

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV092818\
 Data File : VV007973.D
 Acq On : 29 Sep 2018 00:29
 Operator : SY/MD
 Sample : J5091-04
 Misc : 25.0 mL/MSVOA V/WATER
 ALS Vial : 33 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 E62S8

Quant Time: Oct 01 04:57:08 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR092718WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Mon Oct 01 04:55:39 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	92062	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	90604	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	45060	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	17971	3.64	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	72.80%
7) Chloroethane-d5	1.59	69	17442	4.09	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	81.80%
11) 1,1-Dichloroethene-d2	2.14	63	41384	3.71	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	74.20%
20) 2-Butanone-d5	3.98	46	71529	48.19	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	96.38%
24) Chloroform-d	4.41	84	48778	4.34	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.80%
26) 1,2-Dichloroethane-d4	5.09	65	26119	4.22	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	84.40%
32) Benzene-d6	5.10	84	90866	4.20	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.00%
36) 1,2-Dichloropropane-d6	6.12	67	30552	4.45	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	89.00%
41) Toluene-d8	7.36	98	85018	3.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	77.20%
43) trans-1,3-Dichloropropene-	7.67	79	9630	3.65	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	73.00%
46) 2-Hexanone-d5	8.14	63	51936	44.56	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	89.12%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	23489	4.44	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.80%
64) 1,2-Dichlorobenzene-d4	11.68	152	37228	4.27	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	85.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	1137	0.155	ug/L #	70
8) Chloroethane	1.32	64	535	0.121	ug/L #	1
12) 1,1-Dichloroethene	2.14	96	19844	3.261	ug/L	99
13) Acetone	2.23	43	15771	14.582	ug/L	93
15) Methyl Acetate	2.23	43	15632	5.651	ug/L #	51
17) Methyl tert-butyl Ether	2.82	73	4226	0.281	ug/L #	92
18) trans-1,2-Dichloroethene	2.79	96	1256	0.187	ug/L #	87
19) 1,1-Dichloroethane	3.23	63	59290	5.180	ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	6774	0.997	ug/L	100
27) 1,2-Dichloroethane	5.19	62	1637	0.205	ug/L #	77
33) Benzene	5.15	78	3553	0.137	ug/L	100
34) Trichloroethene	5.96	95	279987	37.689	ug/L	96
35) Methylcyclohexane	6.12	83	7279	0.653	ug/L #	22
37) 1,2-Dichloropropane	6.12	63	3673	0.554	ug/L #	87
39) cis-1,3-Dichloropropene	7.03	75	769	0.087	ug/L #	64
47) Tetrachloroethene	8.03	164	1016	0.148	ug/L	88
49) Dibromochloromethane	8.02	129	957	0.175	ug/L #	12

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Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Oct 01 04:55:39 2018
Response via : Initial Calibration

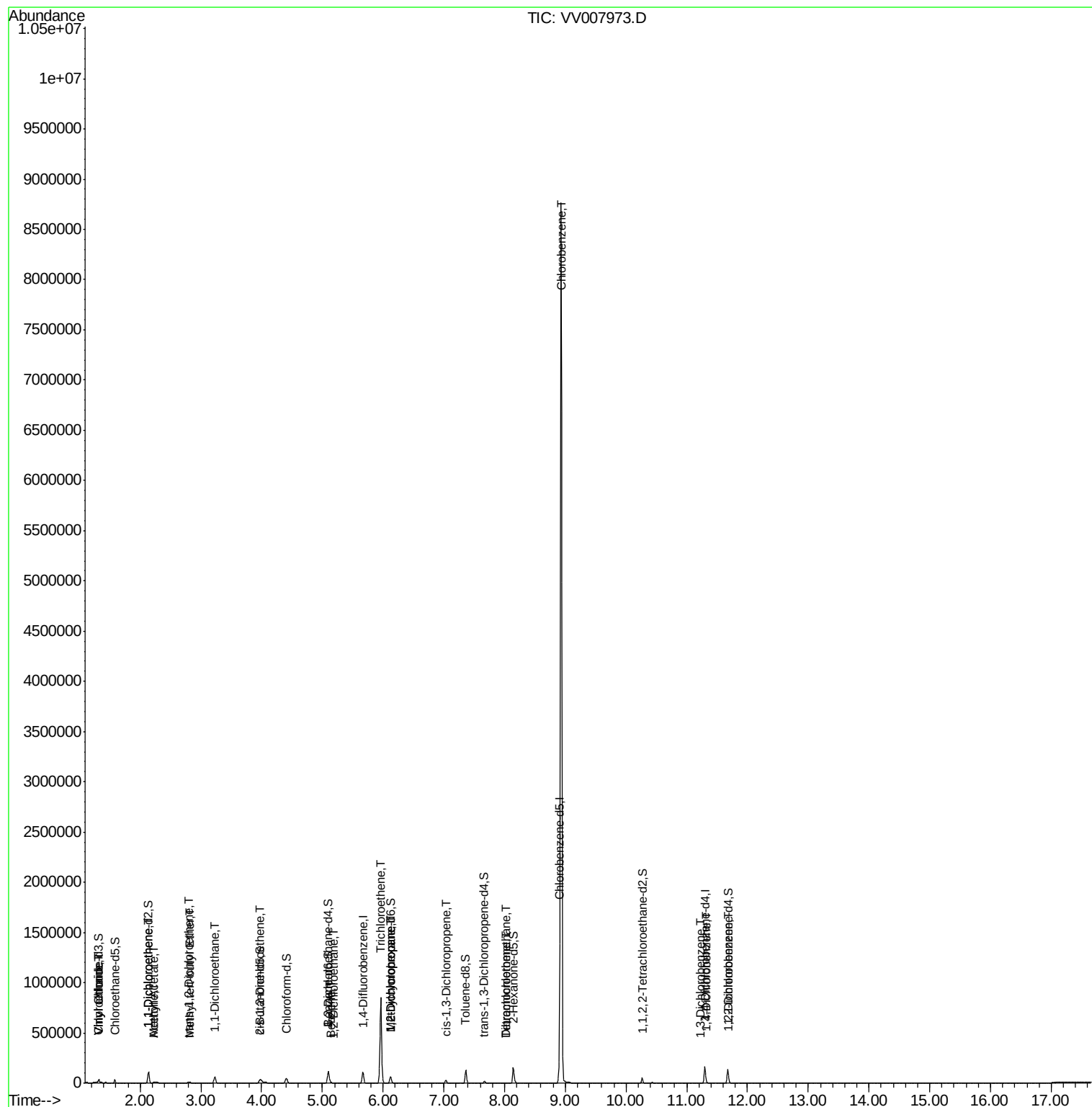
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
51) Chlorobenzene	8.93	112	4582399	234.805	ug/L	99
62) 1,3-Dichlorobenzene	11.23	146	1213	0.082	ug/L	92
63) 1,4-Dichlorobenzene	11.32	146	4189	0.271	ug/L	93
65) 1,2-Dichlorobenzene	11.70	146	3357	0.239	ug/L	93

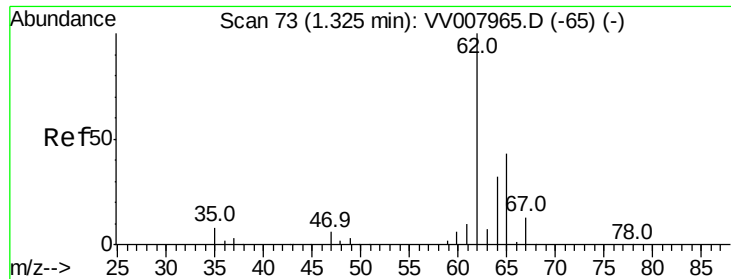
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 0.155 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VV007973.D

Acq: 29 Sep 2018 00:29

Instrument :

MSVOA_V

ClientSampled :

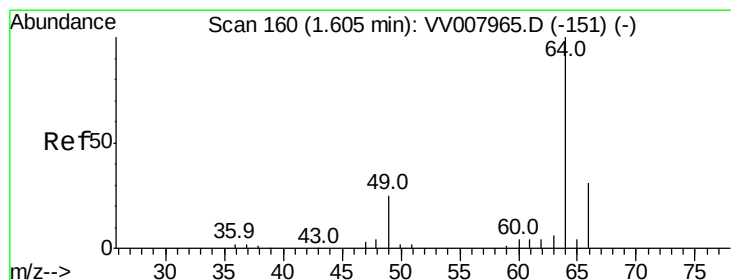
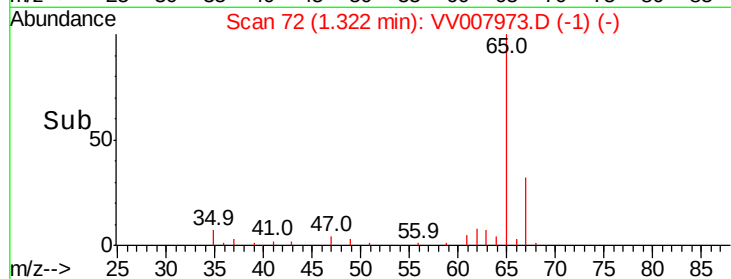
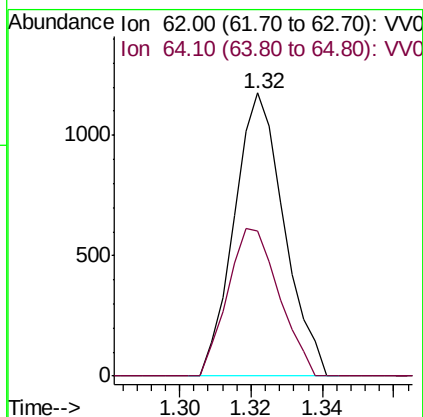
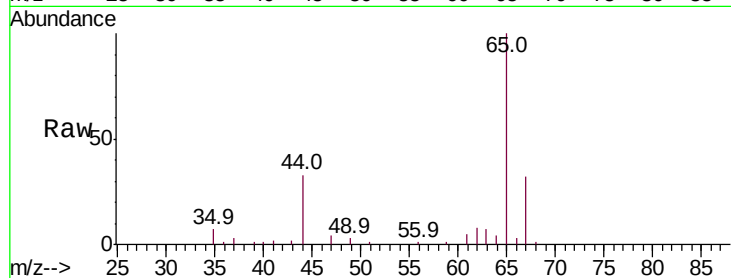
E62S8

Tot Ion: 62 Resp: 1137

Ion Ratio Lower Upper

62 100

64 51.3 24.0 44.6#



#8

Chloroethane

Concen: 0.121 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.29 min

Lab File: VV007973.D

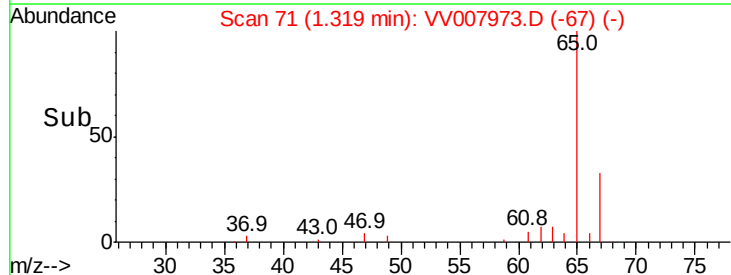
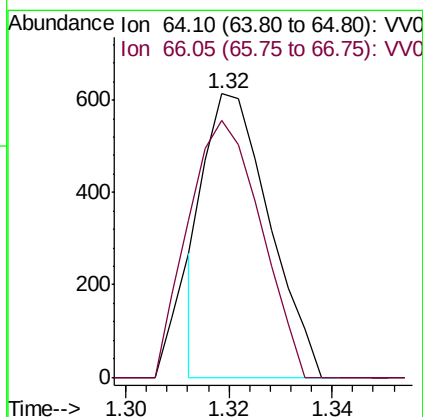
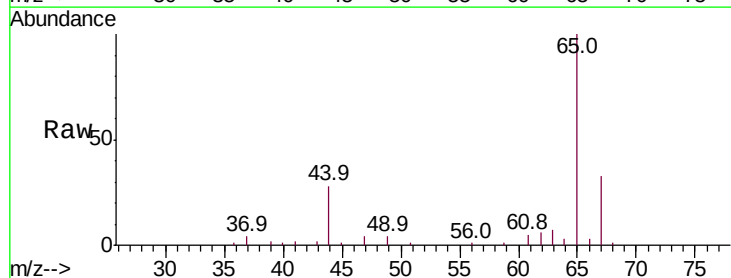
Acq: 29 Sep 2018 00:29

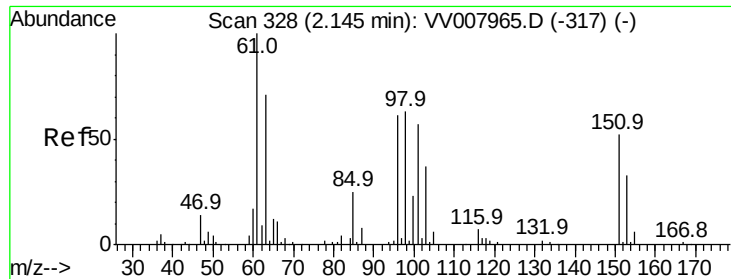
Tgt Ion: 64 Resp: 535

Ion Ratio Lower Upper

64 100

66 90.7 23.1 42.9#





#12

1,1-Dichloroethene

Concen: 3.261 ug/L

RT: 2.14 min Scan# 328

Delta R.T. 0.00 min

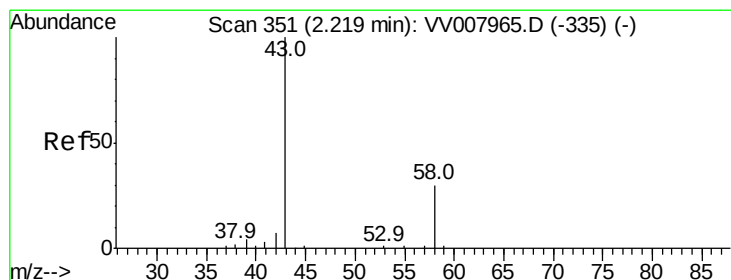
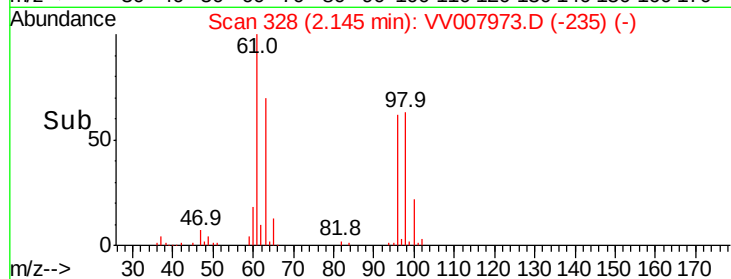
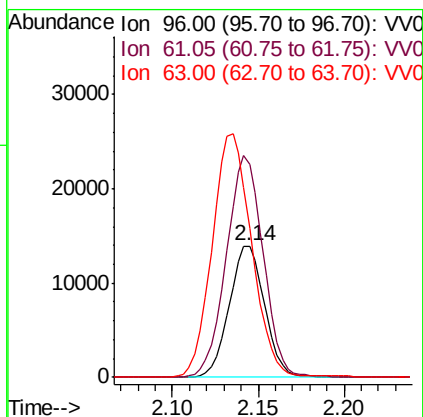
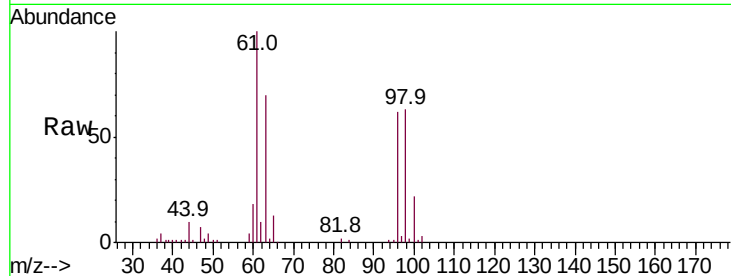
Lab File: VV007973.D

Acq: 29 Sep 2018 00:29

Instrument :
MSVOA_V
ClientSampled :
E62S8

Tot Ion: 96 Resp: 19844

Ion	Ratio	Lower	Upper
96	100		
61	162.5	114.1	211.9
63	113.4	81.5	151.3



#13

Acetone

Concen: 14.582 ug/L

RT: 2.23 min Scan# 356

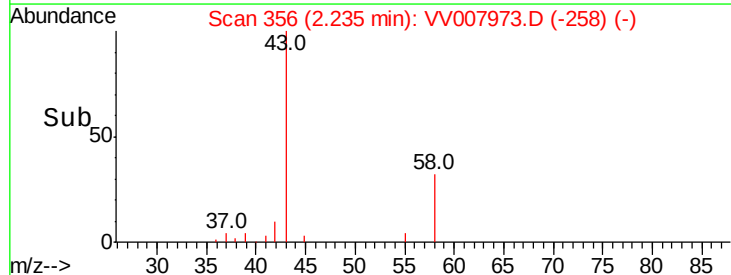
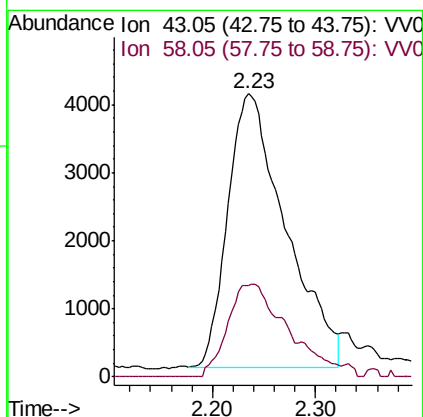
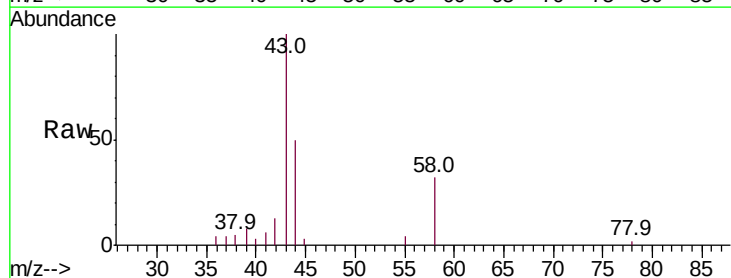
Delta R.T. 0.02 min

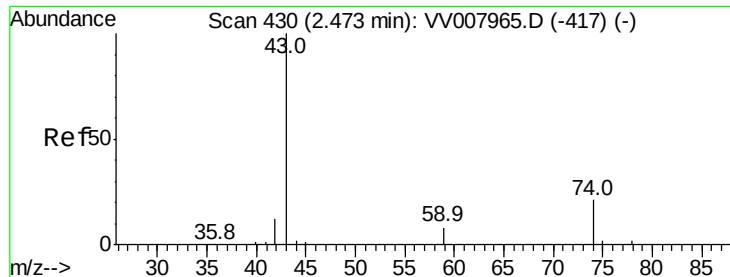
Lab File: VV007973.D

Acq: 29 Sep 2018 00:29

Tgt Ion: 43 Resp: 15771

Ion	Ratio	Lower	Upper
43	100		
58	34.9	0.0	62.0

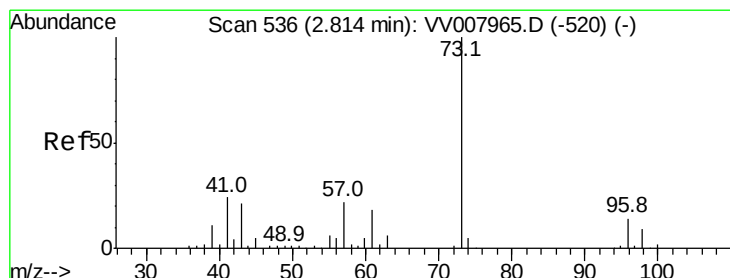
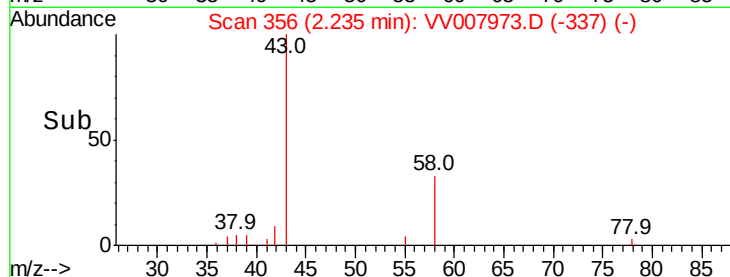
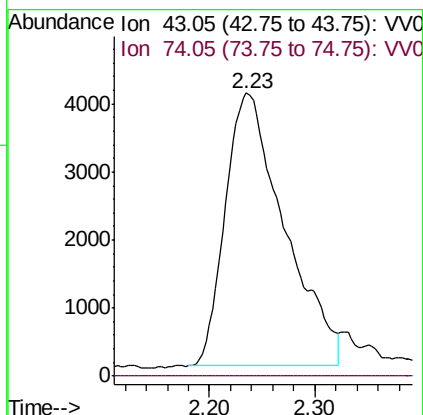
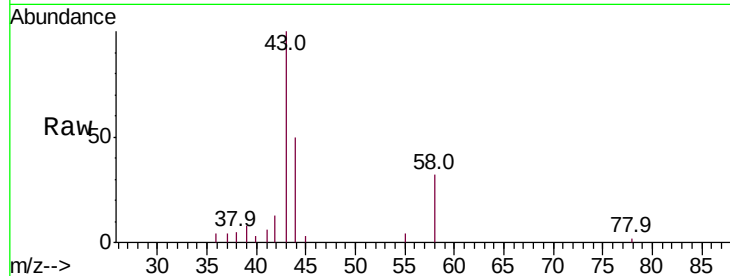




#15
Methyl Acetate
Concen: 5.651 ug/L
RT: 2.23 min Scan# 356
Delta R.T. -0.24 min
Lab File: VV007973.D
Acq: 29 Sep 2018 00:29

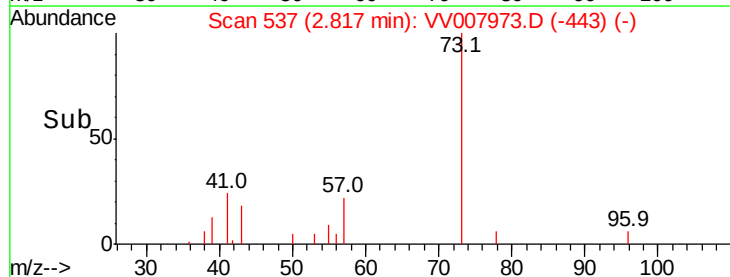
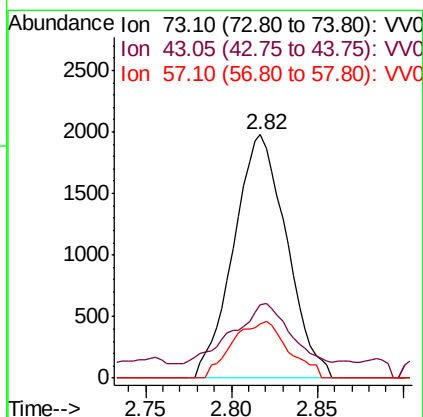
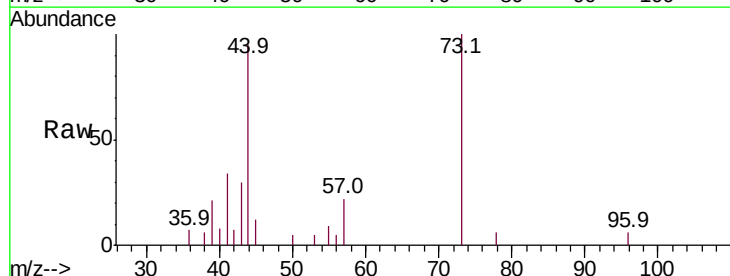
Instrument :
MSVOA_V
ClientSampleId :
E62S8

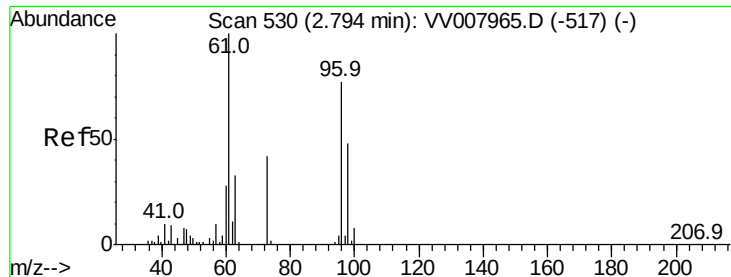
Tot Ion: 43 Resp: 15632
Ion Ratio Lower Upper
43 100
74 0.0 19.5 29.3#



#17
Methyl tert-butyl Ether
Concen: 0.281 ug/L
RT: 2.82 min Scan# 537
Delta R.T. 0.00 min
Lab File: VV007973.D
Acq: 29 Sep 2018 00:29

Tgt Ion: 73 Resp: 4226
Ion Ratio Lower Upper
73 100
43 25.9 16.8 25.2#
57 24.6 17.6 26.4





#18

trans-1,2-Dichloroethene

Concen: 0.187 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV007973.D

Acq: 29 Sep 2018 00:29

Instrument :

MSVOA_V

ClientSampleId :

E62S8

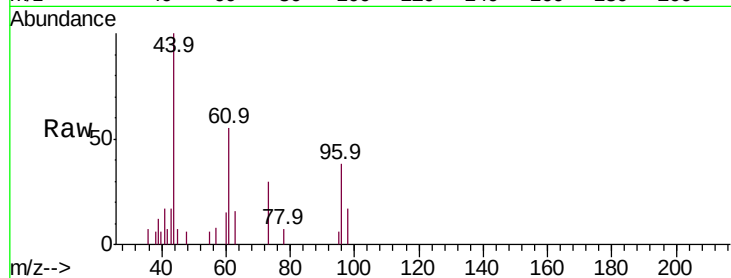
Tot Ion: 96 Resp: 1256

Ion Ratio Lower Upper

96 100

61 143.6 94.2 175.0

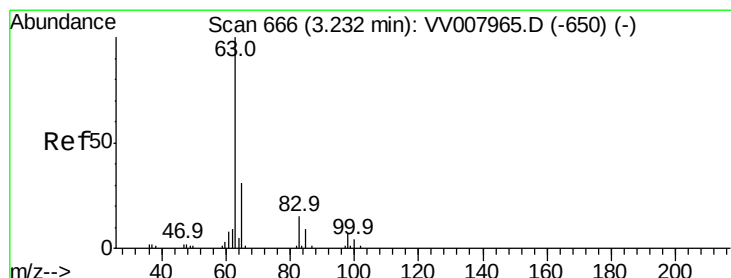
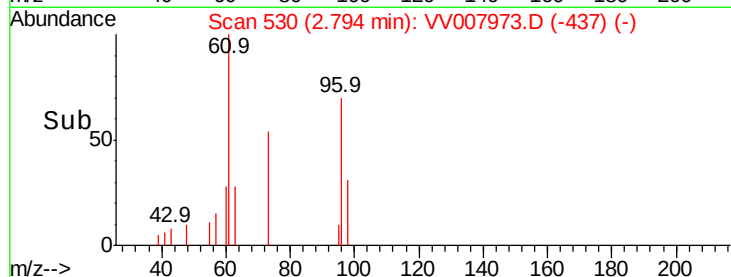
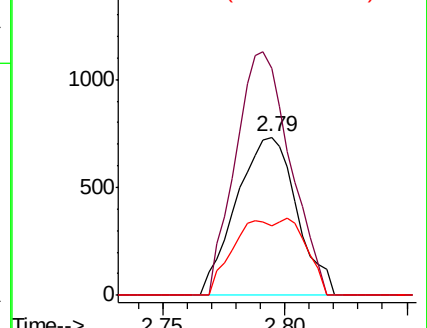
98 44.0 44.9 83.5#



Abundance Ion 96.00 (95.70 to 96.70): VV007973.D (-437) (-)

Ion 61.05 (60.75 to 61.75): VV007973.D (-437) (-)

Ion 97.95 (97.65 to 98.65): VV007973.D (-437) (-)



#19

1,1-Dichloroethane

Concen: 5.180 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.00 min

Lab File: VV007973.D

Acq: 29 Sep 2018 00:29

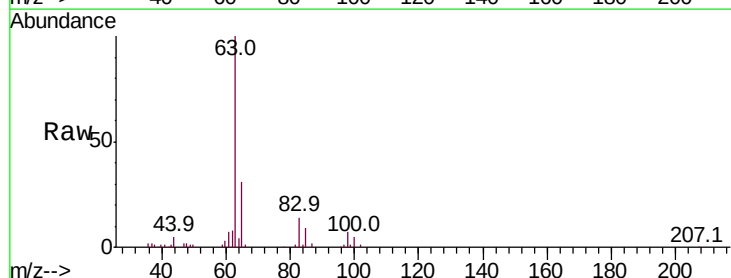
Tgt Ion: 63 Resp: 59290

Ion Ratio Lower Upper

63 100

65 31.2 22.3 41.5

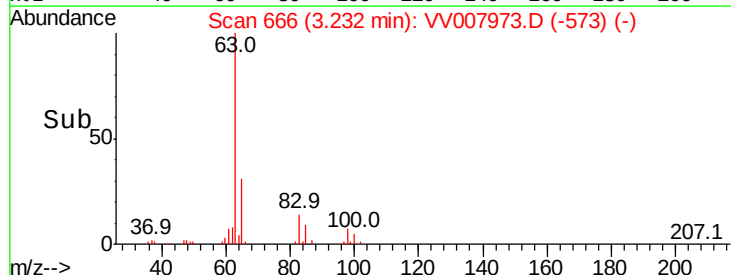
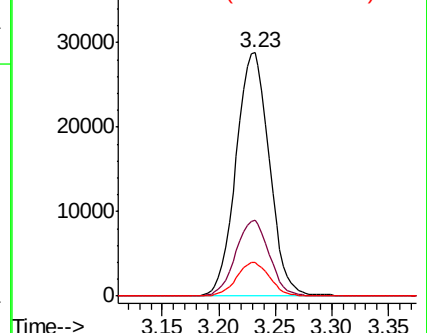
83 13.8 9.8 18.2

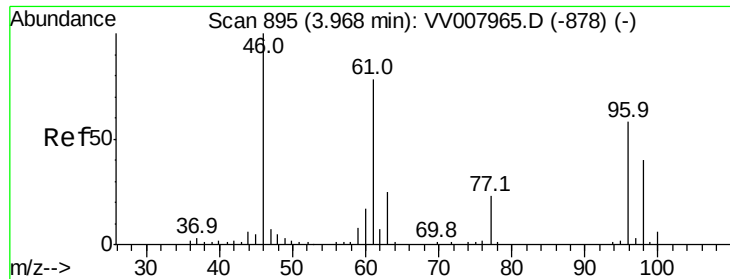


Abundance Ion 63.10 (62.80 to 63.80): VV007973.D (-573) (-)

Ion 65.10 (64.80 to 65.80): VV007973.D (-573) (-)

Ion 83.05 (82.75 to 83.75): VV007973.D (-573) (-)



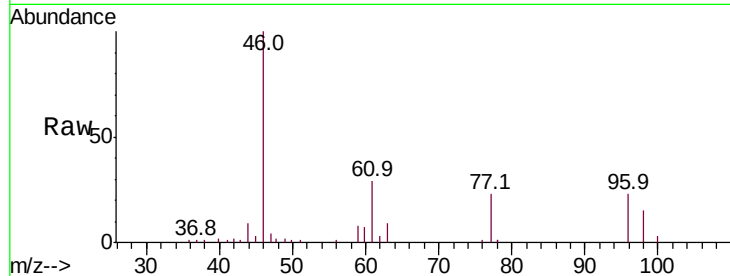


#22

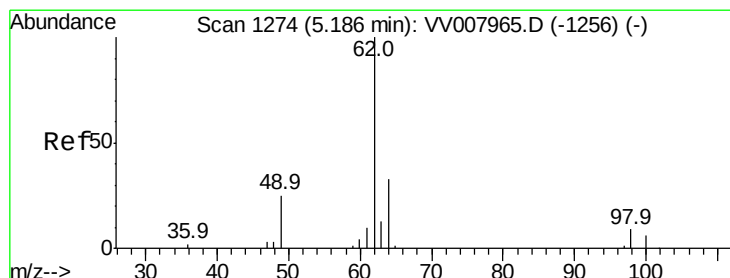
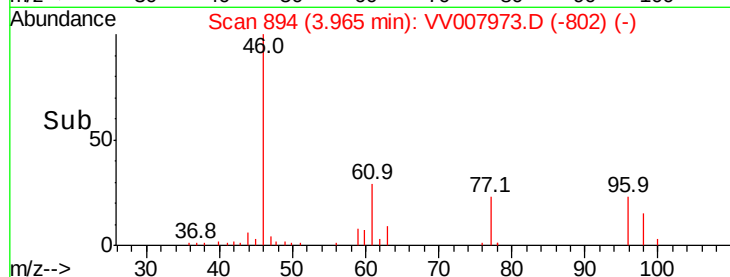
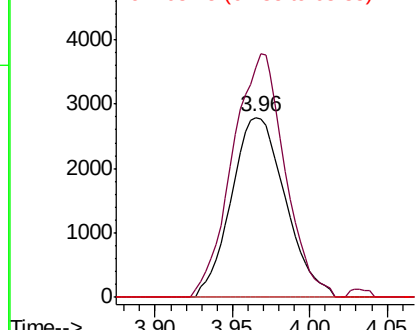
cis-1,2-Dichloroethene
Concen: 0.997 ug/L
RT: 3.96 min Scan# 894
Delta R.T. -0.00 min
Lab File: VV007973.D
Acq: 29 Sep 2018 00:29

Instrument :
MSVOA_V
ClientSampleId :
E62S8

Tot Ion: 96 Resp: 6774
Ion Ratio Lower Upper
96 100
61 127.5 89.5 166.1
68 0.0 0.0 0.0



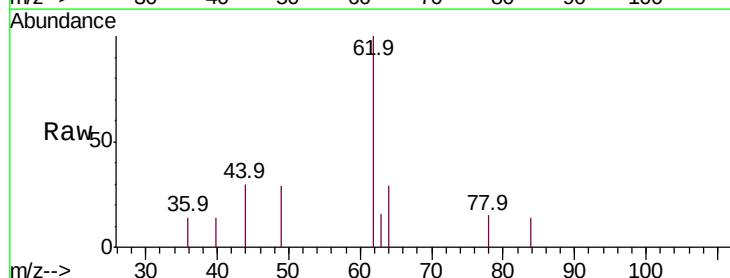
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



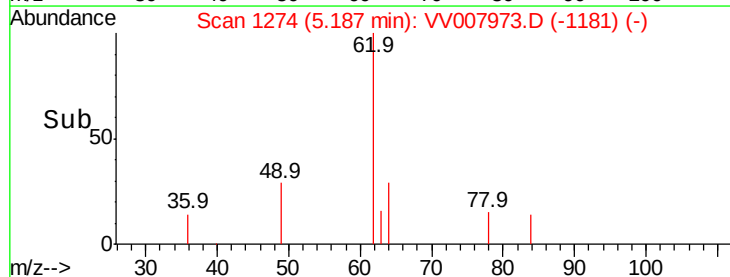
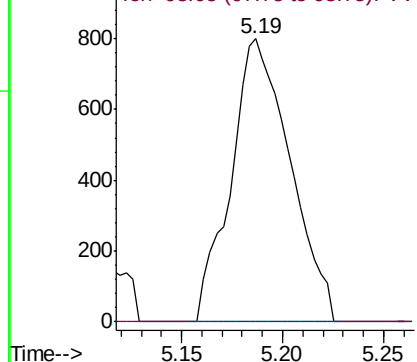
#27

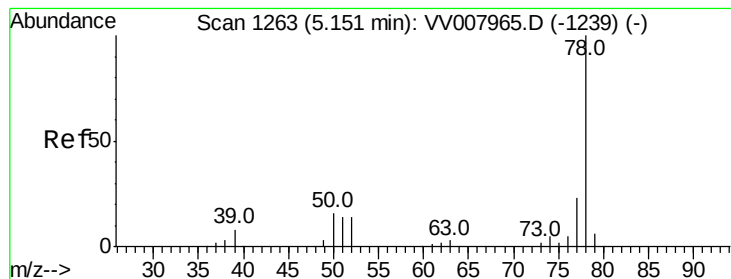
1,2-Dichloroethane
Concen: 0.205 ug/L
RT: 5.19 min Scan# 1274
Delta R.T. 0.00 min
Lab File: VV007973.D
Acq: 29 Sep 2018 00:29

Tgt Ion: 62 Resp: 1637
Ion Ratio Lower Upper
62 100
98 0.0 6.6 10.0#



Abundance Ion 62.00 (61.70 to 62.70): VV0
Ion 98.05 (97.75 to 98.75): VV0





#33

Benzene

Concen: 0.137 ug/L

RT: 5.15 min Scan# 1263

Delta R.T. 0.00 min

Lab File: VV007973.D

Acq: 29 Sep 2018 00:29

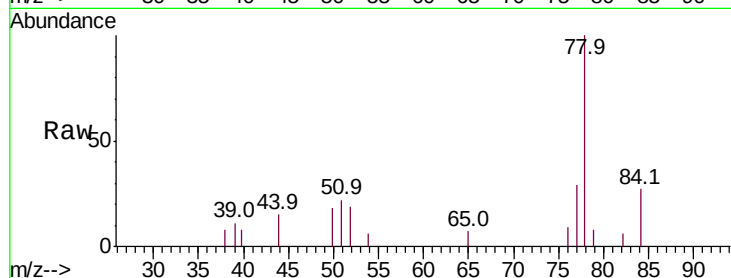
Instrument :

MSVOA_V

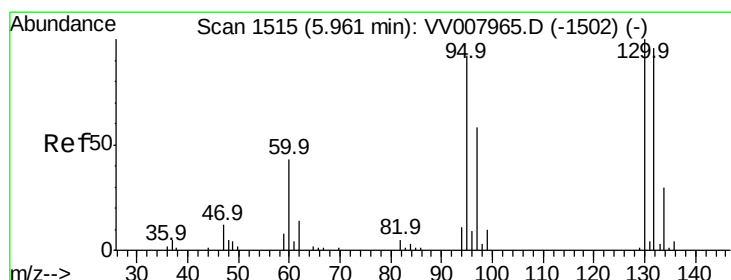
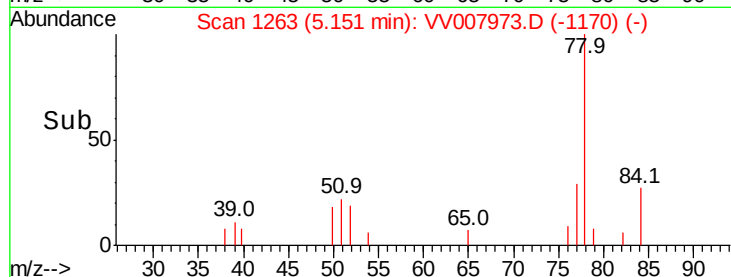
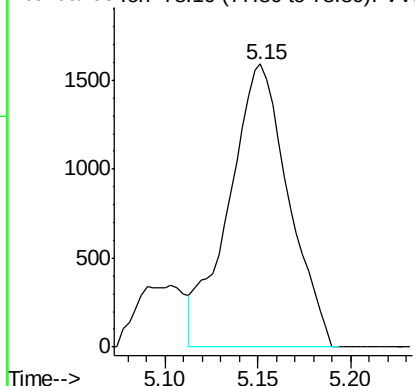
ClientSampleId :

E62S8

Tgt Ion: 78 Resp: 3553



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 37.689 ug/L

RT: 5.96 min Scan# 1515

Delta R.T. 0.00 min

Lab File: VV007973.D

Acq: 29 Sep 2018 00:29

Tgt Ion: 95 Resp: 279987

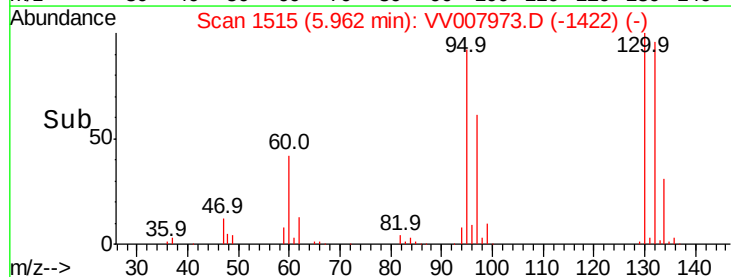
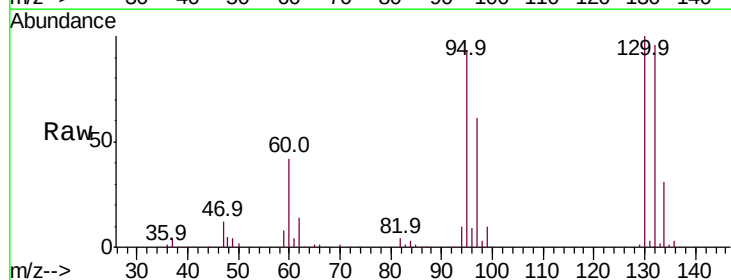
Ion	Ratio	Lower	Upper
95	100		
97	65.1	43.6	81.0
132	103.5	69.9	129.9
130	107.5	71.7	133.3

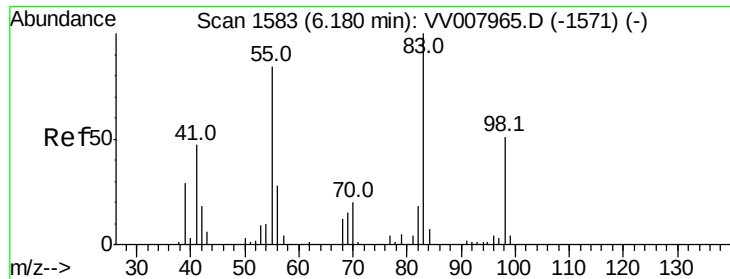
Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0

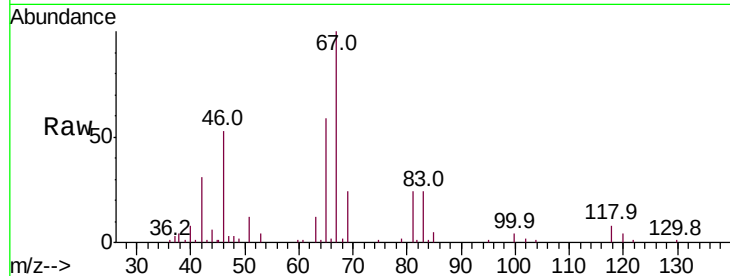




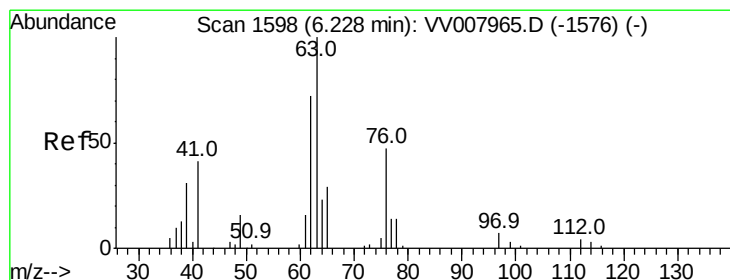
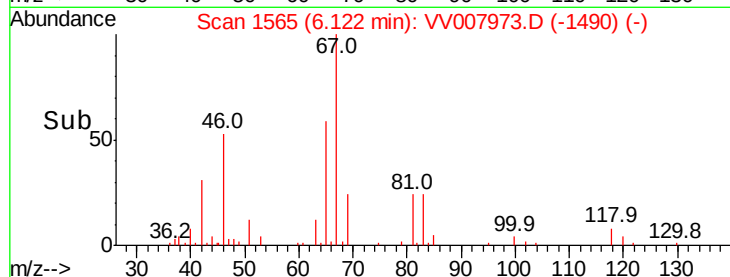
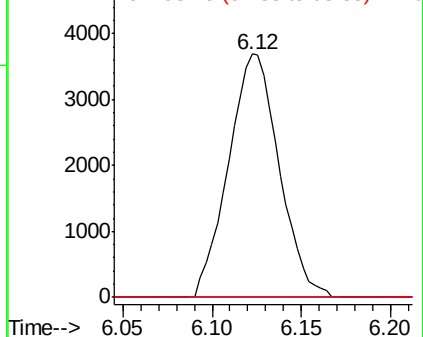
#35
Methylvlcyclohexane
Concen: 0.653 ug/L
RT: 6.12 min Scan# 1565
Delta R.T. -0.06 min
Lab File: VV007973.D
Acq: 29 Sep 2018 00:29

Instrument :
MSVOA_V
ClientSampleId :
E62S8

Tot Ion: 83 Resp: 7279
Ion Ratio Lower Upper
83 100
55 0.0 62.2 93.2#
98 7.7 38.0 57.0#

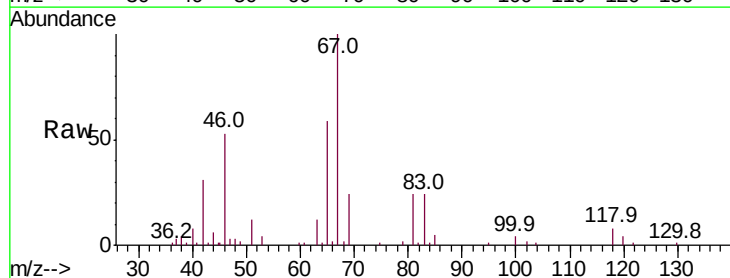


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

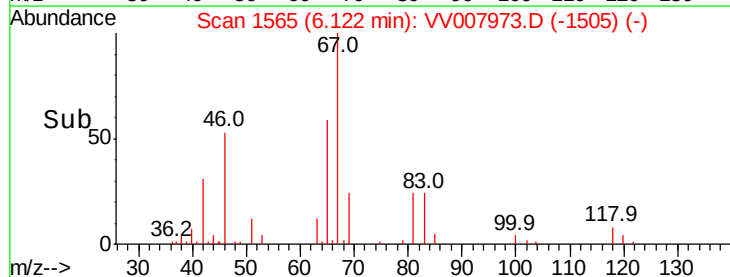
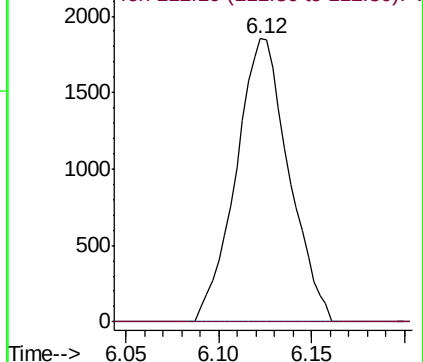


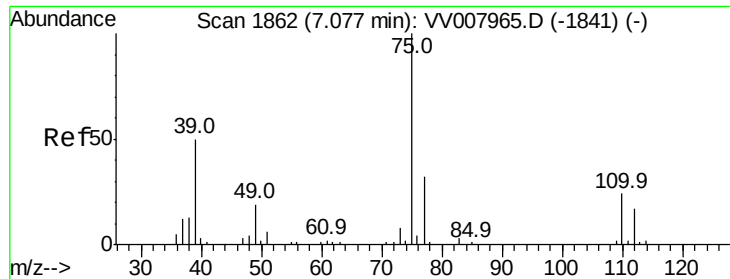
#37
1,2-Dichloropropane
Concen: 0.554 ug/L
RT: 6.12 min Scan# 1565
Delta R.T. -0.11 min
Lab File: VV007973.D
Acq: 29 Sep 2018 00:29

Tgt Ion: 63 Resp: 3673
Ion Ratio Lower Upper
63 100
112 0.0 3.4 5.0#



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 112.10 (111.80 to 112.80): V

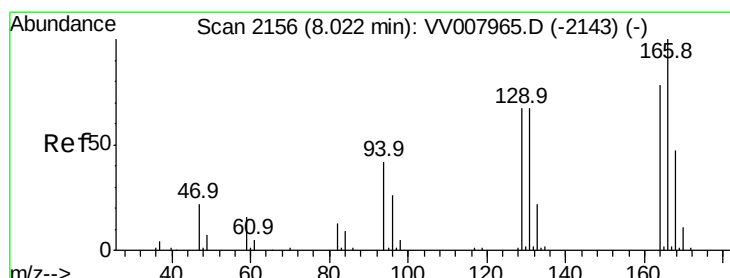
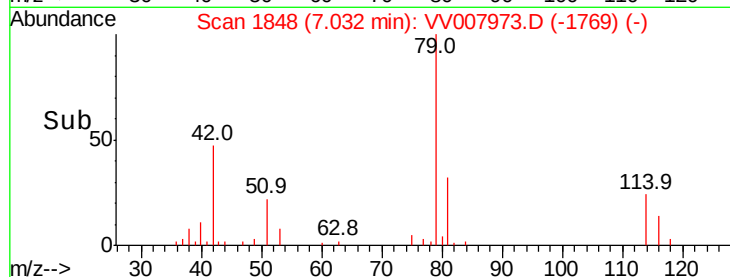
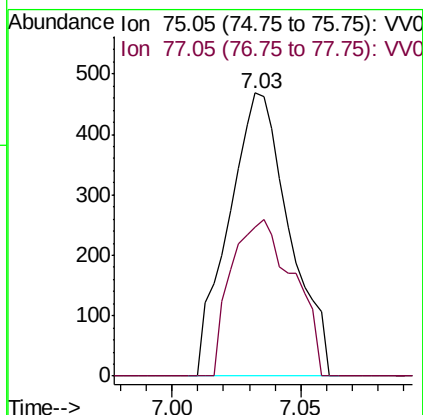
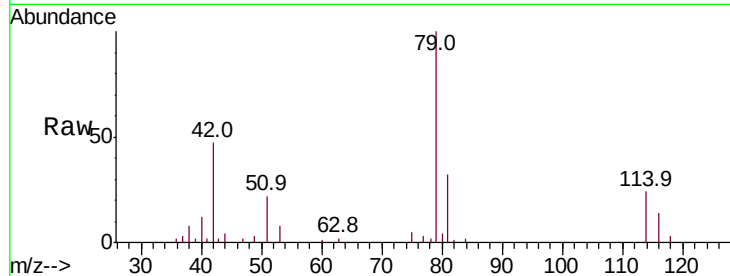




#39
 cis-1,3-Dichloropropene
 Concen: 0.087 ug/L
 RT: 7.03 min Scan# 1848
 Delta R.T. -0.04 min
 Lab File: VV007973.D
 Acq: 29 Sep 2018 00:29

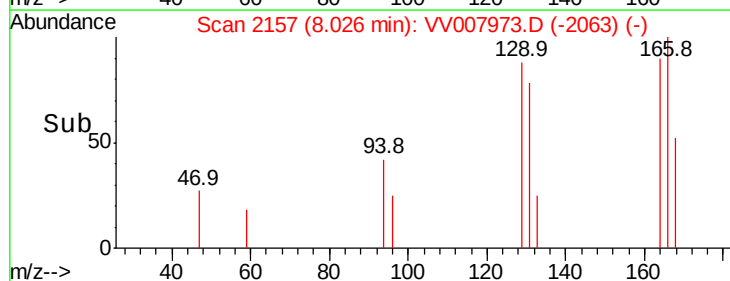
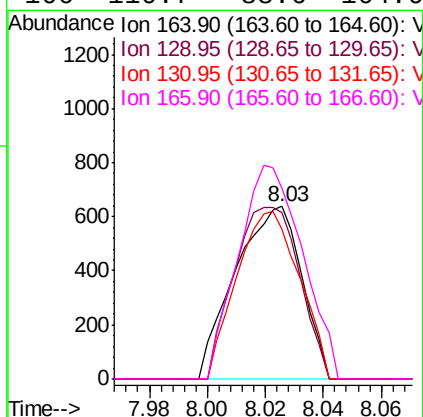
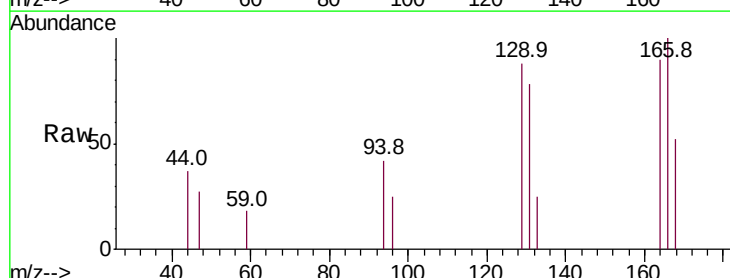
Instrument :
 MSVOA_V
 ClientSampled :
 E62S8

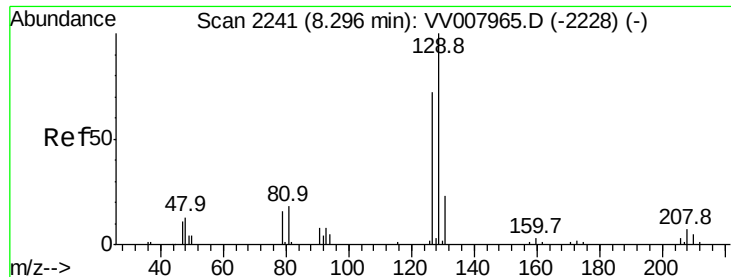
Tot Ion: 75 Resp: 769
 Ion Ratio Lower Upper
 75 100
 77 52.8 22.9 42.5#



#47
 Tetrachloroethene
 Concen: 0.148 ug/L
 RT: 8.03 min Scan# 2157
 Delta R.T. 0.00 min
 Lab File: VV007973.D
 Acq: 29 Sep 2018 00:29

Tgt Ion: 164 Resp: 1016
 Ion Ratio Lower Upper
 164 100
 129 96.9 59.2 110.0
 131 86.8 57.1 106.1
 166 110.7 88.6 164.6





#49

Dibromochloromethane

Concen: 0.175 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. -0.28 min

Lab File: VV007973.D

Acq: 29 Sep 2018 00:29

Instrument :

MSVOA_V

ClientSampled :

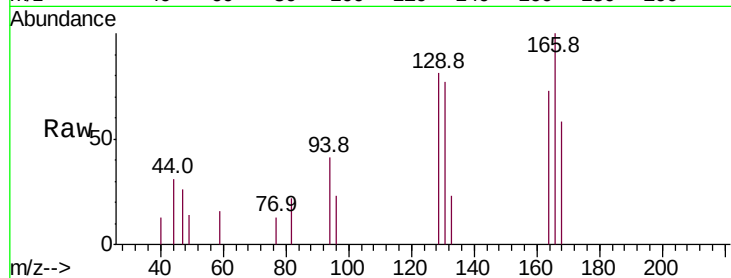
E62S8

Tot Ion:129 Resp: 957

Ion Ratio Lower Upper

129 100

127 0.0 53.1 98.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

8.02

600

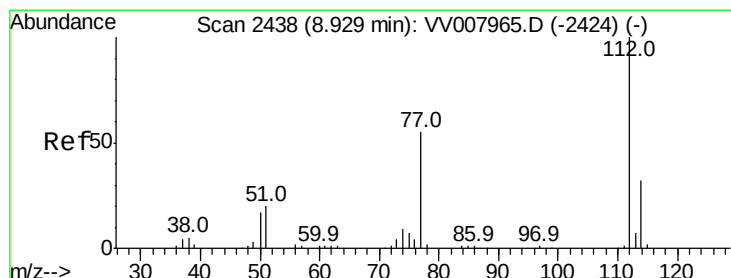
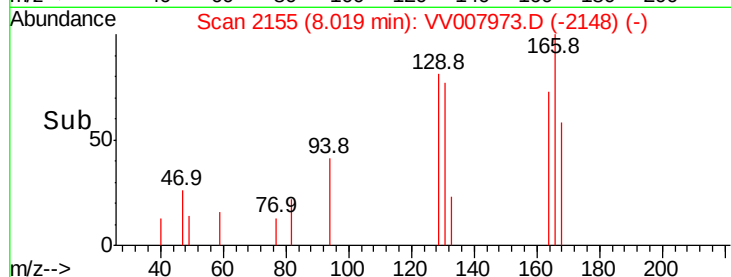
400

200

0

8.00 8.02 8.04 8.06

Time-->



#51

Chlorobenzene

Concen: 234.805 ug/L

RT: 8.93 min Scan# 2439

Delta R.T. 0.00 min

Lab File: VV007973.D

Acq: 29 Sep 2018 00:29

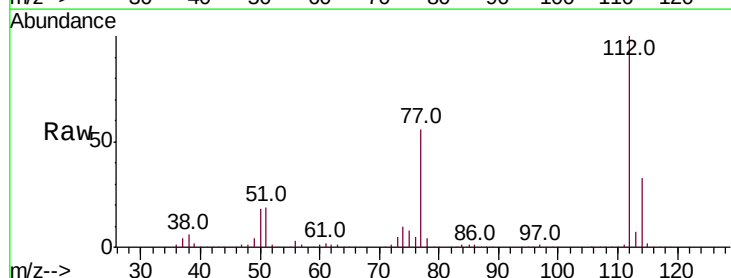
Tgt Ion:112 Resp: 4582399

Ion Ratio Lower Upper

112 100

114 33.4 22.4 41.6

77 55.8 45.0 67.6



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

4000000

3000000

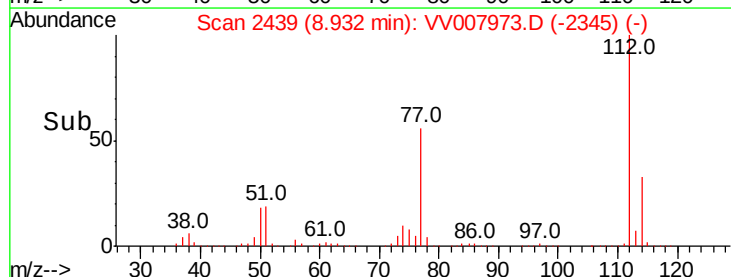
2000000

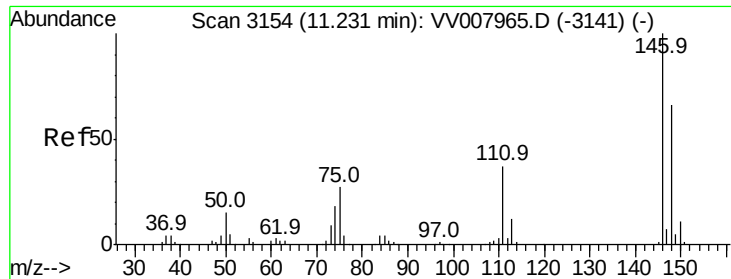
1000000

0

8.80 8.90 9.00 9.10

Time-->





#62

1,3-Dichlorobenzene

Concen: 0.082 ug/L

RT: 11.23 min Scan# 3154

Delta R.T. 0.00 min

Lab File: VV007973.D

Acq: 29 Sep 2018 00:29

Instrument :

MSVOA_V

ClientSampled :

E62S8

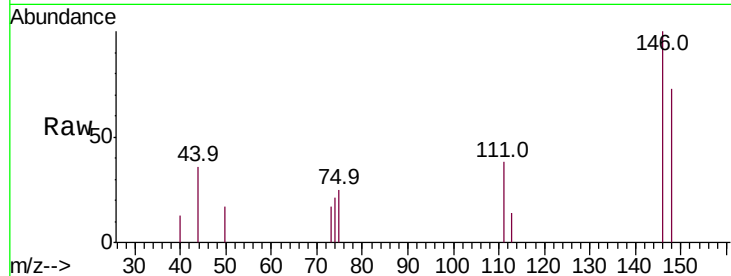
Tot Ion:146 Resp: 1213

Ion Ratio Lower Upper

146 100

111 38.2 25.8 48.0

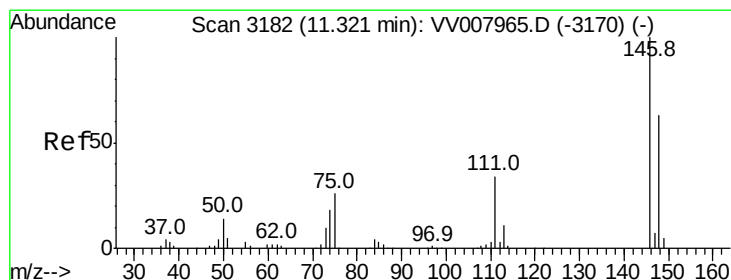
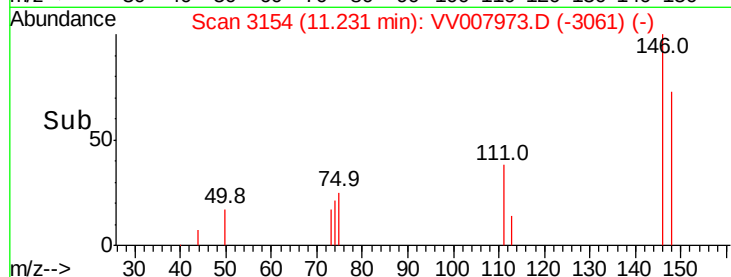
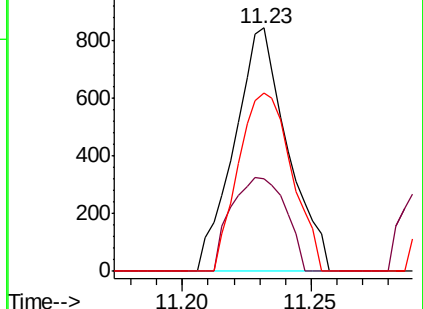
148 73.1 44.7 82.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 0.271 ug/L

RT: 11.32 min Scan# 3182

Delta R.T. 0.00 min

Lab File: VV007973.D

Acq: 29 Sep 2018 00:29

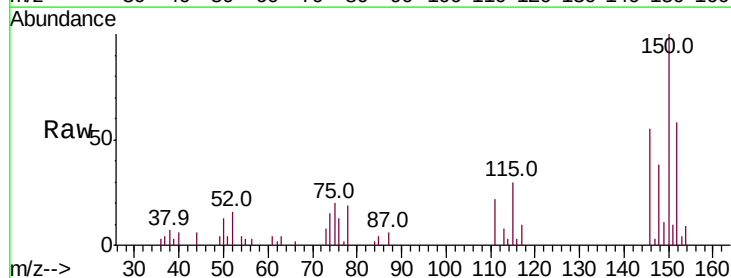
Tgt Ion:146 Resp: 4189

Ion Ratio Lower Upper

146 100

111 40.3 25.3 47.1

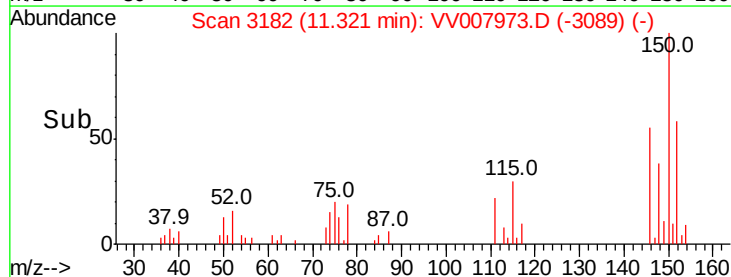
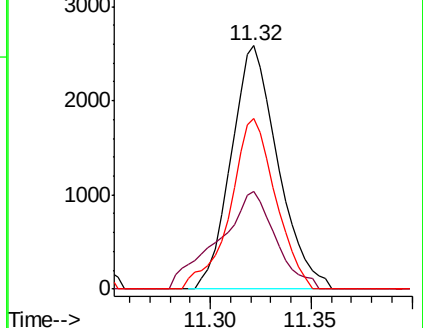
148 69.9 44.7 82.9

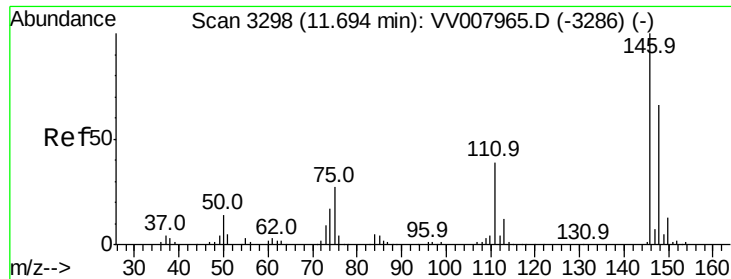


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 0.239 ug/L

RT: 11.70 min Scan# 3299

Delta R.T. 0.00 min

Lab File: VV007973.D

Acq: 29 Sep 2018 00:29

Instrument :

MSVOA_V

ClientSampleId :

E62S8

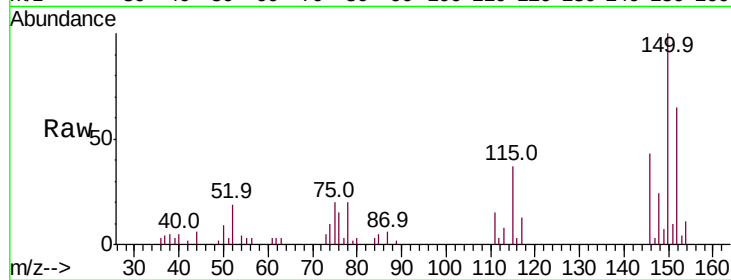
Tot Ion:146 Resp: 3357

Ion Ratio Lower Upper

146 100

111 41.1 31.2 46.8

148 55.8 50.3 75.5



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

