

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081018\
 Data File : VV006988.D
 Acq On : 10 Aug 2018 17:04
 Operator : SY/MD
 Sample : VSTDCCC005
 Misc : 25 mL/MSVOA V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00584

Quant Time: Aug 10 23:16:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR080918WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Aug 10 23:13:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	256389	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	248735	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	113231	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	67928	4.10	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	82.00%
7) Chloroethane-d5	1.58	69	61172	4.36	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	87.20%
11) 1,1-Dichloroethene-d2	2.13	63	133545	4.30	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	86.00%
20) 2-Butanone-d5	3.97	46	243944	51.25	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	102.50%
24) Chloroform-d	4.40	84	164186	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.80%
26) 1,2-Dichloroethane-d4	5.09	65	82814	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.60%
32) Benzene-d6	5.10	84	299087	4.68	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.60%
36) 1,2-Dichloropropane-d6	6.12	67	105070	4.81	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.20%
41) Toluene-d8	7.36	98	266021	4.89	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.80%
43) trans-1,3-Dichloropropene-	7.67	79	35778	4.71	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	94.20%
46) 2-Hexanone-d5	8.15	63	153751	49.47	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	98.94%
57) 1,1,2,2-Tetrachloroethane-	10.27	84	83091	4.88	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	97.60%
64) 1,2-Dichlorobenzene-d4	11.68	152	94239	4.78	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	95.60%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	119294	4.778	ug/L 98
3) Chloromethane	1.25	50	102328	4.258	ug/L 97
5) Vinyl chloride	1.32	62	115055	4.633	ug/L 98
6) Bromomethane	1.54	94	19373	3.594	ug/L 96
8) Chloroethane	1.60	64	70965	4.710	ug/L 99
9) Trichlorofluoromethane	1.77	101	149972	4.746	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	89734	4.732	ug/L 98
12) 1,1-Dichloroethene	2.14	96	86114	4.677	ug/L 94
13) Acetone	2.21	43	123618	50.442	ug/L 100
14) Carbon disulfide	2.32	76	274323	4.513	ug/L 100
15) Methyl Acetate	2.47	43	31773	4.607	ug/L 98
16) Methylene chloride	2.54	84	95683	4.310	ug/L 97
17) Methyl tert-butyl Ether	2.82	73	211828	4.798	ug/L 97
18) trans-1,2-Dichloroethene	2.79	96	97293	4.935	ug/L 95
19) 1,1-Dichloroethane	3.23	63	167403	4.703	ug/L 98
21) 2-Butanone	4.06	43	268169	50.399	ug/L 97
22) cis-1,2-Dichloroethene	3.97	96	105177	4.701	ug/L 100

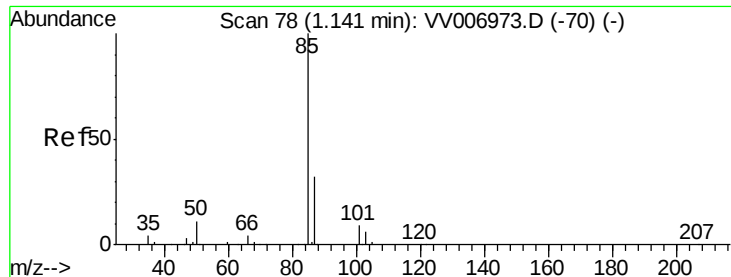
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV081018\
 Data File : VV006988.D
 Acq On : 10 Aug 2018 17:04
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 Misc : 25 mL/MSVOA V/WATER
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 MSVOA_V
 ClientSampleId :
 VSTD00584

Quant Time: Aug 10 23:16:15 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR080918WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Aug 10 23:13:31 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.30	128	46409	5.090	ug/L	93
25) Chloroform	4.43	83	190157	4.883	ug/L	96
27) 1,2-Dichloroethane	5.19	62	117890	4.854	ug/L	97
29) 1,1,1-Trichloroethane	4.66	97	159090	4.797	ug/L	98
30) Cyclohexane	4.72	56	156583	4.536	ug/L	99
31) Carbon tetrachloride	4.88	117	135534	4.873	ug/L	100
33) Benzene	5.15	78	430302	4.994	ug/L	100
34) Trichloroethene	5.96	95	100202	4.849	ug/L	96
35) Methylcyclohexane	6.18	83	152392	4.594	ug/L	99
37) 1,2-Dichloropropane	6.23	63	116058	4.920	ug/L	99
38) Bromodichloromethane	6.56	83	129239	4.822	ug/L	99
39) cis-1,3-Dichloropropene	7.08	75	133891	4.699	ug/L	100
40) 4-Methyl-2-pentanone	7.29	43	604386	47.434	ug/L	99
42) Toluene	7.44	91	427746	5.166	ug/L	99
44) trans-1,3-Dichloropropene	7.70	75	110824	4.738	ug/L	100
45) 1,1,2-Trichloroethane	7.89	97	73626	4.798	ug/L	94
47) Tetrachloroethene	8.02	164	83354	4.975	ug/L	97
48) 2-Hexanone	8.20	43	450812	50.166	ug/L	99
49) Dibromochloromethane	8.30	129	80611	5.008	ug/L	100
50) 1,2-Dibromoethane	8.40	107	63500	4.899	ug/L #	99
51) Chlorobenzene	8.93	112	260751	4.940	ug/L	98
52) Ethylbenzene	9.06	91	406898	4.921	ug/L	99
53) m,p-xylene	9.19	106	151483	4.914	ug/L	99
54) o-xylene	9.59	106	143951	4.929	ug/L	99
55) Styrene	9.61	104	253090	5.141	ug/L	99
56) Isopropylbenzene	9.98	105	378728	4.942	ug/L	100
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	90966	4.877	ug/L	95
59) 1,2,3-Trichloropropane	10.32	75	64017	4.849	ug/L	97
61) Bromoform	9.78	173	42342	4.937	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	177913	4.856	ug/L	97
63) 1,4-Dichlorobenzene	11.32	146	185407	4.937	ug/L	98
65) 1,2-Dichlorobenzene	11.70	146	180404	5.006	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.48	75	11340	4.432	ug/L	99
67) 1,3,5-Trichlorobenzene	12.70	180	137660	4.964	ug/L	98
68) 1,2,4-trichlorobenzene	13.32	180	100285	4.928	ug/L	100
69) Naphthalene	13.56	128	131522	4.500	ug/L	100
70) 1,2,3-Trichlorobenzene	13.80	180	97026	4.946	ug/L	99

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



#2

Dichlorodifluoromethane

Concen: 4.778 ug/L

RT: 1.14 min Scan# 77

Delta R.T. -0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

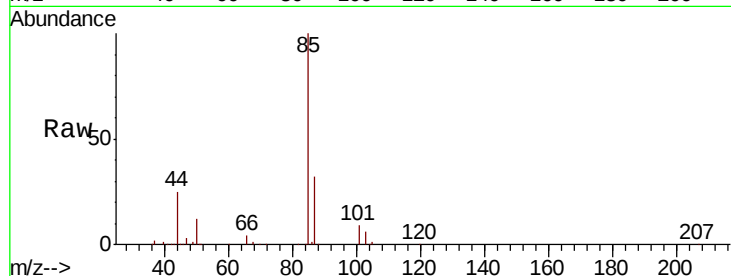
VSTD00584

Tot Ion: 85 Resp: 119294

Ion Ratio Lower Upper

85 100

87 32.7 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VV006973.D (-70) (-)

Ion 87.00 (86.70 to 87.70): VV006973.D (-70) (-)

1.14

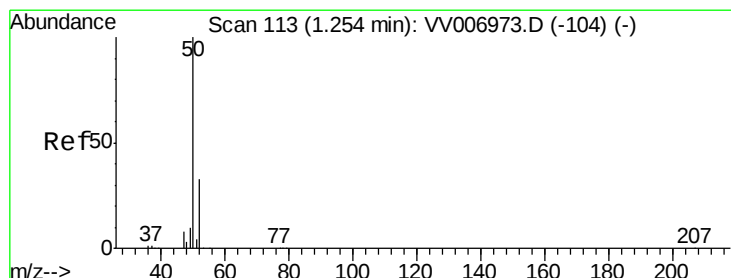
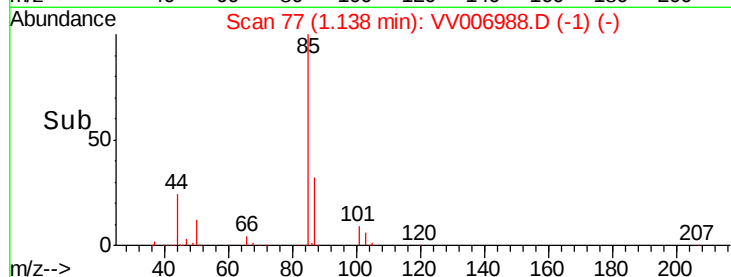
100000

50000

0

Time-->

1.10 1.15 1.20 1.25



#3

Chloromethane

Concen: 4.258 ug/L

RT: 1.25 min Scan# 112

Delta R.T. -0.00 min

Lab File: VV006988.D

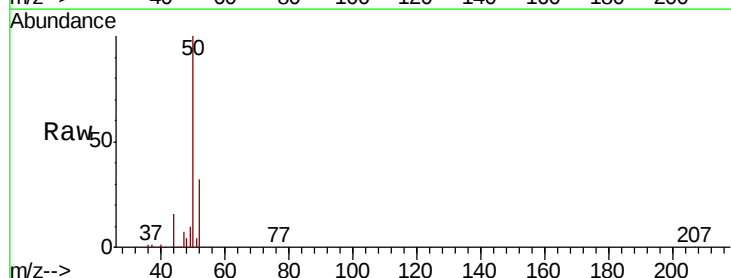
Acq: 10 Aug 2018 17:04

Tgt Ion: 50 Resp: 102328

Ion Ratio Lower Upper

50 100

52 31.7 23.6 43.8



Abundance Ion 50.05 (49.75 to 50.75): VV006973.D (-104) (-)

Ion 52.05 (51.75 to 52.75): VV006973.D (-104) (-)

1.25

100000

80000

60000

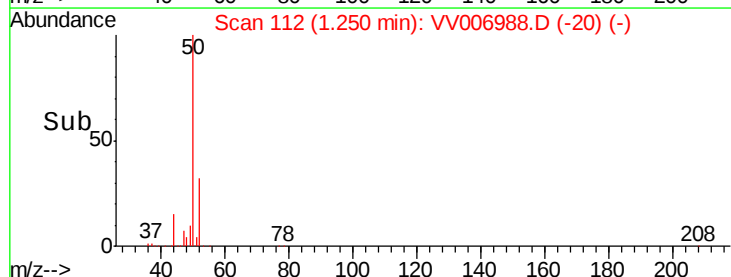
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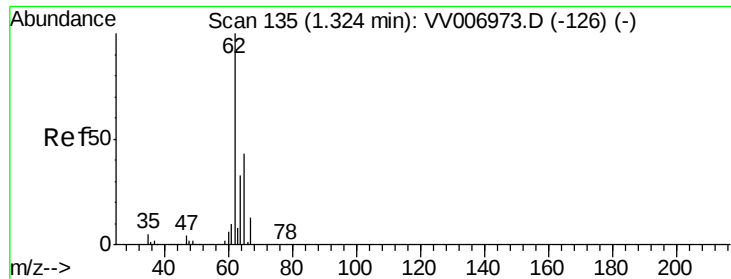
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Time-->

1.20 1.25 1.30





#5

Vinyl chloride

Concen: 4.633 ug/L

RT: 1.32 min Scan# 134

Delta R.T. -0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

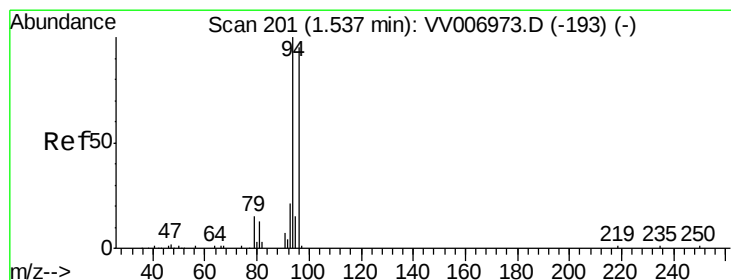
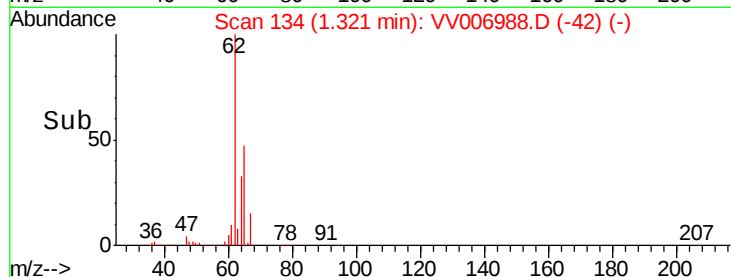
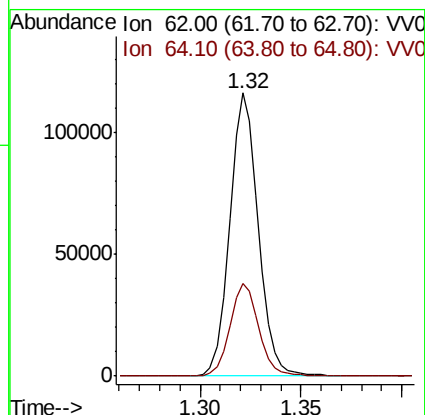
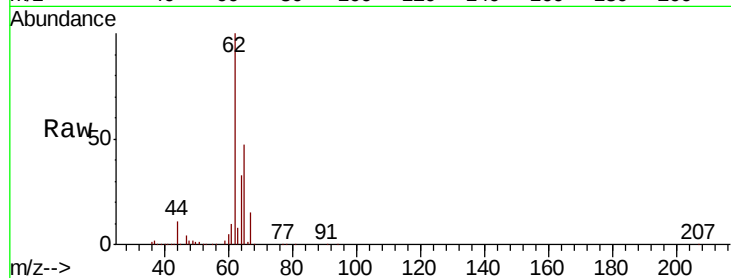
VSTD00584

Tot Ion: 62 Resp: 115055

Ion Ratio Lower Upper

62 100

64 32.7 23.5 43.7



#6

Bromomethane

Concen: 3.594 ug/L

RT: 1.54 min Scan# 201

Delta R.T. -0.00 min

Lab File: VV006988.D

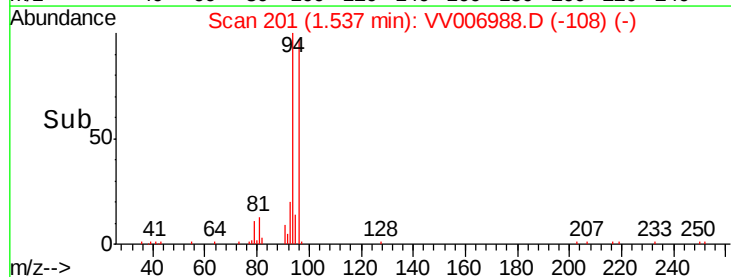
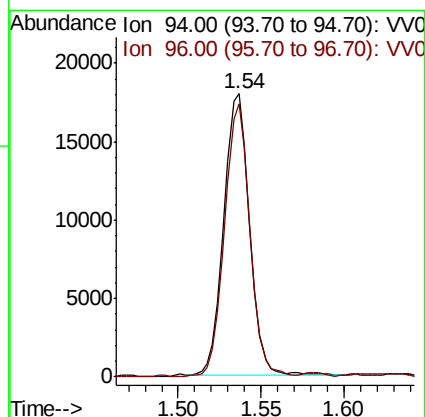
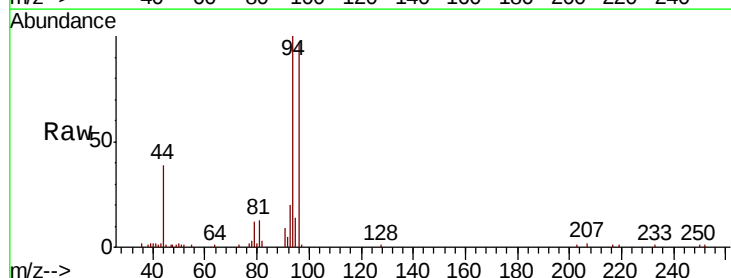
Acq: 10 Aug 2018 17:04

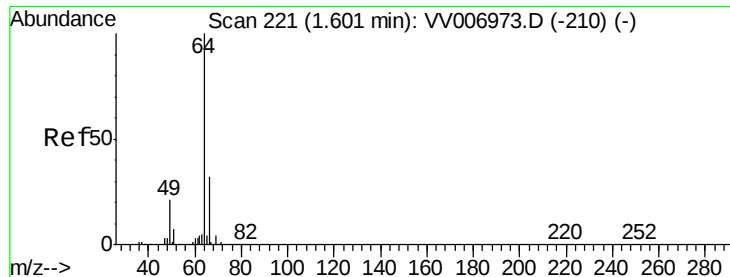
Tgt Ion: 94 Resp: 19373

Ion Ratio Lower Upper

94 100

96 96.6 65.0 120.6





#8

Chloroethane

Concen: 4.710 ug/L

RT: 1.60 min Scan# 221

Delta R.T. -0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

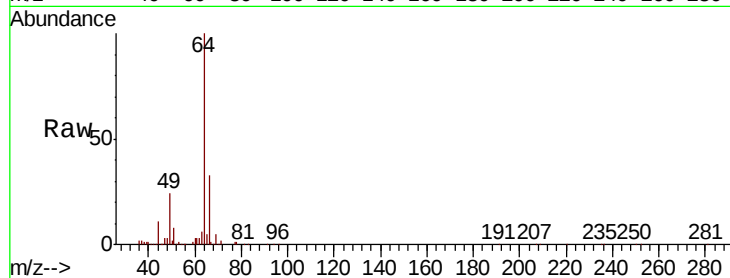
VSTD00584

Tot Ion: 64 Resp: 70965

Ion Ratio Lower Upper

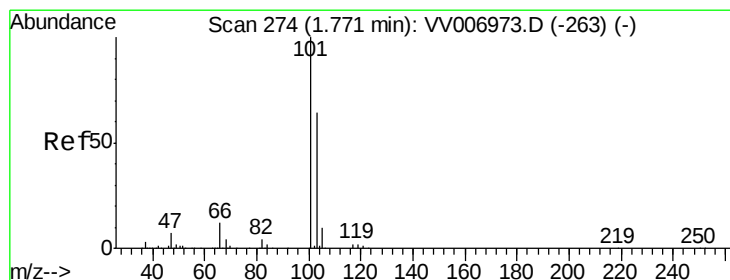
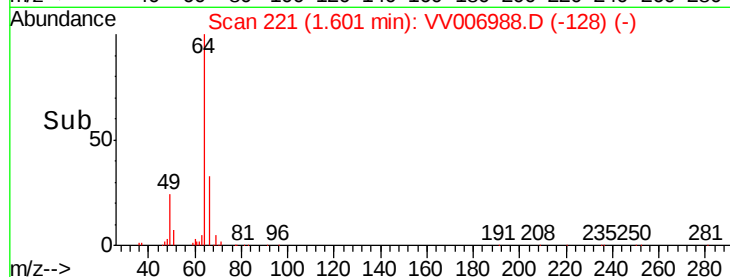
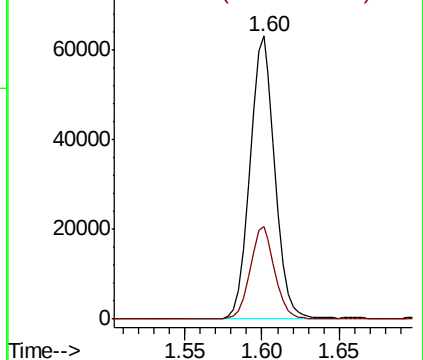
64 100

66 32.9 22.6 42.0



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0



#9

Trichlorofluoromethane

Concen: 4.746 ug/L

RT: 1.77 min Scan# 274

Delta R.T. -0.00 min

Lab File: VV006988.D

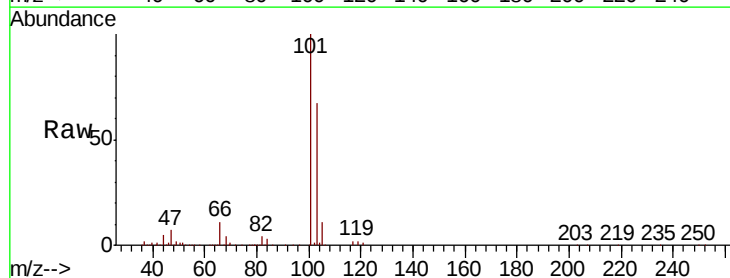
Acq: 10 Aug 2018 17:04

Tgt Ion:101 Resp: 149972

Ion Ratio Lower Upper

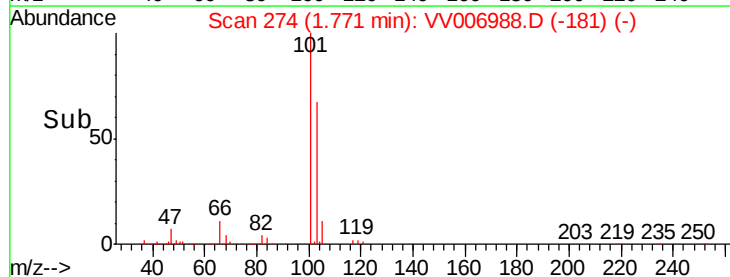
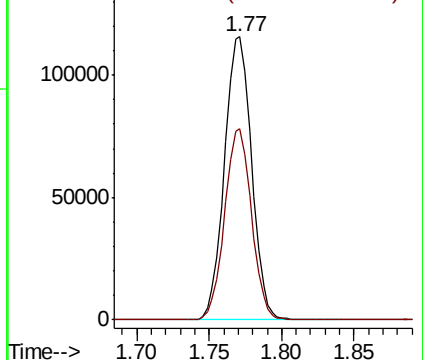
101 100

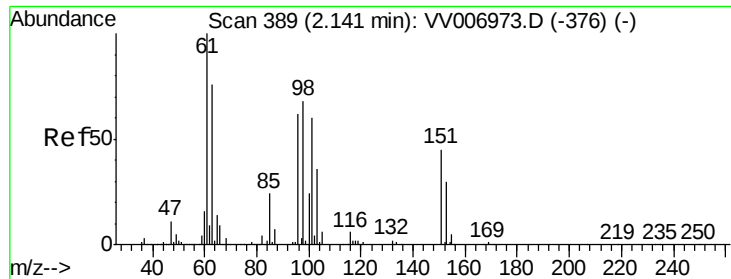
103 66.7 52.7 79.1



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#10

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

Concen: 4.732 ug/L

RT: 2.14 min Scan# 389

Delta R.T. -0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

VSTD00584

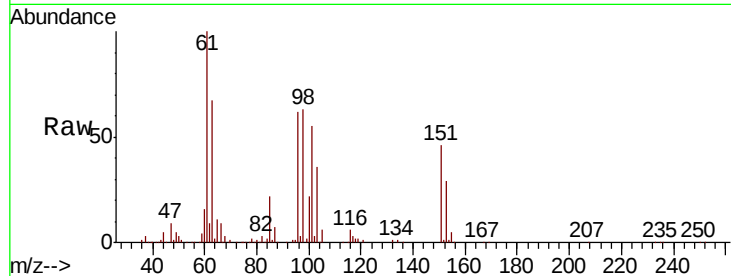
Tot Ion:101 Resp: 89734

Ion Ratio Lower Upper

101 100

85 40.2 33.9 50.9

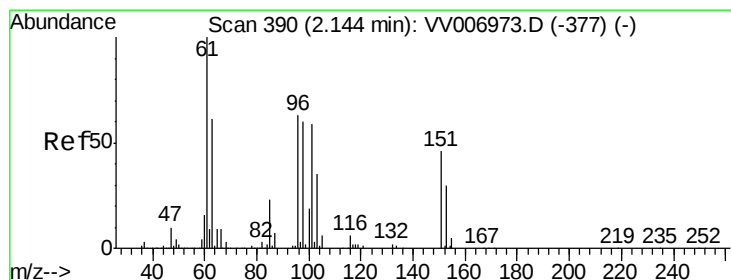
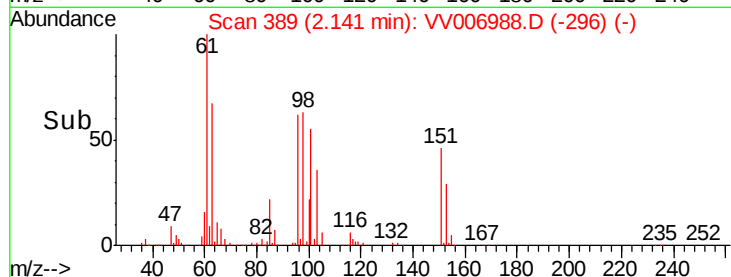
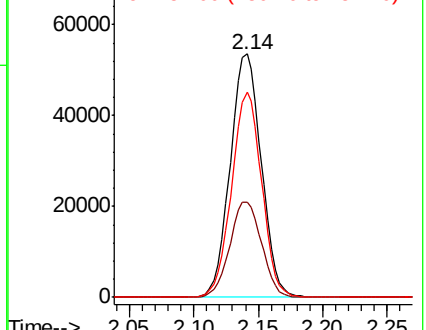
151 81.5 64.1 96.1



Abundance Ion 101.00 (100.70 to 101.70): VV006973.D (-376) (-)

Ion 85.00 (84.70 to 85.70): VV006973.D (-376) (-)

Ion 151.00 (150.70 to 151.70): VV006973.D (-376) (-)



#12

1,1-Dichloroethene

Concen: 4.677 ug/L

RT: 2.14 min Scan# 389

Delta R.T. -0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

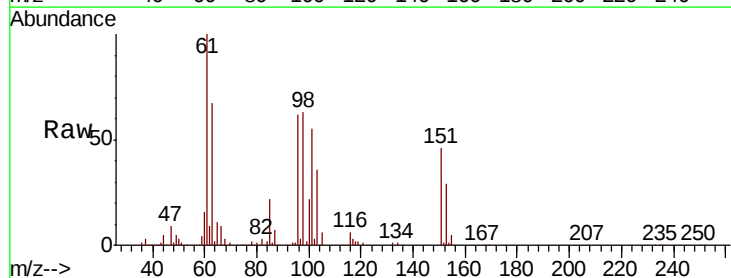
Tgt Ion: 96 Resp: 86114

Ion Ratio Lower Upper

96 100

61 160.0 111.6 207.4

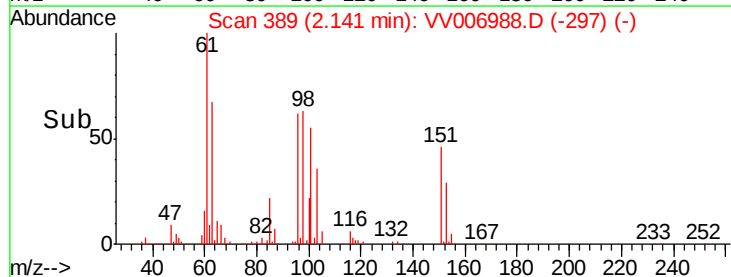
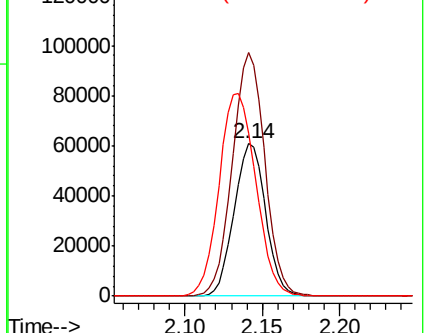
63 107.1 84.9 157.7

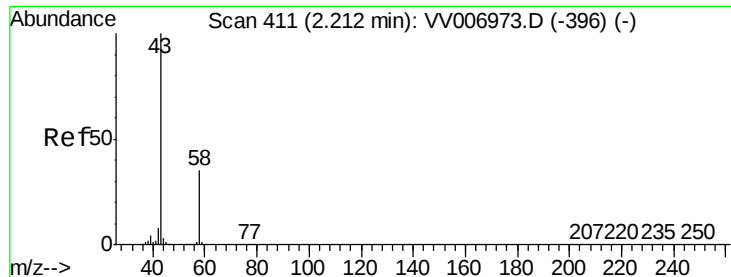


Abundance Ion 96.00 (95.70 to 96.70): VV006973.D (-377) (-)

Ion 61.05 (60.75 to 61.75): VV006973.D (-377) (-)

Ion 63.00 (62.70 to 63.70): VV006973.D (-377) (-)





#13

Acetone

Concen: 50.442 ug/L

RT: 2.21 min Scan# 411

Delta R.T. -0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

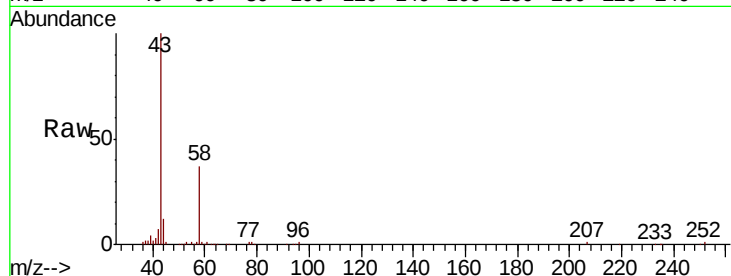
VSTD00584

Tot Ion: 43 Resp: 123618

Ion Ratio Lower Upper

43 100

58 35.7 0.0 71.4



Abundance Ion 43.05 (42.75 to 43.75): VV006973.D (-396) (-)

Ion 58.05 (57.75 to 58.75): VV006973.D (-396) (-)

2.21

50000

40000

30000

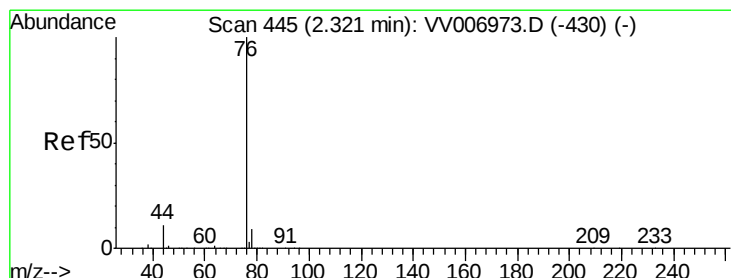
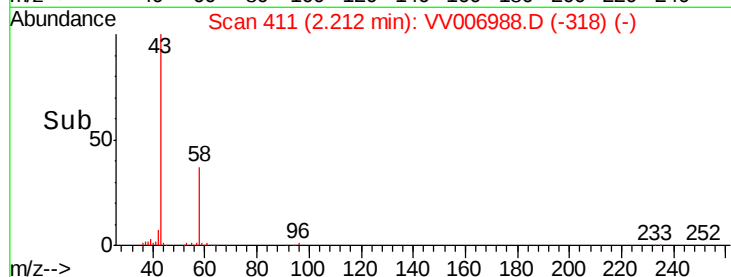
20000

10000

0

Time-->

2.10 2.20 2.30 2.40



#14

Carbon disulfide

Concen: 4.513 ug/L

RT: 2.32 min Scan# 444

Delta R.T. -0.00 min

Lab File: VV006988.D

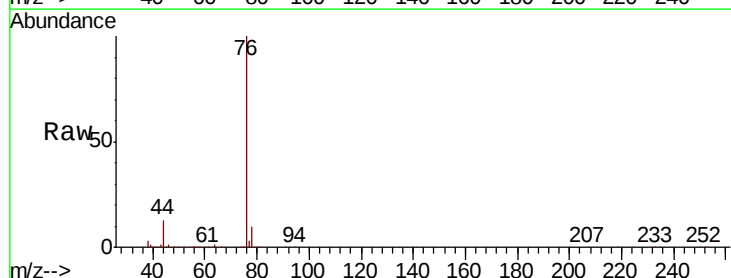
Acq: 10 Aug 2018 17:04

Tgt Ion: 76 Resp: 274323

Ion Ratio Lower Upper

76 100

78 9.6 7.6 11.4



Abundance Ion 76.05 (75.75 to 76.75): VV006973.D (-430) (-)

Ion 78.00 (77.70 to 78.70): VV006973.D (-430) (-)

2.32

200000

150000

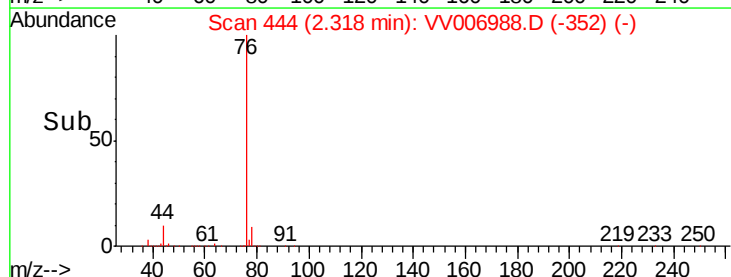
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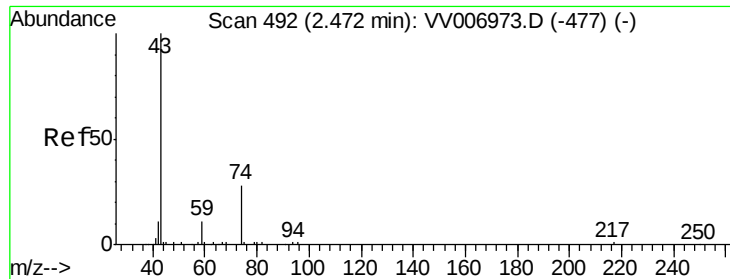
50000

0

Time-->

2.25 2.30 2.35 2.40

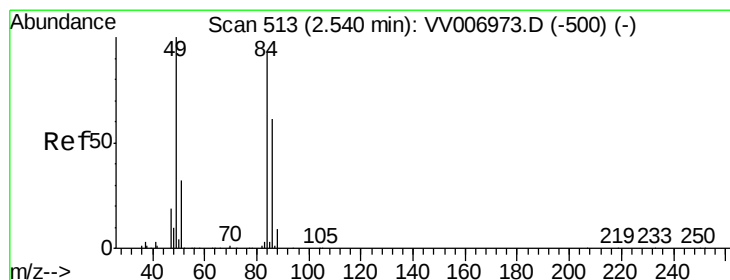
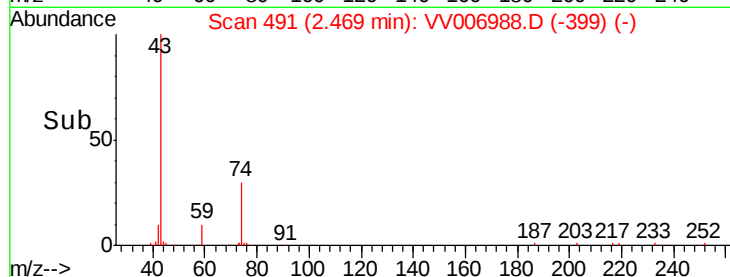
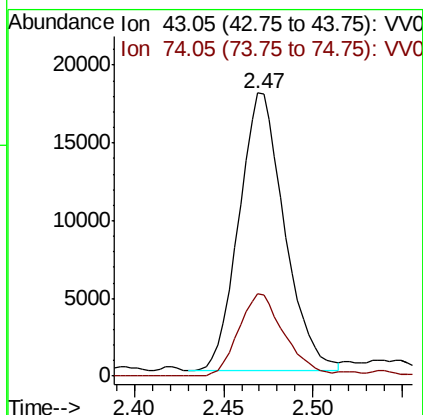
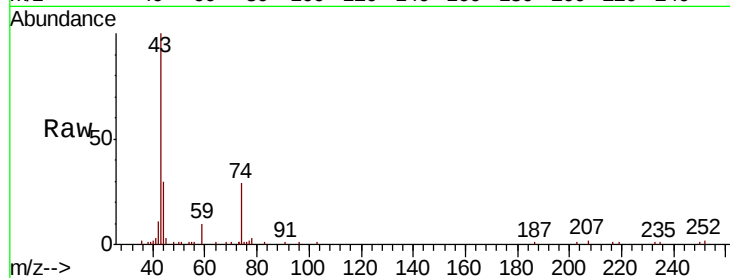




#15
Methvl Acetate
Concen: 4.607 ug/L
RT: 2.47 min Scan# 491
Delta R.T. -0.00 min
Lab File: VV006988.D
Acq: 10 Aug 2018 17:04

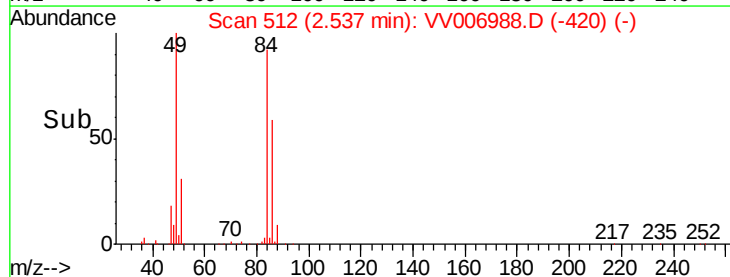
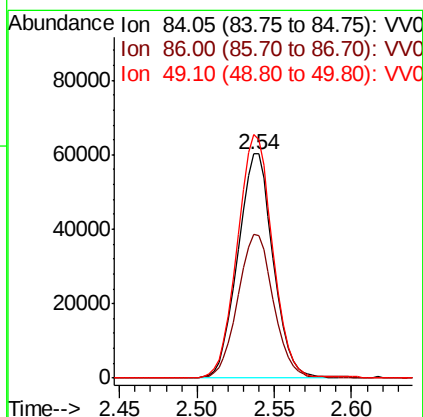
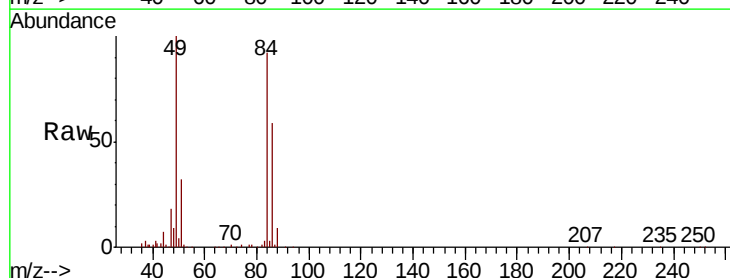
Instrument :
MSVOA_V
ClientSampleId :
VSTD00584

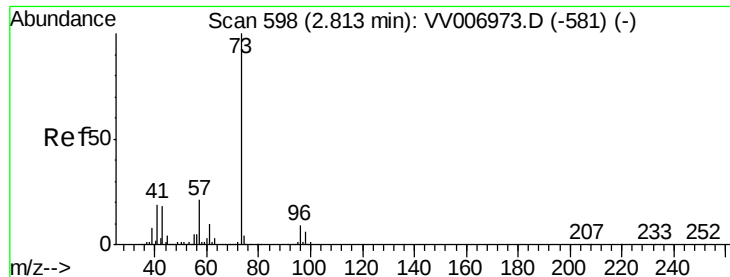
Tot Ion: 43 Resp: 31773
Ion Ratio Lower Upper
43 100
74 29.7 24.6 37.0



#16
Methylene chloride
Concen: 4.310 ug/L
RT: 2.54 min Scan# 512
Delta R.T. -0.00 min
Lab File: VV006988.D
Acq: 10 Aug 2018 17:04

Tgt Ion: 84 Resp: 95683
Ion Ratio Lower Upper
84 100
86 63.9 45.7 84.9
49 108.6 78.8 146.4



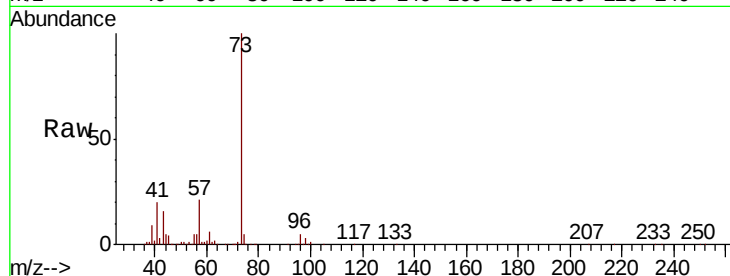


#17

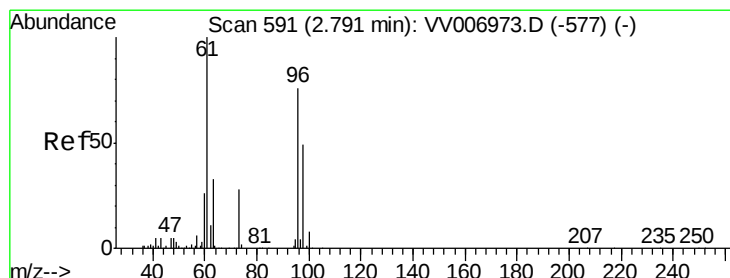
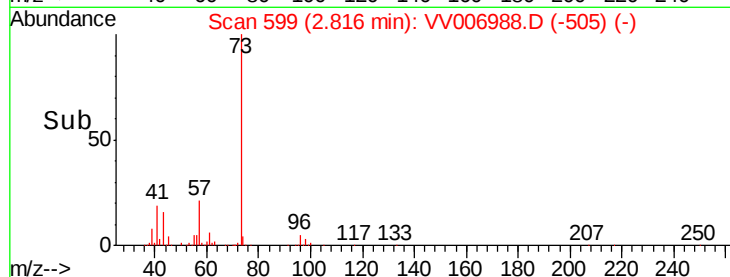
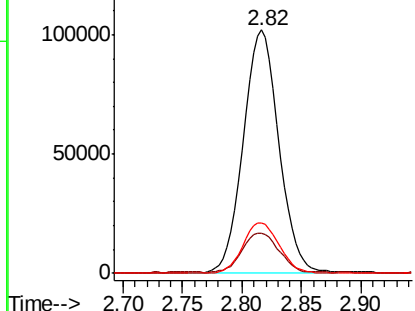
Methvl tert-butvl Ether
 Concen: 4.798 ug/L
 RT: 2.82 min Scan# 599
 Delta R.T. 0.00 min
 Lab File: VV006988.D
 Acq: 10 Aug 2018 17:04

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00584

Tot Ion:	73	Resp:	211828
Ion	Ratio	Lower	Upper
73	100		
43	16.8	14.4	21.6
57	21.1	17.9	26.9



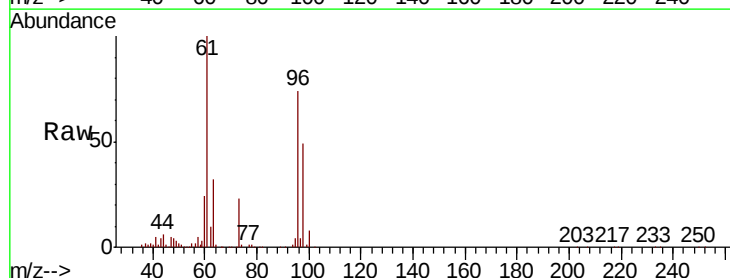
Abundance Ion 73.10 (72.80 to 73.80): VV0
 Ion 43.05 (42.75 to 43.75): VV0
 Ion 57.10 (56.80 to 57.80): VV0



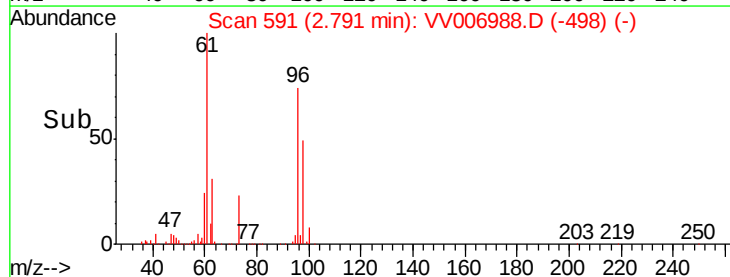
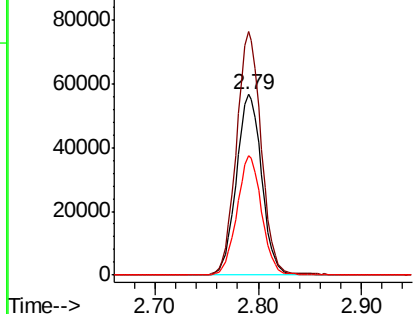
#18

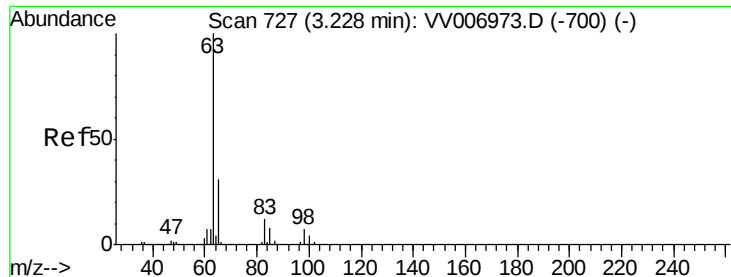
trans-1,2-Dichloroethene
 Concen: 4.935 ug/L
 RT: 2.79 min Scan# 591
 Delta R.T. -0.00 min
 Lab File: VV006988.D
 Acq: 10 Aug 2018 17:04

Tgt Ion:	96	Resp:	97293
Ion	Ratio	Lower	Upper
96	100		
61	135.0	91.1	169.3
98	66.4	43.5	80.9



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





#19

1,1-Dichloroethane

Concen: 4.703 ug/L

RT: 3.23 min Scan# 728

Delta R.T. 0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

VSTD00584

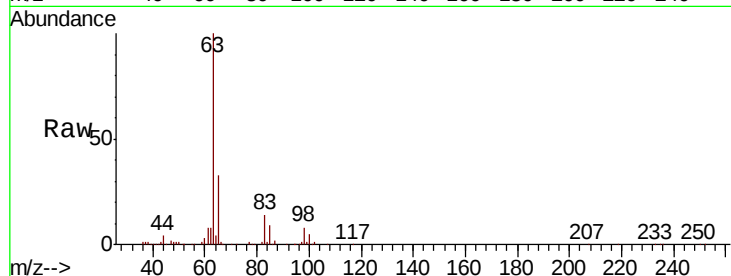
Tot Ion: 63 Resp: 167403

Ion Ratio Lower Upper

63 100

65 32.6 21.7 40.3

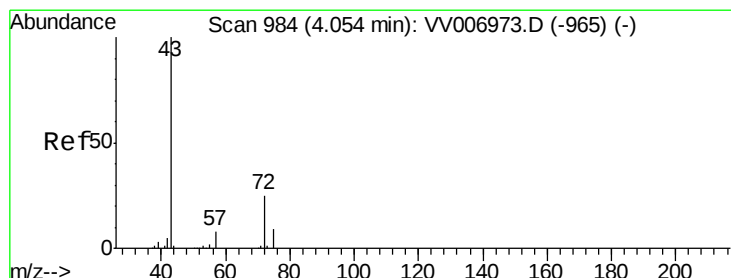
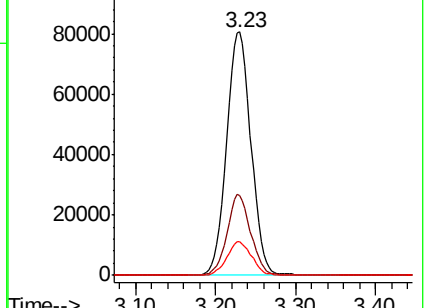
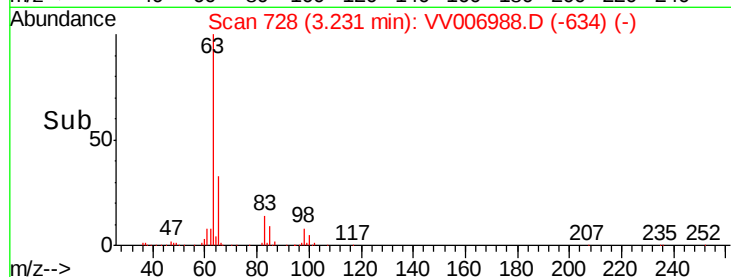
83 13.9 10.0 18.6



Abundance Ion 63.10 (62.80 to 63.80): VV006973.D (-700) (-)

Ion 65.10 (64.80 to 65.80): VV006973.D (-700) (-)

Ion 83.05 (82.75 to 83.75): VV006973.D (-700) (-)



#21

2-Butanone

Concen: 50.399 ug/L

RT: 4.06 min Scan# 985

Delta R.T. 0.00 min

Lab File: VV006988.D

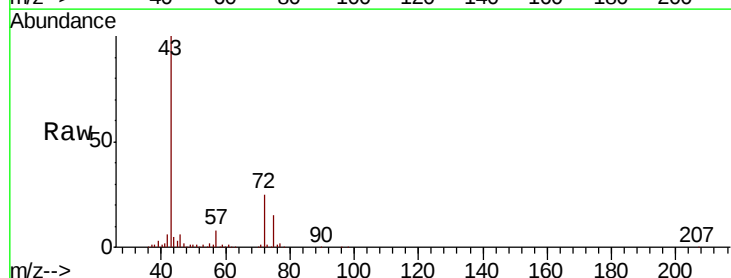
Acq: 10 Aug 2018 17:04

Tgt Ion: 43 Resp: 268169

Ion Ratio Lower Upper

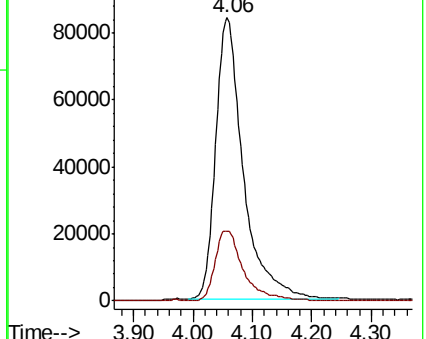
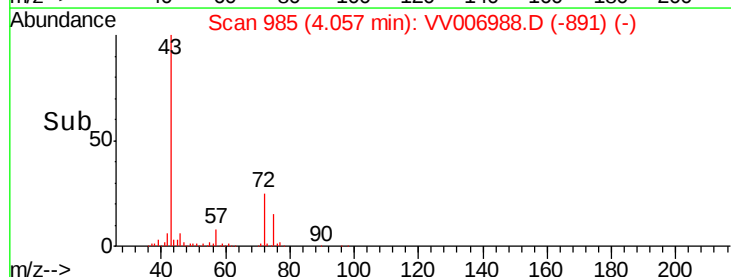
43 100

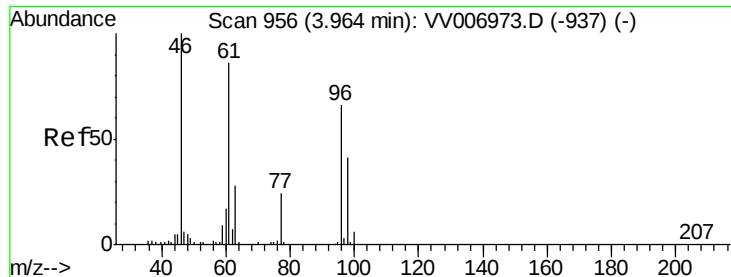
72 26.1 12.4 37.2



Abundance Ion 43.05 (42.75 to 43.75): VV006973.D (-965) (-)

Ion 72.10 (71.80 to 72.80): VV006973.D (-965) (-)





#22

cis-1,2-Dichloroethene

Concen: 4.701 ug/L

RT: 3.97 min Scan# 957

Delta R.T. 0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

VSTD00584

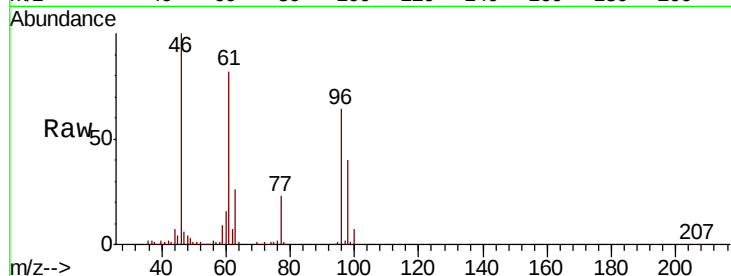
Tot Ion: 96 Resp: 105177

Ion Ratio Lower Upper

96 100

61 129.5 91.1 169.1

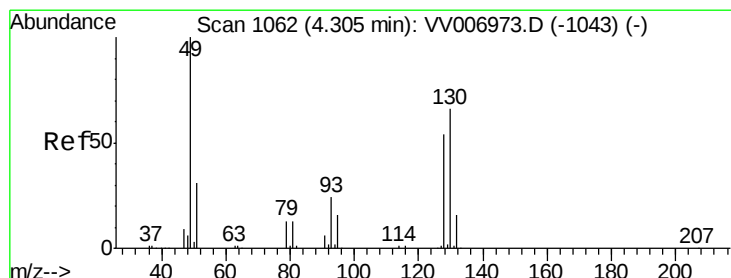
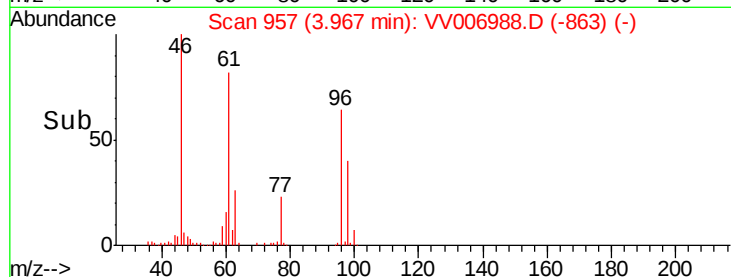
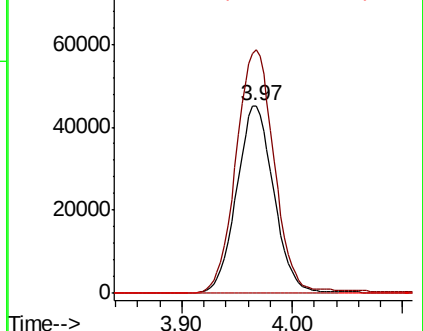
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV006973.D (-937) (-)

Ion 61.05 (60.75 to 61.75): VV006973.D (-937) (-)

Ion 68.15 (67.85 to 68.85): VV006973.D (-937) (-)



#23

Bromochloromethane

Concen: 5.090 ug/L

RT: 4.30 min Scan# 1062

Delta R.T. -0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

Tgt Ion: 128 Resp: 46409

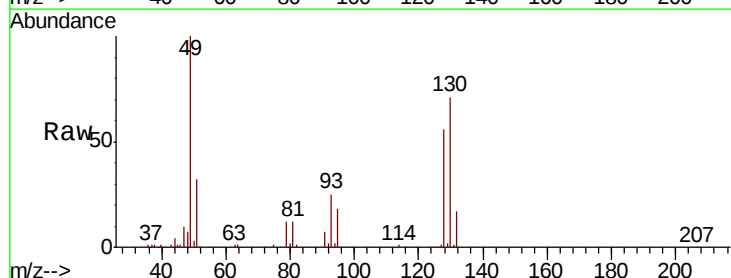
Ion Ratio Lower Upper

128 100

49 179.7 138.6 257.4

130 126.7 90.0 167.2

51 57.7 46.9 70.3

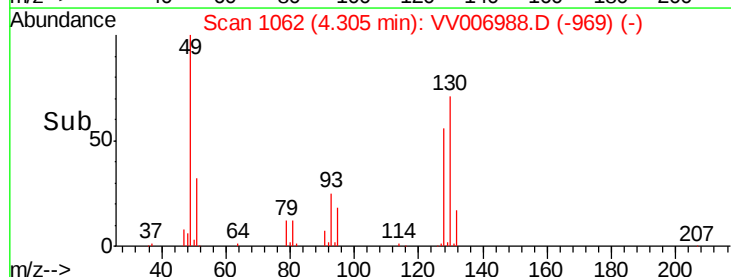
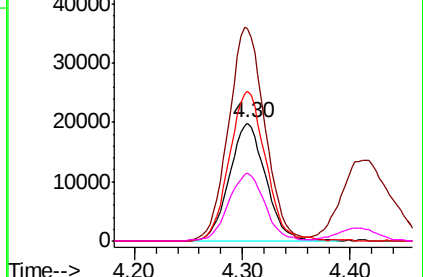


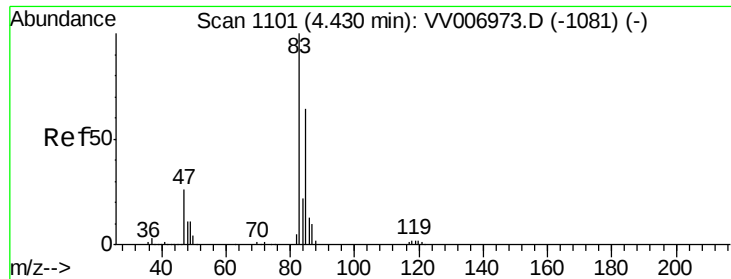
Abundance Ion 127.90 (127.60 to 128.60): VV006973.D (-1043) (-)

Ion 49.10 (48.80 to 49.80): VV006973.D (-1043) (-)

Ion 129.95 (129.65 to 130.65): VV006973.D (-1043) (-)

Ion 51.05 (50.75 to 51.75): VV006973.D (-1043) (-)





#25

Chloroform

Concen: 4.883 ug/L

RT: 4.43 min Scan# 1102

Delta R.T. 0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

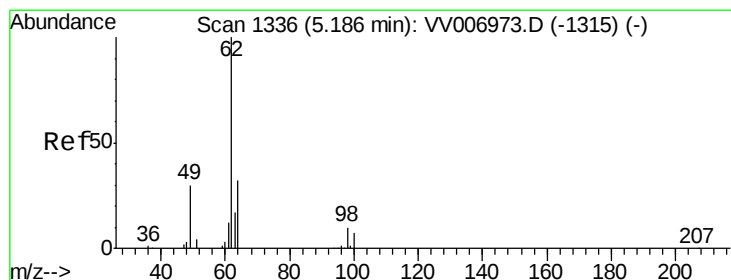
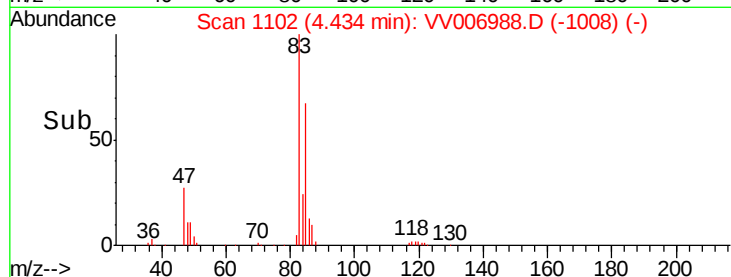
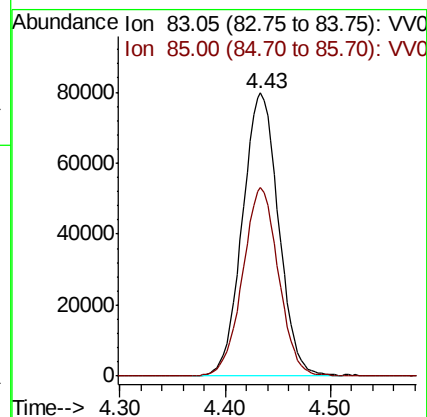
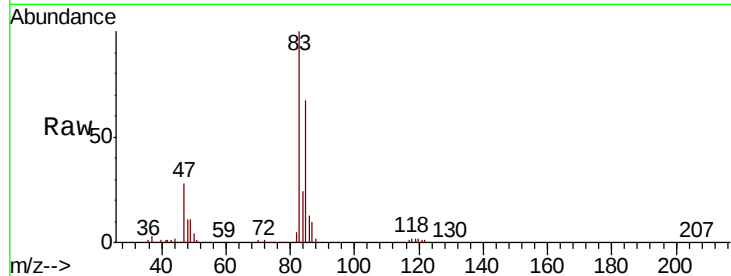
VSTD00584

Tot Ion: 83 Resp: 190157

Ion Ratio Lower Upper

83 100

85 66.7 44.7 82.9



#27

1,2-Dichloroethane

Concen: 4.854 ug/L

RT: 5.19 min Scan# 1337

Delta R.T. 0.00 min

Lab File: VV006988.D

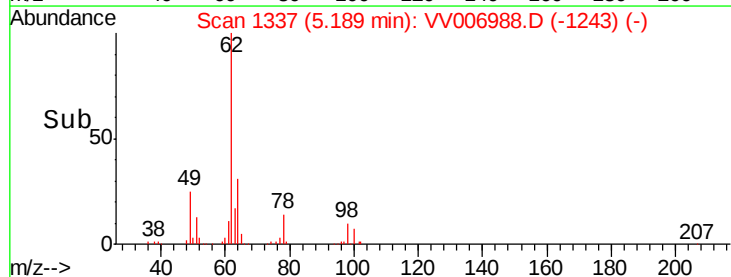
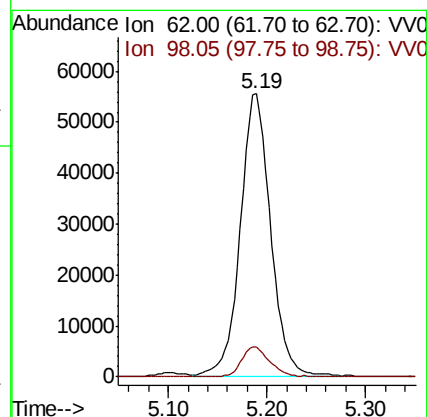
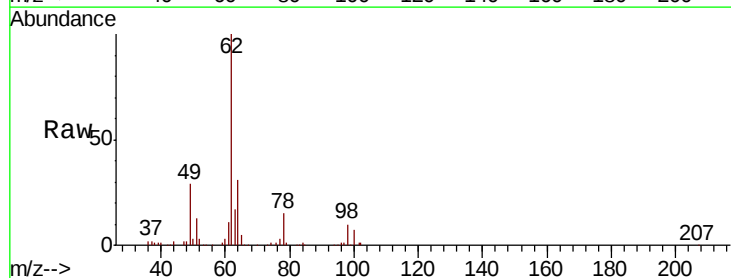
Acq: 10 Aug 2018 17:04

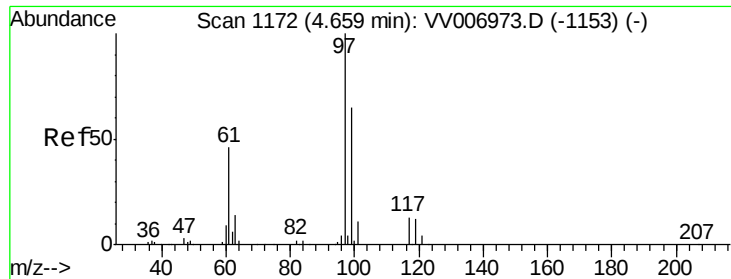
Tgt Ion: 62 Resp: 117890

Ion Ratio Lower Upper

62 100

98 10.5 7.6 11.4

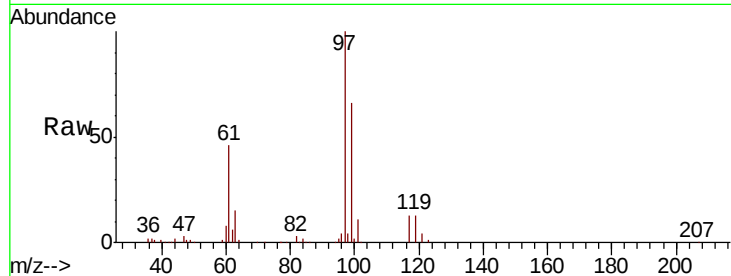




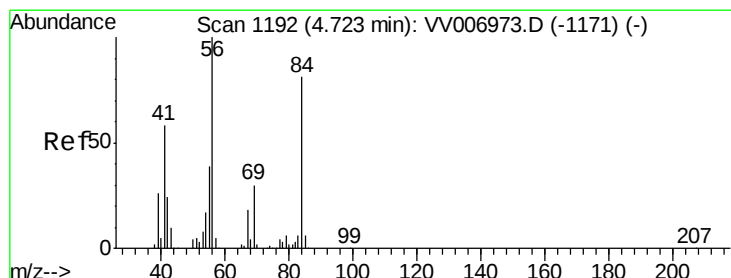
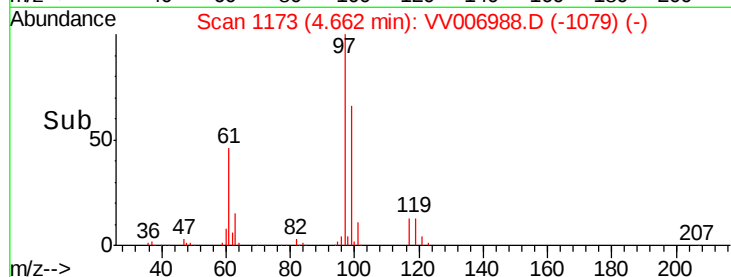
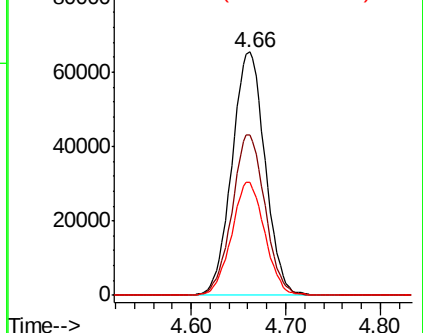
#29
 1,1,1-Trichloroethane
 Concen: 4.797 ug/L
 RT: 4.66 min Scan# 1173
 Delta R.T. 0.00 min
 Lab File: VV006988.D
 Acq: 10 Aug 2018 17:04

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00584

Tot Ion	97	Resp	159090
Ion Ratio	Lower	Upper	
97	100		
99	65.6	51.0	76.6
61	46.9	36.6	54.8

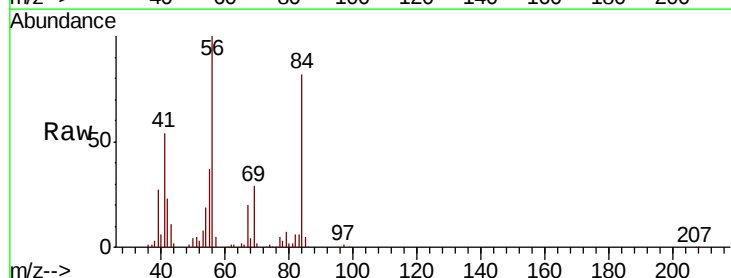


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 61.05 (60.75 to 61.75): VV0

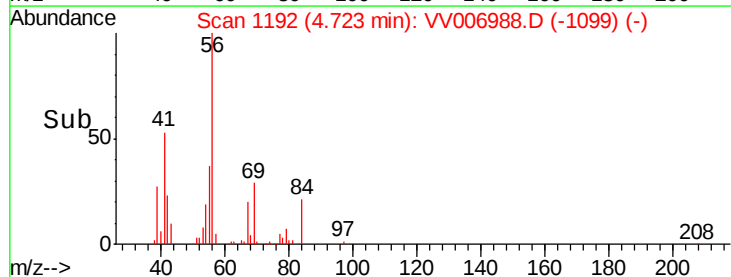
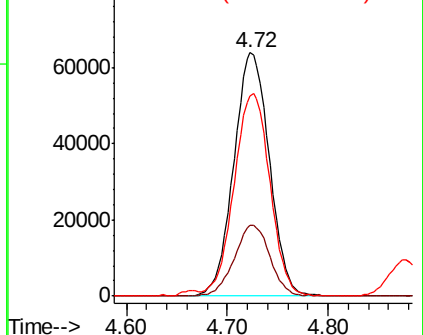


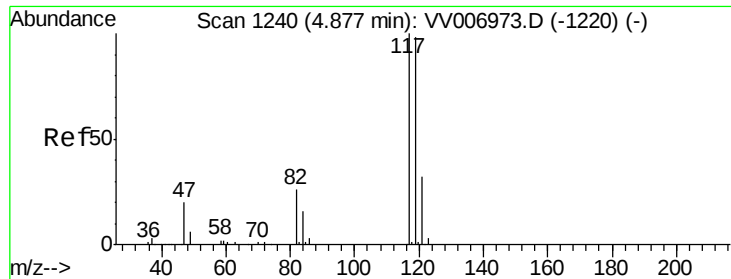
#30
 Cyclohexane
 Concen: 4.536 ug/L
 RT: 4.72 min Scan# 1192
 Delta R.T. -0.00 min
 Lab File: VV006988.D
 Acq: 10 Aug 2018 17:04

Tgt Ion	56	Resp	156583
Ion Ratio	Lower	Upper	
56	100		
69	29.2	23.8	35.6
84	83.6	67.9	101.9



Abundance Ion 56.10 (55.80 to 56.80): VV0
 Ion 69.15 (68.85 to 69.85): VV0
 Ion 84.15 (83.85 to 84.85): VV0

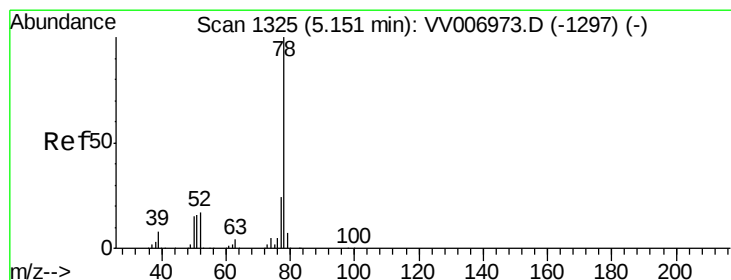
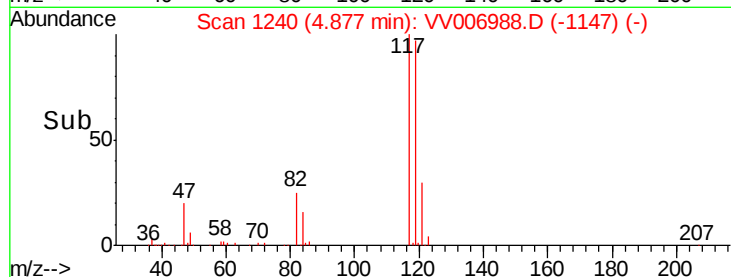
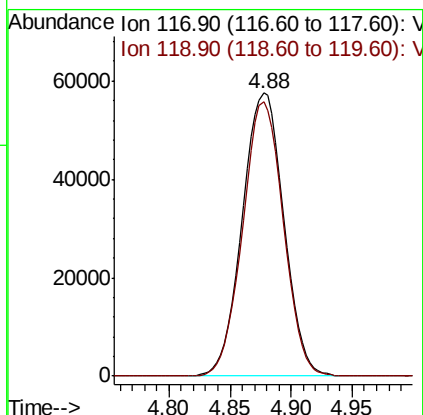
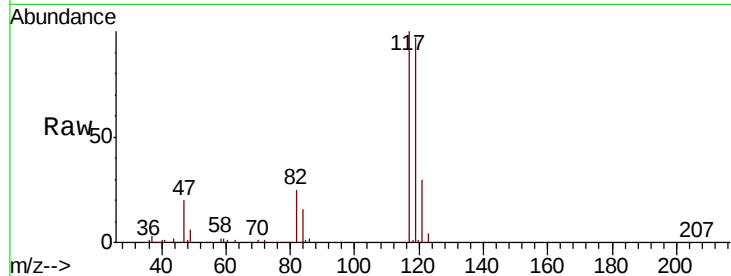




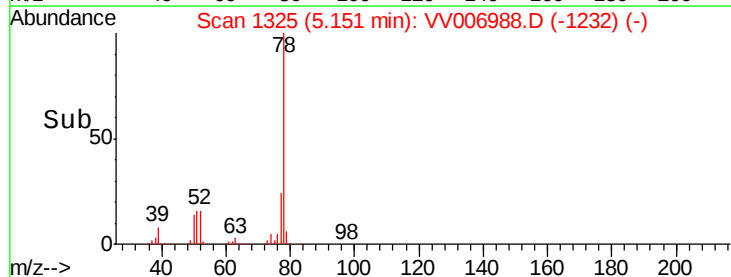
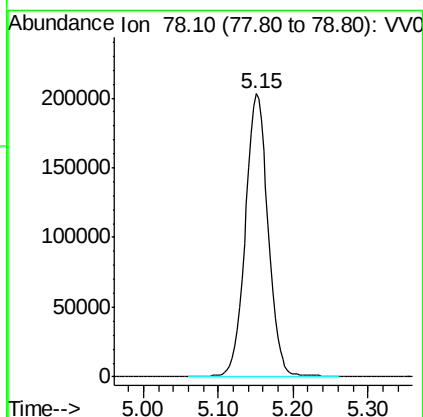
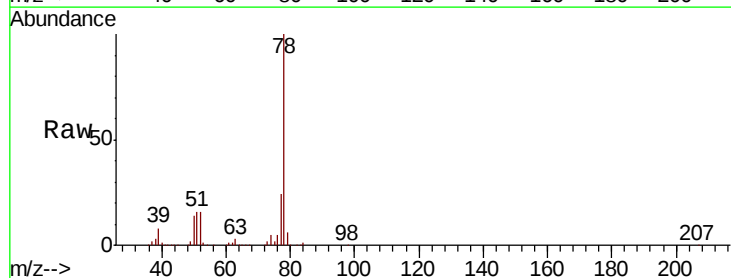
#31
Carbon tetrachloride
Concen: 4.873 ug/L
RT: 4.88 min Scan# 1240
Delta R.T. -0.00 min
Lab File: VV006988.D
Acq: 10 Aug 2018 17:04

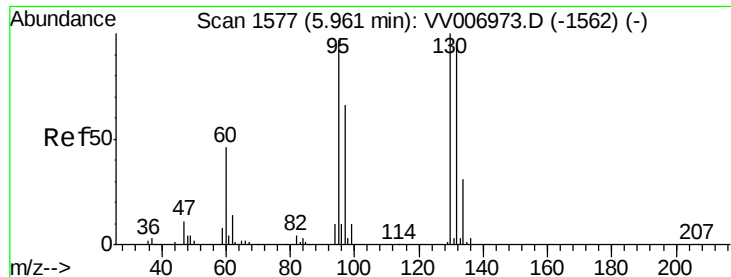
Instrument :
MSVOA_V
ClientSampleId :
VSTD00584

Tot Ion:117 Resp: 135534
Ion Ratio Lower Upper
117 100
119 95.0 76.2 114.4



#33
Benzene
Concen: 4.994 ug/L
RT: 5.15 min Scan# 1325
Delta R.T. -0.00 min
Lab File: VV006988.D
Acq: 10 Aug 2018 17:04
Tgt Ion: 78 Resp: 430302





#34

Trichloroethene

Concen: 4.849 ug/L

RT: 5.96 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

VSTD00584

Tot Ion: 95 Resp: 100202

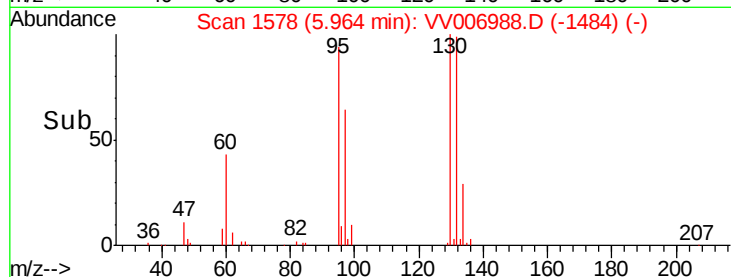
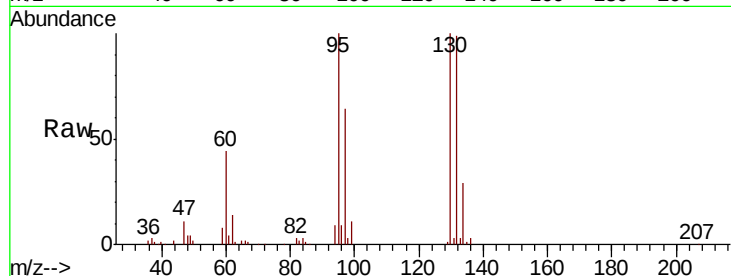
Ion Ratio Lower Upper

95 100

97 63.8 44.8 83.2

132 98.7 65.5 121.6

130 99.8 66.4 123.4

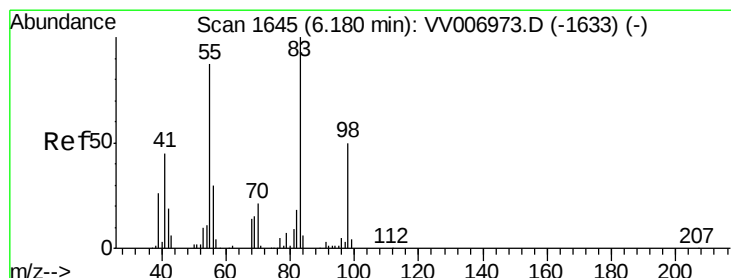
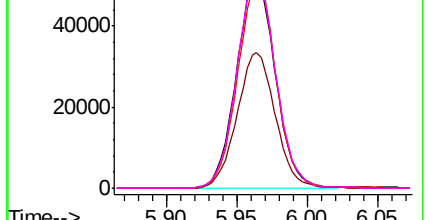


Abundance Ion 95.00 (94.70 to 95.70): VV006973.D (-1562) (-)

Ion 96.95 (96.65 to 97.65): VV006973.D (-1562) (-)

Ion 131.95 (131.65 to 132.65): VV006973.D (-1562) (-)

Ion 129.95 (129.65 to 130.65): VV006973.D (-1562) (-)



#35

Methylcyclohexane

Concen: 4.594 ug/L

RT: 6.18 min Scan# 1645

Delta R.T. -0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

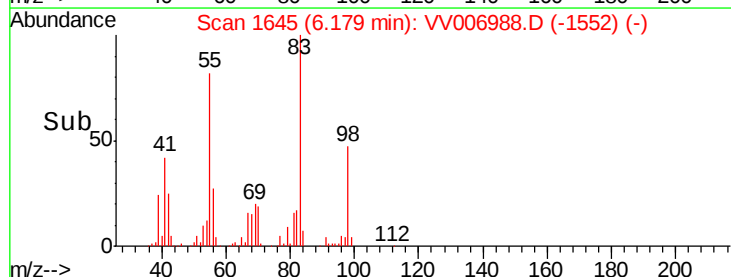
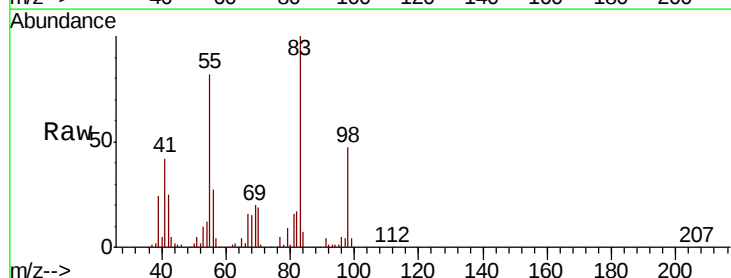
Tgt Ion: 83 Resp: 152392

Ion Ratio Lower Upper

83 100

55 84.0 68.1 102.1

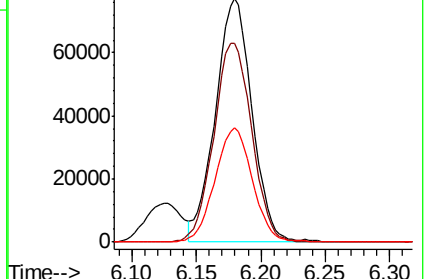
98 48.0 37.9 56.9

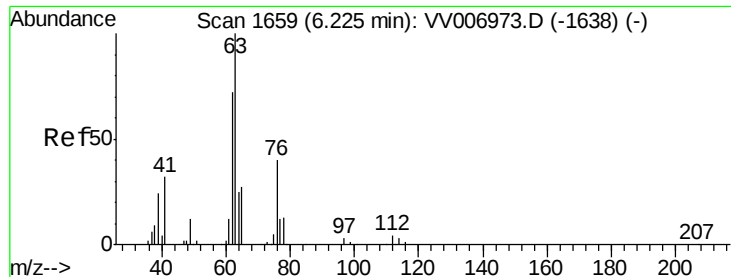


Abundance Ion 83.15 (82.85 to 83.85): VV006973.D (-1633) (-)

Ion 55.10 (54.80 to 55.80): VV006973.D (-1633) (-)

Ion 98.15 (97.85 to 98.85): VV006973.D (-1633) (-)





#37

1,2-Dichloropropane

Concen: 4.920 ug/L

RT: 6.23 min Scan# 1660

Delta R.T. 0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

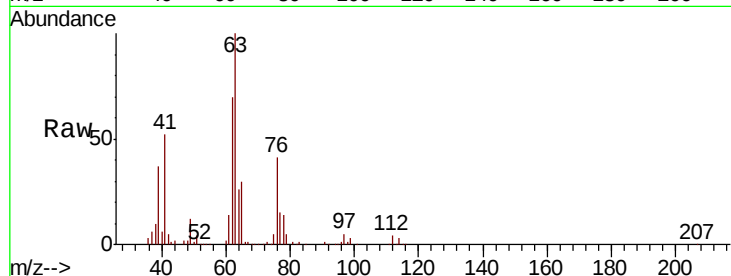
VSTD00584

Tot Ion: 63 Resp: 116058

Ion Ratio Lower Upper

63 100

112 4.7 3.5 5.3



Abundance Ion 63.10 (62.80 to 63.80): VV006973.D (-1638) (-)

Ion 112.10 (111.80 to 112.80): VV006973.D (-1638) (-)

6.23

60000

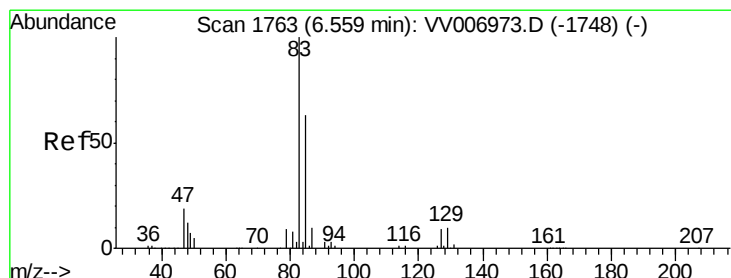
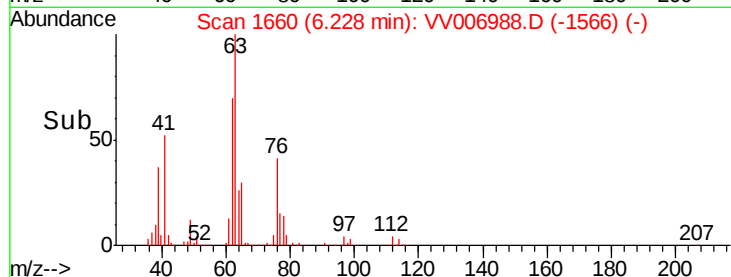
40000

20000

0

6.10 6.15 6.20 6.25 6.30

Time-->



#38

Bromodichloromethane

Concen: 4.822 ug/L

RT: 6.56 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

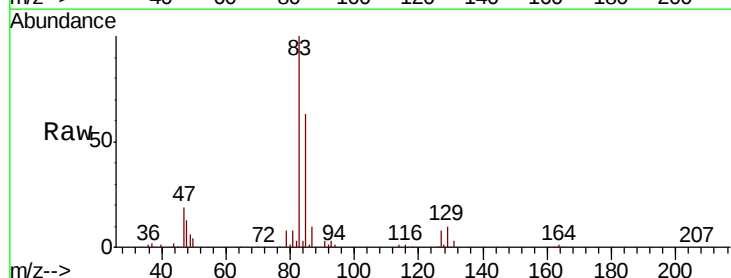
Tgt Ion: 83 Resp: 129239

Ion Ratio Lower Upper

83 100

85 63.2 43.8 81.4

127 7.9 6.6 10.0



Abundance Ion 82.95 (82.65 to 83.65): VV006973.D (-1748) (-)

Ion 85.00 (84.70 to 85.70): VV006973.D (-1748) (-)

Ion 126.90 (126.60 to 127.60): VV006973.D (-1748) (-)

6.56

80000

60000

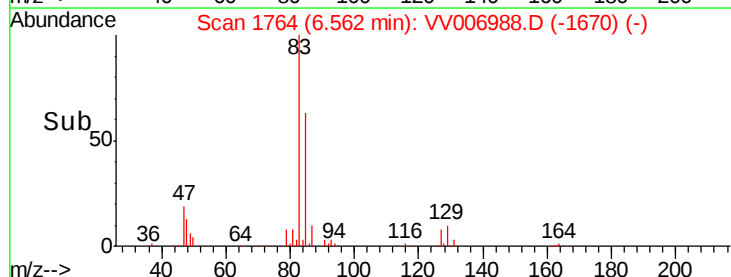
40000

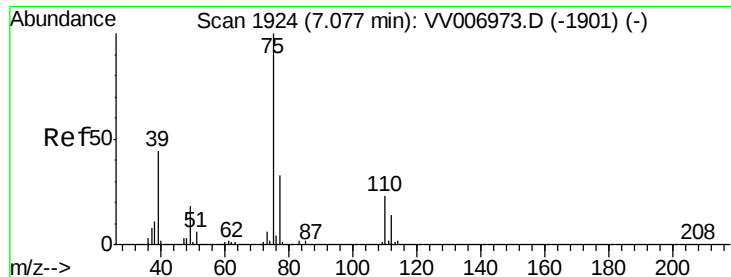
20000

0

6.50 6.55 6.60

Time-->

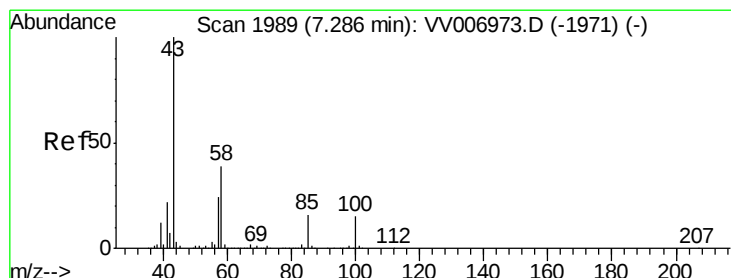
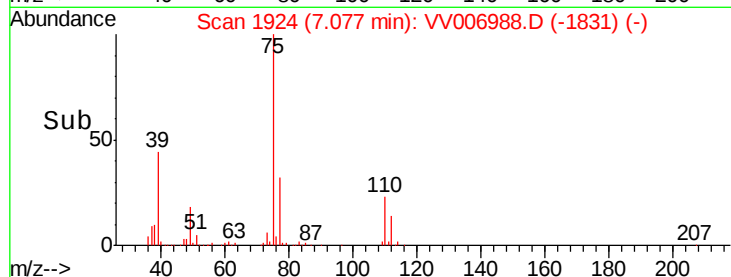
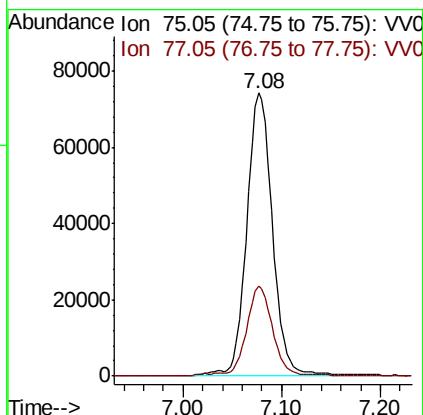
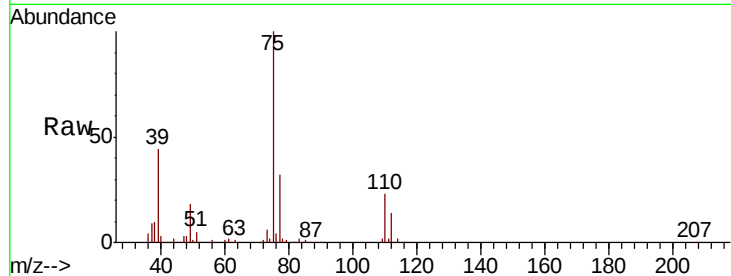




#39
 cis-1,3-Dichloropropene
 Concen: 4.699 ug/L
 RT: 7.08 min Scan# 1924
 Delta R.T. -0.00 min
 Lab File: VV006988.D
 Acq: 10 Aug 2018 17:04

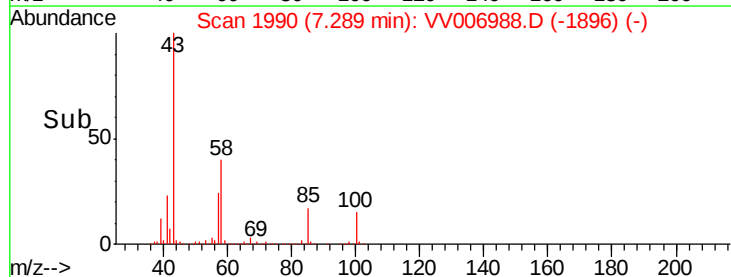
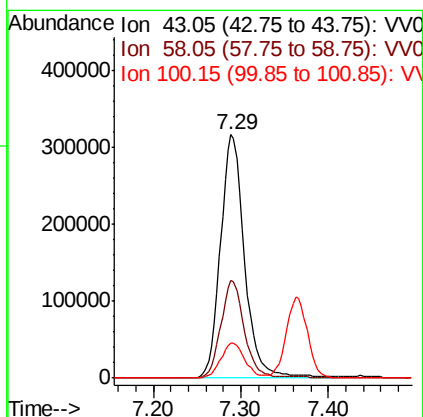
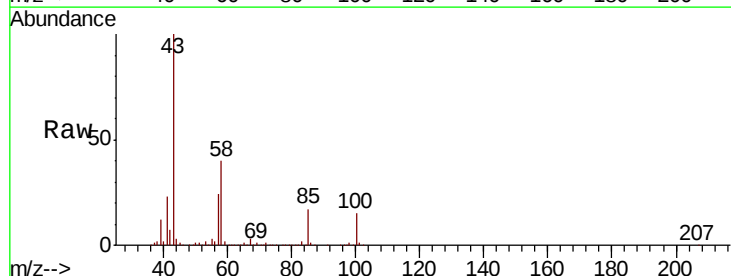
Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00584

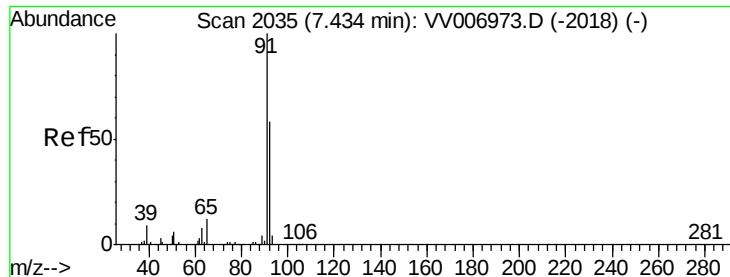
Tot Ion: 75 Resp: 133891
 Ion Ratio Lower Upper
 75 100
 77 31.7 22.0 40.8



#40
 4-Methyl-2-pentanone
 Concen: 47.434 ug/L
 RT: 7.29 min Scan# 1990
 Delta R.T. 0.00 min
 Lab File: VV006988.D
 Acq: 10 Aug 2018 17:04

Tgt Ion: 43 Resp: 604386
 Ion Ratio Lower Upper
 43 100
 58 39.0 30.7 46.1
 100 14.4 11.2 16.8





#42

Toluene

Concen: 5.166 ug/L

RT: 7.44 min Scan# 2036

Delta R.T. 0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

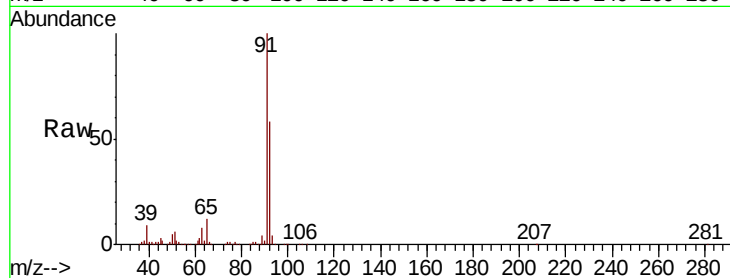
VSTD00584

Tot Ion: 91 Resp: 427746

Ion Ratio Lower Upper

91 100

92 57.9 40.2 74.6



Abundance Ion 91.15 (90.85 to 91.85): VV006973.D (-2018) (-)

Ion 92.15 (91.85 to 92.85): VV006973.D (-2018) (-)

7.44

250000

200000

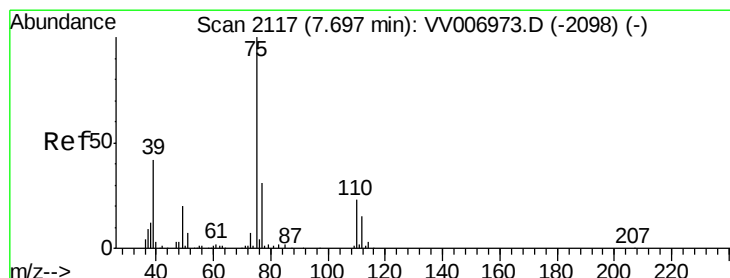
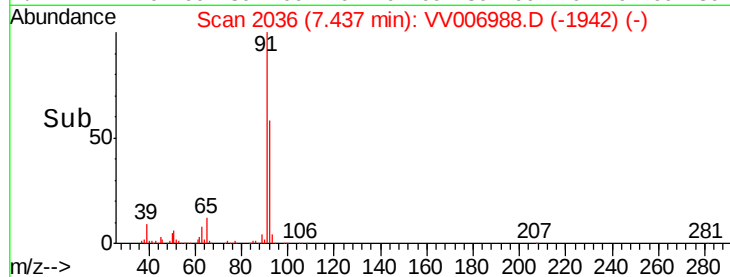
150000

100000

50000

0

Time-->



#44

trans-1,3-Dichloropropene

Concen: 4.738 ug/L

RT: 7.70 min Scan# 2118

Delta R.T. 0.00 min

Lab File: VV006988.D

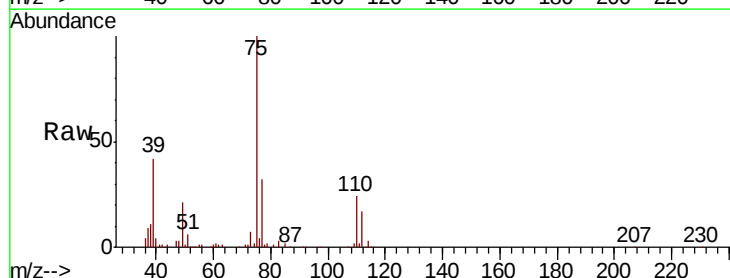
Acq: 10 Aug 2018 17:04

Tgt Ion: 75 Resp: 110824

Ion Ratio Lower Upper

75 100

77 31.7 22.3 41.3



Abundance Ion 75.05 (74.75 to 75.75): VV006973.D (-2098) (-)

Ion 77.05 (76.75 to 77.75): VV006973.D (-2098) (-)

7.70

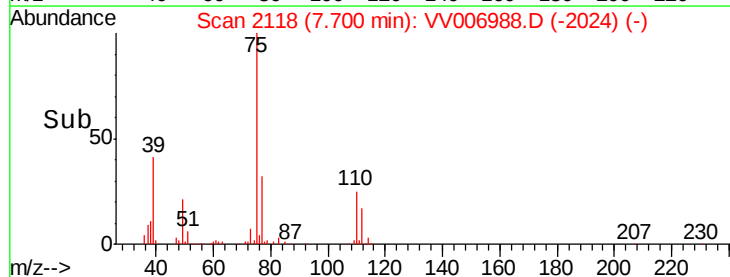
60000

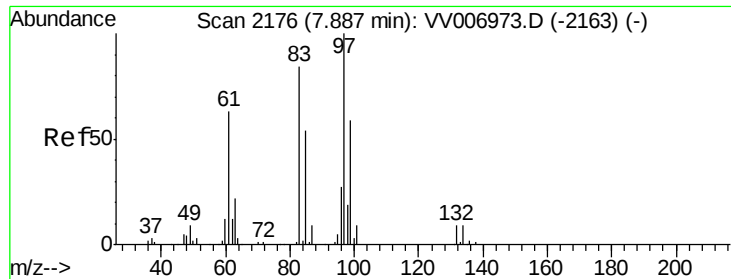
40000

20000

0

Time-->

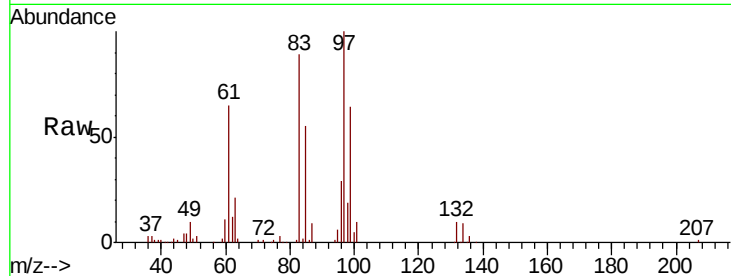




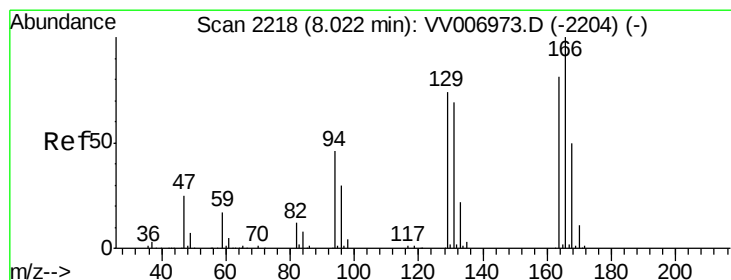
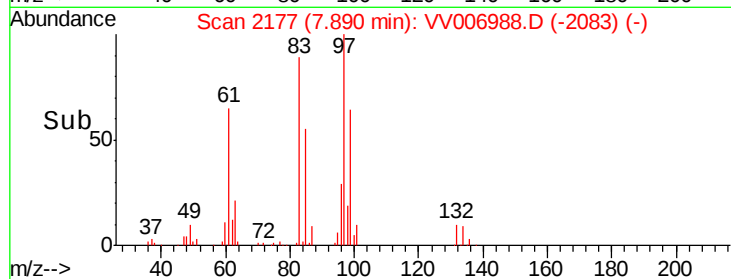
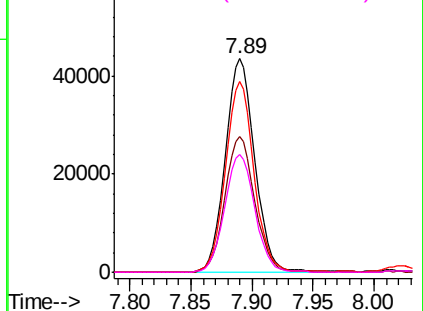
#45
 1,1,2-Trichloroethane
 Concen: 4.798 ug/L
 RT: 7.89 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VV006988.D
 Acq: 10 Aug 2018 17:04

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00584

Tot Ion:	97	Resp:	73626
Ion	Ratio	Lower	Upper
97	100		
99	63.8	40.6	75.4
83	89.3	58.0	107.8
85	55.0	37.5	69.7

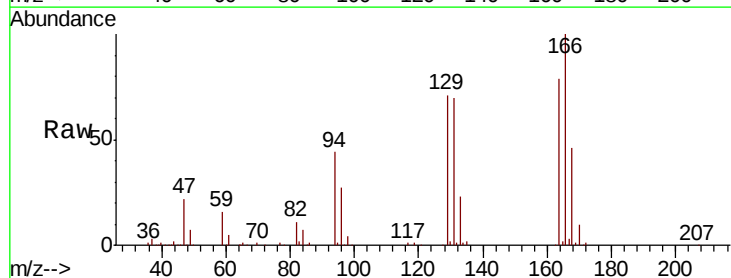


Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

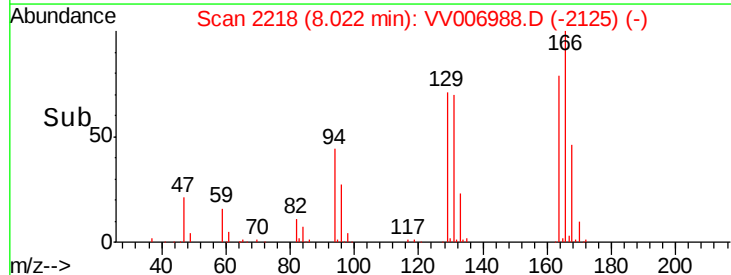
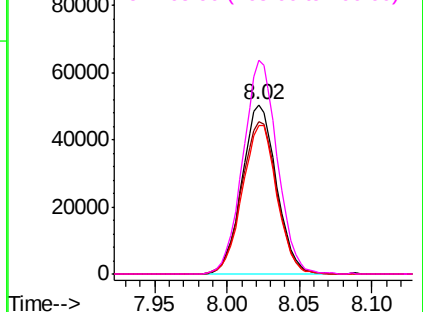


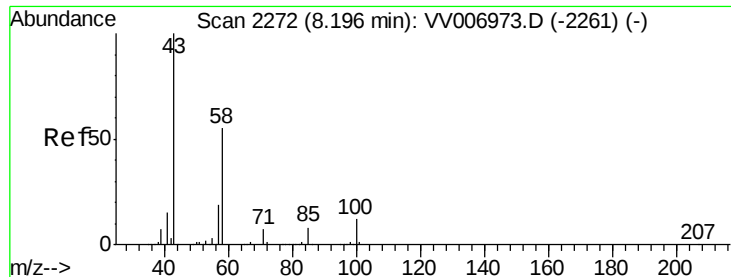
#47
 Tetrachloroethene
 Concen: 4.975 ug/L
 RT: 8.02 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VV006988.D
 Acq: 10 Aug 2018 17:04

Tgt Ion:	164	Resp:	83354
Ion	Ratio	Lower	Upper
164	100		
129	90.2	65.9	122.3
131	88.2	64.2	119.2
166	126.4	89.4	166.0



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

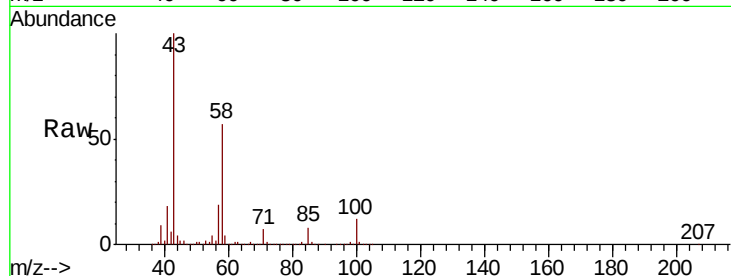




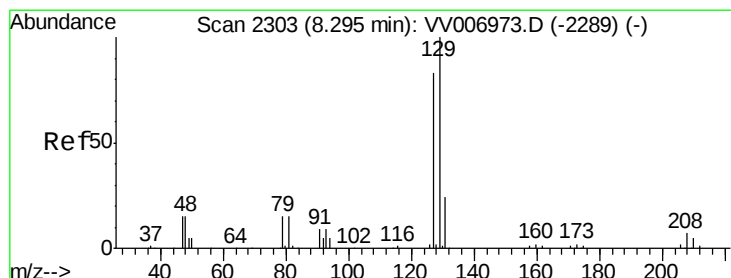
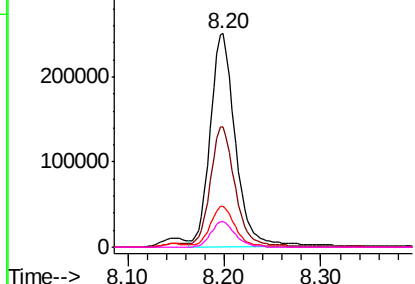
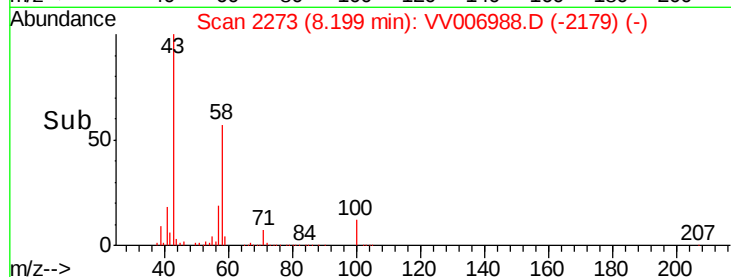
#48
2-Hexanone
Concen: 50.166 ug/L
RT: 8.20 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VV006988.D
Acq: 10 Aug 2018 17:04

Instrument :
MSVOA_V
ClientSampleId :
VSTD00584

Tot Ion:	43	Resp:	450812
Ion	Ratio	Lower	Upper
43	100		
58	56.3	44.2	66.2
57	18.7	14.8	22.2
100	12.0	8.8	13.2

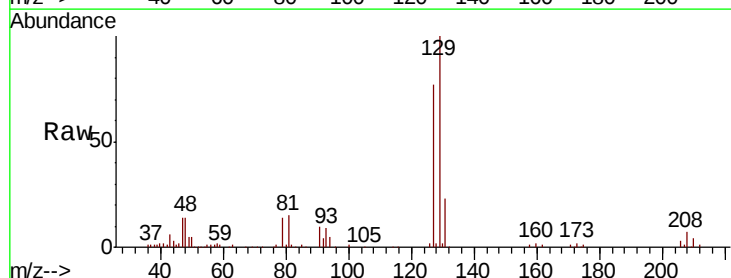


Abundance Ion 43.05 (42.75 to 43.75): VV006988.D (-2179) (-)
Ion 58.05 (57.75 to 58.75): VV006988.D (-2179) (-)
Ion 57.20 (56.90 to 57.90): VV006988.D (-2179) (-)
Ion 100.15 (99.85 to 100.85): VV006988.D (-2179) (-)

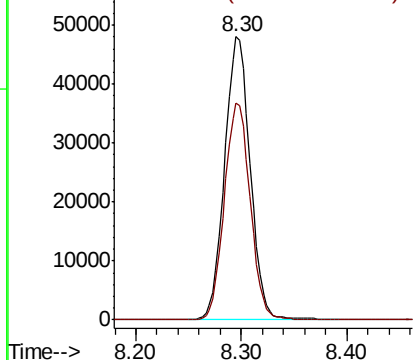
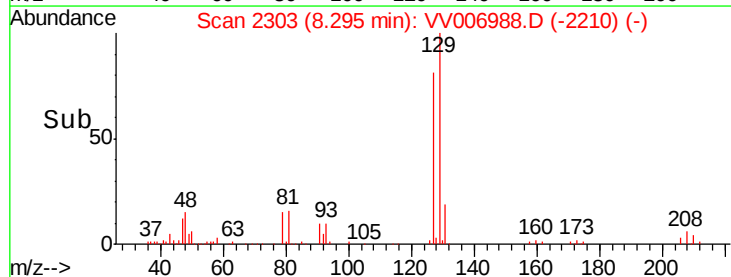


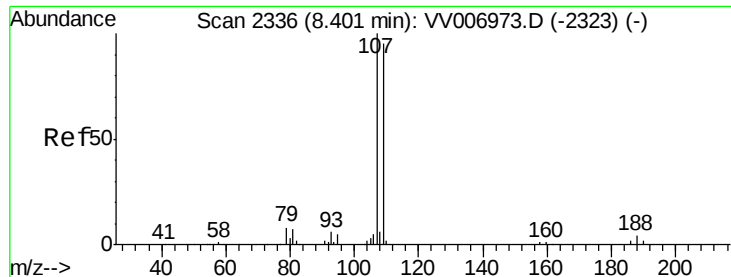
#49
Dibromochloromethane
Concen: 5.008 ug/L
RT: 8.30 min Scan# 2303
Delta R.T. -0.00 min
Lab File: VV006988.D
Acq: 10 Aug 2018 17:04

Tgt Ion:	129	Resp:	80611
Ion	Ratio	Lower	Upper
129	100		
127	76.5	53.3	98.9



Abundance Ion 128.95 (128.65 to 129.65): VV006988.D (-2210) (-)
Ion 126.90 (126.60 to 127.60): VV006988.D (-2210) (-)

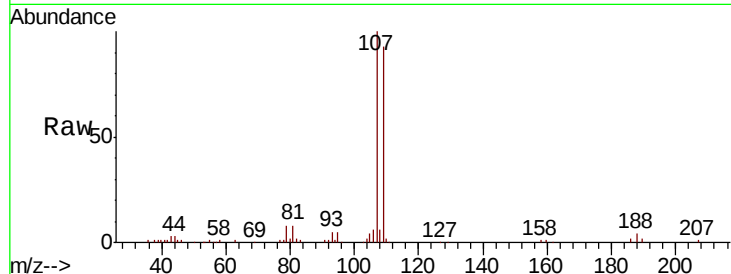




#50
1,2-Dibromoethane
Concen: 4.899 ug/L
RT: 8.40 min Scan# 2337
Delta R.T. 0.00 min
Lab File: VV006988.D
Acq: 10 Aug 2018 17:04

Instrument :
MSVOA_V
ClientSampleId :
VSTD00584

Tot Ion	Ratio	Lower	Upper
107	100		
109	92.9	64.1	119.1
188	3.9	4.0	6.0#

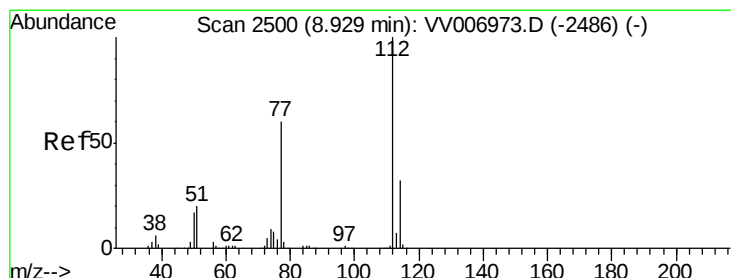
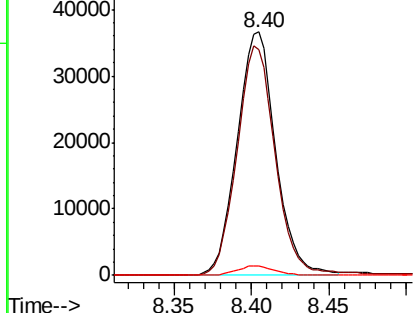
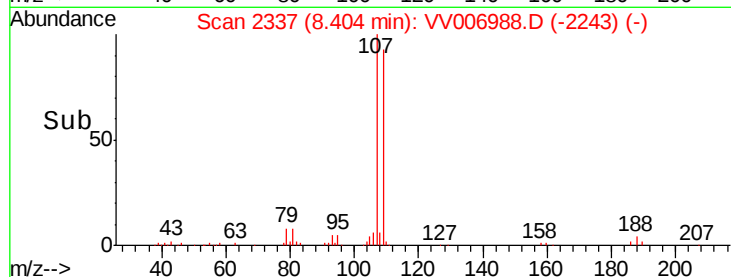


Abundance

Ion 106.95 (106.65 to 107.65): V

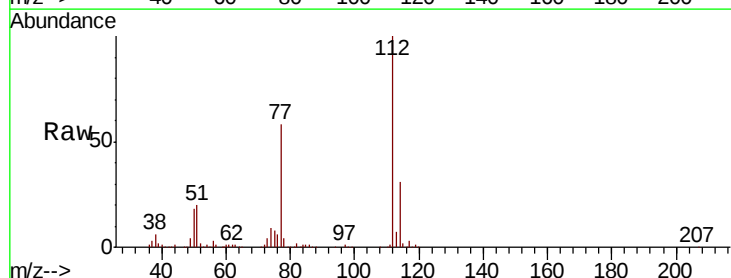
Ion 109.00 (108.70 to 109.70): V

Ion 187.90 (187.60 to 188.60): V



#51
Chlorobenzene
Concen: 4.940 ug/L
RT: 8.93 min Scan# 2501
Delta R.T. 0.00 min
Lab File: VV006988.D
Acq: 10 Aug 2018 17:04

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.1	21.8	40.6
77	58.0	48.0	72.0

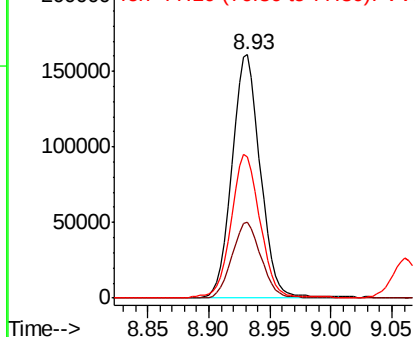
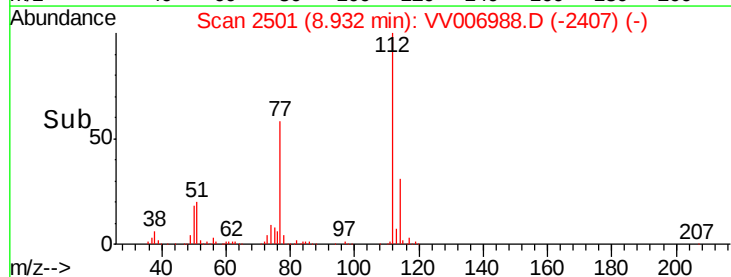


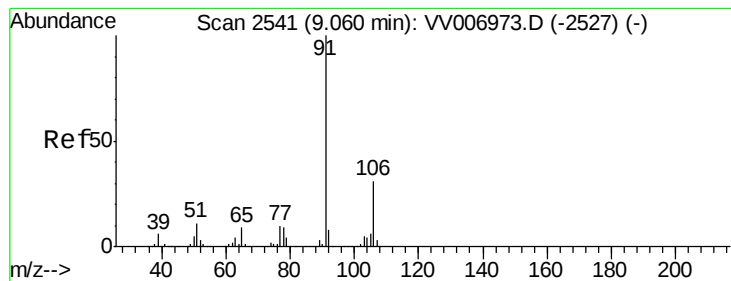
Abundance

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: 4.921 ug/L

RT: 9.06 min Scan# 2541

Delta R.T. -0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

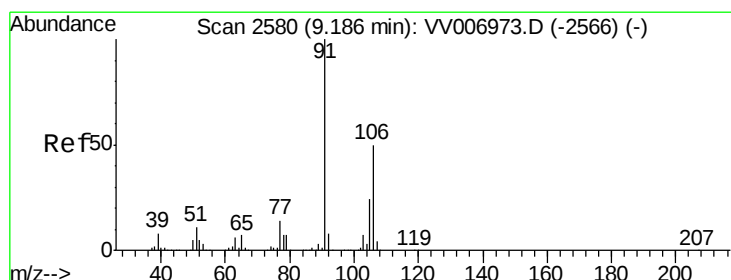
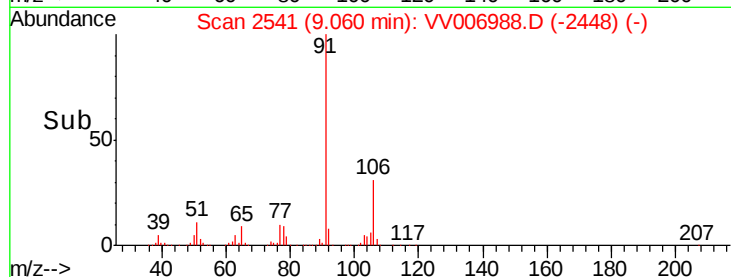
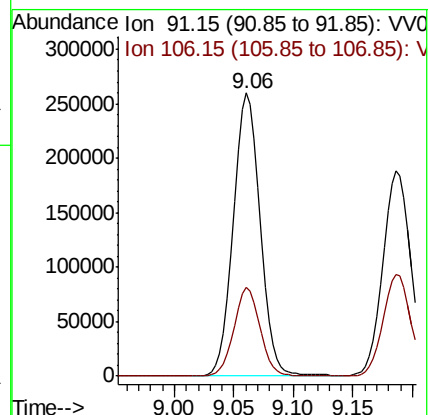
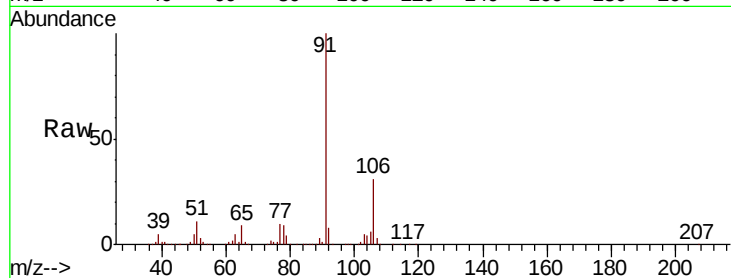
VSTD00584

Tot Ion: 91 Resp: 406898

Ion Ratio Lower Upper

91 100

106 31.2 21.3 39.5



#53

m,p-xylene

Concen: 4.914 ug/L

RT: 9.19 min Scan# 2580

Delta R.T. -0.00 min

Lab File: VV006988.D

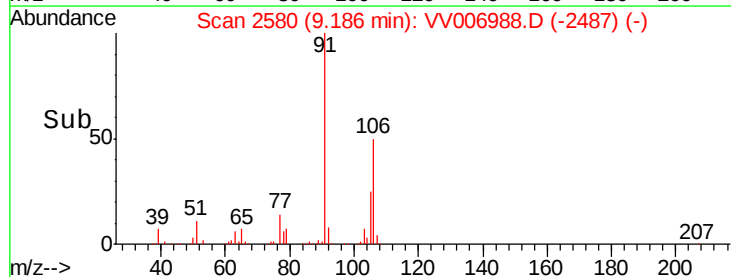
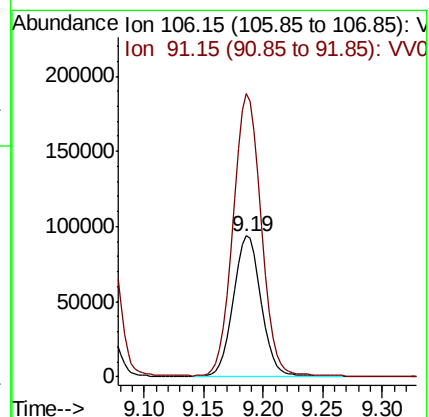
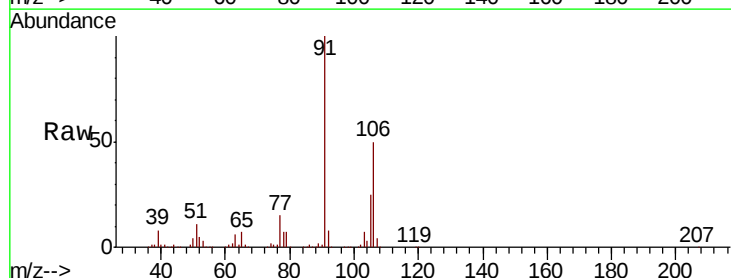
Acq: 10 Aug 2018 17:04

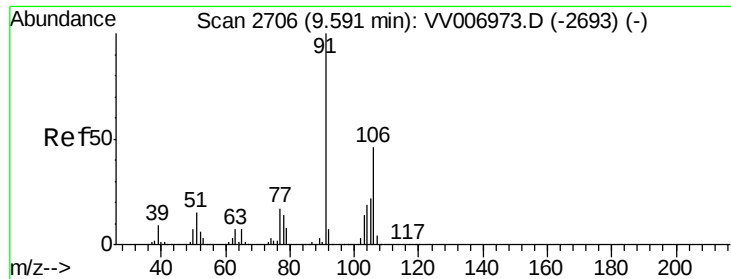
Tgt Ion: 106 Resp: 151483

Ion Ratio Lower Upper

106 100

91 201.0 141.6 263.0





#54

o-xylene

Concen: 4.929 ug/L

RT: 9.59 min Scan# 2707

Delta R.T. 0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampled :

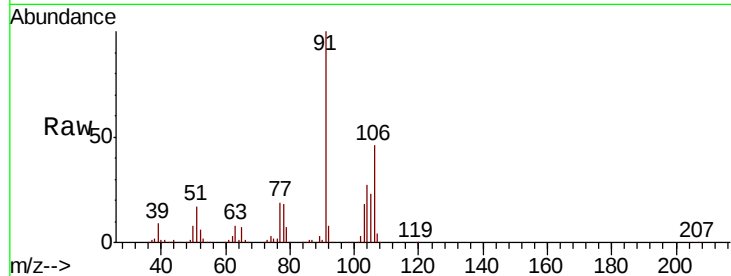
VSTD00584

Tot Ion:106 Resp: 143951

Ion Ratio Lower Upper

106 100

91 216.0 149.8 278.2



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VV0

200000

150000

100000

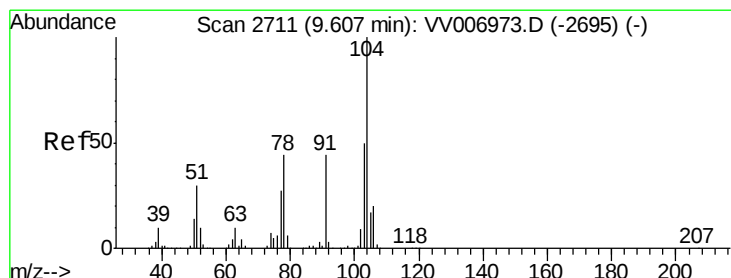
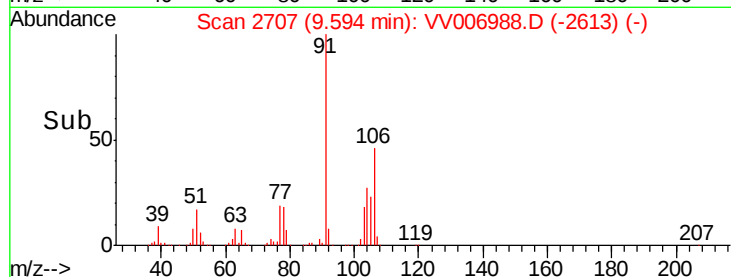
50000

0

9.59

9.55 9.60 9.65

Time-->



#55

Styrene

Concen: 5.141 ug/L

RT: 9.61 min Scan# 2712

Delta R.T. 0.00 min

Lab File: VV006988.D

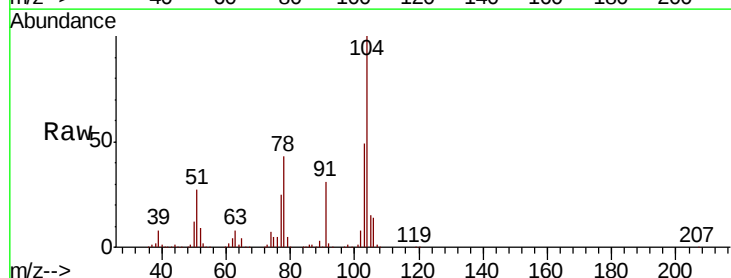
Acq: 10 Aug 2018 17:04

Tgt Ion:104 Resp: 253090

Ion Ratio Lower Upper

104 100

78 42.9 30.4 56.5



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VV0

150000

100000

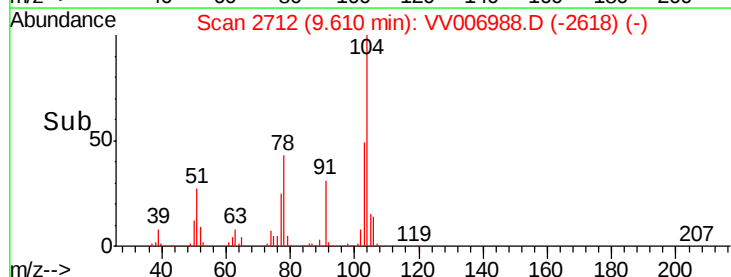
50000

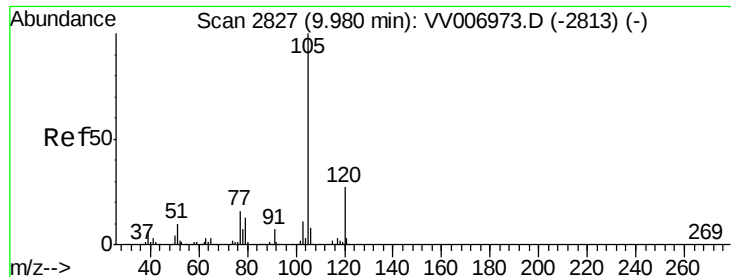
0

9.61

9.55 9.60 9.65 9.70

Time-->





#56

Isopropylbenzene

Concen: 4.942 ug/L

RT: 9.98 min Scan# 2827

Delta R.T. -0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

VSTD00584

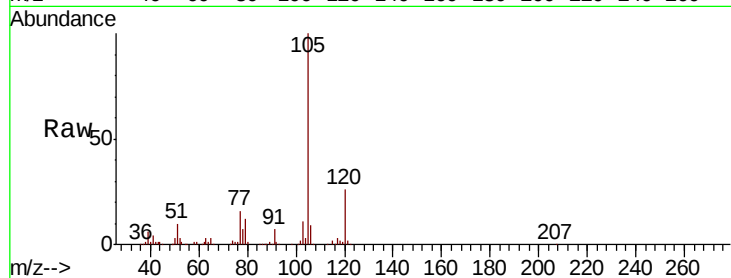
Tot Ion:105 Resp: 378728

Ion Ratio Lower Upper

105 100

120 26.2 21.1 31.7

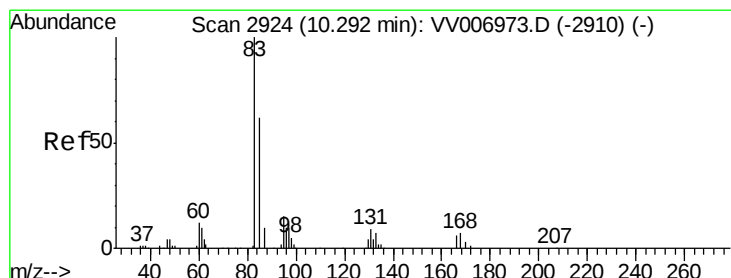
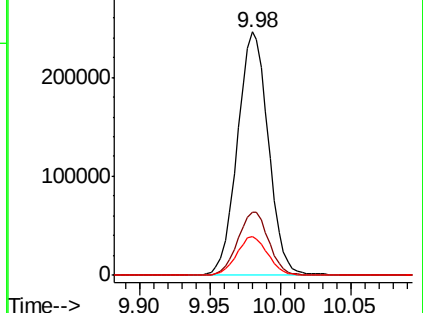
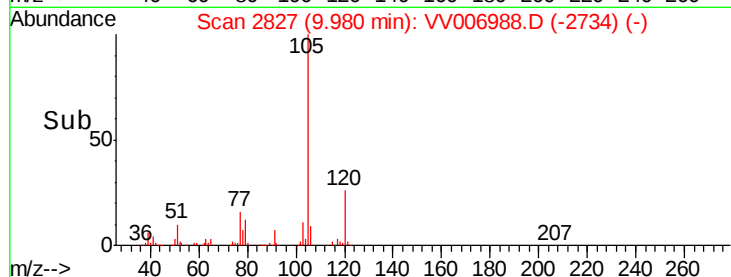
77 15.9 13.0 19.4



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: 4.877 ug/L

RT: 10.29 min Scan# 2924

Delta R.T. -0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

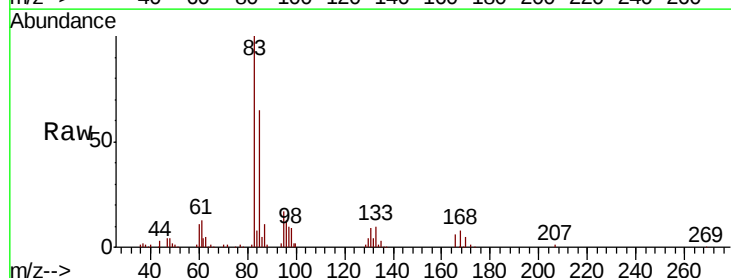
Tgt Ion: 83 Resp: 90966

Ion Ratio Lower Upper

83 100

85 65.4 43.0 79.8

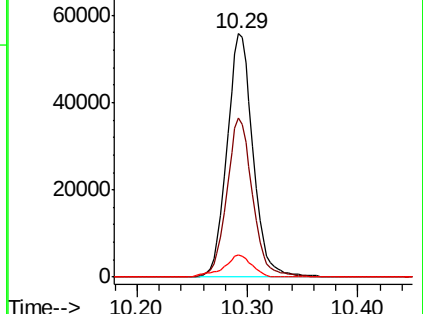
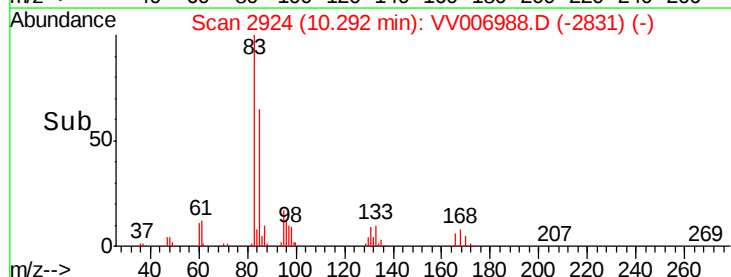
131 9.1 7.4 11.2

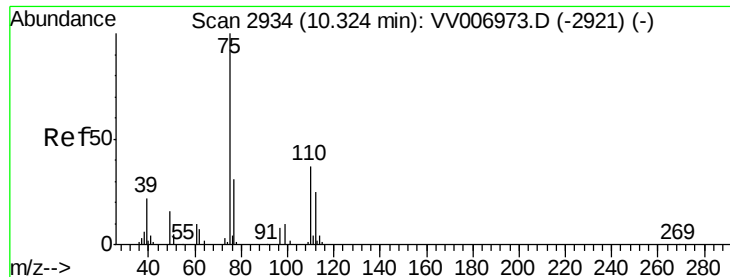


Abundance Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.849 ug/L

RT: 10.32 min Scan# 2934

Delta R.T. -0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

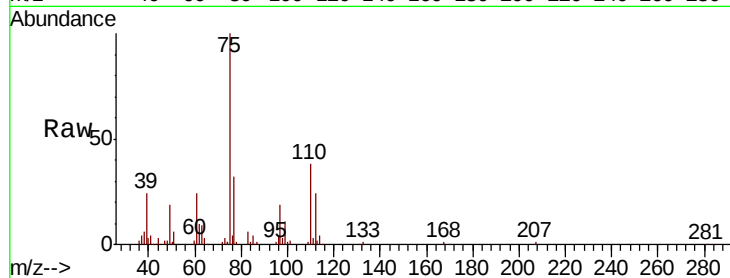
VSTD00584

Tot Ion: 75 Resp: 64017

Ion Ratio Lower Upper

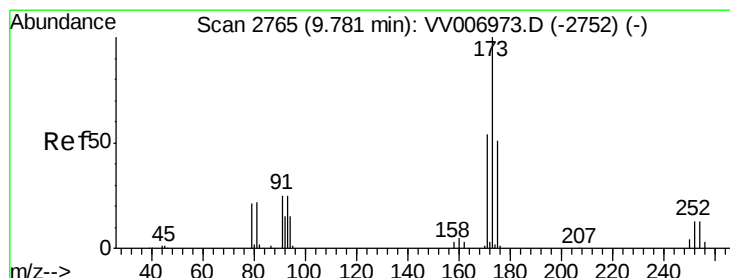
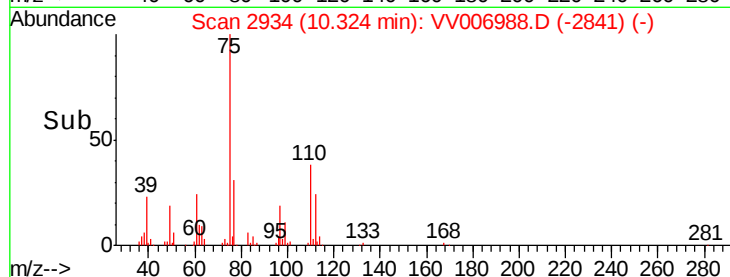
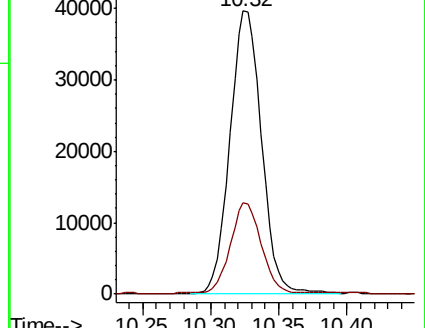
75 100

77 30.2 25.4 38.0



Abundance Ion 75.00 (74.70 to 75.70): VV006973.D (-2921) (-)

Ion 77.00 (76.70 to 77.70): VV006973.D (-2921) (-)



#61

Bromoform

Concen: 4.937 ug/L

RT: 9.78 min Scan# 2765

Delta R.T. -0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

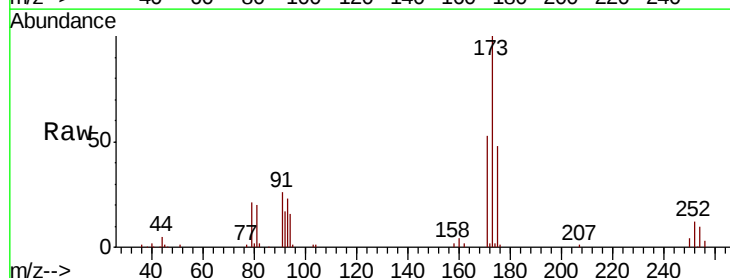
Tgt Ion: 173 Resp: 42342

Ion Ratio Lower Upper

173 100

175 48.4 39.3 58.9

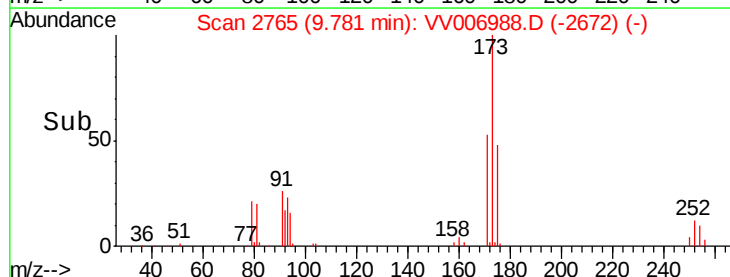
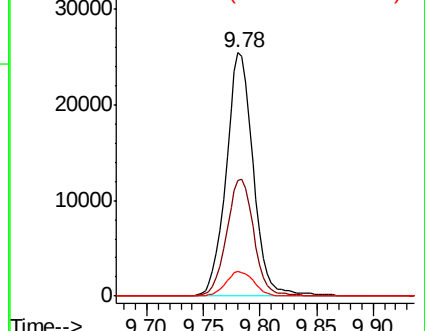
254 10.4 8.3 12.5

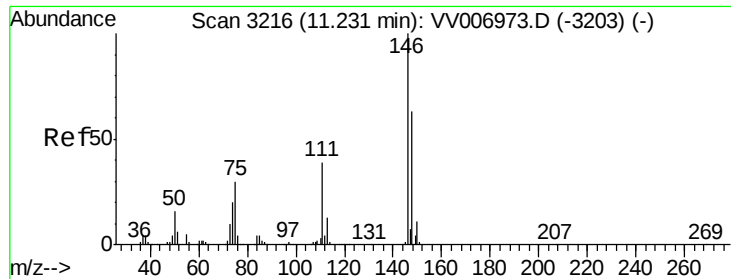


Abundance Ion 172.90 (172.60 to 173.60): VV006973.D (-2752) (-)

Ion 174.90 (174.60 to 175.60): VV006973.D (-2752) (-)

Ion 253.75 (253.45 to 254.45): VV006973.D (-2752) (-)





#62

1,3-Dichlorobenzene

Concen: 4.856 ug/L

RT: 11.23 min Scan# 3216

Delta R.T. -0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

VSTD00584

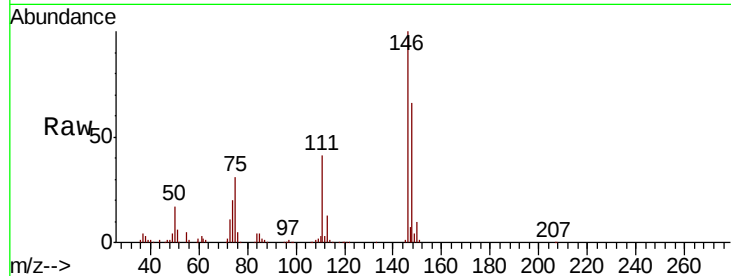
Tot Ion:146 Resp: 177913

Ion Ratio Lower Upper

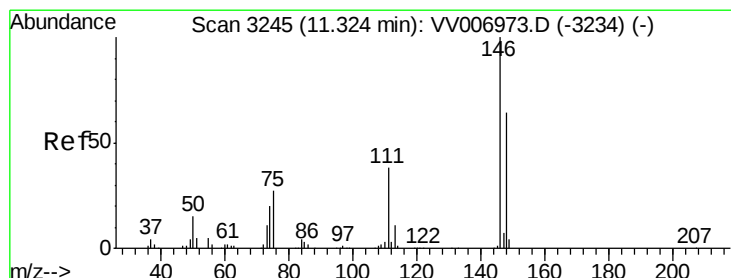
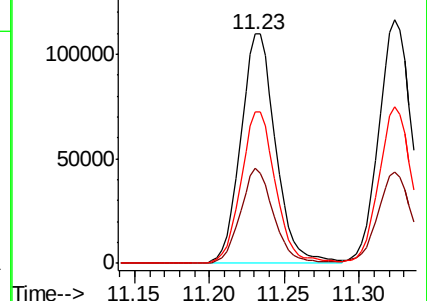
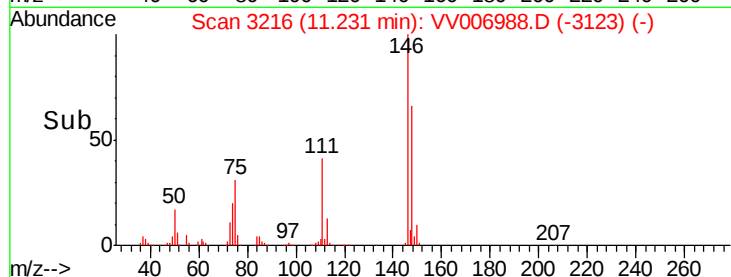
146 100

111 41.4 28.1 52.3

148 66.0 44.2 82.2



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



#63

1,4-Dichlorobenzene

Concen: 4.937 ug/L

RT: 11.32 min Scan# 3245

Delta R.T. -0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

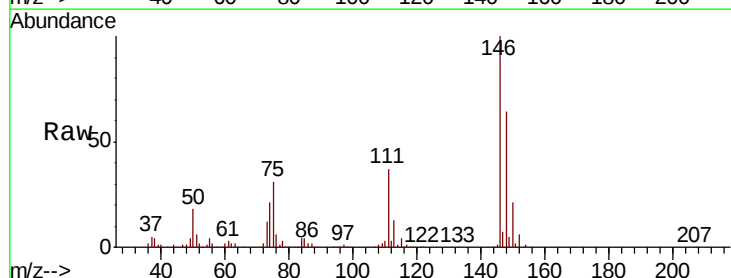
Tgt Ion:146 Resp: 185407

Ion Ratio Lower Upper

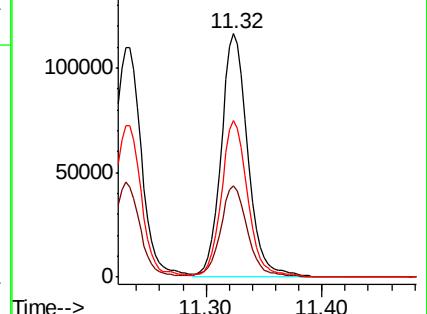
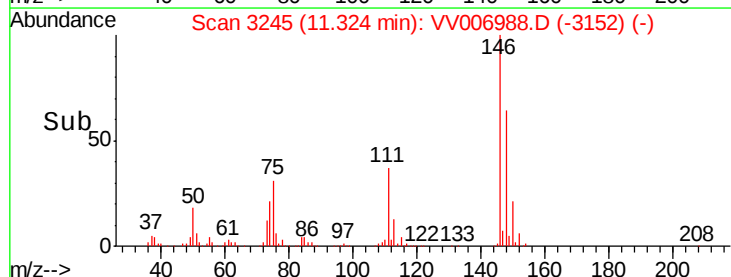
146 100

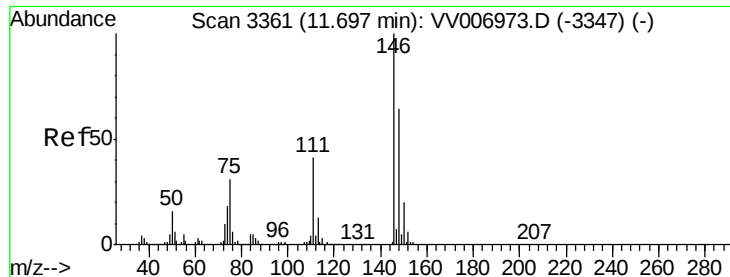
111 37.5 26.6 49.4

148 64.1 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: 5.006 ug/L

RT: 11.70 min Scan# 3361

Delta R.T. -0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampled :

VSTD00584

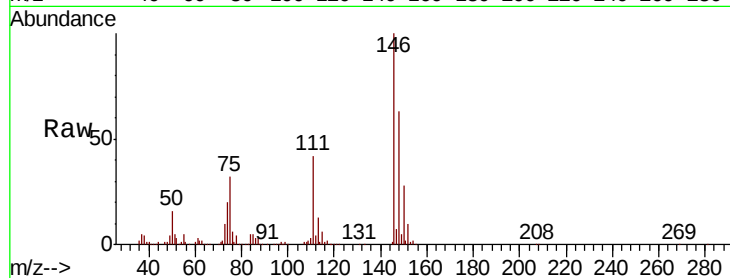
Tot Ion:146 Resp: 180404

Ion Ratio Lower Upper

146 100

111 42.2 33.0 49.6

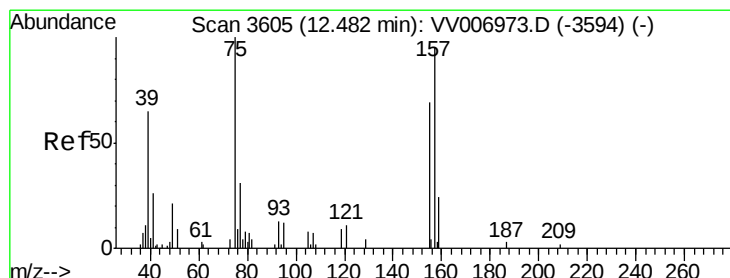
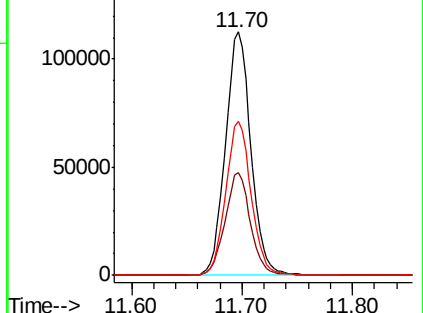
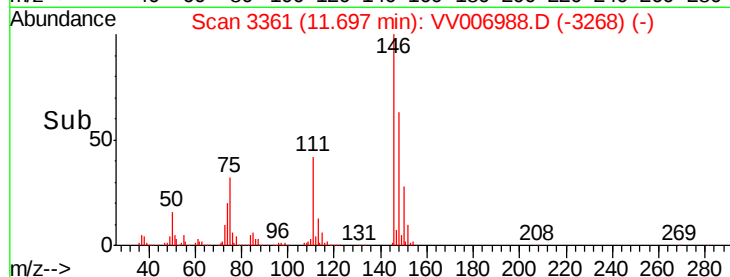
148 63.2 50.6 75.8



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: 4.432 ug/L

RT: 12.48 min Scan# 3605

Delta R.T. -0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

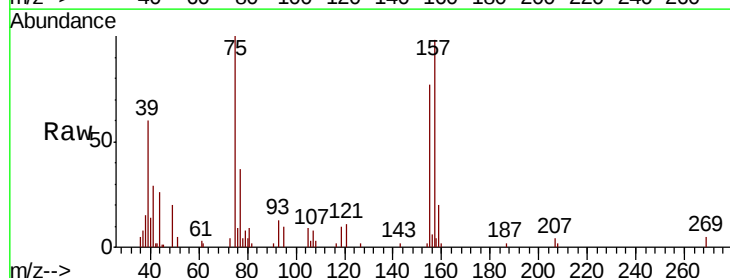
Tgt Ion: 75 Resp: 11340

Ion Ratio Lower Upper

75 100

155 77.4 62.6 94.0

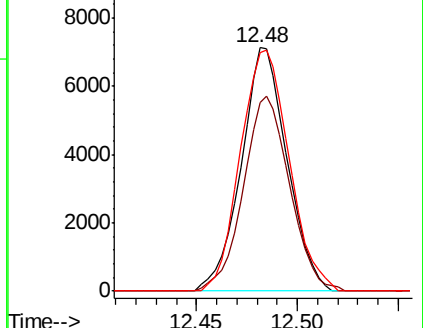
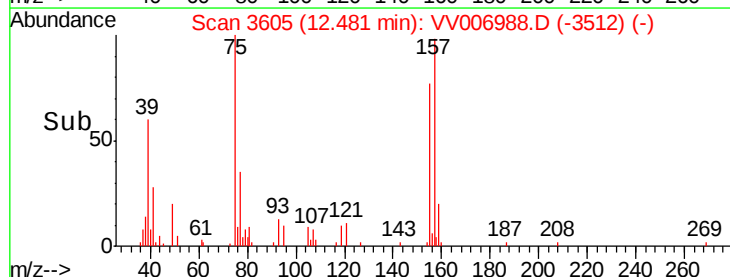
157 97.8 77.0 115.6

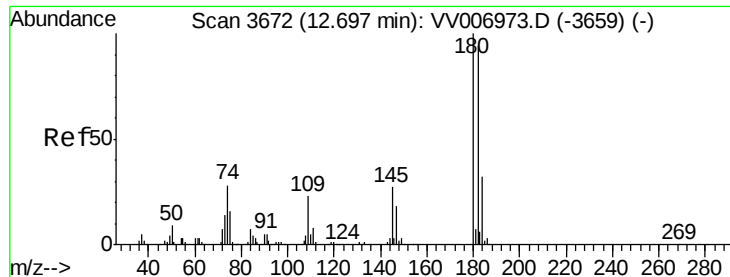


Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 154.95 (154.65 to 155.65): V

Ion 156.90 (156.60 to 157.60): V

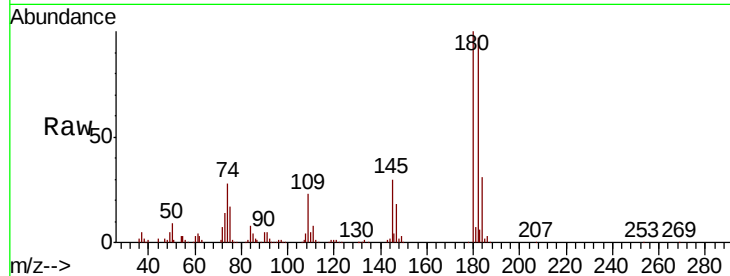




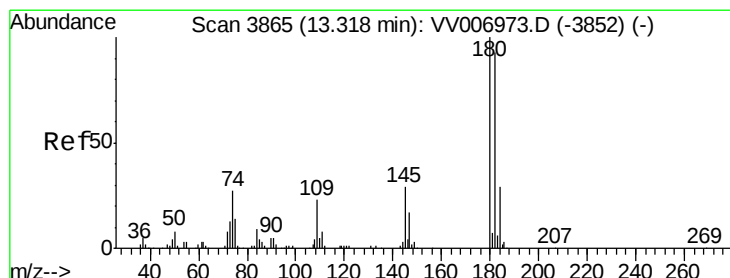
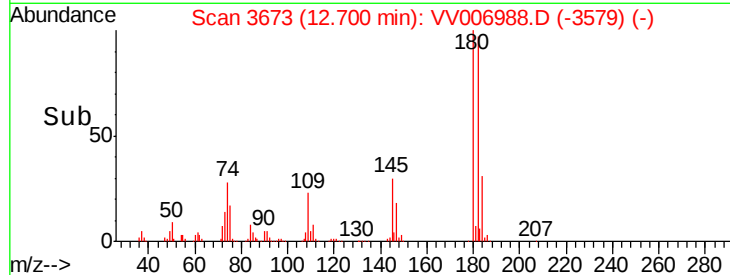
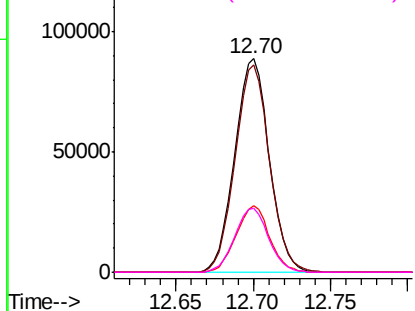
#67
 1,3,5-Trichlorobenzene
 Concen: 4.964 ug/L
 RT: 12.70 min Scan# 3673
 Delta R.T. 0.00 min
 Lab File: VV006988.D
 Acq: 10 Aug 2018 17:04

Instrument :
 MSVOA_V
 ClientSampleId :
 VSTD00584

Tot Ion:180	Resp:	137660
Ion Ratio	Lower	Upper
180	100	
182	96.5	75.1 112.7
184	30.2	23.8 35.8
145	29.4	21.9 32.9

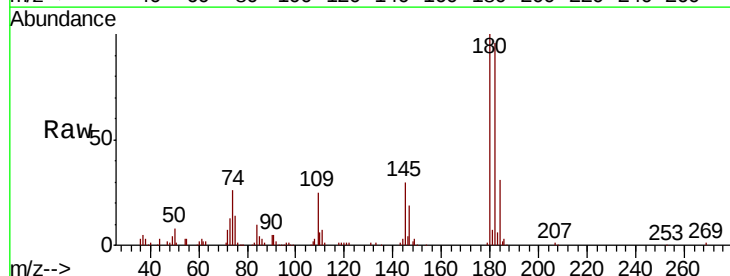


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

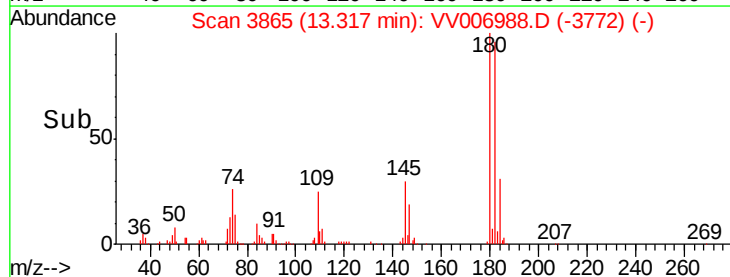
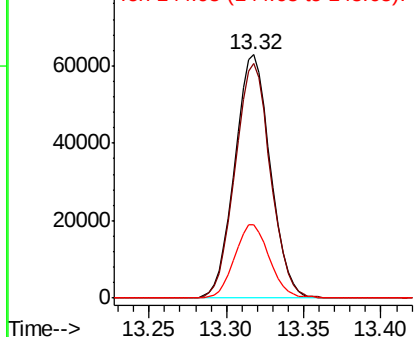


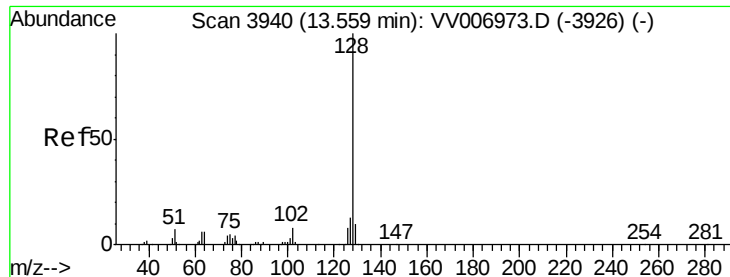
#68
 1,2,4-trichlorobenzene
 Concen: 4.928 ug/L
 RT: 13.32 min Scan# 3865
 Delta R.T. -0.00 min
 Lab File: VV006988.D
 Acq: 10 Aug 2018 17:04

Tgt Ion:180	Resp:	100285
Ion Ratio	Lower	Upper
180	100	
182	96.0	76.5 114.7
145	29.5	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: 4.500 ug/L

RT: 13.56 min Scan# 3940

Delta R.T. -0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

Instrument :

MSVOA_V

ClientSampleId :

VSTD00584

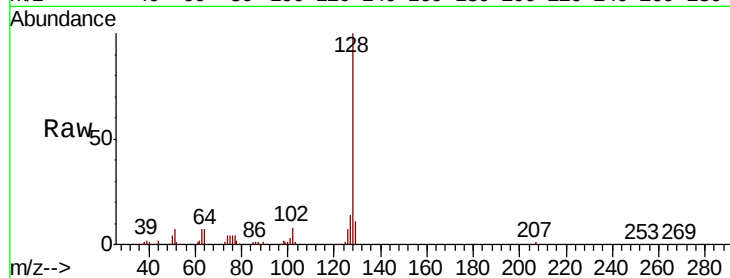
Tot Ion:128 Resp: 131522

Ion Ratio Lower Upper

128 100

129 10.6 8.5 12.7

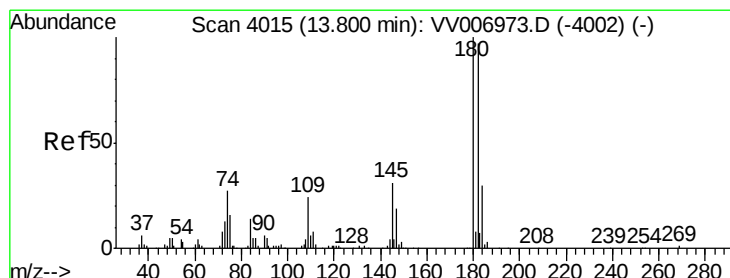
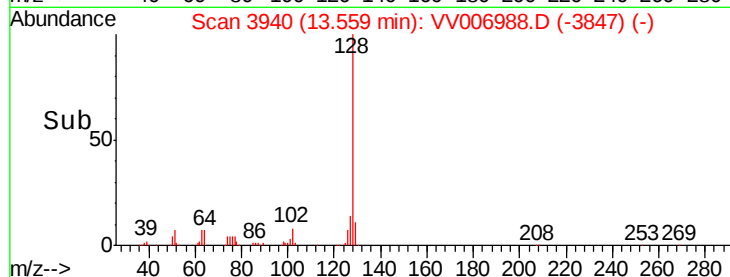
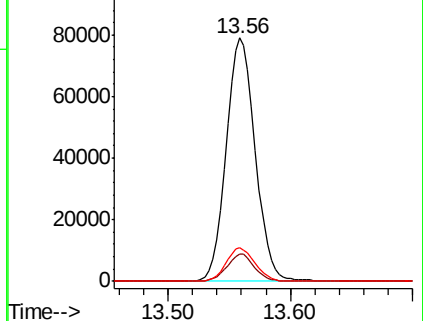
127 13.5 10.6 16.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 4.946 ug/L

RT: 13.80 min Scan# 4015

Delta R.T. -0.00 min

Lab File: VV006988.D

Acq: 10 Aug 2018 17:04

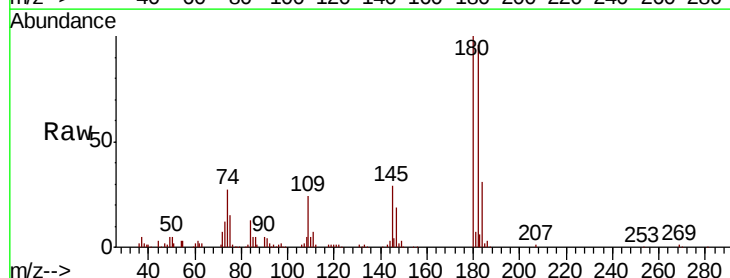
Tgt Ion:180 Resp: 97026

Ion Ratio Lower Upper

180 100

182 96.3 76.1 114.1

145 29.8 24.6 36.8



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

