

Data File : VV010571.D
Acq On : 30 Apr 2019 01:41
Operator : SY/MD
Sample : K2590-18
Misc : 25mL/MSVOA_V/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_V
ClientSampleId :
C0XC5

Quant Time: Apr 30 06:52:03 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR042719WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Apr 30 06:45:30 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	227875	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	221602	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	103653	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	48172	4.35	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	87.00%
7) Chloroethane-d5	1.57	69	31722	5.35	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	107.00%
11) 1,1-Dichloroethene-d2	2.13	63	68036	3.26	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.20%
20) 2-Butanone-d5	3.94	46	122523	42.86	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	85.72%
24) Chloroform-d	4.40	84	119479	4.02	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	80.40%
26) 1,2-Dichloroethane-d4	5.08	65	67789	4.95	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.00%
32) Benzene-d6	5.10	84	267059	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.60%
36) 1,2-Dichloropropane-d6	6.12	67	76132	4.88	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	97.60%
41) Toluene-d8	7.36	98	253390	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	97.00%
43) trans-1,3-Dichloropropene-	7.67	79	27043	4.54	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	90.80%
46) 2-Hexanone-d5	8.13	63	116112	46.16	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.32%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	56823	4.59	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	91.80%
64) 1,2-Dichlorobenzene-d4	11.67	152	112471	5.63	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	112.60%

Target Compounds

					Qvalue
3) Chloromethane	1.25	50	2741	0.226 ug/L	98
5) Vinyl chloride	1.33	62	12509	0.986 ug/L	90
8) Chloroethane	1.32	64	5350	1.047 ug/L	89
12) 1,1-Dichloroethene	2.14	96	2533	0.230 ug/L #	1
13) Acetone	2.19	43	20155	14.153 ug/L	99
15) Methyl Acetate	2.32	43	4017	0.850 ug/L #	44
16) Methylene chloride	2.53	84	2516	0.151 ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	23284	1.481 ug/L	95
21) 2-Butanone	4.03	43	3869	1.314 ug/L #	45
22) cis-1,2-Dichloroethene	3.96	96	5336896	314.530 ug/L	97
25) Chloroform	4.43	83	23852	0.811 ug/L	99
27) 1,2-Dichloroethane	5.19	62	2703	0.161 ug/L #	74
33) Benzene	5.15	78	4762	0.083 ug/L	100
34) Trichloroethene	5.96	95	387445	23.218 ug/L	98
35) Methylcyclohexane	6.12	83	20627	0.952 ug/L #	20
37) 1,2-Dichloropropane	6.12	63	8766	0.663 ug/L #	88
39) cis-1,3-Dichloropropene	7.03	75	2567	0.135 ug/L #	78

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Response via : Initial Calibration

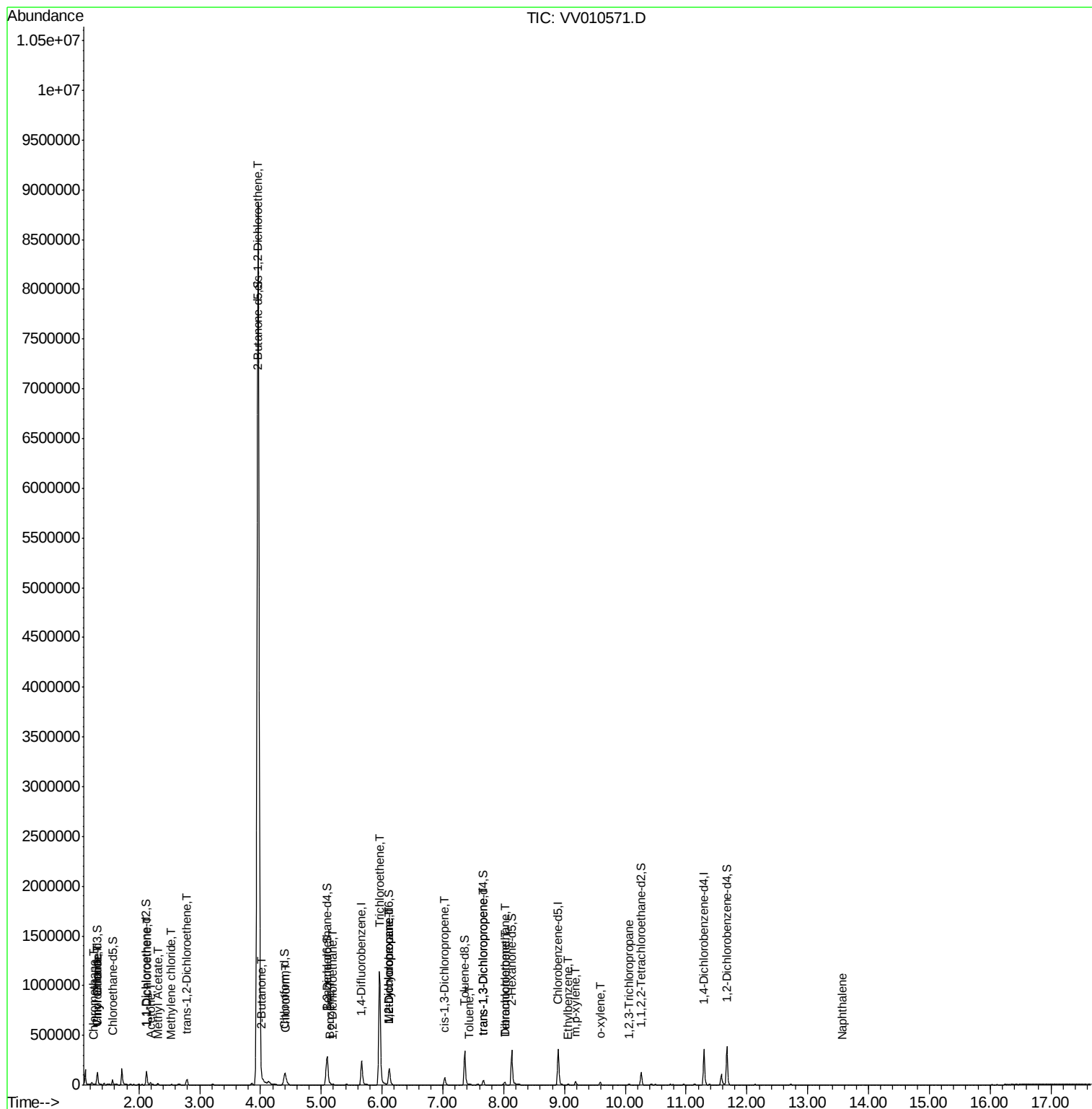
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.43	91	4997	0.079	ug/L	82
44) trans-1,3-Dichloropropene	7.66	75	1469	0.098	ug/L	91
47) Tetrachloroethene	8.01	164	7426	0.476	ug/L	94
49) Dibromochloromethane	8.02	129	6189	0.449	ug/L #	12
52) Ethylbenzene	9.05	91	6448	0.097	ug/L	97
53) m,p-xylene	9.18	106	9989	0.384	ug/L	94
54) o-xylene	9.59	106	7912	0.311	ug/L	91
59) 1,2,3-Trichloropropane	10.06	75	2410	0.285	ug/L #	44
69) Naphthalene	13.55	128	2528	0.083	ug/L #	81

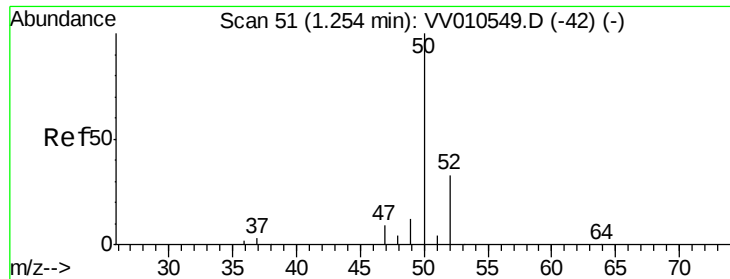
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#3

Chloromethane

Concen: 0.226 ug/L

RT: 1.25 min Scan# 51

Delta R.T. -0.00 min

Lab File: VV010571.D

Acq: 30 Apr 2019 01:41

Instrument :

MSVOA_V

ClientSampled :

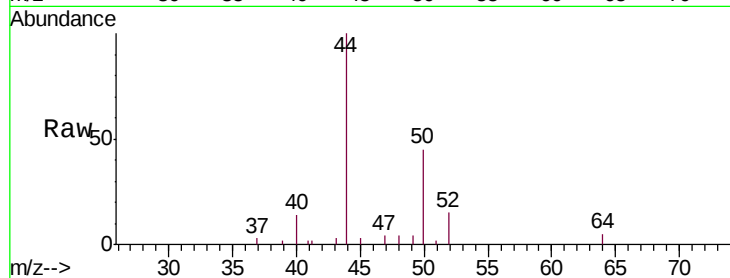
C0XC5

Tgt Ion: 50 Resp: 2741

Ion Ratio Lower Upper

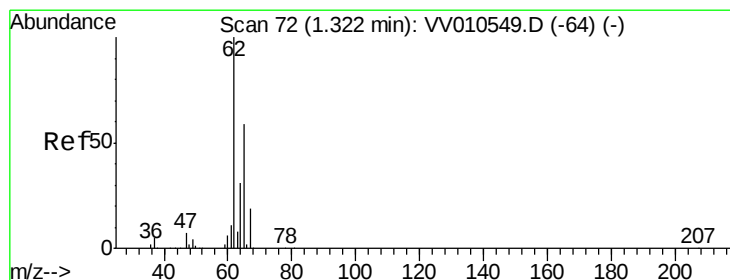
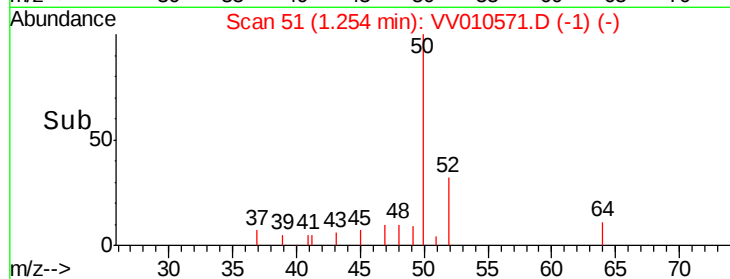
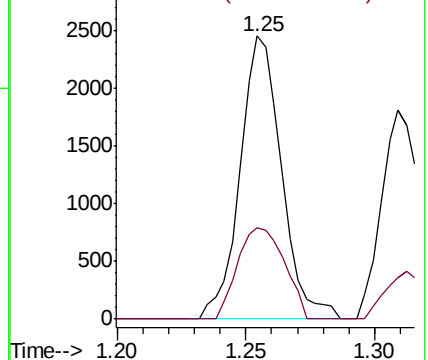
50 100

52 32.3 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0



#5

Vinyl chloride

Concen: 0.986 ug/L

RT: 1.33 min Scan# 73

Delta R.T. 0.00 min

Lab File: VV010571.D

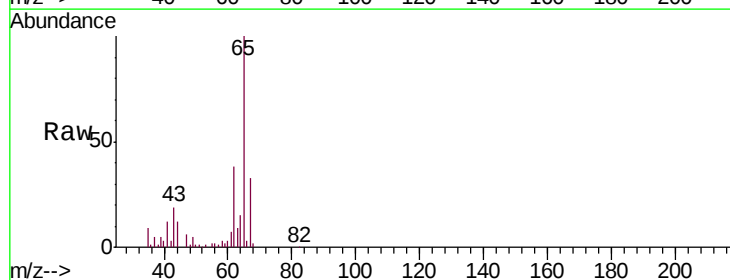
Acq: 30 Apr 2019 01:41

Tgt Ion: 62 Resp: 12509

Ion Ratio Lower Upper

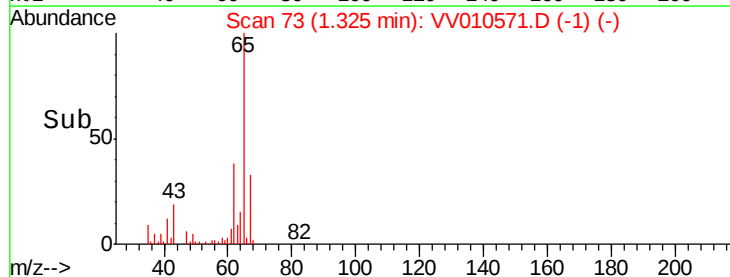
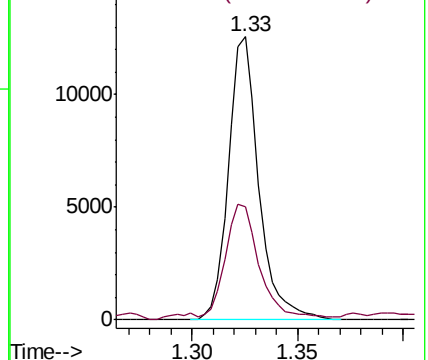
62 100

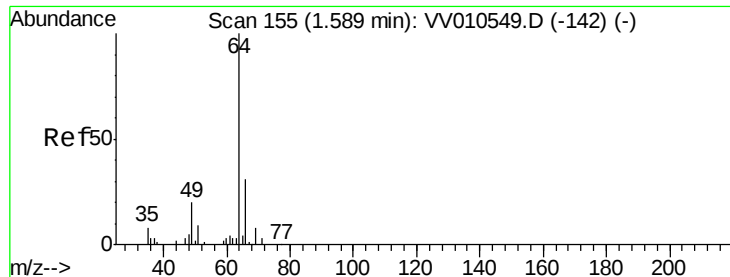
64 39.9 23.9 44.5



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.10 (63.80 to 64.80): VV0





#8

Chloroethane

Concen: 1.047 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.27 min

Lab File: VV010571.D

Acq: 30 Apr 2019 01:41

Instrument :

MSVOA_V

ClientSampleId :

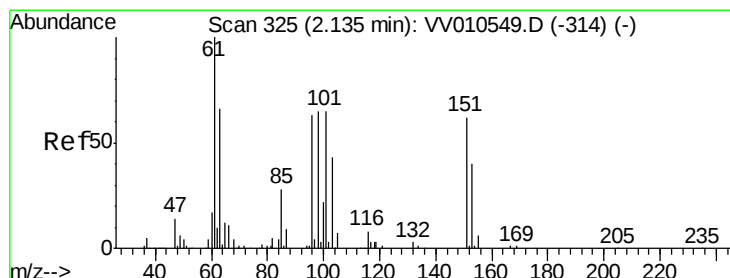
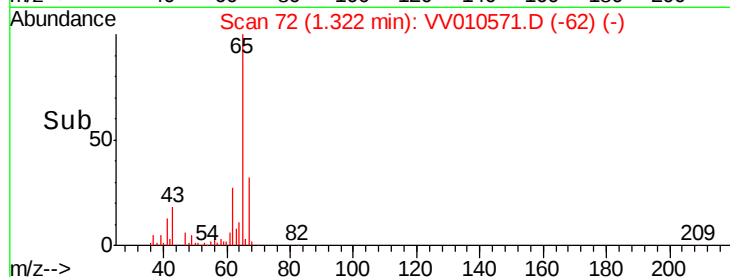
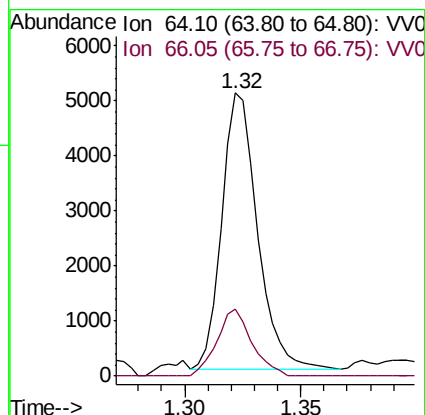
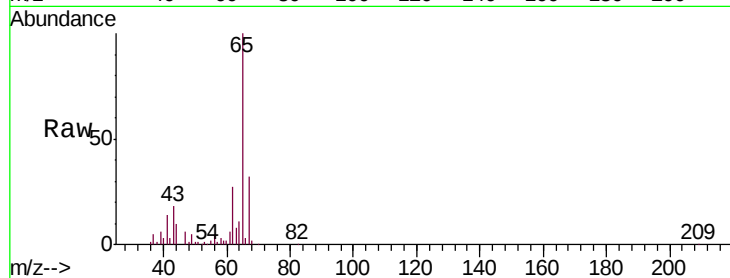
C0XC5

Tgt Ion: 64 Resp: 5350

Ion Ratio Lower Upper

64 100

66 23.6 20.7 38.5



#12

1,1-Dichloroethene

Concen: 0.230 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV010571.D

Acq: 30 Apr 2019 01:41

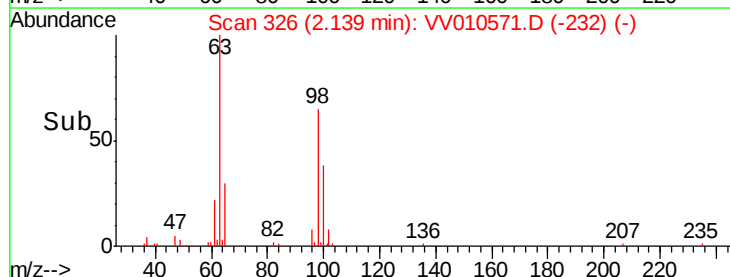
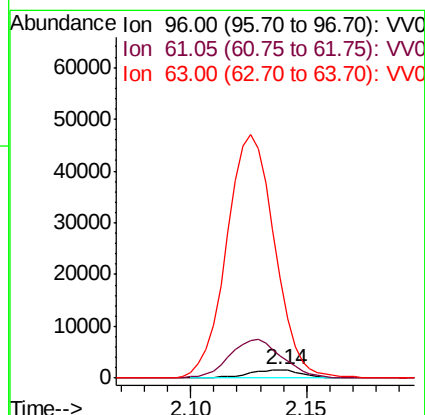
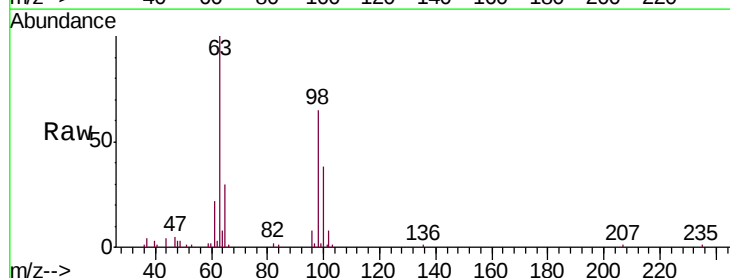
Tgt Ion: 96 Resp: 2533

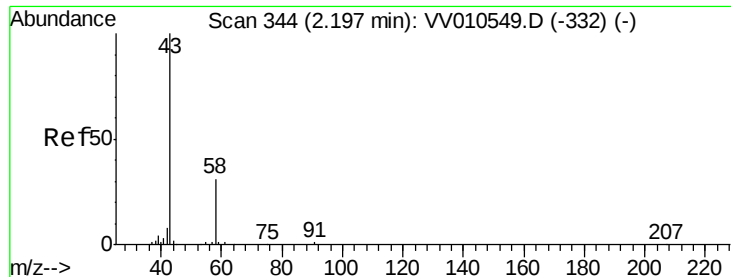
Ion Ratio Lower Upper

96 100

61 260.1 101.2 188.0#

63 1178.9 79.2 147.0#





#13

Acetone

Concen: 14.153 ug/L

RT: 2.19 min Scan# 342

Delta R.T. -0.01 min

Lab File: VV010571.D

Acq: 30 Apr 2019 01:41

Instrument :

MSVOA_V

ClientSampleId :

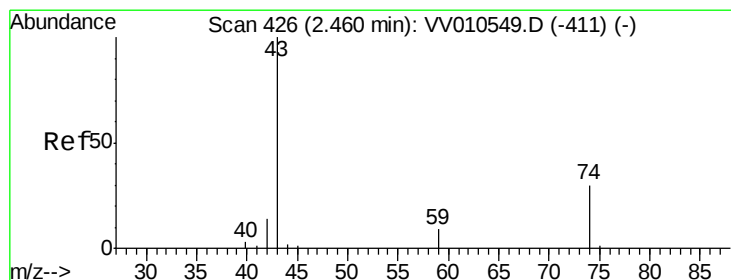
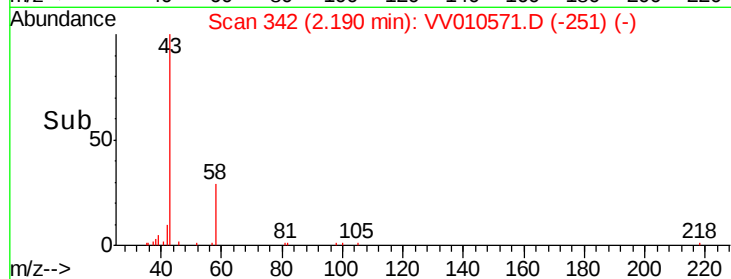
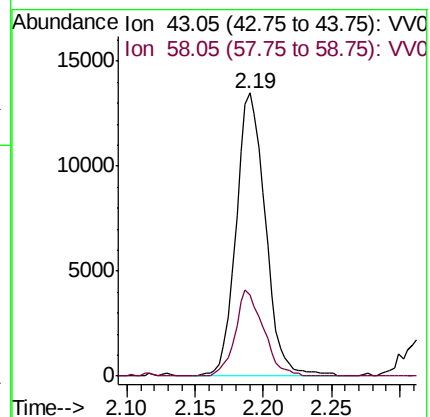
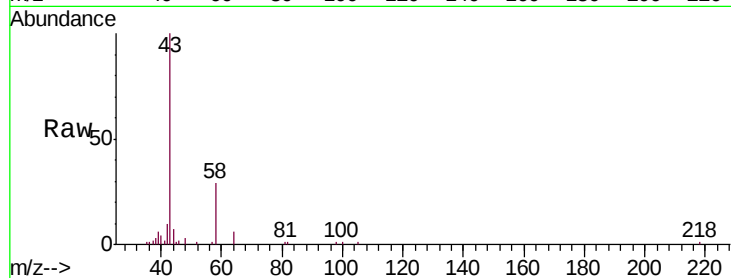
C0XC5

Tgt Ion: 43 Resp: 20155

Ion Ratio Lower Upper

43 100

58 29.4 0.0 57.4



#15

Methyl Acetate

Concen: 0.850 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.14 min

Lab File: VV010571.D

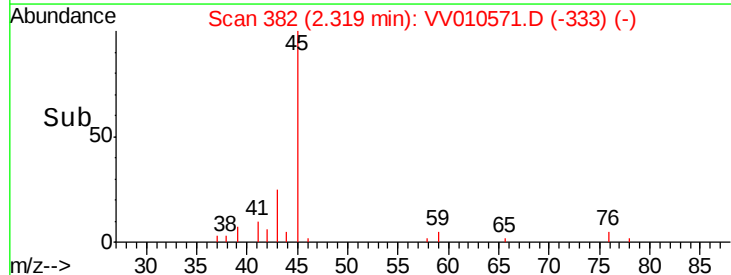
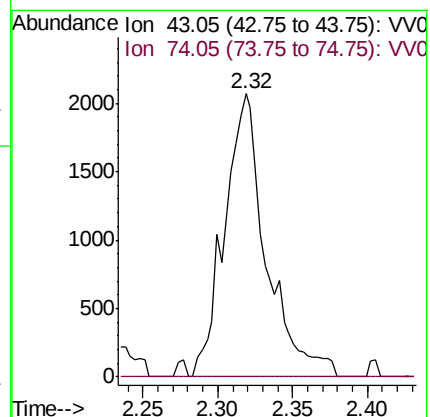
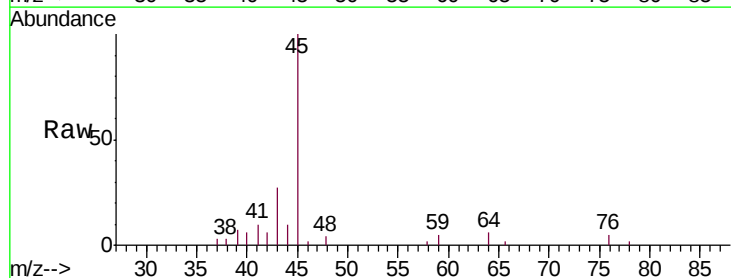
Acq: 30 Apr 2019 01:41

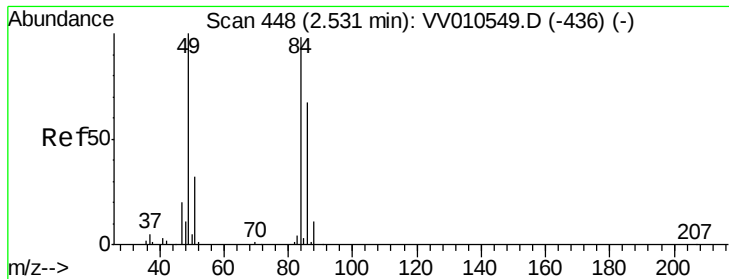
Tgt Ion: 43 Resp: 4017

Ion Ratio Lower Upper

43 100

74 0.0 24.2 36.2#

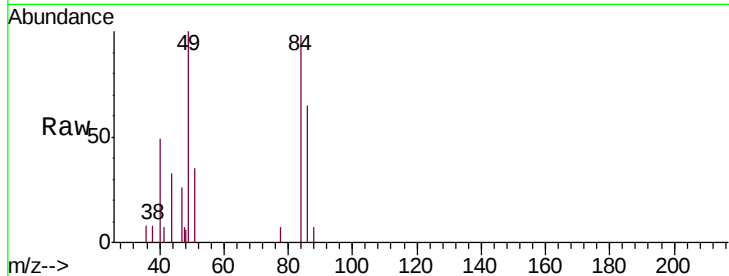




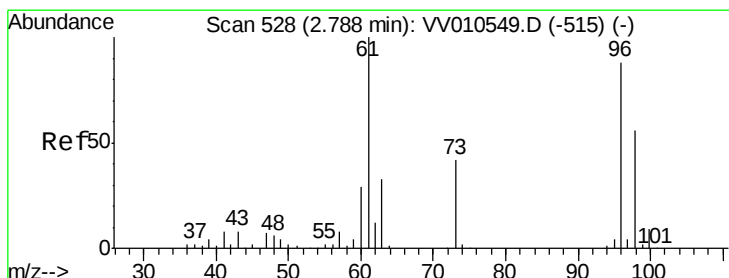
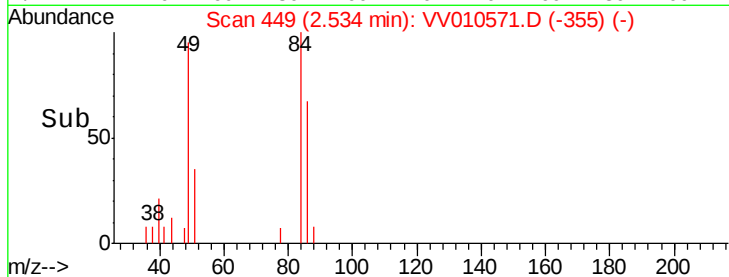
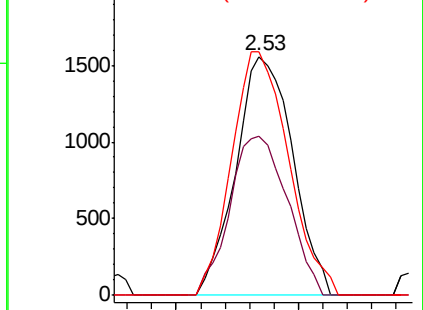
#16
Methylene chloride
Concen: 0.151 ug/L
RT: 2.53 min Scan# 449
Delta R.T. 0.00 min
Lab File: VV010571.D
Acq: 30 Apr 2019 01:41

Instrument :
MSVOA_V
ClientSampleId :
C0XC5

Tgt Ion: 84 Resp: 2516
Ion Ratio Lower Upper
84 100
86 66.7 43.7 81.1
49 101.9 71.4 132.6

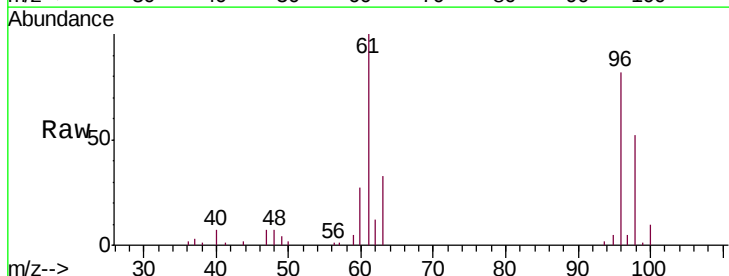


Abundance Ion 84.05 (83.75 to 84.75): VV0
Ion 86.00 (85.70 to 86.70): VV0
Ion 49.10 (48.80 to 49.80): VV0

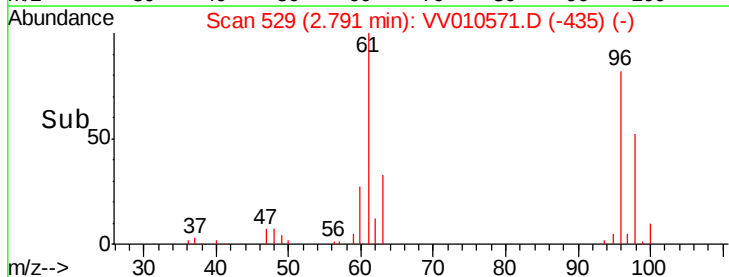
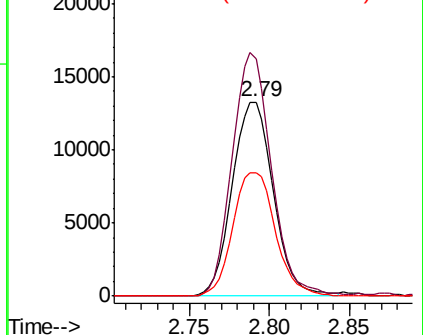


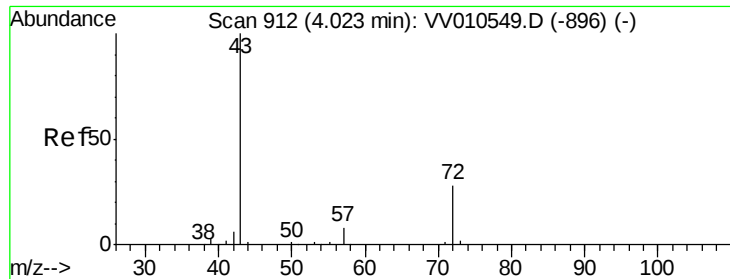
#18
trans-1,2-Dichloroethene
Concen: 1.481 ug/L
RT: 2.79 min Scan# 529
Delta R.T. 0.00 min
Lab File: VV010571.D
Acq: 30 Apr 2019 01:41

Tgt Ion: 96 Resp: 23284
Ion Ratio Lower Upper
96 100
61 121.8 80.2 148.9
98 63.6 43.3 80.3



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: 1.314 ug/L

RT: 4.03 min Scan# 913

Delta R.T. 0.00 min

Lab File: VV010571.D

Acq: 30 Apr 2019 01:41

Instrument :

MSVOA_V

ClientSampled :

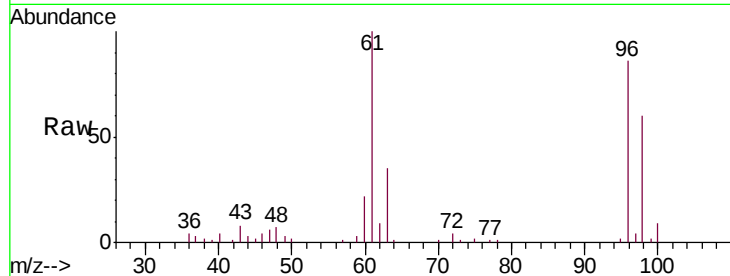
C0XC5

Tgt Ion: 43 Resp: 3869

Ion Ratio Lower Upper

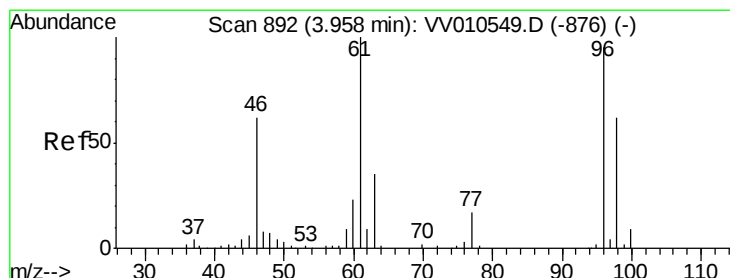
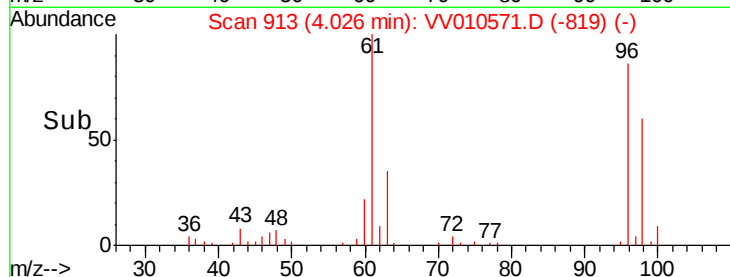
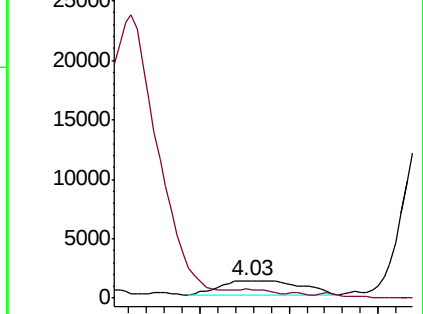
43 100

72 0.0 14.6 43.8#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 72.10 (71.80 to 72.80): VV0



#22

cis-1,2-Dichloroethene

Concen: 314.530 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.00 min

Lab File: VV010571.D

Acq: 30 Apr 2019 01:41

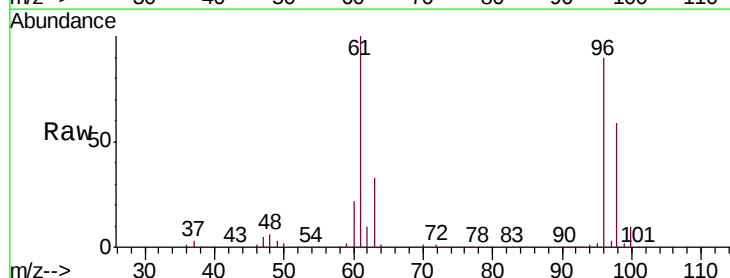
Tgt Ion: 96 Resp: 5336896

Ion Ratio Lower Upper

96 100

61 110.8 79.9 148.3

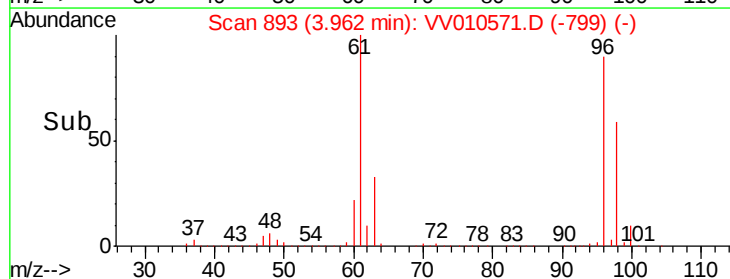
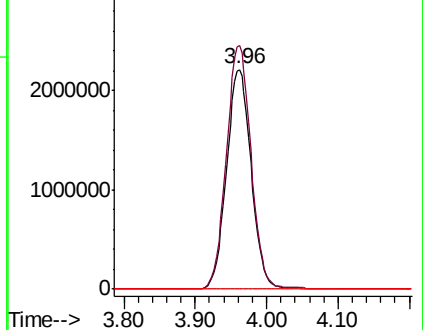
68 0.0 0.0 0.0

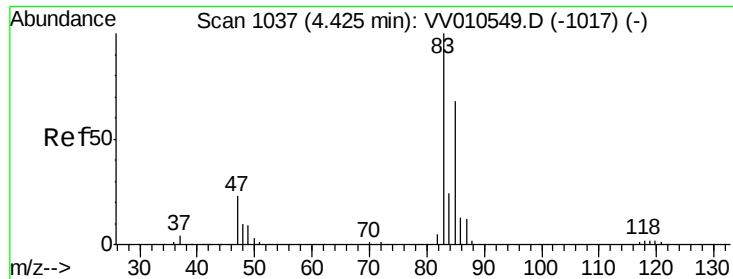


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 68.15 (67.85 to 68.85): VV0

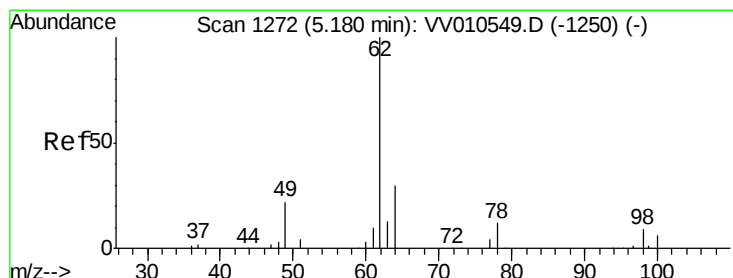
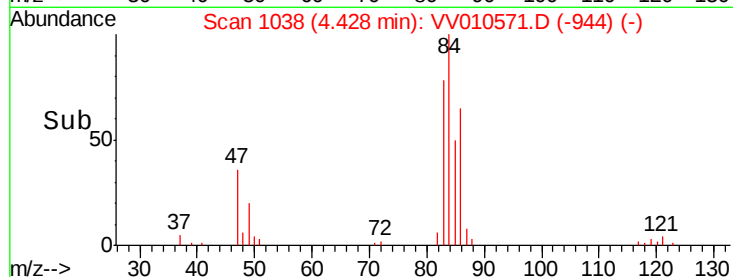
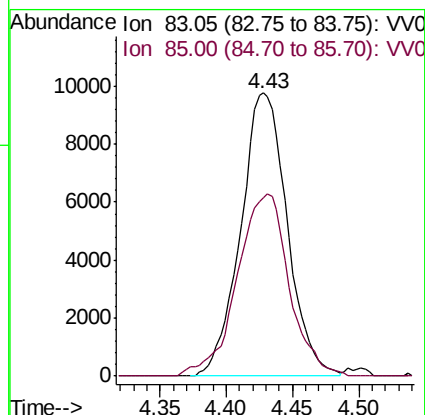
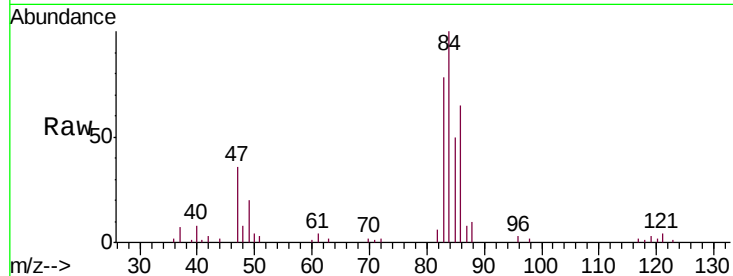




#25
Chloroform
Concen: 0.811 ug/L
RT: 4.43 min Scan# 1038
Delta R.T. 0.00 min
Lab File: VV010571.D
Acq: 30 Apr 2019 01:41

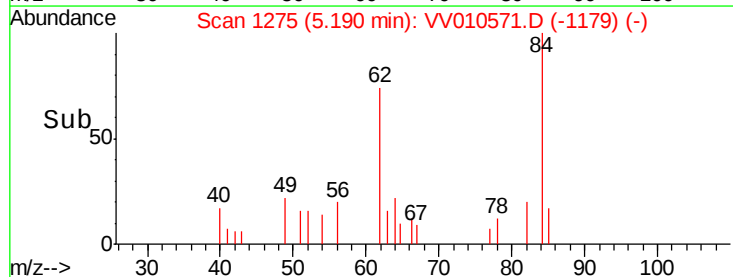
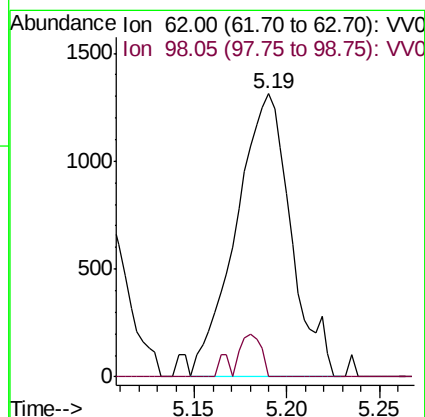
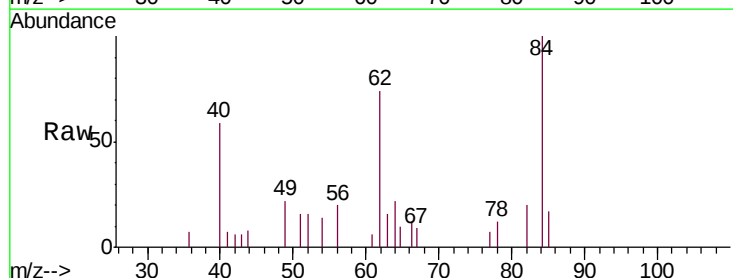
Instrument :
MSVOA_V
ClientSampled :
C0XC5

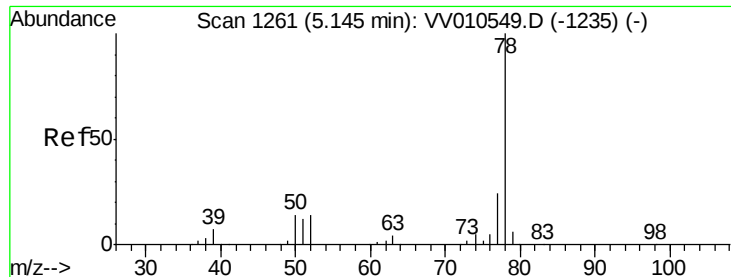
Tgt Ion: 83 Resp: 23852
Ion Ratio Lower Upper
83 100
85 63.2 43.6 81.0



#27
1,2-Dichloroethane
Concen: 0.161 ug/L
RT: 5.19 min Scan# 1275
Delta R.T. 0.01 min
Lab File: VV010571.D
Acq: 30 Apr 2019 01:41

Tgt Ion: 62 Resp: 2703
Ion Ratio Lower Upper
62 100
98 0.0 7.6 11.4#

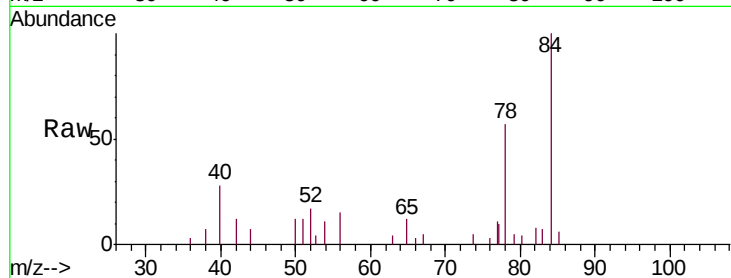




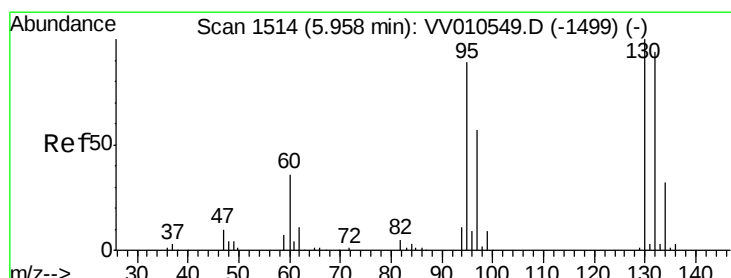
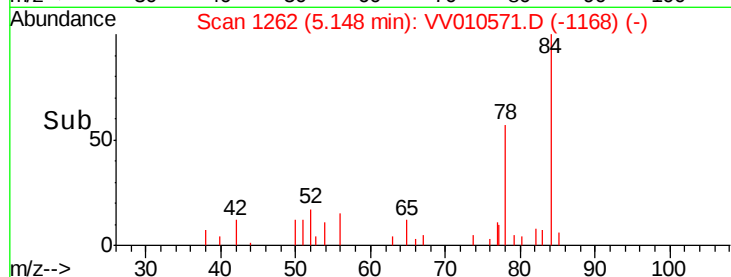
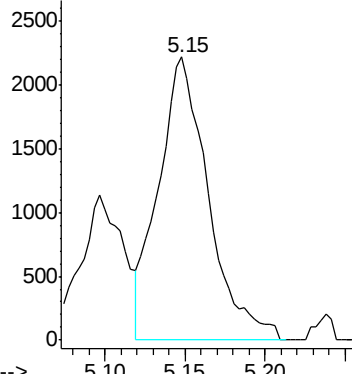
#33
Benzene
Concen: 0.083 ug/L
RT: 5.15 min Scan# 1262
Delta R.T. 0.00 min
Lab File: VV010571.D
Acq: 30 Apr 2019 01:41

Instrument :
MSVOA_V
ClientSampleId :
C0XC5

Tgt Ion: 78 Resp: 4762

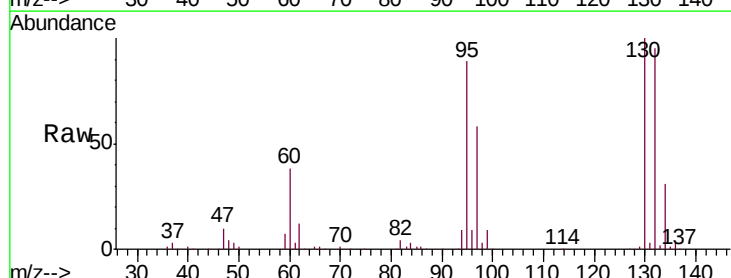


Abundance Ion 78.10 (77.80 to 78.80): VV0



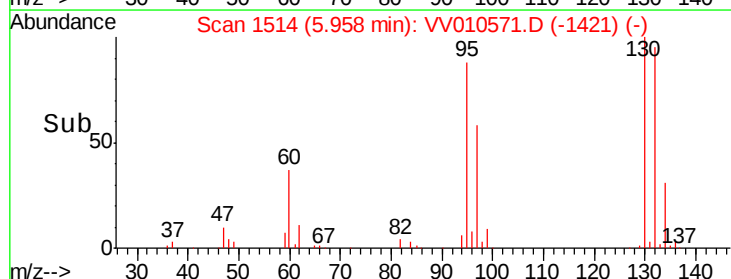
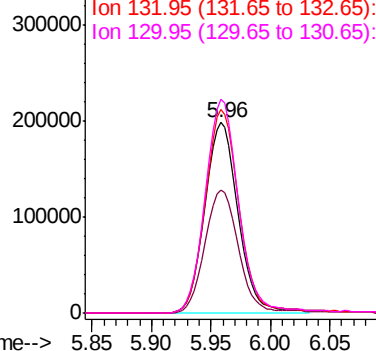
#34
Trichloroethene
Concen: 23.218 ug/L
RT: 5.96 min Scan# 1514
Delta R.T. -0.00 min
Lab File: VV010571.D
Acq: 30 Apr 2019 01:41

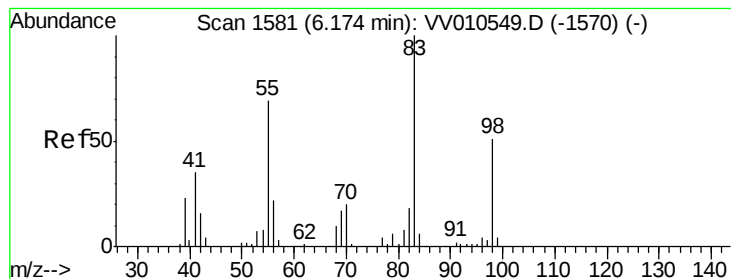
Tgt Ion: 95 Resp: 387445
Ion Ratio Lower Upper
95 100
97 64.7 43.3 80.5
132 106.7 74.1 137.5
130 112.2 79.5 147.6



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

Methylcyclohexane

Concen: 0.952 ug/L

RT: 6.12 min Scan# 1563

Delta R.T. -0.06 min

Lab File: VV010571.D

Acq: 30 Apr 2019 01:41

Instrument :

MSVOA_V

ClientSampleId :

C0XC5

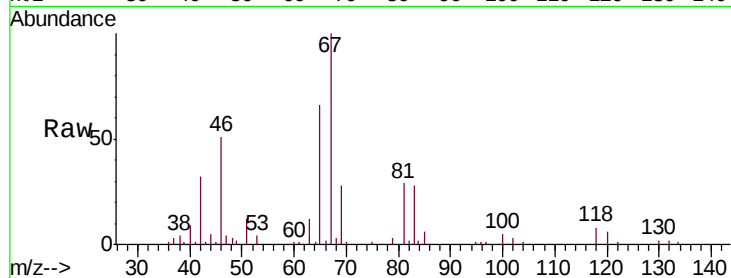
Tgt Ion: 83 Resp: 20627

Ion Ratio Lower Upper

83 100

55 0.0 58.0 87.0#

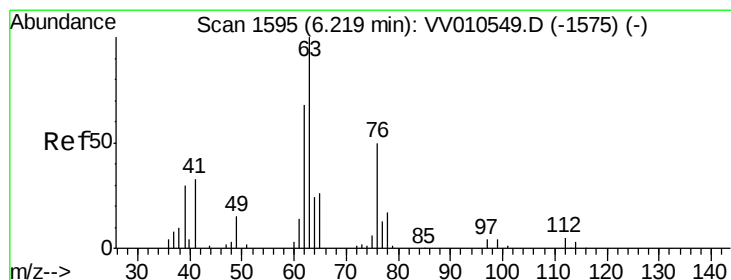
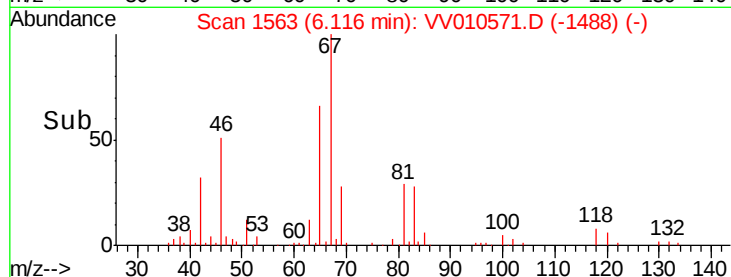
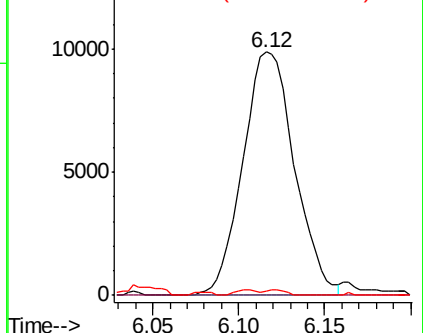
98 2.1 40.4 60.6#



Abundance Ion 83.15 (82.85 to 83.85): VV010549.D (-1570) (-)

Ion 55.10 (54.80 to 55.80): VV010549.D (-1570) (-)

Ion 98.15 (97.85 to 98.85): VV010549.D (-1570) (-)



#37

1,2-Dichloropropane

Concen: 0.663 ug/L

RT: 6.12 min Scan# 1563

Delta R.T. -0.10 min

Lab File: VV010571.D

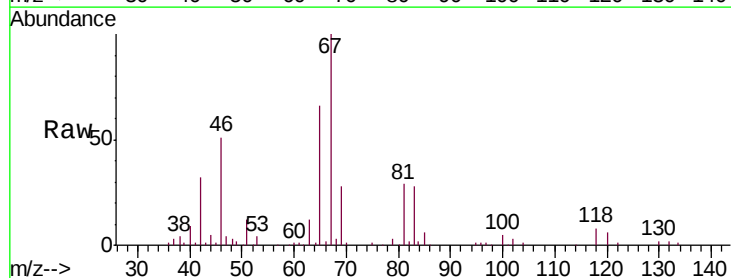
Acq: 30 Apr 2019 01:41

Tgt Ion: 63 Resp: 8766

Ion Ratio Lower Upper

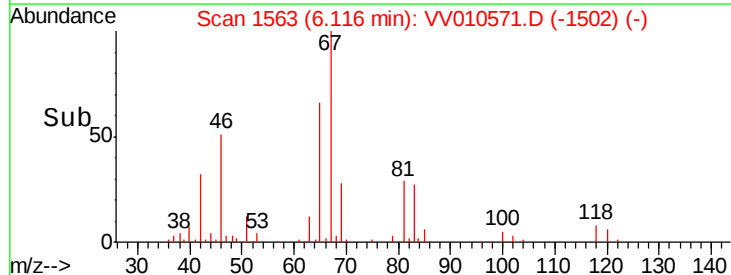
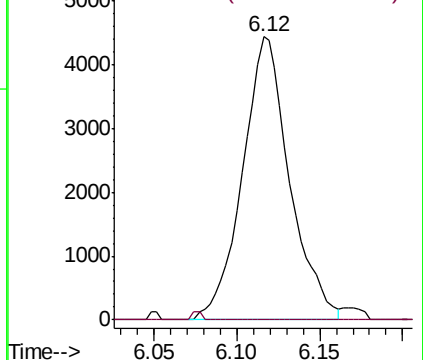
63 100

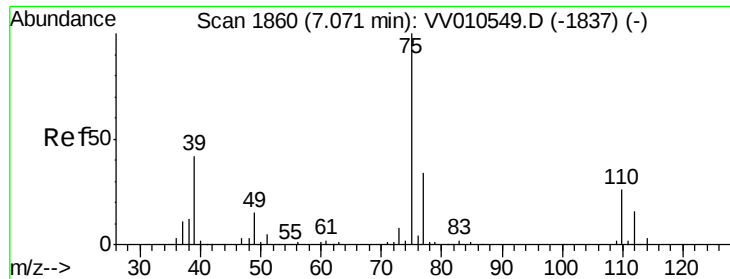
112 0.5 3.7 5.5#



Abundance Ion 63.10 (62.80 to 63.80): VV010549.D (-1575) (-)

Ion 112.10 (111.80 to 112.80): VV010549.D (-1575) (-)

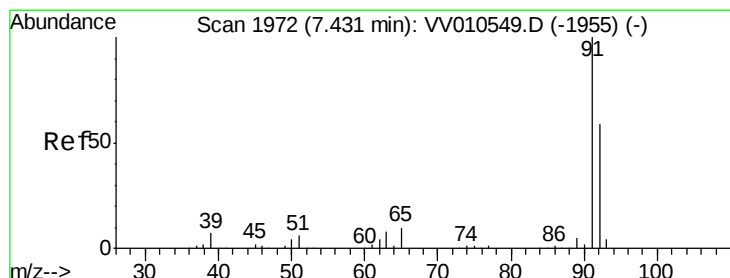
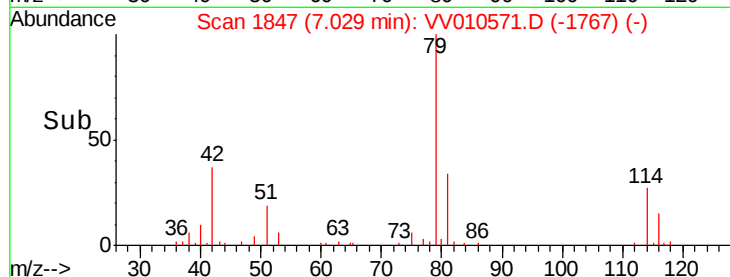
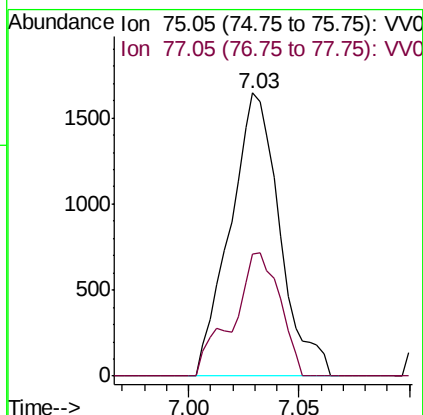
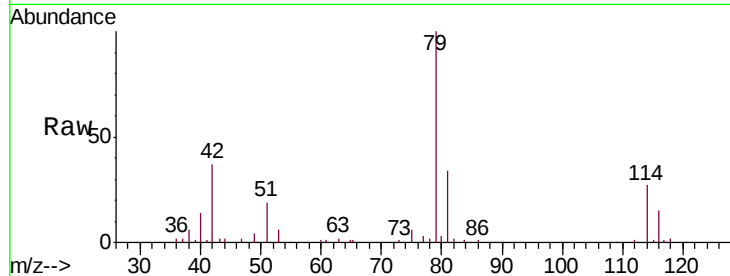




#39
 cis-1,3-Dichloropropene
 Concen: 0.135 ug/L
 RT: 7.03 min Scan# 1847
 Delta R.T. -0.04 min
 Lab File: VV010571.D
 Acq: 30 Apr 2019 01:41

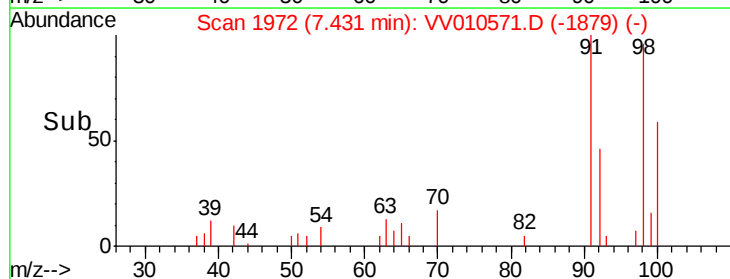
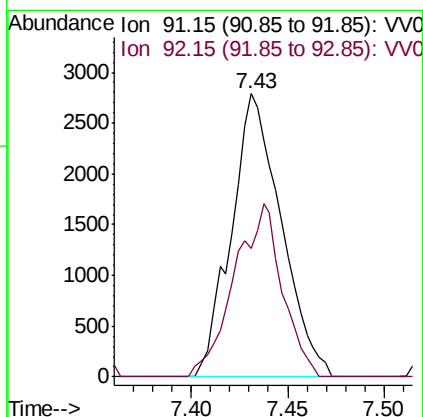
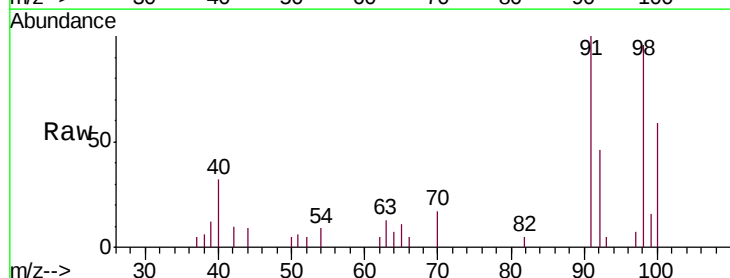
Instrument :
 MSVOA_V
 ClientSampled :
 C0XC5

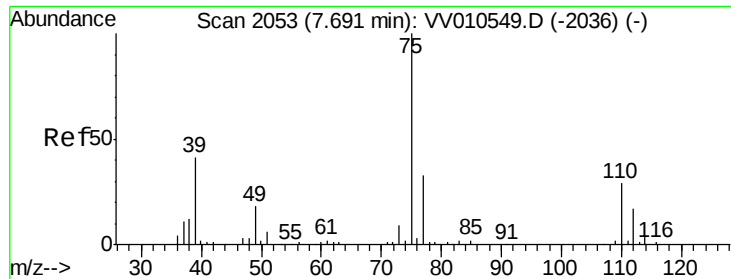
Tgt Ion: 75 Resp: 2567
 Ion Ratio Lower Upper
 75 100
 77 43.0 21.6 40.0#



#42
 Toluene
 Concen: 0.079 ug/L
 RT: 7.43 min Scan# 1972
 Delta R.T. -0.00 min
 Lab File: VV010571.D
 Acq: 30 Apr 2019 01:41

Tgt Ion: 91 Resp: 4997
 Ion Ratio Lower Upper
 91 100
 92 45.6 41.1 76.3





#44

trans-1,3-Dichloropropene

Concen: 0.098 ug/L

RT: 7.66 min Scan# 2044

Delta R.T. -0.03 min

Lab File: VV010571.D

Acq: 30 Apr 2019 01:41

Instrument :

MSVOA_V

ClientSampled :

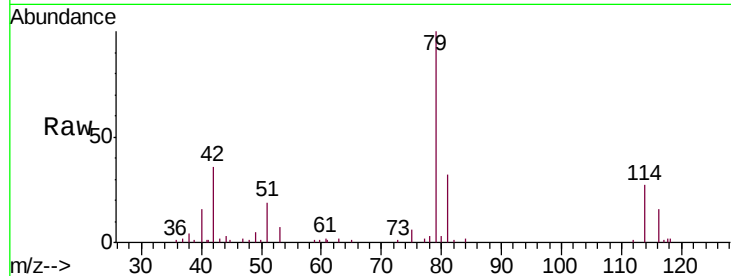
C0XC5

Tgt Ion: 75 Resp: 1469

Ion Ratio Lower Upper

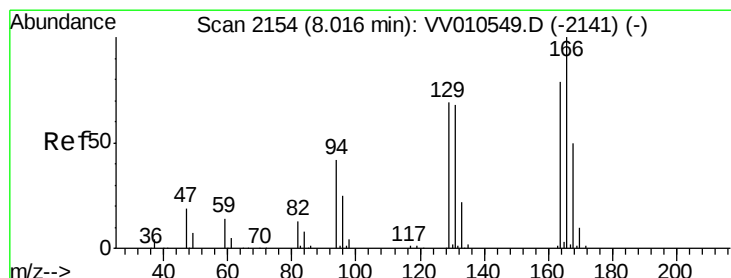
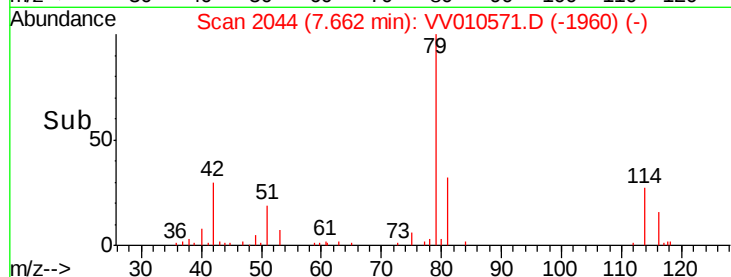
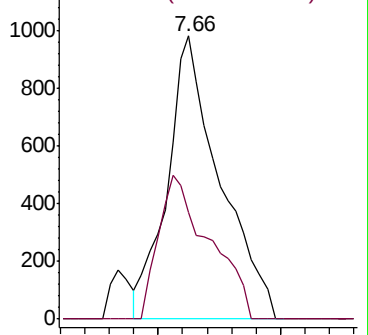
75 100

77 37.8 23.0 42.6



Abundance Ion 75.05 (74.75 to 75.75): VV0

Ion 77.05 (76.75 to 77.75): VV0



#47

Tetrachloroethene

Concen: 0.476 ug/L

RT: 8.01 min Scan# 2153

Delta R.T. -0.00 min

Lab File: VV010571.D

Acq: 30 Apr 2019 01:41

Tgt Ion: 164 Resp: 7426

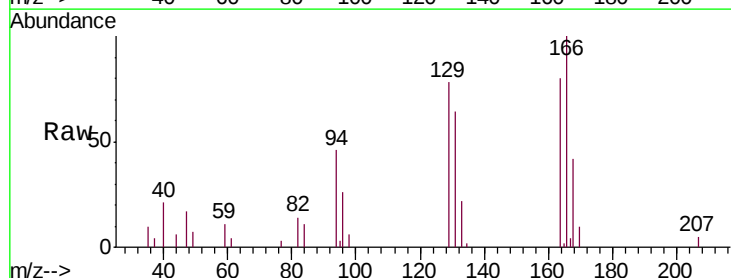
Ion Ratio Lower Upper

164 100

129 97.2 62.2 115.4

131 80.5 61.5 114.1

166 124.8 89.1 165.5

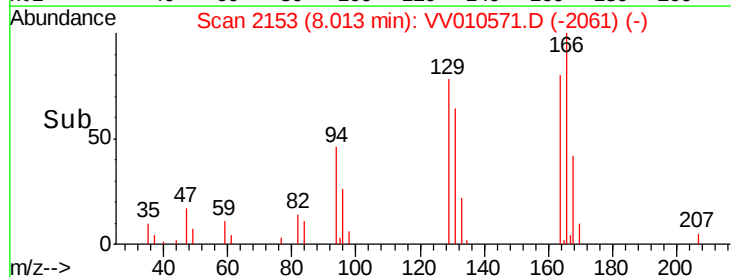
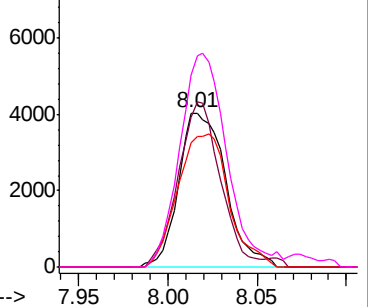


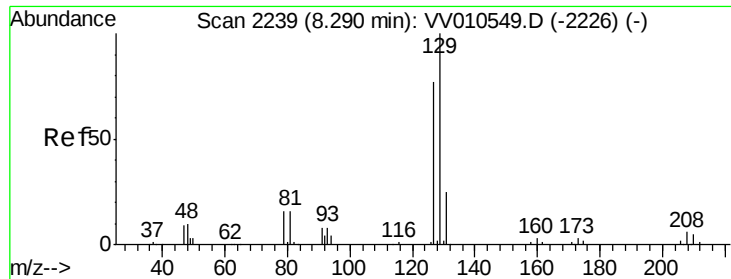
Abundance Ion 163.90 (163.60 to 164.60): V

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





#49

Dibromochloromethane

Concen: 0.449 ug/L

RT: 8.02 min Scan# 2154

Delta R.T. -0.27 min

Lab File: VV010571.D

Acq: 30 Apr 2019 01:41

Instrument :

MSVOA_V

ClientSampleId :

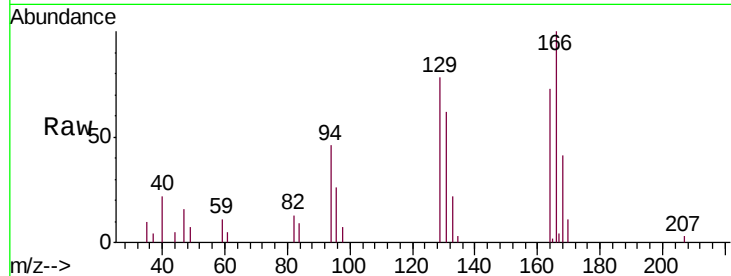
C0XC5

Tgt Ion: 129 Resp: 6189

Ion Ratio Lower Upper

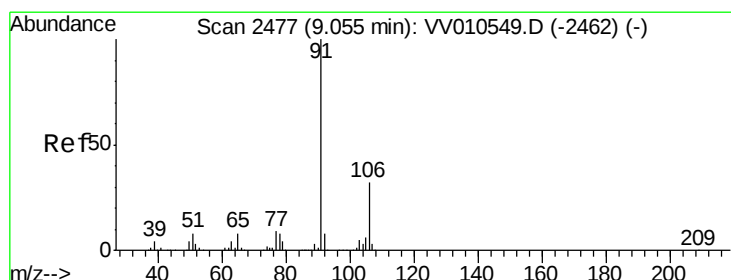
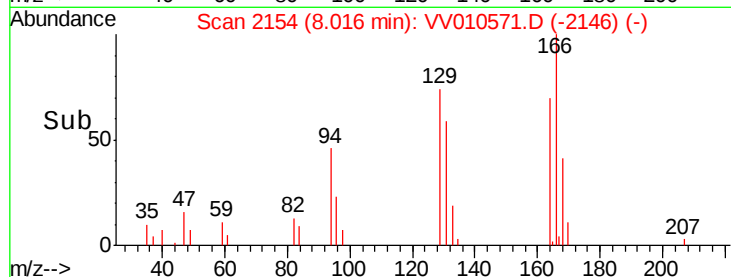
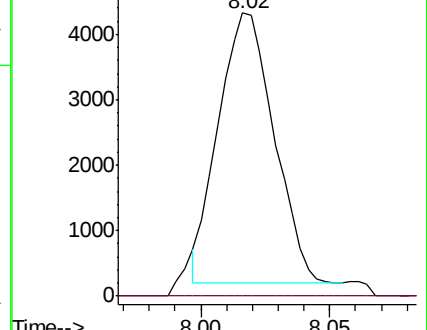
129 100

127 0.0 51.9 96.5#



Abundance Ion 128.95 (128.65 to 129.65): V

Ion 126.90 (126.60 to 127.60): V



#52

Ethylbenzene

Concen: 0.097 ug/L

RT: 9.05 min Scan# 2477

Delta R.T. -0.00 min

Lab File: VV010571.D

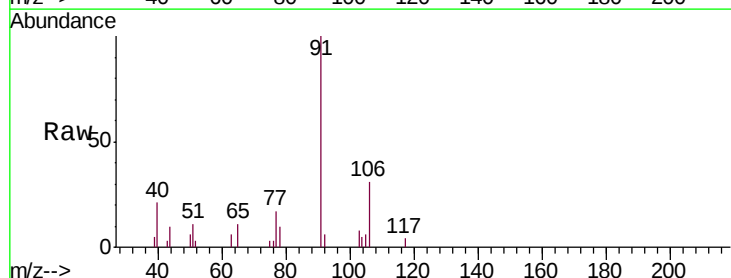
Acq: 30 Apr 2019 01:41

Tgt Ion: 91 Resp: 6448

Ion Ratio Lower Upper

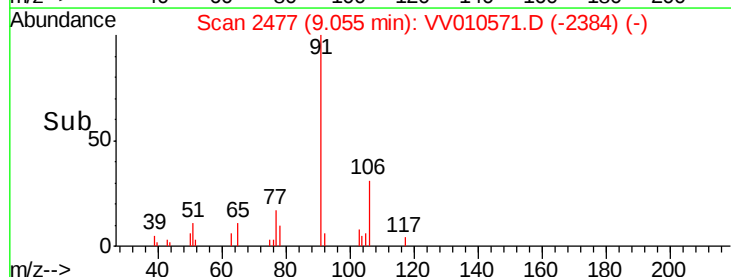
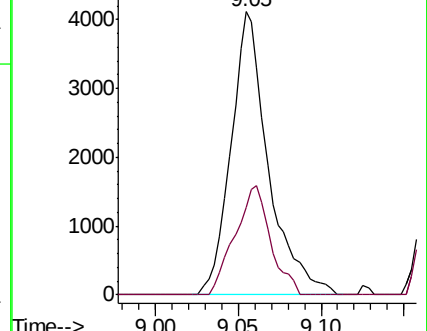
91 100

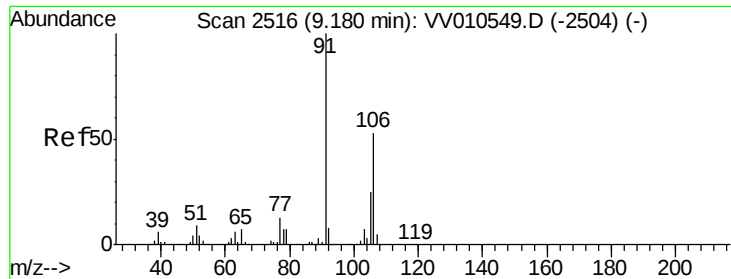
106 31.0 23.0 42.6



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 106.15 (105.85 to 106.85): V

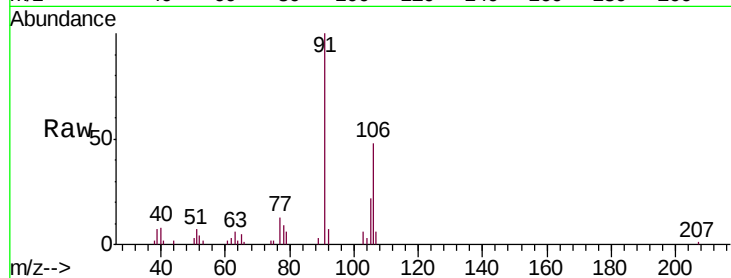




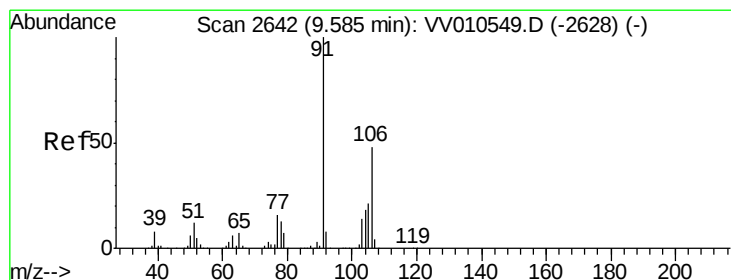
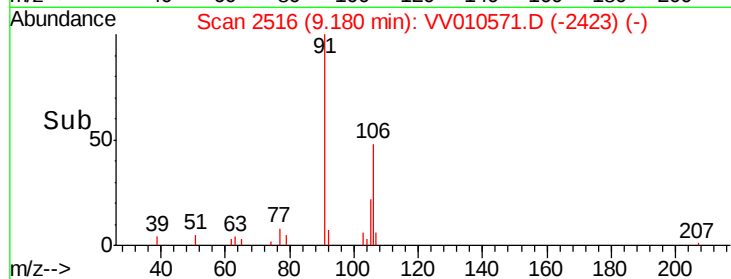
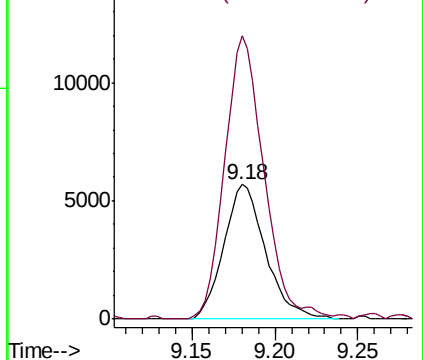
#53
m,p-xylene
Concen: 0.384 ug/L
RT: 9.18 min Scan# 2516
Delta R.T. -0.00 min
Lab File: VV010571.D
Acq: 30 Apr 2019 01:41

Instrument :
MSVOA_V
ClientSampleId :
C0XC5

Tgt Ion:106 Resp: 9989
Ion Ratio Lower Upper
106 100
91 210.5 140.5 260.9

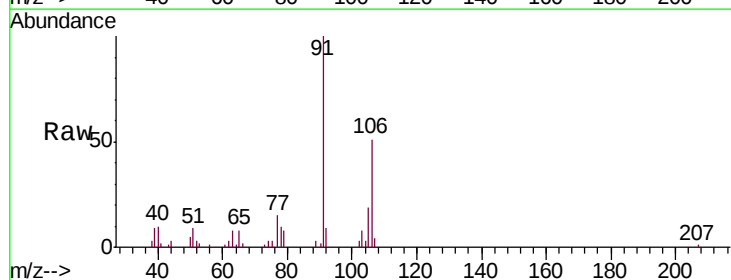


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

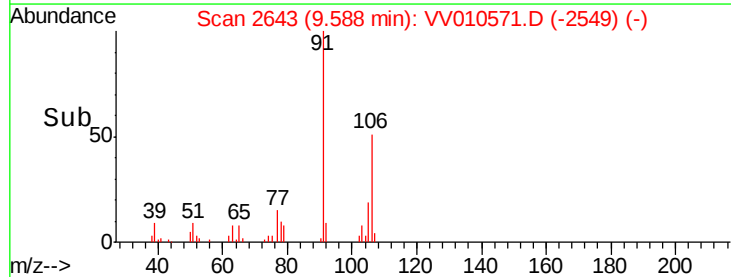
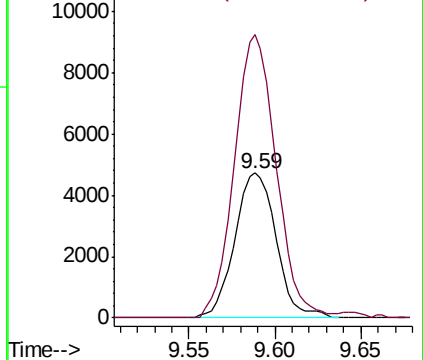


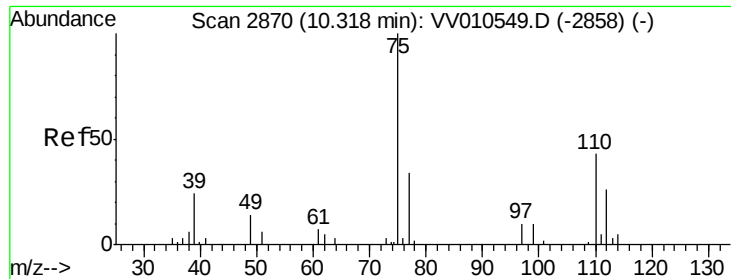
#54
o-xylene
Concen: 0.311 ug/L
RT: 9.59 min Scan# 2643
Delta R.T. 0.00 min
Lab File: VV010571.D
Acq: 30 Apr 2019 01:41

Tgt Ion:106 Resp: 7912
Ion Ratio Lower Upper
106 100
91 195.3 146.4 272.0



Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VV0

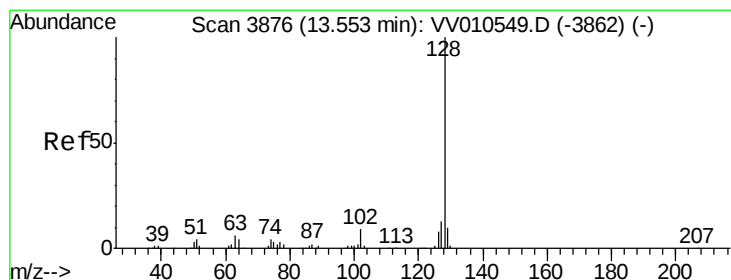
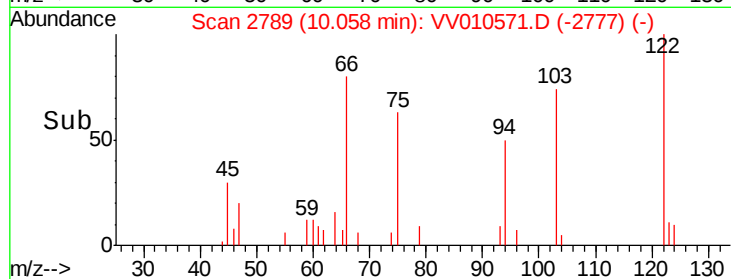
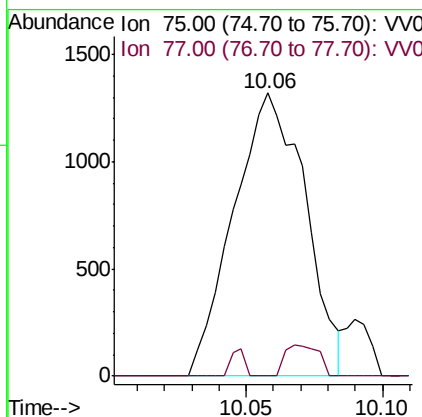
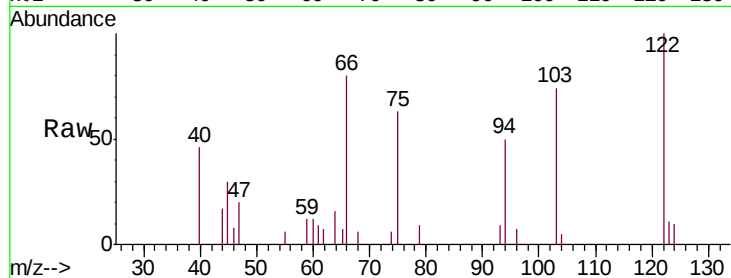




#59
 1,2,3-Trichloropropane
 Concen: 0.285 ug/L
 RT: 10.06 min Scan# 2789
 Delta R.T. -0.26 min
 Lab File: VV010571.D
 Acq: 30 Apr 2019 01:41

Instrument :
 MSVOA_V
 ClientSampleId :
 C0XC5

Tgt Ion: 75 Resp: 2410
 Ion Ratio Lower Upper
 75 100
 77 1.9 26.9 40.3#



#69
 Naphthalene
 Concen: 0.083 ug/L
 RT: 13.55 min Scan# 3876
 Delta R.T. -0.00 min
 Lab File: VV010571.D
 Acq: 30 Apr 2019 01:41

Tgt Ion: 128 Resp: 2528
 Ion Ratio Lower Upper
 128 100
 129 1.8 8.4 12.6#
 127 6.6 10.0 15.0#

