

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV060520\
 Data File : VV016565.D
 Acq On : 06 Jun 2020 03:40
 Operator : SY/MD
 Sample : L2862-11
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jun 06 06:32:56 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM060320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jun 06 06:28:49 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	387314	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	370167	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	181945	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	118802	43.31	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	86.62%
7) Chloroethane-d5	1.56	69	86422	43.64	ug/L	-0.02
Spiked Amount	50.000	Range	70 - 130	Recovery	=	87.28%
11) 1,1-Dichloroethene-d2	2.12	63	161478	33.21	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	66.42%
21) 2-Butanone-d5	3.90	46	194101	110.66	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	110.66%
24) Chloroform-d	4.37	84	247068	47.99	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	95.98%
26) 1,2-Dichloroethane-d4	5.06	65	180632	52.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.80%
32) Benzene-d6	5.08	84	498381	50.26	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	100.52%
36) 1,2-Dichloropropane-d6	6.09	67	152028	49.21	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	98.42%
41) Toluene-d8	7.34	98	463024	51.42	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	102.84%
43) trans-1,3-Dichloropropene-	7.64	79	73747	48.98	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	97.96%
47) 2-Hexanone-d5	8.11	63	152842	115.51	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	115.51%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	193993	46.30	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.60%
64) 1,2-Dichlorobenzene-d4	11.65	152	185575	54.27	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	108.54%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1513	0.677	ug/L #	20
12) 1,1-Dichloroethene	2.12	96	1624	0.755	ug/L #	1
13) Acetone	2.17	43	8018	4.891	ug/L	98
15) Methyl Acetate	2.44	43	26801	8.894	ug/L #	54
27) 1,2-Dichloroethane	5.15	62	774015	181.125	ug/L #	76
29) Cyclohexane	4.70	56	253681	57.741	ug/L	99
35) Methylcyclohexane	6.15	83	16419	4.004	ug/L	89
37) 1,2-Dichloropropane	6.20	63	6653	2.345	ug/L #	95
39) cis-1,3-Dichloropropene	7.01	75	7653	1.850	ug/L	94
40) 4-Methyl-2-pentanone	7.25	43	150123	38.450	ug/L	99
42) Toluene	7.41	91	7397321	641.245	ug/L	97
48) 2-Hexanone	8.16	43	21961	7.235	ug/L #	88
52) Ethylbenzene	9.04	91	7970109	634.792	ug/L	98
53) m,p-Xylene	9.16	106	570179	120.437	ug/L	100
54) o-xylene	9.57	106	777896	169.658	ug/L	98
55) Stvrene	9.57	104	54458	6.780	ug/L #	1
56) Isopropylbenzene	9.95	105	207300	17.406	ug/L	99

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Quant Title : VOC Analysis
QLast Update : Sat Jun 06 06:28:49 2020
Response via : Initial Calibration

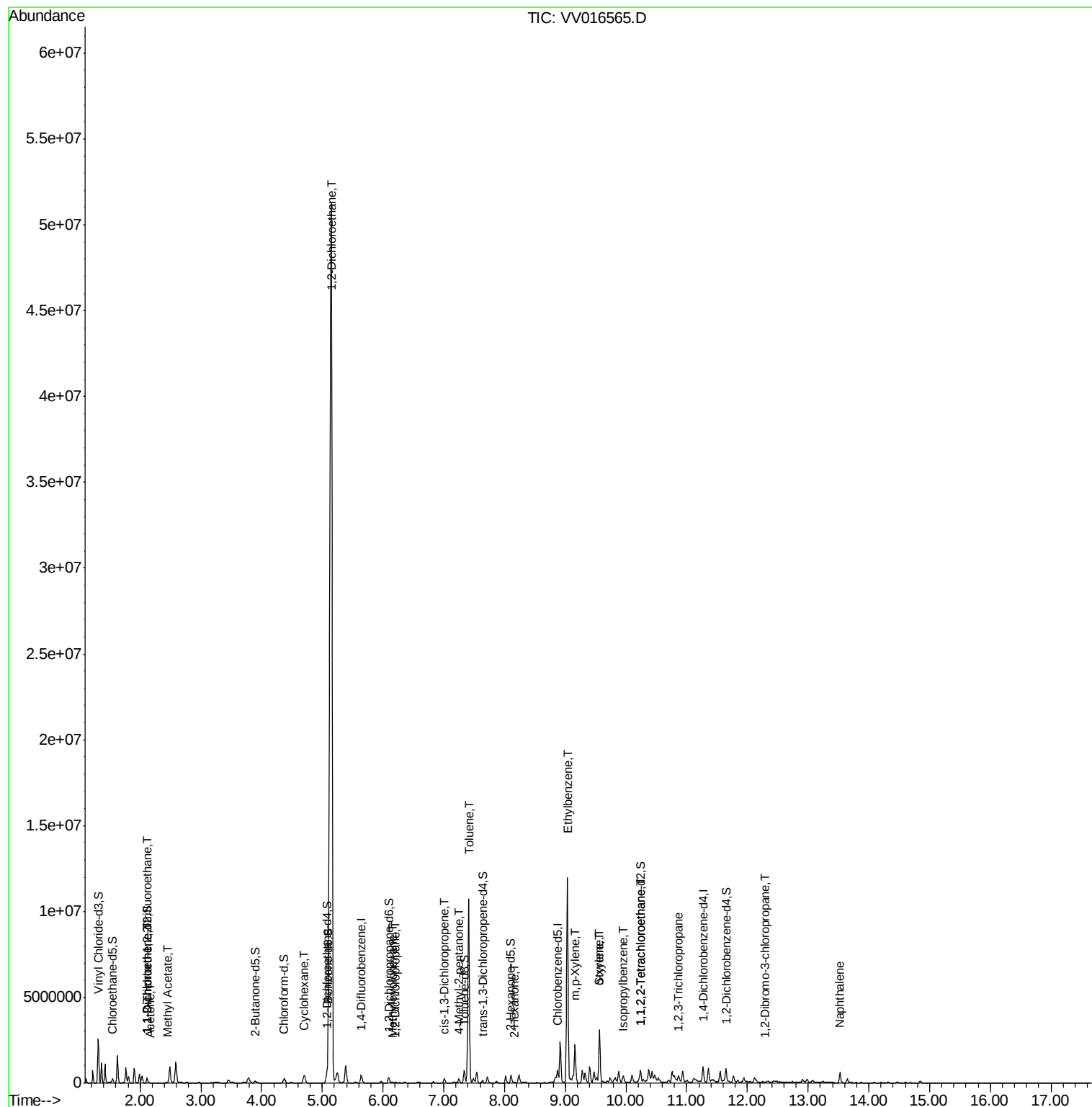
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
58) 1,1,2,2-Tetrachloroethane	10.25	83	6219	1.413	ug/L #	86
59) 1,2,3-Trichloropropane	10.86	75	7280	2.056	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.28	75	1477	1.715	ug/L #	3
69) Naphthalene	13.53	128	448825	41.646	ug/L	99

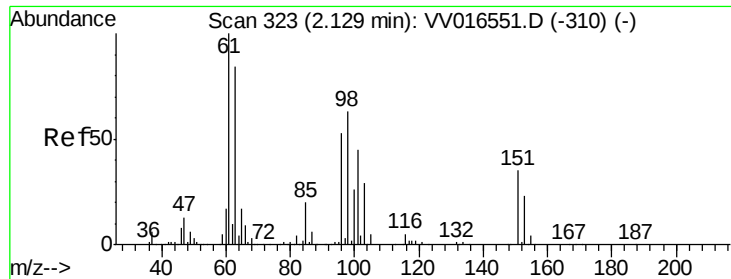
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#10

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

Concen: 0.677 ug/L

RT: 2.12 min Scan# 319

Delta R.T. -0.01 min

Lab File: VV016565.D

Acq: 06 Jun 2020 03:40

Instrument :

MSVOA_V

ClientSampleId :

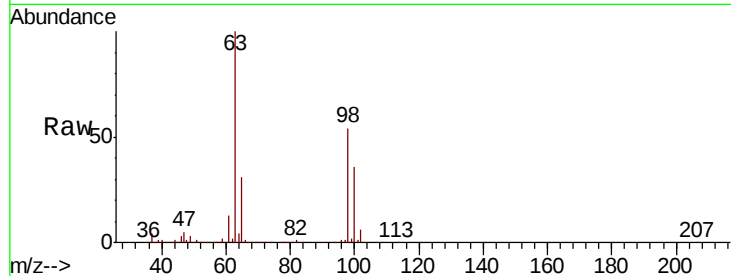
Tot Ion:101 Resp: 1513

Ion Ratio Lower Upper

101 100

85 2.8 35.6 53.4#

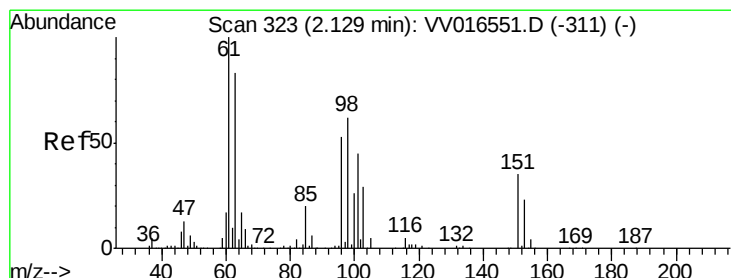
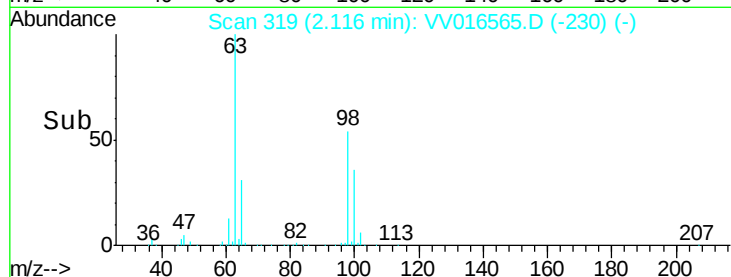
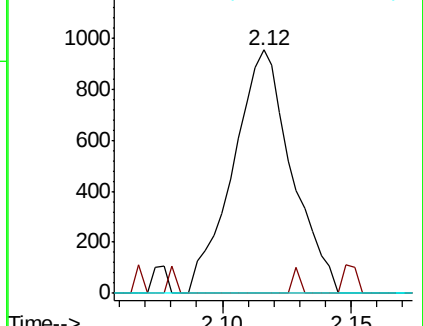
151 0.0 61.8 92.8#



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: 0.755 ug/L

RT: 2.12 min Scan# 319

Delta R.T. -0.01 min

Lab File: VV016565.D

Acq: 06 Jun 2020 03:40

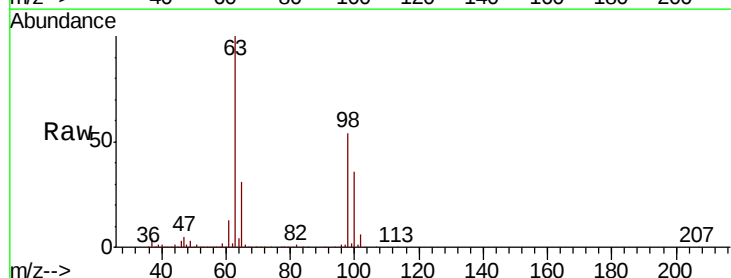
Tgt Ion: 96 Resp: 1624

Ion Ratio Lower Upper

96 100

61 1425.1 125.5 233.1#

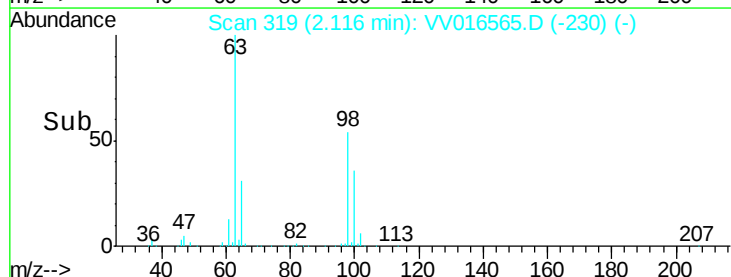
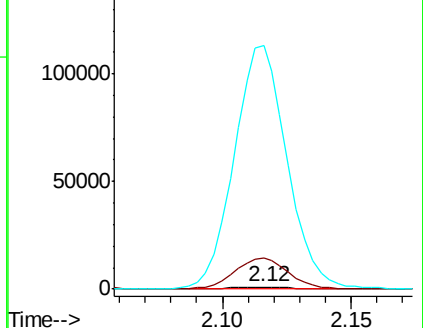
63 11026.1 104.0 193.1#

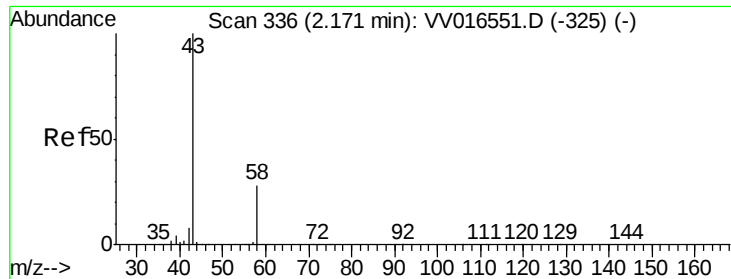


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 63.00 (62.70 to 63.70): VV0

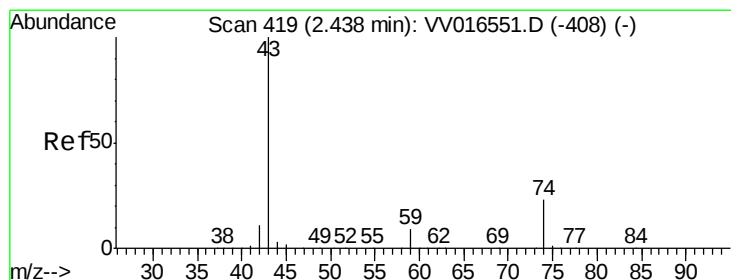
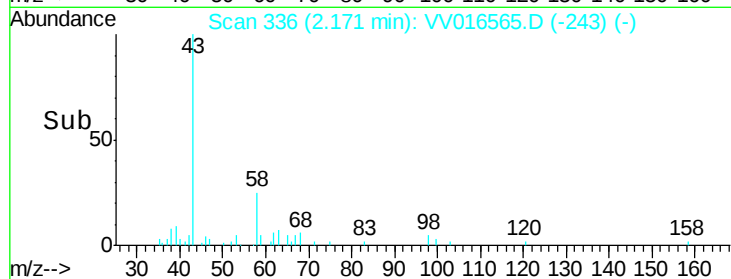
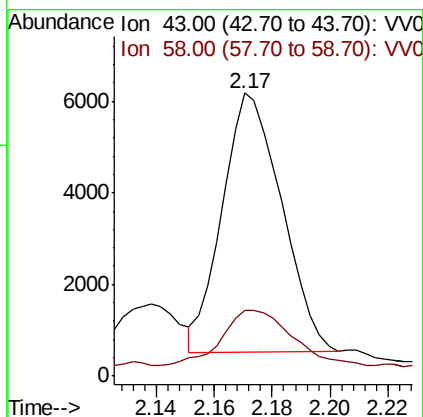
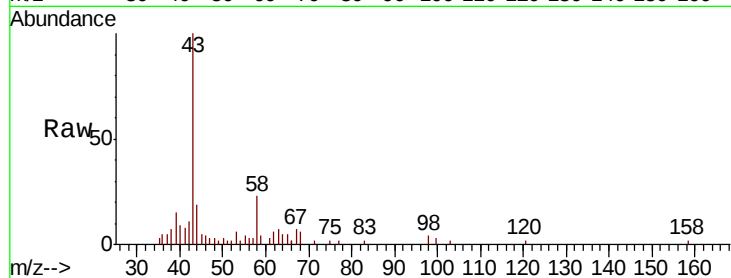




#13
Acetone
Concen: 4.891 ug/L
RT: 2.17 min Scan# 336
Delta R.T. -0.00 min
Lab File: VV016565.D
Acq: 06 Jun 2020 03:40

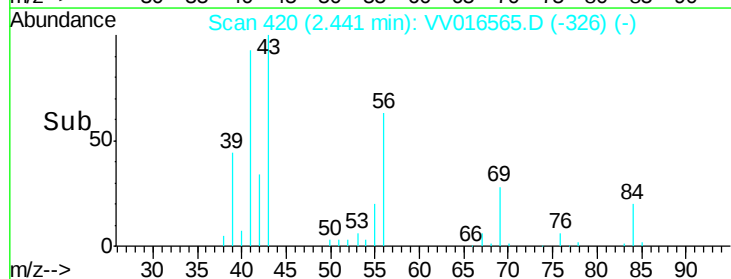
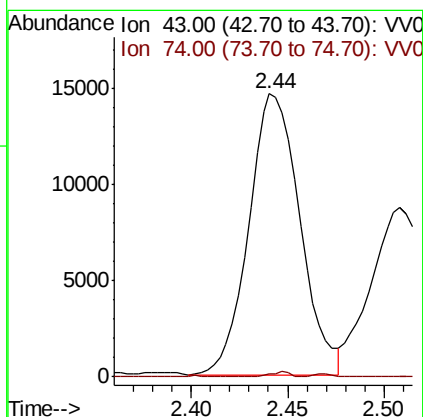
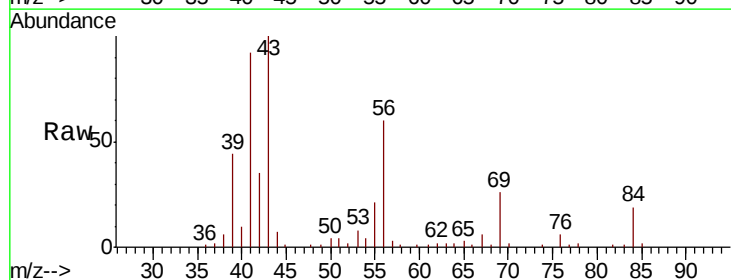
Instrument :
MSVOA_V
ClientSampleId :

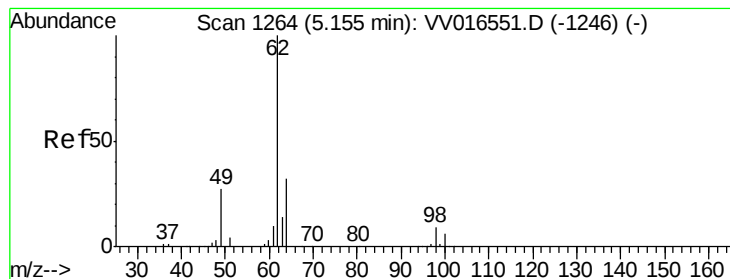
Tot Ion: 43 Resp: 8018
Ion Ratio Lower Upper
43 100
58 27.3 0.0 57.2



#15
Methyl Acetate
Concen: 8.894 ug/L
RT: 2.44 min Scan# 420
Delta R.T. 0.00 min
Lab File: VV016565.D
Acq: 06 Jun 2020 03:40

Tgt Ion: 43 Resp: 26801
Ion Ratio Lower Upper
43 100
74 0.6 18.1 27.1#





#27

1,2-Dichloroethane

Concen: 181.125 ug/L

RT: 5.15 min Scan# 1262

Delta R.T. -0.01 min

Lab File: VV016565.D

Acq: 06 Jun 2020 03:40

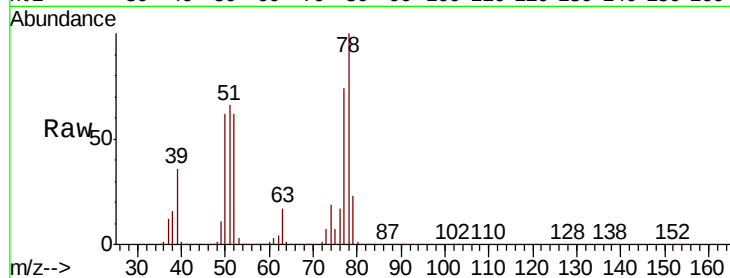
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 62 Resp: 774015

Ion Ratio Lower Upper

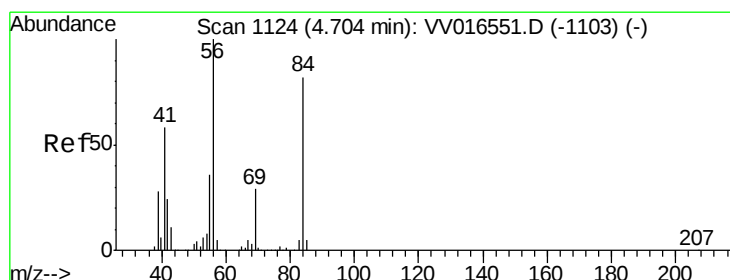
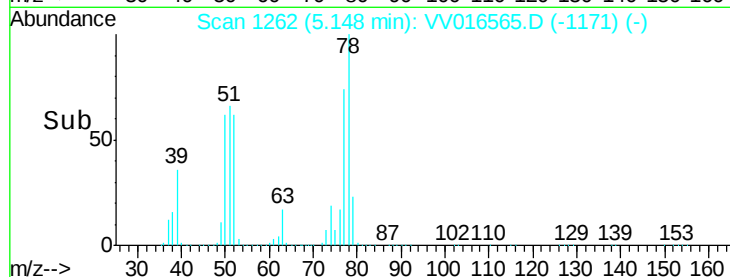
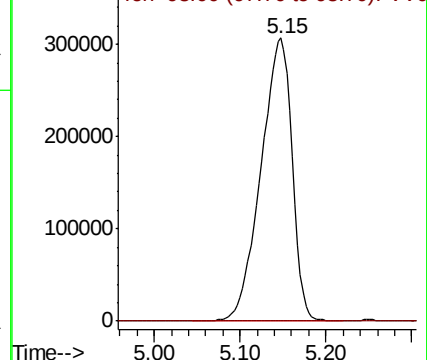
62 100

98 0.0 6.9 10.3#



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 98.00 (97.70 to 98.70): VV0



#29

Cyclohexane

Concen: 57.741 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. -0.00 min

Lab File: VV016565.D

Acq: 06 Jun 2020 03:40

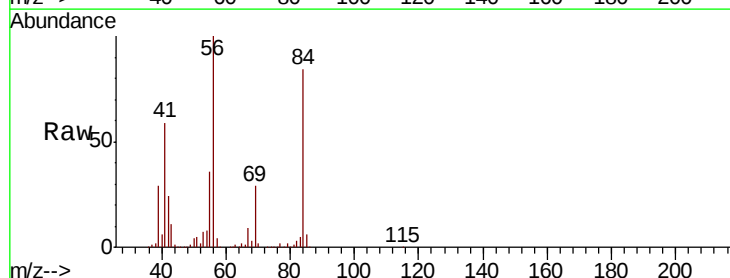
Tgt Ion: 56 Resp: 253681

Ion Ratio Lower Upper

56 100

69 30.1 23.9 35.9

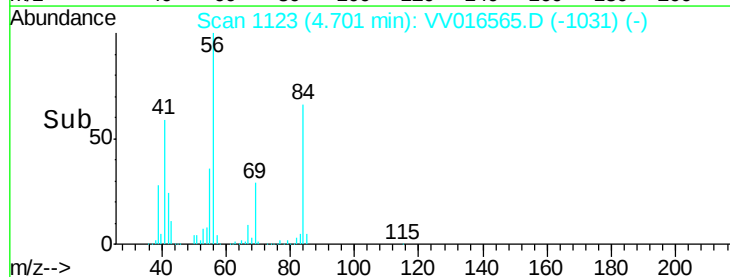
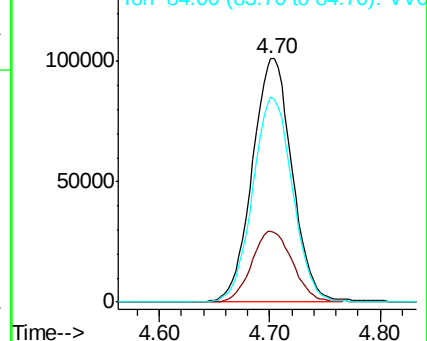
84 84.2 68.2 102.2

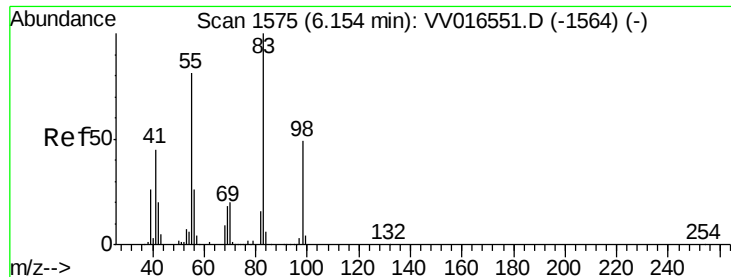


Abundance Ion 56.00 (55.70 to 56.70): VV0

Ion 69.00 (68.70 to 69.70): VV0

Ion 84.00 (83.70 to 84.70): VV0

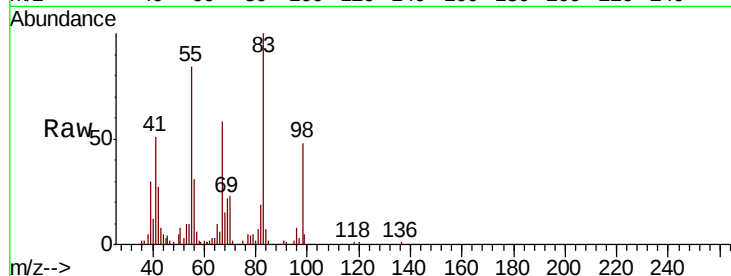




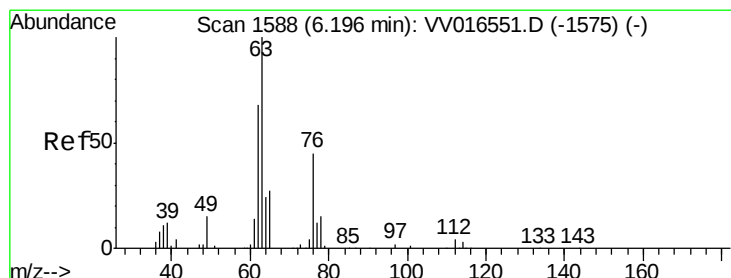
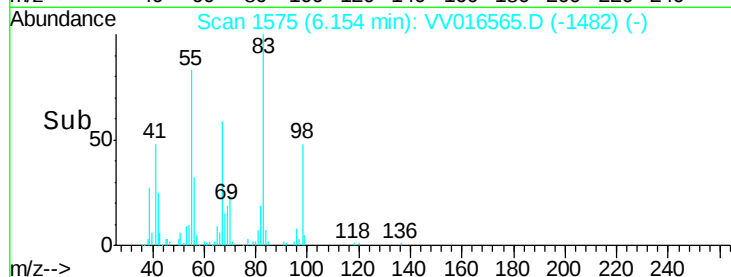
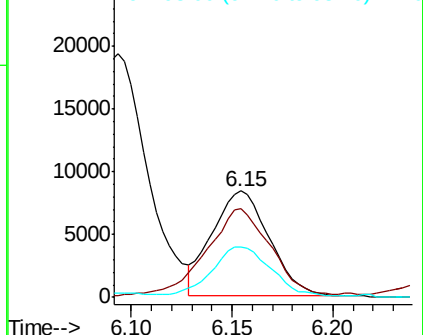
#35
Methvlcvclohexane
Concen: 4.004 ug/L
RT: 6.15 min Scan# 1575
Delta R.T. -0.00 min
Lab File: VV016565.D
Acq: 06 Jun 2020 03:40

Instrument :
MSVOA_V
ClientSampled :

Tot Ion: 83 Resp: 16419
Ion Ratio Lower Upper
83 100
55 92.8 63.4 95.0
98 51.3 39.4 59.0

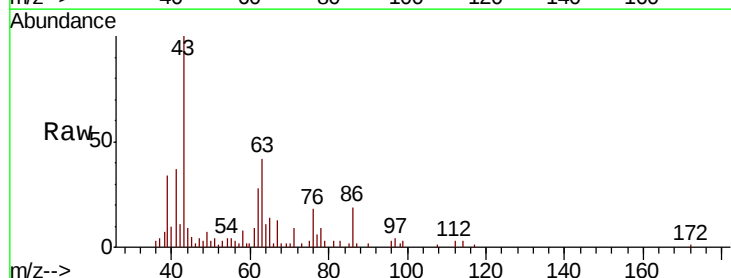


Abundance Ion 83.00 (82.70 to 83.70): VV0
Ion 55.00 (54.70 to 55.70): VV0
Ion 98.00 (97.70 to 98.70): VV0

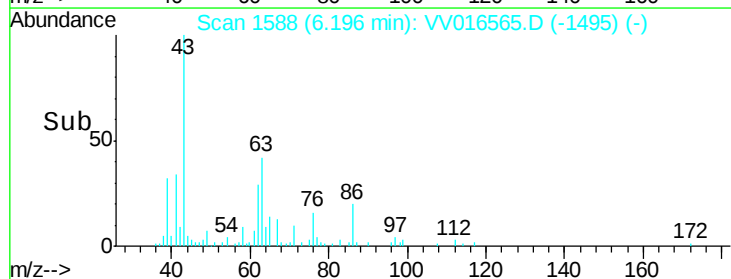
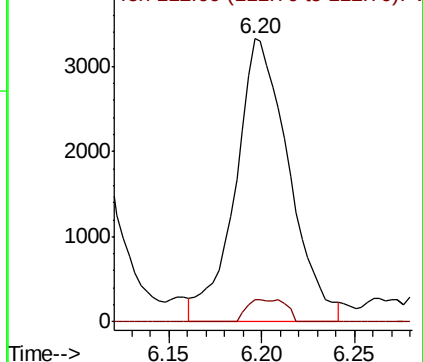


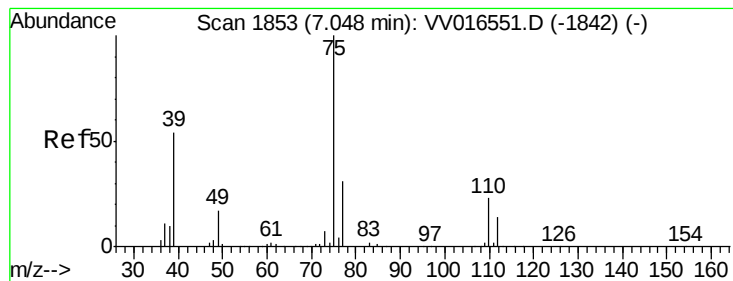
#37
1,2-Dichloropropane
Concen: 2.345 ug/L
RT: 6.20 min Scan# 1588
Delta R.T. -0.00 min
Lab File: VV016565.D
Acq: 06 Jun 2020 03:40

Tgt Ion: 63 Resp: 6653
Ion Ratio Lower Upper
63 100
112 3.1 3.9 5.9#



Abundance Ion 63.00 (62.70 to 63.70): VV0
Ion 112.00 (111.70 to 112.70): V



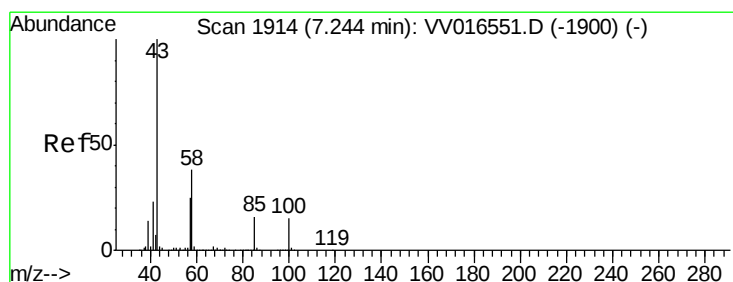
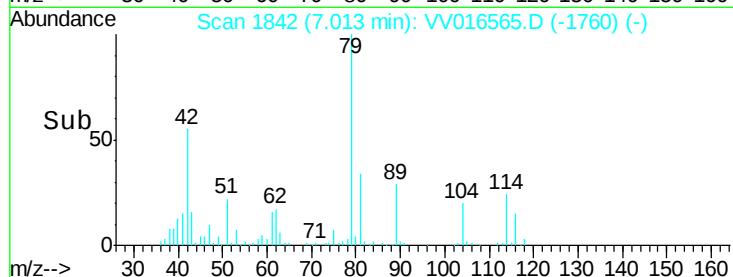
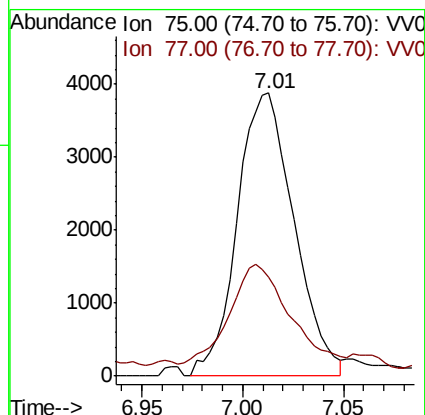
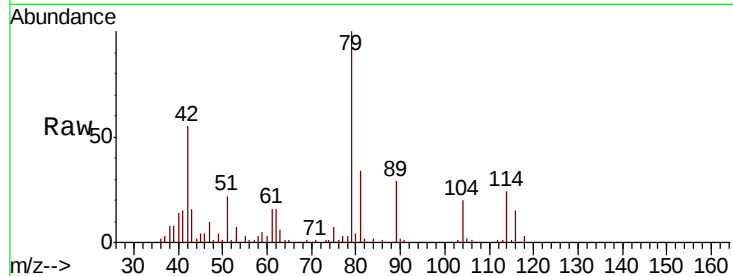


#39

cis-1,3-Dichloropropene
 Concen: 1.850 ug/L
 RT: 7.01 min Scan# 1842
 Delta R.T. -0.04 min
 Lab File: VV016565.D
 Acq: 06 Jun 2020 03:40

Instrument :
 MSVOA_V
 ClientSampled :

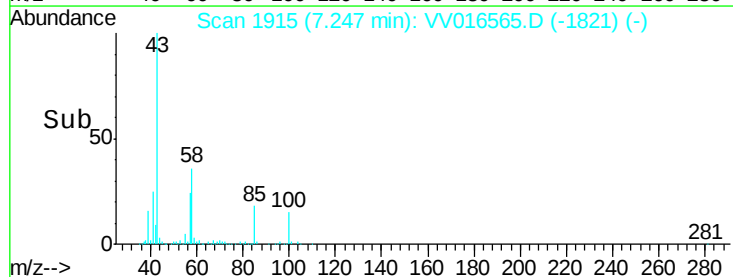
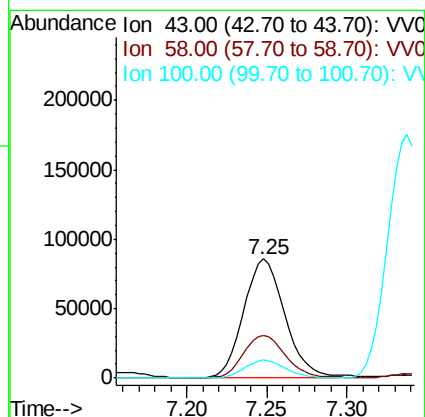
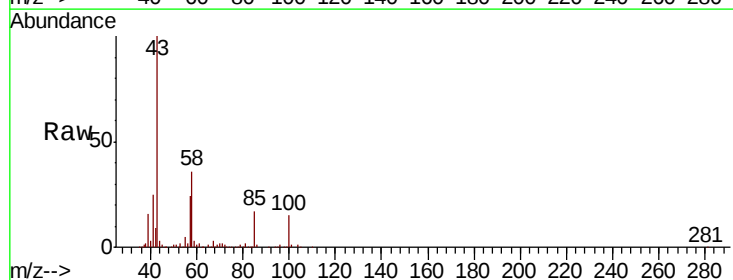
Tot Ion: 75 Resp: 7653
 Ion Ratio Lower Upper
 75 100
 77 35.1 22.0 41.0

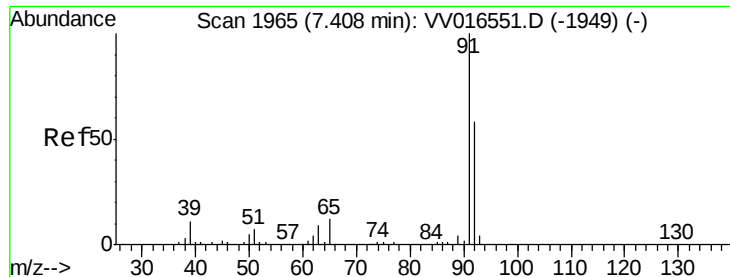


#40

4-Methyl-2-pentanone
 Concen: 38.450 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VV016565.D
 Acq: 06 Jun 2020 03:40

Tgt Ion: 43 Resp: 150123
 Ion Ratio Lower Upper
 43 100
 58 37.1 29.9 44.9
 100 15.3 11.9 17.9





#42

Toluene

Concen: 641.245 ug/L

RT: 7.41 min Scan# 1966

Delta R.T. 0.00 min

Lab File: VV016565.D

Acq: 06 Jun 2020 03:40

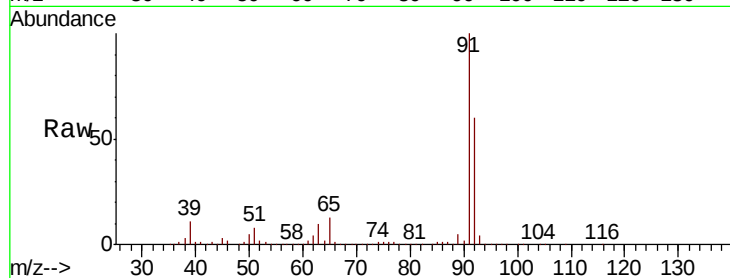
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 7397321

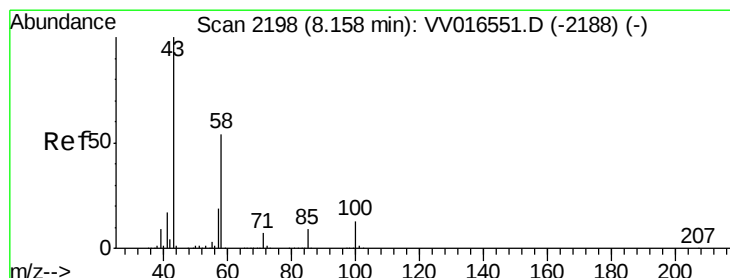
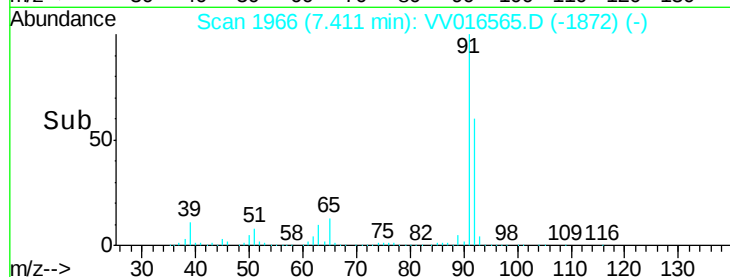
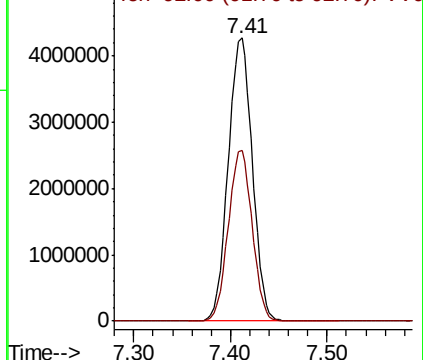
Ion Ratio Lower Upper

91 100

92 60.4 40.9 75.9



Abundance Ion 91.00 (90.70 to 91.70): VV0
Ion 92.00 (91.70 to 92.70): VV0



#48

2-Hexanone

Concen: 7.235 ug/L

RT: 8.16 min Scan# 2200

Delta R.T. 0.01 min

Lab File: VV016565.D

Acq: 06 Jun 2020 03:40

Tgt Ion: 43 Resp: 21961

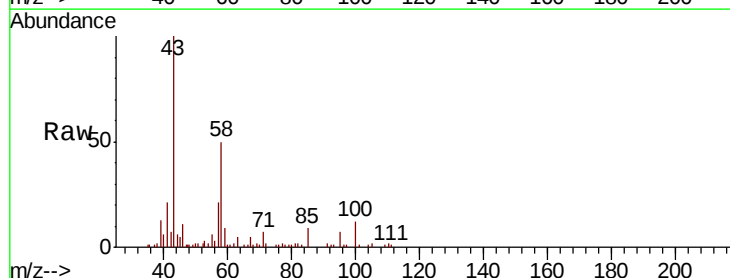
Ion Ratio Lower Upper

43 100

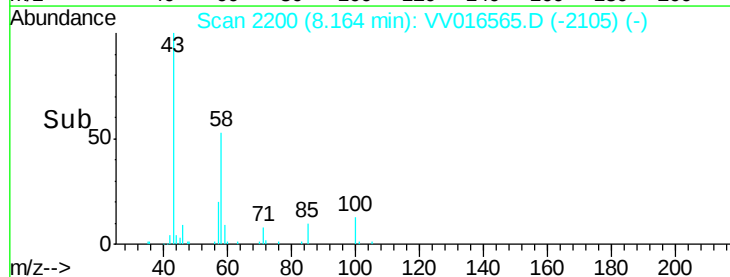
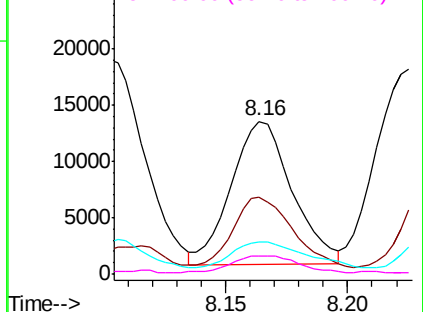
58 47.9 42.7 64.1

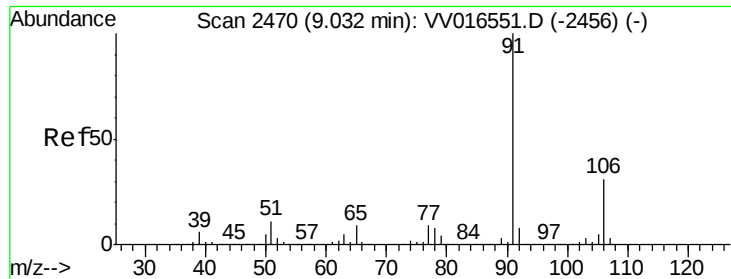
57 28.9 14.5 21.7#

100 15.4 9.4 14.2#



Abundance Ion 43.00 (42.70 to 43.70): VV0
Ion 58.00 (57.70 to 58.70): VV0
Ion 57.00 (56.70 to 57.70): VV0
Ion 100.00 (99.70 to 100.70): VV0





#52

Ethylbenzene

Concen: 634.792 ug/L

RT: 9.04 min Scan# 2471

Delta R.T. 0.00 min

Lab File: VV016565.D

Acq: 06 Jun 2020 03:40

Instrument :

MSVOA_V

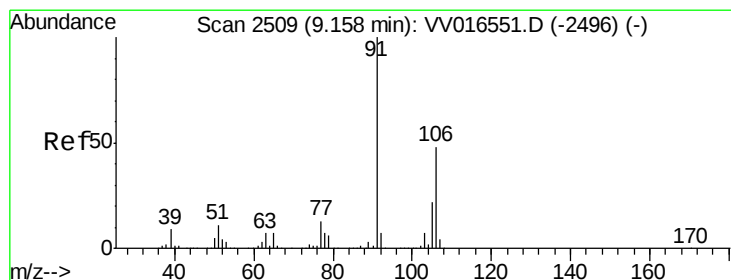
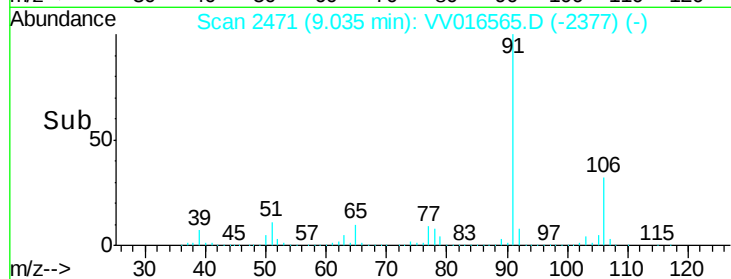
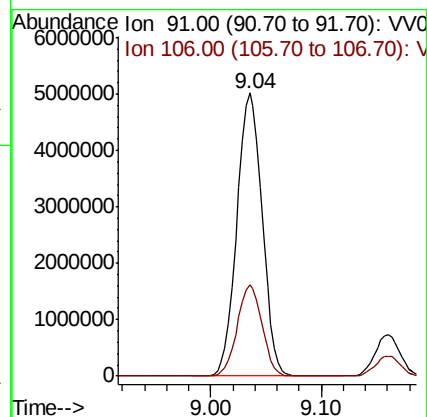
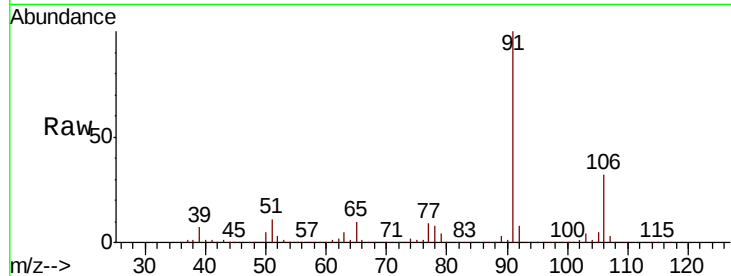
ClientSampleId :

Tot Ion: 91 Resp: 7970109

Ion Ratio Lower Upper

91 100

106 32.2 21.8 40.4



#53

m,p-Xylene

Concen: 120.437 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV016565.D

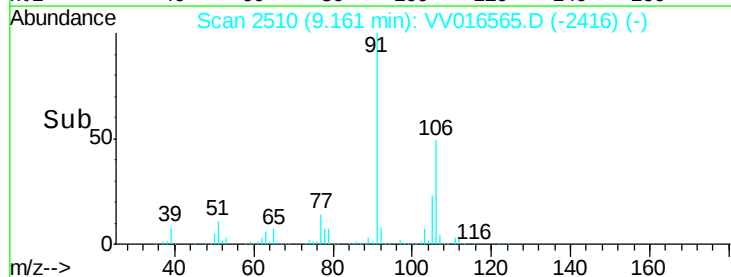
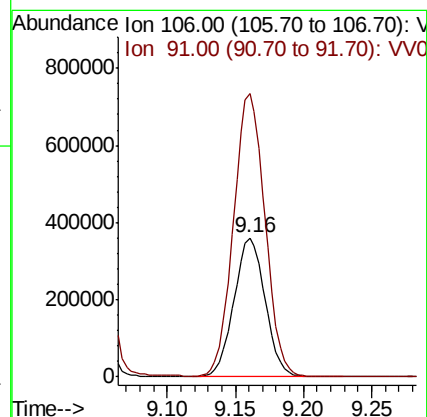
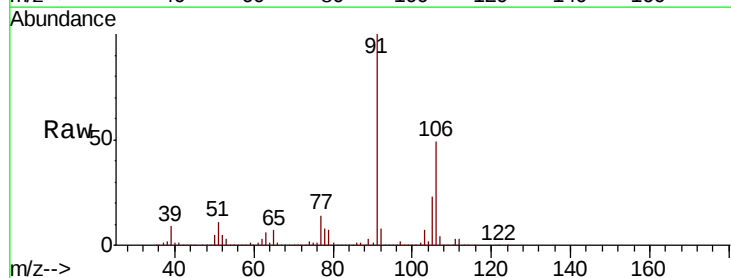
Acq: 06 Jun 2020 03:40

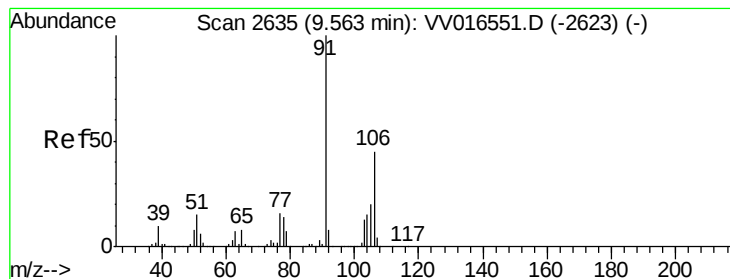
Tgt Ion: 106 Resp: 570179

Ion Ratio Lower Upper

106 100

91 203.8 142.5 264.6





#54

o-xylene

Concen: 169.658 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV016565.D

Acq: 06 Jun 2020 03:40

Instrument :

MSVOA_V

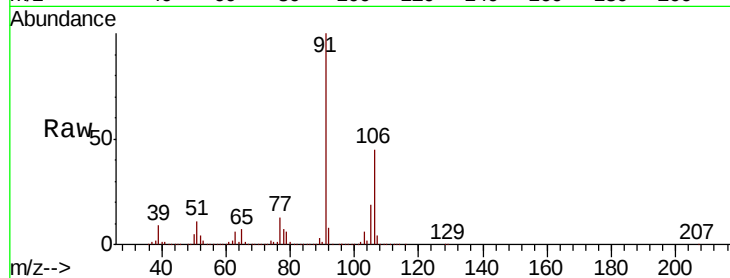
ClientSampleId :

Tot Ion:106 Resp: 777896

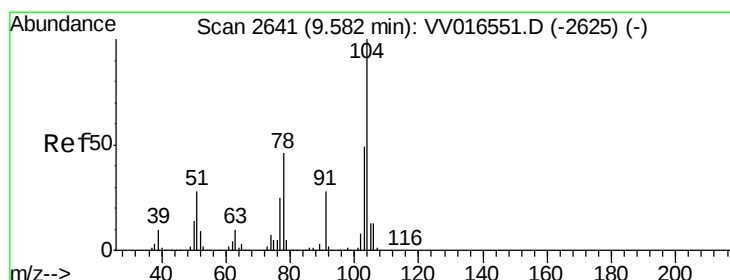
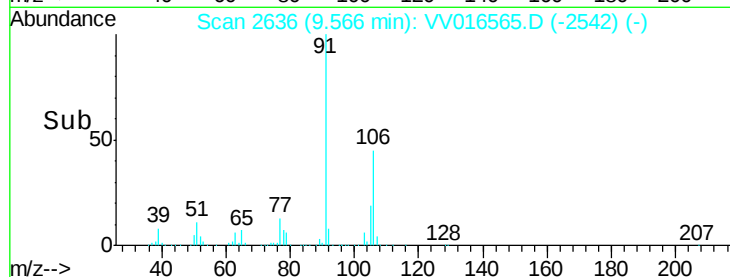
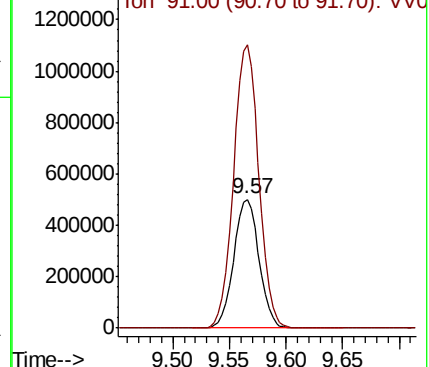
Ion Ratio Lower Upper

106 100

91 220.3 152.5 283.1



Abundance Ion 106.00 (105.70 to 106.70): V



#55

Styrene

Concen: 6.780 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. -0.02 min

Lab File: VV016565.D

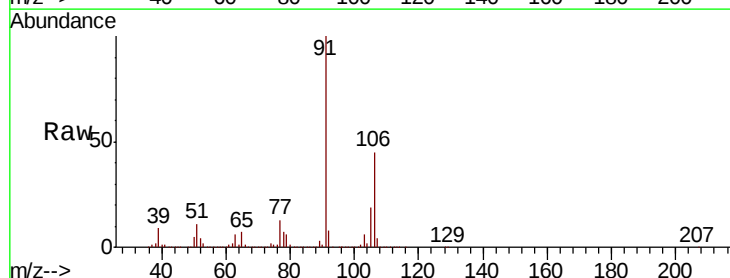
Acq: 06 Jun 2020 03:40

Tgt Ion:104 Resp: 54458

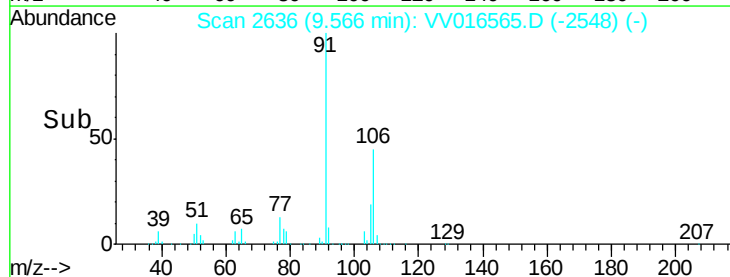
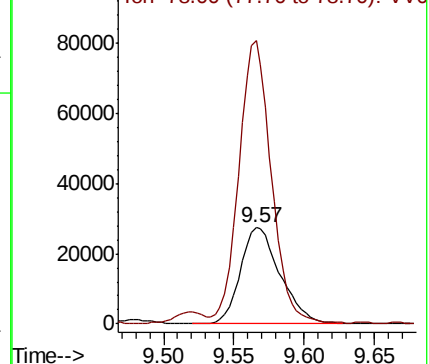
Ion Ratio Lower Upper

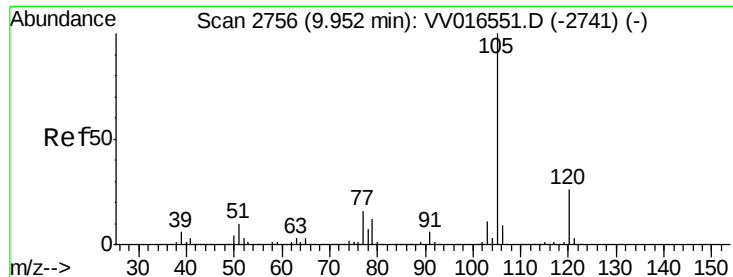
104 100

78 294.9 31.9 59.3#



Abundance Ion 104.00 (103.70 to 104.70): V





#56

Isopropylbenzene

Concen: 17.406 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VV016565.D

Acq: 06 Jun 2020 03:40

Instrument :

MSVOA_V

ClientSampleId :

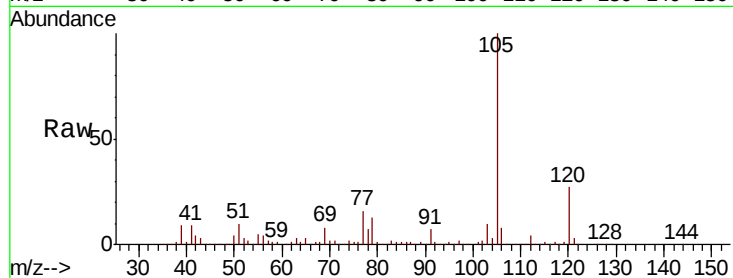
Tot Ion:105 Resp: 207300

Ion Ratio Lower Upper

105 100

120 26.8 21.0 31.6

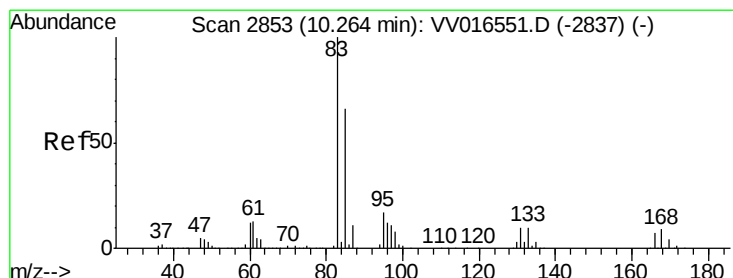
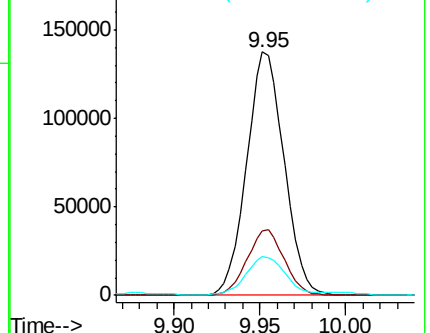
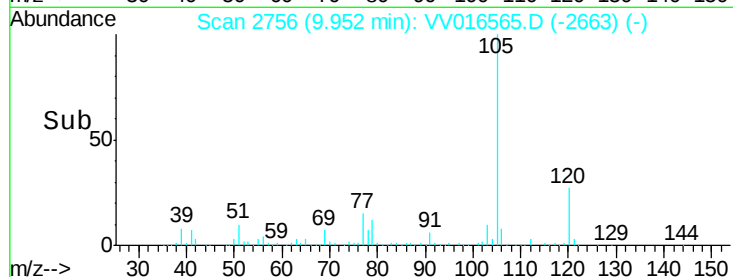
77 16.2 13.0 19.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 1.413 ug/L

RT: 10.25 min Scan# 2848

Delta R.T. -0.02 min

Lab File: VV016565.D

Acq: 06 Jun 2020 03:40

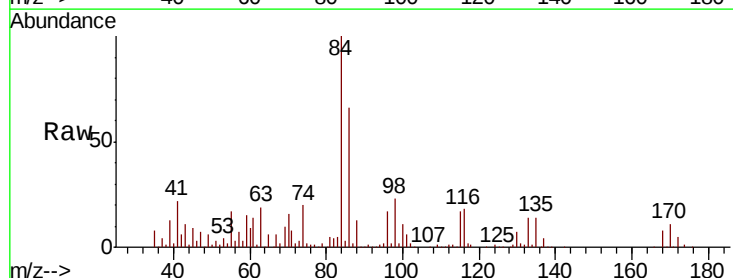
Tgt Ion: 83 Resp: 6219

Ion Ratio Lower Upper

83 100

85 60.5 44.0 81.6

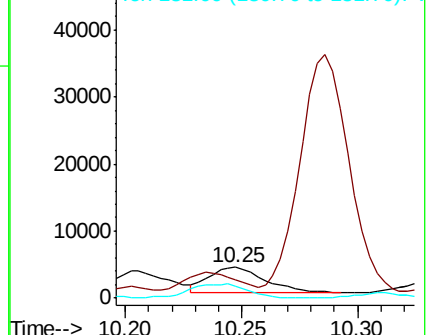
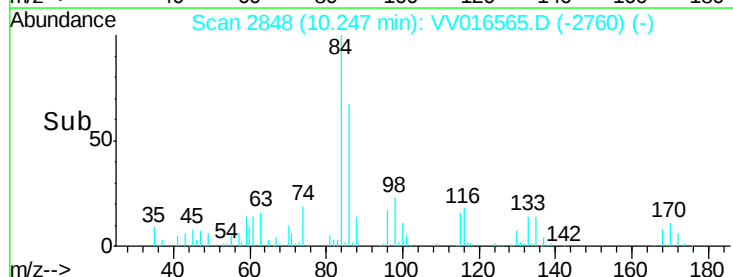
131 41.0 7.6 11.4#

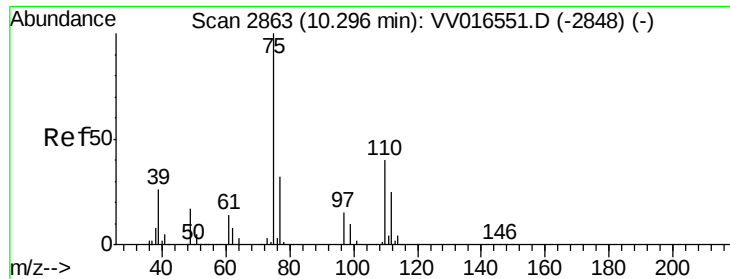


Abundance Ion 83.00 (82.70 to 83.70): VV0

Ion 85.00 (84.70 to 85.70): VV0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 2.056 ug/L

RT: 10.86 min Scan# 3038

Delta R.T. 0.56 min

Lab File: VV016565.D

Acq: 06 Jun 2020 03:40

Instrument :

MSVOA_V

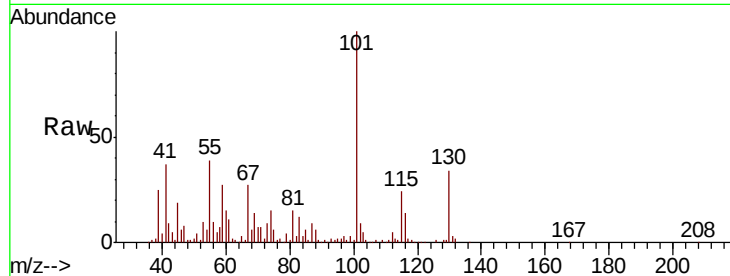
ClientSampleId :

Tot Ion: 75 Resp: 7280

Ion Ratio Lower Upper

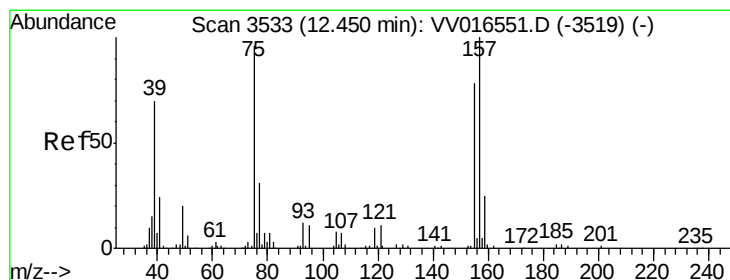
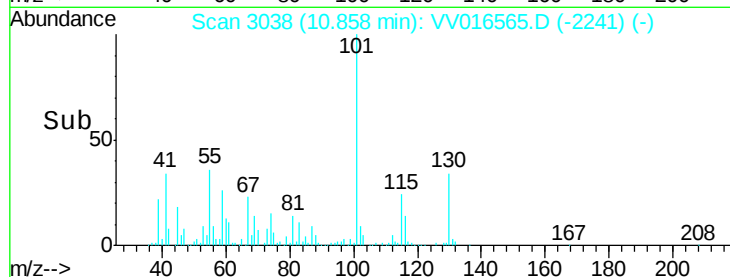
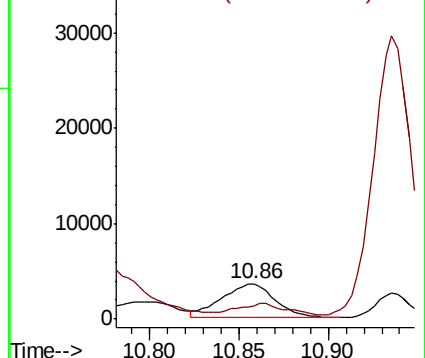
75 100

77 31.5 26.6 40.0



Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 77.00 (76.70 to 77.70): VV0



#66

1,2-Dibromo-3-chloropropane

Concen: 1.715 ug/L

RT: 12.28 min Scan# 3481

Delta R.T. -0.17 min

Lab File: VV016565.D

Acq: 06 Jun 2020 03:40

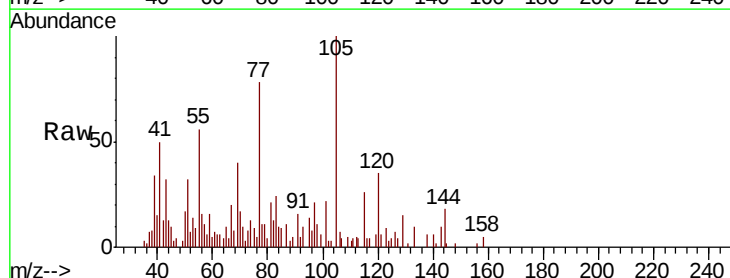
Tgt Ion: 75 Resp: 1477

Ion Ratio Lower Upper

75 100

155 0.0 66.2 99.2#

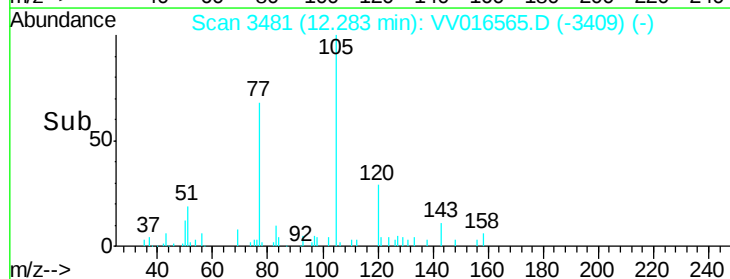
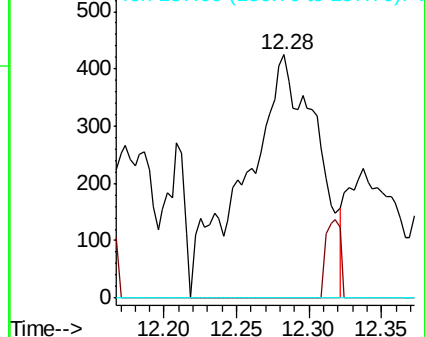
157 0.0 83.0 124.4#

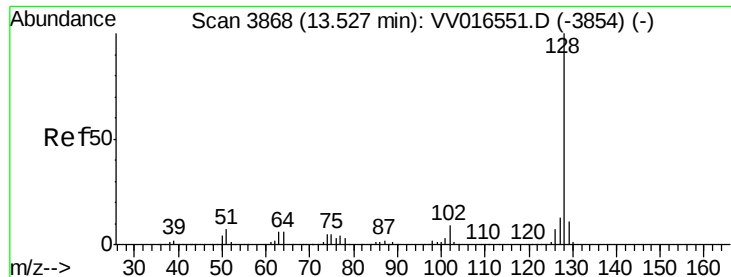


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V





#69

Naphthalene

Concen: 41.646 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. -0.00 min

Lab File: VV016565.D

Acq: 06 Jun 2020 03:40

Instrument :

MSVOA_V

ClientSampleId :

Tot Ion:128 Resp: 448825

Ion Ratio Lower Upper

128 100

127 13.1 10.2 15.4

129 11.2 8.7 13.1

