

Data File : VU032806.D
Acq On : 18 Jun 2019 00:41
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 38 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

Quant Time: Jun 18 02:46:53 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM061719WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Jun 18 02:39:23 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	226551	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	220851	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	119673	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	66457	42.92	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	85.84%
7) Chloroethane-d5	1.67	69	54485	44.12	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	88.24%
11) 1,1-Dichloroethene-d2	2.27	63	139718	44.79	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	89.58%
21) 2-Butanone-d5	4.17	46	129067	100.15	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	100.15%
24) Chloroform-d	4.64	84	141142	46.89	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	93.78%
26) 1,2-Dichloroethane-d4	5.30	65	94330	47.05	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	94.10%
32) Benzene-d6	5.33	84	266185	46.24	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	92.48%
36) 1,2-Dichloropropane-d6	6.32	67	85692	46.72	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	93.44%
41) Toluene-d8	7.56	98	248334	46.06	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	92.12%
43) trans-1,3-Dichloropropene-	7.84	79	43199	45.28	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	90.56%
47) 2-Hexanone-d5	8.31	63	85910	100.32	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	100.32%
57) 1,1,2,2-Tetrachloroethane-	10.42	84	135179	47.68	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	95.36%
64) 1,2-Dichlorobenzene-d4	11.85	152	108114	46.68	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	93.36%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	107397	46.930 ug/L	99
3) Chloromethane	1.32	50	97474	46.995 ug/L	99
5) Vinyl chloride	1.40	62	97284	47.288 ug/L	99
6) Bromomethane	1.62	94	56809	46.927 ug/L	96
8) Chloroethane	1.69	64	56624	47.815 ug/L	98
9) Trichlorofluoromethane	1.88	101	136536	47.306 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	69491	45.902 ug/L	99
12) 1,1-Dichloroethene	2.28	96	67383	47.231 ug/L	96
13) Acetone	2.32	43	100082	56.228 ug/L	99
14) Carbon disulfide	2.47	76	207596	45.986 ug/L	99
15) Methyl Acetate	2.61	43	100328	49.725 ug/L	99
16) Methylene chloride	2.69	84	79790	47.662 ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	74143	47.924 ug/L	99
18) Methyl tert-butyl Ether	2.99	73	245544	49.434 ug/L	100
19) 1,1-Dichloroethane	3.44	63	142825	48.424 ug/L	99
20) cis-1,2-Dichloroethene	4.22	96	84999	50.433 ug/L	97
22) 2-Butanone	4.25	43	146599	79.463 ug/L	99

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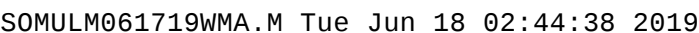
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

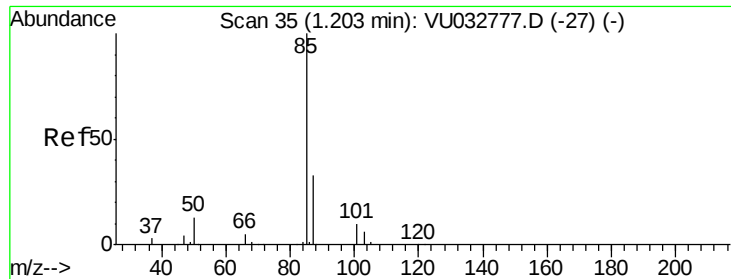
Quant Time: Jun 18 02:46:53 2019
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Quant Title : VOC Analysis
QLast Update : Tue Jun 18 02:39:23 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.54	128	43165	49.094	ug/L	98
25) Chloroform	4.67	83	146129	48.043	ug/L	98
27) 1,2-Dichloroethane	5.40	62	124016	49.632	ug/L	99
29) Cyclohexane	4.99	56	125398	48.627	ug/L	100
30) 1,1,1-Trichloroethane	4.91	97	127611	47.427	ug/L	98
31) Carbon tetrachloride	5.13	117	115058	46.996	ug/L	98
33) Benzene	5.38	78	310607	48.821	ug/L	100
34) Trichloroethene	6.18	95	82178	48.343	ug/L	98
35) Methylcyclohexane	6.41	83	126252	48.049	ug/L	99
37) 1,2-Dichloropropane	6.42	63	85448	48.962	ug/L	100
38) Bromodichloromethane	6.75	83	112318	47.863	ug/L	100
39) cis-1,3-Dichloropropene	7.26	75	132958	48.901	ug/L	100
40) 4-Methyl-2-pentanone	7.45	43	279136	100.183	ug/L	99
42) Toluene	7.63	91	340270	49.432	ug/L	100
44) trans-1,3-Dichloropropene	7.87	75	120336	47.121	ug/L	99
45) 1,1,2-Trichloroethane	8.06	97	79556	48.977	ug/L	99
46) Tetrachloroethene	8.22	164	68320	49.048	ug/L	97
48) 2-Hexanone	8.36	43	220038	89.507	ug/L	99
49) Dibromochloromethane	8.47	129	91838	46.899	ug/L	98
50) 1,2-Dibromoethane	8.58	107	89394	49.555	ug/L	99
51) Chlorobenzene	9.11	112	220624	48.706	ug/L	100
52) Ethylbenzene	9.24	91	379308	49.782	ug/L	100
53) m,p-Xylene	9.37	106	141197	49.116	ug/L	99
54) o-xylene	9.77	106	140540	50.061	ug/L	98
55) Styrene	9.79	104	244759	50.255	ug/L	97
56) Isopropylbenzene	10.16	105	376465	49.759	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	143805	48.925	ug/L	98
59) 1,2,3-Trichloropropane	10.49	75	114805	49.294	ug/L	99
61) Bromoform	9.95	173	70795	45.305	ug/L	99
62) 1,3-Dichlorobenzene	11.41	146	181281	48.734	ug/L	100
63) 1,4-Dichlorobenzene	11.50	146	185489	48.278	ug/L	100
65) 1,2-Dichlorobenzene	11.87	146	184740	48.640	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	34761	47.972	ug/L	96
67) 1,3,5-Trichlorobenzene	12.88	180	144487	48.342	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	132316	51.448	ug/L	99
69) Naphthalene	13.74	128	429627	54.332	ug/L	100
70) 1,2,3-Trichlorobenzene	13.98	180	136865	50.270	ug/L	100

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

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#2

Dichlorodifluoromethane

Concen: 46.930 ug/L

RT: 1.20 min Scan# 35

Delta R.T. -0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

Instrument :

MSVOA_U

ClientSampleId :

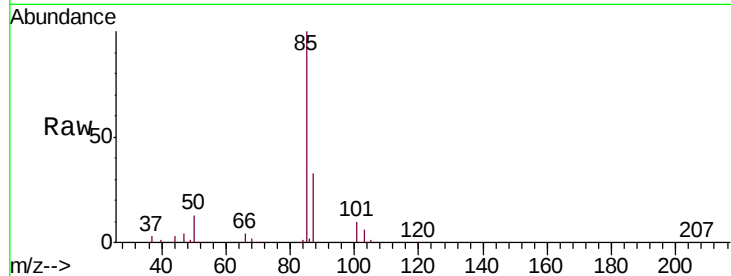
VSTD05052

Tgt Ion: 85 Resp: 107397

Ion Ratio Lower Upper

85 100

87 32.6 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU032777.D (-27) (-)

Ion 87.00 (86.70 to 87.70): VU032777.D (-27) (-)

1.20

120000

100000

80000

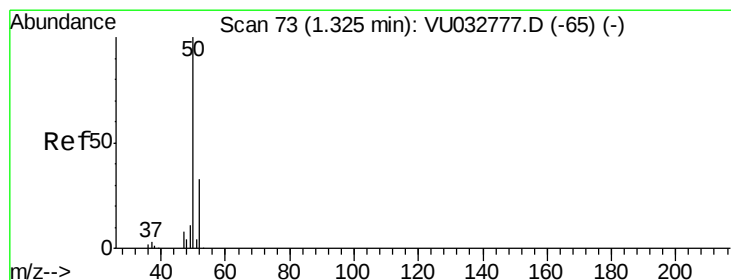
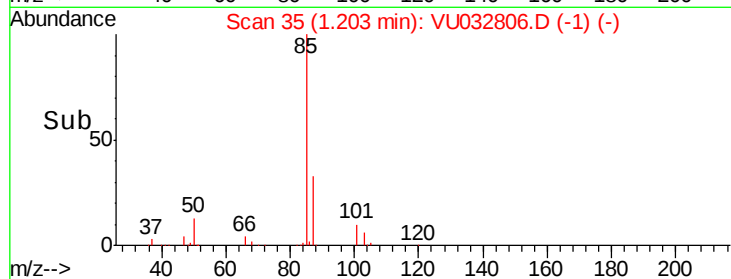
60000

40000

20000

0

Time--> 1.15 1.20 1.25



#3

Chloromethane

Concen: 46.995 ug/L

RT: 1.32 min Scan# 73

Delta R.T. -0.00 min

Lab File: VU032806.D

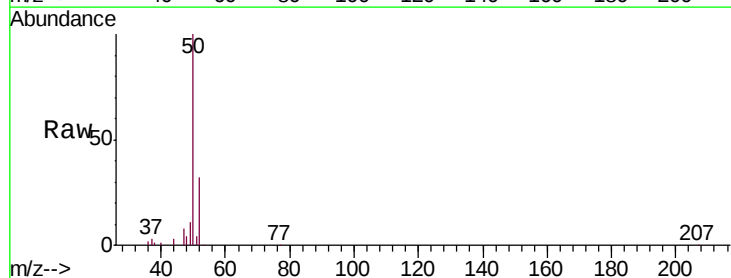
Acq: 18 Jun 2019 00:41

Tgt Ion: 50 Resp: 97474

Ion Ratio Lower Upper

50 100

52 32.2 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU032777.D (-65) (-)

Ion 52.00 (51.70 to 52.70): VU032777.D (-65) (-)

1.32

100000

80000

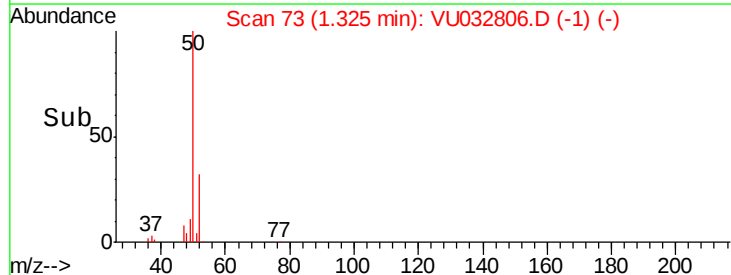
60000

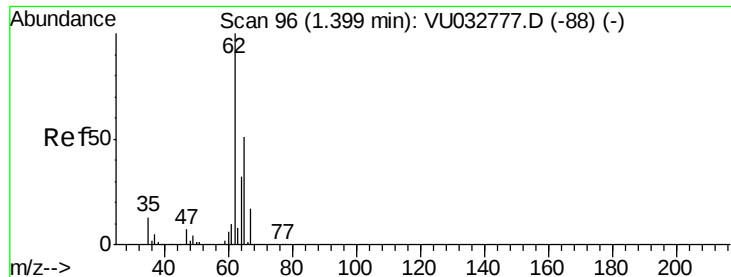
40000

20000

0

Time--> 1.30 1.35 1.40





#5

Vinyl chloride

Concen: 47.288 ug/L

RT: 1.40 min Scan# 96

Delta R.T. -0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

Instrument :

MSVOA_U

ClientSampleId :

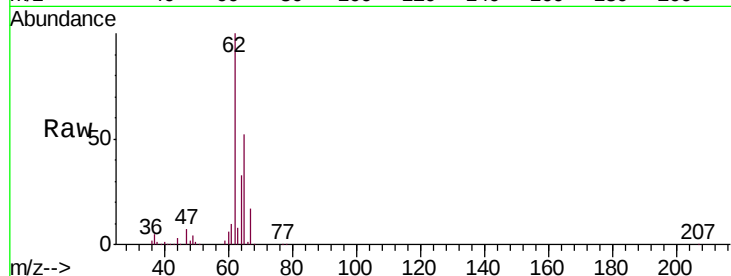
VSTD05052

Tgt Ion: 62 Resp: 97284

Ion Ratio Lower Upper

62 100

64 33.4 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU032777.D (-88) (-)

Ion 64.00 (63.70 to 64.70): VU032777.D (-88) (-)

1.40

100000

80000

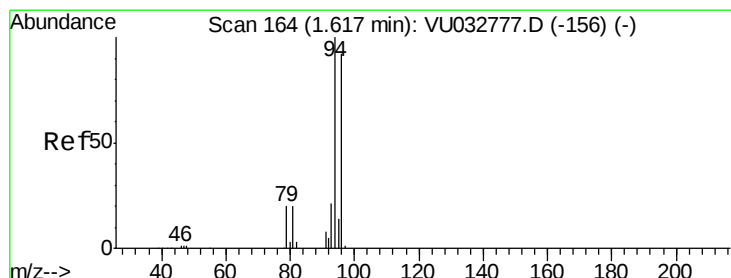
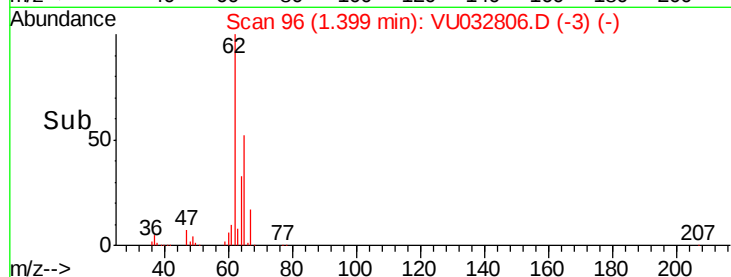
60000

40000

20000

0

Time-->



#6

Bromomethane

Concen: 46.927 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU032806.D

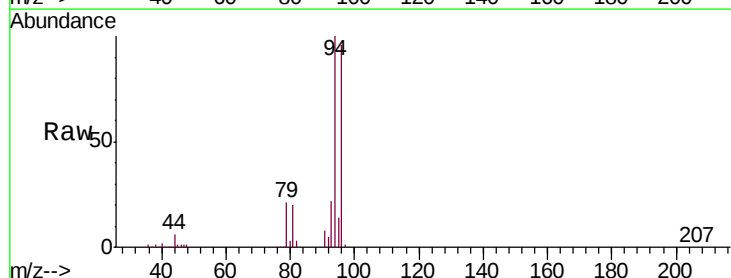
Acq: 18 Jun 2019 00:41

Tgt Ion: 94 Resp: 56809

Ion Ratio Lower Upper

94 100

96 96.2 64.8 120.4



Abundance Ion 94.00 (93.70 to 94.70): VU032777.D (-156) (-)

Ion 96.00 (95.70 to 96.70): VU032777.D (-156) (-)

1.62

50000

40000

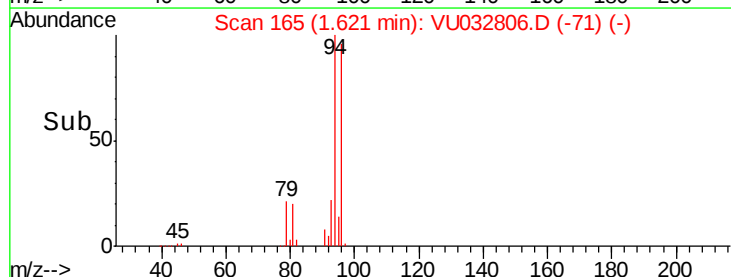
30000

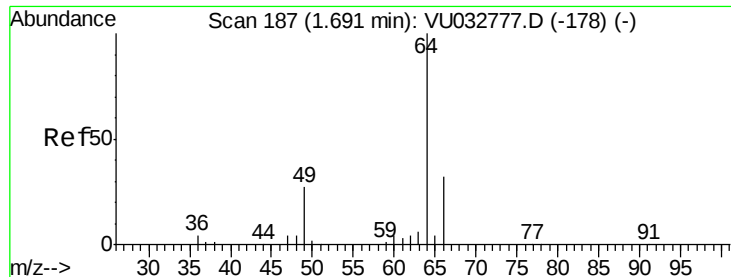
20000

10000

0

Time-->





#8

Chloroethane

Concen: 47.815 ug/L

RT: 1.69 min Scan# 187

Delta R.T. -0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

Instrument :

MSVOA_U

ClientSampleId :

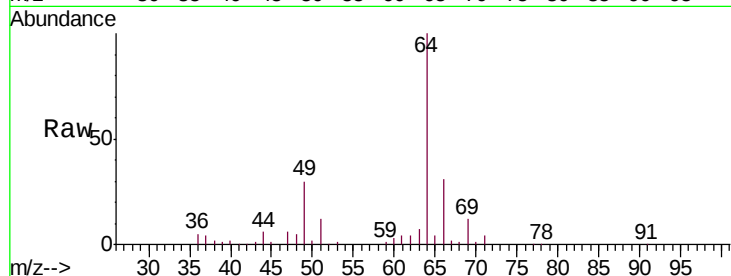
VSTD05052

Tgt Ion: 64 Resp: 56624

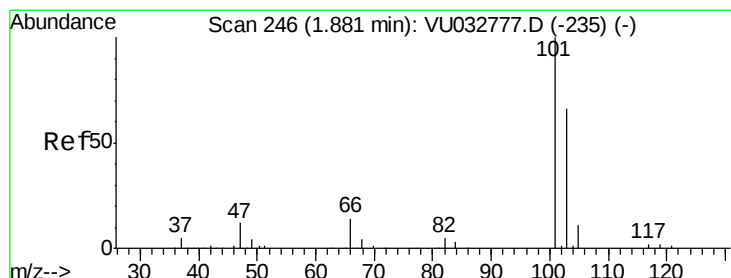
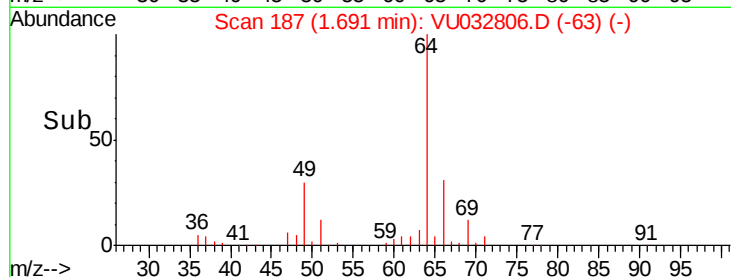
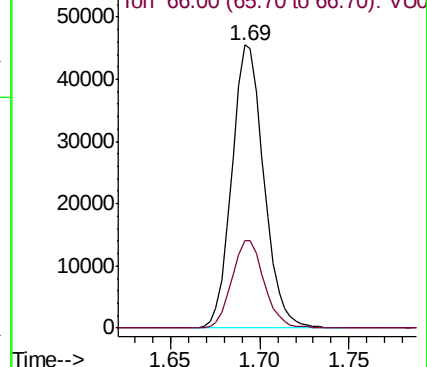
Ion Ratio Lower Upper

64 100

66 30.7 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VU032777.D (-178) (-)



#9

Trichlorofluoromethane

Concen: 47.306 ug/L

RT: 1.88 min Scan# 246

Delta R.T. -0.00 min

Lab File: VU032806.D

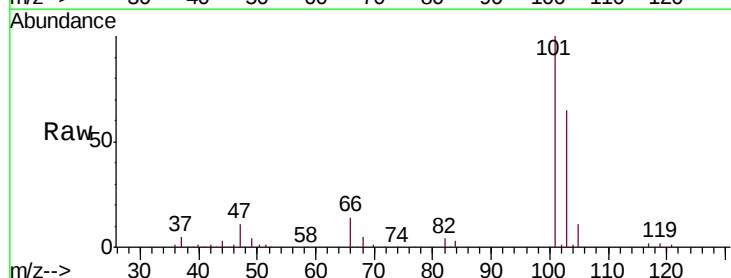
Acq: 18 Jun 2019 00:41

Tgt Ion: 101 Resp: 136536

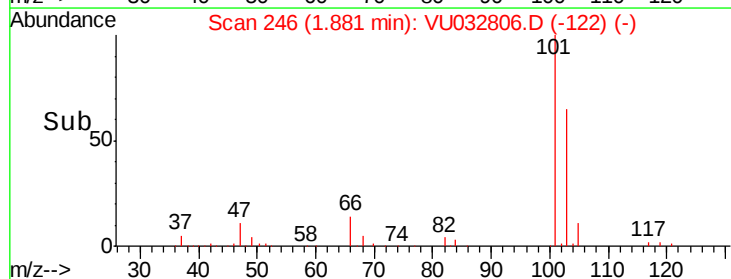
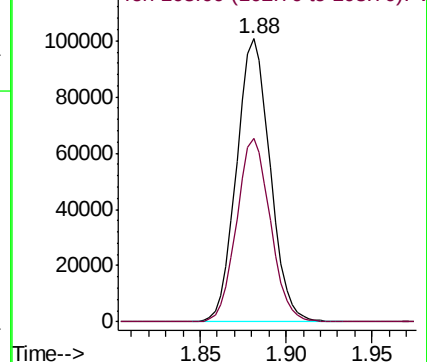
Ion Ratio Lower Upper

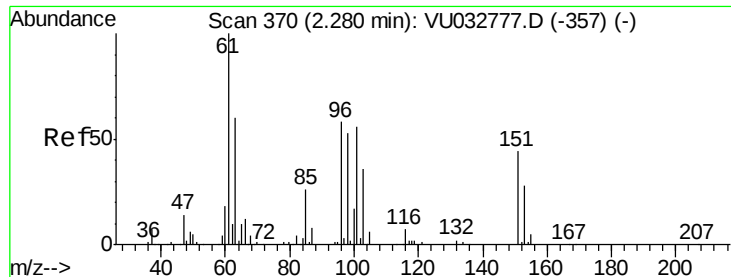
101 100

103 65.2 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): VU032777.D (-235) (-)





#10

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

Concen: 45.902 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

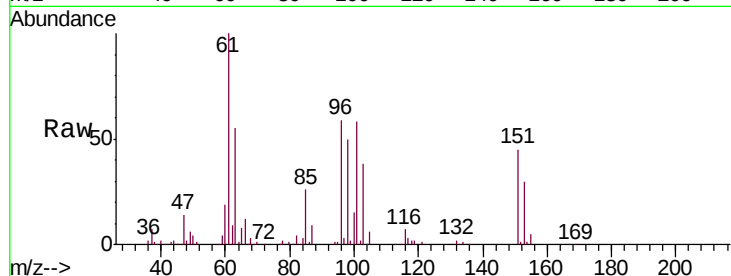
Tgt Ion: 101 Resp: 69491

Ion Ratio Lower Upper

101 100

85 45.2 36.8 55.2

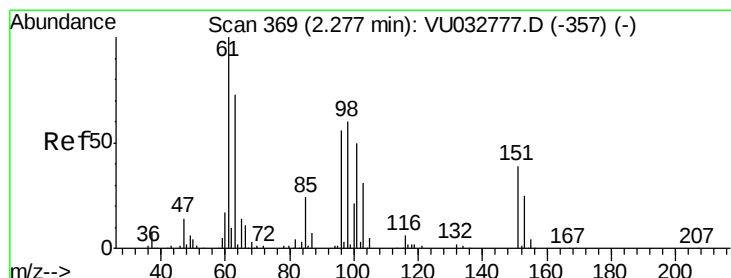
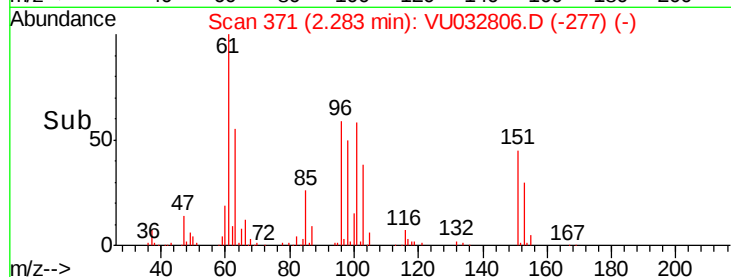
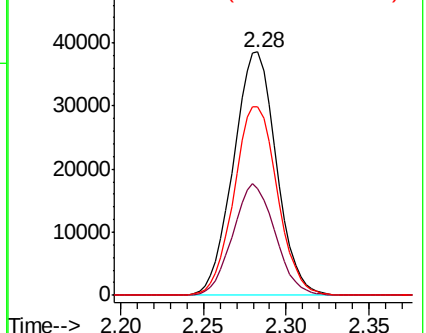
151 78.3 63.6 95.4



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: 47.231 ug/L

RT: 2.28 min Scan# 369

Delta R.T. -0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

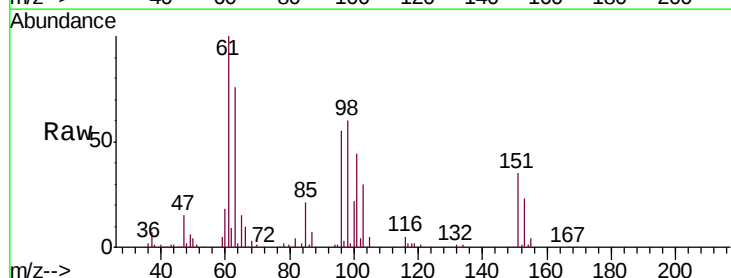
Tgt Ion: 96 Resp: 67383

Ion Ratio Lower Upper

96 100

61 182.0 131.0 243.4

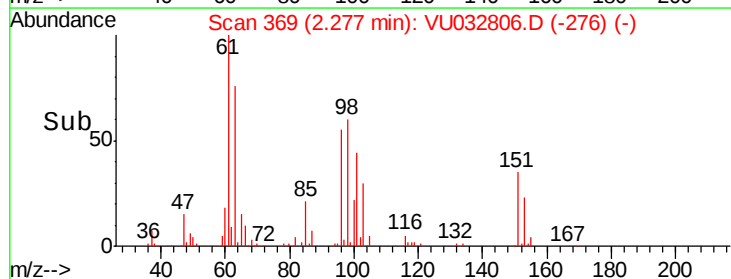
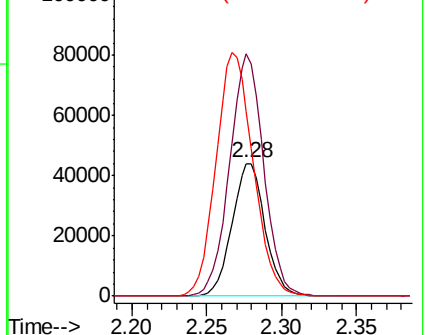
63 139.1 101.0 187.6

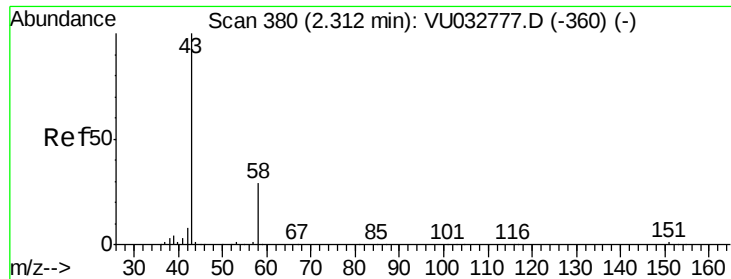


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 56.228 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

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Instrument :

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ClientSampleId :

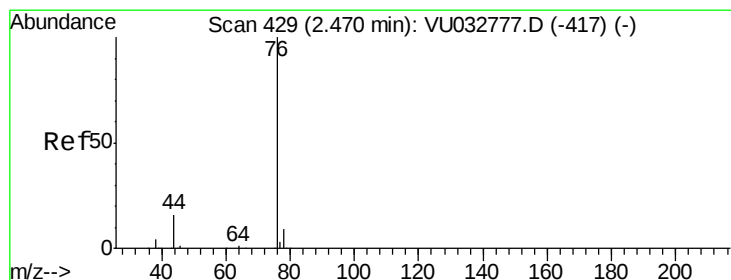
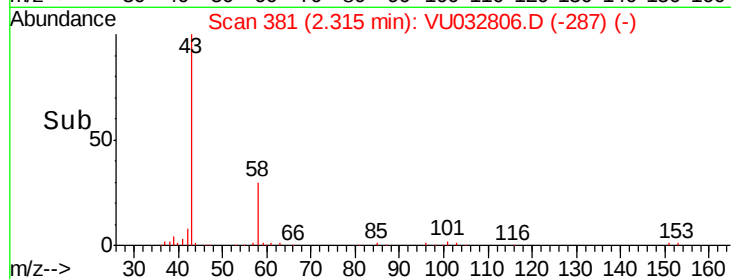
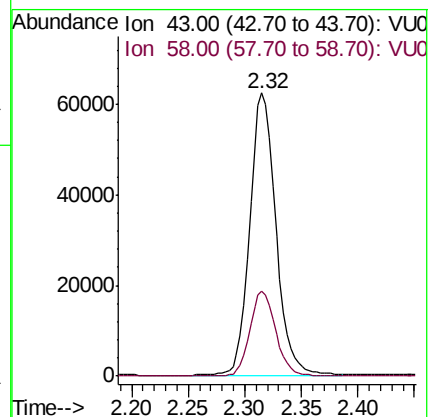
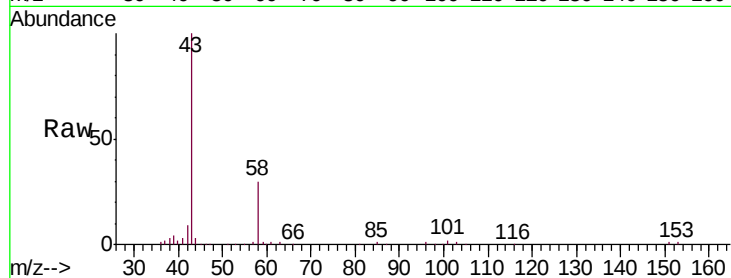
VSTD05052

Tgt Ion: 43 Resp: 100082

Ion Ratio Lower Upper

43 100

58 29.8 0.0 60.6



#14

Carbon disulfide

Concen: 45.986 ug/L

RT: 2.47 min Scan# 429

Delta R.T. -0.00 min

Lab File: VU032806.D

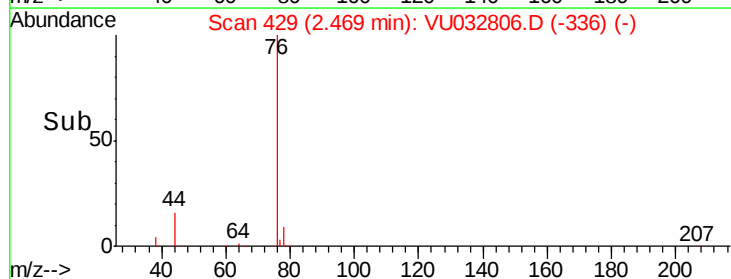
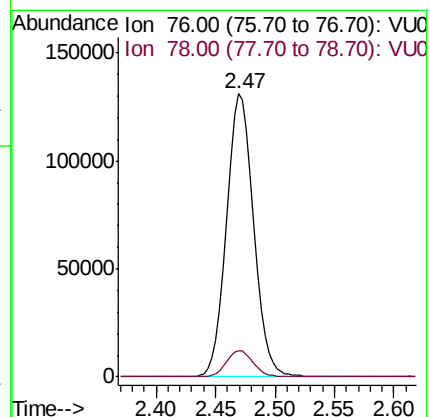
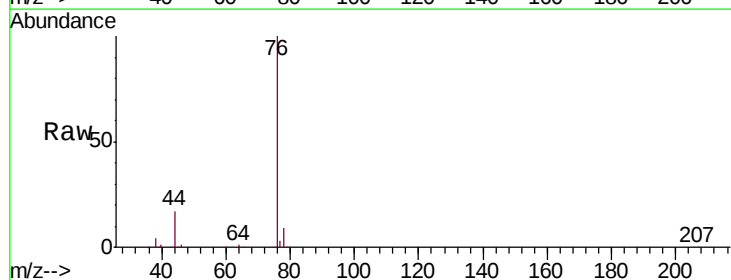
Acq: 18 Jun 2019 00:41

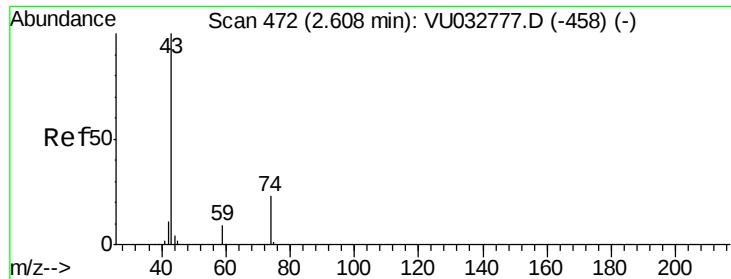
Tgt Ion: 76 Resp: 207596

Ion Ratio Lower Upper

76 100

78 9.4 7.3 10.9

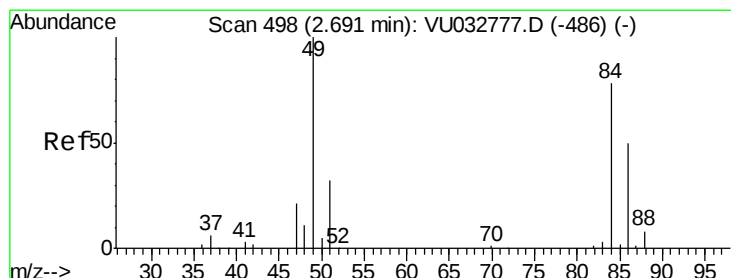
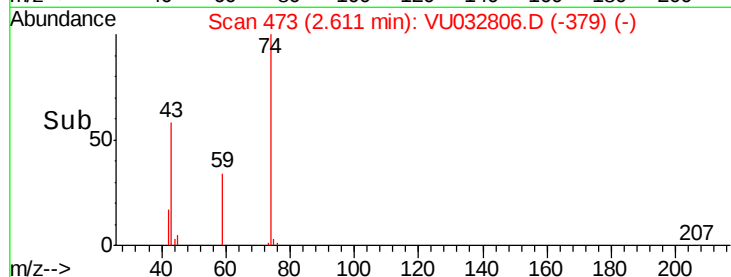
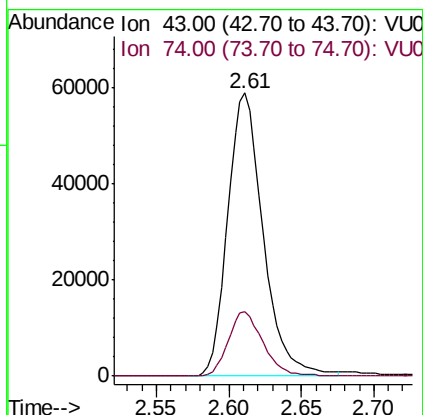
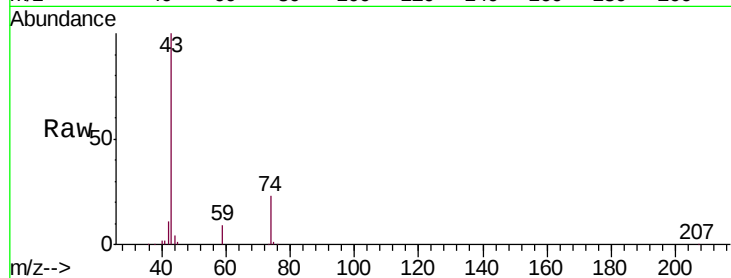




#15
Methyl Acetate
Concen: 49.725 ug/L
RT: 2.61 min Scan# 473
Delta R.T. 0.00 min
Lab File: VU032806.D
Acq: 18 Jun 2019 00:41

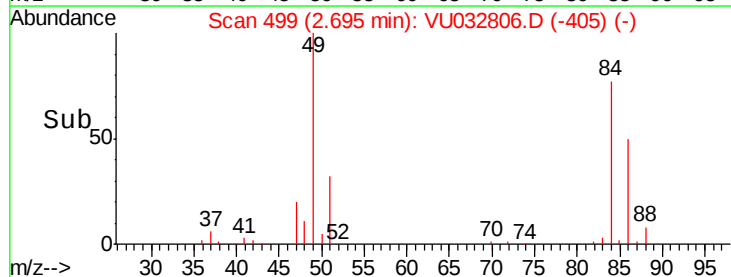
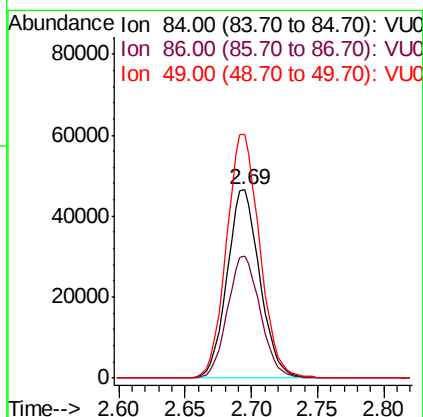
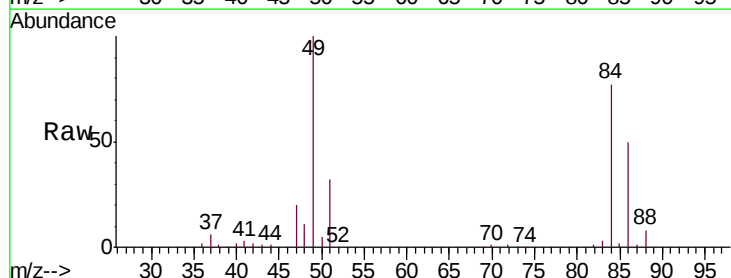
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

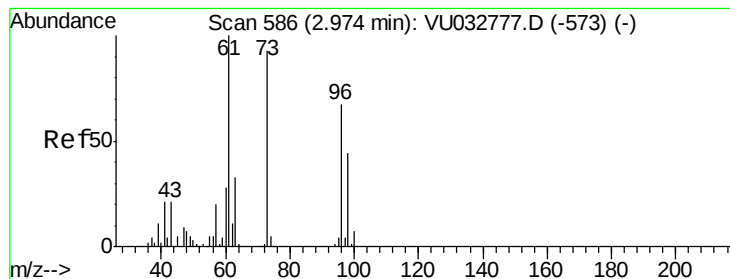
Tgt Ion: 43 Resp: 100328
Ion Ratio Lower Upper
43 100
74 22.3 18.1 27.1



#16
Methylene chloride
Concen: 47.662 ug/L
RT: 2.69 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU032806.D
Acq: 18 Jun 2019 00:41

Tgt Ion: 84 Resp: 79790
Ion Ratio Lower Upper
84 100
86 65.1 45.5 84.5
49 129.2 92.1 171.1





#17

trans-1,2-Dichloroethene

Concen: 47.924 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

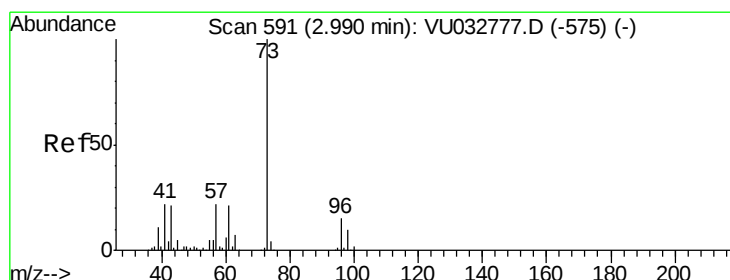
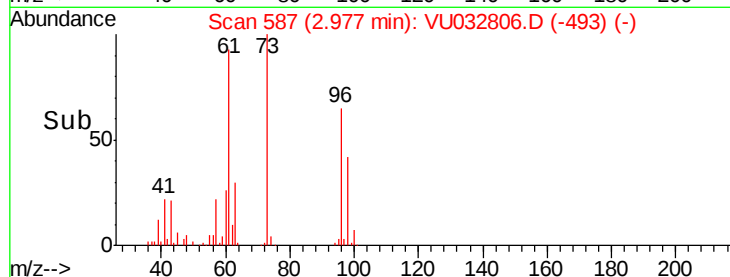
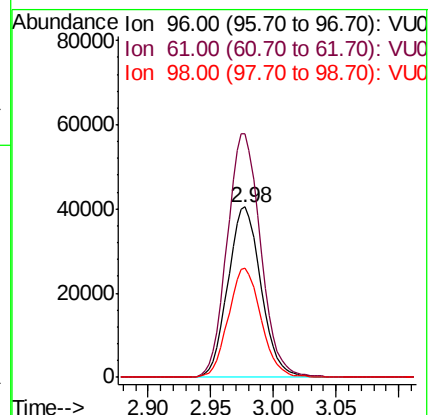
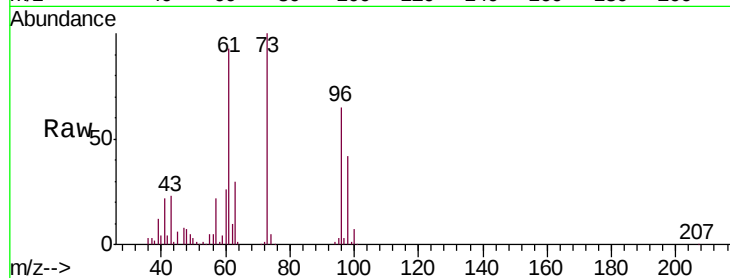
Tgt Ion: 96 Resp: 74143

Ion Ratio Lower Upper

96 100

61 142.7 100.9 187.5

98 64.2 44.0 81.8



#18

Methyl tert-butyl Ether

Concen: 49.434 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

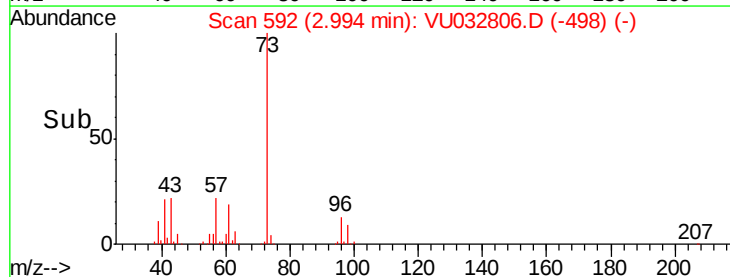
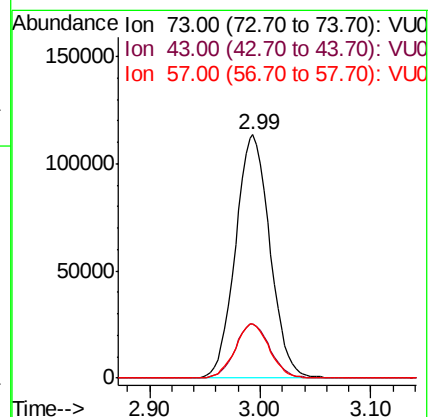
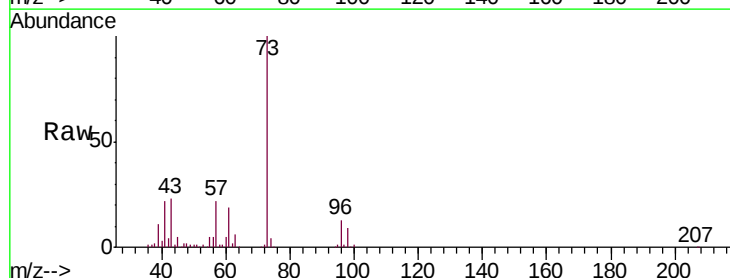
Tgt Ion: 73 Resp: 245544

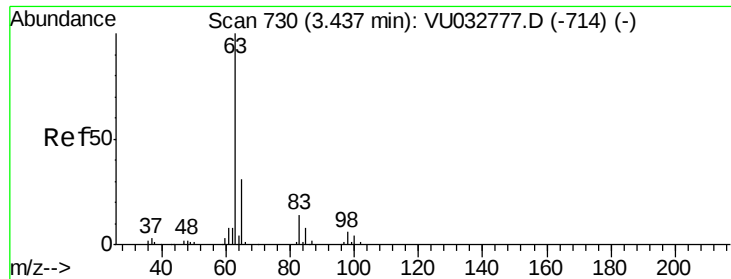
Ion Ratio Lower Upper

73 100

43 22.7 17.8 26.8

57 22.1 17.8 26.6





#19

1,1-Dichloroethane

Concen: 48.424 ug/L

RT: 3.44 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

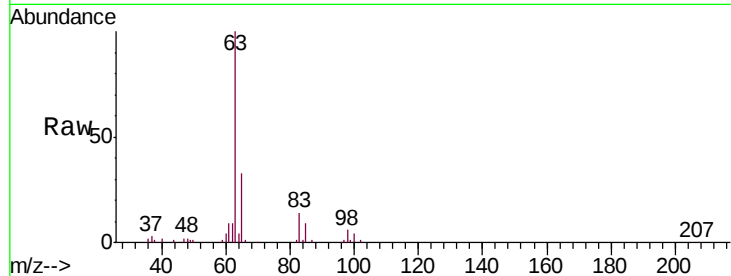
Tgt Ion: 63 Resp: 142825

Ion Ratio Lower Upper

63 100

65 32.5 22.0 41.0

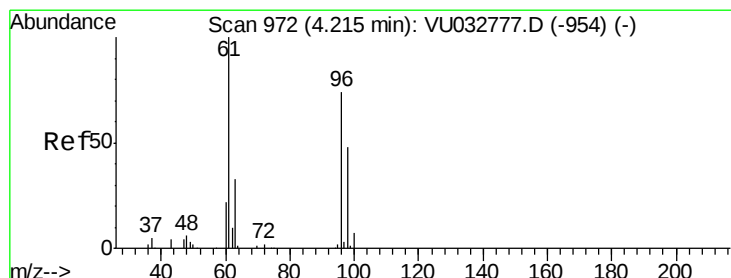
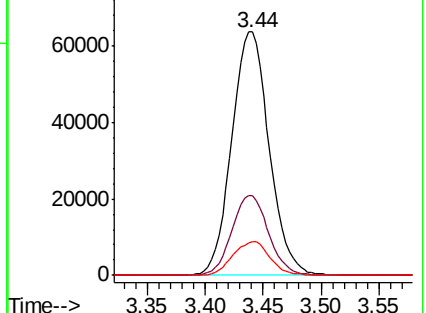
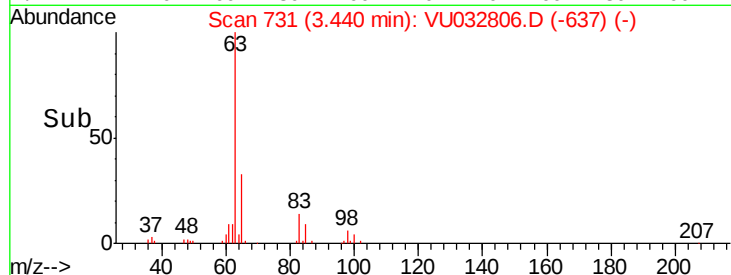
83 13.7 9.5 17.7



Abundance Ion 63.00 (62.70 to 63.70): VU032806.D (-637) (-)

Ion 65.00 (64.70 to 65.70): VU032806.D (-637) (-)

Ion 83.00 (82.70 to 83.70): VU032806.D (-637) (-)



#20

cis-1,2-Dichloroethene

Concen: 50.433 ug/L

RT: 4.22 min Scan# 973

Delta R.T. 0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

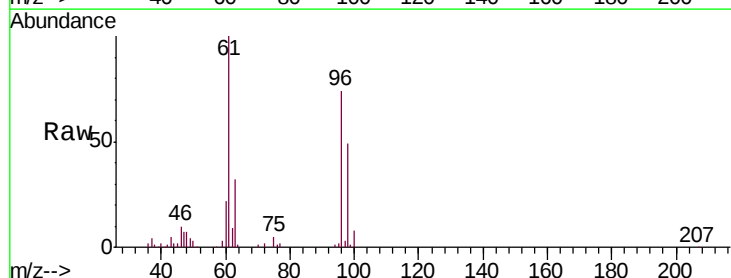
Tgt Ion: 96 Resp: 84999

Ion Ratio Lower Upper

96 100

61 135.4 92.4 171.6

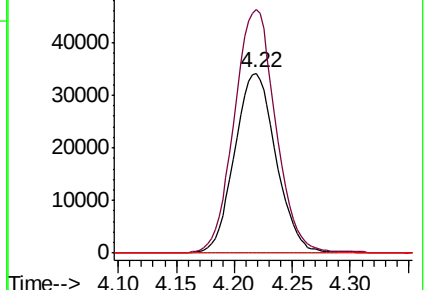
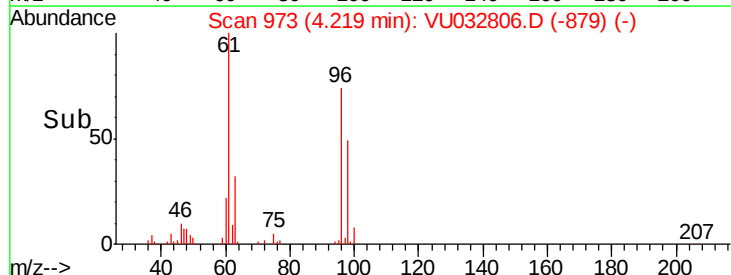
68 0.0 0.0 0.0

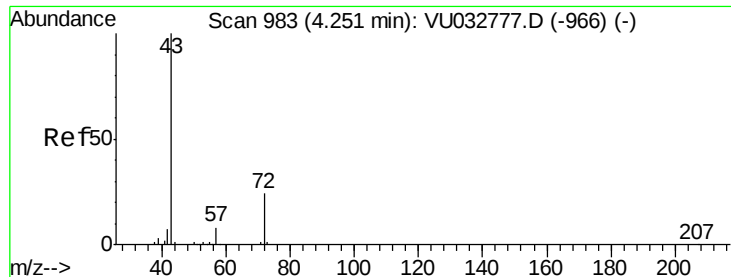


Abundance Ion 96.00 (95.70 to 96.70): VU032806.D (-879) (-)

Ion 61.00 (60.70 to 61.70): VU032806.D (-879) (-)

Ion 68.00 (67.70 to 68.70): VU032806.D (-879) (-)





#22

2-Butanone

Concen: 79.463 ug/L

RT: 4.25 min Scan# 984

Delta R.T. 0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

Instrument :

MSVOA_U

ClientSampleId :

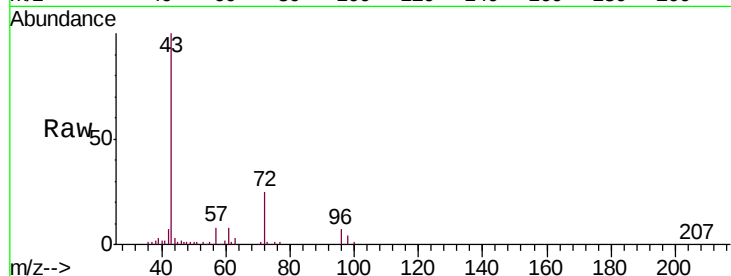
VSTD05052

Tgt Ion: 43 Resp: 146599

Ion Ratio Lower Upper

43 100

72 25.2 12.9 38.6



Abundance Ion 43.00 (42.70 to 43.70): VU032777.D (-966) (-)

Ion 72.00 (71.70 to 72.70): VU032777.D (-966) (-)

4.25

60000

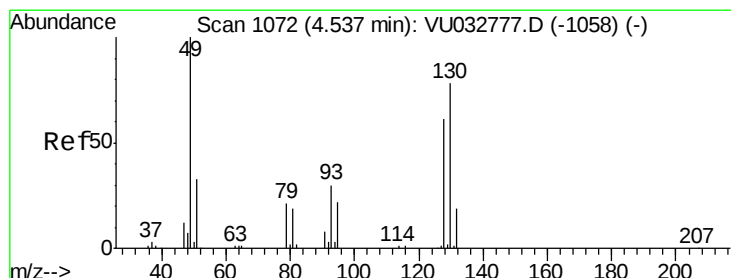
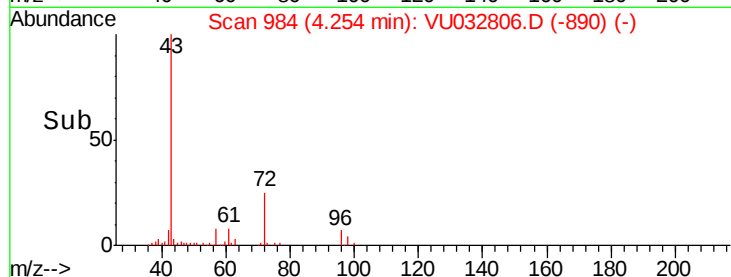
40000

20000

0

Time-->

4.20 4.30 4.40



#23

Bromochloromethane

Concen: 49.094 ug/L

RT: 4.54 min Scan# 1073

Delta R.T. 0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

Tgt Ion: 128 Resp: 43165

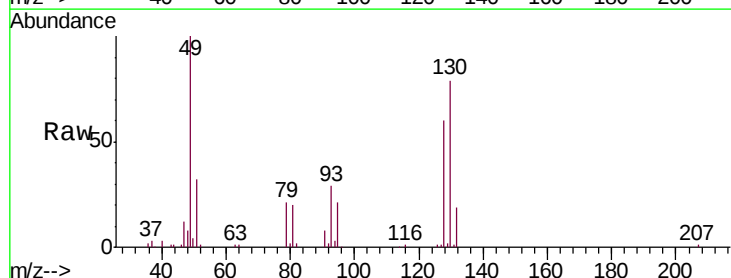
Ion Ratio Lower Upper

128 100

49 165.3 114.7 212.9

130 131.4 89.4 166.0

51 52.9 42.0 63.0



Abundance Ion 128.00 (127.70 to 128.70): VU032777.D (-1058) (-)

Ion 49.00 (48.70 to 49.70): VU032777.D (-1058) (-)

Ion 130.00 (129.70 to 130.70): VU032777.D (-1058) (-)

Ion 51.00 (50.70 to 51.70): VU032777.D (-1058) (-)

4.54

40000

30000

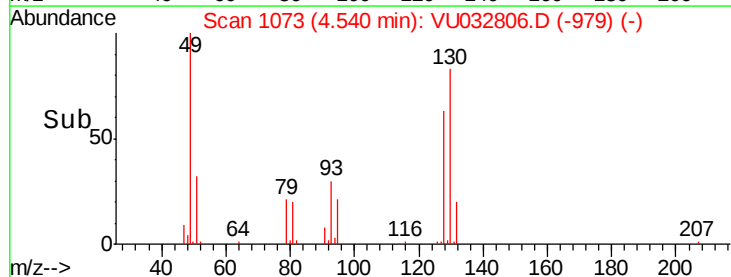
20000

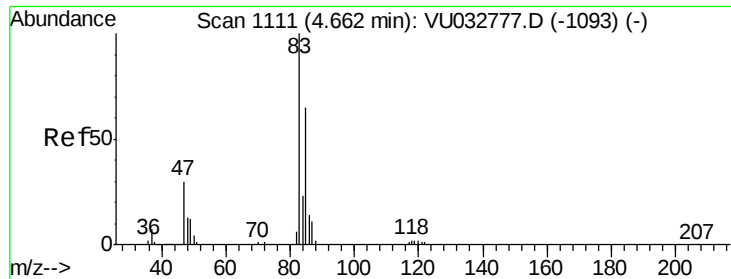
10000

0

Time-->

4.45 4.50 4.55 4.60 4.65

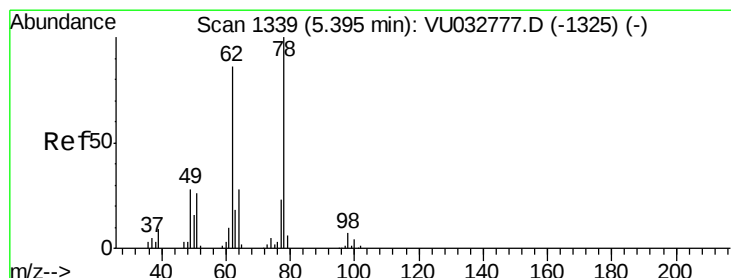
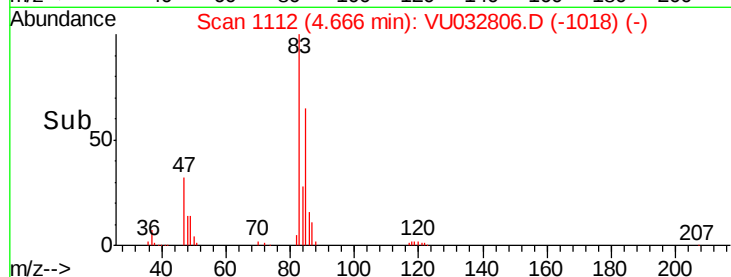
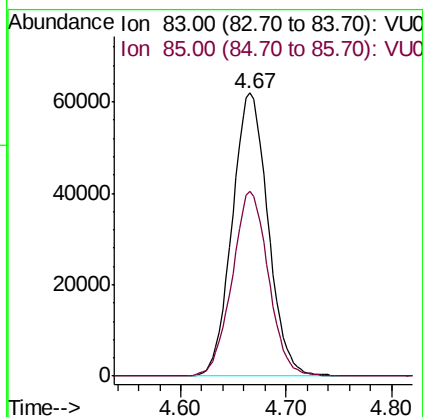
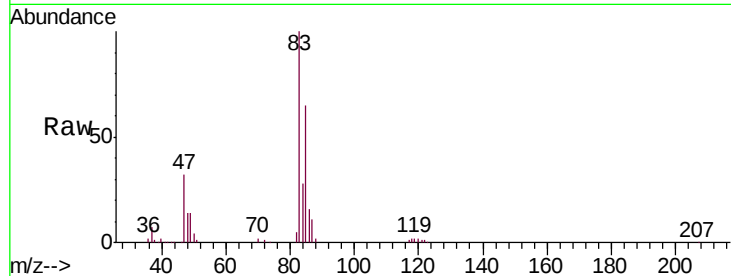




#25
Chloroform
Concen: 48.043 ug/L
RT: 4.67 min Scan# 1112
Delta R.T. 0.00 min
Lab File: VU032806.D
Acq: 18 Jun 2019 00:41

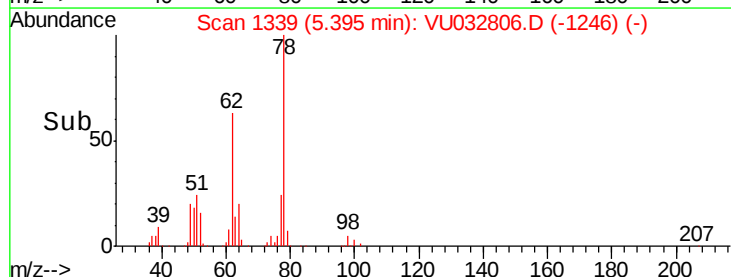
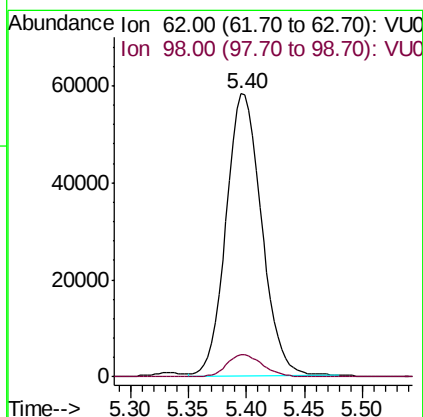
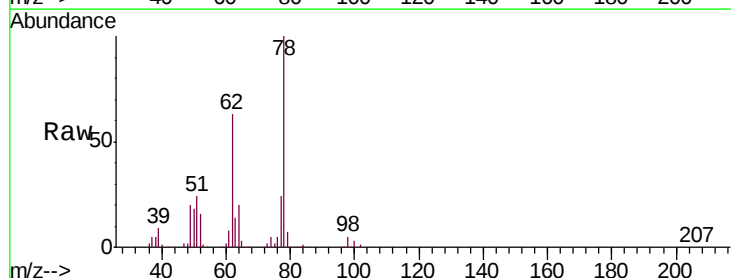
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

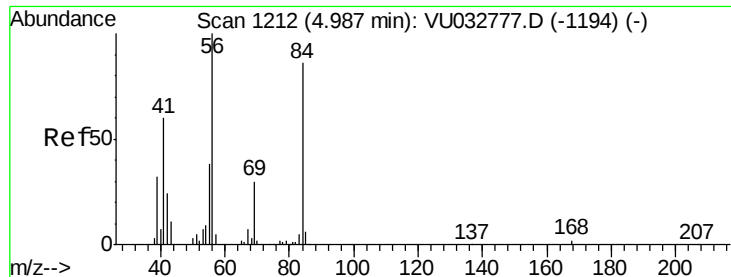
Tgt Ion: 83 Resp: 146129
Ion Ratio Lower Upper
83 100
85 65.1 44.2 82.2



#27
1,2-Dichloroethane
Concen: 49.632 ug/L
RT: 5.40 min Scan# 1339
Delta R.T. -0.00 min
Lab File: VU032806.D
Acq: 18 Jun 2019 00:41

Tgt Ion: 62 Resp: 124016
Ion Ratio Lower Upper
62 100
98 7.9 6.6 10.0

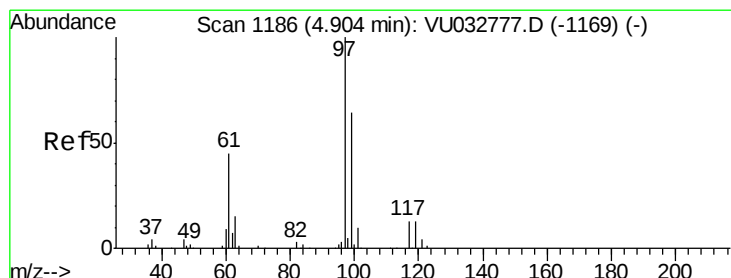
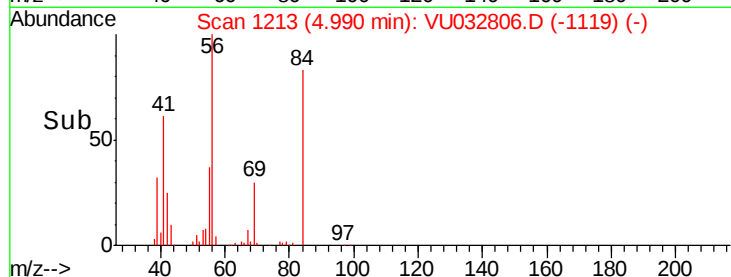
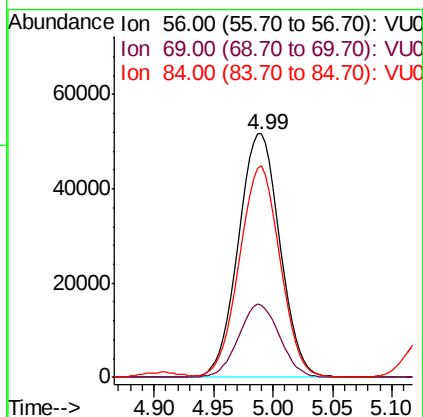
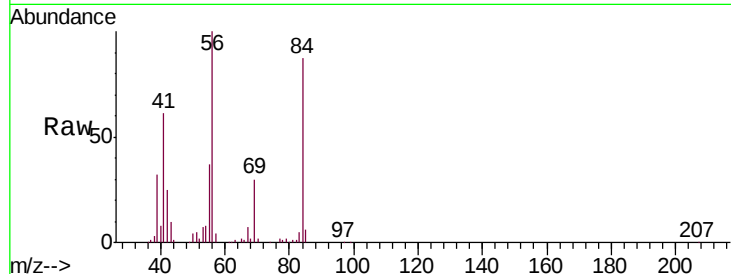




#29
Cyclohexane
Concen: 48.627 ug/L
RT: 4.99 min Scan# 1213
Delta R.T. 0.00 min
Lab File: VU032806.D
Acq: 18 Jun 2019 00:41

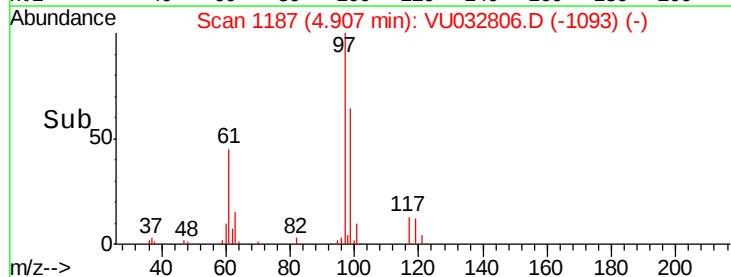
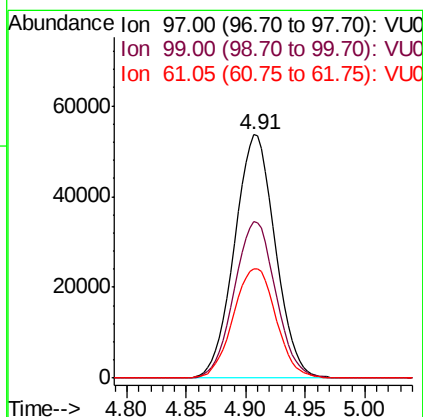
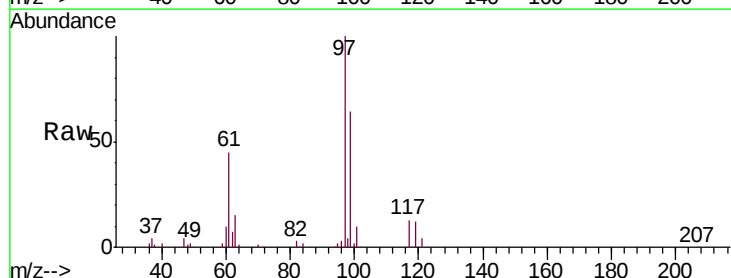
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

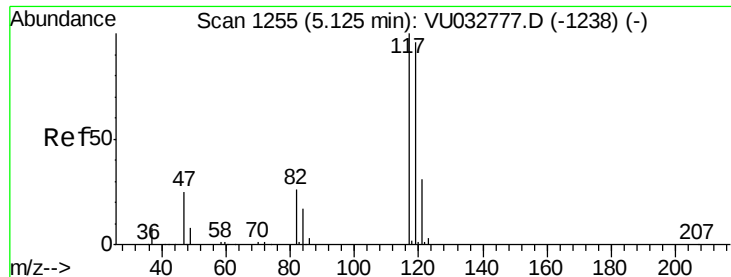
Tgt Ion: 56 Resp: 125398
Ion Ratio Lower Upper
56 100
69 29.5 24.2 36.4
84 84.9 68.0 102.0



#30
1,1,1-Trichloroethane
Concen: 47.427 ug/L
RT: 4.91 min Scan# 1187
Delta R.T. 0.00 min
Lab File: VU032806.D
Acq: 18 Jun 2019 00:41

Tgt Ion: 97 Resp: 127611
Ion Ratio Lower Upper
97 100
99 65.2 50.7 76.1
61 47.2 36.7 55.1





#31

Carbon tetrachloride

Concen: 46.996 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

Instrument :

MSVOA_U

ClientSampleId :

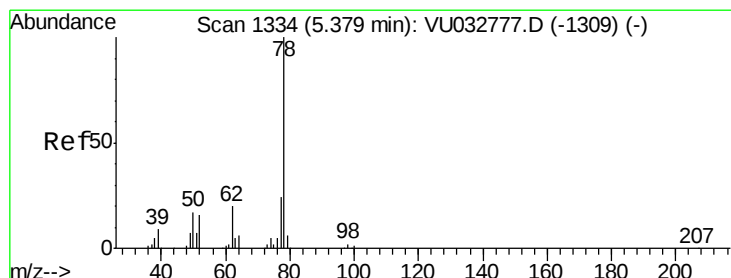
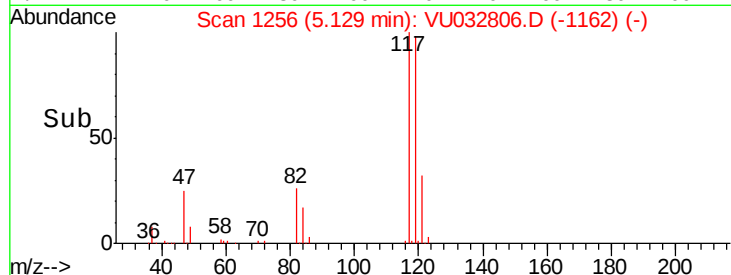
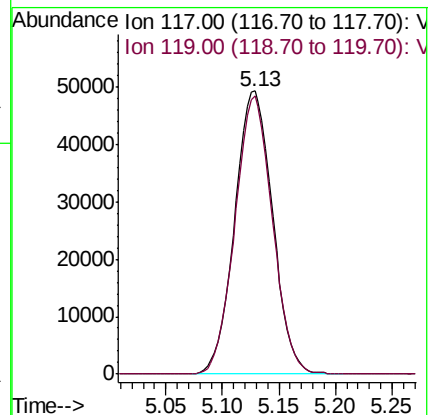
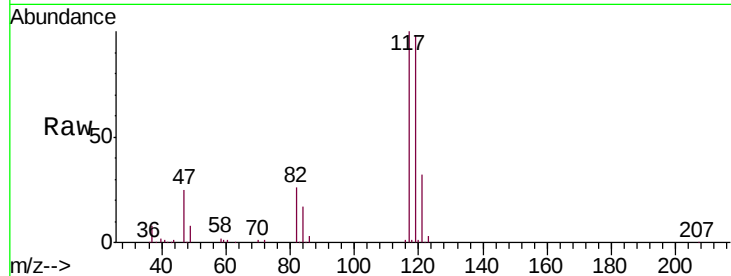
VSTD05052

Tgt Ion:117 Resp: 115058

Ion Ratio Lower Upper

117 100

119 97.0 76.3 114.5



#33

Benzene

Concen: 48.821 ug/L

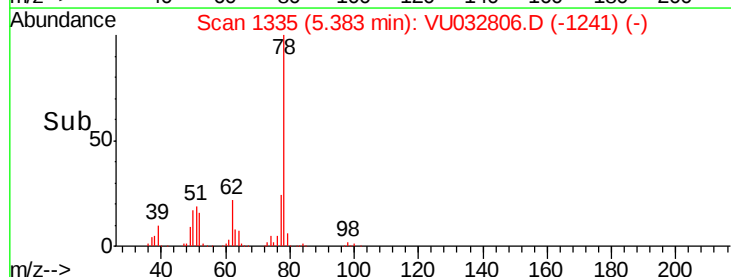
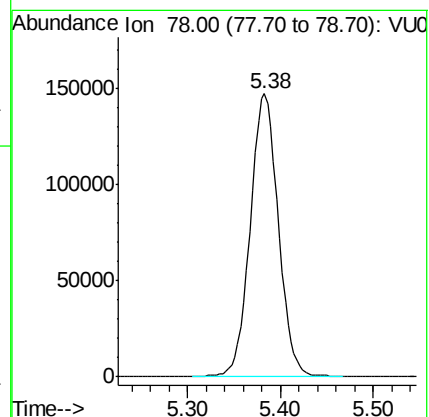
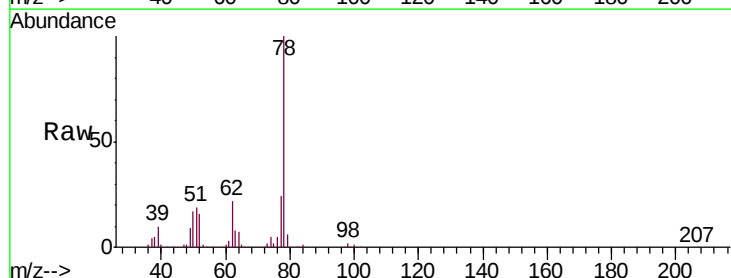
RT: 5.38 min Scan# 1335

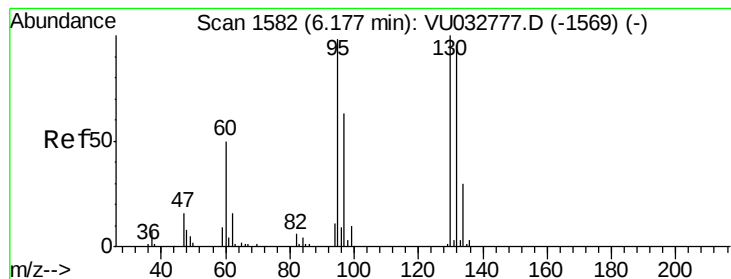
Delta R.T. 0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

Tgt Ion: 78 Resp: 310607





#34

Trichloroethene

Concen: 48.343 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

Tgt Ion: 95 Resp: 82178

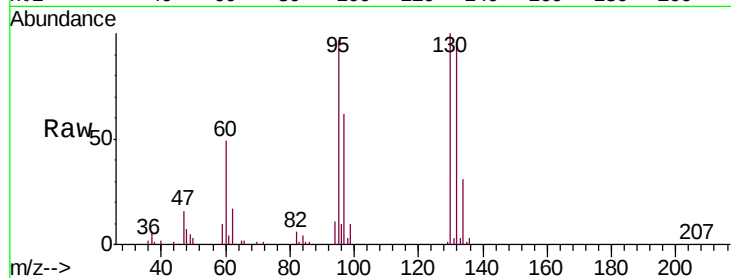
Ion Ratio Lower Upper

95 100

97 63.5 45.9 85.3

132 98.9 68.5 127.3

130 102.6 70.8 131.4

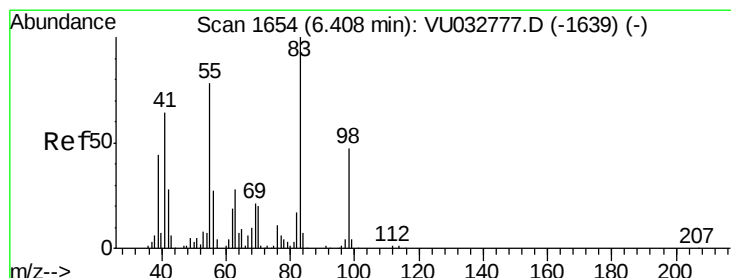
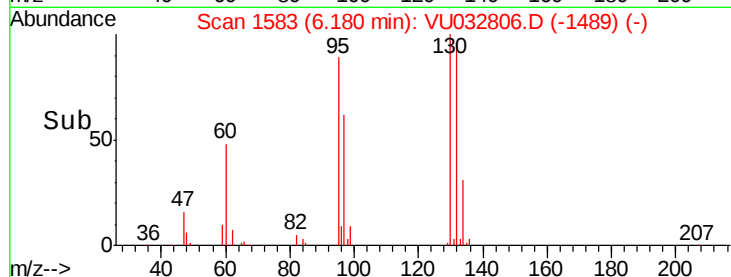
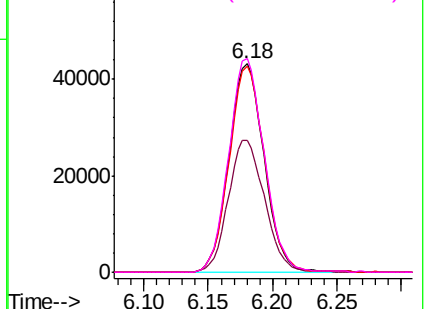


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 48.049 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. -0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

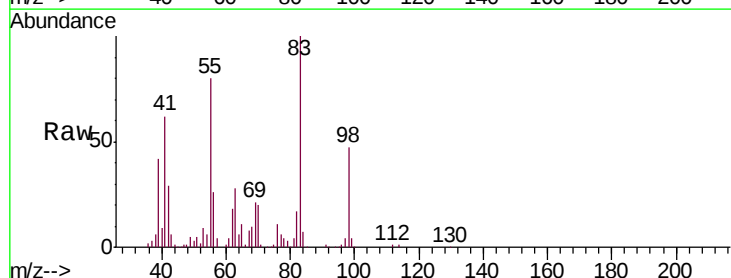
Tgt Ion: 83 Resp: 126252

Ion Ratio Lower Upper

83 100

55 77.6 62.6 94.0

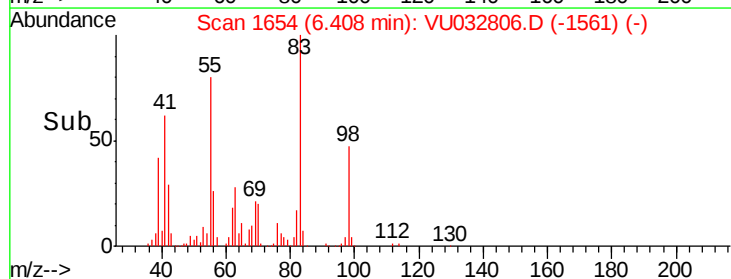
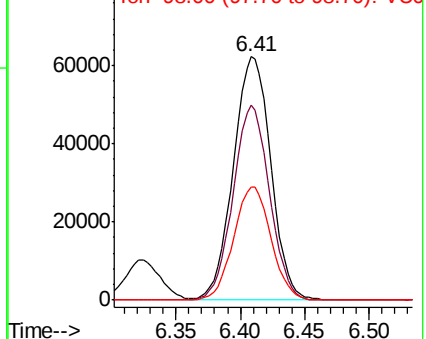
98 46.3 37.4 56.0

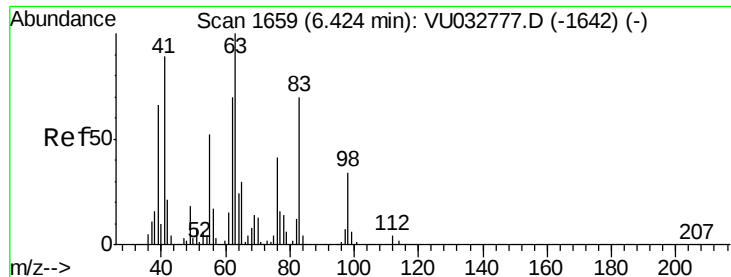


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 48.962 ug/L

RT: 6.42 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

Instrument :

MSVOA_U

ClientSampleId :

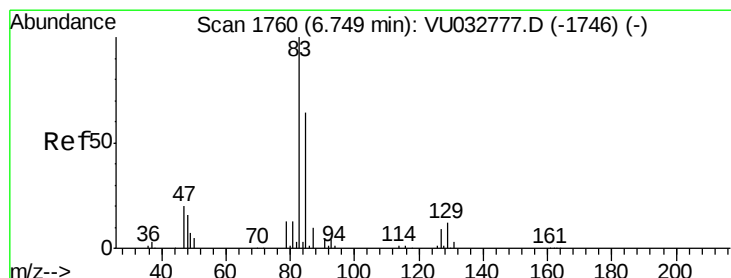
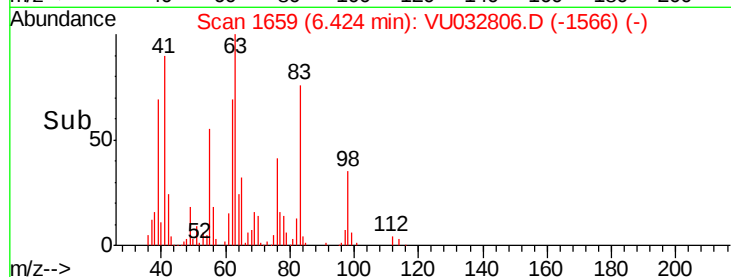
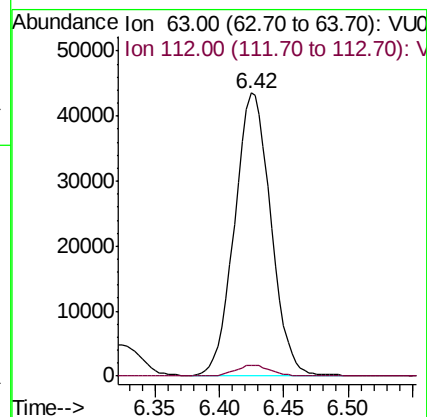
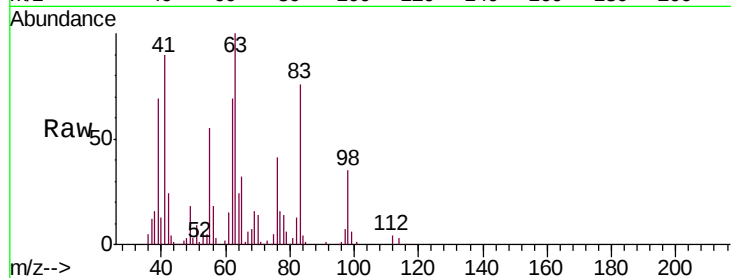
VSTD05052

Tgt Ion: 63 Resp: 85448

Ion Ratio Lower Upper

63 100

112 3.8 3.0 4.6



#38

Bromodichloromethane

Concen: 47.863 ug/L

RT: 6.75 min Scan# 1760

Delta R.T. -0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

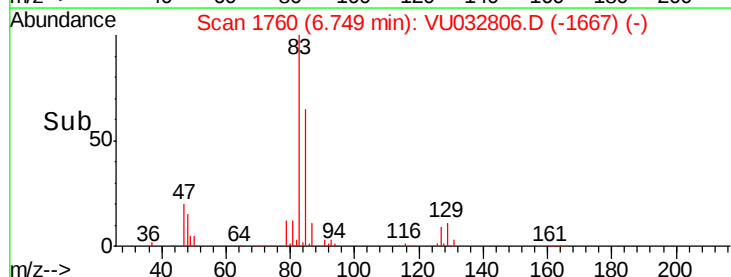
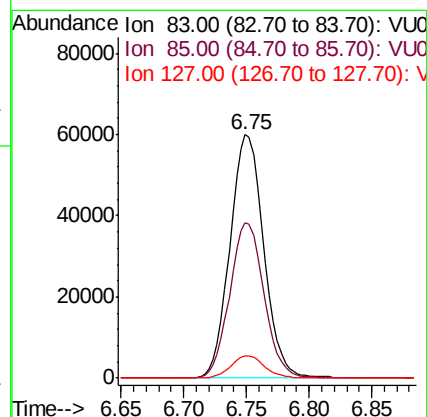
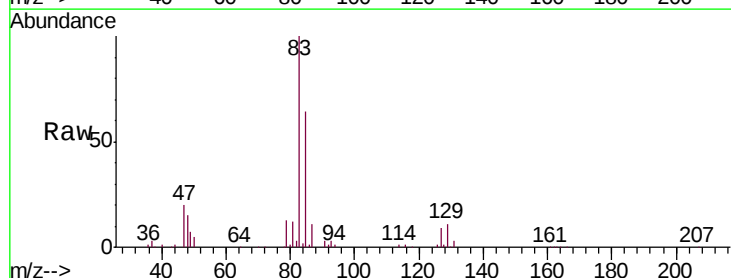
Tgt Ion: 83 Resp: 112318

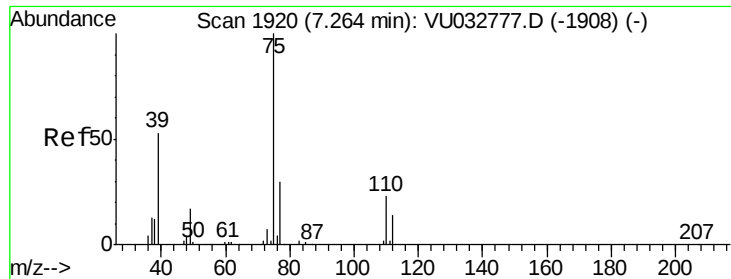
Ion Ratio Lower Upper

83 100

85 63.9 45.0 83.6

127 9.0 7.0 10.6

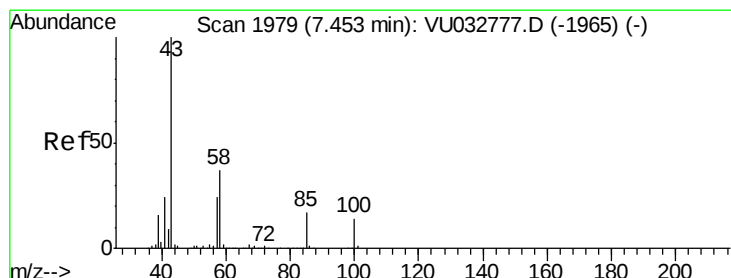
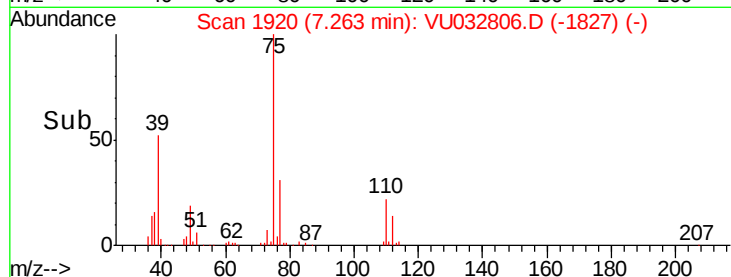
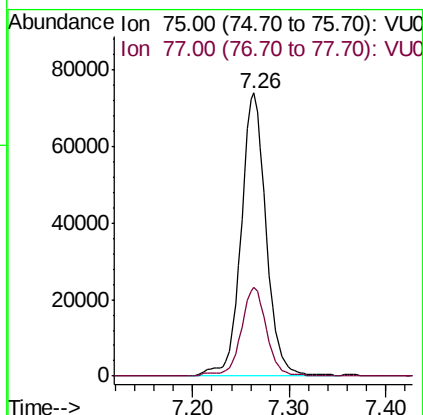
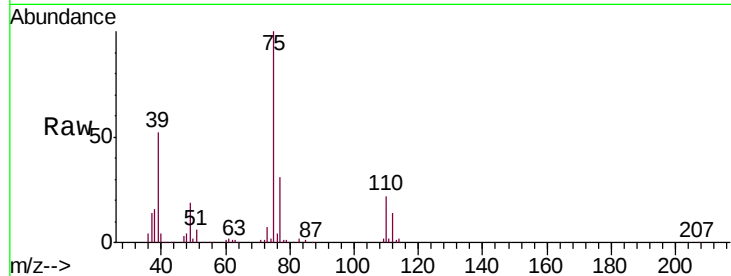




#39
 cis-1,3-Dichloropropene
 Concen: 48.901 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. -0.00 min
 Lab File: VU032806.D
 Acq: 18 Jun 2019 00:41

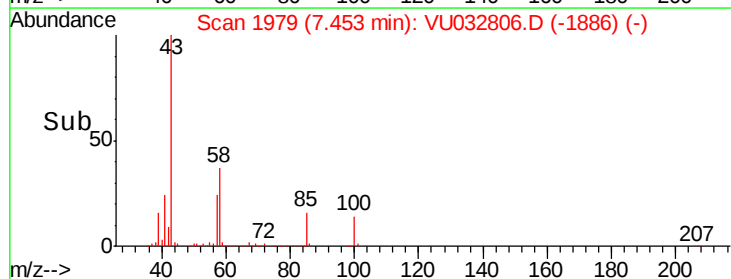
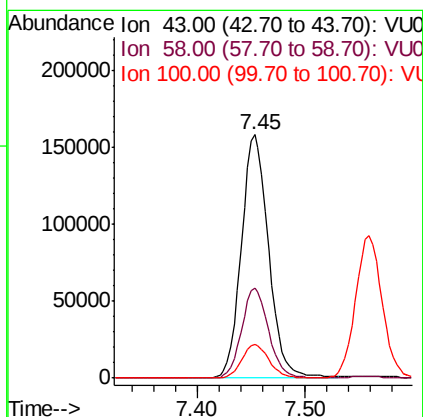
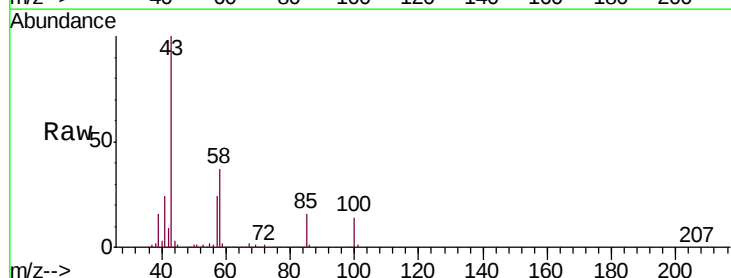
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

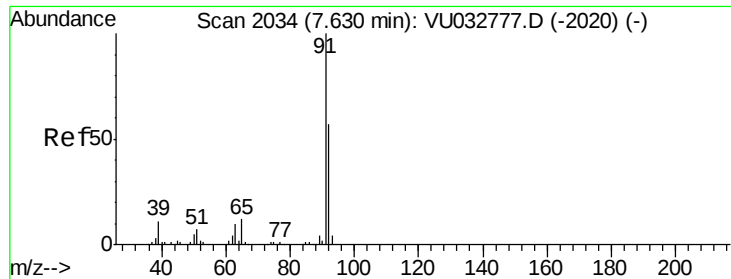
Tgt Ion: 75 Resp: 132958
 Ion Ratio Lower Upper
 75 100
 77 31.3 21.9 40.7



#40
 4-Methyl-2-pentanone
 Concen: 100.183 ug/L
 RT: 7.45 min Scan# 1979
 Delta R.T. -0.00 min
 Lab File: VU032806.D
 Acq: 18 Jun 2019 00:41

Tgt Ion: 43 Resp: 279136
 Ion Ratio Lower Upper
 43 100
 58 36.4 29.4 44.2
 100 13.8 11.2 16.8





#42

Toluene

Concen: 49.432 ug/L

RT: 7.63 min Scan# 2034

Delta R.T. -0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

Instrument :

MSVOA_U

ClientSampleId :

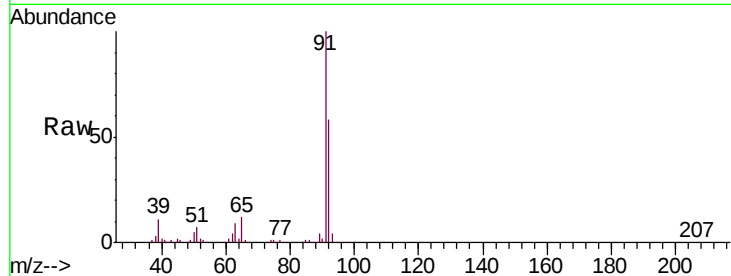
VSTD05052

Tgt Ion: 91 Resp: 340270

Ion Ratio Lower Upper

91 100

92 57.5 40.4 75.0



Abundance Ion 91.00 (90.70 to 91.70): VU032777.D (-2020) (-)

Ion 92.00 (91.70 to 92.70): VU032777.D (-2020) (-)

7.63

200000

150000

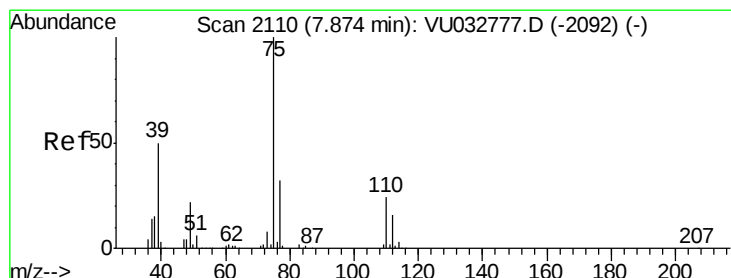
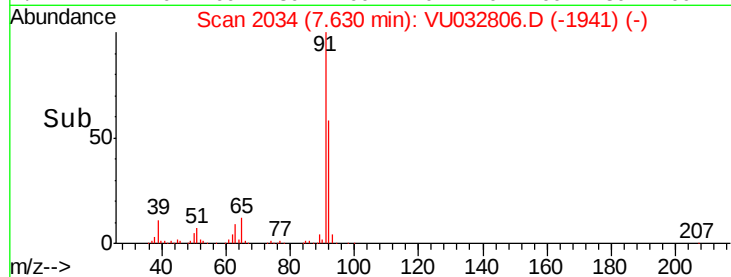
100000

50000

0

7.55 7.60 7.65 7.70

Time-->



#44

trans-1,3-Dichloropropene

Concen: 47.121 ug/L

RT: 7.87 min Scan# 2110

Delta R.T. -0.00 min

Lab File: VU032806.D

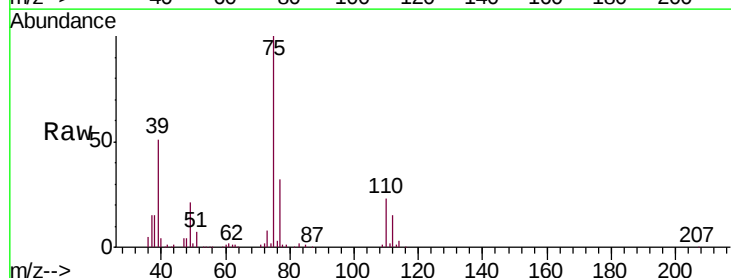
Acq: 18 Jun 2019 00:41

Tgt Ion: 75 Resp: 120336

Ion Ratio Lower Upper

75 100

77 31.5 21.8 40.4



Abundance Ion 75.00 (74.70 to 75.70): VU032777.D (-2092) (-)

Ion 77.00 (76.70 to 77.70): VU032777.D (-2092) (-)

7.87

80000

60000

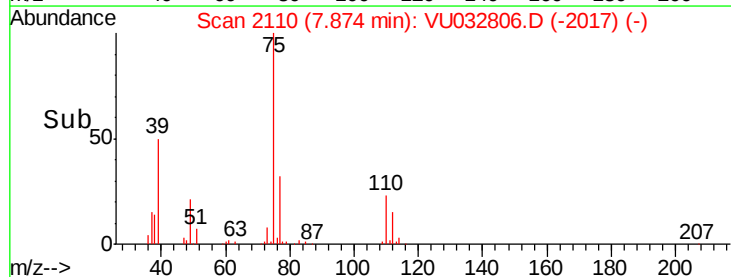
40000

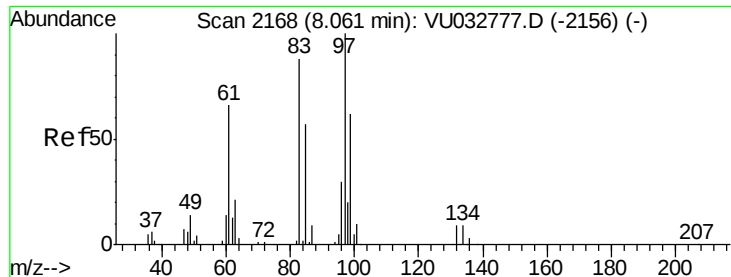
20000

0

7.80 7.85 7.90 7.95

Time-->

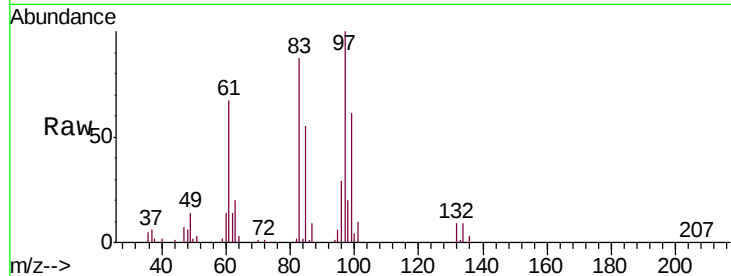




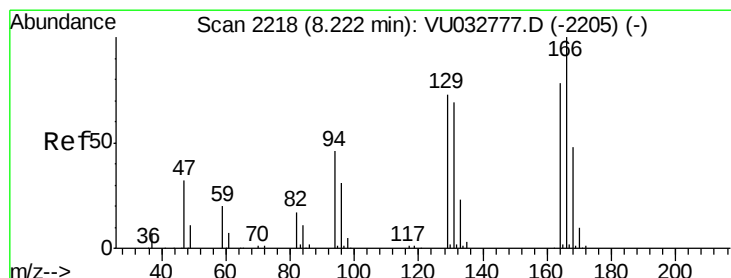
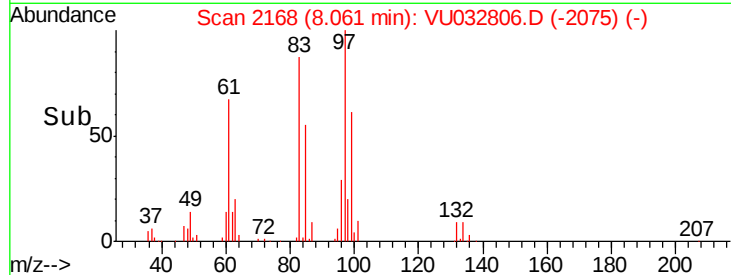
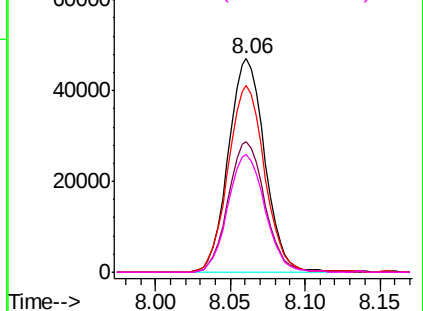
#45
 1,1,2-Trichloroethane
 Concen: 48.977 ug/L
 RT: 8.06 min Scan# 2168
 Delta R.T. -0.00 min
 Lab File: VU032806.D
 Acq: 18 Jun 2019 00:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Tgt Ion:	97	Resp:	79556
Ion	Ratio	Lower	Upper
97	100		
99	61.4	43.1	80.1
83	87.4	61.4	114.0
85	54.9	39.2	72.8

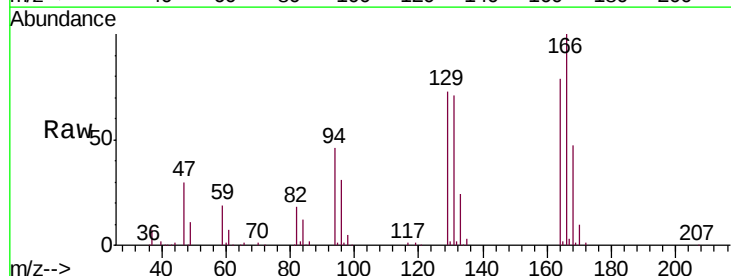


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

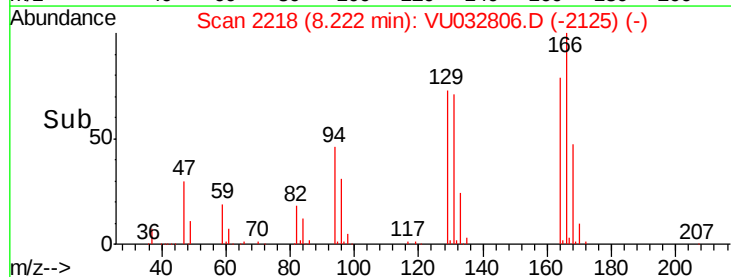
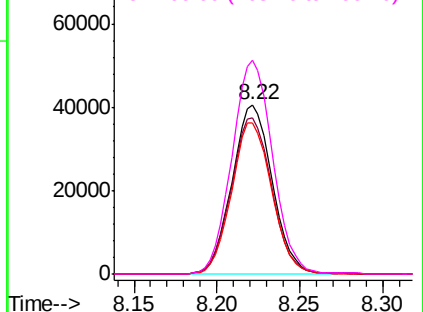


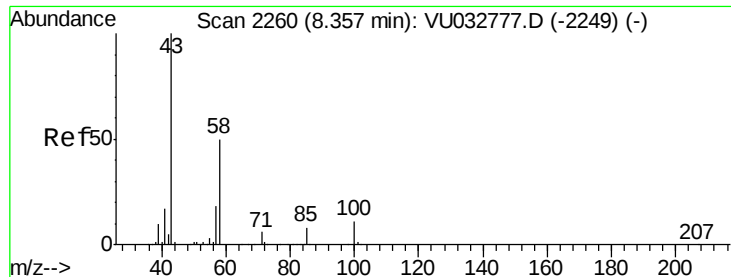
#46
 Tetrachloroethene
 Concen: 49.048 ug/L
 RT: 8.22 min Scan# 2218
 Delta R.T. -0.00 min
 Lab File: VU032806.D
 Acq: 18 Jun 2019 00:41

Tgt Ion:	164	Resp:	68320
Ion	Ratio	Lower	Upper
164	100		
129	92.1	64.8	120.3
131	89.4	64.5	119.7
166	126.0	91.3	169.6



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

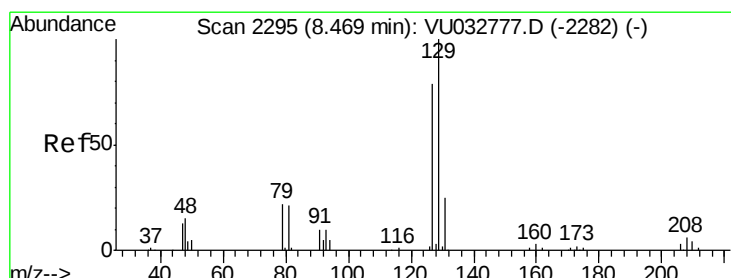
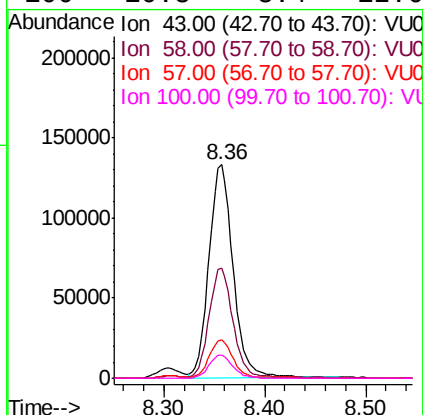
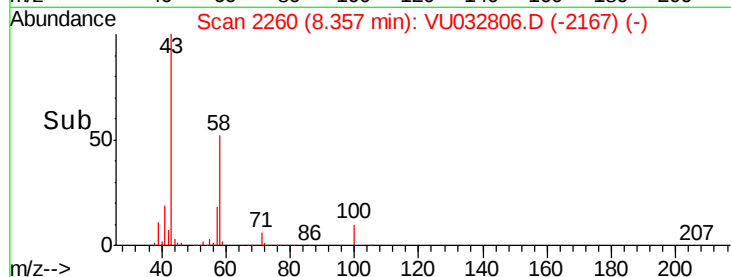
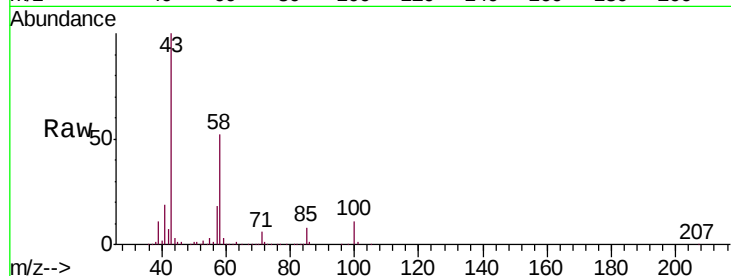




#48
2-Hexanone
Concen: 89.507 ug/L
RT: 8.36 min Scan# 2260
Delta R.T. -0.00 min
Lab File: VU032806.D
Acq: 18 Jun 2019 00:41

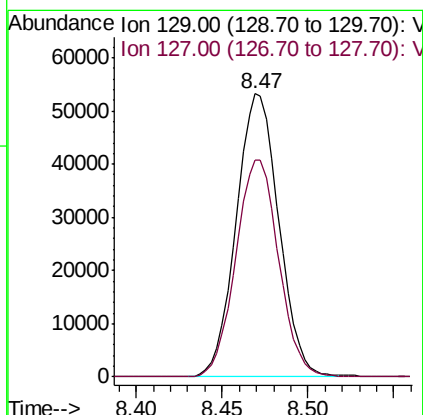
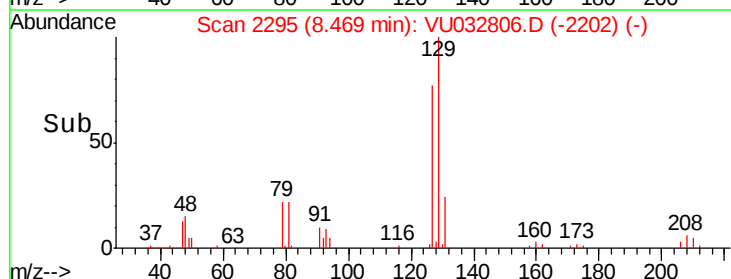
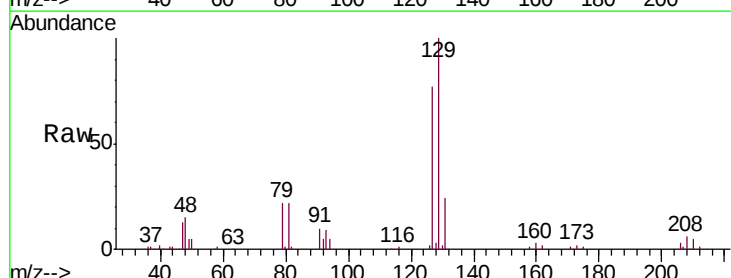
Instrument :
MSVOA_U
ClientSampleId :
VSTD05052

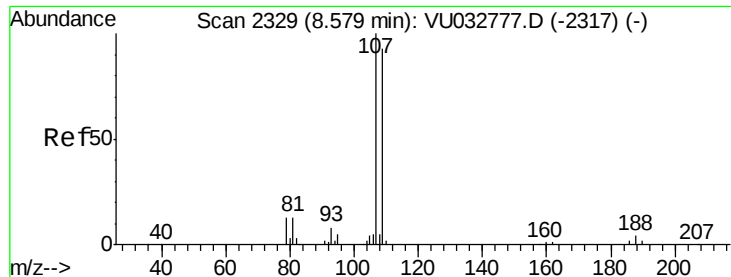
Tgt Ion: 43 Resp: 220038
Ion Ratio Lower Upper
43 100
58 51.0 40.2 60.2
57 17.6 14.2 21.4
100 10.8 8.4 12.6



#49
Dibromochloromethane
Concen: 46.899 ug/L
RT: 8.47 min Scan# 2295
Delta R.T. -0.00 min
Lab File: VU032806.D
Acq: 18 Jun 2019 00:41

Tgt Ion: 129 Resp: 91838
Ion Ratio Lower Upper
129 100
127 76.6 52.3 97.1





#50

1,2-Dibromoethane

Concen: 49.555 ug/L

RT: 8.58 min Scan# 2329

Delta R.T. -0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

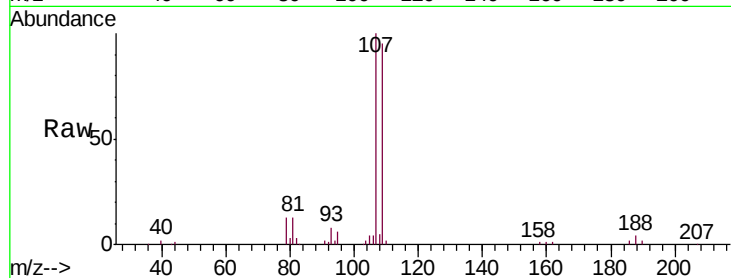
Tgt Ion:107 Resp: 89394

Ion Ratio Lower Upper

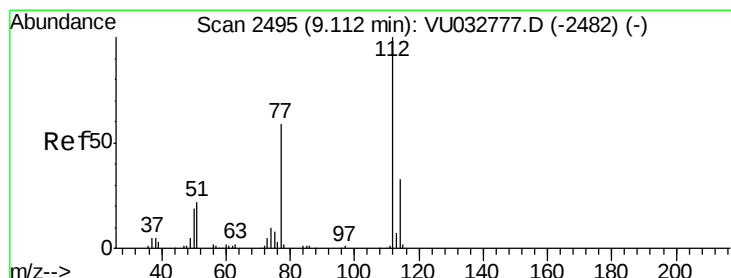
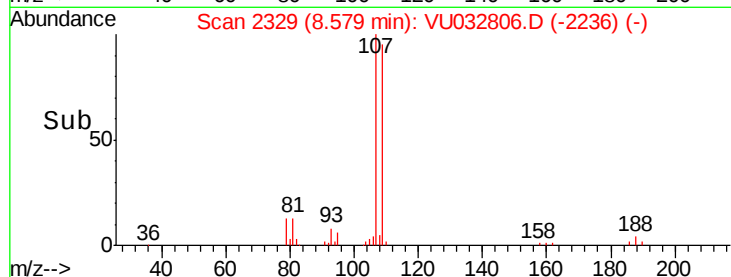
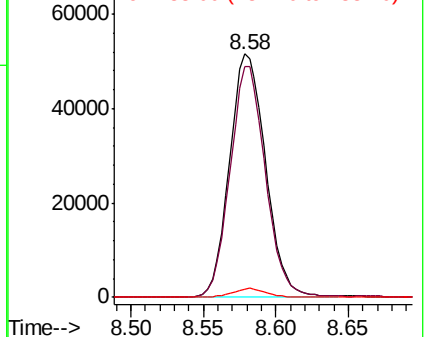
107 100

109 94.8 65.4 121.4

188 3.5 3.1 4.7



Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 48.706 ug/L

RT: 9.11 min Scan# 2495

Delta R.T. -0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

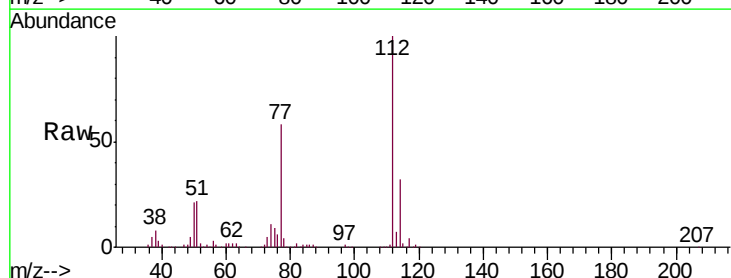
Tgt Ion:112 Resp: 220624

Ion Ratio Lower Upper

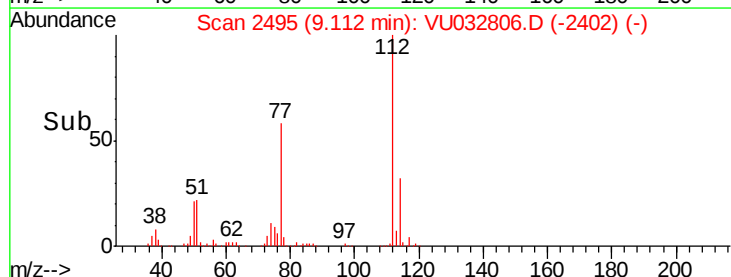
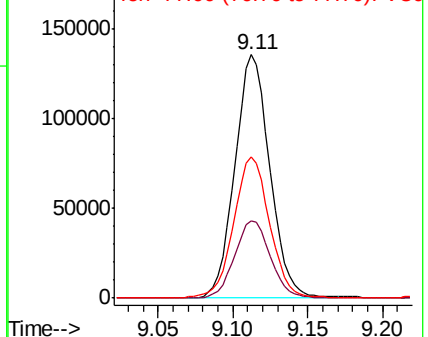
112 100

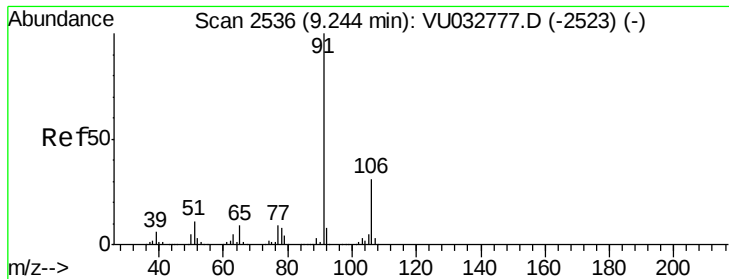
114 31.9 22.8 42.4

77 58.0 46.3 69.5



Abundance Ion 112.00 (111.70 to 112.70): V
Ion 114.00 (113.70 to 114.70): V
Ion 77.00 (76.70 to 77.70): V





#52

Ethylbenzene

Concen: 49.782 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. -0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

Instrument :

MSVOA_U

ClientSampleId :

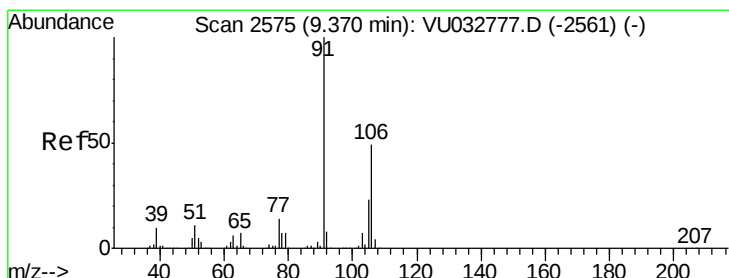
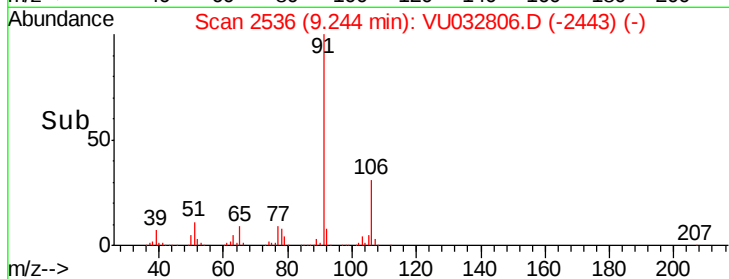
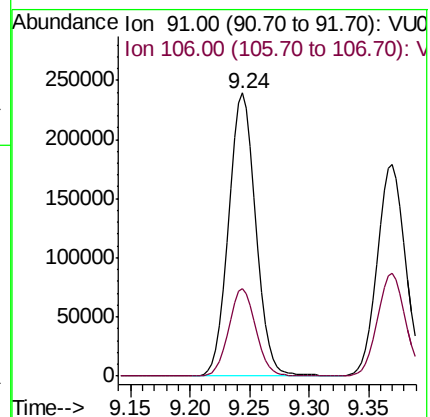
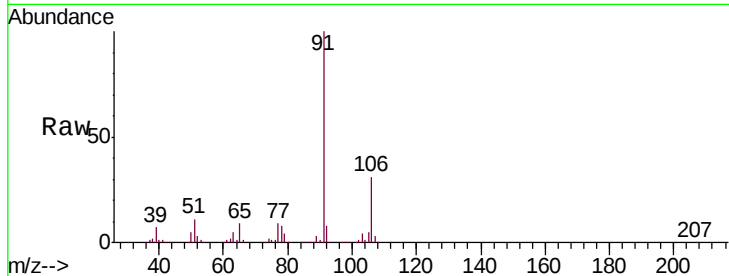
VSTD05052

Tgt Ion: 91 Resp: 379308

Ion Ratio Lower Upper

91 100

106 31.1 21.8 40.4



#53

m,p-Xylene

Concen: 49.116 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. -0.00 min

Lab File: VU032806.D

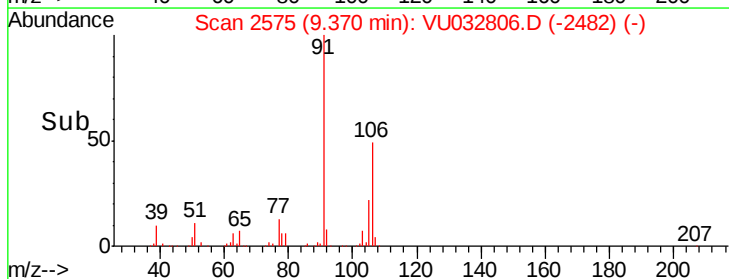
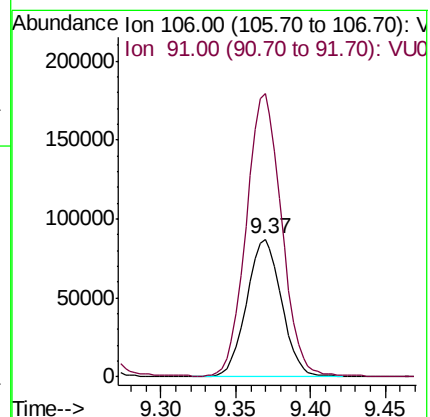
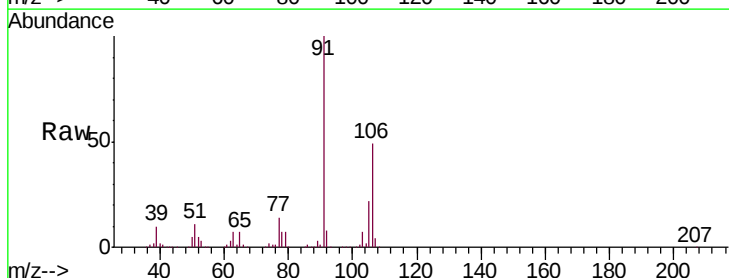
Acq: 18 Jun 2019 00:41

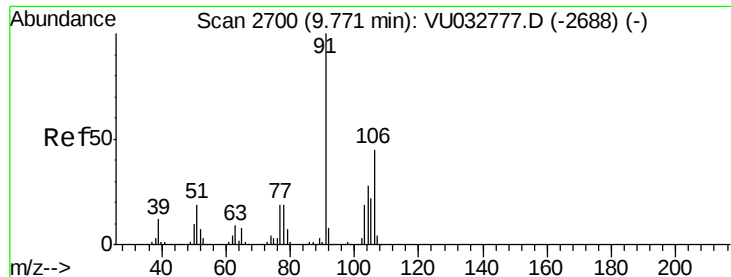
Tgt Ion: 106 Resp: 141197

Ion Ratio Lower Upper

106 100

91 205.9 142.9 265.5





#54

o-xylene

Concen: 50.061 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

Instrument :

MSVOA_U

ClientSampleId :

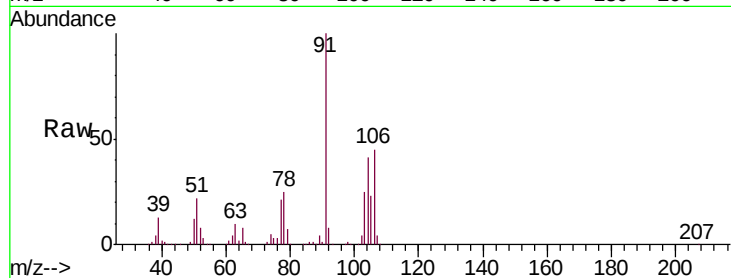
VSTD05052

Tgt Ion:106 Resp: 140540

Ion Ratio Lower Upper

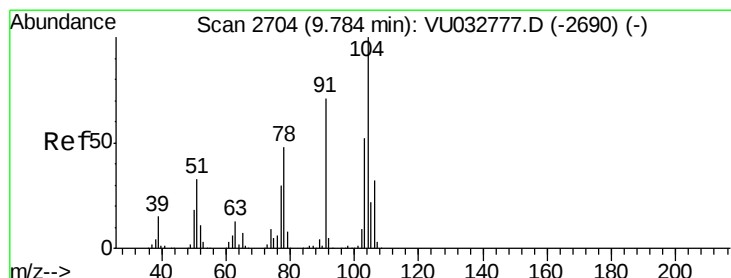
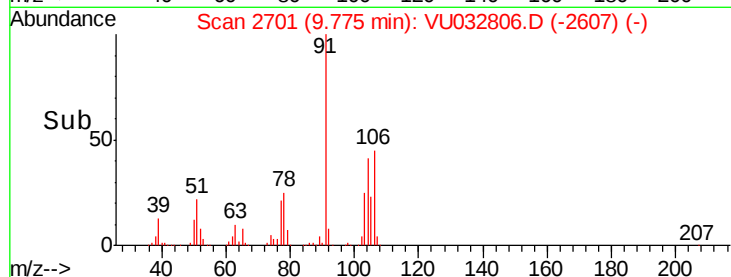
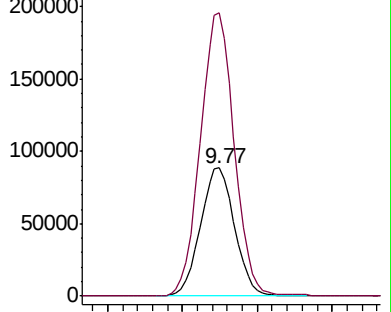
106 100

91 221.2 152.9 284.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 50.255 ug/L

RT: 9.79 min Scan# 2705

Delta R.T. 0.00 min

Lab File: VU032806.D

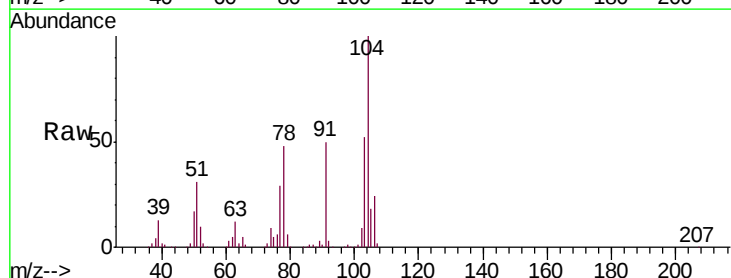
Acq: 18 Jun 2019 00:41

Tgt Ion:104 Resp: 244759

Ion Ratio Lower Upper

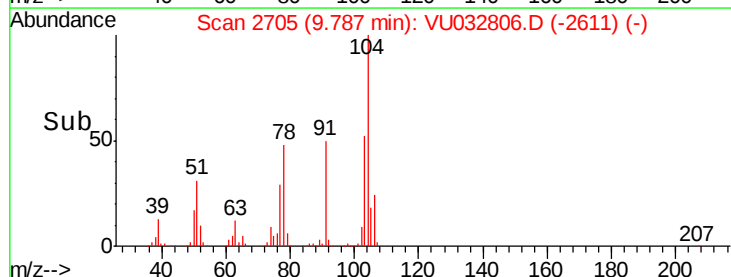
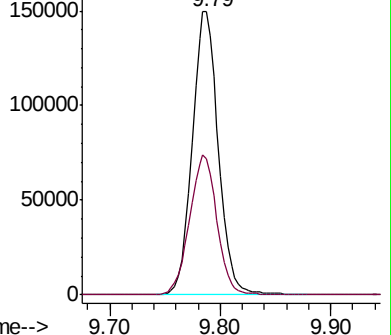
104 100

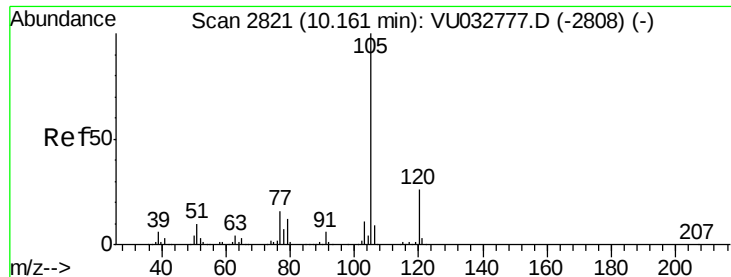
78 48.0 32.1 59.5



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 49.759 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. -0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

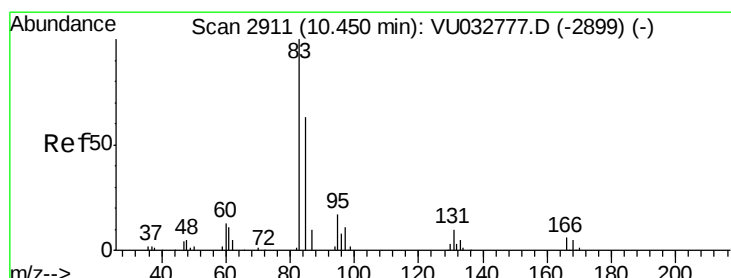
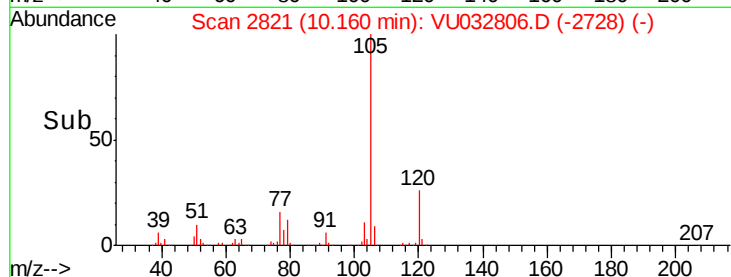
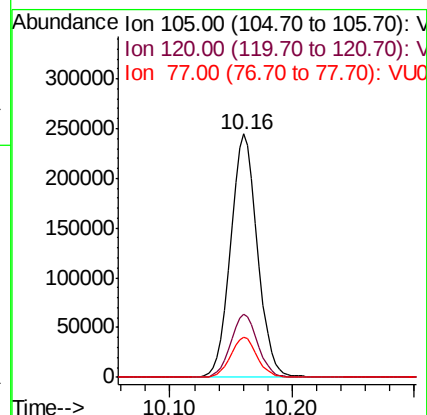
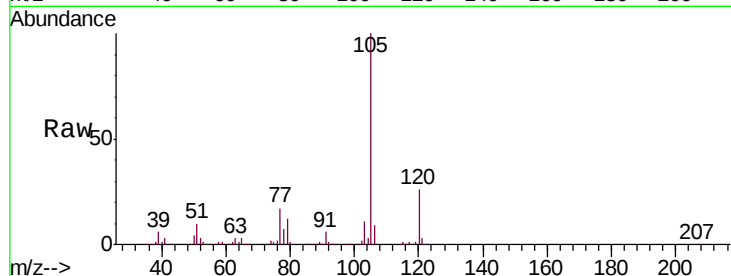
Tgt Ion: 105 Resp: 376465

Ion Ratio Lower Upper

105 100

120 26.2 21.4 32.0

77 16.3 13.0 19.4



#58

1,1,2,2-Tetrachloroethane

Concen: 48.925 ug/L

RT: 10.45 min Scan# 2911

Delta R.T. -0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

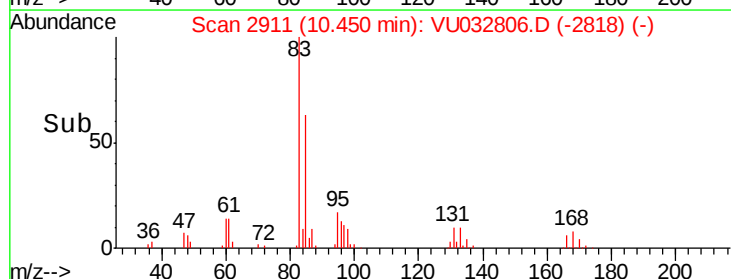
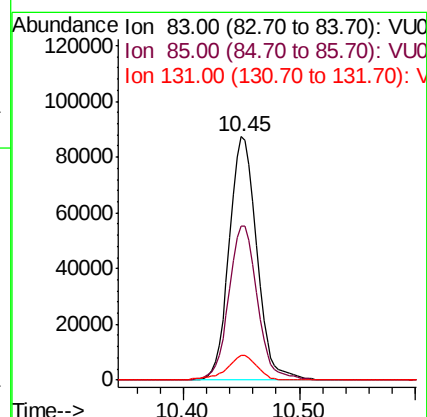
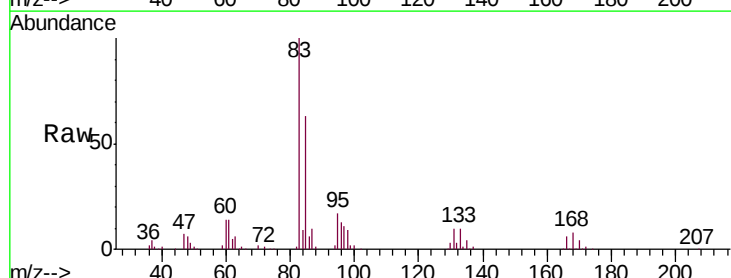
Tgt Ion: 83 Resp: 143805

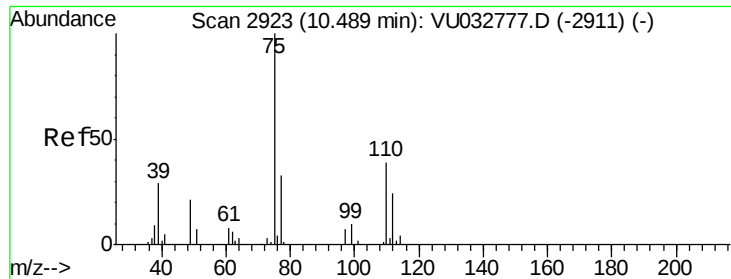
Ion Ratio Lower Upper

83 100

85 63.4 45.8 85.2

131 10.1 7.8 11.8





#59

1,2,3-Trichloropropane

Concen: 49.294 ug/L

RT: 10.49 min Scan# 2923

Delta R.T. -0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

Instrument :

MSVOA_U

ClientSampleId :

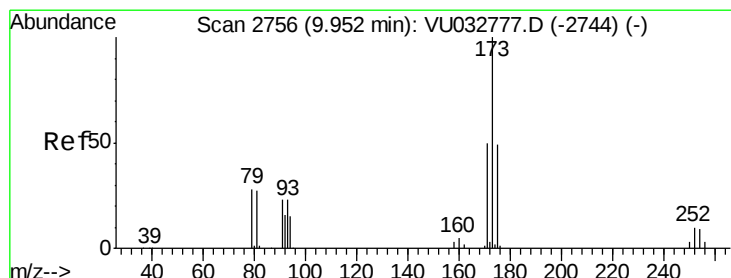
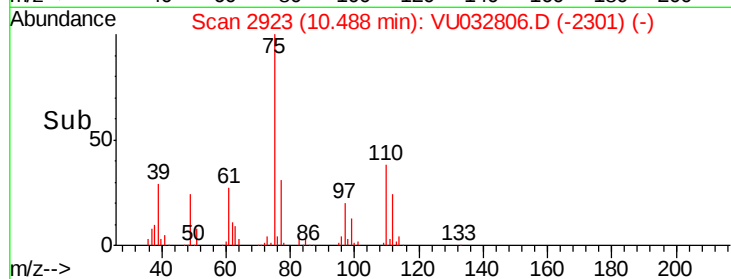
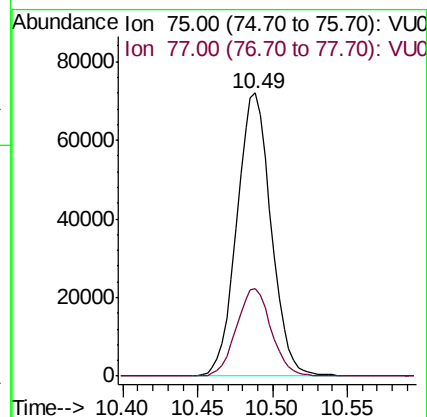
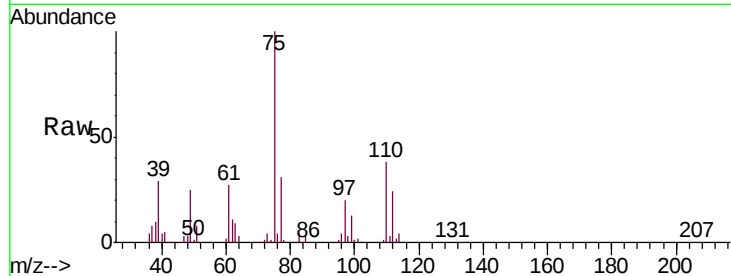
VSTD05052

Tgt Ion: 75 Resp: 114805

Ion Ratio Lower Upper

75 100

77 31.5 25.5 38.3



#61

Bromoform

Concen: 45.305 ug/L

RT: 9.95 min Scan# 2756

Delta R.T. -0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

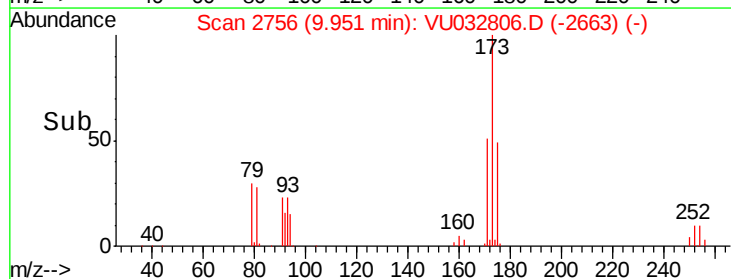
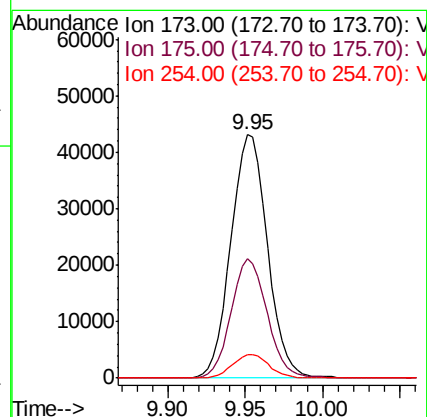
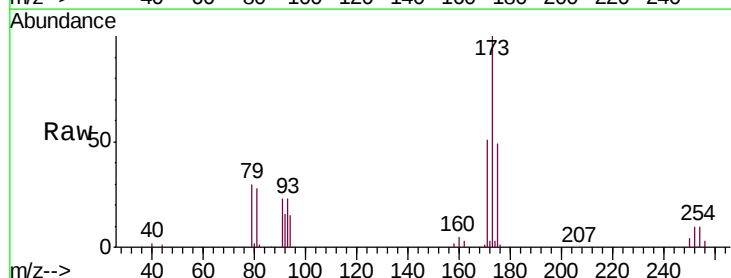
Tgt Ion: 173 Resp: 70795

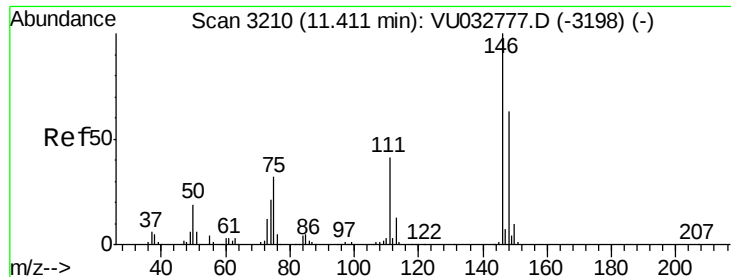
Ion Ratio Lower Upper

173 100

175 48.1 39.0 58.4

254 9.7 7.5 11.3





#62

1,3-Dichlorobenzene

Concen: 48.734 ug/L

RT: 11.41 min Scan# 3210

Delta R.T. -0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

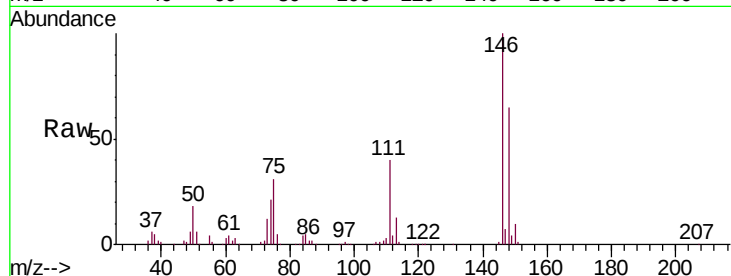
Tgt Ion:146 Resp: 181281

Ion Ratio Lower Upper

146 100

111 40.2 28.4 52.8

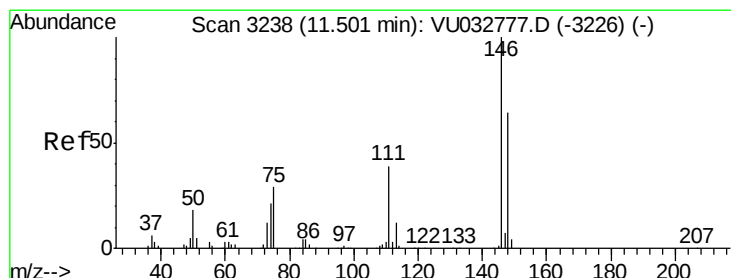
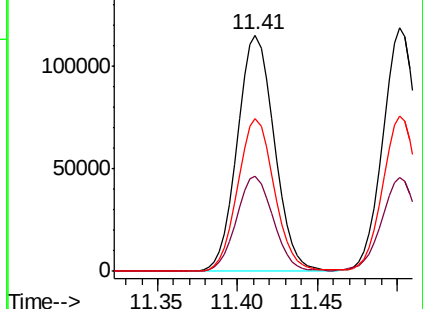
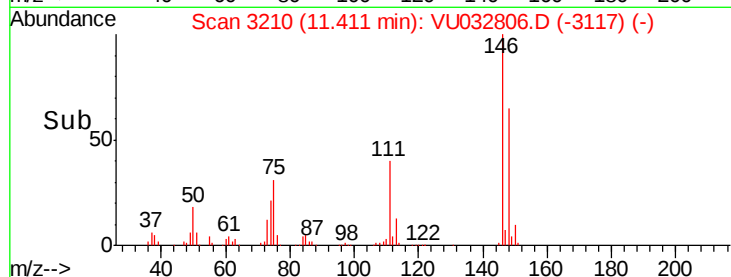
148 64.9 45.5 84.5



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: 48.278 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. -0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

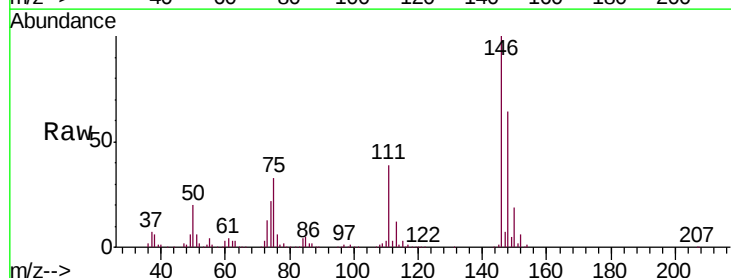
Tgt Ion:146 Resp: 185489

Ion Ratio Lower Upper

146 100

111 38.6 26.9 50.1

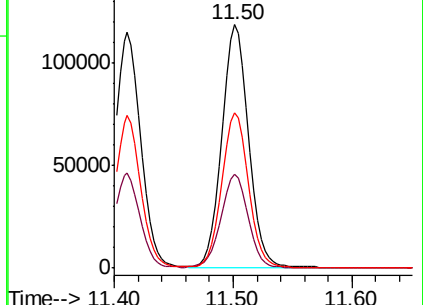
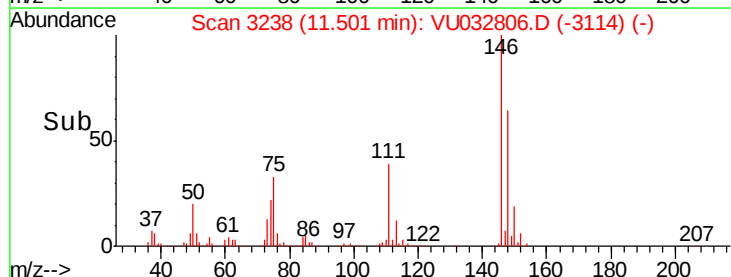
148 63.9 44.7 83.1

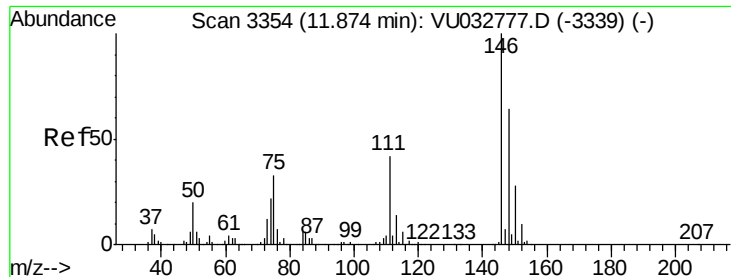


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

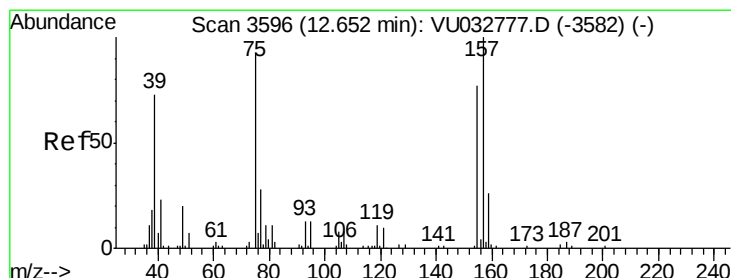
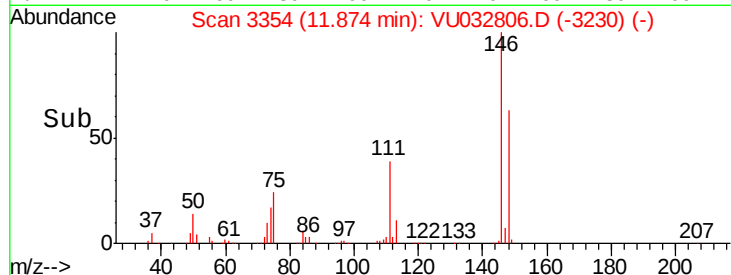
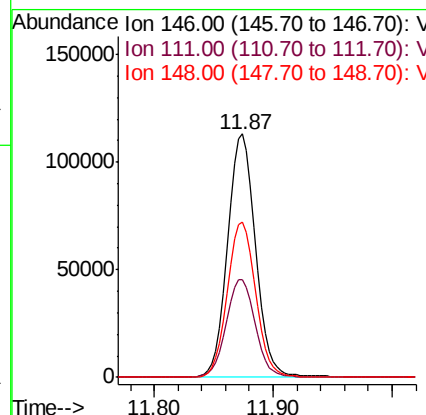
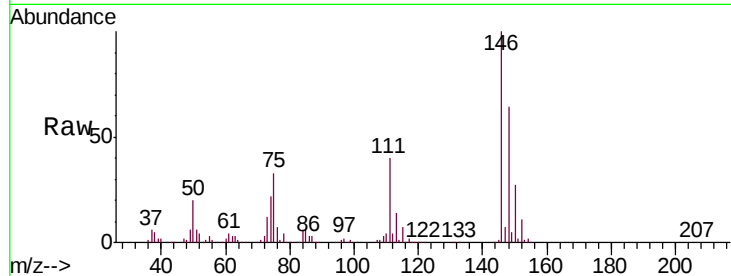




#65
 1,2-Dichlorobenzene
 Concen: 48.640 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU032806.D
 Acq: 18 Jun 2019 00:41

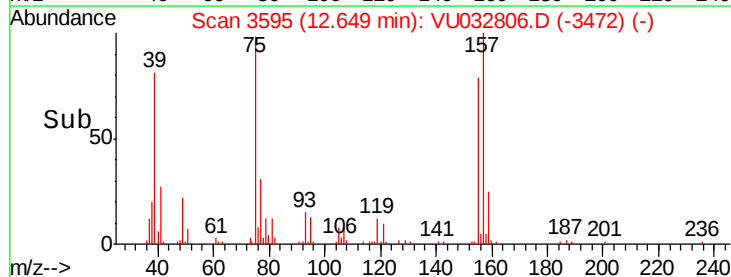
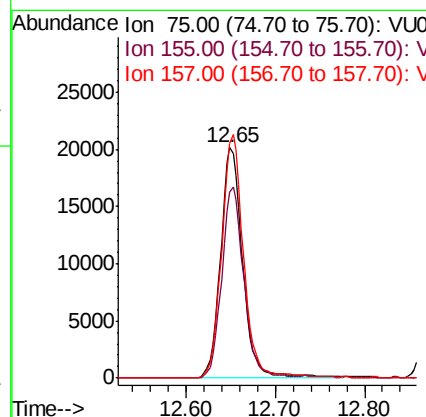
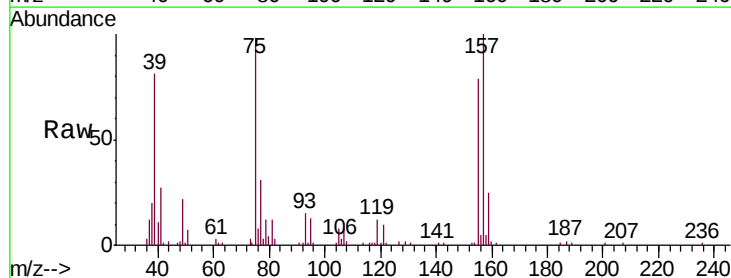
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

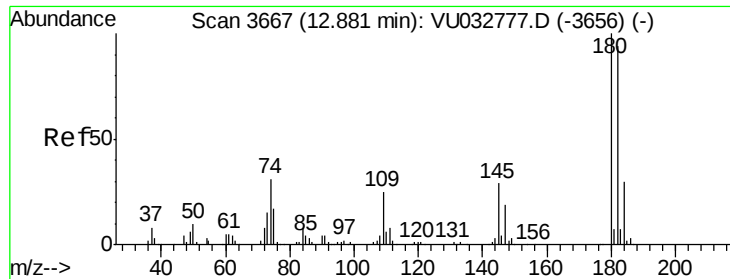
Tgt Ion: 146 Resp: 184740
 Ion Ratio Lower Upper
 146 100
 111 40.4 34.1 51.1
 148 63.7 52.0 78.0



#66
 1,2-Dibromo-3-chloropropane
 Concen: 47.972 ug/L
 RT: 12.65 min Scan# 3595
 Delta R.T. -0.00 min
 Lab File: VU032806.D
 Acq: 18 Jun 2019 00:41

Tgt Ion: 75 Resp: 34761
 Ion Ratio Lower Upper
 75 100
 155 80.9 67.4 101.2
 157 101.9 85.5 128.3

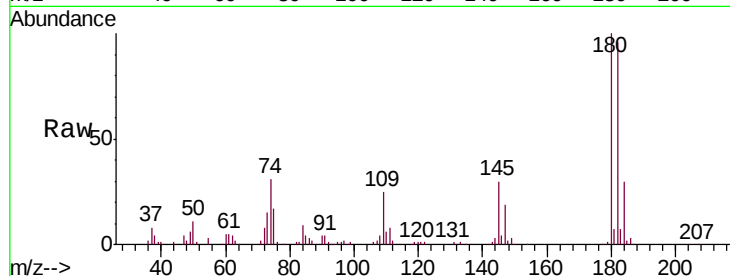




#67
 1,3,5-Trichlorobenzene
 Concen: 48.342 ug/L
 RT: 12.88 min Scan# 3667
 Delta R.T. -0.00 min
 Lab File: VU032806.D
 Acq: 18 Jun 2019 00:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05052

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	78.3	117.5
184	30.4	24.8	37.2
145	29.7	23.4	35.2



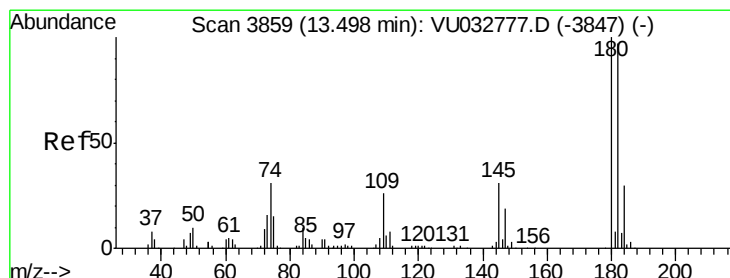
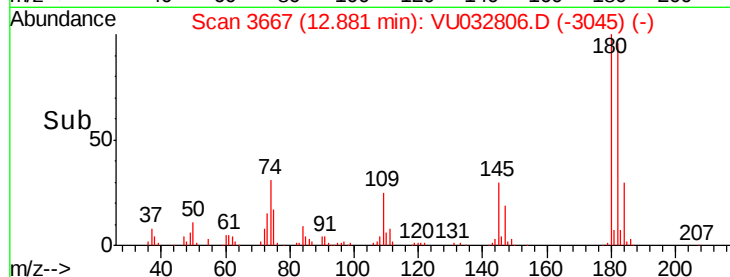
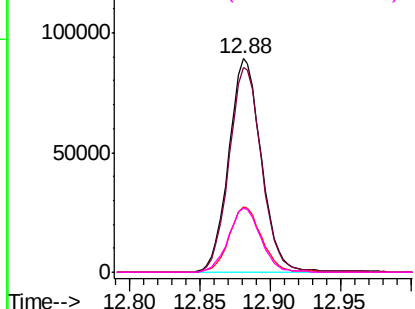
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

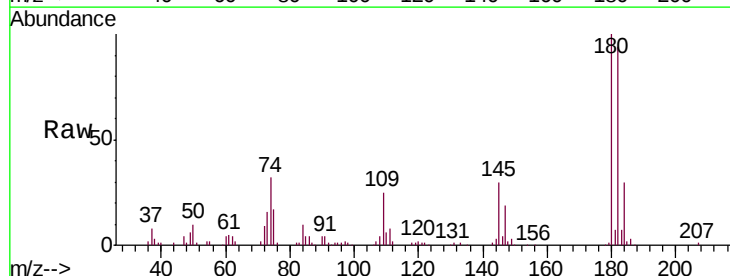
Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68
 1,2,4-trichlorobenzene
 Concen: 51.448 ug/L
 RT: 13.50 min Scan# 3859
 Delta R.T. -0.00 min
 Lab File: VU032806.D
 Acq: 18 Jun 2019 00:41

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.7	76.2	114.4
145	30.1	23.8	35.8

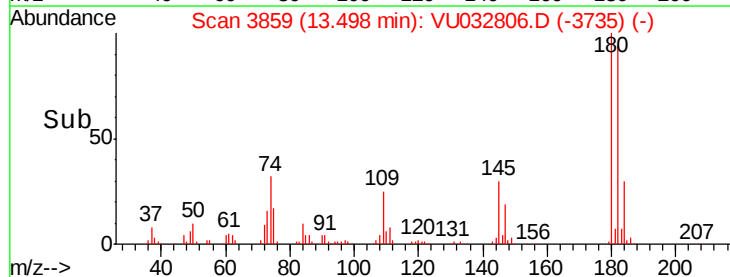
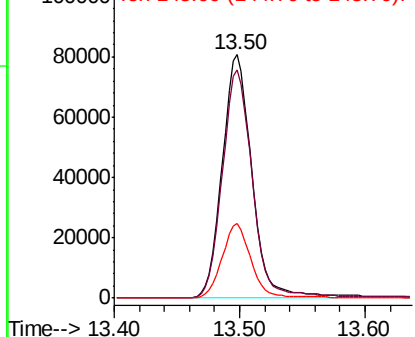


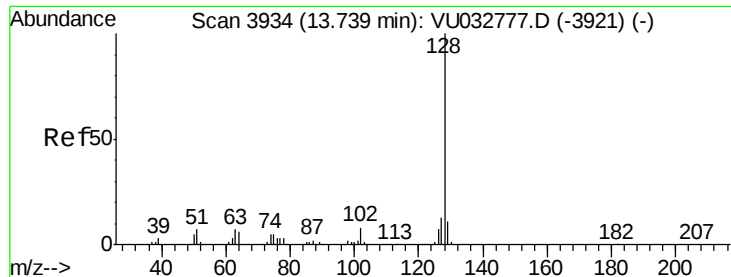
Abundance

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: 54.332 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. -0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD05052

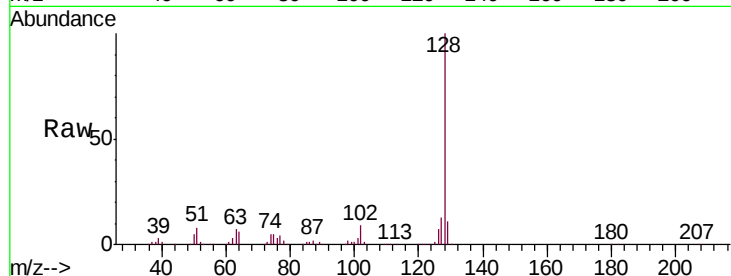
Tgt Ion:128 Resp: 429627

Ion Ratio Lower Upper

128 100

127 12.9 10.3 15.5

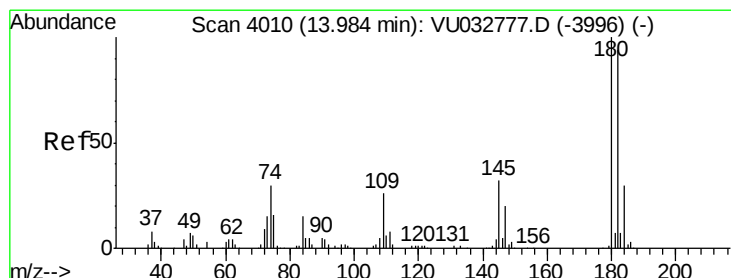
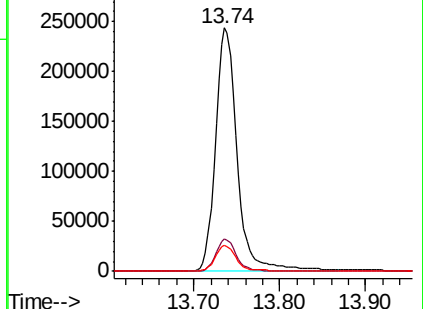
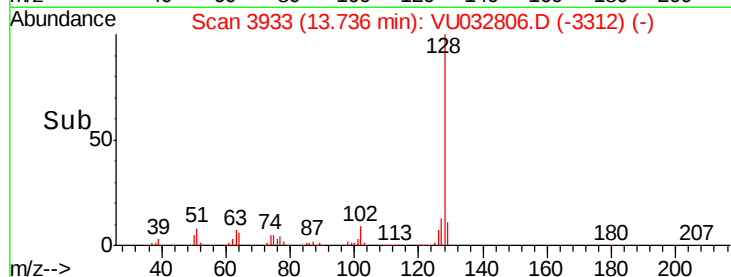
129 10.5 8.6 13.0



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 50.270 ug/L

RT: 13.98 min Scan# 4009

Delta R.T. -0.00 min

Lab File: VU032806.D

Acq: 18 Jun 2019 00:41

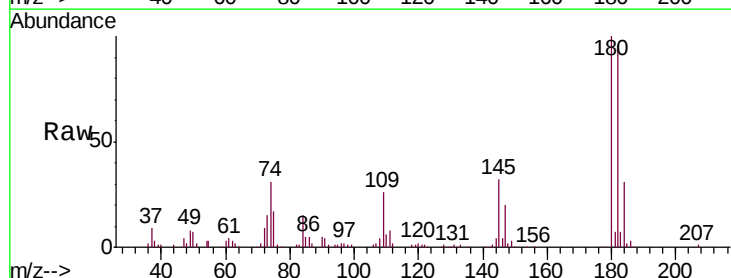
Tgt Ion:180 Resp: 136865

Ion Ratio Lower Upper

180 100

182 96.1 77.0 115.6

145 31.4 25.5 38.3



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

