

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081018\
 Data File : VV006990.D
 Acq On : 10 Aug 2018 18:15
 Operator : SY/MD
 Sample : MDL01
 Misc : 25 mL/MSVOA V/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Manual Integrations
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apatel
 8/13/2018 5:34:49 PM

Quant Time: Aug 13 09:03:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR080918WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Aug 11 00:19:35 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	248037	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	242442	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	98548	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	65777	4.11	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.20%
7) Chloroethane-d5	1.58	69	61774	4.55	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.00%
11) 1,1-Dichloroethene-d2	2.13	63	88995	2.96	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	59.20%#
20) 2-Butanone-d5	3.97	46	224875	48.84	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.68%
24) Chloroform-d	4.40	84	152566	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.00%
26) 1,2-Dichloroethane-d4	5.09	65	78565	4.79	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	95.80%
32) Benzene-d6	5.10	84	276954	4.45	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	89.00%
36) 1,2-Dichloropropane-d6	6.12	67	101583	4.77	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.40%
41) Toluene-d8	7.36	98	209269	3.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	79.00%
43) trans-1,3-Dichloropropene-	7.67	79	30595	4.13	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.60%
46) 2-Hexanone-d5	8.15	63	117221	38.70	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	77.40%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	74714	4.50	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	90.00%
64) 1,2-Dichlorobenzene-d4	11.68	152	80463	4.69	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	93.80%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	4776	0.20 ug/L	100
3) Chloromethane	1.25	50	4975	0.21 ug/L	97
5) Vinyl chloride	1.32	62	4369	0.18 ug/L #	66
6) Bromomethane	1.54	94	990	0.19 ug/L	92
8) Chloroethane	1.60	64	3154	0.22 ug/L	94
9) Trichlorofluoromethane	1.77	101	5362	0.18 ug/L	89
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	4554	0.25 ug/L #	80
12) 1,1-Dichloroethene	2.14	96	4318	0.24 ug/L #	1
13) Acetone	2.21	43	5130	2.16 ug/L	90
14) Carbon disulfide	2.32	76	11993	0.20 ug/L #	93
15) Methyl Acetate	2.47	43	1420	0.21 ug/L	96
16) Methylene chloride	2.54	84	6603	0.31 ug/L	94
17) Methyl tert-butyl Ether	2.82	73	7706	0.18 ug/L #	86
18) trans-1,2-Dichloroethene	2.79	96	4021	0.21 ug/L	88
19) 1,1-Dichloroethane	3.23	63	6954	0.20 ug/L	92
21) 2-Butanone	4.06	43	11413	2.22 ug/L #	73
22) cis-1,2-Dichloroethene	3.97	96	4620	0.21 ug/L	94

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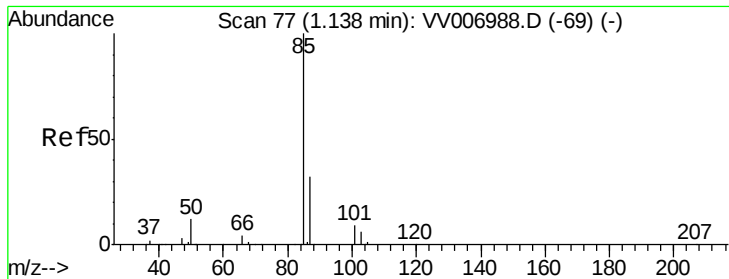
Manual Integrations
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Quant Time: Aug 13 09:03:25 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR080918WMA.M
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.31	128	1671	0.19	ug/L	87
25) Chloroform	4.43	83	8239	0.22	ug/L	91
27) 1,2-Dichloroethane	5.19	62	4878	0.21	ug/L #	82
29) 1,1,1-Trichloroethane	4.66	97	6108	0.19	ug/L	98
30) Cyclohexane	4.72	56	5569	0.17	ug/L	99
31) Carbon tetrachloride	4.88	117	4340	0.16	ug/L	91
33) Benzene	5.15	78	14780	0.18	ug/L	100
34) Trichloroethene	5.96	95	3859	0.19	ug/L	90
35) Methylcyclohexane	6.18	83	4869	0.15	ug/L	90
37) 1,2-Dichloropropane	6.23	63	4368	0.19	ug/L #	91
38) Bromodichloromethane	6.56	83	5015	0.19	ug/L	98
39) cis-1,3-Dichloropropene	7.08	75	4784	0.17	ug/L	86
40) 4-Methyl-2-pentanone	7.29	43	17604	1.42	ug/L #	91
42) Toluene	7.44	91	13449	0.17	ug/L	99
44) trans-1,3-Dichloropropene	7.70	75	4058	0.18	ug/L	95
45) 1,1,2-Trichloroethane	7.89	97	2453	0.16	ug/L #	85
47) Tetrachloroethene	8.02	164	3194	0.20	ug/L	88
48) 2-Hexanone	8.20	43	29117	3.32	ug/L	92
49) Dibromochloromethane	8.30	129	2658	0.17	ug/L	76
50) 1,2-Dibromoethane	8.40	107	2259	0.18	ug/L #	75
51) Chlorobenzene	8.93	112	9461	0.18	ug/L	95
52) Ethylbenzene	9.06	91	13070	0.16	ug/L	99
53) m,p-xylene	9.19	106	4187	0.14	ug/L	90
54) o-xylene	9.59	106	4405	0.15	ug/L	81
55) Styrene	9.61	104	6800	0.14	ug/L	91
56) Isopropylbenzene	9.98	105	10302	0.14	ug/L	93
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	3447	0.19	ug/L #	83
59) 1,2,3-Trichloropropane	10.33	75	2361	0.18	ug/L #	52
61) Bromoform	9.78	173	1370	0.18	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	6410	0.20	ug/L	97
63) 1,4-Dichlorobenzene	11.32	146	6068	0.19	ug/L	93
65) 1,2-Dichlorobenzene	11.70	146	6257	0.20	ug/L	93
66) 1,2-Dibromo-3-chloropropan	12.48	75	542m	0.24	ug/L	
67) 1,3,5-Trichlorobenzene	12.70	180	4238	0.18	ug/L	95
68) 1,2,4-trichlorobenzene	13.32	180	2760	0.16	ug/L	97
69) Naphthalene	13.56	128	3416	0.13	ug/L #	91
70) 1,2,3-Trichlorobenzene	13.81	180	2607	0.15	ug/L	97

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



#2

Dichlorodifluoromethane

Concen: 0.20 ug/L

RT: 1.14 min Scan# 77

Delta R.T. 0.00 min

Lab File: VV006990.D

Acq: 10 Aug 2018 18:15

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 85 Resp: 4776

Ion Ratio Lower Upper

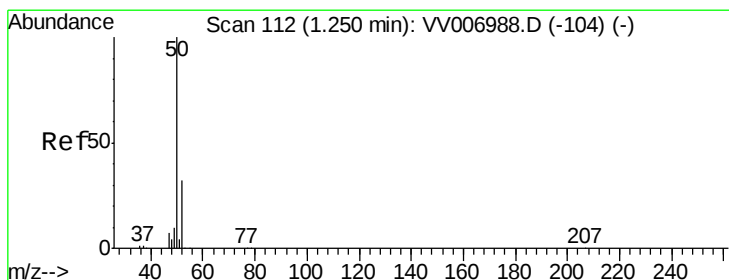
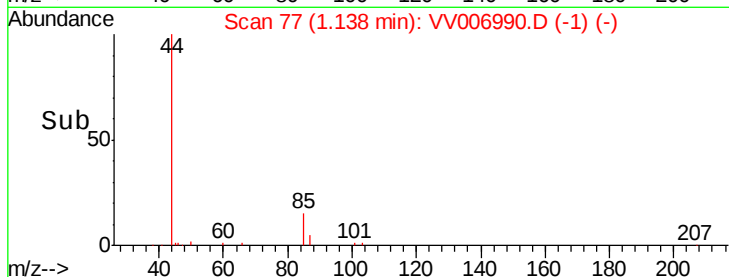
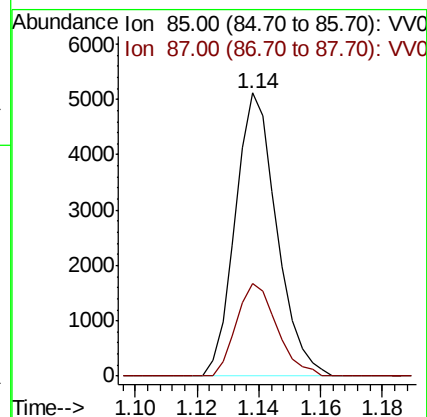
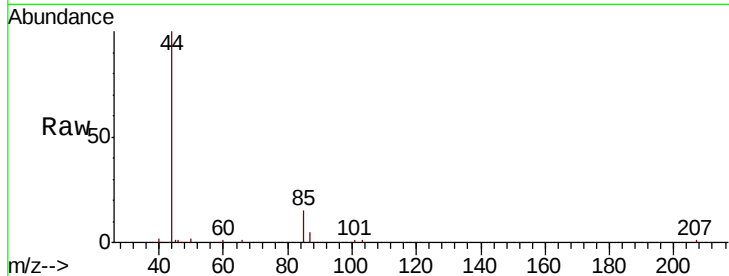
85 100

87 31.8 25.4 38.2

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#3

Chloromethane

Concen: 0.21 ug/L

RT: 1.25 min Scan# 112

Delta R.T. 0.00 min

Lab File: VV006990.D

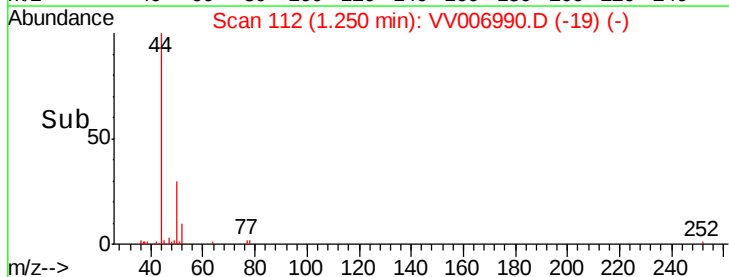
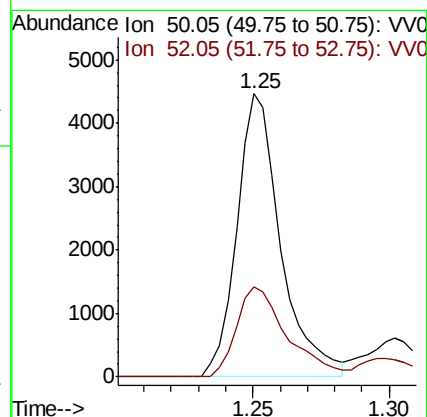
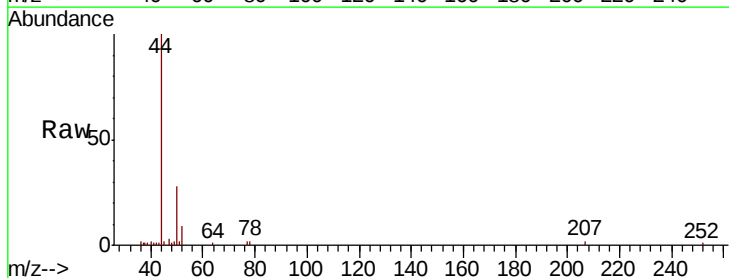
Acq: 10 Aug 2018 18:15

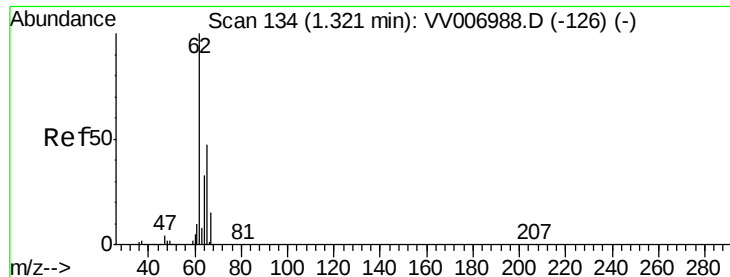
Tgt Ion: 50 Resp: 4975

Ion Ratio Lower Upper

50 100

52 32.0 23.6 43.8





#5

Vinyl chloride

Concen: 0.18 ug/L

RT: 1.32 min Scan# 134

Delta R.T. 0.00 min

Lab File: VV006990.D

Acq: 10 Aug 2018 18:15

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 62 Resp: 4369

Ion Ratio Lower Upper

62 100

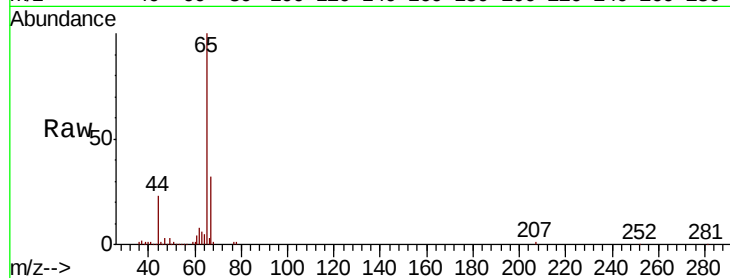
64 53.1 23.5 43.7#

Manual Integrations

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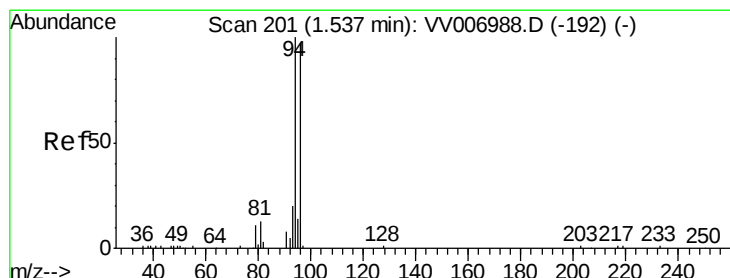
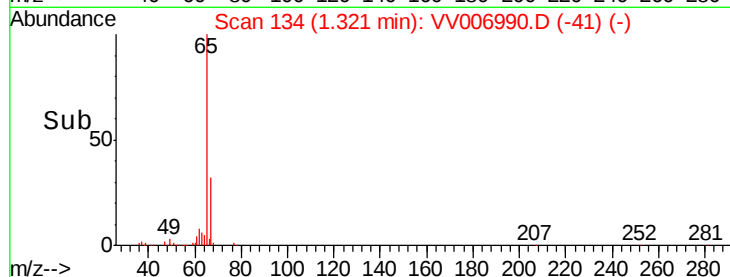
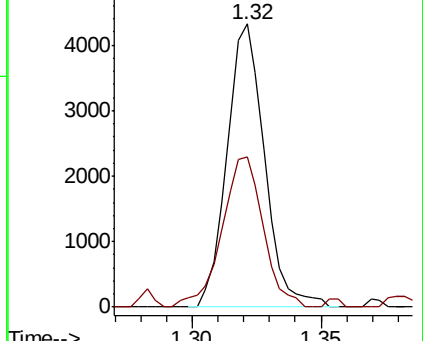
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Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



#6

Bromomethane

Concen: 0.19 ug/L

RT: 1.54 min Scan# 201

Delta R.T. 0.00 min

Lab File: VV006990.D

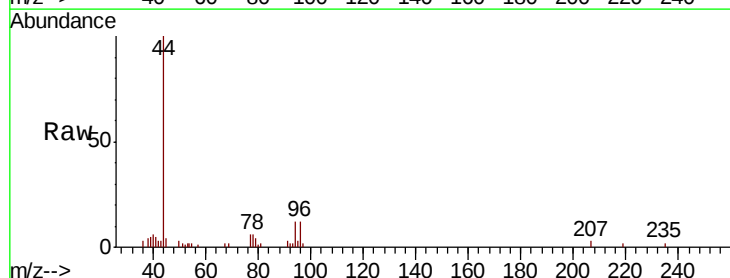
Acq: 10 Aug 2018 18:15

Tgt Ion: 94 Resp: 990

Ion Ratio Lower Upper

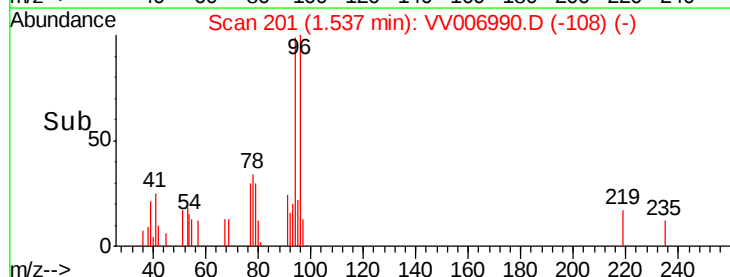
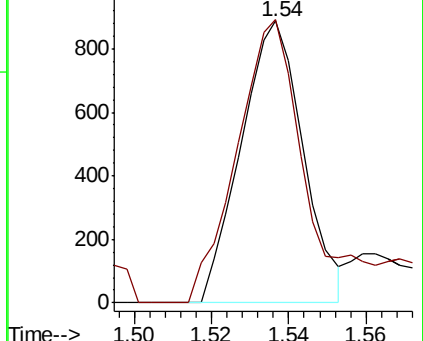
94 100

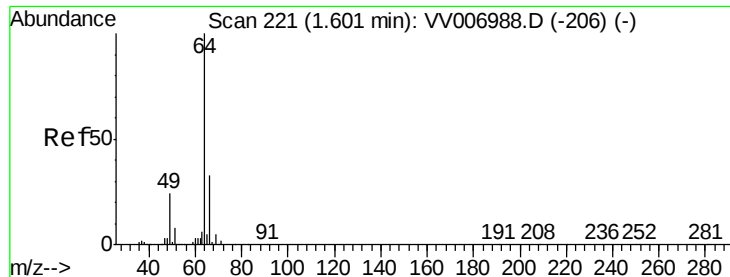
96 100.6 65.0 120.6



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





#8

Chloroethane

Concen: 0.22 ug/L

RT: 1.60 min Scan# 220

Delta R.T. -0.00 min

Lab File: VV006990.D

Acq: 10 Aug 2018 18:15

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 64 Resp: 3154

Ion Ratio Lower Upper

64 100

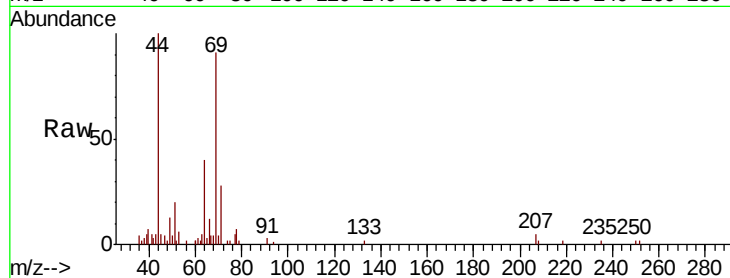
66 29.1 22.6 42.0

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Abundance Ion 64.10 (63.80 to 64.80): VV006988.D (-206) (-)

Ion 66.05 (65.75 to 66.75): VV006990.D (-128) (-)

1.60

3000

2500

2000

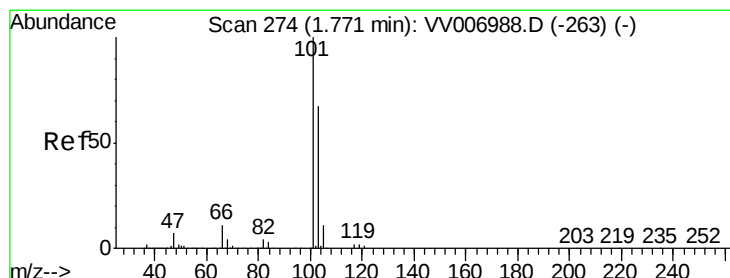
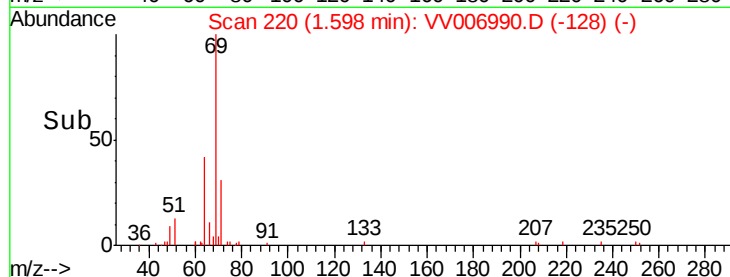
1500

1000

500

0

Time-->



#9

Trichlorofluoromethane

Concen: 0.18 ug/L

RT: 1.77 min Scan# 273

Delta R.T. -0.00 min

Lab File: VV006990.D

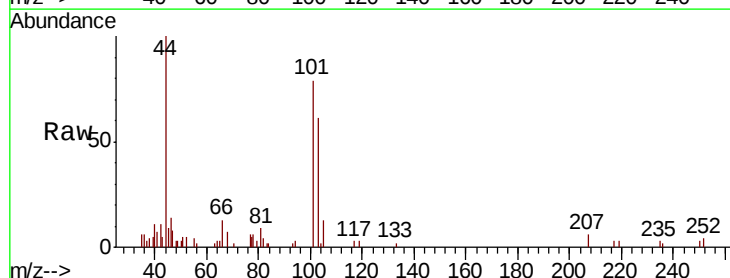
Acq: 10 Aug 2018 18:15

Tgt Ion: 101 Resp: 5362

Ion Ratio Lower Upper

101 100

103 74.3 52.7 79.1



Abundance Ion 101.00 (100.70 to 101.70): VV006988.D (-263) (-)

Ion 103.00 (102.70 to 103.70): VV006990.D (-181) (-)

1.77

5000

4000

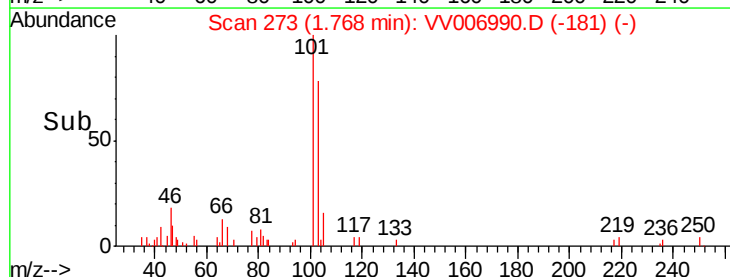
3000

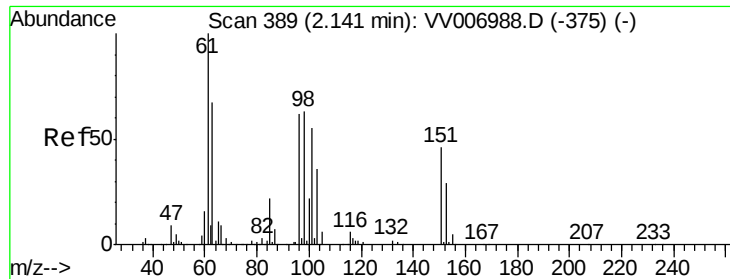
2000

1000

0

Time-->





#10

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

Concen: 0.25 ug/L

RT: 2.14 min Scan# 388

Delta R.T. -0.00 min

Lab File: VV006990.D

Acq: 10 Aug 2018 18:15

Instrument :

MSVOA_V

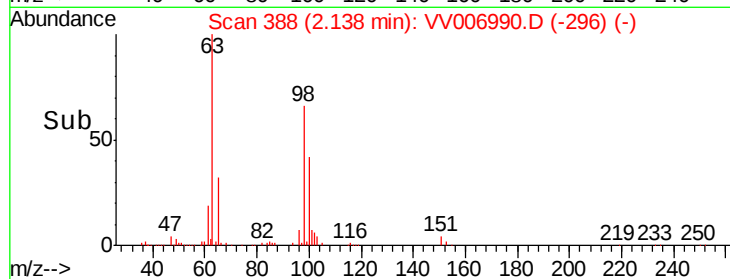
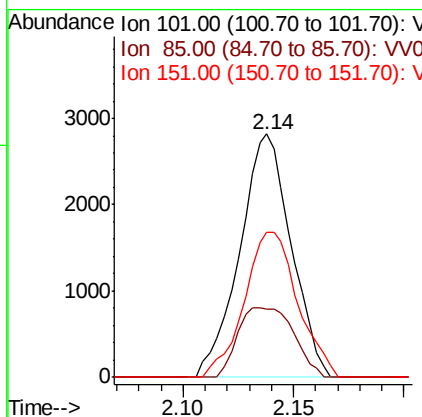
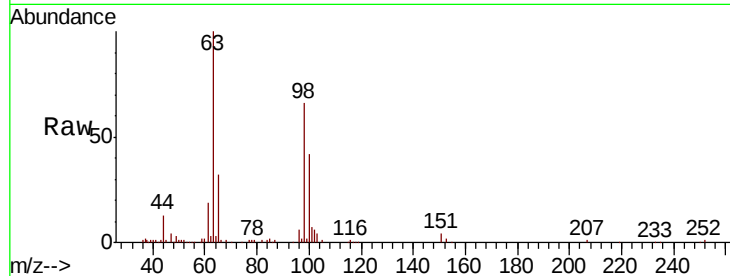
ClientSampleId :

MDL01

Tot Ion:	101	Resp:	4554
Ion Ratio	Lower	Upper	
101	100		
85	31.0	33.9	50.9#
151	62.1	64.1	96.1#

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#12

1,1-Dichloroethene

Concen: 0.24 ug/L

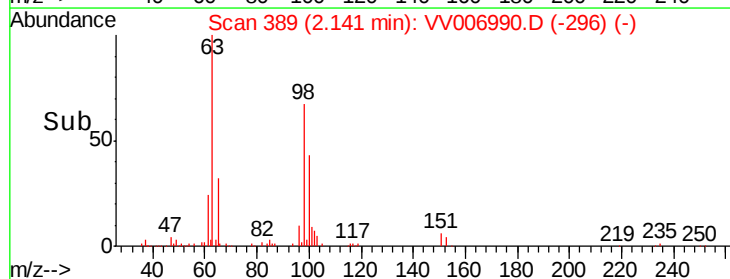
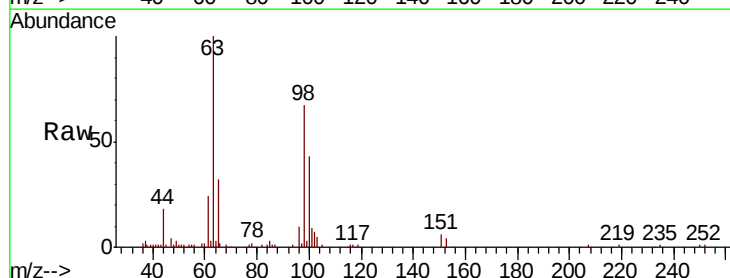
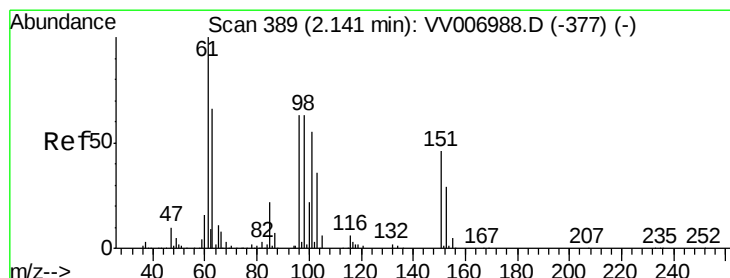
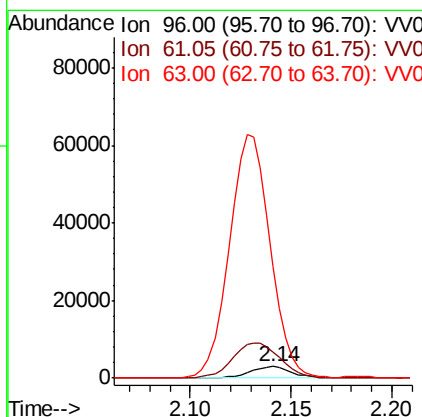
RT: 2.14 min Scan# 389

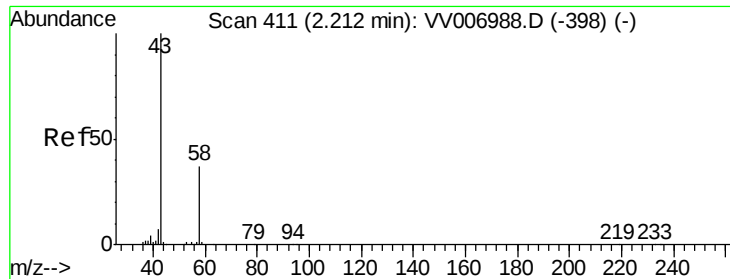
Delta R.T. 0.00 min

Lab File: VV006990.D

Acq: 10 Aug 2018 18:15

Tgt Ion:	96	Resp:	4318
Ion Ratio	Lower	Upper	
96	100		
61	233.3	111.6	207.4#
63	984.9	84.9	157.7#





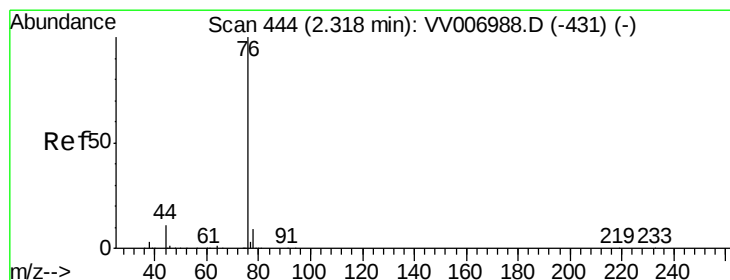
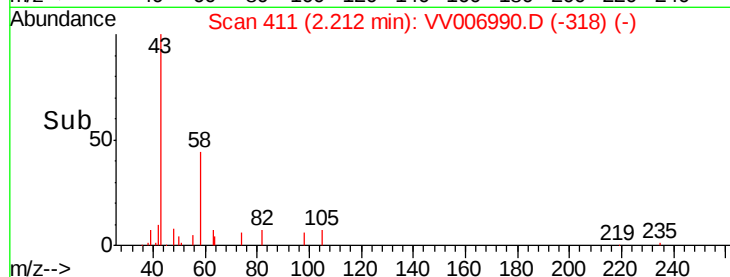
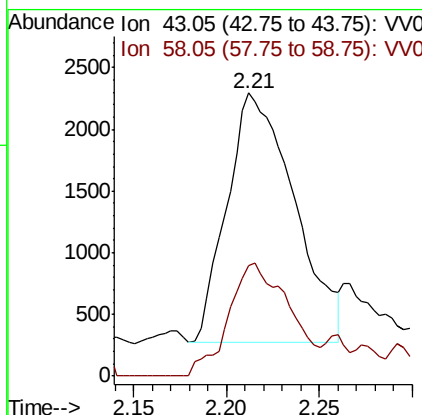
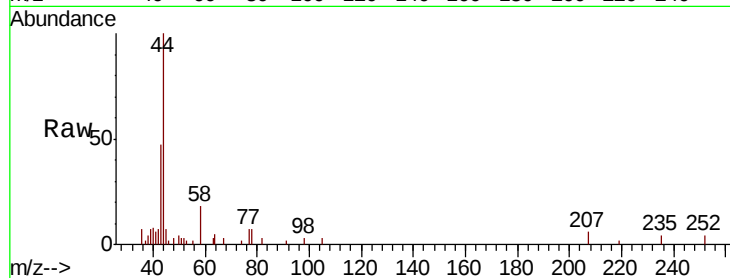
#13
Acetone
Concen: 2.16 ug/L
RT: 2.21 min Scan# 411
Delta R.T. 0.00 min
Lab File: VV006990.D
Acq: 10 Aug 2018 18:15

Instrument :
MSVOA_V
ClientSampled :
MDL01

Tot Ion: 43 Resp: 5130
Ion Ratio Lower Upper
43 100
58 41.3 0.0 71.4

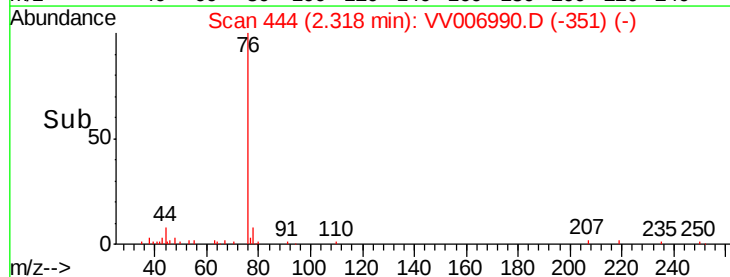
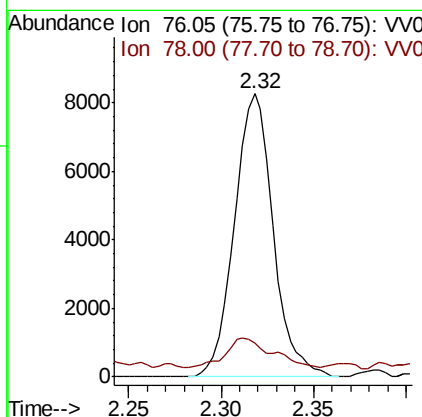
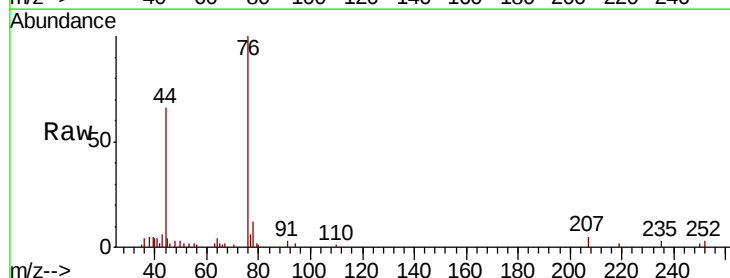
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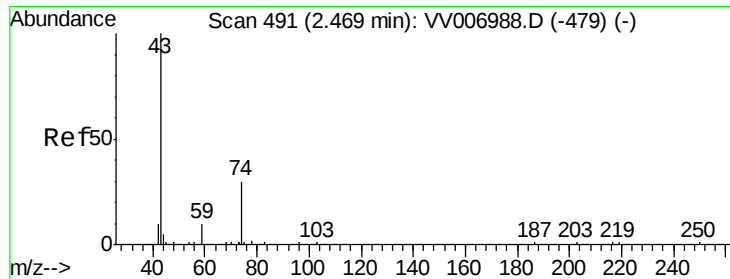
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#14
Carbon disulfide
Concen: 0.20 ug/L
RT: 2.32 min Scan# 444
Delta R.T. 0.00 min
Lab File: VV006990.D
Acq: 10 Aug 2018 18:15

Tgt Ion: 76 Resp: 11993
Ion Ratio Lower Upper
76 100
78 12.1 7.6 11.4#





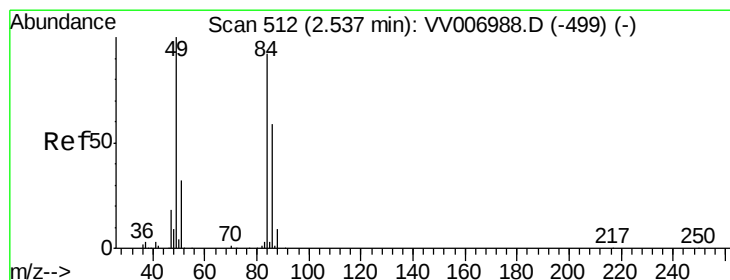
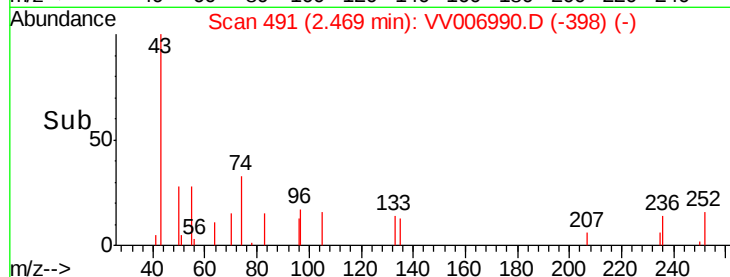
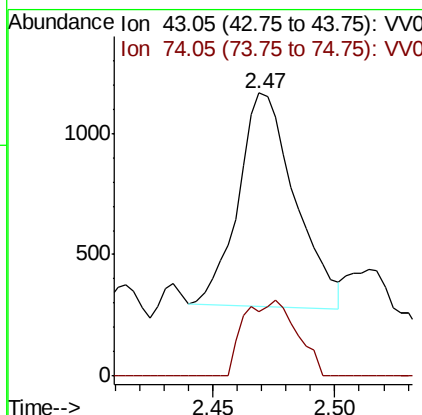
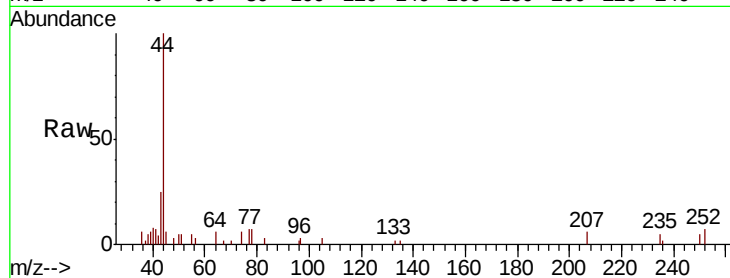
#15
Methvl Acetate
Concen: 0.21 ug/L
RT: 2.47 min Scan# 491
Delta R.T. 0.00 min
Lab File: VV006990.D
Acq: 10 Aug 2018 18:15

Instrument :
MSVOA_V
ClientSampled :
MDL01

Tot Ion: 43 Resp: 1420
Ion Ratio Lower Upper
43 100
74 33.1 24.6 37.0

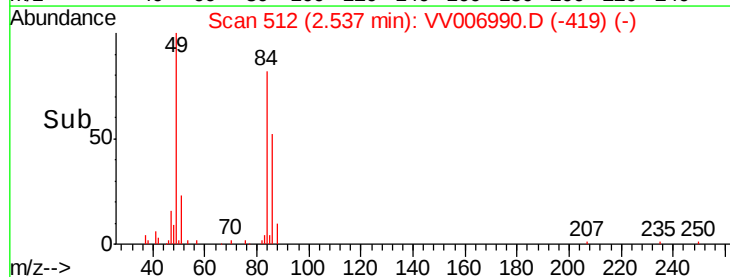
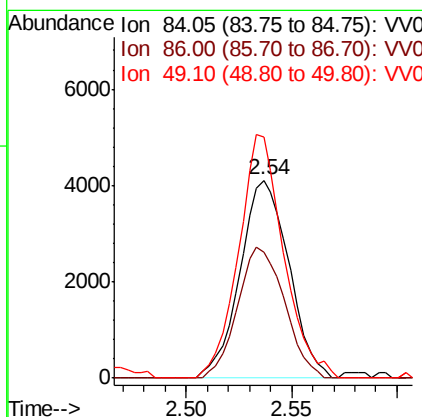
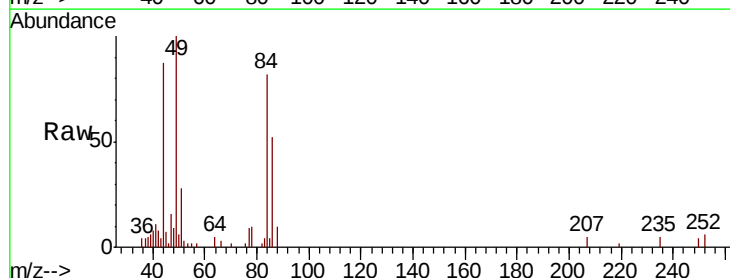
Manual Integrations
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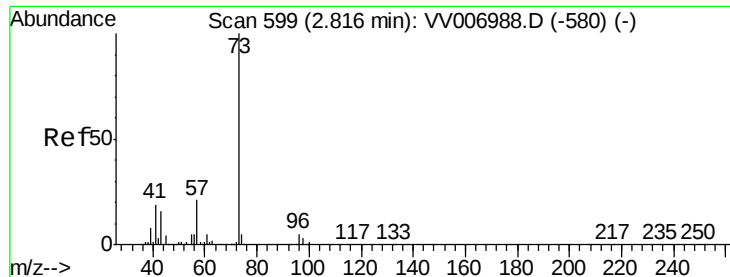
apatel
8/13/2018 5:34:49 PM



#16
Methylene chloride
Concen: 0.31 ug/L
RT: 2.54 min Scan# 512
Delta R.T. 0.00 min
Lab File: VV006990.D
Acq: 10 Aug 2018 18:15

Tgt Ion: 84 Resp: 6603
Ion Ratio Lower Upper
84 100
86 63.8 45.7 84.9
49 121.9 78.8 146.4





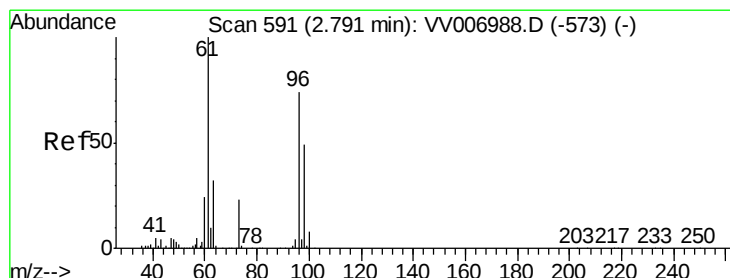
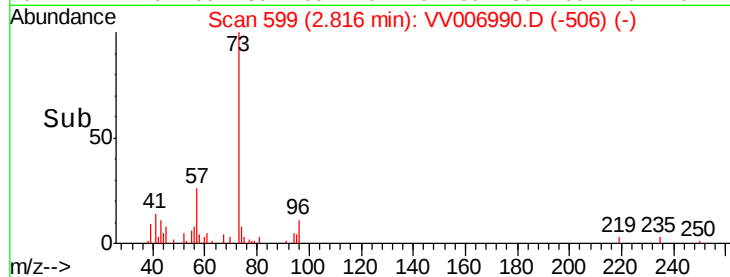
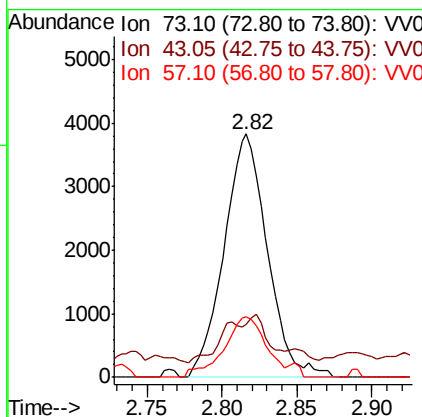
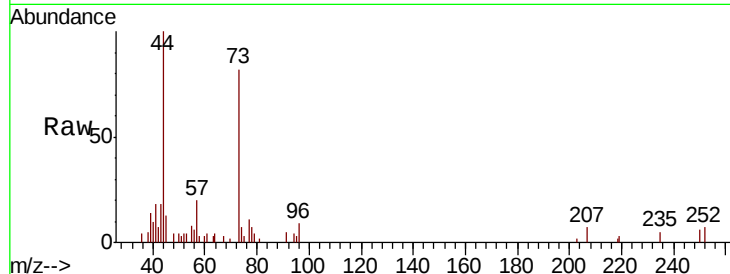
#17
Methvl tert-butvl Ether
Concen: 0.18 ug/L
RT: 2.82 min Scan# 599
Delta R.T. 0.00 min
Lab File: VV006990.D
Acq: 10 Aug 2018 18:15

Instrument :
MSVOA_V
ClientSampled :
MDL01

Tot Ion	Ratio	Lower	Upper
73	100		
43	6.2	14.4	21.6#
57	24.0	17.9	26.9

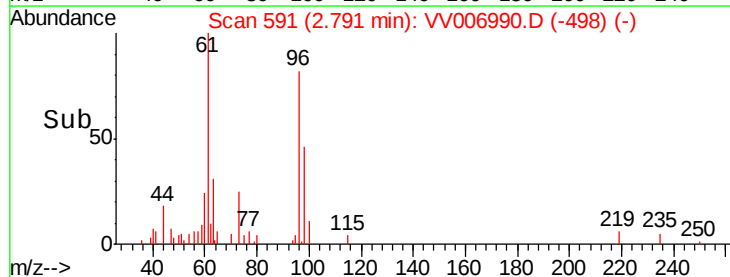
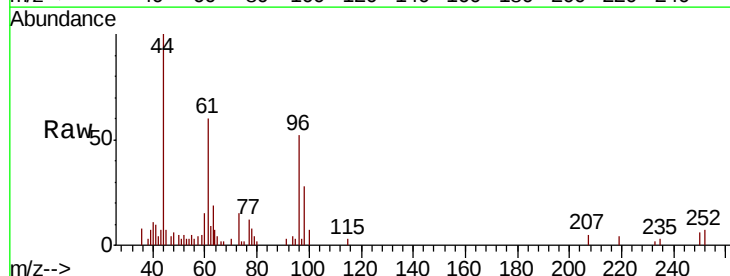
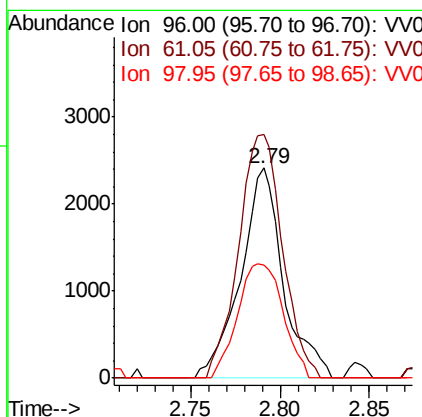
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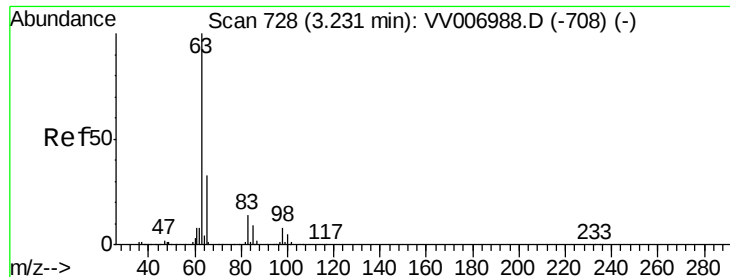
apatel
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#18
trans-1,2-Dichloroethene
Concen: 0.21 ug/L
RT: 2.79 min Scan# 591
Delta R.T. 0.00 min
Lab File: VV006990.D
Acq: 10 Aug 2018 18:15

Tgt Ion	Ratio	Lower	Upper
96	100		
61	116.0	91.1	169.3
98	53.6	43.5	80.9





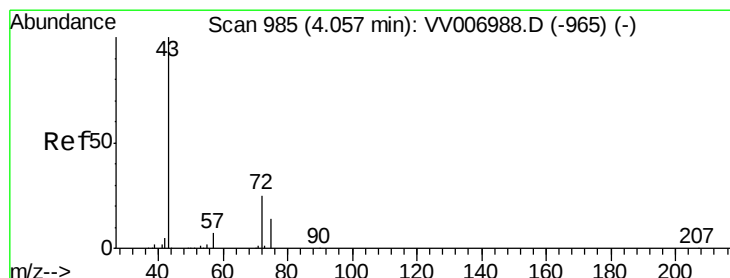
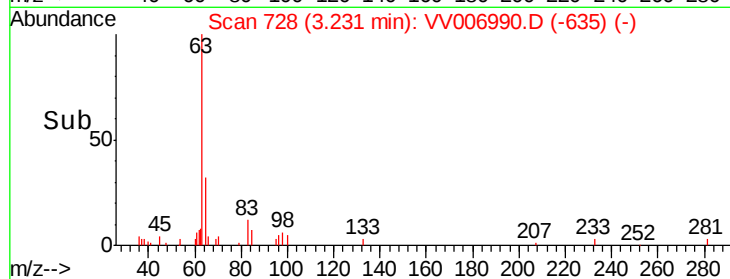
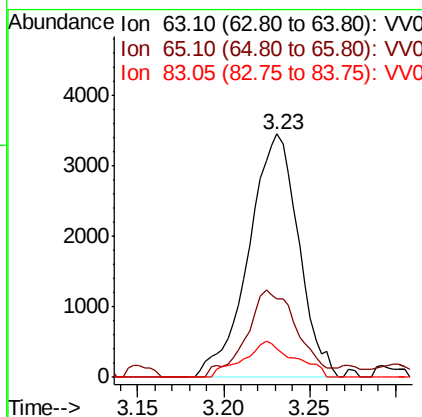
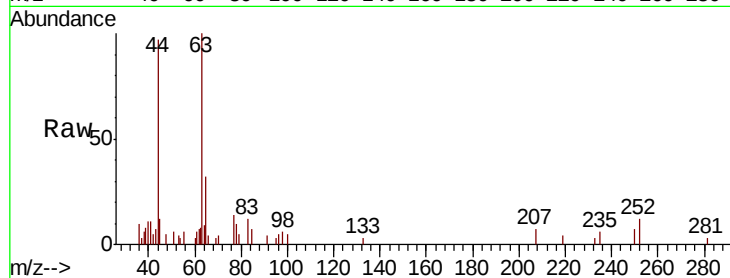
#19
 1,1-Dichloroethane
 Concen: 0.20 ug/L
 RT: 3.23 min Scan# 728
 Delta R.T. 0.00 min
 Lab File: VV006990.D
 Acq: 10 Aug 2018 18:15

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion:	63	Resp:	6954
Ion	Ratio	Lower	Upper
63	100		
65	36.0	21.7	40.3
83	11.6	10.0	18.6

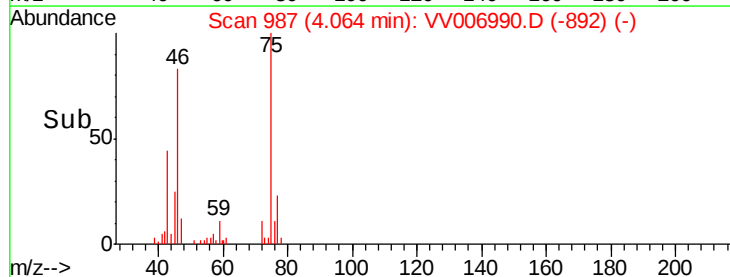
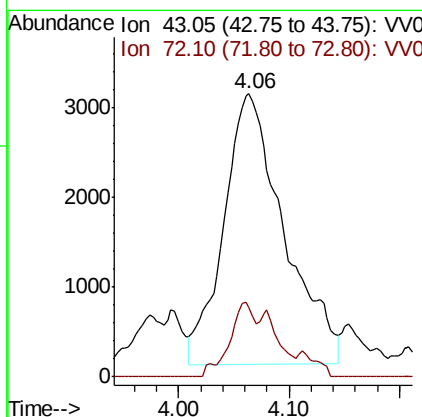
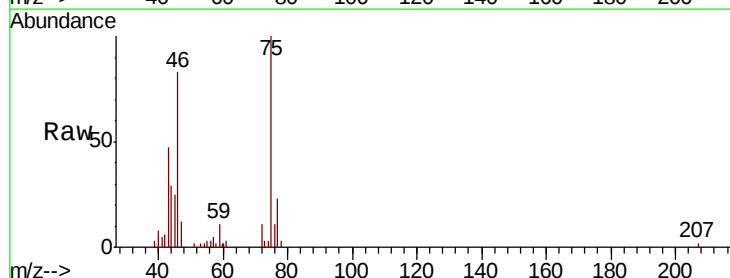
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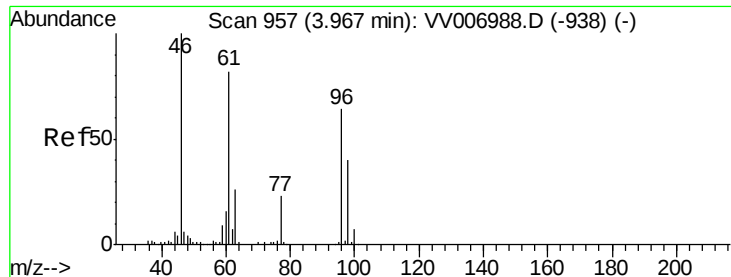
apatel
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#21
 2-Butanone
 Concen: 2.22 ug/L
 RT: 4.06 min Scan# 987
 Delta R.T. 0.01 min
 Lab File: VV006990.D
 Acq: 10 Aug 2018 18:15

Tgt Ion:	43	Resp:	11413
Ion	Ratio	Lower	Upper
43	100		
72	11.5	12.4	37.2#





#22

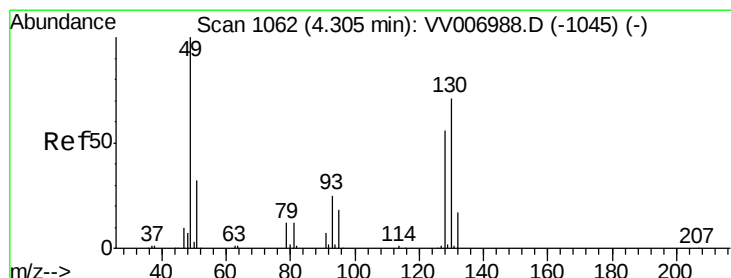
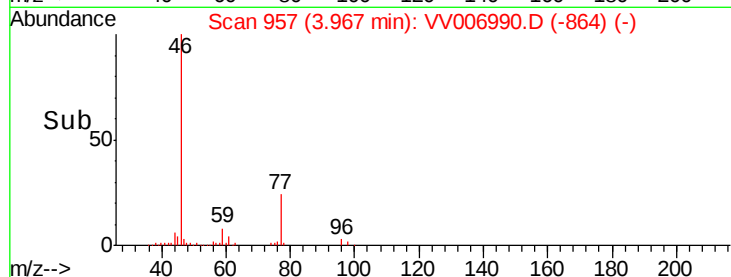
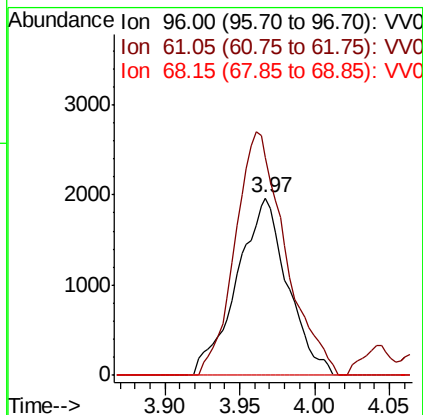
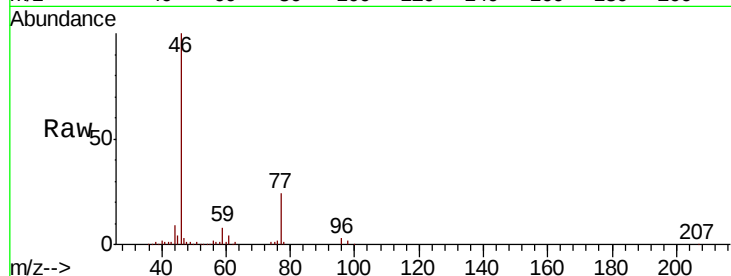
cis-1,2-Dichloroethene
 Concen: 0.21 ug/L
 RT: 3.97 min Scan# 957
 Delta R.T. 0.00 min
 Lab File: VV006990.D
 Acq: 10 Aug 2018 18:15

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
96	100		
61	123.0	91.1	169.1
68	0.0	0.0	0.0

Manual Integrations
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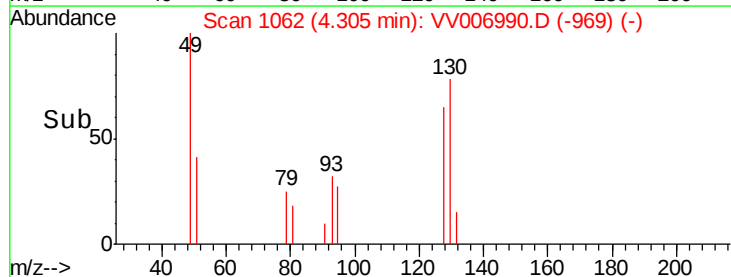
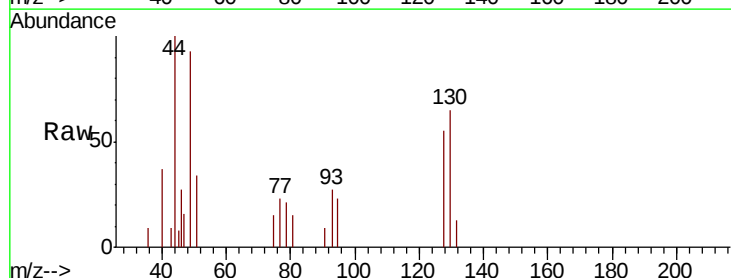
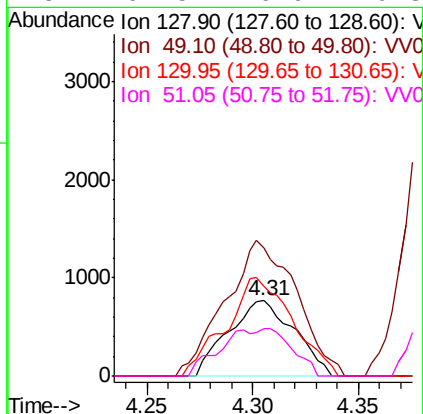
apatel
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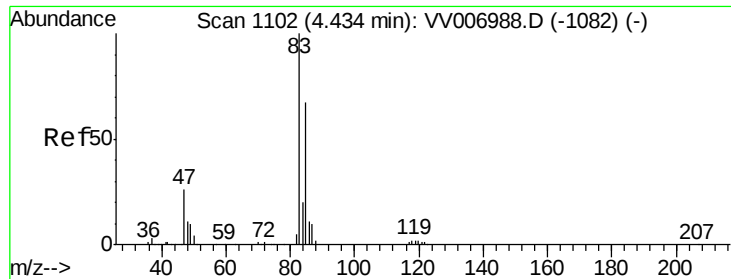


#23

Bromochloromethane
 Concen: 0.19 ug/L
 RT: 4.31 min Scan# 1062
 Delta R.T. 0.00 min
 Lab File: VV006990.D
 Acq: 10 Aug 2018 18:15

Tgt Ion	Ratio	Lower	Upper
128	100		
49	170.5	138.6	257.4
130	119.3	90.0	167.2
51	62.5	46.9	70.3





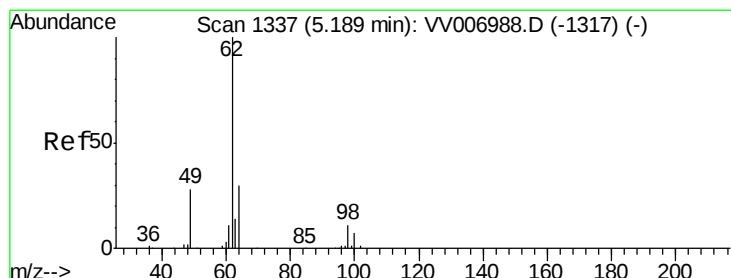
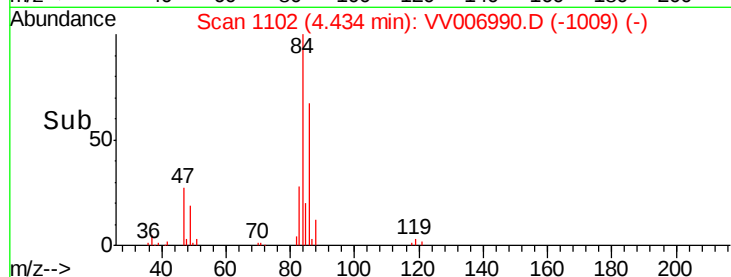
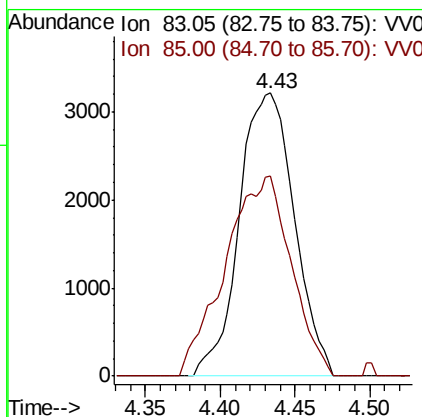
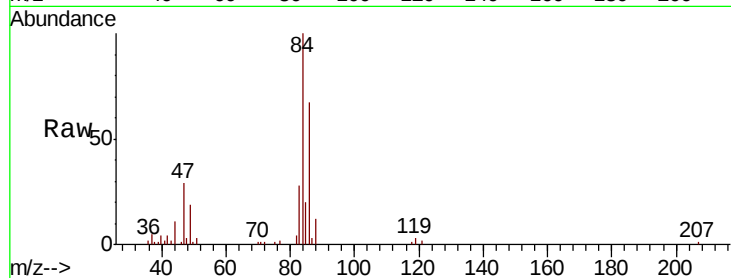
#25
Chloroform
Concen: 0.22 ug/L
RT: 4.43 min Scan# 1102
Delta R.T. 0.00 min
Lab File: VV006990.D
Acq: 10 Aug 2018 18:15

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion	83	Resp	8239
Ion Ratio	100	Lower	Upper
85	70.7	44.7	82.9

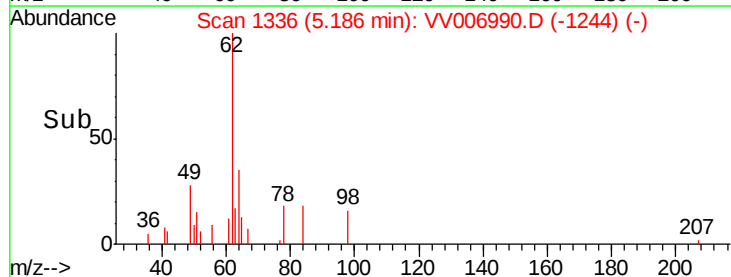
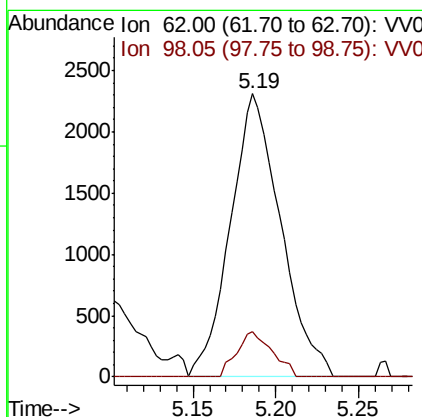
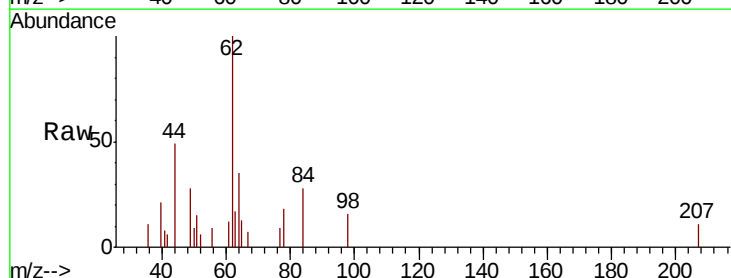
Manual Integrations
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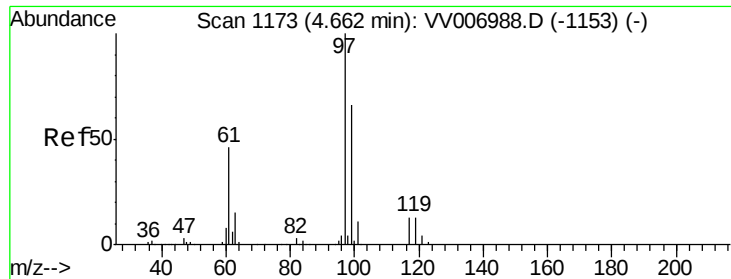
apatel
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#27
1,2-Dichloroethane
Concen: 0.21 ug/L
RT: 5.19 min Scan# 1336
Delta R.T. -0.00 min
Lab File: VV006990.D
Acq: 10 Aug 2018 18:15

Tgt Ion	62	Resp	4878
Ion Ratio	100	Lower	Upper
98	16.1	7.6	11.4#





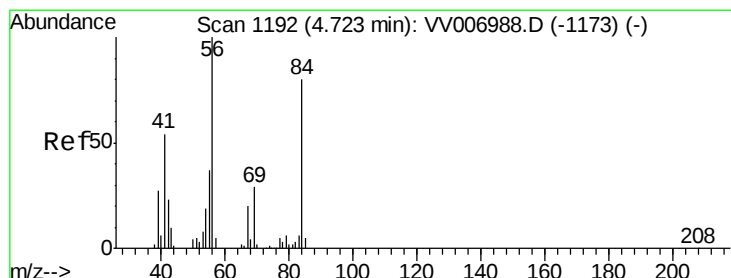
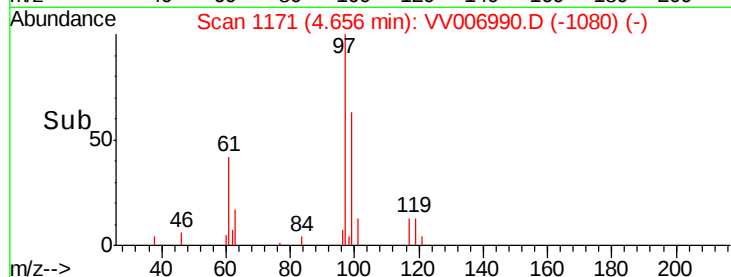
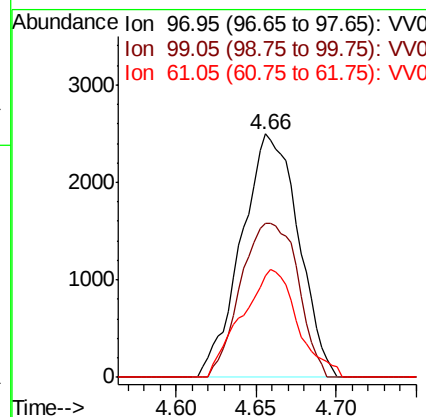
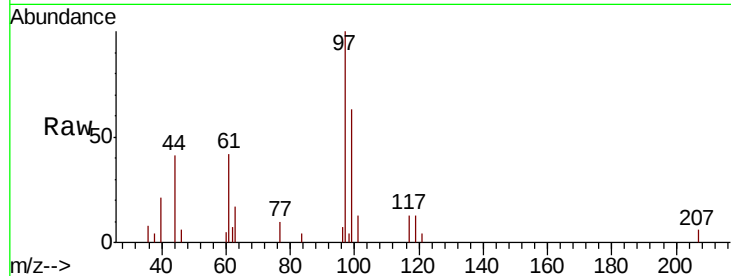
#29
 1,1,1-Trichloroethane
 Concen: 0.19 ug/L
 RT: 4.66 min Scan# 1171
 Delta R.T. -0.01 min
 Lab File: VV006990.D
 Acq: 10 Aug 2018 18:15

Instrument :
 MSVOA_V
 ClientSampled :
 MDL01

Tot Ion	Ratio	Lower	Upper
97	100		
99	63.5	51.0	76.6
61	43.4	36.6	54.8

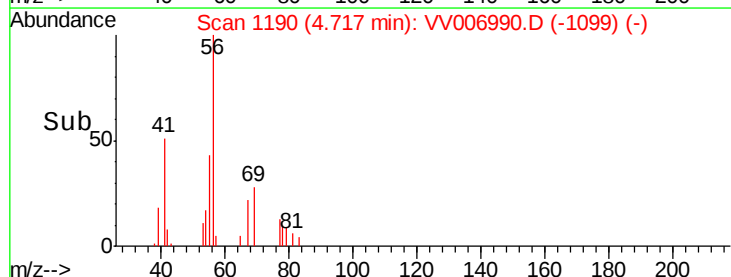
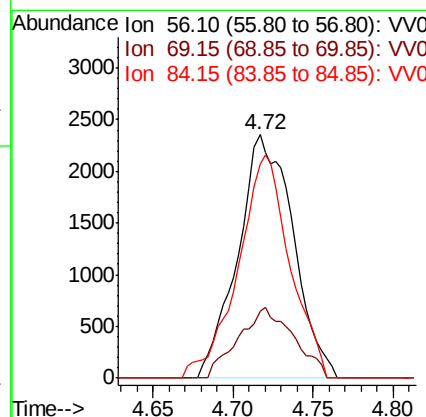
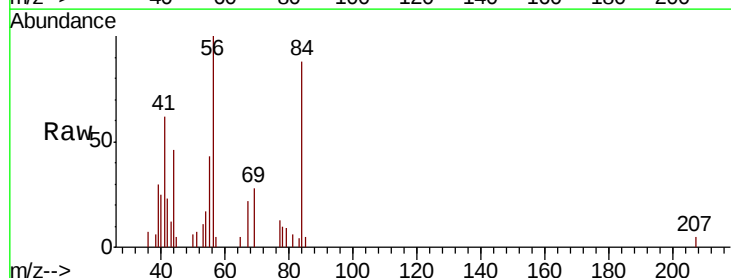
Manual Integrations
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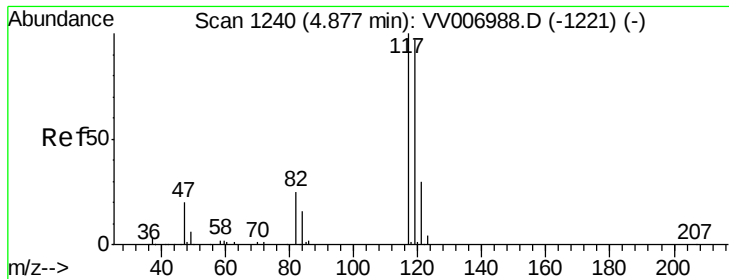
apatel
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#30
 Cyclohexane
 Concen: 0.17 ug/L
 RT: 4.72 min Scan# 1190
 Delta R.T. -0.01 min
 Lab File: VV006990.D
 Acq: 10 Aug 2018 18:15

Tgt Ion	Ratio	Lower	Upper
56	100		
69	28.9	23.8	35.6
84	85.8	67.9	101.9





#31

Carbon tetrachloride

Concen: 0.16 ug/L

RT: 4.88 min Scan# 1241

Delta R.T. 0.00 min

Lab File: VV006990.D

Acq: 10 Aug 2018 18:15

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion:117 Resp: 4340

Ion Ratio Lower Upper

117 100

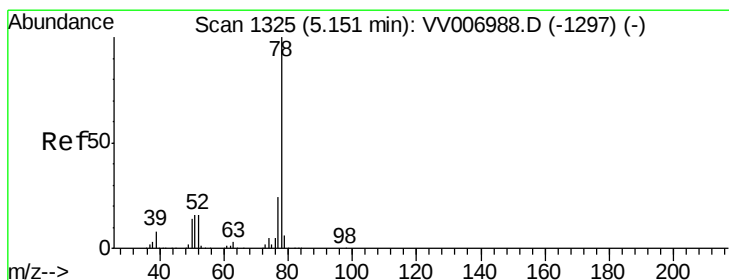
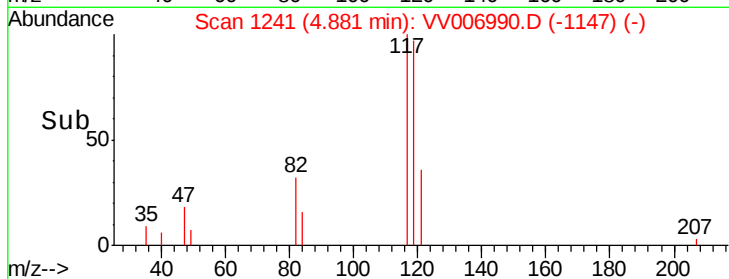
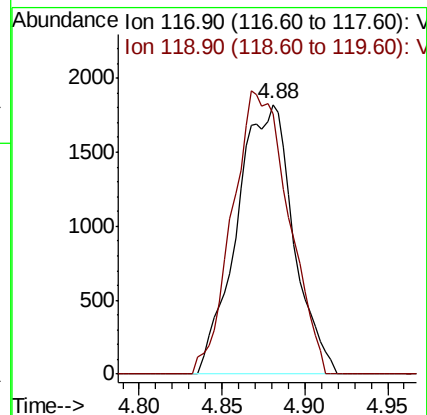
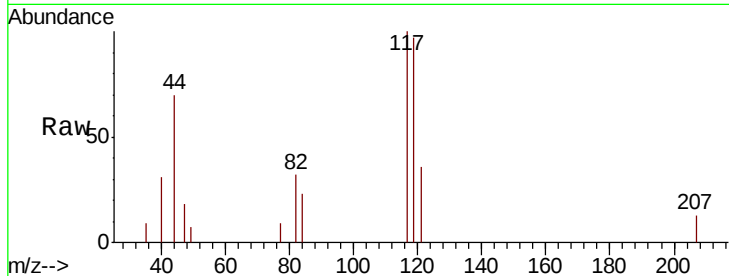
119 104.0 76.2 114.4

Manual Integrations

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apatel

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#33

Benzene

Concen: 0.18 ug/L

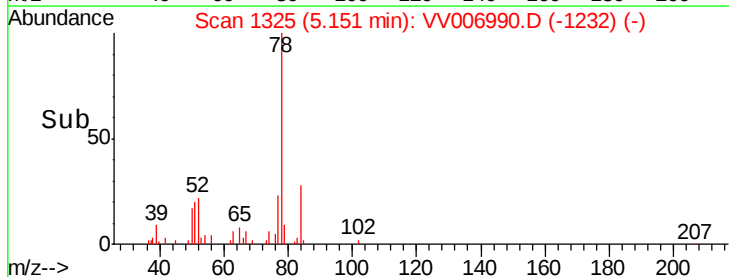
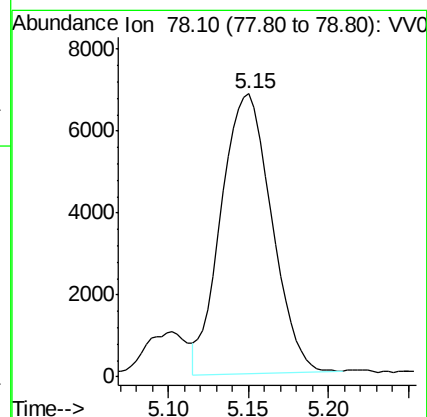
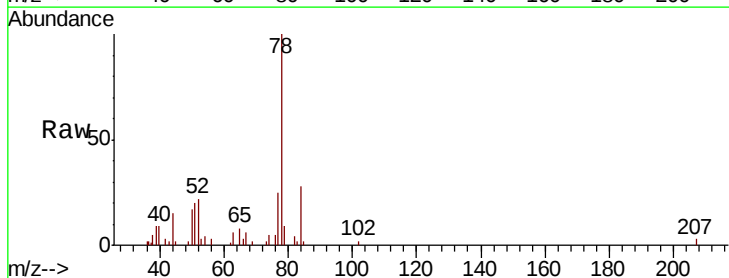
RT: 5.15 min Scan# 1325

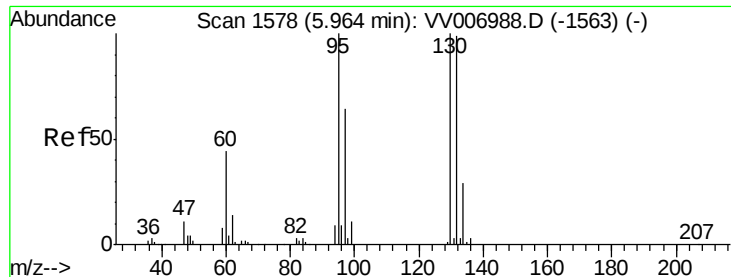
Delta R.T. 0.00 min

Lab File: VV006990.D

Acq: 10 Aug 2018 18:15

Tgt Ion: 78 Resp: 14780





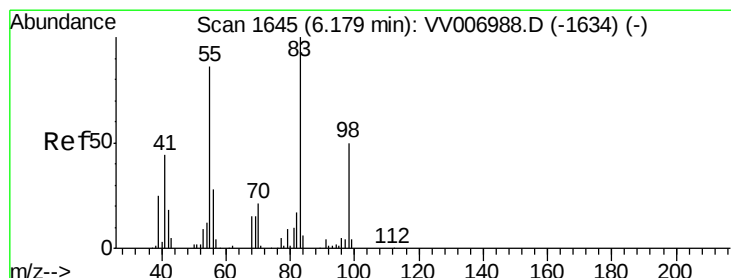
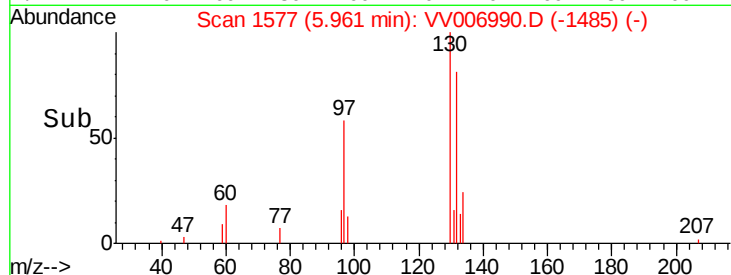
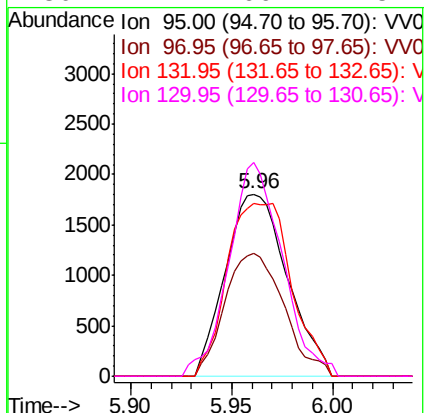
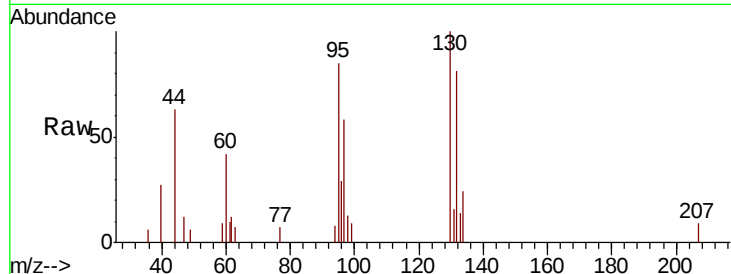
#34
 Trichloroethene
 Concen: 0.19 ug/L
 RT: 5.96 min Scan# 1577
 Delta R.T. -0.00 min
 Lab File: VV006990.D
 Acq: 10 Aug 2018 18:15

Instrument :
 MSVOA_V
 ClientSampled :
 MDL01

Tot Ion:	95	Resp:	3859
Ion	Ratio	Lower	Upper
95	100		
97	67.8	44.8	83.2
132	94.8	65.5	121.6
130	117.4	66.4	123.4

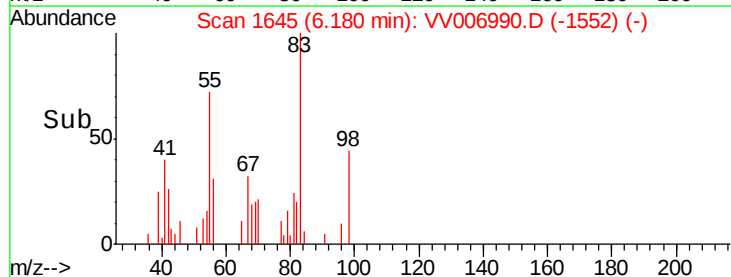
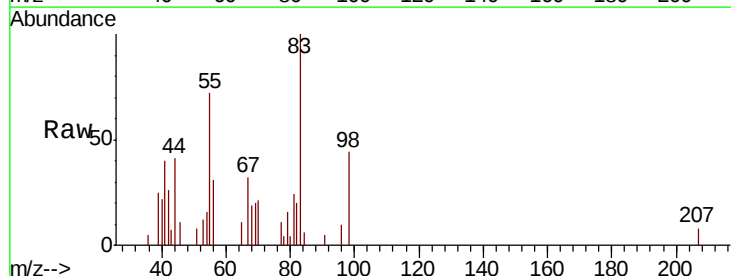
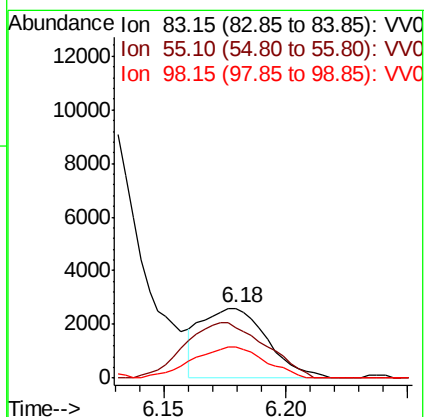
Manual Integrations
 APPROVED

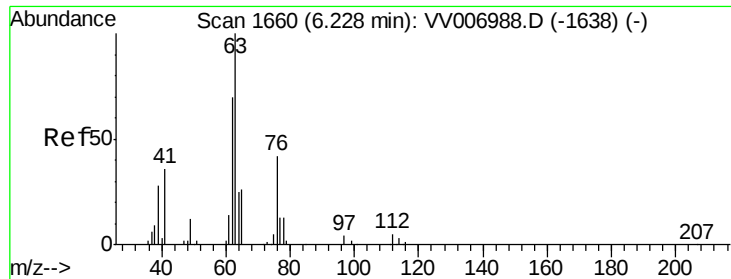
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#35
 Methylcyclohexane
 Concen: 0.15 ug/L
 RT: 6.18 min Scan# 1645
 Delta R.T. 0.00 min
 Lab File: VV006990.D
 Acq: 10 Aug 2018 18:15

Tgt Ion:	83	Resp:	4869
Ion	Ratio	Lower	Upper
83	100		
55	97.2	68.1	102.1
98	49.4	37.9	56.9





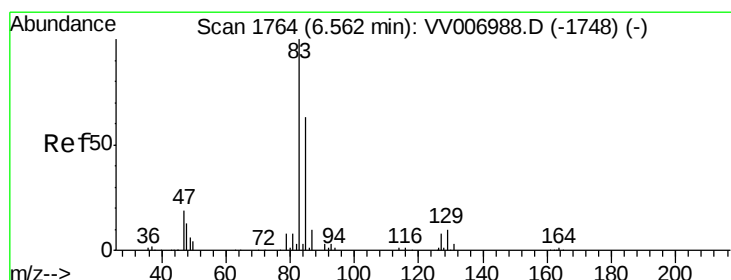
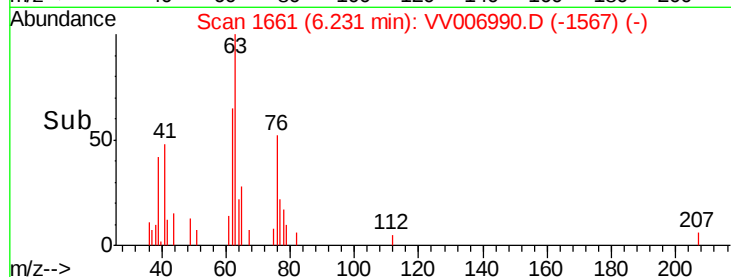
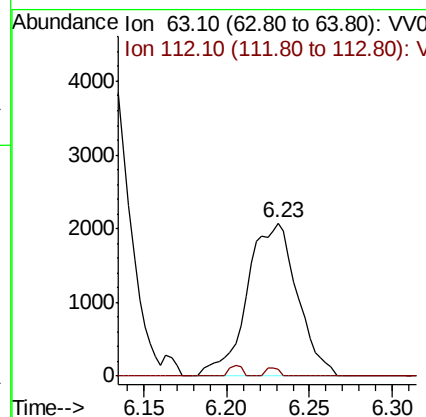
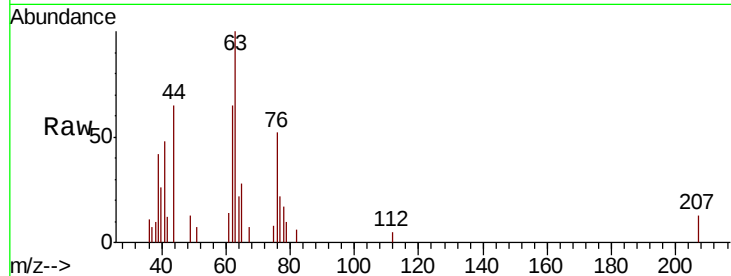
#37
 1,2-Dichloropropane
 Concen: 0.19 ug/L
 RT: 6.23 min Scan# 1661
 Delta R.T. 0.00 min
 Lab File: VV006990.D
 Acq: 10 Aug 2018 18:15

Instrument :
 MSVOA_V
 ClientSampled :
 MDL01

Tot Ion: 63 Resp: 4368
 Ion Ratio Lower Upper
 63 100
 112 1.4 3.5 5.3#

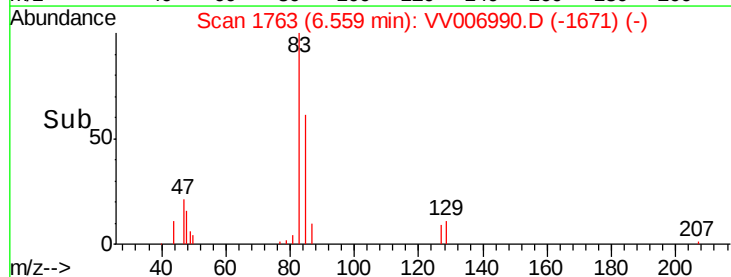
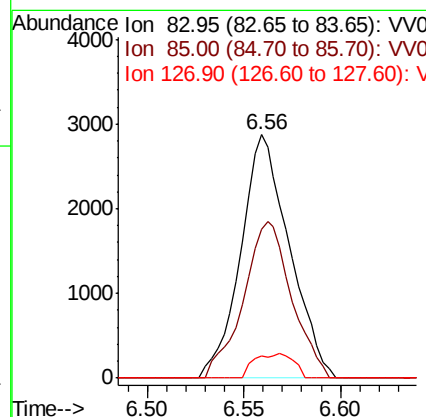
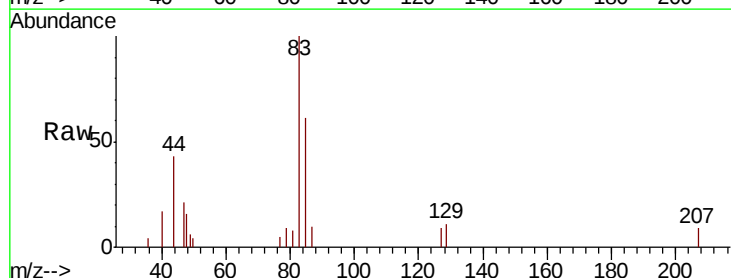
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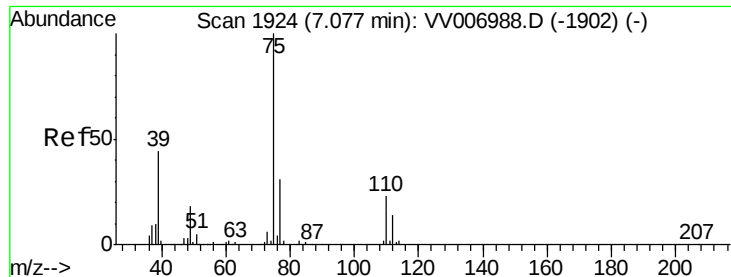
apatel
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#38
 Bromodichloromethane
 Concen: 0.19 ug/L
 RT: 6.56 min Scan# 1763
 Delta R.T. -0.00 min
 Lab File: VV006990.D
 Acq: 10 Aug 2018 18:15

Tgt Ion: 83 Resp: 5015
 Ion Ratio Lower Upper
 83 100
 85 60.9 43.8 81.4
 127 9.0 6.6 10.0





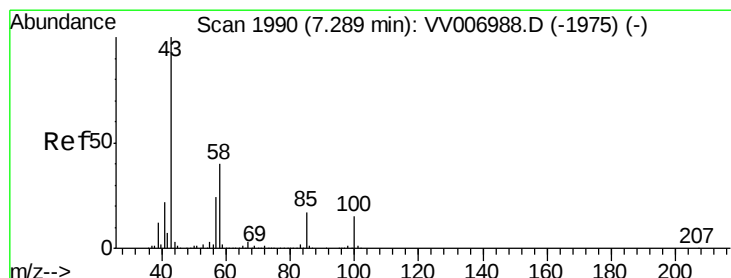
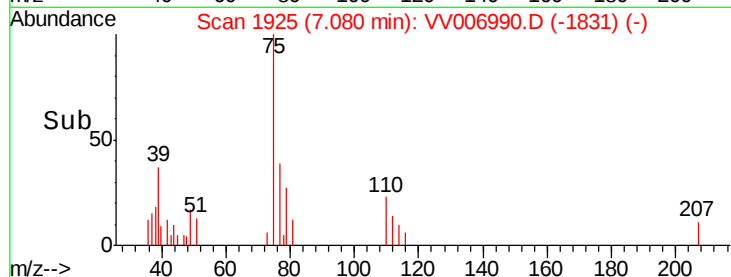
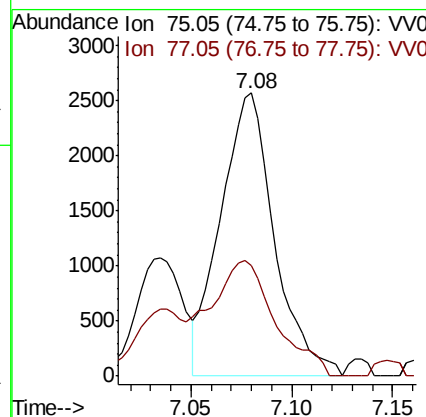
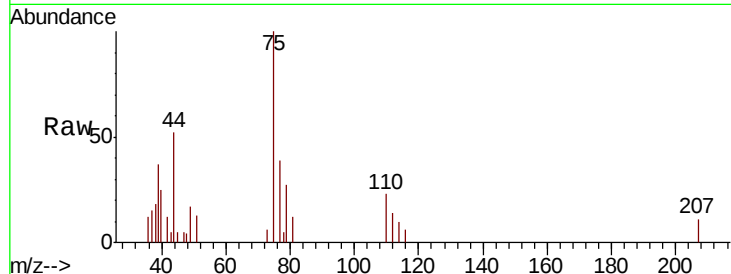
#39
 cis-1,3-Dichloropropene
 Concen: 0.17 ug/L
 RT: 7.08 min Scan# 1925
 Delta R.T. 0.00 min
 Lab File: VV006990.D
 Acq: 10 Aug 2018 18:15

Instrument :
 MSVOA_V
 ClientSampled :
 MDL01

Tot Ion	Ratio	Lower	Upper
75	100		
77	39.0	22.0	40.8

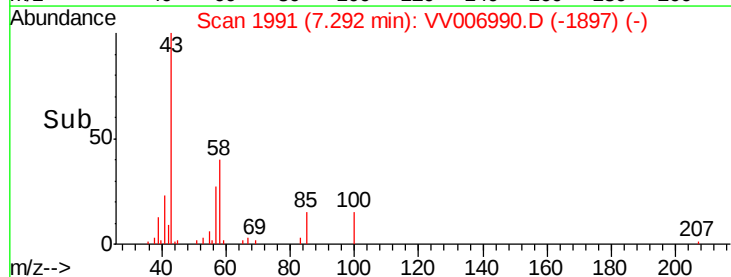
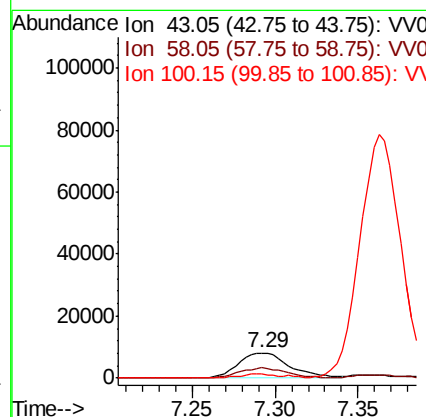
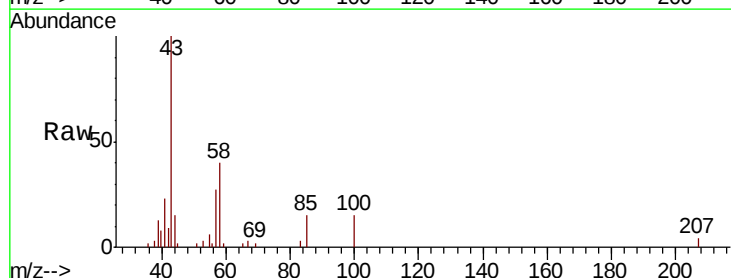
Manual Integrations
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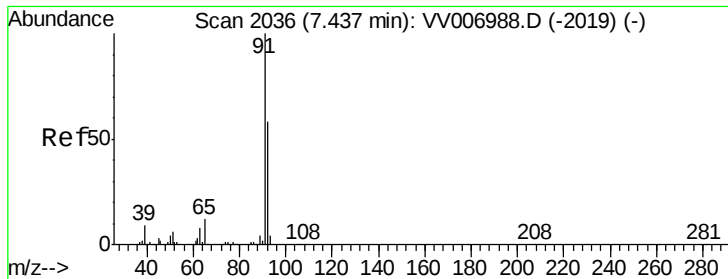
apatel
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#40
 4-Methyl-2-pentanone
 Concen: 1.42 ug/L
 RT: 7.29 min Scan# 1991
 Delta R.T. 0.00 min
 Lab File: VV006990.D
 Acq: 10 Aug 2018 18:15

Tgt Ion	Ratio	Lower	Upper
43	100		
58	38.3	30.7	46.1
100	0.0	11.2	16.8#





#42

Toluene

Concen: 0.17 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VV006990.D

Acq: 10 Aug 2018 18:15

Instrument :

MSVOA_V

ClientSampleId :

MDL01

Tot Ion: 91 Resp: 13449

Ion Ratio Lower Upper

91 100

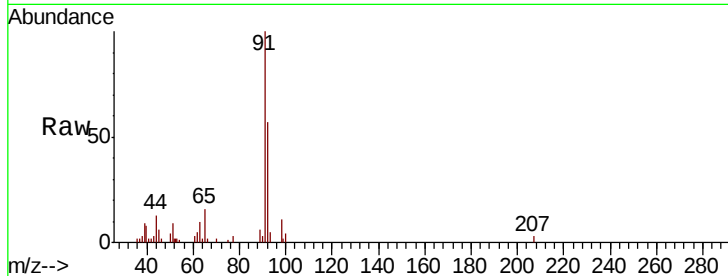
92 56.9 40.2 74.6

Manual Integrations

APPROVED

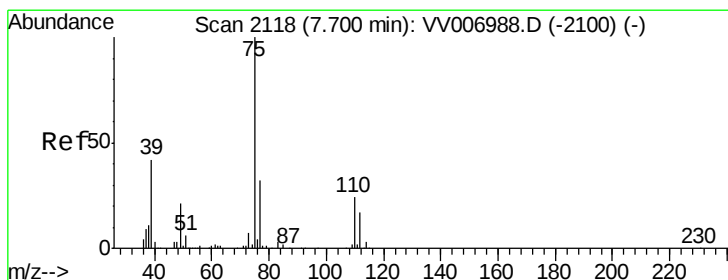
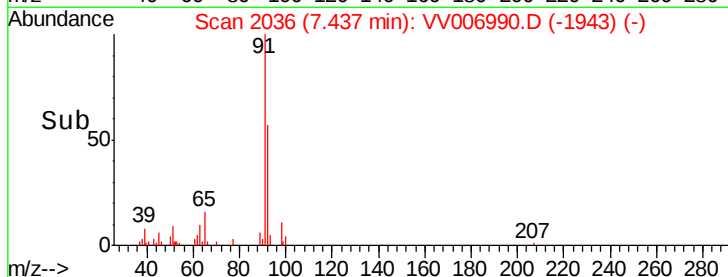
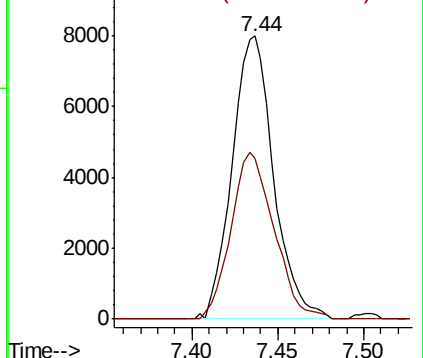
apatel

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Abundance Ion 91.15 (90.85 to 91.85): VV006988.D (-2019) (-)

Ion 92.15 (91.85 to 92.85): VV006990.D (-1943) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.18 ug/L

RT: 7.70 min Scan# 2117

Delta R.T. -0.00 min

Lab File: VV006990.D

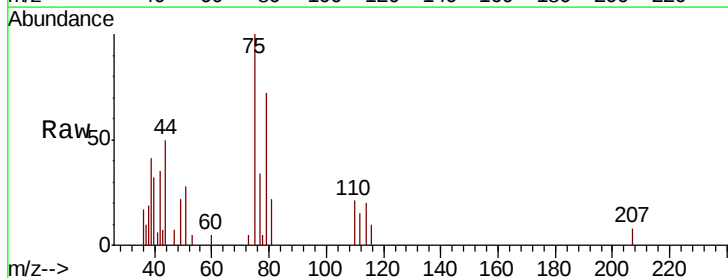
Acq: 10 Aug 2018 18:15

Tgt Ion: 75 Resp: 4058

Ion Ratio Lower Upper

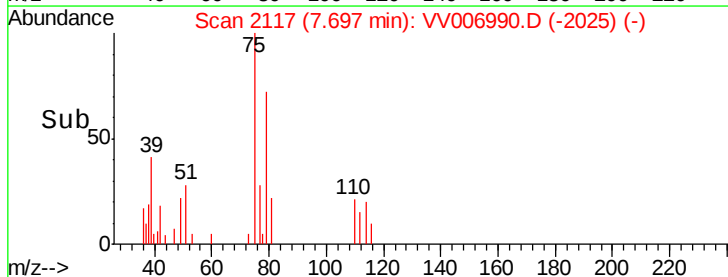
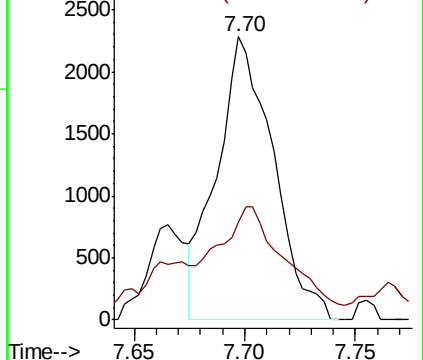
75 100

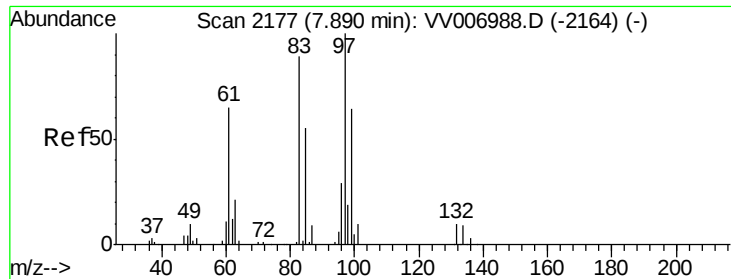
77 34.4 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VV006988.D (-2100) (-)

Ion 77.05 (76.75 to 77.75): VV006990.D (-2025) (-)





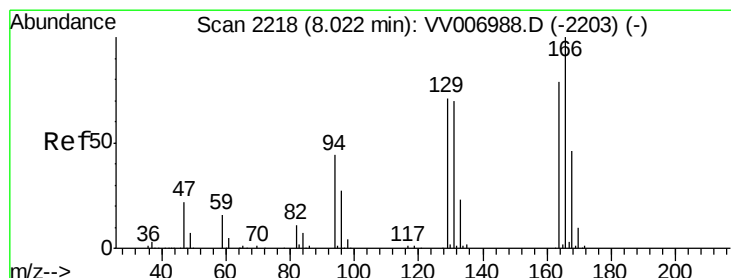
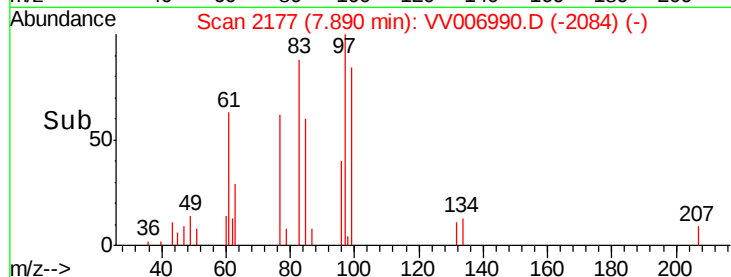
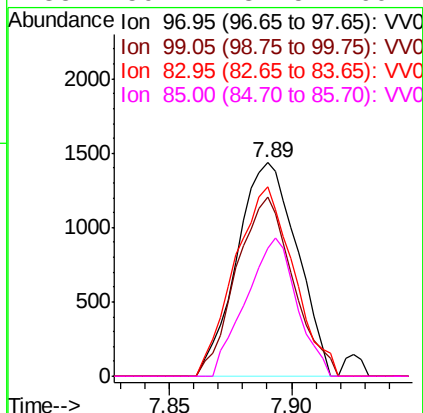
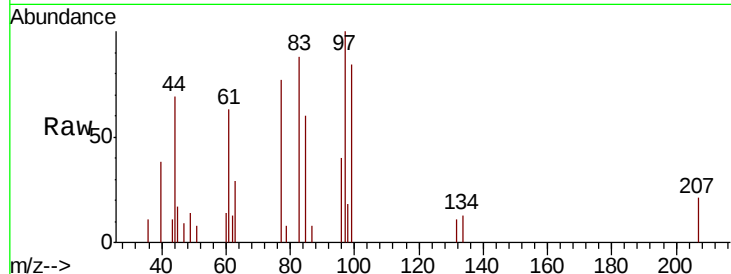
#45
 1,1,2-Trichloroethane
 Concen: 0.16 ug/L
 RT: 7.89 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VV006990.D
 Acq: 10 Aug 2018 18:15

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL01

Tot Ion	Ratio	Lower	Upper
97	100		
99	83.7	40.6	75.4#
83	88.4	58.0	107.8
85	59.7	37.5	69.7

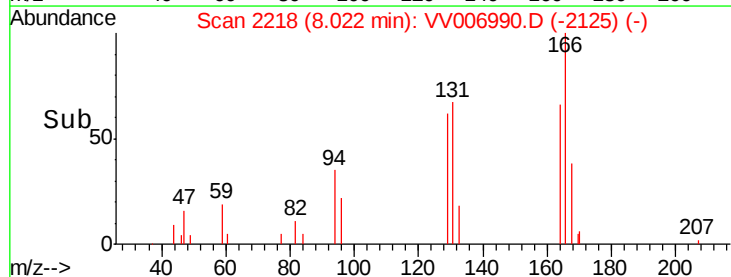
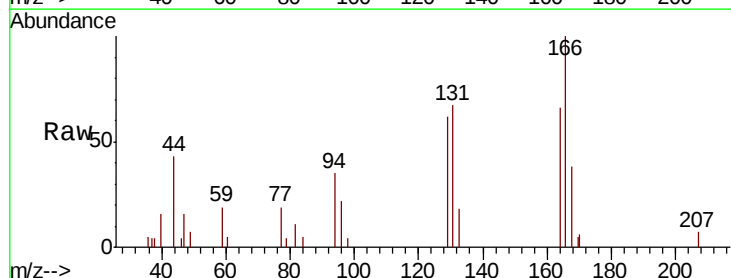
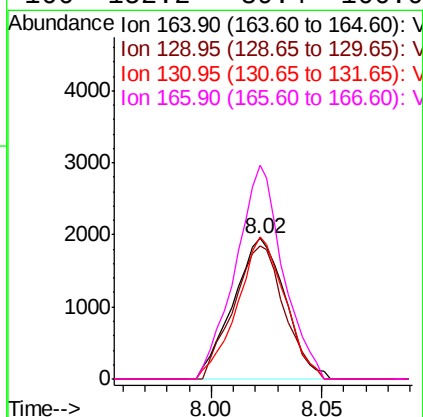
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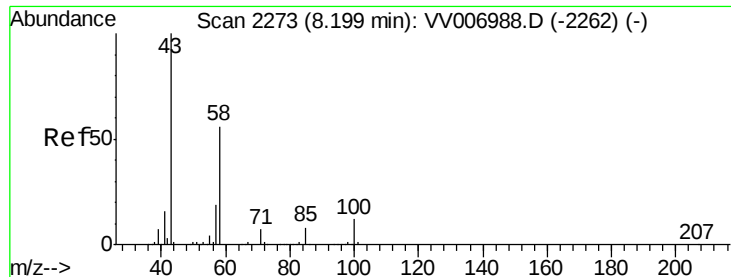
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#47
 Tetrachloroethene
 Concen: 0.20 ug/L
 RT: 8.02 min Scan# 2218
 Delta R.T. 0.00 min
 Lab File: VV006990.D
 Acq: 10 Aug 2018 18:15

Tgt Ion	Ratio	Lower	Upper
164	100		
129	95.1	65.9	122.3
131	101.4	64.2	119.2
166	152.2	89.4	166.0





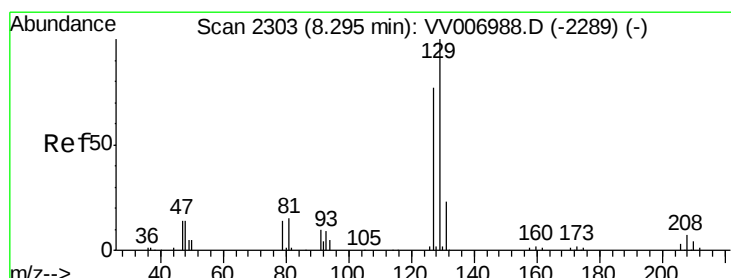
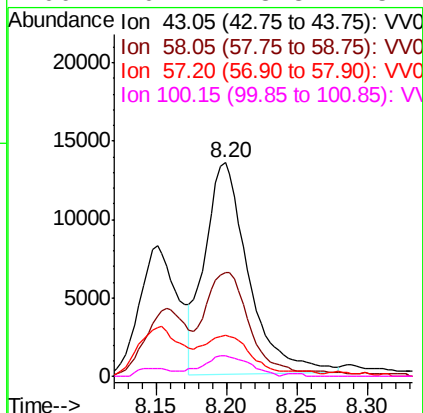
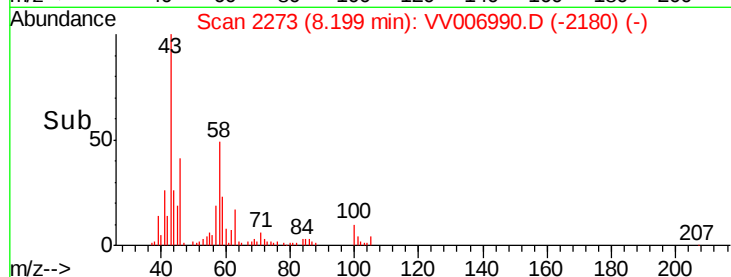
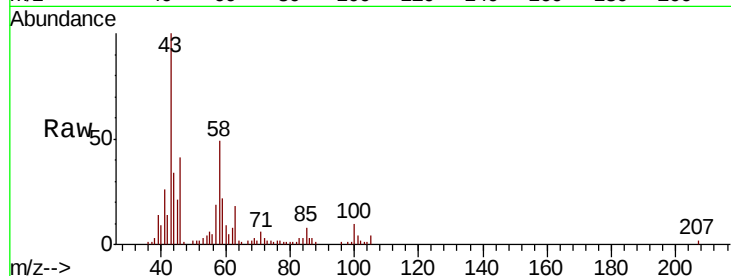
#48
2-Hexanone
Concen: 3.32 ug/L
RT: 8.20 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VV006990.D
Acq: 10 Aug 2018 18:15

Instrument :
MSVOA_V
ClientSampled :
MDL01

Tot Ion	Ion	Ratio	Lower	Upper
29117	43	100		
	58	46.3	44.2	66.2
	57	18.6	14.8	22.2
	100	10.7	8.8	13.2

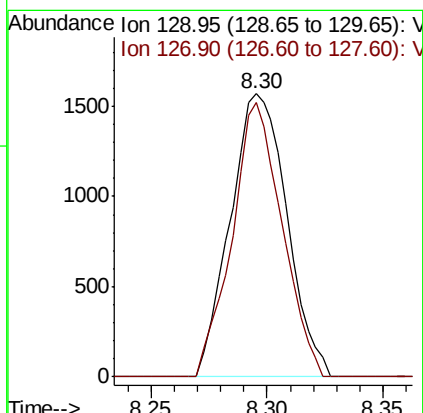
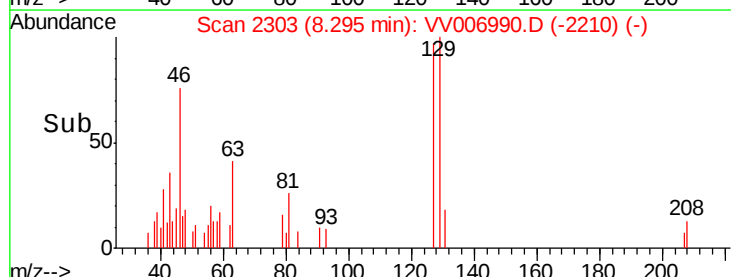
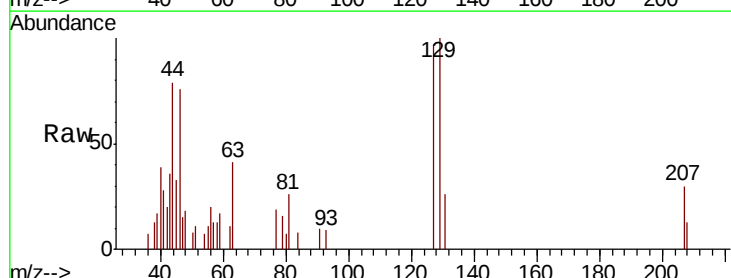
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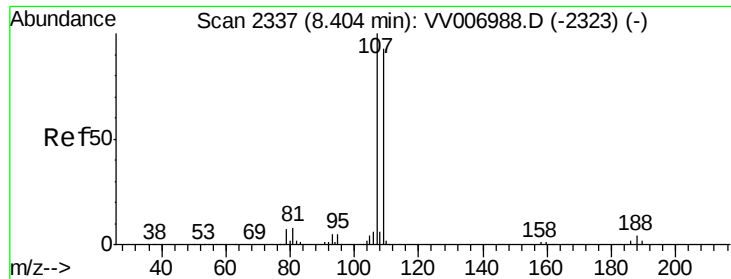
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#49
Dibromochloromethane
Concen: 0.17 ug/L
RT: 8.30 min Scan# 2303
Delta R.T. 0.00 min
Lab File: VV006990.D
Acq: 10 Aug 2018 18:15

Tgt Ion	Ion	Ratio	Lower	Upper
2658	129	100		
	127	97.0	53.3	98.9





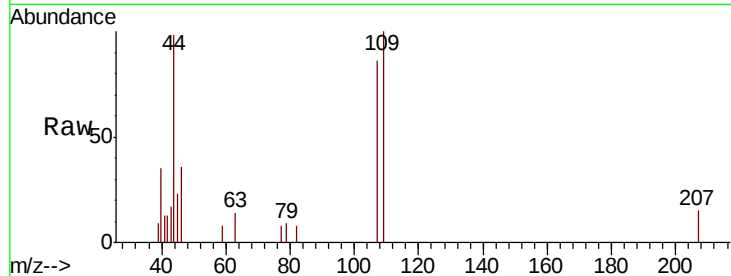
#50
1,2-Dibromoethane
Concen: 0.18 ug/L
RT: 8.40 min Scan# 2335
Delta R.T. -0.01 min
Lab File: VV006990.D
Acq: 10 Aug 2018 18:15

Instrument :
MSVOA_V
ClientSampleId :
MDL01

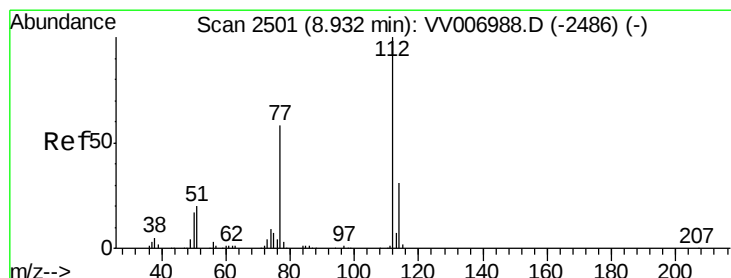
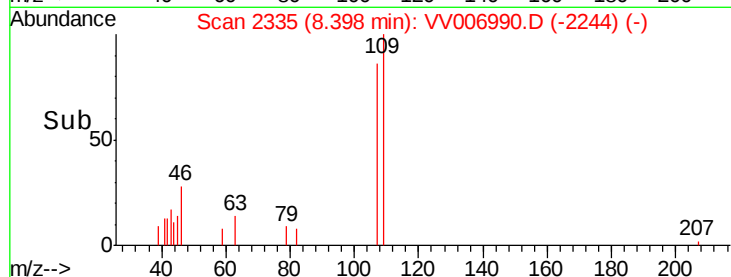
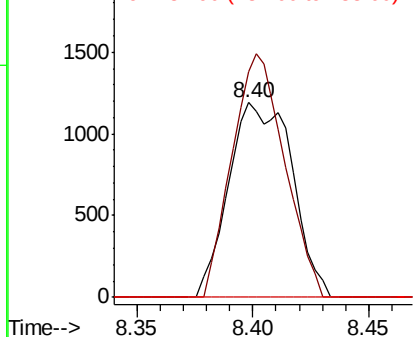
Tot Ion	Ratio	Resp	Lower	Upper
107	100			
109	116.2	64.1	119.1	
188	0.0	4.0	6.0	

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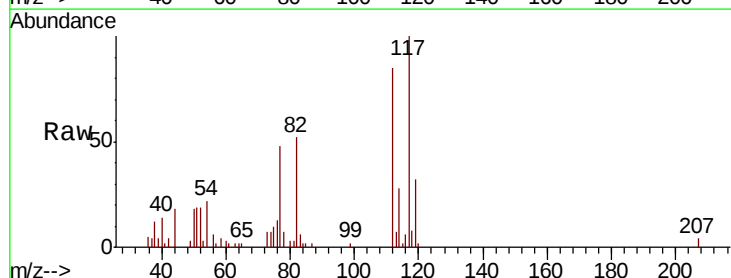


Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V

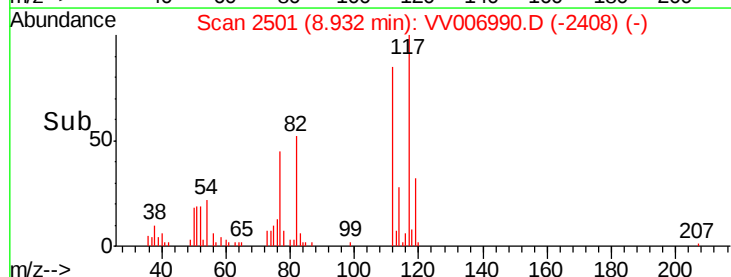
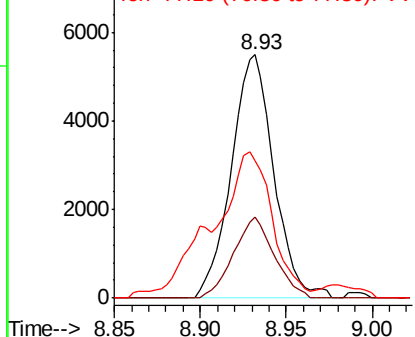


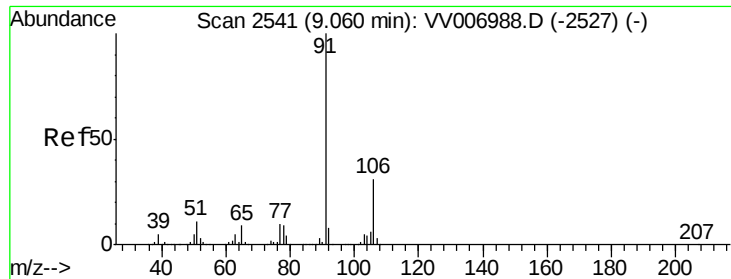
#51
Chlorobenzene
Concen: 0.18 ug/L
RT: 8.93 min Scan# 2501
Delta R.T. 0.00 min
Lab File: VV006990.D
Acq: 10 Aug 2018 18:15

Tgt Ion	Ratio	Resp	Lower	Upper
112	100			
114	33.5	21.8	40.6	
77	56.3	48.0	72.0	



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





#52

Ethylbenzene

Concen: 0.16 ug/L

RT: 9.06 min Scan# 2540

Delta R.T. -0.00 min

Lab File: VV006990.D

Acq: 10 Aug 2018 18:15

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion: 91 Resp: 13070

Ion Ratio Lower Upper

91 100

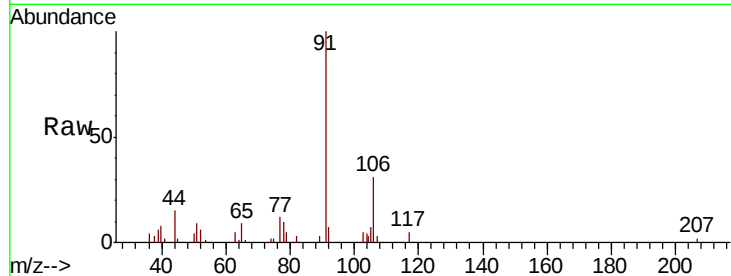
106 30.7 21.3 39.5

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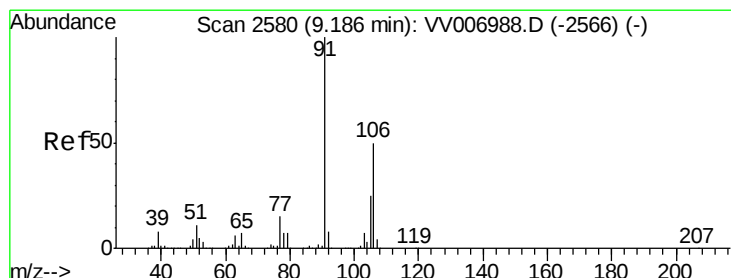
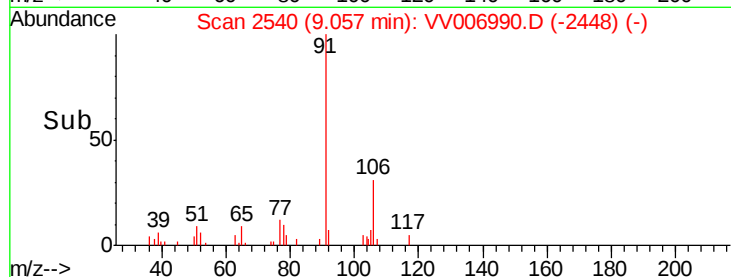
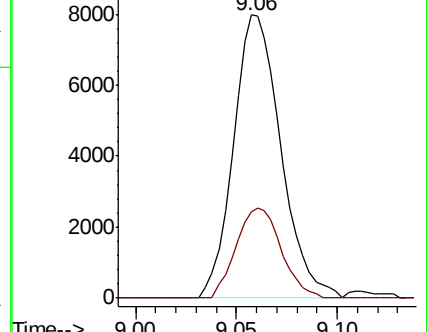
apatel

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Abundance Ion 91.15 (90.85 to 91.85): VV006988.D (-2527) (-)

Ion 106.15 (105.85 to 106.85): VV006988.D (-2527) (-)



#53

m,p-xylene

Concen: 0.14 ug/L

RT: 9.19 min Scan# 2581

Delta R.T. 0.00 min

Lab File: VV006990.D

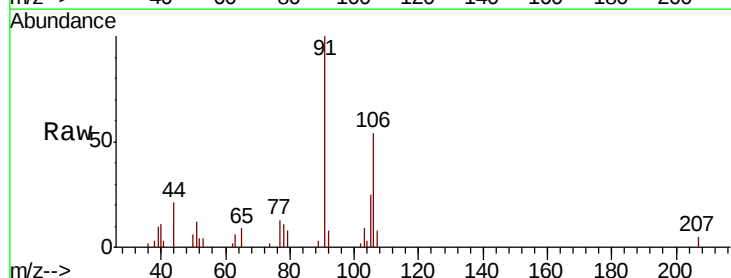
Acq: 10 Aug 2018 18:15

Tgt Ion: 106 Resp: 4187

Ion Ratio Lower Upper

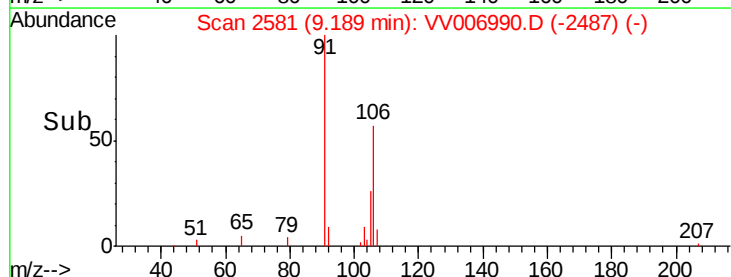
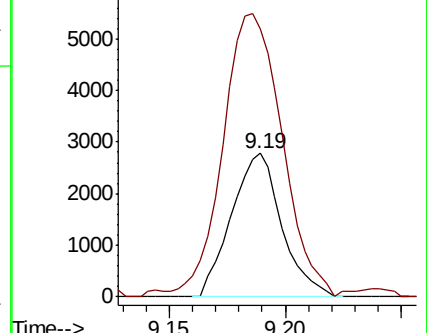
106 100

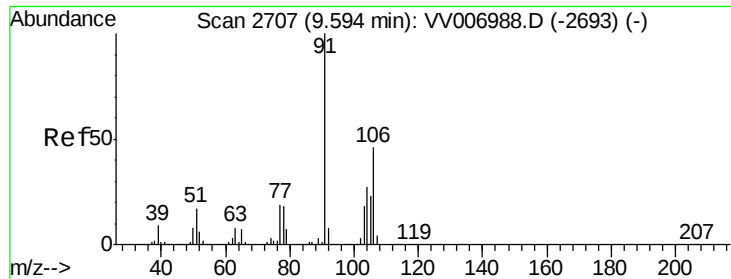
91 186.3 141.6 263.0



Abundance Ion 106.15 (105.85 to 106.85): VV006988.D (-2566) (-)

Ion 91.15 (90.85 to 91.85): VV006988.D (-2566) (-)





#54

o-xylene

Concen: 0.15 ug/L

RT: 9.59 min Scan# 2707

Delta R.T. 0.00 min

Lab File: VV006990.D

Acq: 10 Aug 2018 18:15

Instrument :

MSVOA_V

ClientSampled :

MDL01

Tot Ion:106 Resp: 4405

Ion Ratio Lower Upper

106 100

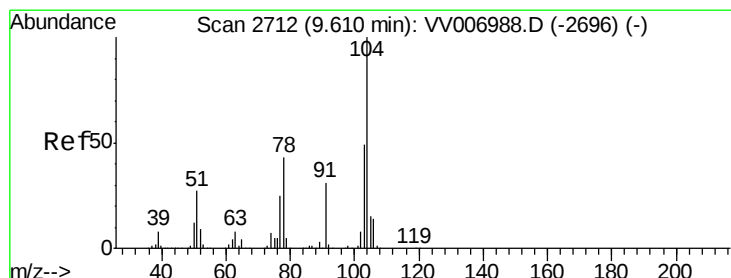
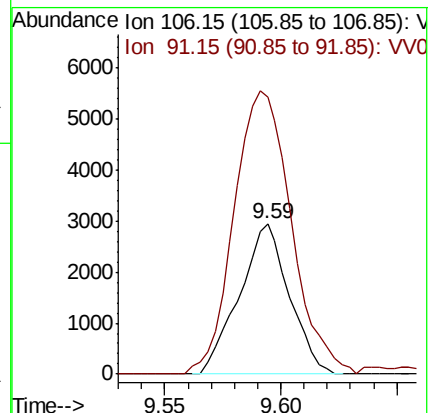
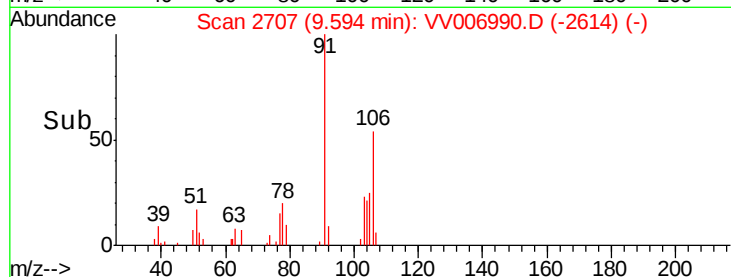
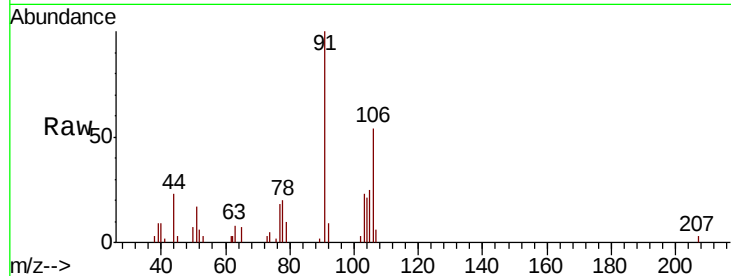
91 184.2 149.8 278.2

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#55

Styrene

Concen: 0.14 ug/L

RT: 9.61 min Scan# 2712

Delta R.T. 0.00 min

Lab File: VV006990.D

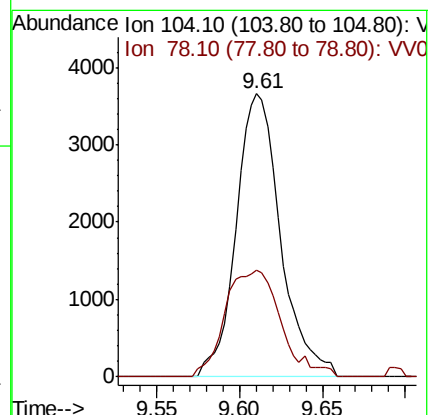
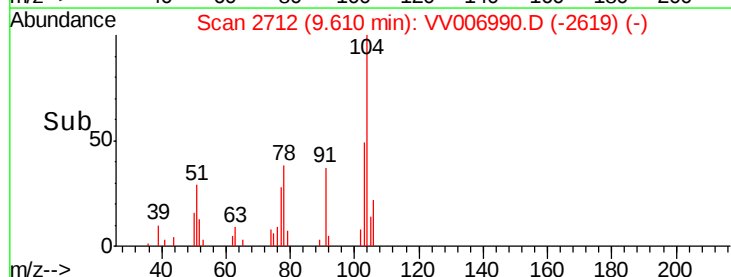
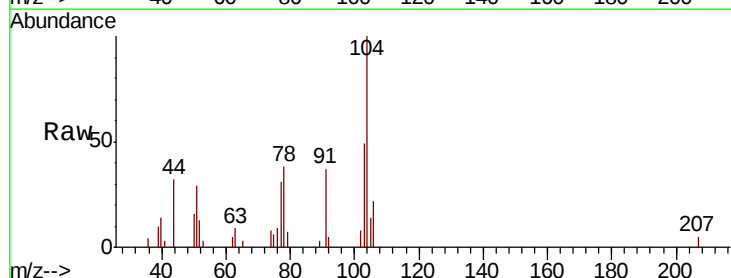
Acq: 10 Aug 2018 18:15

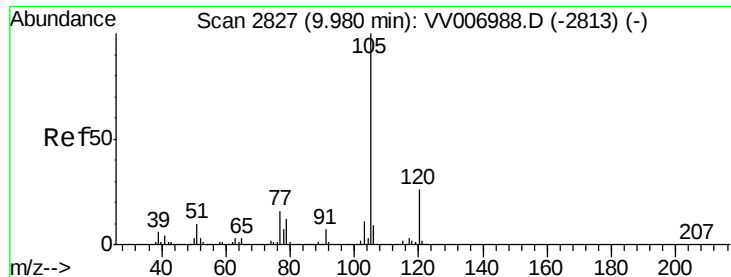
Tgt Ion:104 Resp: 6800

Ion Ratio Lower Upper

104 100

78 37.6 30.4 56.5





#56

Isopropylbenzene

Concen: 0.14 ug/L

RT: 9.98 min Scan# 2828

Delta R.T. 0.00 min

Lab File: VV006990.D

Acq: 10 Aug 2018 18:15

Instrument :

MSVOA_V

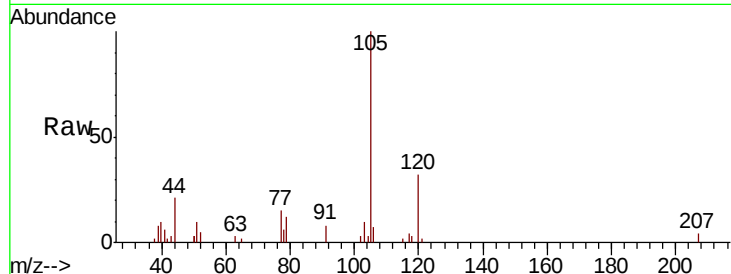
ClientSampleId :

MDL01

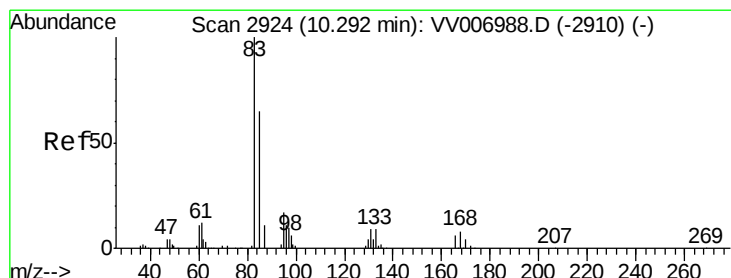
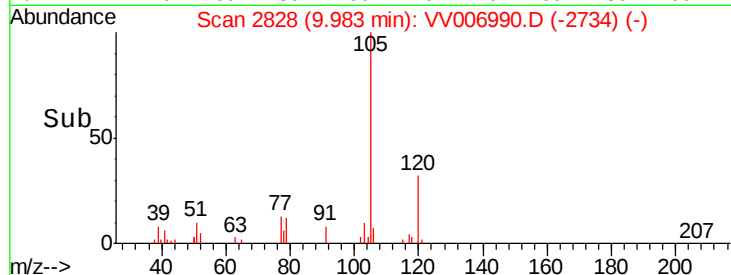
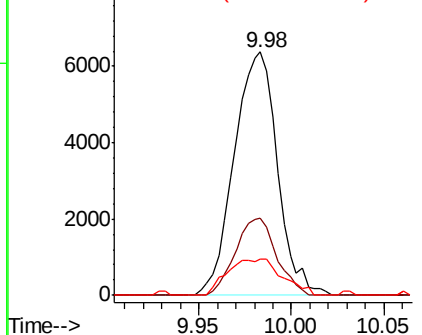
Tot Ion:	105	Resp:	10302
Ion Ratio	Lower	Upper	
105	100		
120	30.1	21.1	31.7
77	18.9	13.0	19.4

Manual Integrations
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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): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.19 ug/L

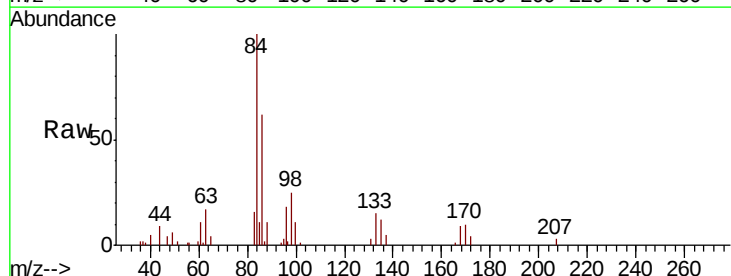
RT: 10.29 min Scan# 2922

Delta R.T. -0.01 min

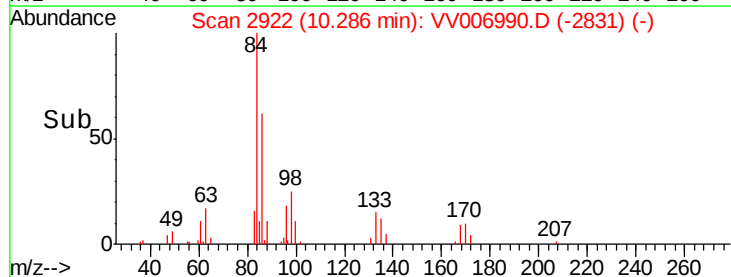
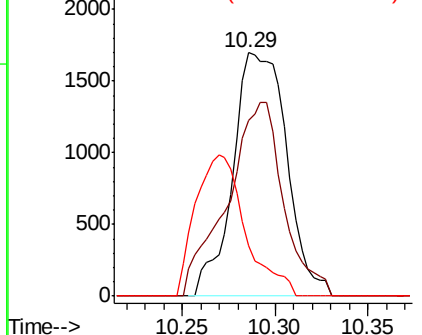
Lab File: VV006990.D

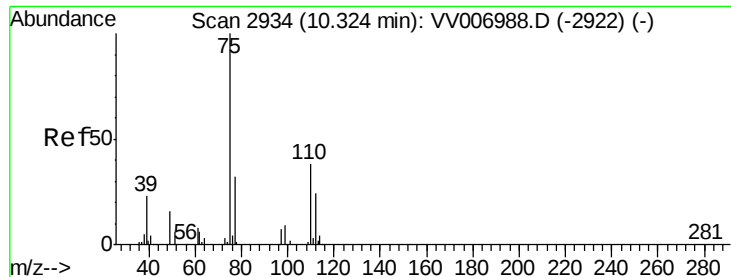
Acq: 10 Aug 2018 18:15

Tgt Ion:	83	Resp:	3447
Ion Ratio	Lower	Upper	
83	100		
85	72.3	43.0	79.8
131	20.7	7.4	11.2#



Abundance Ion 82.95 (82.65 to 83.65): VV0
Ion 85.00 (84.70 to 85.70): VV0
Ion 130.95 (130.65 to 131.65): V





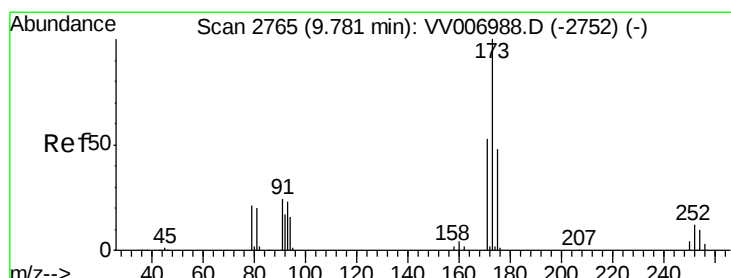
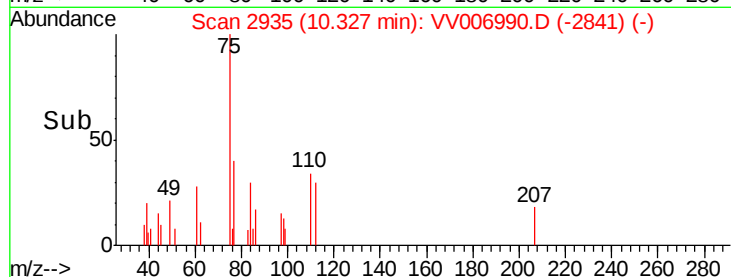
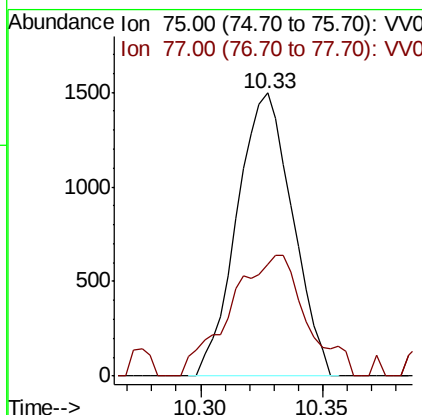
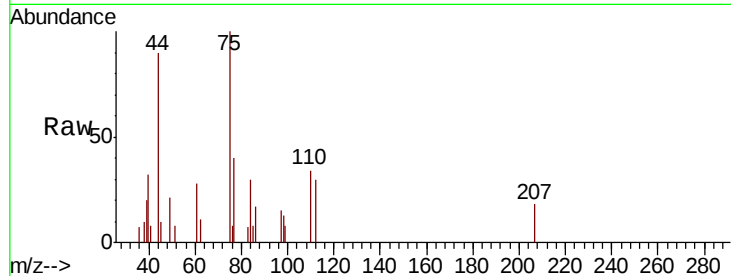
#59
 1,2,3-Trichloropropane
 Concen: 0.18 ug/L
 RT: 10.33 min Scan# 2935
 Delta R.T. 0.00 min
 Lab File: VV006990.D
 Acq: 10 Aug 2018 18:15

Instrument :
 MSVOA_V
 ClientSampled :
 MDL01

Tot Ion: 75 Resp: 2361
 Ion Ratio Lower Upper
 75 100
 77 58.2 25.4 38.0#

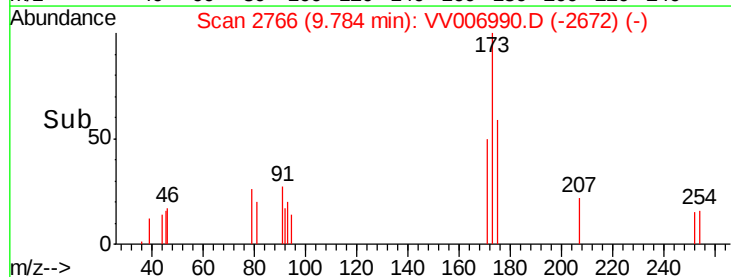
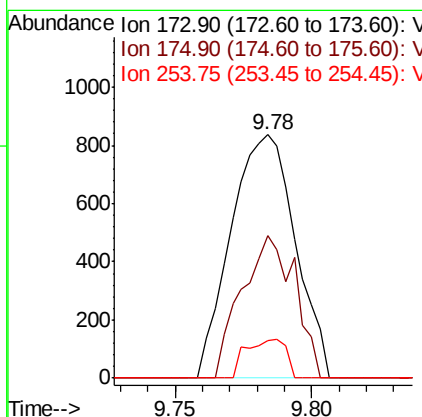
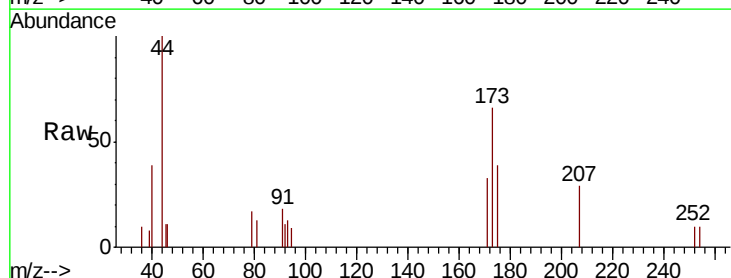
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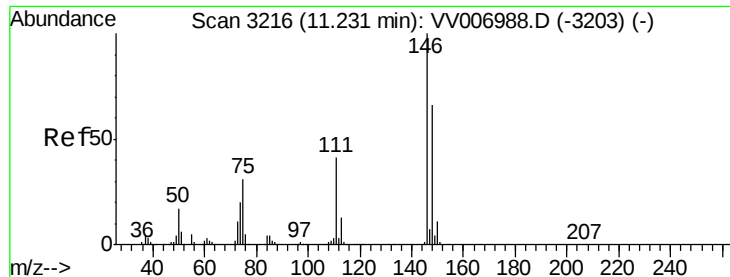
apatel
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#61
 Bromoform
 Concen: 0.18 ug/L
 RT: 9.78 min Scan# 2766
 Delta R.T. 0.00 min
 Lab File: VV006990.D
 Acq: 10 Aug 2018 18:15

Tgt Ion: 173 Resp: 1370
 Ion Ratio Lower Upper
 173 100
 175 48.6 39.3 58.9
 254 9.9 8.3 12.5





#62

1,3-Dichlorobenzene

Concen: 0.20 ug/L

RT: 11.23 min Scan# 3216

Delta R.T. 0.00 min

Lab File: VV006990.D

Acq: 10 Aug 2018 18:15

Instrument :

MSVOA_V

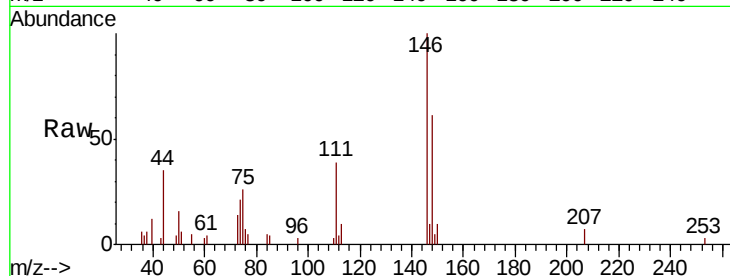
ClientSampled :

MDL01

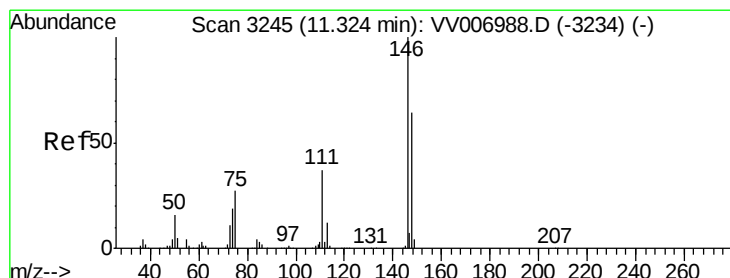
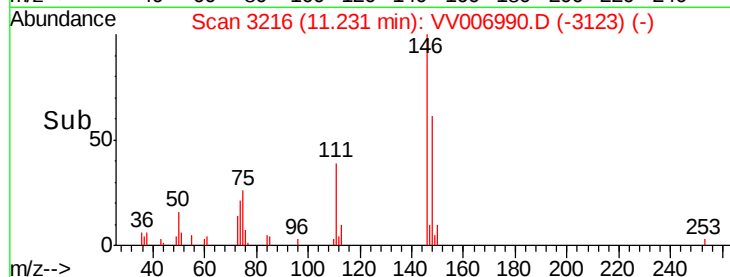
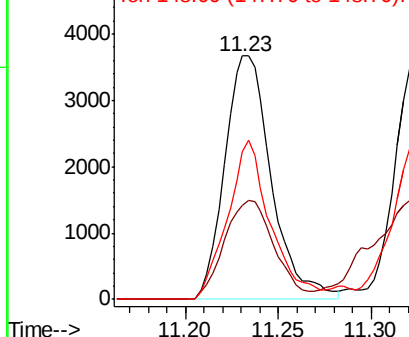
Tot Ion:	146	Resp:	6410
Ion Ratio	Lower	Upper	
146	100		
111	38.8	28.1	52.3
148	60.6	44.2	82.2

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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



#63

1,4-Dichlorobenzene

Concen: 0.19 ug/L

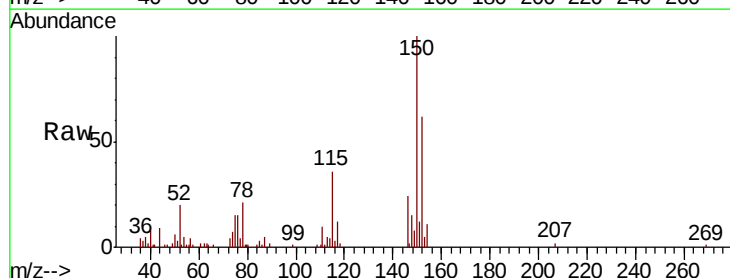
RT: 11.32 min Scan# 3245

Delta R.T. 0.00 min

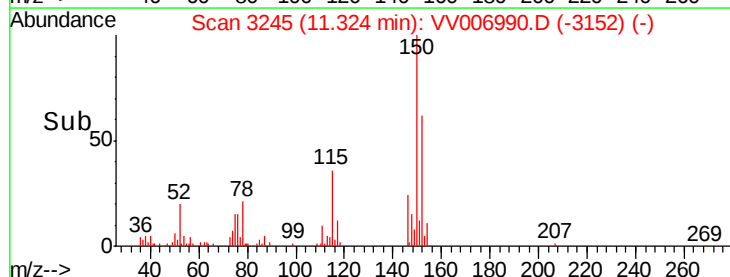
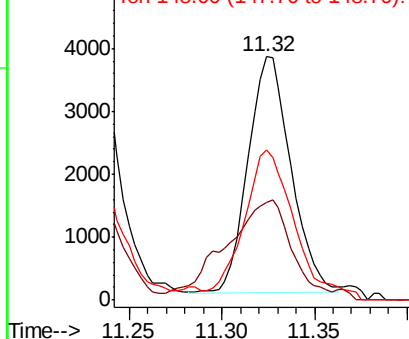
Lab File: VV006990.D

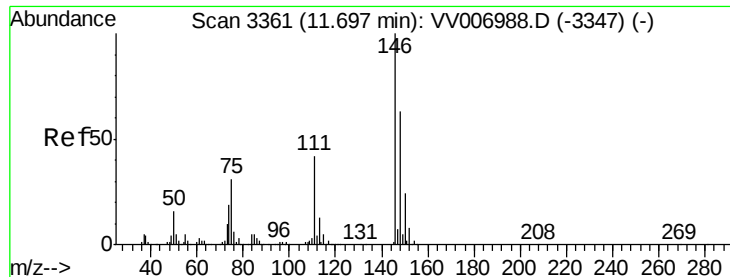
Acq: 10 Aug 2018 18:15

Tgt Ion:	146	Resp:	6068
Ion Ratio	Lower	Upper	
146	100		
111	44.2	26.6	49.4
148	61.7	46.4	86.2



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





#65

1,2-Dichlorobenzene

Concen: 0.20 ug/L

RT: 11.70 min Scan# 3361

Delta R.T. 0.00 min

Lab File: VV006990.D

Acq: 10 Aug 2018 18:15

Instrument :

MSVOA_V

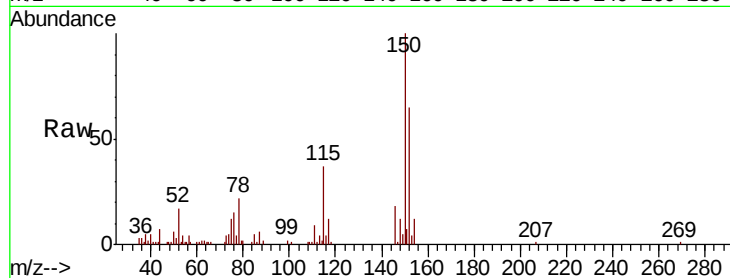
ClientSampled :

MDL01

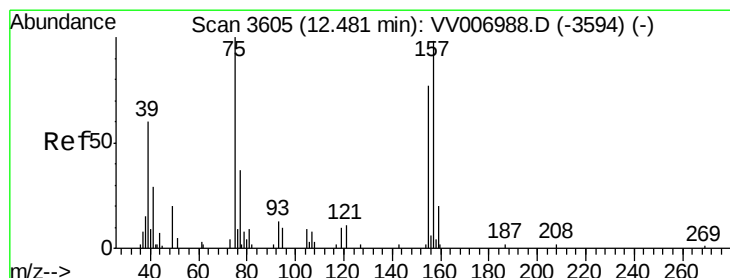
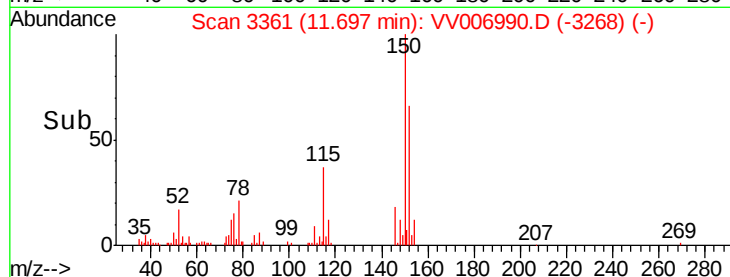
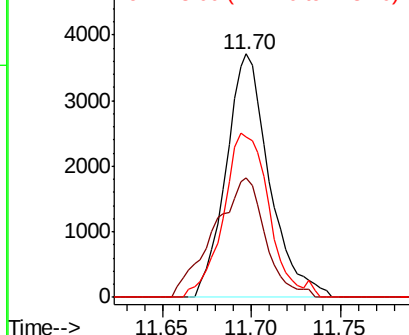
Tot Ion:	146	Resp:	6257
Ion Ratio	Lower	Upper	
146	100		
111	49.0	33.0	49.6
148	66.0	50.6	75.8

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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



#66

1,2-Dibromo-3-chloropropane

Concen: 0.24 ug/L m

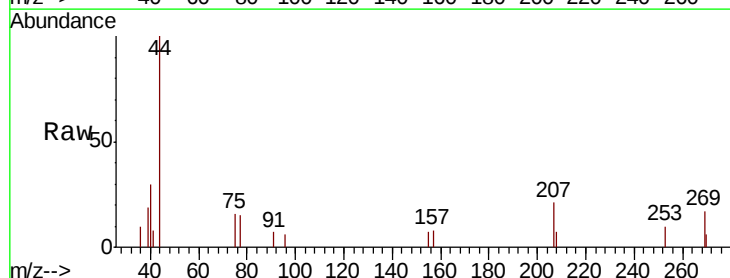
RT: 12.48 min Scan# 3603

Delta R.T. -0.01 min

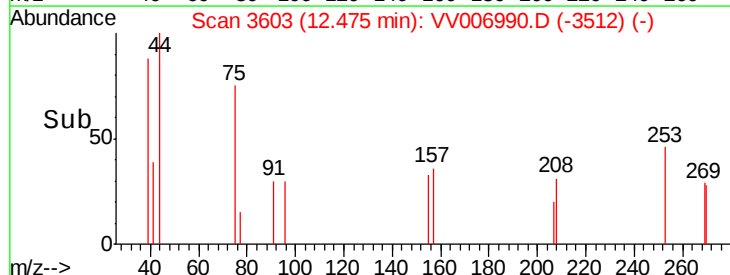
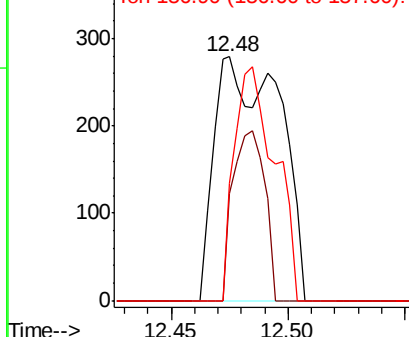
Lab File: VV006990.D

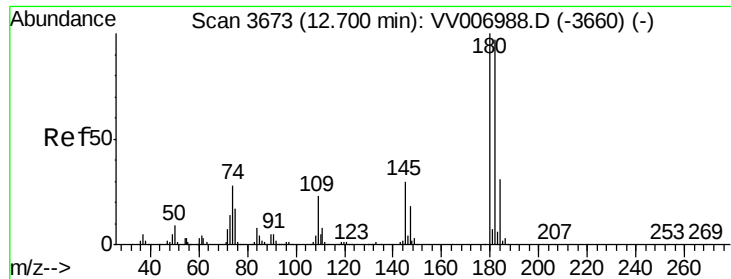
Acq: 10 Aug 2018 18:15

Tgt Ion:	75	Resp:	542
Ion Ratio	Lower	Upper	
75	100		
155	43.7	62.6	94.0#
157	48.4	77.0	115.6#



Abundance Ion 75.05 (74.75 to 75.75): VV0
Ion 154.95 (154.65 to 155.65): V
Ion 156.90 (156.60 to 157.60): V





#67

1,3,5-Trichlorobenzene

Concen: 0.18 ug/L

RT: 12.70 min Scan# 3673

Delta R.T. 0.00 min

Lab File: VV006990.D

Acq: 10 Aug 2018 18:15

Instrument :

MSVOA_V

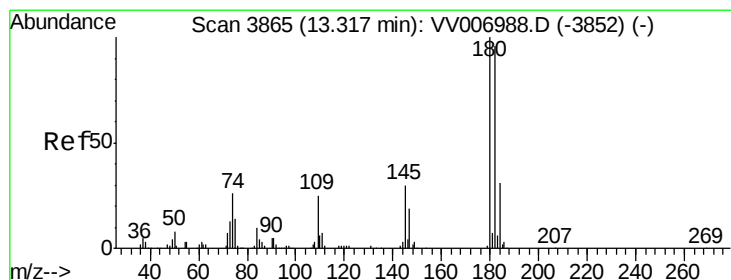
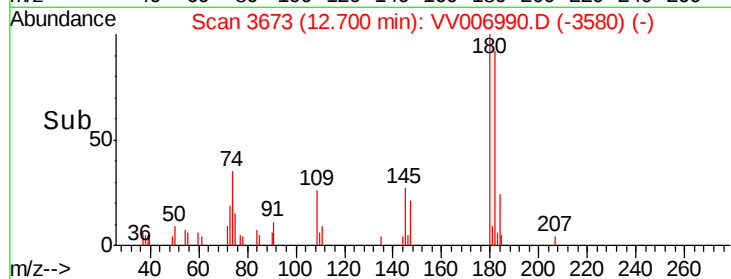
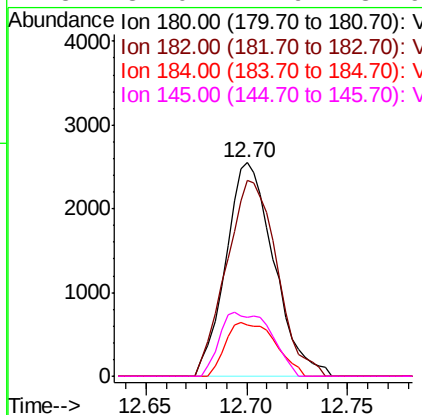
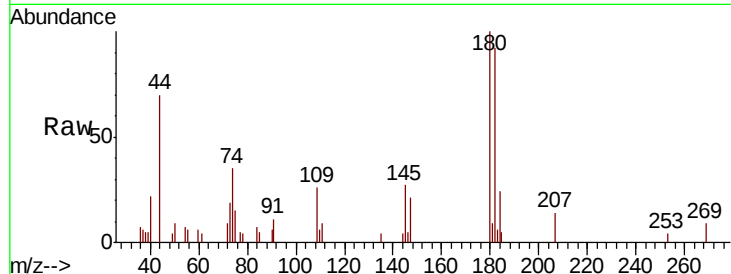
ClientSampleId :

MDL01

Tot Ion:	180	Resp:	4238
Ion Ratio	Lower	Upper	
180	100		
182	96.6	75.1	112.7
184	26.1	23.8	35.8
145	32.0	21.9	32.9

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#68

1,2,4-trichlorobenzene

Concen: 0.16 ug/L

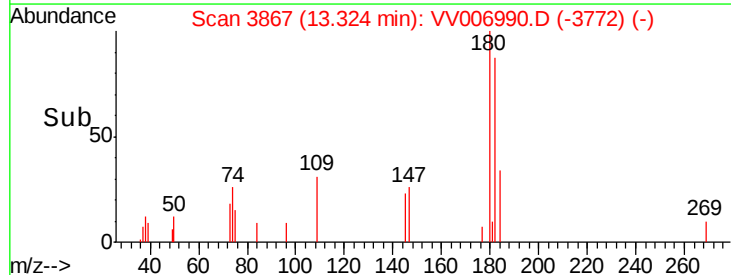
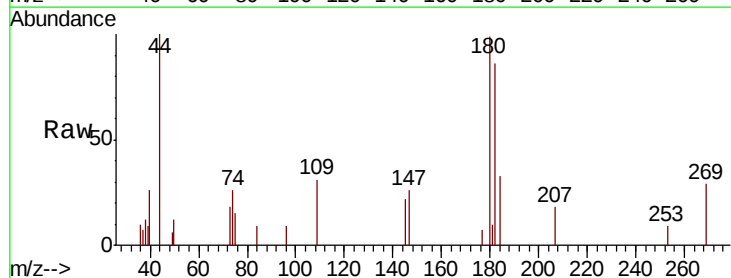
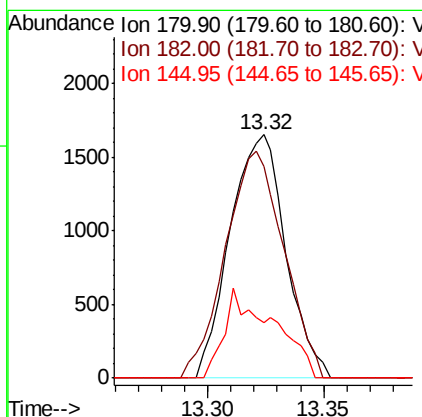
RT: 13.32 min Scan# 3867

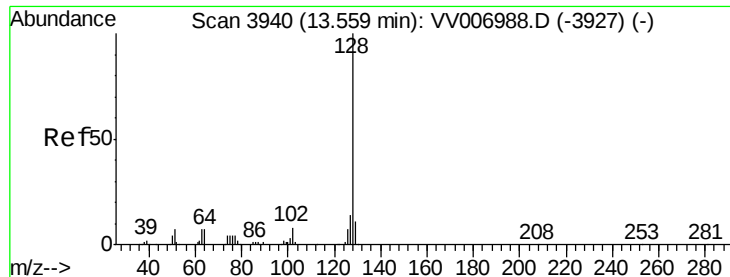
Delta R.T. 0.01 min

Lab File: VV006990.D

Acq: 10 Aug 2018 18:15

Tgt Ion:	180	Resp:	2760
Ion Ratio	Lower	Upper	
180	100		
182	97.9	76.5	114.7
145	32.4	23.6	35.4





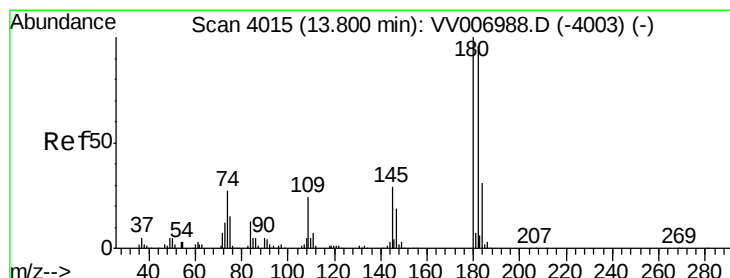
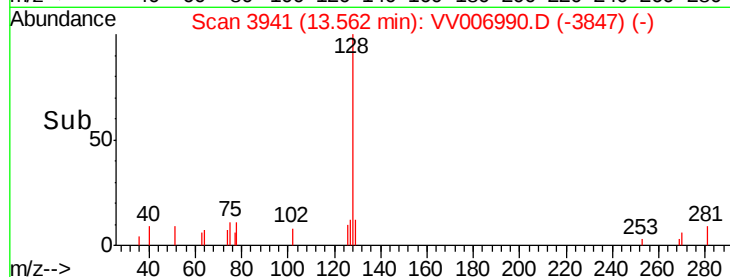
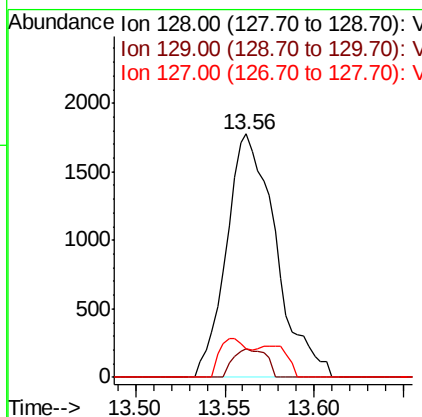
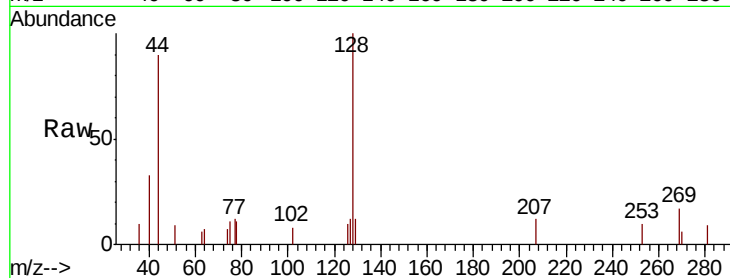
#69
Naphthalene
Concen: 0.13 ug/L
RT: 13.56 min Scan# 3941
Delta R.T. 0.00 min
Lab File: VV006990.D
Acq: 10 Aug 2018 18:15

Instrument :
MSVOA_V
ClientSampleId :
MDL01

Tot Ion	Ratio	Lower	Upper
128	100		
129	7.7	8.5	12.7#
127	9.3	10.6	16.0#

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#70
1,2,3-Trichlorobenzene
Concen: 0.15 ug/L
RT: 13.81 min Scan# 4017
Delta R.T. 0.01 min
Lab File: VV006990.D
Acq: 10 Aug 2018 18:15

Tgt Ion	Ratio	Lower	Upper
180	100		
182	98.5	76.1	114.1
145	30.4	24.6	36.8

