

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV070220\
 Data File : VV017318.D
 Acq On : 02 Jul 2020 20:13
 Operator : SY/MD
 Sample : L3154-03DL 10X
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jul 03 06:17:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jul 03 06:15:26 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	171721	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	167030	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	85837	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	43026	4.17	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.40%
7) Chloroethane-d5	1.58	69	38247	5.10	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.00%
11) 1,1-Dichloroethene-d2	2.13	63	67995	3.47	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.40%
20) 2-Butanone-d5	3.93	46	100128	38.12	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	76.24%
24) Chloroform-d	4.38	84	95914	4.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.00%
26) 1,2-Dichloroethane-d4	5.06	65	52165	4.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.20%
32) Benzene-d6	5.08	84	172784	3.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	79.80%
36) 1,2-Dichloropropane-d6	6.10	67	50746	3.91	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	78.20%
41) Toluene-d8	7.34	98	162106	3.99	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.80%
45) trans-1,3-Dichloropropene-	7.64	79	20278	3.75	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	75.00%
48) 2-Hexanone-d5	8.11	63	69132	33.58	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	67.16%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	34023	3.95	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	79.00%
65) 1,2-Dichlorobenzene-d4	11.65	152	65604	4.13	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	82.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.35	85	1745	0.127 ug/L	95
5) Vinyl chloride	1.32	62	50483	4.480 ug/L	97
8) Chloroethane	1.60	64	42579	6.837 ug/L #	68
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	835	0.092 ug/L #	23
13) Acetone	2.20	43	2903	2.186 ug/L	81
14) Carbon disulfide	2.32	76	6233	0.252 ug/L #	84
15) Methyl Acetate	2.45	43	1101	0.339 ug/L #	67
16) Methylene chloride	2.52	84	8984	1.018 ug/L	96
18) trans-1,2-Dichloroethene	2.78	96	17550	2.010 ug/L	98
19) 1,1-Dichloroethane	3.21	63	16162	0.824 ug/L	97
22) cis-1,2-Dichloroethene	3.94	96	35649	2.985 ug/L	97
30) Cyclohexane	4.70	56	3868	0.203 ug/L #	90
33) Benzene	5.13	78	30658	0.701 ug/L	100
34) Trichloroethene	5.94	95	3117	0.243 ug/L	91
35) Methylcyclohexane	6.16	83	3532	0.177 ug/L	94
37) 1,2-Dichloropropane	6.10	63	6719	0.621 ug/L #	87
39) cis-1,3-Dichloropropene	7.01	75	2005	0.125 ug/L	94

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 Response via : Initial Calibration

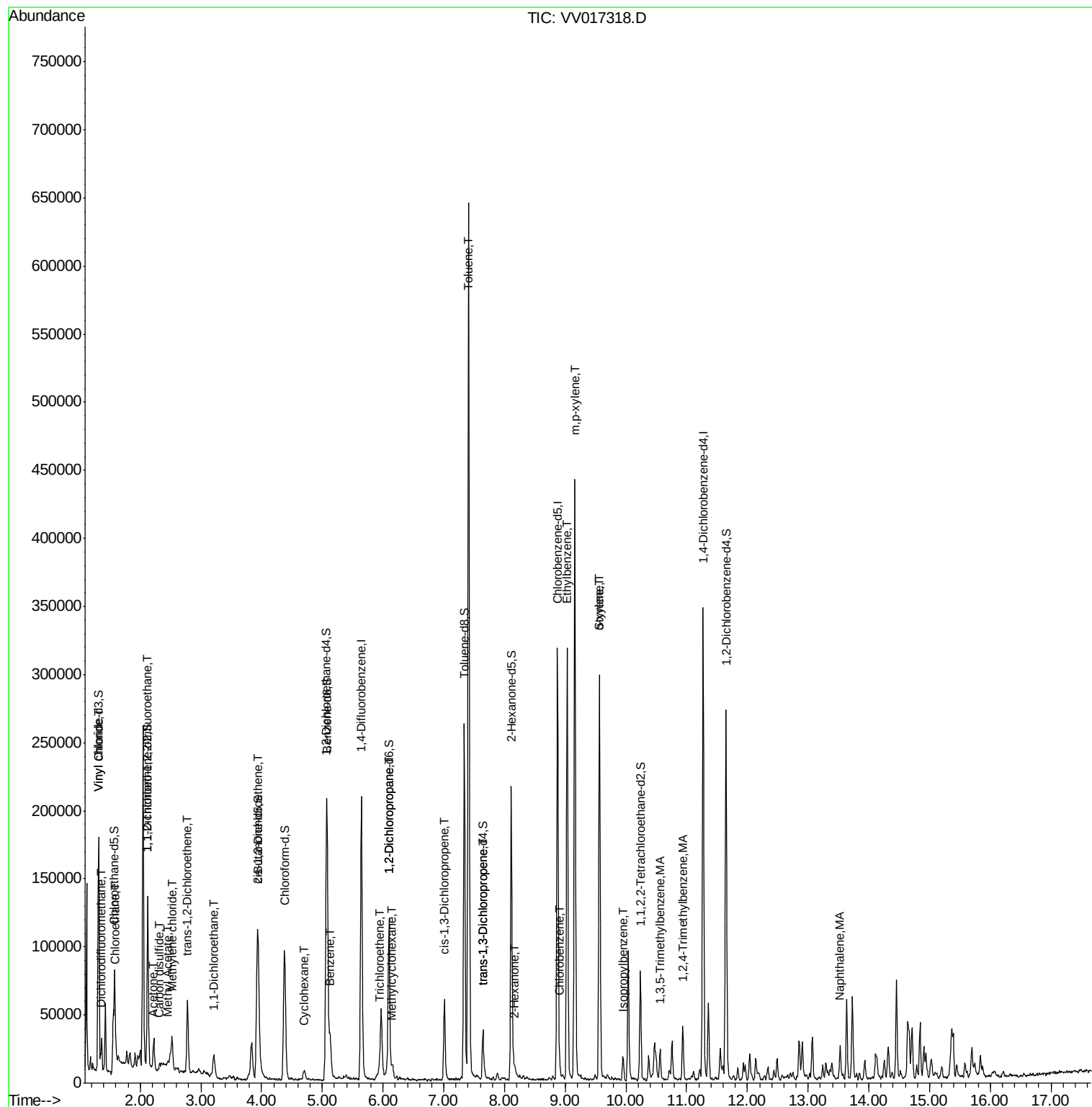
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.41	91	446875	8.787	ug/L	99
43) 1,3,5-Trimethylbenzene	10.56	105	11406	0.251	ug/L	97
44) 1,2,4-Trimethylbenzene	10.94	105	20233	0.437	ug/L	100
46) trans-1,3-Dichloropropene	7.64	75	1220	0.088	ug/L #	43
50) 2-Hexanone	8.17	43	4214	0.947	ug/L #	80
53) Chlorobenzene	8.91	112	3607	0.114	ug/L #	81
54) Ethylbenzene	9.03	91	210787	3.883	ug/L	99
55) m,p-xylene	9.16	106	118173	5.550	ug/L	97
56) o-xylene	9.56	106	75916	3.821	ug/L	99
57) Styrene	9.57	104	6215	0.189	ug/L #	1
58) Isopropylbenzene	9.95	105	9864	0.180	ug/L	97
70) Naphthalene	13.53	128	18024	0.747	ug/L	97

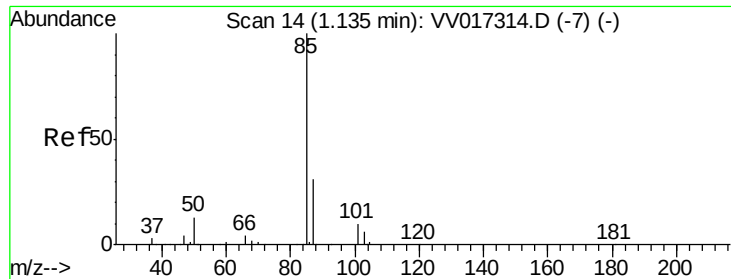
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 0.127 ug/L

RT: 1.35 min Scan# 80

Delta R.T. 0.21 min

Lab File: VV017318.D

Acq: 02 Jul 2020 20:13

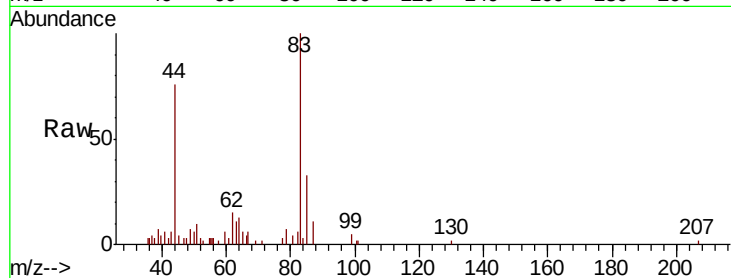
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 1745

Ion Ratio Lower Upper

85 100

87 35.5 26.3 39.5



Abundance Ion 85.00 (84.70 to 85.70): VV017318.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VV017318.D (-1) (-)

2000

1500

1000

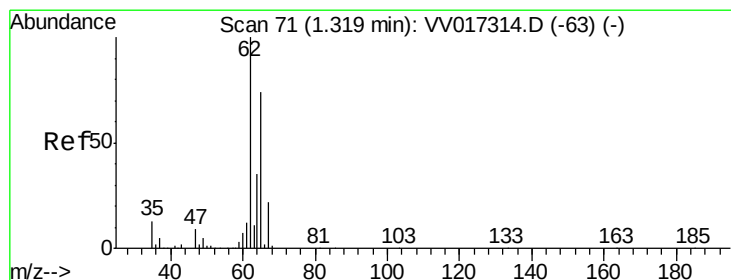
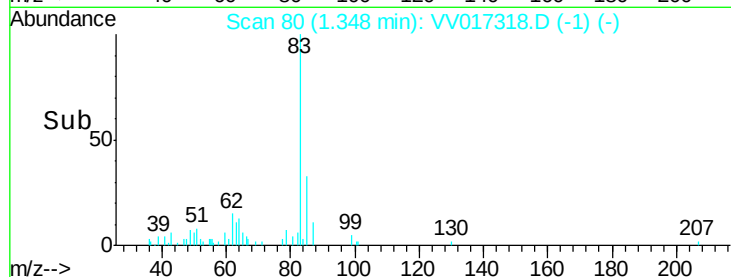
500

0

1.35

1.40

Time-->



#5

Vinyl chloride

Concen: 4.480 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV017318.D

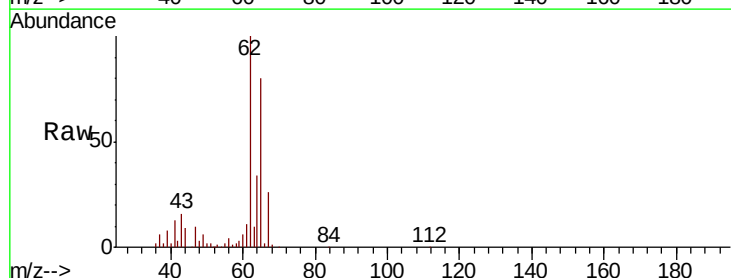
Acq: 02 Jul 2020 20:13

Tgt Ion: 62 Resp: 50483

Ion Ratio Lower Upper

62 100

64 33.8 22.5 41.7



Abundance Ion 62.00 (61.70 to 62.70): VV017318.D (-1) (-)

Ion 64.10 (63.80 to 64.80): VV017318.D (-1) (-)

50000

40000

30000

20000

10000

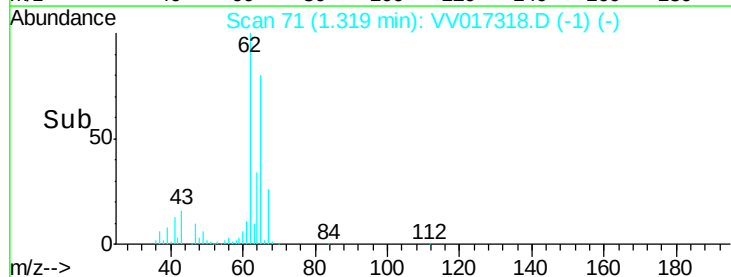
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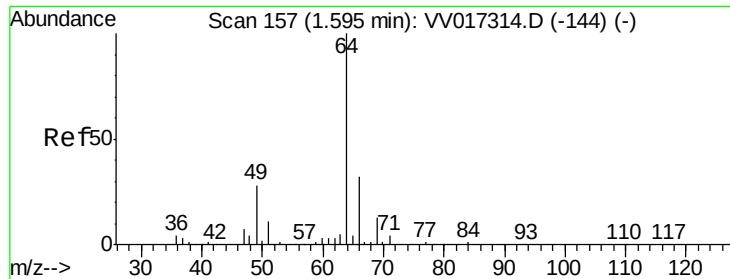
1.30

1.35

1.40

Time-->





#8

Chloroethane

Concen: 6.837 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV017318.D

Acq: 02 Jul 2020 20:13

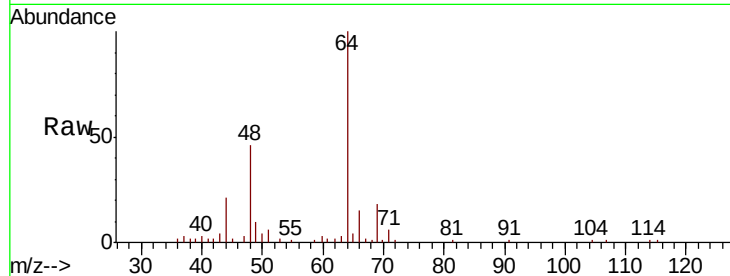
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 64 Resp: 42579

Ion Ratio Lower Upper

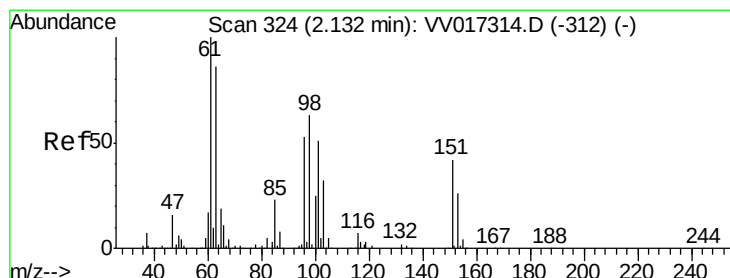
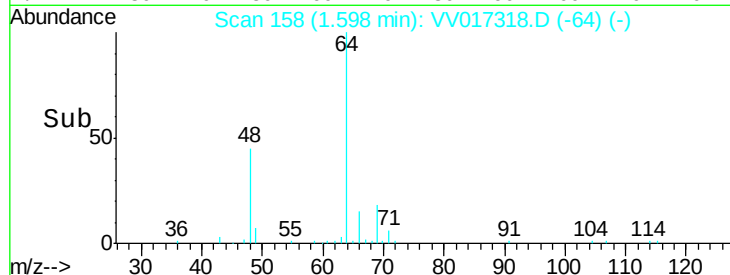
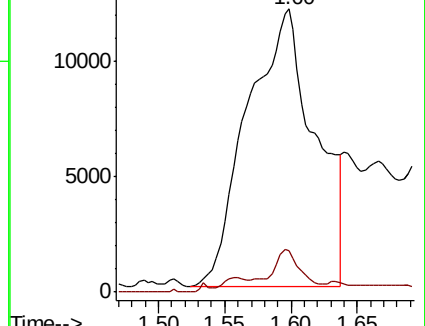
64 100

66 14.7 22.8 42.4#



Abundance Ion 64.10 (63.80 to 64.80): VV017318.D (-64) (-)

Ion 66.05 (65.75 to 66.75): VV017318.D (-64) (-)



#10

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

Concen: 0.092 ug/L

RT: 2.13 min Scan# 323

Delta R.T. -0.00 min

Lab File: VV017318.D

Acq: 02 Jul 2020 20:13

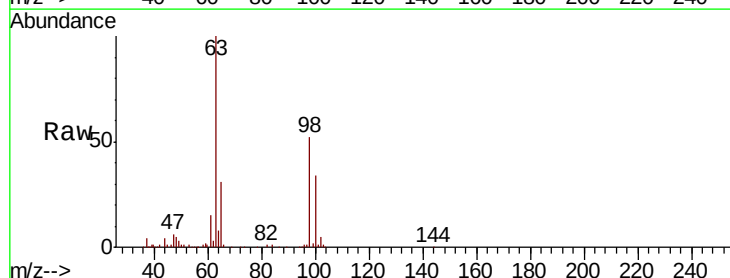
Tgt Ion:101 Resp: 835

Ion Ratio Lower Upper

101 100

85 10.5 35.4 53.2#

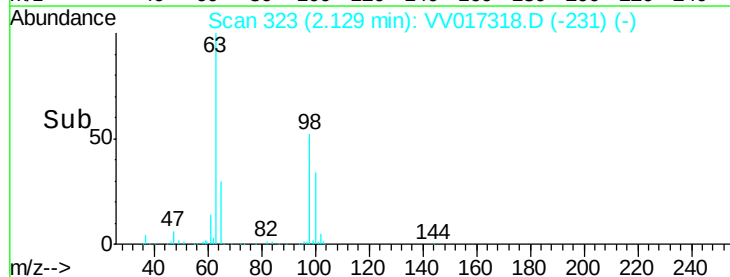
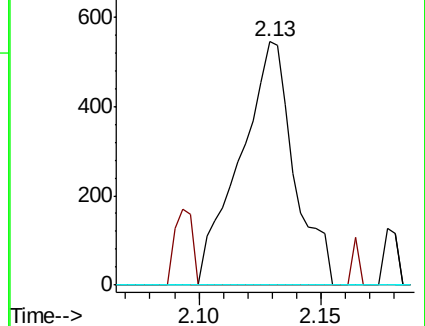
151 0.0 63.9 95.9#

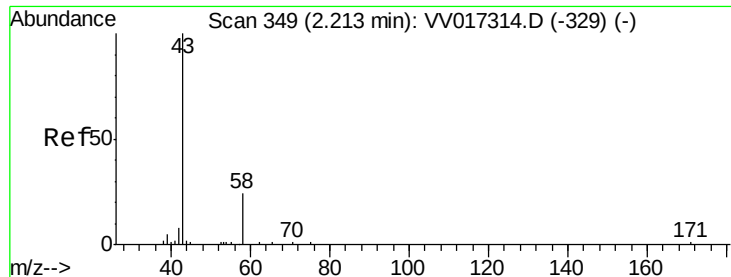


Abundance Ion 101.00 (100.70 to 101.70): VV017318.D (-231) (-)

Ion 85.00 (84.70 to 85.70): VV017318.D (-231) (-)

Ion 151.00 (150.70 to 151.70): VV017318.D (-231) (-)





#13

Acetone

Concen: 2.186 ug/L

RT: 2.20 min Scan# 344

Delta R.T. -0.02 min

Lab File: VV017318.D

Acq: 02 Jul 2020 20:13

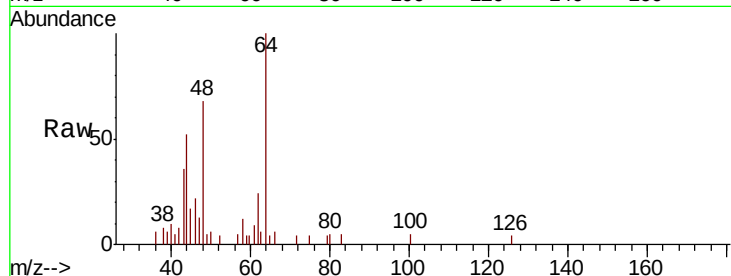
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 2903

Ion Ratio Lower Upper

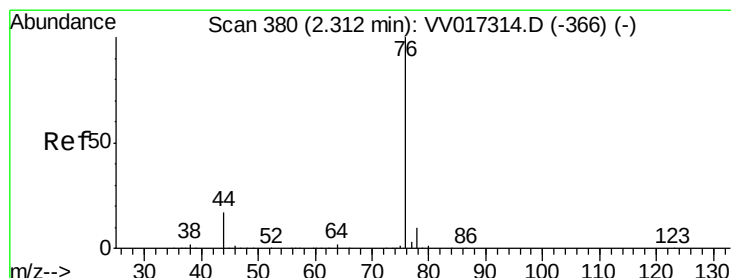
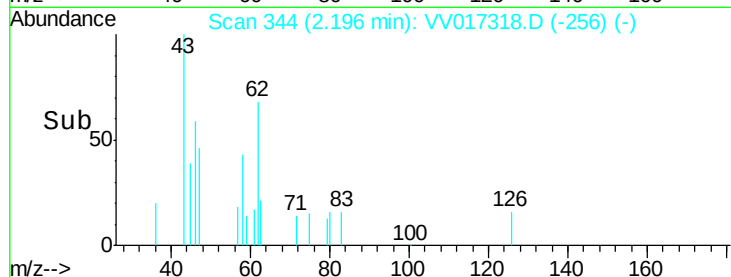
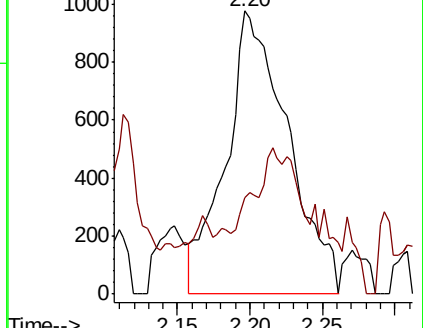
43 100

58 19.0 0.0 58.4



Abundance Ion 43.05 (42.75 to 43.75): VV017314.D (-329) (-)

Ion 58.05 (57.75 to 58.75): VV017314.D (-329) (-)



#14

Carbon disulfide

Concen: 0.252 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV017318.D

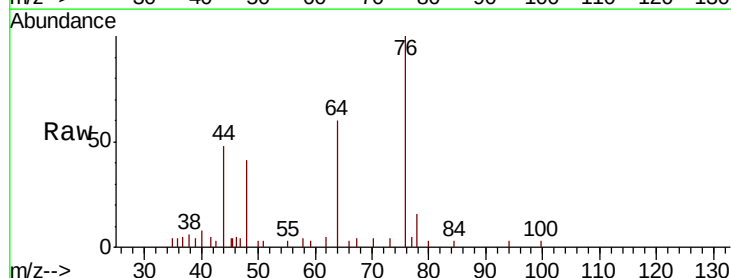
Acq: 02 Jul 2020 20:13

Tgt Ion: 76 Resp: 6233

Ion Ratio Lower Upper

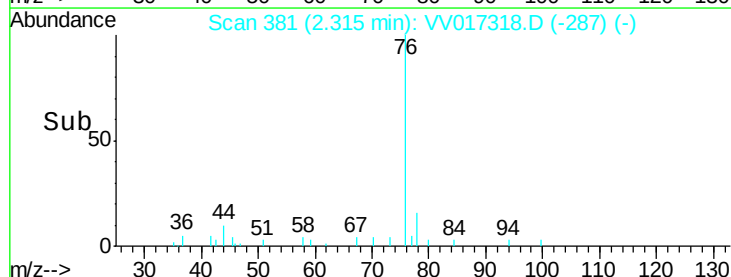
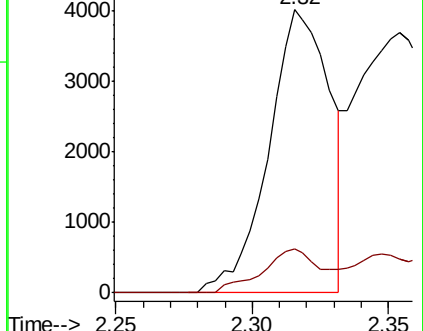
76 100

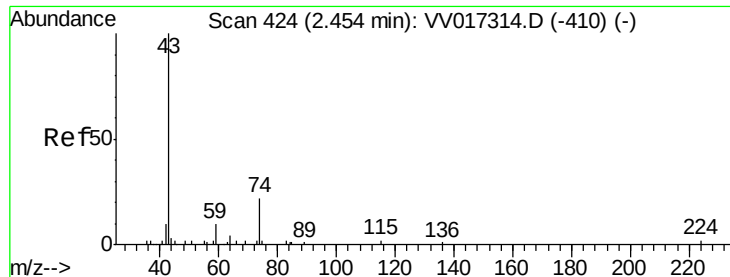
78 15.5 7.7 11.5#



Abundance Ion 76.05 (75.75 to 76.75): VV017314.D (-366) (-)

Ion 78.00 (77.70 to 78.70): VV017314.D (-366) (-)

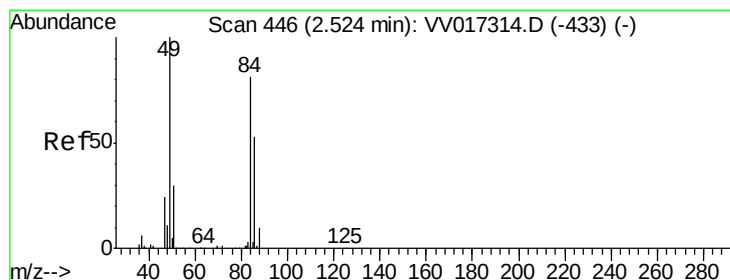
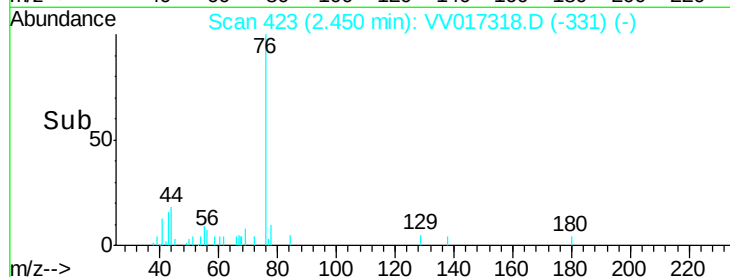
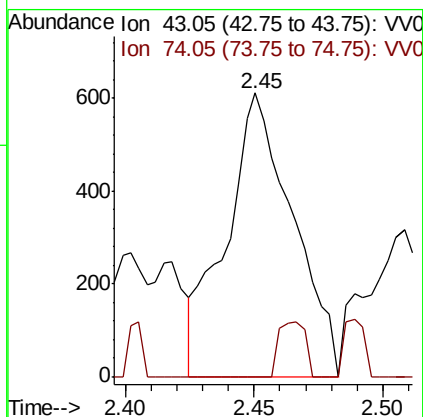
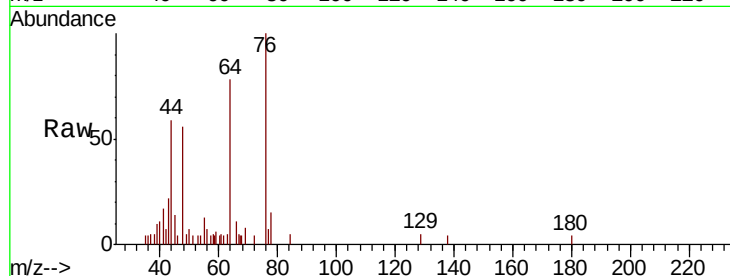




#15
Methyl Acetate
Concen: 0.339 ug/L
RT: 2.45 min Scan# 423
Delta R.T. -0.00 min
Lab File: VV017318.D
Acq: 02 Jul 2020 20:13

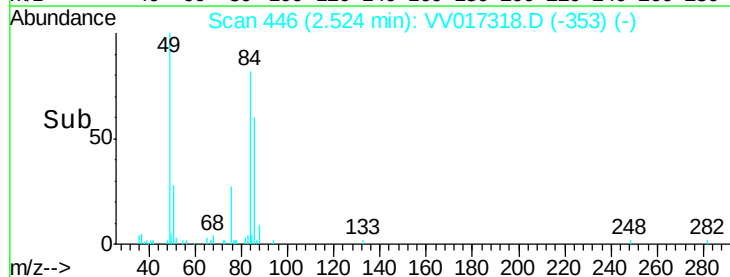
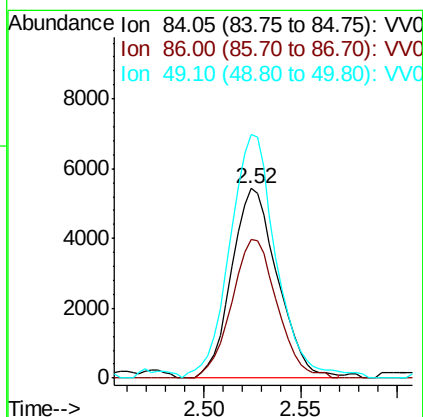
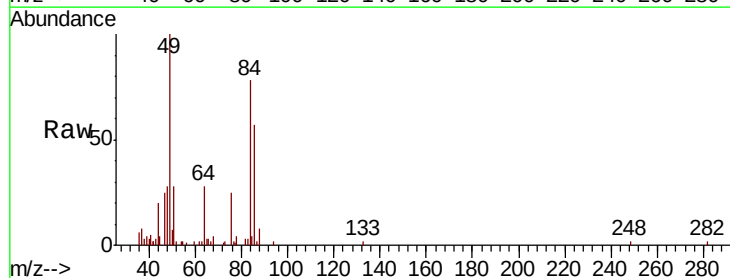
Instrument :
MSVOA_V
ClientSampled :

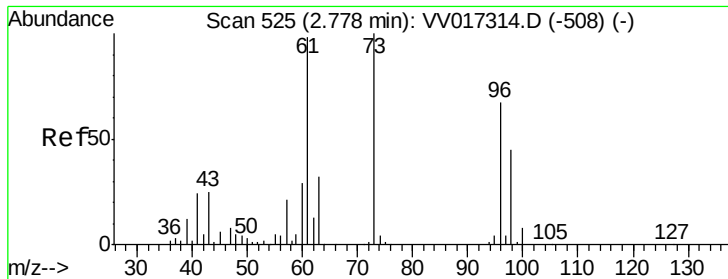
Tot Ion: 43 Resp: 1101
Ion Ratio Lower Upper
43 100
74 7.6 19.1 28.7#



#16
Methylene chloride
Concen: 1.018 ug/L
RT: 2.52 min Scan# 446
Delta R.T. -0.00 min
Lab File: VV017318.D
Acq: 02 Jul 2020 20:13

Tgt Ion: 84 Resp: 8984
Ion Ratio Lower Upper
84 100
86 73.1 45.8 85.0
49 128.6 89.6 166.4

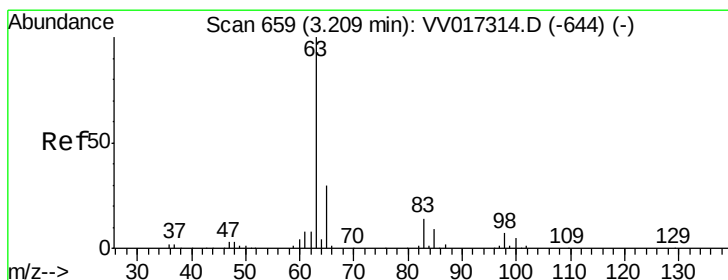
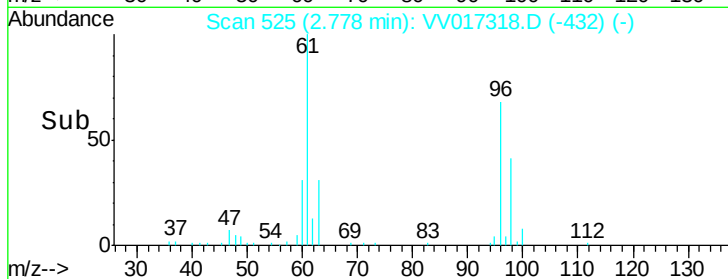
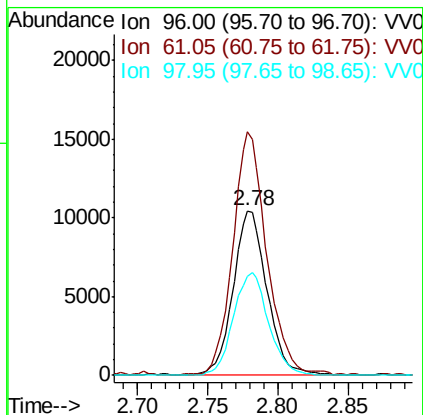
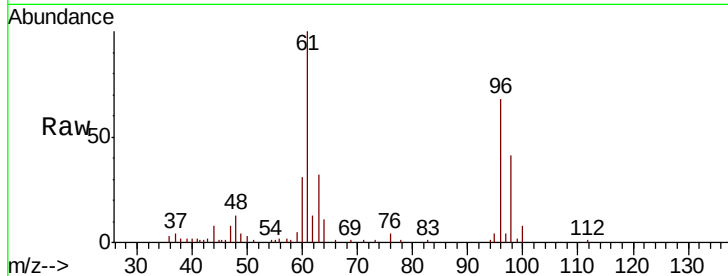




#18
trans-1,2-Dichloroethene
Concen: 2.010 ug/L
RT: 2.78 min Scan# 525
Delta R.T. -0.00 min
Lab File: VV017318.D
Acq: 02 Jul 2020 20:13

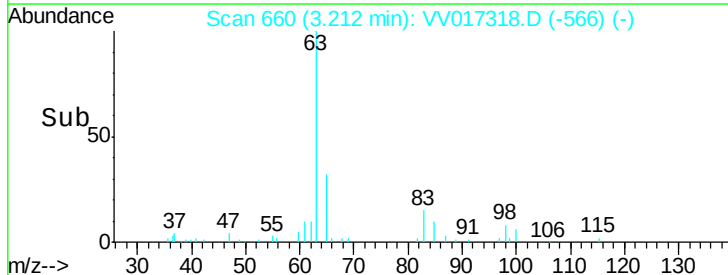
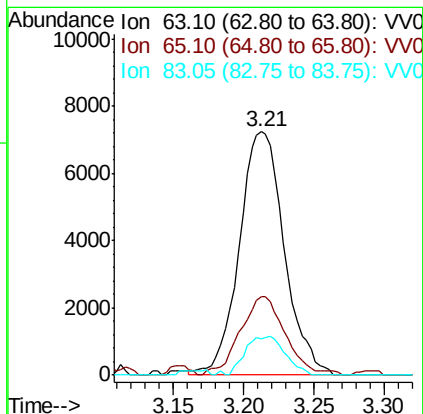
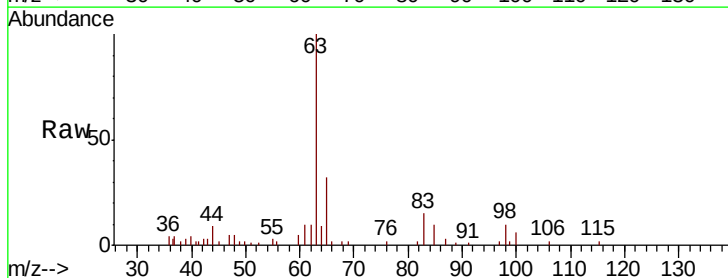
Instrument :
MSVOA_V
ClientSampled :

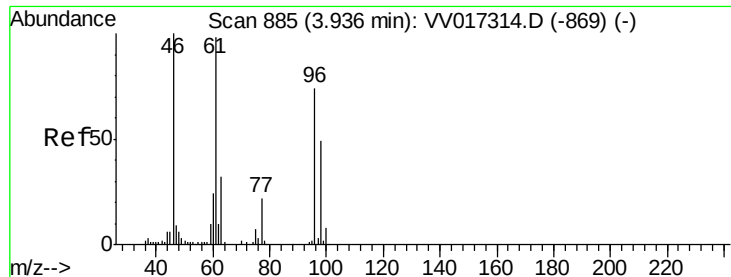
Tot Ion: 96 Resp: 17550
Ion Ratio Lower Upper
96 100
61 147.7 102.3 189.9
98 59.8 44.7 82.9



#19
1,1-Dichloroethane
Concen: 0.824 ug/L
RT: 3.21 min Scan# 660
Delta R.T. 0.00 min
Lab File: VV017318.D
Acq: 02 Jul 2020 20:13

Tgt Ion: 63 Resp: 16162
Ion Ratio Lower Upper
63 100
65 32.4 21.8 40.4
83 15.1 9.7 17.9



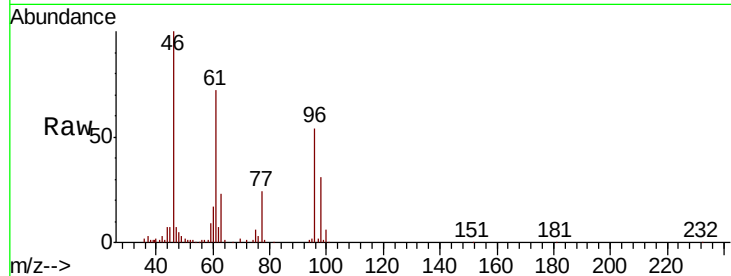


#22

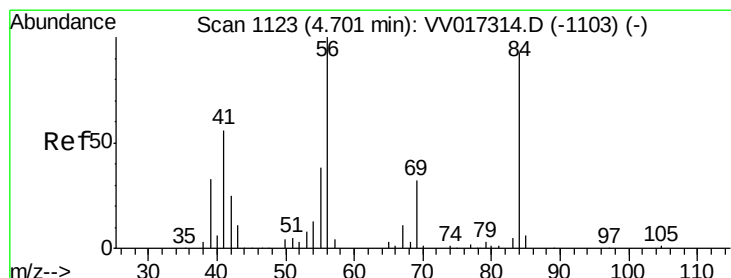
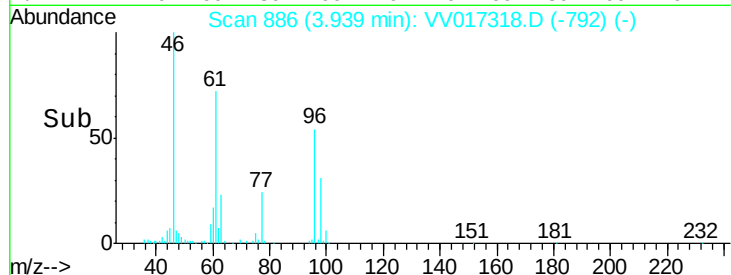
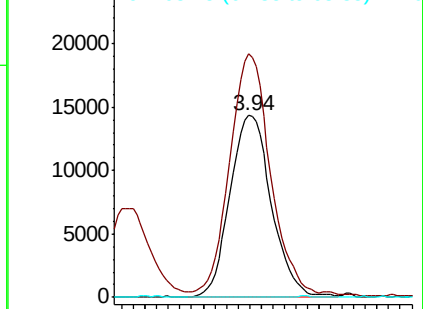
cis-1,2-Dichloroethene
 Concen: 2.985 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.00 min
 Lab File: VV017318.D
 Acq: 02 Jul 2020 20:13

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 96 Resp: 35649
 Ion Ratio Lower Upper
 96 100
 61 134.0 91.0 169.0
 68 0.0 0.0 0.0



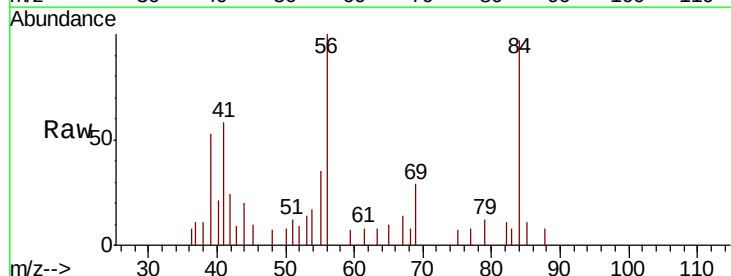
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



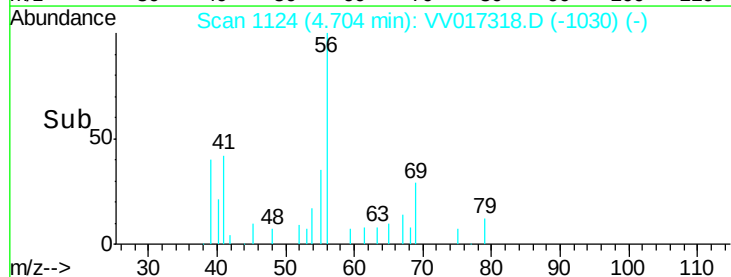
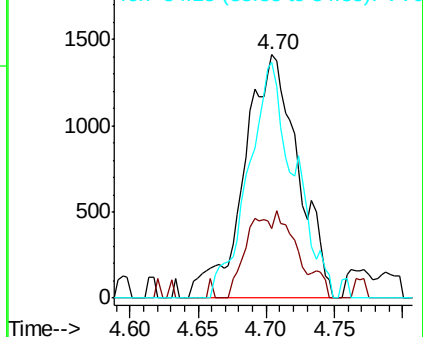
#30

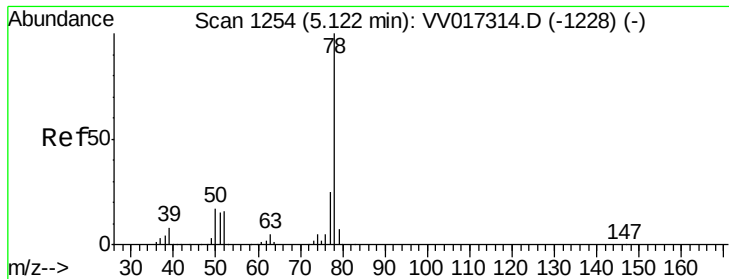
Cyclohexane
 Concen: 0.203 ug/L
 RT: 4.70 min Scan# 1124
 Delta R.T. 0.00 min
 Lab File: VV017318.D
 Acq: 02 Jul 2020 20:13

Tgt Ion: 56 Resp: 3868
 Ion Ratio Lower Upper
 56 100
 69 16.9 24.4 36.6#
 84 83.3 69.9 104.9



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

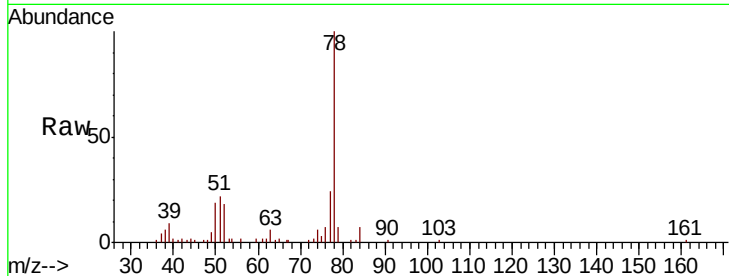




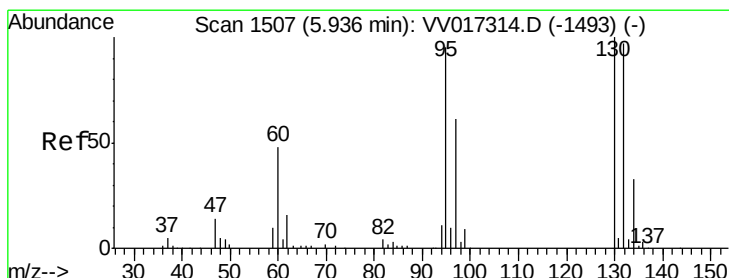
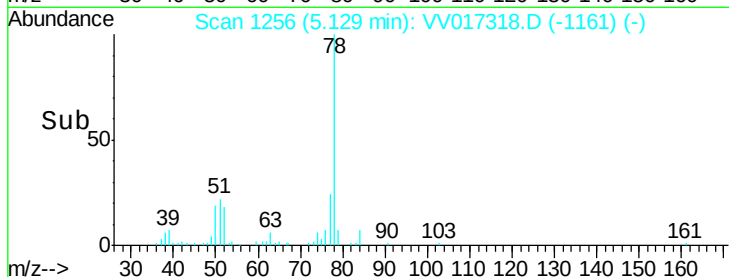
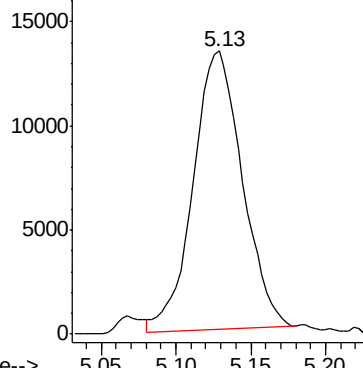
#33
Benzene
Concen: 0.701 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. 0.01 min
Lab File: VV017318.D
Acq: 02 Jul 2020 20:13

Instrument :
MSVOA_V
ClientSampled :

Tgt Ion: 78 Resp: 30658



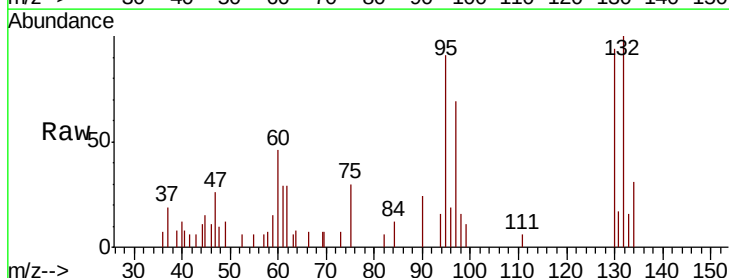
Abundance Ion 78.10 (77.80 to 78.80): VV0



#34
Trichloroethene
Concen: 0.243 ug/L
RT: 5.94 min Scan# 1509
Delta R.T. 0.01 min
Lab File: VV017318.D
Acq: 02 Jul 2020 20:13

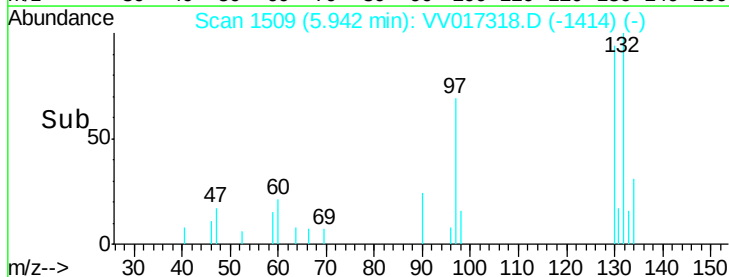
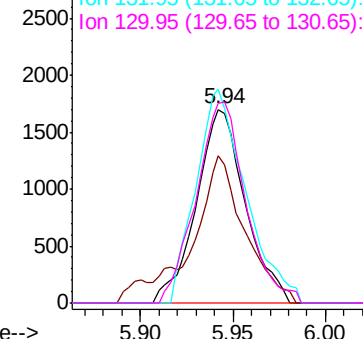
Tgt Ion: 95 Resp: 3117

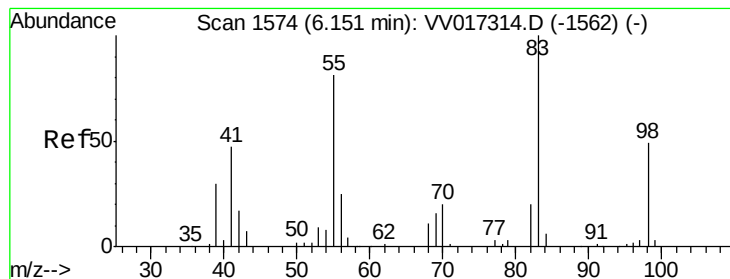
Ion	Ratio	Lower	Upper
95	100		
97	75.9	45.3	84.1
132	110.3	68.8	127.8
130	103.2	70.2	130.4



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

Methylcyclohexane

Concen: 0.177 ug/L

RT: 6.16 min Scan# 1576

Delta R.T. 0.01 min

Lab File: VV017318.D

Acq: 02 Jul 2020 20:13

Instrument :
MSVOA_V
ClientSampleId :

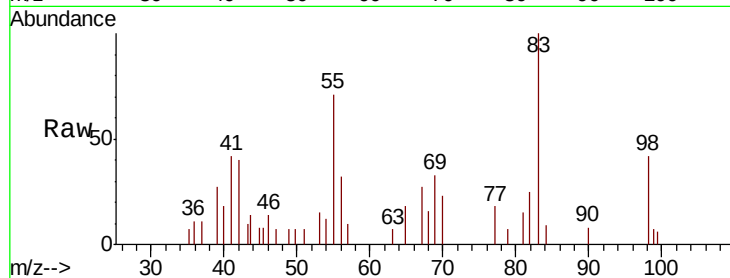
Tot Ion: 83 Resp: 3532

Ion Ratio Lower Upper

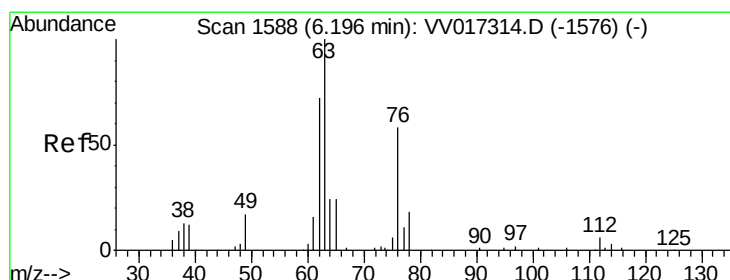
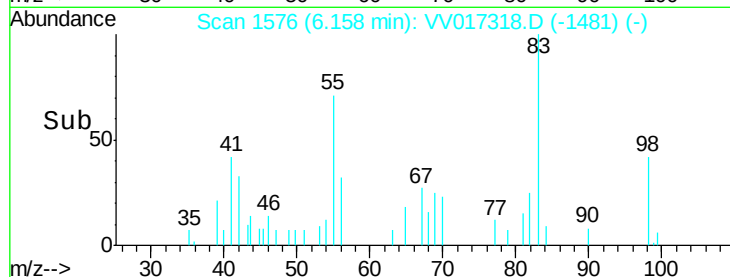
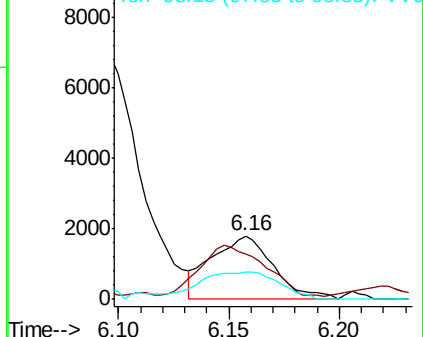
83 100

55 83.0 63.6 95.4

98 55.3 38.8 58.2



Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0



#37

1,2-Dichloropropane

Concen: 0.621 ug/L

RT: 6.10 min Scan# 1557

Delta R.T. -0.10 min

Lab File: VV017318.D

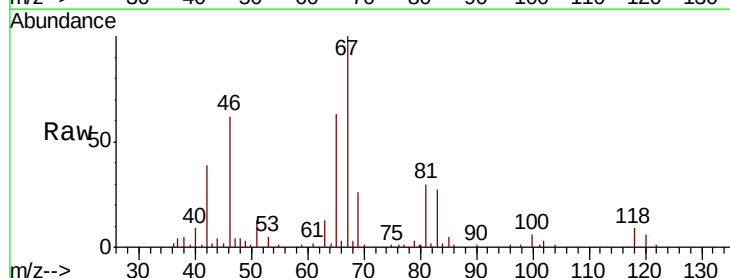
Acq: 02 Jul 2020 20:13

Tgt Ion: 63 Resp: 6719

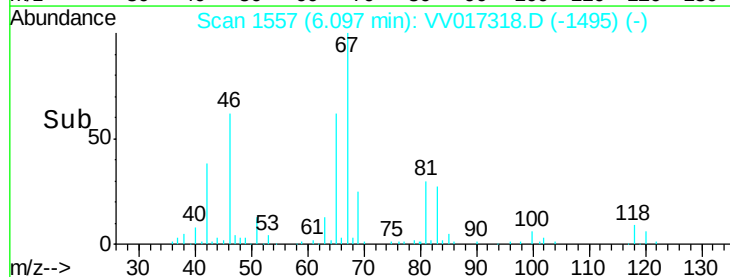
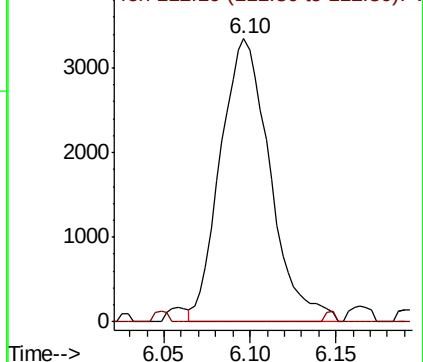
Ion Ratio Lower Upper

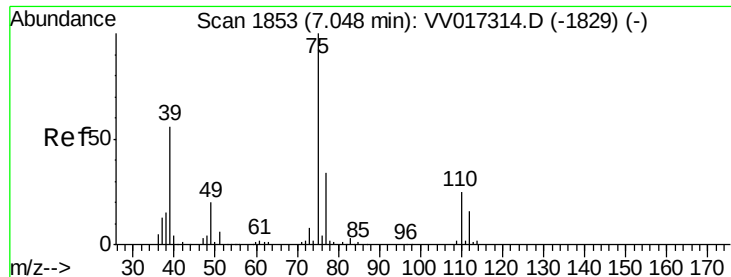
63 100

112 1.0 4.4 6.6#



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 112.10 (111.80 to 112.80): V





#39

cis-1,3-Dichloropropene

Concen: 0.125 ug/L

RT: 7.01 min Scan# 1842

Delta R.T. -0.04 min

Lab File: VV017318.D

Acq: 02 Jul 2020 20:13

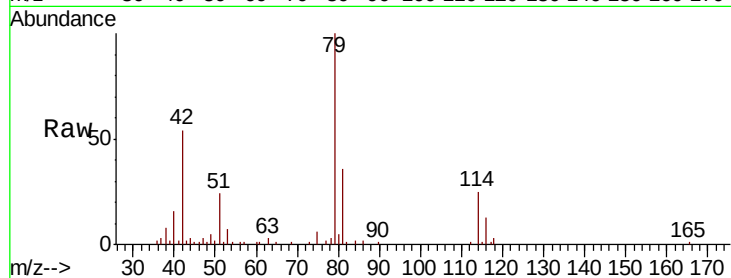
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 75 Resp: 2005

Ion Ratio Lower Upper

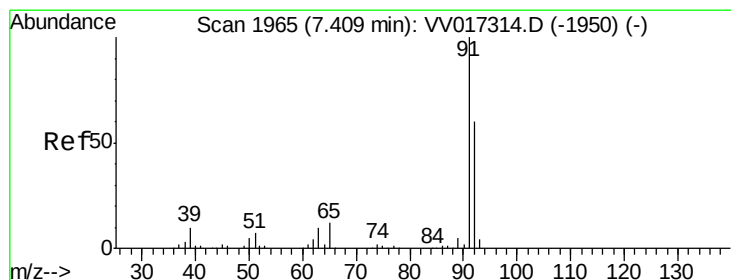
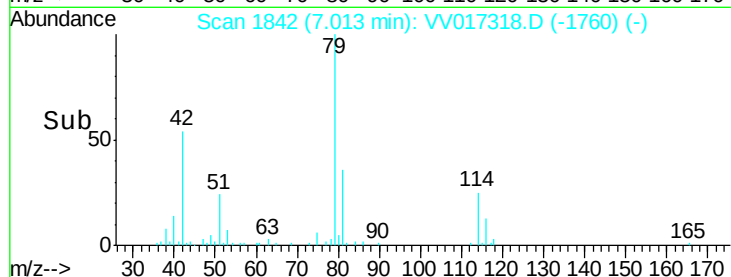
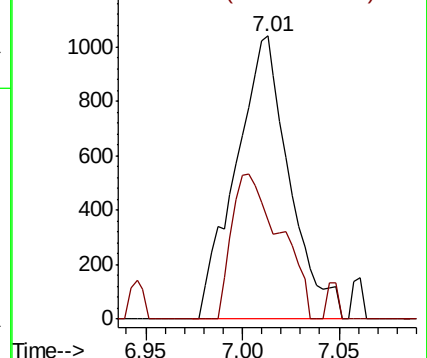
75 100

77 35.2 22.3 41.5



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#42

Toluene

Concen: 8.787 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV017318.D

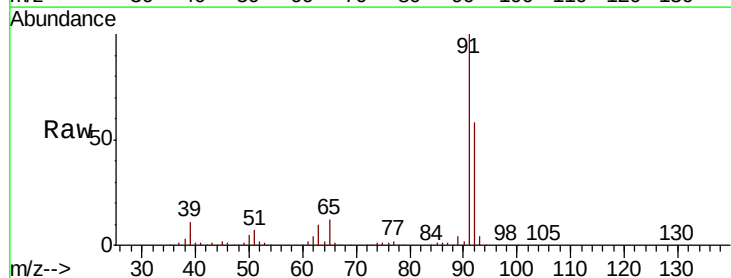
Acq: 02 Jul 2020 20:13

Tgt Ion: 91 Resp: 446875

Ion Ratio Lower Upper

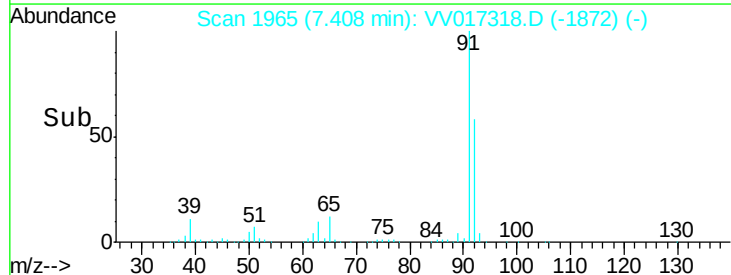
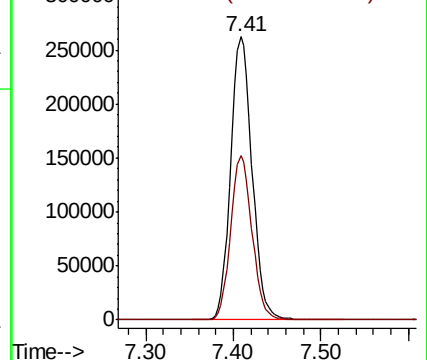
91 100

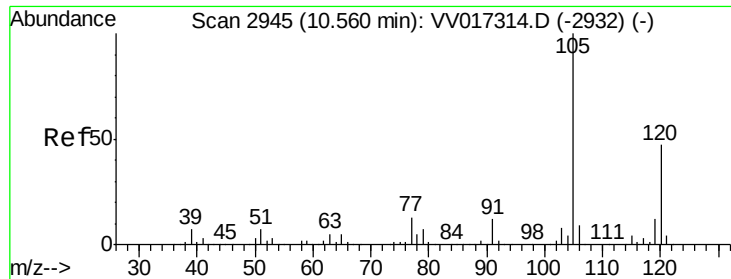
92 58.0 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

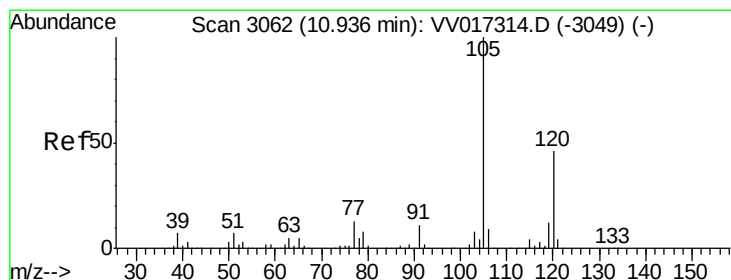
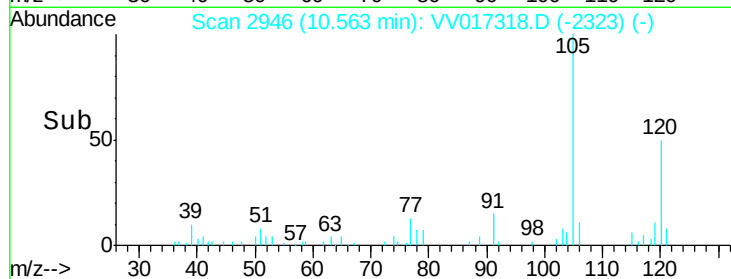
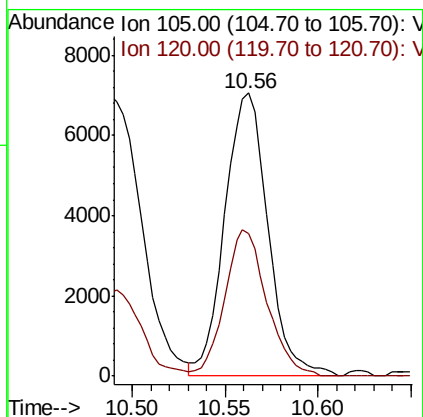
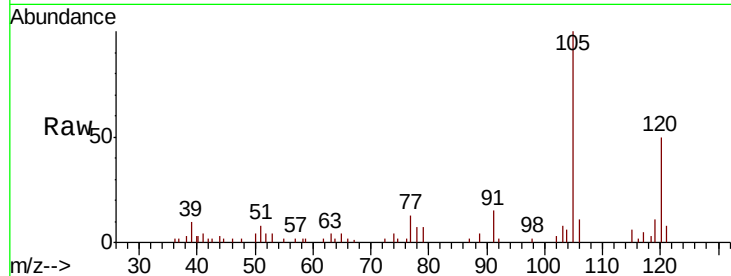




#43
 1,3,5-Trimethylbenzene
 Concen: 0.251 ug/L
 RT: 10.56 min Scan# 2946
 Delta R.T. 0.00 min
 Lab File: VV017318.D
 Acq: 02 Jul 2020 20:13

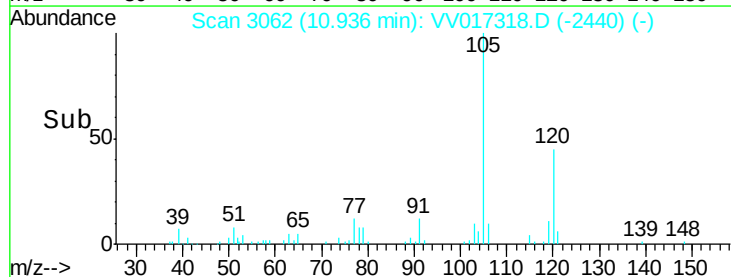
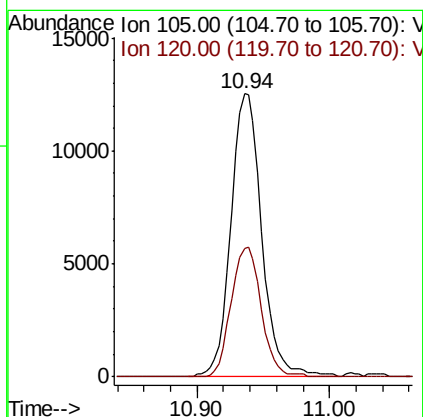
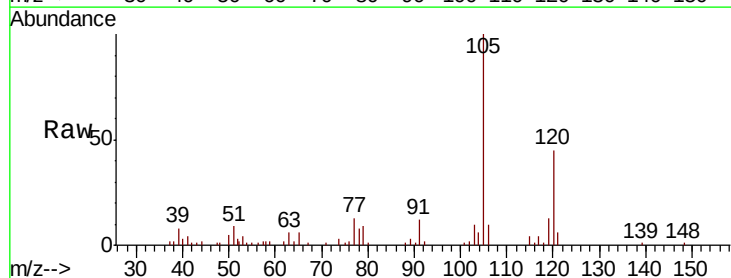
Instrument :
 MSVOA_V
 ClientSampled :

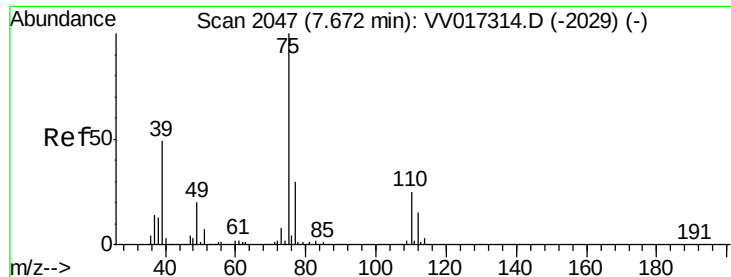
Tot Ion:105 Resp: 11406
 Ion Ratio Lower Upper
 105 100
 120 50.5 38.6 57.8



#44
 1,2,4-Trimethylbenzene
 Concen: 0.437 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. -0.00 min
 Lab File: VV017318.D
 Acq: 02 Jul 2020 20:13

Tgt Ion:105 Resp: 20233
 Ion Ratio Lower Upper
 105 100
 120 44.5 35.8 53.8





#46

trans-1,3-Dichloropropene

Concen: 0.088 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. -0.03 min

Lab File: VV017318.D

Acq: 02 Jul 2020 20:13

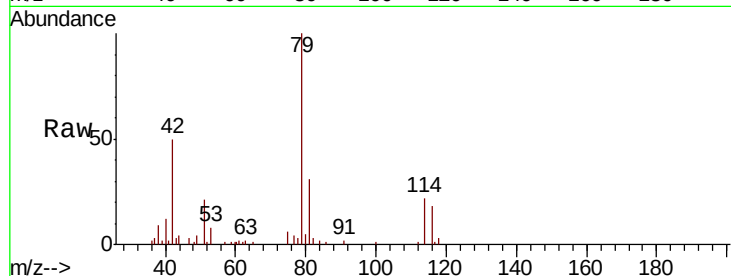
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 75 Resp: 1220

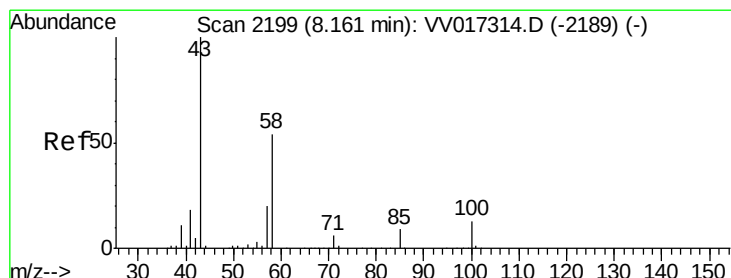
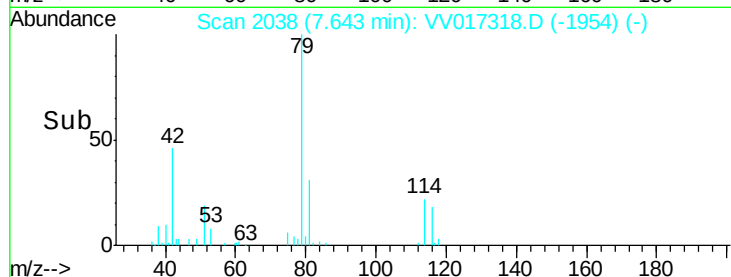
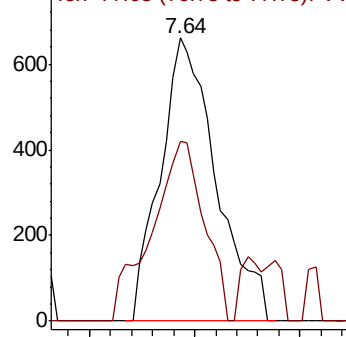
Ion Ratio Lower Upper

75 100

77 63.2 22.3 41.3#



Abundance Ion 75.05 (74.75 to 75.75): VV0
Ion 77.05 (76.75 to 77.75): VV0



#50

2-Hexanone

Concen: 0.947 ug/L

RT: 8.17 min Scan# 2202

Delta R.T. 0.01 min

Lab File: VV017318.D

Acq: 02 Jul 2020 20:13

Tgt Ion: 43 Resp: 4214

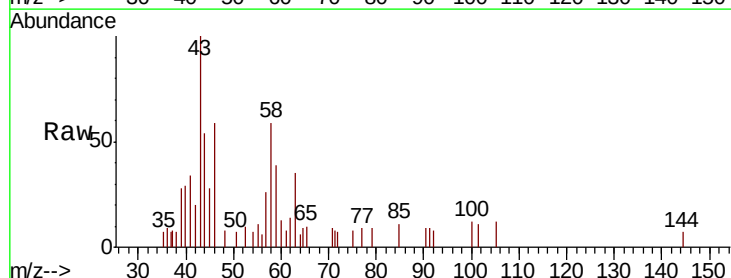
Ion Ratio Lower Upper

43 100

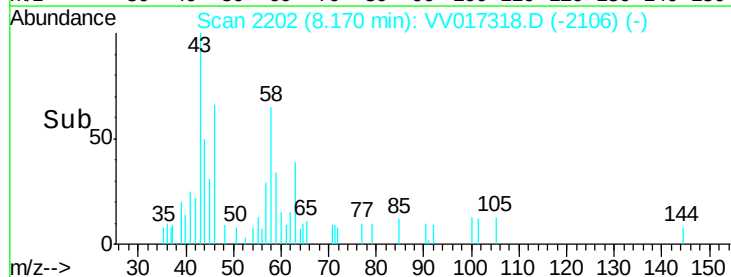
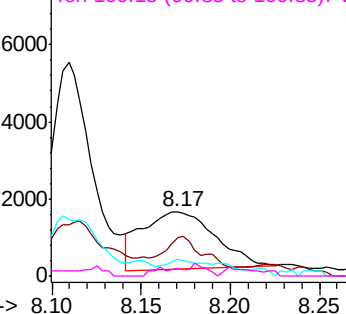
58 40.9 41.6 62.4#

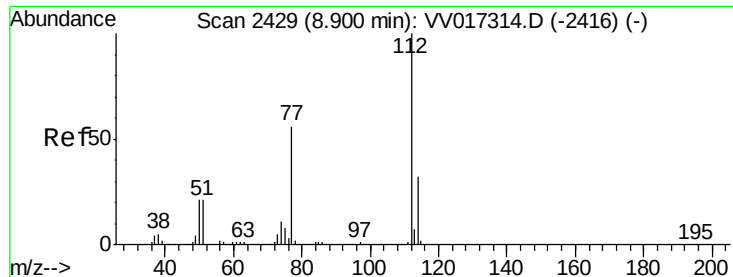
57 4.7 15.4 23.0#

100 6.5 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

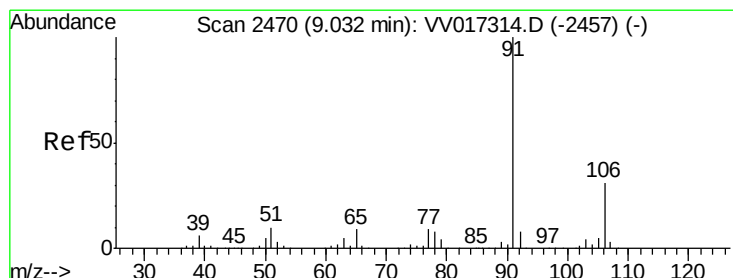
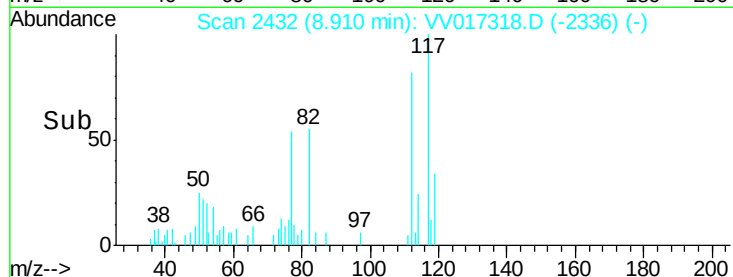
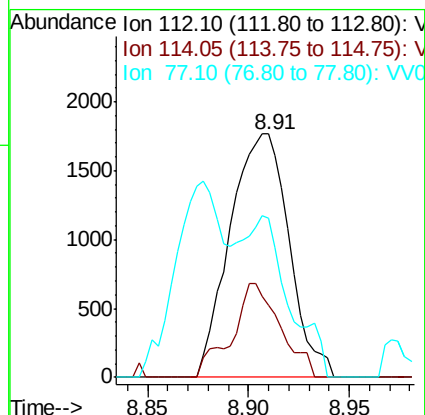
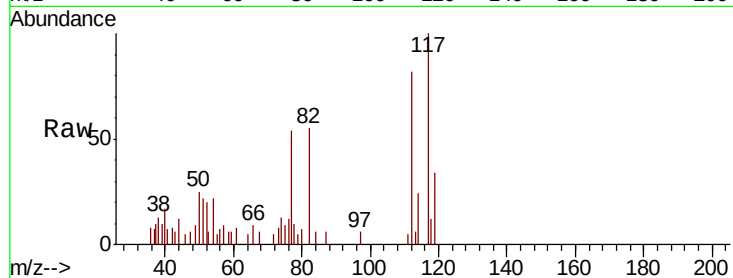




#53
Chlorobenzene
Concen: 0.114 ug/L
RT: 8.91 min Scan# 2432
Delta R.T. 0.01 min
Lab File: VV017318.D
Acq: 02 Jul 2020 20:13

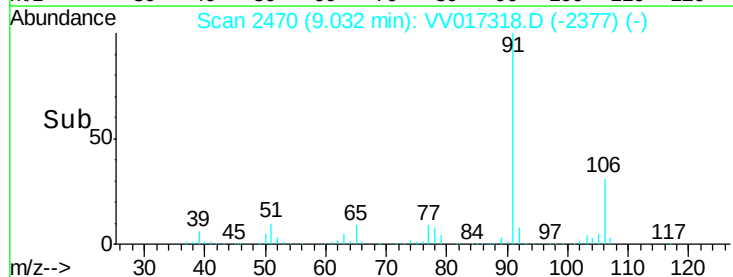
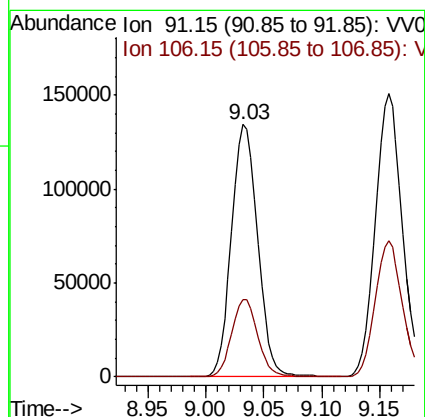
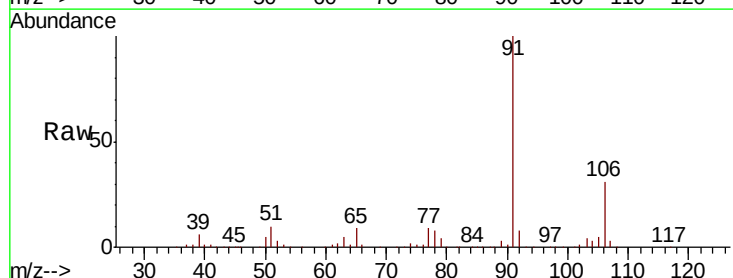
Instrument :
MSVOA_V
ClientSampleId :

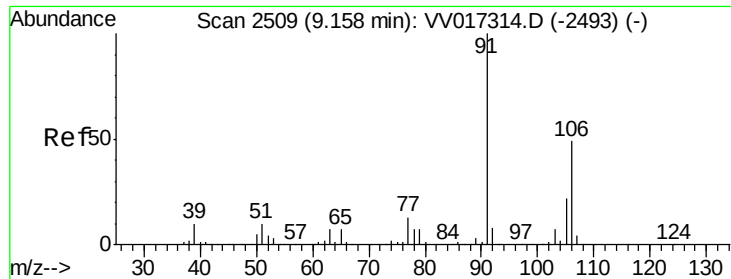
Tot Ion:112 Resp: 3607
Ion Ratio Lower Upper
112 100
114 29.6 22.0 41.0
77 77.9 46.0 69.0#



#54
Ethylbenzene
Concen: 3.883 ug/L
RT: 9.03 min Scan# 2470
Delta R.T. -0.00 min
Lab File: VV017318.D
Acq: 02 Jul 2020 20:13

Tgt Ion: 91 Resp: 210787
Ion Ratio Lower Upper
91 100
106 30.8 21.1 39.1





#55

m,p-xylene

Concen: 5.550 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV017318.D

Acq: 02 Jul 2020 20:13

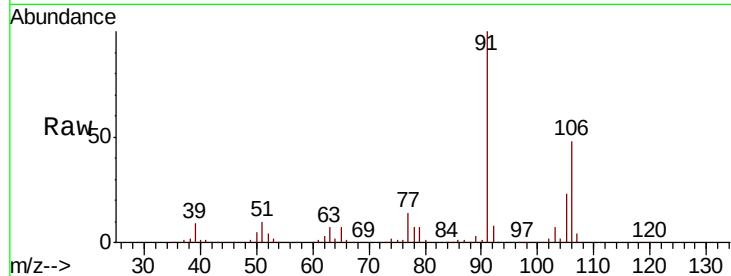
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 118173

Ion Ratio Lower Upper

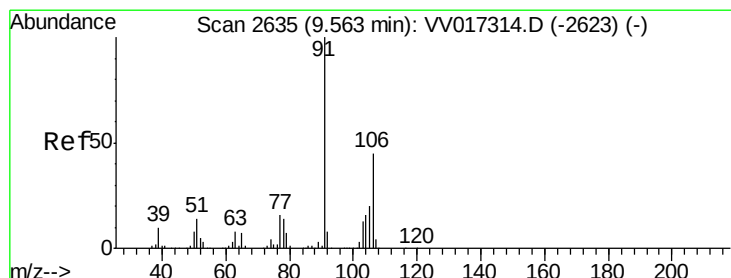
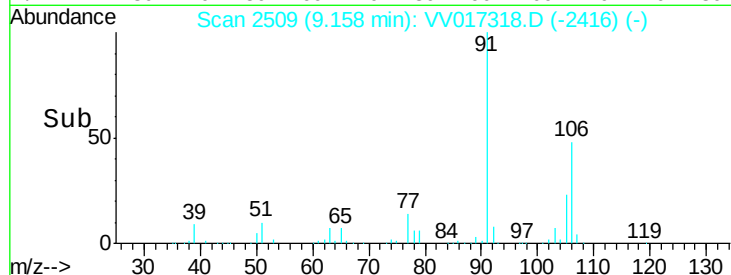
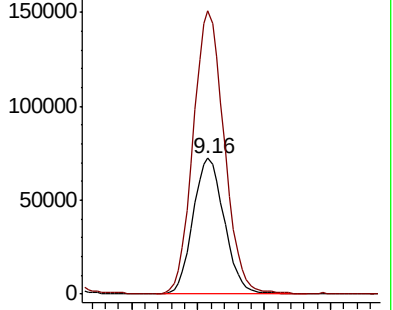
106 100

91 208.5 142.7 264.9



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#56

o-xylene

Concen: 3.821 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. -0.00 min

Lab File: VV017318.D

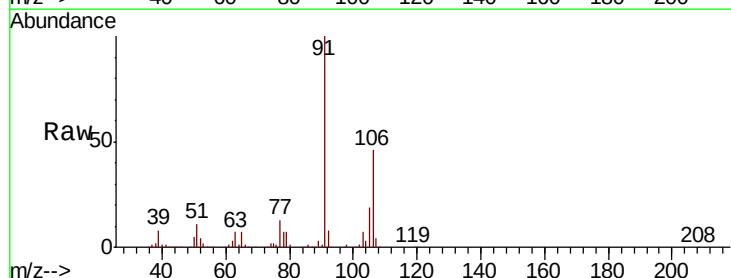
Acq: 02 Jul 2020 20:13

Tgt Ion:106 Resp: 75916

Ion Ratio Lower Upper

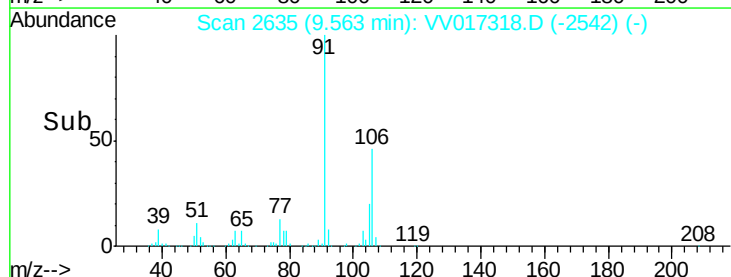
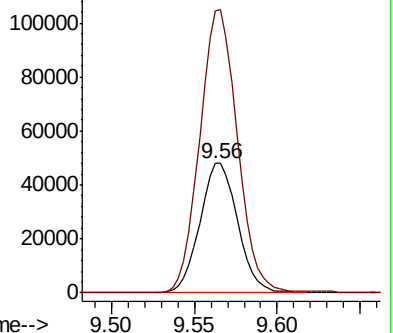
106 100

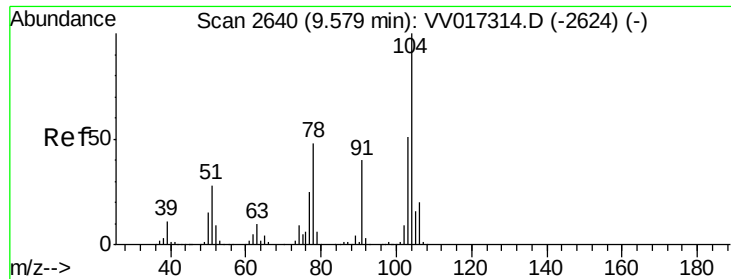
91 217.0 153.6 285.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#57

Stvrene

Concen: 0.189 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. -0.01 min

Lab File: VV017318.D

Acq: 02 Jul 2020 20:13

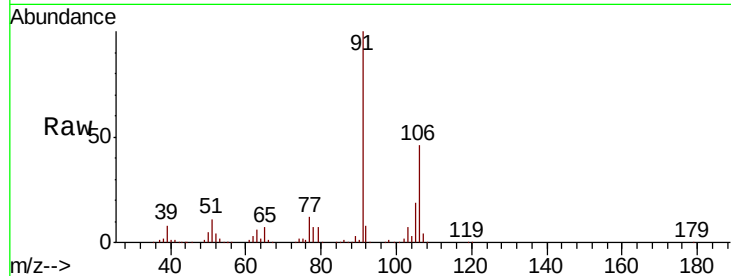
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:104 Resp: 6215

Ion Ratio Lower Upper

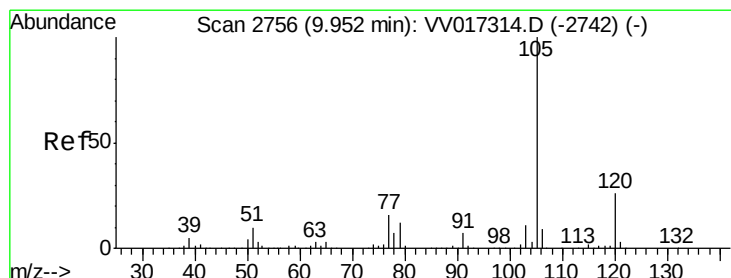
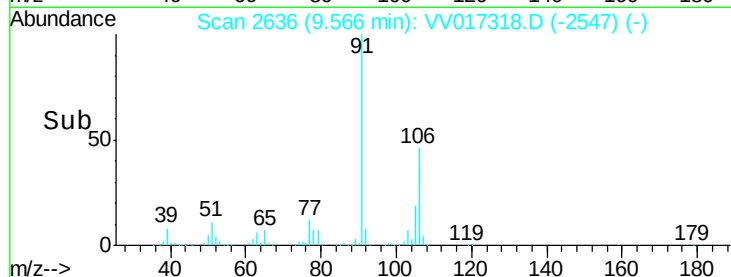
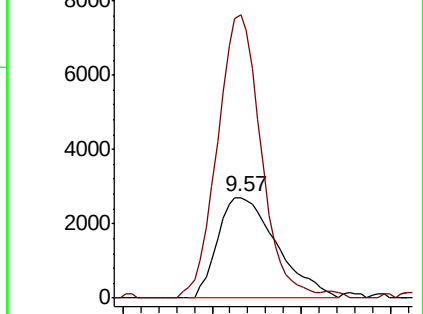
104 100

78 282.1 33.9 62.9#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0



#58

Isopropylbenzene

Concen: 0.180 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV017318.D

Acq: 02 Jul 2020 20:13

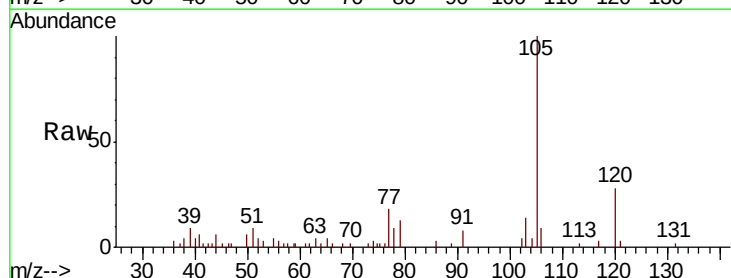
Tgt Ion:105 Resp: 9864

Ion Ratio Lower Upper

105 100

120 25.4 21.2 31.8

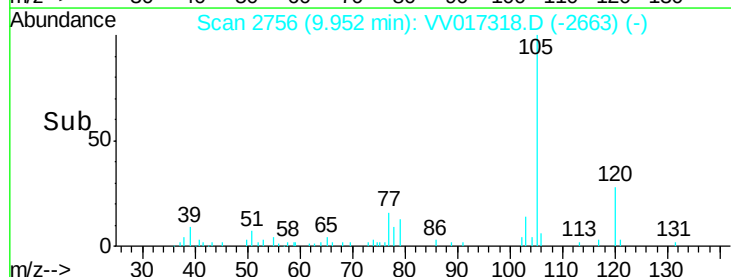
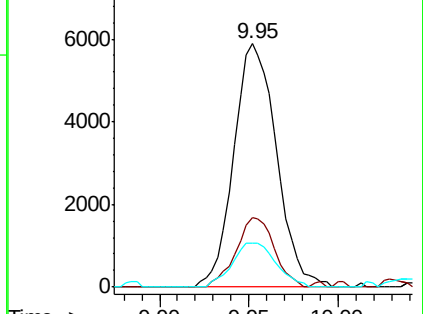
77 18.5 13.0 19.4

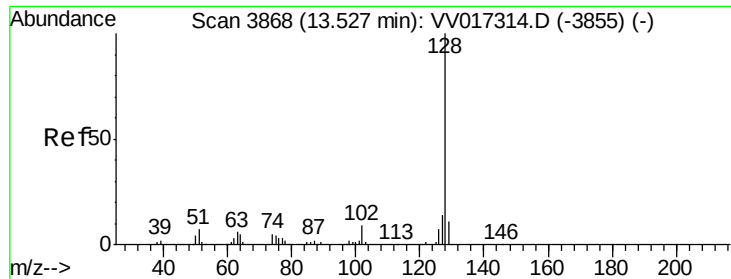


Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): VV0





#70

Naphthalene

Concen: 0.747 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. -0.00 min

Lab File: VV017318.D

Acq: 02 Jul 2020 20:13

Instrument :

MSVOA_V

ClientSampleId :

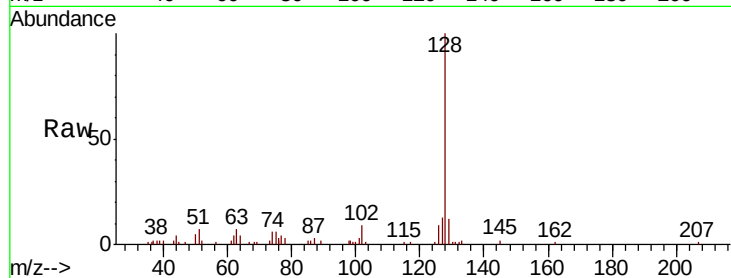
Tot Ion:128 Resp: 18024

Ion Ratio Lower Upper

128 100

129 12.6 8.8 13.2

127 13.5 10.5 15.7



Abundance Ion 128.00 (127.70 to 128.70): V

15000 Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V

