

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX071620\
 Data File : VX017393.D
 Acq On : 16 Jul 2020 16:05
 Operator : JC/SP
 Sample : L3320-01
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 200715089-01-VOA

Quant Time: Jul 17 01:51:58 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X071320W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 14 02:59:51 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.63	168	264089	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.83	114	439094	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.10	117	477607	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.06	152	262464	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.03	65	173042	52.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.42%	
35) Dibromofluoromethane	5.47	113	150903	51.02	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.04%	
50) Toluene-d8	8.70	98	564328	52.89	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.78%	
62) 4-Bromofluorobenzene	11.12	95	239780	56.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	113.16%	

Target Compounds

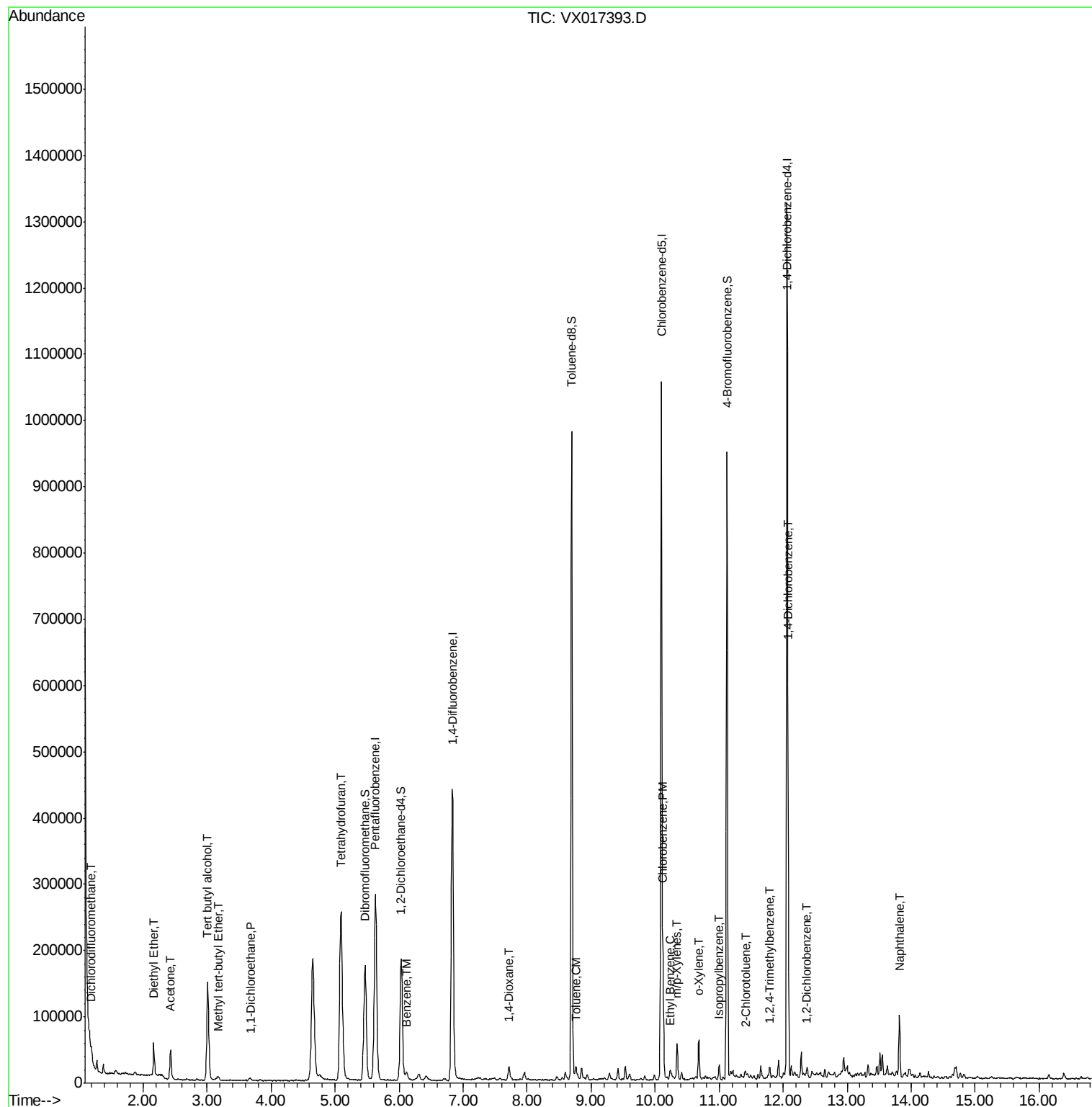
						Qvalue
2) Dichlorodifluoromethane	1.19	85	1014	0.454	ug/l #	65
8) Diethyl Ether	2.17	74	17674	11.903	ug/l	96
11) Tert butyl alcohol	3.01	59	175903	314.990	ug/l	99
16) Acetone	2.42	43	6552	5.541	ug/l	97
19) Methyl tert-butyl Ether	3.17	73	6612	0.810	ug/l	97
24) 1,1-Dichloroethane	3.67	63	3293	0.706	ug/l #	87
29) Tetrahydrofuran	5.09	42	236912	194.869	ug/l	95
40) Benzene	6.12	78	14605	1.258	ug/l	91
49) 1,4-Dioxane	7.72	88	13804	210.610	ug/l	91
52) Toluene	8.77	92	4140	0.556	ug/l	92
65) Chlorobenzene	10.12	112	73524	7.575	ug/l	99
67) Ethyl Benzene	10.24	91	6323	0.391	ug/l	94
68) m/p-Xylenes	10.34	106	10562	1.718	ug/l	97
69) o-Xylene	10.68	106	13286	2.262	ug/l	90
73) Isopropylbenzene	11.00	105	9627	0.585	ug/l	98
79) 2-Chlorotoluene	11.40	91	4643	0.408	ug/l	100
84) 1,2,4-Trimethylbenzene	11.79	105	6752	0.479	ug/l	90
88) 1,4-Dichlorobenzene	12.08	146	52139	6.156	ug/l	93
91) 1,2-Dichlorobenzene	12.38	146	3591	0.456	ug/l	92
95) Naphthalene	13.82	128	52897	3.290	ug/l	100

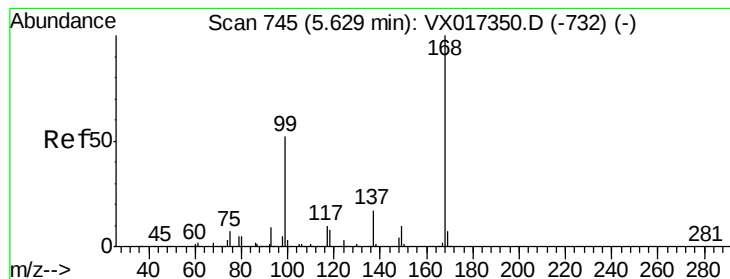
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Tue Jul 14 02:59:51 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.63 min Scan# 745

Delta R.T. 0.00 min

Lab File: VX017393.D

Acq: 16 Jul 2020 16:05

Instrument :

MSVOA_X

ClientSampleId :

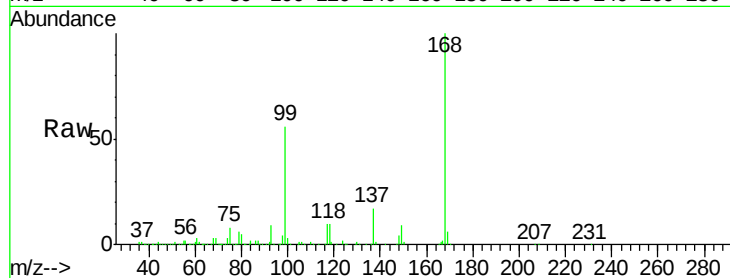
200715089-01-VOA

Tot Ion:168 Resp: 264089

Ion Ratio Lower Upper

168 100

99 56.2 41.6 62.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.63

100000

80000

60000

40000

20000

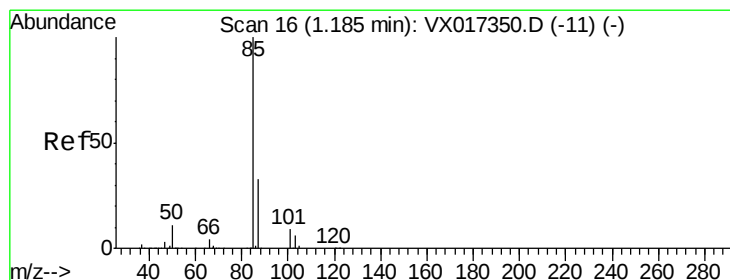
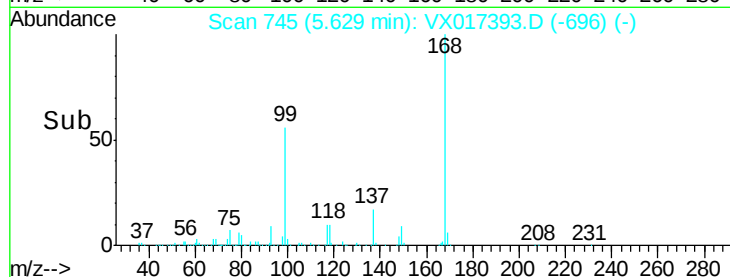
0

Time-->

5.50

5.60

5.70



#2

Dichlorodifluoromethane

Concen: 0.454 ug/l

RT: 1.19 min Scan# 17

Delta R.T. 0.01 min

Lab File: VX017393.D

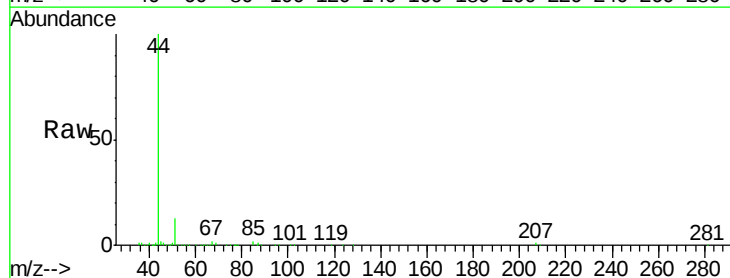
Acq: 16 Jul 2020 16:05

Tgt Ion: 85 Resp: 1014

Ion Ratio Lower Upper

85 100

87 52.2 16.3 48.8#



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.19

800

600

400

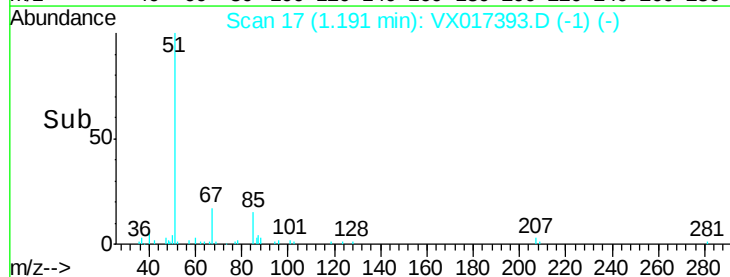
200

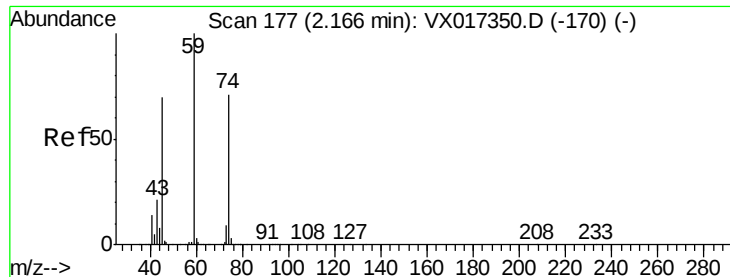
0

Time-->

1.15

1.20





#8

Diethyl Ether

Concen: 11.903 ug/l

RT: 2.17 min Scan# 177

Delta R.T. 0.00 min

Lab File: VX017393.D

Acq: 16 Jul 2020 16:05

Instrument :

MSVOA_X

ClientSampleId :

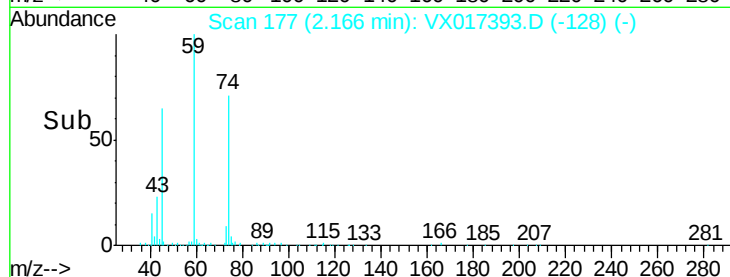
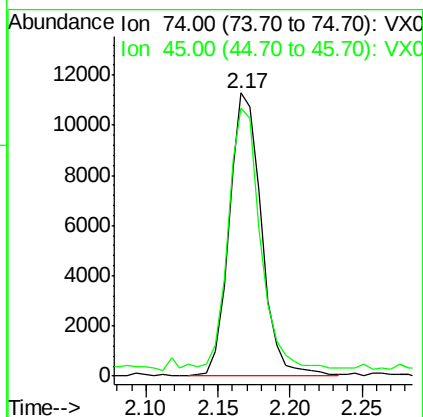
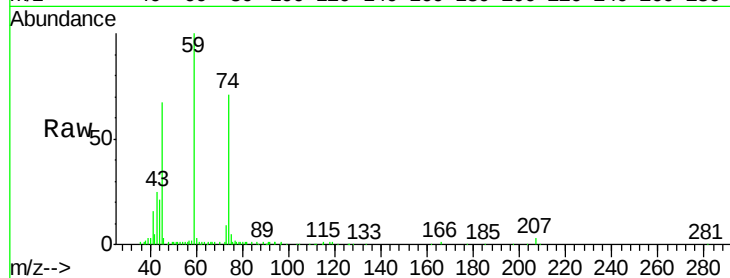
200715089-01-VOA

Tot Ion: 74 Resp: 17674

Ion Ratio Lower Upper

74 100

45 90.4 47.2 141.6



#11

Tert butyl alcohol

Concen: 314.990 ug/l

RT: 3.01 min Scan# 315

Delta R.T. -0.01 min

Lab File: VX017393.D

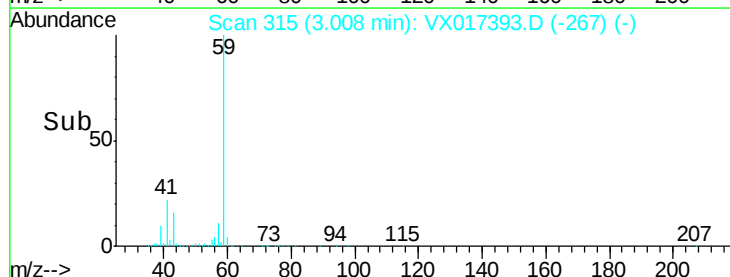
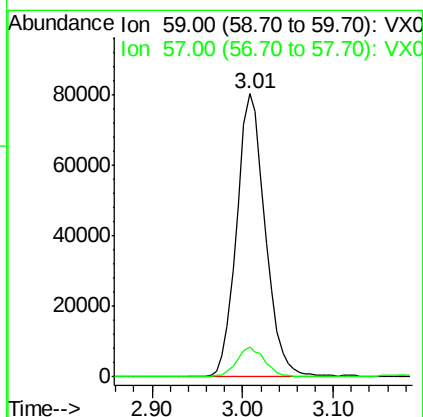
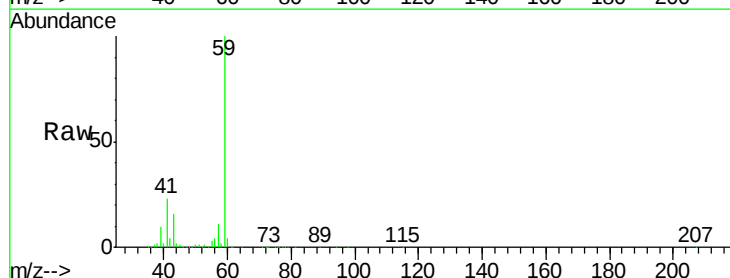
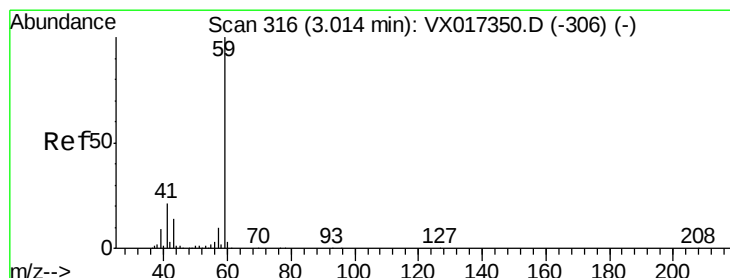
Acq: 16 Jul 2020 16:05

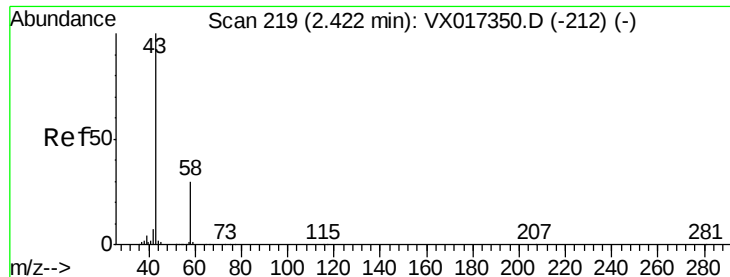
Tgt Ion: 59 Resp: 175903

Ion Ratio Lower Upper

59 100

57 10.7 8.3 12.5





#16

Acetone

Concen: 5.541 ug/l

RT: 2.42 min Scan# 218

Delta R.T. -0.01 min

Lab File: VX017393.D

Acq: 16 Jul 2020 16:05

Instrument :

MSVOA_X

ClientSampleId :

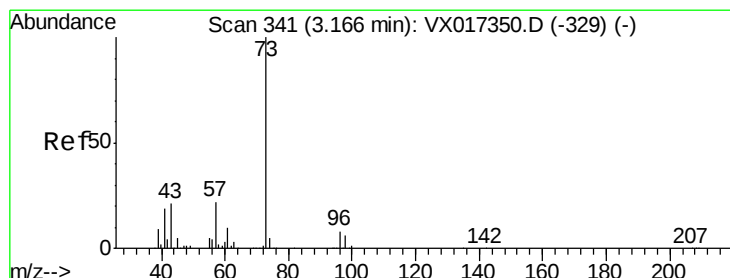
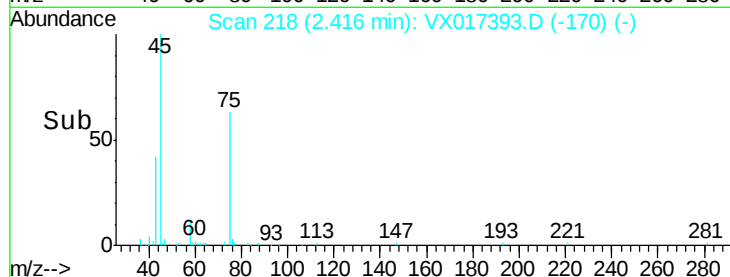
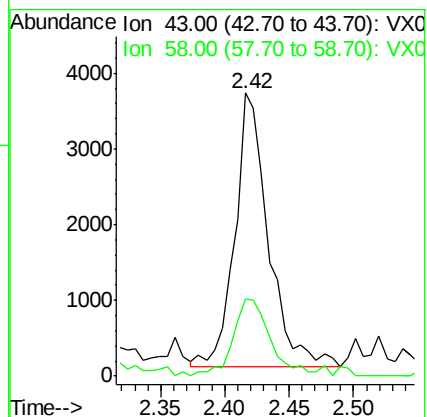
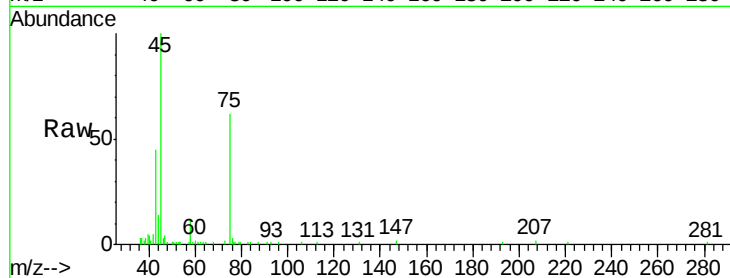
200715089-01-VOA

Tot Ion: 43 Resp: 6552

Ion Ratio Lower Upper

43 100

58 28.4 24.2 36.2



#19

Methyl tert-butyl Ether

Concen: 0.810 ug/l

RT: 3.17 min Scan# 342

Delta R.T. 0.01 min

Lab File: VX017393.D

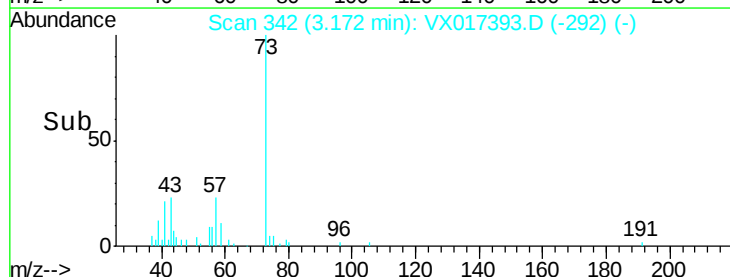
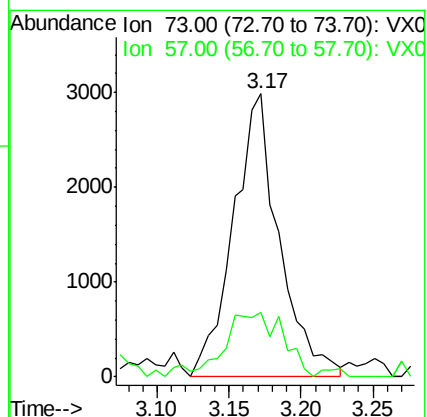
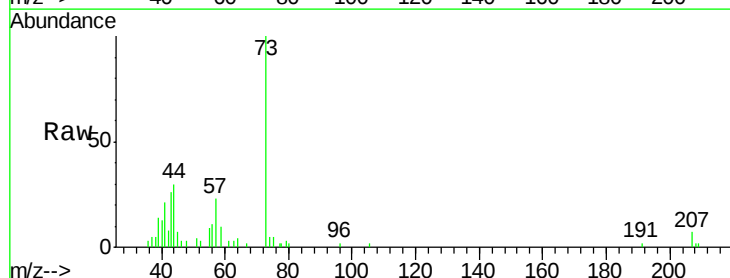
Acq: 16 Jul 2020 16:05

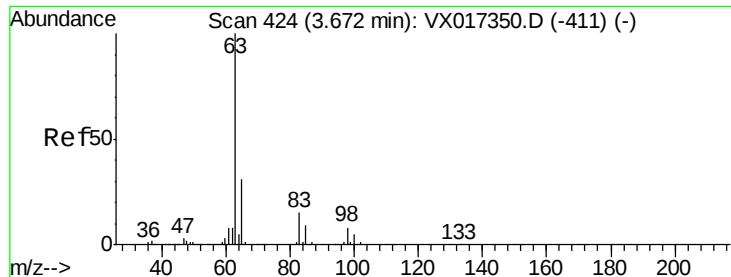
Tgt Ion: 73 Resp: 6612

Ion Ratio Lower Upper

73 100

57 20.5 17.5 26.3





#24

1,1-Dichloroethane

Concen: 0.706 ug/l

RT: 3.67 min Scan# 423

Delta R.T. -0.01 min

Lab File: VX017393.D

Acq: 16 Jul 2020 16:05

Instrument :

MSVOA_X

ClientSampleId :

200715089-01-VOA

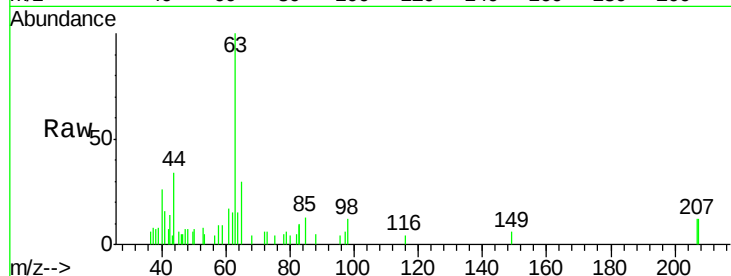
Tot Ion: 63 Resp: 3293

Ion Ratio Lower Upper

63 100

98 11.7 3.9 11.5#

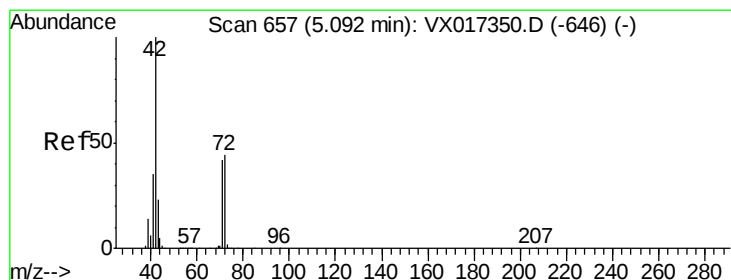
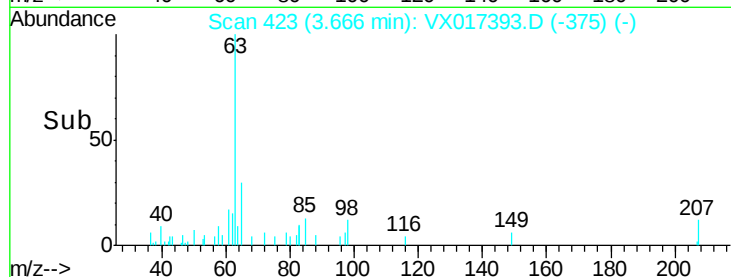
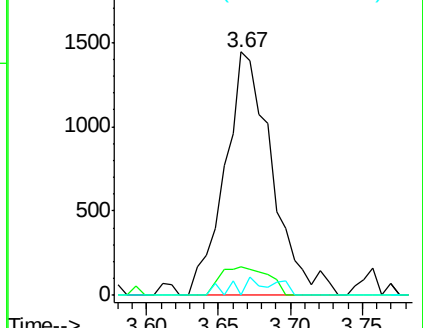
100 0.0 2.5 7.5#



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0



#29

Tetrahydrofuran

Concen: 194.869 ug/l

RT: 5.09 min Scan# 657

Delta R.T. 0.00 min

Lab File: VX017393.D

Acq: 16 Jul 2020 16:05

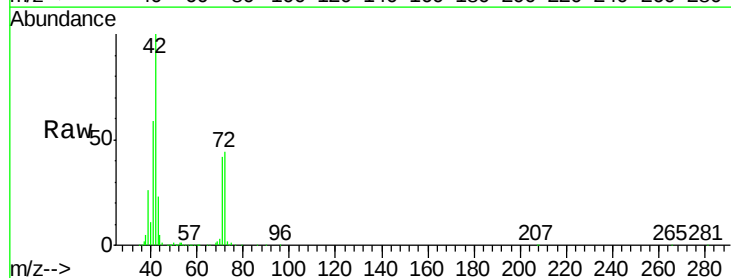
Tgt Ion: 42 Resp: 236912

Ion Ratio Lower Upper

42 100

72 43.3 37.2 55.8

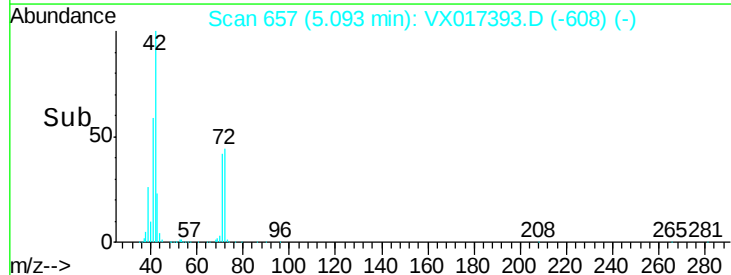
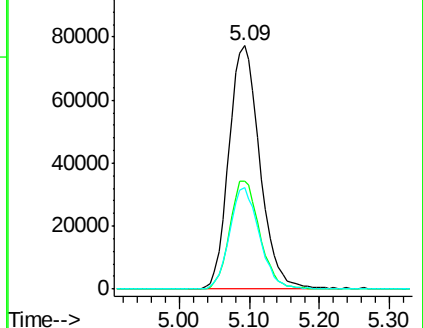
71 40.3 34.4 51.6

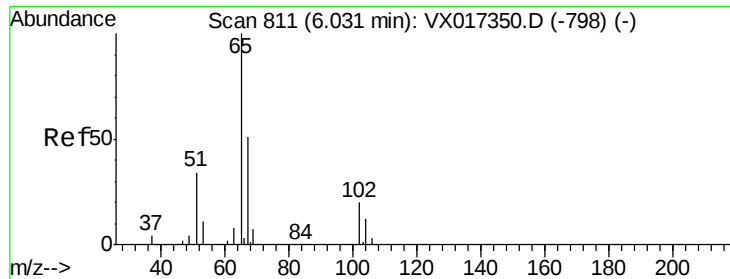


Abundance Ion 42.00 (41.70 to 42.70): VX0

Ion 72.00 (71.70 to 72.70): VX0

Ion 71.00 (70.70 to 71.70): VX0

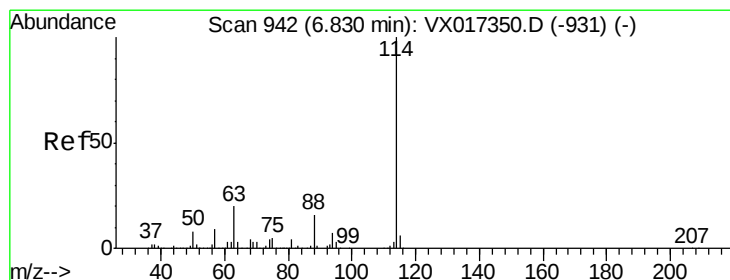
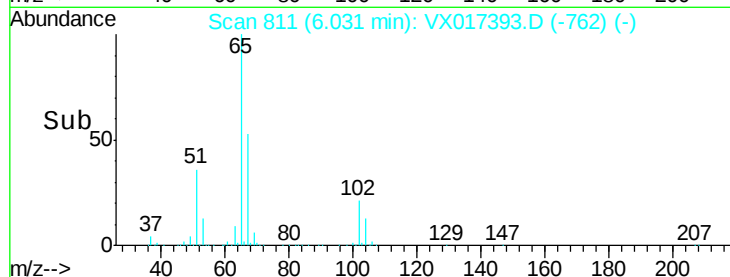
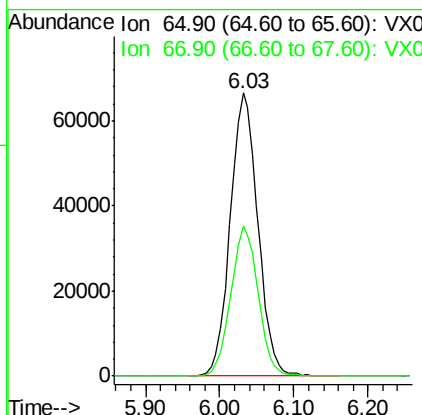
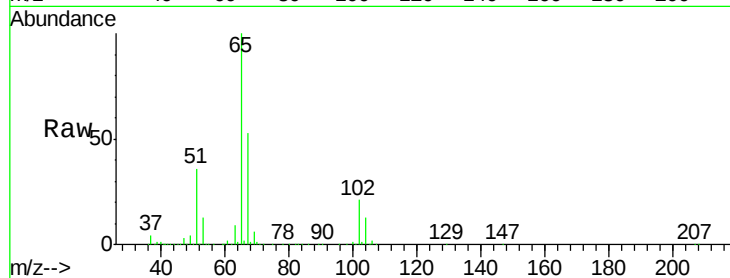




#33
 1,2-Dichloroethane-d4
 Concen: 52.207 ug/l
 RT: 6.03 min Scan# 811
 Delta R.T. 0.00 min
 Lab File: VX017393.D
 Acq: 16 Jul 2020 16:05

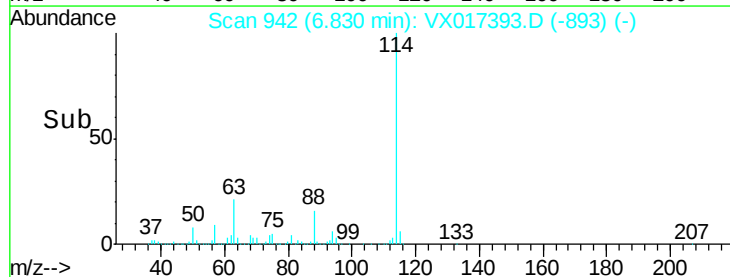
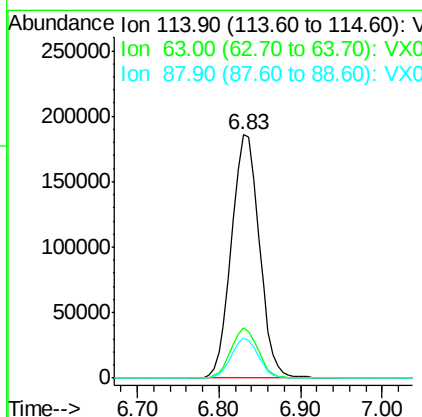
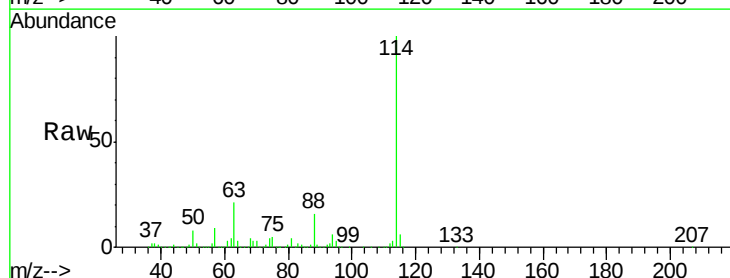
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 200715089-01-VOA

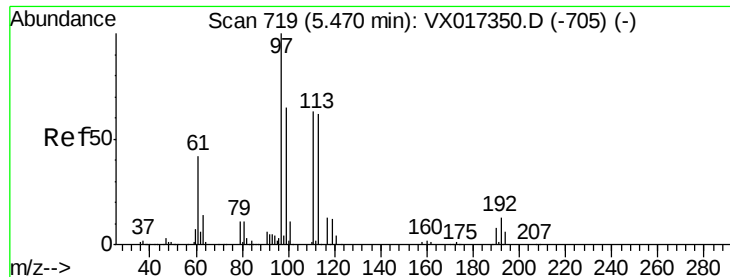
Tot Ion: 65 Resp: 173042
 Ion Ratio Lower Upper
 65 100
 67 52.6 0.0 101.6



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.83 min Scan# 942
 Delta R.T. 0.00 min
 Lab File: VX017393.D
 Acq: 16 Jul 2020 16:05

Tgt Ion: 114 Resp: 439094
 Ion Ratio Lower Upper
 114 100
 63 20.6 0.0 40.0
 88 16.4 0.0 32.8





#35

Dibromofluoromethane

Concen: 51.018 ug/l

RT: 5.47 min Scan# 719

Delta R.T. 0.00 min

Lab File: VX017393.D

Acq: 16 Jul 2020 16:05

Instrument :

MSVOA_X

ClientSampleId :

200715089-01-VOA

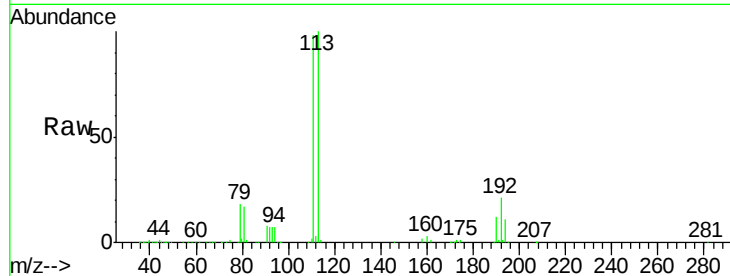
Tot Ion:113 Resp: 150903

Ion Ratio Lower Upper

113 100

111 102.3 82.4 123.6

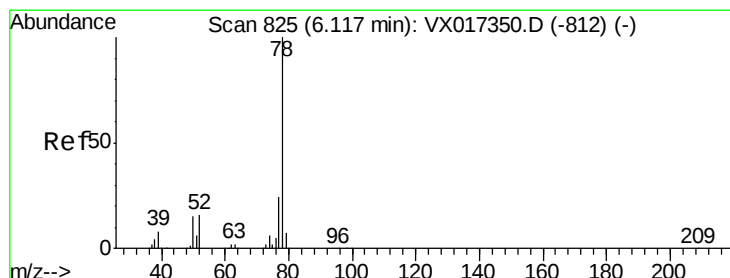
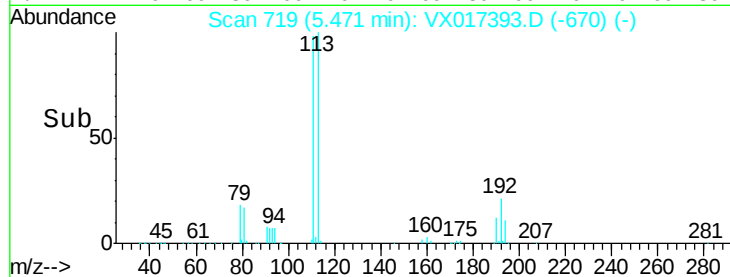
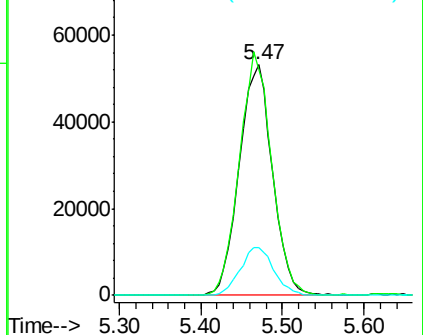
192 21.1 17.2 25.8



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



#40

Benzene

Concen: 1.258 ug/l

RT: 6.12 min Scan# 825

Delta R.T. 0.00 min

Lab File: VX017393.D

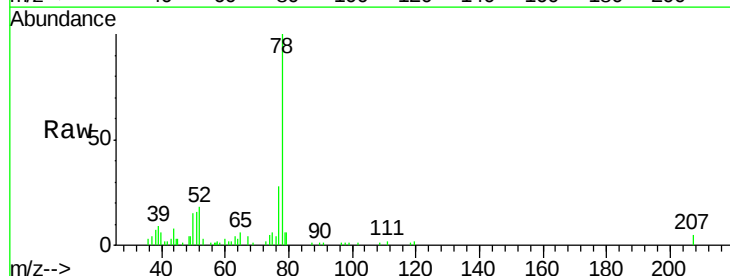
Acq: 16 Jul 2020 16:05

Tgt Ion: 78 Resp: 14605

Ion Ratio Lower Upper

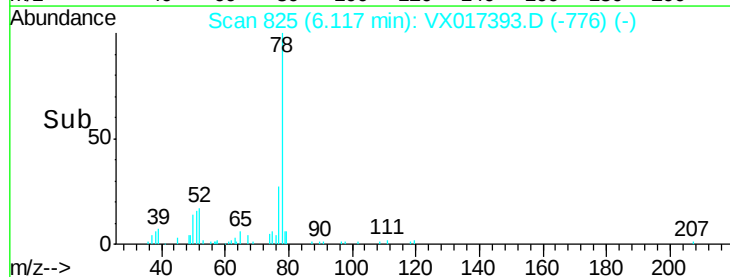
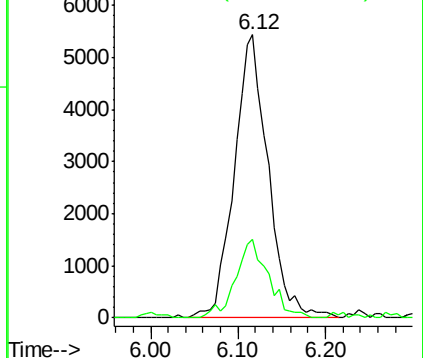
78 100

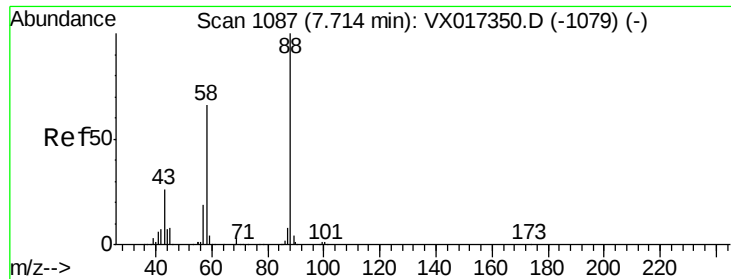
77 27.8 18.9 28.3



Abundance Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0

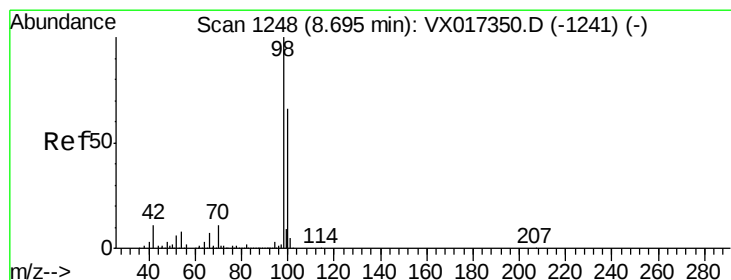
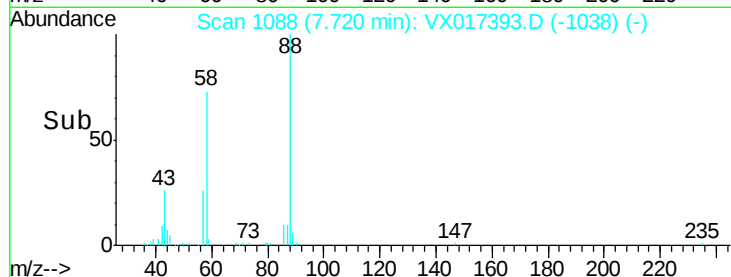
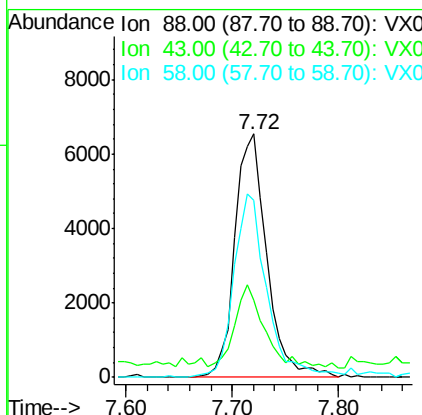
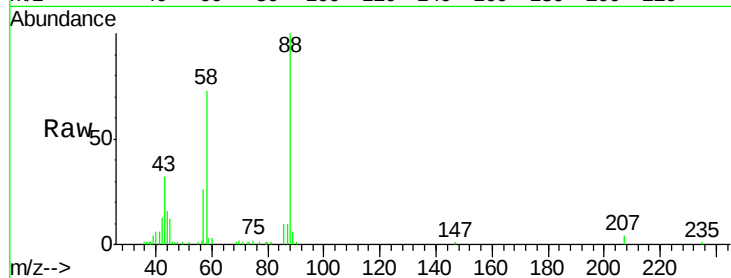




#49
 1,4-Dioxane
 Concen: 210.610 ug/l
 RT: 7.72 min Scan# 1088
 Delta R.T. 0.01 min
 Lab File: VX017393.D
 Acq: 16 Jul 2020 16:05

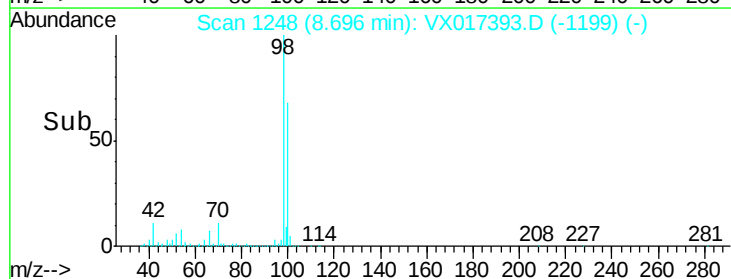
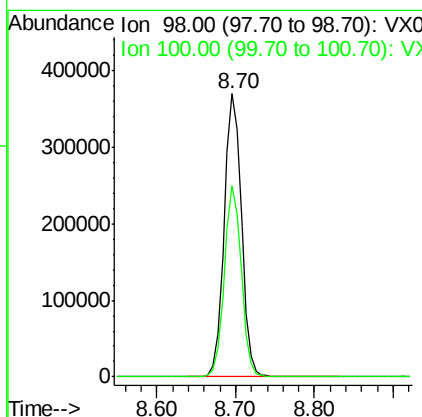
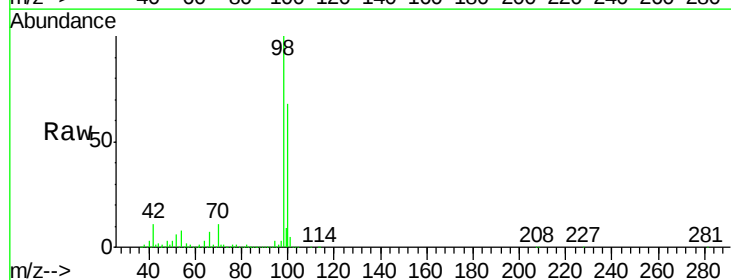
Instrument :
 MSVOA_X
 ClientSampleId :
 200715089-01-VOA

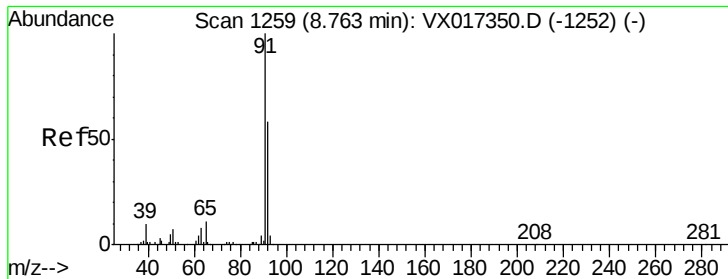
Tot Ion: 88 Resp: 13804
 Ion Ratio Lower Upper
 88 100
 43 32.0 25.6 38.4
 58 78.0 53.9 80.9



#50
 Toluene-d8
 Concen: 52.893 ug/l
 RT: 8.70 min Scan# 1248
 Delta R.T. 0.00 min
 Lab File: VX017393.D
 Acq: 16 Jul 2020 16:05

Tgt Ion: 98 Resp: 564328
 Ion Ratio Lower Upper
 98 100
 100 65.8 53.4 80.2





#52

Toluene

Concen: 0.556 ug/l

RT: 8.77 min Scan# 1260

Delta R.T. 0.01 min

Lab File: VX017393.D

Acq: 16 Jul 2020 16:05

Instrument :

MSVOA_X

ClientSampleId :

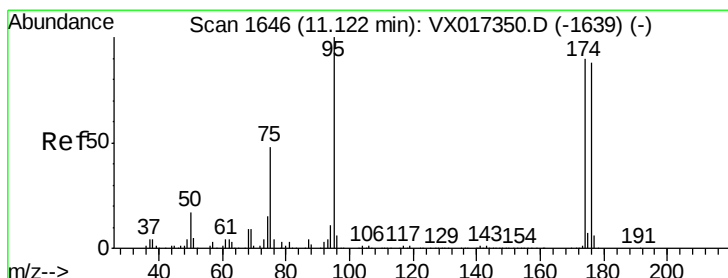
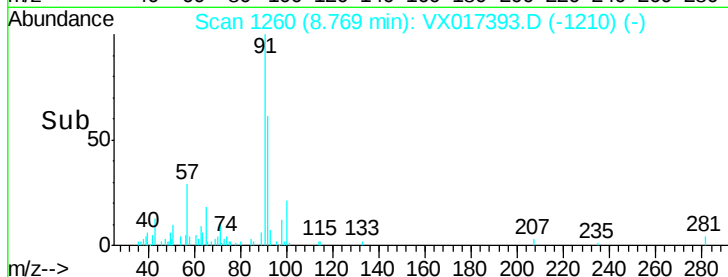
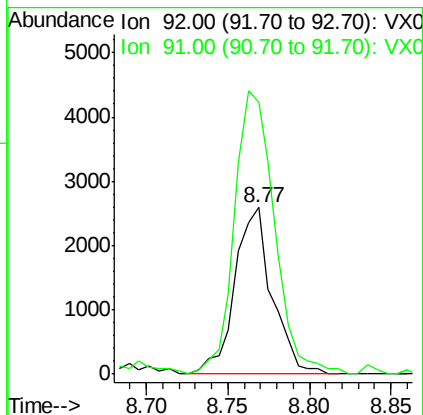
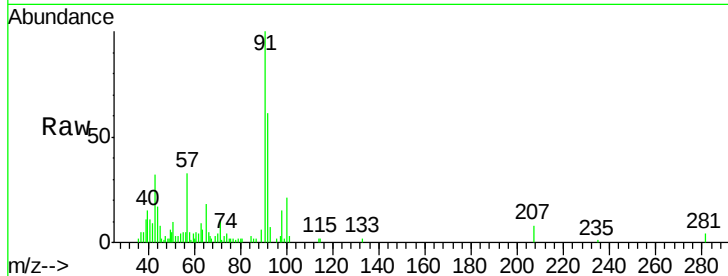
200715089-01-VOA

Tot Ion: 92 Resp: 4140

Ion Ratio Lower Upper

92 100

91 182.2 136.7 205.1



#62

4-Bromofluorobenzene

Concen: 56.578 ug/l

RT: 11.12 min Scan# 1646

Delta R.T. 0.00 min

Lab File: VX017393.D

Acq: 16 Jul 2020 16:05

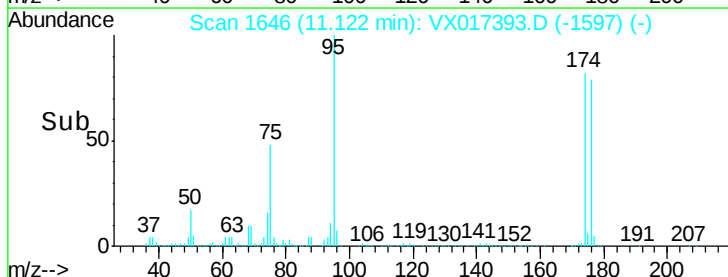
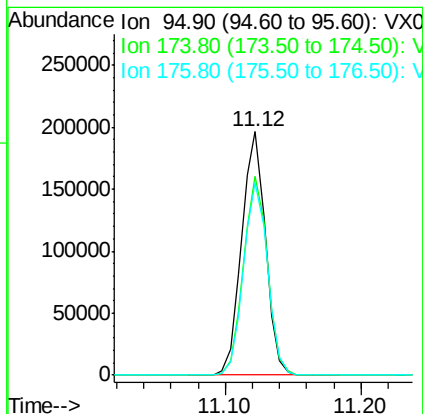
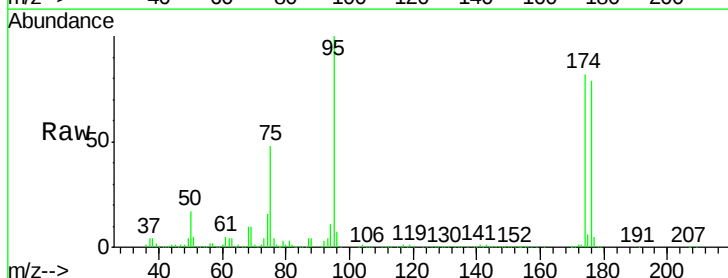
Tgt Ion: 95 Resp: 239780

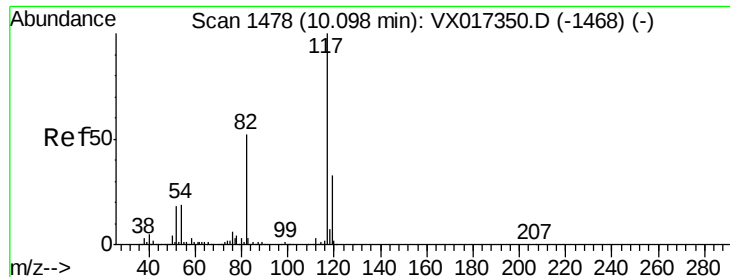
Ion Ratio Lower Upper

95 100

174 83.0 0.0 175.8

176 80.0 0.0 164.6

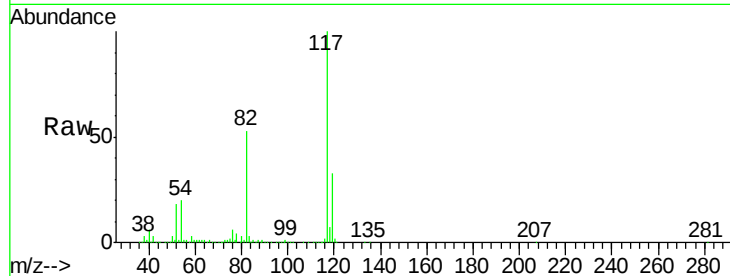




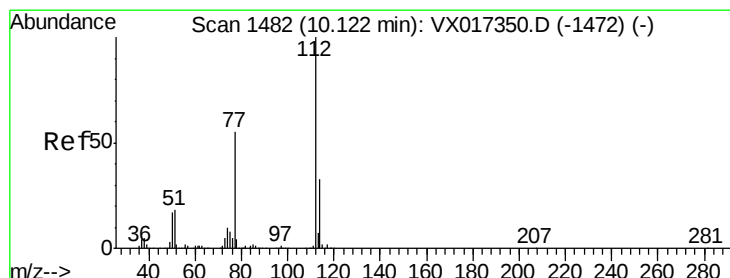
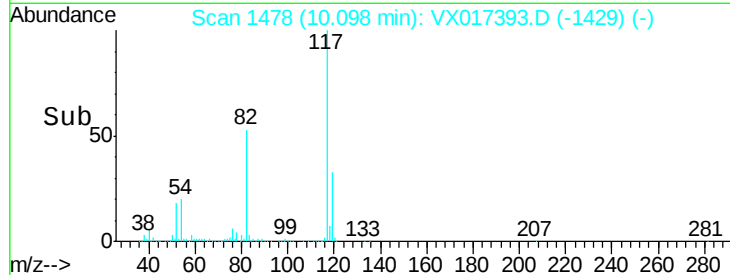
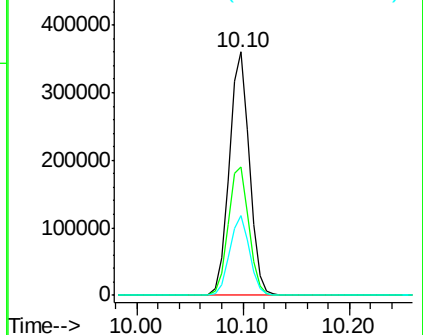
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.10 min Scan# 1478
Delta R.T. 0.00 min
Lab File: VX017393.D
Acq: 16 Jul 2020 16:05

Instrument :
MSVOA_X
ClientSampleId :
200715089-01-VOA

Tot Ion:117 Resp: 477607
Ion Ratio Lower Upper
117 100
82 52.9 42.0 63.0
119 32.5 26.3 39.5

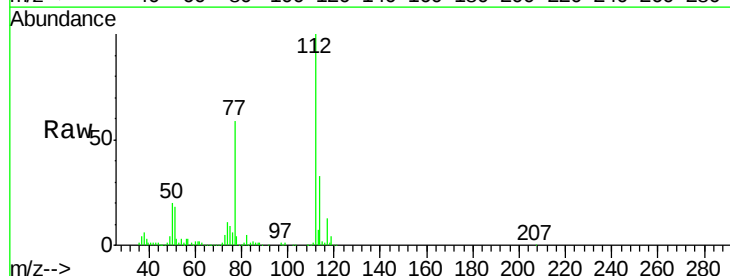


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 82.00 (81.70 to 82.70): VX0
Ion 118.90 (118.60 to 119.60): V

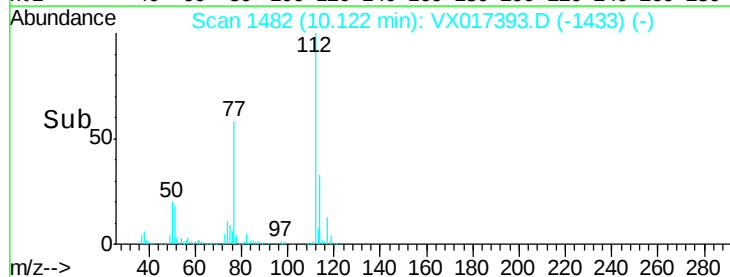
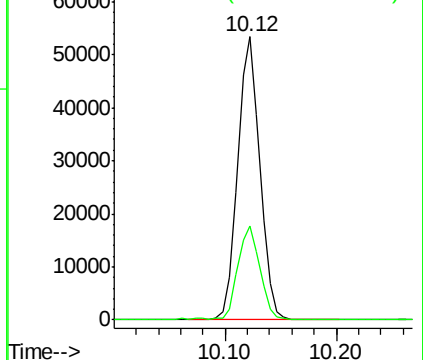


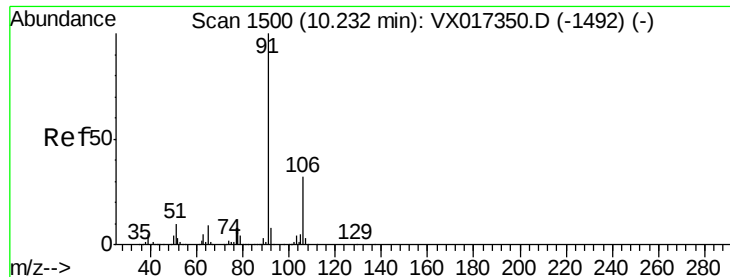
#65
Chlorobenzene
Concen: 7.575 ug/l
RT: 10.12 min Scan# 1482
Delta R.T. 0.00 min
Lab File: VX017393.D
Acq: 16 Jul 2020 16:05

Tgt Ion:112 Resp: 73524
Ion Ratio Lower Upper
112 100
114 33.1 26.0 39.0



Abundance Ion 111.90 (111.60 to 112.60): V
Ion 113.90 (113.60 to 114.60): V

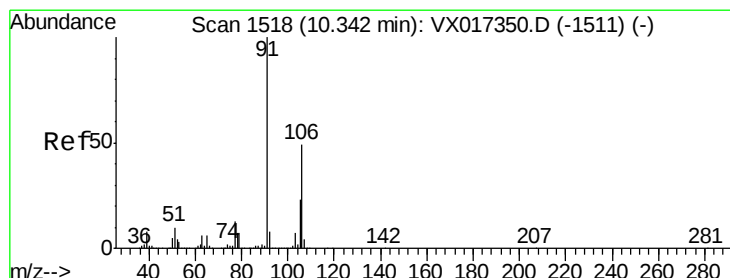
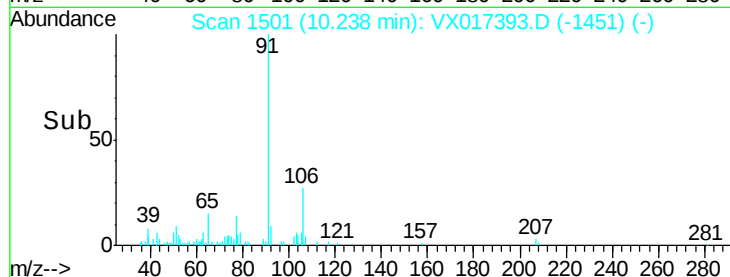
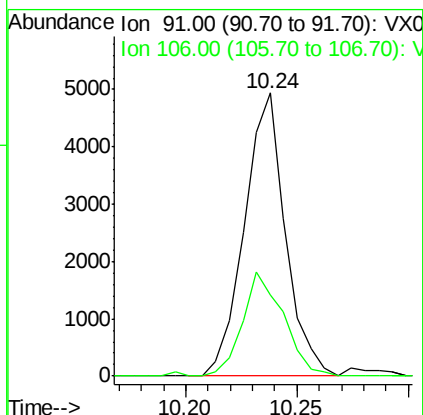
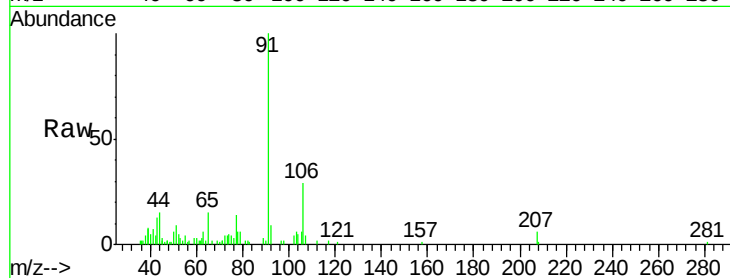




#67
Ethyl Benzene
Concen: 0.391 ug/l
RT: 10.24 min Scan# 1501
Delta R.T. 0.01 min
Lab File: VX017393.D
Acq: 16 Jul 2020 16:05

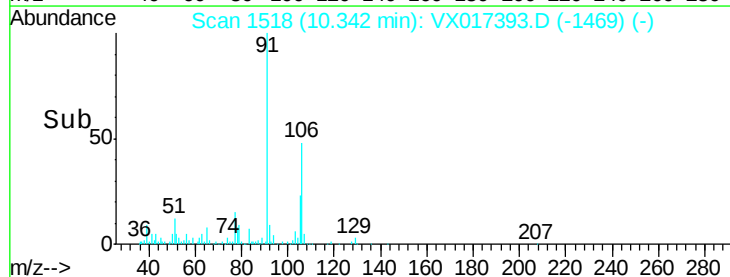
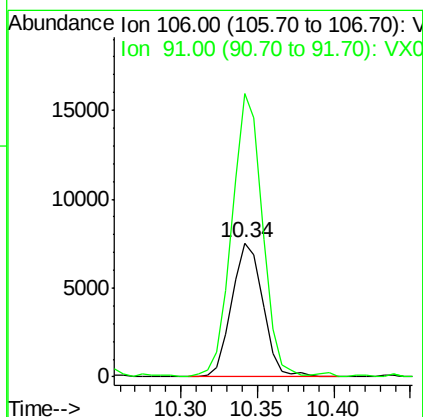
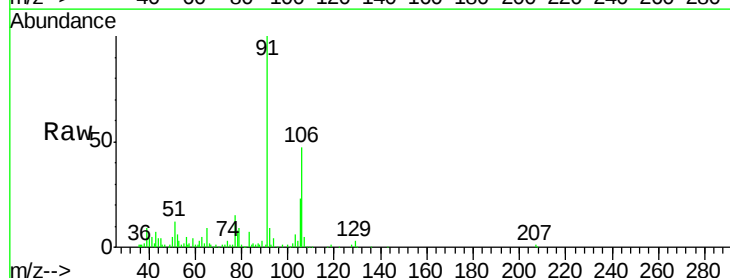
Instrument :
MSVOA_X
ClientSampleId :
200715089-01-VOA

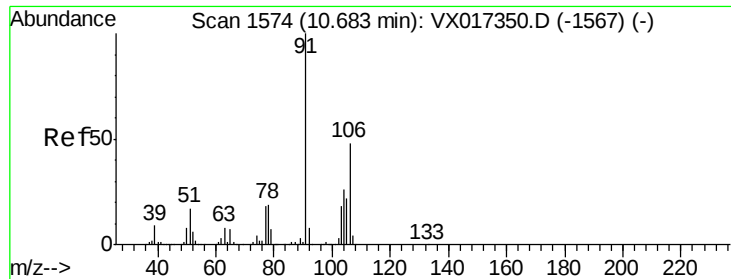
Tot Ion: 91 Resp: 6323
Ion Ratio Lower Upper
91 100
106 28.5 25.7 38.5



#68
m/p-Xylenes
Concen: 1.718 ug/l
RT: 10.34 min Scan# 1518
Delta R.T. 0.00 min
Lab File: VX017393.D
Acq: 16 Jul 2020 16:05

Tgt Ion: 106 Resp: 10562
Ion Ratio Lower Upper
106 100
91 208.1 162.5 243.7

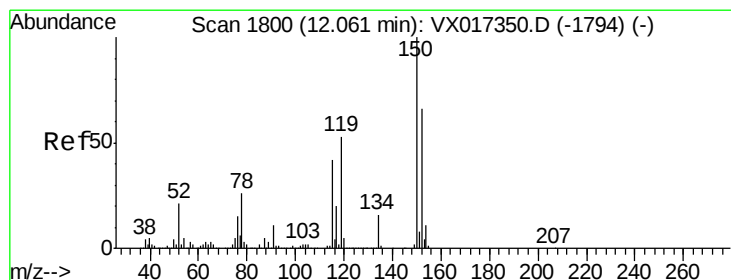
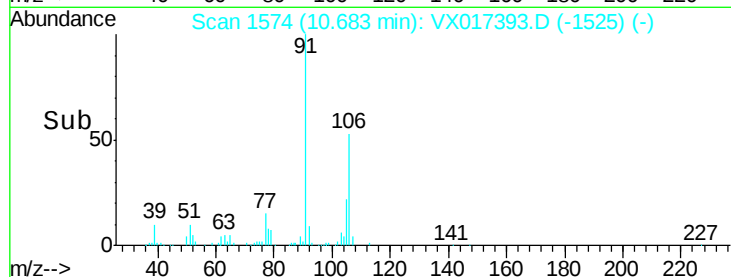
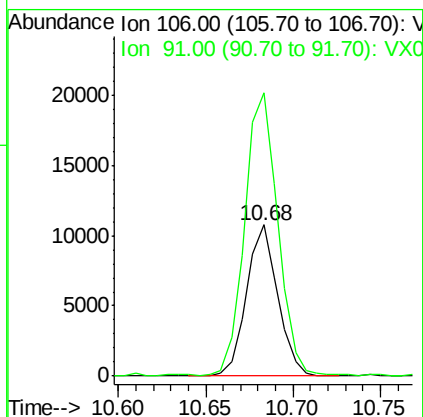
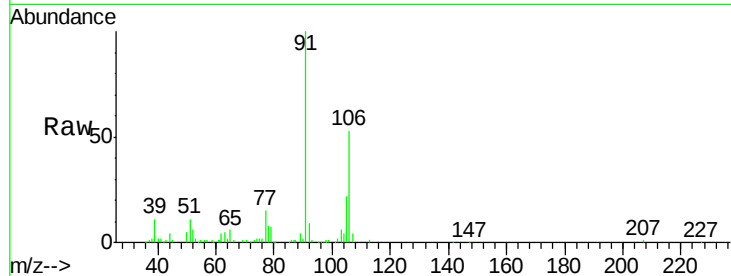




#69
o-Xylene
Concen: 2.262 ug/l
RT: 10.68 min Scan# 1574
Delta R.T. 0.00 min
Lab File: VX017393.D
Acq: 16 Jul 2020 16:05

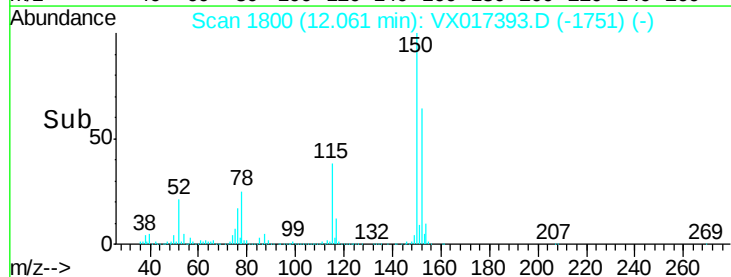
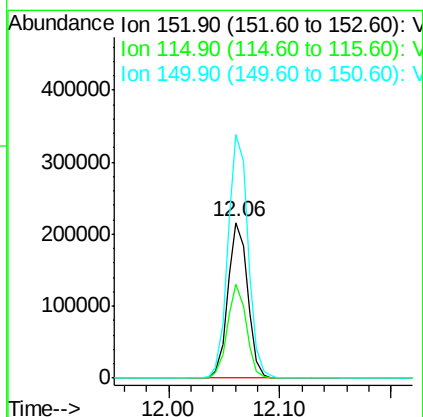
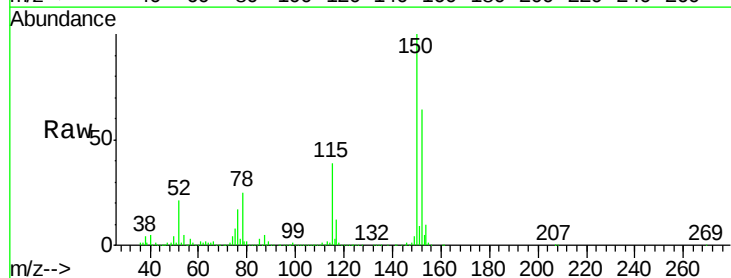
Instrument :
MSVOA_X
ClientSampleId :
200715089-01-VOA

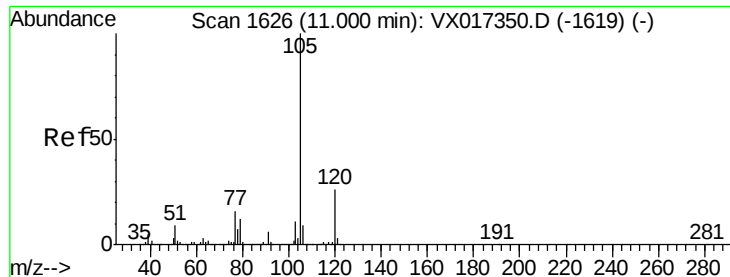
Tot Ion:106 Resp: 13286
Ion Ratio Lower Upper
106 100
91 197.0 106.1 318.1



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.06 min Scan# 1800
Delta R.T. 0.00 min
Lab File: VX017393.D
Acq: 16 Jul 2020 16:05

Tgt Ion:152 Resp: 262464
Ion Ratio Lower Upper
152 100
115 58.2 39.9 119.7
150 160.3 0.0 343.4





#73

Isopropylbenzene

Concen: 0.585 ug/l

RT: 11.00 min Scan# 1626

Delta R.T. 0.00 min

Lab File: VX017393.D

Acq: 16 Jul 2020 16:05

Instrument :

MSVOA_X

ClientSampleId :

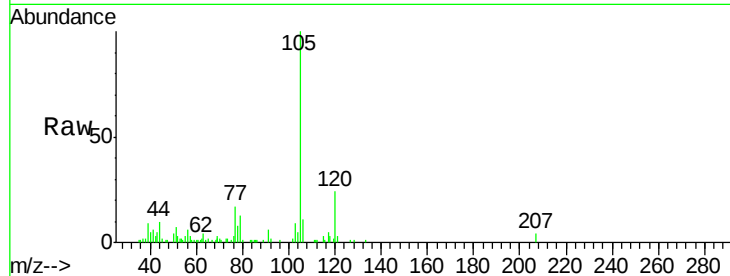
200715089-01-VOA

Tot Ion:105 Resp: 9627

Ion Ratio Lower Upper

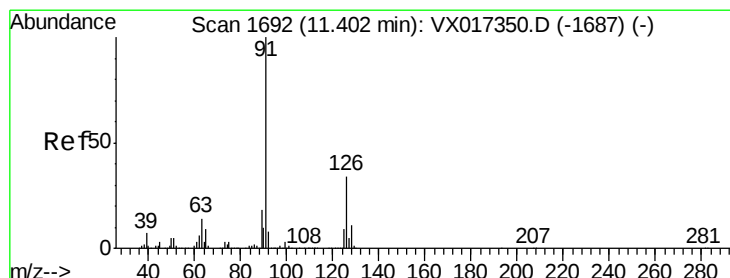
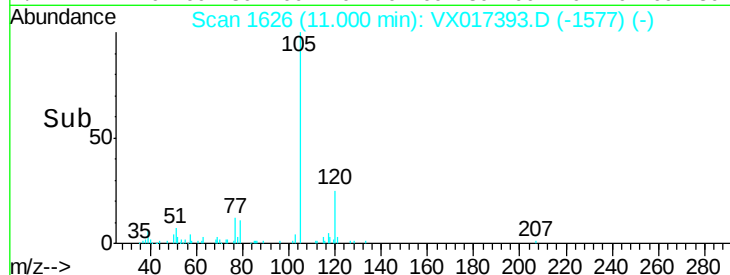
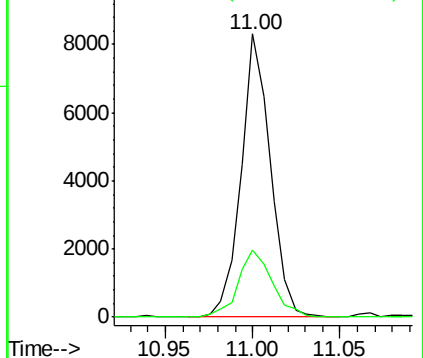
105 100

120 27.5 13.3 39.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#79

2-Chlorotoluene

Concen: 0.408 ug/l

RT: 11.40 min Scan# 1692

Delta R.T. 0.00 min

Lab File: VX017393.D

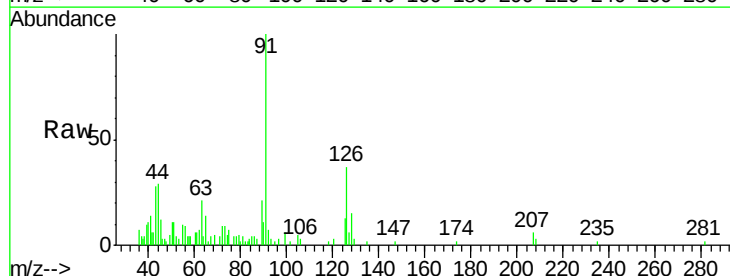
Acq: 16 Jul 2020 16:05

Tgt Ion: 91 Resp: 4643

Ion Ratio Lower Upper

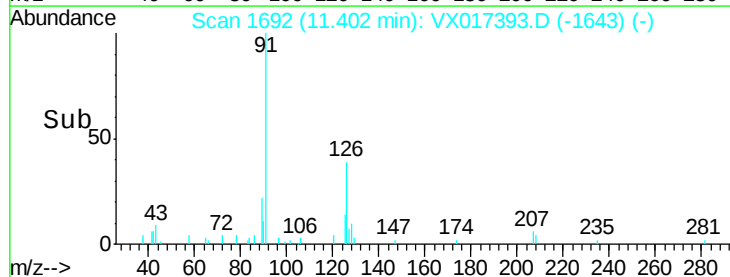
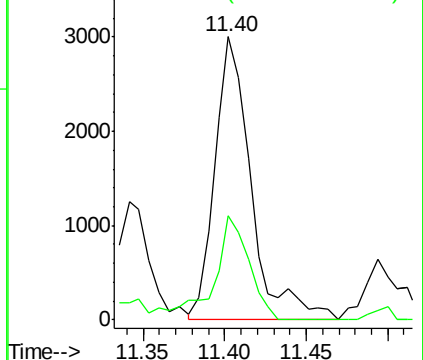
91 100

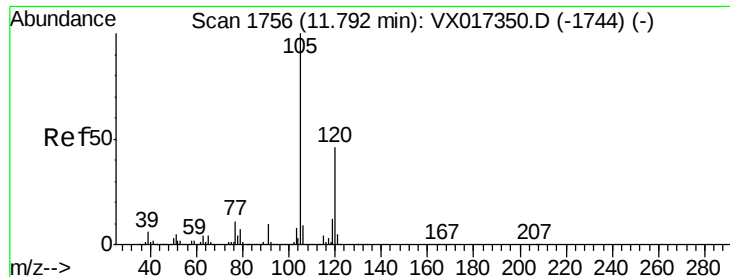
126 34.8 17.4 52.3



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V





#84

1,2,4-Trimethylbenzene

Concen: 0.479 ug/l

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX017393.D

Acq: 16 Jul 2020 16:05

Instrument :

MSVOA_X

ClientSampleId :

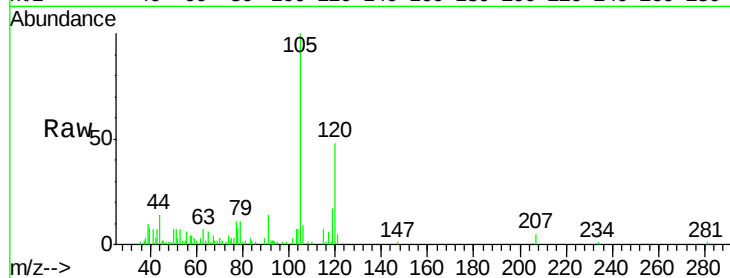
200715089-01-VOA

Tot Ion:105 Resp: 6752

Ion Ratio Lower Upper

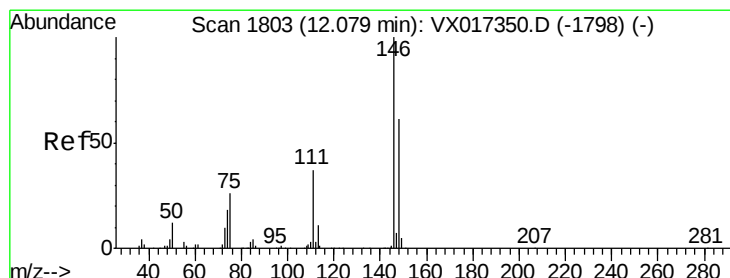
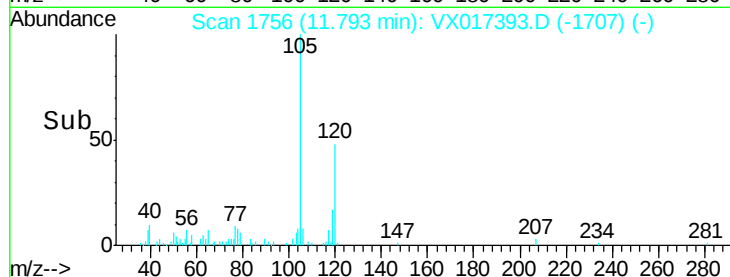
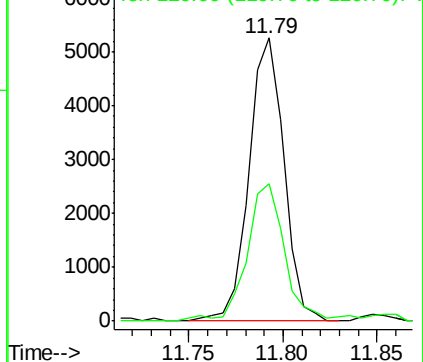
105 100

120 52.5 22.8 68.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#88

1,4-Dichlorobenzene

Concen: 6.156 ug/l

RT: 12.08 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VX017393.D

Acq: 16 Jul 2020 16:05

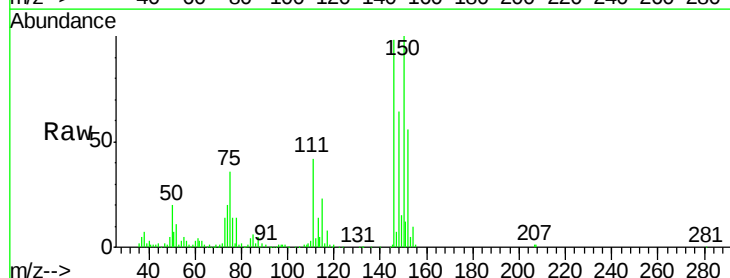
Tgt Ion:146 Resp: 52139

Ion Ratio Lower Upper

146 100

111 45.5 18.9 56.9

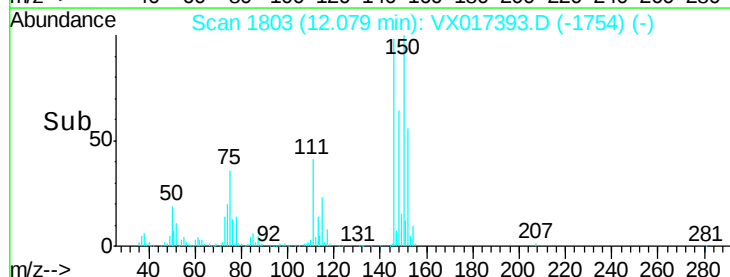
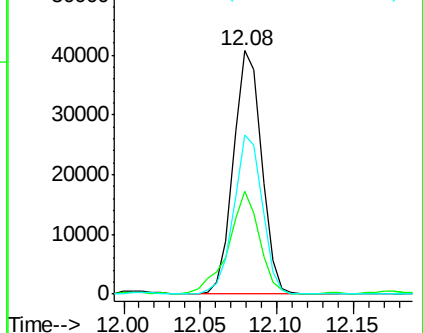
148 66.7 31.9 95.9

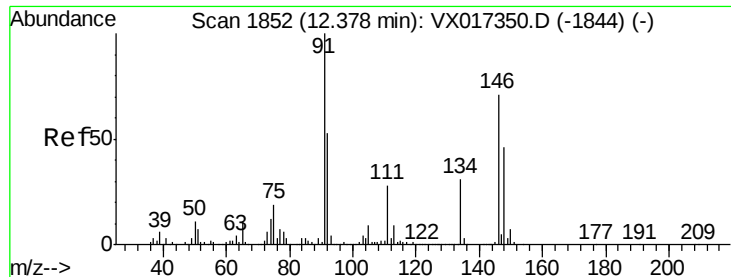


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V

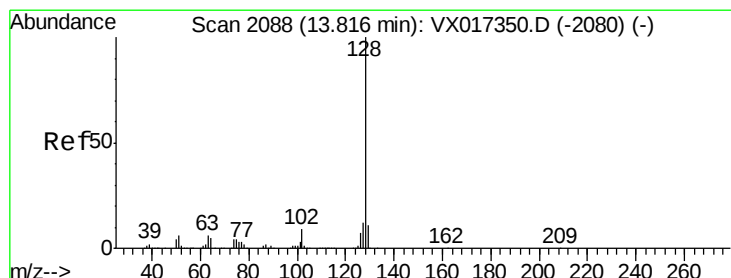
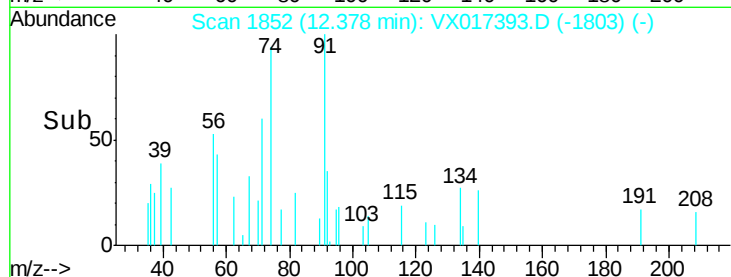
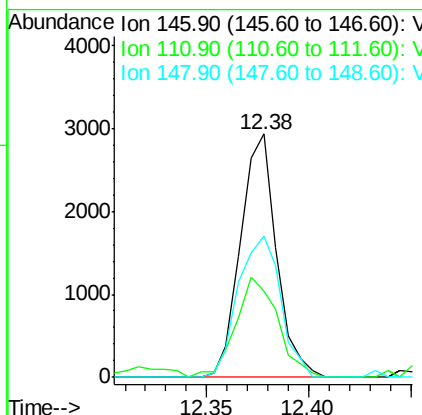
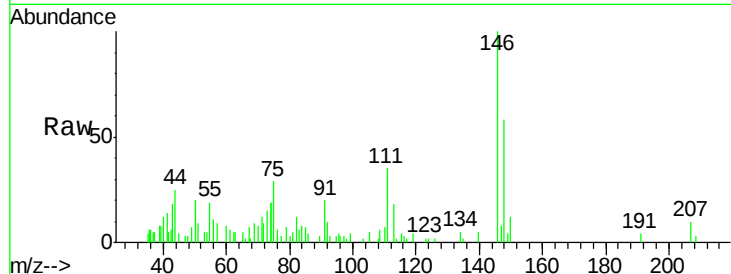




#91
 1,2-Dichlorobenzene
 Concen: 0.456 ug/l
 RT: 12.38 min Scan# 1852
 Delta R.T. 0.00 min
 Lab File: VX017393.D
 Acq: 16 Jul 2020 16:05

Instrument :
 MSVOA_X
 ClientSampleId :
 200715089-01-VOA

Tot Ion:146 Resp: 3591
 Ion Ratio Lower Upper
 146 100
 111 48.1 20.3 61.0
 148 68.7 32.0 96.0



#95
 Naphthalene
 Concen: 3.290 ug/l
 RT: 13.82 min Scan# 2088
 Delta R.T. 0.00 min
 Lab File: VX017393.D
 Acq: 16 Jul 2020 16:05

Tgt Ion:128 Resp: 52897
 Ion Ratio Lower Upper
 128 100
 127 12.6 10.2 15.4
 129 11.0 8.9 13.3

