

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081018\
 Data File : VV006992.D
 Acq On : 10 Aug 2018 19:08
 Operator : SY/MD
 Sample : MDL03
 Misc : 25 mL/MSVOA V/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Manual Integrations
 APPROVED

apatel
 8/13/2018 5:34:56 PM

Quant Time: Aug 13 09:07:54 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	236037	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	228634	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	93676	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	65560	4.30	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	86.00%
7) Chloroethane-d5	1.58	69	59865	4.63	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.60%
11) 1,1-Dichloroethene-d2	2.13	63	90483	3.16	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	63.20%
20) 2-Butanone-d5	3.97	46	221557	50.56	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	101.12%
24) Chloroform-d	4.41	84	150382	4.87	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.40%
26) 1,2-Dichloroethane-d4	5.09	65	80083	5.13	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	102.60%
32) Benzene-d6	5.10	84	277386	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.40%
36) 1,2-Dichloropropane-d6	6.12	67	101833	5.07	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	101.40%
41) Toluene-d8	7.37	98	207065	4.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	82.80%
43) trans-1,3-Dichloropropene-	7.67	79	31032	4.44	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	88.80%
46) 2-Hexanone-d5	8.15	63	117877	41.26	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	82.52%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	74662	4.77	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.40%
64) 1,2-Dichlorobenzene-d4	11.68	152	78571	4.82	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	96.40%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	5969	0.26 ug/L	99
3) Chloromethane	1.25	50	5915	0.27 ug/L	100
5) Vinyl chloride	1.32	62	5449	0.24 ug/L #	61
6) Bromomethane	1.53	94	1504	0.30 ug/L	96
8) Chloroethane	1.60	64	3659	0.26 ug/L	97
9) Trichlorofluoromethane	1.77	101	7664	0.26 ug/L	94
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	5060	0.29 ug/L #	88
12) 1,1-Dichloroethene	2.14	96	5145	0.30 ug/L #	1
13) Acetone	2.21	43	7436	3.30 ug/L	98
14) Carbon disulfide	2.32	76	13780	0.25 ug/L #	89
15) Methyl Acetate	2.47	43	2122	0.33 ug/L	95
16) Methylene chloride	2.54	84	7228	0.35 ug/L	88
17) Methyl tert-butyl Ether	2.82	73	10369	0.26 ug/L #	95
18) trans-1,2-Dichloroethene	2.79	96	4849	0.27 ug/L	96
19) 1,1-Dichloroethane	3.23	63	8161	0.25 ug/L	96
21) 2-Butanone	4.06	43	11861	2.42 ug/L	100
22) cis-1,2-Dichloroethene	3.96	96	5153	0.25 ug/L	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.31	128	1934	0.23	ug/L	82
25) Chloroform	4.43	83	9879	0.28	ug/L	97
27) 1,2-Dichloroethane	5.19	62	6237	0.28	ug/L	97
29) 1,1,1-Trichloroethane	4.66	97	7394	0.24	ug/L	97
30) Cyclohexane	4.72	56	6234	0.20	ug/L #	93
31) Carbon tetrachloride	4.87	117	6070	0.24	ug/L	95
33) Benzene	5.15	78	19088	0.24	ug/L	100
34) Trichloroethene	5.96	95	4346	0.23	ug/L	79
35) Methylcyclohexane	6.18	83	6449	0.21	ug/L	97
37) 1,2-Dichloropropane	6.23	63	5339	0.25	ug/L #	94
38) Bromodichloromethane	6.57	83	5582	0.23	ug/L	96
39) cis-1,3-Dichloropropene	7.08	75	5041	0.19	ug/L	90
40) 4-Methyl-2-pentanone	7.29	43	21227	1.81	ug/L #	87
42) Toluene	7.44	91	16269	0.21	ug/L	92
44) trans-1,3-Dichloropropene	7.70	75	4729m	0.22	ug/L	
45) 1,1,2-Trichloroethane	7.89	97	3085	0.22	ug/L #	89
47) Tetrachloroethene	8.03	164	3942	0.26	ug/L	96
48) 2-Hexanone	8.20	43	31883	3.86	ug/L	94
49) Dibromochloromethane	8.30	129	3731	0.25	ug/L	95
50) 1,2-Dibromoethane	8.40	107	2950	0.25	ug/L #	99
51) Chlorobenzene	8.93	112	11375	0.23	ug/L	99
52) Ethylbenzene	9.06	91	15921	0.21	ug/L	99
53) m,p-xylene	9.19	106	5593	0.20	ug/L	88
54) o-xylene	9.59	106	5697	0.21	ug/L	90
55) Styrene	9.61	104	7917	0.17	ug/L	97
56) Isopropylbenzene	9.98	105	12989	0.18	ug/L #	95
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	3727	0.22	ug/L #	71
59) 1,2,3-Trichloropropane	10.33	75	3091	0.25	ug/L #	86
61) Bromoform	9.78	173	1980	0.28	ug/L #	88
62) 1,3-Dichlorobenzene	11.24	146	7146	0.24	ug/L	93
63) 1,4-Dichlorobenzene	11.32	146	7780	0.25	ug/L	88
65) 1,2-Dichlorobenzene	11.70	146	7415	0.25	ug/L	96
66) 1,2-Dibromo-3-chloropropan	12.48	75	498	0.24	ug/L	96
67) 1,3,5-Trichlorobenzene	12.70	180	5534	0.24	ug/L	93
68) 1,2,4-trichlorobenzene	13.32	180	2936	0.17	ug/L #	84
69) Naphthalene	13.57	128	3541	0.15	ug/L #	92
70) 1,2,3-Trichlorobenzene	13.80	180	2850	0.18	ug/L	94

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

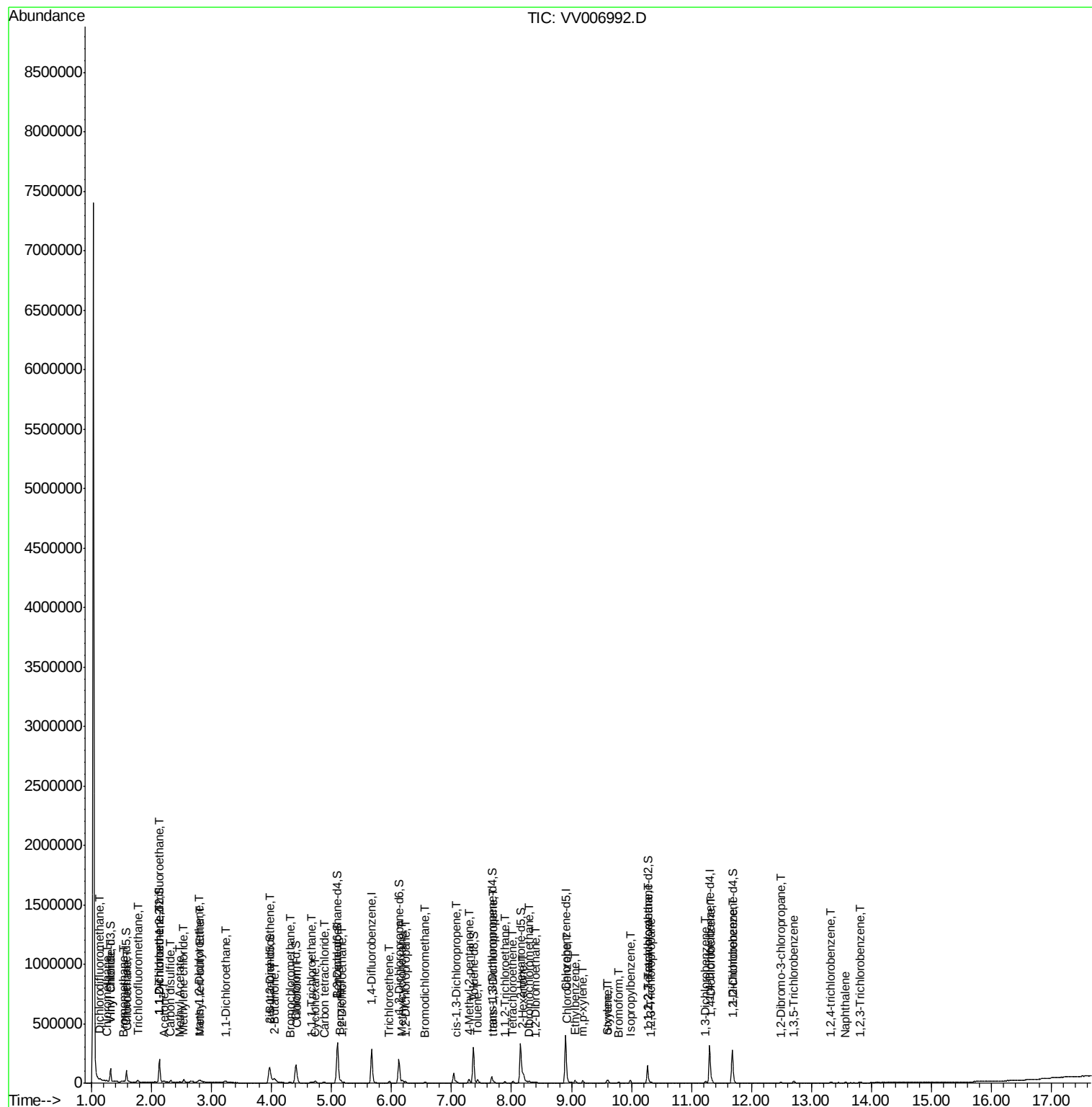
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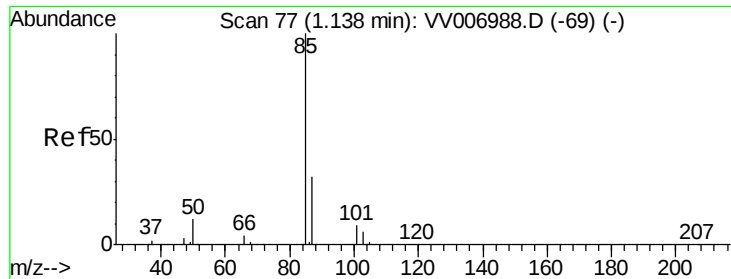
Instrument :
MSVOA_V
ClientSampleId :
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#2

Dichlorodifluoromethane

Concen: 0.26 ug/L

RT: 1.14 min Scan# 77

Delta R.T. -0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 85 Resp: 5969

Ion Ratio Lower Upper

85 100

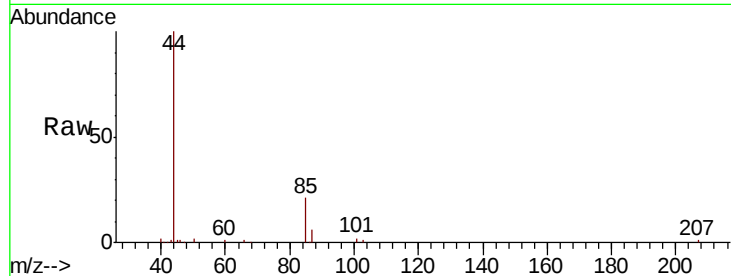
87 31.0 25.4 38.2

Manual Integrations

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Abundance Ion 85.00 (84.70 to 85.70): VV006988.D (-69) (-)

Ion 87.00 (86.70 to 87.70): VV006988.D (-69) (-)

1.14

6000

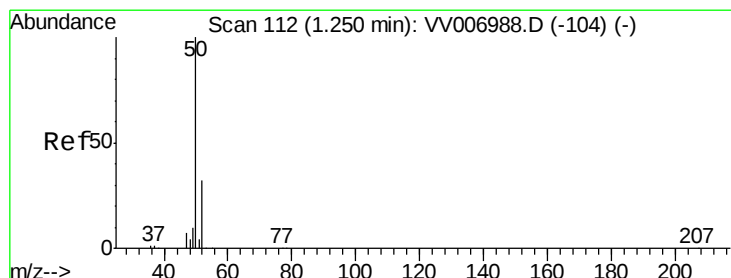
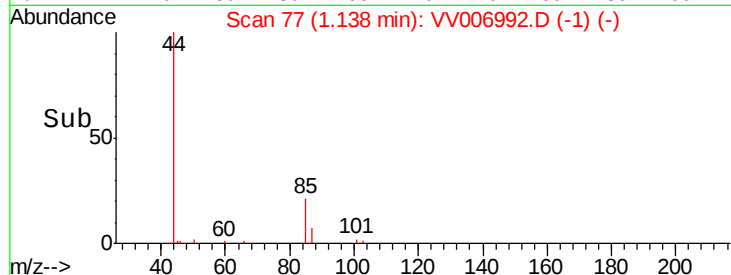
4000

2000

0

1.10 1.12 1.14 1.16 1.18

Time-->



#3

Chloromethane

Concen: 0.27 ug/L

RT: 1.25 min Scan# 113

Delta R.T. 0.00 min

Lab File: VV006992.D

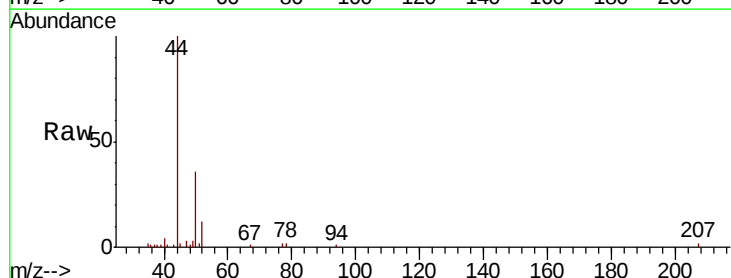
Acq: 10 Aug 2018 19:08

Tgt Ion: 50 Resp: 5915

Ion Ratio Lower Upper

50 100

52 33.8 23.6 43.8



Abundance Ion 50.05 (49.75 to 50.75): VV006988.D (-104) (-)

Ion 52.05 (51.75 to 52.75): VV006988.D (-104) (-)

1.25

6000

5000

4000

3000

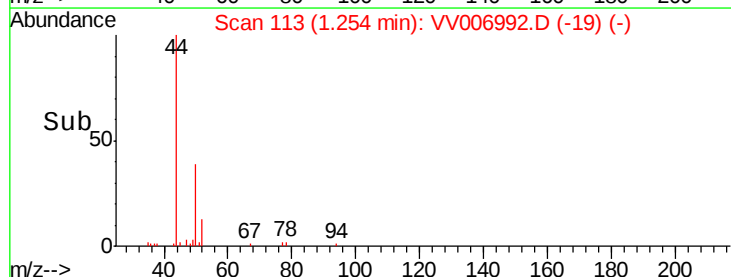
2000

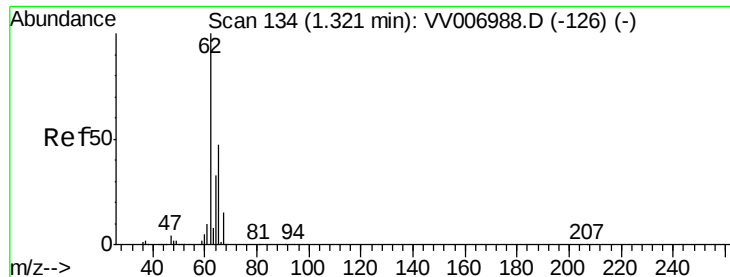
1000

0

1.20 1.25 1.30

Time-->





#5

Vinyl chloride

Concen: 0.24 ug/L

RT: 1.32 min Scan# 134

Delta R.T. -0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion: 62 Resp: 5449

Ion Ratio Lower Upper

62 100

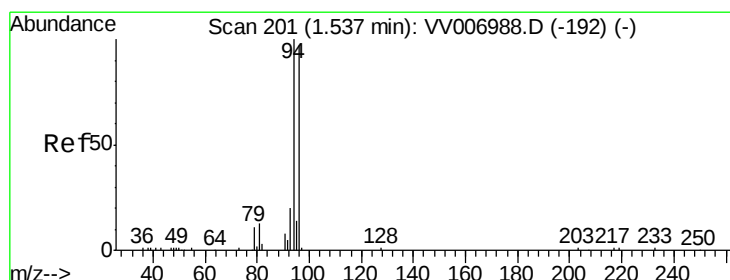
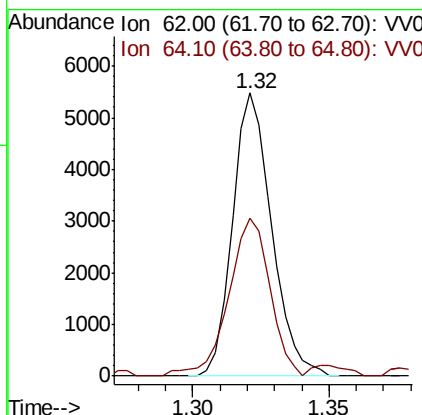
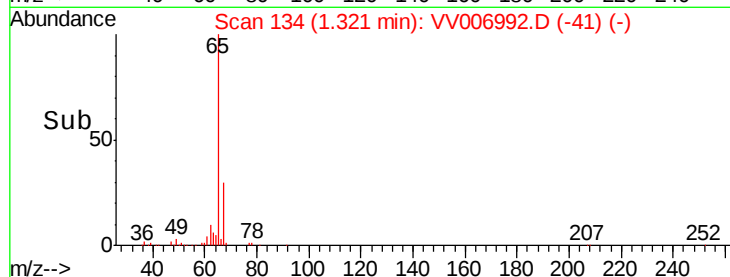
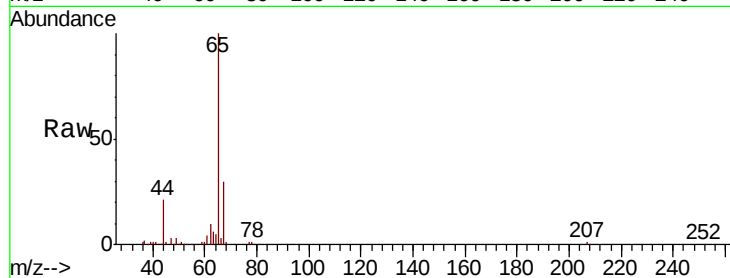
64 55.9 23.5 43.7#

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#6

Bromomethane

Concen: 0.30 ug/L

RT: 1.53 min Scan# 200

Delta R.T. -0.00 min

Lab File: VV006992.D

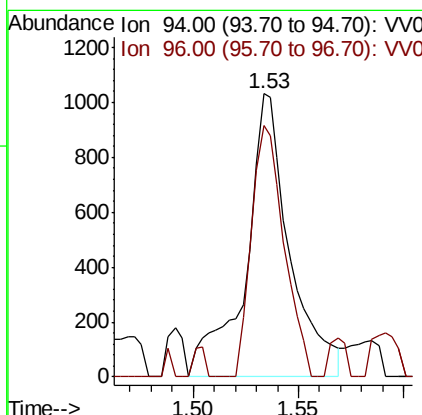
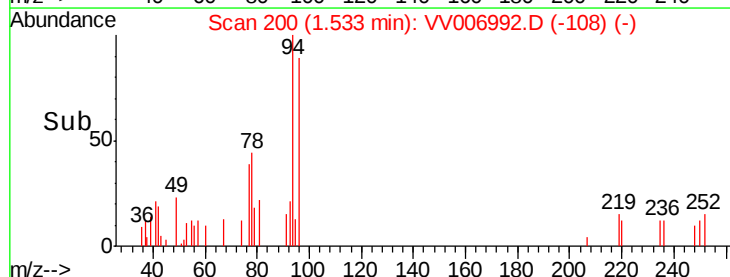
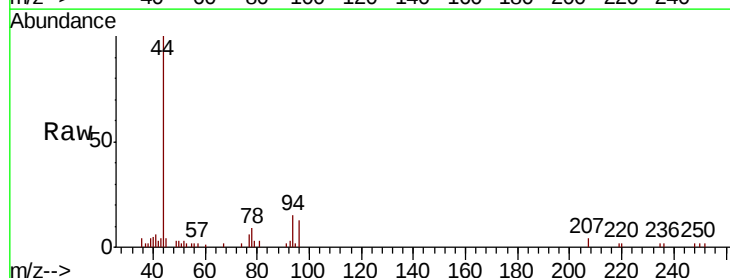
Acq: 10 Aug 2018 19:08

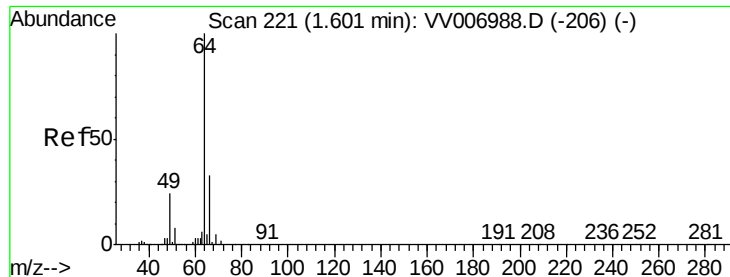
Tgt Ion: 94 Resp: 1504

Ion Ratio Lower Upper

94 100

96 88.6 65.0 120.6





#8

Chloroethane

Concen: 0.26 ug/L

RT: 1.60 min Scan# 221

Delta R.T. -0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 64 Resp: 3659

Ion Ratio Lower Upper

64 100

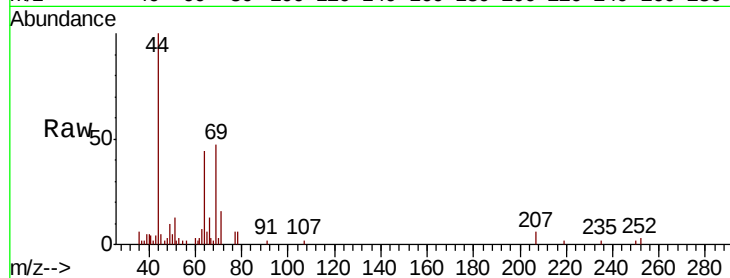
66 30.4 22.6 42.0

Manual Integrations

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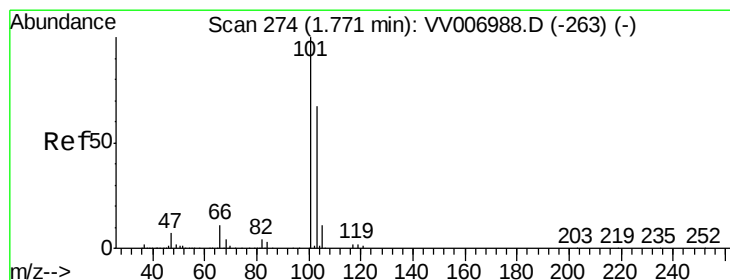
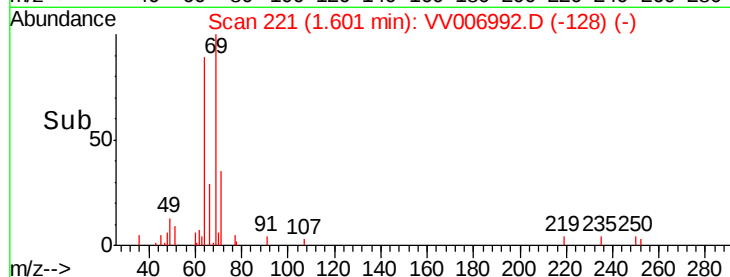
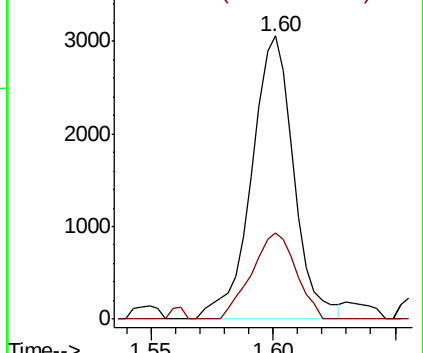
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Abundance Ion 64.10 (63.80 to 64.80): VV006988.D (-206) (-)

Ion 66.05 (65.75 to 66.75): VV006992.D (-128) (-)



#9

Trichlorofluoromethane

Concen: 0.26 ug/L

RT: 1.77 min Scan# 274

Delta R.T. -0.00 min

Lab File: VV006992.D

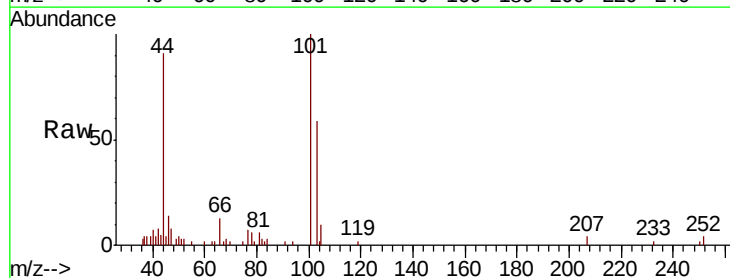
Acq: 10 Aug 2018 19:08

Tgt Ion: 101 Resp: 7664

Ion Ratio Lower Upper

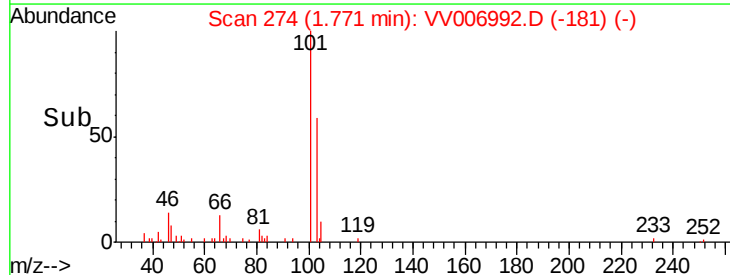
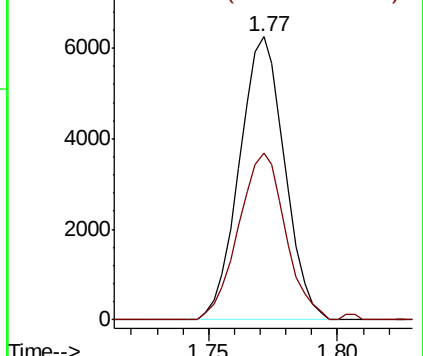
101 100

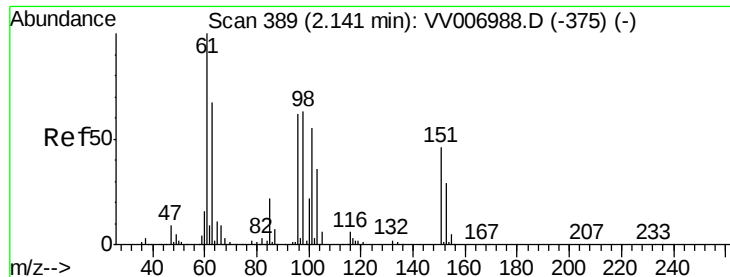
103 61.3 52.7 79.1



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

Ion 103.00 (102.70 to 103.70): VV006992.D (-181) (-)





#10

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

Concen: 0.29 ug/L

RT: 2.14 min Scan# 389

Delta R.T. -0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

Instrument :

MSVOA_V

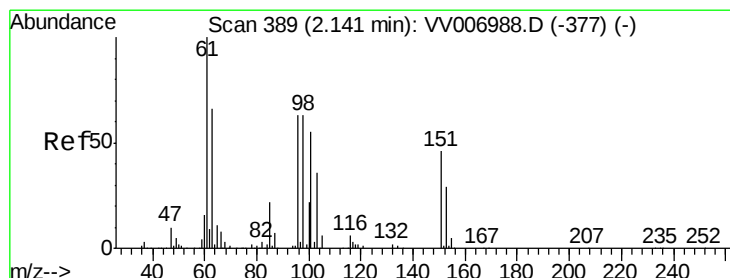
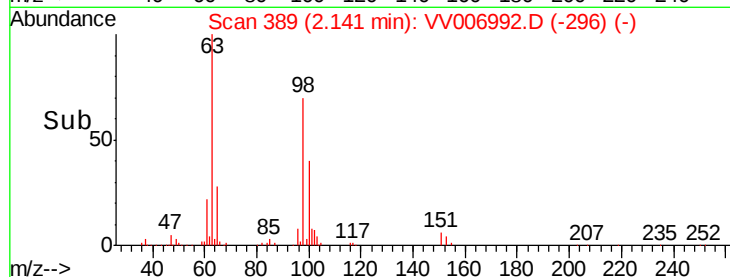
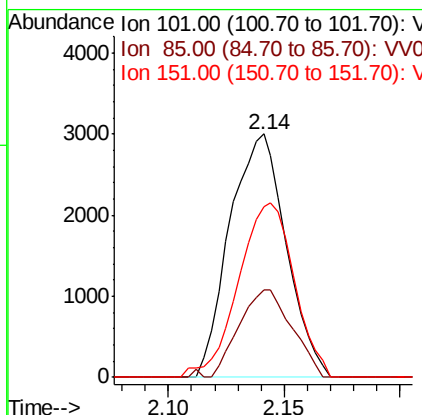
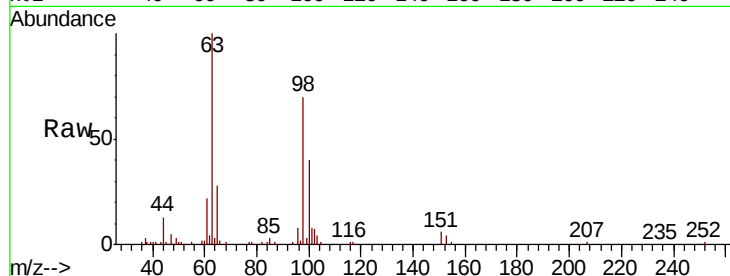
ClientSampleId :

MDL03

Tot Ion:	101	Resp:	5060
Ion Ratio	Lower	Upper	
101	100		
85	33.6	33.9	50.9#
151	70.8	64.1	96.1

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#12

1,1-Dichloroethene

Concen: 0.30 ug/L

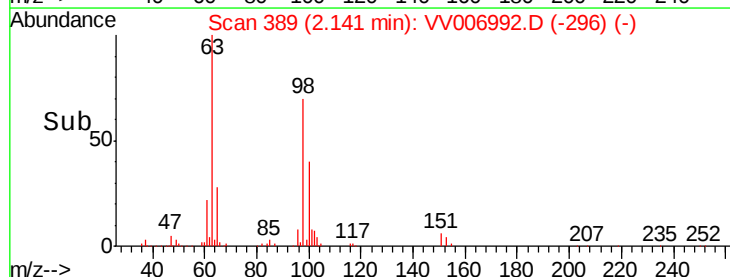
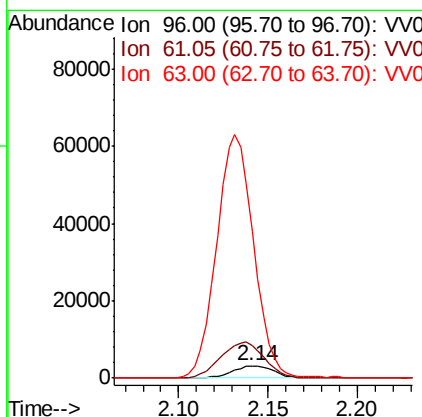
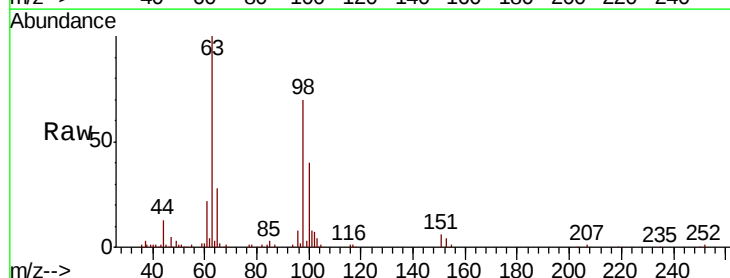
RT: 2.14 min Scan# 389

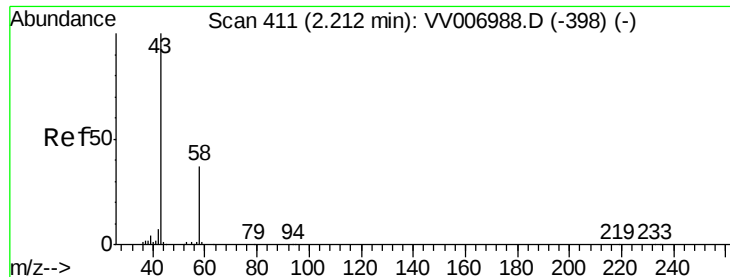
Delta R.T. -0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

Tgt Ion:	96	Resp:	5145
Ion Ratio	Lower	Upper	
96	100		
61	273.7	111.6	207.4#
63	1230.3	84.9	157.7#





#13

Acetone

Concen: 3.30 ug/L

RT: 2.21 min Scan# 409

Delta R.T. -0.01 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

Instrument :

MSVOA_V

ClientSampleId :

MDL03

Tot Ion: 43 Resp: 7436

Ion Ratio Lower Upper

43 100

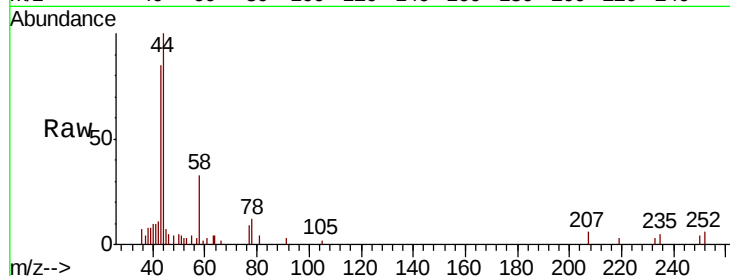
58 34.3 0.0 71.4

Manual Integrations

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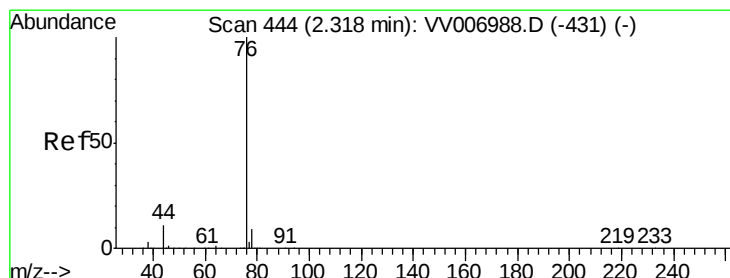
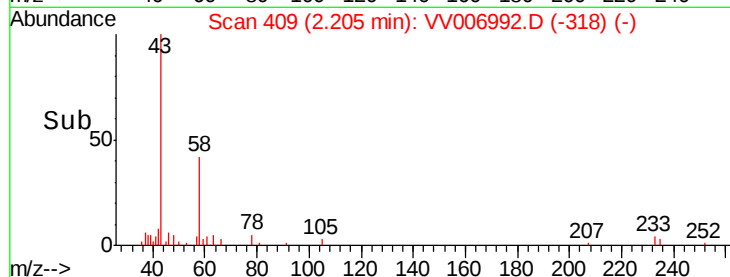
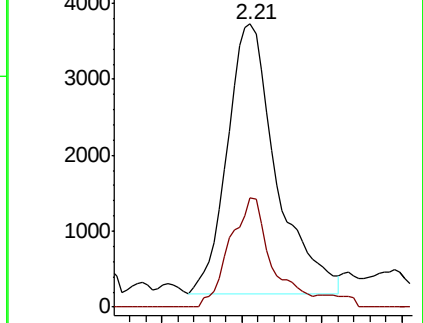
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Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0



#14

Carbon disulfide

Concen: 0.25 ug/L

RT: 2.32 min Scan# 444

Delta R.T. -0.00 min

Lab File: VV006992.D

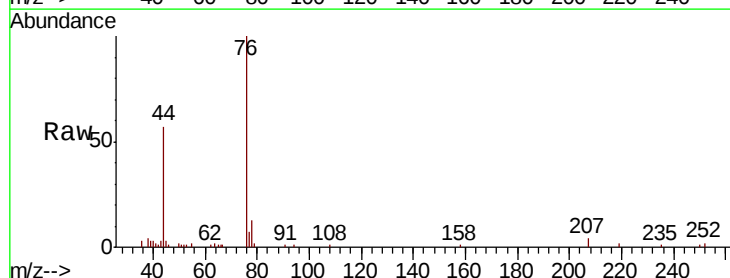
Acq: 10 Aug 2018 19:08

Tgt Ion: 76 Resp: 13780

Ion Ratio Lower Upper

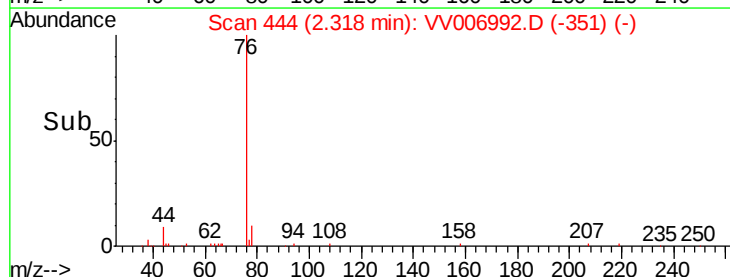
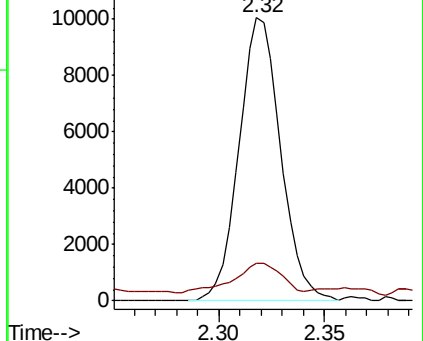
76 100

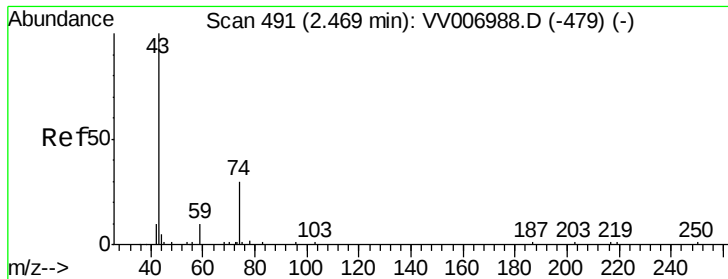
78 13.4 7.6 11.4#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0





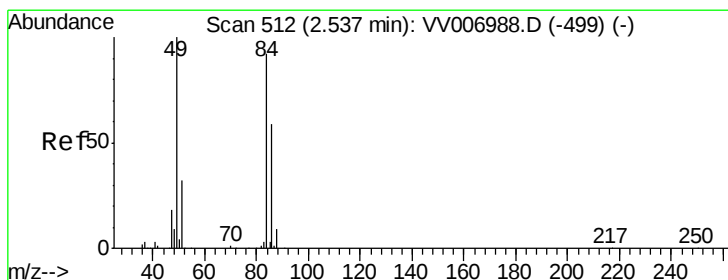
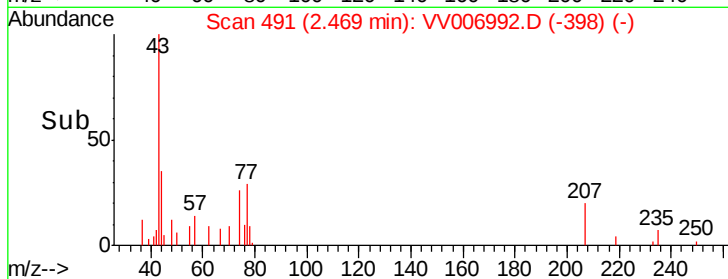
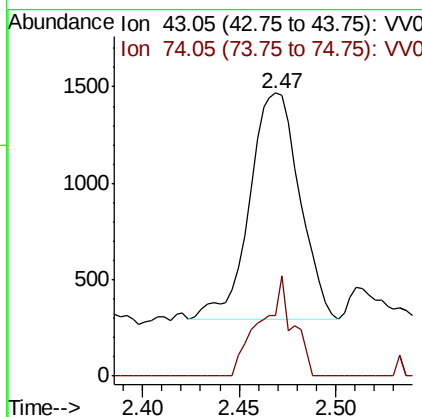
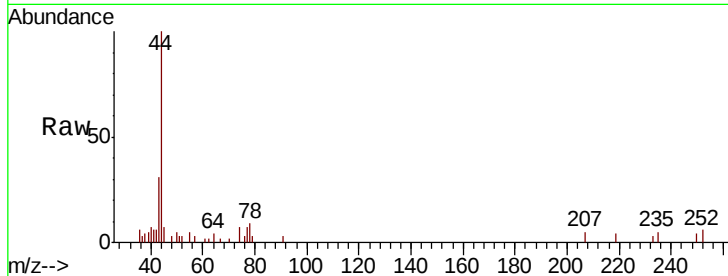
#15
Methvl Acetate
Concen: 0.33 ug/L
RT: 2.47 min Scan# 491
Delta R.T. -0.00 min
Lab File: VV006992.D
Acq: 10 Aug 2018 19:08

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion: 43 Resp: 2122
Ion Ratio Lower Upper
43 100
74 28.3 24.6 37.0

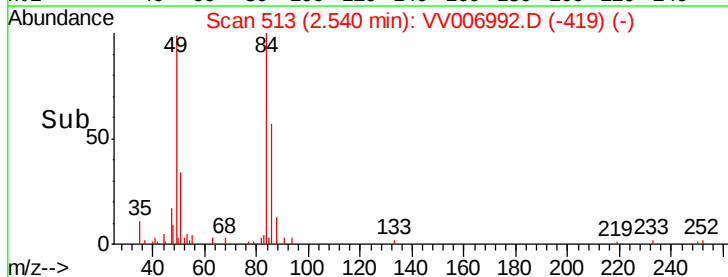
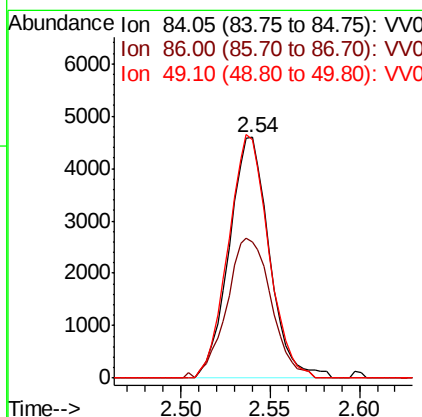
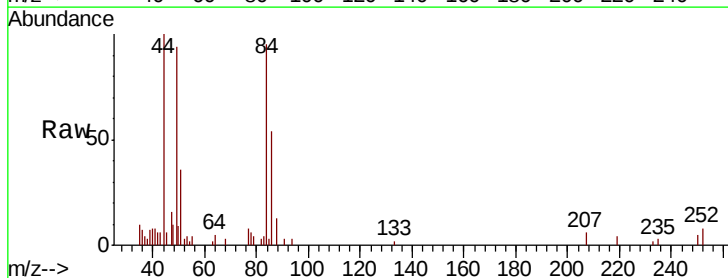
Manual Integrations
APPROVED

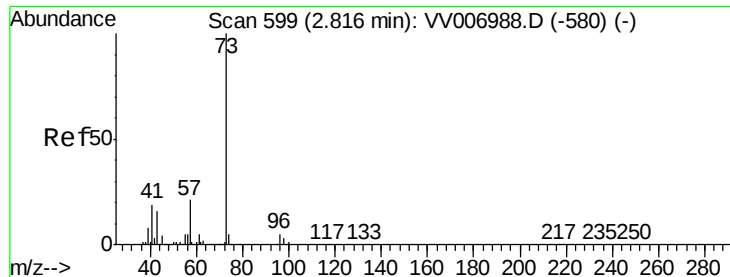
apatel
8/13/2018 5:34:56 PM



#16
Methylene chloride
Concen: 0.35 ug/L
RT: 2.54 min Scan# 513
Delta R.T. 0.00 min
Lab File: VV006992.D
Acq: 10 Aug 2018 19:08

Tgt Ion: 84 Resp: 7228
Ion Ratio Lower Upper
84 100
86 56.6 45.7 84.9
49 99.1 78.8 146.4





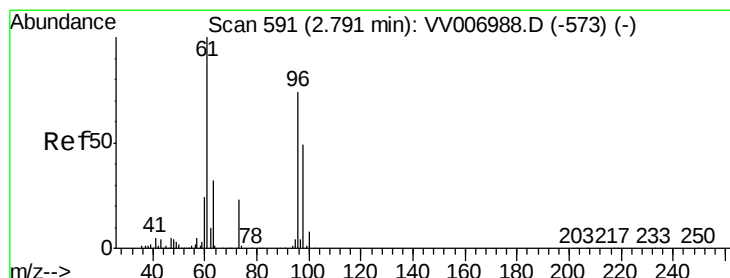
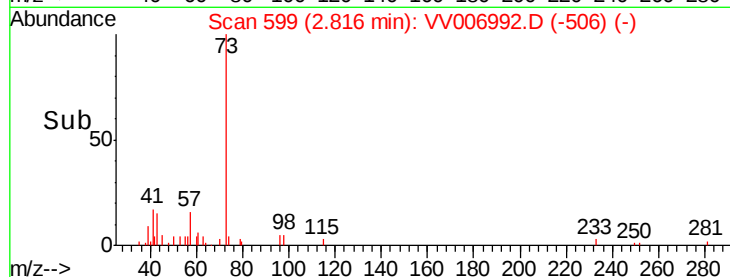
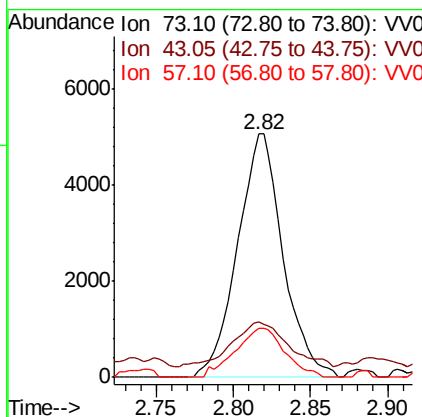
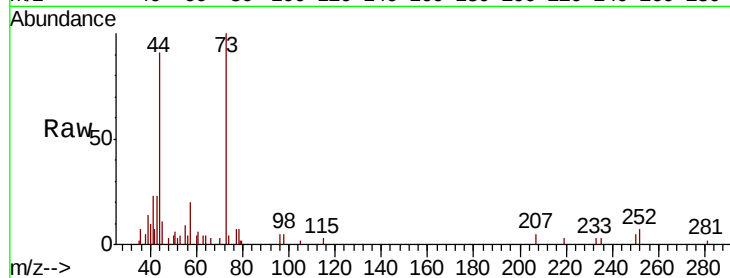
#17
Methvl tert-butvl Ether
Concen: 0.26 ug/L
RT: 2.82 min Scan# 599
Delta R.T. -0.00 min
Lab File: VV006992.D
Acq: 10 Aug 2018 19:08

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
73	100		
43	22.4	14.4	21.6#
57	22.0	17.9	26.9

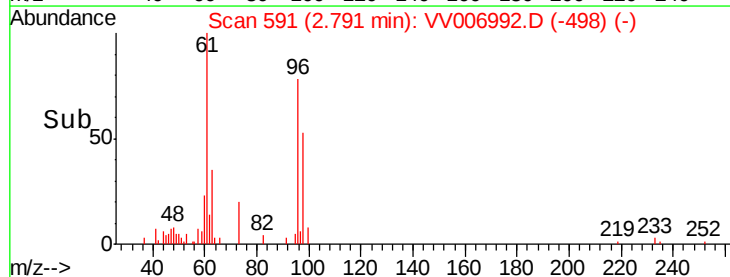
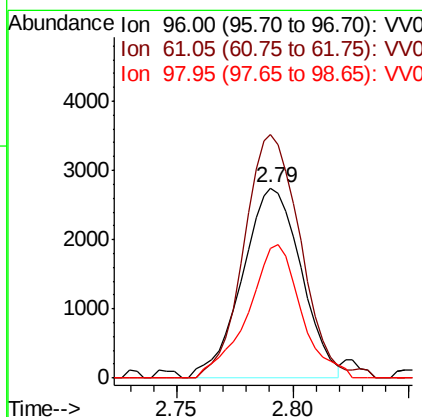
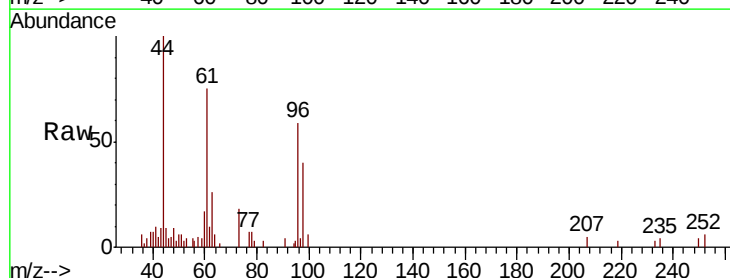
Manual Integrations
APPROVED

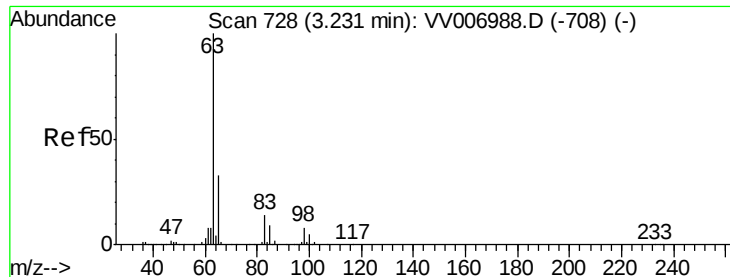
apatel
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#18
trans-1,2-Dichloroethene
Concen: 0.27 ug/L
RT: 2.79 min Scan# 591
Delta R.T. -0.00 min
Lab File: VV006992.D
Acq: 10 Aug 2018 19:08

Tgt Ion	Ratio	Lower	Upper
96	100		
61	127.8	91.1	169.3
98	68.1	43.5	80.9





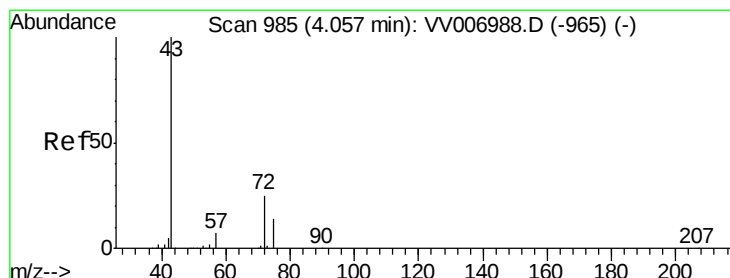
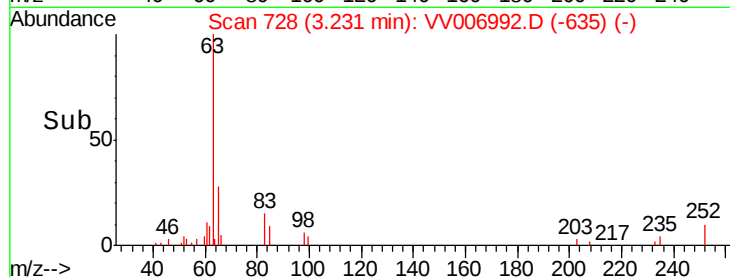
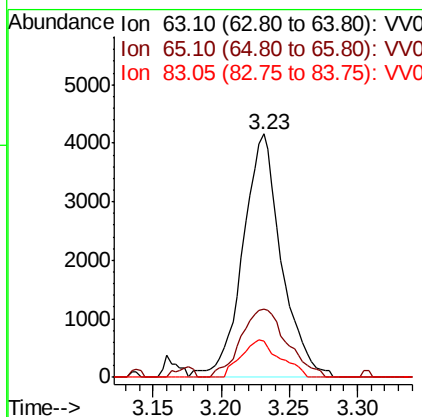
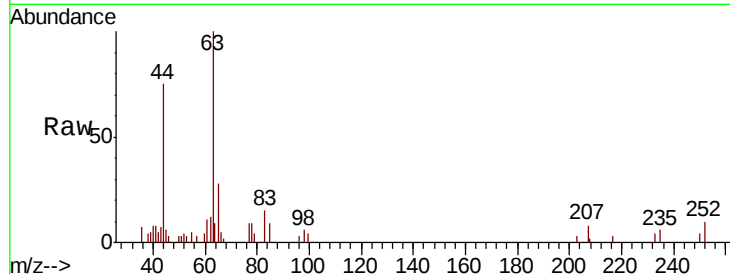
#19
 1,1-Dichloroethane
 Concen: 0.25 ug/L
 RT: 3.23 min Scan# 728
 Delta R.T. -0.00 min
 Lab File: VV006992.D
 Acq: 10 Aug 2018 19:08

Instrument :
 MSVOA_V
 ClientSampled :
 MDL03

Tot Ion	Ratio	Lower	Upper
63	100		
65	28.1	21.7	40.3
83	14.9	10.0	18.6

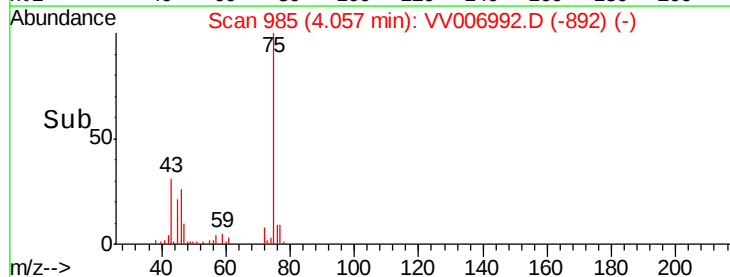
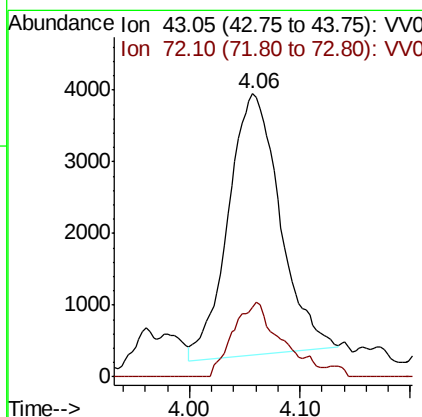
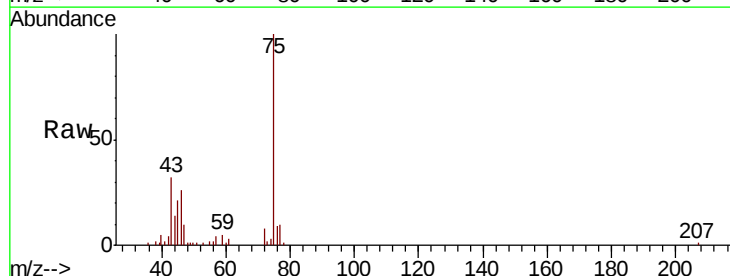
Manual Integrations
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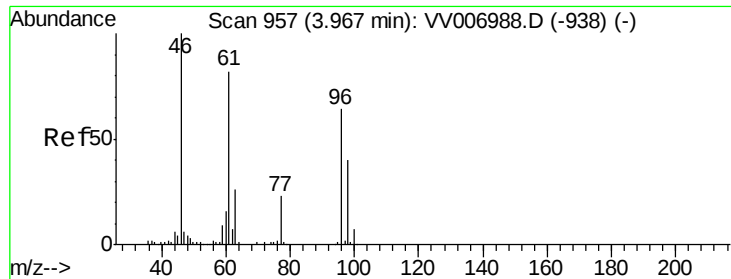
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#21
 2-Butanone
 Concen: 2.42 ug/L
 RT: 4.06 min Scan# 985
 Delta R.T. -0.00 min
 Lab File: VV006992.D
 Acq: 10 Aug 2018 19:08

Tgt Ion	Ratio	Lower	Upper
43	100		
72	24.8	12.4	37.2





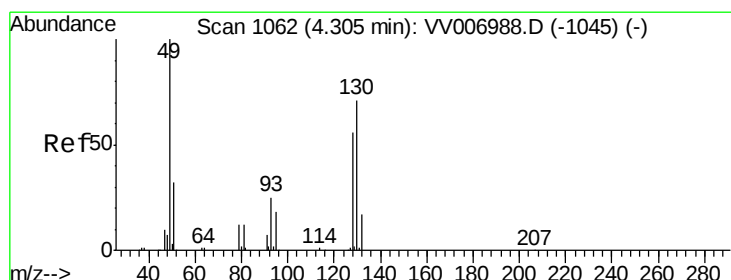
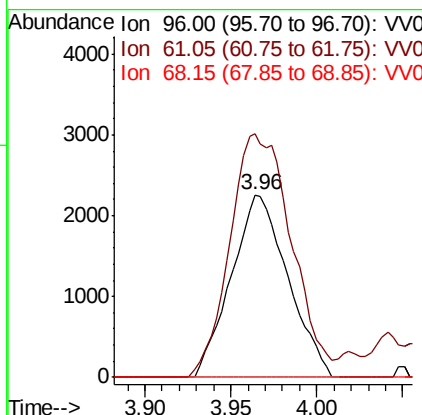
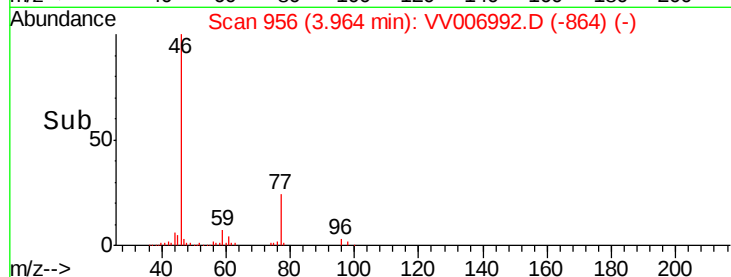
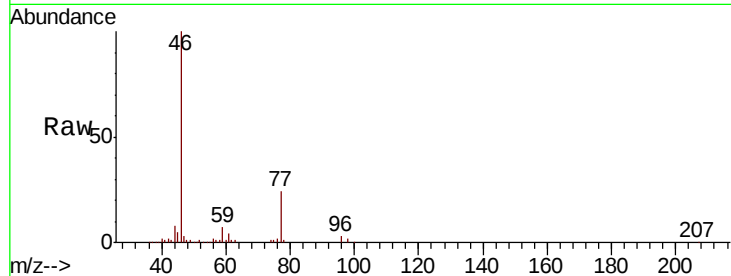
#22
 cis-1,2-Dichloroethene
 Concen: 0.25 ug/L
 RT: 3.96 min Scan# 956
 Delta R.T. -0.00 min
 Lab File: VV006992.D
 Acq: 10 Aug 2018 19:08

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL03

Tot Ion	Ratio	Lower	Upper
96	100		
61	133.3	91.1	169.1
68	0.0	0.0	0.0

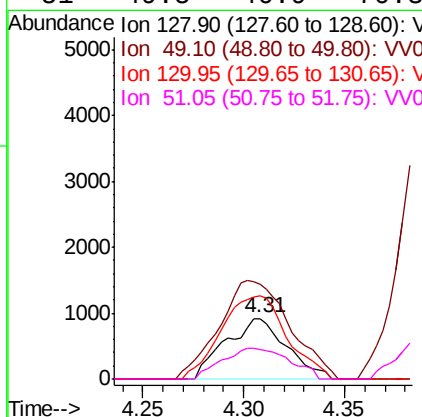
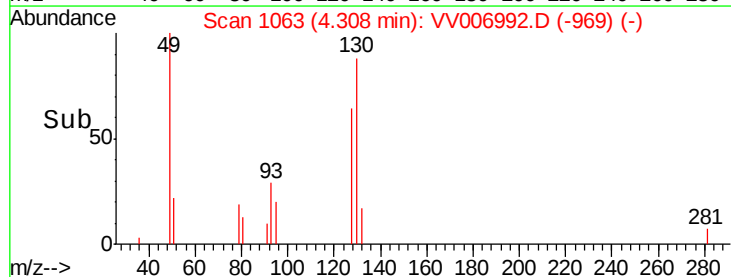
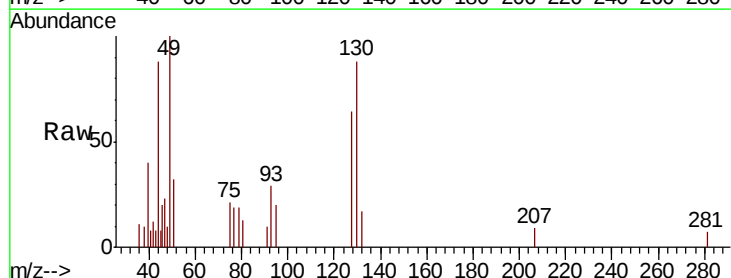
Manual Integrations
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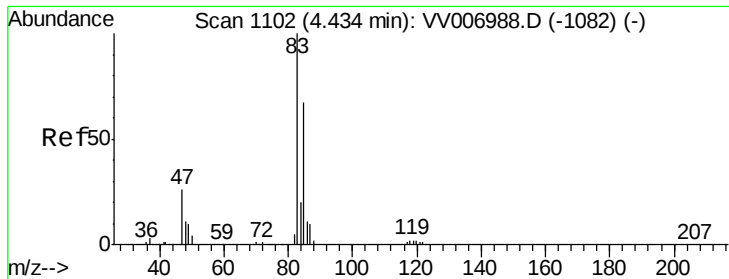
apatel
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#23
 Bromochloromethane
 Concen: 0.23 ug/L
 RT: 4.31 min Scan# 1063
 Delta R.T. 0.00 min
 Lab File: VV006992.D
 Acq: 10 Aug 2018 19:08

Tgt Ion	Ratio	Lower	Upper
128	100		
49	155.9	138.6	257.4
130	136.5	90.0	167.2
51	49.5	46.9	70.3





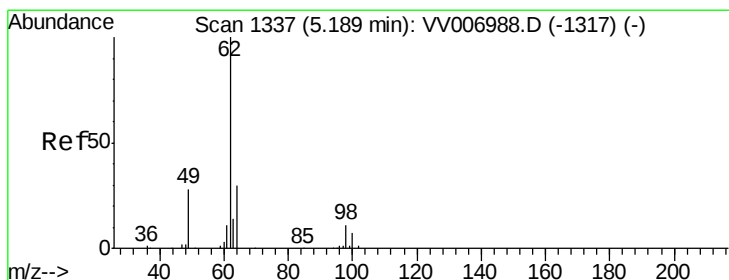
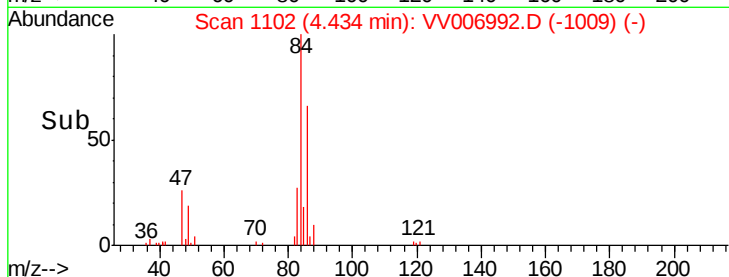
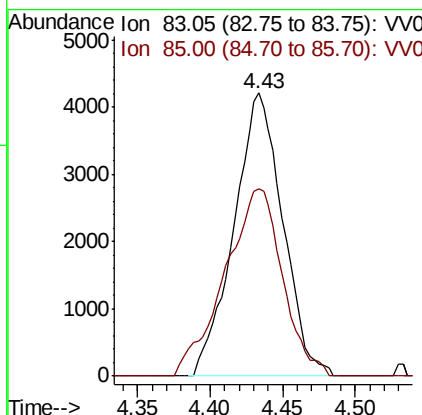
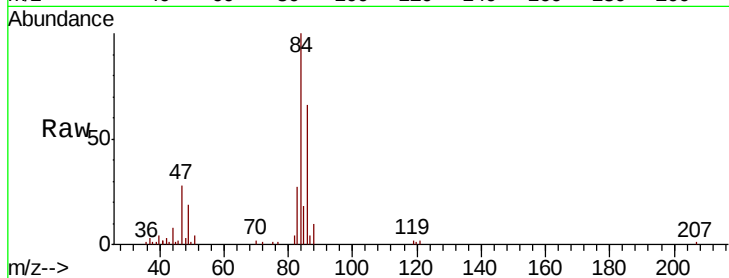
#25
Chloroform
Concen: 0.28 ug/L
RT: 4.43 min Scan# 1102
Delta R.T. -0.00 min
Lab File: VV006992.D
Acq: 10 Aug 2018 19:08

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion	83	Resp	9879
Ion Ratio	100	Lower	Upper
85	66.0	44.7	82.9

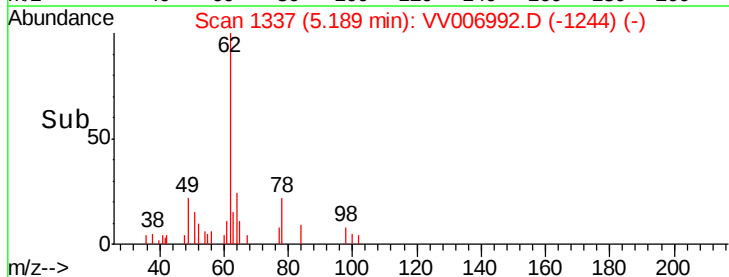
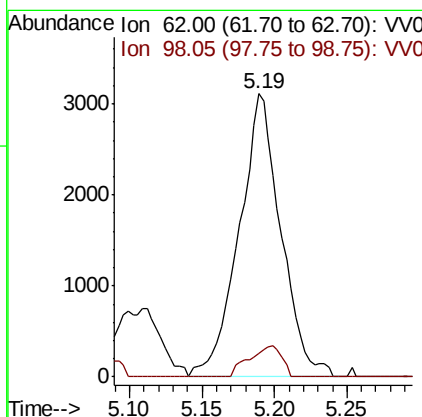
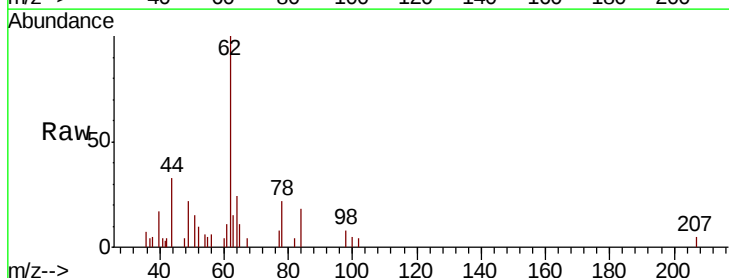
Manual Integrations
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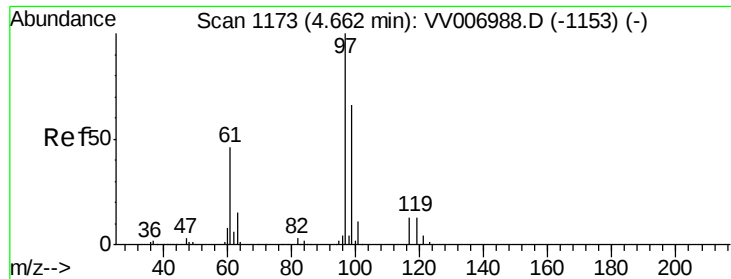
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#27
1,2-Dichloroethane
Concen: 0.28 ug/L
RT: 5.19 min Scan# 1337
Delta R.T. -0.00 min
Lab File: VV006992.D
Acq: 10 Aug 2018 19:08

Tgt Ion	62	Resp	6237
Ion Ratio	100	Lower	Upper
98	8.4	7.6	11.4





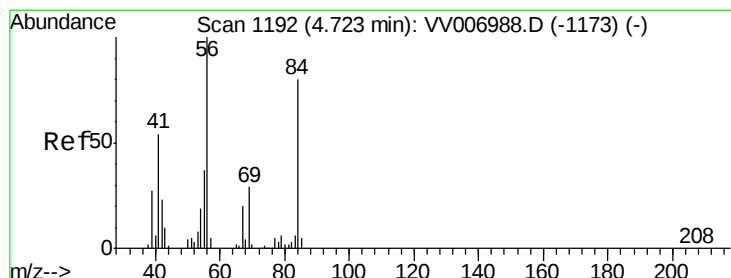
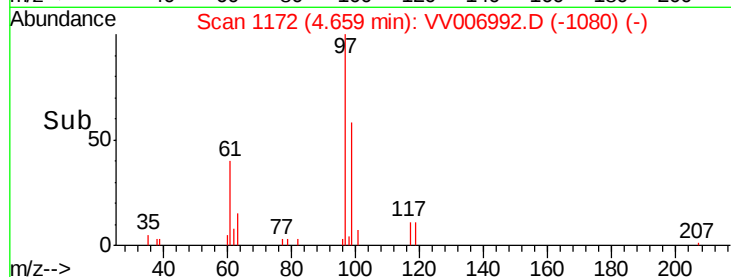
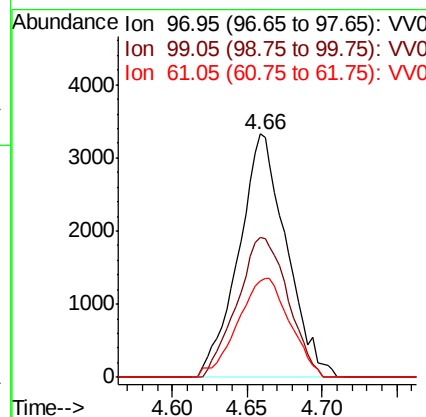
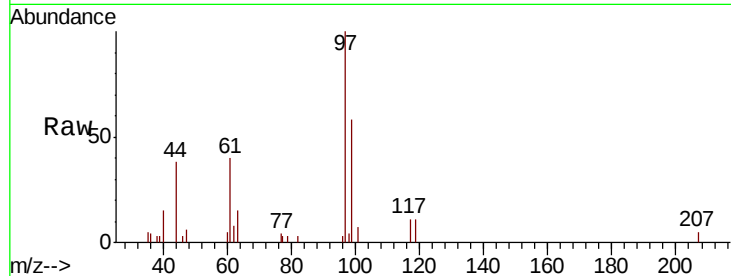
#29
 1,1,1-Trichloroethane
 Concen: 0.24 ug/L
 RT: 4.66 min Scan# 1172
 Delta R.T. -0.00 min
 Lab File: VV006992.D
 Acq: 10 Aug 2018 19:08

Instrument :
 MSVOA_V
 ClientSampled :
 MDL03

Tot Ion	Ratio	Lower	Upper
97	100		
99	61.0	51.0	76.6
61	44.2	36.6	54.8

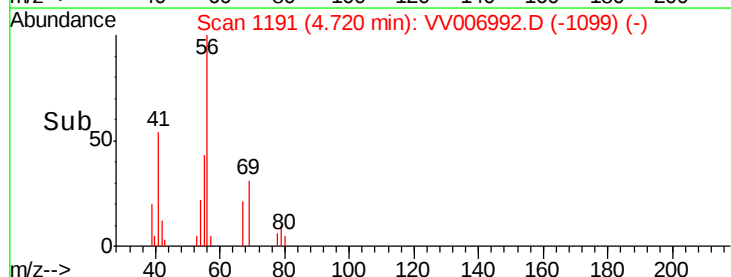
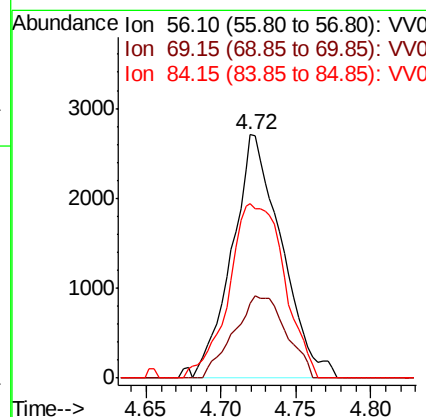
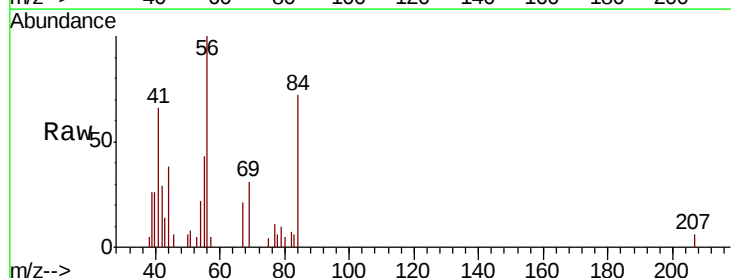
Manual Integrations
 APPROVED

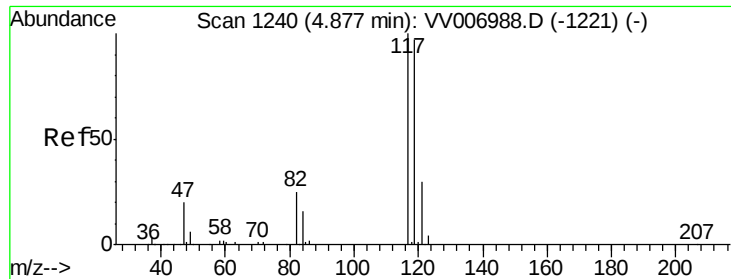
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#30
 Cyclohexane
 Concen: 0.20 ug/L
 RT: 4.72 min Scan# 1191
 Delta R.T. -0.00 min
 Lab File: VV006992.D
 Acq: 10 Aug 2018 19:08

Tgt Ion	Ratio	Lower	Upper
56	100		
69	35.7	23.8	35.6#
84	80.0	67.9	101.9





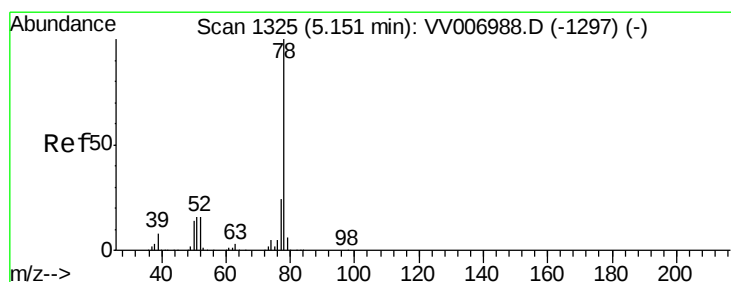
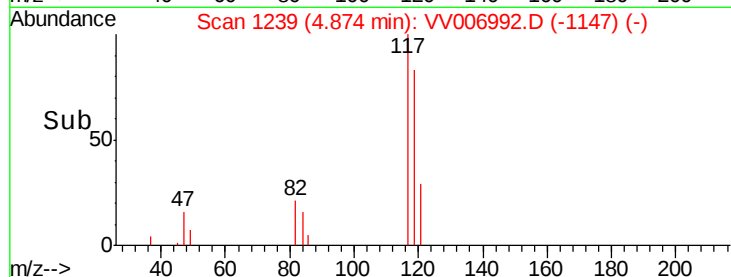
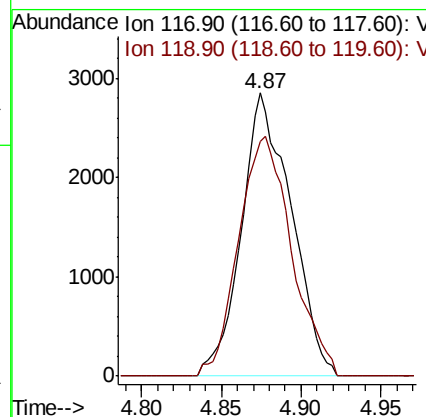
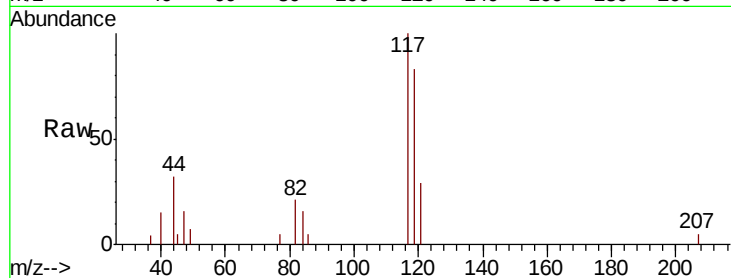
#31
Carbon tetrachloride
Concen: 0.24 ug/L
RT: 4.87 min Scan# 1239
Delta R.T. -0.00 min
Lab File: VV006992.D
Acq: 10 Aug 2018 19:08

Instrument :
MSVOA_V
ClientSampled :
MDL03

Tot Ion:117 Resp: 6070
Ion Ratio Lower Upper
117 100
119 90.4 76.2 114.4

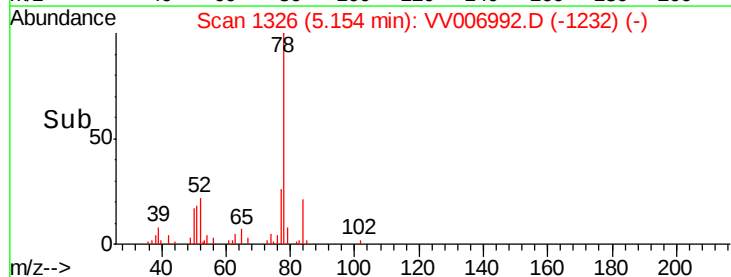
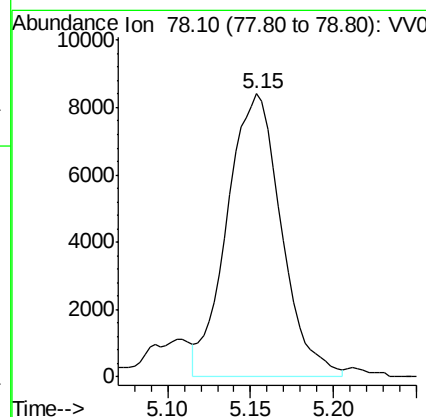
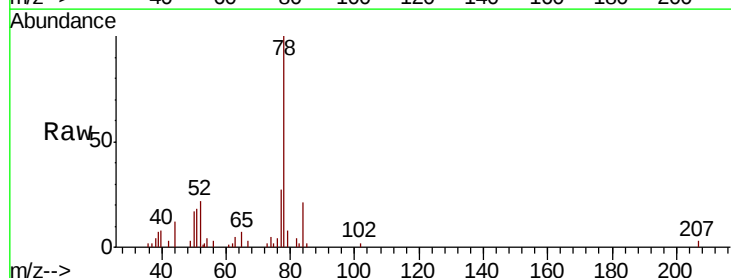
Manual Integrations
APPROVED

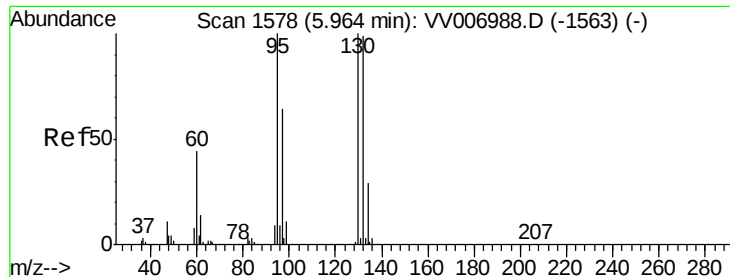
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#33
Benzene
Concen: 0.24 ug/L
RT: 5.15 min Scan# 1326
Delta R.T. 0.00 min
Lab File: VV006992.D
Acq: 10 Aug 2018 19:08

Tgt Ion: 78 Resp: 19088





#34

Trichloroethene

Concen: 0.23 ug/L

RT: 5.96 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

Instrument :

MSVOA_V

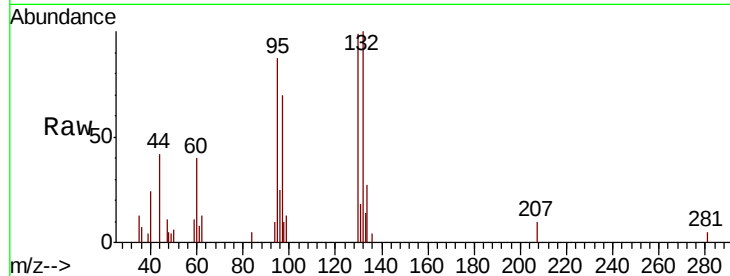
ClientSampled :

MDL03

Tot Ion:	95	Resp:	4346
Ion	Ratio	Lower	Upper
95	100		
97	80.9	44.8	83.2
132	114.8	65.5	121.6
130	114.2	66.4	123.4

Manual Integrations
APPROVED

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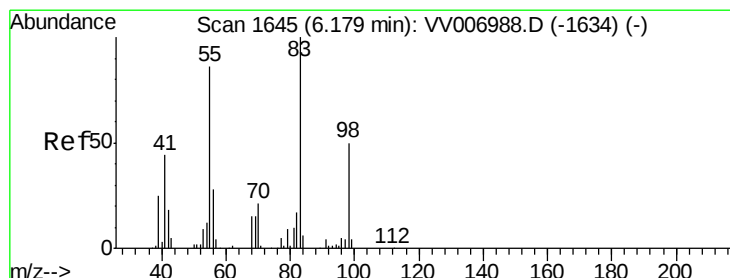
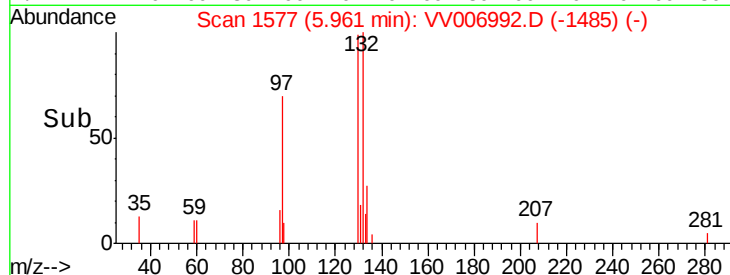
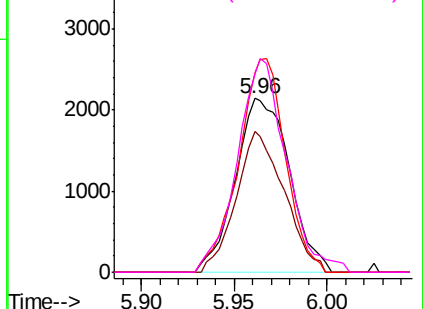


Abundance Ion 95.00 (94.70 to 95.70): VV006992.D (-1485) (-)

Ion 96.95 (96.65 to 97.65): VV006992.D (-1485) (-)

Ion 131.95 (131.65 to 132.65): VV006992.D (-1485) (-)

Ion 129.95 (129.65 to 130.65): VV006992.D (-1485) (-)



#35

Methylcyclohexane

Concen: 0.21 ug/L

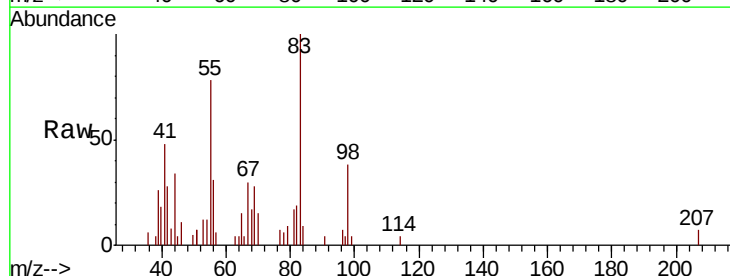
RT: 6.18 min Scan# 1644

Delta R.T. -0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

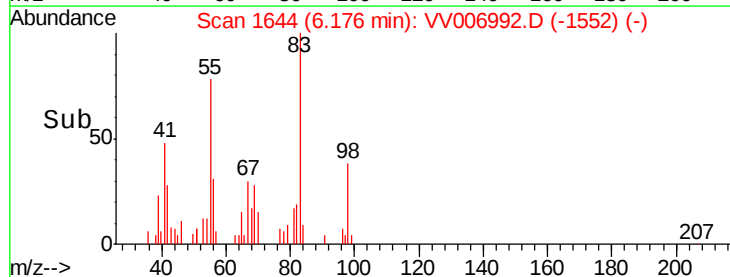
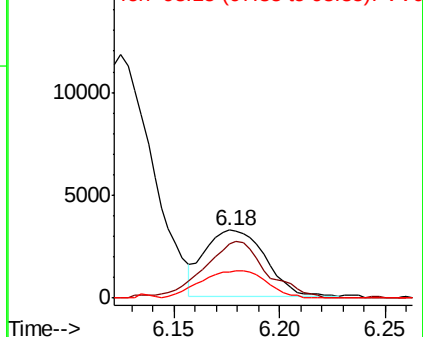
Tgt Ion:	83	Resp:	6449
Ion	Ratio	Lower	Upper
83	100		
55	87.8	68.1	102.1
98	44.7	37.9	56.9

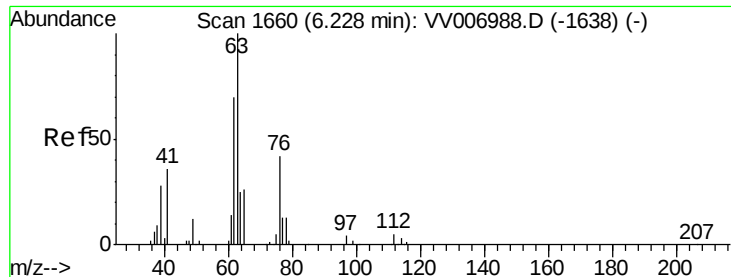


Abundance Ion 83.15 (82.85 to 83.85): VV006992.D (-1552) (-)

Ion 55.10 (54.80 to 55.80): VV006992.D (-1552) (-)

Ion 98.15 (97.85 to 98.85): VV006992.D (-1552) (-)





#37

1,2-Dichloropropane

Concen: 0.25 ug/L

RT: 6.23 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion: 63 Resp: 5339

Ion Ratio Lower Upper

63 100

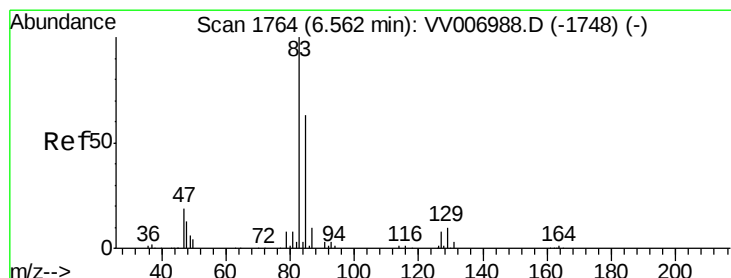
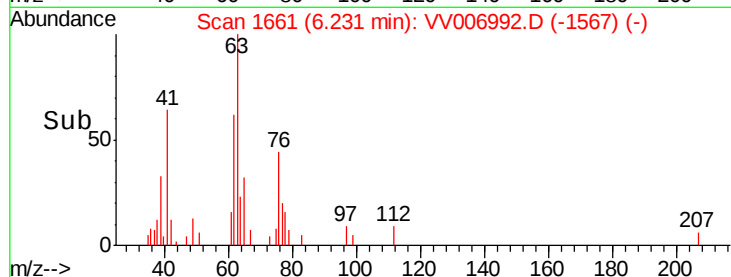
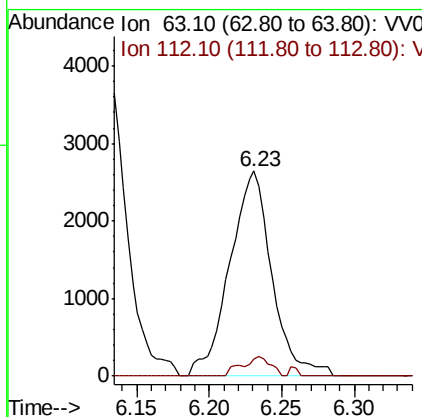
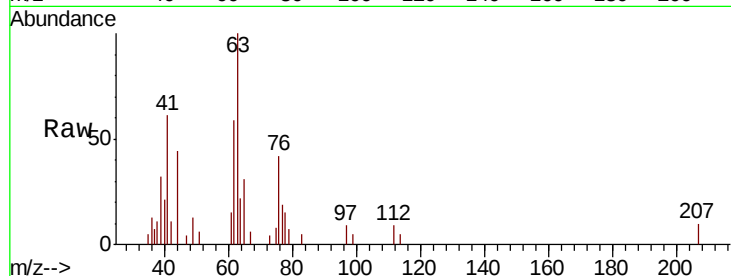
112 6.3 3.5 5.3#

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#38

Bromodichloromethane

Concen: 0.23 ug/L

RT: 6.57 min Scan# 1765

Delta R.T. 0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

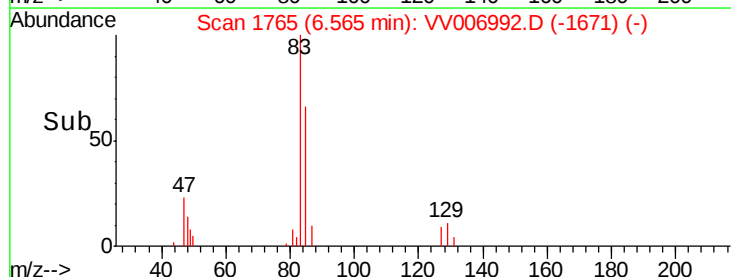
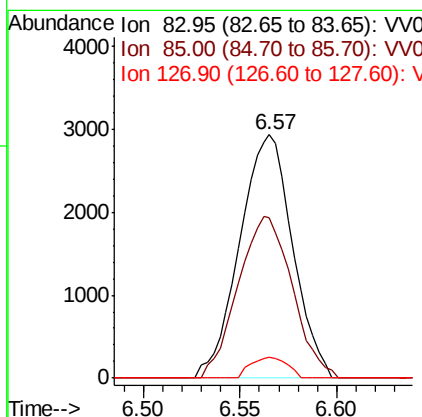
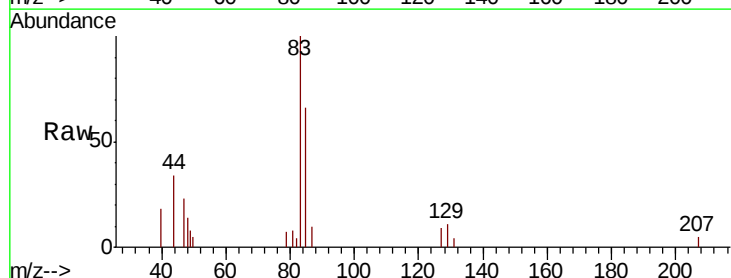
Tgt Ion: 83 Resp: 5582

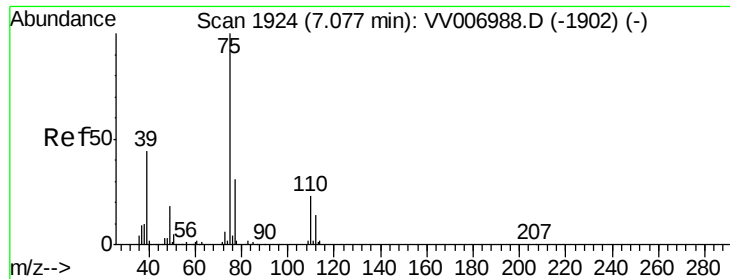
Ion Ratio Lower Upper

83 100

85 65.7 43.8 81.4

127 8.6 6.6 10.0





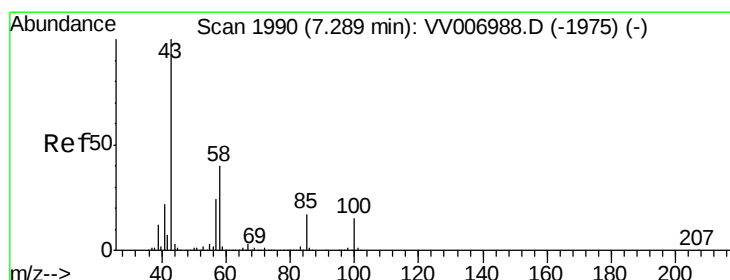
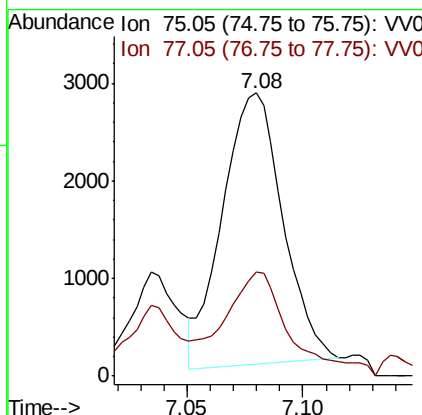
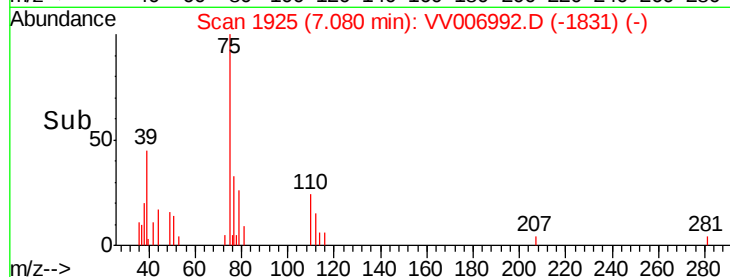
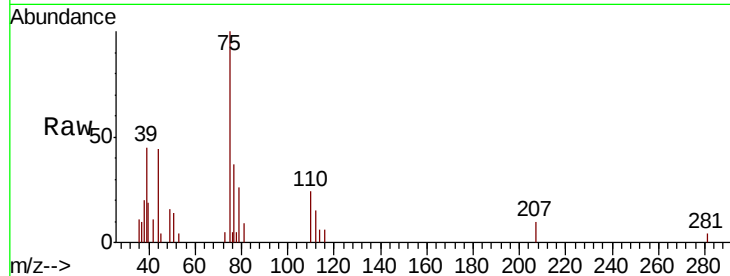
#39
 cis-1,3-Dichloropropene
 Concen: 0.19 ug/L
 RT: 7.08 min Scan# 1925
 Delta R.T. 0.00 min
 Lab File: VV006992.D
 Acq: 10 Aug 2018 19:08

Instrument :
 MSVOA_V
 ClientSampled :
 MDL03

Tot Ion	Ratio	Lower	Upper
75	100		
77	36.7	22.0	40.8

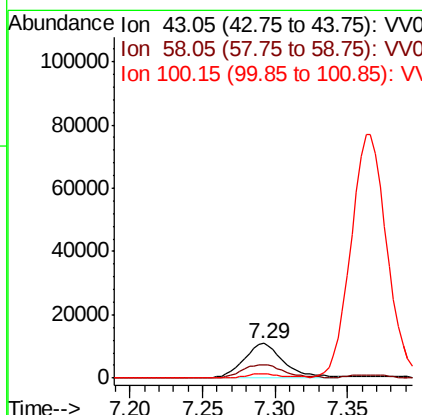
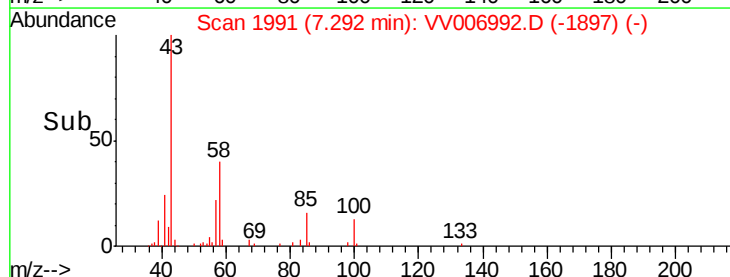
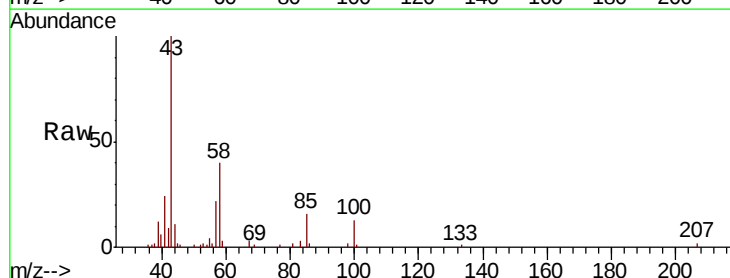
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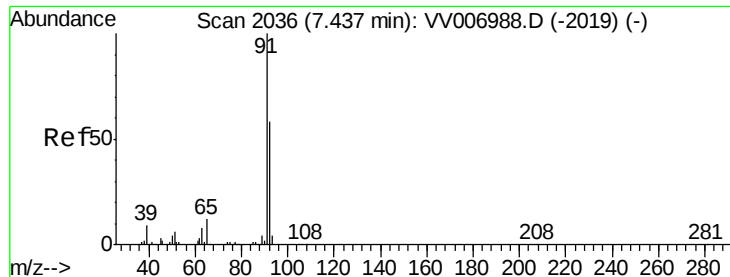
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#40
 4-Methyl-2-pentanone
 Concen: 1.81 ug/L
 RT: 7.29 min Scan# 1991
 Delta R.T. 0.00 min
 Lab File: VV006992.D
 Acq: 10 Aug 2018 19:08

Tgt Ion	Ratio	Lower	Upper
43	100		
58	41.3	30.7	46.1
100	0.0	11.2	16.8#





#42

Toluene

Concen: 0.21 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. -0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion: 91 Resp: 16269

Ion Ratio Lower Upper

91 100

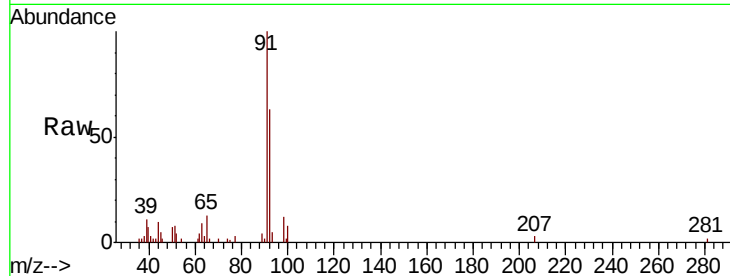
92 63.0 40.2 74.6

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

Ion 92.15 (91.85 to 92.85): VV006992.D (-1943) (-)

7.44

10000

8000

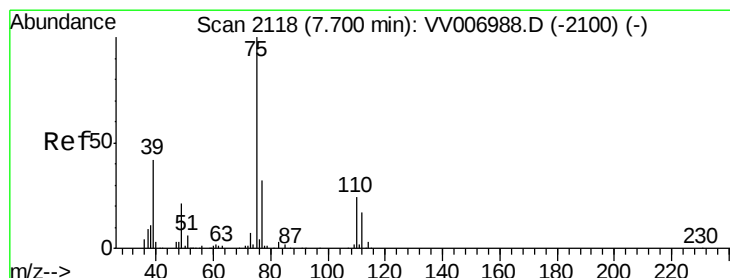
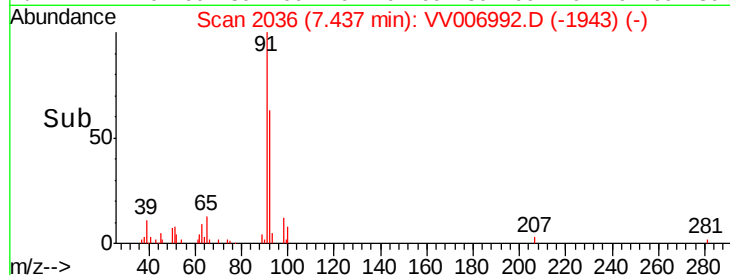
6000

4000

2000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 0.22 ug/L m

RT: 7.70 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VV006992.D

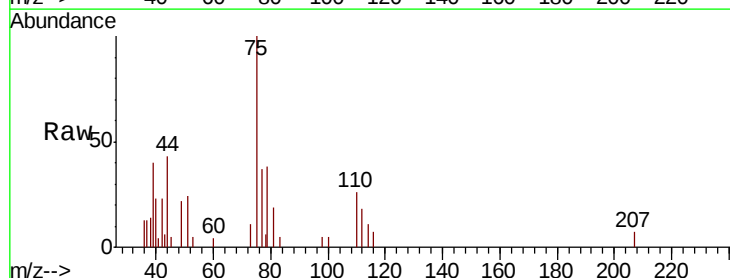
Acq: 10 Aug 2018 19:08

Tgt Ion: 75 Resp: 4729

Ion Ratio Lower Upper

75 100

77 37.2 22.3 41.3



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

Ion 77.05 (76.75 to 77.75): VV006992.D (-2025) (-)

7.70

2500

2000

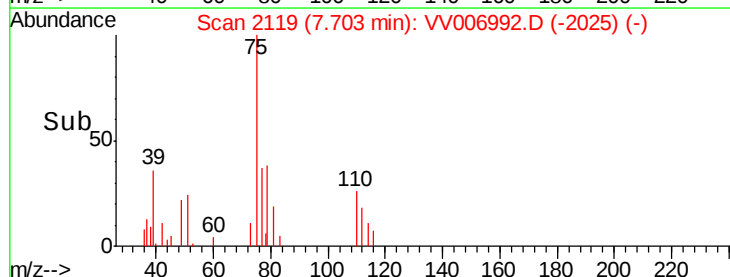
1500

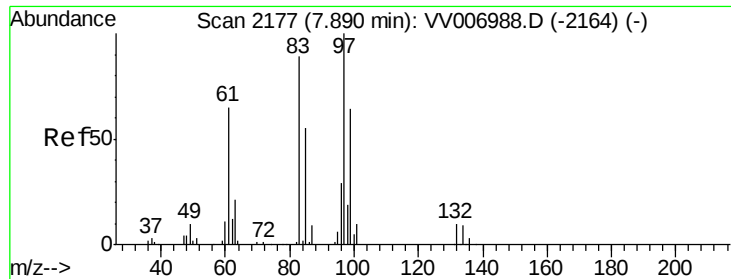
1000

500

0

Time-->





#45

1,1,2-Trichloroethane

Concen: 0.22 ug/L

RT: 7.89 min Scan# 2177

Delta R.T. -0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

Instrument :

MSVOA_V

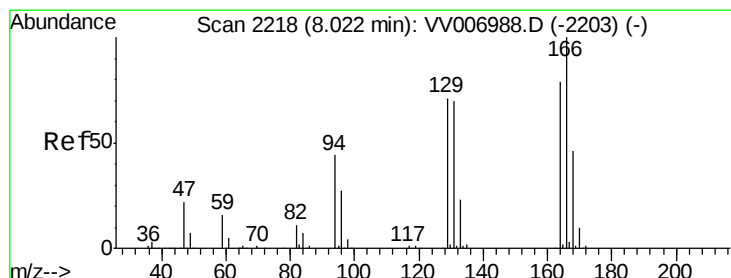
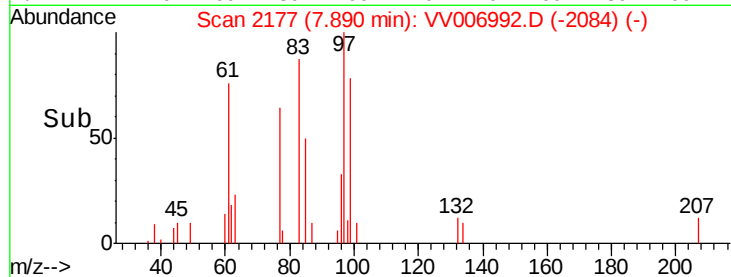
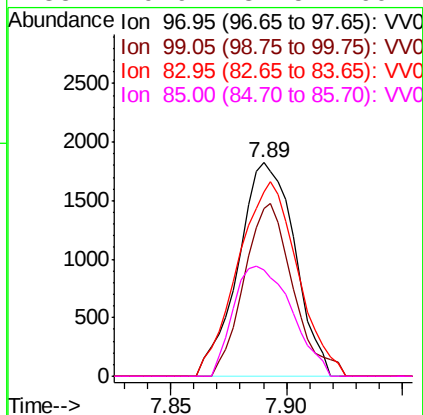
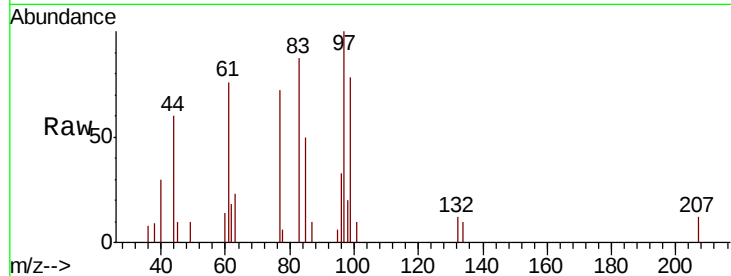
ClientSampleId :

MDL03

Tot Ion:	97	Resp:	3085
Ion	Ratio	Lower	Upper
97	100		
99	78.4	40.6	75.4#
83	86.6	58.0	107.8
85	49.9	37.5	69.7

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#47

Tetrachloroethene

Concen: 0.26 ug/L

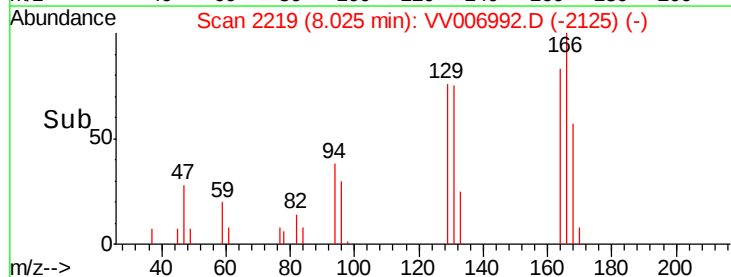
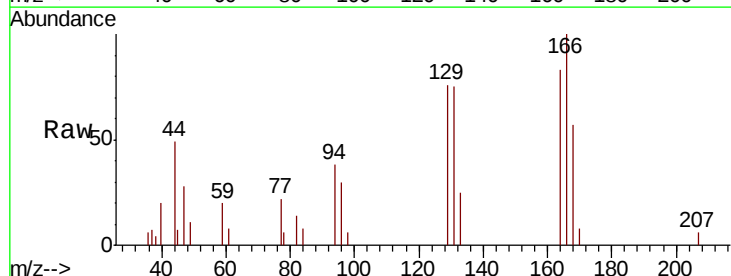
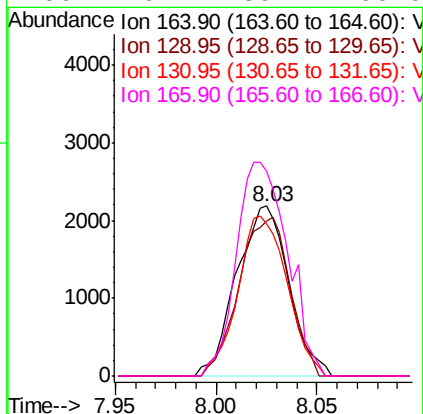
RT: 8.03 min Scan# 2219

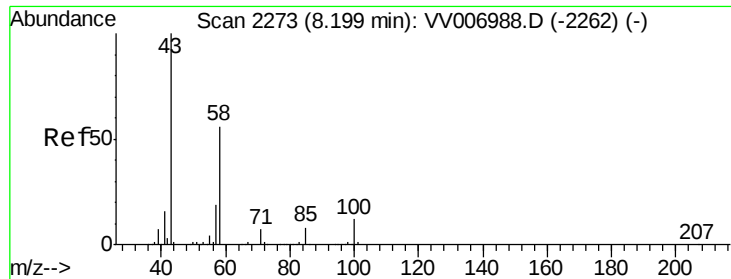
Delta R.T. 0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

Tgt Ion:	164	Resp:	3942
Ion	Ratio	Lower	Upper
164	100		
129	91.6	65.9	122.3
131	89.9	64.2	119.2
166	120.4	89.4	166.0





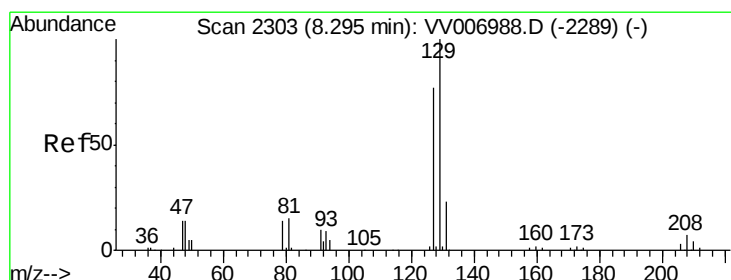
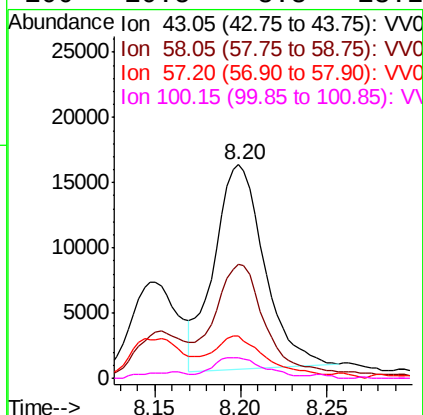
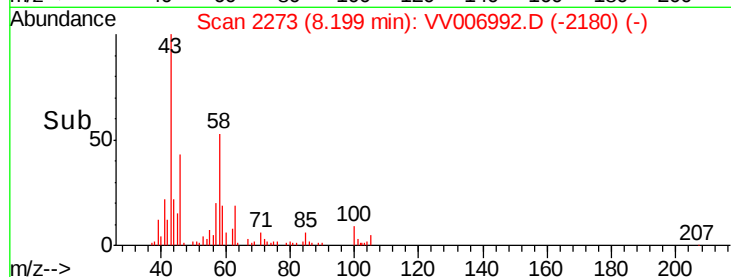
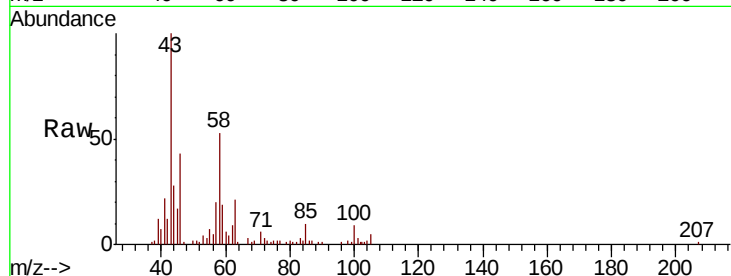
#48
2-Hexanone
Concen: 3.86 ug/L
RT: 8.20 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VV006992.D
Acq: 10 Aug 2018 19:08

Instrument :
MSVOA_V
ClientSampleID :
MDL03

Tot Ion	Ion	Ratio	Lower	Upper
43	100			
58	60.2	44.2	66.2	
57	20.6	14.8	22.2	
100	10.5	8.8	13.2	

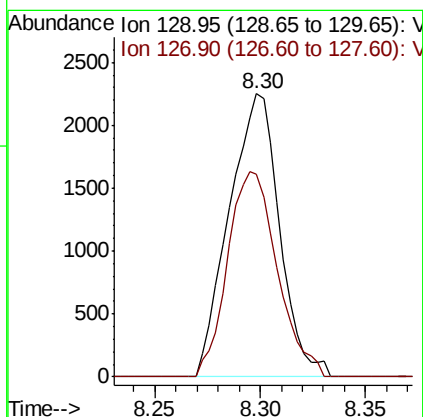
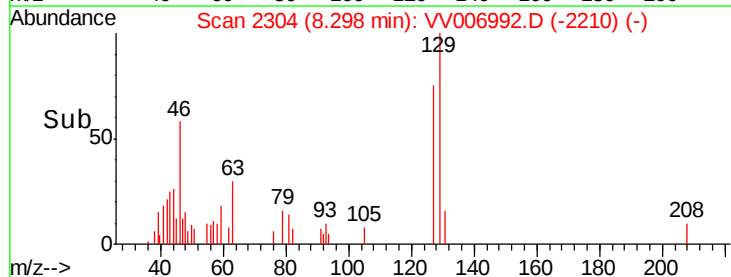
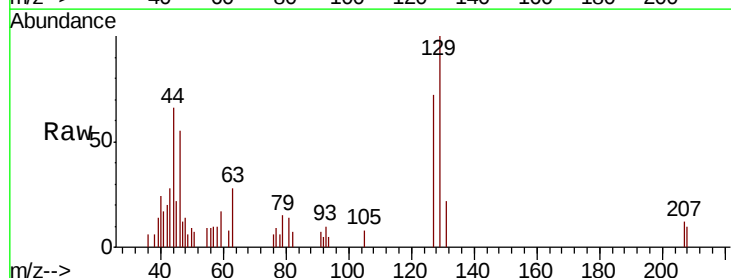
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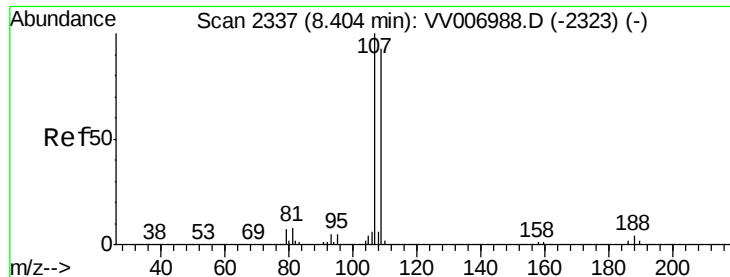
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#49
Dibromochloromethane
Concen: 0.25 ug/L
RT: 8.30 min Scan# 2304
Delta R.T. 0.00 min
Lab File: VV006992.D
Acq: 10 Aug 2018 19:08

Tgt Ion	Ion	Ratio	Lower	Upper
129	100			
127	71.8	53.3	98.9	





#50

1,2-Dibromoethane

Concen: 0.25 ug/L

RT: 8.40 min Scan# 2337

Delta R.T. -0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

Instrument :

MSVOA_V

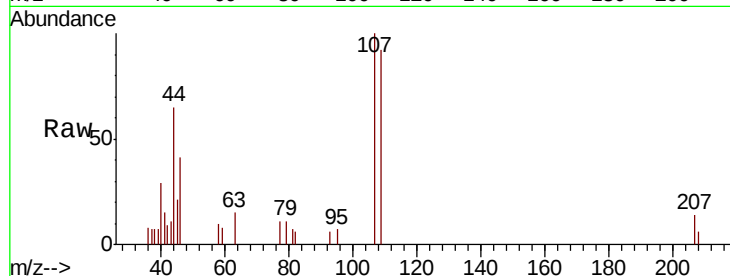
ClientSampleId :

MDL03

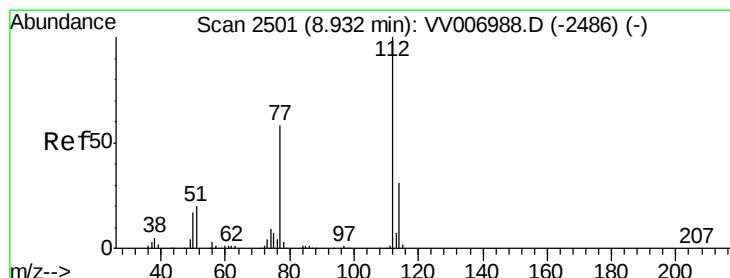
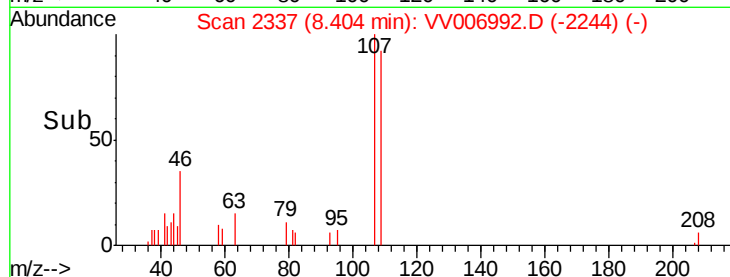
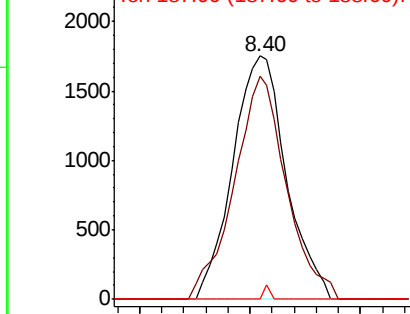
Tot Ion:	107	Resp:	2950
Ion Ratio	Lower	Upper	
107	100		
109	91.6	64.1	119.1
188	0.0	4.0	6.0#

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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: 0.23 ug/L

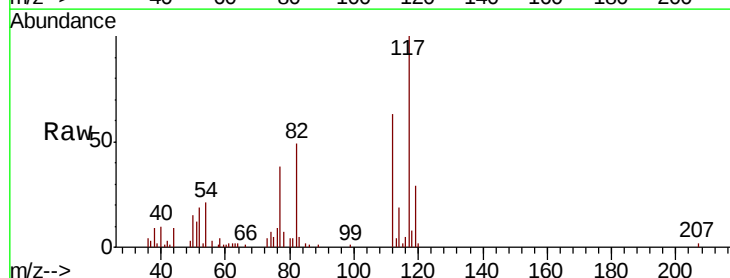
RT: 8.93 min Scan# 2500

Delta R.T. -0.00 min

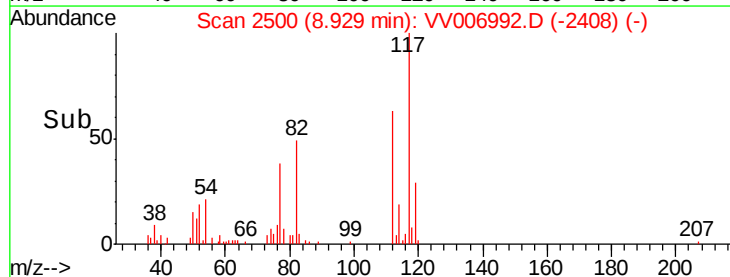
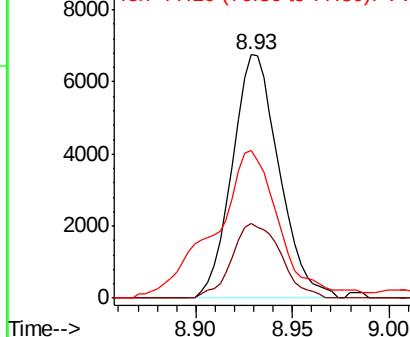
Lab File: VV006992.D

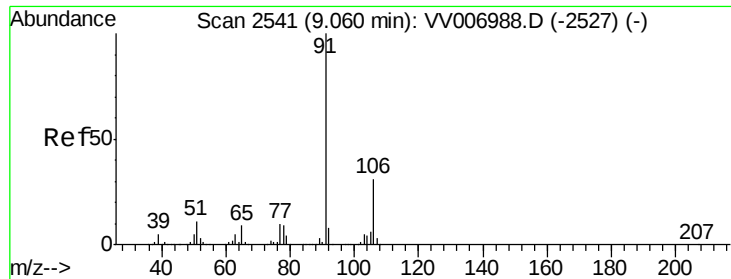
Acq: 10 Aug 2018 19:08

Tgt Ion:	112	Resp:	11375
Ion Ratio	Lower	Upper	
112	100		
114	30.4	21.8	40.6
77	60.5	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): VV0





#52

Ethylbenzene

Concen: 0.21 ug/L

RT: 9.06 min Scan# 2542

Delta R.T. 0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion: 91 Resp: 15921

Ion Ratio Lower Upper

91 100

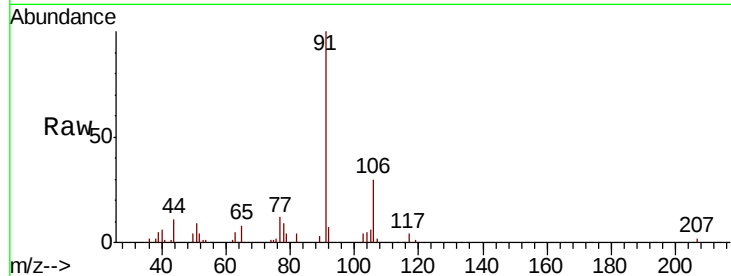
106 29.8 21.3 39.5

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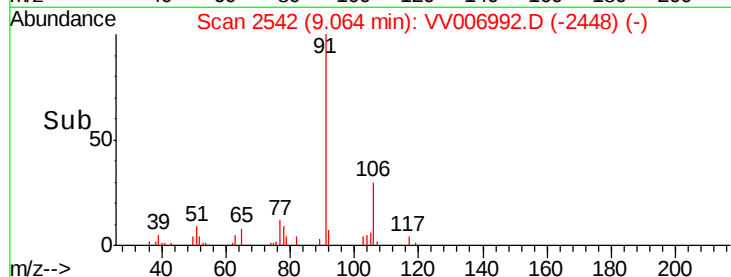
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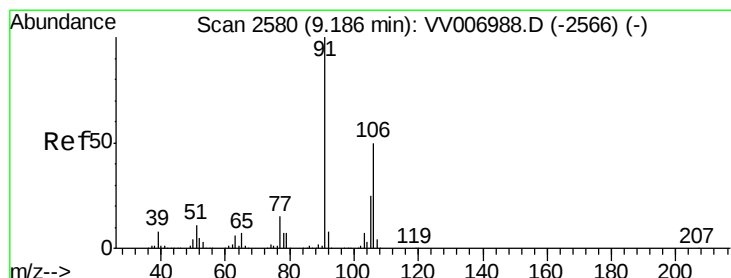
Abundance Ion 91.15 (90.85 to 91.85): VV006988.D (-2527) (-)

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

Time-->



Time-->



#53

m,p-xylene

Concen: 0.20 ug/L

RT: 9.19 min Scan# 2581

Delta R.T. 0.00 min

Lab File: VV006992.D

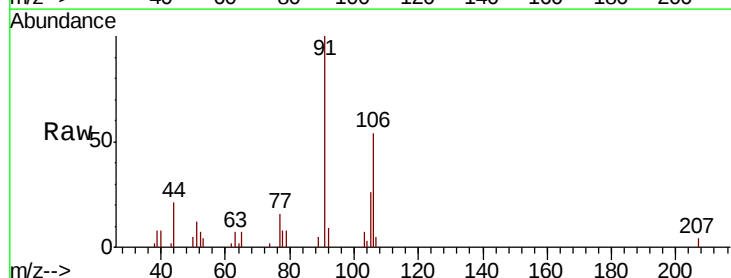
Acq: 10 Aug 2018 19:08

Tgt Ion: 106 Resp: 5593

Ion Ratio Lower Upper

106 100

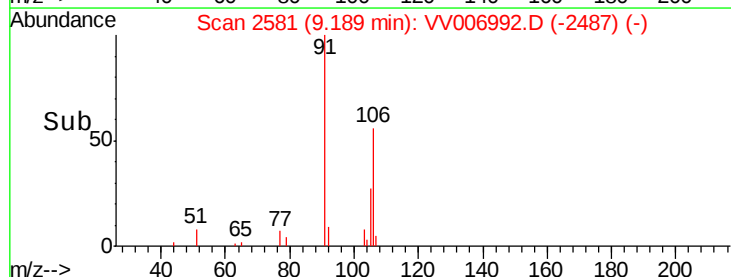
91 184.0 141.6 263.0



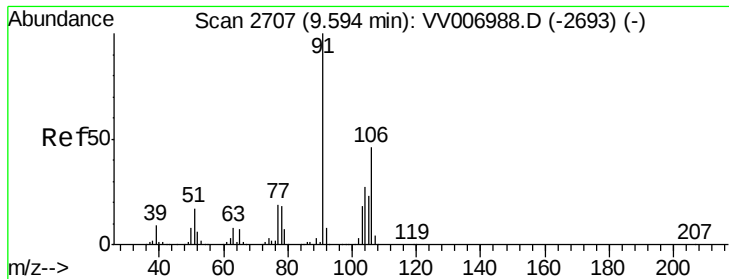
Abundance Ion 106.15 (105.85 to 106.85): VV006988.D (-2566) (-)

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

Time-->



Time-->



#54

o-xylene

Concen: 0.21 ug/L

RT: 9.59 min Scan# 2707

Delta R.T. -0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion:106 Resp: 5697

Ion Ratio Lower Upper

106 100

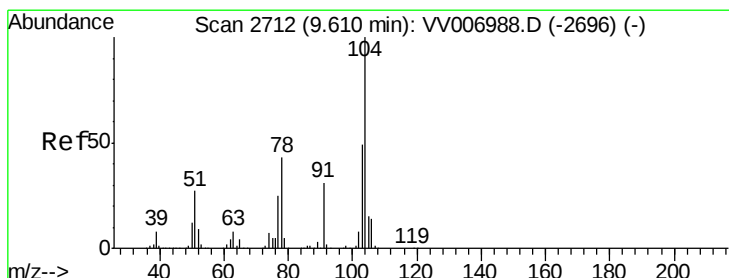
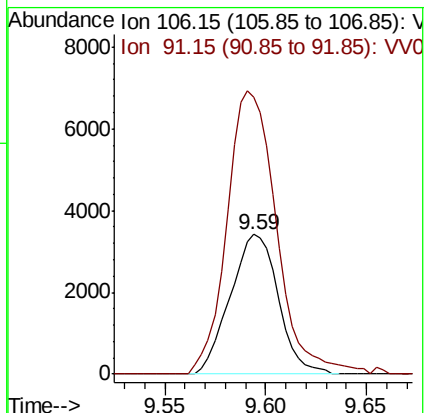
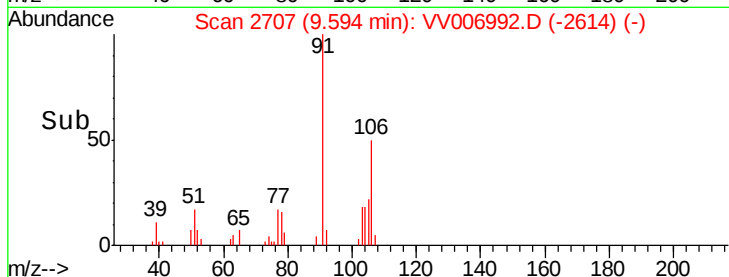
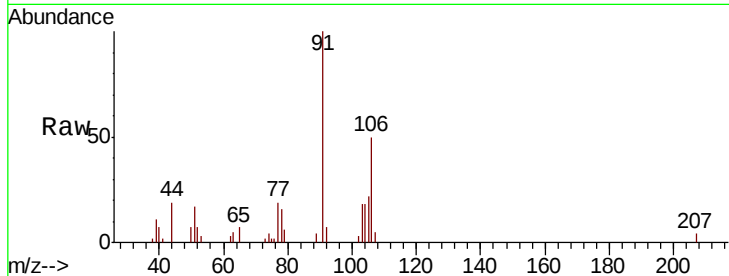
91 198.3 149.8 278.2

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#55

Styrene

Concen: 0.17 ug/L

RT: 9.61 min Scan# 2712

Delta R.T. -0.00 min

Lab File: VV006992.D

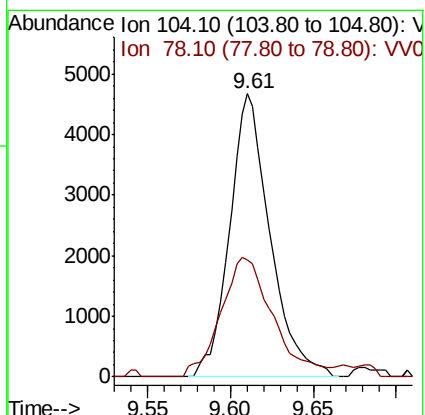
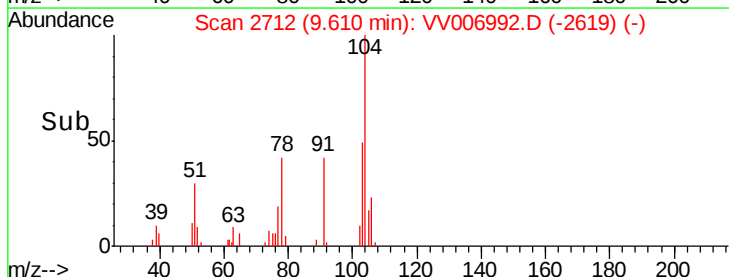
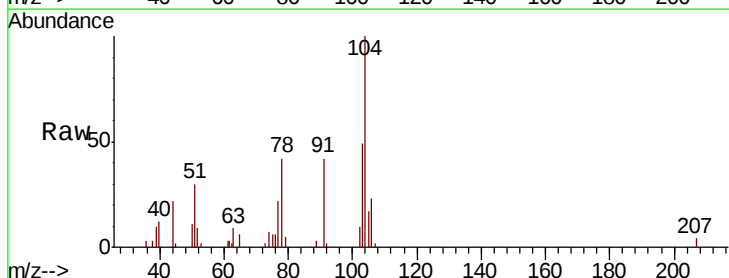
Acq: 10 Aug 2018 19:08

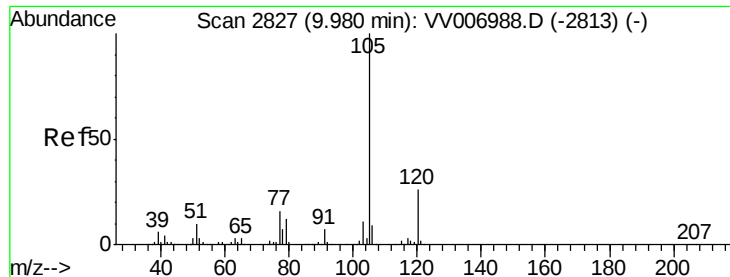
Tgt Ion:104 Resp: 7917

Ion Ratio Lower Upper

104 100

78 41.5 30.4 56.5





#56

Isopropylbenzene

Concen: 0.18 ug/L

RT: 9.98 min Scan# 2827

Delta R.T. -0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

Instrument :

MSVOA_V

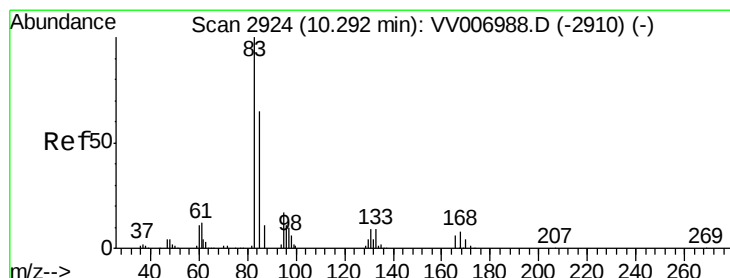
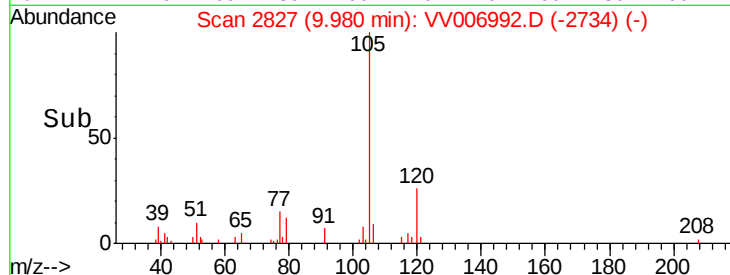
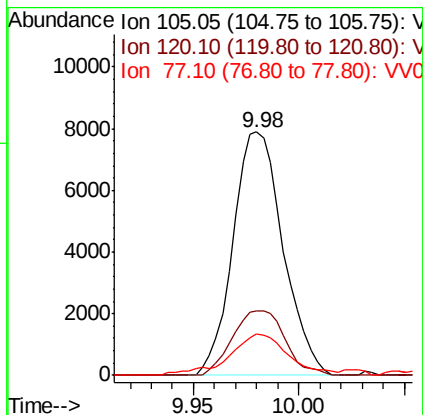
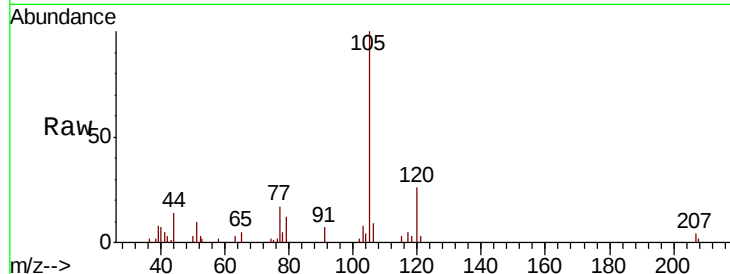
ClientSampled :

MDL03

Tot Ion:	105	Resp:	12989
Ion Ratio	Lower	Upper	
105	100		
120	27.8	21.1	31.7
77	20.0	13.0	19.4

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#58

1,1,2,2-Tetrachloroethane

Concen: 0.22 ug/L

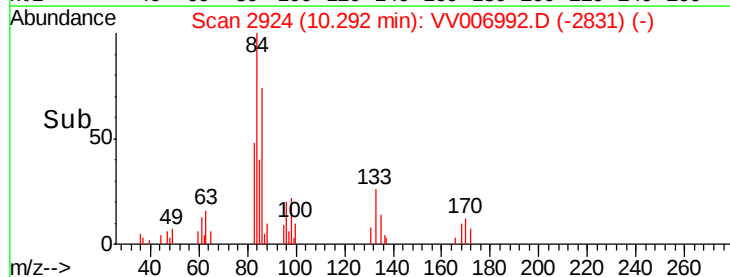
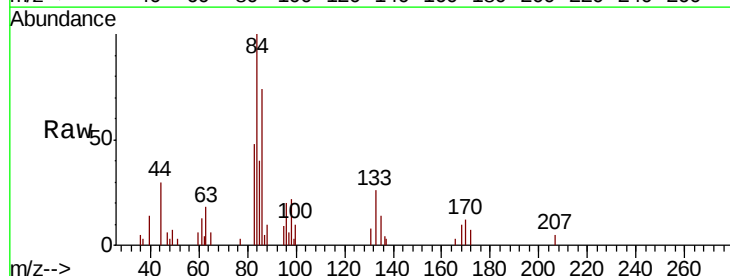
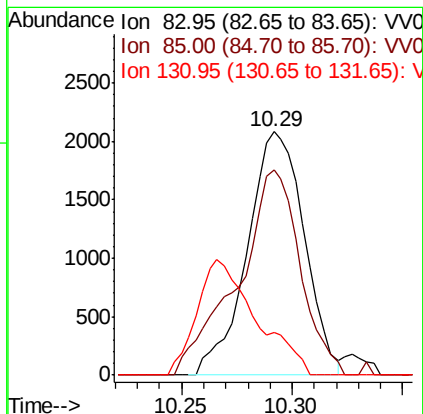
RT: 10.29 min Scan# 2924

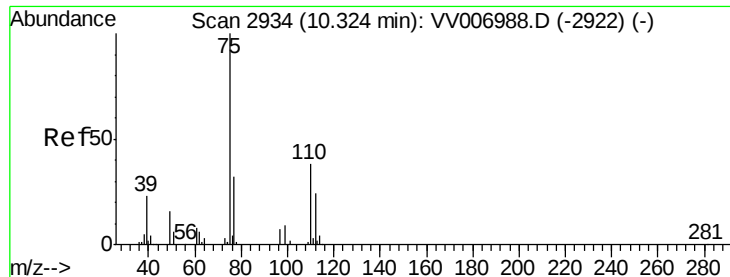
Delta R.T. -0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

Tgt Ion:	83	Resp:	3727
Ion Ratio	Lower	Upper	
83	100		
85	84.5	43.0	79.8
131	17.4	7.4	11.2





#59

1,2,3-Trichloropropane

Concen: 0.25 ug/L

RT: 10.33 min Scan# 2935

Delta R.T. 0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

Instrument :

MSVOA_V

ClientSampled :

MDL03

Tot Ion: 75 Resp: 3091

Ion Ratio Lower Upper

75 100

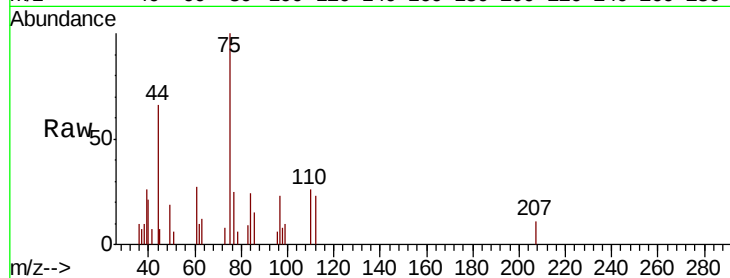
77 39.6 25.4 38.0#

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Abundance Ion 75.00 (74.70 to 75.70): VV006988.D (-2922) (-)

Ion 77.00 (76.70 to 77.70): VV006988.D (-2922) (-)

10.33

2000

1500

1000

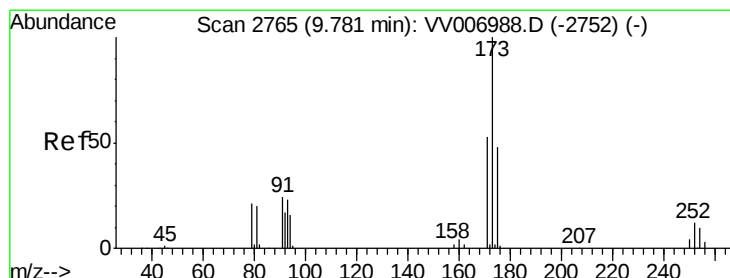
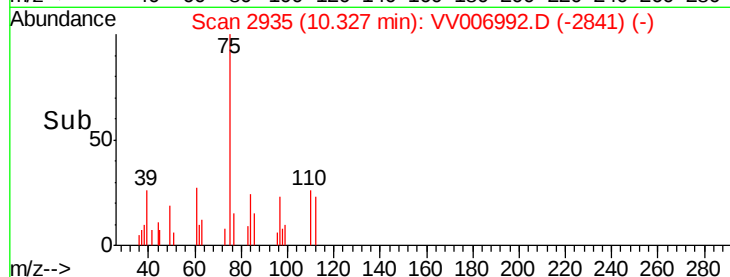
500

0

10.30

10.35

Time-->



#61

Bromoform

Concen: 0.28 ug/L

RT: 9.78 min Scan# 2765

Delta R.T. -0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

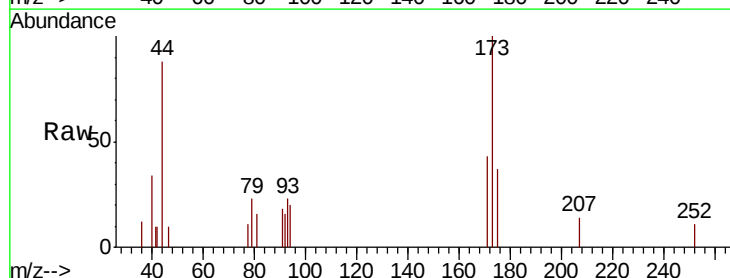
Tgt Ion: 173 Resp: 1980

Ion Ratio Lower Upper

173 100

175 41.2 39.3 58.9

254 4.4 8.3 12.5#



Abundance Ion 172.90 (172.60 to 173.60): VV006988.D (-2752) (-)

Ion 174.90 (174.60 to 175.60): VV006988.D (-2752) (-)

Ion 253.75 (253.45 to 254.45): VV006988.D (-2752) (-)

9.78

1500

1000

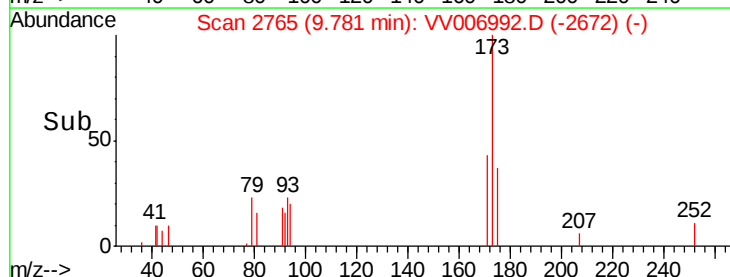
500

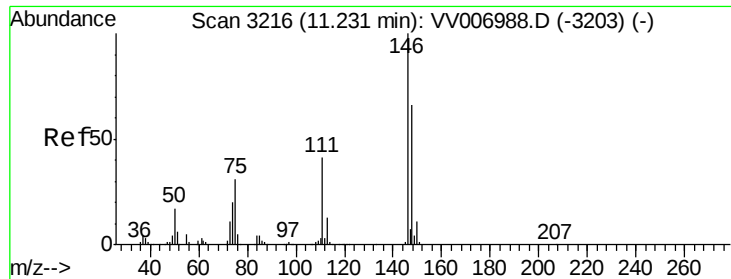
0

9.75

9.80

Time-->





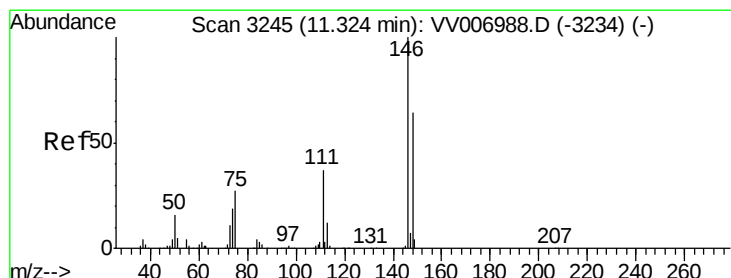
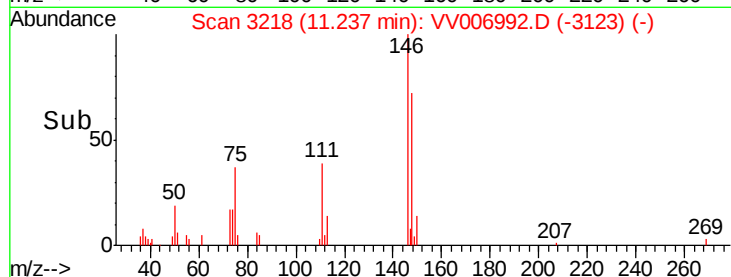
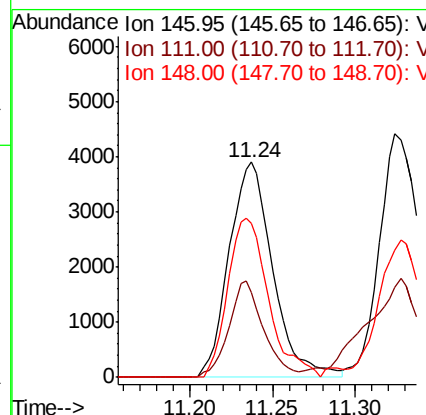
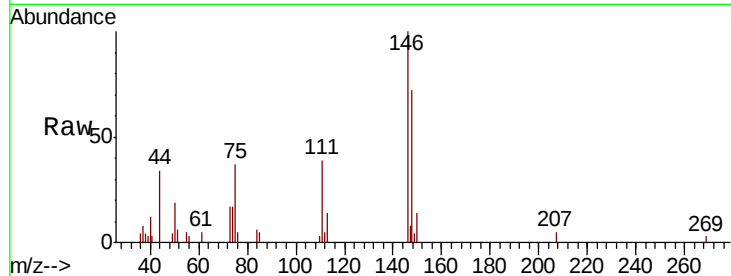
#62
 1,3-Dichlorobenzene
 Concen: 0.24 ug/L
 RT: 11.24 min Scan# 3218
 Delta R.T. 0.01 min
 Lab File: VV006992.D
 Acq: 10 Aug 2018 19:08

Instrument :
 MSVOA_V
 ClientSampled :
 MDL03

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.4	28.1	52.3
148	71.7	44.2	82.2

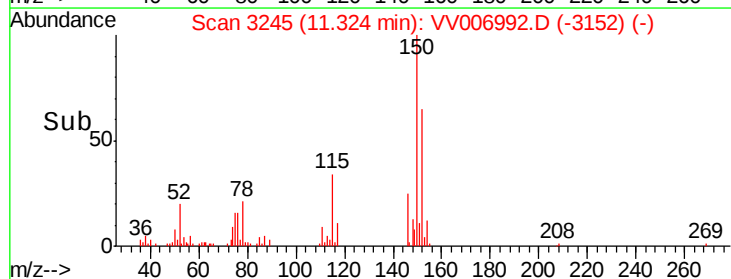
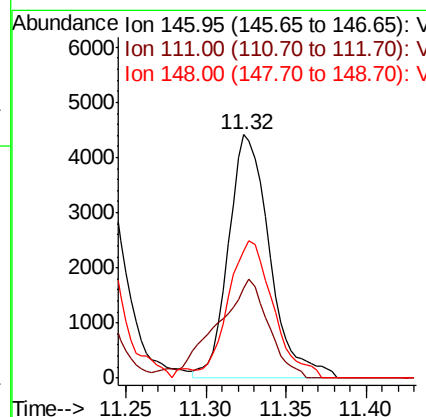
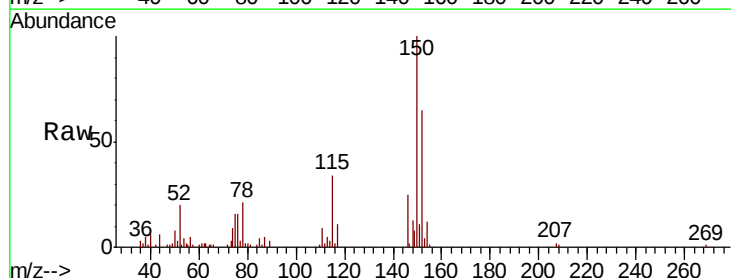
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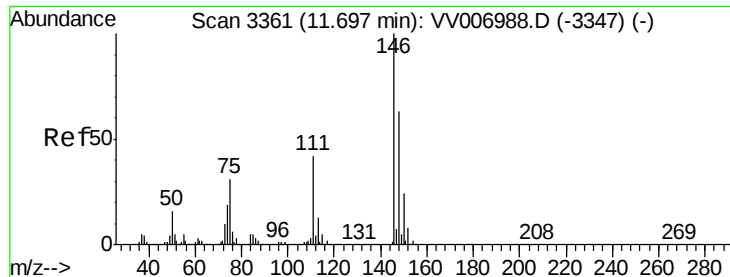
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#63
 1,4-Dichlorobenzene
 Concen: 0.25 ug/L
 RT: 11.32 min Scan# 3245
 Delta R.T. -0.00 min
 Lab File: VV006992.D
 Acq: 10 Aug 2018 19:08

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.1	26.6	49.4
148	52.3	46.4	86.2





#65

1,2-Dichlorobenzene

Concen: 0.25 ug/L

RT: 11.70 min Scan# 3362

Delta R.T. 0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

Instrument :

MSVOA_V

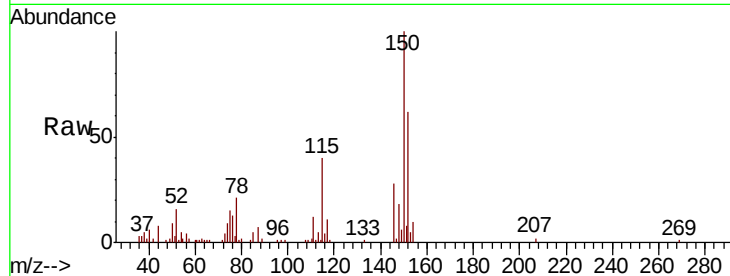
ClientSampled :

MDL03

Tot Ion:	146	Resp:	7415
Ion Ratio	Lower	Upper	
146	100		
111	43.7	33.0	49.6
148	66.1	50.6	75.8

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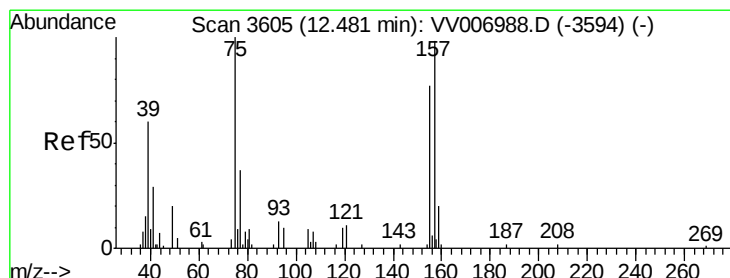
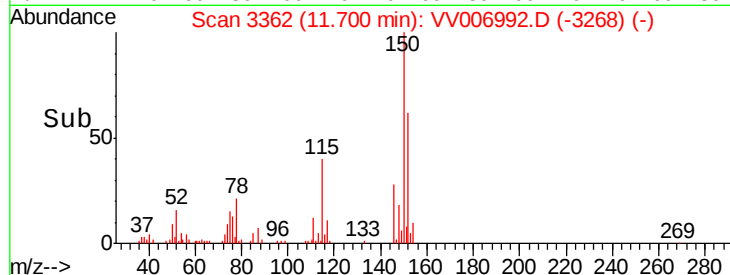
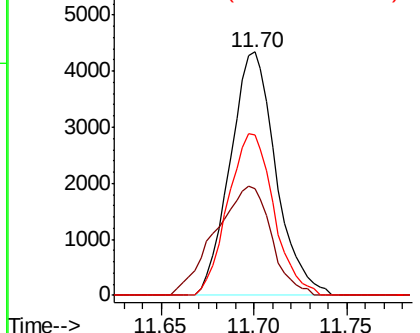


Abundance

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

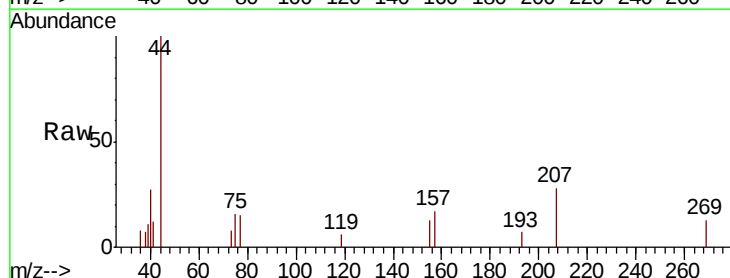
RT: 12.48 min Scan# 3606

Delta R.T. 0.00 min

Lab File: VV006992.D

Acq: 10 Aug 2018 19:08

Tgt Ion:	75	Resp:	498
Ion Ratio	Lower	Upper	
75	100		
155	77.7	62.6	94.0
157	103.0	77.0	115.6

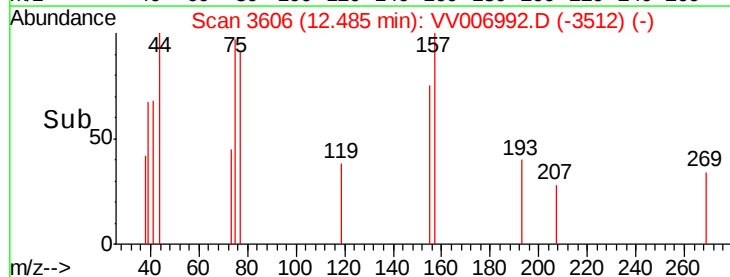
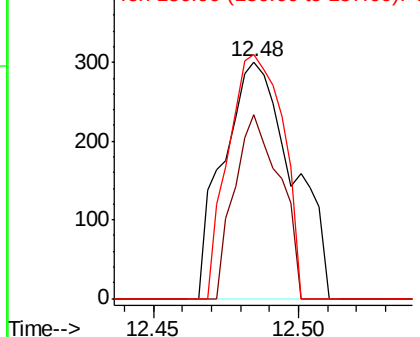


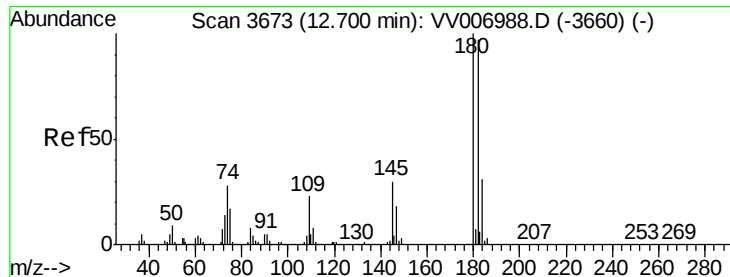
Abundance

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





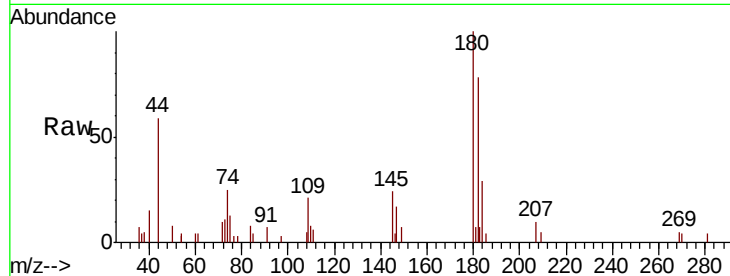
#67
 1,3,5-Trichlorobenzene
 Concen: 0.24 ug/L
 RT: 12.70 min Scan# 3674
 Delta R.T. 0.00 min
 Lab File: VV006992.D
 Acq: 10 Aug 2018 19:08

Instrument :
 MSVOA_V
 ClientSampled :
 MDL03

Tot Ion	Ratio	Lower	Upper
180	100		
182	85.2	75.1	112.7
184	27.7	23.8	35.8
145	26.4	21.9	32.9

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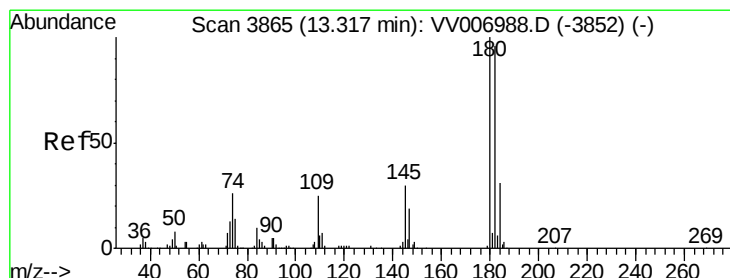
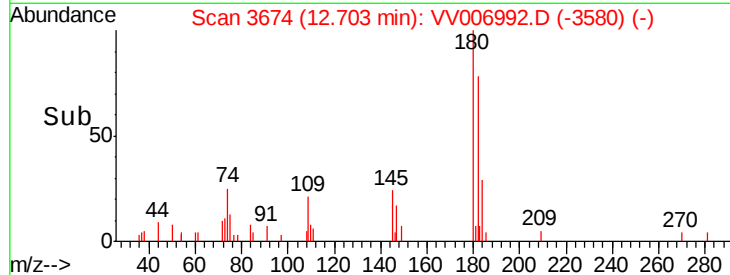
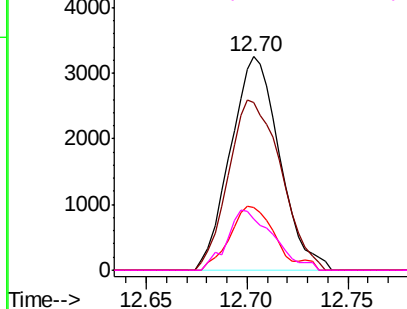
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

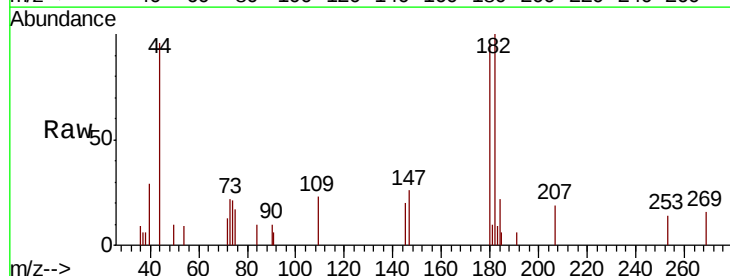
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 0.17 ug/L
 RT: 13.32 min Scan# 3865
 Delta R.T. -0.00 min
 Lab File: VV006992.D
 Acq: 10 Aug 2018 19:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	107.9	76.5	114.7
145	14.2	23.6	35.4#

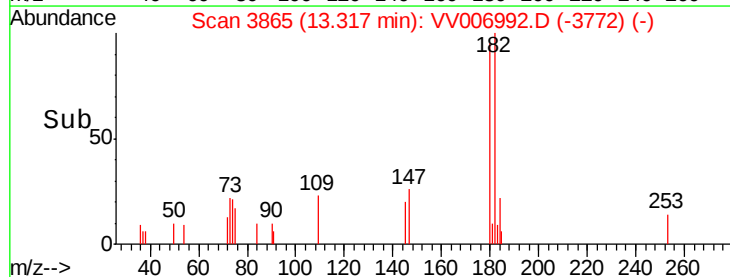
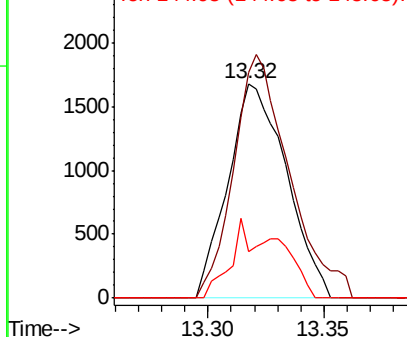


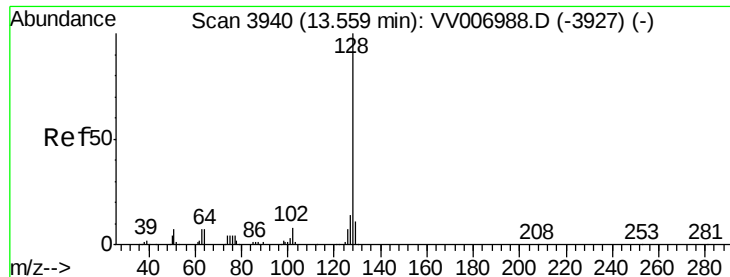
Abundance

Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





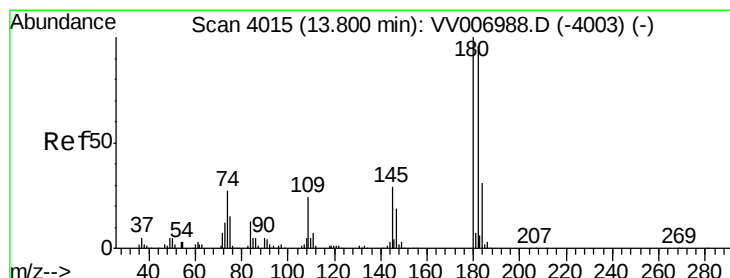
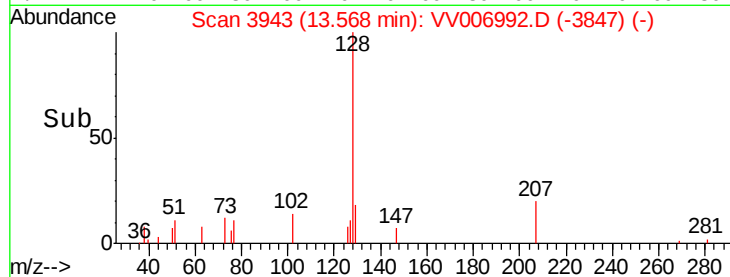
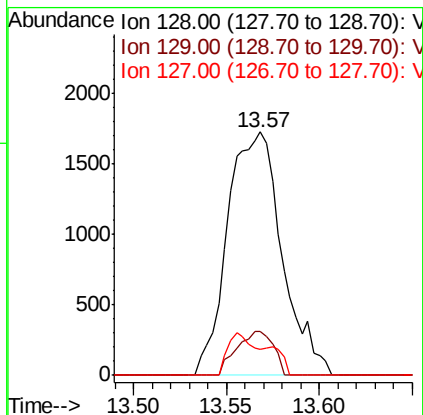
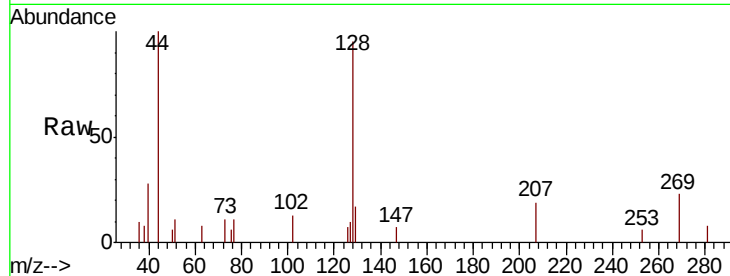
#69
Naphthalene
Concen: 0.15 ug/L
RT: 13.57 min Scan# 3943
Delta R.T. 0.01 min
Lab File: VV006992.D
Acq: 10 Aug 2018 19:08

Instrument :
MSVOA_V
ClientSampleId :
MDL03

Tot Ion	Ratio	Lower	Upper
128	100		
129	12.0	8.5	12.7
127	8.5	10.6	16.0

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#70
1,2,3-Trichlorobenzene
Concen: 0.18 ug/L
RT: 13.80 min Scan# 4016
Delta R.T. 0.00 min
Lab File: VV006992.D
Acq: 10 Aug 2018 19:08

Tgt Ion	Ratio	Lower	Upper
180	100		
182	88.2	76.1	114.1
145	32.7	24.6	36.8

