

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV061220\
 Data File : VV016910.D
 Acq On : 13 Jun 2020 04:29
 Operator : SY/MD
 Sample : L2990-12
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 42 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 E3YG8

Quant Time: Jun 13 06:16:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM060820WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jun 13 06:09:05 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.65	114	360409	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.88	117	335471	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	175835	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	105465	41.47	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	82.94%
7) Chloroethane-d5	1.57	69	62419	40.90	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	81.80%
11) 1,1-Dichloroethene-d2	2.12	63	147938	34.64	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	69.28%
21) 2-Butanone-d5	3.90	46	179804	95.53	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	95.53%
24) Chloroform-d	4.38	84	232893	45.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	90.08%
26) 1,2-Dichloroethane-d4	5.06	65	170118	48.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.74%
32) Benzene-d6	5.08	84	448338	46.36	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.72%
36) 1,2-Dichloropropane-d6	6.10	67	141260	46.86	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.72%
41) Toluene-d8	7.39	98	416143	46.89	ug/L	0.05
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.78%
43) trans-1,3-Dichloropropene-	7.66	79	62272	39.66	ug/L	0.02
Spiked Amount	50.000	Range	60 - 125	Recovery	=	79.32%
47) 2-Hexanone-d5	8.12	63	116666	88.77	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	88.77%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	170763	42.79	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	85.58%
64) 1,2-Dichlorobenzene-d4	11.65	152	177369	47.27	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	94.54%

Target Compounds

					Ovalue
5) Vinyl chloride	1.32	62	11352	4.418	ug/L # 76
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1388	0.724	ug/L # 19
12) 1,1-Dichloroethene	2.12	96	1964	1.098	ug/L # 1
13) Acetone	2.18	43	3308	2.667	ug/L 95
15) Methyl Acetate	2.44	43	29569	10.697	ug/L 100
19) 1,1-Dichloroethane	3.21	63	29227	6.366	ug/L 97
22) 2-Butanone	4.00	43	5096	2.665	ug/L # 55
29) Cyclohexane	4.70	56	480756	115.324	ug/L 97
34) Trichloroethene	5.95	95	2278	0.856	ug/L # 82
35) Methylcyclohexane	6.16	83	2668283	638.937	ug/L 97
37) 1,2-Dichloropropane	6.16	63	27894	10.806	ug/L # 69
39) cis-1,3-Dichloropropene	7.02	75	2873	0.717	ug/L # 4
40) 4-Methyl-2-pentanone	7.29	43	8390	2.294	ug/L # 74
55) Styrene	9.59	104	1057409	146.956	ug/L # 1
56) Isopropylbenzene	9.96	105	1115854	97.578	ug/L 99
65) 1,2-Dichlorobenzene	11.67	146	28110	5.037	ug/L 95
66) 1,2-Dibromo-3-chloropropan	12.44	75	3331	3.796	ug/L # 2

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Quant Title : VOC Analysis
QLast Update : Sat Jun 13 06:09:05 2020
Response via : Initial Calibration

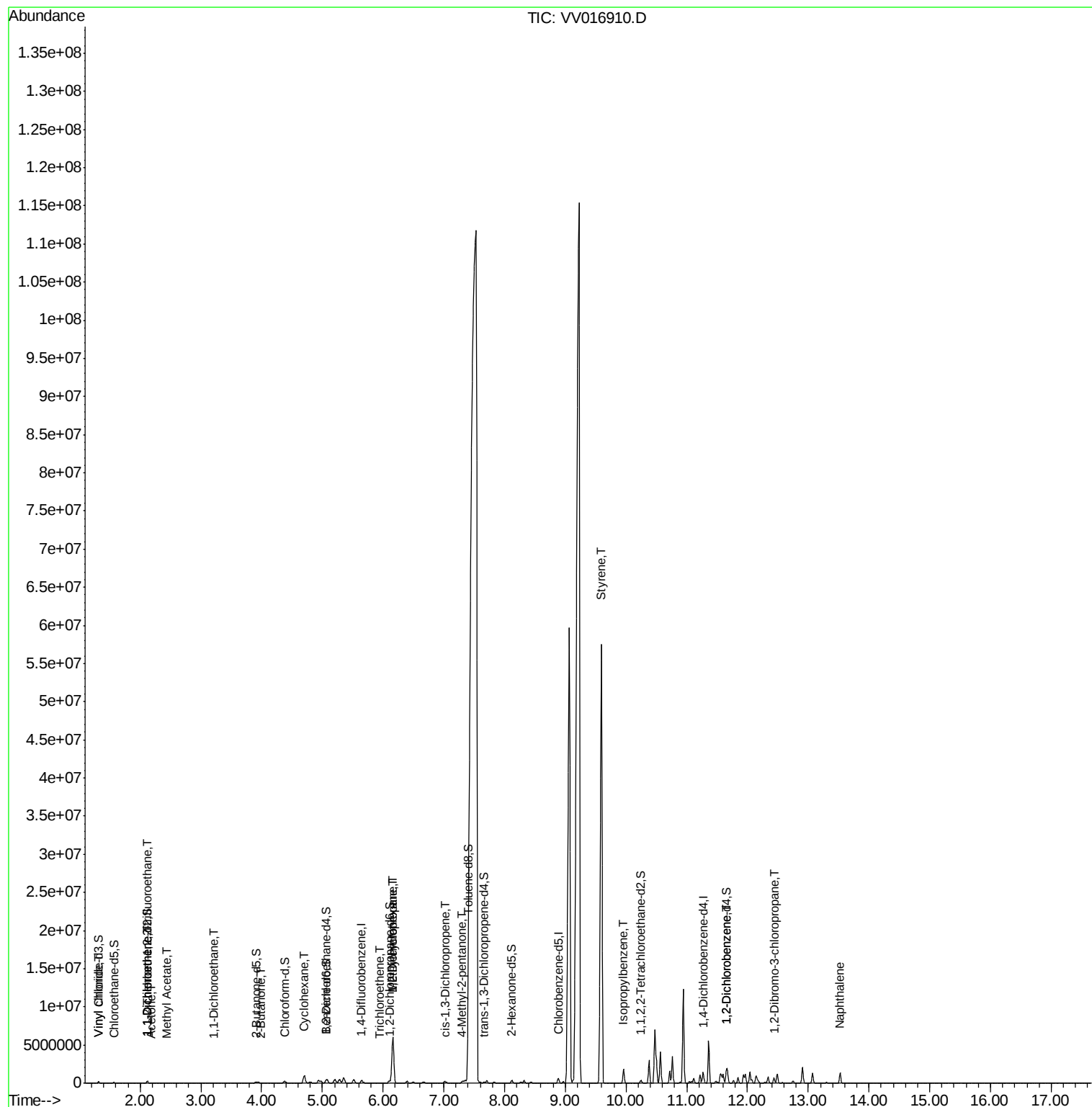
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
-----	-----	-----	-----	-----	-----	-----
69) Naphthalene	13.53	128	979200	89.365	ug/L	100
-----	-----	-----	-----	-----	-----	-----

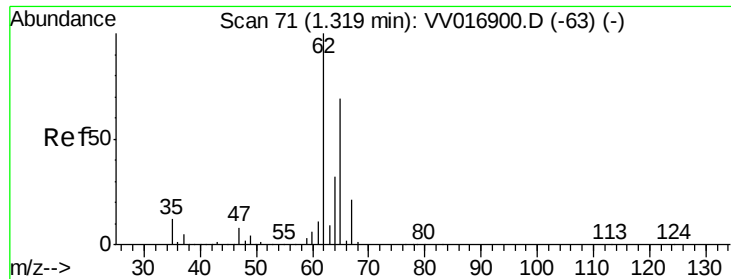
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 4.418 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV016910.D

Acq: 13 Jun 2020 04:29

Instrument :

MSVOA_V

ClientSampleId :

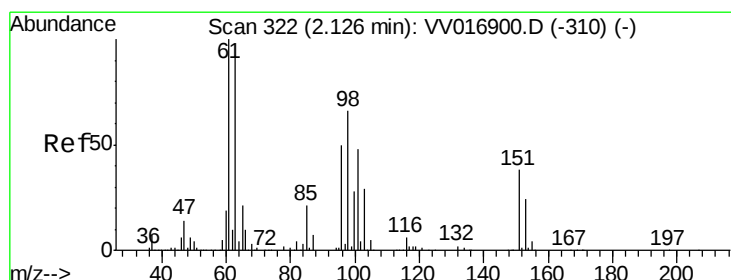
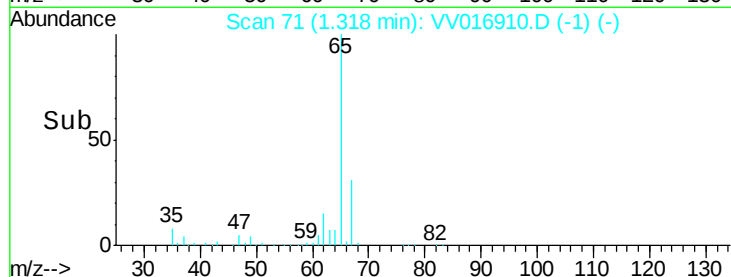
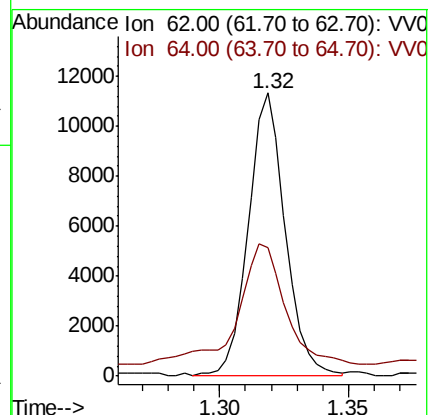
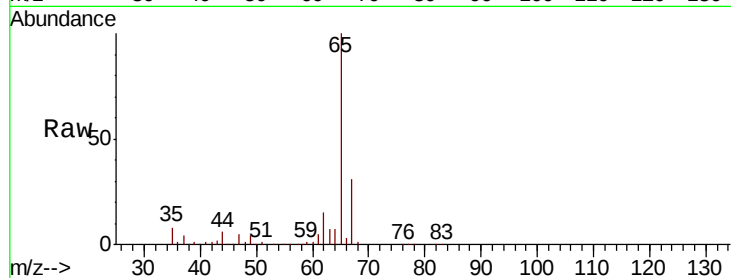
E3YG8

Tot Ion: 62 Resp: 11352

Ion Ratio Lower Upper

62 100

64 45.4 22.3 41.5#



#10

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

Concen: 0.724 ug/L

RT: 2.12 min Scan# 319

Delta R.T. -0.01 min

Lab File: VV016910.D

Acq: 13 Jun 2020 04:29

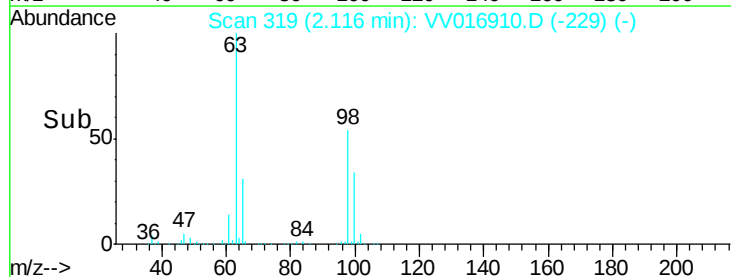
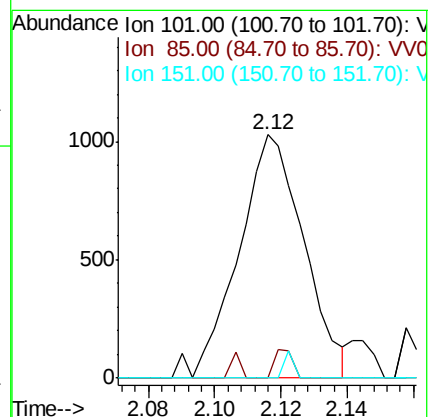
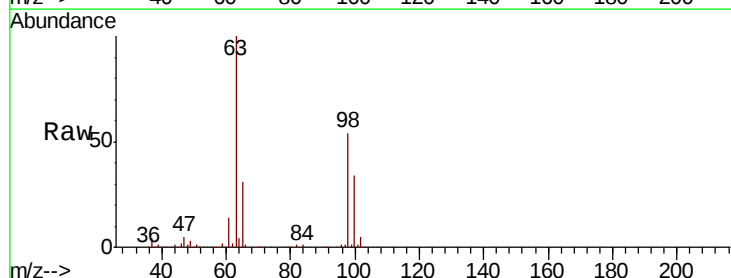
Tgt Ion: 101 Resp: 1388

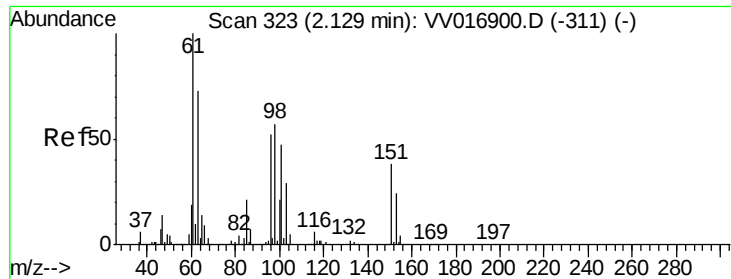
Ion Ratio Lower Upper

101 100

85 3.3 35.5 53.3#

151 0.0 63.9 95.9#





#12

1,1-Dichloroethene

Concen: 1.098 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV016910.D

Acq: 13 Jun 2020 04:29

Instrument :

MSVOA_V

ClientSampleId :

E3YG8

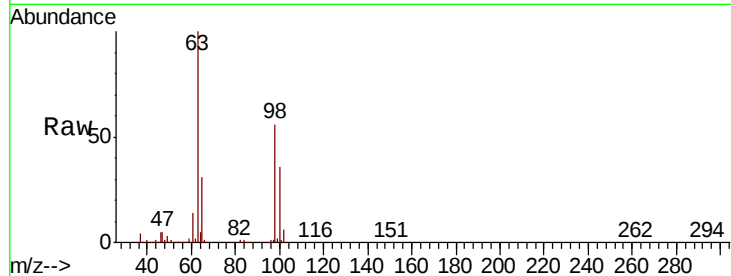
Tot Ion: 96 Resp: 1964

Ion Ratio Lower Upper

96 100

61 974.0 130.4 242.2#

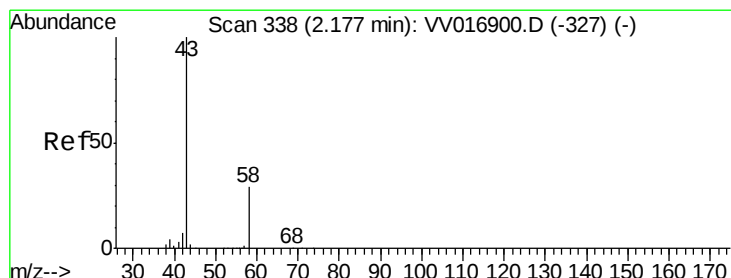
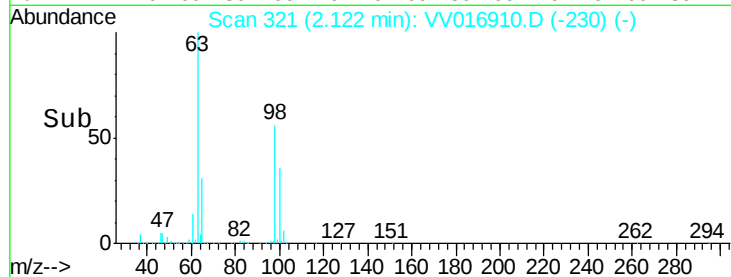
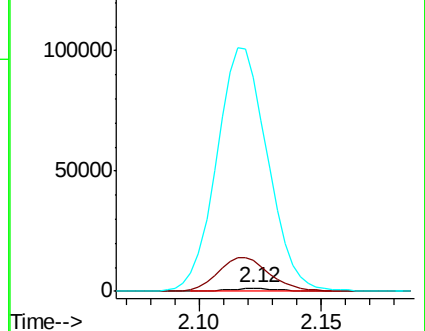
63 6809.2 103.3 191.9#



Abundance Ion 96.00 (95.70 to 96.70): VV016910.D (-230) (-)

Ion 61.00 (60.70 to 61.70): VV016910.D (-230) (-)

Ion 63.00 (62.70 to 63.70): VV016910.D (-230) (-)



#13

Acetone

Concen: 2.667 ug/L

RT: 2.18 min Scan# 338

Delta R.T. -0.00 min

Lab File: VV016910.D

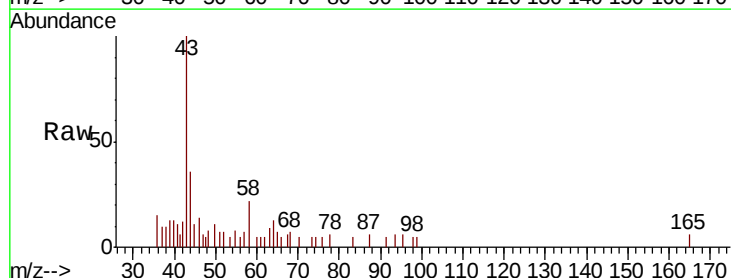
Acq: 13 Jun 2020 04:29

Tgt Ion: 43 Resp: 3308

Ion Ratio Lower Upper

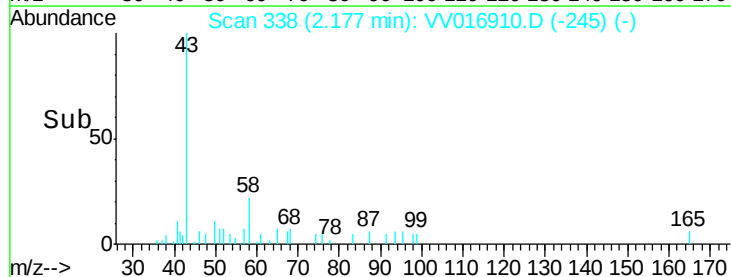
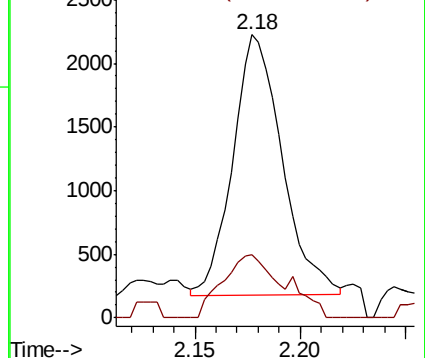
43 100

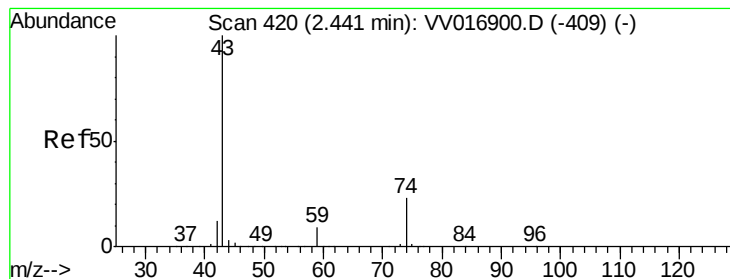
58 25.1 0.0 55.2



Abundance Ion 43.00 (42.70 to 43.70): VV016910.D (-245) (-)

Ion 58.00 (57.70 to 58.70): VV016910.D (-245) (-)





#15

Methyl Acetate

Concen: 10.697 ug/L

RT: 2.44 min Scan# 421

Delta R.T. 0.00 min

Lab File: VV016910.D

Acq: 13 Jun 2020 04:29

Instrument :

MSVOA_V

ClientSampleId :

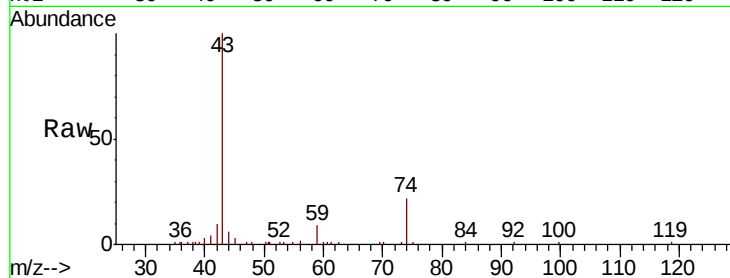
E3YG8

Tot Ion: 43 Resp: 29569

Ion Ratio Lower Upper

43 100

74 22.5 17.9 26.9



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 74.00 (73.70 to 74.70): VV0

20000

15000

10000

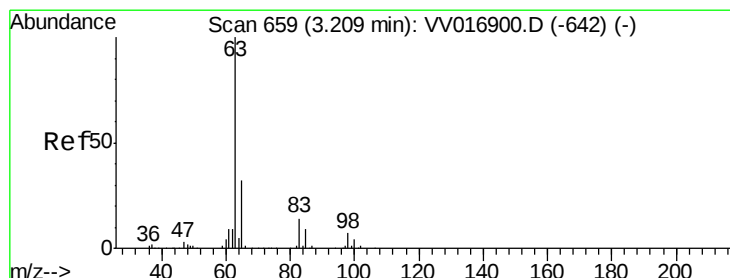
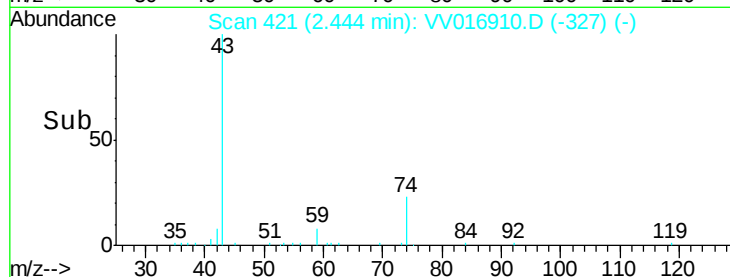
5000

0

Time-->

2.40 2.45 2.50

2.44



#19

1,1-Dichloroethane

Concen: 6.366 ug/L

RT: 3.21 min Scan# 659

Delta R.T. -0.00 min

Lab File: VV016910.D

Acq: 13 Jun 2020 04:29

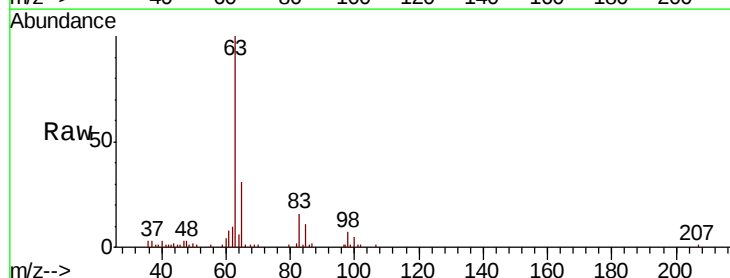
Tgt Ion: 63 Resp: 29227

Ion Ratio Lower Upper

63 100

65 31.2 23.2 43.0

83 15.5 10.0 18.6



Abundance Ion 63.00 (62.70 to 63.70): VV0

Ion 65.00 (64.70 to 65.70): VV0

Ion 83.00 (82.70 to 83.70): VV0

15000

10000

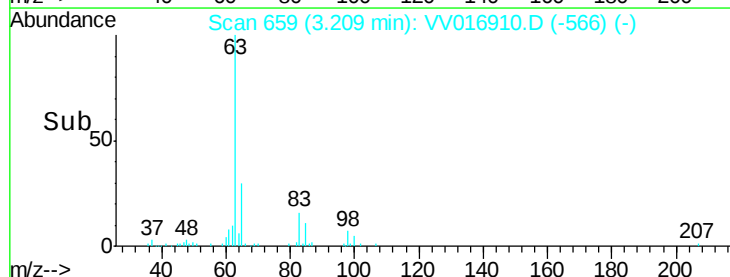
5000

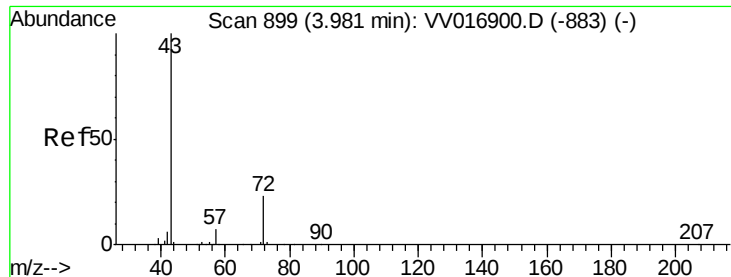
0

Time-->

3.15 3.20 3.25 3.30

3.21





#22

2-Butanone

Concen: 2.665 ug/L

RT: 4.00 min Scan# 904

Delta R.T. 0.02 min

Lab File: VV016910.D

Acq: 13 Jun 2020 04:29

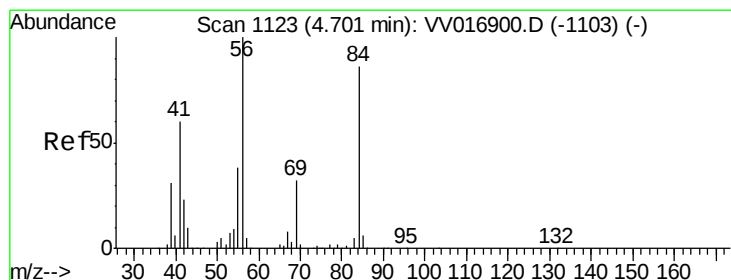
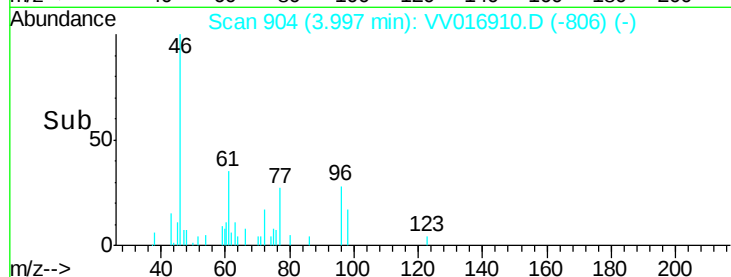
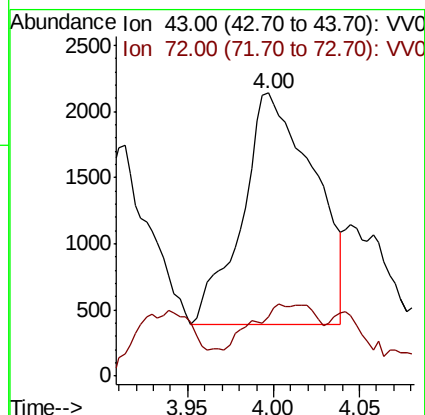
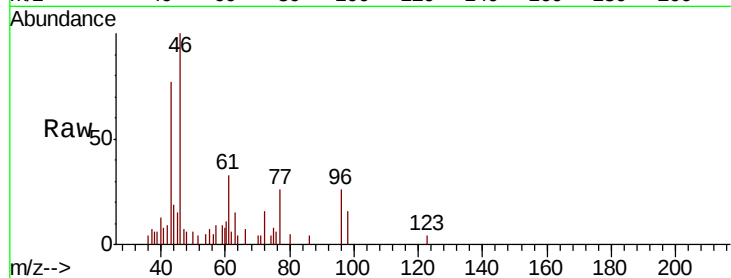
Instrument :
MSVOA_V
ClientSampleId :
E3YG8

Tot Ion: 43 Resp: 5096

Ion Ratio Lower Upper

43 100

72 2.2 12.4 37.4#



#29

Cyclohexane

Concen: 115.324 ug/L

RT: 4.70 min Scan# 1124

Delta R.T. 0.00 min

Lab File: VV016910.D

Acq: 13 Jun 2020 04:29

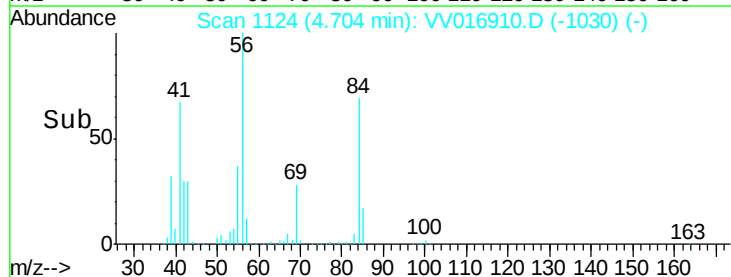
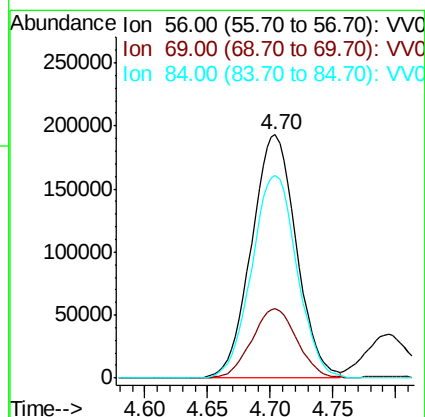
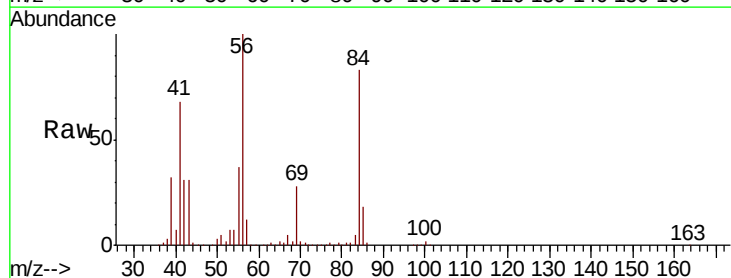
Tgt Ion: 56 Resp: 480756

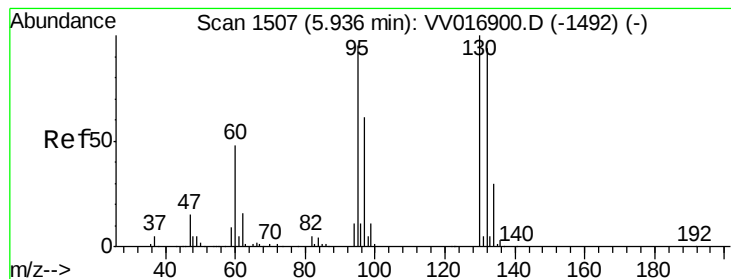
Ion Ratio Lower Upper

56 100

69 28.8 25.0 37.4

84 83.9 69.5 104.3





#34

Trichloroethene

Concen: 0.856 ug/L

RT: 5.95 min Scan# 1512

Delta R.T. 0.02 min

Lab File: VV016910.D

Acq: 13 Jun 2020 04:29

Instrument :

MSVOA_V

ClientSampleId :

E3YG8

Tot Ion: 95 Resp: 2278

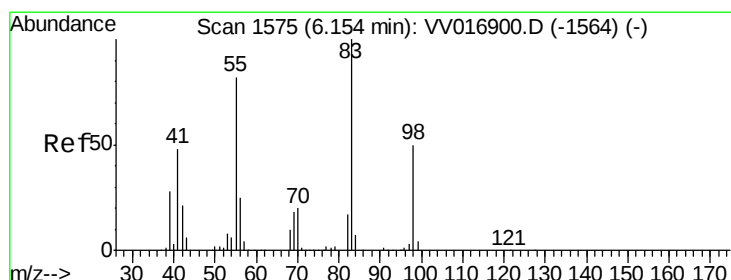
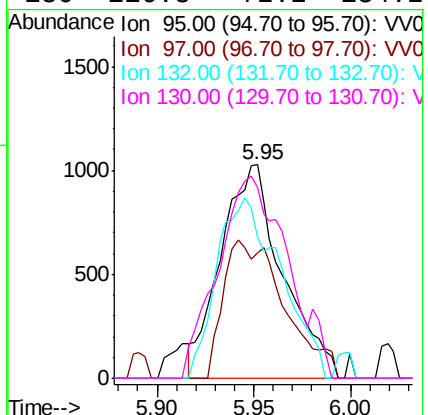
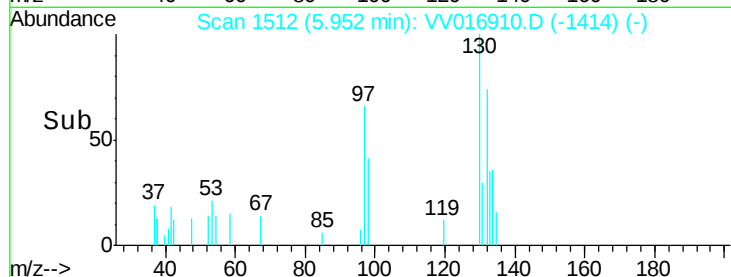
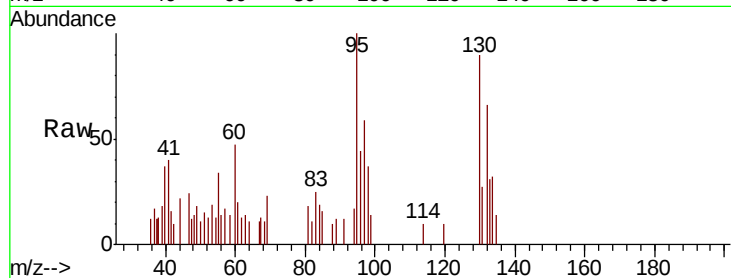
Ion Ratio Lower Upper

95 100

97 58.8 44.3 82.3

132 66.0 67.9 126.1#

130 116.3 72.2 134.2



#35

Methylcyclohexane

Concen: 638.937 ug/L

RT: 6.16 min Scan# 1577

Delta R.T. 0.01 min

Lab File: VV016910.D

Acq: 13 Jun 2020 04:29

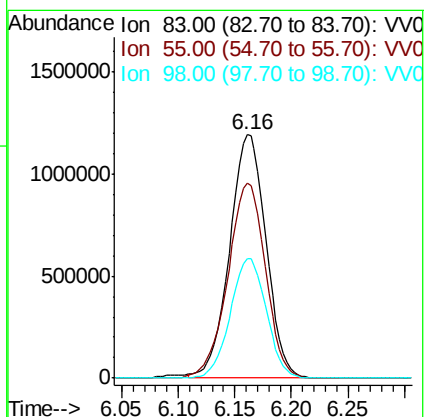
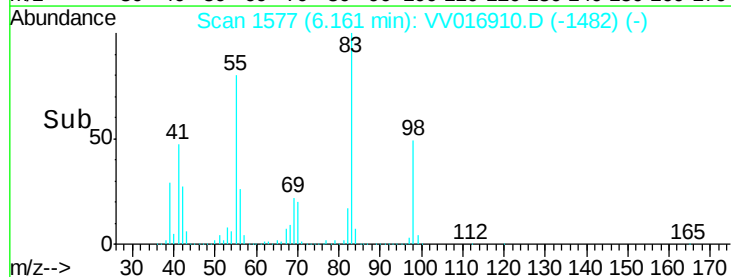
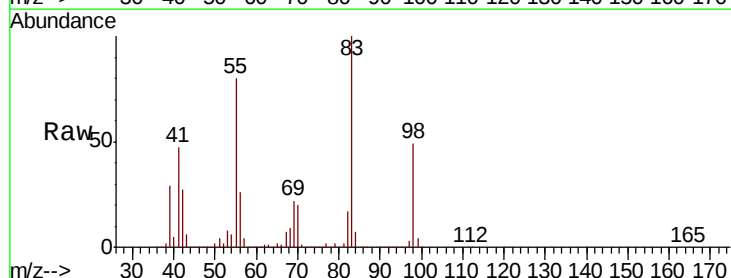
Tgt Ion: 83 Resp: 2668283

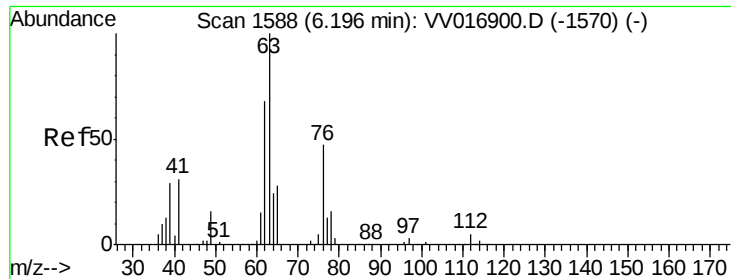
Ion Ratio Lower Upper

83 100

55 82.9 64.2 96.2

98 48.7 40.3 60.5

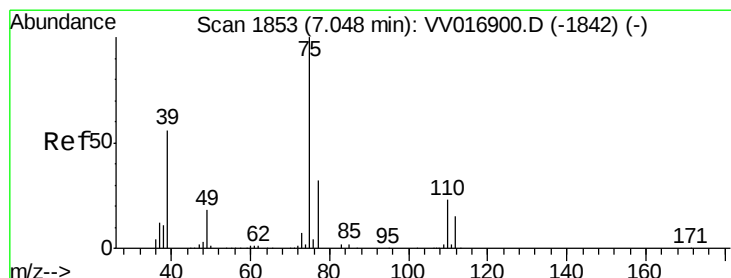
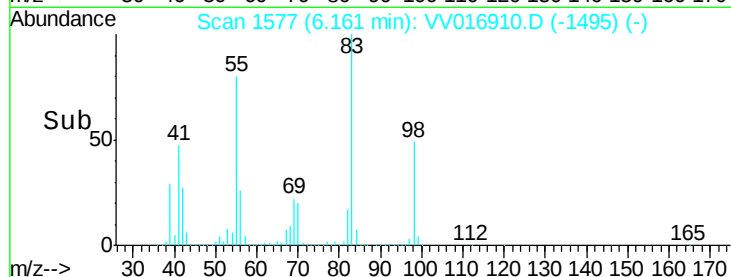
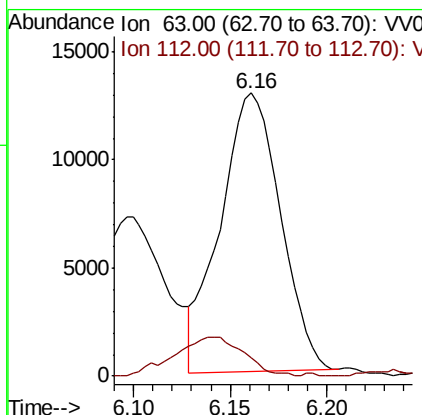
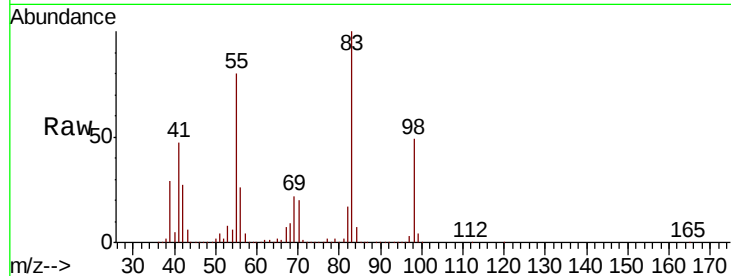




#37
 1,2-Dichloropropane
 Concen: 10.806 ug/L
 RT: 6.16 min Scan# 1577
 Delta R.T. -0.04 min
 Lab File: VV016910.D
 Acq: 13 Jun 2020 04:29

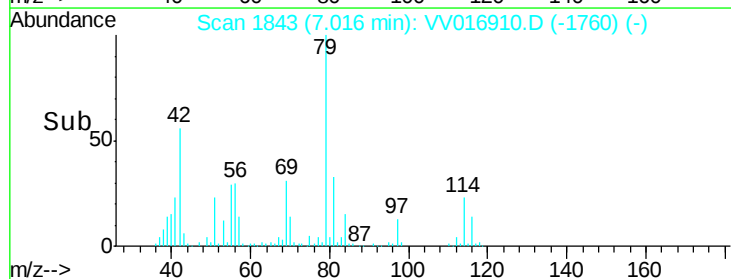
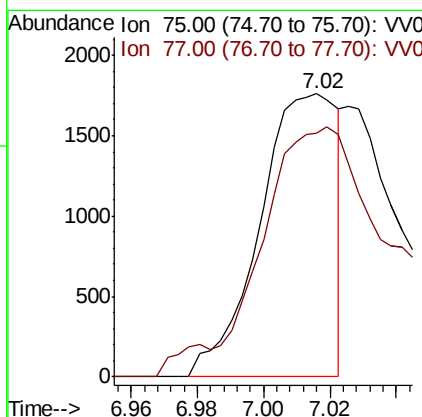
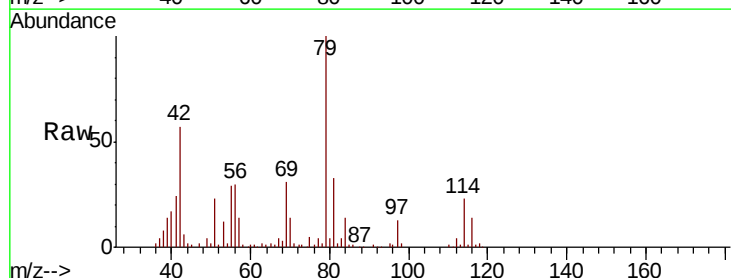
Instrument :
 MSVOA_V
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 E3YG8

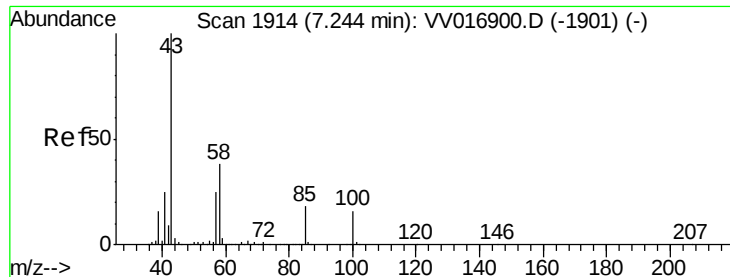
Tot Ion: 63 Resp: 27894
 Ion Ratio Lower Upper
 63 100
 112 15.0 3.8 5.6#



#39
 cis-1,3-Dichloropropene
 Concen: 0.717 ug/L
 RT: 7.02 min Scan# 1843
 Delta R.T. -0.03 min
 Lab File: VV016910.D
 Acq: 13 Jun 2020 04:29

Tgt Ion: 75 Resp: 2873
 Ion Ratio Lower Upper
 75 100
 77 86.0 22.7 42.1#

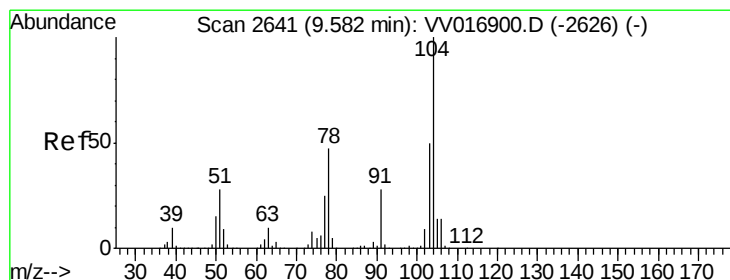
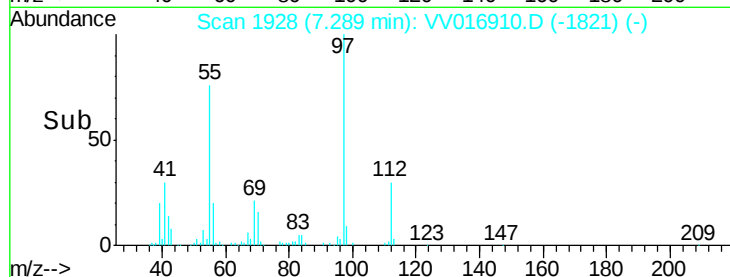
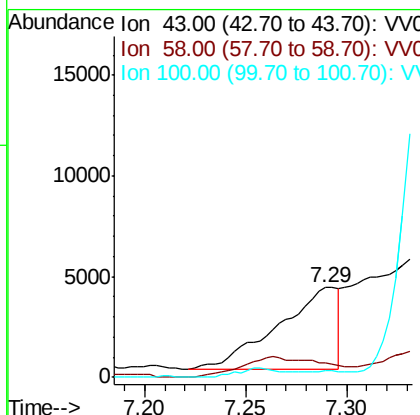
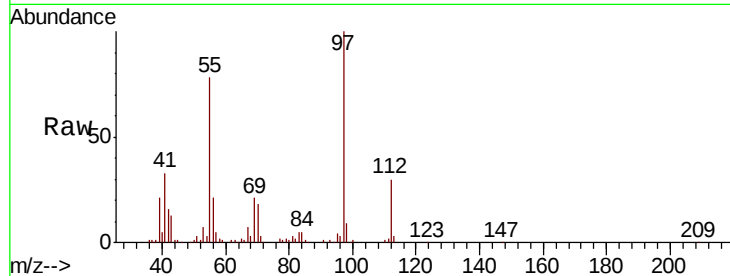




#40
4-Methyl-2-pentanone
Concen: 2.294 ug/L
RT: 7.29 min Scan# 1928
Delta R.T. 0.04 min
Lab File: VV016910.D
Acq: 13 Jun 2020 04:29

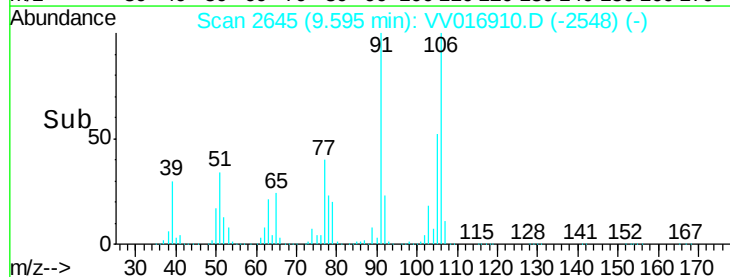
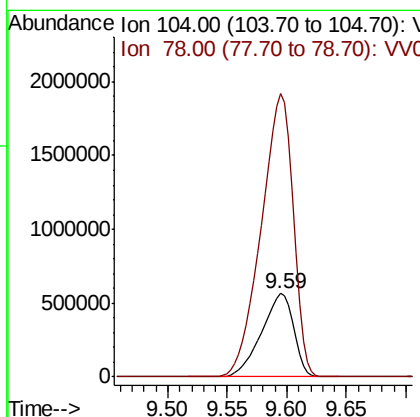
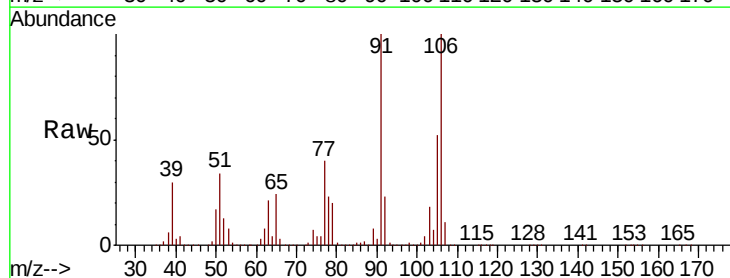
Instrument :
MSVOA_V
ClientSampleId :
E3YG8

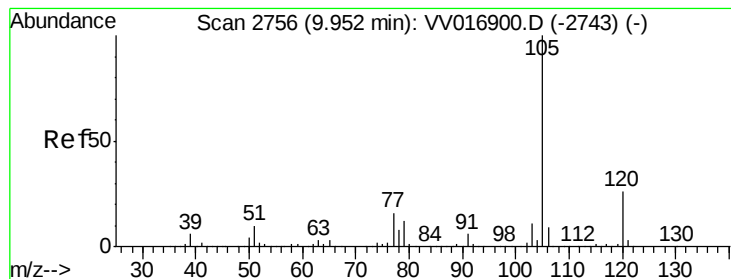
Tot Ion: 43 Resp: 8390
Ion Ratio Lower Upper
43 100
58 20.3 30.2 45.4#
100 6.9 12.3 18.5#



#55
Styrene
Concen: 146.956 ug/L
RT: 9.59 min Scan# 2645
Delta R.T. 0.01 min
Lab File: VV016910.D
Acq: 13 Jun 2020 04:29

Tgt Ion: 104 Resp: 1057409
Ion Ratio Lower Upper
104 100
78 340.4 32.6 60.6#





#56

Isopropylbenzene

Concen: 97.578 ug/L

RT: 9.96 min Scan# 2758

Delta R.T. 0.01 min

Lab File: VV016910.D

Acq: 13 Jun 2020 04:29

Instrument :

MSVOA_V

ClientSampleID :

E3YG8

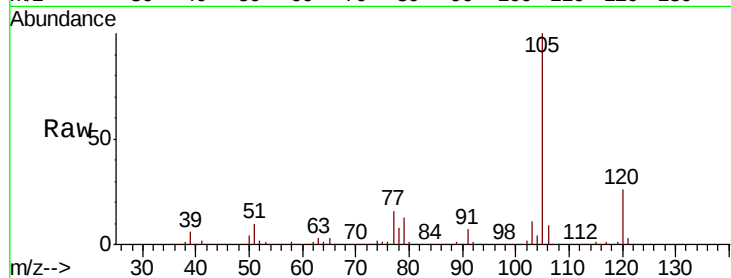
Tot Ion:105 Resp: 1115854

Ion Ratio Lower Upper

105 100

120 26.1 21.2 31.8

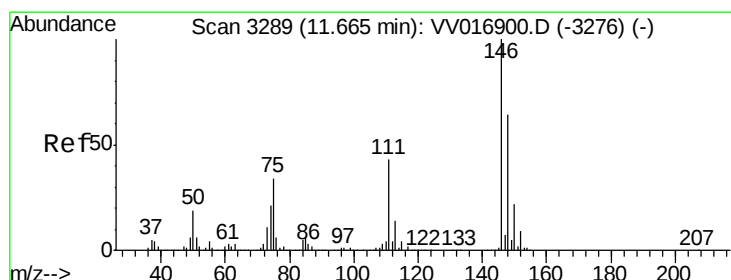
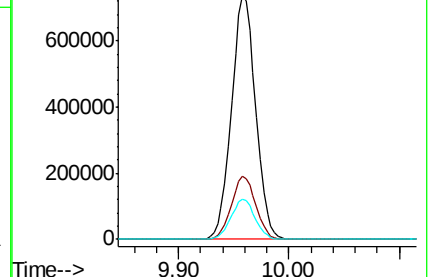
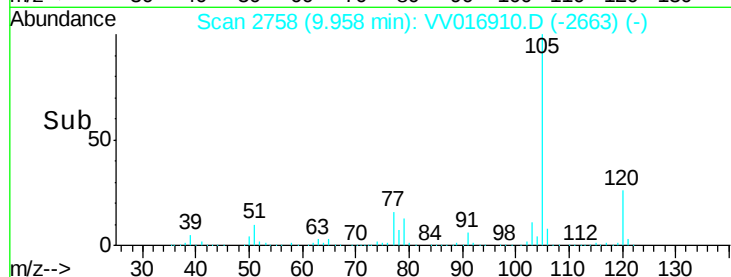
77 16.4 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#65

1,2-Dichlorobenzene

Concen: 5.037 ug/L

RT: 11.67 min Scan# 3290

Delta R.T. 0.00 min

Lab File: VV016910.D

Acq: 13 Jun 2020 04:29

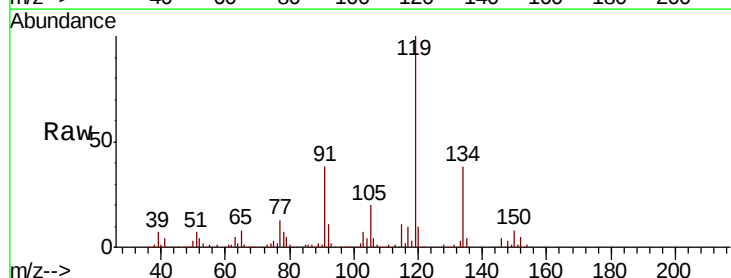
Tgt Ion:146 Resp: 28110

Ion Ratio Lower Upper

146 100

111 37.3 33.7 50.5

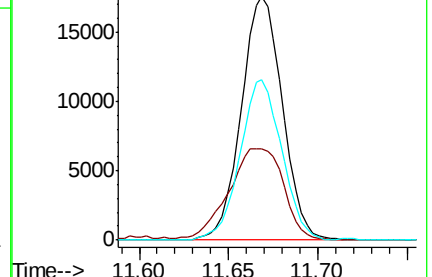
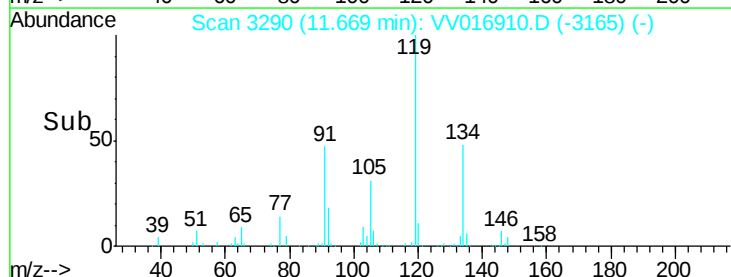
148 66.0 50.7 76.1

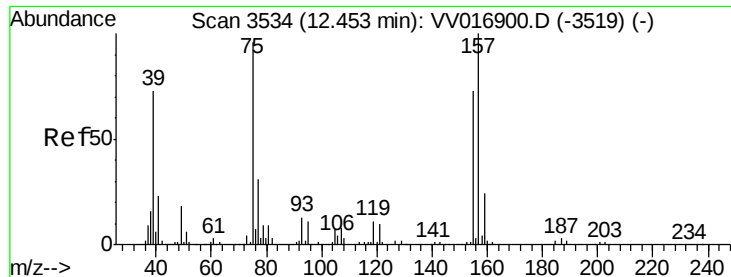


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

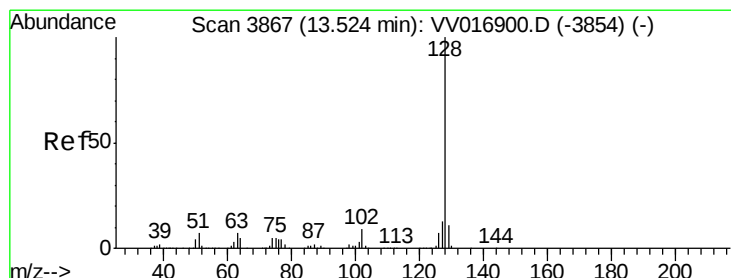
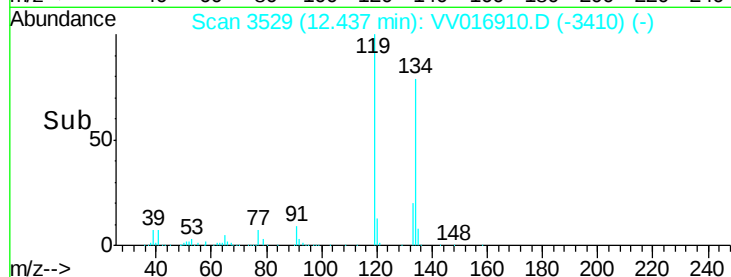
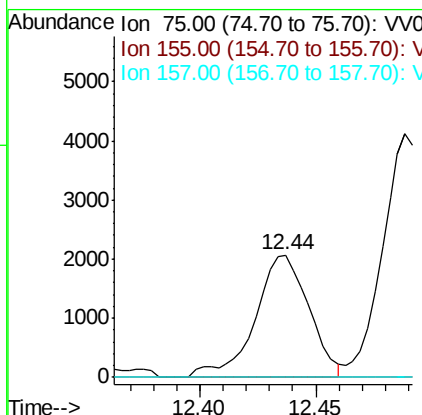
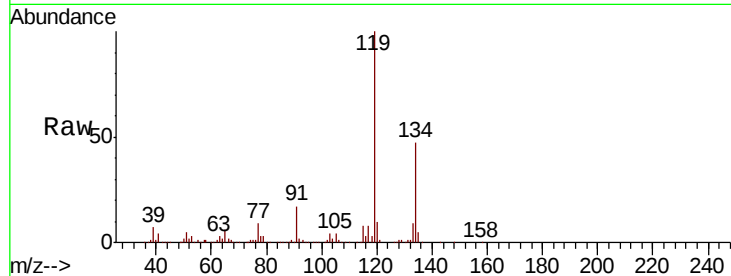




#66
 1,2-Dibromo-3-chloropropane
 Concen: 3.796 ug/L
 RT: 12.44 min Scan# 3529
 Delta R.T. -0.02 min
 Lab File: VV016910.D
 Acq: 13 Jun 2020 04:29

Instrument :
 MSVOA_V
 ClientSampled :
 E3YG8

Tot Ion: 75 Resp: 3331
 Ion Ratio Lower Upper
 75 100
 155 0.0 69.8 104.6#
 157 0.0 83.4 125.2#



#69
 Naphthalene
 Concen: 89.365 ug/L
 RT: 13.53 min Scan# 3868
 Delta R.T. 0.00 min
 Lab File: VV016910.D
 Acq: 13 Jun 2020 04:29

Tgt Ion: 128 Resp: 979200
 Ion Ratio Lower Upper
 128 100
 127 13.3 10.5 15.7
 129 10.9 8.7 13.1

