

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052120\
 Data File : VV016154.D
 Acq On : 21 May 2020 15:28
 Operator : SY/MD
 Sample : L2725-05DL 10X
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 22 01:55:53 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR050720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri May 22 01:50:48 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	139425	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	130767	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	63832	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	29666	3.92	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	78.40%
7) Chloroethane-d5	1.58	69	33457	4.67	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.40%
11) 1,1-Dichloroethene-d2	2.13	63	54415	3.35	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.00%
20) 2-Butanone-d5	3.94	46	91687	42.49	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	84.98%
24) Chloroform-d	4.38	84	81824	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	99.00%
26) 1,2-Dichloroethane-d4	5.06	65	42539	4.49	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.80%
32) Benzene-d6	5.08	84	156790	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	100.80%
36) 1,2-Dichloropropane-d6	6.10	67	50021	5.27	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.40%
41) Toluene-d8	7.34	98	138256	4.70	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.00%
45) trans-1,3-Dichloropropene-	7.65	79	13021	3.49	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	69.80%
48) 2-Hexanone-d5	8.12	63	68206	41.65	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	83.30%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	30745	4.60	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	92.00%
65) 1,2-Dichlorobenzene-d4	11.65	152	51032	4.93	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.60%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	24156	2.335	ug/L	83
8) Chloroethane	1.54	64	3095	0.420	ug/L #	51
12) 1,1-Dichloroethene	2.13	96	2176	0.284	ug/L #	1
16) Methylene chloride	2.53	84	5028	0.548	ug/L	97
18) trans-1,2-Dichloroethene	2.78	96	10307	1.216	ug/L	98
22) cis-1,2-Dichloroethene	3.94	96	136406	15.367	ug/L	97
25) Chloroform	4.41	83	3805	0.212	ug/L	97
27) 1,2-Dichloroethane	5.16	62	20711	1.874	ug/L	100
33) Benzene	5.14	78	5719	0.174	ug/L	100
34) Trichloroethene	5.94	95	80578	8.581	ug/L	95
35) Methylcyclohexane	6.10	83	12376	0.871	ug/L #	17
37) 1,2-Dichloropropane	6.10	63	6170	0.738	ug/L #	87
47) 1,1,2-Trichloroethane	7.86	97	9697	1.737	ug/L	87
50) 2-Hexanone	8.12	43	9717	2.637	ug/L #	75
53) Chlorobenzene	8.91	112	8207	0.366	ug/L	97
60) 1,1,2,2-Tetrachloroethane	10.27	83	3941	0.661	ug/L	97
64) 1,4-Dichlorobenzene	11.30	146	4133	0.239	ug/L	96

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Quant Title : TRACE VOA SOM01.0
QLast Update : Fri May 22 01:50:48 2020
Response via : Initial Calibration

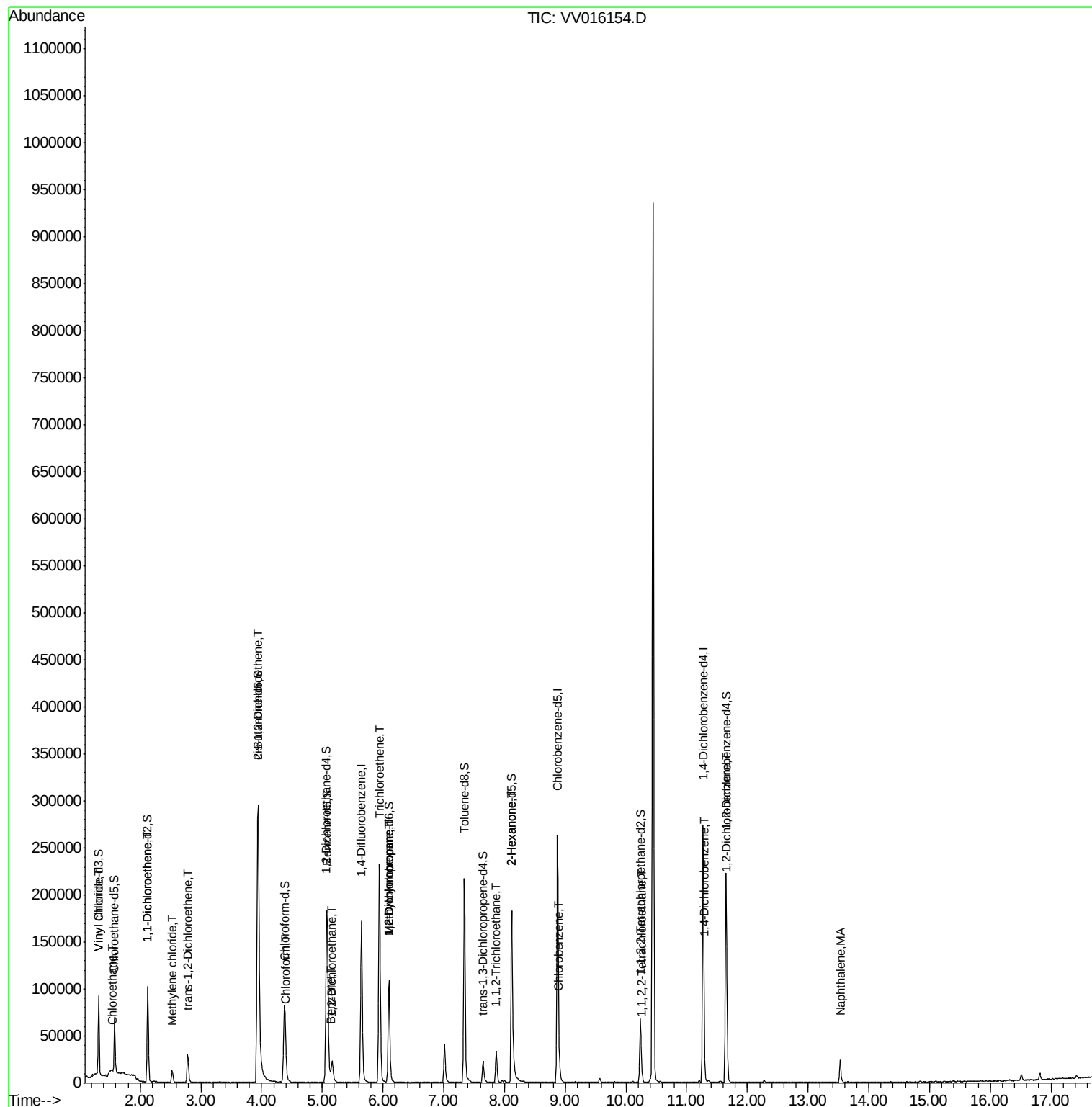
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) 1,2-Dichlorobenzene	11.67	146	14418	0.926	ug/L	96
70) Naphthalene	13.53	128	18198	1.059	ug/L	98

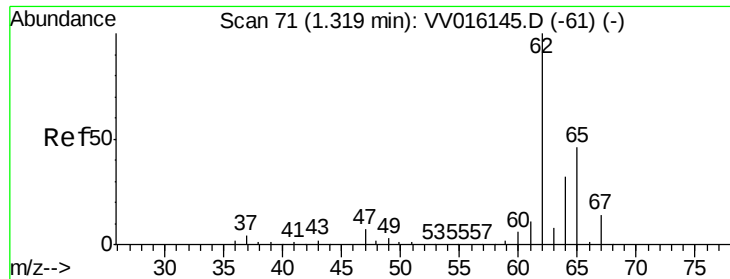
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri May 22 01:50:48 2020
Response via : Initial Calibration





#5

Vinyl chloride

Concen: 2.335 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV016154.D

Acq: 21 May 2020 15:28

Instrument :

MSVOA_V

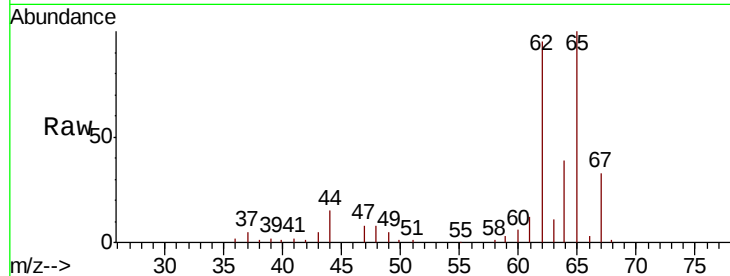
ClientSampleId :

Tot Ion: 62 Resp: 24156

Ion Ratio Lower Upper

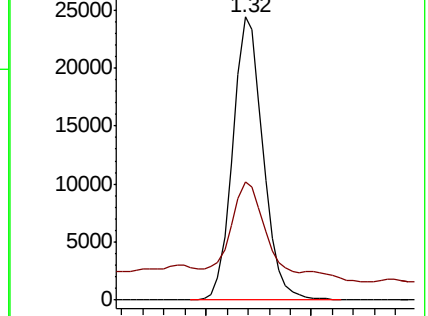
62 100

64 41.6 22.4 41.6

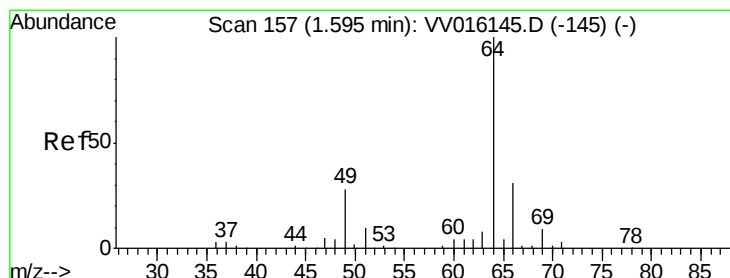
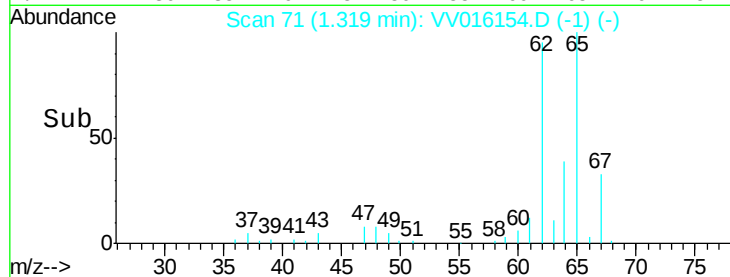


Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0



Time-->



#8

Chloroethane

Concen: 0.420 ug/L

RT: 1.54 min Scan# 139

Delta R.T. -0.06 min

Lab File: VV016154.D

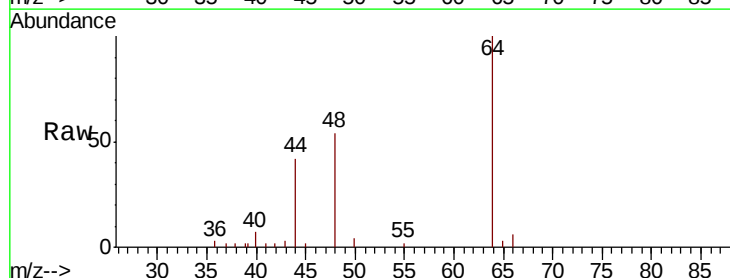
Acq: 21 May 2020 15:28

Tgt Ion: 64 Resp: 3095

Ion Ratio Lower Upper

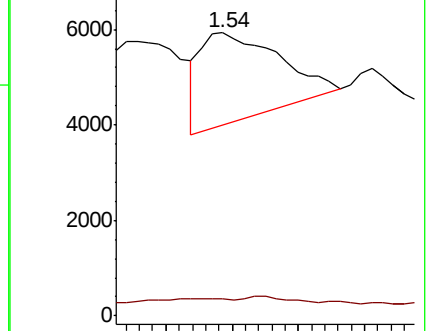
64 100

66 6.0 23.6 43.8#

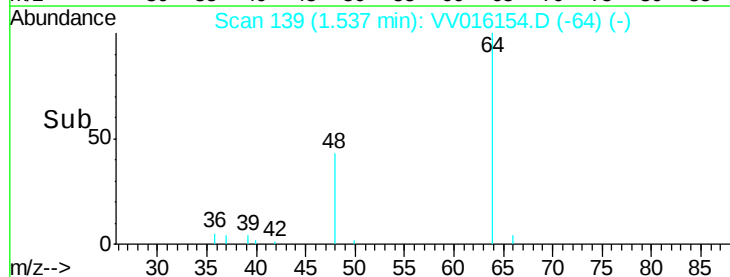


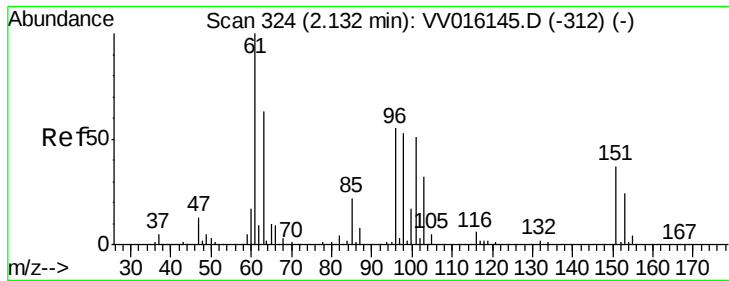
Abundance Ion 64.10 (63.80 to 64.80): VV0

Ion 66.05 (65.75 to 66.75): VV0



Time-->





#12

1,1-Dichloroethene

Concen: 0.284 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV016154.D

Acq: 21 May 2020 15:28

Instrument :
MSVOA_V
ClientSampleId :

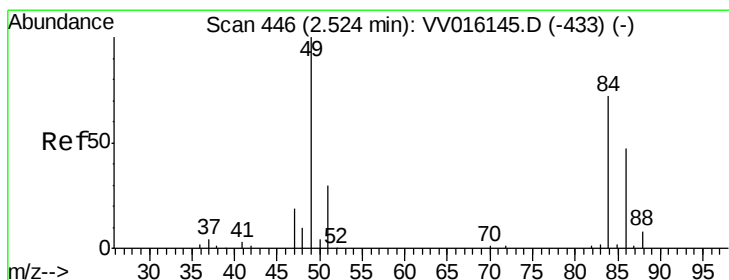
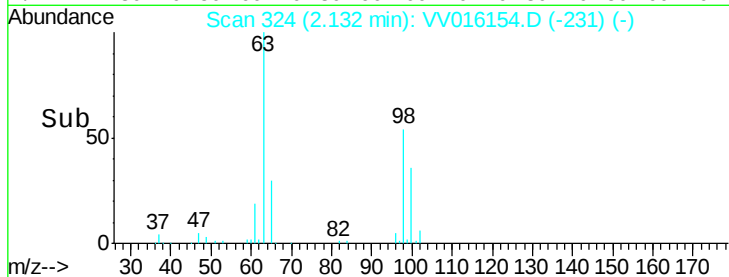
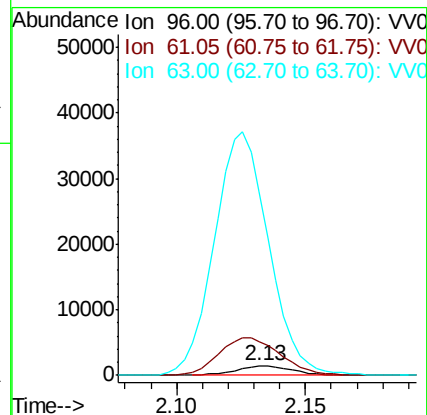
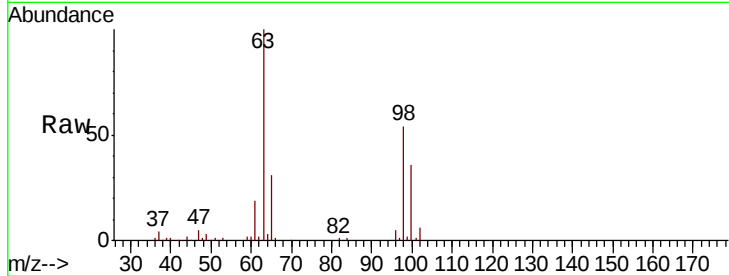
Tot Ion: 96 Resp: 2176

Ion Ratio Lower Upper

96 100

61 358.7 139.9 259.7#

63 1931.5 106.4 197.6#



#16

Methylene chloride

Concen: 0.548 ug/L

RT: 2.53 min Scan# 447

Delta R.T. 0.00 min

Lab File: VV016154.D

Acq: 21 May 2020 15:28

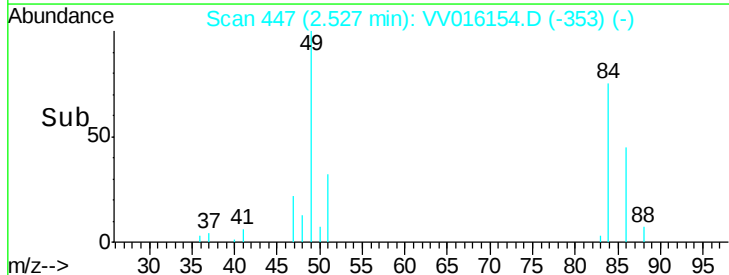
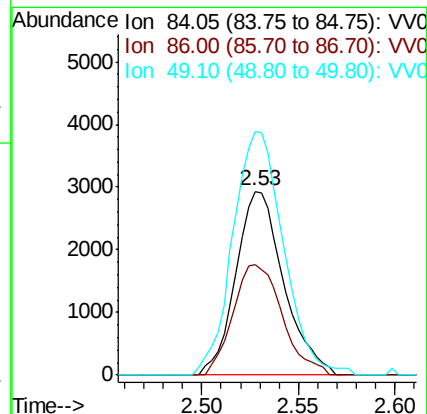
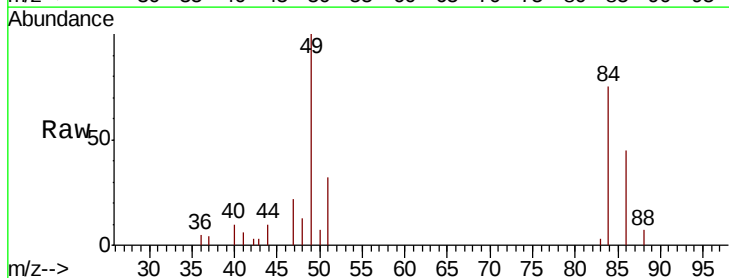
Tgt Ion: 84 Resp: 5028

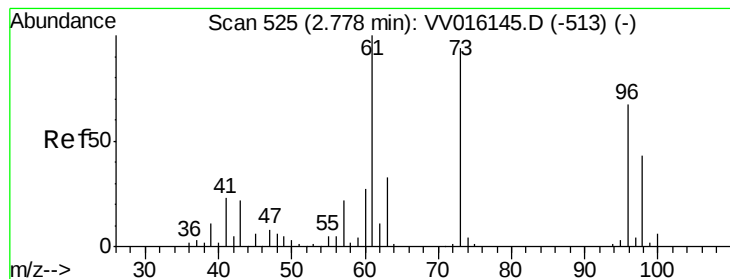
Ion Ratio Lower Upper

84 100

86 60.2 45.6 84.8

49 132.7 93.6 173.8





#18

trans-1,2-Dichloroethene

Concen: 1.216 ug/L

RT: 2.78 min Scan# 527

Delta R.T. 0.01 min

Lab File: VV016154.D

Acq: 21 May 2020 15:28

Instrument :
MSVOA_V
ClientSampled :

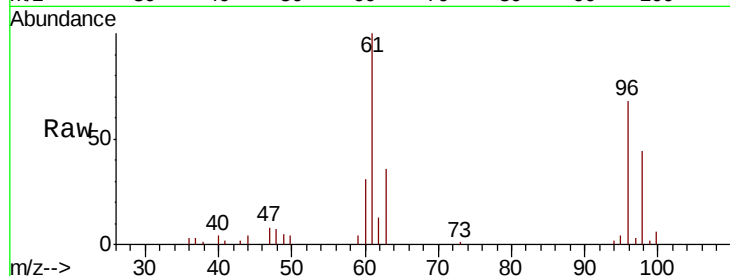
Tot Ion: 96 Resp: 10307

Ion Ratio Lower Upper

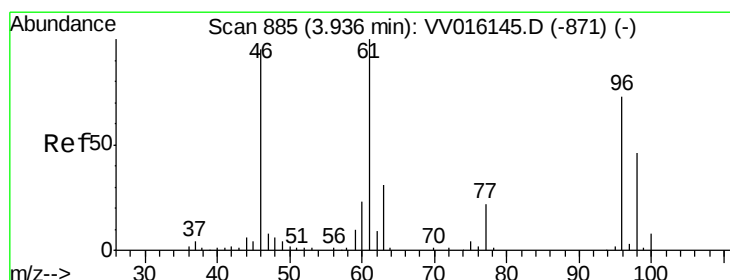
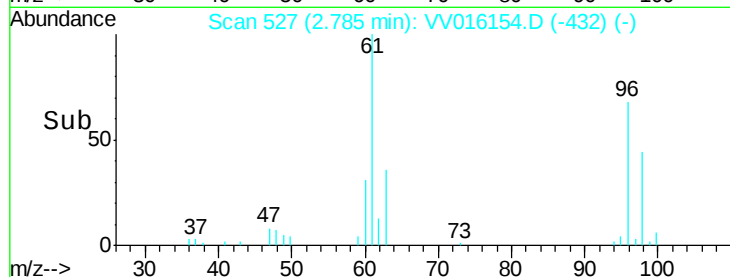
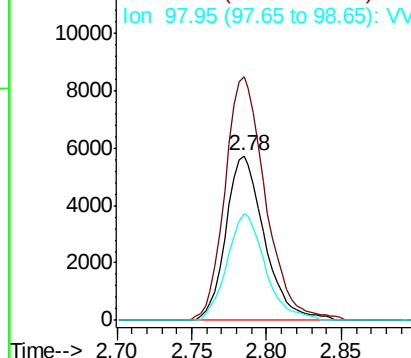
96 100

61 147.7 105.3 195.5

98 64.9 44.0 81.6



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



#22

cis-1,2-Dichloroethene

Concen: 15.367 ug/L

RT: 3.94 min Scan# 887

Delta R.T. 0.01 min

Lab File: VV016154.D

Acq: 21 May 2020 15:28

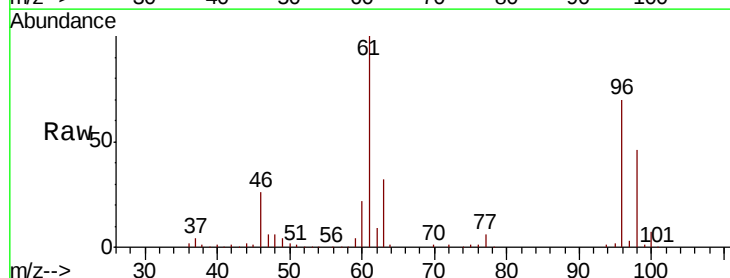
Tgt Ion: 96 Resp: 136406

Ion Ratio Lower Upper

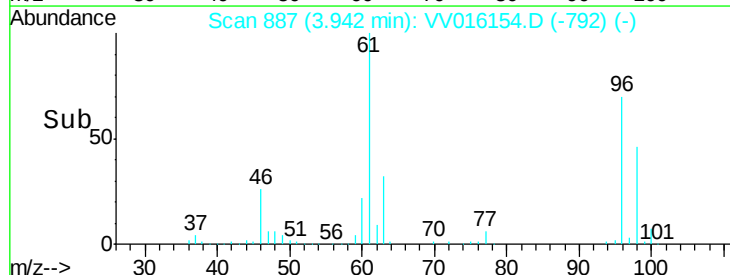
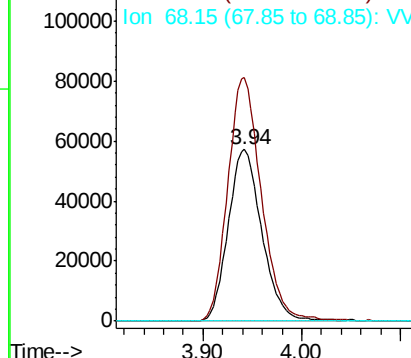
96 100

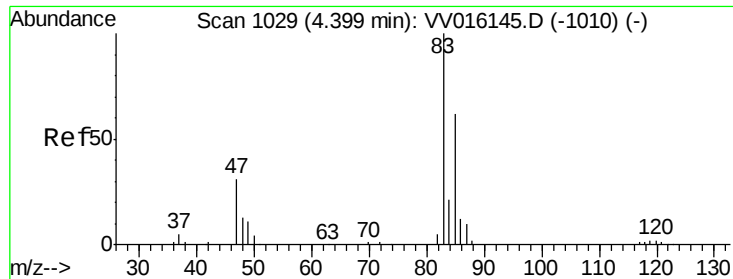
61 141.9 97.2 180.6

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

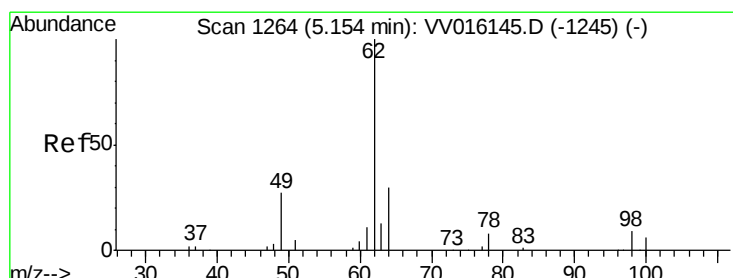
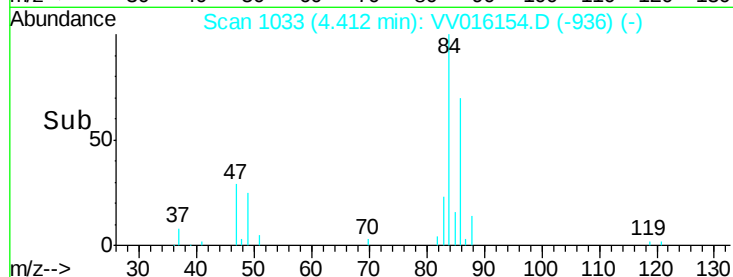
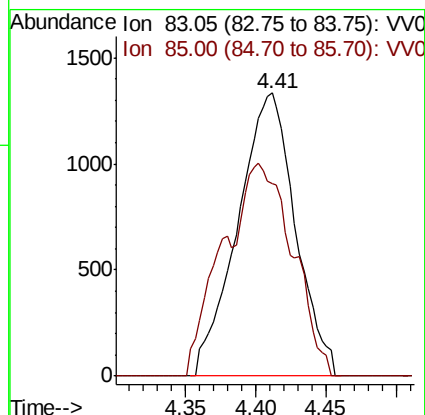
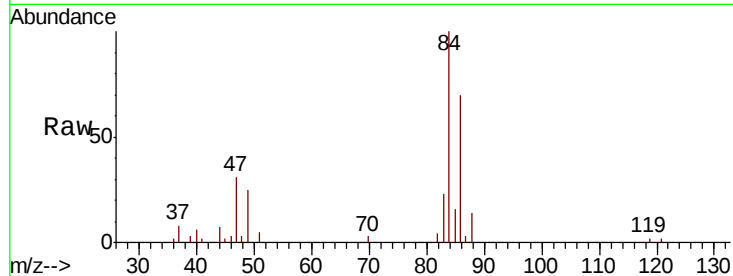




#25
Chloroform
Concen: 0.212 ug/L
RT: 4.41 min Scan# 1033
Delta R.T. 0.01 min
Lab File: VV016154.D
Acq: 21 May 2020 15:28

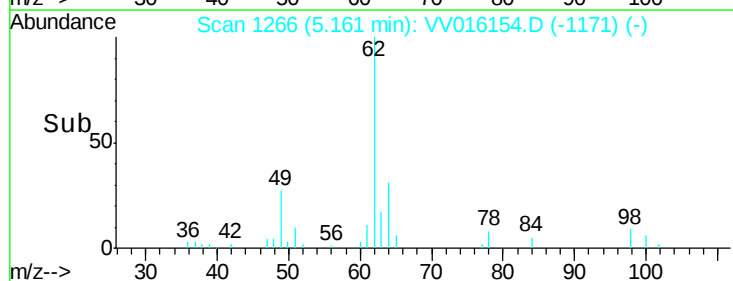
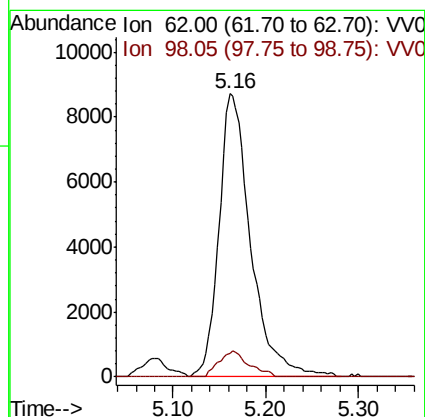
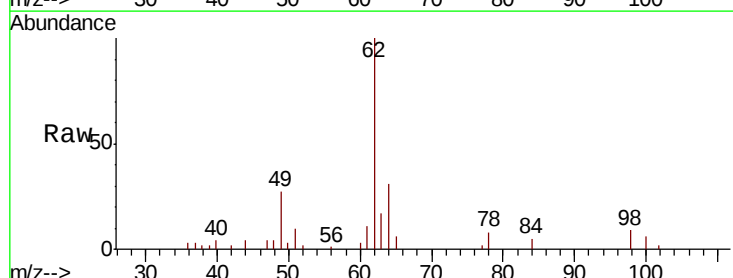
Instrument :
MSVOA_V
ClientSampled :

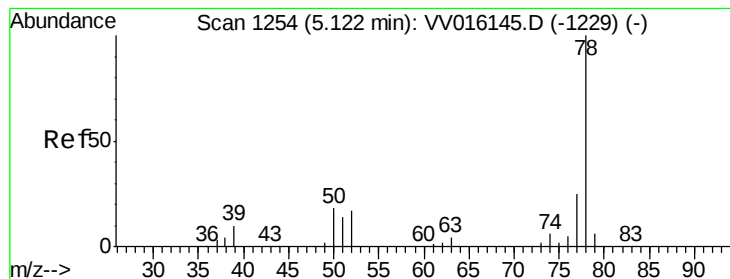
Tot Ion: 83 Resp: 3805
Ion Ratio Lower Upper
83 100
85 67.8 45.7 84.9



#27
1,2-Dichloroethane
Concen: 1.874 ug/L
RT: 5.16 min Scan# 1266
Delta R.T. 0.01 min
Lab File: VV016154.D
Acq: 21 May 2020 15:28

Tgt Ion: 62 Resp: 20711
Ion Ratio Lower Upper
62 100
98 8.5 6.7 10.1





#33

Benzene

Concen: 0.174 ug/L

RT: 5.14 min Scan# 1258

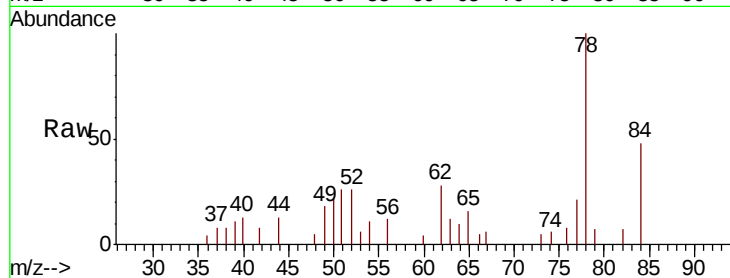
Delta R.T. 0.01 min

Lab File: VV016154.D

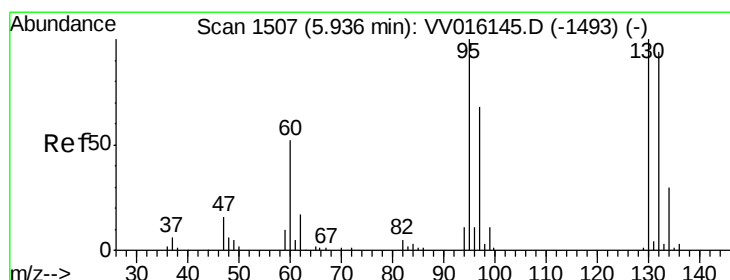
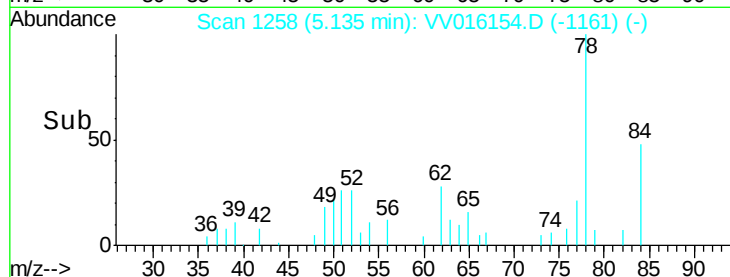
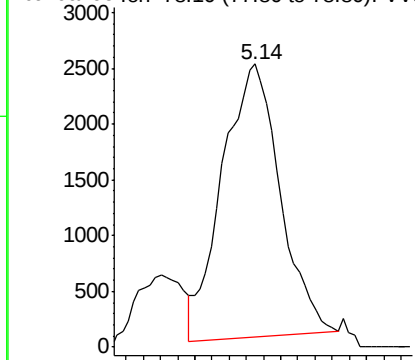
Acq: 21 May 2020 15:28

Instrument :
MSVOA_V
ClientSampled :

Tgt Ion: 78 Resp: 5719



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 8.581 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV016154.D

Acq: 21 May 2020 15:28

Tgt Ion: 95 Resp: 80578

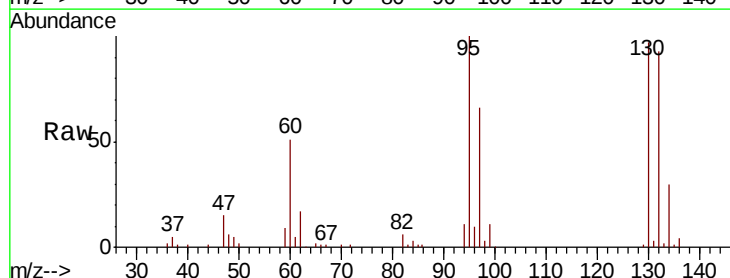
Ion Ratio Lower Upper

95 100

97 66.2 43.3 80.5

132 92.8 60.3 112.1

130 97.4 66.0 122.6

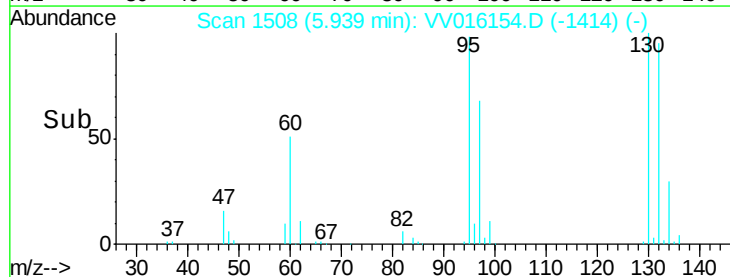
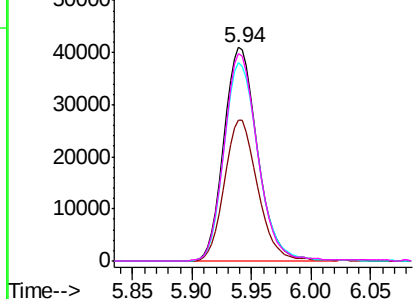


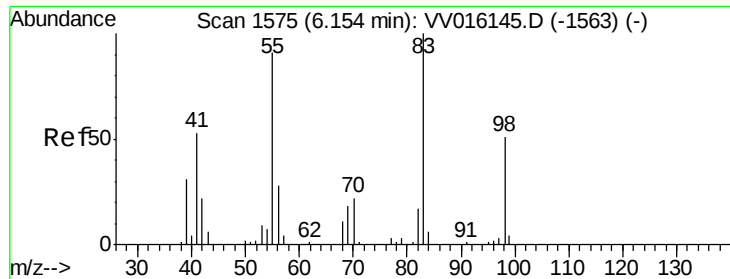
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

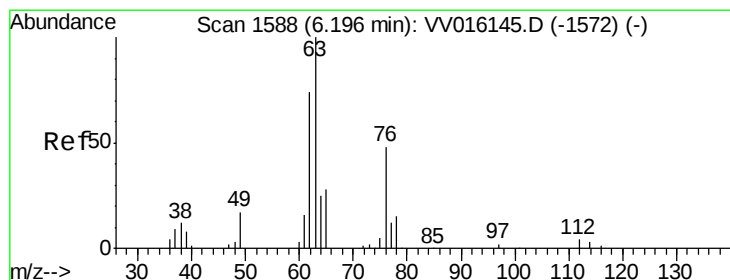
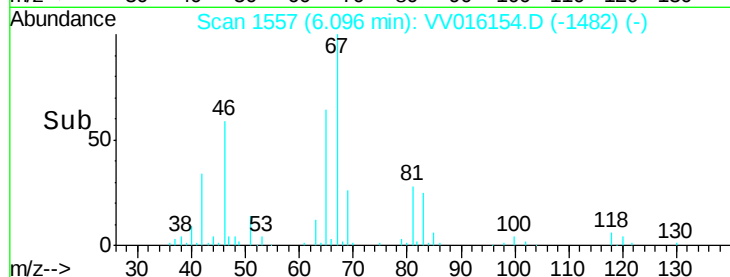
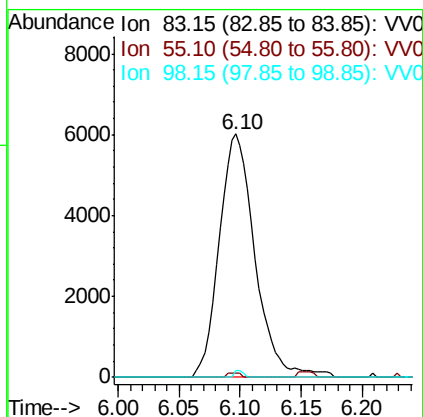
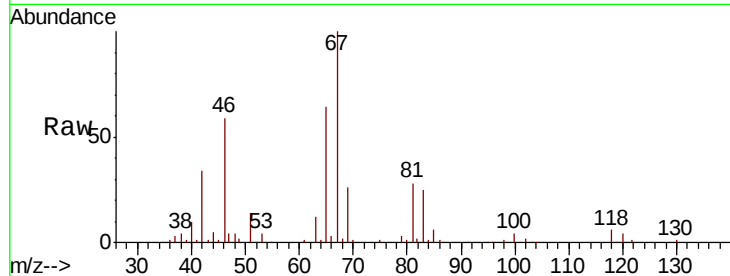




#35
Methvlcvclohexane
Concen: 0.871 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.06 min
Lab File: VV016154.D
Acq: 21 May 2020 15:28

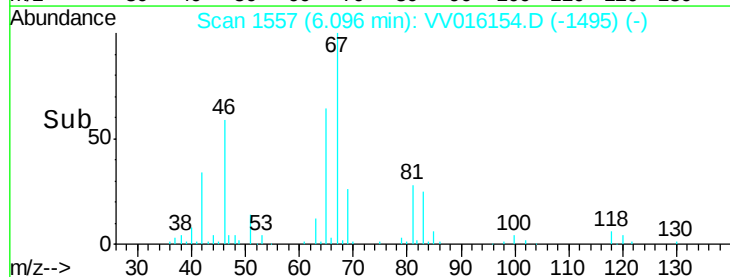
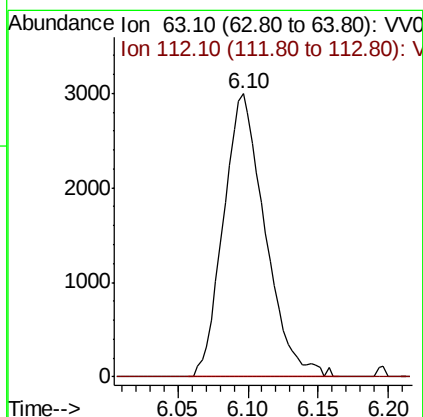
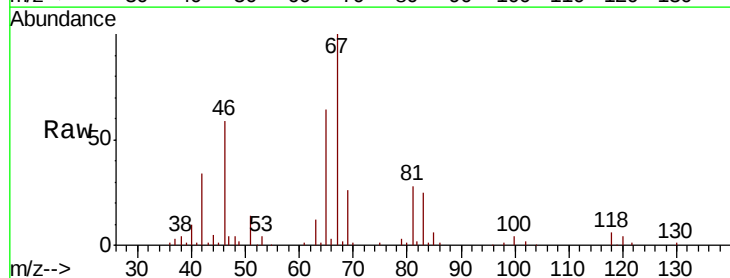
Instrument :
MSVOA_V
ClientSampleId :

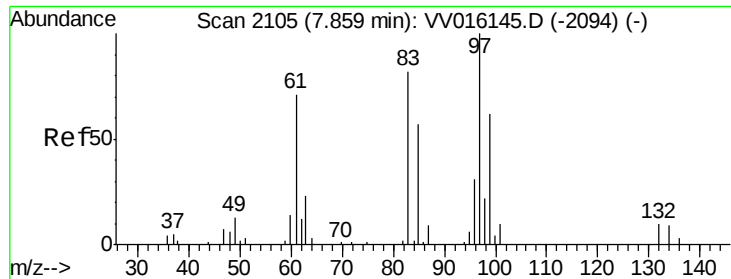
Tot Ion	Ratio	Lower	Upper
83	100		
55	0.7	66.2	99.2#
98	0.7	37.9	56.9#



#37
1,2-Dichloropropane
Concen: 0.738 ug/L
RT: 6.10 min Scan# 1557
Delta R.T. -0.10 min
Lab File: VV016154.D
Acq: 21 May 2020 15:28

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

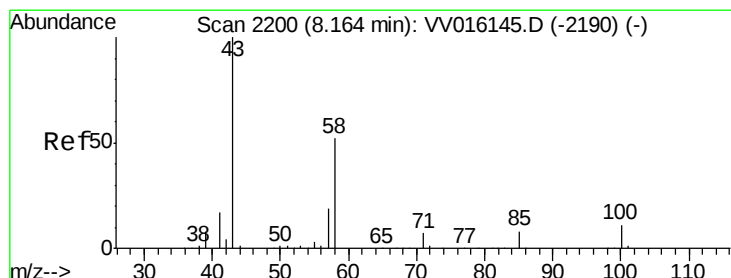
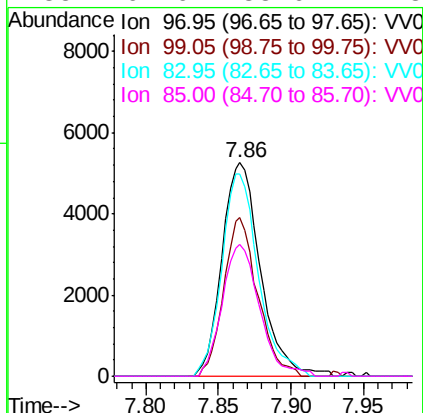
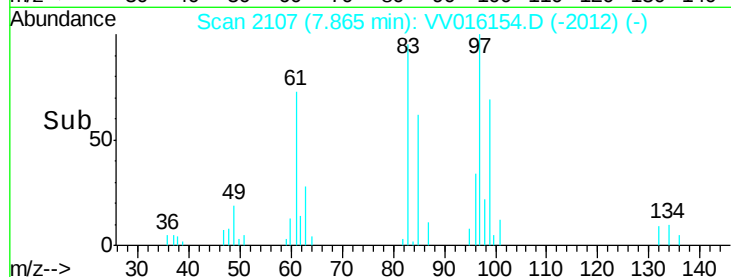
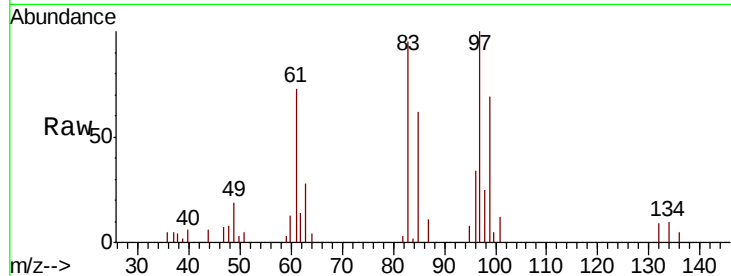




#47
 1,1,2-Trichloroethane
 Concen: 1.737 ug/L
 RT: 7.86 min Scan# 2107
 Delta R.T. 0.01 min
 Lab File: VV016154.D
 Acq: 21 May 2020 15:28

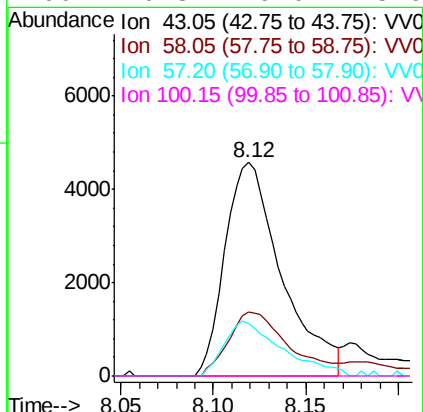
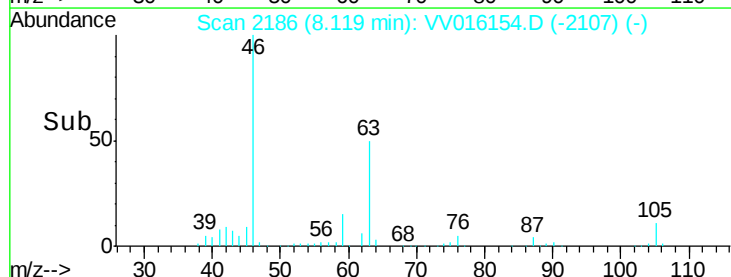
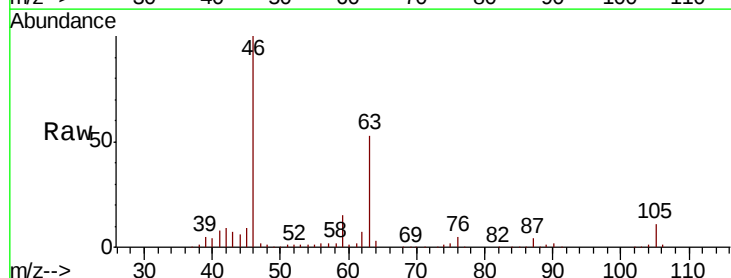
Instrument :
 MSVOA_V
 ClientSampleId :

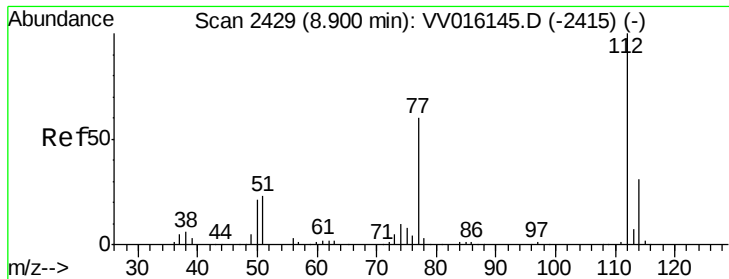
Tot Ion:	97	Resp:	9697
Ion	Ratio	Lower	Upper
97	100		
99	74.3	42.1	78.1
83	94.9	59.2	110.0
85	61.6	38.6	71.8



#50
 2-Hexanone
 Concen: 2.637 ug/L
 RT: 8.12 min Scan# 2186
 Delta R.T. -0.05 min
 Lab File: VV016154.D
 Acq: 21 May 2020 15:28

Tgt Ion:	43	Resp:	9717
Ion	Ratio	Lower	Upper
43	100		
58	31.9	40.8	61.2#
57	26.3	14.7	22.1#
100	0.3	9.0	13.6#

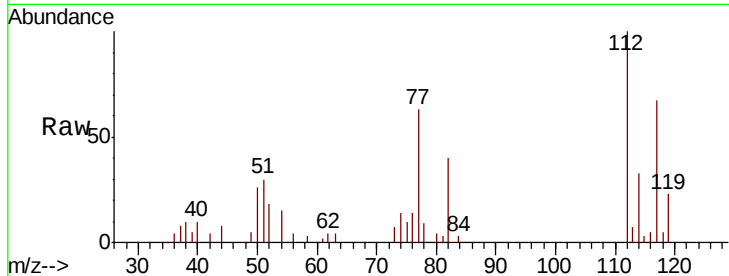




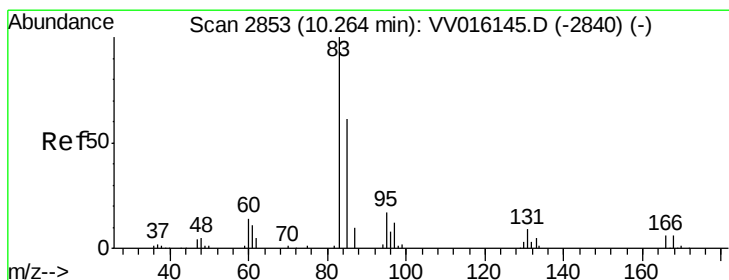
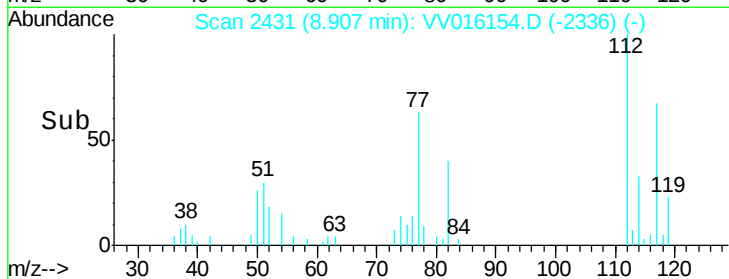
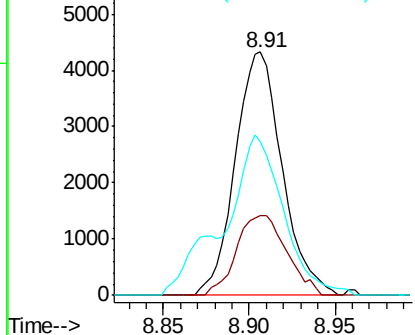
#53
Chlorobenzene
Concen: 0.366 ug/L
RT: 8.91 min Scan# 2431
Delta R.T. 0.01 min
Lab File: VV016154.D
Acq: 21 May 2020 15:28

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:112 Resp: 8207
Ion Ratio Lower Upper
112 100
114 32.6 21.6 40.0
77 63.3 48.6 73.0

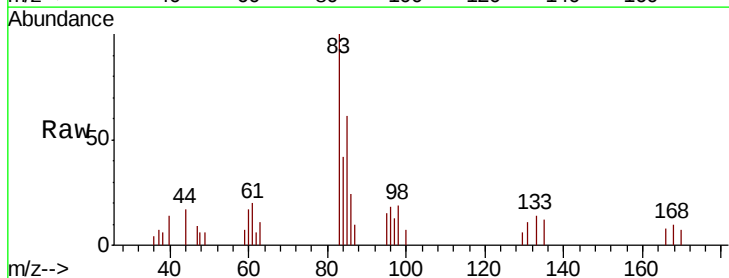


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

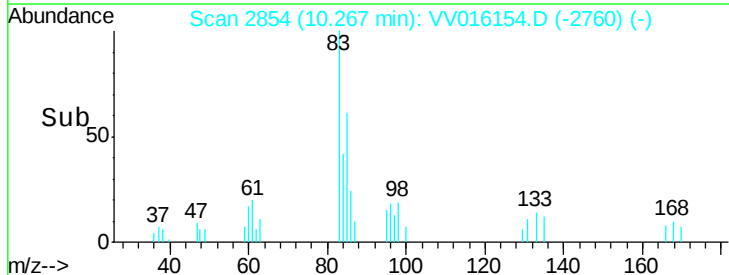
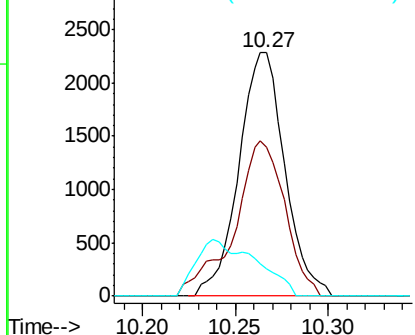


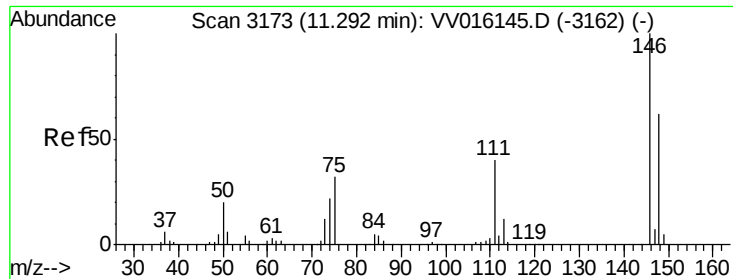
#60
1,1,2,2-Tetrachloroethane
Concen: 0.661 ug/L
RT: 10.27 min Scan# 2854
Delta R.T. 0.00 min
Lab File: VV016154.D
Acq: 21 May 2020 15:28

Tgt Ion: 83 Resp: 3941
Ion Ratio Lower Upper
83 100
85 60.9 44.0 81.6
131 11.3 7.7 11.5



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





#64

1,4-Dichlorobenzene

Concen: 0.239 ug/L

RT: 11.30 min Scan# 3174

Delta R.T. 0.00 min

Lab File: VV016154.D

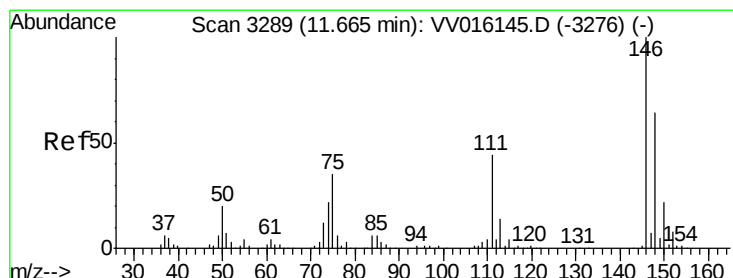
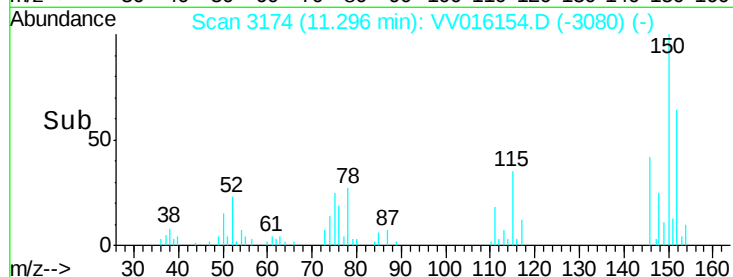
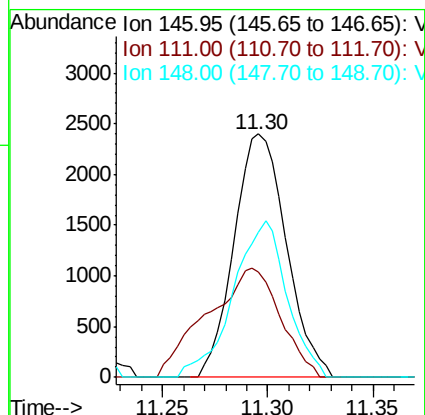
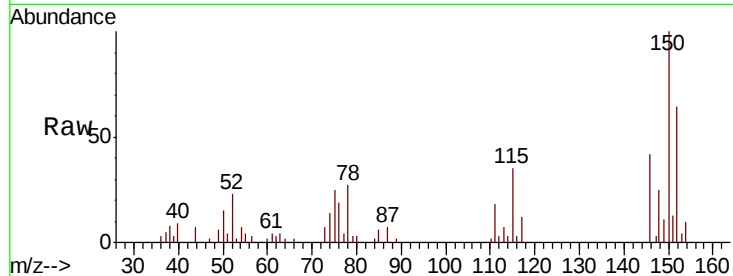
Acq: 21 May 2020 15:28

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion:146	Resp:	4133
Ion	Ratio	Lower Upper
146	100	
111	43.1	28.9 53.7
148	59.8	44.6 82.8



#66

1,2-Dichlorobenzene

Concen: 0.926 ug/L

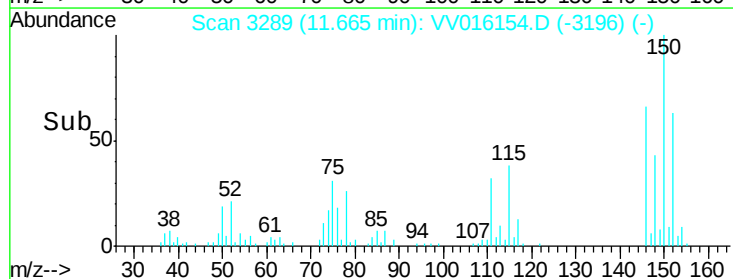
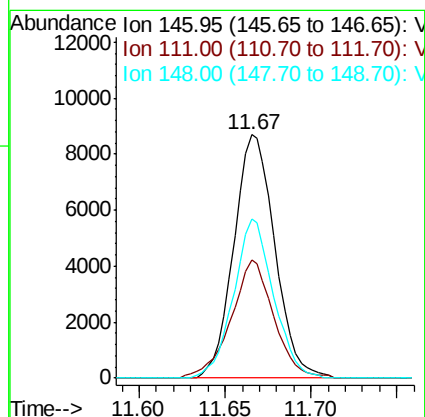
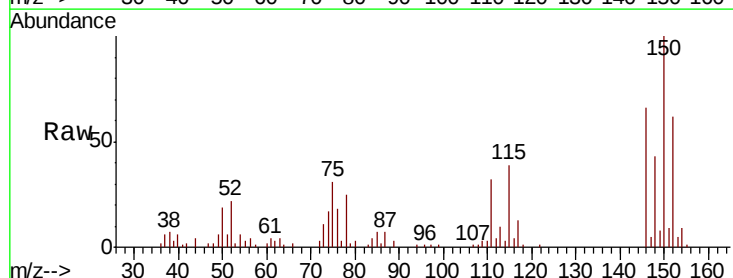
RT: 11.67 min Scan# 3289

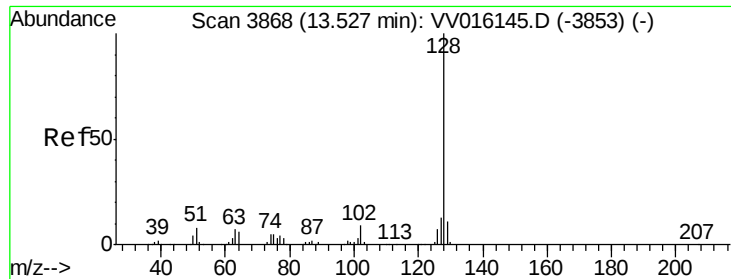
Delta R.T. -0.00 min

Lab File: VV016154.D

Acq: 21 May 2020 15:28

Tgt Ion:146	Resp:	14418
Ion	Ratio	Lower Upper
146	100	
111	48.6	37.0 55.4
148	65.3	49.8 74.6





#70

Naphthalene

Concen: 1.059 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. -0.00 min

Lab File: VV016154.D

Acq: 21 May 2020 15:28

Instrument :

MSVOA_V

ClientSampleId :

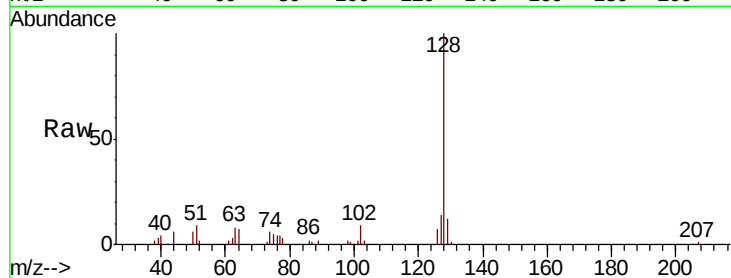
Tot Ion:128 Resp: 18198

Ion Ratio Lower Upper

128 100

129 11.4 8.5 12.7

127 13.1 10.2 15.2



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

