

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\U102119\NOT REVIEWED DATA\
 Data File : VU035323.D
 Acq On : 21 Oct 2019 14:15
 Operator : JC/SP
 Sample : K5344-06DL 10X
 Misc : 5.0mL/MSVOA U/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :

Quant Time: Oct 21 16:31:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM101919WMA.M
 Quant Title : VOC Analysis
 QLast Update : Mon Oct 21 05:38:49 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	702426	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	671529	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	292889	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	277439	45.92	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	91.84%
7) Chloroethane-d5	1.93	69	236386	46.61	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	93.22%
11) 1,1-Dichloroethene-d2	2.59	63	355726	35.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	71.36%
21) 2-Butanone-d5	4.69	46	415365	103.70	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	103.70%
24) Chloroform-d	5.11	84	448755	45.96	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.92%
26) 1,2-Dichloroethane-d4	5.75	65	300026	46.87	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.74%
32) Benzene-d6	5.77	84	937198	48.40	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	96.80%
36) 1,2-Dichloropropane-d6	6.73	67	299069	48.33	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	96.66%
41) Toluene-d8	7.93	98	879972	48.10	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	96.20%
43) trans-1,3-Dichloropropene-	8.21	79	148311	46.27	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	92.54%
47) 2-Hexanone-d5	8.68	63	288681	104.99	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	104.99%
57) 1,1,2,2-Tetrachloroethane-	10.79	84	426594	46.38	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	92.76%
64) 1,2-Dichlorobenzene-d4	12.22	152	309064	45.52	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.04%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.60	101	3274	0.738	ug/L #	20
13) Acetone	2.67	43	218916	61.302	ug/L	98
16) Methylene chloride	3.08	84	25841	5.060	ug/L	98
20) cis-1,2-Dichloroethene	4.72	96	11497	2.196	ug/L	90
22) 2-Butanone	4.78	43	39186	9.069	ug/L	91
33) Benzene	5.82	78	56290	2.965	ug/L	100
34) Trichloroethene	6.58	95	4677	0.956	ug/L	97
35) Methylcyclohexane	6.80	83	23713	3.135	ug/L	93
40) 4-Methyl-2-pentanone	7.84	43	1045611	143.948	ug/L	99
42) Toluene	8.01	91	484586	23.317	ug/L	100
45) 1,1,2-Trichloroethane	8.40	97	7557	1.559	ug/L #	21
52) Ethylbenzene	9.60	91	131993	5.698	ug/L	98
53) m,p-Xylene	9.72	106	203759	23.863	ug/L	99
54) o-xylene	10.13	106	119758	14.140	ug/L	99
56) Isopropylbenzene	10.51	105	20780	0.948	ug/L #	96
59) 1,2,3-Trichloropropane	11.84	75	37966	5.671	ug/L	89
65) 1,2-Dichlorobenzene	12.24	146	24306	2.559	ug/L #	90

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QLast Update : Mon Oct 21 05:38:49 2019
Response via : Initial Calibration

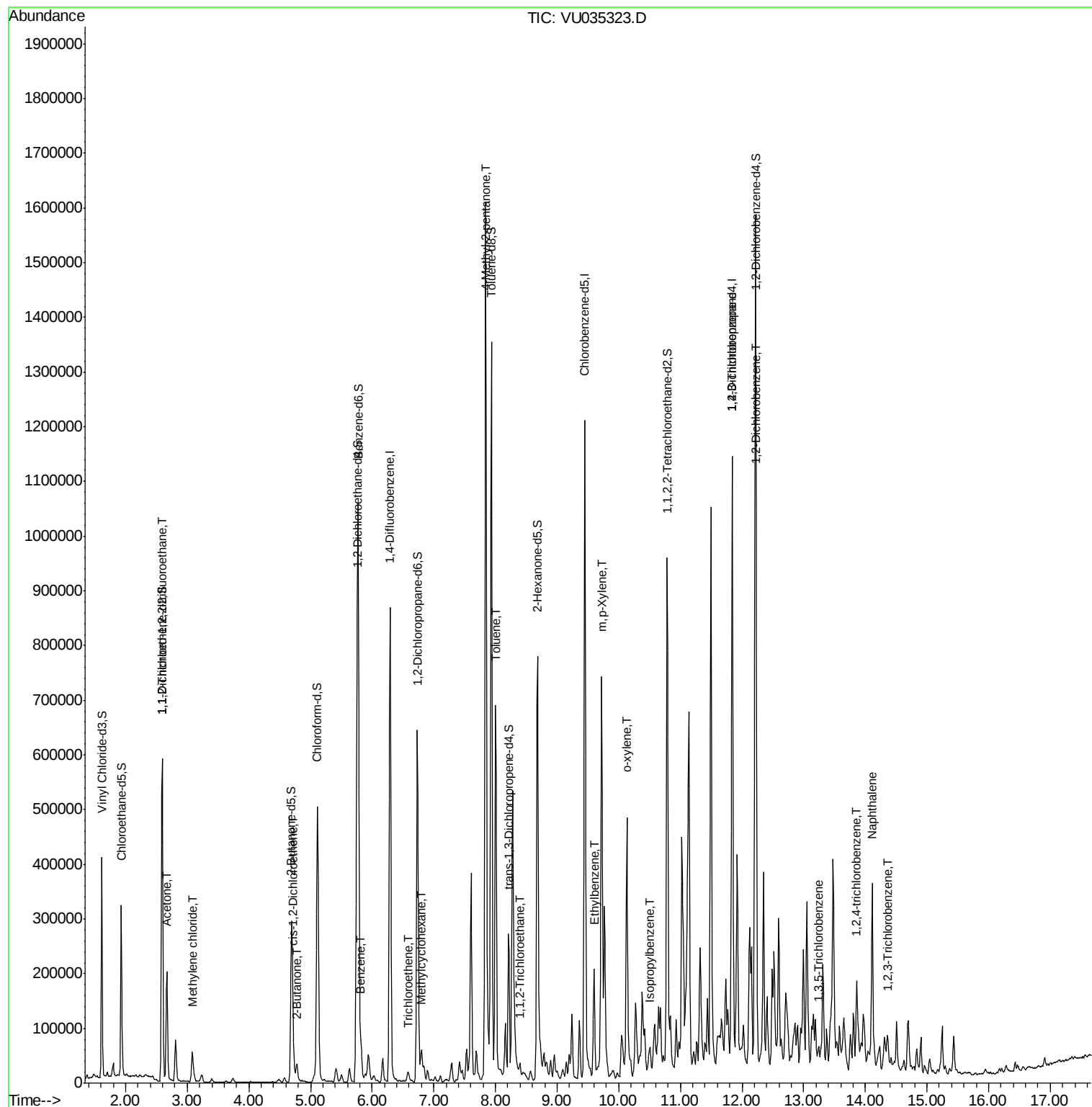
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
67) 1,3,5-Trichlorobenzene	13.24	180	5298	0.995	ug/L	96
68) 1,2,4-trichlorobenzene	13.87	180	5026	1.432	ug/L #	52
69) Naphthalene	14.11	128	264522	27.377	ug/L	99
70) 1,2,3-Trichlorobenzene	14.36	180	14136	3.893	ug/L #	77

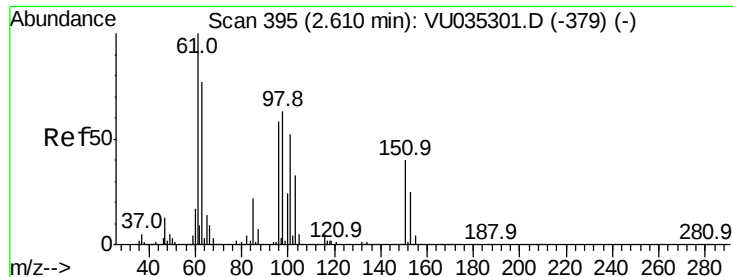
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU102119\NOT REVIEWED DATA\
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#10

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

Concen: 0.738 ug/L

RT: 2.60 min Scan# 391

Delta R.T. -0.01 min

Lab File: VU035323.D

Acq: 21 Oct 2019 14:15

Instrument :

MSVOA_U

ClientSampleId :

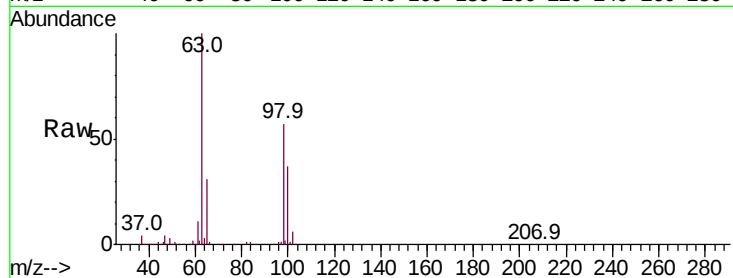
Tot Ion:101 Resp: 3274

Ion Ratio Lower Upper

101 100

85 0.0 33.7 50.5#

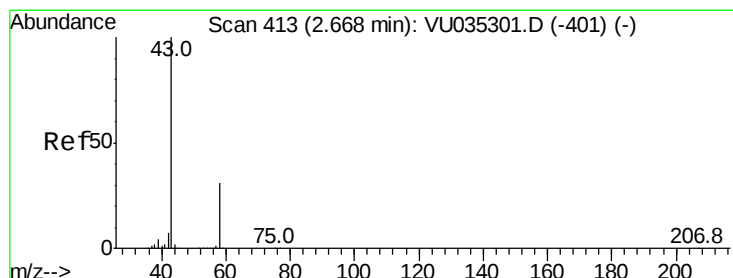
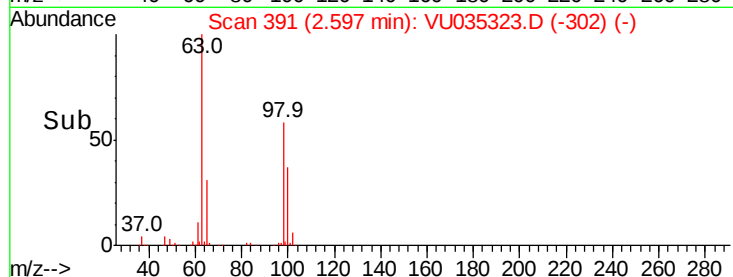
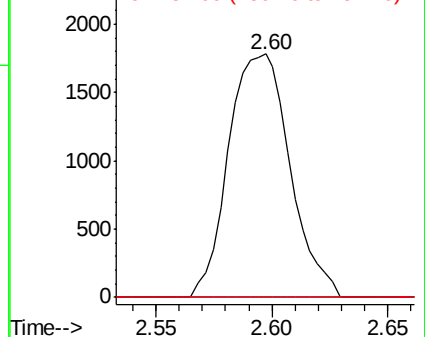
151 0.0 60.3 90.5#



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#13

Acetone

Concen: 61.302 ug/L

RT: 2.67 min Scan# 413

Delta R.T. -0.00 min

Lab File: VU035323.D

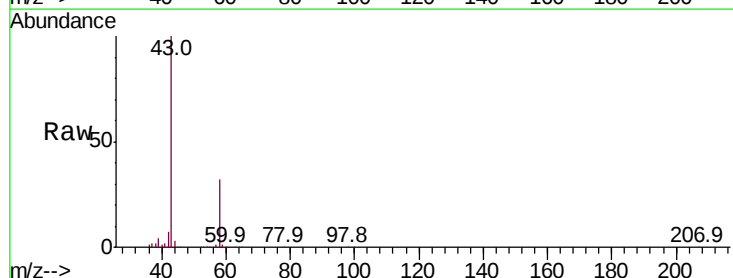
Acq: 21 Oct 2019 14:15

Tgt Ion: 43 Resp: 218916

Ion Ratio Lower Upper

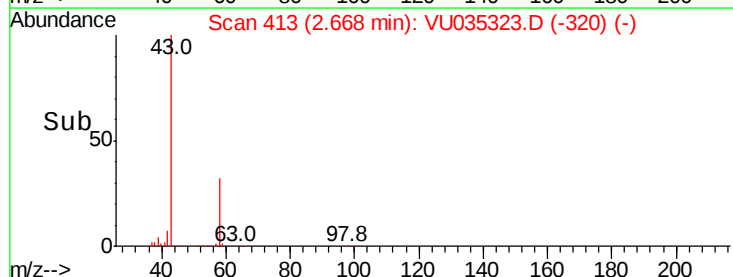
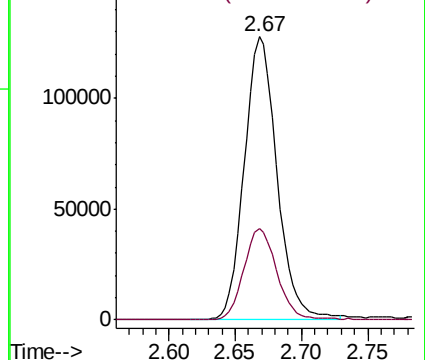
43 100

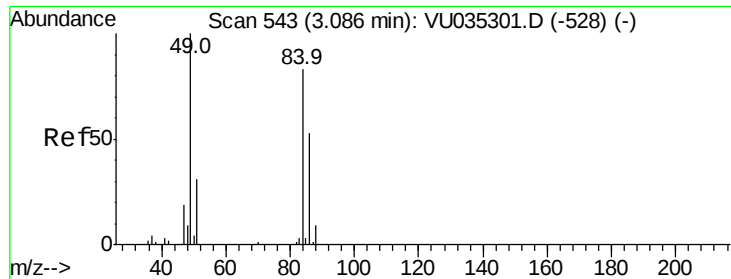
58 32.7 0.0 62.8



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 58.00 (57.70 to 58.70): VU0

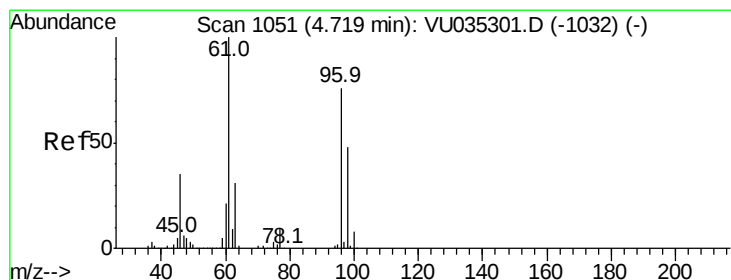
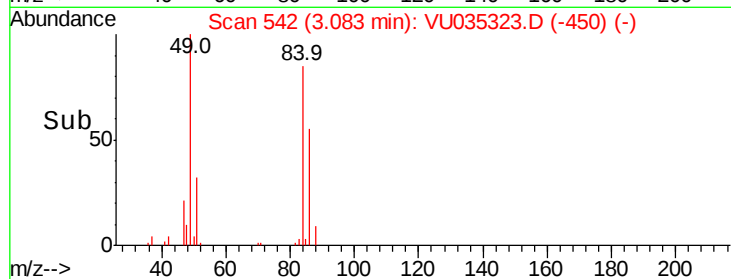
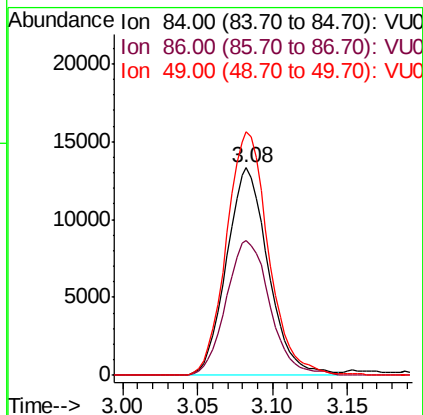
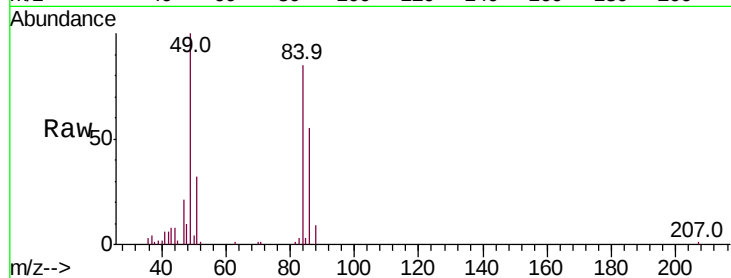




#16
Methvlene chloride
Concen: 5.060 ug/L
RT: 3.08 min Scan# 542
Delta R.T. -0.00 min
Lab File: VU035323.D
Acq: 21 Oct 2019 14:15

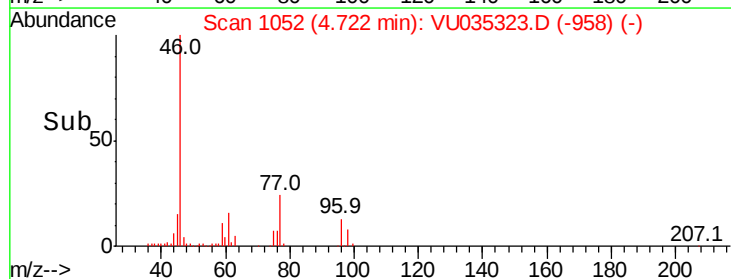
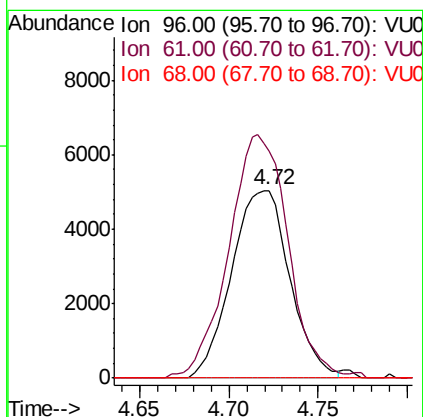
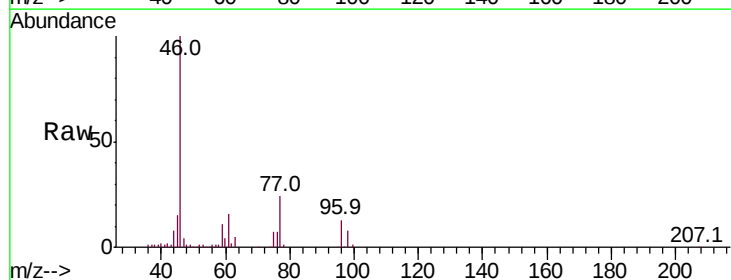
Instrument :
MSVOA_U
ClientSampleId :

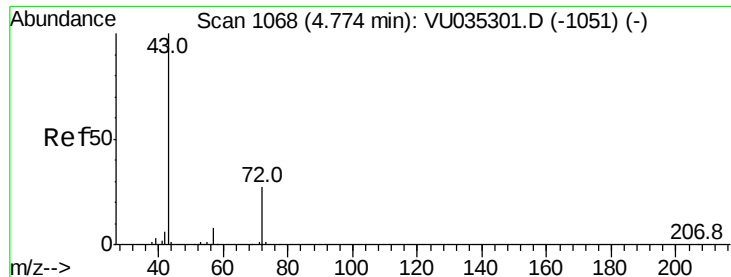
Tot Ion: 84 Resp: 25841
Ion Ratio Lower Upper
84 100
86 64.7 44.4 82.5
49 117.3 84.0 156.0



#20
cis-1,2-Dichloroethene
Concen: 2.196 ug/L
RT: 4.72 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VU035323.D
Acq: 21 Oct 2019 14:15

Tgt Ion: 96 Resp: 11497
Ion Ratio Lower Upper
96 100
61 121.1 92.7 172.3
68 0.0 0.0 0.0





#22

2-Butanone

Concen: 9.069 ug/L

RT: 4.78 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VU035323.D

Acq: 21 Oct 2019 14:15

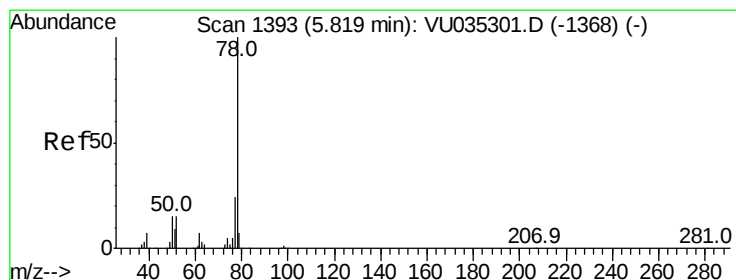
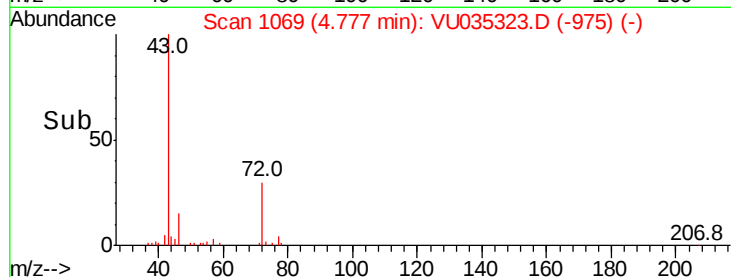
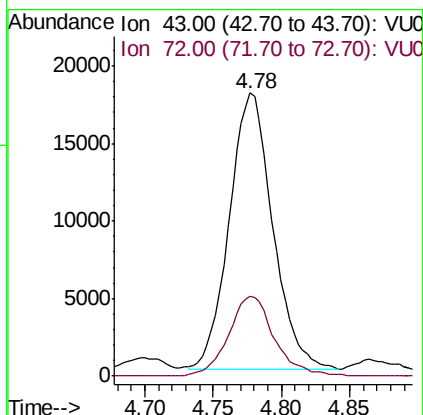
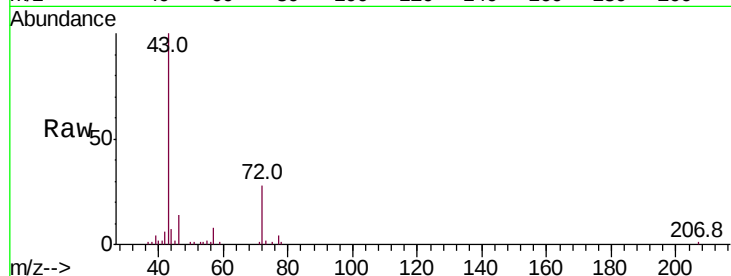
Instrument :
MSVOA_U
ClientSampleId :

Tot Ion: 43 Resp: 39186

Ion Ratio Lower Upper

43 100

72 30.4 12.9 38.6



#33

Benzene

Concen: 2.965 ug/L

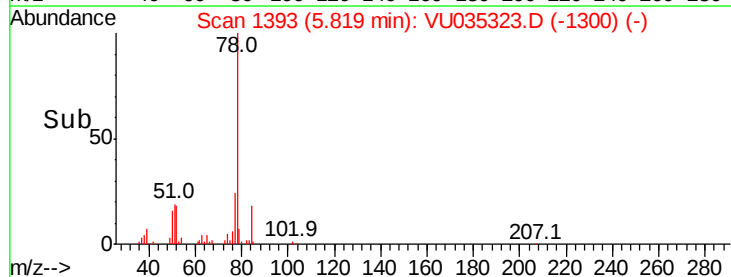
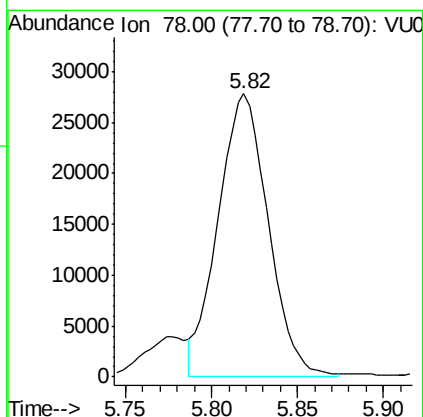
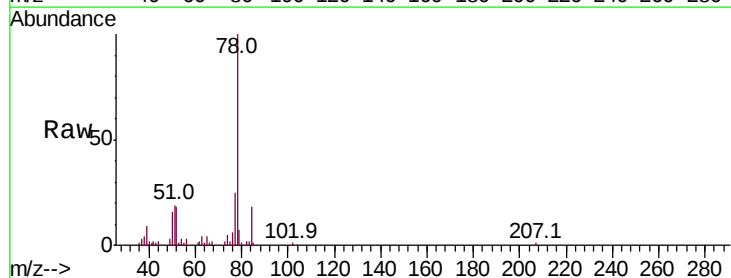
RT: 5.82 min Scan# 1393

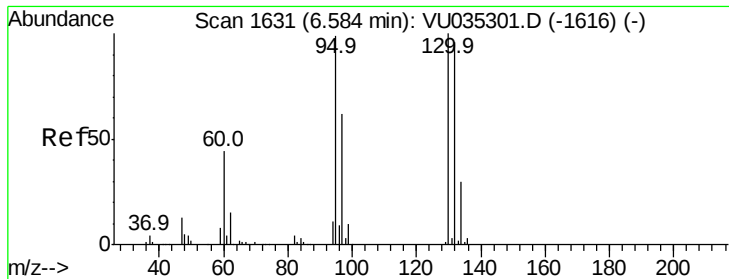
Delta R.T. -0.00 min

Lab File: VU035323.D

Acq: 21 Oct 2019 14:15

Tgt Ion: 78 Resp: 56290





#34

Trichloroethene

Concen: 0.956 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU035323.D

Acq: 21 Oct 2019 14:15

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 95 Resp: 4677

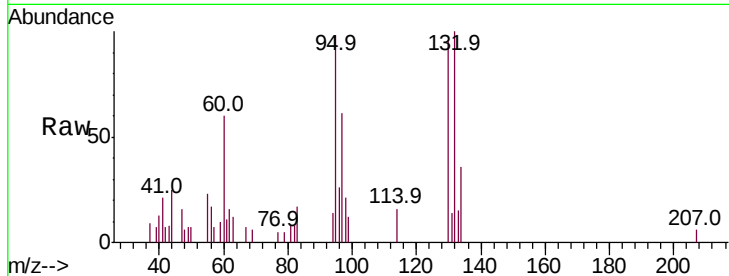
Ion Ratio Lower Upper

95 100

97 61.9 44.2 82.2

132 101.7 67.8 125.8

130 98.2 70.9 131.7

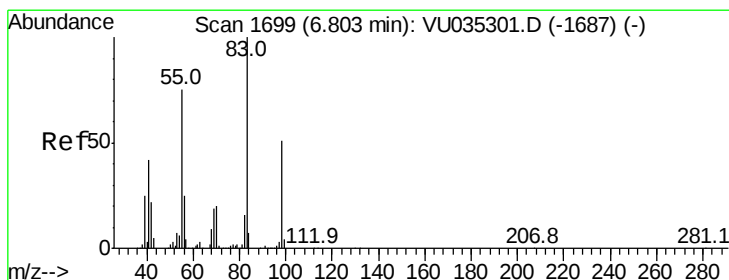
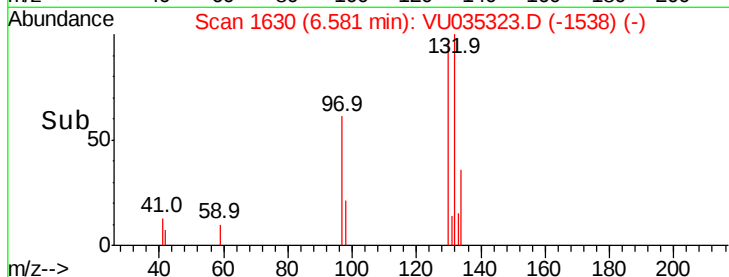
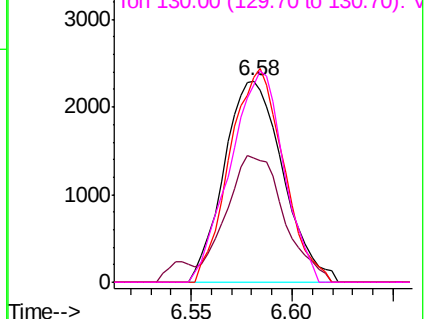


Abundance Ion 95.00 (94.70 to 95.70): VU035323.D (-1630) (-)

Ion 97.00 (96.70 to 97.70): VU035323.D (-1630) (-)

Ion 132.00 (131.70 to 132.70): VU035323.D (-1630) (-)

Ion 130.00 (129.70 to 130.70): VU035323.D (-1630) (-)



#35

Methylcyclohexane

Concen: 3.135 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. -0.00 min

Lab File: VU035323.D

Acq: 21 Oct 2019 14:15

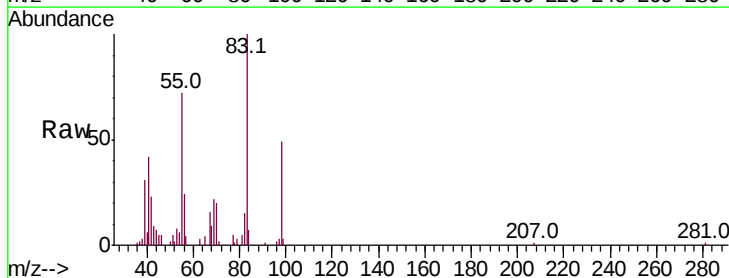
Tgt Ion: 83 Resp: 23713

Ion Ratio Lower Upper

83 100

55 80.4 59.5 89.3

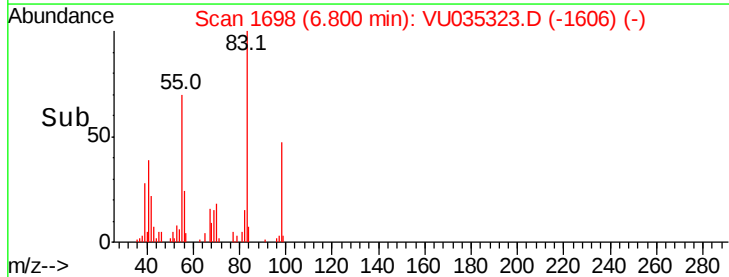
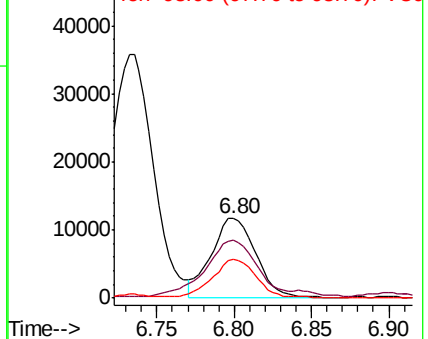
98 46.0 39.9 59.9

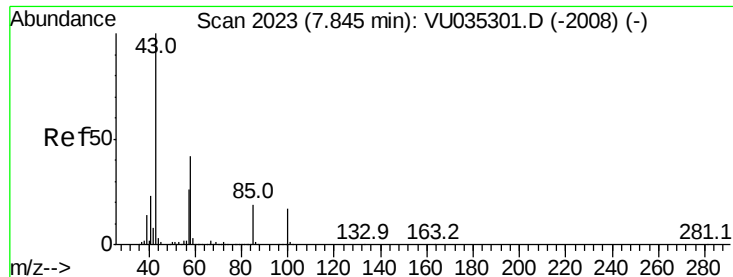


Abundance Ion 83.00 (82.70 to 83.70): VU035323.D (-1698) (-)

Ion 55.00 (54.70 to 55.70): VU035323.D (-1698) (-)

Ion 98.00 (97.70 to 98.70): VU035323.D (-1698) (-)



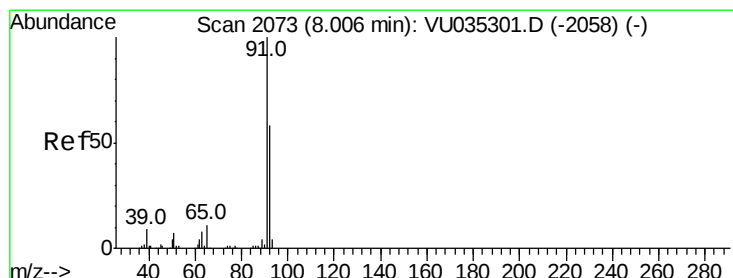
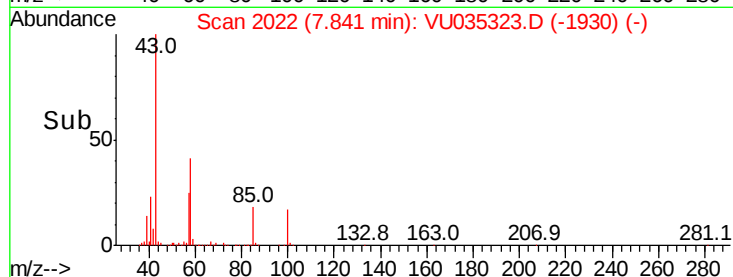
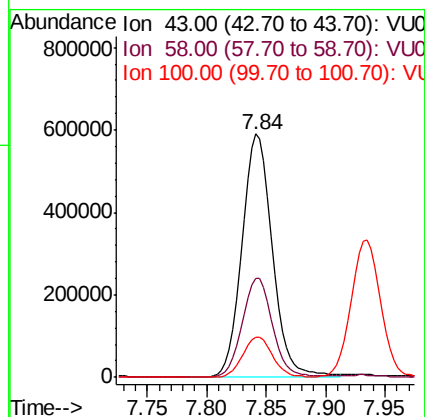
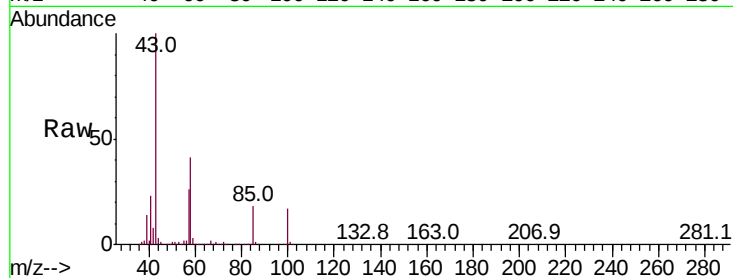


#40
 4-Methyl-2-pentanone
 Concen: 143.948 ug/L
 RT: 7.84 min Scan# 2022
 Delta R.T. -0.00 min
 Lab File: VU035323.D
 Acq: 21 Oct 2019 14:15

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion: 43 Resp: 1045611

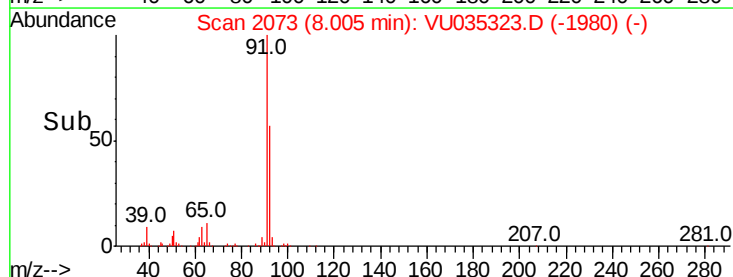
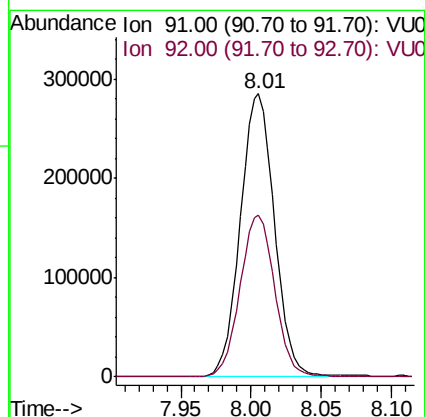
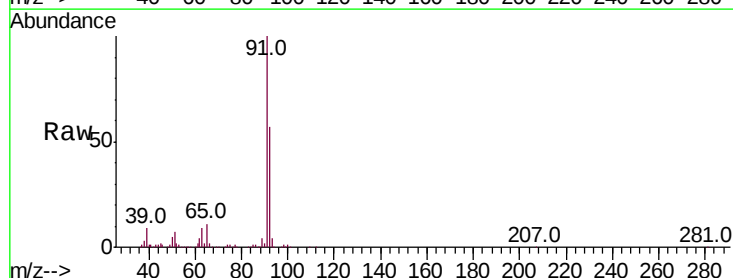
Ion	Ratio	Lower	Upper
43	100		
58	40.9	33.1	49.7
100	16.4	13.2	19.8

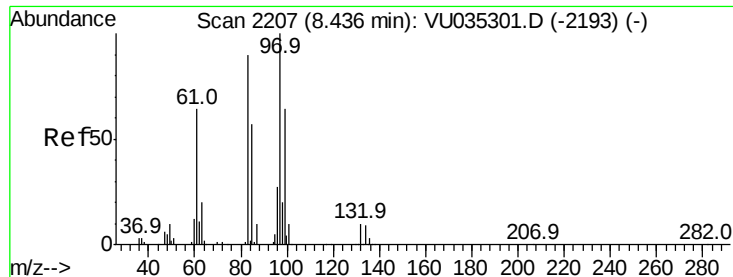


#42
 Toluene
 Concen: 23.317 ug/L
 RT: 8.01 min Scan# 2073
 Delta R.T. -0.00 min
 Lab File: VU035323.D
 Acq: 21 Oct 2019 14:15

Tgt Ion: 91 Resp: 484586

Ion	Ratio	Lower	Upper
91	100		
92	57.3	40.3	74.9





#45

1,1,2-Trichloroethane

Concen: 1.559 ug/L

RT: 8.40 min Scan# 2196

Delta R.T. -0.04 min

Lab File: VU035323.D

Acq: 21 Oct 2019 14:15

Instrument :

MSVOA_U

ClientSampleId :

Tot Ion: 97 Resp: 7557

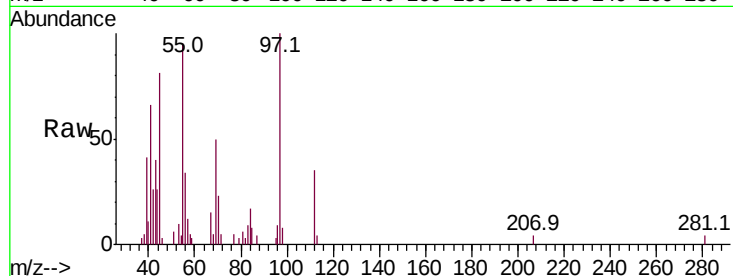
Ion Ratio Lower Upper

97 100

99 0.0 44.5 82.7#

83 9.5 63.0 117.0#

85 8.2 39.7 73.7#

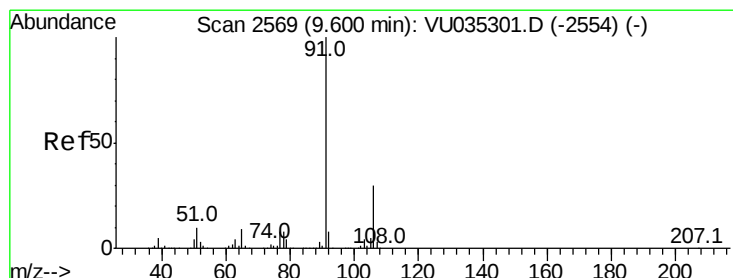
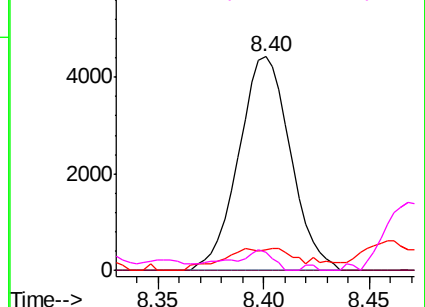
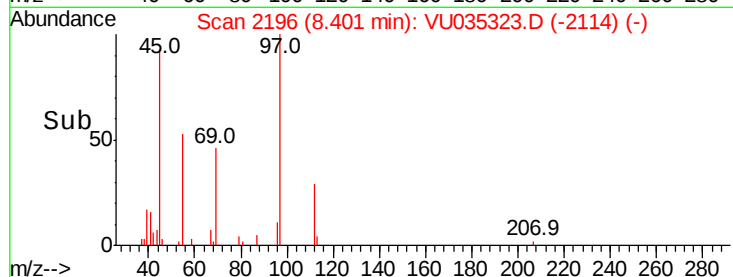


Abundance Ion 97.00 (96.70 to 97.70): VU035301.D (-2193) (-)

Ion 99.00 (98.70 to 99.70): VU035301.D (-2193) (-)

Ion 83.00 (82.70 to 83.70): VU035301.D (-2193) (-)

Ion 85.00 (84.70 to 85.70): VU035301.D (-2193) (-)



#52

Ethylbenzene

Concen: 5.698 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU035323.D

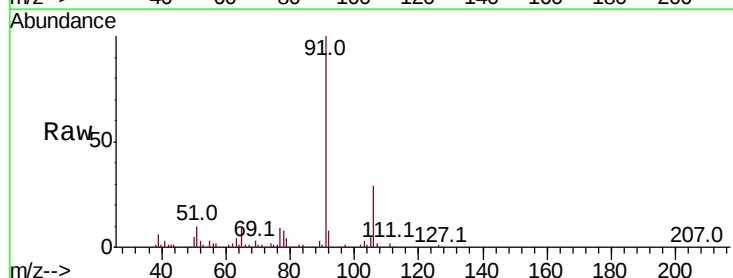
Acq: 21 Oct 2019 14:15

Tgt Ion: 91 Resp: 131993

Ion Ratio Lower Upper

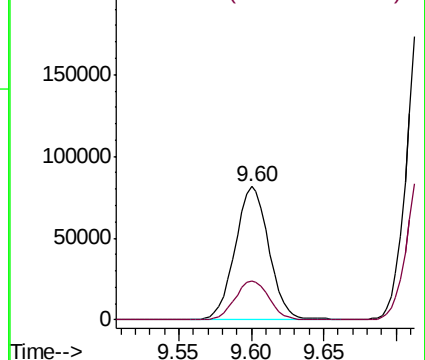
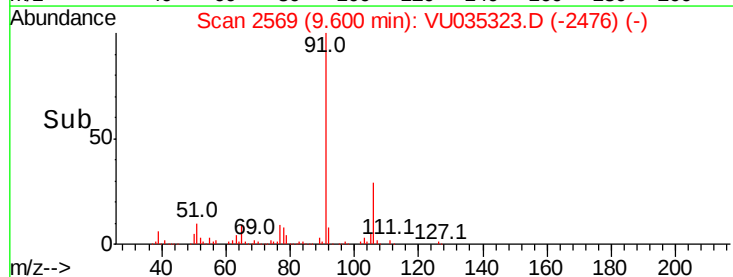
91 100

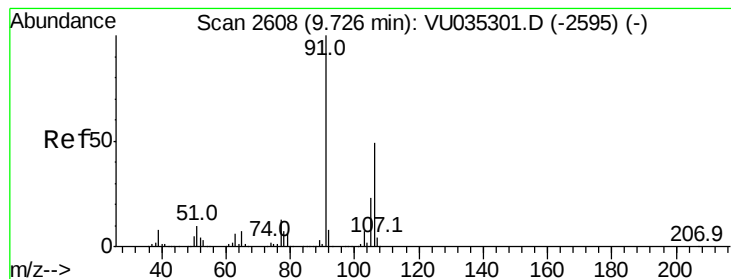
106 29.5 21.3 39.6



Abundance Ion 91.00 (90.70 to 91.70): VU035301.D (-2554) (-)

Ion 106.00 (105.70 to 106.70): VU035301.D (-2554) (-)





#53

m,p-Xylene

Concen: 23.863 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU035323.D

Acq: 21 Oct 2019 14:15

Instrument :

MSVOA_U

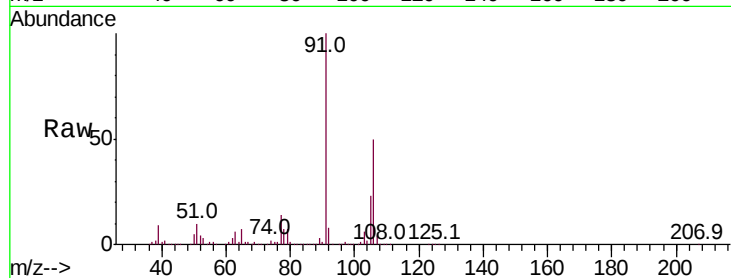
ClientSampled :

Tot Ion:106 Resp: 203759

Ion Ratio Lower Upper

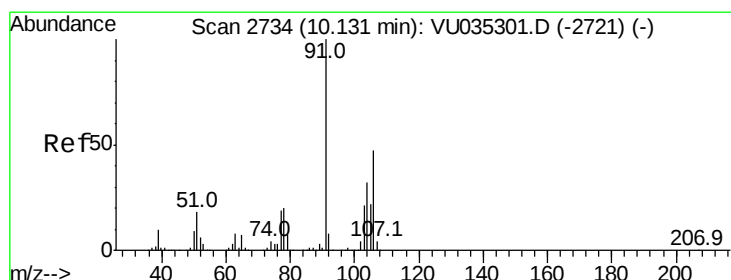
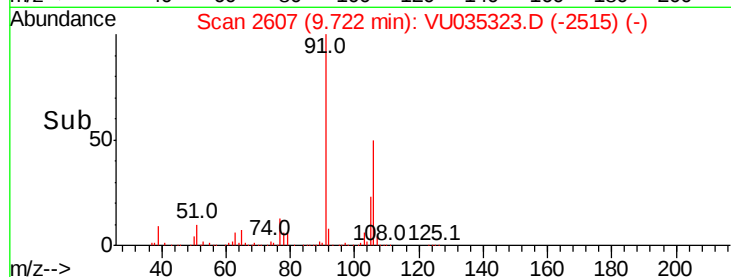
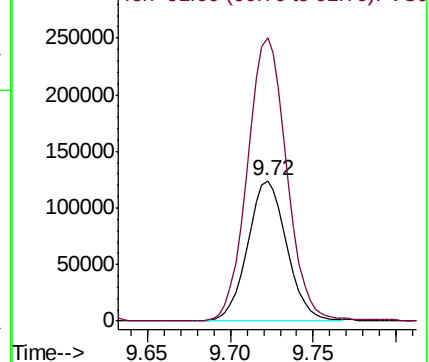
106 100

91 201.4 141.5 262.9



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#54

o-xylene

Concen: 14.140 ug/L

RT: 10.13 min Scan# 2734

Delta R.T. -0.00 min

Lab File: VU035323.D

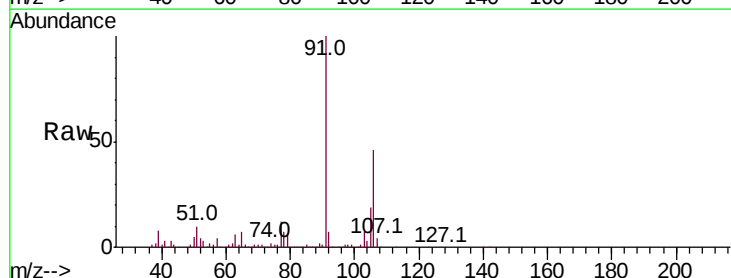
Acq: 21 Oct 2019 14:15

Tgt Ion:106 Resp: 119758

Ion Ratio Lower Upper

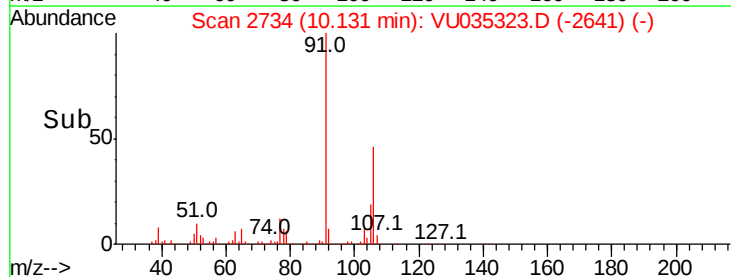
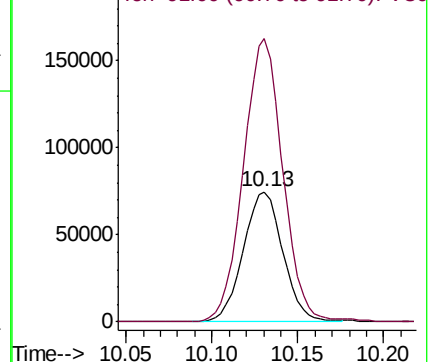
106 100

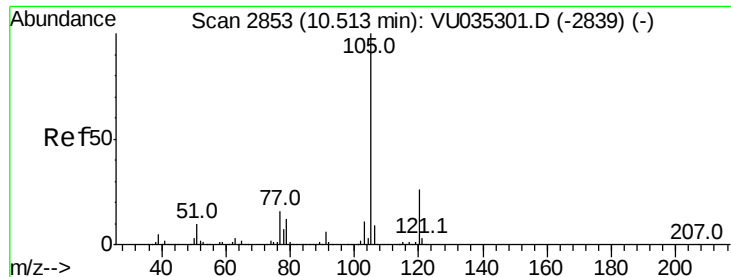
91 217.2 150.6 279.8



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0





#56

Isopropylbenzene

Concen: 0.948 ug/L

RT: 10.51 min Scan# 2853

Delta R.T. -0.00 min

Lab File: VU035323.D

Acq: 21 Oct 2019 14:15

Instrument :

MSVOA_U

ClientSampleId :

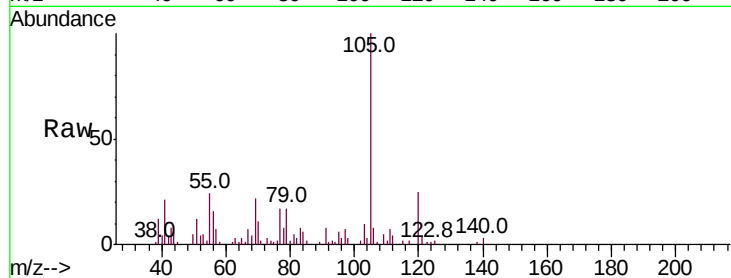
Tot Ion:105 Resp: 20780

Ion Ratio Lower Upper

105 100

120 25.4 21.1 31.7

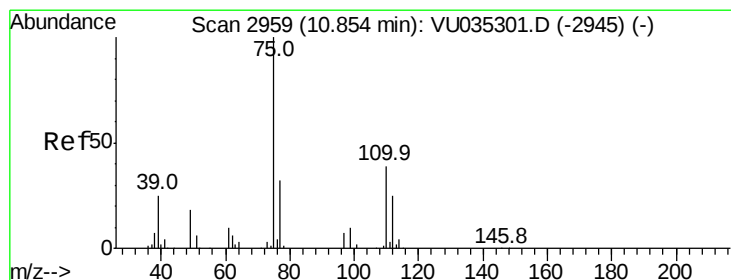
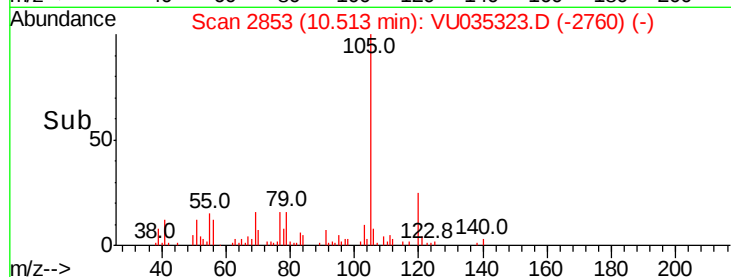
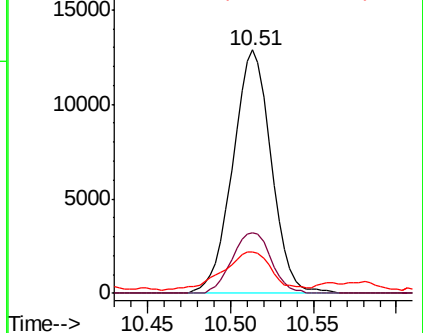
77 19.2 12.7 19.1#



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): VU



#59

1,2,3-Trichloropropane

Concen: 5.671 ug/L

RT: 11.84 min Scan# 3266

Delta R.T. 0.99 min

Lab File: VU035323.D

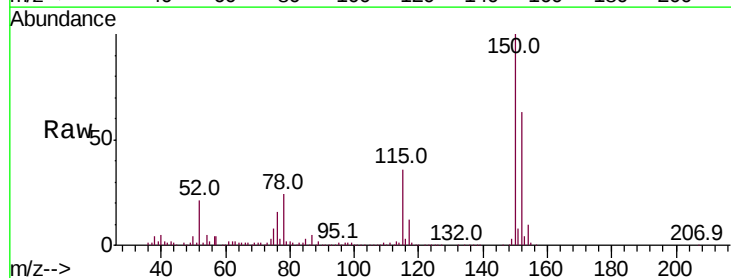
Acq: 21 Oct 2019 14:15

Tgt Ion: 75 Resp: 37966

Ion Ratio Lower Upper

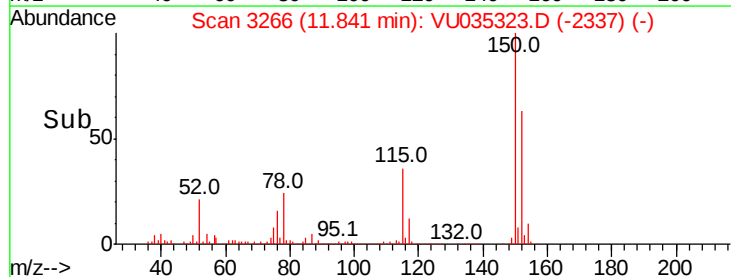
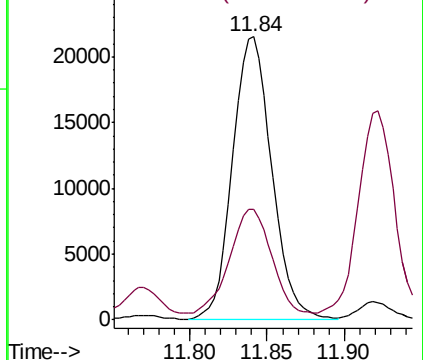
75 100

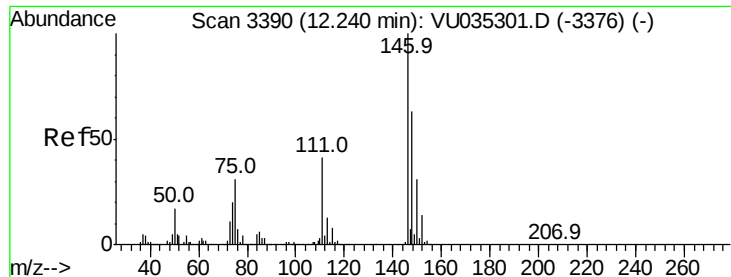
77 39.1 26.2 39.2



Abundance Ion 75.00 (74.70 to 75.70): VU

Ion 77.00 (76.70 to 77.70): VU





#65

1,2-Dichlorobenzene

Concen: 2.559 ug/L

RT: 12.24 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VU035323.D

Acq: 21 Oct 2019 14:15

Instrument :

MSVOA_U

ClientSampleId :

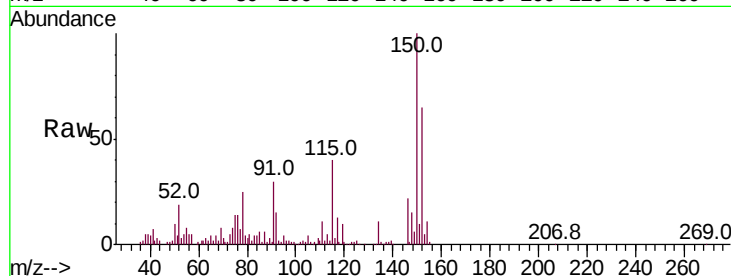
Tot Ion:146 Resp: 24306

Ion Ratio Lower Upper

146 100

111 50.1 32.8 49.2#

148 68.5 50.2 75.4

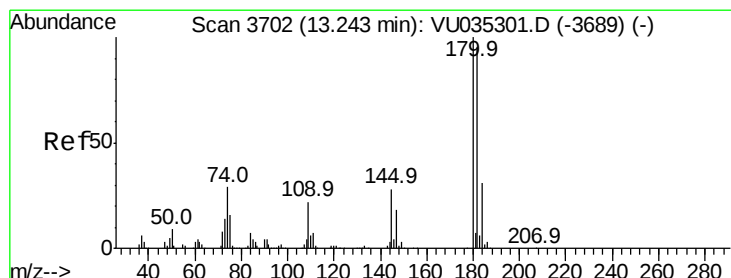
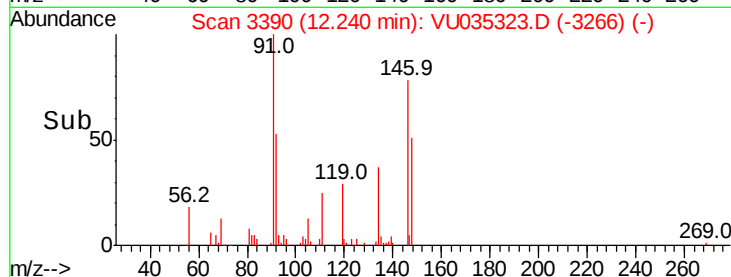
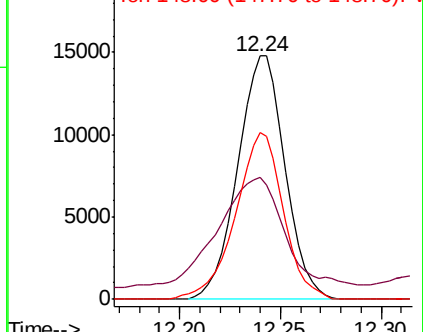


Abundance

Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#67

1,3,5-Trichlorobenzene

Concen: 0.995 ug/L

RT: 13.24 min Scan# 3702

Delta R.T. -0.00 min

Lab File: VU035323.D

Acq: 21 Oct 2019 14:15

Tgt Ion:180 Resp: 5298

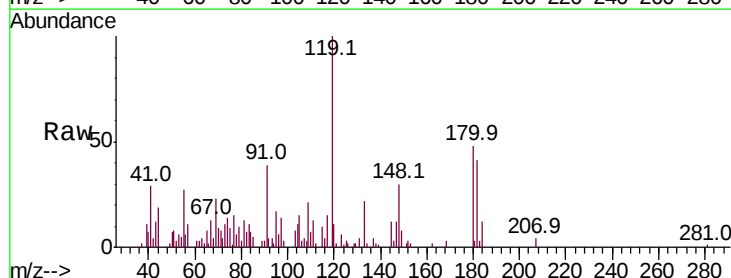
Ion Ratio Lower Upper

180 100

182 92.2 76.5 114.7

184 28.5 24.5 36.7

145 24.9 22.2 33.4



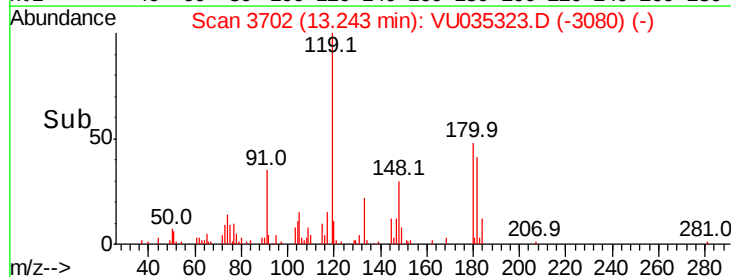
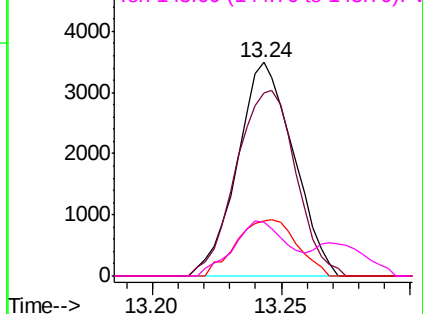
Abundance

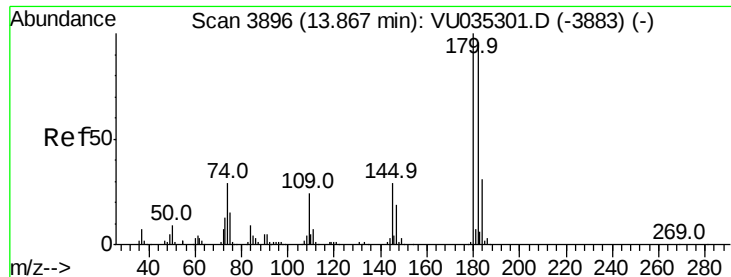
Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V





#68

1,2,4-trichlorobenzene

Concen: 1.432 ug/L

RT: 13.87 min Scan# 3896

Delta R.T. -0.00 min

Lab File: VU035323.D

Acq: 21 Oct 2019 14:15

Instrument :

MSVOA_U

ClientSampleId :

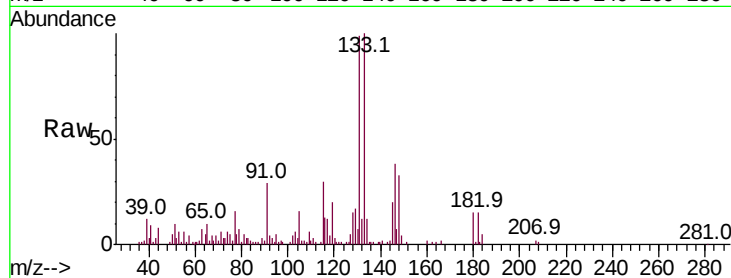
Tot Ion:180 Resp: 5026

Ion Ratio Lower Upper

180 100

182 92.0 76.2 114.2

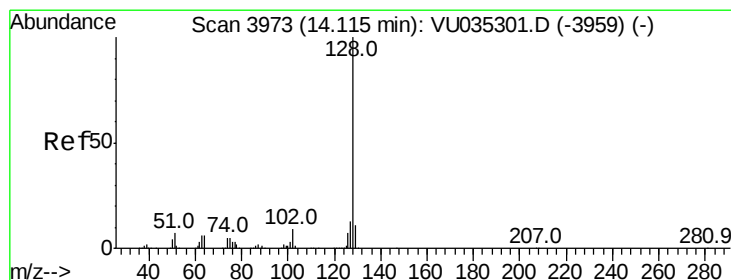
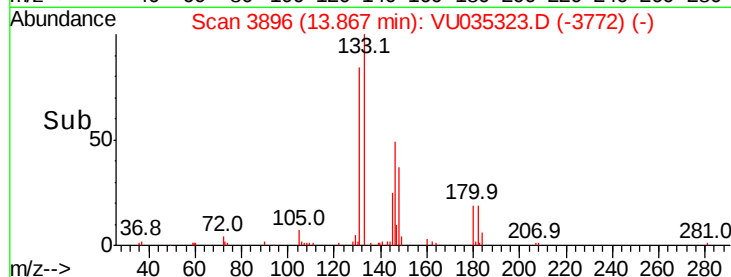
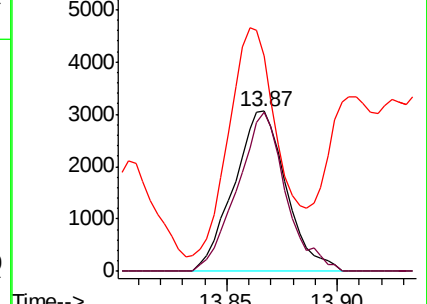
145 132.8 22.8 34.2#



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V



#69

Naphthalene

Concen: 27.377 ug/L

RT: 14.11 min Scan# 3972

Delta R.T. -0.00 min

Lab File: VU035323.D

Acq: 21 Oct 2019 14:15

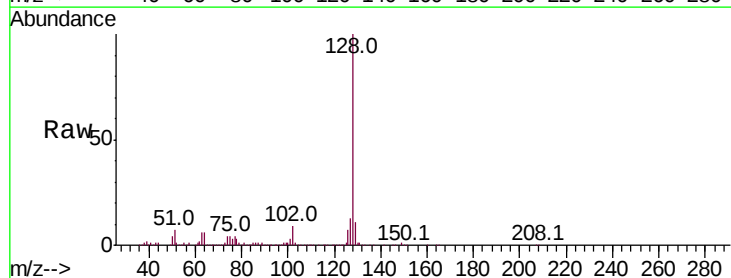
Tgt Ion:128 Resp: 264522

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.4

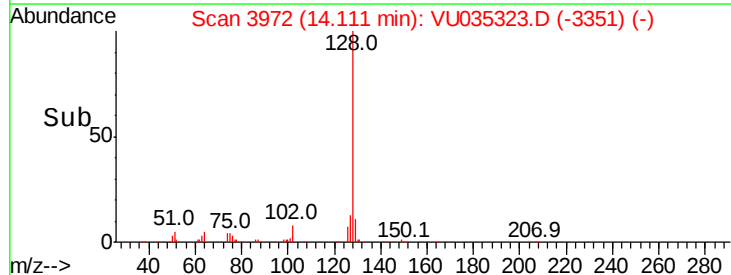
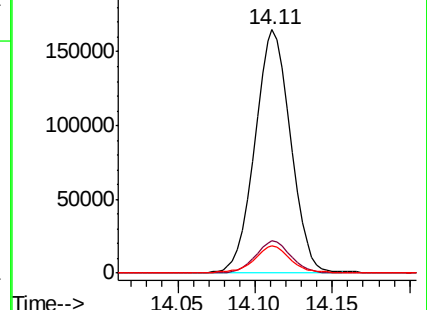
129 11.2 8.6 13.0

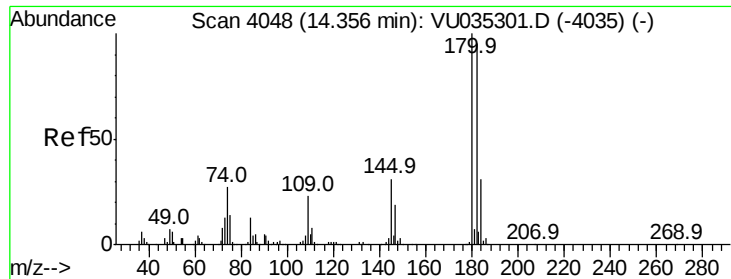


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#70
 1,2,3-Trichlorobenzene
 Concen: 3.893 ug/L
 RT: 14.36 min Scan# 4048
 Delta R.T. -0.00 min
 Lab File: VU035323.D
 Acq: 21 Oct 2019 14:15

Instrument :
 MSVOA_U
 ClientSampleId :

Tot Ion:180 Resp: 14136
 Ion Ratio Lower Upper
 180 100
 182 92.7 76.2 114.2
 145 78.7 24.2 36.4#

