

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV072420\
 Data File : VV017647.D
 Acq On : 24 Jul 2020 14:27
 Operator : SY/MD
 Sample : L3395-17DL 10X
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jul 25 00:09:32 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR072320WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Jul 25 00:05:26 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	172034	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	164786	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	91747	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	36080	4.39	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.80%
7) Chloroethane-d5	1.58	69	30503	4.85	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	97.00%
11) 1,1-Dichloroethene-d2	2.12	63	63370	3.44	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	68.80%
20) 2-Butanone-d5	3.94	46	83752	42.62	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	85.24%
24) Chloroform-d	4.37	84	88004	4.43	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.60%
26) 1,2-Dichloroethane-d4	5.06	65	50038	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%
32) Benzene-d6	5.07	84	170305	4.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.80%
36) 1,2-Dichloropropane-d6	6.09	67	47440	4.70	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.00%
41) Toluene-d8	7.34	98	166970	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.80%
45) trans-1,3-Dichloropropene-	7.65	79	19778	4.32	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.40%
48) 2-Hexanone-d5	8.12	63	60613	42.74	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	85.48%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	31275	4.45	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	89.00%
65) 1,2-Dichlorobenzene-d4	11.65	152	70841	5.11	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	102.20%

Target Compounds

					Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	801	0.078 ug/L #	19
12) 1,1-Dichloroethene	2.11	96	851	0.092 ug/L #	1
13) Acetone	2.22	43	3984	2.590 ug/L	99
14) Carbon disulfide	2.31	76	1627	0.058 ug/L #	60
16) Methylene chloride	2.52	84	14914	1.447 ug/L	93
22) cis-1,2-Dichloroethene	3.94	96	830	0.065 ug/L	95
25) Chloroform	4.41	83	3928	0.165 ug/L	85
30) Cyclohexane	4.69	56	13309	0.729 ug/L	99
33) Benzene	5.12	78	130580	2.799 ug/L	100
35) Methylcyclohexane	6.15	83	5217	0.265 ug/L #	55
37) 1,2-Dichloropropane	6.09	63	6369	0.581 ug/L #	1
40) 4-Methyl-2-pentanone	7.28	43	9600	1.597 ug/L #	77
42) Toluene	7.41	91	30023	0.590 ug/L	97
43) 1,3,5-Trimethylbenzene	10.56	105	39579	0.833 ug/L	95
44) 1,2,4-Trimethylbenzene	10.94	105	200513	4.131 ug/L	99
47) 1,1,2-Trichloroethane	7.81	97	4056	0.488 ug/L #	28
49) Tetrachloroethene	8.00	164	1612	0.140 ug/L #	68

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat Jul 25 00:05:26 2020
Response via : Initial Calibration

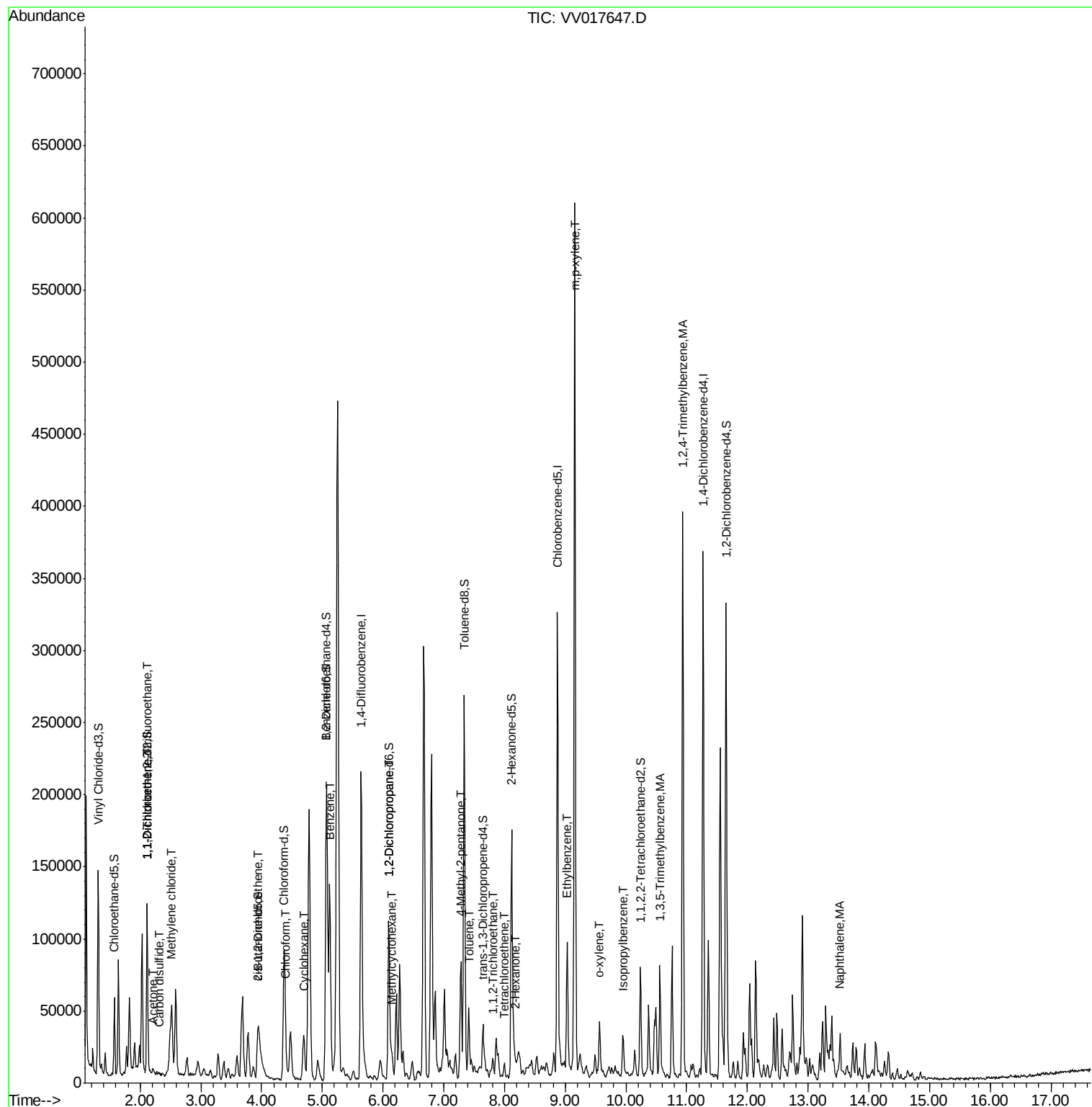
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone	8.18	43	2996	0.704	ug/L #	76
54) Ethylbenzene	9.03	91	51355	0.901	ug/L	100
55) m,p-xylene	9.16	106	157186	7.326	ug/L	95
56) o-xylene	9.57	106	9493	0.456	ug/L	73
58) Isopropylbenzene	9.95	105	15932	0.277	ug/L	96
70) Naphthalene	13.53	128	20707	0.740	ug/L #	91

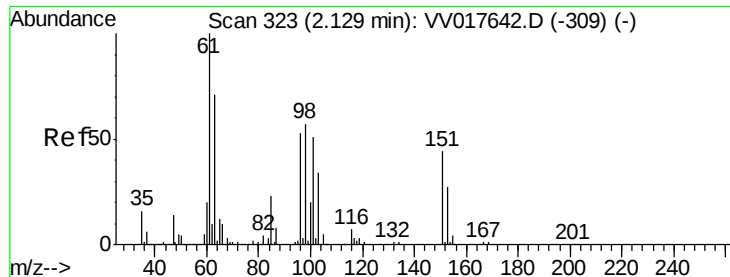
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 0.078 ug/L

RT: 2.12 min Scan# 319

Delta R.T. -0.01 min

Lab File: VV017647.D

Acq: 24 Jul 2020 14:27

Instrument :

MSVOA_V

ClientSampleId :

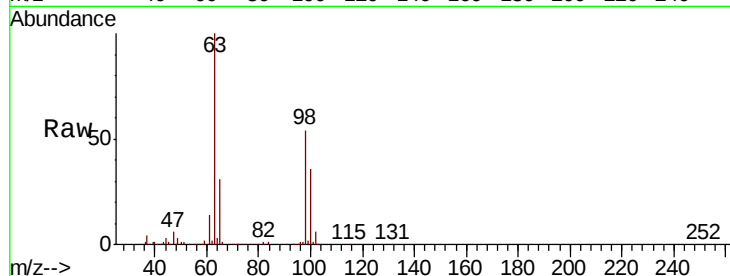
Tot Ion:101 Resp: 801

Ion Ratio Lower Upper

101 100

85 2.6 34.6 51.8#

151 0.0 63.5 95.3#



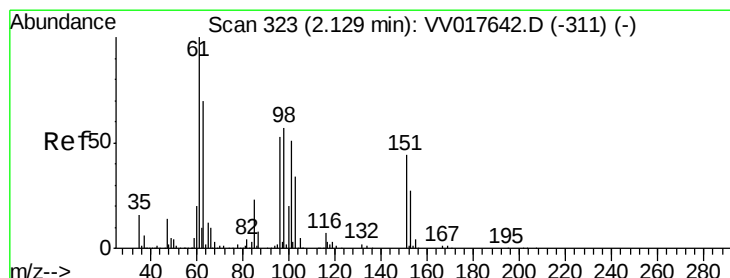
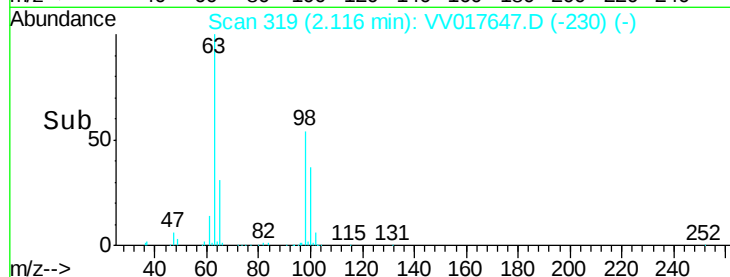
Abundance Ion 101.00 (100.70 to 101.70): VV017647.D (-230) (-)

Ion 85.00 (84.70 to 85.70): VV017647.D (-230) (-)

Ion 151.00 (150.70 to 151.70): VV017647.D (-230) (-)

Time-->

2.10 2.15



#12

1,1-Dichloroethene

Concen: 0.092 ug/L

RT: 2.11 min Scan# 317

Delta R.T. -0.02 min

Lab File: VV017647.D

Acq: 24 Jul 2020 14:27

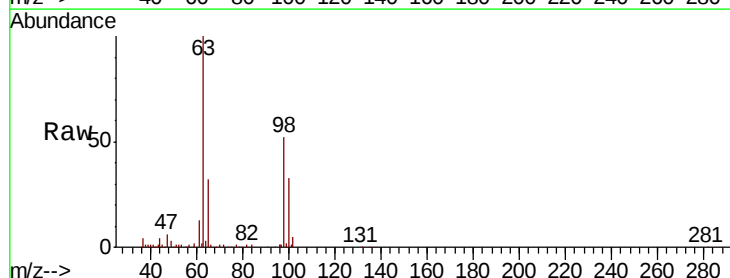
Tgt Ion: 96 Resp: 851

Ion Ratio Lower Upper

96 100

61 617.5 123.1 228.7#

63 4667.4 91.2 169.4#



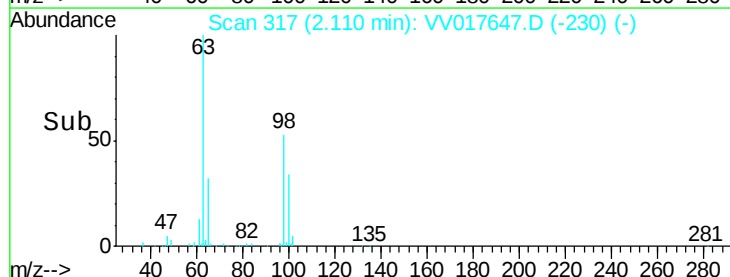
Abundance Ion 96.00 (95.70 to 96.70): VV017647.D (-230) (-)

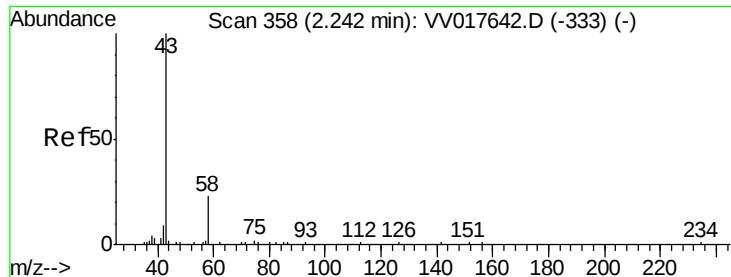
Ion 61.05 (60.75 to 61.75): VV017647.D (-230) (-)

Ion 63.00 (62.70 to 63.70): VV017647.D (-230) (-)

Time-->

2.08 2.10 2.12 2.14 2.16





#13

Acetone

Concen: 2.590 ug/L

RT: 2.22 min Scan# 350

Delta R.T. -0.03 min

Lab File: VV017647.D

Acq: 24 Jul 2020 14:27

Instrument :

MSVOA_V

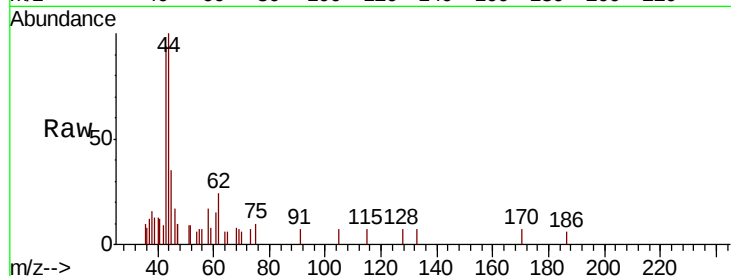
ClientSampled :

Tot Ion: 43 Resp: 3984

Ion Ratio Lower Upper

43 100

58 9.6 0.0 18.6



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

2.22

1500

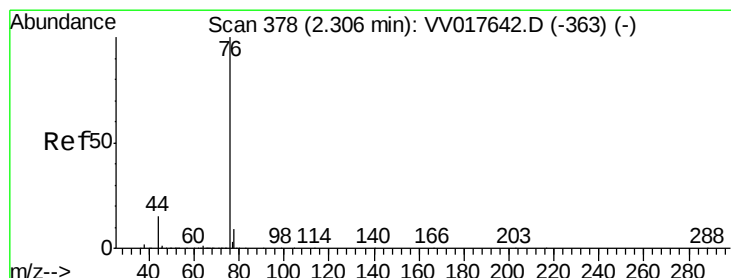
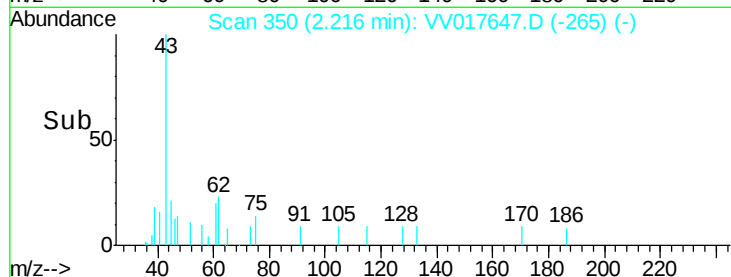
1000

500

0

Time-->

2.15 2.20 2.25



#14

Carbon disulfide

Concen: 0.058 ug/L

RT: 2.31 min Scan# 379

Delta R.T. 0.00 min

Lab File: VV017647.D

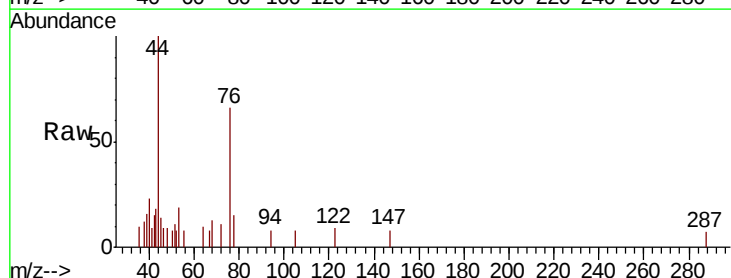
Acq: 24 Jul 2020 14:27

Tgt Ion: 76 Resp: 1627

Ion Ratio Lower Upper

76 100

78 22.5 6.6 10.0#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.31

1000

800

600

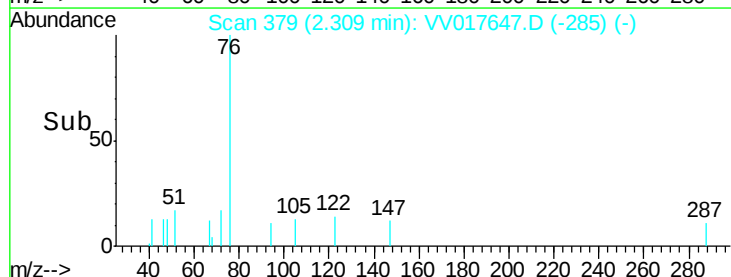
400

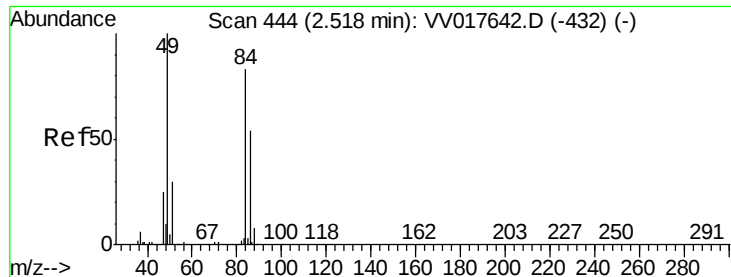
200

0

Time-->

2.25 2.30 2.35

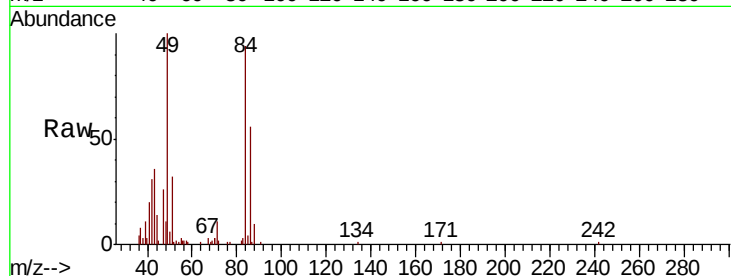




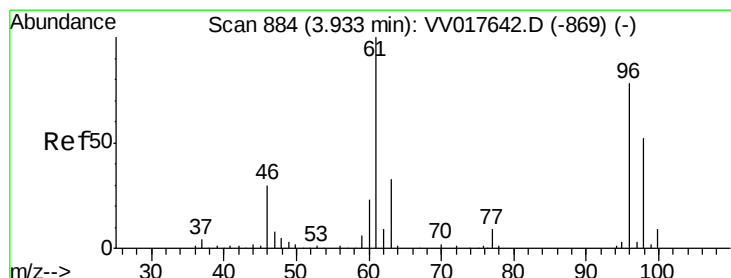
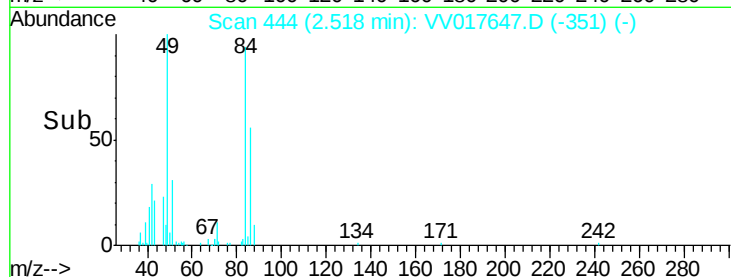
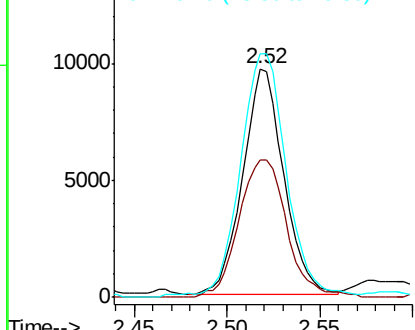
#16
Methvlene chloride
Concen: 1.447 ug/L
RT: 2.52 min Scan# 444
Delta R.T. -0.00 min
Lab File: VV017647.D
Acq: 24 Jul 2020 14:27

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 84 Resp: 14914
Ion Ratio Lower Upper
84 100
86 60.1 46.5 86.3
49 106.5 79.2 147.2

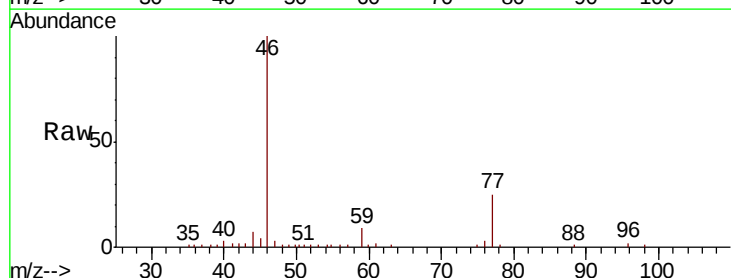


Abundance Ion 84.05 (83.75 to 84.75): VV0
Ion 86.00 (85.70 to 86.70): VV0
Ion 49.10 (48.80 to 49.80): VV0

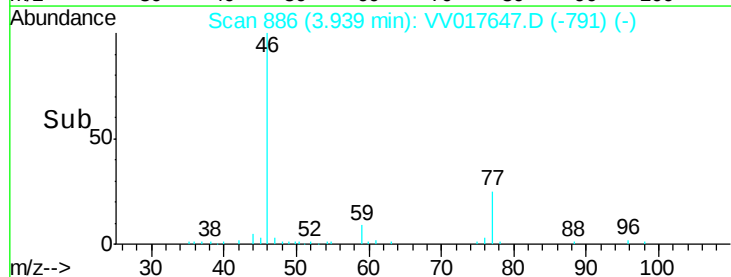
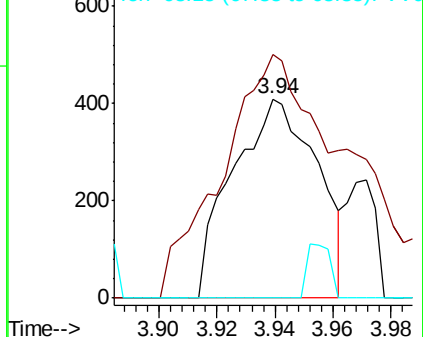


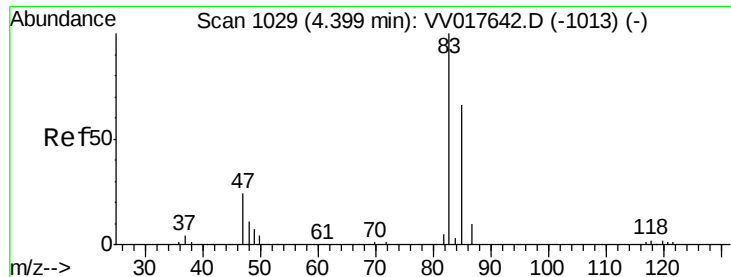
#22
cis-1,2-Dichloroethene
Concen: 0.065 ug/L
RT: 3.94 min Scan# 886
Delta R.T. 0.01 min
Lab File: VV017647.D
Acq: 24 Jul 2020 14:27

Tgt Ion: 96 Resp: 830
Ion Ratio Lower Upper
96 100
61 122.5 89.6 166.4
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0

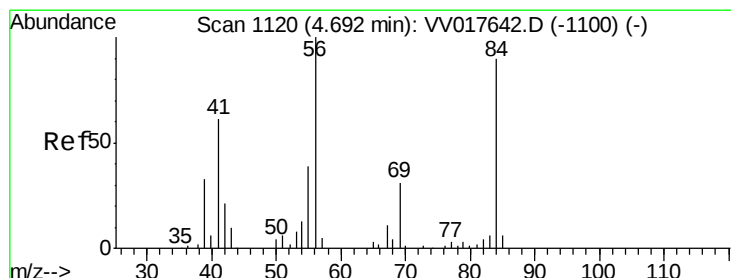
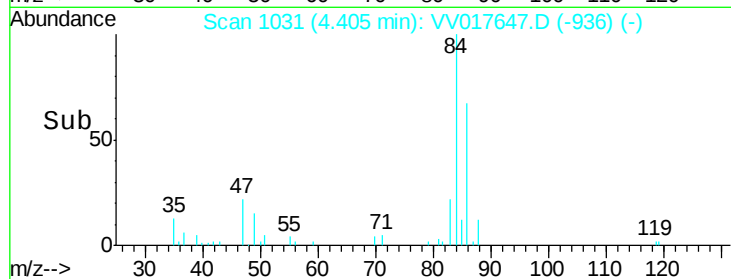
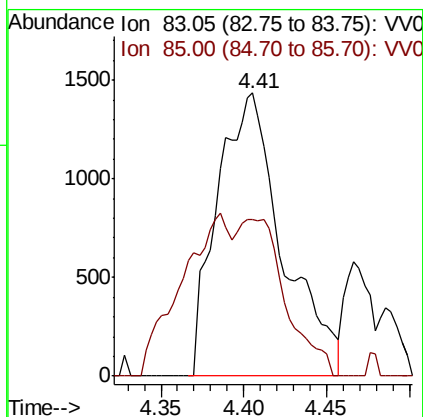
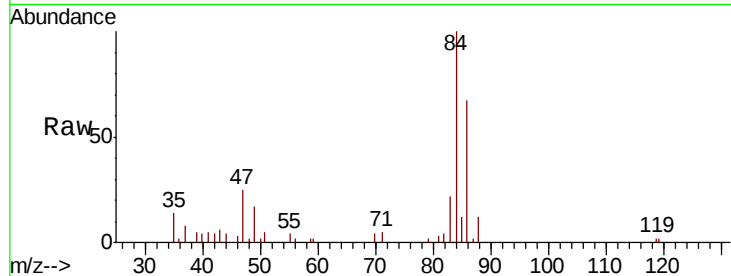




#25
Chloroform
Concen: 0.165 ug/L
RT: 4.41 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VV017647.D
Acq: 24 Jul 2020 14:27

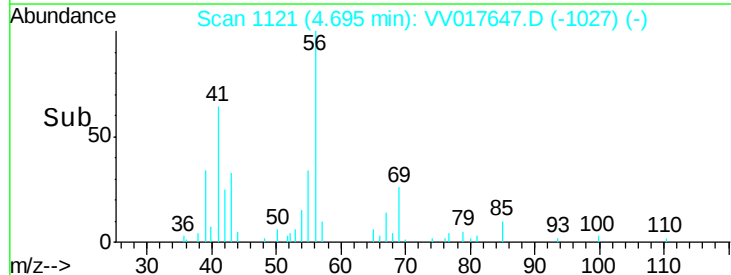
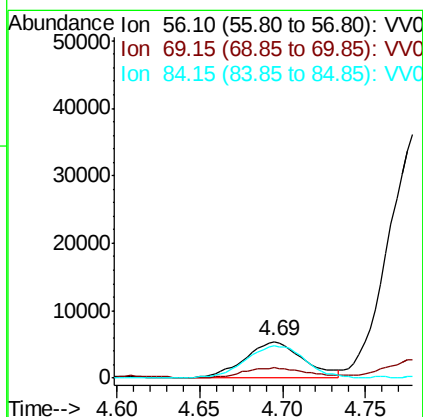
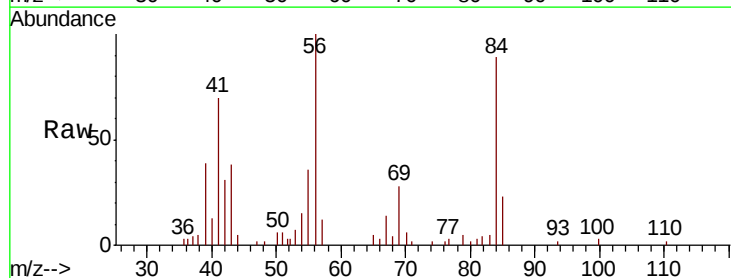
Instrument :
MSVOA_V
ClientSampled :

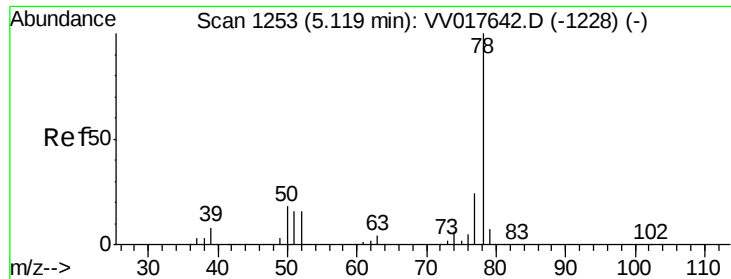
Tot Ion: 83 Resp: 3928
Ion Ratio Lower Upper
83 100
85 55.5 47.3 87.9



#30
Cyclohexane
Concen: 0.729 ug/L
RT: 4.69 min Scan# 1121
Delta R.T. 0.00 min
Lab File: VV017647.D
Acq: 24 Jul 2020 14:27

Tgt Ion: 56 Resp: 13309
Ion Ratio Lower Upper
56 100
69 31.8 25.4 38.2
84 90.1 73.0 109.4

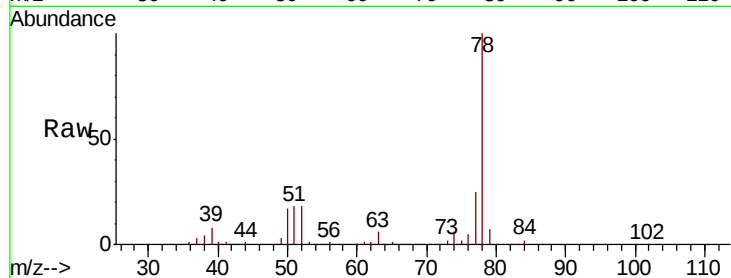




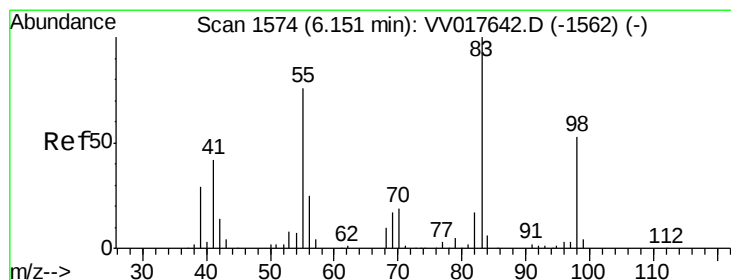
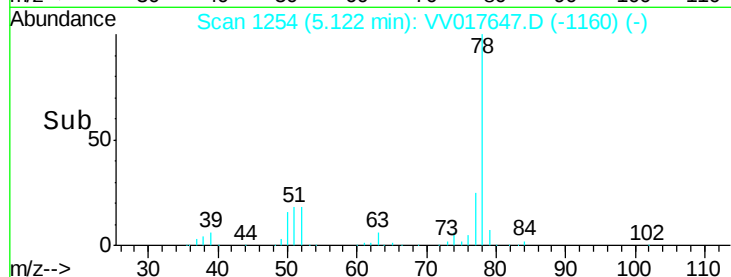
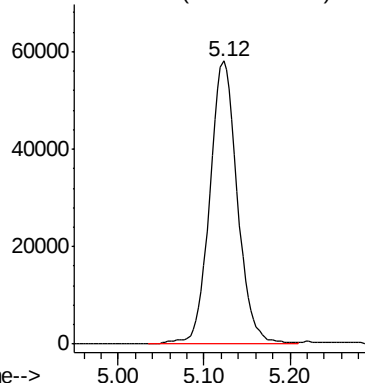
#33
Benzene
Concen: 2.799 ug/L
RT: 5.12 min Scan# 1254
Delta R.T. 0.00 min
Lab File: VV017647.D
Acq: 24 Jul 2020 14:27

Instrument :
MSVOA_V
ClientSampled :

Tgt Ion: 78 Resp: 130580

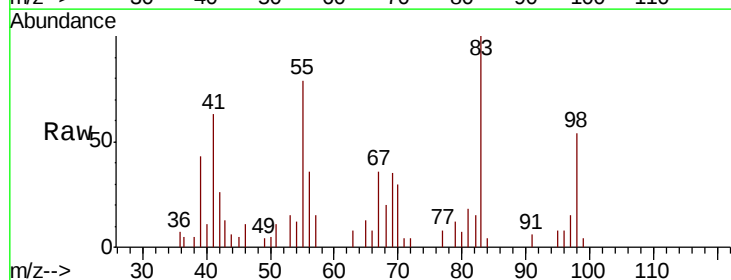


Abundance Ion 78.10 (77.80 to 78.80): VV0

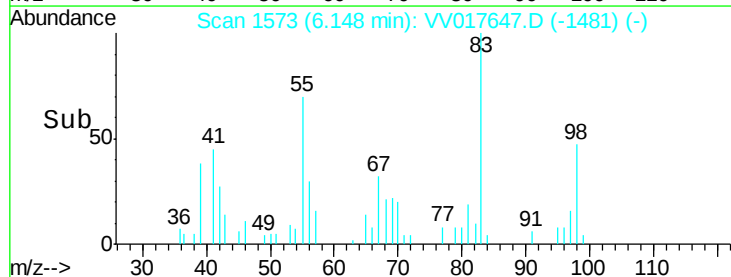
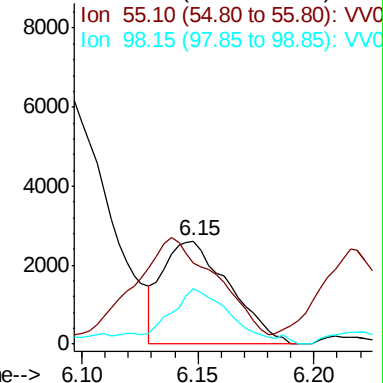


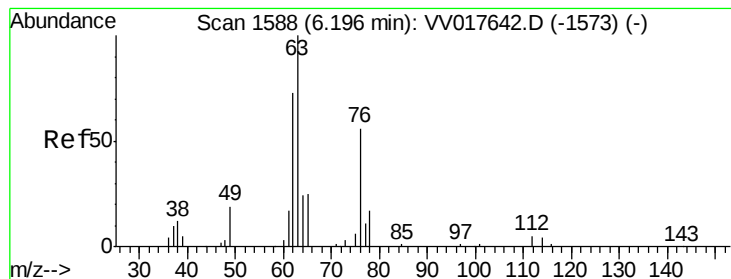
#35
Methylcyclohexane
Concen: 0.265 ug/L
RT: 6.15 min Scan# 1573
Delta R.T. -0.00 min
Lab File: VV017647.D
Acq: 24 Jul 2020 14:27

Tgt Ion: 83 Resp: 5217
Ion Ratio Lower Upper
83 100
55 138.4 61.8 92.8#
98 52.4 39.0 58.6



Abundance Ion 83.15 (82.85 to 83.85): VV0





#37

1,2-Dichloropropane

Concen: 0.581 ug/L

RT: 6.09 min Scan# 1555

Delta R.T. -0.11 min

Lab File: VV017647.D

Acq: 24 Jul 2020 14:27

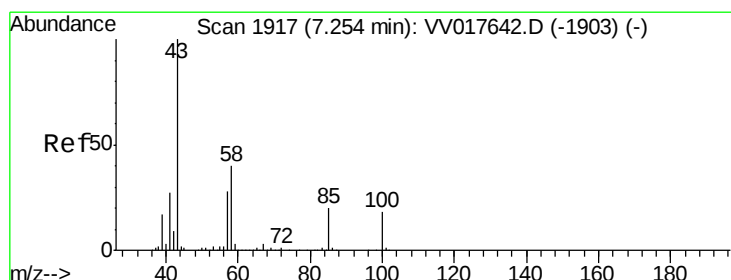
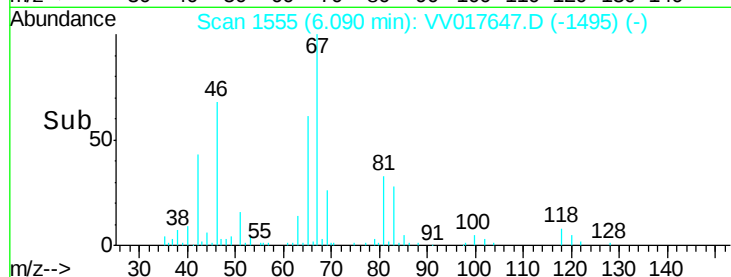
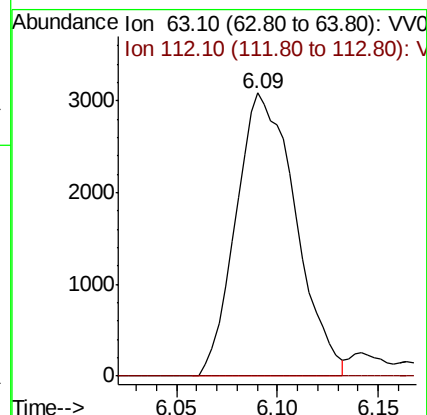
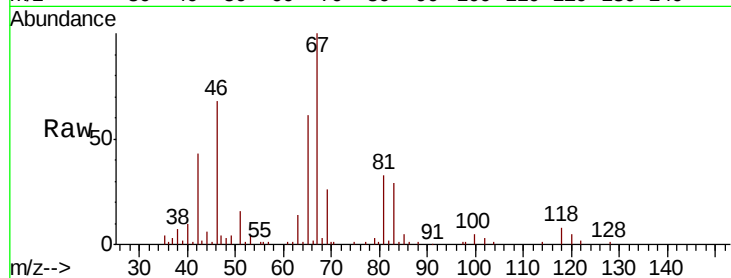
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 63 Resp: 6369

Ion Ratio Lower Upper

63 100

112 44.4 4.5 6.7#



#40

4-Methyl-2-pentanone

Concen: 1.597 ug/L

RT: 7.28 min Scan# 1926

Delta R.T. 0.03 min

Lab File: VV017647.D

Acq: 24 Jul 2020 14:27

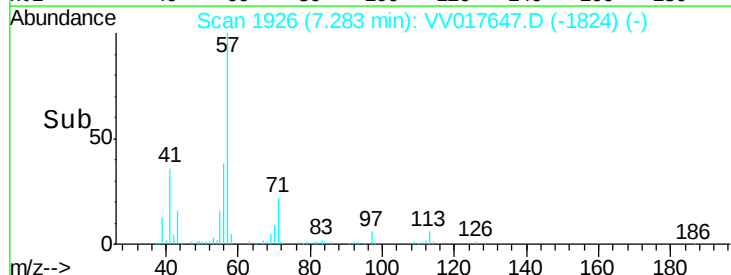
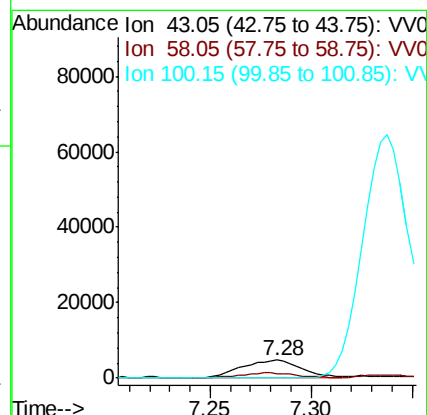
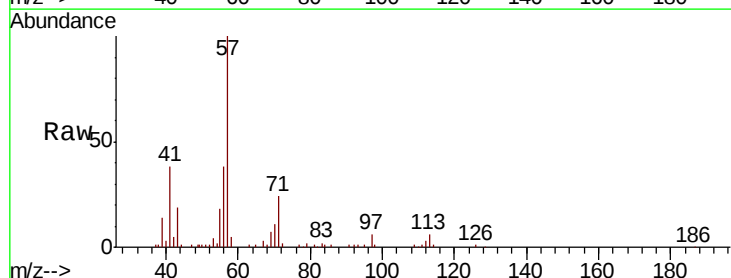
Tgt Ion: 43 Resp: 9600

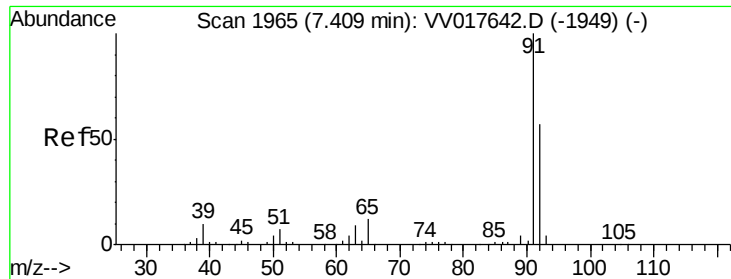
Ion Ratio Lower Upper

43 100

58 29.7 31.2 46.8#

100 0.0 13.6 20.4#





#42

Toluene

Concen: 0.590 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV017647.D

Acq: 24 Jul 2020 14:27

Instrument :

MSVOA_V

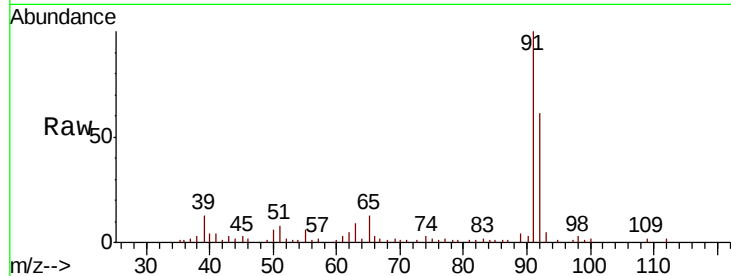
ClientSampleId :

Tot Ion: 91 Resp: 30023

Ion Ratio Lower Upper

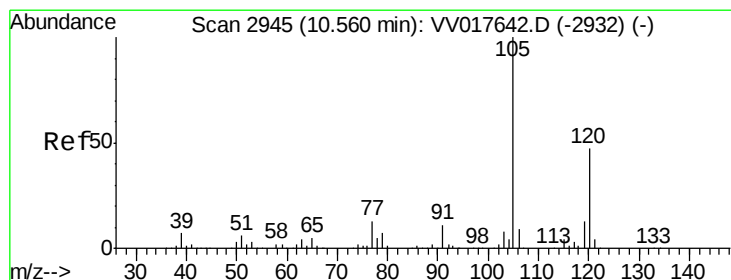
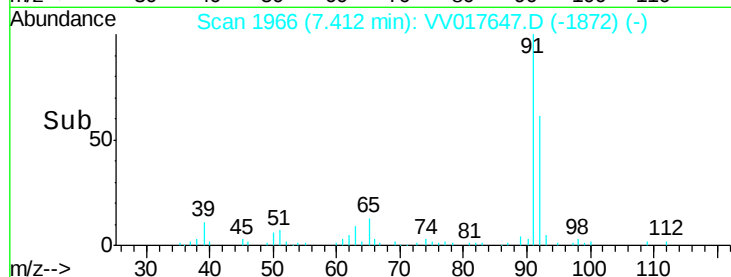
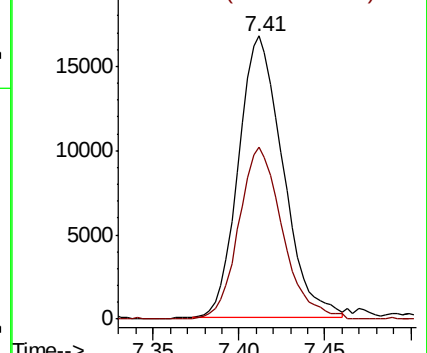
91 100

92 60.6 40.8 75.8



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0



#43

1,3,5-Trimethylbenzene

Concen: 0.833 ug/L

RT: 10.56 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VV017647.D

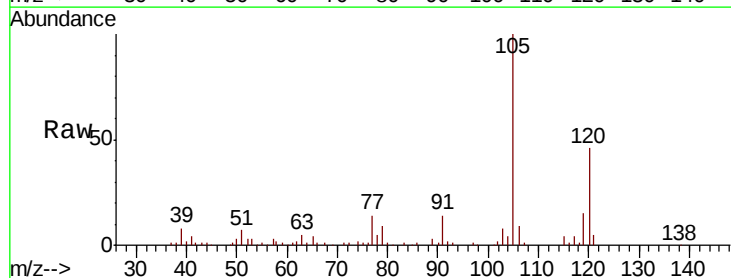
Acq: 24 Jul 2020 14:27

Tgt Ion:105 Resp: 39579

Ion Ratio Lower Upper

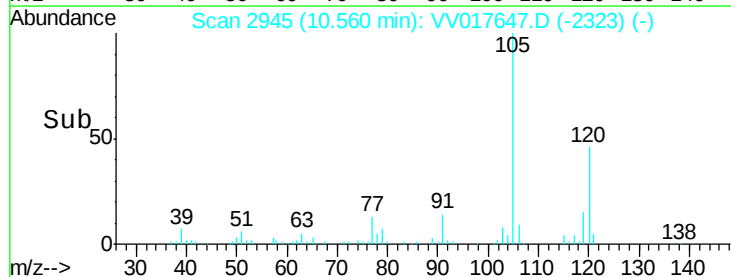
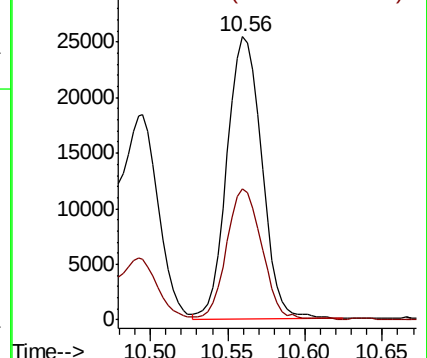
105 100

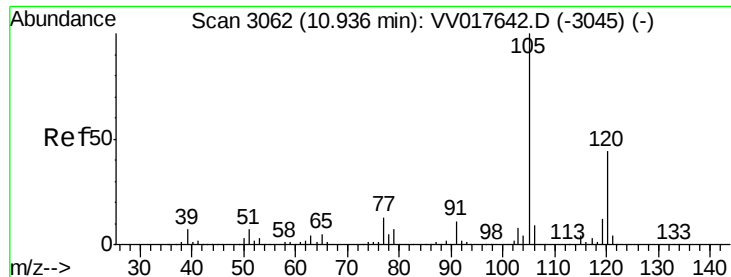
120 45.9 39.4 59.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

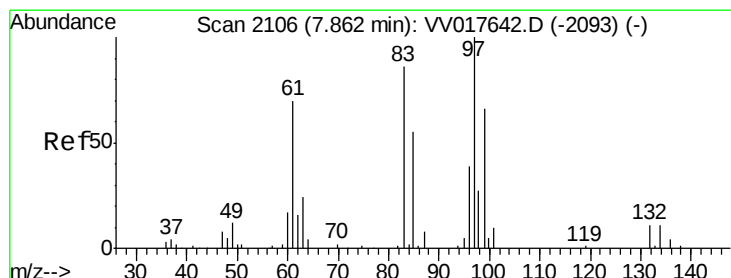
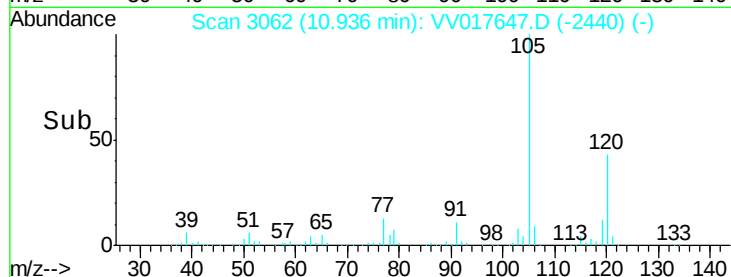
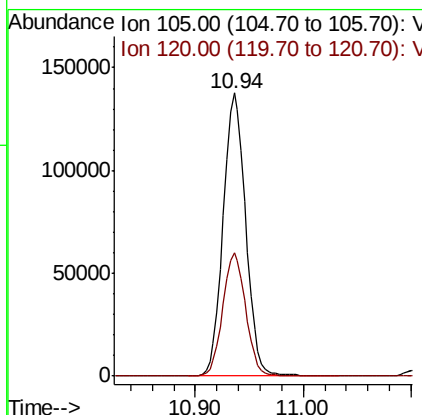
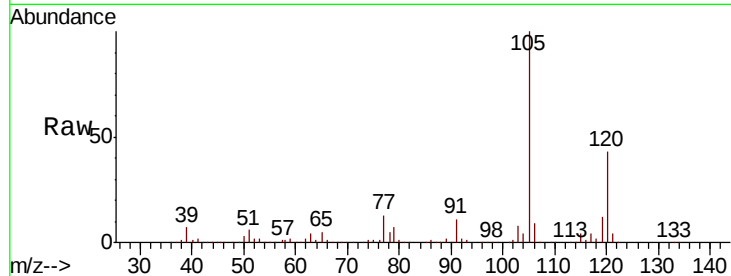




#44
 1,2,4-Trimethylbenzene
 Concen: 4.131 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. -0.00 min
 Lab File: VV017647.D
 Acq: 24 Jul 2020 14:27

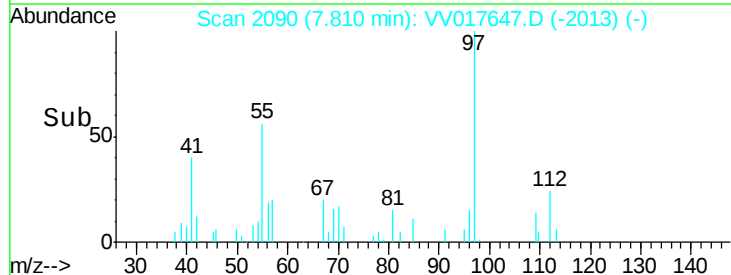
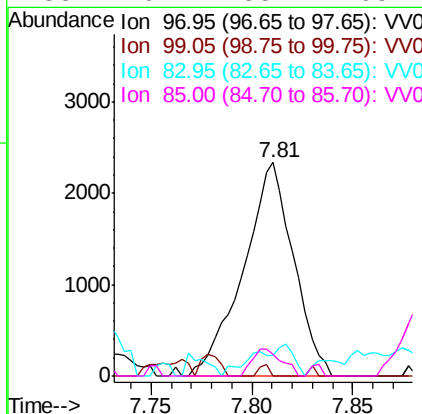
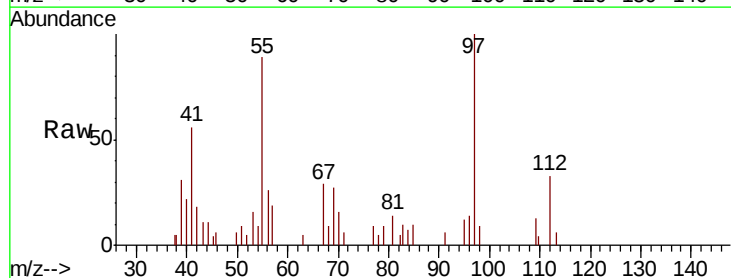
Instrument :
 MSVOA_V
 ClientSampled :

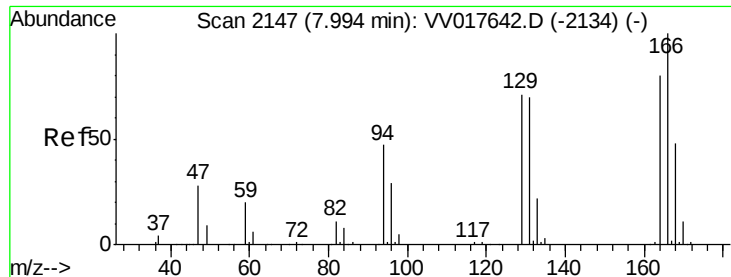
Tot Ion:105 Resp: 200513
 Ion Ratio Lower Upper
 105 100
 120 44.2 35.9 53.9



#47
 1,1,2-Trichloroethane
 Concen: 0.488 ug/L
 RT: 7.81 min Scan# 2090
 Delta R.T. -0.05 min
 Lab File: VV017647.D
 Acq: 24 Jul 2020 14:27

Tgt Ion: 97 Resp: 4056
 Ion Ratio Lower Upper
 97 100
 99 0.0 39.5 73.4#
 83 9.7 52.6 97.6#
 85 10.1 35.1 65.1#





#49

Tetrachloroethene

Concen: 0.140 ug/L

RT: 8.00 min Scan# 2149

Delta R.T. 0.01 min

Lab File: VV017647.D

Acq: 24 Jul 2020 14:27

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp: 1612

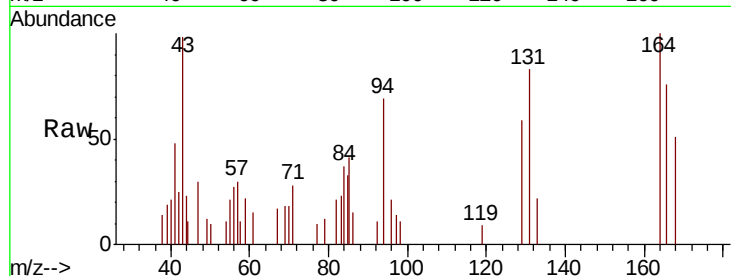
Ion Ratio Lower Upper

164 100

129 58.9 65.0 120.8#

131 83.4 63.6 118.2

166 76.2 91.7 170.3#

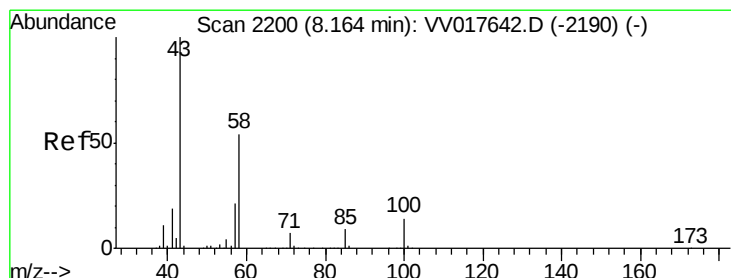
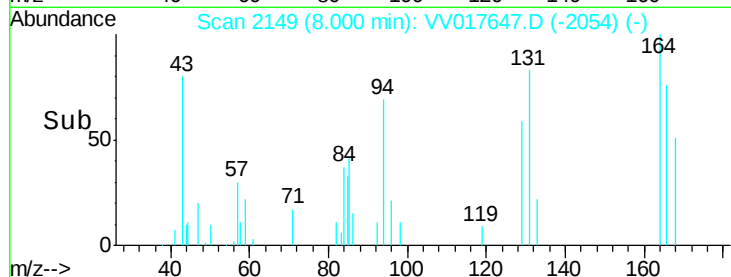
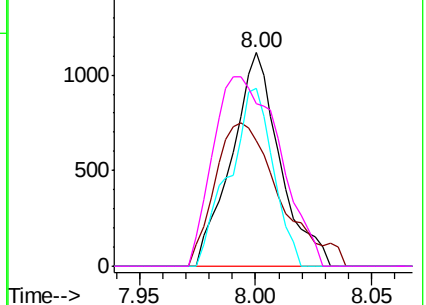


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.704 ug/L

RT: 8.18 min Scan# 2205

Delta R.T. 0.02 min

Lab File: VV017647.D

Acq: 24 Jul 2020 14:27

Tgt Ion: 43 Resp: 2996

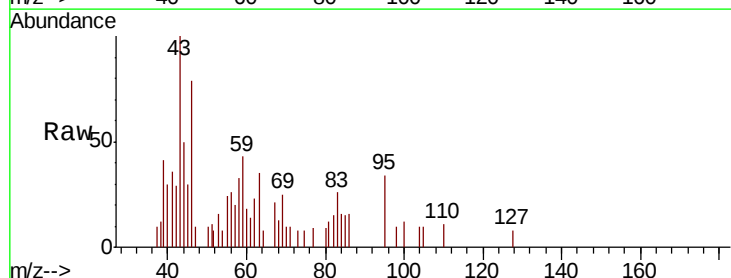
Ion Ratio Lower Upper

43 100

58 33.8 41.6 62.4#

57 9.8 15.4 23.0#

100 4.2 11.2 16.8#

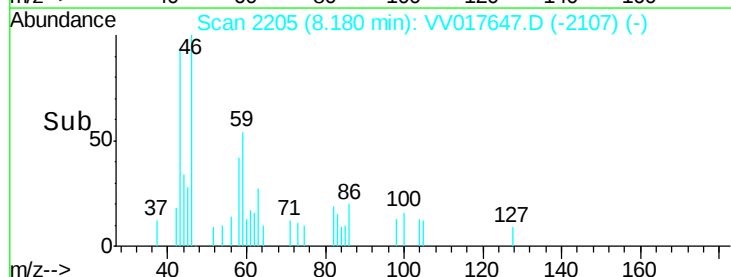
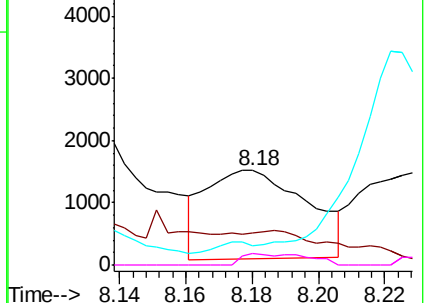


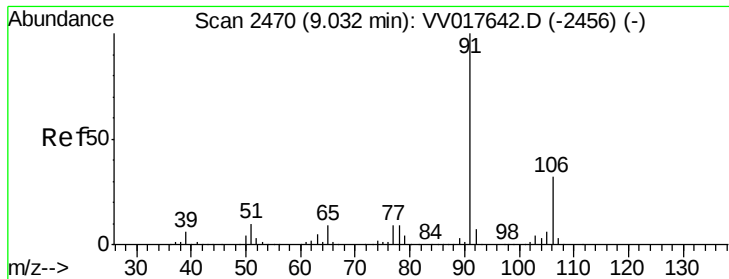
Abundance Ion 43.05 (42.75 to 43.75): VV0

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: 0.901 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VV017647.D

Acq: 24 Jul 2020 14:27

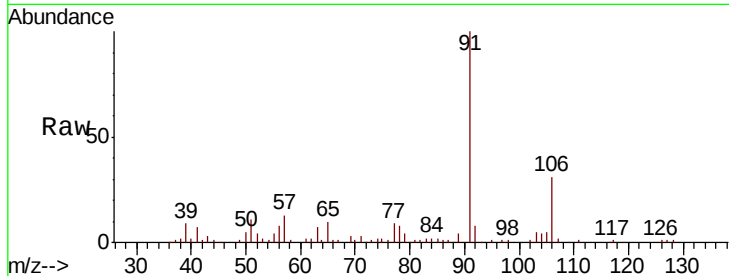
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 51355

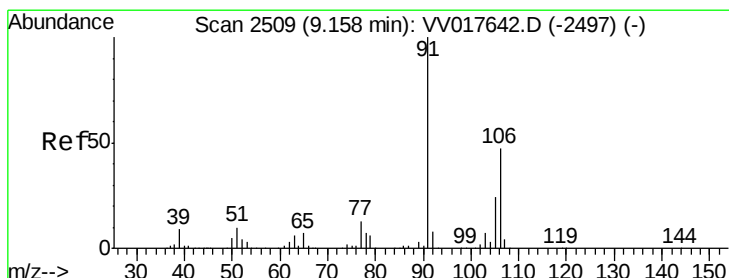
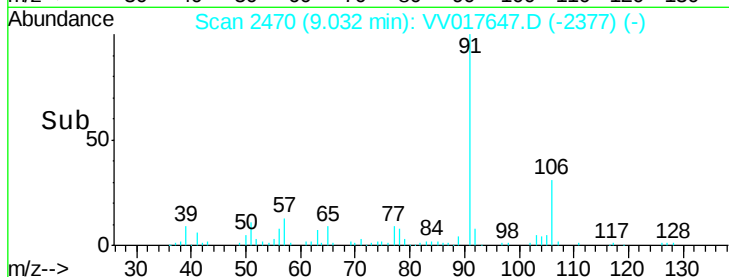
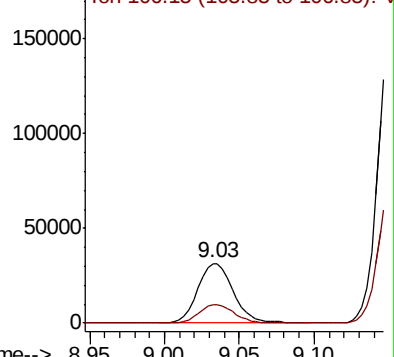
Ion Ratio Lower Upper

91 100

106 31.1 21.6 40.2



Abundance Ion 91.15 (90.85 to 91.85): VV017647.D (-2377) (-)



#55

m,p-xylene

Concen: 7.326 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV017647.D

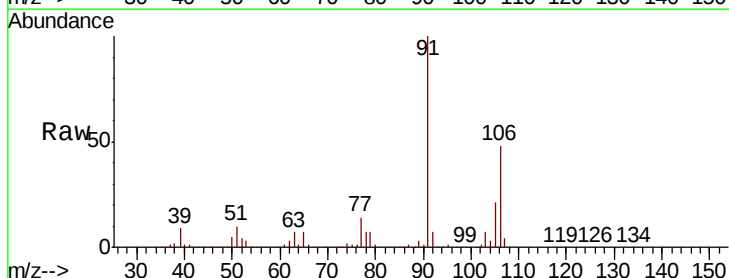
Acq: 24 Jul 2020 14:27

Tgt Ion: 106 Resp: 157186

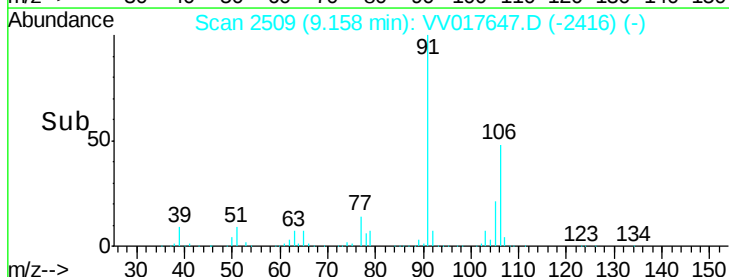
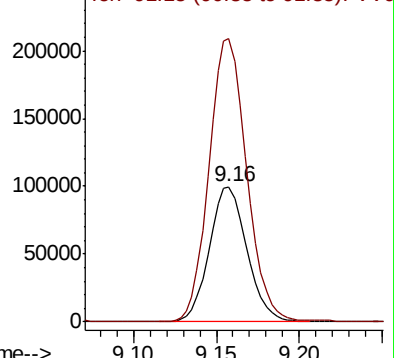
Ion Ratio Lower Upper

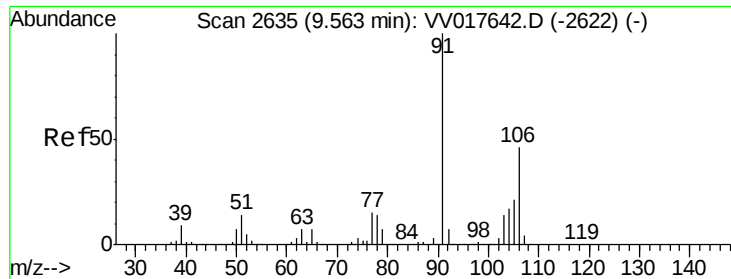
106 100

91 209.2 141.3 262.3



Abundance Ion 106.15 (105.85 to 106.85): VV017647.D (-2416) (-)

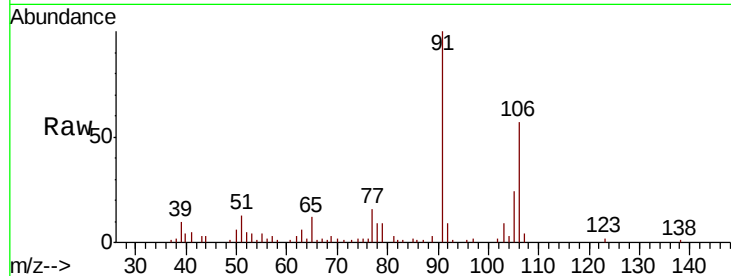




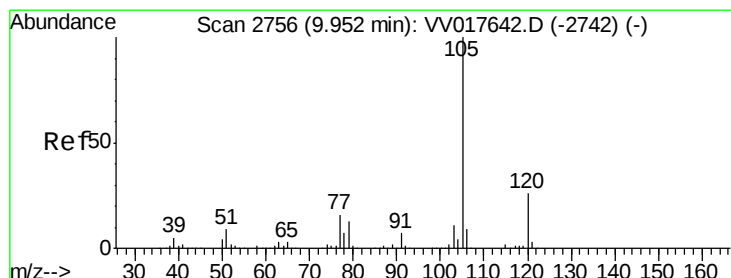
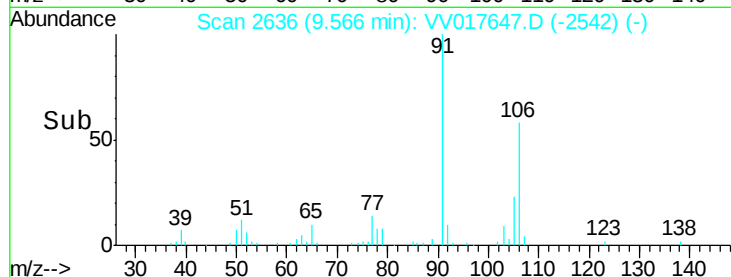
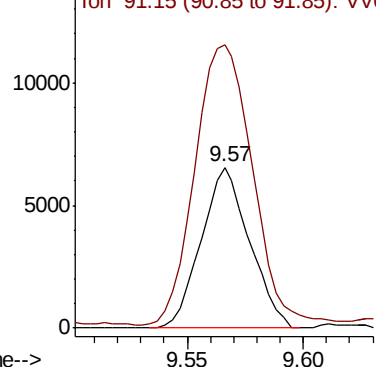
#56
o-xylene
Concen: 0.456 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. 0.00 min
Lab File: VV017647.D
Acq: 24 Jul 2020 14:27

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 9493
Ion Ratio Lower Upper
106 100
91 176.0 153.9 285.7

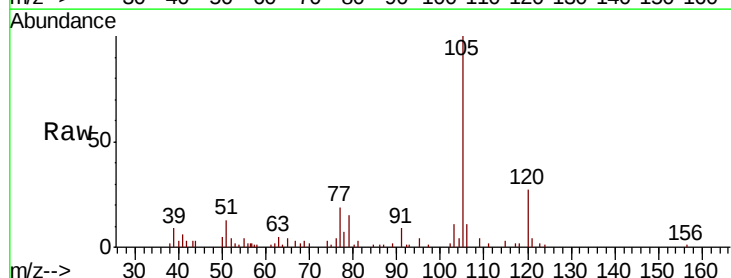


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

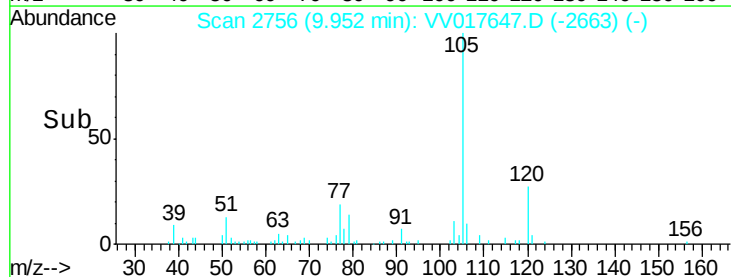
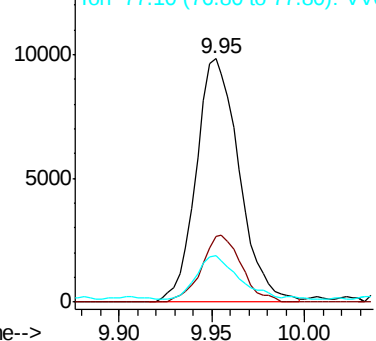


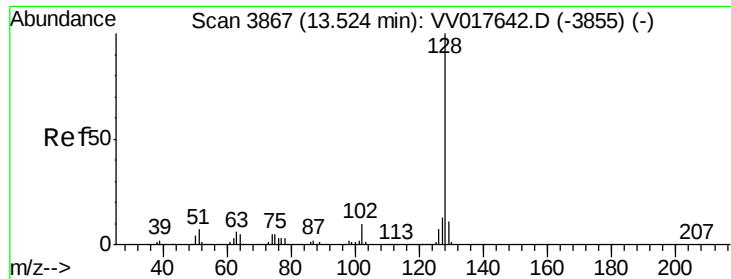
#58
Isopropylbenzene
Concen: 0.277 ug/L
RT: 9.95 min Scan# 2756
Delta R.T. -0.00 min
Lab File: VV017647.D
Acq: 24 Jul 2020 14:27

Tgt Ion:105 Resp: 15932
Ion Ratio Lower Upper
105 100
120 25.4 21.1 31.7
77 19.0 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): VV0





#70

Naphthalene

Concen: 0.740 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. 0.00 min

Lab File: VV017647.D

Acq: 24 Jul 2020 14:27

Instrument :

MSVOA_V

ClientSampleId :

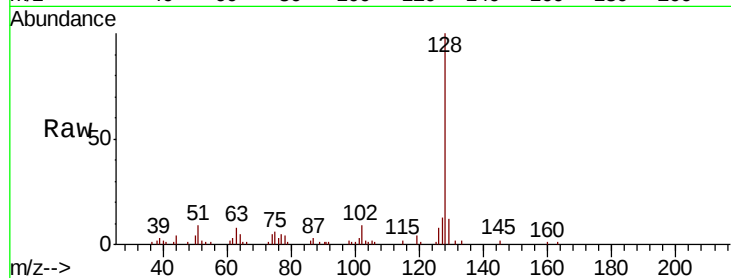
Tot Ion:128 Resp: 20707

Ion Ratio Lower Upper

128 100

129 15.6 9.1 13.7#

127 17.0 11.0 16.6#



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

