

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052820\
 Data File : VV016311.D
 Acq On : 29 May 2020 05:57
 Operator : SY/MD
 Sample : L2662-14
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 29 06:34:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri May 29 04:21:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	119573	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	114236	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	60190	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	29780	3.88	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	77.60%
7) Chloroethane-d5	1.58	69	23080	3.42	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	68.40%
11) 1,1-Dichloroethene-d2	2.13	63	43795	3.04	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	60.80%
20) 2-Butanone-d5	3.94	46	92016	48.30	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.60%
24) Chloroform-d	4.38	84	63108	4.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.60%
26) 1,2-Dichloroethane-d4	5.06	65	34655	4.28	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	85.60%
32) Benzene-d6	5.07	84	130758	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.40%
36) 1,2-Dichloropropane-d6	6.10	67	39939	4.56	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	91.20%
41) Toluene-d8	7.34	98	121585	4.51	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.20%
45) trans-1,3-Dichloropropene-	7.65	79	13532	4.15	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	83.00%
48) 2-Hexanone-d5	8.12	63	77210	51.59	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	103.18%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	28682	4.43	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.60%
65) 1,2-Dichlorobenzene-d4	11.65	152	47531	4.73	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	4126	0.394	ug/L #	72
8) Chloroethane	1.32	64	1613	0.276	ug/L	93
12) 1,1-Dichloroethene	2.13	96	796	0.113	ug/L #	1
13) Acetone	2.23	43	22140	18.776	ug/L	96
14) Carbon disulfide	2.31	76	2677	0.122	ug/L #	83
15) Methyl Acetate	2.23	43	22139	7.348	ug/L #	53
22) cis-1,2-Dichloroethene	3.94	96	18055	1.978	ug/L	90
25) Chloroform	4.41	83	4083	0.263	ug/L	93
27) 1,2-Dichloroethane	5.12	62	1194	0.118	ug/L #	79
33) Benzene	5.13	78	120023	3.651	ug/L	100
34) Trichloroethene	5.94	95	74162	8.660	ug/L	96
35) Methylcyclohexane	6.10	83	9857	0.682	ug/L #	19
37) 1,2-Dichloropropane	6.10	63	4581	0.568	ug/L #	88
39) cis-1,3-Dichloropropene	7.01	75	1035	0.091	ug/L #	48
42) Toluene	7.41	91	431131	12.026	ug/L	99
43) 1,3,5-Trimethylbenzene	10.56	105	142223	4.358	ug/L	98
44) 1,2,4-Trimethylbenzene	10.94	105	308933	9.190	ug/L	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052820\
 Data File : VV016311.D
 Acq On : 29 May 2020 05:57
 Operator : SY/MD
 Sample : L2662-14
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 50 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 29 06:34:01 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri May 29 04:21:25 2020
 Response via : Initial Calibration

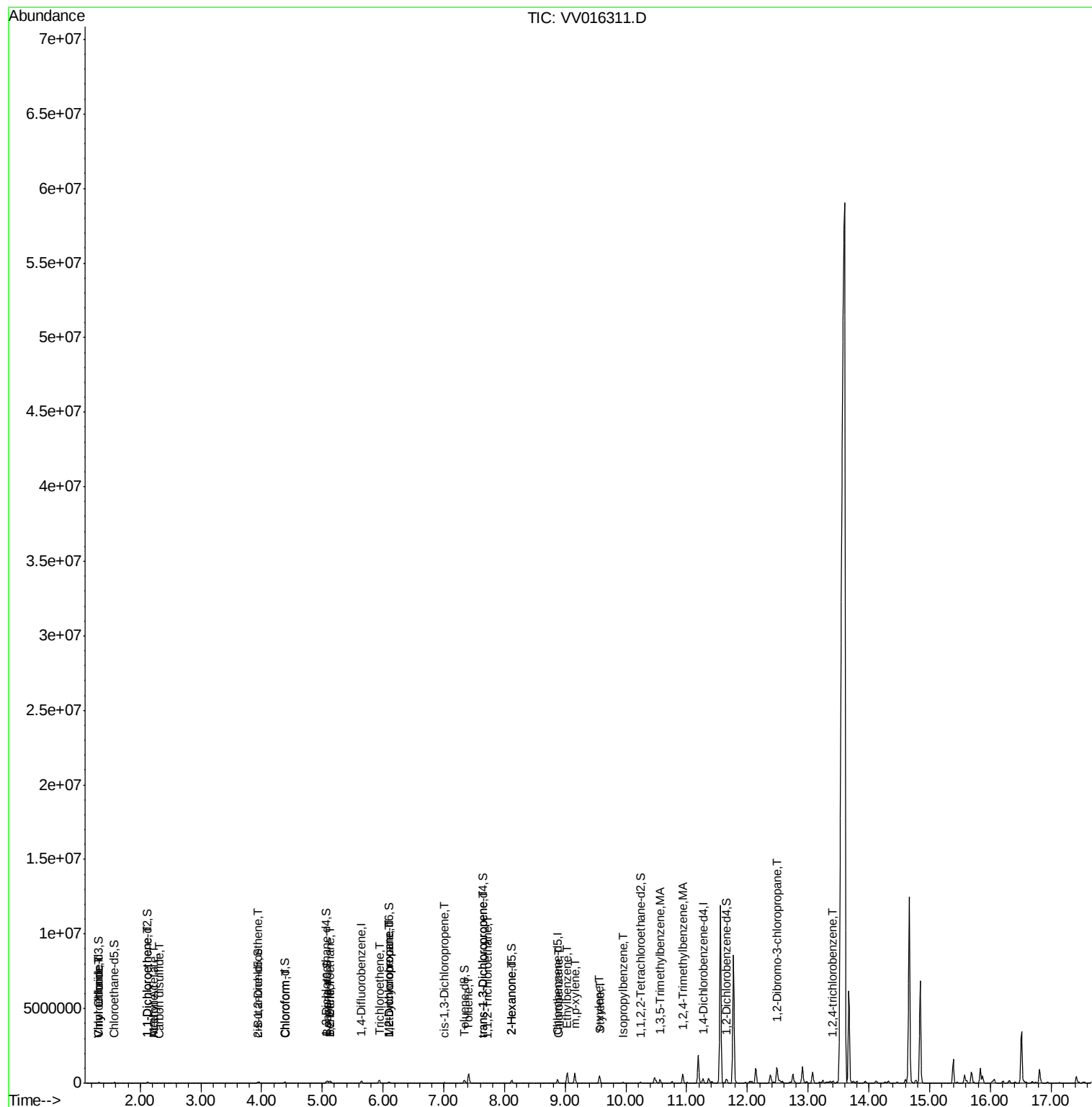
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
46) trans-1,3-Dichloropropene	7.65	75	559	0.059	ug/L #	69
47) 1,1,2-Trichloroethane	7.72	97	3392	0.640	ug/L #	18
50) 2-Hexanone	8.12	43	9897	2.829	ug/L #	75
53) Chlorobenzene	8.90	112	1672	0.075	ug/L #	83
54) Ethylbenzene	9.03	91	466432	11.672	ug/L	100
55) m,p-xylene	9.16	106	175420	11.707	ug/L	98
56) o-xylene	9.57	106	119267	8.352	ug/L	96
57) Styrene	9.58	104	27375	1.152	ug/L #	78
58) Isopropylbenzene	9.95	105	30288	0.774	ug/L	98
67) 1,2-Dibromo-3-chloropropan	12.49	75	23906	21.316	ug/L #	9
69) 1,2,4-trichlorobenzene	13.39	180	2039	0.179	ug/L #	1

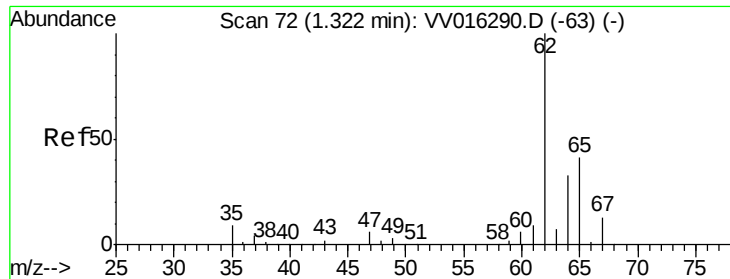
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052820\
Data File : VV016311.D
Acq On : 29 May 2020 05:57
Operator : SY/MD
Sample : L2662-14
Misc : 25.0mL/MSVOA V/WATER
ALS Vial : 50 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :

Quant Time: May 29 06:34:01 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 29 04:21:25 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.394 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV016311.D

Acq: 29 May 2020 05:57

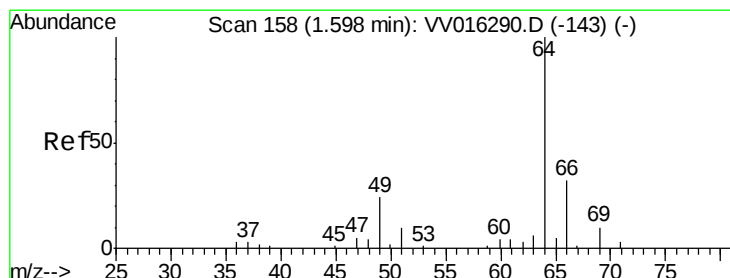
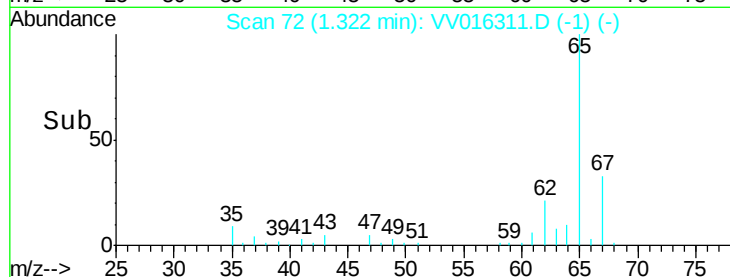
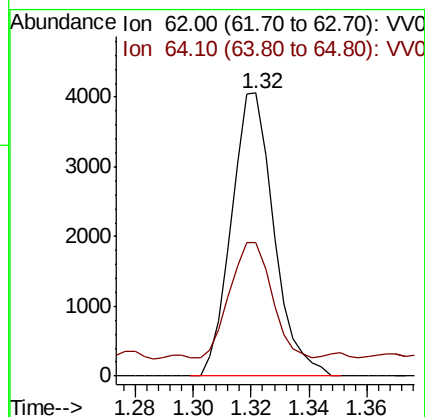
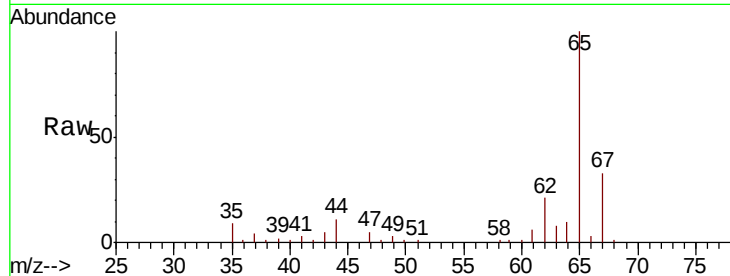
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 4126

Ion Ratio Lower Upper

62 100

64 47.1 22.1 41.1#



#8

Chloroethane

Concen: 0.276 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.28 min

Lab File: VV016311.D

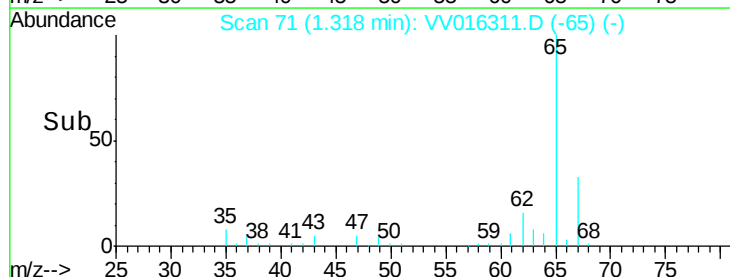
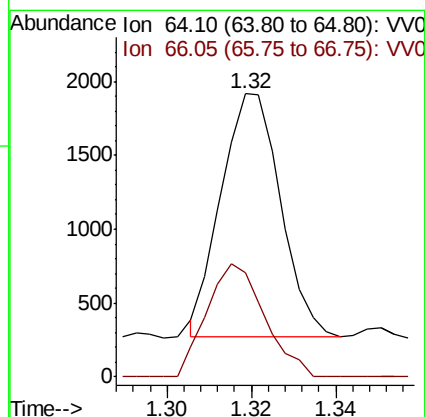
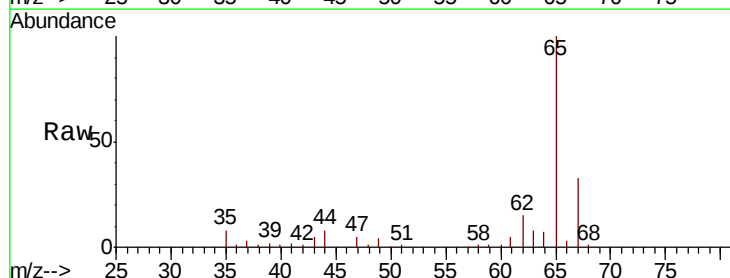
Acq: 29 May 2020 05:57

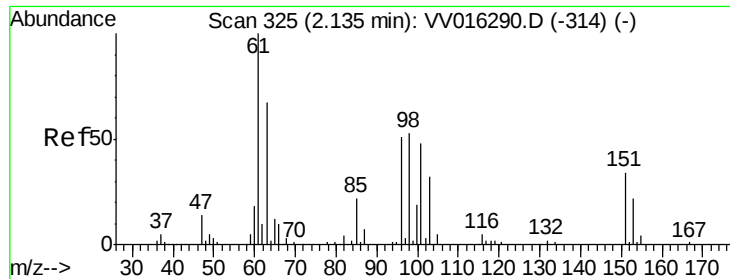
Tgt Ion: 64 Resp: 1613

Ion Ratio Lower Upper

64 100

66 36.6 22.9 42.5





#12

1,1-Dichloroethene

Concen: 0.113 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV016311.D

Acq: 29 May 2020 05:57

Instrument :
MSVOA_V
ClientSampleId :

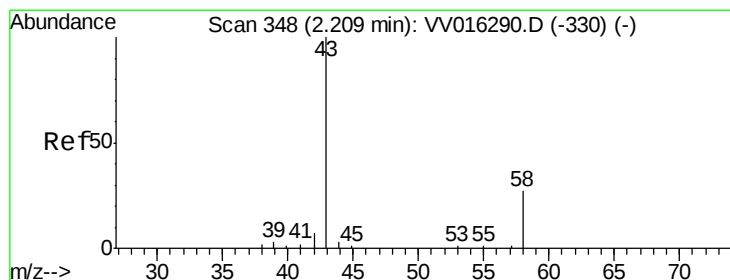
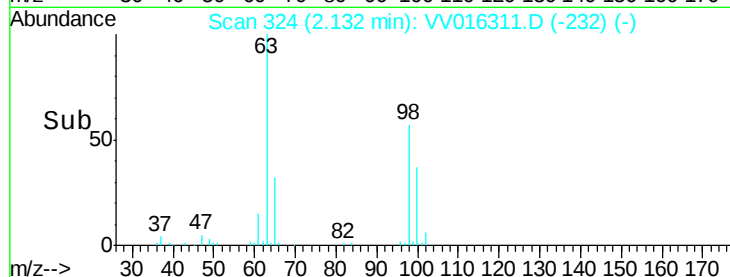
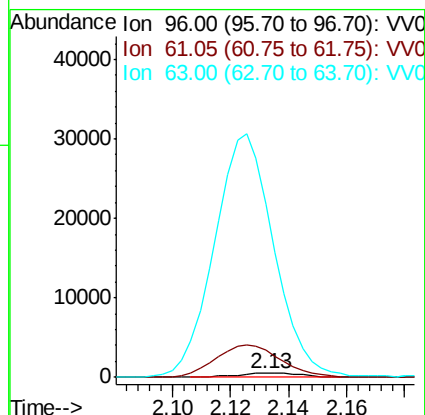
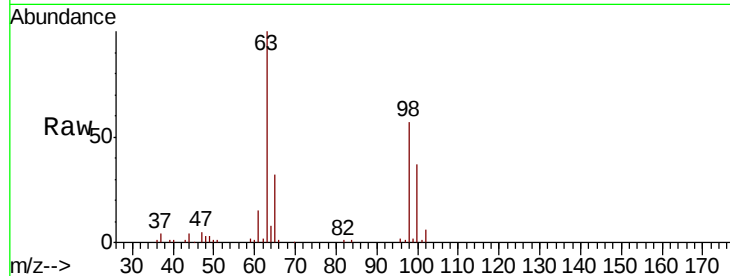
Tot Ion: 96 Resp: 796

Ion Ratio Lower Upper

96 100

61 654.7 124.9 231.9#

63 4253.7 80.4 149.2#



#13

Acetone

Concen: 18.776 ug/L

RT: 2.23 min Scan# 353

Delta R.T. 0.02 min

Lab File: VV016311.D

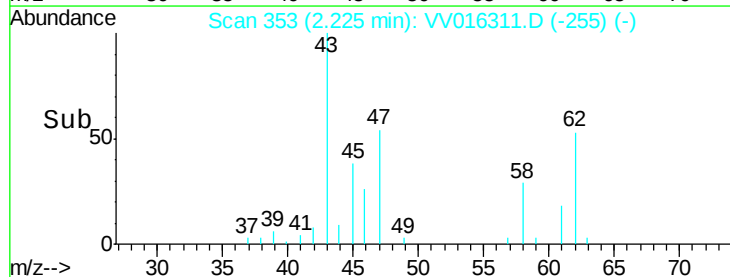
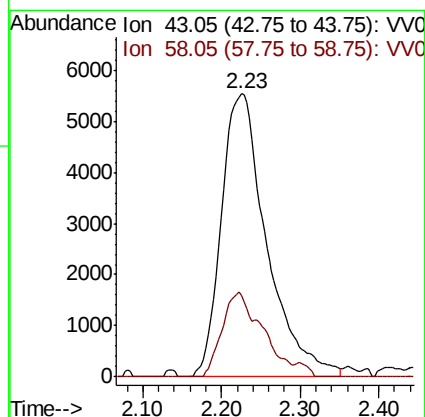
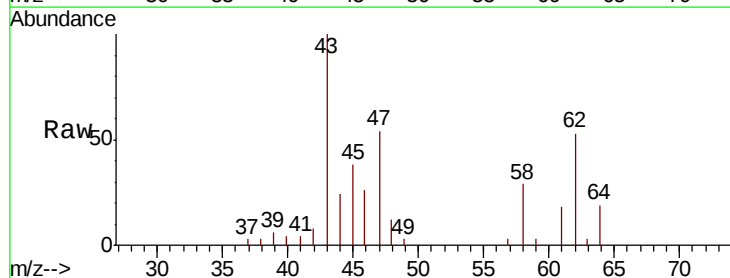
Acq: 29 May 2020 05:57

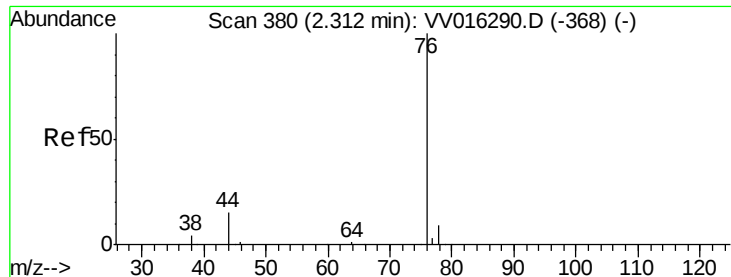
Tgt Ion: 43 Resp: 22140

Ion Ratio Lower Upper

43 100

58 26.6 0.0 48.8





#14

Carbon disulfide

Concen: 0.122 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV016311.D

Acq: 29 May 2020 05:57

Instrument :

MSVOA_V

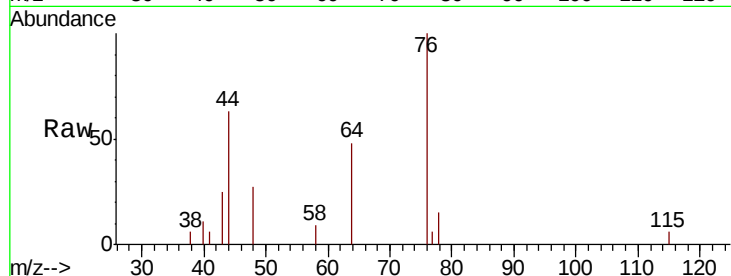
ClientSampled :

Tot Ion: 76 Resp: 2677

Ion Ratio Lower Upper

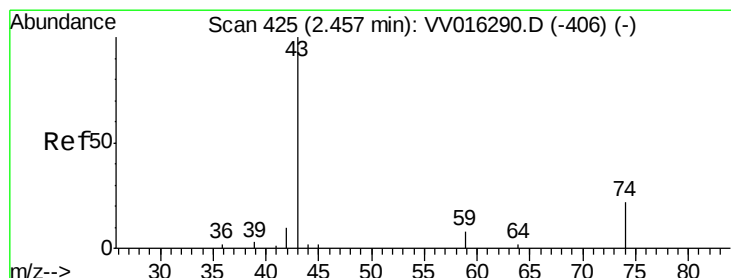
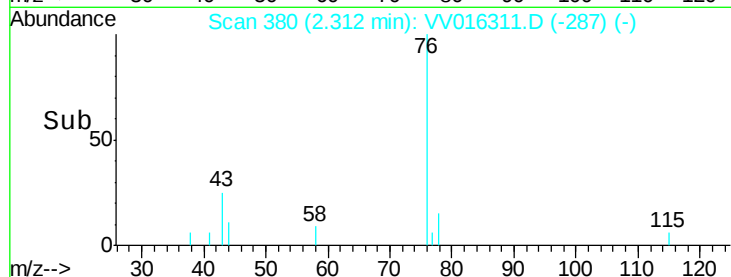
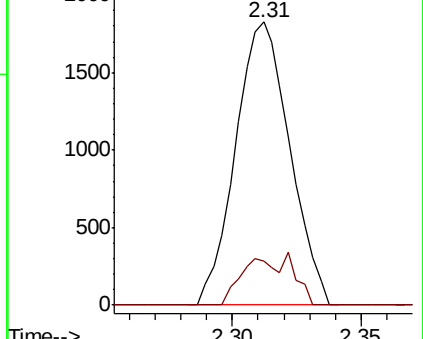
76 100

78 15.5 7.4 11.0#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0



#15

Methyl Acetate

Concen: 7.348 ug/L

RT: 2.23 min Scan# 353

Delta R.T. -0.23 min

Lab File: VV016311.D

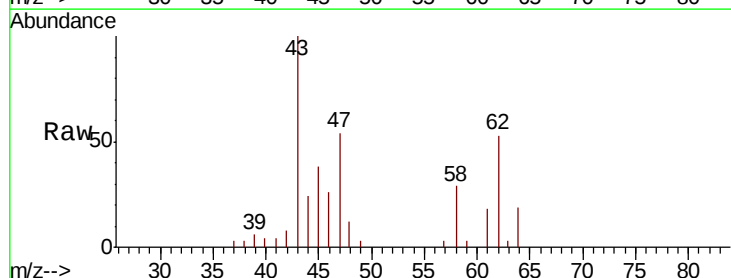
Acq: 29 May 2020 05:57

Tgt Ion: 43 Resp: 22139

Ion Ratio Lower Upper

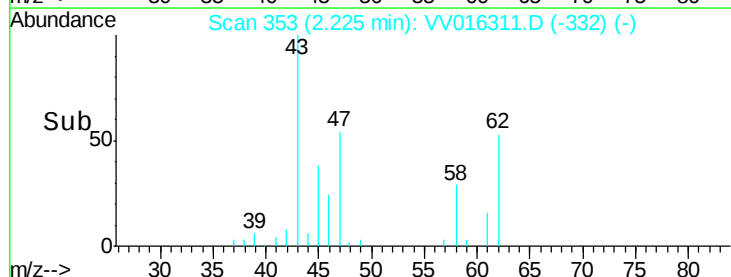
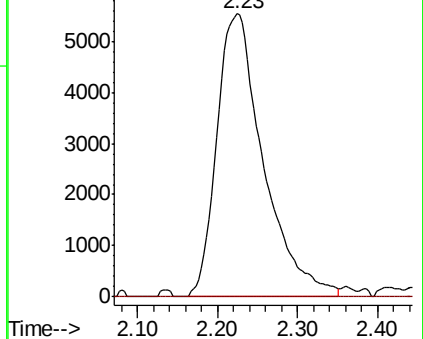
43 100

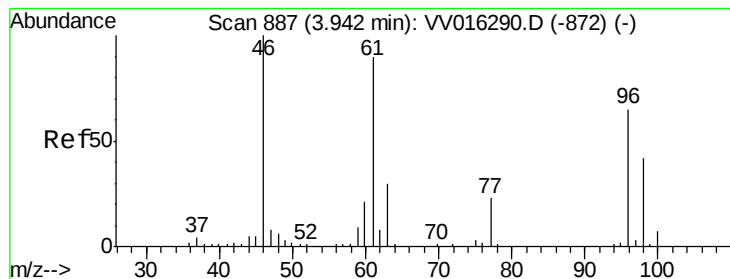
74 0.0 18.1 27.1#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0



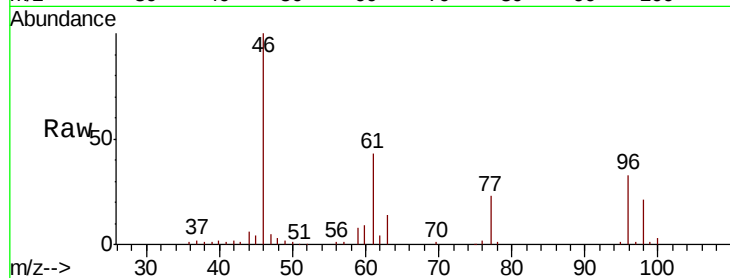


#22

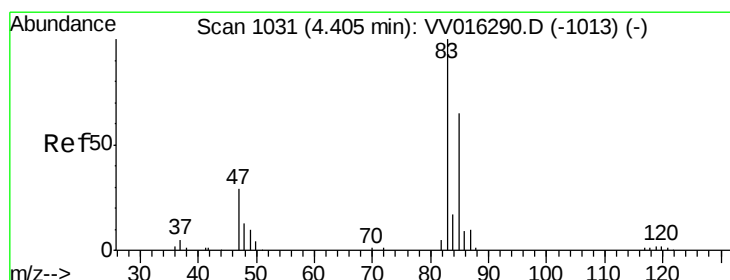
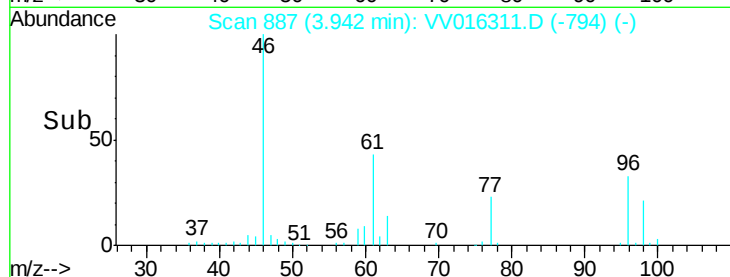
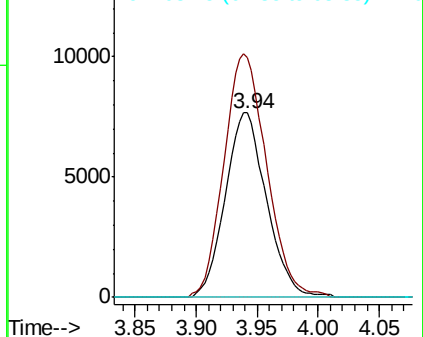
cis-1,2-Dichloroethene
 Concen: 1.978 ug/L
 RT: 3.94 min Scan# 887
 Delta R.T. -0.00 min
 Lab File: VV016311.D
 Acq: 29 May 2020 05:57

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 96 Resp: 18055
 Ion Ratio Lower Upper
 96 100
 61 129.8 99.7 185.1
 68 0.0 0.0 0.0



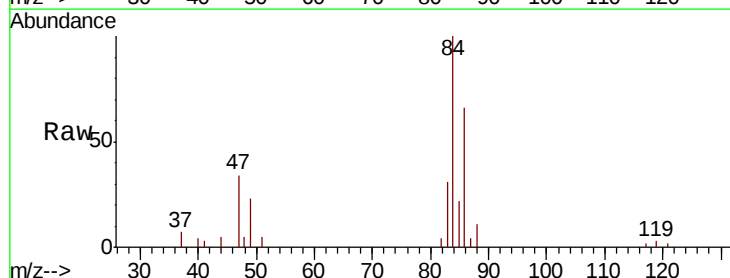
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



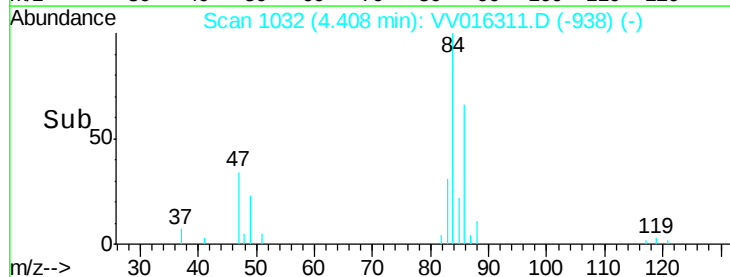
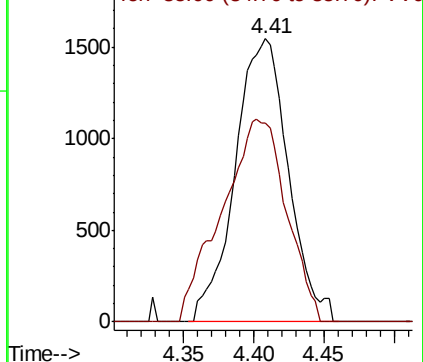
#25

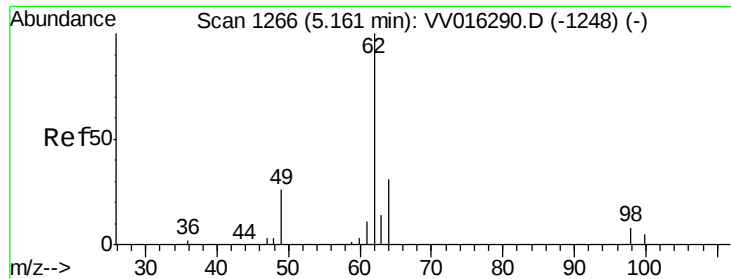
Chloroform
 Concen: 0.263 ug/L
 RT: 4.41 min Scan# 1032
 Delta R.T. 0.00 min
 Lab File: VV016311.D
 Acq: 29 May 2020 05:57

Tgt Ion: 83 Resp: 4083
 Ion Ratio Lower Upper
 83 100
 85 70.2 45.1 83.7



Abundance Ion 83.05 (82.75 to 83.75): VV0
 Ion 85.00 (84.70 to 85.70): VV0

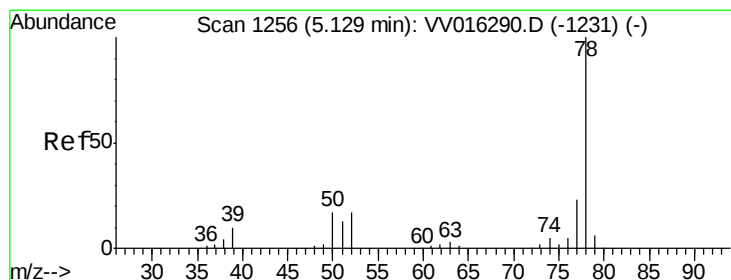
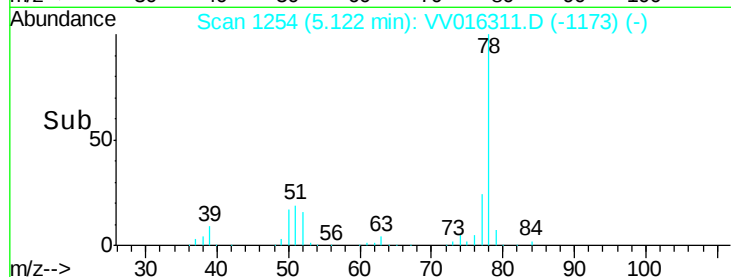
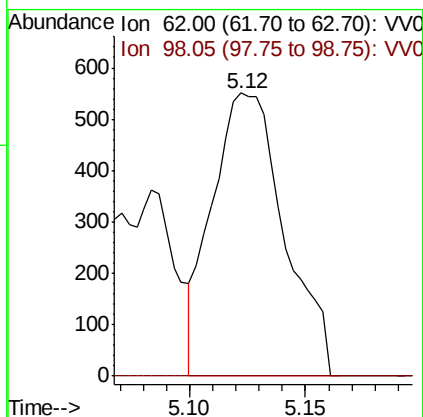
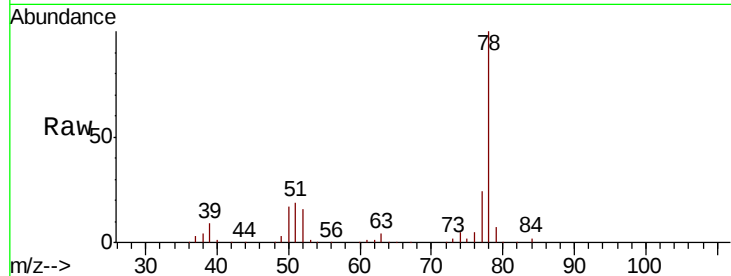




#27
 1,2-Dichloroethane
 Concen: 0.118 ug/L
 RT: 5.12 min Scan# 1254
 Delta R.T. -0.04 min
 Lab File: VV016311.D
 Acq: 29 May 2020 05:57

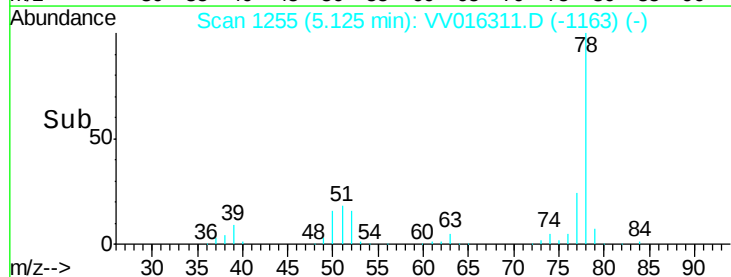
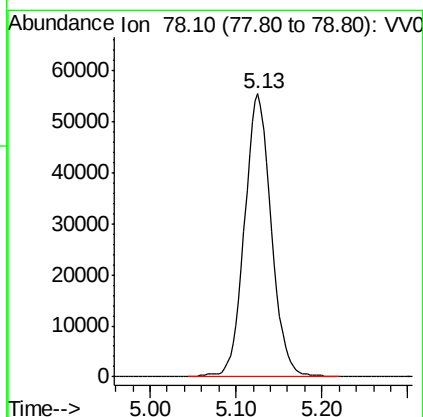
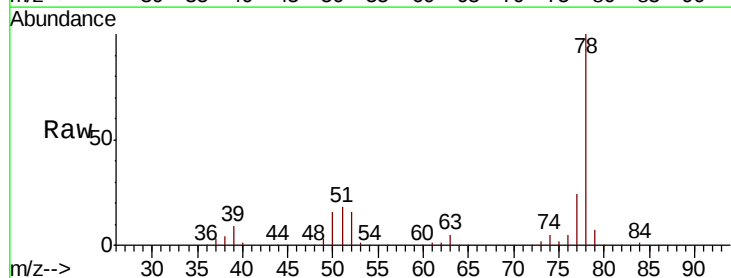
Instrument :
 MSVOA_V
 ClientSampled :

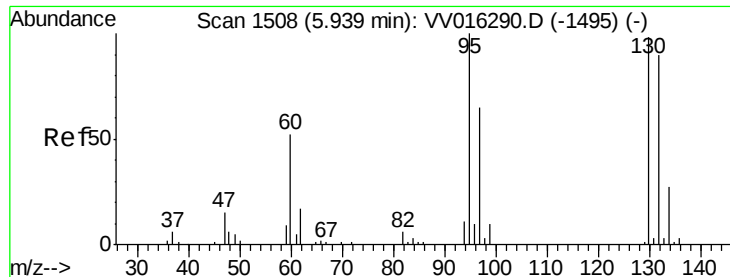
Tot Ion: 62 Resp: 1194
 Ion Ratio Lower Upper
 62 100
 98 0.0 5.7 8.5#



#33
 Benzene
 Concen: 3.651 ug/L
 RT: 5.13 min Scan# 1255
 Delta R.T. -0.00 min
 Lab File: VV016311.D
 Acq: 29 May 2020 05:57

Tgt Ion: 78 Resp: 120023





#34

Trichloroethene

Concen: 8.660 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. -0.00 min

Lab File: VV016311.D

Acq: 29 May 2020 05:57

Instrument :

MSVOA_V

ClientSampled :

Tot Ion: 95 Resp: 74162

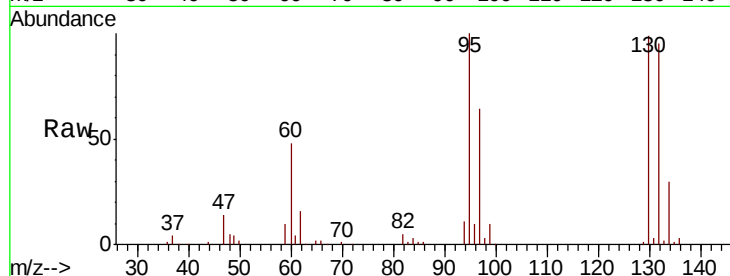
Ion Ratio Lower Upper

95 100

97 64.4 43.6 81.0

132 95.0 63.9 118.7

130 98.8 65.2 121.0

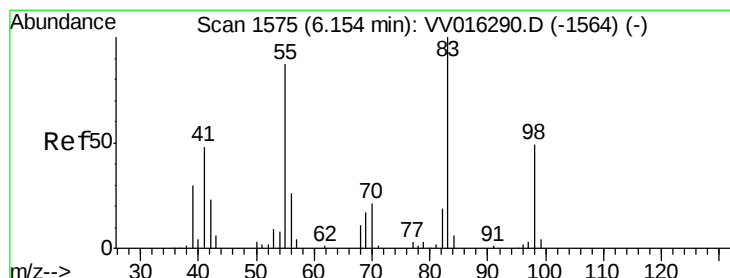
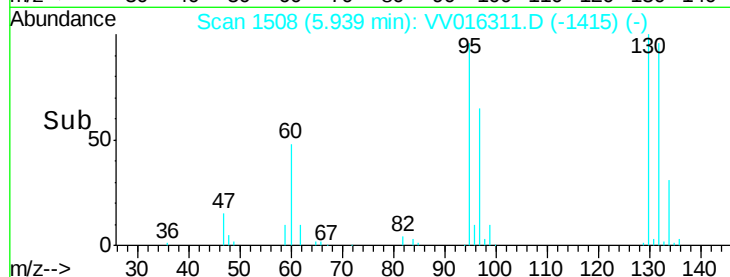
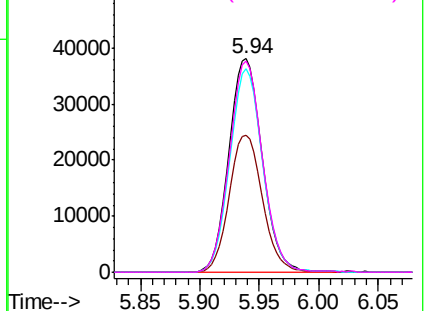


Abundance Ion 95.00 (94.70 to 95.70): VV0

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: 0.682 ug/L

RT: 6.10 min Scan# 1557

Delta R.T. -0.06 min

Lab File: VV016311.D

Acq: 29 May 2020 05:57

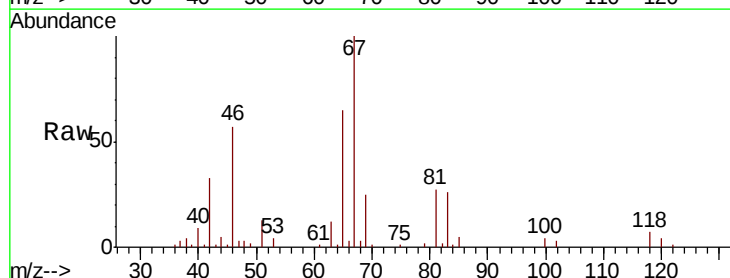
Tgt Ion: 83 Resp: 9857

Ion Ratio Lower Upper

83 100

55 3.5 65.4 98.0#

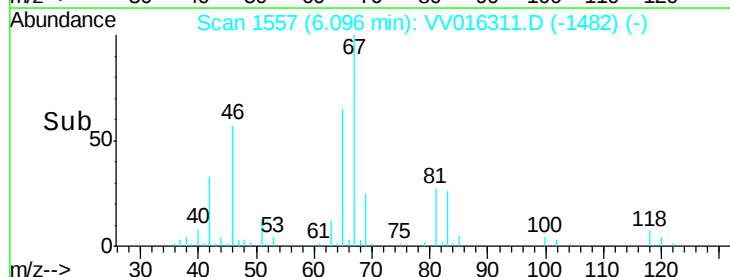
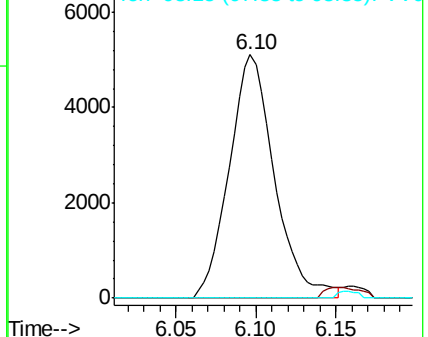
98 1.2 39.3 58.9#

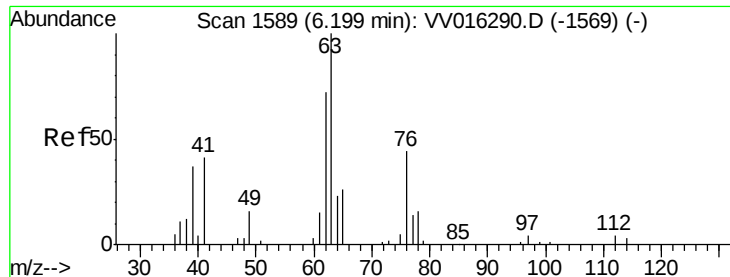


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

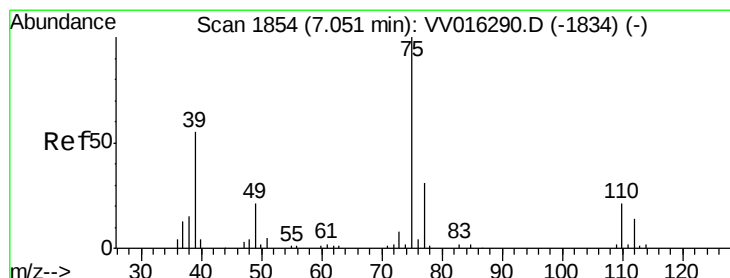
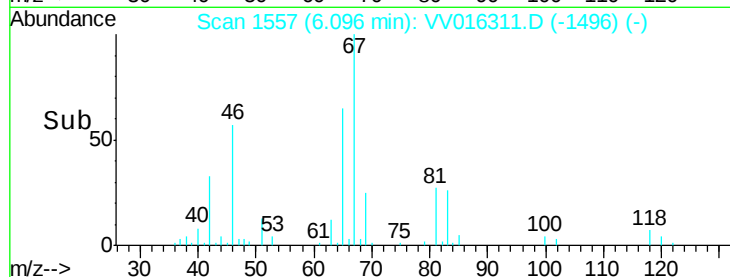
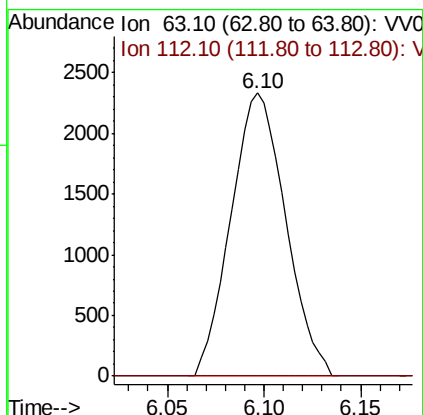
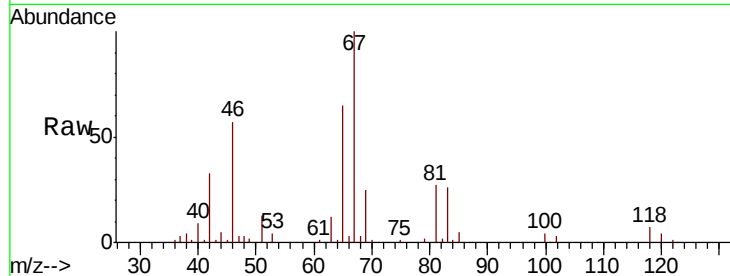




#37
 1,2-Dichloropropane
 Concen: 0.568 ug/L
 RT: 6.10 min Scan# 1557
 Delta R.T. -0.10 min
 Lab File: VV016311.D
 Acq: 29 May 2020 05:57

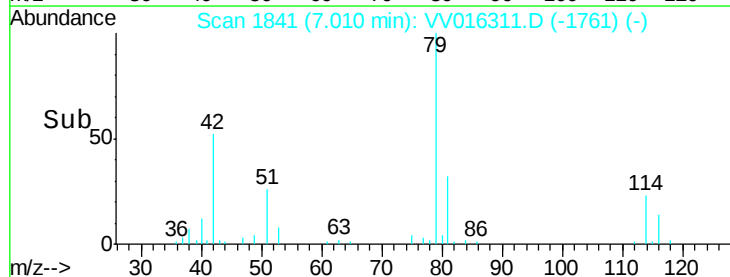
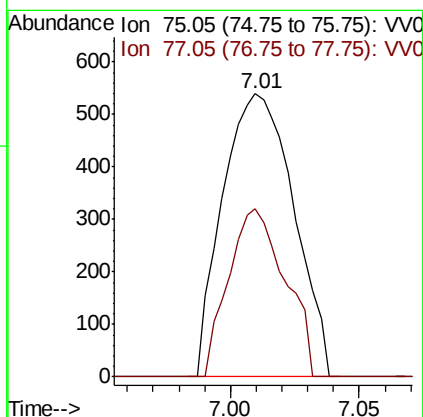
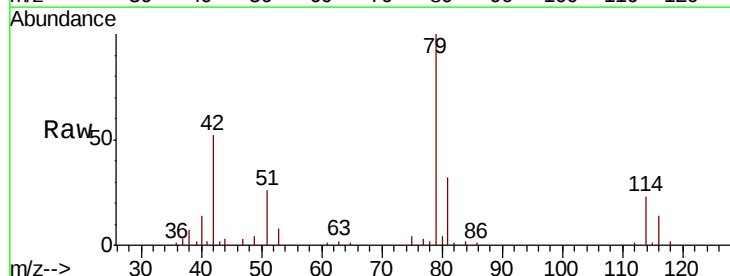
Instrument :
 MSVOA_V
 ClientSampled :

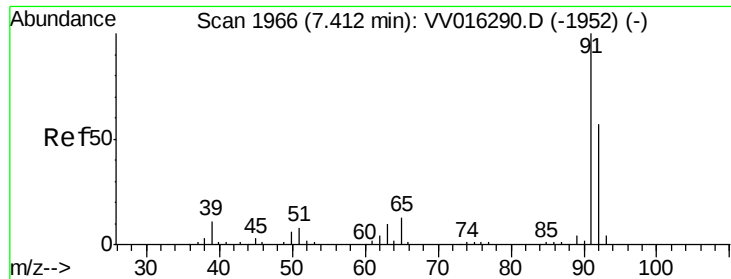
Tot Ion: 63 Resp: 4581
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#



#39
 cis-1,3-Dichloropropene
 Concen: 0.091 ug/L
 RT: 7.01 min Scan# 1841
 Delta R.T. -0.04 min
 Lab File: VV016311.D
 Acq: 29 May 2020 05:57

Tgt Ion: 75 Resp: 1035
 Ion Ratio Lower Upper
 75 100
 77 59.6 21.7 40.3#





#42

Toluene

Concen: 12.026 ug/L

RT: 7.41 min Scan# 1965

Delta R.T. -0.00 min

Lab File: VV016311.D

Acq: 29 May 2020 05:57

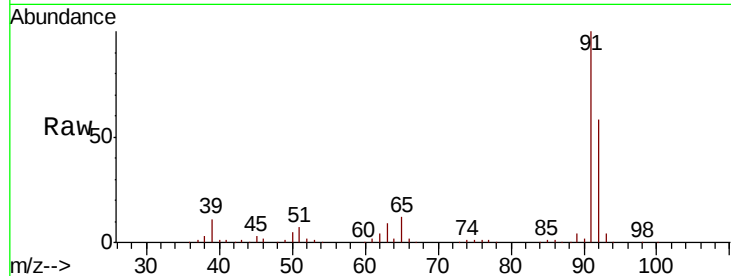
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 431131

Ion Ratio Lower Upper

91 100

92 58.1 40.9 76.0



Abundance Ion 91.15 (90.85 to 91.85): VV016290.D (-1952) (-)

Ion 92.15 (91.85 to 92.85): VV016290.D (-1952) (-)

7.41

250000

200000

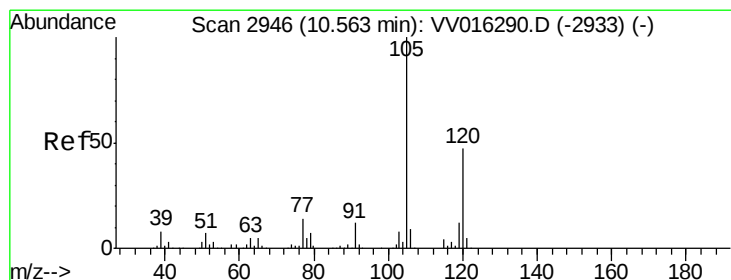
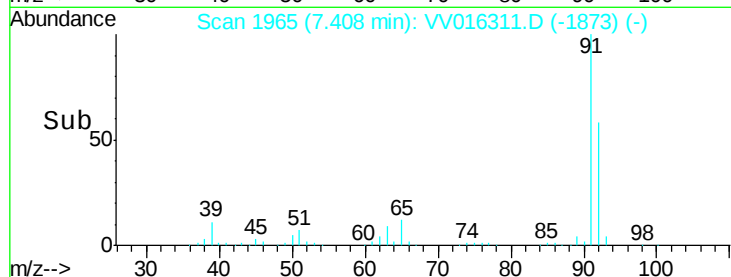
150000

100000

50000

0

Time--> 7.30 7.40 7.50



#43

1,3,5-Trimethylbenzene

Concen: 4.358 ug/L

RT: 10.56 min Scan# 2946

Delta R.T. -0.00 min

Lab File: VV016311.D

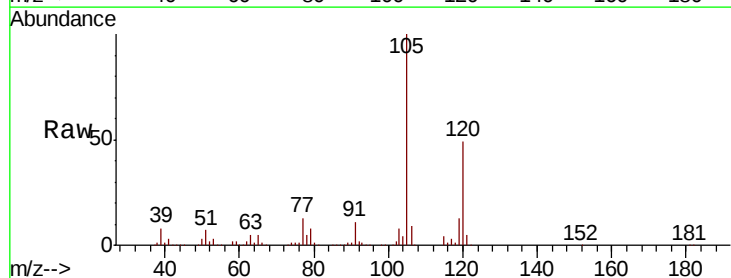
Acq: 29 May 2020 05:57

Tgt Ion:105 Resp: 142223

Ion Ratio Lower Upper

105 100

120 48.2 37.4 56.0



Abundance Ion 105.00 (104.70 to 105.70): VV016290.D (-2933) (-)

Ion 120.00 (119.70 to 120.70): VV016290.D (-2933) (-)

10.56

100000

80000

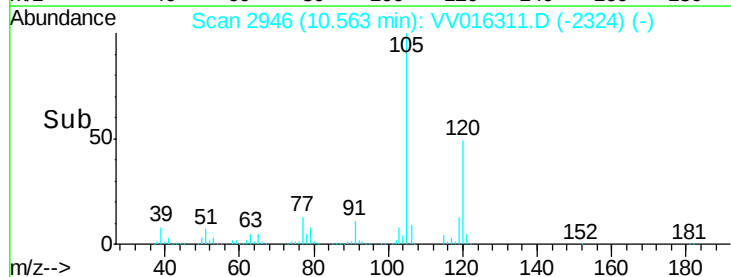
60000

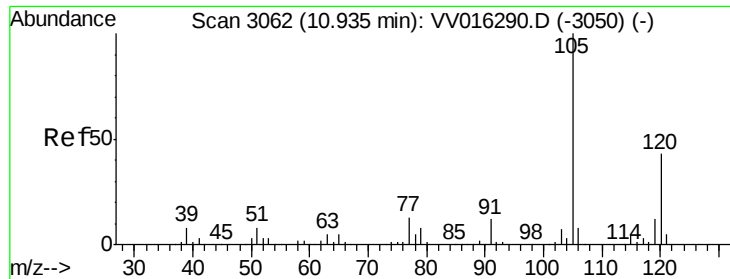
40000

20000

0

Time--> 10.50 10.55 10.60

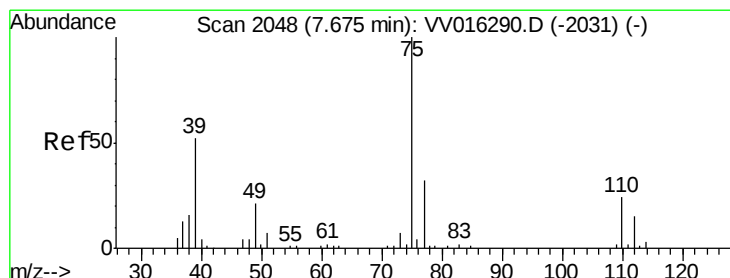
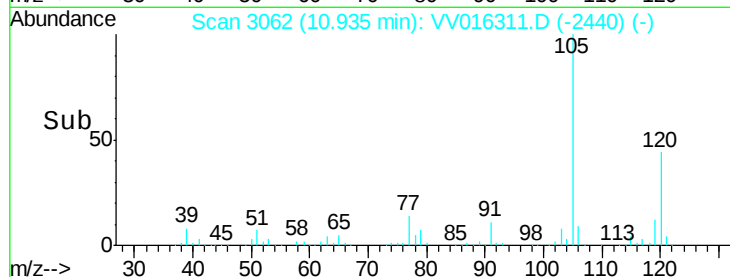
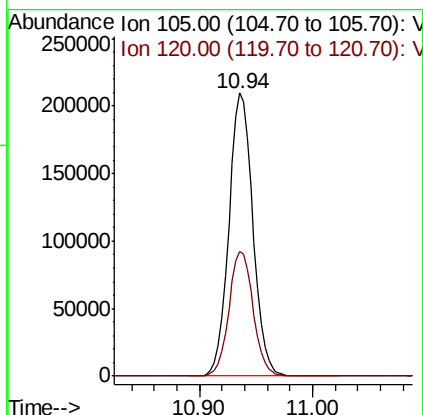
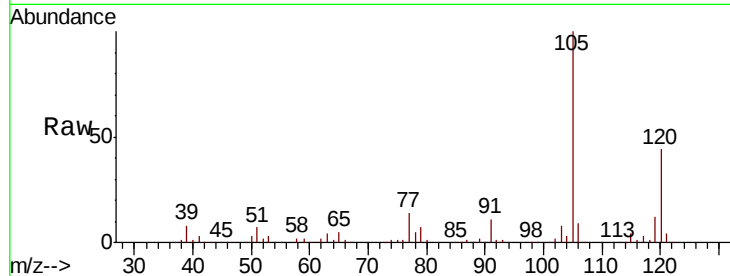




#44
 1,2,4-Trimethylbenzene
 Concen: 9.190 ug/L
 RT: 10.94 min Scan# 3062
 Delta R.T. -0.00 min
 Lab File: VV016311.D
 Acq: 29 May 2020 05:57

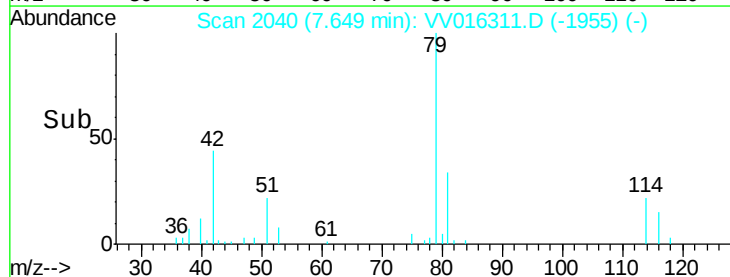
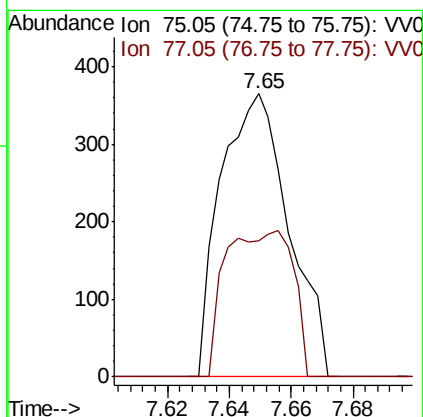
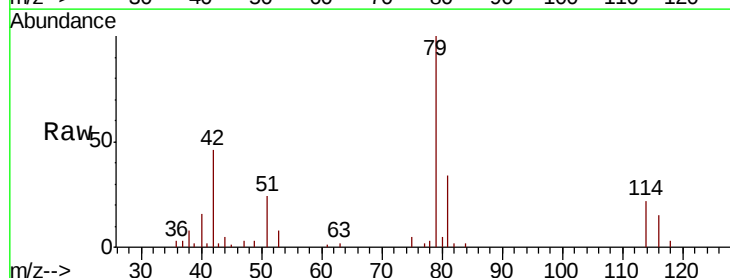
Instrument :
 MSVOA_V
 ClientSampleID :

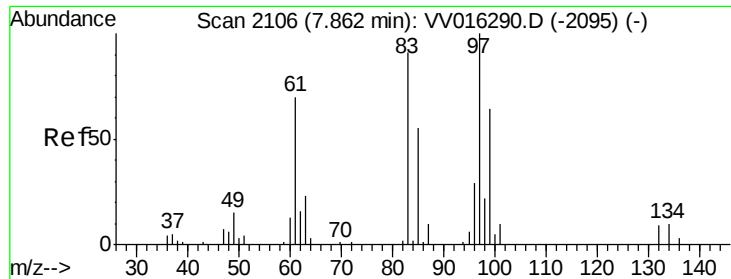
Tot Ion:105 Resp: 308933
 Ion Ratio Lower Upper
 105 100
 120 44.5 34.6 52.0



#46
 trans-1,3-Dichloropropene
 Concen: 0.059 ug/L
 RT: 7.65 min Scan# 2040
 Delta R.T. -0.03 min
 Lab File: VV016311.D
 Acq: 29 May 2020 05:57

Tgt Ion: 75 Resp: 559
 Ion Ratio Lower Upper
 75 100
 77 47.9 21.7 40.3#

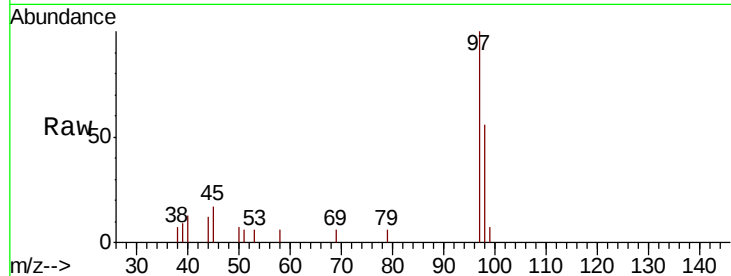




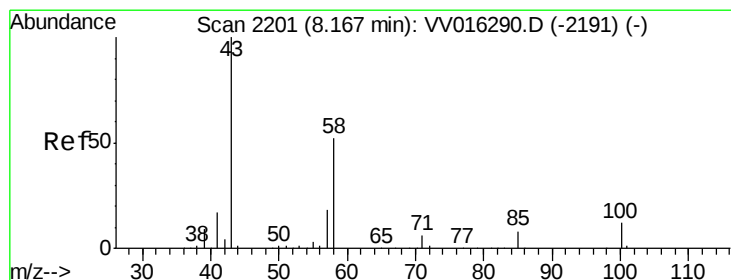
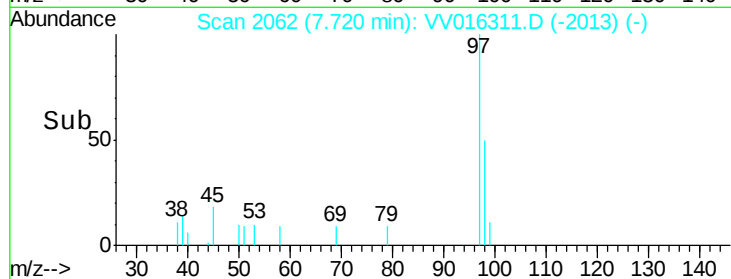
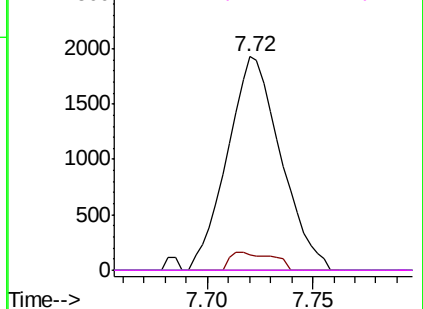
#47
 1,1,2-Trichloroethane
 Concen: 0.640 ug/L
 RT: 7.72 min Scan# 2062
 Delta R.T. -0.14 min
 Lab File: VV016311.D
 Acq: 29 May 2020 05:57

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:	97	Resp:	3392
Ion	Ratio	Lower	Upper
97	100		
99	7.4	40.8	75.8#
83	0.0	60.0	111.4#
85	0.0	39.3	73.1#

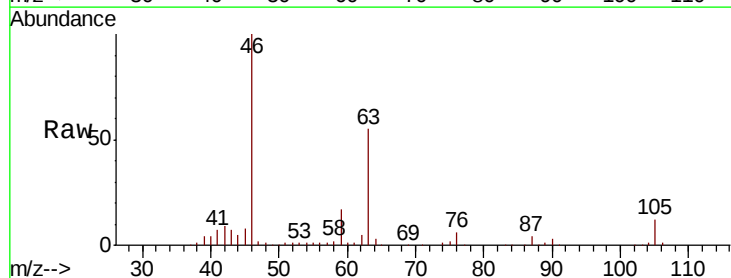


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

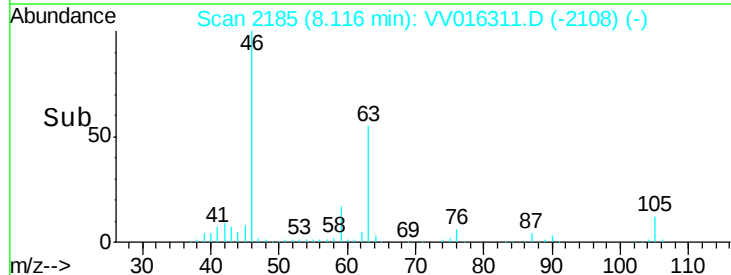
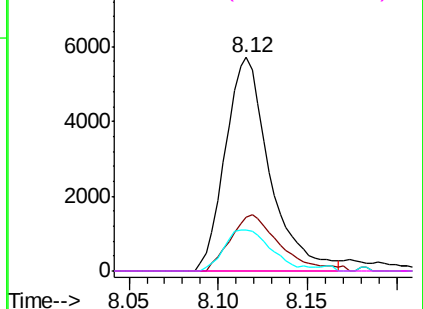


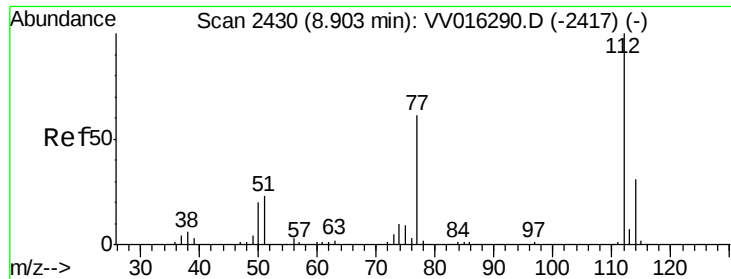
#50
 2-Hexanone
 Concen: 2.829 ug/L
 RT: 8.12 min Scan# 2185
 Delta R.T. -0.05 min
 Lab File: VV016311.D
 Acq: 29 May 2020 05:57

Tgt Ion:	43	Resp:	9897
Ion	Ratio	Lower	Upper
43	100		
58	29.2	41.4	62.0#
57	20.8	15.0	22.4
100	0.0	9.0	13.4#



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

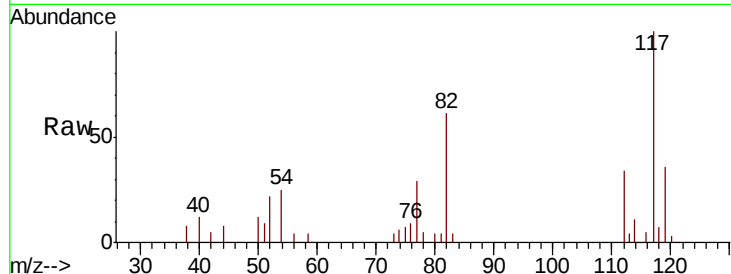




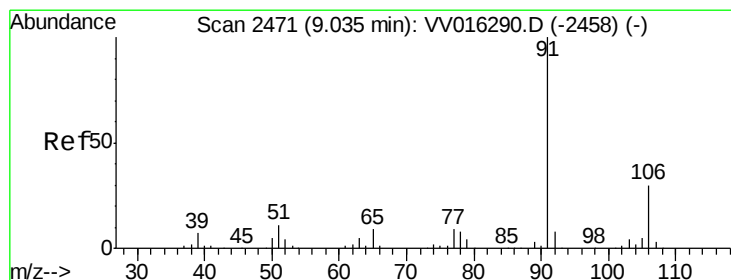
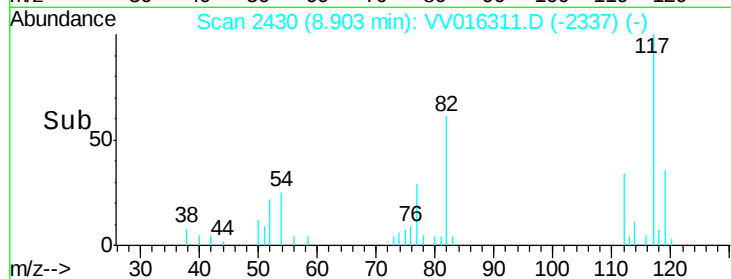
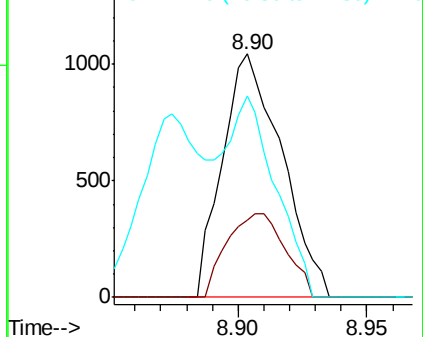
#53
Chlorobenzene
Concen: 0.075 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. -0.00 min
Lab File: VV016311.D
Acq: 29 May 2020 05:57

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:112 Resp: 1672
Ion Ratio Lower Upper
112 100
114 31.7 22.3 41.3
77 82.8 50.7 76.1#

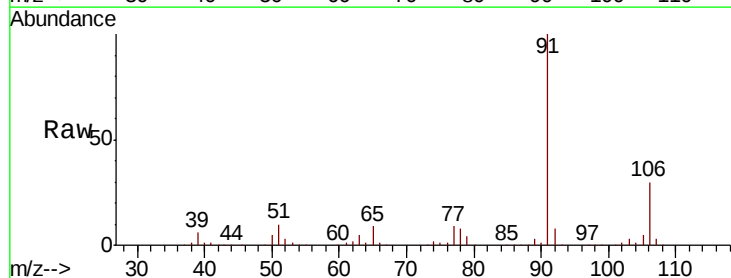


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

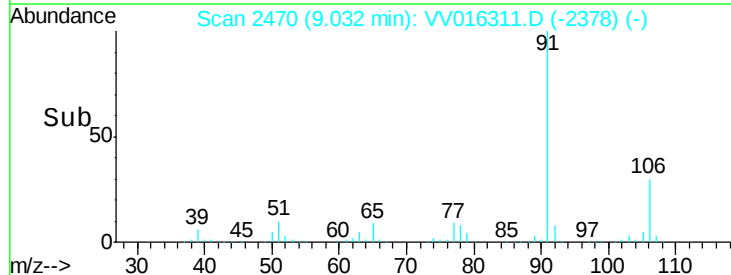
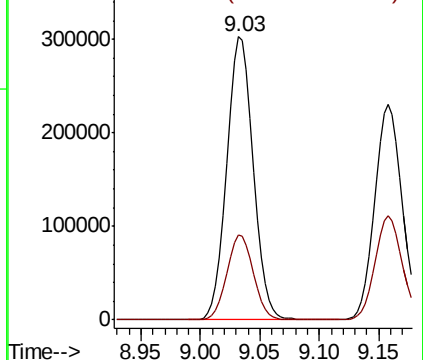


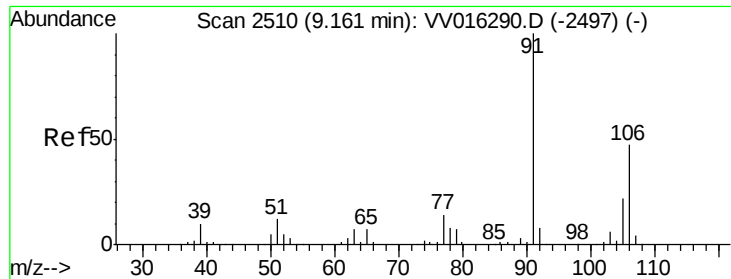
#54
Ethylbenzene
Concen: 11.672 ug/L
RT: 9.03 min Scan# 2470
Delta R.T. -0.00 min
Lab File: VV016311.D
Acq: 29 May 2020 05:57

Tgt Ion: 91 Resp: 466432
Ion Ratio Lower Upper
91 100
106 29.9 21.0 39.0



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





#55

m,p-xylene

Concen: 11.707 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV016311.D

Acq: 29 May 2020 05:57

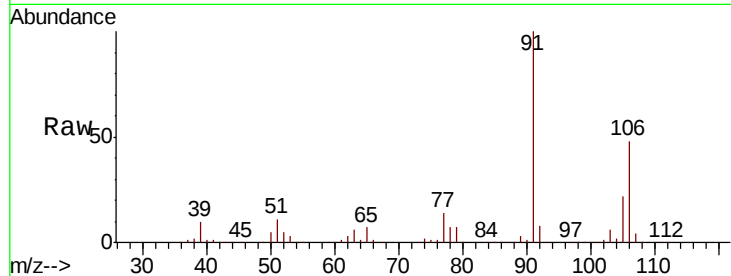
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 175420

Ion Ratio Lower Upper

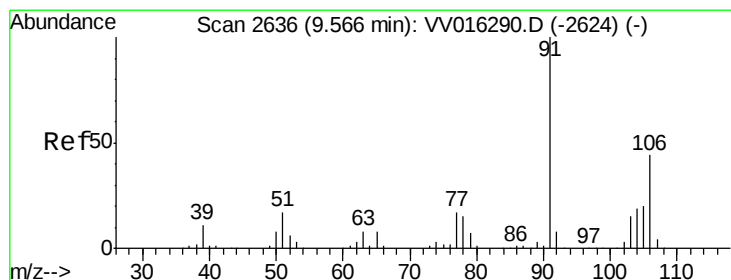
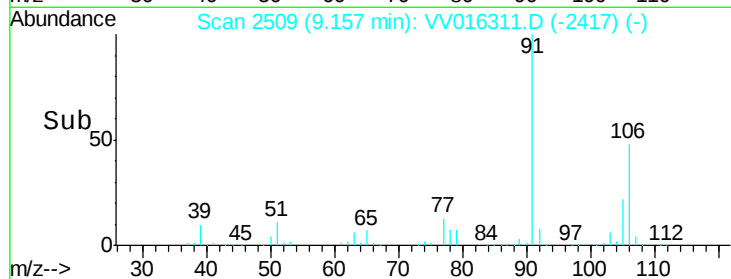
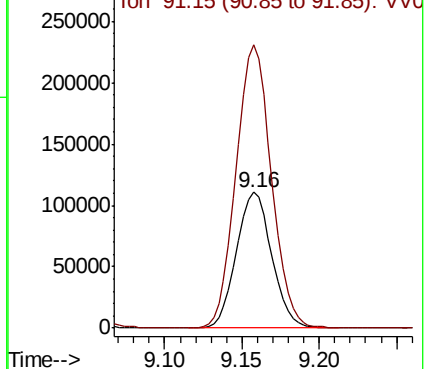
106 100

91 208.0 148.1 275.0



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#56

o-xylene

Concen: 8.352 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. -0.00 min

Lab File: VV016311.D

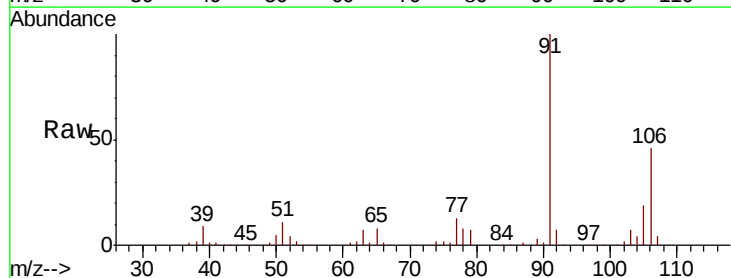
Acq: 29 May 2020 05:57

Tgt Ion:106 Resp: 119267

Ion Ratio Lower Upper

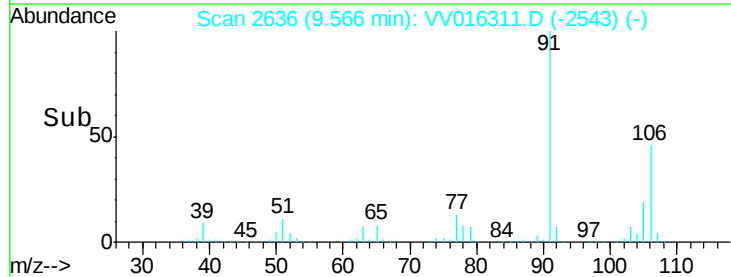
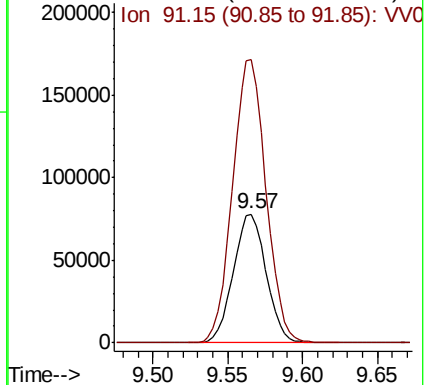
106 100

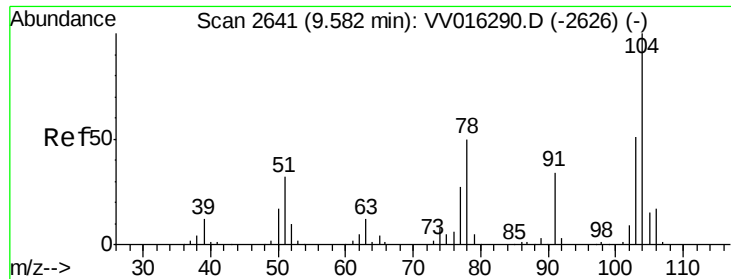
91 219.5 158.8 294.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0

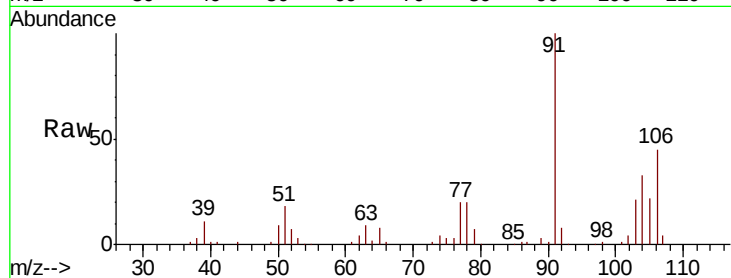




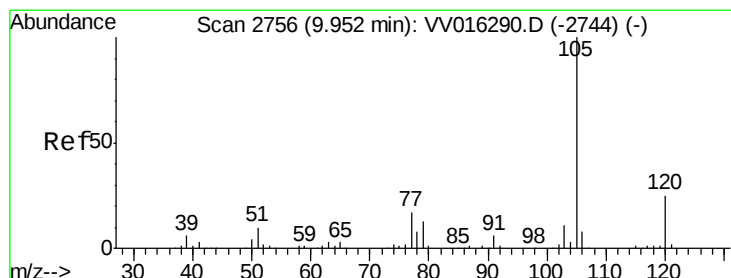
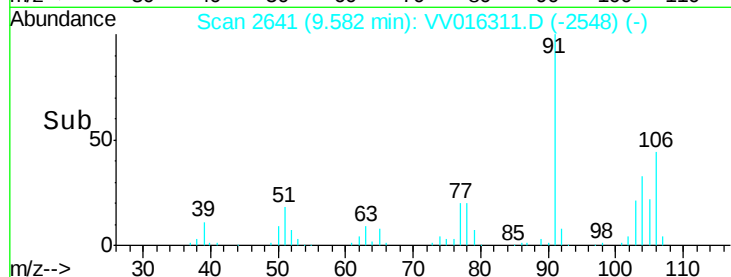
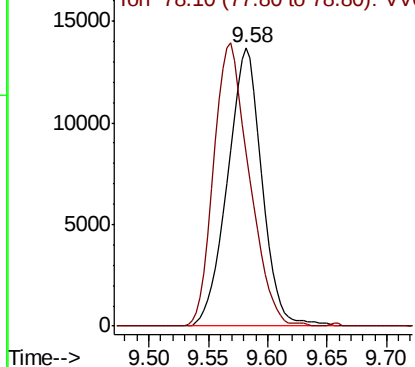
#57
Stvrene
Concen: 1.152 ug/L
RT: 9.58 min Scan# 2641
Delta R.T. -0.00 min
Lab File: VV016311.D
Acq: 29 May 2020 05:57

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:104 Resp: 27375
Ion Ratio Lower Upper
104 100
78 62.3 33.2 61.7#

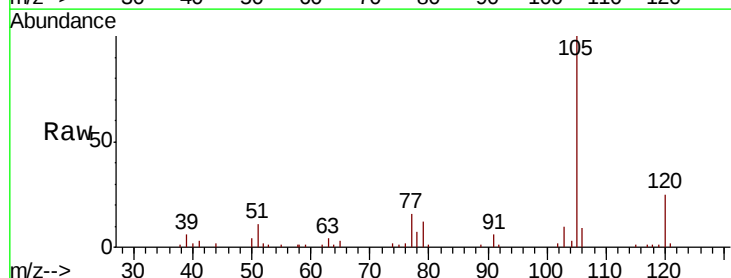


Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VV0

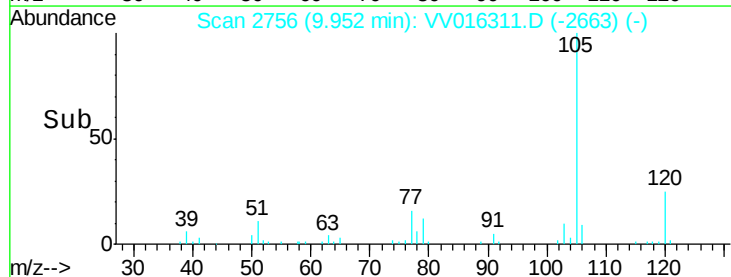
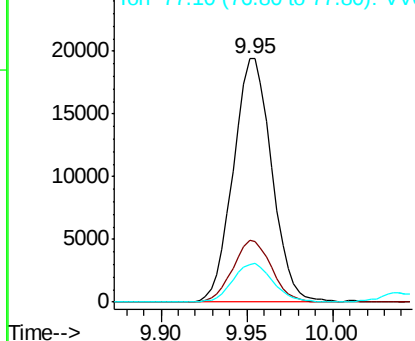


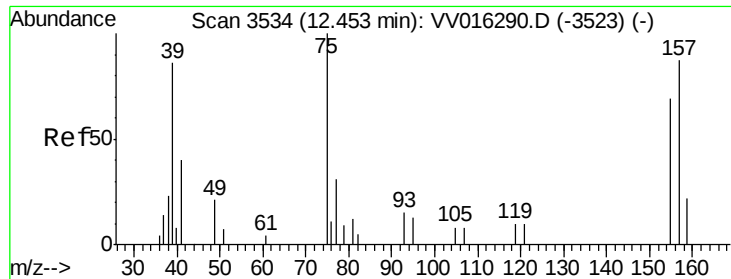
#58
Isopropylbenzene
Concen: 0.774 ug/L
RT: 9.95 min Scan# 2756
Delta R.T. -0.00 min
Lab File: VV016311.D
Acq: 29 May 2020 05:57

Tgt Ion:105 Resp: 30288
Ion Ratio Lower Upper
105 100
120 25.3 20.9 31.3
77 16.5 13.9 20.9



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

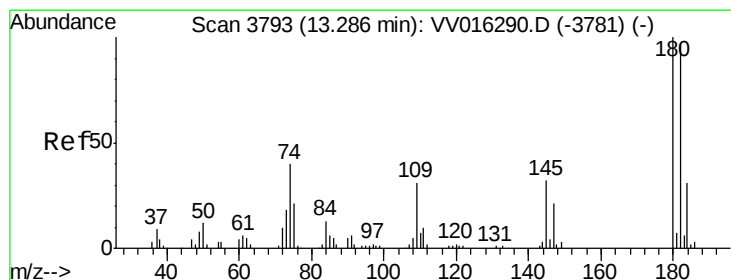
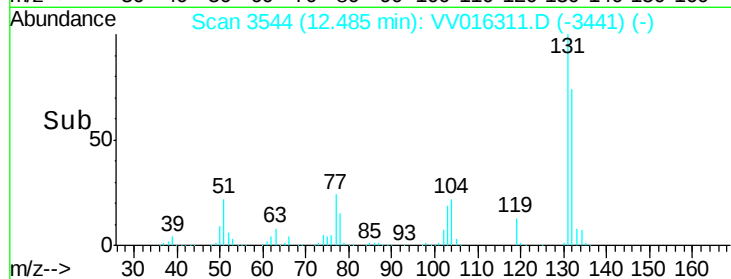
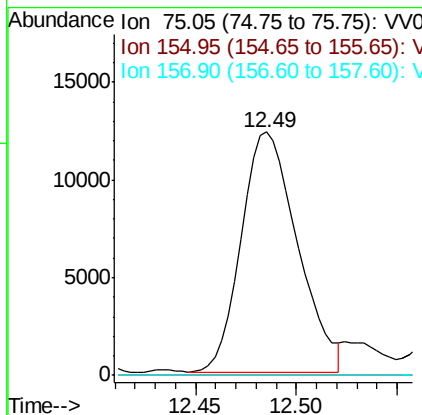
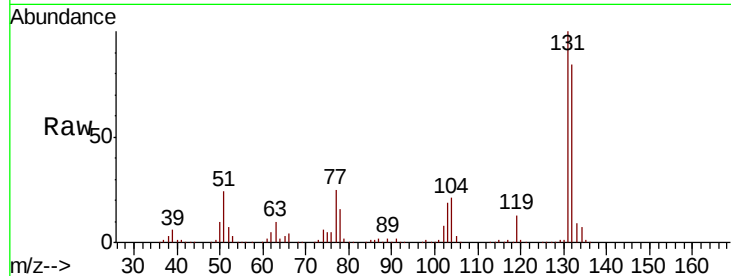




#67
 1,2-Dibromo-3-chloropropane
 Concen: 21.316 ug/L
 RT: 12.49 min Scan# 3544
 Delta R.T. 0.03 min
 Lab File: VV016311.D
 Acq: 29 May 2020 05:57

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 75 Resp: 23906
 Ion Ratio Lower Upper
 75 100
 155 0.0 56.2 84.4#
 157 0.0 71.9 107.9#



#69
 1,2,4-trichlorobenzene
 Concen: 0.179 ug/L
 RT: 13.39 min Scan# 3824
 Delta R.T. 0.10 min
 Lab File: VV016311.D
 Acq: 29 May 2020 05:57

Tgt Ion:180 Resp: 2039
 Ion Ratio Lower Upper
 180 100
 182 0.0 75.0 112.4#
 145 245.7 27.1 40.7#

