

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052920\
 Data File : VV016329.D
 Acq On : 29 May 2020 23:00
 Operator : SY/MD
 Sample : L2826-02
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 30 03:07:44 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR052620WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat May 30 03:05:25 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	92955	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	86263	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	39145	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	27362	4.58	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.60%
7) Chloroethane-d5	1.58	69	22012	4.20	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	84.00%
11) 1,1-Dichloroethene-d2	2.12	63	40661	3.63	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	72.60%
20) 2-Butanone-d5	3.94	46	76361	51.56	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	103.12%
24) Chloroform-d	4.38	84	51609	4.34	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.80%
26) 1,2-Dichloroethane-d4	5.06	65	29489	4.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.80%
32) Benzene-d6	5.07	84	105847	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.00%
36) 1,2-Dichloropropane-d6	6.09	67	32704	4.95	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	99.00%
41) Toluene-d8	7.34	98	95206	4.67	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	93.40%
45) trans-1,3-Dichloropropene-	7.64	79	10616	4.31	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	86.20%
48) 2-Hexanone-d5	8.12	63	57900	51.23	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	102.46%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	21644	4.43	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	88.60%
65) 1,2-Dichlorobenzene-d4	11.65	152	32618	4.99	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.80%

Target Compounds

					Ovalue
3) Chloromethane	1.25	50	1234	0.138	ug/L 100
5) Vinyl chloride	1.32	62	3056	0.375	ug/L 93
8) Chloroethane	1.60	64	632	0.139	ug/L # 81
12) 1,1-Dichloroethene	2.13	96	1843	0.336	ug/L # 1
18) trans-1,2-Dichloroethene	2.78	96	2680	0.447	ug/L 93
19) 1,1-Dichloroethane	3.21	63	1026	0.090	ug/L # 79
22) cis-1,2-Dichloroethene	3.94	96	144233	20.325	ug/L 97
25) Chloroform	4.40	83	3254	0.270	ug/L 98
27) 1,2-Dichloroethane	5.07	62	633	0.080	ug/L # 79
33) Benzene	5.13	78	2218	0.089	ug/L 100
34) Trichloroethene	5.94	95	866858	134.046	ug/L 99
35) Methylcyclohexane	6.09	83	7472	0.685	ug/L # 16
37) 1,2-Dichloropropane	6.10	63	3872	0.636	ug/L # 88
46) trans-1,3-Dichloropropene	7.64	75	417	0.058	ug/L # 53
49) Tetrachloroethene	8.00	164	26963	5.808	ug/L 98
51) Dibromochloromethane	7.99	129	26603	6.272	ug/L # 10
53) Chlorobenzene	8.90	112	12500	0.747	ug/L 99

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Quant Title : TRACE VOA SOM01.0
QLast Update : Sat May 30 03:05:25 2020
Response via : Initial Calibration

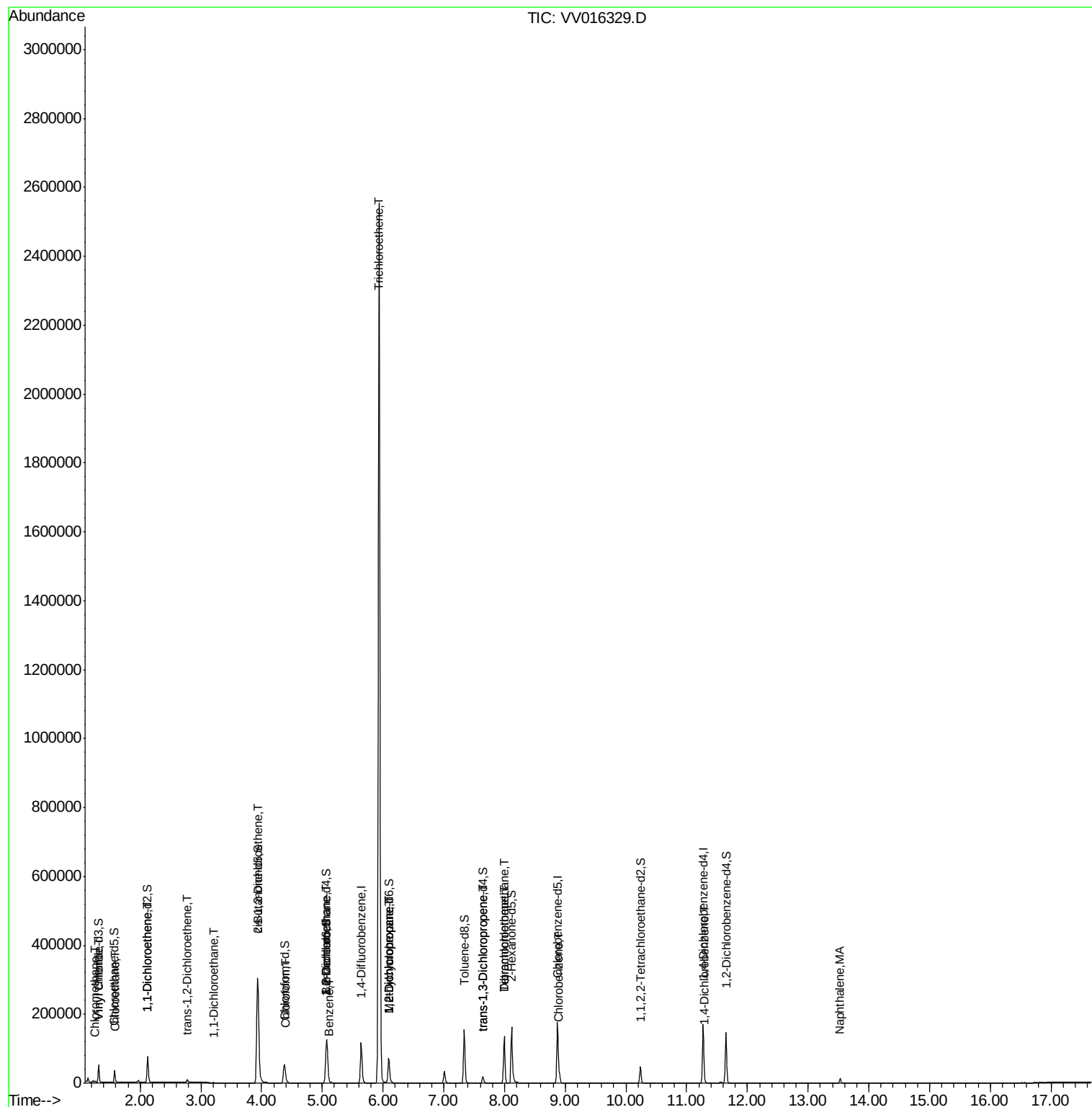
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
64) 1,4-Dichlorobenzene	11.30	146	2033	0.167	ug/L	87
70) Naphthalene	13.53	128	10945	0.675	ug/L	97

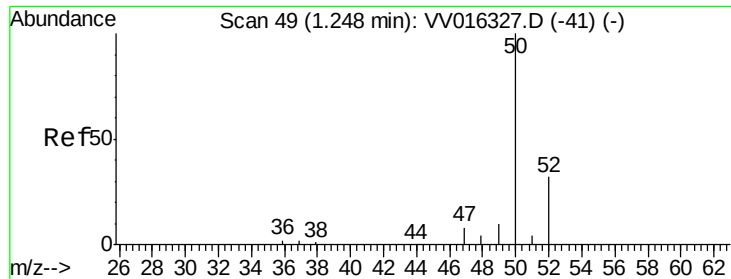
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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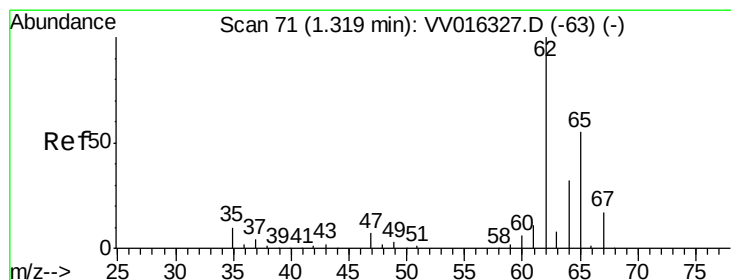
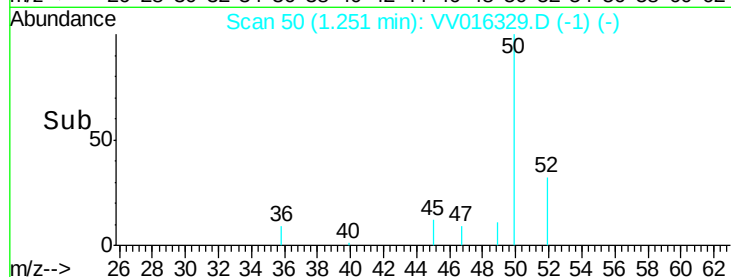
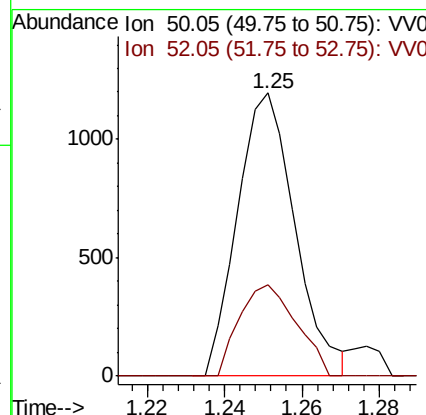
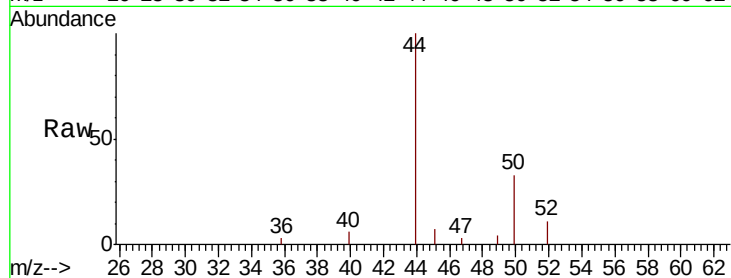




#3
 Chloromethane
 Concen: 0.138 ug/L
 RT: 1.25 min Scan# 50
 Delta R.T. 0.00 min
 Lab File: VV016329.D
 Acq: 29 May 2020 23:00

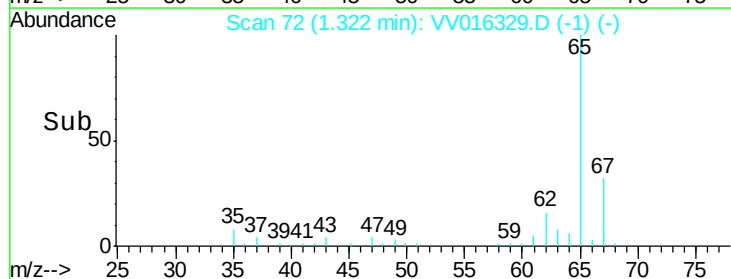
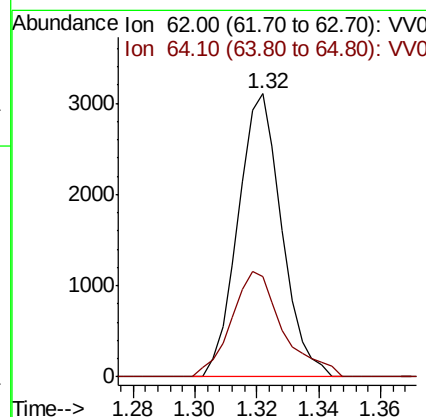
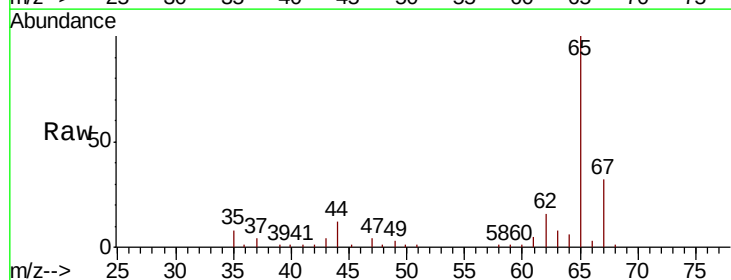
Instrument :
 MSVOA_V
 ClientSampled :

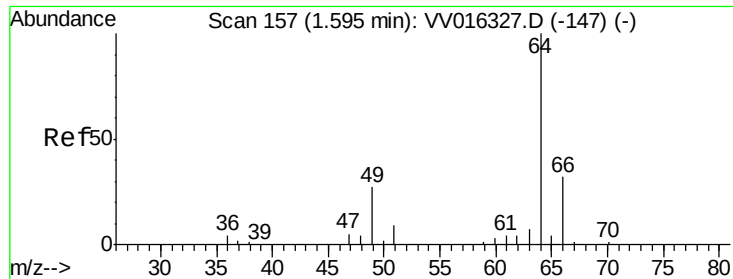
Tot Ion: 50 Resp: 1234
 Ion Ratio Lower Upper
 50 100
 52 32.4 22.5 41.9



#5
 Vinyl chloride
 Concen: 0.375 ug/L
 RT: 1.32 min Scan# 72
 Delta R.T. 0.00 min
 Lab File: VV016329.D
 Acq: 29 May 2020 23:00

Tgt Ion: 62 Resp: 3056
 Ion Ratio Lower Upper
 62 100
 64 35.4 22.1 41.1





#8

Chloroethane

Concen: 0.139 ug/L

RT: 1.60 min Scan# 158

Delta R.T. 0.00 min

Lab File: VV016329.D

Acq: 29 May 2020 23:00

Instrument :

MSVOA_V

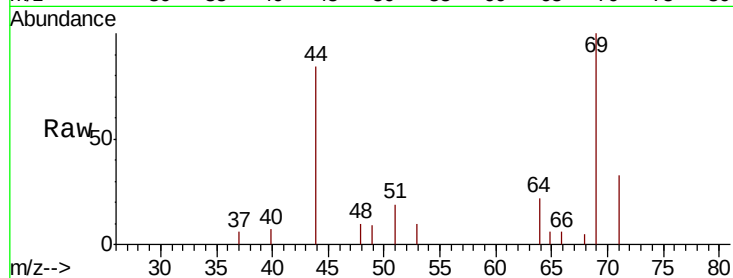
ClientSampled :

Tot Ion: 64 Resp: 632

Ion Ratio Lower Upper

64 100

66 21.8 22.9 42.5#



Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0

1.60

400

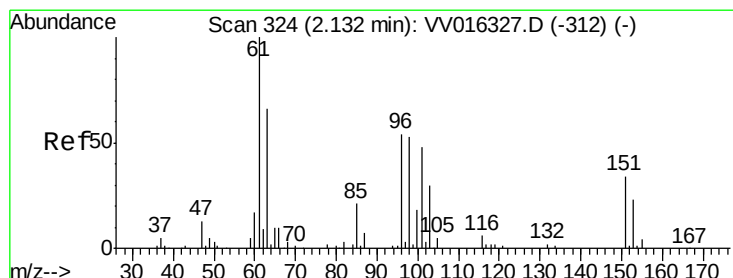
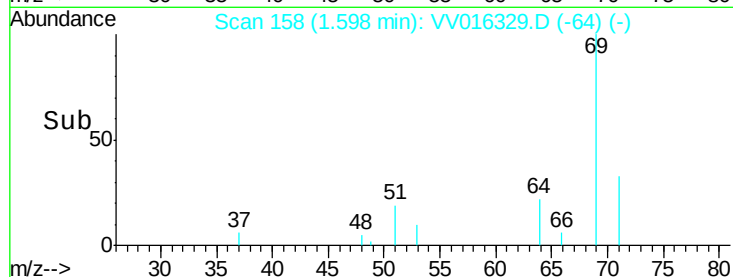
300

200

100

0

Time-->



#12

1,1-Dichloroethene

Concen: 0.336 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV016329.D

Acq: 29 May 2020 23:00

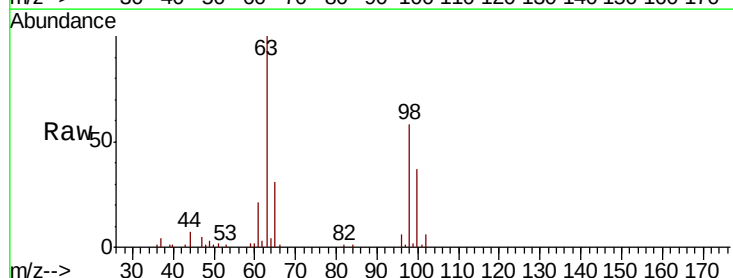
Tgt Ion: 96 Resp: 1843

Ion Ratio Lower Upper

96 100

61 329.5 124.9 231.9#

63 1564.7 80.4 149.2#



Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

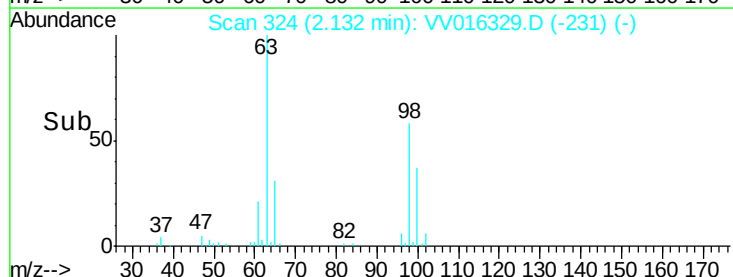
30000

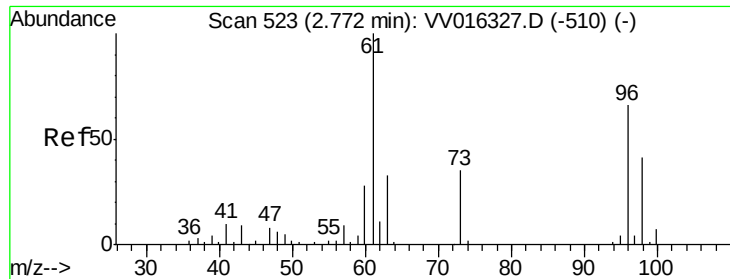
20000

10000

0

Time-->





#18

trans-1,2-Dichloroethene

Concen: 0.447 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.01 min

Lab File: VV016329.D

Acq: 29 May 2020 23:00

Instrument :
MSVOA_V
ClientSampleId :

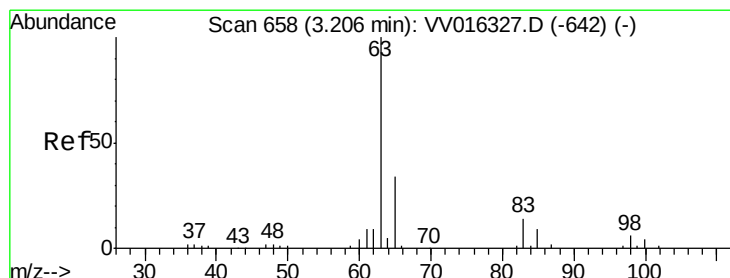
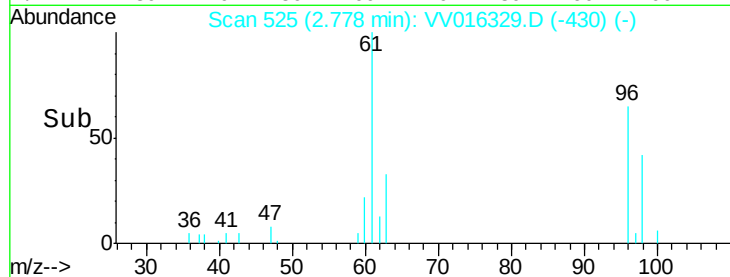
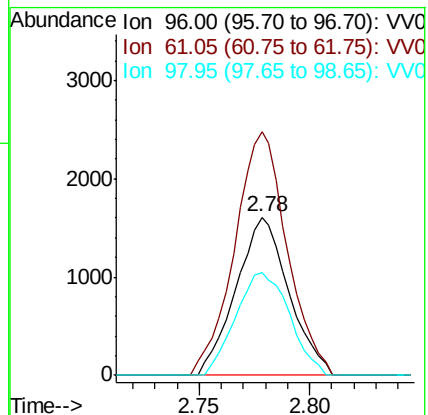
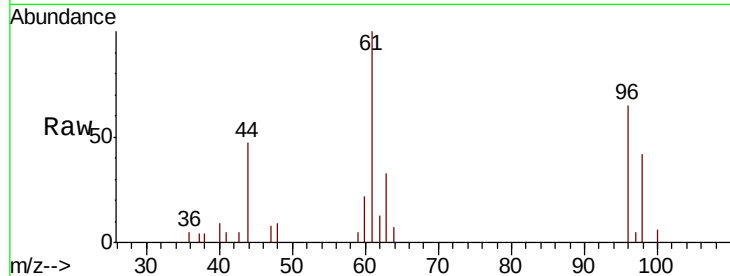
Tot Ion: 96 Resp: 2680

Ion Ratio Lower Upper

96 100

61 153.7 99.8 185.4

98 64.9 44.0 81.6



#19

1,1-Dichloroethane

Concen: 0.090 ug/L

RT: 3.21 min Scan# 659

Delta R.T. 0.00 min

Lab File: VV016329.D

Acq: 29 May 2020 23:00

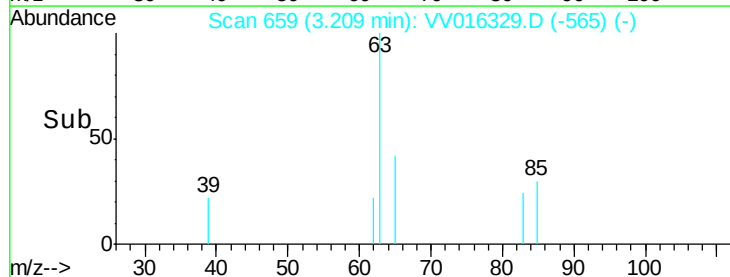
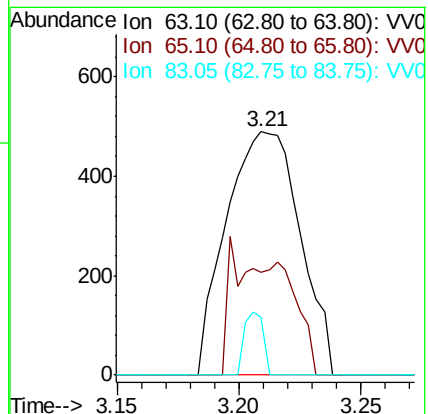
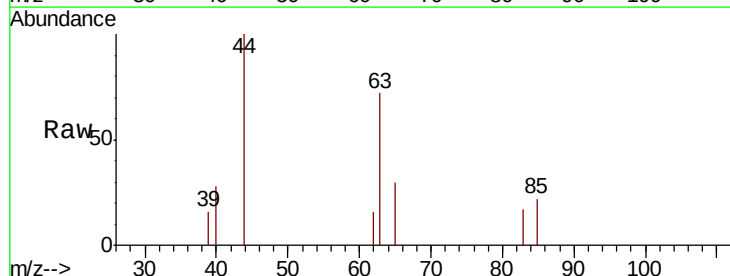
Tgt Ion: 63 Resp: 1026

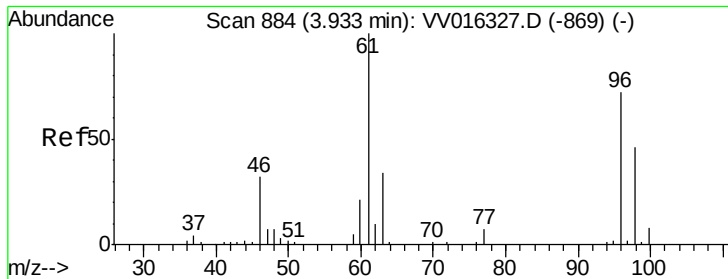
Ion Ratio Lower Upper

63 100

65 42.2 22.3 41.5#

83 23.9 9.4 17.4#



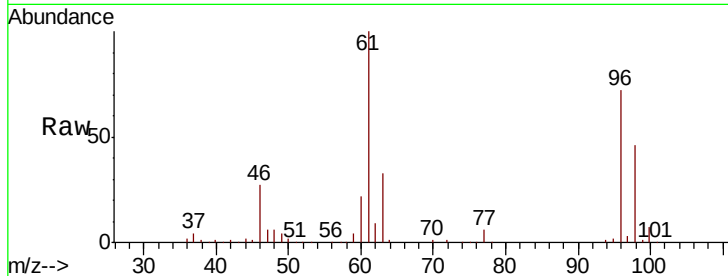


#22

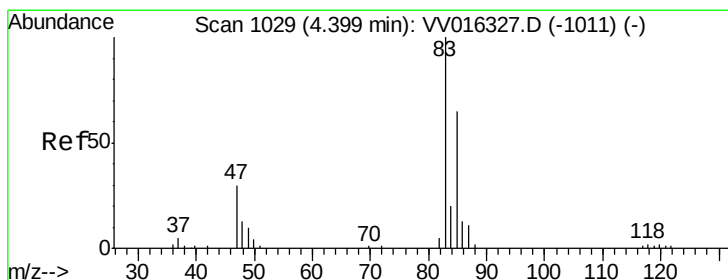
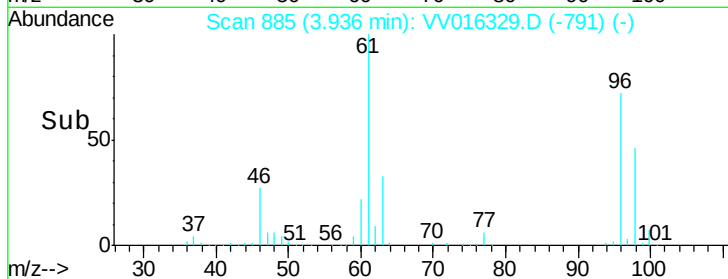
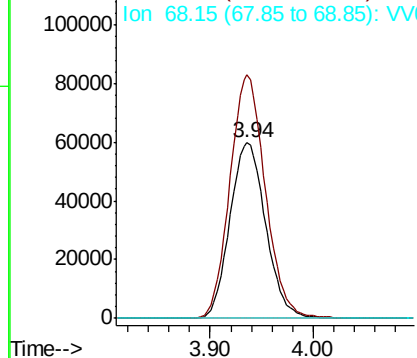
cis-1,2-Dichloroethene
Concen: 20.325 ug/L
RT: 3.94 min Scan# 885
Delta R.T. 0.00 min
Lab File: VV016329.D
Acq: 29 May 2020 23:00

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 96 Resp: 144233
Ion Ratio Lower Upper
96 100
61 138.6 99.7 185.1
68 0.0 0.0 0.0



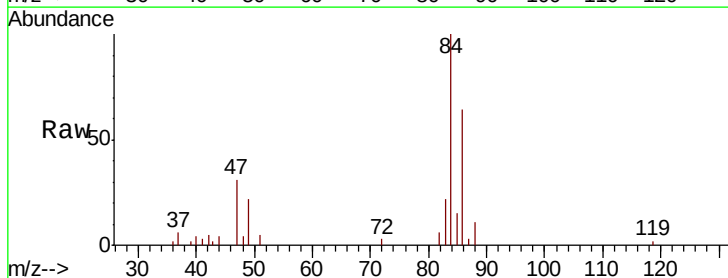
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



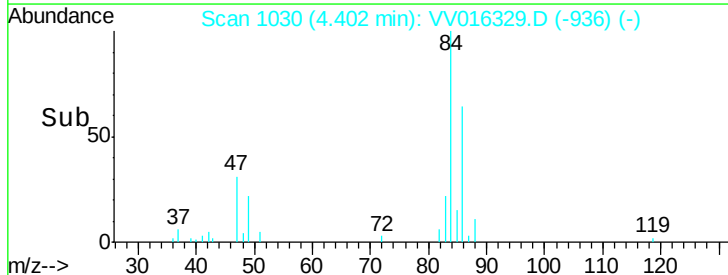
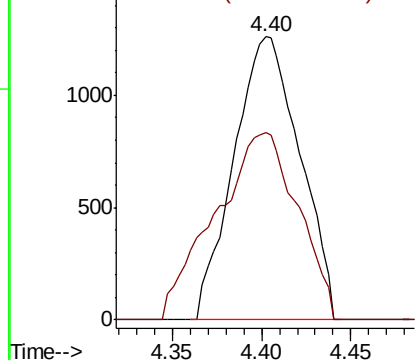
#25

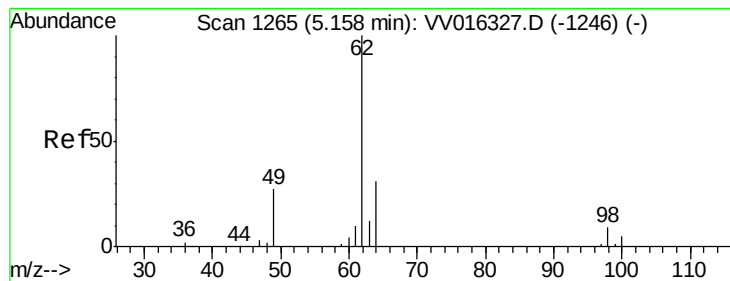
Chloroform
Concen: 0.270 ug/L
RT: 4.40 min Scan# 1030
Delta R.T. 0.00 min
Lab File: VV016329.D
Acq: 29 May 2020 23:00

Tgt Ion: 83 Resp: 3254
Ion Ratio Lower Upper
83 100
85 66.0 45.1 83.7



Abundance Ion 83.05 (82.75 to 83.75): VV0
Ion 85.00 (84.70 to 85.70): VV0





#27

1,2-Dichloroethane

Concen: 0.080 ug/L

RT: 5.07 min Scan# 1239

Delta R.T. -0.08 min

Lab File: VV016329.D

Acq: 29 May 2020 23:00

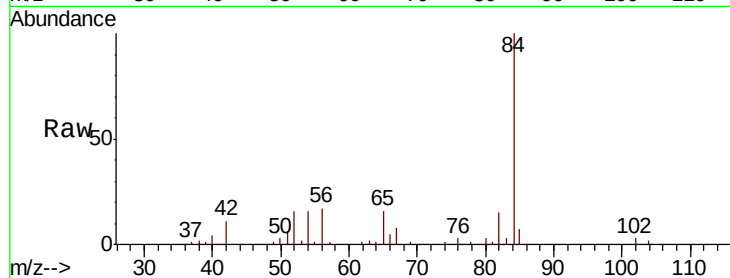
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 633

Ion Ratio Lower Upper

62 100

98 0.0 5.7 8.5#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.05 (97.75 to 98.75): VV0

400

300

200

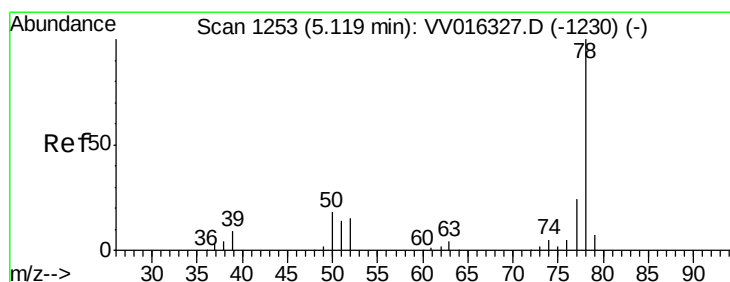
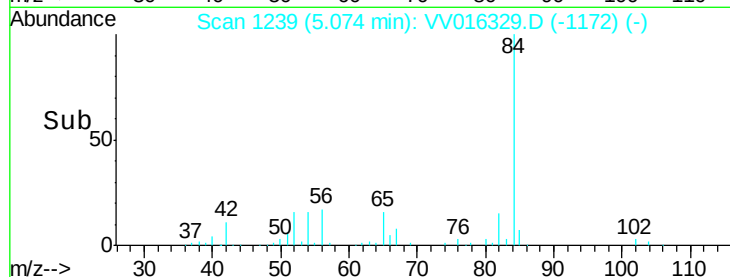
100

0

5.05

5.10

Time-->



#33

Benzene

Concen: 0.089 ug/L

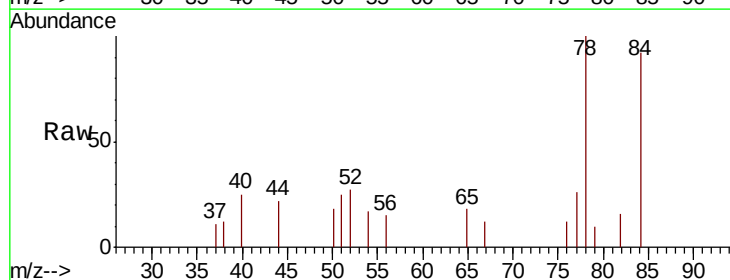
RT: 5.13 min Scan# 1255

Delta R.T. 0.01 min

Lab File: VV016329.D

Acq: 29 May 2020 23:00

Tgt Ion: 78 Resp: 2218



Abundance Ion 78.10 (77.80 to 78.80): VV0

1200

1000

800

600

400

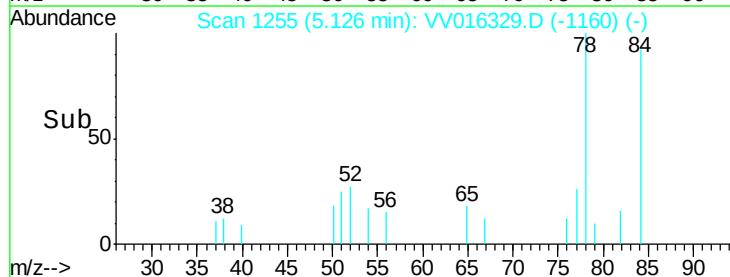
200

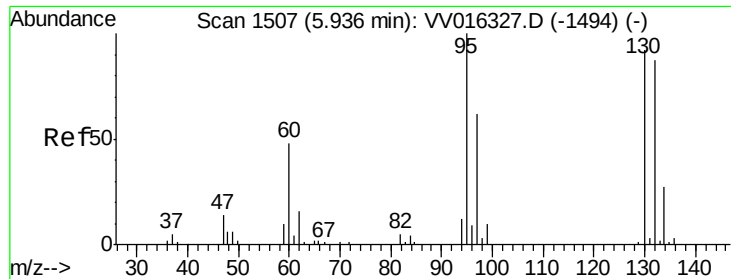
0

5.10

5.15

Time-->





#34

Trichloroethene

Concen: 134.046 ug/L

RT: 5.94 min Scan# 1507

Delta R.T. -0.00 min

Lab File: VV016329.D

Acq: 29 May 2020 23:00

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion: 95 Resp: 866858

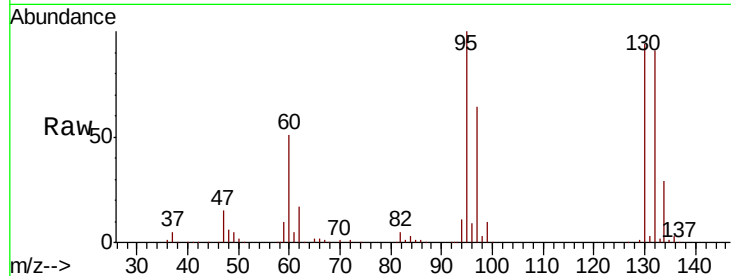
Ion Ratio Lower Upper

95 100

97 63.9 43.6 81.0

132 90.9 63.9 118.7

130 94.4 65.2 121.0

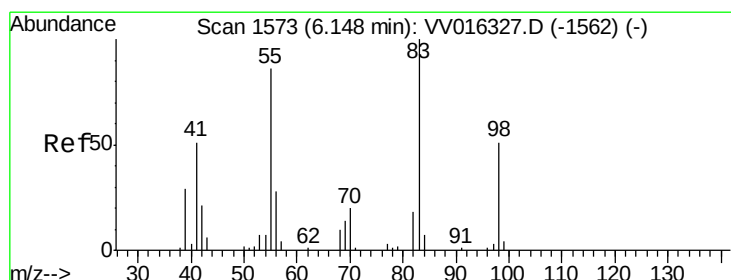
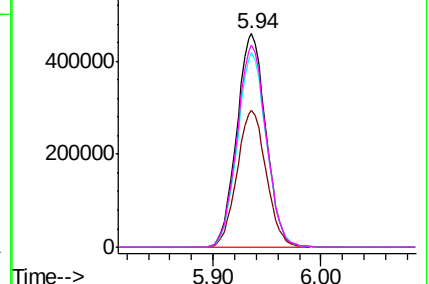
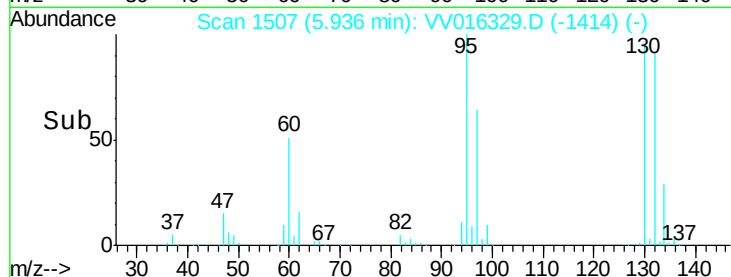


Abundance Ion 95.00 (94.70 to 95.70): VV0

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

Methylcyclohexane

Concen: 0.685 ug/L

RT: 6.09 min Scan# 1556

Delta R.T. -0.05 min

Lab File: VV016329.D

Acq: 29 May 2020 23:00

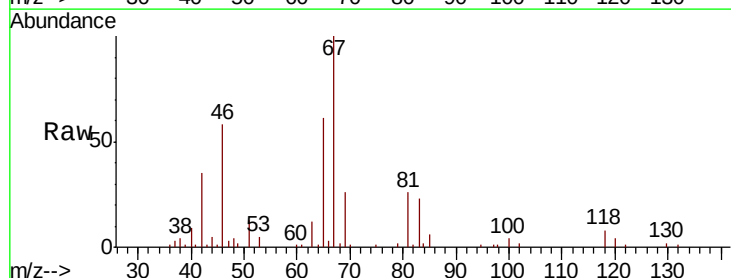
Tgt Ion: 83 Resp: 7472

Ion Ratio Lower Upper

83 100

55 0.0 65.4 98.0#

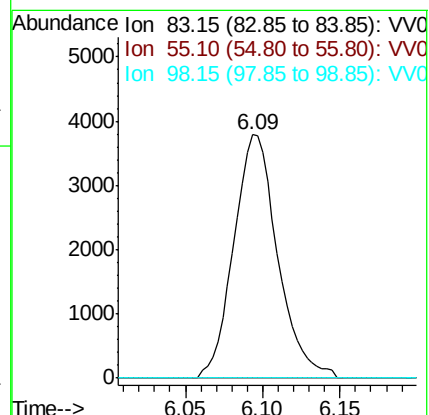
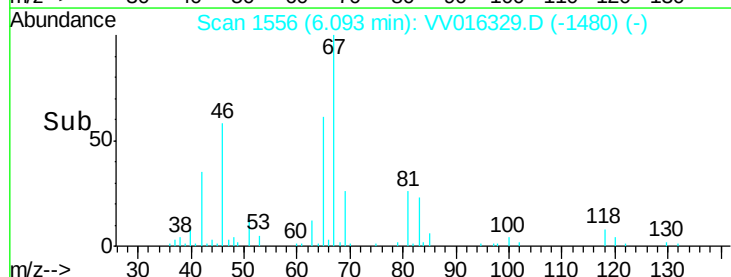
98 0.0 39.3 58.9#

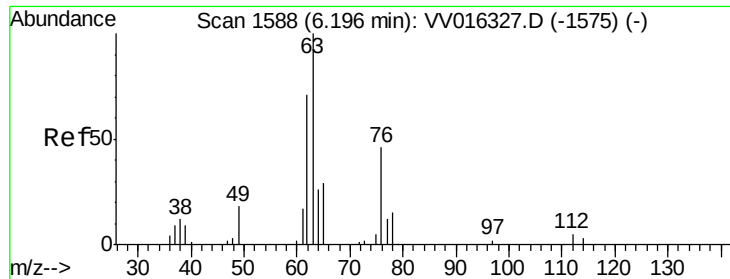


Abundance Ion 83.15 (82.85 to 83.85): VV0

Ion 55.10 (54.80 to 55.80): VV0

Ion 98.15 (97.85 to 98.85): VV0

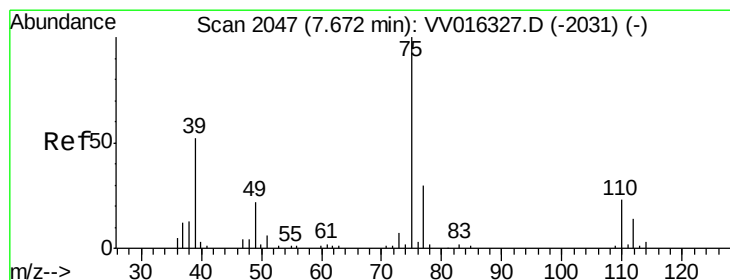
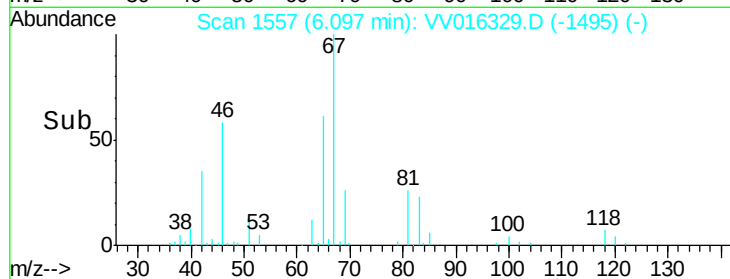
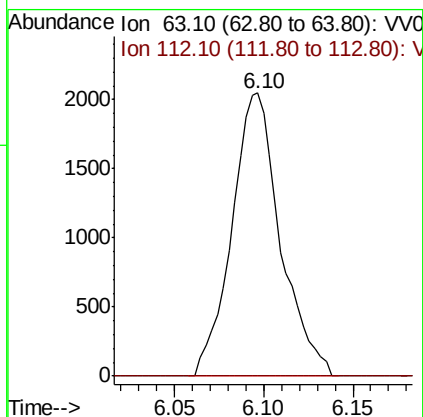
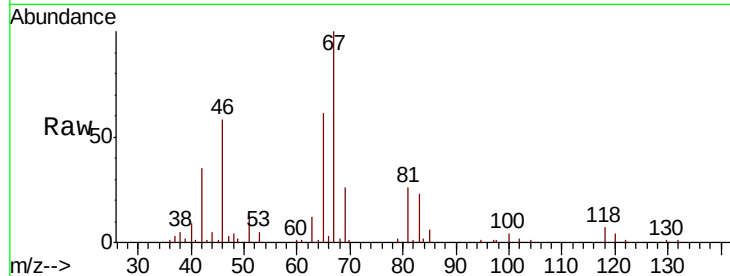




#37
 1,2-Dichloropropane
 Concen: 0.636 ug/L
 RT: 6.10 min Scan# 1557
 Delta R.T. -0.10 min
 Lab File: VV016329.D
 Acq: 29 May 2020 23:00

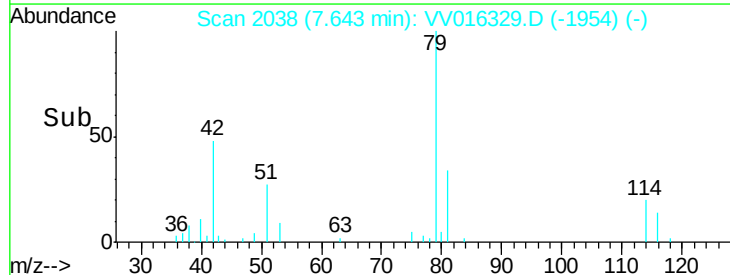
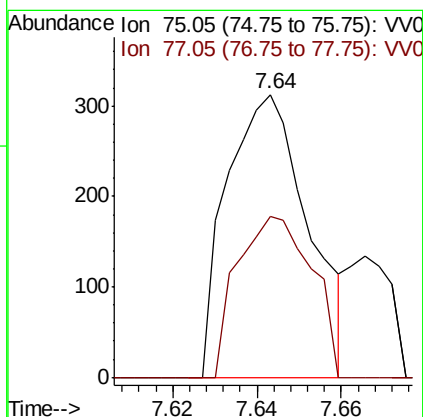
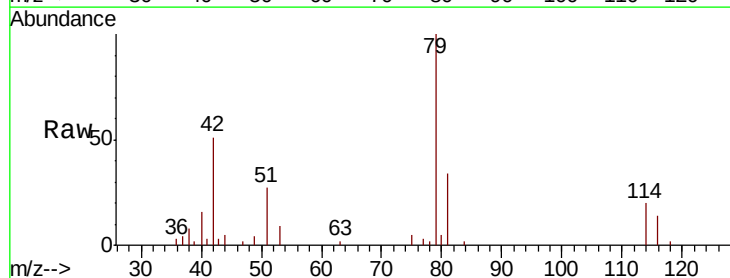
Instrument :
 MSVOA_V
 ClientSampleId :

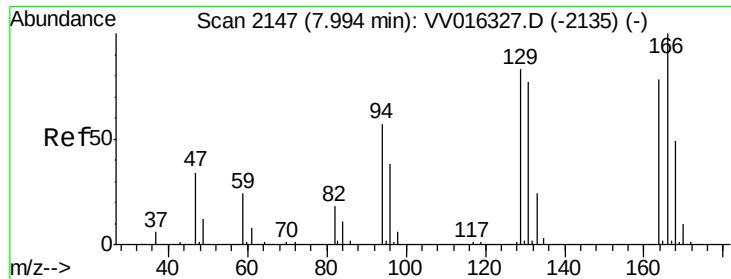
Tot Ion: 63 Resp: 3872
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.1 4.7#



#46
 trans-1,3-Dichloropropene
 Concen: 0.058 ug/L
 RT: 7.64 min Scan# 2038
 Delta R.T. -0.03 min
 Lab File: VV016329.D
 Acq: 29 May 2020 23:00

Tgt Ion: 75 Resp: 417
 Ion Ratio Lower Upper
 75 100
 77 56.9 21.7 40.3#





#49

Tetrachloroethene

Concen: 5.808 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV016329.D

Acq: 29 May 2020 23:00

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:164 Resp: 26963

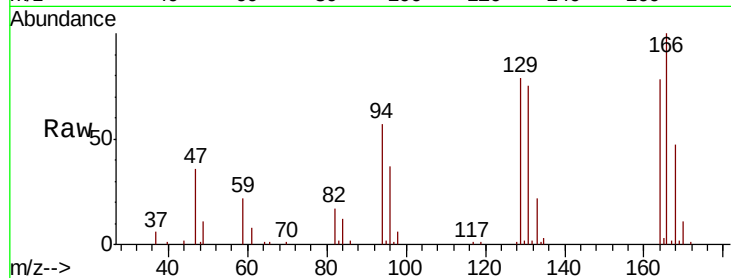
Ion Ratio Lower Upper

164 100

129 101.8 70.7 131.3

131 96.3 66.6 123.8

166 128.5 86.9 161.5

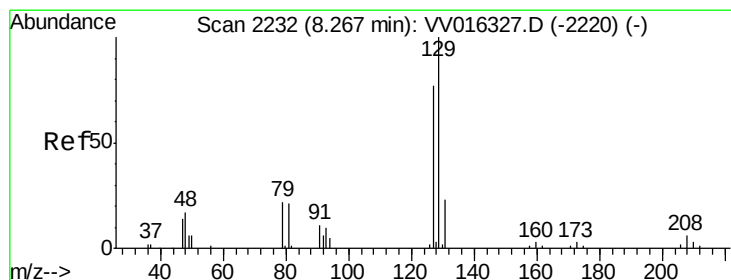
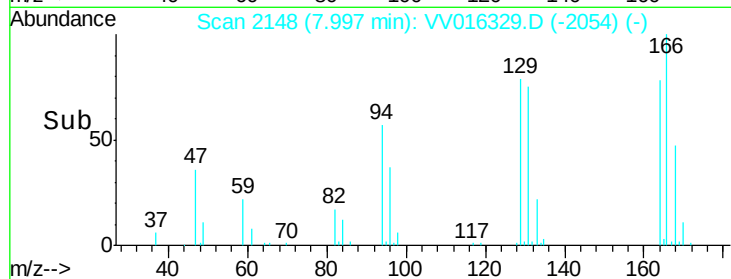
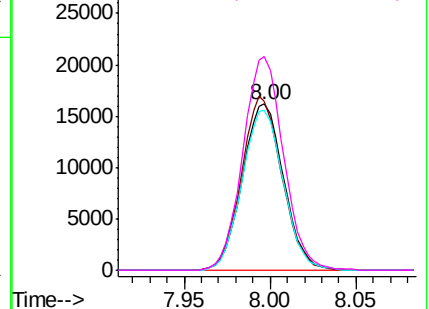


Abundance Ion 163.90 (163.60 to 164.60): V

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



#51

Dibromochloromethane

Concen: 6.272 ug/L

RT: 7.99 min Scan# 2147

Delta R.T. -0.27 min

Lab File: VV016329.D

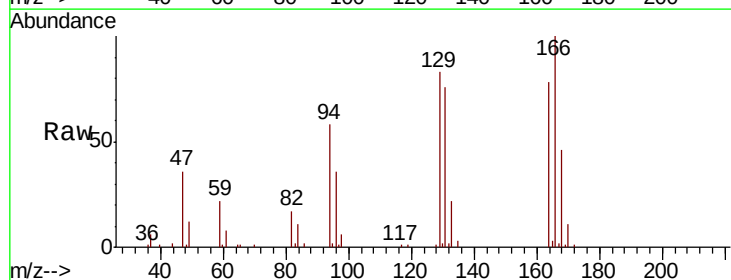
Acq: 29 May 2020 23:00

Tgt Ion:129 Resp: 26603

Ion Ratio Lower Upper

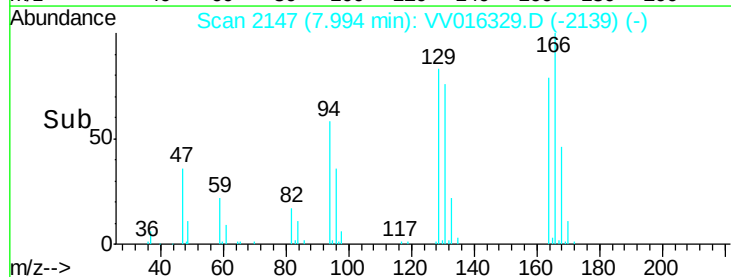
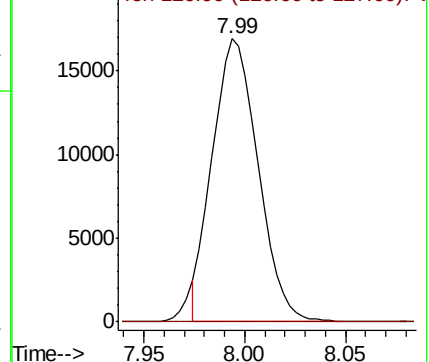
129 100

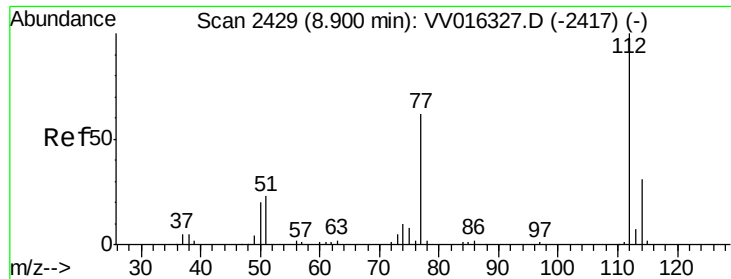
127 0.0 55.2 102.4#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V

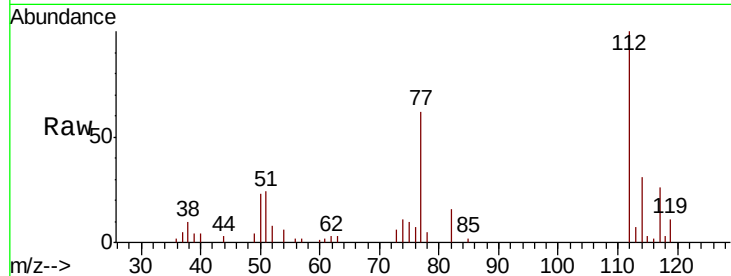




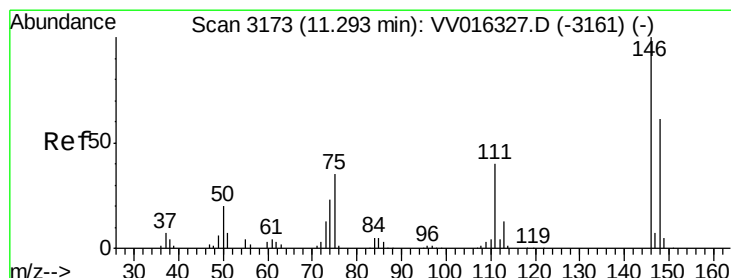
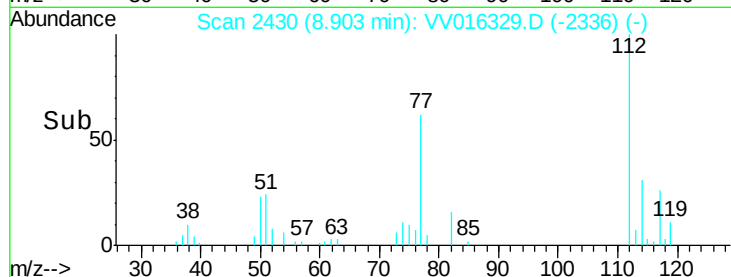
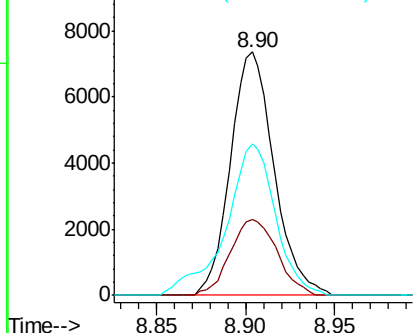
#53
Chlorobenzene
Concen: 0.747 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV016329.D
Acq: 29 May 2020 23:00

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.3	22.3	41.3
77	62.1	50.7	76.1

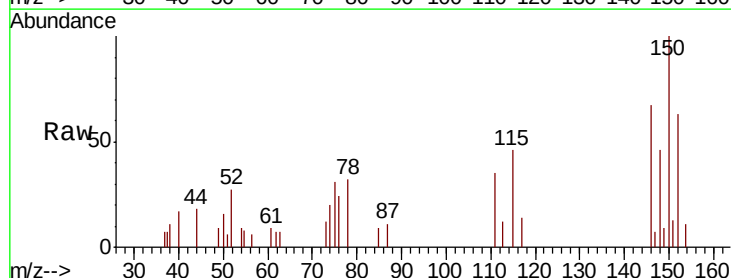


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

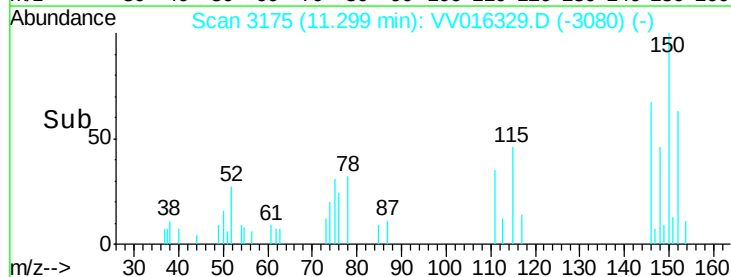
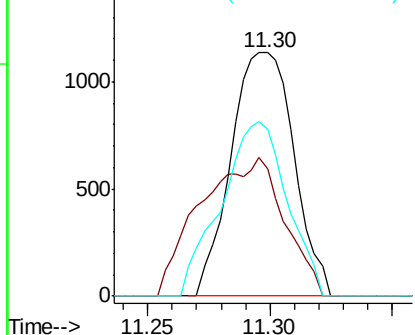


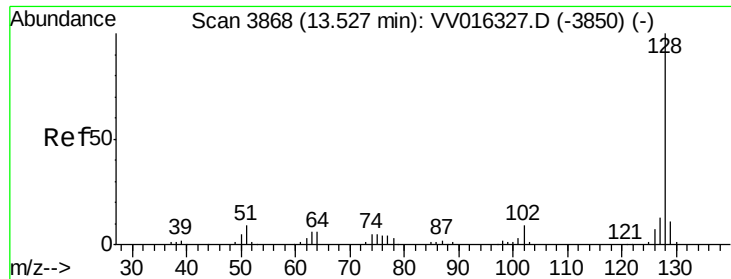
#64
1,4-Dichlorobenzene
Concen: 0.167 ug/L
RT: 11.30 min Scan# 3175
Delta R.T. 0.01 min
Lab File: VV016329.D
Acq: 29 May 2020 23:00

Tgt Ion	Ratio	Lower	Upper
146	100		
111	52.5	28.3	52.7
148	68.6	43.3	80.3



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





#70

Naphthalene

Concen: 0.675 ug/L

RT: 13.53 min Scan# 3869

Delta R.T. 0.00 min

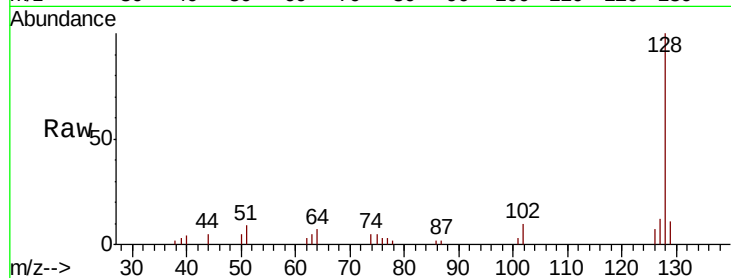
Lab File: VV016329.D

Acq: 29 May 2020 23:00

Instrument :

MSVOA_V

ClientSampleId :



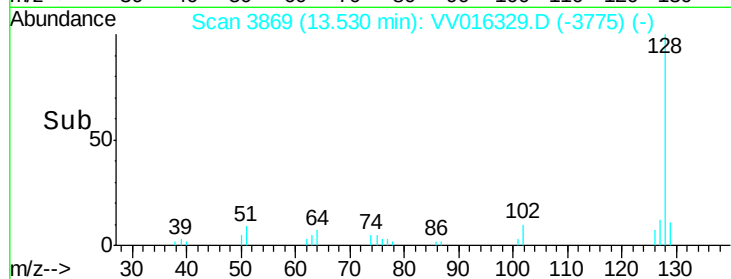
Tot Ion:128 Resp: 10945

Ion Ratio Lower Upper

128 100

129 10.0 8.6 13.0

127 11.9 10.6 15.8



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

