

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052820\
 Data File : VV016268.D
 Acq On : 28 May 2020 11:45
 Operator : SY/MD
 Sample : L2755-13
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 29 01:13:15 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri May 29 01:10:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	87903	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	83922	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	38875	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	22731	4.03	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	80.60%
7) Chloroethane-d5	1.58	69	22240	4.48	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.60%
11) 1,1-Dichloroethene-d2	2.13	63	34444	3.25	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.00%
20) 2-Butanone-d5	3.94	46	74207	52.99	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	105.98%
24) Chloroform-d	4.38	84	49597	4.41	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.20%
26) 1,2-Dichloroethane-d4	5.06	65	29409	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.80%
32) Benzene-d6	5.08	84	99169	4.77	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.40%
36) 1,2-Dichloropropane-d6	6.10	67	31412	4.88	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.60%
41) Toluene-d8	7.34	98	89687	4.53	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	90.60%
45) trans-1,3-Dichloropropene-	7.65	79	10282	4.29	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	85.80%
48) 2-Hexanone-d5	8.12	63	55001	50.02	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	100.04%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	22563	4.75	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	95.00%
65) 1,2-Dichlorobenzene-d4	11.65	152	32367	4.99	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Acetone	2.21	43	5954	6.869	ug/L	90
14) Carbon disulfide	2.31	76	1691	0.105	ug/L #	86
15) Methyl Acetate	2.46	43	4194	1.893	ug/L #	89
16) Methylene chloride	2.53	84	738	0.124	ug/L	90
21) 2-Butanone	4.11	43	767447	497.689	ug/L #	57
22) cis-1,2-Dichloroethene	3.94	96	8230	1.226	ug/L	99
25) Chloroform	4.40	83	5183	0.454	ug/L	96
27) 1,2-Dichloroethane	5.08	62	635	0.085	ug/L #	79
33) Benzene	5.13	78	4283	0.177	ug/L	100
34) Trichloroethene	5.94	95	26210	4.166	ug/L	98
35) Methylcyclohexane	6.10	83	7802	0.735	ug/L #	16
37) 1,2-Dichloropropane	6.10	63	3978	0.672	ug/L #	88
39) cis-1,3-Dichloropropene	7.01	75	894	0.107	ug/L #	77
42) Toluene	7.41	91	6153	0.234	ug/L	98
46) trans-1,3-Dichloropropene	7.65	75	524	0.075	ug/L	91
47) 1,1,2-Trichloroethane	7.99	97	3429	0.880	ug/L #	16
49) Tetrachloroethene	8.00	164	320490	70.956	ug/L	98

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ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :

Quant Time: May 29 01:13:15 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 29 01:10:53 2020
Response via : Initial Calibration

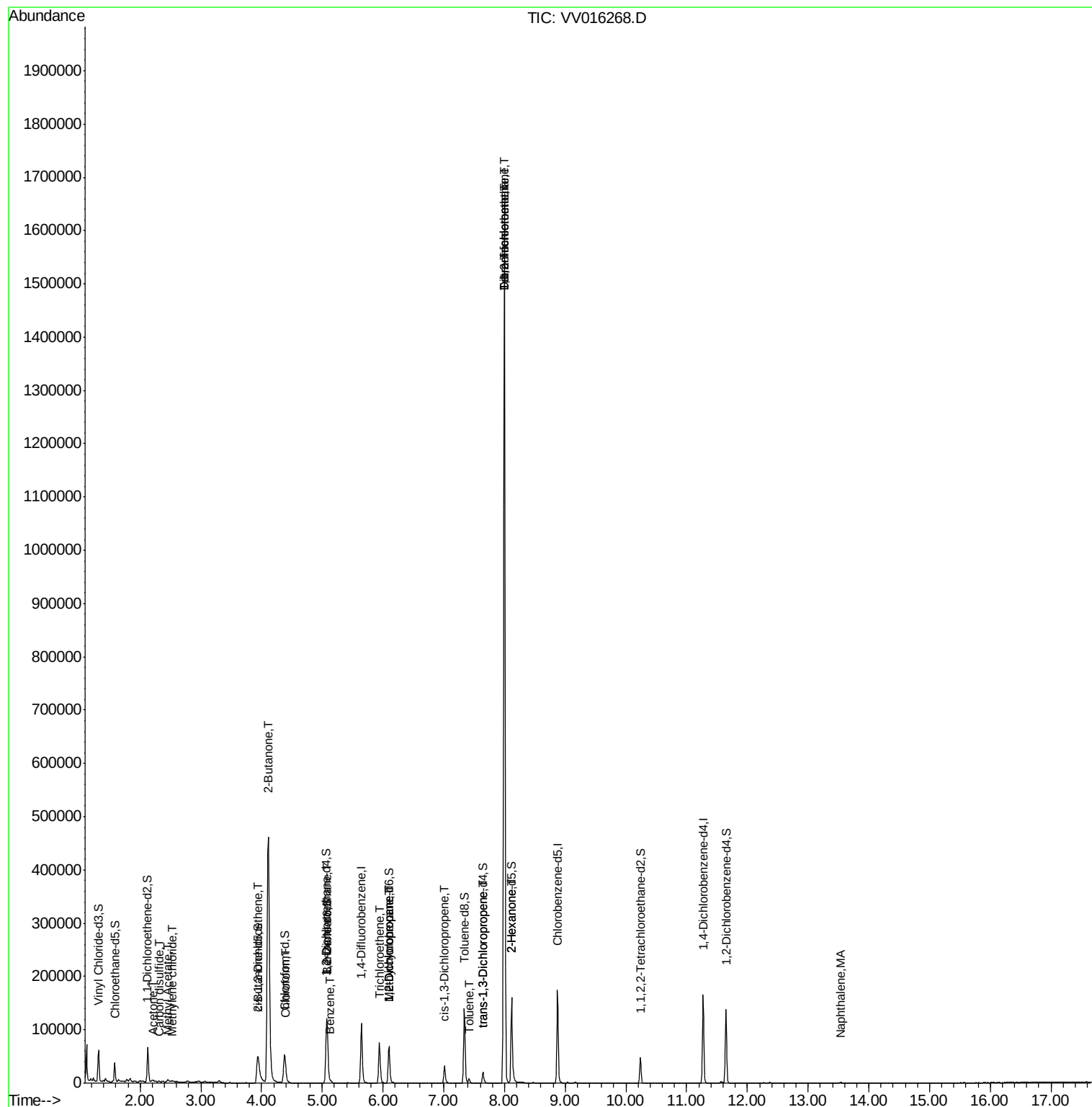
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone	8.12	43	7226	2.812	ug/L #	72
51) Dibromochloromethane	8.00	129	320130	77.583	ug/L #	10
70) Naphthalene	13.53	128	1330	0.083	ug/L #	91

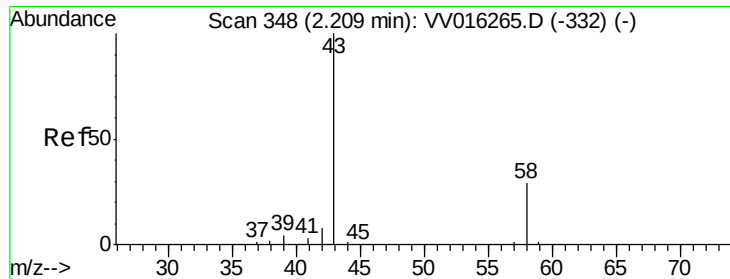
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 29 01:10:53 2020
Response via : Initial Calibration





#13

Acetone

Concen: 6.869 ug/L

RT: 2.21 min Scan# 349

Delta R.T. 0.00 min

Lab File: VV016268.D

Acq: 28 May 2020 11:45

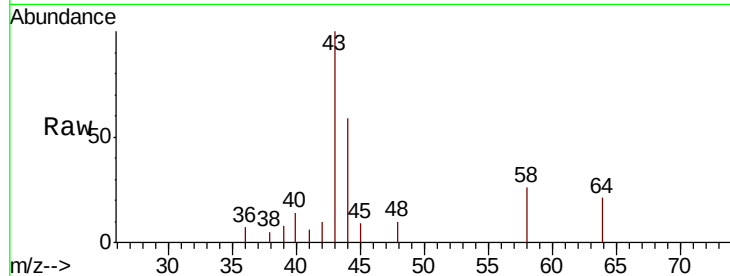
Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 43 Resp: 5954

Ion Ratio Lower Upper

43 100

58 29.4 0.0 48.8



Abundance Ion 43.05 (42.75 to 43.75): VV016268.D (-255) (-)

Ion 58.05 (57.75 to 58.75): VV016268.D (-255) (-)

2500

2000

1500

1000

500

0

Time--> 2.10 2.15 2.20 2.25 2.30

2.21

2.21

2.21

2.21

2.21

2.21

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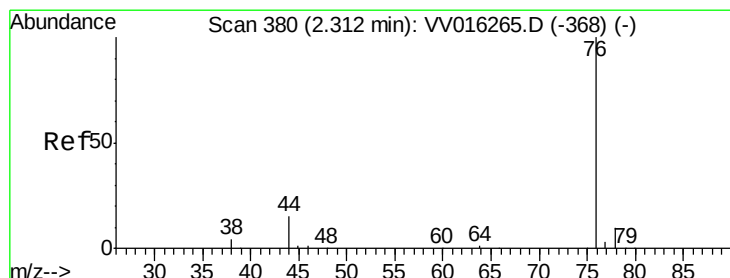
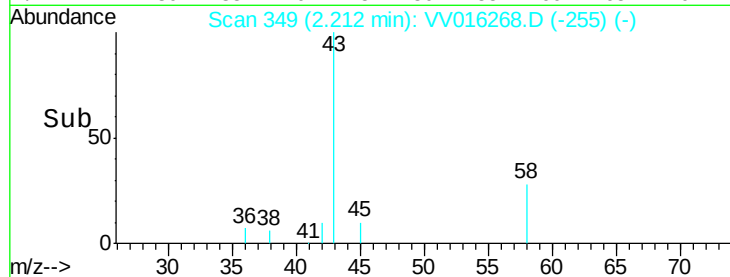
2.21

2.21

2.21

2.21

2.21



#14

Carbon disulfide

Concen: 0.105 ug/L

RT: 2.31 min Scan# 380

Delta R.T. -0.00 min

Lab File: VV016268.D

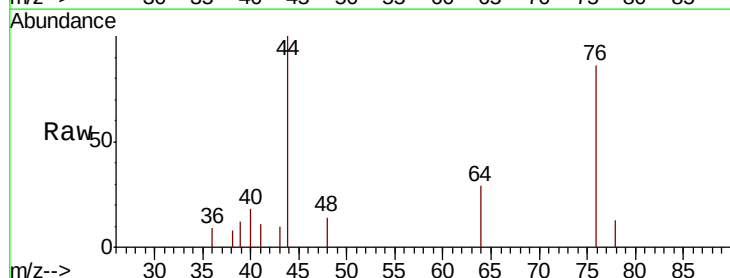
Acq: 28 May 2020 11:45

Tgt Ion: 76 Resp: 1691

Ion Ratio Lower Upper

76 100

78 14.5 7.4 11.0#



Abundance Ion 76.05 (75.75 to 76.75): VV016268.D (-287) (-)

Ion 78.00 (77.70 to 78.70): VV016268.D (-287) (-)

1200

1000

800

600

400

200

0

Time--> 2.30 2.35

2.31

2.31

2.31

2.31

2.31

2.31

2.31

2.31

2.31

2.31

2.31

2.31

2.31

2.31

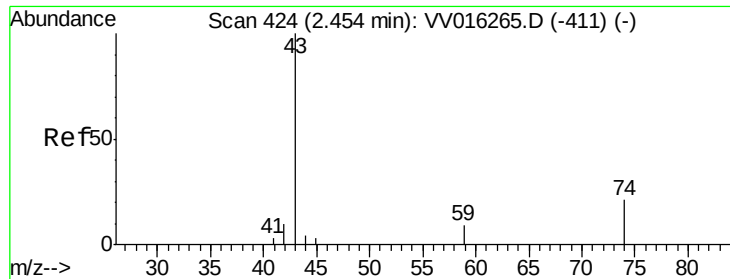
2.31

2.31

2.31

2.31

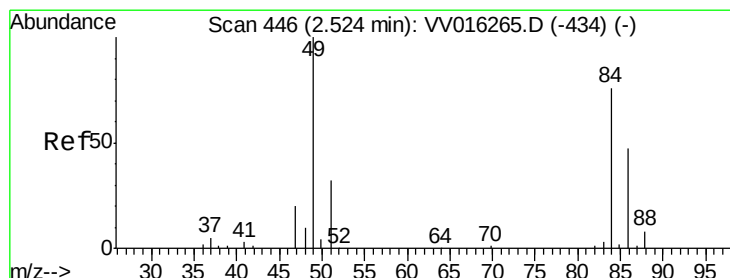
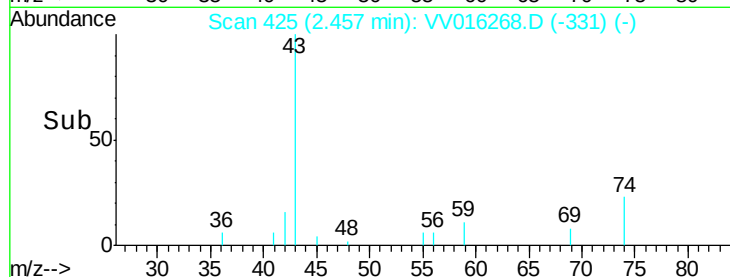
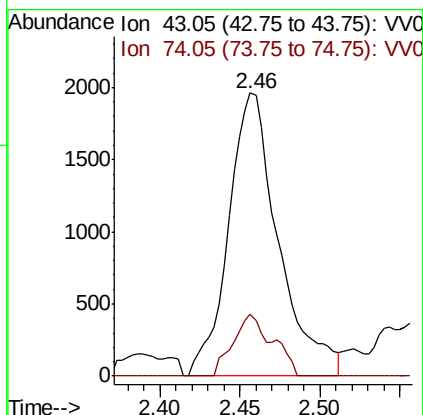
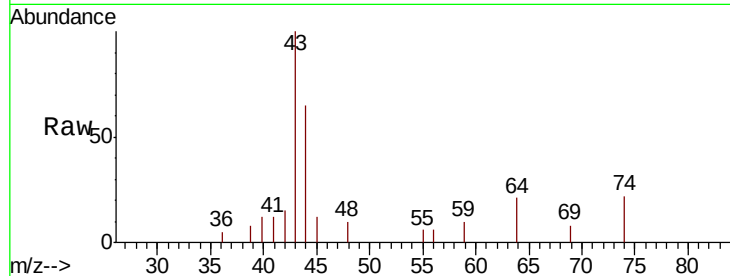
2.31



#15
Methvl Acetate
Concen: 1.893 ug/L
RT: 2.46 min Scan# 425
Delta R.T. 0.00 min
Lab File: VV016268.D
Acq: 28 May 2020 11:45

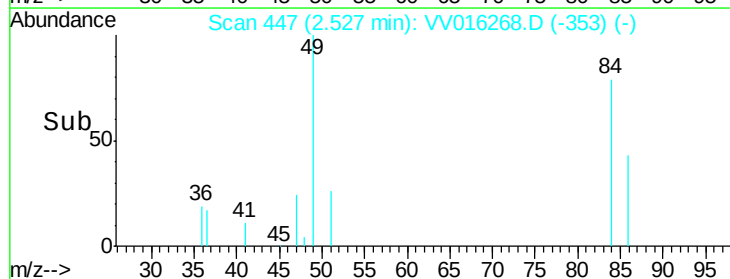
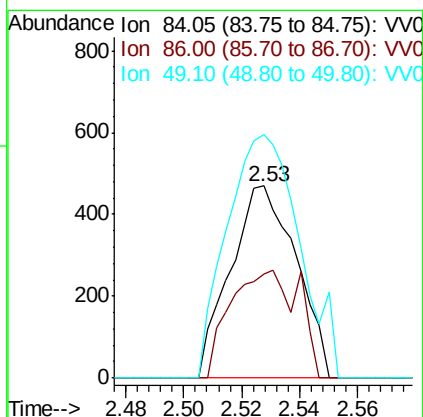
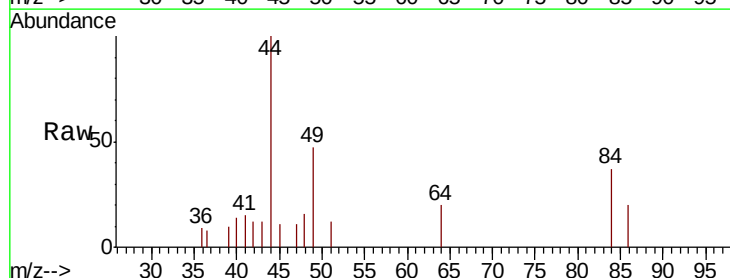
Instrument :
MSVOA_V
ClientSampleId :

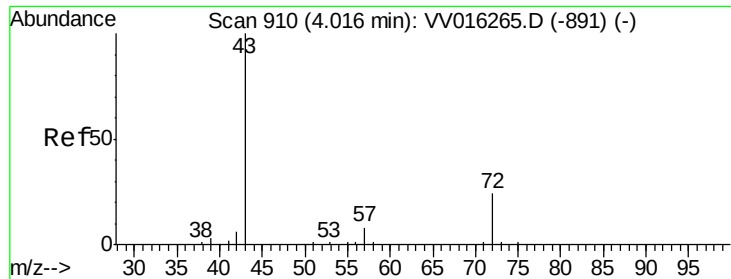
Tot Ion: 43 Resp: 4194
Ion Ratio Lower Upper
43 100
74 17.1 18.1 27.1#



#16
Methylene chloride
Concen: 0.124 ug/L
RT: 2.53 min Scan# 447
Delta R.T. 0.00 min
Lab File: VV016268.D
Acq: 28 May 2020 11:45

Tgt Ion: 84 Resp: 738
Ion Ratio Lower Upper
84 100
86 54.4 44.9 83.5
49 126.9 96.7 179.7





#21

2-Butanone

Concen: 497.689 ug/L

RT: 4.11 min Scan# 939

Delta R.T. 0.09 min

Lab File: VV016268.D

Acq: 28 May 2020 11:45

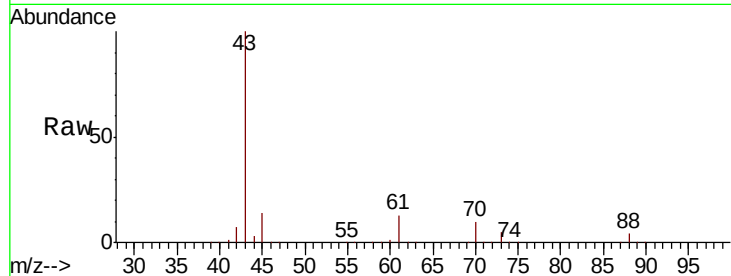
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 767447

Ion Ratio Lower Upper

43 100

72 0.0 9.7 28.9#



Abundance Ion 43.00 (42.70 to 43.70): VV016268.D (-817) (-)

Ion 72.00 (71.70 to 72.70): VV016268.D (-817) (-)

4.11

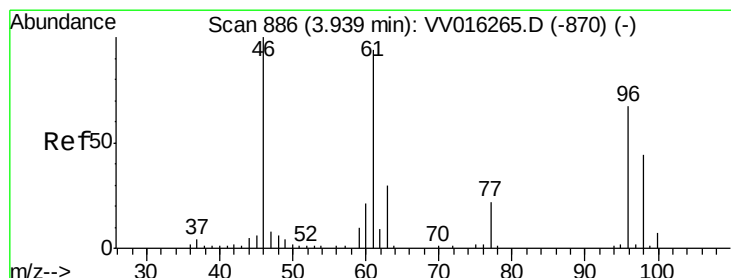
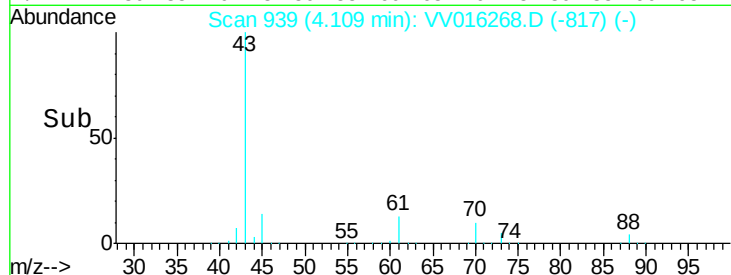
300000

200000

100000

0

Time-->



#22

cis-1,2-Dichloroethene

Concen: 1.226 ug/L

RT: 3.94 min Scan# 886

Delta R.T. -0.00 min

Lab File: VV016268.D

Acq: 28 May 2020 11:45

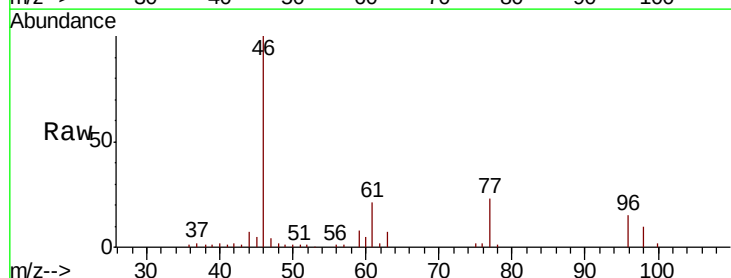
Tgt Ion: 96 Resp: 8230

Ion Ratio Lower Upper

96 100

61 141.3 99.7 185.1

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VV016268.D (-793) (-)

Ion 61.05 (60.75 to 61.75): VV016268.D (-793) (-)

Ion 68.15 (67.85 to 68.85): VV016268.D (-793) (-)

3.94

6000

5000

4000

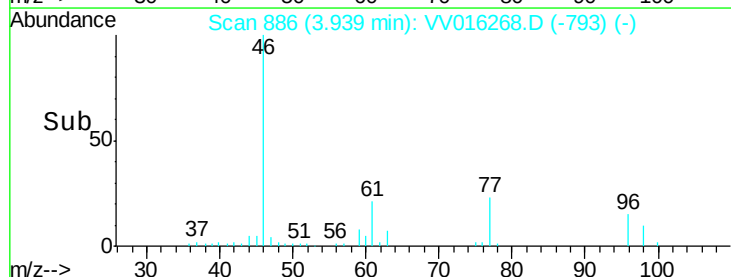
3000

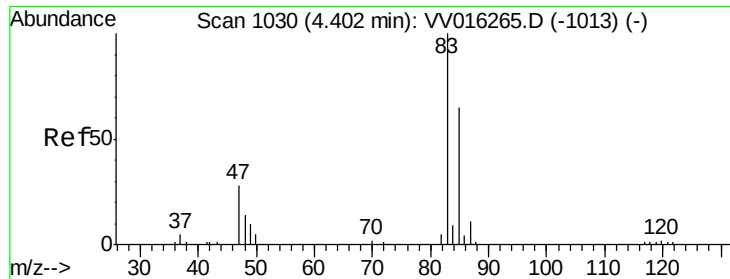
2000

1000

0

Time-->

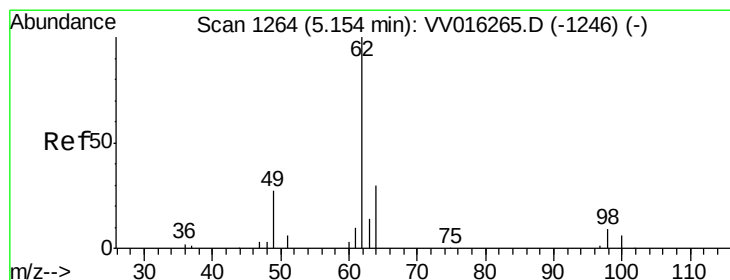
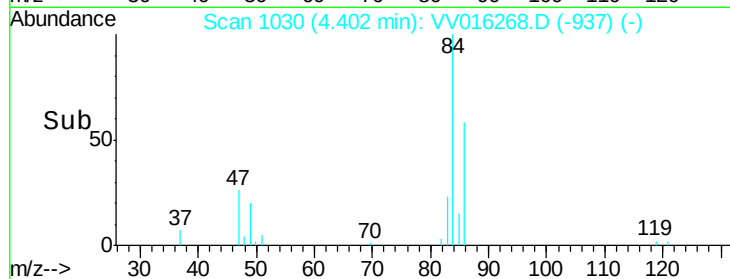
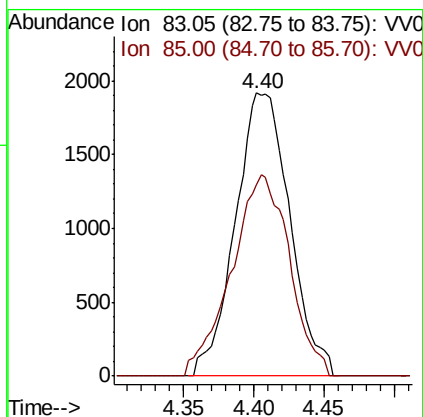
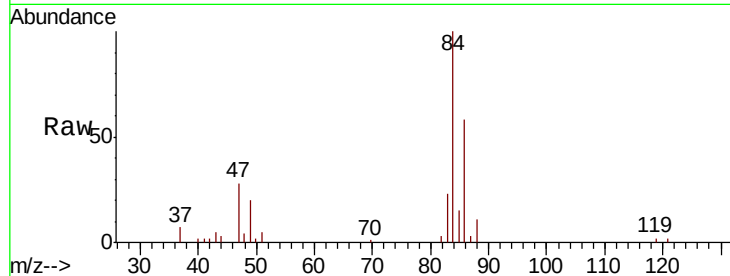




#25
Chloroform
Concen: 0.454 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. -0.00 min
Lab File: VV016268.D
Acq: 28 May 2020 11:45

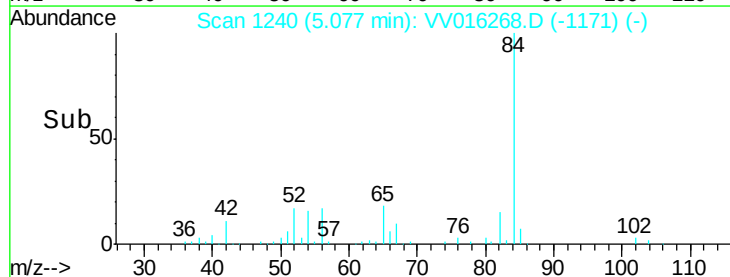
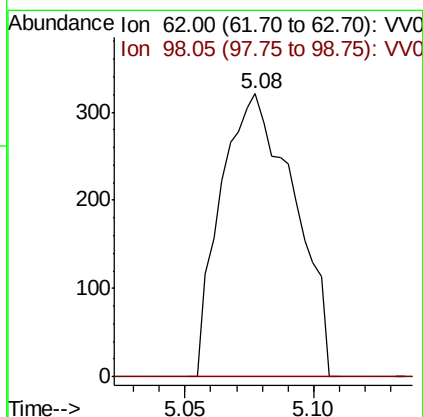
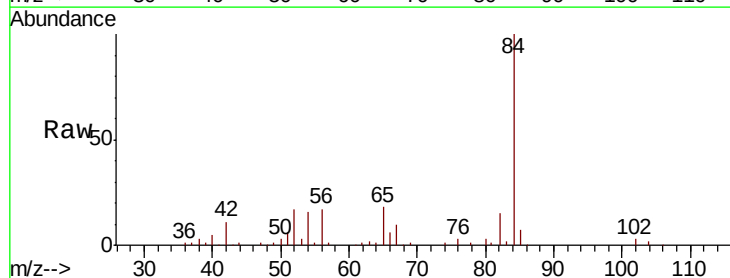
Instrument :
MSVOA_V
ClientSampleId :

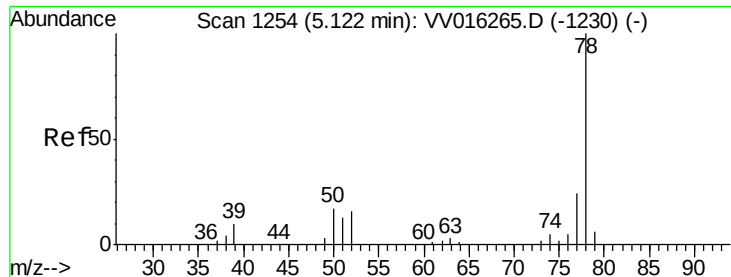
Tot Ion: 83 Resp: 5183
Ion Ratio Lower Upper
83 100
85 67.5 45.1 83.7



#27
1,2-Dichloroethane
Concen: 0.085 ug/L
RT: 5.08 min Scan# 1240
Delta R.T. -0.08 min
Lab File: VV016268.D
Acq: 28 May 2020 11:45

Tgt Ion: 62 Resp: 635
Ion Ratio Lower Upper
62 100
98 0.0 5.7 8.5#

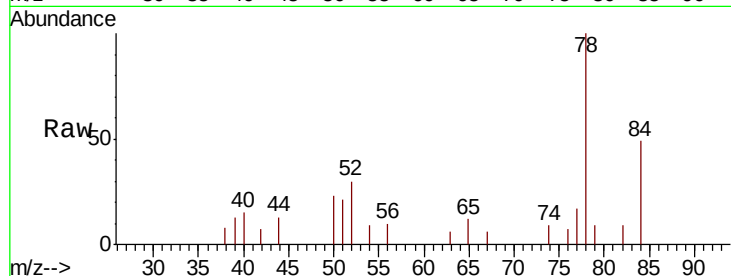




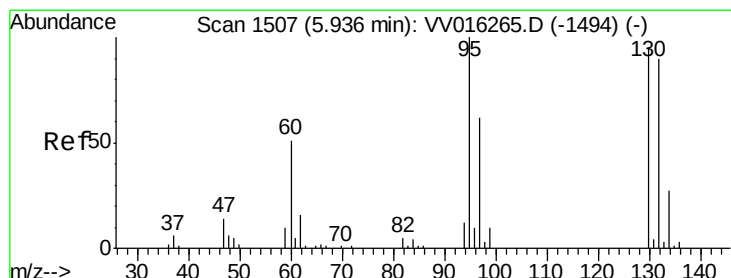
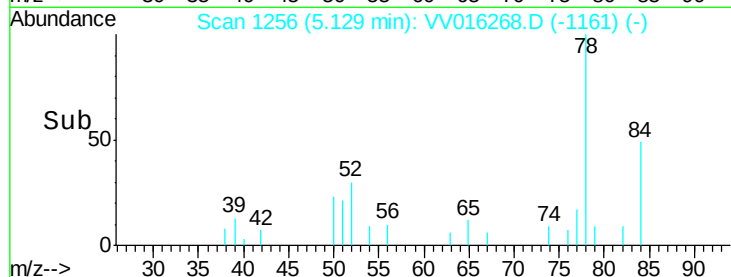
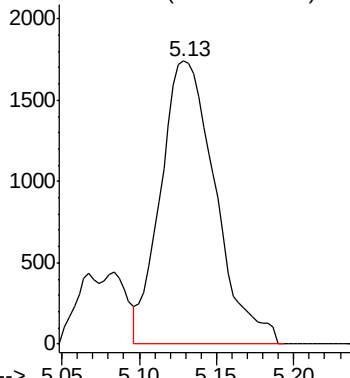
#33
Benzene
Concen: 0.177 ug/L
RT: 5.13 min Scan# 1256
Delta R.T. 0.01 min
Lab File: VV016268.D
Acq: 28 May 2020 11:45

Instrument :
MSVOA_V
ClientSampled :

Tgt Ion: 78 Resp: 4283



Abundance Ion 78.10 (77.80 to 78.80): VV0

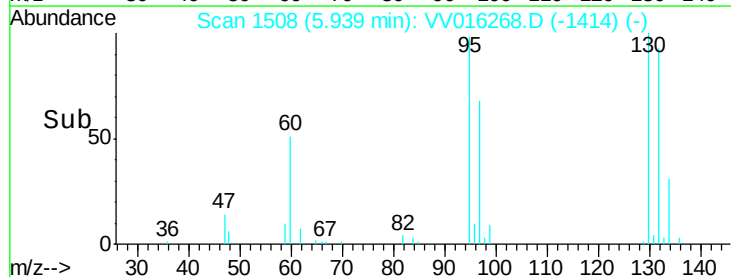
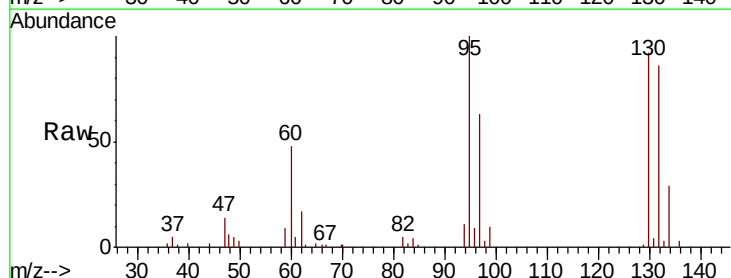
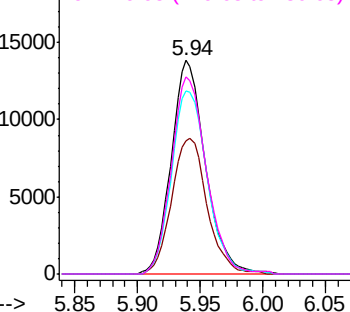


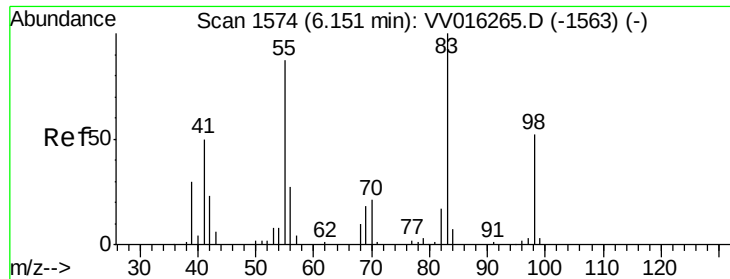
#34
Trichloroethene
Concen: 4.166 ug/L
RT: 5.94 min Scan# 1508
Delta R.T. 0.00 min
Lab File: VV016268.D
Acq: 28 May 2020 11:45

Tgt Ion: 95 Resp: 26210
Ion Ratio Lower Upper
95 100
97 62.6 43.6 81.0
132 85.9 63.9 118.7
130 92.4 65.2 121.0

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

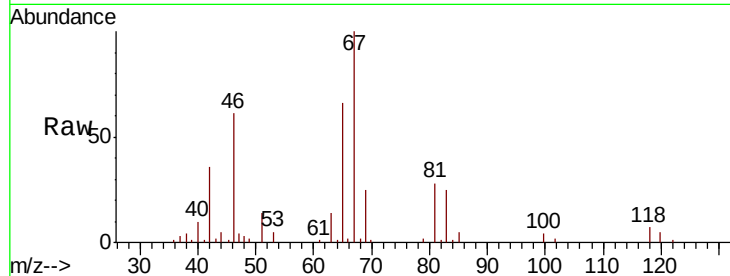




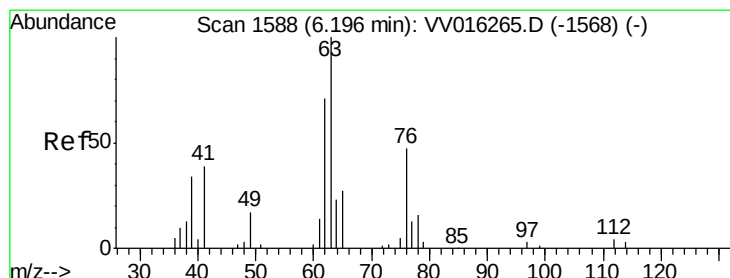
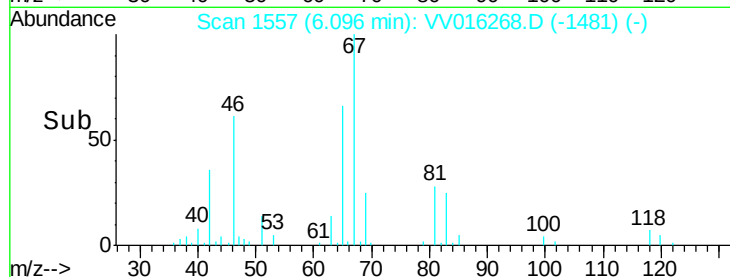
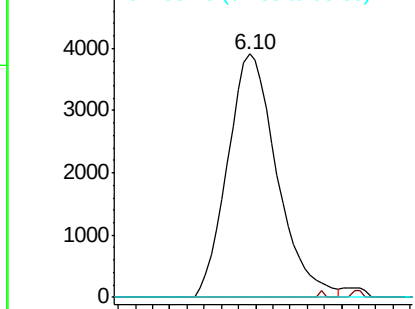
#35
Methylvlcyclohexane
Concen: 0.735 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.05 min
Lab File: VV016268.D
Acq: 28 May 2020 11:45

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 83 Resp: 7802
Ion Ratio Lower Upper
83 100
55 0.3 65.4 98.0#
98 0.0 39.3 58.9#

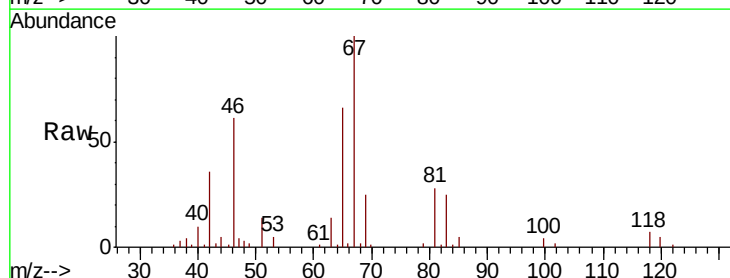


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

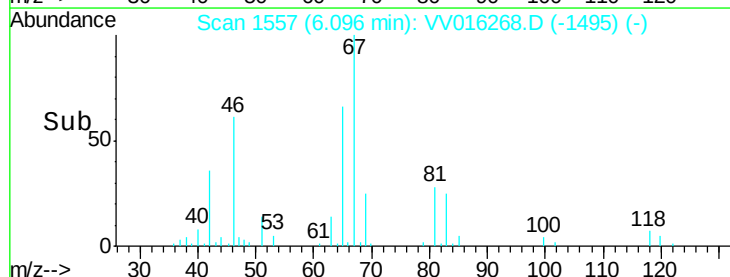
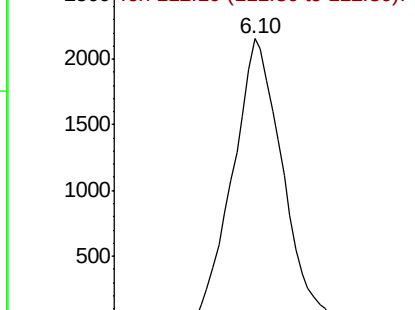


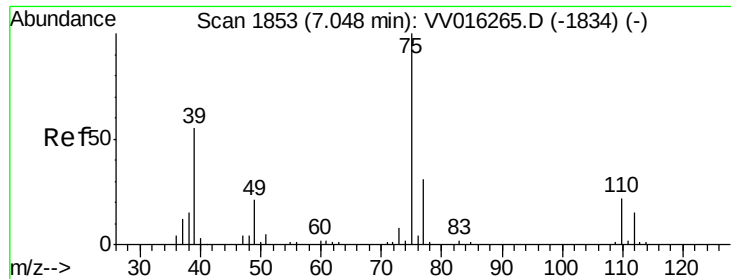
#37
1,2-Dichloropropane
Concen: 0.672 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.10 min
Lab File: VV016268.D
Acq: 28 May 2020 11:45

Tgt Ion: 63 Resp: 3978
Ion Ratio Lower Upper
63 100
112 0.0 3.1 4.7#



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

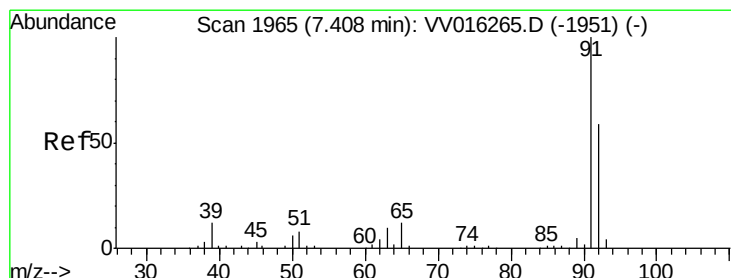
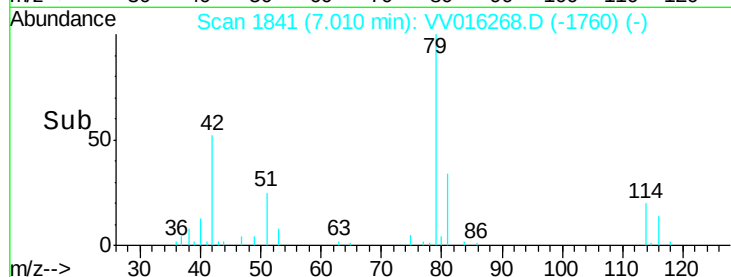
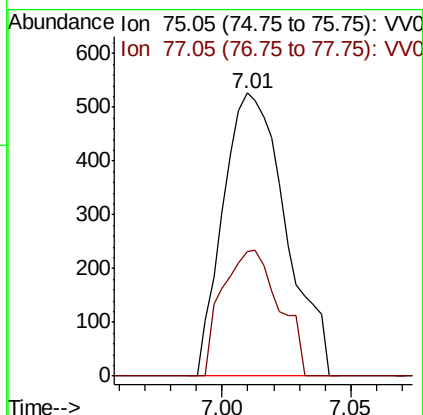
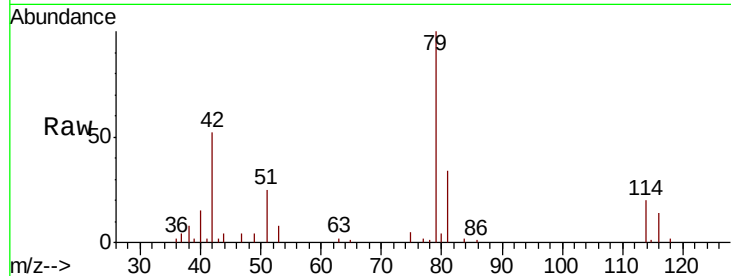




#39
 cis-1,3-Dichloropropene
 Concen: 0.107 ug/L
 RT: 7.01 min Scan# 1841
 Delta R.T. -0.04 min
 Lab File: VV016268.D
 Acq: 28 May 2020 11:45

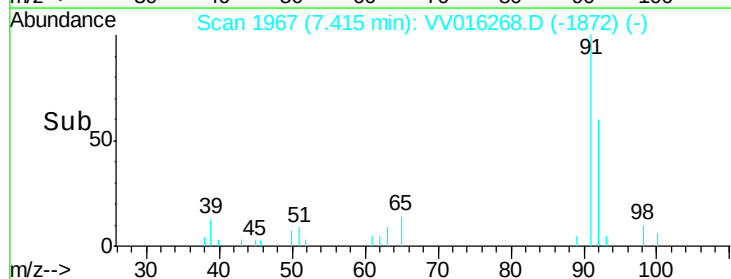
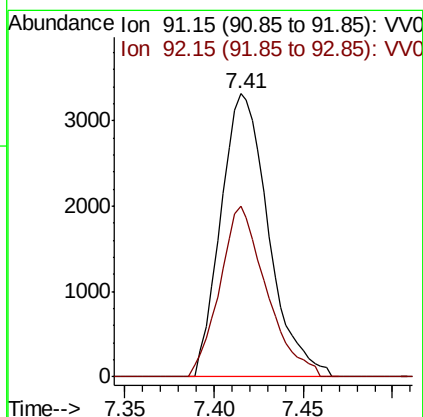
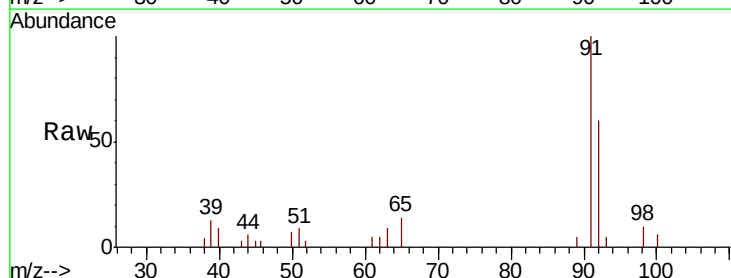
Instrument :
 MSVOA_V
 ClientSampleId :

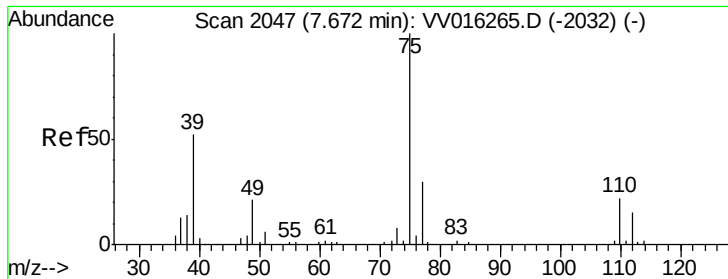
Tot Ion: 75 Resp: 894
 Ion Ratio Lower Upper
 75 100
 77 43.8 21.7 40.3#



#42
 Toluene
 Concen: 0.234 ug/L
 RT: 7.41 min Scan# 1967
 Delta R.T. 0.01 min
 Lab File: VV016268.D
 Acq: 28 May 2020 11:45

Tgt Ion: 91 Resp: 6153
 Ion Ratio Lower Upper
 91 100
 92 60.4 40.9 76.0





#46

trans-1,3-Dichloropropene

Concen: 0.075 ug/L

RT: 7.65 min Scan# 2039

Delta R.T. -0.03 min

Lab File: VV016268.D

Acq: 28 May 2020 11:45

Instrument :

MSVOA_V

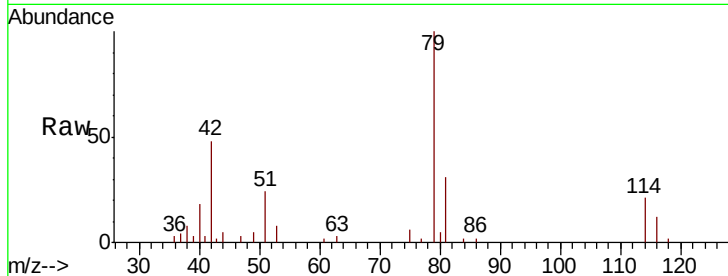
ClientSampleId :

Tot Ion: 75 Resp: 524

Ion Ratio Lower Upper

75 100

77 36.2 21.7 40.3



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0

7.65

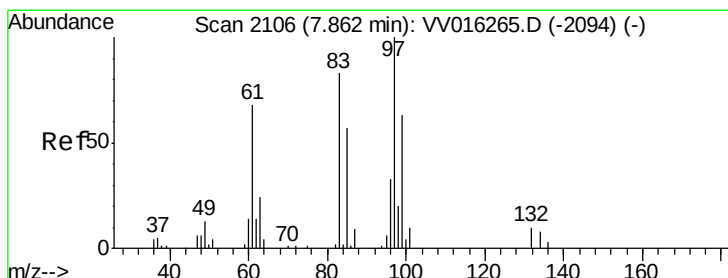
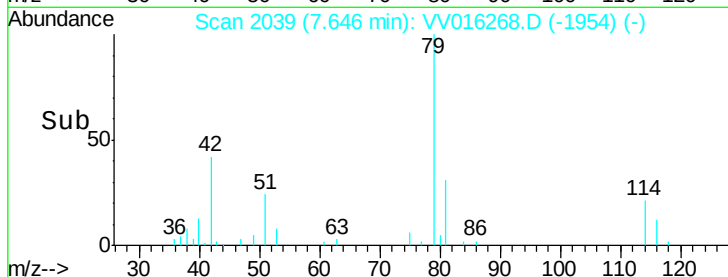
300

200

100

0

Time-->



#47

1,1,2-Trichloroethane

Concen: 0.880 ug/L

RT: 7.99 min Scan# 2147

Delta R.T. 0.13 min

Lab File: VV016268.D

Acq: 28 May 2020 11:45

Tgt Ion: 97 Resp: 3429

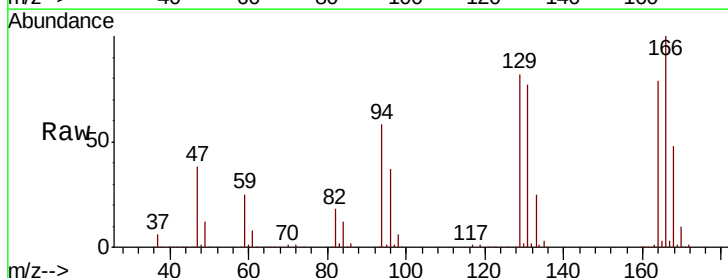
Ion Ratio Lower Upper

97 100

99 17.1 40.8 75.8#

83 211.2 60.0 111.4#

85 31.4 39.3 73.1#



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

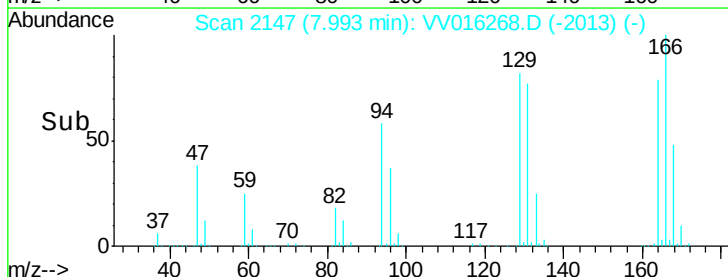
6000

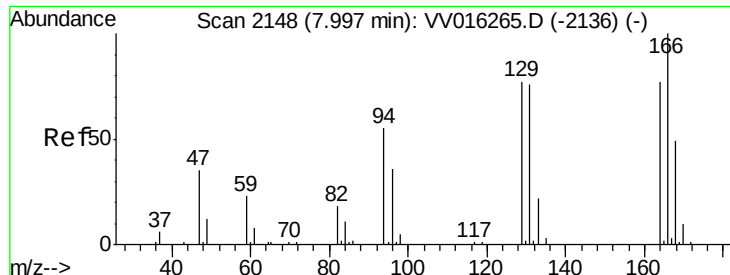
4000

2000

0

Time-->





#49

Tetrachloroethene

Concen: 70.956 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. -0.00 min

Lab File: VV016268.D

Acq: 28 May 2020 11:45

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp: 320490

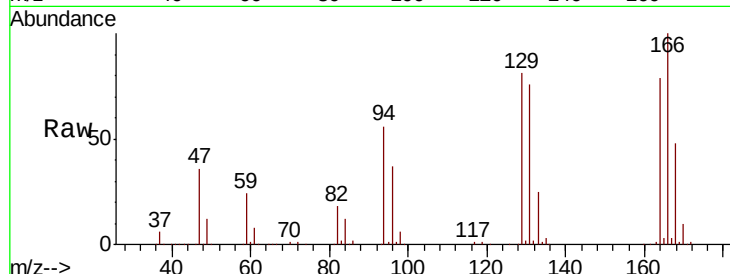
Ion Ratio Lower Upper

164 100

129 102.6 70.7 131.3

131 97.2 66.6 123.8

166 127.1 86.9 161.5

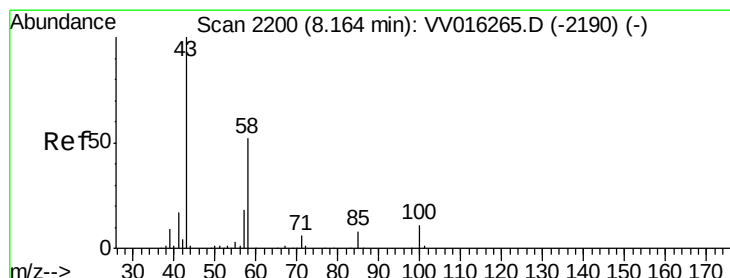
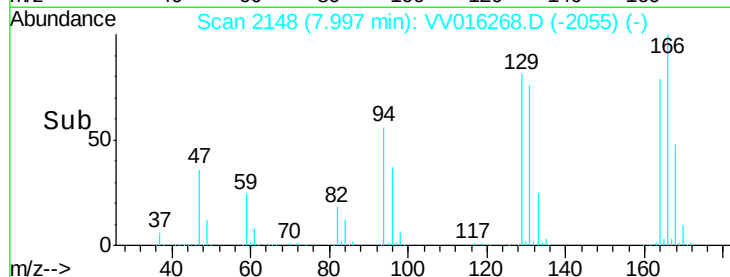
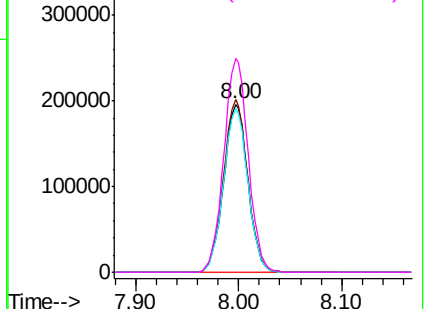


Abundance Ion 163.90 (163.60 to 164.60): V

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



#50

2-Hexanone

Concen: 2.812 ug/L

RT: 8.12 min Scan# 2185

Delta R.T. -0.05 min

Lab File: VV016268.D

Acq: 28 May 2020 11:45

Tgt Ion: 43 Resp: 7226

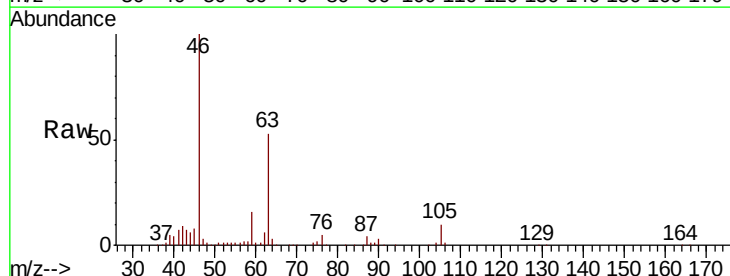
Ion Ratio Lower Upper

43 100

58 29.6 41.4 62.0#

57 25.8 15.0 22.4#

100 0.0 9.0 13.4#

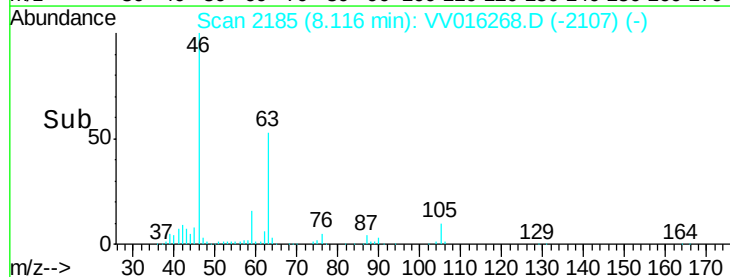
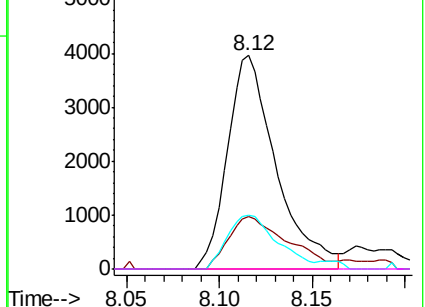


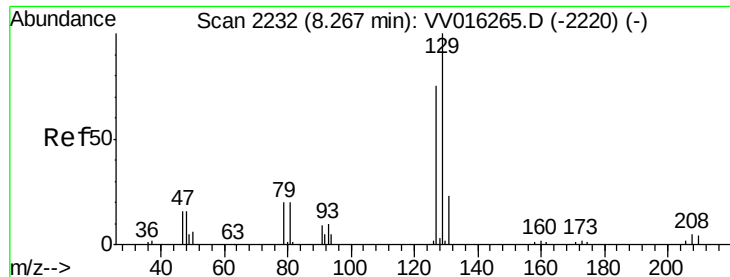
Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0

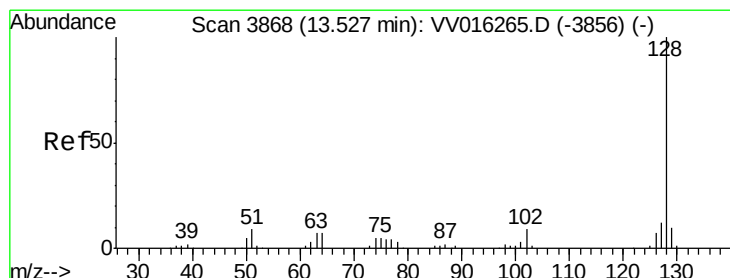
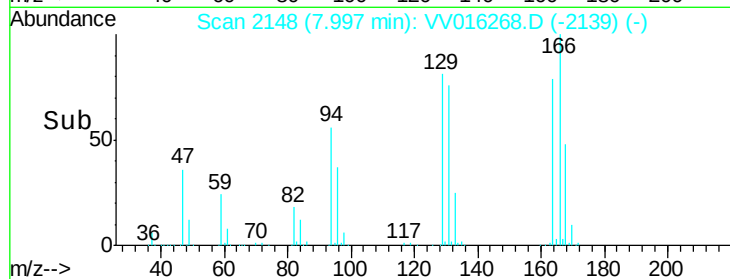
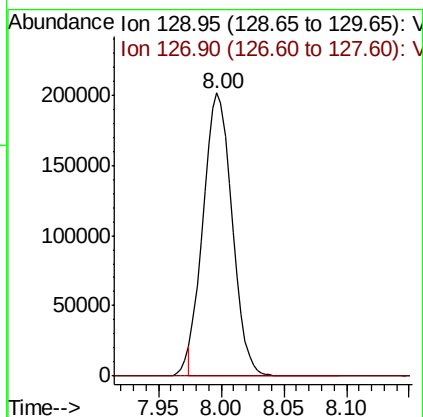
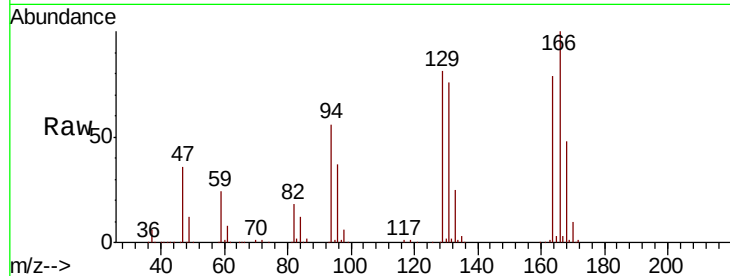




#51
 Dibromochloromethane
 Concen: 77.583 ug/L
 RT: 8.00 min Scan# 2148
 Delta R.T. -0.27 min
 Lab File: VV016268.D
 Acq: 28 May 2020 11:45

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion:129 Resp: 320130
 Ion Ratio Lower Upper
 129 100
 127 0.0 55.2 102.4#



#70
 Naphthalene
 Concen: 0.083 ug/L
 RT: 13.53 min Scan# 3870
 Delta R.T. 0.01 min
 Lab File: VV016268.D
 Acq: 28 May 2020 11:45

Tgt Ion:128 Resp: 1330
 Ion Ratio Lower Upper
 128 100
 129 4.9 8.6 13.0#
 127 11.7 10.6 15.8

