

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX032819\
 Data File : VX008532.D
 Acq On : 28 Mar 2019 20:06
 Operator : JC/SP
 Sample : K2124-04
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SUMP-PIT-2

Quant Time: Mar 29 01:32:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032519W.M
 Quant Title : SW846 8260
 QLast Update : Tue Mar 26 07:57:20 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	230869	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	389891	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	340497	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	141871	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.06	65	161613	46.17	ug/l	0.00
Spiked Amount			Recovery	=	92.34%	
35) Dibromofluoromethane	5.50	113	118745	46.71	ug/l	0.00
Spiked Amount			Recovery	=	93.42%	
50) Toluene-d8	8.71	98	492825	48.48	ug/l	0.00
Spiked Amount			Recovery	=	96.96%	
62) 4-Bromofluorobenzene	11.13	95	167963	44.59	ug/l	0.00
Spiked Amount			Recovery	=	89.18%	

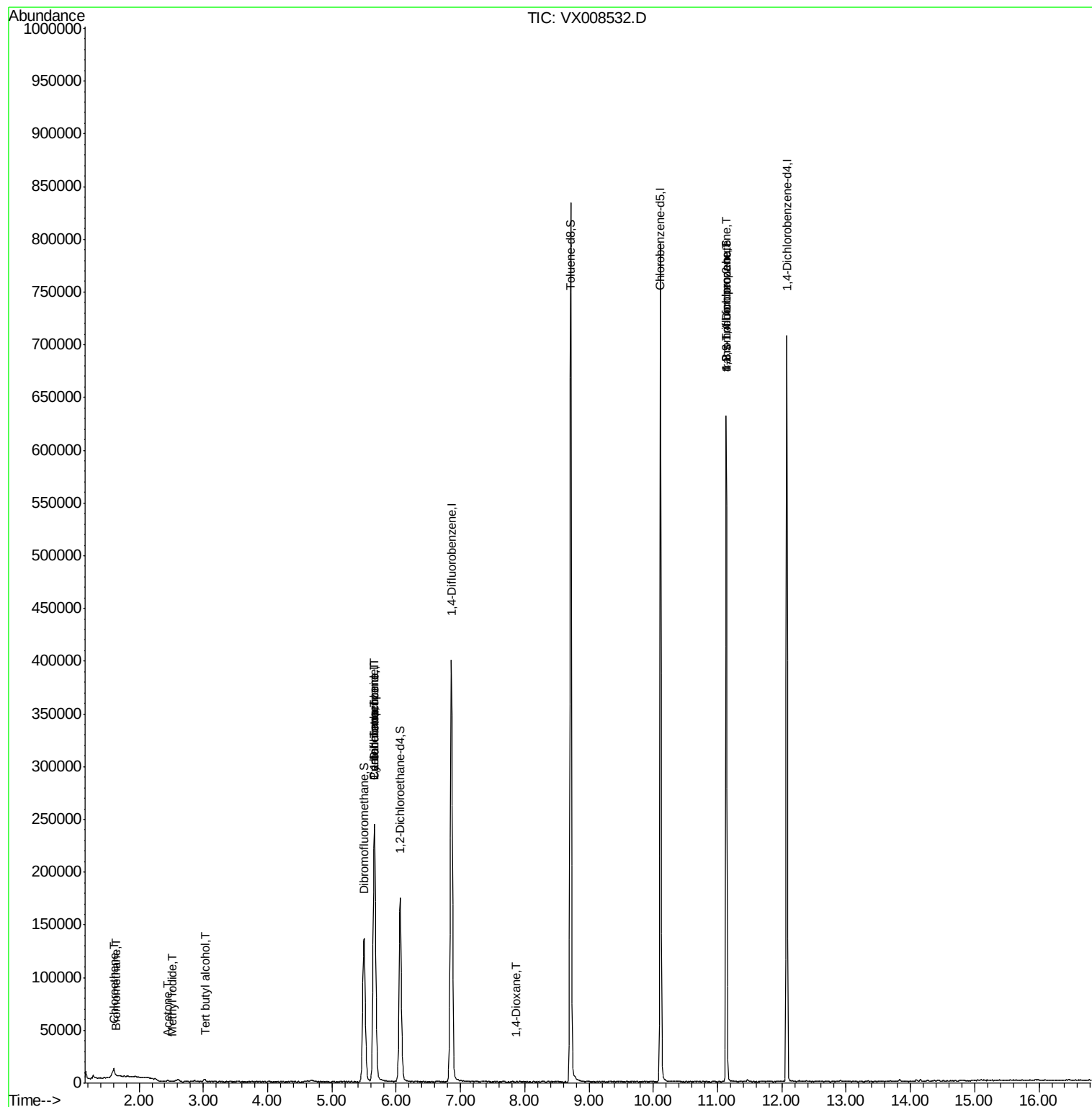
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	1.32	50	642	Below Cal	#	75
5) Bromomethane	1.64	94	240	1.924	ug/l	86
6) Chloroethane	1.60	64	6167	2.740	ug/l #	54
10) Methyl Iodide	2.52	142	182	4.195	ug/l #	78
11) Tert butyl alcohol	3.03	59	1539	1.985	ug/l #	81
16) Acetone	2.44	43	1642	0.898	ug/l	100
17) Carbon Disulfide	2.57	76	872	Below Cal	#	80
20) Methylene Chloride	2.87	84	311	Below Cal	#	65
21) trans-1,2-Dichloroethene	3.17	96	40	Below Cal	#	1
31) Cyclohexane	5.66	56	5560	0.991	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	19388	4.664	ug/l #	51
38) Carbon Tetrachloride	5.66	117	22557	6.502	ug/l #	16
49) 1,4-Dioxane	7.86	88	22	0.257	ug/l #	1
76) 1,2,3-Trichloropropane	11.13	75	85577	20.290	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.13	75	85577	64.986	ug/l #	9

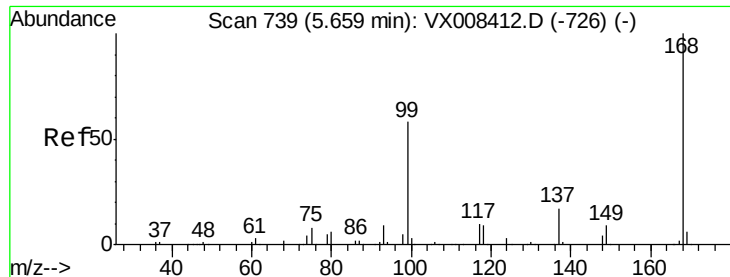
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX008532.D

Acq: 28 Mar 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

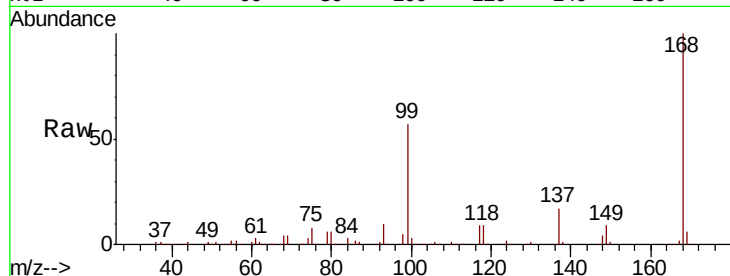
SUMP-PIT-2

Tot Ion:168 Resp: 230869

Ion Ratio Lower Upper

168 100

99 57.4 46.0 69.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

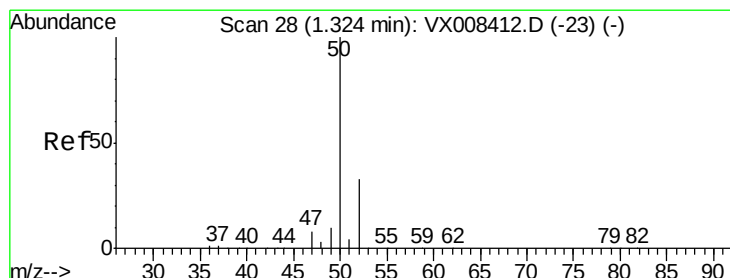
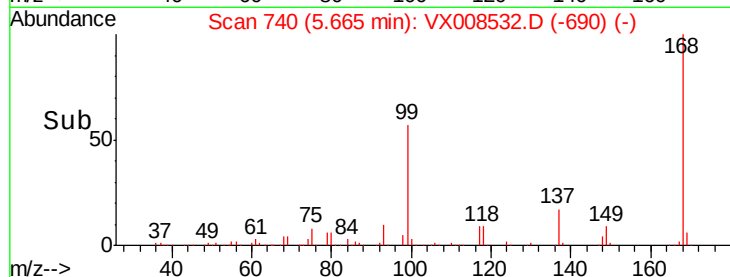
60000

40000

20000

0

Time--> 5.50 5.60 5.70 5.80



#3

Chloromethane

Concen: Below Cal

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008532.D

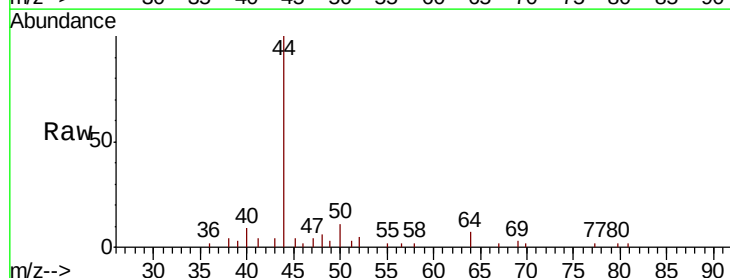
Acq: 28 Mar 2019 20:06

Tgt Ion: 50 Resp: 642

Ion Ratio Lower Upper

50 100

52 47.0 26.2 39.2#



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0

1.32

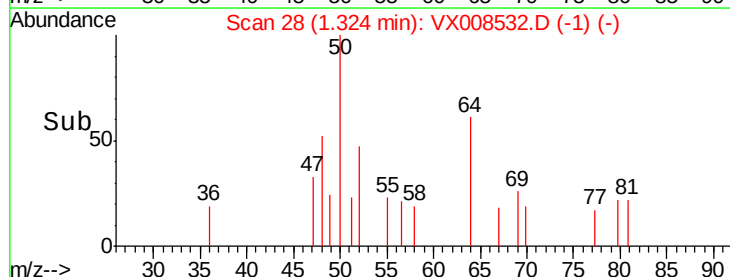
300

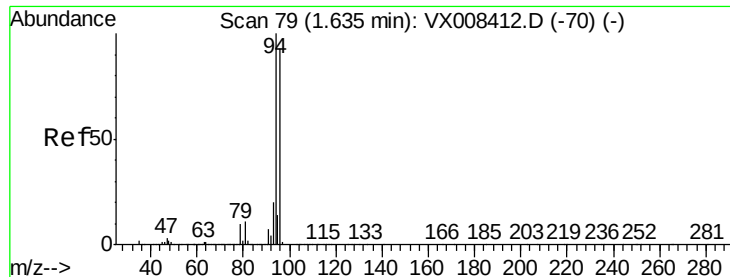
200

100

0

Time--> 1.20 1.25 1.30 1.35





#5

Bromomethane

Concen: 1.924 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.01 min

Lab File: VX008532.D

Acq: 28 Mar 2019 20:06

Instrument :

MSVOA_X

ClientSampled :

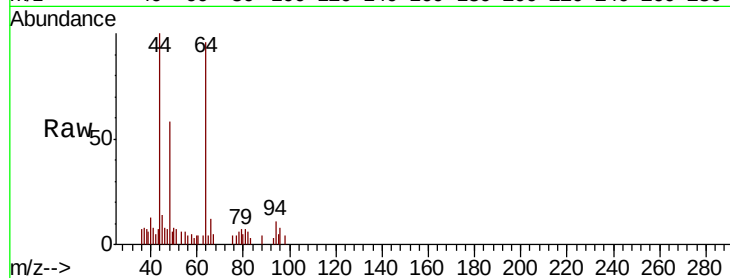
SUMP-PIT-2

Tot Ion: 94 Resp: 240

Ion Ratio Lower Upper

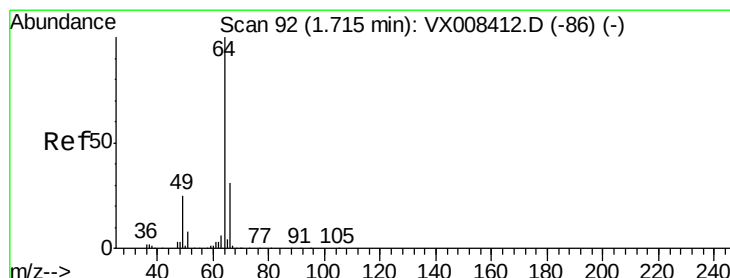
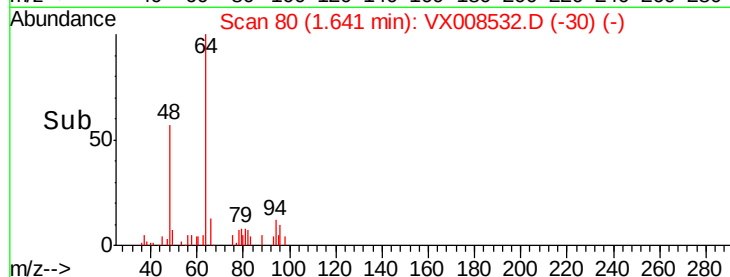
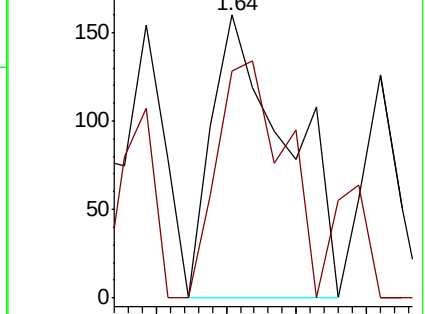
94 100

96 80.0 74.8 112.2



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 2.740 ug/l

RT: 1.60 min Scan# 74

Delta R.T. -0.11 min

Lab File: VX008532.D

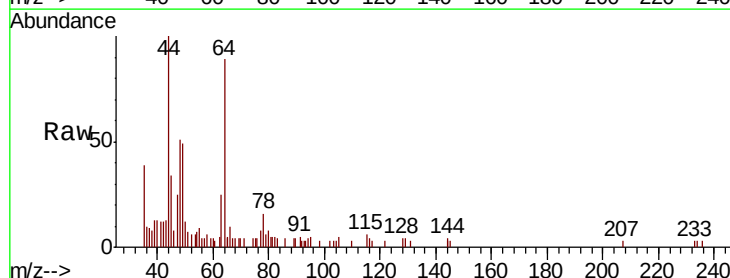
Acq: 28 Mar 2019 20:06

Tgt Ion: 64 Resp: 6167

Ion Ratio Lower Upper

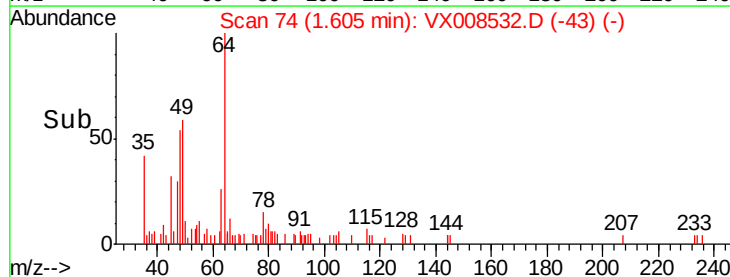
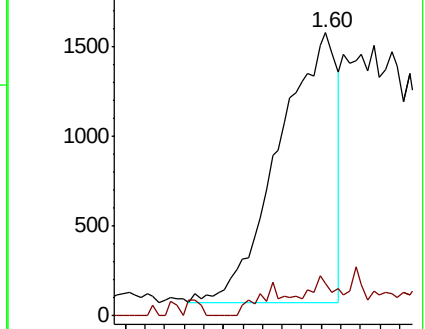
64 100

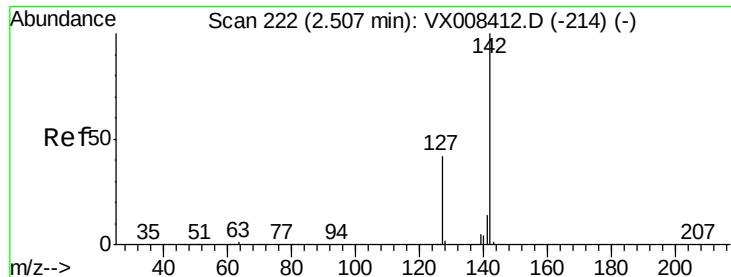
66 6.1 25.1 37.7#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#10

Methvl Iodide

Concen: 4.195 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX008532.D

Acq: 28 Mar 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

SUMP-PIT-2

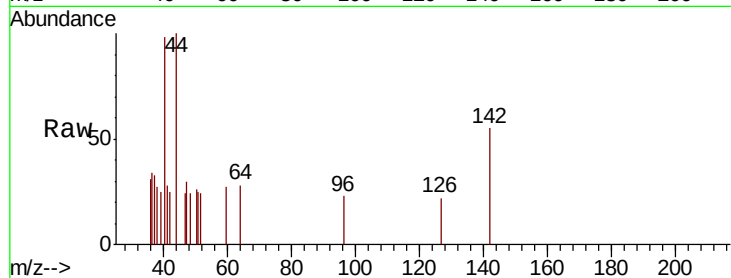
Tot Ion:142 Resp: 182

Ion Ratio Lower Upper

142 100

127 53.3 33.6 50.4#

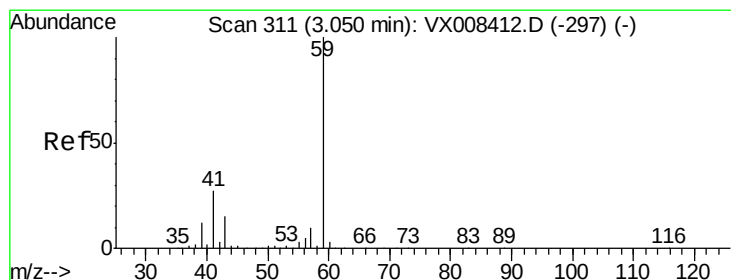
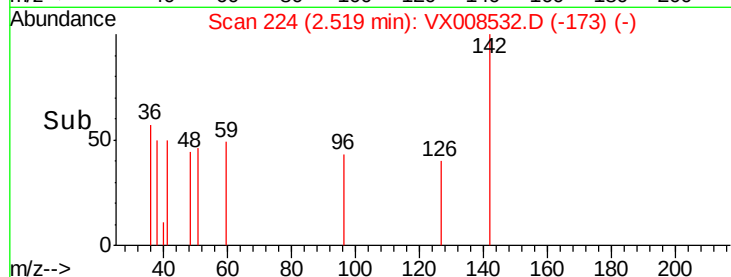
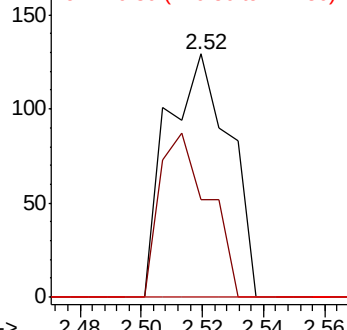
141 0.0 11.3 16.9#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



#11

Tert butyl alcohol

Concen: 1.985 ug/l

RT: 3.03 min Scan# 308

Delta R.T. -0.02 min

Lab File: VX008532.D

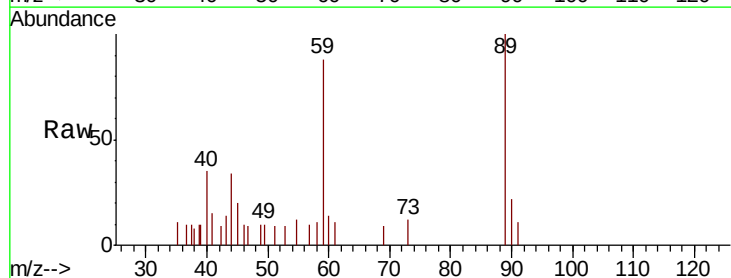
Acq: 28 Mar 2019 20:06

Tgt Ion: 59 Resp: 1539

Ion Ratio Lower Upper

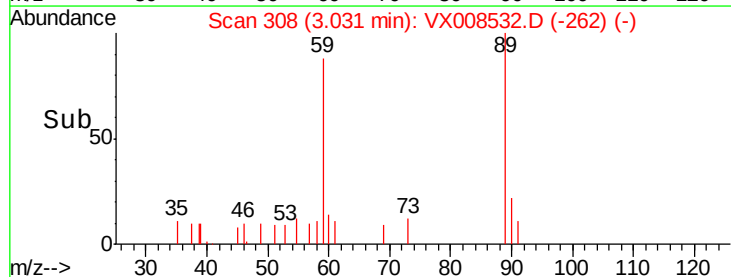
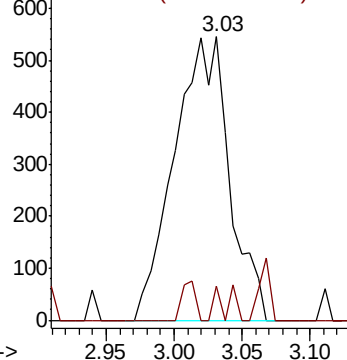
59 100

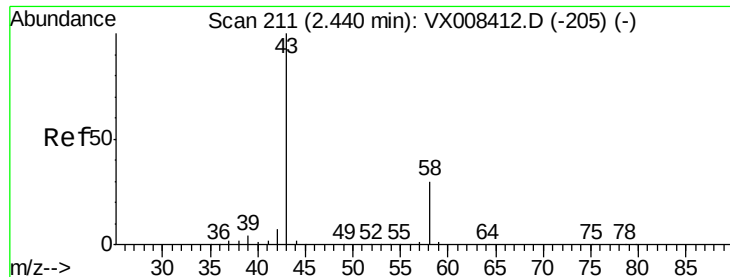
57 3.2 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0





#16

Acetone

Concen: 0.898 ug/l

RT: 2.44 min Scan# 211

Delta R.T. 0.00 min

Lab File: VX008532.D

Acq: 28 Mar 2019 20:06

Instrument :

MSVOA_X

ClientSampled :

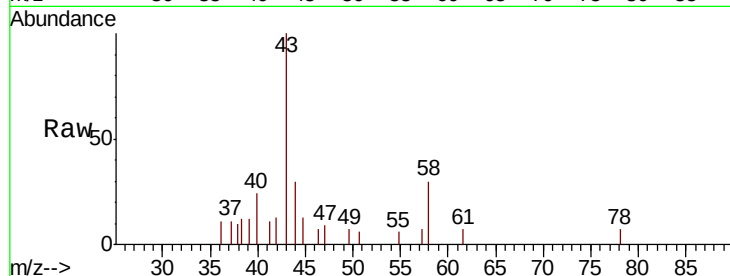
SUMP-PIT-2

Tot Ion: 43 Resp: 1642

Ion Ratio Lower Upper

43 100

58 30.2 24.2 36.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

2.44

800

600

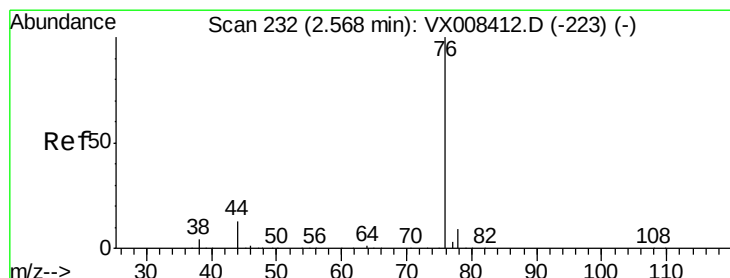
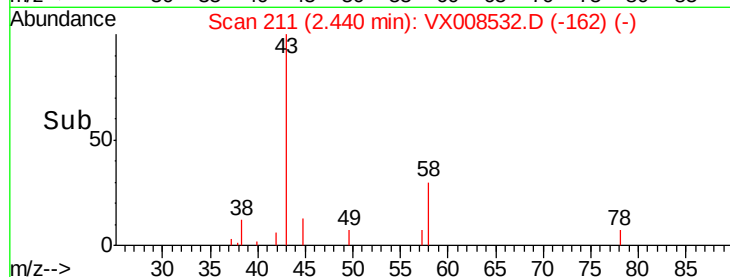
400

200

0

2.40 2.45 2.50

Time-->



#17

Carbon Disulfide

Concen: Below Cal

RT: 2.57 min Scan# 232

Delta R.T. 0.00 min

Lab File: VX008532.D

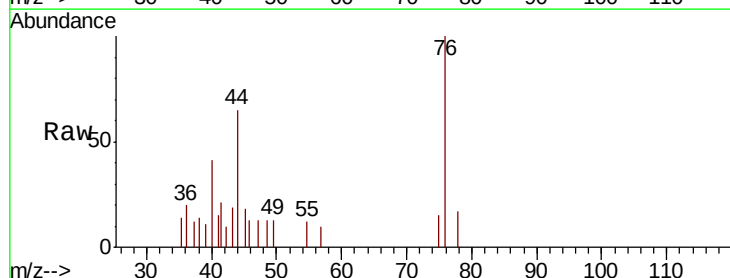
Acq: 28 Mar 2019 20:06

Tgt Ion: 76 Resp: 872

Ion Ratio Lower Upper

76 100

78 16.6 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

2.57

600

500

400

300

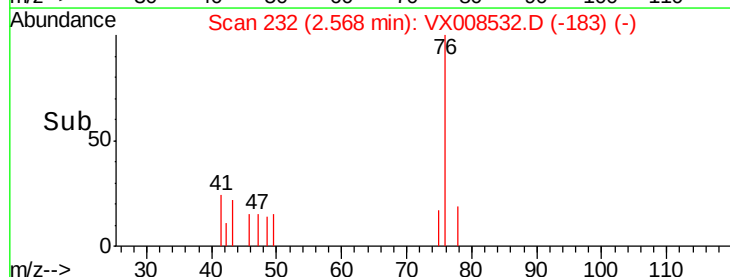
200

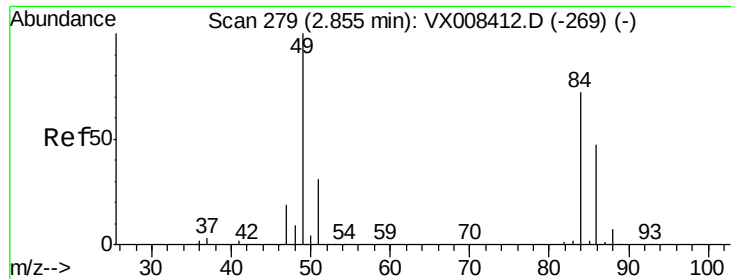
100

0

2.50 2.55 2.60

Time-->

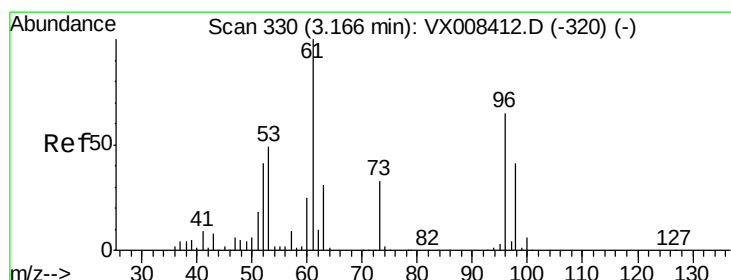
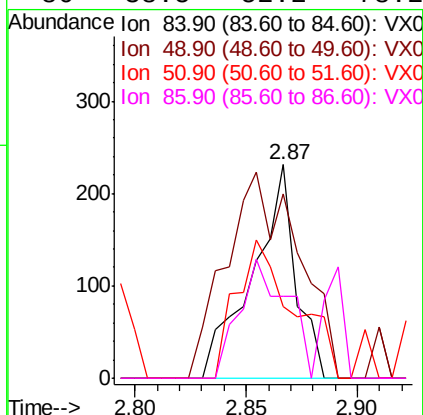
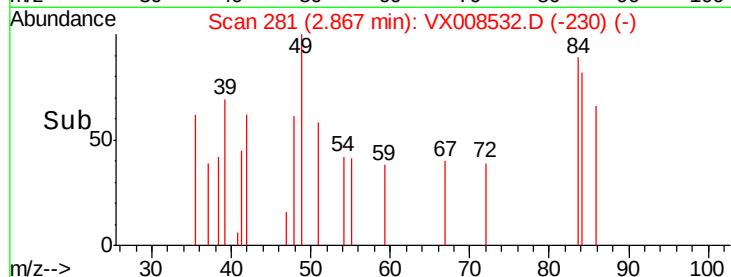
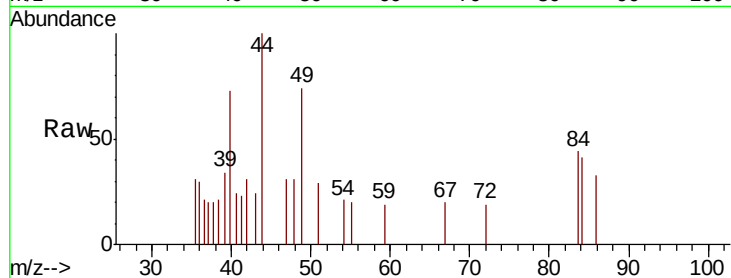




#20
Methylene Chloride
Concen: Below Cal
RT: 2.87 min Scan# 281
Delta R.T. 0.01 min
Lab File: VX008532.D
Acq: 28 Mar 2019 20:06

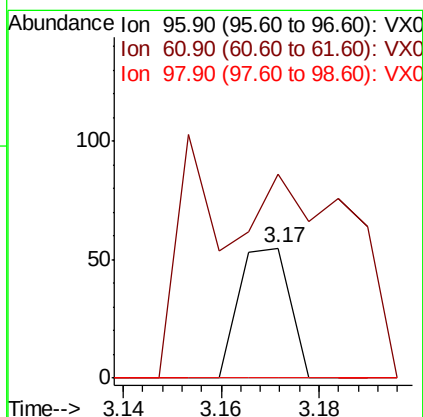
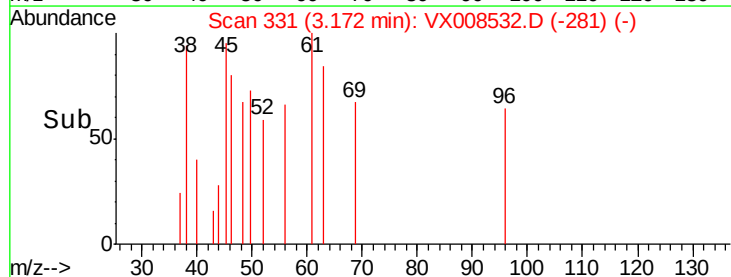
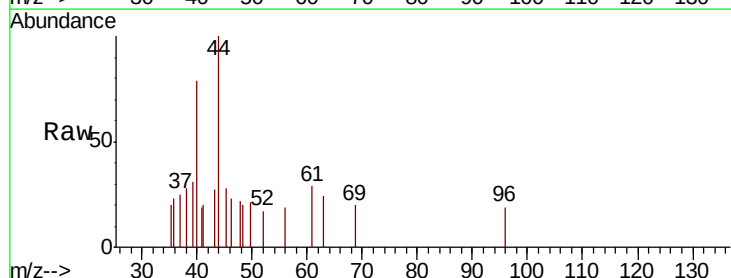
Instrument :
MSVOA_X
ClientSampled :
SUMP-PIT-2

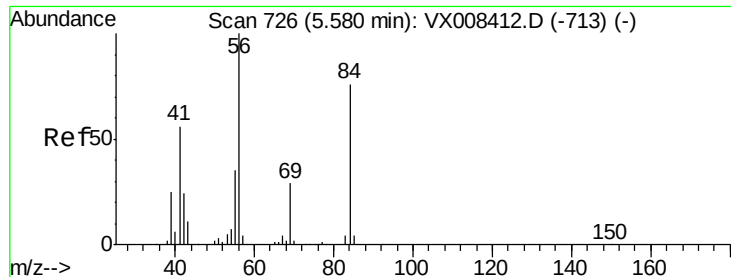
Tot Ion: 84 Resp: 311
Ion Ratio Lower Upper
84 100
49 86.6 110.6 165.8#
51 33.8 33.9 50.9#
86 38.5 52.2 78.2#



#21
trans-1,2-Dichloroethene
Concen: Below Cal
RT: 3.17 min Scan# 331
Delta R.T. 0.01 min
Lab File: VX008532.D
Acq: 28 Mar 2019 20:06

Tgt Ion: 96 Resp: 40
Ion Ratio Lower Upper
96 100
61 0.0 122.6 184.0#
98 0.0 50.9 76.3#

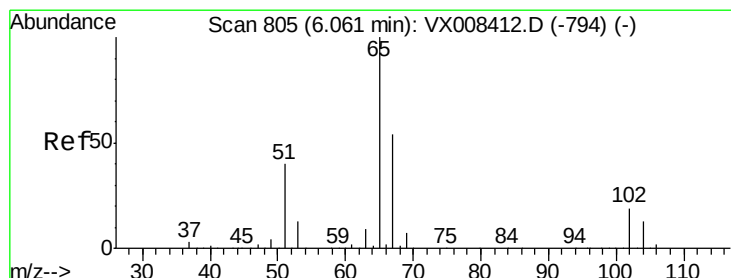
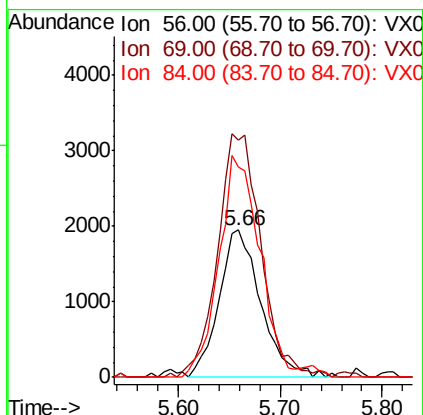
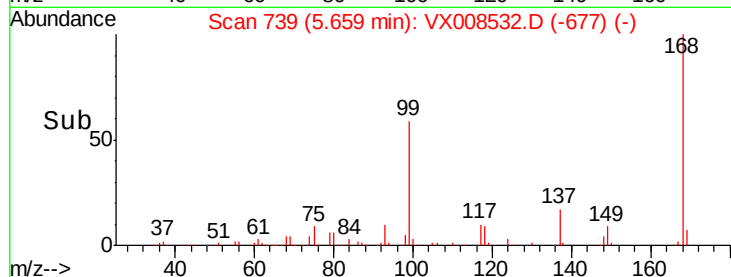
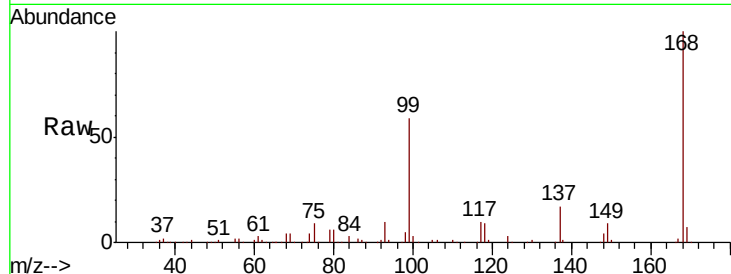




#31
Cyclohexane
Concen: 0.991 ug/l
RT: 5.66 min Scan# 739
Delta R.T. 0.08 min
Lab File: VX008532.D
Acq: 28 Mar 2019 20:06

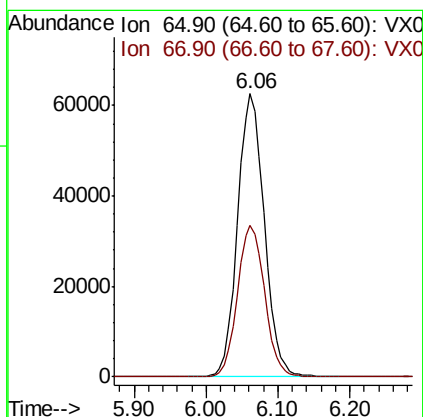
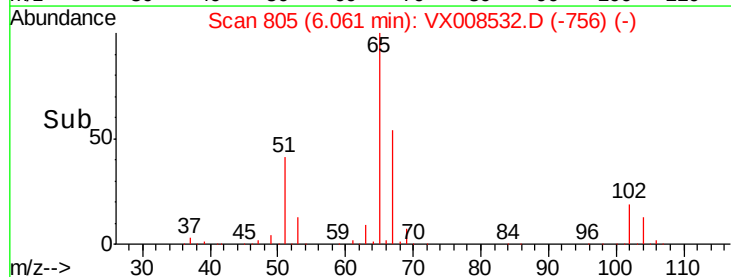
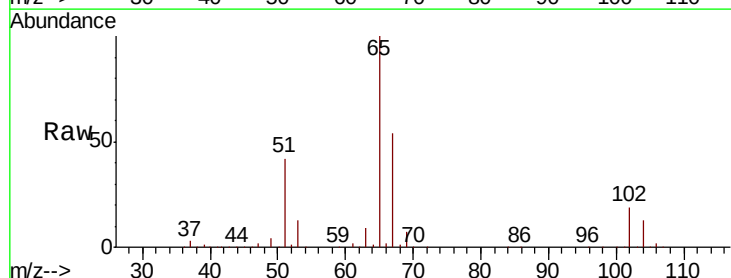
Instrument :
MSVOA_X
ClientSampleId :
SUMP-PIT-2

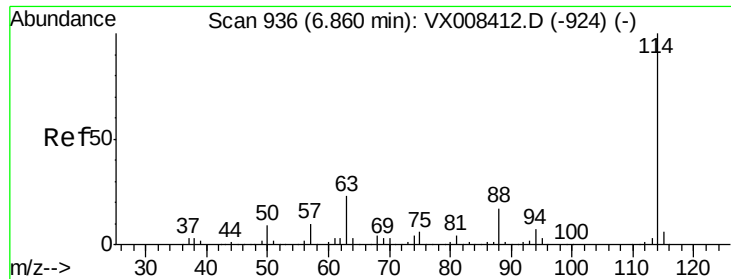
Tot Ion: 56 Resp: 5560
Ion Ratio Lower Upper
56 100
69 158.0 23.2 34.8#
84 142.8 60.7 91.1#



#33
1,2-Dichloroethane-d4
Concen: 46.175 ug/l
RT: 6.06 min Scan# 805
Delta R.T. 0.00 min
Lab File: VX008532.D
Acq: 28 Mar 2019 20:06

Tgt Ion: 65 Resp: 161613
Ion Ratio Lower Upper
65 100
67 54.4 0.0 109.4

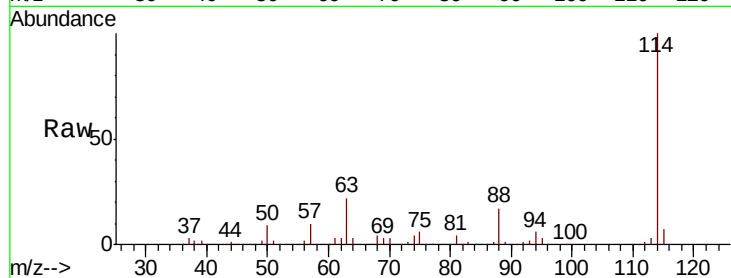




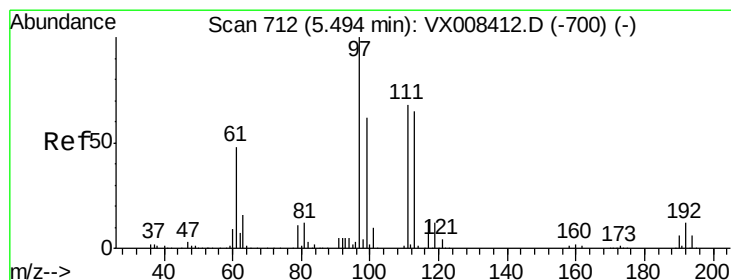
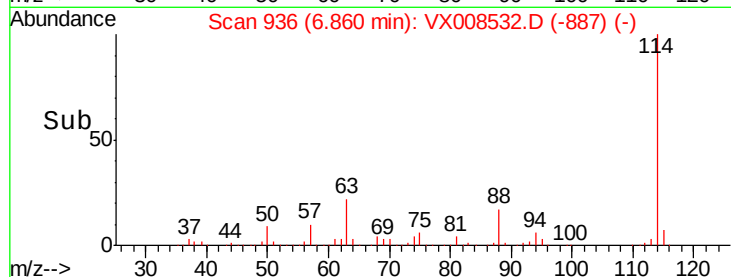
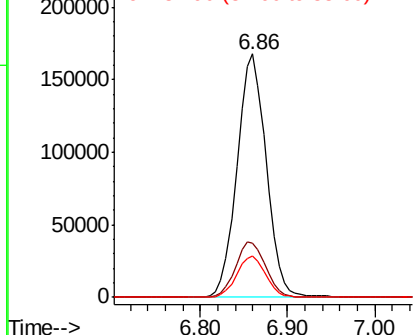
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008532.D
 Acq: 28 Mar 2019 20:06

Instrument :
 MSVOA_X
 ClientSampleId :
 SUMP-PIT-2

Tot Ion:114 Resp: 389891
 Ion Ratio Lower Upper
 114 100
 63 22.1 0.0 46.4
 88 16.8 0.0 33.2

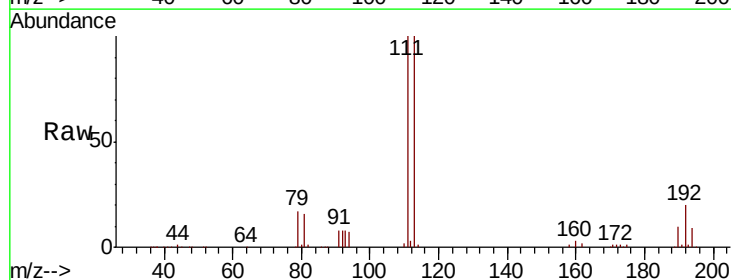


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

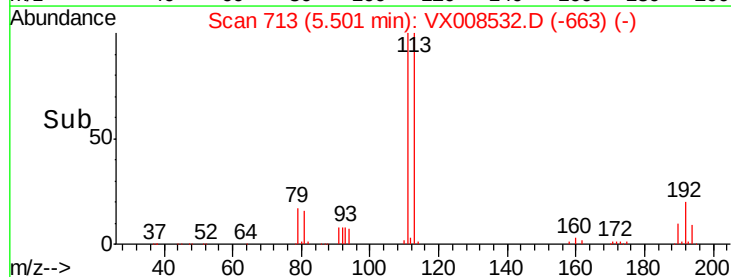
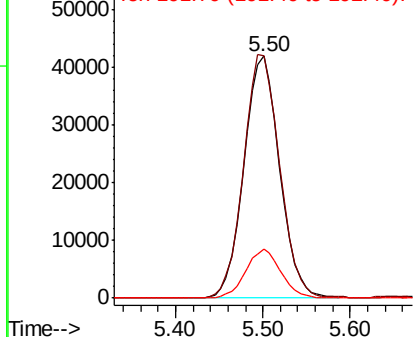


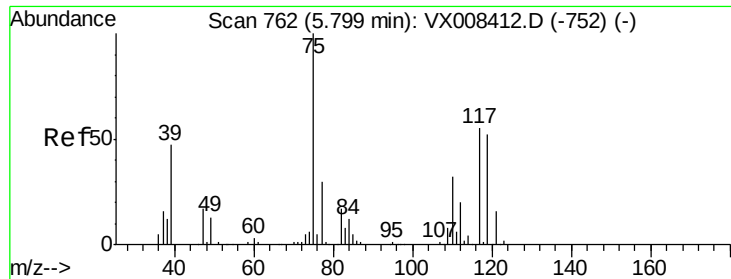
#35
 Dibromofluoromethane
 Concen: 46.708 ug/l
 RT: 5.50 min Scan# 713
 Delta R.T. 0.01 min
 Lab File: VX008532.D
 Acq: 28 Mar 2019 20:06

Tgt Ion:113 Resp: 118745
 Ion Ratio Lower Upper
 113 100
 111 102.0 83.0 124.4
 192 19.9 15.6 23.4



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

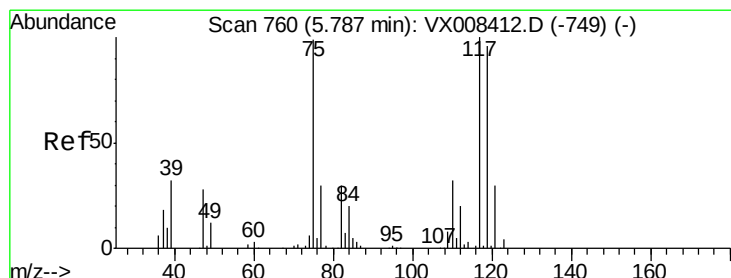
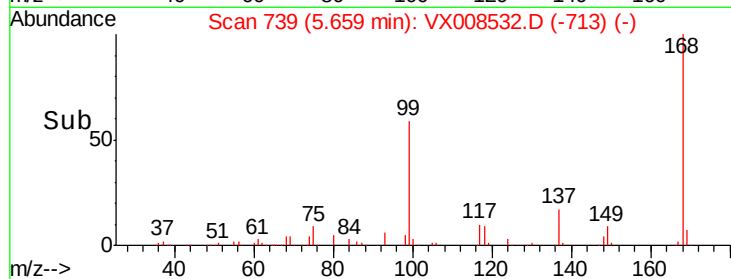
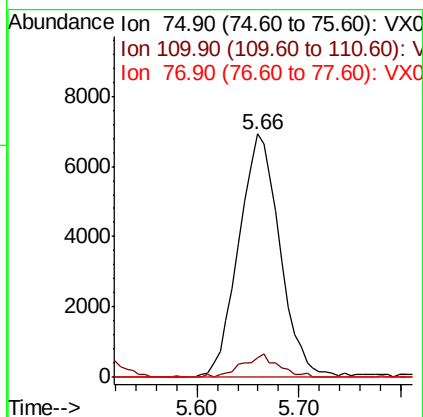
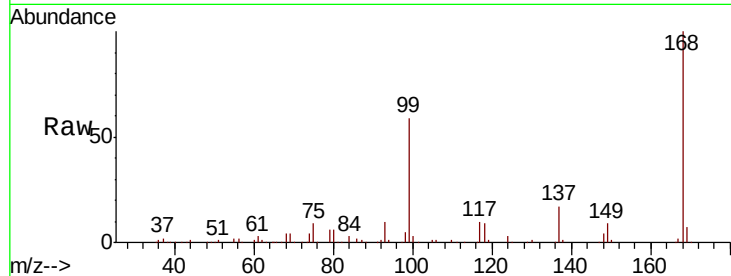




#36
 1,1-Dichloropropene
 Concen: 4.664 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.14 min
 Lab File: VX008532.D
 Acq: 28 Mar 2019 20:06

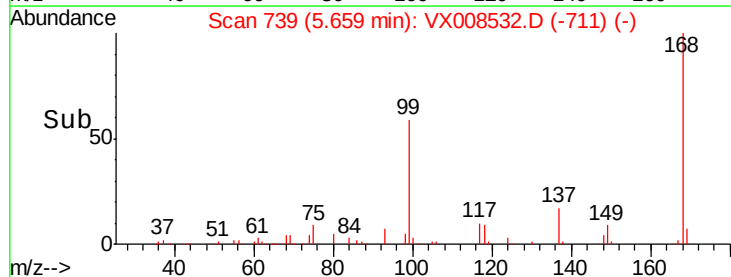
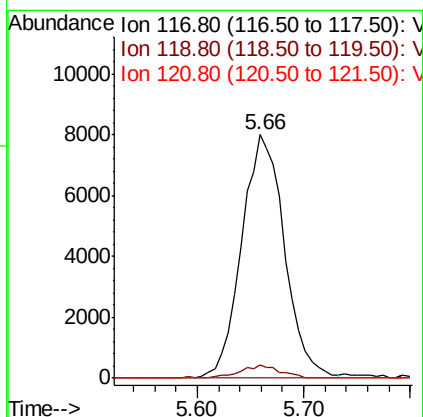
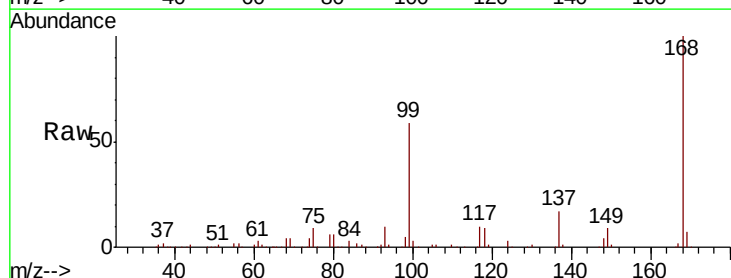
Instrument :
 MSVOA_X
 ClientSampleId :
 SUMP-PIT-2

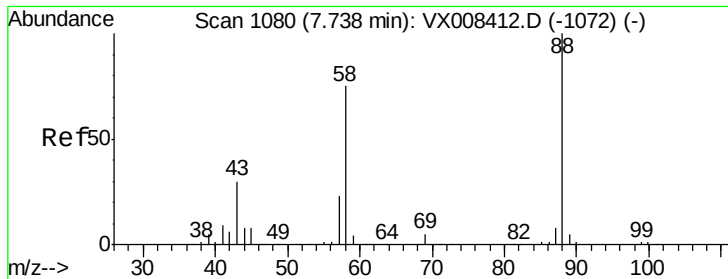
Tot Ion	75	Resp	19388
Ion Ratio	Lower	Upper	
75	100		
110	8.6	16.6	49.7#
77	0.0	24.2	36.2#



#38
 Carbon Tetrachloride
 Concen: 6.502 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX008532.D
 Acq: 28 Mar 2019 20:06

Tgt Ion	117	Resp	22557
Ion Ratio	Lower	Upper	
117	100		
119	5.2	76.7	115.1#
121	0.0	24.3	36.5#





#49

1,4-Dioxane

Concen: 0.257 ug/l

RT: 7.86 min Scan# 1100

Delta R.T. 0.12 min

Lab File: VX008532.D

Acq: 28 Mar 2019 20:06

Instrument :

MSVOA_X

ClientSampled :

SUMP-PIT-2

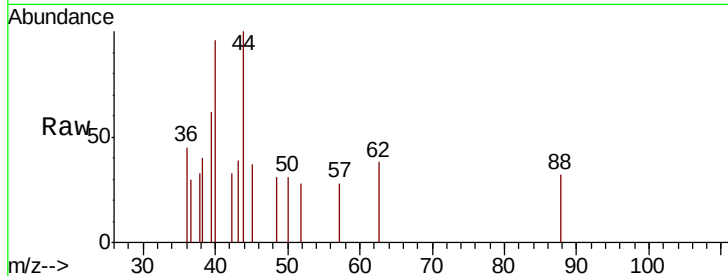
Tot Ion: 88 Resp: 22

Ion Ratio Lower Upper

88 100

43 236.4 28.6 43.0#

58 86.4 63.0 94.4



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

250

200

150

100

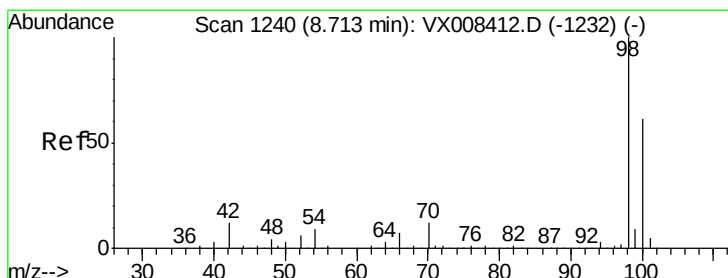
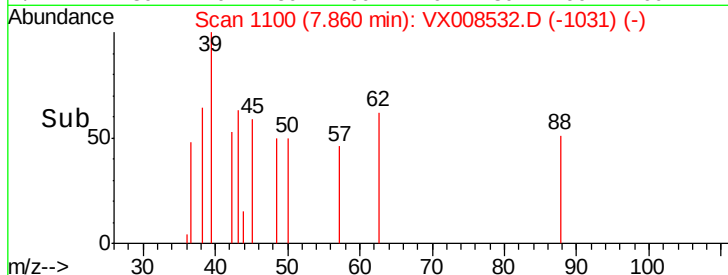
50

0

7.84 7.85 7.86 7.87 7.88

7.86

Time-->



#50

Toluene-d8

Concen: 48.480 ug/l

RT: 8.71 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VX008532.D

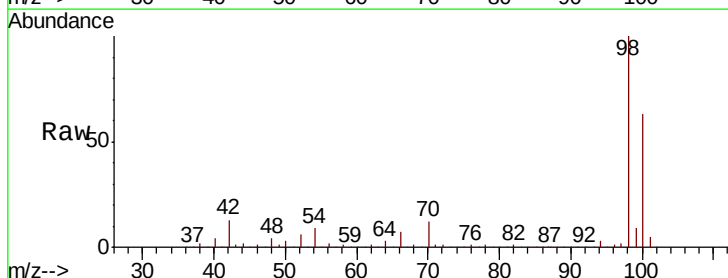
Acq: 28 Mar 2019 20:06

Tgt Ion: 98 Resp: 492825

Ion Ratio Lower Upper

98 100

100 63.7 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0

300000

200000

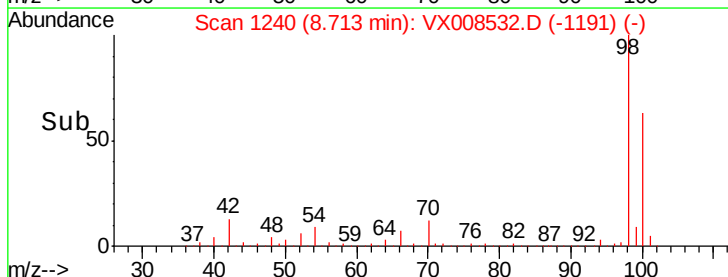
100000

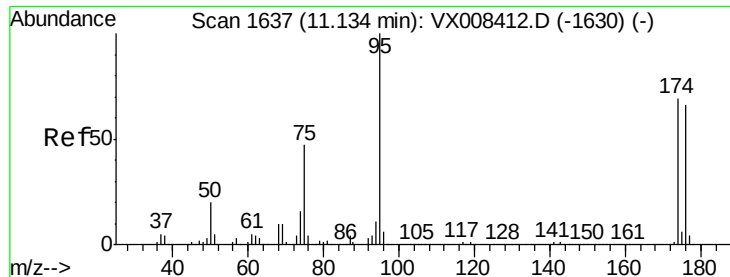
0

8.60 8.70 8.80 8.90

8.71

Time-->





#62

4-Bromofluorobenzene

Concen: 44.589 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008532.D

Acq: 28 Mar 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

SUMP-PIT-2

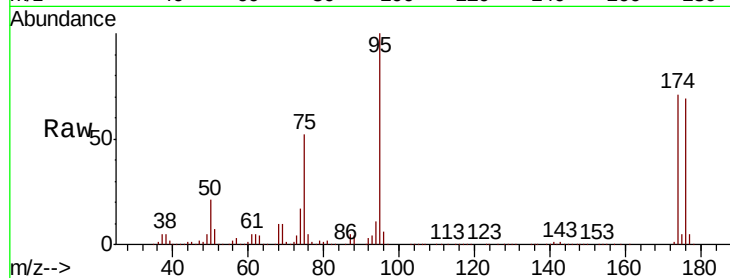
Tot Ion: 95 Resp: 167963

Ion Ratio Lower Upper

95 100

174 74.4 0.0 147.2

176 72.5 0.0 142.4

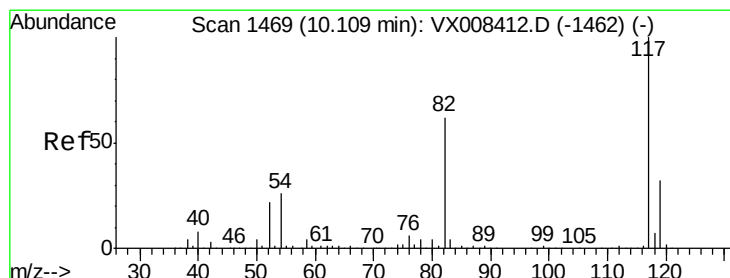
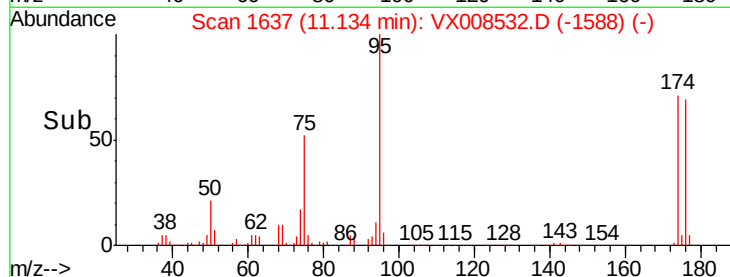


Abundance Ion 94.90 (94.60 to 95.60): VX008412.D (-1630) (-)

Ion 173.80 (173.50 to 174.50): VX008412.D (-1630) (-)

Ion 175.80 (175.50 to 176.50): VX008412.D (-1630) (-)

Time-->



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.11 min Scan# 1469

Delta R.T. 0.00 min

Lab File: VX008532.D

Acq: 28 Mar 2019 20:06

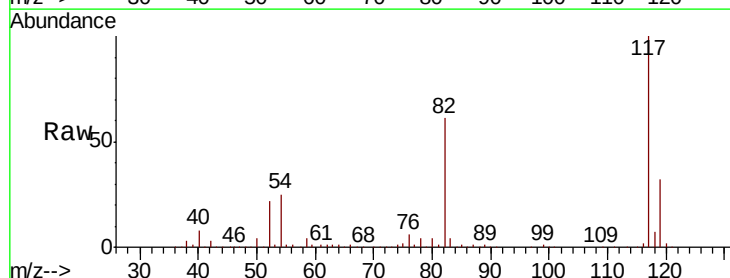
Tgt Ion: 117 Resp: 340497

Ion Ratio Lower Upper

117 100

82 60.9 49.4 74.2

119 31.9 25.4 38.0

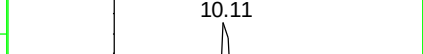
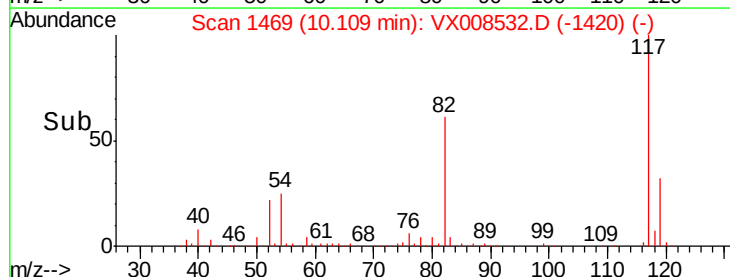


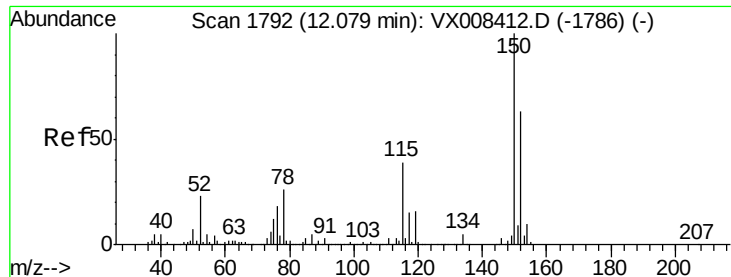
Abundance Ion 116.90 (116.60 to 117.60): VX008412.D (-1462) (-)

Ion 82.00 (81.70 to 82.70): VX008412.D (-1462) (-)

Ion 118.90 (118.60 to 119.60): VX008412.D (-1462) (-)

Time-->

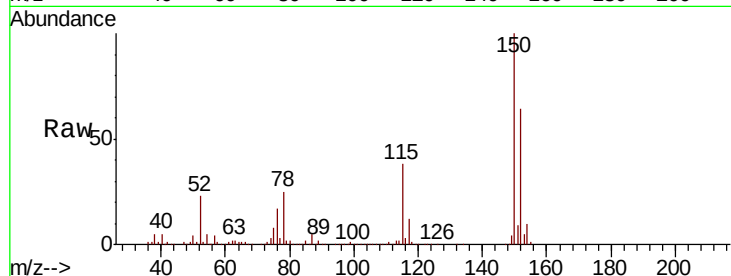




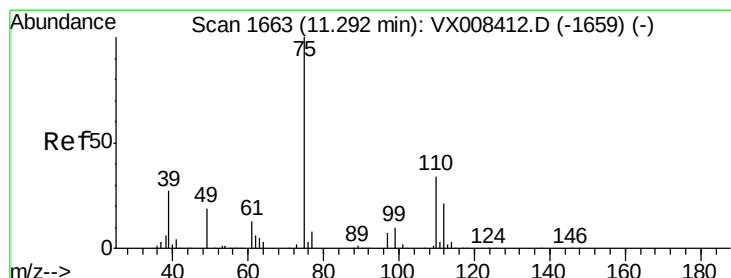
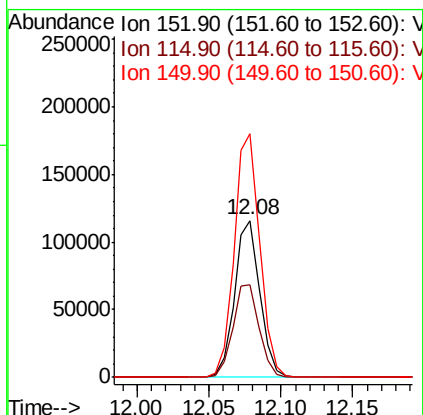
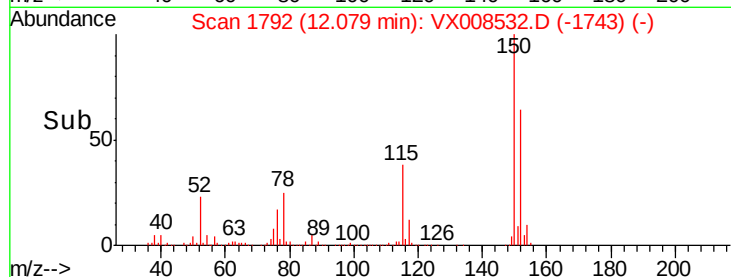
#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.08 min Scan# 1792
 Delta R.T. 0.00 min
 Lab File: VX008532.D
 Acq: 28 Mar 2019 20:06

Instrument :
 MSVOA_X
 ClientSampleId :
 SUMP-PIT-2

Tot Ion:152 Resp: 141871
 Ion Ratio Lower Upper
 152 100
 115 61.7 43.5 130.5
 150 157.6 0.0 348.8

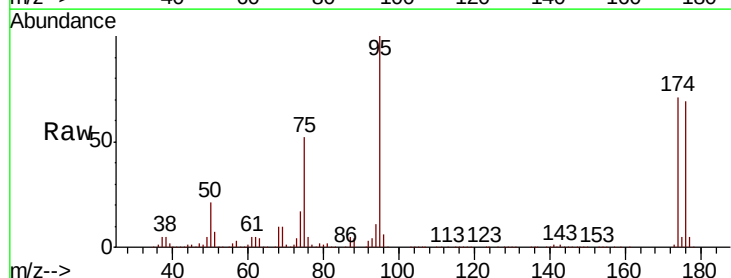


Abundance Ion 151.90 (151.60 to 152.60): V
 Ion 114.90 (114.60 to 115.60): V
 Ion 149.90 (149.60 to 150.60): V

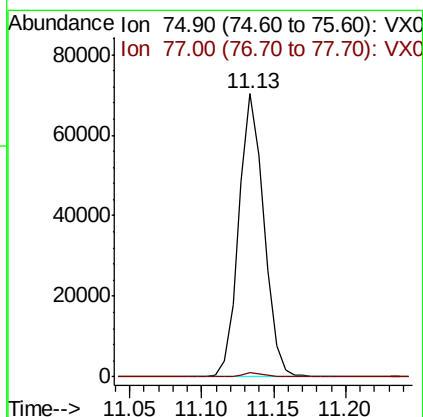
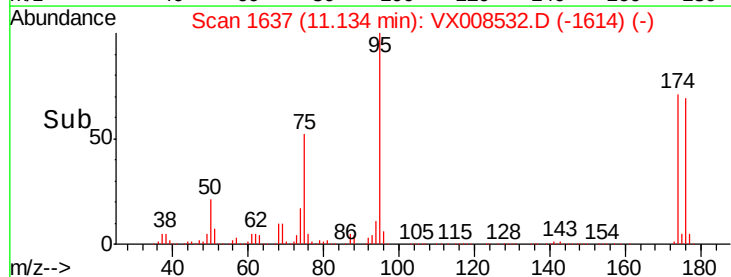


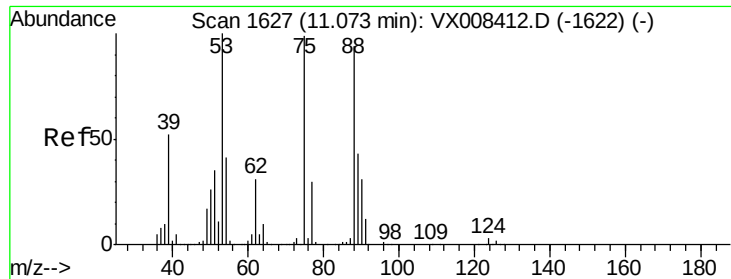
#76
 1,2,3-Trichloropropane
 Concen: 20.290 ug/l
 RT: 11.13 min Scan# 1637
 Delta R.T. -0.16 min
 Lab File: VX008532.D
 Acq: 28 Mar 2019 20:06

Tgt Ion: 75 Resp: 85577
 Ion Ratio Lower Upper
 75 100
 77 1.4 21.9 65.7#



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: 64.986 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX008532.D

Acq: 28 Mar 2019 20:06

Instrument :

MSVOA_X

ClientSampleId :

SUMP-PIT-2

Tot Ion: 75 Resp: 85577

Ion Ratio Lower Upper

75 100

53 0.0 82.1 123.1#

89 0.0 34.6 52.0#

