

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV072420\
 Data File : VV017649.D
 Acq On : 24 Jul 2020 15:16
 Operator : SY/MD
 Sample : L3395-16DL 5X
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jul 25 00:10:15 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	5.65	114	17983	5.00	ug/L	0.02
28) Chlorobenzene-d5	8.88	117	12672	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.28	152	4681	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	6018	7.01	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	140.20%#
7) Chloroethane-d5	1.58	69	4338	6.60	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	132.00%#
11) 1,1-Dichloroethene-d2	2.13	63	10627	5.52	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	110.40%
20) 2-Butanone-d5	3.94	46	2437	11.86	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	23.72%#
24) Chloroform-d	4.38	84	8527	4.10	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.00%
26) 1,2-Dichloroethane-d4	5.07	65	3408	3.18	ug/L	0.02
Spiked Amount	5.000	Range	70 - 130	Recovery	=	63.60%#
32) Benzene-d6	5.08	84	16404	5.87	ug/L	0.02
Spiked Amount	5.000	Range	70 - 125	Recovery	=	117.40%
36) 1,2-Dichloropropane-d6	6.10	67	3757	4.84	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.80%
41) Toluene-d8	7.34	98	15419	5.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	115.20%
45) trans-1,3-Dichloropropene-	7.66	79	944	2.68	ug/L	0.02
Spiked Amount	5.000	Range	55 - 130	Recovery	=	53.60%#
48) 2-Hexanone-d5	8.22	63	54	0.50	ug/L	0.11
Spiked Amount	50.000	Range	45 - 130	Recovery	=	1.00%#
59) 1,1,2,2-Tetrachloroethane-	10.24	84	1178	2.18	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	43.60%#
65) 1,2-Dichlorobenzene-d4	11.65	152	3009	4.25	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	85.00%

Target Compounds

				Ovalue
6) Bromomethane	1.60	94	71	0.086 ug/L # 3
8) Chloroethane	1.58	64	183	0.247 ug/L 99
13) Acetone	2.17	43	1446	8.992 ug/L 81
14) Carbon disulfide	2.32	76	306	0.104 ug/L # 9
15) Methyl Acetate	2.46	43	97	0.310 ug/L # 41
16) Methylene chloride	2.52	84	1206	1.119 ug/L 84
27) 1,2-Dichloroethane	5.17	62	151	0.094 ug/L # 76
30) Cyclohexane	4.70	56	1643	1.170 ug/L # 89
33) Benzene	5.13	78	4450	1.241 ug/L 100
35) Methylcyclohexane	6.15	83	157	0.104 ug/L # 1
37) 1,2-Dichloropropane	6.28	63	73	0.087 ug/L # 83
38) Bromodichloromethane	6.71	83	70	0.056 ug/L # 25
42) Toluene	7.42	91	2166	0.554 ug/L 86
43) 1,3,5-Trimethylbenzene	10.57	105	1857	0.508 ug/L 92
44) 1,2,4-Trimethylbenzene	10.94	105	6599	1.768 ug/L 93
50) 2-Hexanone	8.15	43	224	0.685 ug/L # 84
54) Ethylbenzene	9.04	91	3181	0.726 ug/L 97

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QLast Update : Sat Jul 25 00:05:26 2020
Response via : Initial Calibration

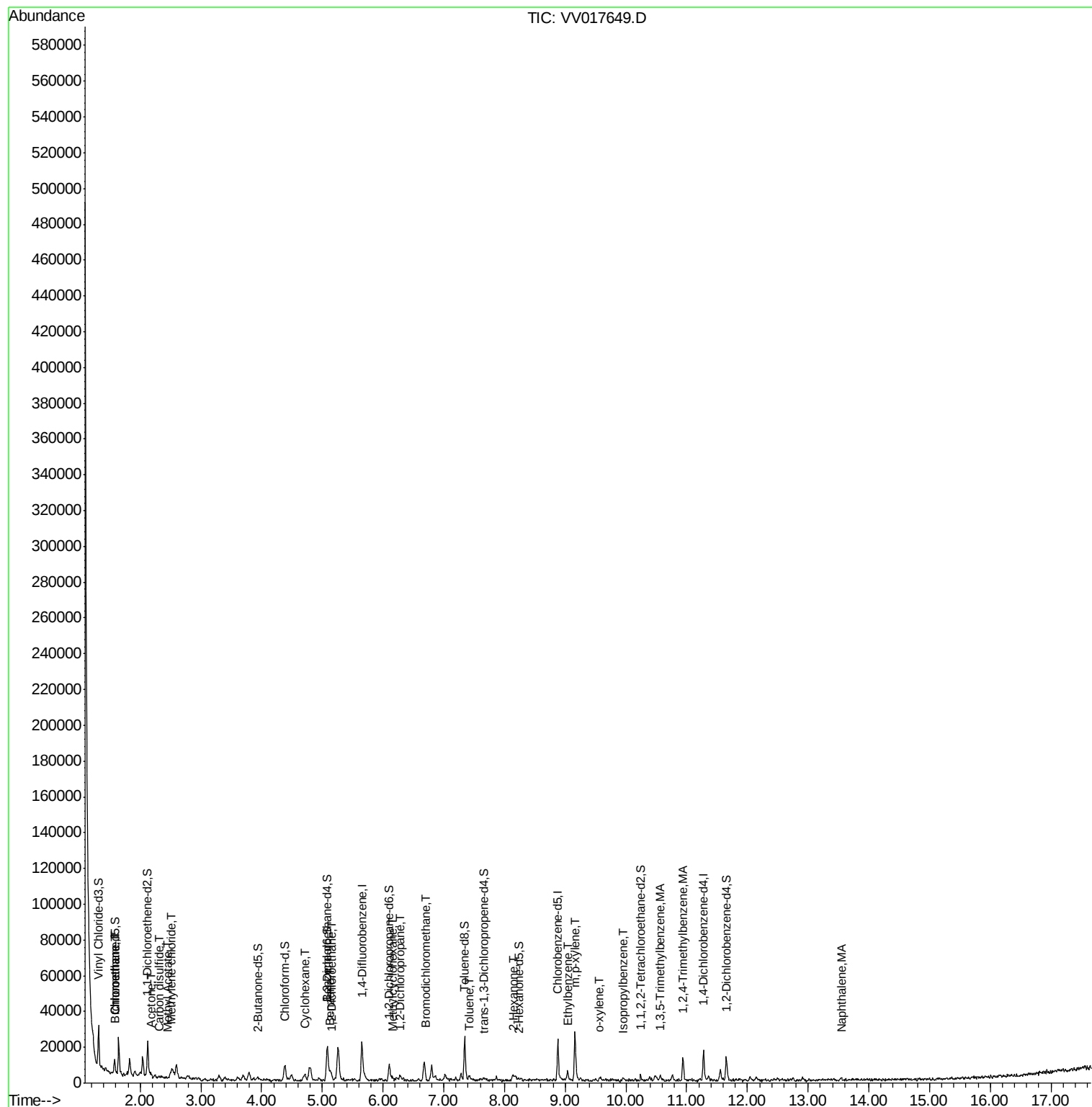
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
55) m,p-xylene	9.16	106	7967	4.829	ug/L	94
56) o-xylene	9.57	106	743	0.464	ug/L #	57
58) Isopropylbenzene	9.96	105	673	0.152	ug/L #	79
70) Naphthalene	13.55	128	803	0.562	ug/L #	74

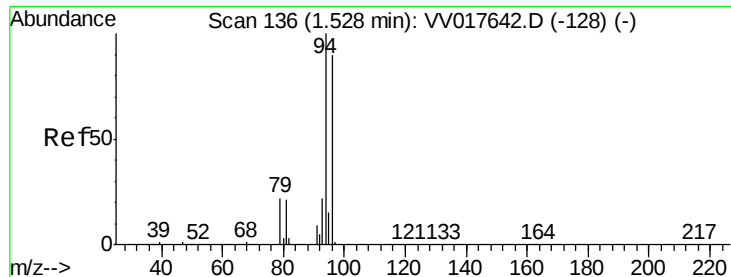
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#6

Bromomethane

Concen: 0.086 ug/L

RT: 1.60 min Scan# 159

Delta R.T. 0.07 min

Lab File: VV017649.D

Acq: 24 Jul 2020 15:16

Instrument :

MSVOA_V

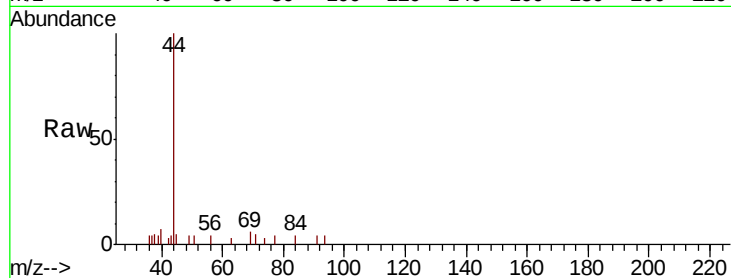
ClientSampled :

Tot Ion: 94 Resp: 71

Ion Ratio Lower Upper

94 100

96 0.0 65.9 122.5#



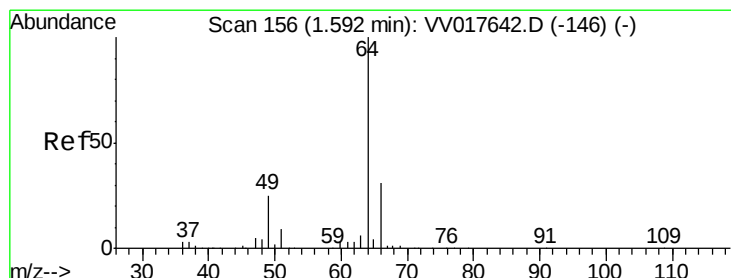
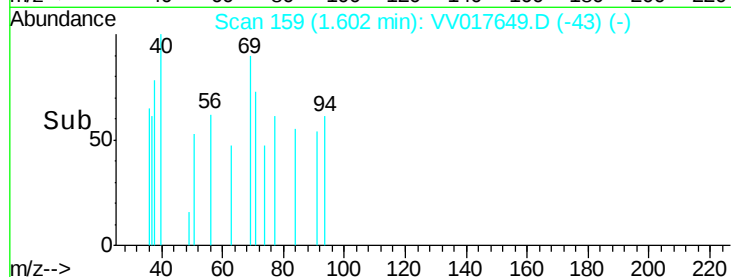
Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0

1.60

1.61

Time-->



#8

Chloroethane

Concen: 0.247 ug/L

RT: 1.58 min Scan# 153

Delta R.T. -0.01 min

Lab File: VV017649.D

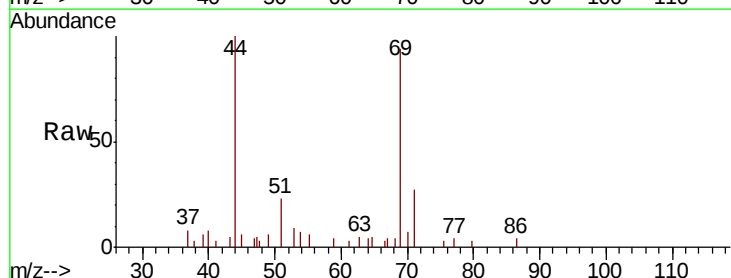
Acq: 24 Jul 2020 15:16

Tgt Ion: 64 Resp: 183

Ion Ratio Lower Upper

64 100

66 33.4 24.0 44.6



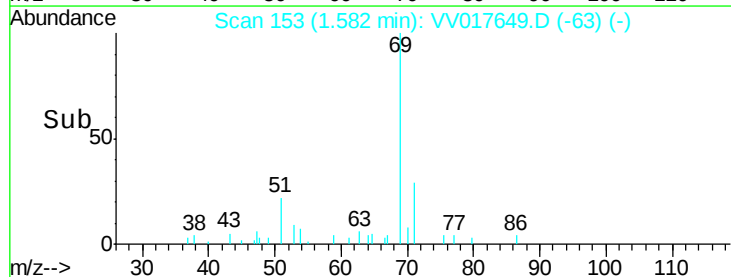
Abundance Ion 64.10 (63.80 to 64.80): VV0

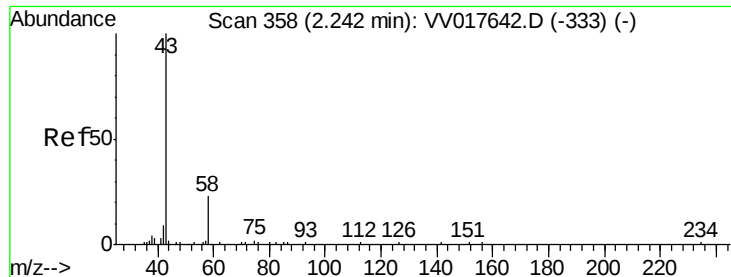
Ion 66.05 (65.75 to 66.75): VV0

1.58

1.59

Time-->





#13

Acetone

Concen: 8.992 ug/L

RT: 2.17 min Scan# 337

Delta R.T. -0.07 min

Lab File: VV017649.D

Acq: 24 Jul 2020 15:16

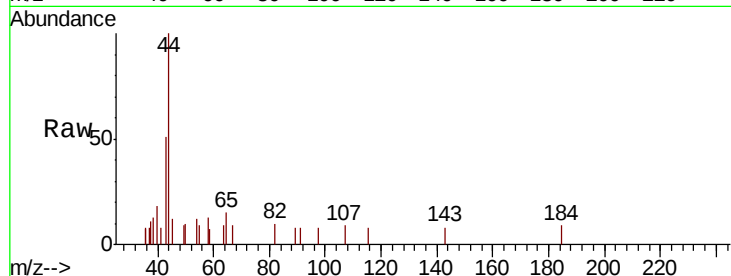
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 1446

Ion Ratio Lower Upper

43 100

58 16.1 0.0 18.6



Abundance Ion 43.05 (42.75 to 43.75): VV017642.D (-333) (-)

Ion 58.05 (57.75 to 58.75): VV017642.D (-333) (-)

2.17

600

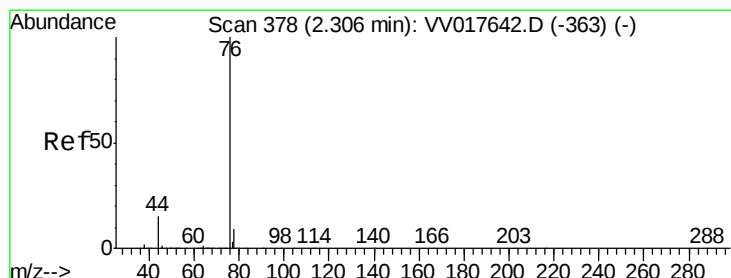
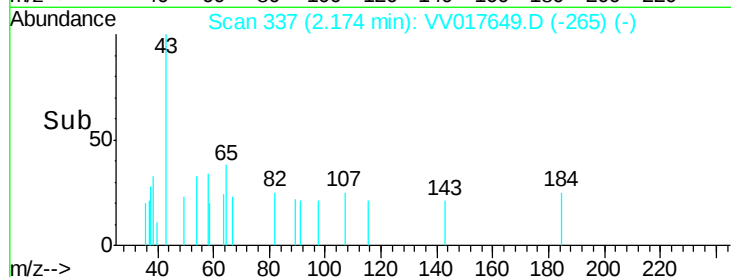
400

200

0

2.15 2.20

Time-->



#14

Carbon disulfide

Concen: 0.104 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.01 min

Lab File: VV017649.D

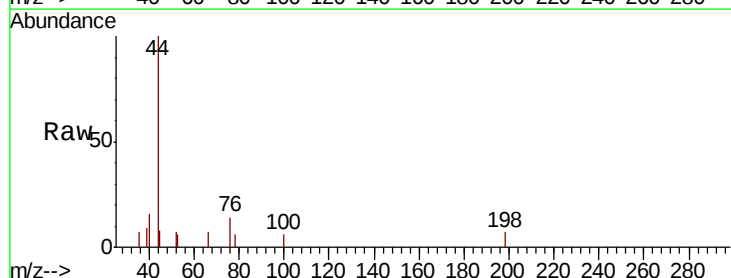
Acq: 24 Jul 2020 15:16

Tgt Ion: 76 Resp: 306

Ion Ratio Lower Upper

76 100

78 40.8 6.6 10.0#



Abundance Ion 76.05 (75.75 to 76.75): VV017642.D (-363) (-)

Ion 78.00 (77.70 to 78.70): VV017642.D (-363) (-)

2.32

300

250

200

150

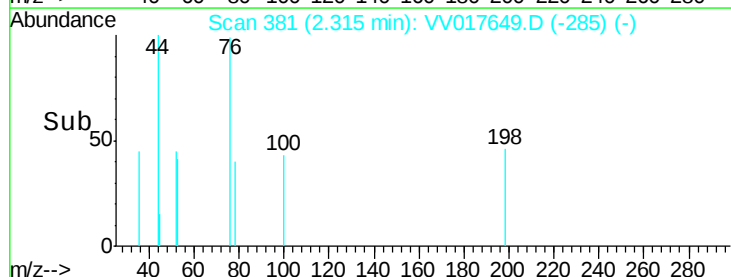
100

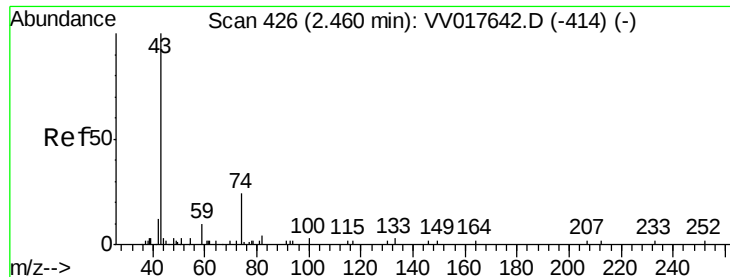
50

0

2.30 2.32 2.34

Time-->





#15

Methvl Acetate

Concen: 0.310 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VV017649.D

Acq: 24 Jul 2020 15:16

Instrument :

MSVOA_V

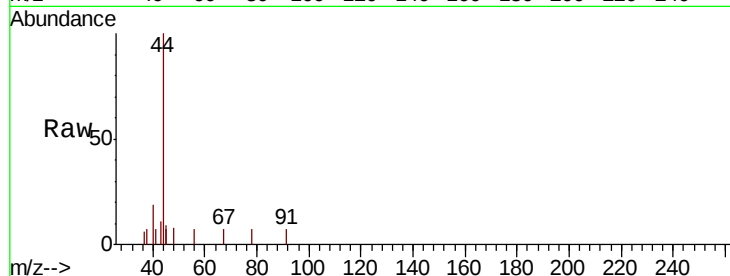
ClientSampleId :

Tot Ion: 43 Resp: 97

Ion Ratio Lower Upper

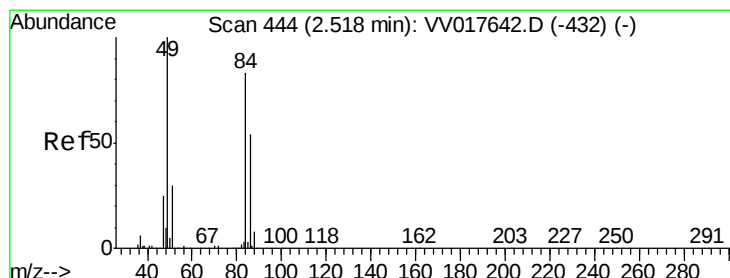
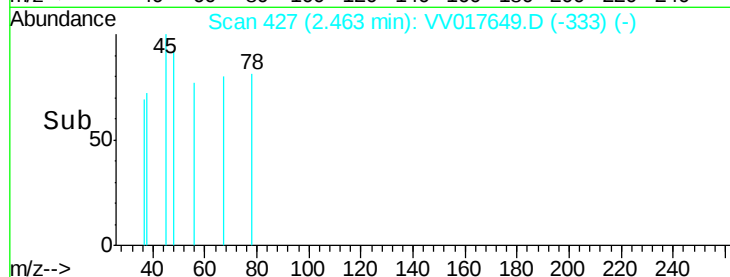
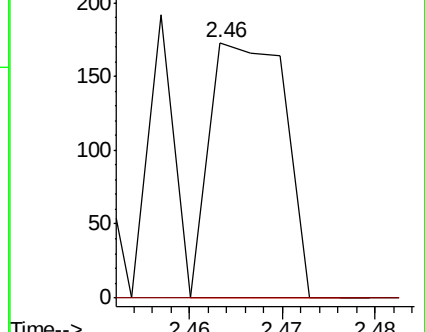
43 100

74 0.0 26.6 40.0#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



#16

Methylene chloride

Concen: 1.119 ug/L

RT: 2.52 min Scan# 446

Delta R.T. 0.01 min

Lab File: VV017649.D

Acq: 24 Jul 2020 15:16

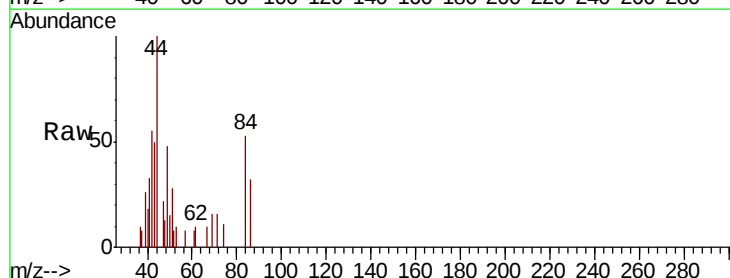
Tgt Ion: 84 Resp: 1206

Ion Ratio Lower Upper

84 100

86 60.4 46.5 86.3

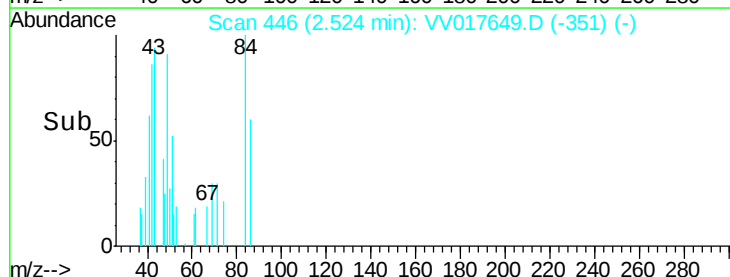
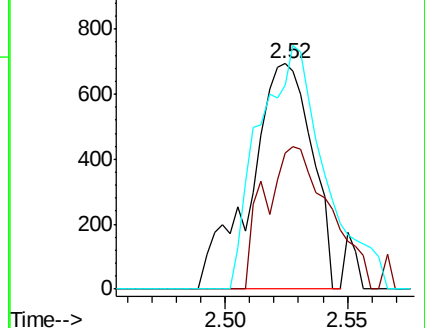
49 90.6 79.2 147.2

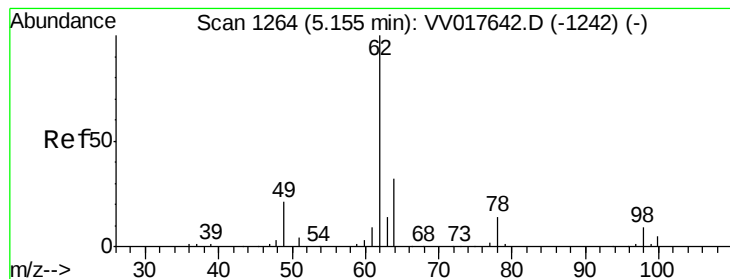


Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

Ion 49.10 (48.80 to 49.80): VV0





#27

1,2-Dichloroethane

Concen: 0.094 ug/L

RT: 5.17 min Scan# 1268

Delta R.T. 0.01 min

Lab File: VV017649.D

Acq: 24 Jul 2020 15:16

Instrument :

MSVOA_V

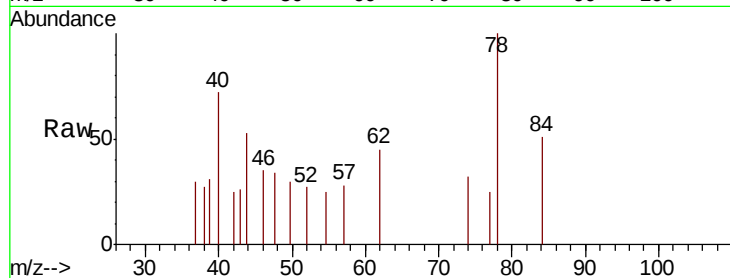
ClientSampled :

Tot Ion: 62 Resp: 151

Ion Ratio Lower Upper

62 100

98 0.0 7.0 10.6#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.05 (97.75 to 98.75): VV0

5.17

200

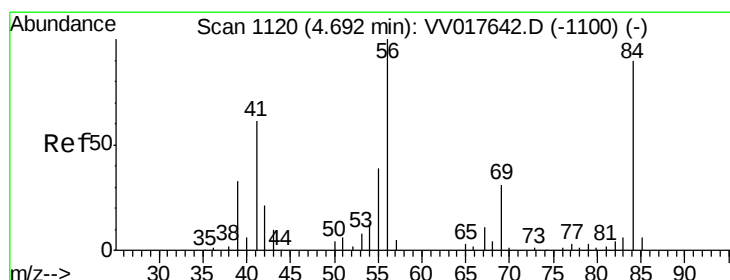
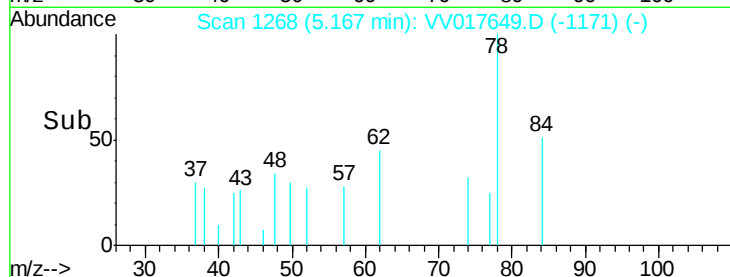
150

100

50

0

Time-->



#30

Cyclohexane

Concen: 1.170 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.01 min

Lab File: VV017649.D

Acq: 24 Jul 2020 15:16

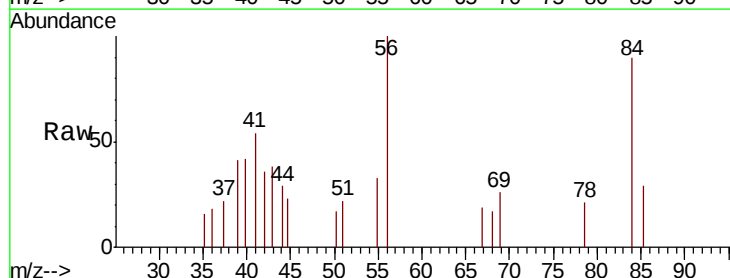
Tgt Ion: 56 Resp: 1643

Ion Ratio Lower Upper

56 100

69 12.7 25.4 38.2#

84 88.7 73.0 109.4



Abundance Ion 56.10 (55.80 to 56.80): VV0

Ion 69.15 (68.85 to 69.85): VV0

Ion 84.15 (83.85 to 84.85): VV0

4.70

800

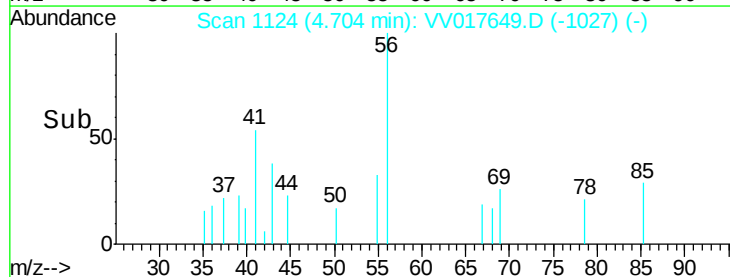
600

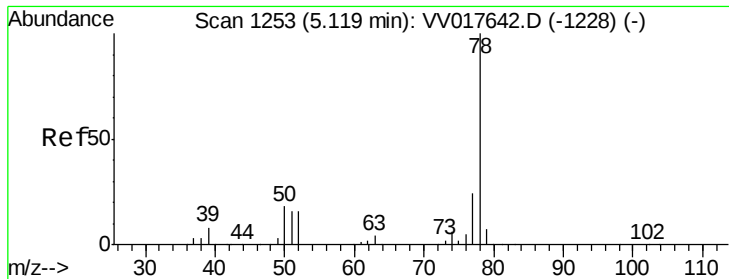
400

200

0

Time-->

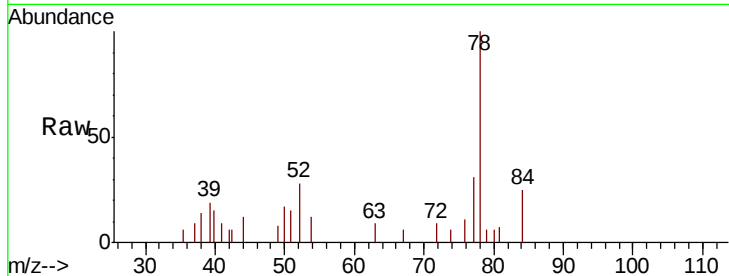




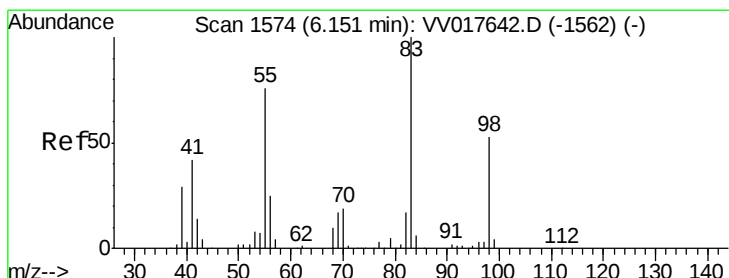
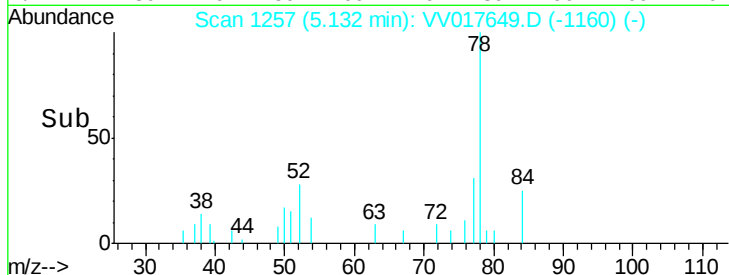
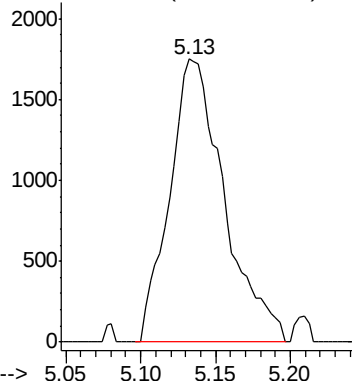
#33
Benzene
Concen: 1.241 ug/L
RT: 5.13 min Scan# 1257
Delta R.T. 0.01 min
Lab File: VV017649.D
Acq: 24 Jul 2020 15:16

Instrument :
MSVOA_V
ClientSampled :

Tgt Ion: 78 Resp: 4450

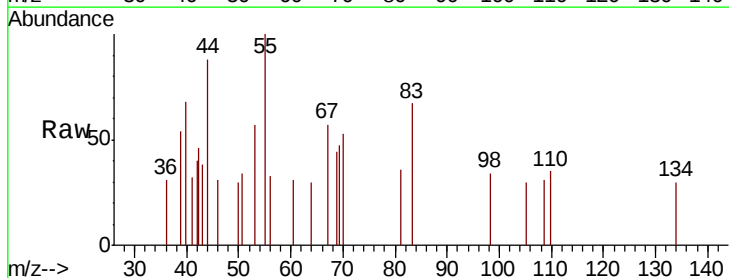


Abundance Ion 78.10 (77.80 to 78.80): VV0

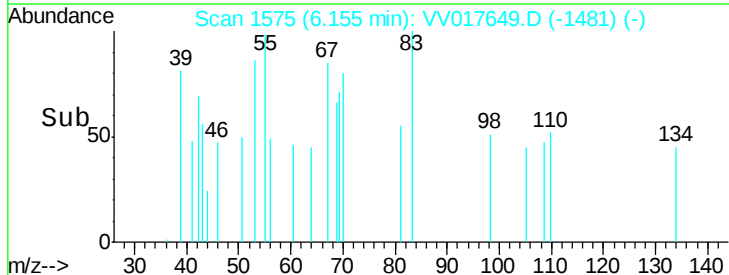
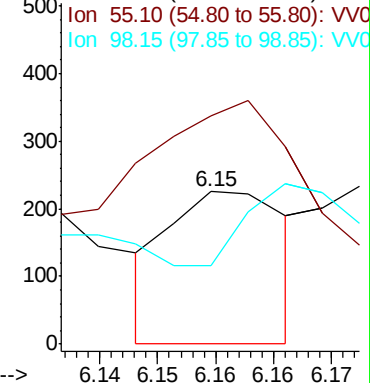


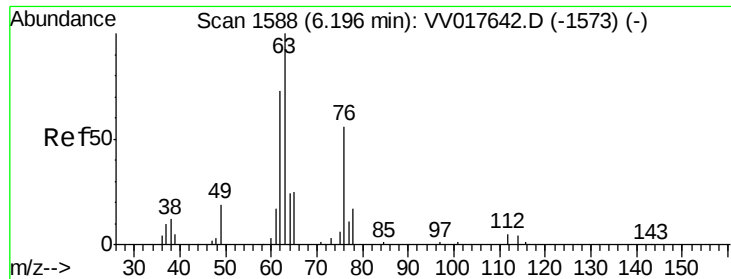
#35
Methylcyclohexane
Concen: 0.104 ug/L
RT: 6.15 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VV017649.D
Acq: 24 Jul 2020 15:16

Tgt Ion: 83 Resp: 157
Ion Ratio Lower Upper
83 100
55 287.3 61.8 92.8#
98 149.0 39.0 58.6#



Abundance Ion 83.15 (82.85 to 83.85): VV0

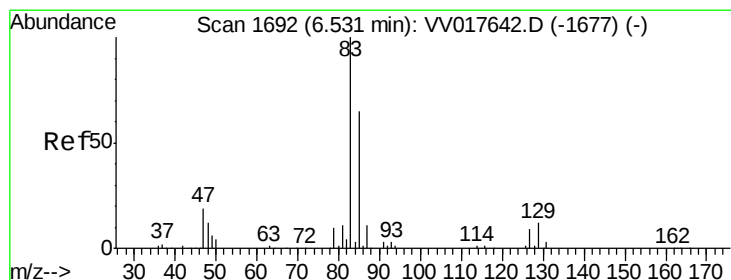
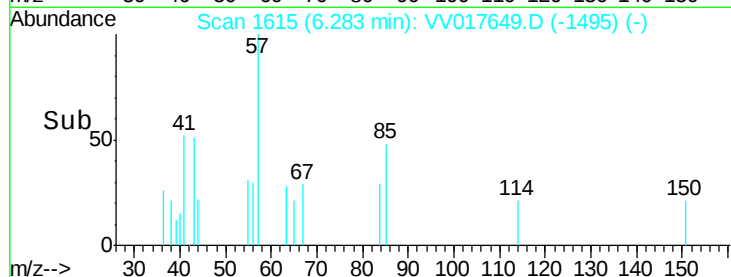
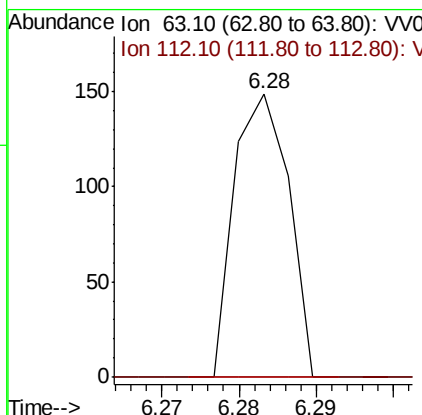
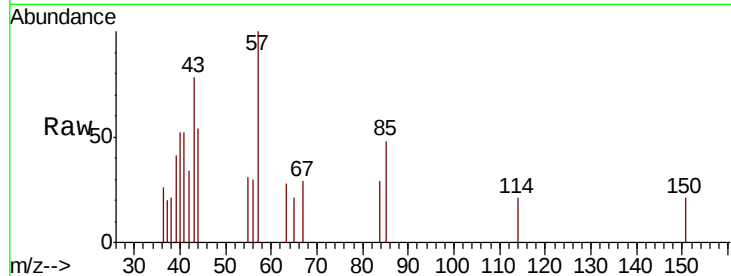




#37
 1,2-Dichloropropane
 Concen: 0.087 ug/L
 RT: 6.28 min Scan# 1615
 Delta R.T. 0.09 min
 Lab File: VV017649.D
 Acq: 24 Jul 2020 15:16

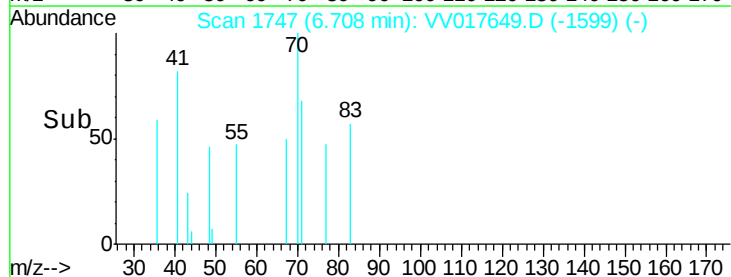
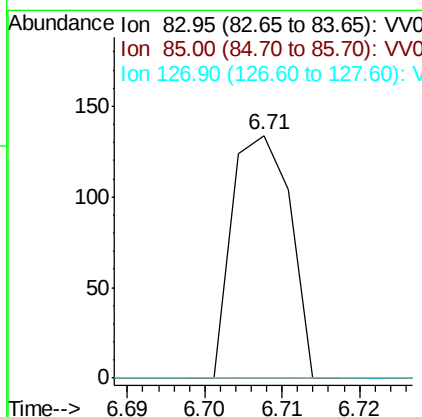
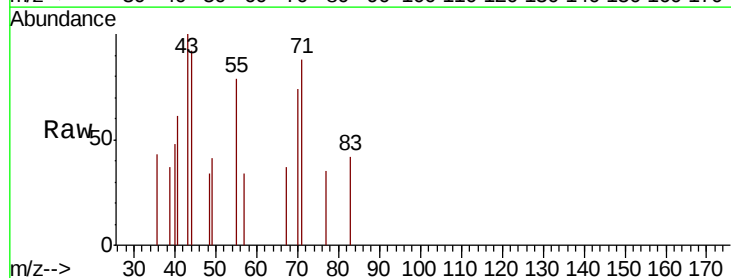
Instrument :
 MSVOA_V
 ClientSampled :

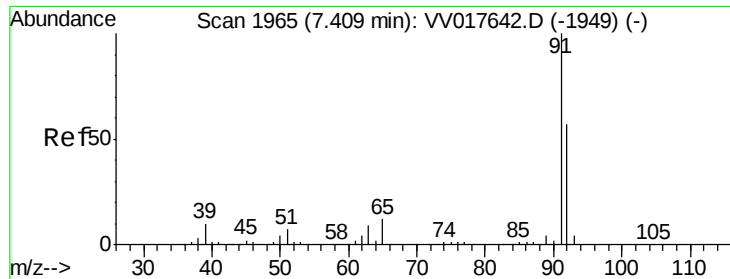
Tot Ion: 63 Resp: 73
 Ion Ratio Lower Upper
 63 100
 112 0.0 4.5 6.7#



#38
 Bromodichloromethane
 Concen: 0.056 ug/L
 RT: 6.71 min Scan# 1747
 Delta R.T. 0.18 min
 Lab File: VV017649.D
 Acq: 24 Jul 2020 15:16

Tgt Ion: 83 Resp: 70
 Ion Ratio Lower Upper
 83 100
 85 0.0 44.7 83.1#
 127 0.0 7.4 11.0#





#42

Toluene

Concen: 0.554 ug/L

RT: 7.42 min Scan# 1968

Delta R.T. 0.01 min

Lab File: VV017649.D

Acq: 24 Jul 2020 15:16

Instrument :

MSVOA_V

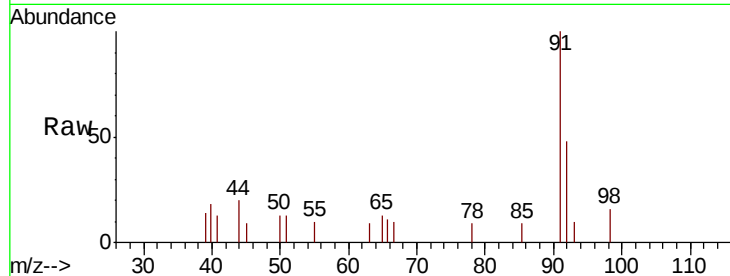
ClientSampleId :

Tot Ion: 91 Resp: 2166

Ion Ratio Lower Upper

91 100

92 47.8 40.8 75.8



Abundance Ion 91.15 (90.85 to 91.85): VV017642.D (-1949) (-)

Ion 92.15 (91.85 to 92.85): VV017642.D (-1949) (-)

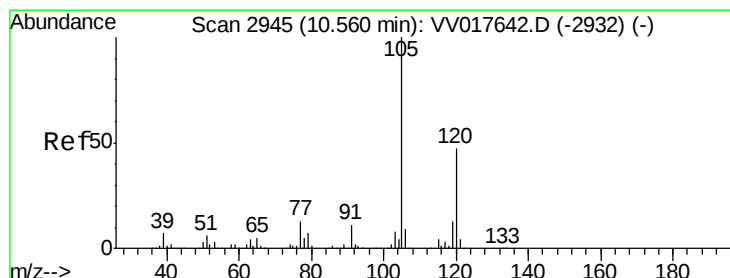
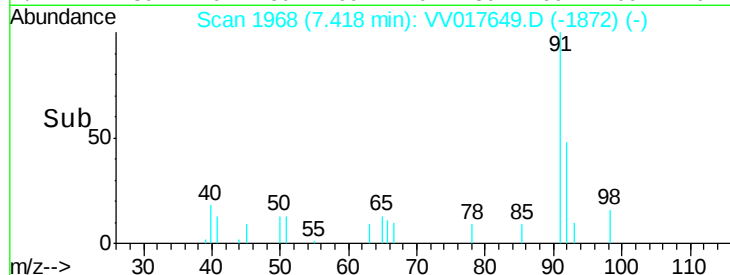
7.42

1000

500

0

Time-->



#43

1,3,5-Trimethylbenzene

Concen: 0.508 ug/L

RT: 10.57 min Scan# 2948

Delta R.T. 0.01 min

Lab File: VV017649.D

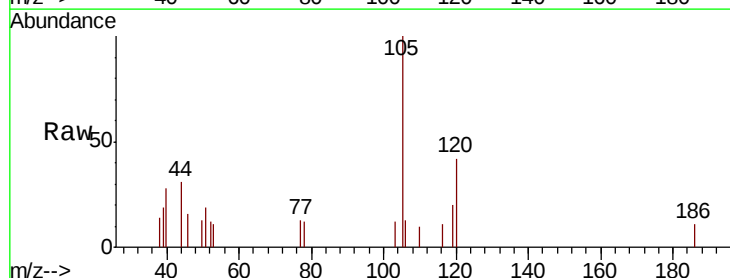
Acq: 24 Jul 2020 15:16

Tgt Ion:105 Resp: 1857

Ion Ratio Lower Upper

105 100

120 43.6 39.4 59.2



Abundance Ion 105.00 (104.70 to 105.70): VV017642.D (-2932) (-)

Ion 120.00 (119.70 to 120.70): VV017642.D (-2932) (-)

10.57

1000

800

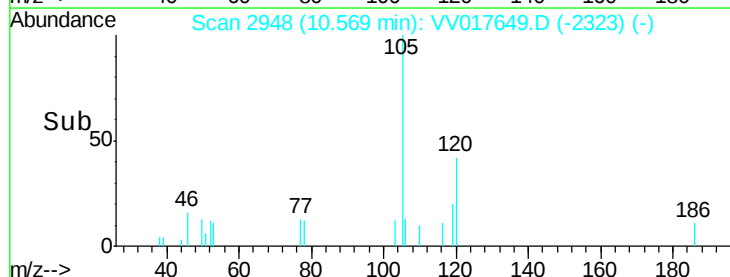
600

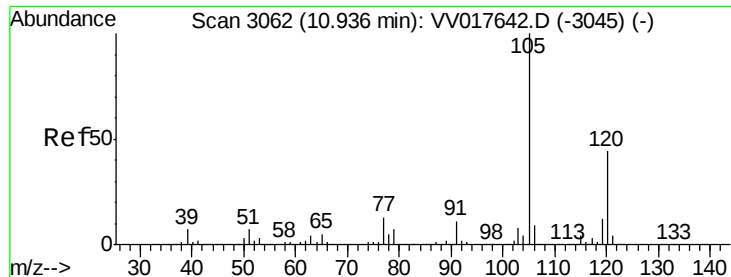
400

200

0

Time-->

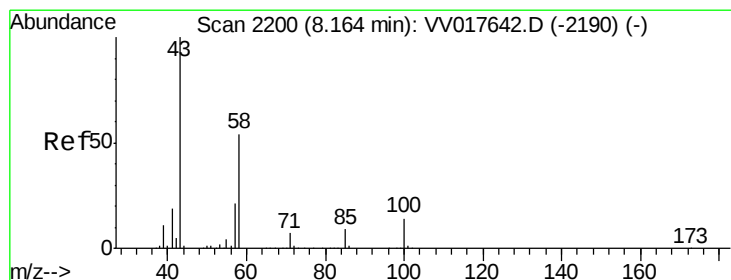
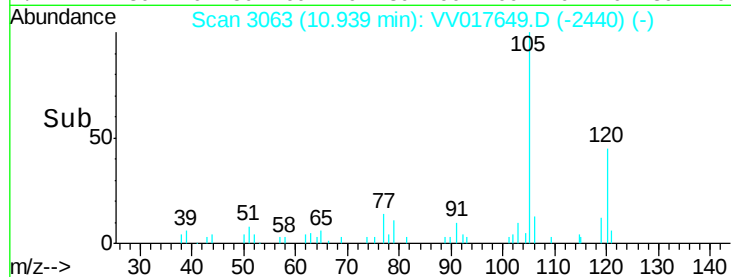
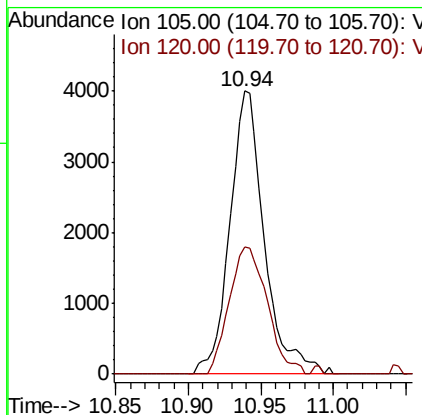
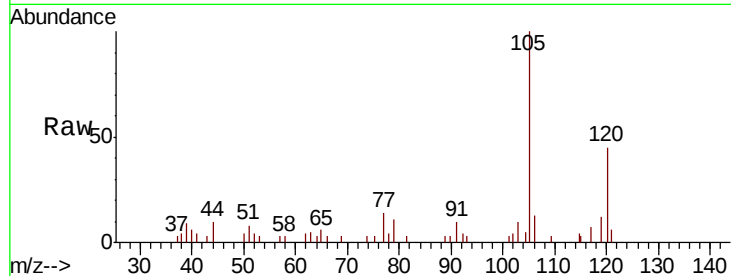




#44
 1,2,4-Trimethylbenzene
 Concen: 1.768 ug/L
 RT: 10.94 min Scan# 3063
 Delta R.T. 0.00 min
 Lab File: VV017649.D
 Acq: 24 Jul 2020 15:16

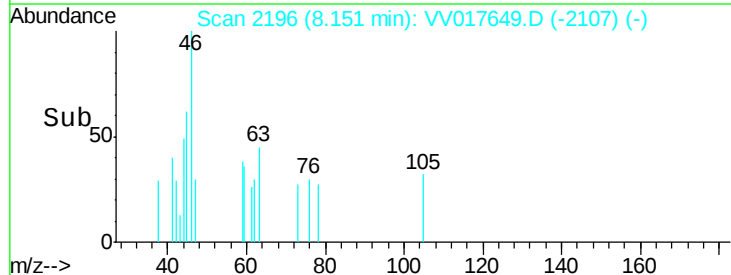
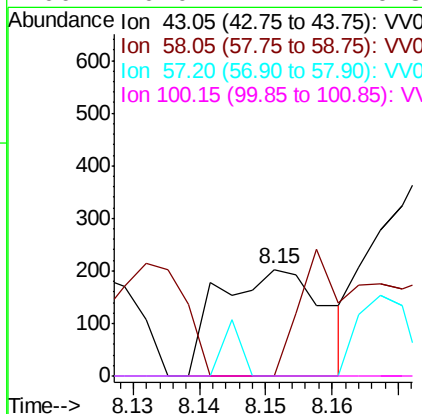
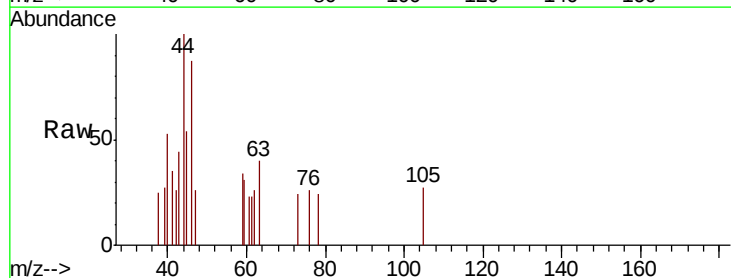
Instrument :
 MSVOA_V
 ClientSampled :

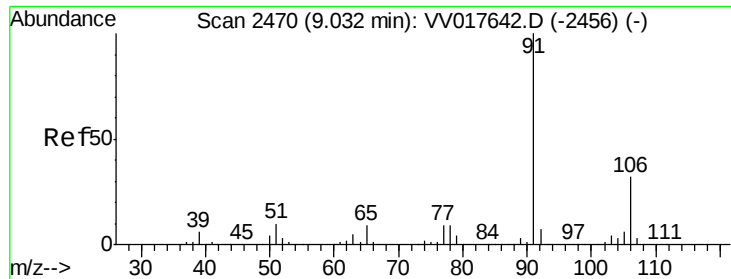
Tot Ion:105 Resp: 6599
 Ion Ratio Lower Upper
 105 100
 120 49.6 35.9 53.9



#50
 2-Hexanone
 Concen: 0.685 ug/L
 RT: 8.15 min Scan# 2196
 Delta R.T. -0.01 min
 Lab File: VV017649.D
 Acq: 24 Jul 2020 15:16

Tgt Ion: 43 Resp: 224
 Ion Ratio Lower Upper
 43 100
 58 58.0 41.6 62.4
 57 9.4 15.4 23.0#
 100 0.0 11.2 16.8#





#54

Ethylbenzene

Concen: 0.726 ug/L

RT: 9.04 min Scan# 2473

Delta R.T. 0.01 min

Lab File: VV017649.D

Acq: 24 Jul 2020 15:16

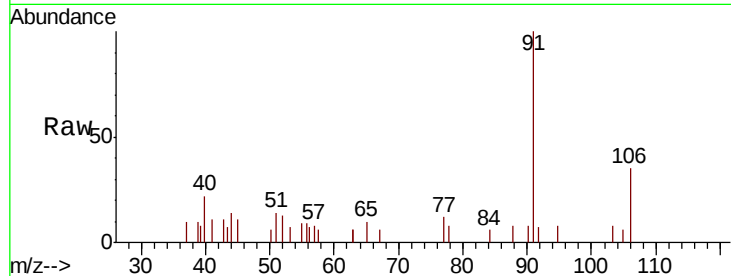
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 3181

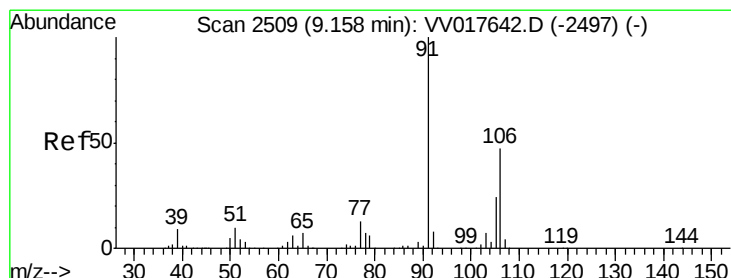
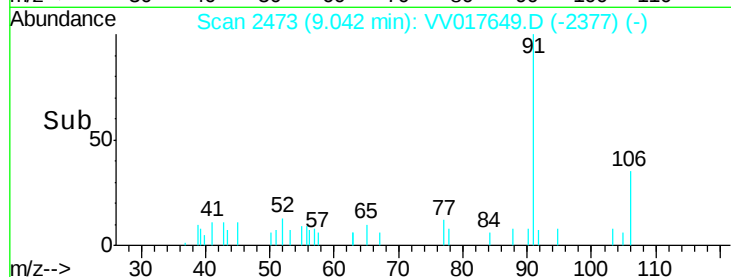
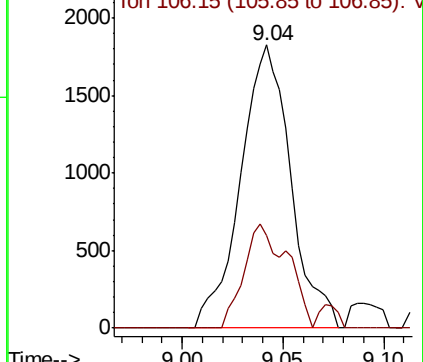
Ion Ratio Lower Upper

91 100

106 32.7 21.6 40.2



Abundance Ion 91.15 (90.85 to 91.85): VV017649.D (-2473) (-)



#55

m,p-xylene

Concen: 4.829 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV017649.D

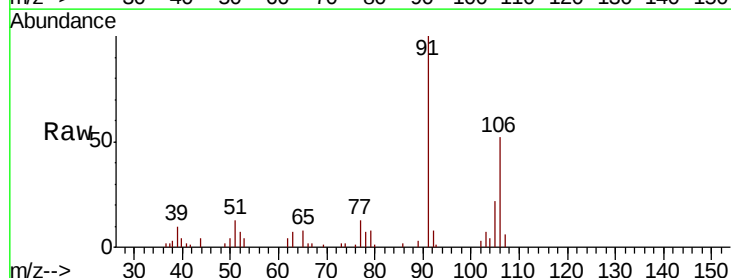
Acq: 24 Jul 2020 15:16

Tgt Ion: 106 Resp: 7967

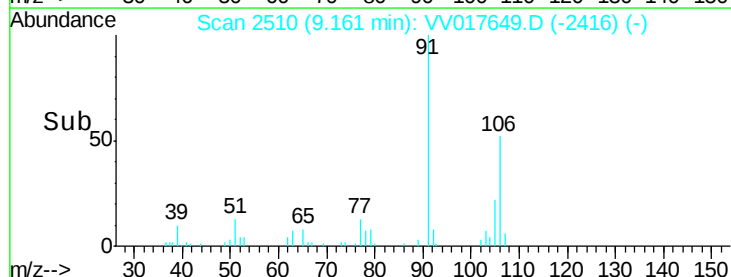
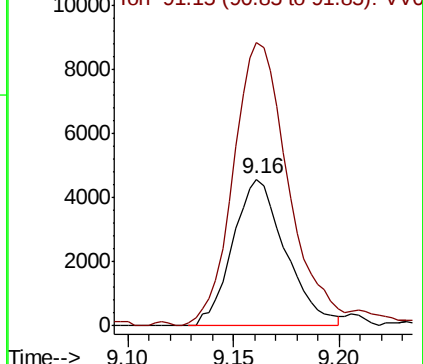
Ion Ratio Lower Upper

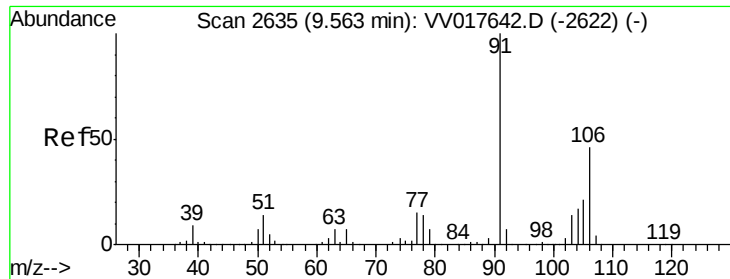
106 100

91 192.8 141.3 262.3



Abundance Ion 106.15 (105.85 to 106.85): VV017649.D (-2510) (-)

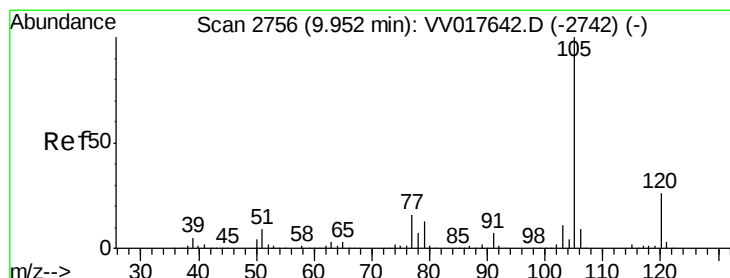
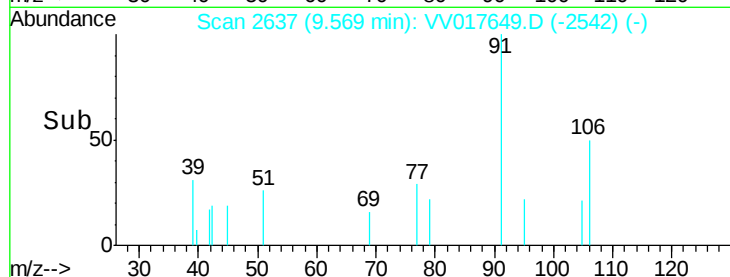
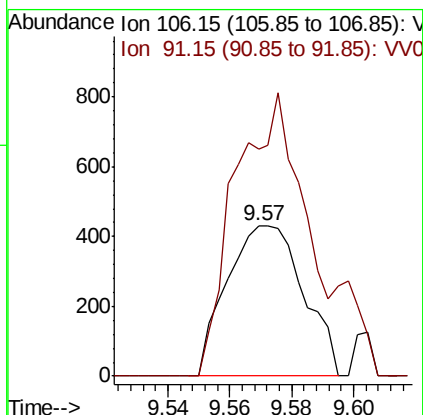
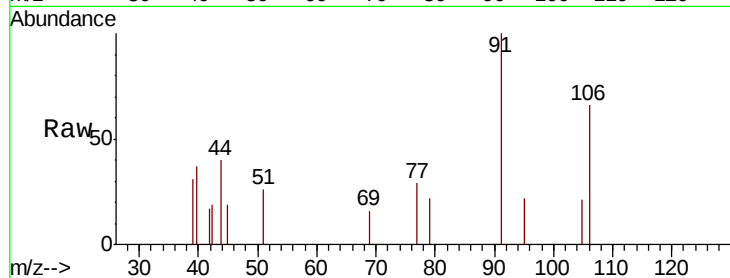




#56
o-xylene
Concen: 0.464 ug/L
RT: 9.57 min Scan# 2637
Delta R.T. 0.01 min
Lab File: VV017649.D
Acq: 24 Jul 2020 15:16

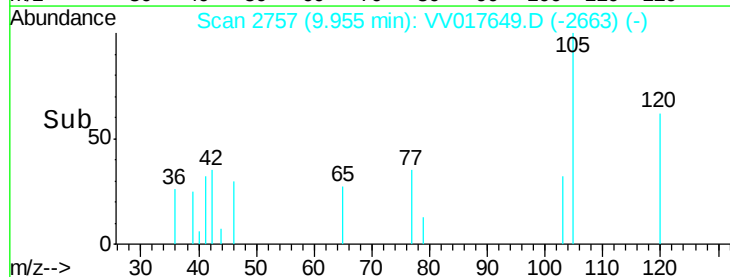
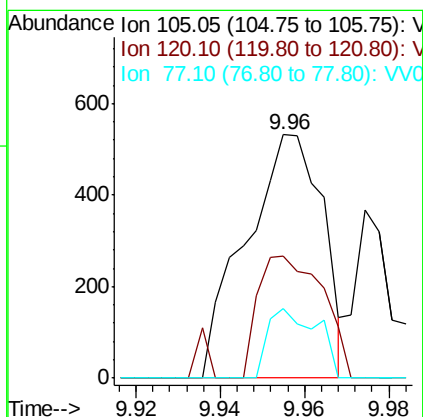
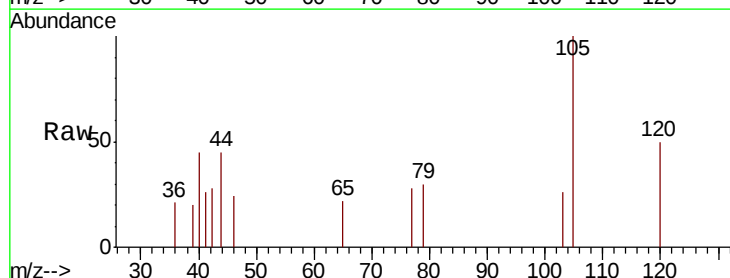
Instrument :
MSVOA_V
ClientSampled :

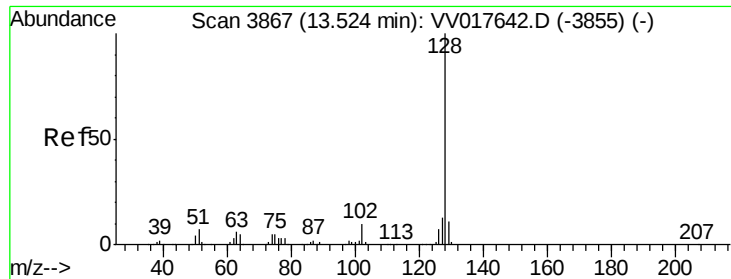
Tot Ion:106 Resp: 743
Ion Ratio Lower Upper
106 100
91 150.9 153.9 285.7#



#58
Isopropylbenzene
Concen: 0.152 ug/L
RT: 9.96 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VV017649.D
Acq: 24 Jul 2020 15:16

Tgt Ion:105 Resp: 673
Ion Ratio Lower Upper
105 100
120 42.3 21.1 31.7#
77 18.1 13.0 19.6





#70

Naphthalene

Concen: 0.562 ug/L

RT: 13.55 min Scan# 3875

Delta R.T. 0.03 min

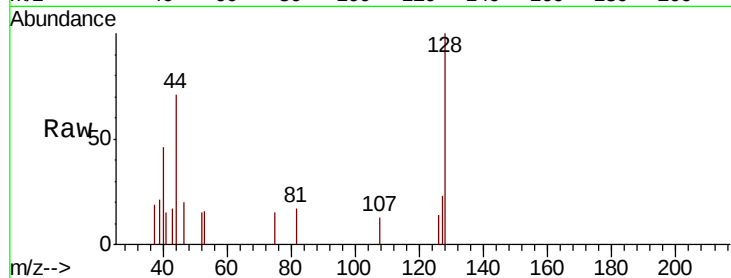
Lab File: VV017649.D

Acq: 24 Jul 2020 15:16

Instrument :

MSVOA_V

ClientSampleId :



Tot Ion:128 Resp: 803

Ion Ratio Lower Upper

128 100

129 5.5 9.1 13.7#

127 27.9 11.0 16.6#

