

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV062320\
 Data File : VV017037.D
 Acq On : 22 Jun 2020 23:21
 Operator : SY/MD
 Sample : L3067-19
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXH6

Manual Integrations
 APPROVED

MMDadoda
 6/24/2020 8:57:45 AM

Quant Time: Jun 23 06:51:38 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Tue Jun 23 04:53:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	185719	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	179133	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	91044	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	45373	4.07	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	81.40%
7) Chloroethane-d5	1.58	69	34532	4.26	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	85.20%
11) 1,1-Dichloroethene-d2	2.13	63	1357676	64.00	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	1280.00%#
20) 2-Butanone-d5	3.96	46	112952m	39.76	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	79.52%
24) Chloroform-d	4.38	84	113398	4.76	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.20%
26) 1,2-Dichloroethane-d4	5.06	65	61253	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.00%
32) Benzene-d6	5.08	84	220364	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.80%
36) 1,2-Dichloropropane-d6	6.10	67	65579	4.71	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.20%
41) Toluene-d8	7.34	98	208637	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.80%
45) trans-1,3-Dichloropropene-	7.64	79	27298	4.71	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.20%
48) 2-Hexanone-d5	8.12	63	94752	42.92	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	85.84%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	47284	5.11	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.20%
65) 1,2-Dichlorobenzene-d4	11.65	152	83014	4.93	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	220881	18.125	ug/L	100
8) Chloroethane	1.59	64	306166	45.459	ug/L	99
12) 1,1-Dichloroethene	2.13	96	2194924	246.253	ug/L #	65
14) Carbon disulfide	2.31	76	8952	0.335	ug/L	97
16) Methylene chloride	2.52	84	7692	0.806	ug/L	84
18) trans-1,2-Dichloroethene	2.78	96	26601	2.816	ug/L	92
19) 1,1-Dichloroethane	3.20	63	25226720m	1188.693	ug/L	
22) cis-1,2-Dichloroethene	3.94	96	292457	22.643	ug/L	99
25) Chloroform	4.41	83	12198	0.526	ug/L	97
27) 1,2-Dichloroethane	5.16	62	42574	2.956	ug/L	97
29) 1,1,1-Trichloroethane	4.63	97	50610471m	2358.212	ug/L	
33) Benzene	5.13	78	64562	1.376	ug/L	100
34) Trichloroethene	5.94	95	41365	3.011	ug/L	99
35) Methylcyclohexane	6.15	83	8466	0.396	ug/L	96
37) 1,2-Dichloropropane	6.20	63	3009	0.259	ug/L #	84
42) Toluene	7.41	91	162620	2.982	ug/L	98
47) 1,1,2-Trichloroethane	7.86	97	26809	3.255	ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Tetrachloroethene	8.00	164	24428	2.209	ug/L	97
53) Chlorobenzene	8.90	112	416574	12.252	ug/L	98
54) Ethylbenzene	9.04	91	25715	0.442	ug/L	99
55) m,p-xylene	9.16	106	18496	0.810	ug/L	100
56) o-xylene	9.57	106	25487	1.196	ug/L	98
58) Isopropylbenzene	9.95	105	19491	0.332	ug/L #	94
60) 1,1,2,2-Tetrachloroethane	10.26	83	10442	1.226	ug/L	98
63) 1,3-Dichlorobenzene	11.21	146	13794	0.503	ug/L	93
64) 1,4-Dichlorobenzene	11.29	146	46967	1.686	ug/L	99
66) 1,2-Dichlorobenzene	11.67	146	200241	8.050	ug/L	99

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

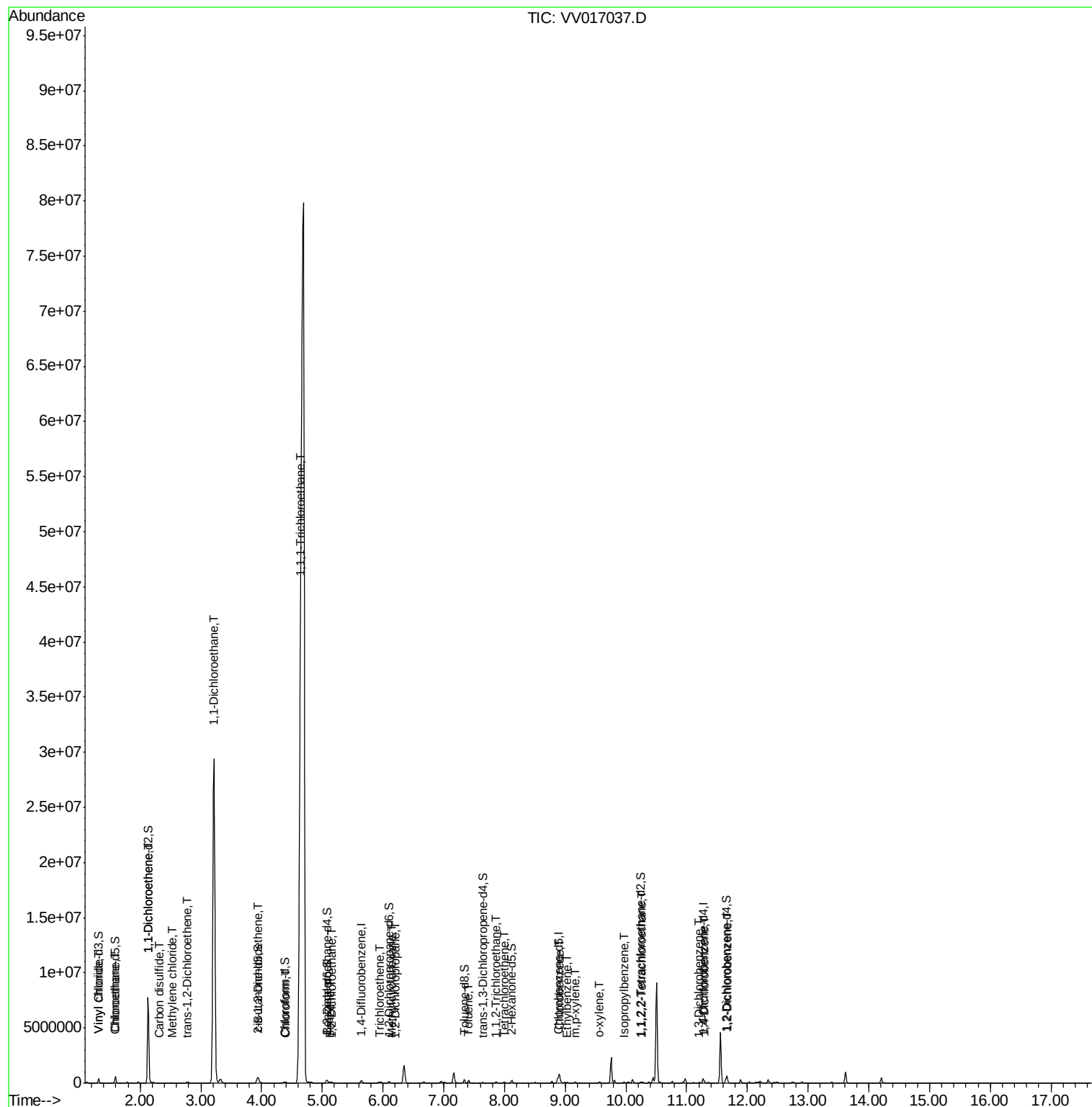
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV062320\
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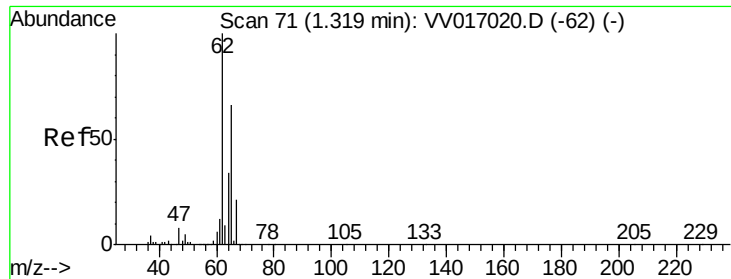
Instrument :
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QLast Update : Tue Jun 23 04:53:49 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 18.125 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV017037.D

Acq: 22 Jun 2020 23:21

Instrument :

MSVOA_V

ClientSampled :

BFXH6

Tot Ion: 62 Resp: 220881

Ion Ratio Lower Upper

62 100

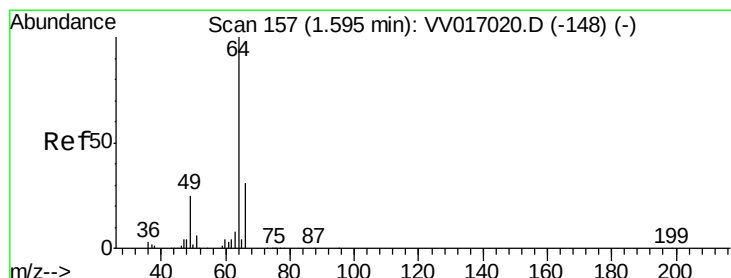
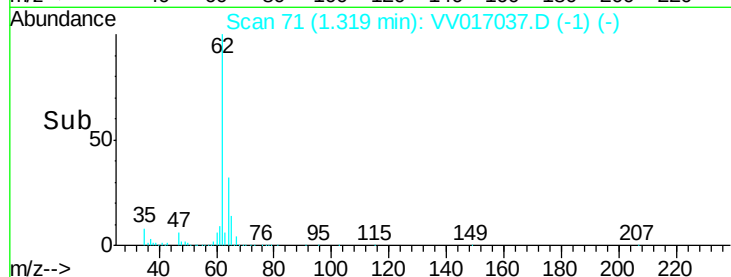
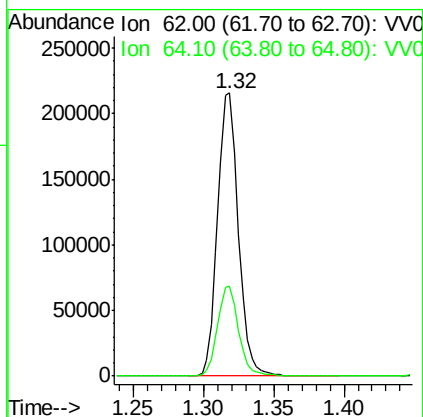
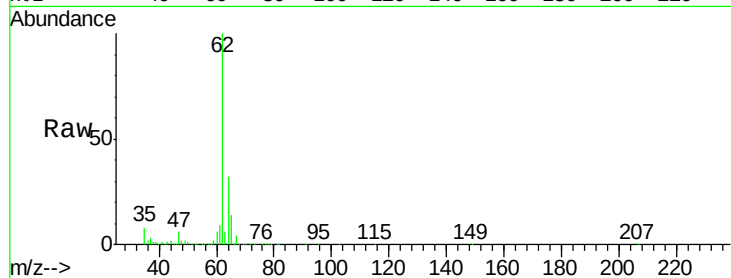
64 31.9 22.5 41.7

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#8

Chloroethane

Concen: 45.459 ug/L

RT: 1.59 min Scan# 156

Delta R.T. -0.00 min

Lab File: VV017037.D

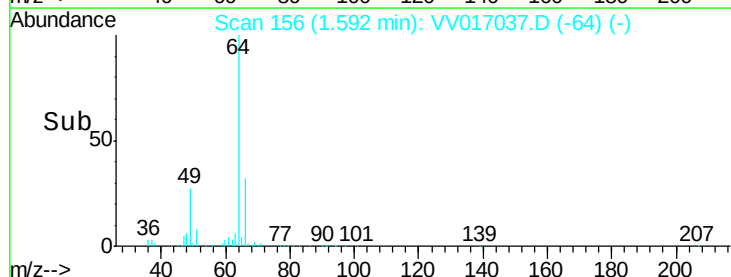
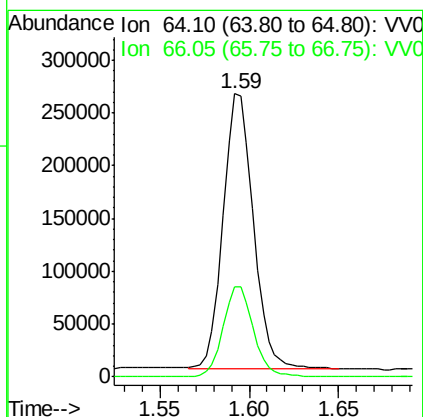
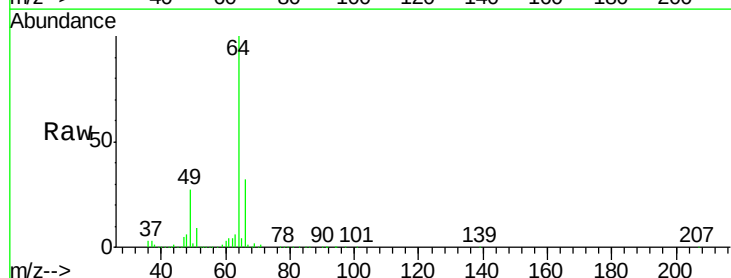
Acq: 22 Jun 2020 23:21

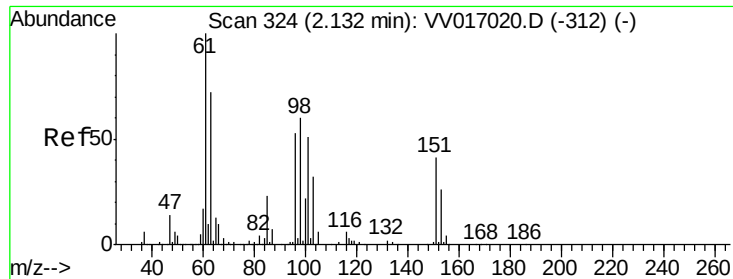
Tgt Ion: 64 Resp: 306166

Ion Ratio Lower Upper

64 100

66 31.9 22.8 42.4





#12

1,1-Dichloroethene

Concen: 246.253 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV017037.D

Acq: 22 Jun 2020 23:21

Instrument :

MSVOA_V

ClientSampleId :

BFXH6

Tot Ion: 96 Resp: 2194924

Ion Ratio Lower Upper

96 100

61 179.3 125.0 232.2

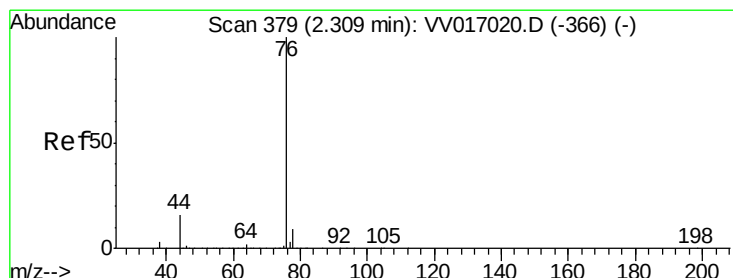
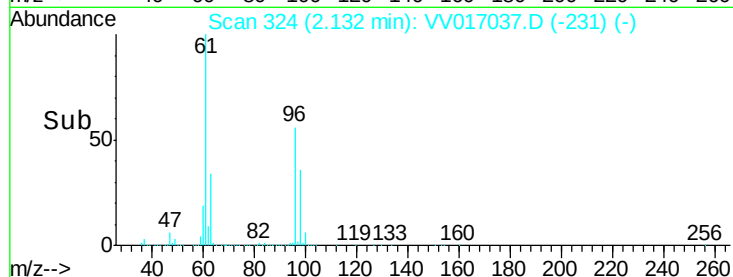
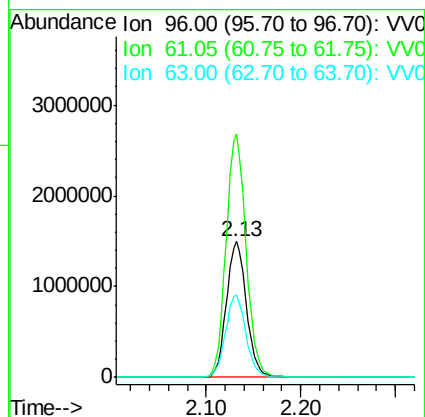
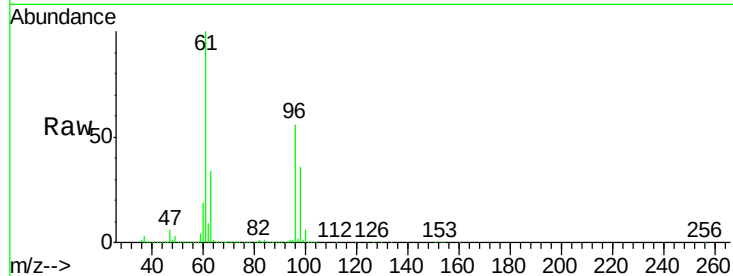
63 60.7 109.8 203.8#

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#14

Carbon disulfide

Concen: 0.335 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.00 min

Lab File: VV017037.D

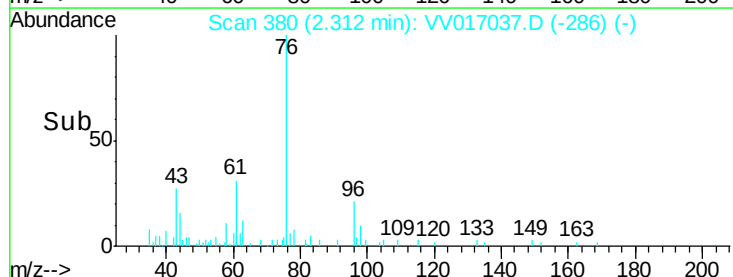
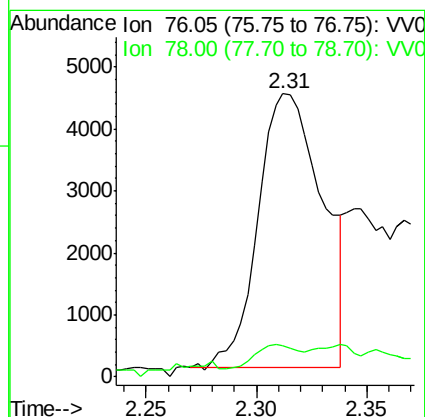
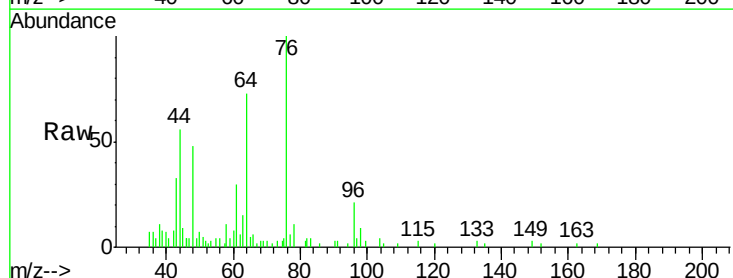
Acq: 22 Jun 2020 23:21

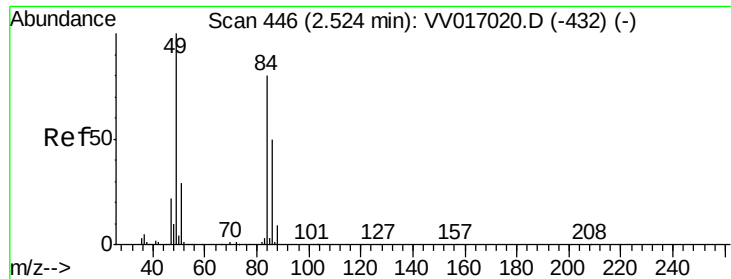
Tgt Ion: 76 Resp: 8952

Ion Ratio Lower Upper

76 100

78 10.8 7.7 11.5





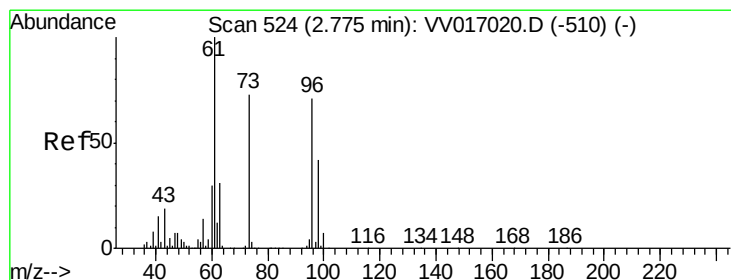
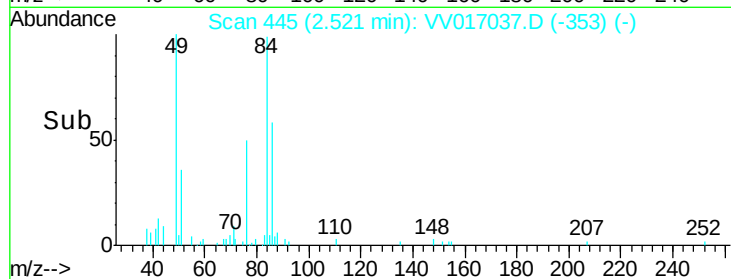
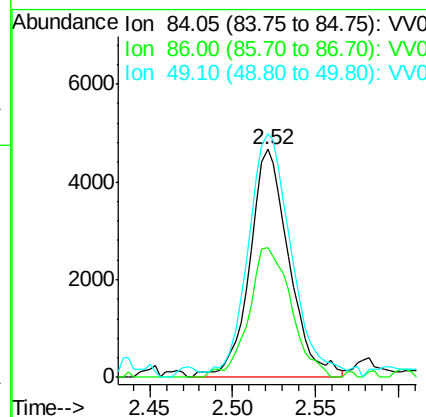
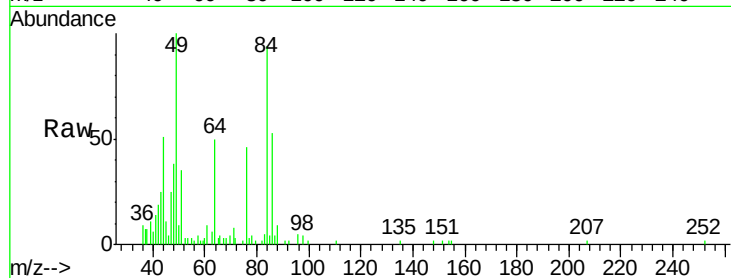
#16
Methylene chloride
Concen: 0.806 ug/L
RT: 2.52 min Scan# 445
Delta R.T. -0.00 min
Lab File: VV017037.D
Acq: 22 Jun 2020 23:21

Instrument :
MSVOA_V
ClientSampleId :
BFXH6

Tot Ion	Ratio	Lower	Upper
84	100		
86	57.1	45.8	85.0
49	106.9	89.6	166.4

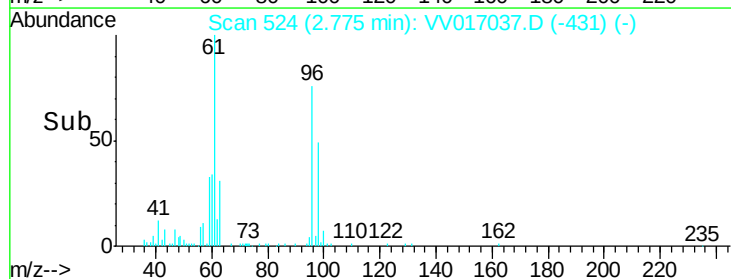
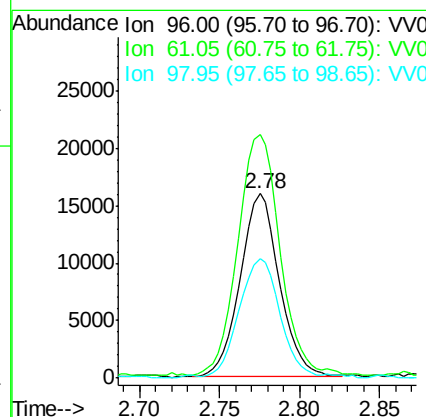
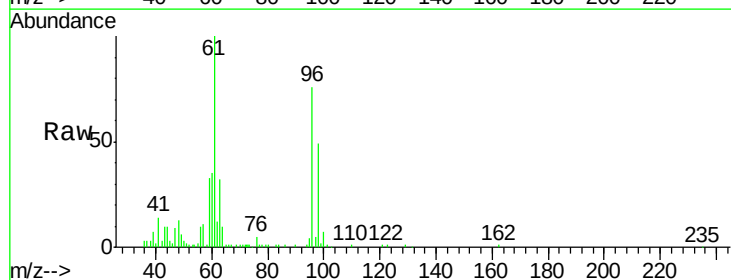
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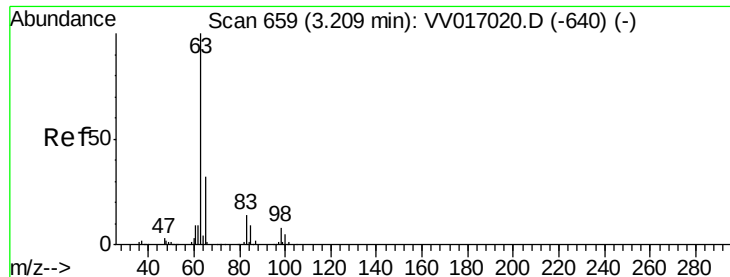
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#18
trans-1,2-Dichloroethene
Concen: 2.816 ug/L
RT: 2.78 min Scan# 524
Delta R.T. -0.00 min
Lab File: VV017037.D
Acq: 22 Jun 2020 23:21

Tgt Ion	Ratio	Lower	Upper
96	100		
61	131.9	102.3	189.9
98	64.7	44.7	82.9





#19

1,1-Dichloroethane

Concen: 1188.693 ug/L m

RT: 3.20 min Scan# 656

Delta R.T. -0.01 min

Lab File: VV017037.D

Acq: 22 Jun 2020 23:21

Instrument :

MSVOA_V

ClientSampleId :

BFXH6

Tot Ion: 63 Resp: 25226720

Ion Ratio Lower Upper

63 100

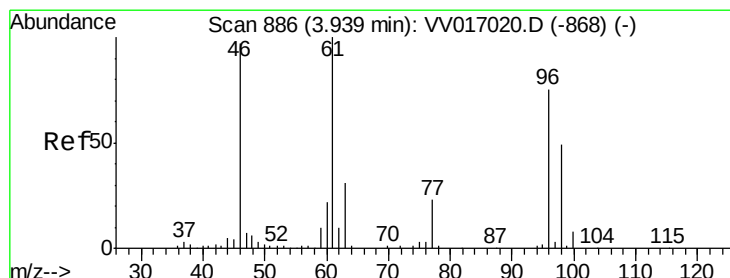
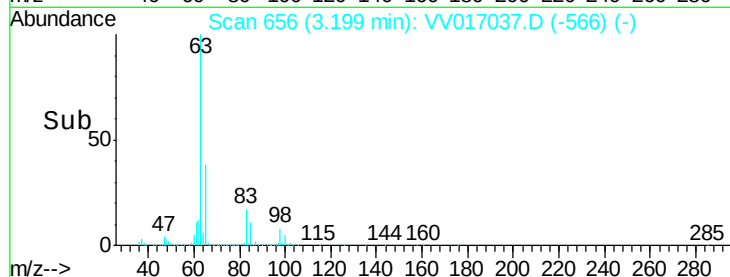
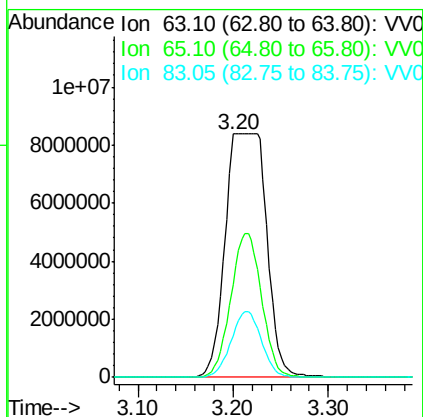
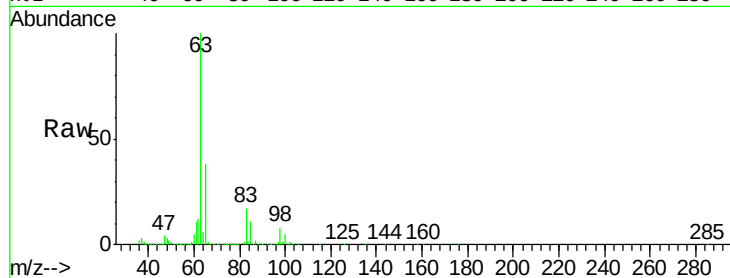
65 38.0 21.8 40.4

83 16.9 9.7 17.9

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#22

cis-1,2-Dichloroethene

Concen: 22.643 ug/L

RT: 3.94 min Scan# 885

Delta R.T. -0.00 min

Lab File: VV017037.D

Acq: 22 Jun 2020 23:21

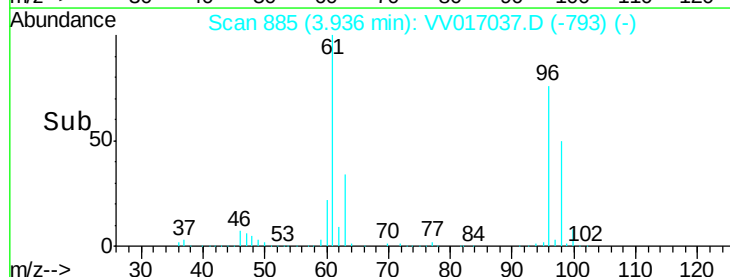
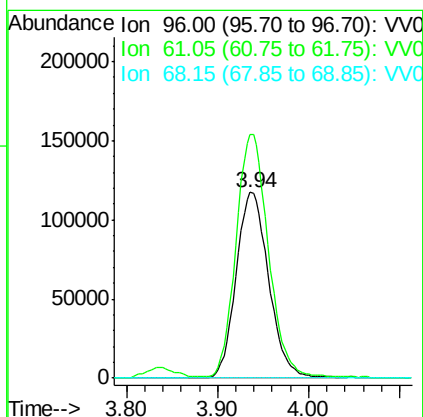
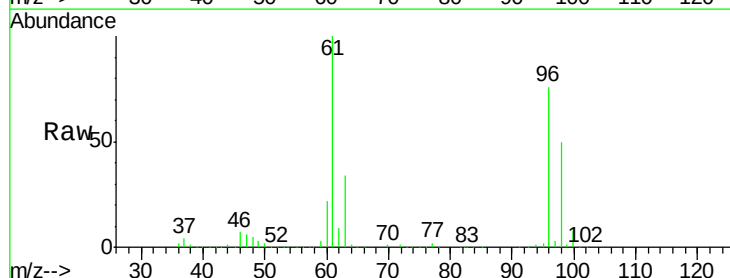
Tgt Ion: 96 Resp: 292457

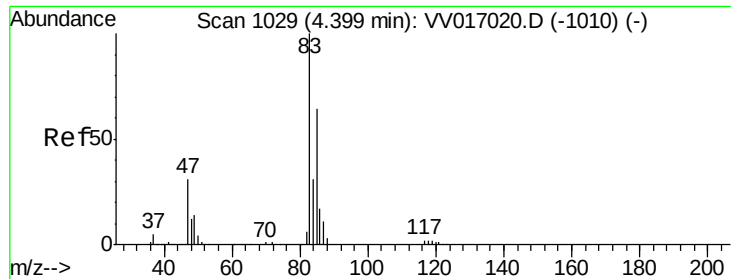
Ion Ratio Lower Upper

96 100

61 130.9 91.0 169.0

68 0.0 0.0 0.0





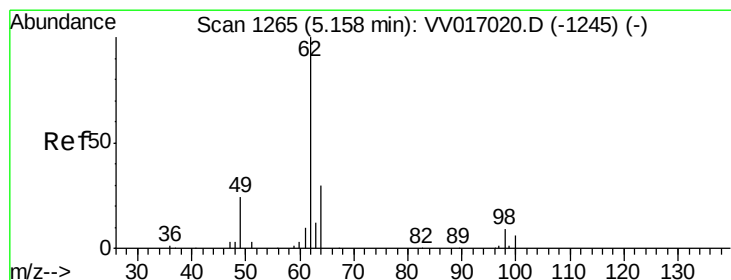
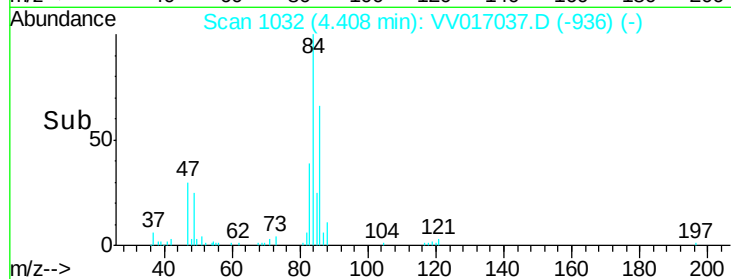
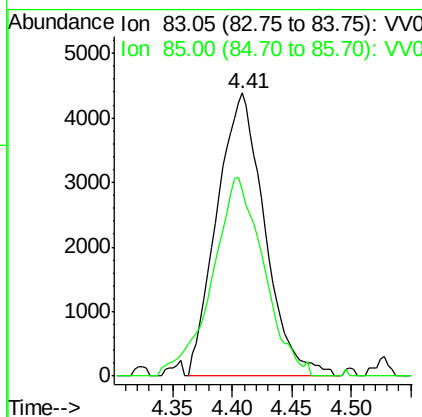
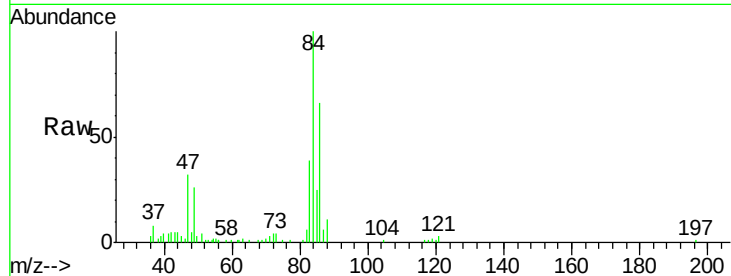
#25
Chloroform
Concen: 0.526 ug/L
RT: 4.41 min Scan# 1032
Delta R.T. 0.01 min
Lab File: VV017037.D
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Tot Ion	83	Resp	12198
Ion Ratio	100	Lower	Upper
85	65.6	44.2	82.2

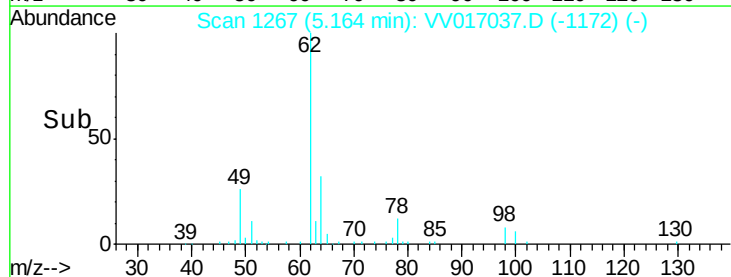
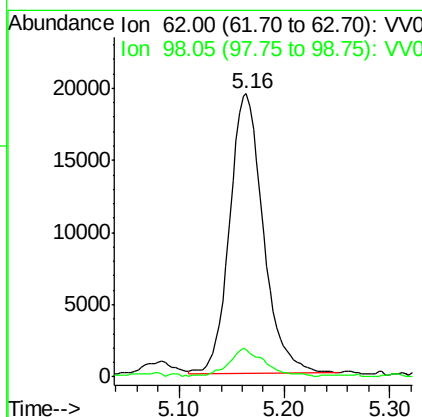
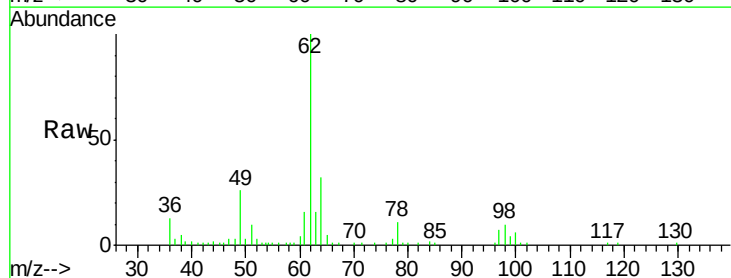
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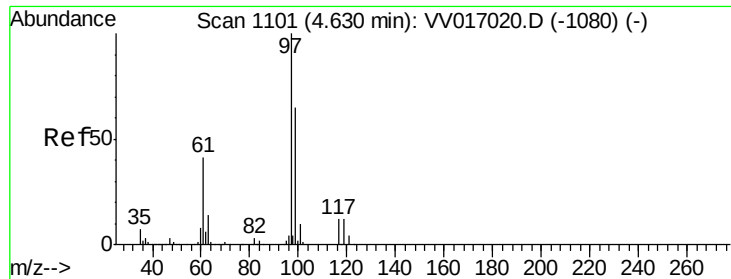
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#27
1,2-Dichloroethane
Concen: 2.956 ug/L
RT: 5.16 min Scan# 1267
Delta R.T. 0.01 min
Lab File: VV017037.D
Acq: 22 Jun 2020 23:21

Tgt Ion	62	Resp	42574
Ion Ratio	100	Lower	Upper
98	9.6	6.7	10.1





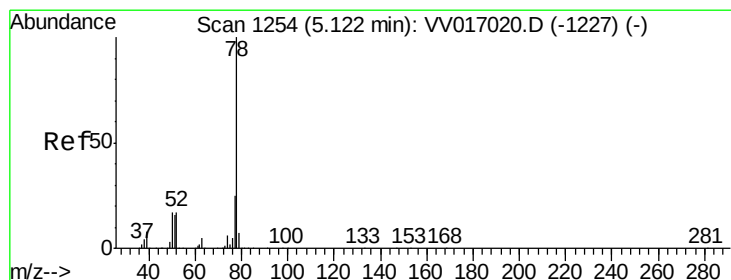
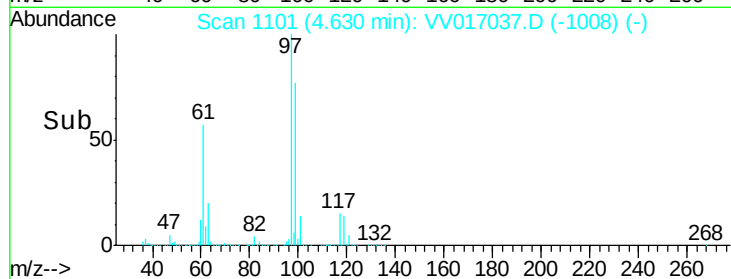
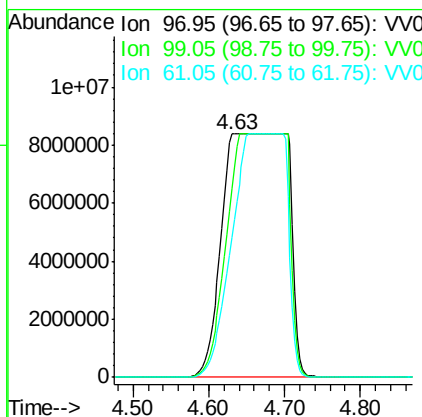
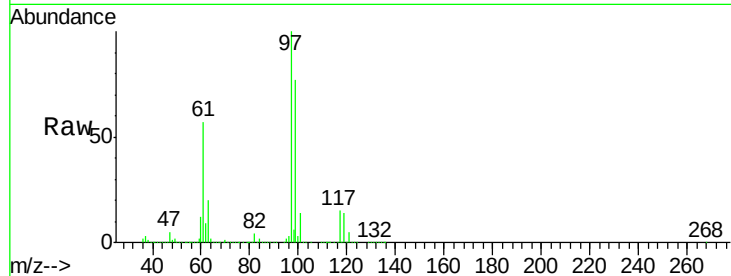
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 1,1,1-Trichloroethane
 Concen: 2358.212 ug/L m
 RT: 4.63 min Scan# 1101
 Delta R.T. -0.00 min
 Lab File: VV017037.D
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Instrument :
 MSVOA_V
 ClientSampleId :
 BFXH6

Tot Ion: 97 Resp:50610471
 Ion Ratio Lower Upper
 97 100
 99 0.0 50.3 75.5#
 61 0.0 36.0 54.0#

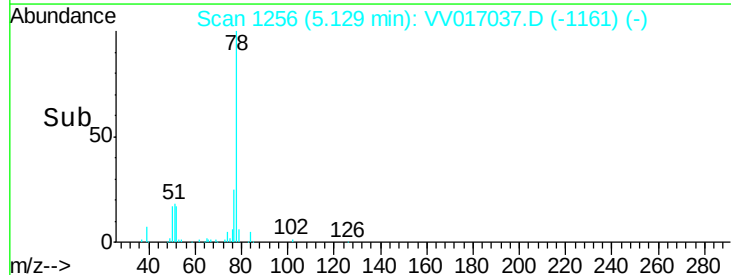
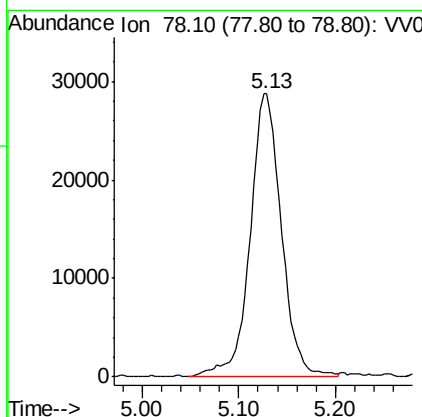
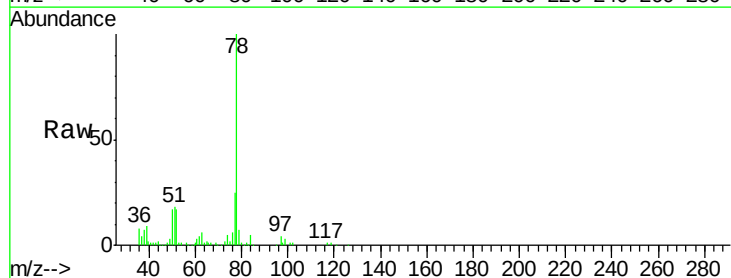
Manual Integrations
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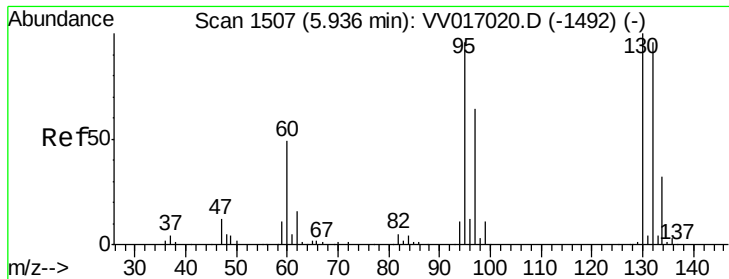
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#33
 Benzene
 Concen: 1.376 ug/L
 RT: 5.13 min Scan# 1256
 Delta R.T. 0.01 min
 Lab File: VV017037.D
 Acq: 22 Jun 2020 23:21

Tgt Ion: 78 Resp: 64562





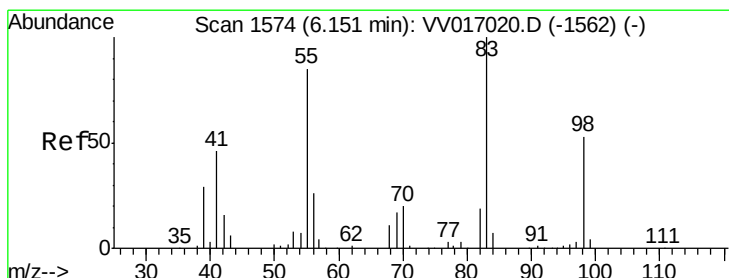
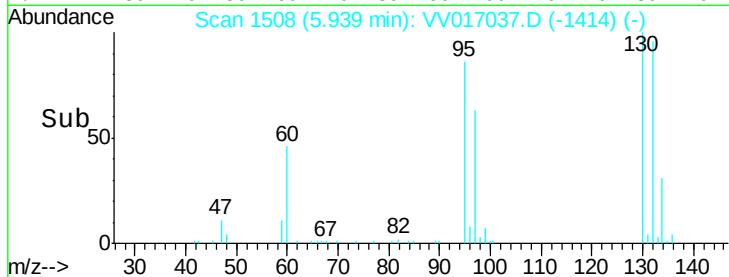
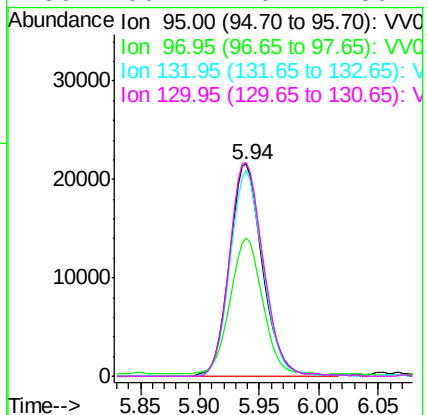
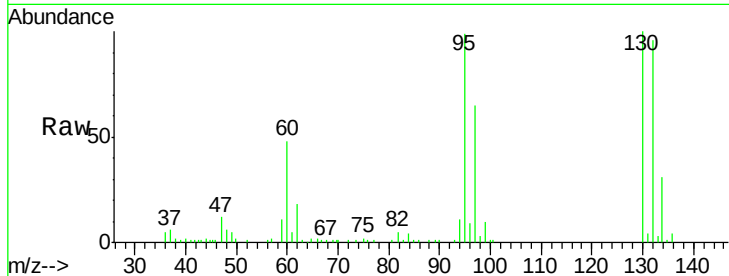
#34
 Trichloroethene
 Concen: 3.011 ug/L
 RT: 5.94 min Scan# 1508
 Delta R.T. 0.00 min
 Lab File: VV017037.D
 Acq: 22 Jun 2020 23:21

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXH6

Tot Ion	95	Resp	41365
Ion	Ratio	Lower	Upper
95	100		
97	65.2	45.3	84.1
132	97.0	68.8	127.8
130	100.7	70.2	130.4

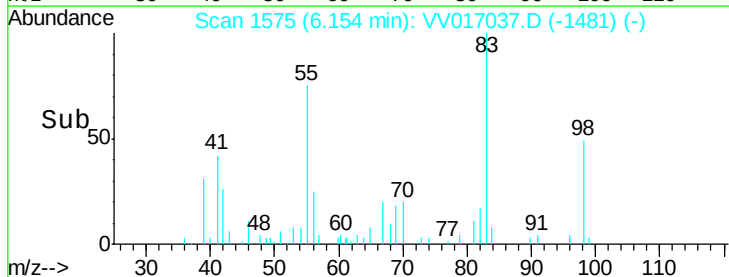
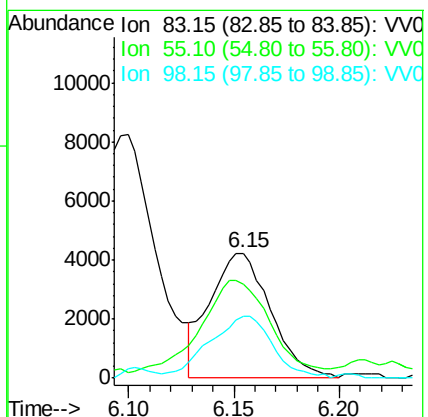
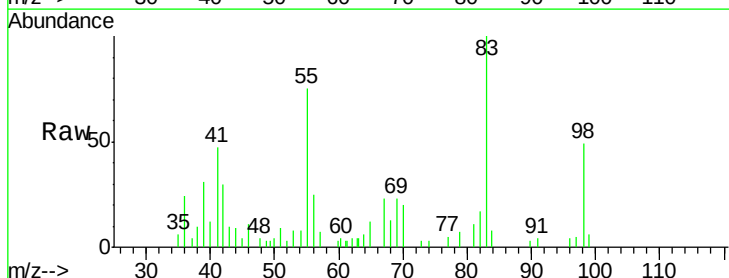
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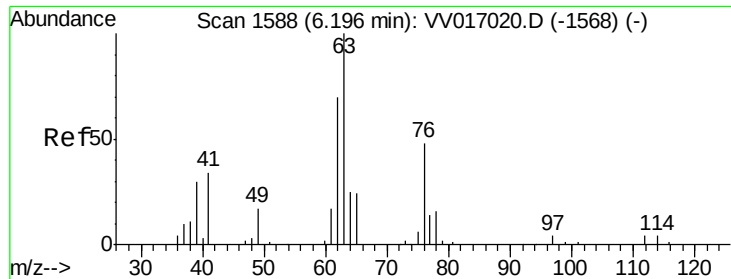
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#35
 Methylcyclohexane
 Concen: 0.396 ug/L
 RT: 6.15 min Scan# 1575
 Delta R.T. 0.00 min
 Lab File: VV017037.D
 Acq: 22 Jun 2020 23:21

Tgt Ion	83	Resp	8466
Ion	Ratio	Lower	Upper
83	100		
55	82.8	63.6	95.4
98	51.8	38.8	58.2





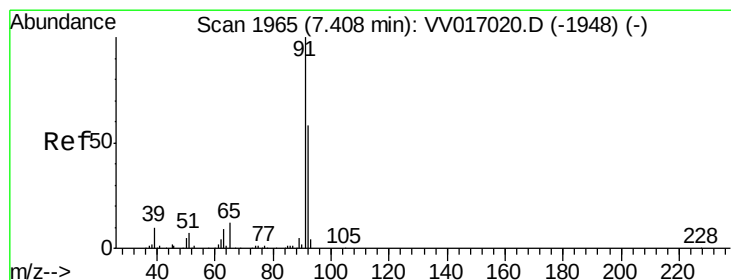
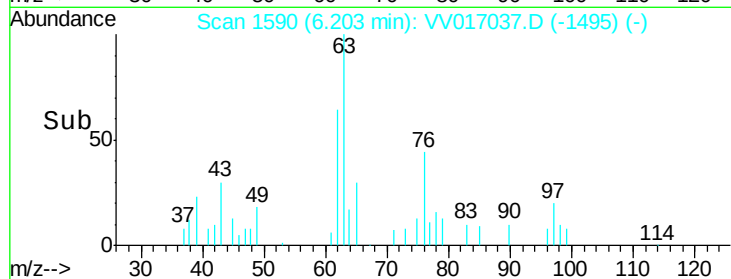
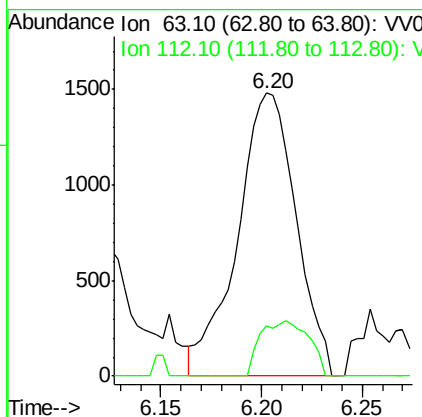
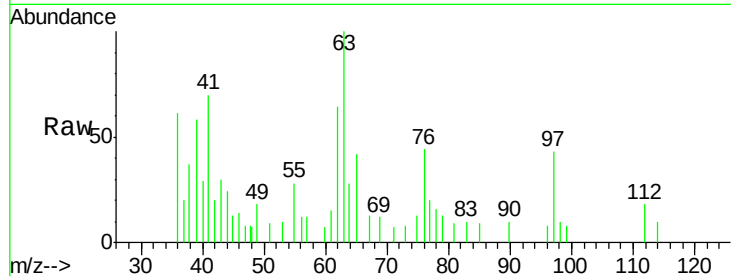
#37
 1,2-Dichloropropane
 Concen: 0.259 ug/L
 RT: 6.20 min Scan# 1590
 Delta R.T. 0.01 min
 Lab File: VV017037.D
 Acq: 22 Jun 2020 23:21

Instrument :
 MSVOA_V
 ClientSampled :
 BFXH6

Tot Ion: 63 Resp: 3009
 Ion Ratio Lower Upper
 63 100
 112 0.0 4.4 6.6#

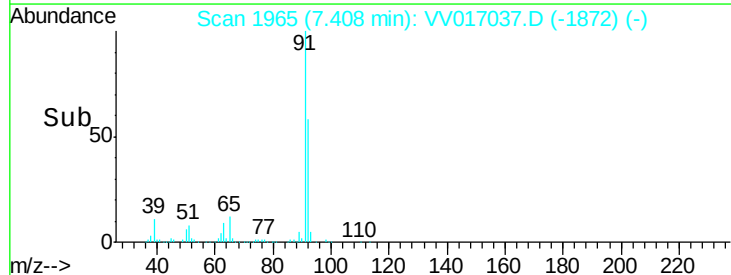
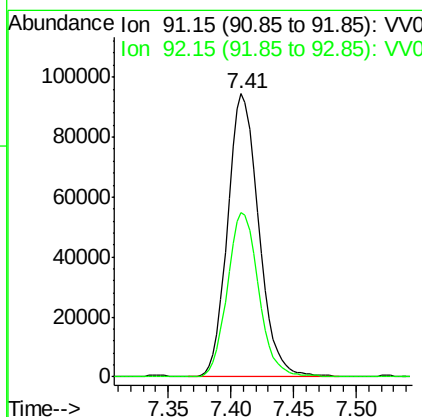
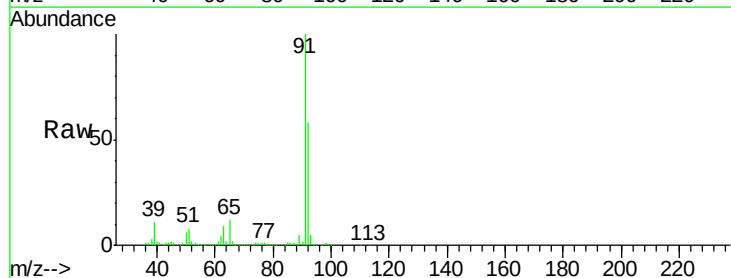
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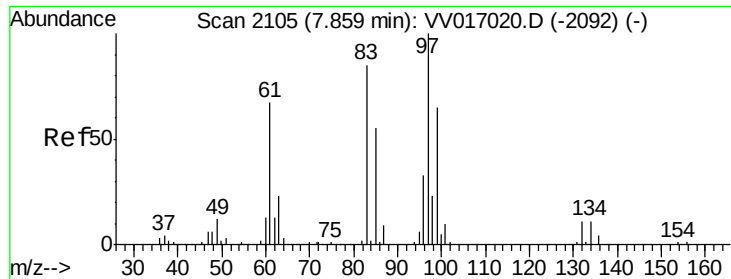
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#42
 Toluene
 Concen: 2.982 ug/L
 RT: 7.41 min Scan# 1965
 Delta R.T. -0.00 min
 Lab File: VV017037.D
 Acq: 22 Jun 2020 23:21

Tgt Ion: 91 Resp: 162620
 Ion Ratio Lower Upper
 91 100
 92 58.3 39.9 74.1





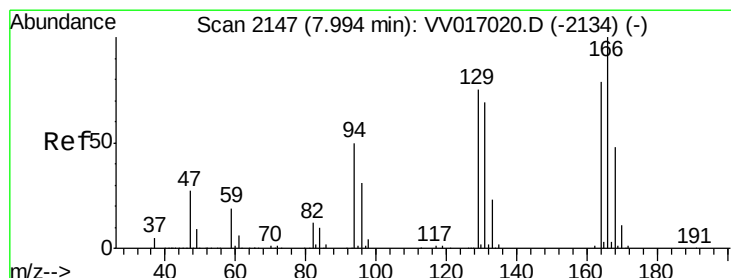
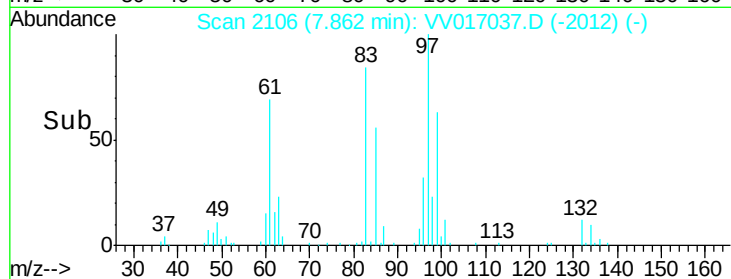
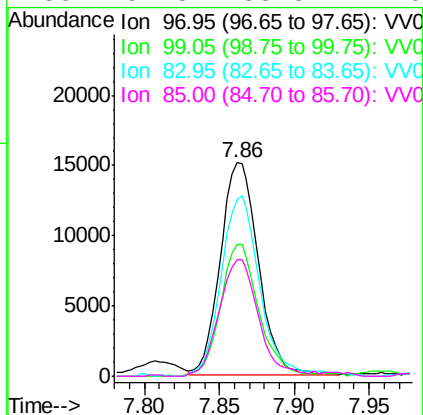
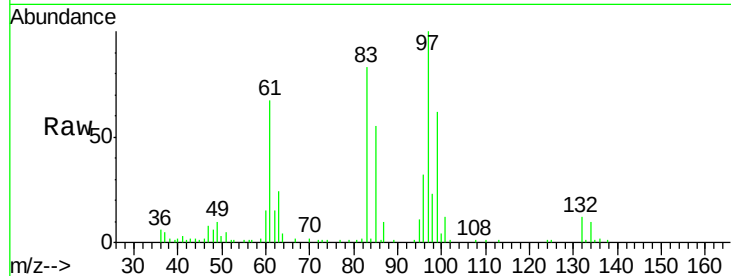
#47
 1,1,2-Trichloroethane
 Concen: 3.255 ug/L
 RT: 7.86 min Scan# 2106
 Delta R.T. 0.00 min
 Lab File: VV017037.D
 Acq: 22 Jun 2020 23:21

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXH6

Tot Ion:	97	Resp:	26809
Ion	Ratio	Lower	Upper
97	100		
99	61.9	43.6	81.0
83	82.7	57.4	106.6
85	54.8	38.8	72.0

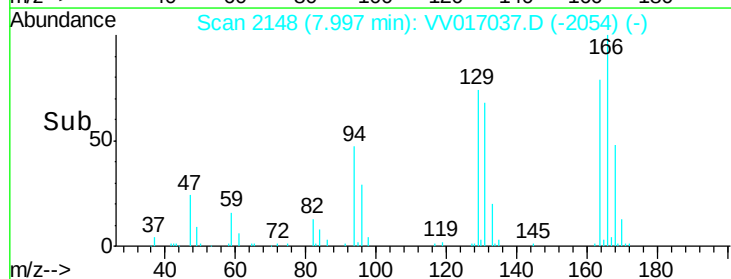
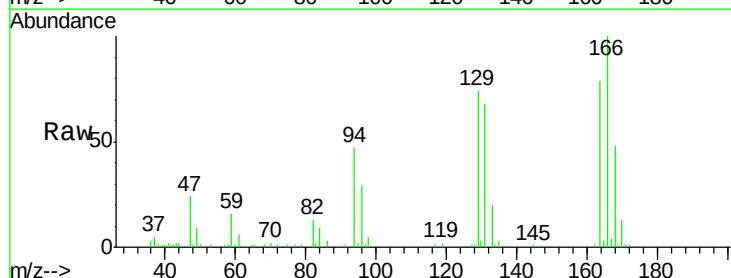
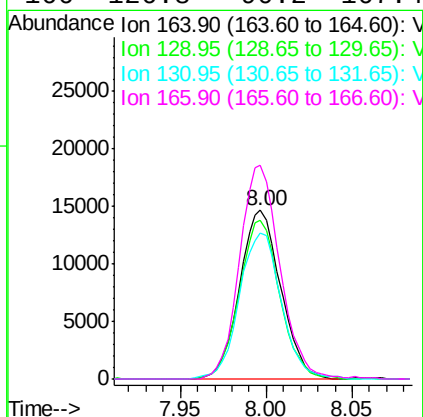
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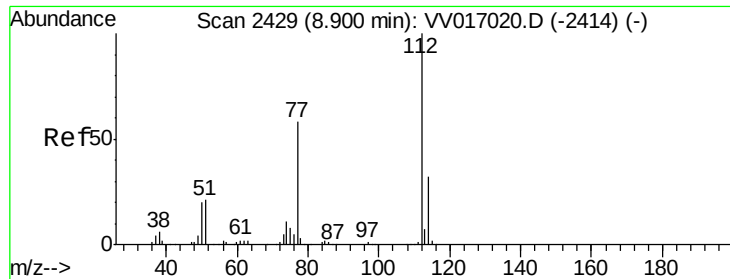
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#49
 Tetrachloroethene
 Concen: 2.209 ug/L
 RT: 8.00 min Scan# 2148
 Delta R.T. 0.00 min
 Lab File: VV017037.D
 Acq: 22 Jun 2020 23:21

Tgt Ion:	164	Resp:	24428
Ion	Ratio	Lower	Upper
164	100		
129	94.0	65.2	121.0
131	86.5	64.1	119.1
166	126.8	90.2	167.4





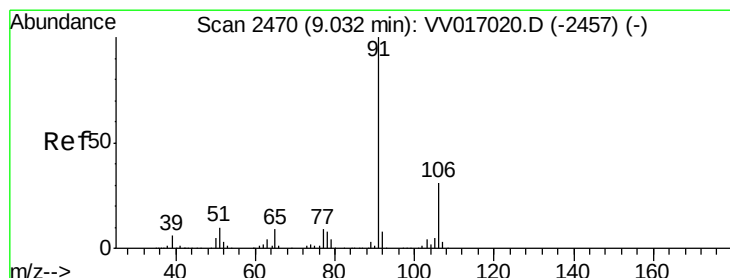
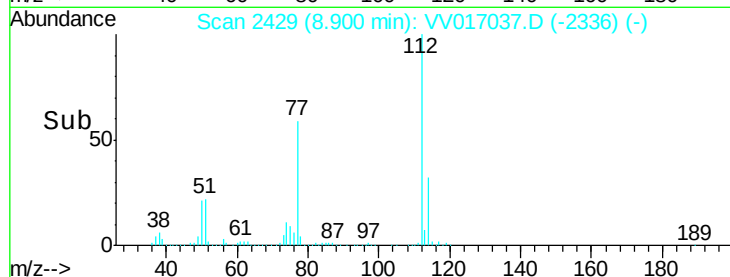
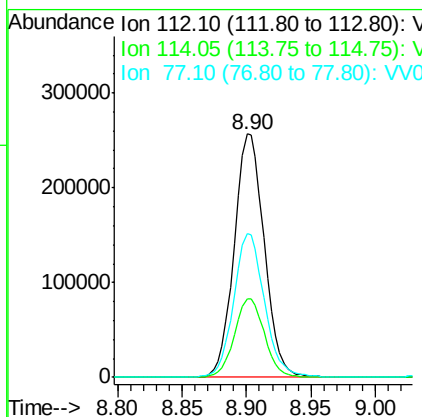
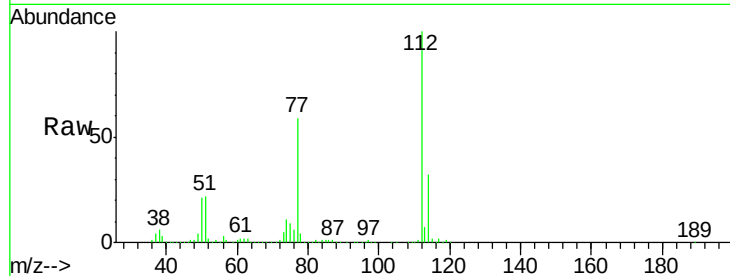
#53
Chlorobenzene
Concen: 12.252 ug/L
RT: 8.90 min Scan# 2429
Delta R.T. -0.00 min
Lab File: VV017037.D
Acq: 22 Jun 2020 23:21

Instrument :
MSVOA_V
ClientSampleId :
BFXH6

Tot Ion	Ratio	Resp	Lower	Upper
112	100	416574		
114	32.0	22.0	41.0	
77	59.3	46.0	69.0	

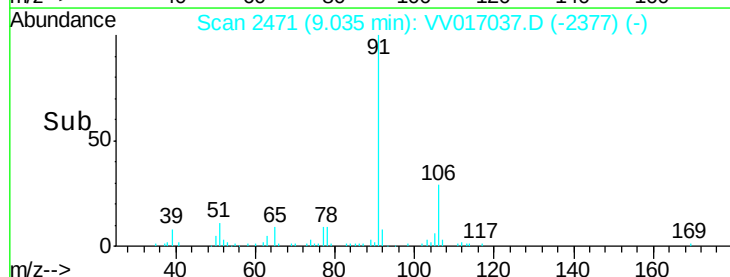
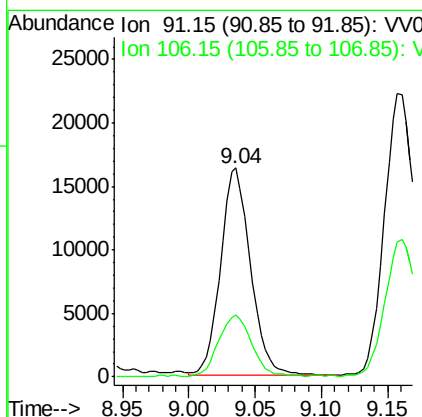
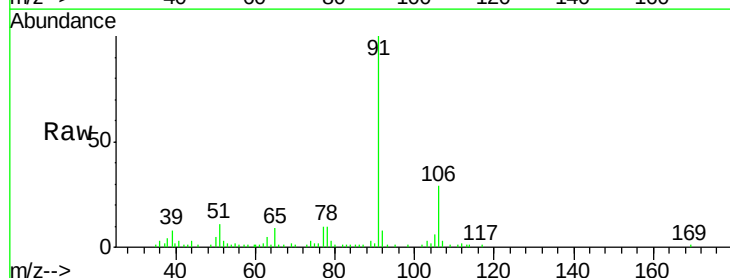
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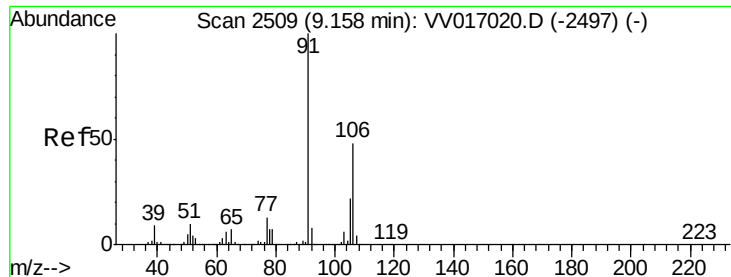
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#54
Ethylbenzene
Concen: 0.442 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VV017037.D
Acq: 22 Jun 2020 23:21

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	25715		
106	29.4	21.1	39.1	





#55

m,p-xylene

Concen: 0.810 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV017037.D

Acq: 22 Jun 2020 23:21

Instrument :

MSVOA_V

ClientSampleId :

BFXH6

Tot Ion:106 Resp: 18496

Ion Ratio Lower Upper

106 100

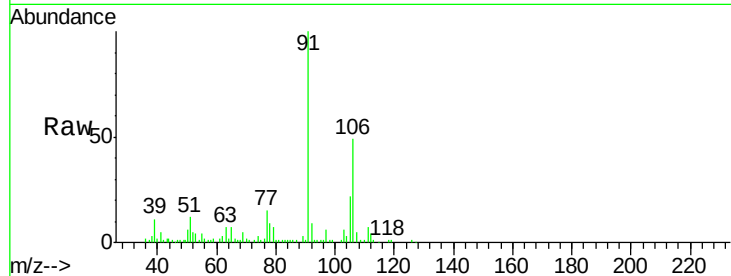
91 203.9 142.7 264.9

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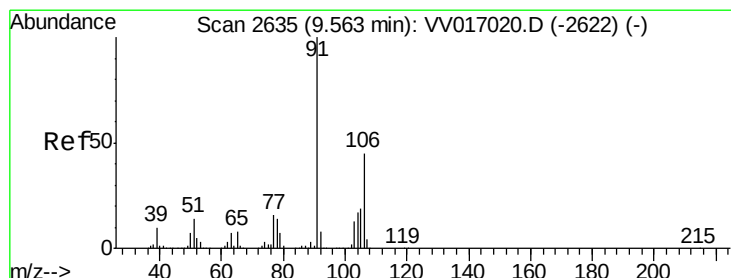
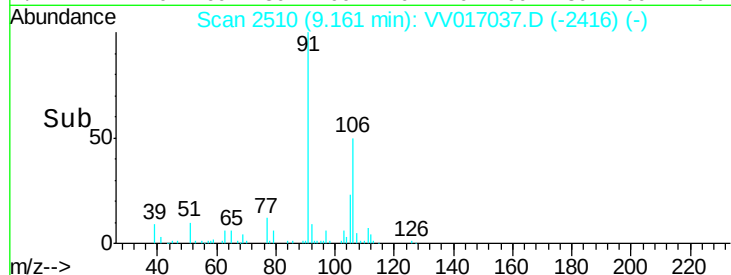
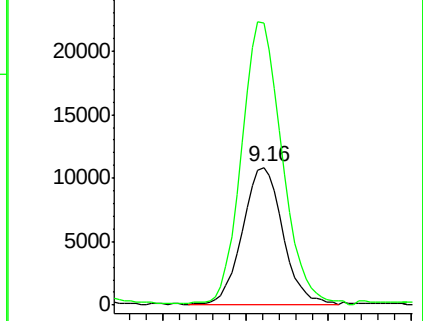
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Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0



#56

o-xylene

Concen: 1.196 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV017037.D

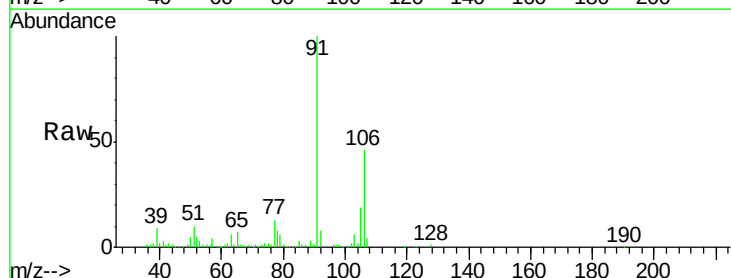
Acq: 22 Jun 2020 23:21

Tgt Ion:106 Resp: 25487

Ion Ratio Lower Upper

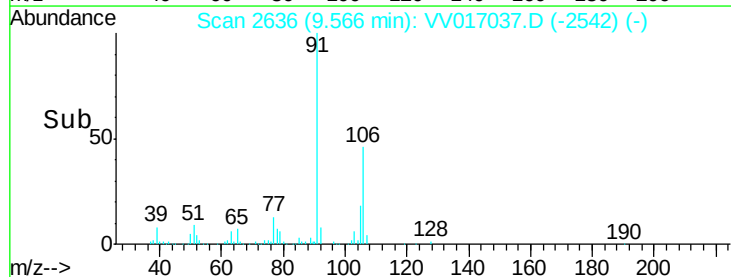
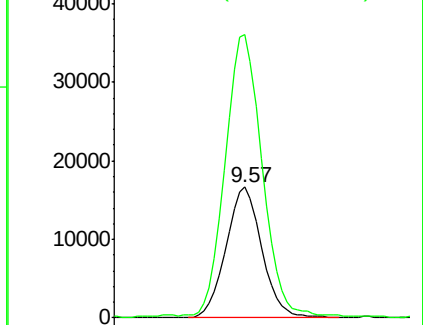
106 100

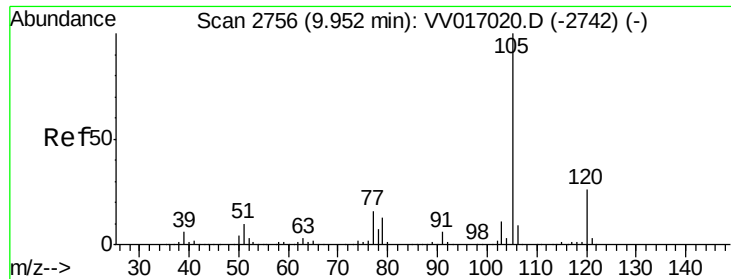
91 216.6 153.6 285.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0





#58

Isopropylbenzene

Concen: 0.332 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV017037.D

Acq: 22 Jun 2020 23:21

Instrument :

MSVOA_V

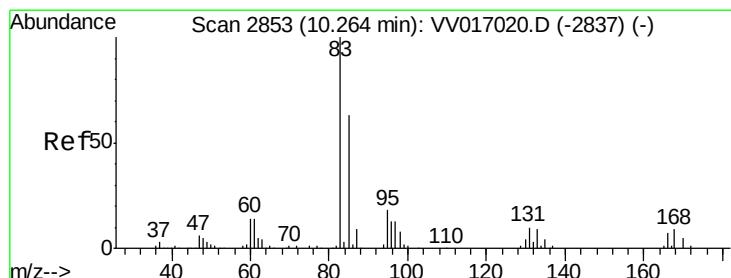
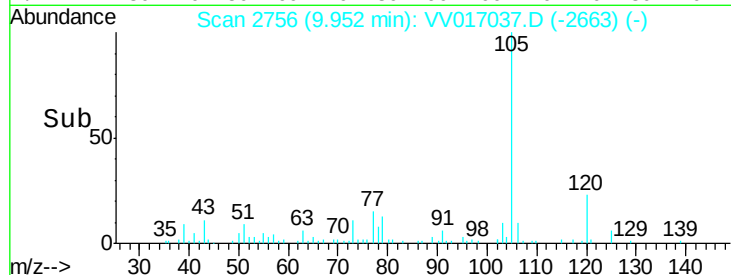
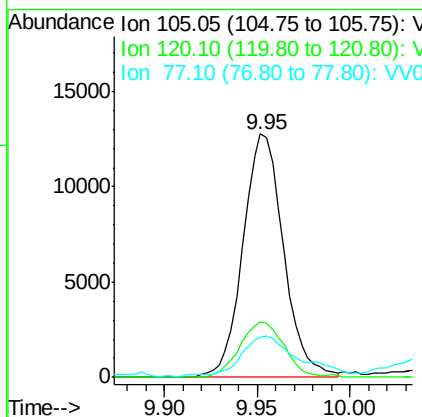
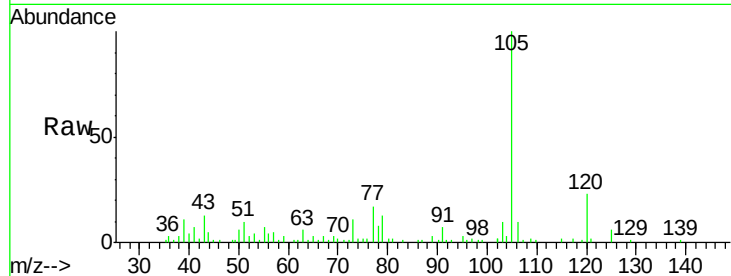
ClientSampled :

BFXH6

Tot Ion:	105	Resp:	19491
Ion Ratio	Lower	Upper	
105	100		
120	25.0	21.2	31.8
77	20.9	13.0	19.4

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#60

1,1,2,2-Tetrachloroethane

Concen: 1.226 ug/L

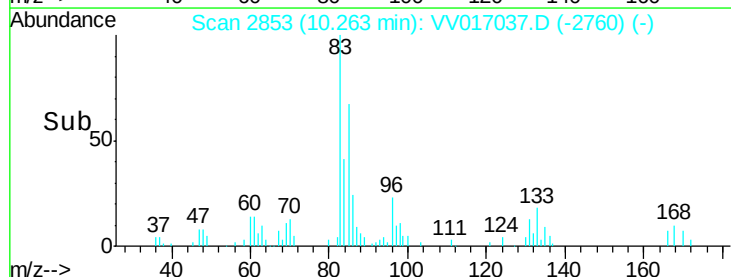
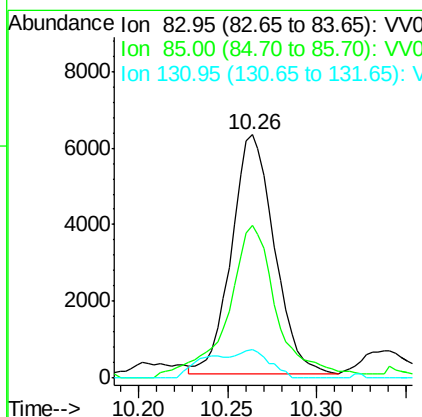
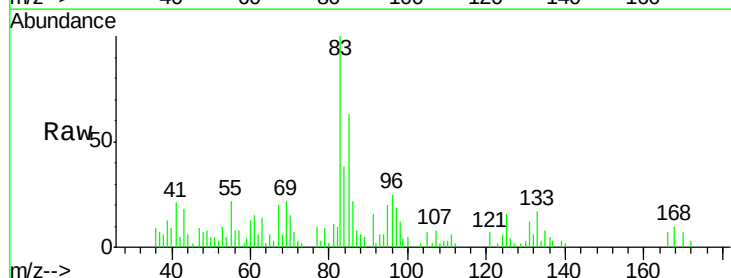
RT: 10.26 min Scan# 2853

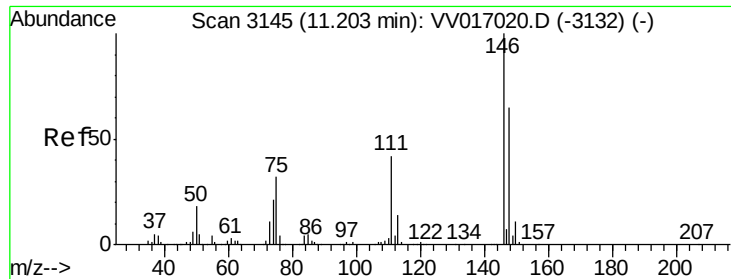
Delta R.T. -0.00 min

Lab File: VV017037.D

Acq: 22 Jun 2020 23:21

Tgt Ion:	83	Resp:	10442
Ion Ratio	Lower	Upper	
83	100		
85	62.5	42.9	79.7
131	11.6	8.6	13.0





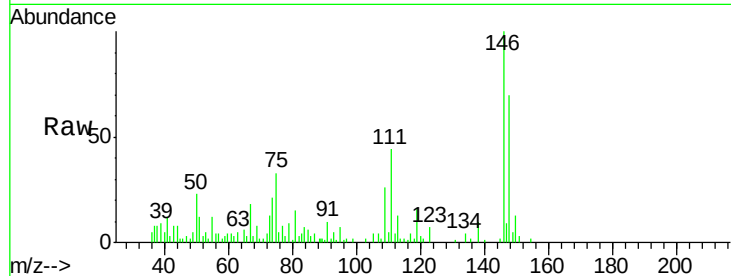
#63
 1,3-Dichlorobenzene
 Concen: 0.503 ug/L
 RT: 11.21 min Scan# 3146
 Delta R.T. 0.00 min
 Lab File: VV017037.D
 Acq: 22 Jun 2020 23:21

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXH6

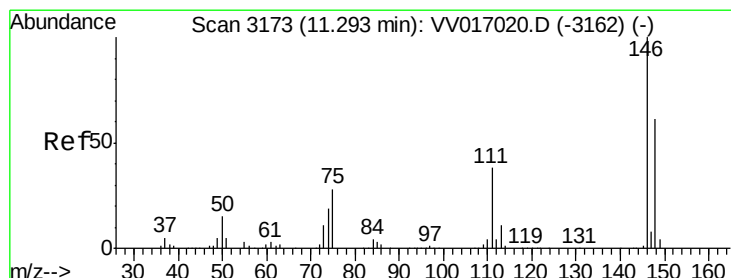
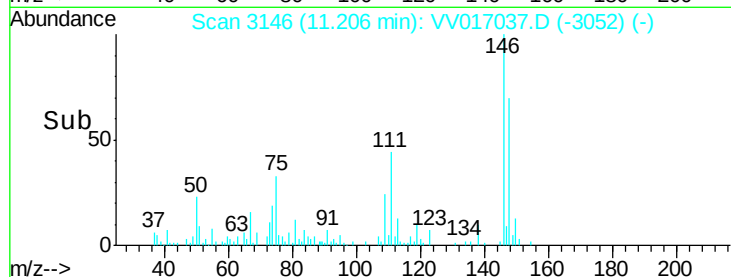
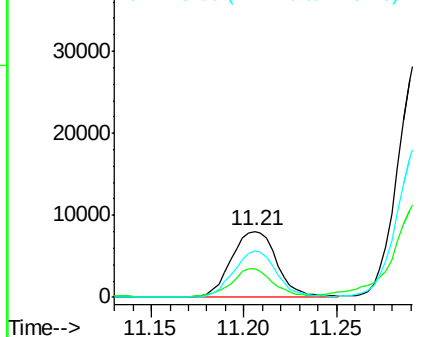
Tot Ion	Ratio	Lower	Upper
146	100		
111	44.3	29.2	54.2
148	70.5	44.9	83.5

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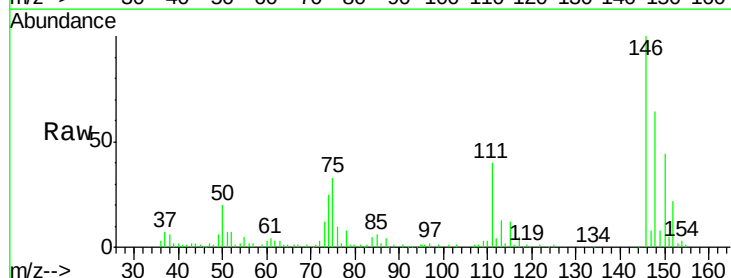


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

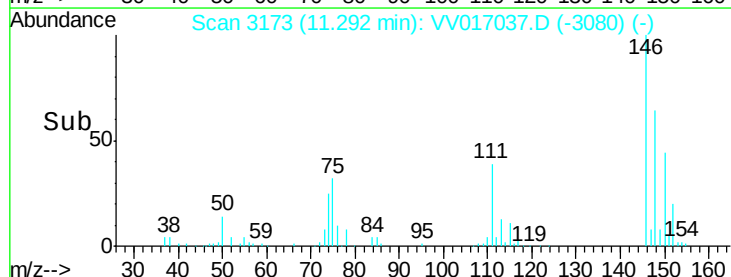
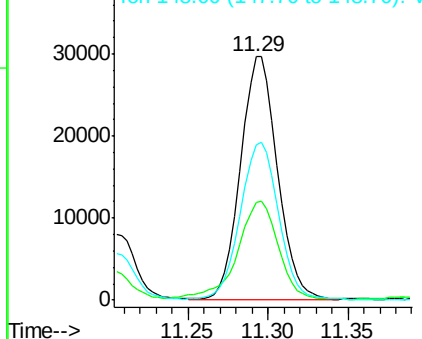


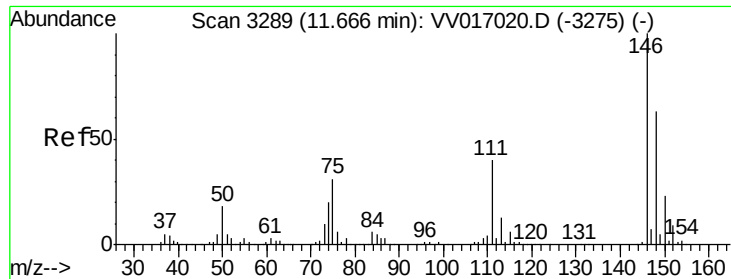
#64
 1,4-Dichlorobenzene
 Concen: 1.686 ug/L
 RT: 11.29 min Scan# 3173
 Delta R.T. -0.00 min
 Lab File: VV017037.D
 Acq: 22 Jun 2020 23:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.2	27.4	50.8
148	63.8	44.3	82.3



Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V





#66
 1,2-Dichlorobenzene
 Concen: 8.050 ug/L
 RT: 11.67 min Scan# 3289
 Delta R.T. -0.00 min
 Lab File: VV017037.D
 Acq: 22 Jun 2020 23:21

Instrument :
 MSVOA_V
 ClientSampleId :
 BFXH6

Tot Ion	Ratio	Resp Lower	Upper
146	100		
111	41.6	34.4	51.6
148	61.8	49.9	74.9

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