

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV102219\
 Data File : VV013279.D
 Acq On : 22 Oct 2019 15:11
 Operator : SY/MD
 Sample : K5462-07MSD
 Misc : 25.00ML/MSVOA V/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Oct 23 01:26:30 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR102119WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Oct 23 01:23:09 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	439857	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	468035	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	246436	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	186328	5.75	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	115.00%
7) Chloroethane-d5	1.58	69	152630	5.70	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	114.00%
11) 1,1-Dichloroethene-d2	2.13	63	281072	4.87	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	97.40%
20) 2-Butanone-d5	3.97	46	470038	75.48	ug/L	0.02
Spiked Amount	50.000	Range	40 - 130	Recovery	=	150.96%#
24) Chloroform-d	4.40	84	393027	5.15	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	103.00%
26) 1,2-Dichloroethane-d4	5.08	65	188037	5.32	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	106.40%
32) Benzene-d6	5.10	84	805415	5.31	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	106.20%
36) 1,2-Dichloropropane-d6	6.12	67	241121	5.29	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	105.80%
41) Toluene-d8	7.36	98	662467	4.72	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.40%
43) trans-1,3-Dichloropropene-	7.66	79	80199	4.65	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.00%
46) 2-Hexanone-d5	8.13	63	277276	45.09	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	90.18%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	169240	5.14	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.80%
64) 1,2-Dichlorobenzene-d4	11.67	152	267977	5.59	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	111.80%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	146187	3.444	ug/L	98
8) Chloroethane	1.32	64	47541	1.879	ug/L #	57
10) 1,1,2-Trichloro-1,2,2-trif	2.13	101	2778	0.077	ug/L #	27
12) 1,1-Dichloroethene	2.14	96	122184	3.533	ug/L	89
17) Methyl tert-butyl Ether	2.81	73	233208	2.912	ug/L	95
18) trans-1,2-Dichloroethene	2.79	96	79545	1.951	ug/L	95
19) 1,1-Dichloroethane	3.23	63	33551	0.506	ug/L	97
22) cis-1,2-Dichloroethene	3.96	96	2429853	55.685	ug/L #	89
27) 1,2-Dichloroethane	5.10	62	4848	0.105	ug/L	97
33) Benzene	5.14	78	740218	4.142	ug/L	100
34) Trichloroethene	5.96	95	723958	15.096	ug/L	98
35) Methylcyclohexane	6.12	83	60243	0.816	ug/L #	18
37) 1,2-Dichloropropane	6.12	63	25056	0.577	ug/L #	85
42) Toluene	7.43	91	738516	3.935	ug/L	100
44) trans-1,3-Dichloropropene	7.66	75	3440	0.074	ug/L #	60
47) Tetrachloroethene	8.02	164	14220	0.327	ug/L	96
48) 2-Hexanone	8.13	43	42951	2.711	ug/L #	76

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Response via : Initial Calibration

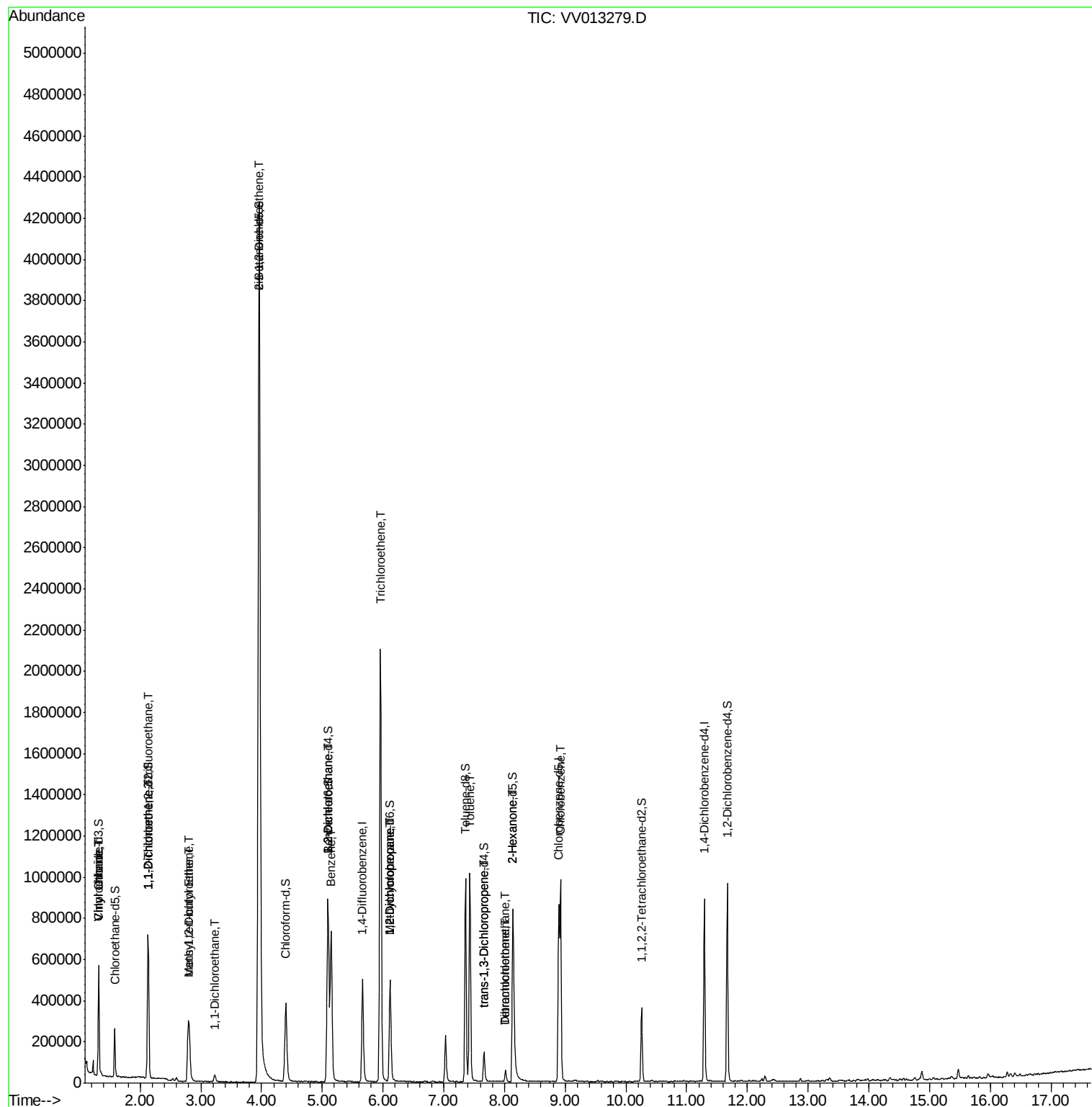
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
49) Dibromochloromethane	8.02	129	12582	0.330	ug/L #	11
51) Chlorobenzene	8.92	112	530425	4.317	ug/L	99

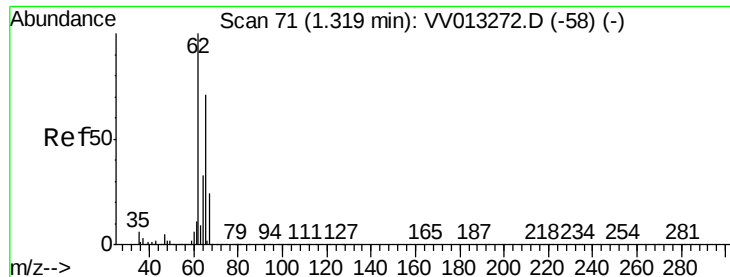
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#5

Vinyl chloride

Concen: 3.444 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV013279.D

Acq: 22 Oct 2019 15:11

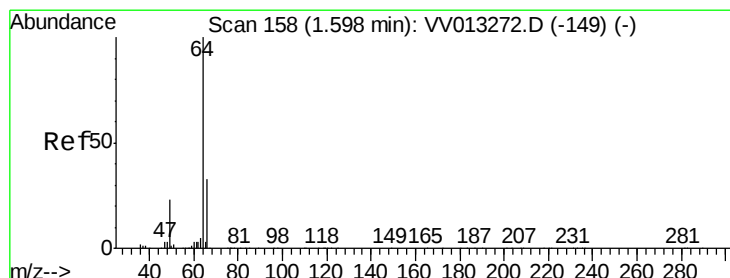
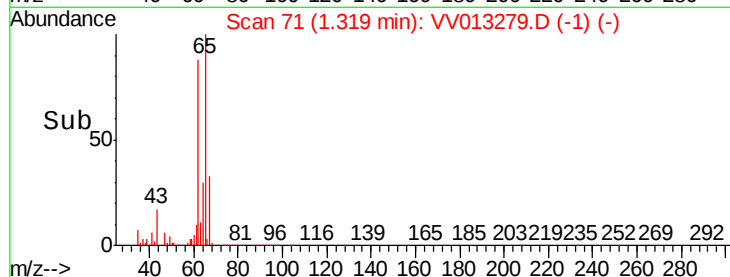
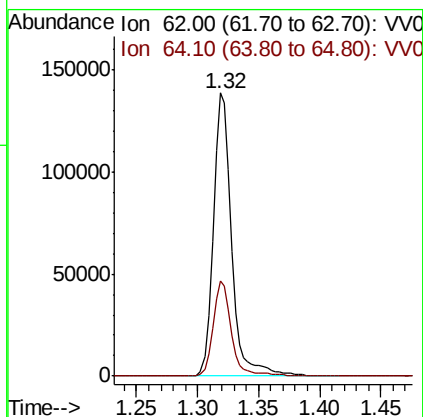
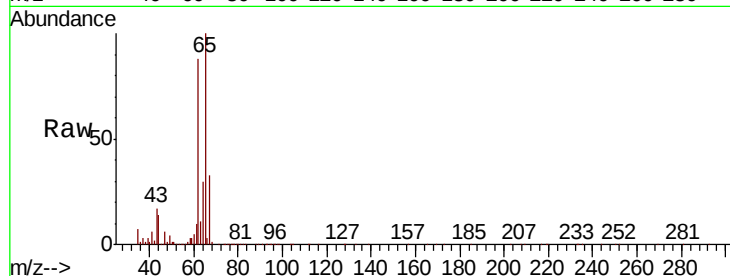
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 146187

Ion Ratio Lower Upper

62 100

64 33.8 22.9 42.5



#8

Chloroethane

Concen: 1.879 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.28 min

Lab File: VV013279.D

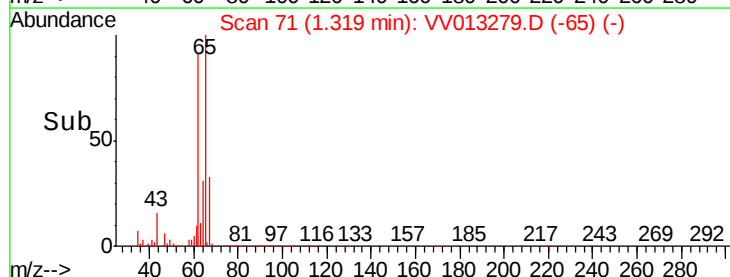
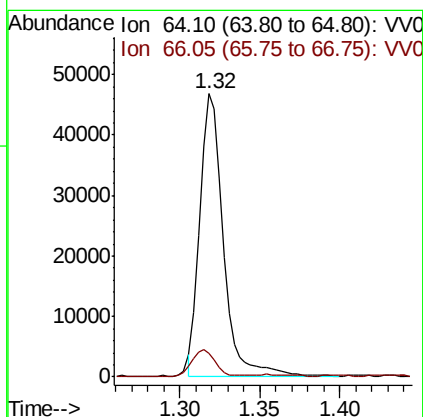
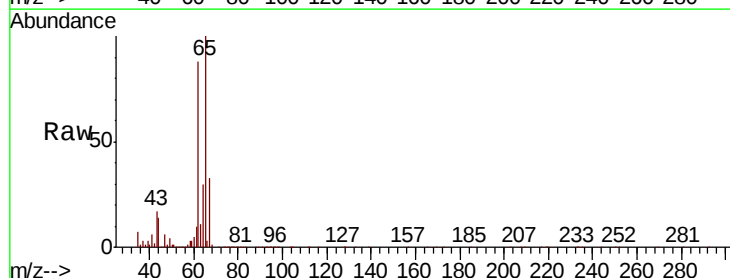
Acq: 22 Oct 2019 15:11

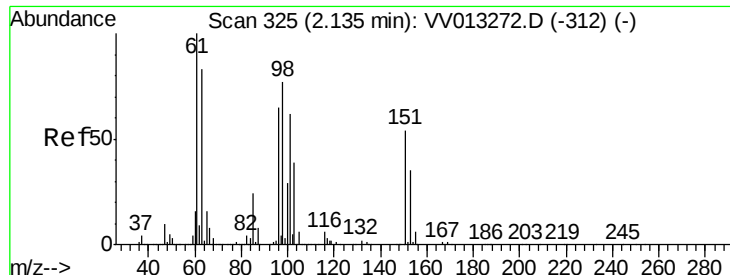
Tgt Ion: 64 Resp: 47541

Ion Ratio Lower Upper

64 100

66 8.5 22.7 42.3#





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 0.077 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV013279.D

Acq: 22 Oct 2019 15:11

Instrument :

MSVOA_V

ClientSampleId :

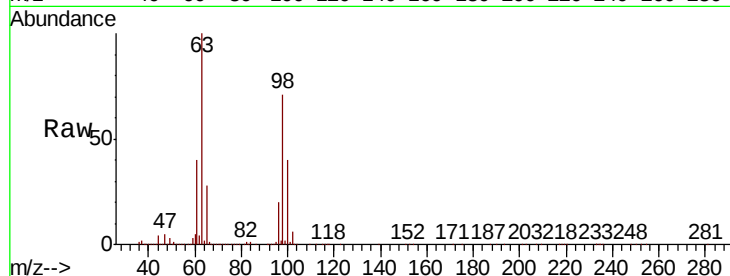
Tot Ion:101 Resp: 2778

Ion Ratio Lower Upper

101 100

85 1.6 31.8 47.8#

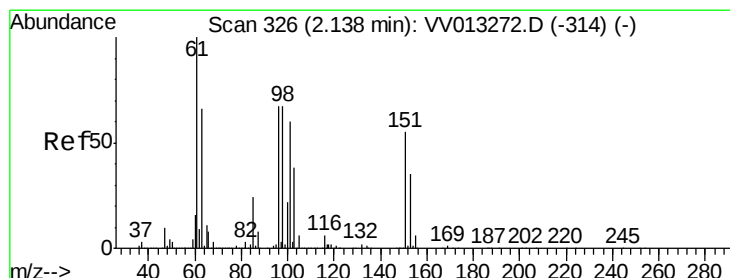
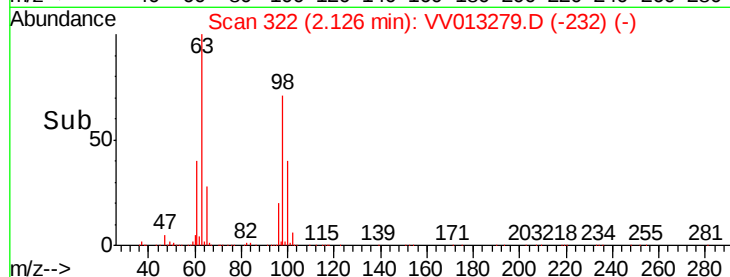
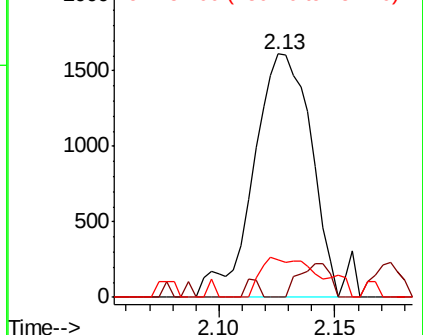
151 17.1 72.9 109.3#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VV0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 3.533 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VV013279.D

Acq: 22 Oct 2019 15:11

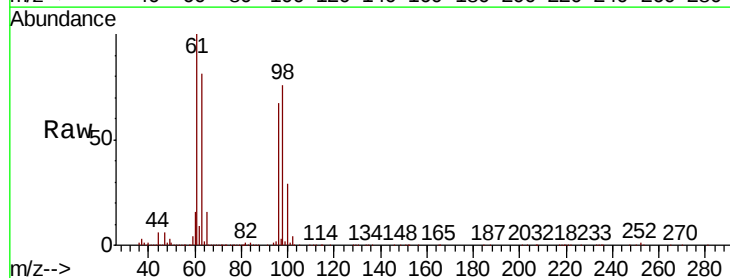
Tgt Ion: 96 Resp: 122184

Ion Ratio Lower Upper

96 100

61 149.8 104.0 193.1

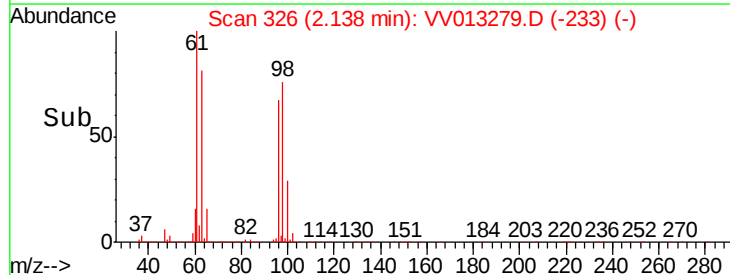
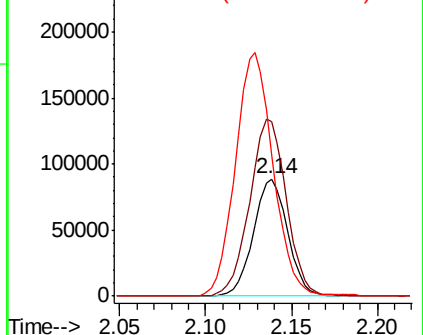
63 121.2 67.1 124.5

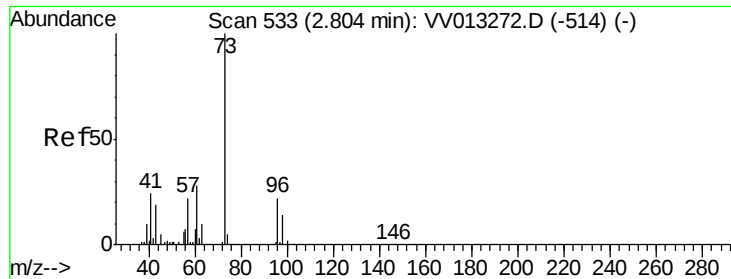


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0

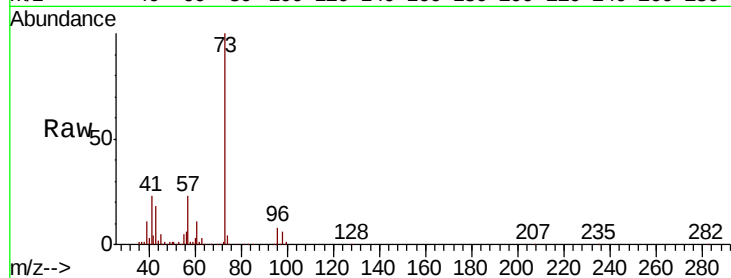




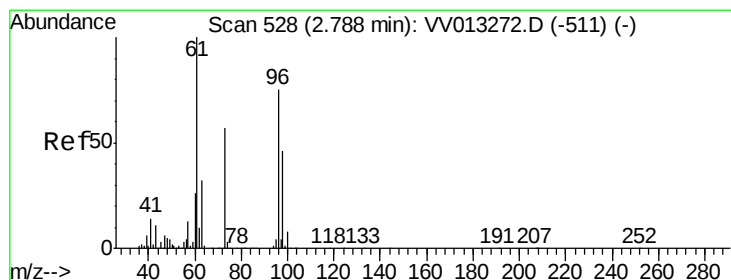
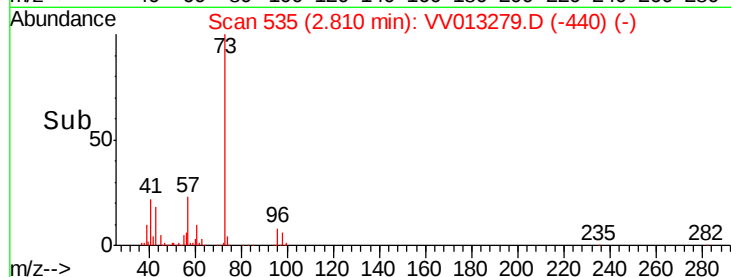
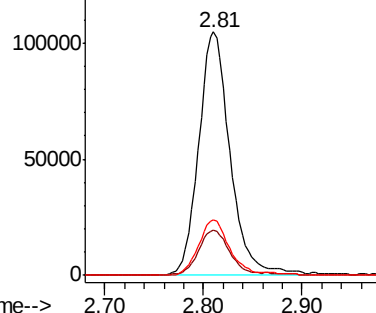
#17
Methvl tert-butvl Ether
Concen: 2.912 ug/L
RT: 2.81 min Scan# 535
Delta R.T. 0.01 min
Lab File: VV013279.D
Acq: 22 Oct 2019 15:11

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 73 Resp: 233208
Ion Ratio Lower Upper
73 100
43 18.0 13.1 19.7
57 22.8 16.4 24.6

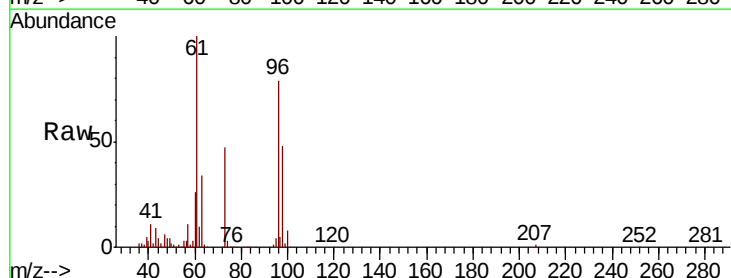


Abundance Ion 73.10 (72.80 to 73.80): VV0
Ion 43.05 (42.75 to 43.75): VV0
Ion 57.10 (56.80 to 57.80): VV0

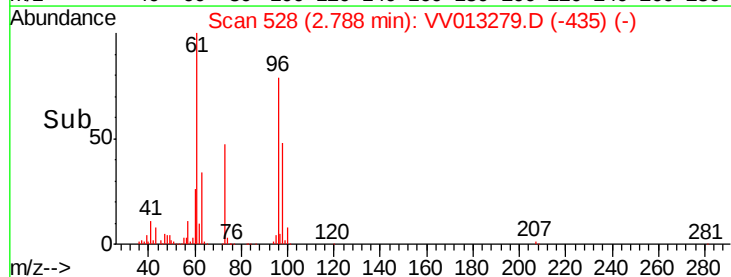
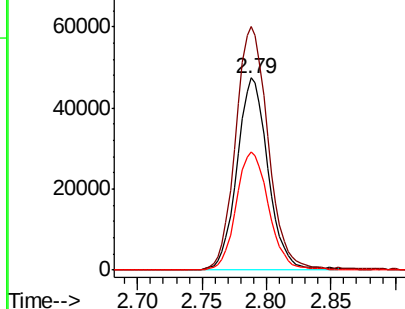


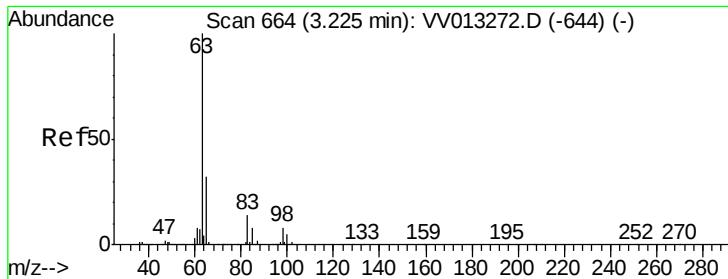
#18
trans-1,2-Dichloroethene
Concen: 1.951 ug/L
RT: 2.79 min Scan# 528
Delta R.T. 0.00 min
Lab File: VV013279.D
Acq: 22 Oct 2019 15:11

Tgt Ion: 96 Resp: 79545
Ion Ratio Lower Upper
96 100
61 126.9 84.4 156.8
98 61.3 44.4 82.4



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





#19

1,1-Dichloroethane

Concen: 0.506 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.01 min

Lab File: VV013279.D

Acq: 22 Oct 2019 15:11

Instrument :

MSVOA_V

ClientSampleId :

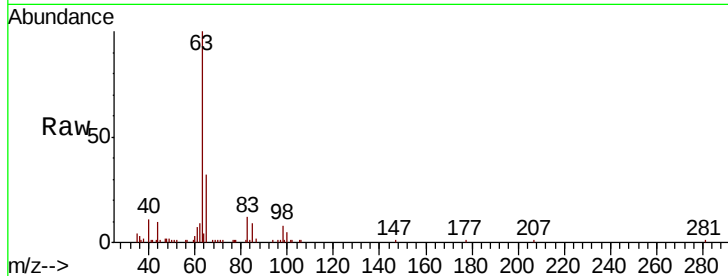
Tot Ion: 63 Resp: 33551

Ion Ratio Lower Upper

63 100

65 31.8 23.0 42.8

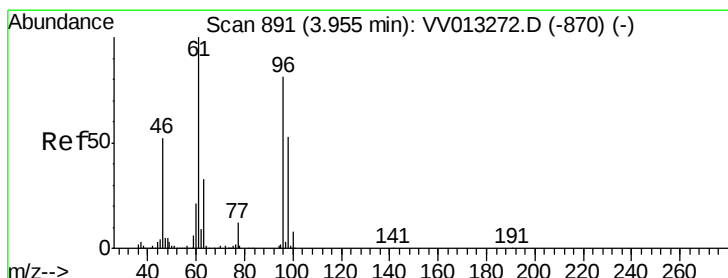
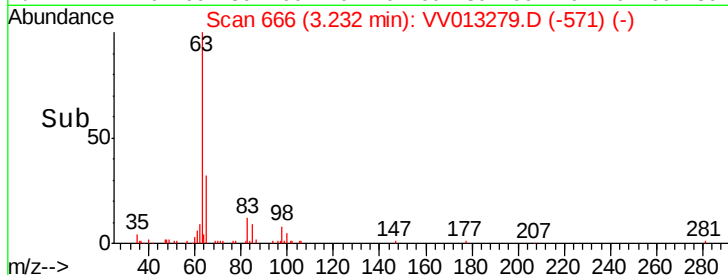
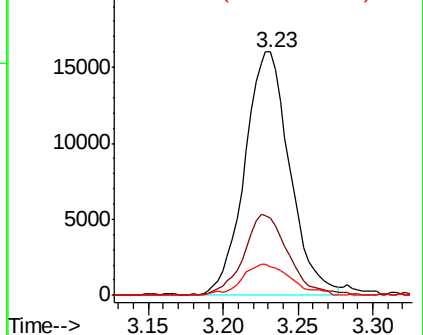
83 11.9 10.2 19.0



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 65.10 (64.80 to 65.80): VV0

Ion 83.05 (82.75 to 83.75): VV0



#22

cis-1,2-Dichloroethene

Concen: 55.685 ug/L

RT: 3.96 min Scan# 893

Delta R.T. 0.01 min

Lab File: VV013279.D

Acq: 22 Oct 2019 15:11

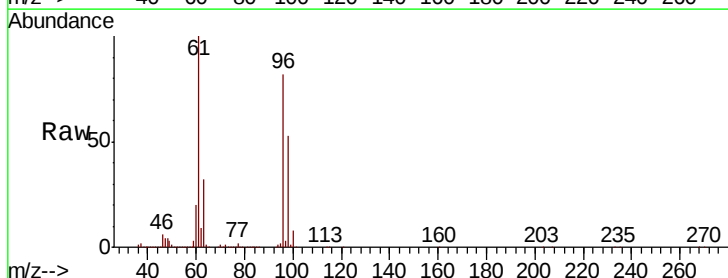
Tgt Ion: 96 Resp: 2429853

Ion Ratio Lower Upper

96 100

61 122.4 77.3 143.7

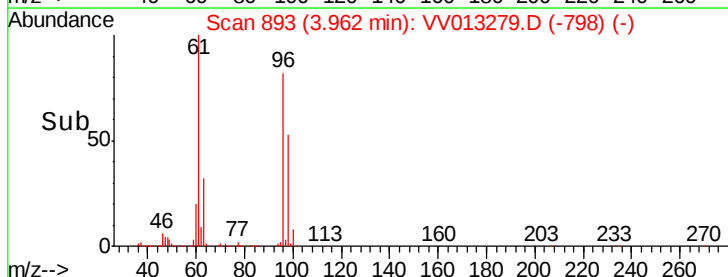
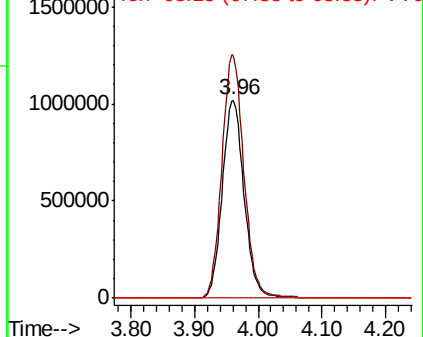
68 0.0 0.1 0.1#

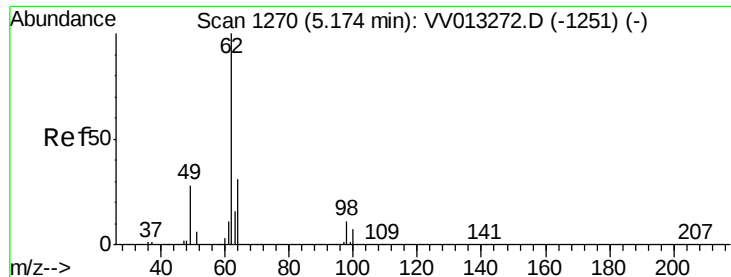


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 68.15 (67.85 to 68.85): VV0





#27

1,2-Dichloroethane

Concen: 0.105 ug/L

RT: 5.10 min Scan# 1247

Delta R.T. -0.07 min

Lab File: VV013279.D

Acq: 22 Oct 2019 15:11

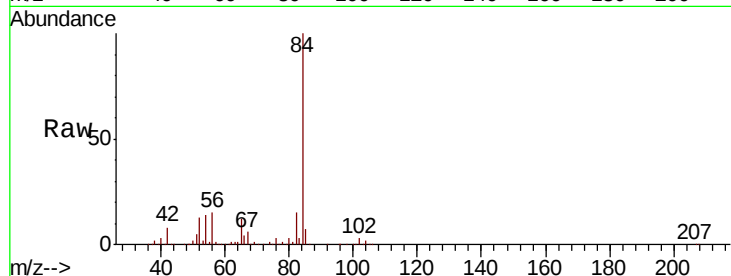
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 4848

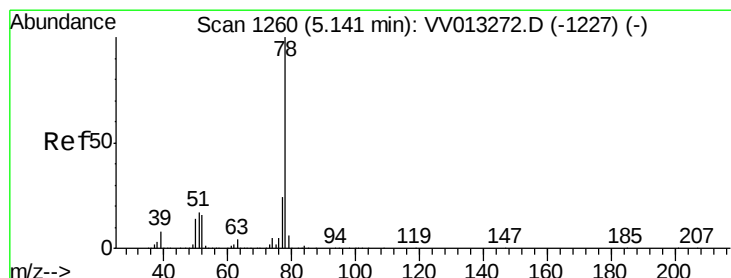
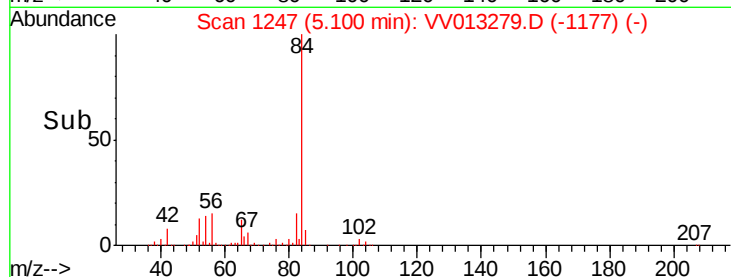
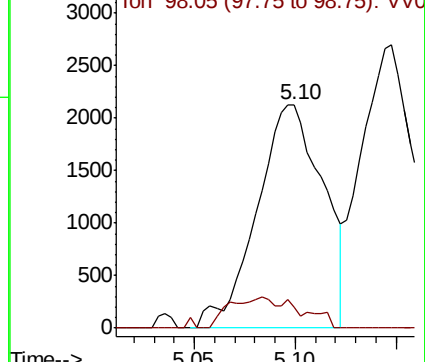
Ion Ratio Lower Upper

62 100

98 9.4 8.3 12.5



Abundance Ion 62.00 (61.70 to 62.70): VV013272.D (-1251) (-)



#33

Benzene

Concen: 4.142 ug/L

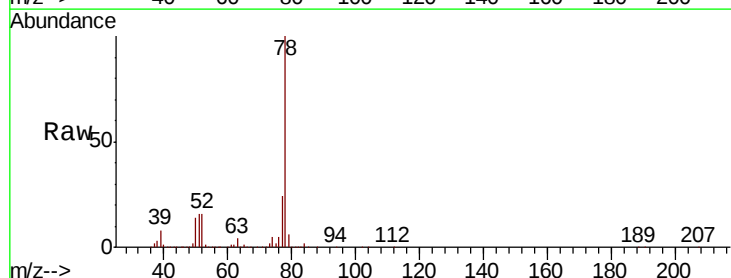
RT: 5.14 min Scan# 1261

Delta R.T. 0.00 min

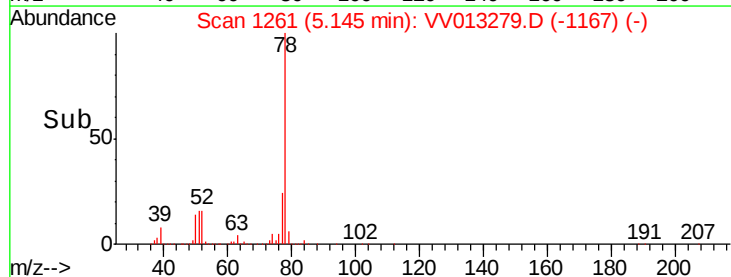
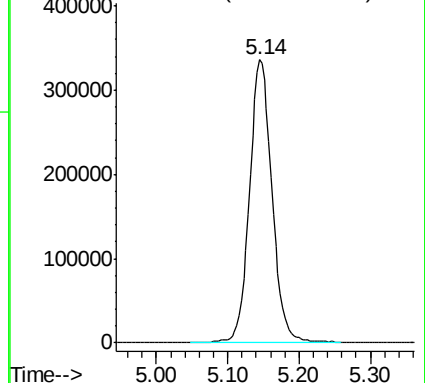
Lab File: VV013279.D

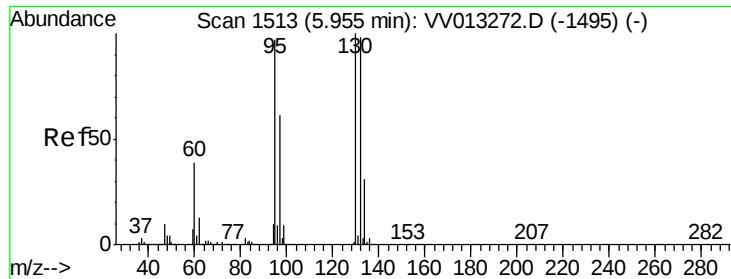
Acq: 22 Oct 2019 15:11

Tgt Ion: 78 Resp: 740218



Abundance Ion 78.10 (77.80 to 78.80): VV013272.D (-1227) (-)





#34

Trichloroethene

Concen: 15.096 ug/L

RT: 5.96 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VV013279.D

Acq: 22 Oct 2019 15:11

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 95 Resp: 723958

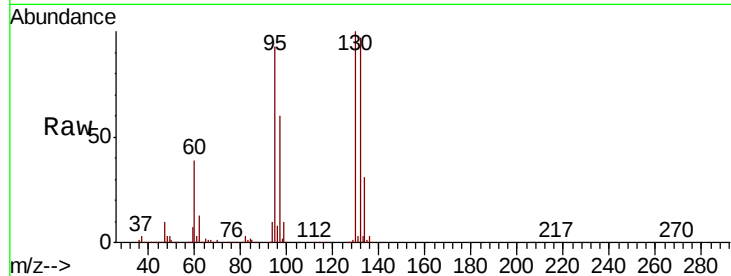
Ion Ratio Lower Upper

95 100

97 64.9 45.2 84.0

132 105.0 70.6 131.2

130 108.0 75.5 140.3

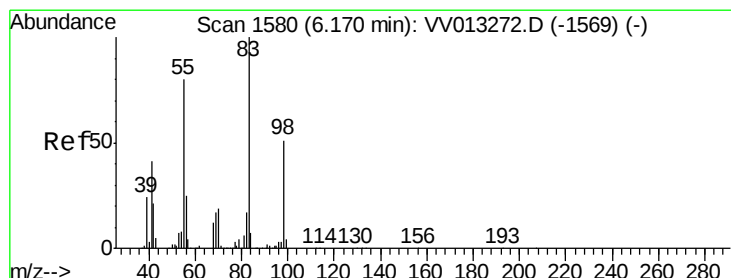
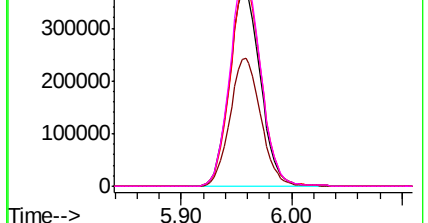
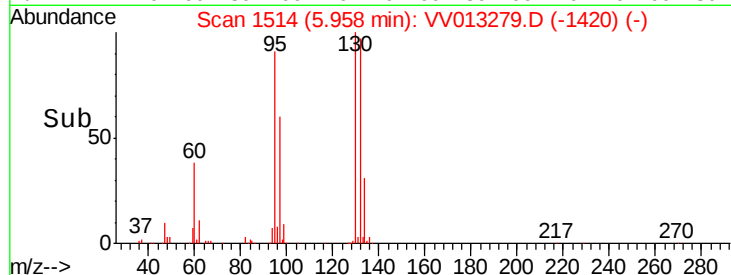


Abundance Ion 95.00 (94.70 to 95.70): VV013279.D (-1420) (-)

Ion 96.95 (96.65 to 97.65): VV013279.D (-1420) (-)

Ion 131.95 (131.65 to 132.65): VV013279.D (-1420) (-)

Ion 129.95 (129.65 to 130.65): VV013279.D (-1420) (-)



#35

Methylcyclohexane

Concen: 0.816 ug/L

RT: 6.12 min Scan# 1563

Delta R.T. -0.05 min

Lab File: VV013279.D

Acq: 22 Oct 2019 15:11

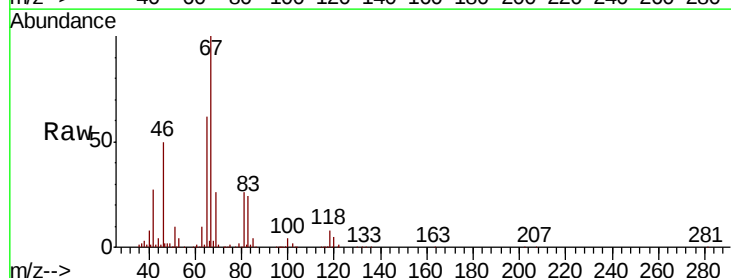
Tgt Ion: 83 Resp: 60243

Ion Ratio Lower Upper

83 100

55 0.4 62.4 93.6#

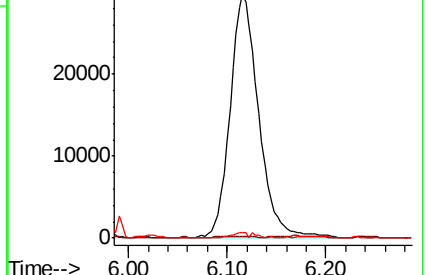
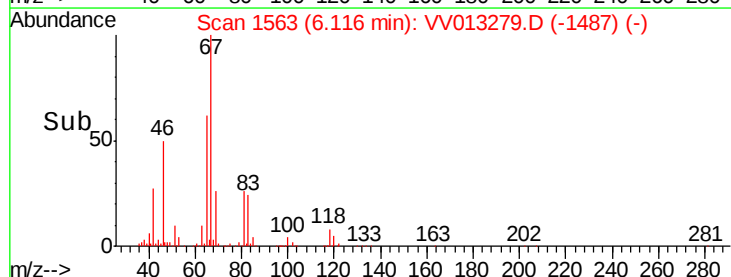
98 1.2 39.2 58.8#

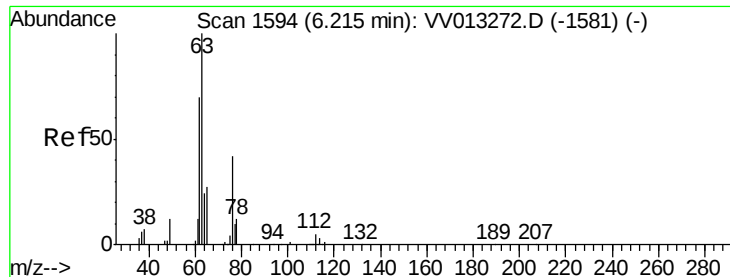


Abundance Ion 83.15 (82.85 to 83.85): VV013279.D (-1487) (-)

Ion 55.10 (54.80 to 55.80): VV013279.D (-1487) (-)

Ion 98.15 (97.85 to 98.85): VV013279.D (-1487) (-)





#37

1,2-Dichloropropane

Concen: 0.577 ug/L

RT: 6.12 min Scan# 1563

Delta R.T. -0.10 min

Lab File: VV013279.D

Acq: 22 Oct 2019 15:11

Instrument :

MSVOA_V

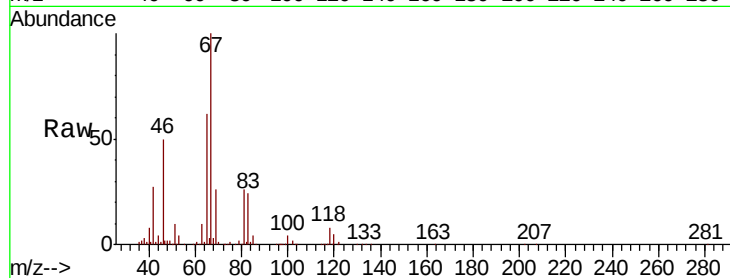
ClientSampled :

Tot Ion: 63 Resp: 25056

Ion Ratio Lower Upper

63 100

112 0.2 4.1 6.1#



Abundance Ion 63.10 (62.80 to 63.80): VV0

Ion 112.10 (111.80 to 112.80): VV0

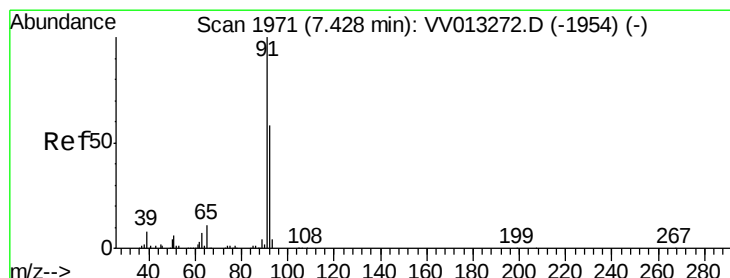
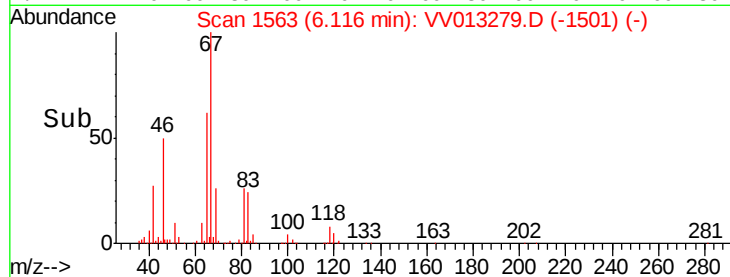
6.12

10000

5000

0

Time-->



#42

Toluene

Concen: 3.935 ug/L

RT: 7.43 min Scan# 1972

Delta R.T. 0.00 min

Lab File: VV013279.D

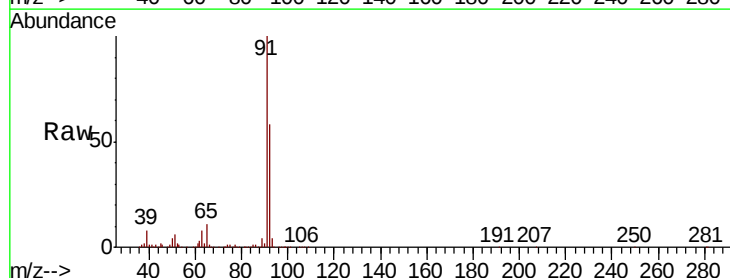
Acq: 22 Oct 2019 15:11

Tgt Ion: 91 Resp: 738516

Ion Ratio Lower Upper

91 100

92 57.7 40.5 75.1



Abundance Ion 91.15 (90.85 to 91.85): VV0

Ion 92.15 (91.85 to 92.85): VV0

7.43

500000

400000

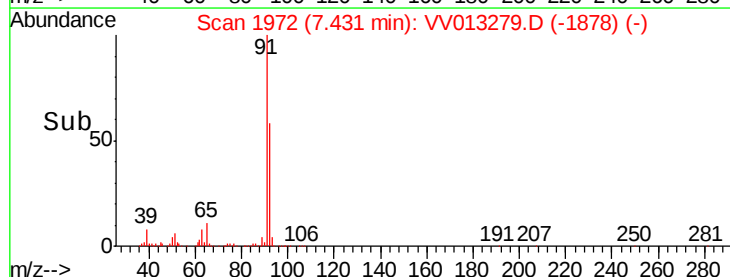
300000

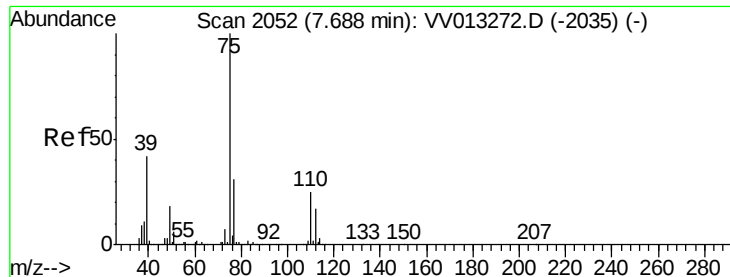
200000

100000

0

Time-->





#44

trans-1,3-Dichloropropene

Concen: 0.074 ug/L

RT: 7.66 min Scan# 2044

Delta R.T. -0.03 min

Lab File: VV013279.D

Acq: 22 Oct 2019 15:11

Instrument :

MSVOA_V

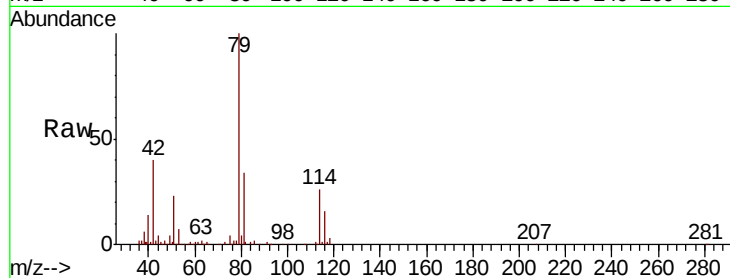
ClientSampleId :

Tot Ion: 75 Resp: 3440

Ion Ratio Lower Upper

75 100

77 53.1 21.8 40.6#



Abundance Ion 75.05 (74.75 to 75.75): VV013279.D (-1959) (-)

Ion 77.05 (76.75 to 77.75): VV013279.D (-1959) (-)

7.66

2000

1500

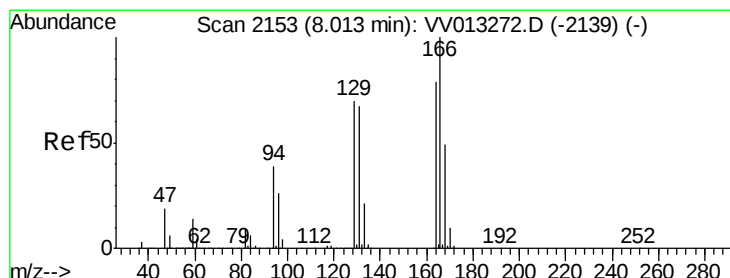
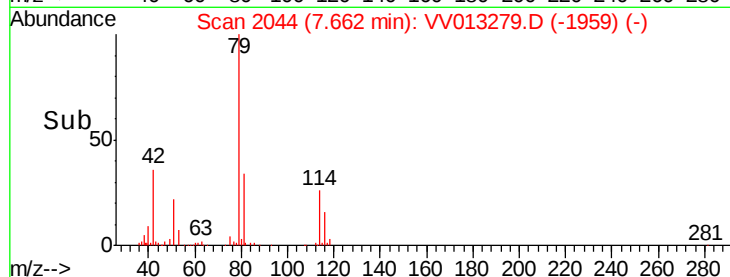
1000

500

0

7.60 7.65 7.70

Time-->



#47

Tetrachloroethene

Concen: 0.327 ug/L

RT: 8.02 min Scan# 2155

Delta R.T. 0.01 min

Lab File: VV013279.D

Acq: 22 Oct 2019 15:11

Tgt Ion: 164 Resp: 14220

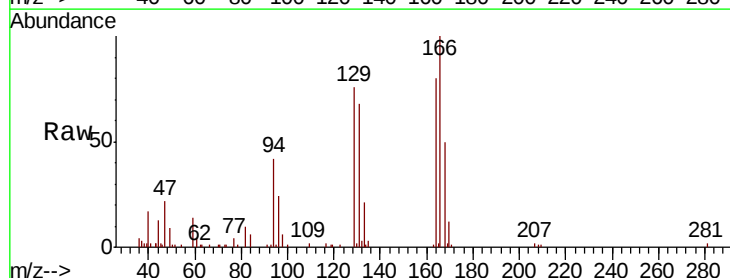
Ion Ratio Lower Upper

164 100

129 95.4 61.0 113.2

131 85.4 57.5 106.9

166 125.1 87.8 163.0



Abundance Ion 163.90 (163.60 to 164.60): VV013279.D (-2060) (-)

Ion 128.95 (128.65 to 129.65): VV013279.D (-2060) (-)

Ion 130.95 (130.65 to 131.65): VV013279.D (-2060) (-)

Ion 165.90 (165.60 to 166.60): VV013279.D (-2060) (-)

15000

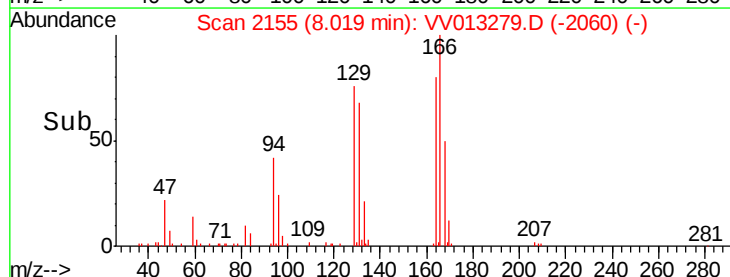
10000

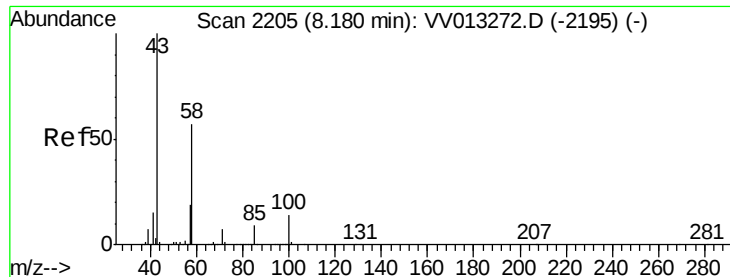
5000

0

7.95 8.00 8.05

Time-->

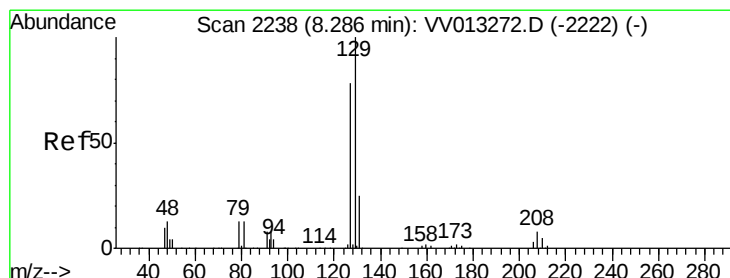
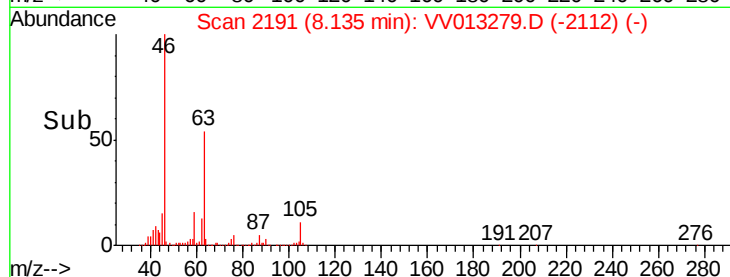
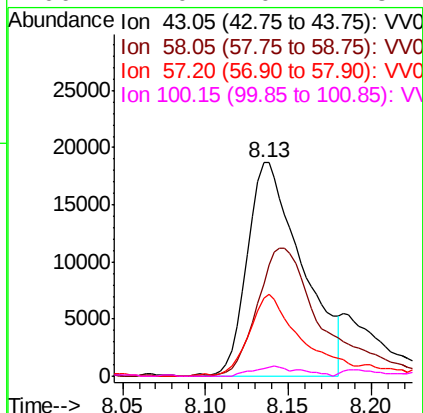
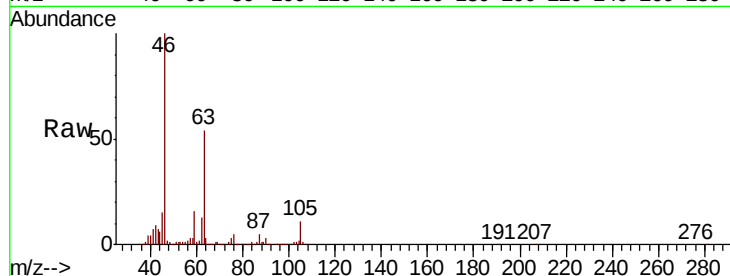




#48
2-Hexanone
Concen: 2.711 ug/L
RT: 8.13 min Scan# 2191
Delta R.T. -0.04 min
Lab File: VV013279.D
Acq: 22 Oct 2019 15:11

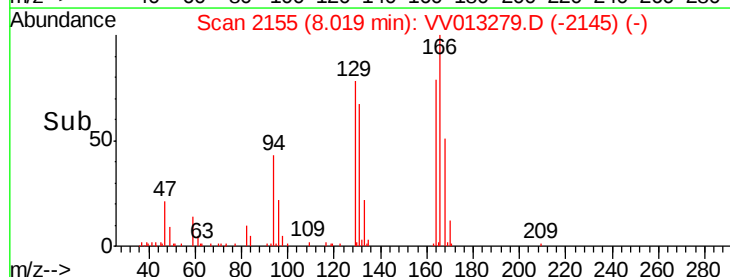
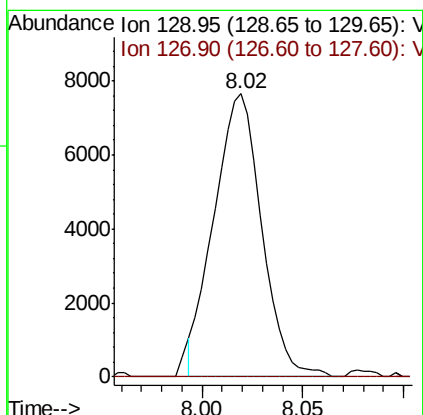
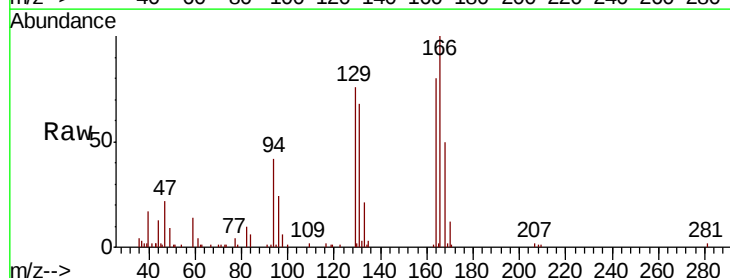
Instrument :
MSVOA_V
ClientSampled :

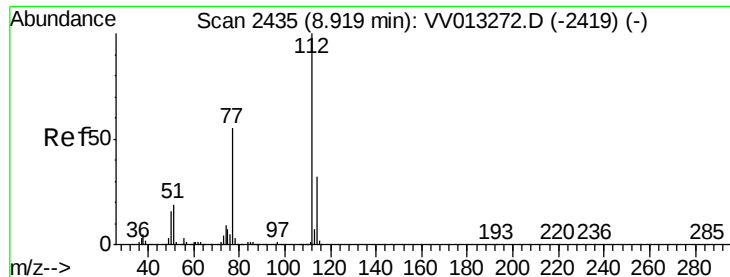
Tot Ion: 43 Resp: 42951
Ion Ratio Lower Upper
43 100
58 71.6 45.1 67.7#
57 35.0 15.5 23.3#
100 4.0 10.2 15.2#



#49
Dibromochloromethane
Concen: 0.330 ug/L
RT: 8.02 min Scan# 2155
Delta R.T. -0.27 min
Lab File: VV013279.D
Acq: 22 Oct 2019 15:11

Tgt Ion: 129 Resp: 12582
Ion Ratio Lower Upper
129 100
127 0.0 54.1 100.5#





#51
Chlorobenzene
Concen: 4.317 ug/L
RT: 8.92 min Scan# 2436
Delta R.T. 0.00 min
Lab File: VV013279.D
Acq: 22 Oct 2019 15:11

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.8	21.8	40.6
77	55.7	44.4	66.6

