

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV070220\
 Data File : VV017311.D
 Acq On : 02 Jul 2020 15:18
 Operator : SY/MD
 Sample : L3154-08
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 H4295

Quant Time: Jul 03 01:18:45 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jul 03 01:13:36 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	174294	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	167950	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	87639	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	41723	3.99	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	79.80%
7) Chloroethane-d5	1.58	69	39020	5.13	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	102.60%
11) 1,1-Dichloroethene-d2	2.13	63	67356	3.38	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	67.60%
20) 2-Butanone-d5	3.93	46	129513	48.58	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	97.16%
24) Chloroform-d	4.38	84	109316	4.88	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.60%
26) 1,2-Dichloroethane-d4	5.06	65	61367	5.17	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	103.40%
32) Benzene-d6	5.08	84	192659	4.42	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	88.40%
36) 1,2-Dichloropropane-d6	6.10	67	59286	4.54	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.80%
41) Toluene-d8	7.34	98	175899	4.30	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	86.00%
45) trans-1,3-Dichloropropene-	7.65	79	22367	4.12	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.40%
48) 2-Hexanone-d5	8.11	63	93055	44.95	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	89.90%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	45170	5.21	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	104.20%
65) 1,2-Dichlorobenzene-d4	11.65	152	76160	4.70	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	94.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	130186	11.383	ug/L	96
8) Chloroethane	1.49	64	259305	41.025	ug/L #	51
12) 1,1-Dichloroethene	2.13	96	832	0.099	ug/L #	1
13) Acetone	2.15	43	7551	5.603	ug/L	59
14) Carbon disulfide	2.32	76	2691	0.107	ug/L #	61
15) Methyl Acetate	2.51	43	63950	19.408	ug/L #	52
16) Methylene chloride	2.53	84	1436	0.160	ug/L #	46
17) Methyl tert-butyl Ether	2.79	73	1177831	56.077	ug/L	97
19) 1,1-Dichloroethane	3.21	63	15301	0.768	ug/L	95
22) cis-1,2-Dichloroethene	3.94	96	18296	1.509	ug/L #	98
27) 1,2-Dichloroethane	5.13	62	2152	0.159	ug/L	96
30) Cyclohexane	4.71	56	35016	1.829	ug/L	98
33) Benzene	5.13	78	200760	4.564	ug/L	100
34) Trichloroethene	5.94	95	3705	0.288	ug/L	85
35) Methylcyclohexane	6.15	83	2588	0.129	ug/L	86
37) 1,2-Dichloropropane	6.09	63	7574	0.696	ug/L #	84
39) cis-1,3-Dichloropropene	7.01	75	2275	0.141	ug/L #	26

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QLast Update : Fri Jul 03 01:13:36 2020
Response via : Initial Calibration

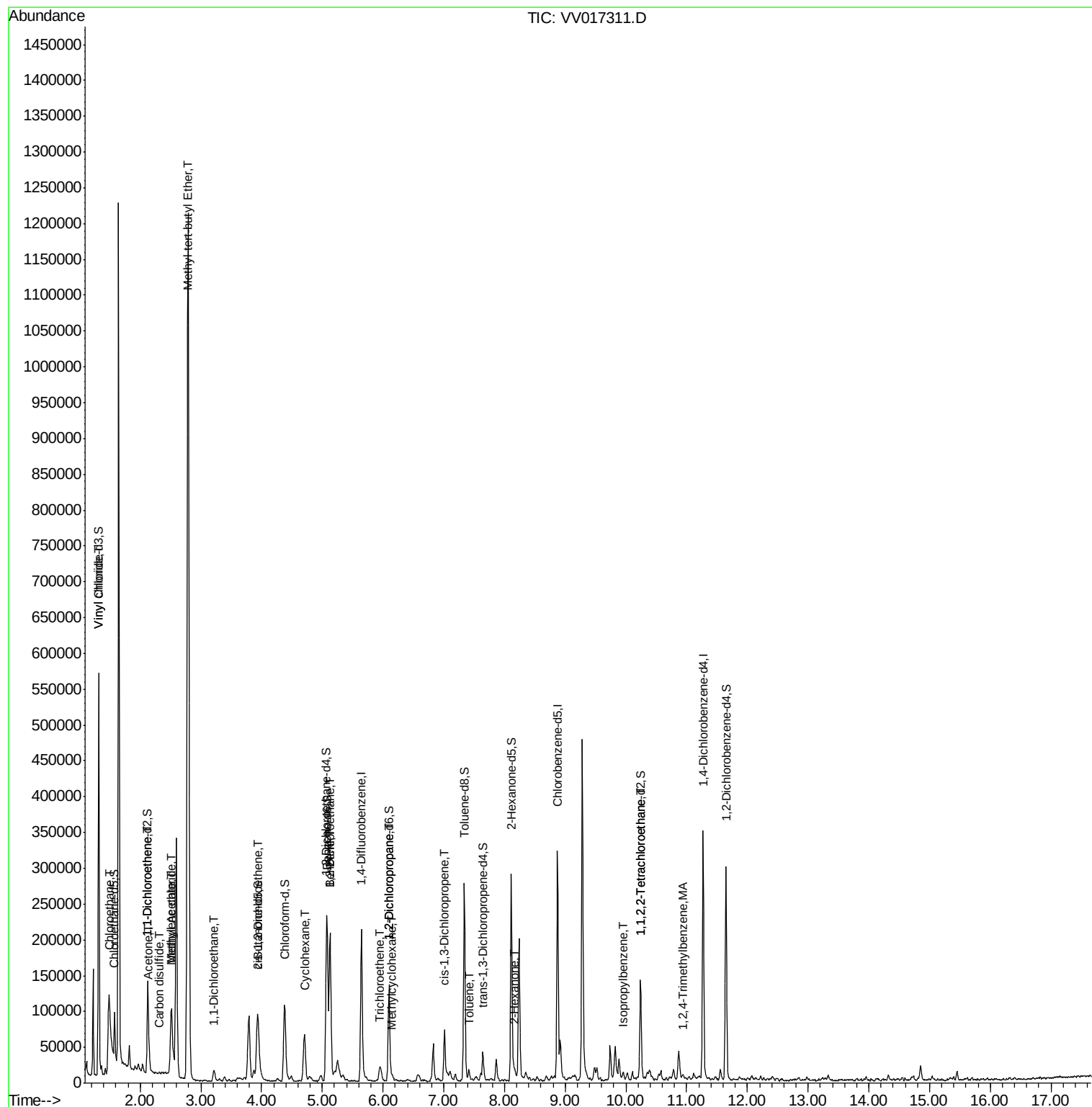
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.41	91	10983	0.215	ug/L	95
44) 1,2,4-Trimethylbenzene	10.94	105	3463	0.074	ug/L	89
50) 2-Hexanone	8.17	43	5077	1.135	ug/L #	74
58) Isopropylbenzene	9.95	105	4657	0.085	ug/L	97
60) 1,1,2,2-Tetrachloroethane	10.24	83	2578	0.323	ug/L #	70

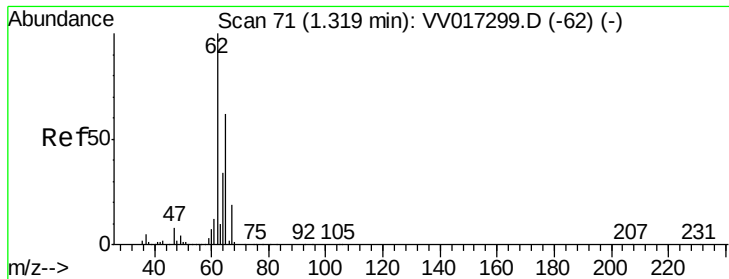
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#5

Vinyl chloride

Concen: 11.383 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VV017311.D

Acq: 02 Jul 2020 15:18

Instrument :

MSVOA_V

ClientSampleId :

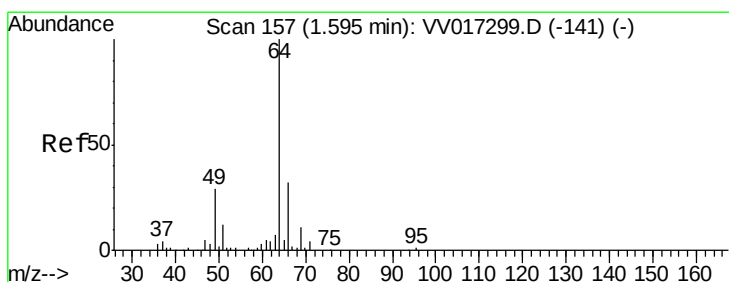
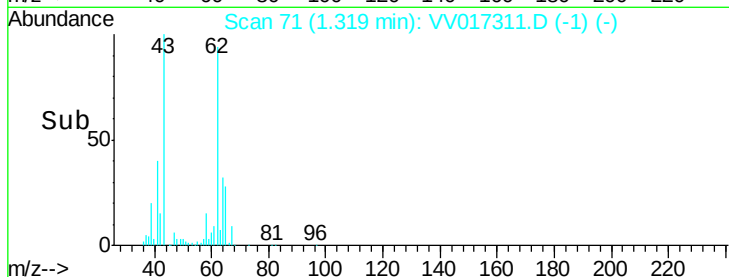
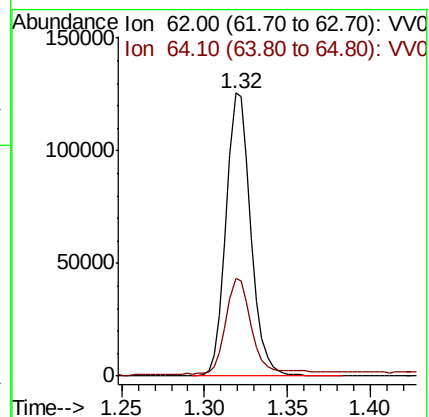
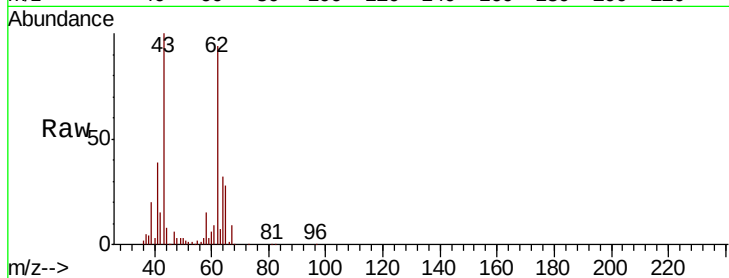
H4295

Tot Ion: 62 Resp: 130186

Ion Ratio Lower Upper

62 100

64 34.4 22.5 41.7



#8

Chloroethane

Concen: 41.025 ug/L

RT: 1.49 min Scan# 124

Delta R.T. -0.11 min

Lab File: VV017311.D

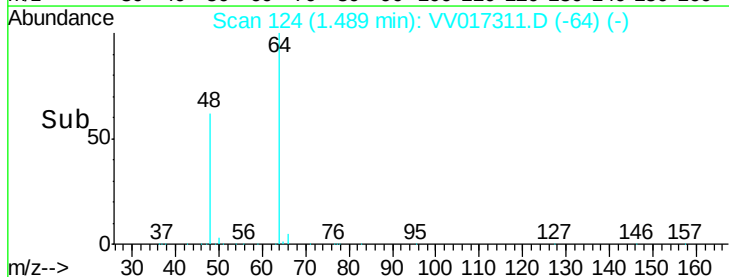
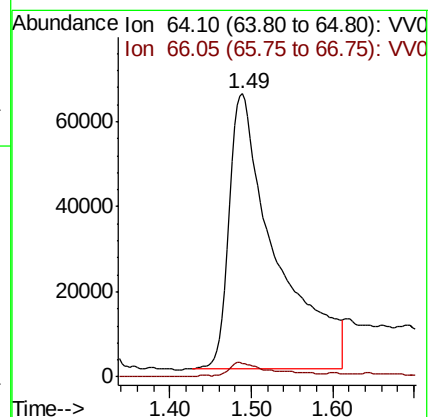
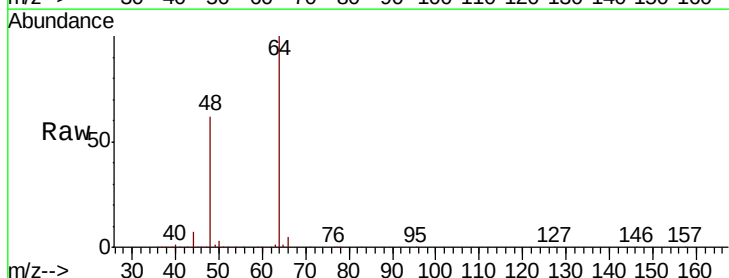
Acq: 02 Jul 2020 15:18

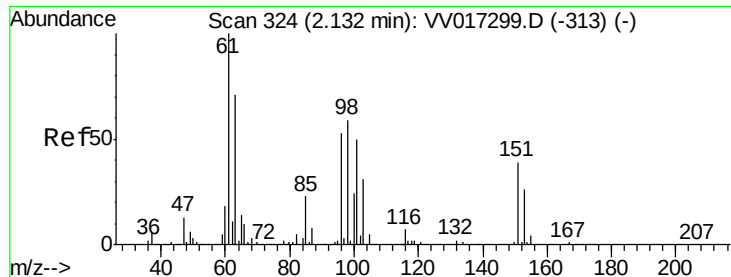
Tgt Ion: 64 Resp: 259305

Ion Ratio Lower Upper

64 100

66 4.8 22.8 42.4#





#12

1,1-Dichloroethene

Concen: 0.099 ug/L

RT: 2.13 min Scan# 322

Delta R.T. -0.01 min

Lab File: VV017311.D

Acq: 02 Jul 2020 15:18

Instrument :

MSVOA_V

ClientSampled :

H4295

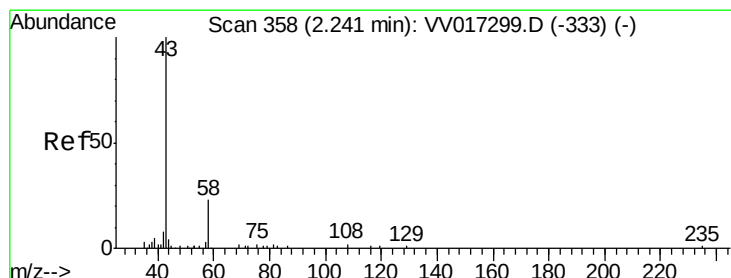
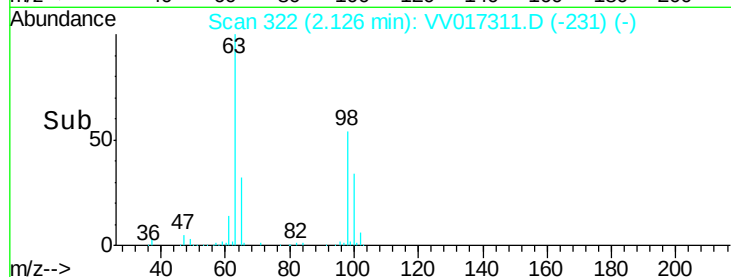
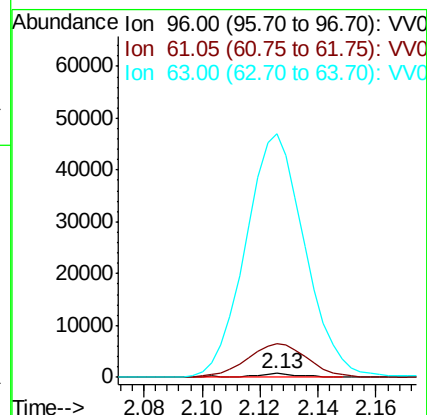
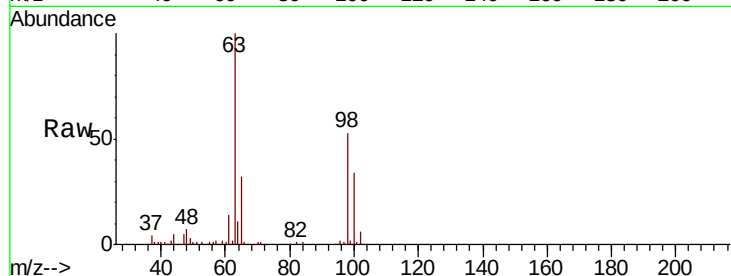
Tot Ion: 96 Resp: 832

Ion Ratio Lower Upper

96 100

61 905.5 125.0 232.2#

63 6516.5 109.8 203.8#



#13

Acetone

Concen: 5.603 ug/L

RT: 2.15 min Scan# 329

Delta R.T. -0.09 min

Lab File: VV017311.D

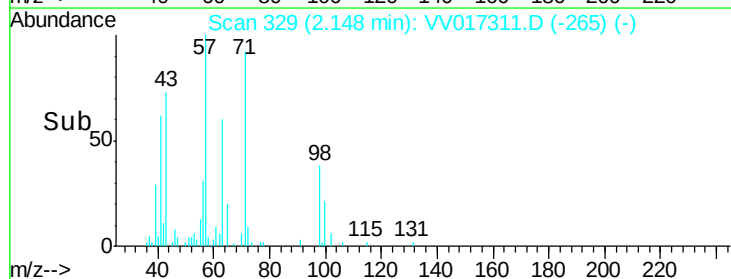
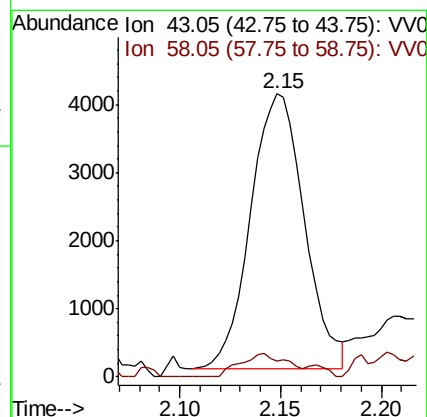
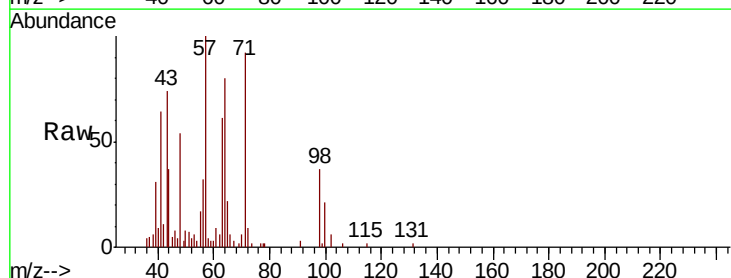
Acq: 02 Jul 2020 15:18

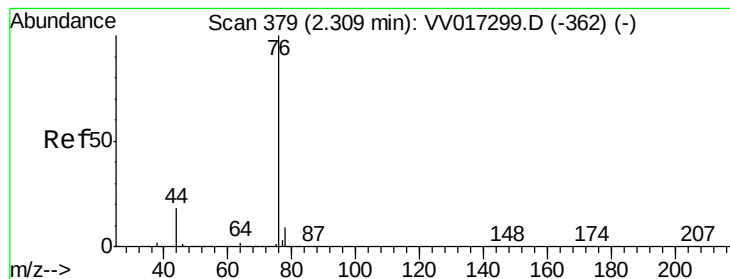
Tgt Ion: 43 Resp: 7551

Ion Ratio Lower Upper

43 100

58 7.4 0.0 58.4





#14

Carbon disulfide

Concen: 0.107 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.01 min

Lab File: VV017311.D

Acq: 02 Jul 2020 15:18

Instrument :

MSVOA_V

ClientSampled :

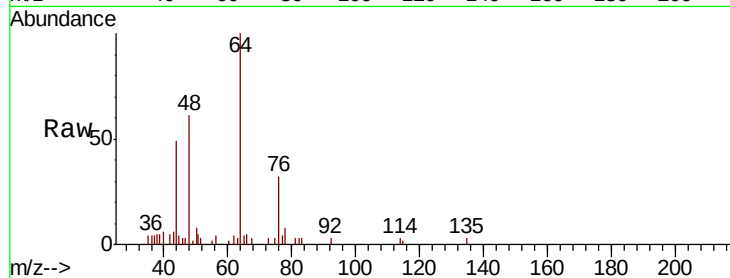
H4295

Tot Ion: 76 Resp: 2691

Ion Ratio Lower Upper

76 100

78 23.9 7.7 11.5#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0

2.32

1500

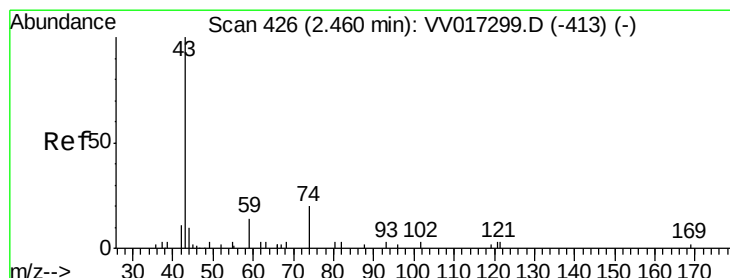
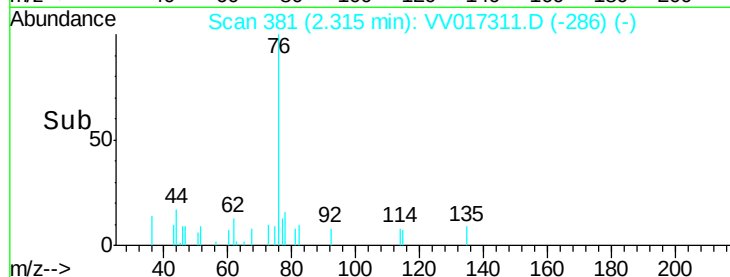
1000

500

0

2.25 2.30 2.35

Time-->



#15

Methyl Acetate

Concen: 19.408 ug/L

RT: 2.51 min Scan# 443

Delta R.T. 0.05 min

Lab File: VV017311.D

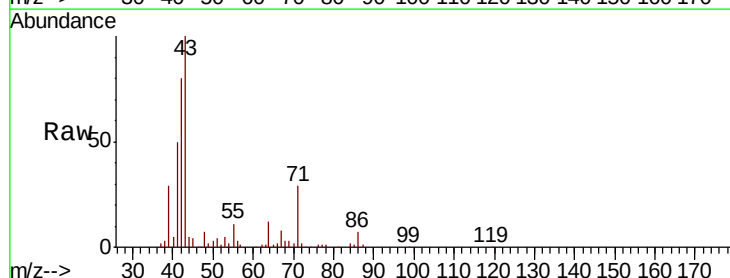
Acq: 02 Jul 2020 15:18

Tgt Ion: 43 Resp: 63950

Ion Ratio Lower Upper

43 100

74 0.4 19.1 28.7#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

2.51

30000

25000

20000

15000

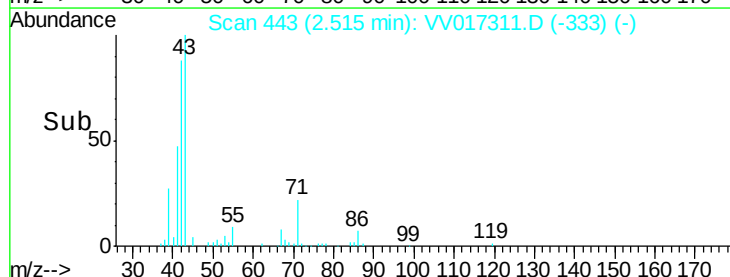
10000

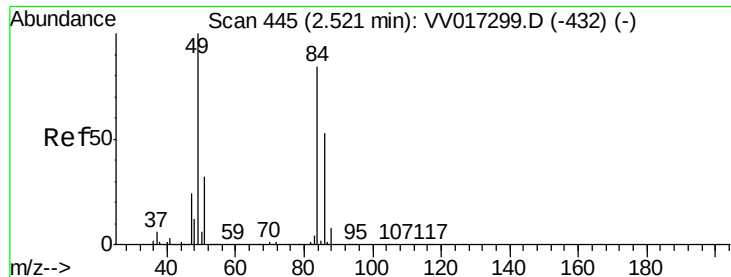
5000

0

2.45 2.50 2.55 2.60

Time-->

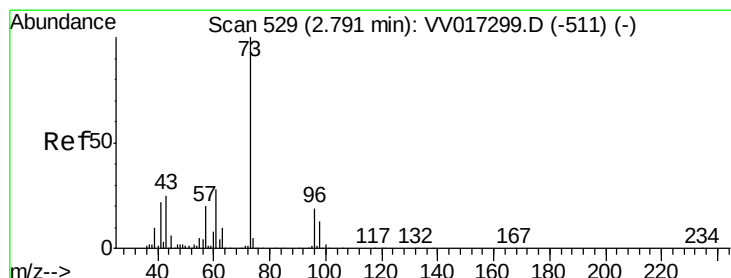
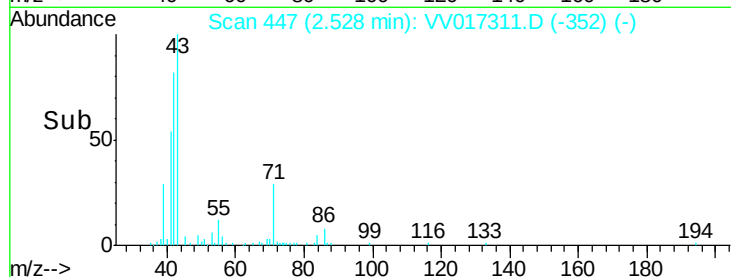
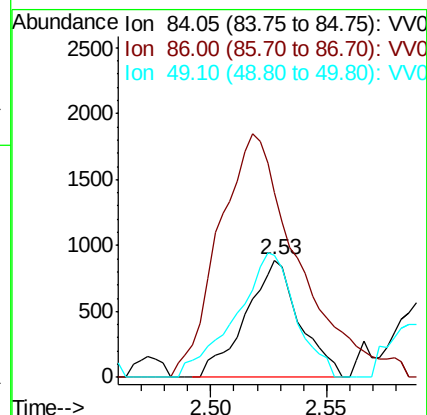
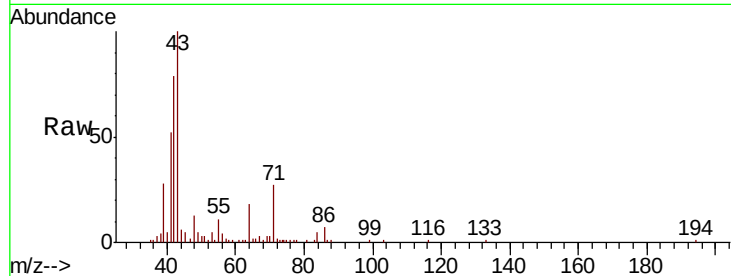




#16
Methylene chloride
Concen: 0.160 ug/L
RT: 2.53 min Scan# 447
Delta R.T. 0.01 min
Lab File: VV017311.D
Acq: 02 Jul 2020 15:18

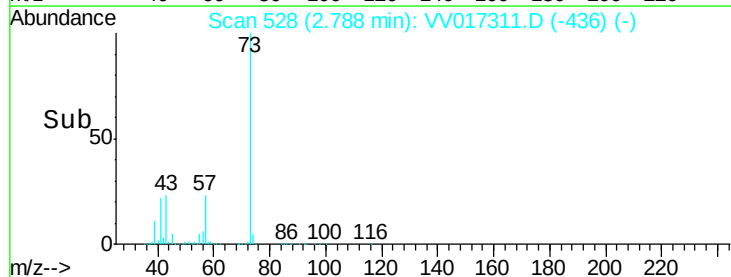
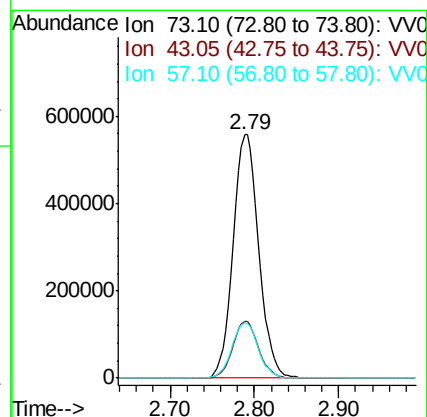
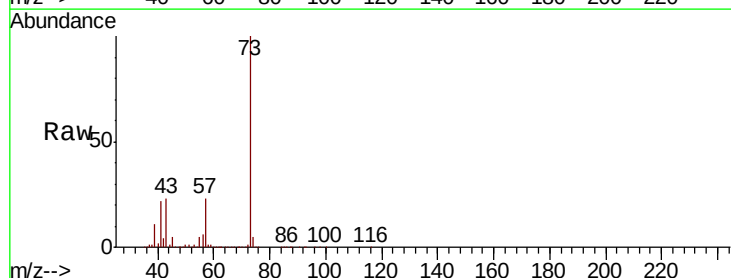
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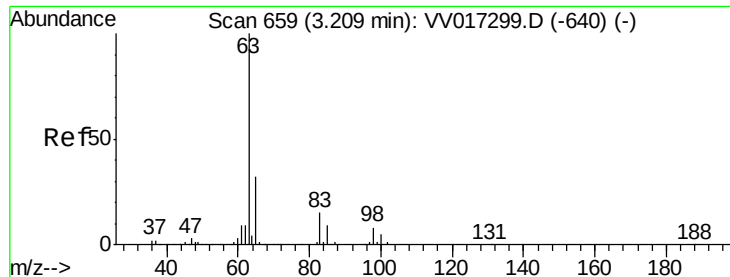
Tot Ion: 84 Resp: 1436
Ion Ratio Lower Upper
84 100
86 158.2 45.8 85.0#
49 103.8 89.6 166.4



#17
Methyl tert-butyl Ether
Concen: 56.077 ug/L
RT: 2.79 min Scan# 528
Delta R.T. -0.00 min
Lab File: VV017311.D
Acq: 02 Jul 2020 15:18

Tgt Ion: 73 Resp: 1177831
Ion Ratio Lower Upper
73 100
43 23.2 18.6 28.0
57 23.3 16.4 24.6

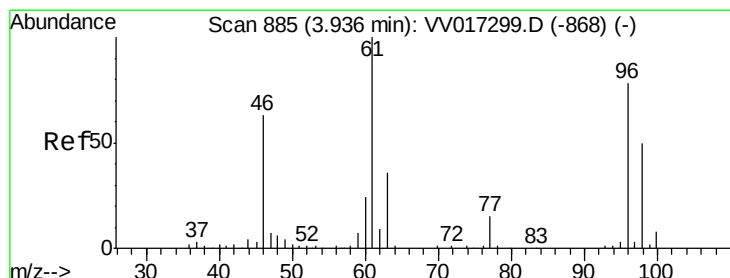
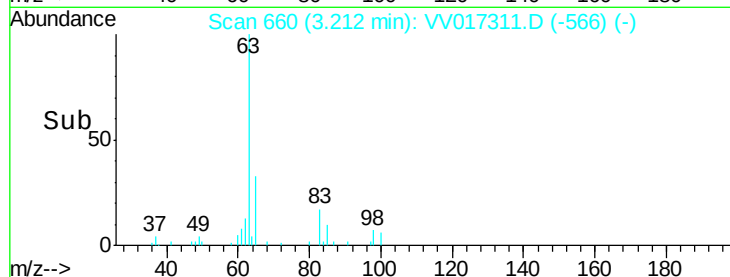
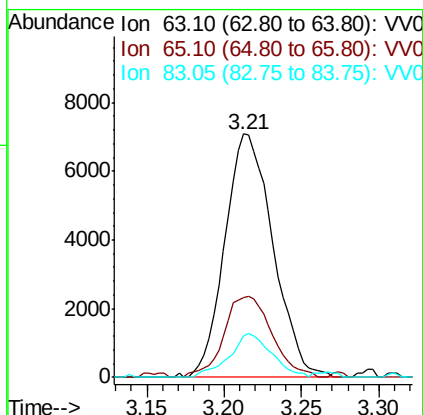
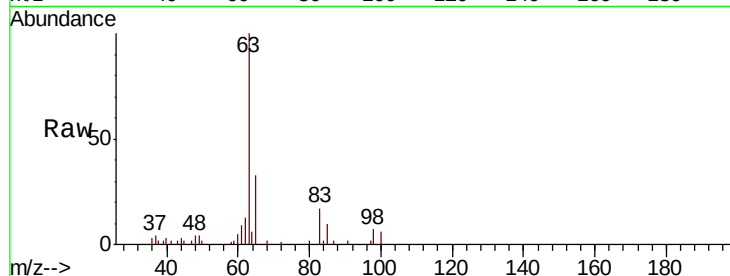




#19
 1,1-Dichloroethane
 Concen: 0.768 ug/L
 RT: 3.21 min Scan# 660
 Delta R.T. 0.00 min
 Lab File: VV017311.D
 Acq: 02 Jul 2020 15:18

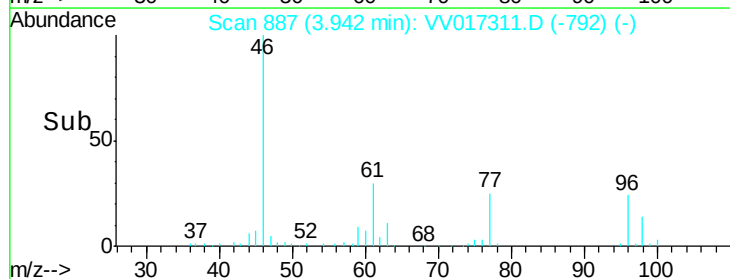
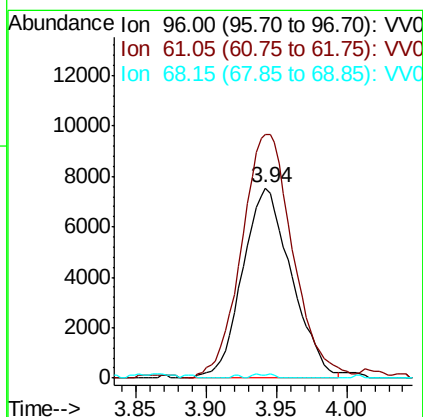
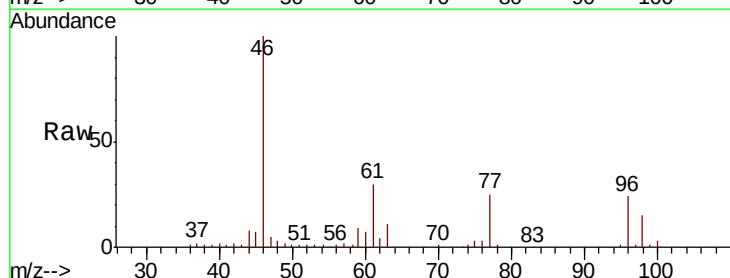
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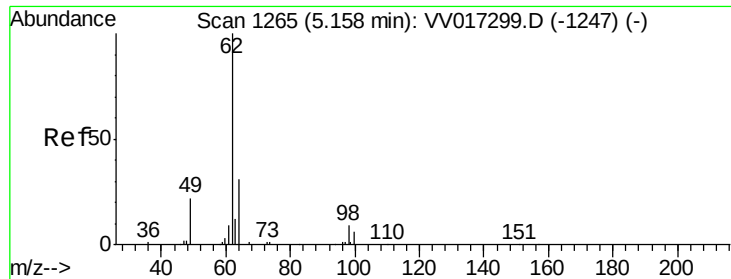
Tot Ion: 63 Resp: 15301
 Ion Ratio Lower Upper
 63 100
 65 32.9 21.8 40.4
 83 16.9 9.7 17.9



#22
 cis-1,2-Dichloroethene
 Concen: 1.509 ug/L
 RT: 3.94 min Scan# 887
 Delta R.T. 0.01 min
 Lab File: VV017311.D
 Acq: 02 Jul 2020 15:18

Tgt Ion: 96 Resp: 18296
 Ion Ratio Lower Upper
 96 100
 61 128.1 91.0 169.0
 68 1.7 0.0 0.0#

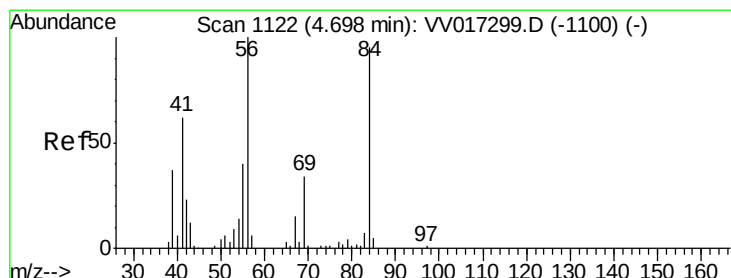
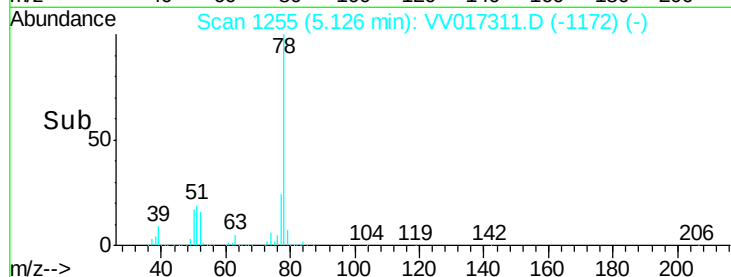
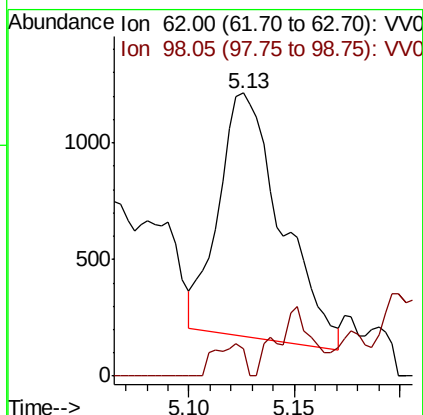
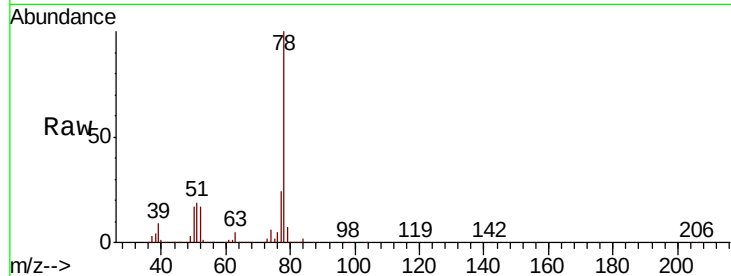




#27
 1,2-Dichloroethane
 Concen: 0.159 ug/L
 RT: 5.13 min Scan# 1255
 Delta R.T. -0.03 min
 Lab File: VV017311.D
 Acq: 02 Jul 2020 15:18

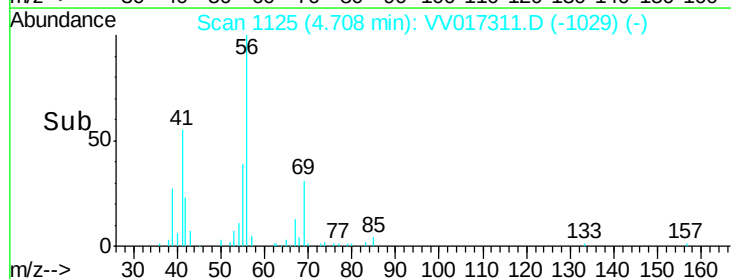
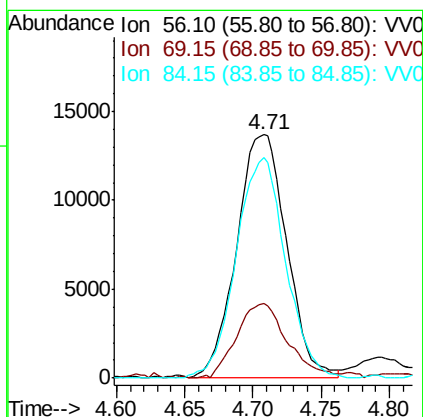
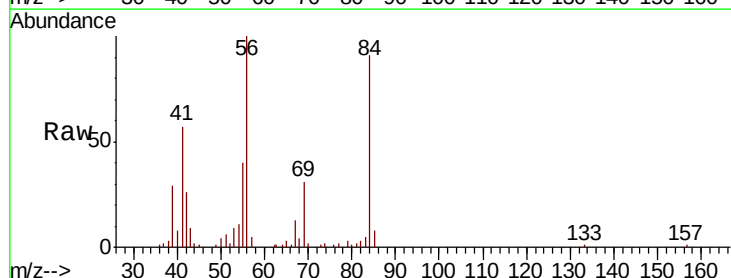
Instrument :
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 ClientSampled :
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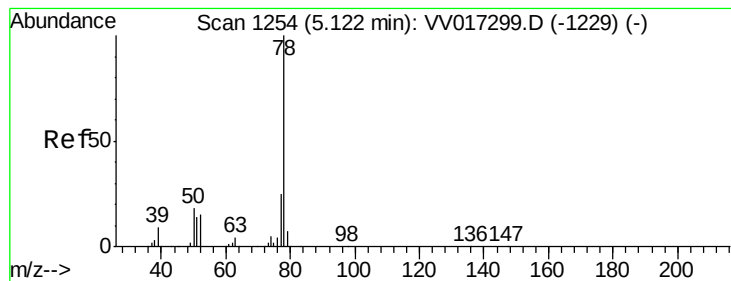
Tot Ion: 62 Resp: 2152
 Ion Ratio Lower Upper
 62 100
 98 9.8 6.7 10.1



#30
 Cyclohexane
 Concen: 1.829 ug/L
 RT: 4.71 min Scan# 1125
 Delta R.T. 0.01 min
 Lab File: VV017311.D
 Acq: 02 Jul 2020 15:18

Tgt Ion: 56 Resp: 35016
 Ion Ratio Lower Upper
 56 100
 69 31.0 24.4 36.6
 84 89.3 69.9 104.9





#33

Benzene

Concen: 4.564 ug/L

RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

Lab File: VV017311.D

Acq: 02 Jul 2020 15:18

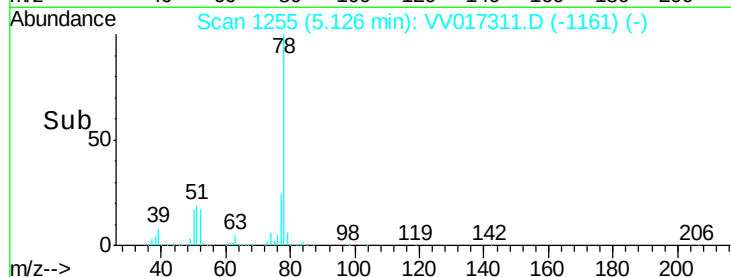
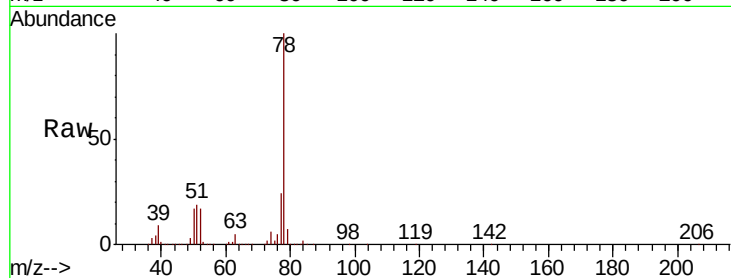
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MSVOA_V

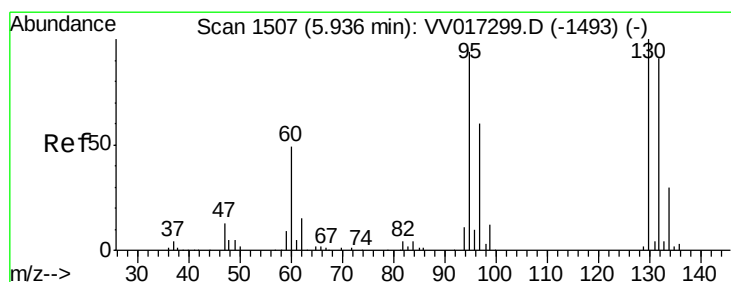
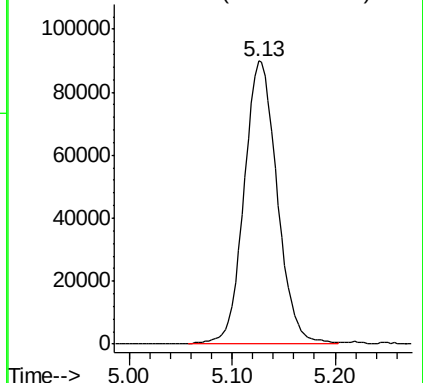
ClientSampleId :

H4295

Tgt Ion: 78 Resp: 200760



Abundance Ion 78.10 (77.80 to 78.80): VV0



#34

Trichloroethene

Concen: 0.288 ug/L

RT: 5.94 min Scan# 1509

Delta R.T. 0.01 min

Lab File: VV017311.D

Acq: 02 Jul 2020 15:18

Tgt Ion: 95 Resp: 3705

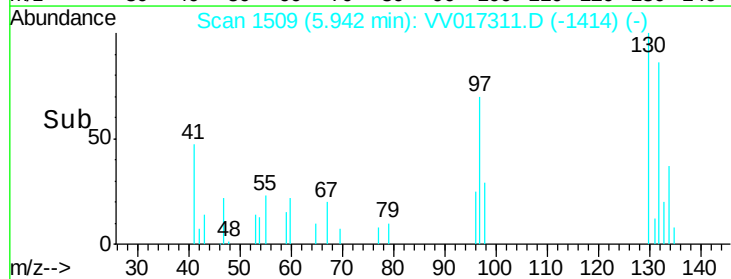
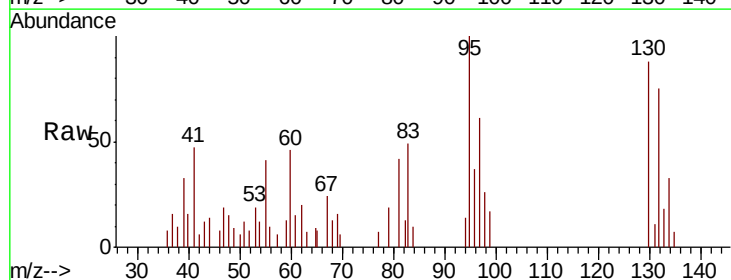
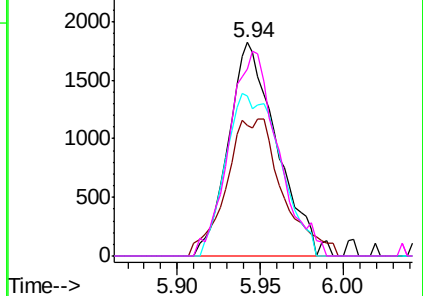
Ion	Ratio	Lower	Upper
95	100		
97	61.4	45.3	84.1
132	75.0	68.8	127.8
130	87.8	70.2	130.4

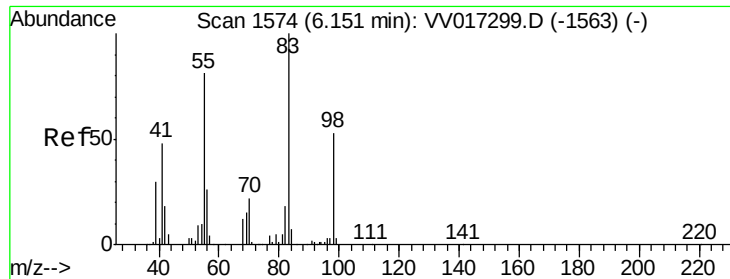
Abundance Ion 95.00 (94.70 to 95.70): VV0

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

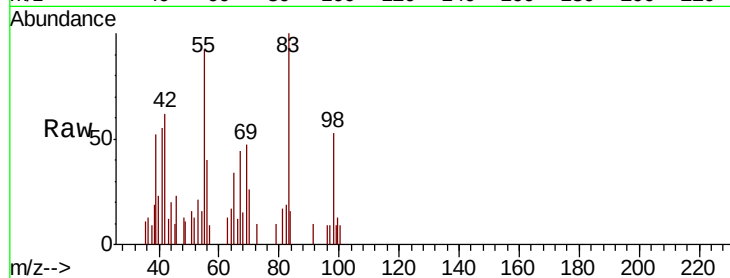




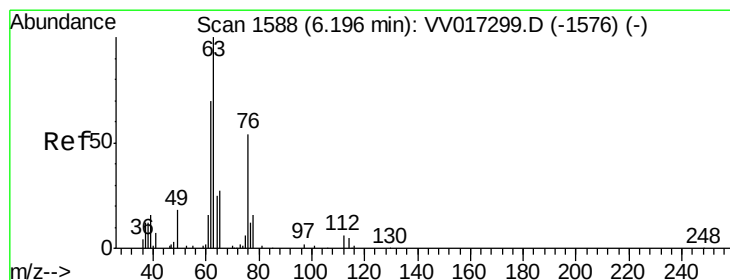
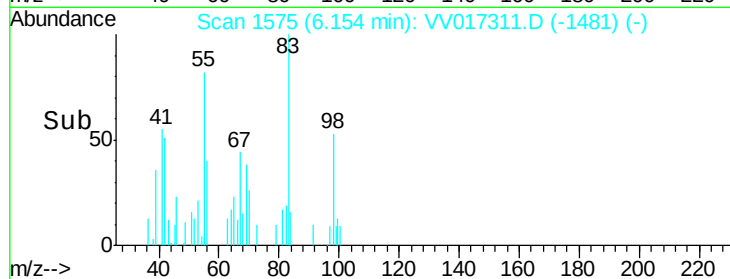
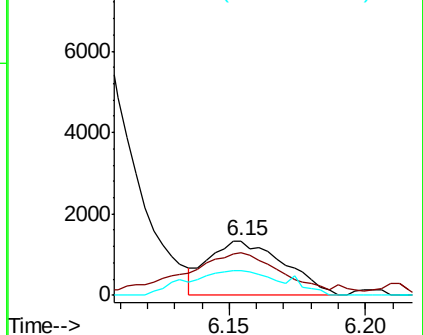
#35
Methylvlcyclohexane
Concen: 0.129 ug/L
RT: 6.15 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VV017311.D
Acq: 02 Jul 2020 15:18

Instrument :
MSVOA_V
ClientSampleId :
H4295

Tot Ion: 83 Resp: 2588
Ion Ratio Lower Upper
83 100
55 92.8 63.6 95.4
98 57.0 38.8 58.2

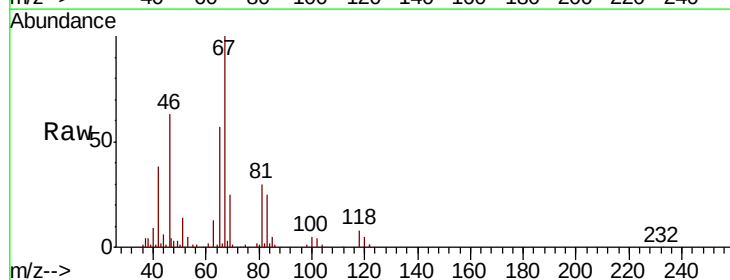


Abundance Ion 83.15 (82.85 to 83.85): VV0
Ion 55.10 (54.80 to 55.80): VV0
Ion 98.15 (97.85 to 98.85): VV0

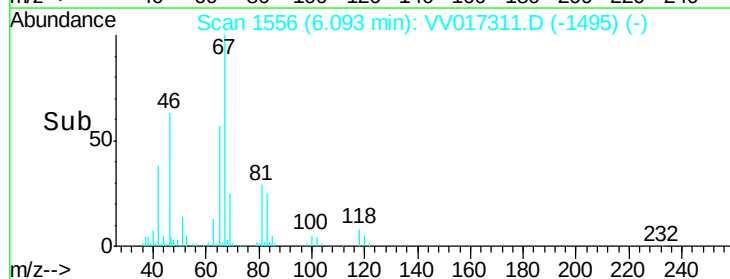
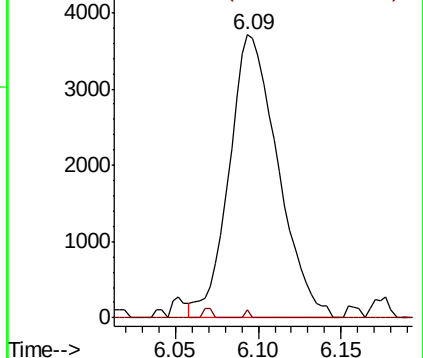


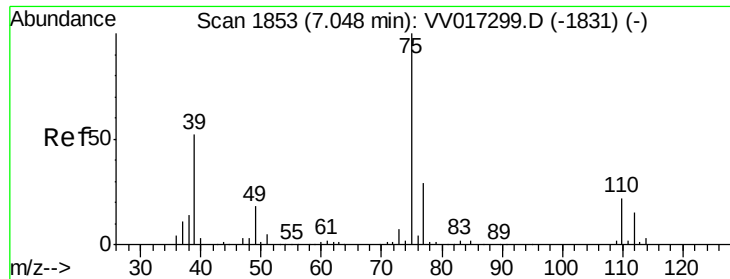
#37
1,2-Dichloropropane
Concen: 0.696 ug/L
RT: 6.09 min Scan# 1556
Delta R.T. -0.10 min
Lab File: VV017311.D
Acq: 02 Jul 2020 15:18

Tgt Ion: 63 Resp: 7574
Ion Ratio Lower Upper
63 100
112 0.3 4.4 6.6#



Abundance Ion 63.10 (62.80 to 63.80): VV0
Ion 112.10 (111.80 to 112.80): V

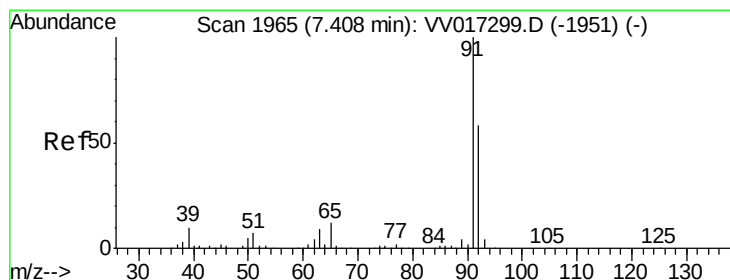
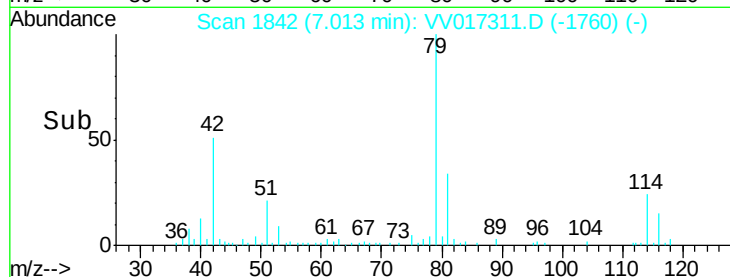
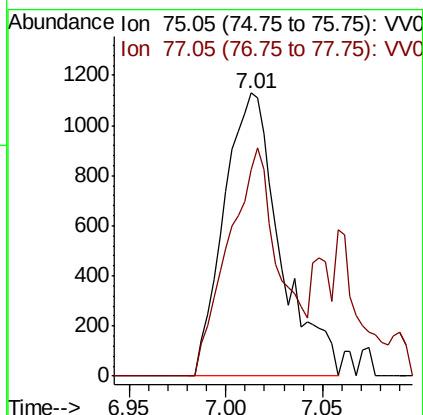
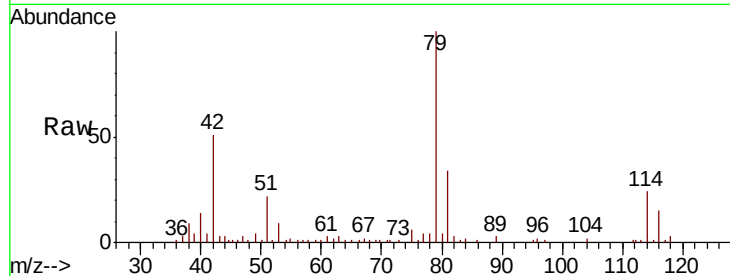




#39
 cis-1,3-Dichloropropene
 Concen: 0.141 ug/L
 RT: 7.01 min Scan# 1842
 Delta R.T. -0.04 min
 Lab File: VV017311.D
 Acq: 02 Jul 2020 15:18

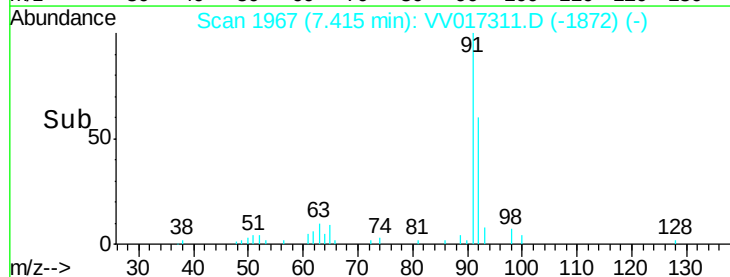
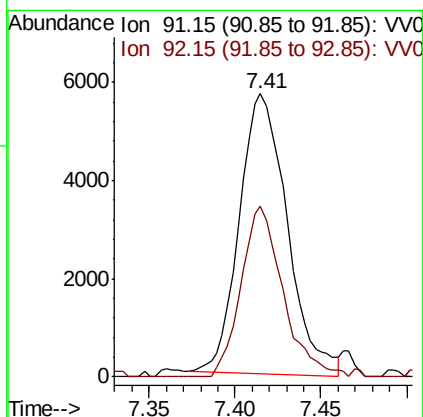
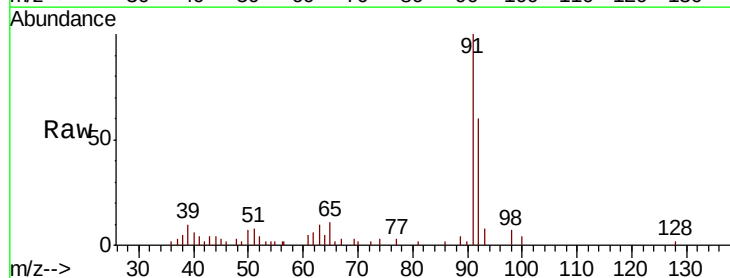
Instrument :
 MSVOA_V
 ClientSampleId :
 H4295

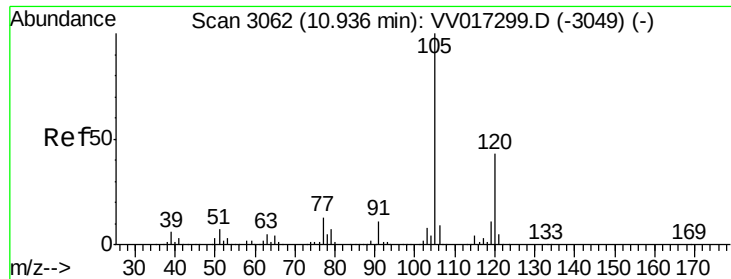
Tot Ion: 75 Resp: 2275
 Ion Ratio Lower Upper
 75 100
 77 73.0 22.3 41.5#



#42
 Toluene
 Concen: 0.215 ug/L
 RT: 7.41 min Scan# 1967
 Delta R.T. 0.01 min
 Lab File: VV017311.D
 Acq: 02 Jul 2020 15:18

Tgt Ion: 91 Resp: 10983
 Ion Ratio Lower Upper
 91 100
 92 60.3 39.9 74.1





#44

1,2,4-Trimethylbenzene

Concen: 0.074 ug/L

RT: 10.94 min Scan# 3064

Delta R.T. 0.01 min

Lab File: VV017311.D

Acq: 02 Jul 2020 15:18

Instrument :

MSVOA_V

ClientSampleId :

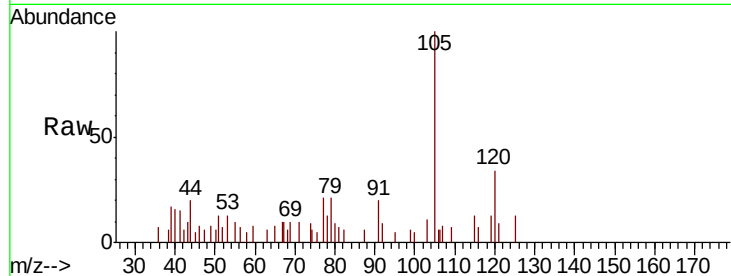
H4295

Tot Ion:105 Resp: 3463

Ion Ratio Lower Upper

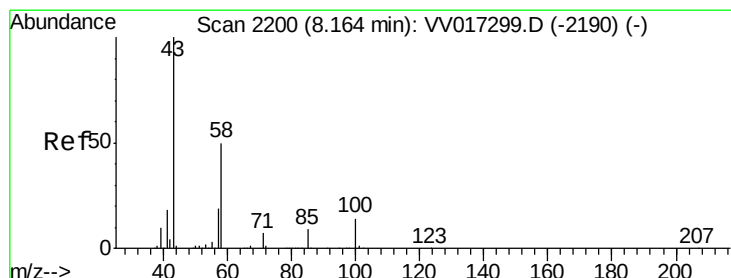
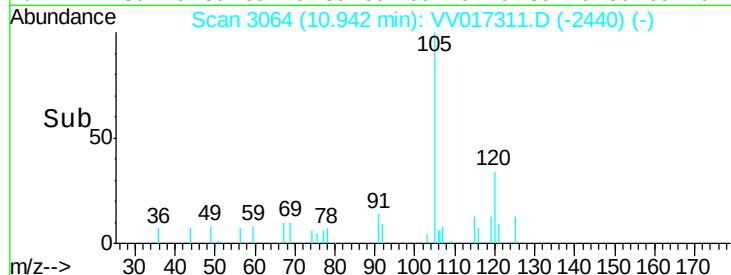
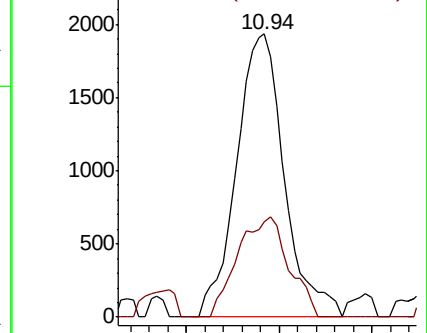
105 100

120 37.9 35.8 53.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#50

2-Hexanone

Concen: 1.135 ug/L

RT: 8.17 min Scan# 2202

Delta R.T. 0.01 min

Lab File: VV017311.D

Acq: 02 Jul 2020 15:18

Tgt Ion: 43 Resp: 5077

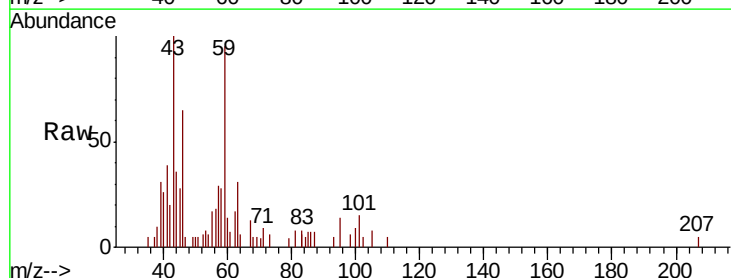
Ion Ratio Lower Upper

43 100

58 28.1 41.6 62.4#

57 15.0 15.4 23.0#

100 6.3 10.1 15.1#

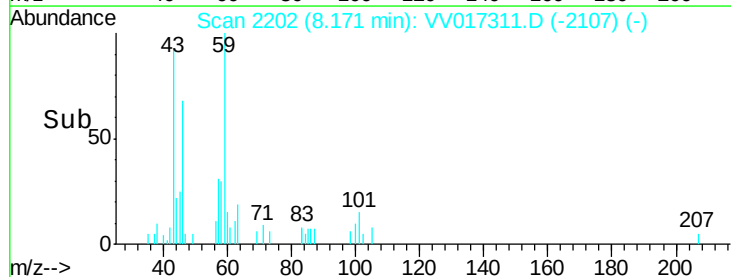
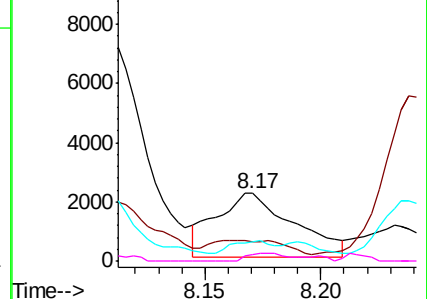


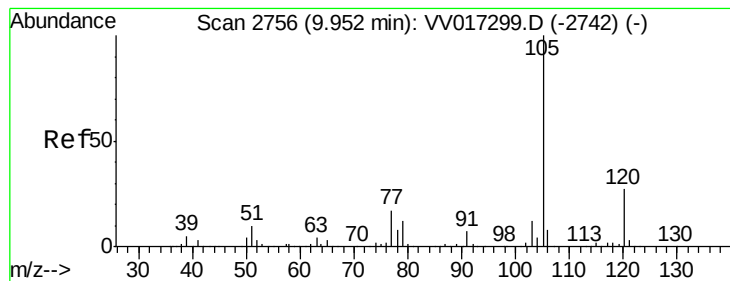
Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0

Ion 57.20 (56.90 to 57.90): VV0

Ion 100.15 (99.85 to 100.85): VV0





#58

Isopropylbenzene

Concen: 0.085 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VV017311.D

Acq: 02 Jul 2020 15:18

Instrument :

MSVOA_V

ClientSampleId :

H4295

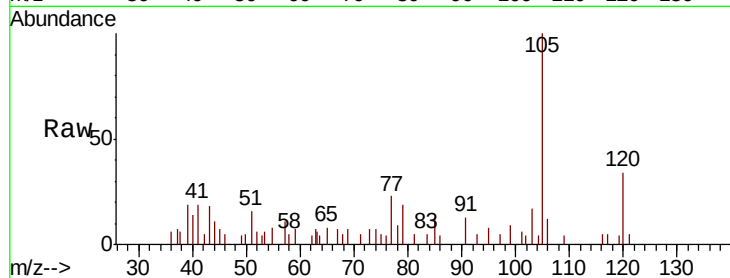
Tot Ion: 105 Resp: 4657

Ion Ratio Lower Upper

105 100

120 28.8 21.2 31.8

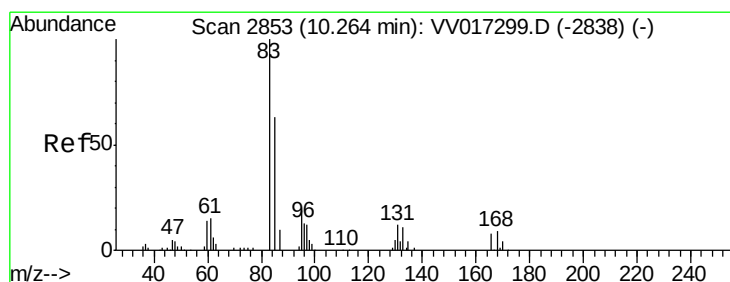
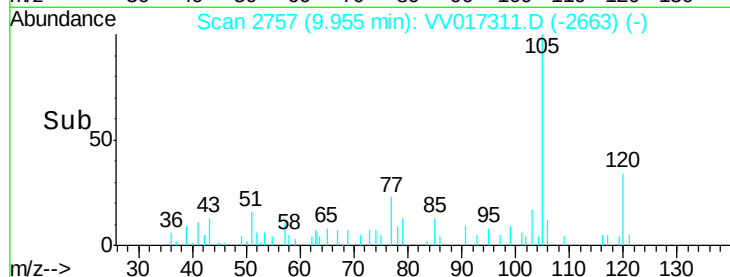
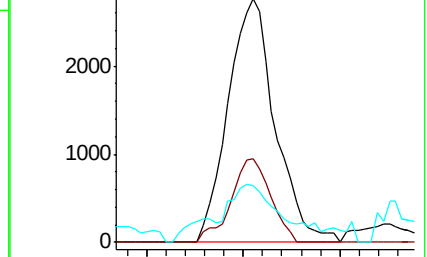
77 16.4 13.0 19.4



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



#60

1,1,2,2-Tetrachloroethane

Concen: 0.323 ug/L

RT: 10.24 min Scan# 2847

Delta R.T. -0.02 min

Lab File: VV017311.D

Acq: 02 Jul 2020 15:18

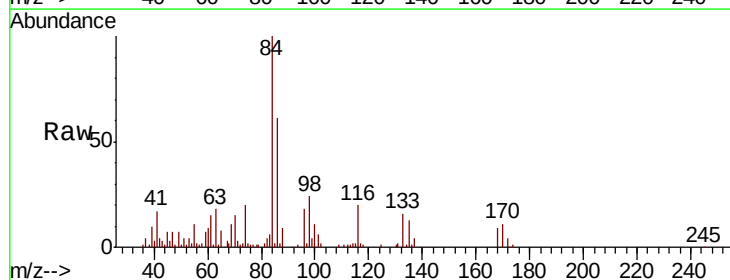
Tgt Ion: 83 Resp: 2578

Ion Ratio Lower Upper

83 100

85 40.0 42.9 79.7#

131 27.3 8.6 13.0#



Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

