

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV052920\
 Data File : VV016337.D
 Acq On : 30 May 2020 02:19
 Operator : SY/MD
 Sample : L2826-10
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: May 30 03:10:42 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	79540	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	57931	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	12080	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	26108	5.11	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	102.20%
7) Chloroethane-d5	1.58	69	20278	4.52	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	90.40%
11) 1,1-Dichloroethene-d2	2.13	63	35906	3.74	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	74.80%
20) 2-Butanone-d5	3.94	46	74277	58.62	ug/L	-0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	117.24%
24) Chloroform-d	4.38	84	49290	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.00%
26) 1,2-Dichloroethane-d4	5.06	65	26603	4.94	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.80%
32) Benzene-d6	5.08	84	92860	6.47	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	129.40%#
36) 1,2-Dichloropropane-d6	6.10	67	28071	6.32	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	126.40%
41) Toluene-d8	7.34	98	78356	5.73	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	114.60%
45) trans-1,3-Dichloropropene-	7.64	79	9329	5.64	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	112.80%
48) 2-Hexanone-d5	8.12	63	55225	72.76	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	145.52%#
59) 1,1,2,2-Tetrachloroethane-	10.24	84	12673	3.86	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	77.20%
65) 1,2-Dichlorobenzene-d4	11.65	152	9196	4.56	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	91.20%

Target Compounds

					Ovalue
3) Chloromethane	1.25	50	1228	0.160 ug/L	100
5) Vinyl chloride	1.32	62	32628	4.684 ug/L #	1
8) Chloroethane	1.86	64	1874	0.482 ug/L #	51
12) 1,1-Dichloroethene	2.14	96	1555	0.331 ug/L #	1
13) Acetone	2.22	43	1434	1.828 ug/L #	51
14) Carbon disulfide	2.31	76	31918	2.195 ug/L	99
16) Methylene chloride	2.52	84	11125	2.068 ug/L	99
17) Methyl tert-butyl Ether	2.79	73	2824	0.244 ug/L #	1
18) trans-1,2-Dichloroethene	2.78	96	40066	7.804 ug/L	94
21) 2-Butanone	4.03	43	389615	279.231 ug/L	91
22) cis-1,2-Dichloroethene	3.94	96	514295	84.698 ug/L	97
23) Bromochloromethane	4.28	128	505	0.219 ug/L	79
25) Chloroform	4.41	83	34875	3.379 ug/L	96
27) 1,2-Dichloroethane	5.08	62	637	0.094 ug/L #	79
30) Cyclohexane	4.70	56	1318	0.179 ug/L #	78
33) Benzene	5.14	78	2489	0.149 ug/L	100
34) Trichloroethene	5.94	95	59110	13.611 ug/L	97

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Instrument :
MSVOA_V
ClientSampleId :

Quant Time: May 30 03:10:42 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

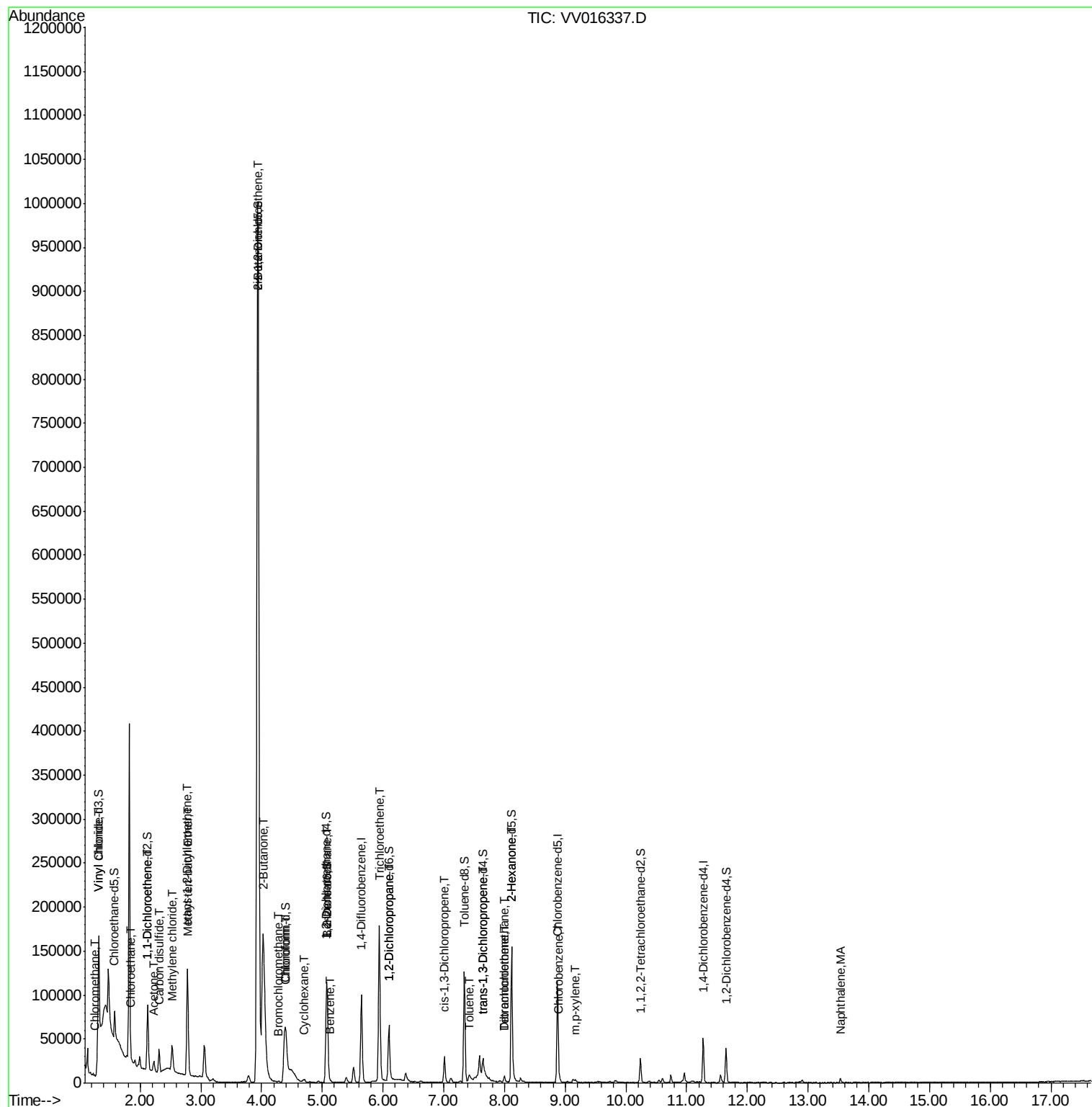
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
37) 1,2-Dichloropropane	6.10	63	3427	0.838	ug/L #	88
39) cis-1,3-Dichloropropene	7.01	75	753	0.130	ug/L #	81
42) Toluene	7.42	91	5037	0.277	ug/L	98
46) trans-1,3-Dichloropropene	7.65	75	696	0.145	ug/L #	73
49) Tetrachloroethene	8.00	164	1233	0.395	ug/L	97
50) 2-Hexanone	8.11	43	6667	3.758	ug/L #	69
51) Dibromochloromethane	8.00	129	1323	0.464	ug/L #	10
53) Chlorobenzene	8.90	112	2128	0.189	ug/L	92
55) m,p-xylene	9.16	106	734	0.097	ug/L	98
70) Naphthalene	13.53	128	4258	0.851	ug/L	97

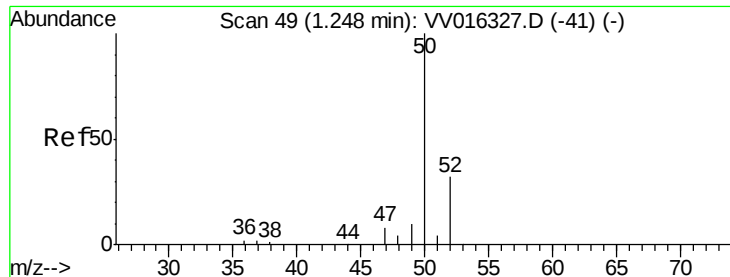
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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





#3

Chloromethane

Concen: 0.160 ug/L

RT: 1.25 min Scan# 50

Delta R.T. 0.00 min

Lab File: VV016337.D

Acq: 30 May 2020 02:19

Instrument :

MSVOA_V

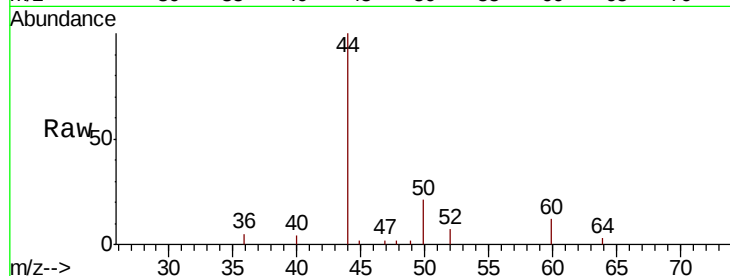
ClientSampled :

Tot Ion: 50 Resp: 1228

Ion Ratio Lower Upper

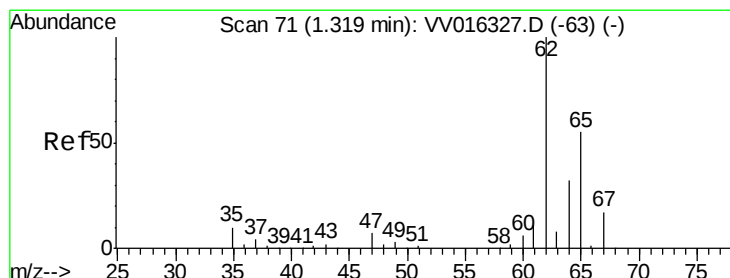
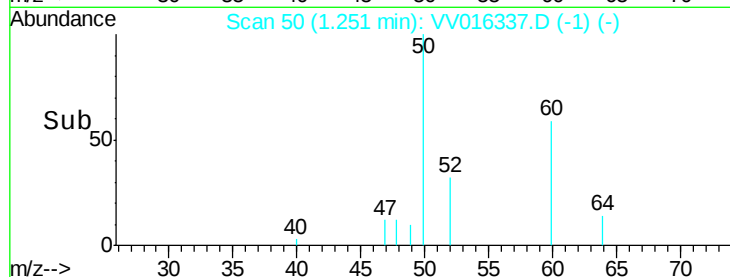
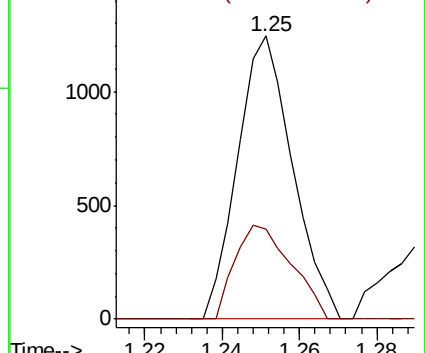
50 100

52 32.1 22.5 41.9



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



#5

Vinyl chloride

Concen: 4.684 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VV016337.D

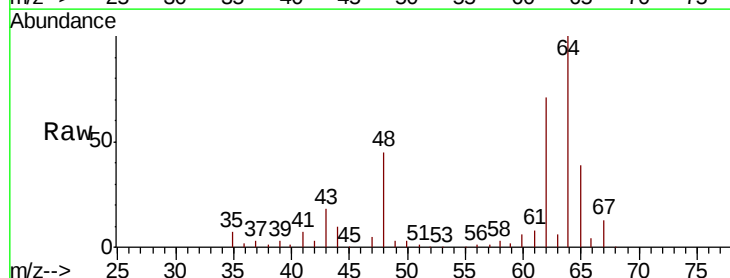
Acq: 30 May 2020 02:19

Tgt Ion: 62 Resp: 32628

Ion Ratio Lower Upper

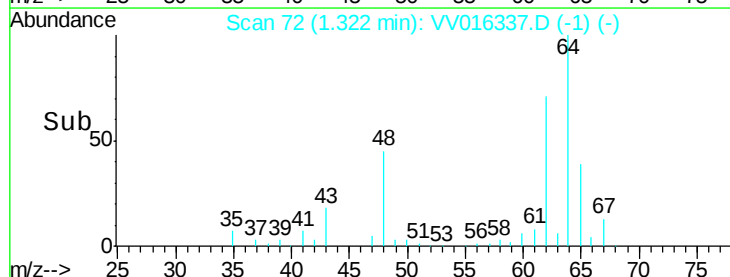
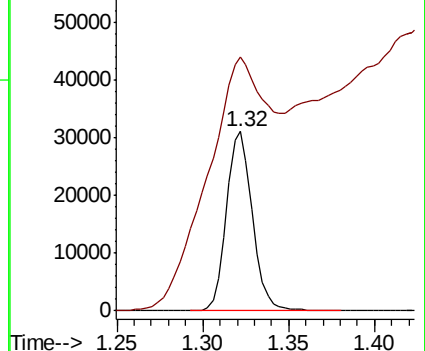
62 100

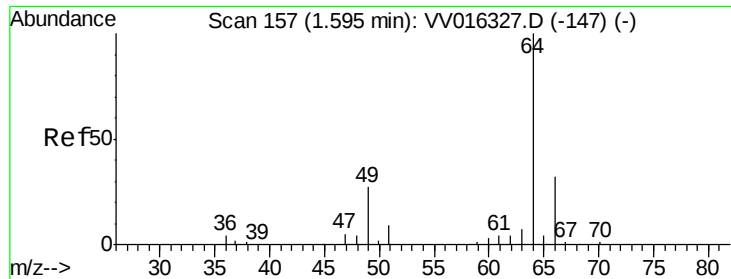
64 141.1 22.1 41.1#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0

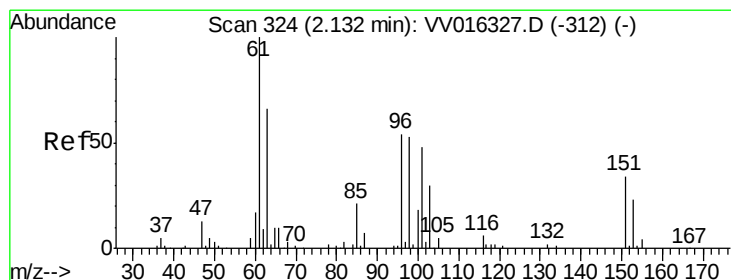
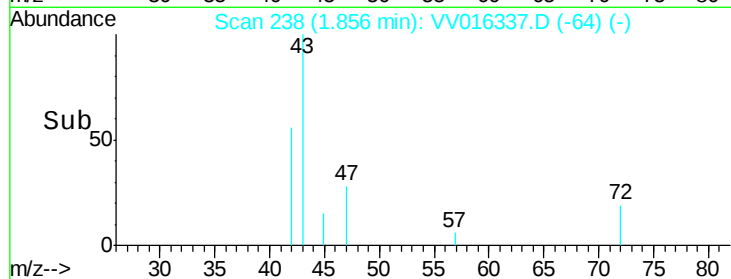
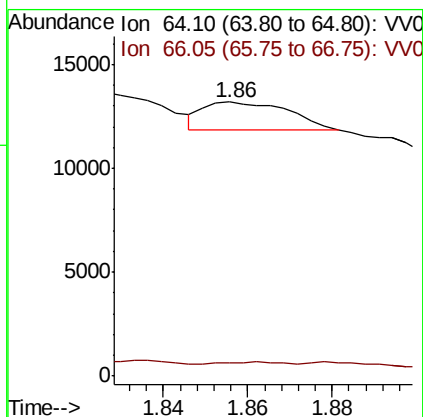
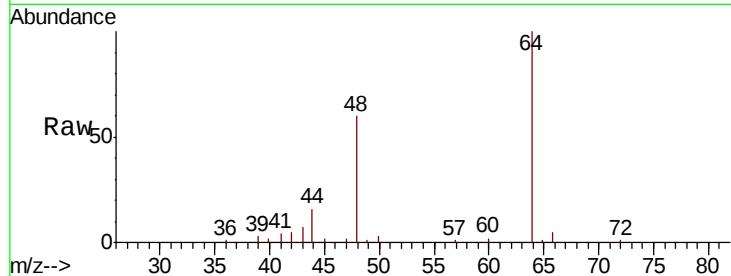




#8
 Chloroethane
 Concen: 0.482 ug/L
 RT: 1.86 min Scan# 238
 Delta R.T. 0.26 min
 Lab File: VV016337.D
 Acq: 30 May 2020 02:19

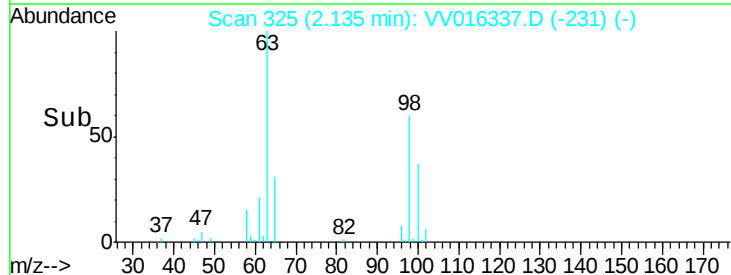
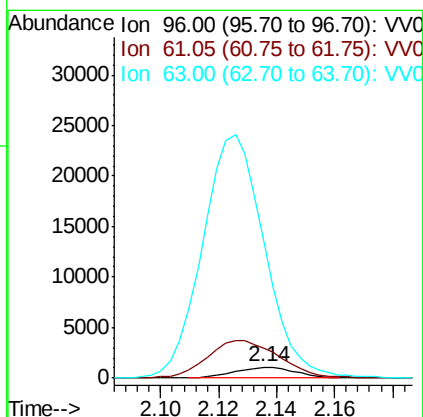
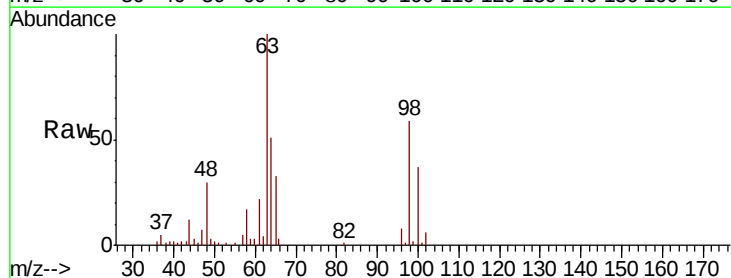
Instrument :
 MSVOA_V
 ClientSampleId :

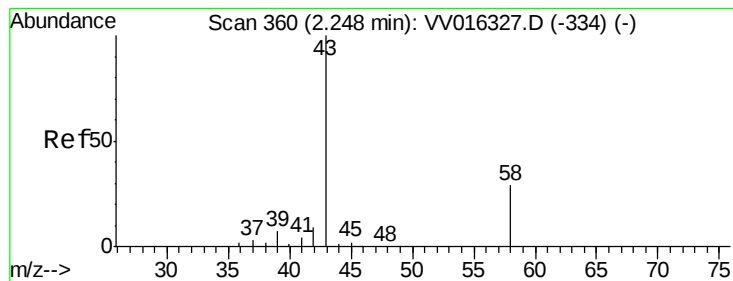
Tot Ion: 64 Resp: 1874
 Ion Ratio Lower Upper
 64 100
 66 5.0 22.9 42.5#



#12
 1,1-Dichloroethene
 Concen: 0.331 ug/L
 RT: 2.14 min Scan# 325
 Delta R.T. 0.00 min
 Lab File: VV016337.D
 Acq: 30 May 2020 02:19

Tgt Ion: 96 Resp: 1555
 Ion Ratio Lower Upper
 96 100
 61 281.4 124.9 231.9#
 63 1279.2 80.4 149.2#





#13

Acetone

Concen: 1.828 ug/L

RT: 2.22 min Scan# 352

Delta R.T. -0.03 min

Lab File: VV016337.D

Acq: 30 May 2020 02:19

Instrument :

MSVOA_V

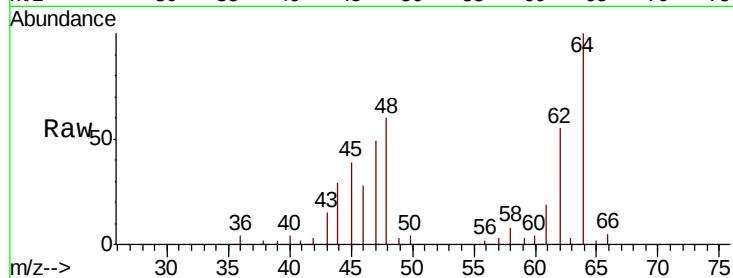
ClientSampleId :

Tot Ion: 43 Resp: 1434

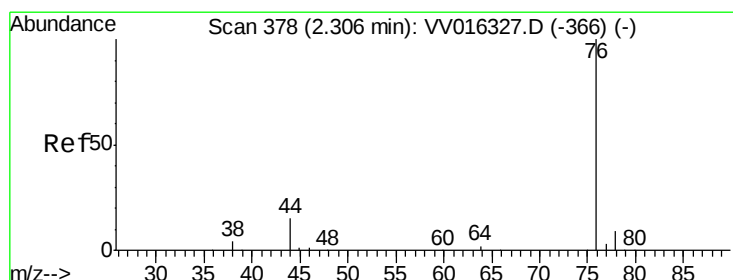
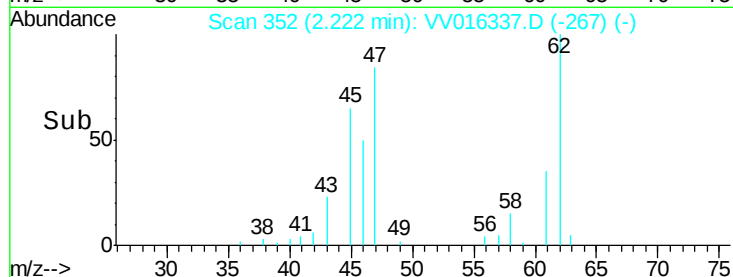
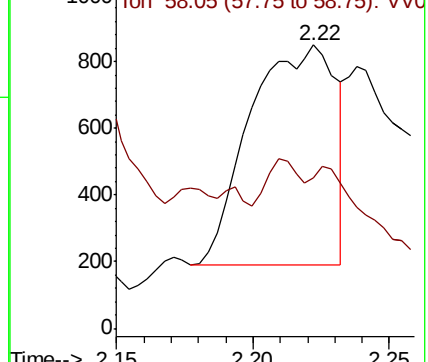
Ion Ratio Lower Upper

43 100

58 0.0 0.0 48.8



Abundance Ion 43.05 (42.75 to 43.75): VV016337.D (-267) (-)



#14

Carbon disulfide

Concen: 2.195 ug/L

RT: 2.31 min Scan# 380

Delta R.T. 0.01 min

Lab File: VV016337.D

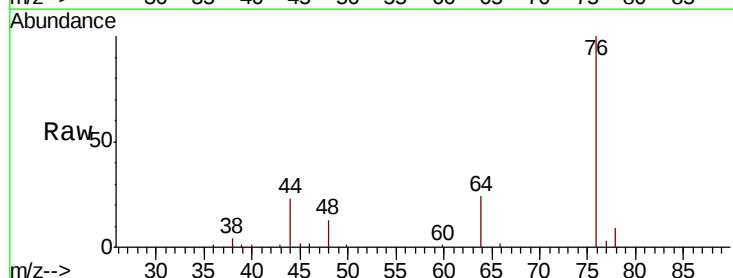
Acq: 30 May 2020 02:19

Tgt Ion: 76 Resp: 31918

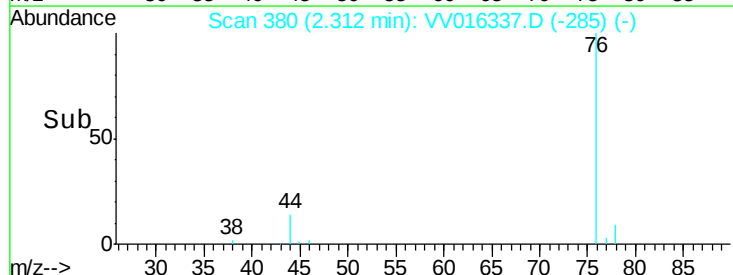
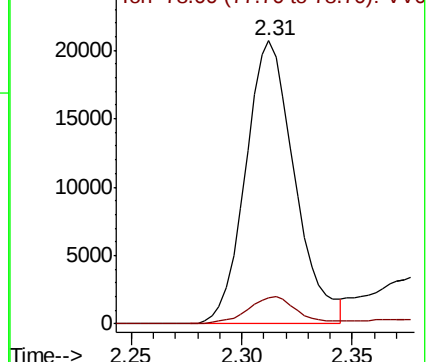
Ion Ratio Lower Upper

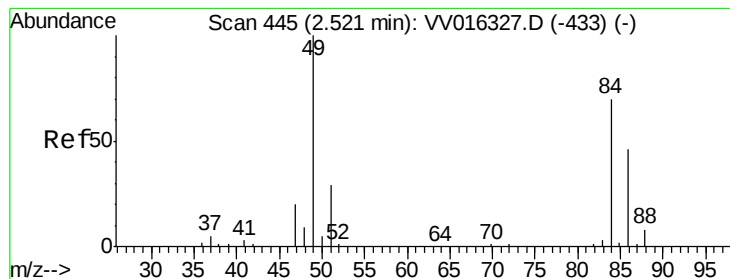
76 100

78 9.4 7.4 11.0



Abundance Ion 76.05 (75.75 to 76.75): VV016337.D (-285) (-)





#16

Methvlene chloride

Concen: 2.068 ug/L

RT: 2.52 min Scan# 446

Delta R.T. 0.00 min

Lab File: VV016337.D

Acq: 30 May 2020 02:19

Instrument :

MSVOA_V

ClientSampled :

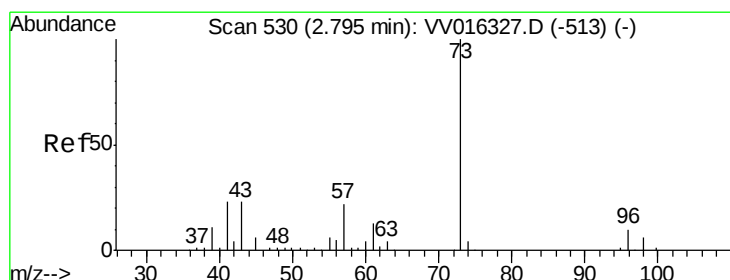
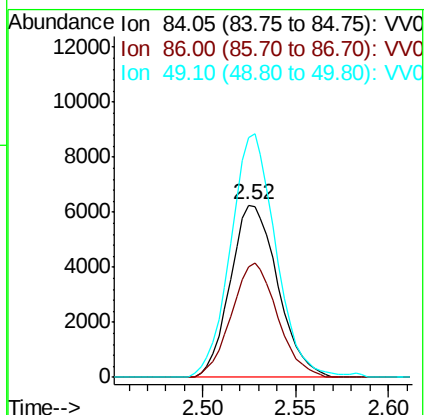
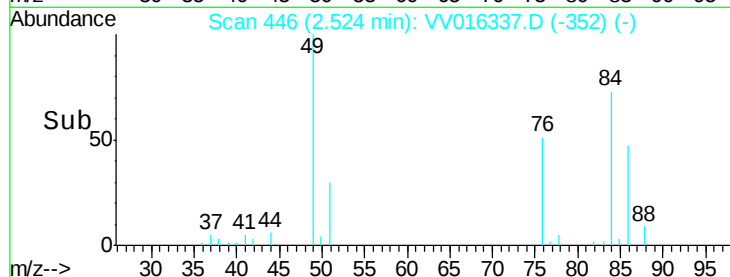
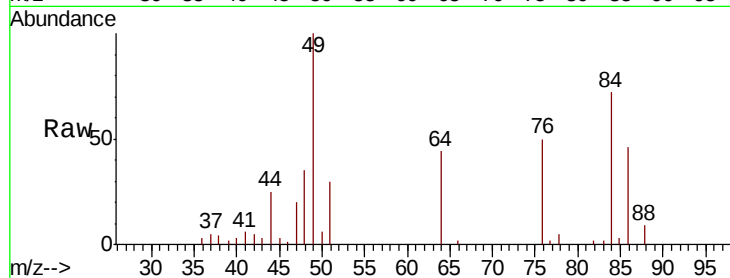
Tot Ion: 84 Resp: 11125

Ion Ratio Lower Upper

84 100

86 63.9 44.9 83.5

49 139.6 96.7 179.7



#17

Methyl tert-butyl Ether

Concen: 0.244 ug/L

RT: 2.79 min Scan# 530

Delta R.T. 0.00 min

Lab File: VV016337.D

Acq: 30 May 2020 02:19

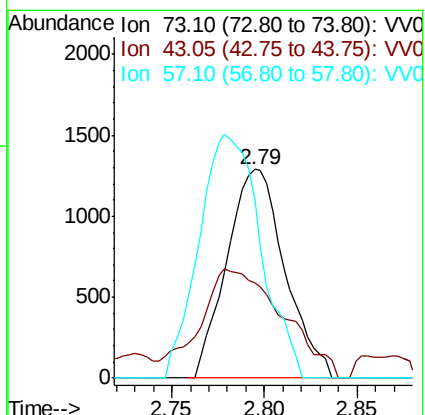
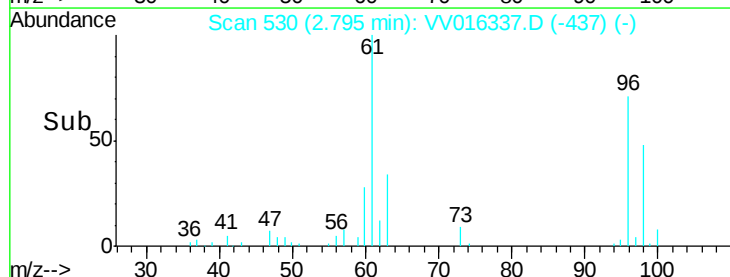
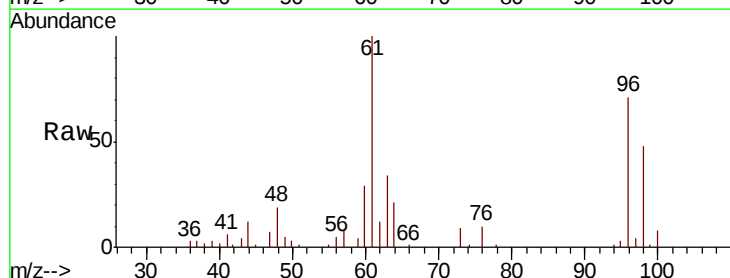
Tgt Ion: 73 Resp: 2824

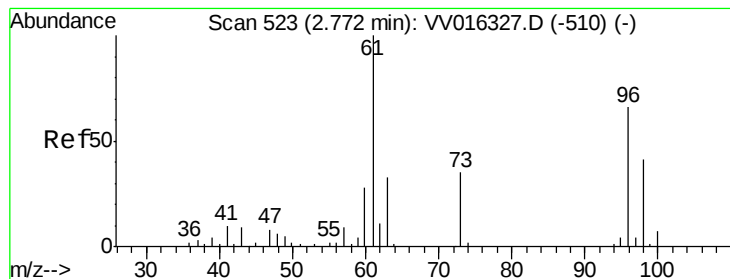
Ion Ratio Lower Upper

73 100

43 75.4 17.8 26.8#

57 123.0 18.9 28.3#





#18

trans-1,2-Dichloroethene

Concen: 7.804 ug/L

RT: 2.78 min Scan# 525

Delta R.T. 0.01 min

Lab File: VV016337.D

Acq: 30 May 2020 02:19

Instrument :

MSVOA_V

ClientSampled :

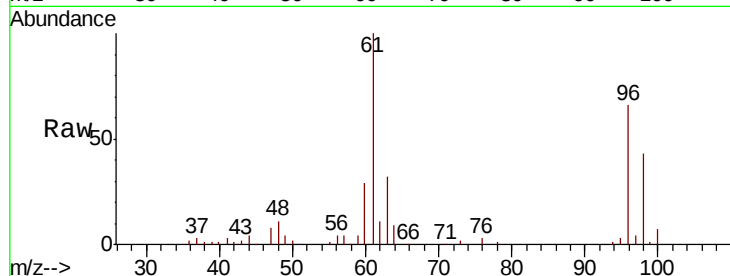
Tot Ion: 96 Resp: 40066

Ion Ratio Lower Upper

96 100

61 152.4 99.8 185.4

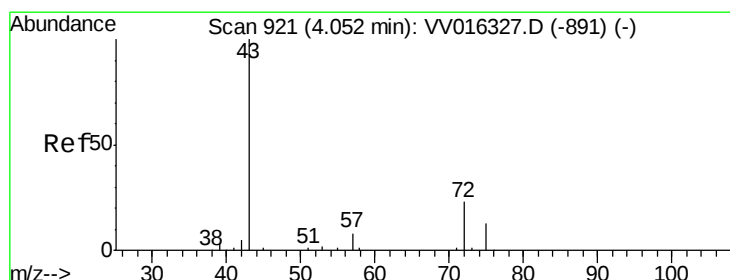
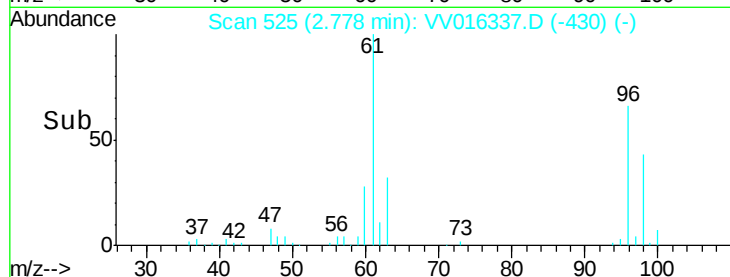
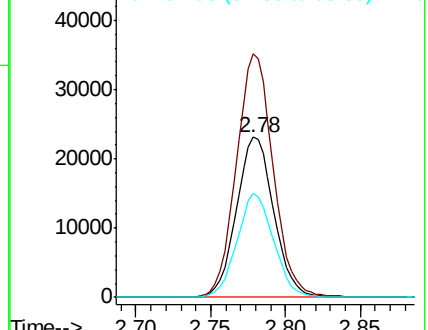
98 64.9 44.0 81.6



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



#21

2-Butanone

Concen: 279.231 ug/L

RT: 4.03 min Scan# 913

Delta R.T. -0.03 min

Lab File: VV016337.D

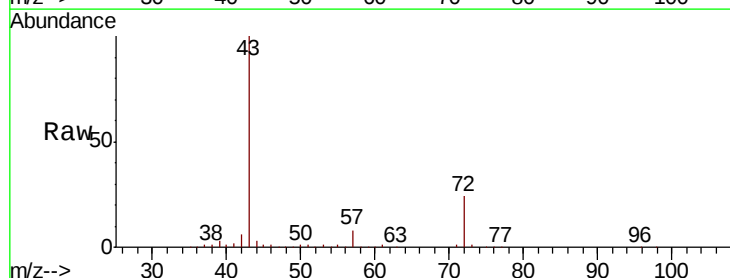
Acq: 30 May 2020 02:19

Tgt Ion: 43 Resp: 389615

Ion Ratio Lower Upper

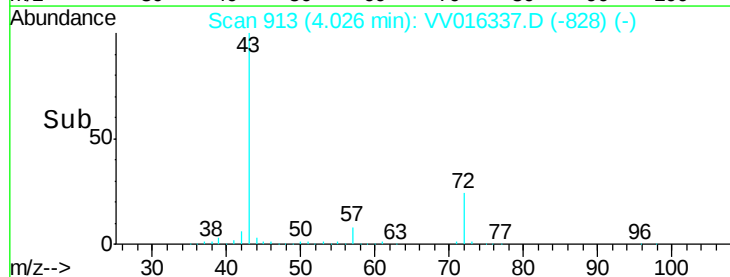
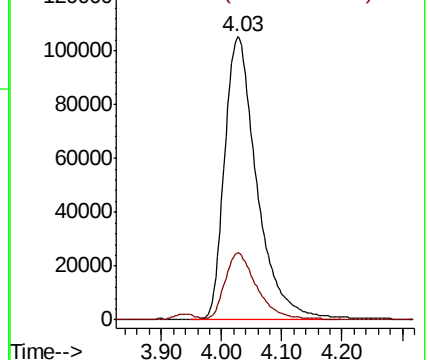
43 100

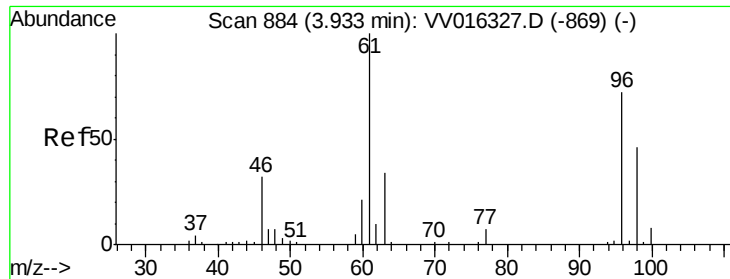
72 23.4 9.7 28.9



Abundance Ion 43.00 (42.70 to 43.70): VV0

Ion 72.00 (71.70 to 72.70): VV0



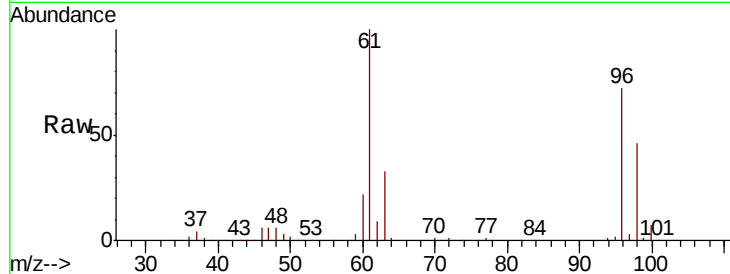


#22

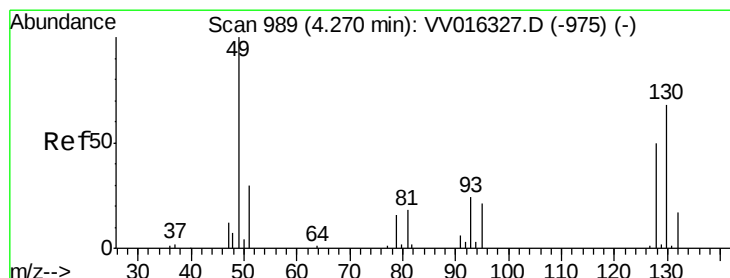
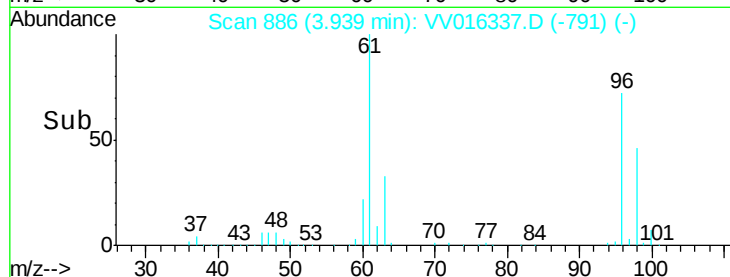
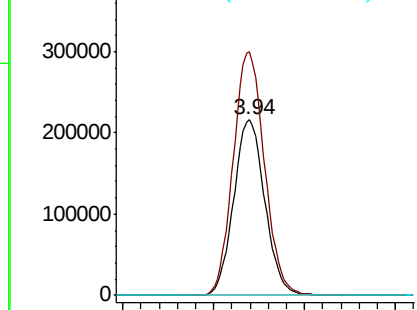
cis-1,2-Dichloroethene
Concen: 84.698 ug/L
RT: 3.94 min Scan# 886
Delta R.T. 0.01 min
Lab File: VV016337.D
Acq: 30 May 2020 02:19

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 96 Resp: 514295
Ion Ratio Lower Upper
96 100
61 138.6 99.7 185.1
68 0.0 0.0 0.0



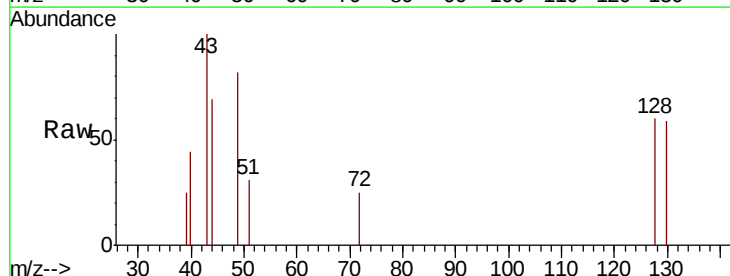
Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 68.15 (67.85 to 68.85): VV0



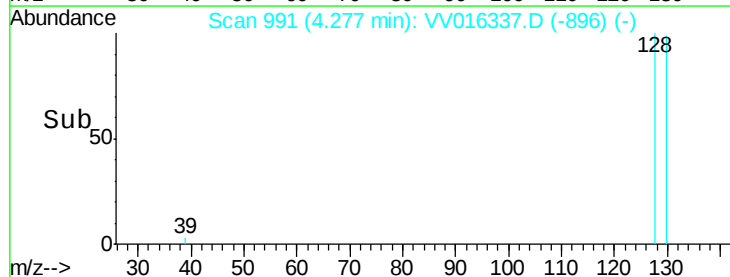
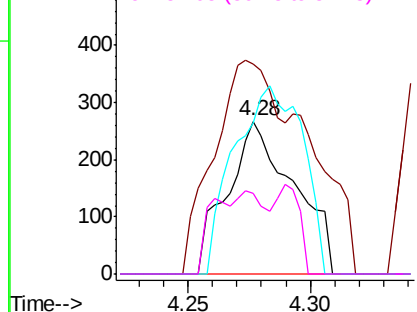
#23

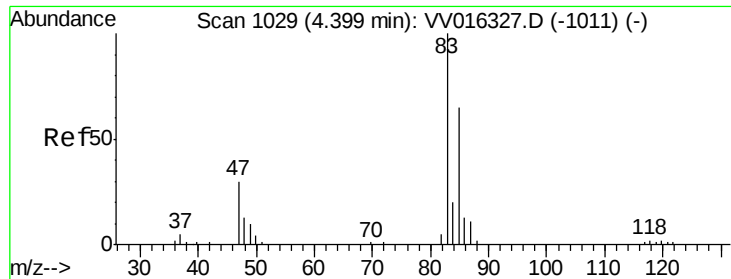
Bromochloromethane
Concen: 0.219 ug/L
RT: 4.28 min Scan# 991
Delta R.T. 0.01 min
Lab File: VV016337.D
Acq: 30 May 2020 02:19

Tgt Ion: 128 Resp: 505
Ion Ratio Lower Upper
128 100
49 137.5 125.5 233.1
130 98.9 83.0 154.2
51 52.8 42.9 64.3



Abundance Ion 127.90 (127.60 to 128.60): V
Ion 49.10 (48.80 to 49.80): VV0
Ion 129.95 (129.65 to 130.65): V
Ion 51.05 (50.75 to 51.75): VV0

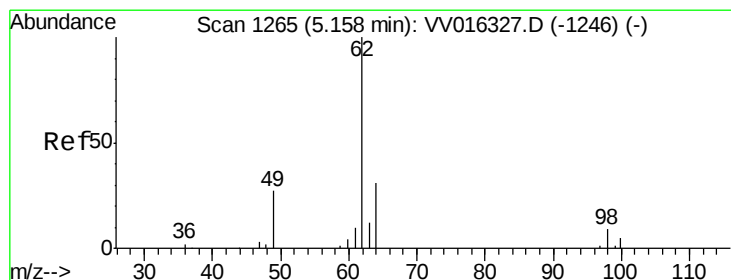
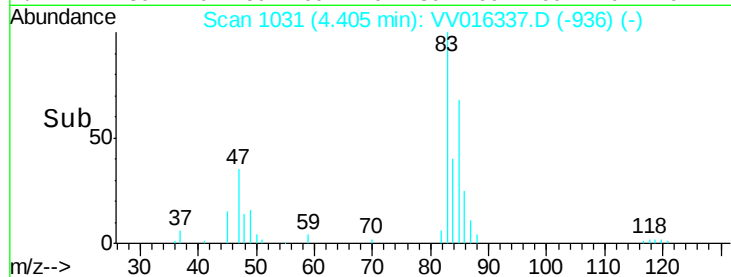
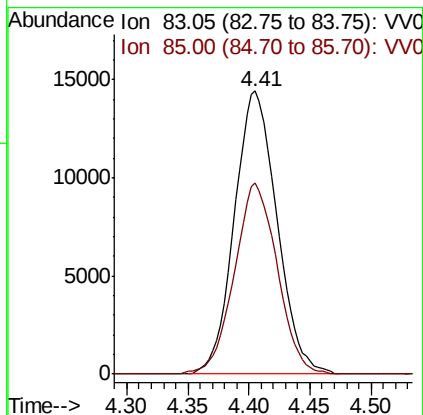
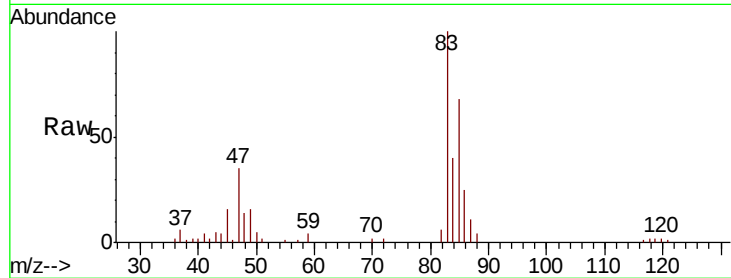




#25
Chloroform
Concen: 3.379 ug/L
RT: 4.41 min Scan# 1031
Delta R.T. 0.01 min
Lab File: VV016337.D
Acq: 30 May 2020 02:19

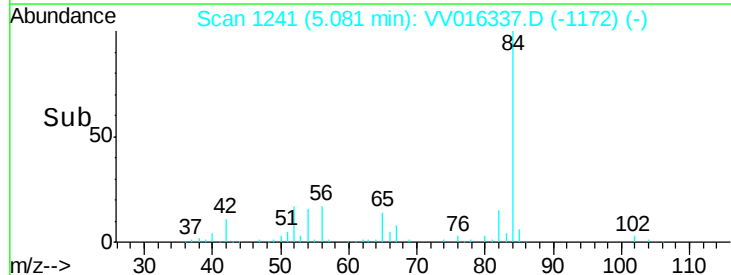
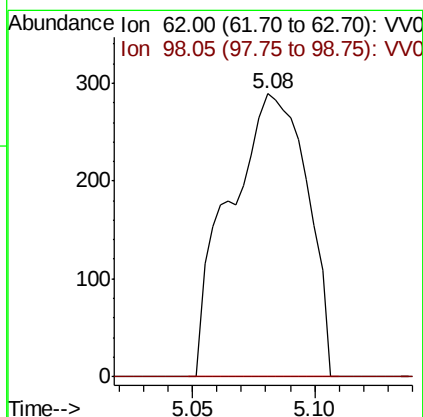
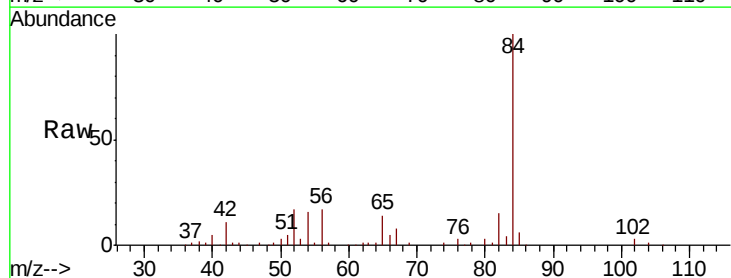
Instrument :
MSVOA_V
ClientSampleId :

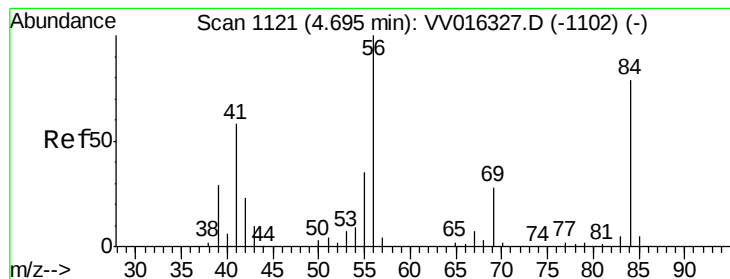
Tot Ion: 83 Resp: 34875
Ion Ratio Lower Upper
83 100
85 67.7 45.1 83.7



#27
1,2-Dichloroethane
Concen: 0.094 ug/L
RT: 5.08 min Scan# 1241
Delta R.T. -0.08 min
Lab File: VV016337.D
Acq: 30 May 2020 02:19

Tgt Ion: 62 Resp: 637
Ion Ratio Lower Upper
62 100
98 0.0 5.7 8.5#





#30

Cyclohexane

Concen: 0.179 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. 0.01 min

Lab File: VV016337.D

Acq: 30 May 2020 02:19

Instrument :

MSVOA_V

ClientSampleId :

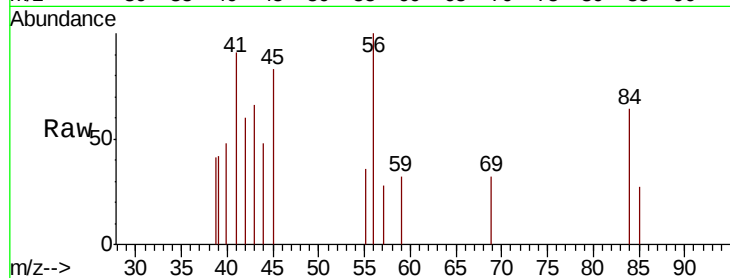
Tot Ion: 56 Resp: 1318

Ion Ratio Lower Upper

56 100

69 19.2 24.6 36.8#

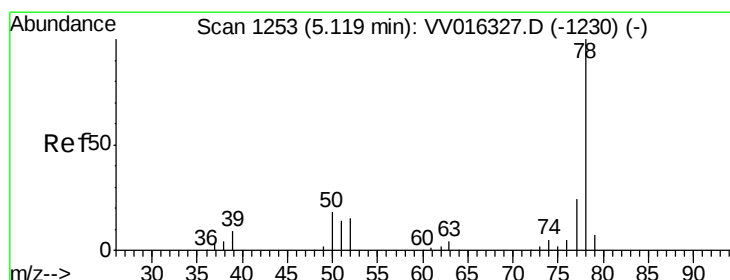
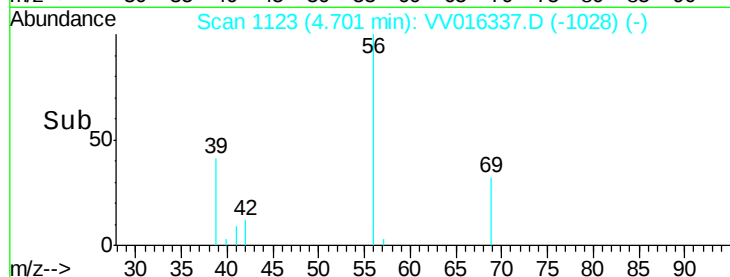
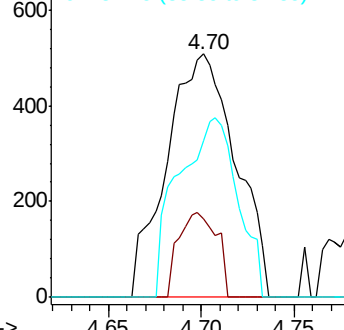
84 63.2 67.1 100.7#



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



#33

Benzene

Concen: 0.149 ug/L

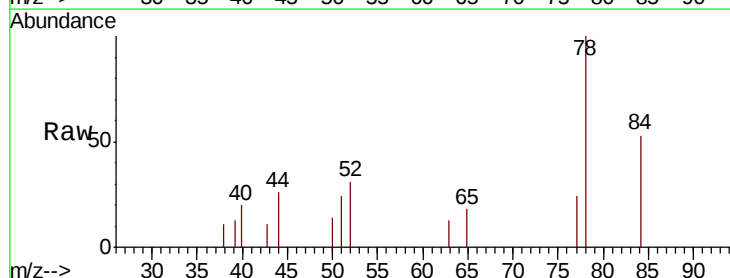
RT: 5.14 min Scan# 1258

Delta R.T. 0.02 min

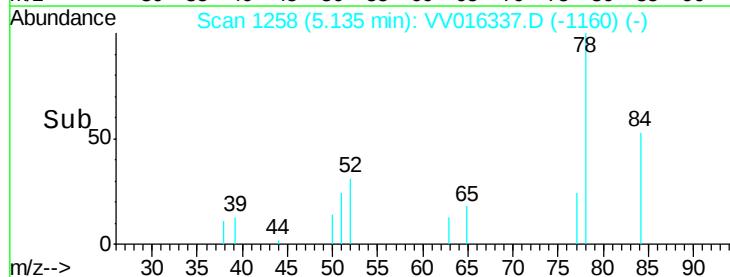
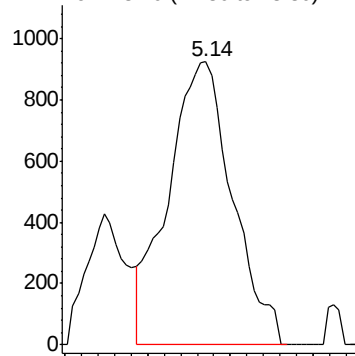
Lab File: VV016337.D

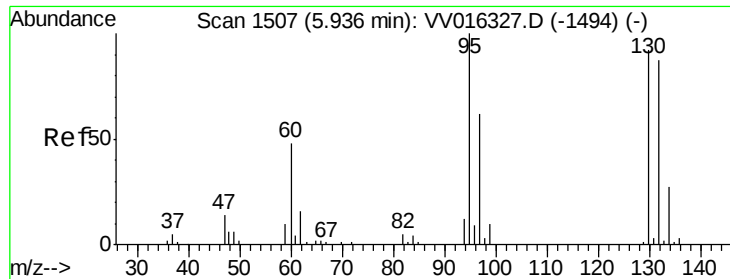
Acq: 30 May 2020 02:19

Tgt Ion: 78 Resp: 2489



Abundance Ion 78.10 (77.80 to 78.80): VV0

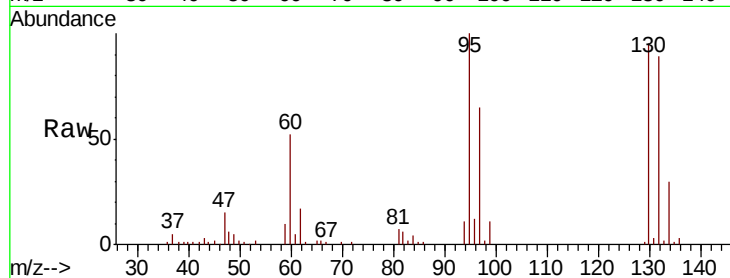




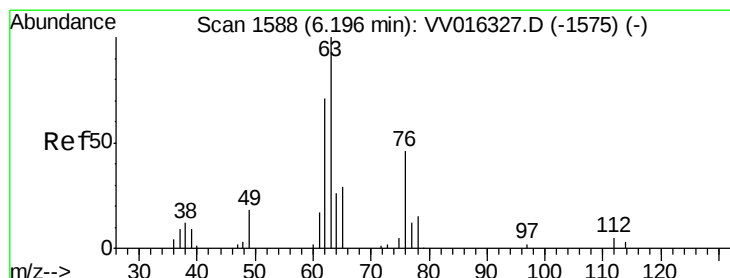
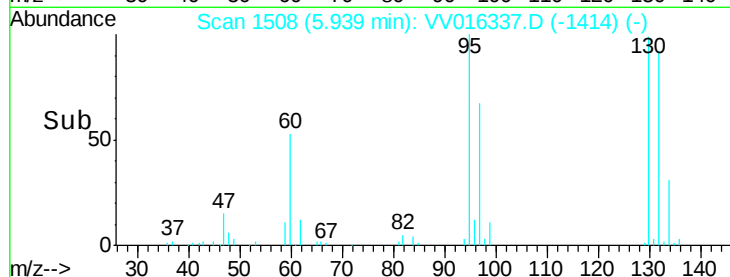
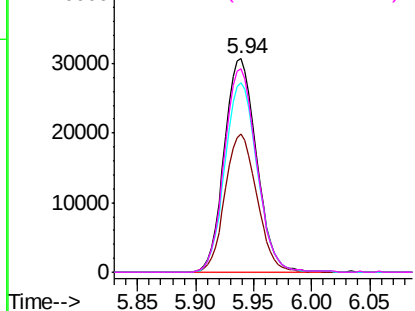
#34
 Trichloroethene
 Concen: 13.611 ug/L
 RT: 5.94 min Scan# 1508
 Delta R.T. 0.00 min
 Lab File: VV016337.D
 Acq: 30 May 2020 02:19

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 95 Resp: 59110
 Ion Ratio Lower Upper
 95 100
 97 64.6 43.6 81.0
 132 88.9 63.9 118.7
 130 95.3 65.2 121.0

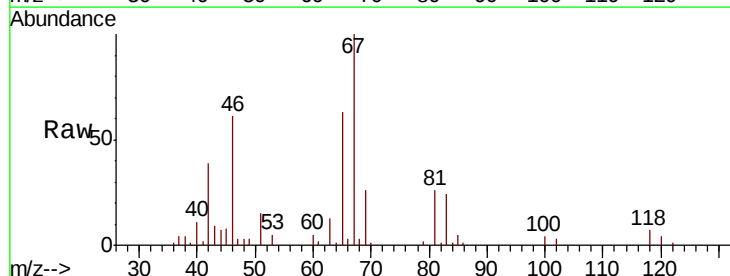


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

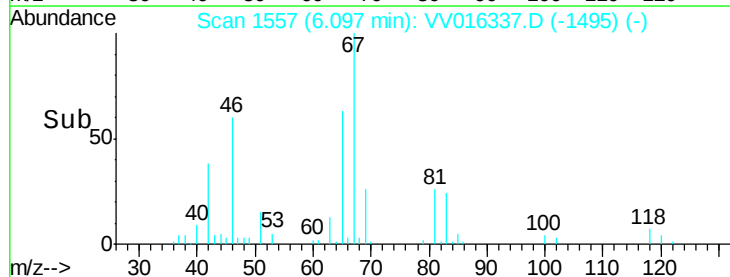
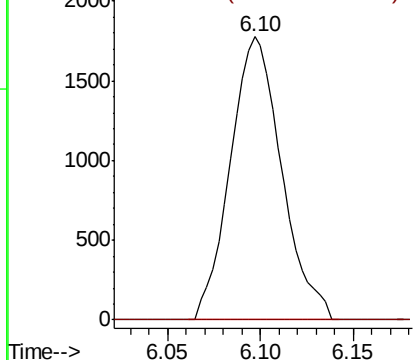


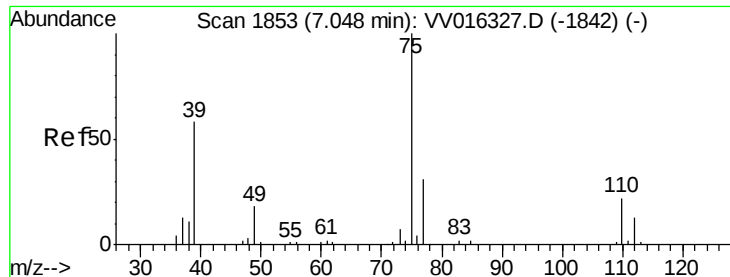
#37
 1,2-Dichloropropane
 Concen: 0.838 ug/L
 RT: 6.10 min Scan# 1557
 Delta R.T. -0.10 min
 Lab File: VV016337.D
 Acq: 30 May 2020 02:19

Tgt Ion: 63 Resp: 3427
 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): VV0

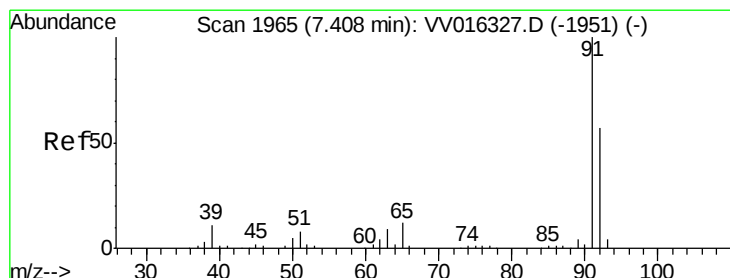
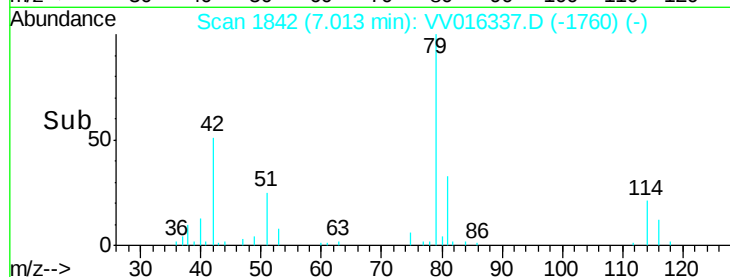
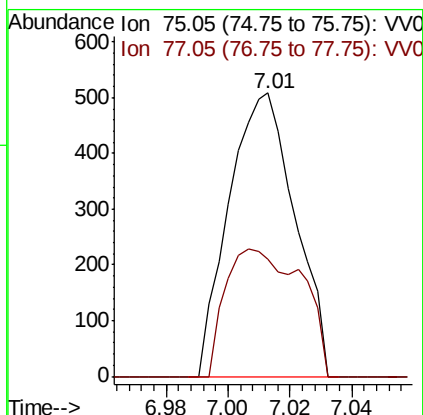
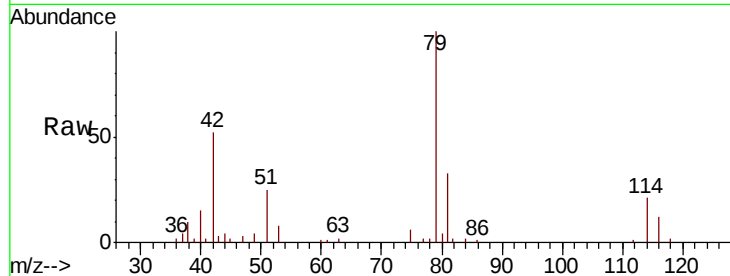




#39
 cis-1,3-Dichloropropene
 Concen: 0.130 ug/L
 RT: 7.01 min Scan# 1842
 Delta R.T. -0.04 min
 Lab File: VV016337.D
 Acq: 30 May 2020 02:19

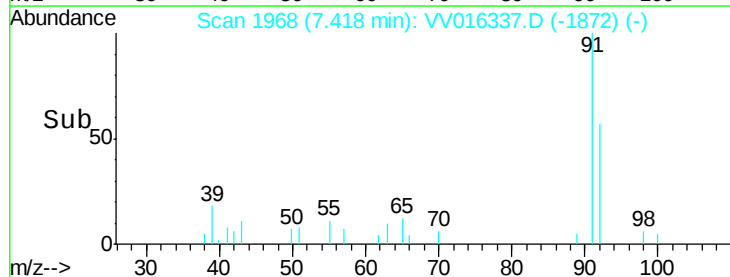
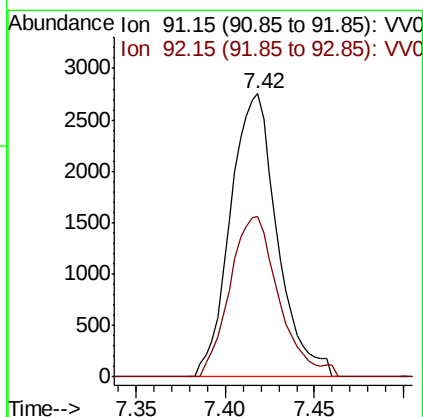
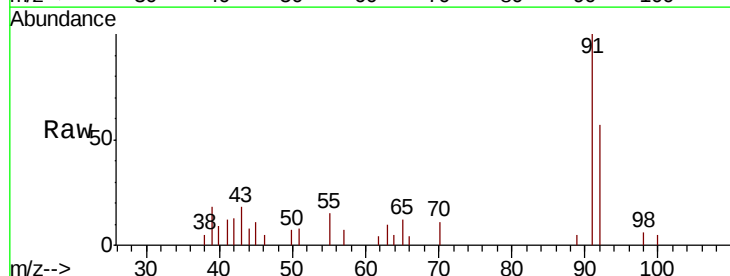
Instrument :
 MSVOA_V
 ClientSampleId :

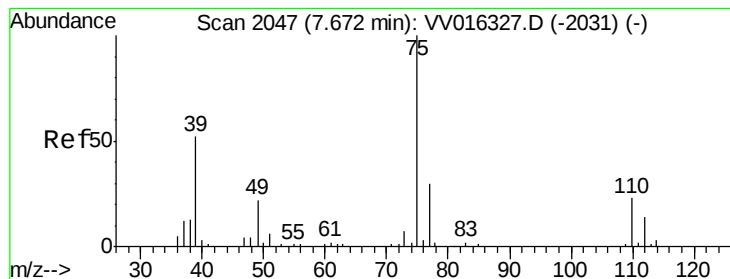
Tot Ion: 75 Resp: 753
 Ion Ratio Lower Upper
 75 100
 77 41.5 21.7 40.3#



#42
 Toluene
 Concen: 0.277 ug/L
 RT: 7.42 min Scan# 1968
 Delta R.T. 0.01 min
 Lab File: VV016337.D
 Acq: 30 May 2020 02:19

Tgt Ion: 91 Resp: 5037
 Ion Ratio Lower Upper
 91 100
 92 56.7 40.9 76.0





#46

trans-1,3-Dichloropropene

Concen: 0.145 ug/L

RT: 7.65 min Scan# 2040

Delta R.T. -0.02 min

Lab File: VV016337.D

Acq: 30 May 2020 02:19

Instrument :

MSVOA_V

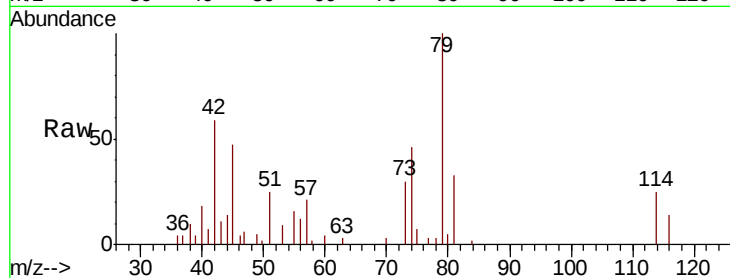
ClientSampleId :

Tot Ion: 75 Resp: 696

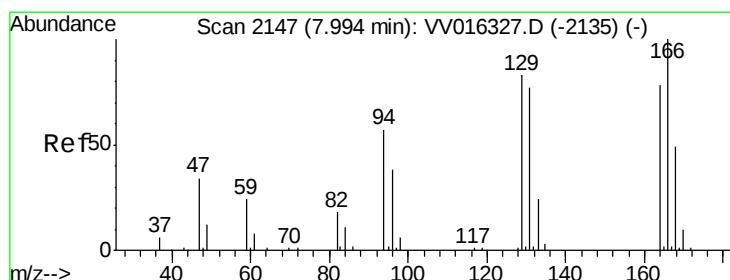
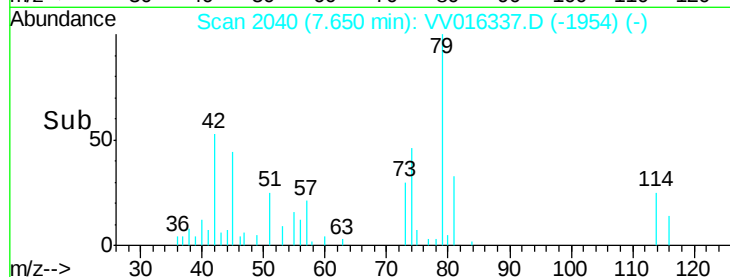
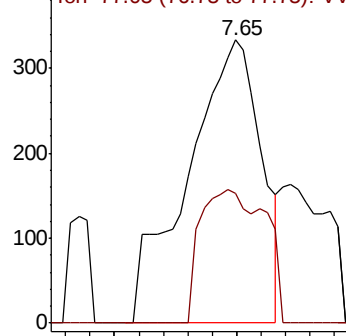
Ion Ratio Lower Upper

75 100

77 45.9 21.7 40.3#



Abundance Ion 75.05 (74.75 to 75.75): VV016337.D (-1954) (-)



#49

Tetrachloroethene

Concen: 0.395 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. 0.00 min

Lab File: VV016337.D

Acq: 30 May 2020 02:19

Tgt Ion: 164 Resp: 1233

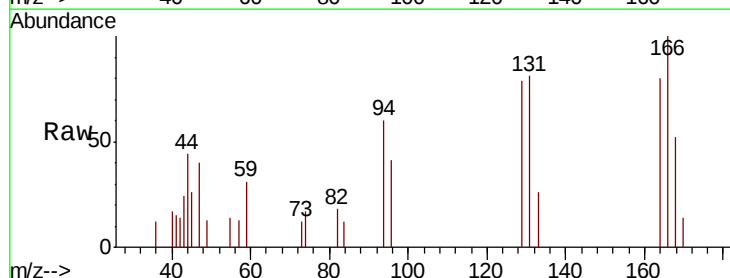
Ion Ratio Lower Upper

164 100

129 98.7 70.7 131.3

131 101.0 66.6 123.8

166 124.6 86.9 161.5

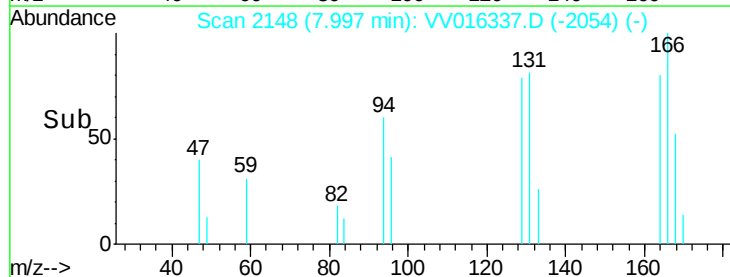
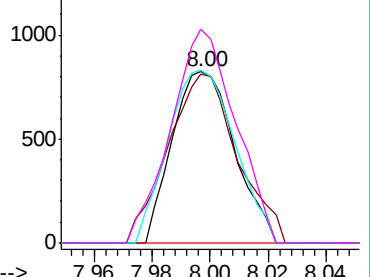


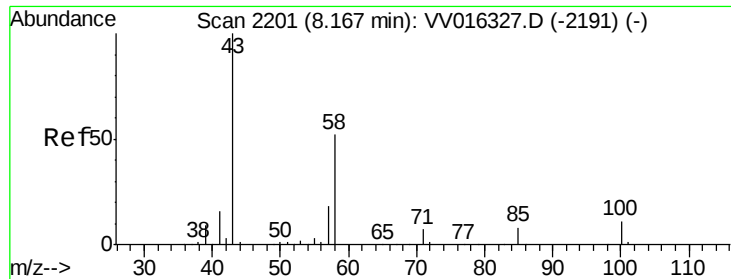
Abundance Ion 163.90 (163.60 to 164.60): VV016337.D (-2054) (-)

Ion 128.95 (128.65 to 129.65): VV016337.D (-2054) (-)

Ion 130.95 (130.65 to 131.65): VV016337.D (-2054) (-)

Ion 165.90 (165.60 to 166.60): VV016337.D (-2054) (-)

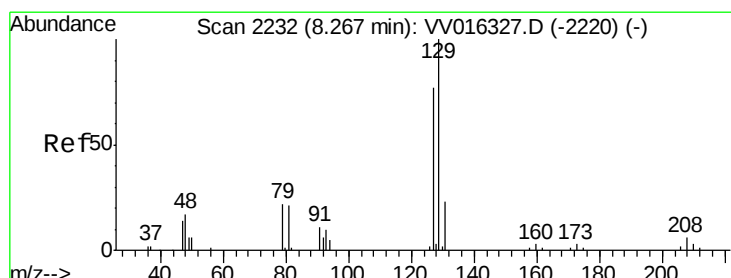
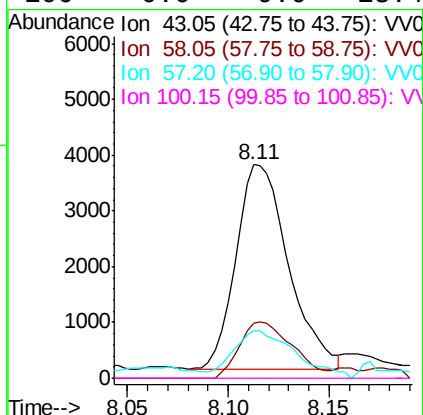
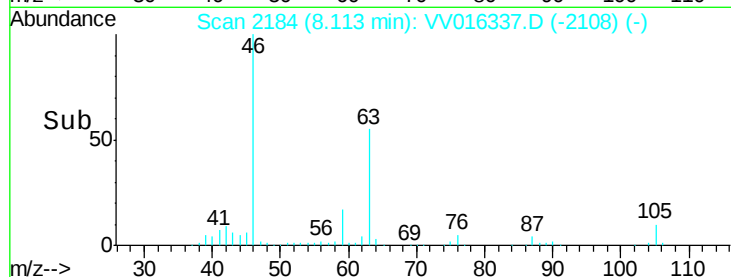
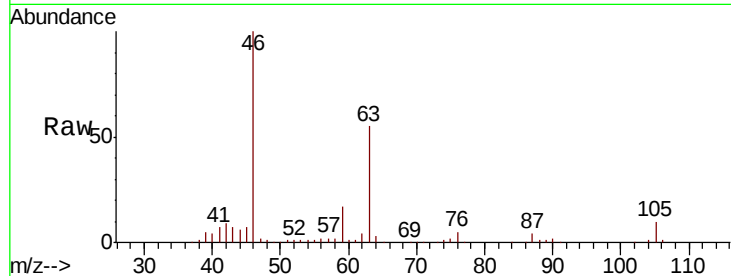




#50
2-Hexanone
Concen: 3.758 ug/L
RT: 8.11 min Scan# 2184
Delta R.T. -0.05 min
Lab File: VV016337.D
Acq: 30 May 2020 02:19

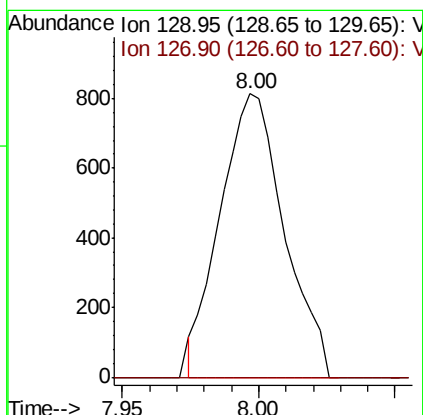
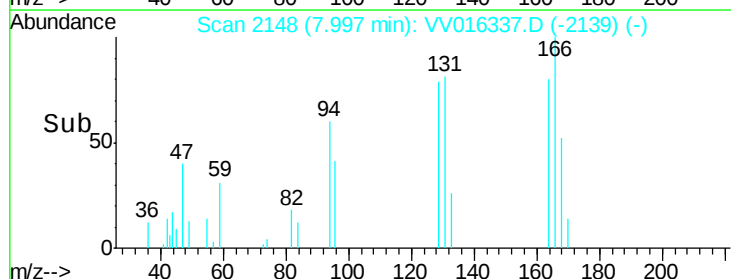
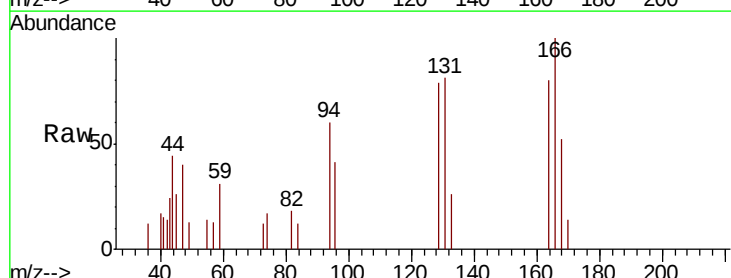
Instrument :
MSVOA_V
ClientSampleId :

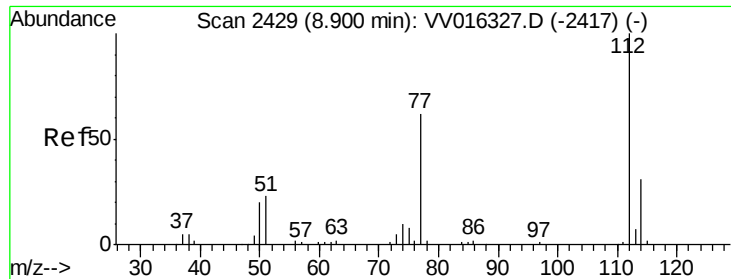
Tot Ion: 43 Resp: 6667
Ion Ratio Lower Upper
43 100
58 27.7 41.4 62.0#
57 28.0 15.0 22.4#
100 0.0 9.0 13.4#



#51
Dibromochloromethane
Concen: 0.464 ug/L
RT: 8.00 min Scan# 2148
Delta R.T. -0.27 min
Lab File: VV016337.D
Acq: 30 May 2020 02:19

Tgt Ion: 129 Resp: 1323
Ion Ratio Lower Upper
129 100
127 0.0 55.2 102.4#

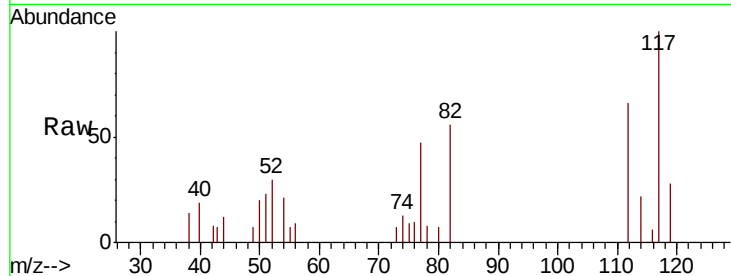




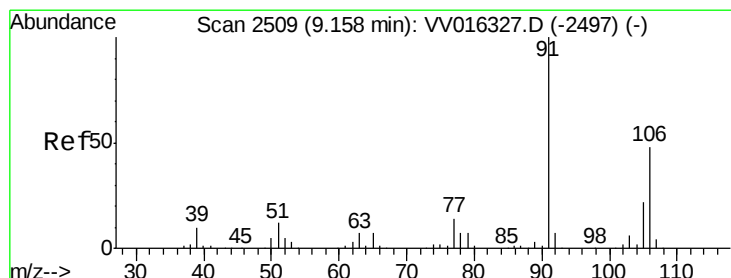
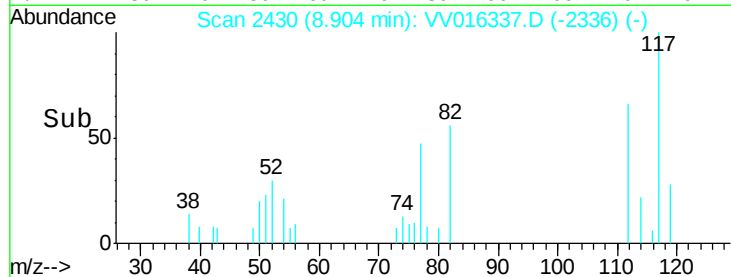
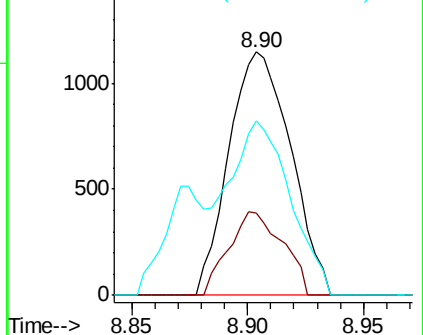
#53
Chlorobenzene
Concen: 0.189 ug/L
RT: 8.90 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VV016337.D
Acq: 30 May 2020 02:19

Instrument :
MSVOA_V
ClientSampled :

Tot Ion:112 Resp: 2128
Ion Ratio Lower Upper
112 100
114 33.9 22.3 41.3
77 71.8 50.7 76.1

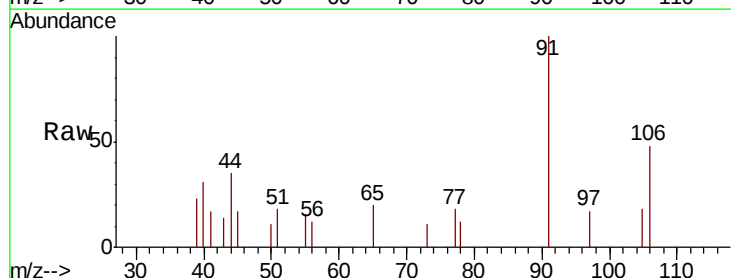


Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V

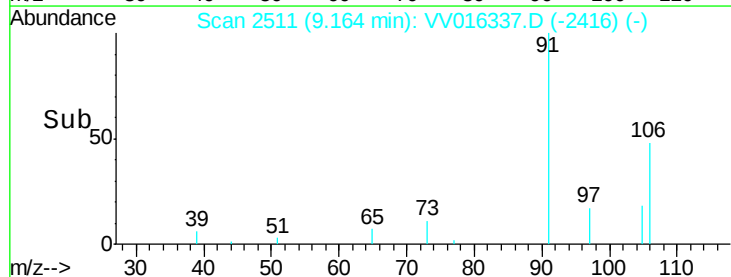
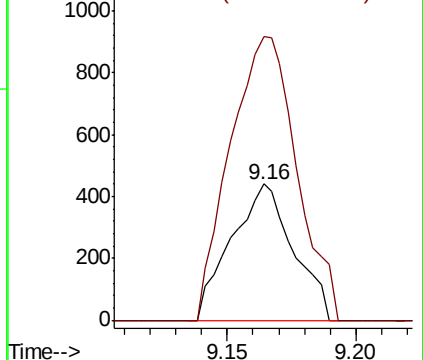


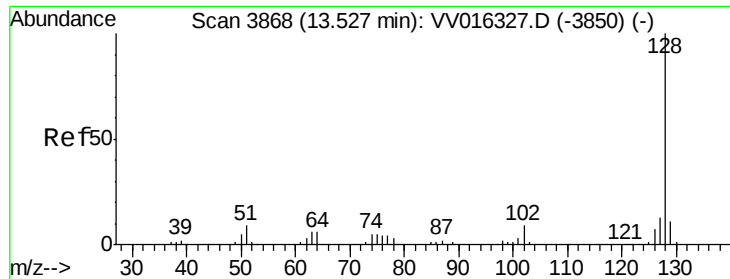
#55
m,p-xylene
Concen: 0.097 ug/L
RT: 9.16 min Scan# 2511
Delta R.T. 0.01 min
Lab File: VV016337.D
Acq: 30 May 2020 02:19

Tgt Ion:106 Resp: 734
Ion Ratio Lower Upper
106 100
91 208.2 148.1 275.0



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): V





#70

Naphthalene

Concen: 0.851 ug/L

RT: 13.53 min Scan# 3869

Delta R.T. 0.00 min

Lab File: VV016337.D

Acq: 30 May 2020 02:19

Instrument :

MSVOA_V

ClientSampleId :

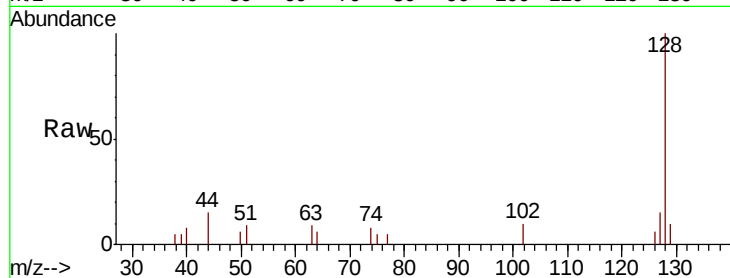
Tot Ion:128 Resp: 4258

Ion Ratio Lower Upper

128 100

129 9.5 8.6 13.0

127 12.0 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

