

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042420\
 Data File : VV015681.D
 Acq On : 24 Apr 2020 18:04
 Operator : SY/MD
 Sample : L2370-20
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Apr 25 00:21:07 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR042220WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Sat Apr 25 00:15:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	125546	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	120408	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	57728	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	60802	9.27	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	185.40%#
7) Chloroethane-d5	1.58	69	30216	4.78	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	95.60%
11) 1,1-Dichloroethene-d2	2.12	63	46927	3.27	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	65.40%
20) 2-Butanone-d5	3.91	46	105301	49.98	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	99.96%
24) Chloroform-d	4.38	84	72019	4.71	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	94.20%
26) 1,2-Dichloroethane-d4	5.06	65	41958	4.90	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.00%
32) Benzene-d6	5.08	84	134761	4.69	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	93.80%
36) 1,2-Dichloropropane-d6	6.10	67	44019	4.79	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	95.80%
41) Toluene-d8	7.34	98	122360	4.48	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.60%
43) trans-1,3-Dichloropropene-	7.65	79	14262	4.01	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	80.20%
46) 2-Hexanone-d5	8.11	63	80502	46.49	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	92.98%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	31849	4.66	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	93.20%
64) 1,2-Dichlorobenzene-d4	11.65	152	48723	4.97	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	99.40%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	1.35	85	767	0.071	ug/L	95
3) Chloromethane	1.32	50	38332	4.120	ug/L #	45
5) Vinyl chloride	1.32	62	3897373	392.252	ug/L	95
8) Chloroethane	1.32	64	1419734	217.564	ug/L #	43
12) 1,1-Dichloroethene	2.13	96	4676	0.640	ug/L #	1
14) Carbon disulfide	2.39	76	2030	0.098	ug/L	100
15) Methyl Acetate	2.45	43	855	0.246	ug/L #	56
17) Methyl tert-butyl Ether	2.79	73	6060	0.295	ug/L #	83
18) trans-1,2-Dichloroethene	2.78	96	6748	0.825	ug/L	94
19) 1,1-Dichloroethane	3.22	63	1056	0.066	ug/L #	88
22) cis-1,2-Dichloroethene	3.94	96	3122361	345.161	ug/L	98
27) 1,2-Dichloroethane	5.08	62	999	0.089	ug/L #	78
33) Benzene	5.13	78	5206	0.151	ug/L	100
34) Trichloroethene	5.94	95	31289	3.293	ug/L	97
37) 1,2-Dichloropropane	6.10	63	5861	0.670	ug/L #	86
39) cis-1,3-Dichloropropene	7.01	75	1328	0.109	ug/L #	75
42) Toluene	7.42	91	4200	0.114	ug/L	94

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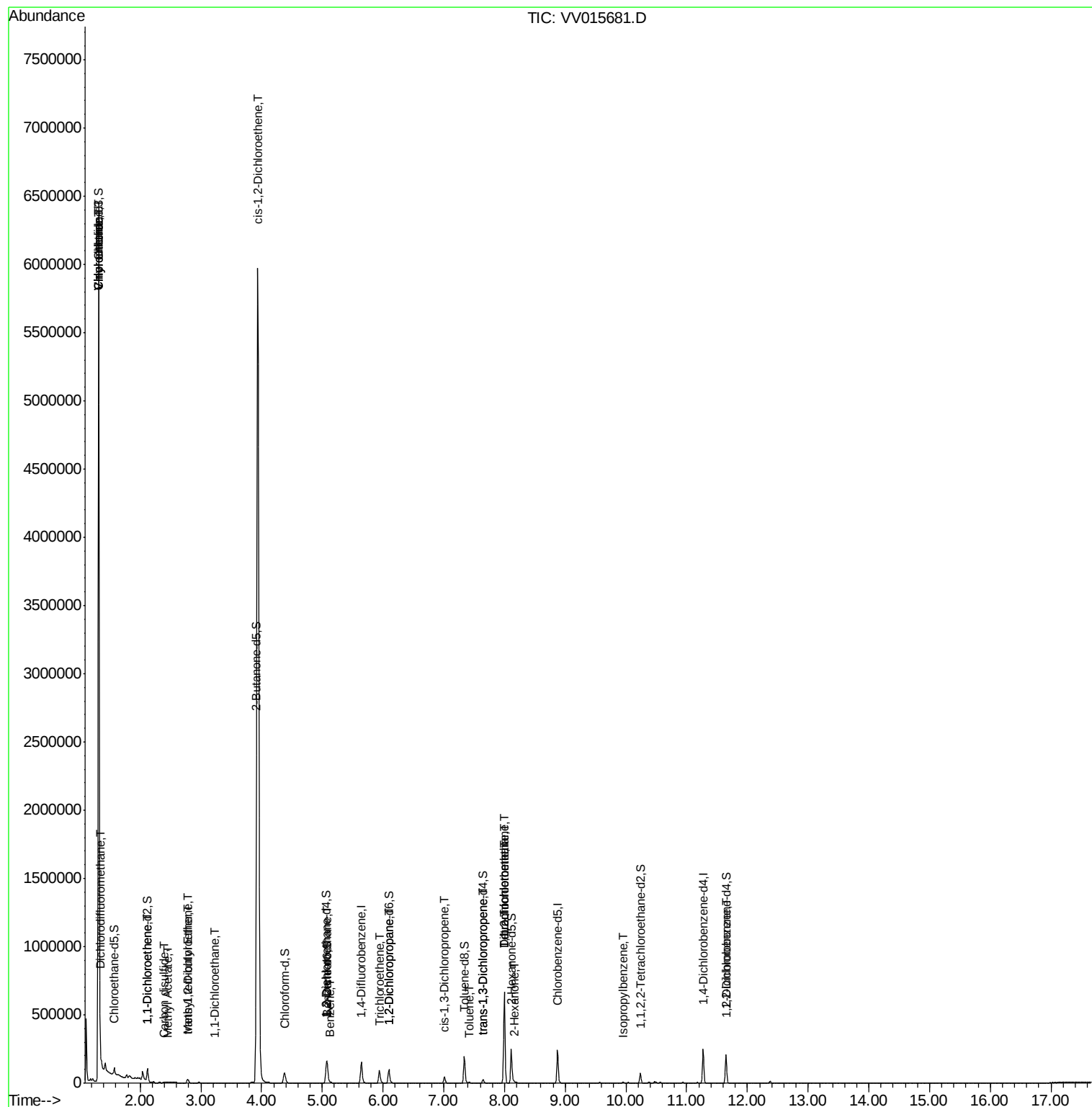
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) trans-1,3-Dichloropropene	7.64	75	686	0.067	ug/L #	75
45) 1,1,2-Trichloroethane	7.99	97	1416	0.238	ug/L #	21
47) Tetrachloroethene	8.00	164	133425	19.505	ug/L	97
48) 2-Hexanone	8.16	43	3725	0.920	ug/L #	88
49) Dibromochloromethane	8.00	129	130033	21.082	ug/L #	12
56) Isopropylbenzene	9.96	105	3613	0.085	ug/L	99
65) 1,2-Dichlorobenzene	11.67	146	2063	0.125	ug/L #	90

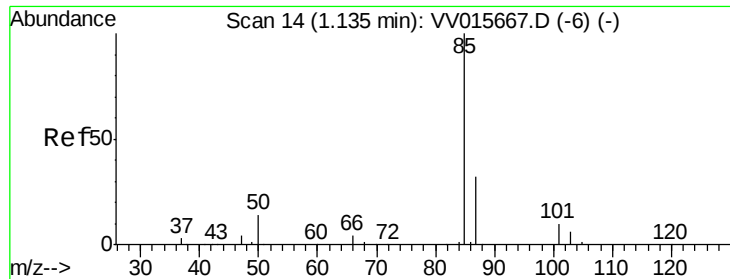
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 0.071 ug/L

RT: 1.35 min Scan# 80

Delta R.T. 0.21 min

Lab File: VV015681.D

Acq: 24 Apr 2020 18:04

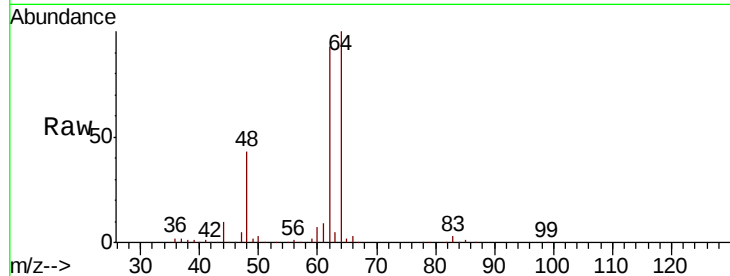
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 85 Resp: 767

Ion Ratio Lower Upper

85 100

87 29.9 26.1 39.1



Abundance Ion 85.00 (84.70 to 85.70): VV0

Ion 87.00 (86.70 to 87.70): VV0

1.35

800

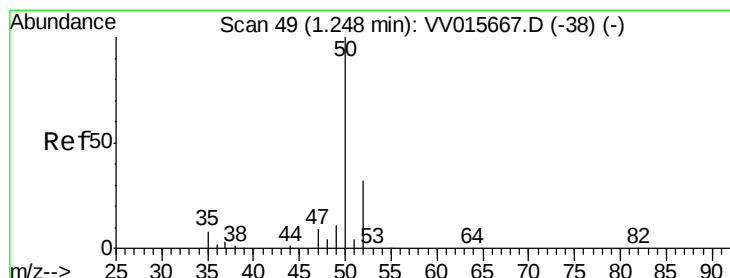
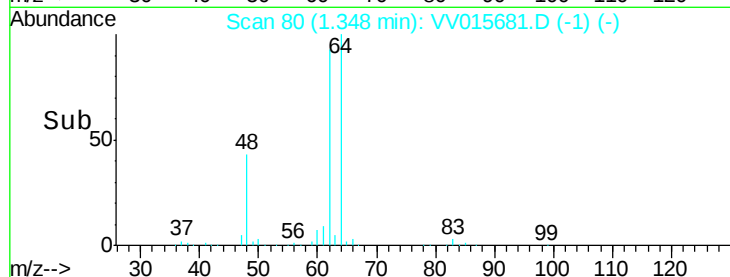
600

400

200

0

Time-->



#3

Chloromethane

Concen: 4.120 ug/L

RT: 1.32 min Scan# 70

Delta R.T. 0.07 min

Lab File: VV015681.D

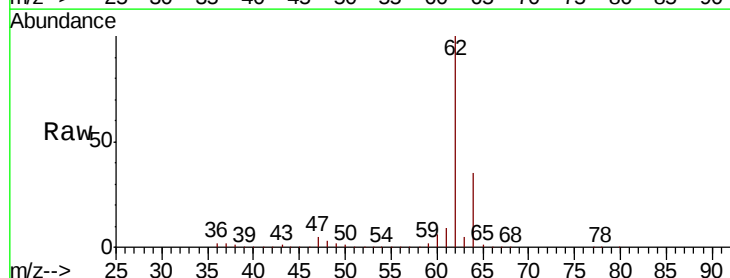
Acq: 24 Apr 2020 18:04

Tgt Ion: 50 Resp: 38332

Ion Ratio Lower Upper

50 100

52 1.6 22.9 42.5#



Abundance Ion 50.05 (49.75 to 50.75): VV0

Ion 52.05 (51.75 to 52.75): VV0

1.32

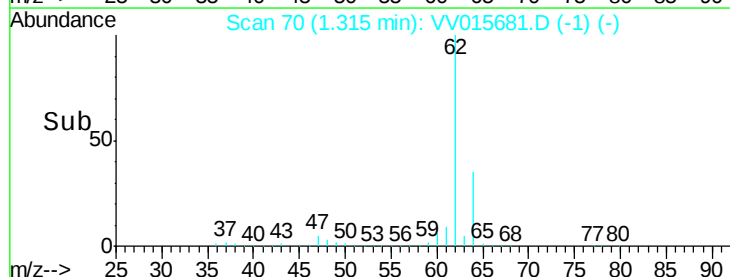
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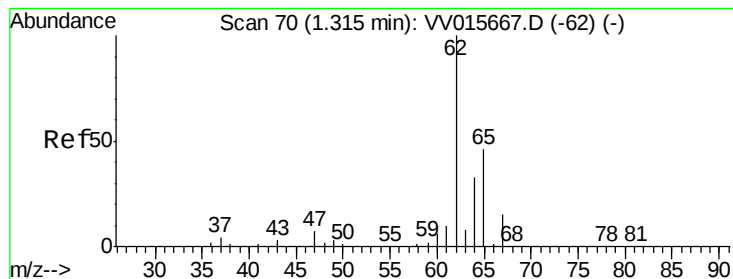
20000

10000

0

Time-->





#5

Vinyl chloride

Concen: 392.252 ug/L

RT: 1.32 min Scan# 70

Delta R.T. 0.00 min

Lab File: VV015681.D

Acq: 24 Apr 2020 18:04

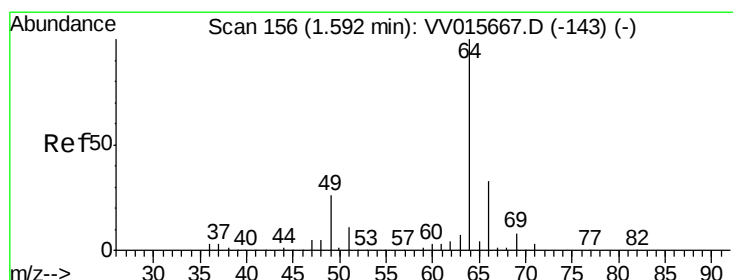
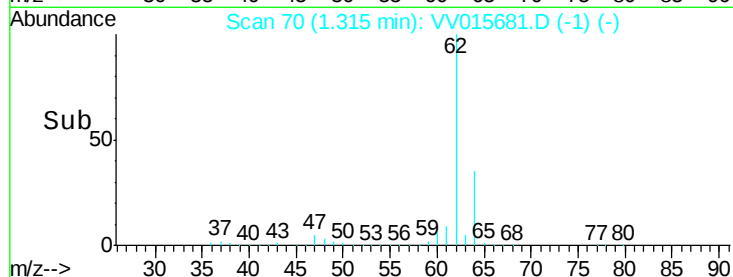
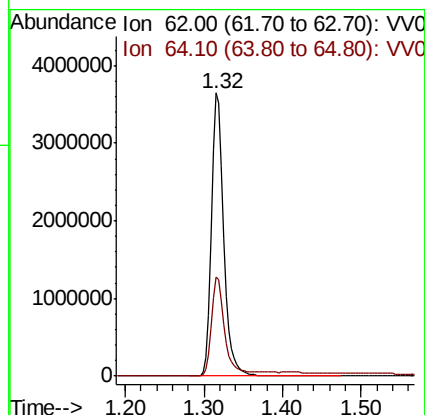
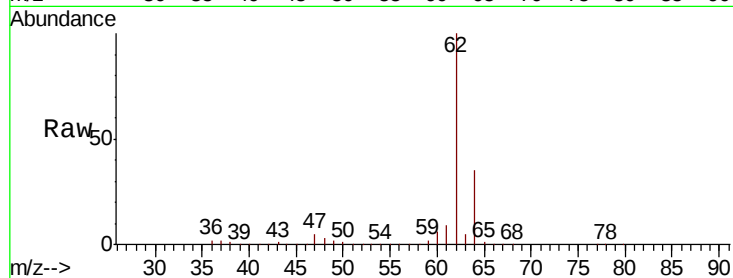
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 3897373

Ion Ratio Lower Upper

62 100

64 35.1 22.7 42.1



#8

Chloroethane

Concen: 217.564 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.28 min

Lab File: VV015681.D

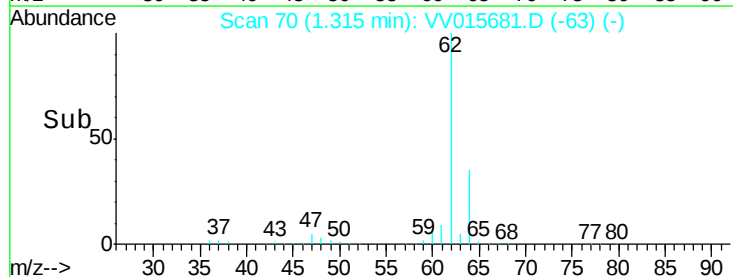
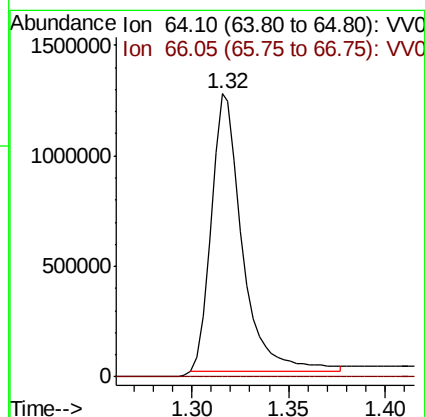
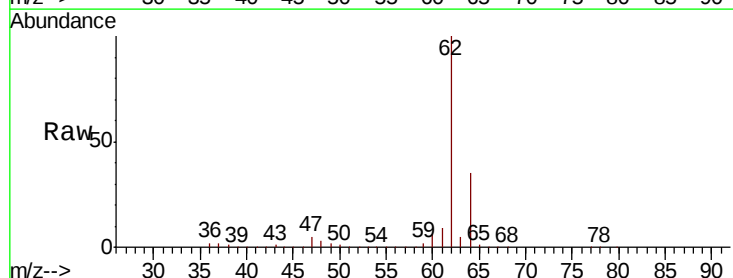
Acq: 24 Apr 2020 18:04

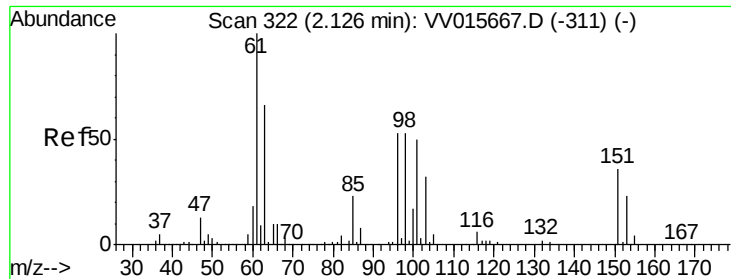
Tgt Ion: 64 Resp: 1419734

Ion Ratio Lower Upper

64 100

66 0.3 22.3 41.5#





#12

1,1-Dichloroethene

Concen: 0.640 ug/L

RT: 2.13 min Scan# 324

Delta R.T. 0.01 min

Lab File: VV015681.D

Acq: 24 Apr 2020 18:04

Instrument :
MSVOA_V
ClientSampled :

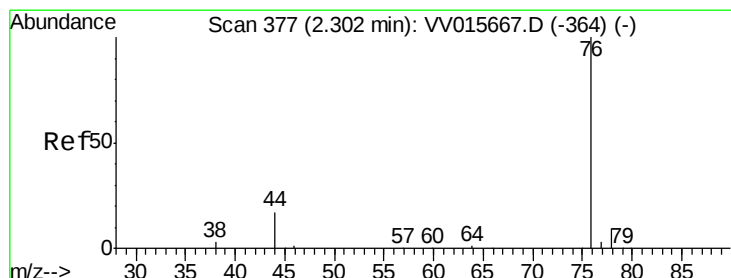
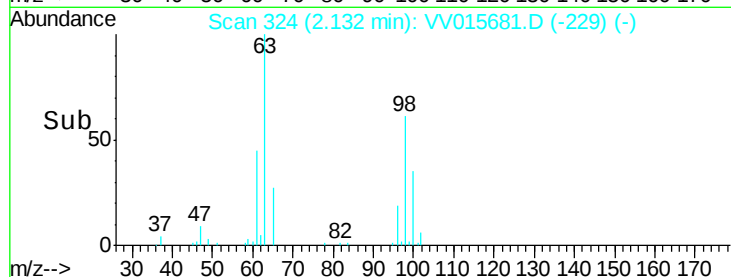
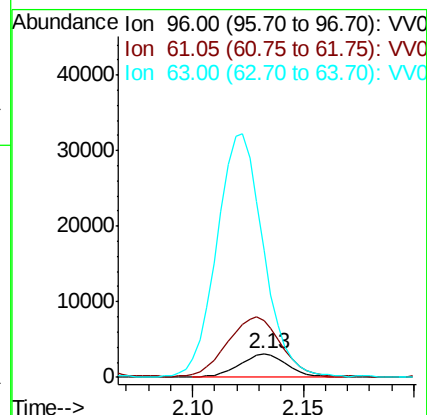
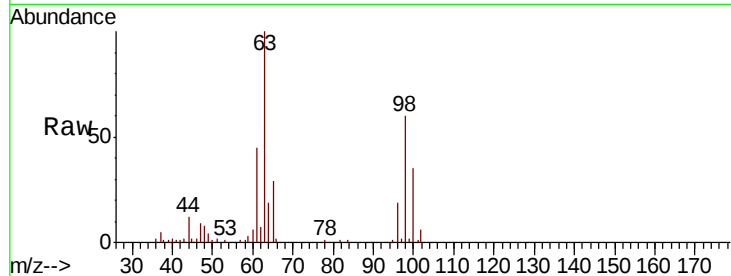
Tot Ion: 96 Resp: 4676

Ion Ratio Lower Upper

96 100

61 237.9 130.1 241.7

63 527.7 91.4 169.8#



#14

Carbon disulfide

Concen: 0.098 ug/L

RT: 2.39 min Scan# 403

Delta R.T. 0.08 min

Lab File: VV015681.D

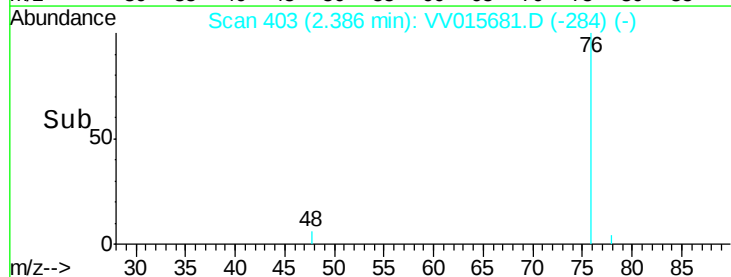
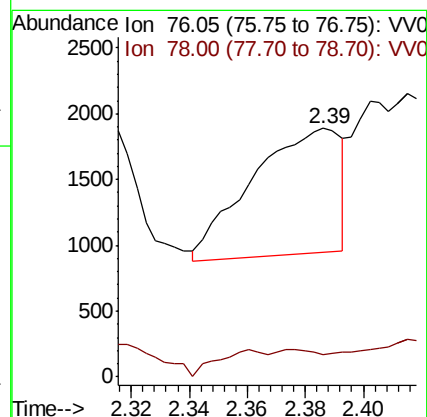
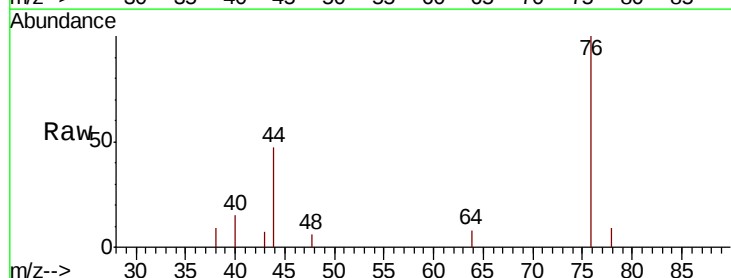
Acq: 24 Apr 2020 18:04

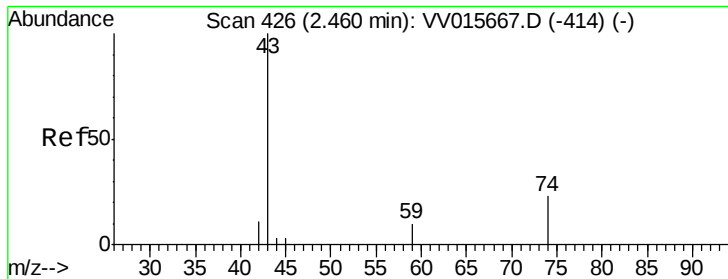
Tgt Ion: 76 Resp: 2030

Ion Ratio Lower Upper

76 100

78 9.1 7.4 11.0





#15

Methyl Acetate

Concen: 0.246 ug/L

RT: 2.45 min Scan# 423

Delta R.T. -0.01 min

Lab File: VV015681.D

Acq: 24 Apr 2020 18:04

Instrument :

MSVOA_V

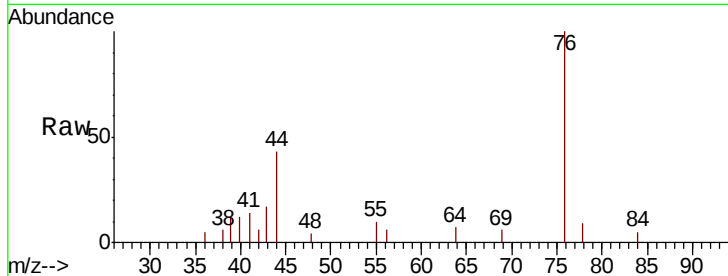
ClientSampled :

Tot Ion: 43 Resp: 855

Ion Ratio Lower Upper

43 100

74 0.0 16.3 24.5#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

2.45

400

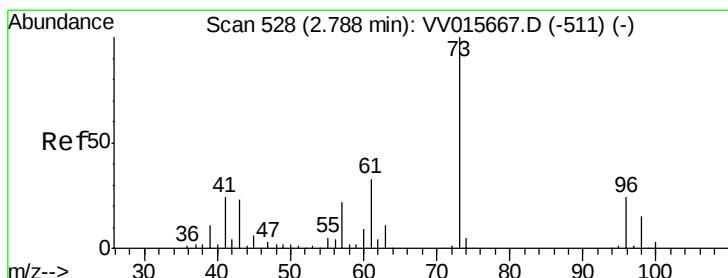
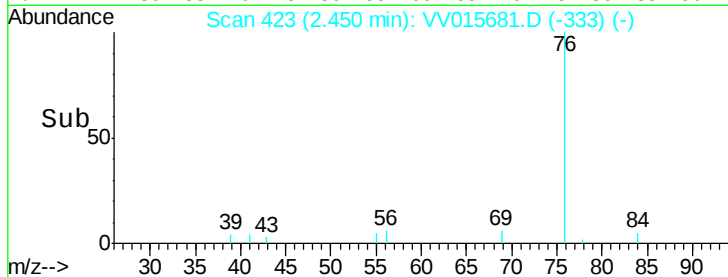
300

200

100

0

Time-->



#17

Methyl tert-butyl Ether

Concen: 0.295 ug/L

RT: 2.79 min Scan# 528

Delta R.T. 0.00 min

Lab File: VV015681.D

Acq: 24 Apr 2020 18:04

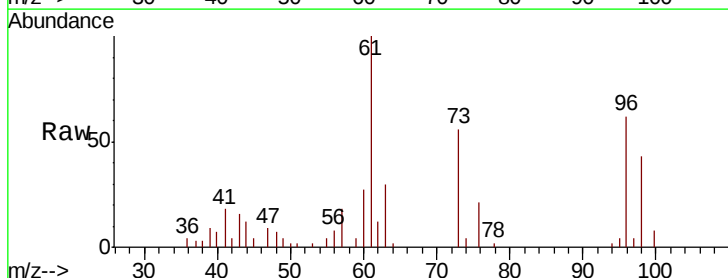
Tgt Ion: 73 Resp: 6060

Ion Ratio Lower Upper

73 100

43 31.6 20.1 30.1#

57 32.3 17.8 26.8#



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

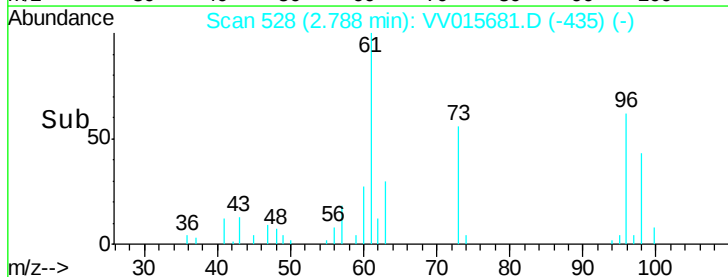
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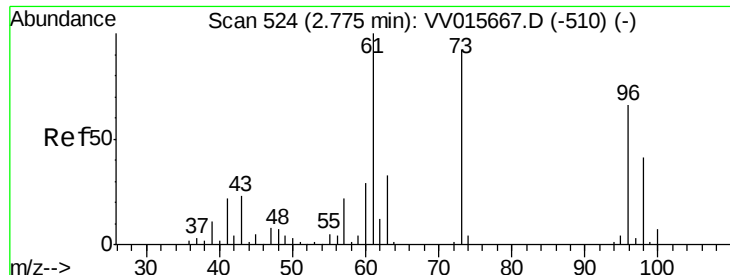
2000

1000

0

Time-->

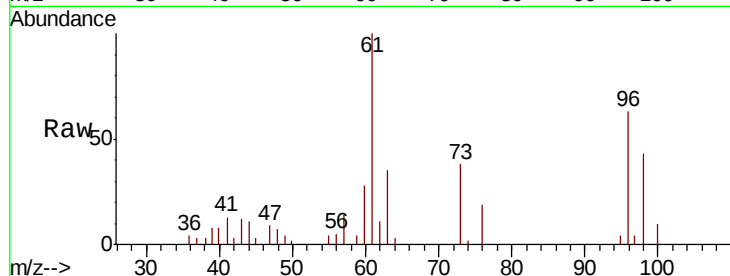




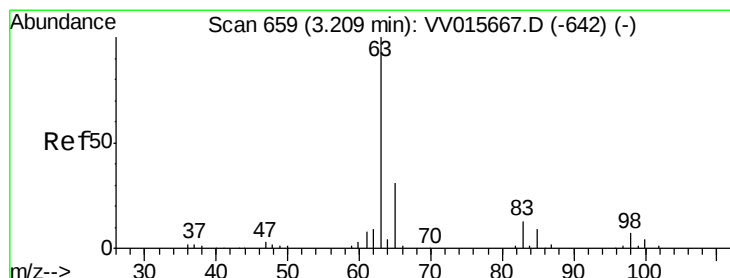
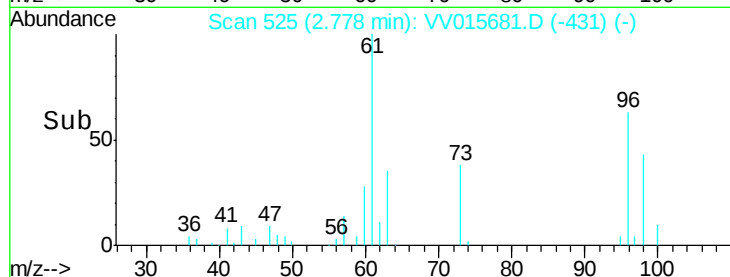
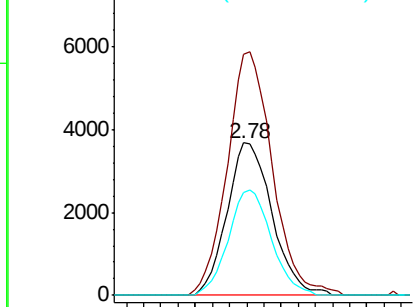
#18
trans-1,2-Dichloroethene
Concen: 0.825 ug/L
RT: 2.78 min Scan# 525
Delta R.T. 0.00 min
Lab File: VV015681.D
Acq: 24 Apr 2020 18:04

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 96 Resp: 6748
Ion Ratio Lower Upper
96 100
61 158.0 105.5 195.9
98 67.2 44.2 82.0

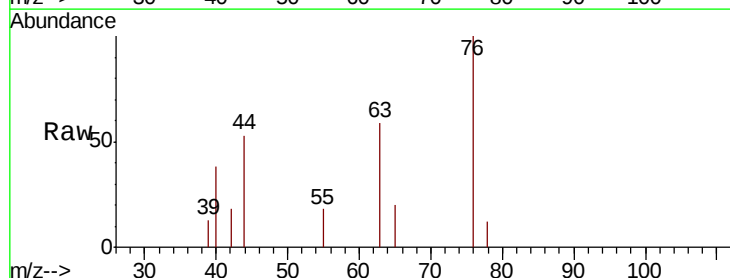


Abundance Ion 96.00 (95.70 to 96.70): VV0
Ion 61.05 (60.75 to 61.75): VV0
Ion 97.95 (97.65 to 98.65): VV0

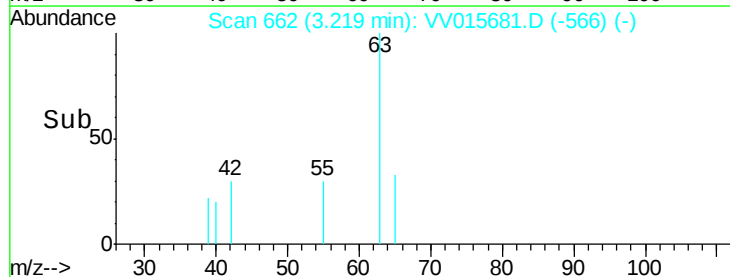
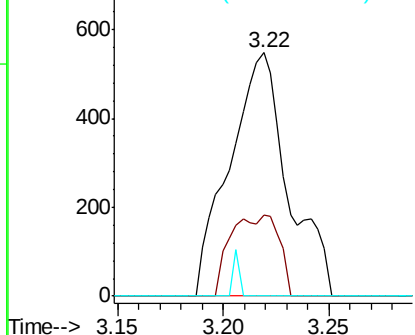


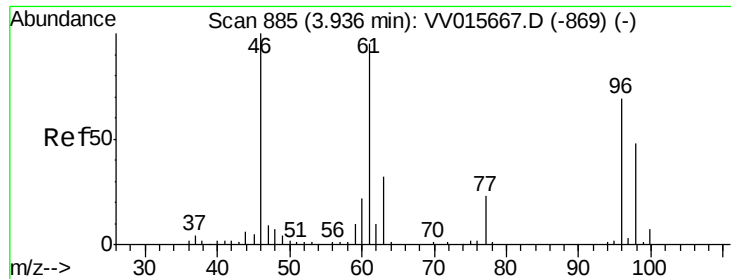
#19
1,1-Dichloroethane
Concen: 0.066 ug/L
RT: 3.22 min Scan# 662
Delta R.T. 0.01 min
Lab File: VV015681.D
Acq: 24 Apr 2020 18:04

Tgt Ion: 63 Resp: 1056
Ion Ratio Lower Upper
63 100
65 33.2 22.3 41.3
83 0.0 9.3 17.3#



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



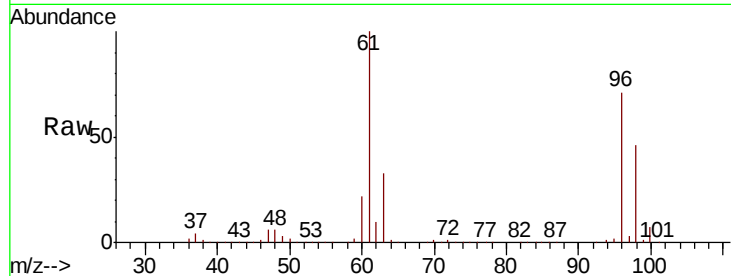


#22

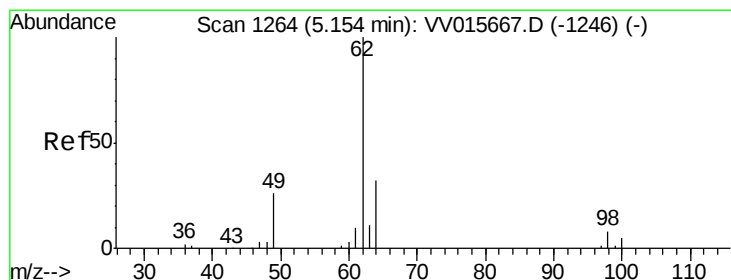
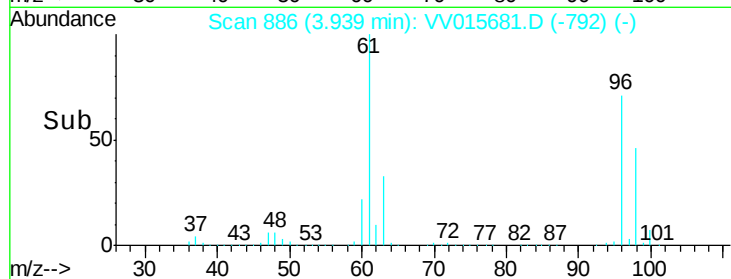
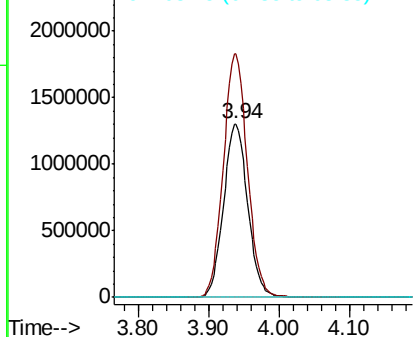
cis-1,2-Dichloroethene
 Concen: 345.161 ug/L
 RT: 3.94 min Scan# 886
 Delta R.T. 0.00 min
 Lab File: VV015681.D
 Acq: 24 Apr 2020 18:04

Instrument :
 MSVOA_V
 ClientSampleID :

Tot Ion: 96 Resp: 3122361
 Ion Ratio Lower Upper
 96 100
 61 140.1 96.4 179.0
 68 0.0 0.0 0.0



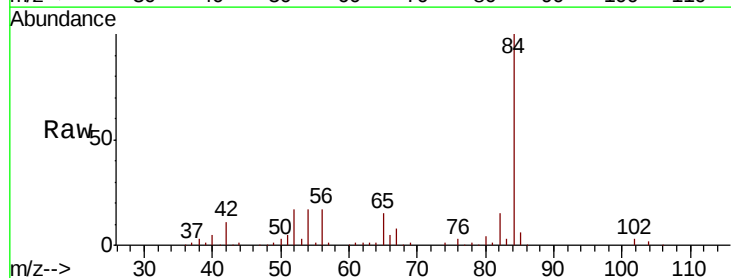
Abundance Ion 96.00 (95.70 to 96.70): VV0
 Ion 61.05 (60.75 to 61.75): VV0
 Ion 68.15 (67.85 to 68.85): VV0



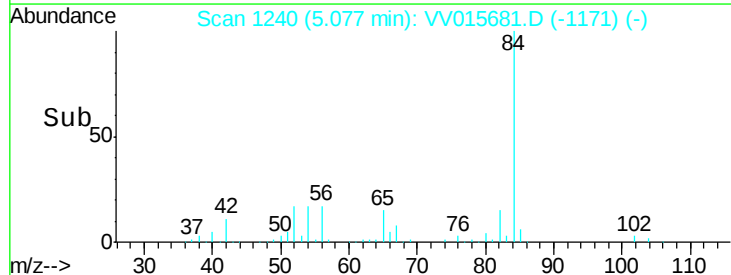
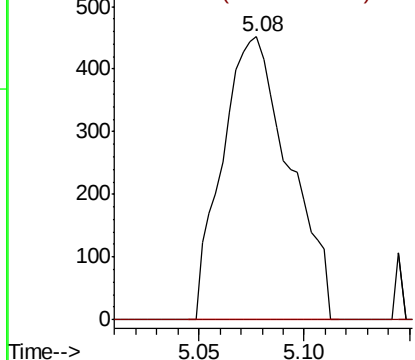
#27

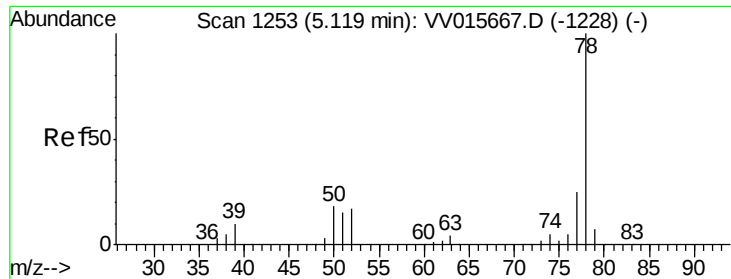
1,2-Dichloroethane
 Concen: 0.089 ug/L
 RT: 5.08 min Scan# 1240
 Delta R.T. -0.08 min
 Lab File: VV015681.D
 Acq: 24 Apr 2020 18:04

Tgt Ion: 62 Resp: 999
 Ion Ratio Lower Upper
 62 100
 98 0.0 6.3 9.5#



Abundance Ion 62.00 (61.70 to 62.70): VV0
 Ion 98.05 (97.75 to 98.75): VV0





#33

Benzene

Concen: 0.151 ug/L

RT: 5.13 min Scan# 1257

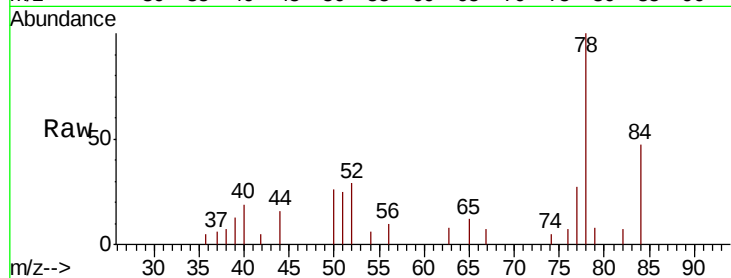
Delta R.T. 0.01 min

Lab File: VV015681.D

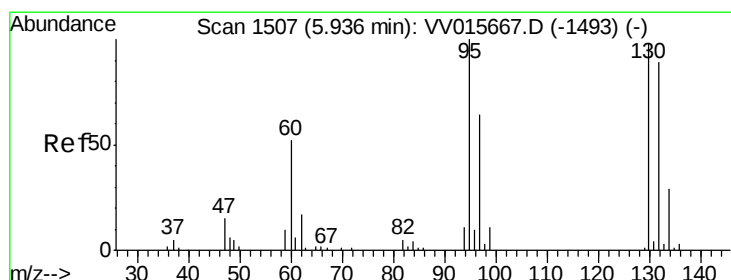
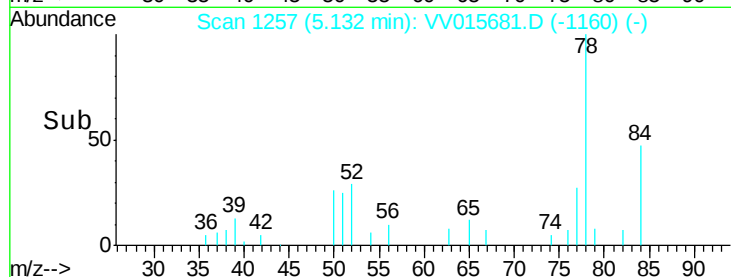
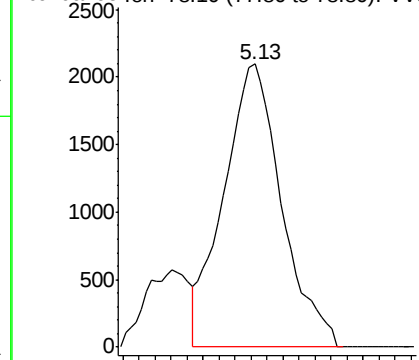
Acq: 24 Apr 2020 18:04

Instrument :
MSVOA_V
ClientSampleId :

Tgt Ion: 78 Resp: 5206



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 3.293 ug/L

RT: 5.94 min Scan# 1508

Delta R.T. 0.00 min

Lab File: VV015681.D

Acq: 24 Apr 2020 18:04

Tgt Ion: 95 Resp: 31289

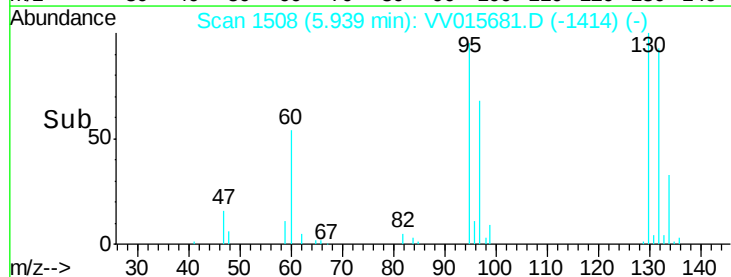
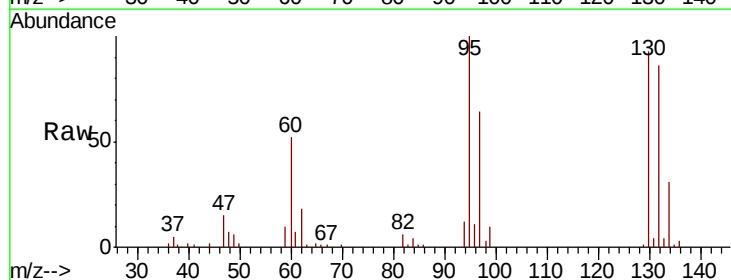
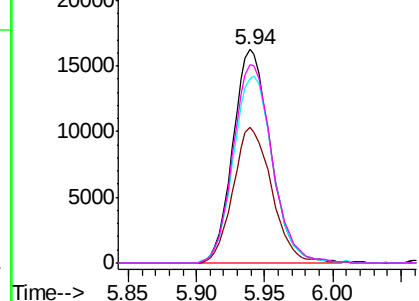
Ion	Ratio	Lower	Upper
95	100		
97	63.6	44.7	82.9
132	86.4	65.2	121.0
130	92.9	65.0	120.6

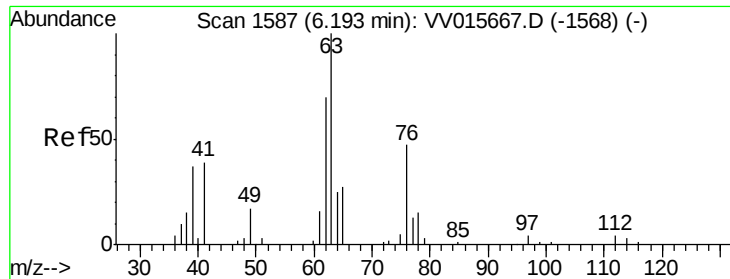
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

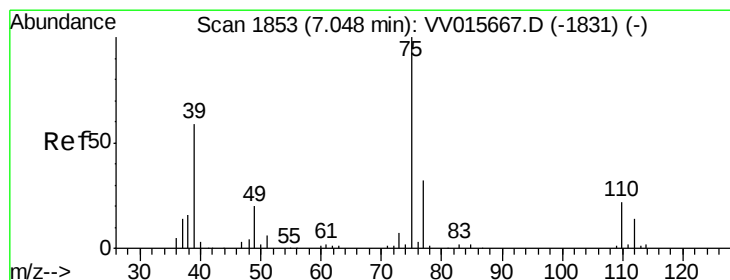
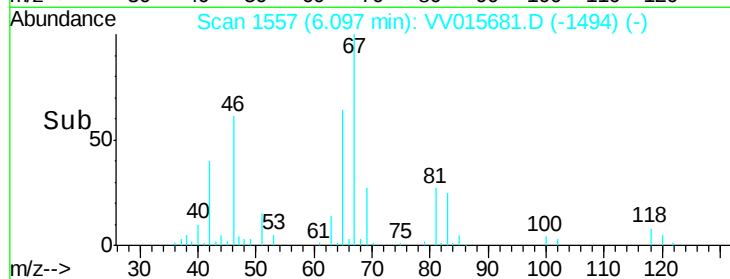
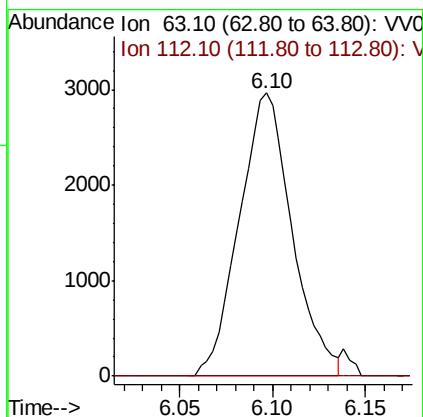
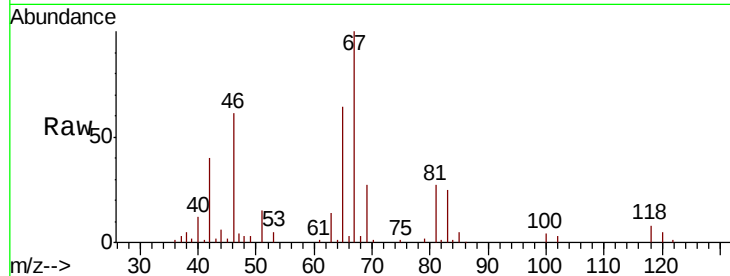




#37
 1,2-Dichloropropane
 Concen: 0.670 ug/L
 RT: 6.10 min Scan# 1557
 Delta R.T. -0.10 min
 Lab File: VV015681.D
 Acq: 24 Apr 2020 18:04

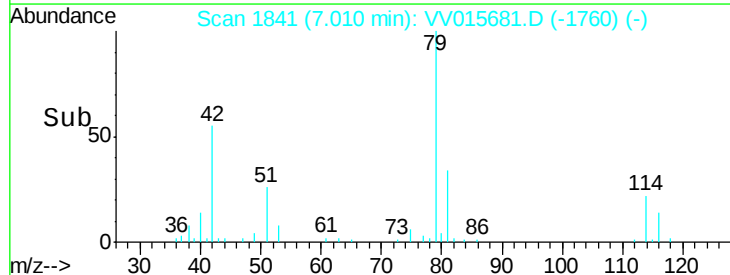
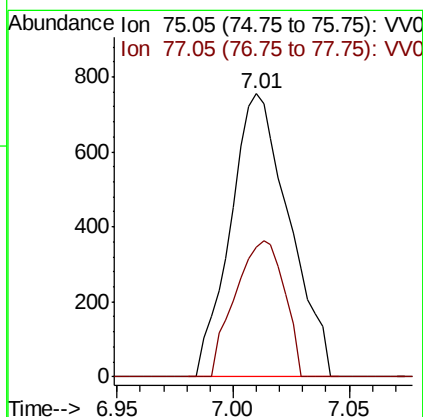
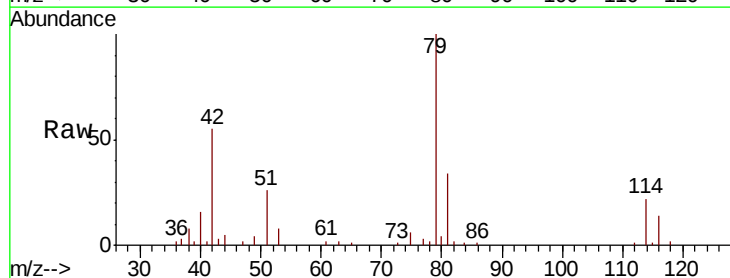
Instrument :
 MSVOA_V
 ClientSampleId :

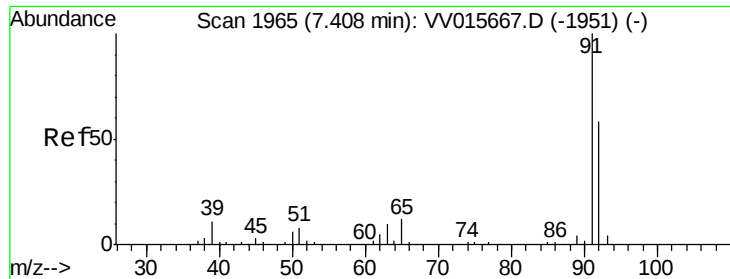
Tot Ion: 63 Resp: 5861
 Ion Ratio Lower Upper
 63 100
 112 0.0 3.6 5.4#



#39
 cis-1,3-Dichloropropene
 Concen: 0.109 ug/L
 RT: 7.01 min Scan# 1841
 Delta R.T. -0.04 min
 Lab File: VV015681.D
 Acq: 24 Apr 2020 18:04

Tgt Ion: 75 Resp: 1328
 Ion Ratio Lower Upper
 75 100
 77 45.7 22.3 41.5#





#42

Toluene

Concen: 0.114 ug/L

RT: 7.42 min Scan# 1968

Delta R.T. 0.01 min

Lab File: VV015681.D

Acq: 24 Apr 2020 18:04

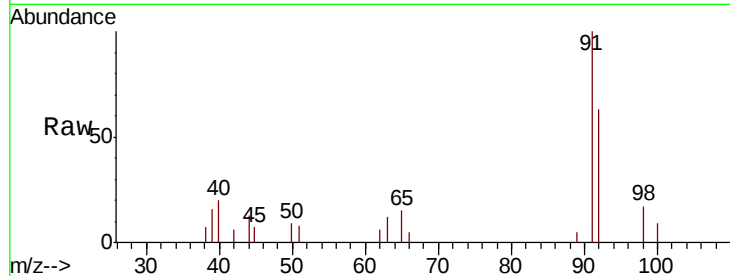
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 4200

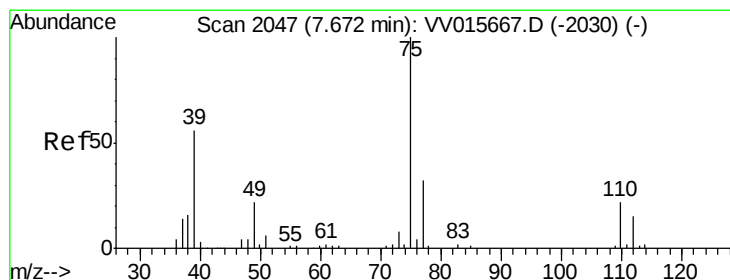
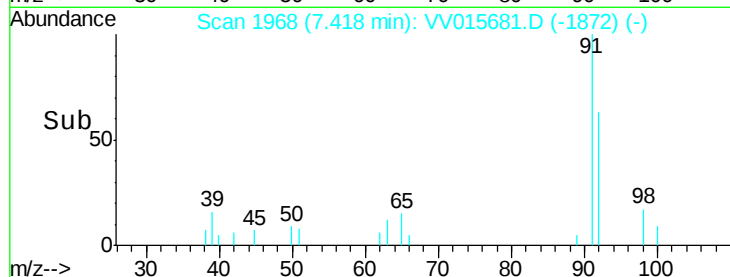
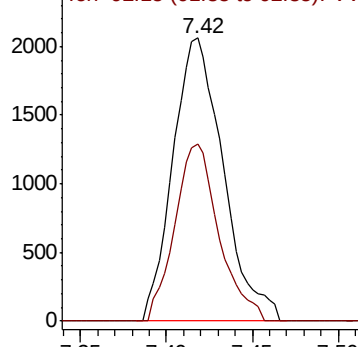
Ion Ratio Lower Upper

91 100

92 62.7 40.7 75.7



Abundance Ion 91.15 (90.85 to 91.85): VV0
Ion 92.15 (91.85 to 92.85): VV0



#44

trans-1,3-Dichloropropene

Concen: 0.067 ug/L

RT: 7.64 min Scan# 2037

Delta R.T. -0.03 min

Lab File: VV015681.D

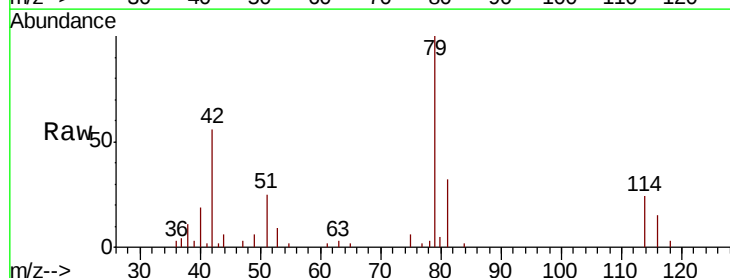
Acq: 24 Apr 2020 18:04

Tgt Ion: 75 Resp: 686

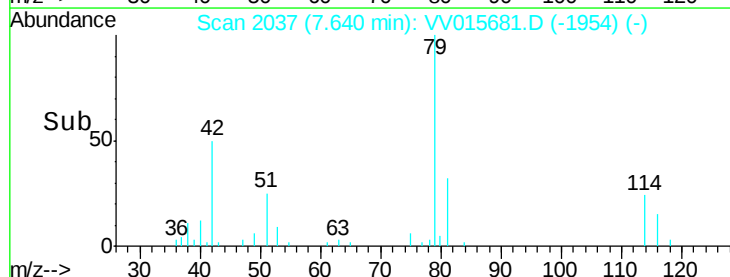
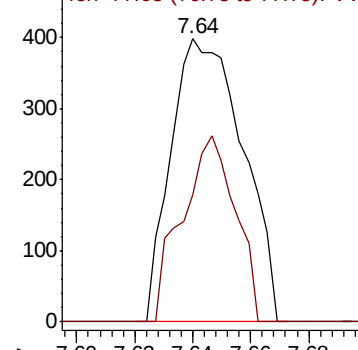
Ion Ratio Lower Upper

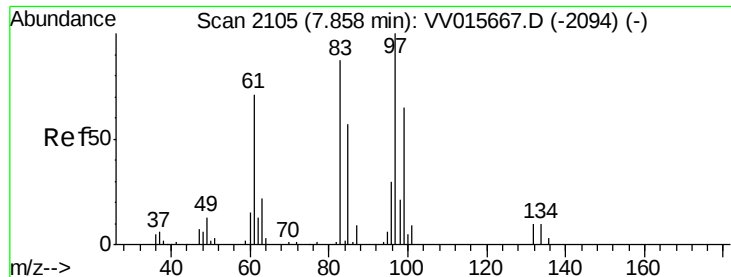
75 100

77 45.0 21.8 40.6#



Abundance Ion 75.05 (74.75 to 75.75): VV0
Ion 77.05 (76.75 to 77.75): VV0

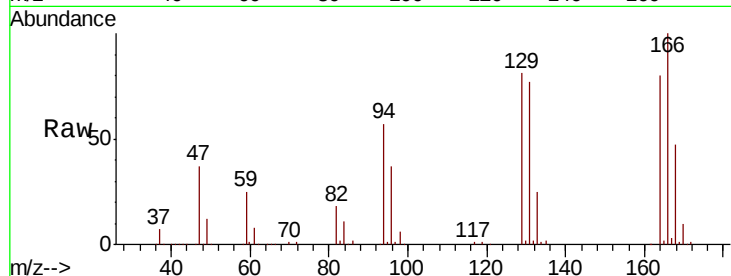




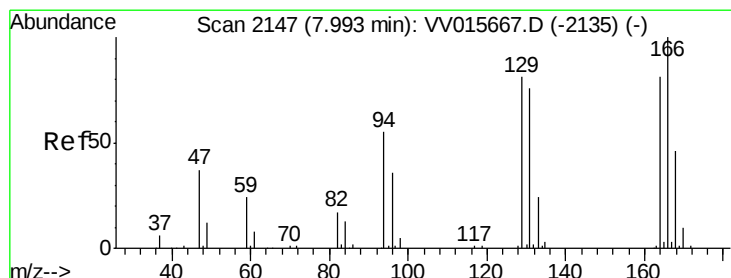
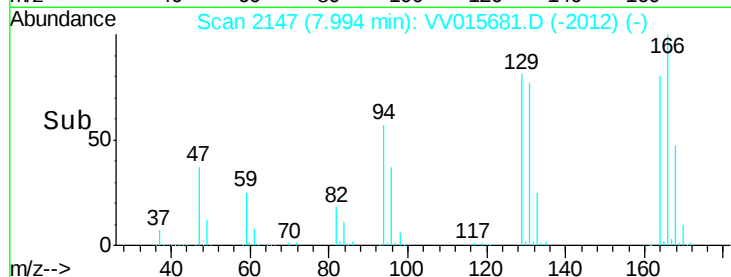
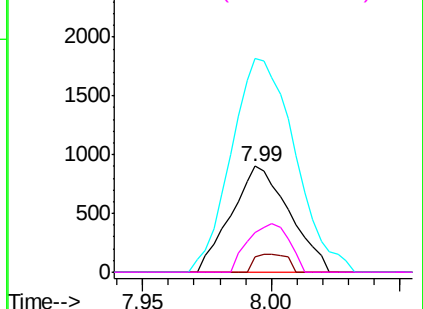
#45
 1,1,2-Trichloroethane
 Concen: 0.238 ug/L
 RT: 7.99 min Scan# 2147
 Delta R.T. 0.14 min
 Lab File: VV015681.D
 Acq: 24 Apr 2020 18:04

Instrument :
 MSVOA_V
 ClientSampled :

Tot Ion: 97 Resp: 1416
 Ion Ratio Lower Upper
 97 100
 99 14.0 45.4 84.4#
 83 202.1 61.3 113.9#
 85 36.9 38.4 71.4#



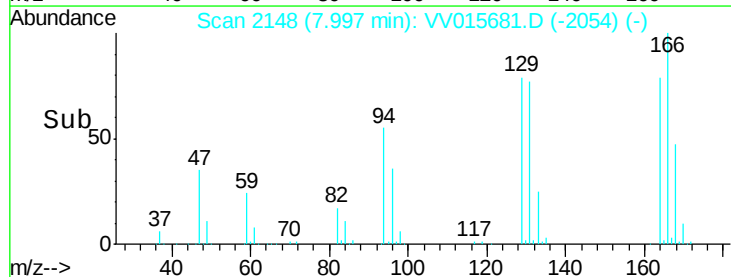
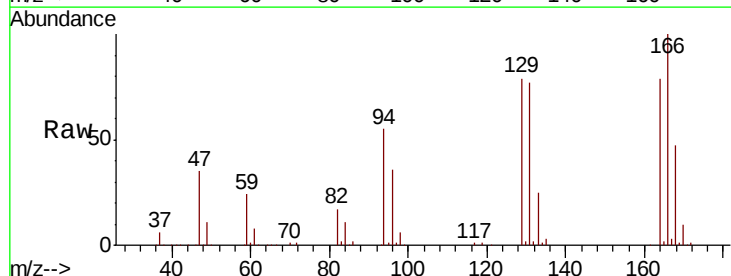
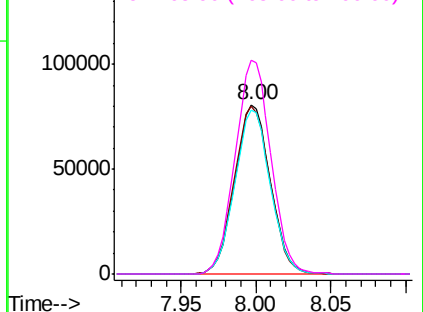
Abundance Ion 96.95 (96.65 to 97.65): VV0
 Ion 99.05 (98.75 to 99.75): VV0
 Ion 82.95 (82.65 to 83.65): VV0
 Ion 85.00 (84.70 to 85.70): VV0

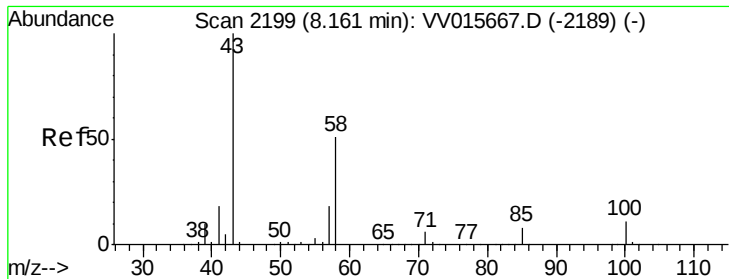


#47
 Tetrachloroethene
 Concen: 19.505 ug/L
 RT: 8.00 min Scan# 2148
 Delta R.T. 0.00 min
 Lab File: VV015681.D
 Acq: 24 Apr 2020 18:04

Tgt Ion: 164 Resp: 133425
 Ion Ratio Lower Upper
 164 100
 129 99.4 66.7 123.9
 131 96.9 66.6 123.6
 166 126.3 85.3 158.5

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





#48

2-Hexanone

Concen: 0.920 ug/L

RT: 8.16 min Scan# 2200

Delta R.T. 0.00 min

Lab File: VV015681.D

Acq: 24 Apr 2020 18:04

Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 43 Resp: 3725

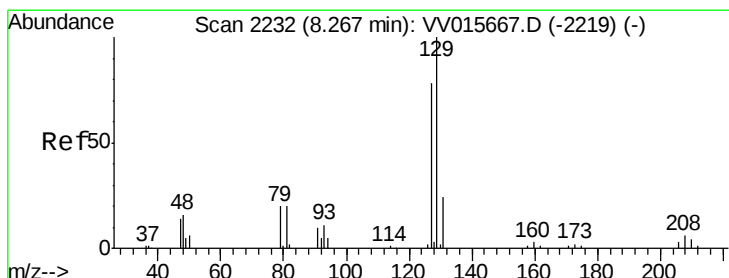
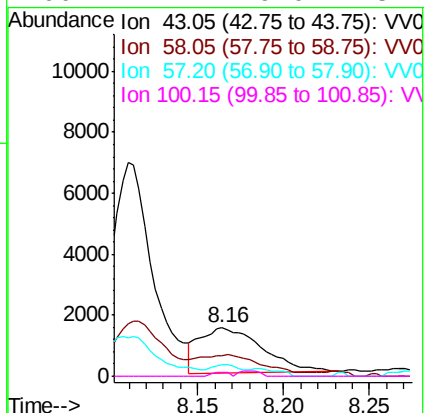
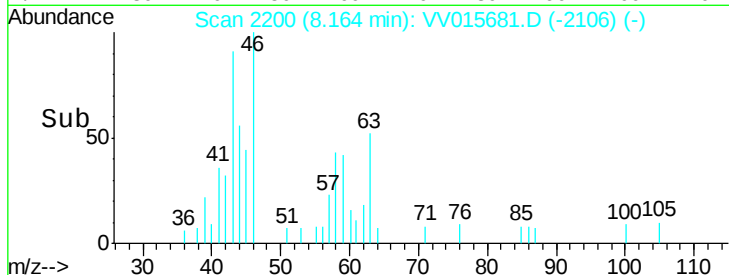
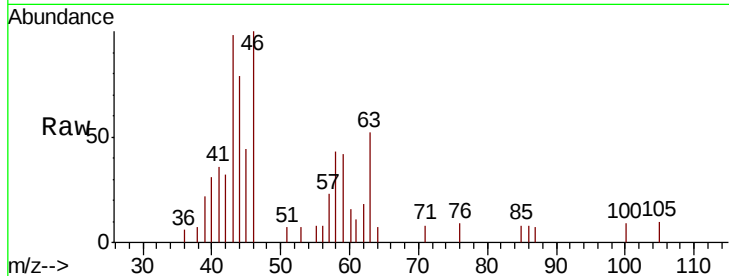
Ion Ratio Lower Upper

43 100

58 49.2 41.1 61.7

57 5.0 15.0 22.4#

100 2.7 9.0 13.4#



#49

Dibromochloromethane

Concen: 21.082 ug/L

RT: 8.00 min Scan# 2148

Delta R.T. -0.27 min

Lab File: VV015681.D

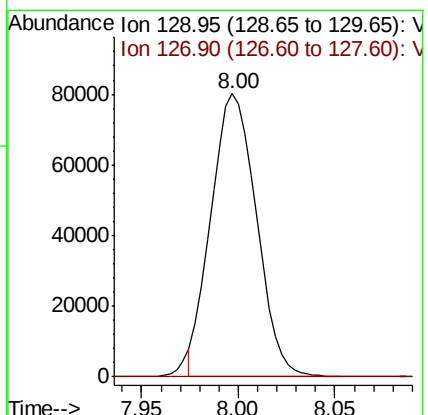
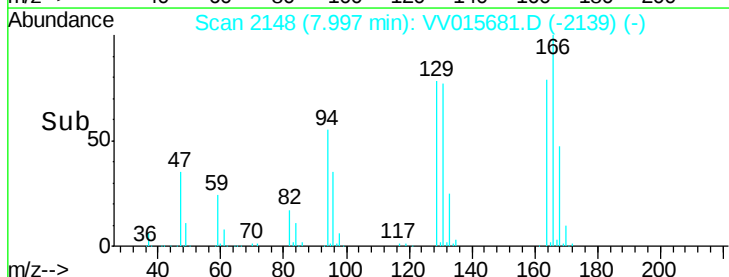
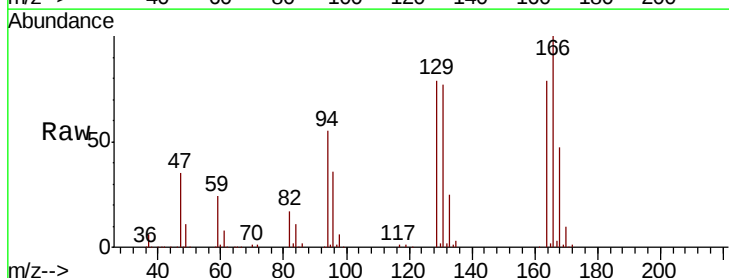
Acq: 24 Apr 2020 18:04

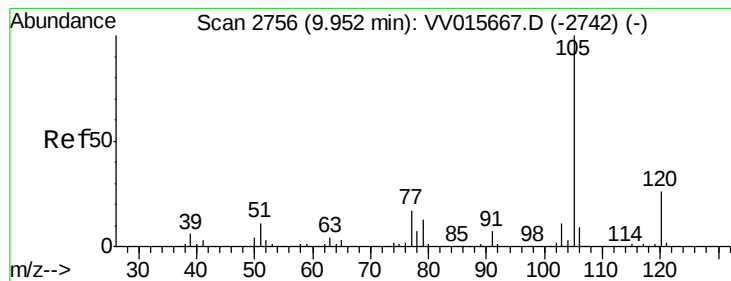
Tgt Ion: 129 Resp: 130033

Ion Ratio Lower Upper

129 100

127 0.0 52.6 97.8#





#56

Isopropylbenzene

Concen: 0.085 ug/L

RT: 9.96 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV015681.D

Acq: 24 Apr 2020 18:04

Instrument :

MSVOA_V

ClientSampleId :

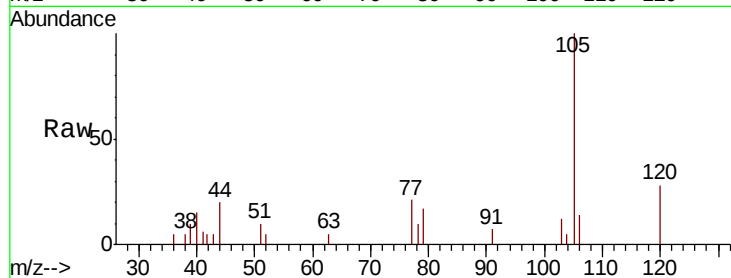
Tot Ion:105 Resp: 3613

Ion Ratio Lower Upper

105 100

120 25.5 20.7 31.1

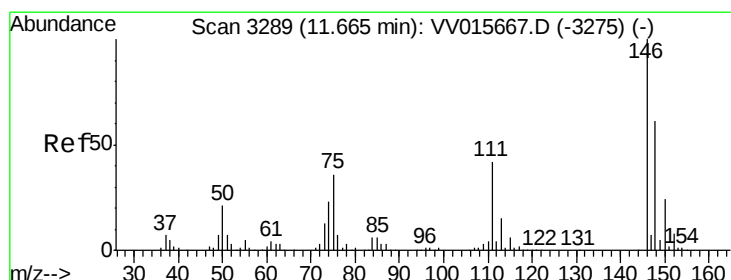
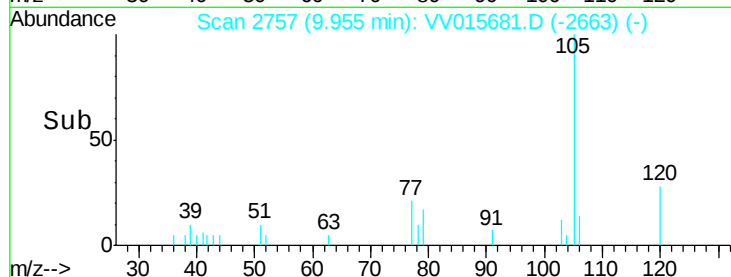
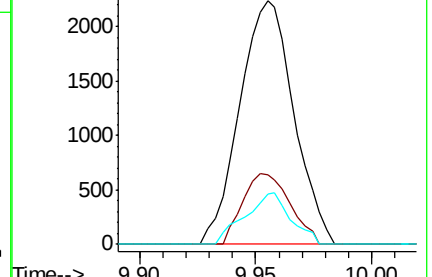
77 18.0 13.9 20.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#65

1,2-Dichlorobenzene

Concen: 0.125 ug/L

RT: 11.67 min Scan# 3289

Delta R.T. 0.00 min

Lab File: VV015681.D

Acq: 24 Apr 2020 18:04

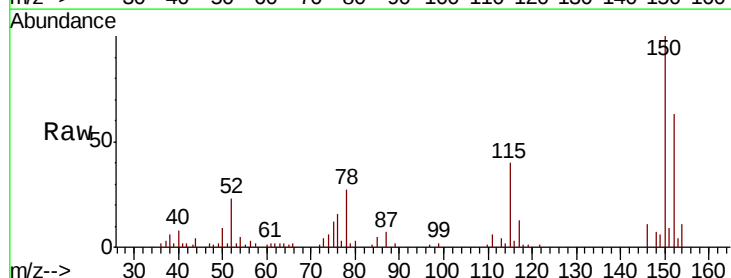
Tgt Ion:146 Resp: 2063

Ion Ratio Lower Upper

146 100

111 53.9 34.7 52.1#

148 59.6 51.3 76.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

