

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV070220\
 Data File : VV017323.D
 Acq On : 02 Jul 2020 22:13
 Operator : SY/MD
 Sample : L3154-08
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jul 03 06:19:25 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	166467	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	159707	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	81899	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	41421	4.15	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	83.00%
7) Chloroethane-d5	1.58	69	33290	4.58	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.60%
11) 1,1-Dichloroethene-d2	2.13	63	65719	3.46	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.20%
20) 2-Butanone-d5	3.93	46	99460	39.06	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	78.12%
24) Chloroform-d	4.38	84	93021	4.35	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	87.00%
26) 1,2-Dichloroethane-d4	5.06	65	52692	4.65	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.00%
32) Benzene-d6	5.08	84	172242	4.16	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	83.20%
36) 1,2-Dichloropropane-d6	6.10	67	48437	3.90	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	78.00%
41) Toluene-d8	7.34	98	162193	4.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	83.40%
45) trans-1,3-Dichloropropene-	7.65	79	18844	3.65	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	73.00%
48) 2-Hexanone-d5	8.11	63	72235	36.70	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	73.40%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	34858	4.23	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	84.60%
65) 1,2-Dichlorobenzene-d4	11.65	152	64067	4.23	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	84.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	123847	11.338	ug/L	100
8) Chloroethane	1.58	64	71710	11.879	ug/L #	52
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	669	0.076	ug/L #	23
12) 1,1-Dichloroethene	2.13	96	816	0.102	ug/L #	1
13) Acetone	2.15	43	7800	6.060	ug/L	61
14) Carbon disulfide	2.32	76	2197	0.092	ug/L #	82
15) Methyl Acetate	2.51	43	62448	19.843	ug/L #	52
16) Methylene chloride	2.52	84	1324	0.155	ug/L #	1
17) Methyl tert-butyl Ether	2.79	73	1001322	49.915	ug/L	96
19) 1,1-Dichloroethane	3.21	63	13590	0.714	ug/L	95
22) cis-1,2-Dichloroethene	3.94	96	15547	1.343	ug/L	99
30) Cyclohexane	4.70	56	30796	1.691	ug/L	96
33) Benzene	5.13	78	190325	4.550	ug/L	100
34) Trichloroethene	5.94	95	2340	0.191	ug/L	90
35) Methylcyclohexane	6.15	83	2096	0.110	ug/L #	70
39) cis-1,3-Dichloropropene	7.01	75	1782	0.116	ug/L #	26
42) Toluene	7.41	91	9209	0.189	ug/L	99

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Jul 03 06:15:26 2020
Response via : Initial Calibration

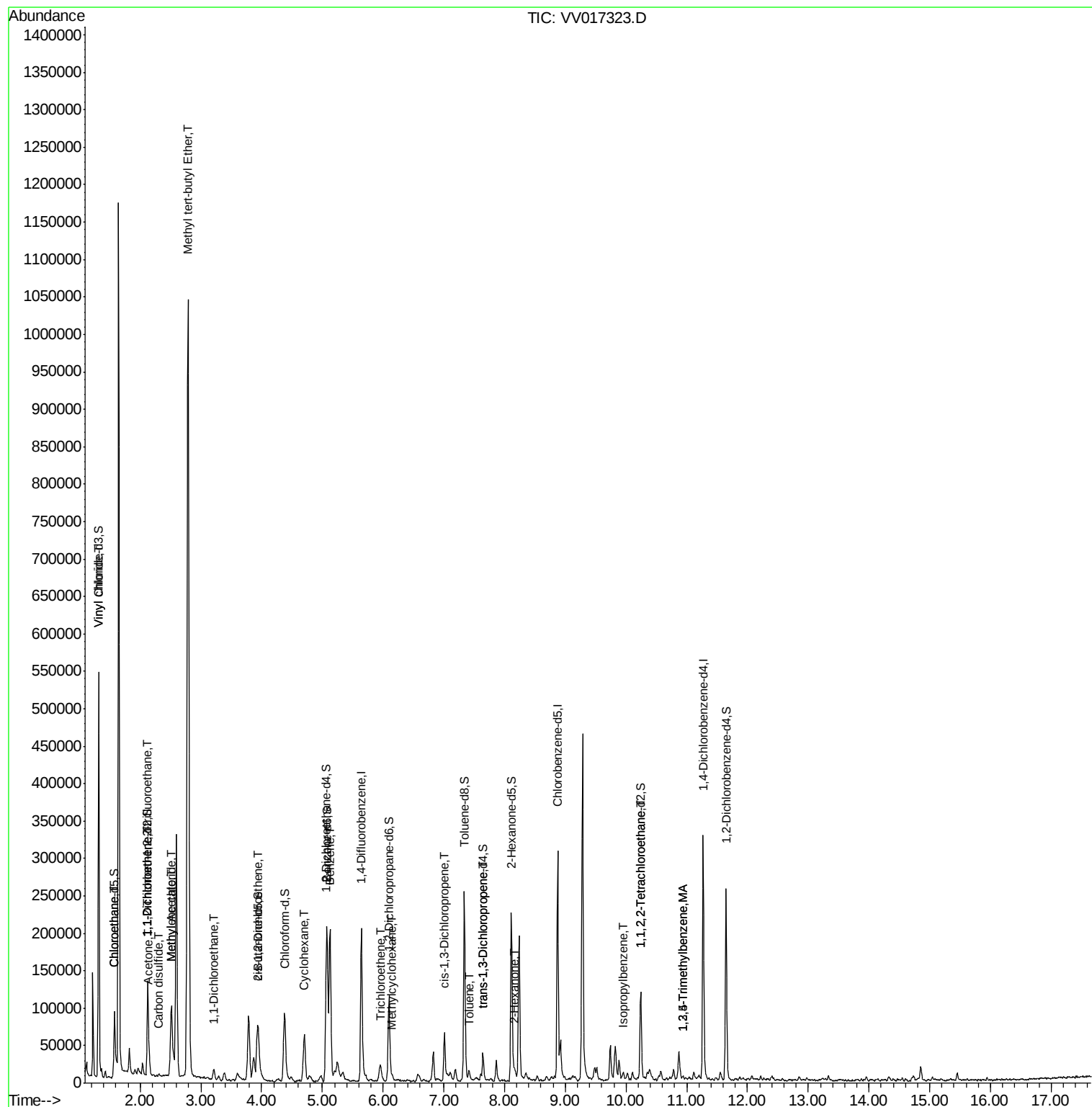
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
43) 1,3,5-Trimethylbenzene	10.94	105	2525	0.058	ug/L	98
44) 1,2,4-Trimethylbenzene	10.94	105	2525	0.057	ug/L	93
46) trans-1,3-Dichloropropene	7.64	75	1102	0.083	ug/L	100
50) 2-Hexanone	8.17	43	4181	0.983	ug/L #	80
58) Isopropylbenzene	9.95	105	4390	0.084	ug/L #	90
60) 1,1,2,2-Tetrachloroethane	10.24	83	2687	0.354	ug/L #	71

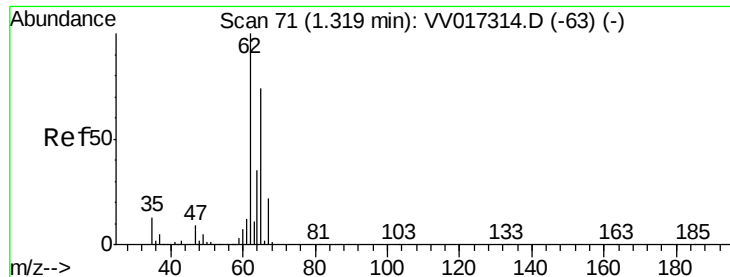
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 11.338 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV017323.D

Acq: 02 Jul 2020 22:13

Instrument :

MSVOA_V

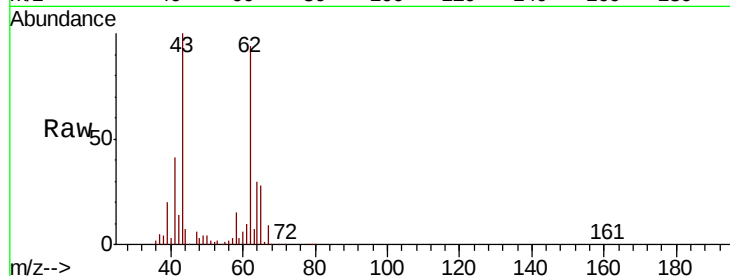
ClientSampled :

Tot Ion: 62 Resp: 123847

Ion Ratio Lower Upper

62 100

64 31.8 22.5 41.7



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

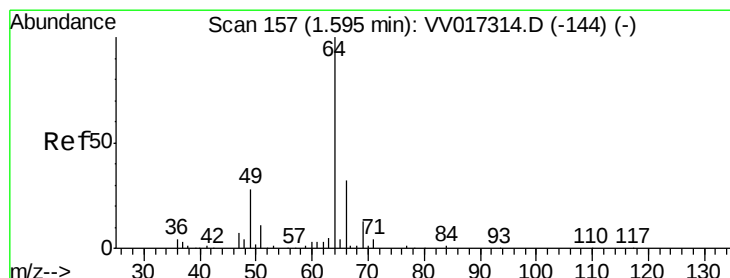
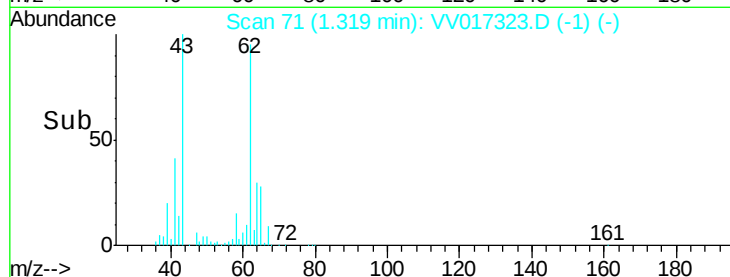
1.32

100000

50000

0

Time-->



#8

Chloroethane

Concen: 11.879 ug/L

RT: 1.58 min Scan# 152

Delta R.T. -0.02 min

Lab File: VV017323.D

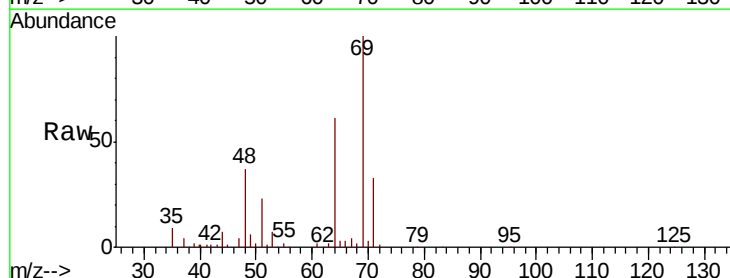
Acq: 02 Jul 2020 22:13

Tgt Ion: 64 Resp: 71710

Ion Ratio Lower Upper

64 100

66 5.4 22.8 42.4#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0

1.58

20000

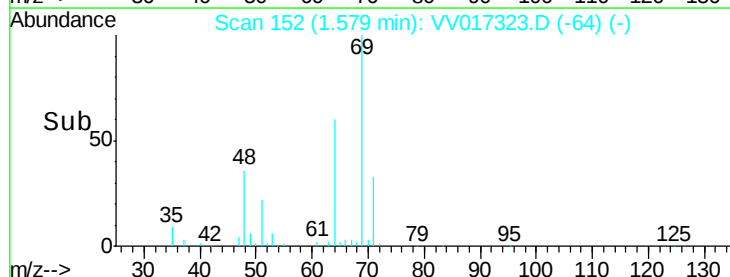
15000

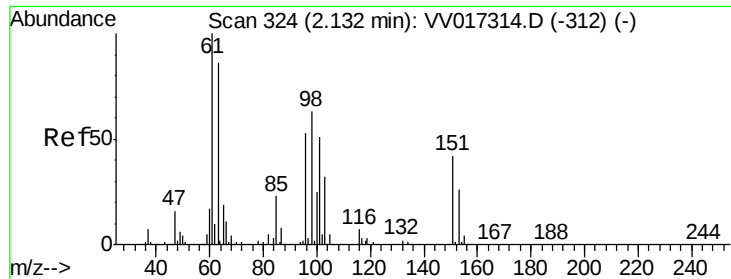
10000

5000

0

Time-->





#10

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

Concen: 0.076 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV017323.D

Acq: 02 Jul 2020 22:13

Instrument :

MSVOA_V

ClientSampleId :

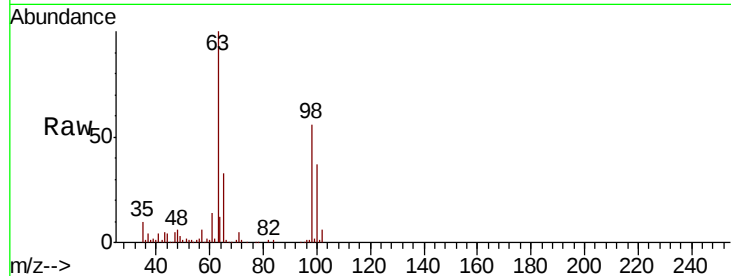
Tot Ion:101 Resp: 669

Ion Ratio Lower Upper

101 100

85 10.0 35.4 53.2#

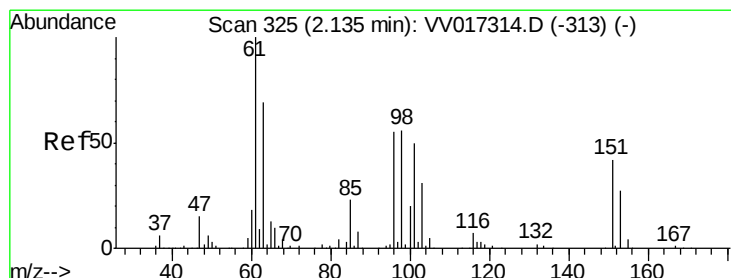
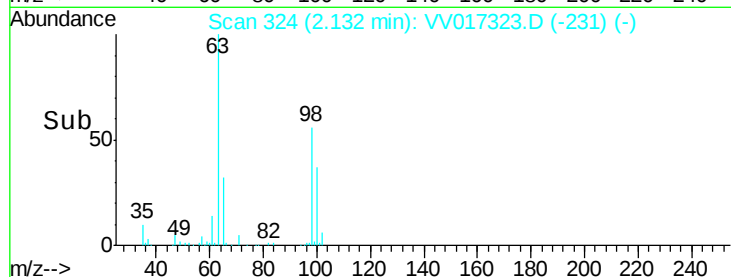
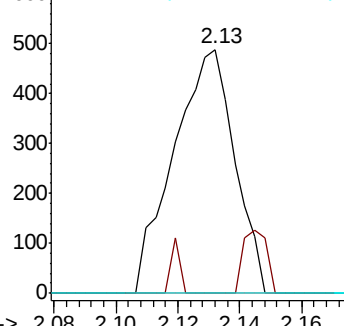
151 0.0 63.9 95.9#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 0.102 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV017323.D

Acq: 02 Jul 2020 22:13

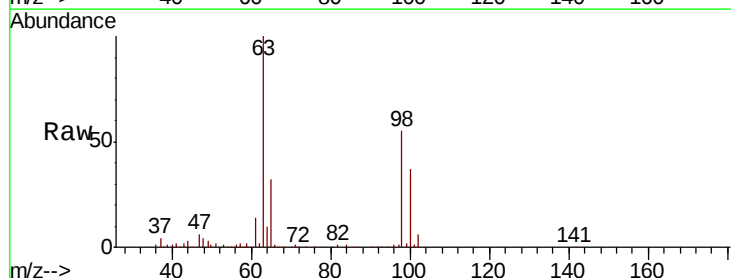
Tgt Ion: 96 Resp: 816

Ion Ratio Lower Upper

96 100

61 1132.4 125.0 232.2#

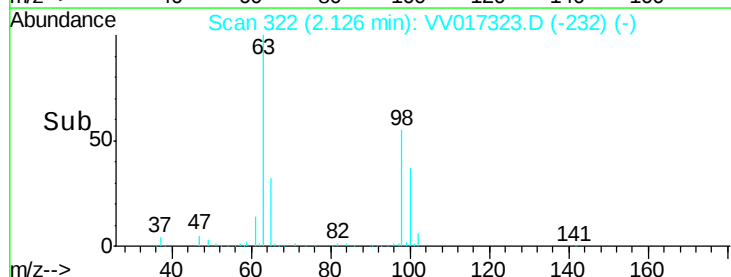
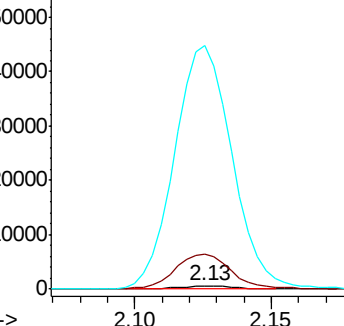
63 7943.3 109.8 203.8#

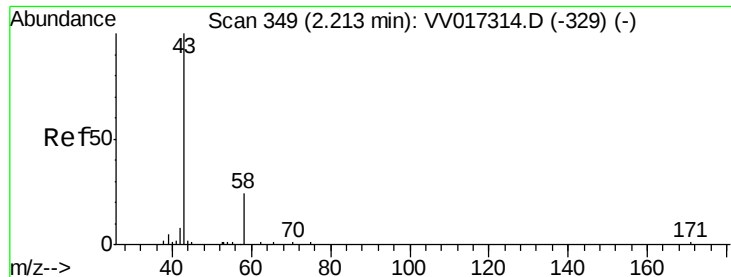


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#13

Acetone

Concen: 6.060 ug/L

RT: 2.15 min Scan# 329

Delta R.T. -0.06 min

Lab File: VV017323.D

Acq: 02 Jul 2020 22:13

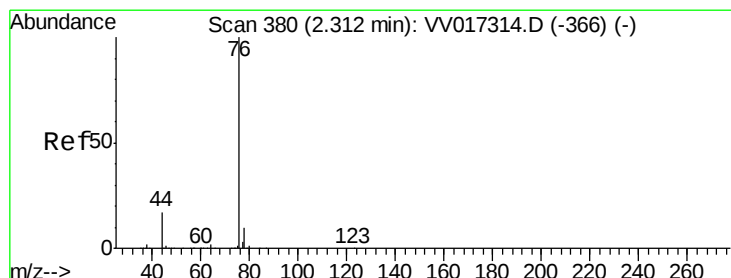
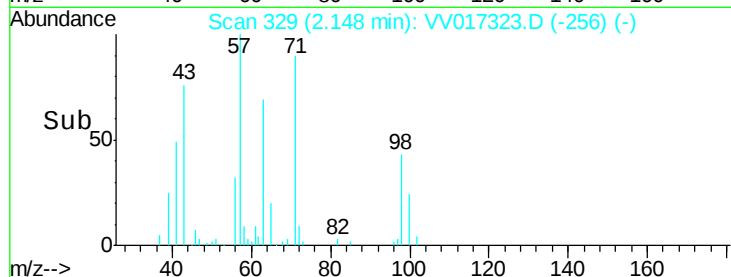
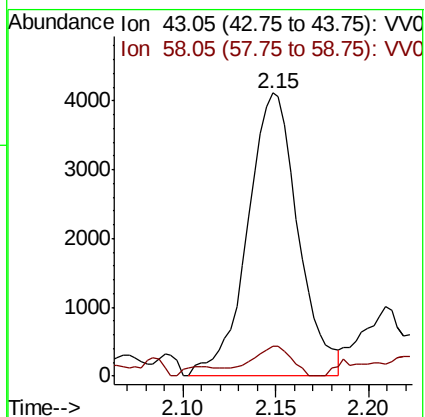
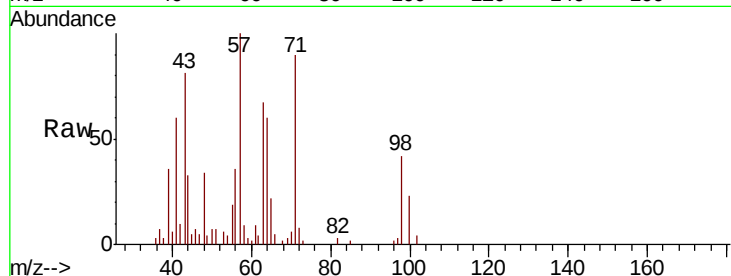
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 7800

Ion Ratio Lower Upper

43 100

58 8.3 0.0 58.4



#14

Carbon disulfide

Concen: 0.092 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV017323.D

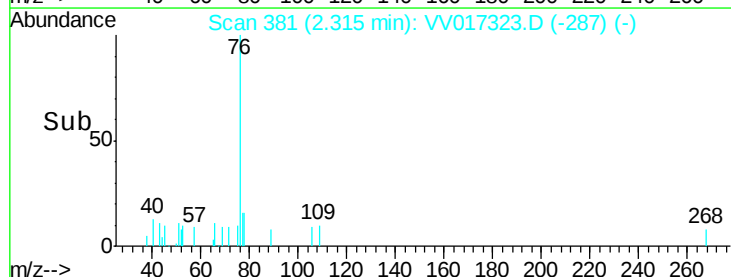
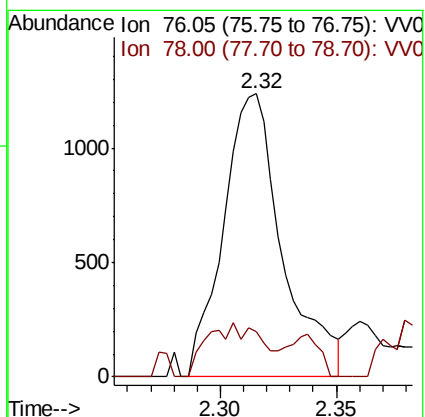
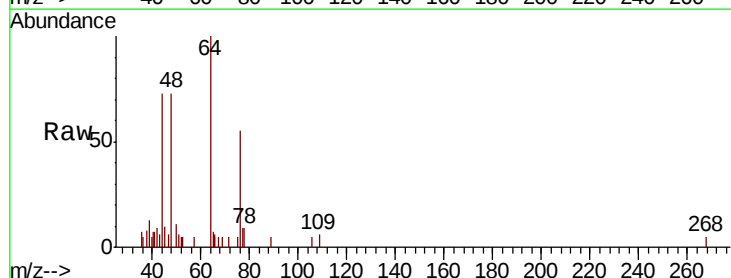
Acq: 02 Jul 2020 22:13

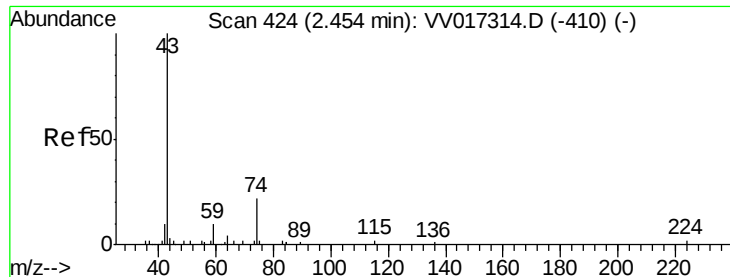
Tgt Ion: 76 Resp: 2197

Ion Ratio Lower Upper

76 100

78 16.2 7.7 11.5#





#15

Methyl Acetate

Concen: 19.843 ug/L

RT: 2.51 min Scan# 443

Delta R.T. 0.06 min

Lab File: VV017323.D

Acq: 02 Jul 2020 22:13

Instrument :

MSVOA_V

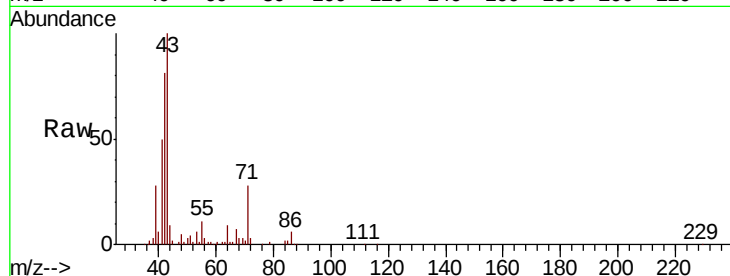
ClientSampled :

Tot Ion: 43 Resp: 62448

Ion Ratio Lower Upper

43 100

74 0.1 19.1 28.7#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

2.51

25000

20000

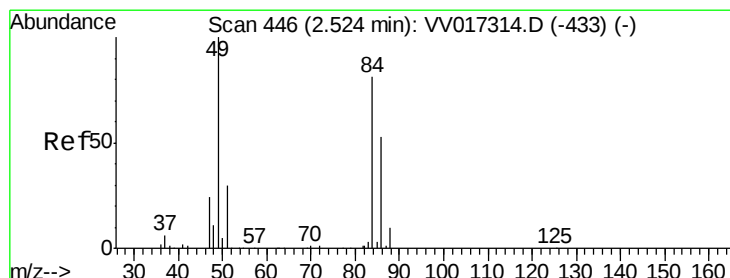
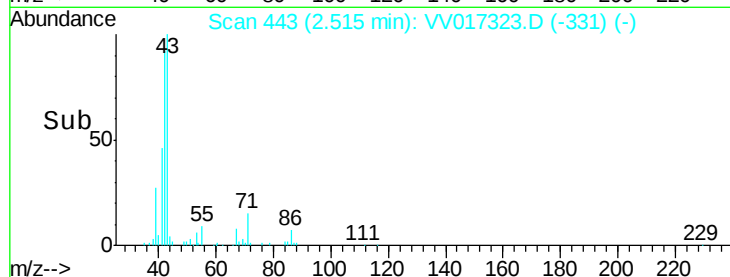
15000

10000

5000

0

Time--> 2.40 2.45 2.50 2.55 2.60



#16

Methylene chloride

Concen: 0.155 ug/L

RT: 2.52 min Scan# 445

Delta R.T. -0.00 min

Lab File: VV017323.D

Acq: 02 Jul 2020 22:13

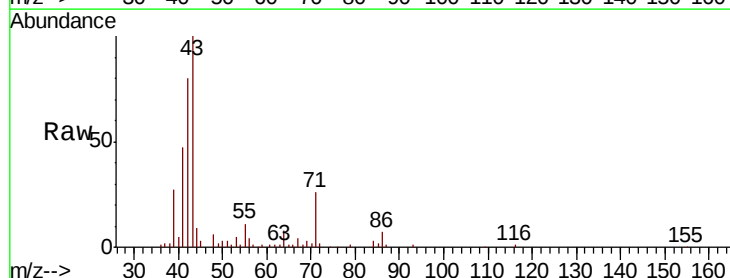
Tgt Ion: 84 Resp: 1324

Ion Ratio Lower Upper

84 100

86 265.2 45.8 85.0#

49 71.6 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

2000

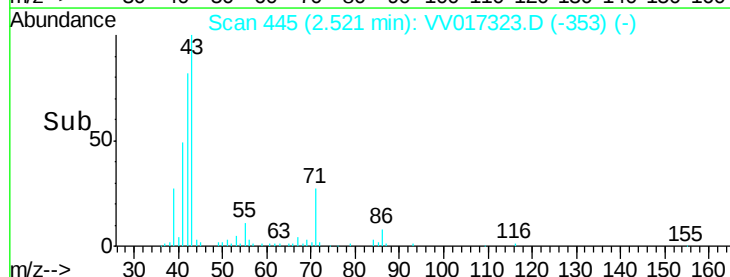
1500

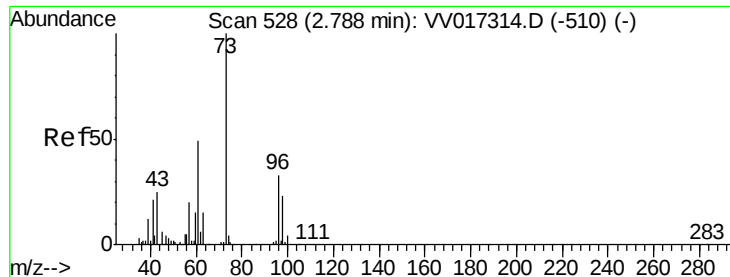
1000

500

0

Time--> 2.50 2.55



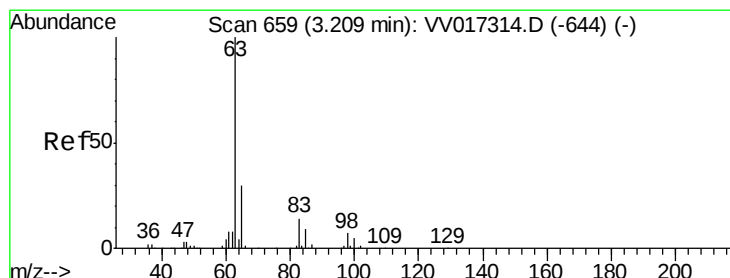
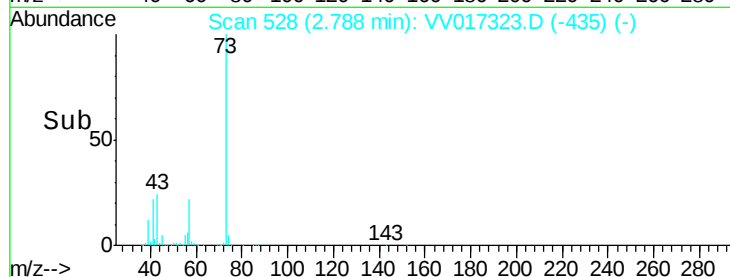
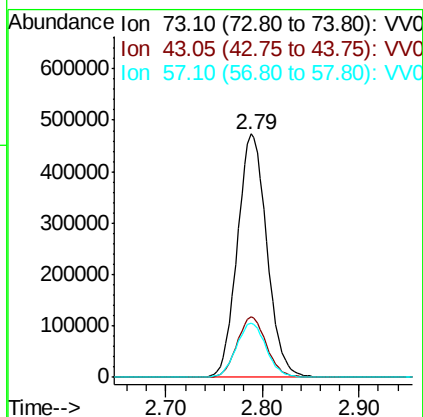
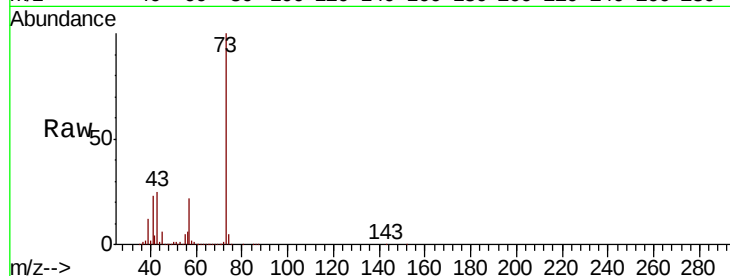


#17
Methvl tert-butvl Ether
Concen: 49.915 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV017323.D
Acq: 02 Jul 2020 22:13

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 73 Resp: 1001322

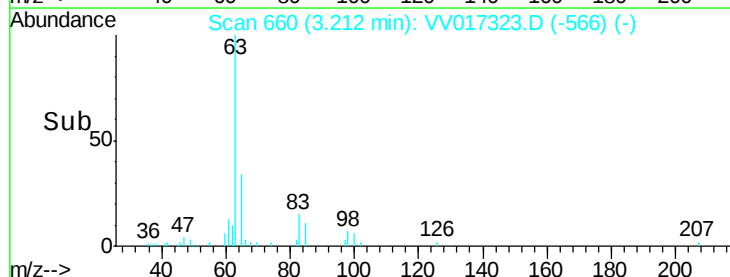
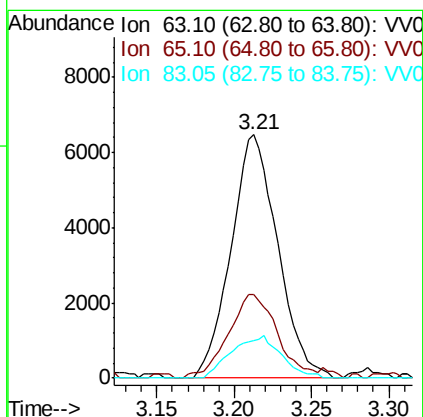
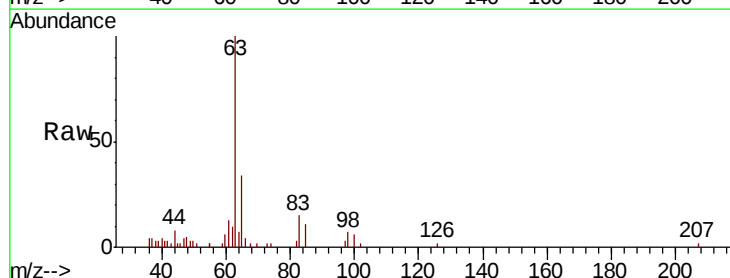
Ion	Ratio	Lower	Upper
73	100		
43	24.7	18.6	28.0
57	22.5	16.4	24.6

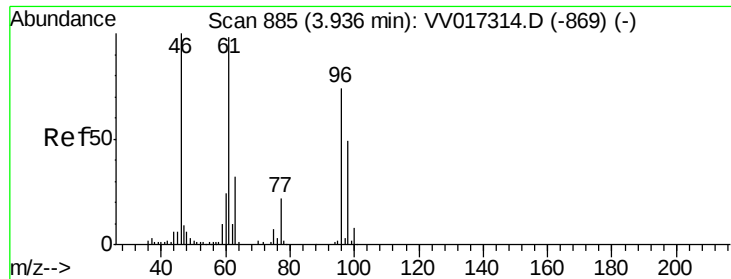


#19
1,1-Dichloroethane
Concen: 0.714 ug/L
RT: 3.21 min Scan# 660
Delta R.T. 0.00 min
Lab File: VV017323.D
Acq: 02 Jul 2020 22:13

Tgt Ion: 63 Resp: 13590

Ion	Ratio	Lower	Upper
63	100		
65	34.3	21.8	40.4
83	15.4	9.7	17.9



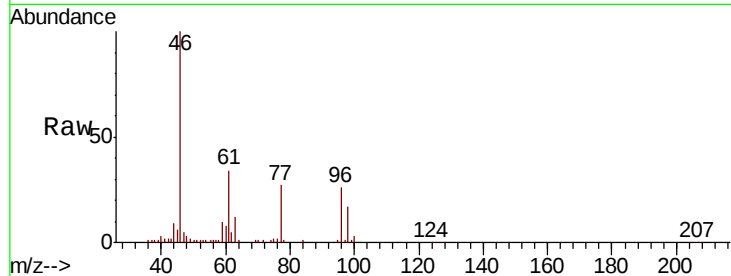


#22

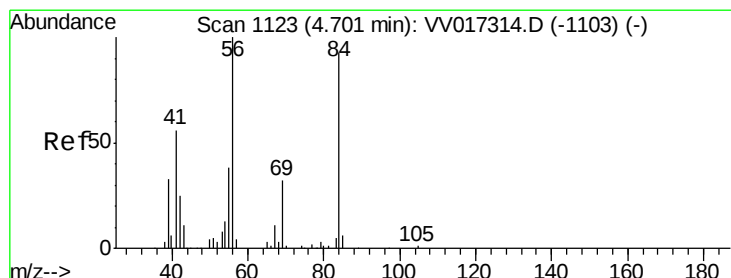
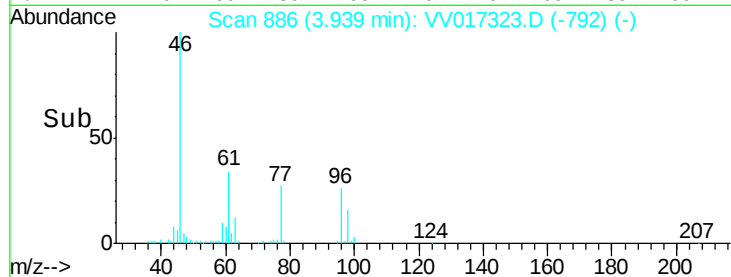
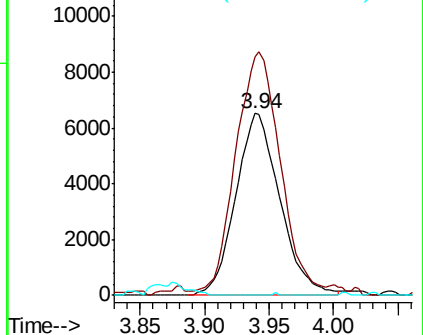
cis-1,2-Dichloroethene
Concen: 1.343 ug/L
RT: 3.94 min Scan# 886
Delta R.T. 0.00 min
Lab File: VV017323.D
Acq: 02 Jul 2020 22:13

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 96 Resp: 15547
Ion Ratio Lower Upper
96 100
61 131.3 91.0 169.0
68 0.0 0.0 0.0



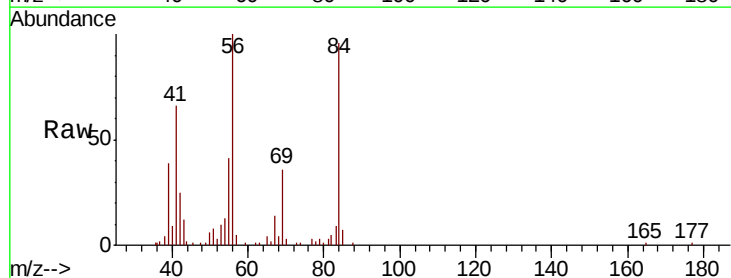
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



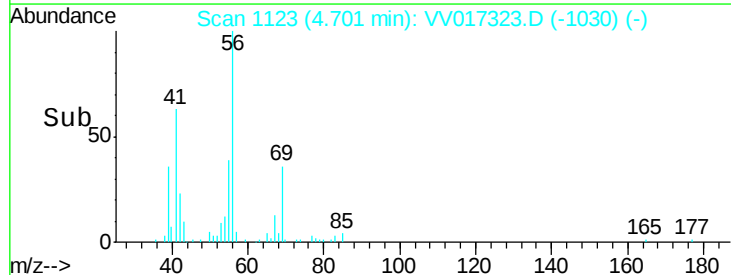
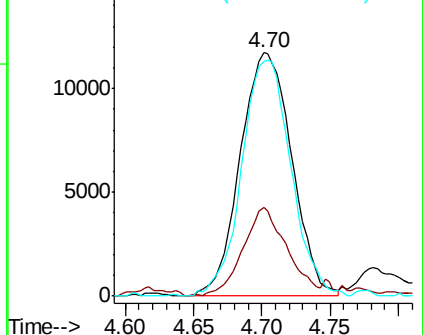
#30

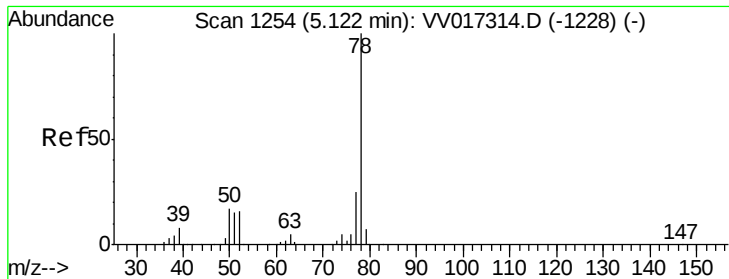
Cyclohexane
Concen: 1.691 ug/L
RT: 4.70 min Scan# 1123
Delta R.T. -0.00 min
Lab File: VV017323.D
Acq: 02 Jul 2020 22:13

Tgt Ion: 56 Resp: 30796
Ion Ratio Lower Upper
56 100
69 31.1 24.4 36.6
84 92.5 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: 4.550 ug/L

RT: 5.13 min Scan# 1255

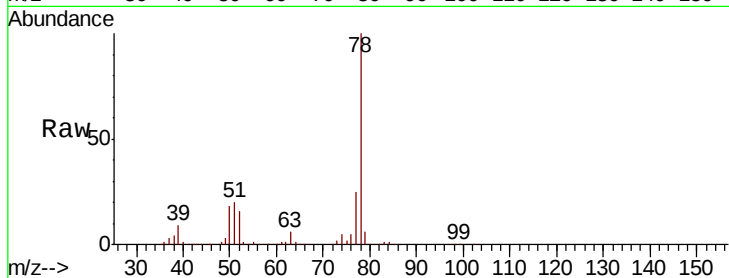
Delta R.T. 0.00 min

Lab File: VV017323.D

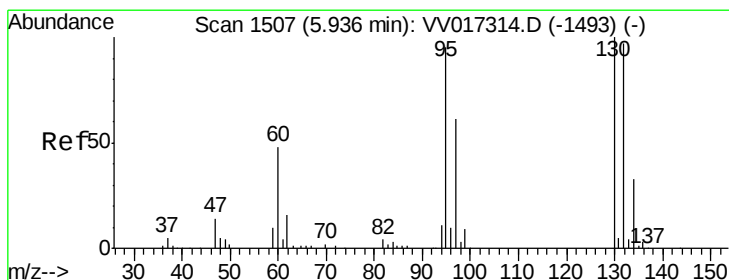
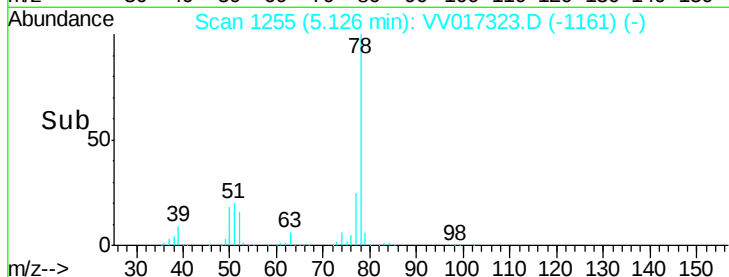
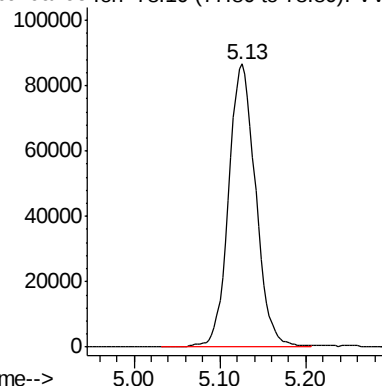
Acq: 02 Jul 2020 22:13

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 78 Resp: 190325



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 0.191 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VV017323.D

Acq: 02 Jul 2020 22:13

Tgt Ion: 95 Resp: 2340

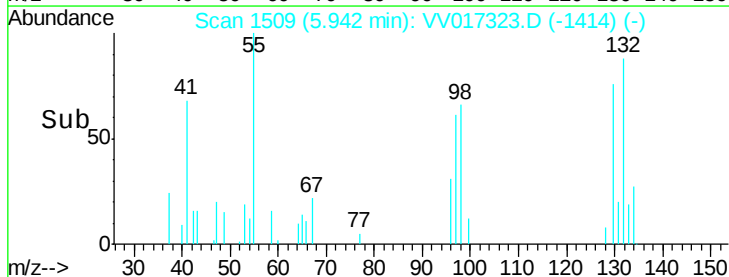
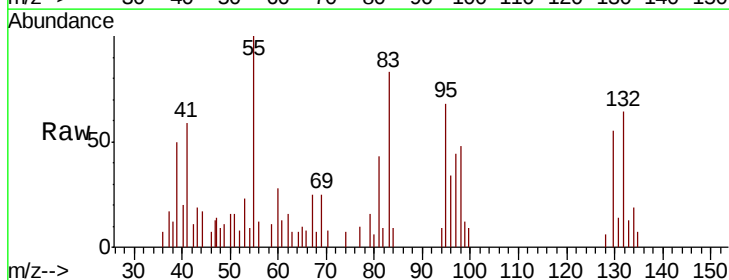
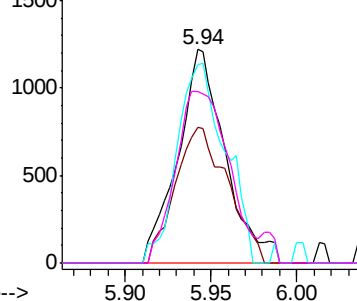
Ion	Ratio	Lower	Upper
95	100		
97	63.6	45.3	84.1
132	93.0	68.8	127.8
130	80.3	70.2	130.4

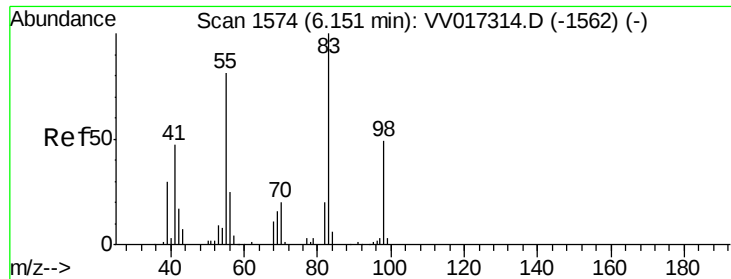
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

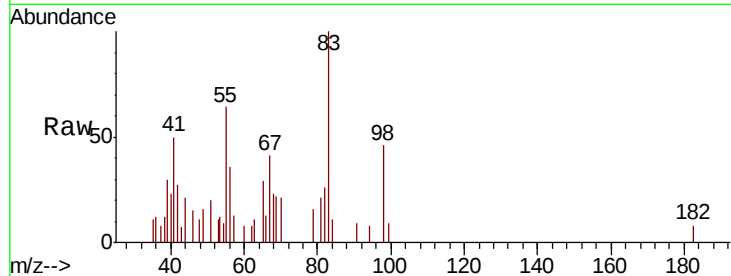




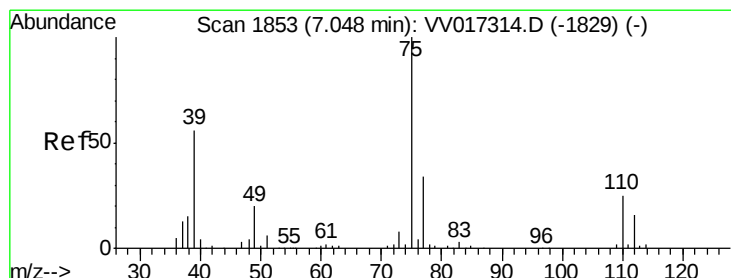
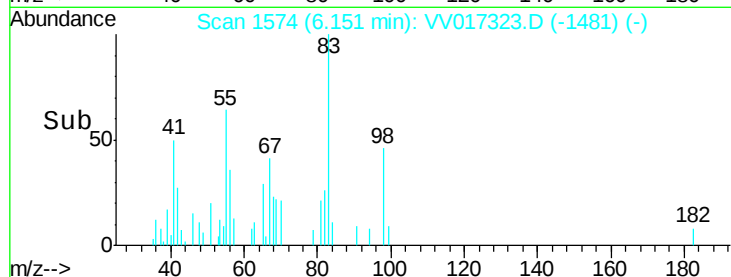
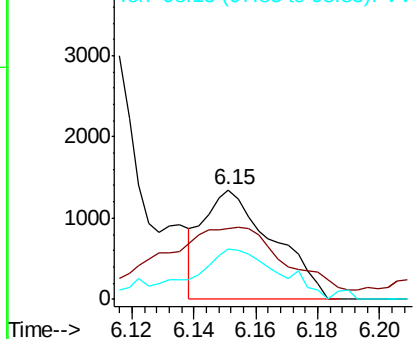
#35
Methylcyclohexane
Concen: 0.110 ug/L
RT: 6.15 min Scan# 1574
Delta R.T. -0.00 min
Lab File: VV017323.D
Acq: 02 Jul 2020 22:13

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 83 Resp: 2096
Ion Ratio Lower Upper
83 100
55 116.8 63.6 95.4#
98 55.6 38.8 58.2

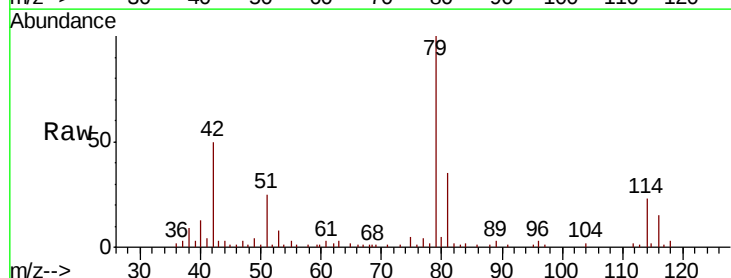


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

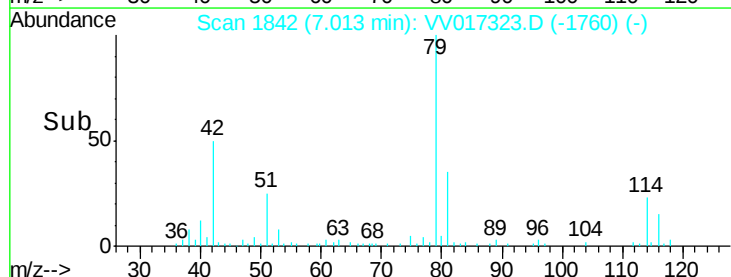
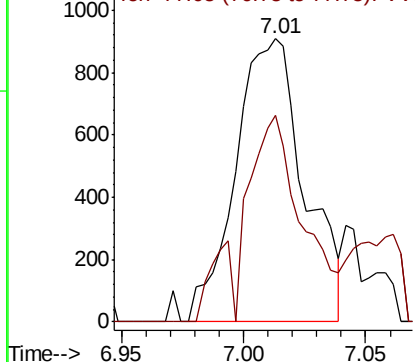


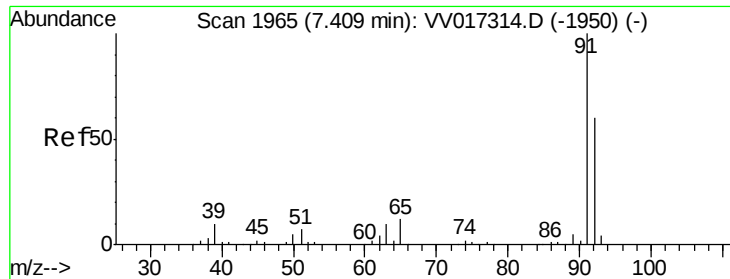
#39
cis-1,3-Dichloropropene
Concen: 0.116 ug/L
RT: 7.01 min Scan# 1842
Delta R.T. -0.04 min
Lab File: VV017323.D
Acq: 02 Jul 2020 22:13

Tgt Ion: 75 Resp: 1782
Ion Ratio Lower Upper
75 100
77 73.0 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: 0.189 ug/L

RT: 7.41 min Scan# 1967

Delta R.T. 0.01 min

Lab File: VV017323.D

Acq: 02 Jul 2020 22:13

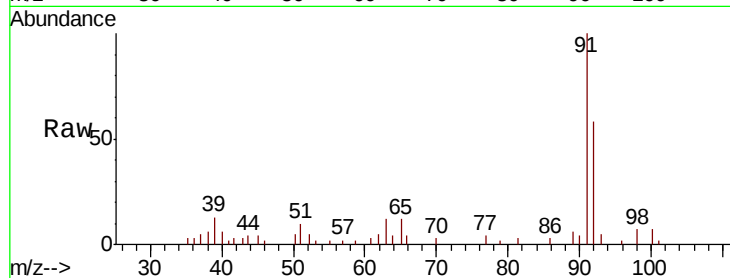
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 9209

Ion Ratio Lower Upper

91 100

92 57.8 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VV017314.D (-1950) (-)

Ion 92.15 (91.85 to 92.85): VV017314.D (-1950) (-)

7.41

6000

5000

4000

3000

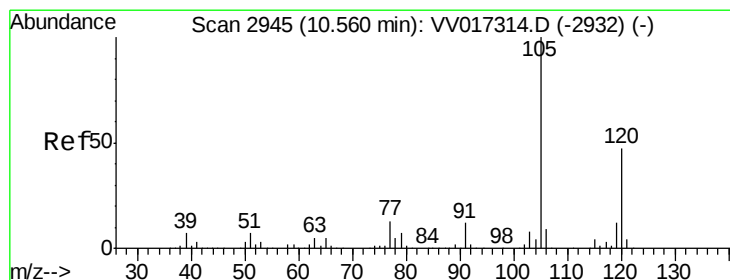
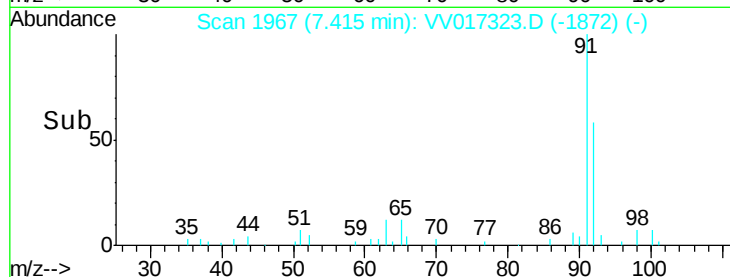
2000

1000

0

Time-->

7.35 7.40 7.45 7.50



#43

1,3,5-Trimethylbenzene

Concen: 0.058 ug/L

RT: 10.94 min Scan# 3063

Delta R.T. 0.38 min

Lab File: VV017323.D

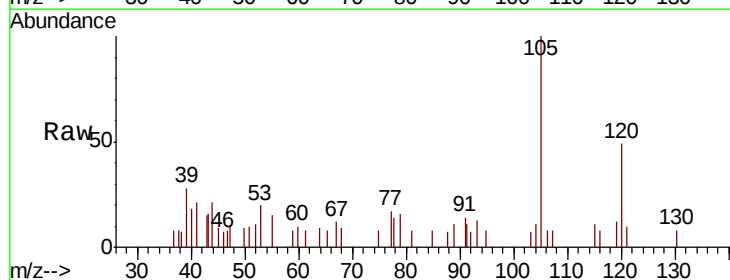
Acq: 02 Jul 2020 22:13

Tgt Ion:105 Resp: 2525

Ion Ratio Lower Upper

105 100

120 49.5 38.6 57.8



Abundance Ion 105.00 (104.70 to 105.70): VV017314.D (-2932) (-)

Ion 120.00 (119.70 to 120.70): VV017314.D (-2932) (-)

10.94

1500

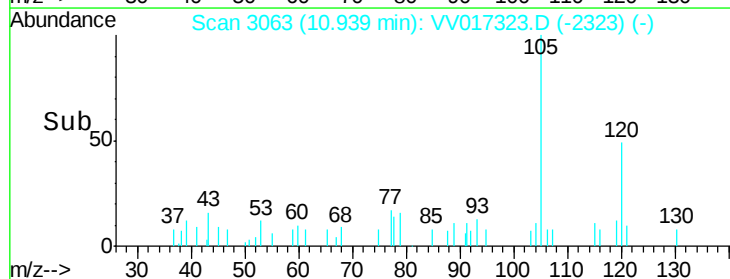
1000

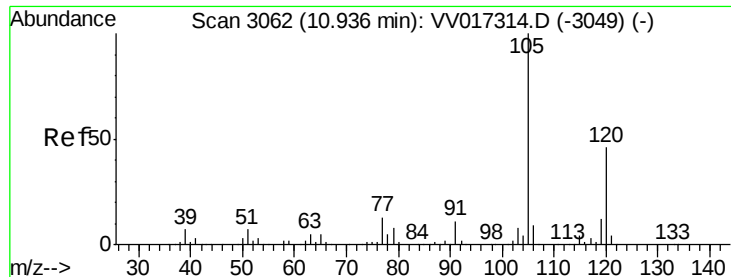
500

0

Time-->

10.90 10.95

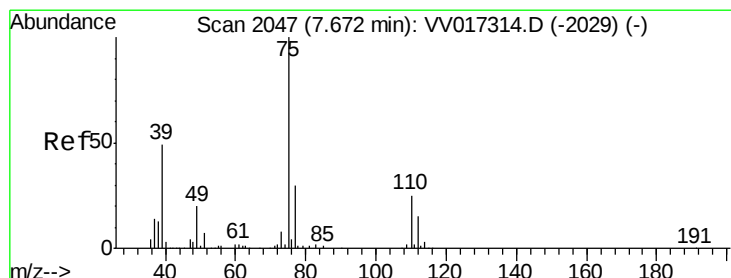
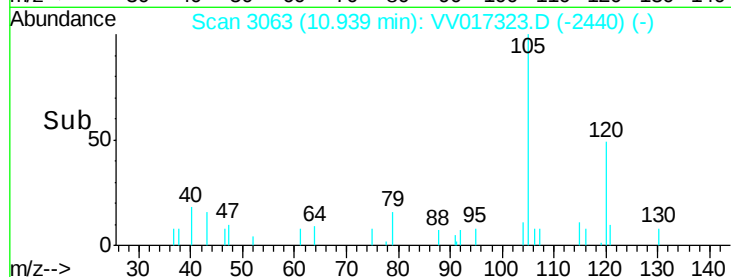
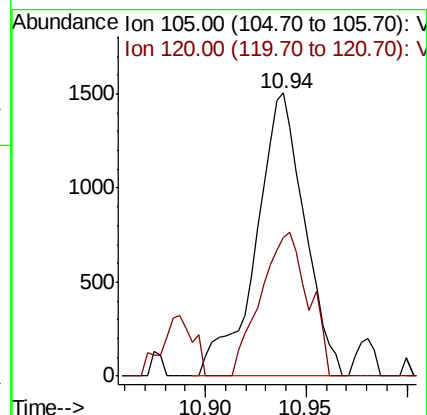
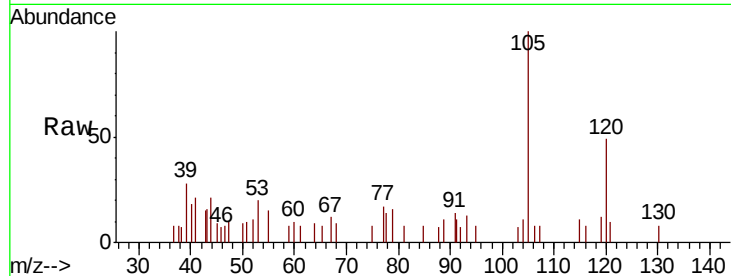




#44
1,2,4-Trimethylbenzene
Concen: 0.057 ug/L
RT: 10.94 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VV017323.D
Acq: 02 Jul 2020 22:13

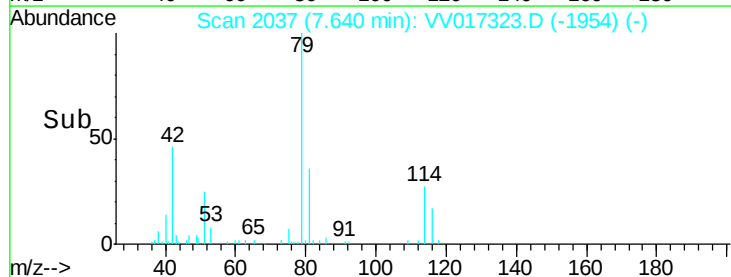
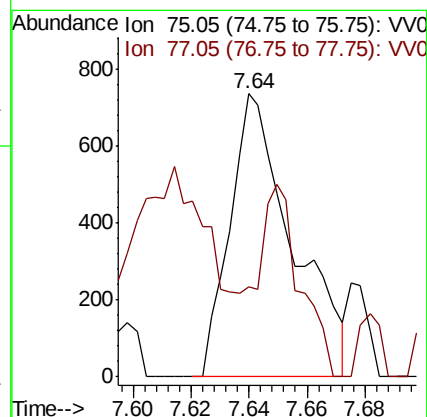
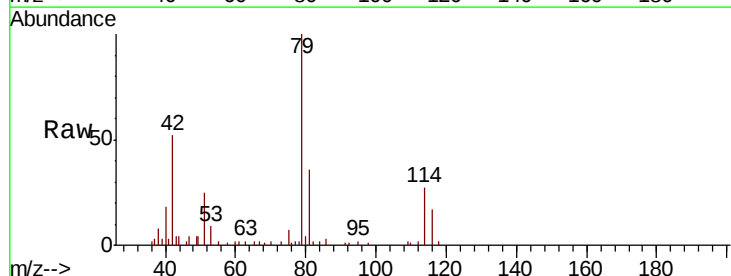
Instrument :
MSVOA_V
ClientSampled :

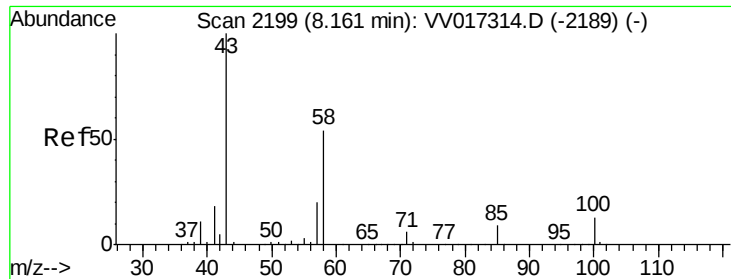
Tot Ion:105 Resp: 2525
Ion Ratio Lower Upper
105 100
120 49.5 35.8 53.8



#46
trans-1,3-Dichloropropene
Concen: 0.083 ug/L
RT: 7.64 min Scan# 2037
Delta R.T. -0.03 min
Lab File: VV017323.D
Acq: 02 Jul 2020 22:13

Tgt Ion: 75 Resp: 1102
Ion Ratio Lower Upper
75 100
77 31.7 22.3 41.3

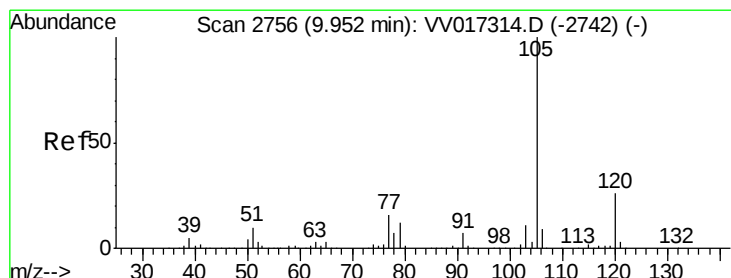
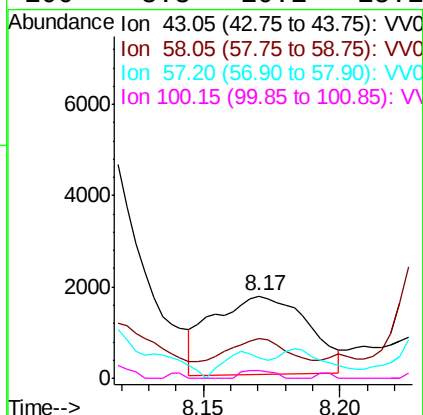
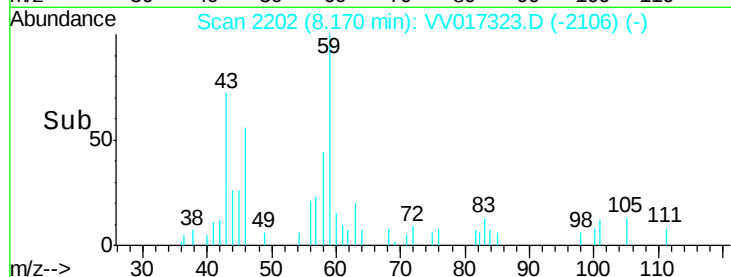
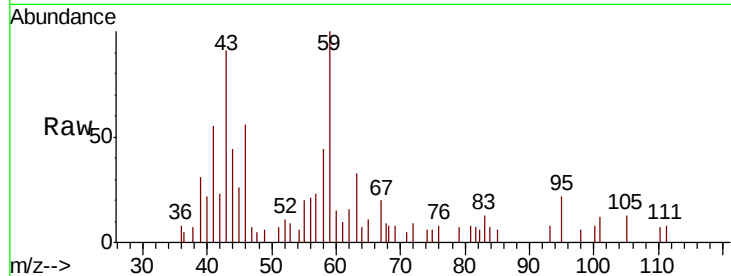




#50
2-Hexanone
Concen: 0.983 ug/L
RT: 8.17 min Scan# 2202
Delta R.T. 0.01 min
Lab File: VV017323.D
Acq: 02 Jul 2020 22:13

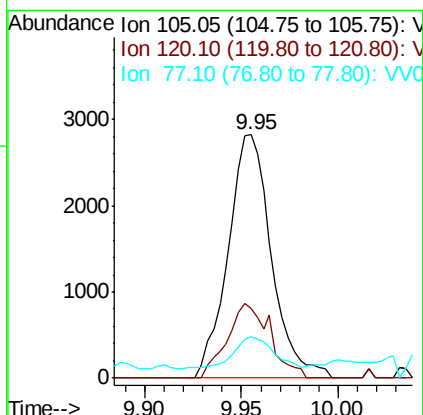
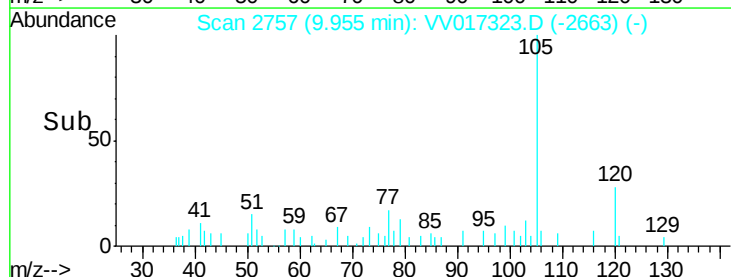
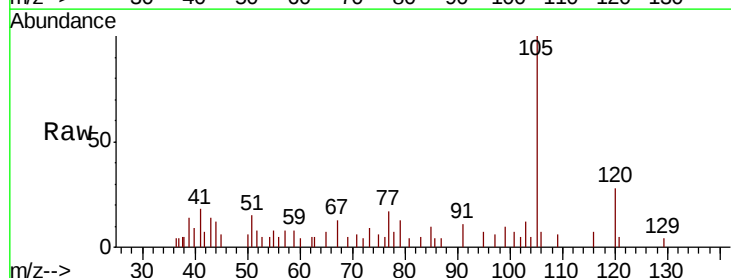
Instrument :
MSVOA_V
ClientSampleId :

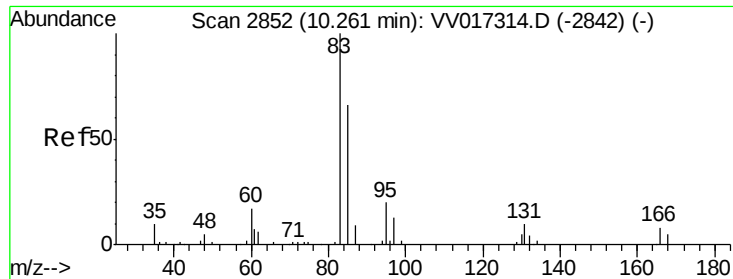
Tot Ion: 43 Resp: 4181
Ion Ratio Lower Upper
43 100
58 35.7 41.6 62.4#
57 14.3 15.4 23.0#
100 3.3 10.1 15.1#



#58
Isopropylbenzene
Concen: 0.084 ug/L
RT: 9.95 min Scan# 2757
Delta R.T. 0.00 min
Lab File: VV017323.D
Acq: 02 Jul 2020 22:13

Tgt Ion: 105 Resp: 4390
Ion Ratio Lower Upper
105 100
120 30.5 21.2 31.8
77 21.7 13.0 19.4#





#60

1,1,2,2-Tetrachloroethane

Concen: 0.354 ug/L

RT: 10.24 min Scan# 2847

Delta R.T. -0.02 min

Lab File: VV017323.D

Acq: 02 Jul 2020 22:13

Instrument :

MSVOA_V

ClientSampleId :

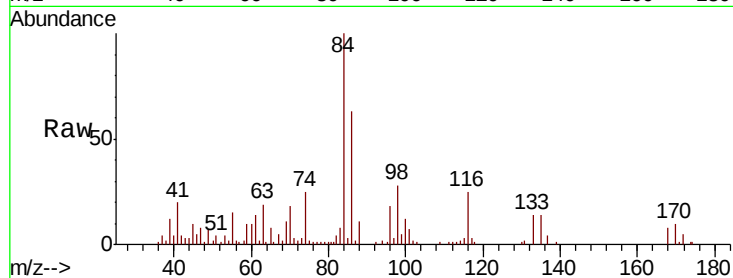
Tot Ion: 83 Resp: 2687

Ion Ratio Lower Upper

83 100

85 42.6 42.9 79.7#

131 30.3 8.6 13.0#



Abundance Ion 82.95 (82.65 to 83.65): VV017323.D (-2759) (-)

Ion 85.00 (84.70 to 85.70): VV017323.D (-2759) (-)

Ion 130.95 (130.65 to 131.65): VV017323.D (-2759) (-)

