

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX072720\
 Data File : VX017632.D
 Acq On : 27 Jul 2020 21:12
 Operator : JC/SP
 Sample : L3421-02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
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Quant Time: Jul 28 01:37:52 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072320W.M
 Quant Title : SW846 8260
 QLast Update : Fri Jul 24 05:48:09 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	519128	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.84	114	860038	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	918840	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	492965	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.04	65	346024	51.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.78%	
35) Dibromofluoromethane	5.47	113	287756	50.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.06%	
50) Toluene-d8	8.70	98	1073216	51.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.44%	
62) 4-Bromofluorobenzene	11.12	95	475759	57.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	114.58%	

Target Compounds

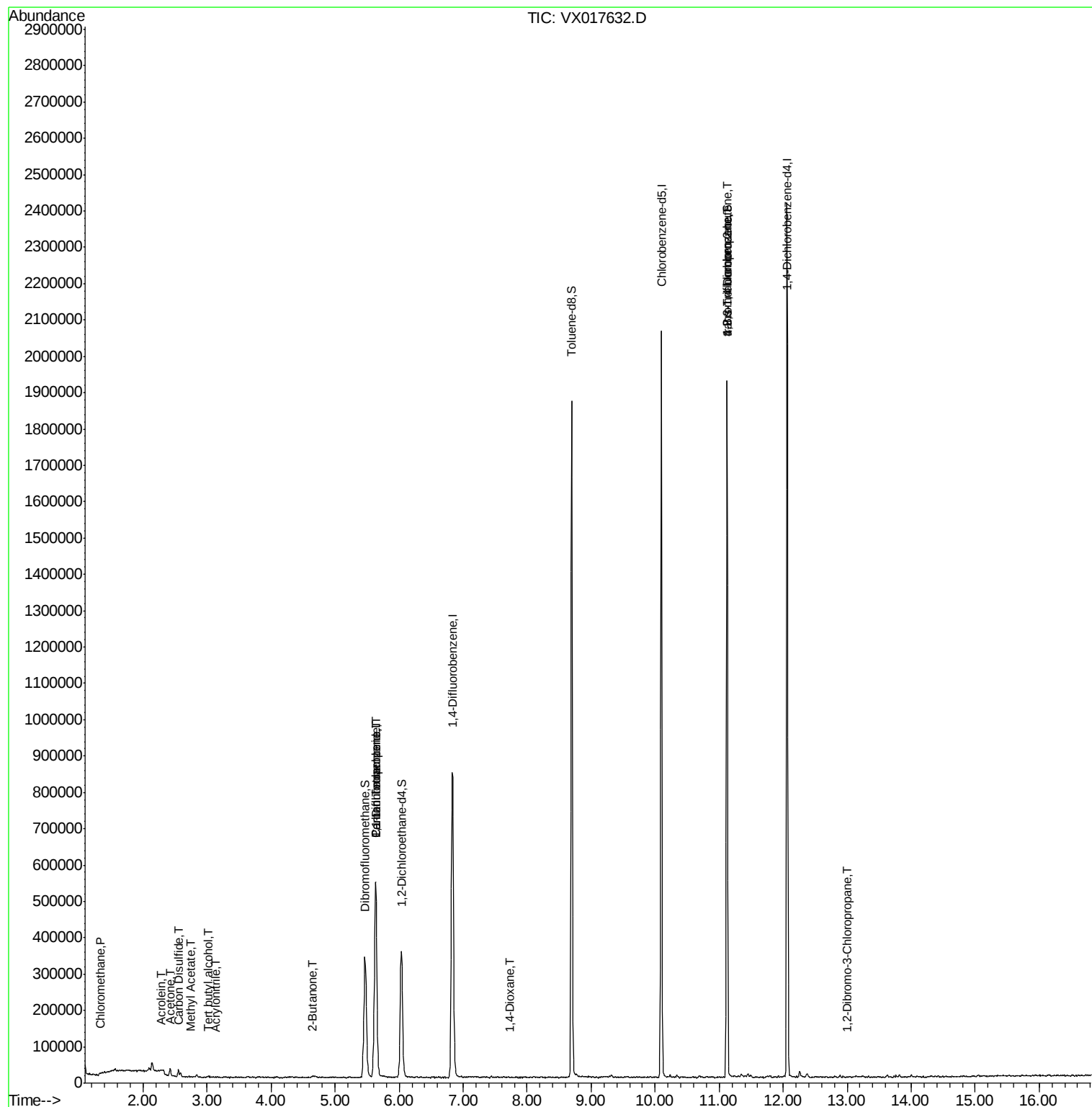
					Qvalue	
2) Dichlorodifluoromethane	1.18	85	328	Below Cal	#	1
3) Chloromethane	1.32	50	1904	0.661	ug/l #	73
5) Bromomethane	1.64	94	383	Below Cal		92
6) Chloroethane	1.73	64	526	Below Cal	#	78
8) Diethyl Ether	2.26	74	387	Below Cal		96
11) Tert butyl alcohol	3.02	59	3358	2.389	ug/l #	42
13) Acrolein	2.27	56	764	4.849	ug/l #	35
15) Acrylonitrile	3.13	53	789	0.260	ug/l #	68
16) Acetone	2.42	43	21374	7.282	ug/l	94
17) Carbon Disulfide	2.55	76	22342	1.371	ug/l	96
18) Methyl Acetate	2.74	43	1782	0.258	ug/l #	64
20) Methylene Chloride	2.84	84	3942	Below Cal	#	80
25) 2-Butanone	4.65	43	2682	0.643	ug/l #	1
36) 1,1-Dichloropropene	5.63	75	37753	4.577	ug/l #	51
38) Carbon Tetrachloride	5.63	117	51193	5.111	ug/l #	18
49) 1,4-Dioxane	7.73	88	177	1.251	ug/l #	1
76) 1,2,3-Trichloropropane	11.12	75	240259	23.693	ug/l #	34
81) trans-1,4-Dichloro-2-buten	11.12	75	240259	59.701	ug/l #	11
92) 1,2-Dibromo-3-Chloropropan	13.00	75	394	2.702	ug/l #	5

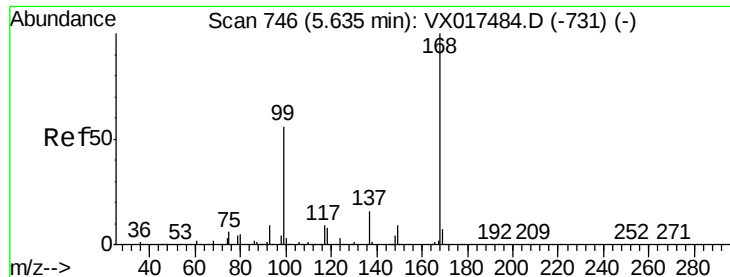
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Jul 24 05:48:09 2020
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.00 min

Lab File: VX017632.D

Acq: 27 Jul 2020 21:12

Instrument :

MSVOA_X

ClientSampleId :

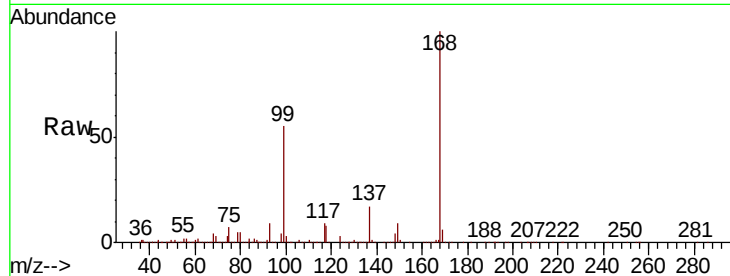
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Tot Ion:168 Resp: 519128

Ion Ratio Lower Upper

168 100

99 55.1 43.4 65.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

200000

150000

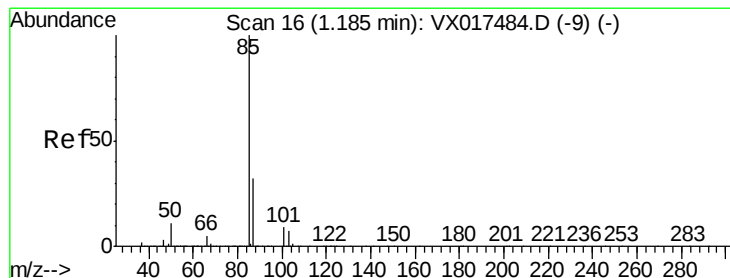
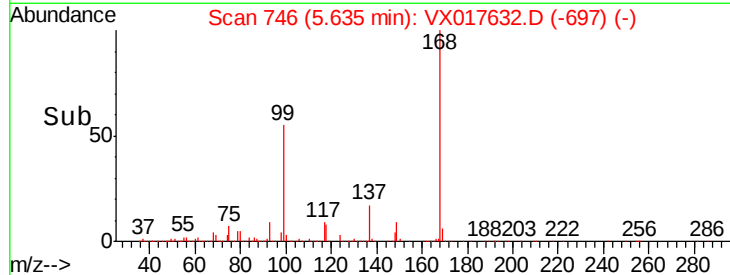
100000

50000

0

5.50 5.60 5.70

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.18 min Scan# 16

Delta R.T. 0.00 min

Lab File: VX017632.D

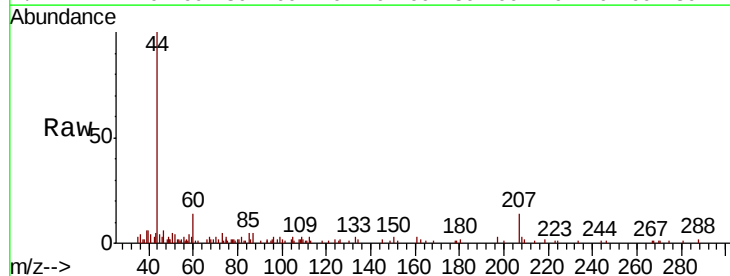
Acq: 27 Jul 2020 21:12

Tgt Ion: 85 Resp: 328

Ion Ratio Lower Upper

85 100

87 100.0 16.1 48.3#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.18

400

300

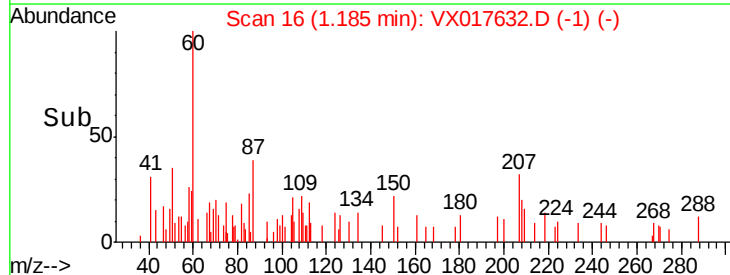
200

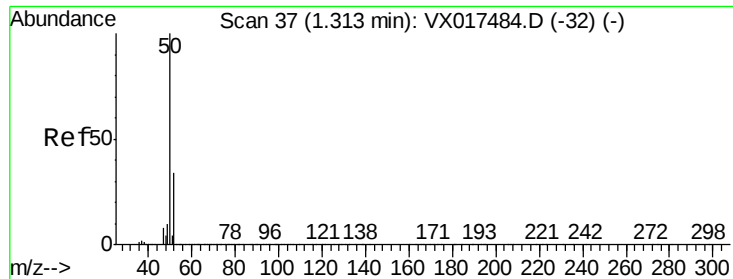
100

0

1.16 1.18 1.20 1.22

Time-->





#3

Chloromethane

Concen: 0.661 ug/l

RT: 1.32 min Scan# 38

Delta R.T. 0.01 min

Lab File: VX017632.D

Acq: 27 Jul 2020 21:12

Instrument :

MSVOA_X

ClientSampled :

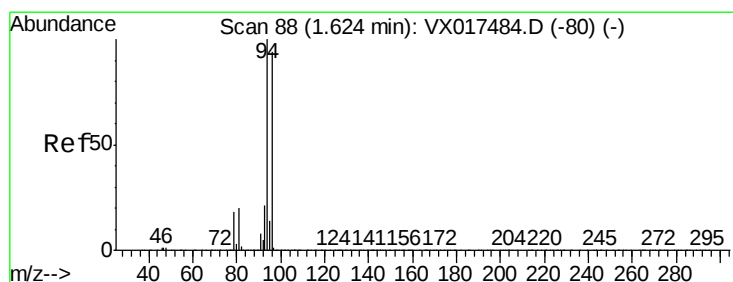
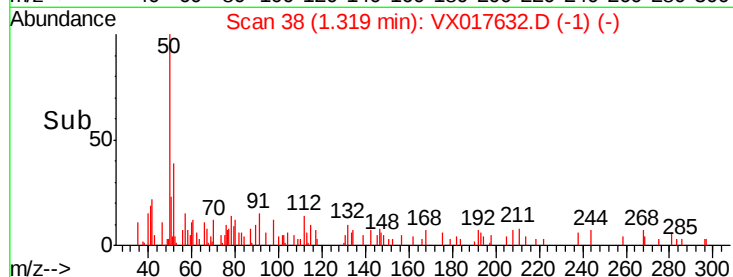
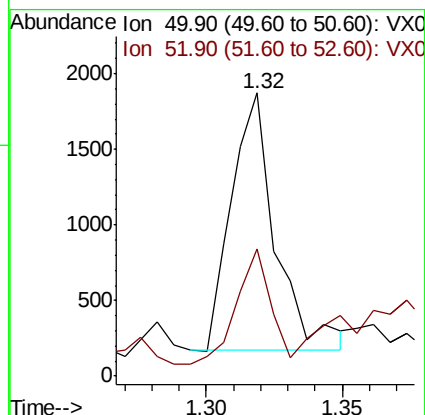
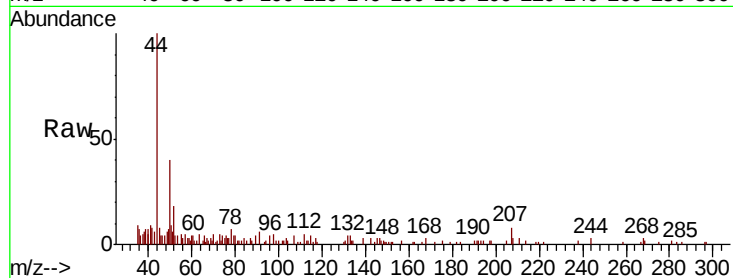
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Tot Ion: 50 Resp: 1904

Ion Ratio Lower Upper

50 100

52 47.3 25.9 38.9#



#5

Bromomethane

Concen: Below Cal

RT: 1.64 min Scan# 90

Delta R.T. 0.01 min

Lab File: VX017632.D

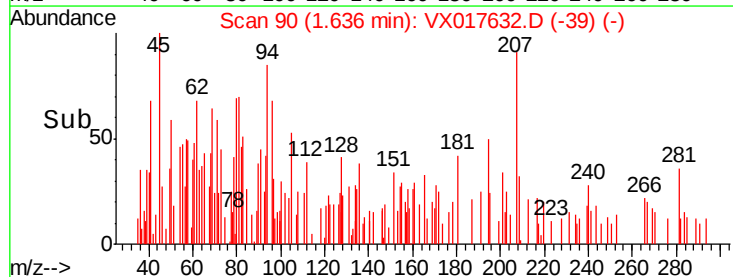
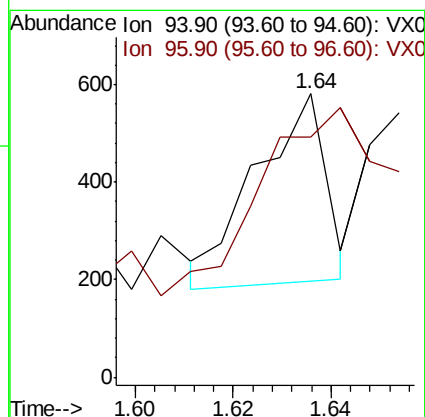
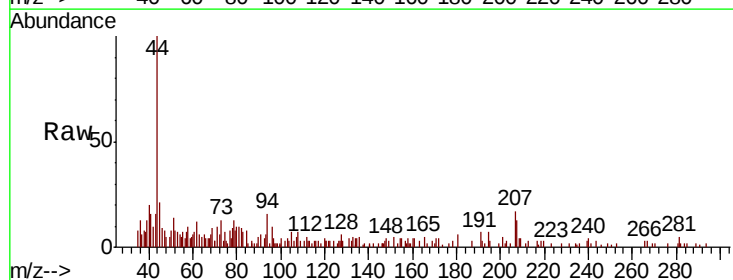
Acq: 27 Jul 2020 21:12

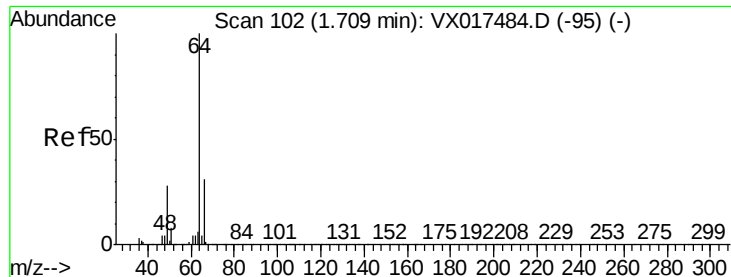
Tgt Ion: 94 Resp: 383

Ion Ratio Lower Upper

94 100

96 85.1 74.1 111.1





#6

Chloroethane

Concen: Below Cal

RT: 1.73 min Scan# 105

Delta R.T. 0.02 min

Lab File: VX017632.D

Acq: 27 Jul 2020 21:12

Instrument :

MSVOA_X

ClientSampled :

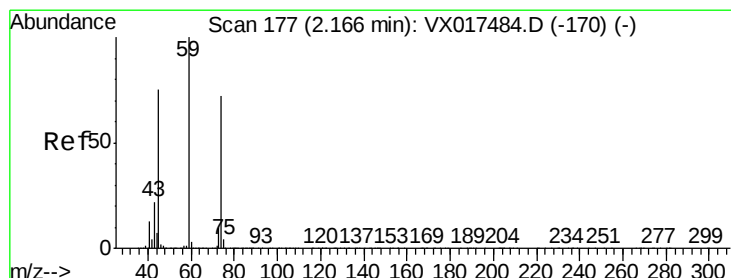
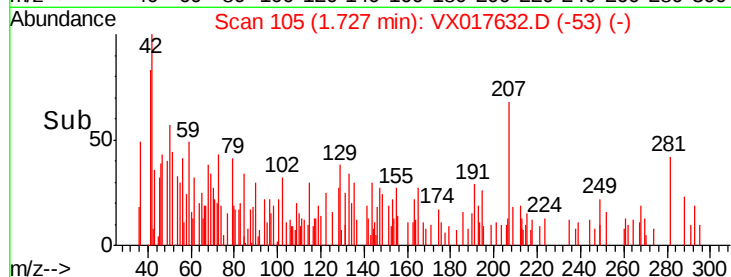
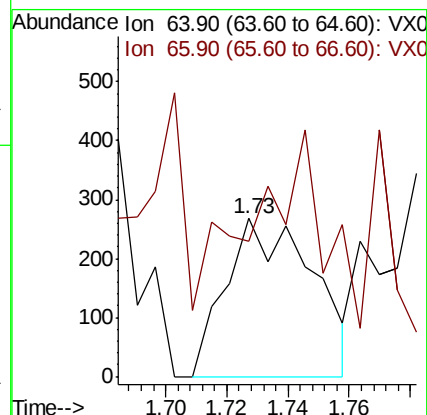
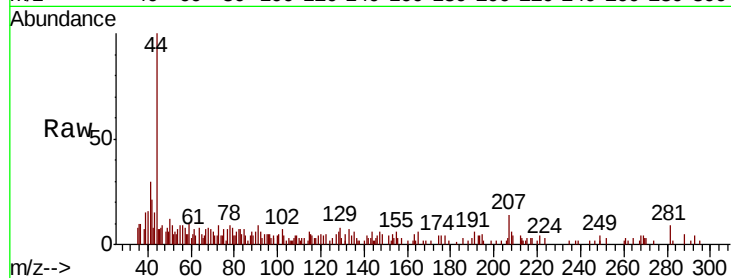
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Tot Ion: 64 Resp: 526

Ion Ratio Lower Upper

64 100

66 43.3 24.9 37.3#



#8

Diethyl Ether

Concen: Below Cal

RT: 2.26 min Scan# 192

Delta R.T. 0.09 min

Lab File: VX017632.D

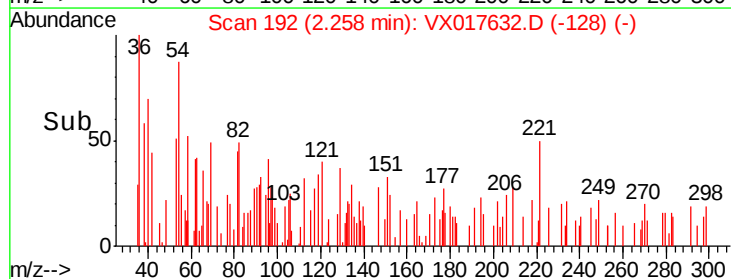
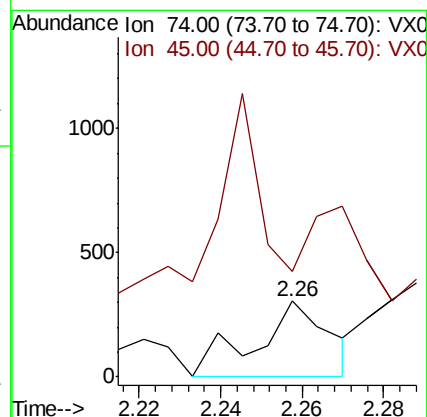
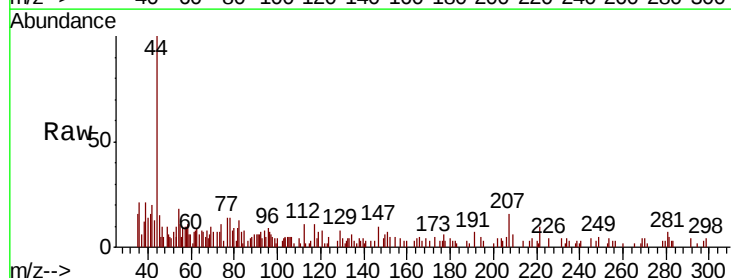
Acq: 27 Jul 2020 21:12

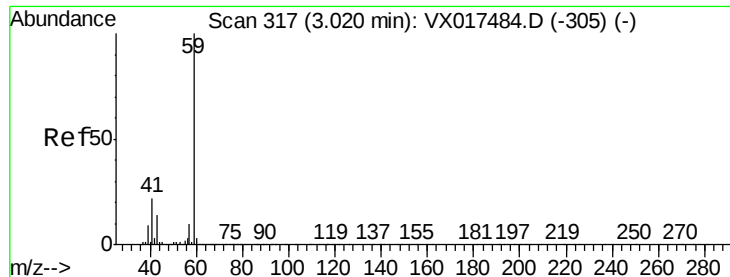
Tgt Ion: 74 Resp: 387

Ion Ratio Lower Upper

74 100

45 97.2 50.8 152.5

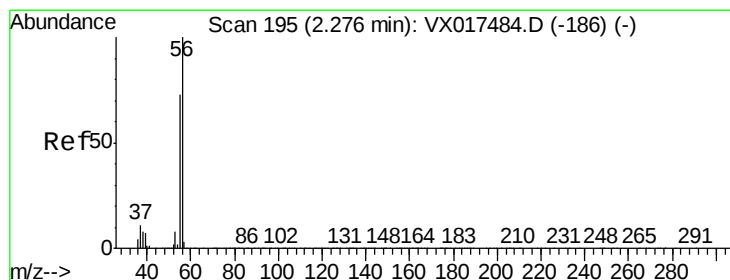
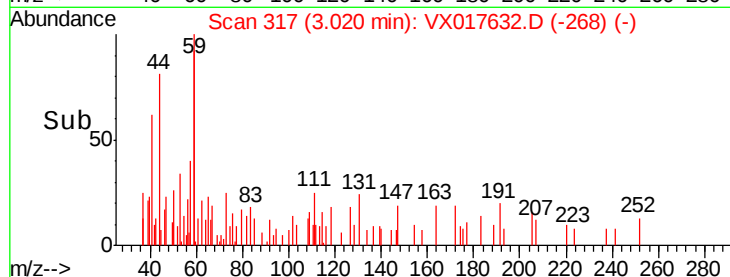
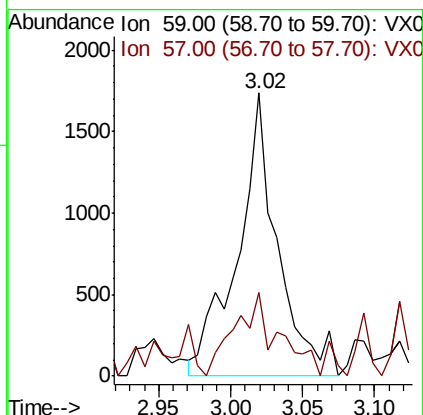
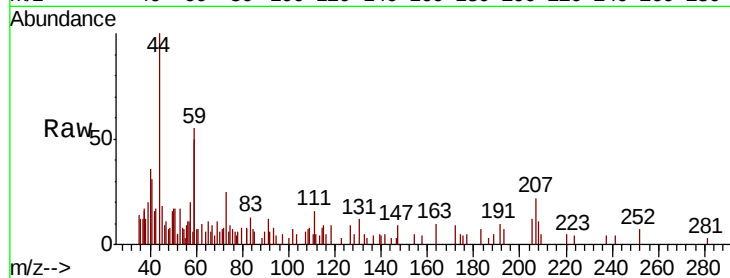




#11
Tert butyl alcohol
Concen: 2.389 ug/l
RT: 3.02 min Scan# 317
Delta R.T. -0.00 min
Lab File: VX017632.D
Acq: 27 Jul 2020 21:12

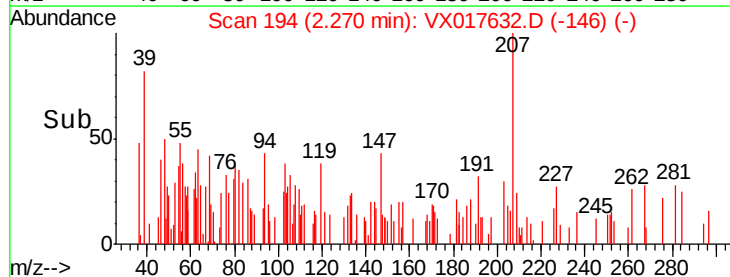
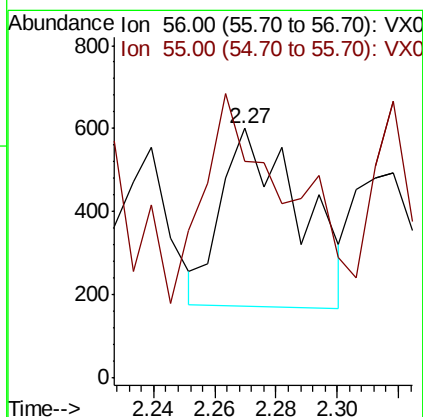
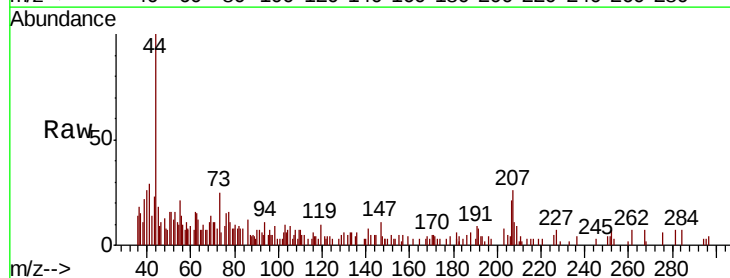
Instrument :
MSVOA_X
ClientSampled :
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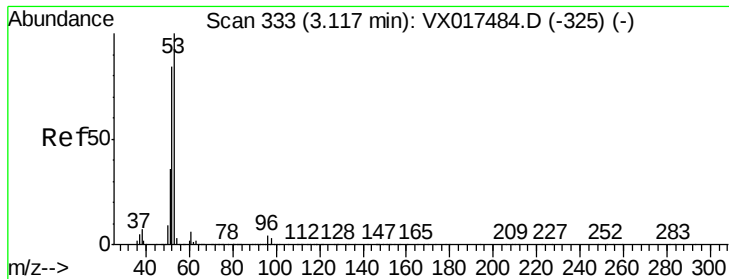
Tot Ion: 59 Resp: 3358
Ion Ratio Lower Upper
59 100
57 32.4 8.6 12.8#



#13
Acrolein
Concen: 4.849 ug/l
RT: 2.27 min Scan# 194
Delta R.T. -0.01 min
Lab File: VX017632.D
Acq: 27 Jul 2020 21:12

Tgt Ion: 56 Resp: 764
Ion Ratio Lower Upper
56 100
55 125.8 57.4 86.2#





#15

Acrylonitrile

Concen: 0.260 ug/l

RT: 3.13 min Scan# 335

Delta R.T. 0.01 min

Lab File: VX017632.D

Acq: 27 Jul 2020 21:12

Instrument :

MSVOA_X

ClientSampleId :

FIELD-BLANK

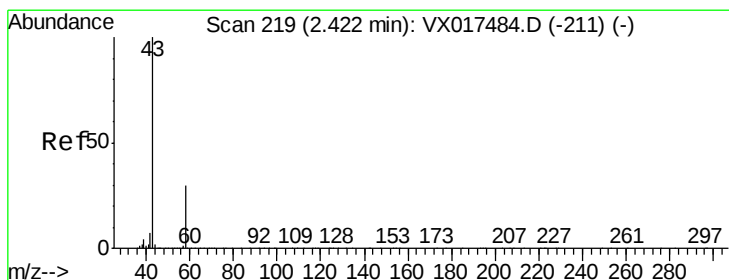
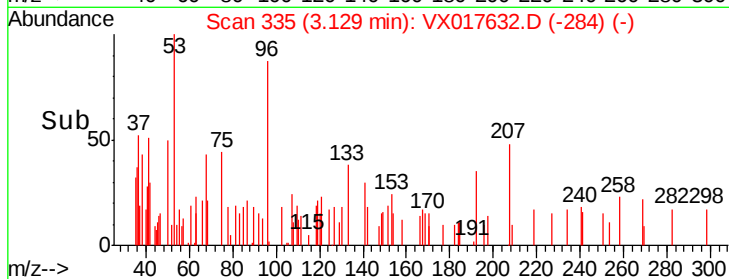
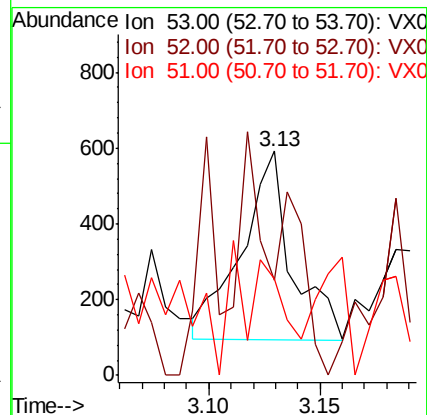
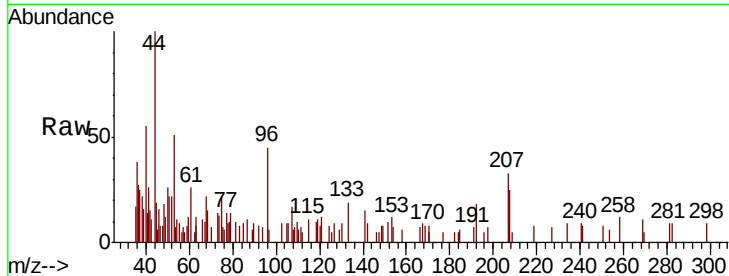
Tot Ion: 53 Resp: 789

Ion Ratio Lower Upper

53 100

52 56.1 66.6 99.8#

51 58.0 29.4 44.2#



#16

Acetone

Concen: 7.282 ug/l

RT: 2.42 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX017632.D

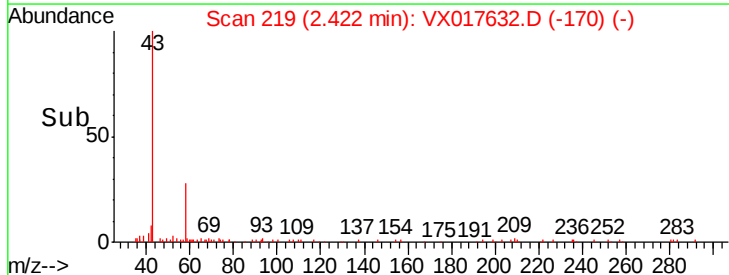
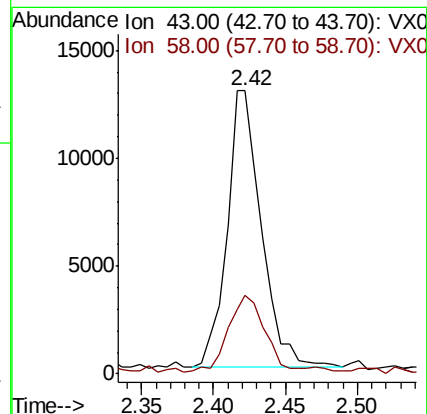
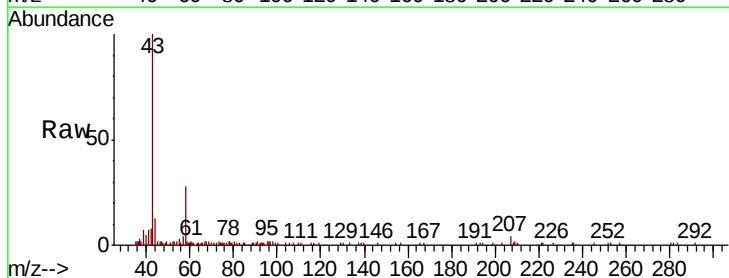
Acq: 27 Jul 2020 21:12

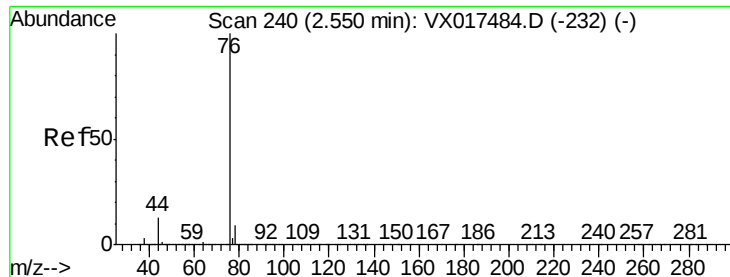
Tgt Ion: 43 Resp: 21374

Ion Ratio Lower Upper

43 100

58 27.2 24.2 36.4





#17

Carbon Disulfide

Concen: 1.371 ug/l

RT: 2.55 min Scan# 240

Delta R.T. -0.00 min

Lab File: VX017632.D

Acq: 27 Jul 2020 21:12

Instrument :

MSVOA_X

ClientSampleId :

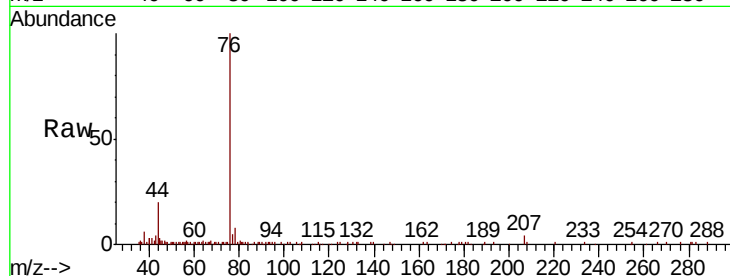
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Tot Ion: 76 Resp: 22342

Ion Ratio Lower Upper

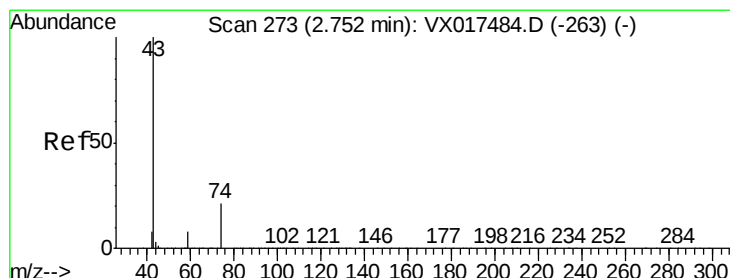
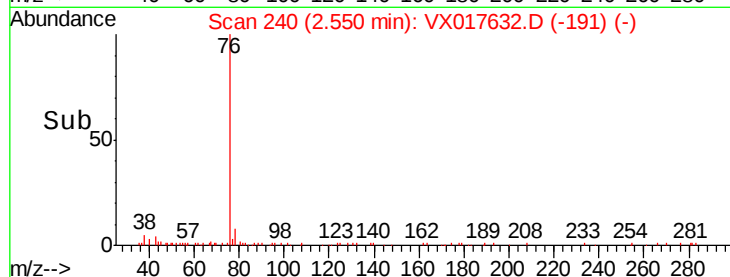
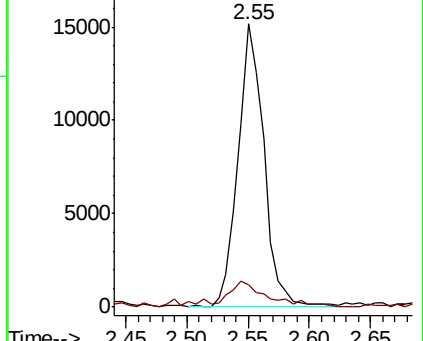
76 100

78 8.1 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#18

Methyl Acetate

Concen: 0.258 ug/l

RT: 2.74 min Scan# 271

Delta R.T. -0.01 min

Lab File: VX017632.D

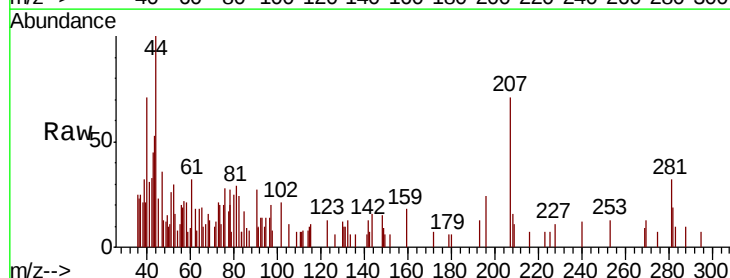
Acq: 27 Jul 2020 21:12

Tgt Ion: 43 Resp: 1782

Ion Ratio Lower Upper

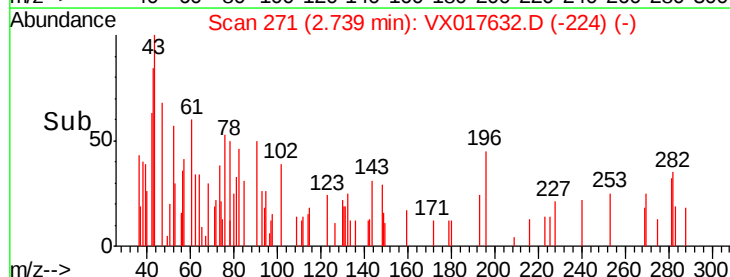
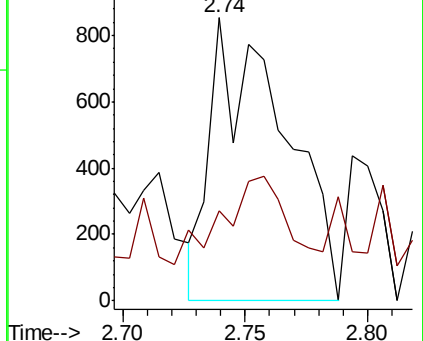
43 100

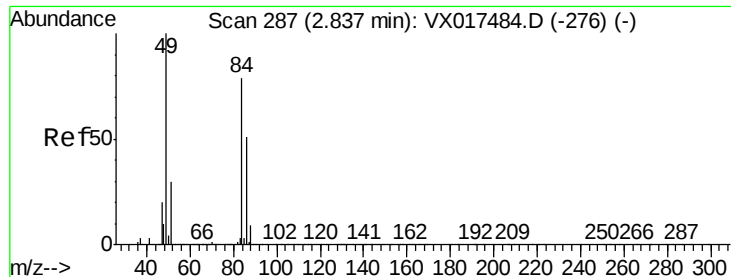
74 39.1 17.5 26.3#



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

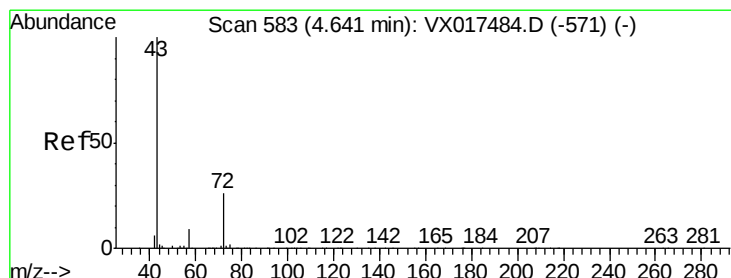
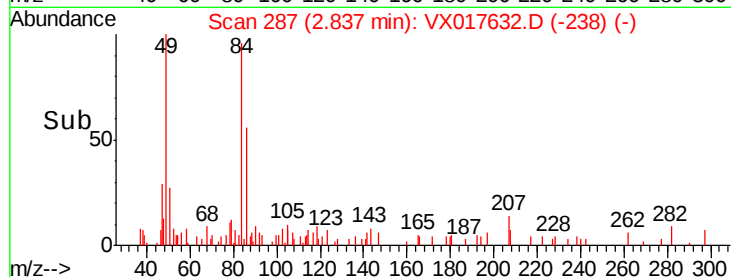
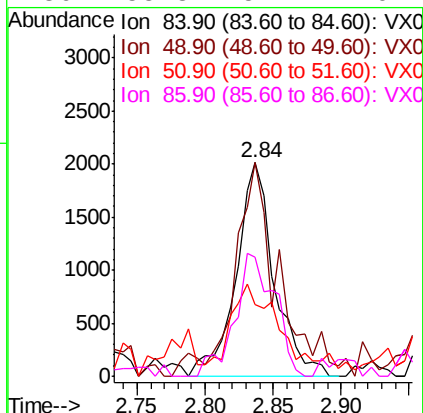
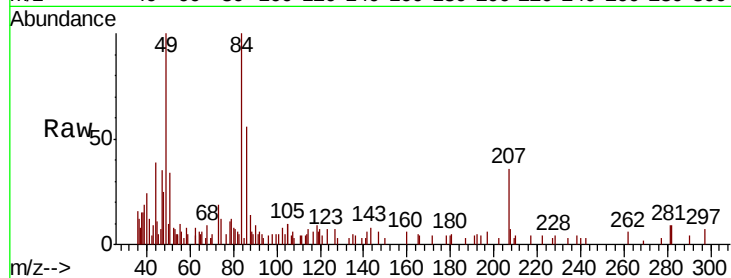




#20
Methvlene Chloride
Concen: Below Cal
RT: 2.84 min Scan# 287
Delta R.T. 0.00 min
Lab File: VX017632.D
Acq: 27 Jul 2020 21:12

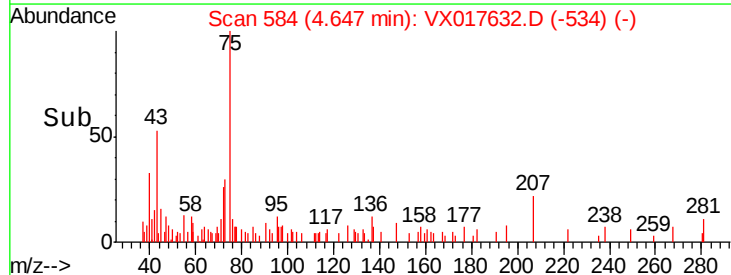
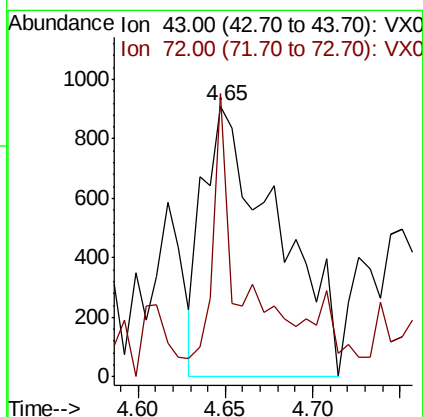
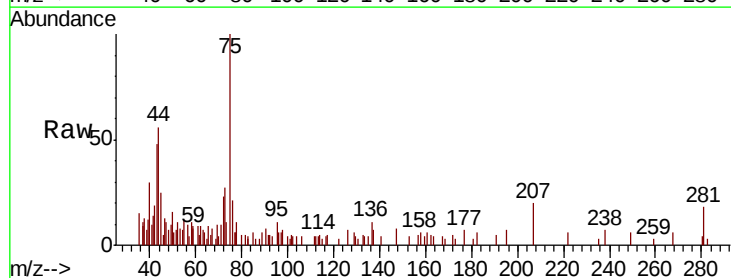
Instrument :
MSVOA_X
ClientSampleId :
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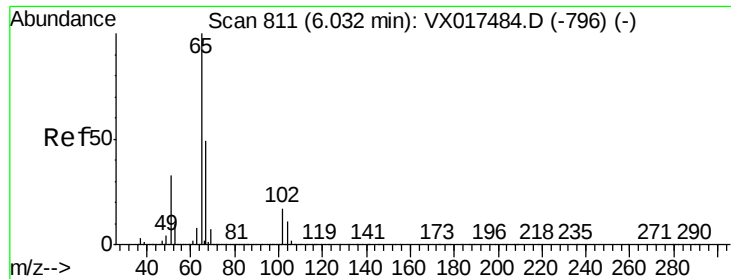
Tot Ion: 84 Resp: 3942
Ion Ratio Lower Upper
84 100
49 94.7 100.3 150.5#
51 30.2 30.5 45.7#
86 55.8 51.1 76.7



#25
2-Butanone
Concen: 0.643 ug/l
RT: 4.65 min Scan# 584
Delta R.T. 0.01 min
Lab File: VX017632.D
Acq: 27 Jul 2020 21:12

Tgt Ion: 43 Resp: 2682
Ion Ratio Lower Upper
43 100
72 97.9 19.0 28.4#

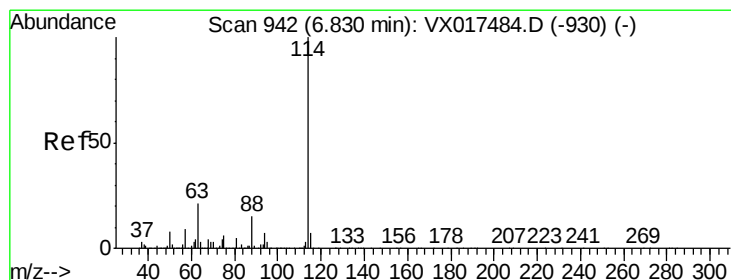
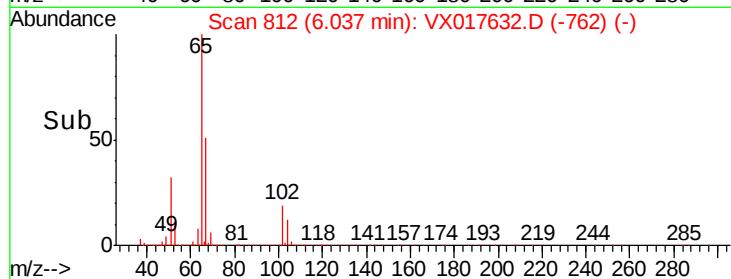
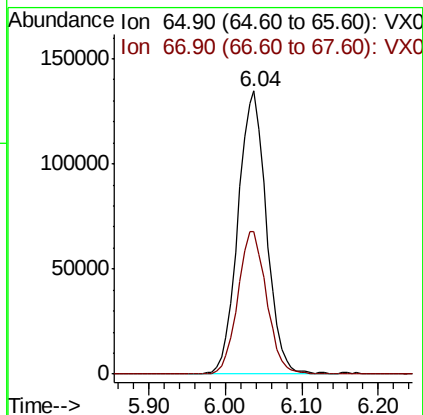
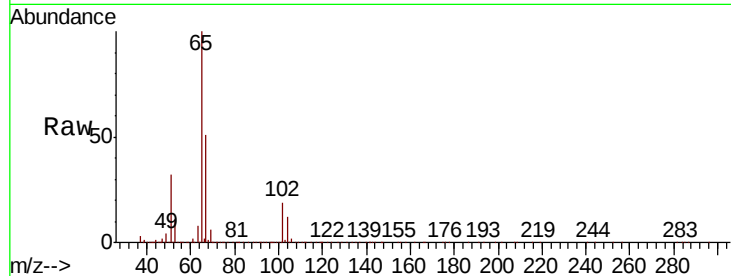




#33
 1,2-Dichloroethane-d4
 Concen: 51.890 ug/l
 RT: 6.04 min Scan# 812
 Delta R.T. 0.01 min
 Lab File: VX017632.D
 Acq: 27 Jul 2020 21:12

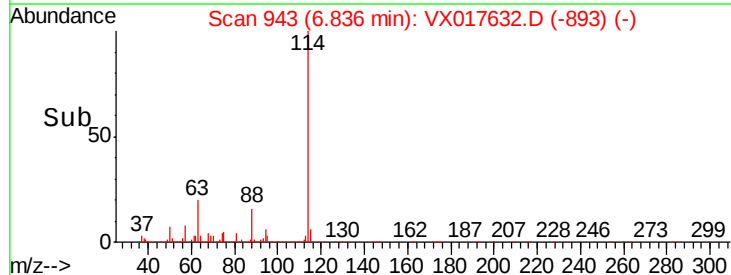
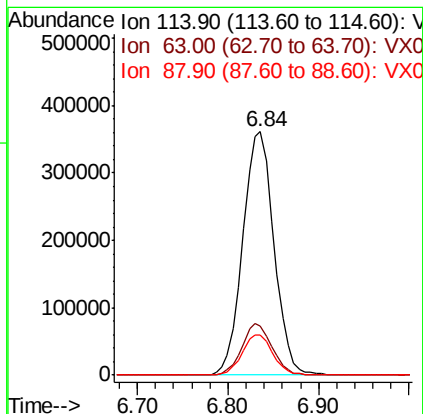
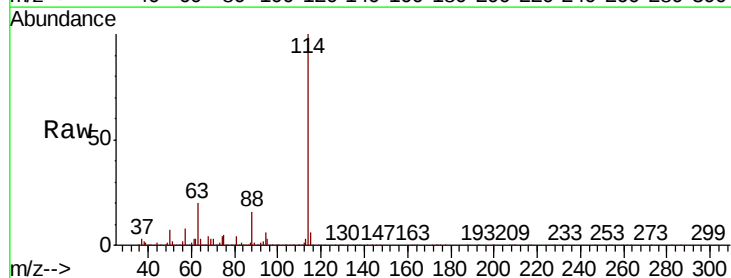
Instrument :
 MSVOA_X
 ClientSampleId :
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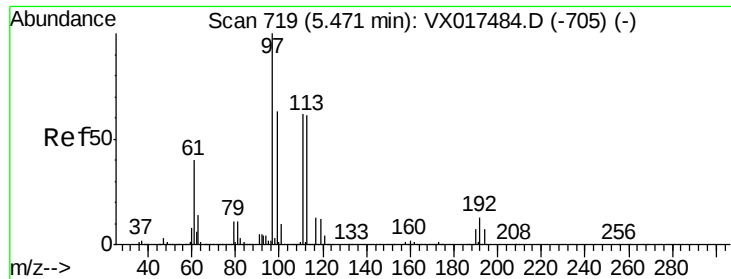
Tot Ion: 65 Resp: 346024
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 102.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.84 min Scan# 943
 Delta R.T. 0.01 min
 Lab File: VX017632.D
 Acq: 27 Jul 2020 21:12

Tgt Ion: 114 Resp: 860038
 Ion Ratio Lower Upper
 114 100
 63 20.1 0.0 40.6
 88 16.2 0.0 33.4





#35

Dibromofluoromethane

Concen: 50.027 ug/l

RT: 5.47 min Scan# 719

Delta R.T. -0.00 min

Lab File: VX017632.D

Acq: 27 Jul 2020 21:12

Instrument :

MSVOA_X

ClientSampled :

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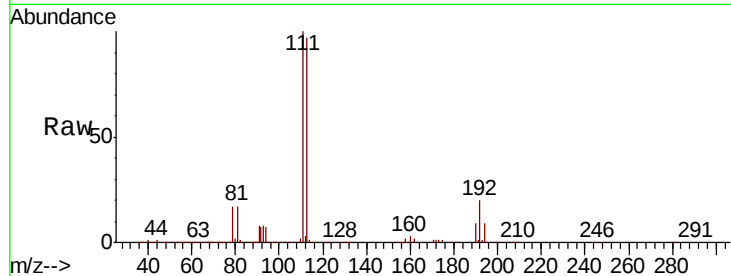
Tot Ion:113 Resp: 287756

Ion Ratio Lower Upper

113 100

111 104.7 80.7 121.1

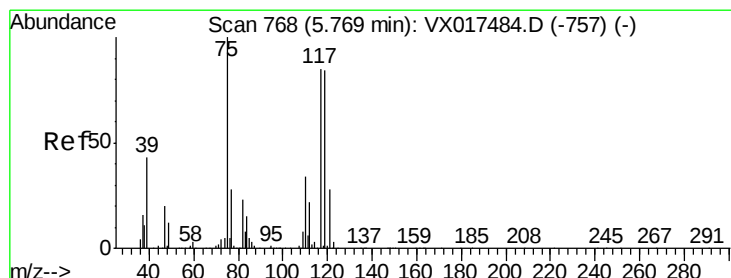
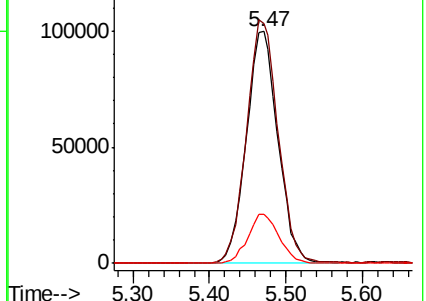
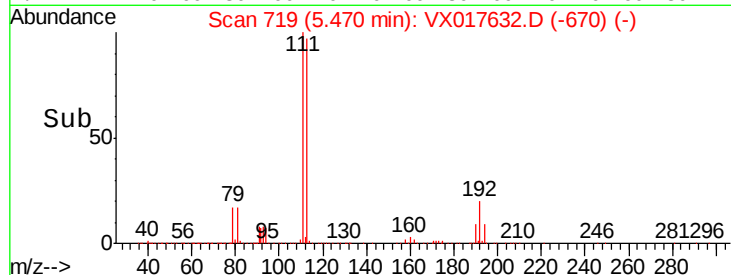
192 20.8 16.9 25.3



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: 4.577 ug/l

RT: 5.63 min Scan# 746

Delta R.T. -0.13 min

Lab File: VX017632.D

Acq: 27 Jul 2020 21:12

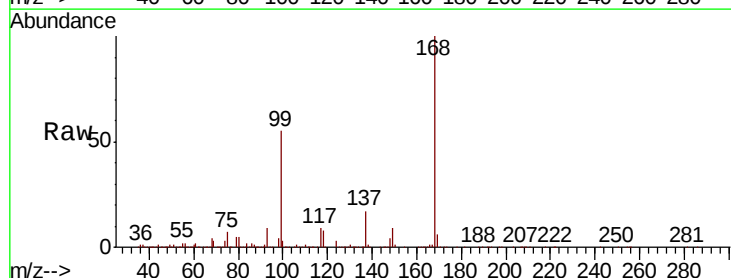
Tgt Ion: 75 Resp: 37753

Ion Ratio Lower Upper

75 100

110 11.2 18.1 54.3#

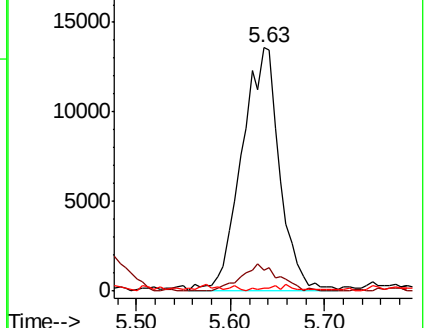
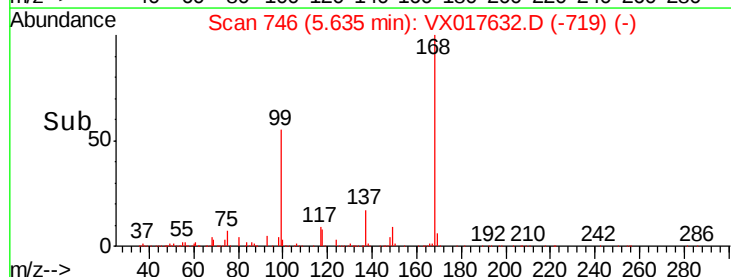
77 0.2 24.6 37.0#

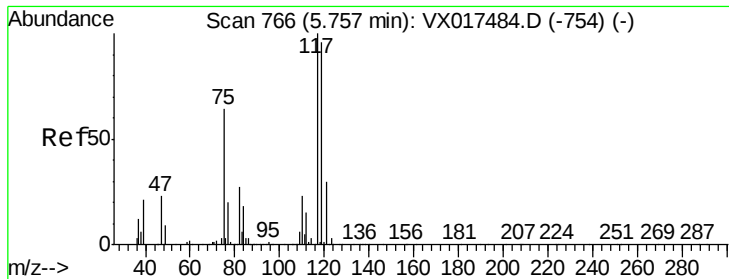


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VX0





#38

Carbon Tetrachloride

Concen: 5.111 ug/l

RT: 5.63 min Scan# 745

Delta R.T. -0.13 min

Lab File: VX017632.D

Acq: 27 Jul 2020 21:12

Instrument :

MSVOA_X

ClientSampleId :

FIELD-BLANK

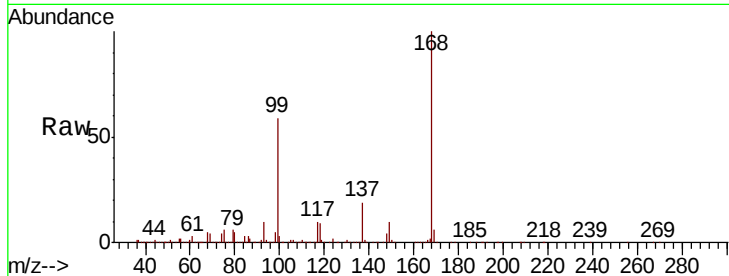
Tot Ion:117 Resp: 51193

Ion Ratio Lower Upper

117 100

119 6.3 75.4 113.0#

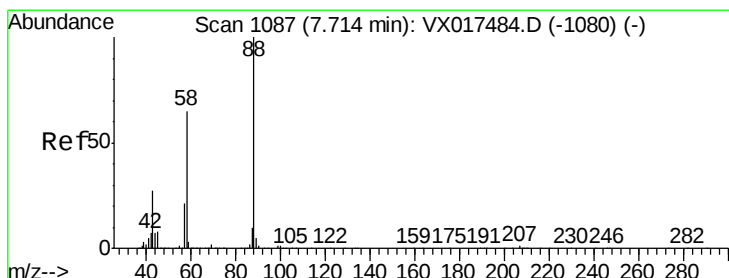
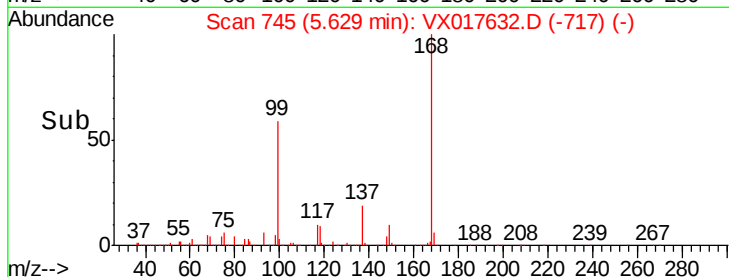
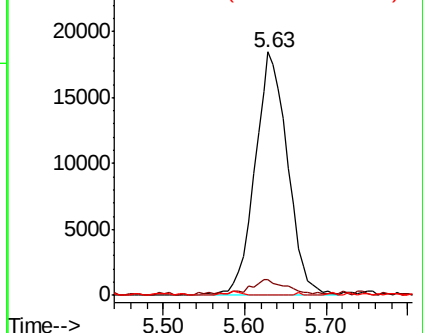
121 0.0 24.3 36.5#



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



#49

1,4-Dioxane

Concen: 1.251 ug/l

RT: 7.73 min Scan# 1090

Delta R.T. 0.02 min

Lab File: VX017632.D

Acq: 27 Jul 2020 21:12

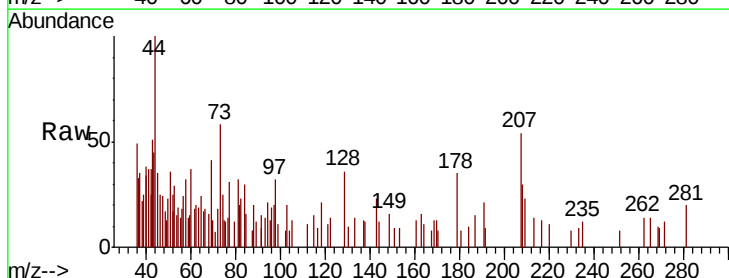
Tgt Ion: 88 Resp: 177

Ion Ratio Lower Upper

88 100

43 104.0 27.8 41.6#

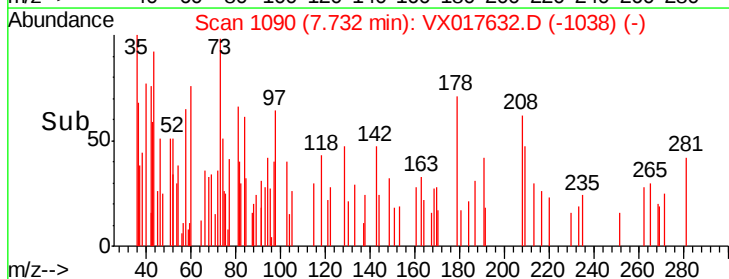
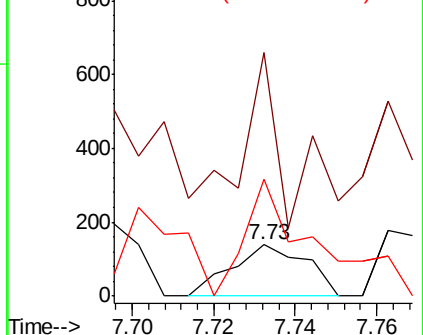
58 192.1 58.3 87.5#

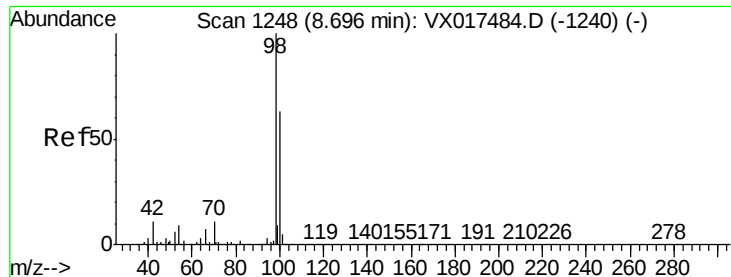


Abundance Ion 88.00 (87.70 to 88.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0





#50

Toluene-d8

Concen: 51.721 ug/l

RT: 8.70 min Scan# 1248

Delta R.T. -0.00 min

Lab File: VX017632.D

Acq: 27 Jul 2020 21:12

Instrument :

MSVOA_X

ClientSampleId :

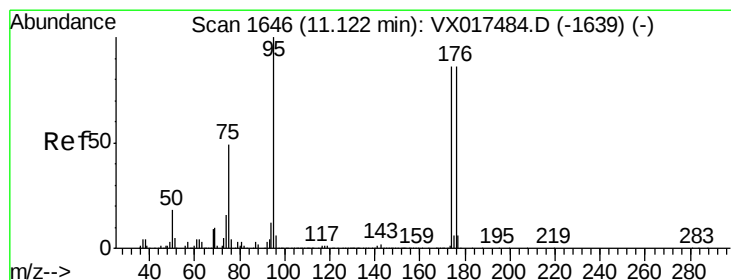
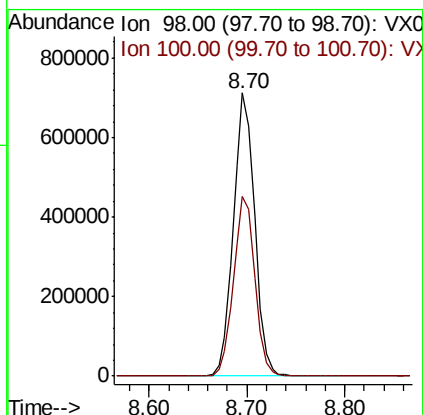
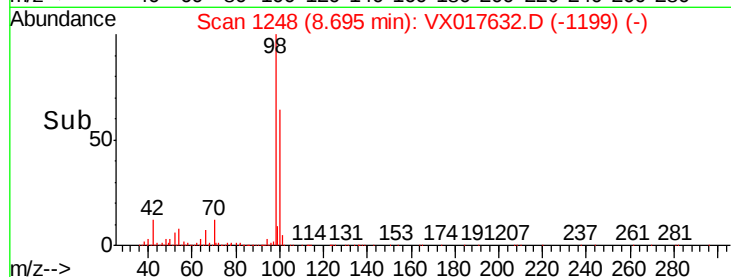
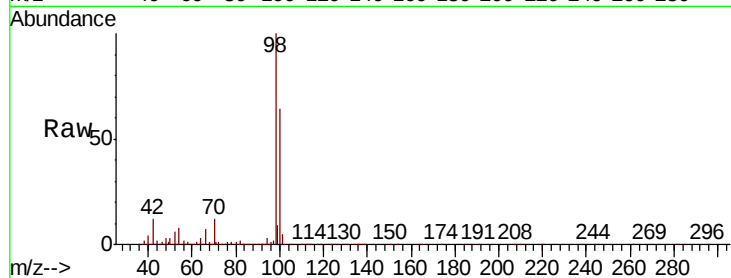
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Tot Ion: 98 Resp: 1073216

Ion Ratio Lower Upper

98 100

100 63.9 52.3 78.5



#62

4-Bromofluorobenzene

Concen: 57.291 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.00 min

Lab File: VX017632.D

Acq: 27 Jul 2020 21:12

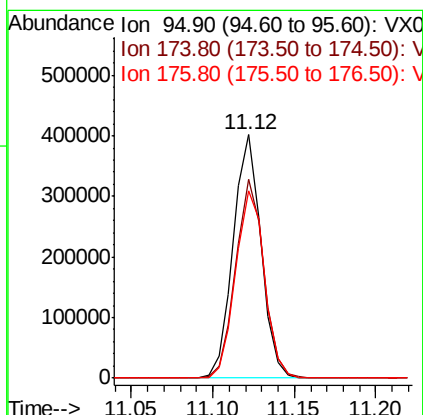
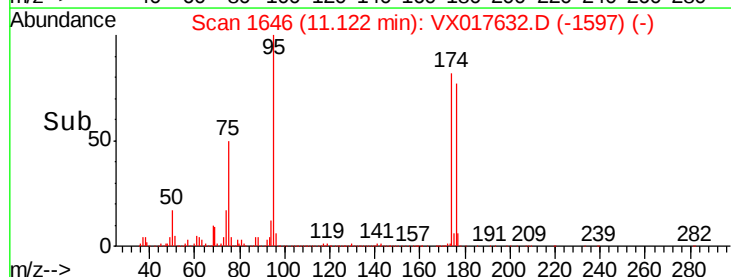
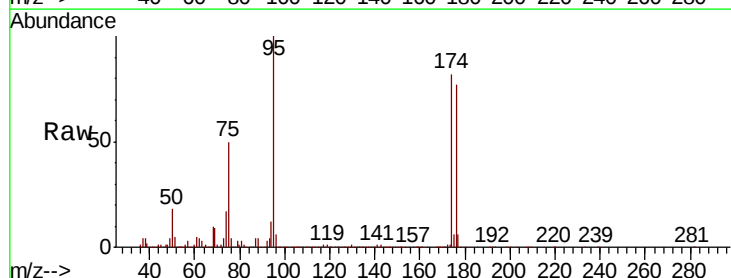
Tgt Ion: 95 Resp: 475759

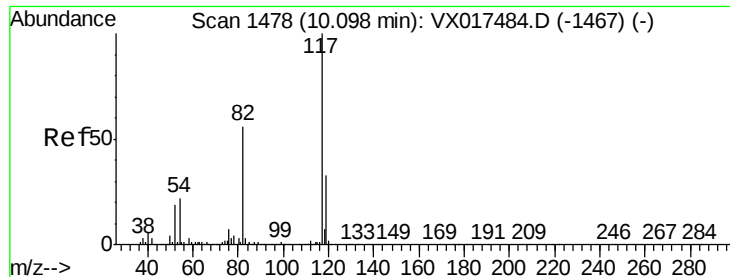
Ion Ratio Lower Upper

95 100

174 82.9 0.0 169.0

176 80.5 0.0 161.0

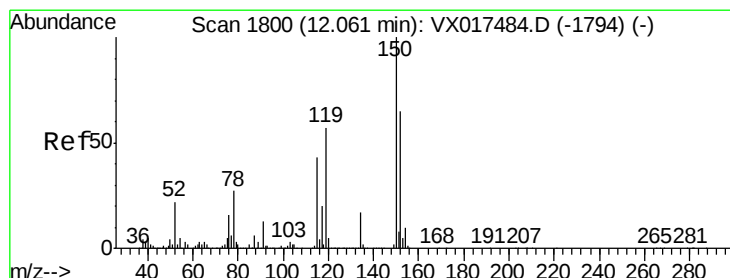
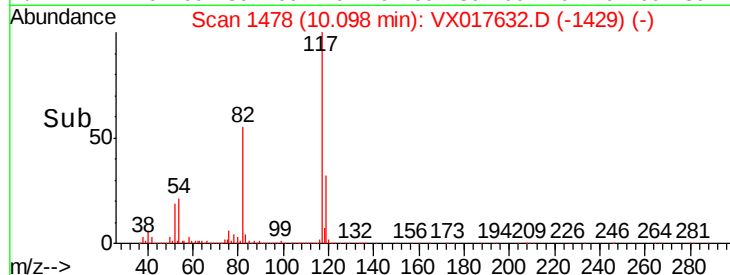
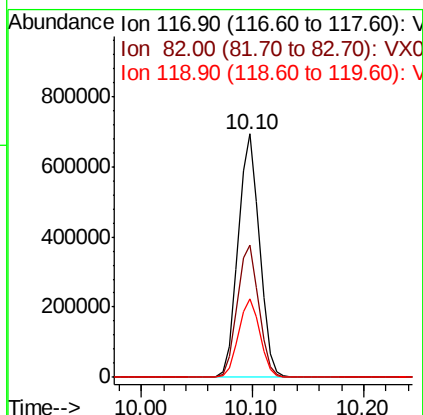
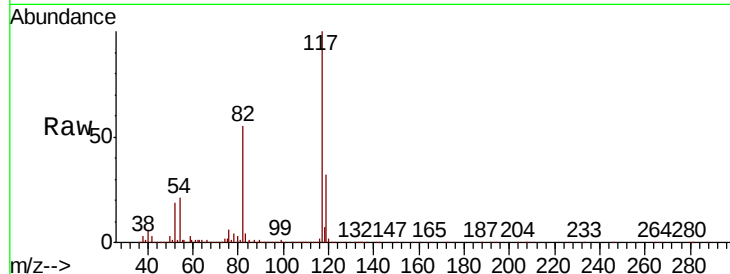




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. -0.00 min
Lab File: VX017632.D
Acq: 27 Jul 2020 21:12

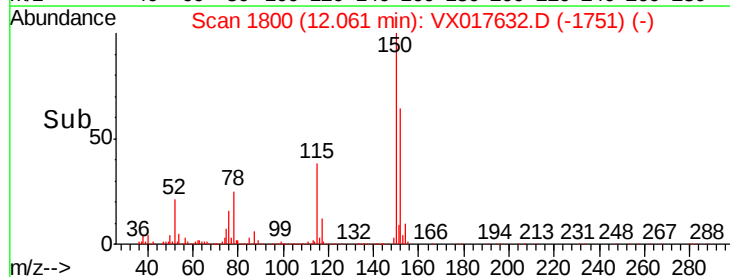
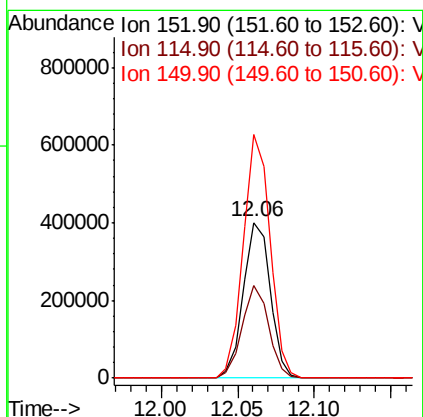
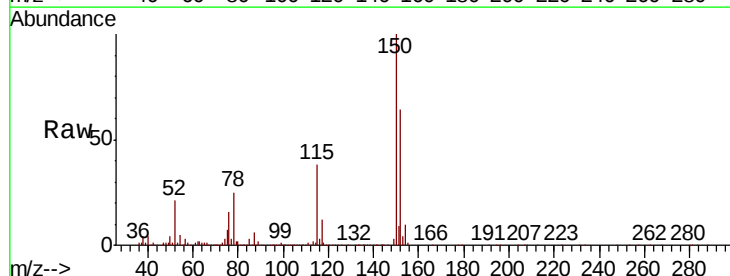
Instrument :
MSVOA_X
ClientSampleId :
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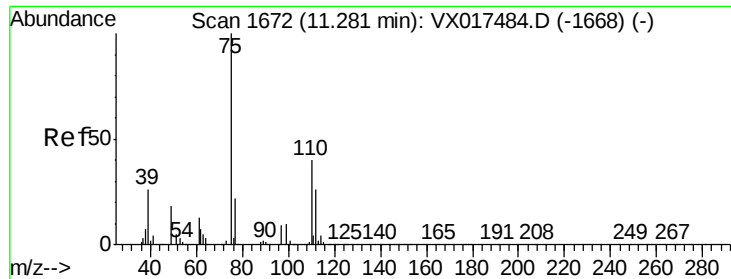
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.5	44.0	66.0
119	32.3	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. -0.00 min
Lab File: VX017632.D
Acq: 27 Jul 2020 21:12

Tgt Ion	Ratio	Lower	Upper
152	100		
115	58.6	65.5	196.6#
150	154.9	0.0	412.6





#76

1,2,3-Trichloropropane

Concen: 23.693 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. -0.16 min

Lab File: VX017632.D

Acq: 27 Jul 2020 21:12

Instrument :

MSVOA_X

ClientSampled :

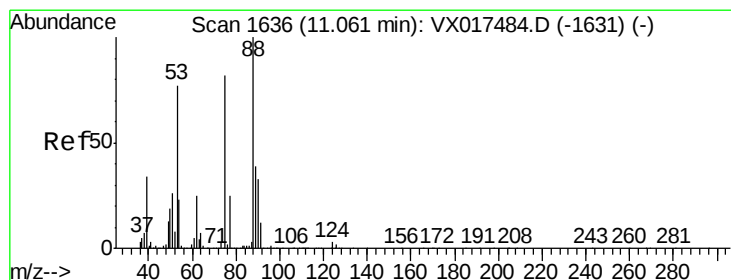
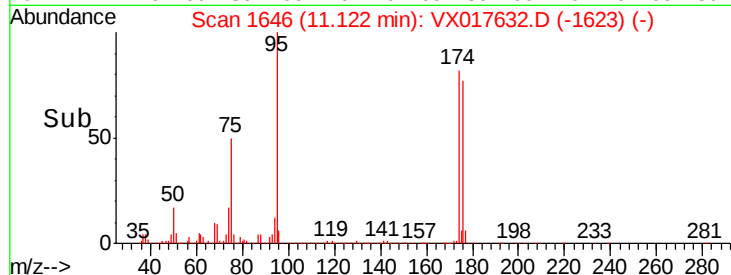
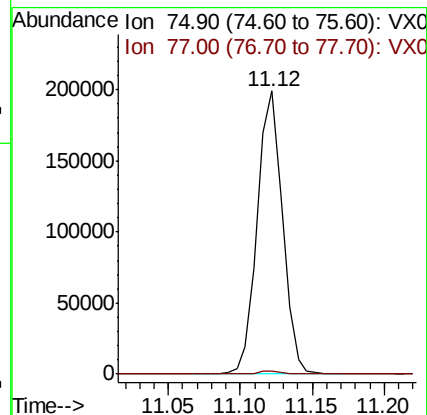
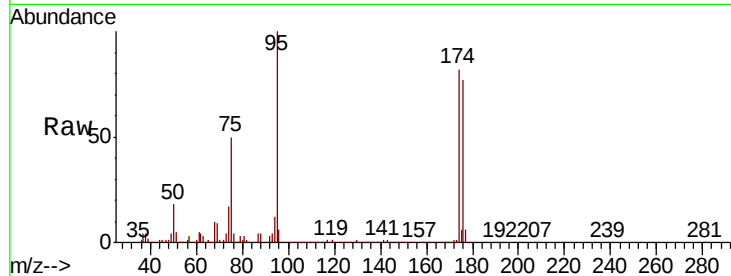
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Tot Ion: 75 Resp: 240259

Ion Ratio Lower Upper

75 100

77 1.2 21.8 65.3#



#81

trans-1,4-Dichloro-2-butene

Concen: 59.701 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.06 min

Lab File: VX017632.D

Acq: 27 Jul 2020 21:12

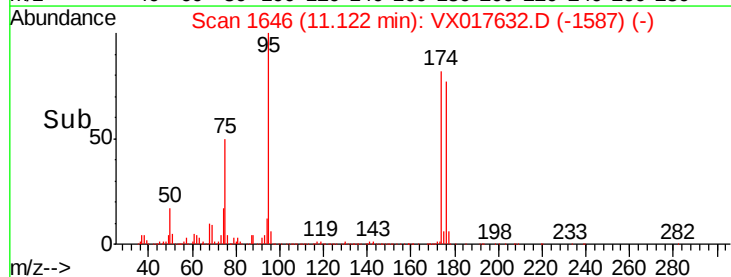
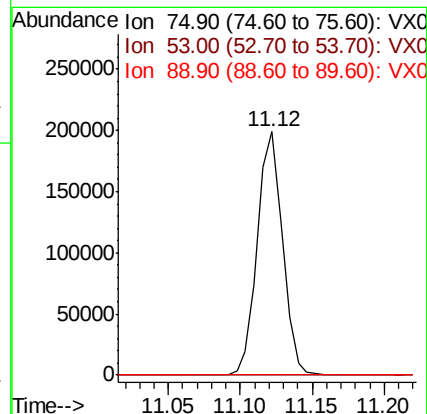
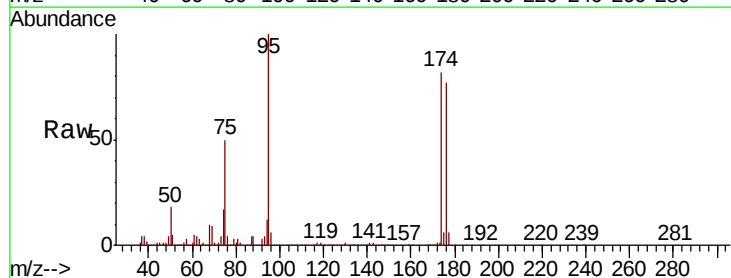
Tgt Ion: 75 Resp: 240259

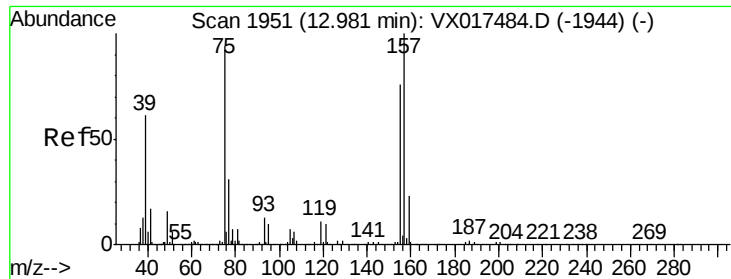
Ion Ratio Lower Upper

75 100

53 0.2 75.9 113.9#

89 0.0 37.8 56.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 2.702 ug/l

RT: 13.00 min Scan# 1954

Delta R.T. 0.02 min

Lab File: VX017632.D

Acq: 27 Jul 2020 21:12

Instrument :

MSVOA_X

ClientSampleId :

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Tot Ion: 75 Resp: 394

Ion Ratio Lower Upper

75 100

155 7.6 42.3 126.8#

157 0.0 54.3 162.9#

