

Data File : VU033903.D
Acq On : 22 Aug 2019 16:24
Operator : JC/SP
Sample : VSTD20033
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD20033

Quant Time: Aug 23 01:58:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM082219WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 23 01:53:40 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	635198	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	637914	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	341890	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	1071464	186.73	ug/L	0.00
7) Chloroethane-d5	1.65	69	816049	155.54	ug/L	-0.02
11) 1,1-Dichloroethene-d2	2.25	63	1920909	197.08	ug/L	0.00
21) 2-Butanone-d5	4.14	46	1683387	532.11	ug/L	0.00
24) Chloroform-d	4.61	84	1756292	189.56	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.28	65	1119300	192.03	ug/L	0.00
32) Benzene-d6	5.31	84	3579947	198.74	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	1166334	198.73	ug/L	0.00
41) Toluene-d8	7.54	98	3311448	198.94	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.83	79	589852	216.30	ug/L	0.00
47) 2-Hexanone-d5	8.29	63	1260496	565.88	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	1662633	204.54	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	1347984	196.07	ug/L	0.00

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.19	85	1079603	173.672	ug/L	99
3) Chloromethane	1.32	50	1061622	167.214	ug/L	99
5) Vinyl chloride	1.39	62	1219451	171.946	ug/L	98
6) Bromomethane	1.59	94	483921	99.204	ug/L	98
8) Chloroethane	1.67	64	702909	144.194	ug/L	99
9) Trichlorofluoromethane	1.86	101	1406398	151.404	ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.26	101	797445	174.342	ug/L	99
12) 1,1-Dichloroethene	2.26	96	785065	178.117	ug/L	91
13) Acetone	2.30	43	1188078	384.708	ug/L	100
14) Carbon disulfide	2.45	76	2476846	178.114	ug/L	100
15) Methyl Acetate	2.59	43	1136815	222.528	ug/L	99
16) Methylene chloride	2.68	84	937088	181.725	ug/L	99
17) trans-1,2-Dichloroethene	2.95	96	863670	186.898	ug/L	98
18) Methyl tert-butyl Ether	2.97	73	2805034	206.893	ug/L	99
19) 1,1-Dichloroethane	3.41	63	1699201	189.571	ug/L	99
20) cis-1,2-Dichloroethene	4.19	96	992931	198.502	ug/L	97
22) 2-Butanone	4.23	43	1748256	486.040	ug/L	100
23) Bromochloromethane	4.51	128	488678	180.917	ug/L	98
25) Chloroform	4.64	83	1643432	177.752	ug/L	98
27) 1,2-Dichloroethane	5.38	62	1309054	186.032	ug/L	100
29) Cyclohexane	4.96	56	1535367	219.525	ug/L	99
30) 1,1,1-Trichloroethane	4.88	97	1369187	177.784	ug/L	99
31) Carbon tetrachloride	5.11	117	1227017	175.465	ug/L	100
33) Benzene	5.36	78	3634491	186.597	ug/L	100
34) Trichloroethene	6.16	95	938172	182.089	ug/L	98
35) Methylcyclohexane	6.39	83	1548108	203.065	ug/L	98
37) 1,2-Dichloropropane	6.41	63	995088	186.936	ug/L	99
38) Bromodichloromethane	6.73	83	1296618	188.048	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	1662450	213.146	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	3168772	487.104	ug/L	99

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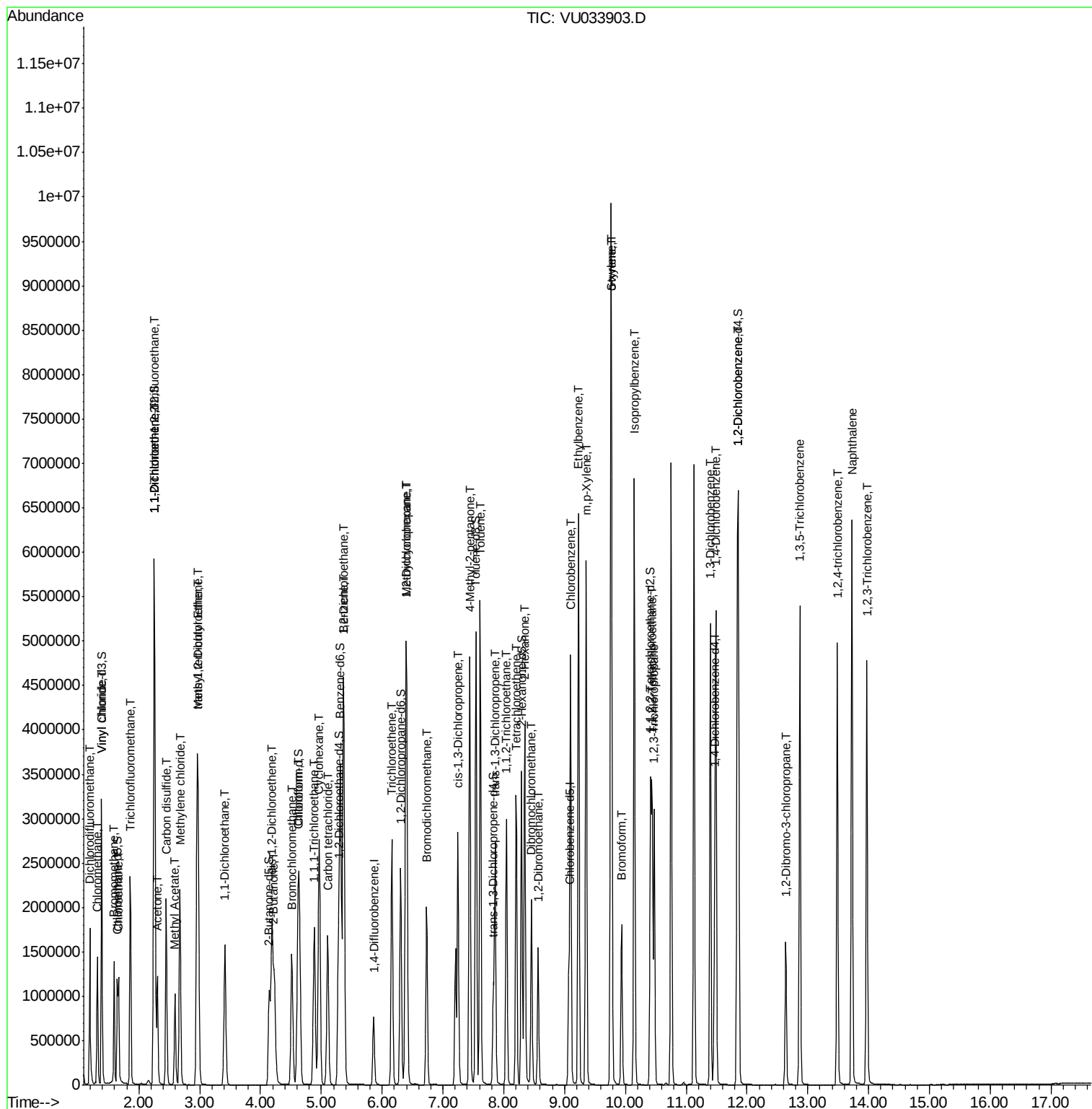
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.61	91	3863511	188.841	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	1482628	207.414	ug/L	100
45) 1,1,2-Trichloroethane	8.04	97	910717	182.506	ug/L	98
46) Tetrachloroethene	8.21	164	728967	176.977	ug/L	98
48) 2-Hexanone	8.34	43	2499990	492.128	ug/L	99
49) Dibromochloromethane	8.46	129	1039600	185.935	ug/L	100
50) 1,2-Dibromoethane	8.57	107	1007991	190.624	ug/L	98
51) Chlorobenzene	9.10	112	2505116	185.500	ug/L	99
52) Ethylbenzene	9.23	91	4403757	202.425	ug/L	100
53) m,p-Xylene	9.36	106	1648476	203.101	ug/L	99
54) o-xylene	9.76	106	1633778	207.252	ug/L	99
55) Styrene	9.77	104	2825975	209.530	ug/L	98
56) Isopropylbenzene	10.15	105	4305915	209.048	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	1614983	198.198	ug/L	98
59) 1,2,3-Trichloropropane	10.48	75	1275856	196.214	ug/L	100
61) Bromoform	9.94	173	810253	187.944	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	2036005	188.108	ug/L	100
63) 1,4-Dichlorobenzene	11.49	146	2057414	183.648	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	2025300	186.883	ug/L	100
66) 1,2-Dibromo-3-chloropropan	12.64	75	403377	217.960	ug/L	93
67) 1,3,5-Trichlorobenzene	12.87	180	1665409	199.880	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	1515824	221.492	ug/L	99
69) Naphthalene	13.73	128	4829950	251.305	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	1511462	213.056	ug/L	99

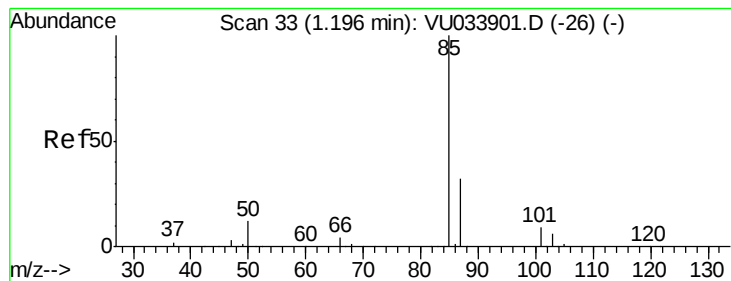
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 173.672 ug/L

RT: 1.19 min Scan# 32

Delta R.T. -0.00 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

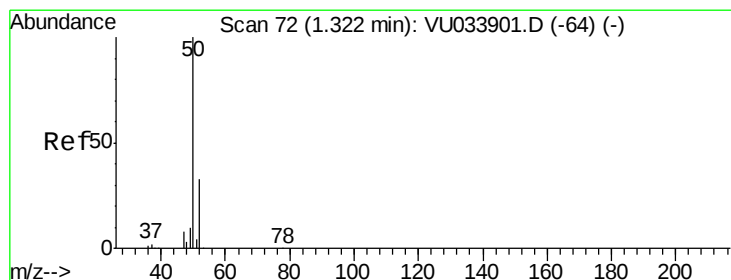
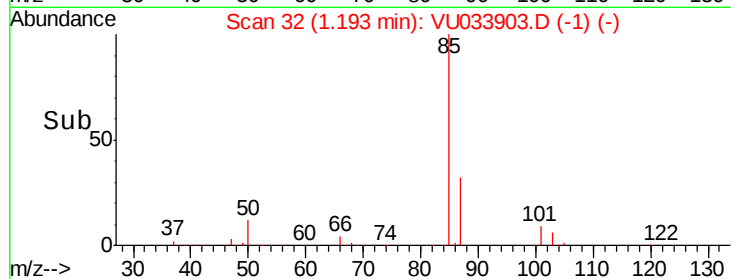
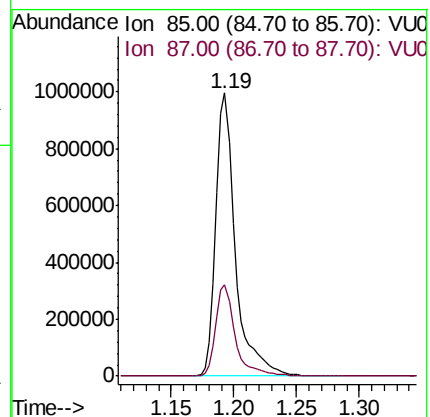
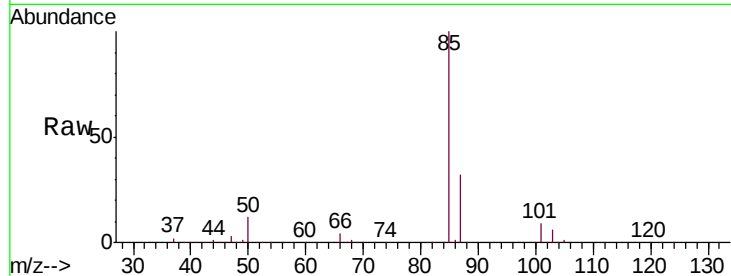
VSTD20033

Tgt Ion: 85 Resp: 1079603

Ion Ratio Lower Upper

85 100

87 32.3 25.6 38.4



#3

Chloromethane

Concen: 167.214 ug/L

RT: 1.32 min Scan# 70

Delta R.T. -0.01 min

Lab File: VU033903.D

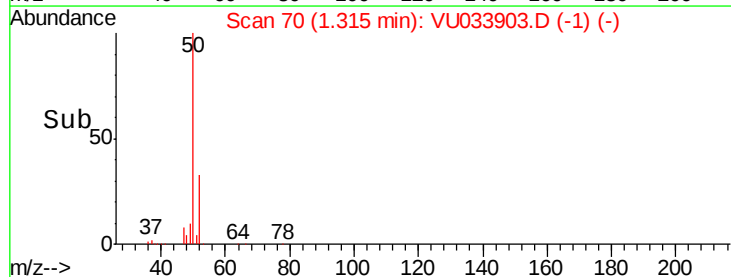
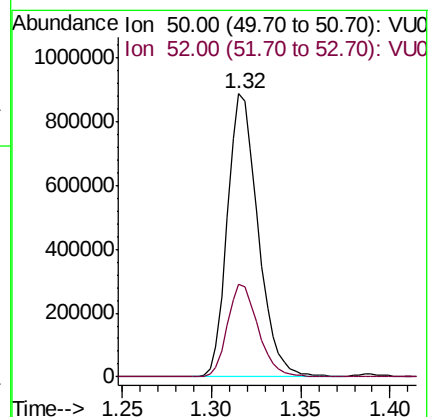
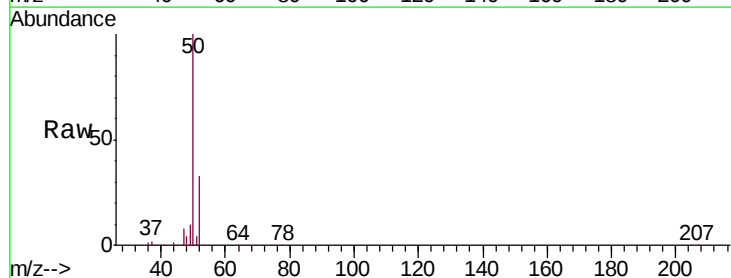
Acq: 22 Aug 2019 16:24

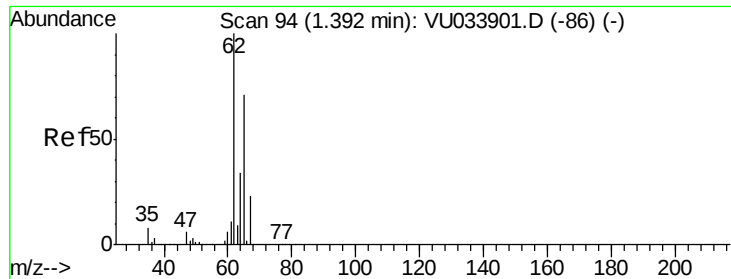
Tgt Ion: 50 Resp: 1061622

Ion Ratio Lower Upper

50 100

52 32.6 23.0 42.8





#5

Vinyl chloride

Concen: 171.946 ug/L

RT: 1.39 min Scan# 93

Delta R.T. -0.00 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

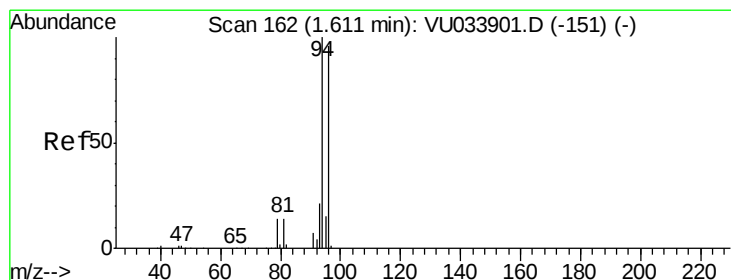
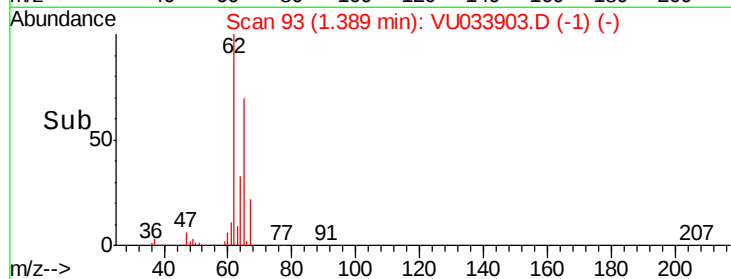
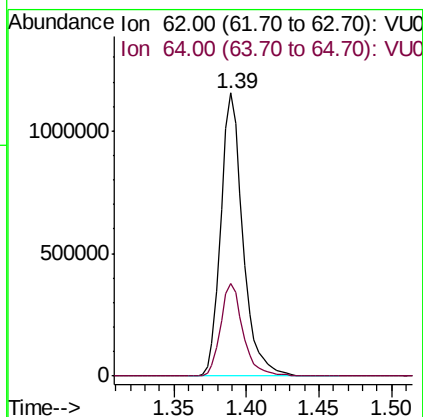
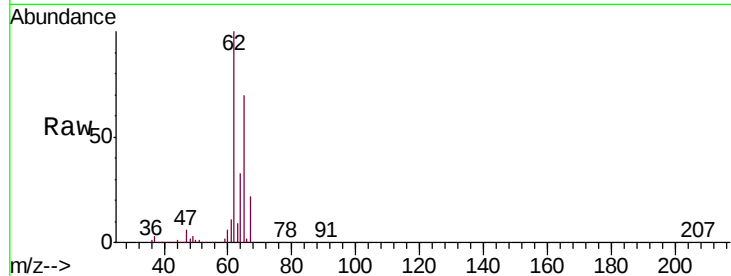
VSTD20033

Tgt Ion: 62 Resp: 1219451

Ion Ratio Lower Upper

62 100

64 33.0 23.7 44.1



#6

Bromomethane

Concen: 99.204 ug/L

RT: 1.59 min Scan# 156

Delta R.T. -0.02 min

Lab File: VU033903.D

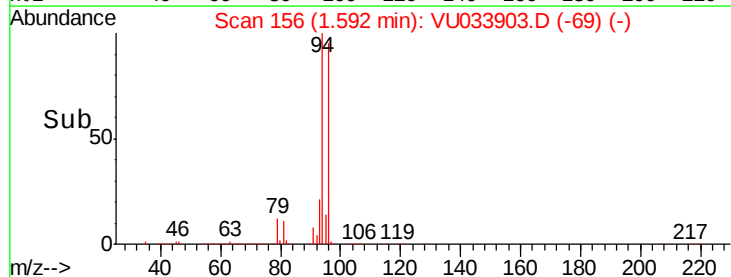
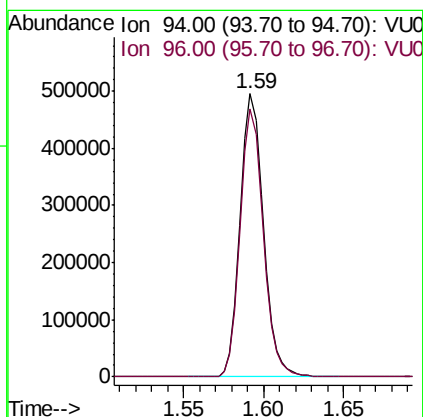
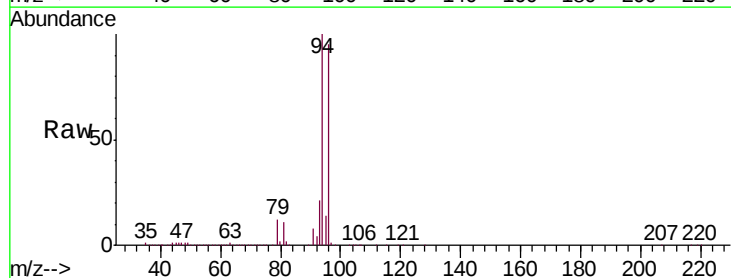
Acq: 22 Aug 2019 16:24

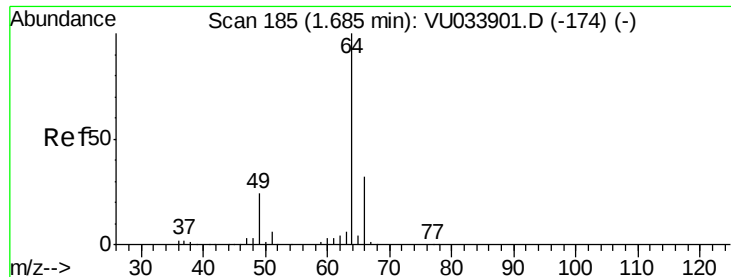
Tgt Ion: 94 Resp: 483921

Ion Ratio Lower Upper

94 100

96 94.6 67.3 124.9





#8

Chloroethane

Concen: 144.194 ug/L

RT: 1.67 min Scan# 179

Delta R.T. -0.02 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

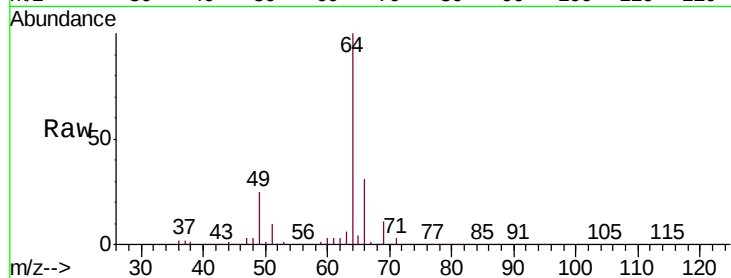
VSTD20033

Tgt Ion: 64 Resp: 702909

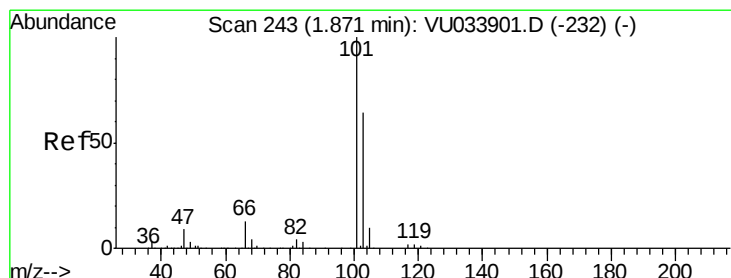
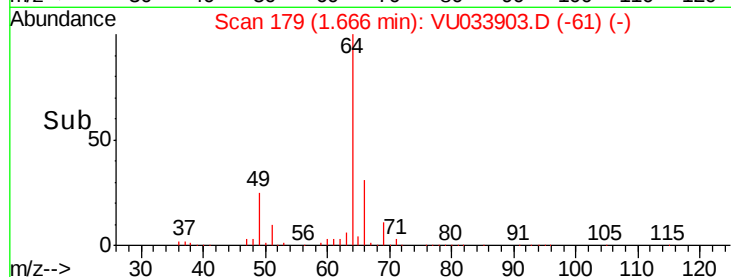
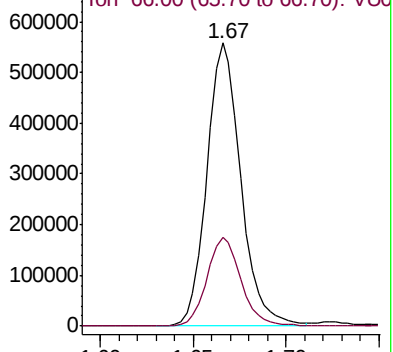
Ion Ratio Lower Upper

64 100

66 31.3 22.3 41.5



Abundance Ion 64.00 (63.70 to 64.70): VU033901.D (-174) (-)



#9

Trichlorofluoromethane

Concen: 151.404 ug/L

RT: 1.86 min Scan# 239

Delta R.T. -0.01 min

Lab File: VU033903.D

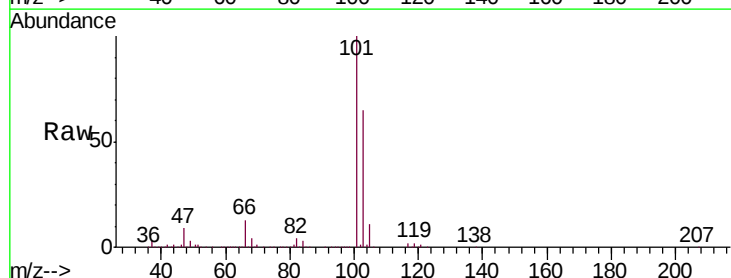
Acq: 22 Aug 2019 16:24

Tgt Ion: 101 Resp: 1406398

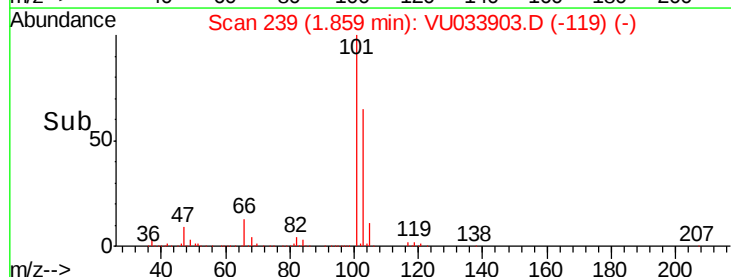
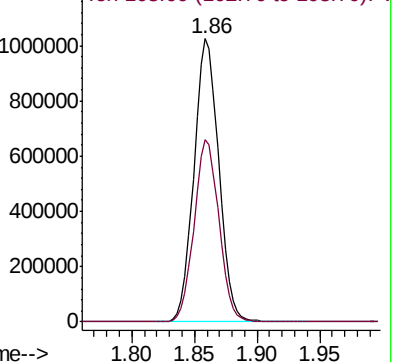
Ion Ratio Lower Upper

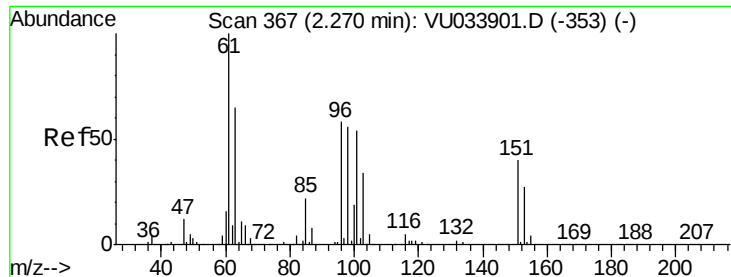
101 100

103 64.6 50.9 76.3



Abundance Ion 101.00 (100.70 to 101.70): VU033901.D (-232) (-)





#10

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

Concen: 174.342 ug/L

RT: 2.26 min Scan# 364

Delta R.T. -0.01 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD20033

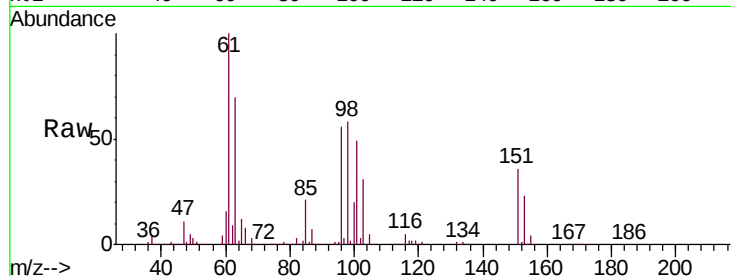
Tgt Ion: 101 Resp: 797445

Ion Ratio Lower Upper

101 100

85 43.0 33.7 50.5

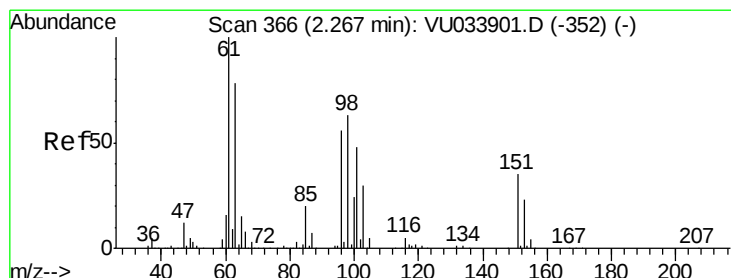
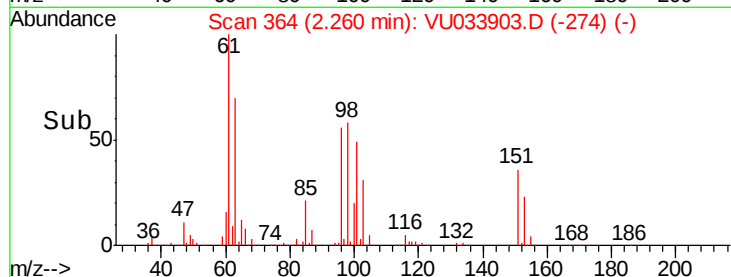
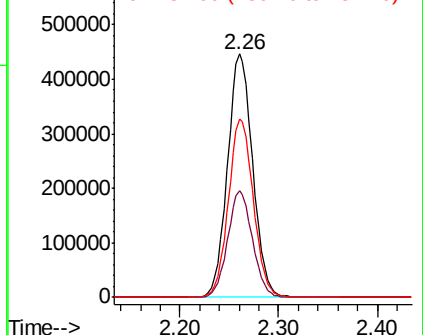
151 72.5 57.8 86.6



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: 178.117 ug/L

RT: 2.26 min Scan# 363

Delta R.T. -0.01 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

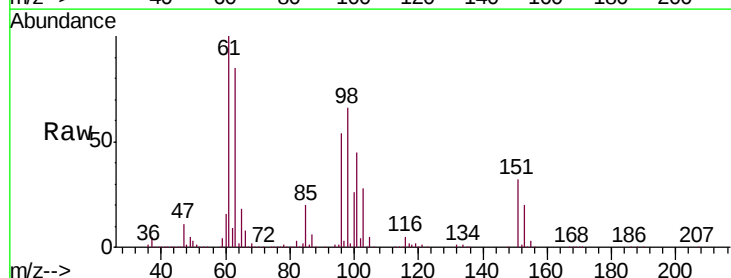
Tgt Ion: 96 Resp: 785065

Ion Ratio Lower Upper

96 100

61 184.5 124.7 231.5

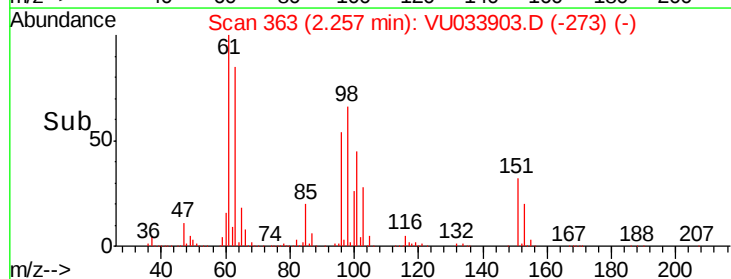
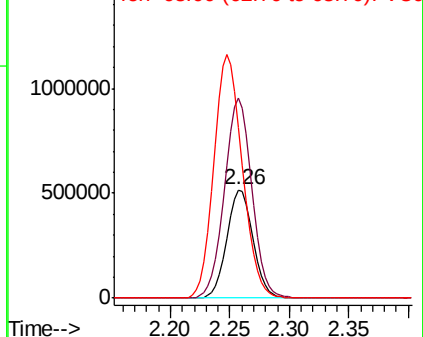
63 157.2 97.9 181.9

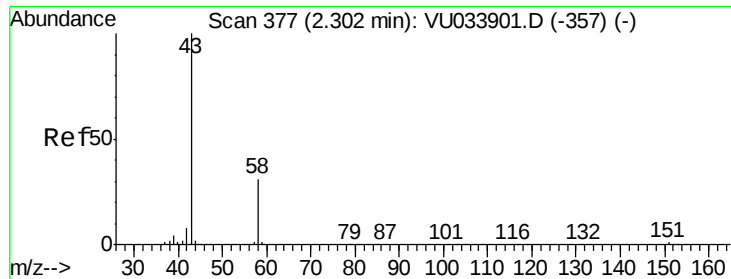


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 384.708 ug/L

RT: 2.30 min Scan# 377

Delta R.T. 0.00 min

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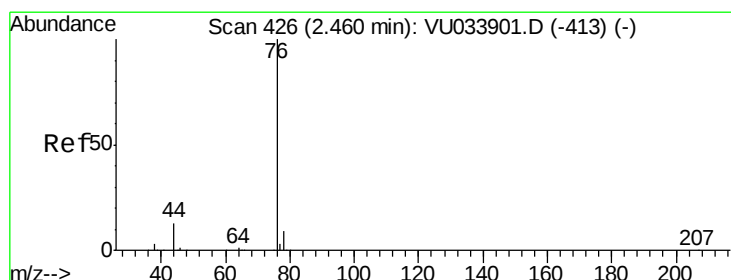
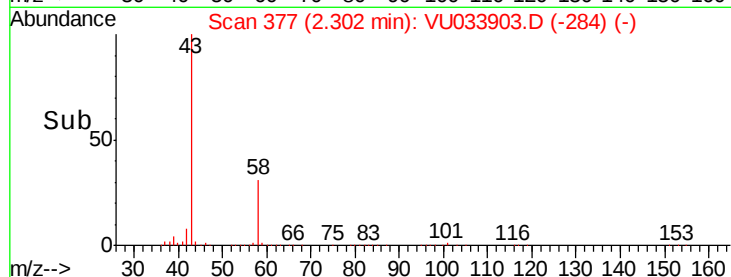
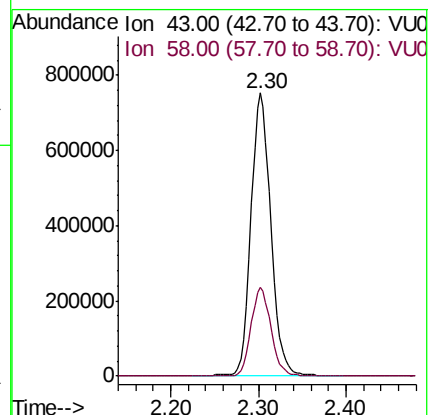
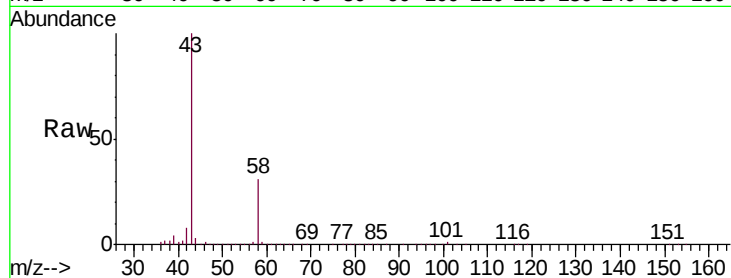
VSTD20033

Tgt Ion: 43 Resp: 1188078

Ion Ratio Lower Upper

43 100

58 31.1 0.0 62.4



#14

Carbon disulfide

Concen: 178.114 ug/L

RT: 2.45 min Scan# 423

Delta R.T. -0.01 min

Lab File: VU033903.D

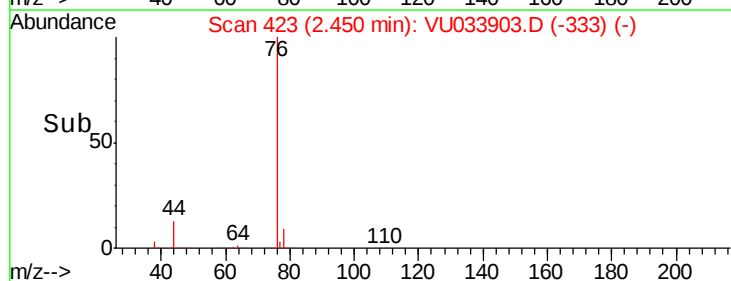
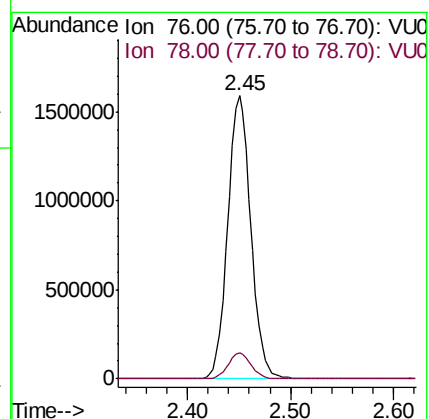
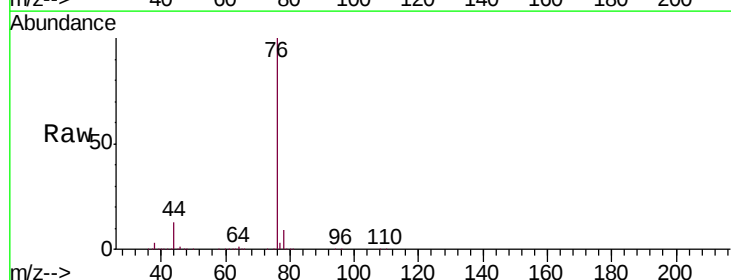
Acq: 22 Aug 2019 16:24

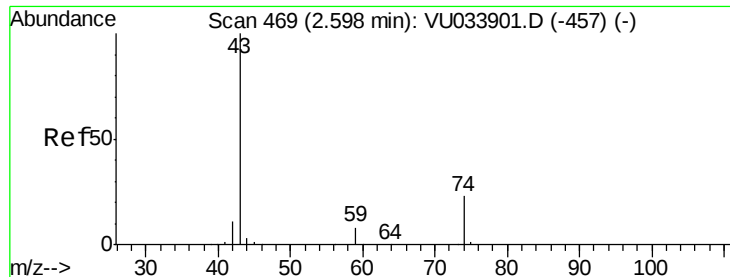
Tgt Ion: 76 Resp: 2476846

Ion Ratio Lower Upper

76 100

78 9.0 7.4 11.0

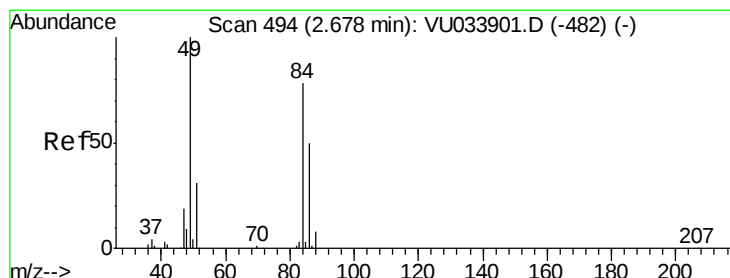
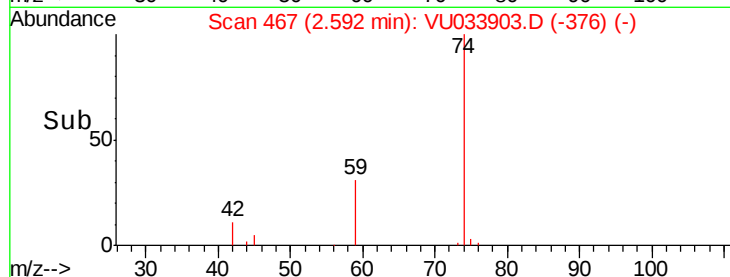
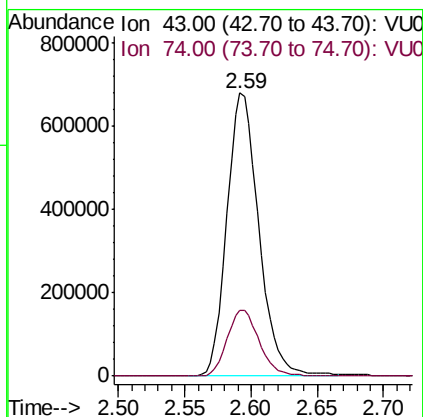
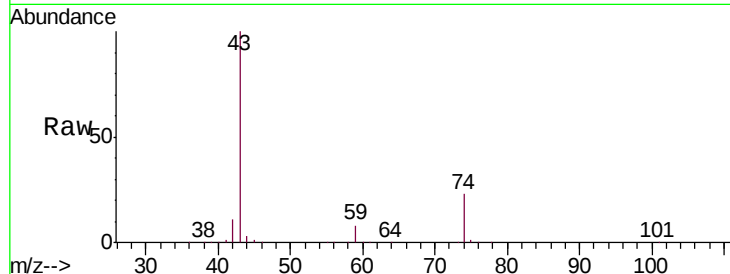




#15
Methyl Acetate
Concen: 222.528 ug/L
RT: 2.59 min Scan# 467
Delta R.T. -0.01 min
Lab File: VU033903.D
Acq: 22 Aug 2019 16:24

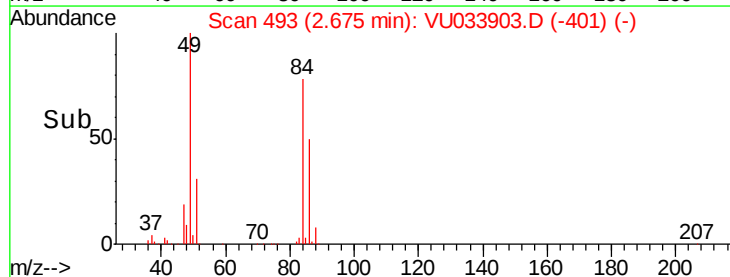
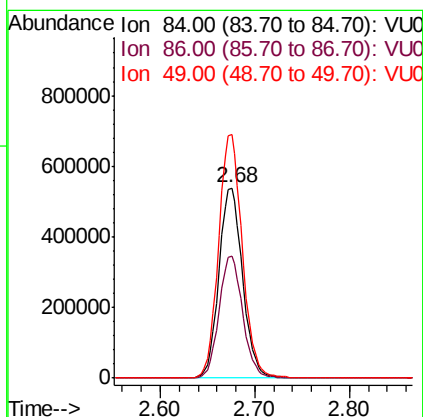
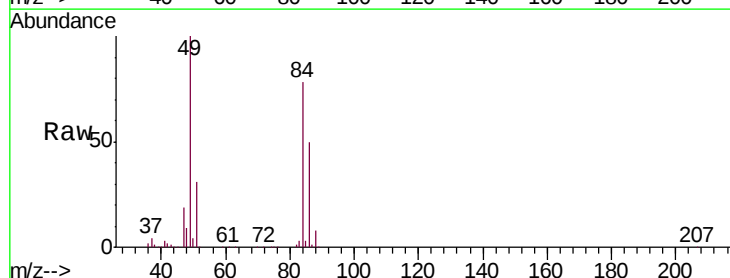
Instrument :
MSVOA_U
ClientSampleId :
VSTD20033

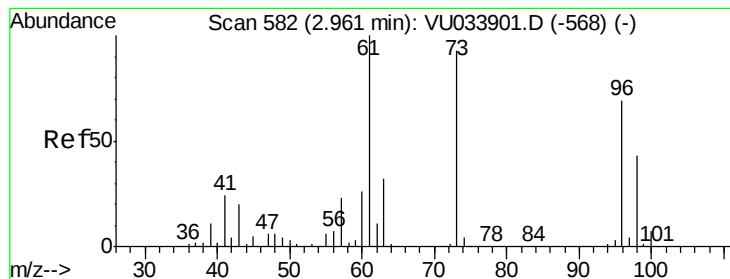
Tgt Ion: 43 Resp: 1136815
Ion Ratio Lower Upper
43 100
74 23.5 18.6 27.8



#16
Methylene chloride
Concen: 181.725 ug/L
RT: 2.68 min Scan# 493
Delta R.T. -0.00 min
Lab File: VU033903.D
Acq: 22 Aug 2019 16:24

Tgt Ion: 84 Resp: 937088
Ion Ratio Lower Upper
84 100
86 64.1 45.3 84.1
49 127.8 90.2 167.6





#17

trans-1,2-Dichloroethene

Concen: 186.898 ug/L

RT: 2.95 min Scan# 580

Delta R.T. -0.01 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD20033

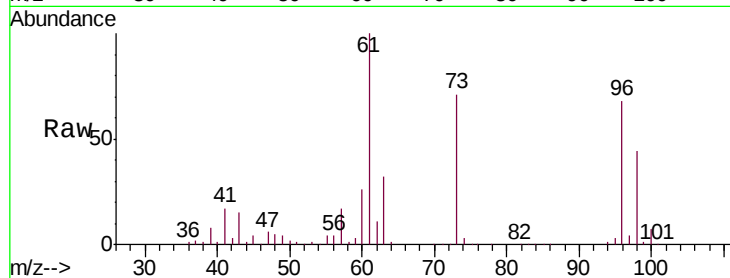
Tgt Ion: 96 Resp: 863670

Ion Ratio Lower Upper

96 100

61 146.6 101.2 187.8

98 65.2 44.0 81.6

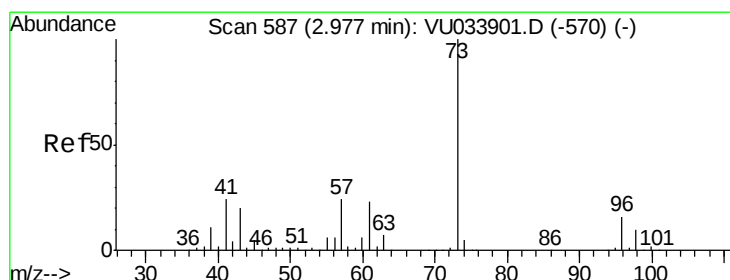
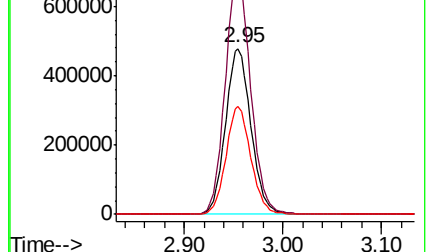
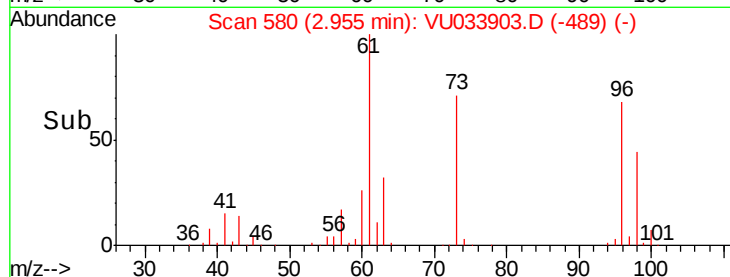


Abundance Ion 96.00 (95.70 to 96.70): VU033901.D (-568) (-)

Ion 61.00 (60.70 to 61.70): VU033901.D (-568) (-)

Ion 98.00 (97.70 to 98.70): VU033901.D (-568) (-)

Time-->



#18

Methyl tert-butyl Ether

Concen: 206.893 ug/L

RT: 2.97 min Scan# 586

Delta R.T. -0.00 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

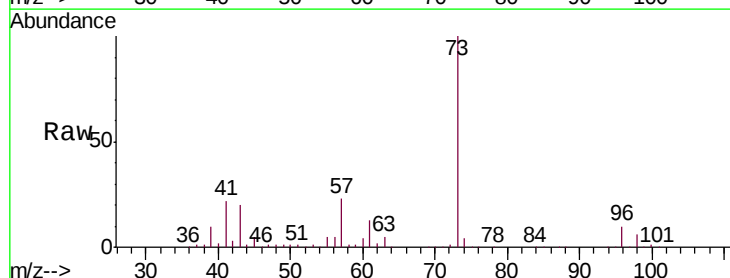
Tgt Ion: 73 Resp: 2805034

Ion Ratio Lower Upper

73 100

43 19.8 16.3 24.5

57 22.8 18.8 28.2

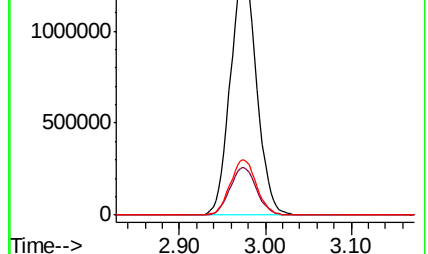
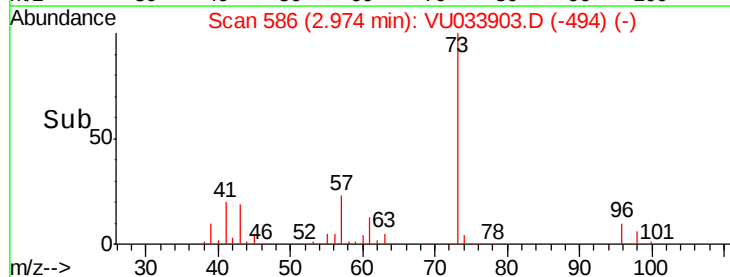


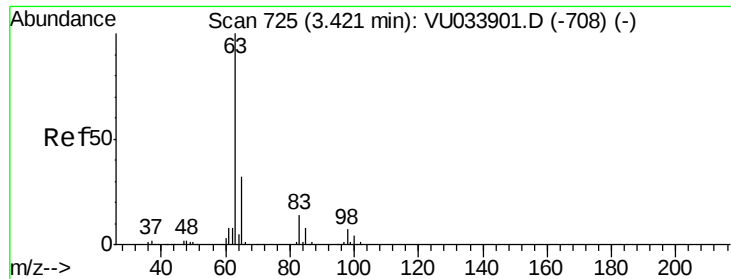
Abundance Ion 73.00 (72.70 to 73.70): VU033901.D (-570) (-)

Ion 43.00 (42.70 to 43.70): VU033901.D (-570) (-)

Ion 57.00 (56.70 to 57.70): VU033901.D (-570) (-)

Time-->

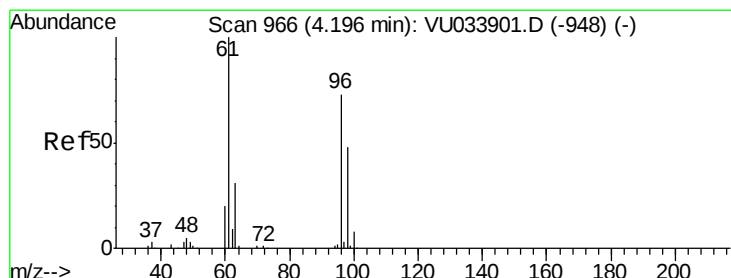
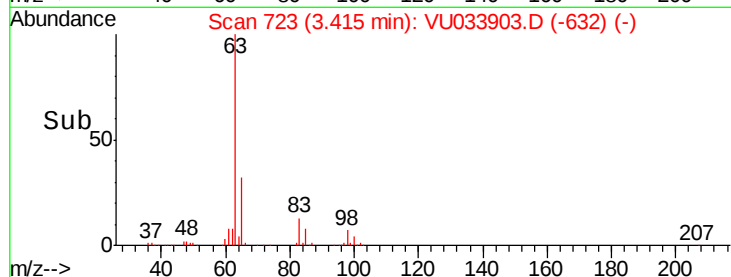
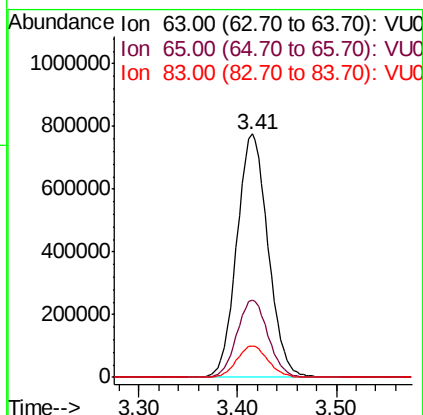
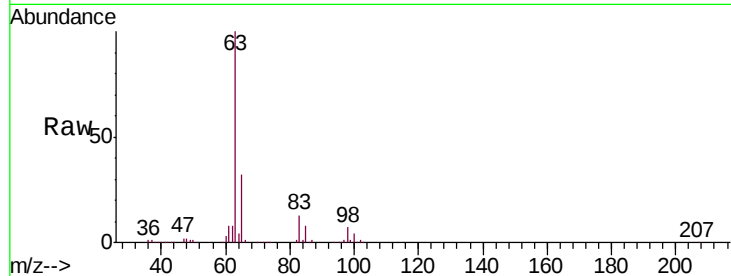




#19
 1,1-Dichloroethane
 Concen: 189.571 ug/L
 RT: 3.41 min Scan# 723
 Delta R.T. -0.01 min
 Lab File: VU033903.D
 Acq: 22 Aug 2019 16:24

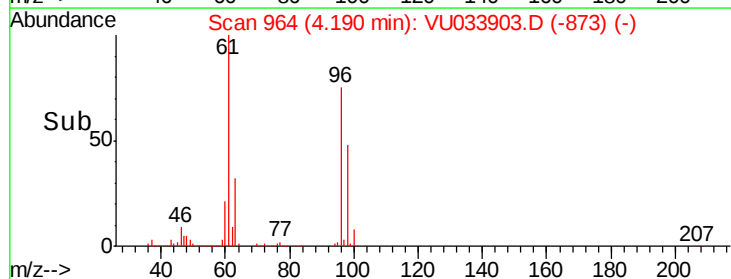
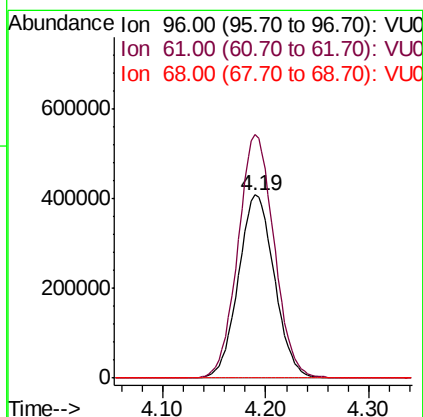
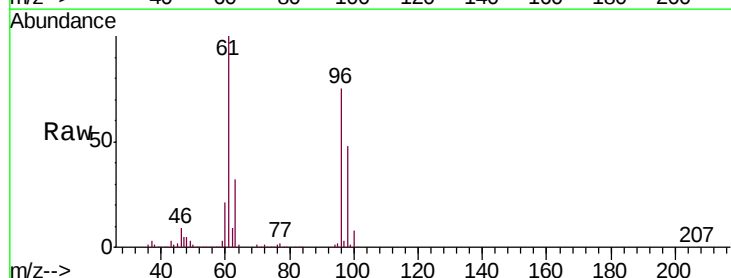
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20033

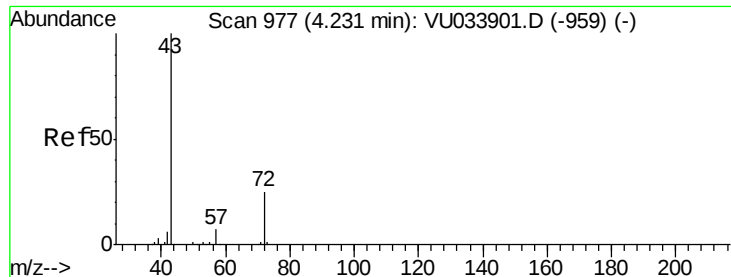
Tgt Ion: 63 Resp: 1699201
 Ion Ratio Lower Upper
 63 100
 65 31.7 22.4 41.6
 83 13.0 9.4 17.6



#20
 cis-1,2-Dichloroethene
 Concen: 198.502 ug/L
 RT: 4.19 min Scan# 964
 Delta R.T. -0.01 min
 Lab File: VU033903.D
 Acq: 22 Aug 2019 16:24

Tgt Ion: 96 Resp: 992931
 Ion Ratio Lower Upper
 96 100
 61 132.8 95.5 177.4
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 486.040 ug/L

RT: 4.23 min Scan# 976

Delta R.T. -0.00 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

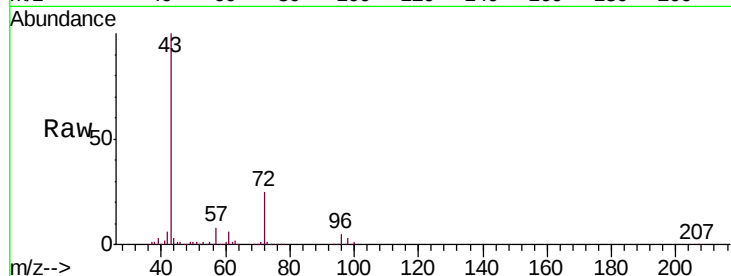
VSTD20033

Tgt Ion: 43 Resp: 1748256

Ion Ratio Lower Upper

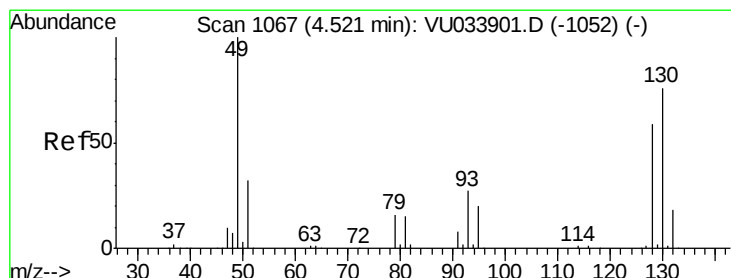
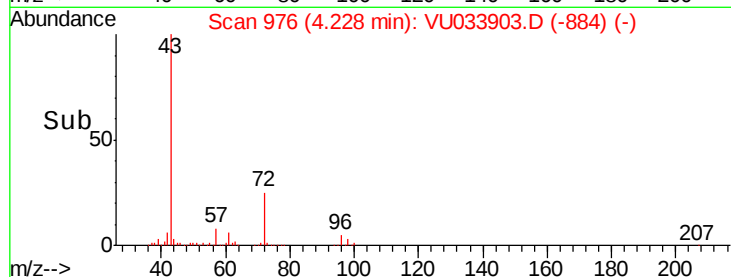
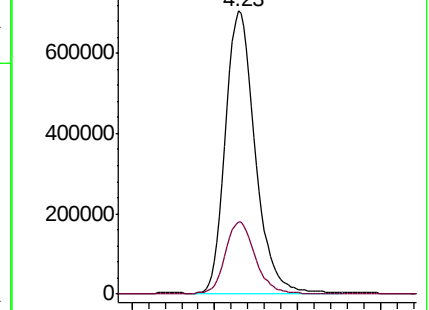
43 100

72 26.1 13.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VU033901.D (-959) (-)

Ion 72.00 (71.70 to 72.70): VU033901.D (-959) (-)



#23

Bromochloromethane

Concen: 180.917 ug/L

RT: 4.51 min Scan# 1065

Delta R.T. -0.01 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

Tgt Ion: 128 Resp: 488678

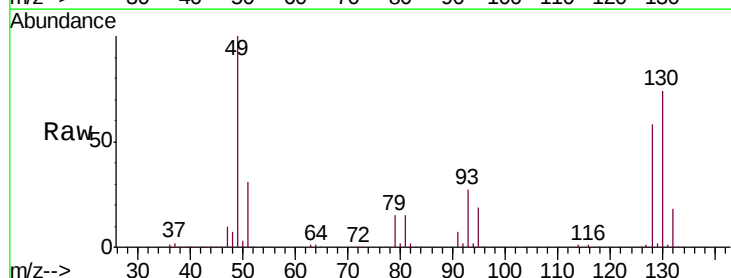
Ion Ratio Lower Upper

128 100

49 173.9 119.4 221.8

130 128.7 90.9 168.7

51 54.6 43.0 64.4

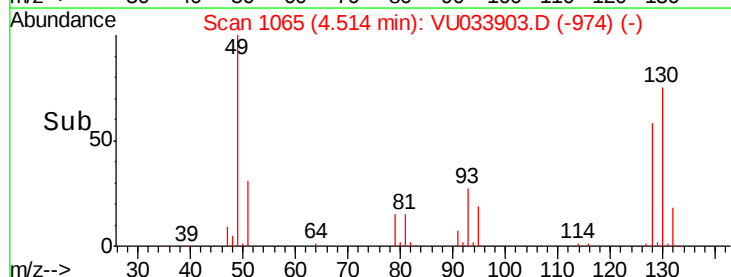
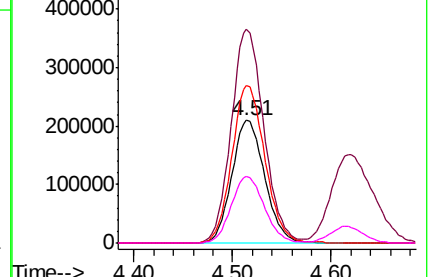


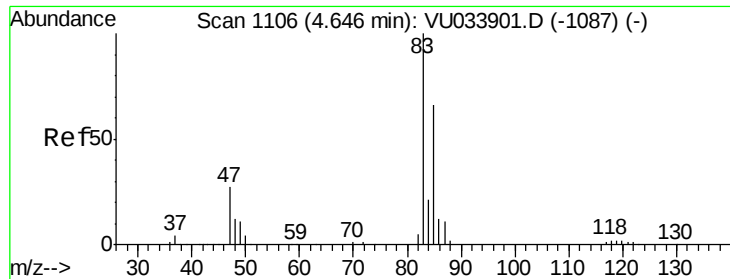
Abundance Ion 128.00 (127.70 to 128.70): VU033901.D (-1052) (-)

Ion 49.00 (48.70 to 49.70): VU033901.D (-1052) (-)

Ion 130.00 (129.70 to 130.70): VU033901.D (-1052) (-)

Ion 51.00 (50.70 to 51.70): VU033901.D (-1052) (-)

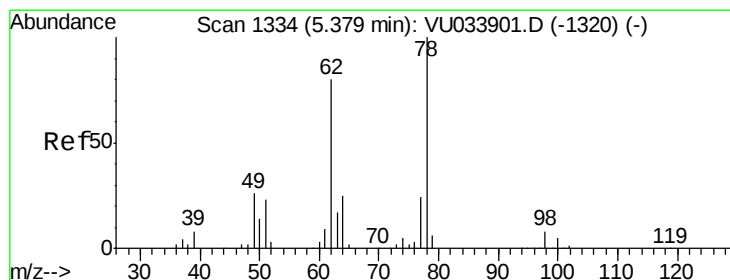
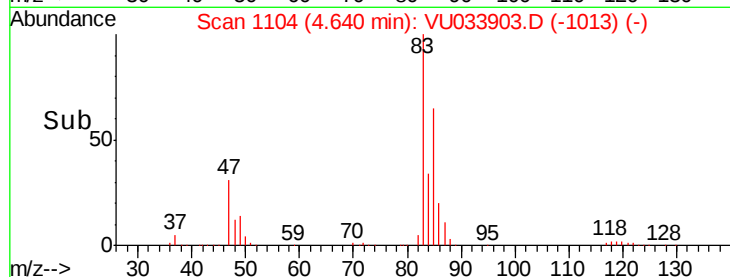
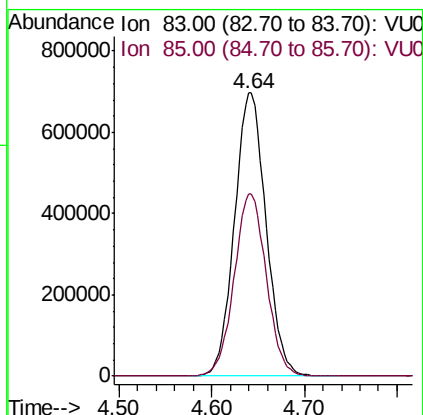
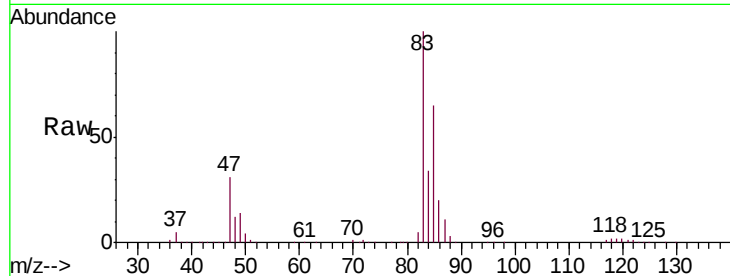




#25
Chloroform
Concen: 177.752 ug/L
RT: 4.64 min Scan# 1104
Delta R.T. -0.01 min
Lab File: VU033903.D
Acq: 22 Aug 2019 16:24

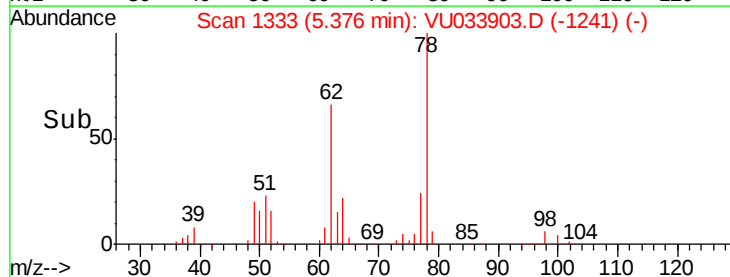
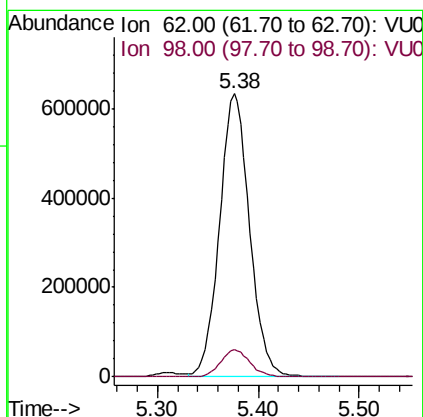
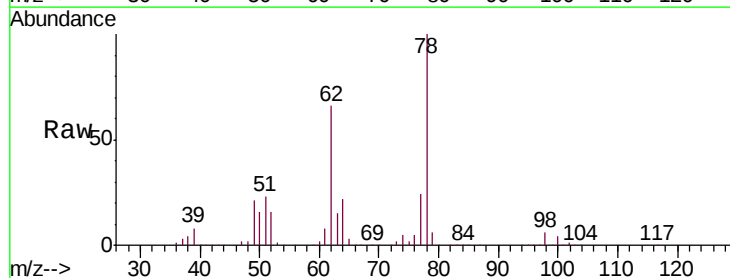
Instrument :
MSVOA_U
ClientSampleId :
VSTD20033

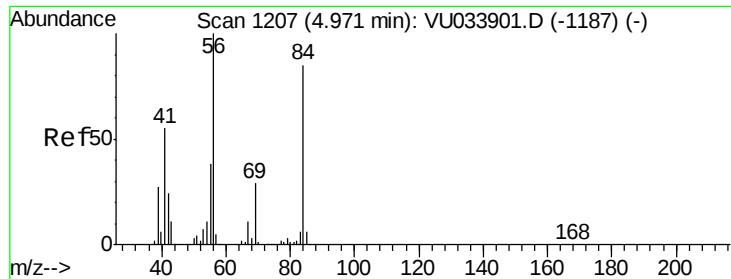
Tgt Ion: 83 Resp: 1643432
Ion Ratio Lower Upper
83 100
85 64.6 46.2 85.8



#27
1,2-Dichloroethane
Concen: 186.032 ug/L
RT: 5.38 min Scan# 1333
Delta R.T. -0.00 min
Lab File: VU033903.D
Acq: 22 Aug 2019 16:24

Tgt Ion: 62 Resp: 1309054
Ion Ratio Lower Upper
62 100
98 9.5 7.5 11.3

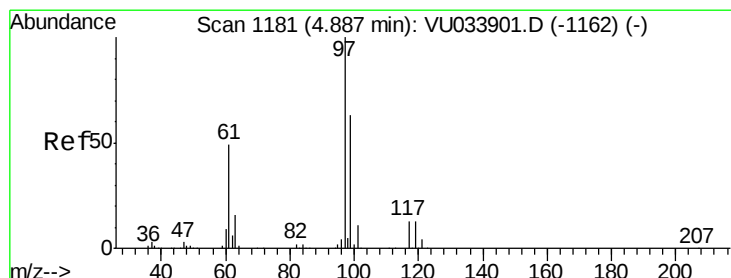
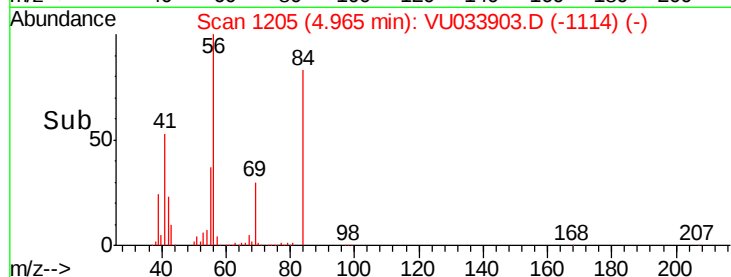
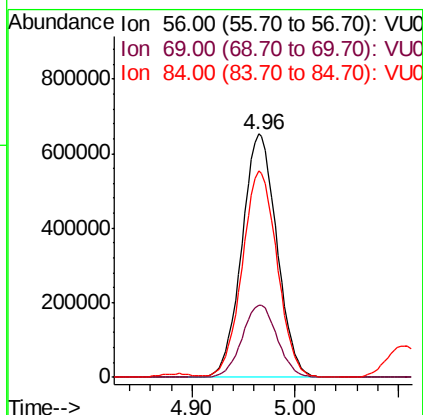
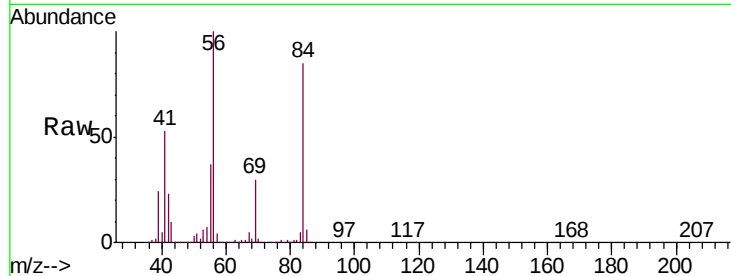




#29
Cyclohexane
Concen: 219.525 ug/L
RT: 4.96 min Scan# 1205
Delta R.T. -0.01 min
Lab File: VU033903.D
Acq: 22 Aug 2019 16:24

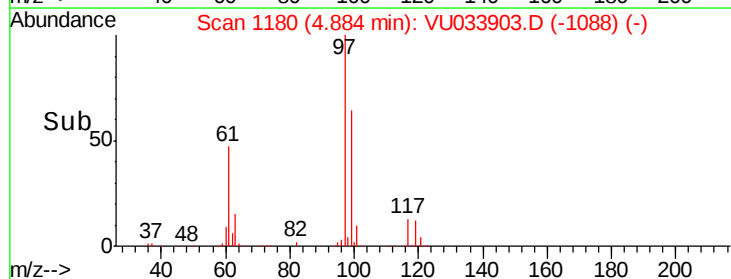
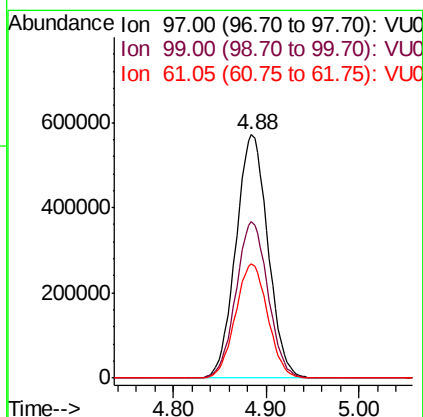
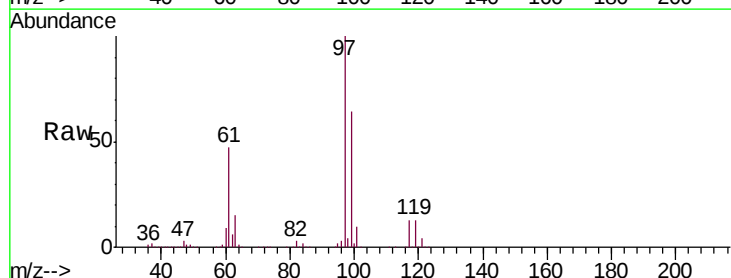
Instrument :
MSVOA_U
ClientSampleId :
VSTD20033

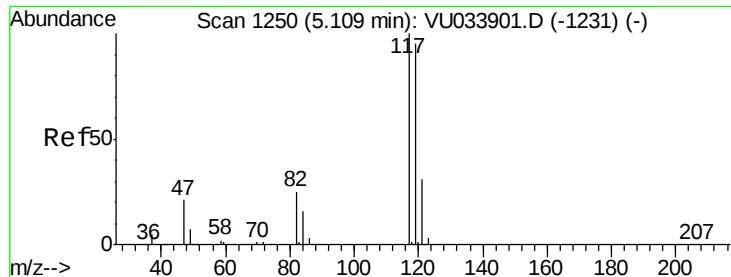
Tgt Ion: 56 Resp: 1535367
Ion Ratio Lower Upper
56 100
69 29.9 24.1 36.1
84 84.8 68.6 103.0



#30
1,1,1-Trichloroethane
Concen: 177.784 ug/L
RT: 4.88 min Scan# 1180
Delta R.T. -0.00 min
Lab File: VU033903.D
Acq: 22 Aug 2019 16:24

Tgt Ion: 97 Resp: 1369187
Ion Ratio Lower Upper
97 100
99 64.2 51.1 76.7
61 47.3 38.6 57.8





#31

Carbon tetrachloride

Concen: 175.465 ug/L

RT: 5.11 min Scan# 1249

Delta R.T. -0.00 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

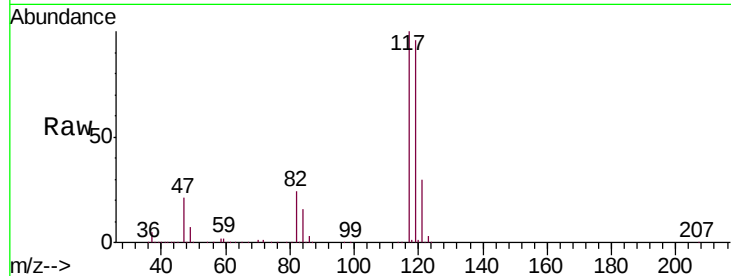
VSTD20033

Tgt Ion:117 Resp: 1227017

Ion Ratio Lower Upper

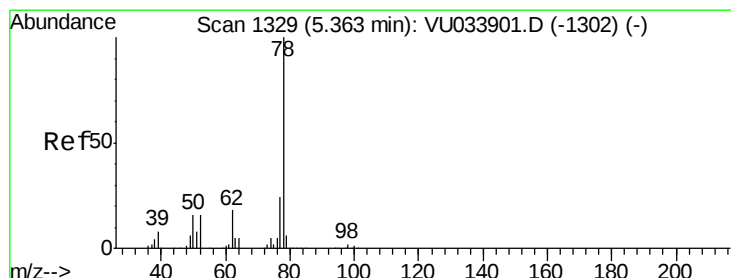
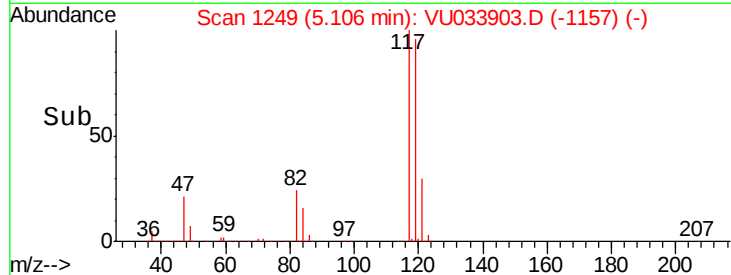
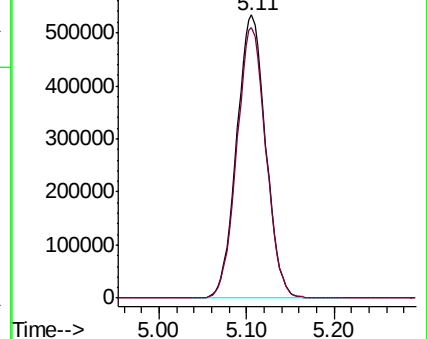
117 100

119 95.7 76.3 114.5



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 186.597 ug/L

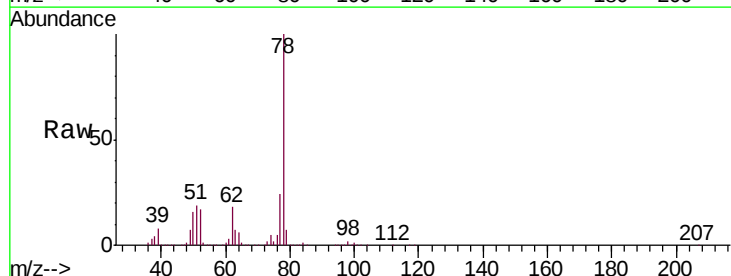
RT: 5.36 min Scan# 1328

Delta R.T. -0.00 min

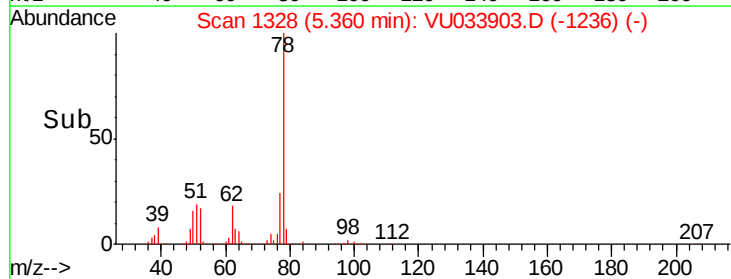
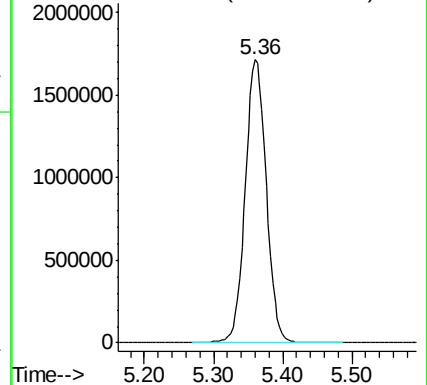
Lab File: VU033903.D

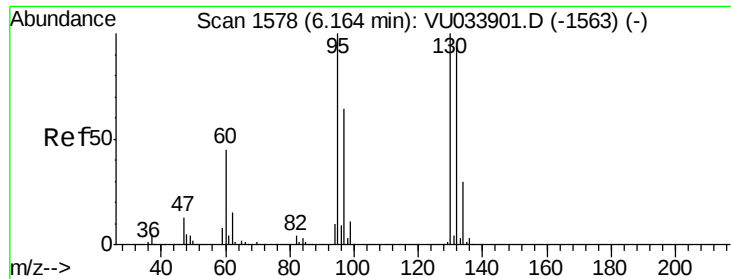
Acq: 22 Aug 2019 16:24

Tgt Ion: 78 Resp: 3634491



Abundance Ion 78.00 (77.70 to 78.70): VU0

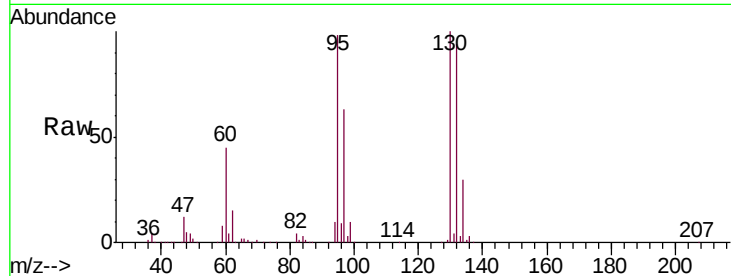




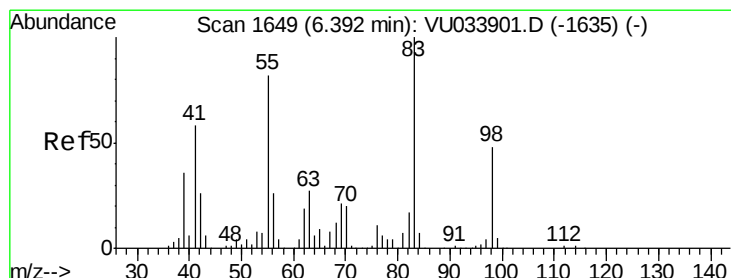
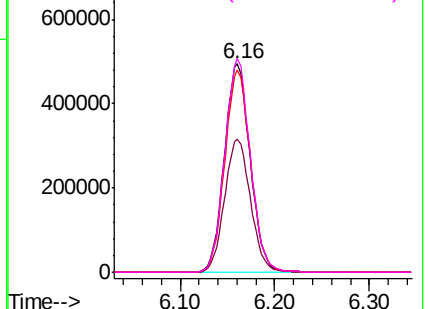
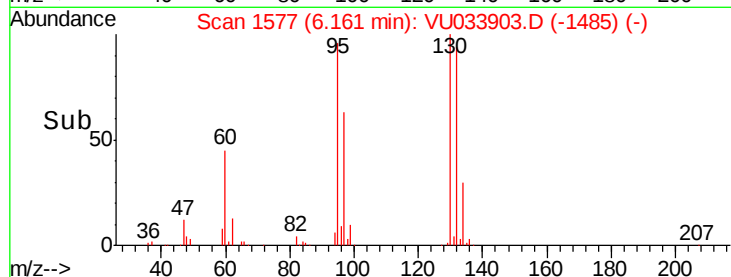
#34
 Trichloroethene
 Concen: 182.089 ug/L
 RT: 6.16 min Scan# 1577
 Delta R.T. -0.00 min
 Lab File: VU033903.D
 Acq: 22 Aug 2019 16:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20033

Tgt Ion:	95	Resp:	938172
Ion	Ratio	Lower	Upper
95	100		
97	64.2	44.7	82.9
132	96.8	65.7	122.1
130	102.5	70.0	130.0

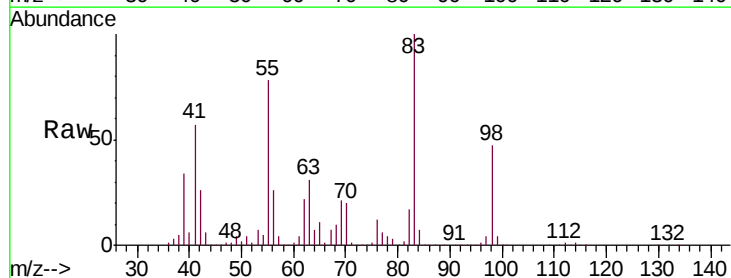


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

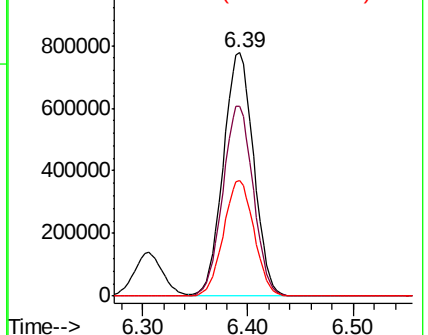
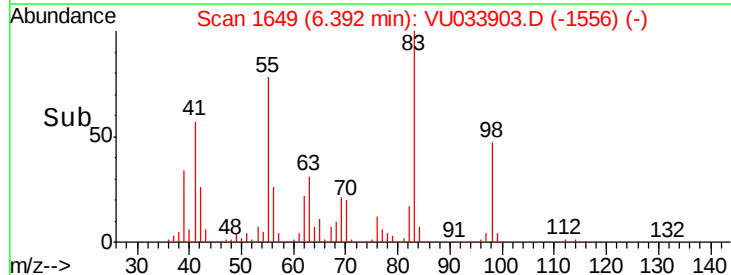


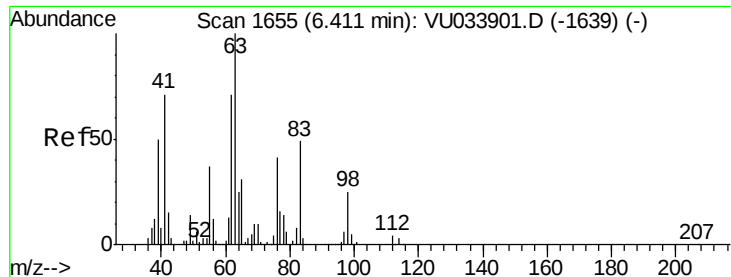
#35
 Methylcyclohexane
 Concen: 203.065 ug/L
 RT: 6.39 min Scan# 1649
 Delta R.T. 0.00 min
 Lab File: VU033903.D
 Acq: 22 Aug 2019 16:24

Tgt Ion:	83	Resp:	1548108
Ion	Ratio	Lower	Upper
83	100		
55	78.2	64.4	96.6
98	47.8	38.7	58.1



Abundance Ion 83.00 (82.70 to 83.70): VU0
 Ion 55.00 (54.70 to 55.70): VU0
 Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 186.936 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

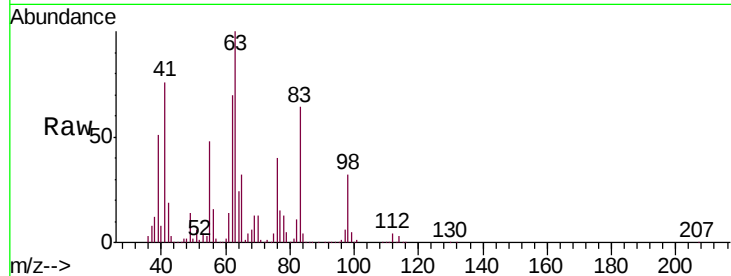
VSTD20033

Tgt Ion: 63 Resp: 995088

Ion Ratio Lower Upper

63 100

112 4.1 3.5 5.3



Abundance Ion 63.00 (62.70 to 63.70): VU0

Ion 112.00 (111.70 to 112.70): V

600000

500000

400000

300000

200000

100000

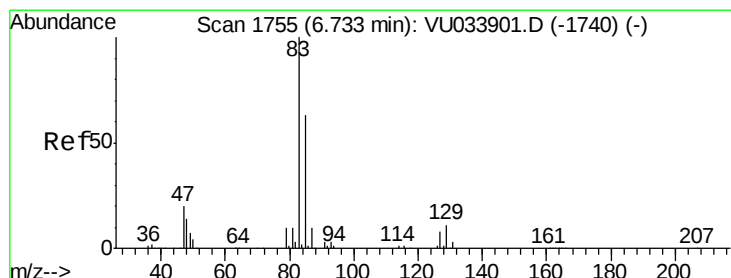
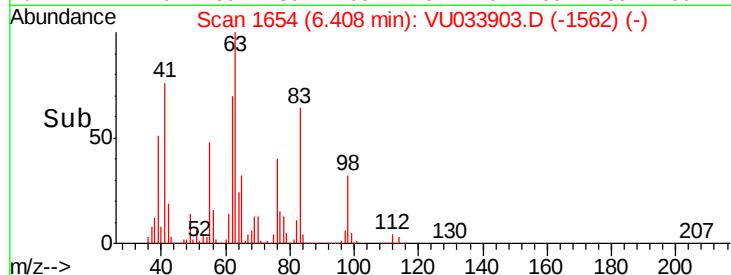
0

6.30

6.40

6.50

Time-->



#38

Bromodichloromethane

Concen: 188.048 ug/L

RT: 6.73 min Scan# 1755

Delta R.T. 0.00 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

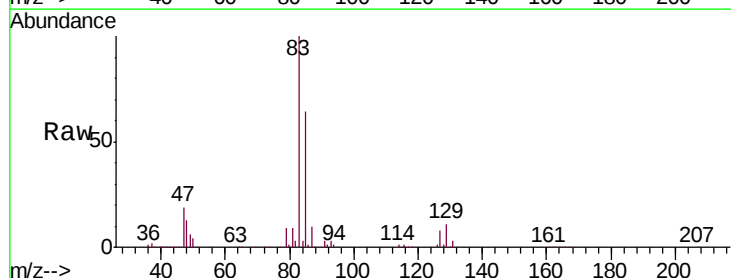
Tgt Ion: 83 Resp: 1296618

Ion Ratio Lower Upper

83 100

85 63.7 44.0 81.8

127 8.3 6.8 10.2



Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 127.00 (126.70 to 127.70): V

800000

600000

400000

200000

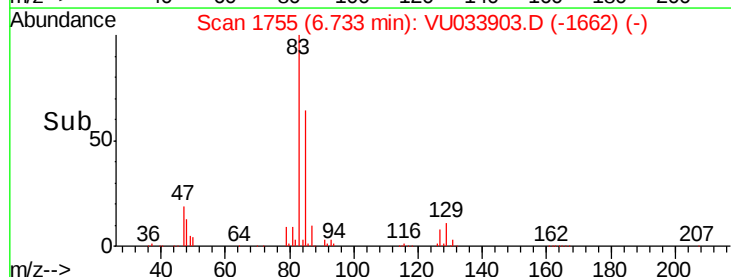
0

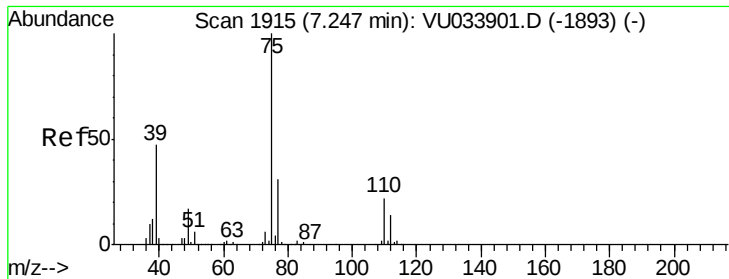
6.60

6.70

6.80

Time-->



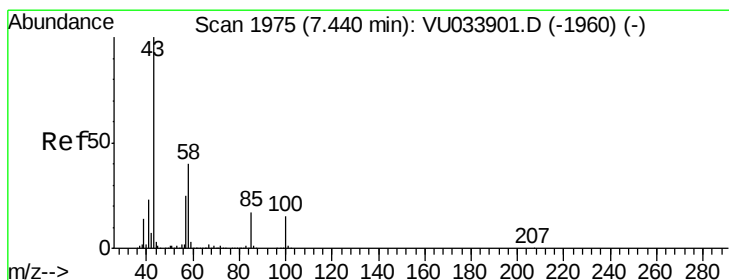
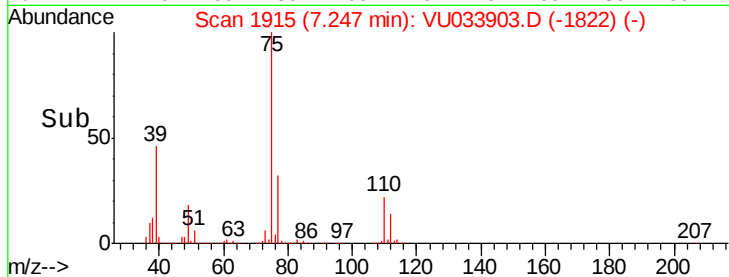
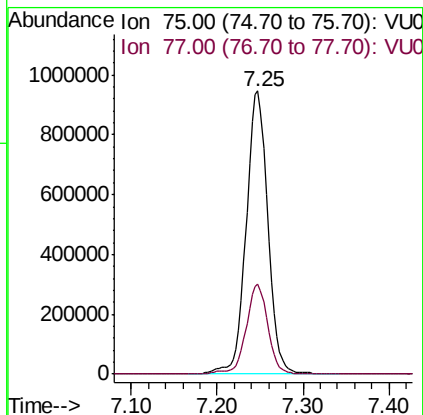
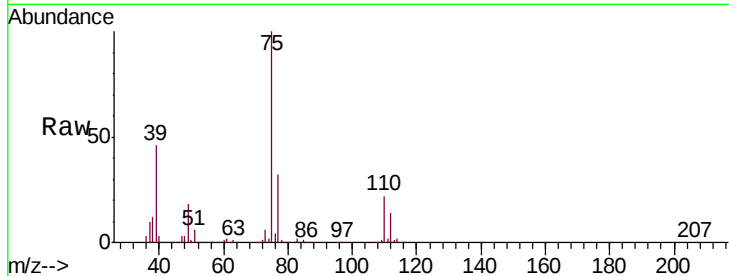


#39

cis-1,3-Dichloropropene
 Concen: 213.146 ug/L
 RT: 7.25 min Scan# 1915
 Delta R.T. 0.00 min
 Lab File: VU033903.D
 Acq: 22 Aug 2019 16:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20033

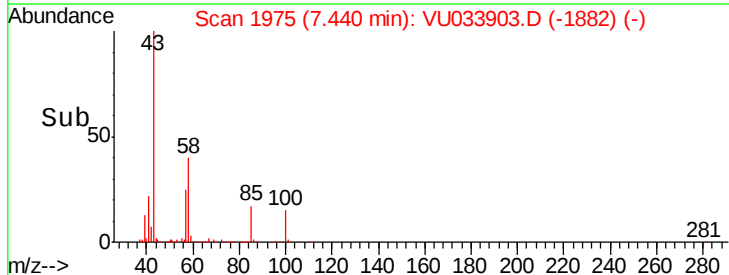
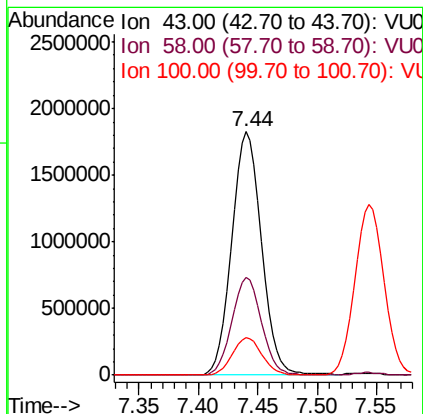
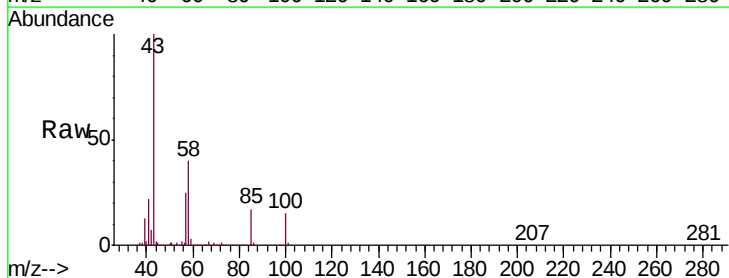
Tgt Ion: 75 Resp: 1662450
 Ion Ratio Lower Upper
 75 100
 77 31.6 21.8 40.4

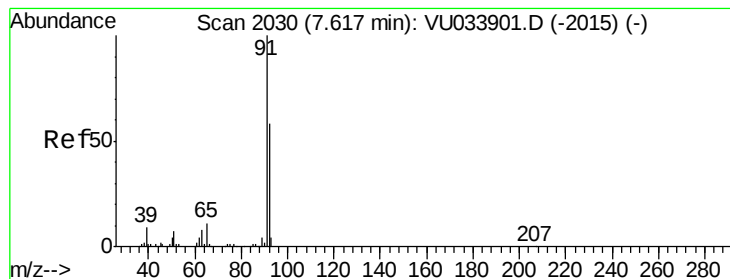


#40

4-Methyl-2-pentanone
 Concen: 487.104 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU033903.D
 Acq: 22 Aug 2019 16:24

Tgt Ion: 43 Resp: 3168772
 Ion Ratio Lower Upper
 43 100
 58 40.0 31.6 47.4
 100 15.3 12.0 18.0





#42

Toluene

Concen: 188.841 ug/L

RT: 7.61 min Scan# 2029

Delta R.T. -0.00 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

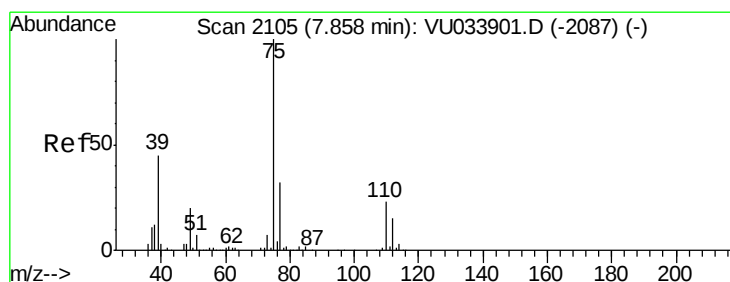
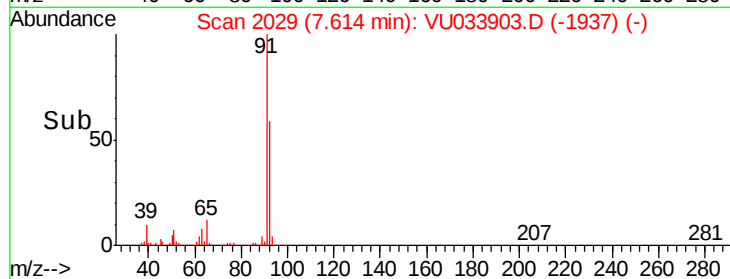
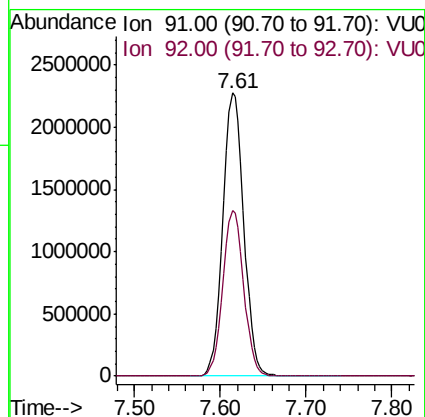
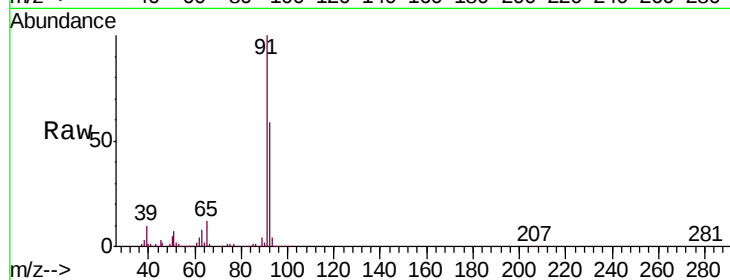
VSTD20033

Tgt Ion: 91 Resp: 3863511

Ion Ratio Lower Upper

91 100

92 58.5 40.3 74.9



#44

trans-1,3-Dichloropropene

Concen: 207.414 ug/L

RT: 7.86 min Scan# 2105

Delta R.T. 0.00 min

Lab File: VU033903.D

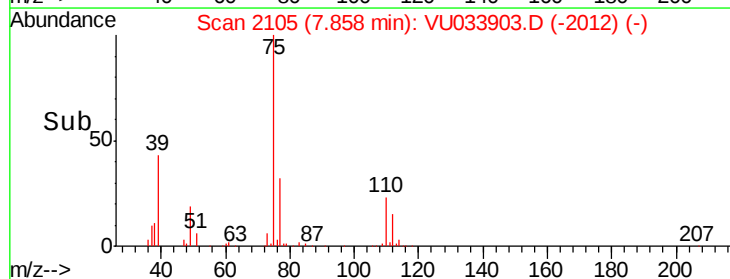
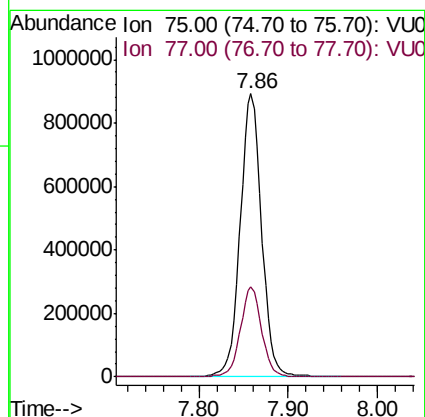
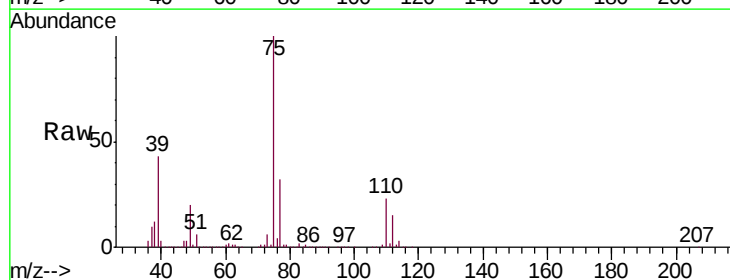
Acq: 22 Aug 2019 16:24

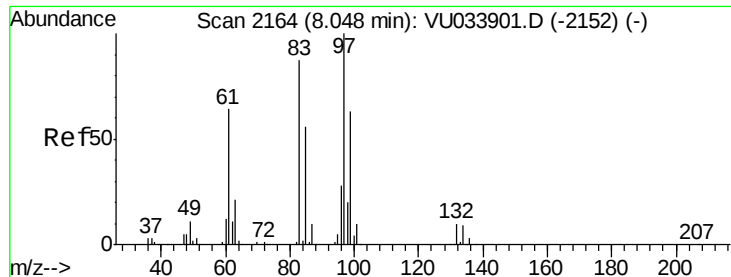
Tgt Ion: 75 Resp: 1482628

Ion Ratio Lower Upper

75 100

77 31.8 22.3 41.3





#45

1,1,2-Trichloroethane

Concen: 182.506 ug/L

RT: 8.04 min Scan# 2163

Delta R.T. -0.00 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD20033

Tgt Ion: 97 Resp: 910717

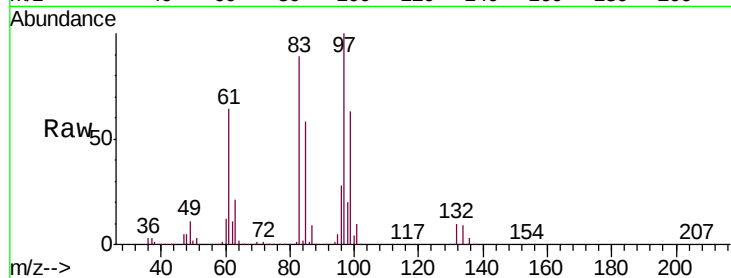
Ion Ratio Lower Upper

97 100

99 62.9 44.2 82.2

83 89.3 61.2 113.6

85 57.6 39.0 72.4

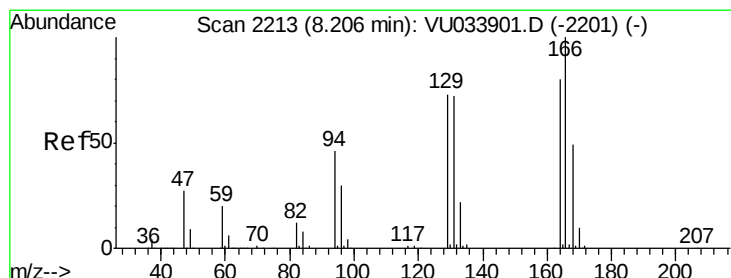
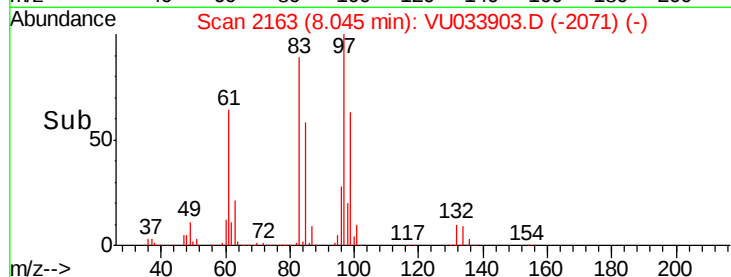
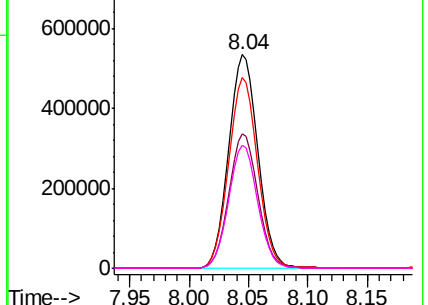


Abundance Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46

Tetrachloroethene

Concen: 176.977 ug/L

RT: 8.21 min Scan# 2213

Delta R.T. 0.00 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

Tgt Ion: 164 Resp: 728967

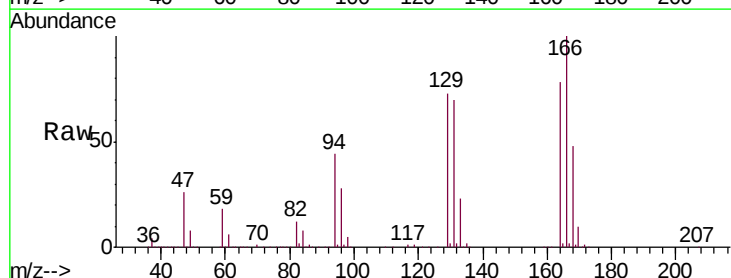
Ion Ratio Lower Upper

164 100

129 93.4 63.9 118.7

131 90.0 62.5 116.1

166 127.9 87.3 162.1

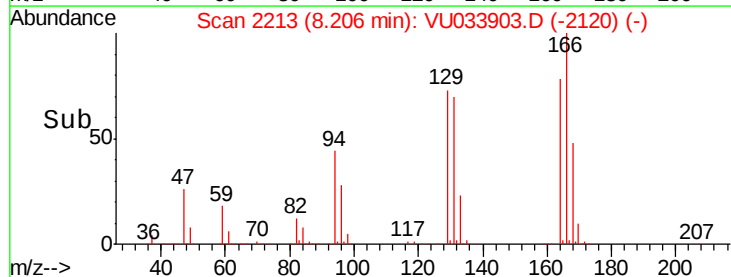
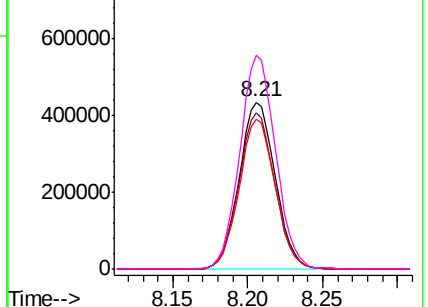


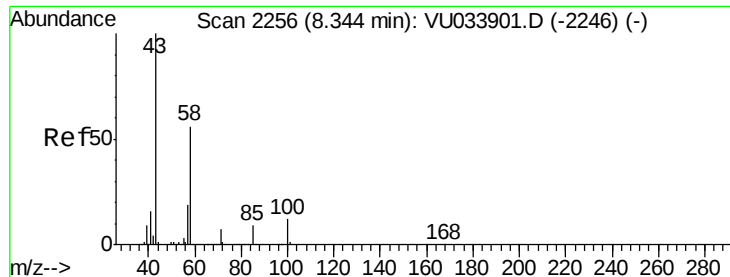
Abundance Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

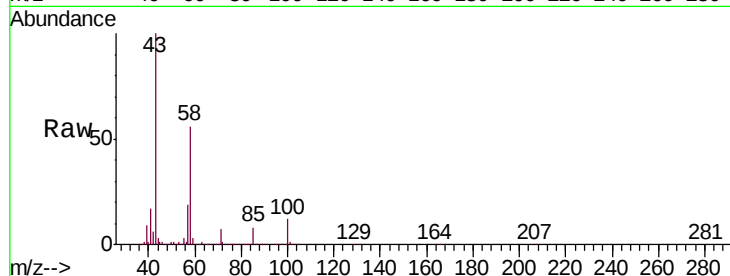




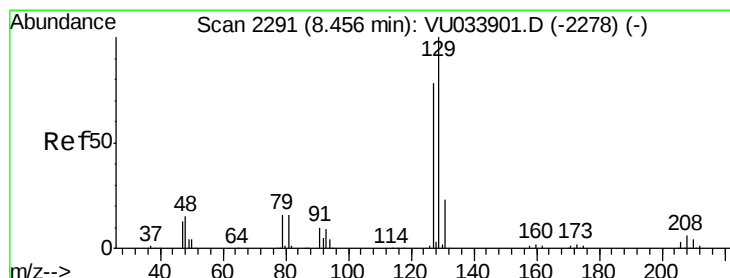
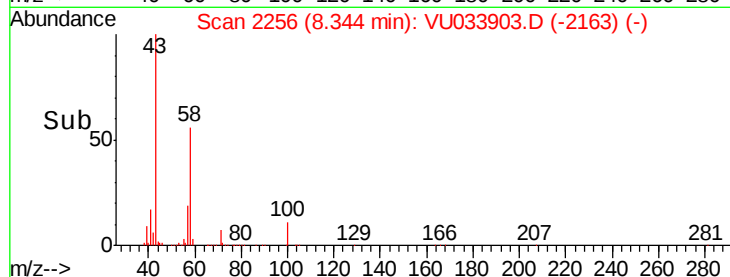
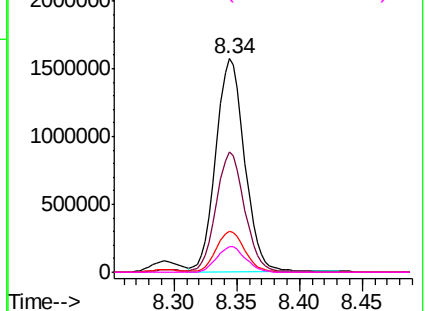
#48
2-Hexanone
Concen: 492.128 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. 0.00 min
Lab File: VU033903.D
Acq: 22 Aug 2019 16:24

Instrument :
MSVOA_U
ClientSampleId :
VSTD20033

Tgt Ion: 43 Resp: 2499990
Ion Ratio Lower Upper
43 100
58 56.0 44.3 66.5
57 19.2 15.3 22.9
100 12.1 9.4 14.2

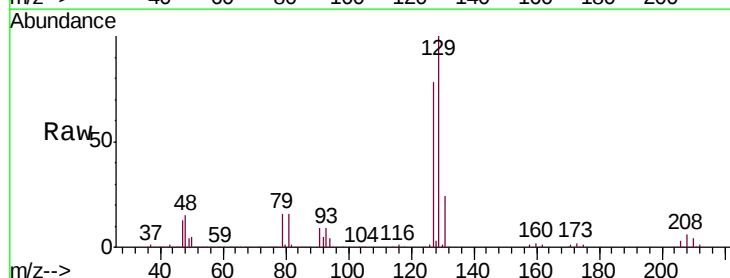


Abundance Ion 43.00 (42.70 to 43.70): VU0
Ion 58.00 (57.70 to 58.70): VU0
Ion 57.00 (56.70 to 57.70): VU0
Ion 100.00 (99.70 to 100.70): VU0

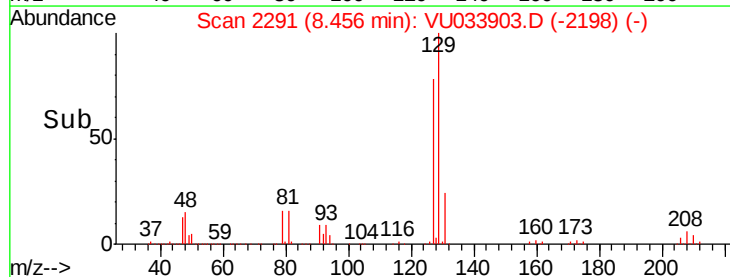
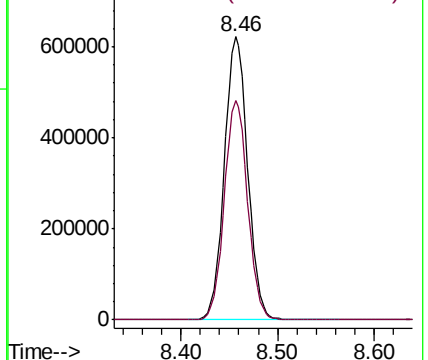


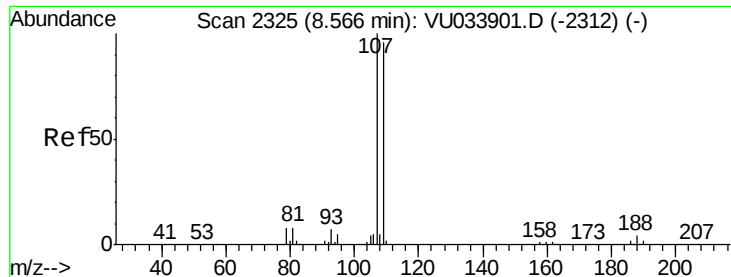
#49
Dibromochloromethane
Concen: 185.935 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. 0.00 min
Lab File: VU033903.D
Acq: 22 Aug 2019 16:24

Tgt Ion: 129 Resp: 1039600
Ion Ratio Lower Upper
129 100
127 77.7 54.5 101.3



Abundance Ion 129.00 (128.70 to 129.70): V
Ion 127.00 (126.70 to 127.70): V

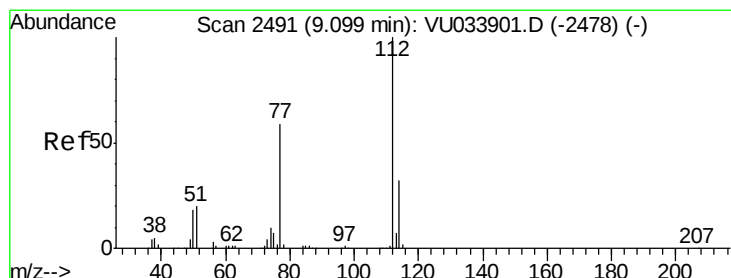
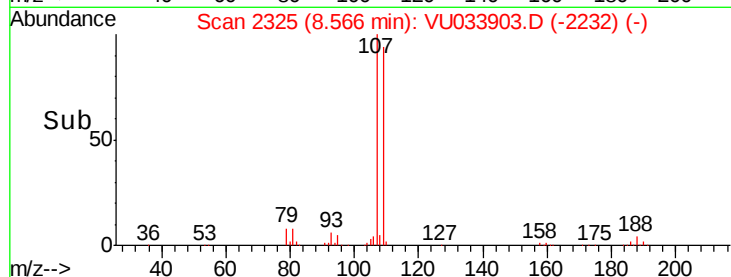
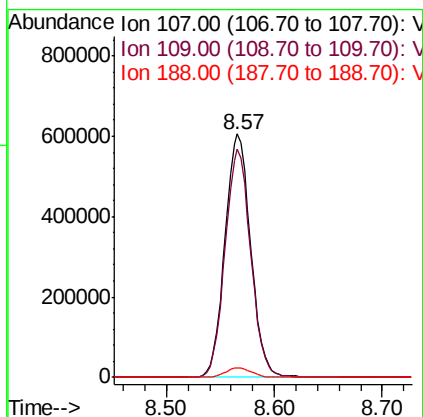
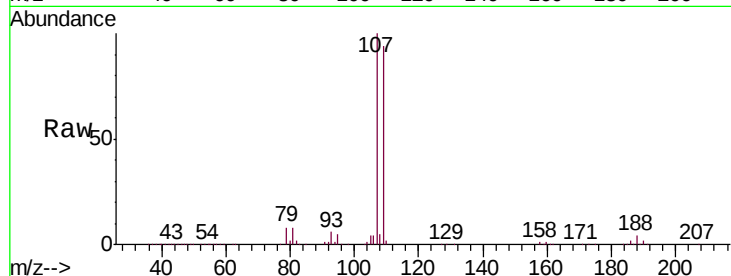




#50
1,2-Dibromoethane
Concen: 190.624 ug/L
RT: 8.57 min Scan# 2325
Delta R.T. 0.00 min
Lab File: VU033903.D
Acq: 22 Aug 2019 16:24

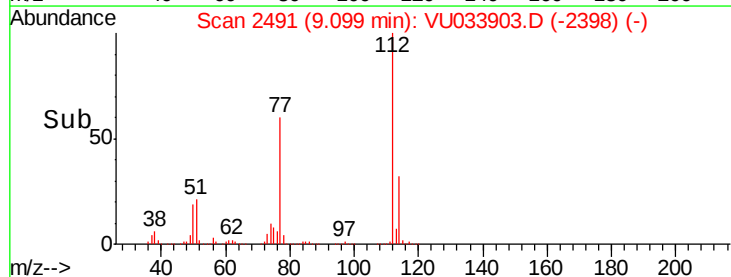
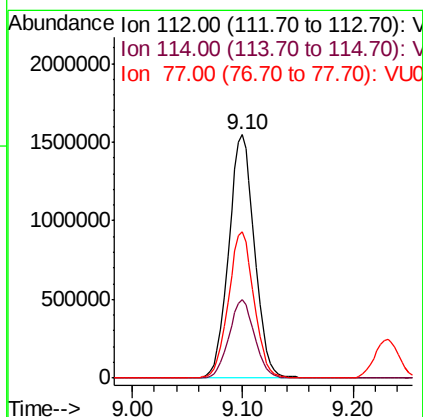
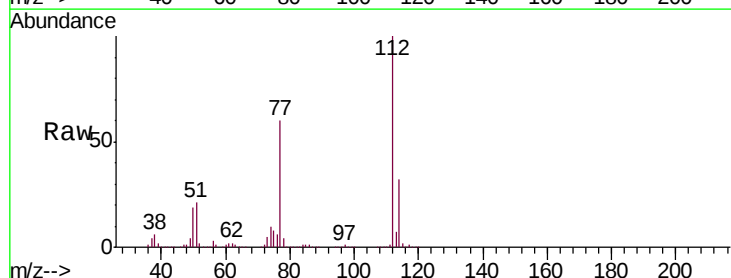
Instrument :
MSVOA_U
ClientSampleId :
VSTD20033

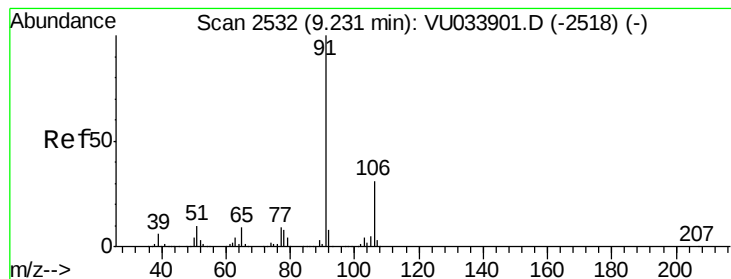
Tgt Ion:107 Resp: 1007991
Ion Ratio Lower Upper
107 100
109 93.8 66.9 124.3
188 3.9 3.0 4.4



#51
Chlorobenzene
Concen: 185.500 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. 0.00 min
Lab File: VU033903.D
Acq: 22 Aug 2019 16:24

Tgt Ion:112 Resp: 2505116
Ion Ratio Lower Upper
112 100
114 32.1 22.5 41.7
77 60.0 47.3 70.9





#52

Ethylbenzene

Concen: 202.425 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

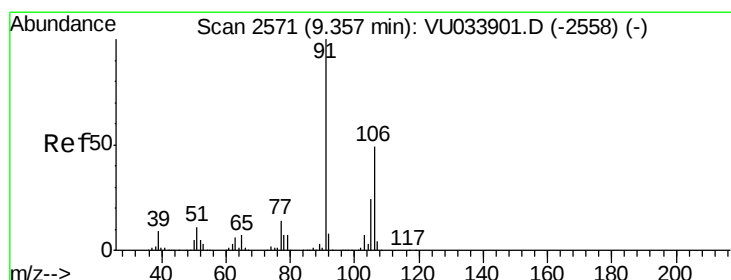
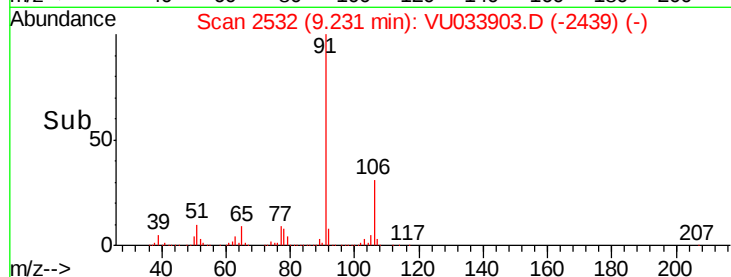
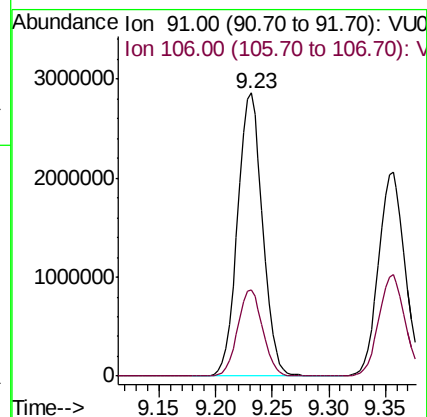
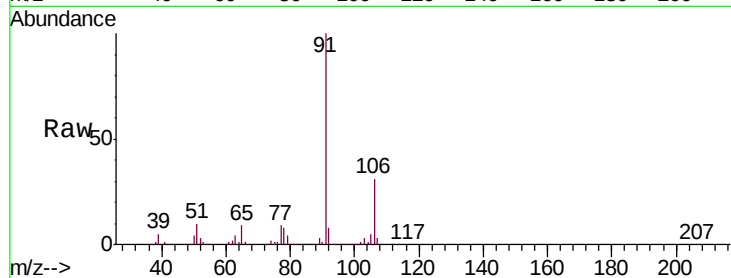
VSTD20033

Tgt Ion: 91 Resp: 4403757

Ion Ratio Lower Upper

91 100

106 30.6 21.4 39.8



#53

m,p-Xylene

Concen: 203.101 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU033903.D

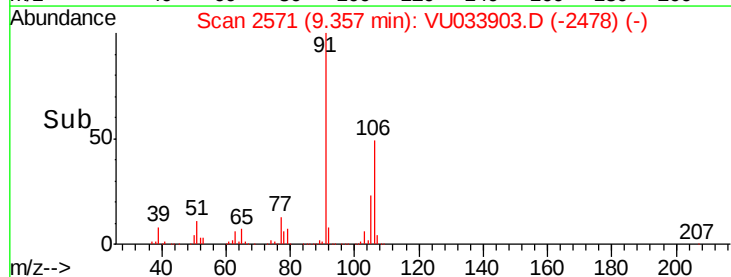
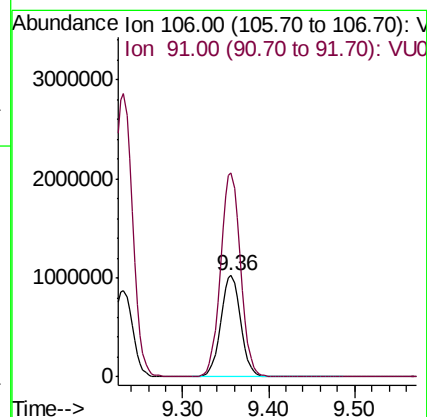
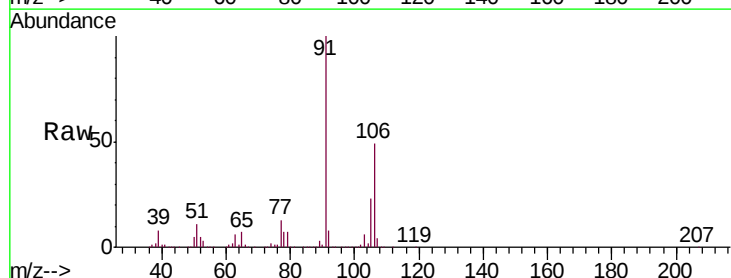
Acq: 22 Aug 2019 16:24

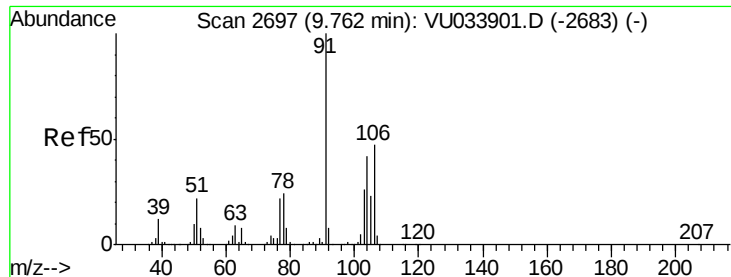
Tgt Ion: 106 Resp: 1648476

Ion Ratio Lower Upper

106 100

91 202.3 142.2 264.0





#54

o-xylene

Concen: 207.252 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

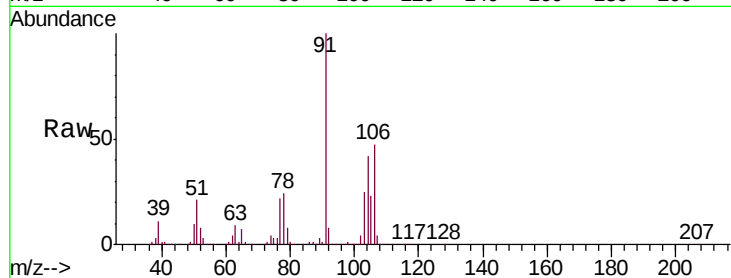
VSTD20033

Tgt Ion:106 Resp: 1633778

Ion Ratio Lower Upper

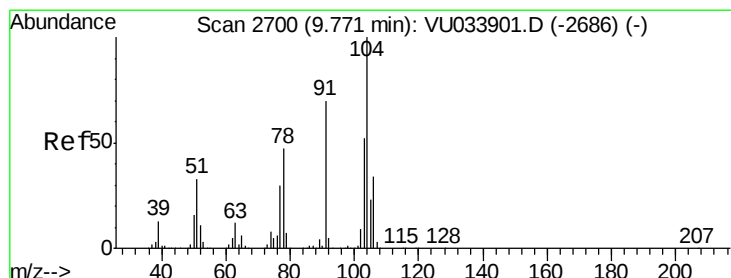
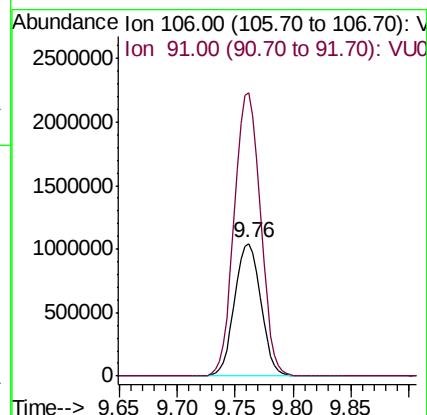
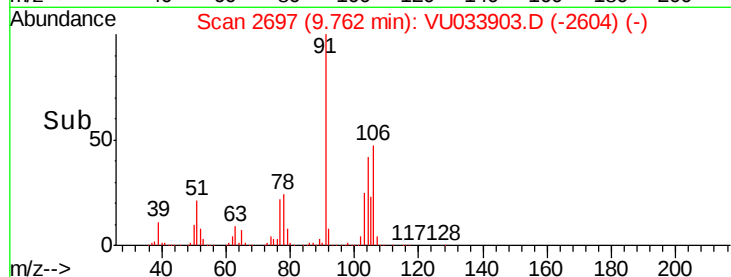
106 100

91 213.1 148.6 276.0



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 209.530 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033903.D

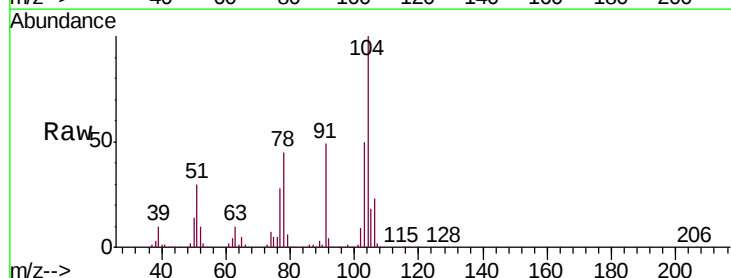
Acq: 22 Aug 2019 16:24

Tgt Ion:104 Resp: 2825975

Ion Ratio Lower Upper

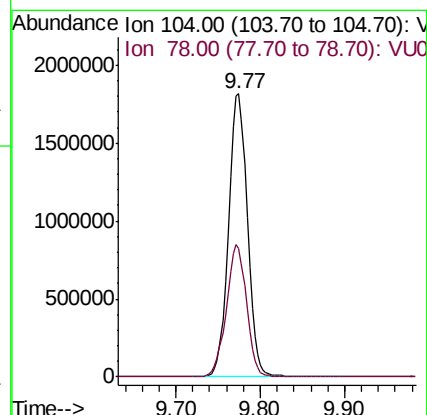
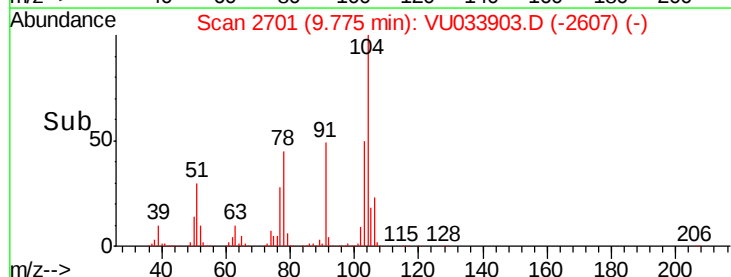
104 100

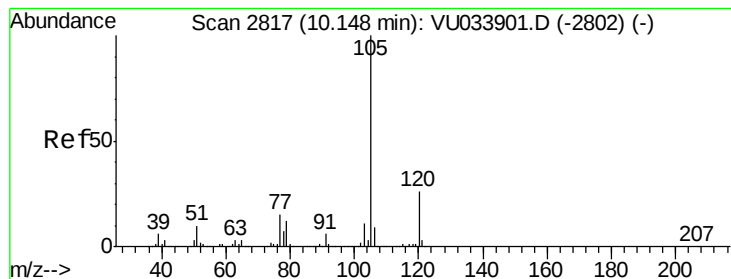
78 45.4 32.8 61.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 209.048 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD20033

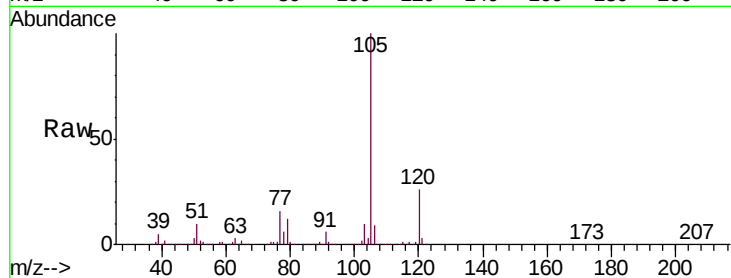
Tgt Ion:105 Resp: 4305915

Ion Ratio Lower Upper

105 100

120 26.5 21.2 31.8

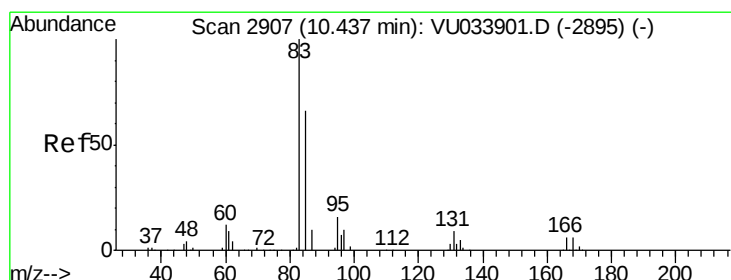
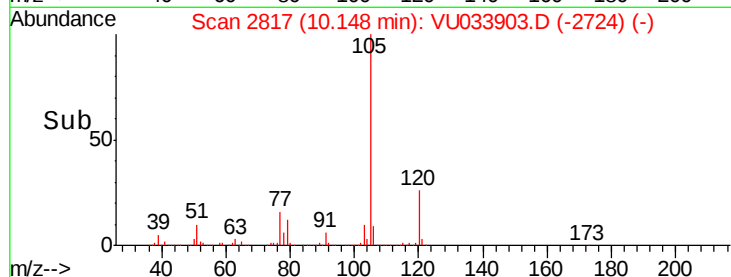
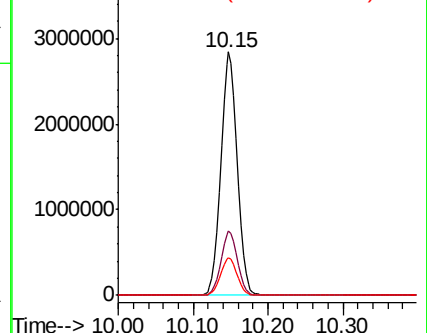
77 15.8 12.6 18.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 198.198 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

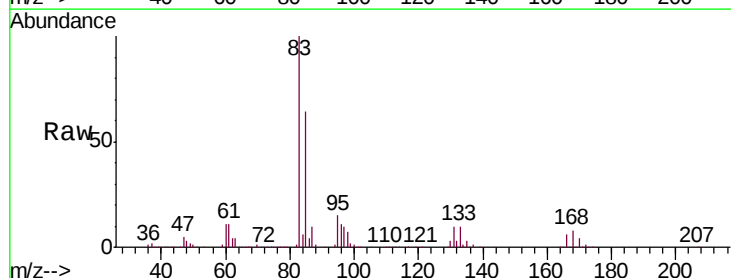
Tgt Ion: 83 Resp: 1614983

Ion Ratio Lower Upper

83 100

85 64.3 46.3 85.9

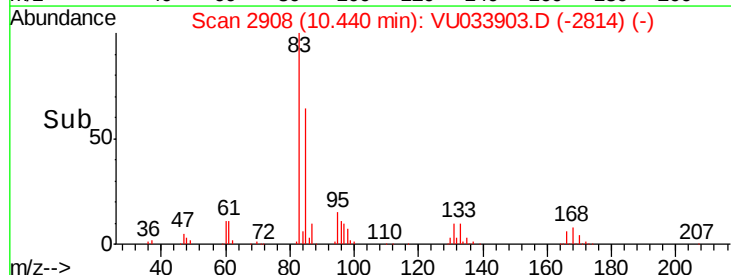
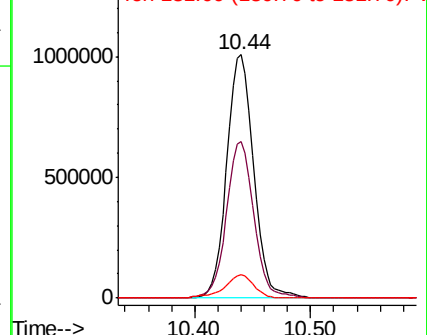
131 9.6 7.9 11.9

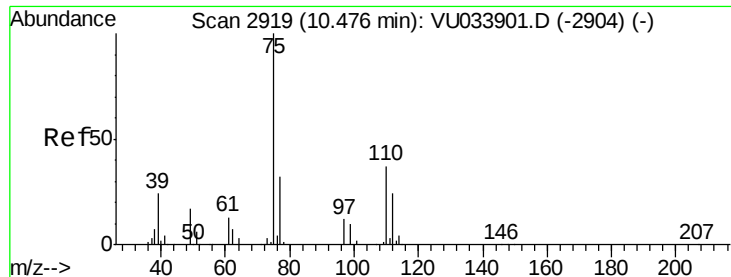


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 196.214 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

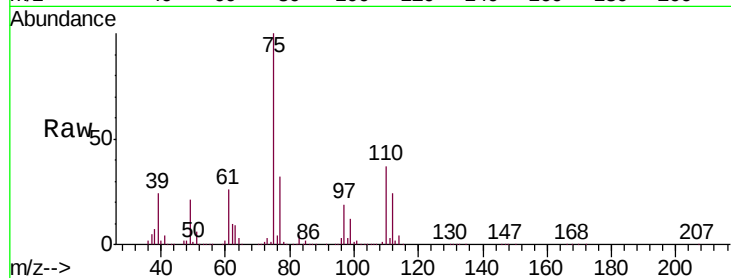
VSTD20033

Tgt Ion: 75 Resp: 1275856

Ion Ratio Lower Upper

75 100

77 32.2 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VU033901.D (-2904) (-)

Ion 77.00 (76.70 to 77.70): VU033901.D (-2904) (-)

10.48

800000

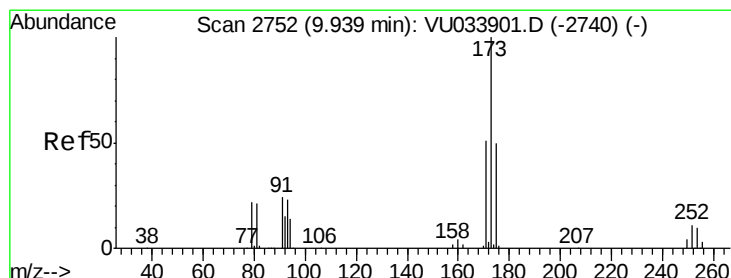
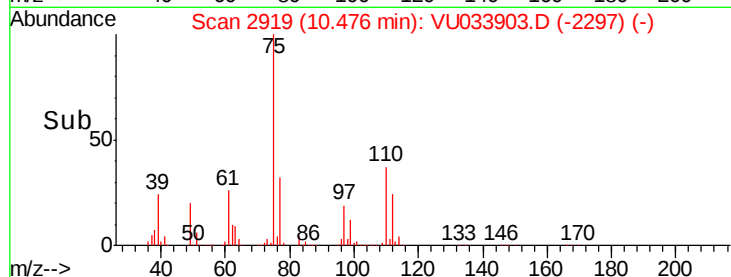
600000

400000

200000

0

Time-->



#61

Bromoform

Concen: 187.944 ug/L

RT: 9.94 min Scan# 2752

Delta R.T. 0.00 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

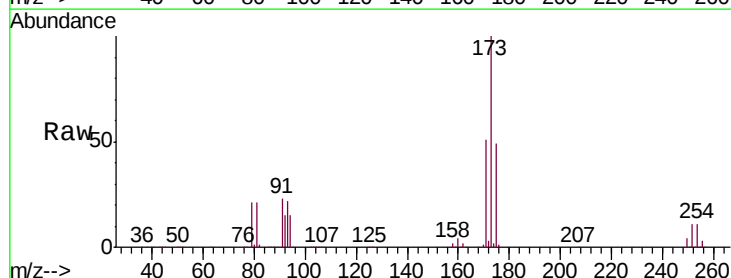
Tgt Ion: 173 Resp: 810253

Ion Ratio Lower Upper

173 100

175 48.6 39.4 59.2

254 10.6 8.5 12.7



Abundance Ion 173.00 (172.70 to 173.70): VU033901.D (-2740) (-)

Ion 175.00 (174.70 to 175.70): VU033901.D (-2740) (-)

Ion 254.00 (253.70 to 254.70): VU033901.D (-2740) (-)

9.94

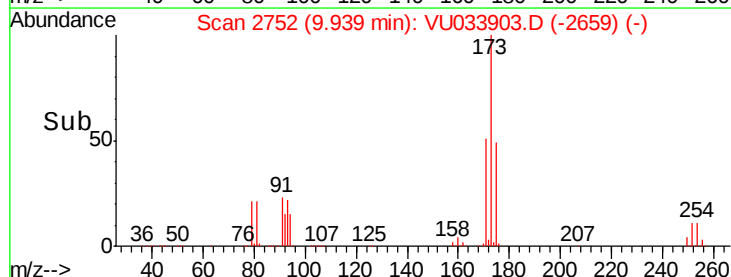
600000

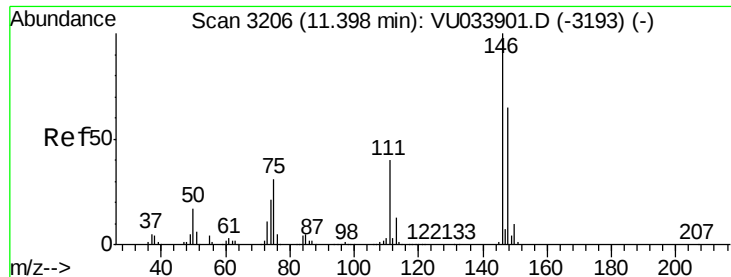
400000

200000

0

Time-->





#62

1,3-Dichlorobenzene

Concen: 188.108 ug/L

RT: 11.40 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

Instrument :

MSVOA_U

ClientSampleId :

VSTD20033

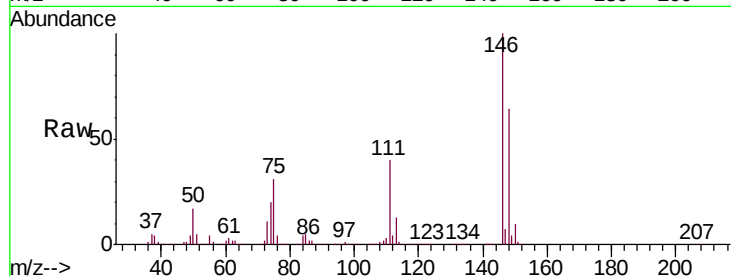
Tgt Ion:146 Resp: 2036005

Ion Ratio Lower Upper

146 100

111 40.0 27.8 51.6

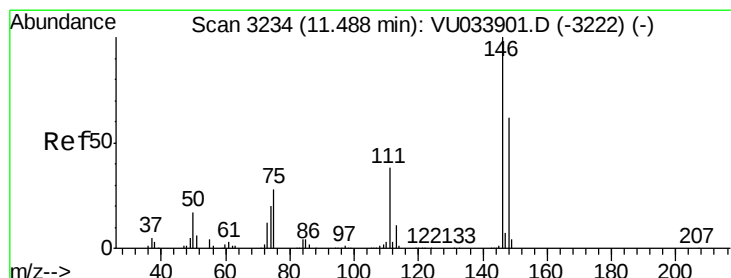
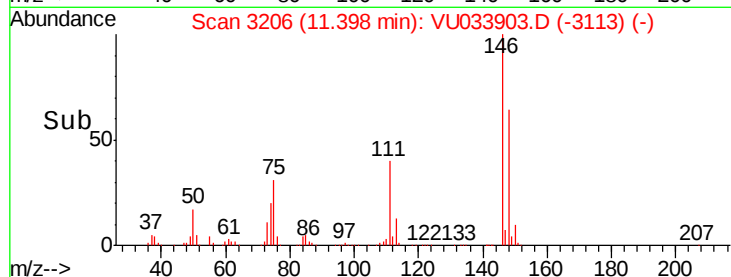
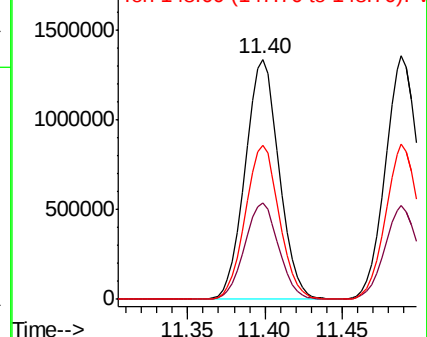
148 64.2 45.1 83.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 183.648 ug/L

RT: 11.49 min Scan# 3234

Delta R.T. 0.00 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

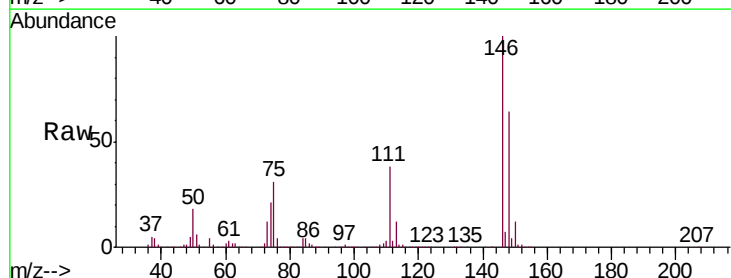
Tgt Ion:146 Resp: 2057414

Ion Ratio Lower Upper

146 100

111 38.3 26.7 49.5

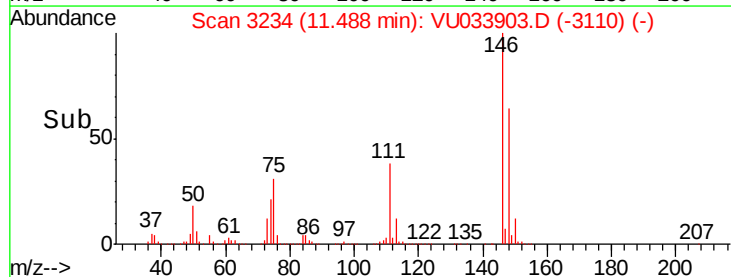
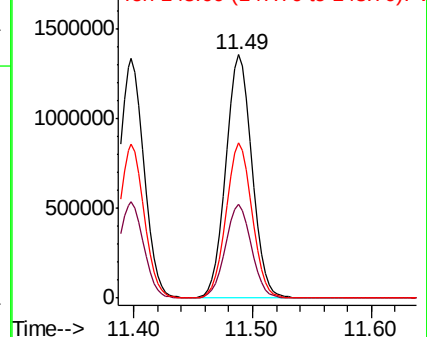
148 63.5 43.5 80.9

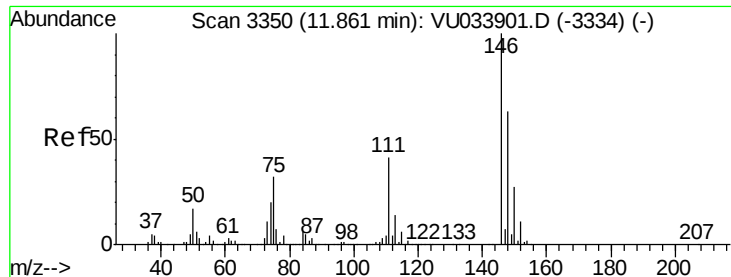


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

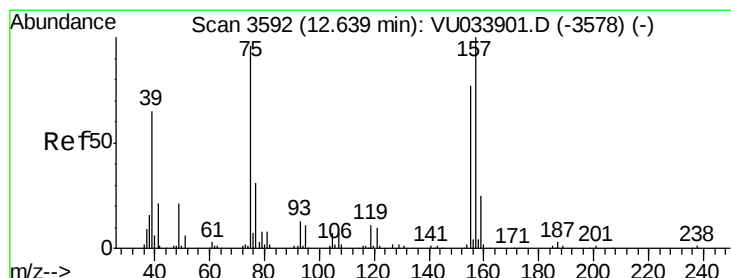
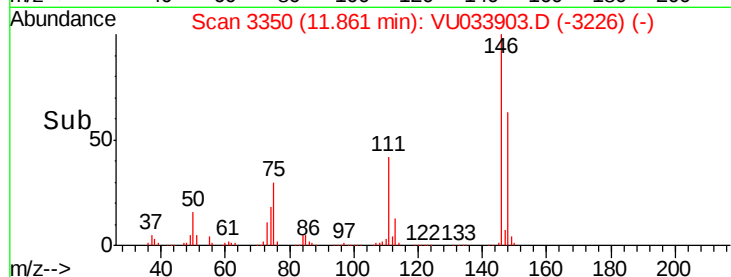
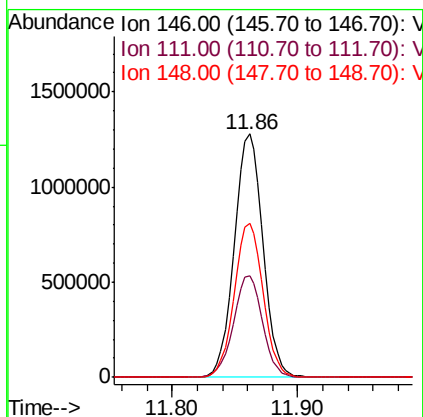
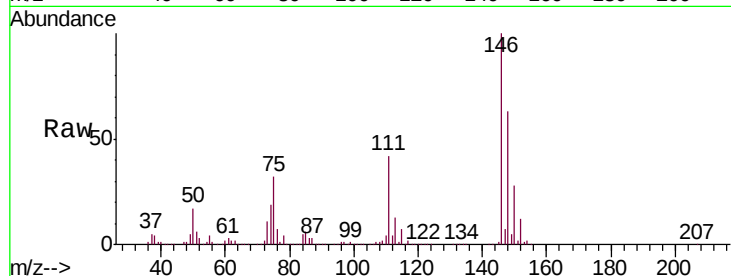




#65
 1,2-Dichlorobenzene
 Concen: 186.883 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. 0.00 min
 Lab File: VU033903.D
 Acq: 22 Aug 2019 16:24

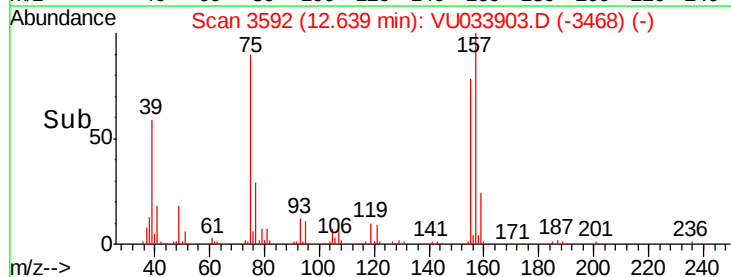
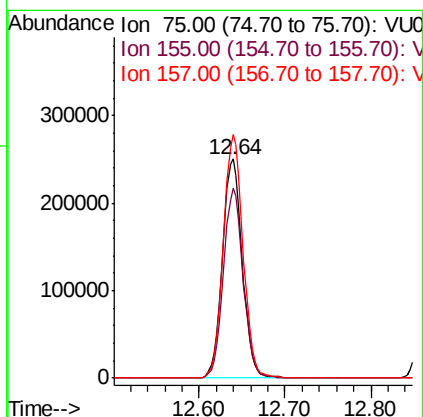
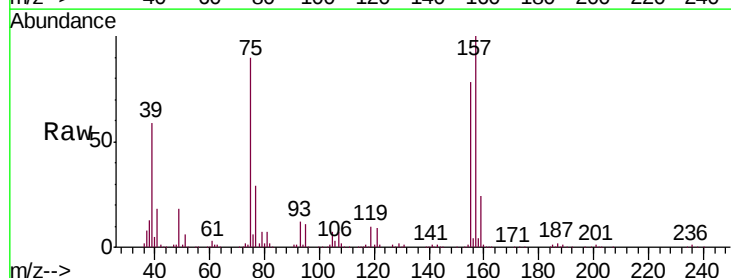
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20033

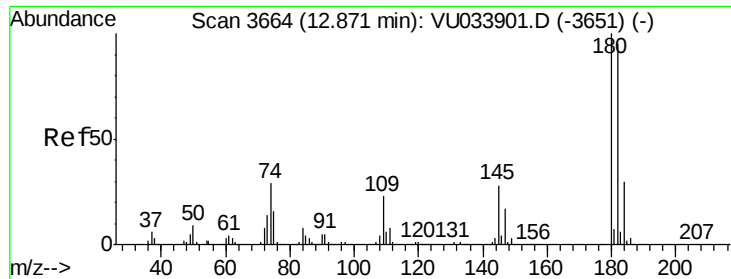
Tgt Ion:146 Resp: 2025300
 Ion Ratio Lower Upper
 146 100
 111 41.7 33.1 49.7
 148 63.2 50.8 76.2



#66
 1,2-Dibromo-3-chloropropane
 Concen: 217.960 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. 0.00 min
 Lab File: VU033903.D
 Acq: 22 Aug 2019 16:24

Tgt Ion: 75 Resp: 403377
 Ion Ratio Lower Upper
 75 100
 155 86.7 64.3 96.5
 157 111.3 83.4 125.2

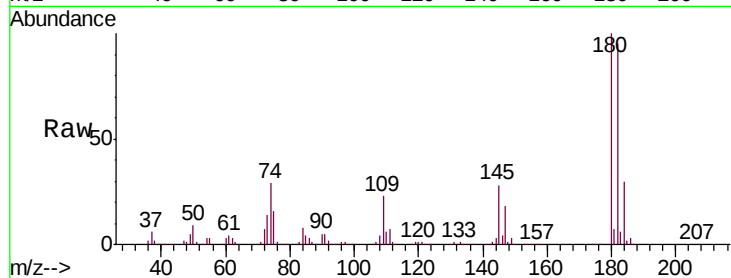




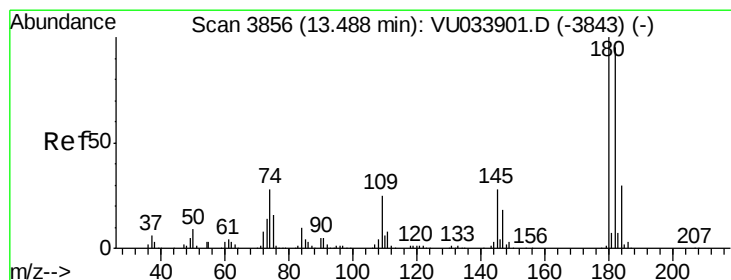
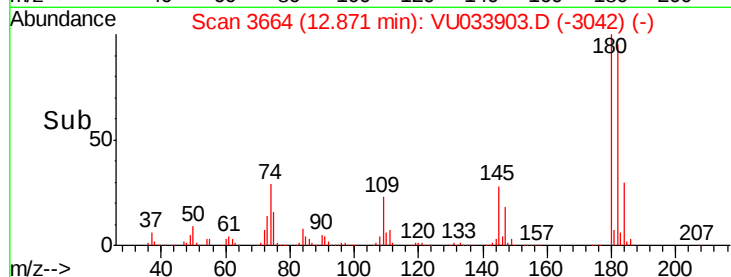
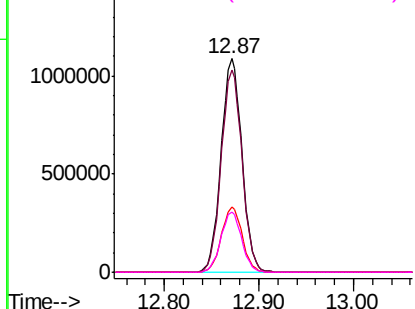
#67
 1,3,5-Trichlorobenzene
 Concen: 199.880 ug/L
 RT: 12.87 min Scan# 3664
 Delta R.T. 0.00 min
 Lab File: VU033903.D
 Acq: 22 Aug 2019 16:24

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD20033

Tgt Ion:180 Resp: 1665409
 Ion Ratio Lower Upper
 180 100
 182 94.7 76.4 114.6
 184 30.4 24.1 36.1
 145 28.1 22.4 33.6

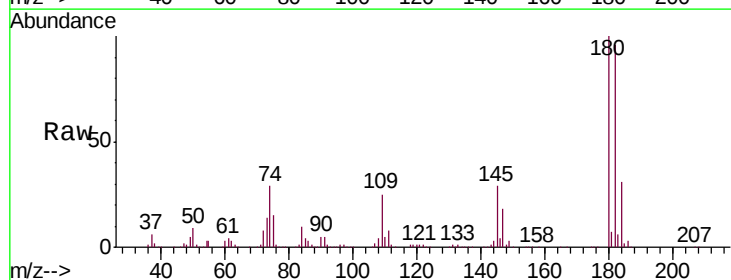


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

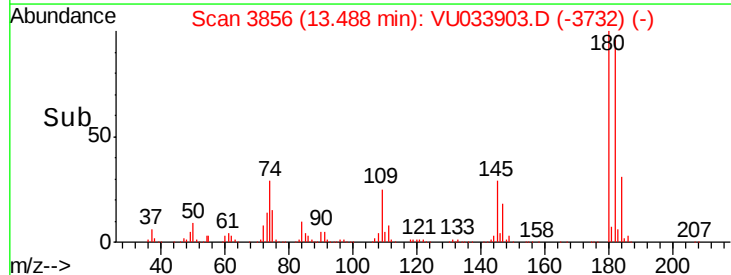
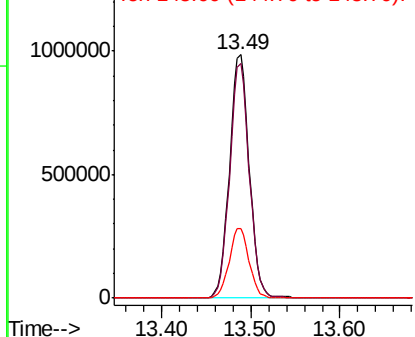


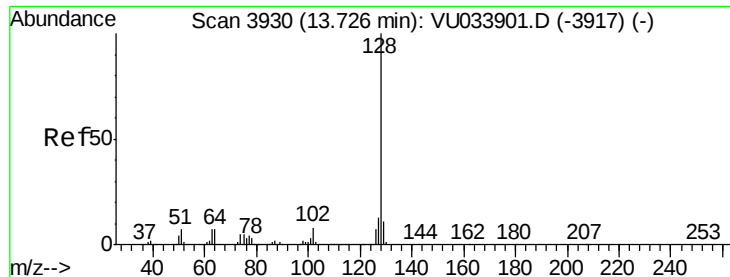
#68
 1,2,4-trichlorobenzene
 Concen: 221.492 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. 0.00 min
 Lab File: VU033903.D
 Acq: 22 Aug 2019 16:24

Tgt Ion:180 Resp: 1515824
 Ion Ratio Lower Upper
 180 100
 182 95.4 76.8 115.2
 145 28.8 22.8 34.2



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





#69

Naphthalene

Concen: 251.305 ug/L

RT: 13.73 min Scan# 3930

Delta R.T. 0.00 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

Instrument :

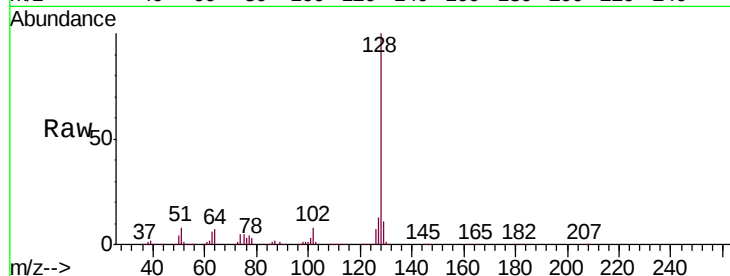
MSVOA_U

ClientSampleId :

VSTD20033

Tgt Ion:128 Resp: 4829950

Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.1	15.1
129	10.9	8.3	12.5

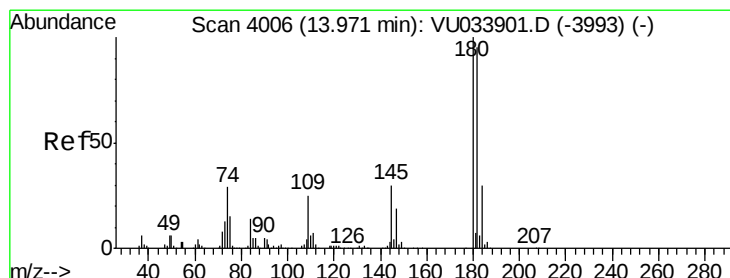
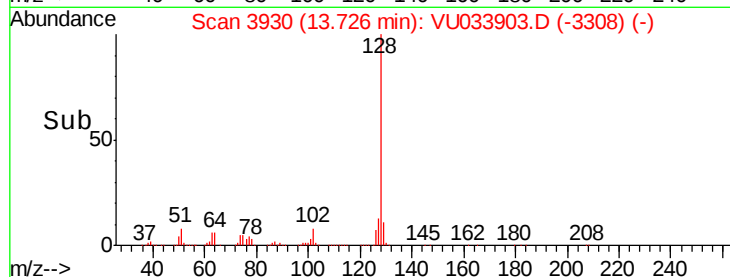
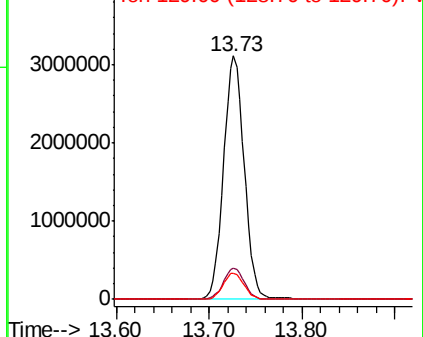


Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 213.056 ug/L

RT: 13.97 min Scan# 4006

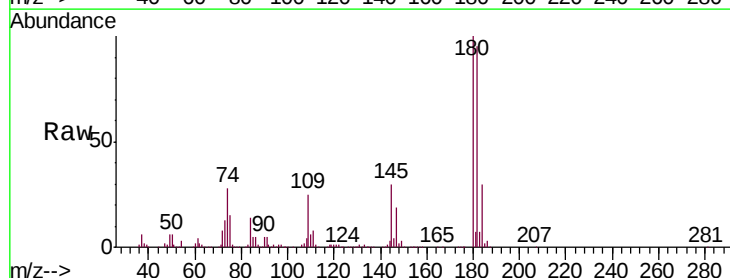
Delta R.T. 0.00 min

Lab File: VU033903.D

Acq: 22 Aug 2019 16:24

Tgt Ion:180 Resp: 1511462

Ion	Ratio	Lower	Upper
180	100		
182	95.2	76.7	115.1
145	30.4	23.9	35.9



Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

