

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052820\
 Data File : VV016307.D
 Acq On : 29 May 2020 04:20
 Operator : SY/MD
 Sample : L2662-10
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 29 06:32:36 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	112150	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	106463	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	54303	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	28066	3.90	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.00%
7) Chloroethane-d5	1.58	69	18962	3.00	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	60.00%#
11) 1,1-Dichloroethene-d2	2.13	63	68717	5.08	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	101.60%
20) 2-Butanone-d5	3.96	46	64493	36.10	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	72.20%
24) Chloroform-d	4.38	84	58350	4.07	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	81.40%
26) 1,2-Dichloroethane-d4	5.06	65	30133	3.97	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.40%
32) Benzene-d6	5.07	84	117951	4.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.40%
36) 1,2-Dichloropropane-d6	6.10	67	36028	4.42	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	88.40%
41) Toluene-d8	7.34	98	109895	4.37	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	87.40%
45) trans-1,3-Dichloropropene-	7.65	79	12253	4.03	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.60%
48) 2-Hexanone-d5	8.12	63	63478	45.51	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	91.02%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	24224	4.02	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	80.40%
65) 1,2-Dichlorobenzene-d4	11.65	152	41139	4.54	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	90.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	319407	32.521	ug/L	98
8) Chloroethane	1.44	64	37099	6.761	ug/L #	51
12) 1,1-Dichloroethene	2.13	96	51901	7.846	ug/L	89
13) Acetone	2.24	43	7270	6.574	ug/L	62
14) Carbon disulfide	2.45	76	18001	0.878	ug/L	95
15) Methyl Acetate	2.26	43	9378	3.318	ug/L #	53
16) Methylene chloride	2.52	84	841	0.111	ug/L	96
18) trans-1,2-Dichloroethene	2.78	96	22571	3.118	ug/L	97
19) 1,1-Dichloroethane	3.21	63	1940	0.141	ug/L	99
21) 2-Butanone	4.05	43	5716	2.905	ug/L #	1
22) cis-1,2-Dichloroethene	3.94	96	11425183	1334.479	ug/L #	98
27) 1,2-Dichloroethane	5.16	62	6104	0.642	ug/L #	93
33) Benzene	5.12	78	475982	15.536	ug/L	100
34) Trichloroethene	5.94	95	9404	1.178	ug/L	94
35) Methylcyclohexane	6.10	83	8837	0.657	ug/L #	22
37) 1,2-Dichloropropane	6.20	63	649	0.086	ug/L #	88
39) cis-1,3-Dichloropropene	7.01	75	1023	0.096	ug/L #	50

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 ALS Vial : 46 Sample Multiplier: 1

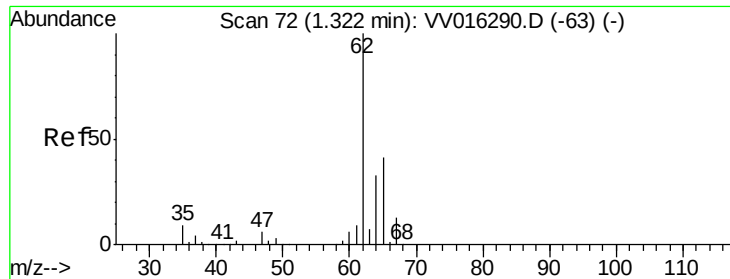
Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 29 06:32:36 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

42) Toluene	7.41	91	807618	24.172	ug/L	100
43) 1,3,5-Trimethylbenzene	10.56	105	194780	6.404	ug/L	99
44) 1,2,4-Trimethylbenzene	10.94	105	501879	16.021	ug/L	97
46) trans-1,3-Dichloropropene	7.64	75	533	0.060	ug/L #	76
50) 2-Hexanone	8.18	43	1391	0.427	ug/L #	5
54) Ethylbenzene	9.03	91	657874	17.665	ug/L	99
55) m,p-xylene	9.16	106	270991	19.405	ug/L	97
56) o-xylene	9.56	106	181711	13.654	ug/L	96
57) Styrene	9.57	104	12965	0.585	ug/L #	1
58) Isopropylbenzene	9.95	105	38095	1.045	ug/L	99
67) 1,2-Dibromo-3-chloropropan	12.49	75	40035	39.568	ug/L #	9

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



#5

Vinyl chloride

Concen: 32.521 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VV016307.D

Acq: 29 May 2020 04:20

Instrument :

MSVOA_V

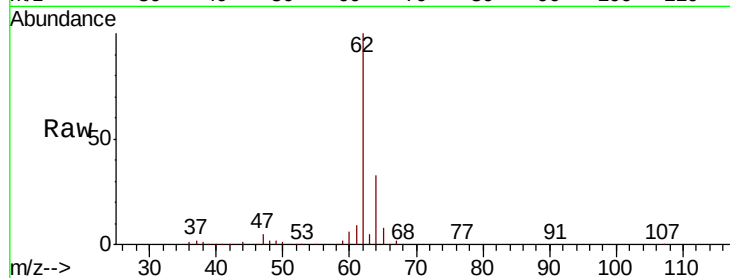
ClientSampleId :

Tot Ion: 62 Resp: 319407

Ion Ratio Lower Upper

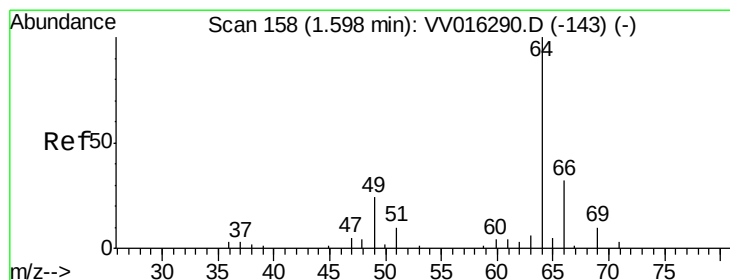
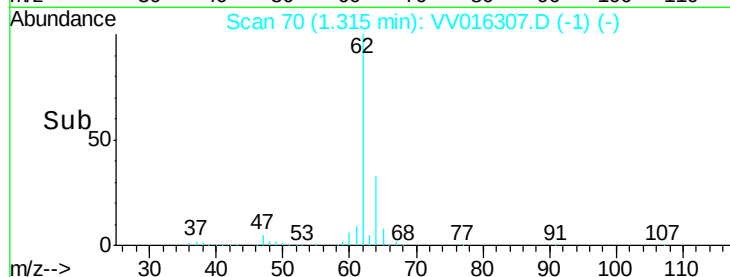
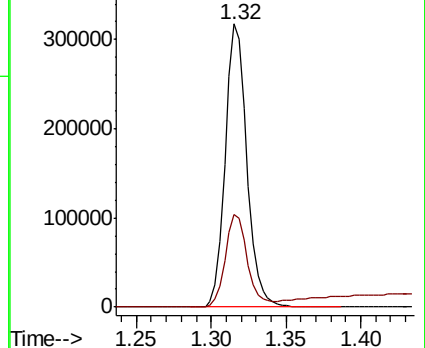
62 100

64 32.7 22.1 41.1



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#8

Chloroethane

Concen: 6.761 ug/L

RT: 1.44 min Scan# 110

Delta R.T. -0.15 min

Lab File: VV016307.D

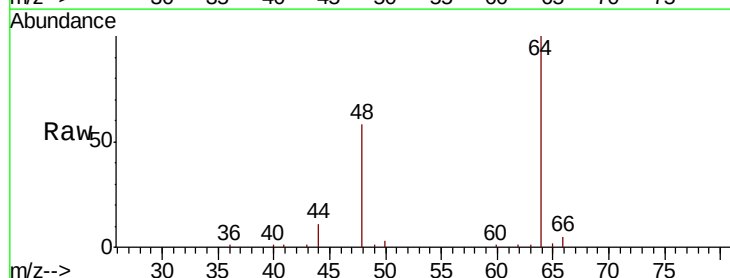
Acq: 29 May 2020 04:20

Tgt Ion: 64 Resp: 37099

Ion Ratio Lower Upper

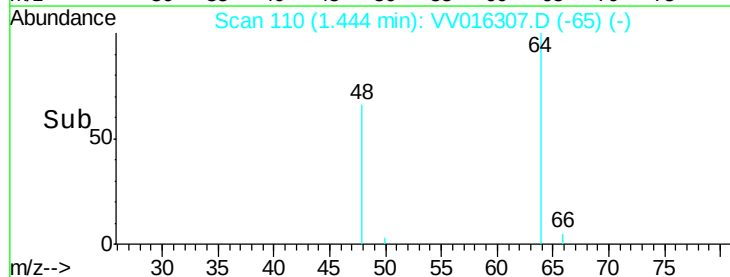
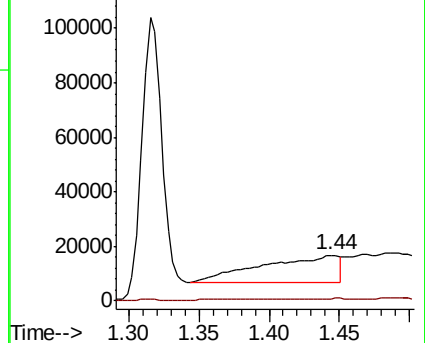
64 100

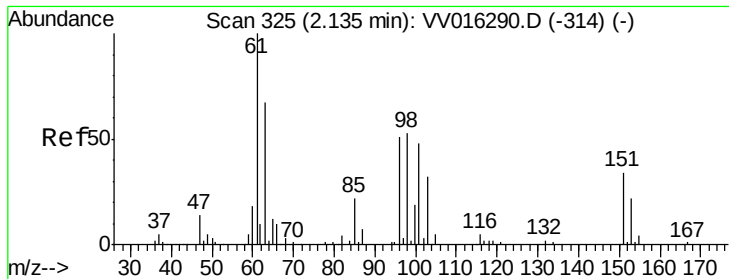
66 5.2 22.9 42.5#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0

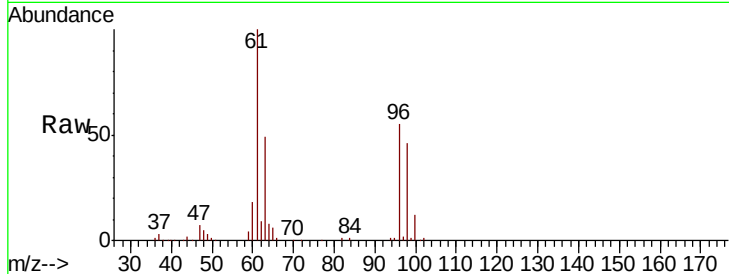




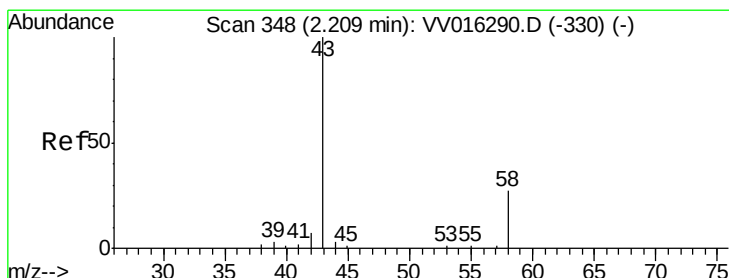
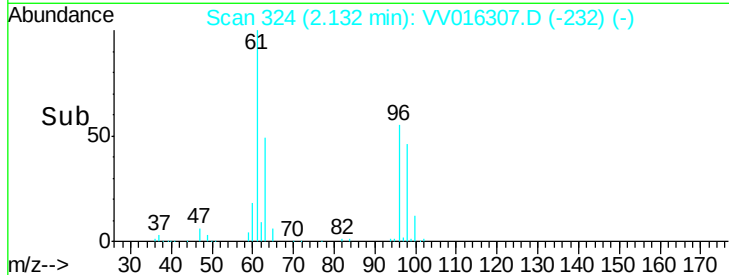
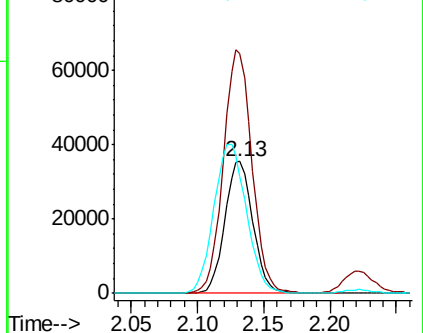
#12
 1,1-Dichloroethene
 Concen: 7.846 ug/L
 RT: 2.13 min Scan# 324
 Delta R.T. -0.00 min
 Lab File: VV016307.D
 Acq: 29 May 2020 04:20

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 96 Resp: 51901
 Ion Ratio Lower Upper
 96 100
 61 181.9 124.9 231.9
 63 89.0 80.4 149.2

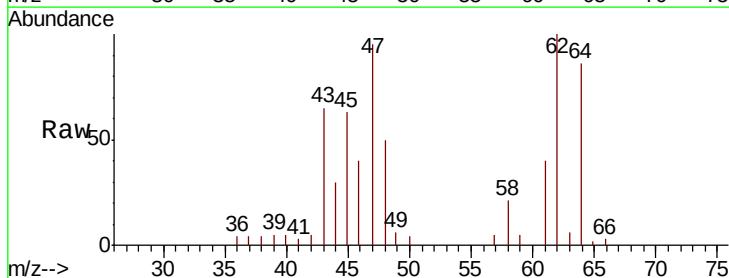


Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 63.00 (62.70 to 63.70): VV0

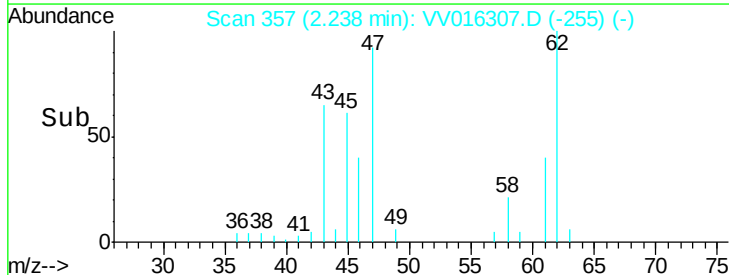
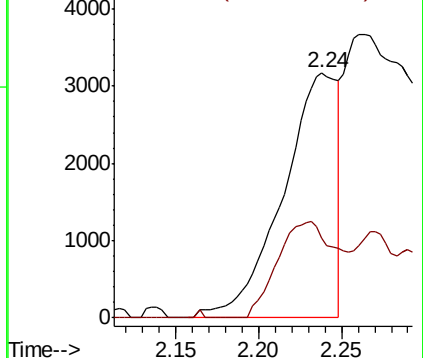


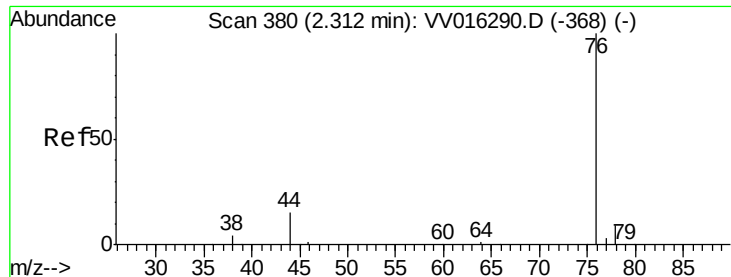
#13
 Acetone
 Concen: 6.574 ug/L
 RT: 2.24 min Scan# 357
 Delta R.T. 0.03 min
 Lab File: VV016307.D
 Acq: 29 May 2020 04:20

Tgt Ion: 43 Resp: 7270
 Ion Ratio Lower Upper
 43 100
 58 43.1 0.0 48.8



Abundance Ion 43.05 (42.75 to 43.75): VV0
 Ion 58.05 (57.75 to 58.75): VV0





#14

Carbon disulfide

Concen: 0.878 ug/L

RT: 2.45 min Scan# 422

Delta R.T. 0.14 min

Lab File: VV016307.D

Acq: 29 May 2020 04:20

Instrument :

MSVOA_V

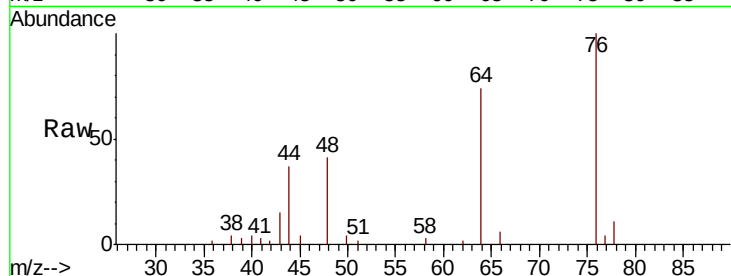
ClientSampleId :

Tot Ion: 76 Resp: 18001

Ion Ratio Lower Upper

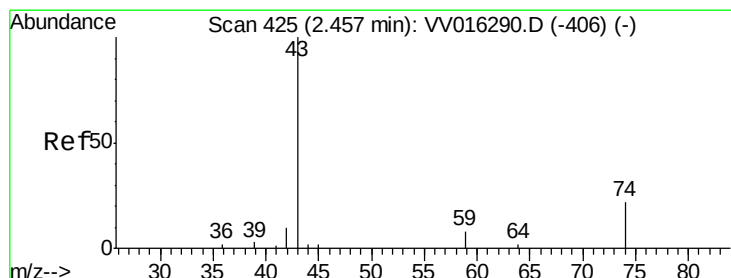
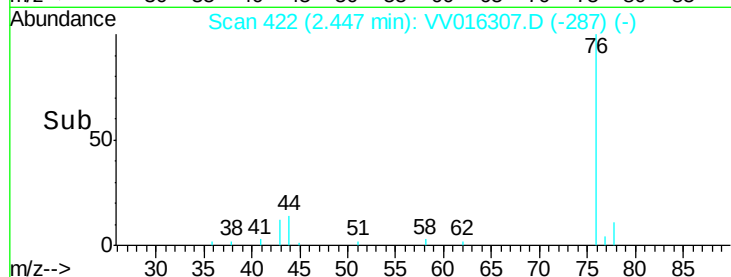
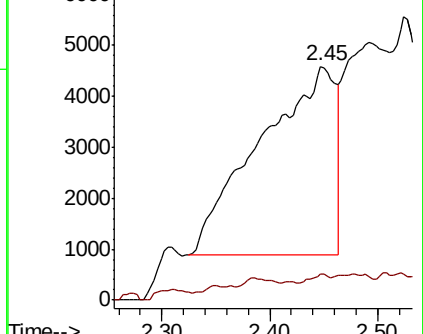
76 100

78 10.9 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: 3.318 ug/L

RT: 2.26 min Scan# 364

Delta R.T. -0.20 min

Lab File: VV016307.D

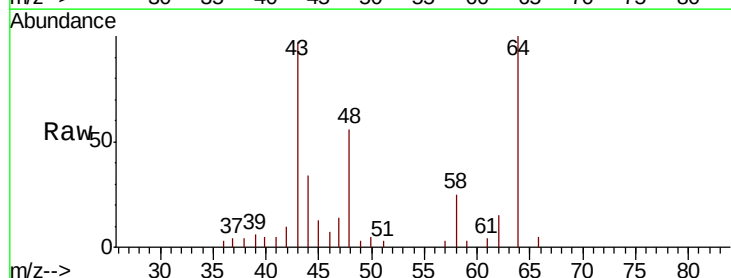
Acq: 29 May 2020 04:20

Tgt Ion: 43 Resp: 9378

Ion Ratio Lower Upper

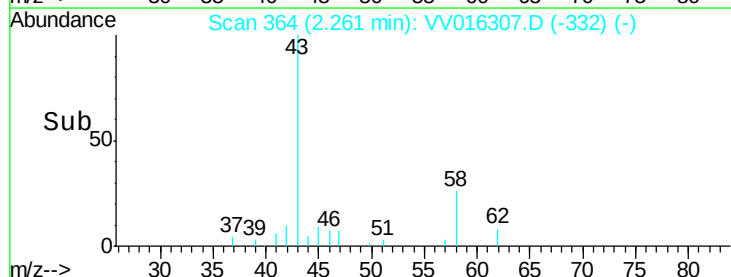
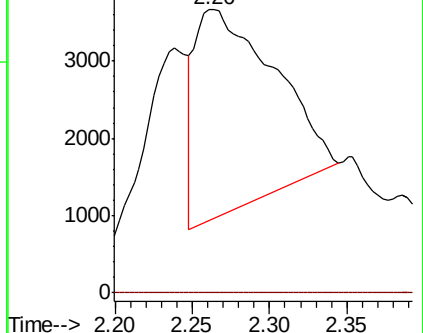
43 100

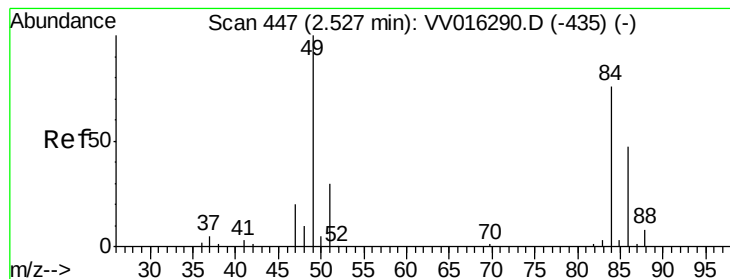
74 0.0 18.1 27.1#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0





#16

Methylene chloride

Concen: 0.111 ug/L

RT: 2.52 min Scan# 446

Delta R.T. -0.00 min

Lab File: VV016307.D

Acq: 29 May 2020 04:20

Instrument :

MSVOA_V

ClientSampled :

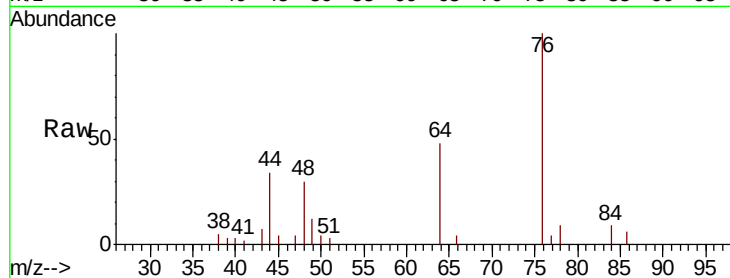
Tot Ion: 84 Resp: 841

Ion Ratio Lower Upper

84 100

86 66.9 44.9 83.5

49 143.7 96.7 179.7



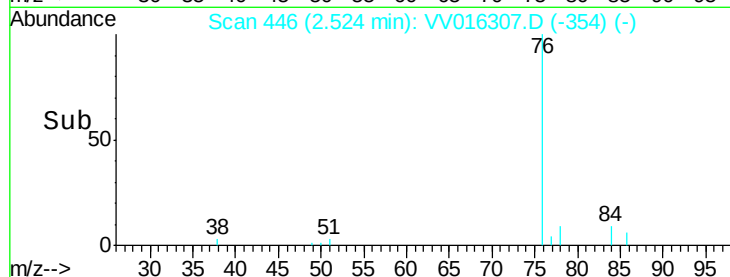
Abundance Ion 84.05 (83.75 to 84.75): VV0

Ion 86.00 (85.70 to 86.70): VV0

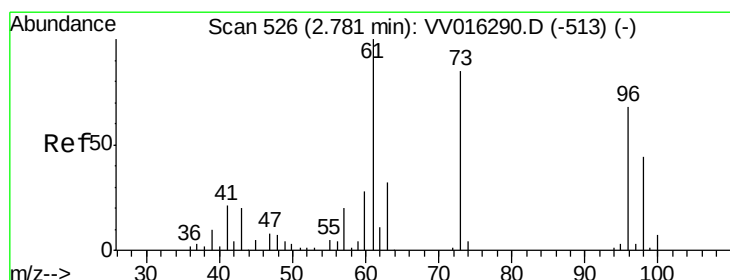
Ion 49.10 (48.80 to 49.80): VV0

2.52

Time-->



Time-->



#18

trans-1,2-Dichloroethene

Concen: 3.118 ug/L

RT: 2.78 min Scan# 524

Delta R.T. -0.01 min

Lab File: VV016307.D

Acq: 29 May 2020 04:20

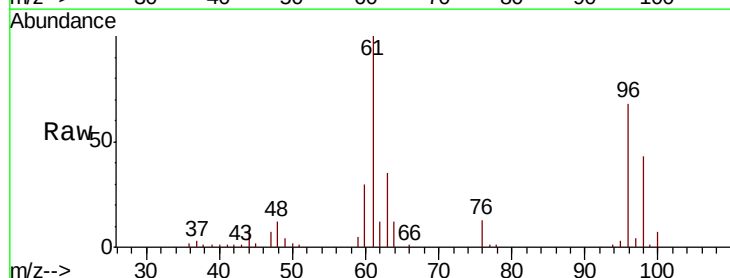
Tgt Ion: 96 Resp: 22571

Ion Ratio Lower Upper

96 100

61 147.8 99.8 185.4

98 63.4 44.0 81.6



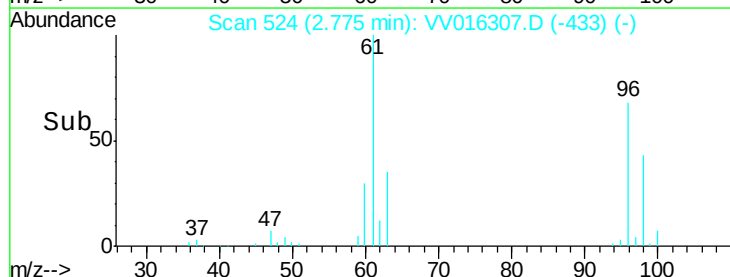
Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

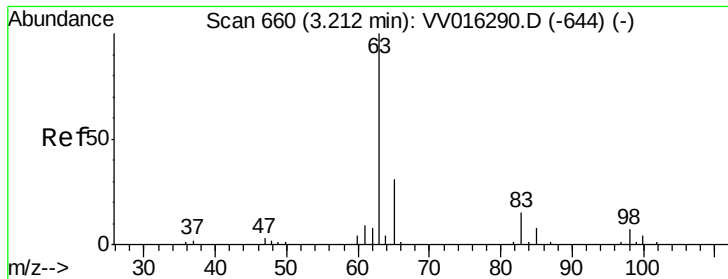
Ion 97.95 (97.65 to 98.65): VV0

2.78

Time-->



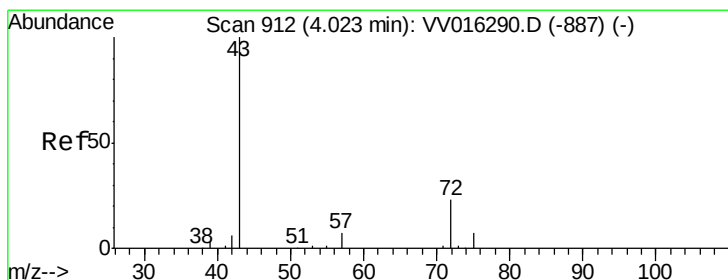
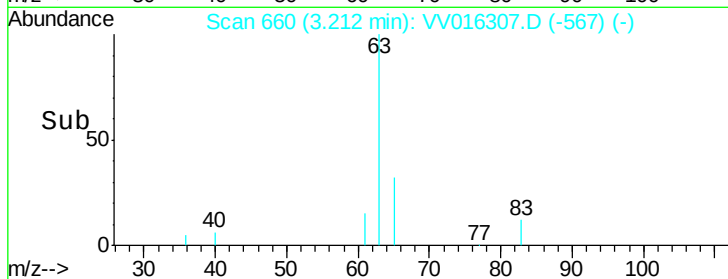
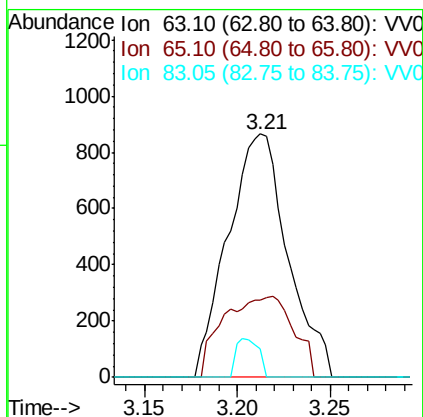
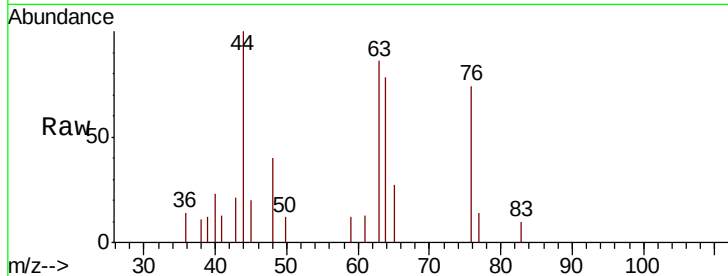
Time-->



#19
 1,1-Dichloroethane
 Concen: 0.141 ug/L
 RT: 3.21 min Scan# 660
 Delta R.T. 0.00 min
 Lab File: VV016307.D
 Acq: 29 May 2020 04:20

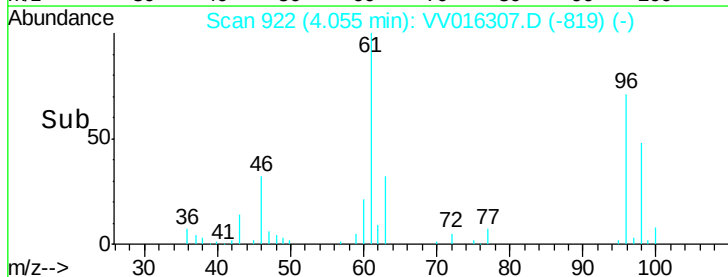
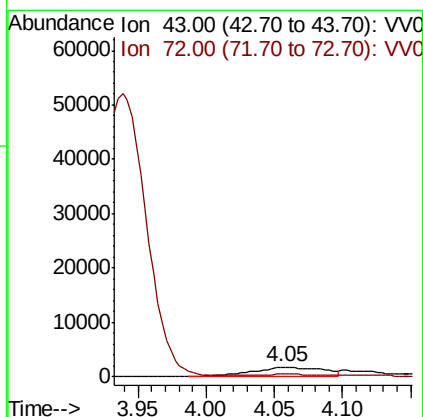
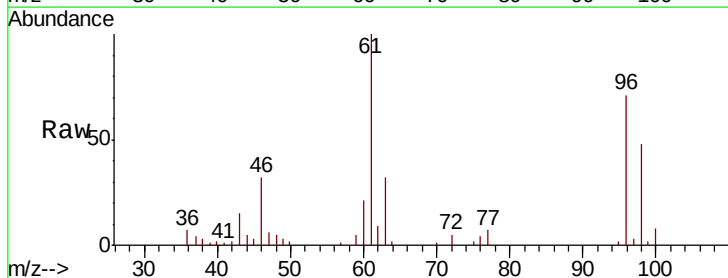
Instrument :
 MSVOA_V
 ClientSampleId :

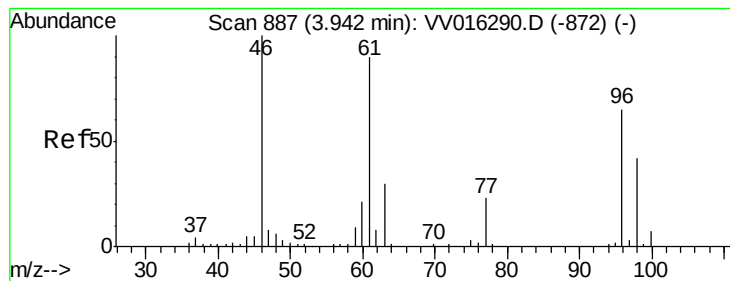
Tot Ion: 63 Resp: 1940
 Ion Ratio Lower Upper
 63 100
 65 31.8 22.3 41.5
 83 11.9 9.4 17.4



#21
 2-Butanone
 Concen: 2.905 ug/L
 RT: 4.05 min Scan# 922
 Delta R.T. 0.03 min
 Lab File: VV016307.D
 Acq: 29 May 2020 04:20

Tgt Ion: 43 Resp: 5716
 Ion Ratio Lower Upper
 43 100
 72 2224.3 9.7 28.9#



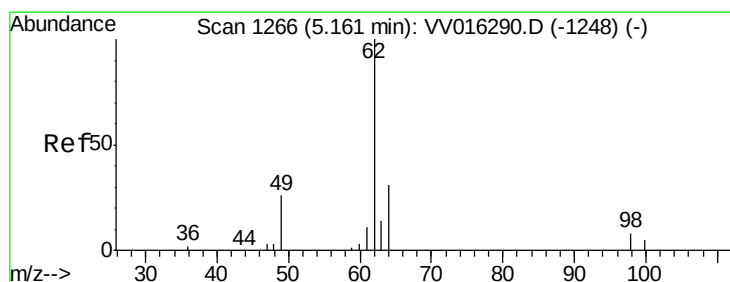
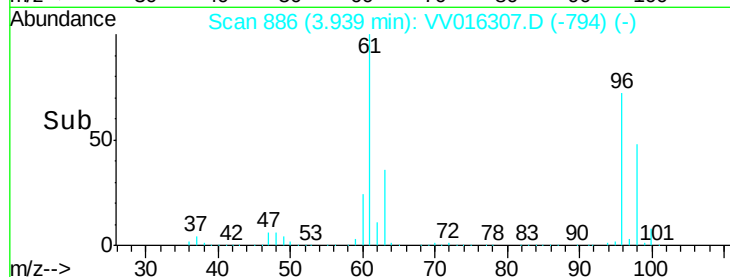
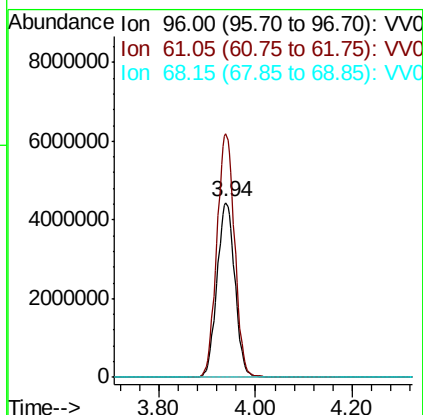
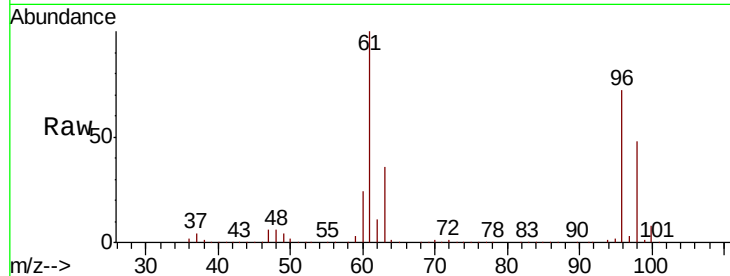


#22

cis-1,2-Dichloroethene
 Concen: 1334.479 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. -0.00 min
 Lab File: VV016307.D
 Acq: 29 May 2020 04:20

Instrument :
 MSVOA_V
 ClientSampleId :

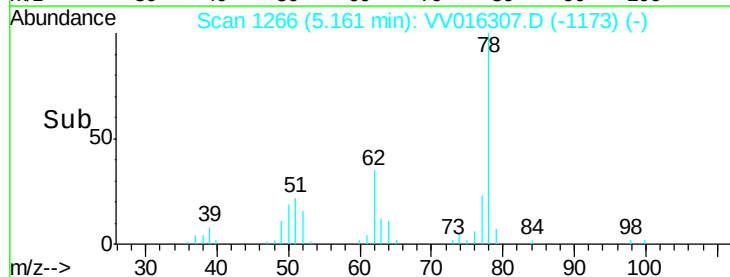
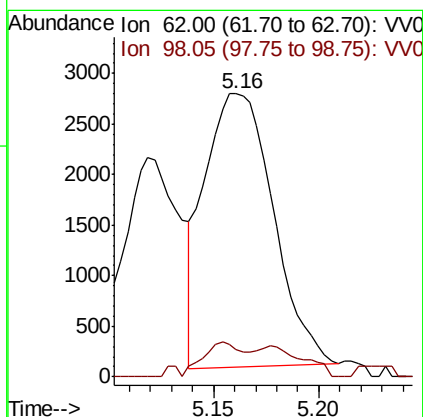
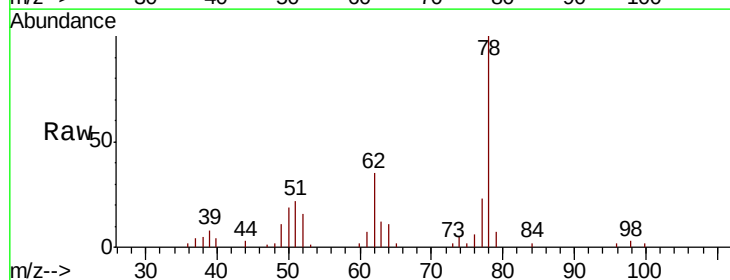
Tot Ion: 96 Resp:11425183
 Ion Ratio Lower Upper
 96 100
 61 139.5 99.7 185.1
 68 0.0 0.0 0.0#

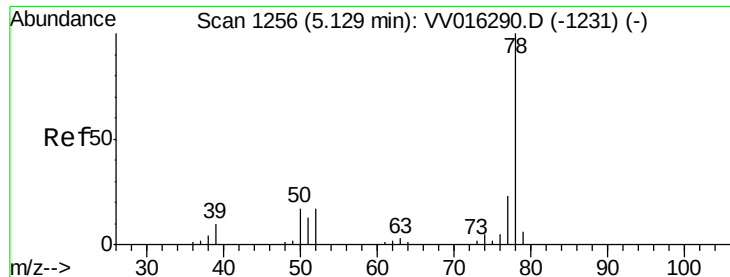


#27

1,2-Dichloroethane
 Concen: 0.642 ug/L
 RT: 5.16 min Scan# 1266
 Delta R.T. 0.00 min
 Lab File: VV016307.D
 Acq: 29 May 2020 04:20

Tgt Ion: 62 Resp: 6104
 Ion Ratio Lower Upper
 62 100
 98 9.7 5.7 8.5#





#33

Benzene

Concen: 15.536 ug/L

RT: 5.12 min Scan# 1254

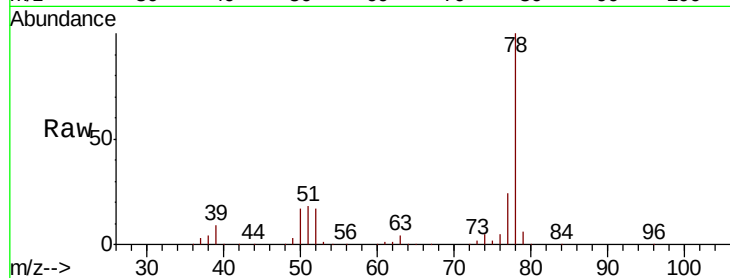
Delta R.T. -0.01 min

Lab File: VV016307.D

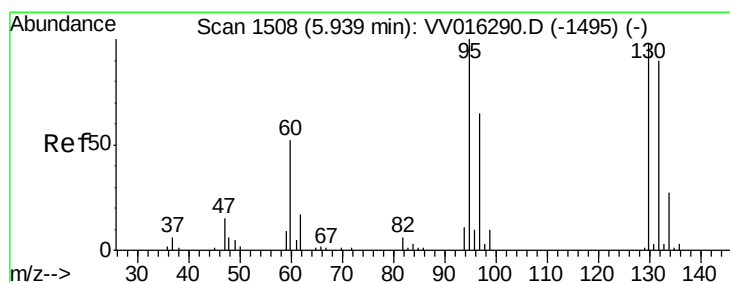
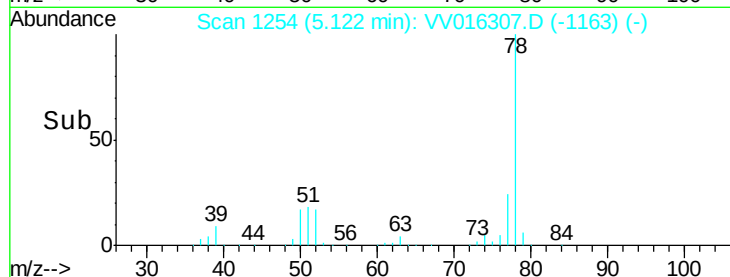
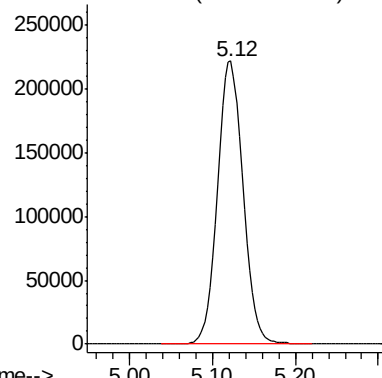
Acq: 29 May 2020 04:20

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 78 Resp: 475982



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 1.178 ug/L

RT: 5.94 min Scan# 1508

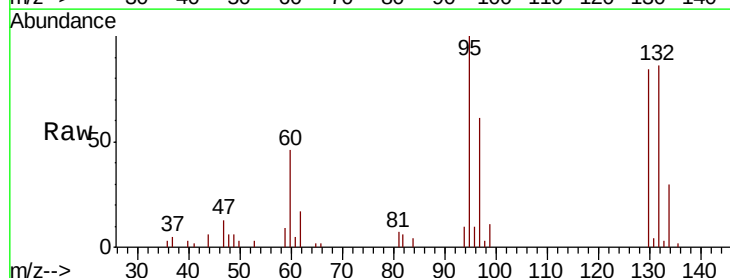
Delta R.T. 0.00 min

Lab File: VV016307.D

Acq: 29 May 2020 04:20

Tgt Ion: 95 Resp: 9404

Ion	Ratio	Lower	Upper
95	100		
97	60.9	43.6	81.0
132	86.3	63.9	118.7
130	84.2	65.2	121.0

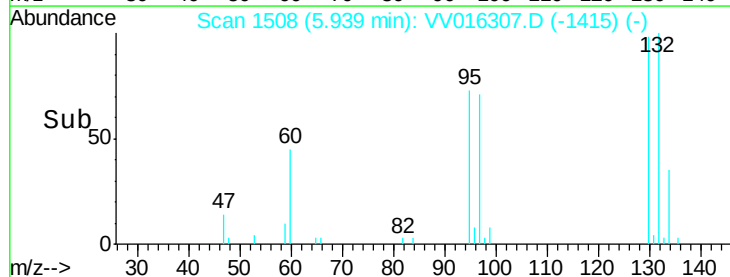
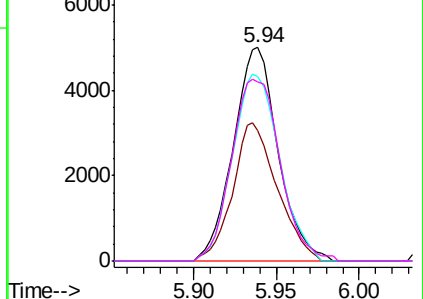


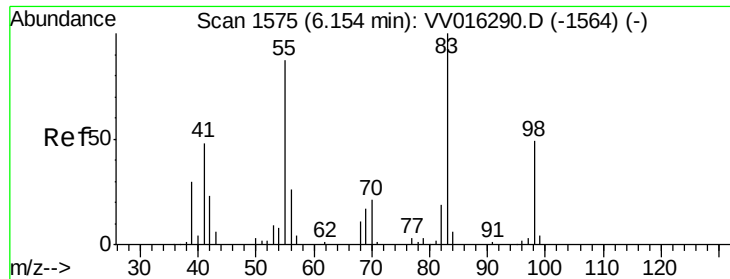
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

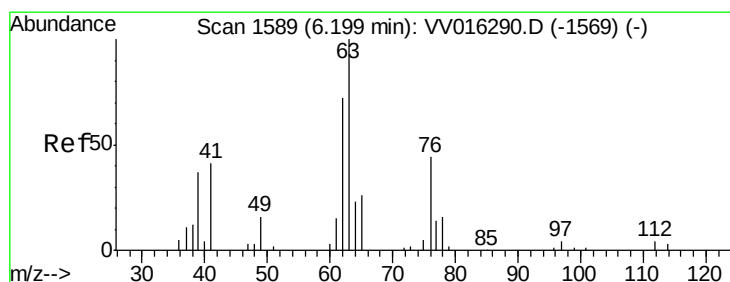
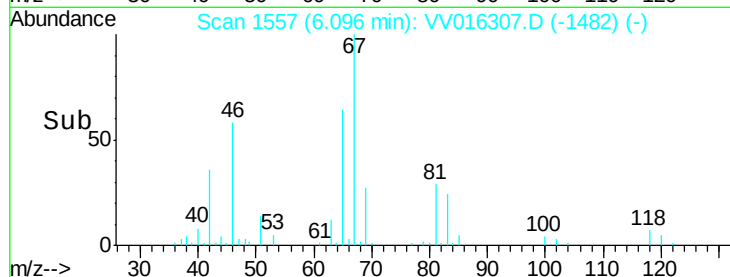
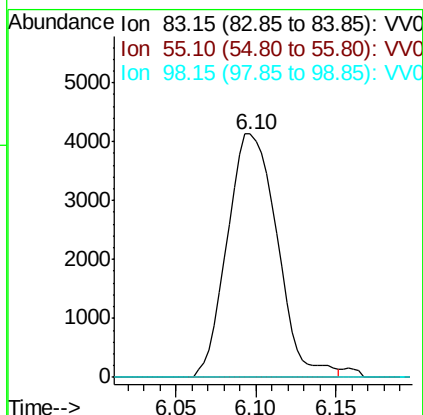
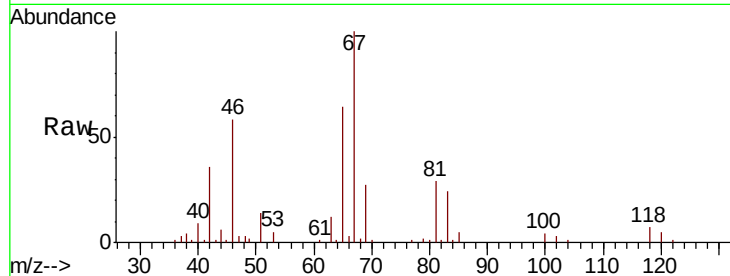




#35
Methylvlcyclohexane
Concen: 0.657 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.06 min
Lab File: VV016307.D
Acq: 29 May 2020 04:20

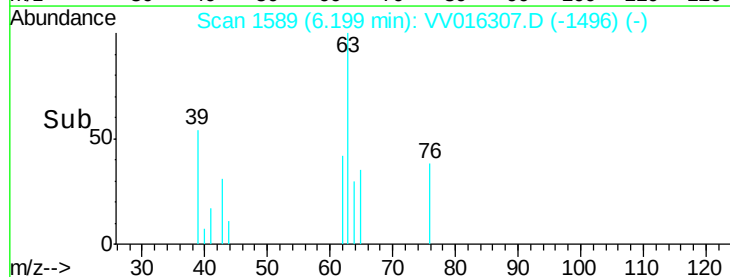
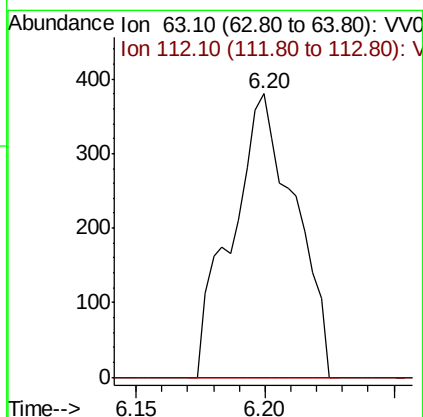
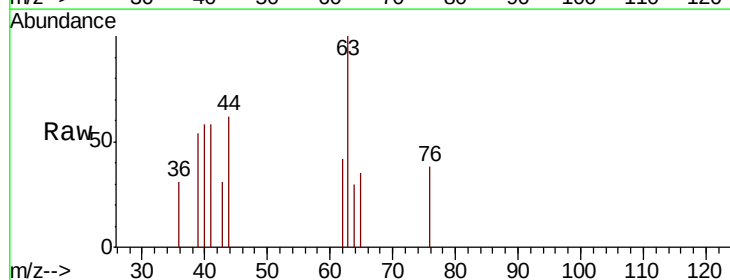
Instrument :
MSVOA_V
ClientSampleId :

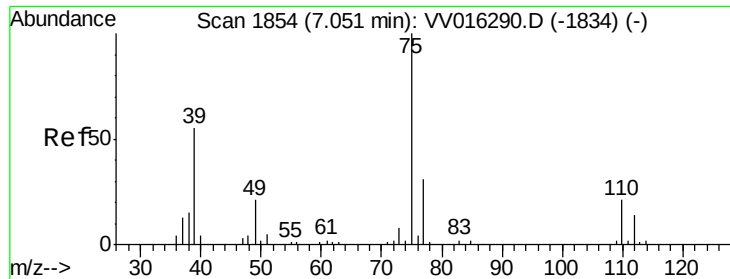
Tot Ion: 83 Resp: 8837
Ion Ratio Lower Upper
83 100
55 0.4 65.4 98.0#
98 11.2 39.3 58.9#



#37
1,2-Dichloropropane
Concen: 0.086 ug/L
RT: 6.20 min Scan# 1589
Delta R.T. 0.00 min
Lab File: VV016307.D
Acq: 29 May 2020 04:20

Tgt Ion: 63 Resp: 649
Ion Ratio Lower Upper
63 100
112 0.0 3.1 4.7#

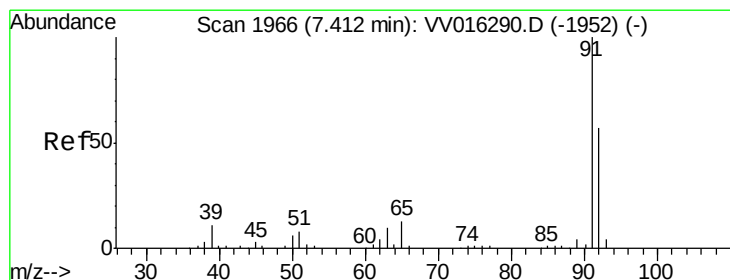
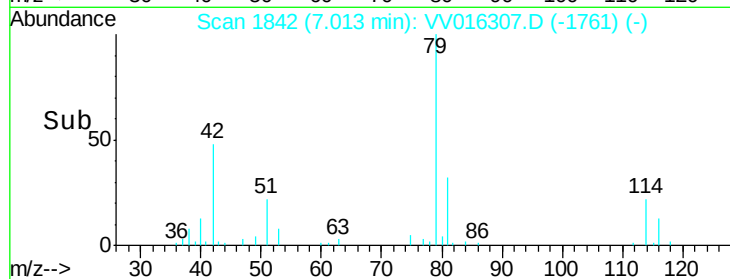
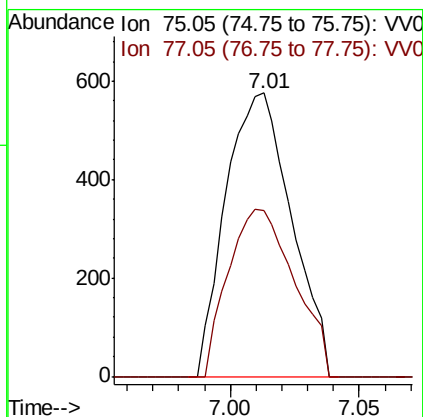
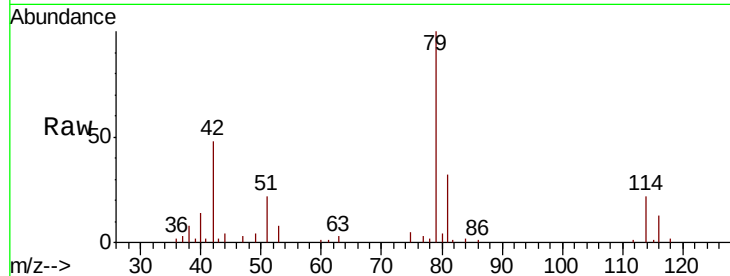




#39
 cis-1,3-Dichloropropene
 Concen: 0.096 ug/L
 RT: 7.01 min Scan# 1842
 Delta R.T. -0.04 min
 Lab File: VV016307.D
 Acq: 29 May 2020 04:20

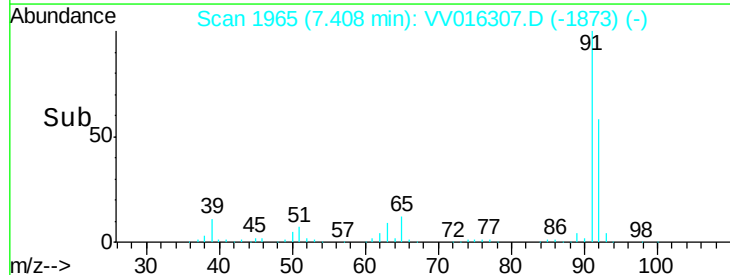
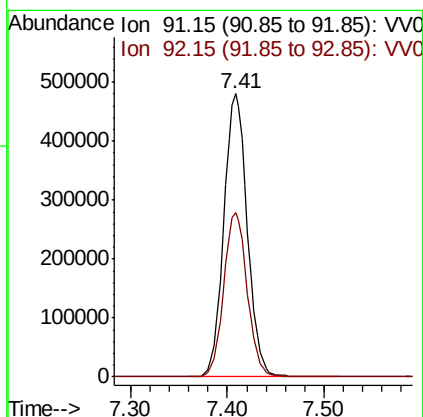
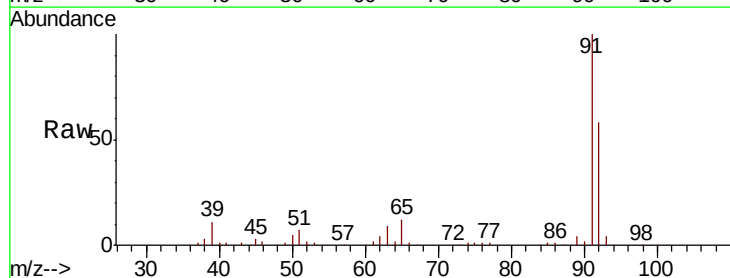
Instrument :
 MSVOA_V
 ClientSampleId :

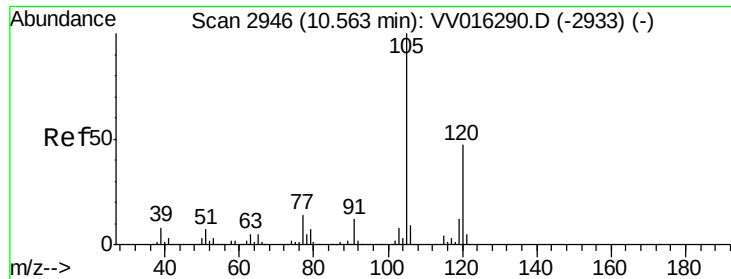
Tot Ion: 75 Resp: 1023
 Ion Ratio Lower Upper
 75 100
 77 58.7 21.7 40.3#



#42
 Toluene
 Concen: 24.172 ug/L
 RT: 7.41 min Scan# 1965
 Delta R.T. -0.00 min
 Lab File: VV016307.D
 Acq: 29 May 2020 04:20

Tgt Ion: 91 Resp: 807618
 Ion Ratio Lower Upper
 91 100
 92 58.3 40.9 76.0





#43

1,3,5-Trimethylbenzene

Concen: 6.404 ug/L

RT: 10.56 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VV016307.D

Acq: 29 May 2020 04:20

Instrument :

MSVOA_V

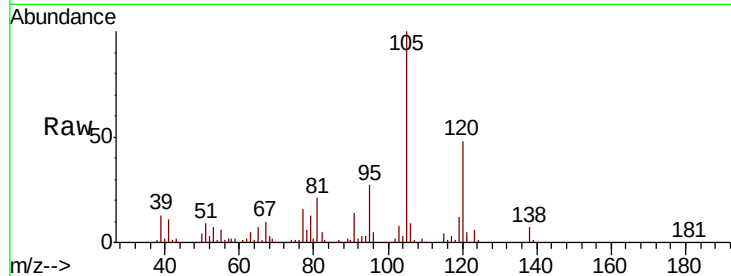
ClientSampleId :

Tot Ion:105 Resp: 194780

Ion Ratio Lower Upper

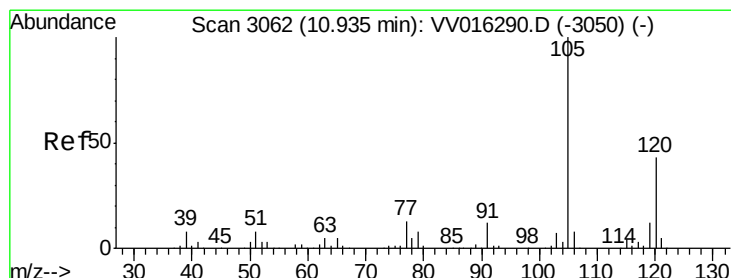
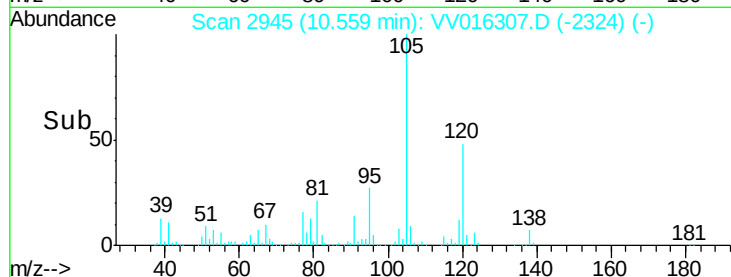
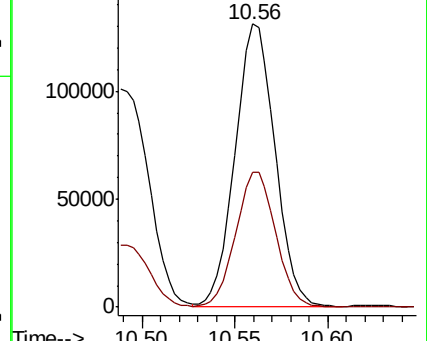
105 100

120 47.6 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: 16.021 ug/L

RT: 10.94 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VV016307.D

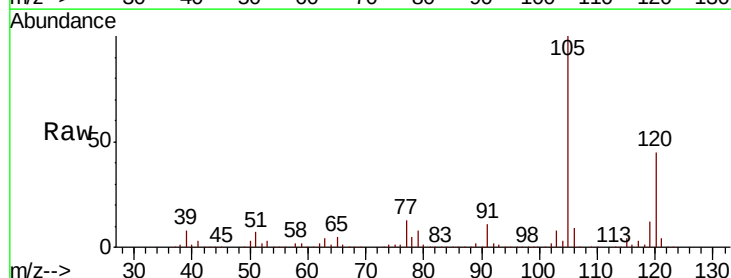
Acq: 29 May 2020 04:20

Tgt Ion:105 Resp: 501879

Ion Ratio Lower Upper

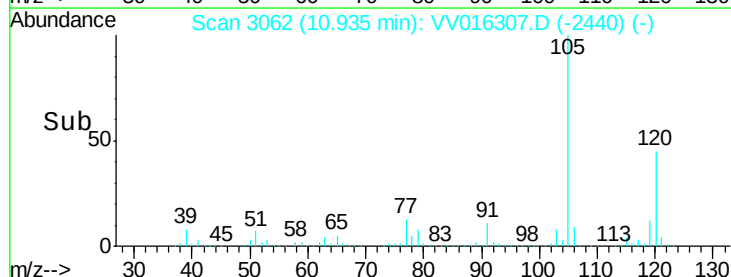
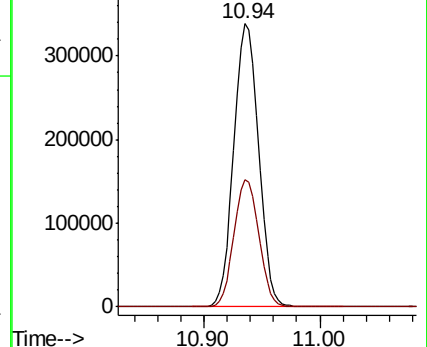
105 100

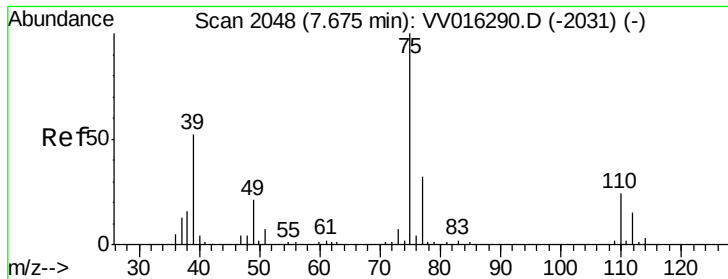
120 45.1 34.6 52.0



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

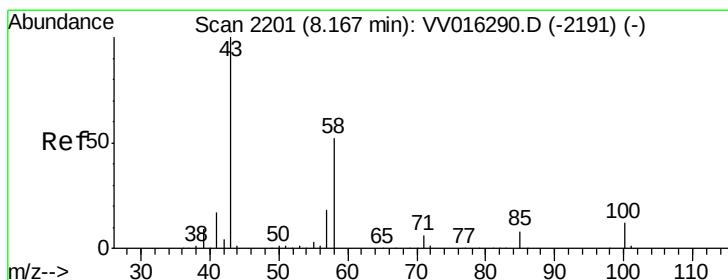
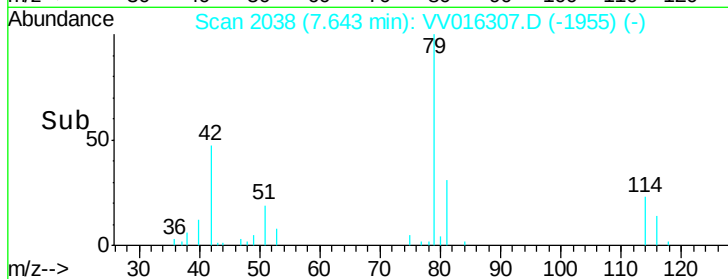
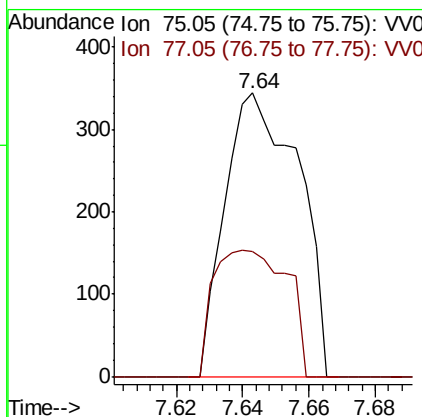
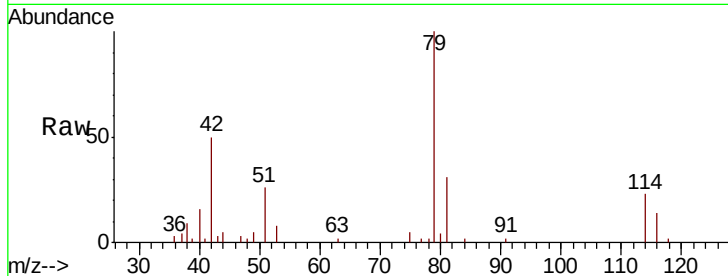




#46
trans-1,3-Dichloropropene
Concen: 0.060 ug/L
RT: 7.64 min Scan# 2038
Delta R.T. -0.03 min
Lab File: VV016307.D
Acq: 29 May 2020 04:20

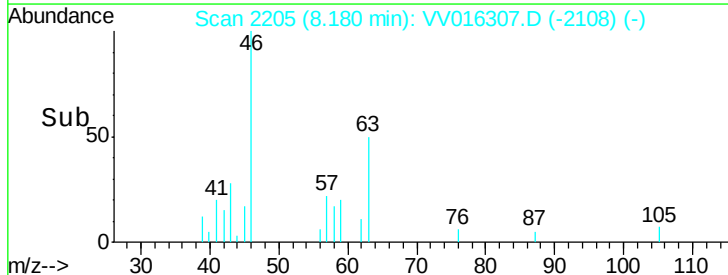
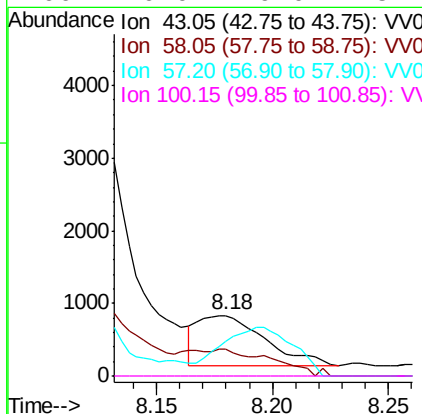
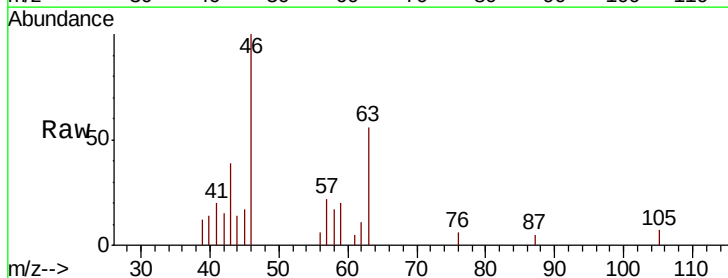
Instrument :
MSVOA_V
ClientSampleId :

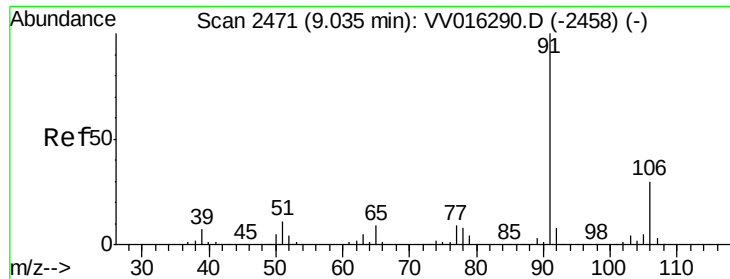
Tot Ion: 75 Resp: 533
Ion Ratio Lower Upper
75 100
77 44.2 21.7 40.3#



#50
2-Hexanone
Concen: 0.427 ug/L
RT: 8.18 min Scan# 2205
Delta R.T. 0.01 min
Lab File: VV016307.D
Acq: 29 May 2020 04:20

Tgt Ion: 43 Resp: 1391
Ion Ratio Lower Upper
43 100
58 0.0 41.4 62.0#
57 105.5 15.0 22.4#
100 0.0 9.0 13.4#





#54

Ethylbenzene

Concen: 17.665 ug/L

RT: 9.03 min Scan# 2470

Delta R.T. -0.00 min

Lab File: VV016307.D

Acq: 29 May 2020 04:20

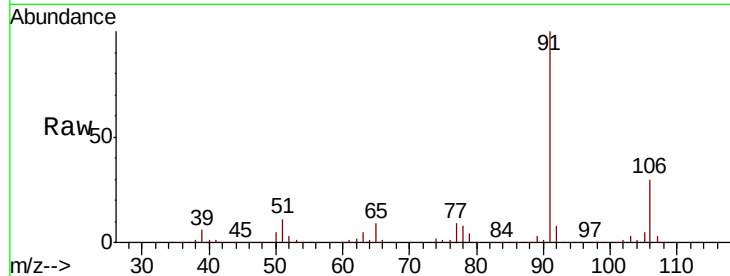
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 91 Resp: 657874

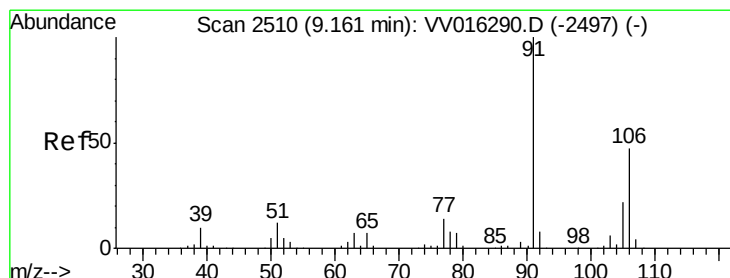
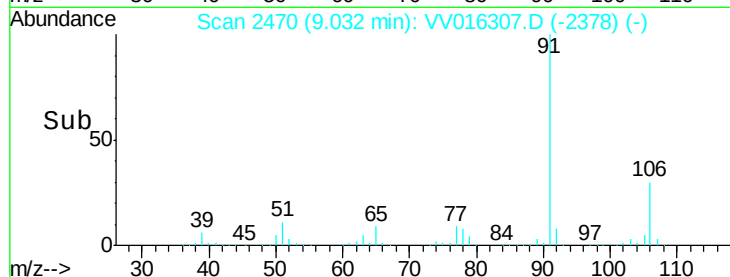
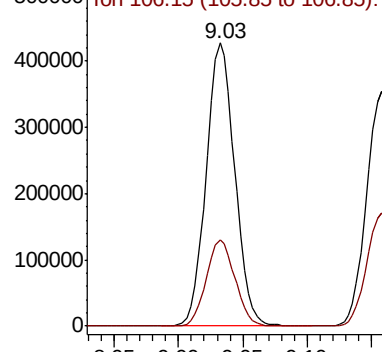
Ion Ratio Lower Upper

91 100

106 30.3 21.0 39.0



Abundance Ion 91.15 (90.85 to 91.85): VV016307.D (-2378) (-)



#55

m,p-xylene

Concen: 19.405 ug/L

RT: 9.16 min Scan# 2509

Delta R.T. -0.00 min

Lab File: VV016307.D

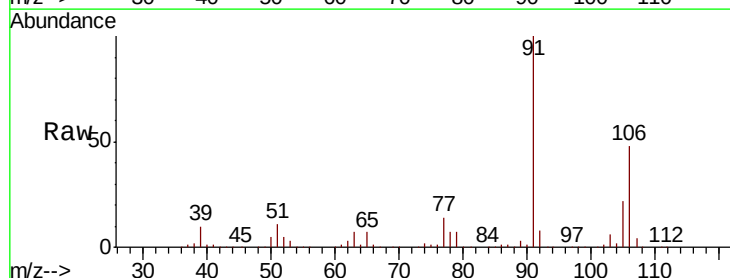
Acq: 29 May 2020 04:20

Tgt Ion: 106 Resp: 270991

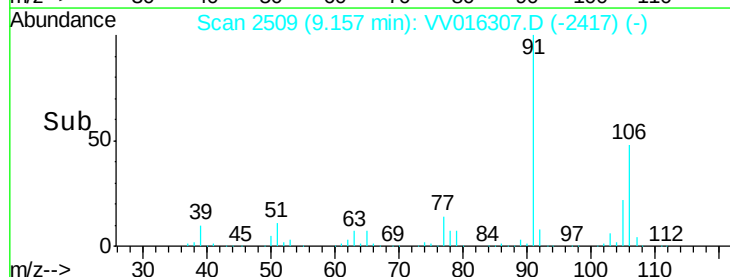
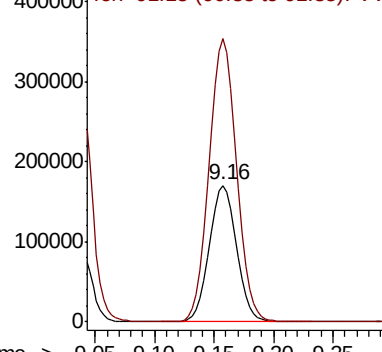
Ion Ratio Lower Upper

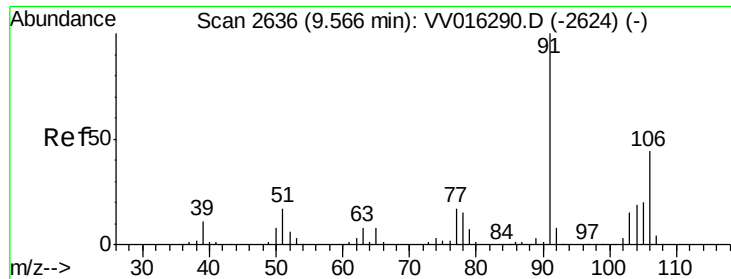
106 100

91 206.9 148.1 275.0



Abundance Ion 106.15 (105.85 to 106.85): VV016307.D (-2417) (-)

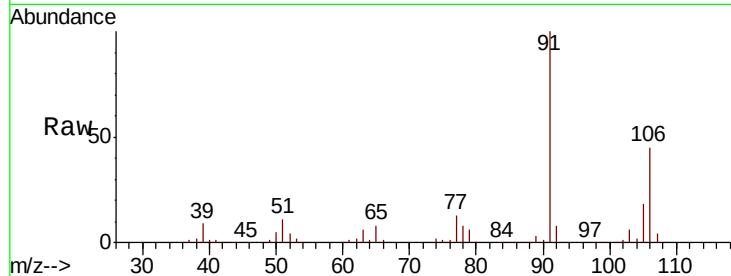




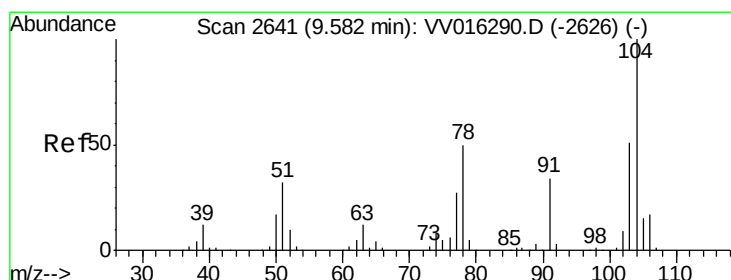
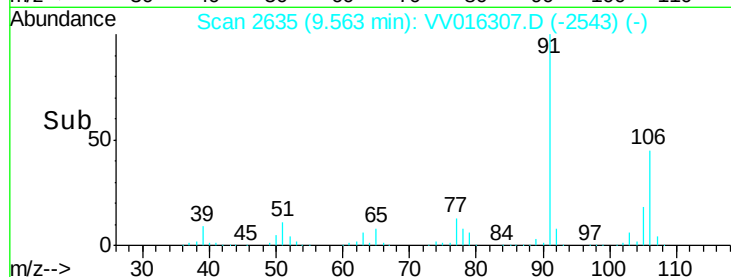
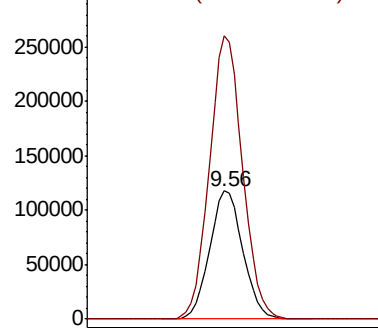
#56
o-xylene
Concen: 13.654 ug/L
RT: 9.56 min Scan# 2635
Delta R.T. -0.00 min
Lab File: VV016307.D
Acq: 29 May 2020 04:20

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:106 Resp: 181711
Ion Ratio Lower Upper
106 100
91 220.9 158.8 294.8

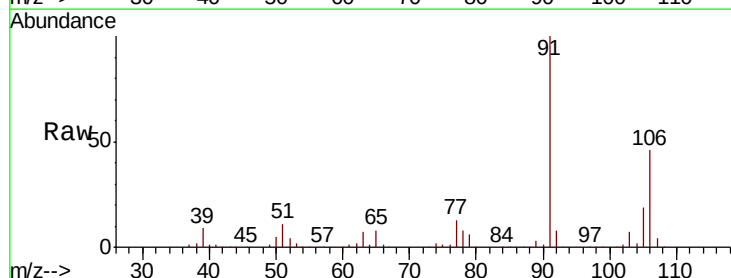


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

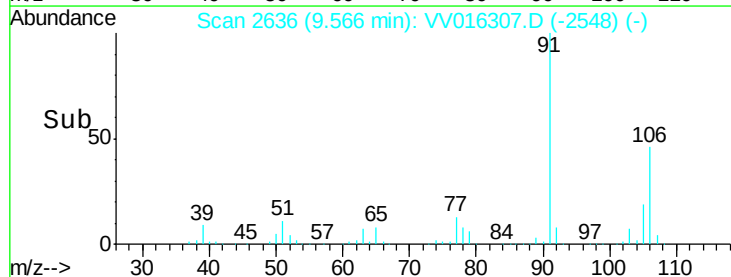
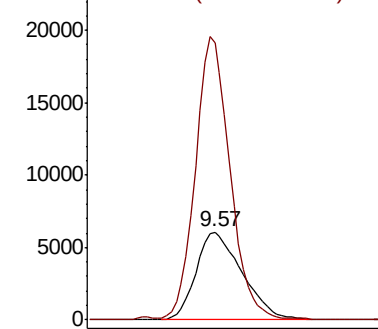


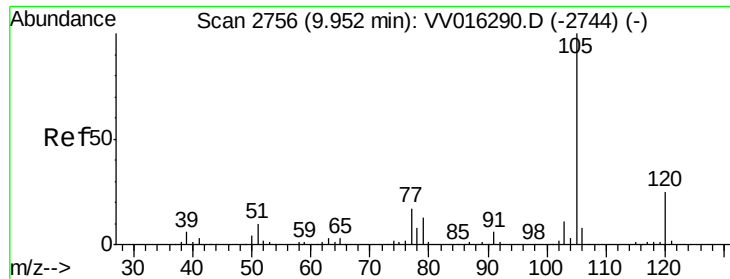
#57
Styrene
Concen: 0.585 ug/L
RT: 9.57 min Scan# 2636
Delta R.T. -0.02 min
Lab File: VV016307.D
Acq: 29 May 2020 04:20

Tgt Ion:104 Resp: 12965
Ion Ratio Lower Upper
104 100
78 314.5 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: 1.045 ug/L

RT: 9.95 min Scan# 2756

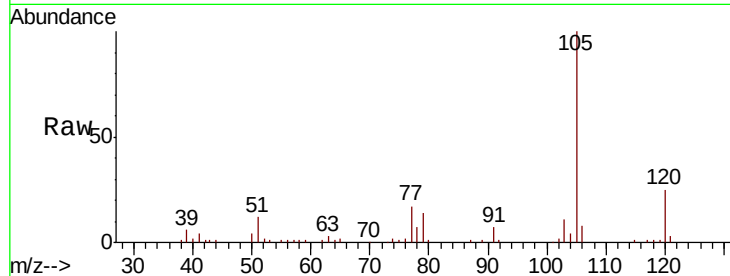
Delta R.T. 0.00 min

Lab File: VV016307.D

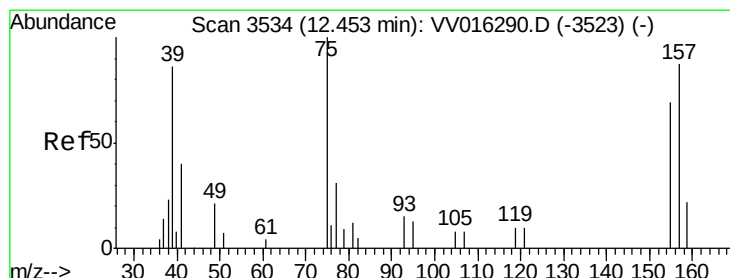
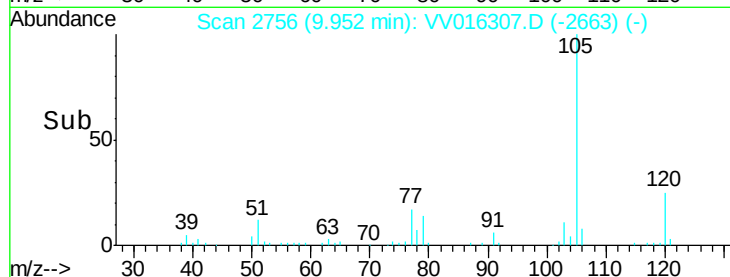
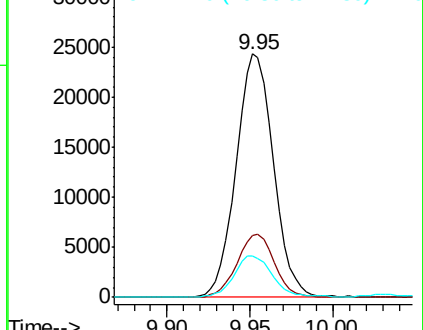
Acq: 29 May 2020 04:20

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:	105	Resp:	38095
Ion	Ratio	Lower	Upper
105	100		
120	25.7	20.9	31.3
77	17.7	13.9	20.9



Abundance Ion 105.05 (104.75 to 105.75): VV016290.D (-2744) (-)



#67

1,2-Dibromo-3-chloropropane

Concen: 39.568 ug/L

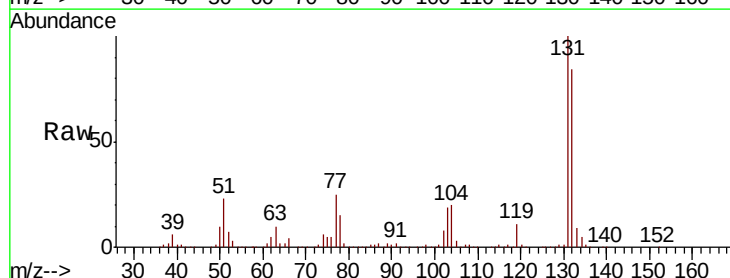
RT: 12.49 min Scan# 3545

Delta R.T. 0.04 min

Lab File: VV016307.D

Acq: 29 May 2020 04:20

Tgt Ion:	75	Resp:	40035
Ion	Ratio	Lower	Upper
75	100		
155	0.0	56.2	84.4#
157	0.0	71.9	107.9#



Abundance Ion 75.05 (74.75 to 75.75): VV016290.D (-3523) (-)

