

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052820\
 Data File : VV016306.D
 Acq On : 29 May 2020 03:56
 Operator : SY/MD
 Sample : L2662-09
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 29 04:27:22 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	111877	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	104455	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	53207	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	27135	3.78	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	75.60%
7) Chloroethane-d5	1.58	69	19901	3.15	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	63.00%#
11) 1,1-Dichloroethene-d2	2.12	63	37924	2.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	56.20%#
20) 2-Butanone-d5	3.97	46	46507	26.09	ug/L	0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	52.18%
24) Chloroform-d	4.38	84	57808	4.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.80%
26) 1,2-Dichloroethane-d4	5.06	65	29643	3.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	78.20%
32) Benzene-d6	5.07	84	119475	4.62	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.40%
36) 1,2-Dichloropropane-d6	6.10	67	35685	4.46	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.20%
41) Toluene-d8	7.34	98	108094	4.38	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.60%
45) trans-1,3-Dichloropropene-	7.65	79	11644	3.90	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	78.00%
48) 2-Hexanone-d5	8.12	63	53969	39.44	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	78.88%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	23289	3.94	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	78.80%
65) 1,2-Dichlorobenzene-d4	11.65	152	41014	4.62	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	92.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	10565	1.078	ug/L #	1
8) Chloroethane	1.47	64	10423	1.904	ug/L #	51
13) Acetone	2.23	43	3934	3.566	ug/L #	31
14) Carbon disulfide	2.31	76	3081	0.151	ug/L	100
18) trans-1,2-Dichloroethene	2.77	96	1194	0.165	ug/L	92
21) 2-Butanone	4.06	43	25562	13.025	ug/L #	77
22) cis-1,2-Dichloroethene	3.93	96	22568	2.642	ug/L	88
27) 1,2-Dichloroethane	5.16	62	1791	0.189	ug/L #	79
33) Benzene	5.12	78	66796	2.222	ug/L	100
34) Trichloroethene	5.94	95	1981	0.253	ug/L	91
35) Methylcyclohexane	6.10	83	8593	0.651	ug/L #	16
37) 1,2-Dichloropropane	6.10	63	4417	0.599	ug/L #	88
39) cis-1,3-Dichloropropene	7.01	75	960	0.092	ug/L #	76
42) Toluene	7.41	91	118148	3.604	ug/L	99
43) 1,3,5-Trimethylbenzene	10.56	105	92593	3.103	ug/L	98
44) 1,2,4-Trimethylbenzene	10.94	105	229866	7.479	ug/L	99
46) trans-1,3-Dichloropropene	7.64	75	586	0.068	ug/L #	81

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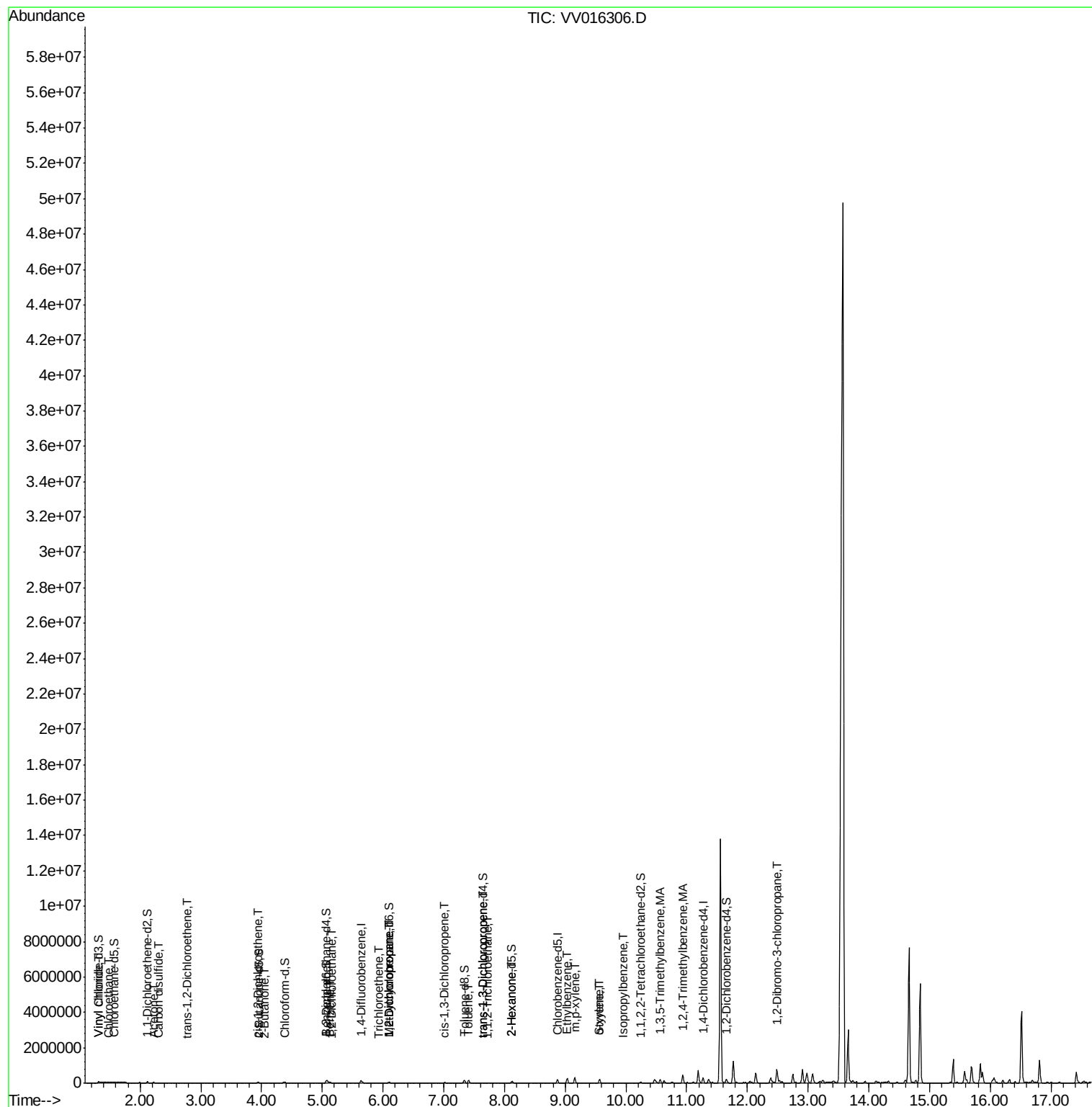
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
47) 1,1,2-Trichloroethane	7.72	97	1075	0.222	ug/L #	16
50) 2-Hexanone	8.12	43	6876	2.150	ug/L #	69
54) Ethylbenzene	9.03	91	173424	4.746	ug/L	99
55) m,p-xylene	9.16	106	85105	6.211	ug/L	97
56) o-xylene	9.56	106	53655	4.109	ug/L	95
57) Styrene	9.57	104	5424	0.250	ug/L #	1
58) Isopropylbenzene	9.95	105	14867	0.416	ug/L	97
67) 1,2-Dibromo-3-chloropropan	12.49	75	17331	17.482	ug/L #	9

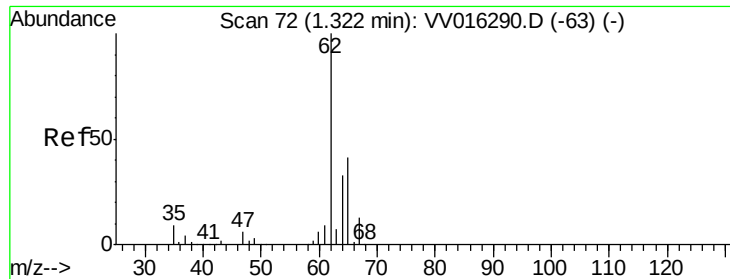
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 1.078 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VV016306.D

Acq: 29 May 2020 03:56

Instrument :

MSVOA_V

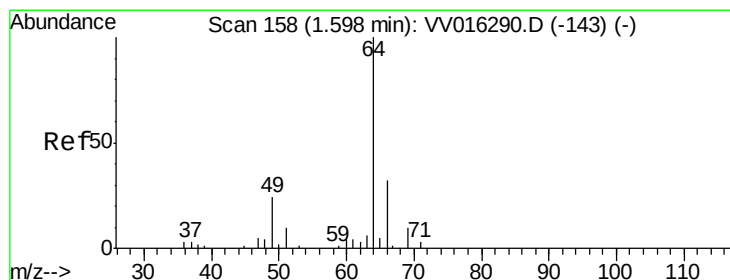
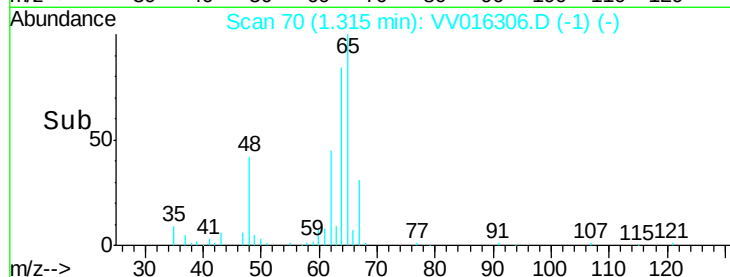
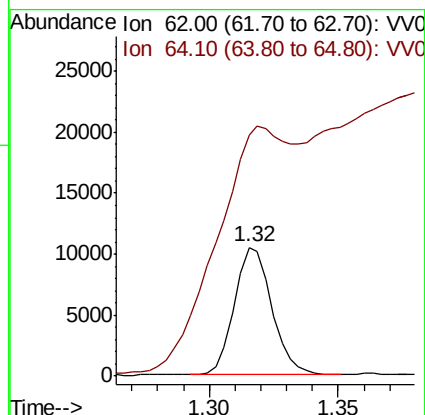
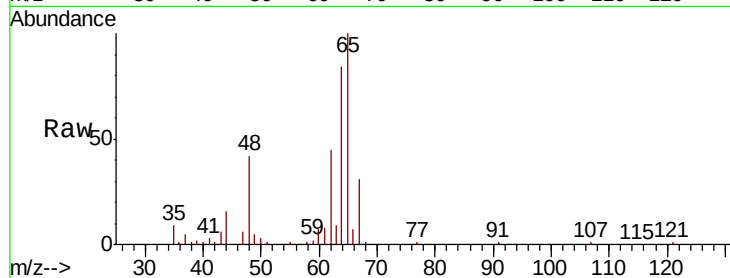
ClientSampleId :

Tot Ion: 62 Resp: 10565

Ion Ratio Lower Upper

62 100

64 187.2 22.1 41.1#



#8

Chloroethane

Concen: 1.904 ug/L

RT: 1.47 min Scan# 119

Delta R.T. -0.13 min

Lab File: VV016306.D

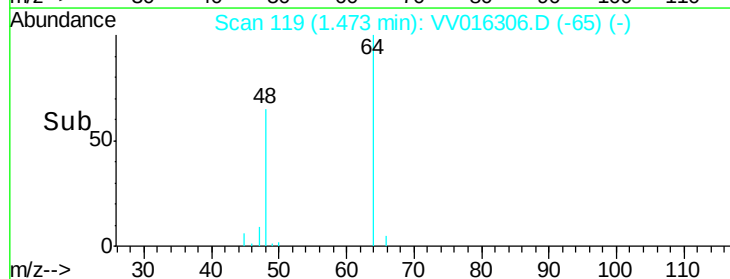
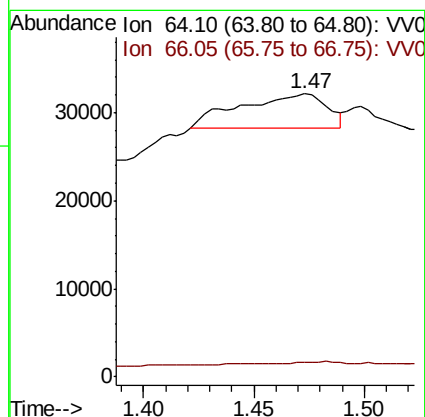
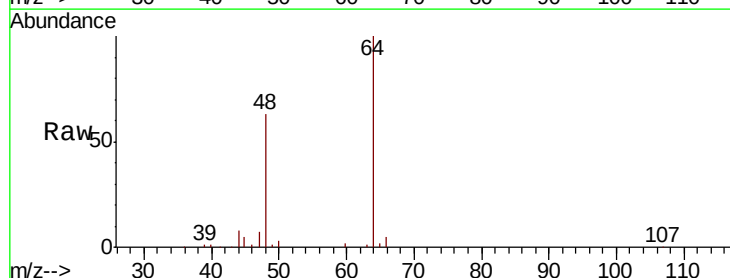
Acq: 29 May 2020 03:56

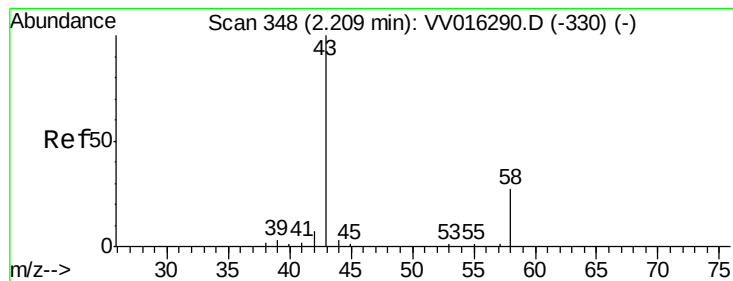
Tgt Ion: 64 Resp: 10423

Ion Ratio Lower Upper

64 100

66 5.0 22.9 42.5#





#13

Acetone

Concen: 3.566 ug/L

RT: 2.23 min Scan# 353

Delta R.T. 0.02 min

Lab File: VV016306.D

Acq: 29 May 2020 03:56

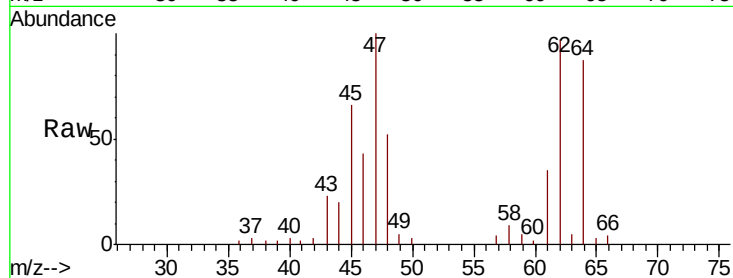
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 3934

Ion Ratio Lower Upper

43 100

58 58.9 0.0 48.8#



Abundance Ion 43.05 (42.75 to 43.75): VV016306.D (-255) (-)

Ion 58.05 (57.75 to 58.75): VV016306.D (-255) (-)

2000

1500

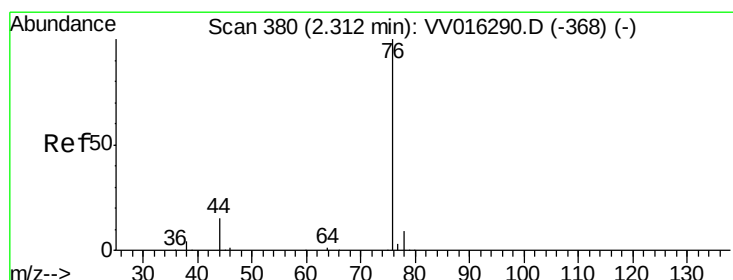
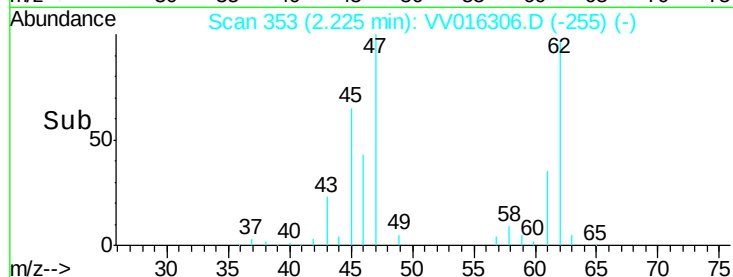
1000

500

0

Time-->

2.15 2.20 2.25



#14

Carbon disulfide

Concen: 0.151 ug/L

RT: 2.31 min Scan# 378

Delta R.T. -0.01 min

Lab File: VV016306.D

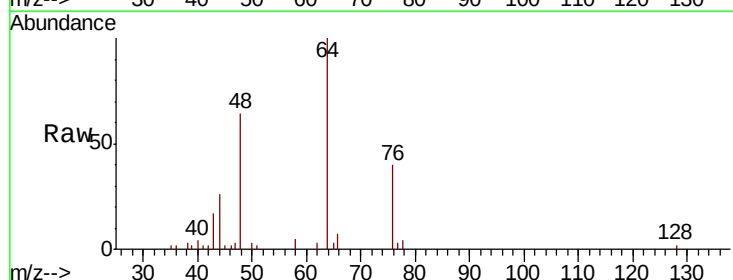
Acq: 29 May 2020 03:56

Tgt Ion: 76 Resp: 3081

Ion Ratio Lower Upper

76 100

78 9.2 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VV016306.D (-287) (-)

Ion 78.00 (77.70 to 78.70): VV016306.D (-287) (-)

2500

2000

1500

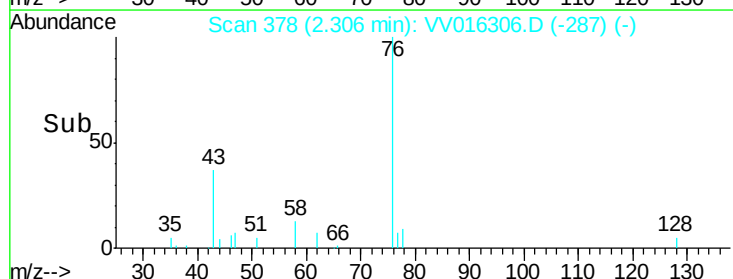
1000

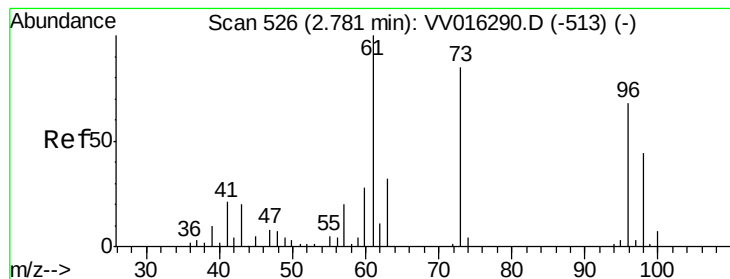
500

0

Time-->

2.25 2.30 2.35





#18

trans-1,2-Dichloroethene

Concen: 0.165 ug/L

RT: 2.77 min Scan# 523

Delta R.T. -0.01 min

Lab File: VV016306.D

Acq: 29 May 2020 03:56

Instrument :
MSVOA_V
ClientSampled :

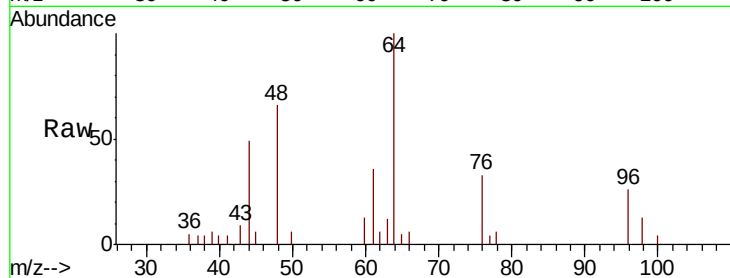
Tot Ion: 96 Resp: 1194

Ion Ratio Lower Upper

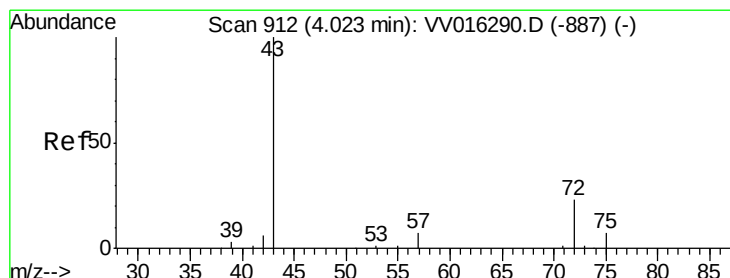
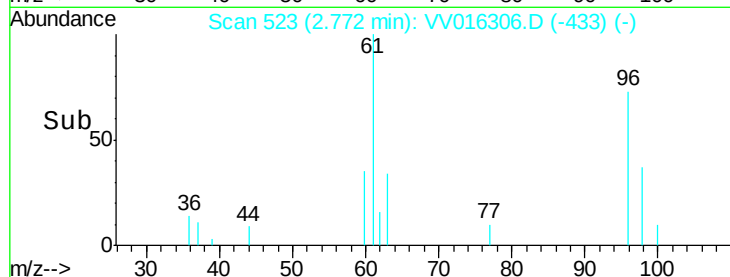
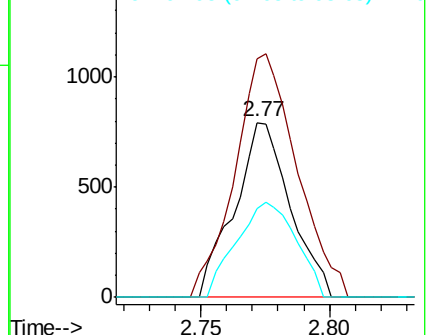
96 100

61 136.5 99.8 185.4

98 50.8 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0



#21

2-Butanone

Concen: 13.025 ug/L

RT: 4.06 min Scan# 923

Delta R.T. 0.04 min

Lab File: VV016306.D

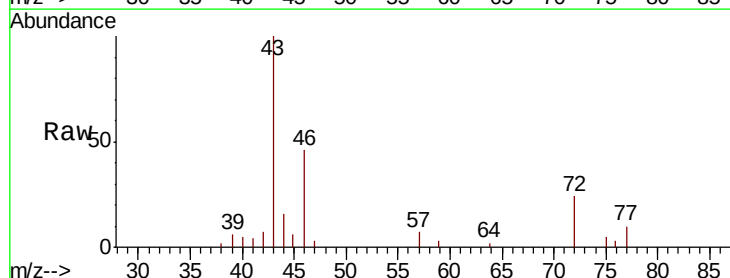
Acq: 29 May 2020 03:56

Tgt Ion: 43 Resp: 25562

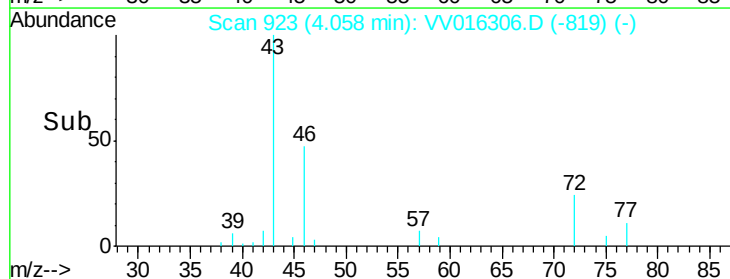
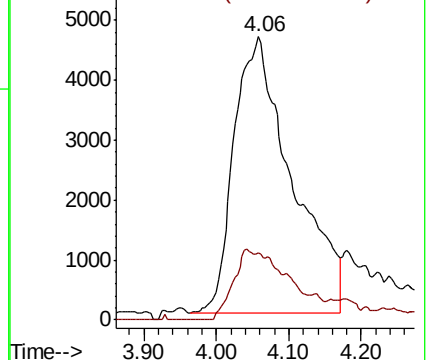
Ion Ratio Lower Upper

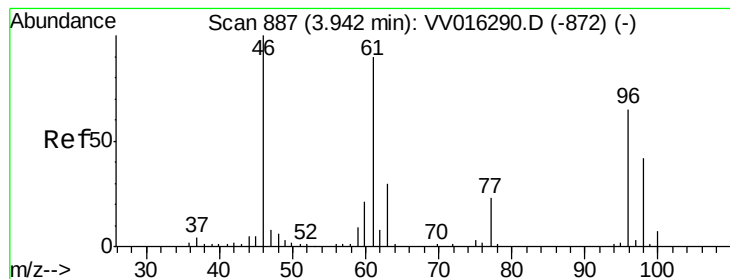
43 100

72 8.9 9.7 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 72.00 (71.70 to 72.70): VV0





#22

cis-1,2-Dichloroethene

Concen: 2.642 ug/L

RT: 3.93 min Scan# 884

Delta R.T. -0.01 min

Lab File: VV016306.D

Acq: 29 May 2020 03:56

Instrument :
MSVOA_V
ClientSampleId :

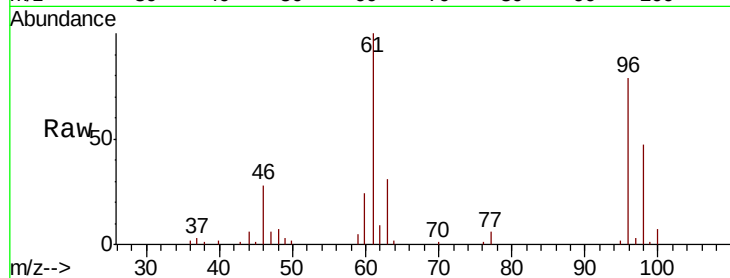
Tot Ion: 96 Resp: 22568

Ion Ratio Lower Upper

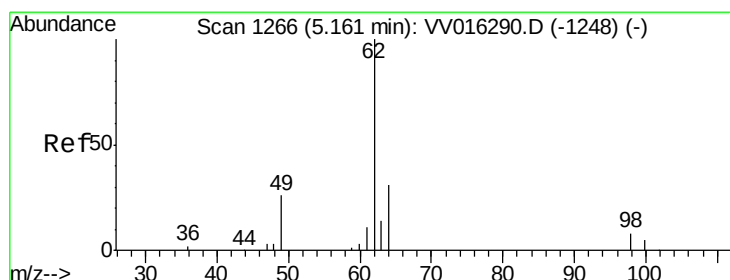
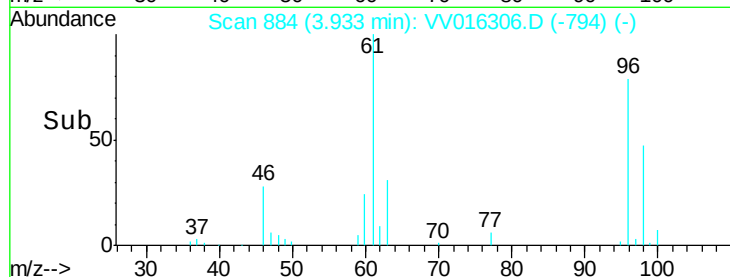
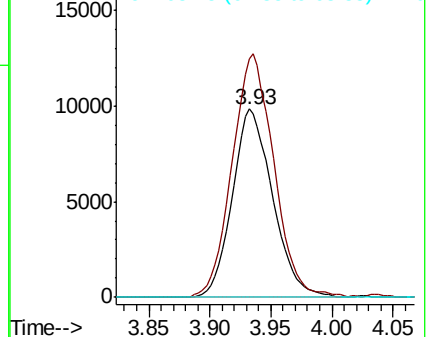
96 100

61 127.1 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



#27

1,2-Dichloroethane

Concen: 0.189 ug/L

RT: 5.16 min Scan# 1266

Delta R.T. 0.00 min

Lab File: VV016306.D

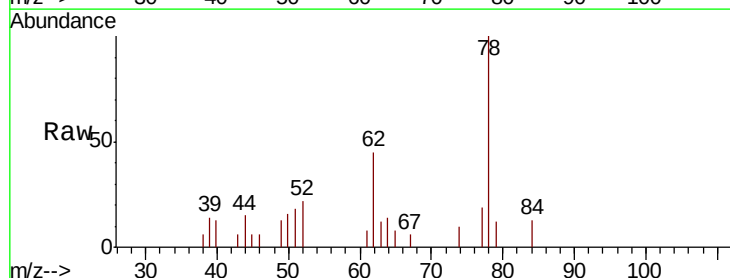
Acq: 29 May 2020 03:56

Tgt Ion: 62 Resp: 1791

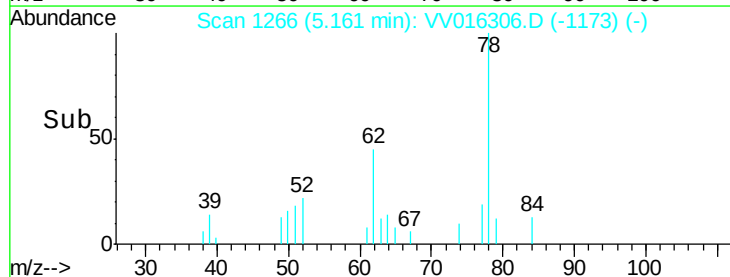
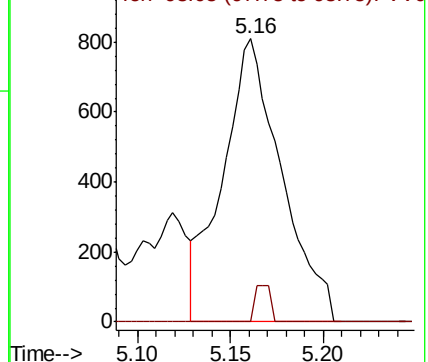
Ion Ratio Lower Upper

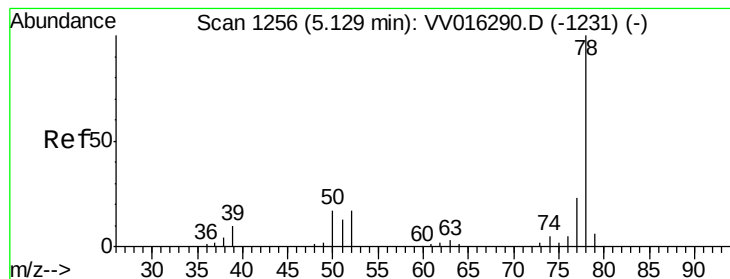
62 100

98 0.0 5.7 8.5#



Abundance Ion 62.00 (61.70 to 62.70): VV0
Ion 98.05 (97.75 to 98.75): VV0





#33

Benzene

Concen: 2.222 ug/L

RT: 5.12 min Scan# 1254

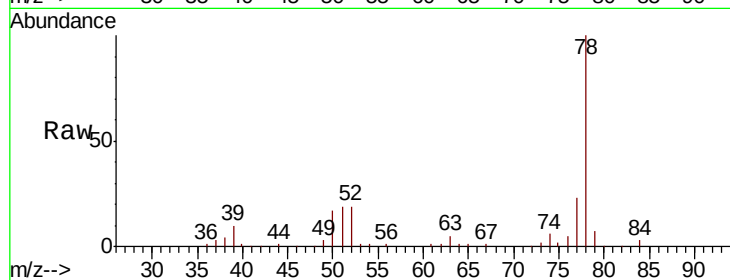
Delta R.T. -0.01 min

Lab File: VV016306.D

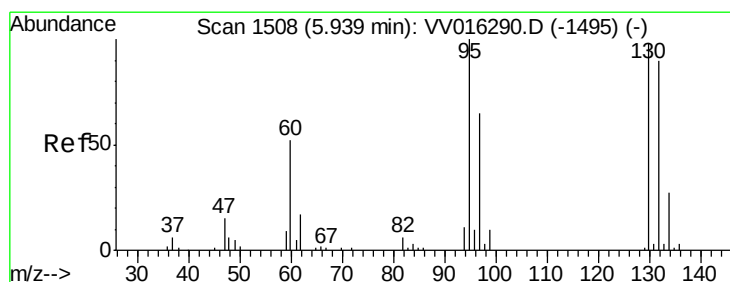
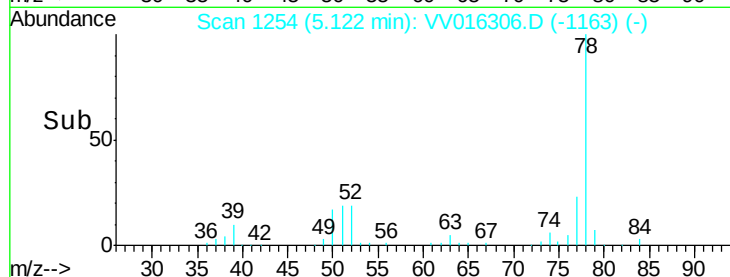
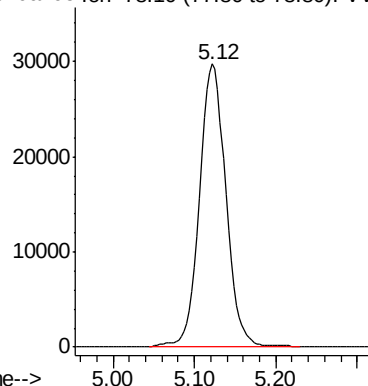
Acq: 29 May 2020 03:56

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 78 Resp: 66796



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 0.253 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV016306.D

Acq: 29 May 2020 03:56

Tgt Ion: 95 Resp: 1981

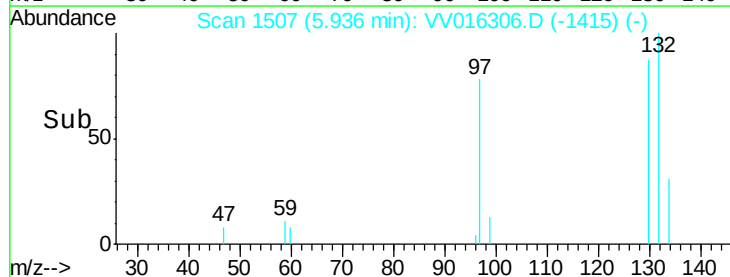
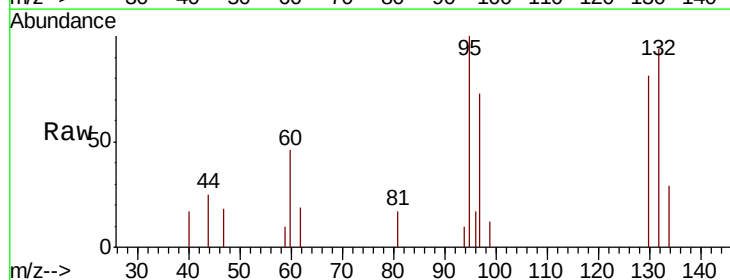
Ion	Ratio	Lower	Upper
95	100		
97	72.9	43.6	81.0
132	93.6	63.9	118.7
130	81.0	65.2	121.0

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

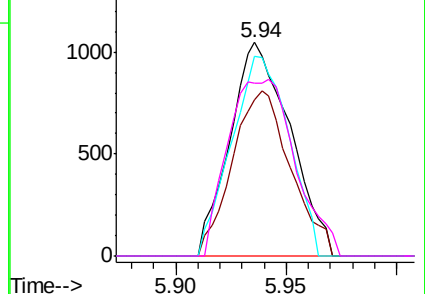


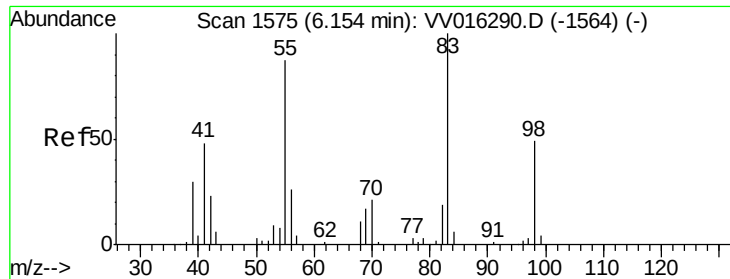
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

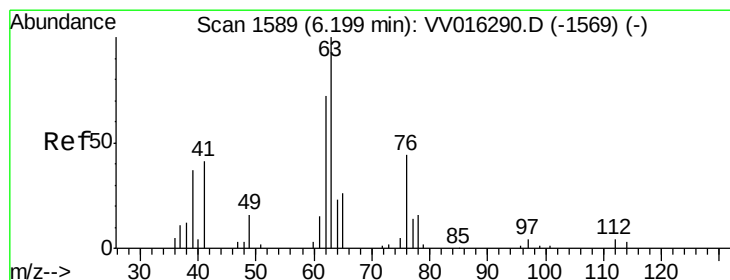
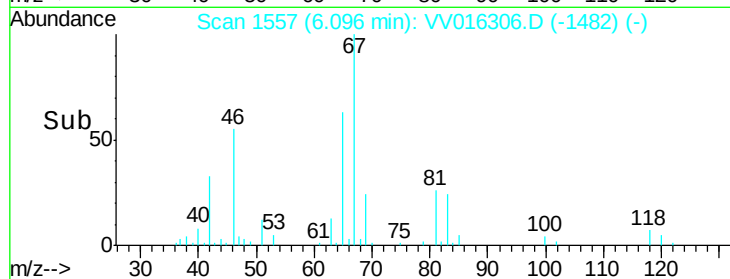
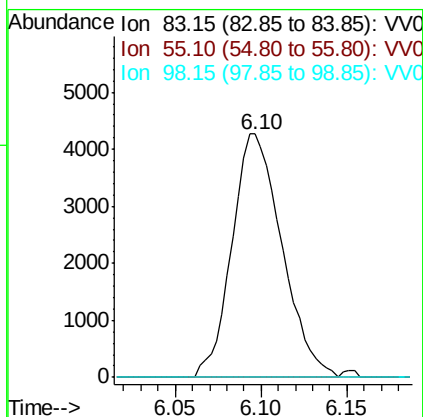
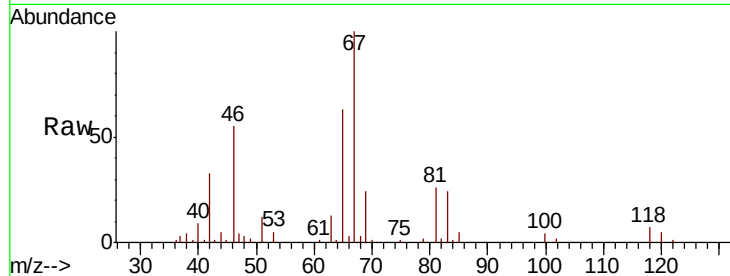




#35
Methylvlcyclohexane
Concen: 0.651 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.06 min
Lab File: VV016306.D
Acq: 29 May 2020 03:56

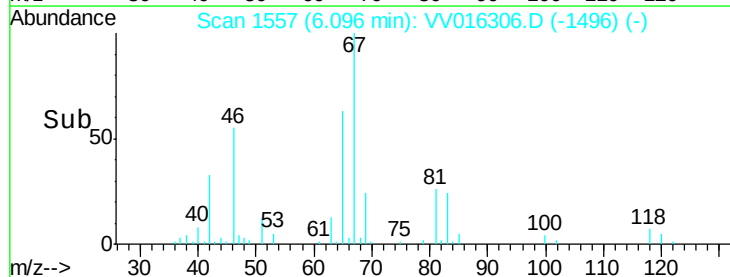
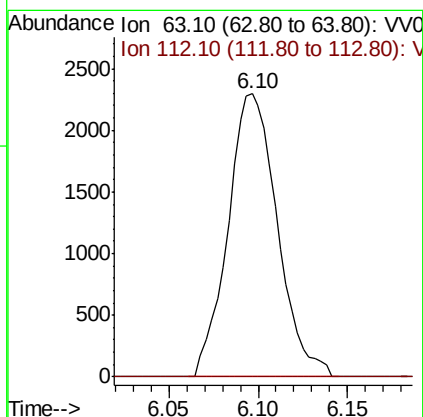
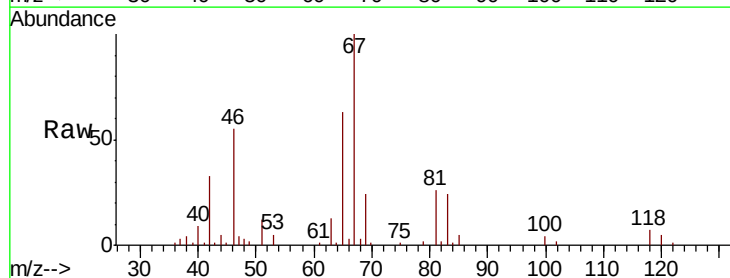
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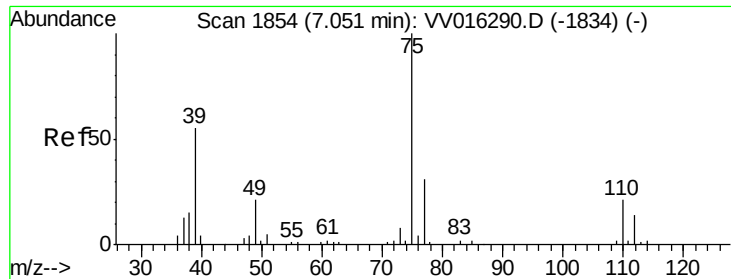
Tot Ion: 83 Resp: 8593
Ion Ratio Lower Upper
83 100
55 0.0 65.4 98.0#
98 0.6 39.3 58.9#



#37
1,2-Dichloropropane
Concen: 0.599 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.10 min
Lab File: VV016306.D
Acq: 29 May 2020 03:56

Tgt Ion: 63 Resp: 4417
Ion Ratio Lower Upper
63 100
112 0.0 3.1 4.7#

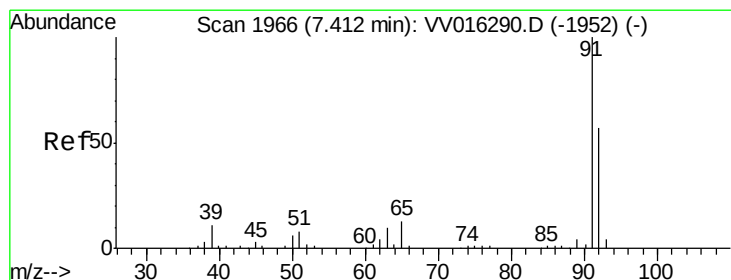
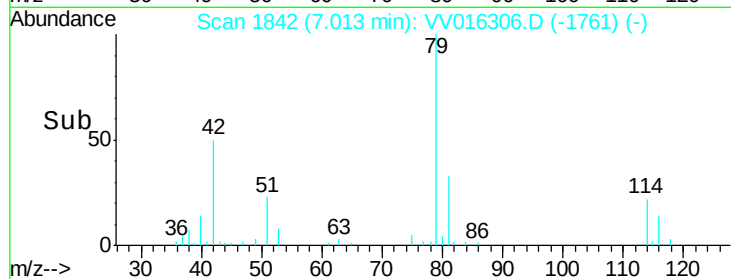
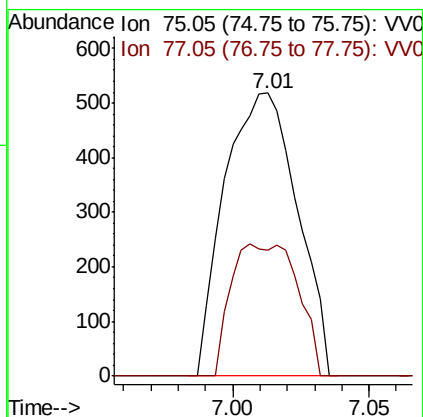
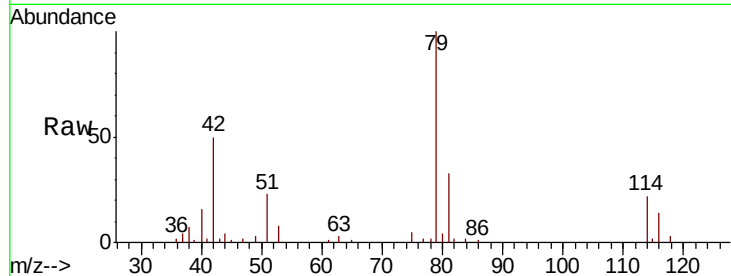




#39
 cis-1,3-Dichloropropene
 Concen: 0.092 ug/L
 RT: 7.01 min Scan# 1842
 Delta R.T. -0.04 min
 Lab File: VV016306.D
 Acq: 29 May 2020 03:56

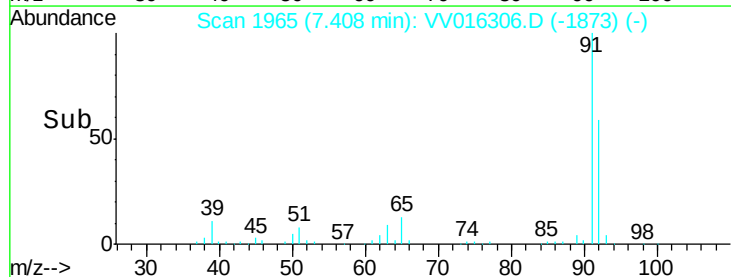
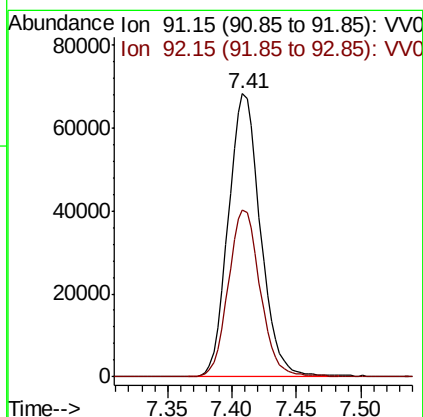
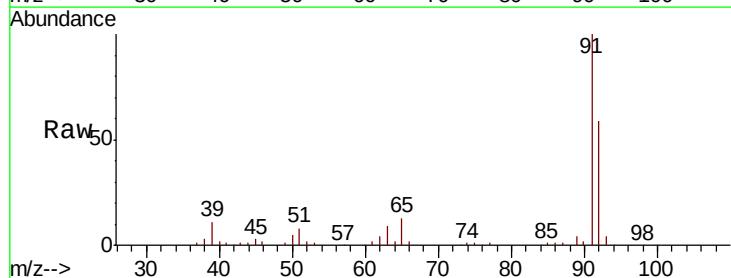
Instrument :
 MSVOA_V
 ClientSampled :

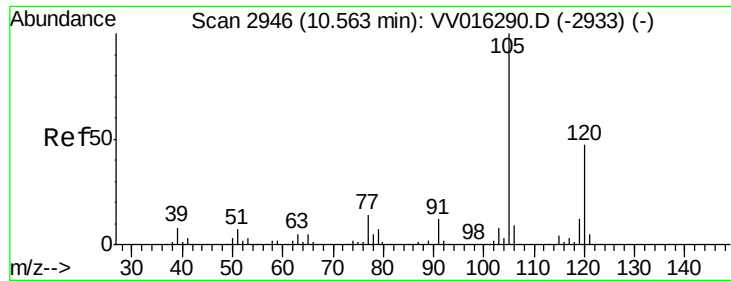
Tot Ion: 75 Resp: 960
 Ion Ratio Lower Upper
 75 100
 77 44.4 21.7 40.3#



#42
 Toluene
 Concen: 3.604 ug/L
 RT: 7.41 min Scan# 1965
 Delta R.T. -0.00 min
 Lab File: VV016306.D
 Acq: 29 May 2020 03:56

Tgt Ion: 91 Resp: 118148
 Ion Ratio Lower Upper
 91 100
 92 59.0 40.9 76.0





#43

1,3,5-Trimethylbenzene

Concen: 3.103 ug/L

RT: 10.56 min Scan# 2946

Delta R.T. 0.00 min

Lab File: VV016306.D

Acq: 29 May 2020 03:56

Instrument :

MSVOA_V

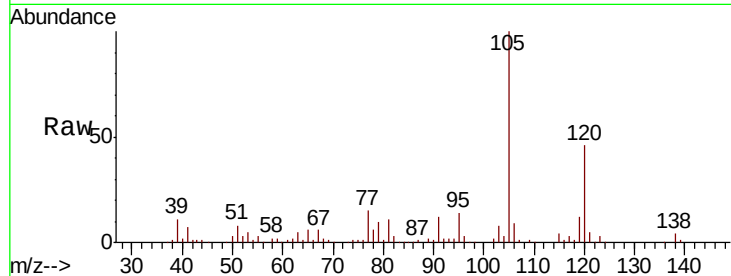
ClientSampleId :

Tot Ion:105 Resp: 92593

Ion Ratio Lower Upper

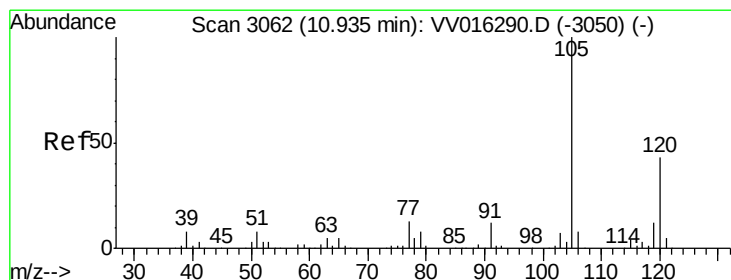
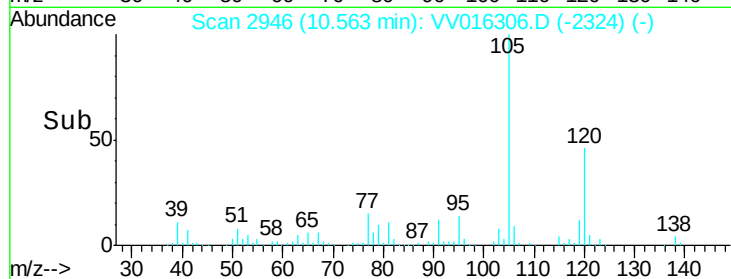
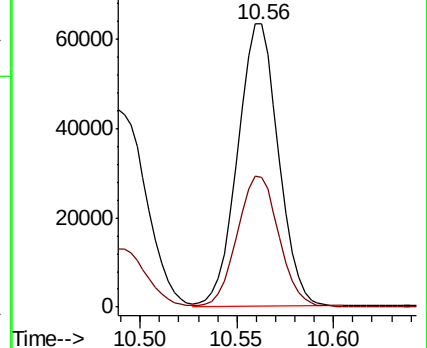
105 100

120 47.8 37.4 56.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#44

1,2,4-Trimethylbenzene

Concen: 7.479 ug/L

RT: 10.94 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VV016306.D

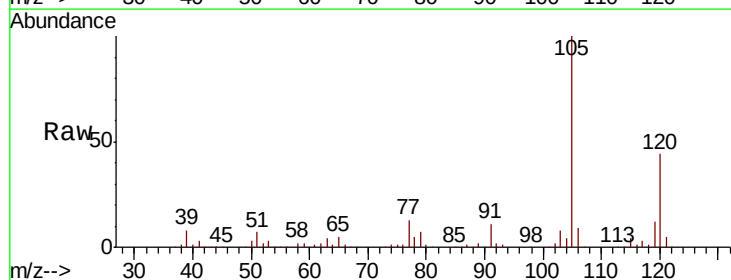
Acq: 29 May 2020 03:56

Tgt Ion:105 Resp: 229866

Ion Ratio Lower Upper

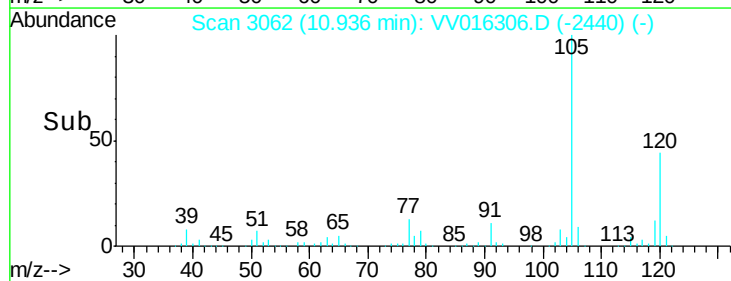
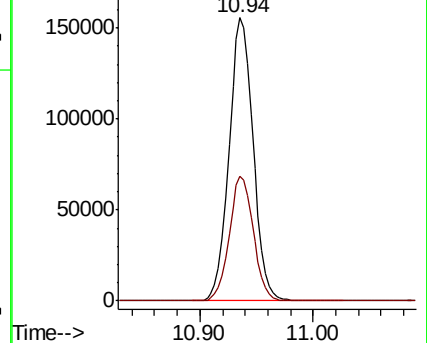
105 100

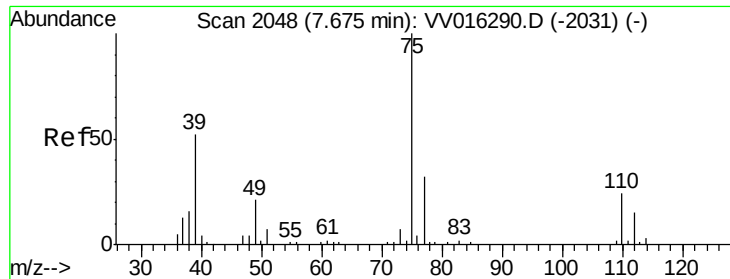
120 44.2 34.6 52.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#46

trans-1,3-Dichloropropene

Concen: 0.068 ug/L

RT: 7.64 min Scan# 2038

Delta R.T. -0.03 min

Lab File: VV016306.D

Acq: 29 May 2020 03:56

Instrument :

MSVOA_V

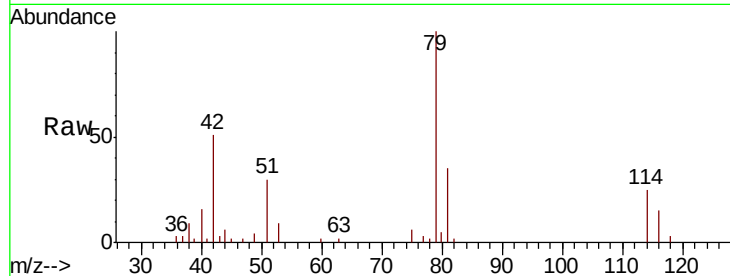
ClientSampleId :

Tot Ion: 75 Resp: 586

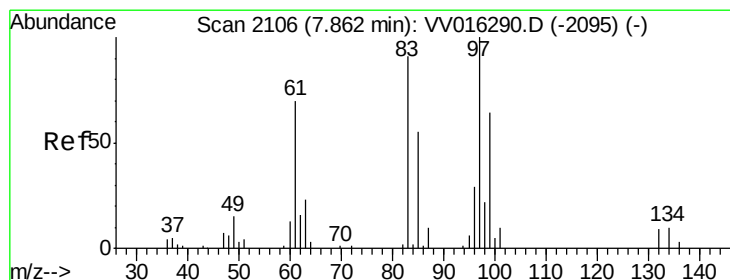
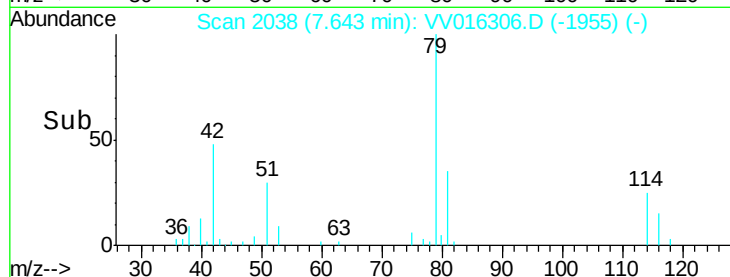
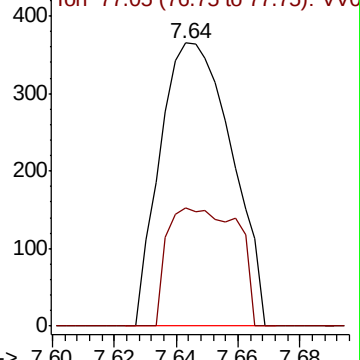
Ion Ratio Lower Upper

75 100

77 41.6 21.7 40.3#



Abundance Ion 75.05 (74.75 to 75.75): VV016290.D (-2031) (-)



#47

1,1,2-Trichloroethane

Concen: 0.222 ug/L

RT: 7.72 min Scan# 2062

Delta R.T. -0.14 min

Lab File: VV016306.D

Acq: 29 May 2020 03:56

Tgt Ion: 97 Resp: 1075

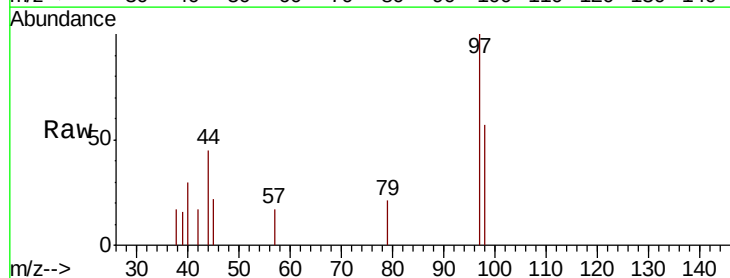
Ion Ratio Lower Upper

97 100

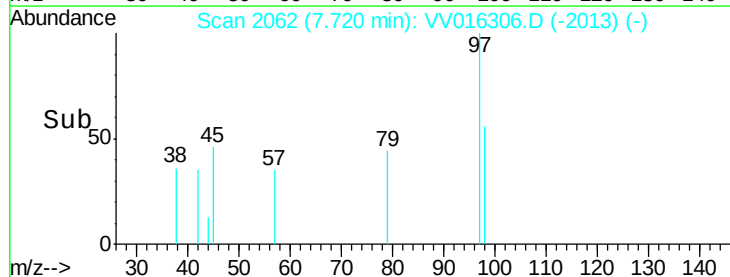
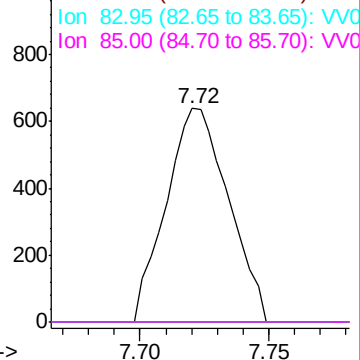
99 0.0 40.8 75.8#

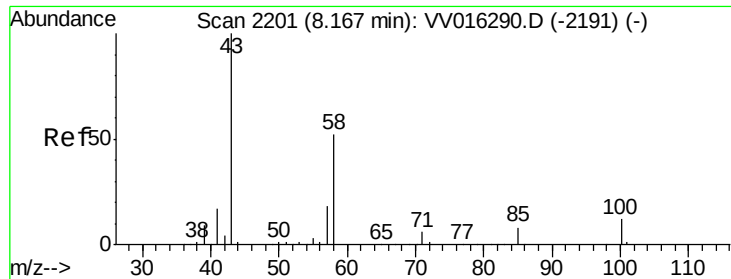
83 0.0 60.0 111.4#

85 0.0 39.3 73.1#



Abundance Ion 96.95 (96.65 to 97.65): VV016290.D (-2095) (-)

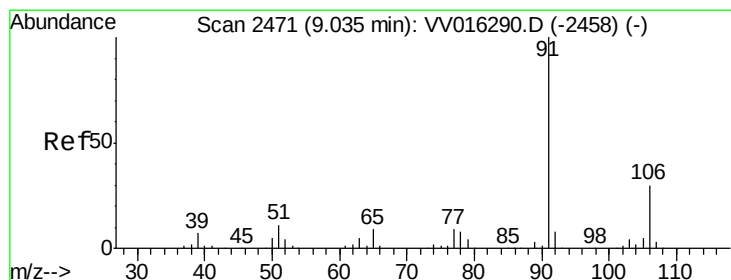
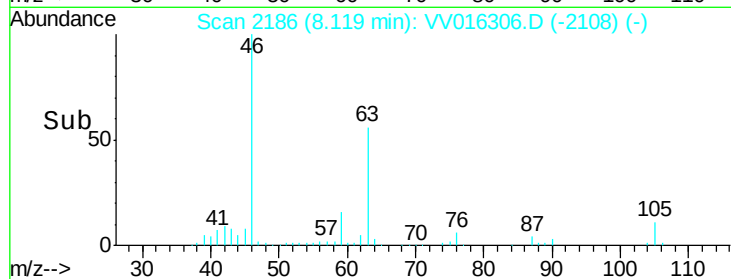
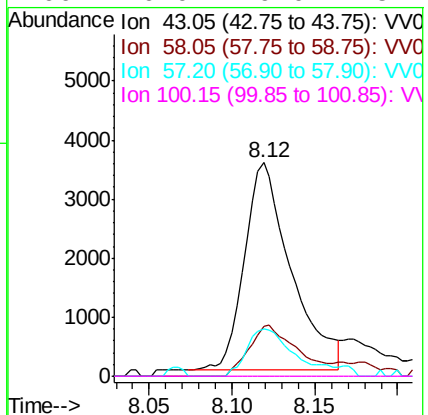
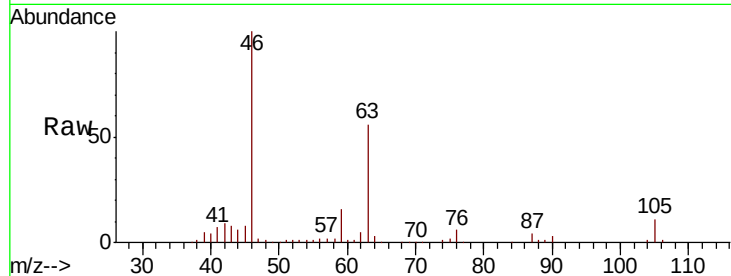




#50
2-Hexanone
Concen: 2.150 ug/L
RT: 8.12 min Scan# 2186
Delta R.T. -0.05 min
Lab File: VV016306.D
Acq: 29 May 2020 03:56

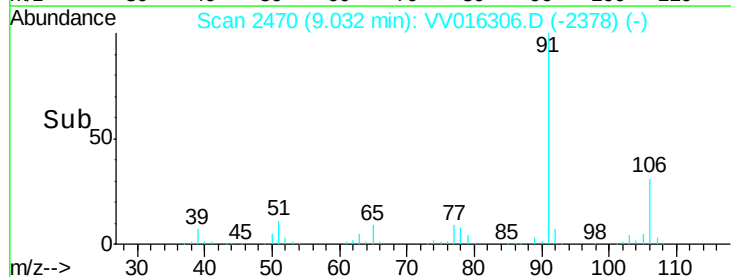
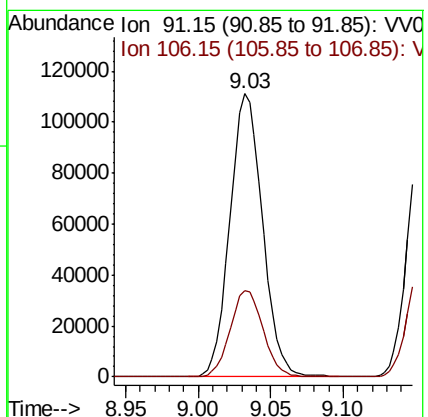
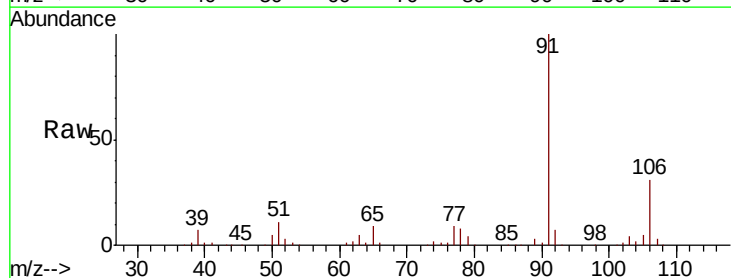
Instrument :
MSVOA_V
ClientSampled :

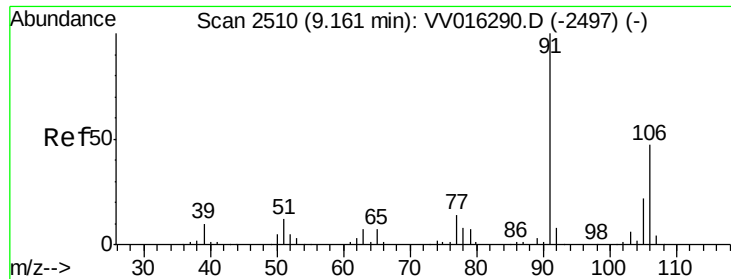
Tot Ion: 43 Resp: 6876
Ion Ratio Lower Upper
43 100
58 25.5 41.4 62.0#
57 24.6 15.0 22.4#
100 0.0 9.0 13.4#



#54
Ethylbenzene
Concen: 4.746 ug/L
RT: 9.03 min Scan# 2470
Delta R.T. -0.00 min
Lab File: VV016306.D
Acq: 29 May 2020 03:56

Tgt Ion: 91 Resp: 173424
Ion Ratio Lower Upper
91 100
106 30.6 21.0 39.0





#55

m,p-xylene

Concen: 6.211 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV016306.D

Acq: 29 May 2020 03:56

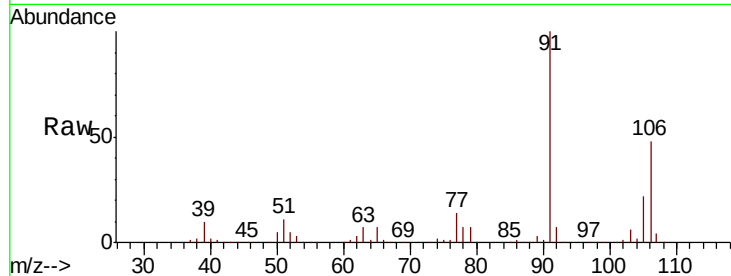
Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 85105

Ion Ratio Lower Upper

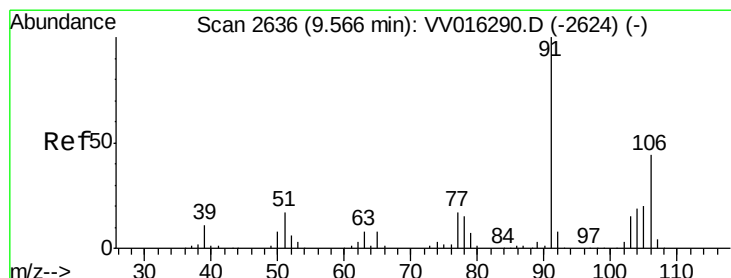
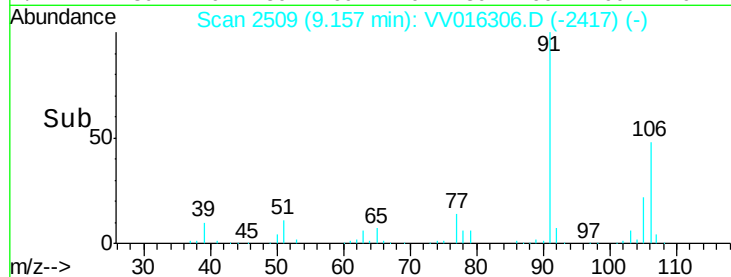
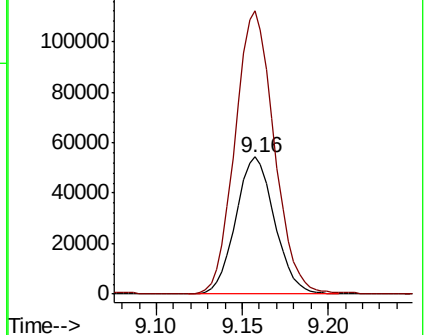
106 100

91 206.5 148.1 275.0



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#56

o-xylene

Concen: 4.109 ug/L

RT: 9.56 min Scan# 2635

Delta R.T. -0.00 min

Lab File: VV016306.D

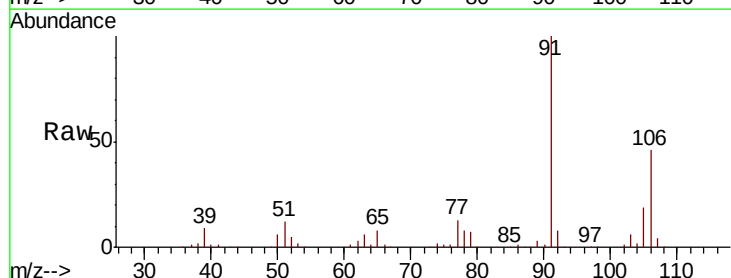
Acq: 29 May 2020 03:56

Tgt Ion:106 Resp: 53655

Ion Ratio Lower Upper

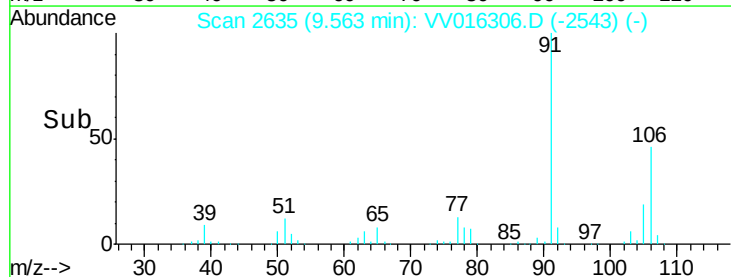
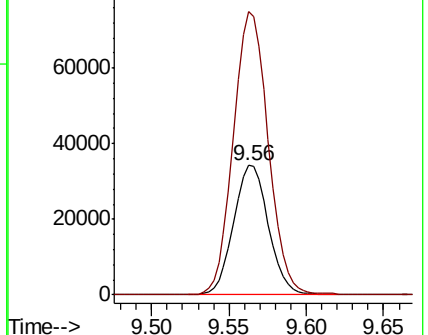
106 100

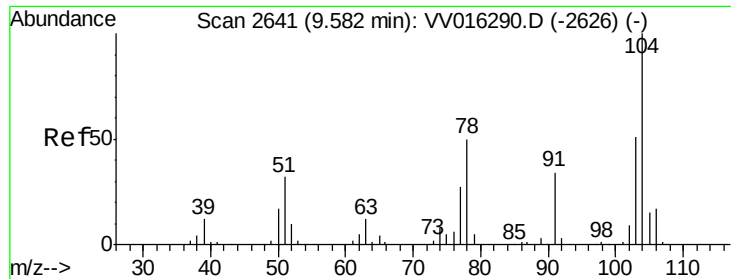
91 218.9 158.8 294.8



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#57

Stvrene

Concen: 0.250 ug/L

RT: 9.57 min Scan# 2638

Delta R.T. -0.01 min

Lab File: VV016306.D

Acq: 29 May 2020 03:56

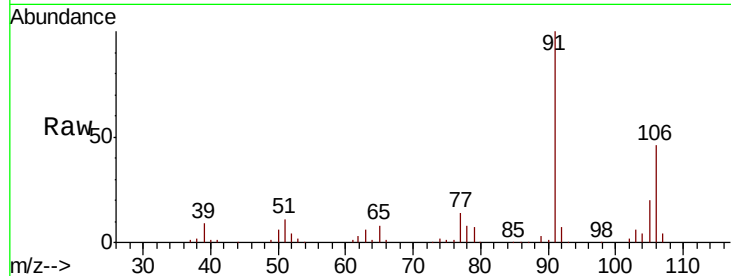
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:104 Resp: 5424

Ion Ratio Lower Upper

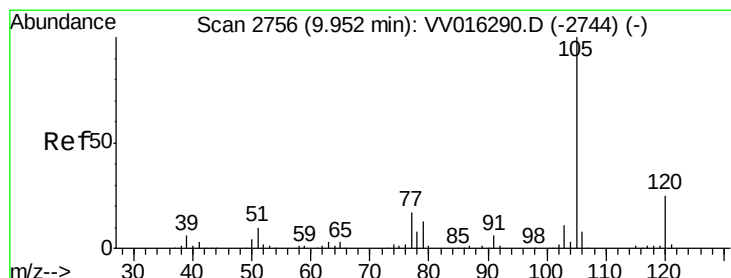
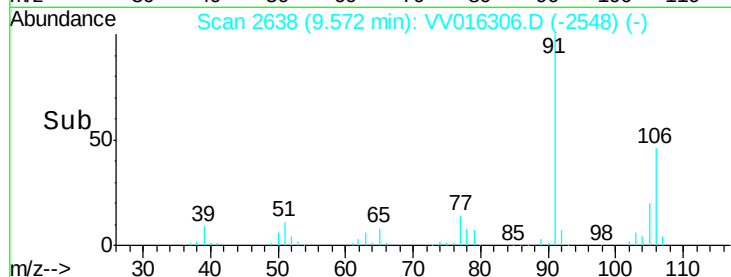
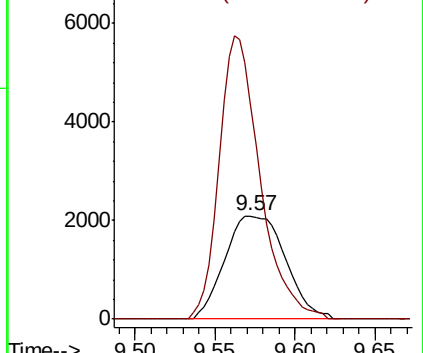
104 100

78 211.9 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: 0.416 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV016306.D

Acq: 29 May 2020 03:56

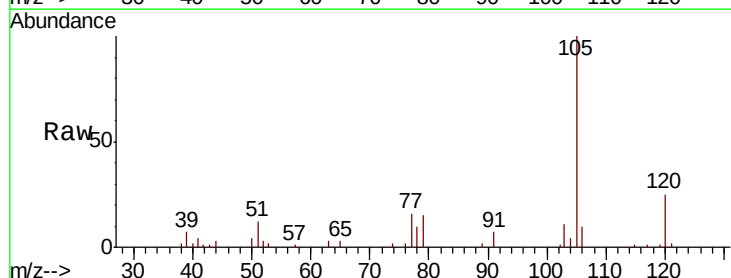
Tgt Ion:105 Resp: 14867

Ion Ratio Lower Upper

105 100

120 24.4 20.9 31.3

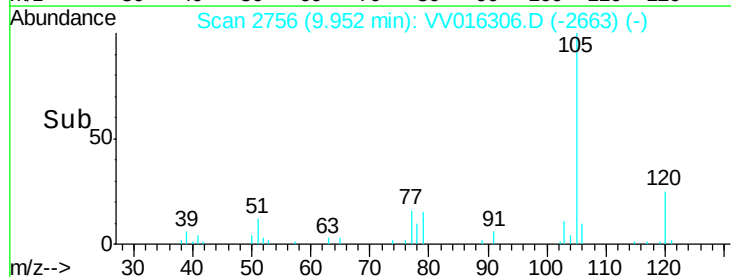
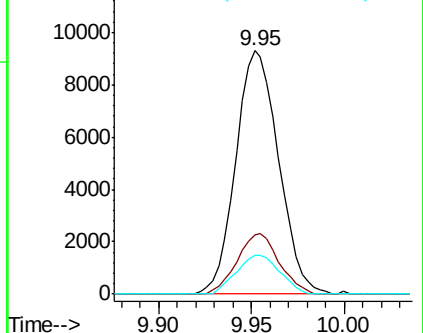
77 16.1 13.9 20.9

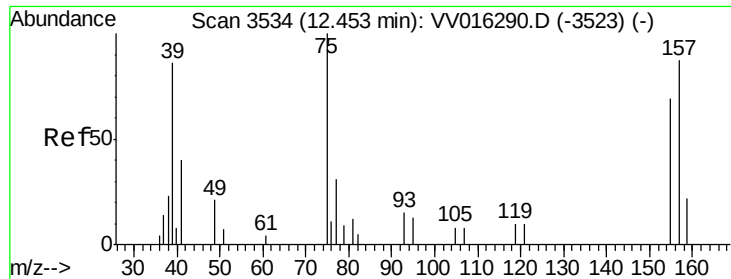


Abundance Ion 105.05 (104.75 to 105.75): V

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: 17.482 ug/L

RT: 12.49 min Scan# 3544

Delta R.T. 0.03 min

Lab File: VV016306.D

Acq: 29 May 2020 03:56

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 75 Resp: 17331

Ion Ratio Lower Upper

75 100

155 0.0 56.2 84.4#

157 0.0 71.9 107.9#

