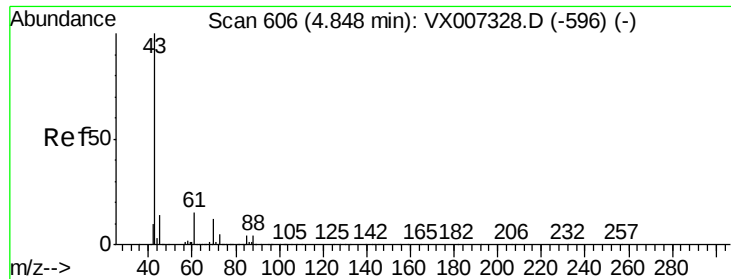


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#37

Ethyl Acetate

Concen: 52.618 ug/l

RT: 4.70 min Scan# 581

Delta R.T. -0.15 min

Lab File: VX007529.D

Acq: 13 Feb 2019 19:10

Instrument :

MSVOA_X

ClientSampleId :

M2-TI-02(PRE-GAC)

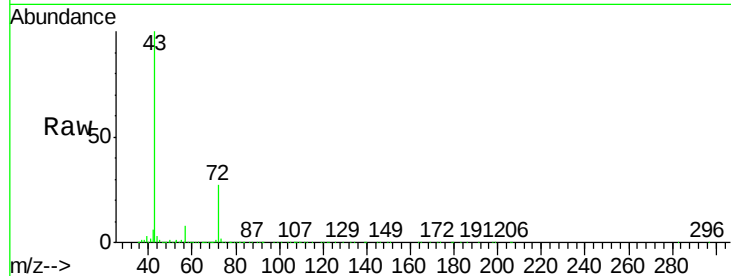
Tot Ion: 43 Resp: 379382

Ion Ratio Lower Upper

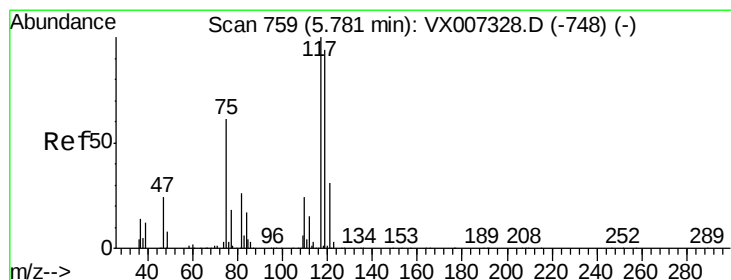
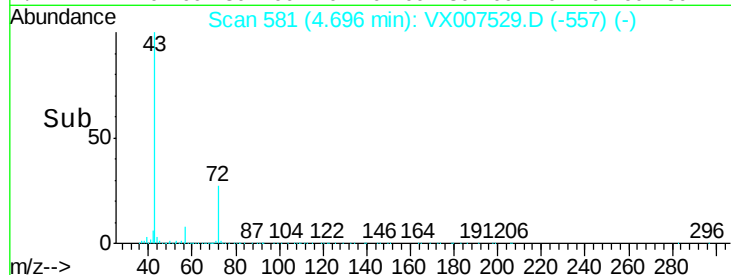
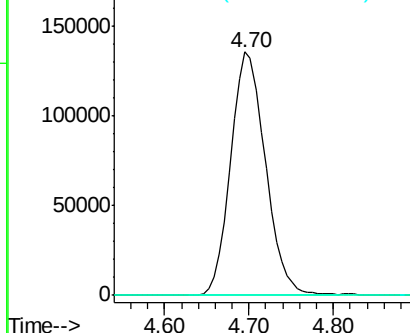
43 100

61 0.1 11.3 16.9#

70 0.2 8.6 13.0#



Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 70.00 (69.70 to 70.70): VX0



#38

Carbon Tetrachloride

Concen: 6.779 ug/l

RT: 5.67 min Scan# 740

Delta R.T. -0.12 min

Lab File: VX007529.D

Acq: 13 Feb 2019 19:10

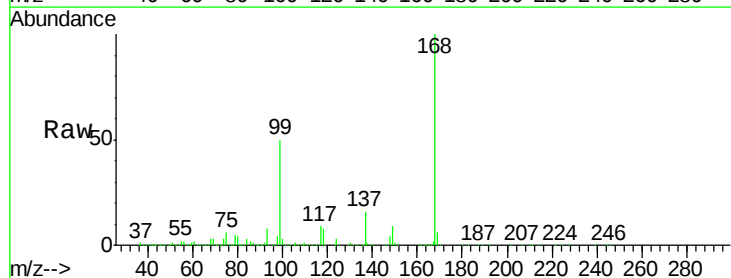
Tgt Ion: 117 Resp: 46910

Ion Ratio Lower Upper

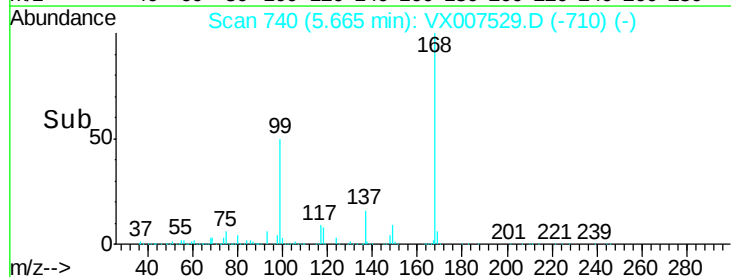
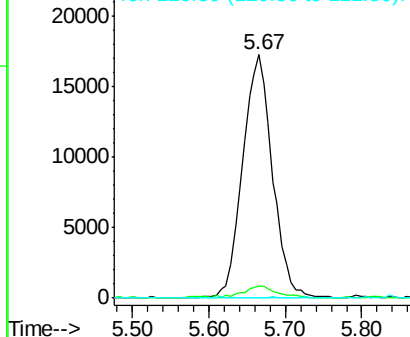
117 100

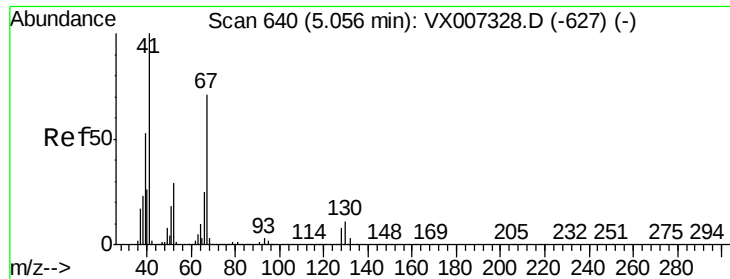
119 4.9 75.3 112.9#

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





#41

Methacrylonitrile

Concen: 74.497 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.10 min

Lab File: VX007529.D

Acq: 13 Feb 2019 19:10

Instrument :

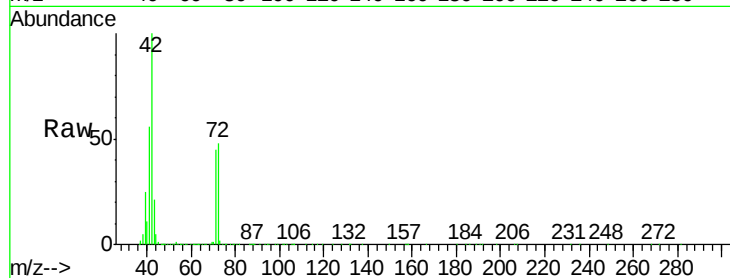
MSVOA_X

ClientSampleId :

M2-TI-02(PRE-GAC)

Tot Ion: 41 Resp: 287877

Ion	Ratio	Lower	Upper
41	100		
39	45.2	44.5	66.7
67	0.1	60.4	90.6#
52	0.1	24.1	36.1#

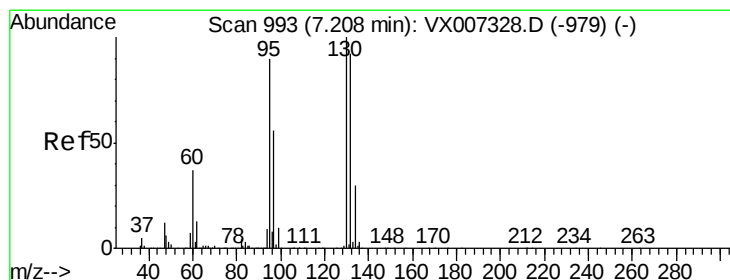
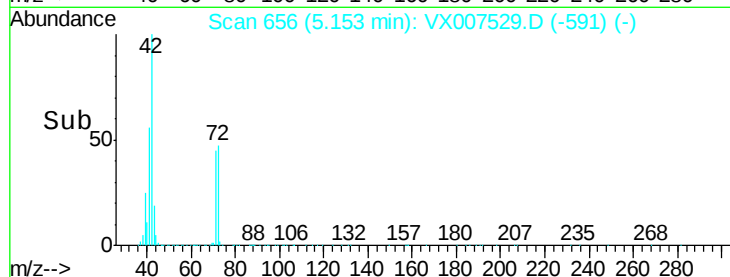
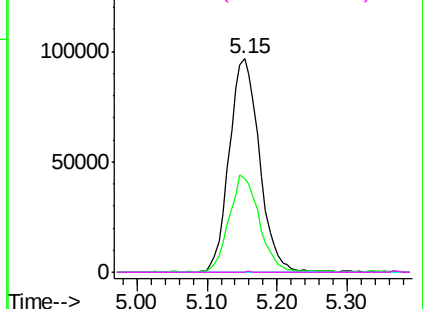


Abundance Ion 41.00 (40.70 to 41.70): VX0

Ion 39.00 (38.70 to 39.70): VX0

Ion 67.00 (66.70 to 67.70): VX0

Ion 52.00 (51.70 to 52.70): VX0



#44

Trichloroethene

Concen: 0.221 ug/l

RT: 7.21 min Scan# 994

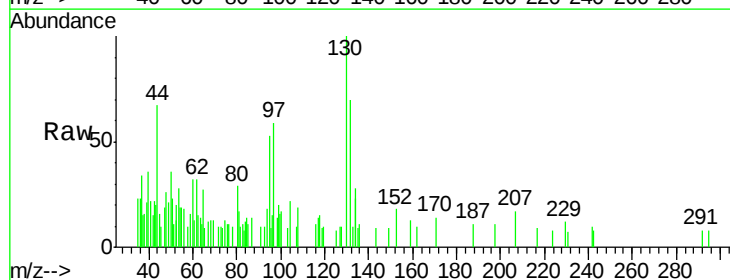
Delta R.T. 0.01 min

Lab File: VX007529.D

Acq: 13 Feb 2019 19:10

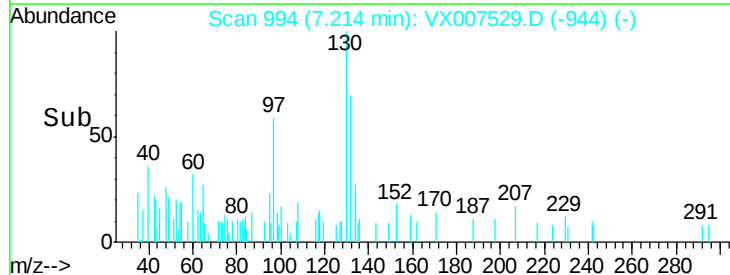
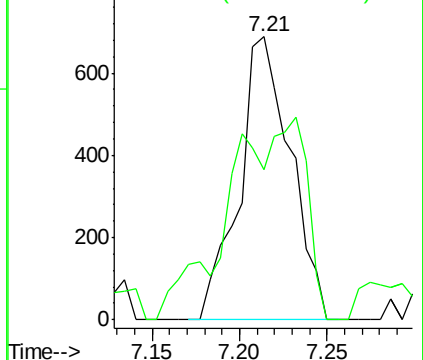
Tgt Ion: 130 Resp: 1398

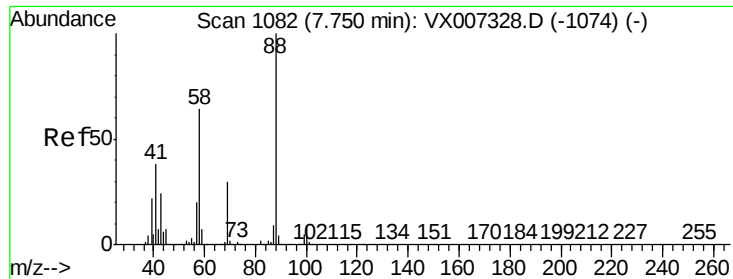
Ion	Ratio	Lower	Upper
130	100		
95	61.9	0.0	180.0



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VX0

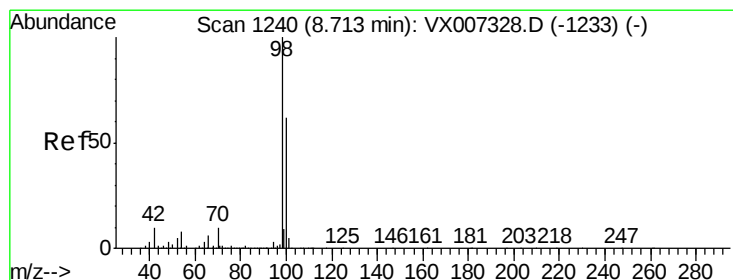
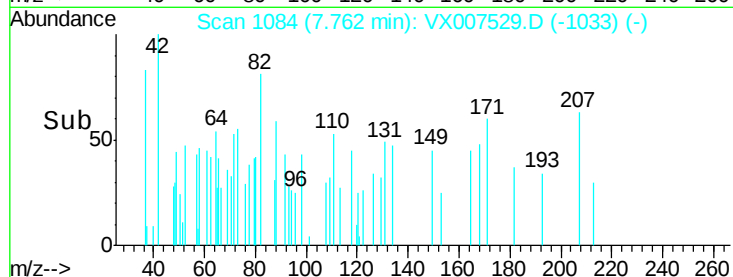
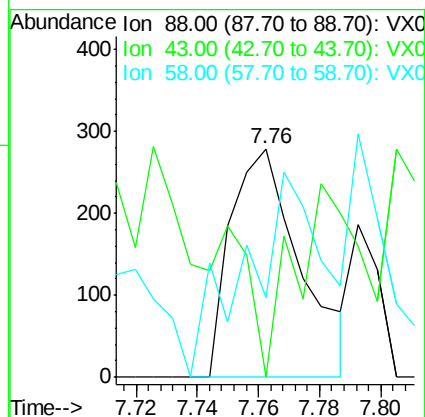
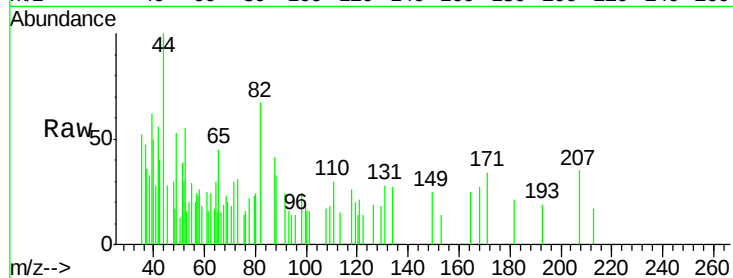




#49
1,4-Dioxane
Concen: 10.307 ug/l
RT: 7.76 min Scan# 1084
Delta R.T. 0.01 min
Lab File: VX007529.D
Acq: 13 Feb 2019 19:10

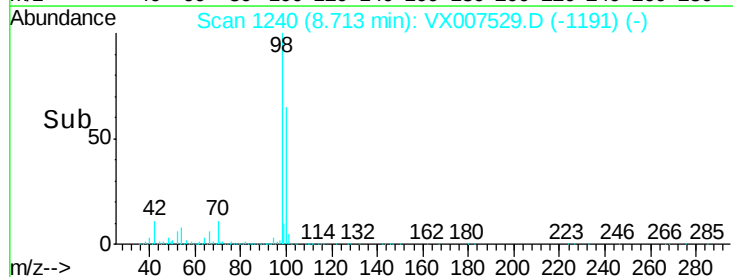
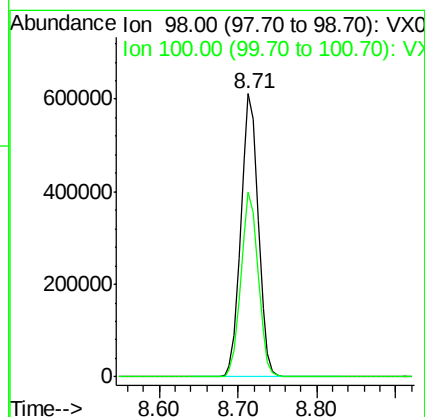
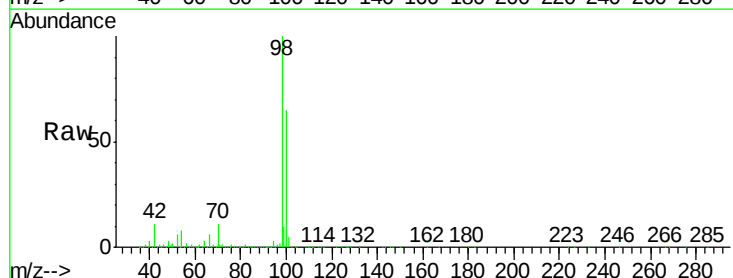
Instrument :
MSVOA_X
ClientSampleId :
M2-TI-02(PRE-GAC)

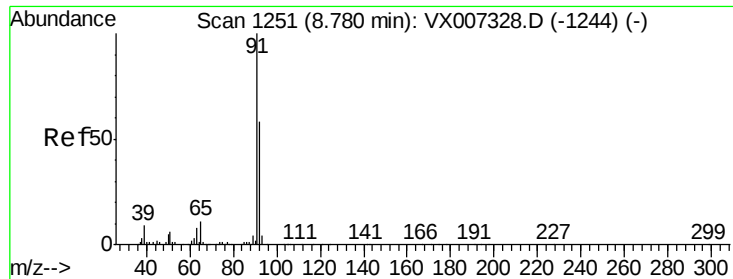
Tot Ion: 88 Resp: 437
Ion Ratio Lower Upper
88 100
43 0.0 24.2 36.4#
58 98.9 53.0 79.4#



#50
Toluene-d8
Concen: 49.108 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VX007529.D
Acq: 13 Feb 2019 19:10

Tgt Ion: 98 Resp: 942423
Ion Ratio Lower Upper
98 100
100 64.8 51.6 77.4





#52

Toluene

Concen: 0.208 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.01 min

Lab File: VX007529.D

Acq: 13 Feb 2019 19:10

Instrument :

MSVOA_X

ClientSampleId :

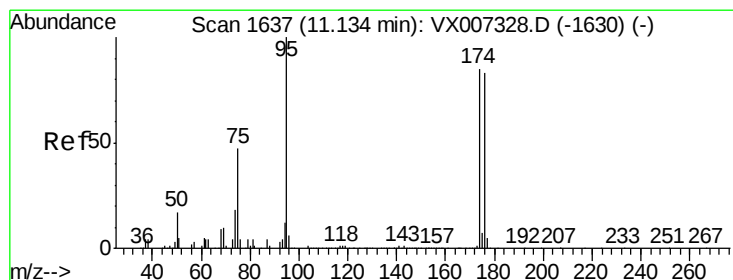
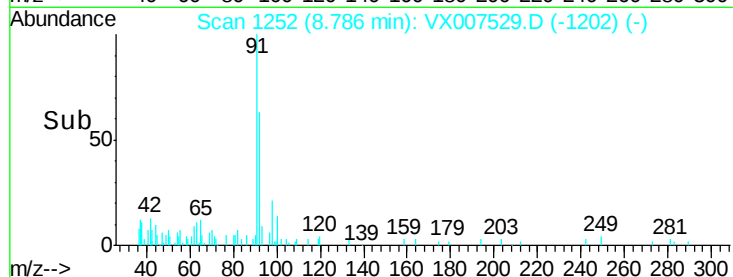
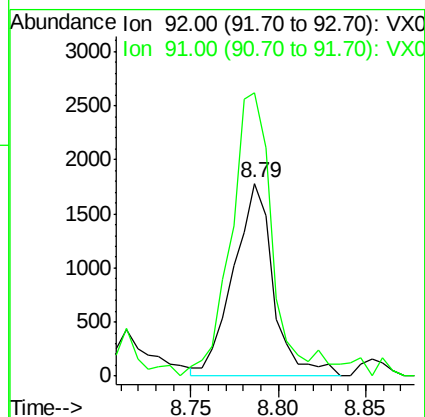
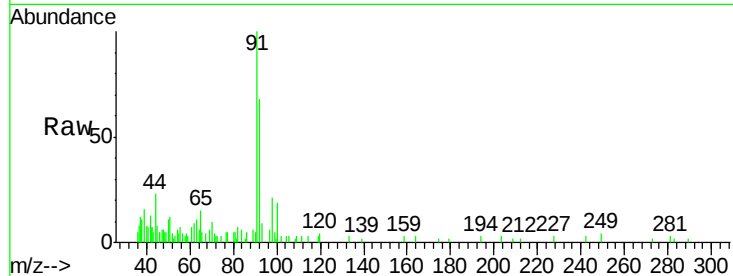
M2-TI-02(PRE-GAC)

Tot Ion: 92 Resp: 2825

Ion Ratio Lower Upper

92 100

91 148.0 139.1 208.7



#62

4-Bromofluorobenzene

Concen: 48.907 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX007529.D

Acq: 13 Feb 2019 19:10

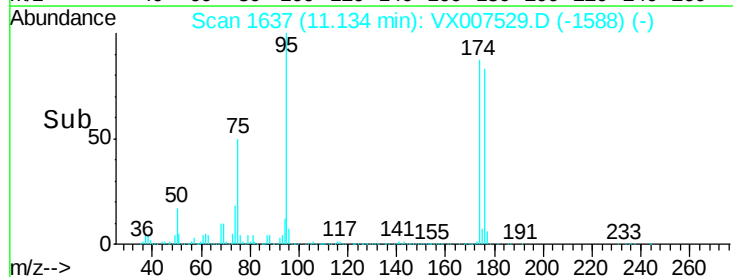
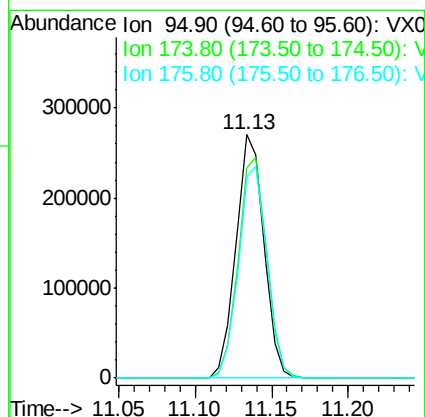
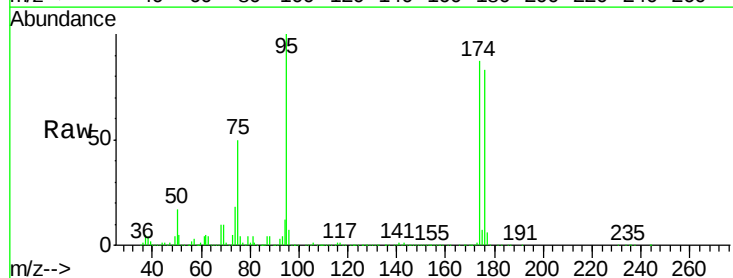
Tgt Ion: 95 Resp: 342665

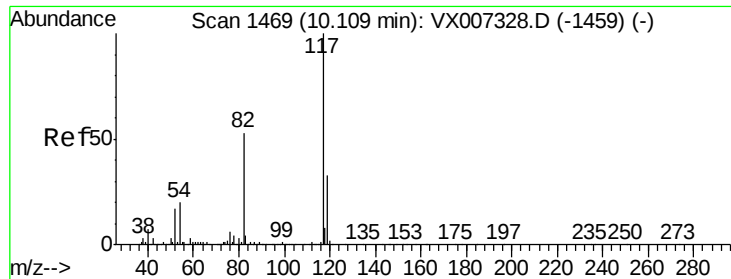
Ion Ratio Lower Upper

95 100

174 92.3 0.0 189.2

176 89.0 0.0 186.2

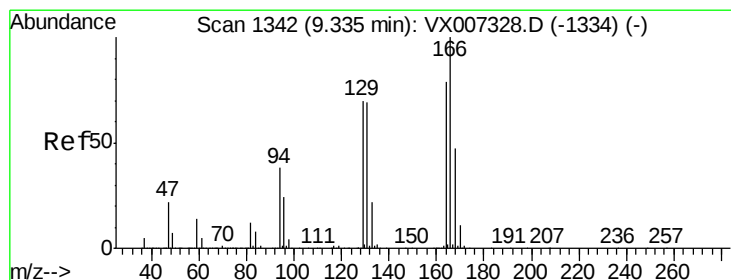
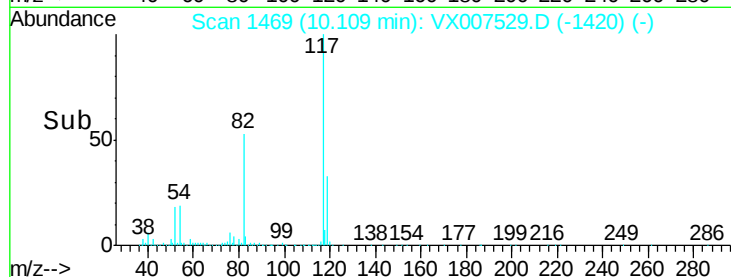
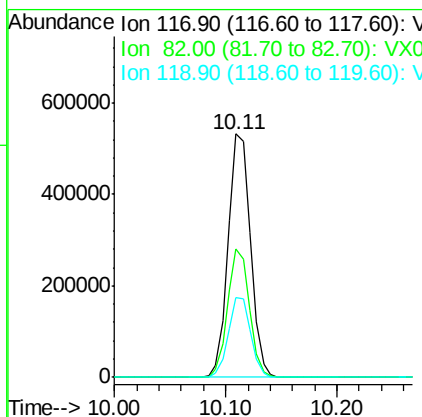
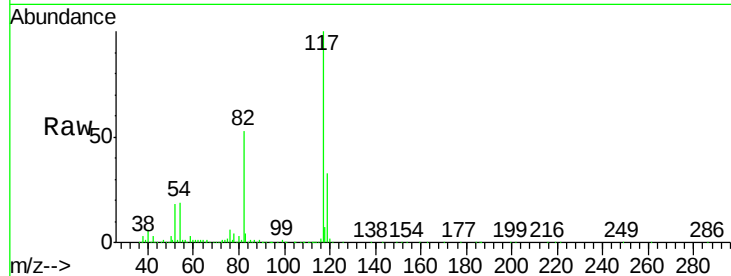




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VX007529.D
Acq: 13 Feb 2019 19:10

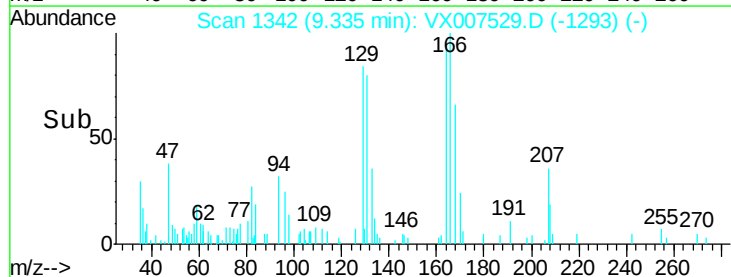
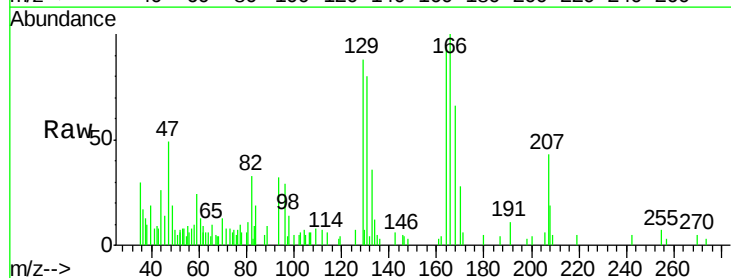
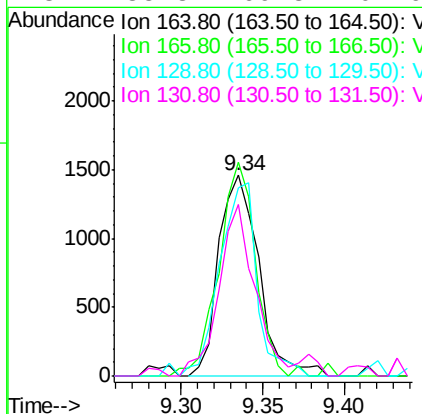
Instrument :
MSVOA_X
ClientSampleId :
M2-TI-02(PRE-GAC)

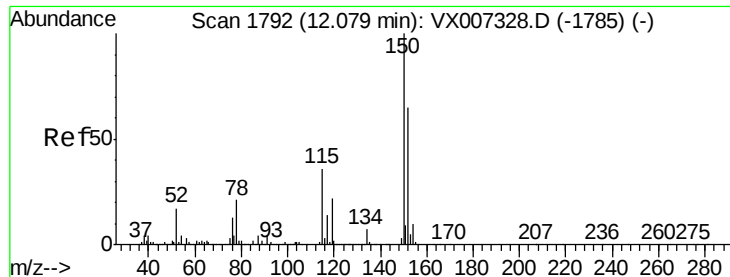
Tot Ion:117 Resp: 742713
Ion Ratio Lower Upper
117 100
82 52.7 42.1 63.1
119 32.9 26.5 39.7



#64
Tetrachloroethene
Concen: 0.359 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX007529.D
Acq: 13 Feb 2019 19:10

Tgt Ion:164 Resp: 2513
Ion Ratio Lower Upper
164 100
166 106.4 101.0 151.4
129 93.6 70.5 105.7
131 85.3 69.8 104.6





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX007529.D

Acq: 13 Feb 2019 19:10

Instrument :

MSVOA_X

ClientSampleId :

M2-TI-02(PRE-GAC)

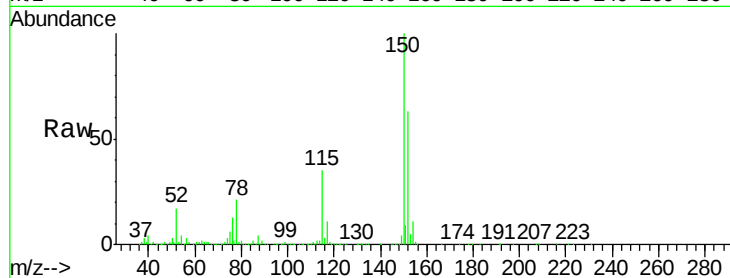
Tot Ion:152 Resp: 361734

Ion Ratio Lower Upper

152 100

115 54.9 38.0 114.0

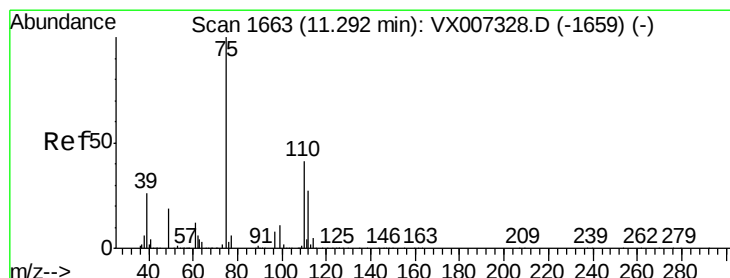
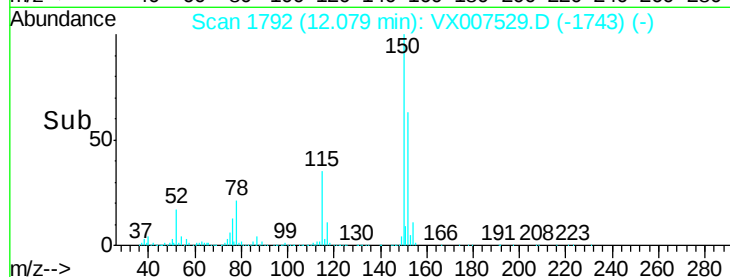
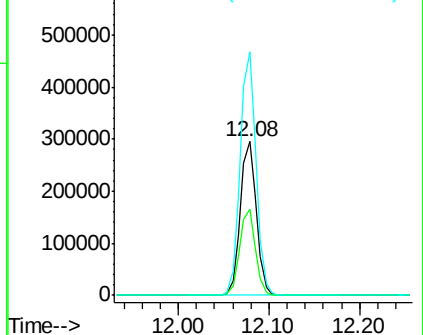
150 156.4 0.0 346.4



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: 23.134 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX007529.D

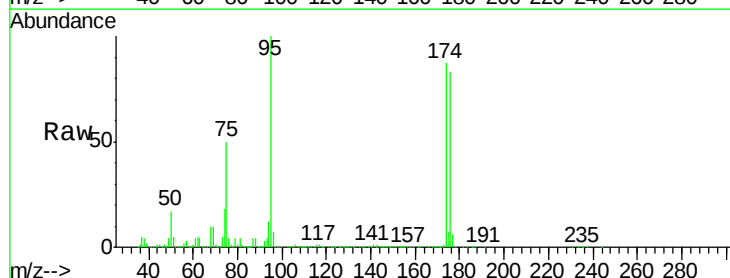
Acq: 13 Feb 2019 19:10

Tgt Ion: 75 Resp: 162772

Ion Ratio Lower Upper

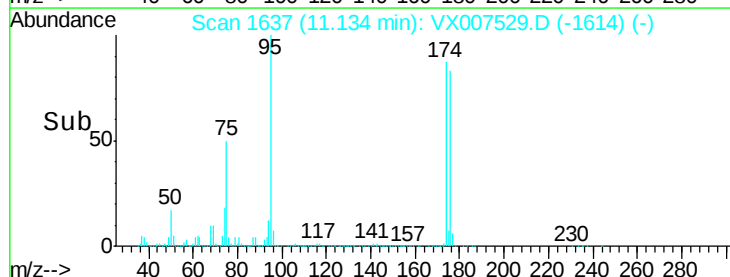
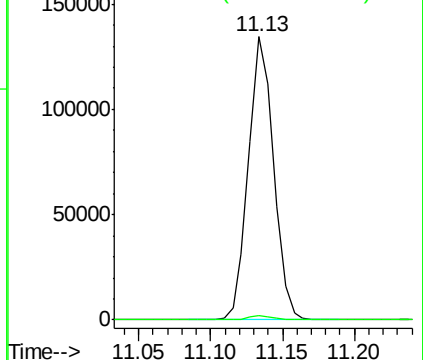
75 100

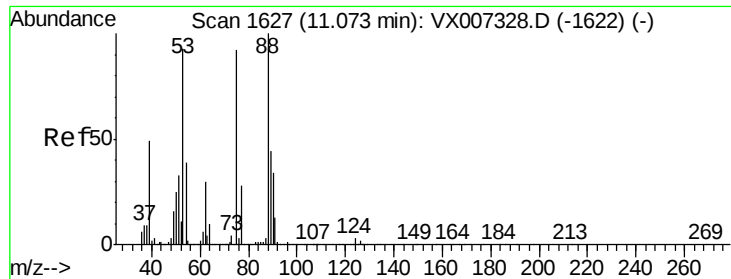
77 1.6 23.0 69.0#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#81

trans-1,4-Dichloro-2-butene

Concen: 69.685 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX007529.D

Acq: 13 Feb 2019 19:10

Instrument :

MSVOA_X

ClientSampleId :

M2-TI-02(PRE-GAC)

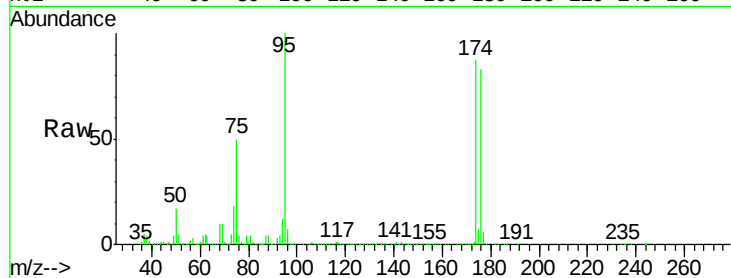
Tot Ion: 75 Resp: 162772

Ion Ratio Lower Upper

75 100

53 0.3 81.0 121.6#

89 0.1 41.4 62.0#



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

