

Data File : VU036188.D
Acq On : 13 Dec 2019 08:06
Operator : JC/MD
Sample : VSTDCCC005EC
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 46 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Quant Time: Dec 13 08:26:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR121219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Fri Dec 13 04:38:02 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	6.29	114	264534	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.45	117	290968	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.84	152	137620	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.62	65	122413	4.56	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	91.20%
7) Chloroethane-d5	1.93	69	111813	4.74	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	94.80%
11) 1,1-Dichloroethene-d2	2.60	63	167828	4.74	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	94.80%
20) 2-Butanone-d5	4.68	46	199915	46.42	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	92.84%
24) Chloroform-d	5.11	84	178082	4.57	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	91.40%
26) 1,2-Dichloroethane-d4	5.75	65	90742	4.60	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	92.00%
32) Benzene-d6	5.77	84	352897	4.54	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	90.80%
36) 1,2-Dichloropropane-d6	6.73	67	104167	4.30	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	86.00%
41) Toluene-d8	7.93	98	330083	4.59	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	91.80%
43) trans-1,3-Dichloropropene-	8.21	79	41546	4.11	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	82.20%
46) 2-Hexanone-d5	8.67	63	162339	43.65	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	87.30%
57) 1,1,2,2-Tetrachloroethane-	10.78	84	87947	4.07	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	81.40%
64) 1,2-Dichlorobenzene-d4	12.22	152	115060	4.40	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	88.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.39	85	120299	4.103	ug/L 100
3) Chloromethane	1.54	50	140130	3.702	ug/L 99
5) Vinyl chloride	1.62	62	147848	4.185	ug/L 99
6) Bromomethane	1.87	94	72261	3.327	ug/L 100
8) Chloroethane	1.95	64	92793	4.267	ug/L 99
9) Trichlorofluoromethane	2.16	101	204417	4.746	ug/L 98
10) 1,1,2-Trichloro-1,2,2-trif	2.61	101	95978	4.496	ug/L 97
12) 1,1-Dichloroethene	2.61	96	88462	4.438	ug/L 83
13) Acetone	2.66	43	156527	41.777	ug/L 97
14) Carbon disulfide	2.83	76	272682	4.116	ug/L 100
15) Methyl Acetate	2.99	43	33090	4.142	ug/L 97
16) Methylene chloride	3.08	84	131183	4.706	ug/L 98
17) Methyl tert-butyl Ether	3.41	73	191250	4.614	ug/L 98
18) trans-1,2-Dichloroethene	3.39	96	91378	4.418	ug/L 99
19) 1,1-Dichloroethane	3.92	63	177311	4.661	ug/L 98
21) 2-Butanone	4.76	43	228854	45.818	ug/L 99
22) cis-1,2-Dichloroethene	4.72	96	99486	4.673	ug/L 99

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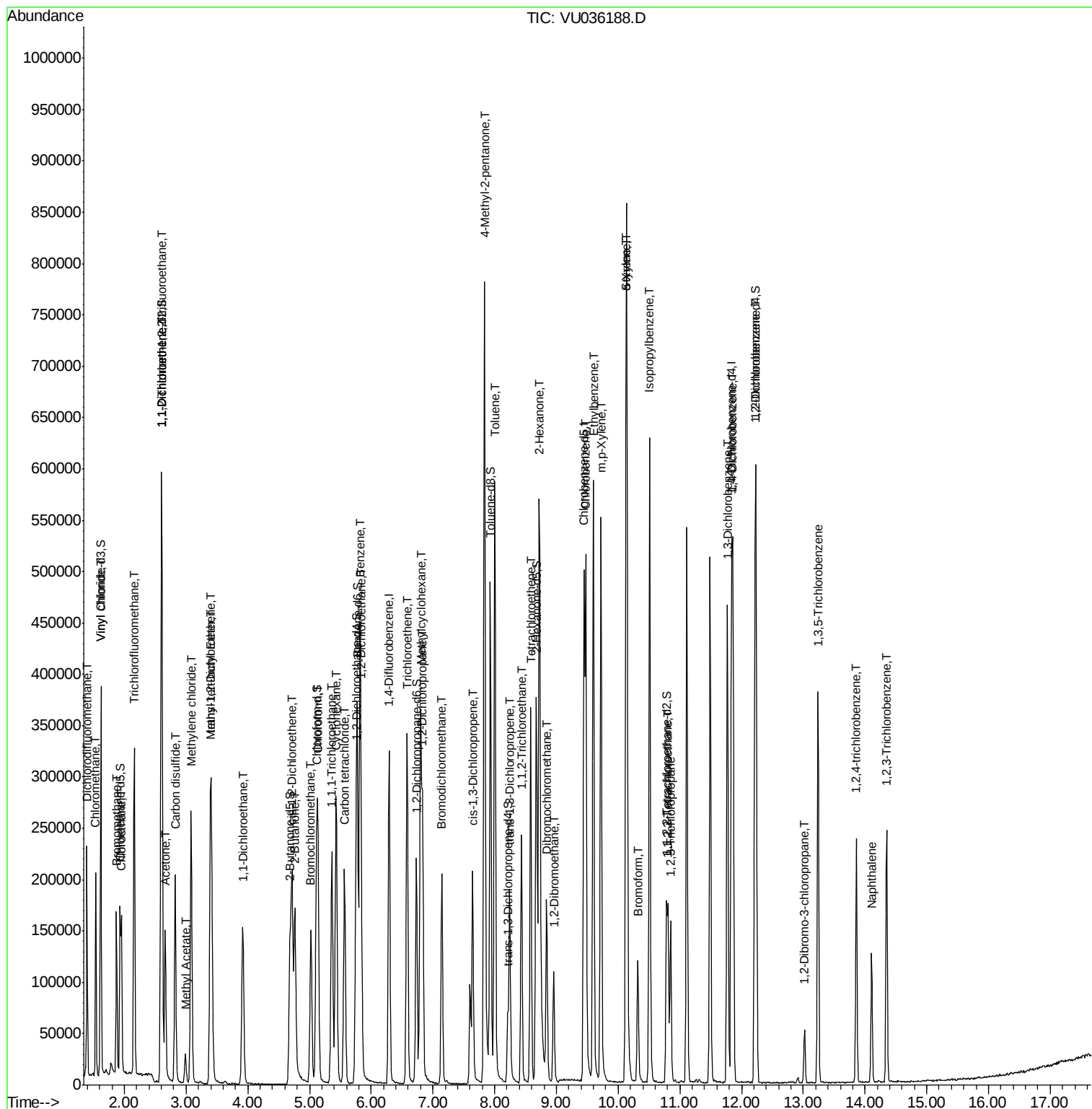
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	5.02	128	50701	4.785	ug/L	97
25) Chloroform	5.14	83	199255	4.955	ug/L	99
27) 1,2-Dichloroethane	5.84	62	114758	4.868	ug/L	97
29) 1,1,1-Trichloroethane	5.36	97	160007	4.485	ug/L	99
30) Cyclohexane	5.43	56	126010	4.149	ug/L	99
31) Carbon tetrachloride	5.57	117	144500	4.526	ug/L	99
33) Benzene	5.82	78	404489	4.519	ug/L	100
34) Trichloroethene	6.58	95	117674	5.141	ug/L	96
35) Methylcyclohexane	6.80	83	128675	3.944	ug/L	96
37) 1,2-Dichloropropane	6.83	63	101429	4.393	ug/L	100
38) Bromodichloromethane	7.14	83	135353	4.593	ug/L	99
39) cis-1,3-Dichloropropene	7.65	75	130641	4.281	ug/L	97
40) 4-Methyl-2-pentanone	7.83	43	526876	45.207	ug/L	98
42) Toluene	8.00	91	442644	4.670	ug/L	98
44) trans-1,3-Dichloropropene	8.24	75	109274	4.247	ug/L	99
45) 1,1,2-Trichloroethane	8.43	97	77657	4.560	ug/L	95
47) Tetrachloroethene	8.58	164	87316	4.354	ug/L	98
48) 2-Hexanone	8.72	43	403441	47.189	ug/L	98
49) Dibromochloromethane	8.84	129	93048	4.411	ug/L	97
50) 1,2-Dibromoethane	8.96	107	72576	4.547	ug/L	95
51) Chlorobenzene	9.48	112	279103	4.522	ug/L	100
52) Ethylbenzene	9.60	91	418737	4.541	ug/L	99
53) m,p-Xylene	9.72	106	167542	4.626	ug/L	95
54) o-Xylene	10.13	106	154733	4.472	ug/L	96
55) Styrene	10.14	104	287064	4.682	ug/L	100
56) Isopropylbenzene	10.51	105	401209	4.538	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.81	83	82284	3.843	ug/L	98
59) 1,2,3-Trichloropropane	10.85	75	70249	4.615	ug/L	99
61) Bromoform	10.32	173	57100	4.357	ug/L	100
62) 1,3-Dichlorobenzene	11.77	146	209042	4.604	ug/L	98
63) 1,4-Dichlorobenzene	11.86	146	206835	4.662	ug/L	98
65) 1,2-Dichlorobenzene	12.24	146	203940	4.684	ug/L	99
66) 1,2-Dibromo-3-chloropropan	13.02	75	12665	4.556	ug/L	98
67) 1,3,5-Trichlorobenzene	13.24	180	124051	4.216	ug/L	99
68) 1,2,4-trichlorobenzene	13.86	180	75678	4.910	ug/L	97
69) Naphthalene	14.11	128	98844	6.232	ug/L	100
70) 1,2,3-Trichlorobenzene	14.35	180	79621	5.544	ug/L	99

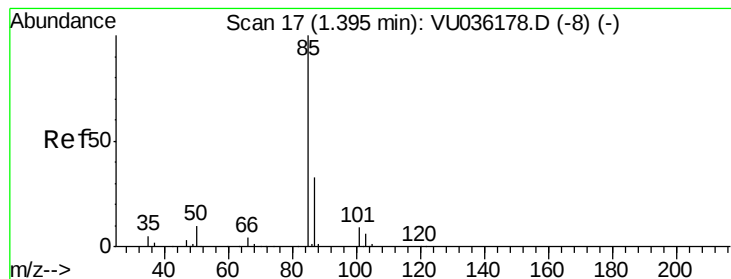
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 4.103 ug/L

RT: 1.39 min Scan# 17

Delta R.T. -0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

Instrument :

MSVOA_U

ClientSampleId :

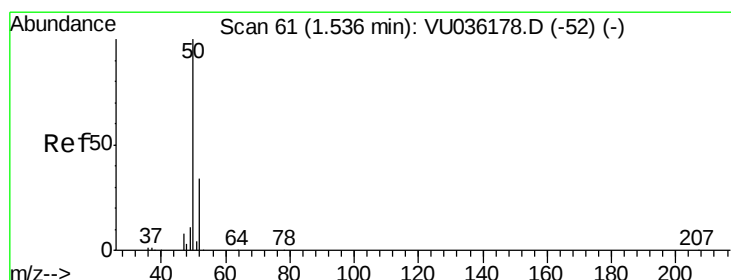
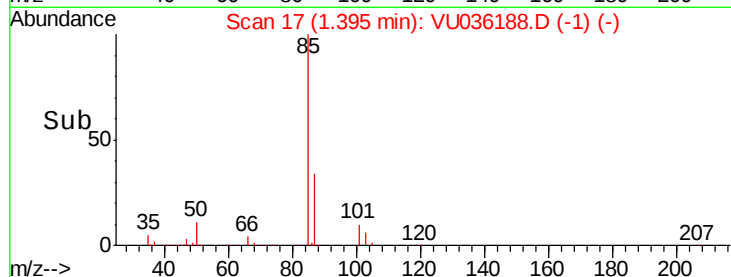
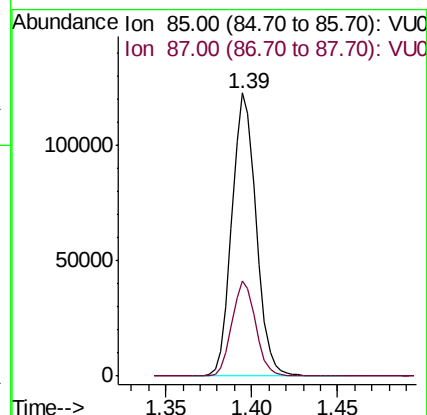
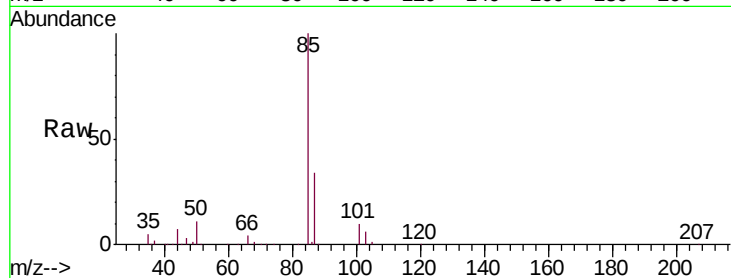
VSTD00512

Tgt Ion: 85 Resp: 120299

Ion Ratio Lower Upper

85 100

87 32.8 26.4 39.6



#3

Chloromethane

Concen: 3.702 ug/L

RT: 1.54 min Scan# 61

Delta R.T. -0.00 min

Lab File: VU036188.D

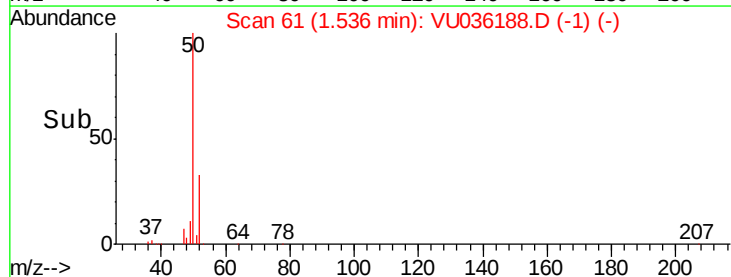
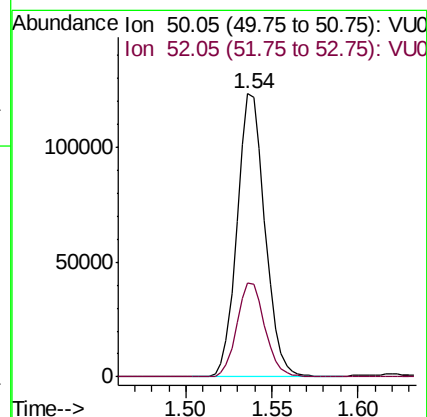
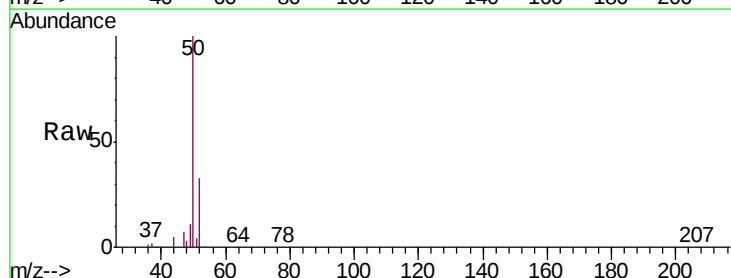
Acq: 13 Dec 2019 08:06

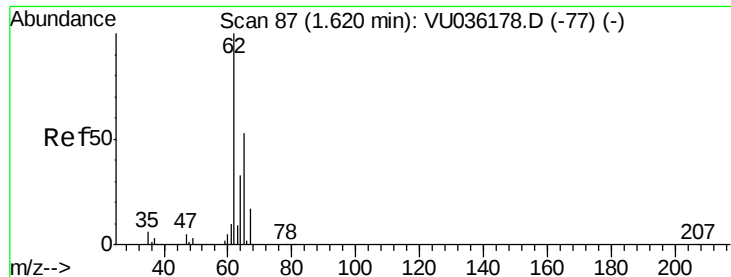
Tgt Ion: 50 Resp: 140130

Ion Ratio Lower Upper

50 100

52 33.3 23.0 42.8





#5

Vinyl chloride

Concen: 4.185 ug/L

RT: 1.62 min Scan# 87

Delta R.T. -0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

Instrument :

MSVOA_U

ClientSampleId :

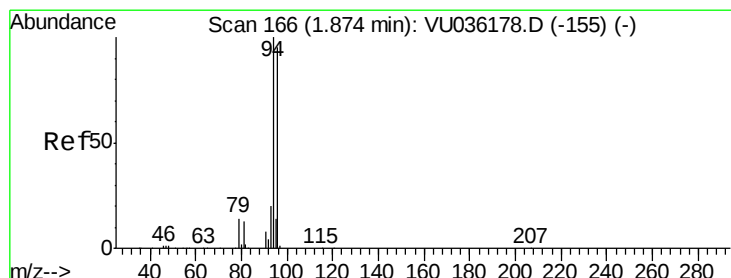
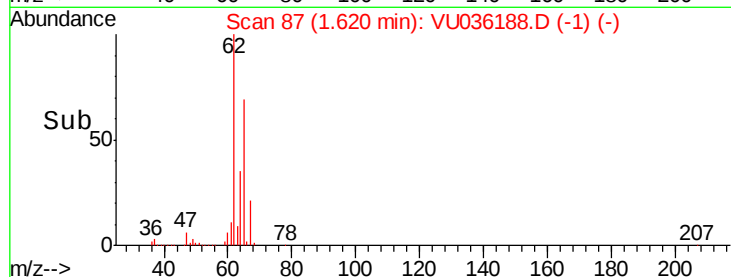
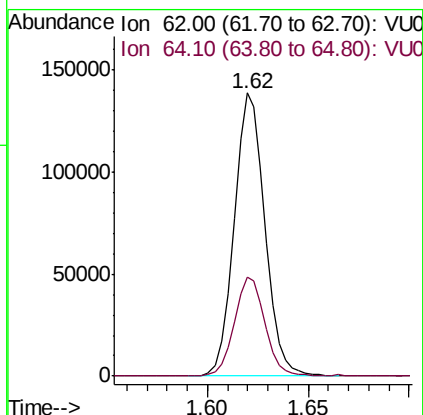
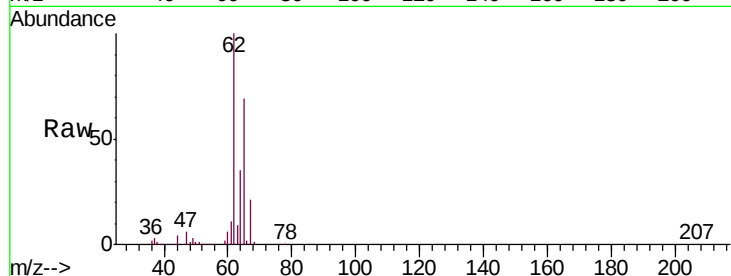
VSTD00512

Tgt Ion: 62 Resp: 147848

Ion Ratio Lower Upper

62 100

64 35.0 24.0 44.6



#6

Bromomethane

Concen: 3.327 ug/L

RT: 1.87 min Scan# 166

Delta R.T. -0.00 min

Lab File: VU036188.D

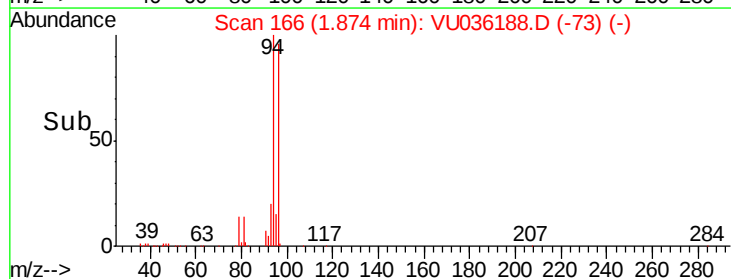
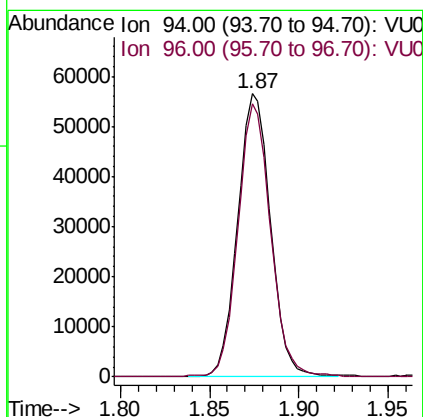
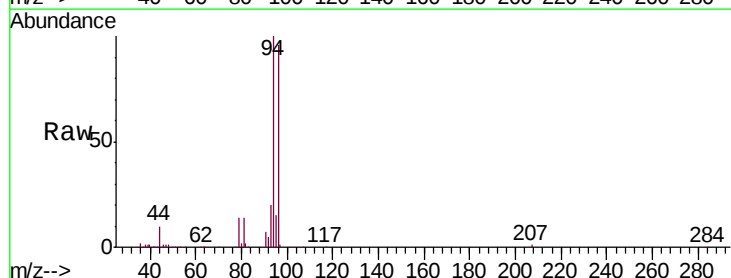
Acq: 13 Dec 2019 08:06

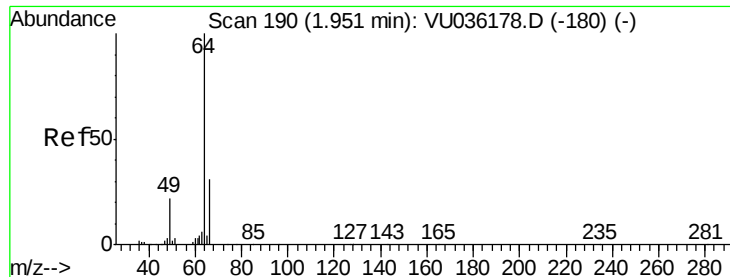
Tgt Ion: 94 Resp: 72261

Ion Ratio Lower Upper

94 100

96 96.4 67.7 125.7

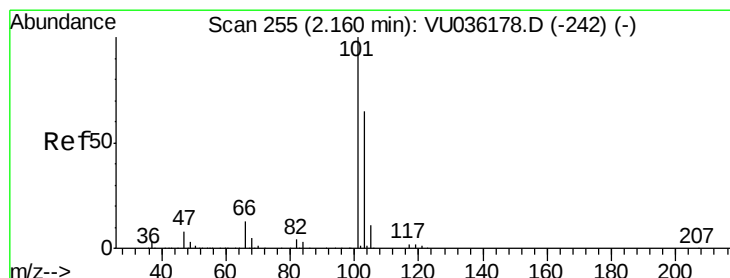
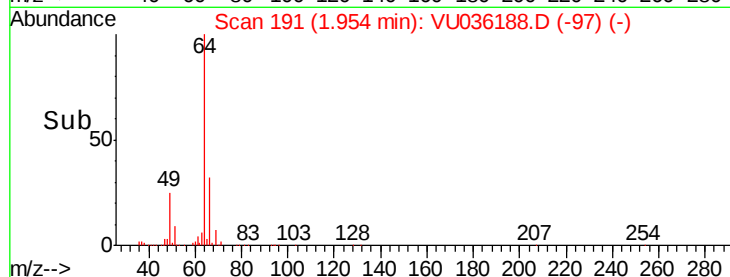
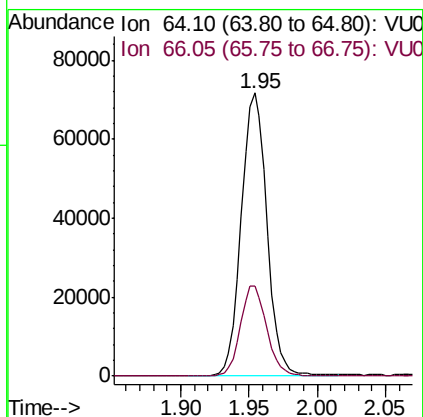
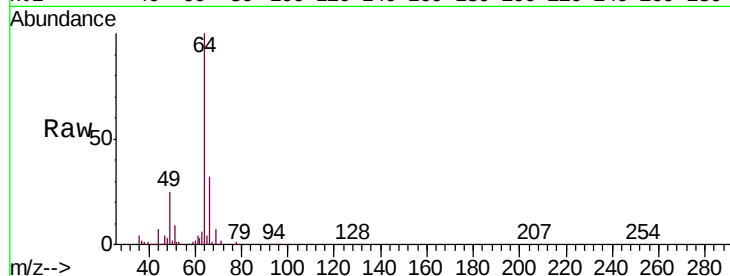




#8
Chloroethane
Concen: 4.267 ug/L
RT: 1.95 min Scan# 191
Delta R.T. 0.00 min
Lab File: VU036188.D
Acq: 13 Dec 2019 08:06

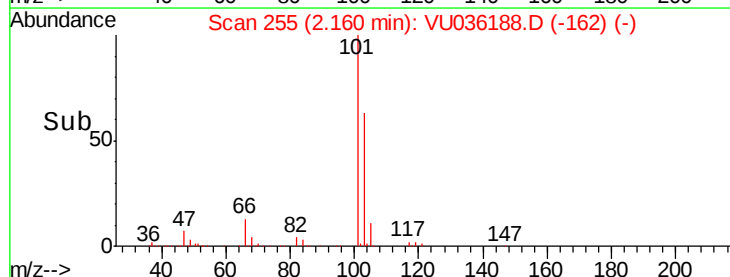
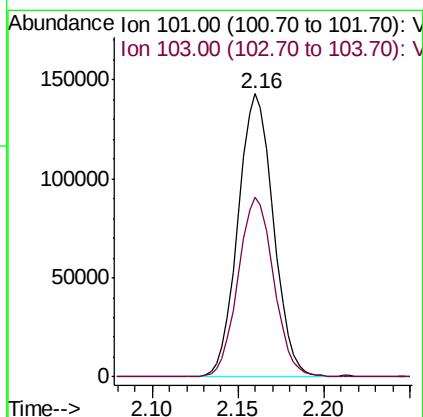
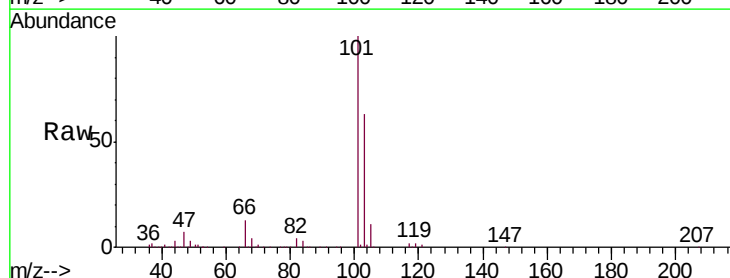
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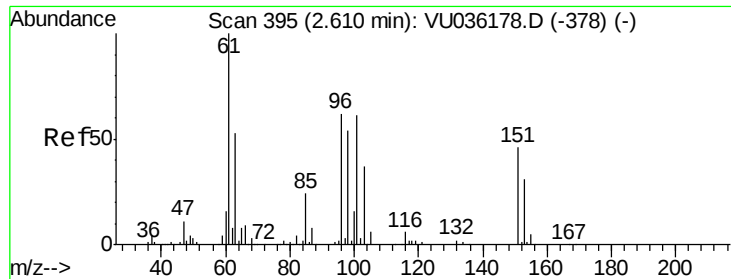
Tgt Ion: 64 Resp: 92793
Ion Ratio Lower Upper
64 100
66 31.8 22.0 41.0



#9
Trichlorofluoromethane
Concen: 4.746 ug/L
RT: 2.16 min Scan# 255
Delta R.T. -0.00 min
Lab File: VU036188.D
Acq: 13 Dec 2019 08:06

Tgt Ion: 101 Resp: 204417
Ion Ratio Lower Upper
101 100
103 63.8 52.6 78.8





#10

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

Concen: 4.496 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

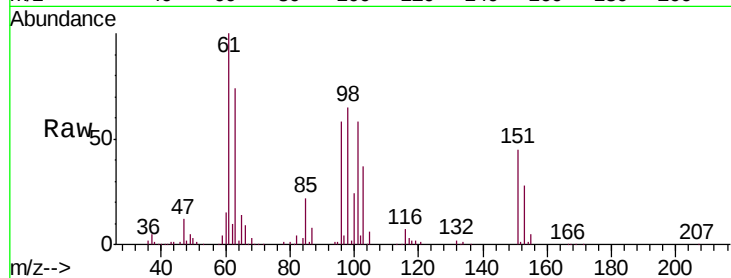
Tgt Ion: 101 Resp: 95978

Ion Ratio Lower Upper

101 100

85 40.3 34.2 51.4

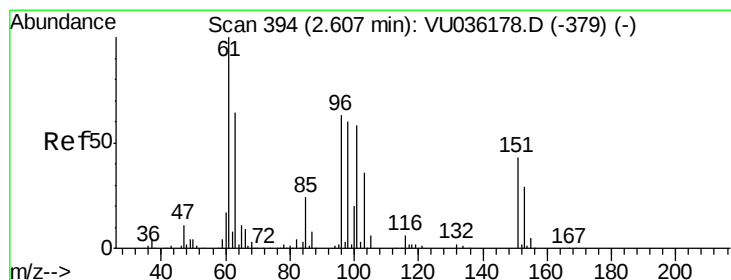
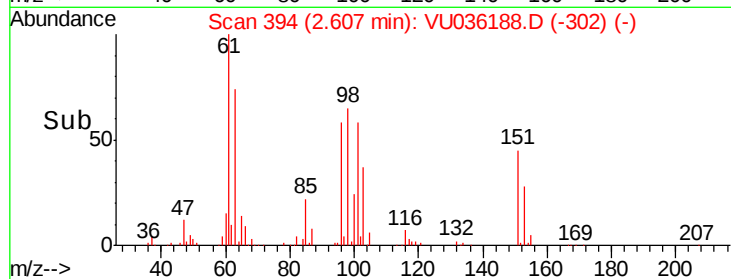
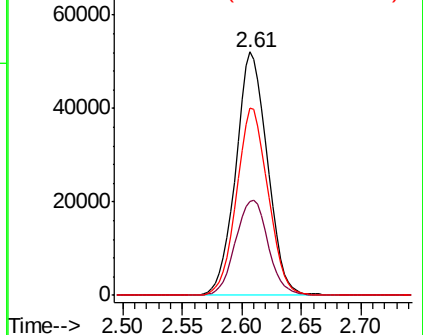
151 76.7 63.4 95.0



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: 4.438 ug/L

RT: 2.61 min Scan# 394

Delta R.T. -0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

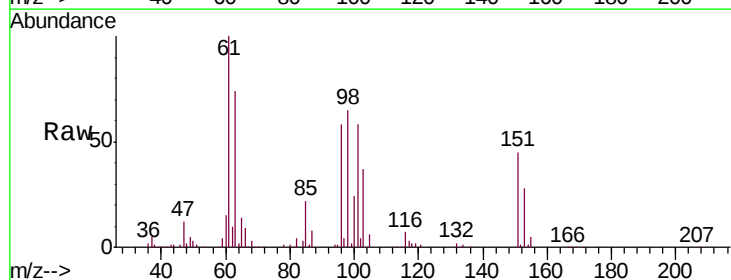
Tgt Ion: 96 Resp: 88462

Ion Ratio Lower Upper

96 100

61 173.3 110.6 205.4

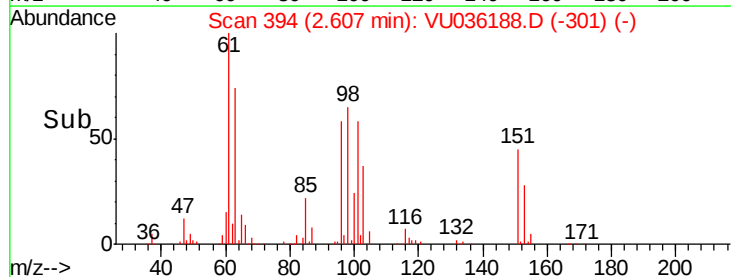
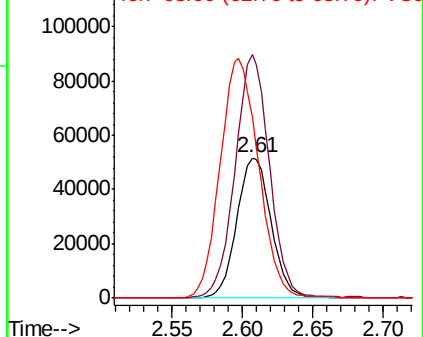
63 128.5 71.6 133.0

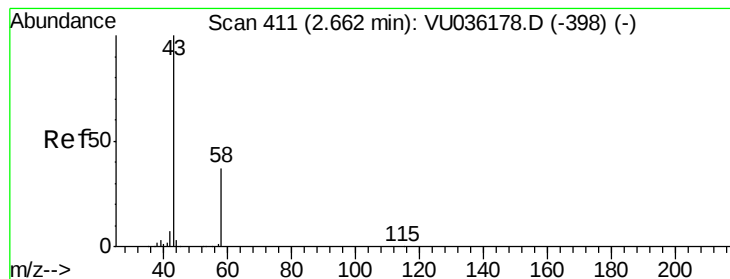


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 41.777 ug/L

RT: 2.66 min Scan# 411

Delta R.T. -0.00 min

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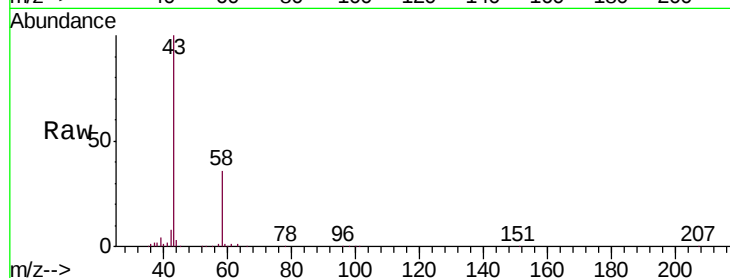
VSTD00512

Tgt Ion: 43 Resp: 156527

Ion Ratio Lower Upper

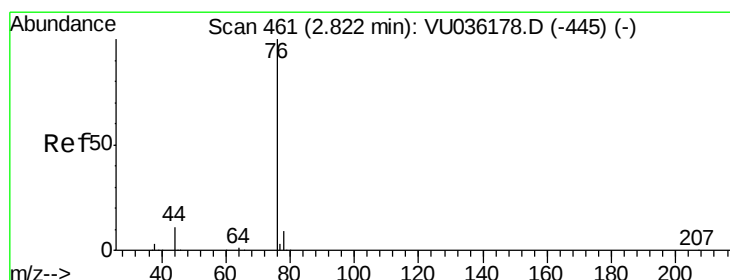
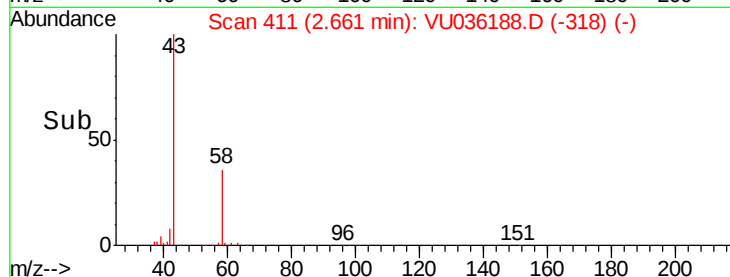
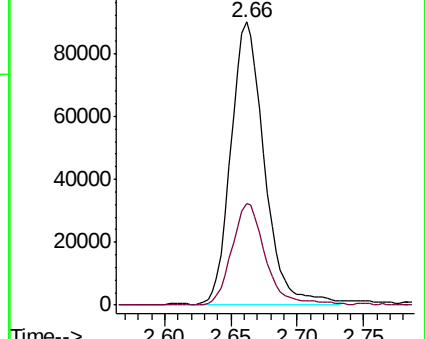
43 100

58 36.6 0.0 70.0



Abundance Ion 43.05 (42.75 to 43.75): VU036178.D (-398) (-)

Ion 58.05 (57.75 to 58.75): VU036178.D (-398) (-)



#14

Carbon disulfide

Concen: 4.116 ug/L

RT: 2.83 min Scan# 462

Delta R.T. 0.00 min

Lab File: VU036188.D

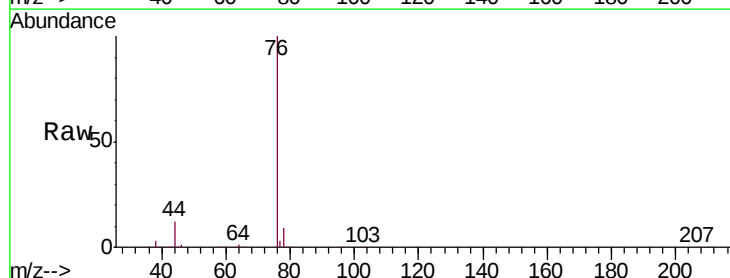
Acq: 13 Dec 2019 08:06

Tgt Ion: 76 Resp: 272682

Ion Ratio Lower Upper

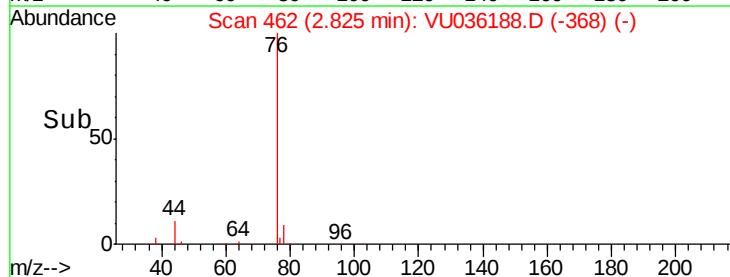
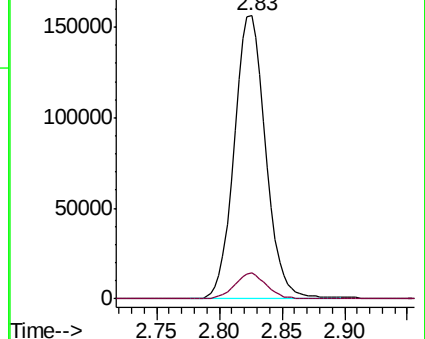
76 100

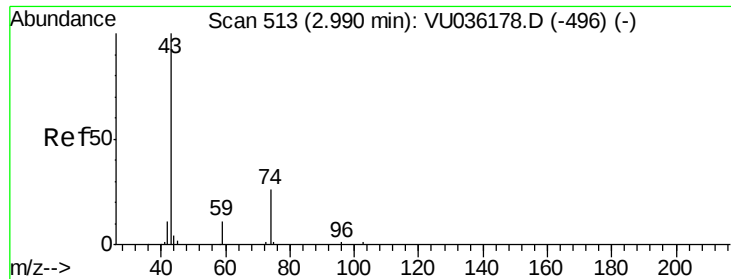
78 9.1 7.2 10.8



Abundance Ion 76.05 (75.75 to 76.75): VU036178.D (-445) (-)

Ion 78.00 (77.70 to 78.70): VU036178.D (-445) (-)

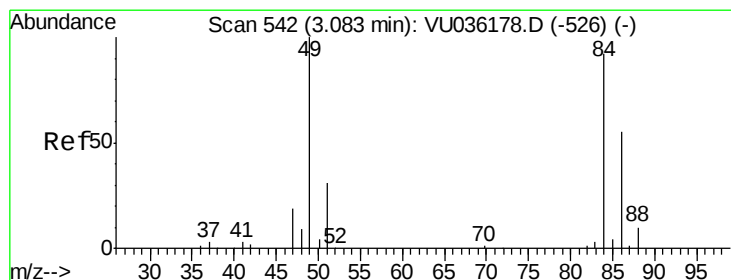
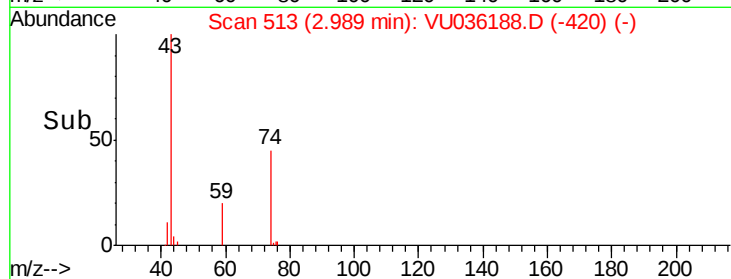
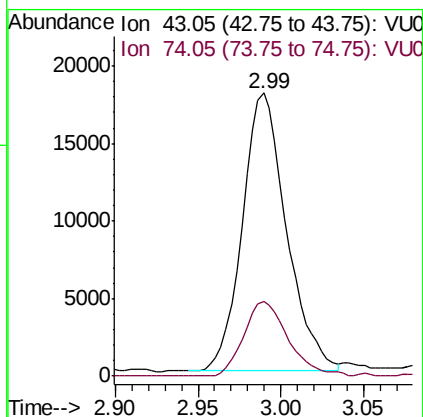
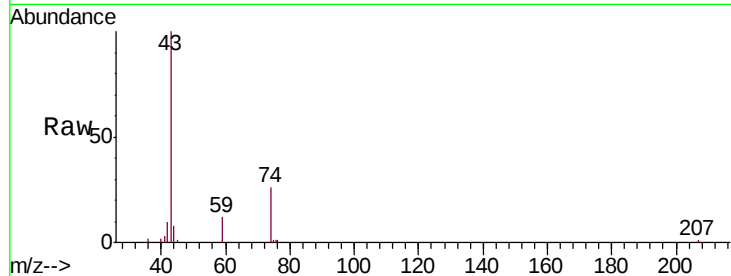




#15
Methyl Acetate
Concen: 4.142 ug/L
RT: 2.99 min Scan# 513
Delta R.T. -0.00 min
Lab File: VU036188.D
Acq: 13 Dec 2019 08:06

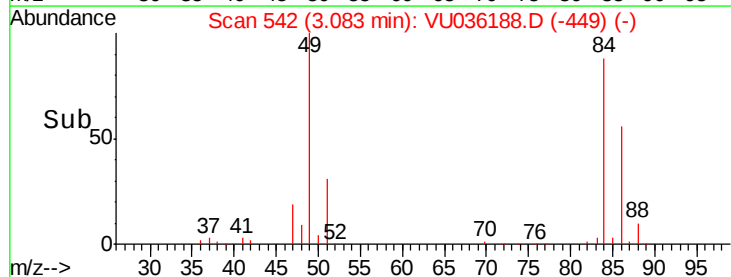
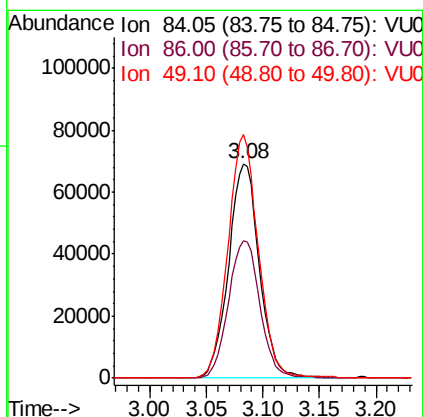
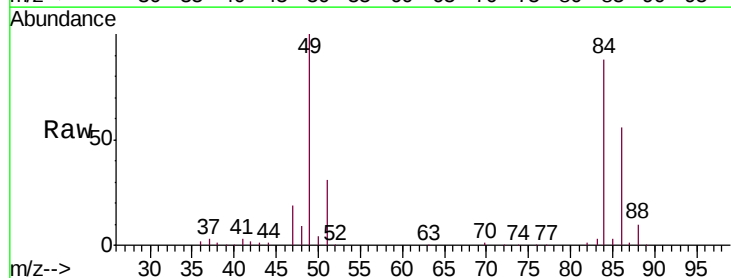
Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

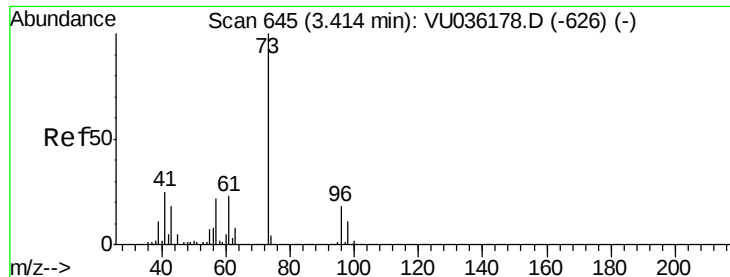
Tgt Ion: 43 Resp: 33090
Ion Ratio Lower Upper
43 100
74 27.1 20.6 30.8



#16
Methylene chloride
Concen: 4.706 ug/L
RT: 3.08 min Scan# 542
Delta R.T. -0.00 min
Lab File: VU036188.D
Acq: 13 Dec 2019 08:06

Tgt Ion: 84 Resp: 131183
Ion Ratio Lower Upper
84 100
86 64.1 46.1 85.5
49 113.7 77.7 144.3





#17

Methyl tert-butyl Ether

Concen: 4.614 ug/L

RT: 3.41 min Scan# 645

Delta R.T. -0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

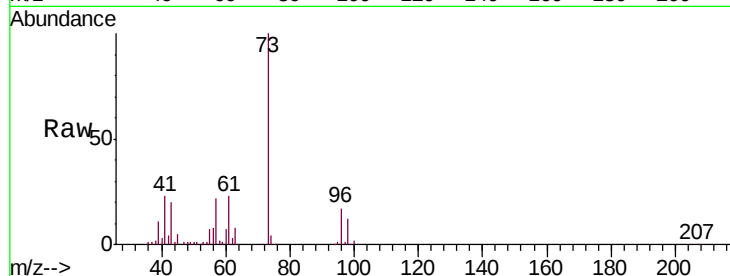
Tgt Ion: 73 Resp: 191250

Ion Ratio Lower Upper

73 100

43 19.8 15.3 22.9

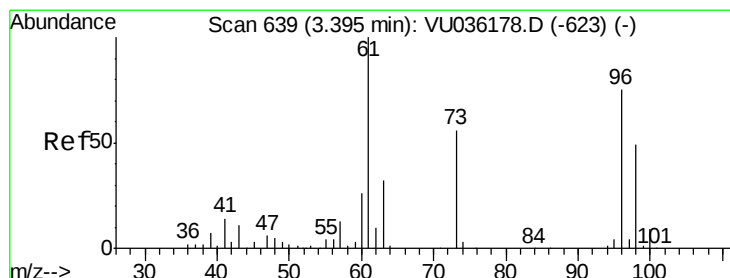
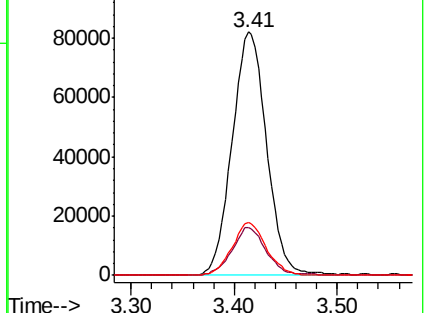
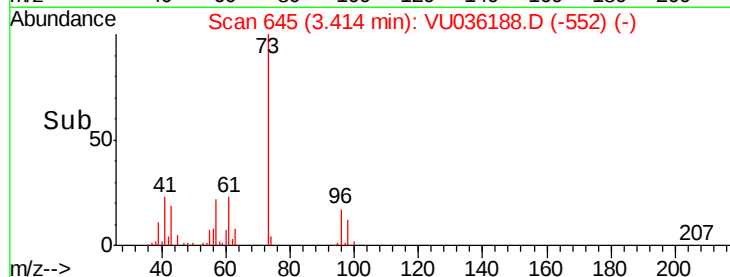
57 21.6 18.3 27.5



Abundance Ion 73.10 (72.80 to 73.80): VU036188.D (-626) (-)

Ion 43.05 (42.75 to 43.75): VU036188.D (-626) (-)

Ion 57.10 (56.80 to 57.80): VU036188.D (-626) (-)



#18

trans-1,2-Dichloroethene

Concen: 4.418 ug/L

RT: 3.39 min Scan# 639

Delta R.T. -0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

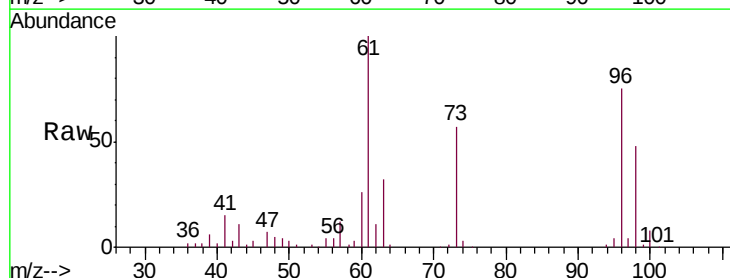
Tgt Ion: 96 Resp: 91378

Ion Ratio Lower Upper

96 100

61 133.6 93.2 173.2

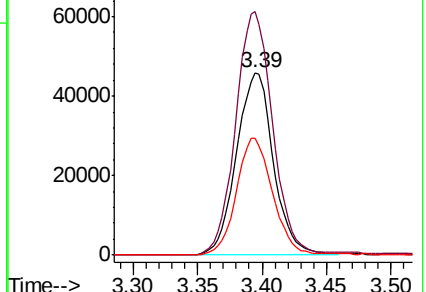
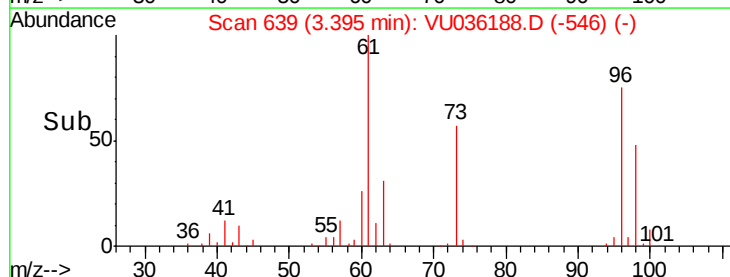
98 64.1 43.5 80.9

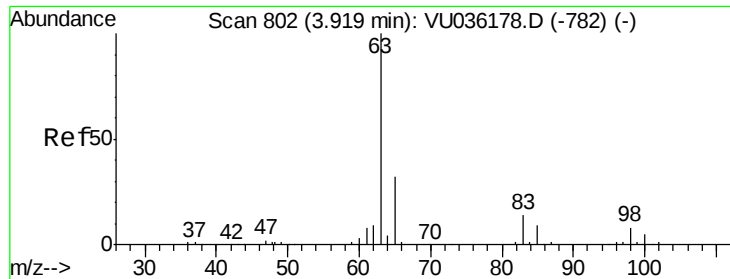


Abundance Ion 96.00 (95.70 to 96.70): VU036188.D (-623) (-)

Ion 61.05 (60.75 to 61.75): VU036188.D (-623) (-)

Ion 97.95 (97.65 to 98.65): VU036188.D (-623) (-)

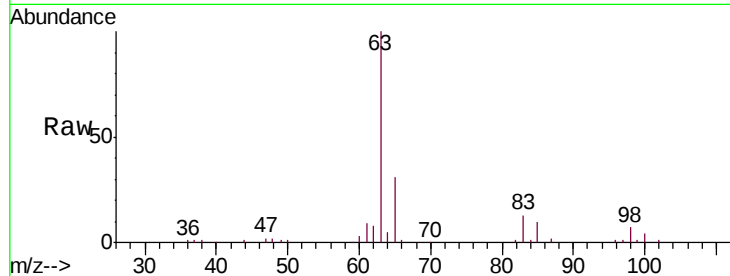




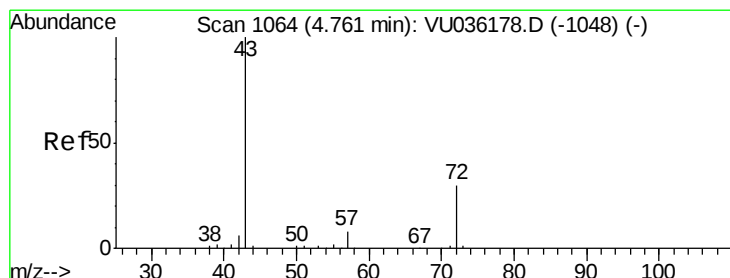
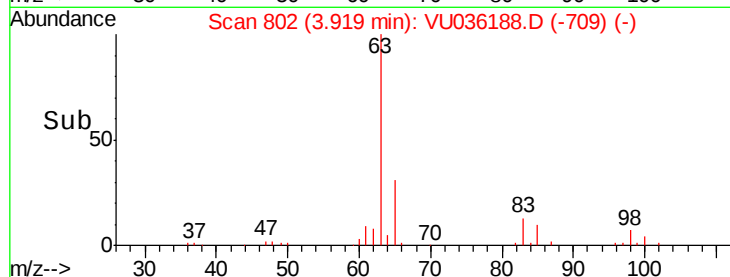
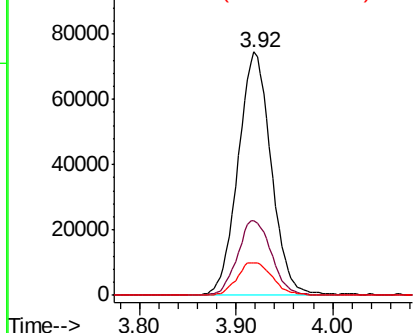
#19
 1,1-Dichloroethane
 Concen: 4.661 ug/L
 RT: 3.92 min Scan# 802
 Delta R.T. -0.00 min
 Lab File: VU036188.D
 Acq: 13 Dec 2019 08:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tgt Ion: 63 Resp: 177311
 Ion Ratio Lower Upper
 63 100
 65 30.6 22.2 41.2
 83 13.1 9.8 18.2

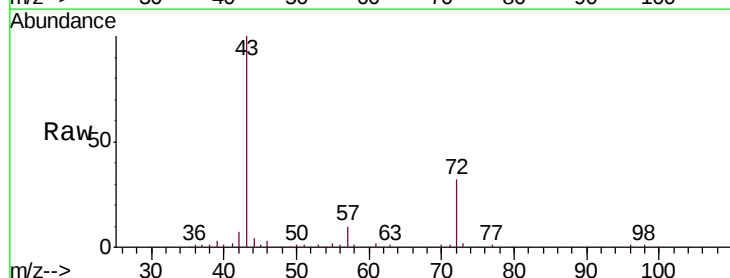


Abundance Ion 63.10 (62.80 to 63.80): VU0
 Ion 65.10 (64.80 to 65.80): VU0
 Ion 83.05 (82.75 to 83.75): VU0

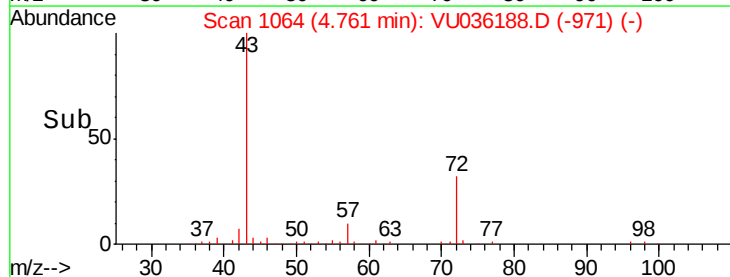
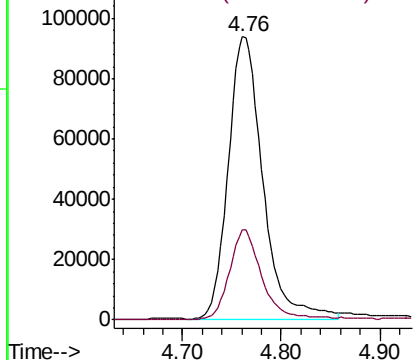


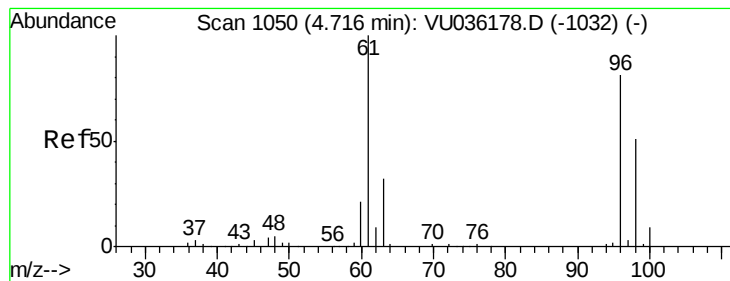
#21
 2-Butanone
 Concen: 45.818 ug/L
 RT: 4.76 min Scan# 1064
 Delta R.T. -0.00 min
 Lab File: VU036188.D
 Acq: 13 Dec 2019 08:06

Tgt Ion: 43 Resp: 228854
 Ion Ratio Lower Upper
 43 100
 72 29.6 14.4 43.2



Abundance Ion 43.05 (42.75 to 43.75): VU0
 Ion 72.10 (71.80 to 72.80): VU0





#22

cis-1,2-Dichloroethene

Concen: 4.673 ug/L

RT: 4.72 min Scan# 1051

Delta R.T. 0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

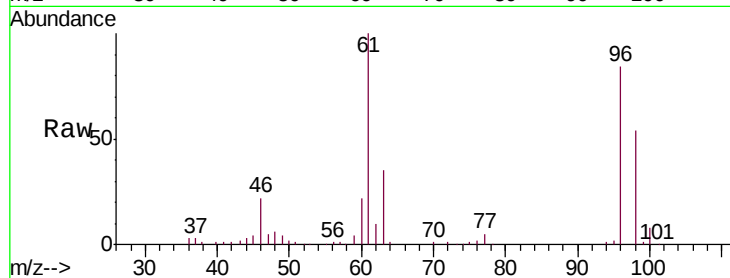
Tgt Ion: 96 Resp: 99486

Ion Ratio Lower Upper

96 100

61 118.5 83.8 155.6

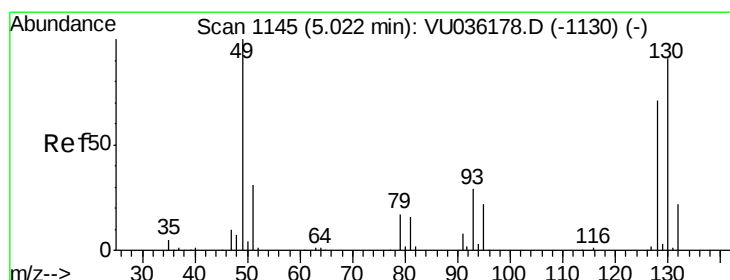
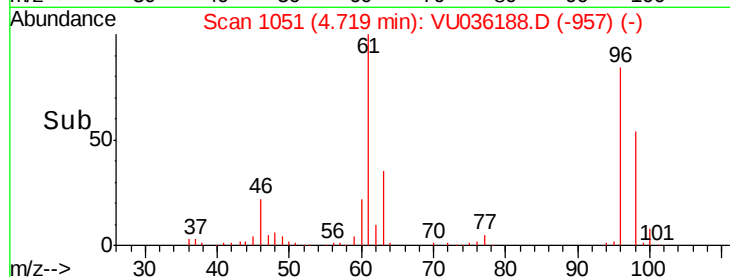
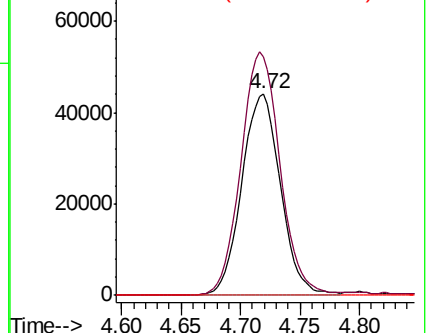
68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 68.15 (67.85 to 68.85): VU0



#23

Bromochloromethane

Concen: 4.785 ug/L

RT: 5.02 min Scan# 1146

Delta R.T. 0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

Tgt Ion: 128 Resp: 50701

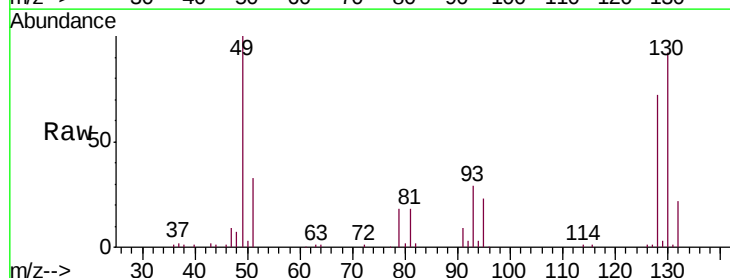
Ion Ratio Lower Upper

128 100

49 138.8 98.3 182.7

130 127.8 86.0 159.6

51 45.7 33.0 49.4

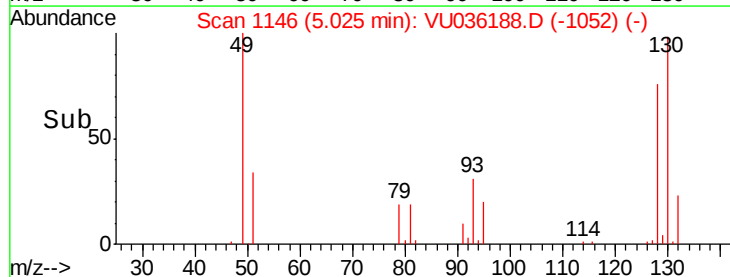
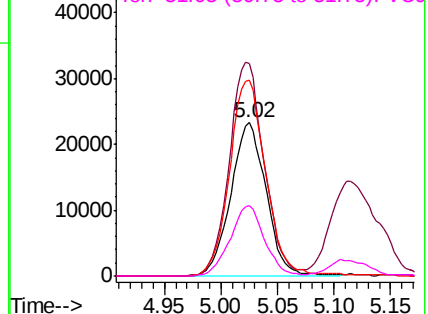


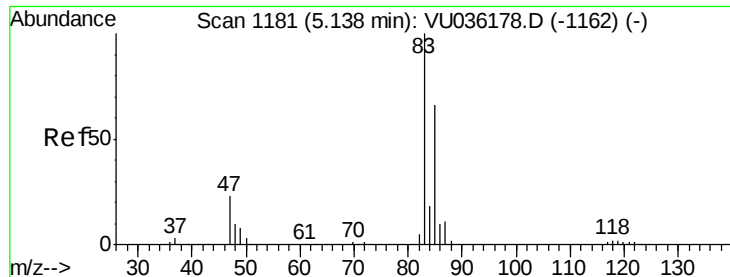
Abundance Ion 127.90 (127.60 to 128.60): V

Ion 49.10 (48.80 to 49.80): VU0

Ion 129.95 (129.65 to 130.65): V

Ion 51.05 (50.75 to 51.75): VU0

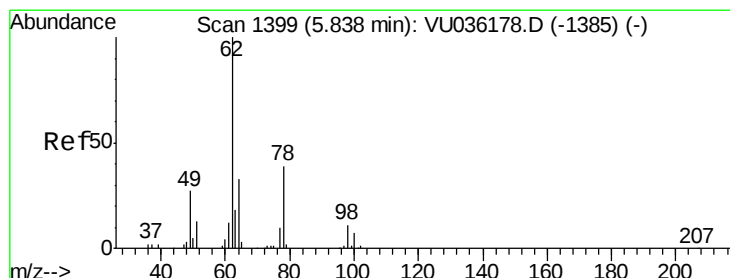
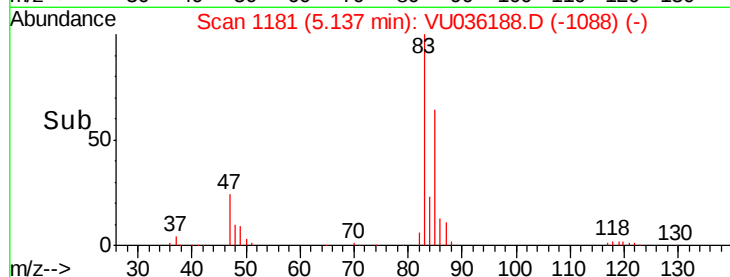
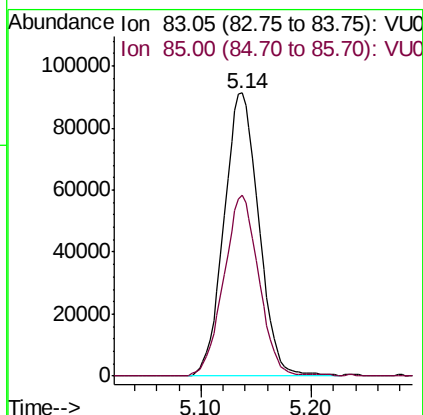
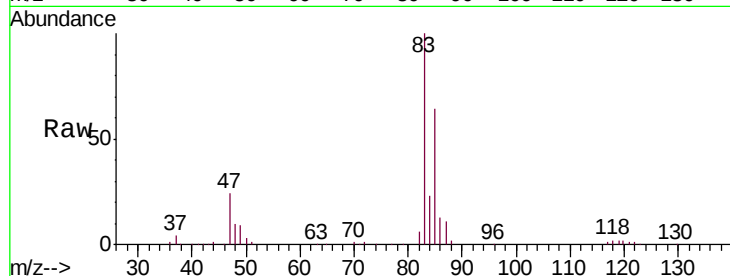




#25
Chloroform
Concen: 4.955 ug/L
RT: 5.14 min Scan# 1181
Delta R.T. -0.00 min
Lab File: VU036188.D
Acq: 13 Dec 2019 08:06

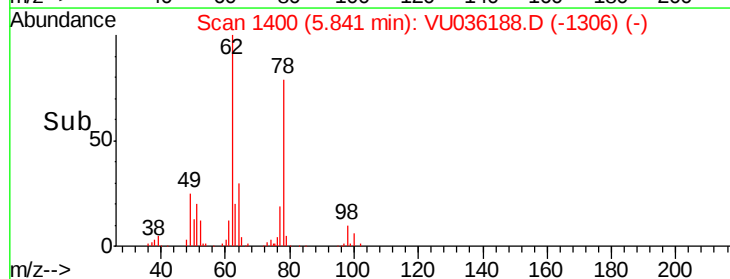
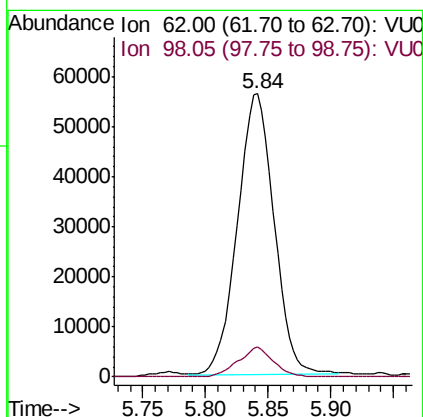
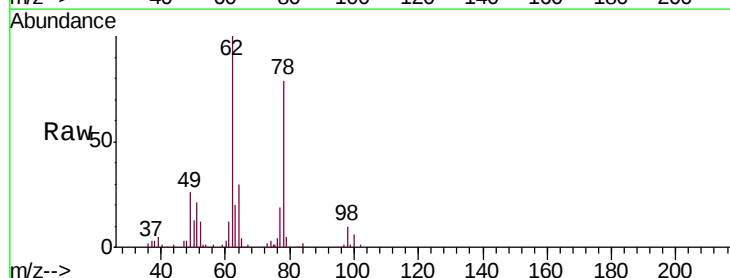
Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

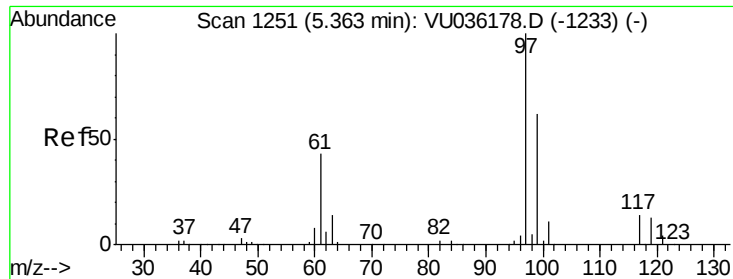
Tgt Ion: 83 Resp: 199255
Ion Ratio Lower Upper
83 100
85 63.7 44.2 82.0



#27
1,2-Dichloroethane
Concen: 4.868 ug/L
RT: 5.84 min Scan# 1400
Delta R.T. 0.00 min
Lab File: VU036188.D
Acq: 13 Dec 2019 08:06

Tgt Ion: 62 Resp: 114758
Ion Ratio Lower Upper
62 100
98 10.4 7.3 10.9

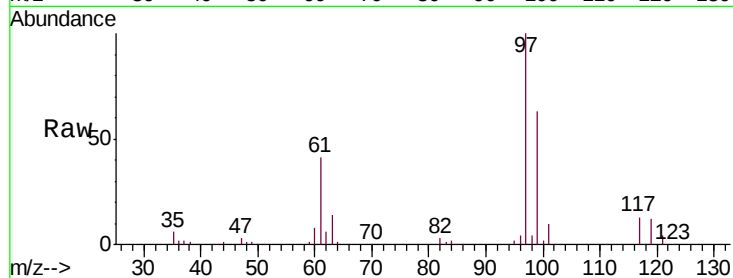




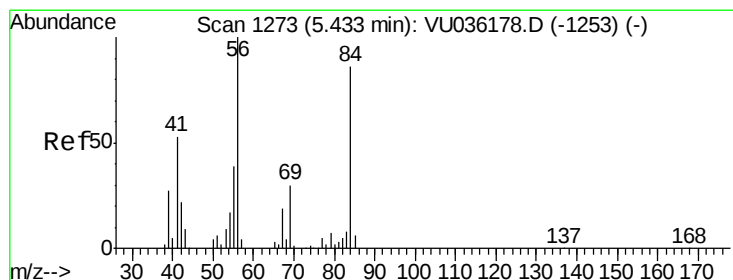
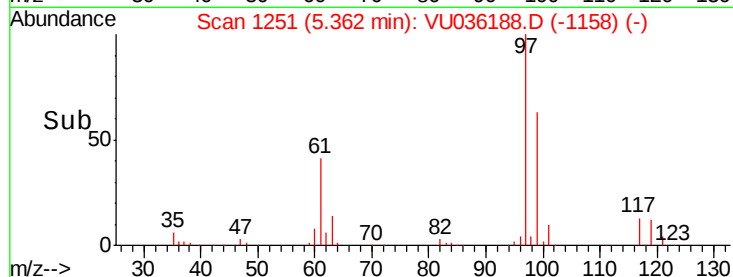
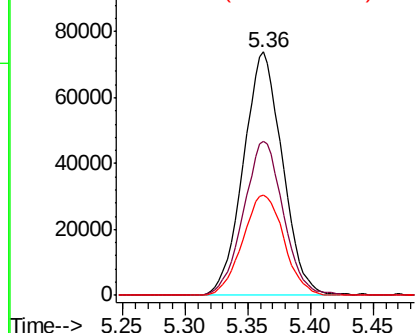
#29
 1,1,1-Trichloroethane
 Concen: 4.485 ug/L
 RT: 5.36 min Scan# 1251
 Delta R.T. -0.00 min
 Lab File: VU036188.D
 Acq: 13 Dec 2019 08:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tgt Ion: 97 Resp: 160007
 Ion Ratio Lower Upper
 97 100
 99 64.7 52.6 79.0
 61 43.7 35.4 53.2

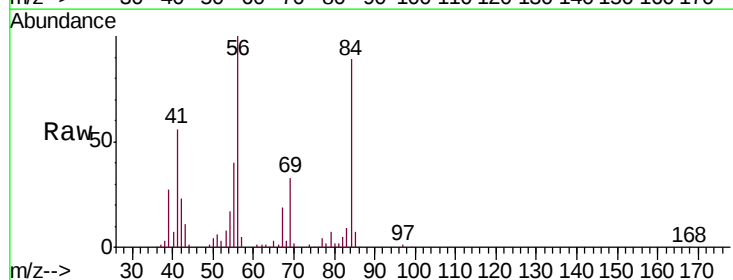


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

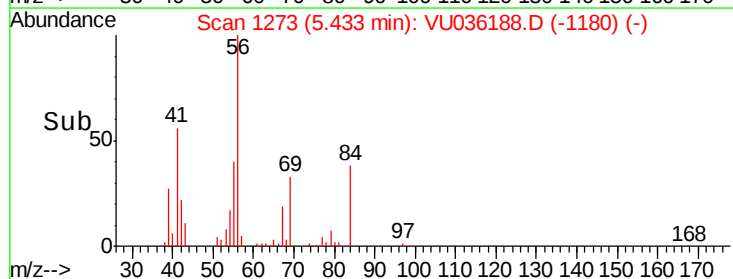
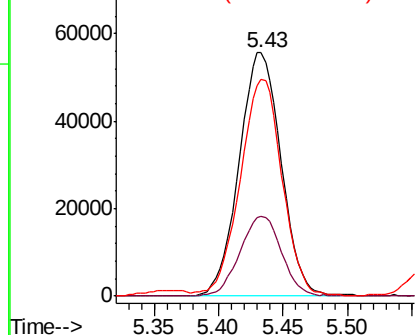


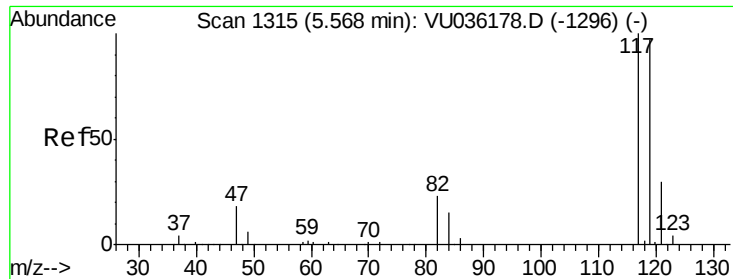
#30
 Cyclohexane
 Concen: 4.149 ug/L
 RT: 5.43 min Scan# 1273
 Delta R.T. -0.00 min
 Lab File: VU036188.D
 Acq: 13 Dec 2019 08:06

Tgt Ion: 56 Resp: 126010
 Ion Ratio Lower Upper
 56 100
 69 32.5 24.7 37.1
 84 89.1 71.4 107.2



Abundance Ion 56.10 (55.80 to 56.80): VU0
 Ion 69.15 (68.85 to 69.85): VU0
 Ion 84.15 (83.85 to 84.85): VU0

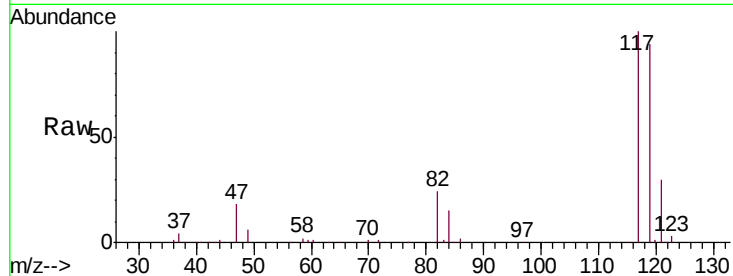




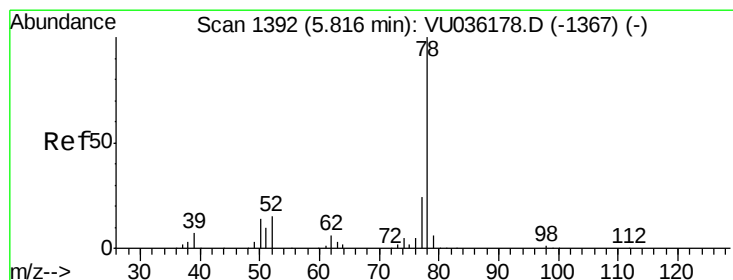
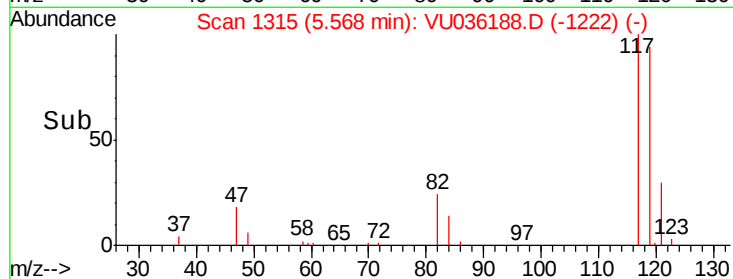
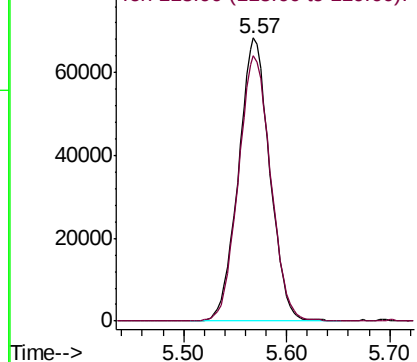
#31
Carbon tetrachloride
Concen: 4.526 ug/L
RT: 5.57 min Scan# 1315
Delta R.T. -0.00 min
Lab File: VU036188.D
Acq: 13 Dec 2019 08:06

Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Tgt Ion:117 Resp: 144500
Ion Ratio Lower Upper
117 100
119 96.6 76.6 114.8

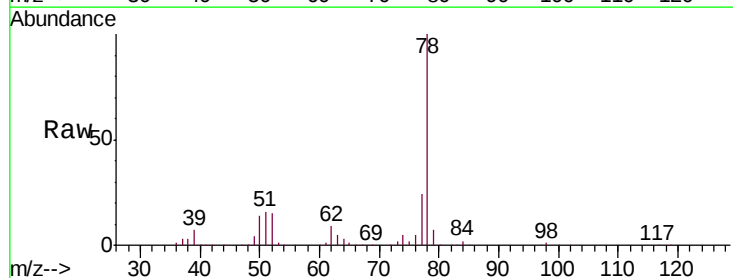


Abundance Ion 116.90 (116.60 to 117.60): V
Ion 118.90 (118.60 to 119.60): V

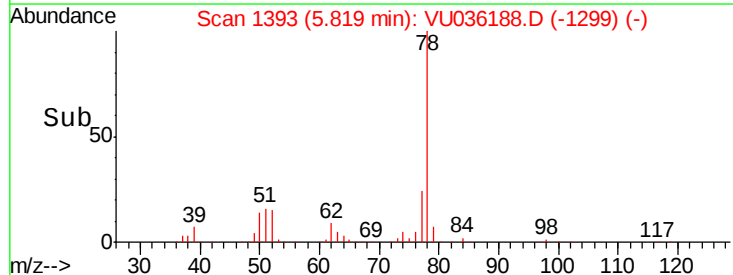
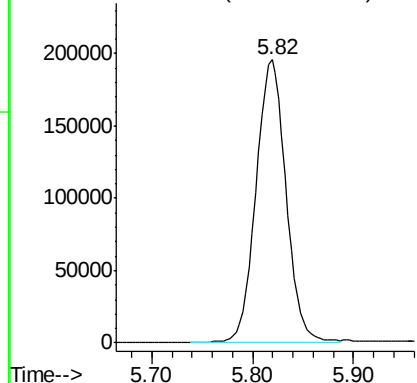


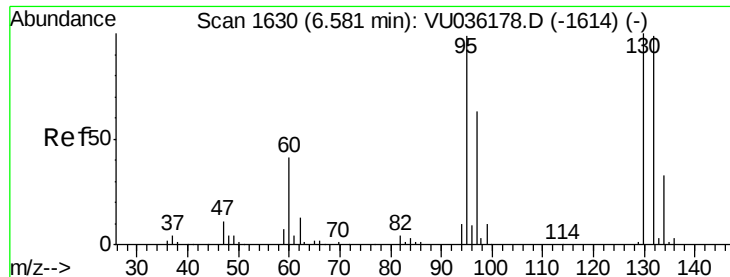
#33
Benzene
Concen: 4.519 ug/L
RT: 5.82 min Scan# 1393
Delta R.T. 0.00 min
Lab File: VU036188.D
Acq: 13 Dec 2019 08:06

Tgt Ion: 78 Resp: 404489



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 5.141 ug/L

RT: 6.58 min Scan# 1630

Delta R.T. -0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

Tgt Ion: 95 Resp: 117674

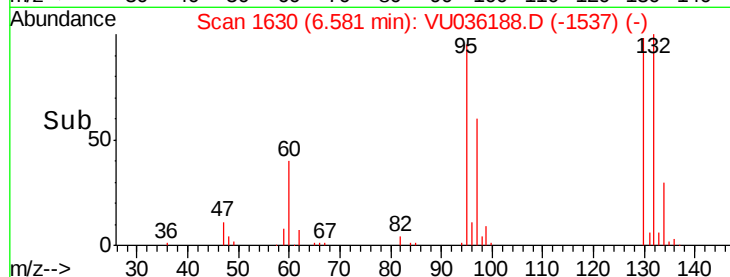
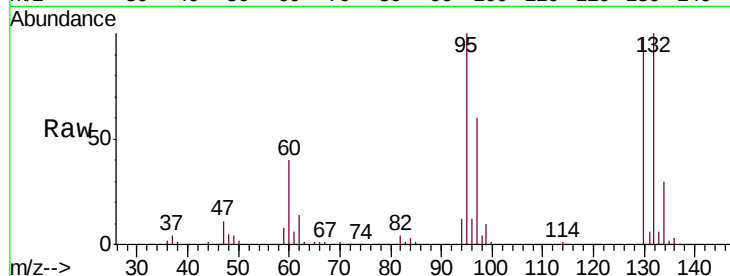
Ion Ratio Lower Upper

95 100

97 59.8 43.7 81.1

132 99.6 71.7 133.3

130 97.7 73.1 135.7

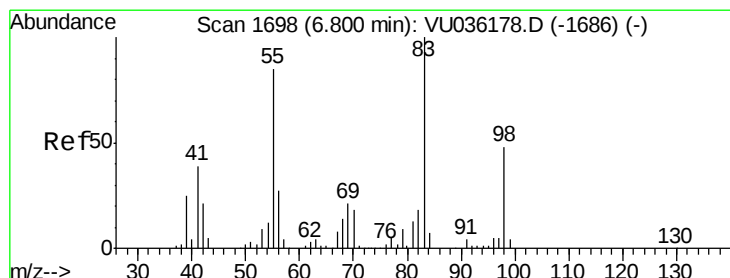
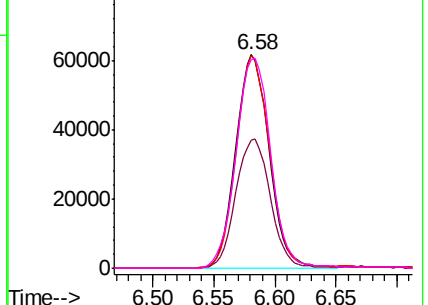


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 3.944 ug/L

RT: 6.80 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

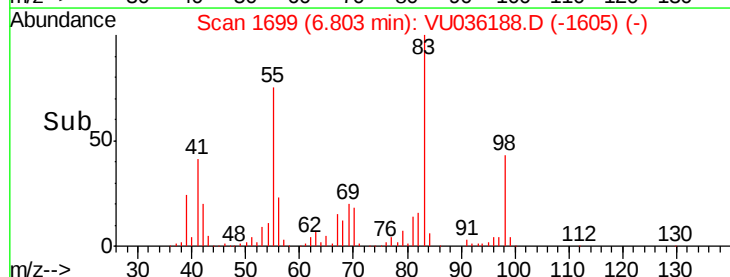
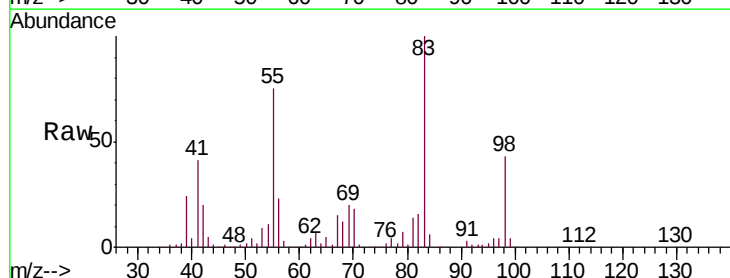
Tgt Ion: 83 Resp: 128675

Ion Ratio Lower Upper

83 100

55 82.0 61.9 92.9

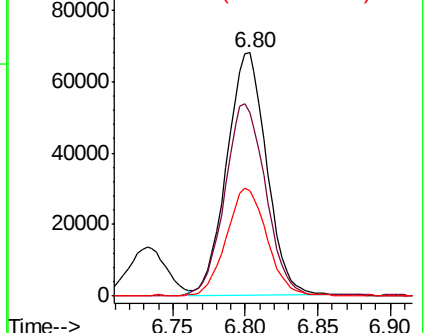
98 45.4 35.8 53.6

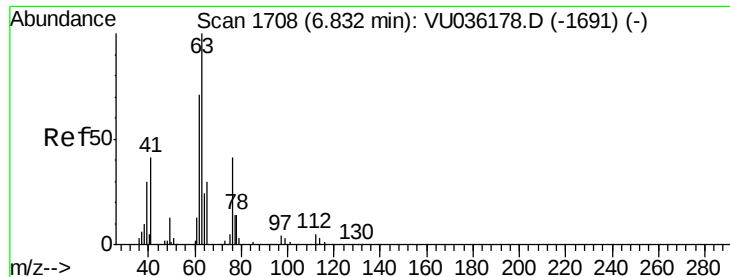


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 4.393 ug/L

RT: 6.83 min Scan# 1708

Delta R.T. -0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

Instrument :

MSVOA_U

ClientSampleId :

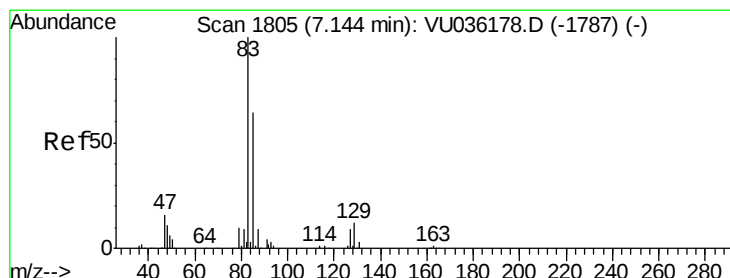
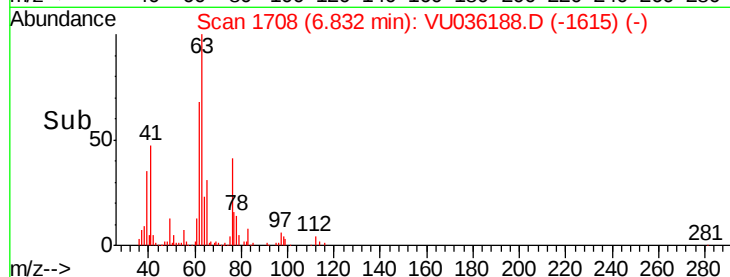
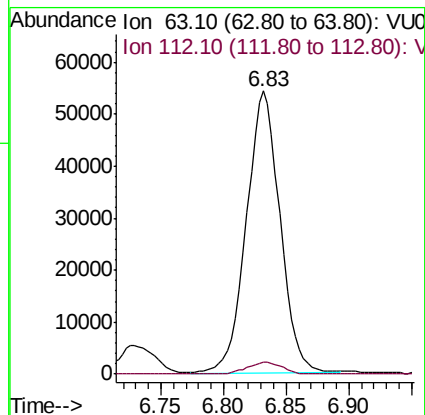
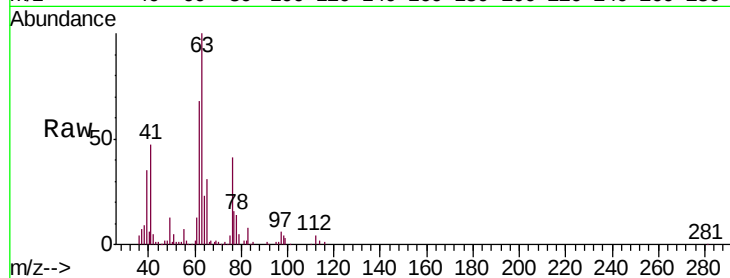
VSTD00512

Tgt Ion: 63 Resp: 101429

Ion Ratio Lower Upper

63 100

112 4.4 3.6 5.4



#38

Bromodichloromethane

Concen: 4.593 ug/L

RT: 7.14 min Scan# 1805

Delta R.T. -0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

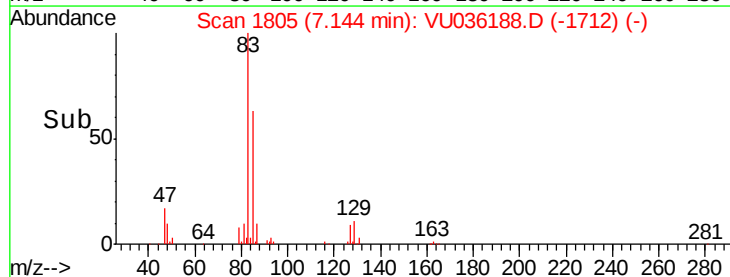
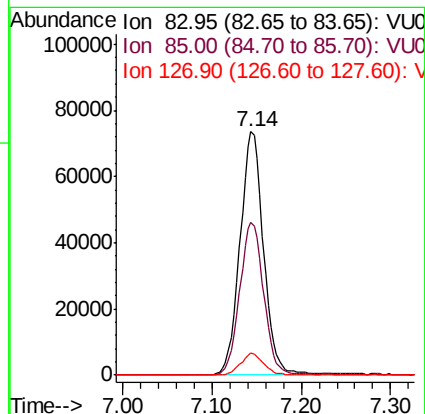
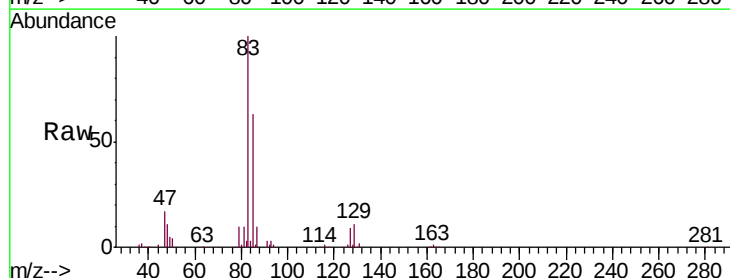
Tgt Ion: 83 Resp: 135353

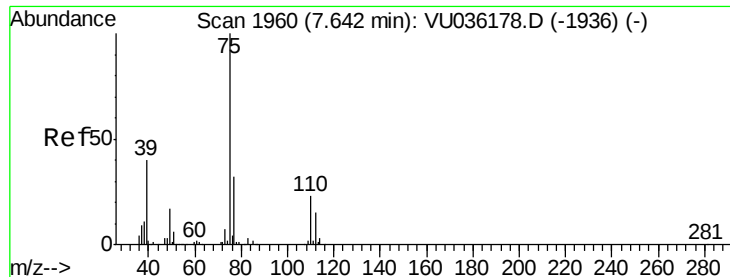
Ion Ratio Lower Upper

83 100

85 62.8 44.7 83.1

127 8.9 7.4 11.0

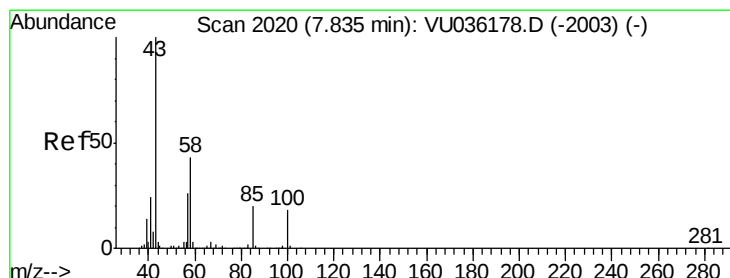
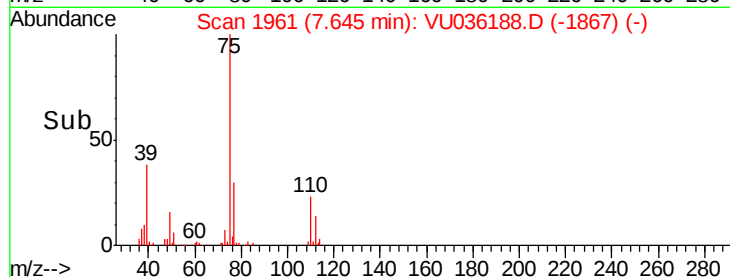
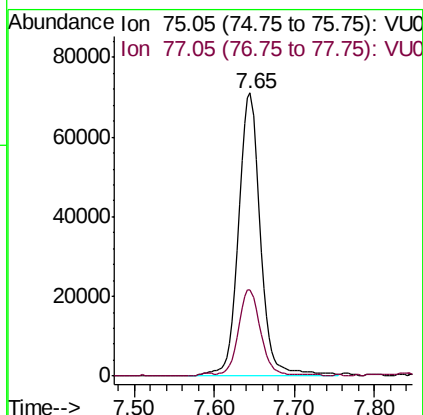
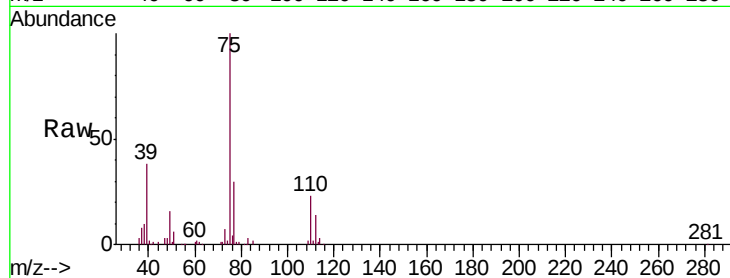




#39
 cis-1,3-Dichloropropene
 Concen: 4.281 ug/L
 RT: 7.65 min Scan# 1961
 Delta R.T. 0.00 min
 Lab File: VU036188.D
 Acq: 13 Dec 2019 08:06

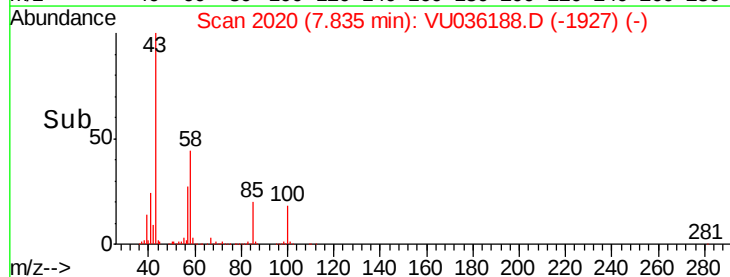
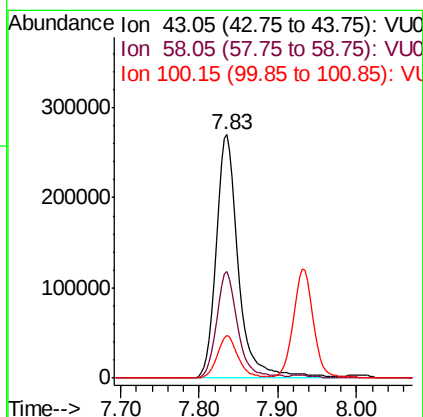
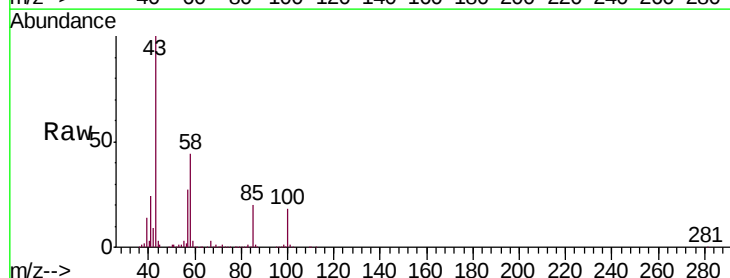
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

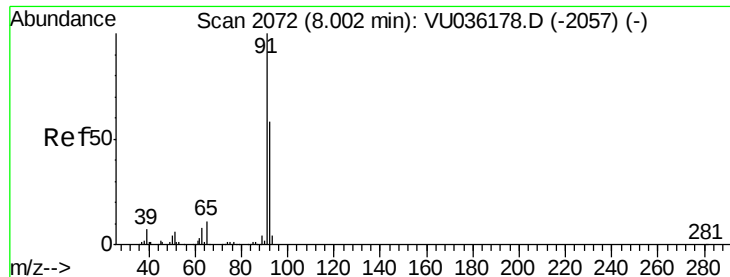
Tgt Ion: 75 Resp: 130641
 Ion Ratio Lower Upper
 75 100
 77 30.3 22.3 41.5



#40
 4-Methyl-2-pentanone
 Concen: 45.207 ug/L
 RT: 7.83 min Scan# 2020
 Delta R.T. -0.00 min
 Lab File: VU036188.D
 Acq: 13 Dec 2019 08:06

Tgt Ion: 43 Resp: 526876
 Ion Ratio Lower Upper
 43 100
 58 41.7 34.4 51.6
 100 16.4 13.4 20.2





#42

Toluene

Concen: 4.670 ug/L

RT: 8.00 min Scan# 2072

Delta R.T. -0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

Instrument :

MSVOA_U

ClientSampleId :

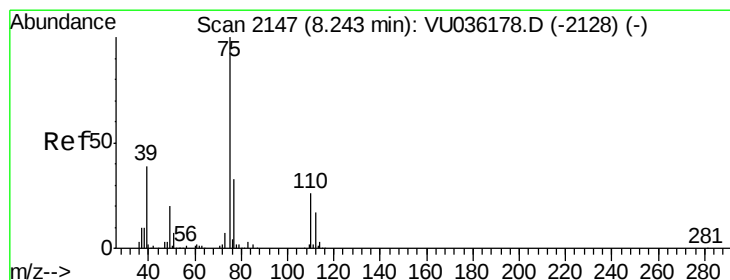
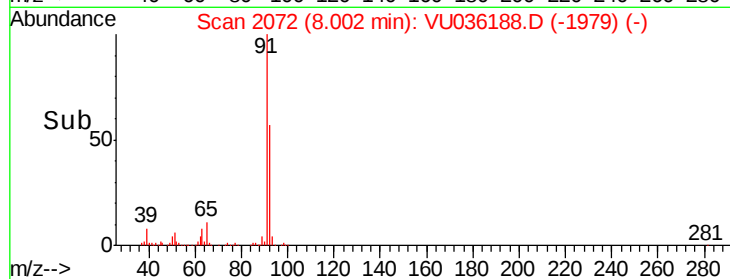
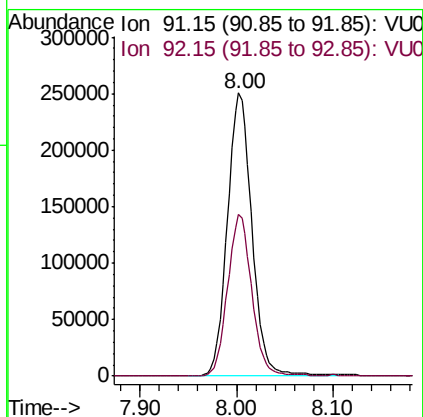
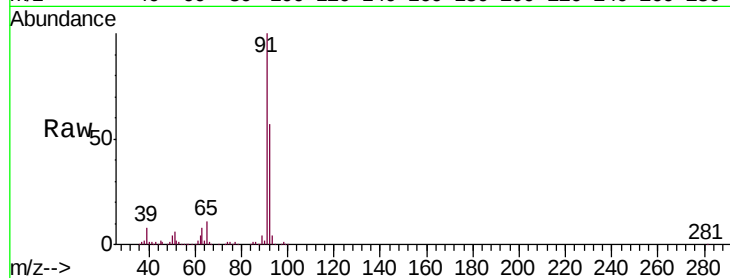
VSTD00512

Tgt Ion: 91 Resp: 442644

Ion Ratio Lower Upper

91 100

92 57.0 40.7 75.7



#44

trans-1,3-Dichloropropene

Concen: 4.247 ug/L

RT: 8.24 min Scan# 2147

Delta R.T. -0.00 min

Lab File: VU036188.D

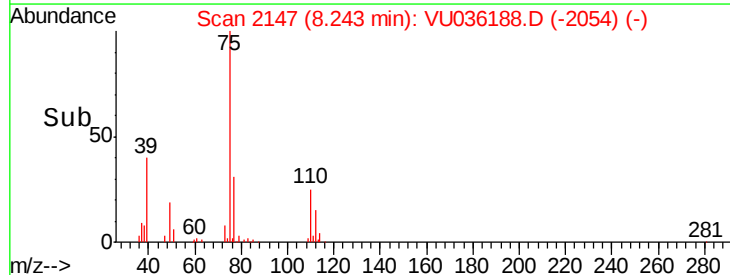
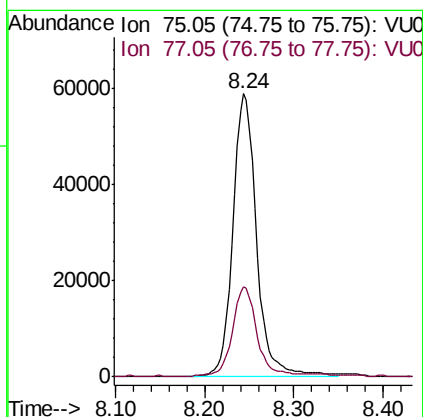
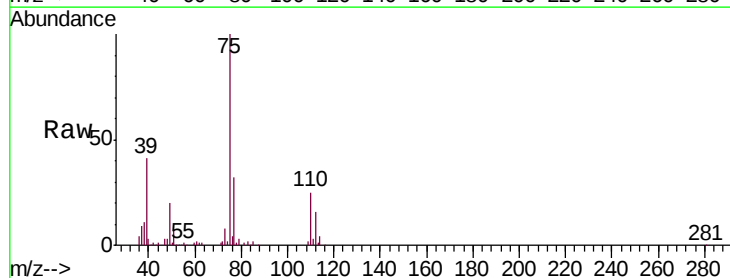
Acq: 13 Dec 2019 08:06

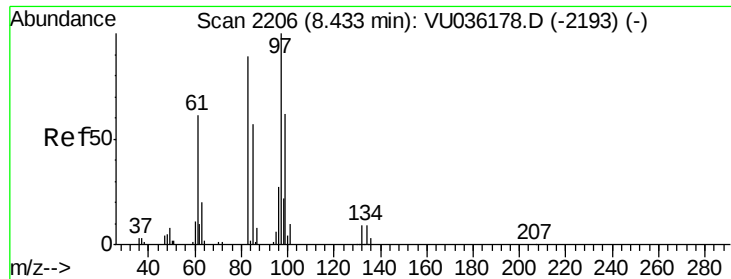
Tgt Ion: 75 Resp: 109274

Ion Ratio Lower Upper

75 100

77 31.9 22.6 42.0

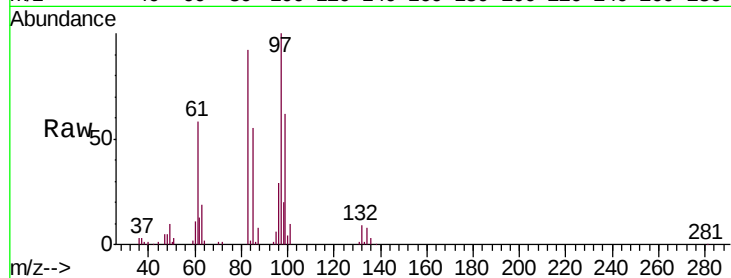




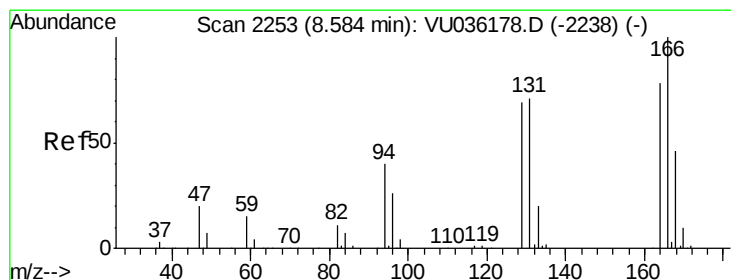
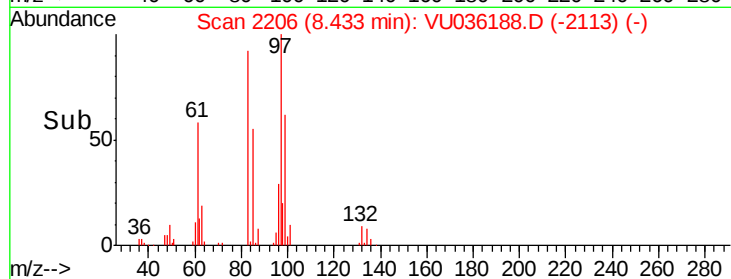
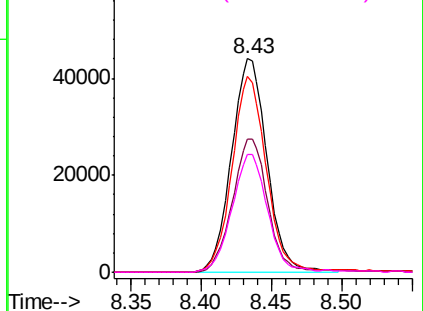
#45
 1,1,2-Trichloroethane
 Concen: 4.560 ug/L
 RT: 8.43 min Scan# 2206
 Delta R.T. -0.00 min
 Lab File: VU036188.D
 Acq: 13 Dec 2019 08:06

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tgt Ion:	97	Resp:	77657
Ion	Ratio	Lower	Upper
97	100		
99	62.2	48.4	90.0
83	91.8	62.2	115.4
85	55.2	40.1	74.5

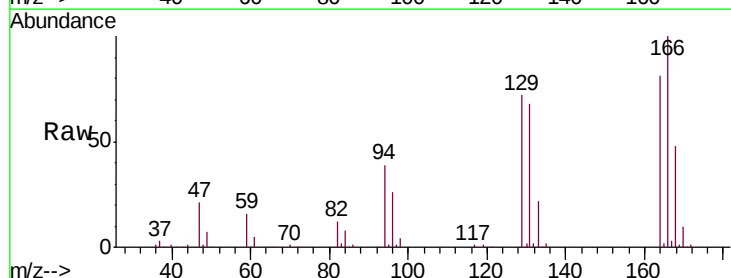


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

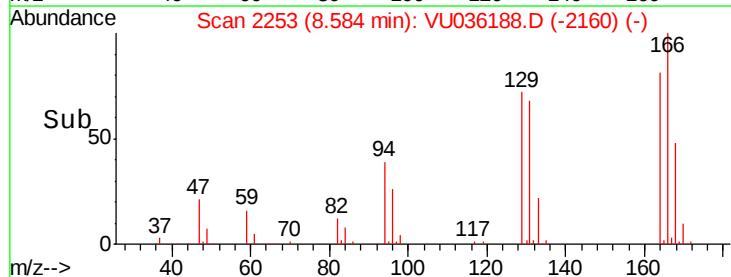
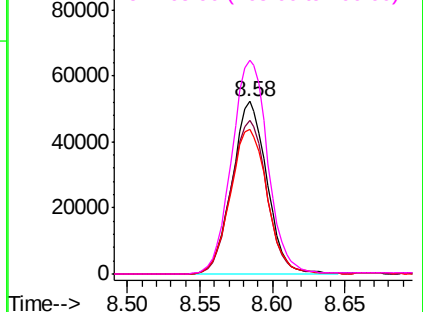


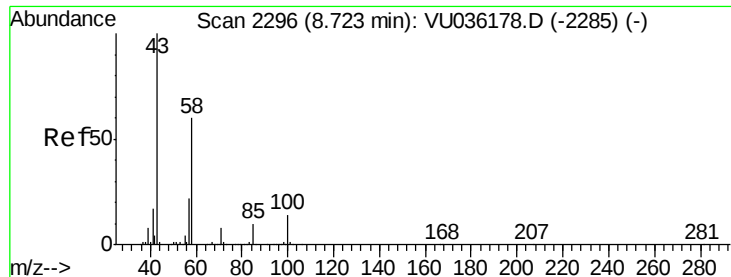
#47
 Tetrachloroethene
 Concen: 4.354 ug/L
 RT: 8.58 min Scan# 2253
 Delta R.T. -0.00 min
 Lab File: VU036188.D
 Acq: 13 Dec 2019 08:06

Tgt Ion:	164	Resp:	87316
Ion	Ratio	Lower	Upper
164	100		
129	88.7	63.1	117.3
131	83.8	61.4	114.0
166	123.7	87.1	161.7



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 128.95 (128.65 to 129.65): V
 Ion 130.95 (130.65 to 131.65): V
 Ion 165.90 (165.60 to 166.60): V

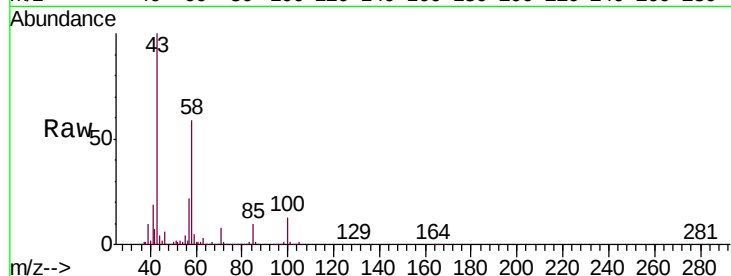




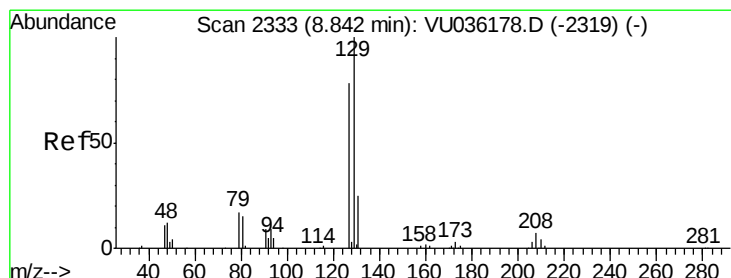
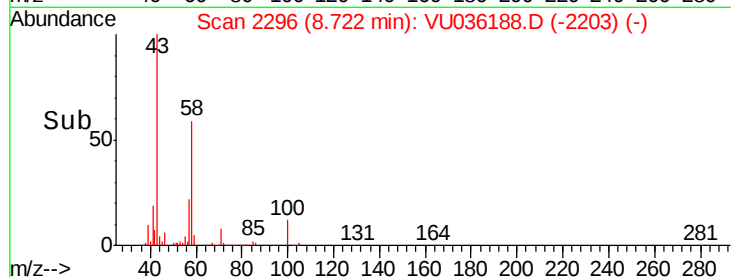
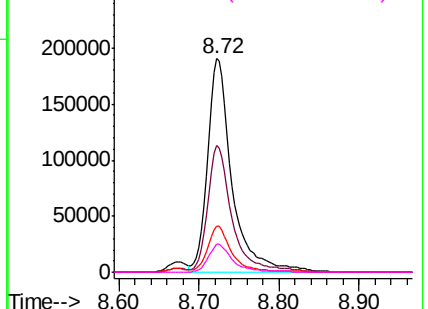
#48
2-Hexanone
Concen: 47.189 ug/L
RT: 8.72 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VU036188.D
Acq: 13 Dec 2019 08:06

Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Tgt Ion: 43 Resp: 403441
Ion Ratio Lower Upper
43 100
58 59.3 48.6 72.8
57 21.8 16.7 25.1
100 13.0 10.6 15.8

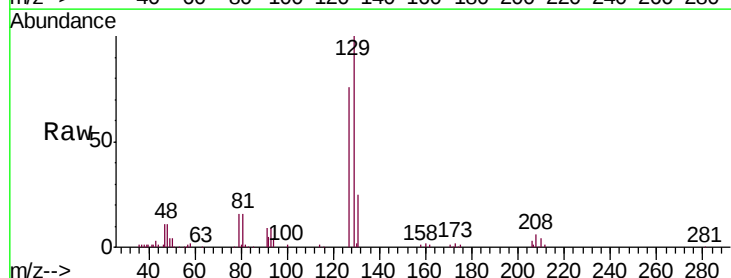


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

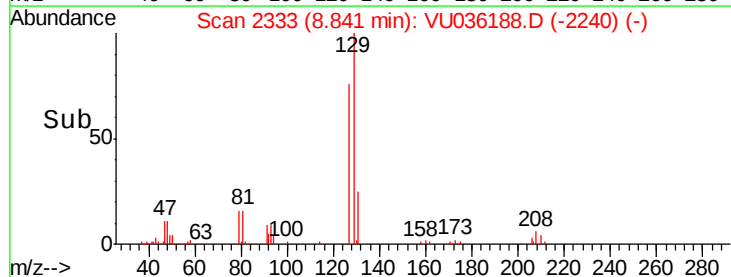
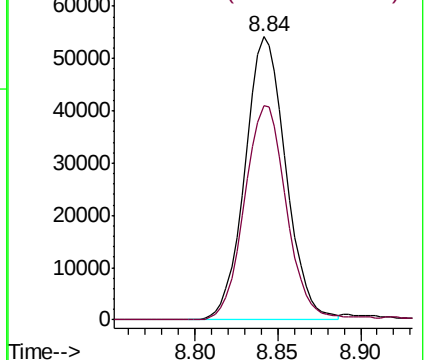


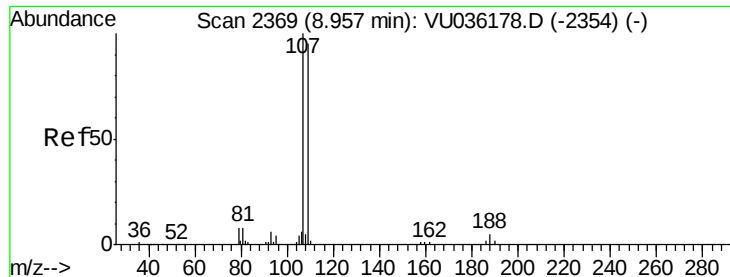
#49
Dibromochloromethane
Concen: 4.411 ug/L
RT: 8.84 min Scan# 2333
Delta R.T. -0.00 min
Lab File: VU036188.D
Acq: 13 Dec 2019 08:06

Tgt Ion: 129 Resp: 93048
Ion Ratio Lower Upper
129 100
127 75.6 54.7 101.5



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

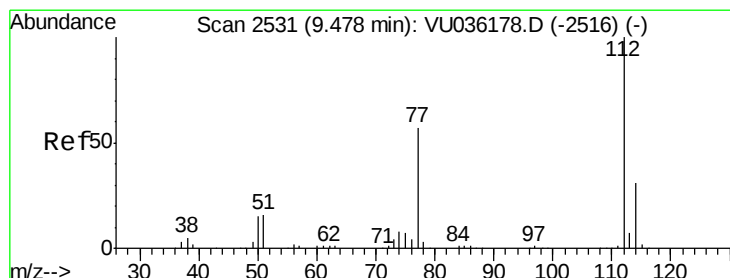
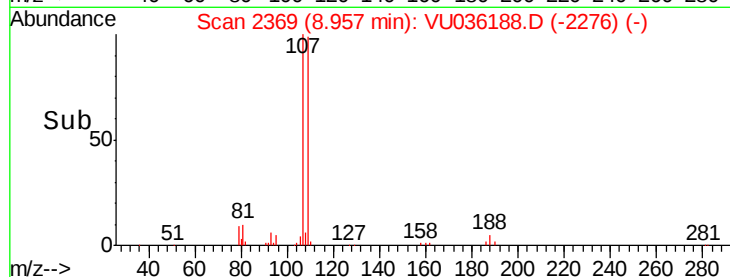
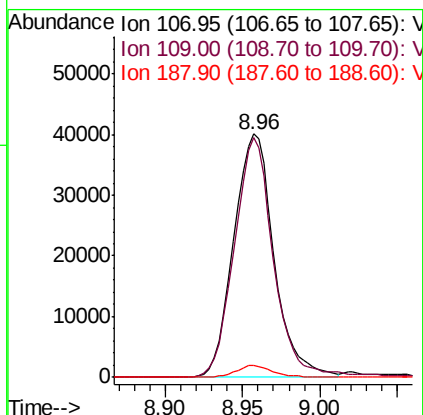
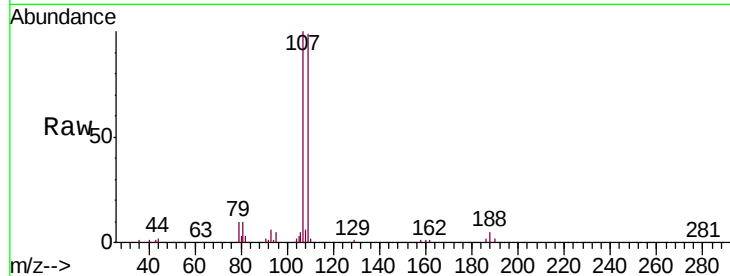




#50
1,2-Dibromoethane
Concen: 4.547 ug/L
RT: 8.96 min Scan# 2369
Delta R.T. -0.00 min
Lab File: VU036188.D
Acq: 13 Dec 2019 08:06

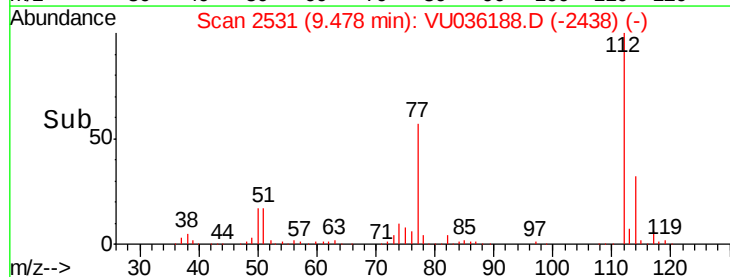
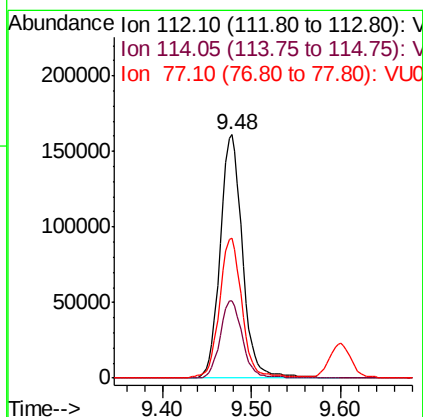
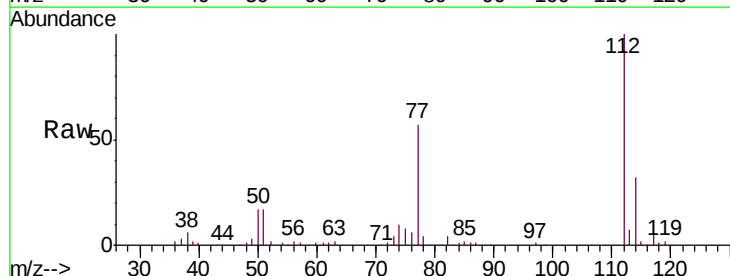
Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

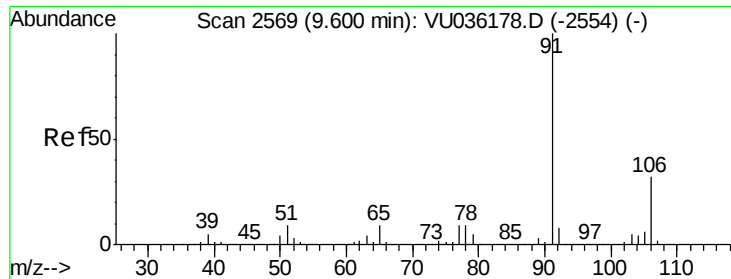
Tgt Ion:107 Resp: 72576
Ion Ratio Lower Upper
107 100
109 98.5 65.4 121.4
188 4.8 3.4 5.2



#51
Chlorobenzene
Concen: 4.522 ug/L
RT: 9.48 min Scan# 2531
Delta R.T. -0.00 min
Lab File: VU036188.D
Acq: 13 Dec 2019 08:06

Tgt Ion:112 Resp: 279103
Ion Ratio Lower Upper
112 100
114 31.9 22.2 41.2
77 57.3 45.7 68.5





#52

Ethylbenzene

Concen: 4.541 ug/L

RT: 9.60 min Scan# 2569

Delta R.T. -0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

Instrument :

MSVOA_U

ClientSampleId :

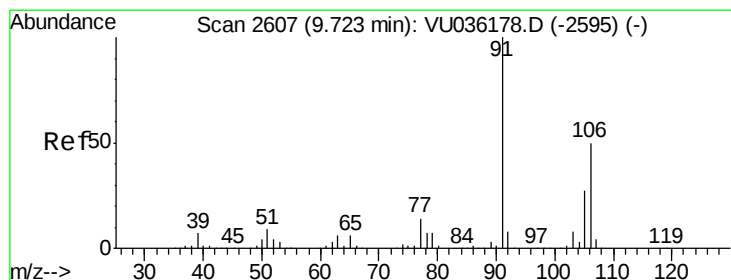
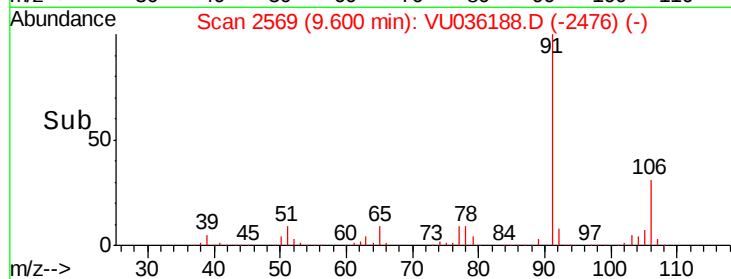
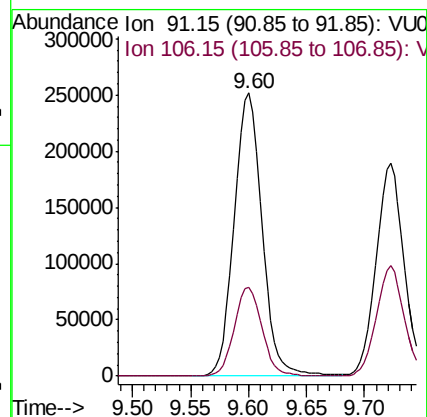
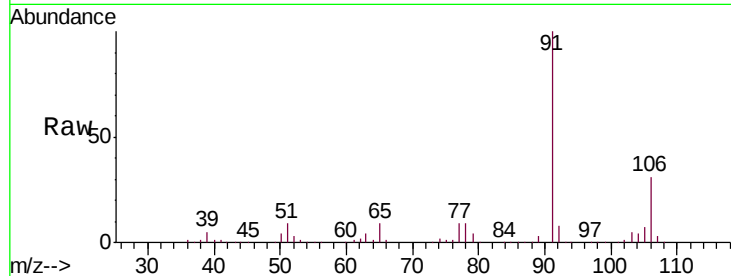
VSTD00512

Tgt Ion: 91 Resp: 418737

Ion Ratio Lower Upper

91 100

106 31.5 21.6 40.2



#53

m,p-Xylene

Concen: 4.626 ug/L

RT: 9.72 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VU036188.D

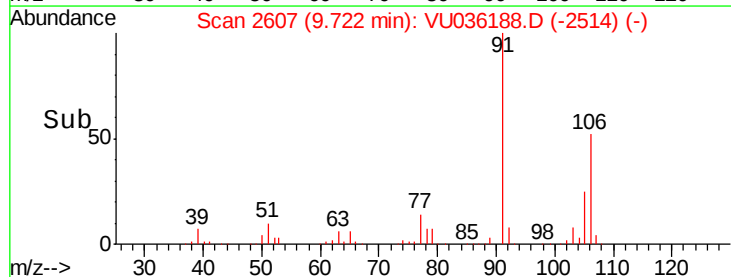
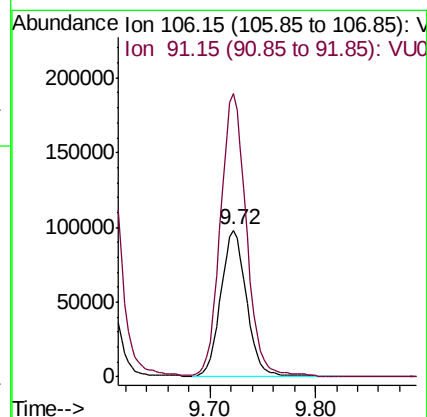
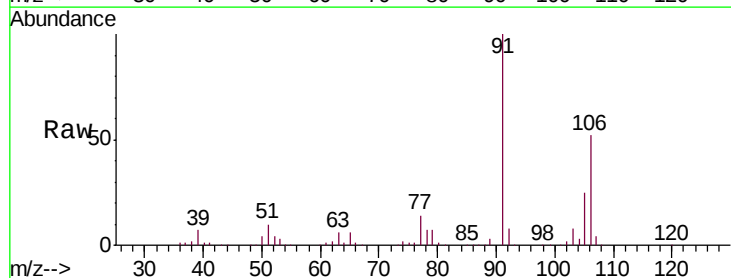
Acq: 13 Dec 2019 08:06

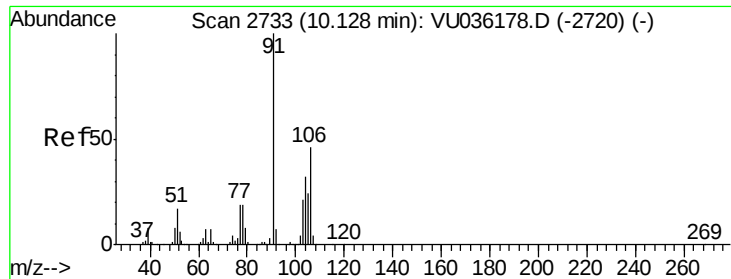
Tgt Ion: 106 Resp: 167542

Ion Ratio Lower Upper

106 100

91 193.3 140.4 260.8

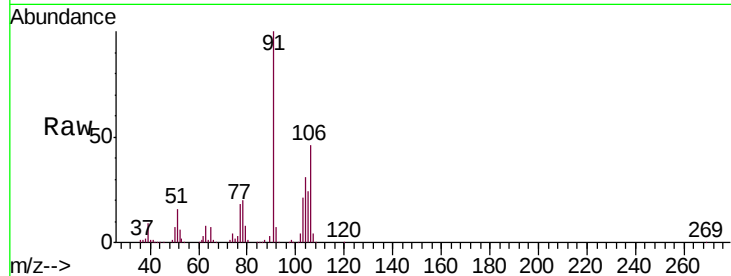




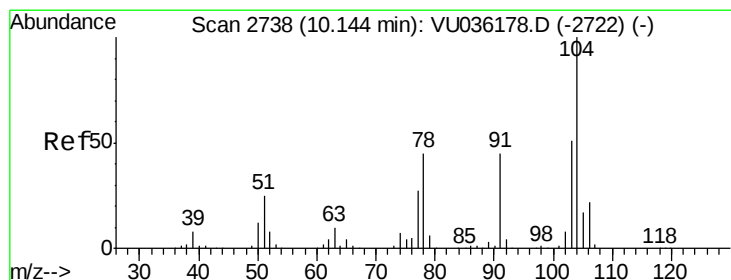
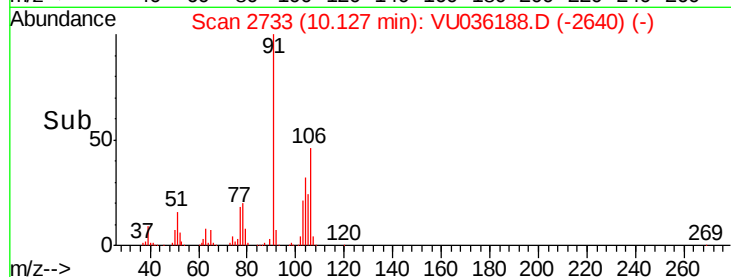
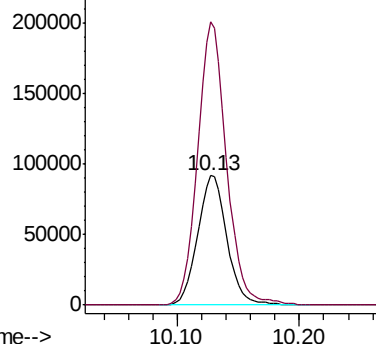
#54
o-Xylene
Concen: 4.472 ug/L
RT: 10.13 min Scan# 2733
Delta R.T. -0.00 min
Lab File: VU036188.D
Acq: 13 Dec 2019 08:06

Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Tgt Ion:106 Resp: 154733
Ion Ratio Lower Upper
106 100
91 218.3 148.5 275.7

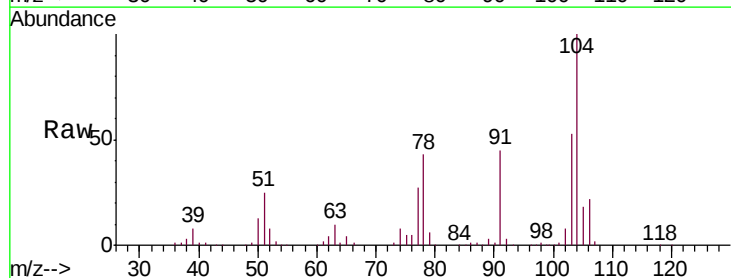


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

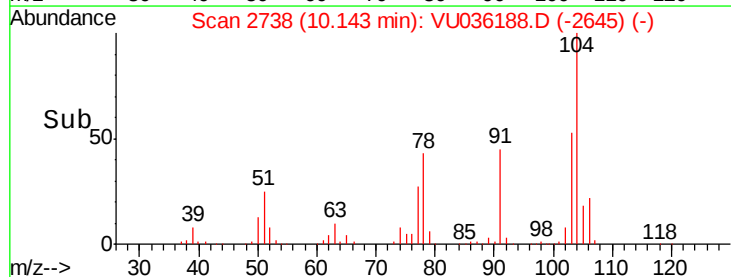
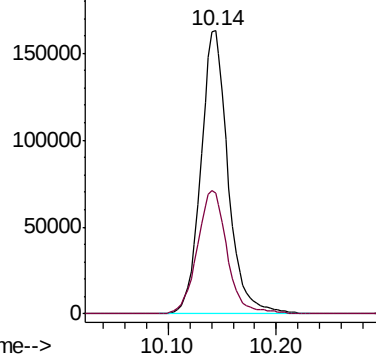


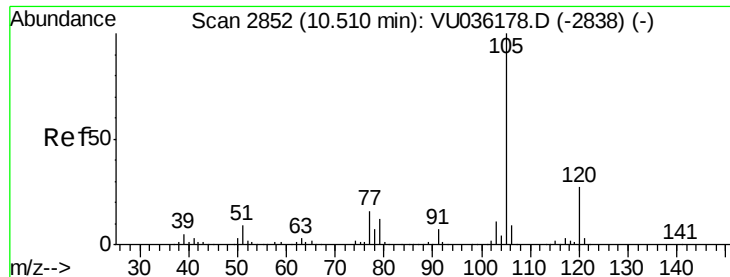
#55
Styrene
Concen: 4.682 ug/L
RT: 10.14 min Scan# 2738
Delta R.T. -0.00 min
Lab File: VU036188.D
Acq: 13 Dec 2019 08:06

Tgt Ion:104 Resp: 287064
Ion Ratio Lower Upper
104 100
78 42.6 30.0 55.8



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





#56

Isopropylbenzene

Concen: 4.538 ug/L

RT: 10.51 min Scan# 2852

Delta R.T. -0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

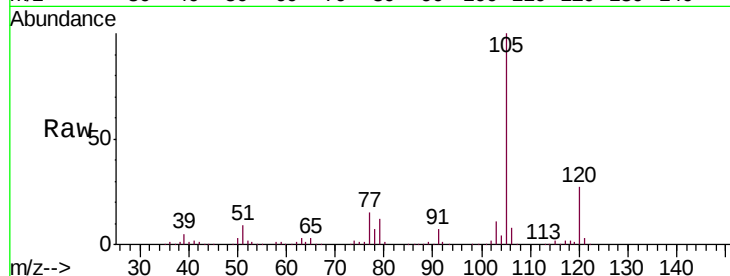
Tgt Ion: 105 Resp: 401209

Ion Ratio Lower Upper

105 100

120 26.7 21.2 31.8

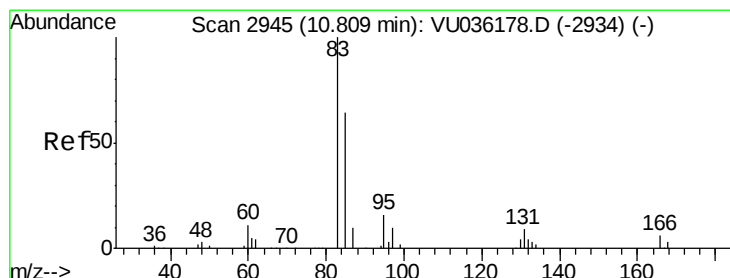
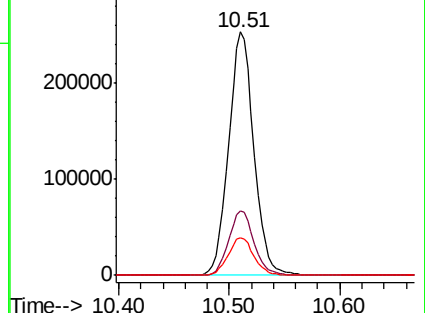
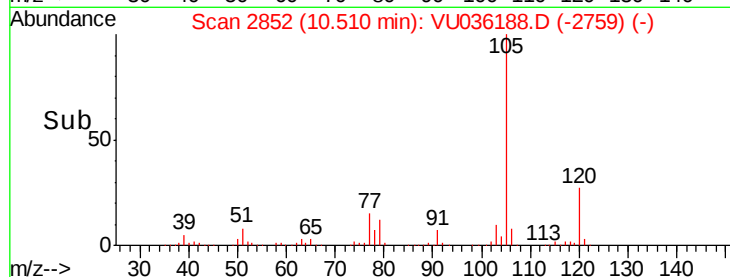
77 15.8 12.6 18.8



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: 3.843 ug/L

RT: 10.81 min Scan# 2945

Delta R.T. -0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

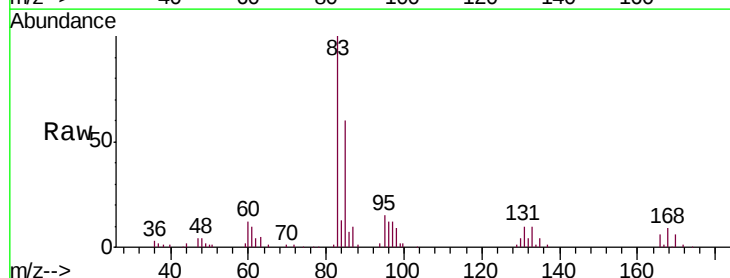
Tgt Ion: 83 Resp: 82284

Ion Ratio Lower Upper

83 100

85 60.2 43.2 80.2

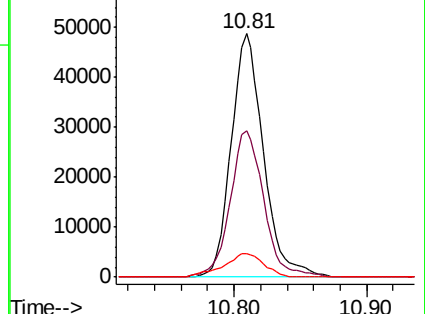
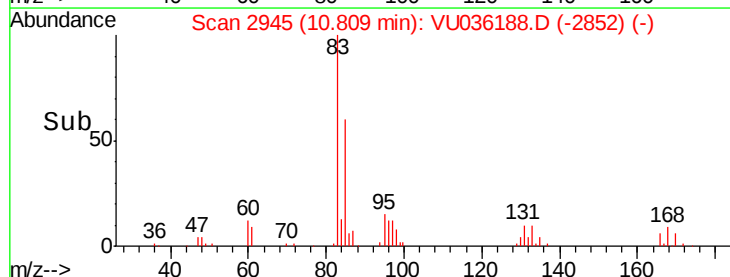
131 9.8 8.6 12.8

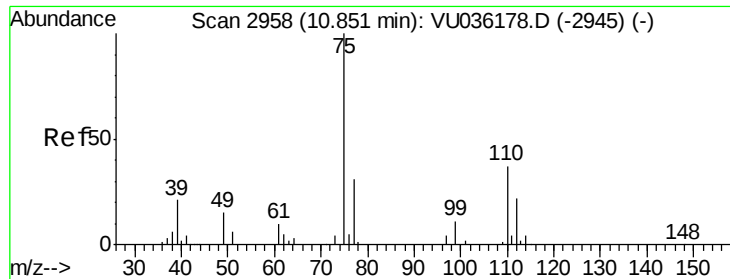


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 4.615 ug/L

RT: 10.85 min Scan# 2958

Delta R.T. -0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

Instrument :

MSVOA_U

ClientSampleId :

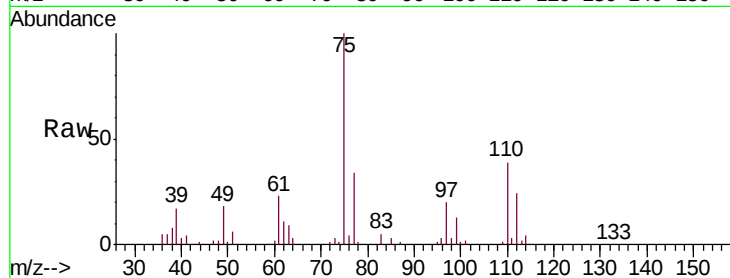
VSTD00512

Tgt Ion: 75 Resp: 70249

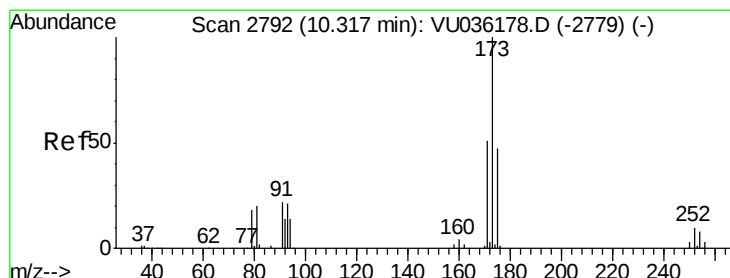
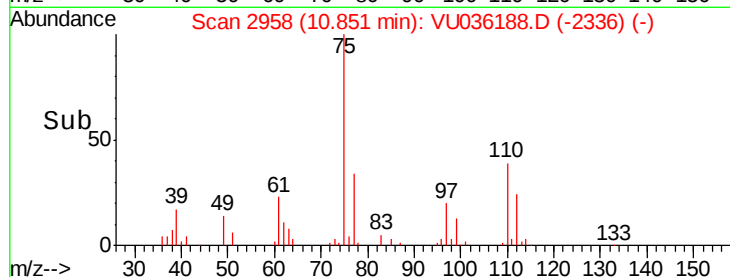
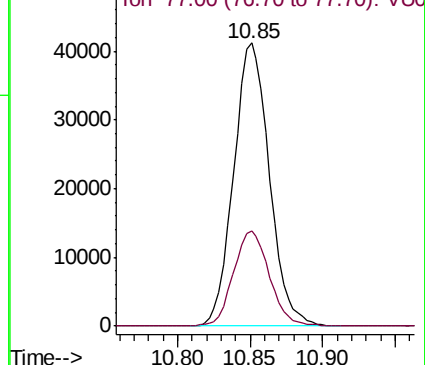
Ion Ratio Lower Upper

75 100

77 33.7 26.6 39.8



Abundance Ion 75.00 (74.70 to 75.70): VU036178.D (-2945) (-)



#61

Bromoform

Concen: 4.357 ug/L

RT: 10.32 min Scan# 2793

Delta R.T. 0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

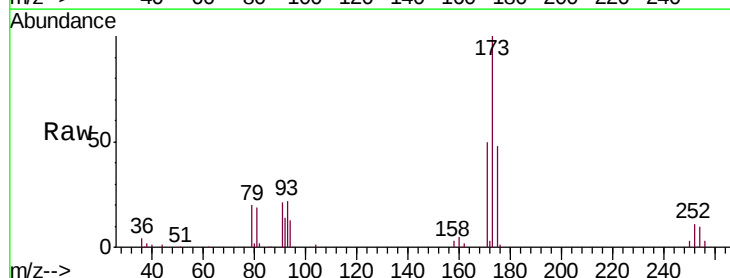
Tgt Ion: 173 Resp: 57100

Ion Ratio Lower Upper

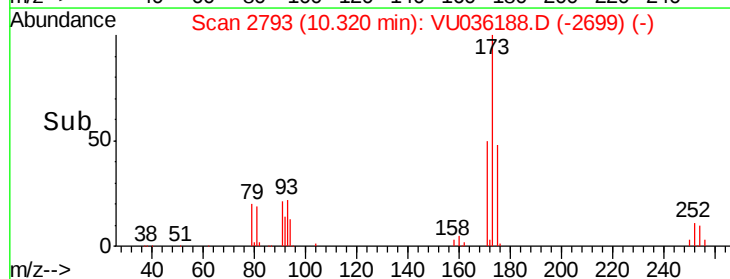
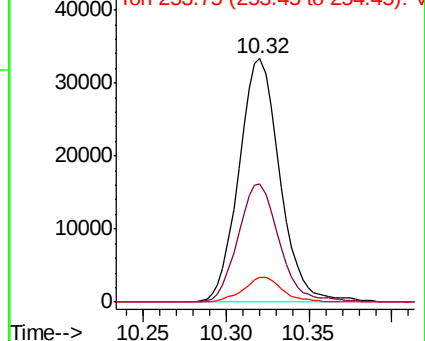
173 100

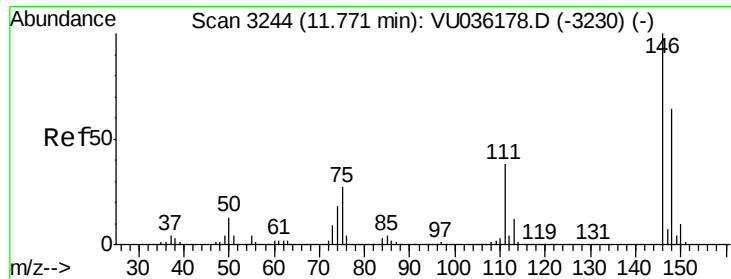
175 48.9 39.1 58.7

254 9.8 8.0 12.0



Abundance Ion 172.90 (172.60 to 173.60): VU036178.D (-2779) (-)





#62

1,3-Dichlorobenzene

Concen: 4.604 ug/L

RT: 11.77 min Scan# 3244

Delta R.T. -0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

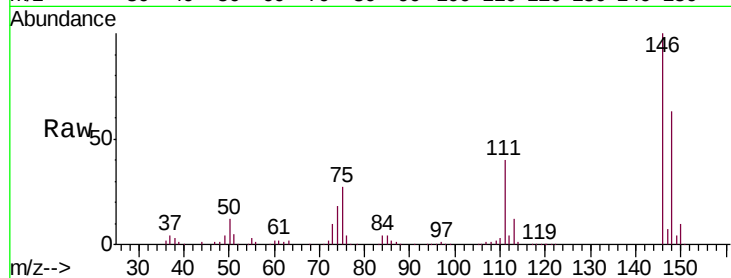
Tgt Ion:146 Resp: 209042

Ion Ratio Lower Upper

146 100

111 39.6 26.2 48.6

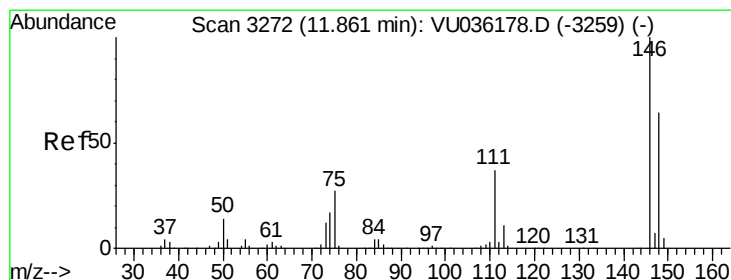
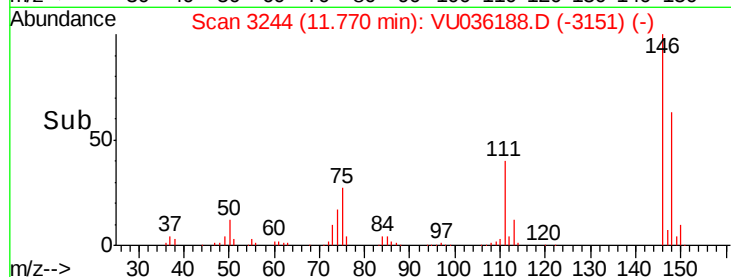
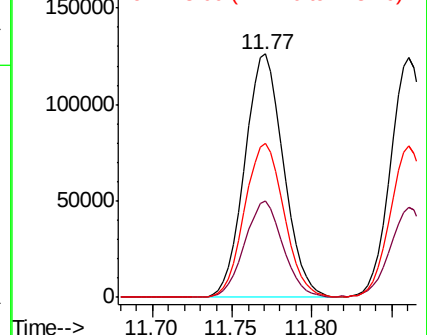
148 63.4 44.2 82.0



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: 4.662 ug/L

RT: 11.86 min Scan# 3272

Delta R.T. -0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

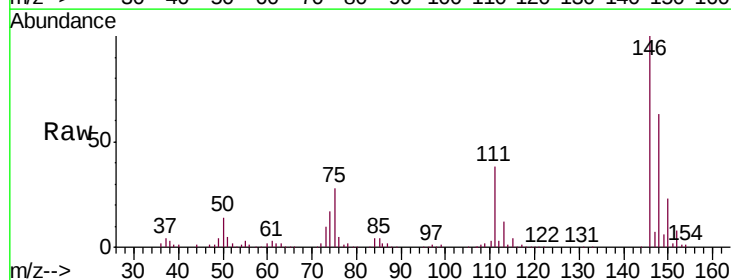
Tgt Ion:146 Resp: 206835

Ion Ratio Lower Upper

146 100

111 37.7 27.5 51.1

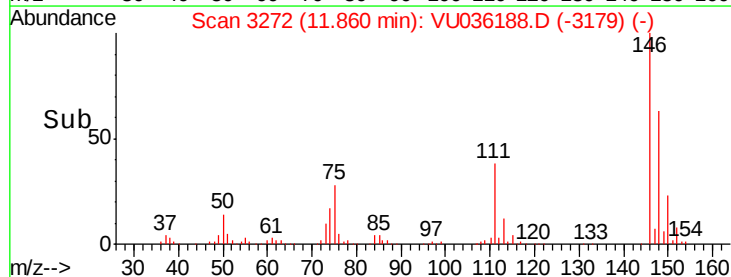
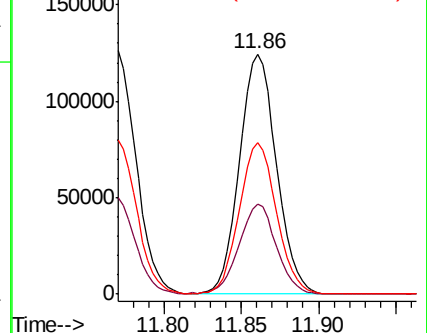
148 62.9 45.4 84.2

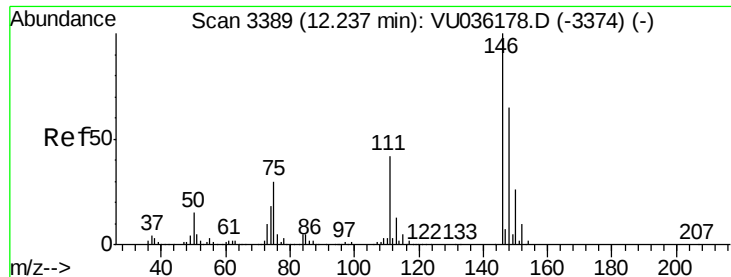


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

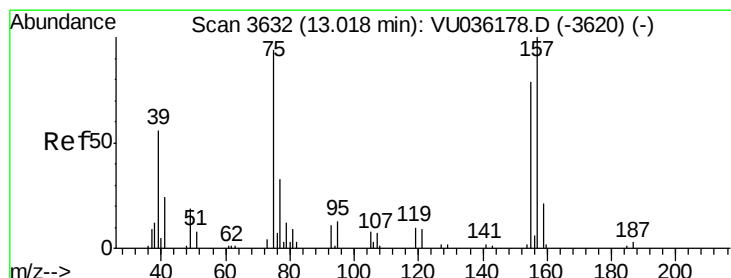
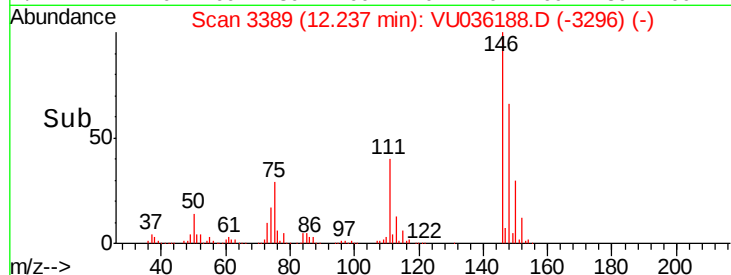
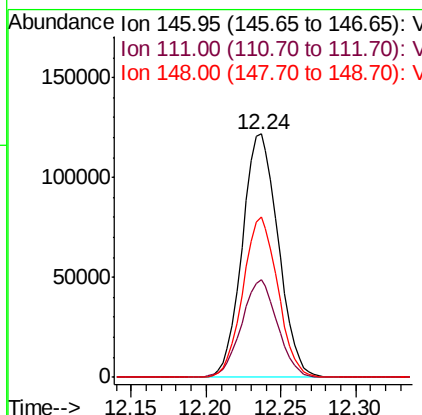
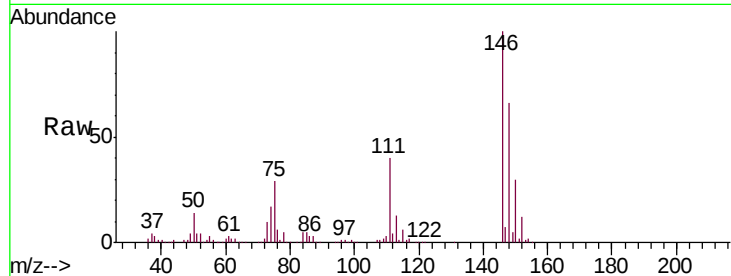




#65
 1,2-Dichlorobenzene
 Concen: 4.684 ug/L
 RT: 12.24 min Scan# 3389
 Delta R.T. -0.00 min
 Lab File: VU036188.D
 Acq: 13 Dec 2019 08:06

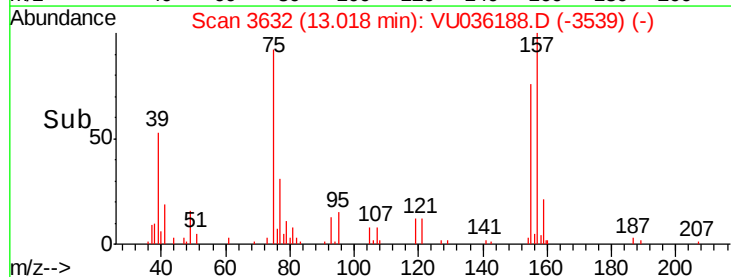
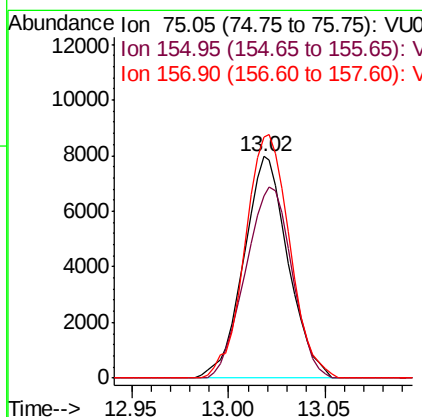
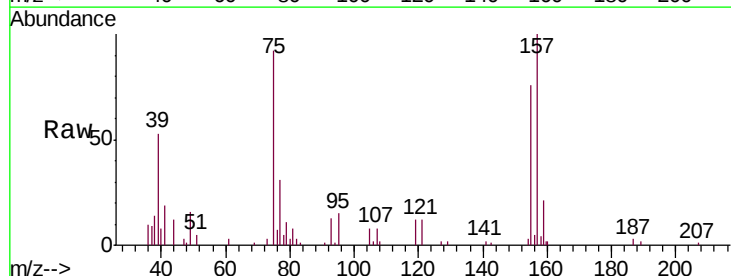
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

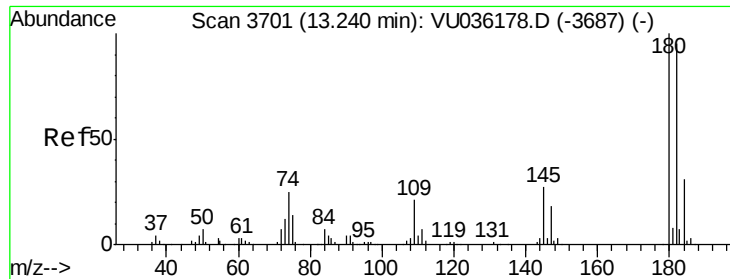
Tgt Ion: 146 Resp: 203940
 Ion Ratio Lower Upper
 146 100
 111 40.0 33.3 49.9
 148 65.8 52.2 78.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.556 ug/L
 RT: 13.02 min Scan# 3632
 Delta R.T. -0.00 min
 Lab File: VU036188.D
 Acq: 13 Dec 2019 08:06

Tgt Ion: 75 Resp: 12665
 Ion Ratio Lower Upper
 75 100
 155 82.4 68.2 102.2
 157 109.1 88.2 132.2

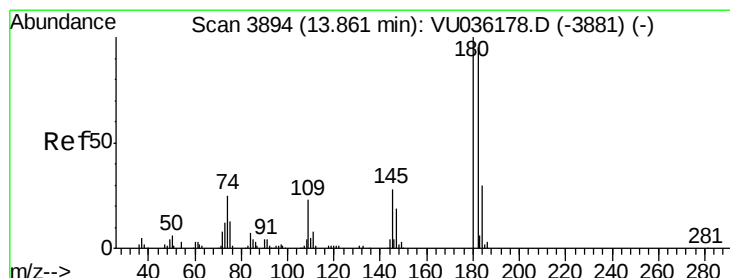
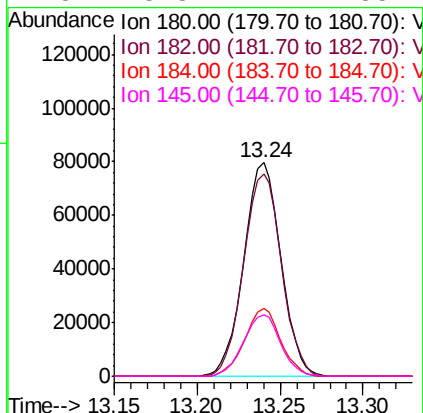
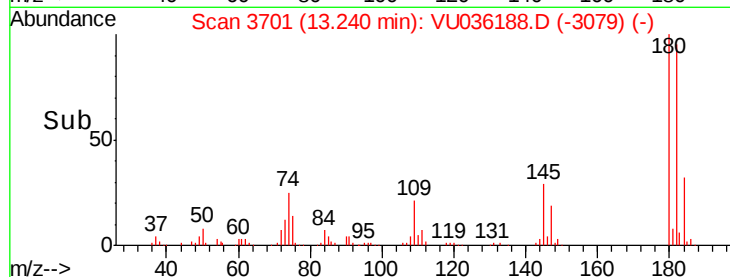
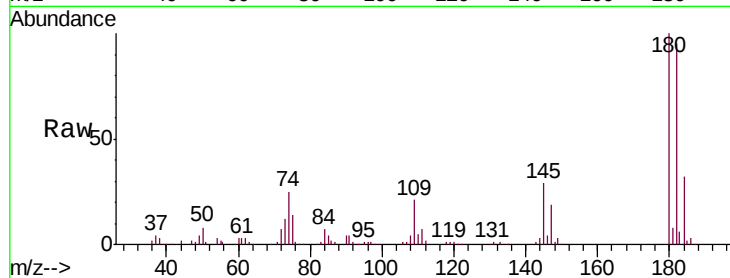




#67
 1,3,5-Trichlorobenzene
 Concen: 4.216 ug/L
 RT: 13.24 min Scan# 3701
 Delta R.T. -0.00 min
 Lab File: VU036188.D
 Acq: 13 Dec 2019 08:06

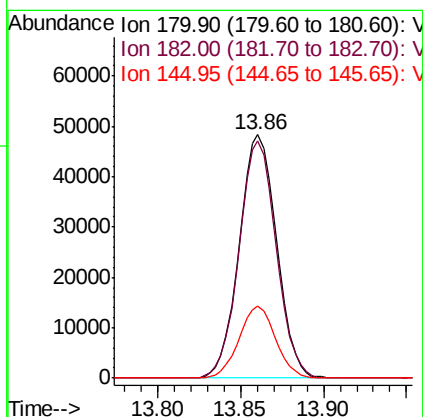
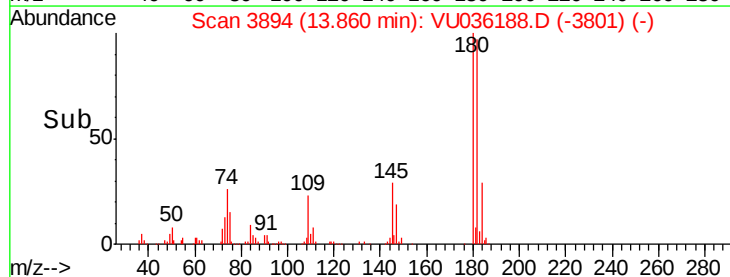
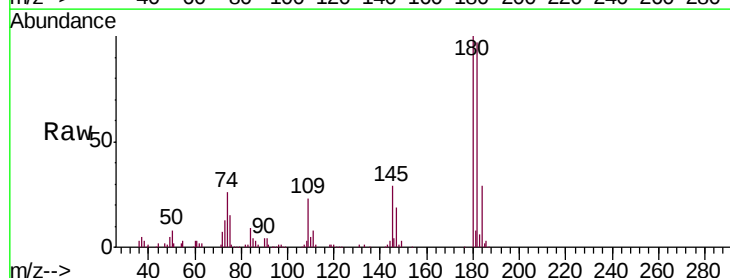
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

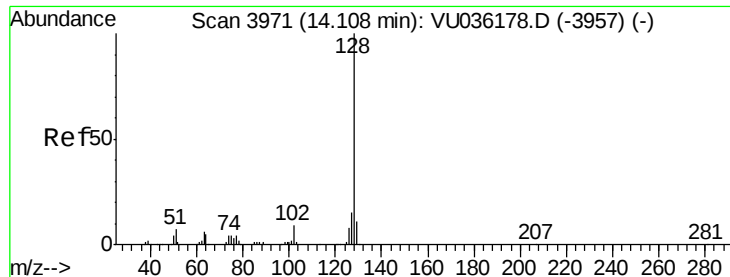
Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.5	76.2	114.4
184	30.8	24.1	36.1
145	28.8	22.1	33.1



#68
 1,2,4-trichlorobenzene
 Concen: 4.910 ug/L
 RT: 13.86 min Scan# 3894
 Delta R.T. -0.00 min
 Lab File: VU036188.D
 Acq: 13 Dec 2019 08:06

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.7	75.0	112.6
145	29.0	21.8	32.6





#69

Naphthalene

Concen: 6.232 ug/L

RT: 14.11 min Scan# 3971

Delta R.T. -0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

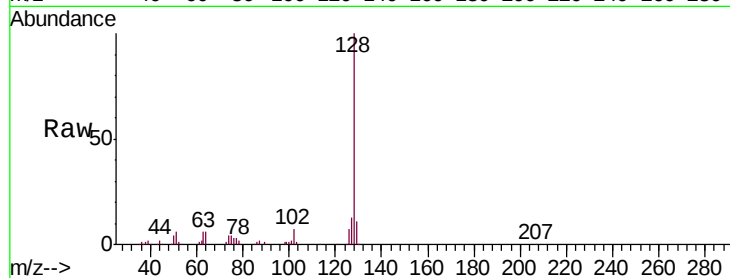
Tgt Ion:128 Resp: 98844

Ion Ratio Lower Upper

128 100

129 11.2 8.8 13.2

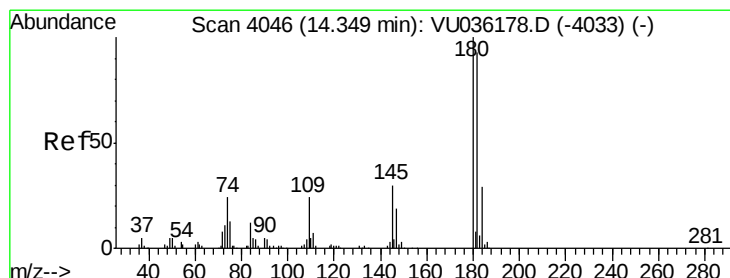
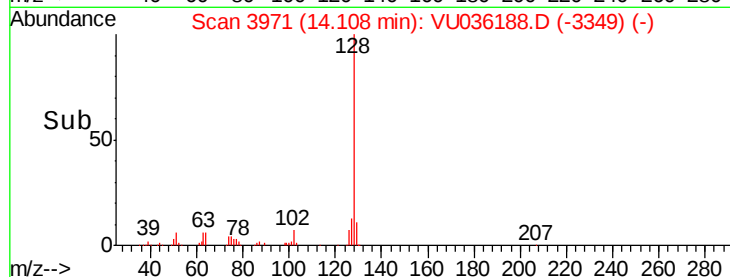
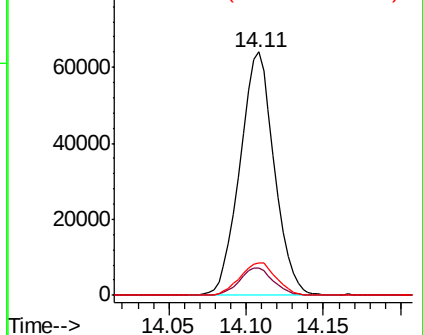
127 14.0 11.3 16.9



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: 5.544 ug/L

RT: 14.35 min Scan# 4046

Delta R.T. -0.00 min

Lab File: VU036188.D

Acq: 13 Dec 2019 08:06

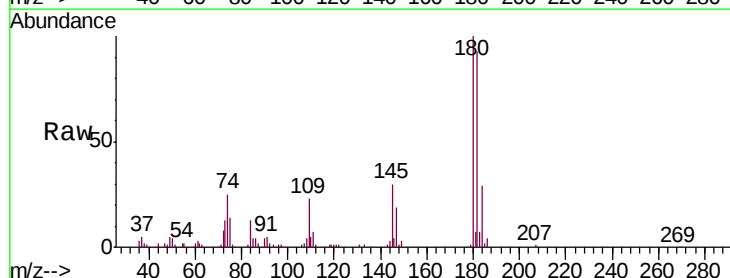
Tgt Ion:180 Resp: 79621

Ion Ratio Lower Upper

180 100

182 95.1 74.8 112.2

145 30.3 24.1 36.1



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

