

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX102618\
 Data File : VX005646.D
 Acq On : 27 Oct 2018 10:27
 Operator : JC/MD
 Sample : J5204-12
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 51 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 SU-02-102518-B

Quant Time: Oct 29 00:54:01 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	230383	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	348995	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	329088	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	175189	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	145832	51.86	ug/l	0.00
Spiked Amount			Recovery	=	103.72%	
35) Dibromofluoromethane	5.51	113	110618	46.81	ug/l	0.00
Spiked Amount			Recovery	=	93.62%	
50) Toluene-d8	8.71	98	426060	50.18	ug/l	0.00
Spiked Amount			Recovery	=	100.36%	
62) 4-Bromofluorobenzene	11.14	95	138841	43.30	ug/l	0.00
Spiked Amount			Recovery	=	86.60%	

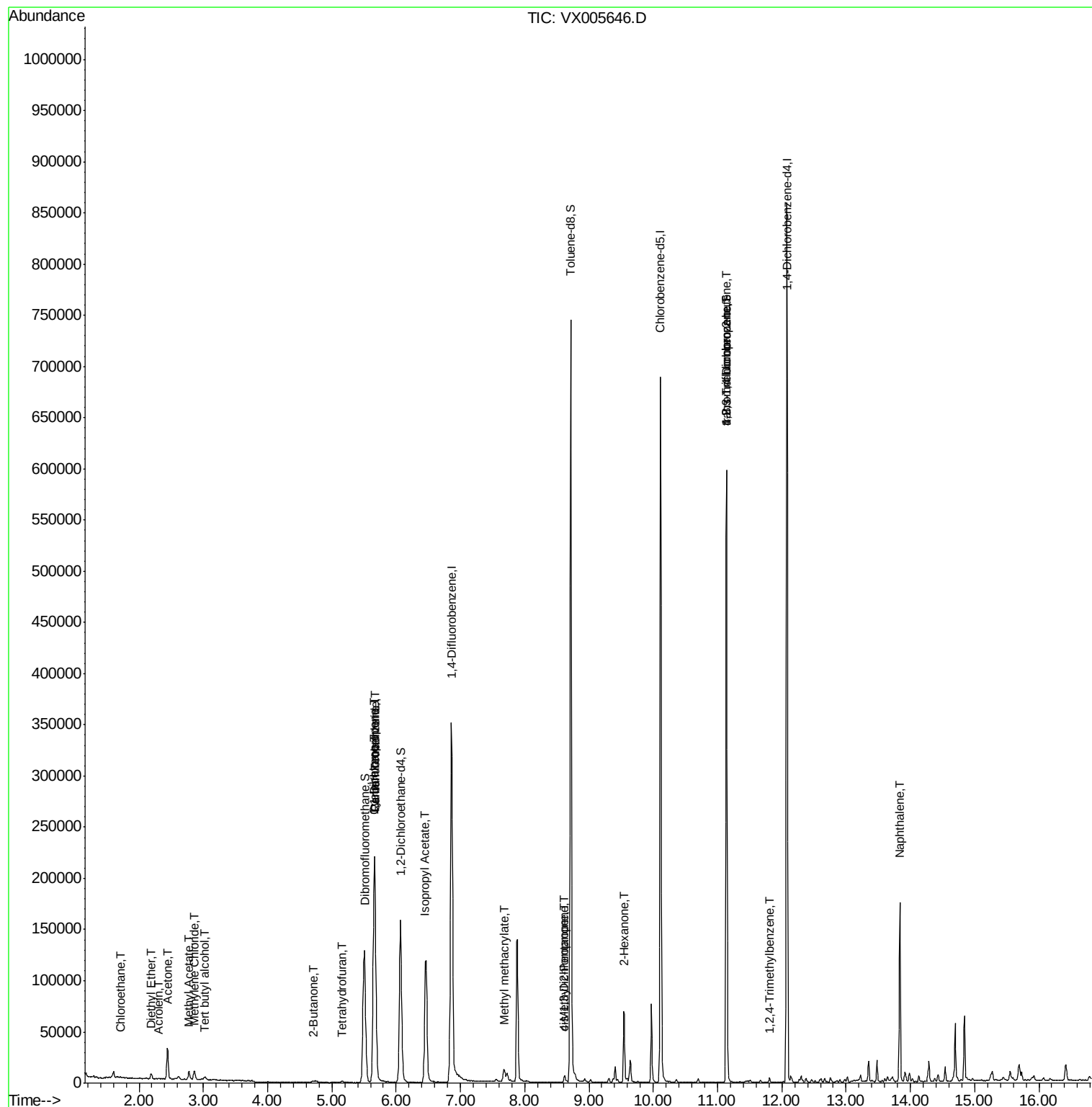
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
6) Chloroethane	1.71	64	526	0.289	ug/l #	43
8) Diethyl Ether	2.19	74	1716	1.087	ug/l	92
11) Tert butyl alcohol	3.01	59	1974	2.608	ug/l #	72
13) Acrolein	2.29	56	105	0.272	ug/l #	76
16) Acetone	2.44	43	30755	20.696	ug/l	97
18) Methyl Acetate	2.78	43	9012	1.023	ug/l	97
20) Methylene Chloride	2.86	84	3614	1.452	ug/l	94
25) 2-Butanone	4.71	43	2087	0.922	ug/l	96
29) Tetrahydrofuran	5.15	42	1002	0.680	ug/l #	75
31) Cyclohexane	5.65	56	4354	1.148	ug/l #	21
36) 1,1-Dichloropropene	5.65	75	16843	4.973	ug/l #	41
38) Carbon Tetrachloride	5.67	117	21061	5.904	ug/l #	16
43) Isopropyl Acetate	6.45	43	173797	26.835	ug/l	99
48) Methyl methacrylate	7.68	41	6892	2.184	ug/l #	23
51) 4-Methyl-2-Pentanone	8.62	43	2058	0.473	ug/l #	38
54) cis-1,3-Dichloropropene	8.62	75	879	0.231	ug/l #	77
59) 2-Hexanone	9.54	43	8349	2.433	ug/l #	60
76) 1,2,3-Trichloropropane	11.13	75	70843	19.086	ug/l #	36
81) trans-1,4-Dichloro-2-buten	11.13	75	70843	62.363	ug/l #	9
84) 1,2,4-Trimethylbenzene	11.81	105	1922	0.207	ug/l	91
95) Naphthalene	13.83	128	105781	8.841	ug/l	100

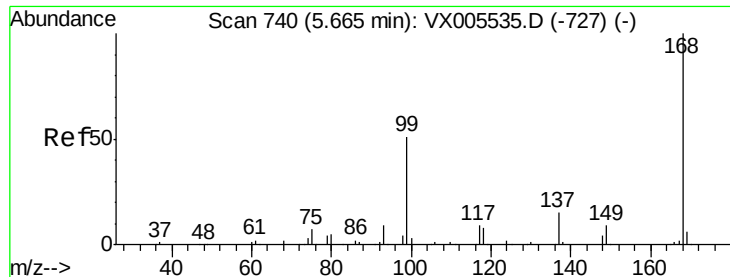
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : J5204-12
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 51 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampled :
SU-02-102518-B

Quant Time: Oct 29 00:54:01 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X102418W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 25 02:52:45 2018
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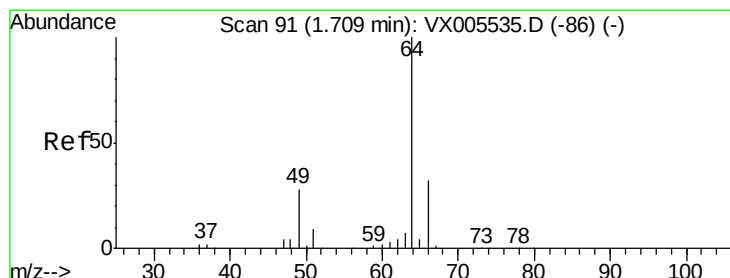
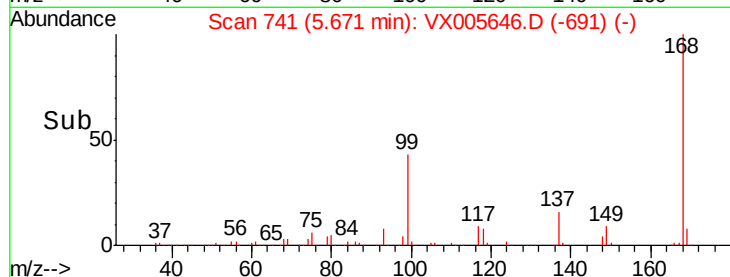
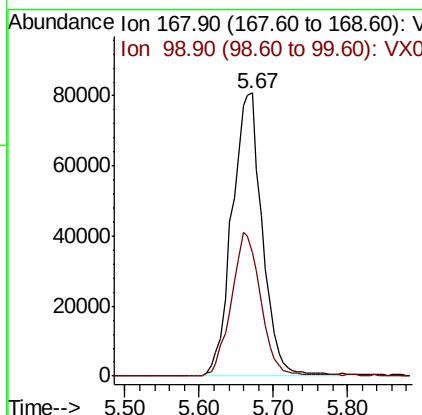
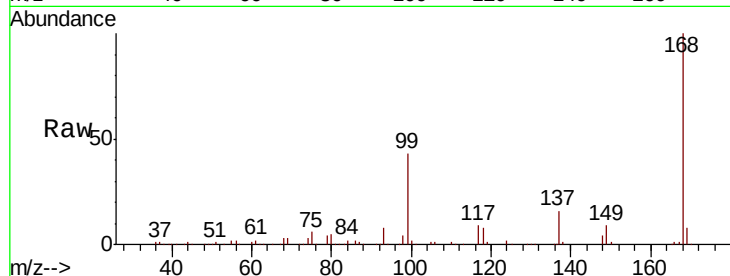




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.67 min Scan# 741
Delta R.T. 0.01 min
Lab File: VX005646.D
Acq: 27 Oct 2018 10:27

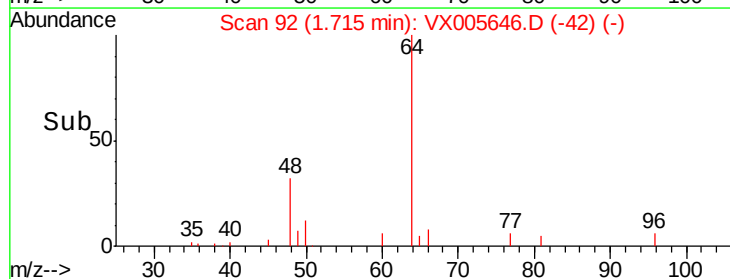
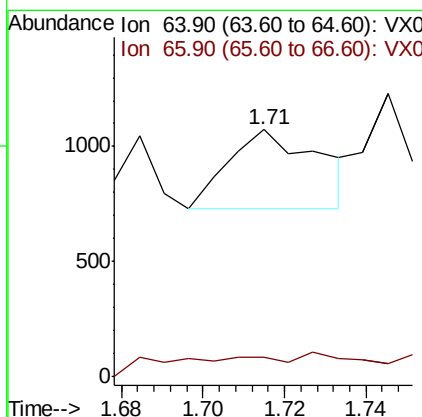
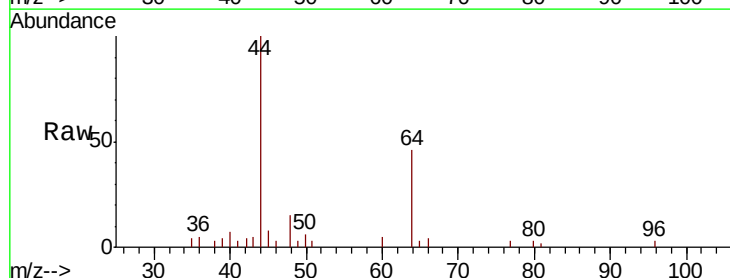
Instrument :
MSVOA_X
ClientSampleId :
SU-02-102518-B

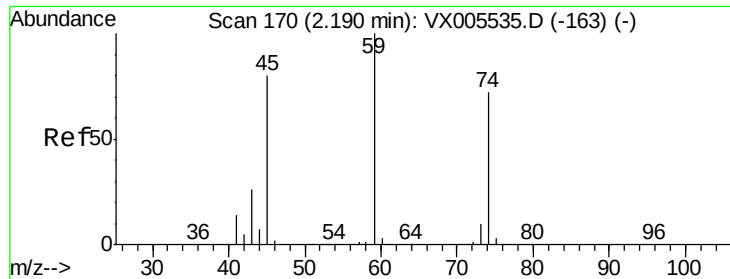
Tot Ion:168 Resp: 230383
Ion Ratio Lower Upper
168 100
99 43.4 40.7 61.1



#6
Chloroethane
Concen: 0.289 ug/l
RT: 1.71 min Scan# 92
Delta R.T. 0.01 min
Lab File: VX005646.D
Acq: 27 Oct 2018 10:27

Tgt Ion: 64 Resp: 526
Ion Ratio Lower Upper
64 100
66 0.6 25.8 38.6#





#8

Diethyl Ether

Concen: 1.087 ug/l

RT: 2.19 min Scan# 170

Delta R.T. 0.00 min

Lab File: VX005646.D

Acq: 27 Oct 2018 10:27

Instrument :

MSVOA_X

ClientSampleId :

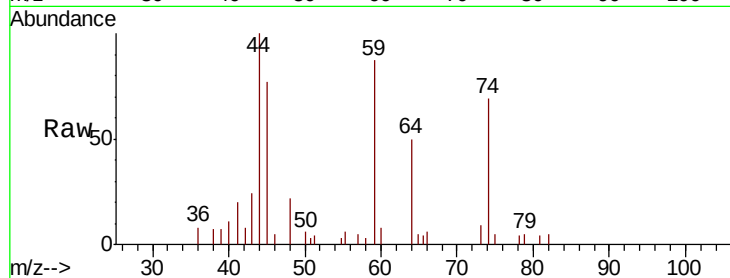
SU-02-102518-B

Tot Ion: 74 Resp: 1716

Ion Ratio Lower Upper

74 100

45 117.1 54.1 162.3



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0

1500

1000

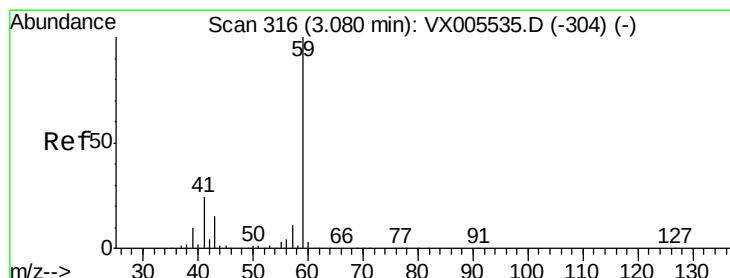
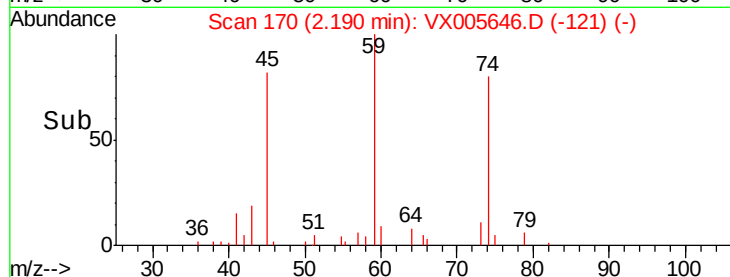
500

0

2.15 2.20 2.25

2.19

Time-->



#11

Tert butyl alcohol

Concen: 2.608 ug/l

RT: 3.01 min Scan# 305

Delta R.T. -0.07 min

Lab File: VX005646.D

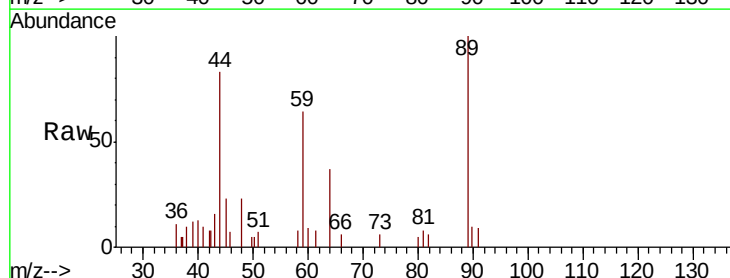
Acq: 27 Oct 2018 10:27

Tgt Ion: 59 Resp: 1974

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



Abundance Ion 59.00 (58.70 to 59.70): VX0

Ion 57.00 (56.70 to 57.70): VX0

800

600

400

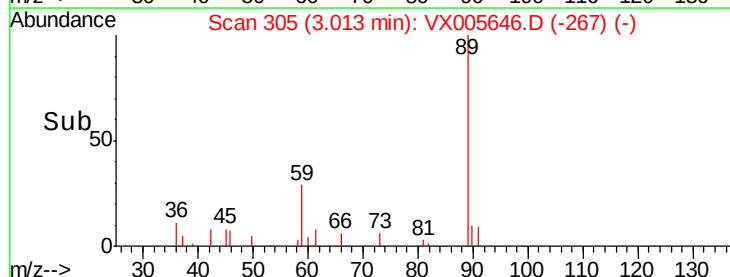
200

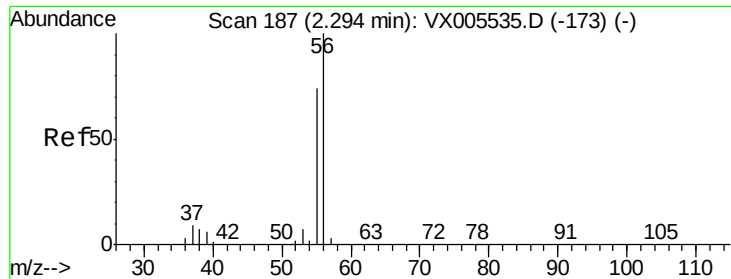
0

2.90 2.95 3.00 3.05 3.10

3.01

Time-->





#13

Acrolein

Concen: 0.272 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX005646.D

Acq: 27 Oct 2018 10:27

Instrument :

MSVOA_X

ClientSampleId :

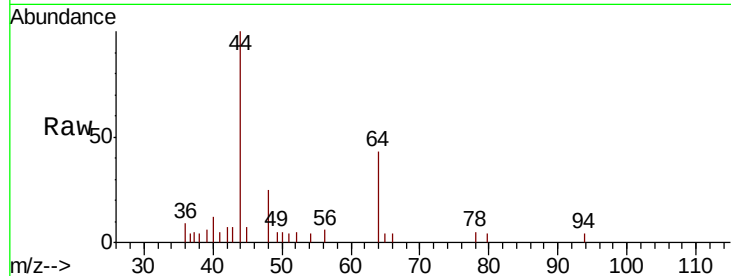
SU-02-102518-B

Tot Ion: 56 Resp: 105

Ion Ratio Lower Upper

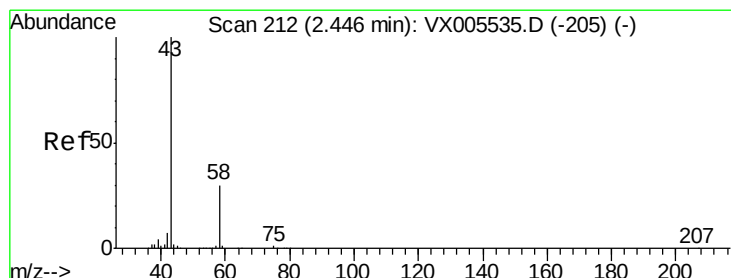
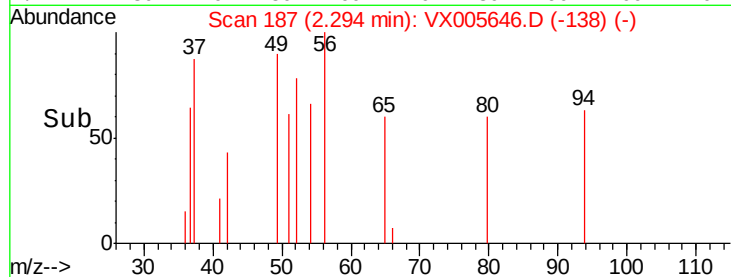
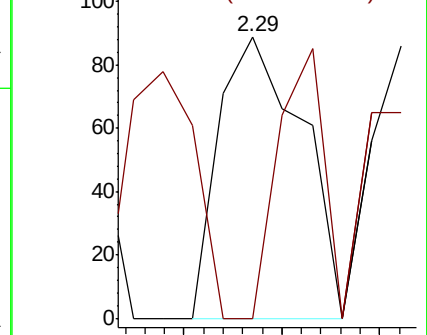
56 100

55 51.4 57.3 85.9#



Abundance Ion 56.00 (55.70 to 56.70): VX0

Ion 55.00 (54.70 to 55.70): VX0



#16

Acetone

Concen: 20.696 ug/l

RT: 2.44 min Scan# 211

Delta R.T. -0.01 min

Lab File: VX005646.D

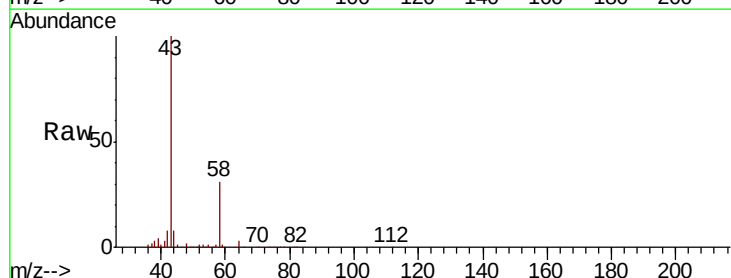
Acq: 27 Oct 2018 10:27

Tgt Ion: 43 Resp: 30755

Ion Ratio Lower Upper

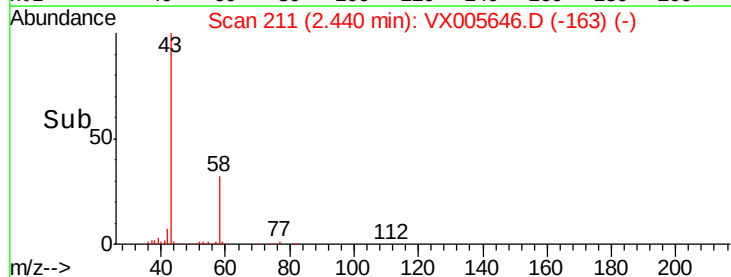
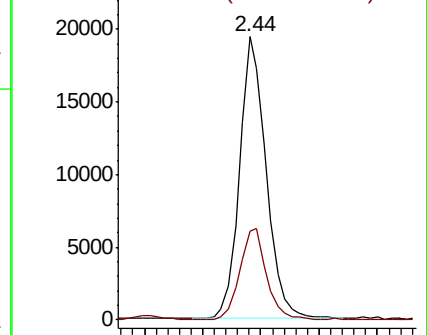
43 100

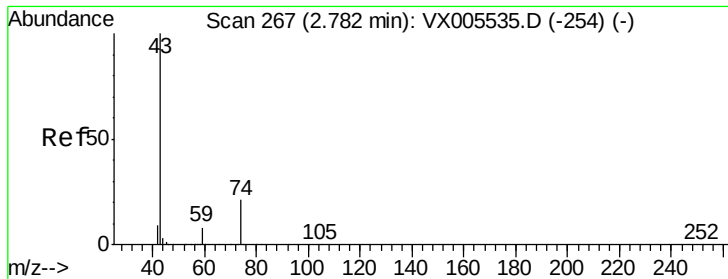
58 31.6 23.8 35.6



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

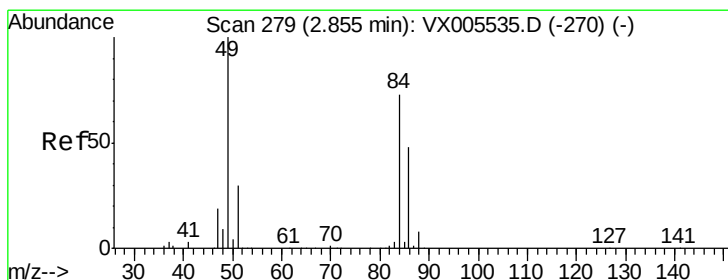
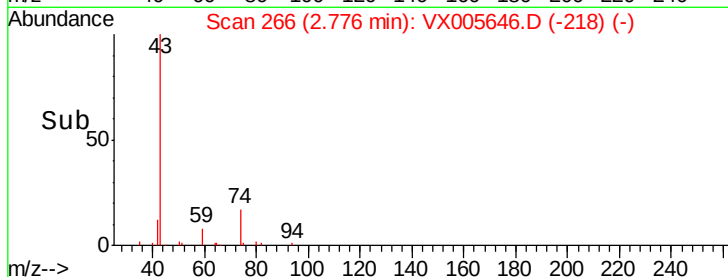
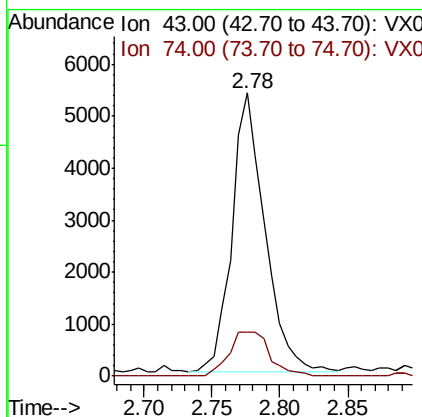
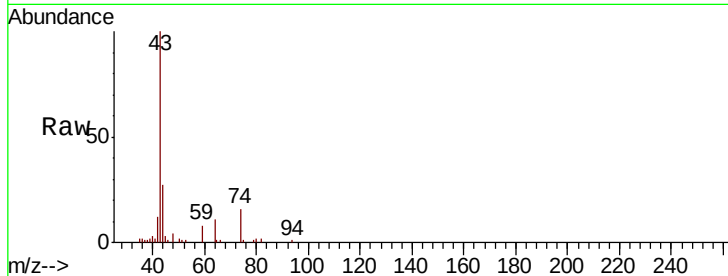




#18
Methvl Acetate
Concen: 1.023 ug/l
RT: 2.78 min Scan# 266
Delta R.T. -0.01 min
Lab File: VX005646.D
Acq: 27 Oct 2018 10:27

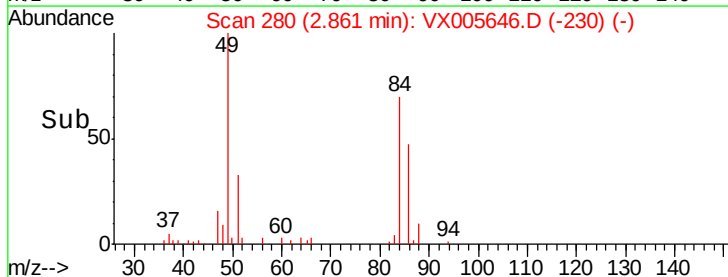
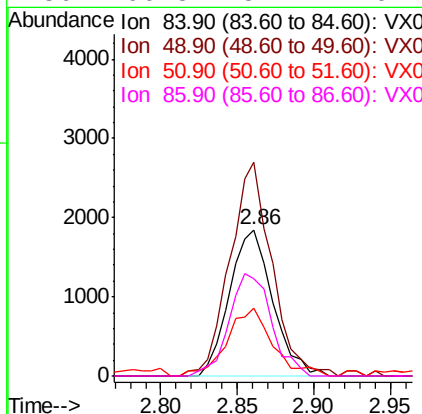
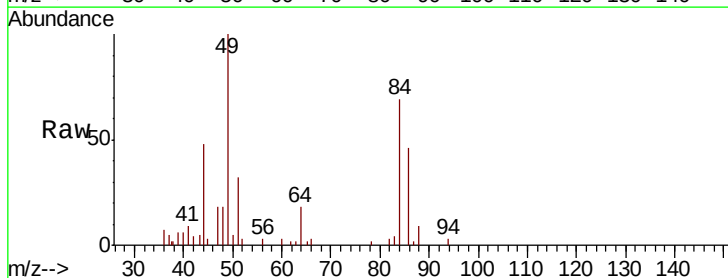
Instrument :
MSVOA_X
ClientSampleId :
SU-02-102518-B

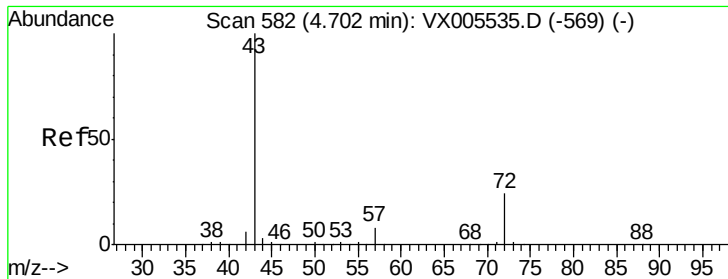
Tot Ion: 43 Resp: 9012
Ion Ratio Lower Upper
43 100
74 19.8 16.8 25.2



#20
Methylene Chloride
Concen: 1.452 ug/l
RT: 2.86 min Scan# 280
Delta R.T. 0.01 min
Lab File: VX005646.D
Acq: 27 Oct 2018 10:27

Tgt Ion: 84 Resp: 3614
Ion Ratio Lower Upper
84 100
49 145.9 109.5 164.3
51 46.7 33.3 49.9
86 66.8 52.7 79.1





#25

2-Butanone

Concen: 0.922 ug/l

RT: 4.71 min Scan# 583

Delta R.T. 0.01 min

Lab File: VX005646.D

Acq: 27 Oct 2018 10:27

Instrument :

MSVOA_X

ClientSampleId :

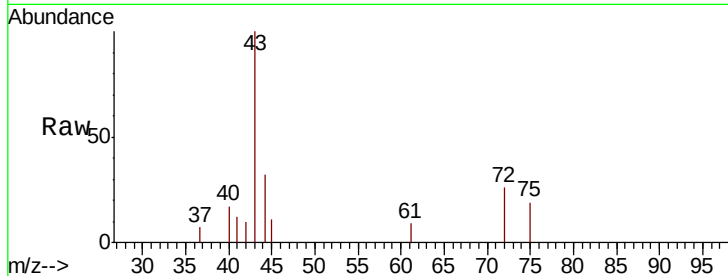
SU-02-102518-B

Tot Ion: 43 Resp: 2087

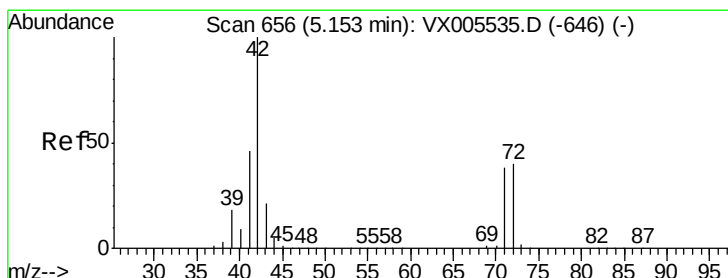
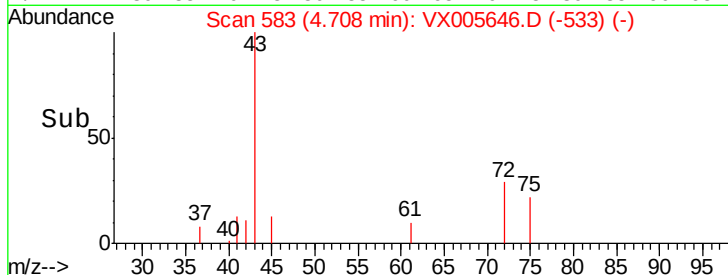
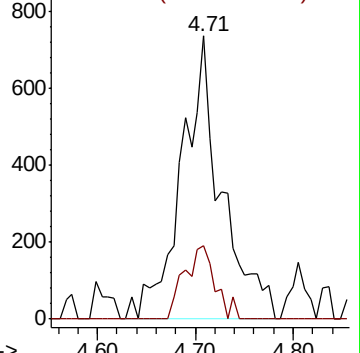
Ion Ratio Lower Upper

43 100

72 25.8 19.2 28.8



Abundance Ion 43.00 (42.70 to 43.70): VX0



#29

Tetrahydrofuran

Concen: 0.680 ug/l

RT: 5.15 min Scan# 656

Delta R.T. 0.00 min

Lab File: VX005646.D

Acq: 27 Oct 2018 10:27

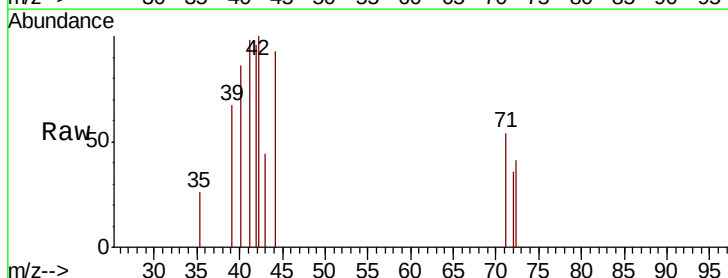
Tgt Ion: 42 Resp: 1002

Ion Ratio Lower Upper

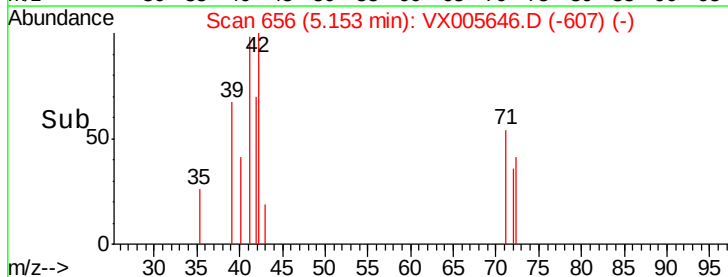
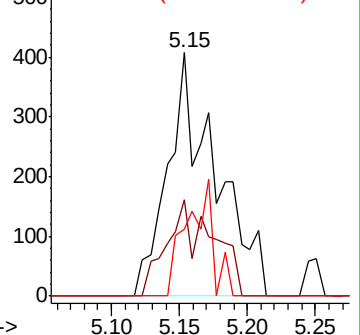
42 100

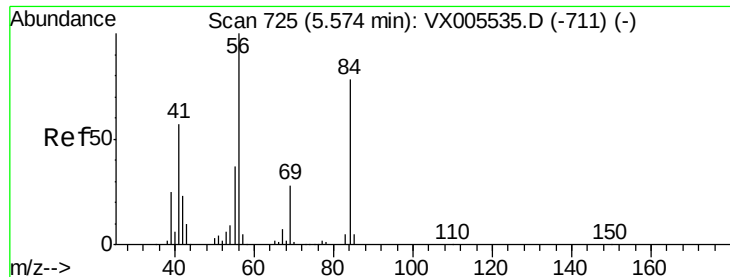
72 19.9 32.0 48.0#

71 26.9 29.8 44.8#



Abundance Ion 42.00 (41.70 to 42.70): VX0

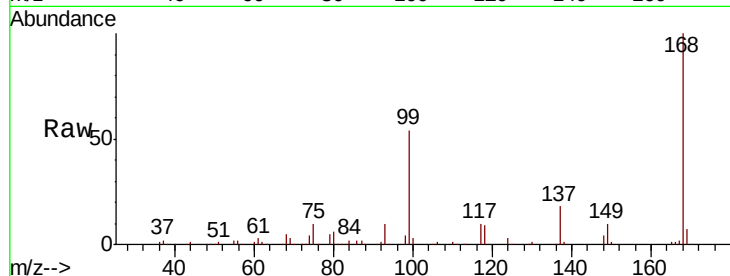




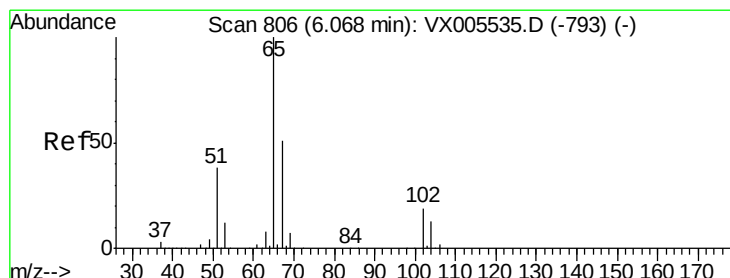
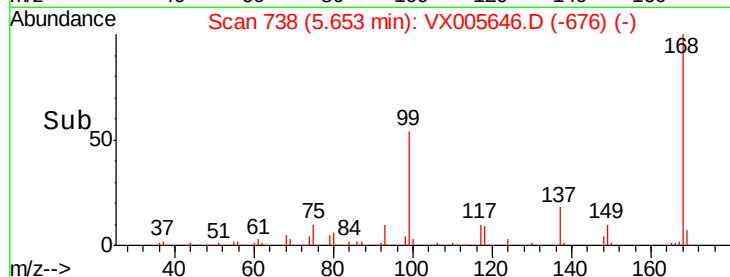
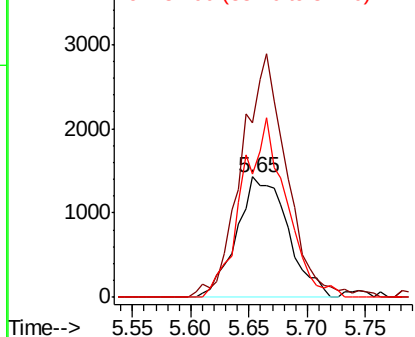
#31
Cyclohexane
Concen: 1.148 ug/l
RT: 5.65 min Scan# 738
Delta R.T. 0.08 min
Lab File: VX005646.D
Acq: 27 Oct 2018 10:27

Instrument :
MSVOA_X
ClientSampleId :
SU-02-102518-B

Tot Ion: 56 Resp: 4354
Ion Ratio Lower Upper
56 100
69 144.9 22.6 34.0#
84 102.7 62.7 94.1#

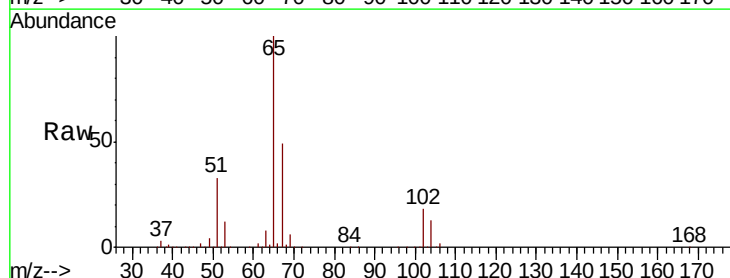


Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0

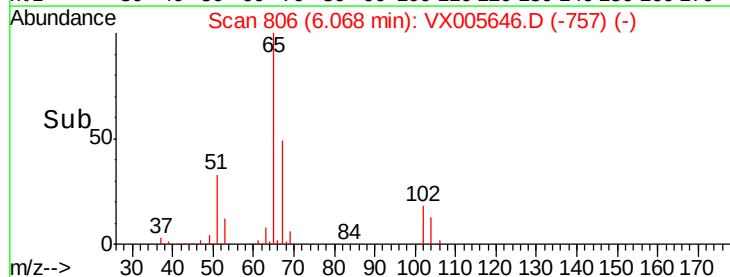
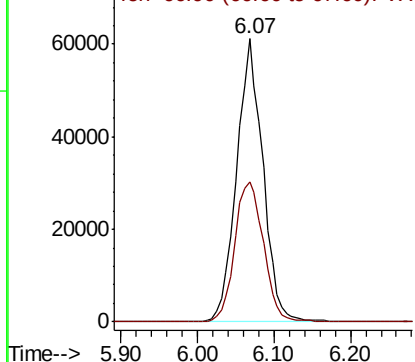


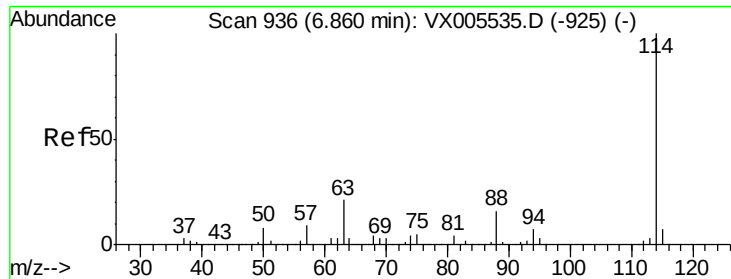
#33
1,2-Dichloroethane-d4
Concen: 51.856 ug/l
RT: 6.07 min Scan# 806
Delta R.T. 0.00 min
Lab File: VX005646.D
Acq: 27 Oct 2018 10:27

Tgt Ion: 65 Resp: 145832
Ion Ratio Lower Upper
65 100
67 54.2 0.0 105.0



Abundance Ion 64.90 (64.60 to 65.60): VX0
Ion 66.90 (66.60 to 67.60): VX0

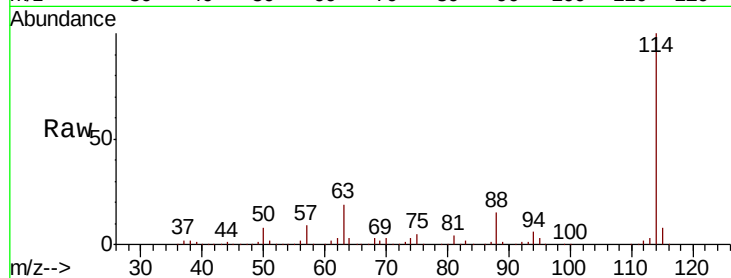




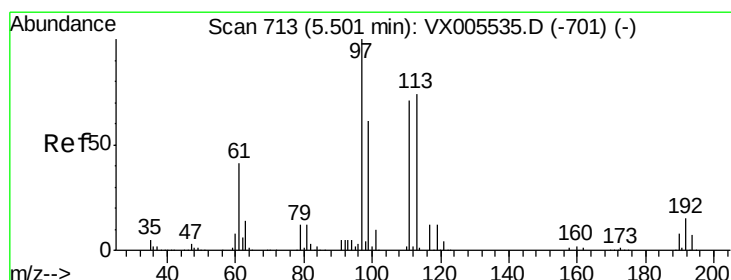
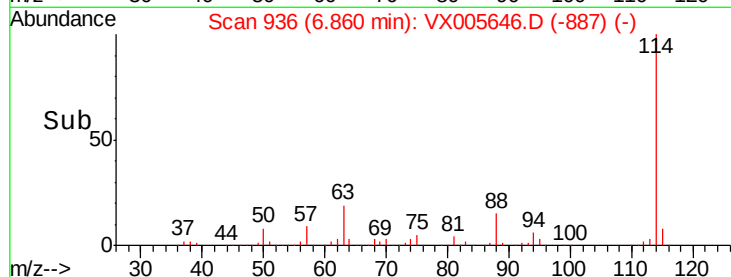
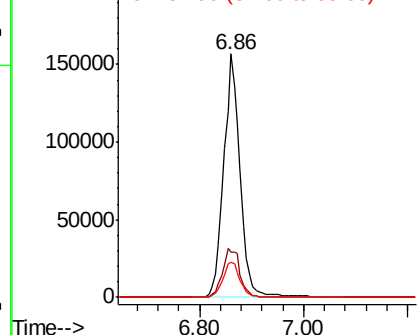
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX005646.D
 Acq: 27 Oct 2018 10:27

Instrument :
 MSVOA_X
 ClientSampleId :
 SU-02-102518-B

Tot Ion:114 Resp: 348995
 Ion Ratio Lower Upper
 114 100
 63 18.5 0.0 42.8
 88 14.6 0.0 31.2

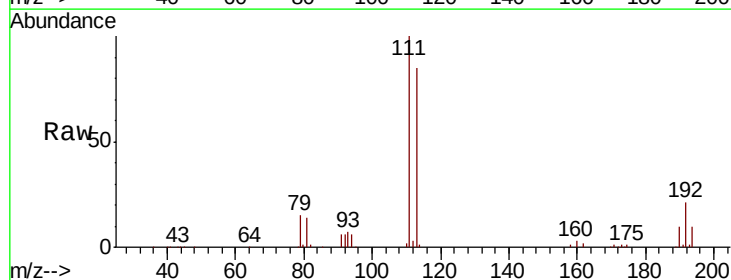


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VX0
 Ion 87.90 (87.60 to 88.60): VX0

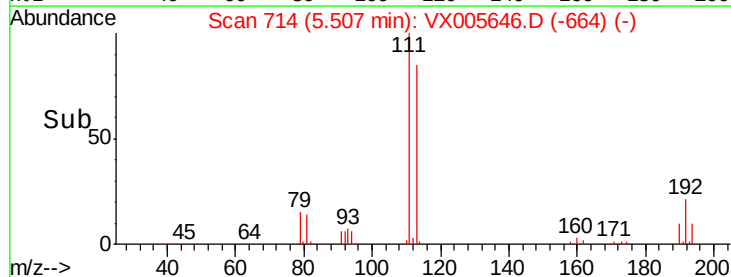
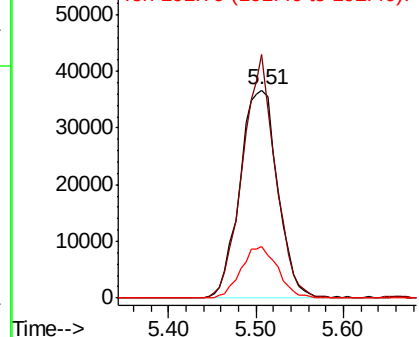


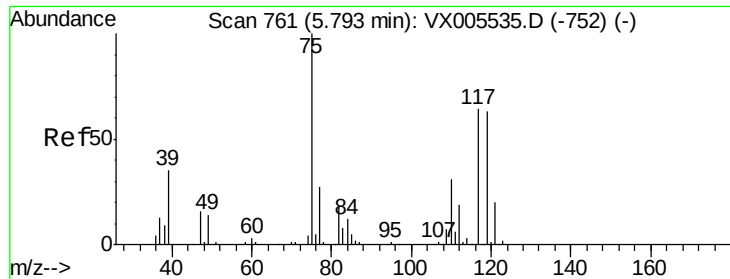
#35
 Dibromofluoromethane
 Concen: 46.811 ug/l
 RT: 5.51 min Scan# 714
 Delta R.T. 0.01 min
 Lab File: VX005646.D
 Acq: 27 Oct 2018 10:27

Tgt Ion:113 Resp: 110618
 Ion Ratio Lower Upper
 113 100
 111 101.4 82.3 123.5
 192 24.0 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

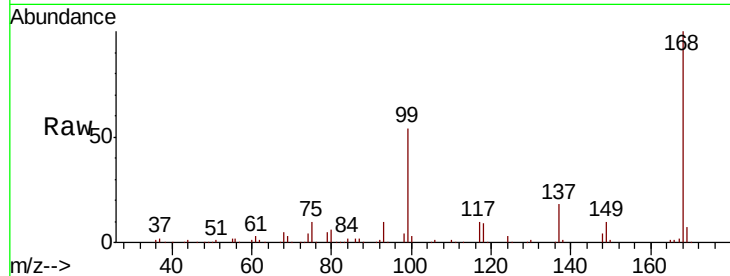




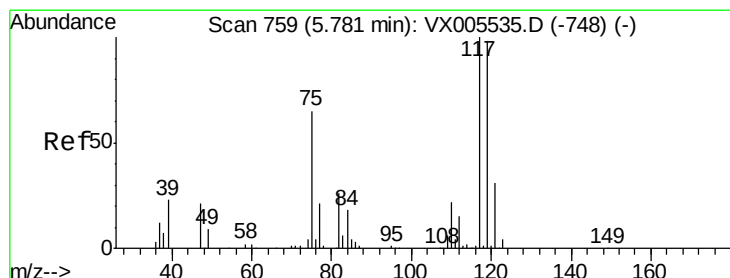
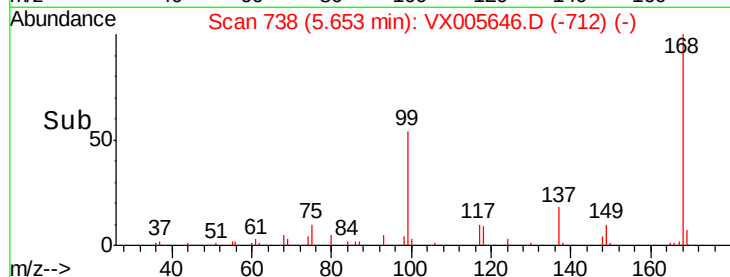
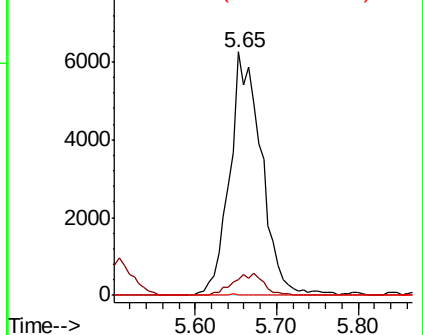
#36
 1,1-Dichloropropene
 Concen: 4.973 ug/l
 RT: 5.65 min Scan# 738
 Delta R.T. -0.14 min
 Lab File: VX005646.D
 Acq: 27 Oct 2018 10:27

Instrument :
 MSVOA_X
 ClientSampleId :
 SU-02-102518-B

Tot Ion	Ratio	Lower	Upper
75	100		
110	0.0	17.4	52.2#
77	0.1	25.8	38.6#

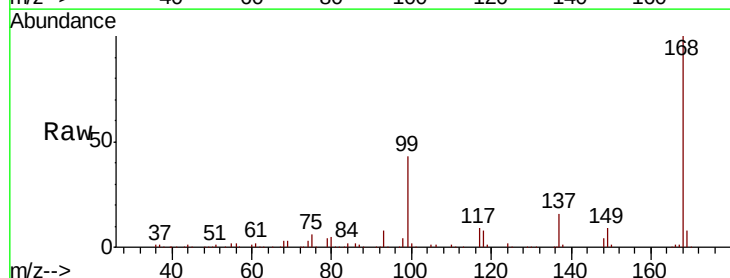


Abundance Ion 74.90 (74.60 to 75.60): VX0
 Ion 109.90 (109.60 to 110.60): V
 Ion 76.90 (76.60 to 77.60): VX0

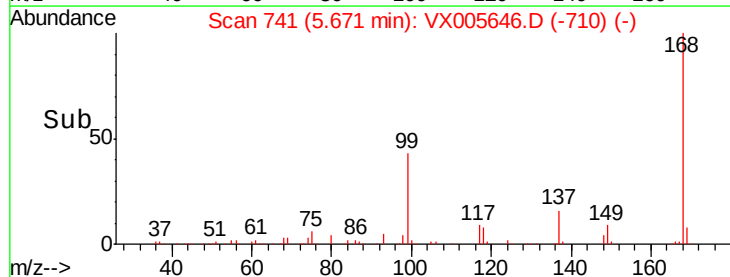
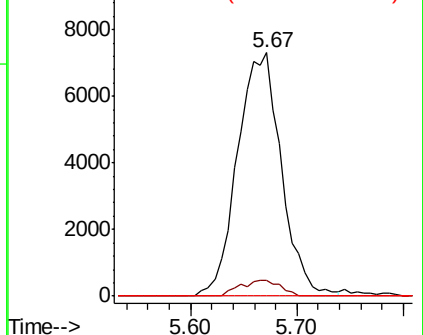


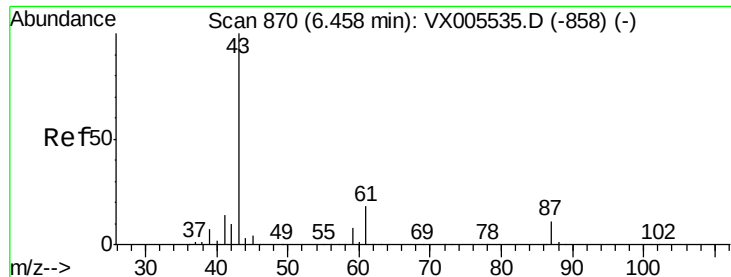
#38
 Carbon Tetrachloride
 Concen: 5.904 ug/l
 RT: 5.67 min Scan# 741
 Delta R.T. -0.11 min
 Lab File: VX005646.D
 Acq: 27 Oct 2018 10:27

Tgt Ion	Ratio	Lower	Upper
117	100		
119	6.3	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: 26.835 ug/l

RT: 6.45 min Scan# 869

Delta R.T. -0.01 min

Lab File: VX005646.D

Acq: 27 Oct 2018 10:27

Instrument :

MSVOA_X

ClientSampleId :

SU-02-102518-B

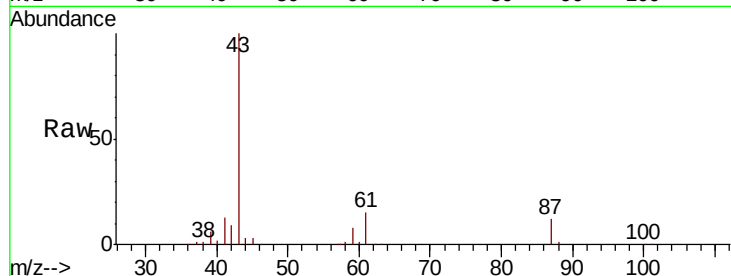
Tot Ion: 43 Resp: 173797

Ion Ratio Lower Upper

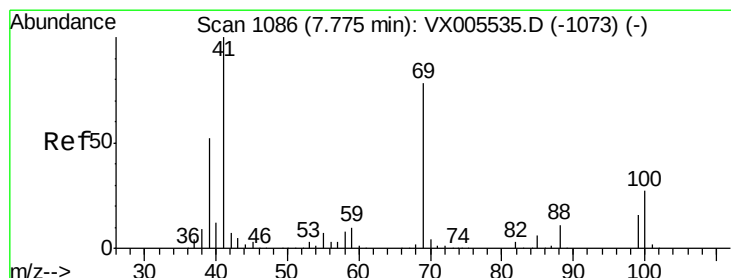
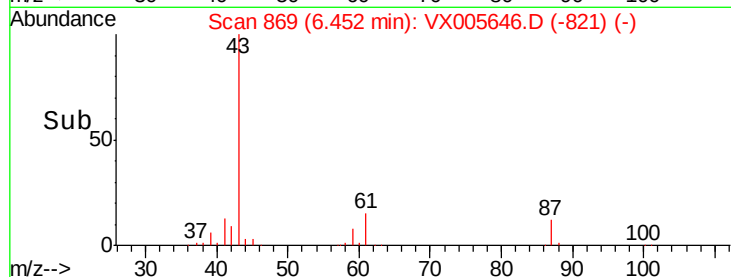
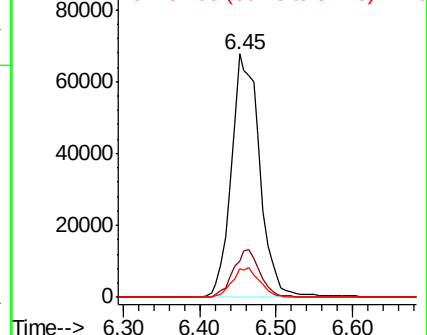
43 100

61 18.7 14.6 22.0

87 11.9 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: 2.184 ug/l

RT: 7.68 min Scan# 1071

Delta R.T. -0.09 min

Lab File: VX005646.D

Acq: 27 Oct 2018 10:27

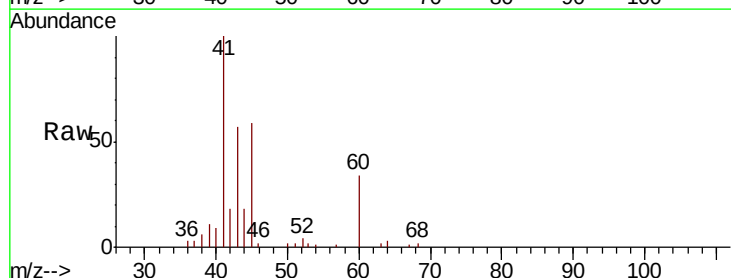
Tgt Ion: 41 Resp: 6892

Ion Ratio Lower Upper

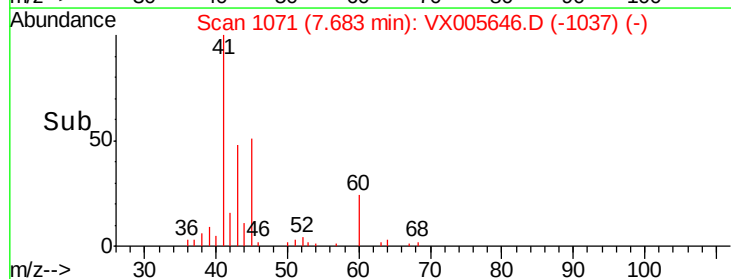
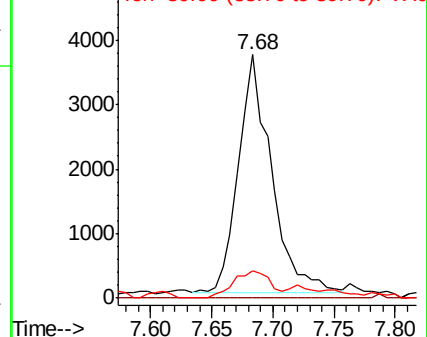
41 100

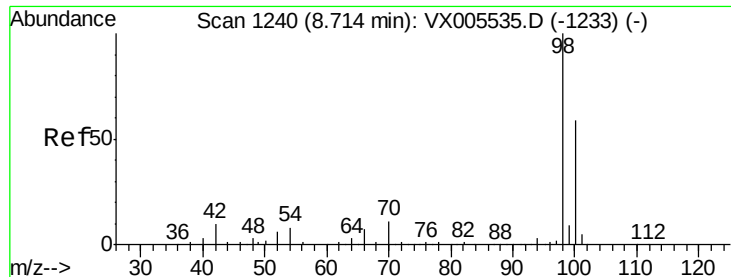
69 0.0 63.2 94.8#

39 12.9 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

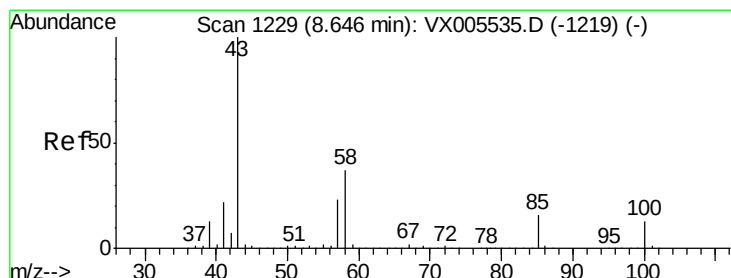
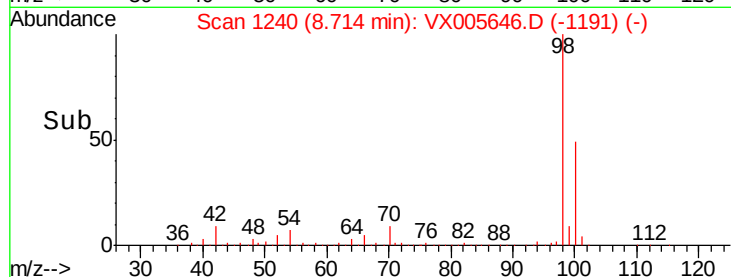
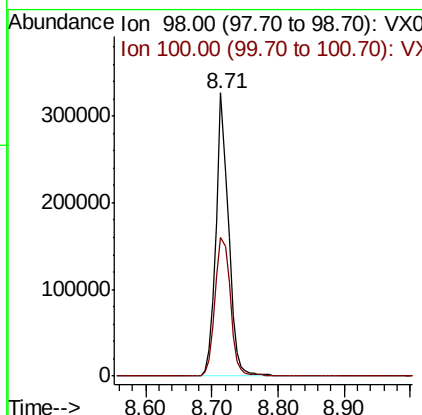
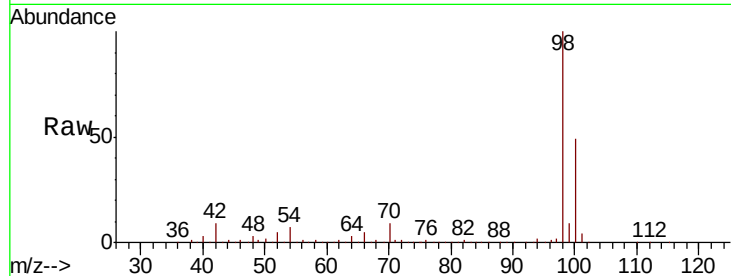




#50
Toluene-d8
Concen: 50.177 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX005646.D
Acq: 27 Oct 2018 10:27

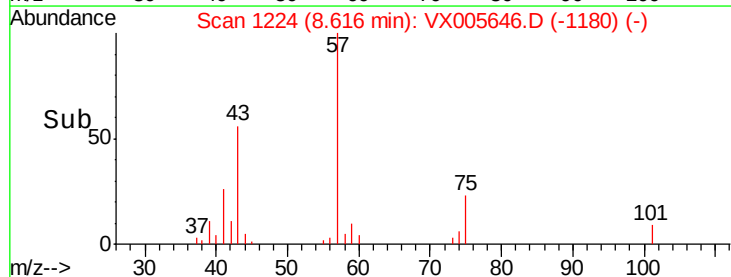
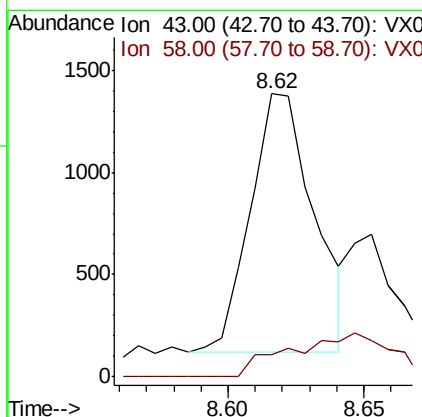
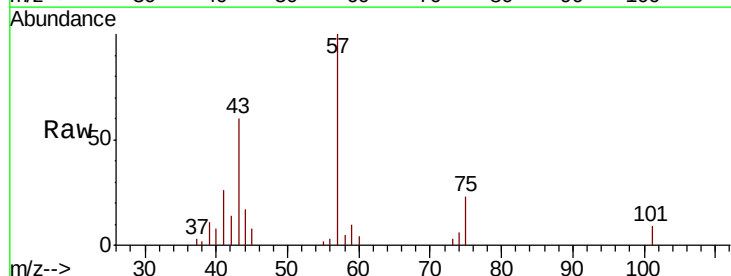
Instrument :
MSVOA_X
ClientSampleId :
SU-02-102518-B

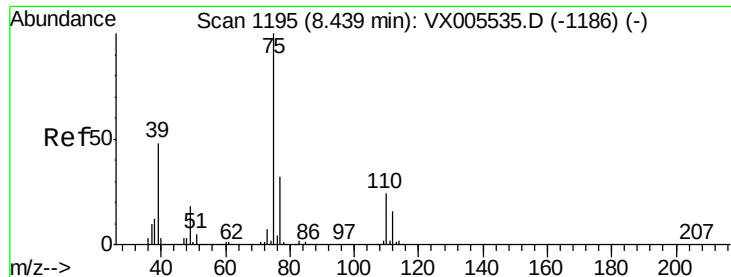
Tot Ion: 98 Resp: 426060
Ion Ratio Lower Upper
98 100
100 60.2 51.3 76.9



#51
4-Methyl-2-Pentanone
Concen: 0.473 ug/l
RT: 8.62 min Scan# 1224
Delta R.T. -0.03 min
Lab File: VX005646.D
Acq: 27 Oct 2018 10:27

Tgt Ion: 43 Resp: 2058
Ion Ratio Lower Upper
43 100
58 0.0 29.7 44.5#





#54

cis-1,3-Dichloropropene

Concen: 0.231 ug/l

RT: 8.62 min Scan# 1224

Delta R.T. 0.18 min

Lab File: VX005646.D

Acq: 27 Oct 2018 10:27

Instrument :

MSVOA_X

ClientSampleId :

SU-02-102518-B

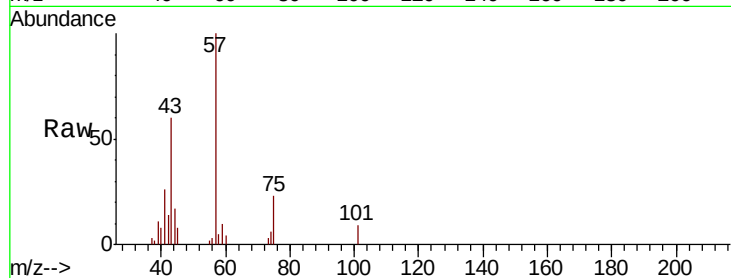
Tot Ion: 75 Resp: 879

Ion Ratio Lower Upper

75 100

77 0.0 25.2 37.8#

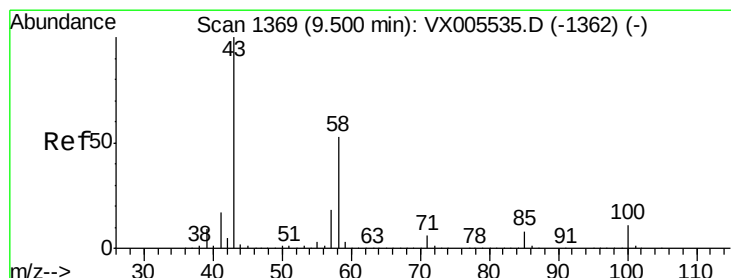
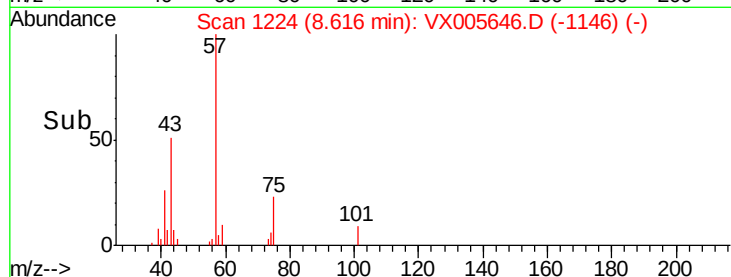
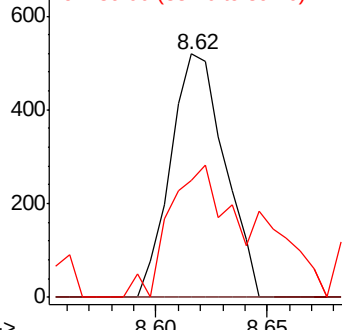
39 48.0 38.2 57.2



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



#59

2-Hexanone

Concen: 2.433 ug/l

RT: 9.54 min Scan# 1376

Delta R.T. 0.04 min

Lab File: VX005646.D

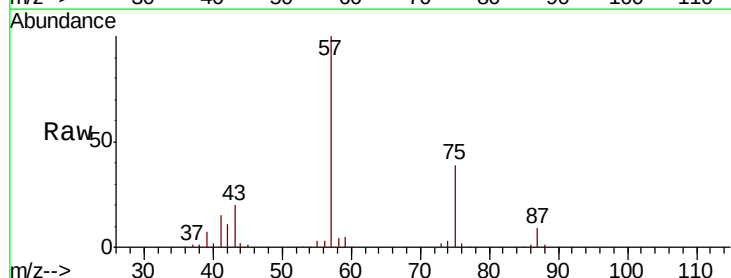
Acq: 27 Oct 2018 10:27

Tgt Ion: 43 Resp: 8349

Ion Ratio Lower Upper

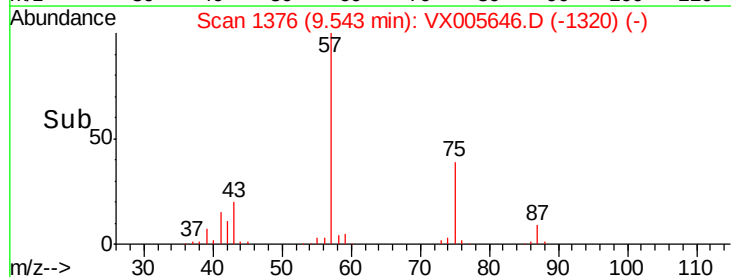
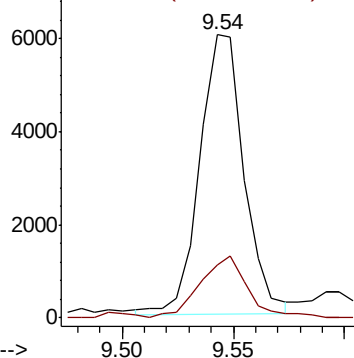
43 100

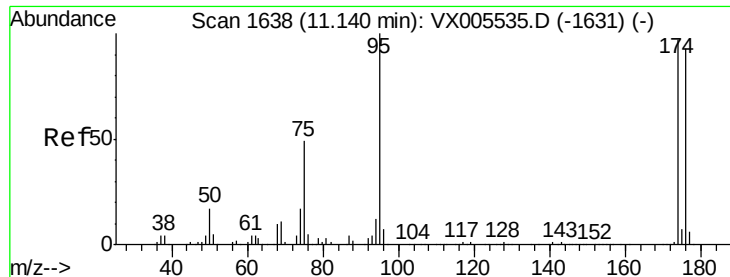
58 23.9 25.9 77.8#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

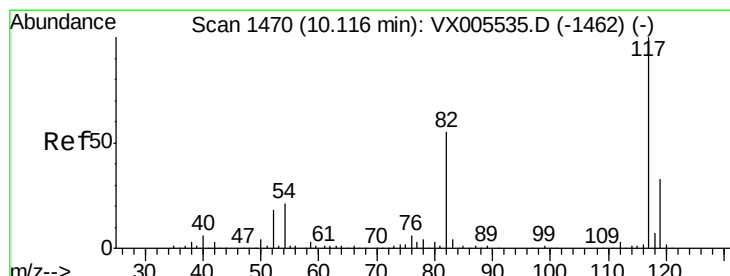
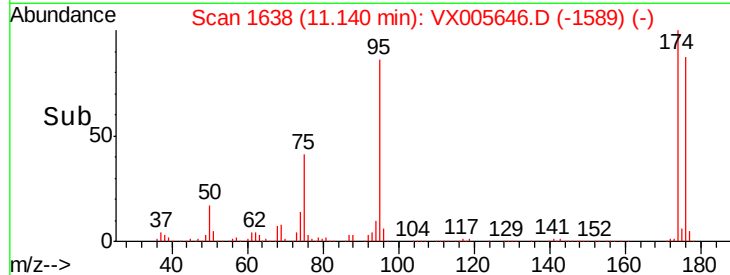
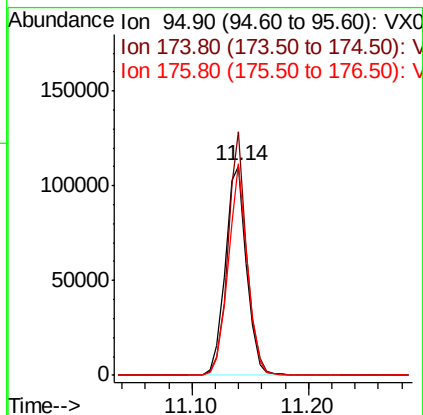
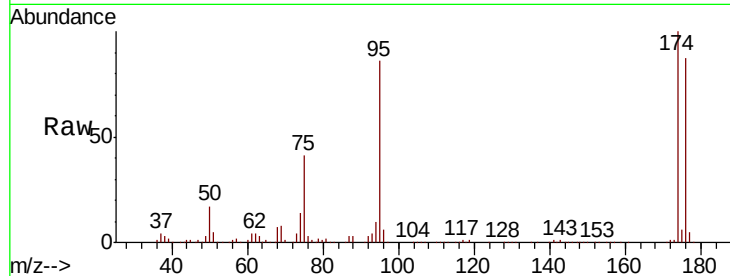




#62
4-Bromofluorobenzene
Concen: 43.298 ug/l
RT: 11.14 min Scan# 1638
Delta R.T. 0.00 min
Lab File: VX005646.D
Acq: 27 Oct 2018 10:27

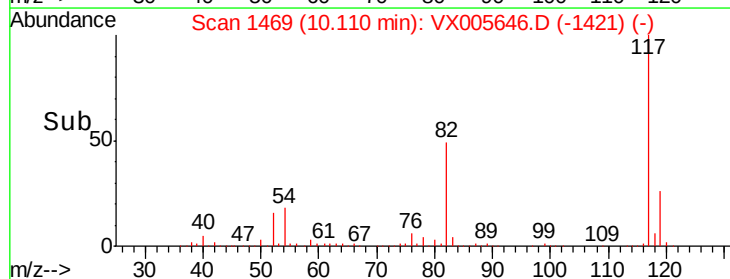
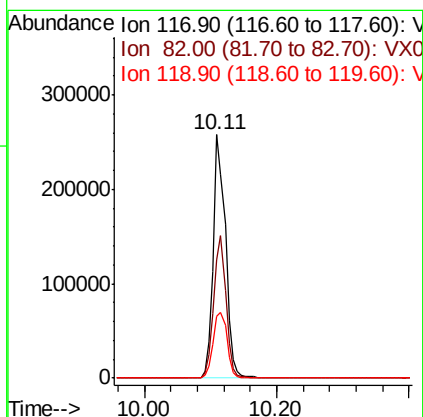
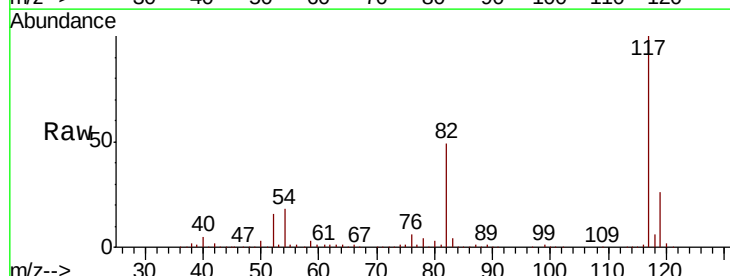
Instrument :
MSVOA_X
ClientSampleId :
SU-02-102518-B

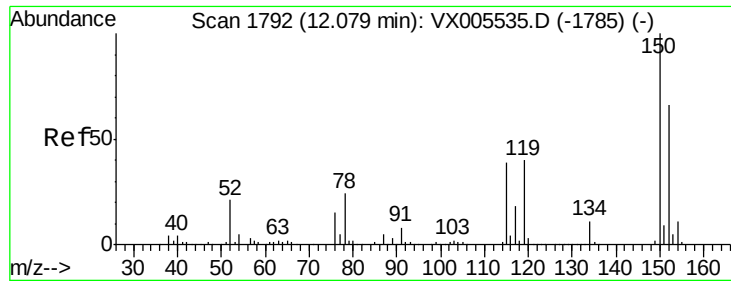
Tot Ion: 95 Resp: 138841
Ion Ratio Lower Upper
95 100
174 103.0 0.0 184.4
176 92.0 0.0 177.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. -0.01 min
Lab File: VX005646.D
Acq: 27 Oct 2018 10:27

Tgt Ion: 117 Resp: 329088
Ion Ratio Lower Upper
117 100
82 48.8 44.1 66.1
119 25.7 26.2 39.2#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX005646.D

Acq: 27 Oct 2018 10:27

Instrument :

MSVOA_X

ClientSampleId :

SU-02-102518-B

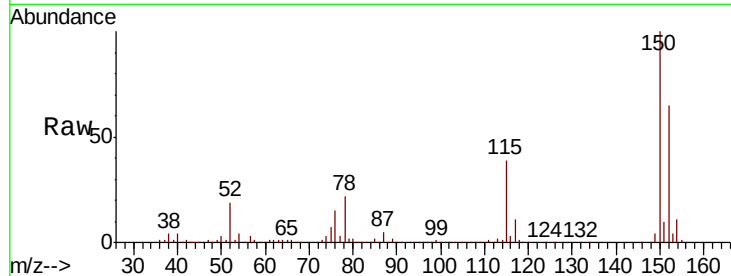
Tot Ion:152 Resp: 175189

Ion Ratio Lower Upper

152 100

115 57.7 39.4 118.1

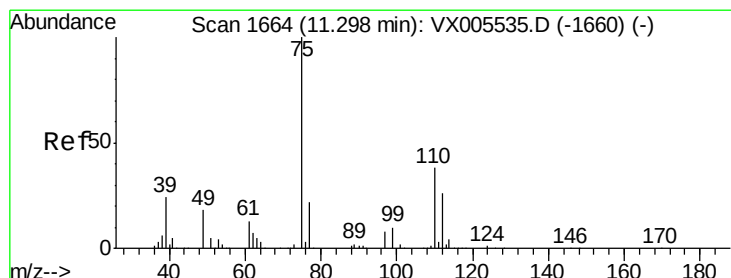
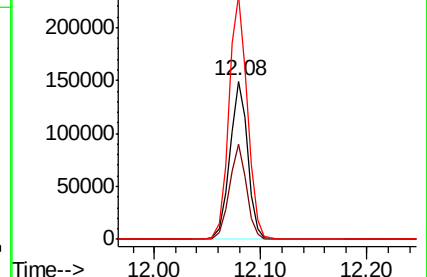
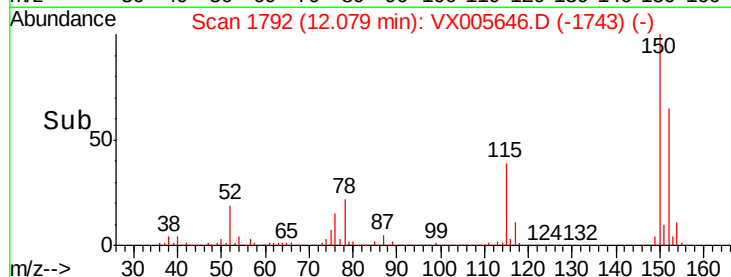
150 158.4 0.0 346.4



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: 19.086 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.16 min

Lab File: VX005646.D

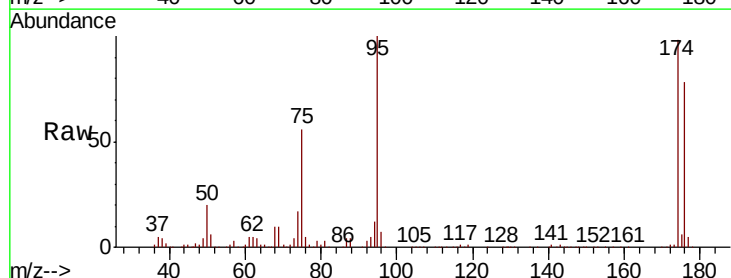
Acq: 27 Oct 2018 10:27

Tgt Ion: 75 Resp: 70843

Ion Ratio Lower Upper

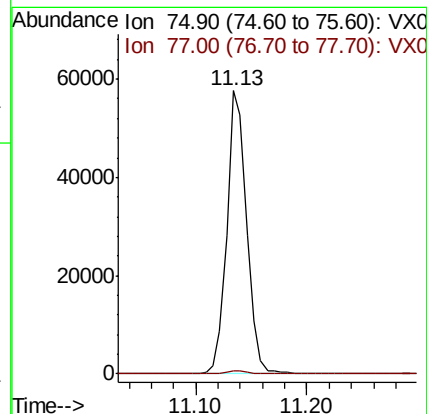
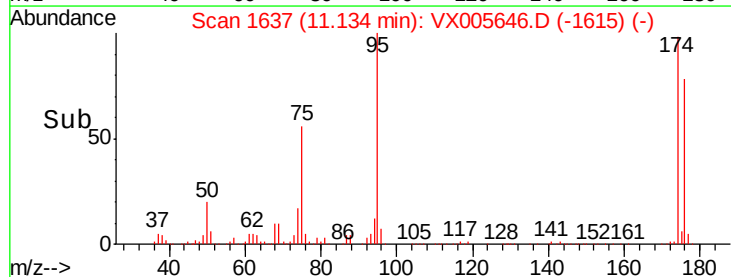
75 100

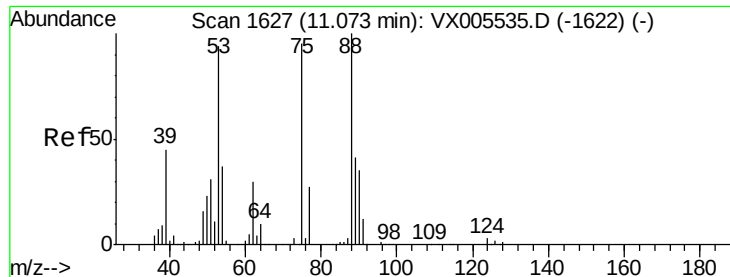
77 1.2 20.5 61.6#



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: 62.363 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.06 min

Lab File: VX005646.D

Acq: 27 Oct 2018 10:27

Instrument :

MSVOA_X

ClientSampleId :

SU-02-102518-B

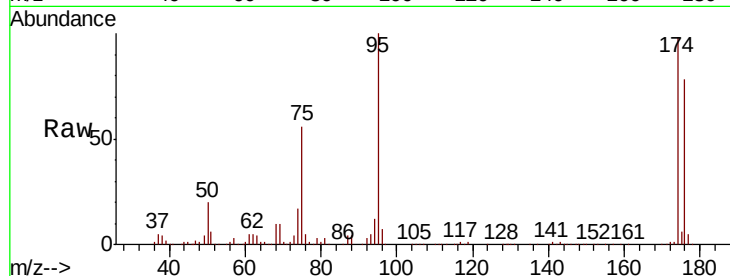
Tot Ion: 75 Resp: 70843

Ion Ratio Lower Upper

75 100

53 0.2 80.2 120.2#

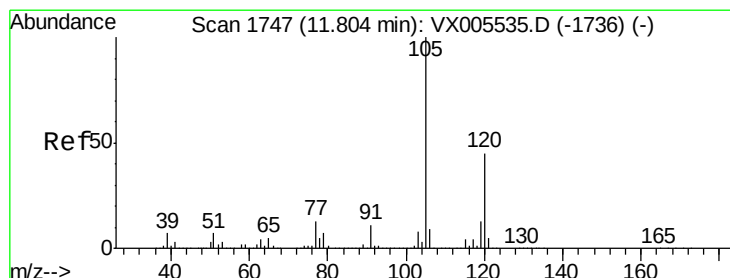
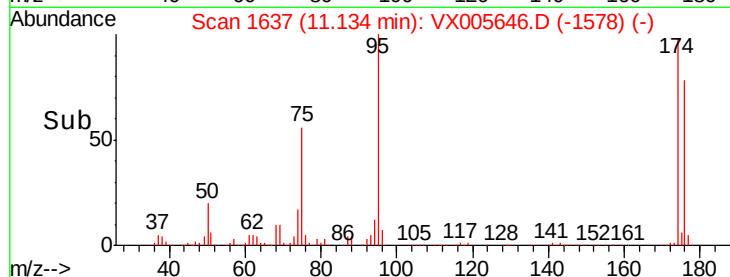
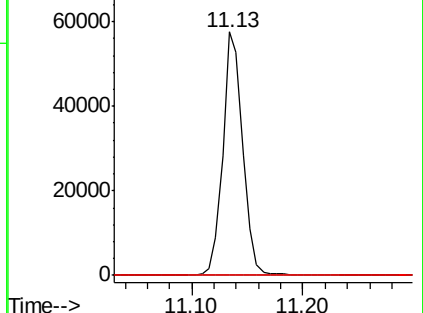
89 0.0 39.8 59.8#



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: 0.207 ug/l

RT: 11.81 min Scan# 1748

Delta R.T. 0.01 min

Lab File: VX005646.D

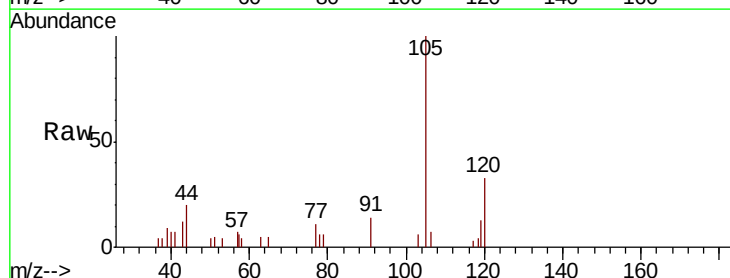
Acq: 27 Oct 2018 10:27

Tgt Ion: 105 Resp: 1922

Ion Ratio Lower Upper

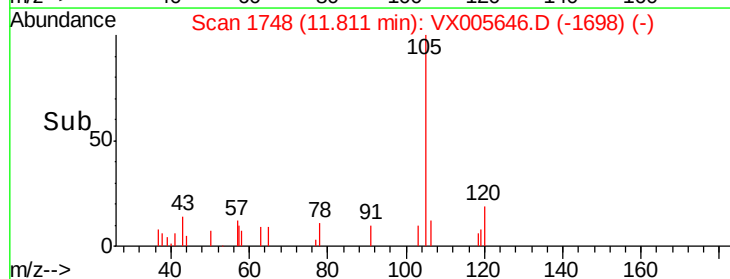
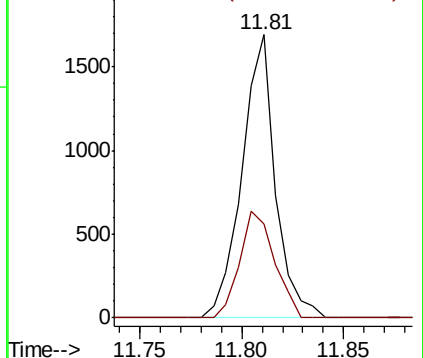
105 100

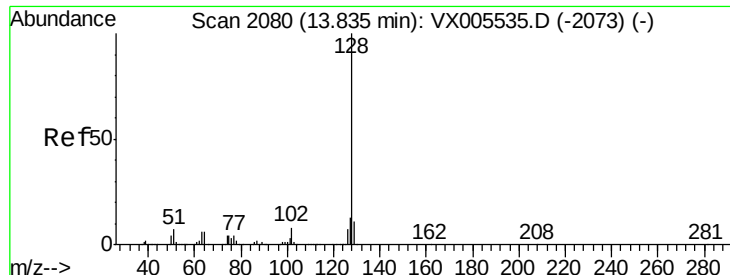
120 39.1 22.4 67.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#95

Naphthalene

Concen: 8.841 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX005646.D

Acq: 27 Oct 2018 10:27

Instrument :

MSVOA_X

ClientSampleId :

SU-02-102518-B

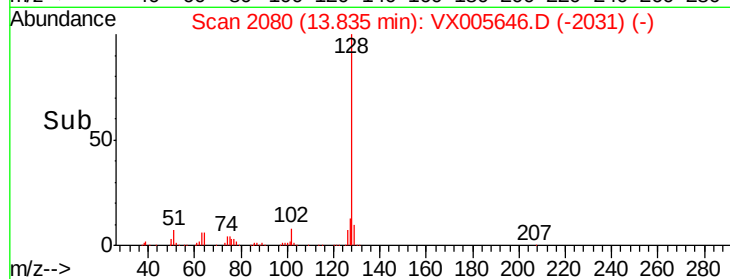
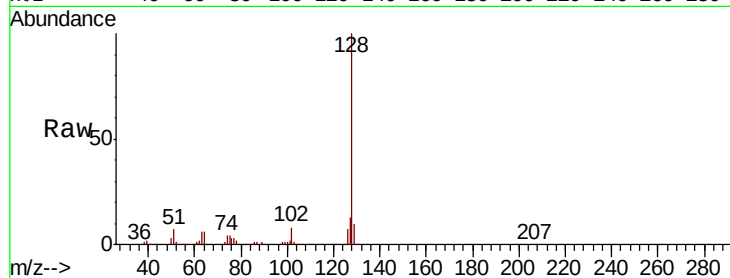
Tot Ion:128 Resp: 105781

Ion Ratio Lower Upper

128 100

127 12.7 10.4 15.6

129 10.8 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

