

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV070120\
 Data File : VV017296.D
 Acq On : 01 Jul 2020 17:58
 Operator : SY/MD
 Sample : L3168-14
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 C0AK0

Quant Time: Jul 02 03:09:18 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Thu Jul 02 03:02:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	185530	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	179090	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	86924	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	44051	3.96	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.20%
7) Chloroethane-d5	1.58	69	39009	4.82	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	96.40%
11) 1,1-Dichloroethene-d2	2.13	63	66643	3.14	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	62.80%
20) 2-Butanone-d5	3.92	46	126102	44.43	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	88.86%
24) Chloroform-d	4.38	84	109939	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.40%
26) 1,2-Dichloroethane-d4	5.06	65	60196	4.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.40%
32) Benzene-d6	5.08	84	196473	4.23	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.60%
36) 1,2-Dichloropropane-d6	6.10	67	60716	4.36	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	87.20%
41) Toluene-d8	7.34	98	174758	4.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.20%
45) trans-1,3-Dichloropropene-	7.64	79	22843	3.94	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	78.80%
48) 2-Hexanone-d5	8.11	63	83042	37.62	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	75.24%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	41151	4.45	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.00%
65) 1,2-Dichlorobenzene-d4	11.65	152	73220	4.56	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.20%

Target Compounds

					Ovalue
8) Chloroethane	1.57	64	20311	3.019 ug/L #	56
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	757	0.077 ug/L #	31
12) 1,1-Dichloroethene	2.12	96	994	0.112 ug/L #	1
13) Acetone	2.20	43	21982	15.323 ug/L	99
15) Methyl Acetate	2.39	43	1969	0.561 ug/L #	62
16) Methylene chloride	2.53	84	2445	0.256 ug/L	95
21) 2-Butanone	4.02	43	10801	3.994 ug/L	94
22) cis-1,2-Dichloroethene	3.95	96	17459	1.353 ug/L	91
25) Chloroform	4.41	83	13833	0.597 ug/L	92
29) 1,1,1-Trichloroethane	4.63	97	2695	0.126 ug/L #	80
33) Benzene	5.14	78	6402	0.136 ug/L	100
34) Trichloroethene	5.94	95	498615	36.307 ug/L	98
35) Methylcyclohexane	6.10	83	16019	0.750 ug/L #	19
39) cis-1,3-Dichloropropene	7.01	75	2090	0.121 ug/L #	75
42) Toluene	7.41	91	69020	1.266 ug/L	98
43) 1,3,5-Trimethylbenzene	10.94	105	7785	0.160 ug/L	94
44) 1,2,4-Trimethylbenzene	10.94	105	7785	0.157 ug/L	99

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Quant Title : TRACE VOA SOM01.0
QLast Update : Thu Jul 02 03:02:49 2020
Response via : Initial Calibration

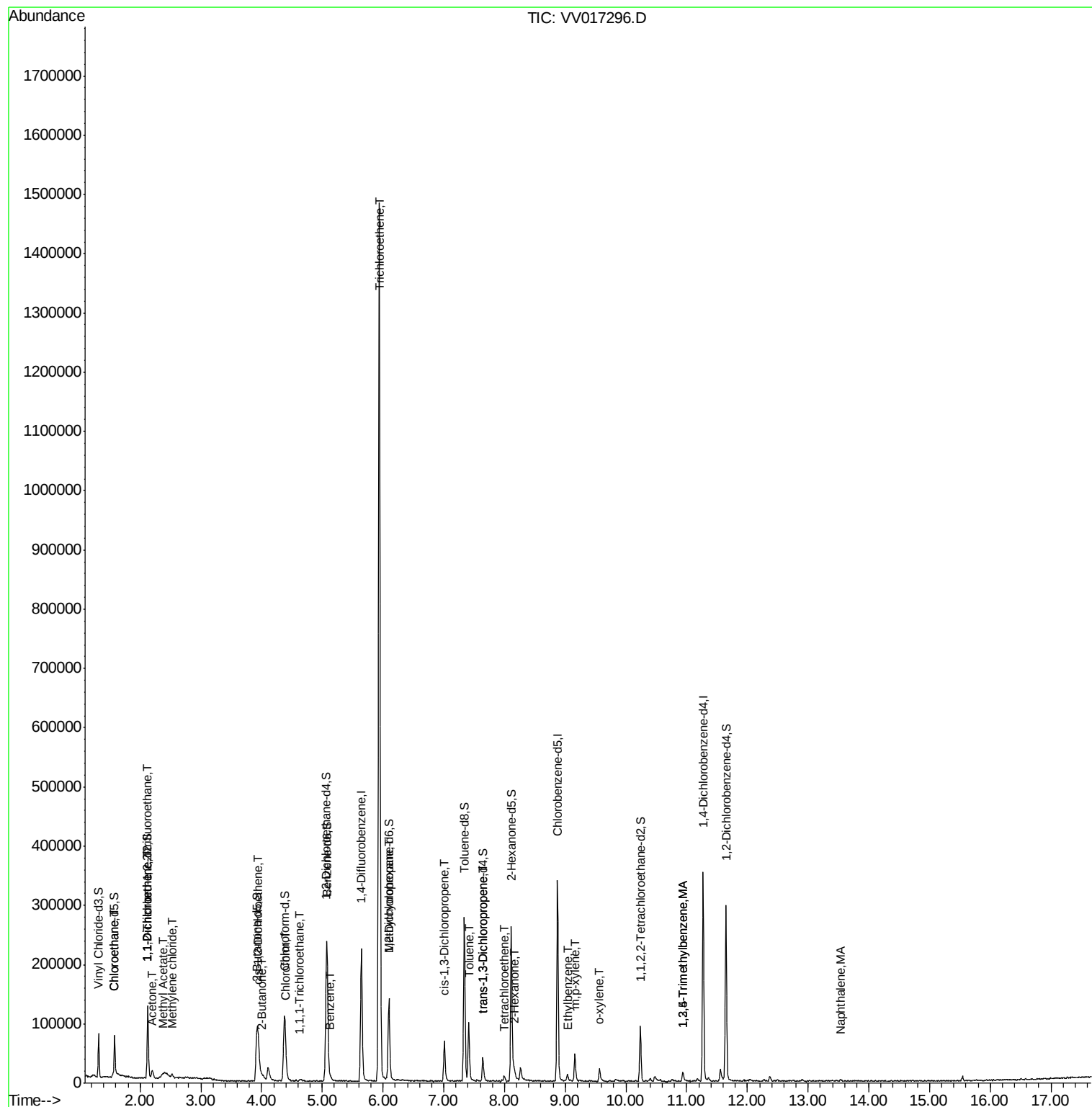
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) trans-1,3-Dichloropropene	7.64	75	1100	0.074	ug/L	84
49) Tetrachloroethene	8.00	164	1908	0.173	ug/L	91
50) 2-Hexanone	8.17	43	8595	1.802	ug/L #	45
54) Ethylbenzene	9.03	91	6870	0.118	ug/L	99
55) m,p-xylene	9.16	106	12377	0.542	ug/L	95
56) o-xylene	9.57	106	5514	0.259	ug/L	99
70) Naphthalene	13.53	128	2183	0.089	ug/L #	85

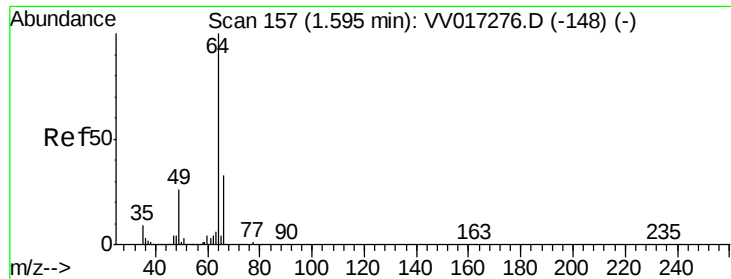
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#8

Chloroethane

Concen: 3.019 ug/L

RT: 1.57 min Scan# 149

Delta R.T. -0.03 min

Lab File: VV017296.D

Acq: 01 Jul 2020 17:58

Instrument :

MSVOA_V

ClientSampleId :

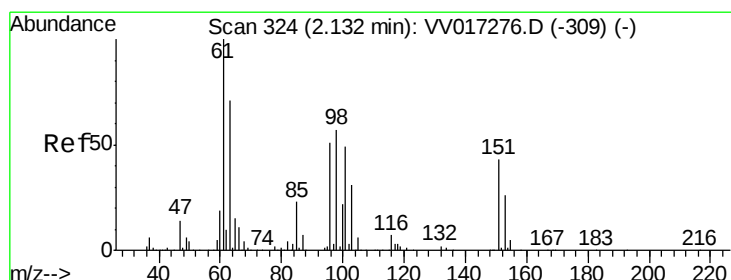
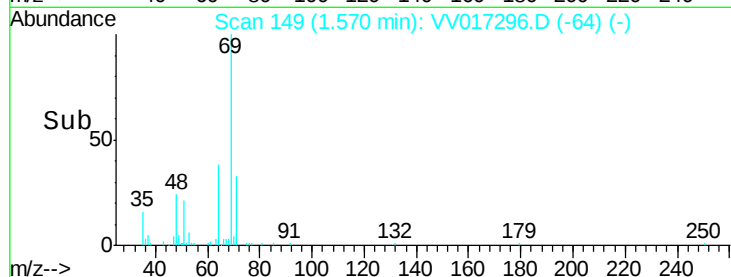
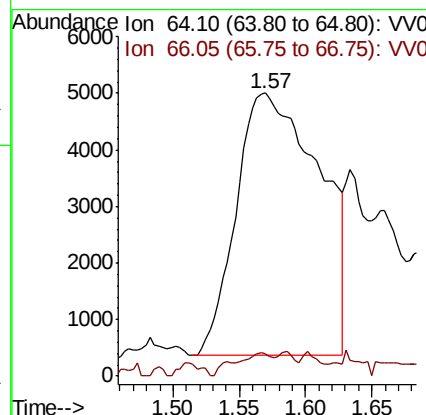
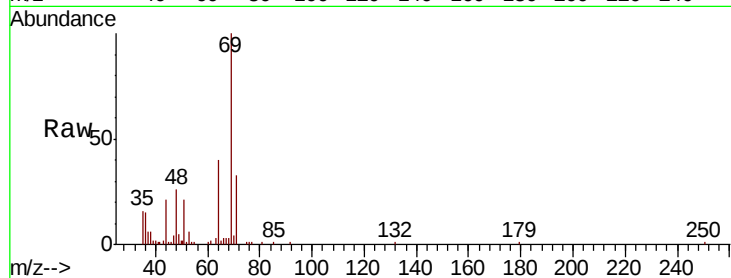
C0AK0

Tot Ion: 64 Resp: 20311

Ion Ratio Lower Upper

64 100

66 8.0 22.8 42.4#



#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.077 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV017296.D

Acq: 01 Jul 2020 17:58

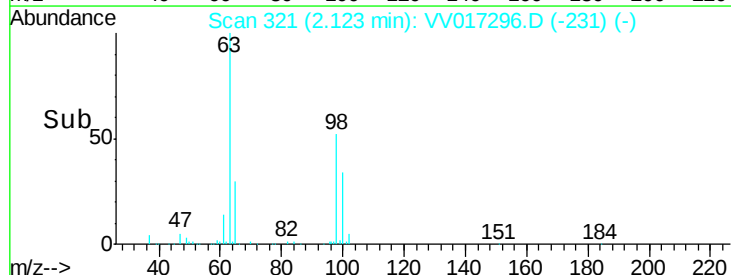
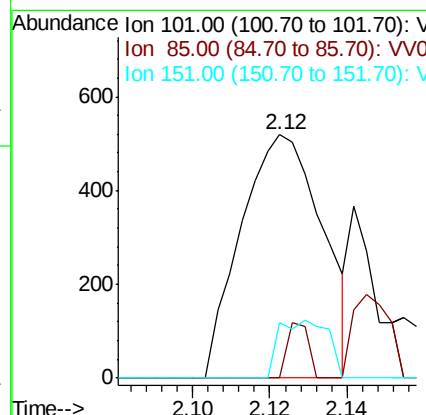
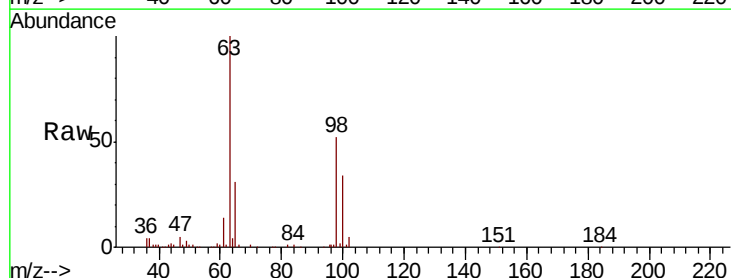
Tgt Ion: 101 Resp: 757

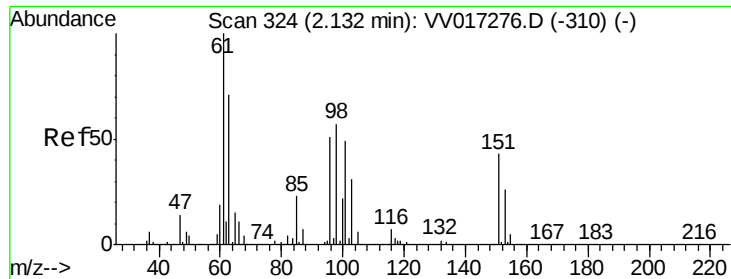
Ion Ratio Lower Upper

101 100

85 5.8 35.4 53.2#

151 14.3 63.9 95.9#





#12

1,1-Dichloroethene

Concen: 0.112 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV017296.D

Acq: 01 Jul 2020 17:58

Instrument :

MSVOA_V

ClientSampled :

C0AK0

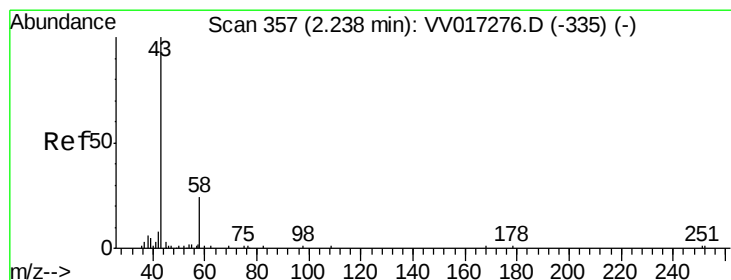
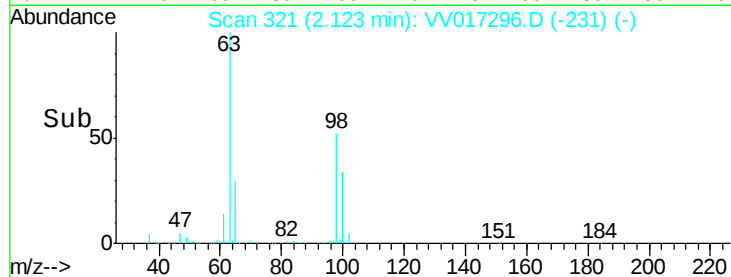
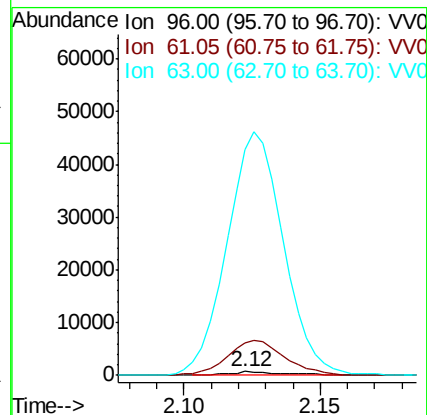
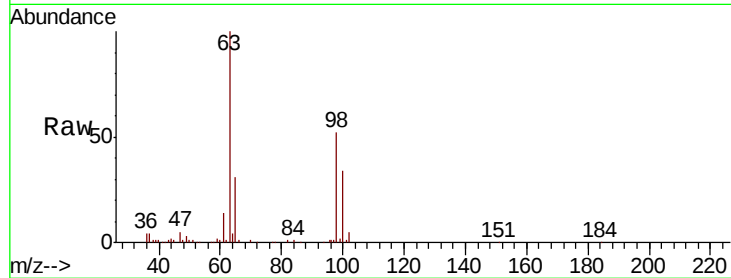
Tot Ion: 96 Resp: 994

Ion Ratio Lower Upper

96 100

61 823.5 125.0 232.2#

63 5763.4 109.8 203.8#



#13

Acetone

Concen: 15.323 ug/L

RT: 2.20 min Scan# 345

Delta R.T. -0.04 min

Lab File: VV017296.D

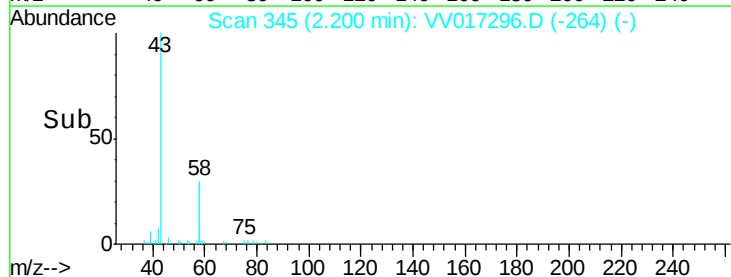
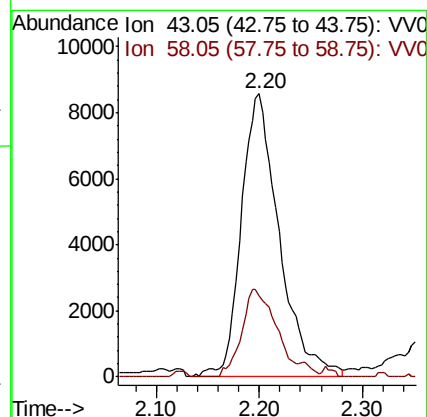
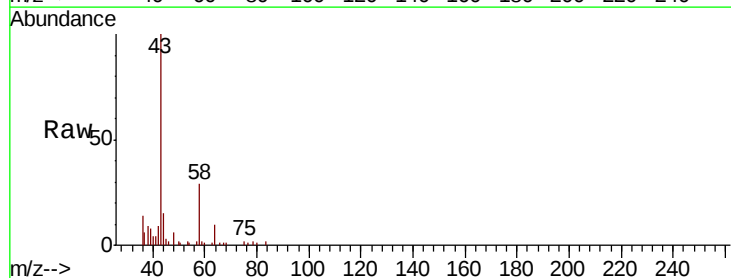
Acq: 01 Jul 2020 17:58

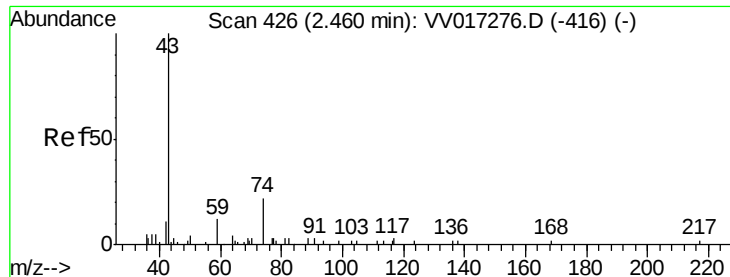
Tgt Ion: 43 Resp: 21982

Ion Ratio Lower Upper

43 100

58 29.5 0.0 58.4





#15

Methyl Acetate

Concen: 0.561 ug/L

RT: 2.39 min Scan# 403

Delta R.T. -0.07 min

Lab File: VV017296.D

Acq: 01 Jul 2020 17:58

Instrument :

MSVOA_V

ClientSampleId :

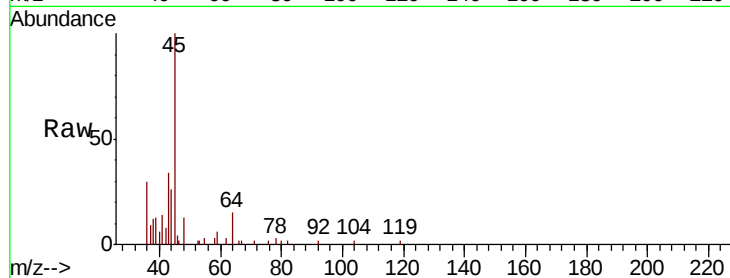
C0AK0

Tot Ion: 43 Resp: 1969

Ion Ratio Lower Upper

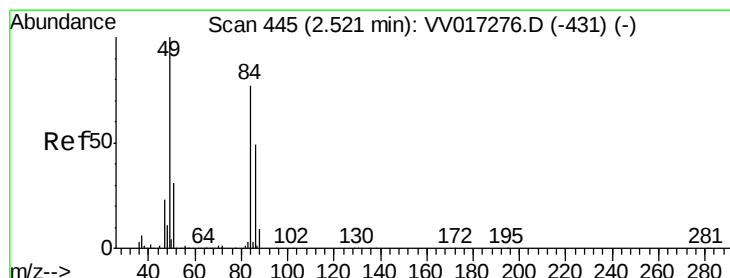
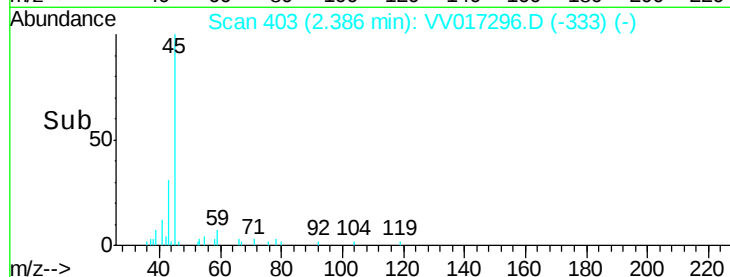
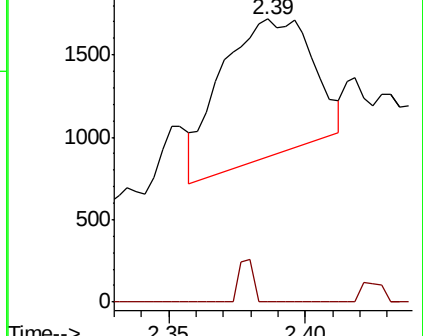
43 100

74 5.0 19.1 28.7#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 0.256 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.01 min

Lab File: VV017296.D

Acq: 01 Jul 2020 17:58

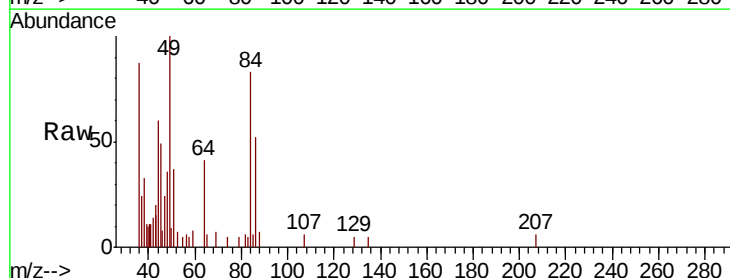
Tgt Ion: 84 Resp: 2445

Ion Ratio Lower Upper

84 100

86 63.4 45.8 85.0

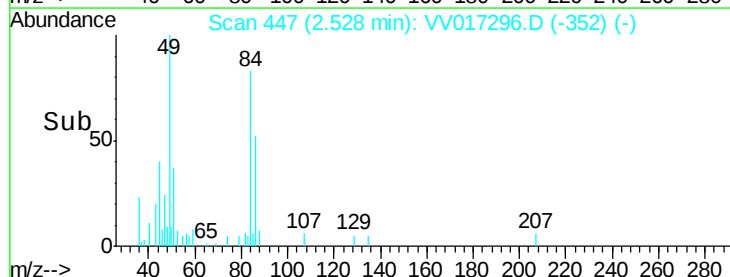
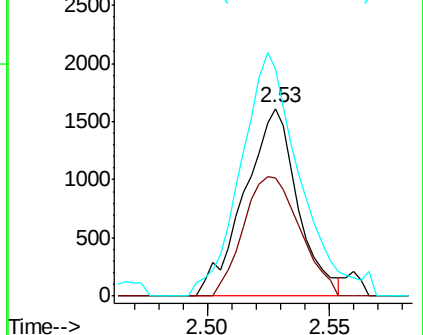
49 120.9 89.6 166.4

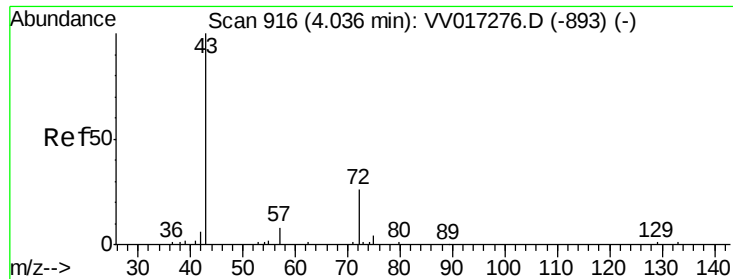


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0





#21

2-Butanone

Concen: 3.994 ug/L

RT: 4.02 min Scan# 910

Delta R.T. -0.02 min

Lab File: VV017296.D

Acq: 01 Jul 2020 17:58

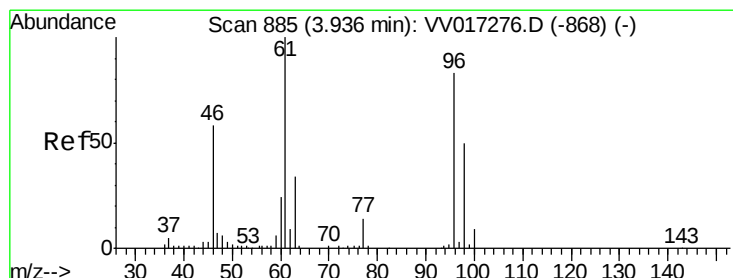
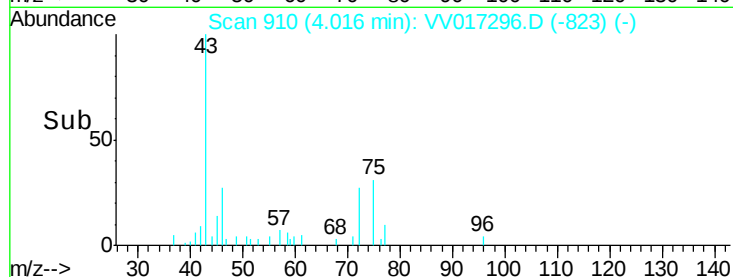
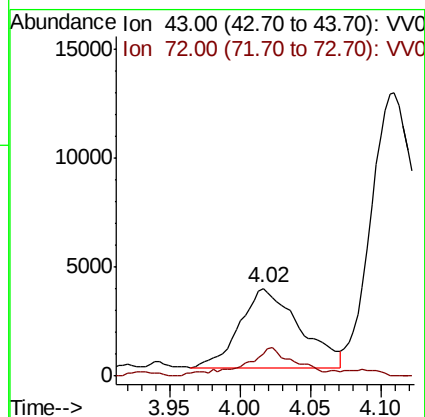
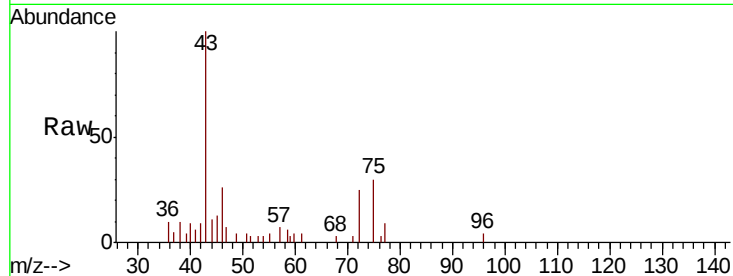
Instrument :
MSVOA_V
ClientSampled :
C0AK0

Tot Ion: 43 Resp: 10801

Ion Ratio Lower Upper

43 100

72 21.8 12.4 37.4



#22

cis-1,2-Dichloroethene

Concen: 1.353 ug/L

RT: 3.95 min Scan# 888

Delta R.T. 0.01 min

Lab File: VV017296.D

Acq: 01 Jul 2020 17:58

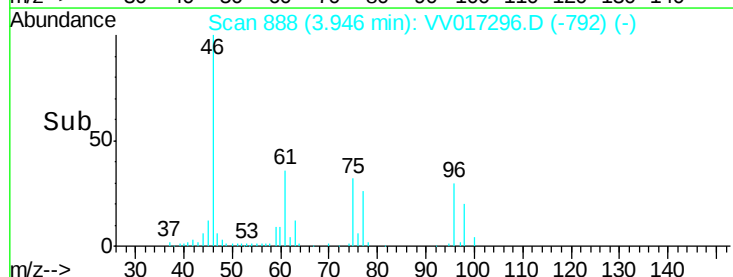
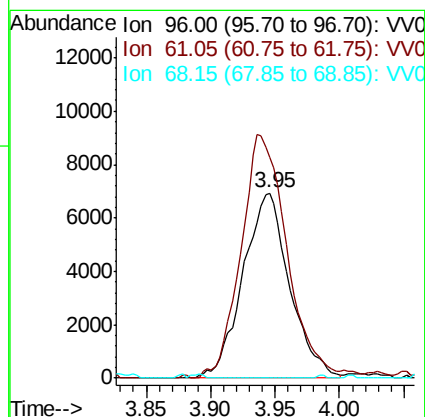
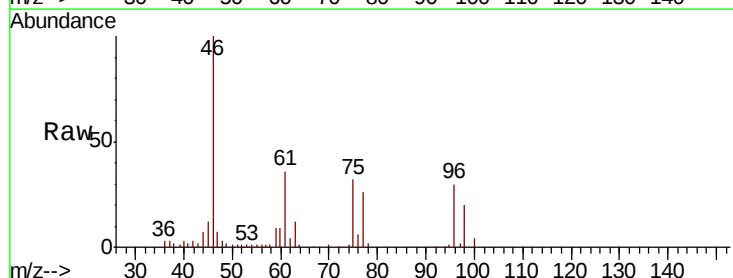
Tgt Ion: 96 Resp: 17459

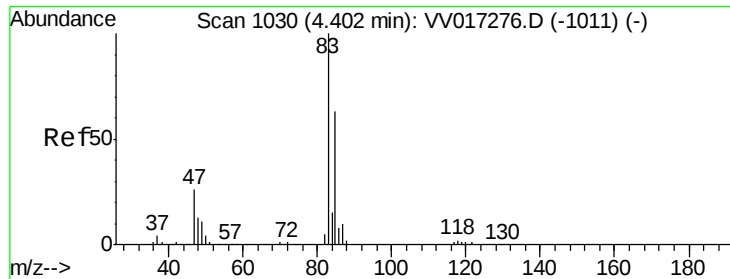
Ion Ratio Lower Upper

96 100

61 118.9 91.0 169.0

68 0.0 0.0 0.0





#25

Chloroform

Concen: 0.597 ug/L

RT: 4.41 min Scan# 1032

Delta R.T. 0.01 min

Lab File: VV017296.D

Acq: 01 Jul 2020 17:58

Instrument :

MSVOA_V

ClientSampled :

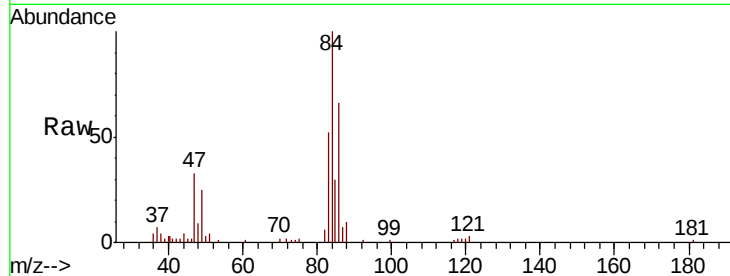
C0AK0

Tot Ion: 83 Resp: 13833

Ion Ratio Lower Upper

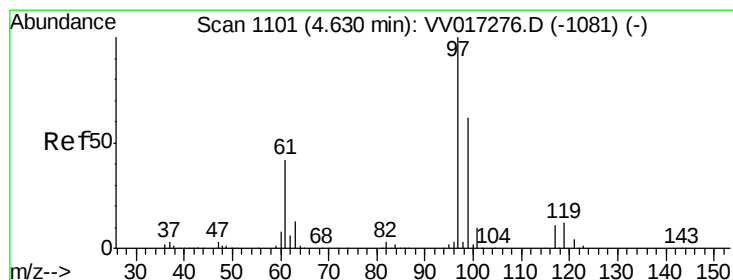
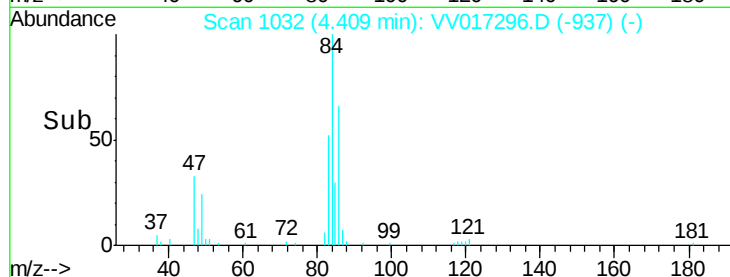
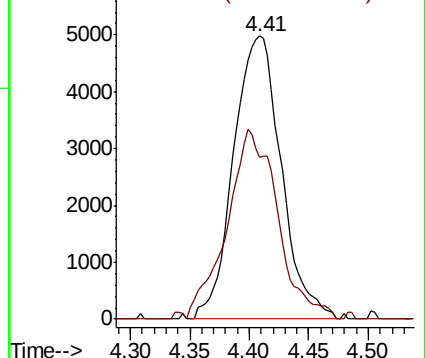
83 100

85 57.2 44.2 82.2



Abundance Ion 83.05 (82.75 to 83.75): VV0

Ion 85.00 (84.70 to 85.70): VV0



#29

1,1,1-Trichloroethane

Concen: 0.126 ug/L

RT: 4.63 min Scan# 1101

Delta R.T. 0.00 min

Lab File: VV017296.D

Acq: 01 Jul 2020 17:58

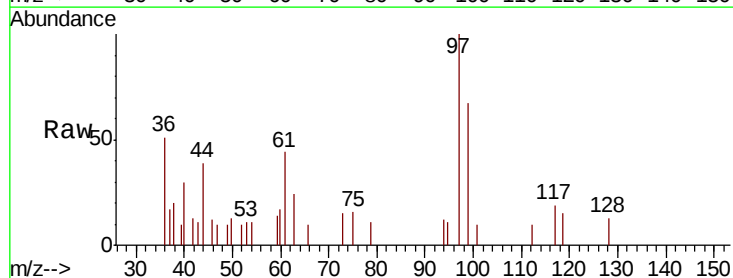
Tgt Ion: 97 Resp: 2695

Ion Ratio Lower Upper

97 100

99 52.8 50.3 75.5

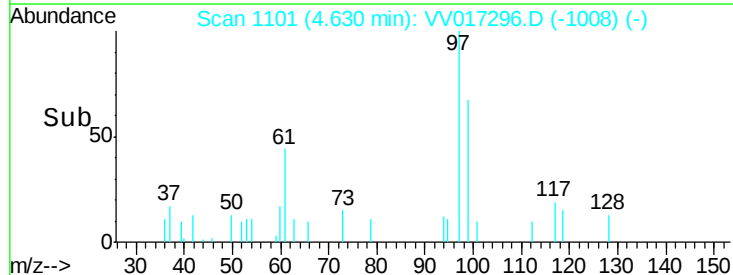
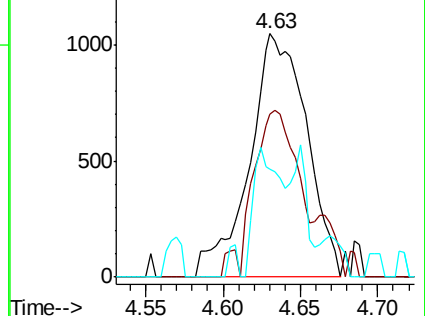
61 24.9 36.0 54.0#

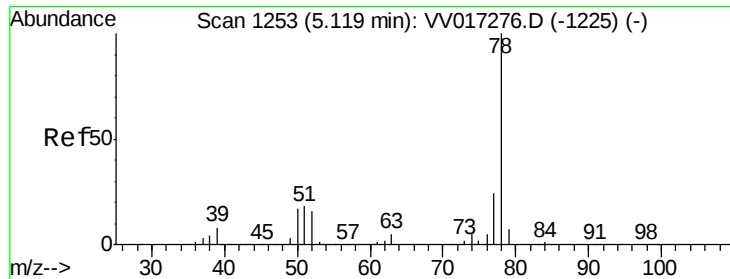


Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 61.05 (60.75 to 61.75): VV0





#33

Benzene

Concen: 0.136 ug/L

RT: 5.14 min Scan# 1258

Delta R.T. 0.02 min

Lab File: VV017296.D

Acq: 01 Jul 2020 17:58

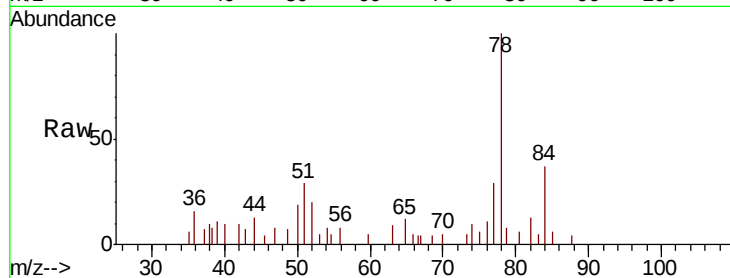
Instrument :

MSVOA_V

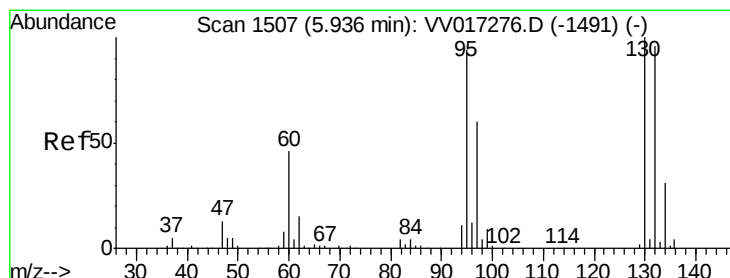
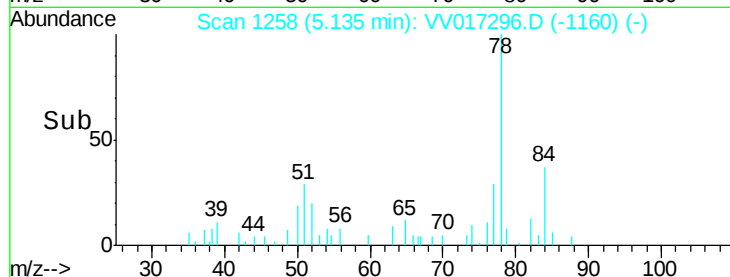
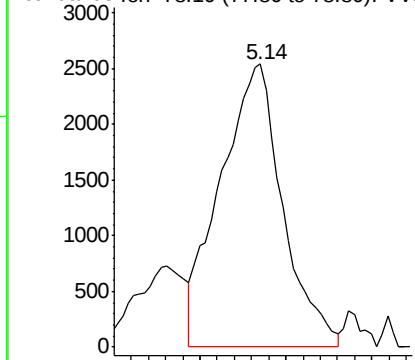
ClientSampled :

C0AK0

Tgt Ion: 78 Resp: 6402



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 36.307 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. 0.00 min

Lab File: VV017296.D

Acq: 01 Jul 2020 17:58

Tgt Ion: 95 Resp: 498615

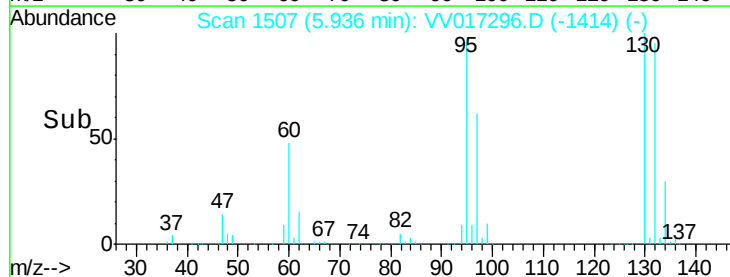
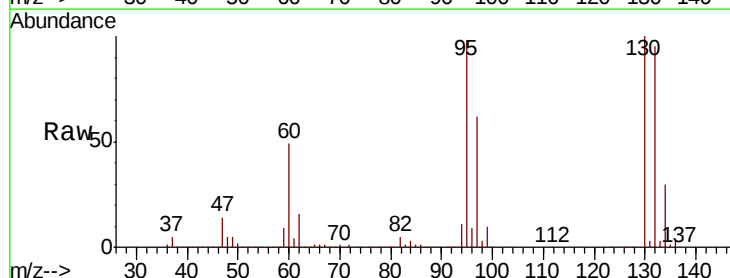
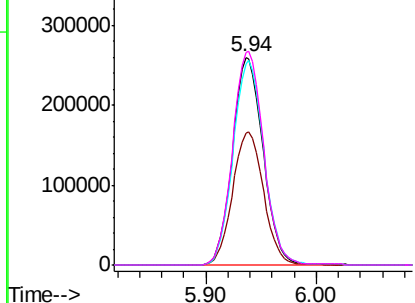
Ion	Ratio	Lower	Upper
95	100		
97	63.5	45.3	84.1
132	96.9	68.8	127.8
130	102.4	70.2	130.4

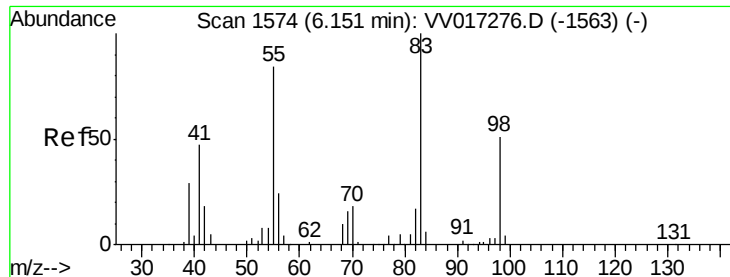
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0

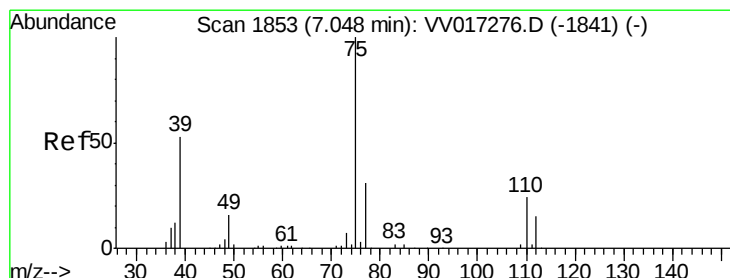
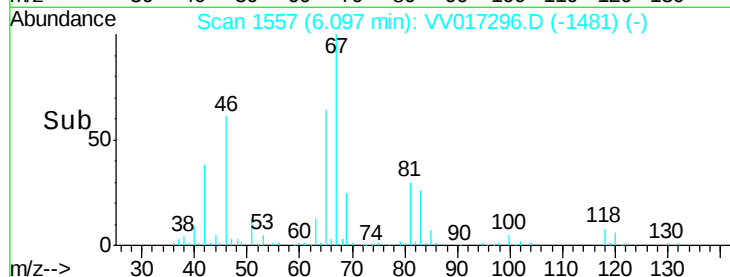
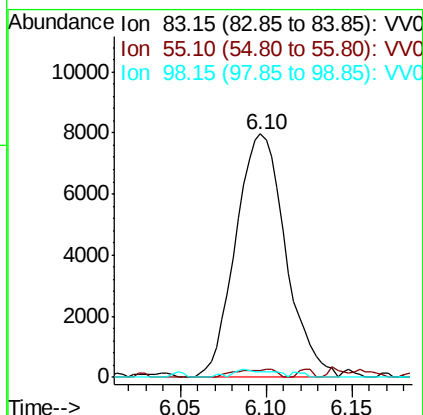
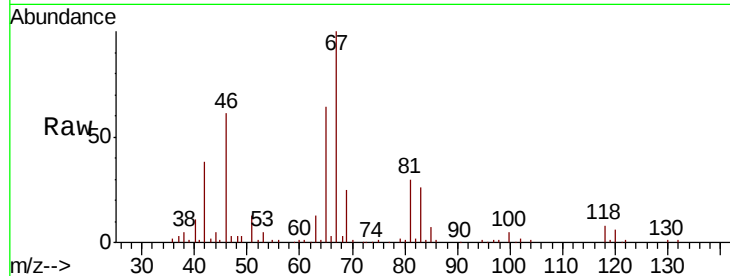




#35
Methvlcvclohexane
Concen: 0.750 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.05 min
Lab File: VV017296.D
Acq: 01 Jul 2020 17:58

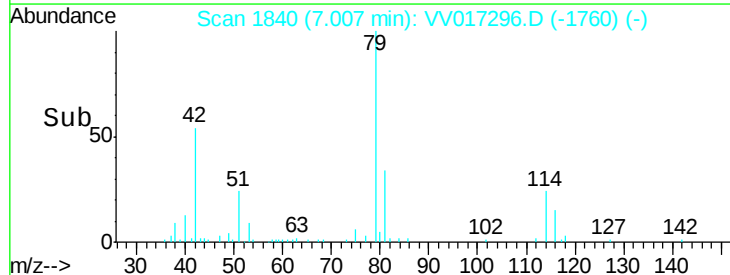
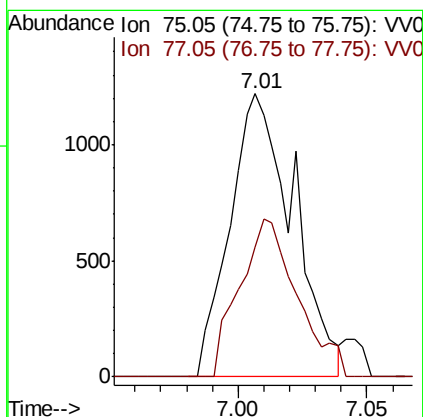
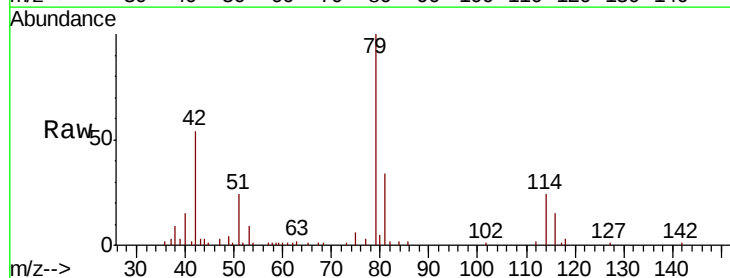
Instrument :
MSVOA_V
ClientSampleId :
C0AK0

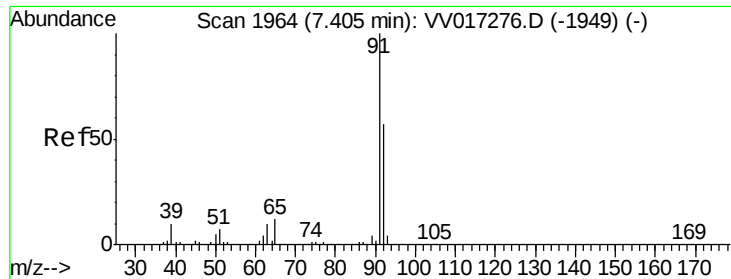
Tot Ion: 83 Resp: 16019
Ion Ratio Lower Upper
83 100
55 2.6 63.6 95.4#
98 0.0 38.8 58.2#



#39
cis-1,3-Dichloropropene
Concen: 0.121 ug/L
RT: 7.01 min Scan# 1840
Delta R.T. -0.04 min
Lab File: VV017296.D
Acq: 01 Jul 2020 17:58

Tgt Ion: 75 Resp: 2090
Ion Ratio Lower Upper
75 100
77 45.9 22.3 41.5#





#42

Toluene

Concen: 1.266 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.01 min

Lab File: VV017296.D

Acq: 01 Jul 2020 17:58

Instrument :

MSVOA_V

ClientSampleId :

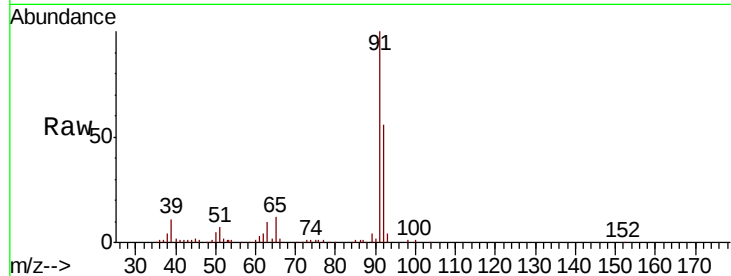
C0AK0

Tot Ion: 91 Resp: 69020

Ion Ratio Lower Upper

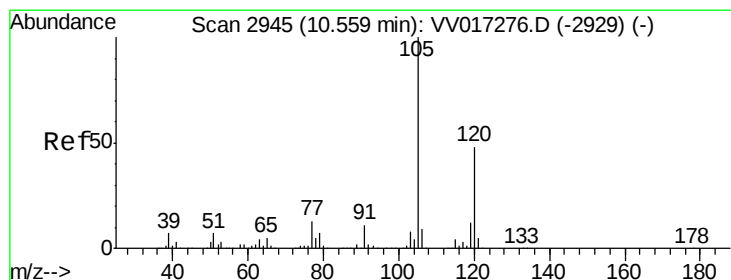
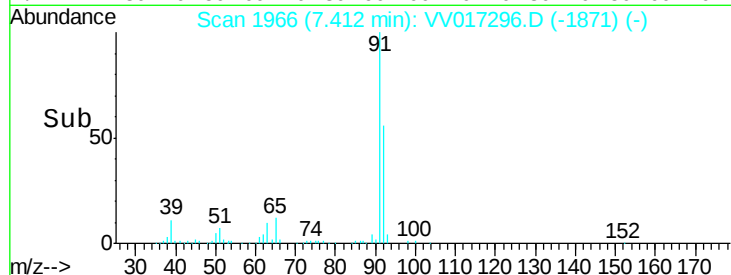
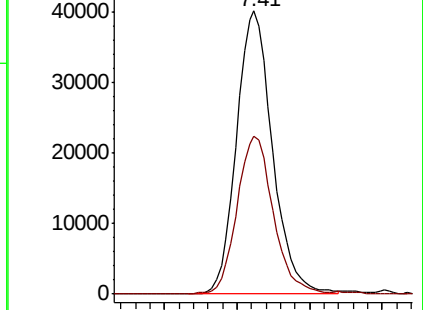
91 100

92 55.9 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VV017276.D (-1949) (-)

Ion 92.15 (91.85 to 92.85): VV017296.D (-1871) (-)



#43

1,3,5-Trimethylbenzene

Concen: 0.160 ug/L

RT: 10.94 min Scan# 3063

Delta R.T. 0.38 min

Lab File: VV017296.D

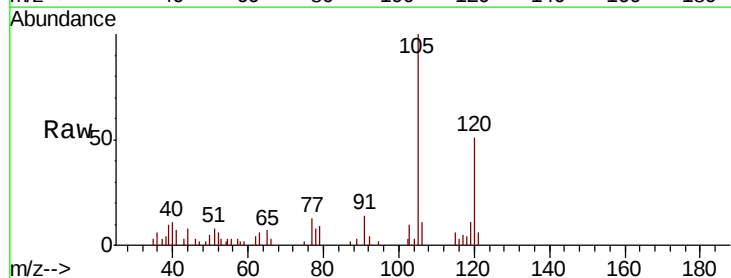
Acq: 01 Jul 2020 17:58

Tgt Ion: 105 Resp: 7785

Ion Ratio Lower Upper

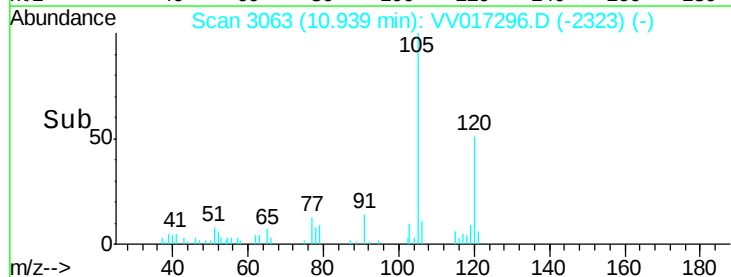
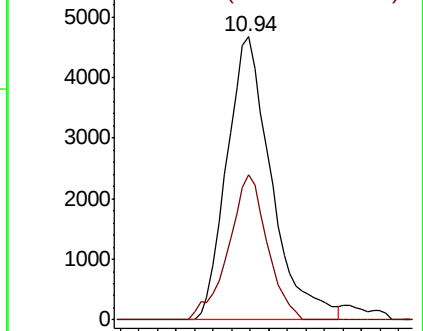
105 100

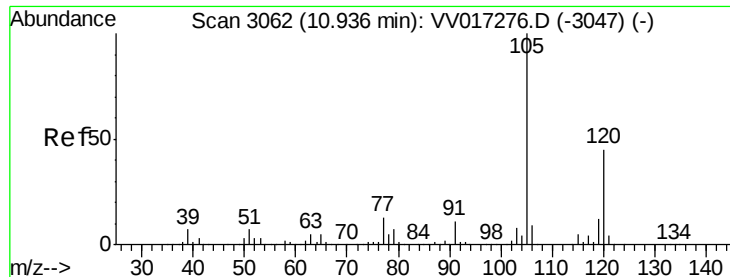
120 44.4 38.6 57.8



Abundance Ion 105.00 (104.70 to 105.70): VV017276.D (-2929) (-)

Ion 120.00 (119.70 to 120.70): VV017296.D (-2323) (-)

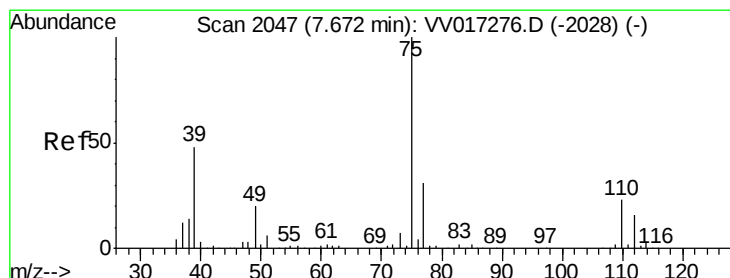
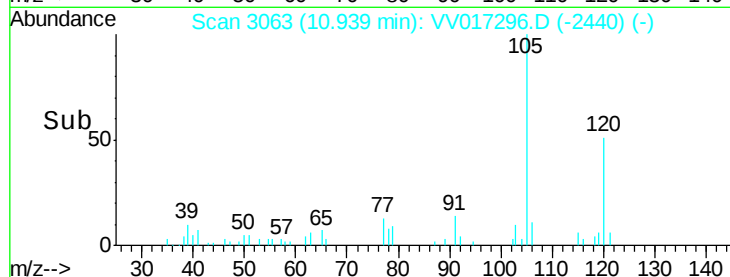
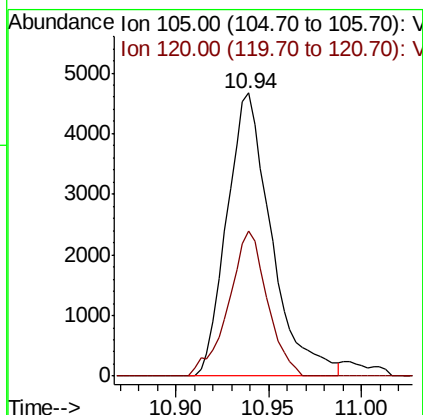
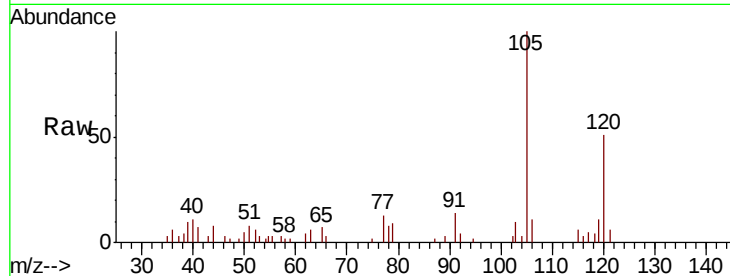




#44
1,2,4-Trimethylbenzene
Concen: 0.157 ug/L
RT: 10.94 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VV017296.D
Acq: 01 Jul 2020 17:58

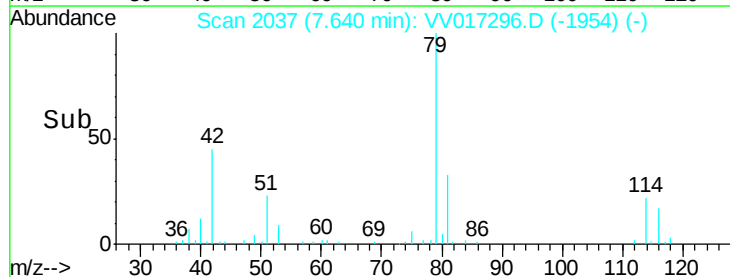
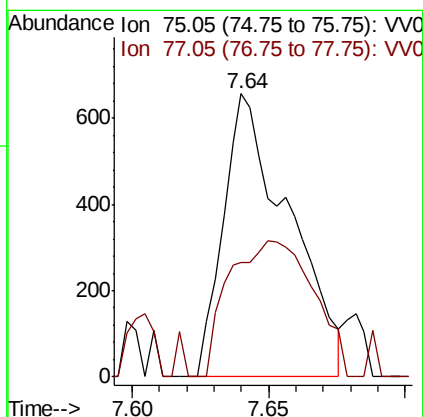
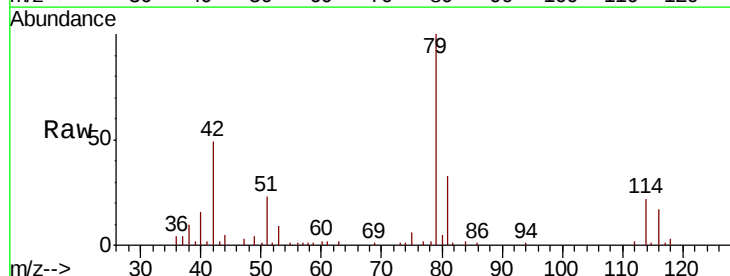
Instrument :
MSVOA_V
ClientSampleId :
C0AK0

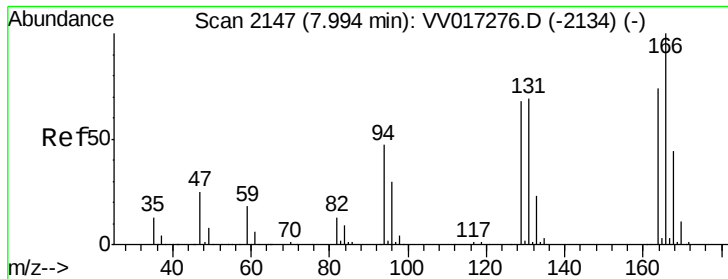
Tot Ion:105 Resp: 7785
Ion Ratio Lower Upper
105 100
120 44.4 35.8 53.8



#46
trans-1,3-Dichloropropene
Concen: 0.074 ug/L
RT: 7.64 min Scan# 2037
Delta R.T. -0.03 min
Lab File: VV017296.D
Acq: 01 Jul 2020 17:58

Tgt Ion: 75 Resp: 1100
Ion Ratio Lower Upper
75 100
77 40.5 22.3 41.3

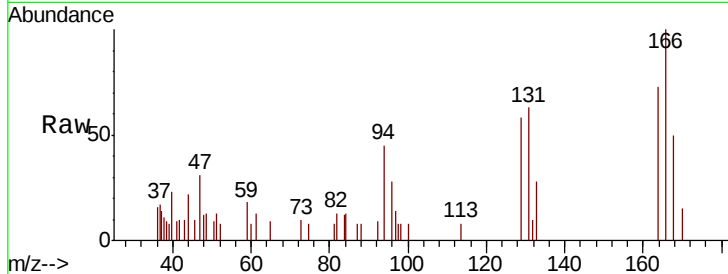




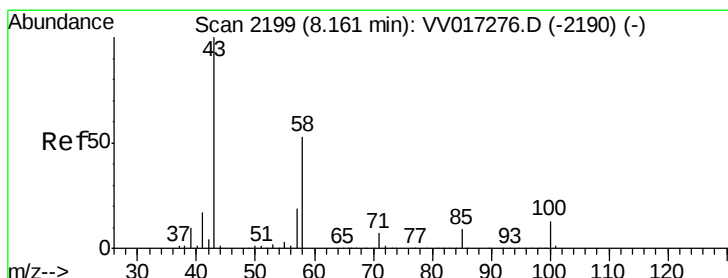
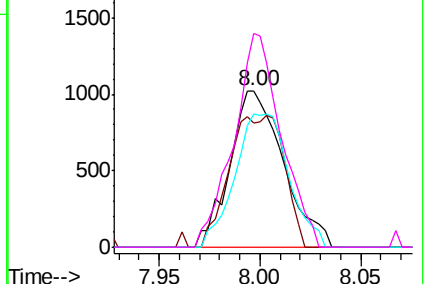
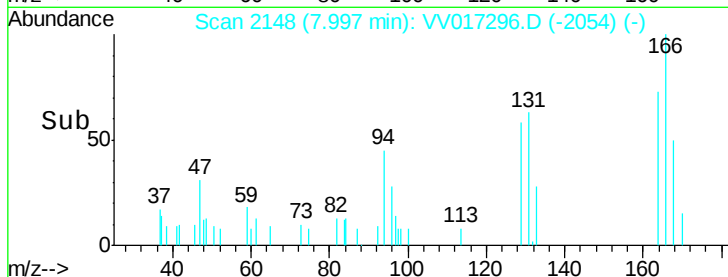
#49
Tetrachloroethene
Concen: 0.173 ug/L
RT: 8.00 min Scan# 2148
Delta R.T. 0.00 min
Lab File: VV017296.D
Acq: 01 Jul 2020 17:58

Instrument :
MSVOA_V
ClientSampled :
C0AK0

Tot Ion:164 Resp: 1908
Ion Ratio Lower Upper
164 100
129 79.3 65.2 121.0
131 85.3 64.1 119.1
166 136.5 90.2 167.4

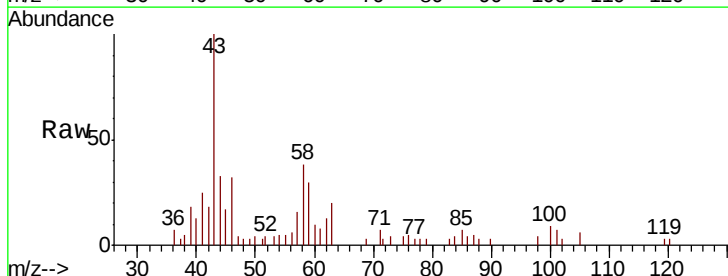


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 128.95 (128.65 to 129.65): V
Ion 130.95 (130.65 to 131.65): V
Ion 165.90 (165.60 to 166.60): V

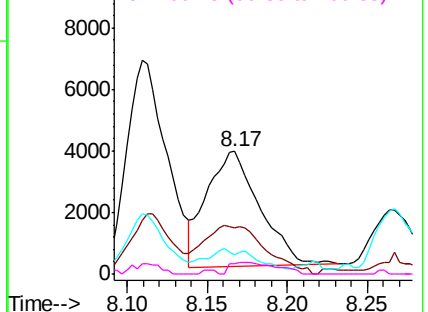
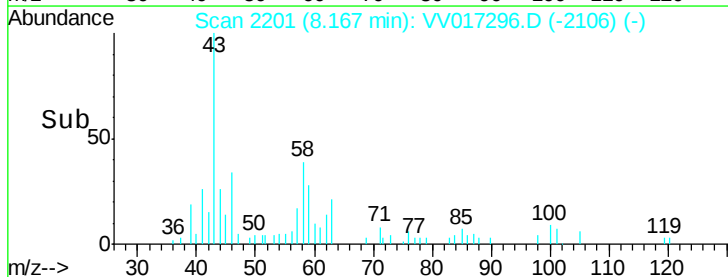


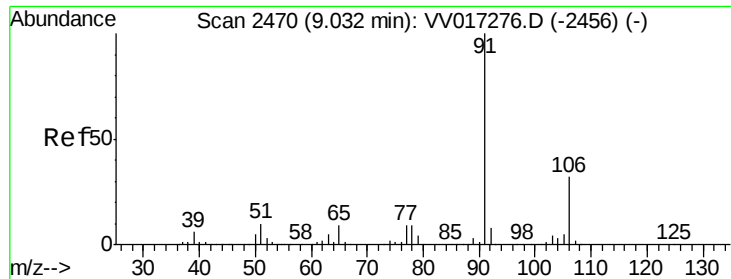
#50
2-Hexanone
Concen: 1.802 ug/L
RT: 8.17 min Scan# 2201
Delta R.T. 0.01 min
Lab File: VV017296.D
Acq: 01 Jul 2020 17:58

Tgt Ion: 43 Resp: 8595
Ion Ratio Lower Upper
43 100
58 1.7 41.6 62.4#
57 2.0 15.4 23.0#
100 8.7 10.1 15.1#



Abundance Ion 43.05 (42.75 to 43.75): VV0
Ion 58.05 (57.75 to 58.75): VV0
Ion 57.20 (56.90 to 57.90): VV0
Ion 100.15 (99.85 to 100.85): VV0





#54

Ethylbenzene

Concen: 0.118 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. 0.00 min

Lab File: VV017296.D

Acq: 01 Jul 2020 17:58

Instrument :

MSVOA_V

ClientSampleId :

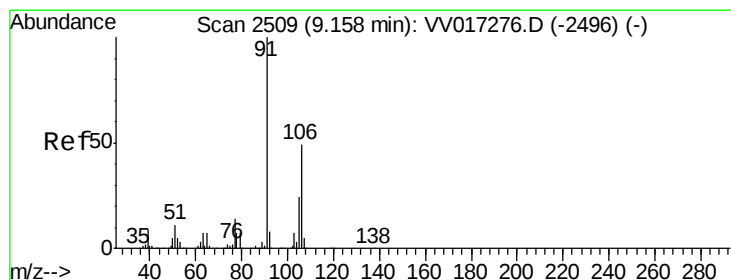
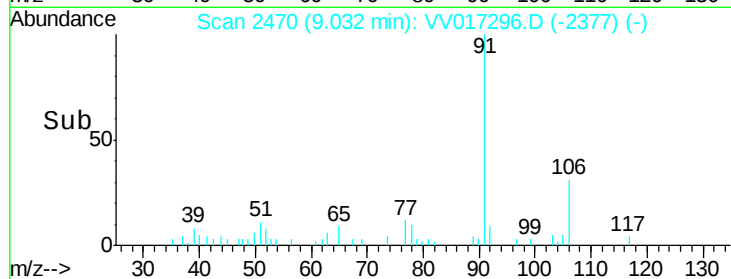
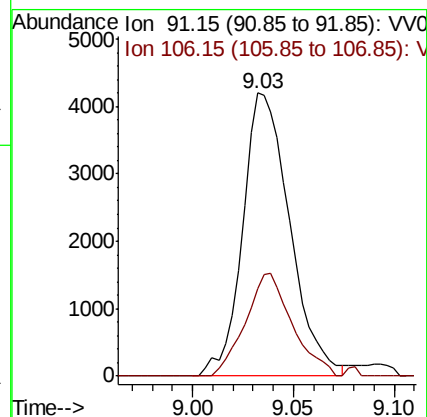
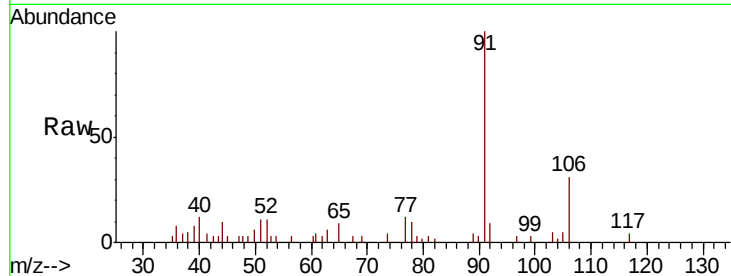
C0AK0

Tot Ion: 91 Resp: 6870

Ion Ratio Lower Upper

91 100

106 30.9 21.1 39.1



#55

m,p-xylene

Concen: 0.542 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV017296.D

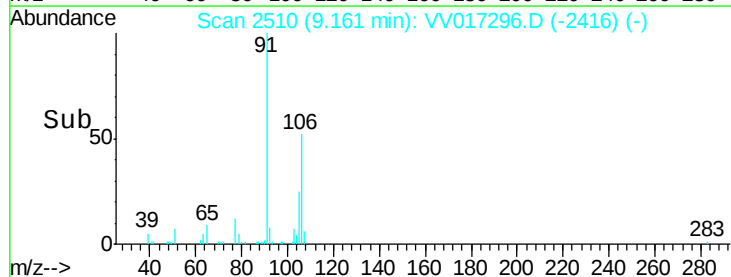
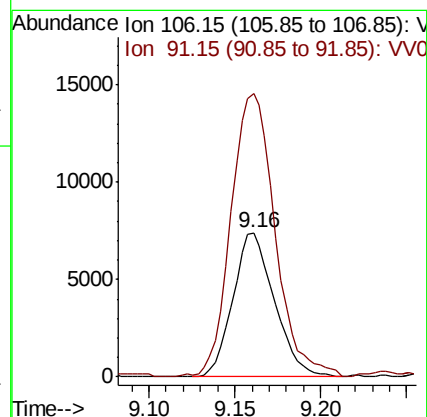
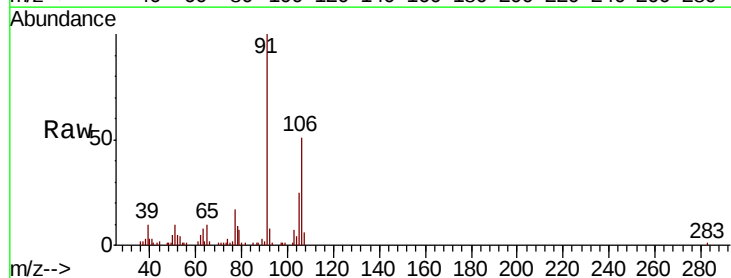
Acq: 01 Jul 2020 17:58

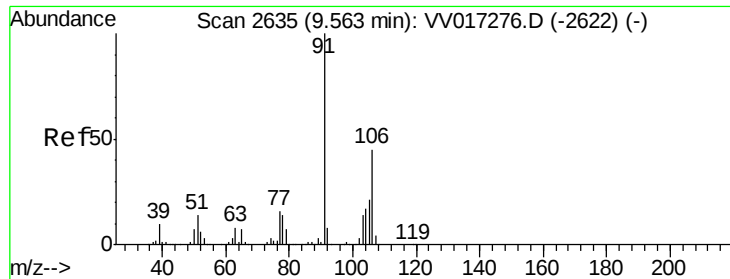
Tgt Ion: 106 Resp: 12377

Ion Ratio Lower Upper

106 100

91 196.5 142.7 264.9

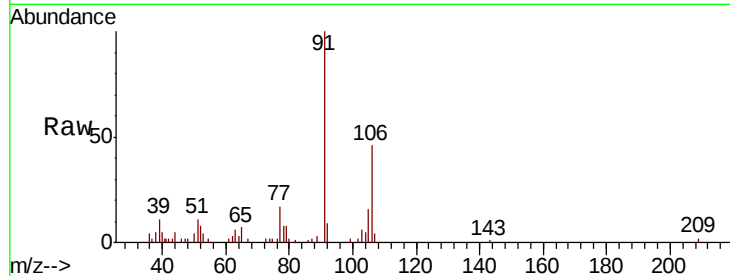




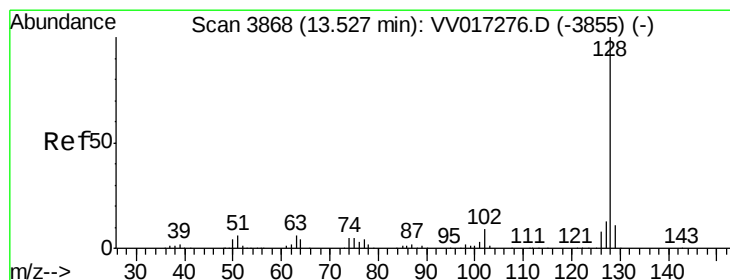
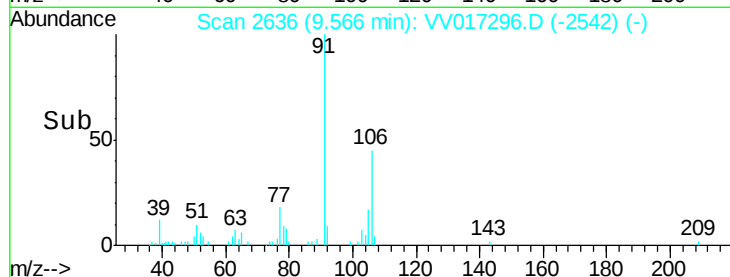
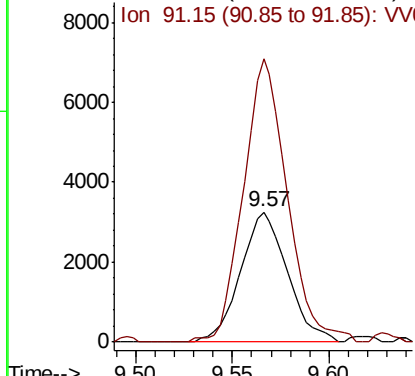
#56
o-xylene
Concen: 0.259 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV017296.D
Acq: 01 Jul 2020 17:58

Instrument :
MSVOA_V
ClientSampled :
C0AK0

Tot Ion:106 Resp: 5514
Ion Ratio Lower Upper
106 100
91 217.8 153.6 285.2

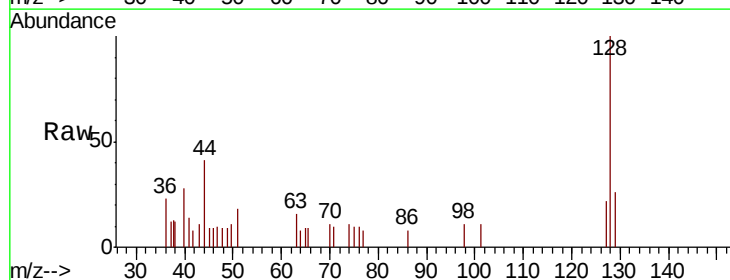


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0



#70
Naphthalene
Concen: 0.089 ug/L
RT: 13.53 min Scan# 3869
Delta R.T. 0.00 min
Lab File: VV017296.D
Acq: 01 Jul 2020 17:58

Tgt Ion:128 Resp: 2183
Ion Ratio Lower Upper
128 100
129 19.1 8.8 13.2#
127 17.3 10.5 15.7#



Abundance Ion 128.00 (127.70 to 128.70): V
Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

