

Data File : VU033946.D
Acq On : 26 Aug 2019 10:41
Operator : JC/SP
Sample : VSTD0.506
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.506

Quant Time: Aug 27 01:22:28 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR082619WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Tue Aug 27 01:19:55 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	246354	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	250000	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	117160	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	11087	0.52	ug/L	0.00
7) Chloroethane-d5	1.67	69	9292	0.50	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	21657	0.52	ug/L	0.00
20) 2-Butanone-d5	4.18	46	23890	5.41	ug/L	0.01
24) Chloroform-d	4.62	84	19184	0.54	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	10699	0.56	ug/L	0.00
32) Benzene-d6	5.32	84	34692	0.54	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	10975	0.52	ug/L	0.00
41) Toluene-d8	7.55	98	26880	0.46	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	3802	0.48	ug/L	0.00
46) 2-Hexanone-d5	8.31	63	11567	3.90	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	8909	0.50	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	11413	0.56	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	15280	0.643 ug/L	100
3) Chloromethane	1.32	50	14966	0.646 ug/L	98
5) Vinyl chloride	1.39	62	15478	0.603 ug/L	94
6) Bromomethane	1.62	94	7191	0.456 ug/L	91
8) Chloroethane	1.69	64	11402	0.752 ug/L	97
9) Trichlorofluoromethane	1.87	101	17266	0.544 ug/L	96
10) 1,1,2-Trichloro-1,2,2-trif	2.28	101	10062	0.549 ug/L	98
12) 1,1-Dichloroethene	2.27	96	9875	0.567 ug/L	92
13) Acetone	2.32	43	22184	6.529 ug/L	98
14) Carbon disulfide	2.46	76	35735	0.592 ug/L	100
15) Methyl Acetate	2.60	43	5940	0.687 ug/L	100
16) Methylene chloride	2.68	84	13593	0.665 ug/L	94
17) Methyl tert-butyl Ether	2.98	73	24701	0.556 ug/L	98
18) trans-1,2-Dichloroethene	2.96	96	11151	0.582 ug/L	93
19) 1,1-Dichloroethane	3.42	63	20642	0.693 ug/L	96
21) 2-Butanone	4.27	43	26414	6.628 ug/L	97
22) cis-1,2-Dichloroethene	4.20	96	10233	0.642 ug/L	98
23) Bromochloromethane	4.53	128	4828	0.630 ug/L	81
25) Chloroform	4.65	83	24837	0.754 ug/L	99
27) 1,2-Dichloroethane	5.39	62	12532	0.655 ug/L	100
29) 1,1,1-Trichloroethane	4.89	97	16004	0.655 ug/L	97
30) Cyclohexane	4.97	56	14295	0.660 ug/L	98
31) Carbon tetrachloride	5.11	117	14241	0.650 ug/L	95
33) Benzene	5.37	78	38027	0.632 ug/L	100
34) Trichloroethene	6.16	95	11025	0.696 ug/L	90
35) Methylcyclohexane	6.39	83	13882	0.612 ug/L	98
37) 1,2-Dichloropropane	6.41	63	10953	0.687 ug/L	# 97
38) Bromodichloromethane	6.74	83	13765	0.677 ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	12030	0.571 ug/L	100
40) 4-Methyl-2-pentanone	7.45	43	55202	6.109 ug/L	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	35799	0.587	ug/L	95
44) trans-1,3-Dichloropropene	7.87	75	9944	0.562	ug/L	96
45) 1,1,2-Trichloroethane	8.05	97	6980	0.621	ug/L	94
47) Tetrachloroethene	8.21	164	7987	0.618	ug/L	96
48) 2-Hexanone	8.35	43	34809	5.313	ug/L	98
49) Dibromochloromethane	8.46	129	8531	0.614	ug/L	97
50) 1,2-Dibromoethane	8.57	107	6872	0.637	ug/L #	99
51) Chlorobenzene	9.10	112	25444	0.633	ug/L	97
52) Ethylbenzene	9.23	91	36079	0.584	ug/L	97
53) m,p-Xylene	9.36	106	13068	0.561	ug/L	98
54) o-Xylene	9.76	106	11583	0.518	ug/L	92
55) Styrene	9.78	104	18737	0.482	ug/L	98
56) Isopropylbenzene	10.15	105	30889	0.536	ug/L	95
58) 1,1,2,2-Tetrachloroethane	10.44	83	9492	0.661	ug/L	94
59) 1,2,3-Trichloropropane	10.48	75	6667	0.637	ug/L	93
61) Bromoform	9.94	173	4859	0.696	ug/L #	95
62) 1,3-Dichlorobenzene	11.40	146	18514	0.657	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	20902	0.720	ug/L	96
65) 1,2-Dichlorobenzene	11.86	146	18019	0.663	ug/L	97
66) 1,2-Dibromo-3-chloropropan	12.64	75	1436	0.734	ug/L #	77
67) 1,3,5-Trichlorobenzene	12.87	180	14396	0.671	ug/L	98
68) 1,2,4-trichlorobenzene	13.49	180	8877	0.563	ug/L	93
69) Naphthalene	13.74	128	12194	0.520	ug/L	97
70) 1,2,3-Trichlorobenzene	13.97	180	8844	0.587	ug/L	91

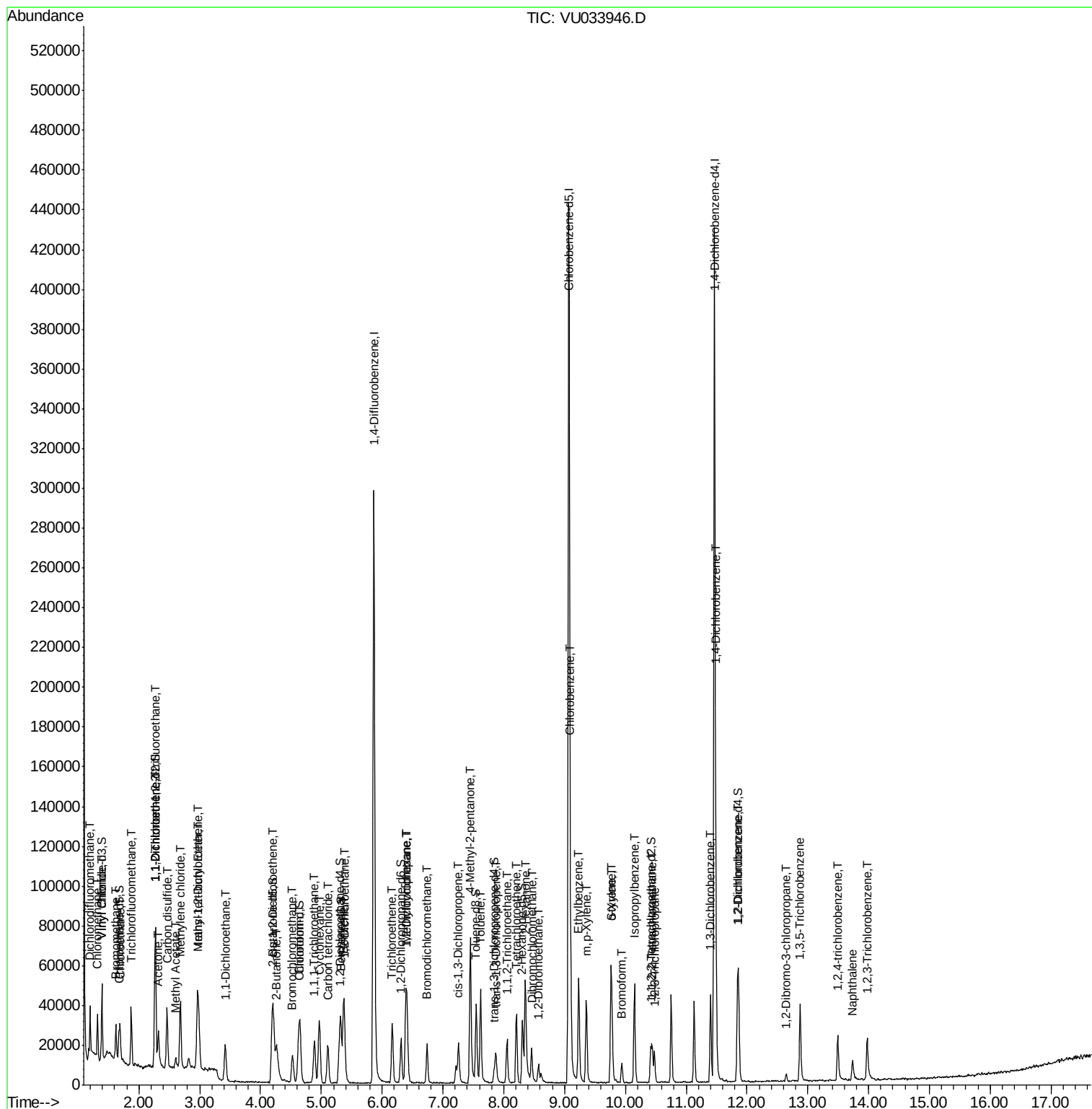
(#) = qualifier out of range (m) = manual integration (+) = signals summed

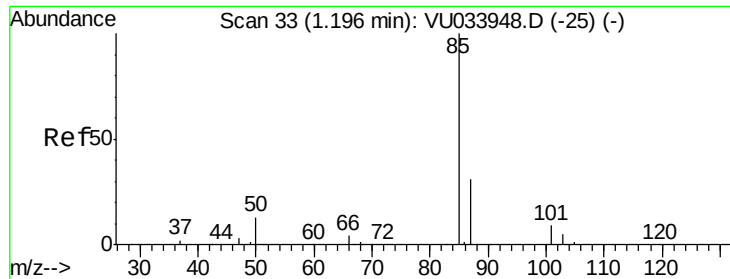
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#2

Dichlorodifluoromethane

Concen: 0.643 ug/L

RT: 1.20 min Scan# 33

Delta R.T. 0.00 min

Lab File: VU033946.D

Acq: 26 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

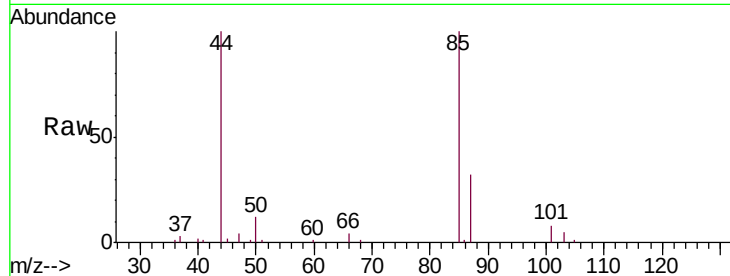
VSTD0.506

Tgt Ion: 85 Resp: 15280

Ion Ratio Lower Upper

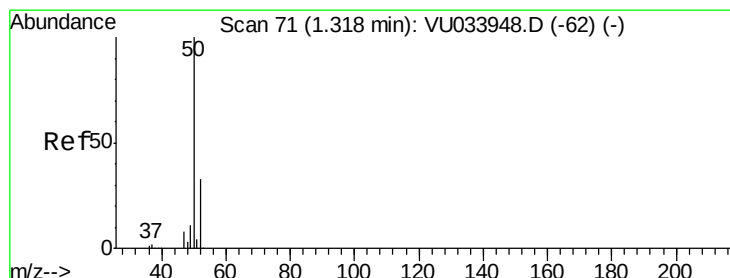
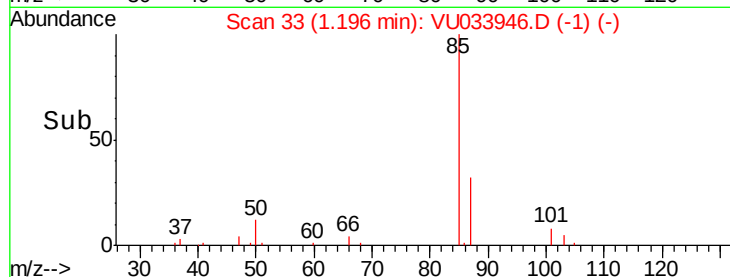
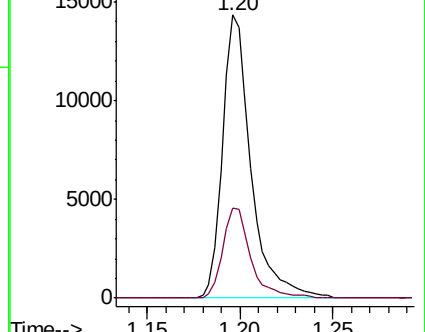
85 100

87 31.6 25.4 38.0



Abundance Ion 85.00 (84.70 to 85.70): VU033946.D (-25) (-)

Ion 87.00 (86.70 to 87.70): VU033946.D (-25) (-)



#3

Chloromethane

Concen: 0.646 ug/L

RT: 1.32 min Scan# 71

Delta R.T. 0.00 min

Lab File: VU033946.D

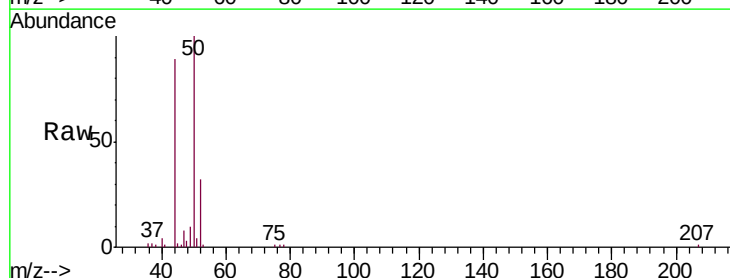
Acq: 26 Aug 2019 10:41

Tgt Ion: 50 Resp: 14966

Ion Ratio Lower Upper

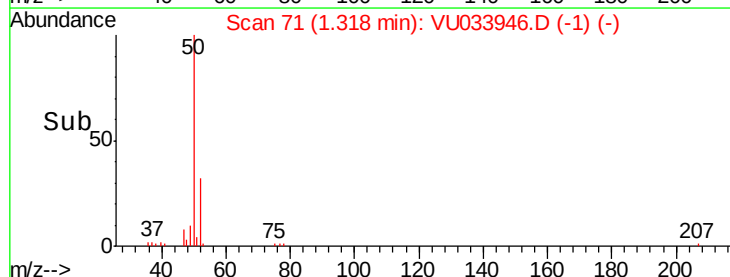
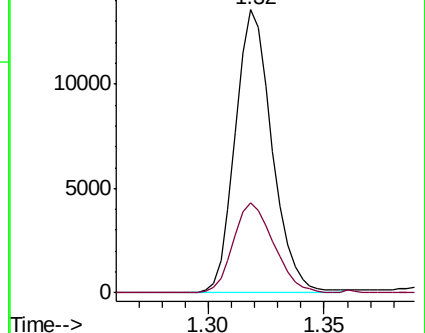
50 100

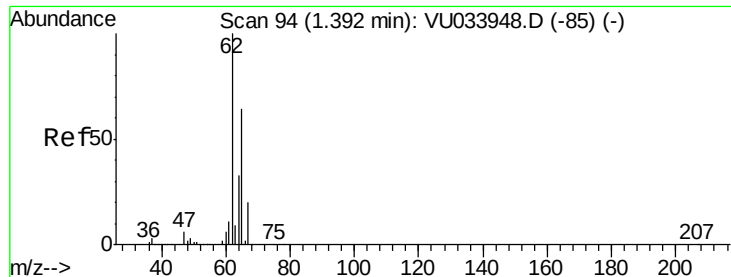
52 31.9 23.0 42.8



Abundance Ion 50.05 (49.75 to 50.75): VU033946.D (-62) (-)

Ion 52.05 (51.75 to 52.75): VU033946.D (-62) (-)





#5

Vinyl chloride

Concen: 0.603 ug/L

RT: 1.39 min Scan# 94

Delta R.T. 0.00 min

Lab File: VU033946.D

Acq: 26 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

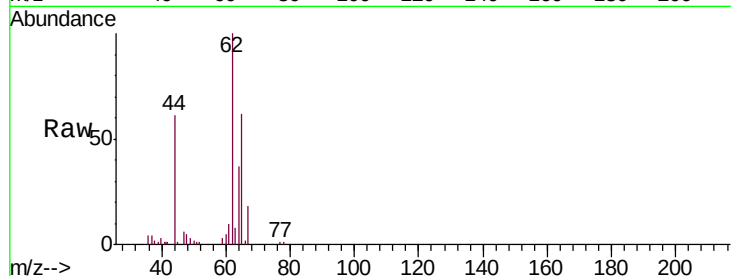
VSTD0.506

Tgt Ion: 62 Resp: 15478

Ion Ratio Lower Upper

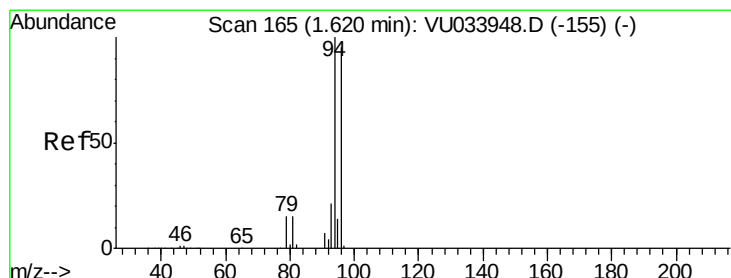
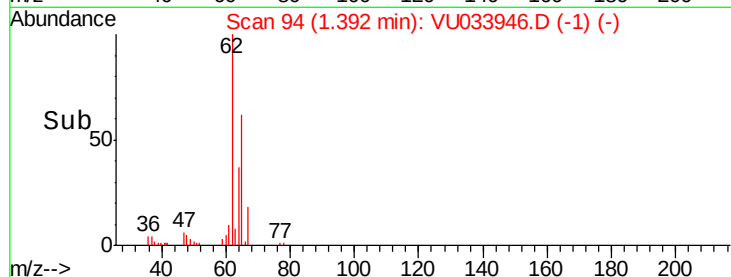
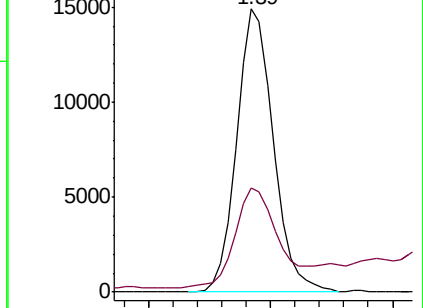
62 100

64 37.0 23.4 43.4



Abundance Ion 62.00 (61.70 to 62.70): VU033946.D (-85) (-)

Ion 64.10 (63.80 to 64.80): VU033946.D (-85) (-)



#6

Bromomethane

Concen: 0.456 ug/L

RT: 1.62 min Scan# 165

Delta R.T. 0.00 min

Lab File: VU033946.D

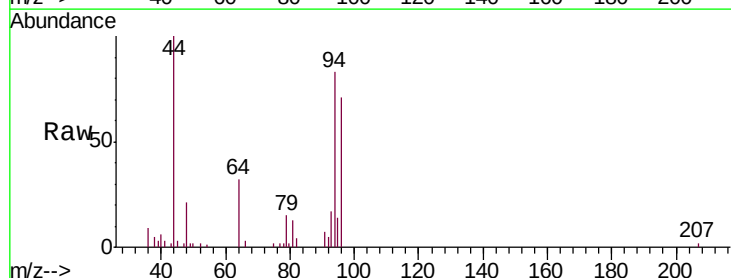
Acq: 26 Aug 2019 10:41

Tgt Ion: 94 Resp: 7191

Ion Ratio Lower Upper

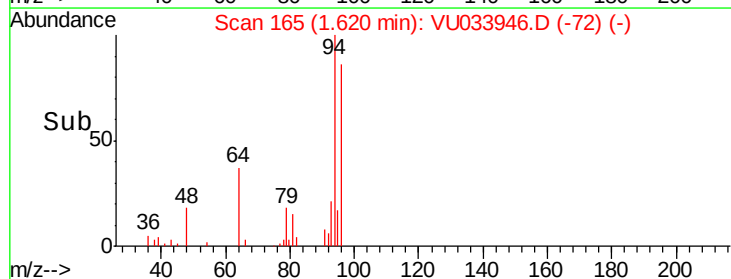
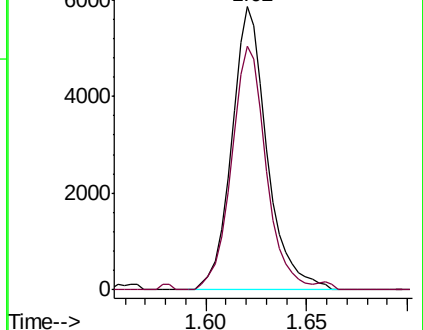
94 100

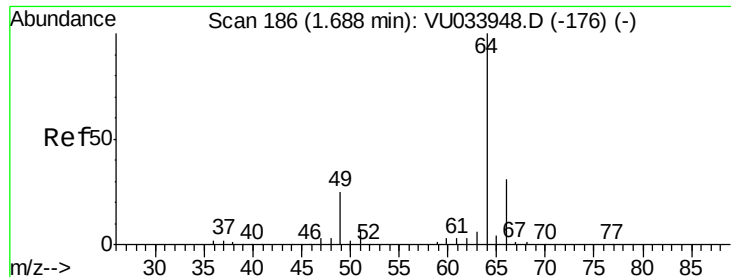
96 86.2 66.1 122.8



Abundance Ion 94.00 (93.70 to 94.70): VU033946.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU033946.D (-155) (-)





#8

Chloroethane

Concen: 0.752 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033946.D

Acq: 26 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

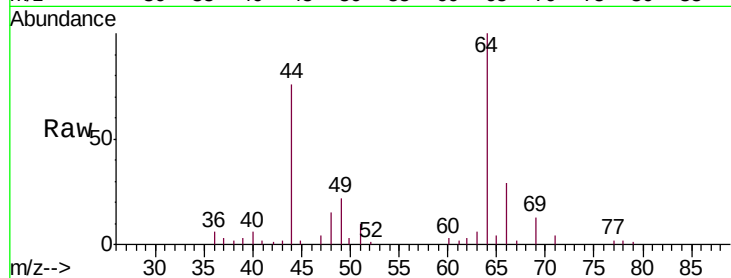
VSTD0.506

Tgt Ion: 64 Resp: 11402

Ion Ratio Lower Upper

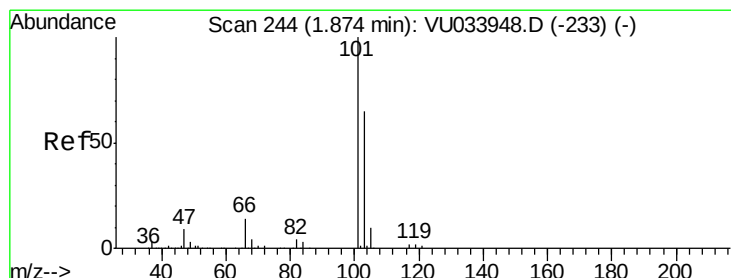
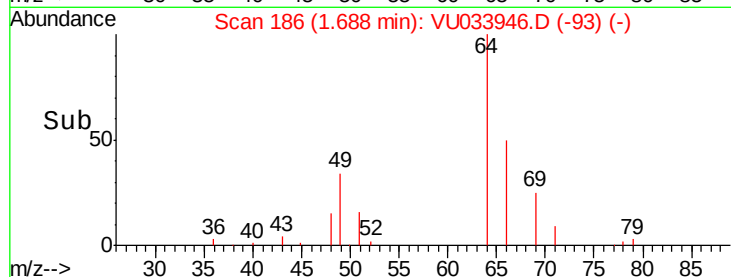
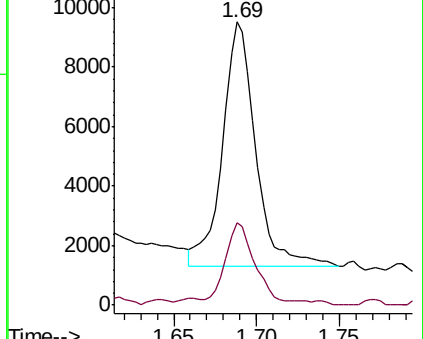
64 100

66 29.2 21.4 39.8



Abundance Ion 64.10 (63.80 to 64.80): VU033946.D (-176) (-)

Ion 66.05 (65.75 to 66.75): VU033946.D (-176) (-)



#9

Trichlorofluoromethane

Concen: 0.544 ug/L

RT: 1.87 min Scan# 244

Delta R.T. 0.00 min

Lab File: VU033946.D

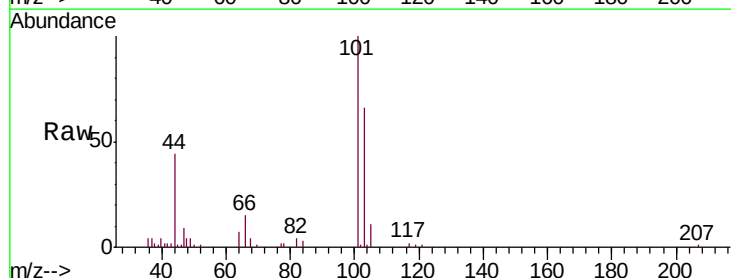
Acq: 26 Aug 2019 10:41

Tgt Ion: 101 Resp: 17266

Ion Ratio Lower Upper

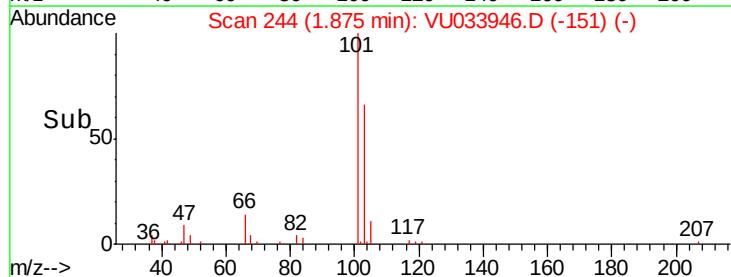
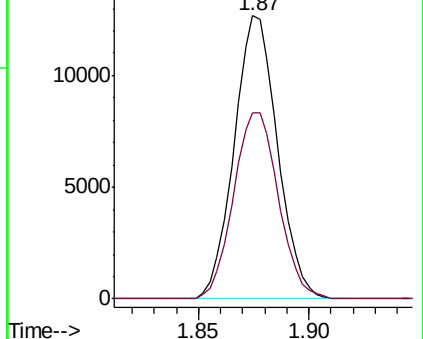
101 100

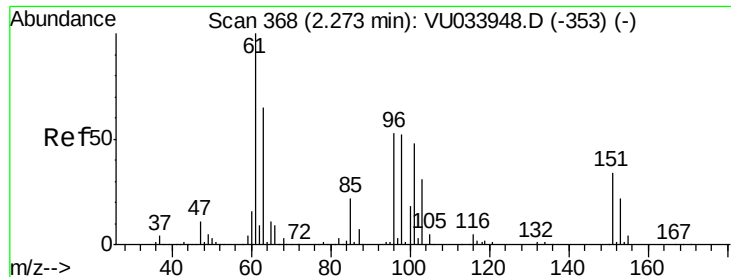
103 68.4 52.1 78.1



Abundance Ion 101.00 (100.70 to 101.70): VU033946.D (-233) (-)

Ion 103.00 (102.70 to 103.70): VU033946.D (-233) (-)





#10

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

Concen: 0.549 ug/L

RT: 2.28 min Scan# 369

Delta R.T. 0.00 min

Lab File: VU033946.D

Acq: 26 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.506

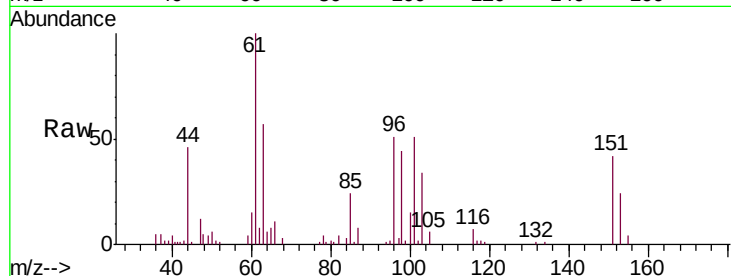
Tgt Ion: 101 Resp: 10062

Ion Ratio Lower Upper

101 100

85 44.7 36.2 54.2

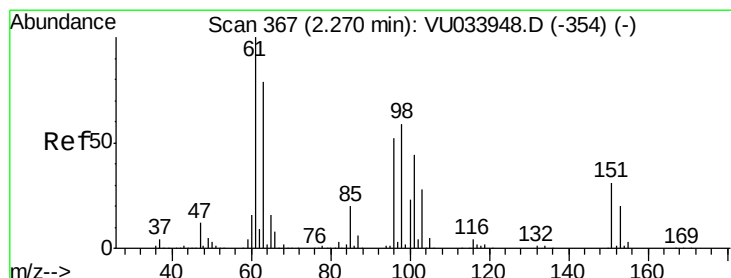
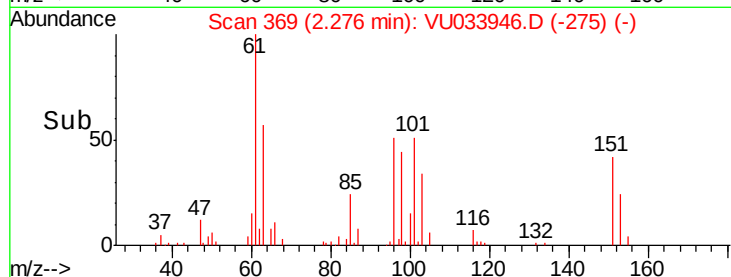
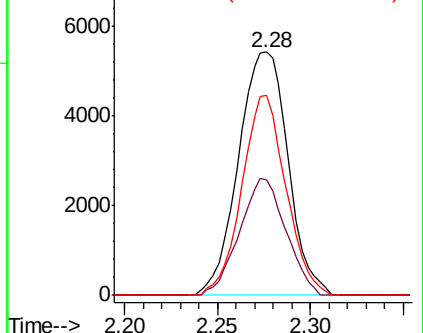
151 72.9 56.8 85.2



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: 0.567 ug/L

RT: 2.27 min Scan# 368

Delta R.T. 0.00 min

Lab File: VU033946.D

Acq: 26 Aug 2019 10:41

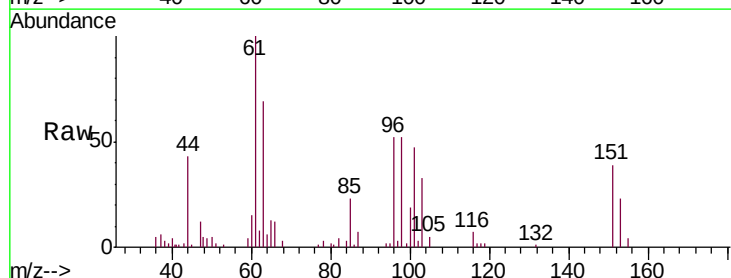
Tgt Ion: 96 Resp: 9875

Ion Ratio Lower Upper

96 100

61 192.2 135.6 251.8

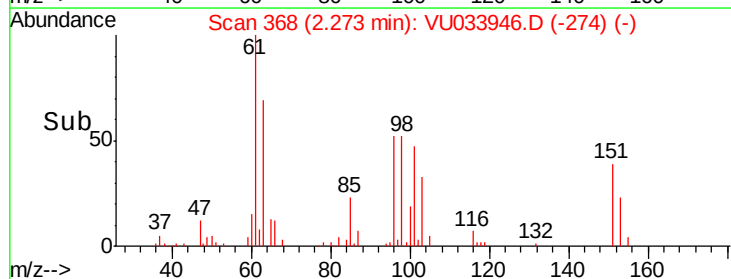
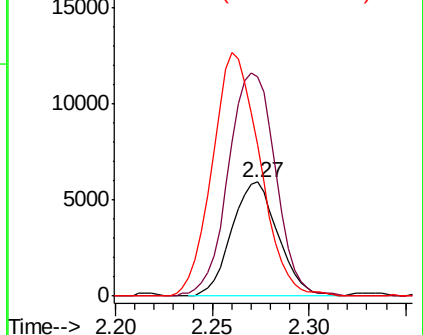
63 132.8 108.0 200.6

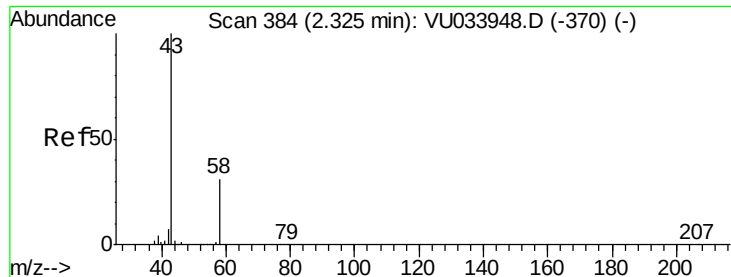


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 6.529 ug/L

RT: 2.32 min Scan# 382

Delta R.T. -0.01 min

Lab File: VU033946.D

Acq: 26 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

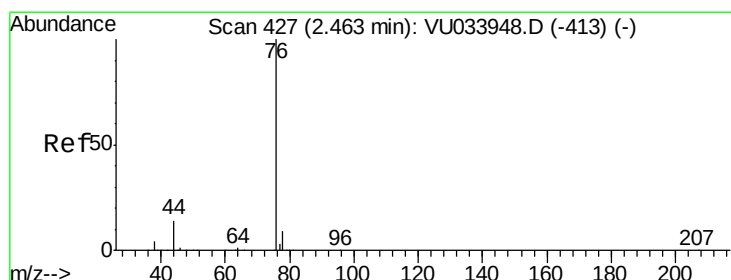
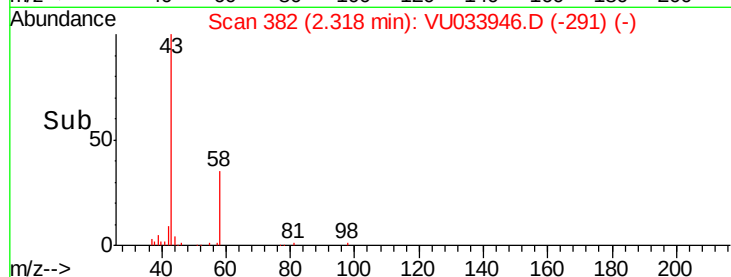
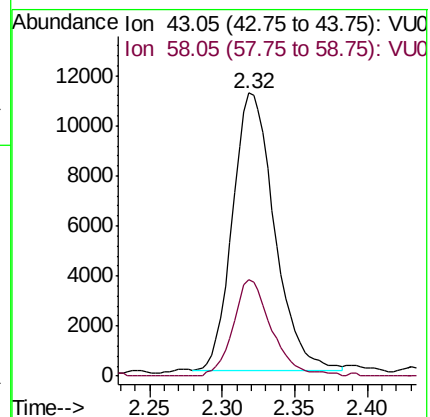
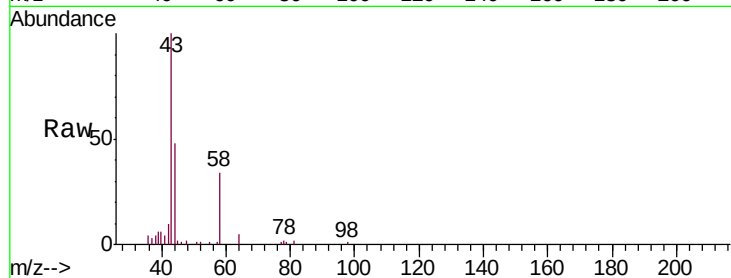
VSTD0.506

Tgt Ion: 43 Resp: 22184

Ion Ratio Lower Upper

43 100

58 32.2 0.0 62.6



#14

Carbon disulfide

Concen: 0.592 ug/L

RT: 2.46 min Scan# 427

Delta R.T. 0.00 min

Lab File: VU033946.D

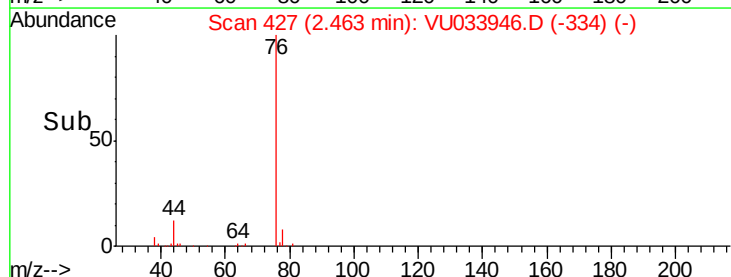
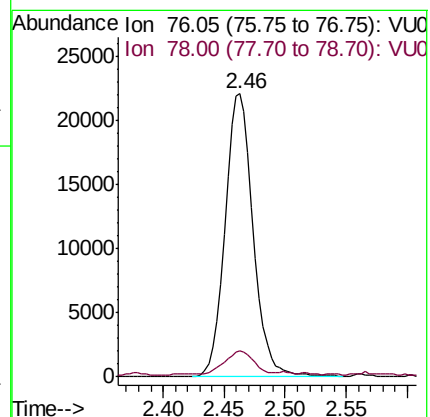
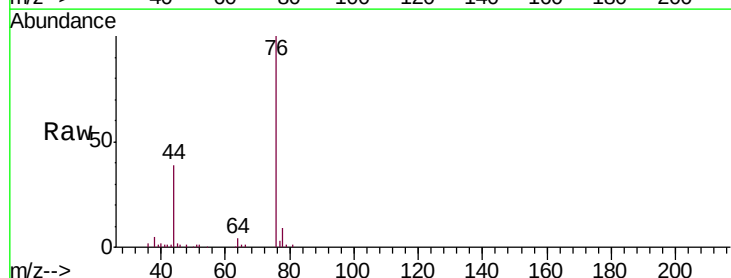
Acq: 26 Aug 2019 10:41

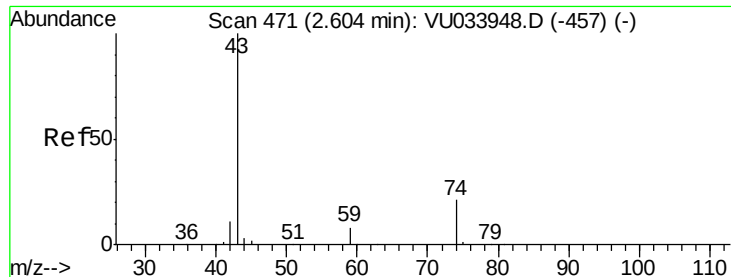
Tgt Ion: 76 Resp: 35735

Ion Ratio Lower Upper

76 100

78 9.1 7.3 10.9

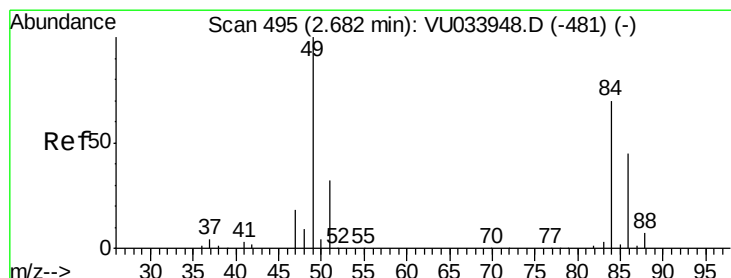
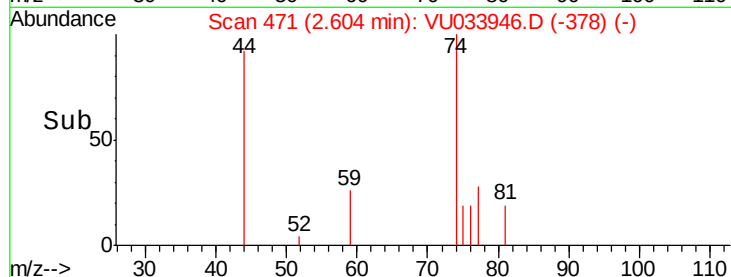
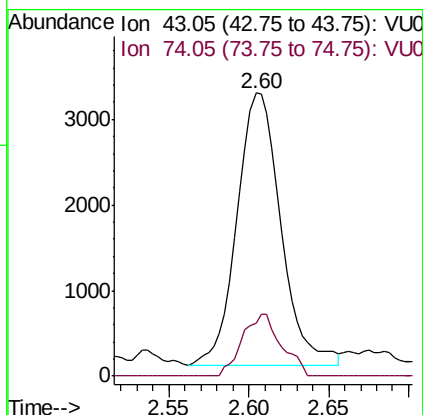
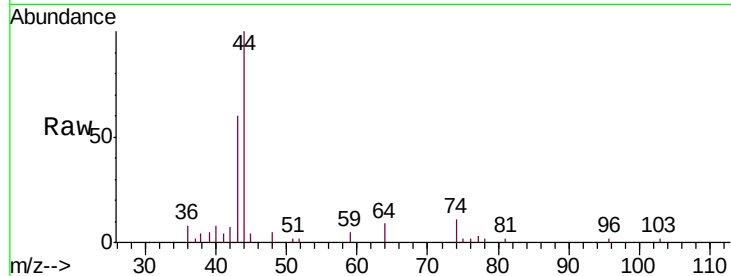




#15
Methyl Acetate
Concen: 0.687 ug/L
RT: 2.60 min Scan# 471
Delta R.T. 0.00 min
Lab File: VU033946.D
Acq: 26 Aug 2019 10:41

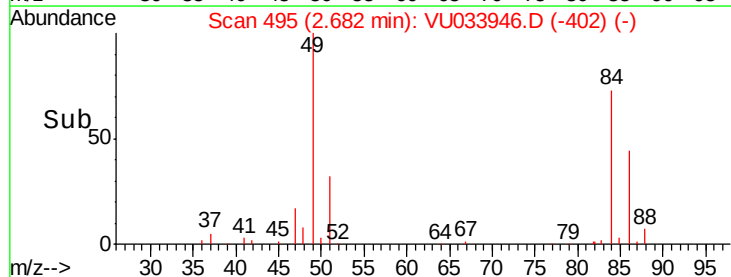
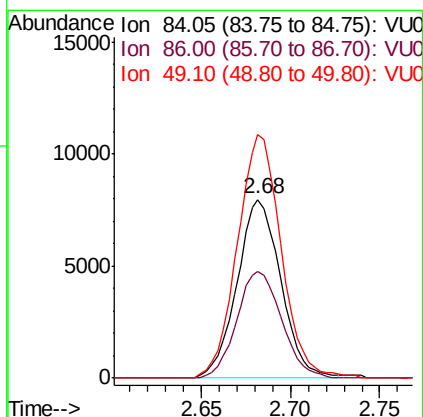
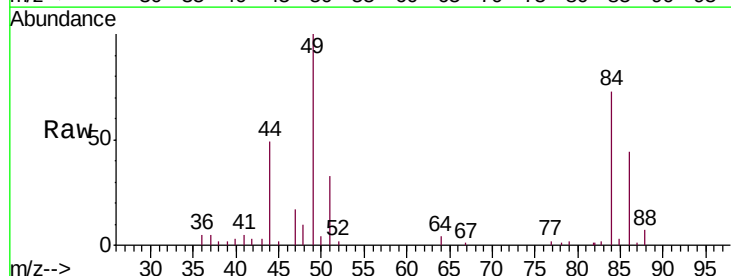
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.506

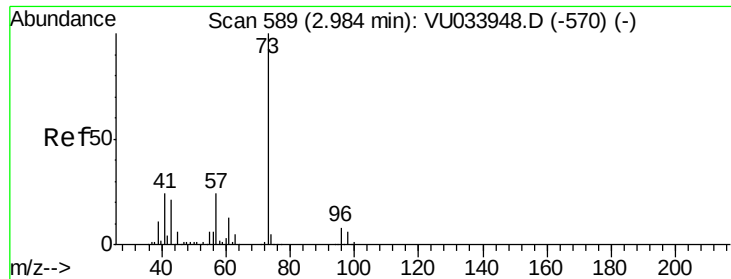
Tgt Ion: 43 Resp: 5940
Ion Ratio Lower Upper
43 100
74 20.3 16.3 24.5



#16
Methylene chloride
Concen: 0.665 ug/L
RT: 2.68 min Scan# 495
Delta R.T. 0.00 min
Lab File: VU033946.D
Acq: 26 Aug 2019 10:41

Tgt Ion: 84 Resp: 13593
Ion Ratio Lower Upper
84 100
86 59.4 44.7 83.1
49 136.2 100.1 185.9

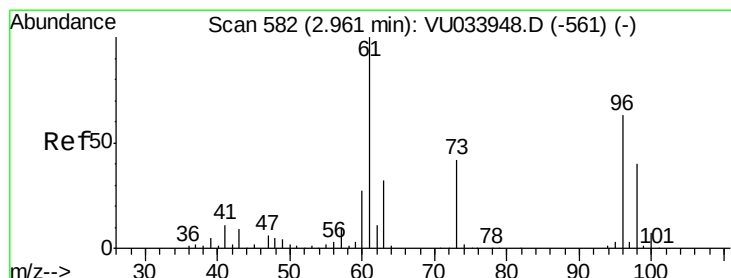
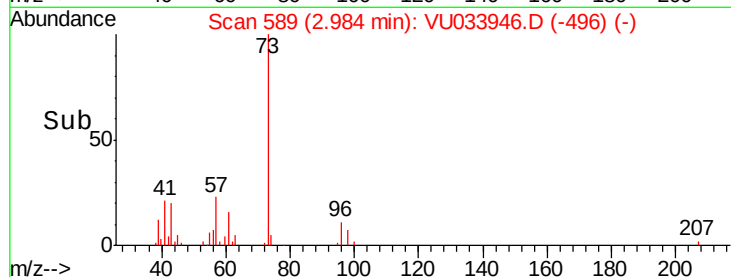
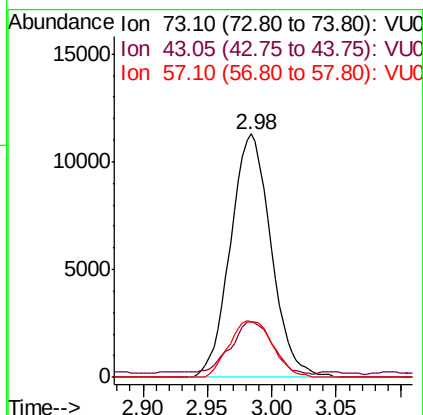
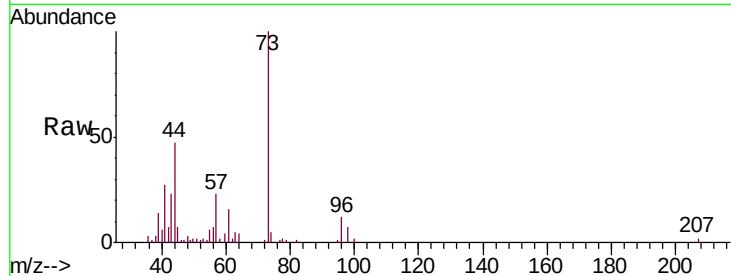




#17
Methyl tert-butyl Ether
Concen: 0.556 ug/L
RT: 2.98 min Scan# 589
Delta R.T. 0.00 min
Lab File: VU033946.D
Acq: 26 Aug 2019 10:41

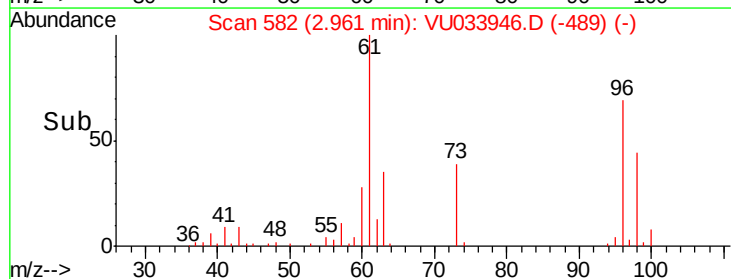
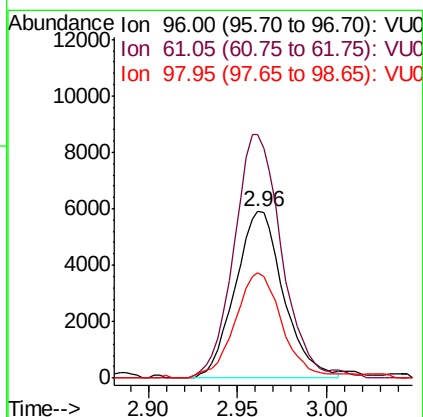
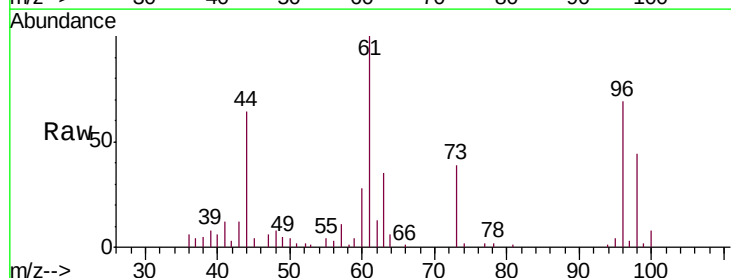
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.506

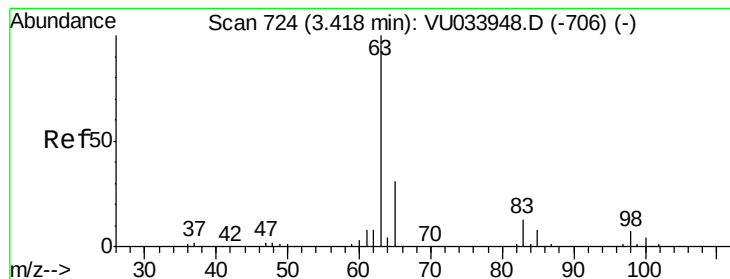
Tgt Ion: 73 Resp: 24701
Ion Ratio Lower Upper
73 100
43 21.9 16.6 24.8
57 25.0 19.1 28.7



#18
trans-1,2-Dichloroethene
Concen: 0.582 ug/L
RT: 2.96 min Scan# 582
Delta R.T. 0.00 min
Lab File: VU033946.D
Acq: 26 Aug 2019 10:41

Tgt Ion: 96 Resp: 11151
Ion Ratio Lower Upper
96 100
61 146.0 110.3 204.9
98 63.5 44.2 82.0





#19

1,1-Dichloroethane

Concen: 0.693 ug/L

RT: 3.42 min Scan# 725

Delta R.T. 0.00 min

Lab File: VU033946.D

Acq: 26 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.506

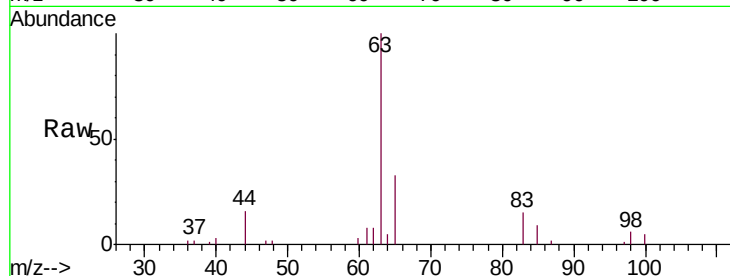
Tgt Ion: 63 Resp: 20642

Ion Ratio Lower Upper

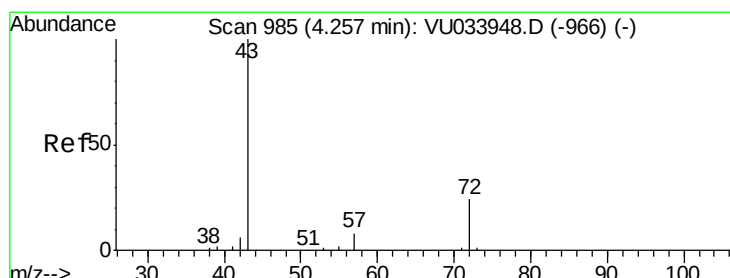
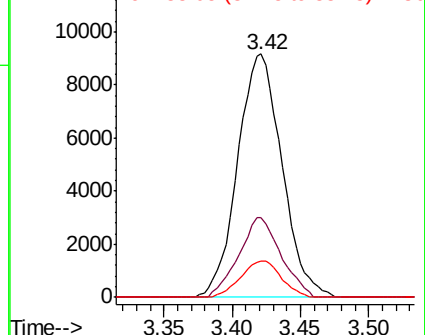
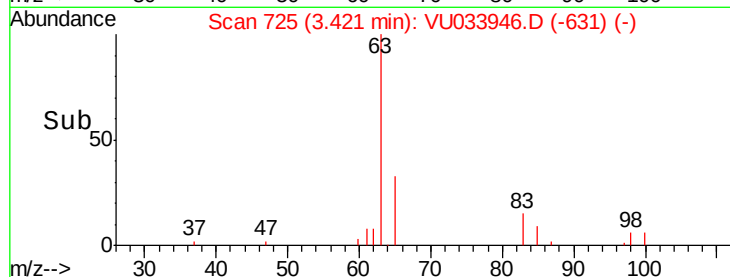
63 100

65 32.7 21.7 40.3

83 14.7 8.9 16.5



Abundance Ion 63.10 (62.80 to 63.80): VU033946.D (-631) (-)



#21

2-Butanone

Concen: 6.628 ug/L

RT: 4.27 min Scan# 989

Delta R.T. 0.01 min

Lab File: VU033946.D

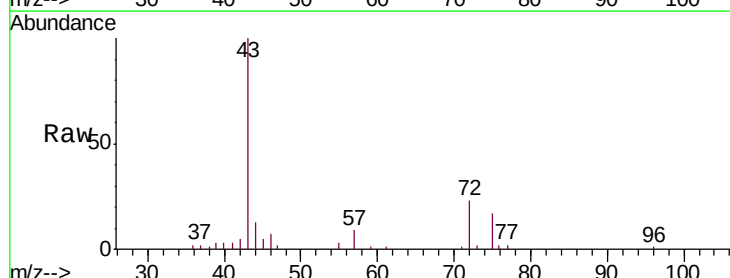
Acq: 26 Aug 2019 10:41

Tgt Ion: 43 Resp: 26414

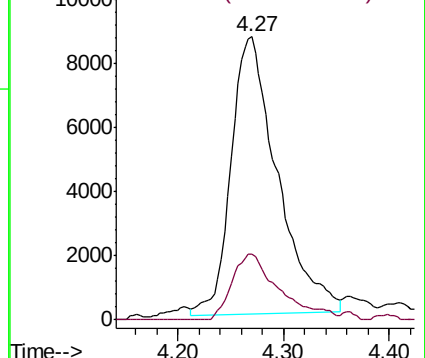
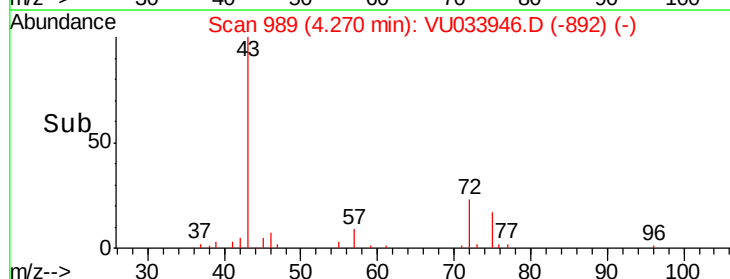
Ion Ratio Lower Upper

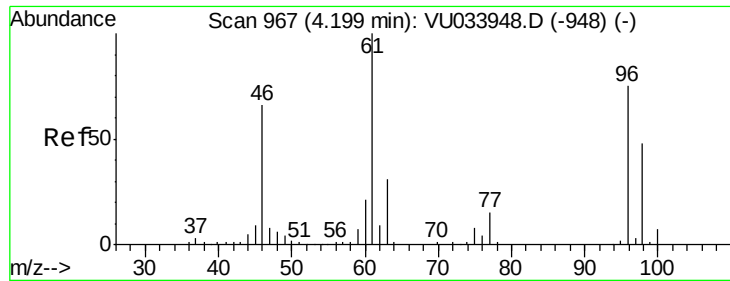
43 100

72 23.1 12.3 36.8



Abundance Ion 43.05 (42.75 to 43.75): VU033946.D (-892) (-)



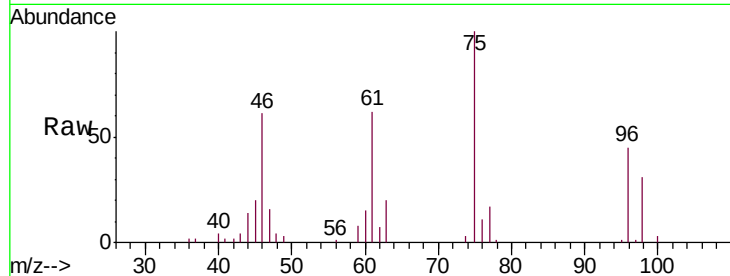


#22

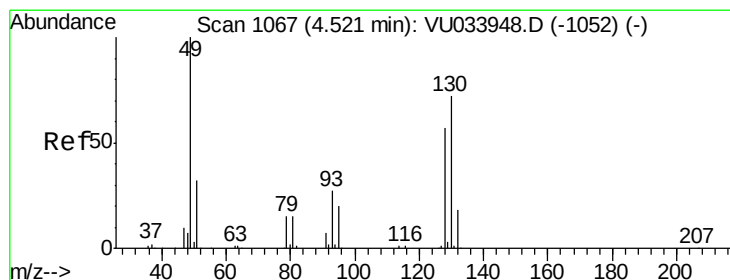
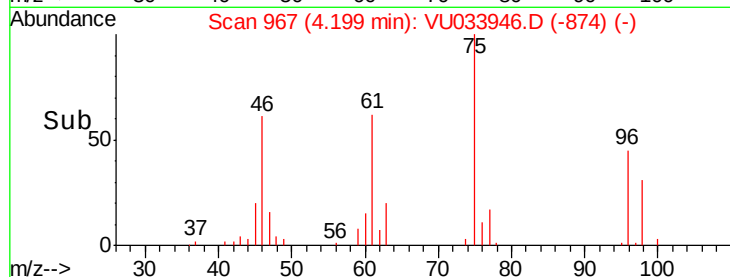
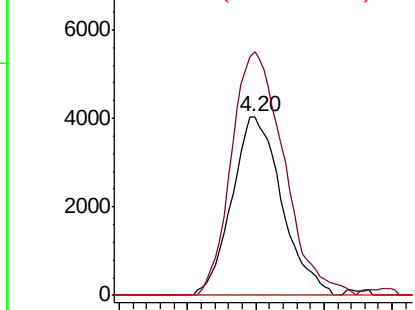
cis-1,2-Dichloroethene
 Concen: 0.642 ug/L
 RT: 4.20 min Scan# 967
 Delta R.T. 0.00 min
 Lab File: VU033946.D
 Acq: 26 Aug 2019 10:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.506

Tgt Ion: 96 Resp: 10233
 Ion Ratio Lower Upper
 96 100
 61 136.3 93.8 174.2
 68 0.0 0.0 0.0



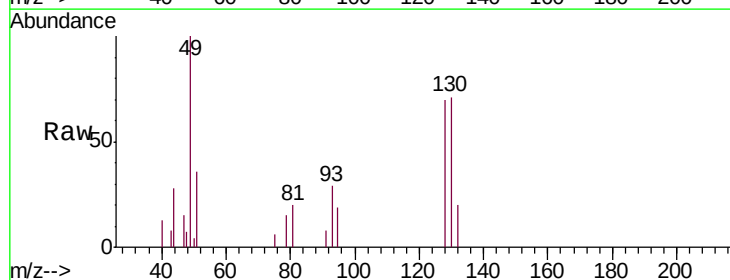
Abundance Ion 96.00 (95.70 to 96.70): VU0
 Ion 61.05 (60.75 to 61.75): VU0
 Ion 68.15 (67.85 to 68.85): VU0



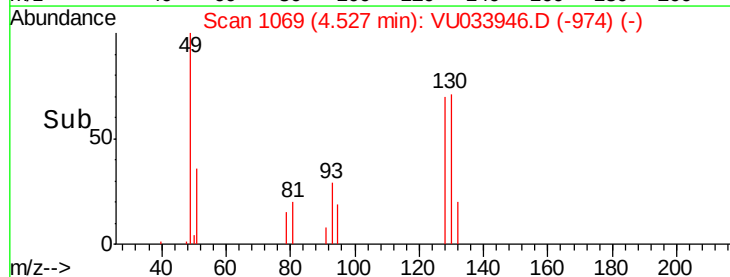
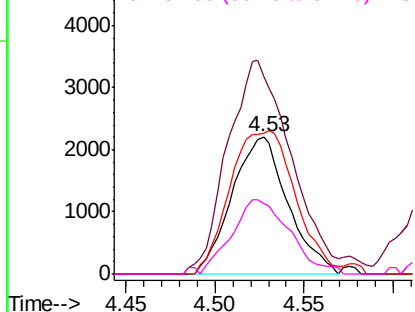
#23

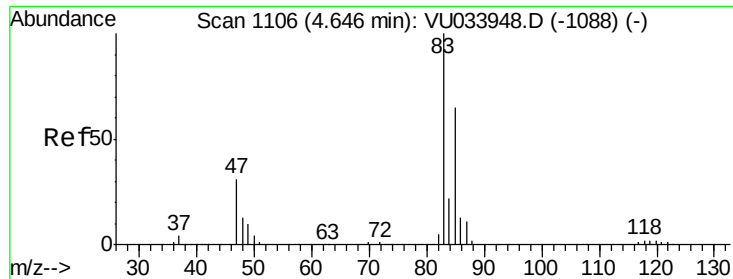
Bromochloromethane
 Concen: 0.630 ug/L
 RT: 4.53 min Scan# 1069
 Delta R.T. 0.01 min
 Lab File: VU033946.D
 Acq: 26 Aug 2019 10:41

Tgt Ion: 128 Resp: 4828
 Ion Ratio Lower Upper
 128 100
 49 143.6 122.4 227.2
 130 102.6 87.8 163.0
 51 51.8 44.0 66.0



Abundance Ion 127.90 (127.60 to 128.60): V
 Ion 49.10 (48.80 to 49.80): VU0
 Ion 129.95 (129.65 to 130.65): V
 Ion 51.05 (50.75 to 51.75): VU0

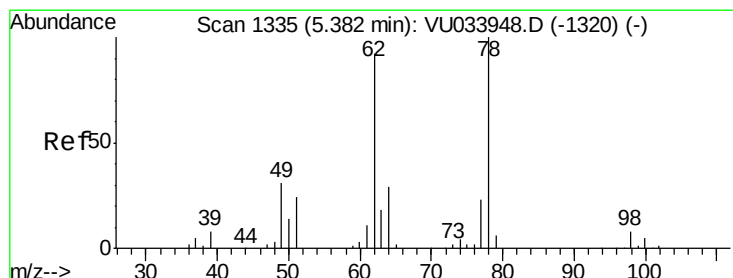
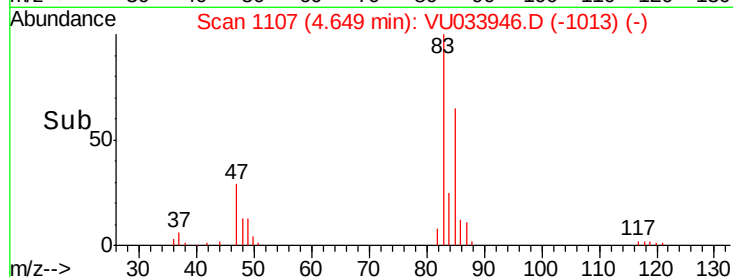
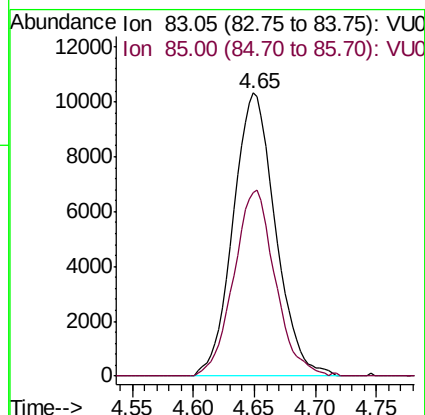
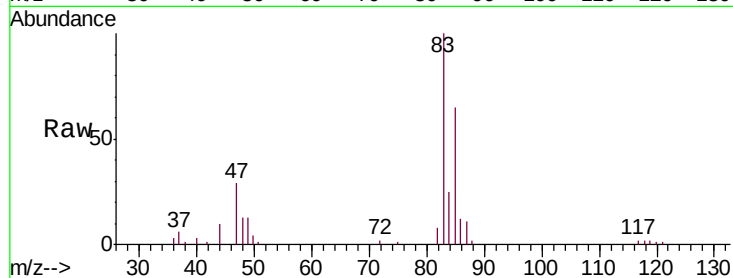




#25
Chloroform
Concen: 0.754 ug/L
RT: 4.65 min Scan# 1107
Delta R.T. 0.00 min
Lab File: VU033946.D
Acq: 26 Aug 2019 10:41

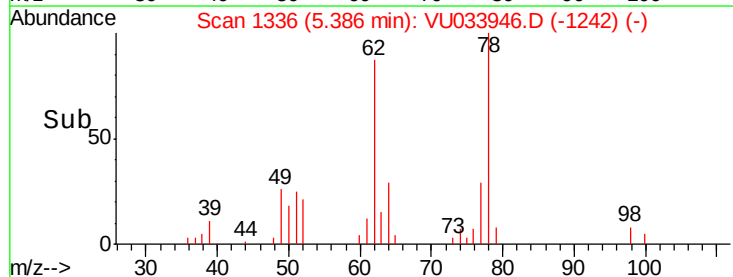
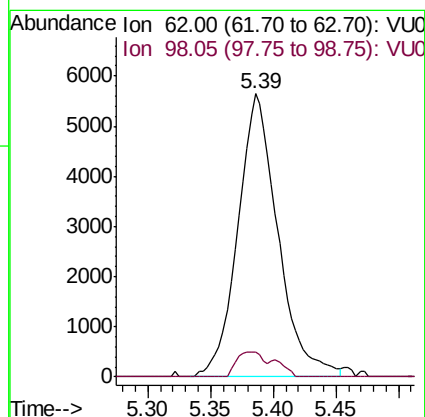
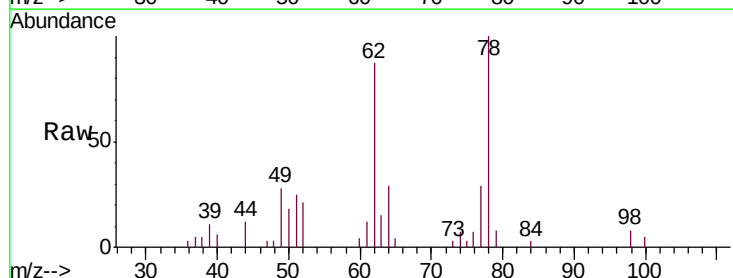
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.506

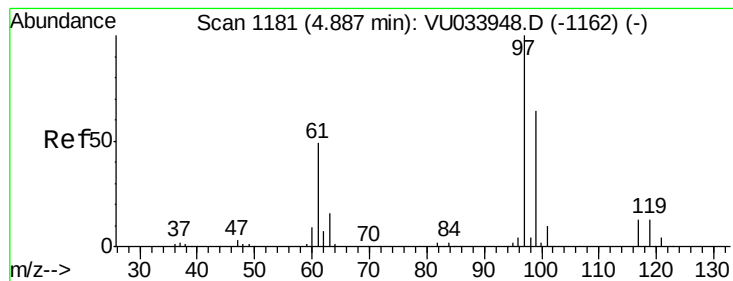
Tgt Ion: 83 Resp: 24837
Ion Ratio Lower Upper
83 100
85 64.7 45.7 84.9



#27
1,2-Dichloroethane
Concen: 0.655 ug/L
RT: 5.39 min Scan# 1336
Delta R.T. 0.00 min
Lab File: VU033946.D
Acq: 26 Aug 2019 10:41

Tgt Ion: 62 Resp: 12532
Ion Ratio Lower Upper
62 100
98 8.9 7.2 10.8





#29

1,1,1-Trichloroethane

Concen: 0.655 ug/L

RT: 4.89 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VU033946.D

Acq: 26 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.506

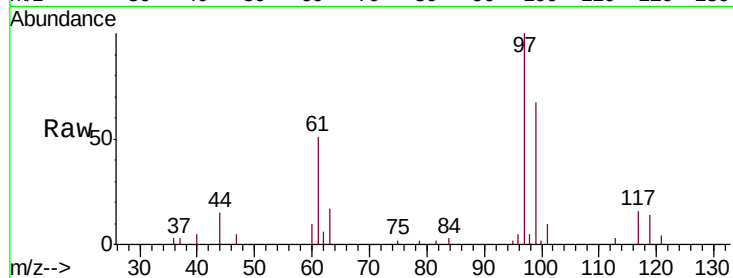
Tgt Ion: 97 Resp: 16004

Ion Ratio Lower Upper

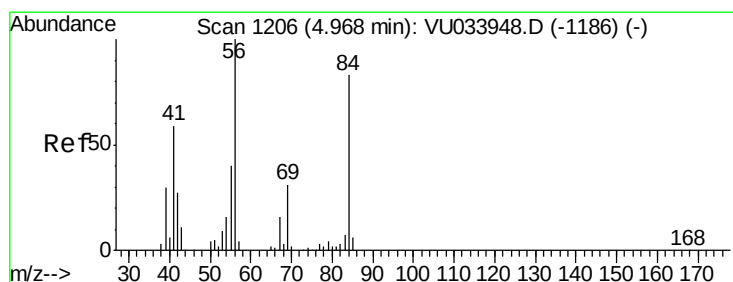
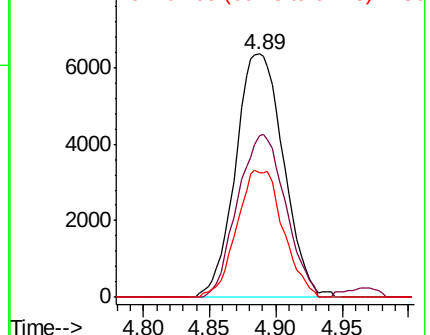
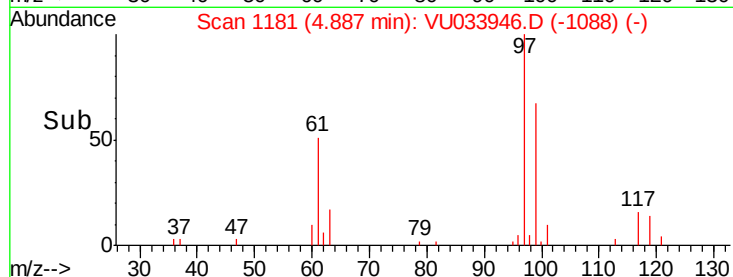
97 100

99 66.8 51.5 77.3

61 50.2 39.1 58.7



Abundance Ion 96.95 (96.65 to 97.65): VU033946.D (-1088) (-)



#30

Cyclohexane

Concen: 0.660 ug/L

RT: 4.97 min Scan# 1207

Delta R.T. 0.00 min

Lab File: VU033946.D

Acq: 26 Aug 2019 10:41

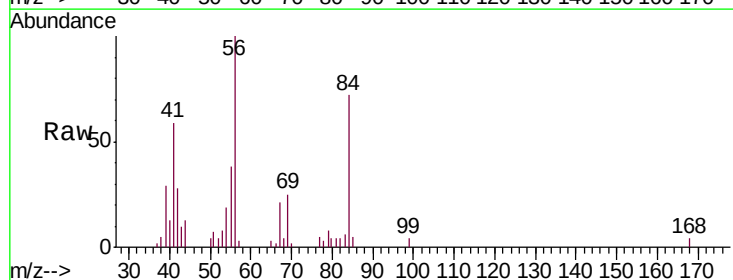
Tgt Ion: 56 Resp: 14295

Ion Ratio Lower Upper

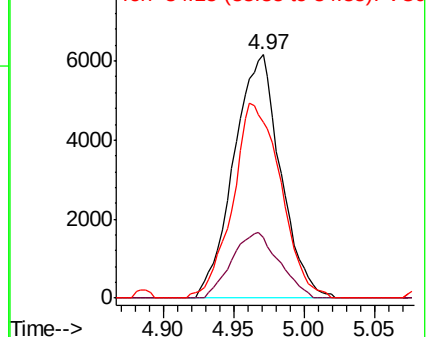
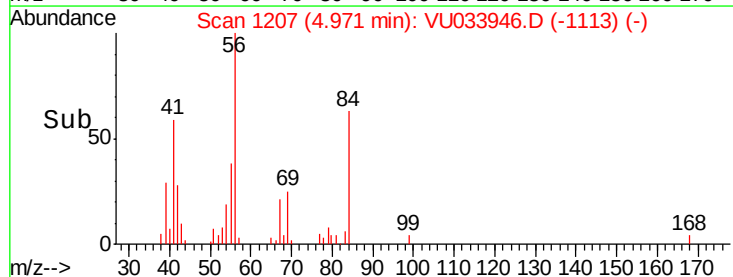
56 100

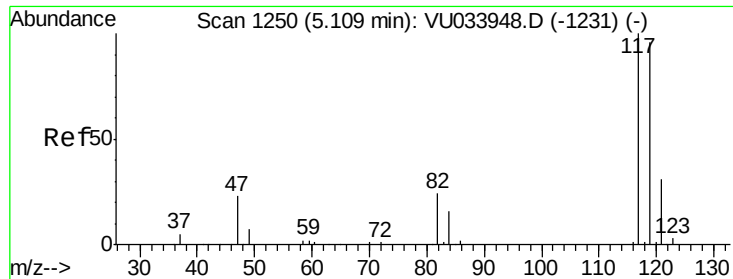
69 27.2 23.5 35.3

84 82.3 66.3 99.5



Abundance Ion 56.10 (55.80 to 56.80): VU033946.D (-1113) (-)





#31

Carbon tetrachloride

Concen: 0.650 ug/L

RT: 5.11 min Scan# 1250

Delta R.T. 0.00 min

Lab File: VU033946.D

Acq: 26 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

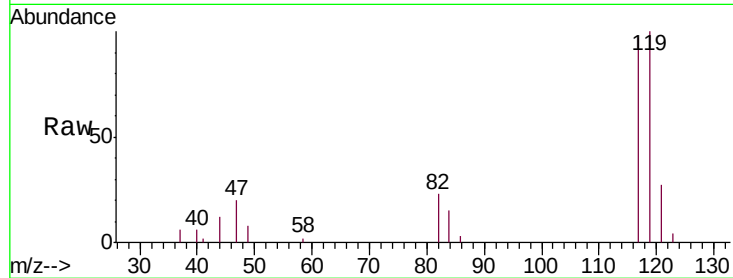
VSTD0.506

Tgt Ion:117 Resp: 14241

Ion Ratio Lower Upper

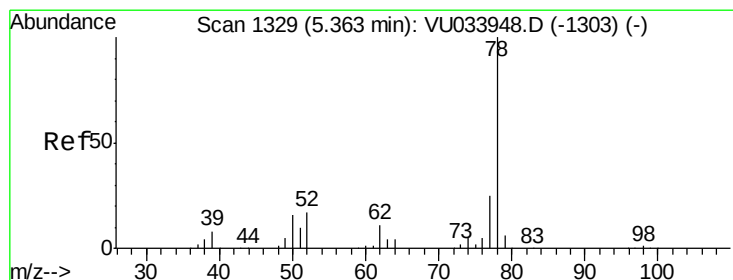
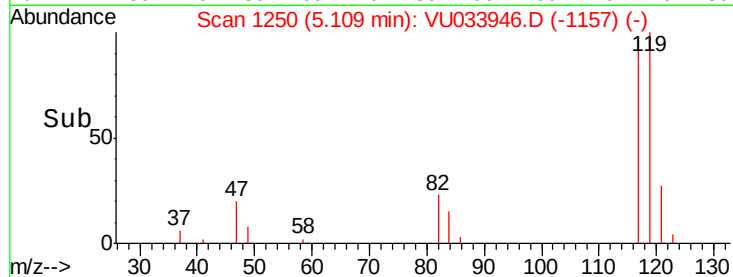
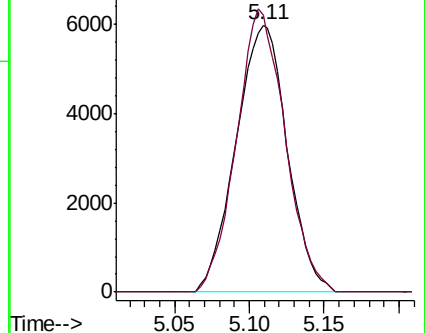
117 100

119 100.8 76.4 114.6



Abundance Ion 116.90 (116.60 to 117.60): V

Ion 118.90 (118.60 to 119.60): V



#33

Benzene

Concen: 0.632 ug/L

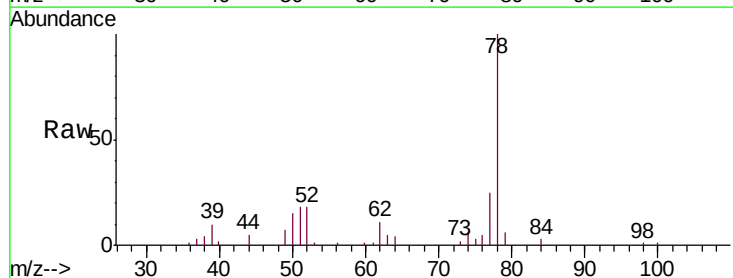
RT: 5.37 min Scan# 1330

Delta R.T. 0.00 min

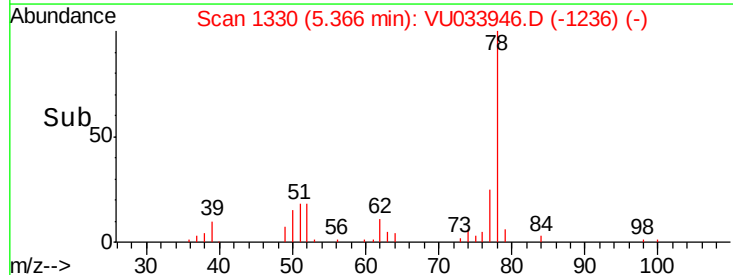
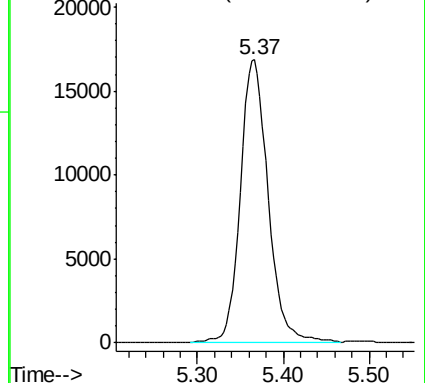
Lab File: VU033946.D

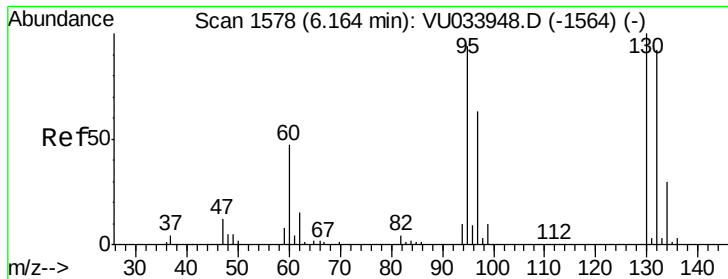
Acq: 26 Aug 2019 10:41

Tgt Ion: 78 Resp: 38027



Abundance Ion 78.10 (77.80 to 78.80): VU0





#34

Trichloroethene

Concen: 0.696 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU033946.D

Acq: 26 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.506

Tgt Ion: 95 Resp: 11025

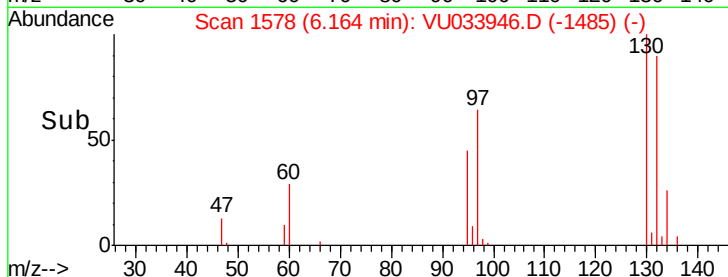
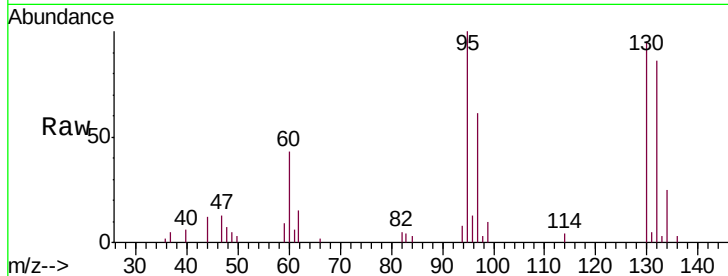
Ion Ratio Lower Upper

95 100

97 60.8 46.9 87.1

132 85.5 67.9 126.1

130 95.1 74.1 137.7

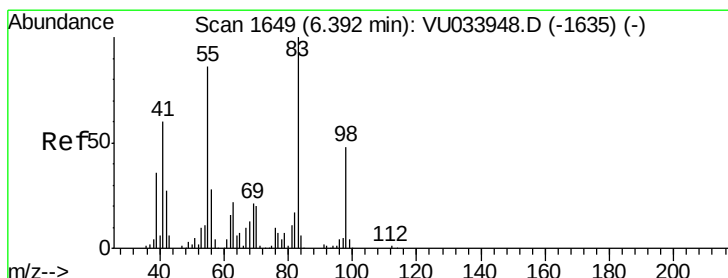
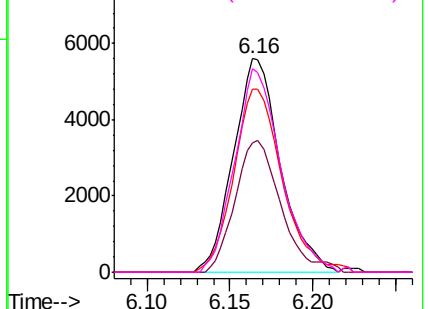


Abundance Ion 95.00 (94.70 to 95.70): VU033946.D (-1485) (-)

Ion 96.95 (96.65 to 97.65): VU033946.D (-1485) (-)

Ion 131.95 (131.65 to 132.65): VU033946.D (-1485) (-)

Ion 129.95 (129.65 to 130.65): VU033946.D (-1485) (-)



#35

Methylcyclohexane

Concen: 0.612 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU033946.D

Acq: 26 Aug 2019 10:41

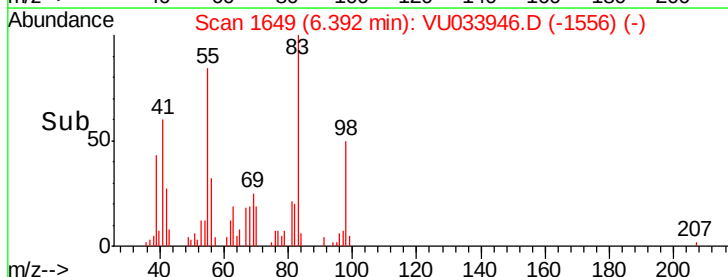
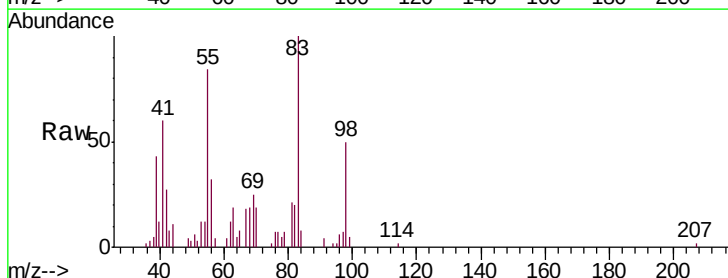
Tgt Ion: 83 Resp: 13882

Ion Ratio Lower Upper

83 100

55 84.1 68.6 103.0

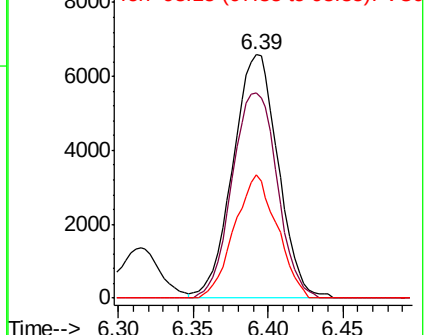
98 47.7 38.7 58.1

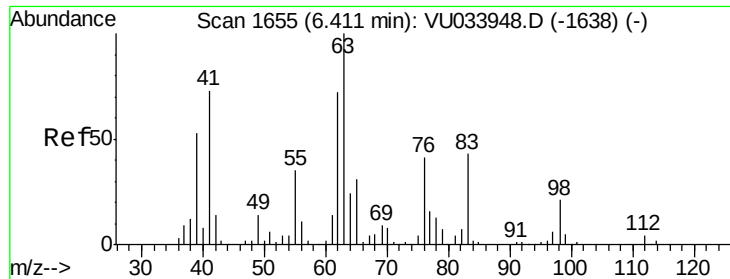


Abundance Ion 83.15 (82.85 to 83.85): VU033946.D (-1556) (-)

Ion 55.10 (54.80 to 55.80): VU033946.D (-1556) (-)

Ion 98.15 (97.85 to 98.85): VU033946.D (-1556) (-)

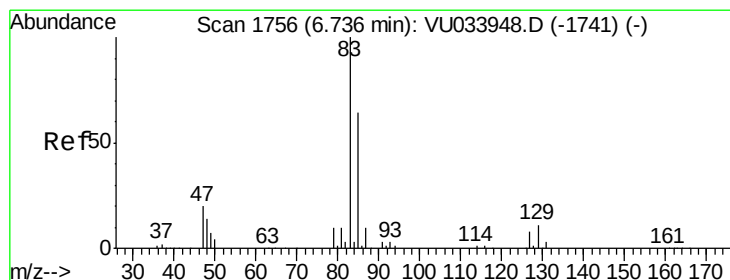
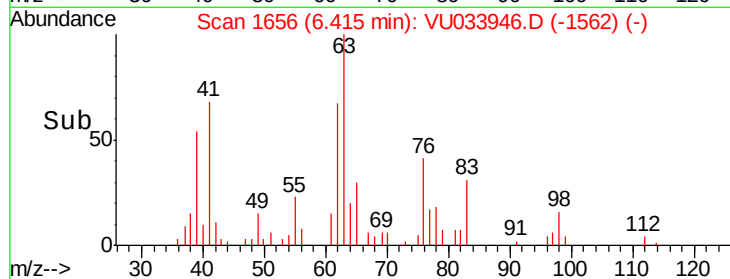
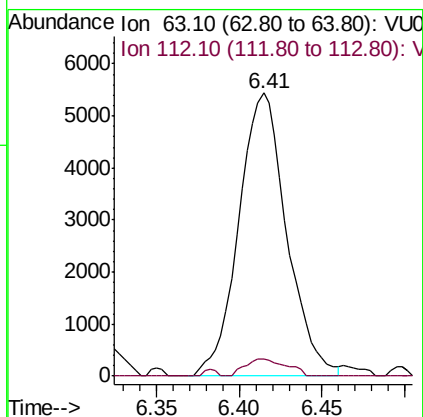
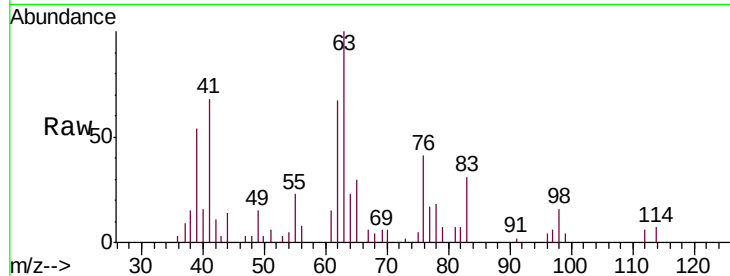




#37
 1,2-Dichloropropane
 Concen: 0.687 ug/L
 RT: 6.41 min Scan# 1656
 Delta R.T. 0.00 min
 Lab File: VU033946.D
 Acq: 26 Aug 2019 10:41

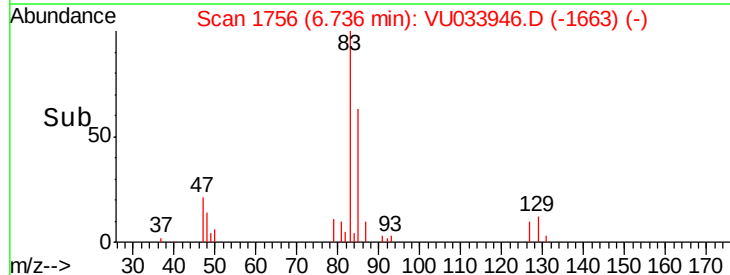
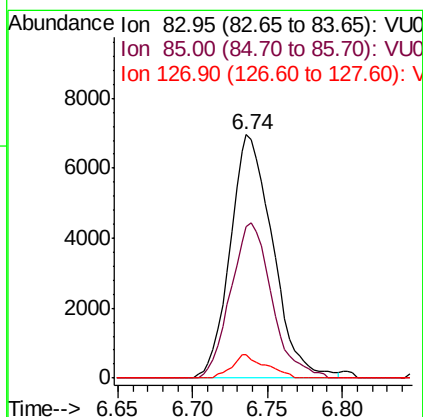
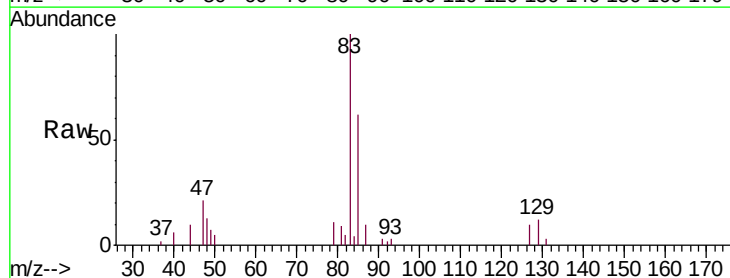
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.506

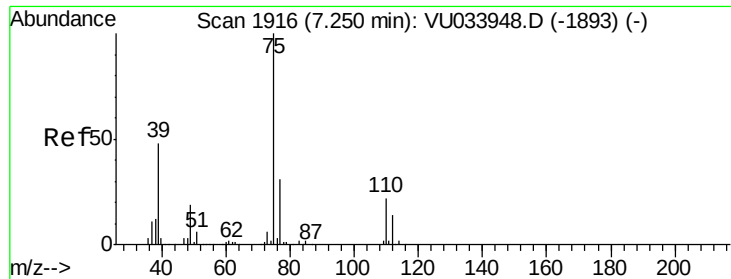
Tgt Ion: 63 Resp: 10953
 Ion Ratio Lower Upper
 63 100
 112 5.2 3.4 5.0#



#38
 Bromodichloromethane
 Concen: 0.677 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. 0.00 min
 Lab File: VU033946.D
 Acq: 26 Aug 2019 10:41

Tgt Ion: 83 Resp: 13765
 Ion Ratio Lower Upper
 83 100
 85 62.2 44.5 82.7
 127 9.5 6.6 9.8

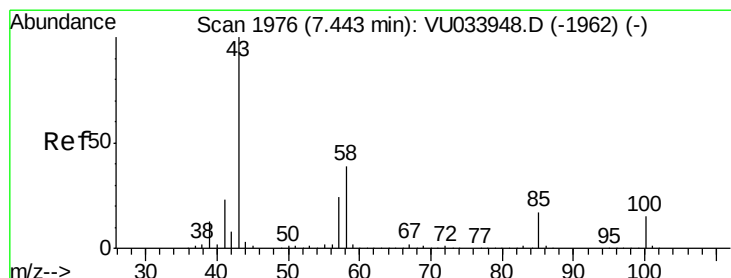
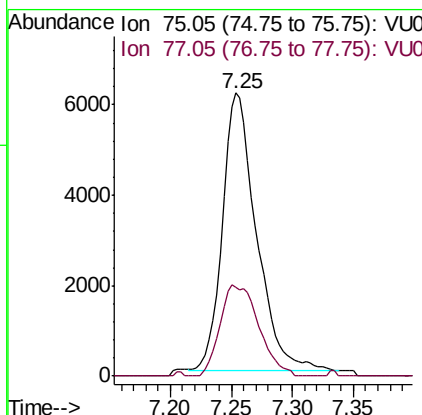
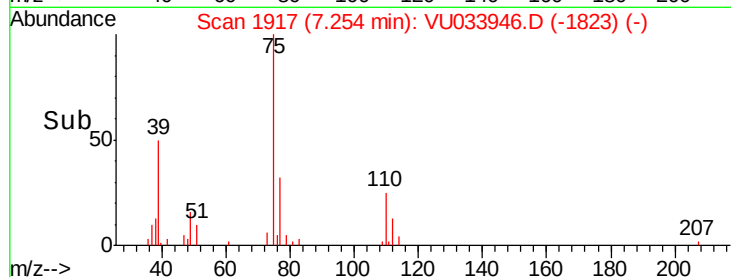
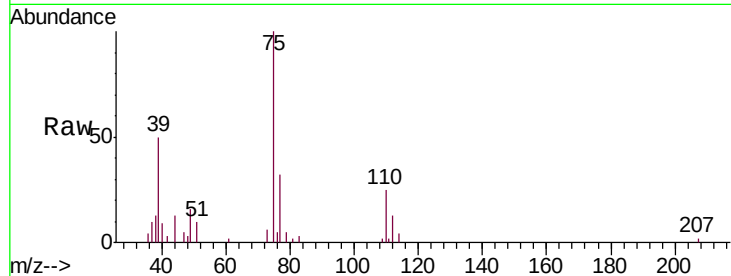




#39
 cis-1,3-Dichloropropene
 Concen: 0.571 ug/L
 RT: 7.25 min Scan# 1917
 Delta R.T. 0.00 min
 Lab File: VU033946.D
 Acq: 26 Aug 2019 10:41

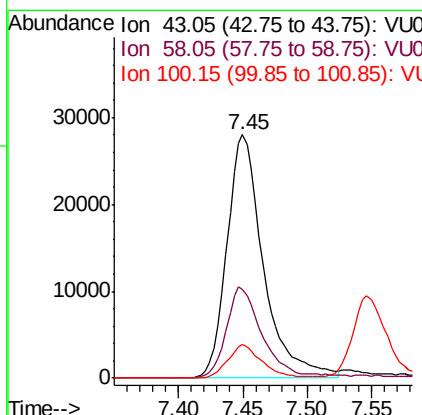
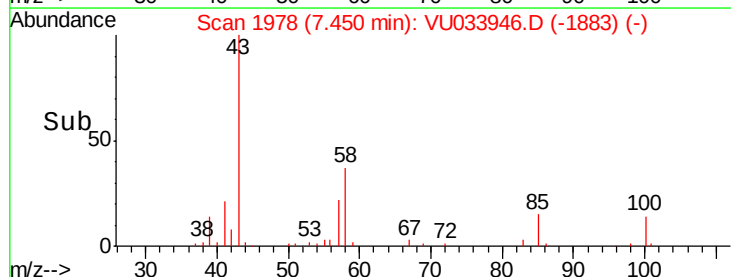
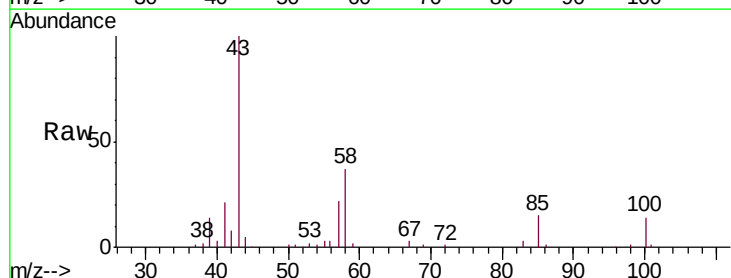
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.506

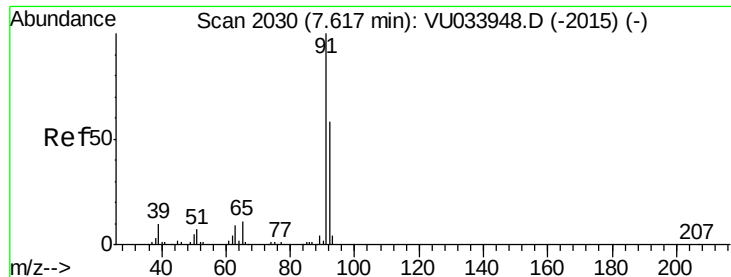
Tgt Ion: 75 Resp: 12030
 Ion Ratio Lower Upper
 75 100
 77 31.5 21.9 40.7



#40
 4-Methyl-2-pentanone
 Concen: 6.109 ug/L
 RT: 7.45 min Scan# 1978
 Delta R.T. 0.01 min
 Lab File: VU033946.D
 Acq: 26 Aug 2019 10:41

Tgt Ion: 43 Resp: 55202
 Ion Ratio Lower Upper
 43 100
 58 37.6 30.3 45.5
 100 13.0 11.4 17.2





#42

Toluene

Concen: 0.587 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033946.D

Acq: 26 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

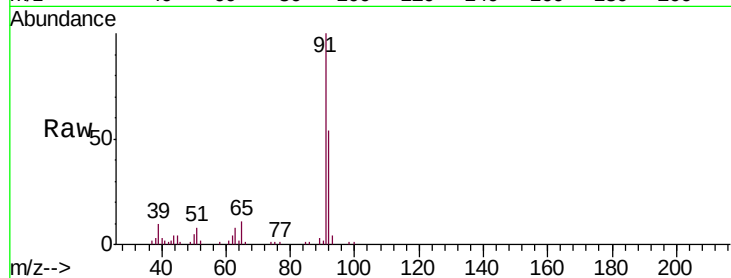
VSTD0.506

Tgt Ion: 91 Resp: 35799

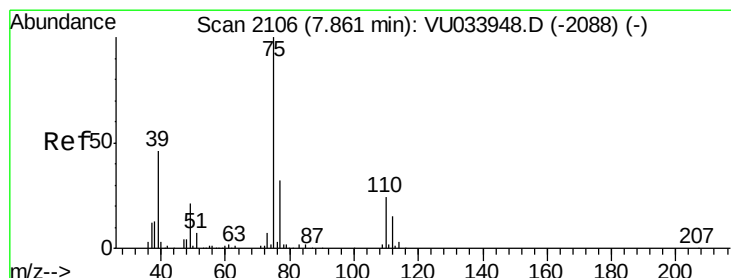
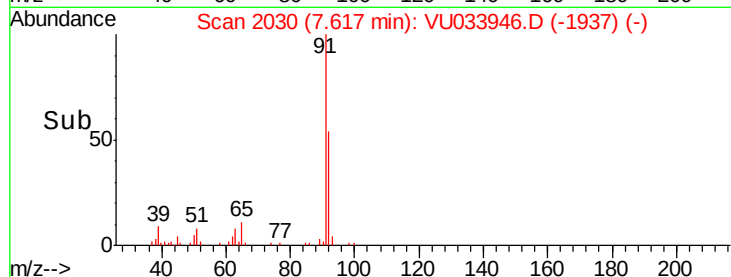
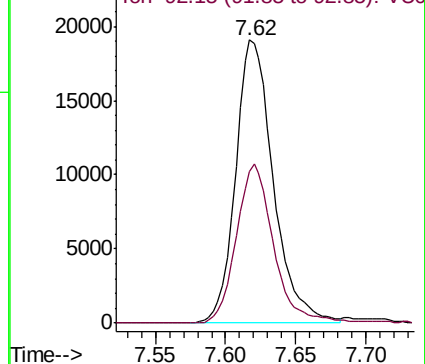
Ion Ratio Lower Upper

91 100

92 53.7 40.4 75.0



Abundance Ion 91.15 (90.85 to 91.85): VU033946.D (-1937) (-)



#44

trans-1,3-Dichloropropene

Concen: 0.562 ug/L

RT: 7.87 min Scan# 2108

Delta R.T. 0.01 min

Lab File: VU033946.D

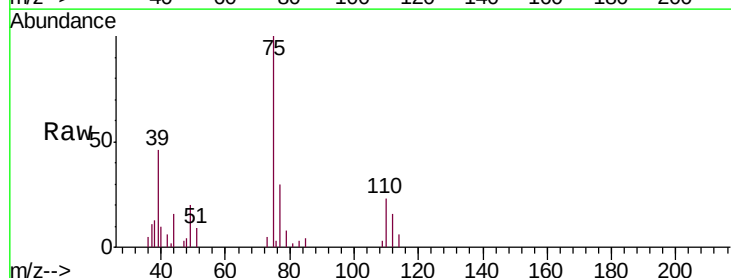
Acq: 26 Aug 2019 10:41

Tgt Ion: 75 Resp: 9944

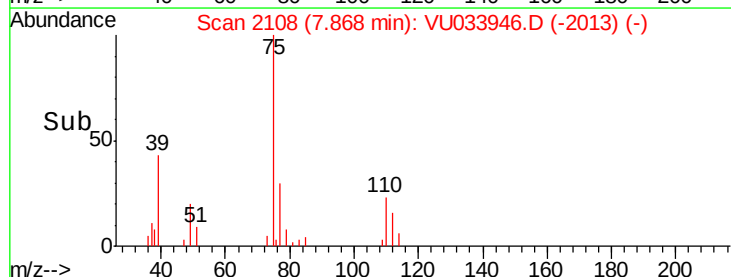
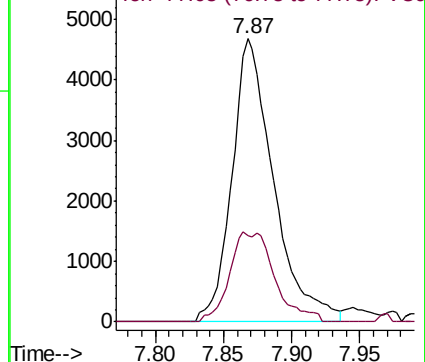
Ion Ratio Lower Upper

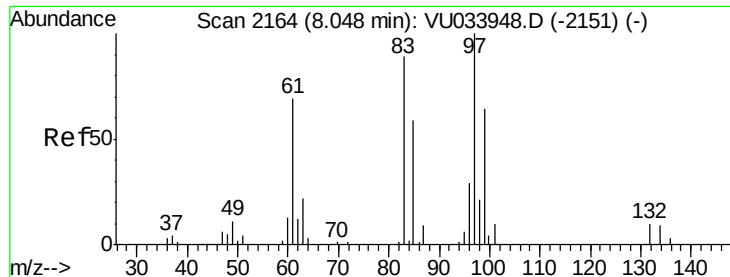
75 100

77 30.4 22.7 42.1



Abundance Ion 75.05 (74.75 to 75.75): VU033946.D (-2013) (-)

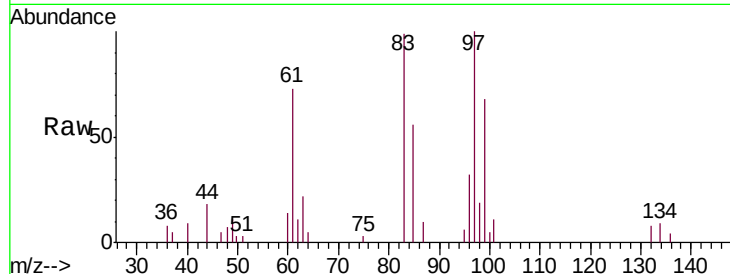




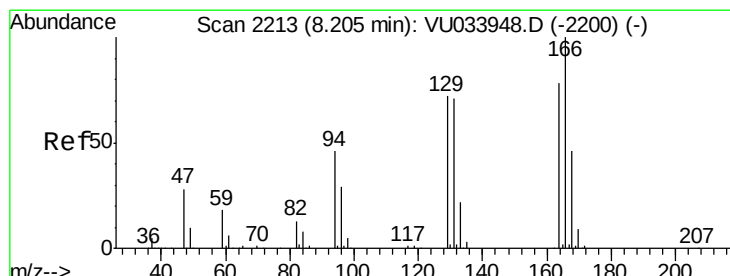
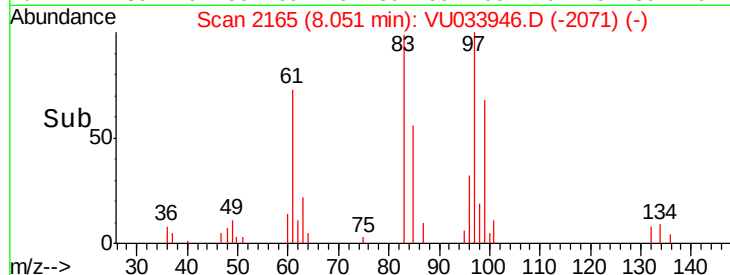
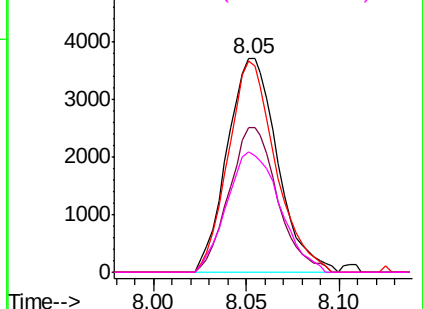
#45
 1,1,2-Trichloroethane
 Concen: 0.621 ug/L
 RT: 8.05 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VU033946.D
 Acq: 26 Aug 2019 10:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.506

Tgt Ion:	97	Resp:	6980
Ion	Ratio	Lower	Upper
97	100		
99	67.8	44.9	83.3
83	98.7	62.6	116.3
85	56.2	41.0	76.2

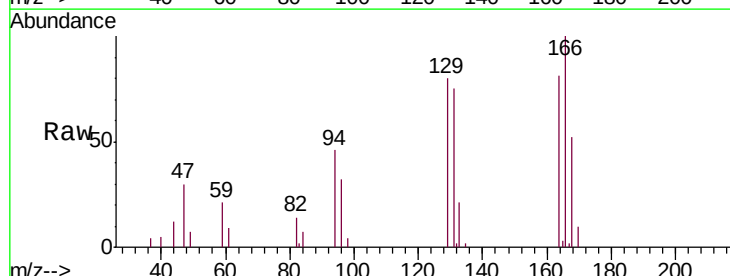


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

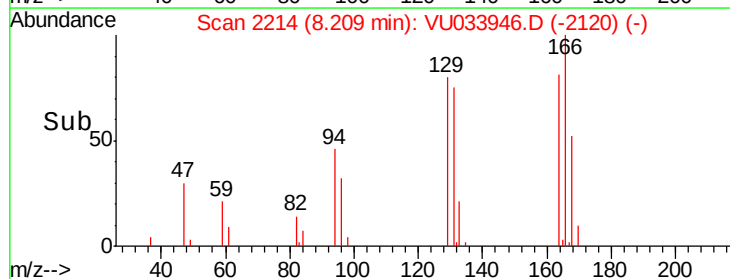
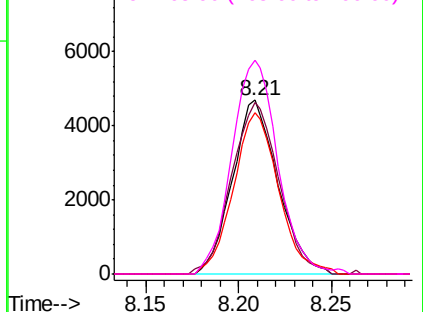


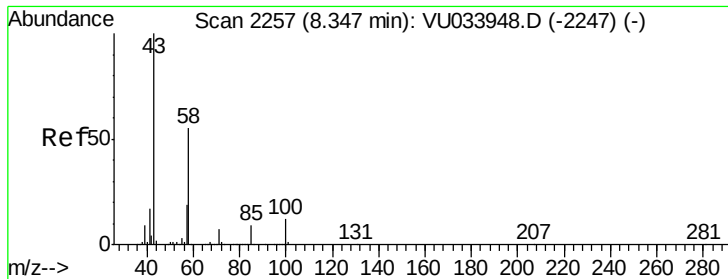
#47
 Tetrachloroethene
 Concen: 0.618 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. 0.00 min
 Lab File: VU033946.D
 Acq: 26 Aug 2019 10:41

Tgt Ion:	164	Resp:	7987
Ion	Ratio	Lower	Upper
164	100		
129	98.7	64.9	120.5
131	92.4	63.7	118.3
166	122.9	89.9	167.0



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

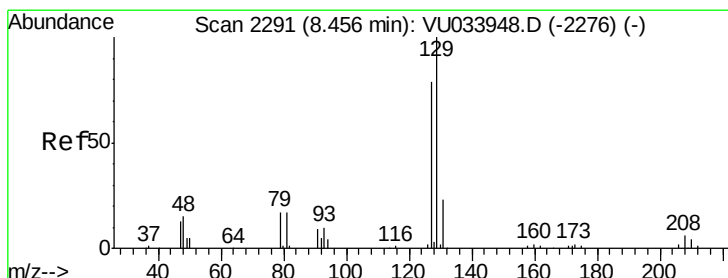
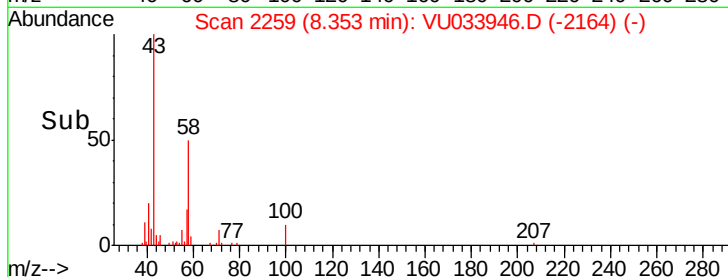
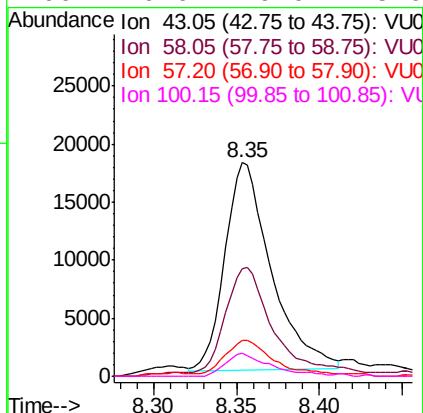
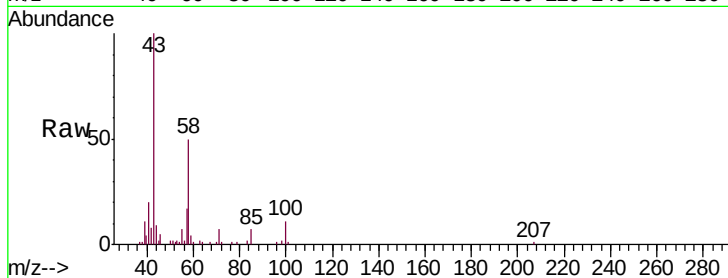




#48
2-Hexanone
Concen: 5.313 ug/L
RT: 8.35 min Scan# 2259
Delta R.T. 0.01 min
Lab File: VU033946.D
Acq: 26 Aug 2019 10:41

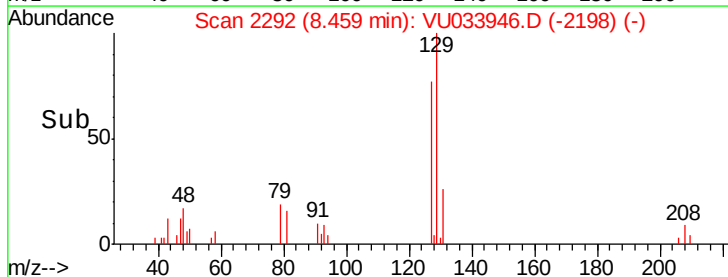
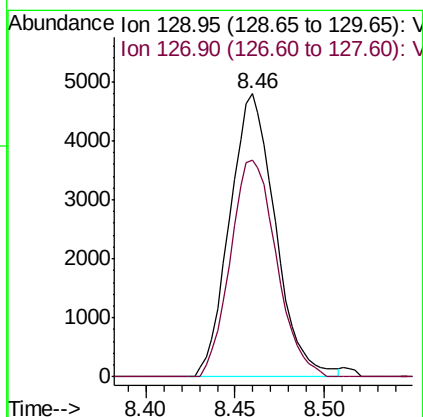
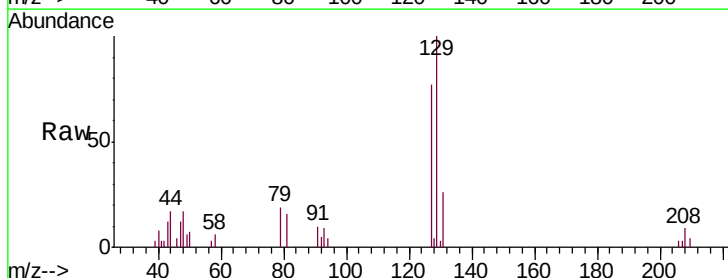
Instrument :
MSVOA_U
ClientSampleId :
VSTD0.506

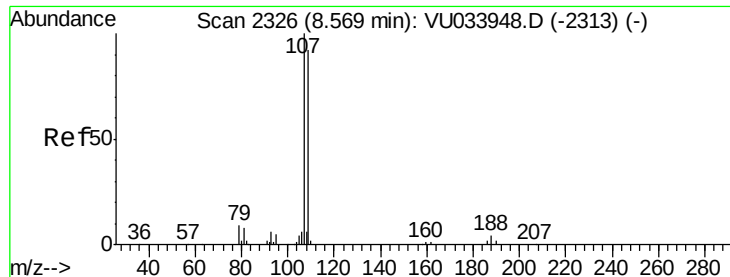
Tgt Ion:	43	Resp:	34809
Ion	Ratio	Lower	Upper
43	100		
58	54.8	42.9	64.3
57	19.4	14.8	22.2
100	10.6	9.0	13.6



#49
Dibromochloromethane
Concen: 0.614 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. 0.00 min
Lab File: VU033946.D
Acq: 26 Aug 2019 10:41

Tgt Ion:	129	Resp:	8531
Ion	Ratio	Lower	Upper
129	100		
127	76.6	55.6	103.2

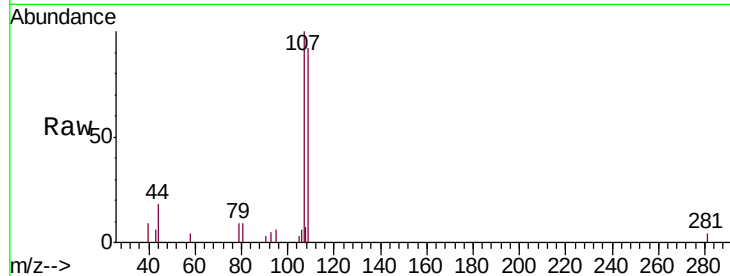




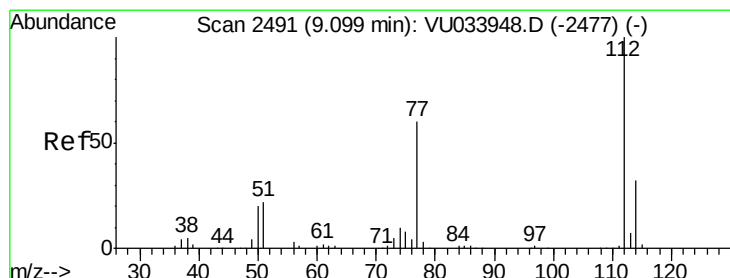
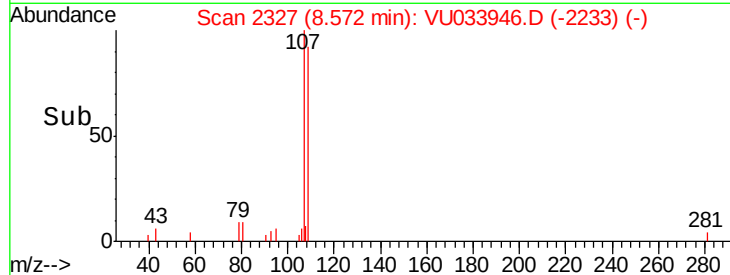
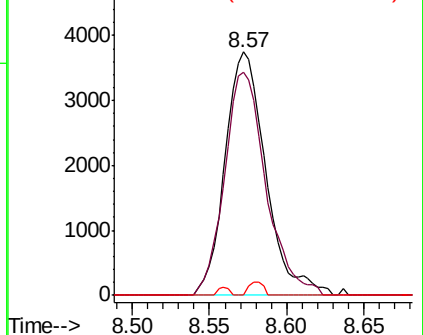
#50
 1,2-Dibromoethane
 Concen: 0.637 ug/L
 RT: 8.57 min Scan# 2327
 Delta R.T. 0.00 min
 Lab File: VU033946.D
 Acq: 26 Aug 2019 10:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.506

Tgt Ion:107 Resp: 6872
 Ion Ratio Lower Upper
 107 100
 109 91.6 64.7 120.1
 188 0.0 3.4 5.2#

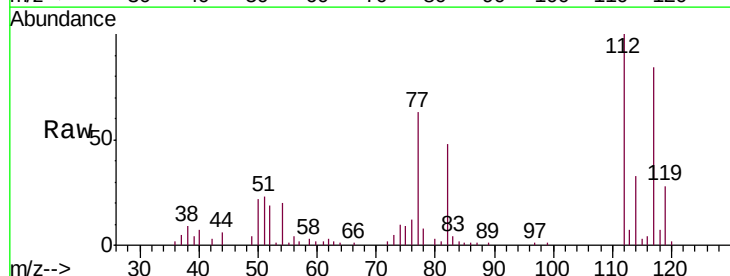


Abundance Ion 106.95 (106.65 to 107.65): V
 Ion 109.00 (108.70 to 109.70): V
 Ion 187.90 (187.60 to 188.60): V

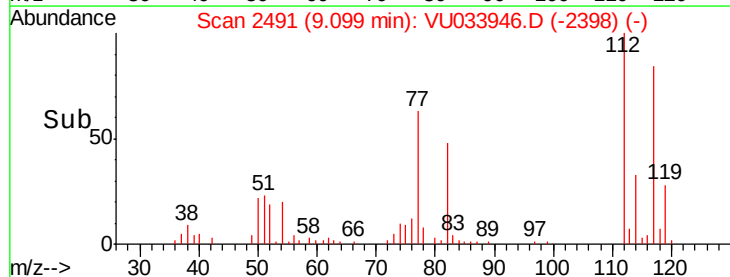
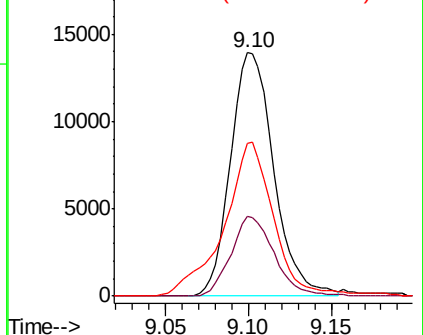


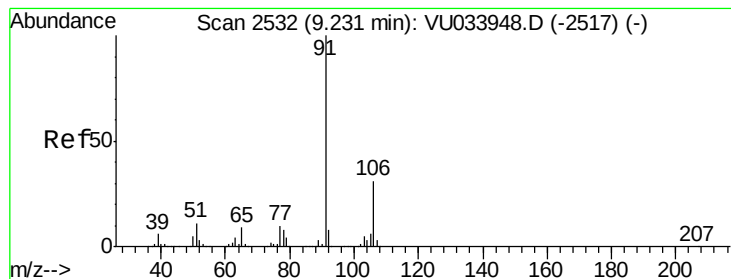
#51
 Chlorobenzene
 Concen: 0.633 ug/L
 RT: 9.10 min Scan# 2491
 Delta R.T. 0.00 min
 Lab File: VU033946.D
 Acq: 26 Aug 2019 10:41

Tgt Ion:112 Resp: 25444
 Ion Ratio Lower Upper
 112 100
 114 32.5 22.3 41.5
 77 62.5 48.0 72.0



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





#52

Ethylbenzene

Concen: 0.584 ug/L

RT: 9.23 min Scan# 2533

Delta R.T. 0.00 min

Lab File: VU033946.D

Acq: 26 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

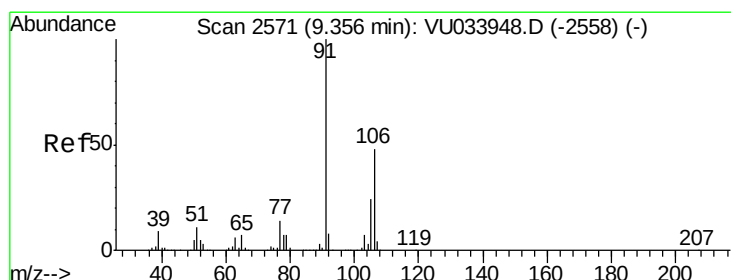
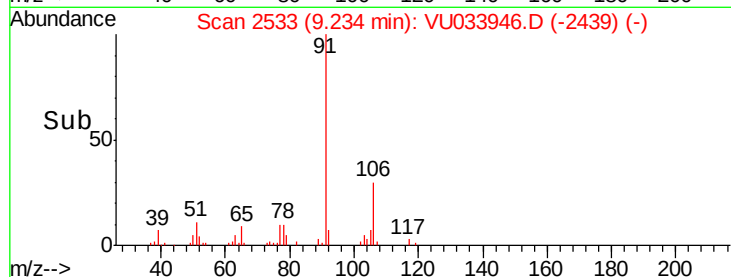
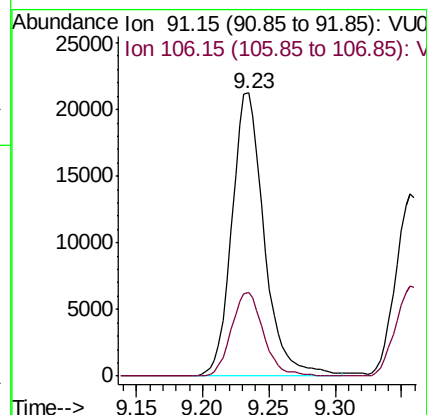
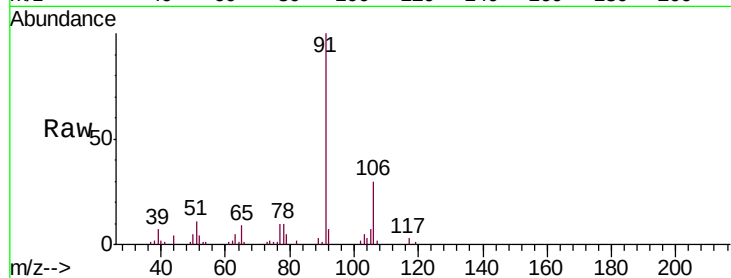
VSTD0.506

Tgt Ion: 91 Resp: 36079

Ion Ratio Lower Upper

91 100

106 29.6 22.0 40.8



#53

m,p-Xylene

Concen: 0.561 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU033946.D

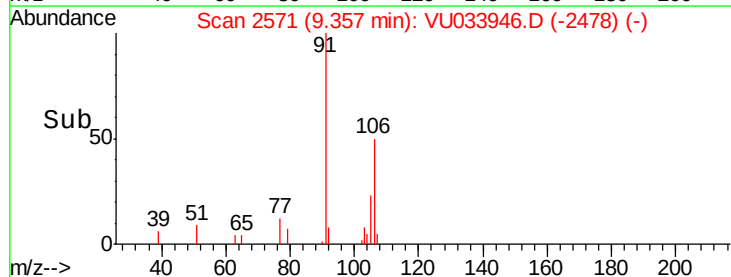
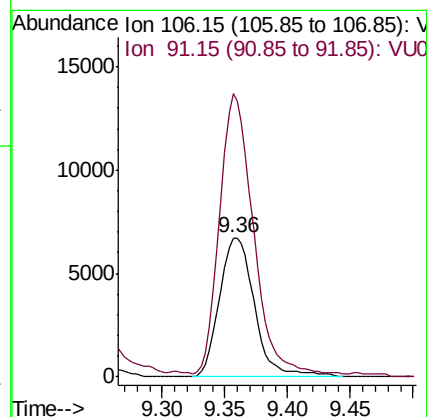
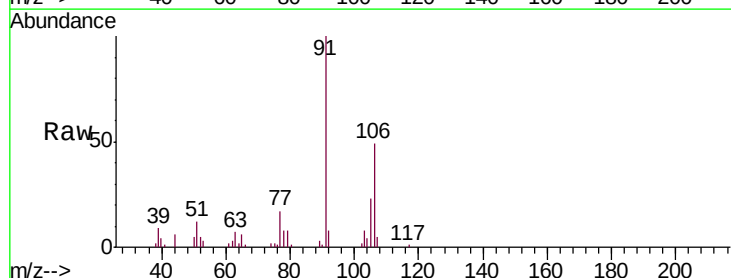
Acq: 26 Aug 2019 10:41

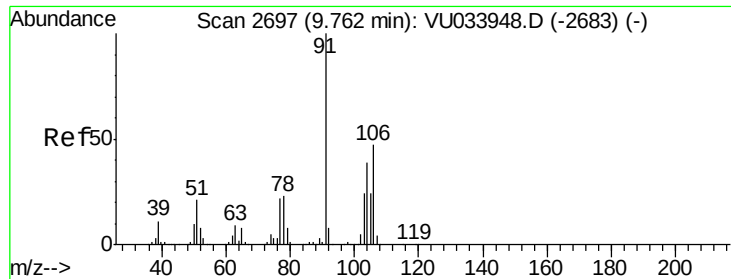
Tgt Ion: 106 Resp: 13068

Ion Ratio Lower Upper

106 100

91 203.9 145.1 269.5

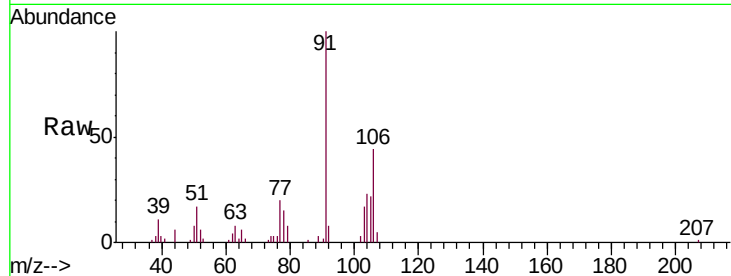




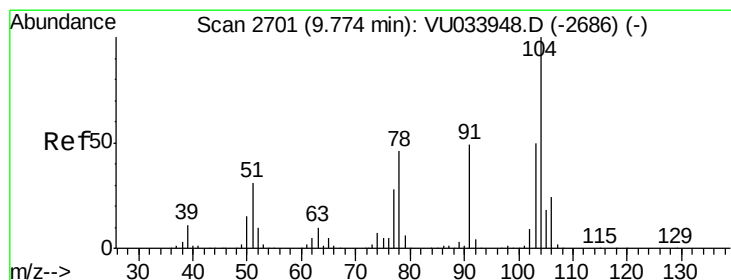
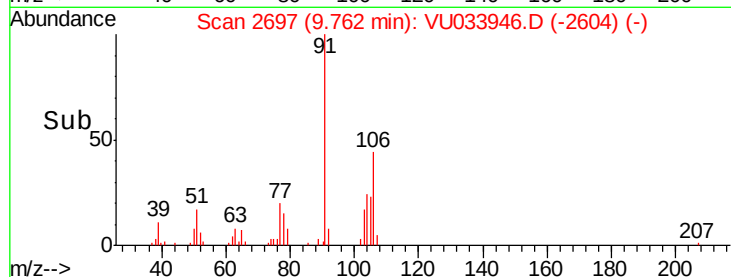
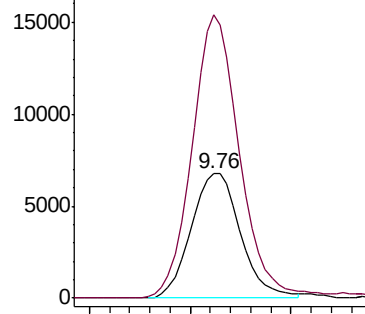
#54
o-Xylene
Concen: 0.518 ug/L
RT: 9.76 min Scan# 2697
Delta R.T. 0.00 min
Lab File: VU033946.D
Acq: 26 Aug 2019 10:41

Instrument :
MSVOA_U
ClientSampleId :
VSTD0.506

Tgt Ion:106 Resp: 11583
Ion Ratio Lower Upper
106 100
91 227.4 150.6 279.6

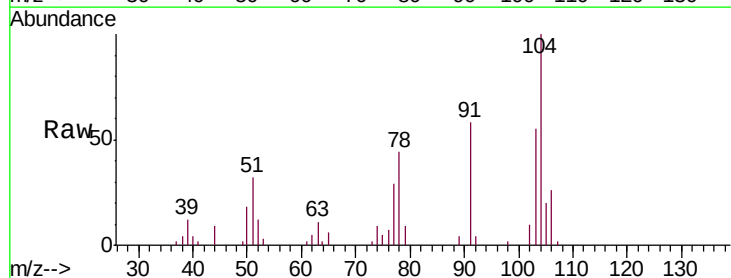


Abundance Ion 106.15 (105.85 to 106.85): V
Ion 91.15 (90.85 to 91.85): VU0

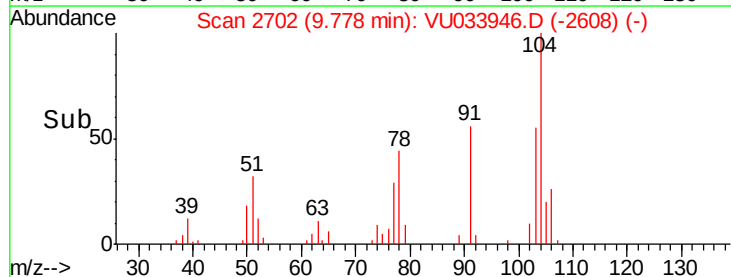
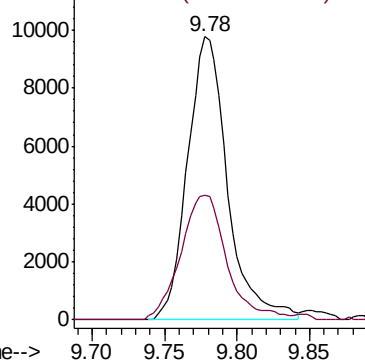


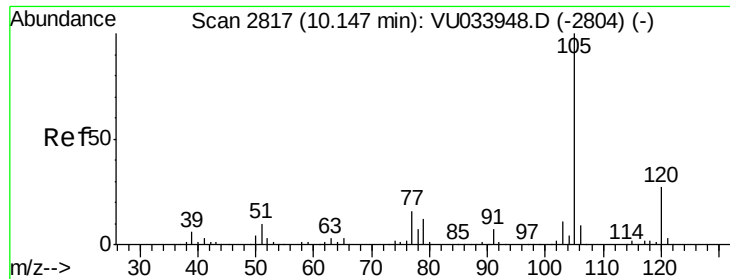
#55
Styrene
Concen: 0.482 ug/L
RT: 9.78 min Scan# 2702
Delta R.T. 0.00 min
Lab File: VU033946.D
Acq: 26 Aug 2019 10:41

Tgt Ion:104 Resp: 18737
Ion Ratio Lower Upper
104 100
78 44.1 31.9 59.3



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





#56

Isopropylbenzene

Concen: 0.536 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. 0.00 min

Lab File: VU033946.D

Acq: 26 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.506

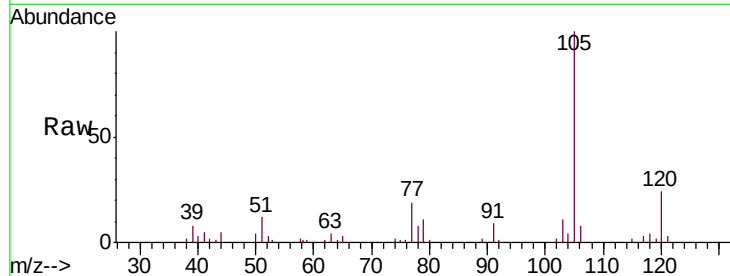
Tgt Ion: 105 Resp: 30889

Ion Ratio Lower Upper

105 100

120 24.0 21.4 32.2

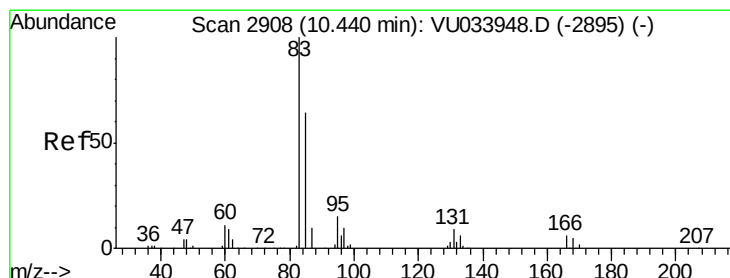
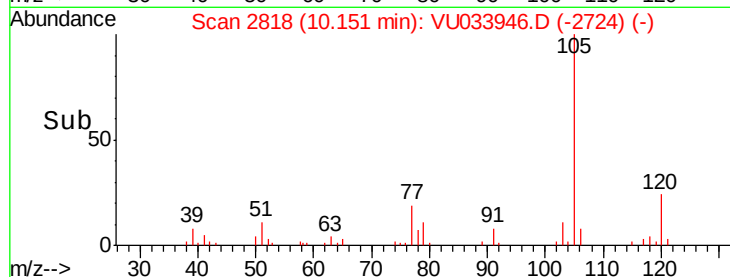
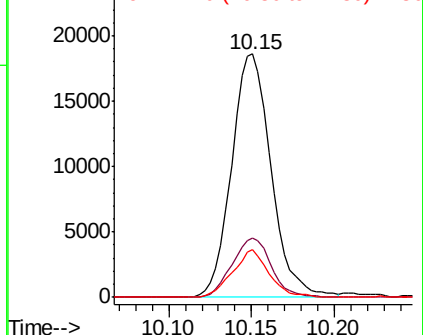
77 18.0 13.3 19.9



Abundance Ion 105.05 (104.75 to 105.75): V

Ion 120.10 (119.80 to 120.80): V

Ion 77.10 (76.80 to 77.80): V



#58

1,1,2,2-Tetrachloroethane

Concen: 0.661 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033946.D

Acq: 26 Aug 2019 10:41

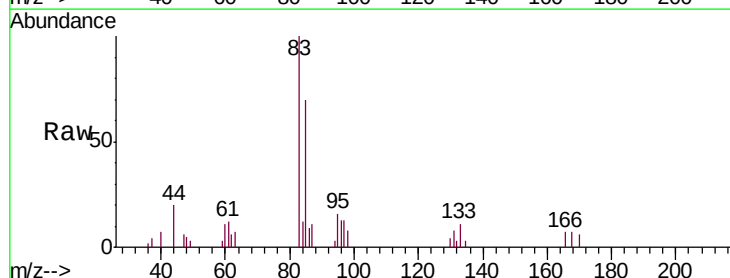
Tgt Ion: 83 Resp: 9492

Ion Ratio Lower Upper

83 100

85 69.5 45.1 83.9

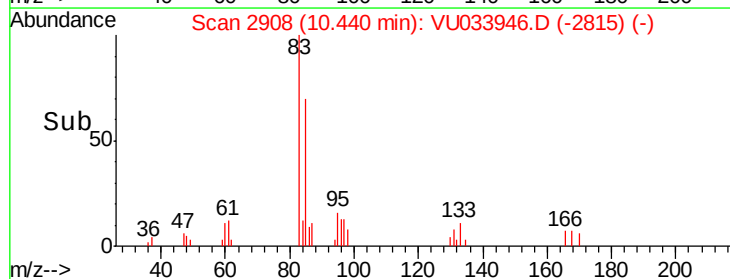
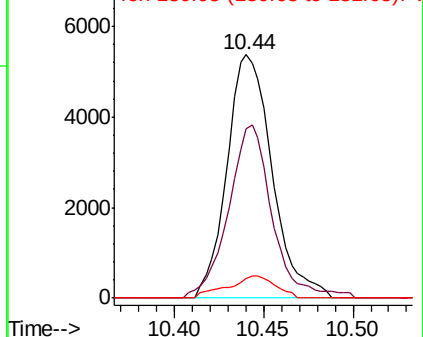
131 8.2 7.8 11.8

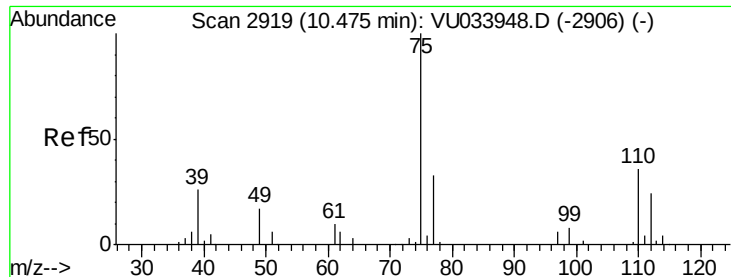


Abundance Ion 82.95 (82.65 to 83.65): V

Ion 85.00 (84.70 to 85.70): V

Ion 130.95 (130.65 to 131.65): V

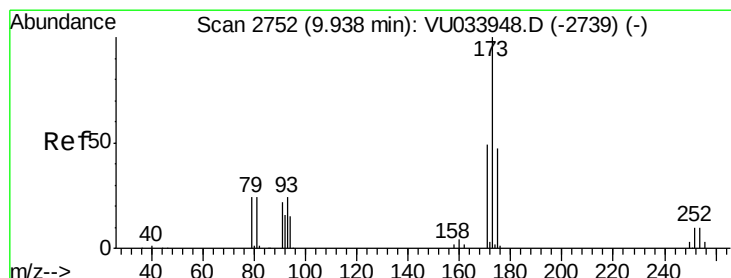
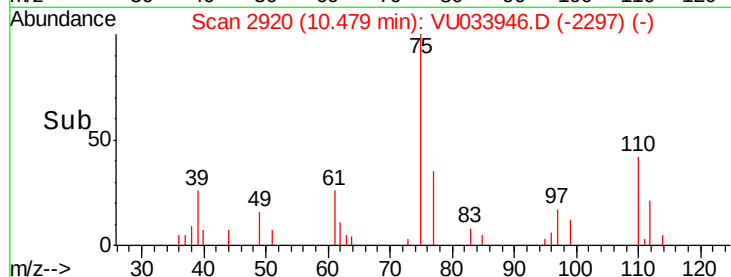
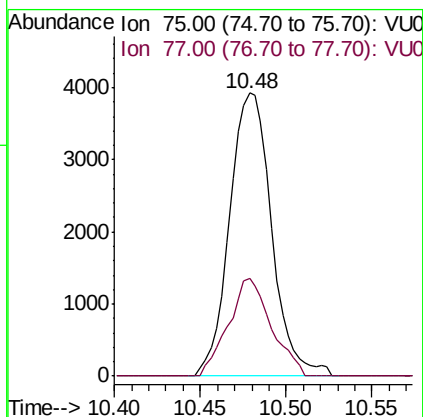
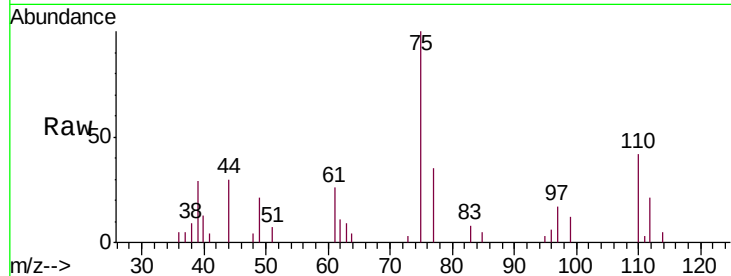




#59
 1,2,3-Trichloropropane
 Concen: 0.637 ug/L
 RT: 10.48 min Scan# 2920
 Delta R.T. 0.00 min
 Lab File: VU033946.D
 Acq: 26 Aug 2019 10:41

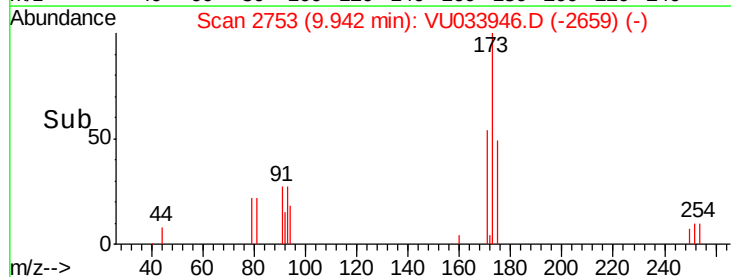
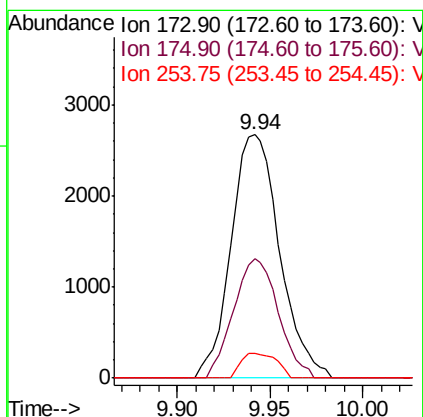
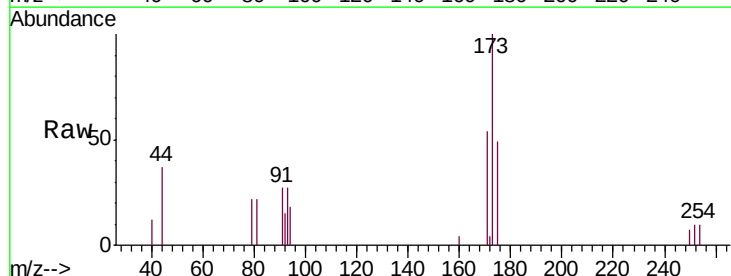
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.506

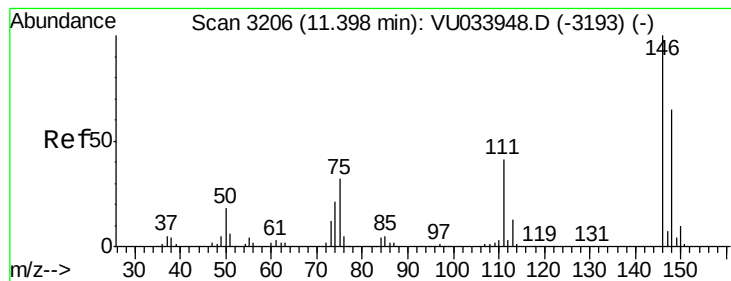
Tgt Ion: 75 Resp: 6667
 Ion Ratio Lower Upper
 75 100
 77 35.2 24.9 37.3



#61
 Bromoform
 Concen: 0.696 ug/L
 RT: 9.94 min Scan# 2753
 Delta R.T. 0.00 min
 Lab File: VU033946.D
 Acq: 26 Aug 2019 10:41

Tgt Ion: 173 Resp: 4859
 Ion Ratio Lower Upper
 173 100
 175 45.1 38.2 57.2
 254 7.5 8.4 12.6#





#62

1,3-Dichlorobenzene

Concen: 0.657 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. 0.00 min

Lab File: VU033946.D

Acq: 26 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.506

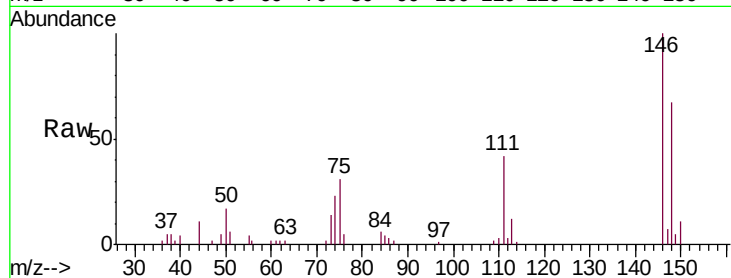
Tgt Ion:146 Resp: 18514

Ion Ratio Lower Upper

146 100

111 42.0 28.8 53.6

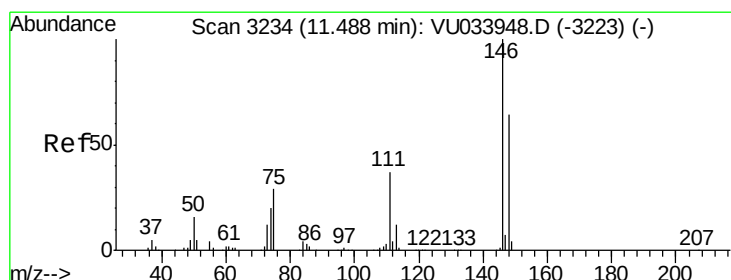
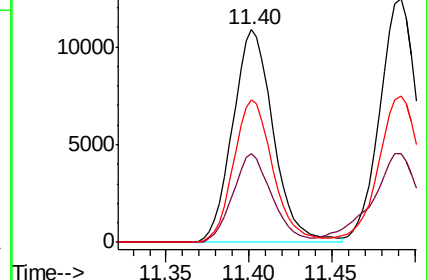
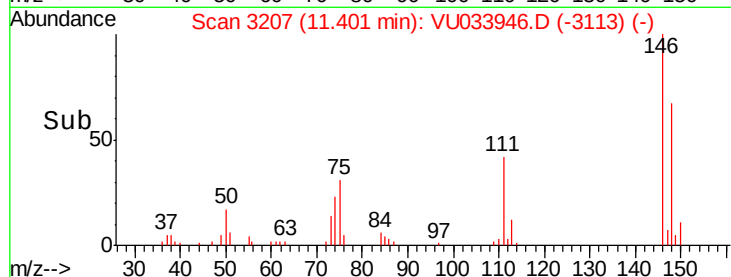
148 67.2 45.4 84.4



Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 0.720 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033946.D

Acq: 26 Aug 2019 10:41

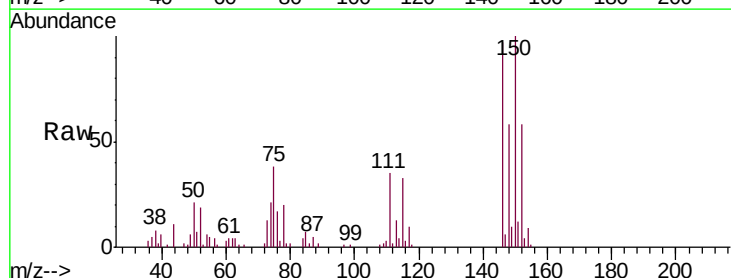
Tgt Ion:146 Resp: 20902

Ion Ratio Lower Upper

146 100

111 36.4 26.5 49.1

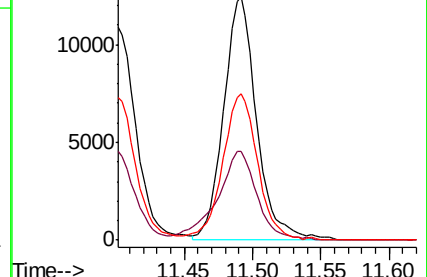
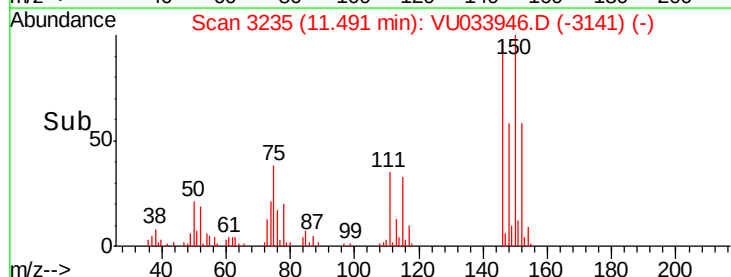
148 60.1 44.7 82.9

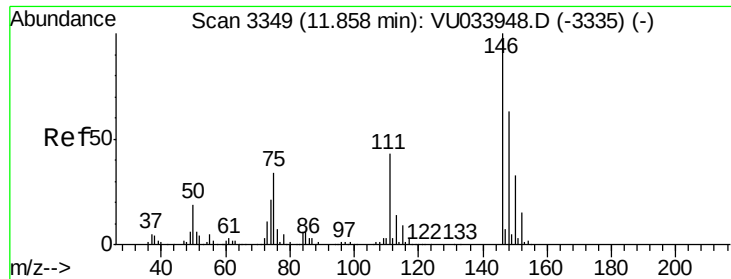


Abundance Ion 145.95 (145.65 to 146.65): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

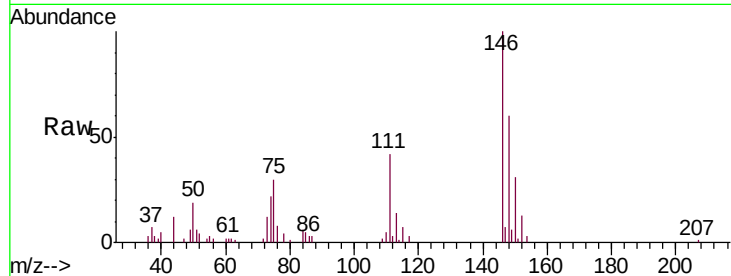




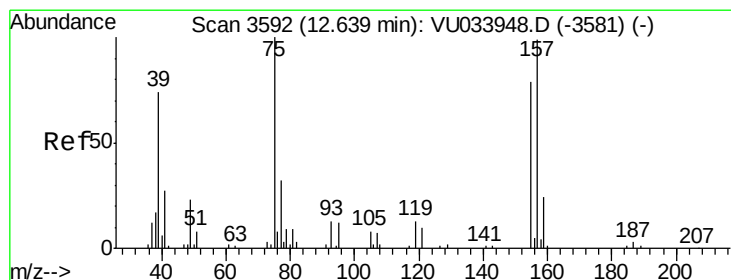
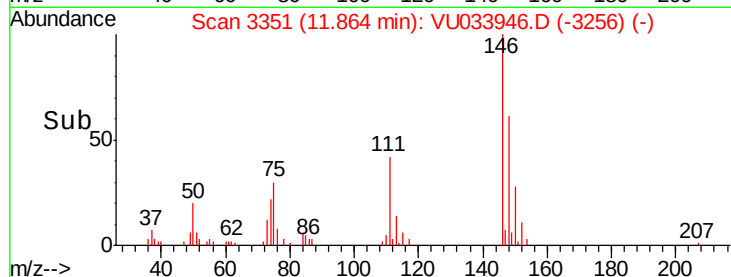
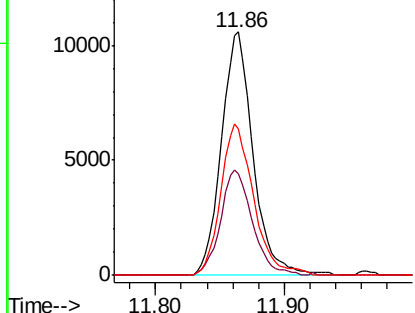
#65
 1,2-Dichlorobenzene
 Concen: 0.663 ug/L
 RT: 11.86 min Scan# 3351
 Delta R.T. 0.01 min
 Lab File: VU033946.D
 Acq: 26 Aug 2019 10:41

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.506

Tgt Ion: 146 Resp: 18019
 Ion Ratio Lower Upper
 146 100
 111 41.7 34.3 51.5
 148 60.0 50.5 75.7

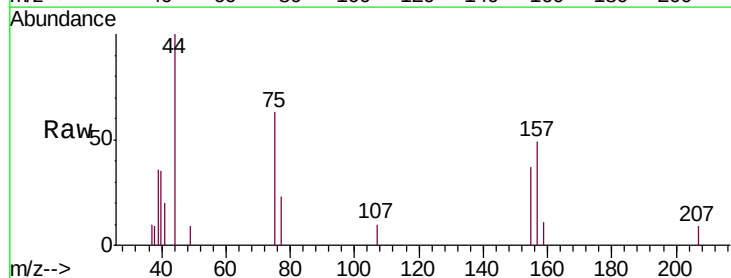


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

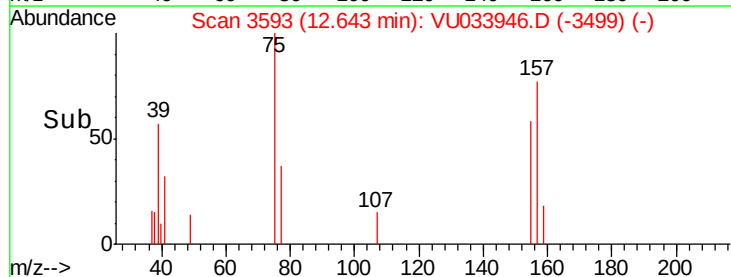
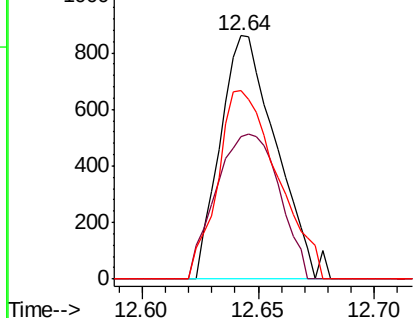


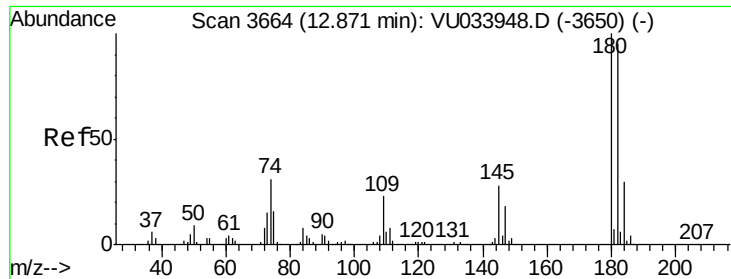
#66
 1,2-Dibromo-3-chloropropane
 Concen: 0.734 ug/L
 RT: 12.64 min Scan# 3593
 Delta R.T. 0.00 min
 Lab File: VU033946.D
 Acq: 26 Aug 2019 10:41

Tgt Ion: 75 Resp: 1436
 Ion Ratio Lower Upper
 75 100
 155 58.3 63.0 94.4#
 157 77.4 79.4 119.0#



Abundance Ion 75.05 (74.75 to 75.75): VU0
 Ion 154.95 (154.65 to 155.65): V
 Ion 156.90 (156.60 to 157.60): V

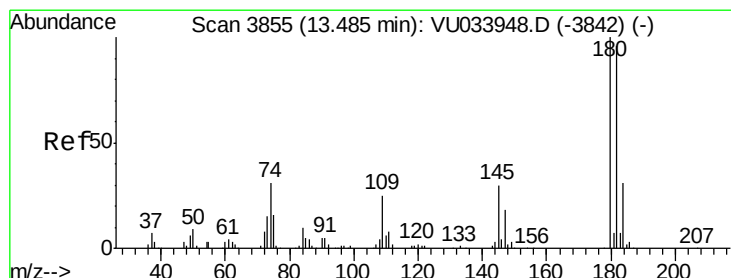
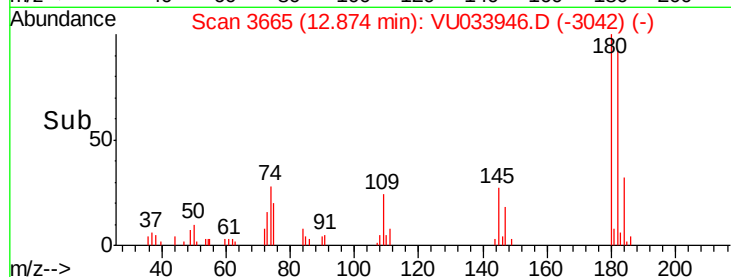
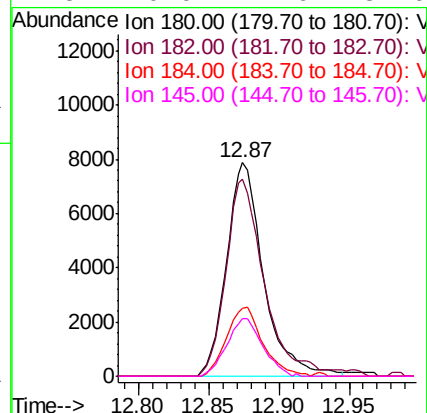
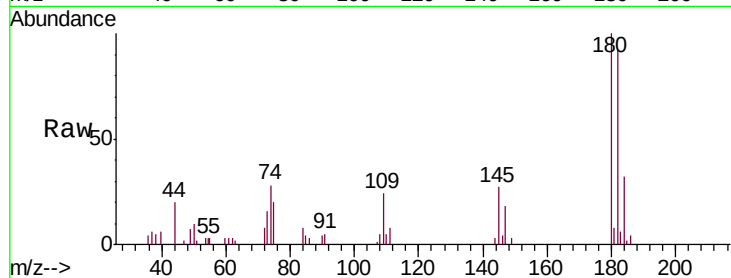




#67
 1,3,5-Trichlorobenzene
 Concen: 0.671 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: VU033946.D
 Acq: 26 Aug 2019 10:41

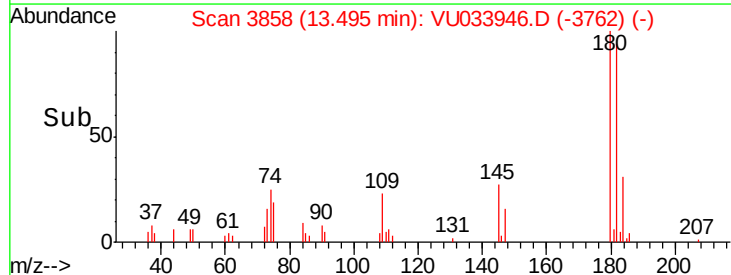
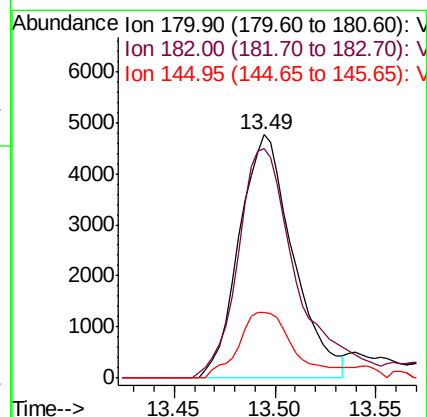
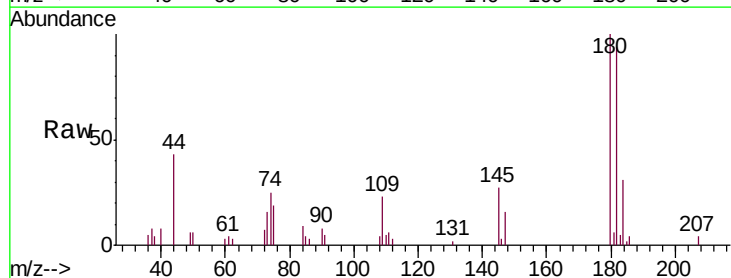
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD0.506

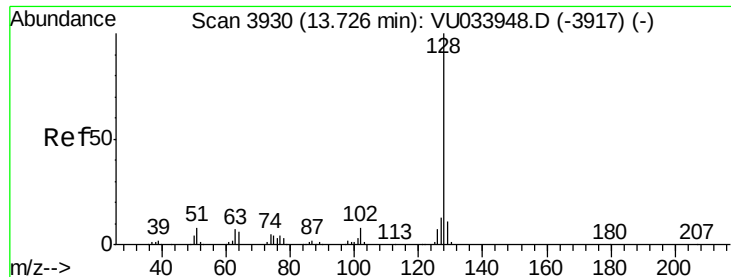
Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.1	76.9	115.3
184	31.5	24.0	36.0
145	26.0	22.6	34.0



#68
 1,2,4-trichlorobenzene
 Concen: 0.563 ug/L
 RT: 13.49 min Scan# 3858
 Delta R.T. 0.01 min
 Lab File: VU033946.D
 Acq: 26 Aug 2019 10:41

Tgt Ion	Ratio	Lower	Upper
180	100		
182	102.9	76.4	114.6
145	27.3	23.4	35.2





#69

Naphthalene

Concen: 0.520 ug/L

RT: 13.74 min Scan# 3933

Delta R.T. 0.01 min

Lab File: VU033946.D

Acq: 26 Aug 2019 10:41

Instrument :

MSVOA_U

ClientSampleId :

VSTD0.506

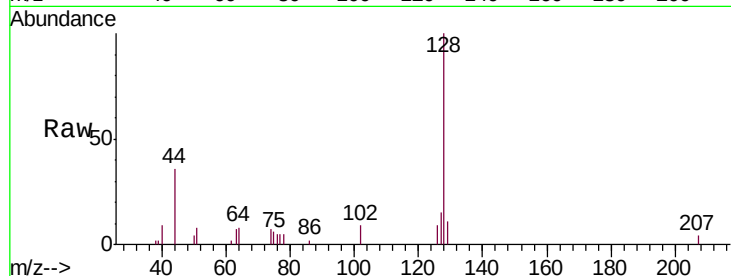
Tgt Ion:128 Resp: 12194

Ion Ratio Lower Upper

128 100

129 9.8 8.6 12.8

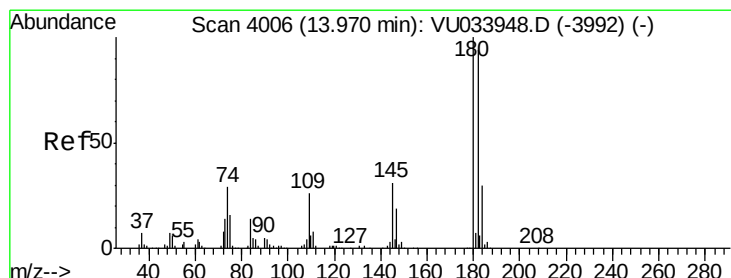
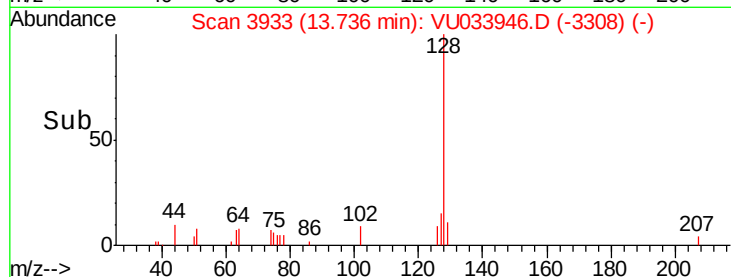
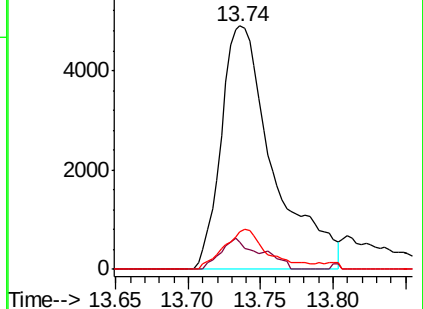
127 14.0 10.3 15.5



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.587 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. 0.00 min

Lab File: VU033946.D

Acq: 26 Aug 2019 10:41

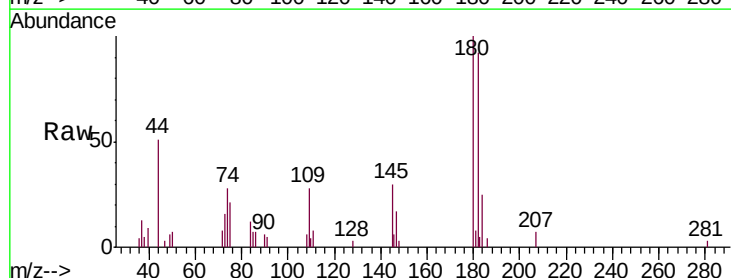
Tgt Ion:180 Resp: 8844

Ion Ratio Lower Upper

180 100

182 88.0 78.6 117.8

145 29.1 24.7 37.1



Abundance Ion 179.90 (179.60 to 180.60): V

Ion 181.90 (181.60 to 182.60): V

Ion 144.95 (144.65 to 145.65): V

