

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV070220\
 Data File : VV017319.D
 Acq On : 02 Jul 2020 20:37
 Operator : SY/MD
 Sample : L3154-05DL 20X
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :

Quant Time: Jul 03 06:18:21 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Fri Jul 03 06:15:26 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.64	114	170910	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.87	117	164236	5.00	ug/L	0.00
61) 1,4-Dichlorobenzene-d4	11.27	152	79059	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	43072	4.20	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	84.00%
7) Chloroethane-d5	1.58	69	34500	4.63	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	92.60%
11) 1,1-Dichloroethene-d2	2.13	63	67796	3.47	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	69.40%
20) 2-Butanone-d5	3.92	46	91716	35.08	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	70.16%
24) Chloroform-d	4.38	84	95176	4.34	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	86.80%
26) 1,2-Dichloroethane-d4	5.06	65	51864	4.46	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	89.20%
32) Benzene-d6	5.08	84	169316	3.98	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	79.60%
36) 1,2-Dichloropropane-d6	6.10	67	48471	3.80	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	76.00%
41) Toluene-d8	7.34	98	160180	4.01	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	80.20%
45) trans-1,3-Dichloropropene-	7.65	79	19214	3.62	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	72.40%
48) 2-Hexanone-d5	8.11	63	62726	30.99	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	61.98%
59) 1,1,2,2-Tetrachloroethane-	10.24	84	33840	3.99	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	79.80%
65) 1,2-Dichlorobenzene-d4	11.65	152	64253	4.40	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.00%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
5) Vinyl chloride	1.32	62	86503	7.713	ug/L	98
8) Chloroethane	1.57	64	23822	3.844	ug/L #	52
10) 1,1,2-Trichloro-1,2,2-trif	2.12	101	731	0.081	ug/L #	26
12) 1,1-Dichloroethene	2.13	96	1998	0.244	ug/L #	1
14) Carbon disulfide	2.32	76	1101	0.045	ug/L #	22
15) Methyl Acetate	2.45	43	790	0.245	ug/L #	62
16) Methylene chloride	2.52	84	9661	1.100	ug/L	98
18) trans-1,2-Dichloroethene	2.78	96	20610	2.371	ug/L	95
22) cis-1,2-Dichloroethene	3.94	96	95454	8.031	ug/L #	96
33) Benzene	5.13	78	3069	0.071	ug/L	100
34) Trichloroethene	5.94	95	22873	1.816	ug/L	96
35) Methylcyclohexane	6.10	83	13520	0.691	ug/L #	19
37) 1,2-Dichloropropane	6.09	63	6613	0.621	ug/L #	85
39) cis-1,3-Dichloropropene	7.01	75	1963	0.124	ug/L #	61
42) Toluene	7.42	91	5679	0.114	ug/L	97
43) 1,3,5-Trimethylbenzene	11.36	105	2707	0.061	ug/L	90
44) 1,2,4-Trimethylbenzene	11.36	105	2707	0.059	ug/L	95

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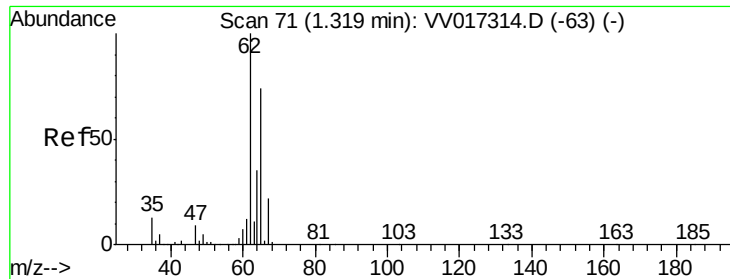
Instrument :
MSVOA_V
ClientSampleId :

Quant Time: Jul 03 06:18:21 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR061720WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Jul 03 06:15:26 2020
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
50) 2-Hexanone	8.16	43	5877	1.343	ug/L #	79
55) m,p-xylene	9.16	106	1507	0.072	ug/L	72

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

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ALS Vial : 23 Sample Multiplier: 1



#5

Vinyl chloride

Concen: 7.713 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV017319.D

Acq: 02 Jul 2020 20:37

Instrument :

MSVOA_V

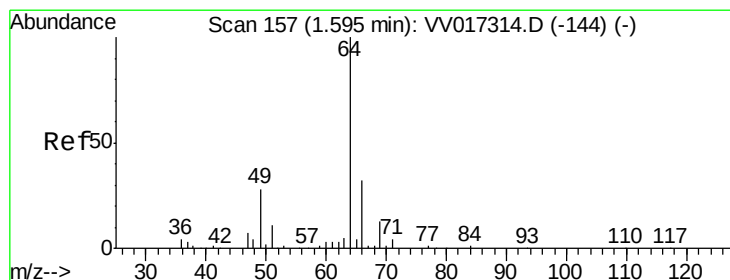
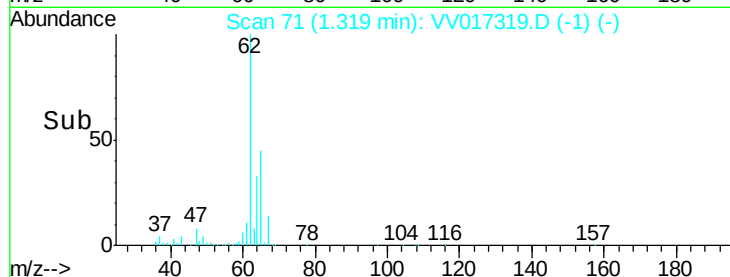
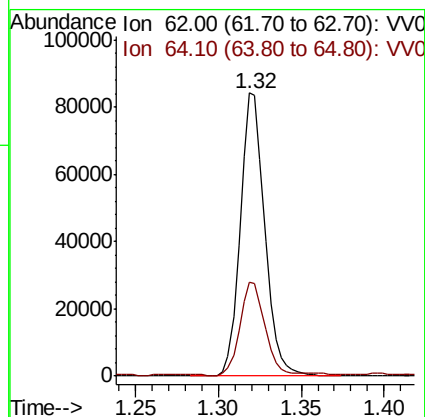
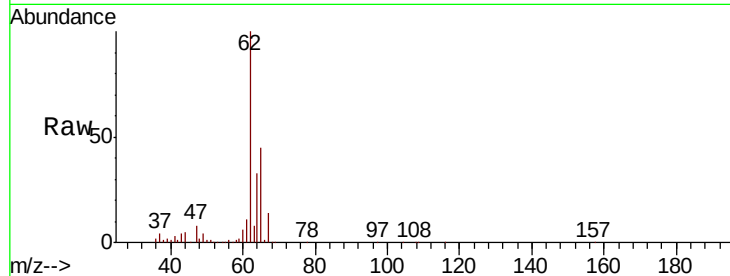
ClientSampleId :

Tot Ion: 62 Resp: 86503

Ion Ratio Lower Upper

62 100

64 33.3 22.5 41.7



#8

Chloroethane

Concen: 3.844 ug/L

RT: 1.57 min Scan# 149

Delta R.T. -0.03 min

Lab File: VV017319.D

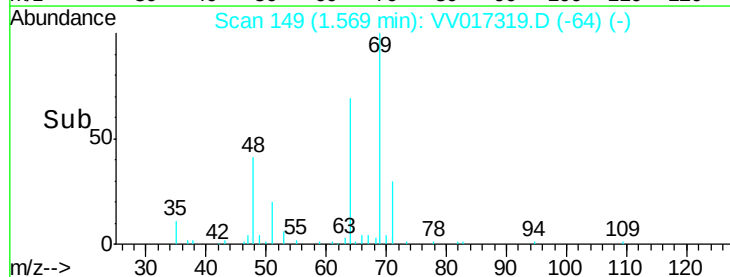
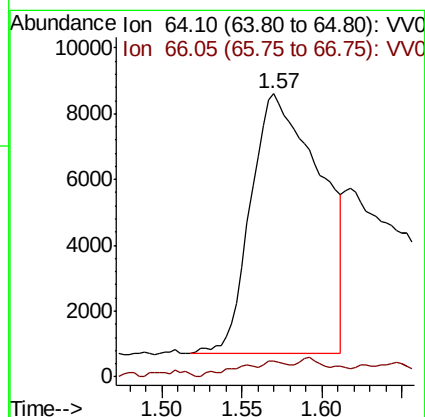
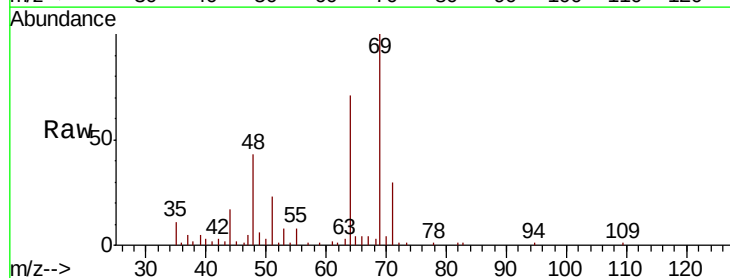
Acq: 02 Jul 2020 20:37

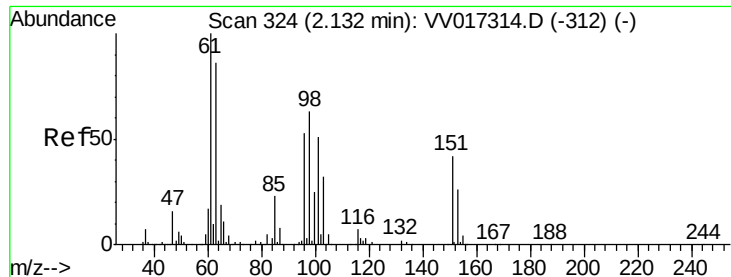
Tgt Ion: 64 Resp: 23822

Ion Ratio Lower Upper

64 100

66 5.6 22.8 42.4#





#10

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

Concen: 0.081 ug/L

RT: 2.12 min Scan# 321

Delta R.T. -0.01 min

Lab File: VV017319.D

Acq: 02 Jul 2020 20:37

Instrument :

MSVOA_V

ClientSampleId :

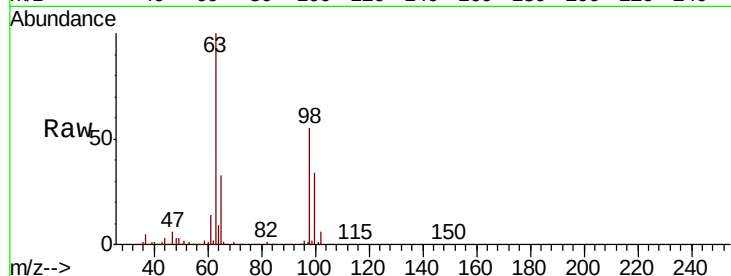
Tot Ion:101 Resp: 731

Ion Ratio Lower Upper

101 100

85 6.7 35.4 53.2#

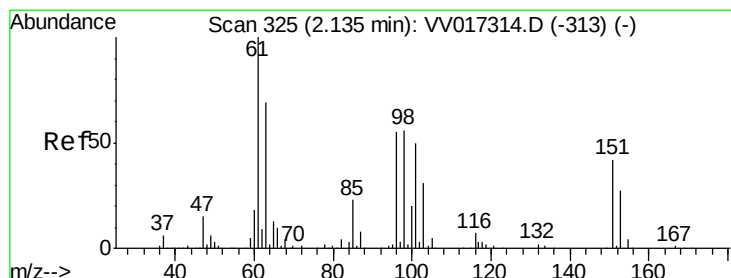
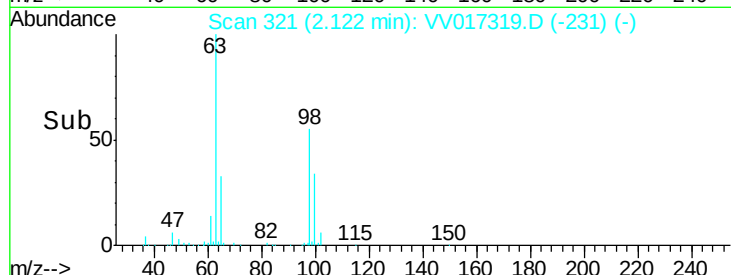
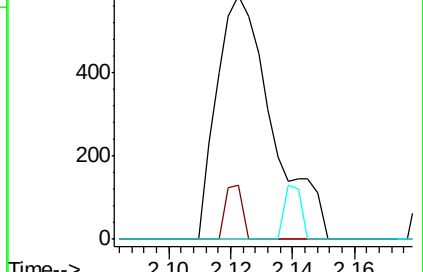
151 6.6 63.9 95.9#



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: 0.244 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV017319.D

Acq: 02 Jul 2020 20:37

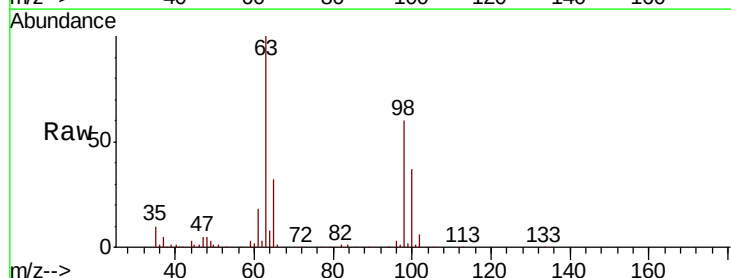
Tgt Ion: 96 Resp: 1998

Ion Ratio Lower Upper

96 100

61 550.4 125.0 232.2#

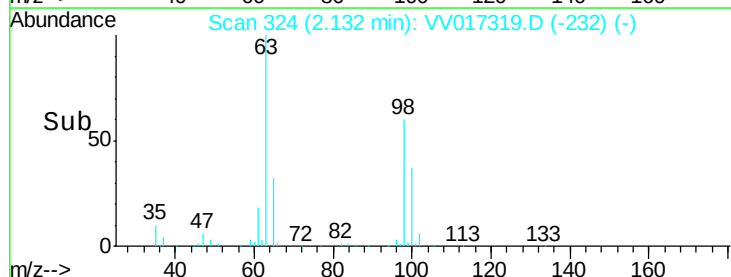
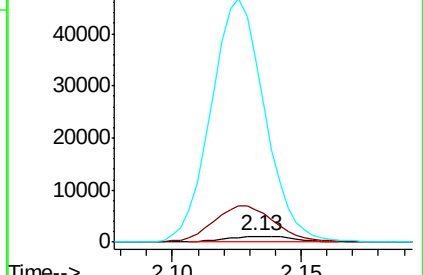
63 3097.7 109.8 203.8#

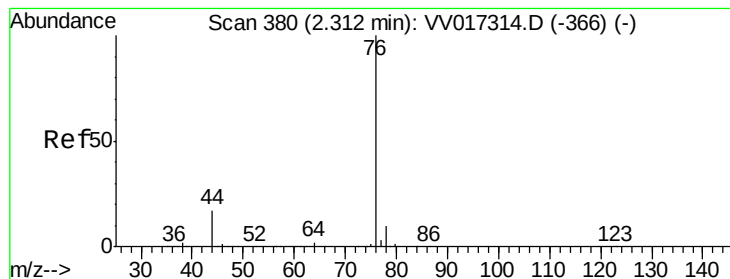


Abundance Ion 96.00 (95.70 to 96.70): VV0

Ion 61.05 (60.75 to 61.75): VV0

Ion 63.00 (62.70 to 63.70): VV0





#14

Carbon disulfide

Concen: 0.045 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VV017319.D

Acq: 02 Jul 2020 20:37

Instrument :

MSVOA_V

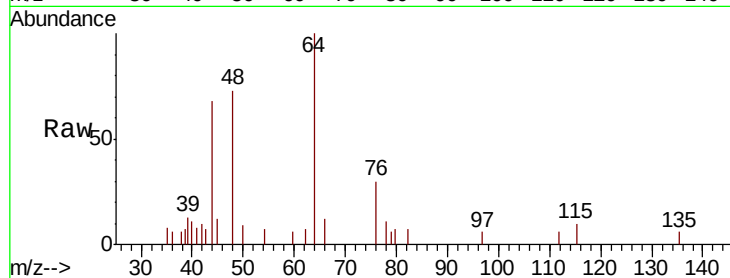
ClientSampled :

Tot Ion: 76 Resp: 1101

Ion Ratio Lower Upper

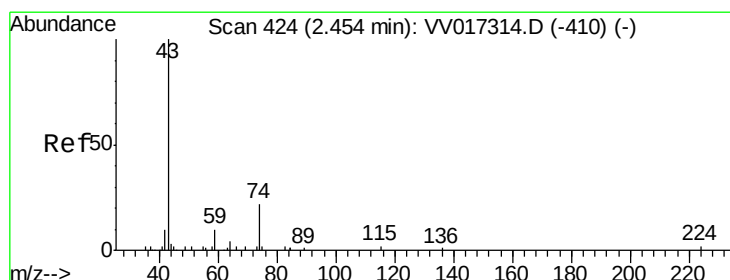
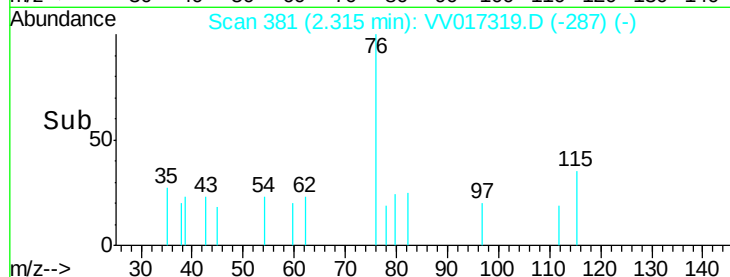
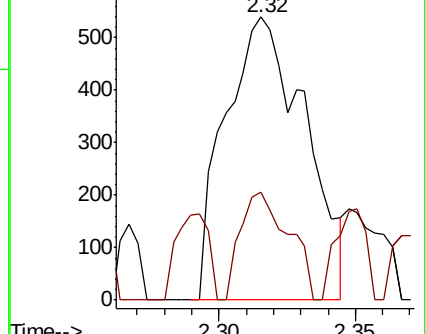
76 100

78 38.2 7.7 11.5#



Abundance Ion 76.05 (75.75 to 76.75): VV0

Ion 78.00 (77.70 to 78.70): VV0



#15

Methyl Acetate

Concen: 0.245 ug/L

RT: 2.45 min Scan# 422

Delta R.T. -0.01 min

Lab File: VV017319.D

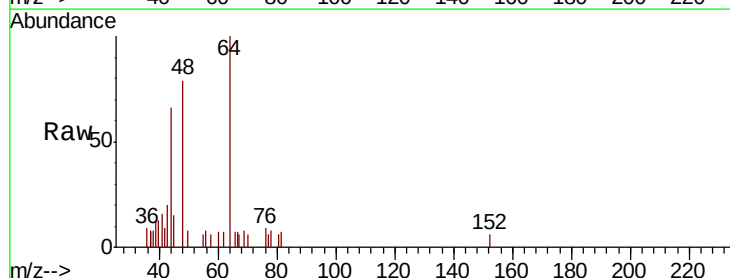
Acq: 02 Jul 2020 20:37

Tgt Ion: 43 Resp: 790

Ion Ratio Lower Upper

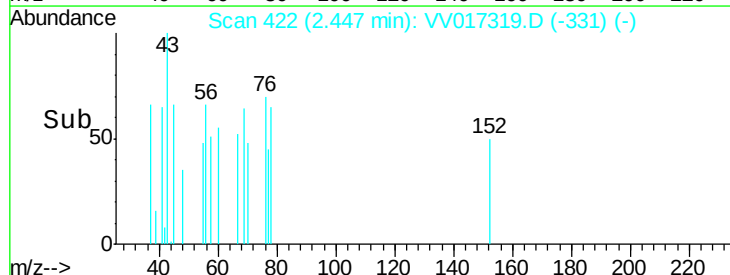
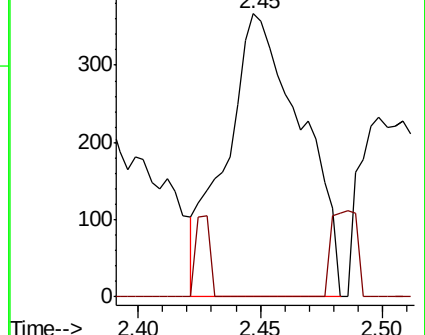
43 100

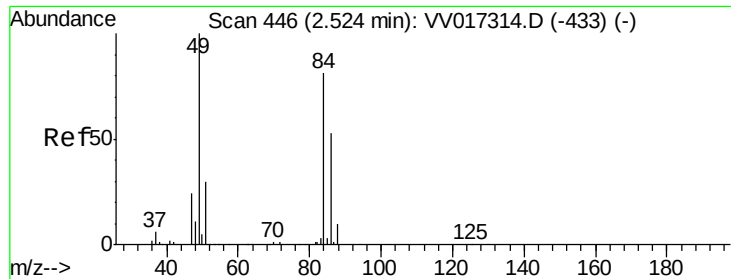
74 5.1 19.1 28.7#



Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 74.05 (73.75 to 74.75): VV0

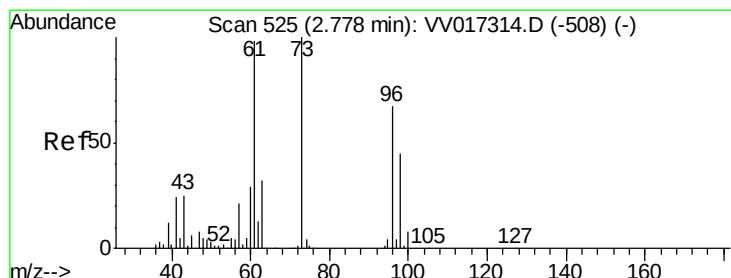
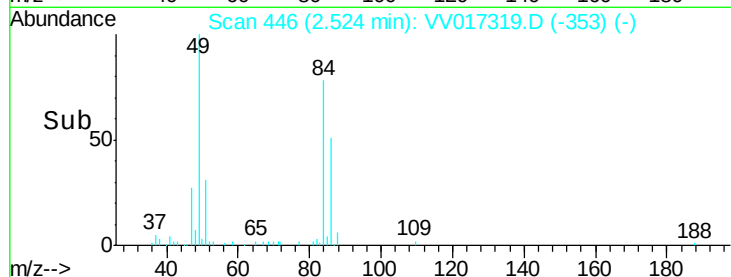
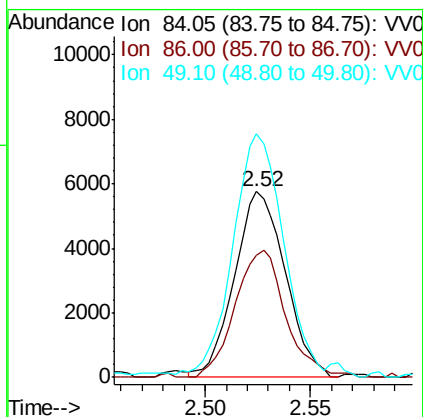
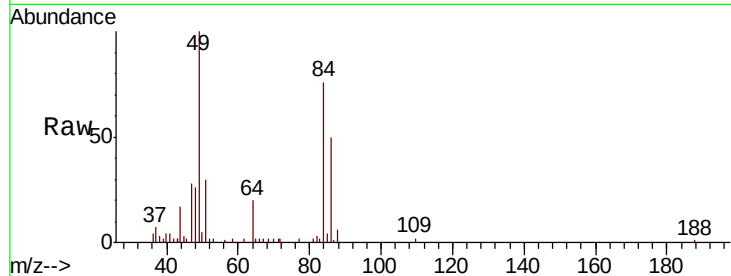




#16
Methylene chloride
Concen: 1.100 ug/L
RT: 2.52 min Scan# 446
Delta R.T. -0.00 min
Lab File: VV017319.D
Acq: 02 Jul 2020 20:37

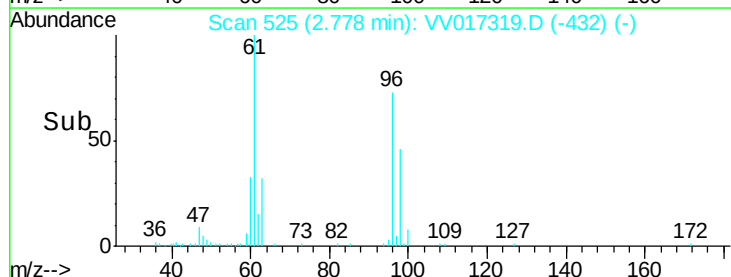
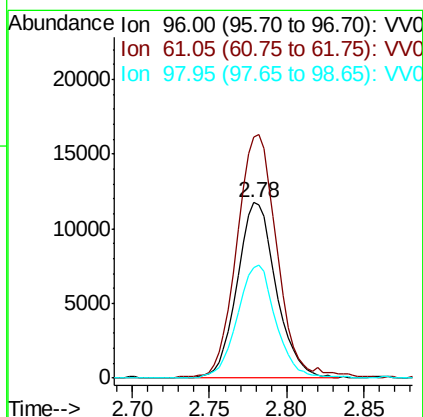
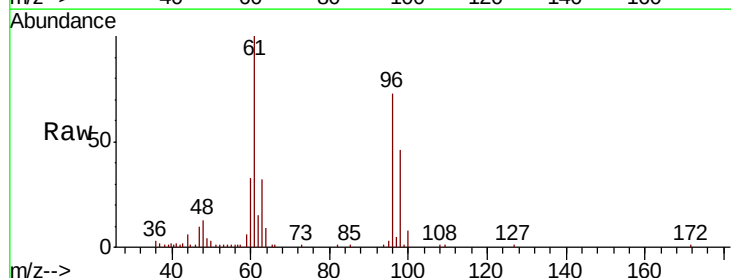
Instrument :
MSVOA_V
ClientSampleId :

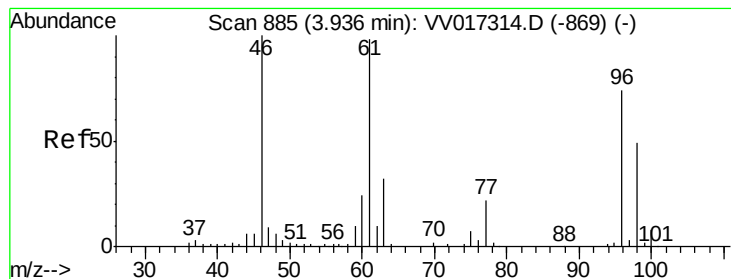
Tot Ion: 84 Resp: 9661
Ion Ratio Lower Upper
84 100
86 65.6 45.8 85.0
49 131.2 89.6 166.4



#18
trans-1,2-Dichloroethene
Concen: 2.371 ug/L
RT: 2.78 min Scan# 525
Delta R.T. -0.00 min
Lab File: VV017319.D
Acq: 02 Jul 2020 20:37

Tgt Ion: 96 Resp: 20610
Ion Ratio Lower Upper
96 100
61 137.7 102.3 189.9
98 63.3 44.7 82.9





#22

cis-1,2-Dichloroethene

Concen: 8.031 ug/L

RT: 3.94 min Scan# 887

Delta R.T. 0.01 min

Lab File: VV017319.D

Acq: 02 Jul 2020 20:37

Instrument :
MSVOA_V
ClientSampleId :

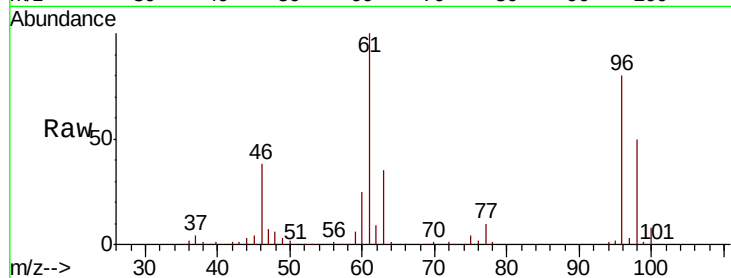
Tot Ion: 96 Resp: 95454

Ion Ratio Lower Upper

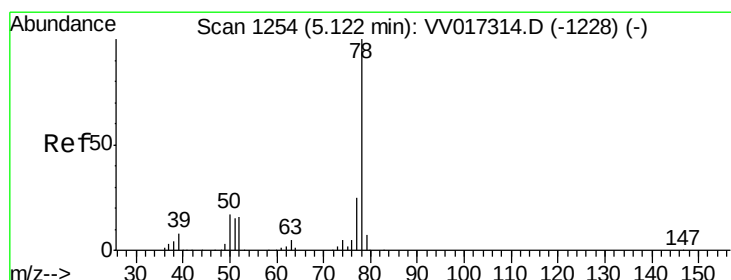
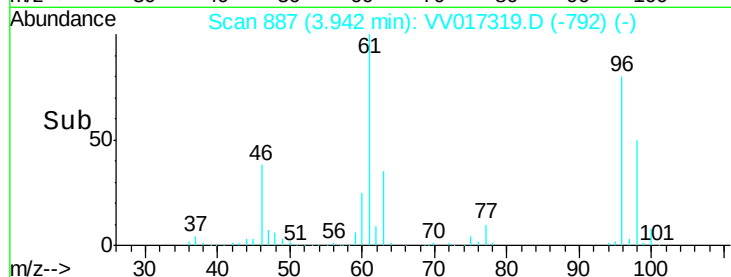
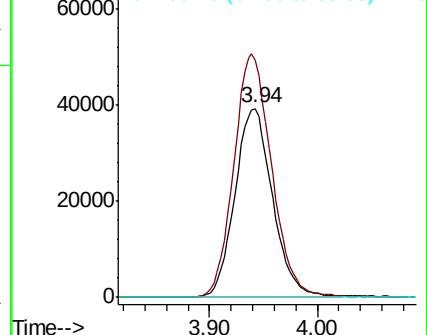
96 100

61 125.7 91.0 169.0

68 0.3 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



#33

Benzene

Concen: 0.071 ug/L

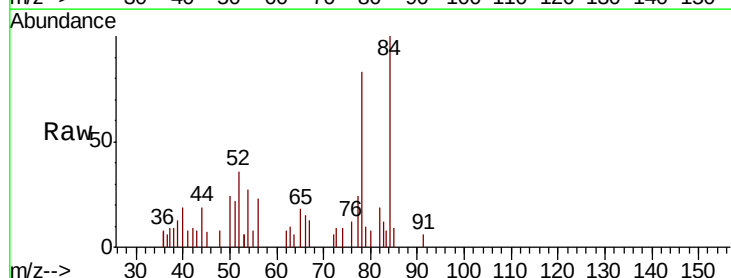
RT: 5.13 min Scan# 1255

Delta R.T. 0.00 min

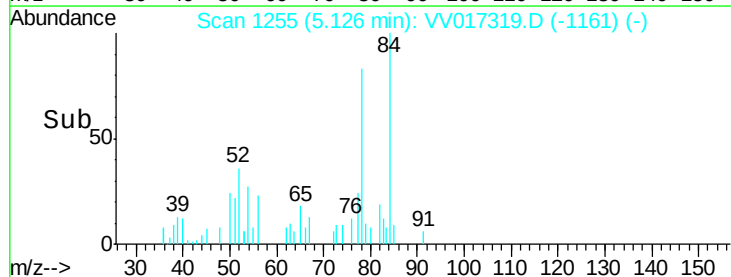
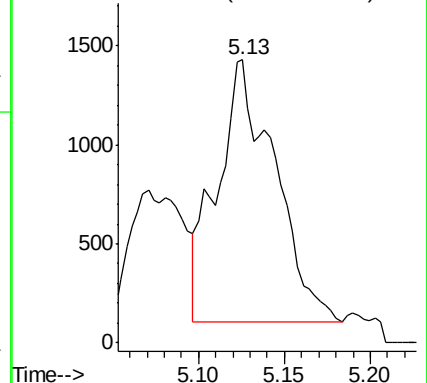
Lab File: VV017319.D

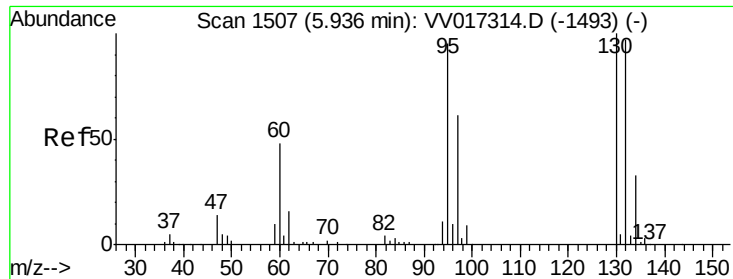
Acq: 02 Jul 2020 20:37

Tgt Ion: 78 Resp: 3069



Abundance Ion 78.10 (77.80 to 78.80): VV0

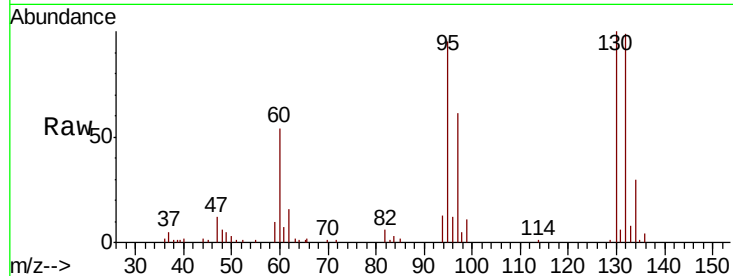




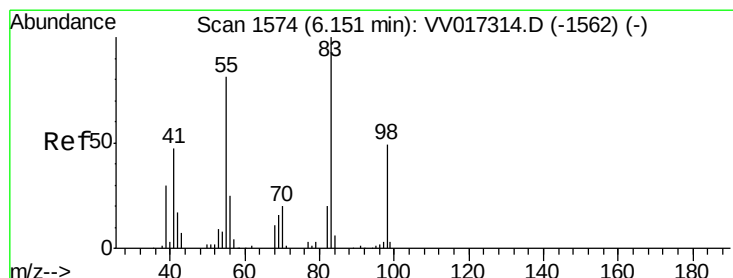
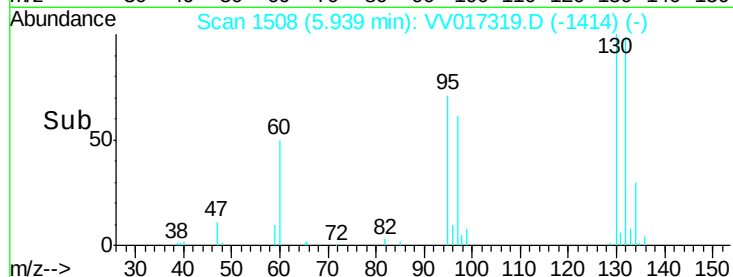
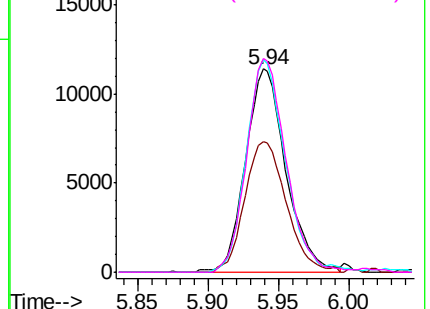
#34
 Trichloroethene
 Concen: 1.816 ug/L
 RT: 5.94 min Scan# 1508
 Delta R.T. 0.00 min
 Lab File: VV017319.D
 Acq: 02 Jul 2020 20:37

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion: 95 Resp: 22873
 Ion Ratio Lower Upper
 95 100
 97 64.3 45.3 84.1
 132 104.5 68.8 127.8
 130 105.1 70.2 130.4

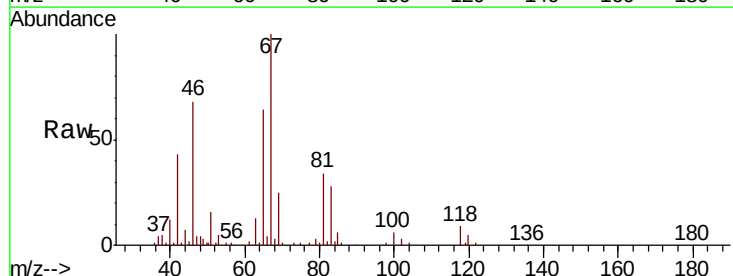


Abundance Ion 95.00 (94.70 to 95.70): VV0
 Ion 96.95 (96.65 to 97.65): VV0
 Ion 131.95 (131.65 to 132.65): VV0
 Ion 129.95 (129.65 to 130.65): VV0

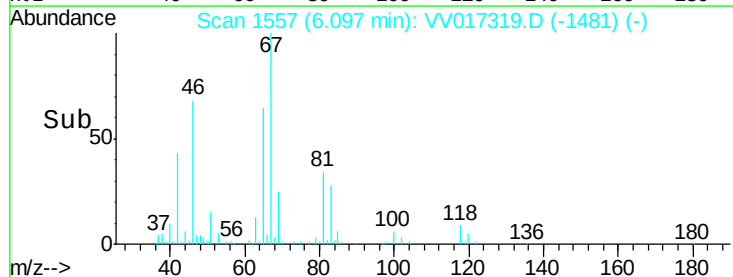
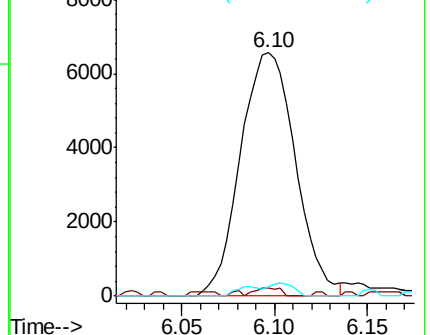


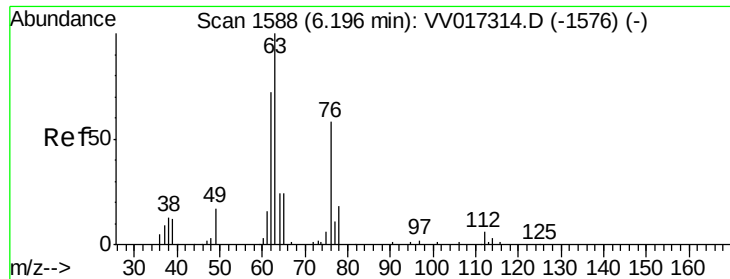
#35
 Methylcyclohexane
 Concen: 0.691 ug/L
 RT: 6.10 min Scan# 1557
 Delta R.T. -0.05 min
 Lab File: VV017319.D
 Acq: 02 Jul 2020 20:37

Tgt Ion: 83 Resp: 13520
 Ion Ratio Lower Upper
 83 100
 55 1.6 63.6 95.4#
 98 2.3 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

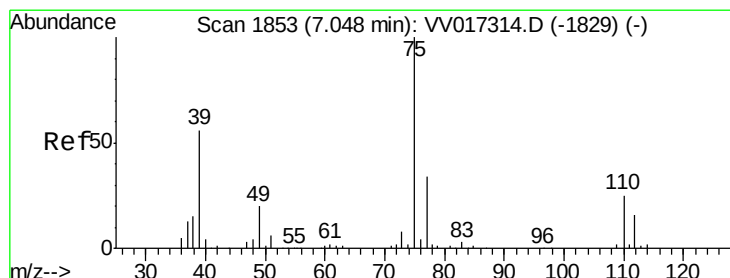
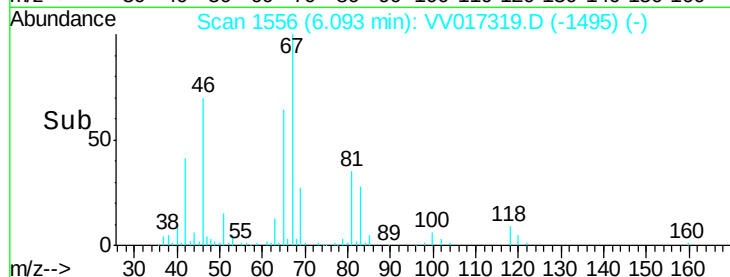
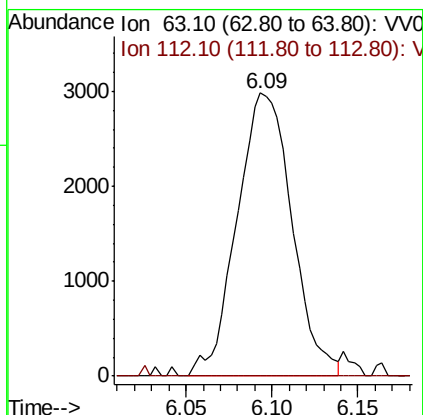
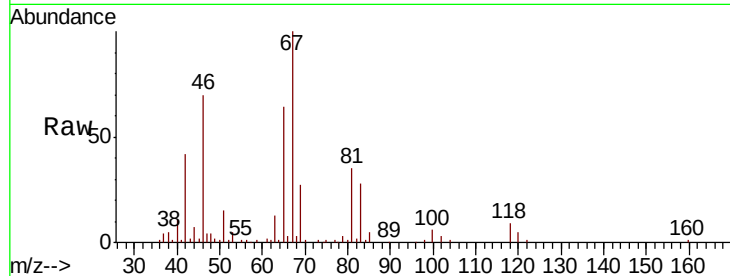




#37
 1,2-Dichloropropane
 Concen: 0.621 ug/L
 RT: 6.09 min Scan# 1556
 Delta R.T. -0.10 min
 Lab File: VV017319.D
 Acq: 02 Jul 2020 20:37

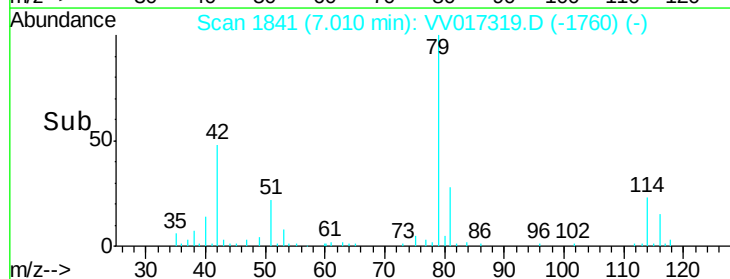
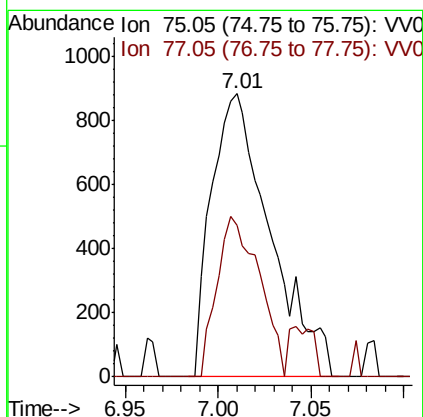
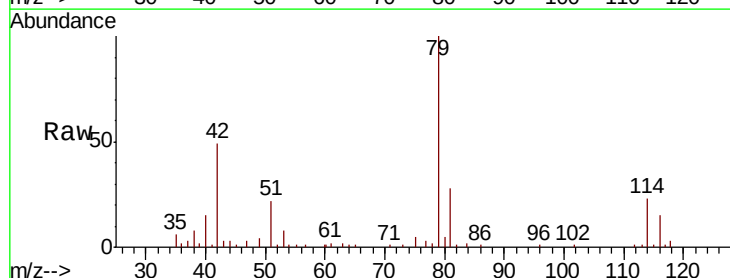
Instrument :
 MSVOA_V
 ClientSampleId :

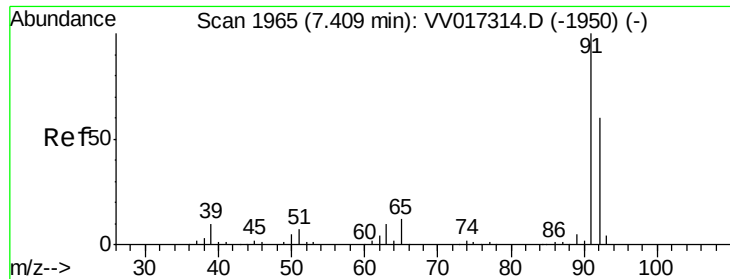
Tot Ion: 63 Resp: 6613
 Ion Ratio Lower Upper
 63 100
 112 0.3 4.4 6.6#



#39
 cis-1,3-Dichloropropene
 Concen: 0.124 ug/L
 RT: 7.01 min Scan# 1841
 Delta R.T. -0.04 min
 Lab File: VV017319.D
 Acq: 02 Jul 2020 20:37

Tgt Ion: 75 Resp: 1963
 Ion Ratio Lower Upper
 75 100
 77 53.5 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: VV017319.D

Acq: 02 Jul 2020 20:37

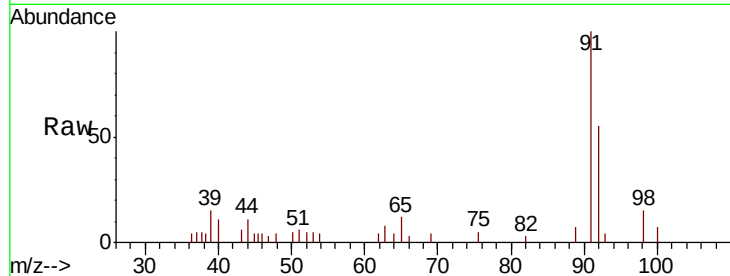
Instrument :
MSVOA_V
ClientSampleId :

Tot Ion: 91 Resp: 5679

Ion Ratio Lower Upper

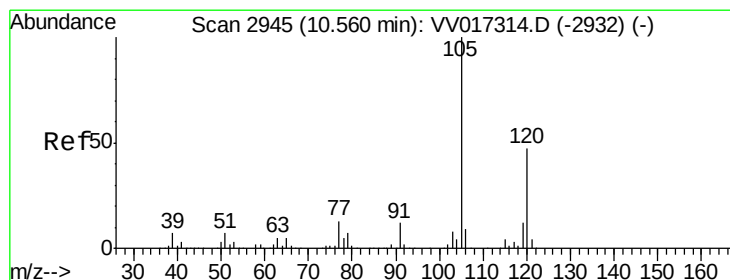
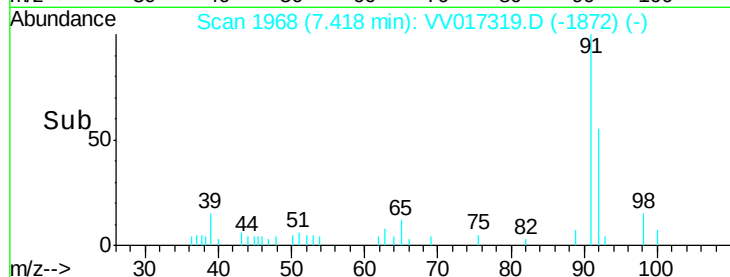
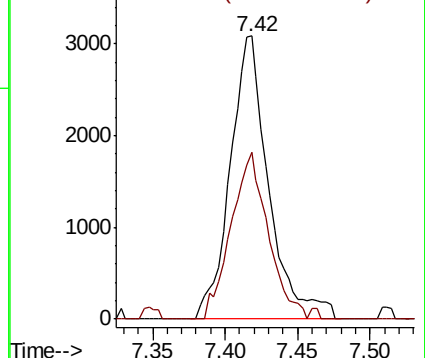
91 100

92 59.0 39.9 74.1



Abundance Ion 91.15 (90.85 to 91.85): VV017314.D (-1950) (-)

Ion 92.15 (91.85 to 92.85): VV017314.D (-1950) (-)



#43

1,3,5-Trimethylbenzene

Concen: 0.061 ug/L

RT: 11.36 min Scan# 3194

Delta R.T. 0.80 min

Lab File: VV017319.D

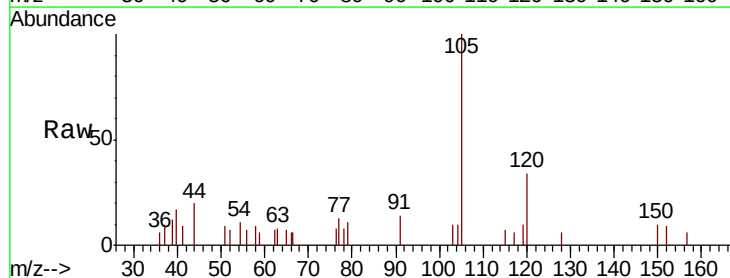
Acq: 02 Jul 2020 20:37

Tgt Ion: 105 Resp: 2707

Ion Ratio Lower Upper

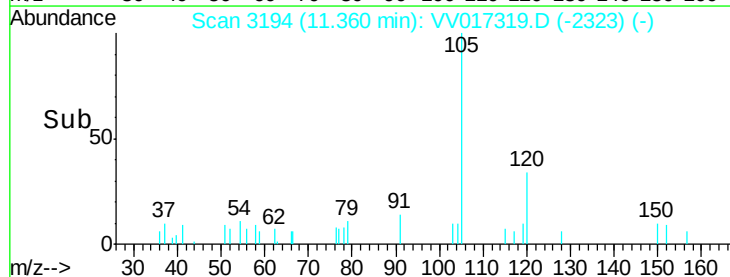
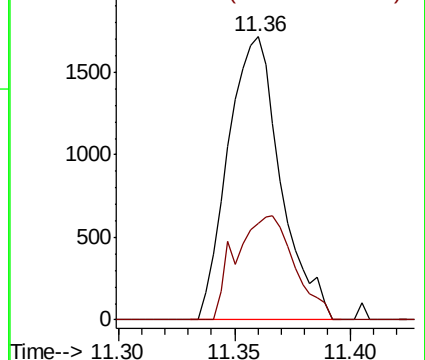
105 100

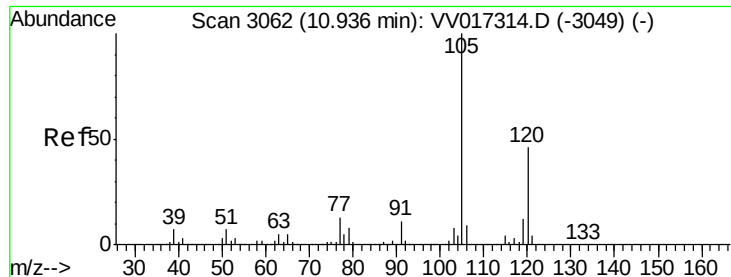
120 41.2 38.6 57.8



Abundance Ion 105.00 (104.70 to 105.70): VV017314.D (-2932) (-)

Ion 120.00 (119.70 to 120.70): VV017314.D (-2932) (-)

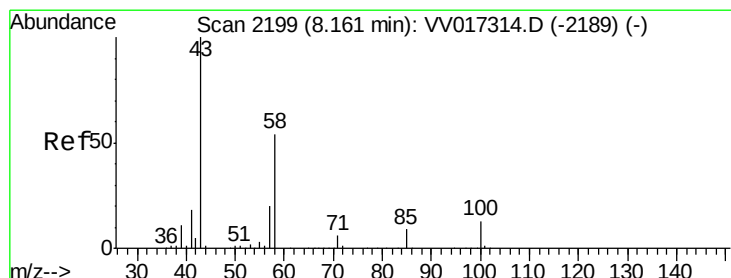
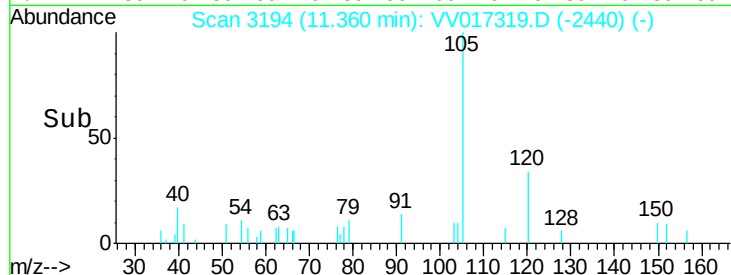
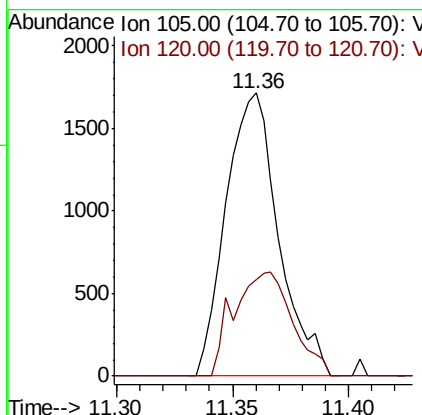
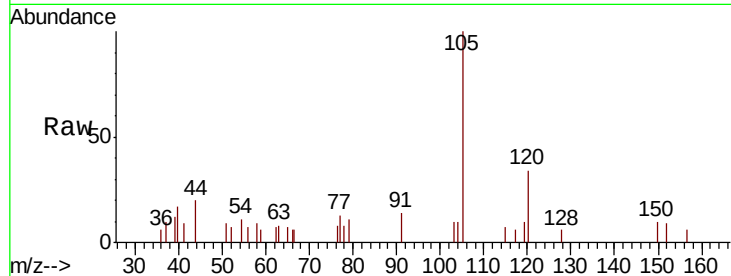




#44
 1,2,4-Trimethylbenzene
 Concen: 0.059 ug/L
 RT: 11.36 min Scan# 3194
 Delta R.T. 0.42 min
 Lab File: VV017319.D
 Acq: 02 Jul 2020 20:37

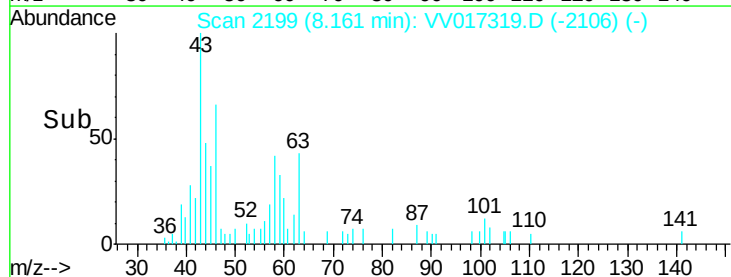
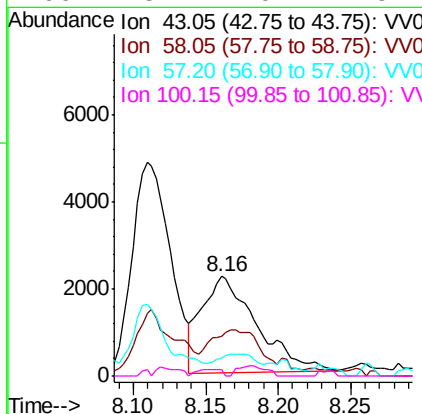
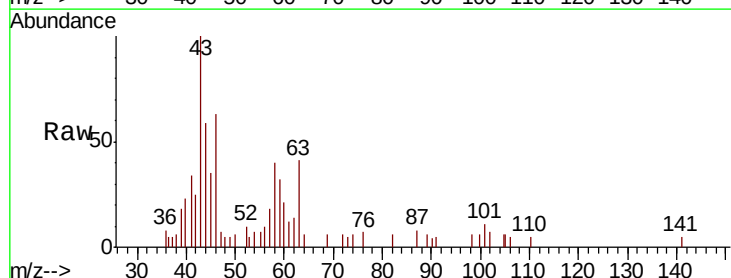
Instrument :
 MSVOA_V
 ClientSampleId :

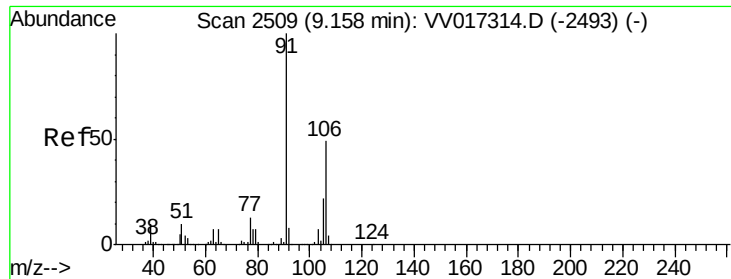
Tot Ion:105 Resp: 2707
 Ion Ratio Lower Upper
 105 100
 120 41.2 35.8 53.8



#50
 2-Hexanone
 Concen: 1.343 ug/L
 RT: 8.16 min Scan# 2199
 Delta R.T. -0.00 min
 Lab File: VV017319.D
 Acq: 02 Jul 2020 20:37

Tgt Ion: 43 Resp: 5877
 Ion Ratio Lower Upper
 43 100
 58 43.5 41.6 62.4
 57 0.0 15.4 23.0#
 100 3.1 10.1 15.1#





#55
 m,p-xylene
 Concen: 0.072 ug/L
 RT: 9.16 min Scan# 2510
 Delta R.T. 0.00 min
 Lab File: VV017319.D
 Acq: 02 Jul 2020 20:37

Instrument :
 MSVOA_V
 ClientSampleId :

Tot Ion:106 Resp: 1507
 Ion Ratio Lower Upper
 106 100
 91 160.1 142.7 264.9

