

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102618\
 Data File : VX005644.D
 Acq On : 27 Oct 2018 09:34
 Operator : JC/MD
 Sample : J5204-14
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 49 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SU-01-102518-A

Quant Time: Oct 29 00:53:26 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 25 02:52:45 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	229048	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	362570	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	302367	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	177469	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	143372	51.28	ug/l	0.00
Spiked Amount			Recovery	=	102.56%	
35) Dibromofluoromethane	5.49	113	119924	48.85	ug/l	0.00
Spiked Amount			Recovery	=	97.70%	
50) Toluene-d8	8.71	98	397152	45.02	ug/l	0.00
Spiked Amount			Recovery	=	90.04%	
62) 4-Bromofluorobenzene	11.13	95	156823	47.07	ug/l	0.00
Spiked Amount			Recovery	=	94.14%	

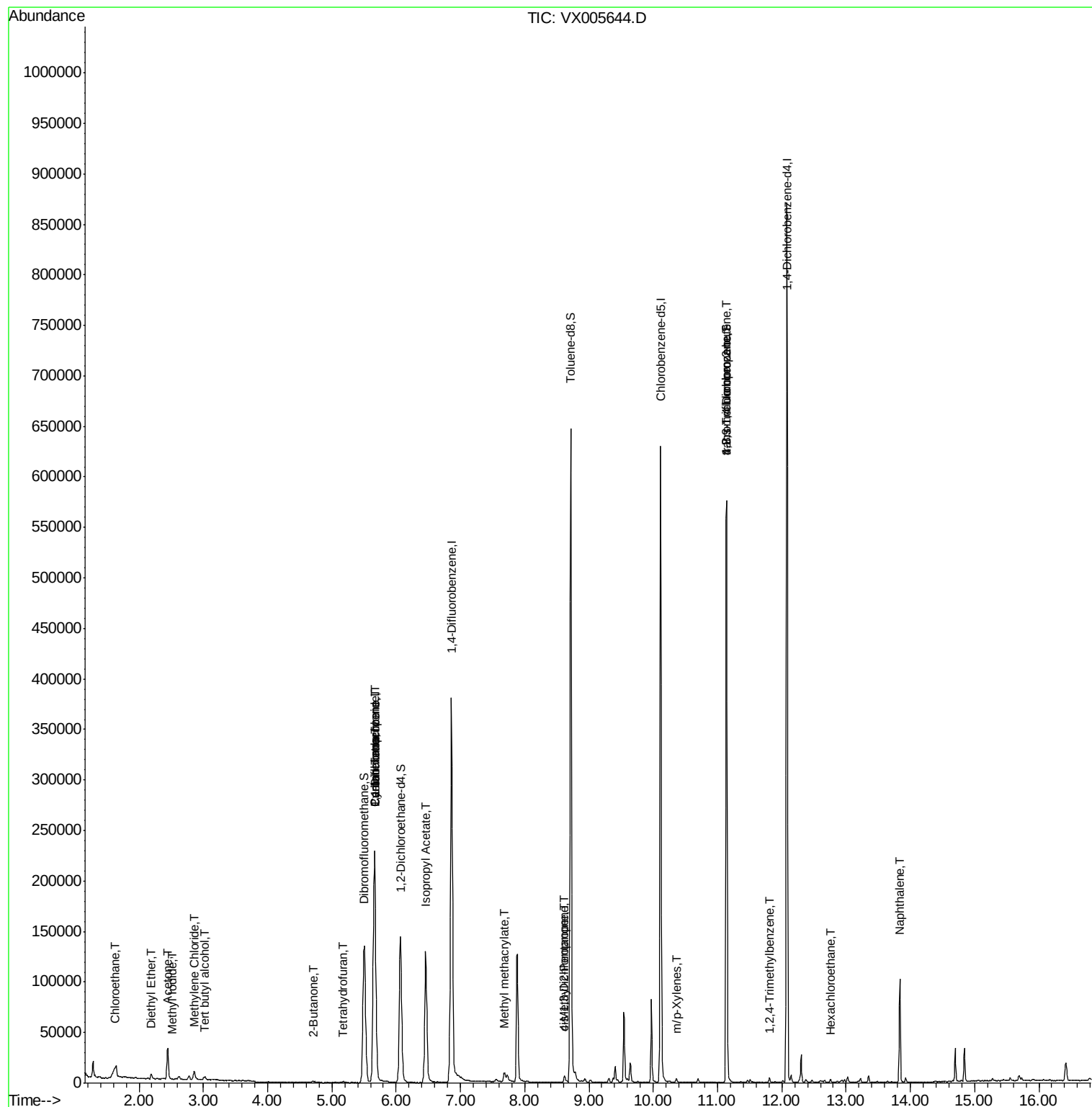
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.62	64	4938	2.730	ug/l #	59
8) Diethyl Ether	2.19	74	1598	1.018	ug/l	92
10) Methyl Iodide	2.52	142	40	2.741	ug/l #	77
11) Tert butyl alcohol	3.01	59	2238	2.975	ug/l #	84
16) Acetone	2.45	43	31990	21.652	ug/l	99
18) Methyl Acetate	2.78	43	4497	Below Cal		94
20) Methylene Chloride	2.86	84	3671	1.484	ug/l	93
25) 2-Butanone	4.71	43	2770	1.231	ug/l #	78
29) Tetrahydrofuran	5.16	42	470	0.321	ug/l #	48
31) Cyclohexane	5.66	56	4358	1.156	ug/l #	1
36) 1,1-Dichloropropene	5.66	75	16001	4.548	ug/l #	46
38) Carbon Tetrachloride	5.67	117	22194	5.989	ug/l #	16
43) Isopropyl Acetate	6.46	43	160270	23.820	ug/l	99
48) Methyl methacrylate	7.69	41	6333	1.932	ug/l #	24
51) 4-Methyl-2-Pentanone	8.62	43	2112	0.467	ug/l #	50
54) cis-1,3-Dichloropropene	8.62	75	1021	0.258	ug/l #	65
68) m/p-Xylenes	10.36	106	909	0.221	ug/l	93
76) 1,2,3-Trichloropropane	11.14	75	70280	18.691	ug/l #	37
81) trans-1,4-Dichloro-2-buten	11.14	75	70280	61.073	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.80	105	1986	0.211	ug/l	96
90) Hexachloroethane	12.76	117	1006	0.591	ug/l #	2
95) Naphthalene	13.83	128	63600	5.247	ug/l	99

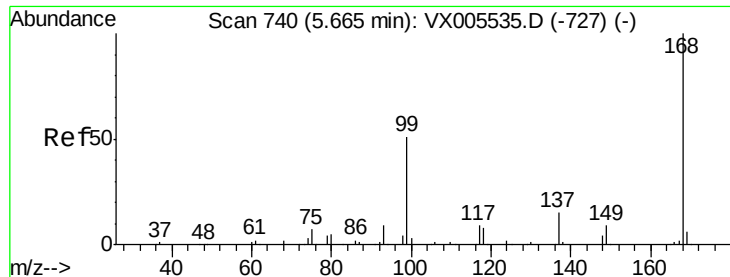
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 29 00:53:26 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 25 02:52:45 2018
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: VX005644.D

Acq: 27 Oct 2018 09:34

Instrument :

MSVOA_X

ClientSampleId :

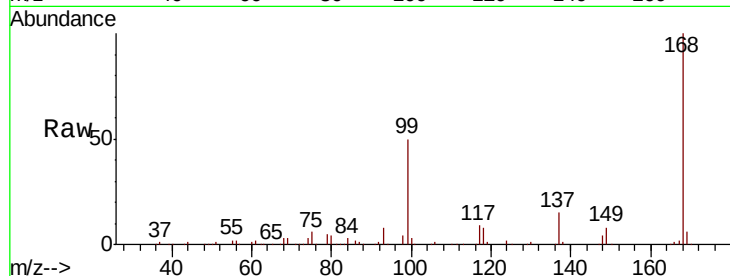
SU-01-102518-A

Tot Ion:168 Resp: 229048

Ion Ratio Lower Upper

168 100

99 50.3 40.7 61.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

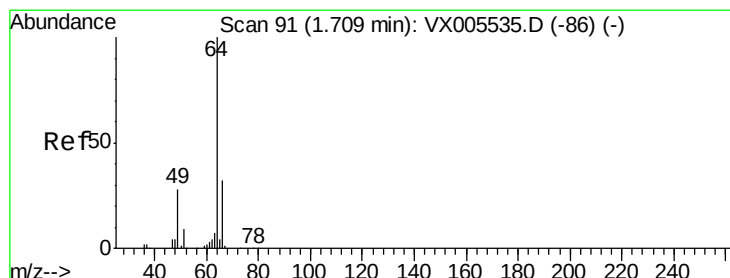
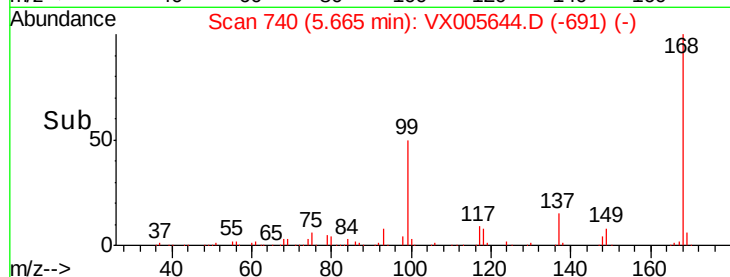
40000

20000

0

5.60 5.70 5.80

Time-->



#6

Chloroethane

Concen: 2.730 ug/l

RT: 1.62 min Scan# 76

Delta R.T. -0.09 min

Lab File: VX005644.D

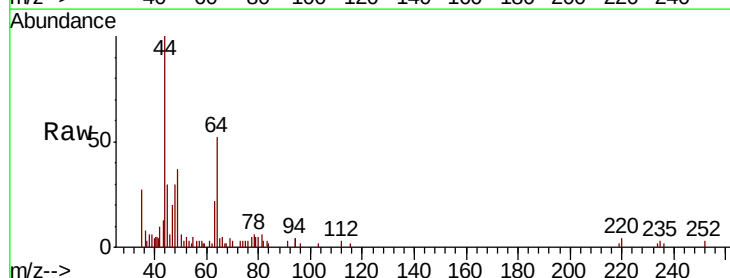
Acq: 27 Oct 2018 09:34

Tgt Ion: 64 Resp: 4938

Ion Ratio Lower Upper

64 100

66 9.5 25.8 38.6#



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.62

1500

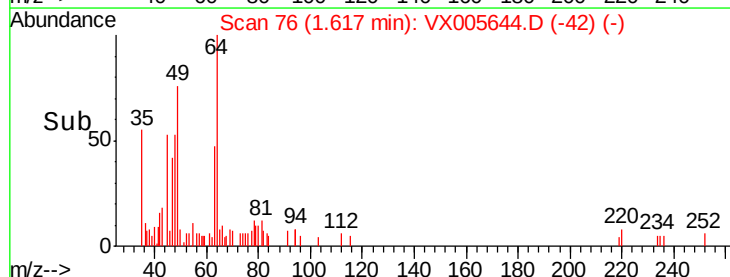
1000

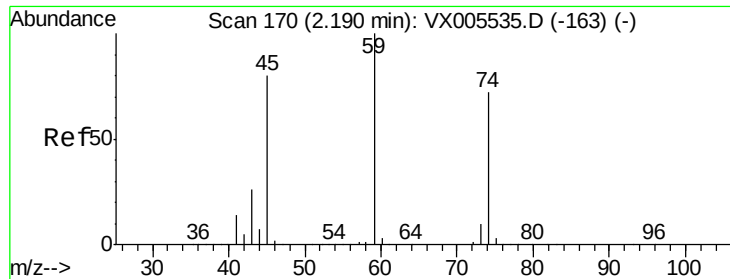
500

0

1.45 1.50 1.55 1.60 1.65

Time-->





#8

Diethyl Ether

Concen: 1.018 ug/l

RT: 2.19 min Scan# 170

Delta R.T. -0.00 min

Lab File: VX005644.D

Acq: 27 Oct 2018 09:34

Instrument :

MSVOA_X

ClientSampleId :

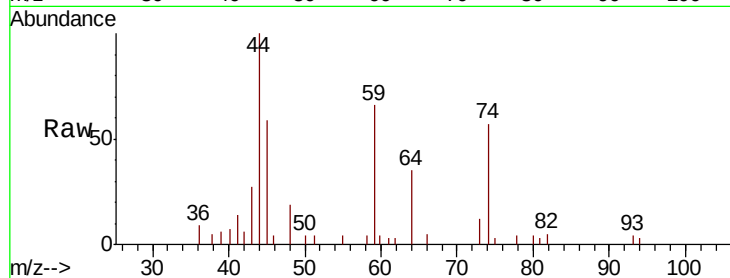
SU-01-102518-A

Tot Ion: 74 Resp: 1598

Ion Ratio Lower Upper

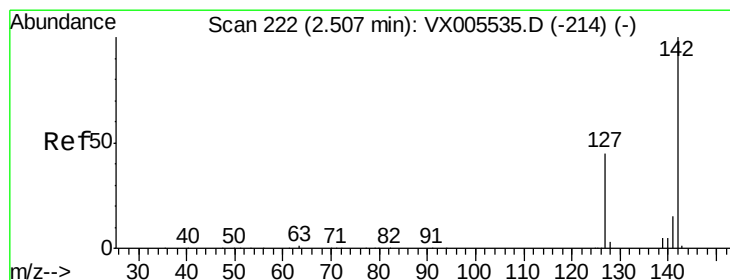
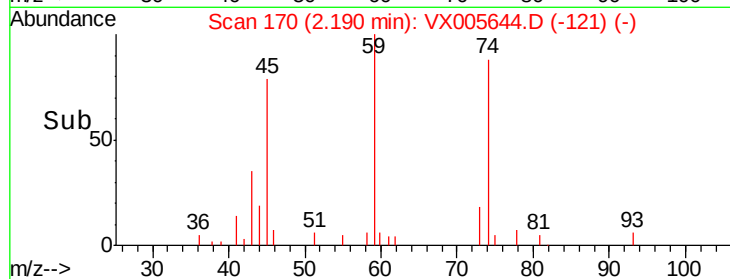
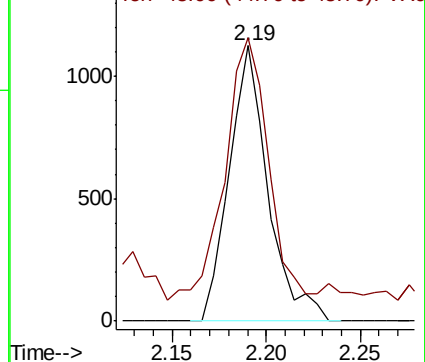
74 100

45 100.3 54.1 162.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



#10

Methyl Iodide

Concen: 2.741 ug/l

RT: 2.52 min Scan# 224

Delta R.T. 0.01 min

Lab File: VX005644.D

Acq: 27 Oct 2018 09:34

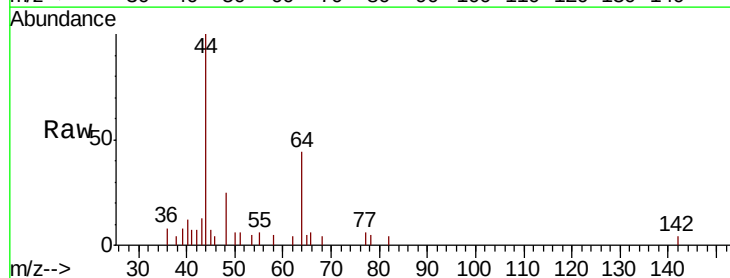
Tgt Ion: 142 Resp: 40

Ion Ratio Lower Upper

142 100

127 57.5 36.0 54.0#

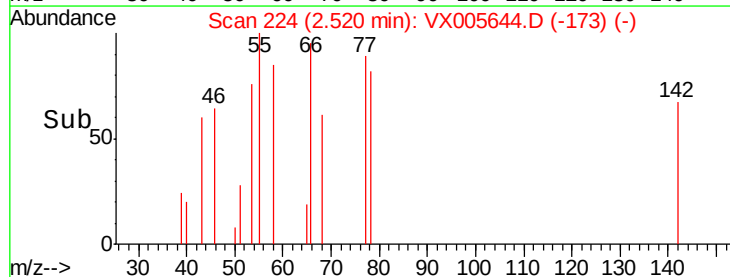
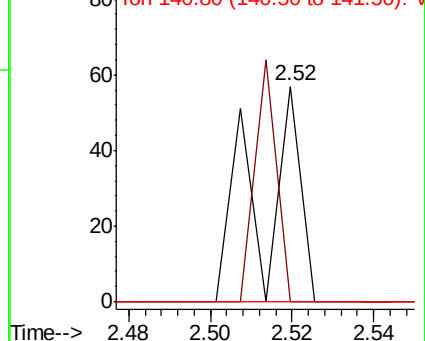
141 0.0 11.7 17.5#

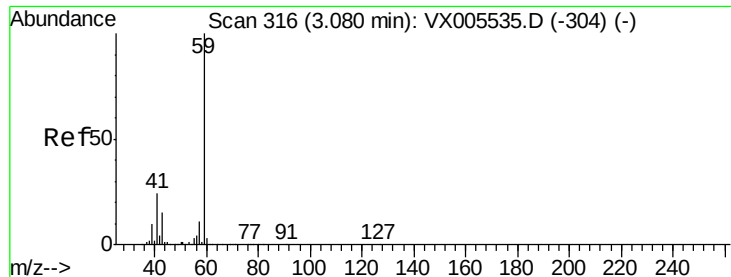


Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V



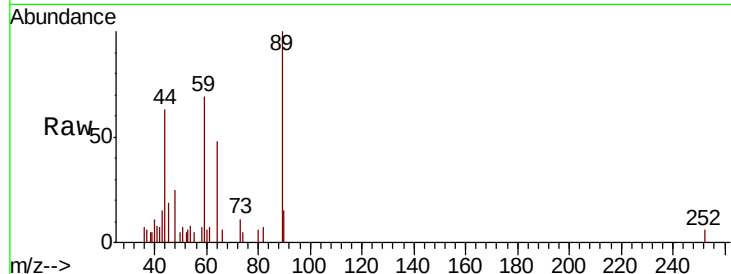


#11

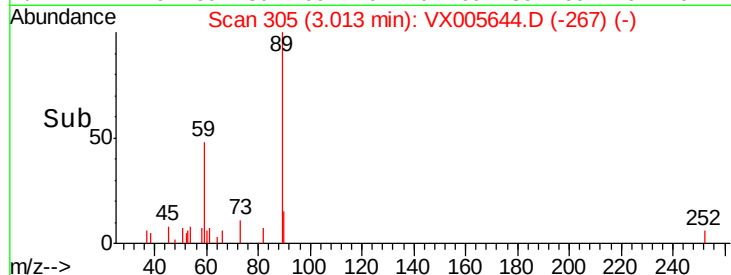
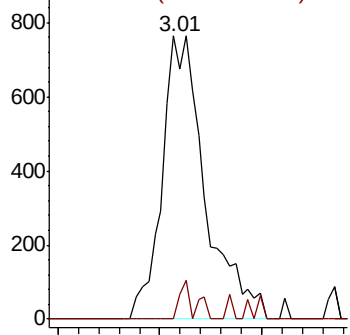
Tert butyl alcohol
 Concen: 2.975 ug/l
 RT: 3.01 min Scan# 305
 Delta R.T. -0.07 min
 Lab File: VX005644.D
 Acq: 27 Oct 2018 09:34

Instrument :
 MSVOA_X
 ClientSampleId :
 SU-01-102518-A

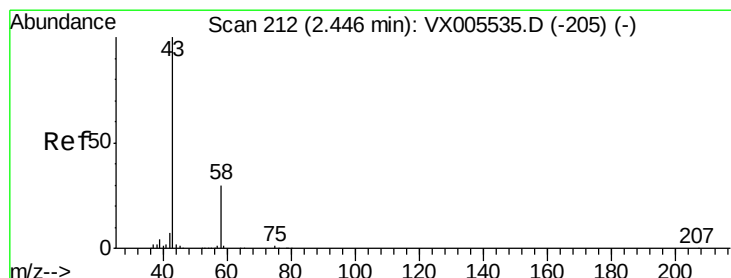
Tot Ion: 59 Resp: 2238
 Ion Ratio Lower Upper
 59 100
 57 4.7 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0
 Ion 57.00 (56.70 to 57.70): VX0



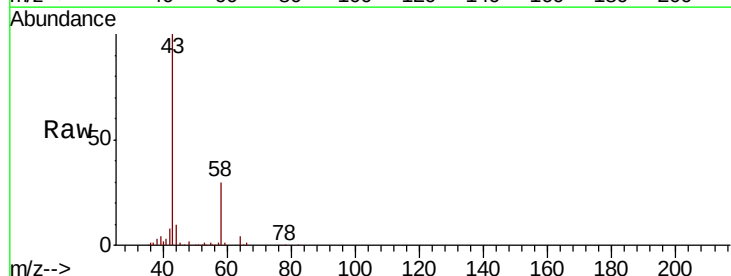
Time-->



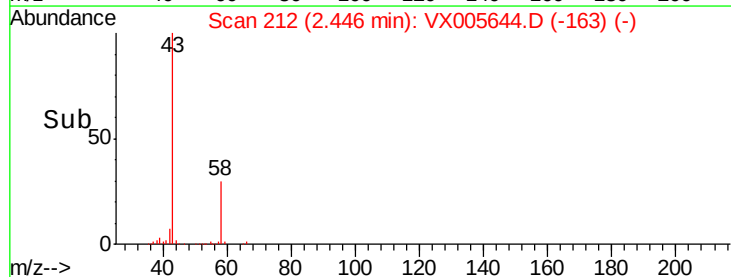
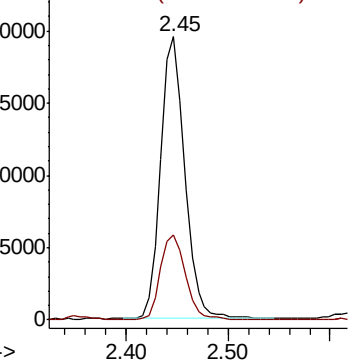
#16

Acetone
 Concen: 21.652 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. 0.00 min
 Lab File: VX005644.D
 Acq: 27 Oct 2018 09:34

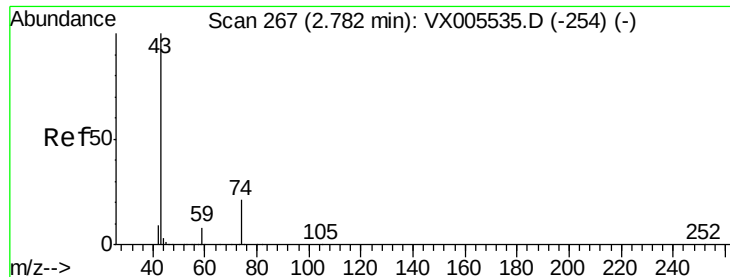
Tgt Ion: 43 Resp: 31990
 Ion Ratio Lower Upper
 43 100
 58 30.1 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 58.00 (57.70 to 58.70): VX0



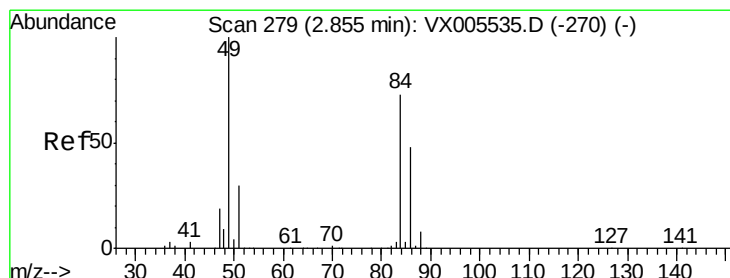
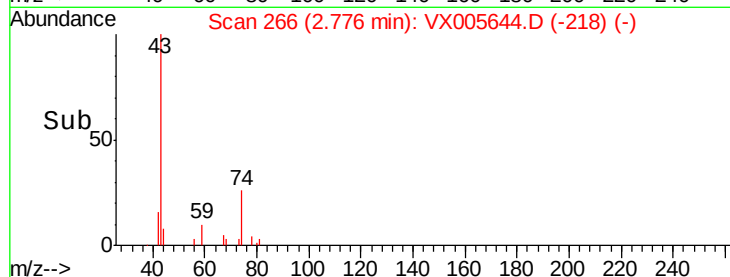
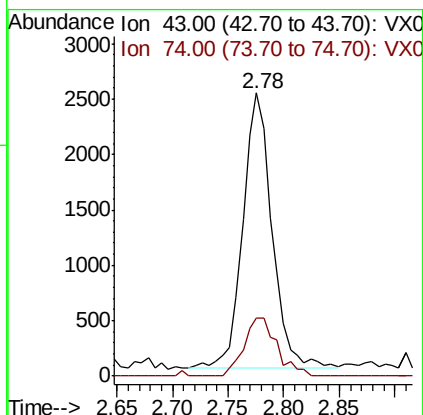
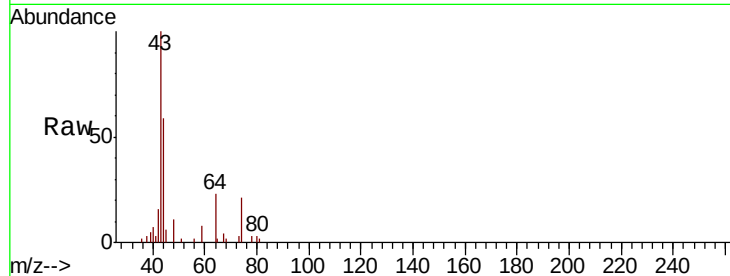
Time-->



#18
Methvl Acetate
Concen: Below Cal
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005644.D
Acq: 27 Oct 2018 09:34

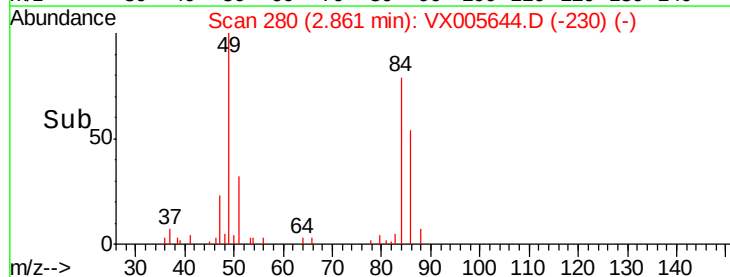
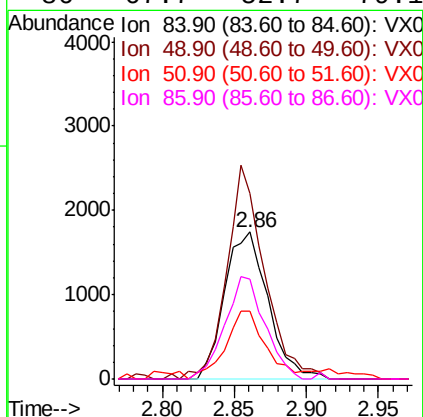
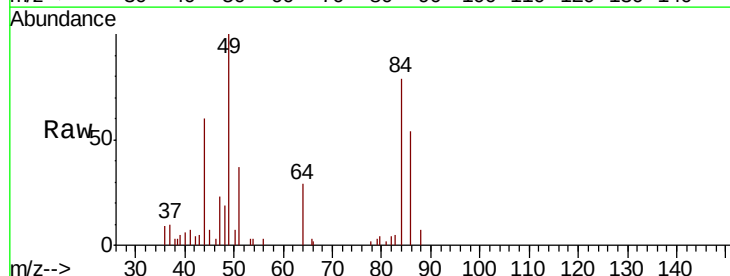
Instrument :
MSVOA_X
ClientSampleId :
SU-01-102518-A

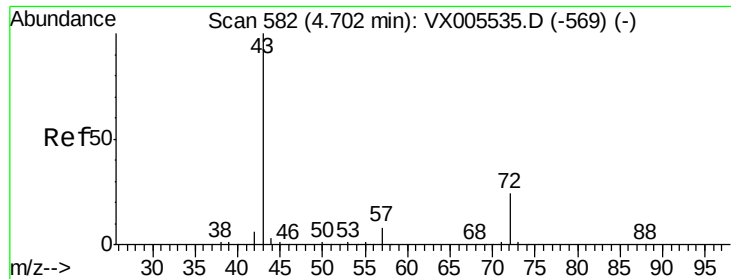
Tot Ion: 43 Resp: 4497
Ion Ratio Lower Upper
43 100
74 24.0 16.8 25.2



#20
Methylene Chloride
Concen: 1.484 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005644.D
Acq: 27 Oct 2018 09:34

Tgt Ion: 84 Resp: 3671
Ion Ratio Lower Upper
84 100
49 126.2 109.5 164.3
51 46.6 33.3 49.9
86 67.7 52.7 79.1





#25

2-Butanone

Concen: 1.231 ug/l

RT: 4.71 min Scan# 584

Delta R.T. 0.01 min

Lab File: VX005644.D

Acq: 27 Oct 2018 09:34

Instrument :

MSVOA_X

ClientSampleId :

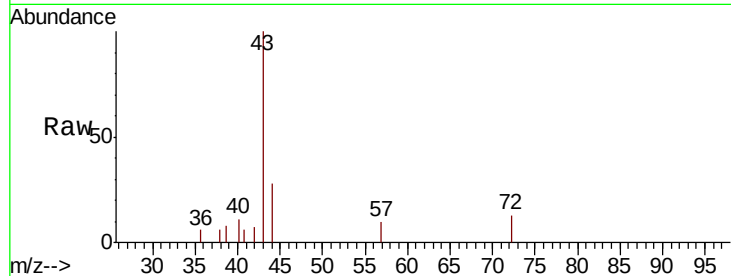
SU-01-102518-A

Tot Ion: 43 Resp: 2770

Ion Ratio Lower Upper

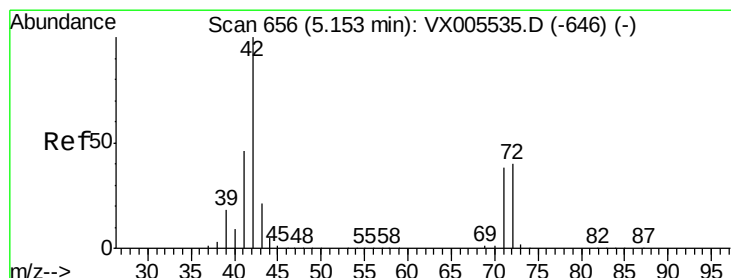
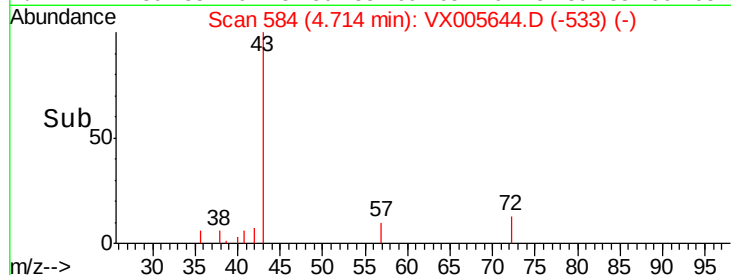
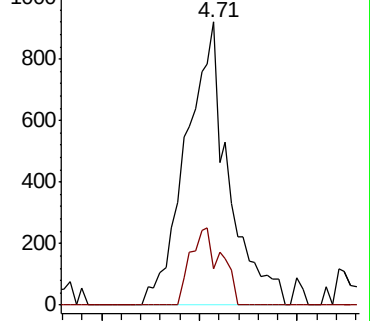
43 100

72 13.0 19.2 28.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#29

Tetrahydrofuran

Concen: 0.321 ug/l

RT: 5.16 min Scan# 657

Delta R.T. 0.01 min

Lab File: VX005644.D

Acq: 27 Oct 2018 09:34

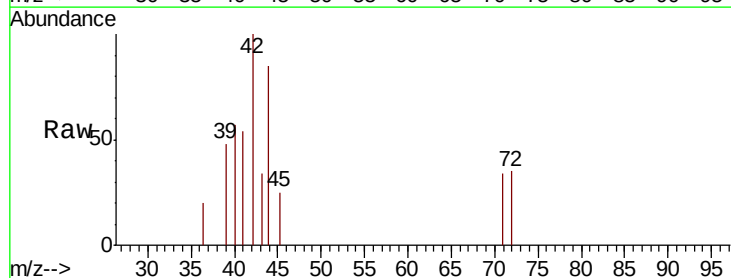
Tgt Ion: 42 Resp: 470

Ion Ratio Lower Upper

42 100

72 78.9 32.0 48.0#

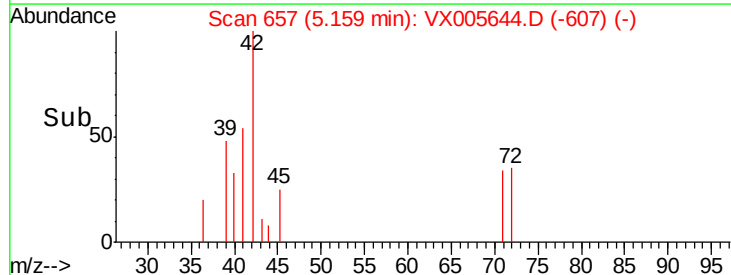
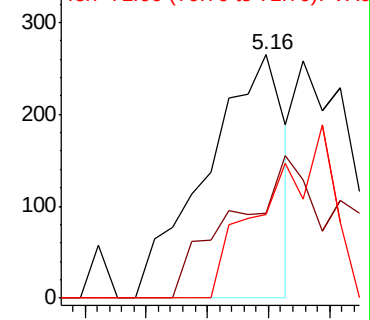
71 60.9 29.8 44.8#

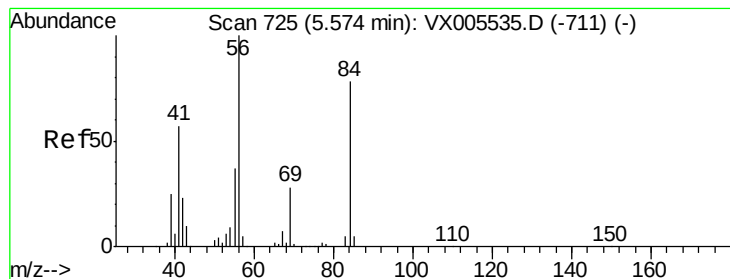


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0





#31

Cyclohexane

Concen: 1.156 ug/l

RT: 5.66 min Scan# 739

Delta R.T. 0.09 min

Lab File: VX005644.D

Acq: 27 Oct 2018 09:34

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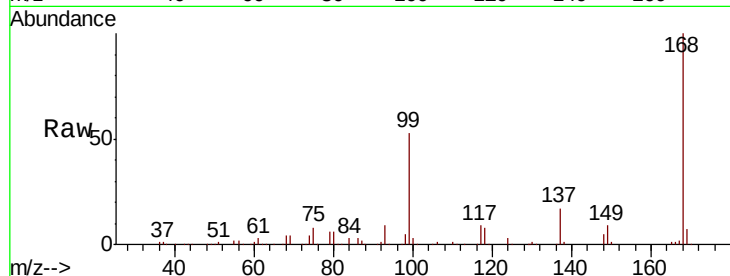
Tot Ion: 56 Resp: 4358

Ion Ratio Lower Upper

56 100

69 178.1 22.6 34.0#

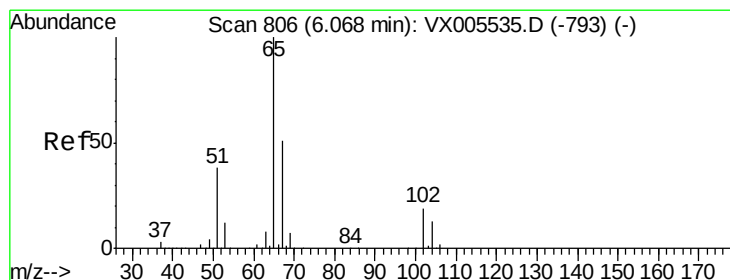
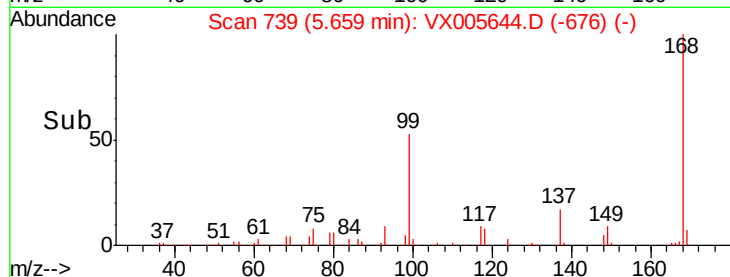
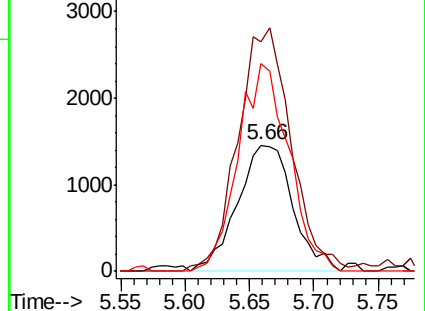
84 164.9 62.7 94.1#



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: 51.278 ug/l

RT: 6.06 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX005644.D

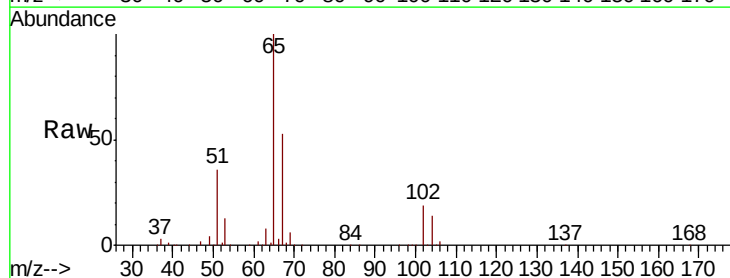
Acq: 27 Oct 2018 09:34

Tgt Ion: 65 Resp: 143372

Ion Ratio Lower Upper

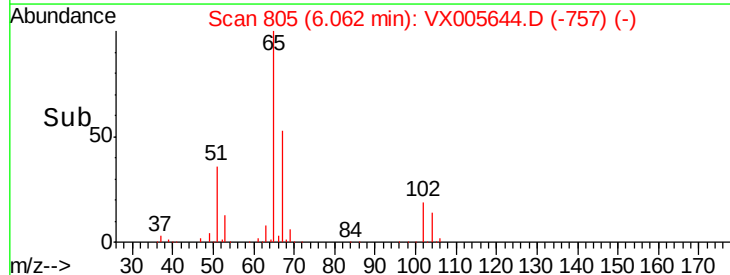
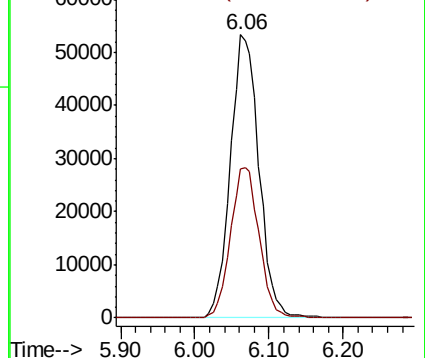
65 100

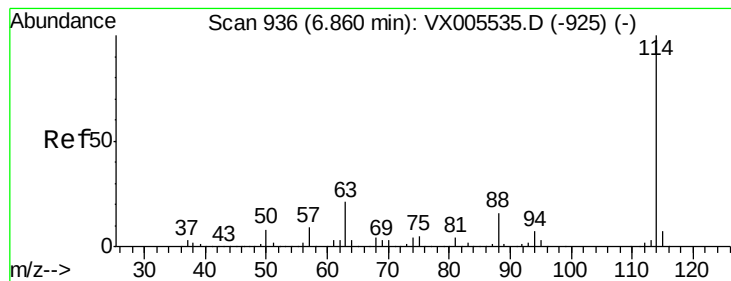
67 53.3 0.0 105.0



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: VX005644.D

Acq: 27 Oct 2018 09:34

Instrument :

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ClientSampleId :

SU-01-102518-A

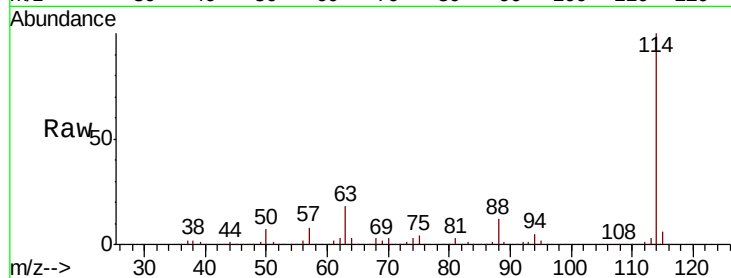
Tot Ion:114 Resp: 362570

Ion Ratio Lower Upper

114 100

63 18.1 0.0 42.8

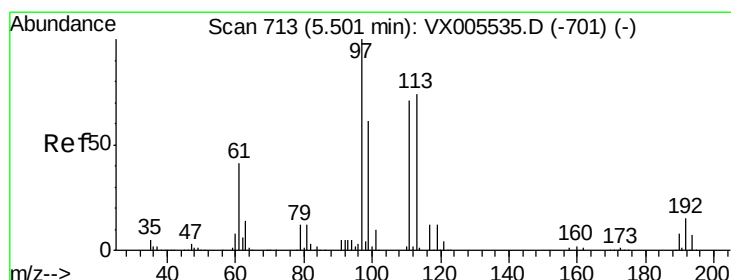
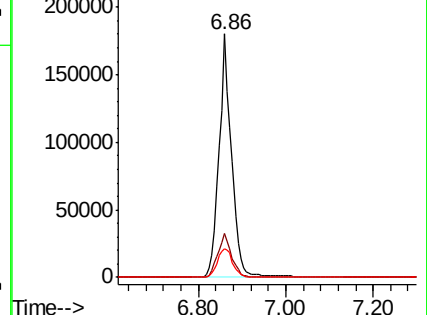
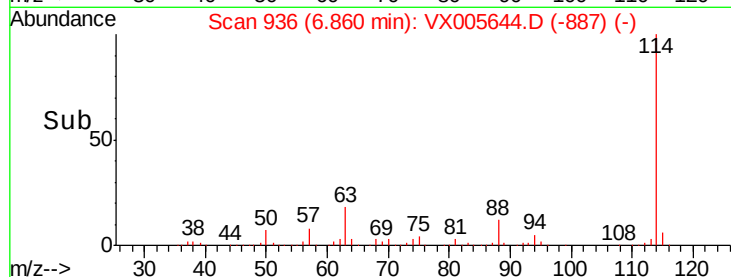
88 11.8 0.0 31.2



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: 48.849 ug/l

RT: 5.49 min Scan# 712

Delta R.T. -0.01 min

Lab File: VX005644.D

Acq: 27 Oct 2018 09:34

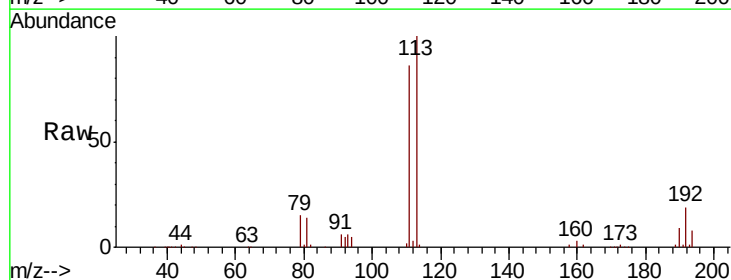
Tgt Ion:113 Resp: 119924

Ion Ratio Lower Upper

113 100

111 101.3 82.3 123.5

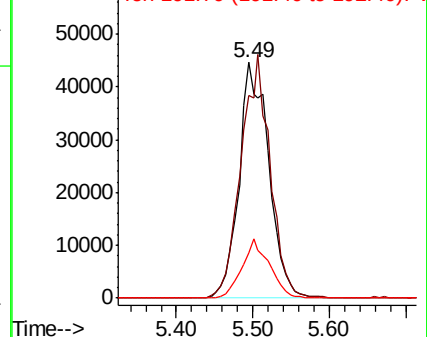
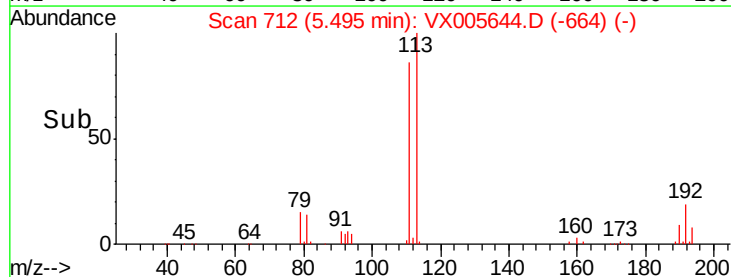
192 23.4 17.9 26.9

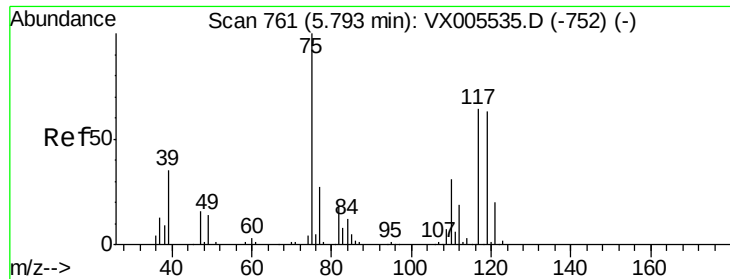


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

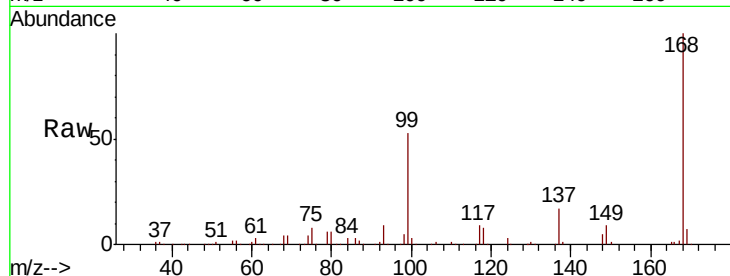




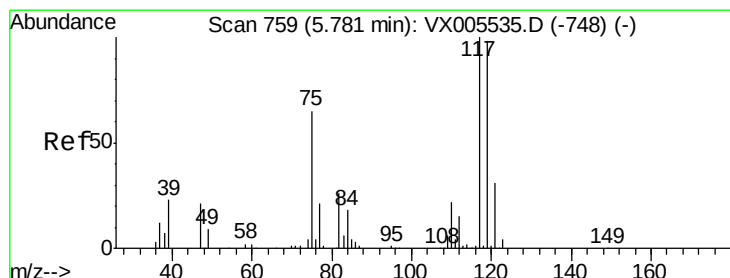
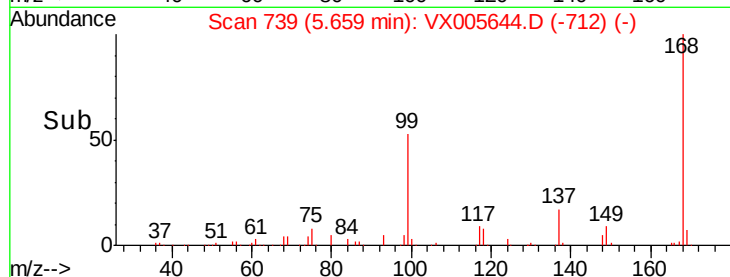
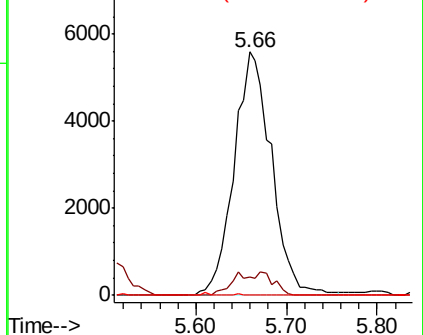
#36
 1,1-Dichloropropene
 Concen: 4.548 ug/l
 RT: 5.66 min Scan# 739
 Delta R.T. -0.13 min
 Lab File: VX005644.D
 Acq: 27 Oct 2018 09:34

Instrument :
 MSVOA_X
 ClientSampleId :
 SU-01-102518-A

Tot Ion	Ratio	Lower	Upper
75	100		
110	5.6	17.4	52.2#
77	0.1	25.8	38.6#

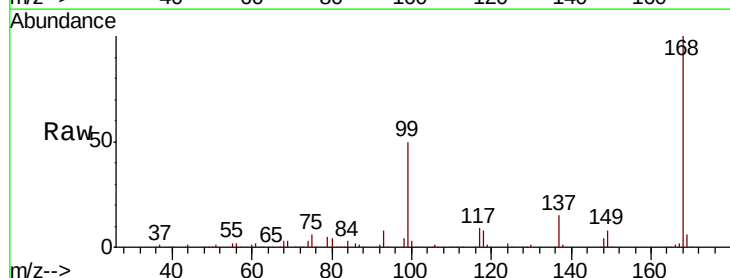


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

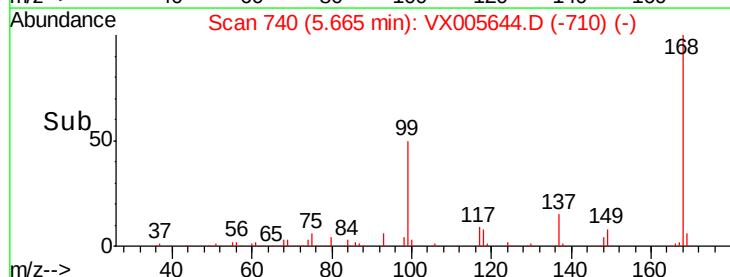
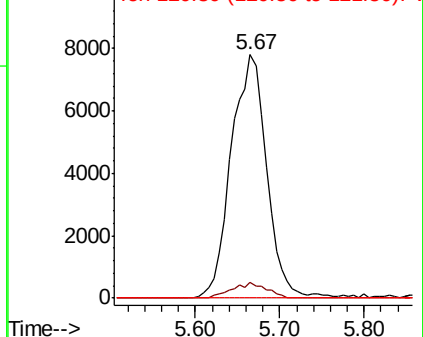


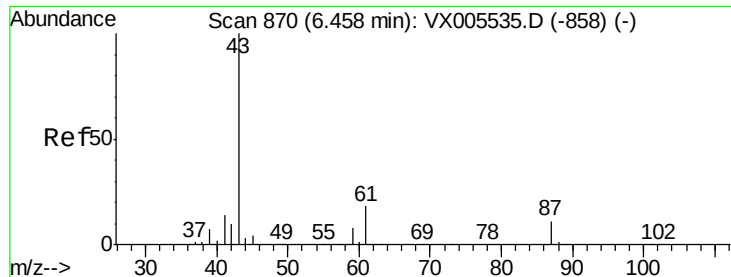
#38
 Carbon Tetrachloride
 Concen: 5.989 ug/l
 RT: 5.67 min Scan# 740
 Delta R.T. -0.12 min
 Lab File: VX005644.D
 Acq: 27 Oct 2018 09:34

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.6	78.1	117.1#
121	0.0	24.6	36.8#



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: 23.820 ug/l

RT: 6.46 min Scan# 870

Delta R.T. 0.00 min

Lab File: VX005644.D

Acq: 27 Oct 2018 09:34

Instrument :

MSVOA_X

ClientSampleId :

SU-01-102518-A

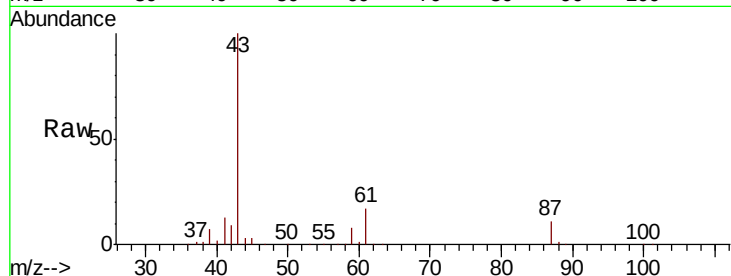
Tot Ion: 43 Resp: 160270

Ion Ratio Lower Upper

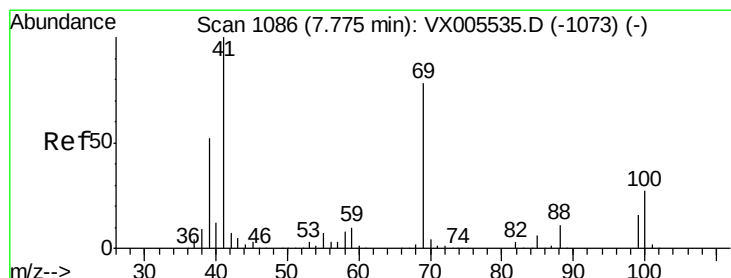
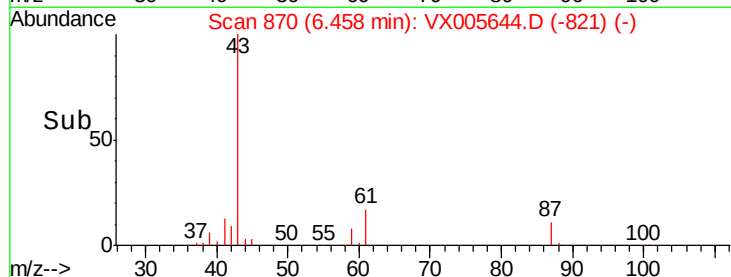
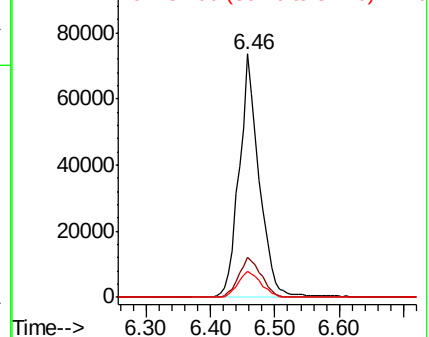
43 100

61 18.6 14.6 22.0

87 12.4 9.6 14.4



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

Methyl methacrylate

Concen: 1.932 ug/l

RT: 7.69 min Scan# 1072

Delta R.T. -0.09 min

Lab File: VX005644.D

Acq: 27 Oct 2018 09:34

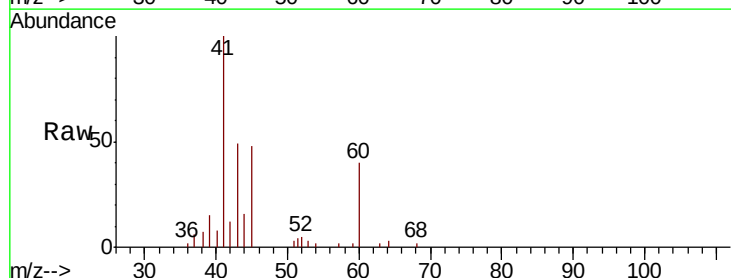
Tgt Ion: 41 Resp: 6333

Ion Ratio Lower Upper

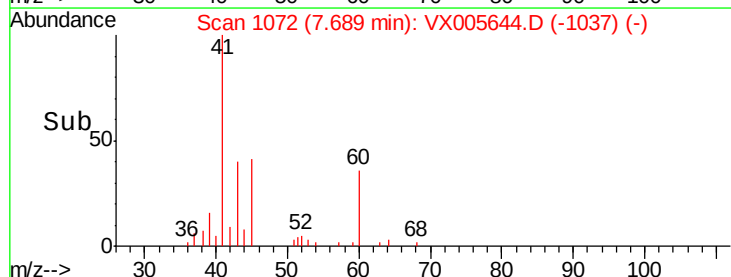
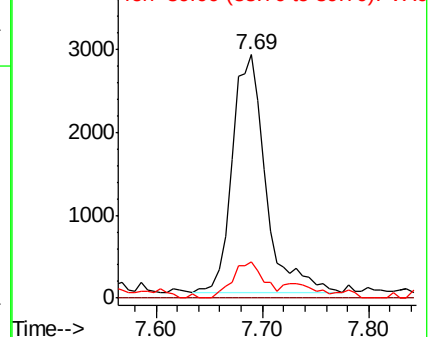
41 100

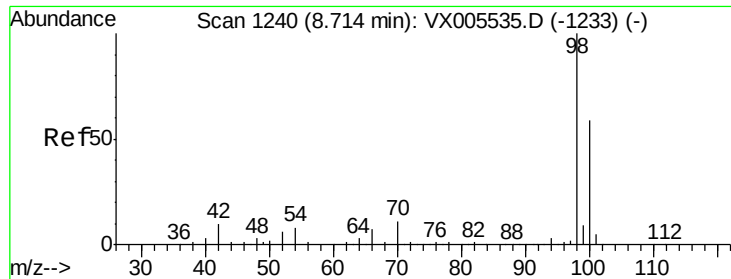
69 0.0 63.2 94.8#

39 14.1 42.2 63.2#



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

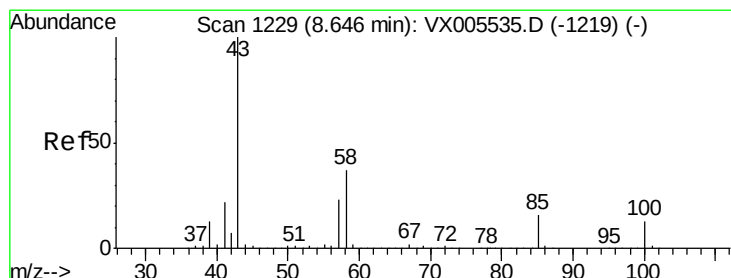
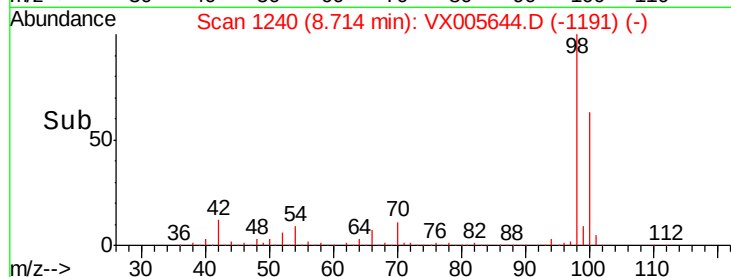
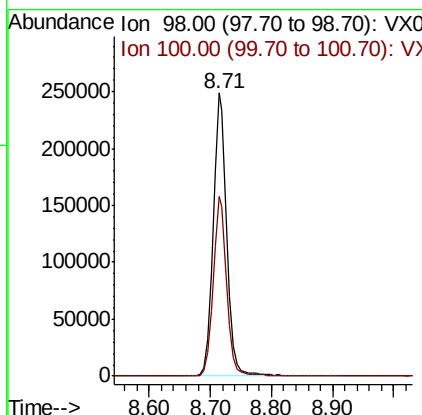
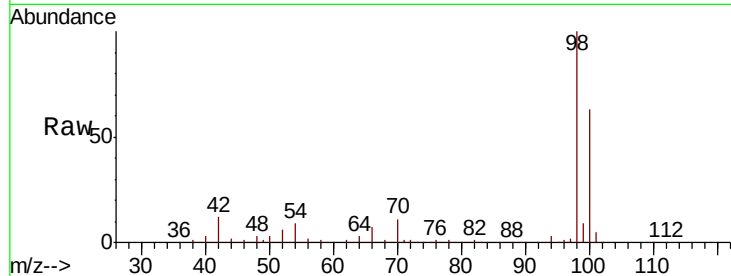




#50
Toluene-d8
Concen: 45.021 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX005644.D
Acq: 27 Oct 2018 09:34

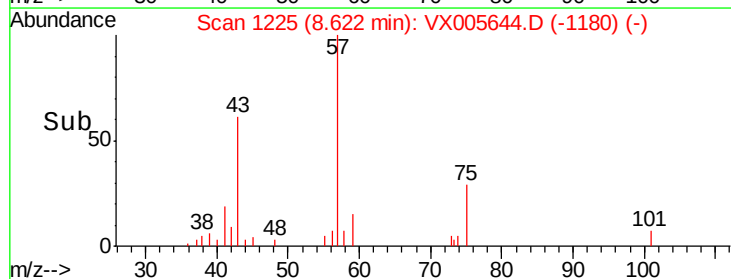
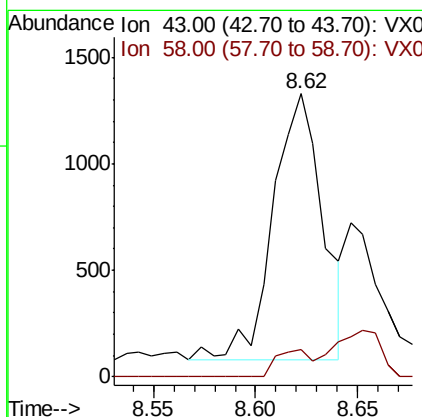
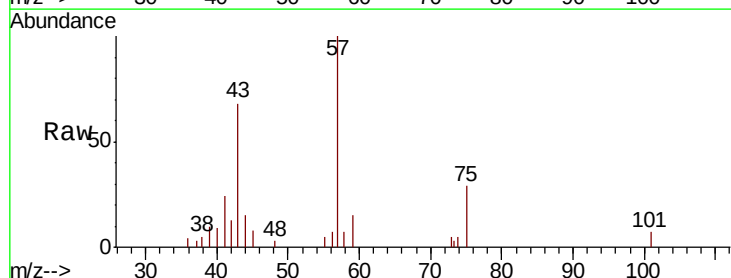
Instrument :
MSVOA_X
ClientSampleId :
SU-01-102518-A

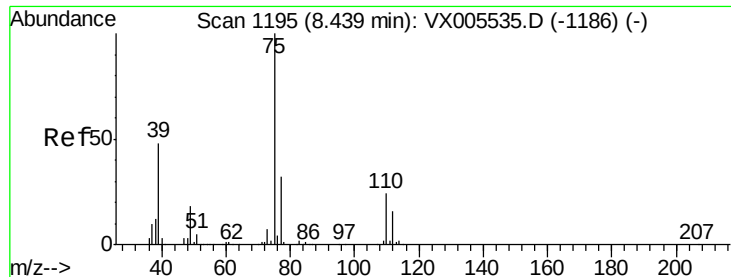
Tot Ion: 98 Resp: 397152
Ion Ratio Lower Upper
98 100
100 63.3 51.3 76.9



#51
4-Methyl-2-Pentanone
Concen: 0.467 ug/l
RT: 8.62 min Scan# 1225
Delta R.T. -0.02 min
Lab File: VX005644.D
Acq: 27 Oct 2018 09:34

Tgt Ion: 43 Resp: 2112
Ion Ratio Lower Upper
43 100
58 7.3 29.7 44.5#





#54

cis-1,3-Dichloropropene

Concen: 0.258 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX005644.D

Acq: 27 Oct 2018 09:34

Instrument :

MSVOA_X

ClientSampleId :

SU-01-102518-A

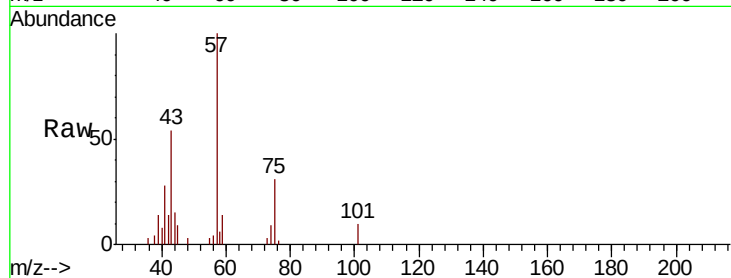
Tot Ion: 75 Resp: 1021

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

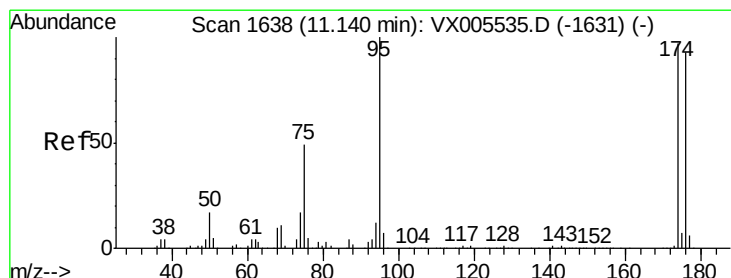
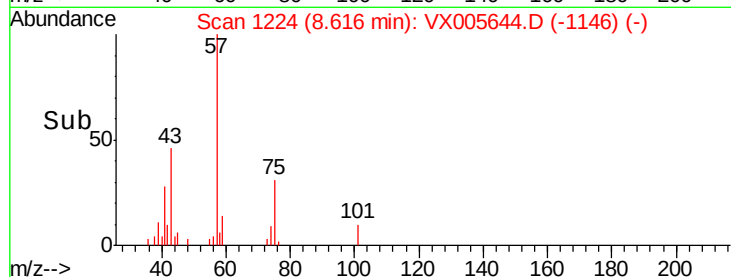
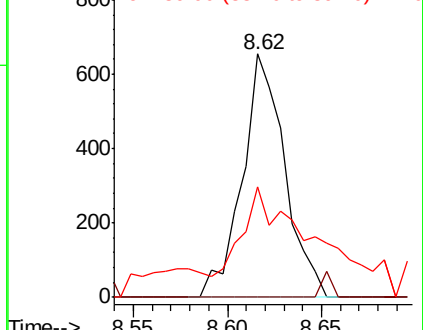
39 33.4 38.2 57.2#



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0



#62

4-Bromofluorobenzene

Concen: 47.075 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.01 min

Lab File: VX005644.D

Acq: 27 Oct 2018 09:34

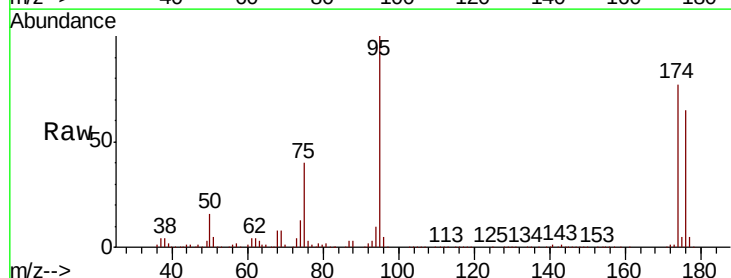
Tgt Ion: 95 Resp: 156823

Ion Ratio Lower Upper

95 100

174 90.5 0.0 184.4

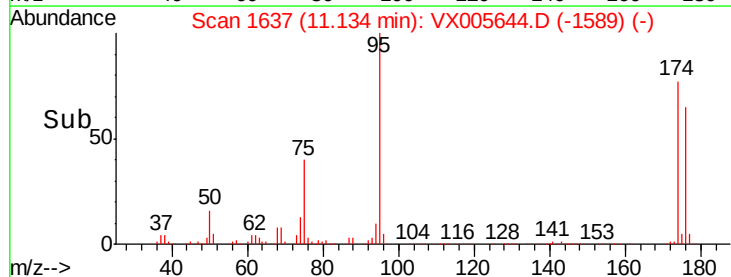
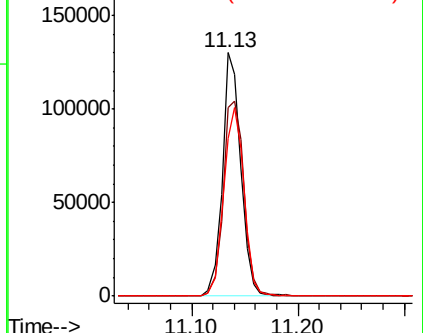
176 85.9 0.0 177.4

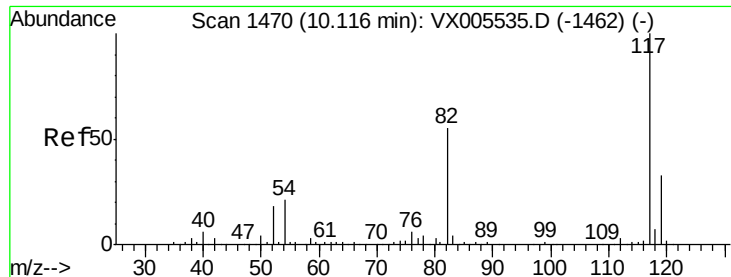


Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

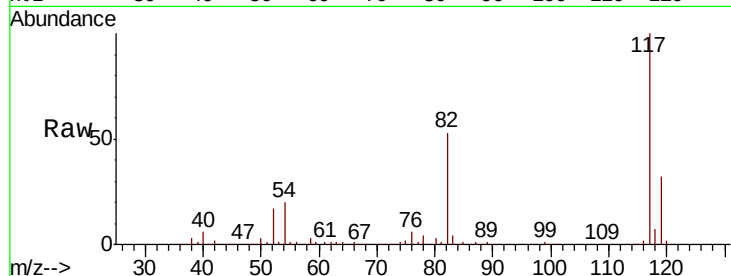




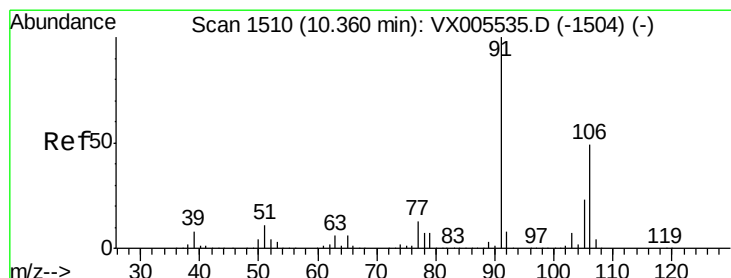
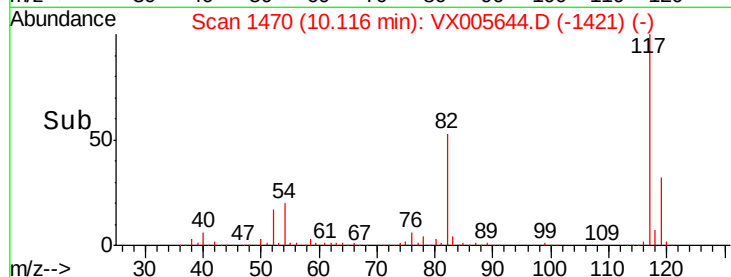
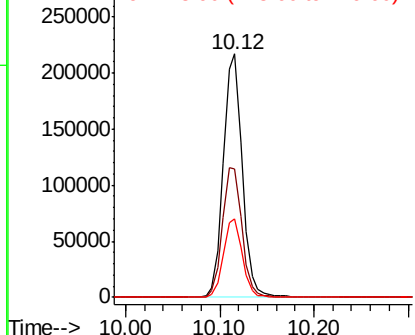
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.00 min
Lab File: VX005644.D
Acq: 27 Oct 2018 09:34

Instrument :
MSVOA_X
ClientSampleId :
SU-01-102518-A

Tot Ion:117 Resp: 302367
Ion Ratio Lower Upper
117 100
82 52.9 44.1 66.1
119 32.5 26.2 39.2

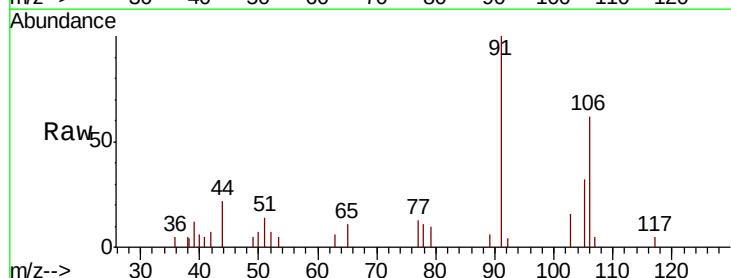


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

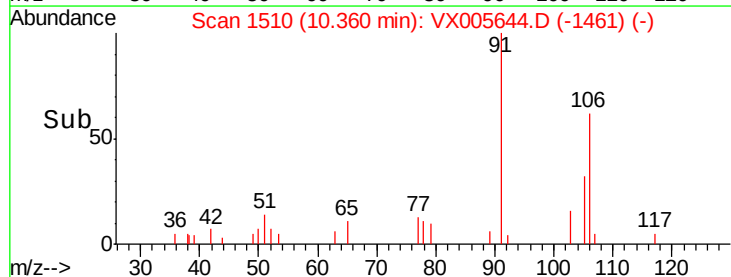
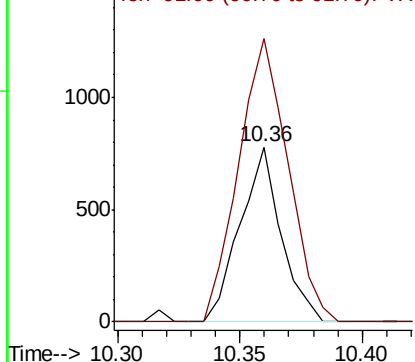


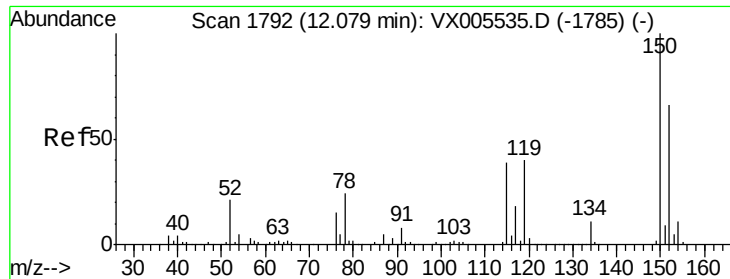
#68
m/p-Xylenes
Concen: 0.221 ug/l
RT: 10.36 min Scan# 1510
Delta R.T. -0.00 min
Lab File: VX005644.D
Acq: 27 Oct 2018 09:34

Tgt Ion:106 Resp: 909
Ion Ratio Lower Upper
106 100
91 194.7 164.2 246.4



Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): VX0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX005644.D

Acq: 27 Oct 2018 09:34

Instrument :

MSVOA_X

ClientSampleId :

SU-01-102518-A

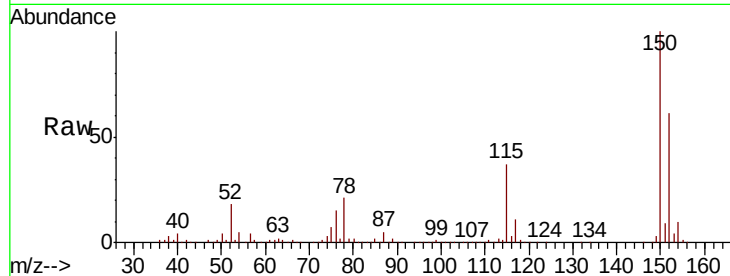
Tot Ion:152 Resp: 177469

Ion Ratio Lower Upper

152 100

115 57.0 39.4 118.1

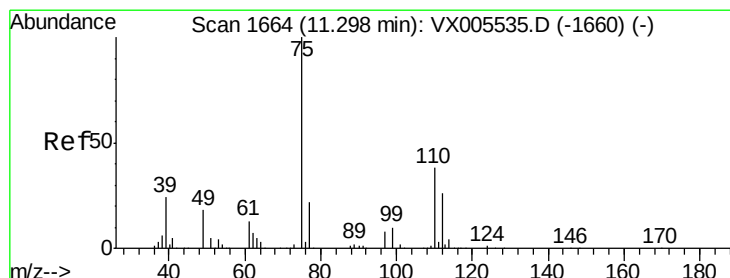
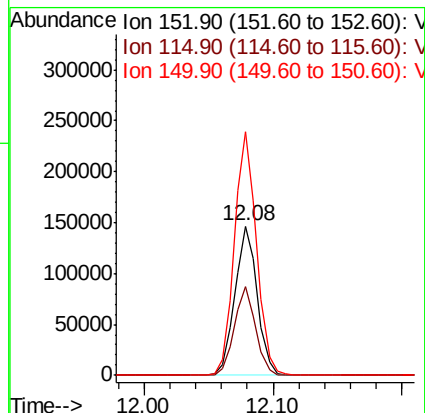
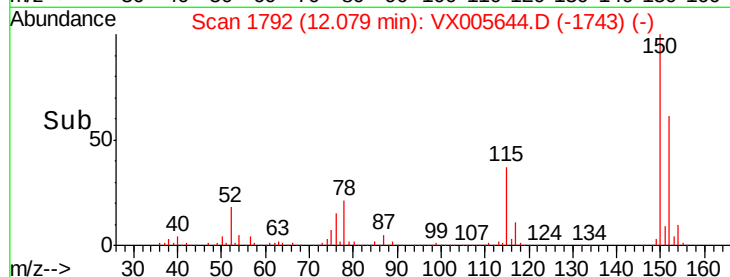
150 161.6 0.0 346.4



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: 18.691 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. -0.16 min

Lab File: VX005644.D

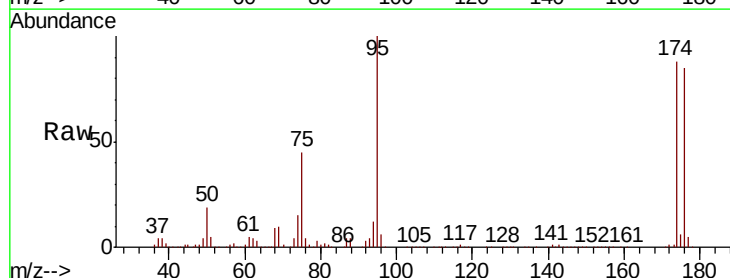
Acq: 27 Oct 2018 09:34

Tgt Ion: 75 Resp: 70280

Ion Ratio Lower Upper

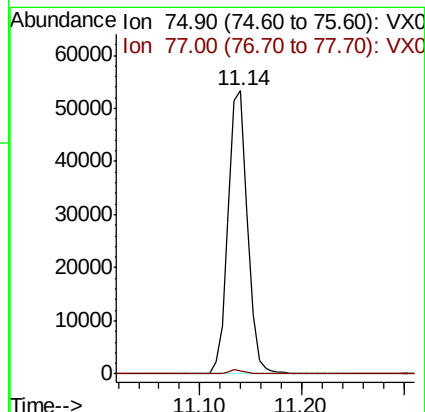
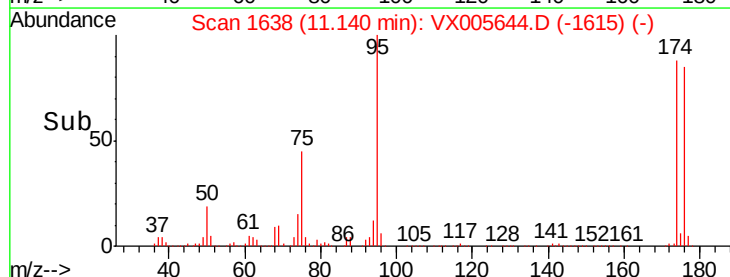
75 100

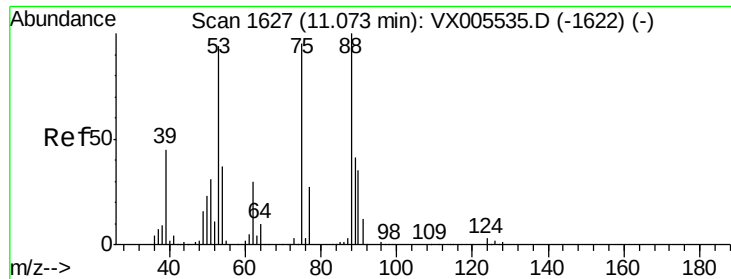
77 1.4 20.5 61.6#



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: 61.073 ug/l

RT: 11.14 min Scan# 1638

Delta R.T. 0.07 min

Lab File: VX005644.D

Acq: 27 Oct 2018 09:34

Instrument :

MSVOA_X

ClientSampleId :

SU-01-102518-A

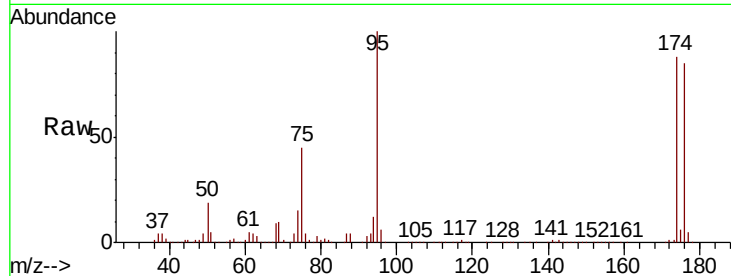
Tot Ion: 75 Resp: 70280

Ion Ratio Lower Upper

75 100

53 0.3 80.2 120.2#

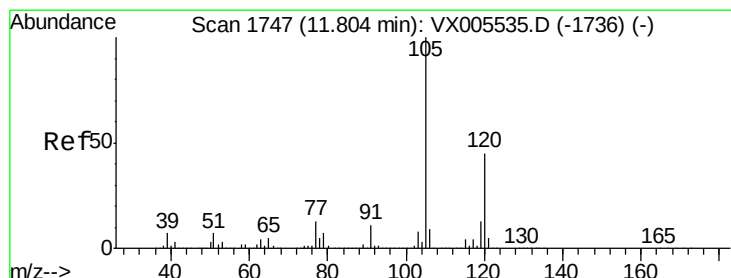
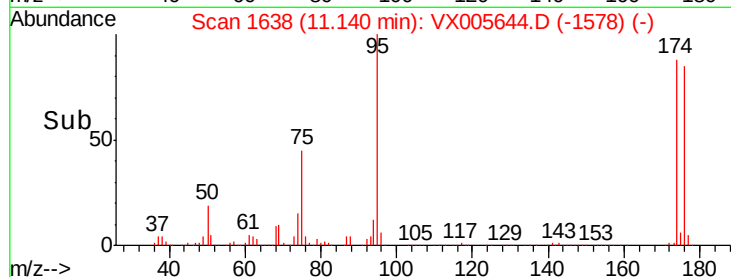
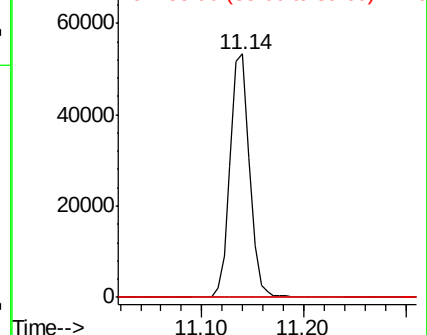
89 0.0 39.8 59.8#



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



#84

1,2,4-Trimethylbenzene

Concen: 0.211 ug/l

RT: 11.80 min Scan# 1747

Delta R.T. 0.00 min

Lab File: VX005644.D

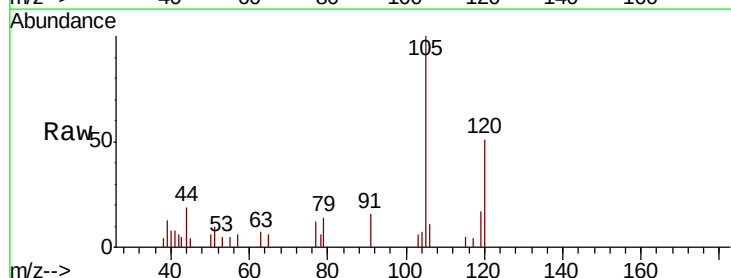
Acq: 27 Oct 2018 09:34

Tgt Ion:105 Resp: 1986

Ion Ratio Lower Upper

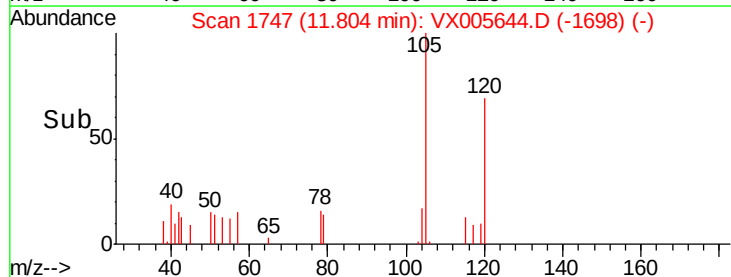
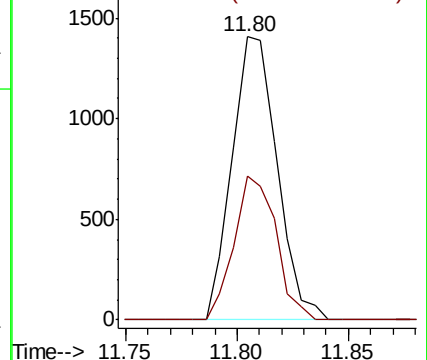
105 100

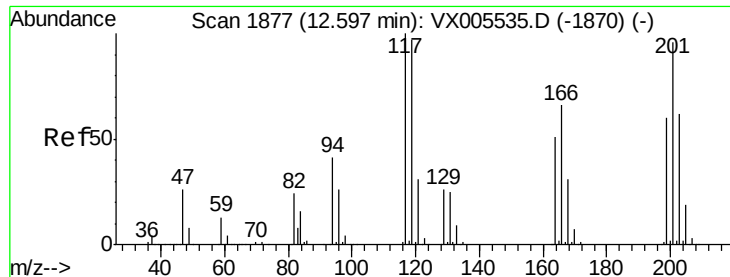
120 47.3 22.4 67.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#90

Hexachloroethane

Concen: 0.591 ug/l

RT: 12.76 min Scan# 1903

Delta R.T. 0.16 min

Lab File: VX005644.D

Acq: 27 Oct 2018 09:34

Instrument :

MSVOA_X

ClientSampleId :

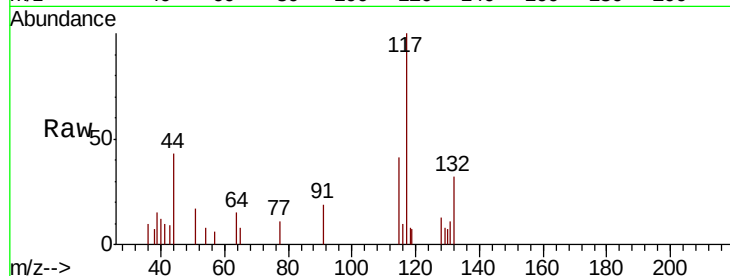
SU-01-102518-A

Tot Ion:117 Resp: 1006

Ion Ratio Lower Upper

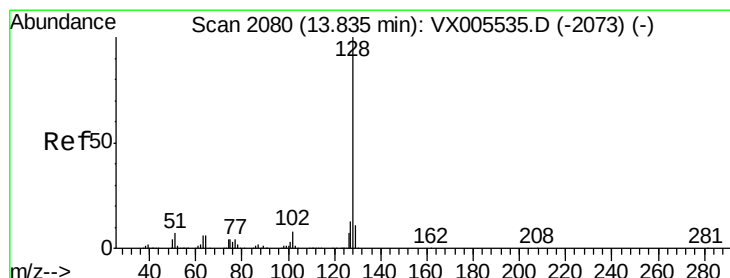
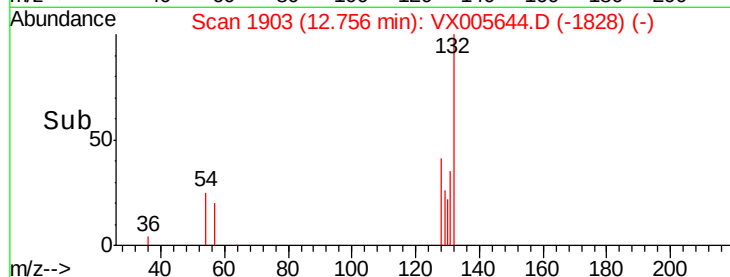
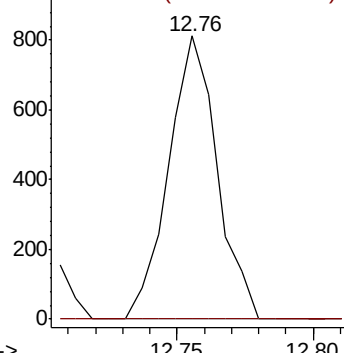
117 100

201 0.0 47.9 143.6#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 200.70 (200.40 to 201.40): V



#95

Naphthalene

Concen: 5.247 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. -0.00 min

Lab File: VX005644.D

Acq: 27 Oct 2018 09:34

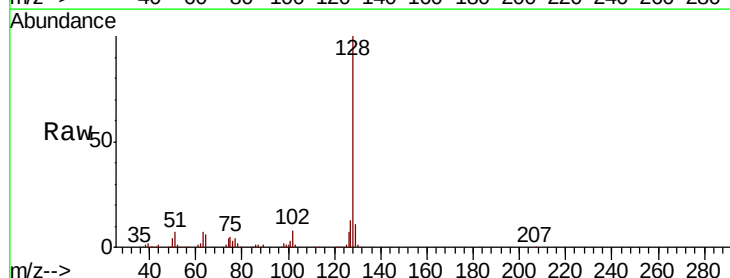
Tgt Ion:128 Resp: 63600

Ion Ratio Lower Upper

128 100

127 13.4 10.4 15.6

129 11.4 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

