

Data File : VU032771.D
Acq On : 17 Jun 2019 10:38
Operator : JC/SP
Sample : VSTD00531
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 2 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00531

Quant Time: Jun 18 01:38:05 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM061719WMA.M
Quant Title : VOC Analysis
QLast Update : Tue Jun 18 01:34:42 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	227028	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.08	117	215914	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	109416	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	7770	5.21	ug/L	0.00
7) Chloroethane-d5	1.68	69	6055	5.07	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.27	63	15208	5.19	ug/L	0.00
21) 2-Butanone-d5	4.17	46	11915	9.64	ug/L	0.00
24) Chloroform-d	4.64	84	14014	5.00	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.30	65	9647	5.39	ug/L	0.00
32) Benzene-d6	5.34	84	26811	4.76	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.32	67	8587	4.83	ug/L	0.00
41) Toluene-d8	7.56	98	24554	4.61	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.85	79	4219	4.93	ug/L	0.00
47) 2-Hexanone-d5	8.31	63	7317	8.72	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.43	84	13274	5.16	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.86	152	10859	5.17	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	11621	5.526 ug/L	99
3) Chloromethane	1.32	50	10413	5.216 ug/L	92
5) Vinyl chloride	1.40	62	10172	5.081 ug/L	100
6) Bromomethane	1.62	94	5735	4.841 ug/L	97
8) Chloroethane	1.69	64	5929	5.014 ug/L	97
9) Trichlorofluoromethane	1.88	101	14300	5.238 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	7614	5.374 ug/L	99
12) 1,1-Dichloroethene	2.28	96	7051	5.162 ug/L	84
13) Acetone	2.32	43	19496	14.279 ug/L	99
14) Carbon disulfide	2.47	76	23193	5.555 ug/L	100
15) Methyl Acetate	2.61	43	9860	5.371 ug/L	99
16) Methylene chloride	2.69	84	8190	5.228 ug/L	99
17) trans-1,2-Dichloroethene	2.98	96	7985	5.407 ug/L	95
18) Methyl tert-butyl Ether	2.99	73	23713	4.892 ug/L	99
19) 1,1-Dichloroethane	3.44	63	14248	5.219 ug/L	95
20) cis-1,2-Dichloroethene	4.22	96	7978	4.796 ug/L	96
22) 2-Butanone	4.26	43	7812	5.003 ug/L	# 47
23) Bromochloromethane	4.54	128	3961	4.574 ug/L	94
25) Chloroform	4.67	83	14928	5.306 ug/L	98
27) 1,2-Dichloroethane	5.40	62	12119	5.381 ug/L	95
29) Cyclohexane	4.98	56	12410	4.837 ug/L	99
30) 1,1,1-Trichloroethane	4.91	97	13174	5.325 ug/L	99
31) Carbon tetrachloride	5.13	117	11581	5.096 ug/L	94
33) Benzene	5.38	78	31216	5.114 ug/L	100
34) Trichloroethene	6.18	95	8645	5.217 ug/L	97
35) Methylcyclohexane	6.41	83	12386	4.644 ug/L	97
37) 1,2-Dichloropropane	6.43	63	8490	5.190 ug/L	# 97
38) Bromodichloromethane	6.75	83	10830	5.120 ug/L	96
39) cis-1,3-Dichloropropene	7.26	75	12335	4.809 ug/L	98
40) 4-Methyl-2-pentanone	7.46	43	25947	10.005 ug/L	98

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.63	91	32567	4.877	ug/L	95
44) trans-1,3-Dichloropropene	7.88	75	11783	5.125	ug/L	93
45) 1,1,2-Trichloroethane	8.06	97	7679	5.012	ug/L	97
46) Tetrachloroethene	8.22	164	6741	4.937	ug/L	93
48) 2-Hexanone	8.36	43	23031	10.631	ug/L	100
49) Dibromochloromethane	8.47	129	8913	4.968	ug/L	100
50) 1,2-Dibromoethane	8.58	107	8416	4.882	ug/L #	99
51) Chlorobenzene	9.11	112	22638	5.259	ug/L	98
52) Ethylbenzene	9.24	91	35457	4.775	ug/L	100
53) m,p-Xylene	9.37	106	13494	4.787	ug/L	100
54) o-xylene	9.77	106	12678	4.539	ug/L	96
55) Styrene	9.79	104	21125	4.506	ug/L	96
56) Isopropylbenzene	10.16	105	33853	4.593	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	13893	5.273	ug/L	93
59) 1,2,3-Trichloropropane	10.49	75	11023	5.210	ug/L	96
61) Bromoform	9.95	173	7186	5.409	ug/L	94
62) 1,3-Dichlorobenzene	11.41	146	18069	5.445	ug/L	97
63) 1,4-Dichlorobenzene	11.50	146	19043	5.573	ug/L	96
65) 1,2-Dichlorobenzene	11.88	146	18006	5.358	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.65	75	3012	5.244	ug/L	95
67) 1,3,5-Trichlorobenzene	12.88	180	14249	5.489	ug/L	97
68) 1,2,4-trichlorobenzene	13.50	180	9983	4.544	ug/L	93
69) Naphthalene	13.75	128	30134	4.372	ug/L #	95
70) 1,2,3-Trichlorobenzene	13.99	180	13206	5.737	ug/L	96

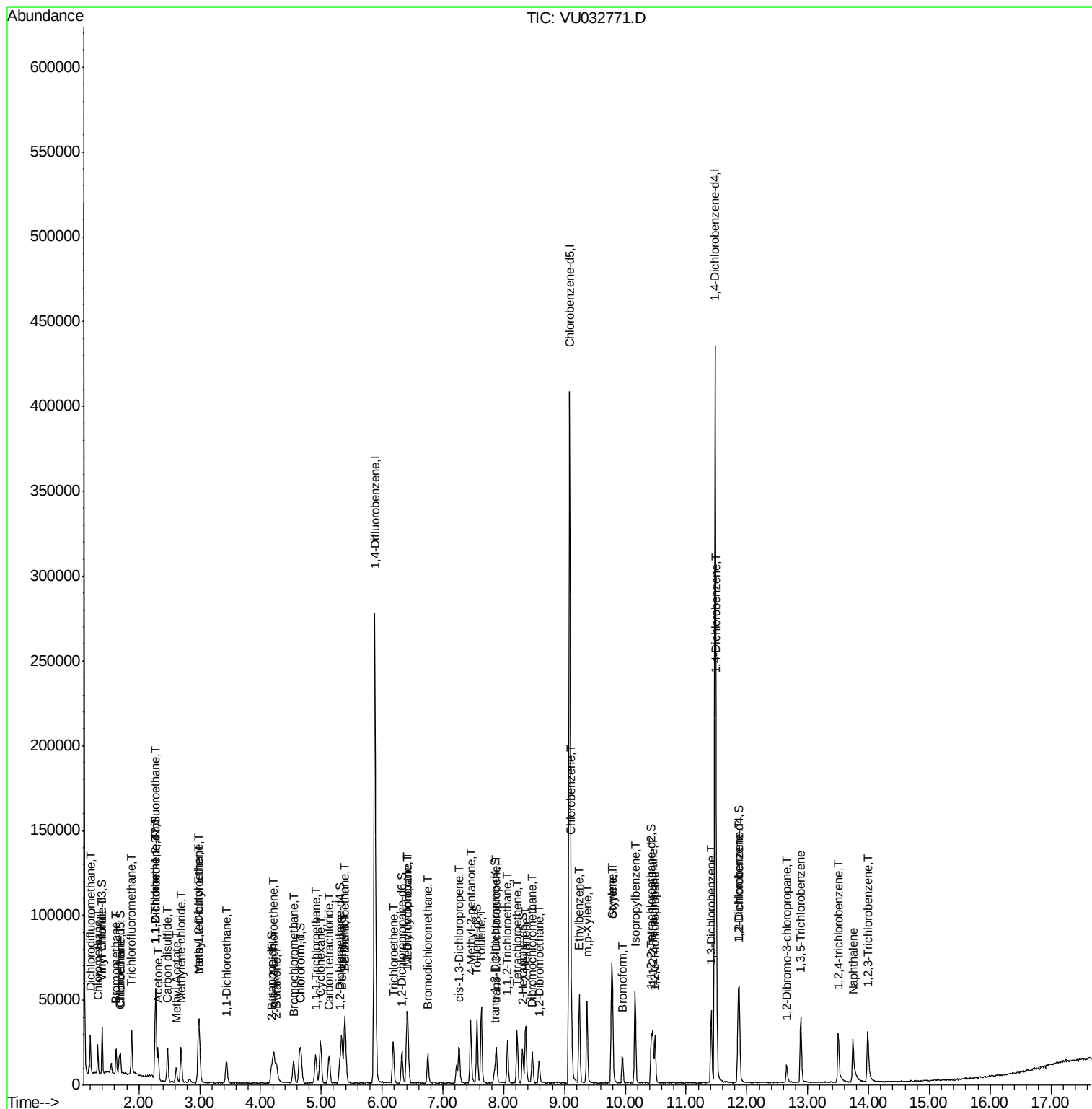
(#) = qualifier out of range (m) = manual integration (+) = signals summed

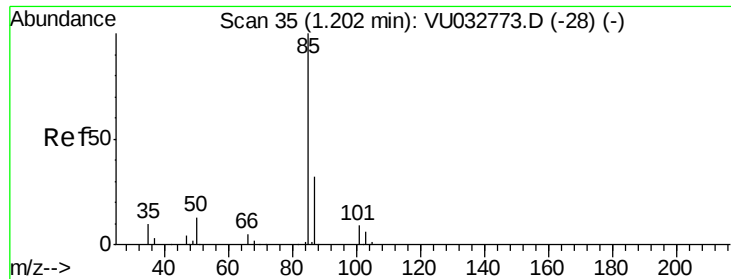
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#2

Dichlorodifluoromethane

Concen: 5.526 ug/L

RT: 1.20 min Scan# 35

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

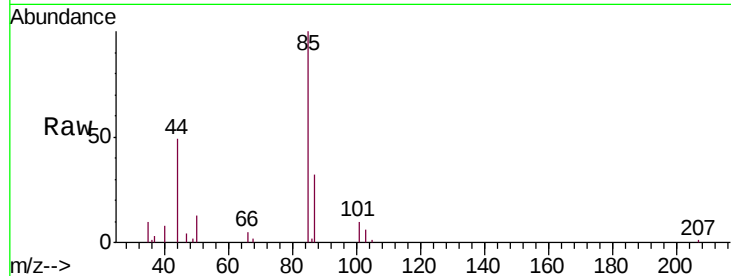
VSTD00531

Tgt Ion: 85 Resp: 11621

Ion Ratio Lower Upper

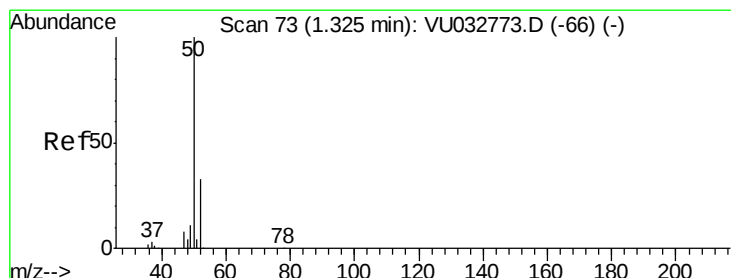
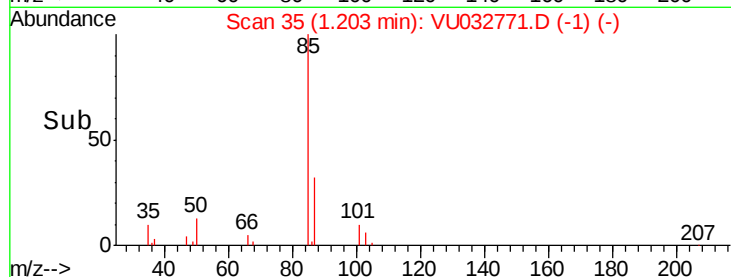
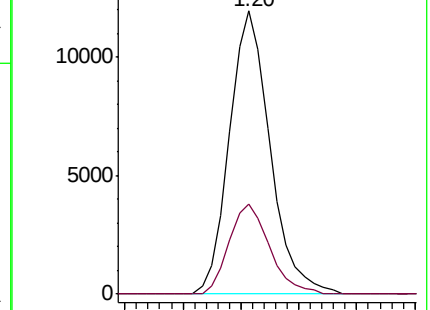
85 100

87 31.7 25.8 38.8



Abundance Ion 85.00 (84.70 to 85.70): VU032771.D (-28) (-)

Ion 87.00 (86.70 to 87.70): VU032771.D (-28) (-)



#3

Chloromethane

Concen: 5.216 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU032771.D

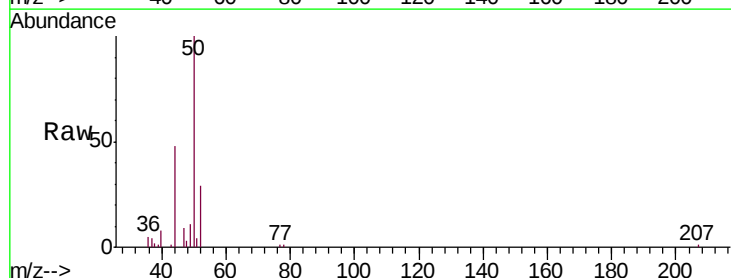
Acq: 17 Jun 2019 10:38

Tgt Ion: 50 Resp: 10413

Ion Ratio Lower Upper

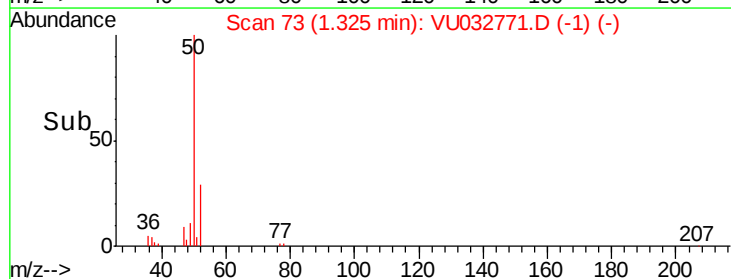
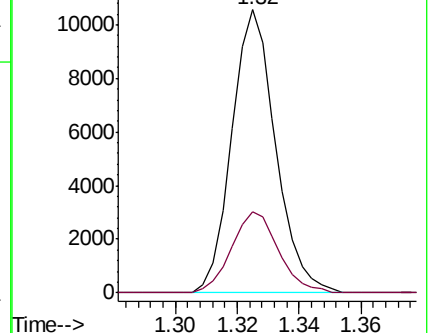
50 100

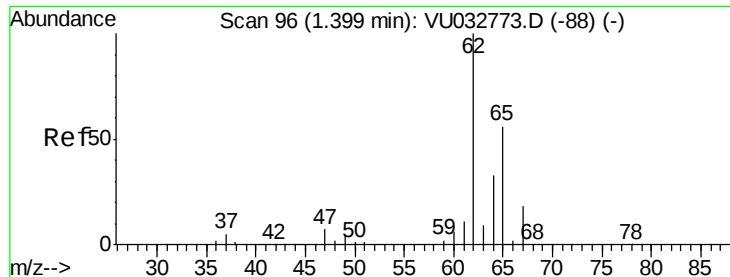
52 28.5 23.0 42.6



Abundance Ion 50.00 (49.70 to 50.70): VU032771.D (-66) (-)

Ion 52.00 (51.70 to 52.70): VU032771.D (-66) (-)





#5

Vinyl chloride

Concen: 5.081 ug/L

RT: 1.40 min Scan# 96

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

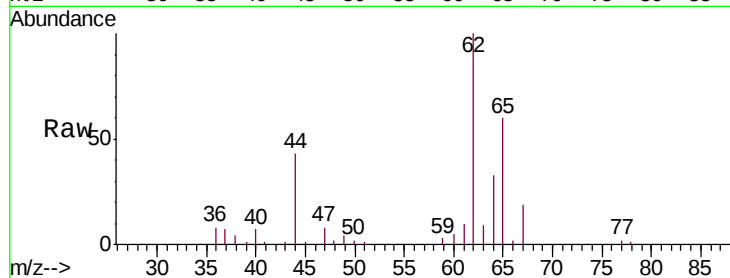
VSTD00531

Tgt Ion: 62 Resp: 10172

Ion Ratio Lower Upper

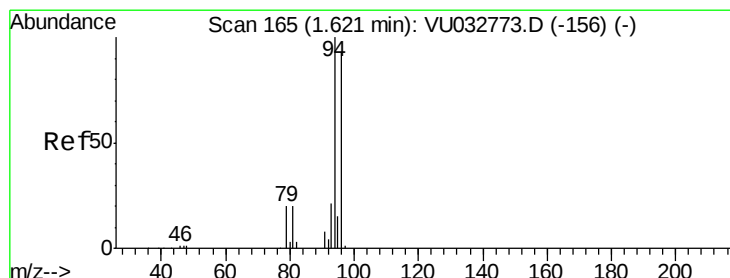
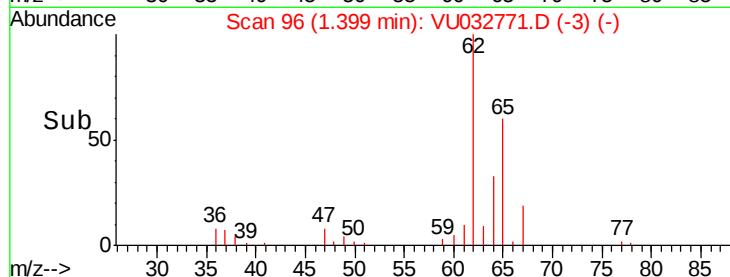
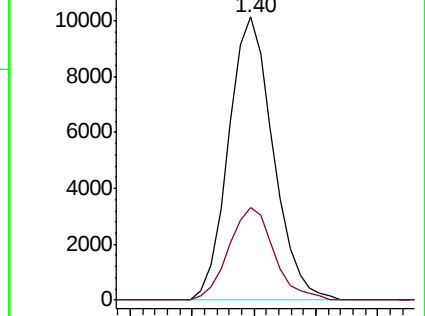
62 100

64 32.8 23.0 42.6



Abundance Ion 62.00 (61.70 to 62.70): VU0

Ion 64.00 (63.70 to 64.70): VU0



#6

Bromomethane

Concen: 4.841 ug/L

RT: 1.62 min Scan# 166

Delta R.T. 0.00 min

Lab File: VU032771.D

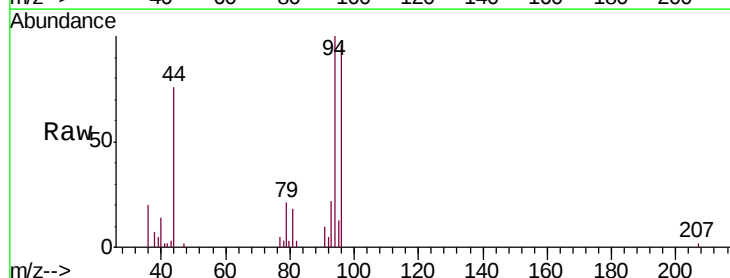
Acq: 17 Jun 2019 10:38

Tgt Ion: 94 Resp: 5735

Ion Ratio Lower Upper

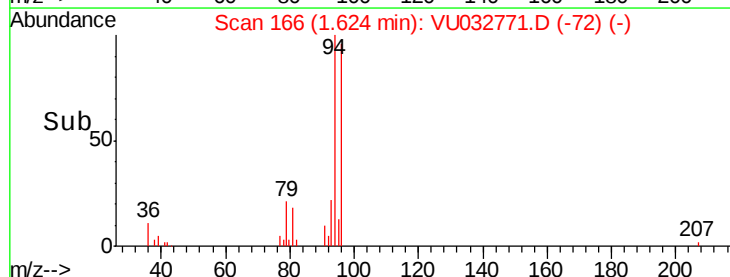
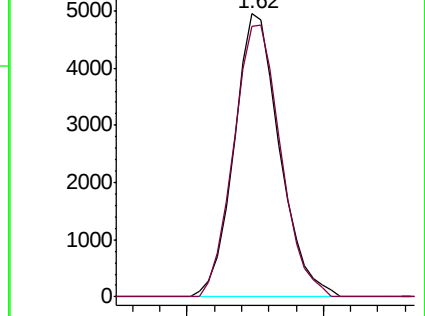
94 100

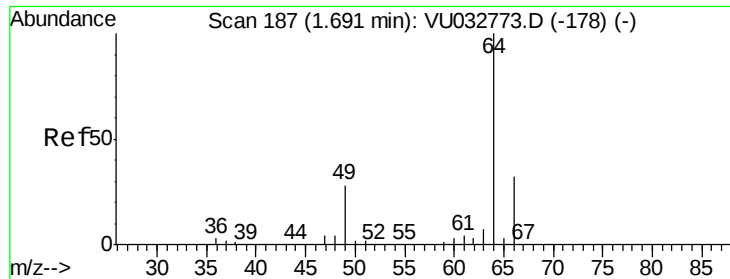
96 95.8 64.8 120.4



Abundance Ion 94.00 (93.70 to 94.70): VU0

Ion 96.00 (95.70 to 96.70): VU0





#8

Chloroethane

Concen: 5.014 ug/L

RT: 1.69 min Scan# 188

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

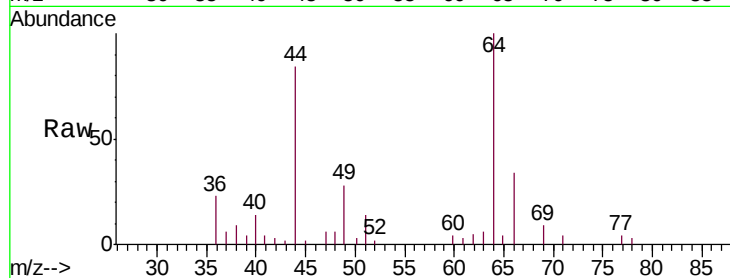
VSTD00531

Tgt Ion: 64 Resp: 5929

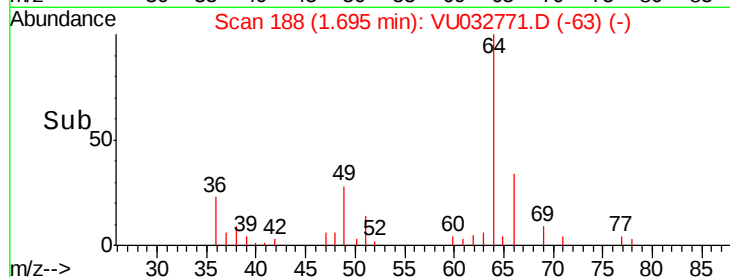
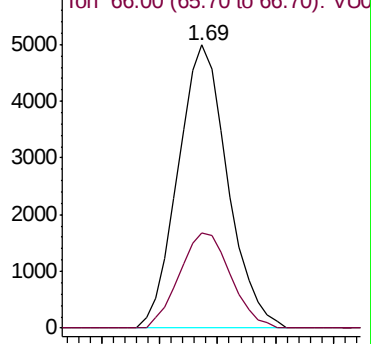
Ion Ratio Lower Upper

64 100

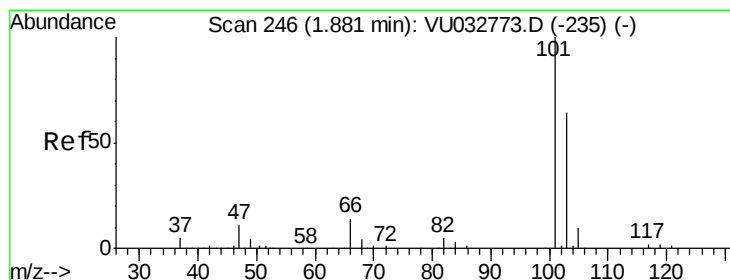
66 33.7 22.5 41.7



Abundance Ion 64.00 (63.70 to 64.70): VU032771.D (-178) (-)



Time-->



#9

Trichlorofluoromethane

Concen: 5.238 ug/L

RT: 1.88 min Scan# 246

Delta R.T. 0.00 min

Lab File: VU032771.D

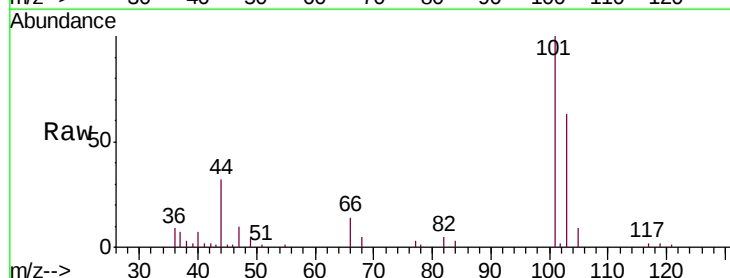
Acq: 17 Jun 2019 10:38

Tgt Ion: 101 Resp: 14300

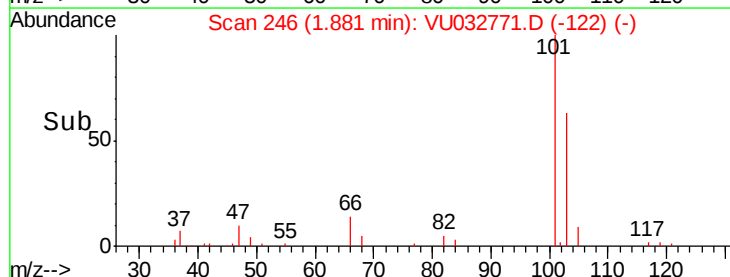
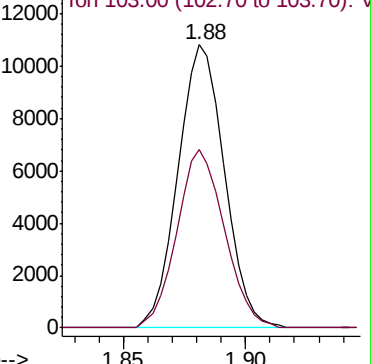
Ion Ratio Lower Upper

101 100

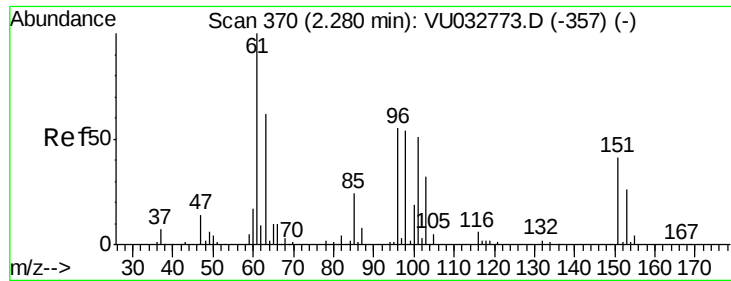
103 64.5 51.3 76.9



Abundance Ion 101.00 (100.70 to 101.70): VU032771.D (-235) (-)



Time-->



#10

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

Concen: 5.374 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00531

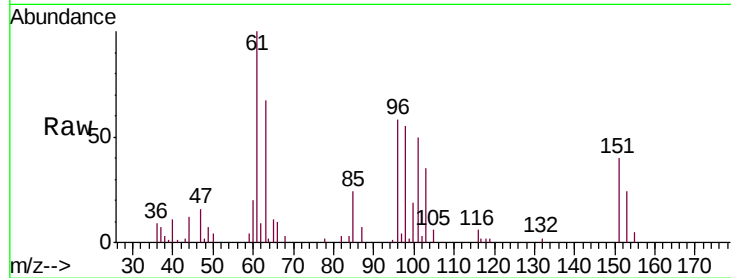
Tgt Ion: 101 Resp: 7614

Ion Ratio Lower Upper

101 100

85 45.2 36.8 55.2

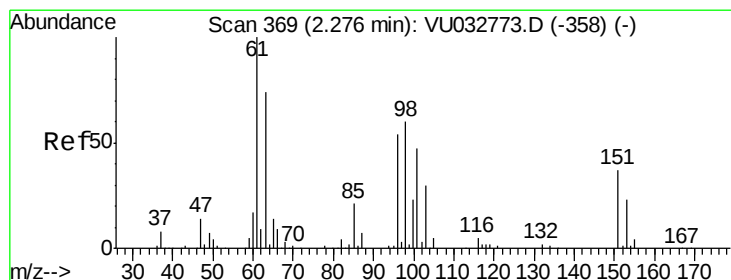
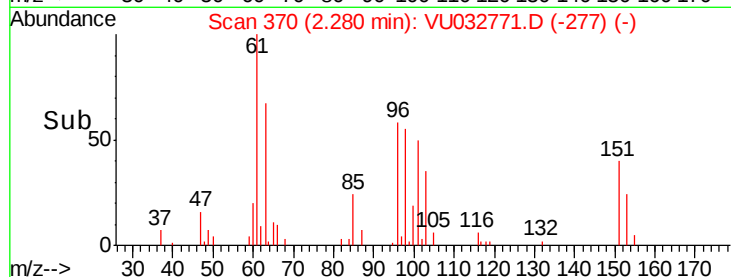
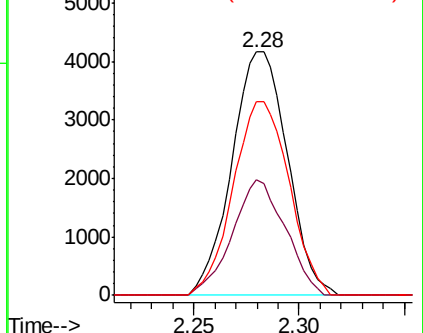
151 80.2 63.6 95.4



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: 5.162 ug/L

RT: 2.28 min Scan# 370

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

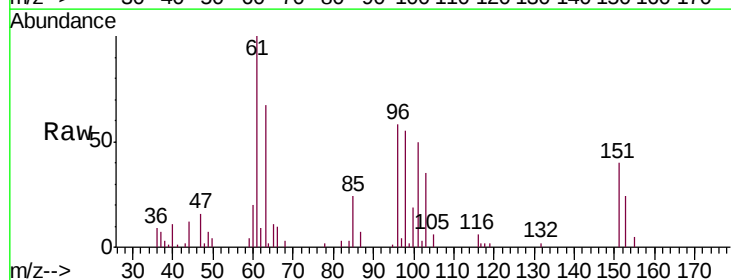
Tgt Ion: 96 Resp: 7051

Ion Ratio Lower Upper

96 100

61 173.4 131.0 243.4

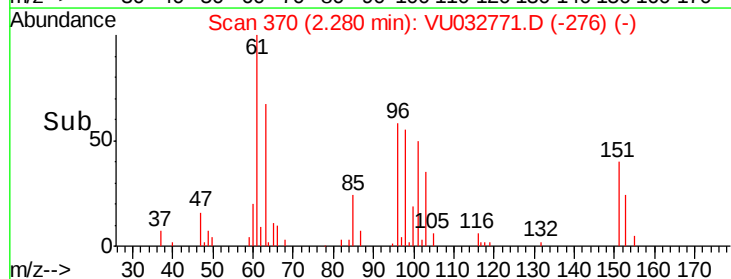
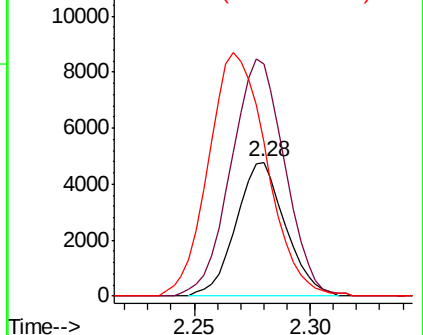
63 115.4 101.0 187.6

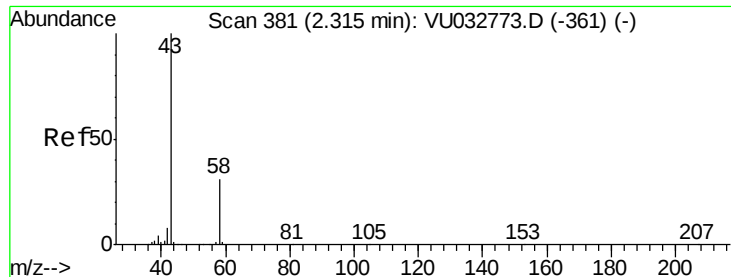


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 14.279 ug/L

RT: 2.32 min Scan# 381

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

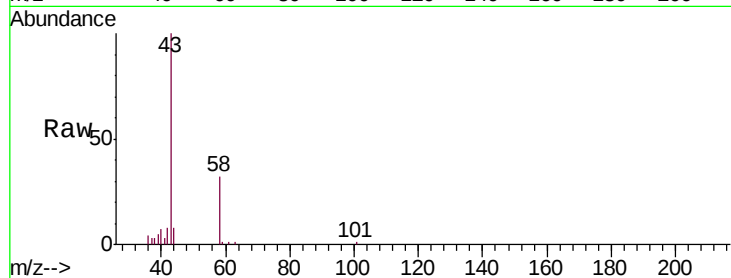
VSTD00531

Tgt Ion: 43 Resp: 19496

Ion Ratio Lower Upper

43 100

58 30.8 0.0 60.6



Abundance Ion 43.00 (42.70 to 43.70): VU032771.D (-361) (-)

Ion 58.00 (57.70 to 58.70): VU032771.D (-361) (-)

2.32

15000

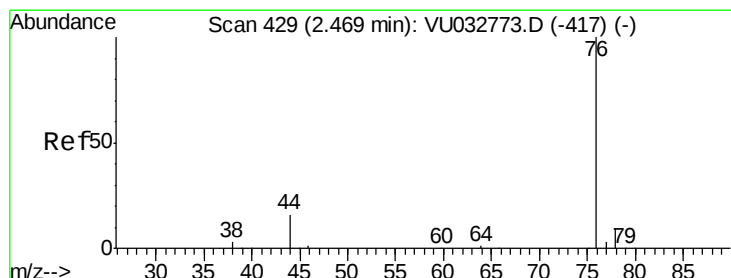
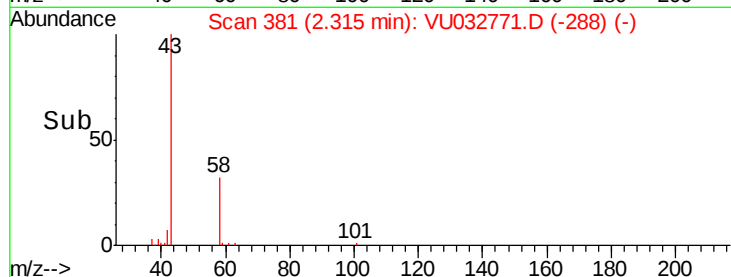
10000

5000

0

Time-->

2.25 2.30 2.35 2.40



#14

Carbon disulfide

Concen: 5.555 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU032771.D

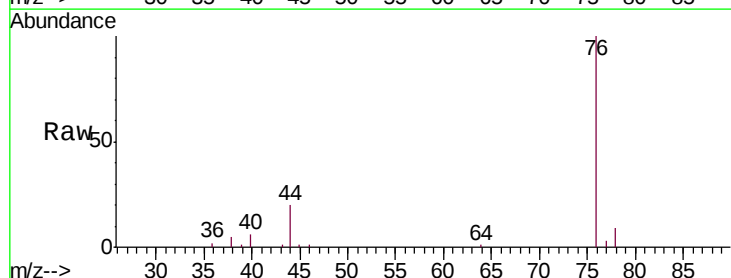
Acq: 17 Jun 2019 10:38

Tgt Ion: 76 Resp: 23193

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VU032771.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU032771.D (-417) (-)

2.47

15000

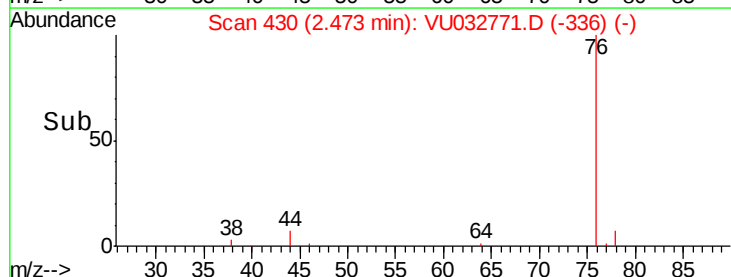
10000

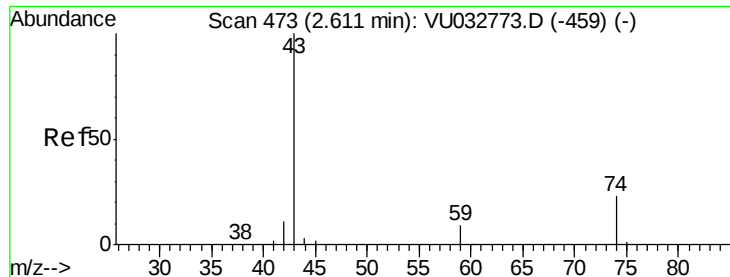
5000

0

Time-->

2.40 2.45 2.50

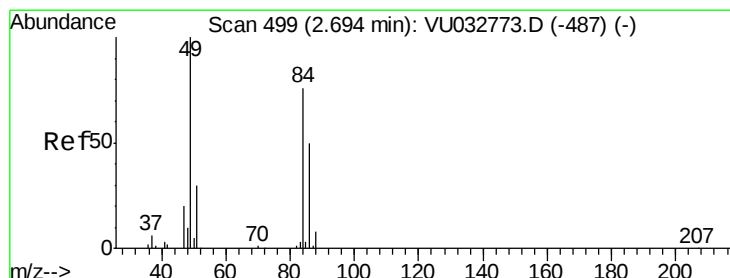
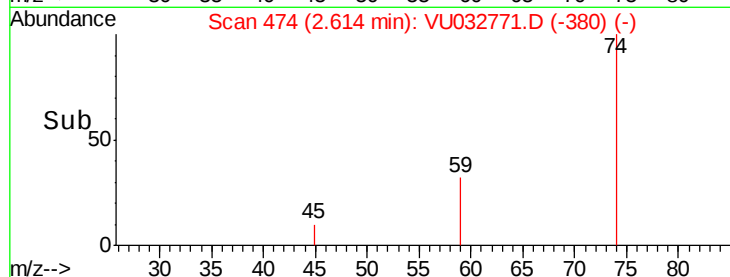
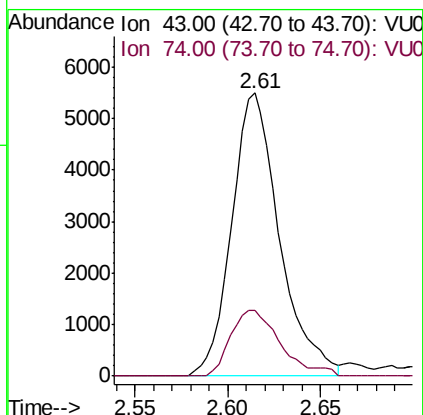
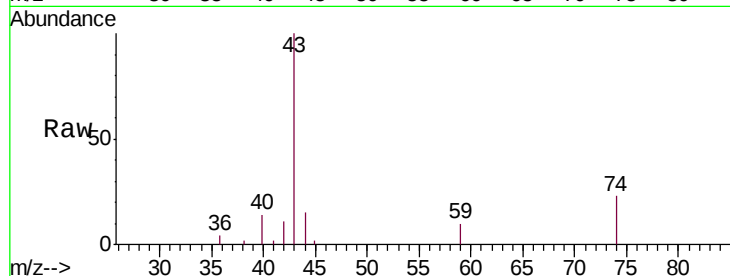




#15
Methyl Acetate
Concen: 5.371 ug/L
RT: 2.61 min Scan# 474
Delta R.T. 0.00 min
Lab File: VU032771.D
Acq: 17 Jun 2019 10:38

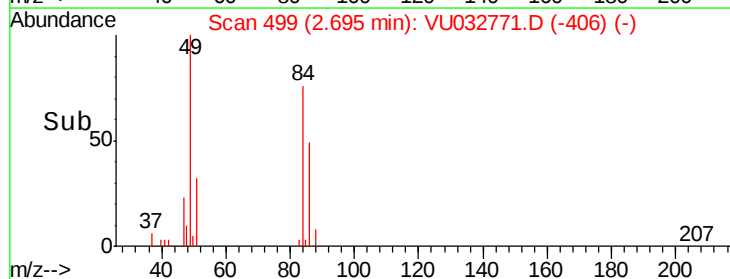
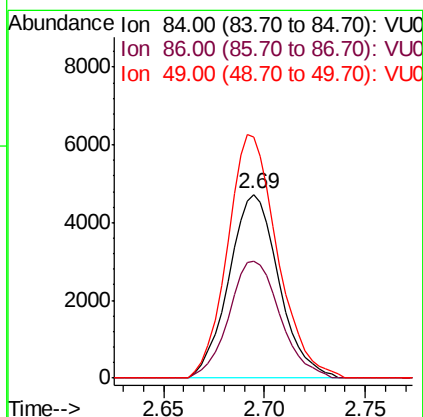
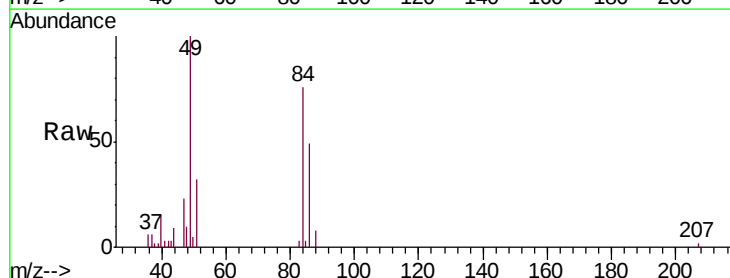
Instrument :
MSVOA_U
ClientSampleId :
VSTD00531

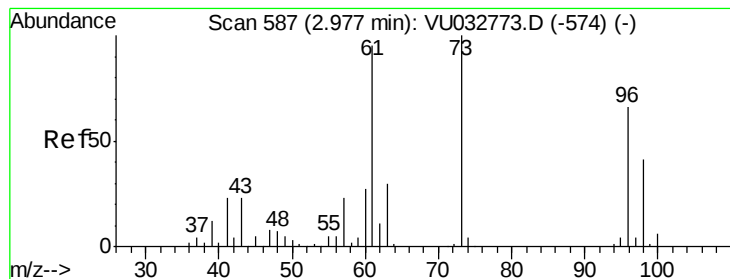
Tgt Ion: 43 Resp: 9860
Ion Ratio Lower Upper
43 100
74 23.3 18.1 27.1



#16
Methylene chloride
Concen: 5.228 ug/L
RT: 2.69 min Scan# 499
Delta R.T. 0.00 min
Lab File: VU032771.D
Acq: 17 Jun 2019 10:38

Tgt Ion: 84 Resp: 8190
Ion Ratio Lower Upper
84 100
86 63.8 45.5 84.5
49 131.2 92.1 171.1





#17

trans-1,2-Dichloroethene

Concen: 5.407 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00531

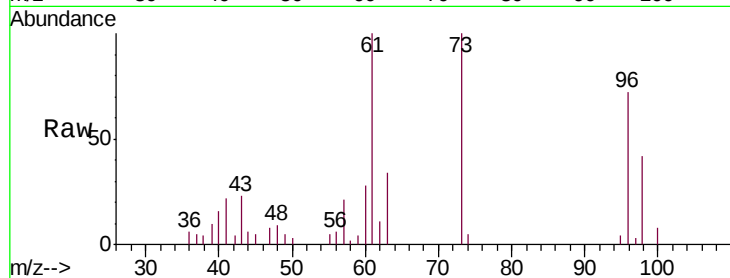
Tgt Ion: 96 Resp: 7985

Ion Ratio Lower Upper

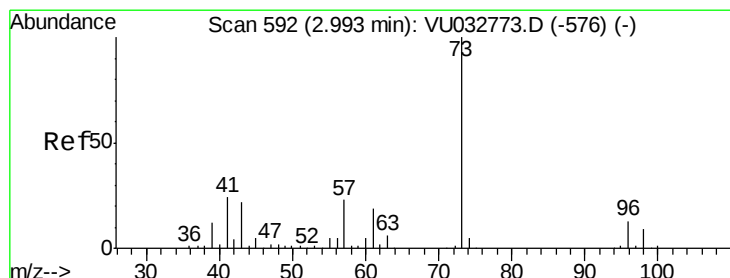
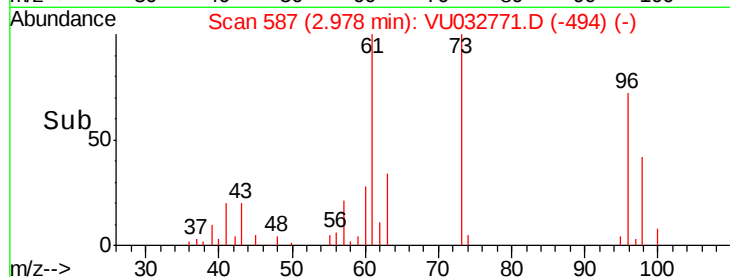
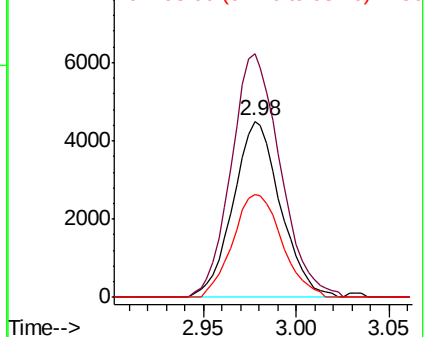
96 100

61 138.1 100.9 187.5

98 58.4 44.0 81.8



Abundance Ion 96.00 (95.70 to 96.70): VU0
Ion 61.00 (60.70 to 61.70): VU0
Ion 98.00 (97.70 to 98.70): VU0



#18

Methyl tert-butyl Ether

Concen: 4.892 ug/L

RT: 2.99 min Scan# 592

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

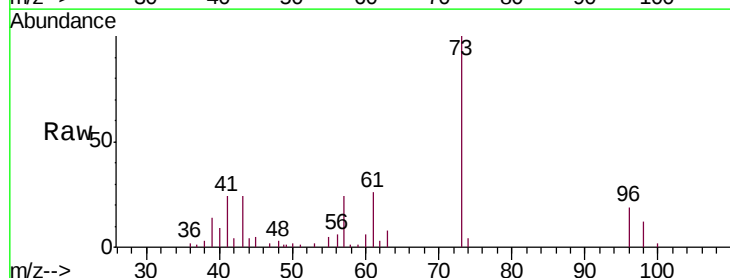
Tgt Ion: 73 Resp: 23713

Ion Ratio Lower Upper

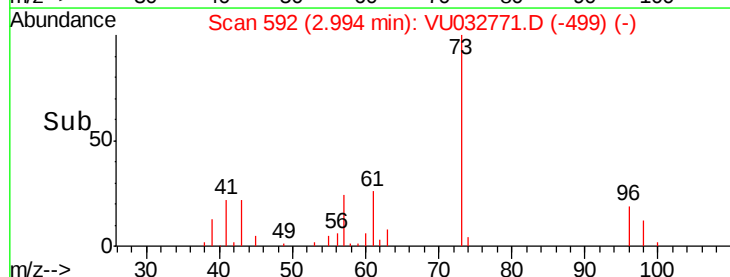
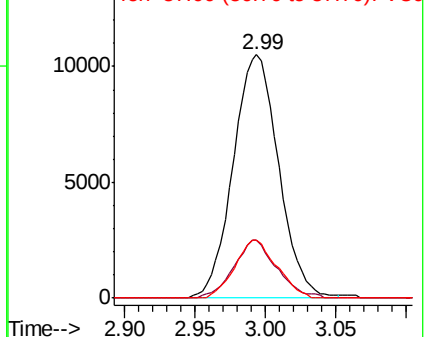
73 100

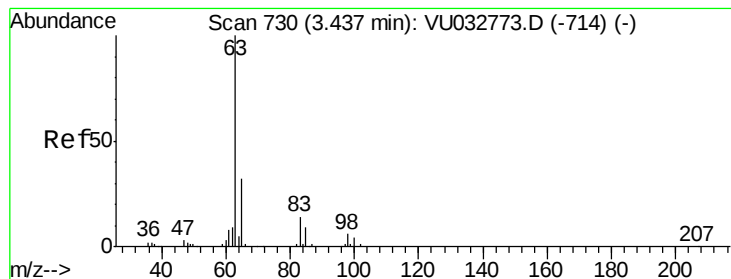
43 22.5 17.8 26.8

57 21.9 17.8 26.6



Abundance Ion 73.00 (72.70 to 73.70): VU0
Ion 43.00 (42.70 to 43.70): VU0
Ion 57.00 (56.70 to 57.70): VU0





#19

1,1-Dichloroethane

Concen: 5.219 ug/L

RT: 3.44 min Scan# 731

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00531

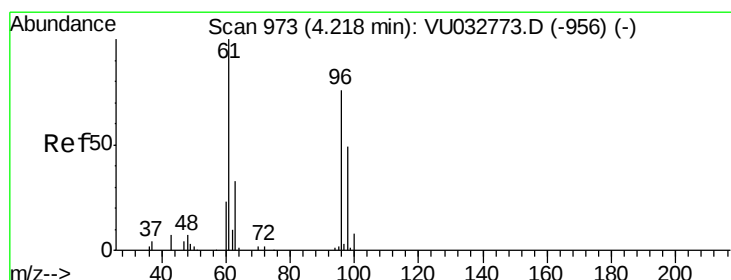
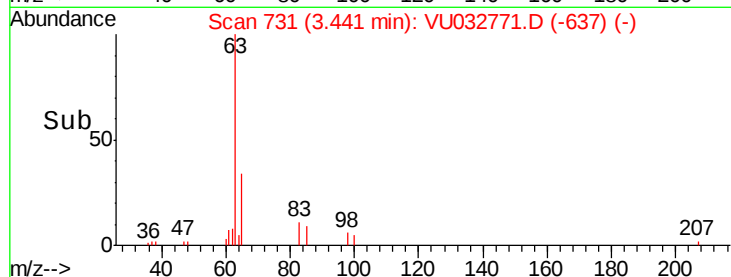
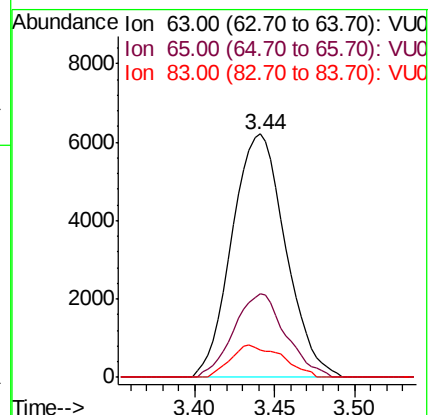
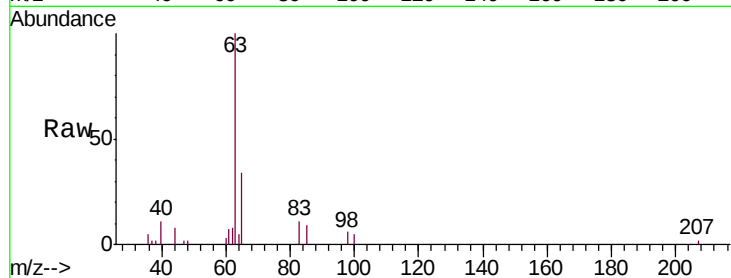
Tgt Ion: 63 Resp: 14248

Ion Ratio Lower Upper

63 100

65 34.3 22.0 41.0

83 11.0 9.5 17.7



#20

cis-1,2-Dichloroethene

Concen: 4.796 ug/L

RT: 4.22 min Scan# 973

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

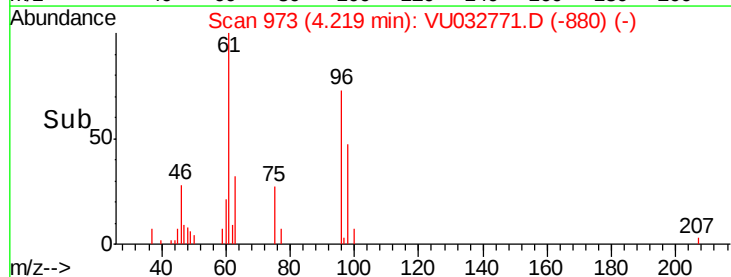
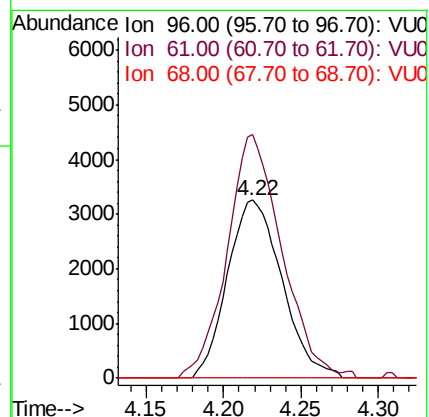
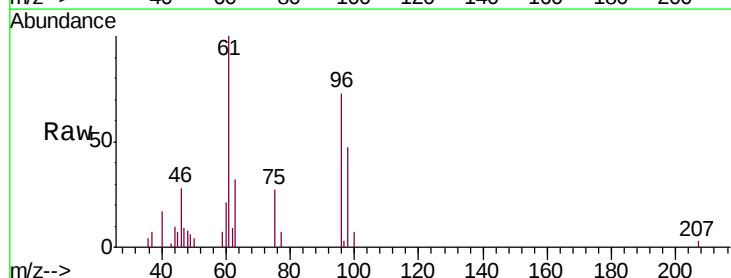
Tgt Ion: 96 Resp: 7978

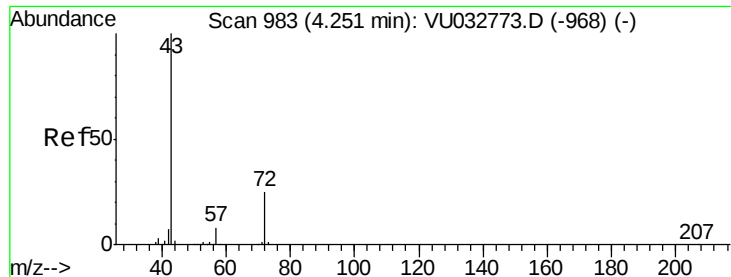
Ion Ratio Lower Upper

96 100

61 137.0 92.4 171.6

68 0.0 0.0 0.0





#22

2-Butanone

Concen: 5.003 ug/L

RT: 4.26 min Scan# 986

Delta R.T. 0.01 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

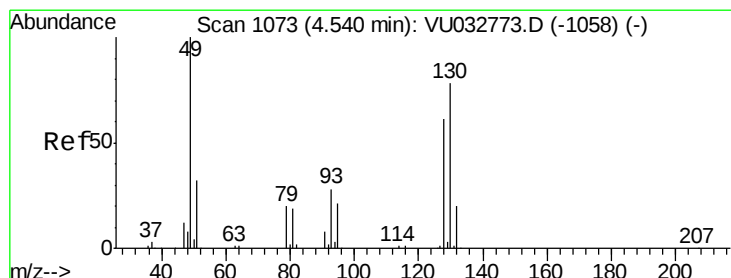
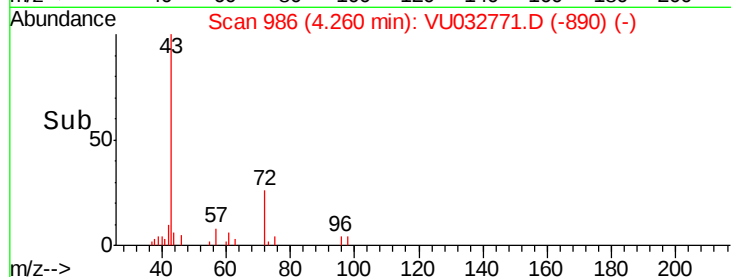
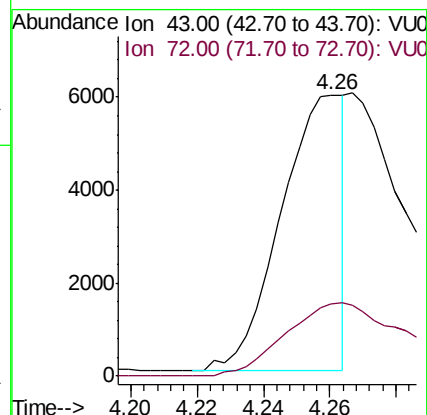
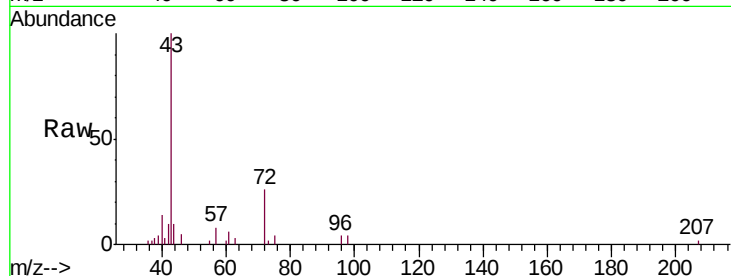
VSTD00531

Tgt Ion: 43 Resp: 7812

Ion Ratio Lower Upper

43 100

72 52.5 12.9 38.6#



#23

Bromochloromethane

Concen: 4.574 ug/L

RT: 4.54 min Scan# 1073

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Tgt Ion: 128 Resp: 3961

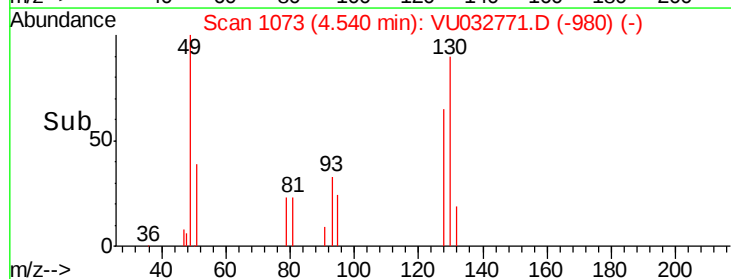
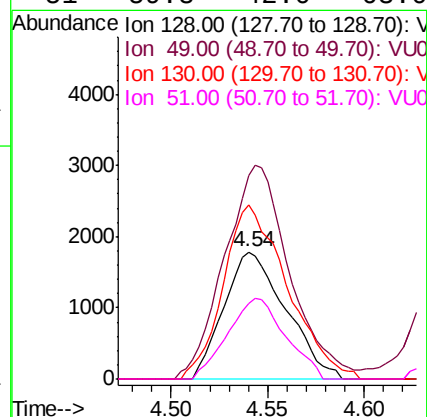
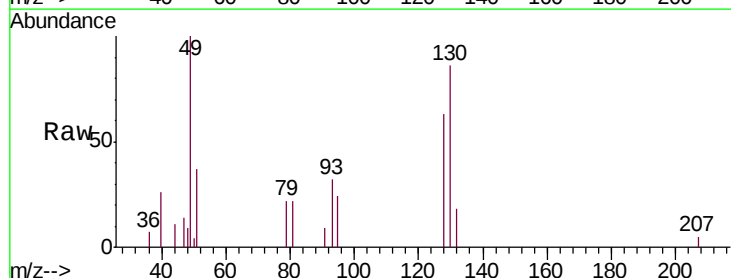
Ion Ratio Lower Upper

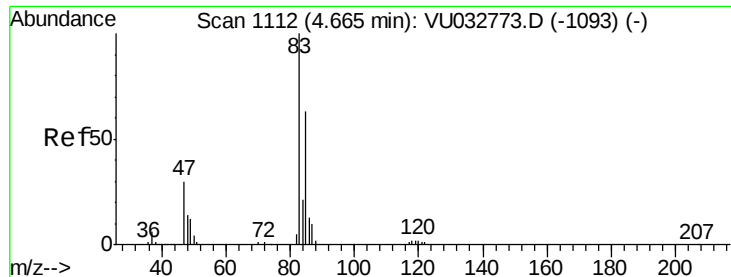
128 100

49 159.4 114.7 212.9

130 137.1 89.4 166.0

51 59.8 42.0 63.0





#25

Chloroform

Concen: 5.306 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

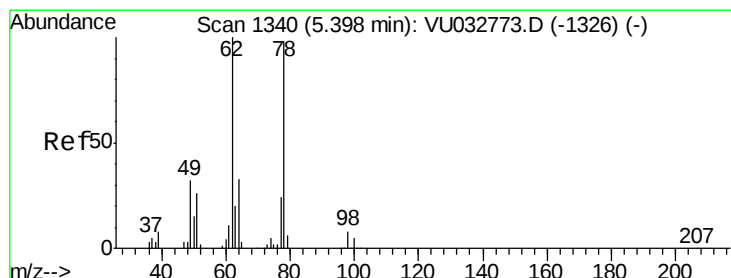
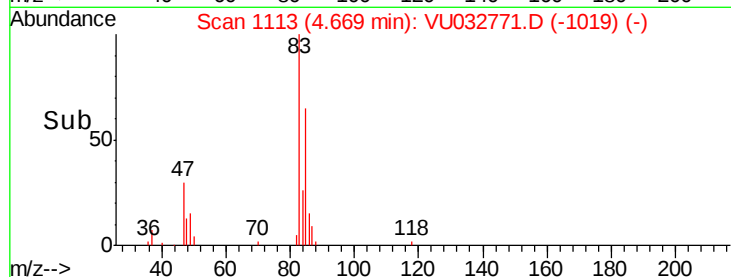
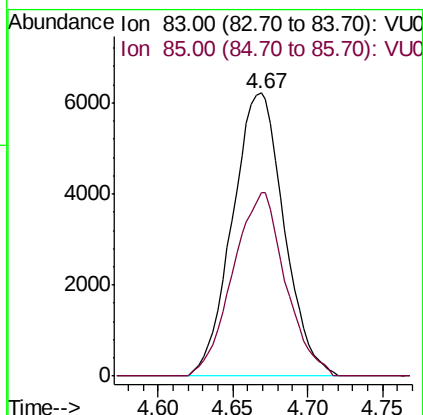
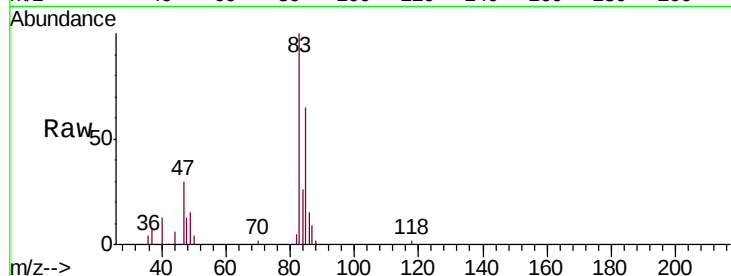
VSTD00531

Tgt Ion: 83 Resp: 14928

Ion Ratio Lower Upper

83 100

85 65.0 44.2 82.2



#27

1,2-Dichloroethane

Concen: 5.381 ug/L

RT: 5.40 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VU032771.D

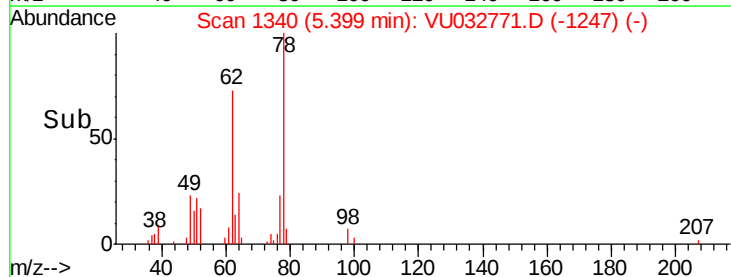
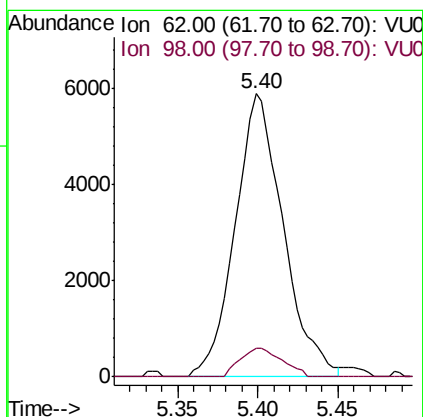
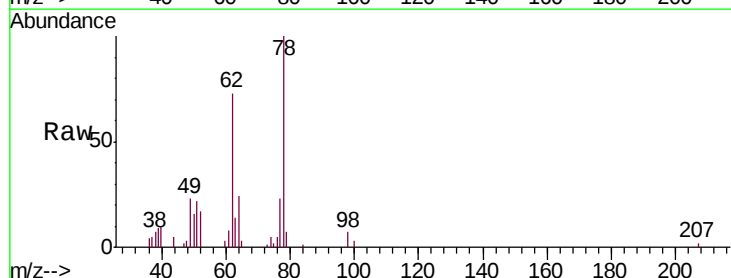
Acq: 17 Jun 2019 10:38

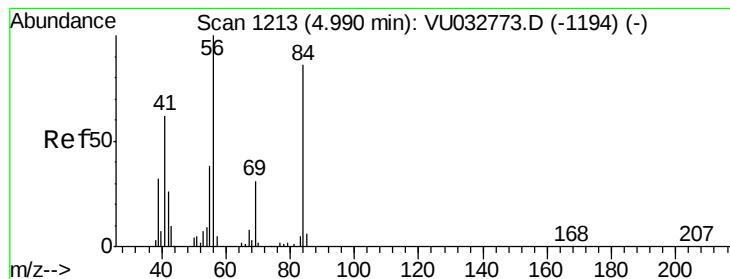
Tgt Ion: 62 Resp: 12119

Ion Ratio Lower Upper

62 100

98 9.9 6.6 10.0





#29

Cyclohexane

Concen: 4.837 ug/L

RT: 4.98 min Scan# 1211

Delta R.T. -0.01 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00531

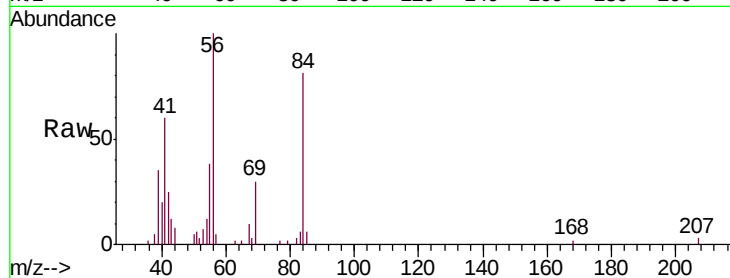
Tgt Ion: 56 Resp: 12410

Ion Ratio Lower Upper

56 100

69 29.8 24.2 36.4

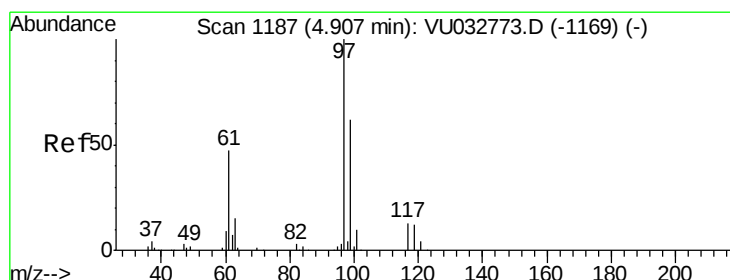
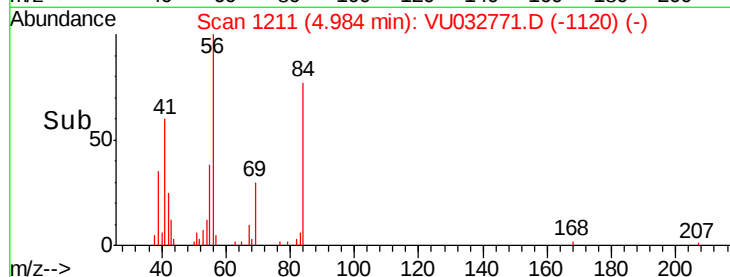
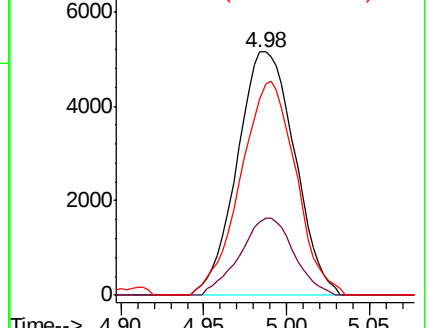
84 84.4 68.0 102.0



Abundance Ion 56.00 (55.70 to 56.70): VU032771.D (-1194) (-)

Ion 69.00 (68.70 to 69.70): VU032771.D (-1194) (-)

Ion 84.00 (83.70 to 84.70): VU032771.D (-1194) (-)



#30

1,1,1-Trichloroethane

Concen: 5.325 ug/L

RT: 4.91 min Scan# 1187

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

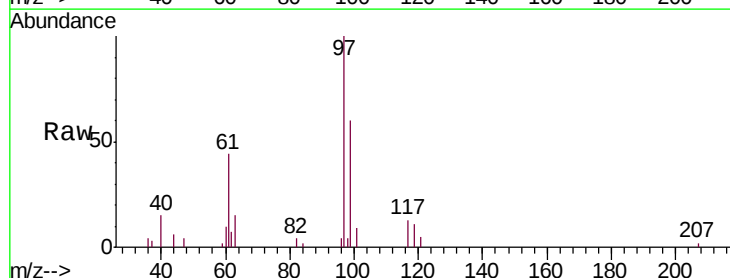
Tgt Ion: 97 Resp: 13174

Ion Ratio Lower Upper

97 100

99 63.3 50.7 76.1

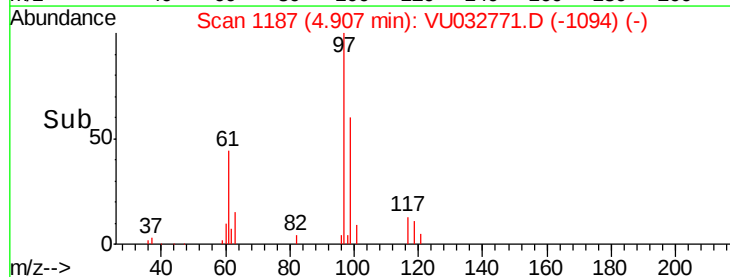
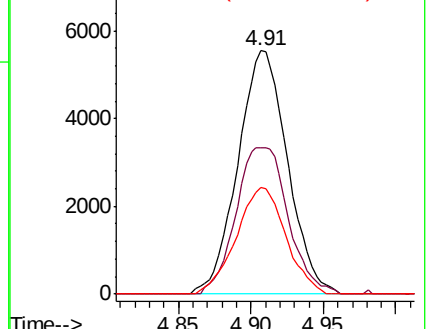
61 44.0 36.7 55.1

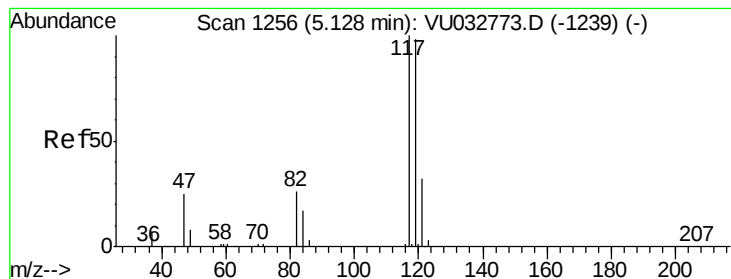


Abundance Ion 97.00 (96.70 to 97.70): VU032771.D (-1094) (-)

Ion 99.00 (98.70 to 99.70): VU032771.D (-1094) (-)

Ion 61.05 (60.75 to 61.75): VU032771.D (-1094) (-)





#31

Carbon tetrachloride

Concen: 5.096 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

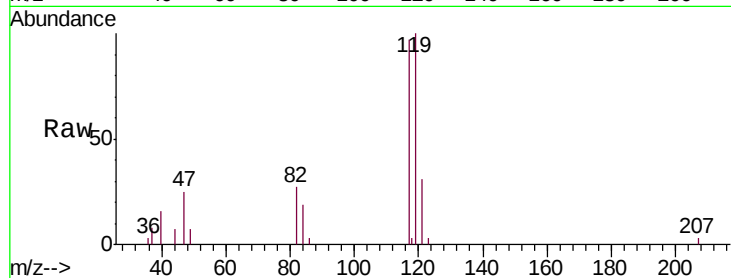
VSTD00531

Tgt Ion:117 Resp: 11581

Ion Ratio Lower Upper

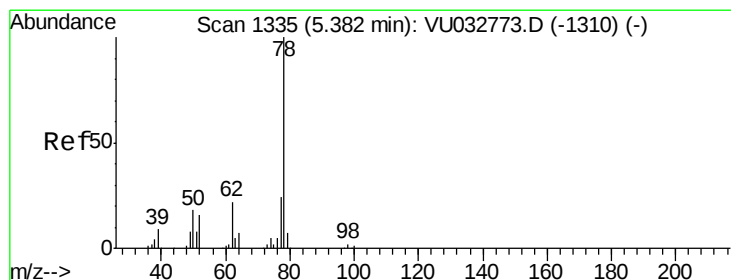
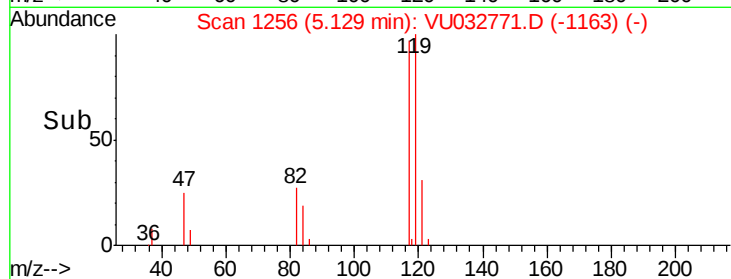
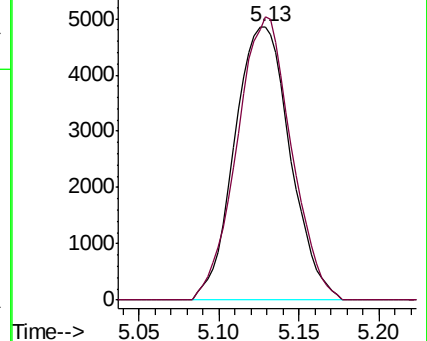
117 100

119 101.1 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: 5.114 ug/L

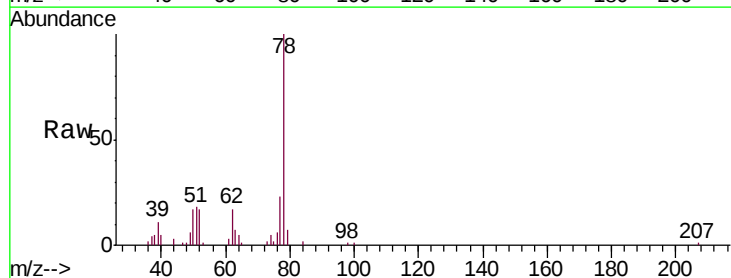
RT: 5.38 min Scan# 1335

Delta R.T. 0.00 min

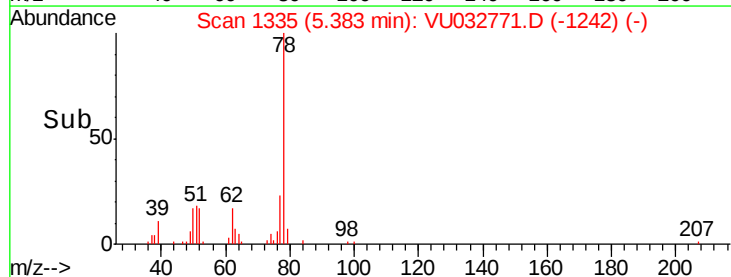
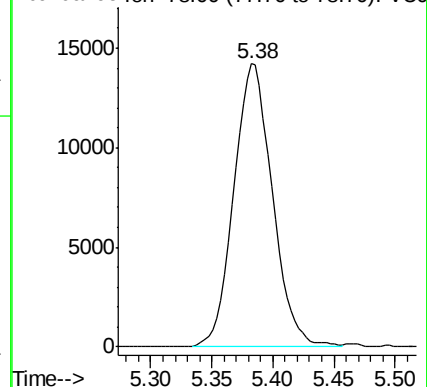
Lab File: VU032771.D

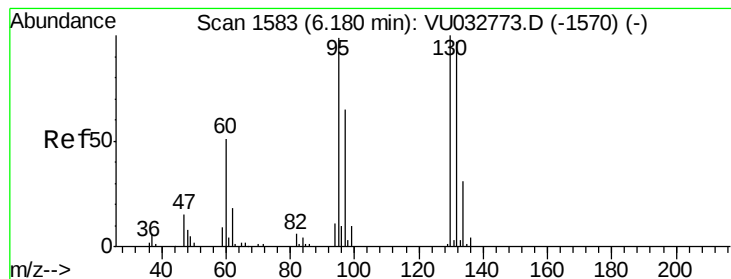
Acq: 17 Jun 2019 10:38

Tgt Ion: 78 Resp: 31216



Abundance Ion 78.00 (77.70 to 78.70): VU0





#34

Trichloroethene

Concen: 5.217 ug/L

RT: 6.18 min Scan# 1583

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00531

Tgt Ion: 95 Resp: 8645

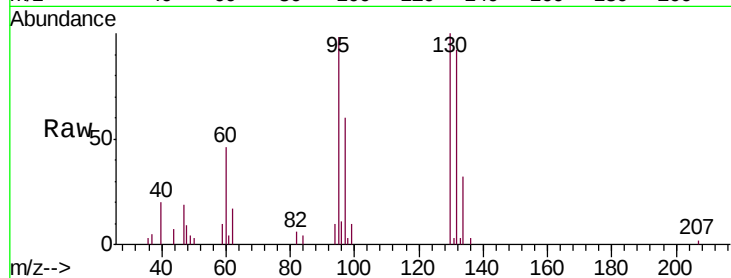
Ion Ratio Lower Upper

95 100

97 61.7 45.9 85.3

132 94.7 68.5 127.3

130 102.4 70.8 131.4

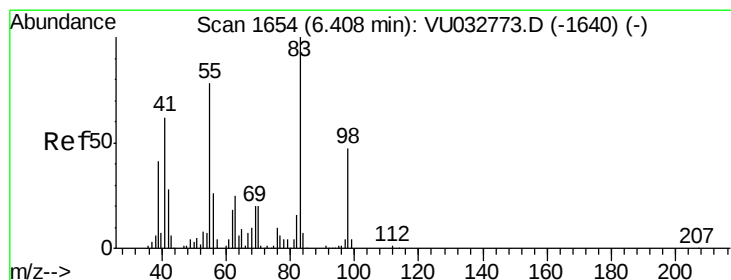
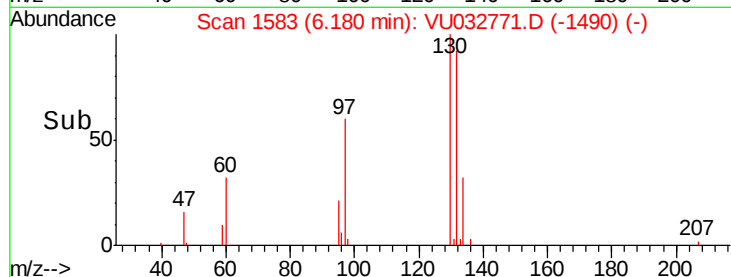
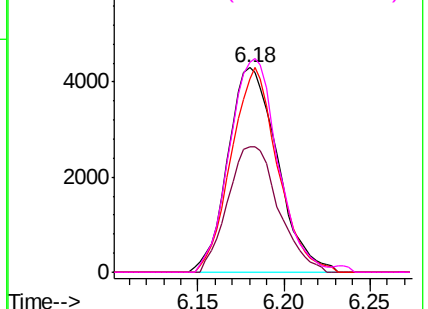


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 4.644 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

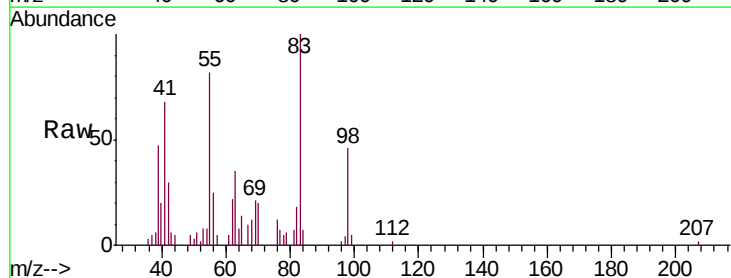
Tgt Ion: 83 Resp: 12386

Ion Ratio Lower Upper

83 100

55 82.3 62.6 94.0

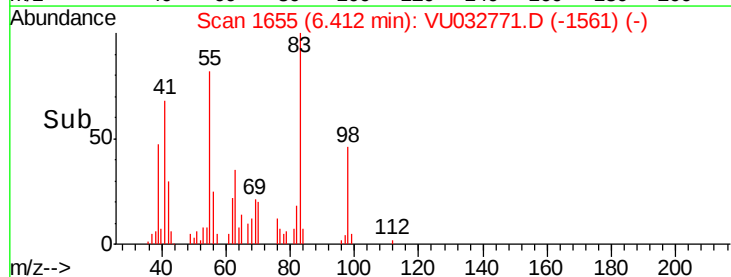
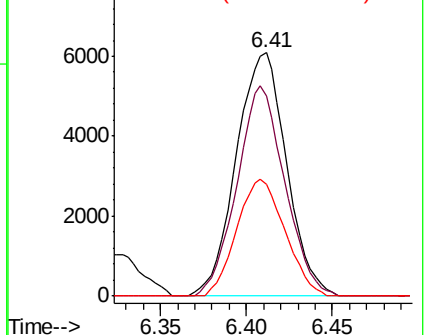
98 45.9 37.4 56.0

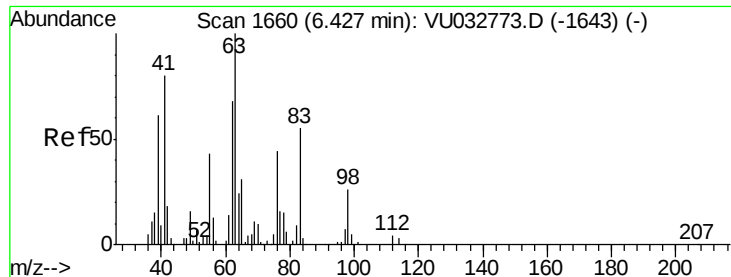


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 5.190 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

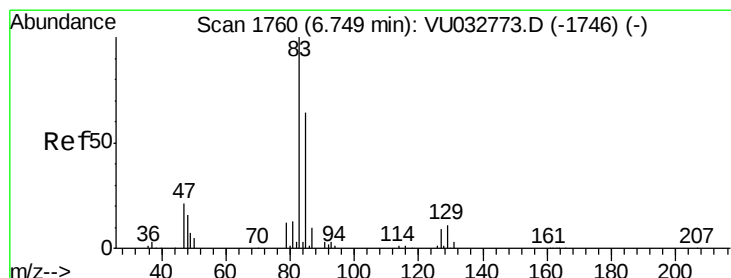
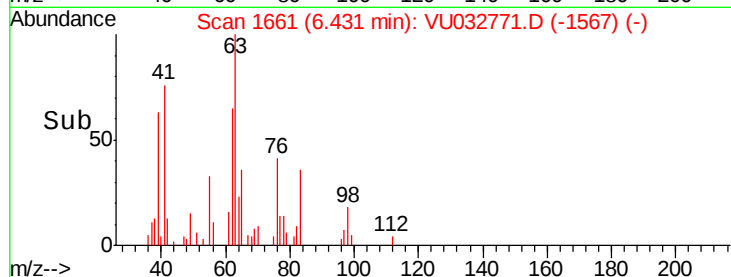
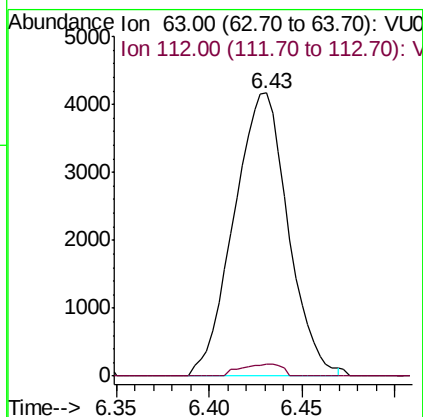
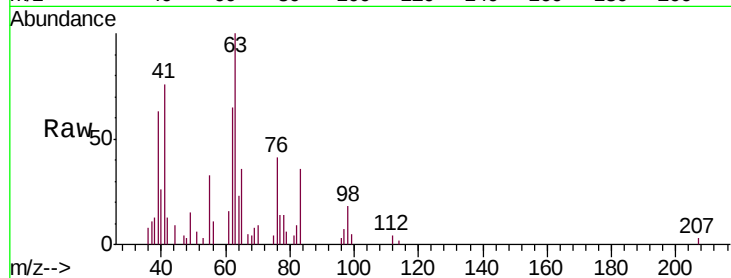
VSTD00531

Tgt Ion: 63 Resp: 8490

Ion Ratio Lower Upper

63 100

112 2.7 3.0 4.6#



#38

Bromodichloromethane

Concen: 5.120 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

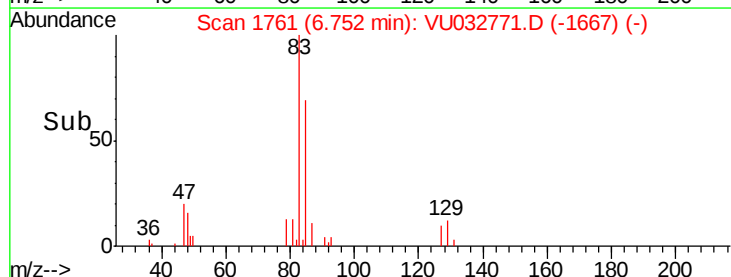
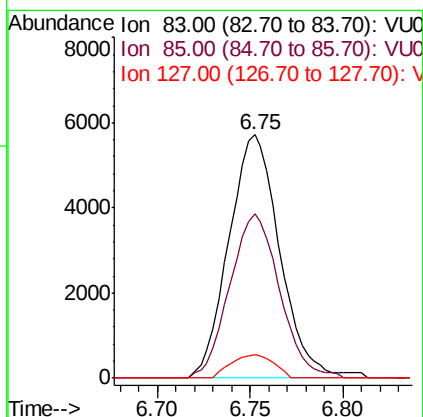
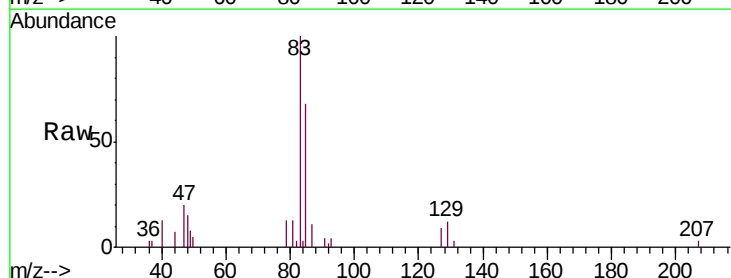
Tgt Ion: 83 Resp: 10830

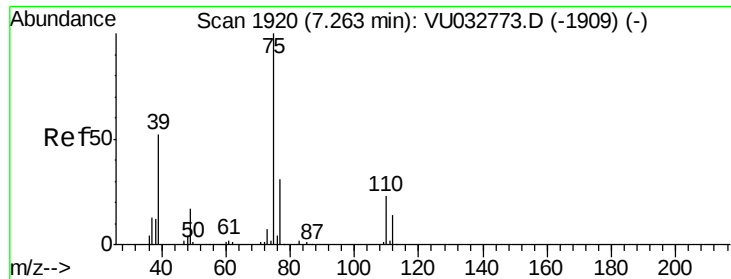
Ion Ratio Lower Upper

83 100

85 67.5 45.0 83.6

127 9.4 7.0 10.6

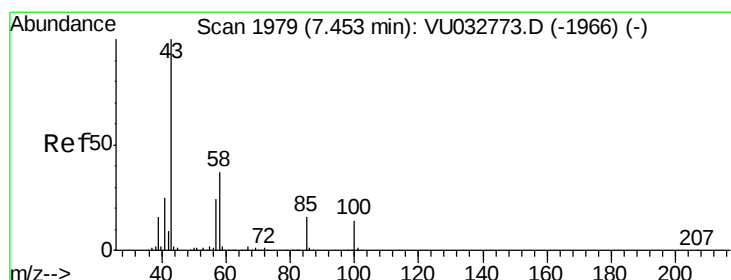
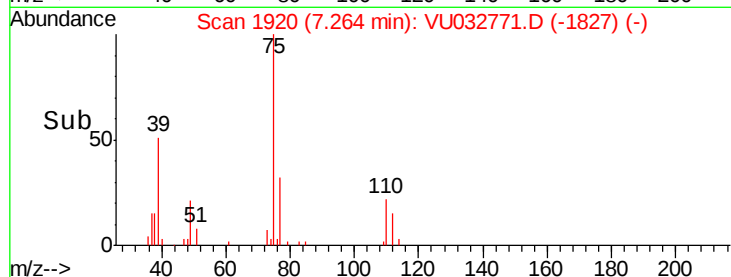
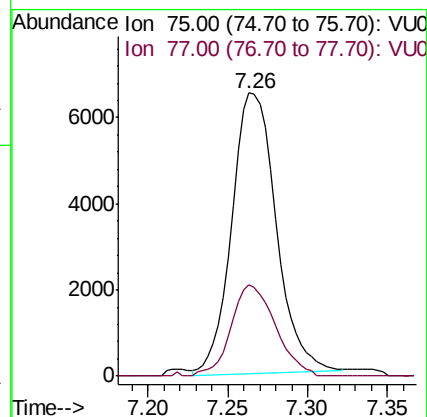
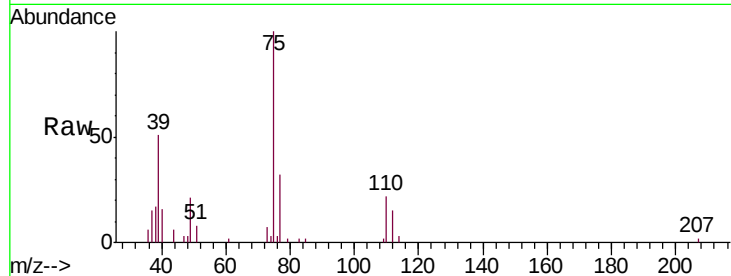




#39
 cis-1,3-Dichloropropene
 Concen: 4.809 ug/L
 RT: 7.26 min Scan# 1920
 Delta R.T. 0.00 min
 Lab File: VU032771.D
 Acq: 17 Jun 2019 10:38

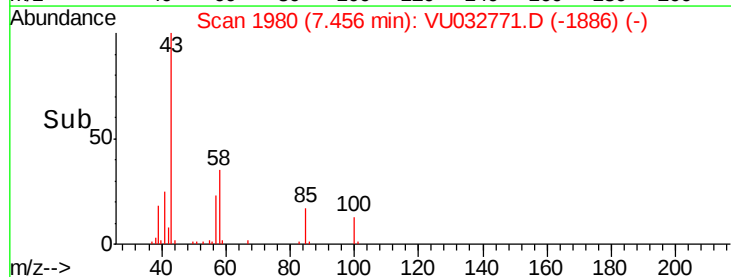
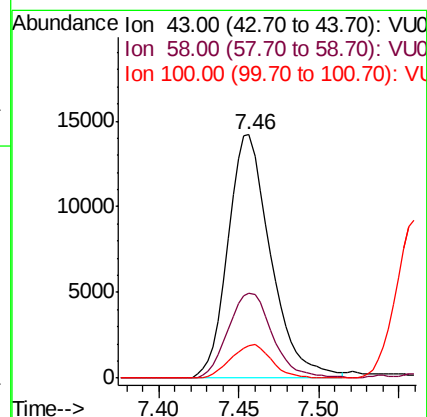
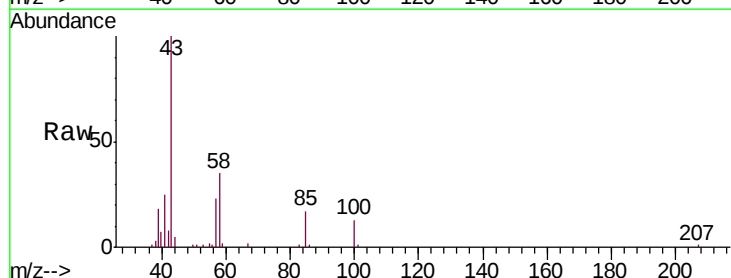
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00531

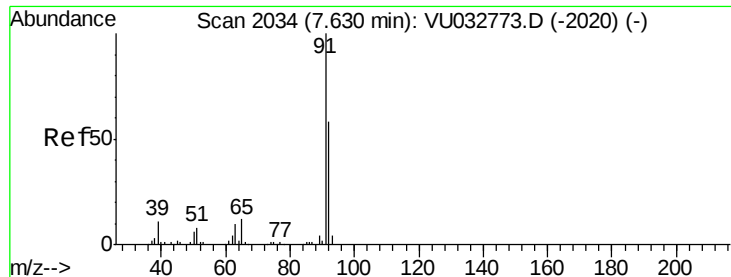
Tgt Ion: 75 Resp: 12335
 Ion Ratio Lower Upper
 75 100
 77 32.3 21.9 40.7



#40
 4-Methyl-2-pentanone
 Concen: 10.005 ug/L
 RT: 7.46 min Scan# 1980
 Delta R.T. 0.00 min
 Lab File: VU032771.D
 Acq: 17 Jun 2019 10:38

Tgt Ion: 43 Resp: 25947
 Ion Ratio Lower Upper
 43 100
 58 36.1 29.4 44.2
 100 13.0 11.2 16.8





#42

Toluene

Concen: 4.877 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

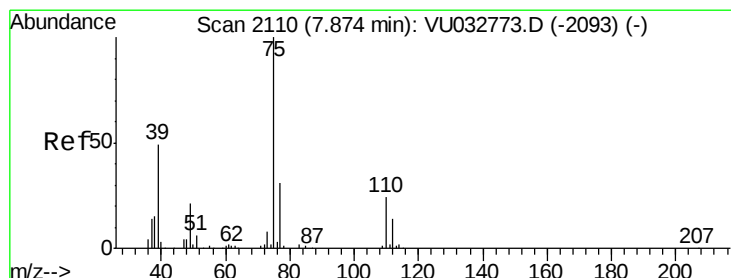
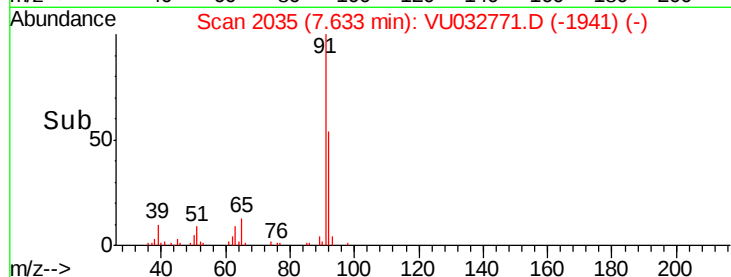
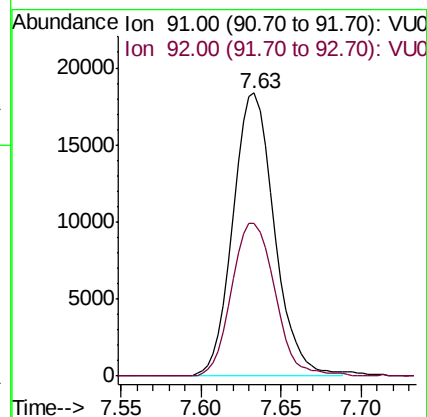
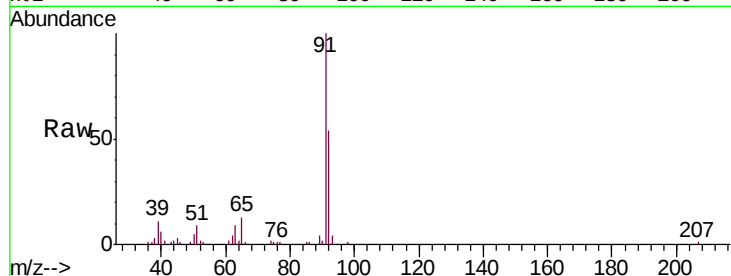
VSTD00531

Tgt Ion: 91 Resp: 32567

Ion Ratio Lower Upper

91 100

92 53.9 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 5.125 ug/L

RT: 7.88 min Scan# 2111

Delta R.T. 0.00 min

Lab File: VU032771.D

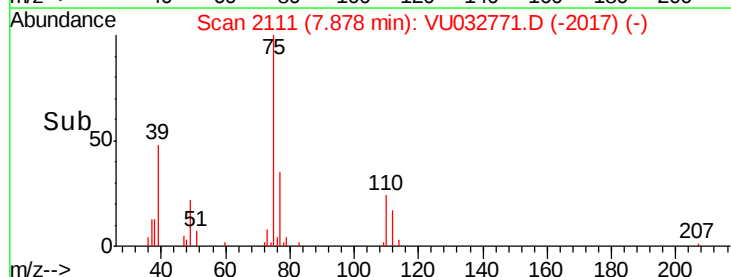
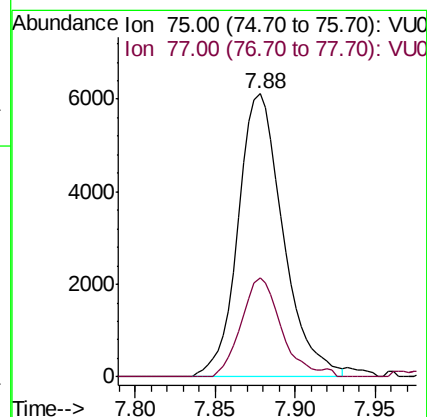
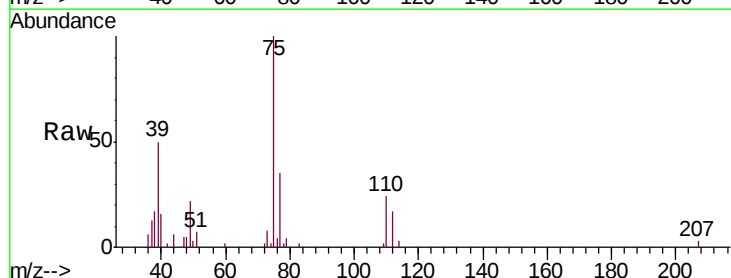
Acq: 17 Jun 2019 10:38

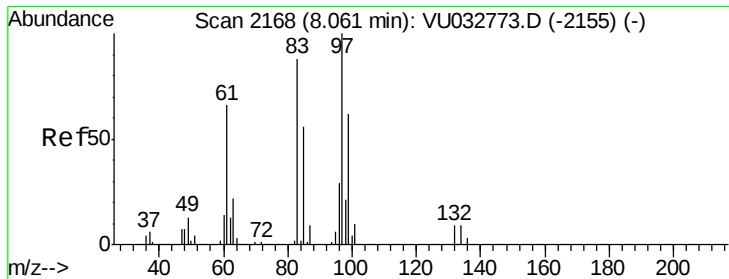
Tgt Ion: 75 Resp: 11783

Ion Ratio Lower Upper

75 100

77 35.2 21.8 40.4





#45

1,1,2-Trichloroethane

Concen: 5.012 ug/L

RT: 8.06 min Scan# 2168

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00531

Tgt Ion: 97 Resp: 7679

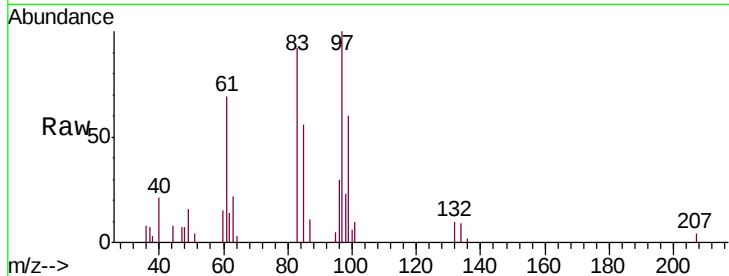
Ion Ratio Lower Upper

97 100

99 60.4 43.1 80.1

83 92.2 61.4 114.0

85 56.1 39.2 72.8

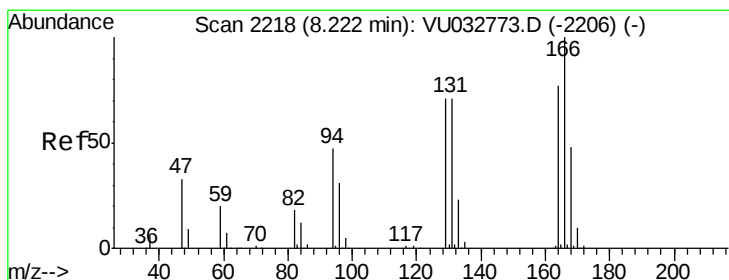
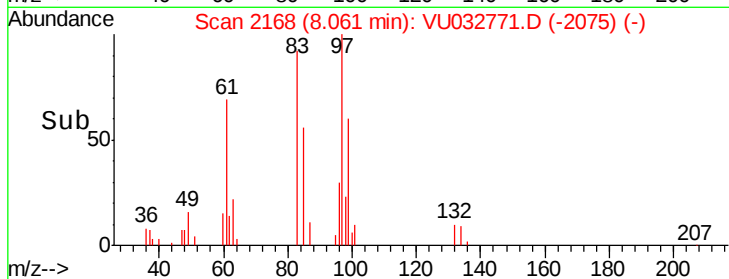
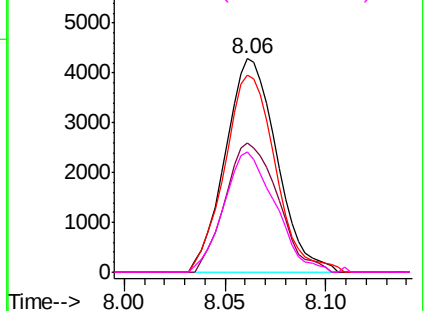


Abundance Ion 97.00 (96.70 to 97.70): VU0

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: 4.937 ug/L

RT: 8.22 min Scan# 2218

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Tgt Ion: 164 Resp: 6741

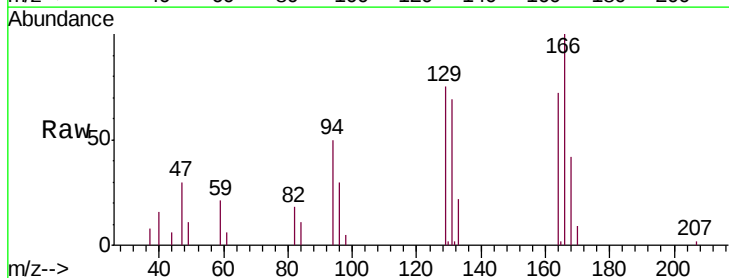
Ion Ratio Lower Upper

164 100

129 103.3 64.8 120.3

131 95.5 64.5 119.7

166 138.6 91.3 169.6

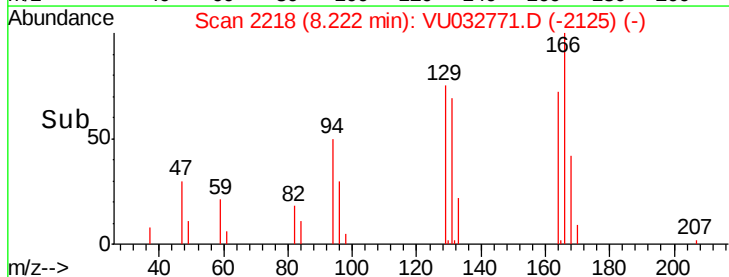
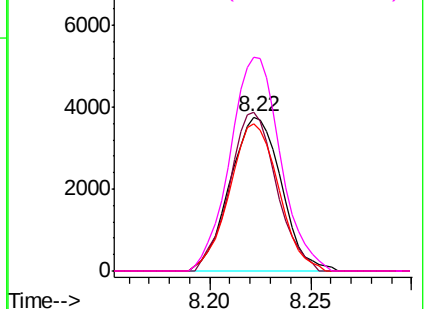


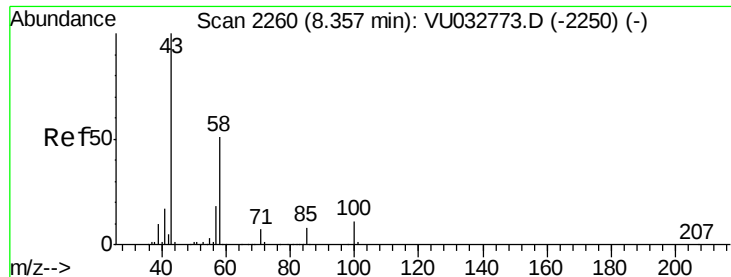
Abundance Ion 164.00 (163.70 to 164.70): V

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

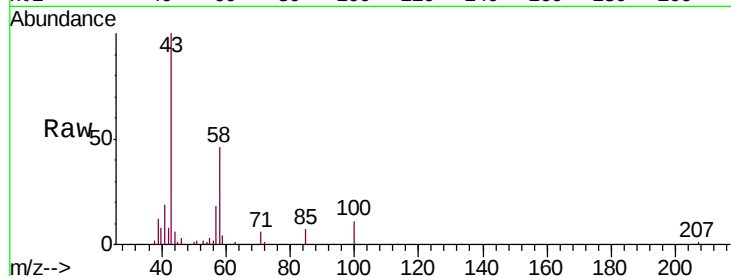




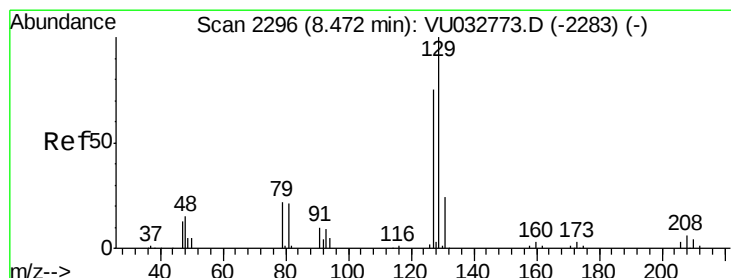
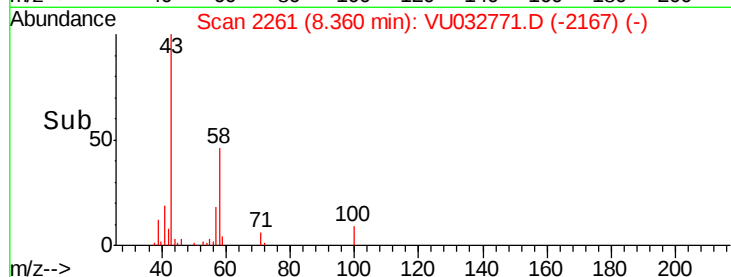
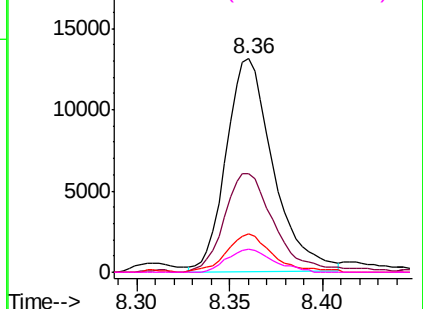
#48
2-Hexanone
Concen: 10.631 ug/L
RT: 8.36 min Scan# 2261
Delta R.T. 0.00 min
Lab File: VU032771.D
Acq: 17 Jun 2019 10:38

Instrument :
MSVOA_U
ClientSampleId :
VSTD00531

Tgt Ion:	43	Resp:	23031
Ion	Ratio	Lower	Upper
43	100		
58	50.3	40.2	60.2
57	17.8	14.2	21.4
100	10.7	8.4	12.6

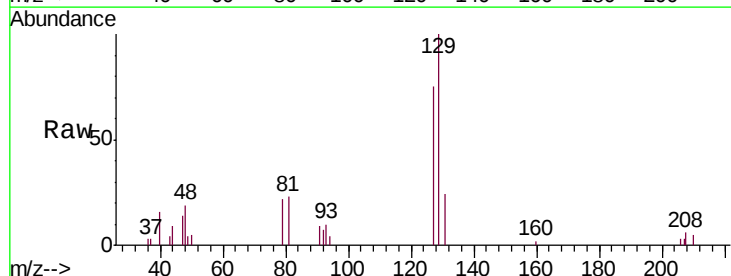


Abundance Ion 43.00 (42.70 to 43.70): VU032771.D (-2250) (-)
Ion 58.00 (57.70 to 58.70): VU032771.D (-2250) (-)
Ion 57.00 (56.70 to 57.70): VU032771.D (-2250) (-)
Ion 100.00 (99.70 to 100.70): VU032771.D (-2250) (-)

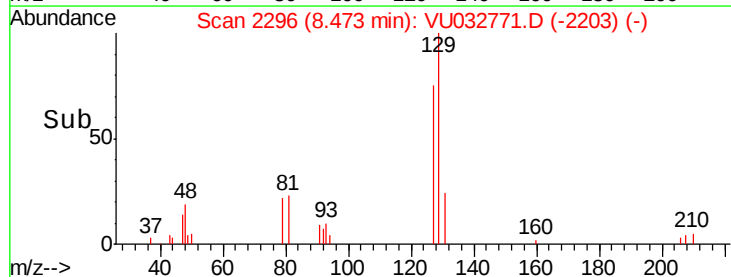
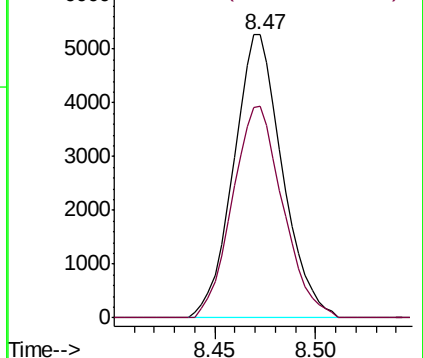


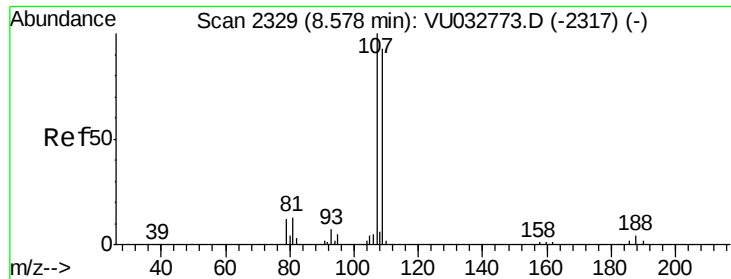
#49
Dibromochloromethane
Concen: 4.968 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032771.D
Acq: 17 Jun 2019 10:38

Tgt Ion:	129	Resp:	8913
Ion	Ratio	Lower	Upper
129	100		
127	74.9	52.3	97.1



Abundance Ion 129.00 (128.70 to 129.70): VU032771.D (-2283) (-)
Ion 127.00 (126.70 to 127.70): VU032771.D (-2283) (-)

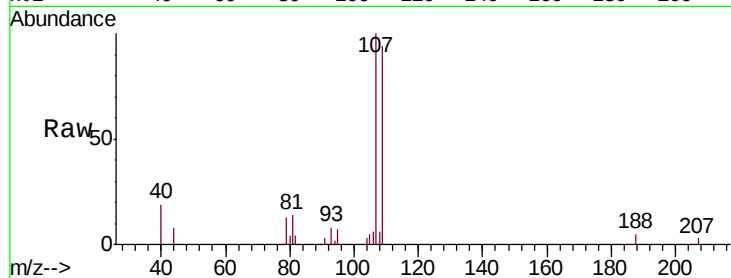




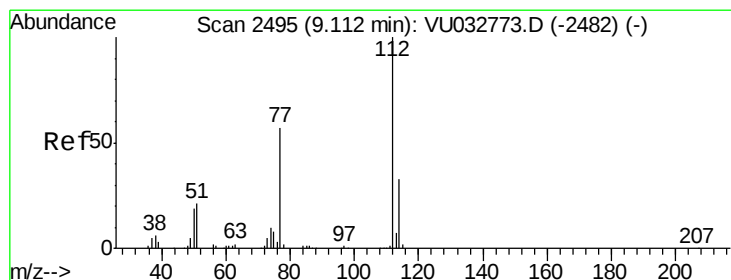
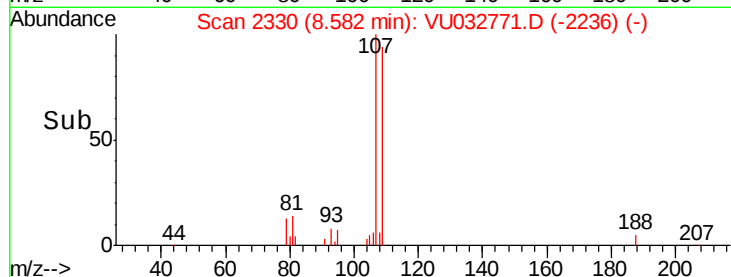
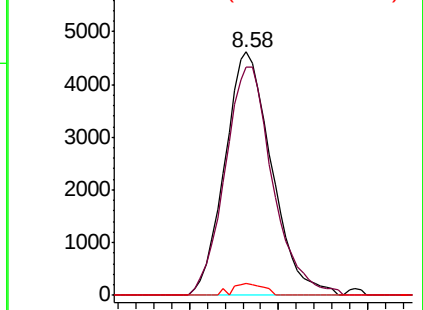
#50
1,2-Dibromoethane
Concen: 4.882 ug/L
RT: 8.58 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VU032771.D
Acq: 17 Jun 2019 10:38

Instrument :
MSVOA_U
ClientSampleId :
VSTD00531

Tgt Ion:107 Resp: 8416
Ion Ratio Lower Upper
107 100
109 93.8 65.4 121.4
188 4.9 3.1 4.7#

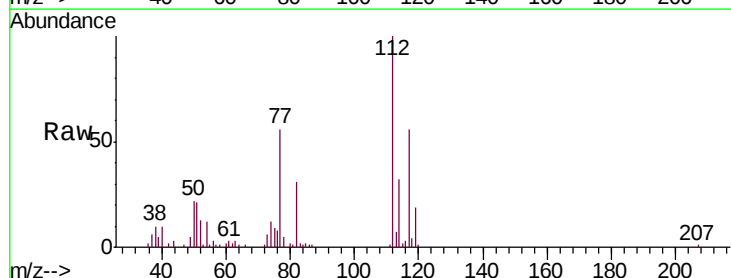


Abundance Ion 107.00 (106.70 to 107.70): V
Ion 109.00 (108.70 to 109.70): V
Ion 188.00 (187.70 to 188.70): V

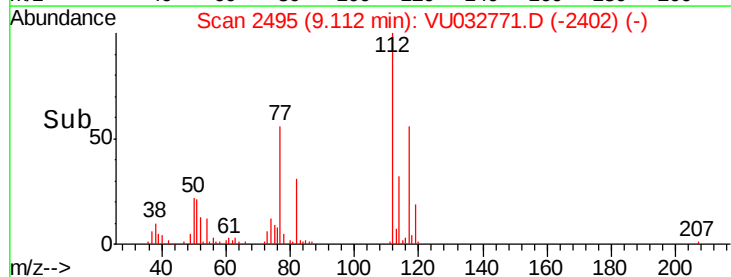
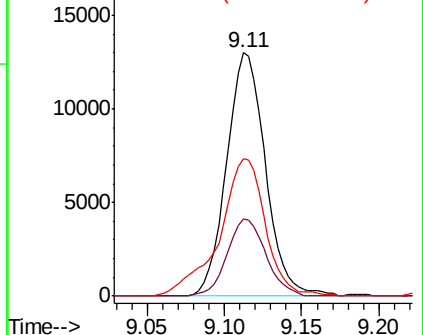


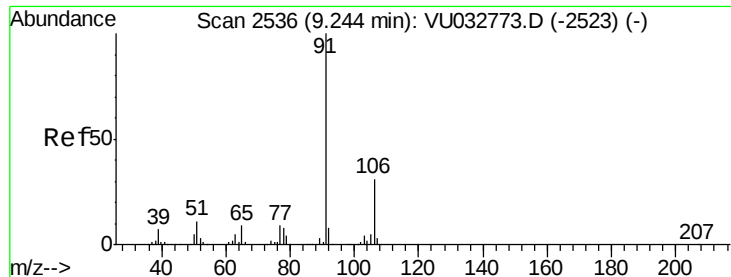
#51
Chlorobenzene
Concen: 5.259 ug/L
RT: 9.11 min Scan# 2495
Delta R.T. 0.00 min
Lab File: VU032771.D
Acq: 17 Jun 2019 10:38

Tgt Ion:112 Resp: 22638
Ion Ratio Lower Upper
112 100
114 31.5 22.8 42.4
77 56.2 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): VU





#52

Ethylbenzene

Concen: 4.775 ug/L

RT: 9.24 min Scan# 2536

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

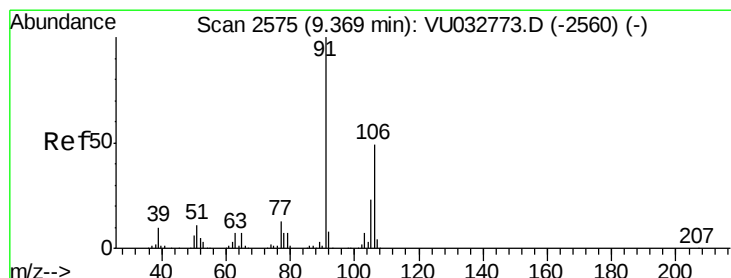
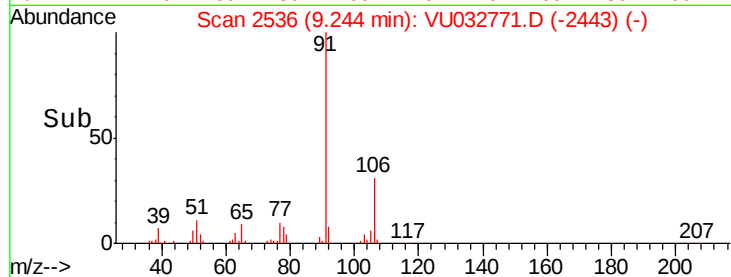
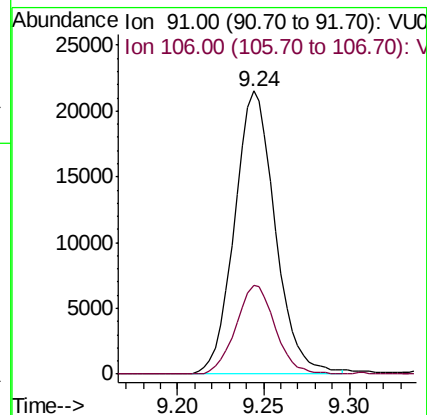
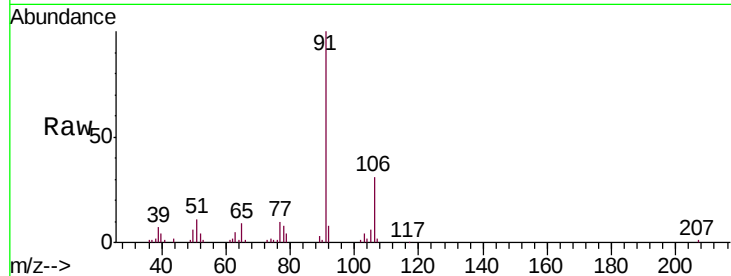
VSTD00531

Tgt Ion: 91 Resp: 35457

Ion Ratio Lower Upper

91 100

106 31.2 21.8 40.4



#53

m,p-Xylene

Concen: 4.787 ug/L

RT: 9.37 min Scan# 2575

Delta R.T. 0.00 min

Lab File: VU032771.D

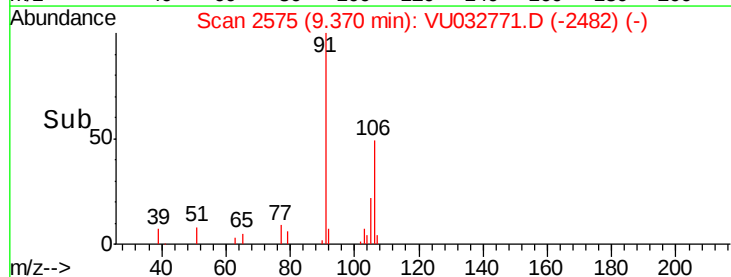
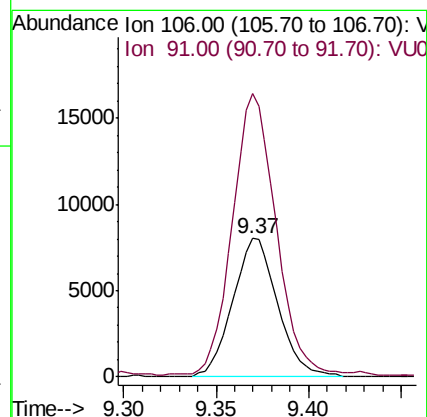
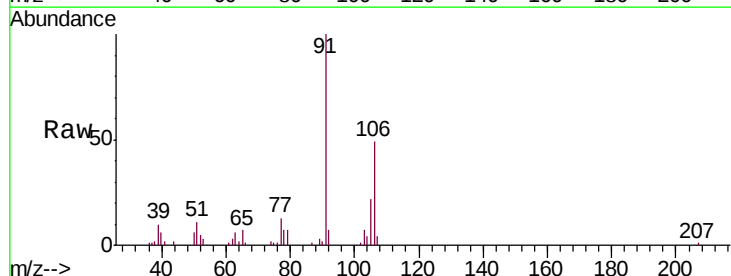
Acq: 17 Jun 2019 10:38

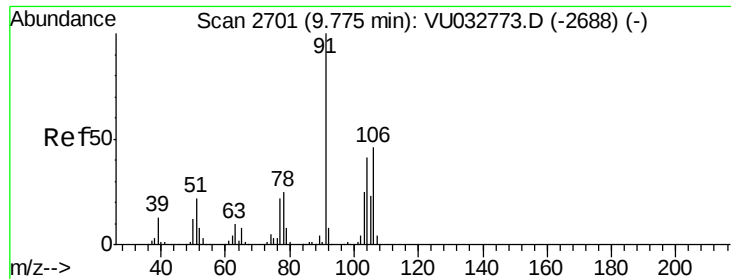
Tgt Ion: 106 Resp: 13494

Ion Ratio Lower Upper

106 100

91 204.8 142.9 265.5

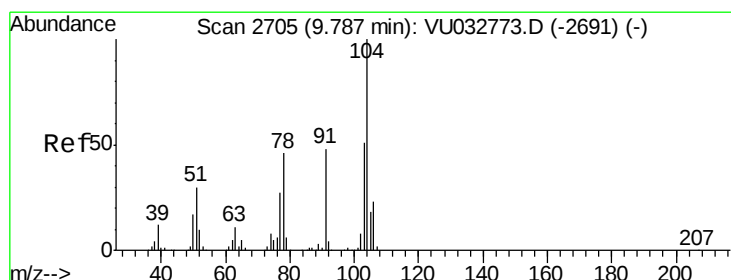
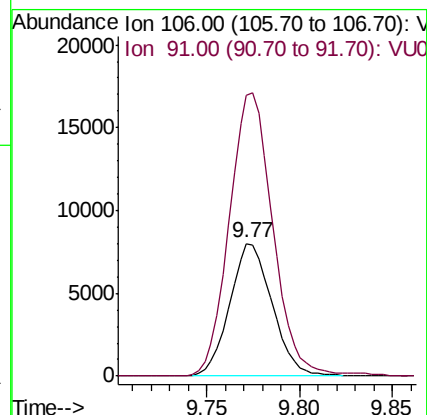
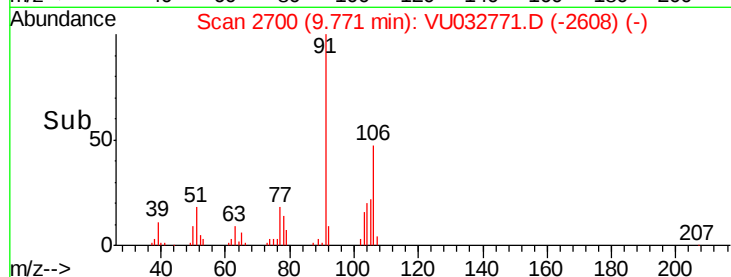
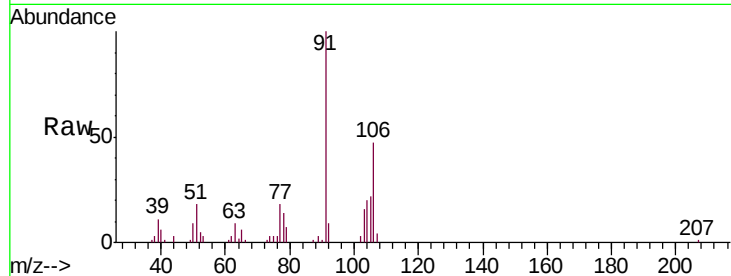




#54
o-xylene
Concen: 4.539 ug/L
RT: 9.77 min Scan# 2700
Delta R.T. -0.00 min
Lab File: VU032771.D
Acq: 17 Jun 2019 10:38

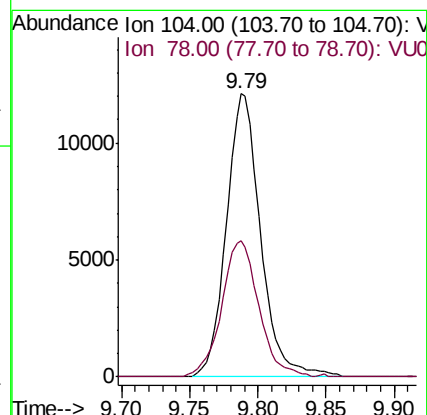
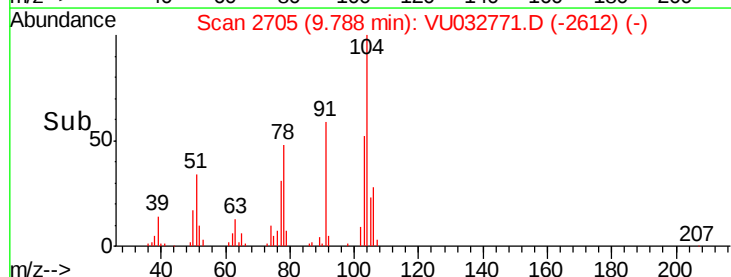
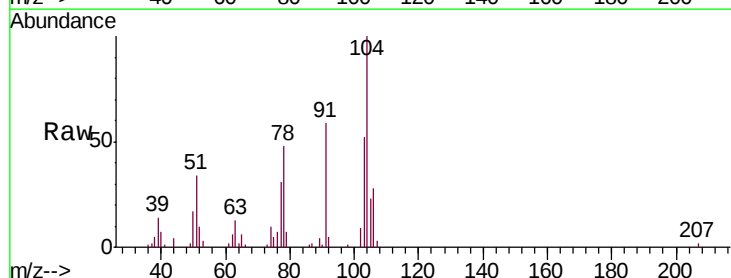
Instrument :
MSVOA_U
ClientSampleId :
VSTD00531

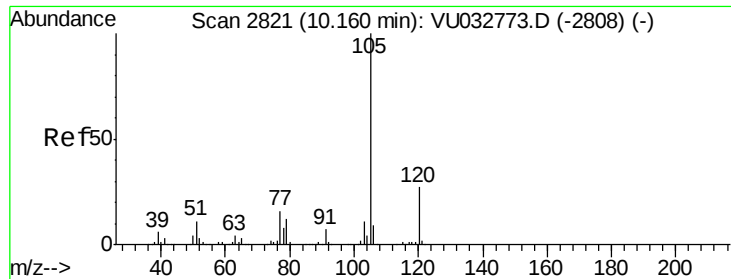
Tgt Ion:106 Resp: 12678
Ion Ratio Lower Upper
106 100
91 211.6 152.9 284.1



#55
Styrene
Concen: 4.506 ug/L
RT: 9.79 min Scan# 2705
Delta R.T. 0.00 min
Lab File: VU032771.D
Acq: 17 Jun 2019 10:38

Tgt Ion:104 Resp: 21125
Ion Ratio Lower Upper
104 100
78 48.3 32.1 59.5





#56

Isopropylbenzene

Concen: 4.593 ug/L

RT: 10.16 min Scan# 2821

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00531

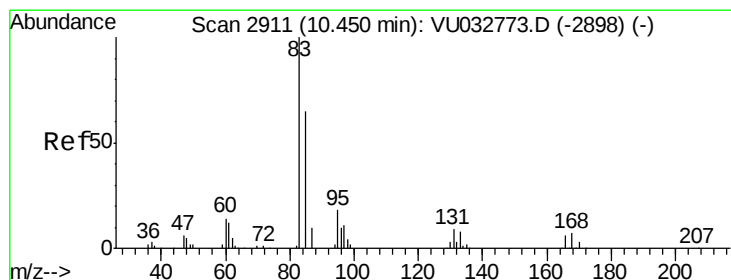
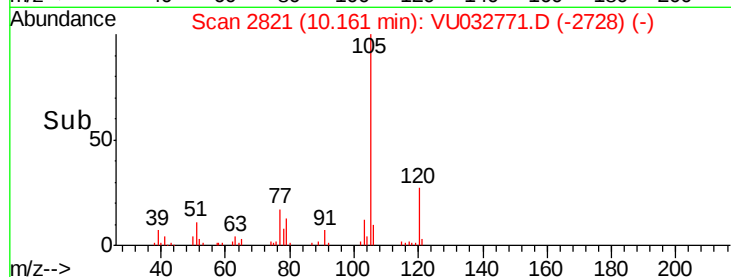
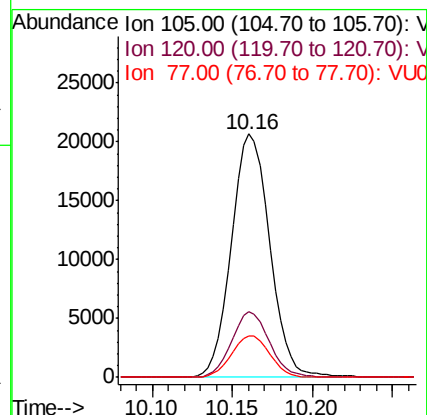
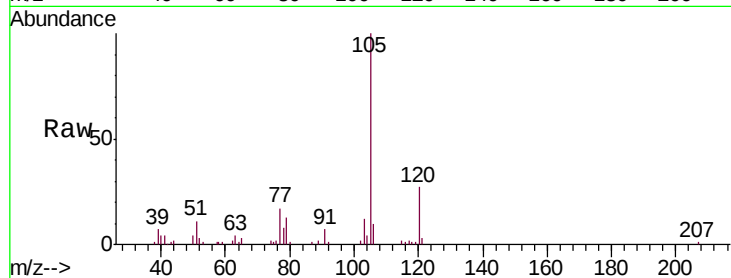
Tgt Ion: 105 Resp: 33853

Ion Ratio Lower Upper

105 100

120 26.2 21.4 32.0

77 17.0 13.0 19.4



#58

1,1,2,2-Tetrachloroethane

Concen: 5.273 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

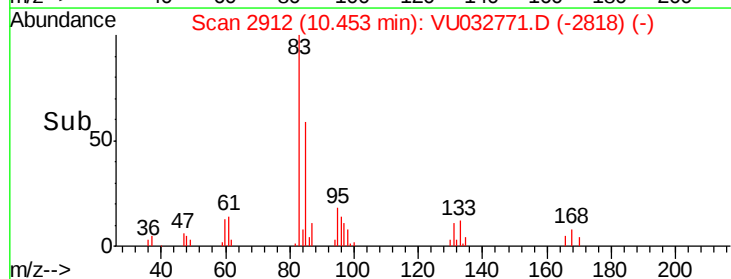
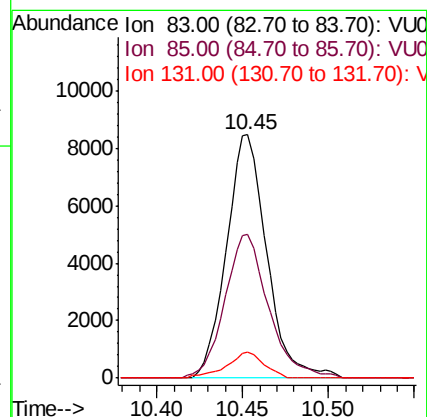
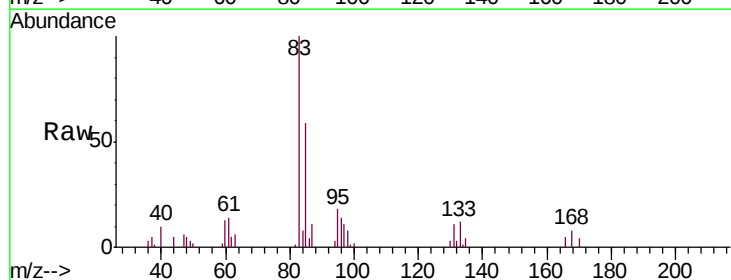
Tgt Ion: 83 Resp: 13893

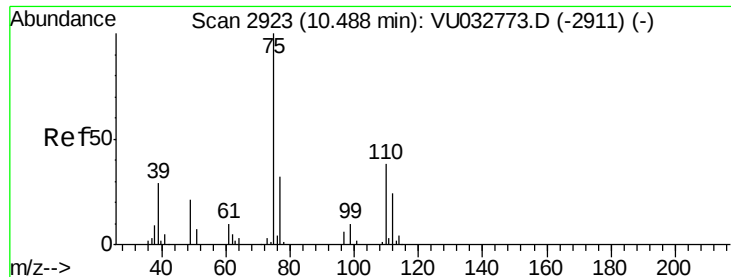
Ion Ratio Lower Upper

83 100

85 59.1 45.8 85.2

131 10.7 7.8 11.8

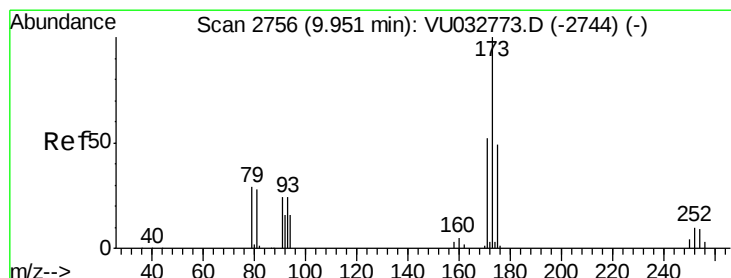
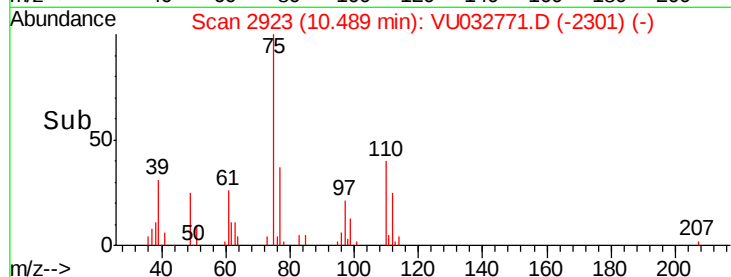
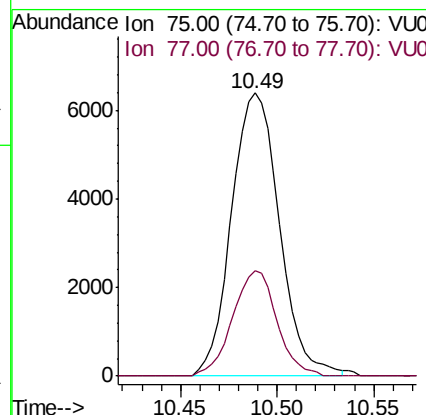
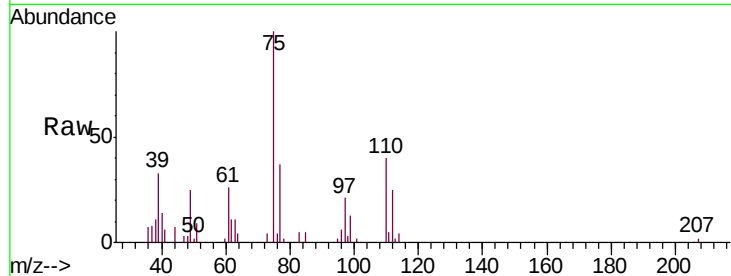




#59
 1,2,3-Trichloropropane
 Concen: 5.210 ug/L
 RT: 10.49 min Scan# 2923
 Delta R.T. 0.00 min
 Lab File: VU032771.D
 Acq: 17 Jun 2019 10:38

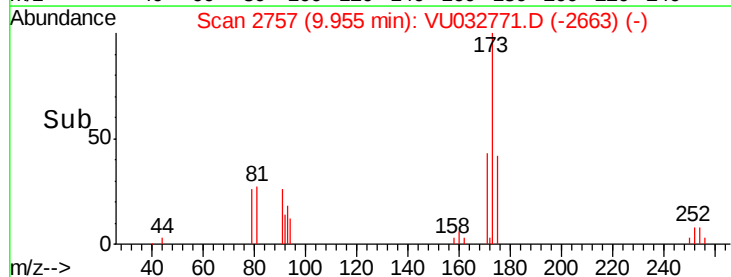
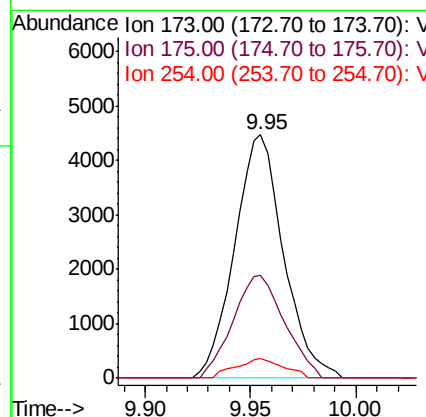
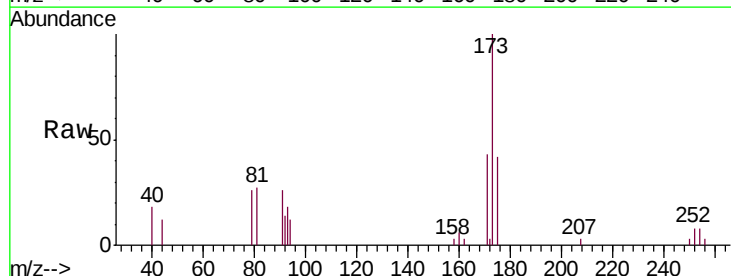
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00531

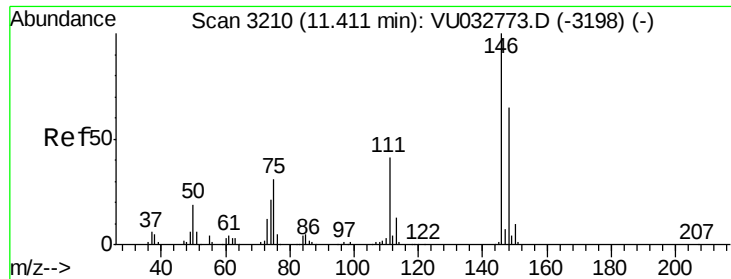
Tgt Ion: 75 Resp: 11023
 Ion Ratio Lower Upper
 75 100
 77 34.3 25.5 38.3



#61
 Bromoform
 Concen: 5.409 ug/L
 RT: 9.95 min Scan# 2757
 Delta R.T. 0.00 min
 Lab File: VU032771.D
 Acq: 17 Jun 2019 10:38

Tgt Ion: 173 Resp: 7186
 Ion Ratio Lower Upper
 173 100
 175 44.5 39.0 58.4
 254 7.8 7.5 11.3





#62

1,3-Dichlorobenzene

Concen: 5.445 ug/L

RT: 11.41 min Scan# 3211

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00531

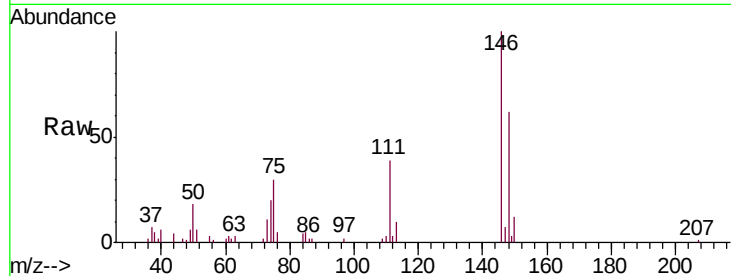
Tgt Ion:146 Resp: 18069

Ion Ratio Lower Upper

146 100

111 39.1 28.4 52.8

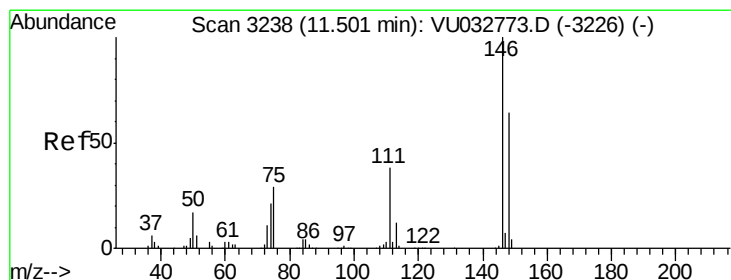
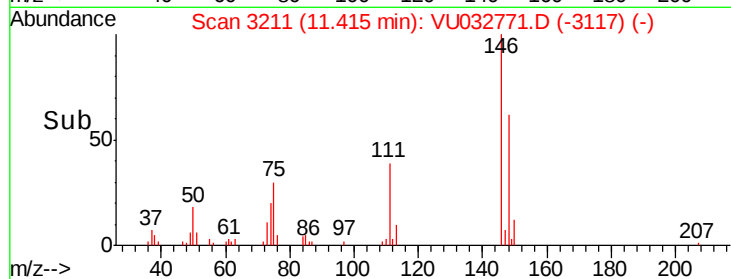
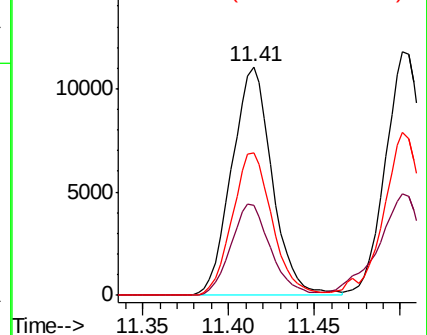
148 62.5 45.5 84.5



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: 5.573 ug/L

RT: 11.50 min Scan# 3238

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

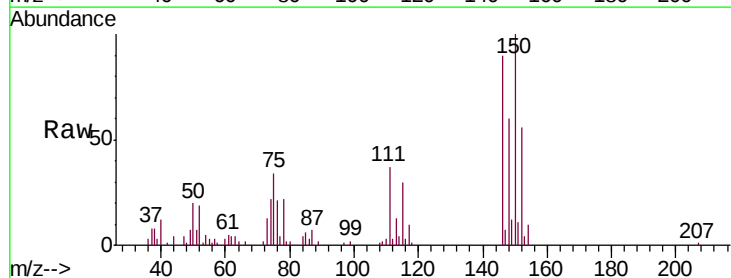
Tgt Ion:146 Resp: 19043

Ion Ratio Lower Upper

146 100

111 41.5 26.9 50.1

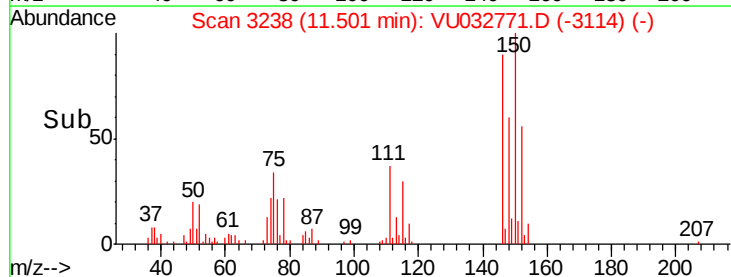
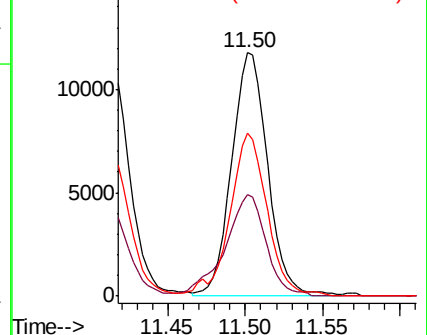
148 66.7 44.7 83.1

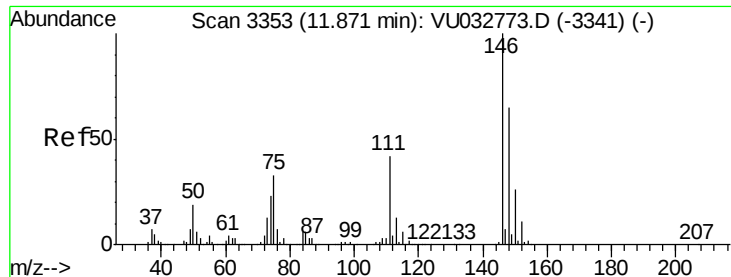


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 5.358 ug/L

RT: 11.88 min Scan# 3355

Delta R.T. 0.01 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00531

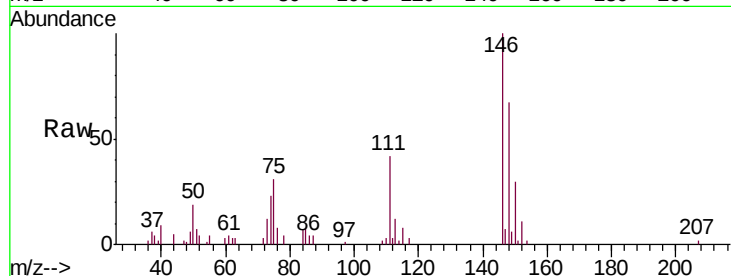
Tgt Ion:146 Resp: 18006

Ion Ratio Lower Upper

146 100

111 42.1 34.1 51.1

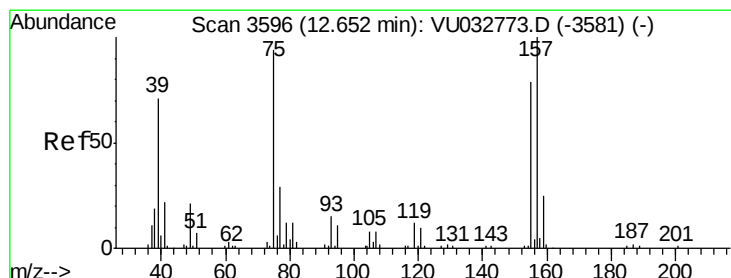
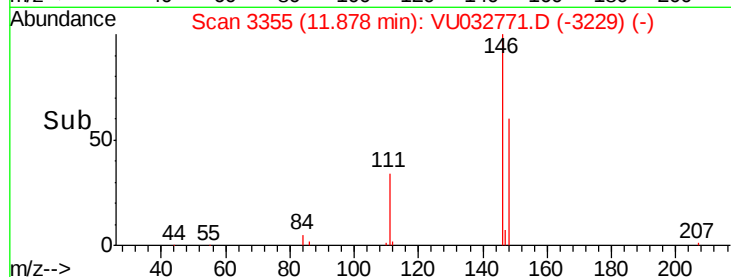
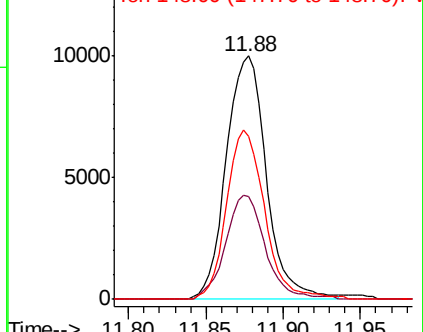
148 66.8 52.0 78.0



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



#66

1,2-Dibromo-3-chloropropane

Concen: 5.244 ug/L

RT: 12.65 min Scan# 3596

Delta R.T. 0.00 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

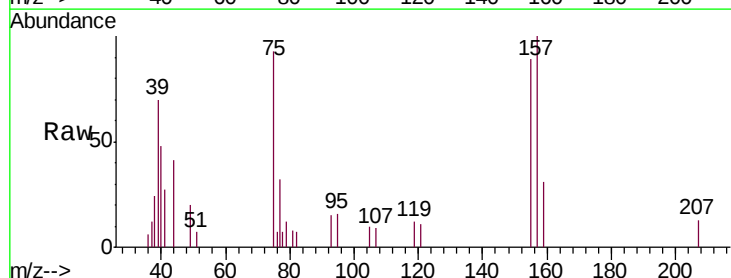
Tgt Ion: 75 Resp: 3012

Ion Ratio Lower Upper

75 100

155 95.3 67.4 101.2

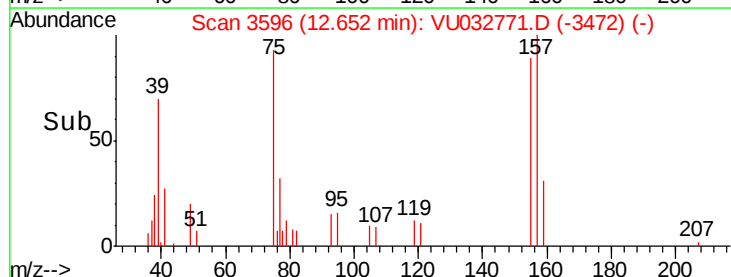
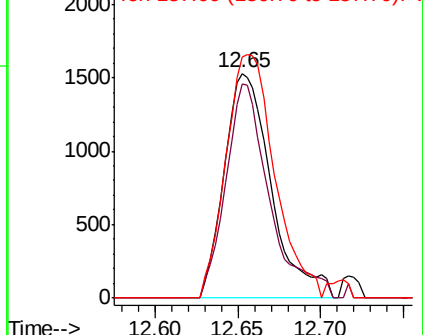
157 107.1 85.5 128.3

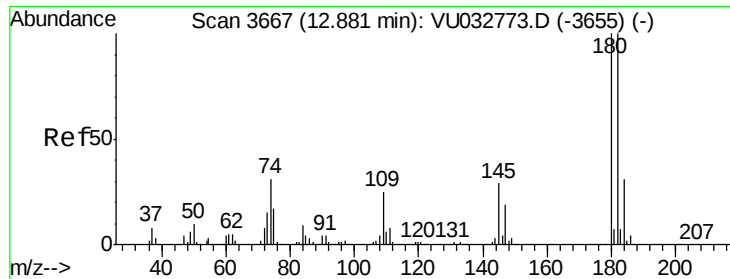


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

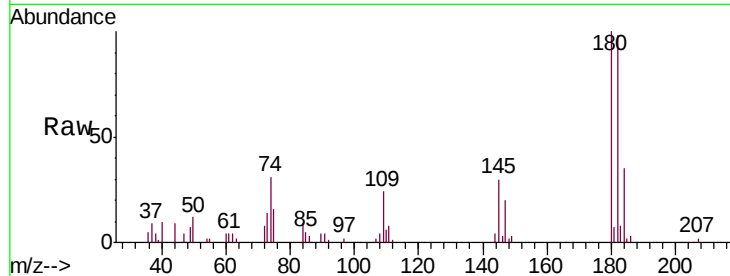




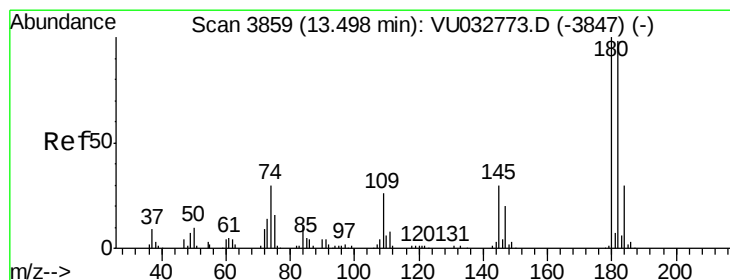
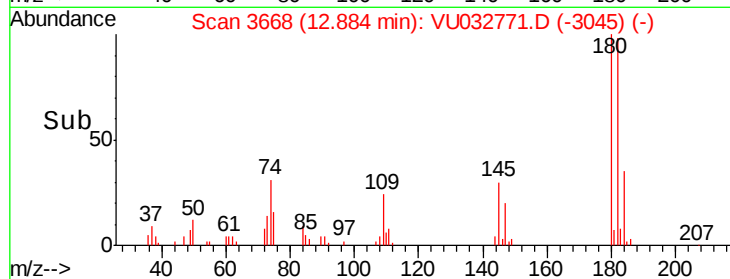
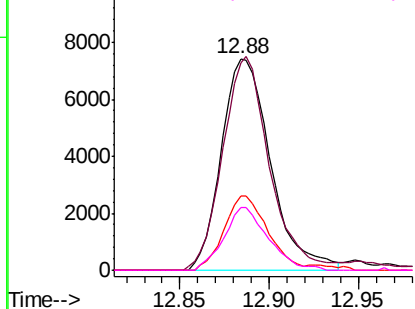
#67
 1,3,5-Trichlorobenzene
 Concen: 5.489 ug/L
 RT: 12.88 min Scan# 3668
 Delta R.T. 0.00 min
 Lab File: VU032771.D
 Acq: 17 Jun 2019 10:38

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00531

Tgt Ion:180 Resp: 14249
 Ion Ratio Lower Upper
 180 100
 182 95.6 78.3 117.5
 184 30.9 24.8 37.2
 145 26.4 23.4 35.2

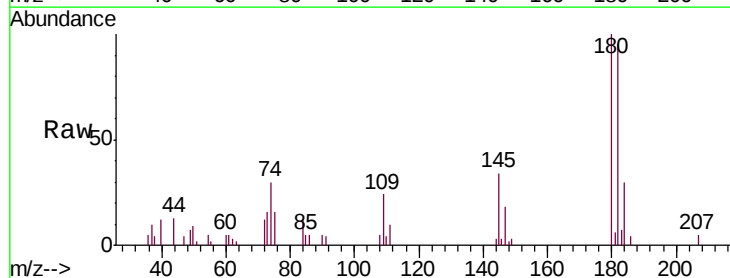


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

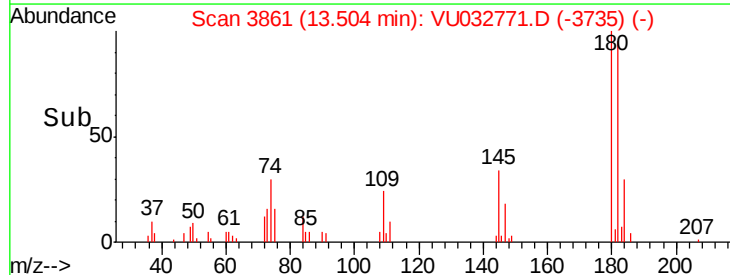
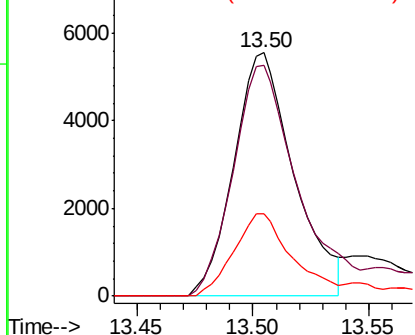


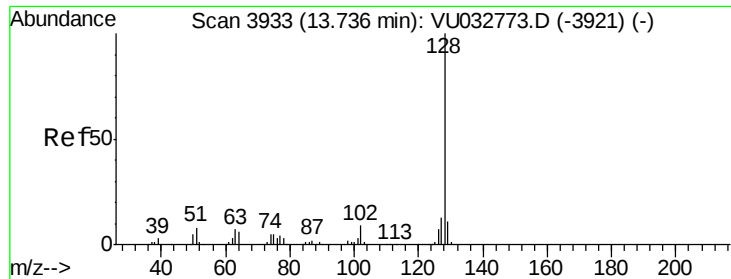
#68
 1,2,4-trichlorobenzene
 Concen: 4.544 ug/L
 RT: 13.50 min Scan# 3861
 Delta R.T. 0.01 min
 Lab File: VU032771.D
 Acq: 17 Jun 2019 10:38

Tgt Ion:180 Resp: 9983
 Ion Ratio Lower Upper
 180 100
 182 102.1 76.2 114.4
 145 32.7 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: 4.372 ug/L

RT: 13.75 min Scan# 3936

Delta R.T. 0.01 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

Instrument :

MSVOA_U

ClientSampleId :

VSTD00531

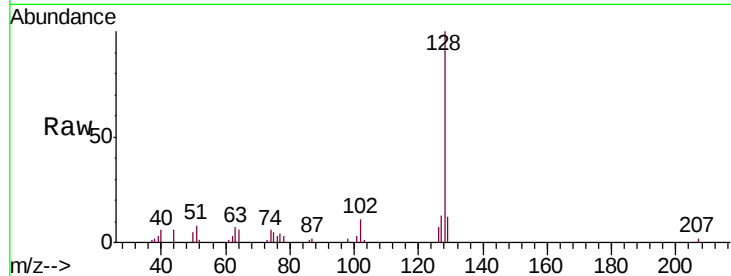
Tgt Ion:128 Resp: 30134

Ion Ratio Lower Upper

128 100

127 9.9 10.3 15.5#

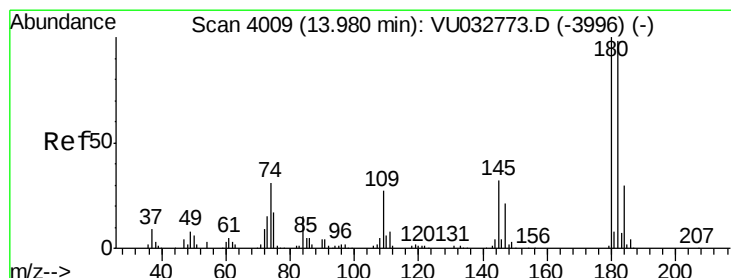
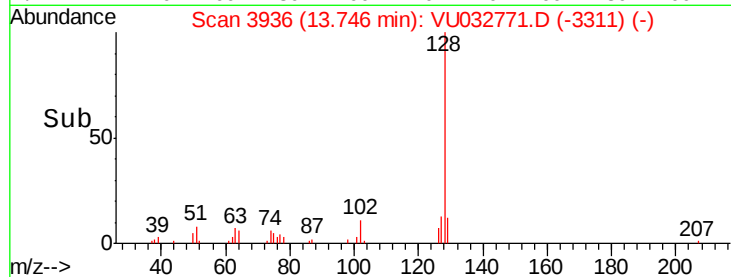
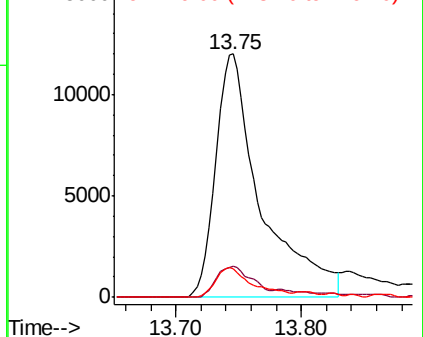
129 10.0 8.6 13.0



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: 5.737 ug/L

RT: 13.99 min Scan# 4011

Delta R.T. 0.01 min

Lab File: VU032771.D

Acq: 17 Jun 2019 10:38

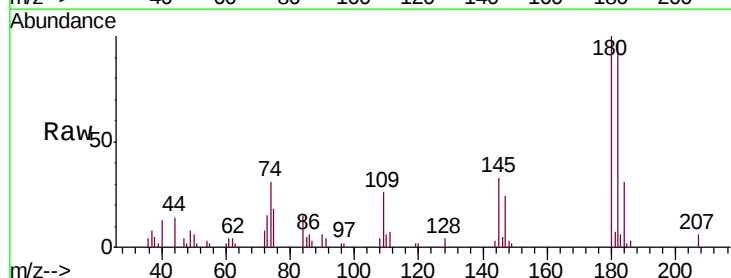
Tgt Ion:180 Resp: 13206

Ion Ratio Lower Upper

180 100

182 92.3 77.0 115.6

145 29.1 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

