

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV060520\
 Data File : VV016547.D
 Acq On : 05 Jun 2020 19:39
 Operator : SY/MD
 Sample : L2861-19
 Misc : 5.0mL/MSVOA V/WATER
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jun 06 00:13:29 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVLM060320WMA.M
 Quant Title : VOC Analysis
 QLast Update : Sat Jun 06 00:07:58 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	433947	50.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	416914	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.27	152	209284	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.31	65	123793	40.28	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	80.56%
7) Chloroethane-d5	1.56	69	88340	39.81	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	79.62%
11) 1,1-Dichloroethene-d2	2.12	63	164925	30.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	60.54%
21) 2-Butanone-d5	3.90	46	197746	100.62	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.62%
24) Chloroform-d	4.37	84	248250	43.04	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	86.08%
26) 1,2-Dichloroethane-d4	4.99	65	151	0.04	ug/L	-0.06
Spiked Amount	50.000	Range	70 - 125	Recovery	=	0.08%#
32) Benzene-d6	5.09	84	488913	43.78	ug/L	0.01
Spiked Amount	50.000	Range	70 - 125	Recovery	=	87.56%
36) 1,2-Dichloropropane-d6	6.09	67	154386	44.37	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	88.74%
41) Toluene-d8	7.34	98	465017	45.85	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.70%
43) trans-1,3-Dichloropropene-	7.64	79	72989	43.04	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	86.08%
47) 2-Hexanone-d5	8.11	63	163818	109.92	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	109.92%
57) 1,1,2,2-Tetrachloroethane-	10.24	84	201360	42.67	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	85.34%
64) 1,2-Dichlorobenzene-d4	11.65	152	184245	46.85	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.70%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	1622	0.648	ug/L #	21
13) Acetone	2.17	43	11539	6.282	ug/L	100
15) Methyl Acetate	2.44	43	10212	3.025	ug/L #	54
27) 1,2-Dichloroethane	5.17	62	1594983	333.128	ug/L #	76
29) Cyclohexane	4.70	56	184628	37.312	ug/L	99
35) Methylcyclohexane	6.15	83	29579	6.405	ug/L	95
37) 1,2-Dichloropropane	6.20	63	40339	12.622	ug/L	99
39) cis-1,3-Dichloropropene	7.01	75	10991	2.359	ug/L	99
40) 4-Methyl-2-pentanone	7.25	43	261458	59.456	ug/L	99
42) Toluene	7.41	91	12315743	947.897	ug/L	94
48) 2-Hexanone	8.16	43	164324	48.065	ug/L #	98
52) Ethylbenzene	9.04	91	7730074	546.641	ug/L	99
53) m,p-Xylene	9.16	106	1161495	217.829	ug/L	98
54) o-xylene	9.57	106	1409439	272.930	ug/L	100
55) Styrene	9.57	104	132080	14.600	ug/L #	1
56) Isopropylbenzene	9.95	105	167993	12.524	ug/L #	97
58) 1,1,2,2-Tetrachloroethane	10.25	83	15695	3.166	ug/L #	92

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Quant Title : VOC Analysis
QLast Update : Sat Jun 06 00:07:58 2020
Response via : Initial Calibration

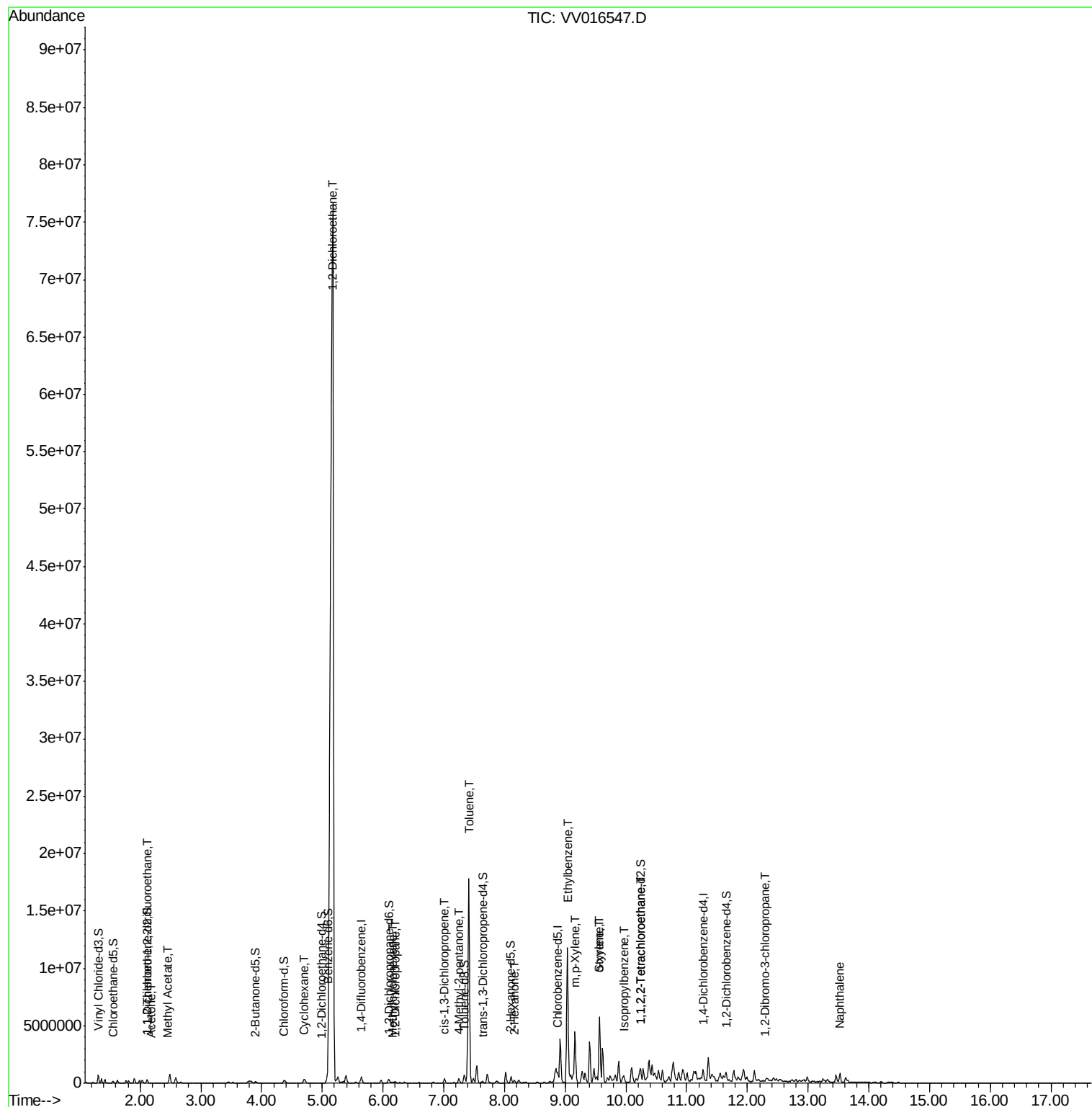
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
66) 1,2-Dibromo-3-chloropropan	12.29	75	1030	1.040	ug/L #	13
69) Naphthalene	13.53	128	478135	38.571	ug/L	99

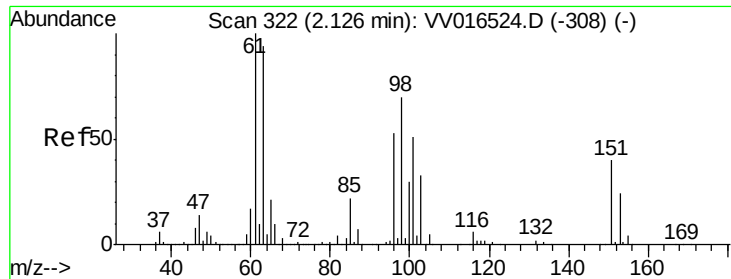
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#10

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

Concen: 0.648 ug/L

RT: 2.12 min Scan# 319

Delta R.T. -0.01 min

Lab File: VV016547.D

Acq: 05 Jun 2020 19:39

Instrument :

MSVOA_V

ClientSampled :

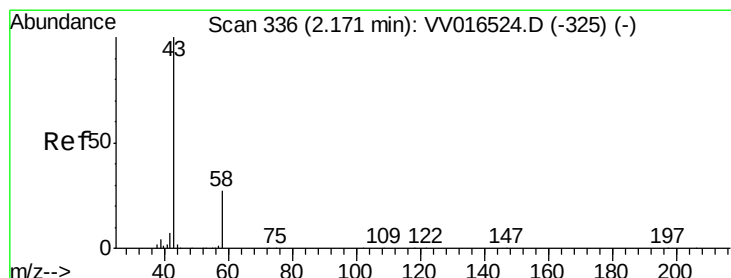
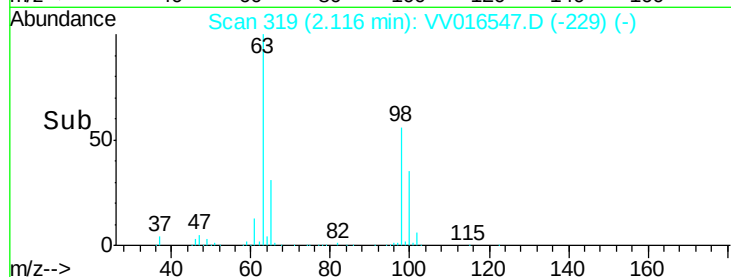
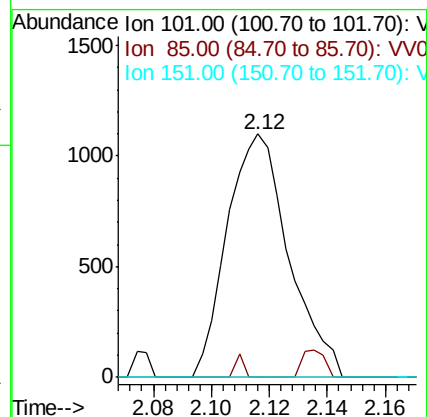
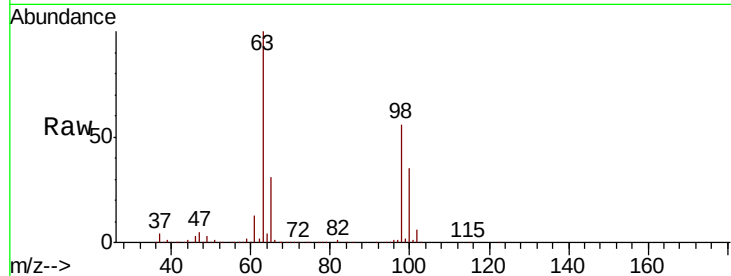
Tot Ion:101 Resp: 1622

Ion Ratio Lower Upper

101 100

85 4.1 35.6 53.4#

151 0.0 61.8 92.8#



#13

Acetone

Concen: 6.282 ug/L

RT: 2.17 min Scan# 337

Delta R.T. 0.00 min

Lab File: VV016547.D

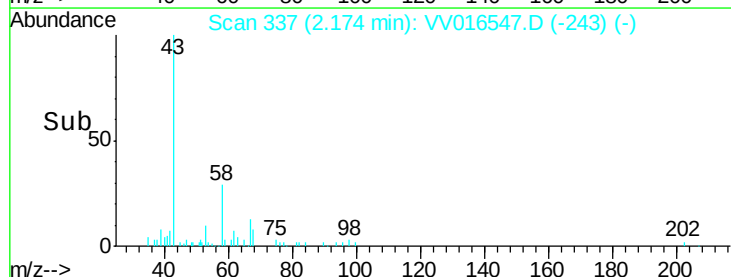
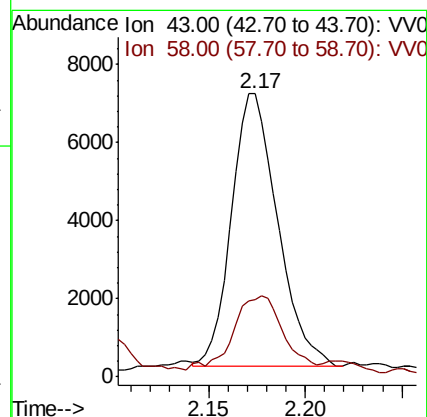
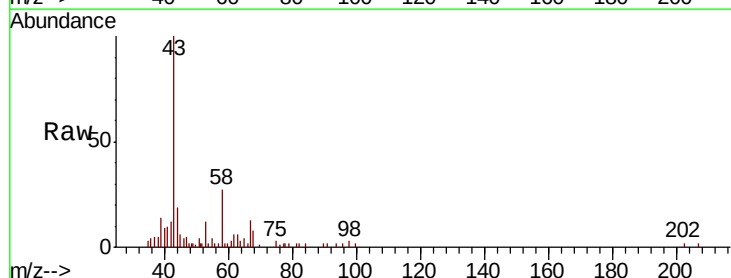
Acq: 05 Jun 2020 19:39

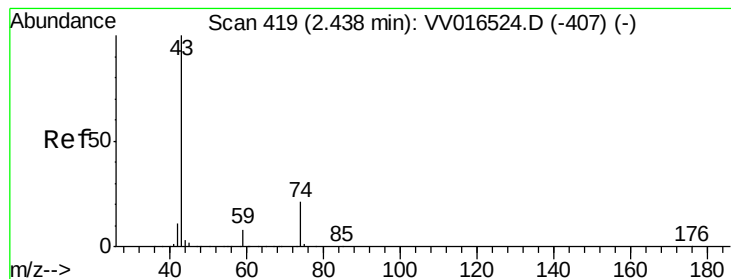
Tgt Ion: 43 Resp: 11539

Ion Ratio Lower Upper

43 100

58 28.5 0.0 57.2





#15

Methvl Acetate

Concen: 3.025 ug/L

RT: 2.44 min Scan# 420

Delta R.T. 0.00 min

Lab File: VV016547.D

Acq: 05 Jun 2020 19:39

Instrument :

MSVOA_V

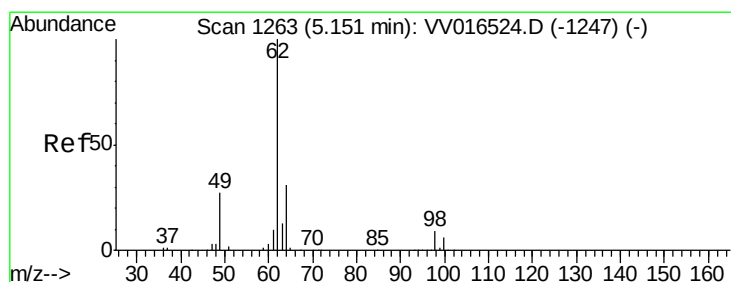
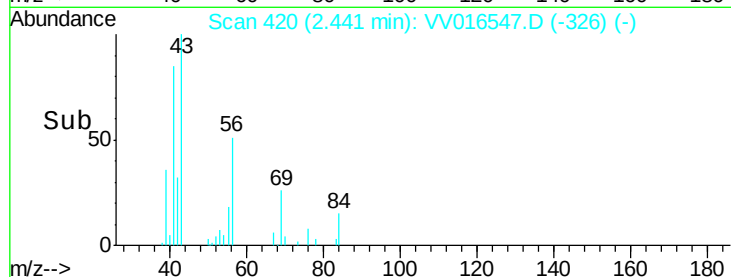
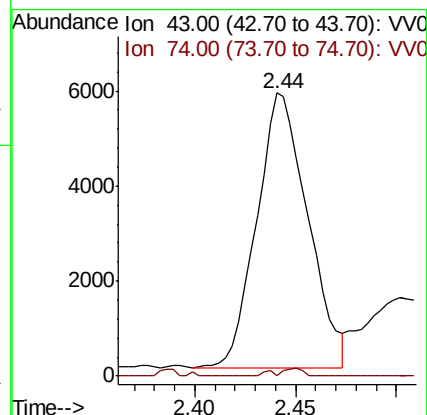
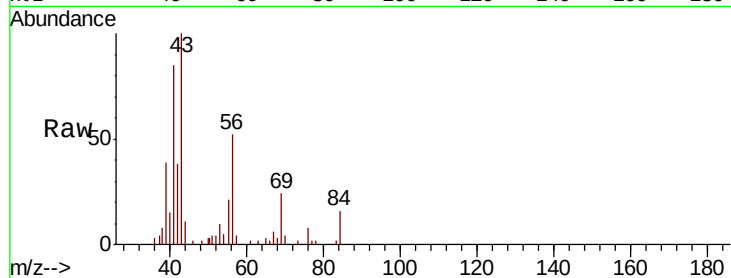
ClientSampleId :

Tot Ion: 43 Resp: 10212

Ion Ratio Lower Upper

43 100

74 0.4 18.1 27.1#



#27

1,2-Dichloroethane

Concen: 333.128 ug/L

RT: 5.17 min Scan# 1269

Delta R.T. 0.02 min

Lab File: VV016547.D

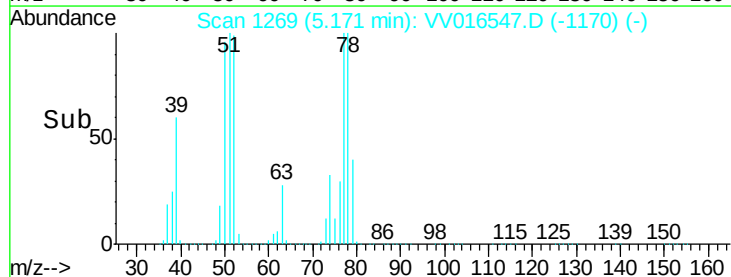
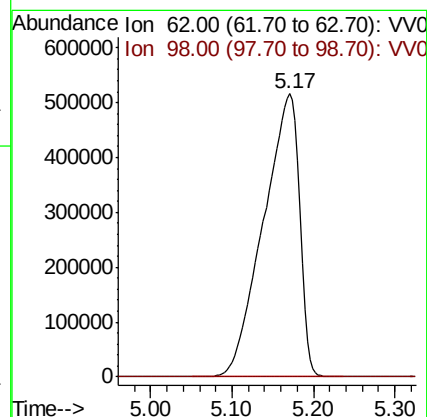
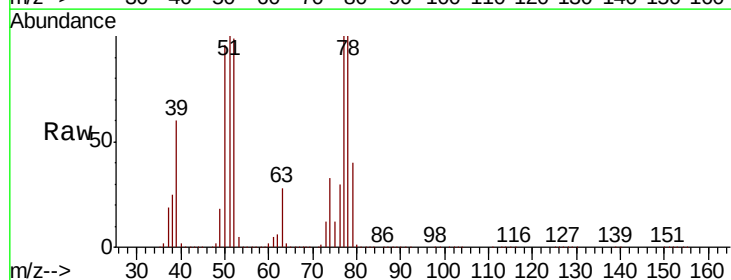
Acq: 05 Jun 2020 19:39

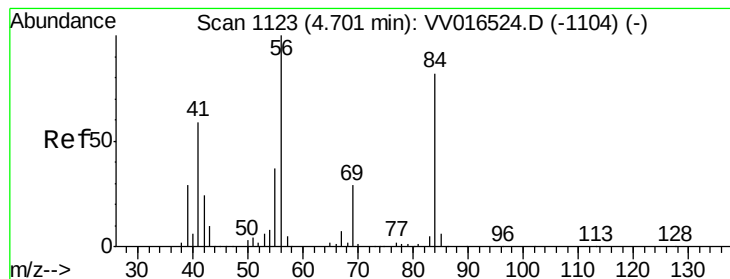
Tgt Ion: 62 Resp: 1594983

Ion Ratio Lower Upper

62 100

98 0.0 6.9 10.3#





#29

Cyclohexane

Concen: 37.312 ug/L

RT: 4.70 min Scan# 1123

Delta R.T. 0.00 min

Lab File: VV016547.D

Acq: 05 Jun 2020 19:39

Instrument :
MSVOA_V
ClientSampled :

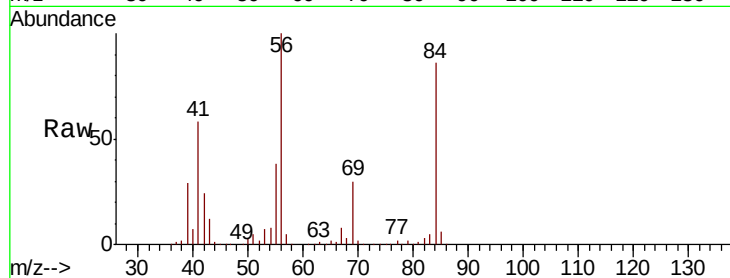
Tot Ion: 56 Resp: 184628

Ion Ratio Lower Upper

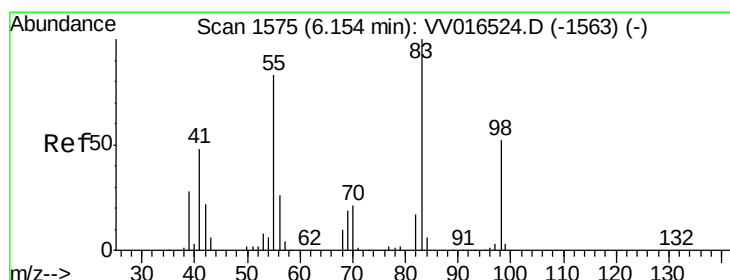
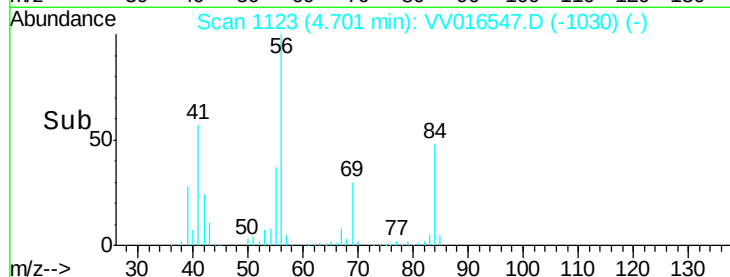
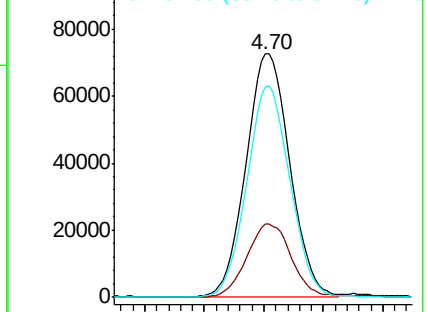
56 100

69 30.5 23.9 35.9

84 85.8 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

Methylcyclohexane

Concen: 6.405 ug/L

RT: 6.15 min Scan# 1575

Delta R.T. 0.00 min

Lab File: VV016547.D

Acq: 05 Jun 2020 19:39

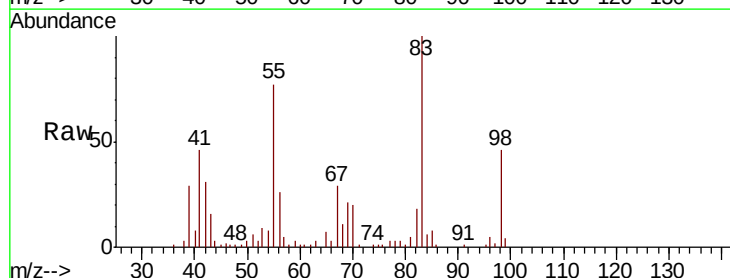
Tgt Ion: 83 Resp: 29579

Ion Ratio Lower Upper

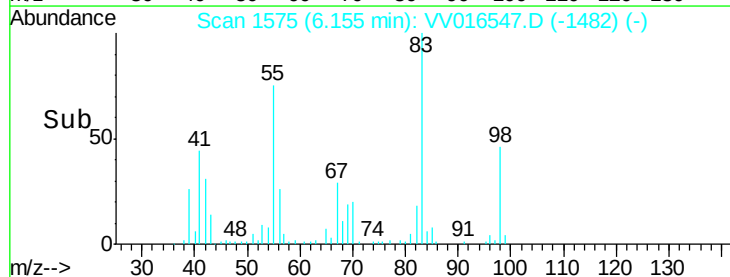
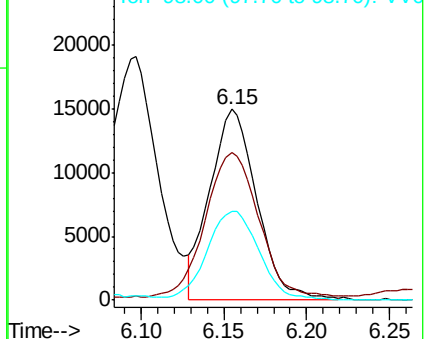
83 100

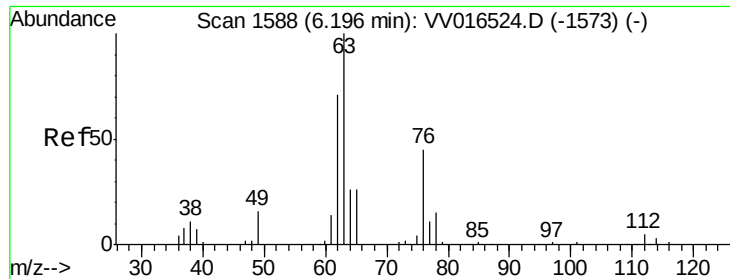
55 86.0 63.4 95.0

98 49.8 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

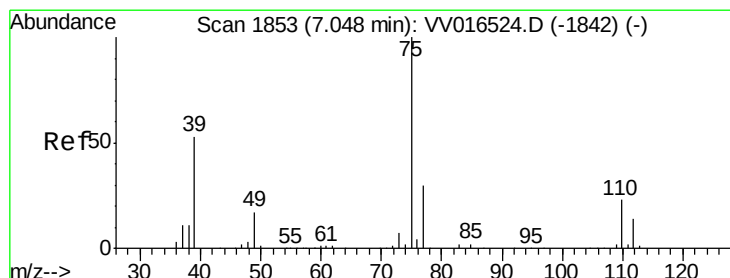
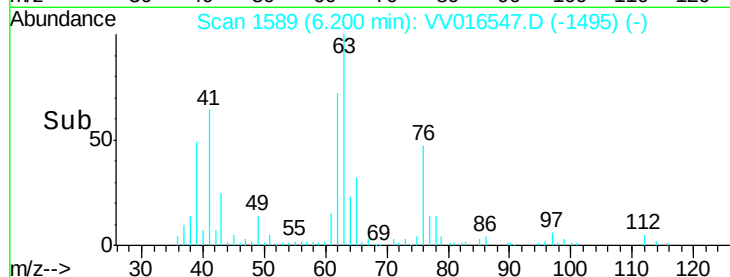
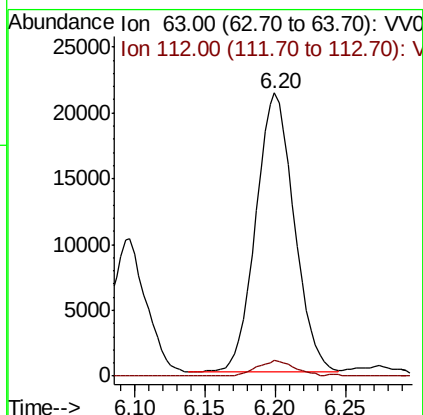
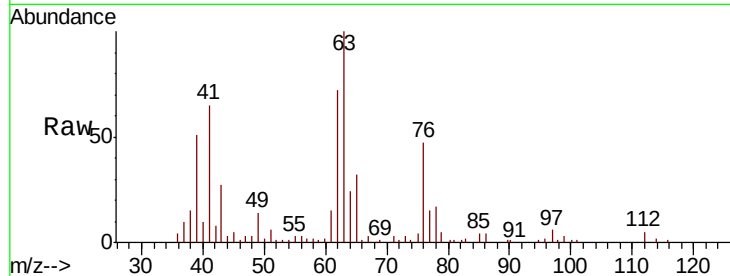




#37
 1,2-Dichloropropane
 Concen: 12.622 ug/L
 RT: 6.20 min Scan# 1589
 Delta R.T. 0.00 min
 Lab File: VV016547.D
 Acq: 05 Jun 2020 19:39

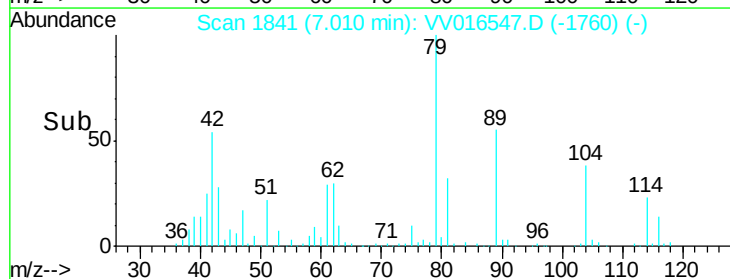
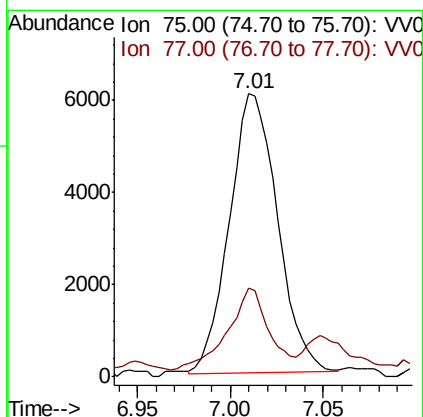
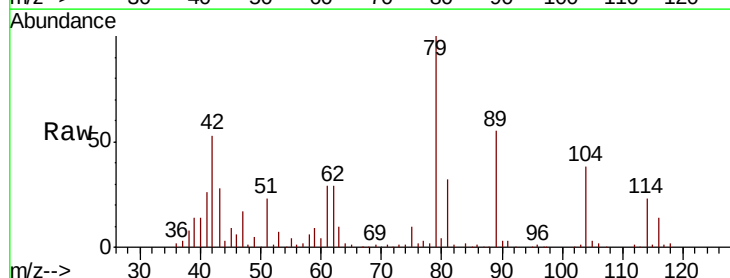
Instrument :
 MSVOA_V
 ClientSampleId :

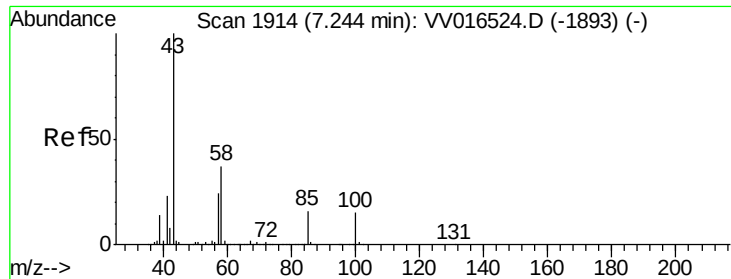
Tot Ion: 63 Resp: 40339
 Ion Ratio Lower Upper
 63 100
 112 5.4 3.9 5.9



#39
 cis-1,3-Dichloropropene
 Concen: 2.359 ug/L
 RT: 7.01 min Scan# 1841
 Delta R.T. -0.04 min
 Lab File: VV016547.D
 Acq: 05 Jun 2020 19:39

Tgt Ion: 75 Resp: 10991
 Ion Ratio Lower Upper
 75 100
 77 31.2 22.0 41.0

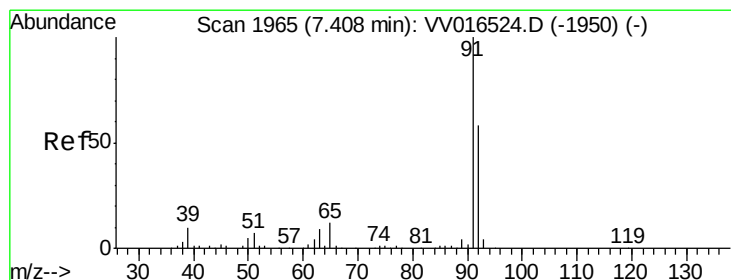
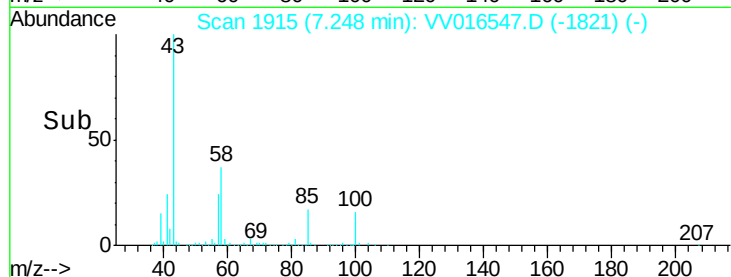
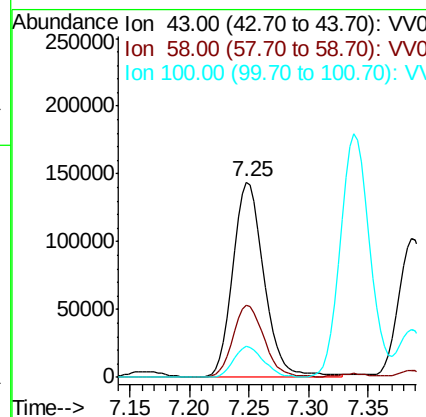
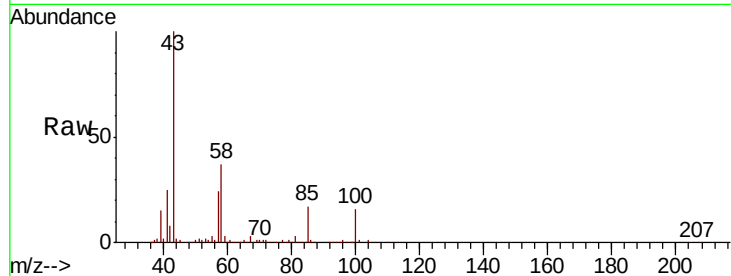




#40
4-Methyl-2-pentanone
Concen: 59.456 ug/L
RT: 7.25 min Scan# 1915
Delta R.T. 0.00 min
Lab File: VV016547.D
Acq: 05 Jun 2020 19:39

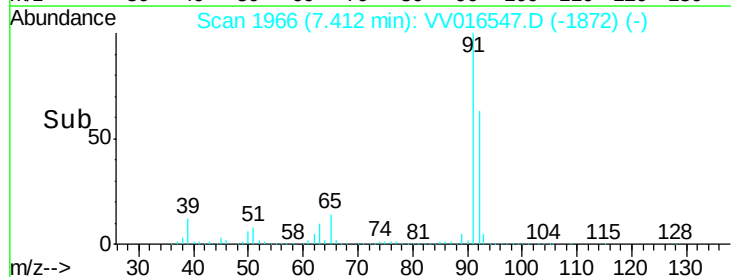
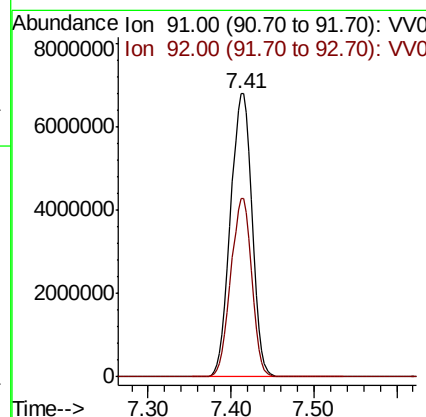
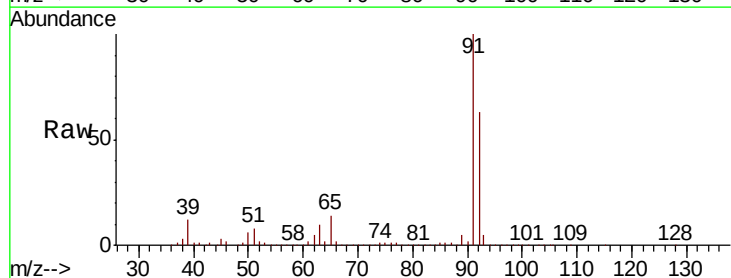
Instrument :
MSVOA_V
ClientSampled :

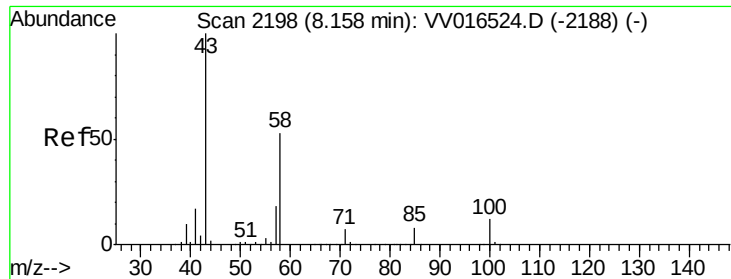
Tot Ion: 43 Resp: 261458
Ion Ratio Lower Upper
43 100
58 36.9 29.9 44.9
100 15.3 11.9 17.9



#42
Toluene
Concen: 947.897 ug/L
RT: 7.41 min Scan# 1966
Delta R.T. 0.00 min
Lab File: VV016547.D
Acq: 05 Jun 2020 19:39

Tgt Ion: 91 Resp: 12315743
Ion Ratio Lower Upper
91 100
92 63.1 40.9 75.9

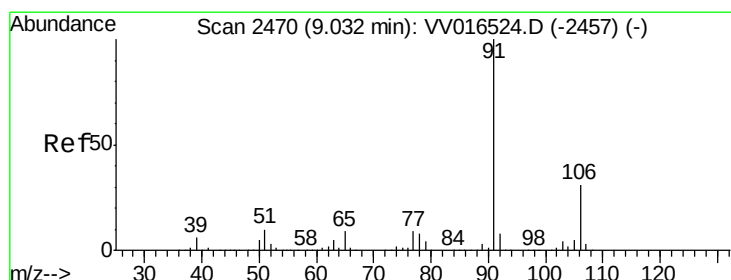
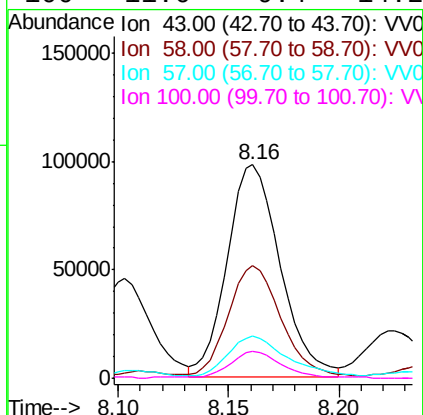
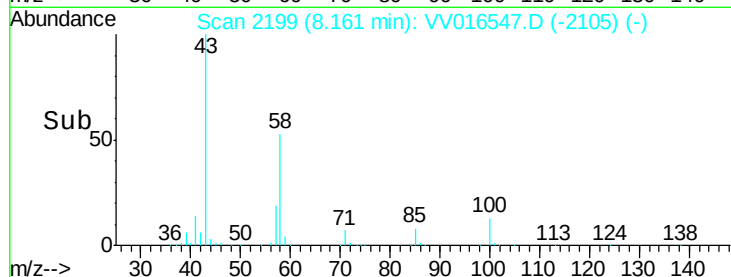
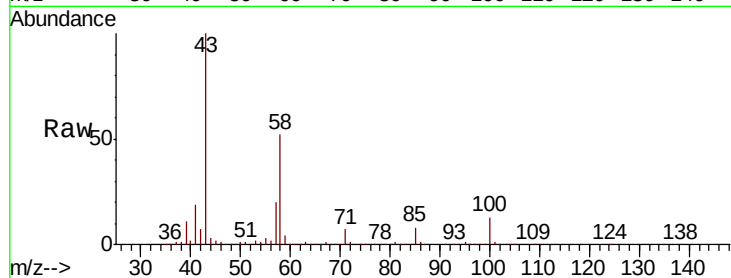




#48
2-Hexanone
Concen: 48.065 ug/L
RT: 8.16 min Scan# 2199
Delta R.T. 0.00 min
Lab File: VV016547.D
Acq: 05 Jun 2020 19:39

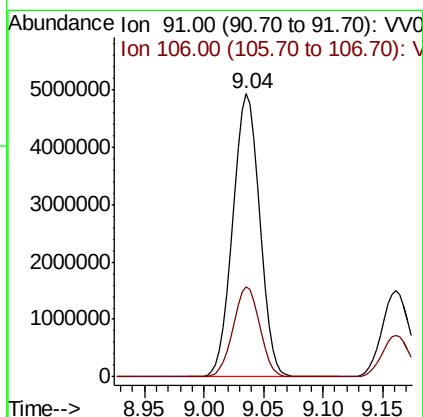
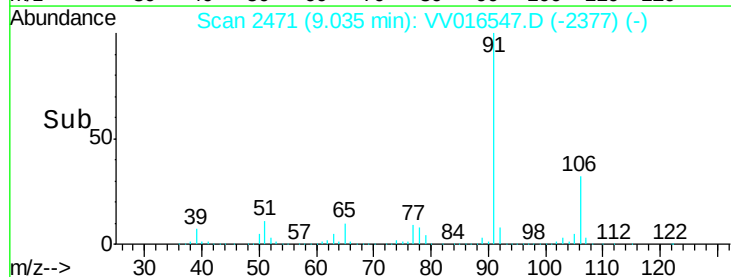
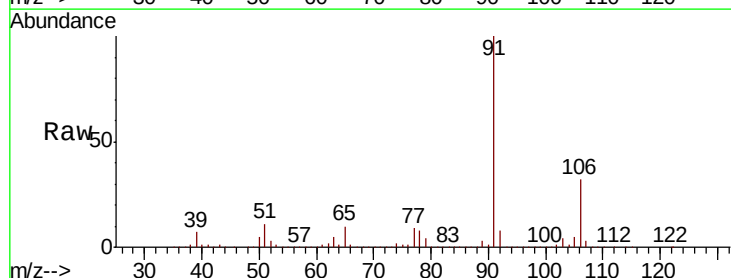
Instrument :
MSVOA_V
ClientSampleId :

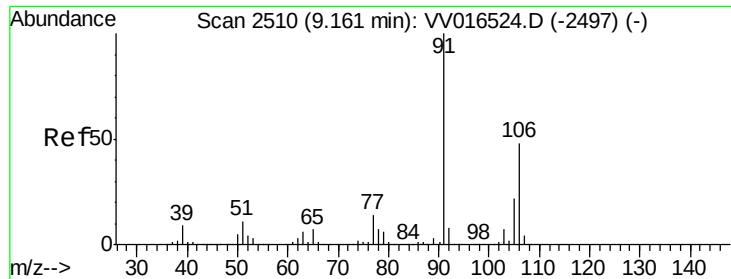
Tot Ion: 43 Resp: 164324
Ion Ratio Lower Upper
43 100
58 53.5 42.7 64.1
57 22.2 14.5 21.7#
100 11.6 9.4 14.2



#52
Ethylbenzene
Concen: 546.641 ug/L
RT: 9.04 min Scan# 2471
Delta R.T. 0.00 min
Lab File: VV016547.D
Acq: 05 Jun 2020 19:39

Tgt Ion: 91 Resp: 7730074
Ion Ratio Lower Upper
91 100
106 31.8 21.8 40.4





#53

m,p-Xylene

Concen: 217.829 ug/L

RT: 9.16 min Scan# 2510

Delta R.T. 0.00 min

Lab File: VV016547.D

Acq: 05 Jun 2020 19:39

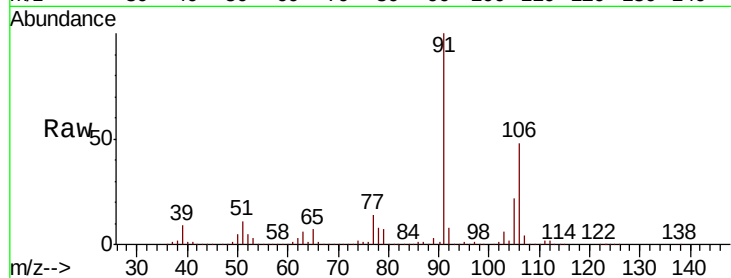
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:106 Resp: 1161495

Ion Ratio Lower Upper

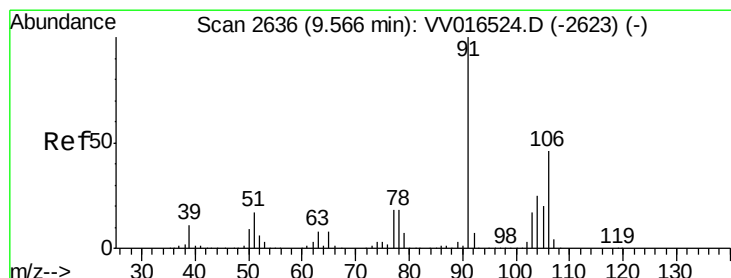
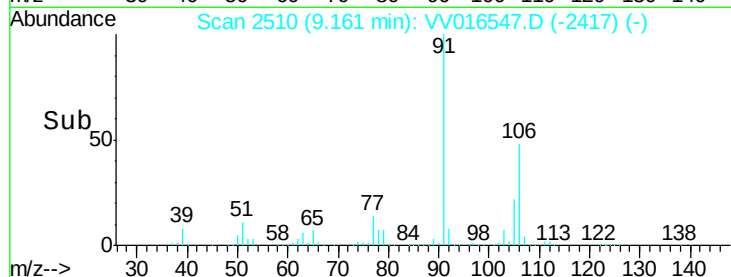
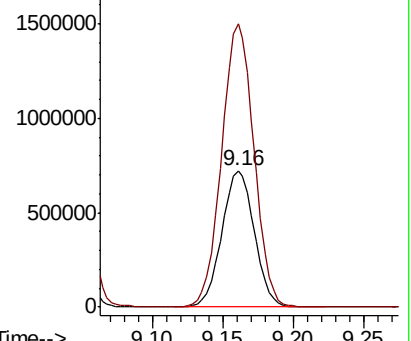
106 100

91 206.9 142.5 264.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#54

o-xylene

Concen: 272.930 ug/L

RT: 9.57 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VV016547.D

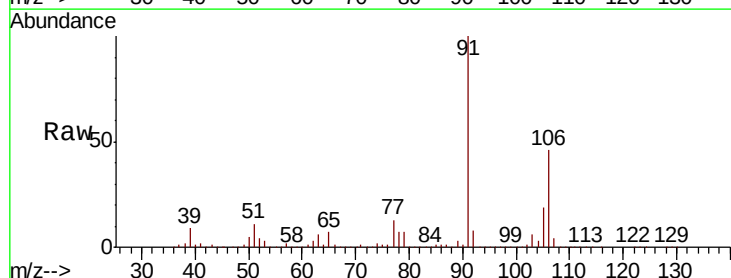
Acq: 05 Jun 2020 19:39

Tgt Ion:106 Resp: 1409439

Ion Ratio Lower Upper

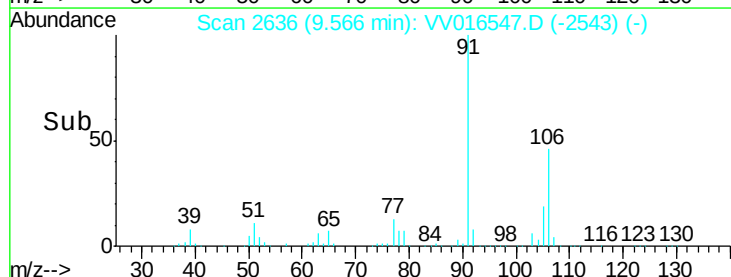
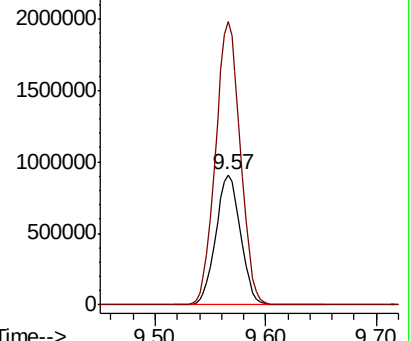
106 100

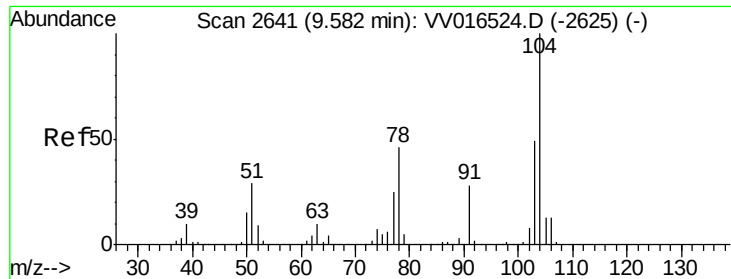
91 217.8 152.5 283.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0





#55

Stvrene

Concen: 14.600 ug/L

RT: 9.57 min Scan# 2638

Delta R.T. -0.01 min

Lab File: VV016547.D

Acq: 05 Jun 2020 19:39

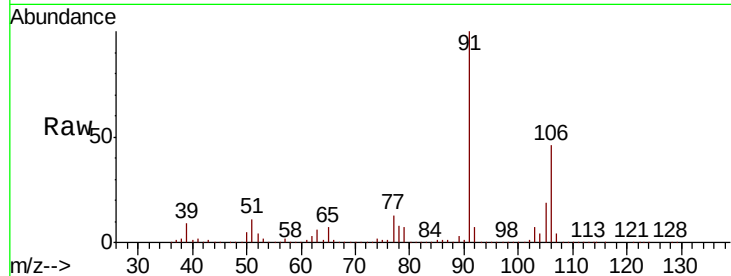
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion:104 Resp: 132080

Ion Ratio Lower Upper

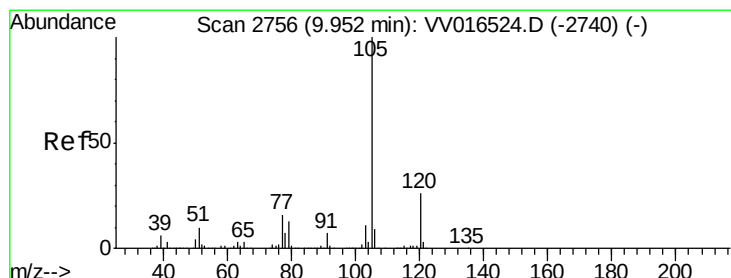
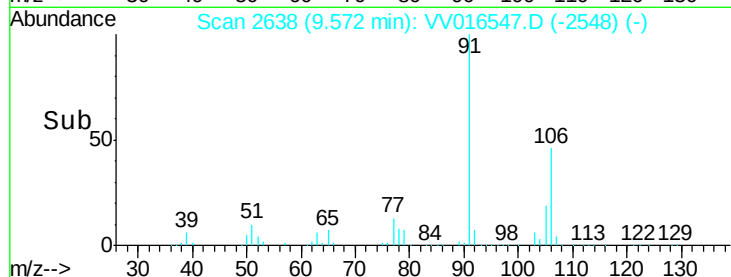
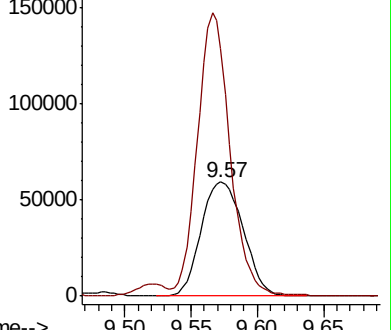
104 100

78 216.0 31.9 59.3#



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0



#56

Isopropylbenzene

Concen: 12.524 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. 0.00 min

Lab File: VV016547.D

Acq: 05 Jun 2020 19:39

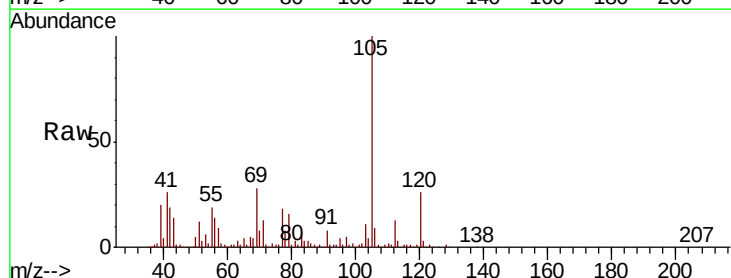
Tgt Ion:105 Resp: 167993

Ion Ratio Lower Upper

105 100

120 26.3 21.0 31.6

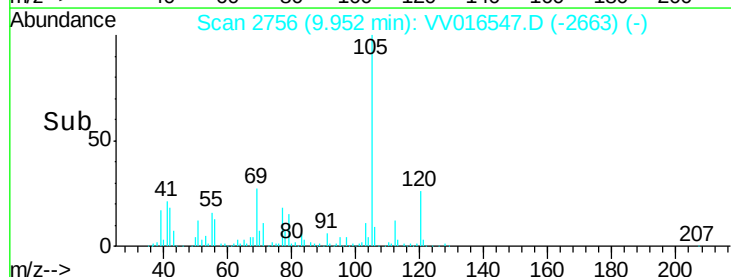
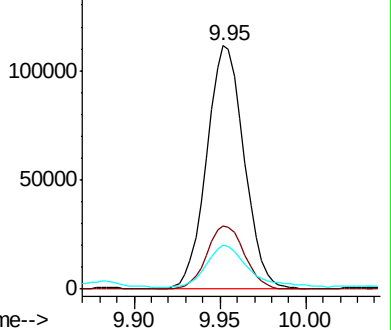
77 19.7 13.0 19.4#

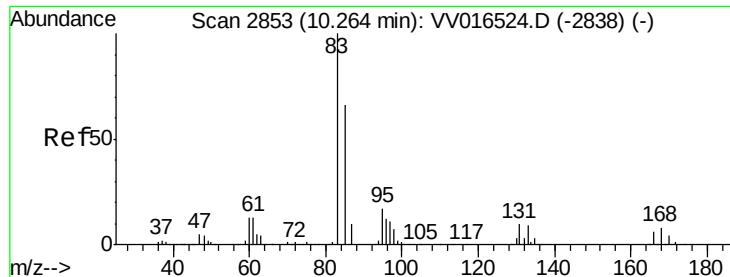


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): VV0





#58

1,1,2,2-Tetrachloroethane

Concen: 3.166 ug/L

RT: 10.25 min Scan# 2848

Delta R.T. -0.02 min

Lab File: VV016547.D

Acq: 05 Jun 2020 19:39

Instrument :

MSVOA_V

ClientSampled :

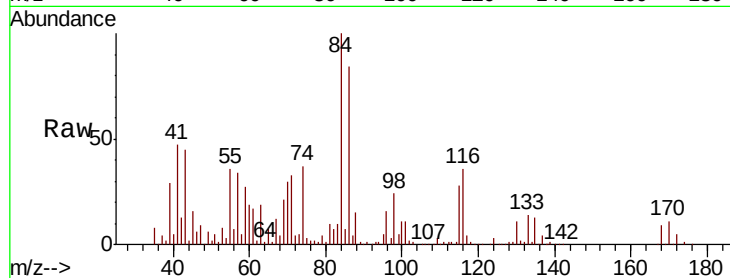
Tot Ion: 83 Resp: 15695

Ion Ratio Lower Upper

83 100

85 66.3 44.0 81.6

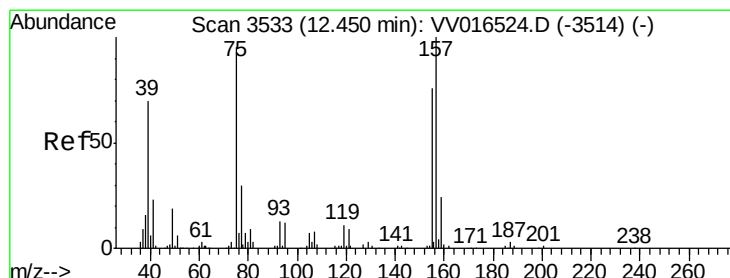
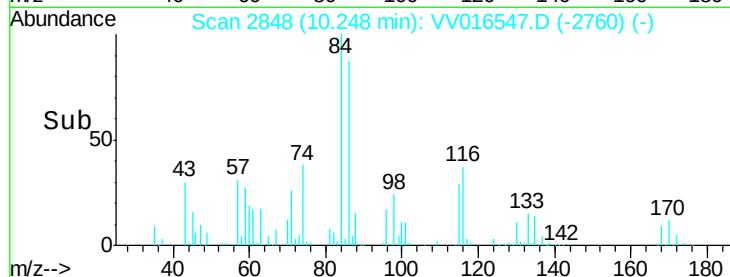
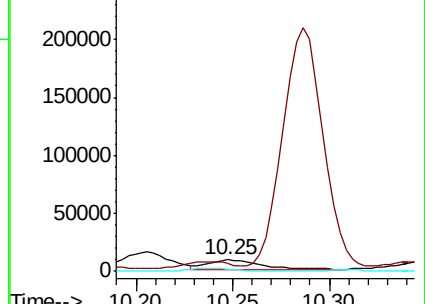
131 20.2 7.6 11.4#



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): VV0



#66

1,2-Dibromo-3-chloropropane

Concen: 1.040 ug/L

RT: 12.29 min Scan# 3482

Delta R.T. -0.16 min

Lab File: VV016547.D

Acq: 05 Jun 2020 19:39

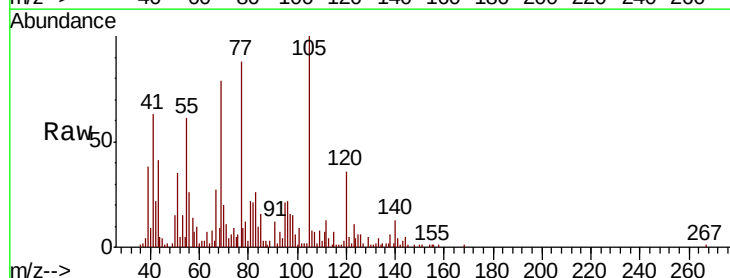
Tgt Ion: 75 Resp: 1030

Ion Ratio Lower Upper

75 100

155 20.7 66.2 99.2#

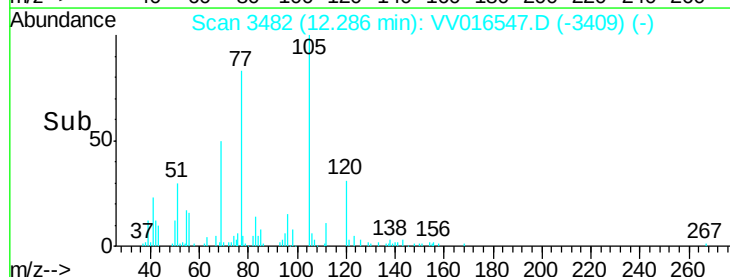
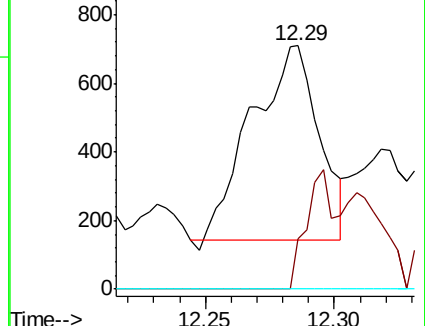
157 0.0 83.0 124.4#

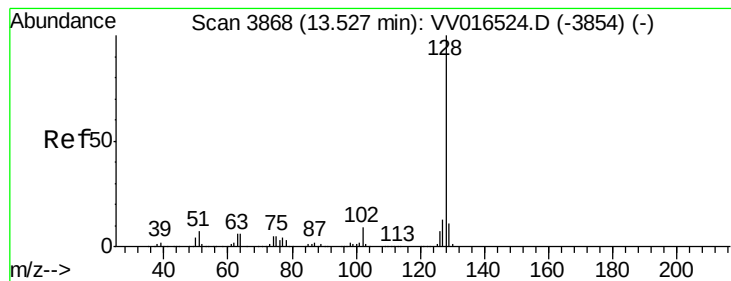


Abundance Ion 75.00 (74.70 to 75.70): VV0

Ion 155.00 (154.70 to 155.70): VV0

Ion 157.00 (156.70 to 157.70): VV0





#69

Naphthalene

Concen: 38.571 ug/L

RT: 13.53 min Scan# 3868

Delta R.T. 0.00 min

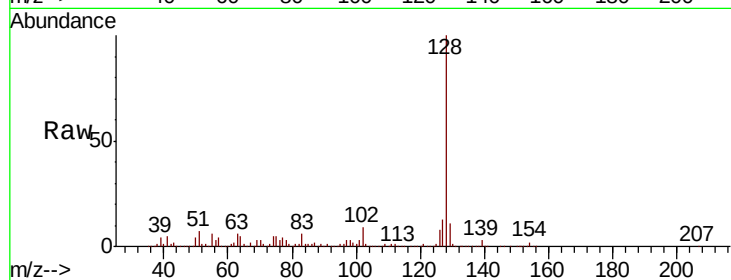
Lab File: VV016547.D

Acq: 05 Jun 2020 19:39

Instrument :

MSVOA_V

ClientSampleId :



Tot Ion:128 Resp: 478135

Ion Ratio Lower Upper

128 100

127 13.2 10.2 15.4

129 10.9 8.7 13.1

