

Data File : VU036323.D
Acq On : 23 Dec 2019 12:15
Operator : JC/MD
Sample : VSTDCCC005
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00526

Quant Time: Dec 24 00:17:27 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121319WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Mon Dec 23 15:22:26 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	301689	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	304833	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.83	152	169168	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.61	65	119464	4.50	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.00%
7) Chloroethane-d5	1.93	69	106500	4.47	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	89.40%
11) 1,1-Dichloroethene-d2	2.59	63	171308	4.47	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	89.40%
20) 2-Butanone-d5	4.69	46	248258	49.88	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	99.76%
24) Chloroform-d	5.11	84	196702	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	92.00%
26) 1,2-Dichloroethane-d4	5.75	65	99697	4.44	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	88.80%
32) Benzene-d6	5.77	84	363823	4.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	95.00%
36) 1,2-Dichloropropane-d6	6.73	67	113906	4.72	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	94.40%
41) Toluene-d8	7.93	98	341912	4.74	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	94.80%
43) trans-1,3-Dichloropropene-	8.21	79	49031	4.94	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	98.80%
46) 2-Hexanone-d5	8.67	63	212134	55.85	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	111.70%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	104533	4.74	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	94.80%
64) 1,2-Dichlorobenzene-d4	12.21	152	142533	4.40	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	145437	4.319 ug/L	99
3) Chloromethane	1.54	50	161070	3.812 ug/L	99
5) Vinyl chloride	1.62	62	166455	4.152 ug/L	99
6) Bromomethane	1.87	94	98408	4.913 ug/L	98
8) Chloroethane	1.95	64	93866	3.921 ug/L	100
9) Trichlorofluoromethane	2.16	101	214390	4.244 ug/L	97
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	108020	4.463 ug/L	97
12) 1,1-Dichloroethene	2.61	96	97881	4.373 ug/L	95
13) Acetone	2.67	43	196370	45.271 ug/L	100
14) Carbon disulfide	2.82	76	303516	4.042 ug/L	99
15) Methyl Acetate	2.99	43	40213	4.589 ug/L	98
16) Methylene chloride	3.08	84	117070	3.558 ug/L	99
17) Methyl tert-butyl Ether	3.41	73	228159	4.757 ug/L	99
18) trans-1,2-Dichloroethene	3.39	96	103675	4.423 ug/L	97
19) 1,1-Dichloroethane	3.92	63	193594	4.473 ug/L	96
21) 2-Butanone	4.77	43	276489	47.701 ug/L	99
22) cis-1,2-Dichloroethene	4.71	96	112340	4.468 ug/L	99

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Instrument :
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VSTD00526

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Quant Title : TRACE VOA SOM01.0
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	56023	4.605	ug/L	98
25) Chloroform	5.13	83	209125	4.467	ug/L	97
27) 1,2-Dichloroethane	5.84	62	131515	4.737	ug/L	97
29) 1,1,1-Trichloroethane	5.36	97	178521	4.757	ug/L	100
30) Cyclohexane	5.43	56	151625	4.749	ug/L	97
31) Carbon tetrachloride	5.57	117	160148	4.680	ug/L	99
33) Benzene	5.82	78	441866	4.716	ug/L	100
34) Trichloroethene	6.58	95	114687	4.748	ug/L	97
35) Methylcyclohexane	6.80	83	165995	4.834	ug/L	99
37) 1,2-Dichloropropane	6.83	63	112414	4.703	ug/L	99
38) Bromodichloromethane	7.14	83	151721	4.877	ug/L	98
39) cis-1,3-Dichloropropene	7.64	75	160922	4.942	ug/L	97
40) 4-Methyl-2-pentanone	7.84	43	668776	53.495	ug/L	100
42) Toluene	8.00	91	489004	4.870	ug/L	98
44) trans-1,3-Dichloropropene	8.24	75	138871	5.077	ug/L	98
45) 1,1,2-Trichloroethane	8.43	97	86320	4.820	ug/L	91
47) Tetrachloroethene	8.58	164	102448	4.697	ug/L	93
48) 2-Hexanone	8.72	43	508752	54.529	ug/L	100
49) Dibromochloromethane	8.84	129	109368	4.941	ug/L	99
50) 1,2-Dibromoethane	8.95	107	81412	4.766	ug/L	97
51) Chlorobenzene	9.47	112	309126	4.662	ug/L	99
52) Ethylbenzene	9.60	91	486870	4.827	ug/L	99
53) m,p-Xylene	9.72	106	193538	4.980	ug/L	99
54) o-Xylene	10.13	106	186015	4.963	ug/L	96
55) Styrene	10.14	104	326130	4.917	ug/L	98
56) Isopropylbenzene	10.51	105	487221	5.062	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.81	83	110438	4.844	ug/L	98
59) 1,2,3-Trichloropropane	10.85	75	80164	5.046	ug/L	94
61) Bromoform	10.32	173	68158	4.641	ug/L	99
62) 1,3-Dichlorobenzene	11.77	146	267778	4.692	ug/L	100
63) 1,4-Dichlorobenzene	11.86	146	269617	4.763	ug/L	98
65) 1,2-Dichlorobenzene	12.23	146	255977	4.708	ug/L	97
66) 1,2-Dibromo-3-chloropropan	13.02	75	18380	5.089	ug/L	93
67) 1,3,5-Trichlorobenzene	13.24	180	204277	4.777	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	149855	5.334	ug/L	97
69) Naphthalene	14.10	128	208502	5.834	ug/L	99
70) 1,2,3-Trichlorobenzene	14.35	180	147940	5.445	ug/L	99

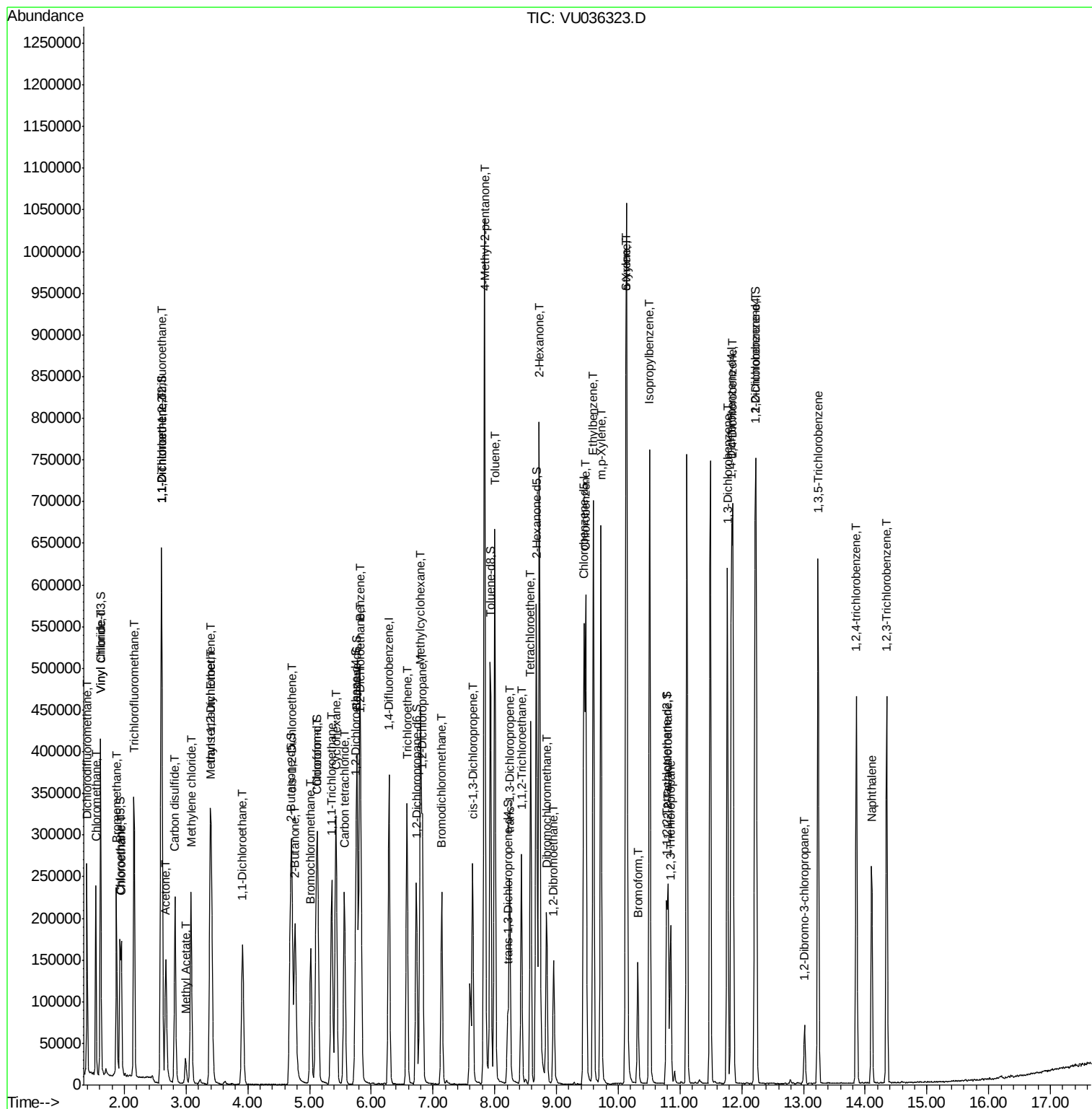
(#) = qualifier out of range (m) = manual integration (+) = signals summed

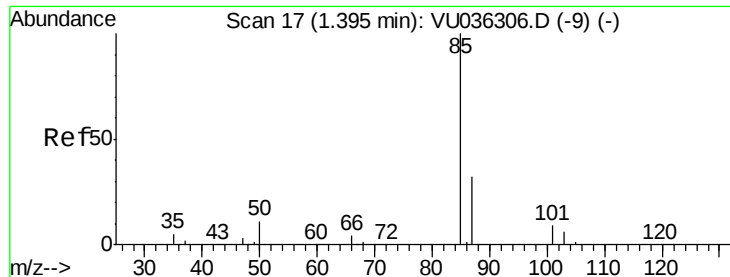
Data File : VU036323.D

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Acq On       : 23 Dec 2019   12:15
Operator     : JC/MD
Sample       : VSTDCCC005
Misc         : 25.0mL/MSV0A_U/WATER
ALS Vial     : 1      Sample Multiplier: 1
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Instrument :
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#2

Dichlorodifluoromethane

Concen: 4.319 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

Instrument :

MSVOA_U

ClientSampleId :

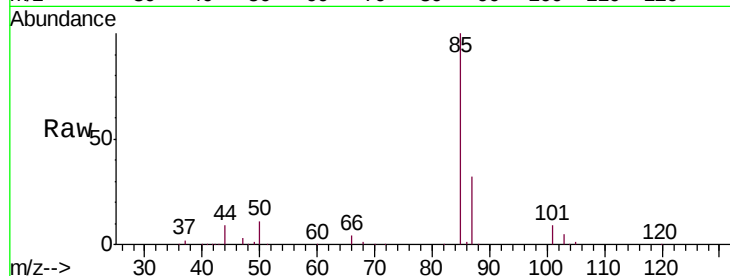
VSTD00526

Tgt Ion: 85 Resp: 145437

Ion Ratio Lower Upper

85 100

87 32.4 26.5 39.7



Abundance Ion 85.00 (84.70 to 85.70): VU036323.D (-1) (-)

Ion 87.00 (86.70 to 87.70): VU036323.D (-1) (-)

1.39

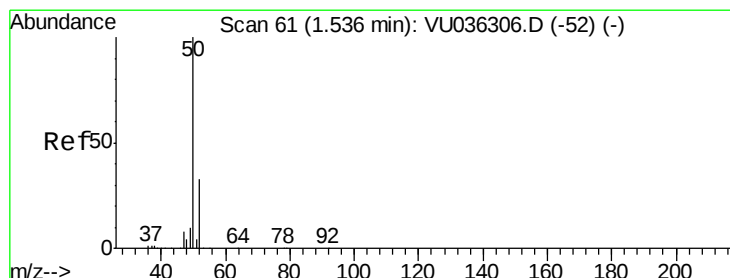
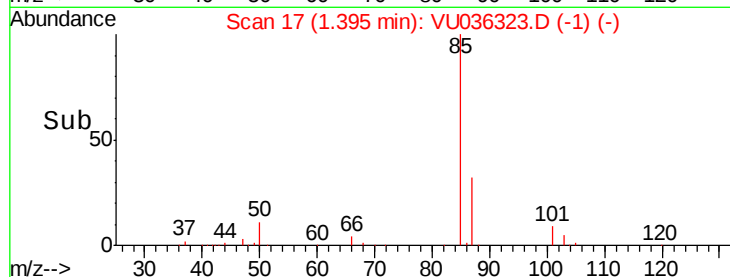
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 3.812 ug/L

RT: 1.54 min Scan# 61

Delta R.T. 0.00 min

Lab File: VU036323.D

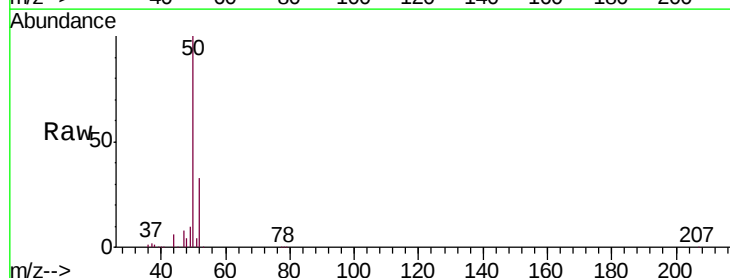
Acq: 23 Dec 2019 12:15

Tgt Ion: 50 Resp: 161070

Ion Ratio Lower Upper

50 100

52 32.6 23.1 42.9



Abundance Ion 50.05 (49.75 to 50.75): VU036323.D (-1) (-)

Ion 52.05 (51.75 to 52.75): VU036323.D (-1) (-)

1.54

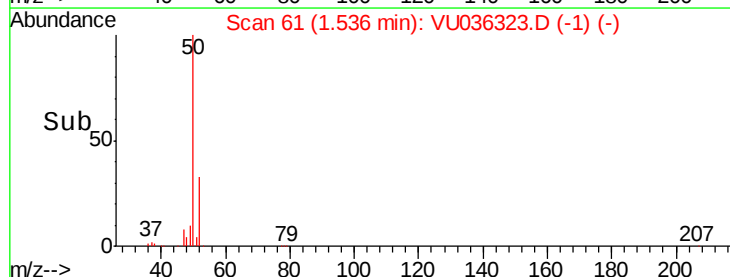
150000

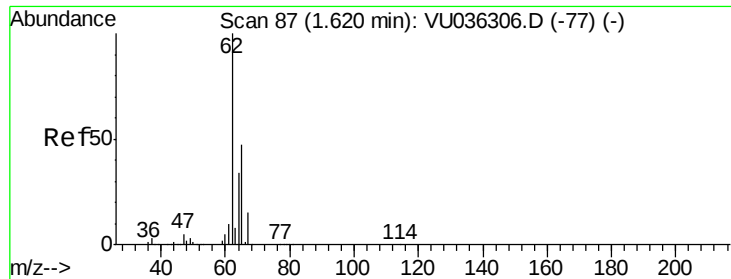
100000

50000

0

Time-->





#5

Vinyl chloride

Concen: 4.152 ug/L

RT: 1.62 min Scan# 86

Delta R.T. -0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

Instrument :

MSVOA_U

ClientSampleId :

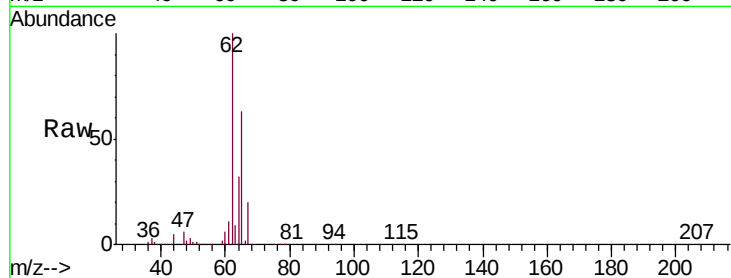
VSTD00526

Tgt Ion: 62 Resp: 166455

Ion Ratio Lower Upper

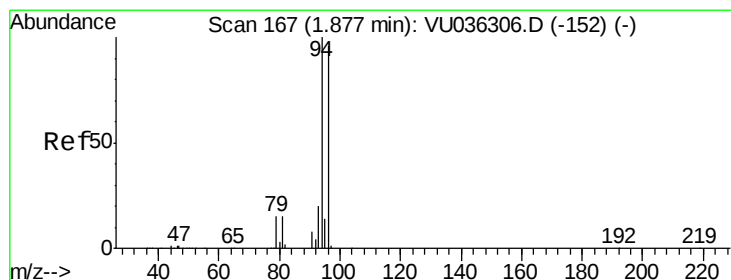
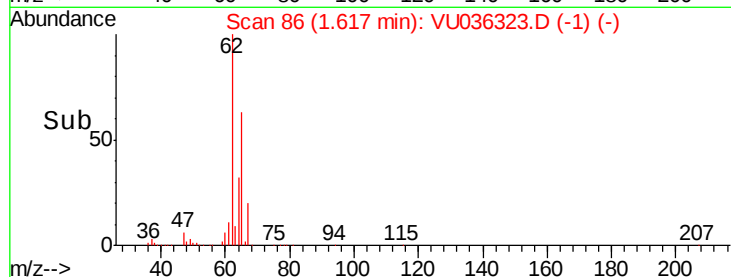
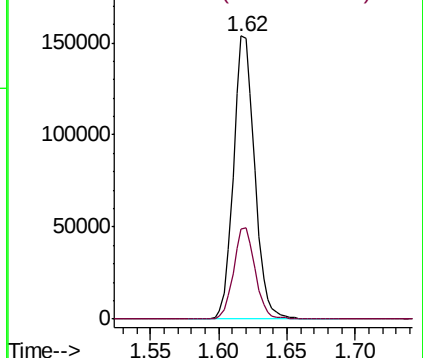
62 100

64 31.7 22.4 41.6



Abundance Ion 62.00 (61.70 to 62.70): VU036323.D (-77) (-)

Ion 64.10 (63.80 to 64.80): VU036323.D (-77) (-)



#6

Bromomethane

Concen: 4.913 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU036323.D

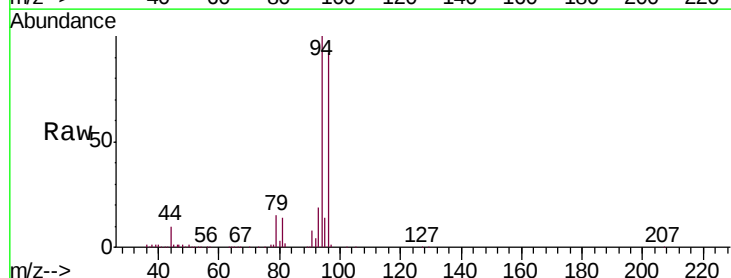
Acq: 23 Dec 2019 12:15

Tgt Ion: 94 Resp: 98408

Ion Ratio Lower Upper

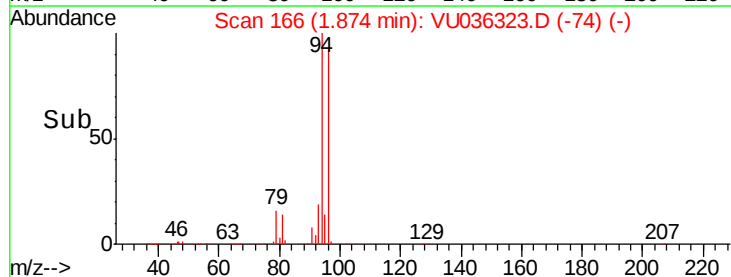
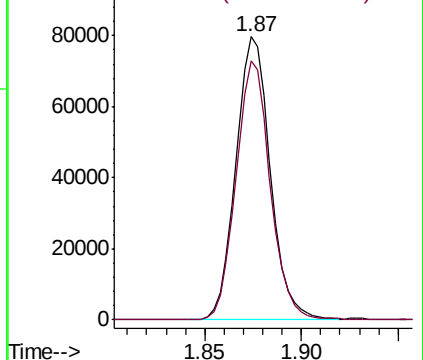
94 100

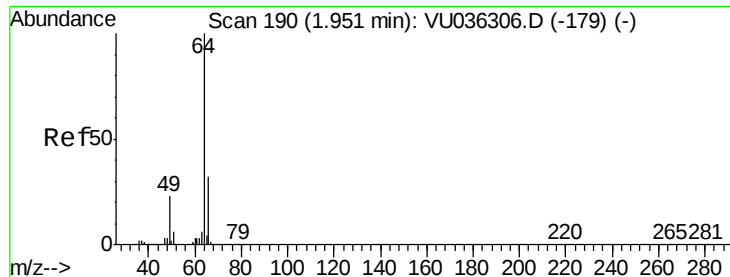
96 91.7 62.9 116.9



Abundance Ion 94.00 (93.70 to 94.70): VU036323.D (-152) (-)

Ion 96.00 (95.70 to 96.70): VU036323.D (-152) (-)

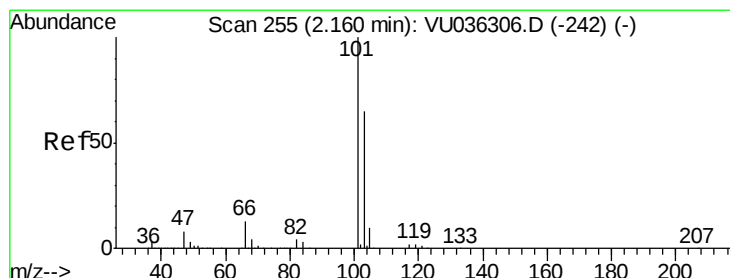
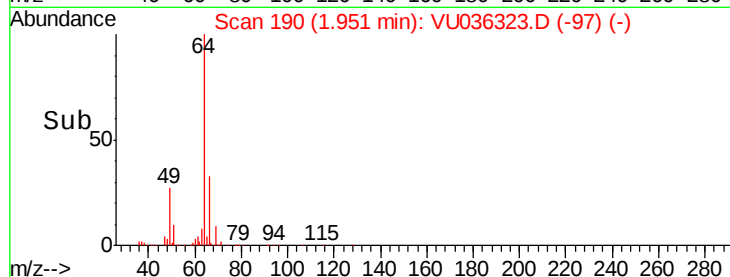
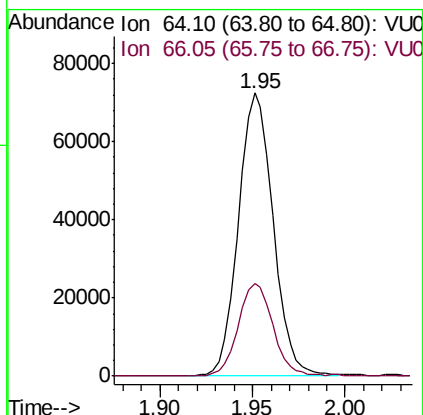
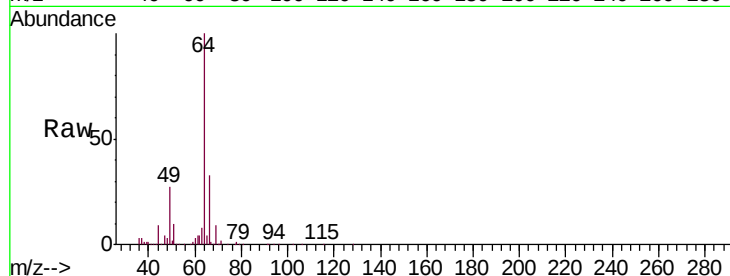




#8
Chloroethane
Concen: 3.921 ug/L
RT: 1.95 min Scan# 190
Delta R.T. 0.00 min
Lab File: VU036323.D
Acq: 23 Dec 2019 12:15

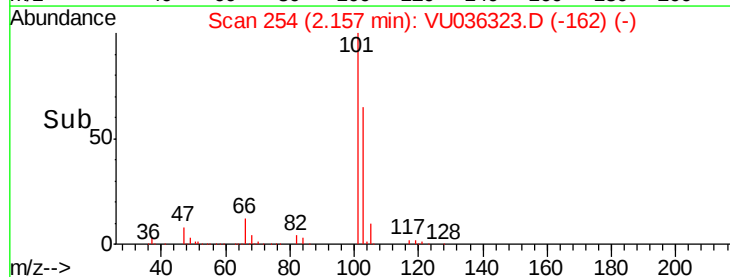
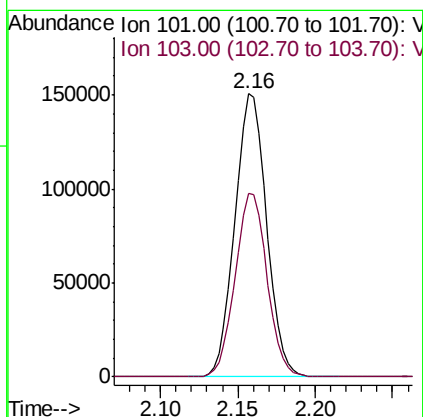
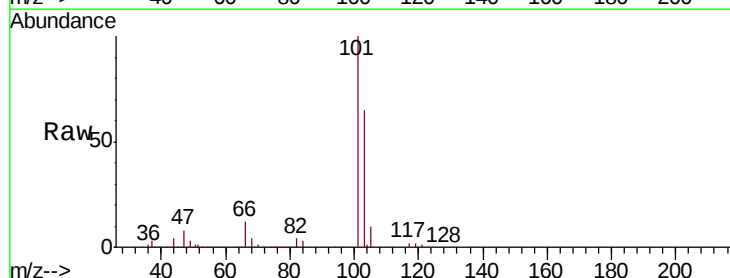
Instrument :
MSVOA_U
ClientSampleId :
VSTD00526

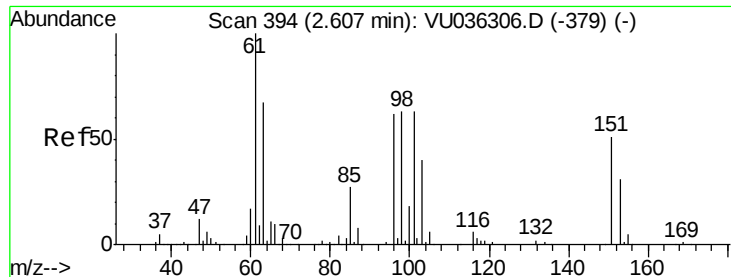
Tgt Ion: 64 Resp: 93866
Ion Ratio Lower Upper
64 100
66 32.9 23.1 42.9



#9
Trichlorofluoromethane
Concen: 4.244 ug/L
RT: 2.16 min Scan# 254
Delta R.T. -0.00 min
Lab File: VU036323.D
Acq: 23 Dec 2019 12:15

Tgt Ion: 101 Resp: 214390
Ion Ratio Lower Upper
101 100
103 65.4 50.4 75.6





#10

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

Concen: 4.463 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD00526

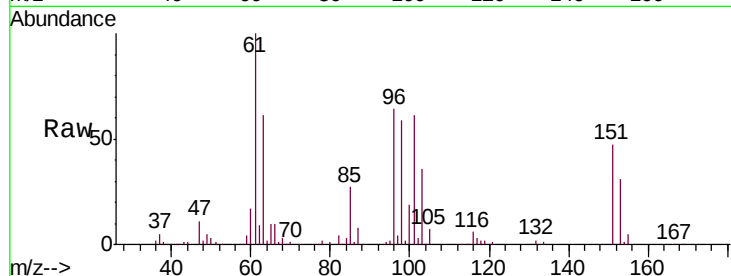
Tgt Ion: 101 Resp: 108020

Ion Ratio Lower Upper

101 100

85 43.5 35.0 52.6

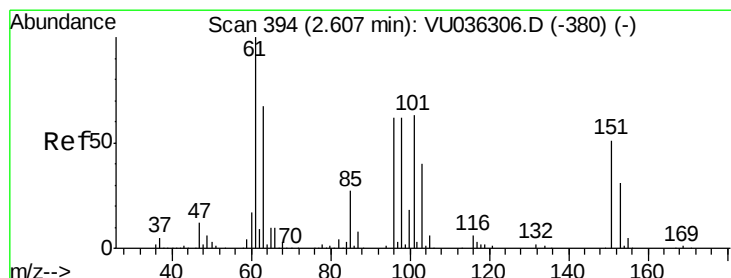
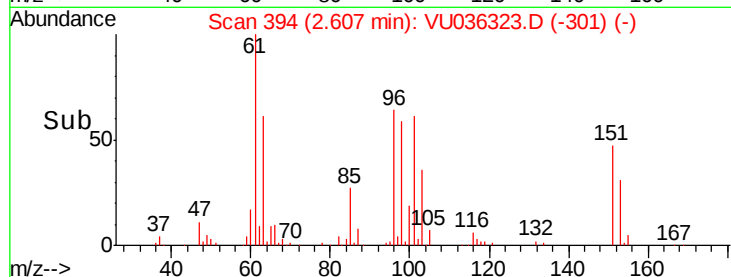
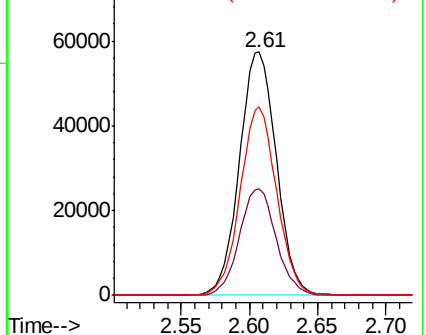
151 76.7 63.9 95.9



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



#12

1,1-Dichloroethene

Concen: 4.373 ug/L

RT: 2.61 min Scan# 394

Delta R.T. 0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

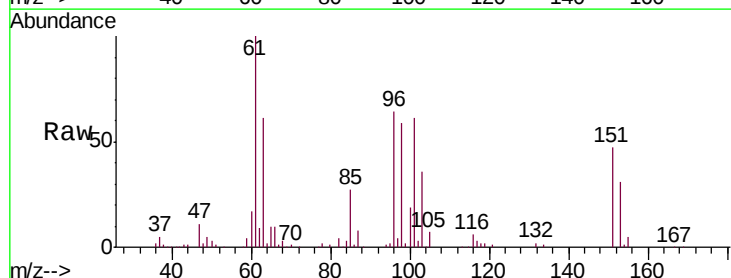
Tgt Ion: 96 Resp: 97881

Ion Ratio Lower Upper

96 100

61 155.7 114.0 211.8

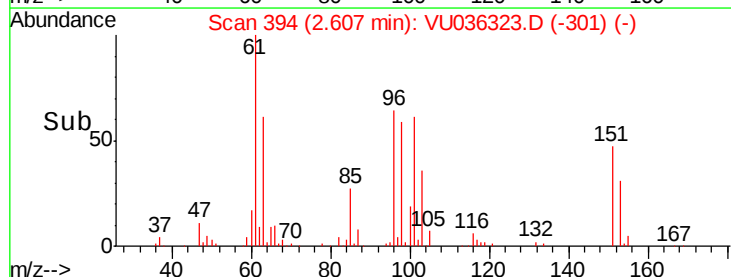
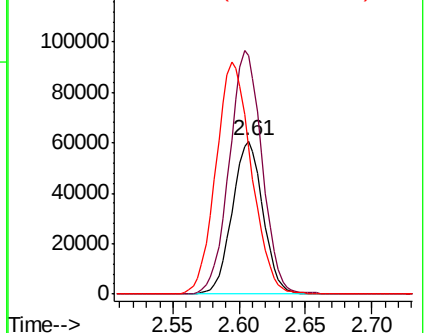
63 95.5 63.6 118.0

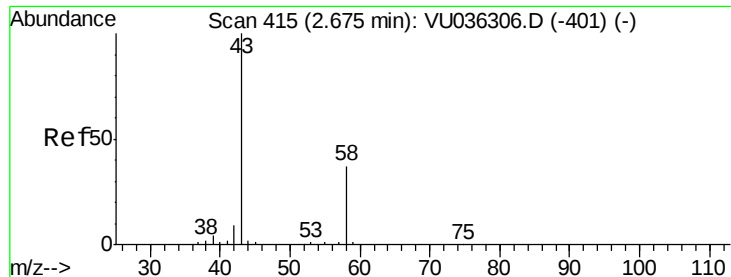


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 45.271 ug/L

RT: 2.67 min Scan# 414

Delta R.T. -0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

Instrument :

MSVOA_U

ClientSampleId :

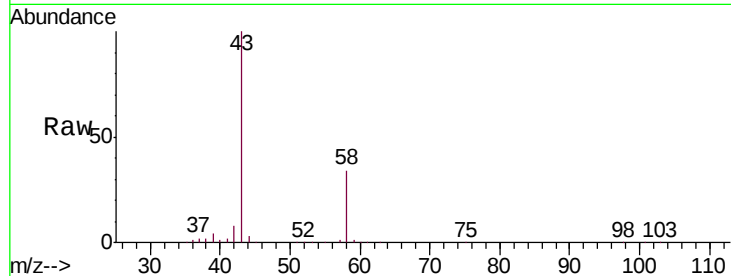
VSTD00526

Tgt Ion: 43 Resp: 196370

Ion Ratio Lower Upper

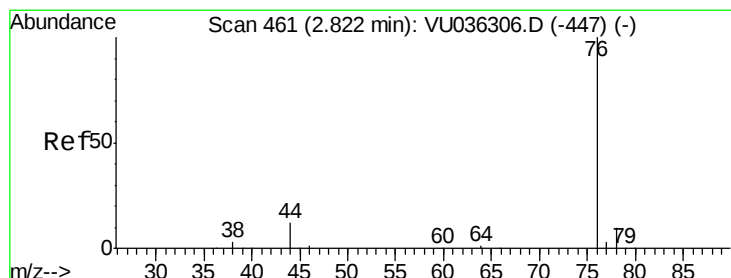
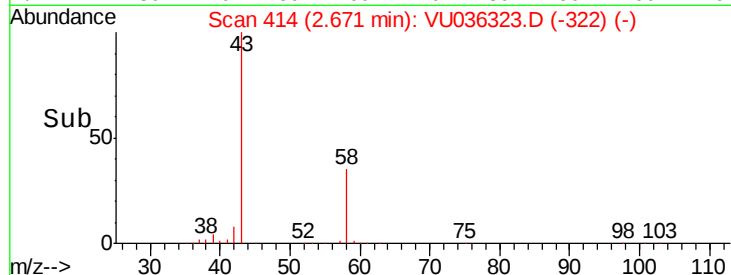
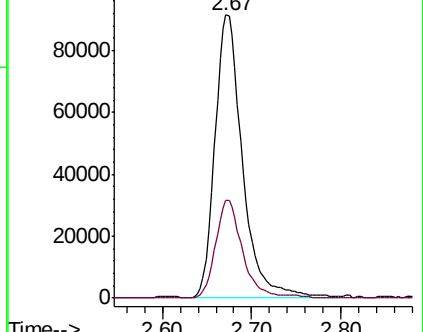
43 100

58 34.1 0.0 67.6



Abundance Ion 43.05 (42.75 to 43.75): VU036323.D (-322) (-)

Ion 58.05 (57.75 to 58.75): VU036323.D (-322) (-)



#14

Carbon disulfide

Concen: 4.042 ug/L

RT: 2.82 min Scan# 461

Delta R.T. 0.00 min

Lab File: VU036323.D

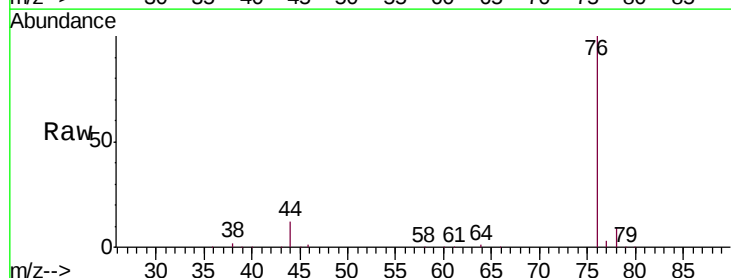
Acq: 23 Dec 2019 12:15

Tgt Ion: 76 Resp: 303516

Ion Ratio Lower Upper

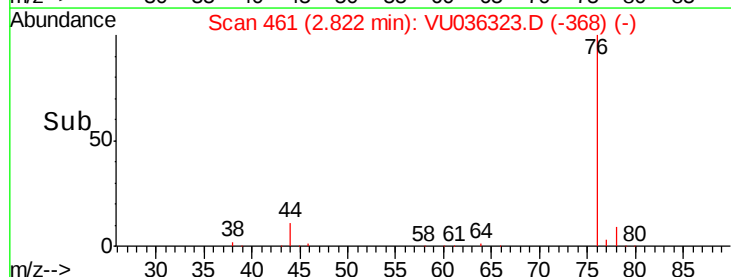
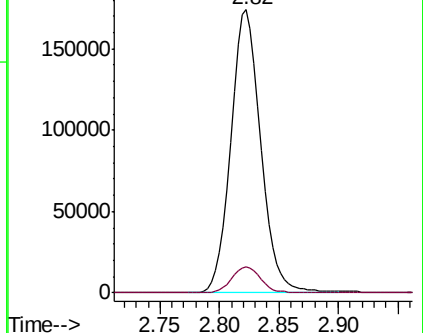
76 100

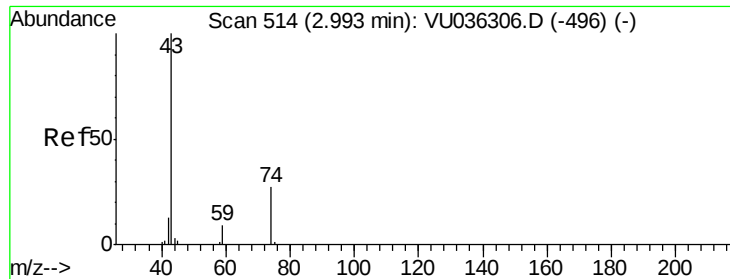
78 9.1 7.1 10.7



Abundance Ion 76.05 (75.75 to 76.75): VU036323.D (-368) (-)

Ion 78.00 (77.70 to 78.70): VU036323.D (-368) (-)

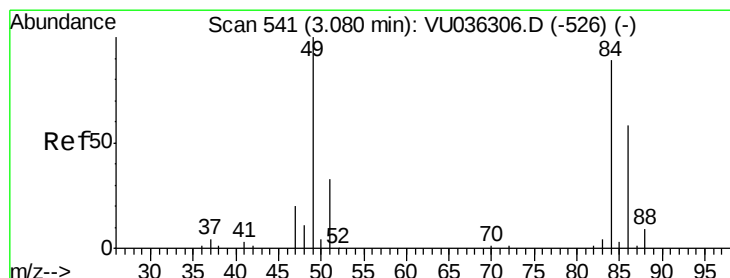
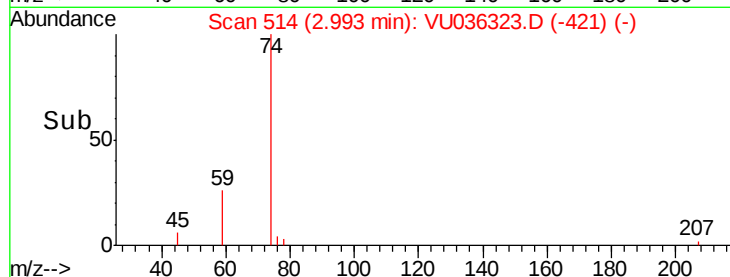
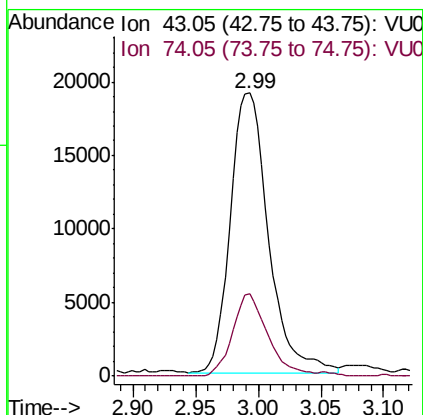
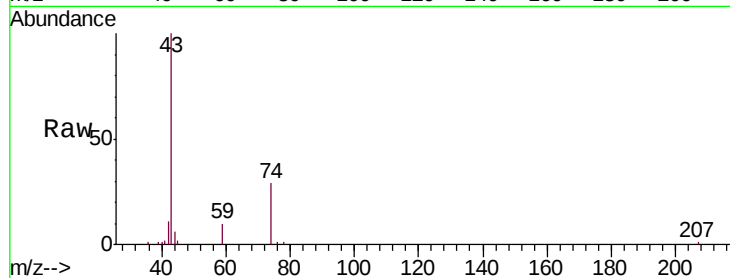




#15
Methyl Acetate
Concen: 4.589 ug/L
RT: 2.99 min Scan# 514
Delta R.T. 0.00 min
Lab File: VU036323.D
Acq: 23 Dec 2019 12:15

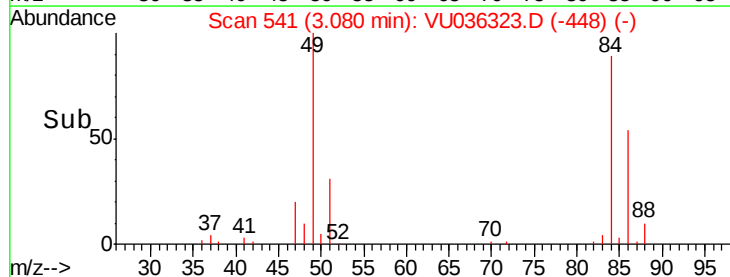
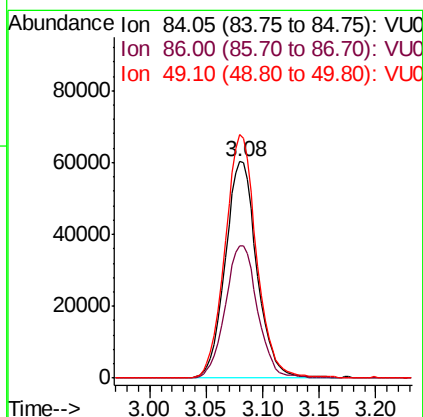
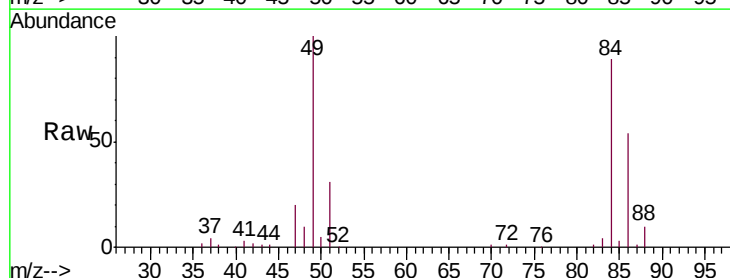
Instrument :
MSVOA_U
ClientSampleId :
VSTD00526

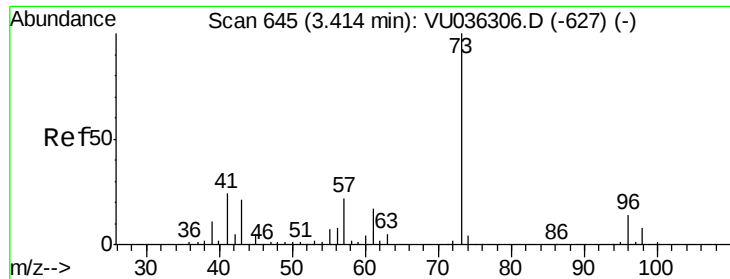
Tgt Ion: 43 Resp: 40213
Ion Ratio Lower Upper
43 100
74 27.0 20.8 31.2



#16
Methylene chloride
Concen: 3.558 ug/L
RT: 3.08 min Scan# 541
Delta R.T. 0.00 min
Lab File: VU036323.D
Acq: 23 Dec 2019 12:15

Tgt Ion: 84 Resp: 117070
Ion Ratio Lower Upper
84 100
86 61.2 43.0 79.8
49 112.6 77.3 143.5

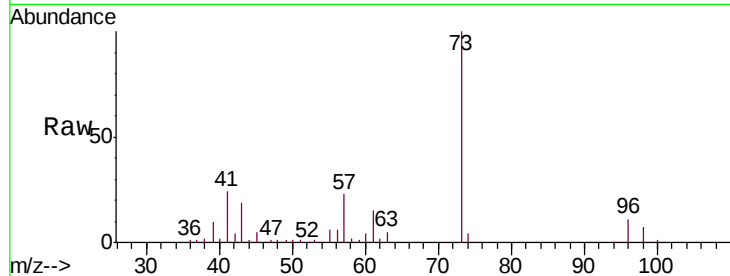




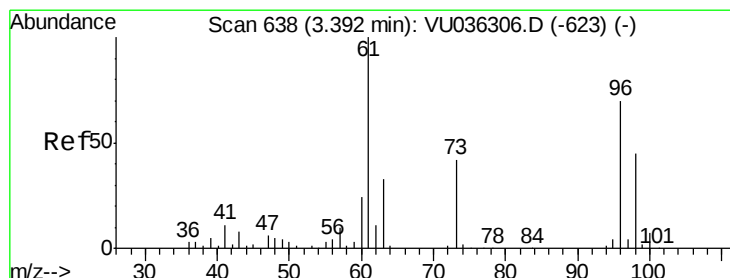
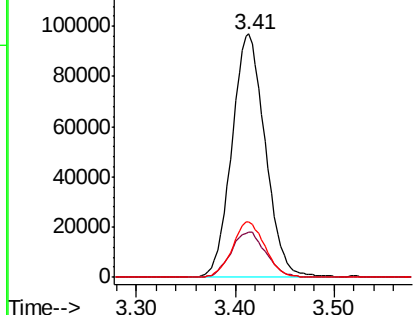
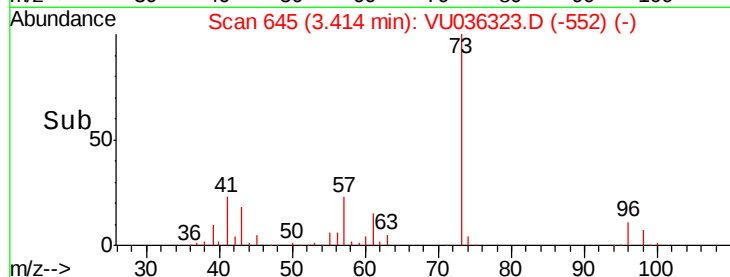
#17
Methyl tert-butyl Ether
Concen: 4.757 ug/L
RT: 3.41 min Scan# 645
Delta R.T. 0.00 min
Lab File: VU036323.D
Acq: 23 Dec 2019 12:15

Instrument :
MSVOA_U
ClientSampleId :
VSTD00526

Tgt Ion: 73 Resp: 228159
Ion Ratio Lower Upper
73 100
43 19.7 15.3 22.9
57 22.3 18.2 27.2

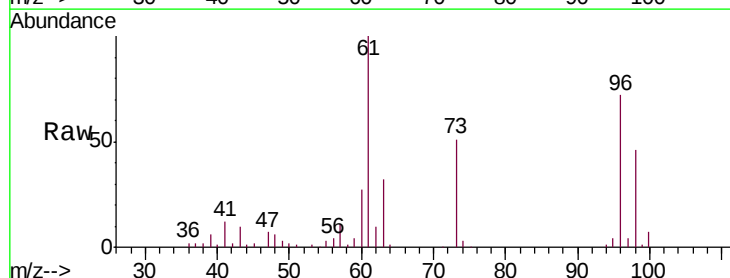


Abundance Ion 73.10 (72.80 to 73.80): VU0
Ion 43.05 (42.75 to 43.75): VU0
Ion 57.10 (56.80 to 57.80): VU0

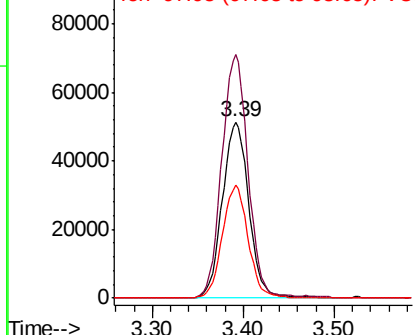
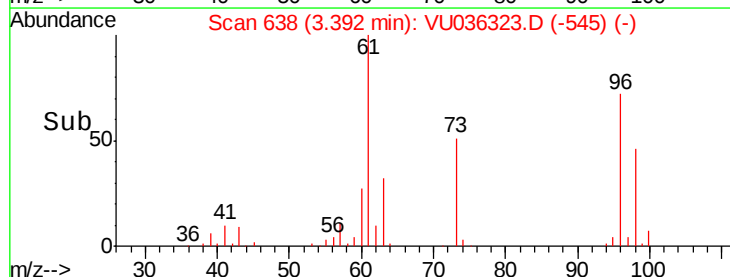


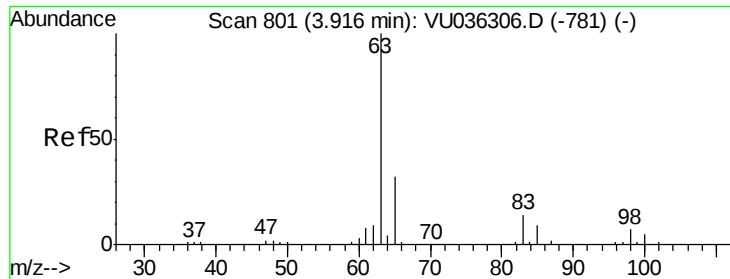
#18
trans-1,2-Dichloroethene
Concen: 4.423 ug/L
RT: 3.39 min Scan# 638
Delta R.T. 0.00 min
Lab File: VU036323.D
Acq: 23 Dec 2019 12:15

Tgt Ion: 96 Resp: 103675
Ion Ratio Lower Upper
96 100
61 138.5 94.8 176.2
98 64.1 46.8 86.8



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.05 (60.75 to 61.75): VU0
Ion 97.95 (97.65 to 98.65): VU0

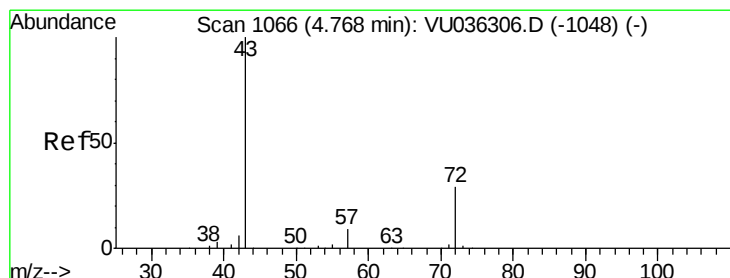
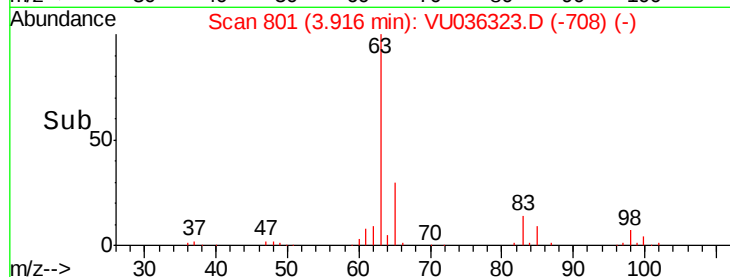
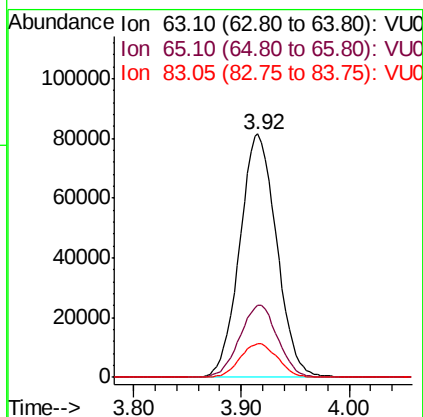
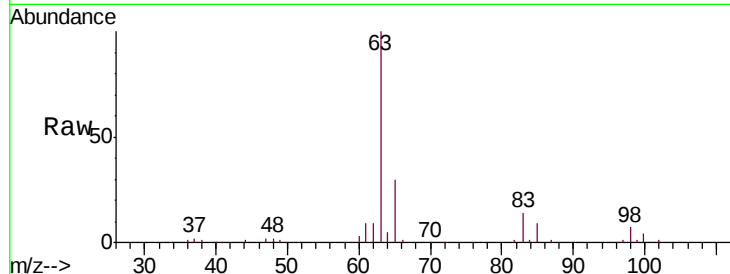




#19
 1,1-Dichloroethane
 Concen: 4.473 ug/L
 RT: 3.92 min Scan# 801
 Delta R.T. -0.00 min
 Lab File: VU036323.D
 Acq: 23 Dec 2019 12:15

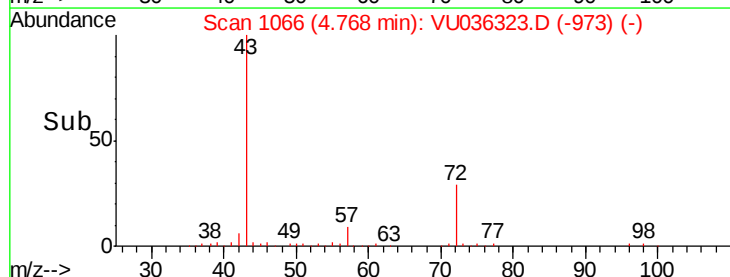
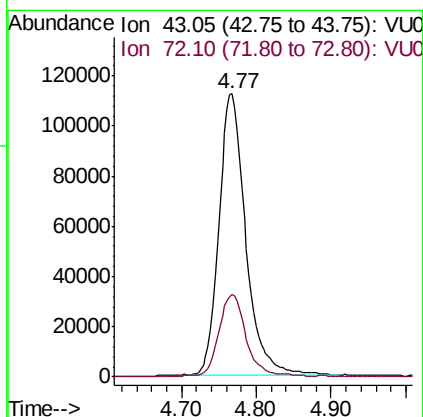
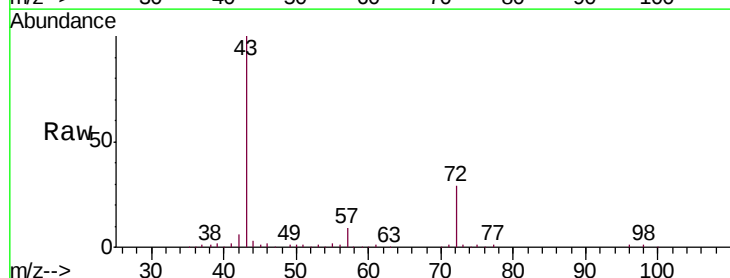
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00526

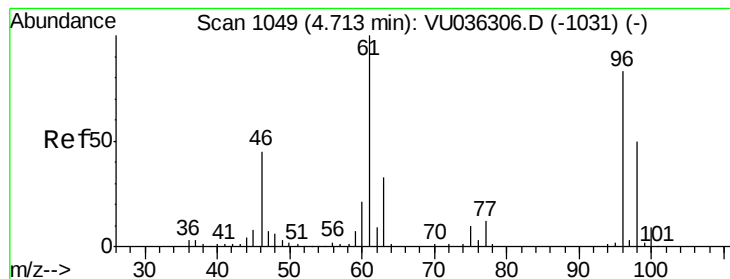
Tgt Ion: 63 Resp: 193594
 Ion Ratio Lower Upper
 63 100
 65 29.5 22.6 42.0
 83 13.7 9.7 18.1



#21
 2-Butanone
 Concen: 47.701 ug/L
 RT: 4.77 min Scan# 1066
 Delta R.T. 0.00 min
 Lab File: VU036323.D
 Acq: 23 Dec 2019 12:15

Tgt Ion: 43 Resp: 276489
 Ion Ratio Lower Upper
 43 100
 72 29.5 14.4 43.4





#22

cis-1,2-Dichloroethene

Concen: 4.468 ug/L

RT: 4.71 min Scan# 1049

Delta R.T. 0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD00526

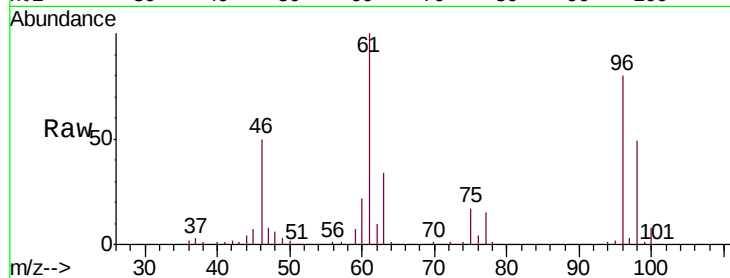
Tgt Ion: 96 Resp: 112340

Ion Ratio Lower Upper

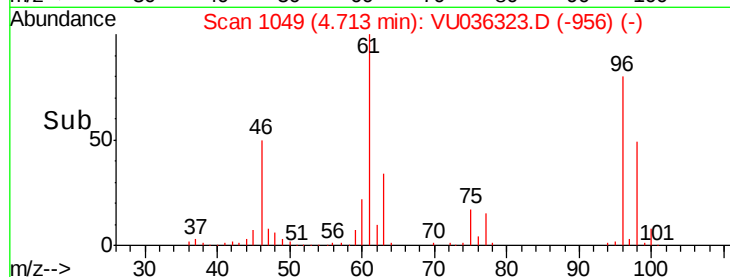
96 100

61 125.4 86.7 161.1

68 0.0 0.0 0.0



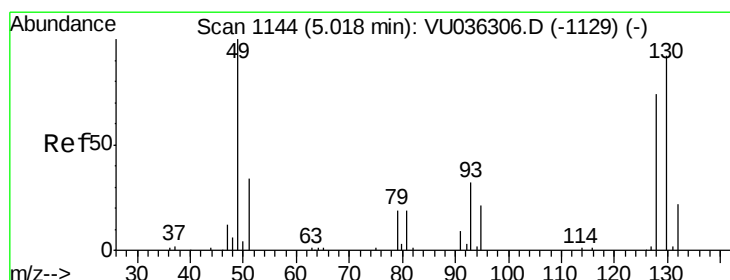
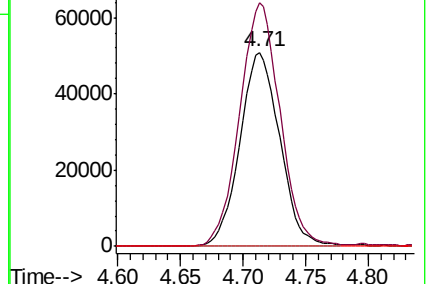
Abundance Ion 96.00 (95.70 to 96.70): VU036323.D (-956) (-)



Ion 61.05 (60.75 to 61.75): VU036323.D (-956) (-)

Ion 68.15 (67.85 to 68.85): VU036323.D (-956) (-)

Time-->



#23

Bromochloromethane

Concen: 4.605 ug/L

RT: 5.02 min Scan# 1145

Delta R.T. 0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

Tgt Ion: 128 Resp: 56023

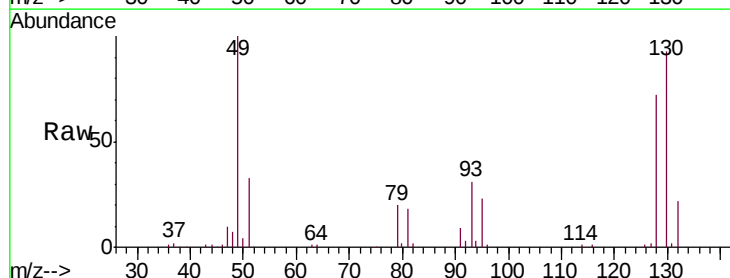
Ion Ratio Lower Upper

128 100

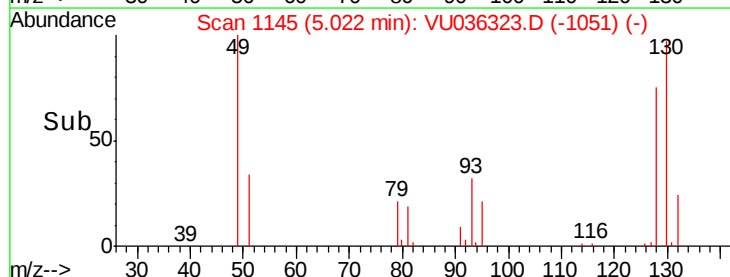
49 139.3 97.6 181.4

130 129.4 85.9 159.5

51 46.2 37.0 55.4



Abundance Ion 127.90 (127.60 to 128.60): VU036323.D (-1051) (-)

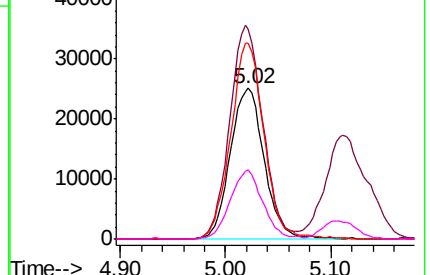


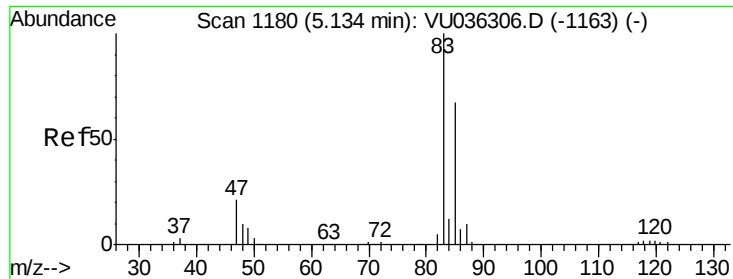
Ion 49.10 (48.80 to 49.80): VU036323.D (-1051) (-)

Ion 129.95 (129.65 to 130.65): VU036323.D (-1051) (-)

Ion 51.05 (50.75 to 51.75): VU036323.D (-1051) (-)

Time-->

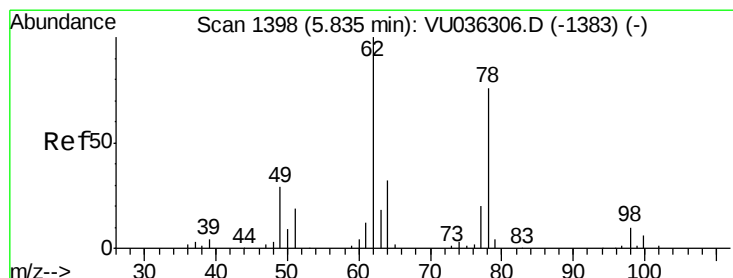
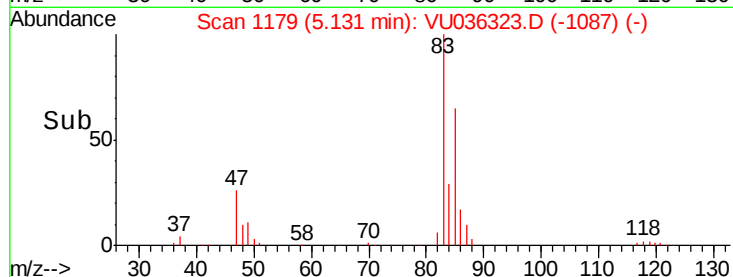
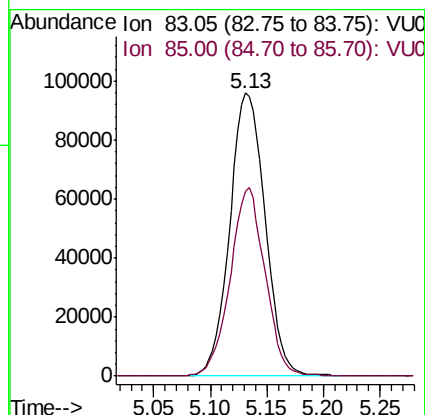
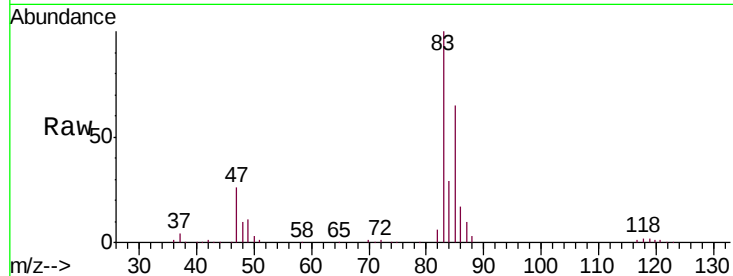




#25
Chloroform
Concen: 4.467 ug/L
RT: 5.13 min Scan# 1179
Delta R.T. -0.00 min
Lab File: VU036323.D
Acq: 23 Dec 2019 12:15

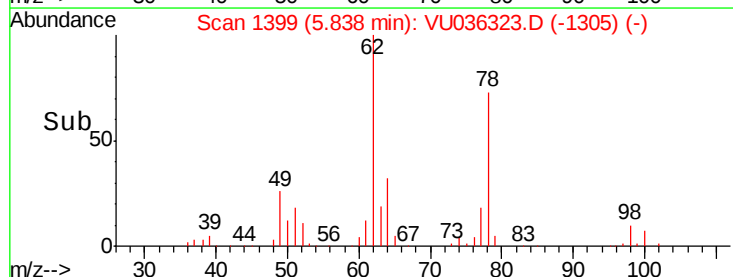
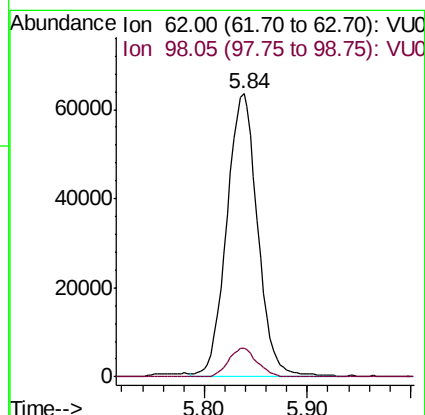
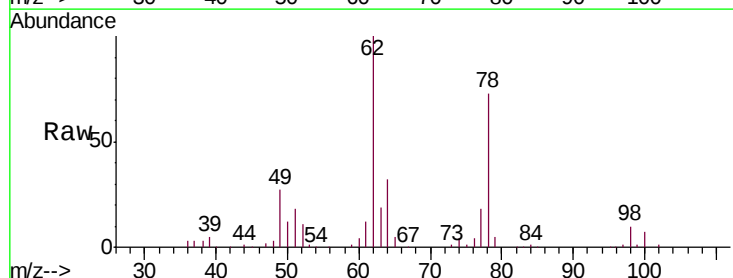
Instrument :
MSVOA_U
ClientSampleId :
VSTD00526

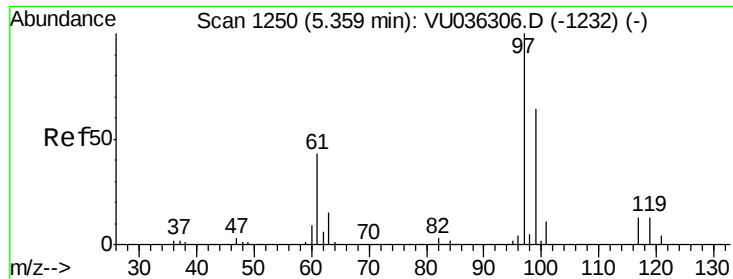
Tgt Ion: 83 Resp: 209125
Ion Ratio Lower Upper
83 100
85 65.2 47.5 88.1



#27
1,2-Dichloroethane
Concen: 4.737 ug/L
RT: 5.84 min Scan# 1399
Delta R.T. 0.00 min
Lab File: VU036323.D
Acq: 23 Dec 2019 12:15

Tgt Ion: 62 Resp: 131515
Ion Ratio Lower Upper
62 100
98 10.3 7.3 10.9

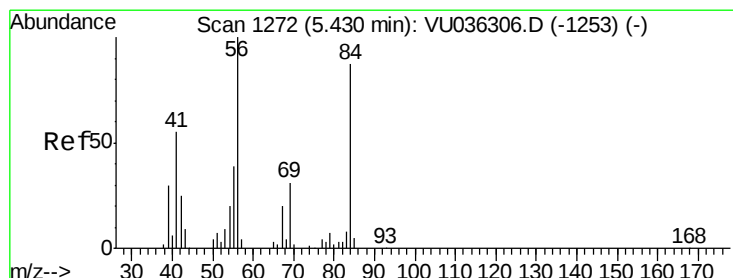
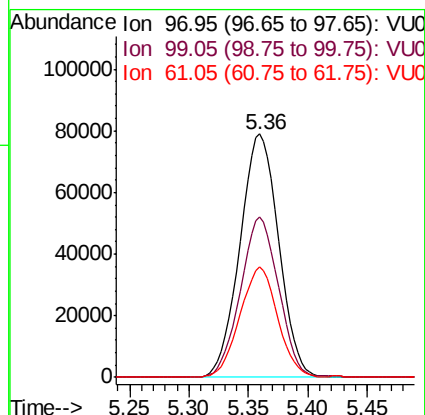
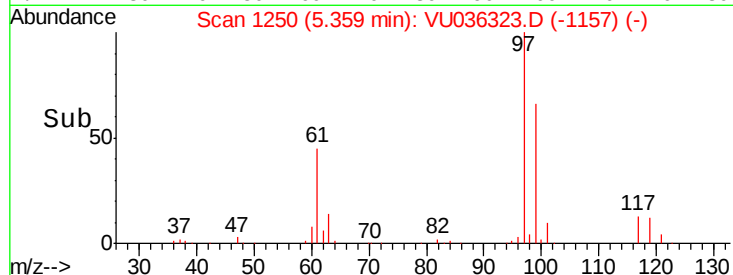
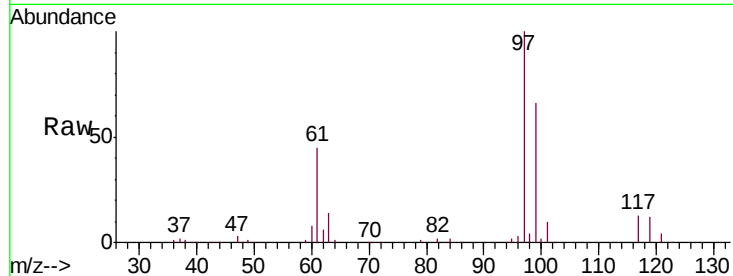




#29
 1,1,1-Trichloroethane
 Concen: 4.757 ug/L
 RT: 5.36 min Scan# 1250
 Delta R.T. 0.00 min
 Lab File: VU036323.D
 Acq: 23 Dec 2019 12:15

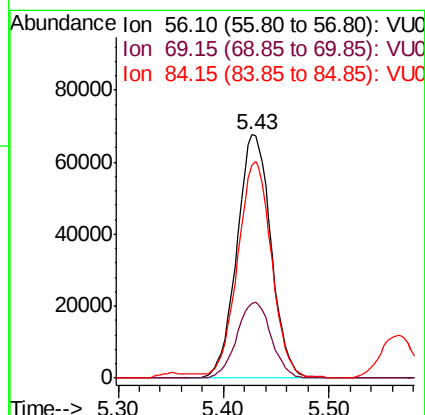
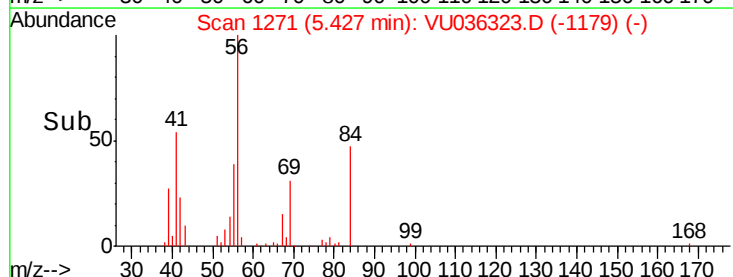
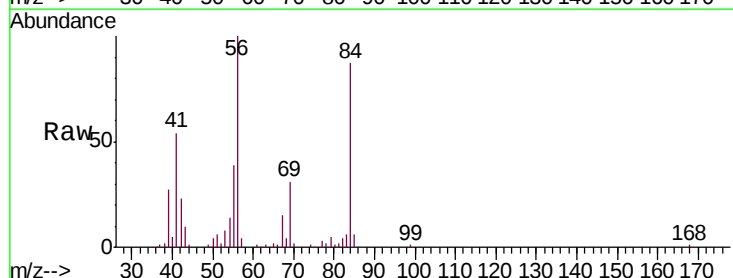
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00526

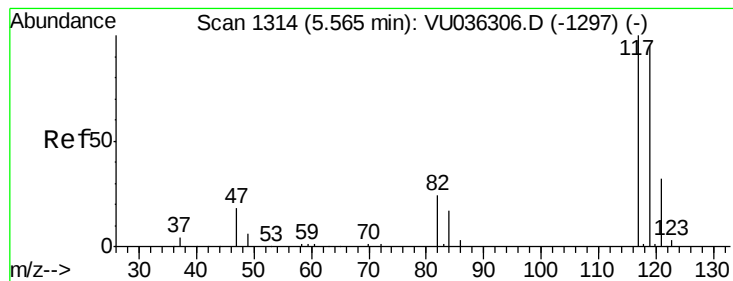
Tgt Ion: 97 Resp: 178521
 Ion Ratio Lower Upper
 97 100
 99 64.7 51.4 77.2
 61 44.1 35.0 52.6



#30
 Cyclohexane
 Concen: 4.749 ug/L
 RT: 5.43 min Scan# 1271
 Delta R.T. -0.00 min
 Lab File: VU036323.D
 Acq: 23 Dec 2019 12:15

Tgt Ion: 56 Resp: 151625
 Ion Ratio Lower Upper
 56 100
 69 31.3 25.6 38.4
 84 87.6 73.0 109.4





#31

Carbon tetrachloride

Concen: 4.680 ug/L

RT: 5.57 min Scan# 1314

Delta R.T. -0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

Instrument :

MSVOA_U

ClientSampleId :

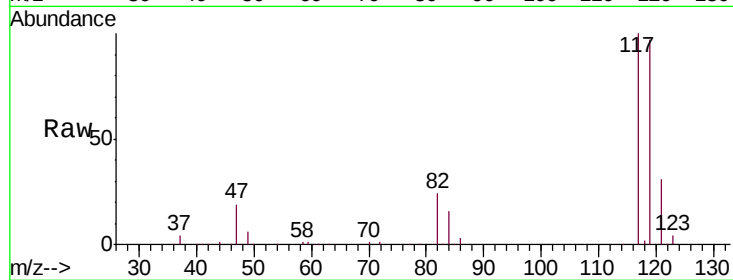
VSTD00526

Tgt Ion:117 Resp: 160148

Ion Ratio Lower Upper

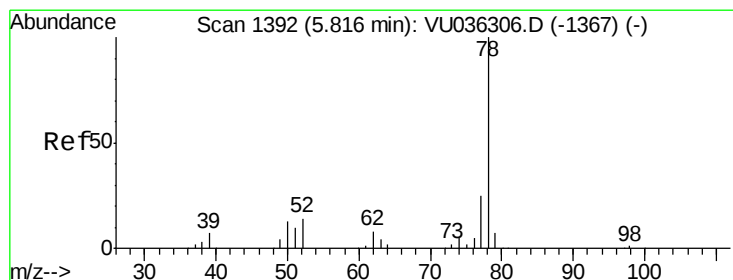
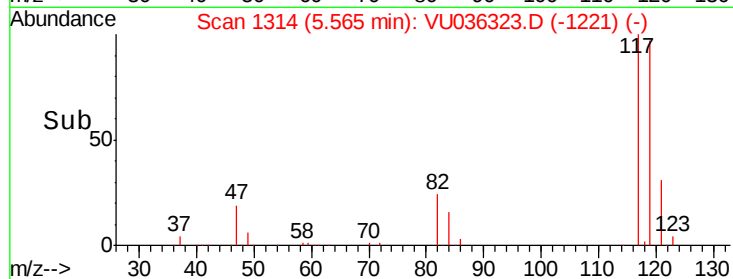
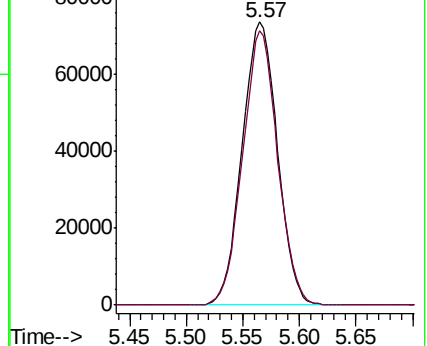
117 100

119 95.6 77.2 115.8



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 4.716 ug/L

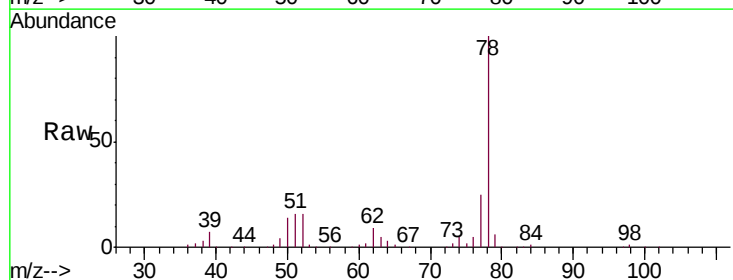
RT: 5.82 min Scan# 1392

Delta R.T. 0.00 min

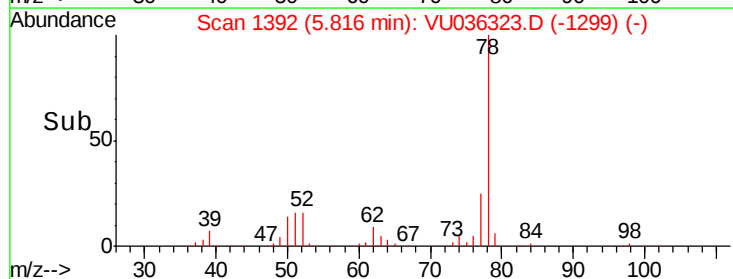
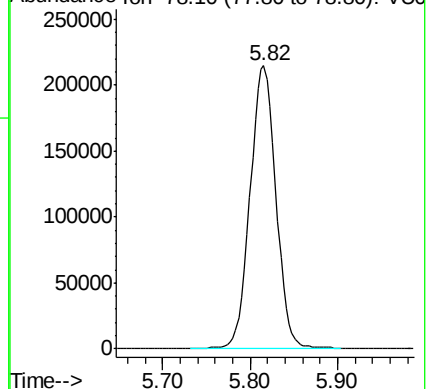
Lab File: VU036323.D

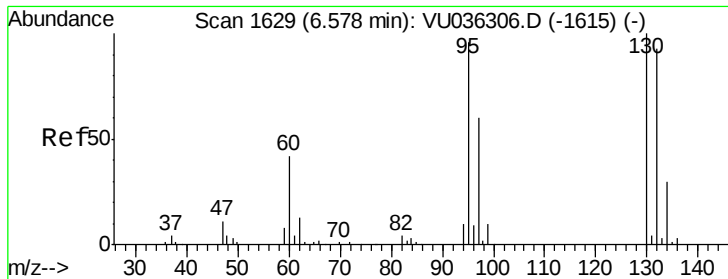
Acq: 23 Dec 2019 12:15

Tgt Ion: 78 Resp: 441866



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 4.748 ug/L

RT: 6.58 min Scan# 1629

Delta R.T. 0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD00526

Tgt Ion: 95 Resp: 114687

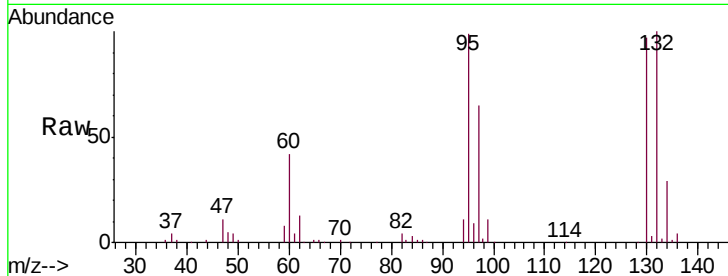
Ion Ratio Lower Upper

95 100

97 65.5 43.6 81.0

132 100.9 69.6 129.2

130 97.5 70.3 130.7

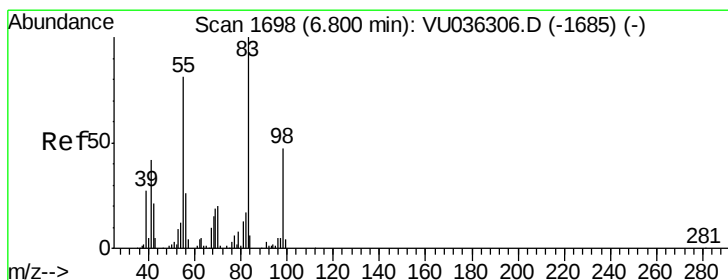
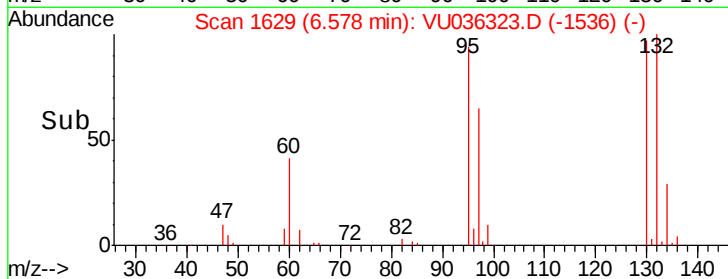
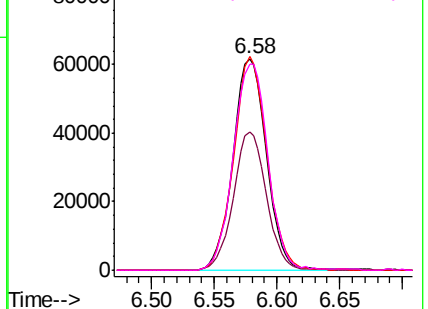


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.834 ug/L

RT: 6.80 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

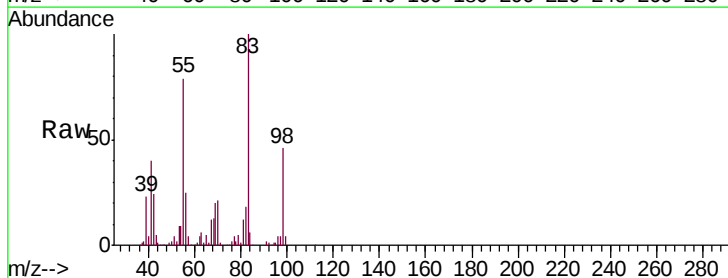
Tgt Ion: 83 Resp: 165995

Ion Ratio Lower Upper

83 100

55 78.7 62.6 94.0

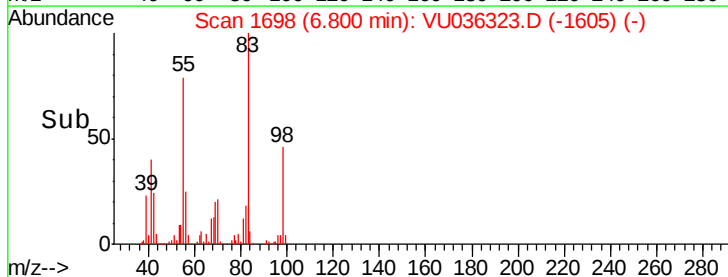
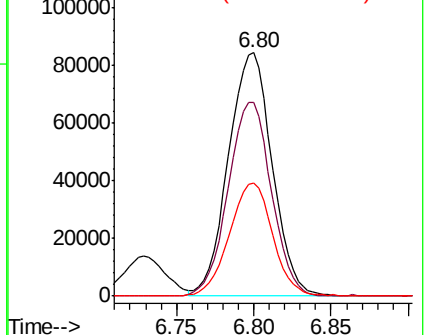
98 46.0 36.2 54.2

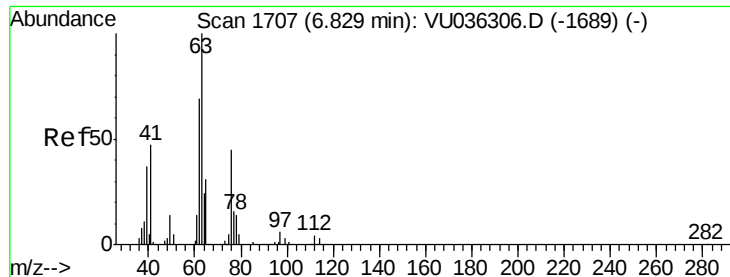


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0

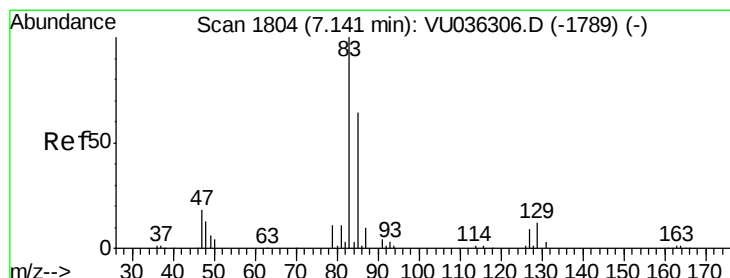
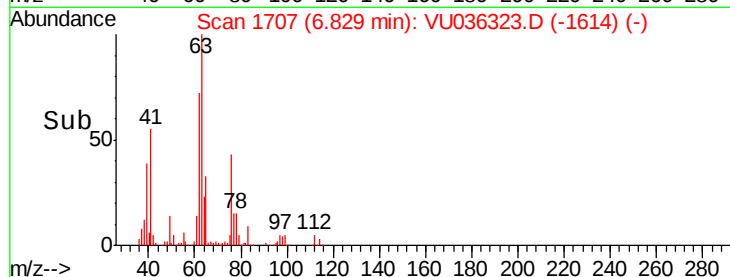
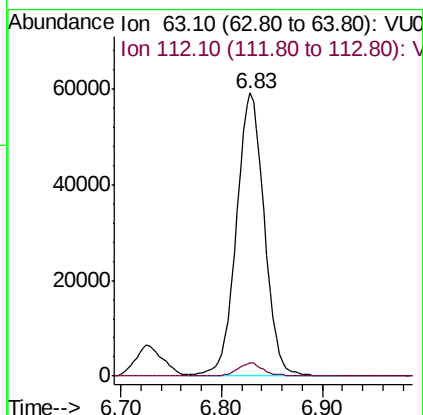
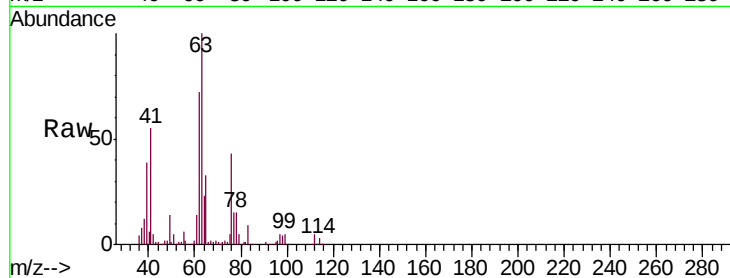




#37
 1,2-Dichloropropane
 Concen: 4.703 ug/L
 RT: 6.83 min Scan# 1707
 Delta R.T. 0.00 min
 Lab File: VU036323.D
 Acq: 23 Dec 2019 12:15

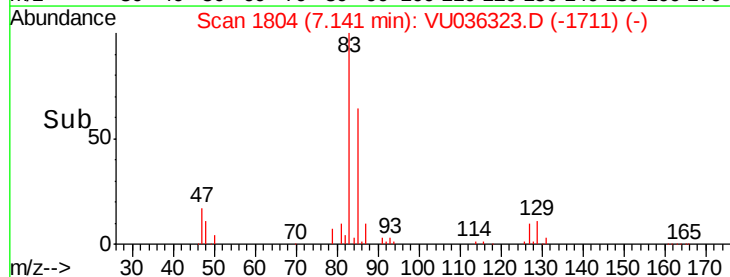
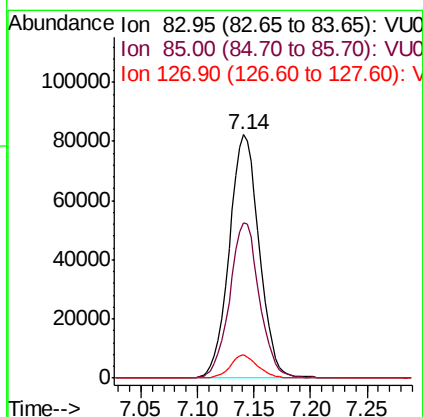
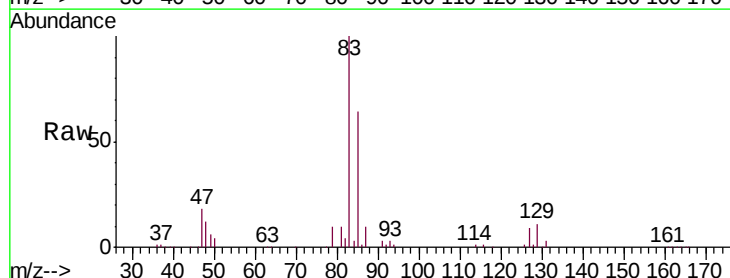
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00526

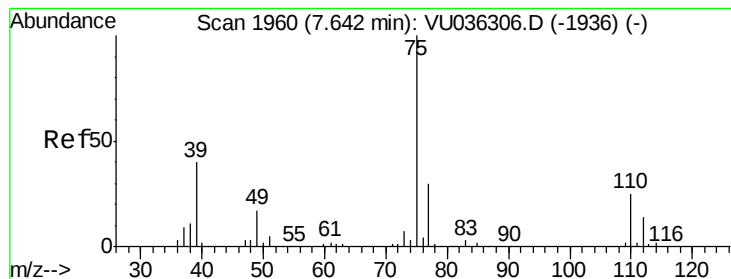
Tgt Ion: 63 Resp: 112414
 Ion Ratio Lower Upper
 63 100
 112 4.4 3.8 5.8



#38
 Bromodichloromethane
 Concen: 4.877 ug/L
 RT: 7.14 min Scan# 1804
 Delta R.T. -0.00 min
 Lab File: VU036323.D
 Acq: 23 Dec 2019 12:15

Tgt Ion: 83 Resp: 151721
 Ion Ratio Lower Upper
 83 100
 85 63.9 45.6 84.6
 127 9.5 7.1 10.7



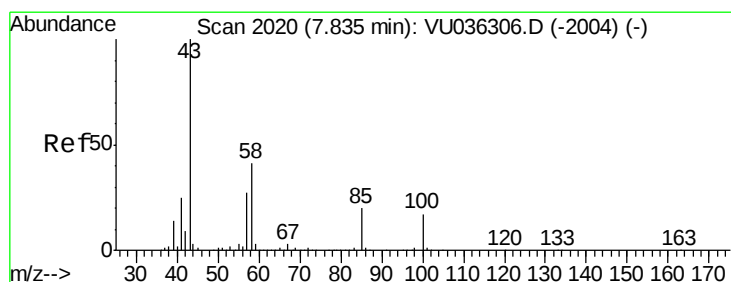
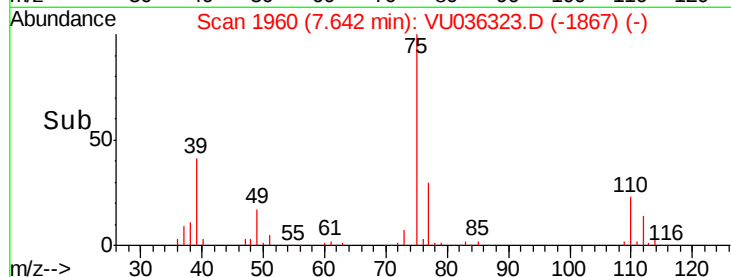
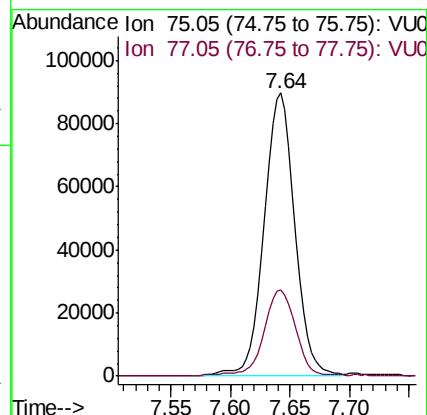
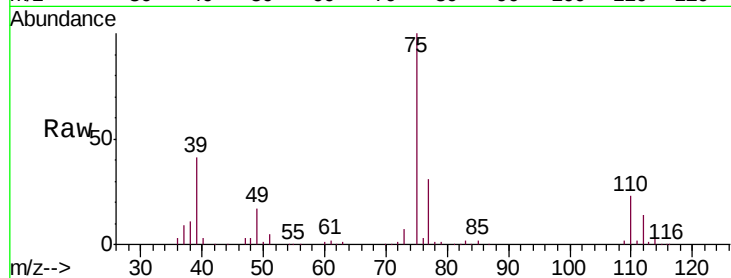


#39

cis-1,3-Dichloropropene
 Concen: 4.942 ug/L
 RT: 7.64 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VU036323.D
 Acq: 23 Dec 2019 12:15

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00526

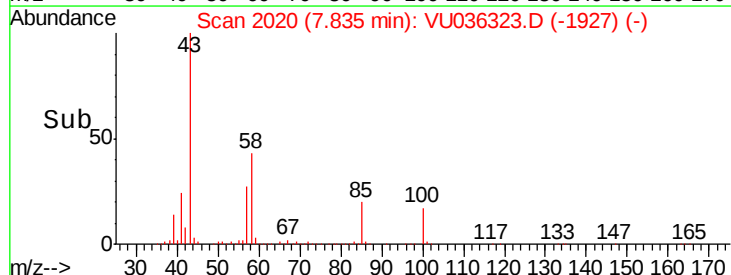
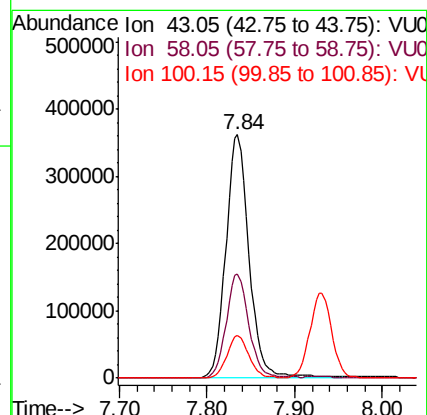
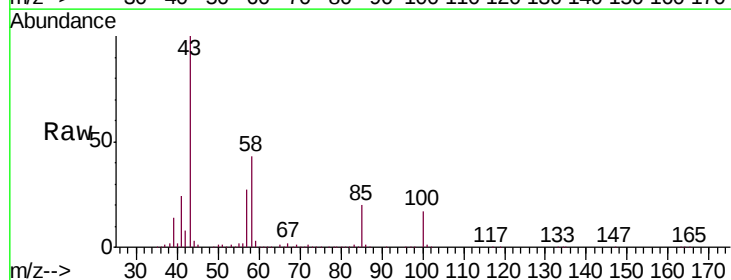
Tgt Ion: 75 Resp: 160922
 Ion Ratio Lower Upper
 75 100
 77 30.6 22.7 42.1

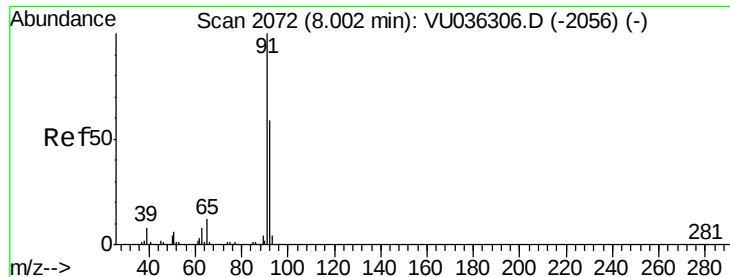


#40

4-Methyl-2-pentanone
 Concen: 53.495 ug/L
 RT: 7.84 min Scan# 2020
 Delta R.T. 0.00 min
 Lab File: VU036323.D
 Acq: 23 Dec 2019 12:15

Tgt Ion: 43 Resp: 668776
 Ion Ratio Lower Upper
 43 100
 58 41.8 33.3 49.9
 100 16.6 13.7 20.5





#42

Toluene

Concen: 4.870 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

Instrument :

MSVOA_U

ClientSampleId :

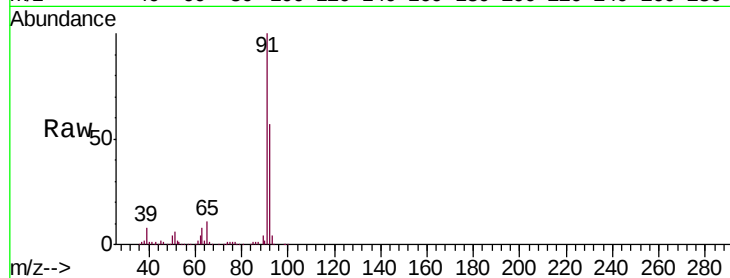
VSTD00526

Tgt Ion: 91 Resp: 489004

Ion Ratio Lower Upper

91 100

92 57.3 41.2 76.6



Abundance Ion 91.15 (90.85 to 91.85): VU036306.D (-2056) (-)

Ion 92.15 (91.85 to 92.85): VU036323.D (-1979) (-)

8.00

300000

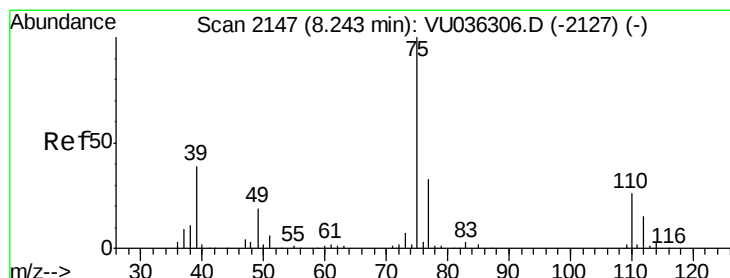
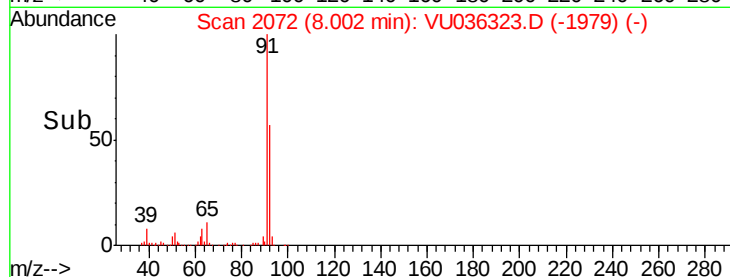
200000

100000

0

7.90 8.00 8.10

Time-->



#44

trans-1,3-Dichloropropene

Concen: 5.077 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. -0.00 min

Lab File: VU036323.D

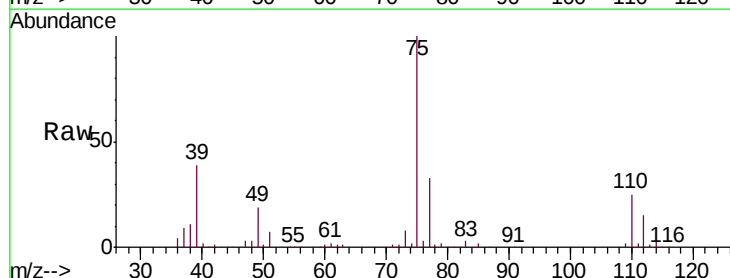
Acq: 23 Dec 2019 12:15

Tgt Ion: 75 Resp: 138871

Ion Ratio Lower Upper

75 100

77 32.7 22.1 41.1



Abundance Ion 75.05 (74.75 to 75.75): VU036306.D (-2127) (-)

Ion 77.05 (76.75 to 77.75): VU036323.D (-2054) (-)

8.24

80000

60000

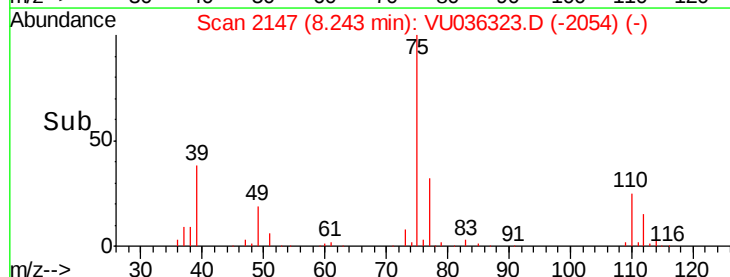
40000

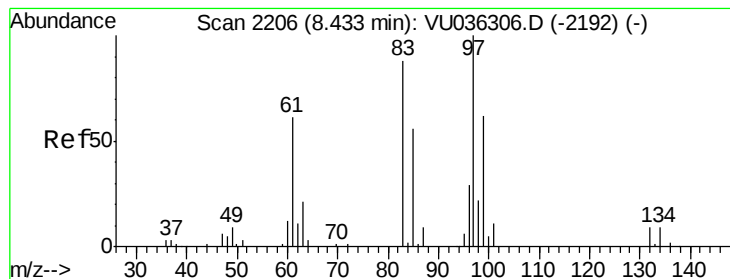
20000

0

8.15 8.20 8.25 8.30 8.35

Time-->





#45

1,1,2-Trichloroethane

Concen: 4.820 ug/L

RT: 8.43 min Scan# 2206

Delta R.T. -0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD00526

Tgt Ion: 97 Resp: 86320

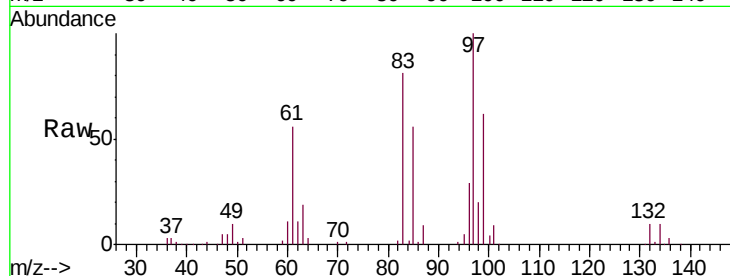
Ion Ratio Lower Upper

97 100

99 62.3 46.1 85.5

83 81.2 65.9 122.3

85 55.9 43.1 80.1



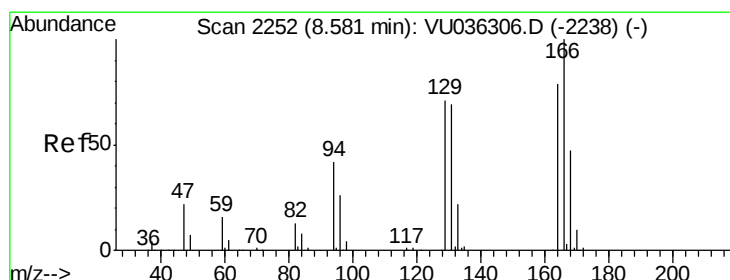
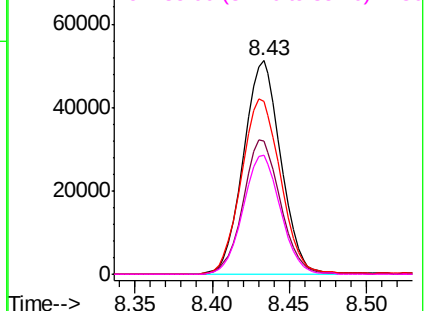
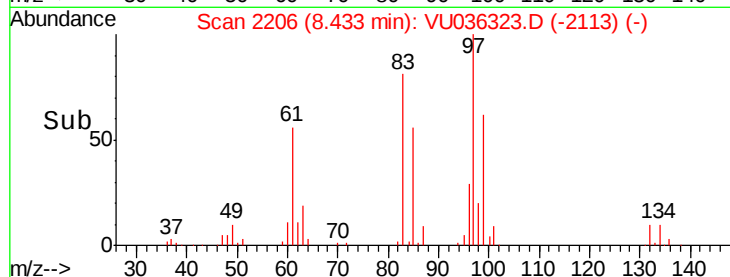
Abundance

Ion 96.95 (96.65 to 97.65): VU036323.D (-2113) (-)

Ion 99.05 (98.75 to 99.75): VU036323.D (-2113) (-)

Ion 82.95 (82.65 to 83.65): VU036323.D (-2113) (-)

Ion 85.00 (84.70 to 85.70): VU036323.D (-2113) (-)



#47

Tetrachloroethene

Concen: 4.697 ug/L

RT: 8.58 min Scan# 2252

Delta R.T. 0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

Tgt Ion: 164 Resp: 102448

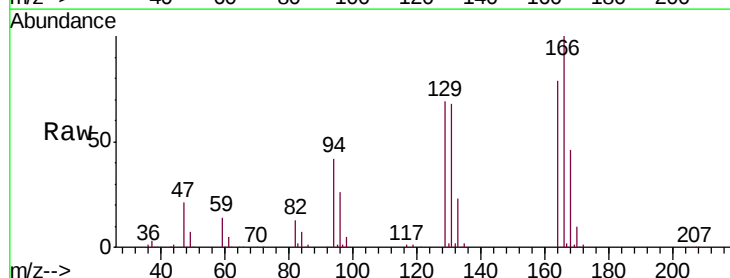
Ion Ratio Lower Upper

164 100

129 87.2 64.2 119.2

131 85.6 66.6 123.8

166 125.9 93.1 172.9



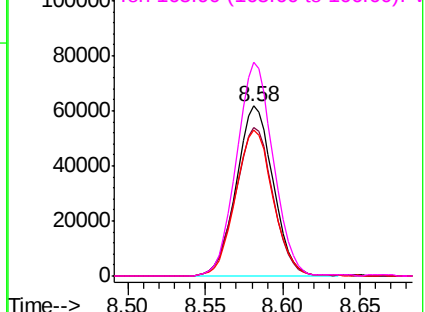
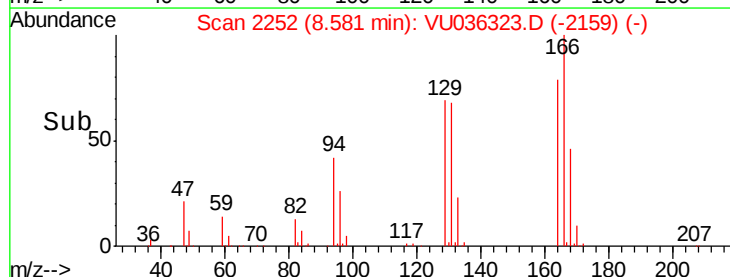
Abundance

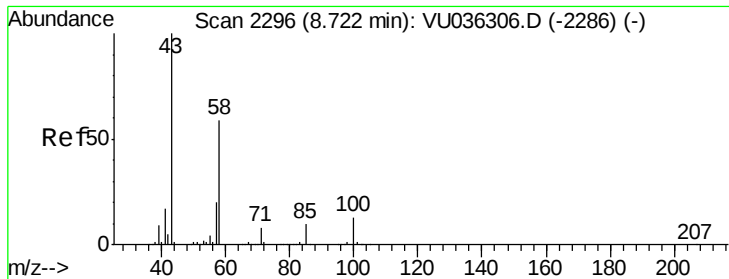
Ion 163.90 (163.60 to 164.60): VU036323.D (-2159) (-)

Ion 128.95 (128.65 to 129.65): VU036323.D (-2159) (-)

Ion 130.95 (130.65 to 131.65): VU036323.D (-2159) (-)

Ion 165.90 (165.60 to 166.60): VU036323.D (-2159) (-)

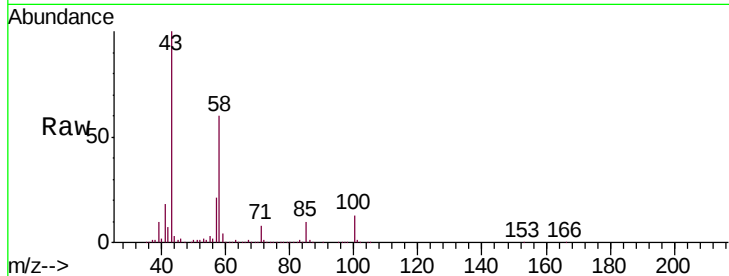




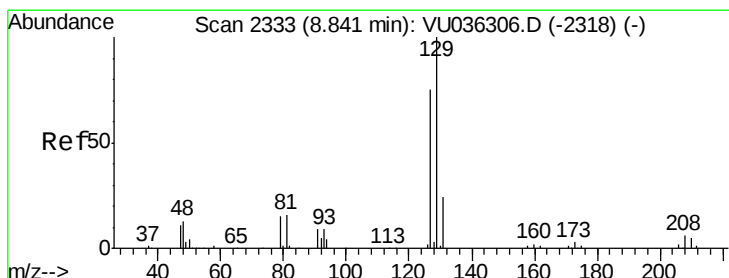
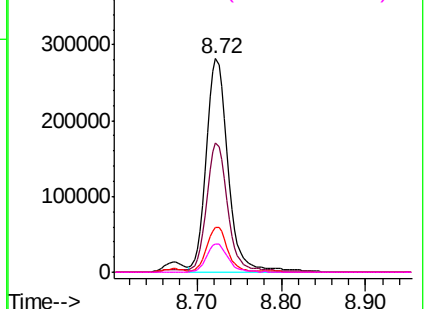
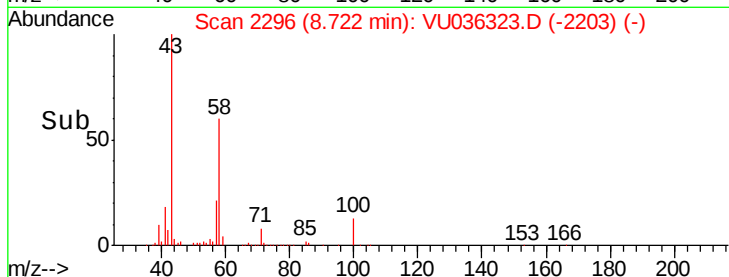
#48
2-Hexanone
Concen: 54.529 ug/L
RT: 8.72 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU036323.D
Acq: 23 Dec 2019 12:15

Instrument :
MSVOA_U
ClientSampleId :
VSTD00526

Tgt Ion:	43	Resp:	508752
Ion	Ratio	Lower	Upper
43	100		
58	57.5	46.2	69.2
57	20.2	16.2	24.4
100	13.0	10.2	15.4

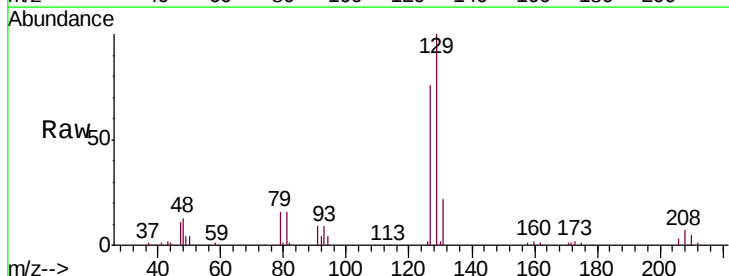


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

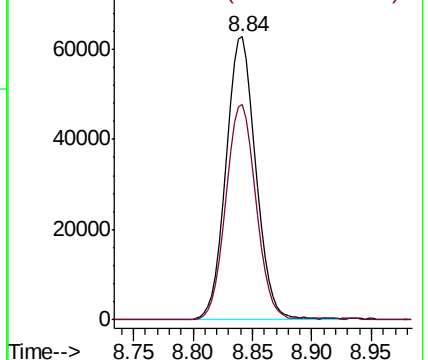
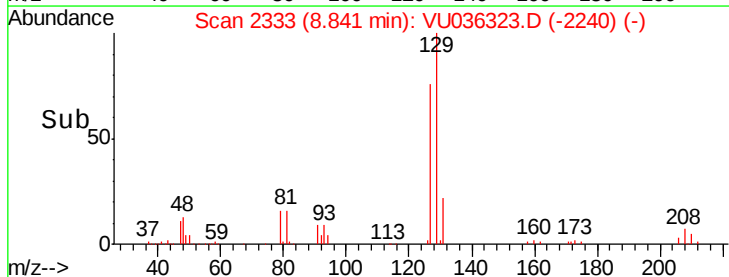


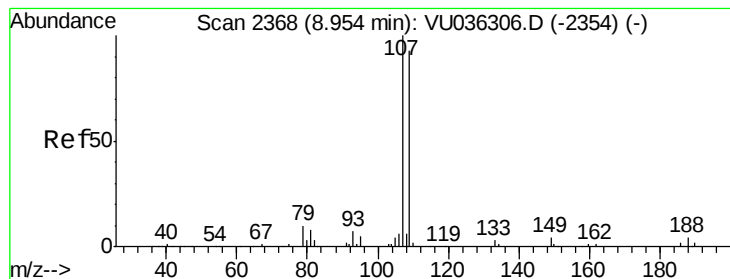
#49
Dibromochloromethane
Concen: 4.941 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. 0.00 min
Lab File: VU036323.D
Acq: 23 Dec 2019 12:15

Tgt Ion:	129	Resp:	109368
Ion	Ratio	Lower	Upper
129	100		
127	76.0	52.6	97.6



Abundance Ion 128.95 (128.65 to 129.65): V
Ion 126.90 (126.60 to 127.60): V





#50

1,2-Dibromoethane

Concen: 4.766 ug/L

RT: 8.95 min Scan# 2368

Delta R.T. 0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD00526

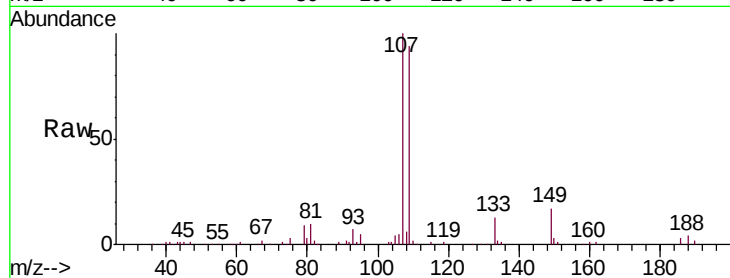
Tgt Ion:107 Resp: 81412

Ion Ratio Lower Upper

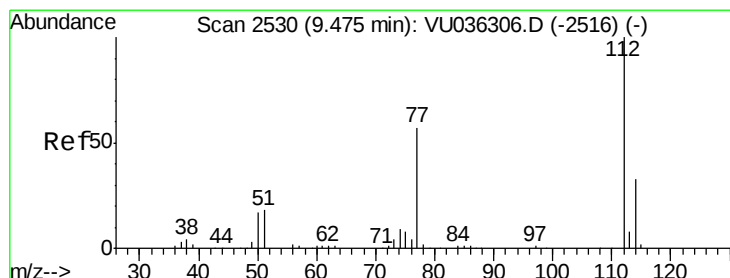
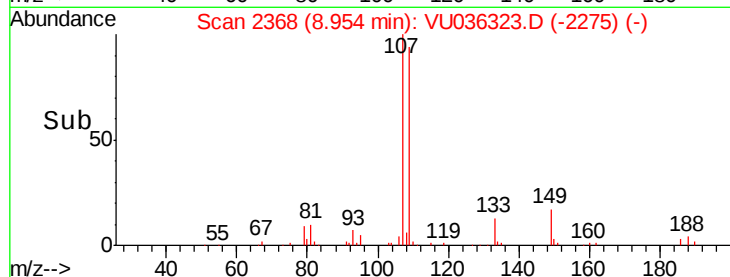
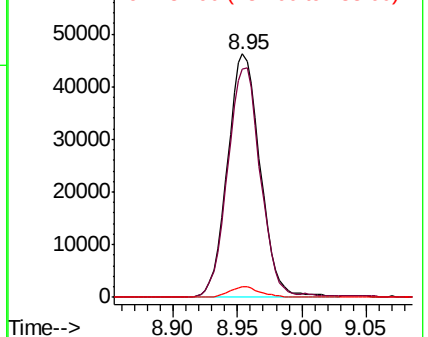
107 100

109 93.9 67.5 125.4

188 4.4 3.1 4.7



Abundance Ion 106.95 (106.65 to 107.65): V
Ion 109.00 (108.70 to 109.70): V
Ion 187.90 (187.60 to 188.60): V



#51

Chlorobenzene

Concen: 4.662 ug/L

RT: 9.47 min Scan# 2530

Delta R.T. 0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

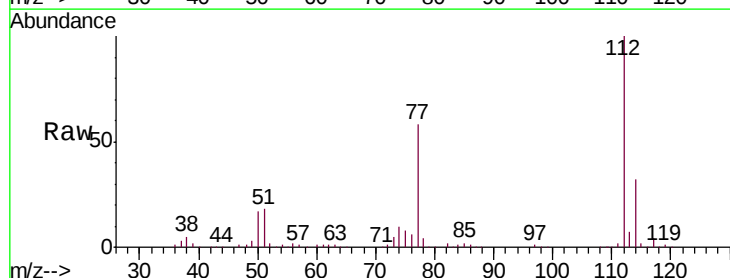
Tgt Ion:112 Resp: 309126

Ion Ratio Lower Upper

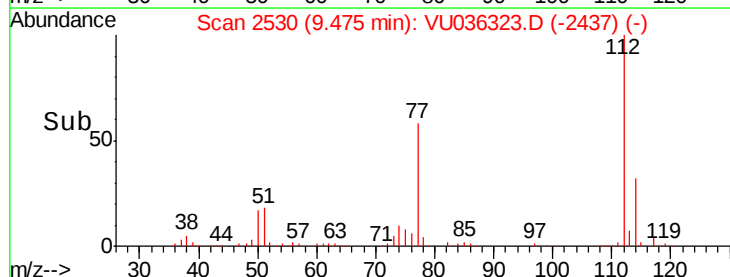
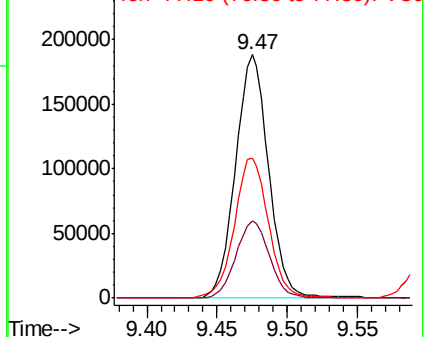
112 100

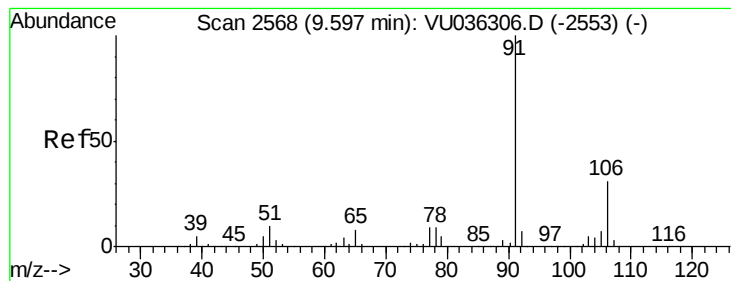
114 31.6 23.2 43.2

77 57.7 46.5 69.7



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 114.05 (113.75 to 114.75): V
Ion 77.10 (76.80 to 77.80): V





#52

Ethylbenzene

Concen: 4.827 ug/L

RT: 9.60 min Scan# 2568

Delta R.T. 0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

Instrument :

MSVOA_U

ClientSampleId :

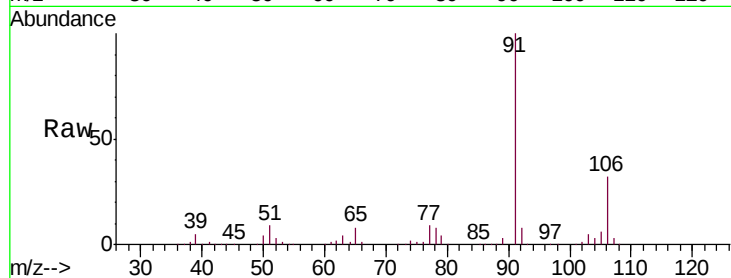
VSTD00526

Tgt Ion: 91 Resp: 486870

Ion Ratio Lower Upper

91 100

106 32.2 22.0 41.0



Abundance Ion 91.15 (90.85 to 91.85): VU036323.D (-2553) (-)

Ion 106.15 (105.85 to 106.85): VU036323.D (-2475) (-)

9.60

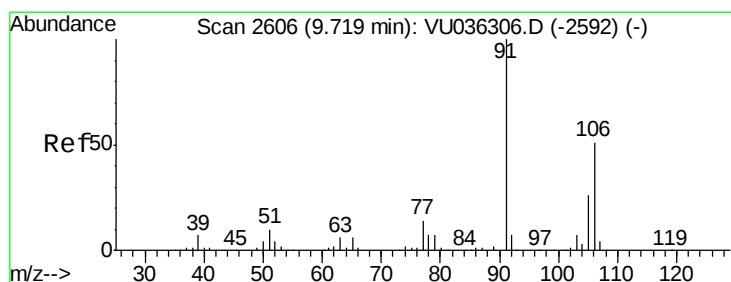
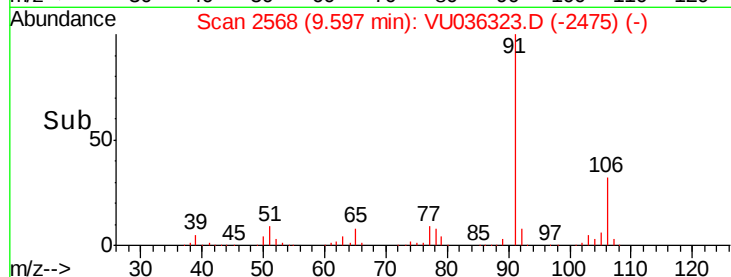
300000

200000

100000

0

Time-->



#53

m,p-Xylene

Concen: 4.980 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VU036323.D

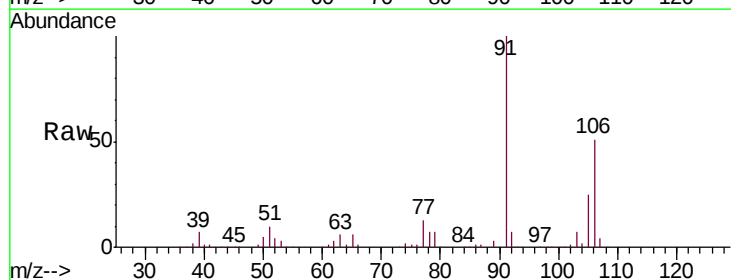
Acq: 23 Dec 2019 12:15

Tgt Ion: 106 Resp: 193538

Ion Ratio Lower Upper

106 100

91 196.5 138.7 257.7



Abundance Ion 106.15 (105.85 to 106.85): VU036323.D (-2513) (-)

Ion 91.15 (90.85 to 91.85): VU036323.D (-2592) (-)

9.72

250000

200000

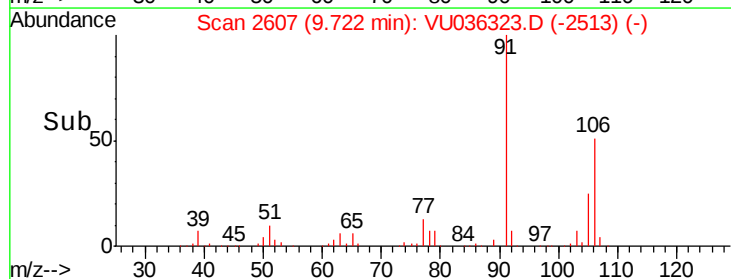
150000

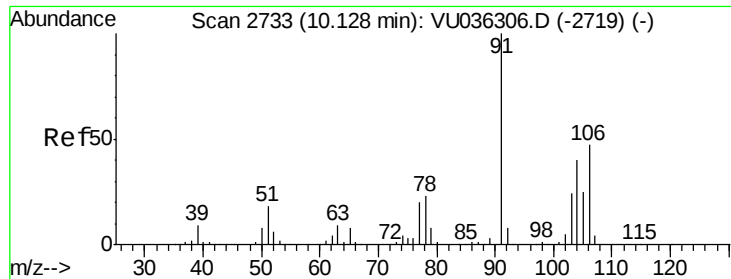
100000

50000

0

Time-->

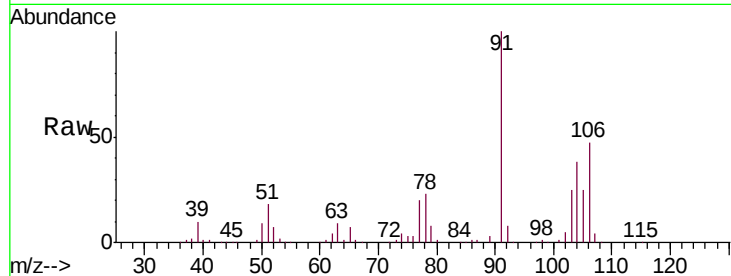




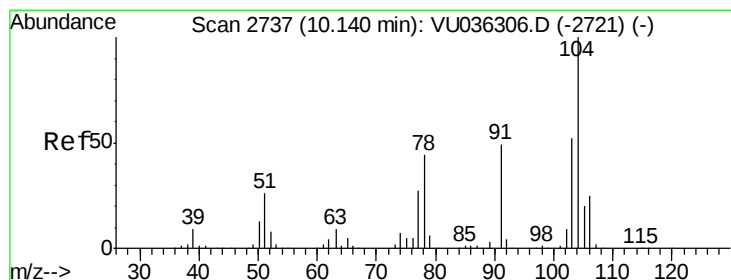
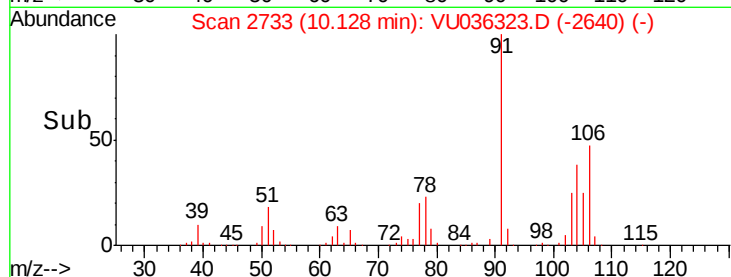
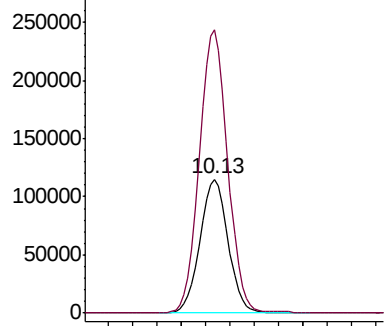
#54
o-Xylene
Concen: 4.963 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU036323.D
Acq: 23 Dec 2019 12:15

Instrument :
MSVOA_U
ClientSampleId :
VSTD00526

Tgt Ion:106 Resp: 186015
Ion Ratio Lower Upper
106 100
91 211.8 152.8 283.8

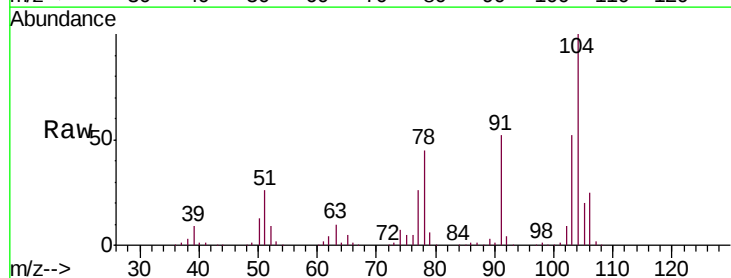


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

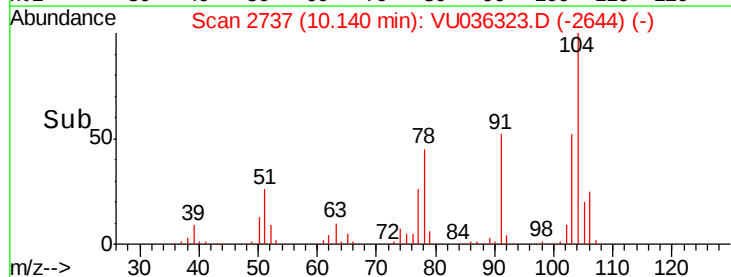
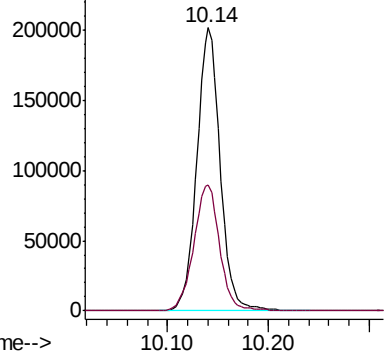


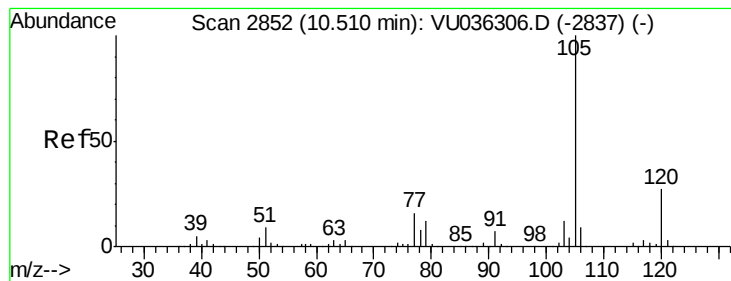
#55
Styrene
Concen: 4.917 ug/L
RT: 10.14 min Scan# 2737
Delta R.T. 0.00 min
Lab File: VU036323.D
Acq: 23 Dec 2019 12:15

Tgt Ion:104 Resp: 326130
Ion Ratio Lower Upper
104 100
78 44.7 32.1 59.5



Abundance Ion 104.10 (103.80 to 104.80): V
Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.062 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. 0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD00526

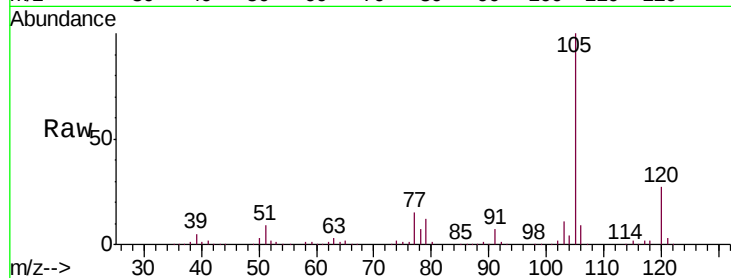
Tgt Ion: 105 Resp: 487221

Ion Ratio Lower Upper

105 100

120 26.4 21.0 31.6

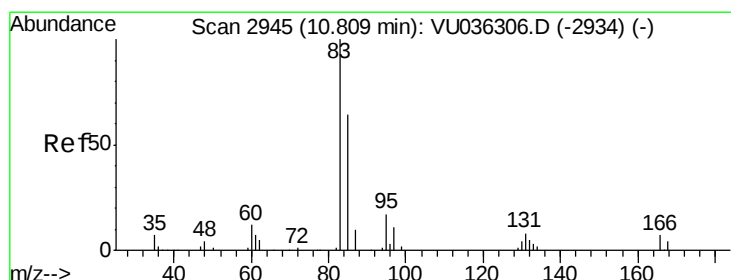
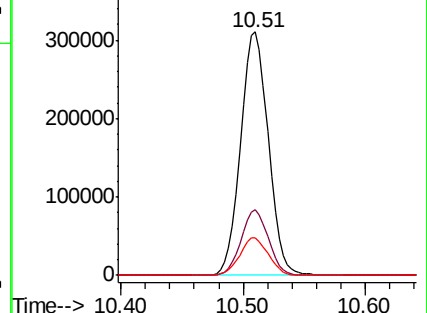
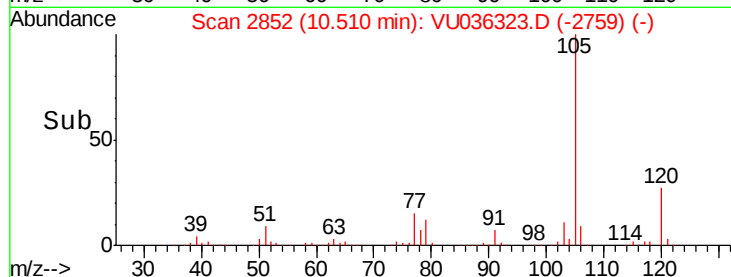
77 15.8 12.5 18.7



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 4.844 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. 0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

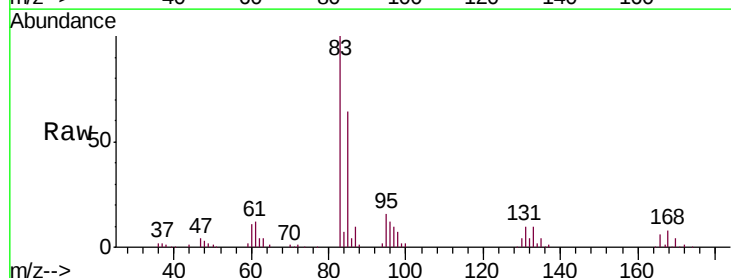
Tgt Ion: 83 Resp: 110438

Ion Ratio Lower Upper

83 100

85 63.8 45.6 84.8

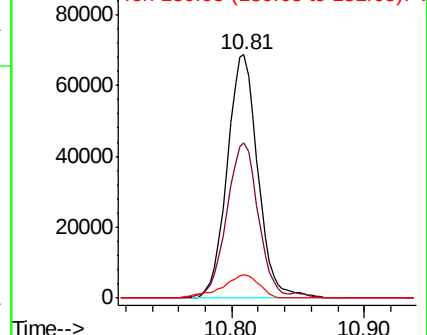
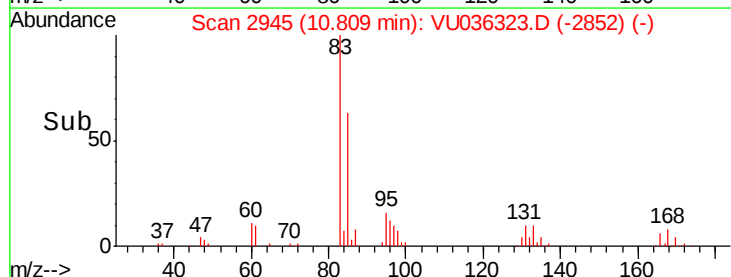
131 9.6 8.5 12.7

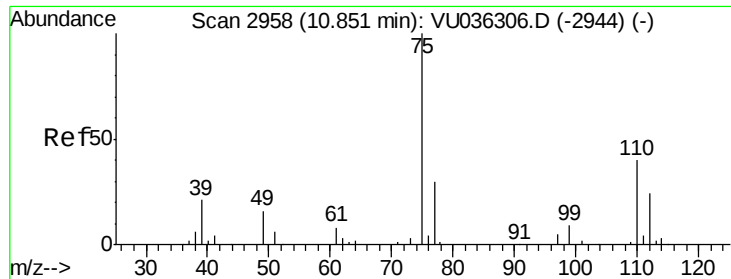


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V

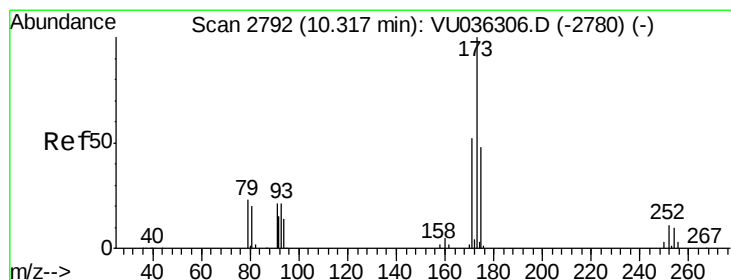
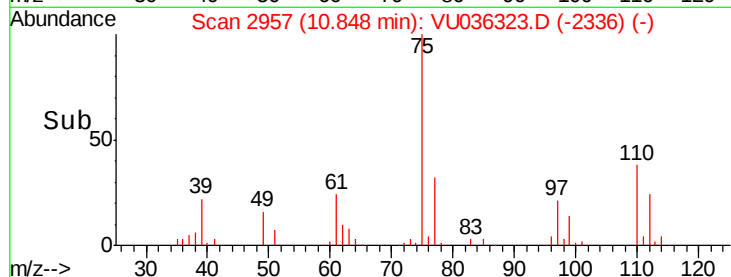
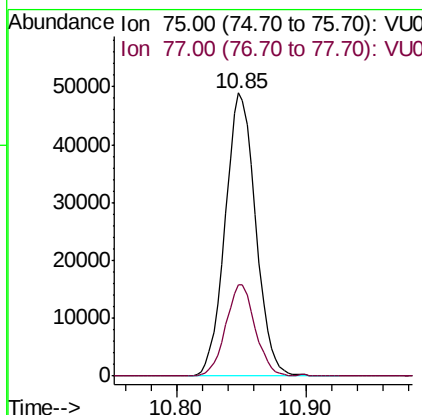
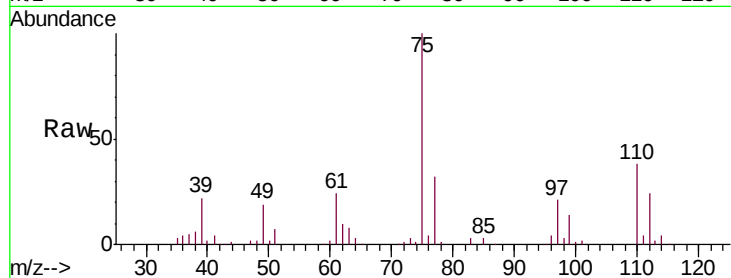




#59
 1,2,3-Trichloropropane
 Concen: 5.046 ug/L
 RT: 10.85 min Scan# 2957
 Delta R.T. -0.00 min
 Lab File: VU036323.D
 Acq: 23 Dec 2019 12:15

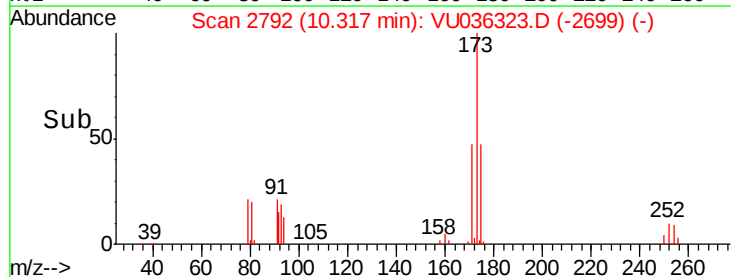
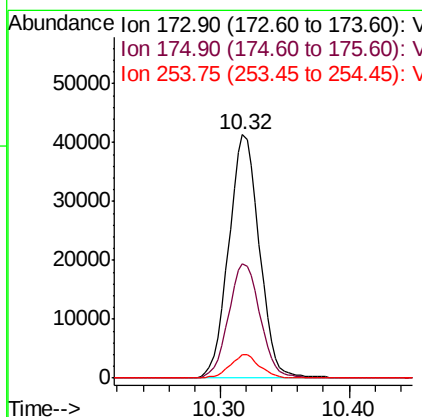
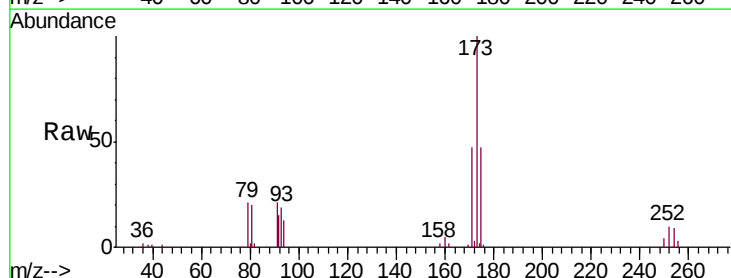
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00526

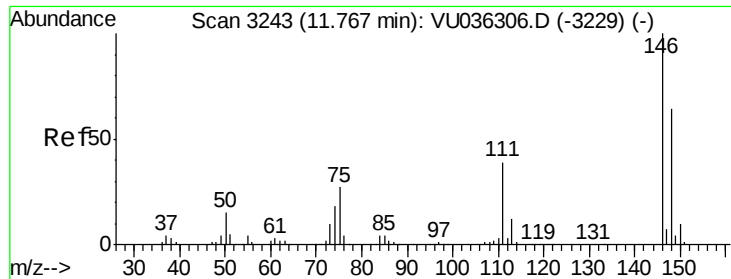
Tgt Ion: 75 Resp: 80164
 Ion Ratio Lower Upper
 75 100
 77 30.6 27.2 40.8



#61
 Bromoform
 Concen: 4.641 ug/L
 RT: 10.32 min Scan# 2792
 Delta R.T. 0.00 min
 Lab File: VU036323.D
 Acq: 23 Dec 2019 12:15

Tgt Ion: 173 Resp: 68158
 Ion Ratio Lower Upper
 173 100
 175 48.6 39.2 58.8
 254 9.5 7.8 11.6





#62

1,3-Dichlorobenzene

Concen: 4.692 ug/L

RT: 11.77 min Scan# 3243

Delta R.T. 0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD00526

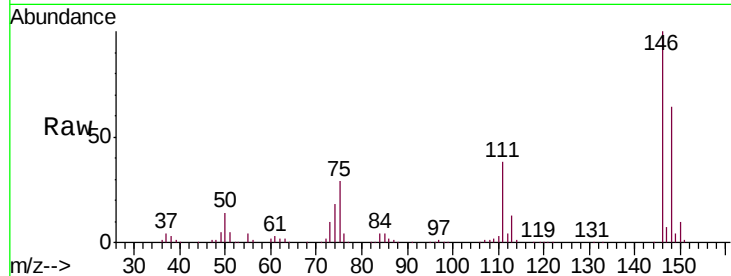
Tgt Ion:146 Resp: 267778

Ion Ratio Lower Upper

146 100

111 37.9 26.3 48.9

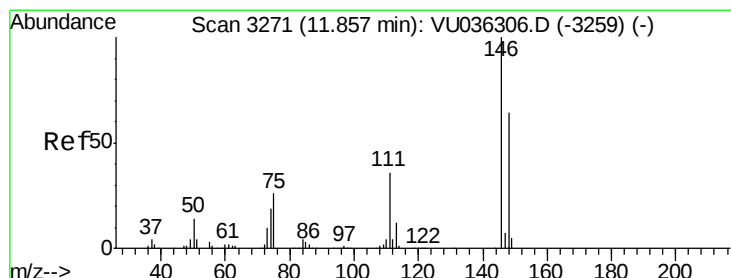
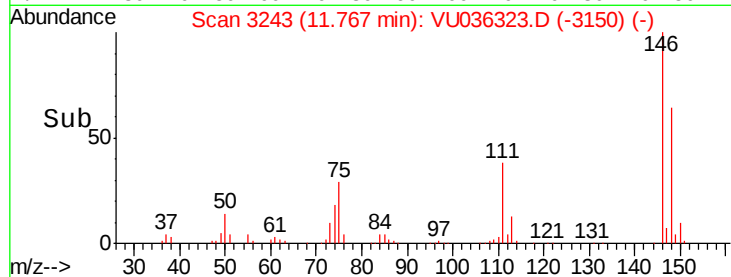
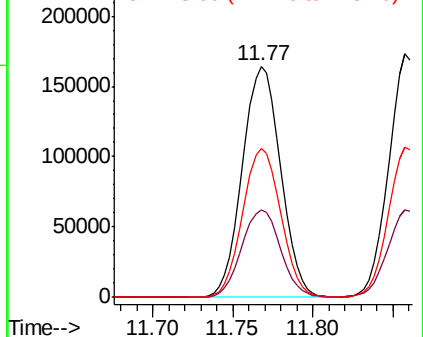
148 64.3 45.1 83.9



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 4.763 ug/L

RT: 11.86 min Scan# 3271

Delta R.T. -0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

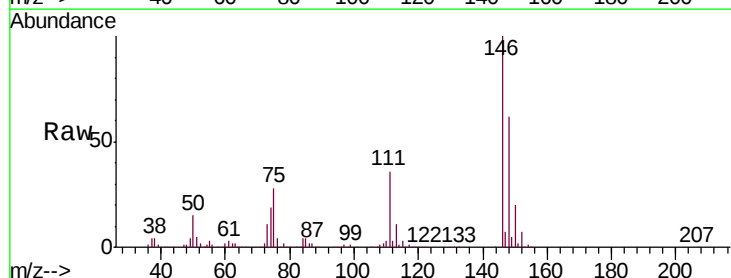
Tgt Ion:146 Resp: 269617

Ion Ratio Lower Upper

146 100

111 36.1 25.8 48.0

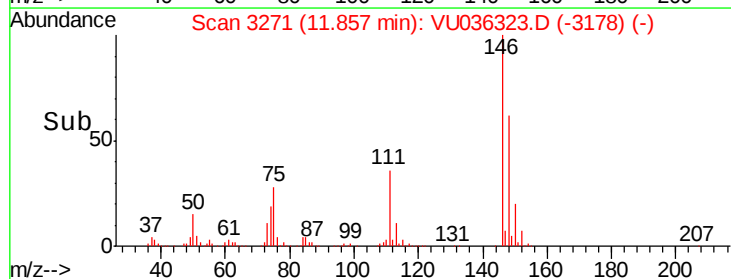
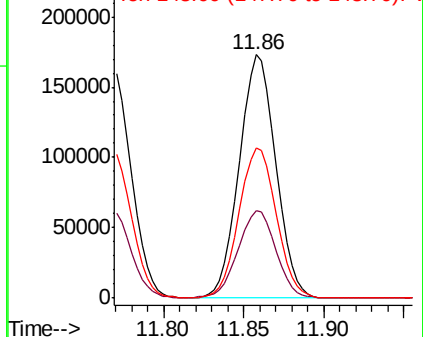
148 61.6 44.7 82.9

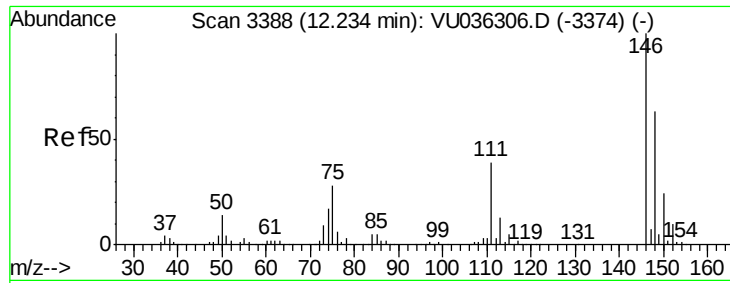


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

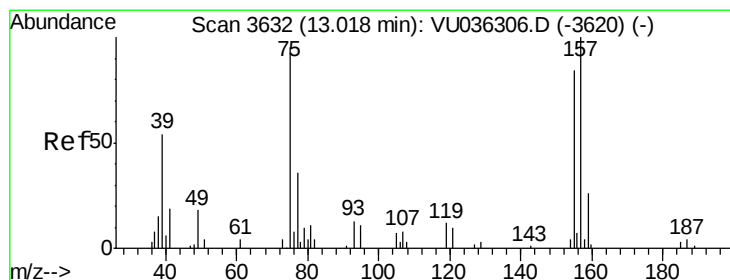
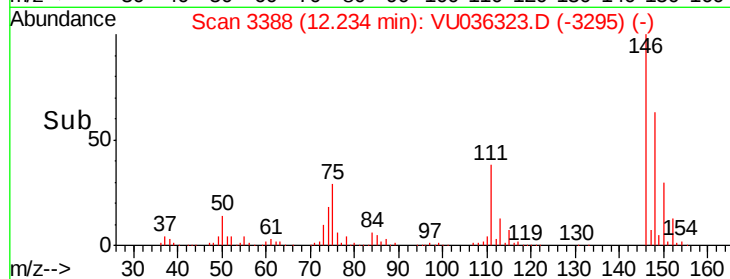
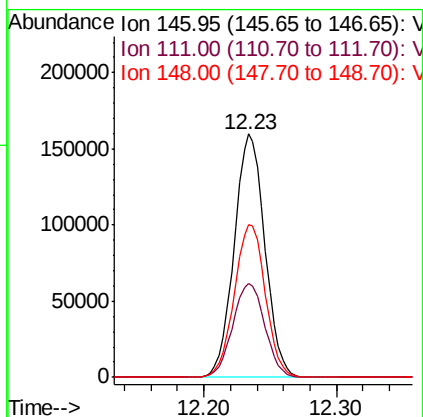
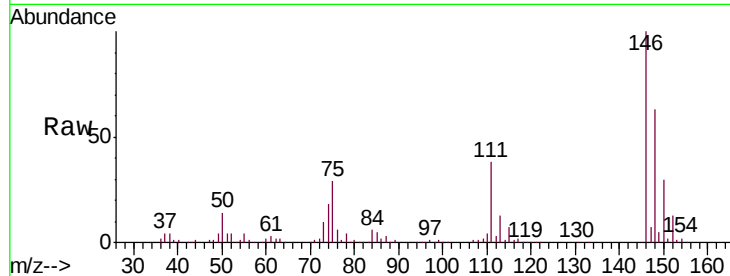




#65
 1,2-Dichlorobenzene
 Concen: 4.708 ug/L
 RT: 12.23 min Scan# 3388
 Delta R.T. 0.00 min
 Lab File: VU036323.D
 Acq: 23 Dec 2019 12:15

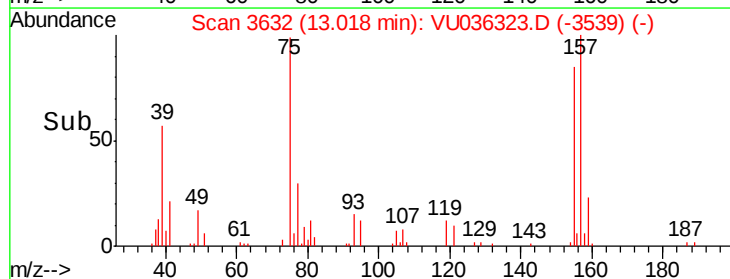
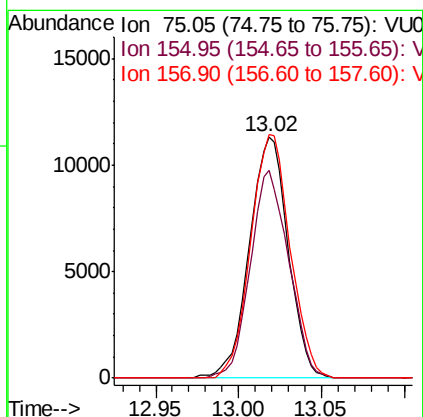
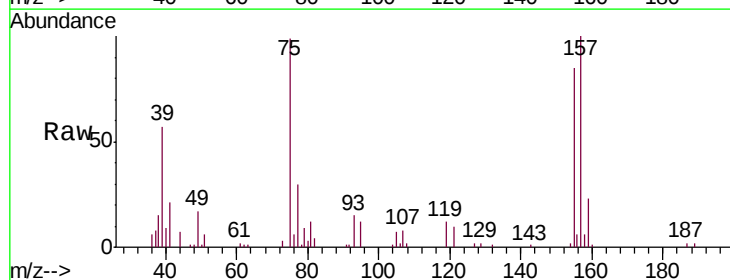
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00526

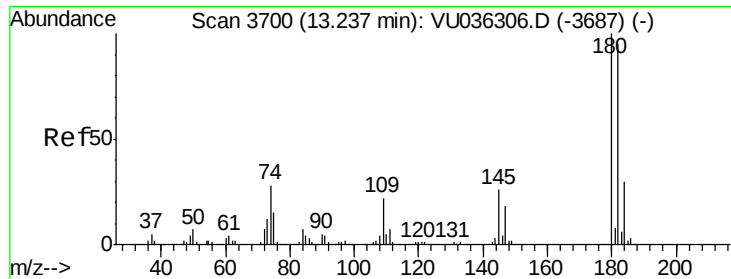
Tgt Ion: 146 Resp: 255977
 Ion Ratio Lower Upper
 146 100
 111 38.4 32.5 48.7
 148 62.9 49.2 73.8



#66
 1,2-Dibromo-3-chloropropane
 Concen: 5.089 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. 0.00 min
 Lab File: VU036323.D
 Acq: 23 Dec 2019 12:15

Tgt Ion: 75 Resp: 18380
 Ion Ratio Lower Upper
 75 100
 155 85.9 61.9 92.9
 157 100.8 84.9 127.3

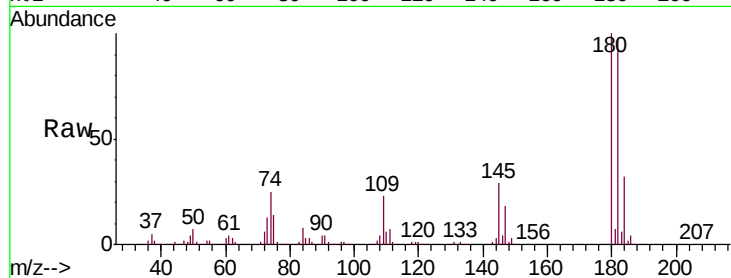




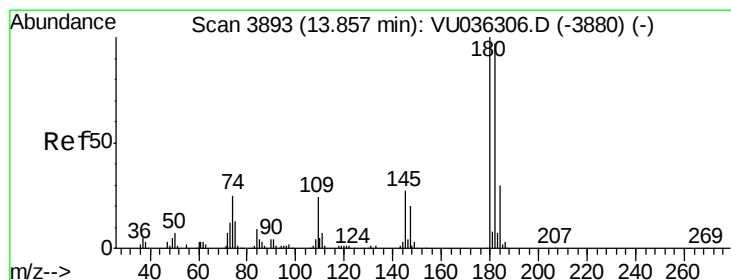
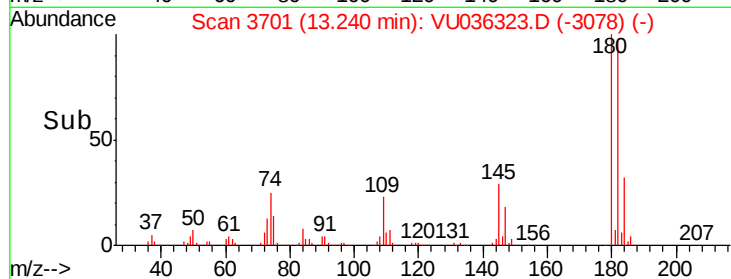
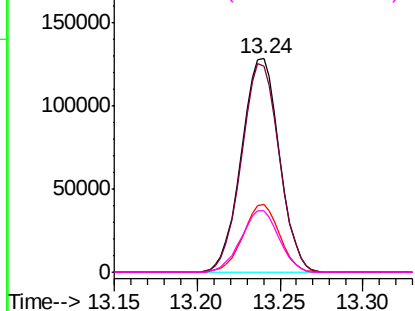
#67
 1,3,5-Trichlorobenzene
 Concen: 4.777 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VU036323.D
 Acq: 23 Dec 2019 12:15

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00526

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.0	76.9	115.3
184	30.4	24.2	36.4
145	28.8	22.0	33.0

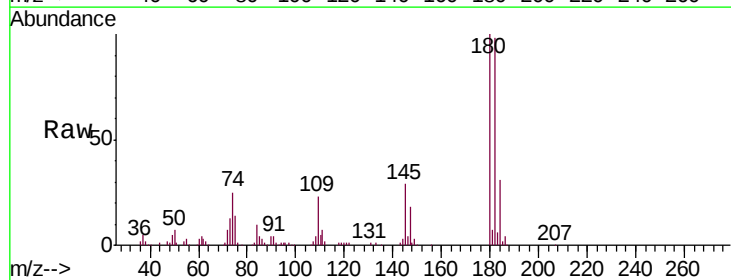


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

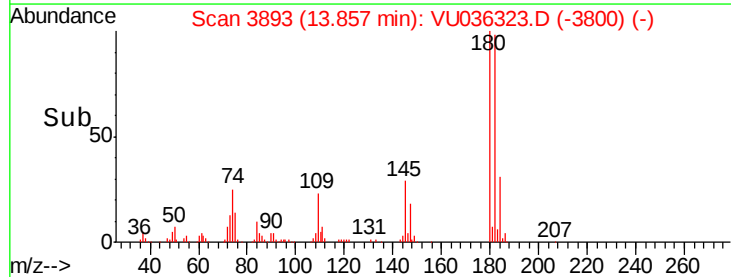
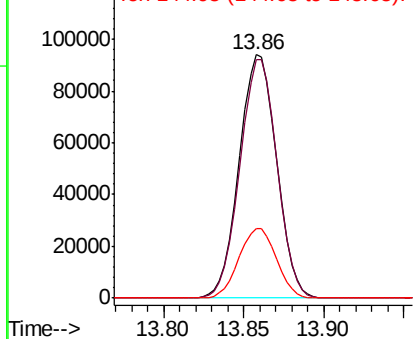


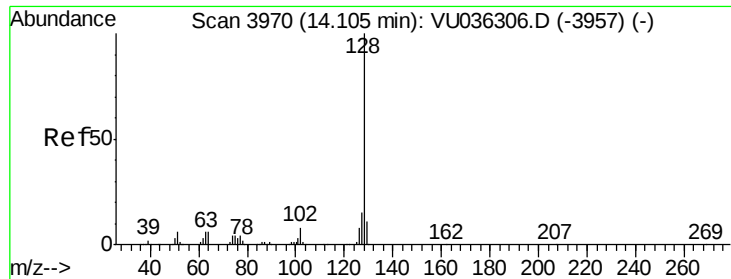
#68
 1,2,4-trichlorobenzene
 Concen: 5.334 ug/L
 RT: 13.86 min Scan# 3893
 Delta R.T. 0.00 min
 Lab File: VU036323.D
 Acq: 23 Dec 2019 12:15

Tgt Ion	Ratio	Lower	Upper
180	100		
182	97.2	75.3	112.9
145	28.7	22.7	34.1



Abundance Ion 179.90 (179.60 to 180.60): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 5.834 ug/L

RT: 14.10 min Scan# 3970

Delta R.T. -0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

Instrument :

MSVOA_U

ClientSampleId :

VSTD00526

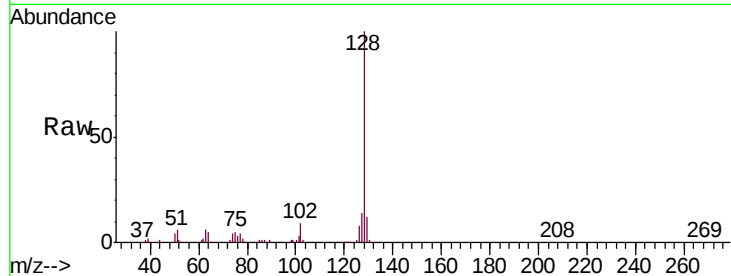
Tgt Ion:128 Resp: 208502

Ion Ratio Lower Upper

128 100

129 11.1 8.4 12.6

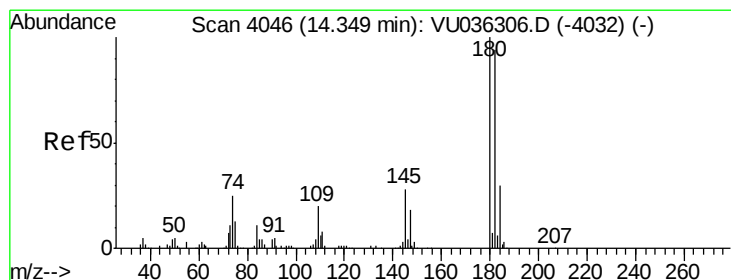
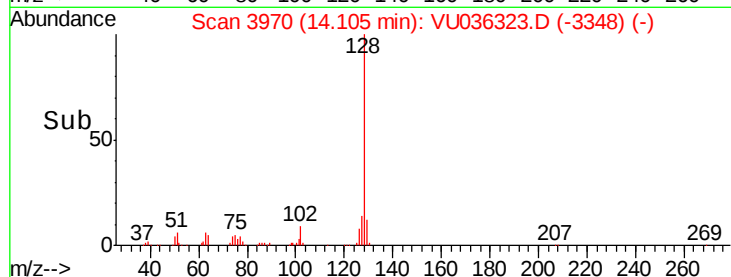
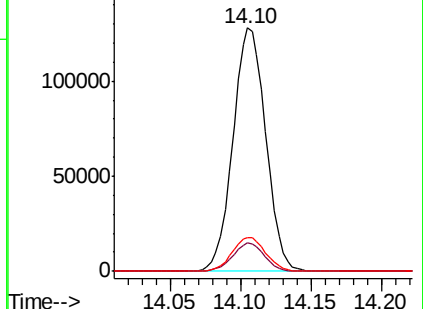
127 14.1 11.5 17.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 5.445 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. 0.00 min

Lab File: VU036323.D

Acq: 23 Dec 2019 12:15

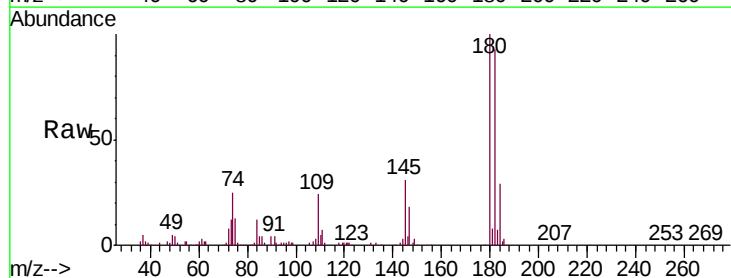
Tgt Ion:180 Resp: 147940

Ion Ratio Lower Upper

180 100

182 94.9 77.0 115.6

145 30.9 24.9 37.3



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

