

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072220\
 Data File : VX017474.D
 Acq On : 22 Jul 2020 18:43
 Operator : JC/SP
 Sample : L3395-15
 Misc : 25.0mL/MSVOA X/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 GAY23

Quant Time: Jul 23 03:03:10 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\SOMXTR072120WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Jul 23 02:59:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.83	114	473845	5.00	ug/L	0.00
28) Chlorobenzene-d5	10.10	117	441156	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	12.06	152	220334	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	149137	4.04	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.80%
7) Chloroethane-d5	1.69	69	111763	4.39	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.80%
11) 1,1-Dichloroethene-d2	2.34	63	215765	3.06	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	61.20%
20) 2-Butanone-d5	4.53	46	371542	53.96	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	107.92%
24) Chloroform-d	5.14	84	273759	4.45	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.00%
26) 1,2-Dichloroethane-d4	6.04	65	148111	4.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.00%
32) Benzene-d6	6.05	84	554008	5.12	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	102.40%
36) 1,2-Dichloropropane-d6	7.37	67	167064	5.25	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.00%
41) Toluene-d8	8.70	98	525429	5.03	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.60%
45) trans-1,3-Dichloropropene-	8.99	79	72662	5.20	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	104.00%
48) 2-Hexanone-d5	9.43	63	286580	57.87	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	115.74%
59) 1,1,2,2-Tetrachloroethane-	11.23	84	117211	4.72	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.40%
65) 1,2-Dichlorobenzene-d4	12.36	152	195937	5.26	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	105.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
3) Chloromethane	1.28	50	15450	0.319	ug/L #	66
13) Acetone	2.42	43	107288	19.313	ug/L	99
14) Carbon disulfide	2.55	76	65610	0.577	ug/L #	93
15) Methyl Acetate	2.75	43	19007	1.175	ug/L	92
16) Methylene chloride	2.83	84	10941	0.238	ug/L #	60
21) 2-Butanone	4.64	43	46464	5.251	ug/L	95
22) cis-1,2-Dichloroethene	4.56	96	1860	0.053	ug/L	94
25) Chloroform	5.25	83	65039	0.985	ug/L #	19
27) 1,2-Dichloroethane	6.11	62	124795	2.939	ug/L #	75
30) Cyclohexane	5.55	56	621726	12.981	ug/L	99
33) Benzene	6.12	78	10385200	79.937	ug/L	100
34) Trichloroethene	7.24	95	13714	0.391	ug/L #	18
35) Methylcyclohexane	7.44	83	89607	1.889	ug/L #	68
37) 1,2-Dichloropropane	7.49	63	5081	0.156	ug/L	97
38) Bromodichloromethane	7.82	83	5242	0.120	ug/L #	50
39) cis-1,3-Dichloropropene	8.38	75	6188	0.131	ug/L #	34
40) 4-Methyl-2-pentanone	8.62	43	42848	2.243	ug/L #	93

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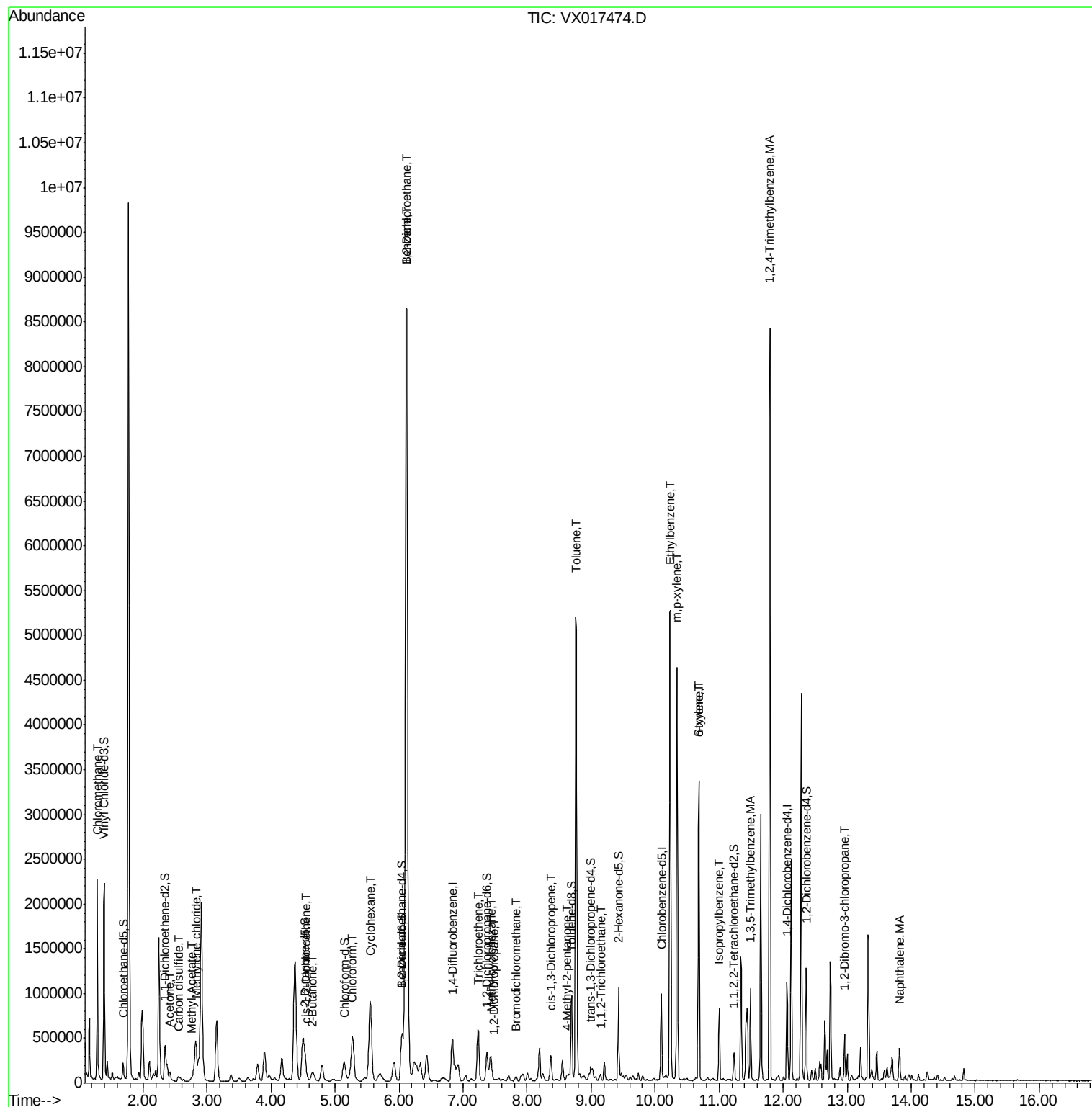
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	8.76	91	3341768	25.653	ug/L	98
43) 1,3,5-Trimethylbenzene	11.49	105	446759	3.681	ug/L	99
44) 1,2,4-Trimethylbenzene	11.79	105	3632618	30.227	ug/L	99
47) 1,1,2-Trichloroethane	9.15	97	25184	1.127	ug/L #	21
54) Ethylbenzene	10.24	91	3081426	21.811	ug/L	99
55) m,p-xylene	10.34	106	1022079	18.120	ug/L	98
56) o-xylene	10.68	106	702343	12.836	ug/L	96
57) Styrene	10.68	104	40468	0.444	ug/L #	1
58) Isopropylbenzene	11.00	105	400035	2.829	ug/L	100
67) 1,2-Dibromo-3-chloropropan	12.96	75	2055	0.355	ug/L #	6
70) Naphthalene	13.82	128	213859	2.792	ug/L	98

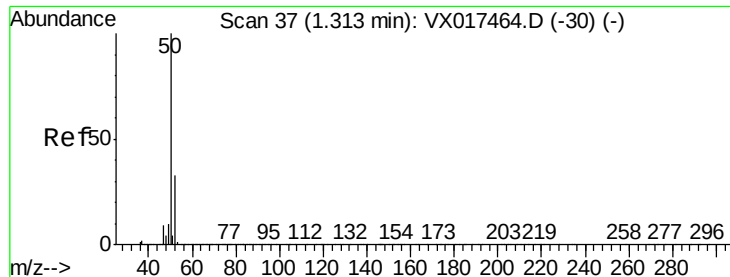
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.319 ug/L

RT: 1.28 min Scan# 32

Delta R.T. -0.03 min

Lab File: VX017474.D

Acq: 22 Jul 2020 18:43

Instrument :

MSVOA_X

ClientSampleId :

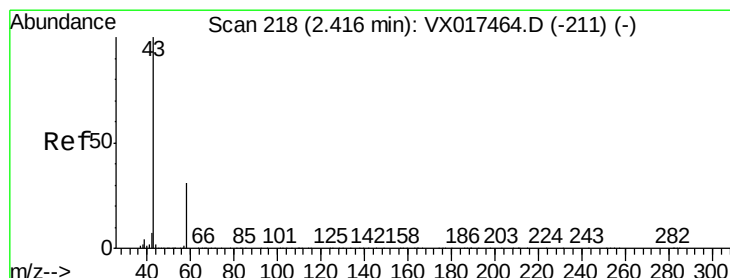
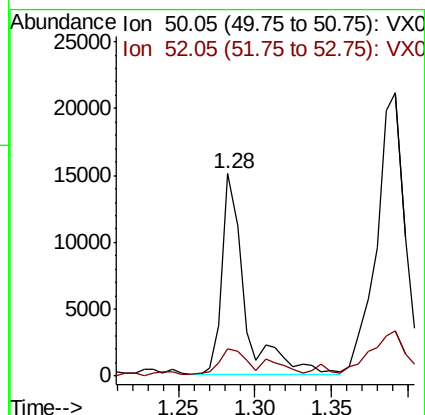
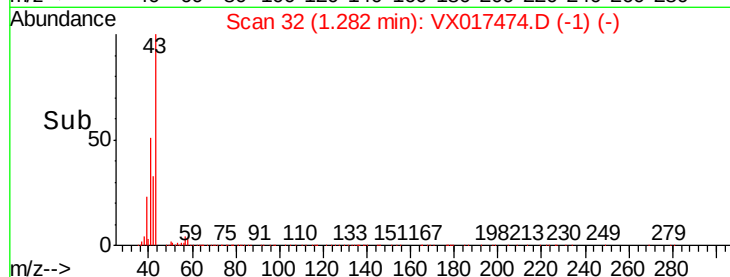
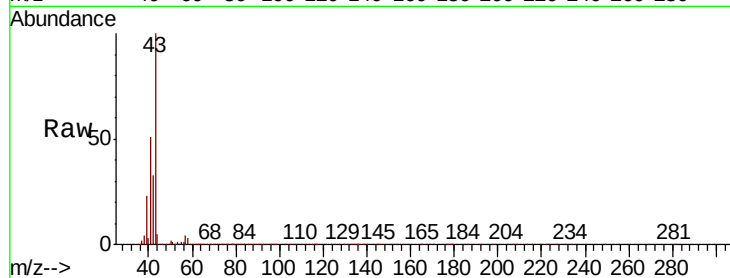
GAY23

Tot Ion: 50 Resp: 15450

Ion Ratio Lower Upper

50 100

52 13.7 23.2 43.2#



#13

Acetone

Concen: 19.313 ug/L

RT: 2.42 min Scan# 218

Delta R.T. 0.00 min

Lab File: VX017474.D

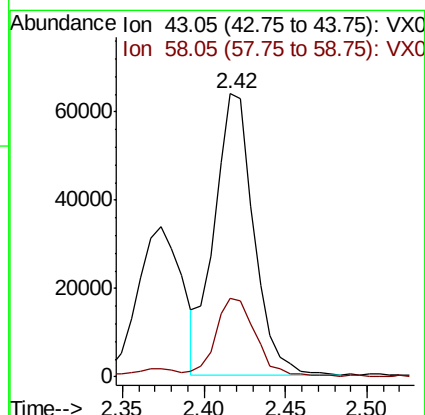
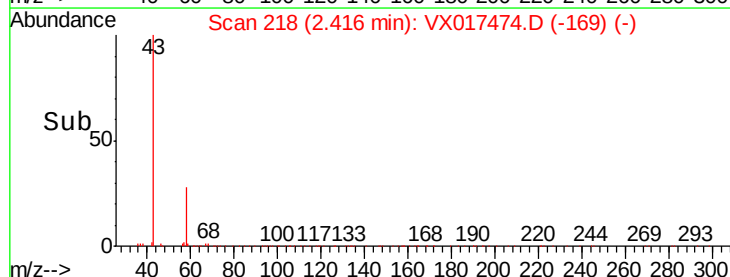
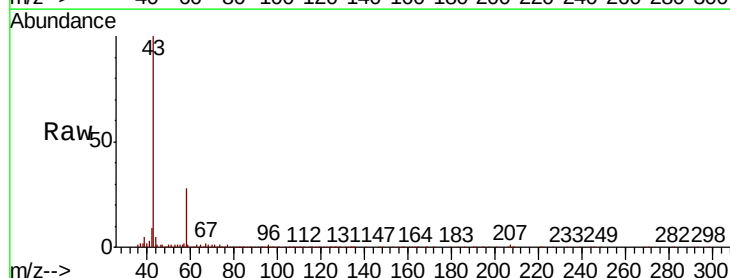
Acq: 22 Jul 2020 18:43

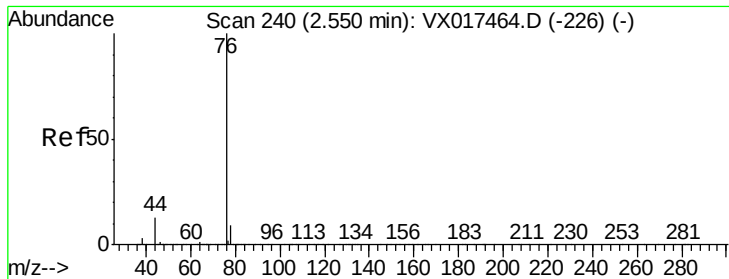
Tgt Ion: 43 Resp: 107288

Ion Ratio Lower Upper

43 100

58 28.5 0.0 58.6





#14

Carbon disulfide

Concen: 0.577 ug/L

RT: 2.55 min Scan# 240

Delta R.T. 0.00 min

Lab File: VX017474.D

Acq: 22 Jul 2020 18:43

Instrument :

MSVOA_X

ClientSampleId :

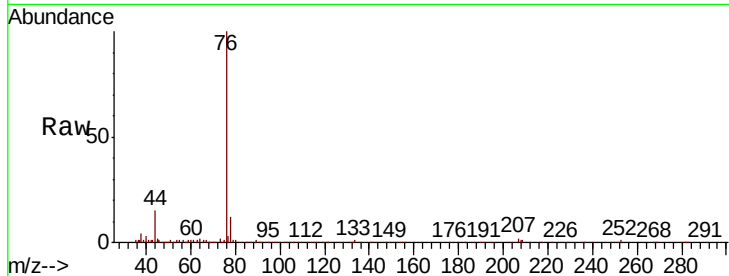
GAY23

Tot Ion: 76 Resp: 65610

Ion Ratio Lower Upper

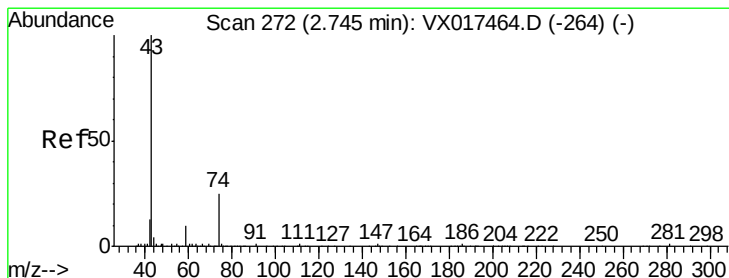
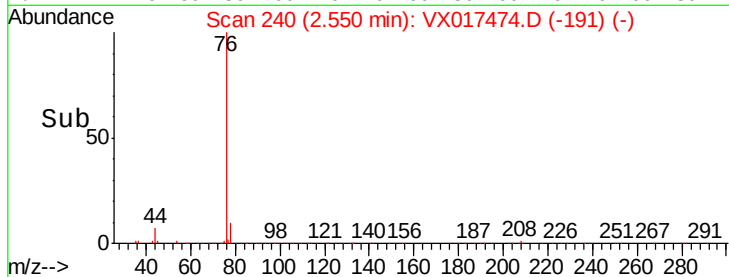
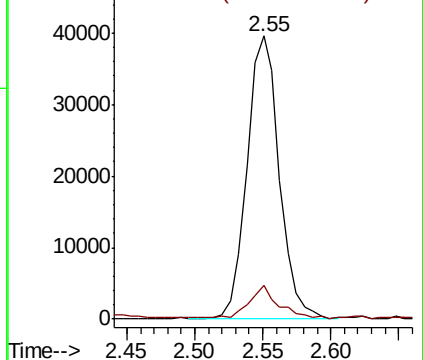
76 100

78 11.8 7.3 10.9#



Abundance Ion 76.05 (75.75 to 76.75): VX0

Ion 78.00 (77.70 to 78.70): VX0



#15

Methyl Acetate

Concen: 1.175 ug/L

RT: 2.75 min Scan# 272

Delta R.T. 0.00 min

Lab File: VX017474.D

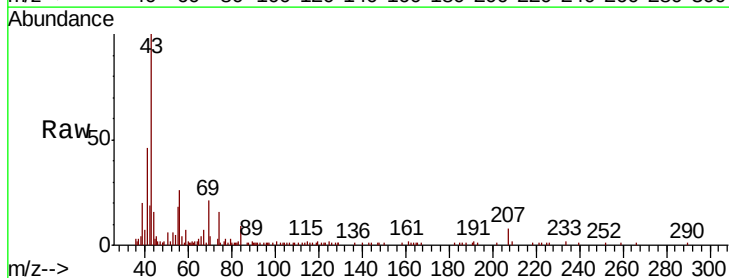
Acq: 22 Jul 2020 18:43

Tgt Ion: 43 Resp: 19007

Ion Ratio Lower Upper

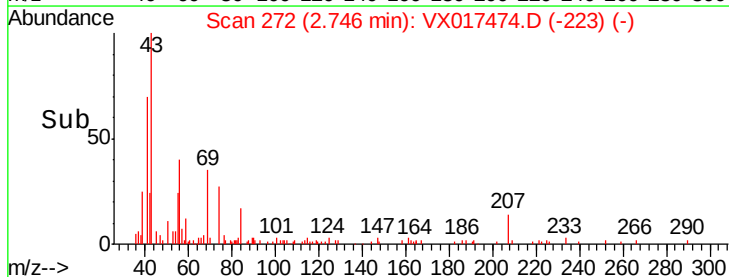
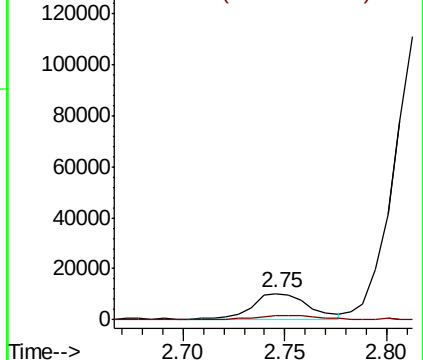
43 100

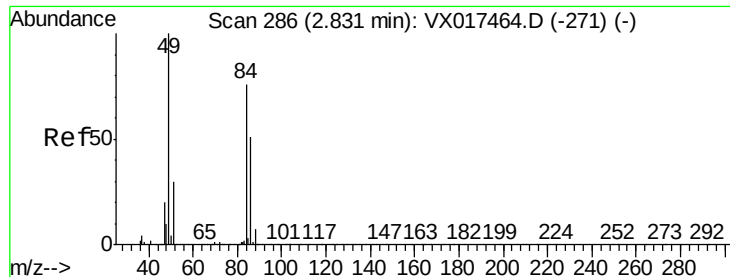
74 18.2 17.6 26.4



Abundance Ion 43.05 (42.75 to 43.75): VX0

Ion 74.05 (73.75 to 74.75): VX0

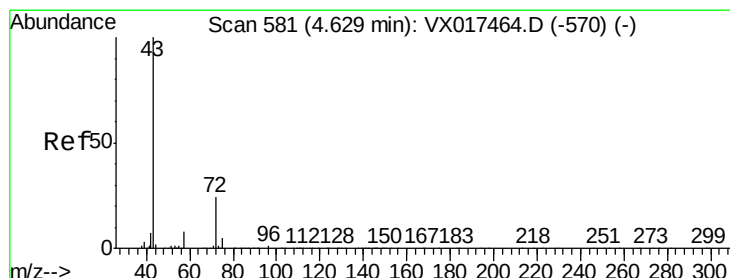
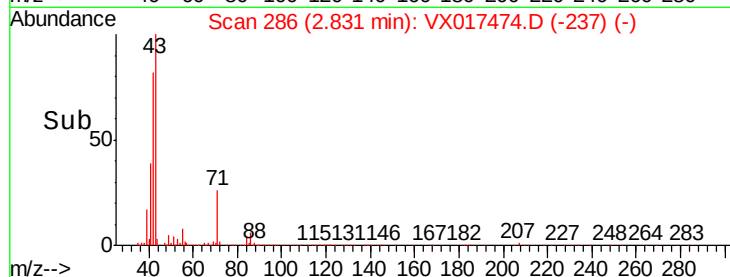
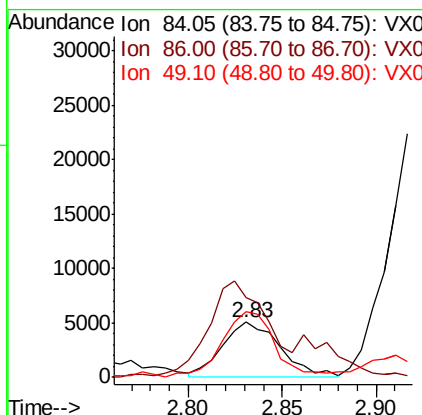
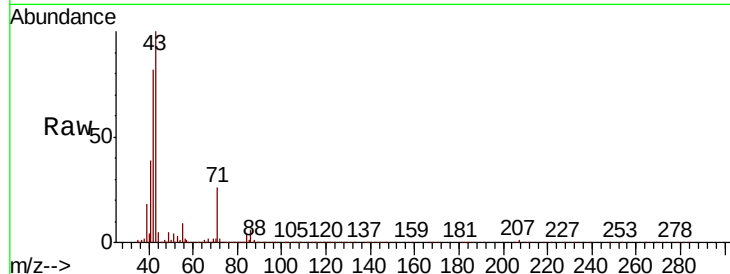




#16
Methylene chloride
Concen: 0.238 ug/L
RT: 2.83 min Scan# 286
Delta R.T. 0.00 min
Lab File: VX017474.D
Acq: 22 Jul 2020 18:43

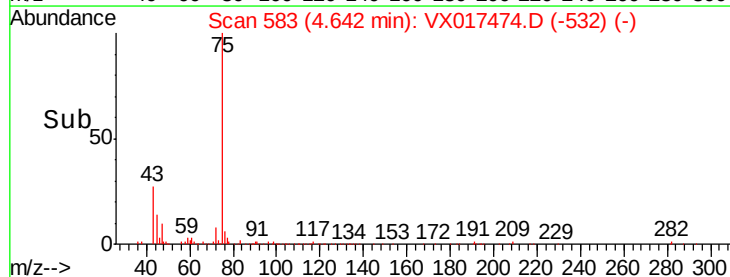
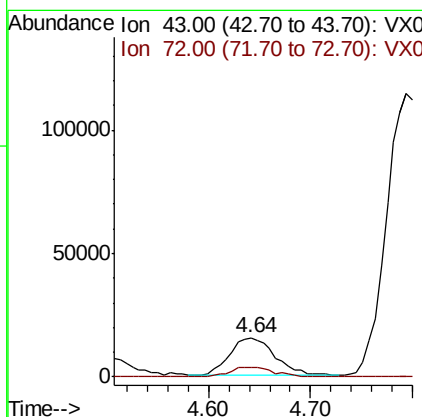
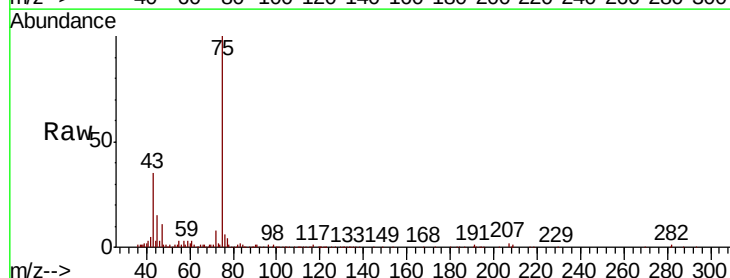
Instrument :
MSVOA_X
ClientSampleId :
GAY23

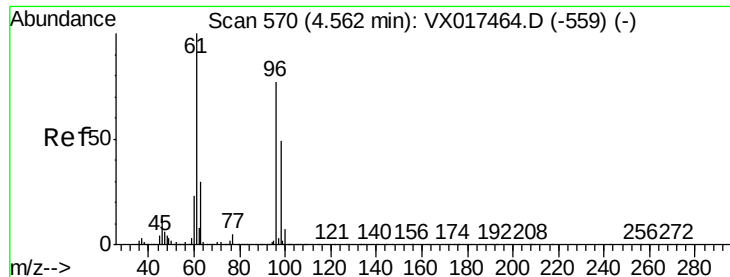
Tot Ion: 84 Resp: 10941
Ion Ratio Lower Upper
84 100
86 145.0 44.8 83.2#
49 120.3 81.0 150.4



#21
2-Butanone
Concen: 5.251 ug/L
RT: 4.64 min Scan# 583
Delta R.T. 0.01 min
Lab File: VX017474.D
Acq: 22 Jul 2020 18:43

Tgt Ion: 43 Resp: 46464
Ion Ratio Lower Upper
43 100
72 26.6 12.1 36.3





#22

cis-1,2-Dichloroethene

Concen: 0.053 ug/L

RT: 4.56 min Scan# 569

Delta R.T. -0.01 min

Lab File: VX017474.D

Acq: 22 Jul 2020 18:43

Instrument :

MSVOA_X

ClientSampleId :

GAY23

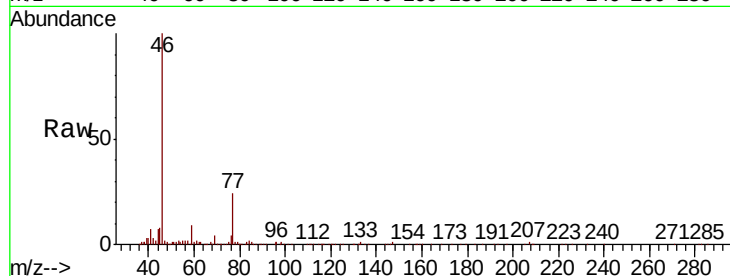
Tot Ion: 96 Resp: 1860

Ion Ratio Lower Upper

96 100

61 123.4 91.6 170.2

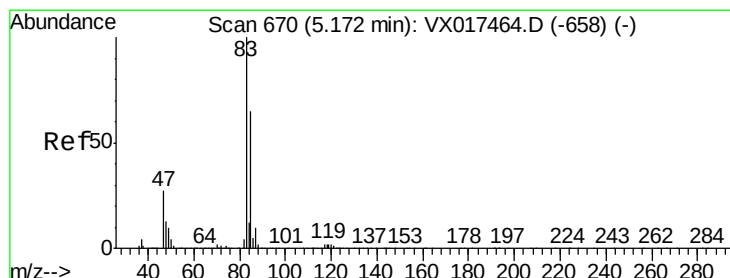
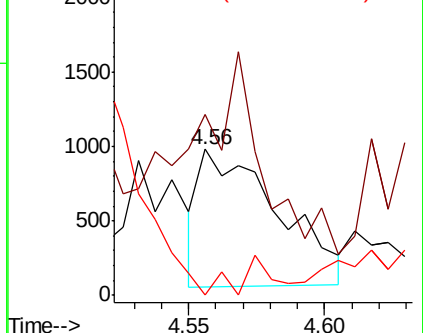
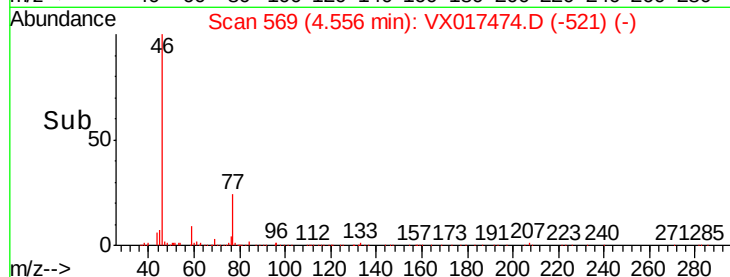
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VX0

Ion 61.05 (60.75 to 61.75): VX0

Ion 68.15 (67.85 to 68.85): VX0



#25

Chloroform

Concen: 0.985 ug/L

RT: 5.25 min Scan# 683

Delta R.T. 0.08 min

Lab File: VX017474.D

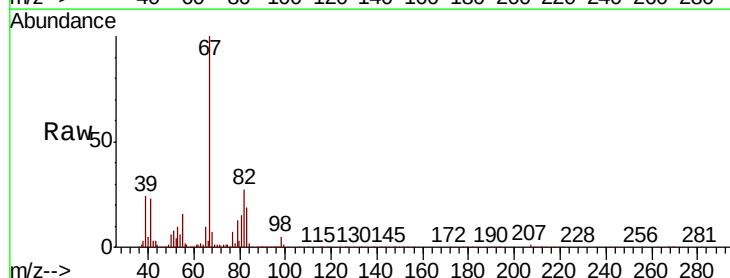
Acq: 22 Jul 2020 18:43

Tgt Ion: 83 Resp: 65039

Ion Ratio Lower Upper

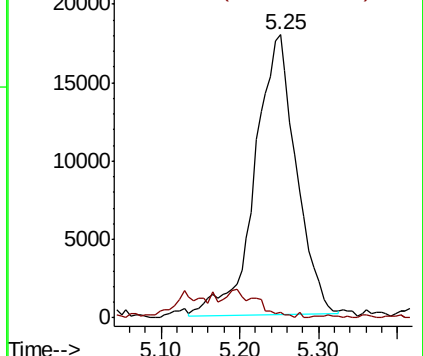
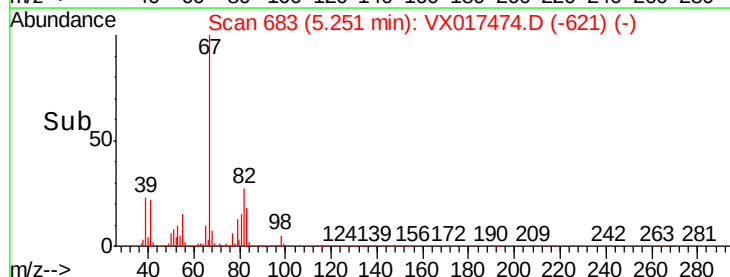
83 100

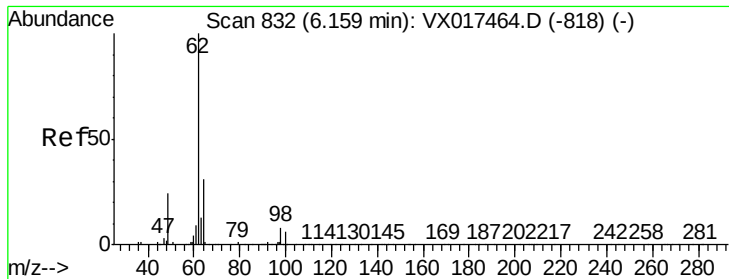
85 2.0 46.2 85.8#



Abundance Ion 83.05 (82.75 to 83.75): VX0

Ion 85.00 (84.70 to 85.70): VX0

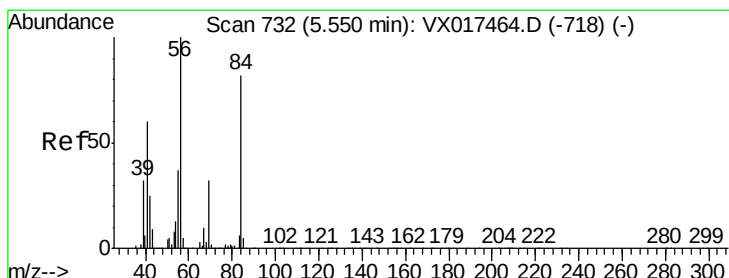
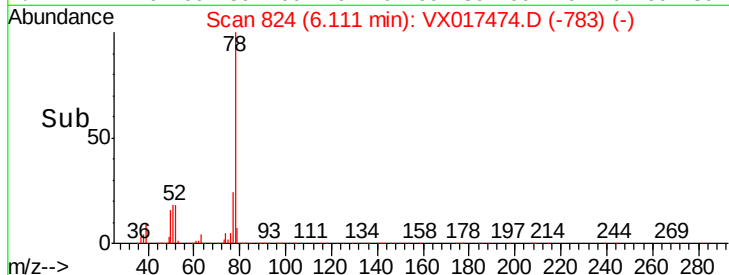
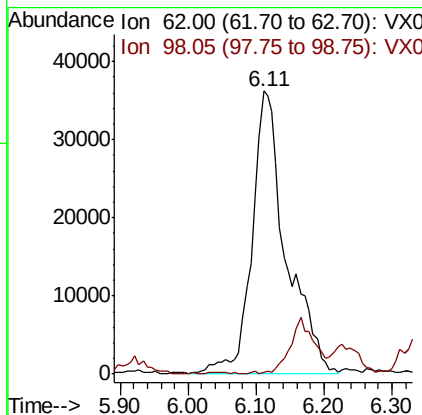
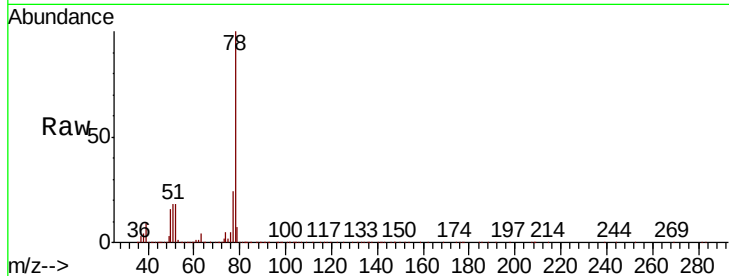




#27
 1,2-Dichloroethane
 Concen: 2.939 ug/L
 RT: 6.11 min Scan# 824
 Delta R.T. -0.05 min
 Lab File: VX017474.D
 Acq: 22 Jul 2020 18:43

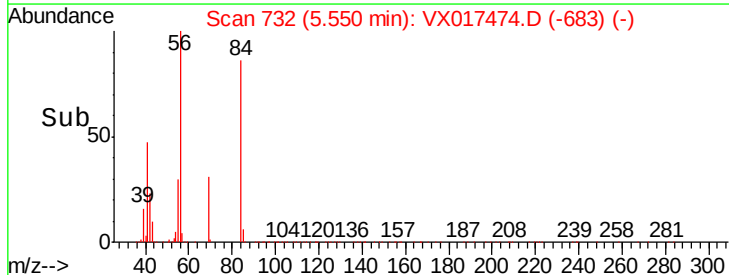
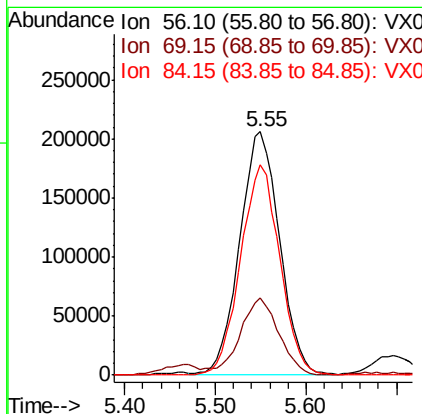
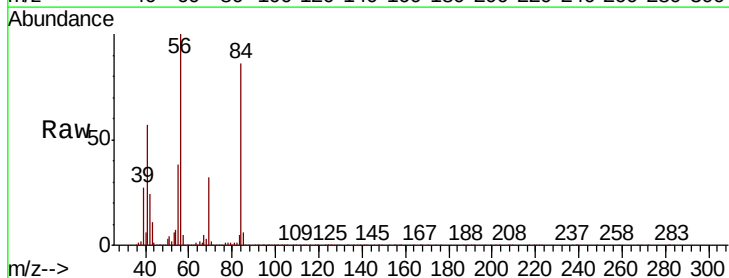
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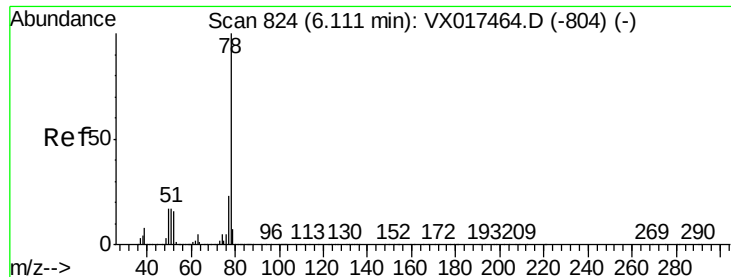
Tot Ion: 62 Resp: 124795
 Ion Ratio Lower Upper
 62 100
 98 0.5 7.7 11.5#



#30
 Cyclohexane
 Concen: 12.981 ug/L
 RT: 5.55 min Scan# 732
 Delta R.T. 0.00 min
 Lab File: VX017474.D
 Acq: 22 Jul 2020 18:43

Tgt Ion: 56 Resp: 621726
 Ion Ratio Lower Upper
 56 100
 69 30.3 25.4 38.2
 84 85.9 69.3 103.9





#33

Benzene

Concen: 79.937 ug/L

RT: 6.12 min Scan# 825

Delta R.T. 0.01 min

Lab File: VX017474.D

Acq: 22 Jul 2020 18:43

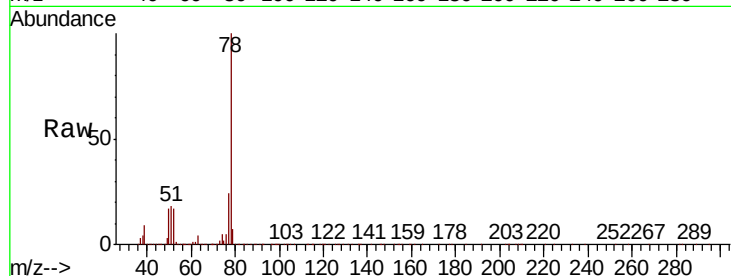
Instrument :

MSVOA_X

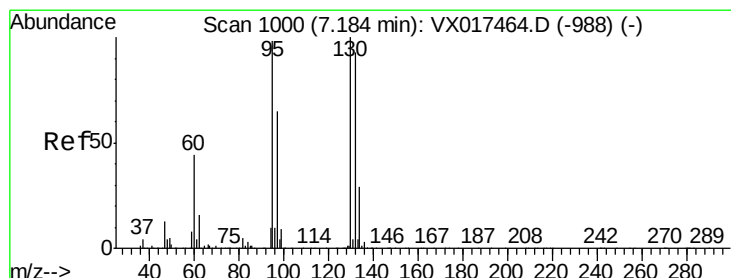
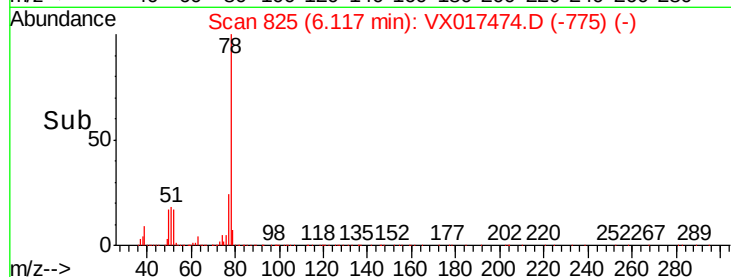
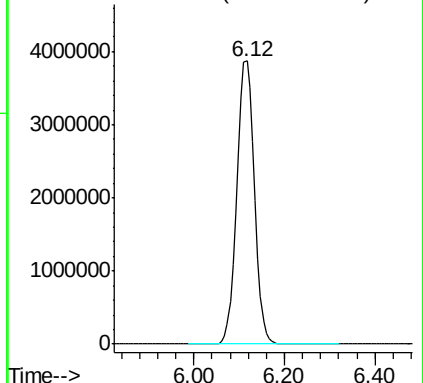
ClientSampleId :

GAY23

Tgt Ion: 78 Resp:10385200



Abundance Ion 78.10 (77.80 to 78.80): VX0



#34

Trichloroethene

Concen: 0.391 ug/L

RT: 7.24 min Scan# 1009

Delta R.T. 0.06 min

Lab File: VX017474.D

Acq: 22 Jul 2020 18:43

Tgt Ion: 95 Resp: 13714

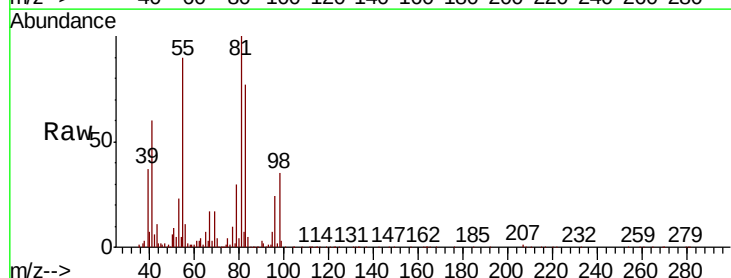
Ion Ratio Lower Upper

95 100

97 33.5 45.9 85.3#

132 2.3 65.5 121.7#

130 0.0 66.5 123.5#

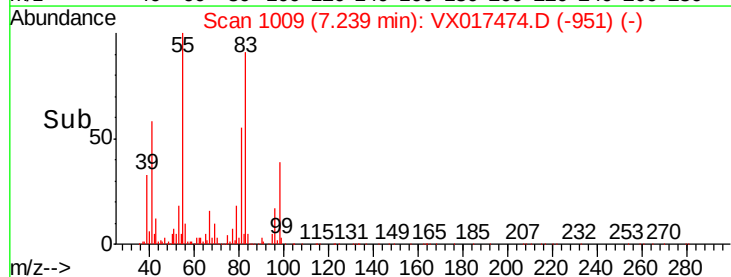
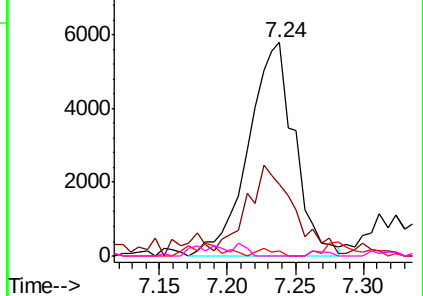


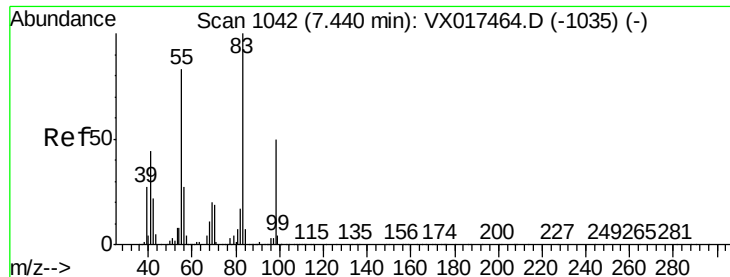
Abundance Ion 95.00 (94.70 to 95.70): VX0

Ion 96.95 (96.65 to 97.65): VX0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V





#35

Methylcyclohexane

Concen: 1.889 ug/L

RT: 7.44 min Scan# 1042

Delta R.T. 0.00 min

Lab File: VX017474.D

Acq: 22 Jul 2020 18:43

Instrument :

MSVOA_X

ClientSampled :

GAY23

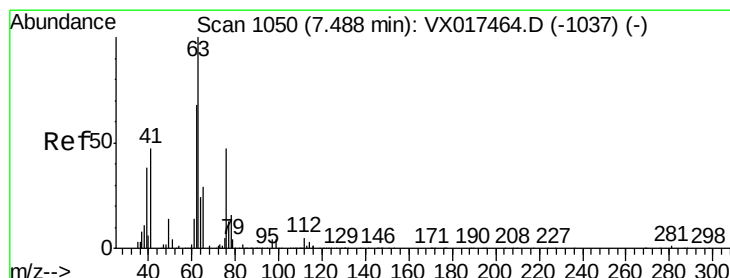
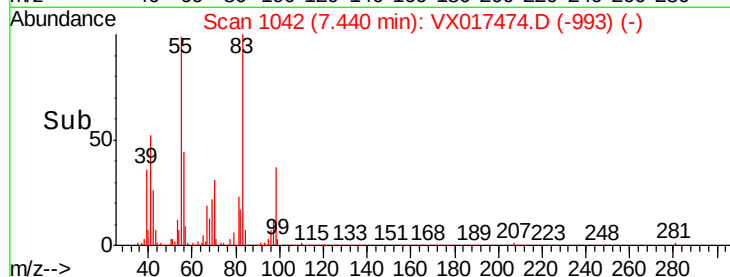
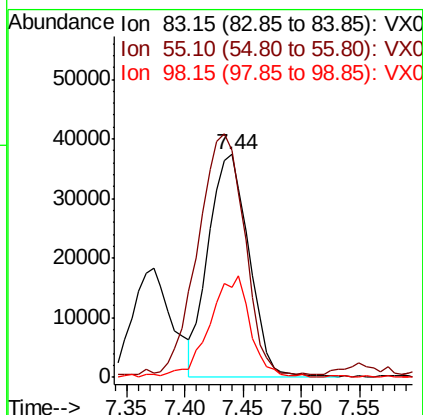
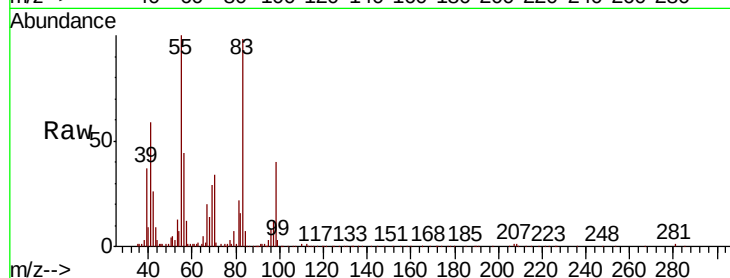
Tot Ion: 83 Resp: 89607

Ion Ratio Lower Upper

83 100

55 125.1 65.4 98.2#

98 45.7 39.8 59.8



#37

1,2-Dichloropropane

Concen: 0.156 ug/L

RT: 7.49 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VX017474.D

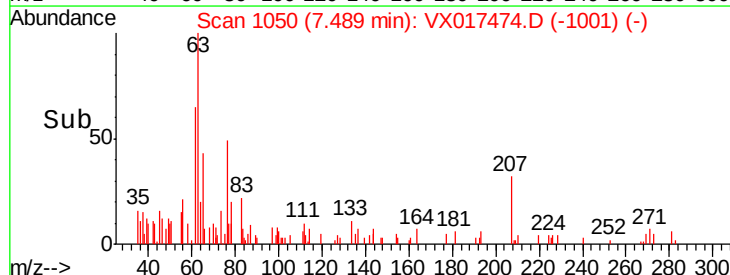
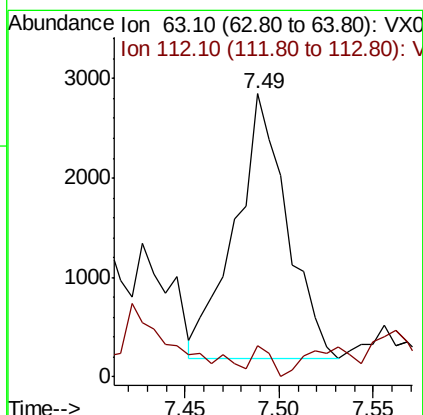
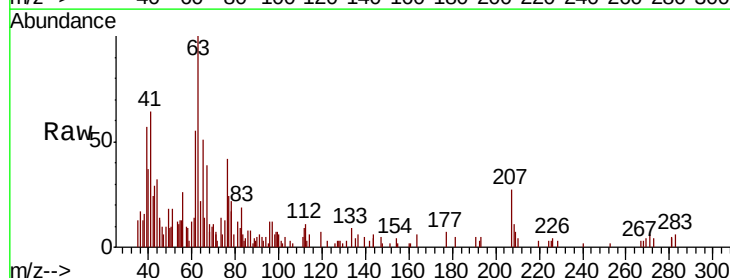
Acq: 22 Jul 2020 18:43

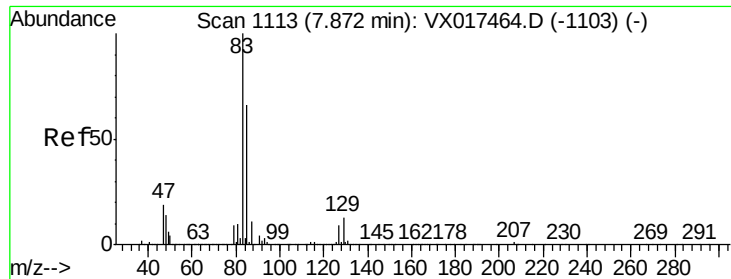
Tgt Ion: 63 Resp: 5081

Ion Ratio Lower Upper

63 100

112 4.0 3.8 5.8





#38

Bromodichloromethane

Concen: 0.120 ug/L

RT: 7.82 min Scan# 1105

Delta R.T. -0.05 min

Lab File: VX017474.D

Acq: 22 Jul 2020 18:43

Instrument :

MSVOA_X

ClientSampleId :

GAY23

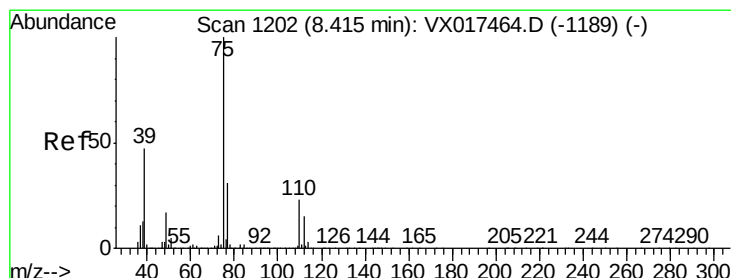
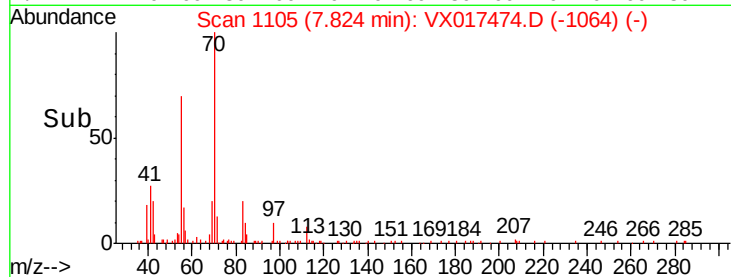
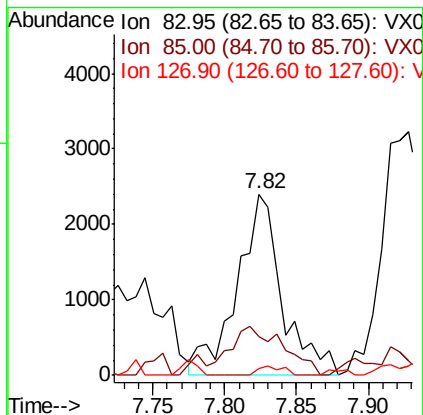
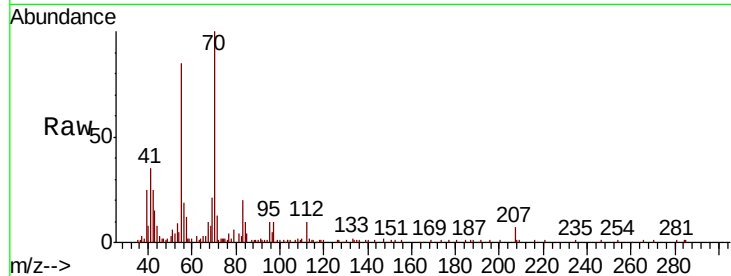
Tot Ion: 83 Resp: 5242

Ion Ratio Lower Upper

83 100

85 21.1 44.7 83.1#

127 3.7 6.3 9.5#



#39

cis-1,3-Dichloropropene

Concen: 0.131 ug/L

RT: 8.38 min Scan# 1196

Delta R.T. -0.04 min

Lab File: VX017474.D

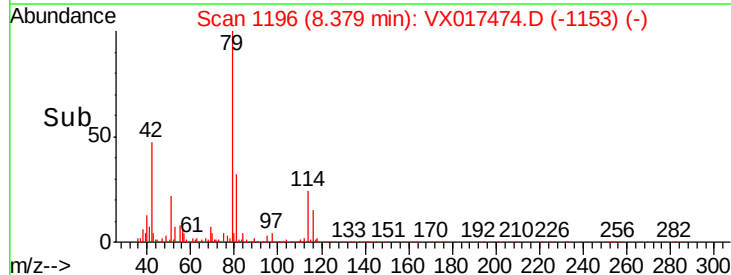
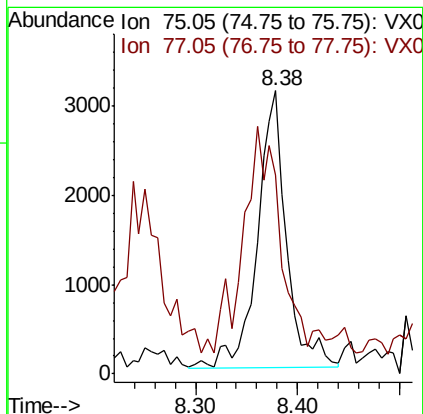
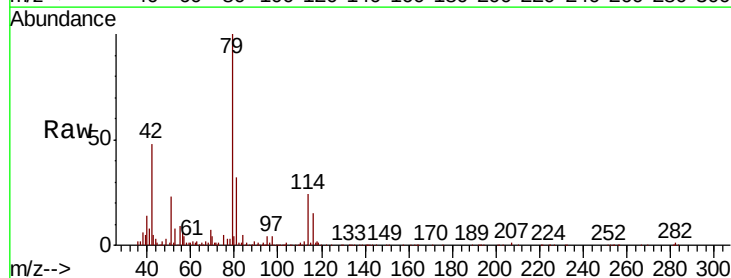
Acq: 22 Jul 2020 18:43

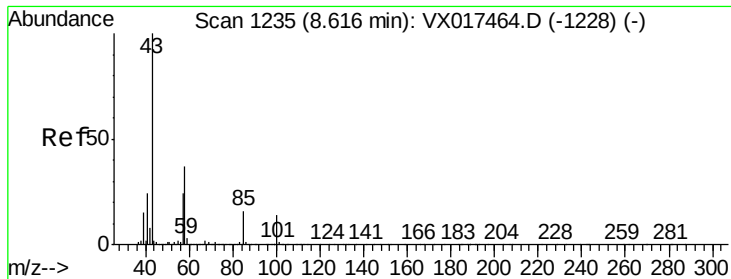
Tgt Ion: 75 Resp: 6188

Ion Ratio Lower Upper

75 100

77 70.4 23.1 42.9#

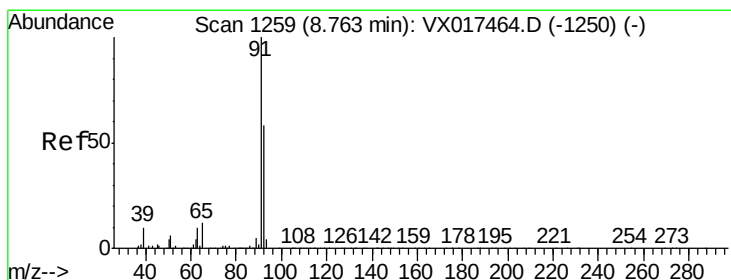
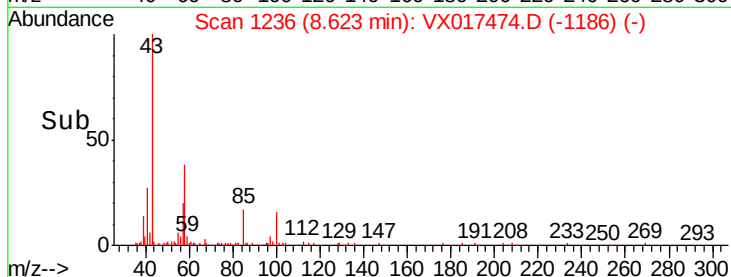
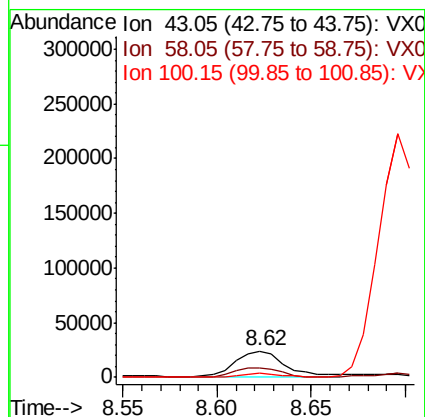
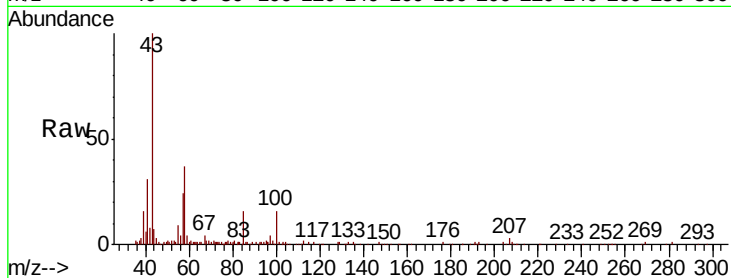




#40
4-Methyl-2-pentanone
Concen: 2.243 ug/L
RT: 8.62 min Scan# 1236
Delta R.T. 0.01 min
Lab File: VX017474.D
Acq: 22 Jul 2020 18:43

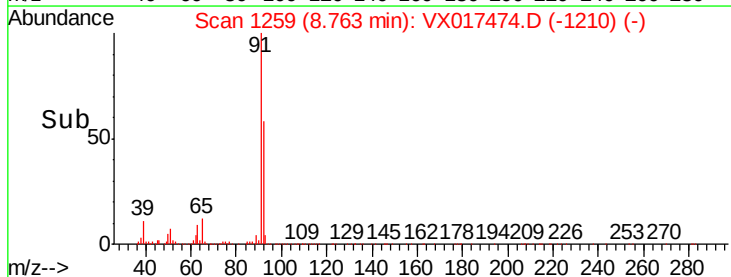
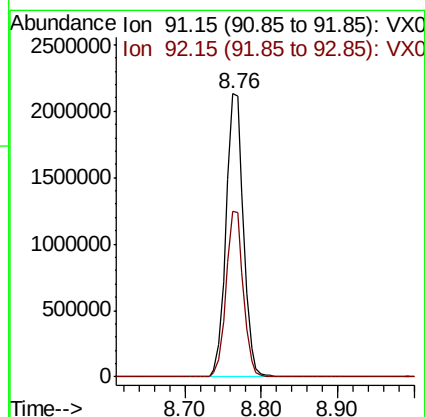
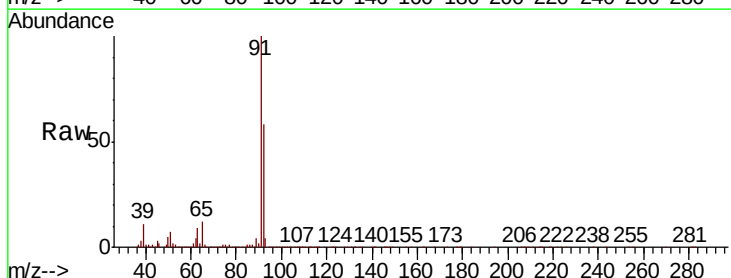
Instrument :
MSVOA_X
ClientSampleId :
GAY23

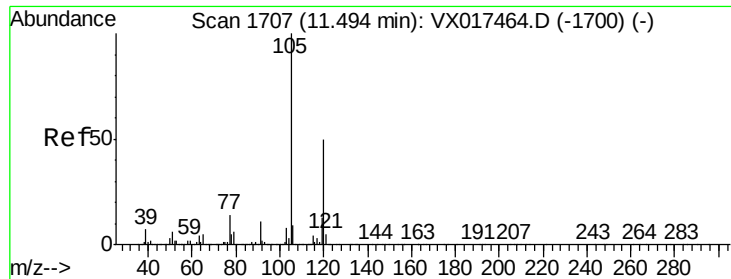
Tot Ion: 43 Resp: 42848
Ion Ratio Lower Upper
43 100
58 35.3 30.1 45.1
100 0.0 6.5 9.7#



#42
Toluene
Concen: 25.653 ug/L
RT: 8.76 min Scan# 1259
Delta R.T. 0.00 min
Lab File: VX017474.D
Acq: 22 Jul 2020 18:43

Tgt Ion: 91 Resp: 3341768
Ion Ratio Lower Upper
91 100
92 58.4 39.9 74.1





#43

1,3,5-Trimethylbenzene

Concen: 3.681 ug/L

RT: 11.49 min Scan# 1706

Delta R.T. -0.01 min

Lab File: VX017474.D

Acq: 22 Jul 2020 18:43

Instrument :

MSVOA_X

ClientSampleId :

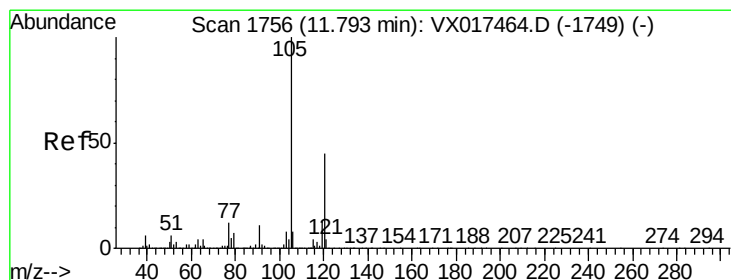
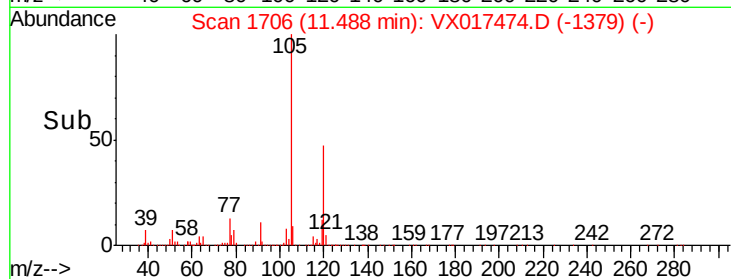
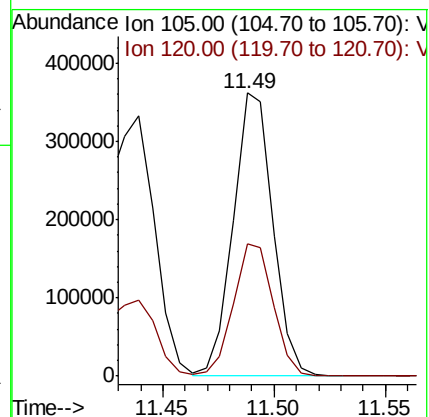
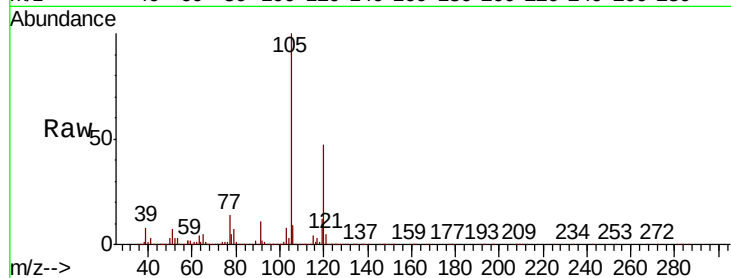
GAY23

Tot Ion:105 Resp: 446759

Ion Ratio Lower Upper

105 100

120 46.9 38.2 57.2



#44

1,2,4-Trimethylbenzene

Concen: 30.227 ug/L

RT: 11.79 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VX017474.D

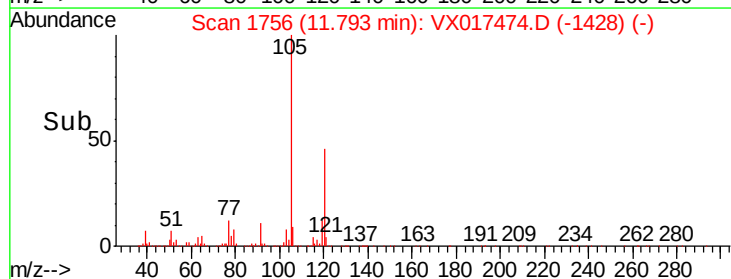
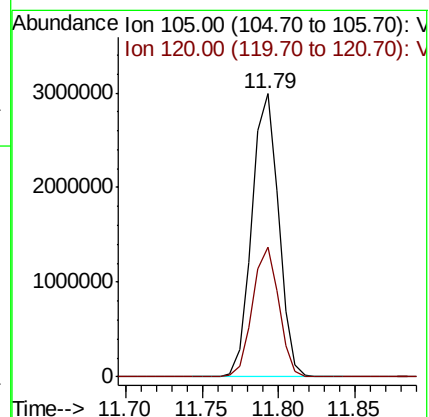
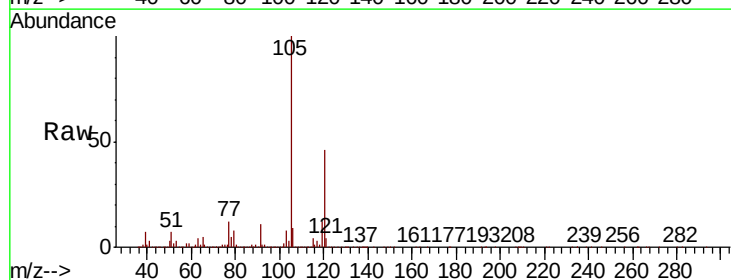
Acq: 22 Jul 2020 18:43

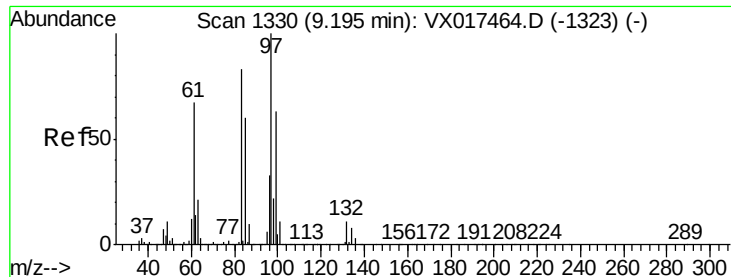
Tgt Ion:105 Resp: 3632618

Ion Ratio Lower Upper

105 100

120 45.0 36.5 54.7





#47

1,1,2-Trichloroethane

Concen: 1.127 ug/L

RT: 9.15 min Scan# 1322

Delta R.T. -0.05 min

Lab File: VX017474.D

Acq: 22 Jul 2020 18:43

Instrument :

MSVOA_X

ClientSampleId :

GAY23

Tot Ion: 97 Resp: 25184

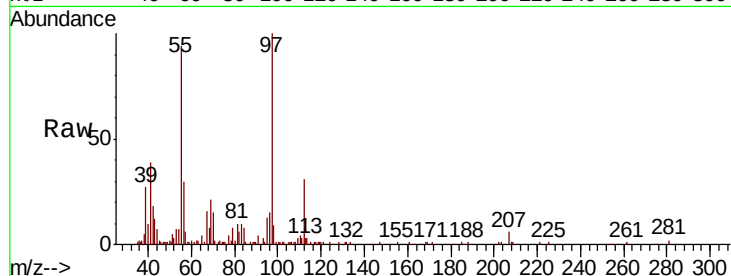
Ion Ratio Lower Upper

97 100

99 0.5 40.2 74.6#

83 10.0 61.6 114.4#

85 1.3 37.5 69.6#

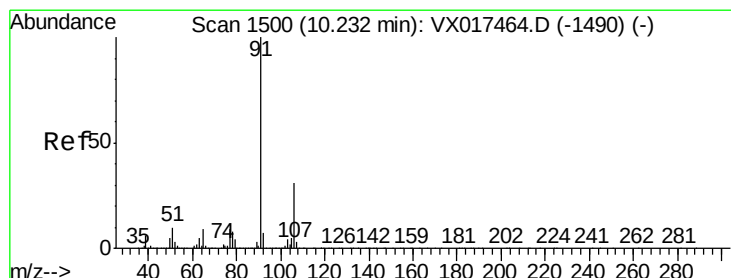
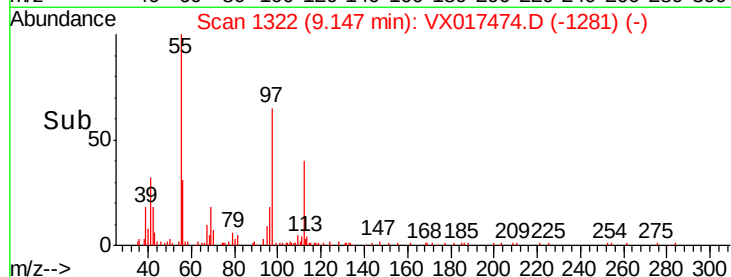
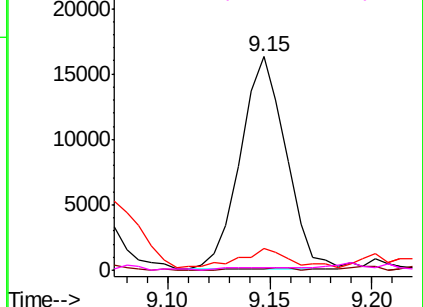


Abundance Ion 96.95 (96.65 to 97.65): VX0

Ion 99.05 (98.75 to 99.75): VX0

Ion 82.95 (82.65 to 83.65): VX0

Ion 85.00 (84.70 to 85.70): VX0



#54

Ethylbenzene

Concen: 21.811 ug/L

RT: 10.24 min Scan# 1501

Delta R.T. 0.01 min

Lab File: VX017474.D

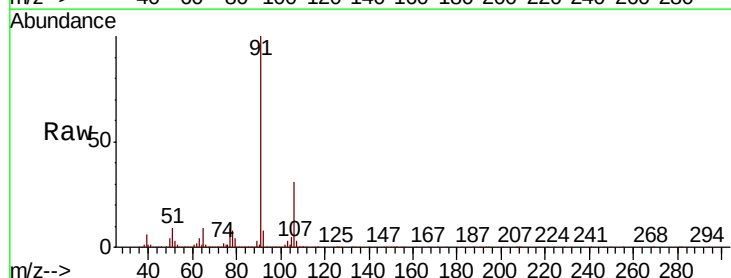
Acq: 22 Jul 2020 18:43

Tgt Ion: 91 Resp: 3081426

Ion Ratio Lower Upper

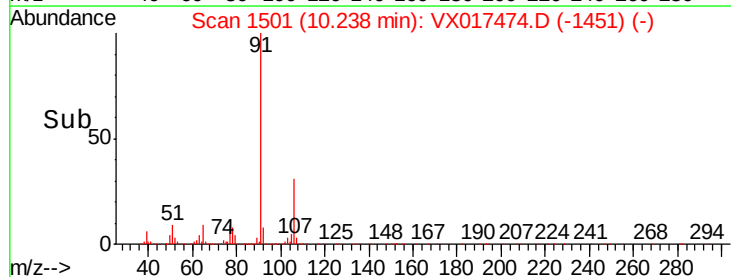
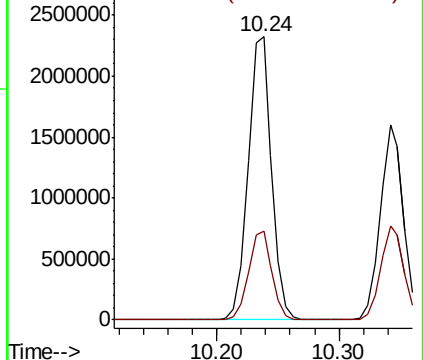
91 100

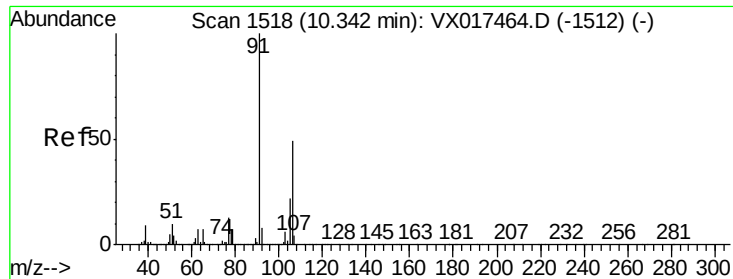
106 31.3 22.5 41.7



Abundance Ion 91.15 (90.85 to 91.85): VX0

Ion 106.15 (105.85 to 106.85): V





#55

m,p-xylene

Concen: 18.120 ug/L

RT: 10.34 min Scan# 1518

Delta R.T. 0.00 min

Lab File: VX017474.D

Acq: 22 Jul 2020 18:43

Instrument :

MSVOA_X

ClientSampleId :

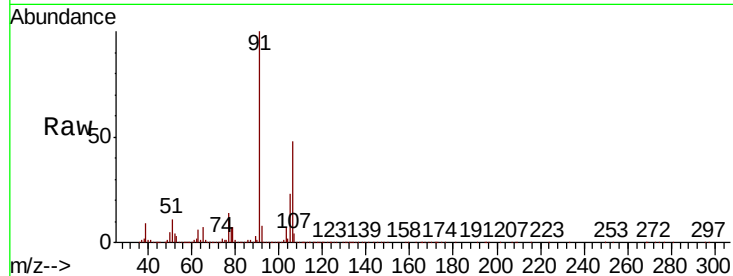
GAY23

Tot Ion:106 Resp: 1022079

Ion Ratio Lower Upper

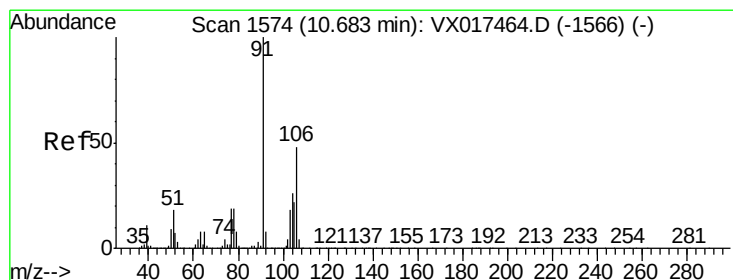
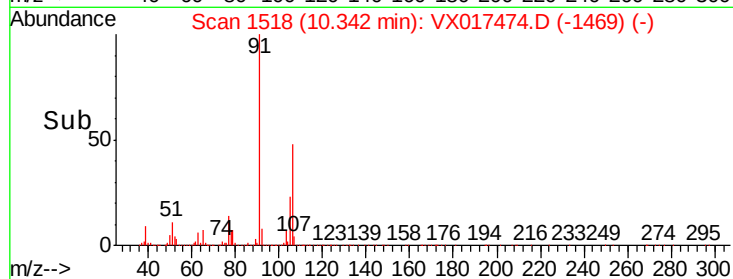
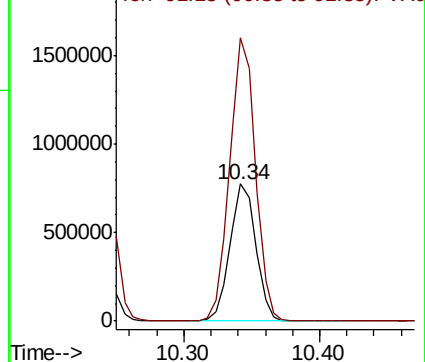
106 100

91 206.8 142.7 264.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0



#56

o-xylene

Concen: 12.836 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. 0.00 min

Lab File: VX017474.D

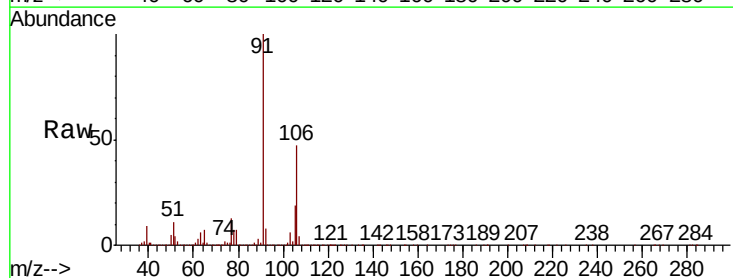
Acq: 22 Jul 2020 18:43

Tgt Ion:106 Resp: 702343

Ion Ratio Lower Upper

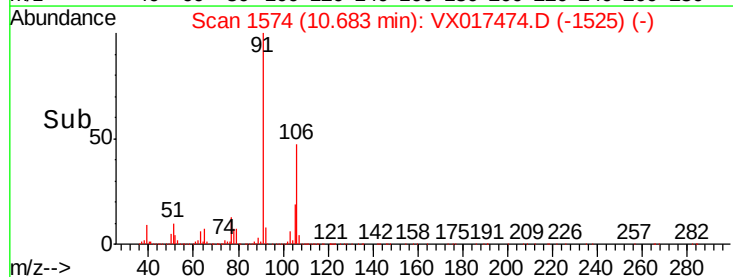
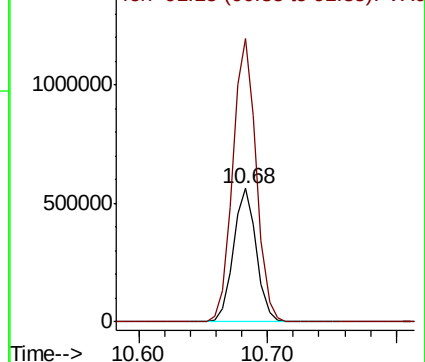
106 100

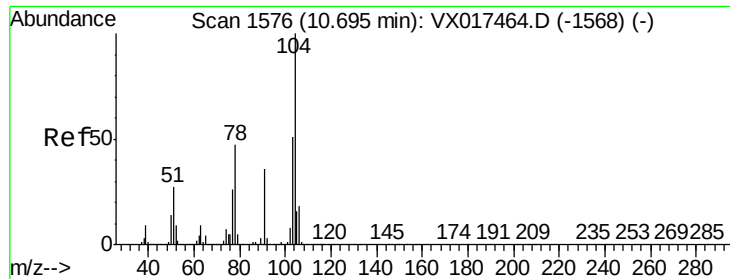
91 212.5 153.4 284.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VX0





#57

Stvrene

Concen: 0.444 ug/L

RT: 10.68 min Scan# 1574

Delta R.T. -0.01 min

Lab File: VX017474.D

Acq: 22 Jul 2020 18:43

Instrument :

MSVOA_X

ClientSampled :

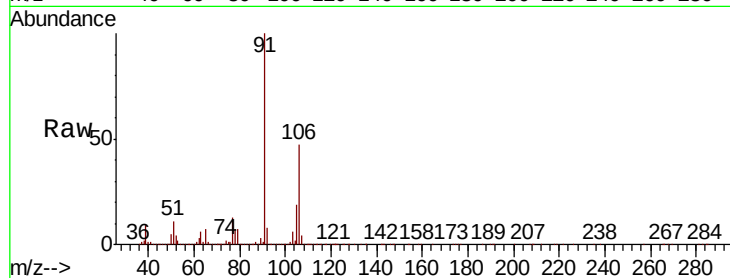
GAY23

Tot Ion:104 Resp: 40468

Ion Ratio Lower Upper

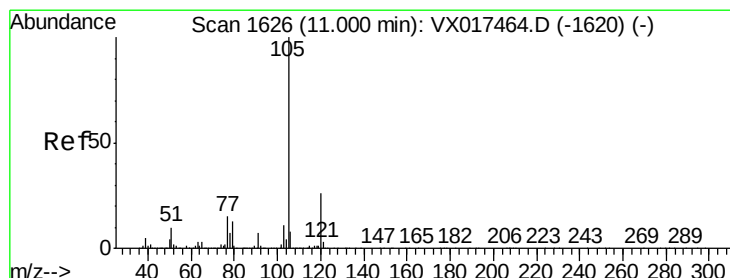
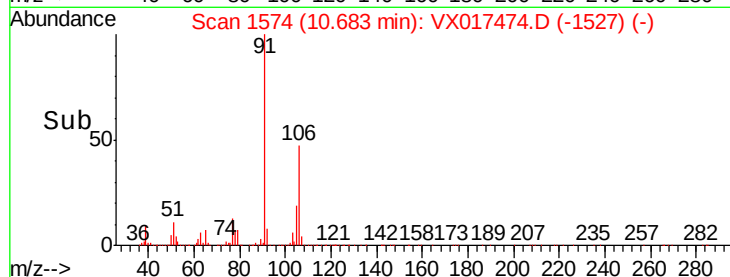
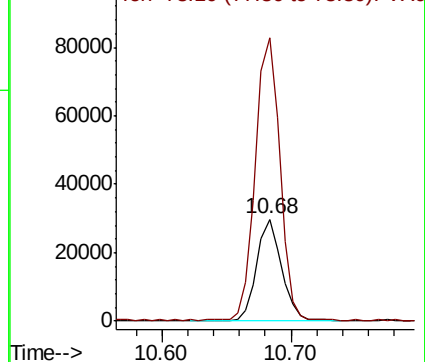
104 100

78 277.2 32.6 60.6#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VX0



#58

Isopropylbenzene

Concen: 2.829 ug/L

RT: 11.00 min Scan# 1626

Delta R.T. 0.00 min

Lab File: VX017474.D

Acq: 22 Jul 2020 18:43

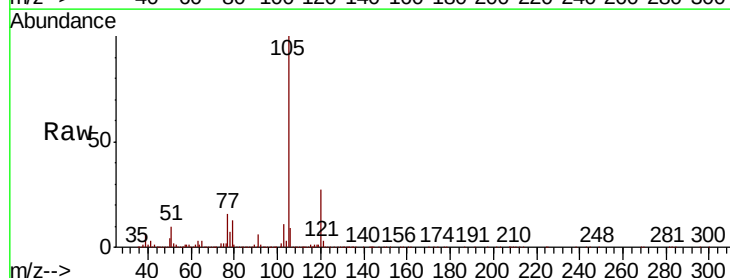
Tgt Ion:105 Resp: 400035

Ion Ratio Lower Upper

105 100

120 27.0 21.4 32.2

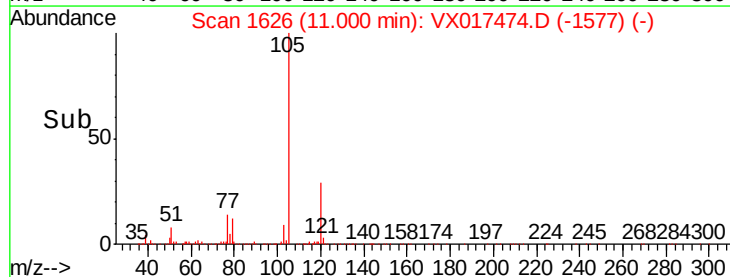
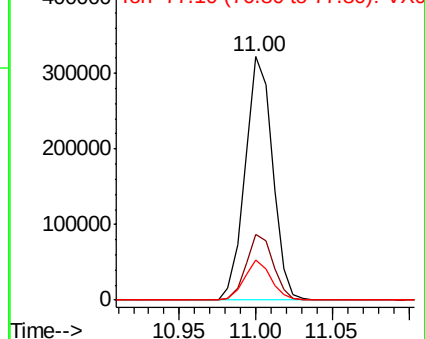
77 16.2 13.0 19.6

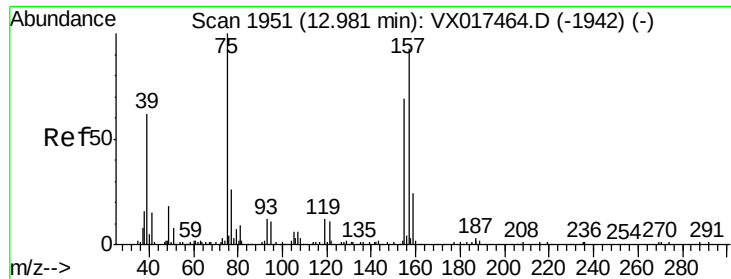


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VX0





#67

1,2-Dibromo-3-chloropropane

Concen: 0.355 ug/L

RT: 12.96 min Scan# 1948

Delta R.T. -0.02 min

Lab File: VX017474.D

Acq: 22 Jul 2020 18:43

Instrument :

MSVOA_X

ClientSampled :

GAY23

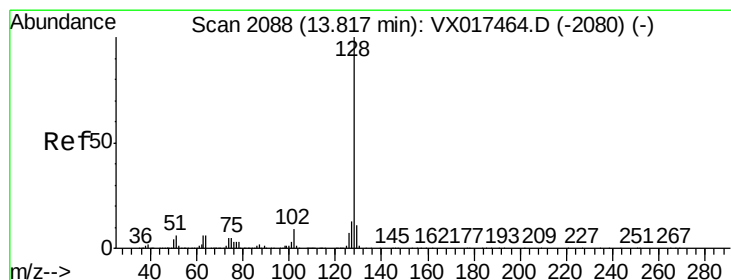
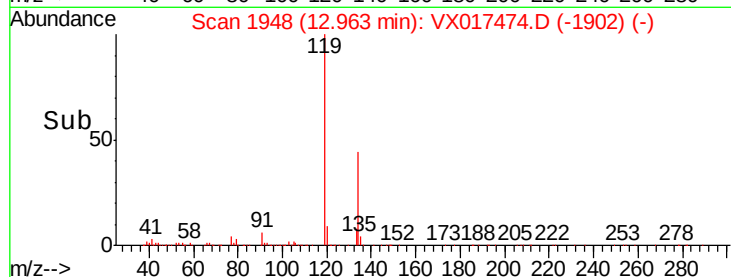
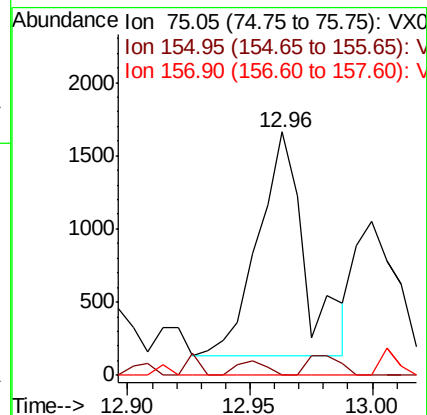
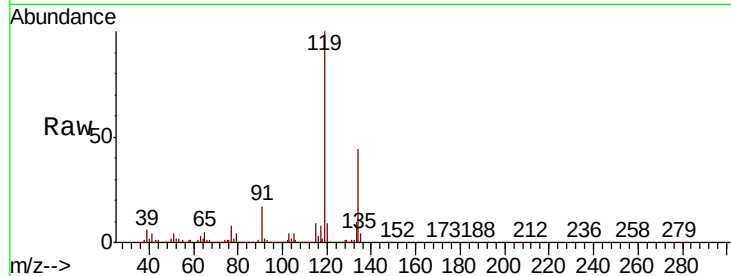
Tot Ion: 75 Resp: 2055

Ion Ratio Lower Upper

75 100

155 0.0 59.6 89.4#

157 0.0 78.7 118.1#



#70

Naphthalene

Concen: 2.792 ug/L

RT: 13.82 min Scan# 2088

Delta R.T. 0.00 min

Lab File: VX017474.D

Acq: 22 Jul 2020 18:43

Tgt Ion: 128 Resp: 213859

Ion Ratio Lower Upper

128 100

129 12.0 8.7 13.1

127 13.5 10.2 15.4

