

Data File : VU032255.D
Acq On : 23 May 2019 06:22
Operator : JC/SP
Sample : VSTDCCC005EC
Misc : 25.0mL/MSVOA_U/WATER
ALS Vial : 45 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Quant Time: May 23 07:26:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMUTR052219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Thu May 23 07:22:00 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.88	114	378354	5.00	ug/L	0.00
28) Chlorobenzene-d5	9.09	117	377899	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.48	152	172332	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.40	65	96432	4.54	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	90.80%
7) Chloroethane-d5	1.68	69	92621	4.67	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	93.40%
11) 1,1-Dichloroethene-d2	2.27	63	185036	4.73	ug/L	0.00
Spiked Amount	5.000	Range	60 - 125	Recovery	=	94.60%
20) 2-Butanone-d5	4.20	46	302380	50.45	ug/L	0.00
Spiked Amount	50.000	Range	40 - 130	Recovery	=	100.90%
24) Chloroform-d	4.64	84	263307	4.85	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.00%
26) 1,2-Dichloroethane-d4	5.31	65	141150	4.91	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	98.20%
32) Benzene-d6	5.33	84	521262	4.86	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	97.20%
36) 1,2-Dichloropropane-d6	6.33	67	168095	4.82	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	96.40%
41) Toluene-d8	7.56	98	516358	4.96	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	99.20%
43) trans-1,3-Dichloropropene-	7.85	79	62448	4.66	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	93.20%
46) 2-Hexanone-d5	8.31	63	272839	54.15	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	108.30%
57) 1,1,2,2-Tetrachloroethane-	10.43	84	173400	5.01	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	100.20%
64) 1,2-Dichlorobenzene-d4	11.86	152	232806	4.90	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	98.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.21	85	77177	4.772	ug/L 99
3) Chloromethane	1.32	50	74961	4.622	ug/L 100
5) Vinyl chloride	1.40	62	77999	4.763	ug/L 99
6) Bromomethane	1.63	94	49469	4.768	ug/L 95
8) Chloroethane	1.70	64	47490	4.568	ug/L 97
9) Trichlorofluoromethane	1.88	101	106833	5.032	ug/L 97
10) 1,1,2-Trichloro-1,2,2-trif	2.29	101	63402	4.733	ug/L 99
12) 1,1-Dichloroethene	2.28	96	68610	5.096	ug/L 85
13) Acetone	2.34	43	88296	47.549	ug/L 98
14) Carbon disulfide	2.47	76	200130	4.797	ug/L 100
15) Methyl Acetate	2.62	43	23371	4.289	ug/L 93
16) Methylene chloride	2.70	84	72528	4.038	ug/L 95
17) Methyl tert-butyl Ether	3.00	73	151737	4.998	ug/L 100
18) trans-1,2-Dichloroethene	2.98	96	71726	4.963	ug/L 95
19) 1,1-Dichloroethane	3.44	63	112768	5.052	ug/L 97
21) 2-Butanone	4.29	43	138219	49.339	ug/L 93
22) cis-1,2-Dichloroethene	4.22	96	71229	5.049	ug/L 96

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Quant Title : TRACE VOA SOM01.0
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.55	128	32736	5.251	ug/L	91
25) Chloroform	4.67	83	118827	4.929	ug/L	95
27) 1,2-Dichloroethane	5.41	62	68516	4.884	ug/L	97
29) 1,1,1-Trichloroethane	4.91	97	98324	5.013	ug/L	99
30) Cyclohexane	4.98	56	84406	4.603	ug/L	100
31) Carbon tetrachloride	5.13	117	81997	4.745	ug/L	96
33) Benzene	5.38	78	266940	5.222	ug/L	100
34) Trichloroethene	6.18	95	65197	4.752	ug/L	90
35) Methylcyclohexane	6.41	83	91047	4.505	ug/L	99
37) 1,2-Dichloropropane	6.43	63	63480	5.158	ug/L #	93
38) Bromodichloromethane	6.75	83	79923	4.997	ug/L	99
39) cis-1,3-Dichloropropene	7.27	75	80123	4.572	ug/L	97
40) 4-Methyl-2-pentanone	7.46	43	312234	50.188	ug/L	100
42) Toluene	7.63	91	284474	5.237	ug/L	98
44) trans-1,3-Dichloropropene	7.88	75	65399	4.749	ug/L	96
45) 1,1,2-Trichloroethane	8.06	97	47454	4.993	ug/L	93
47) Tetrachloroethene	8.22	164	55695	4.918	ug/L	93
48) 2-Hexanone	8.36	43	246225	51.600	ug/L	97
49) Dibromochloromethane	8.47	129	56839	5.254	ug/L	96
50) 1,2-Dibromoethane	8.59	107	45923	5.125	ug/L	96
51) Chlorobenzene	9.12	112	178016	5.121	ug/L	98
52) Ethylbenzene	9.25	91	271167	4.960	ug/L	96
53) m,p-Xylene	9.37	106	101618	4.998	ug/L	99
54) o-Xylene	9.77	106	102122	5.027	ug/L	95
55) Styrene	9.79	104	172384	5.071	ug/L	100
56) Isopropylbenzene	10.16	105	260357	5.069	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.45	83	57218	4.998	ug/L	100
59) 1,2,3-Trichloropropane	10.49	75	40908	5.104	ug/L	99
61) Bromoform	9.95	173	32207	5.218	ug/L	97
62) 1,3-Dichlorobenzene	11.41	146	129282	5.077	ug/L	97
63) 1,4-Dichlorobenzene	11.50	146	131534	4.925	ug/L	97
65) 1,2-Dichlorobenzene	11.87	146	132784	5.141	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.65	75	8135	4.878	ug/L	96
67) 1,3,5-Trichlorobenzene	12.88	180	96240	4.967	ug/L	98
68) 1,2,4-trichlorobenzene	13.50	180	69545	5.091	ug/L	99
69) Naphthalene	13.74	128	100793	4.823	ug/L #	92
70) 1,2,3-Trichlorobenzene	13.98	180	70838	4.898	ug/L	96

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

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MSVOA_U
ClientSampleId :
VSTD00512

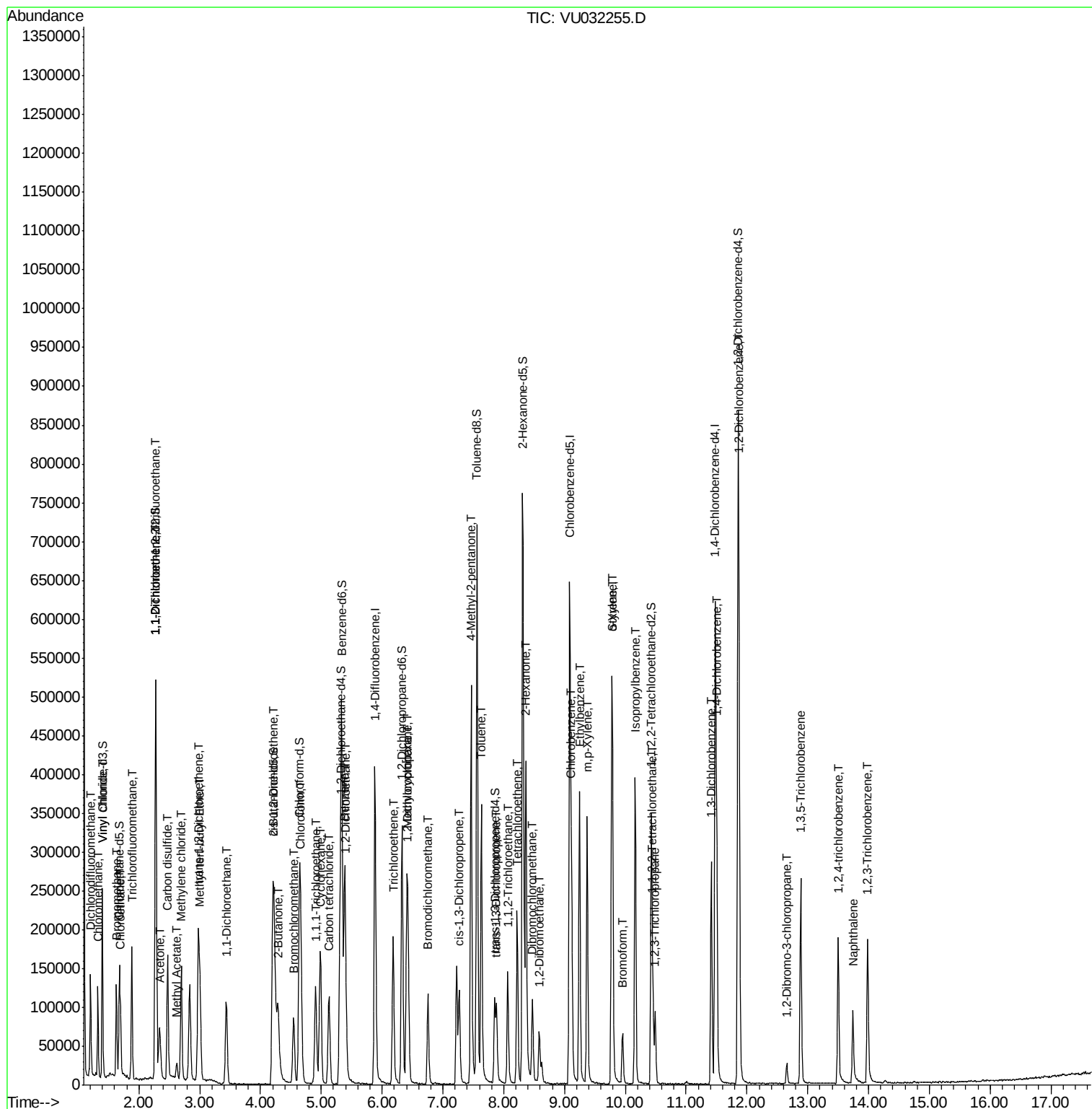
Quant Time: May 23 07:26:01 2019

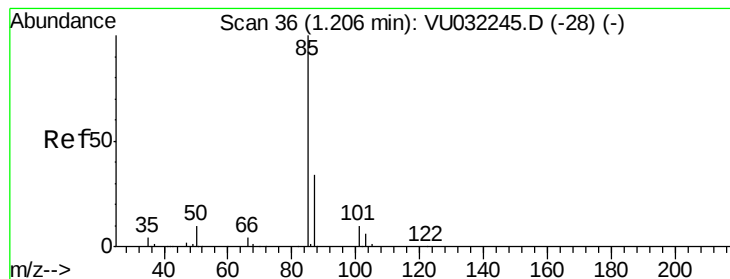
Quant Method : Z:\V0ASRV\HPCHEM1\MSV0A_U\METHOD\SOMUTR052219WMA.M

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#2

Dichlorodifluoromethane

Concen: 4.772 ug/L

RT: 1.21 min Scan# 36

Delta R.T. 0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

Instrument :

MSVOA_U

ClientSampleId :

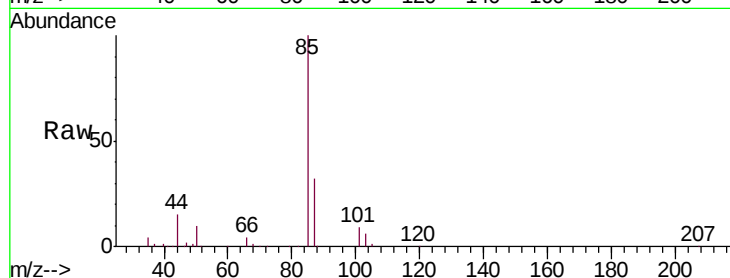
VSTD00512

Tgt Ion: 85 Resp: 77177

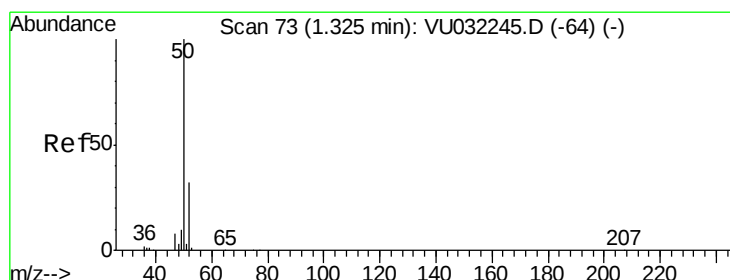
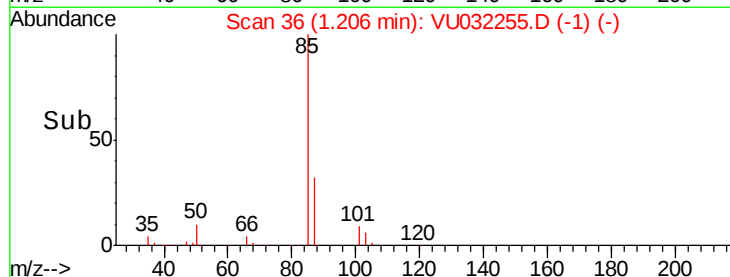
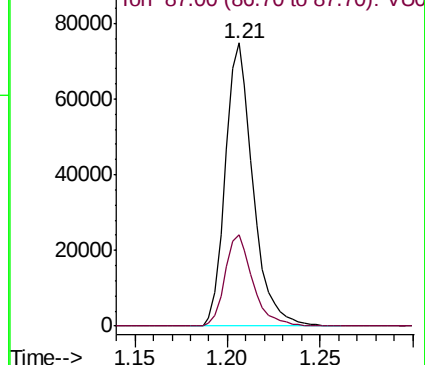
Ion Ratio Lower Upper

85 100

87 32.6 26.6 39.8



Abundance Ion 85.00 (84.70 to 85.70): VU032245.D (-28) (-)



#3

Chloromethane

Concen: 4.622 ug/L

RT: 1.32 min Scan# 73

Delta R.T. 0.00 min

Lab File: VU032255.D

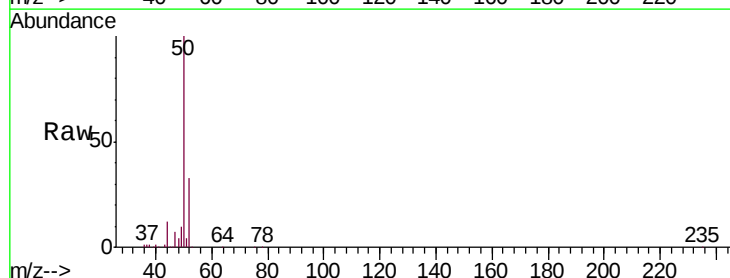
Acq: 23 May 2019 06:22

Tgt Ion: 50 Resp: 74961

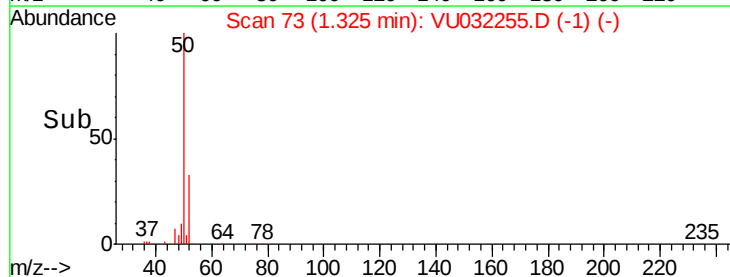
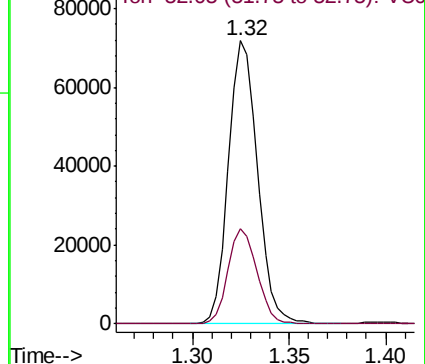
Ion Ratio Lower Upper

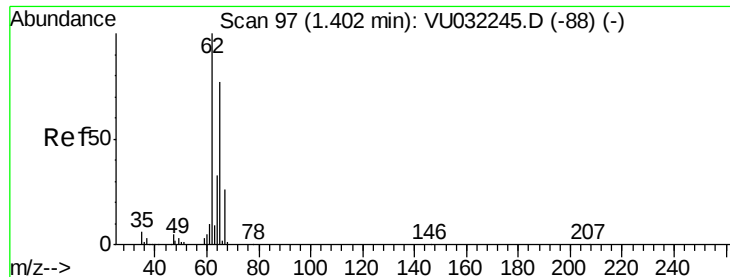
50 100

52 33.4 23.3 43.3



Abundance Ion 50.05 (49.75 to 50.75): VU032245.D (-64) (-)





#5

Vinyl chloride

Concen: 4.763 ug/L

RT: 1.40 min Scan# 97

Delta R.T. 0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

Instrument :

MSVOA_U

ClientSampleId :

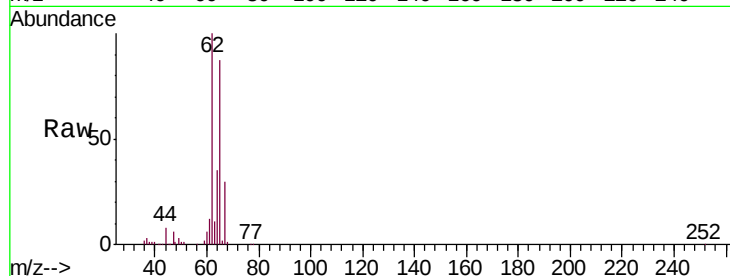
VSTD00512

Tgt Ion: 62 Resp: 77999

Ion Ratio Lower Upper

62 100

64 35.2 24.4 45.2



Abundance Ion 62.00 (61.70 to 62.70): VU032245.D (-88) (-)

Ion 64.10 (63.80 to 64.80): VU032245.D (-88) (-)

1.40

80000

60000

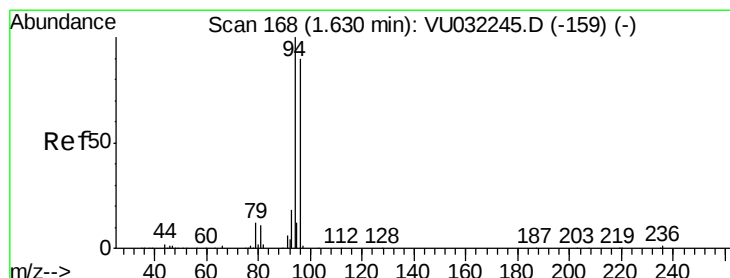
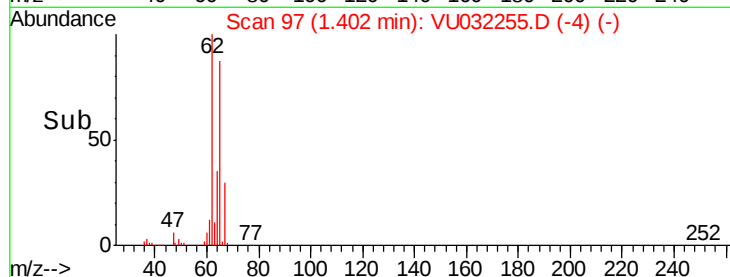
40000

20000

0

1.35 1.40 1.45 1.50

Time-->



#6

Bromomethane

Concen: 4.768 ug/L

RT: 1.63 min Scan# 168

Delta R.T. 0.00 min

Lab File: VU032255.D

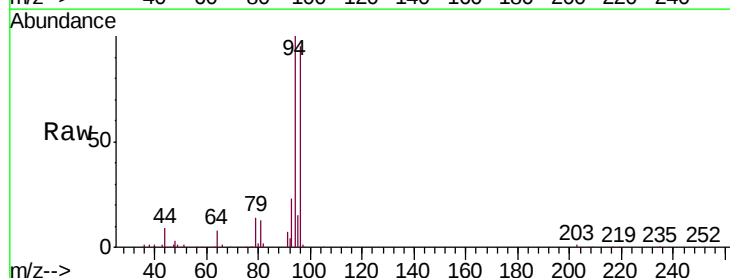
Acq: 23 May 2019 06:22

Tgt Ion: 94 Resp: 49469

Ion Ratio Lower Upper

94 100

96 94.8 63.0 117.0



Abundance Ion 94.00 (93.70 to 94.70): VU032245.D (-159) (-)

Ion 96.00 (95.70 to 96.70): VU032245.D (-159) (-)

1.63

40000

30000

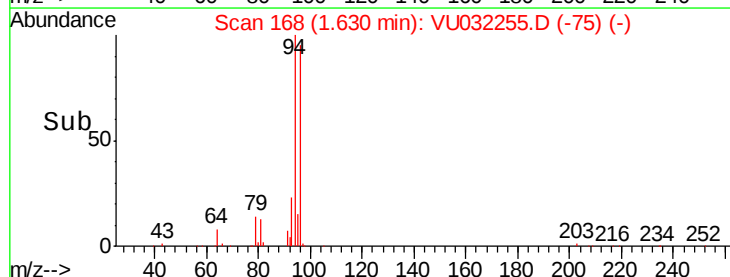
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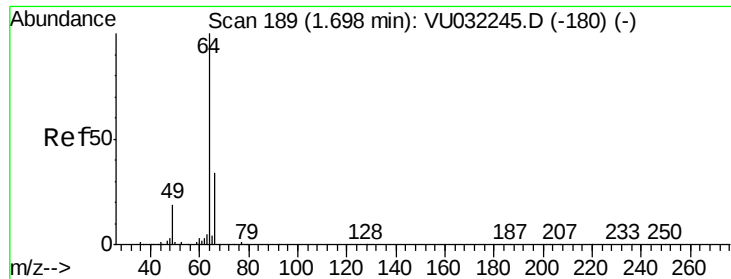
10000

0

1.55 1.60 1.65 1.70 1.75

Time-->

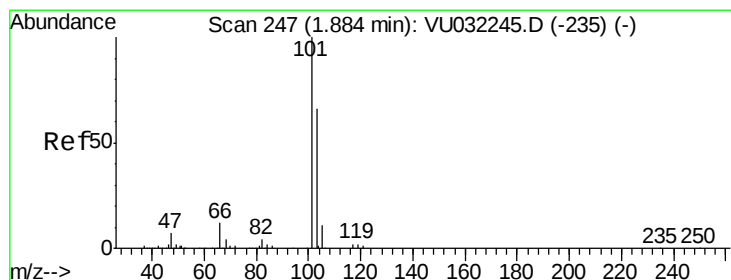
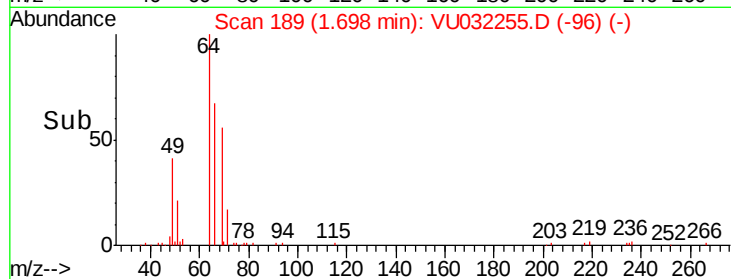
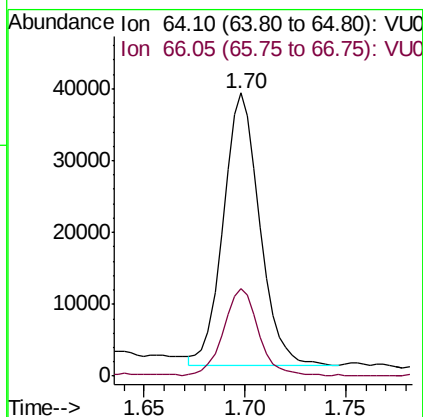
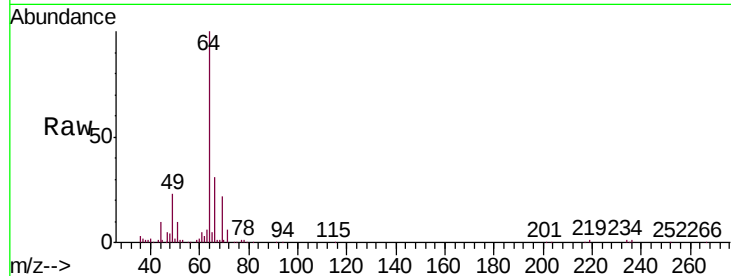




#8
Chloroethane
Concen: 4.568 ug/L
RT: 1.70 min Scan# 189
Delta R.T. 0.00 min
Lab File: VU032255.D
Acq: 23 May 2019 06:22

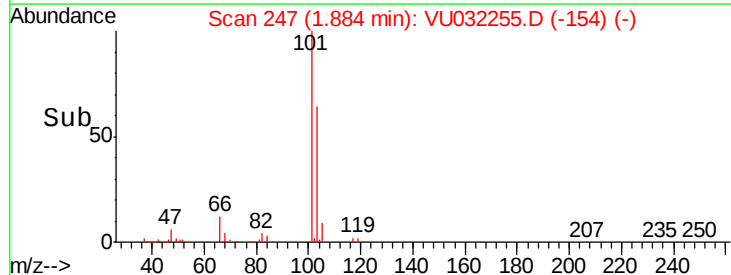
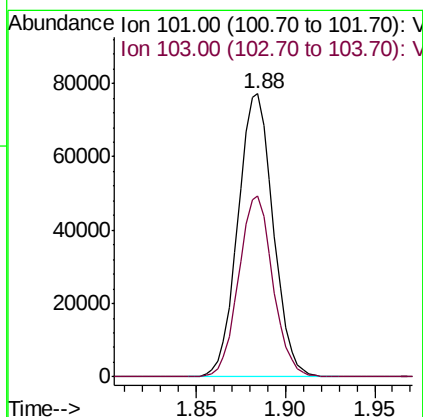
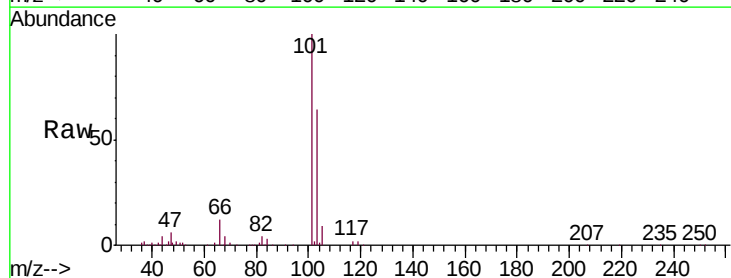
Instrument :
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VSTD00512

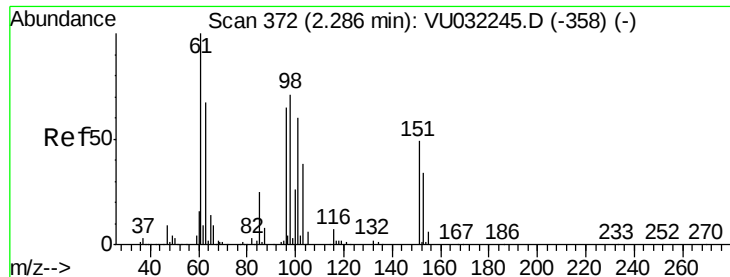
Tgt Ion: 64 Resp: 47490
Ion Ratio Lower Upper
64 100
66 31.0 23.1 42.9



#9
Trichlorofluoromethane
Concen: 5.032 ug/L
RT: 1.88 min Scan# 247
Delta R.T. 0.00 min
Lab File: VU032255.D
Acq: 23 May 2019 06:22

Tgt Ion: 101 Resp: 106833
Ion Ratio Lower Upper
101 100
103 62.2 51.9 77.9





#10

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

Concen: 4.733 ug/L

RT: 2.29 min Scan# 372

Delta R.T. 0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

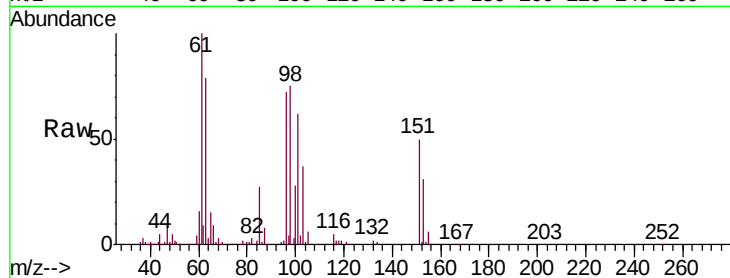
Tgt Ion: 101 Resp: 63402

Ion Ratio Lower Upper

101 100

85 41.3 34.2 51.4

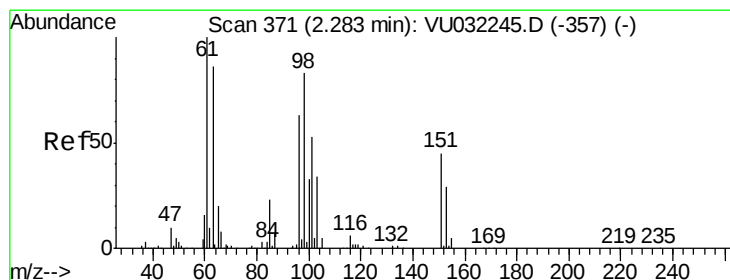
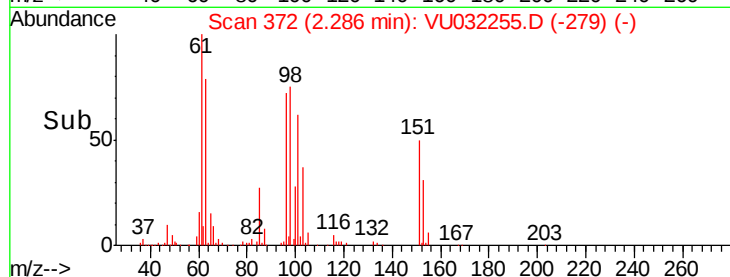
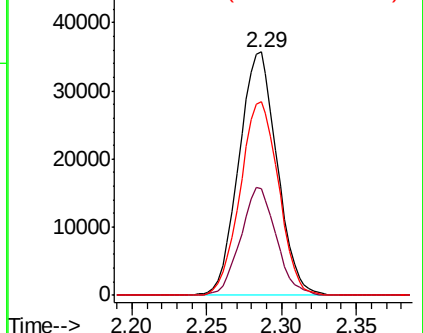
151 79.9 64.4 96.6



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 85.00 (84.70 to 85.70): VU0

Ion 151.00 (150.70 to 151.70): V



#12

1,1-Dichloroethene

Concen: 5.096 ug/L

RT: 2.28 min Scan# 371

Delta R.T. 0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

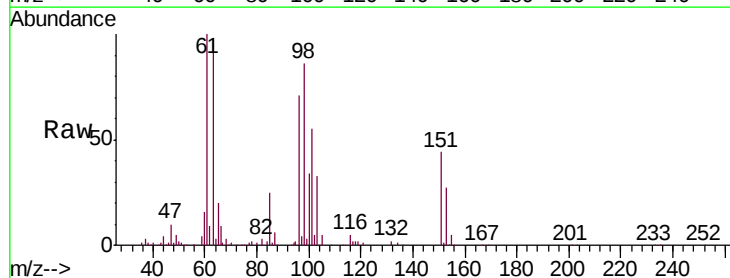
Tgt Ion: 96 Resp: 68610

Ion Ratio Lower Upper

96 100

61 140.5 113.8 211.3

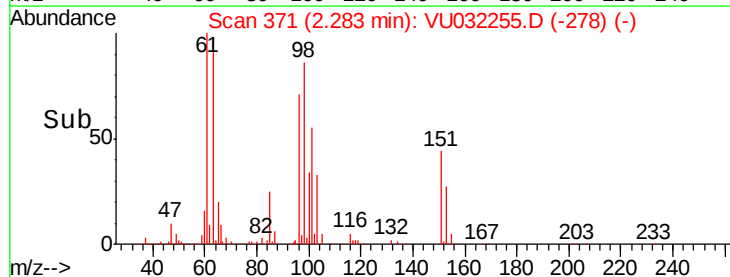
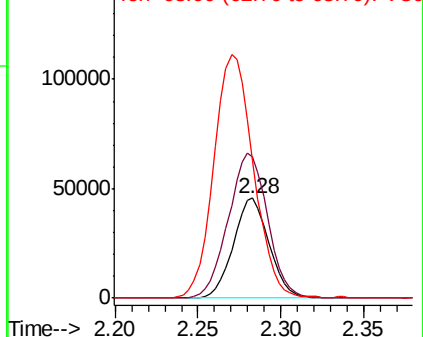
63 137.3 108.8 202.2

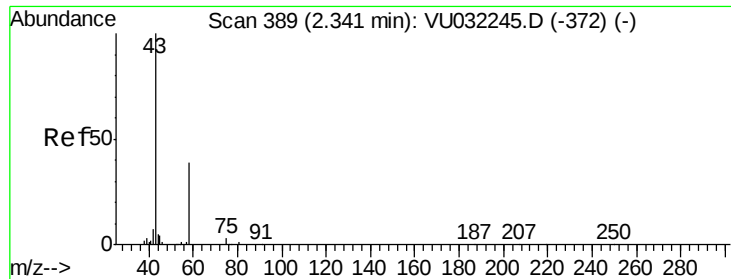


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.05 (60.75 to 61.75): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 47.549 ug/L

RT: 2.34 min Scan# 389

Delta R.T. 0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

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ClientSampleId :

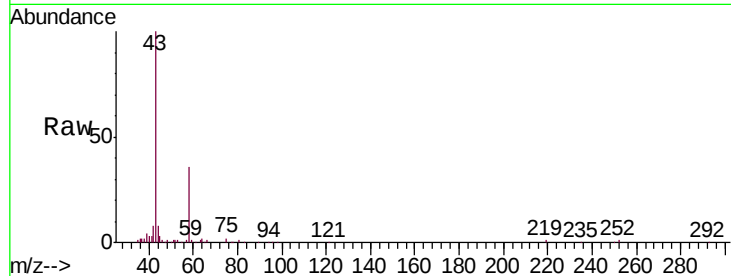
VSTD00512

Tgt Ion: 43 Resp: 88296

Ion Ratio Lower Upper

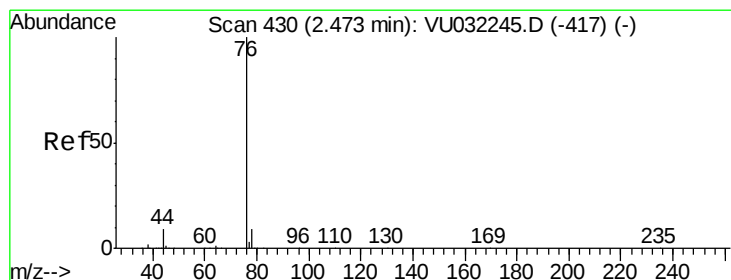
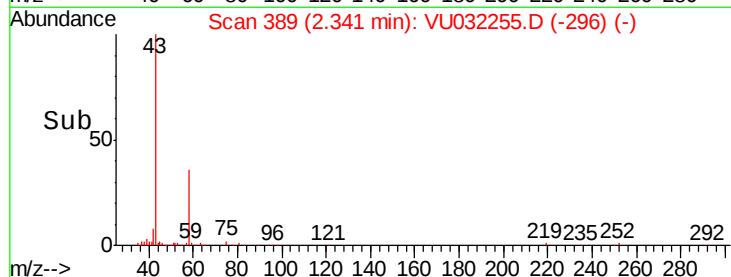
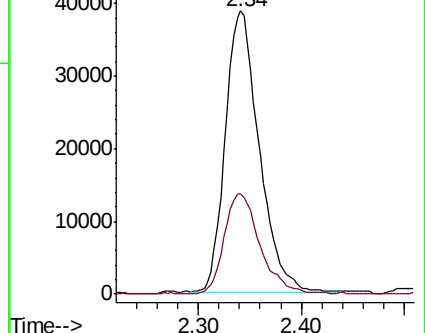
43 100

58 37.7 0.0 72.6



Abundance Ion 43.05 (42.75 to 43.75): VU032245.D (-372) (-)

Ion 58.05 (57.75 to 58.75): VU032245.D (-372) (-)



#14

Carbon disulfide

Concen: 4.797 ug/L

RT: 2.47 min Scan# 430

Delta R.T. 0.00 min

Lab File: VU032255.D

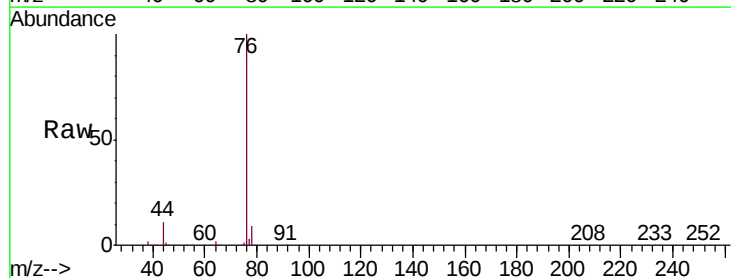
Acq: 23 May 2019 06:22

Tgt Ion: 76 Resp: 200130

Ion Ratio Lower Upper

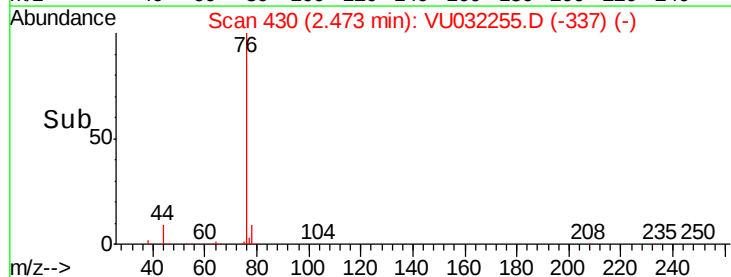
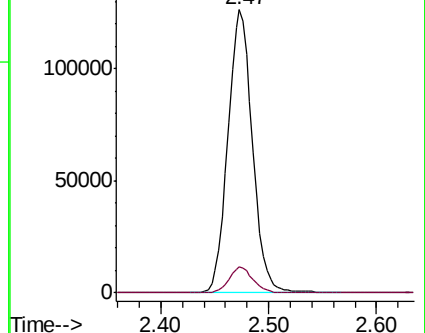
76 100

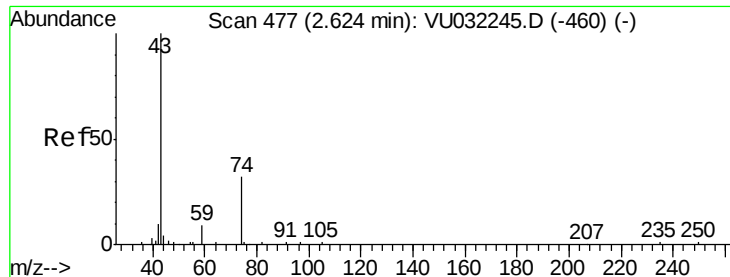
78 9.2 7.5 11.3



Abundance Ion 76.05 (75.75 to 76.75): VU032245.D (-417) (-)

Ion 78.00 (77.70 to 78.70): VU032245.D (-417) (-)





#15

Methyl Acetate

Concen: 4.289 ug/L

RT: 2.62 min Scan# 476

Delta R.T. -0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

Instrument :

MSVOA_U

ClientSampleId :

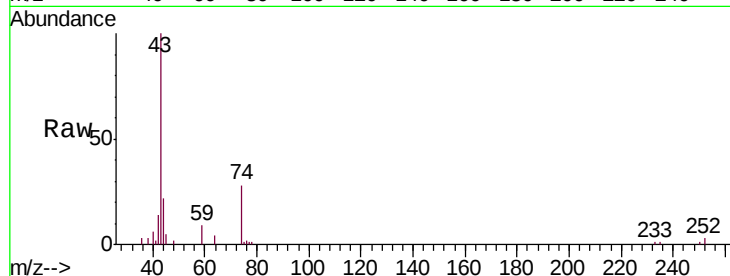
VSTD00512

Tgt Ion: 43 Resp: 23371

Ion Ratio Lower Upper

43 100

74 30.2 27.3 40.9



Abundance Ion 43.05 (42.75 to 43.75): VU032245.D (-460) (-)

Ion 74.05 (73.75 to 74.75): VU032245.D (-460) (-)

2.62

15000

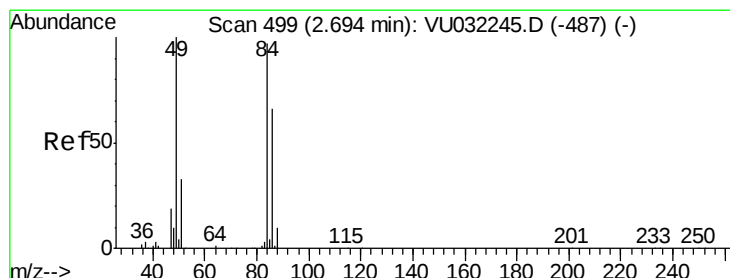
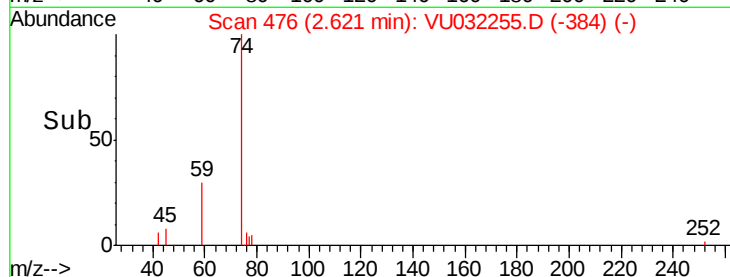
10000

5000

0

2.55 2.60 2.65 2.70

Time-->



#16

Methylene chloride

Concen: 4.038 ug/L

RT: 2.70 min Scan# 500

Delta R.T. 0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

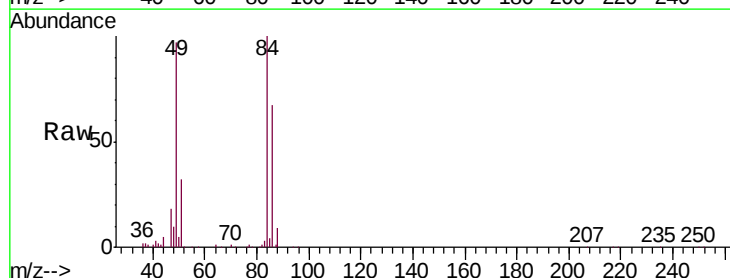
Tgt Ion: 84 Resp: 72528

Ion Ratio Lower Upper

84 100

86 66.6 43.6 81.0

49 96.6 71.1 132.1



Abundance Ion 84.05 (83.75 to 84.75): VU032245.D (-487) (-)

Ion 86.00 (85.70 to 86.70): VU032245.D (-487) (-)

Ion 49.10 (48.80 to 49.80): VU032245.D (-487) (-)

2.70

50000

40000

30000

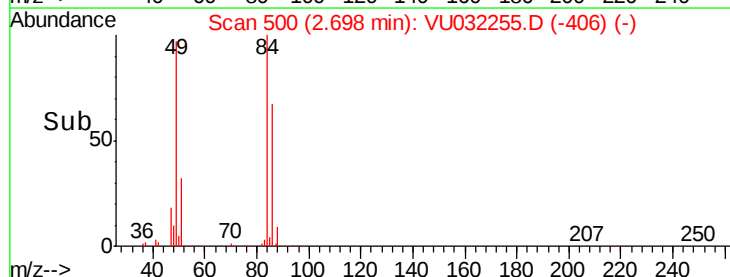
20000

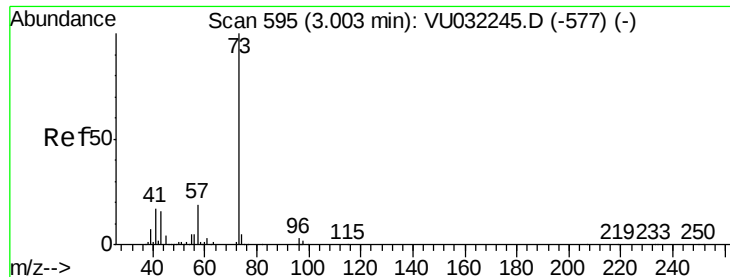
10000

0

2.60 2.65 2.70 2.75 2.80

Time-->



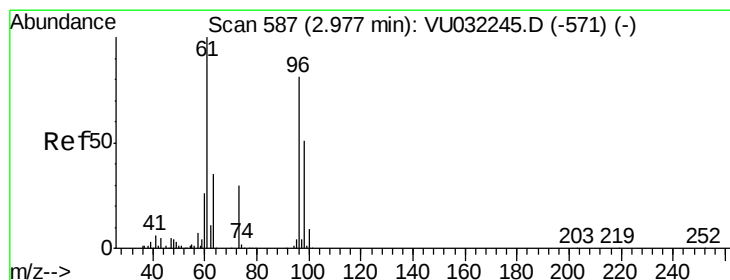
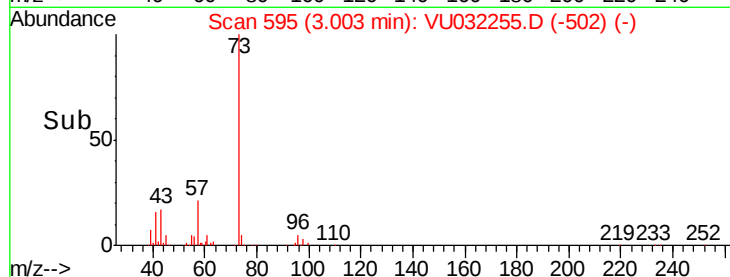
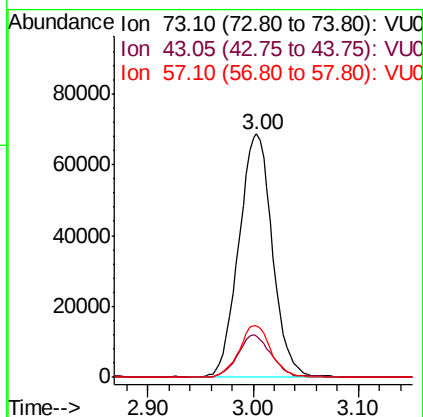
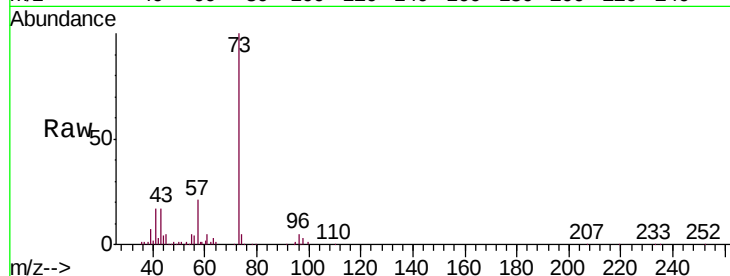


#17

Methyl tert-butyl Ether
 Concen: 4.998 ug/L
 RT: 3.00 min Scan# 595
 Delta R.T. 0.00 min
 Lab File: VU032255.D
 Acq: 23 May 2019 06:22

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

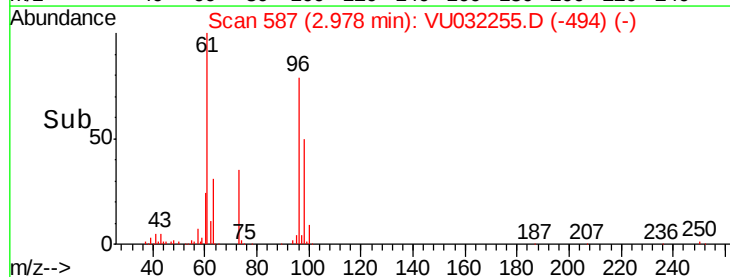
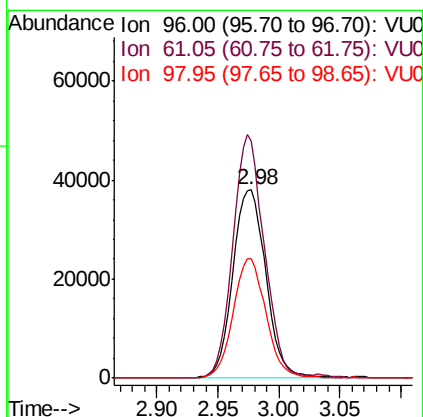
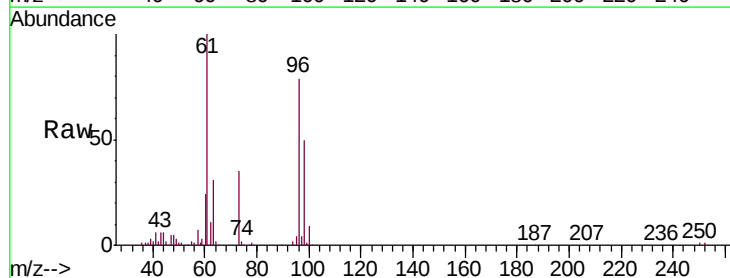
Tgt Ion:	73	Resp:	151737
Ion	Ratio	Lower	Upper
73	100		
43	17.5	13.8	20.6
57	20.4	16.2	24.4

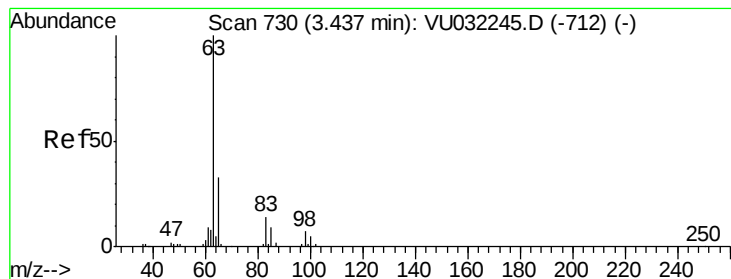


#18

trans-1,2-Dichloroethene
 Concen: 4.963 ug/L
 RT: 2.98 min Scan# 587
 Delta R.T. 0.00 min
 Lab File: VU032255.D
 Acq: 23 May 2019 06:22

Tgt Ion:	96	Resp:	71726
Ion	Ratio	Lower	Upper
96	100		
61	126.5	90.6	168.3
98	63.5	49.5	91.9





#19

1,1-Dichloroethane

Concen: 5.052 ug/L

RT: 3.44 min Scan# 730

Delta R.T. 0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

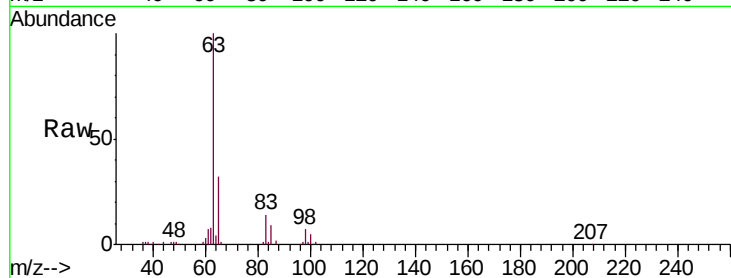
Tgt Ion: 63 Resp: 112768

Ion Ratio Lower Upper

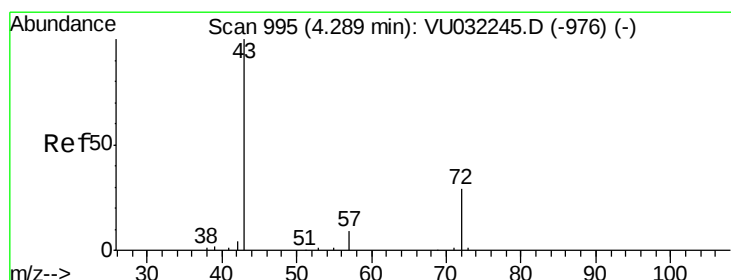
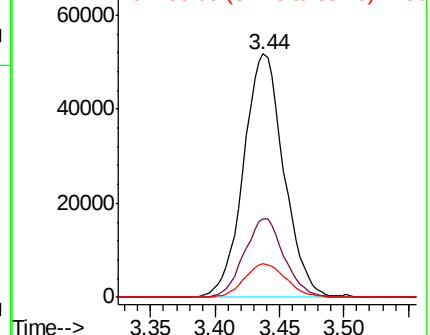
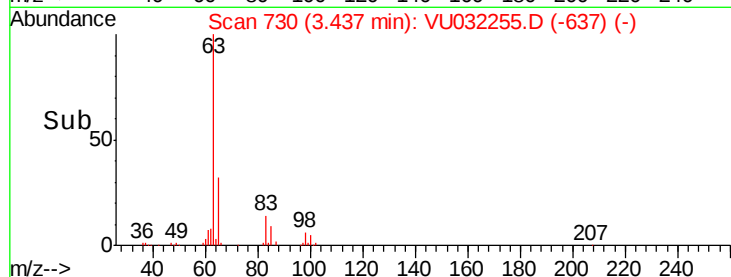
63 100

65 32.4 23.5 43.7

83 13.9 8.8 16.3



Abundance Ion 63.10 (62.80 to 63.80): VU032255.D (-637) (-)



#21

2-Butanone

Concen: 49.339 ug/L

RT: 4.29 min Scan# 995

Delta R.T. 0.00 min

Lab File: VU032255.D

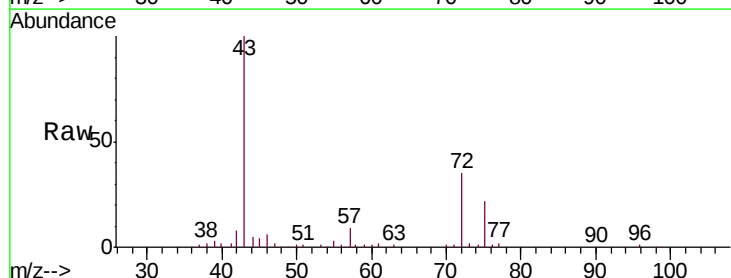
Acq: 23 May 2019 06:22

Tgt Ion: 43 Resp: 138219

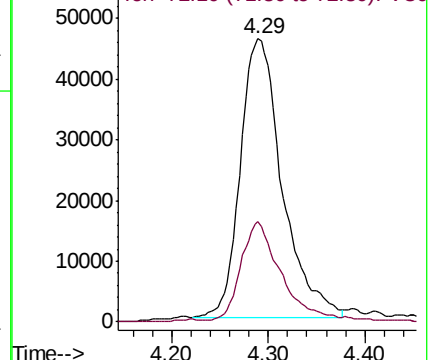
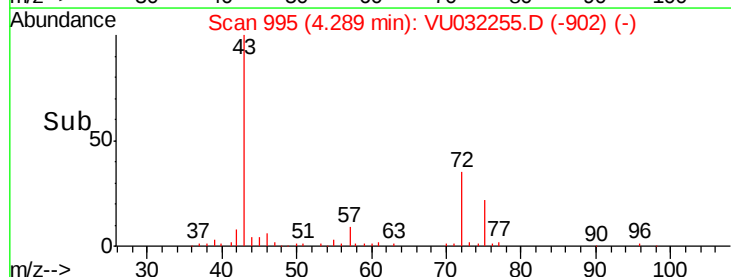
Ion Ratio Lower Upper

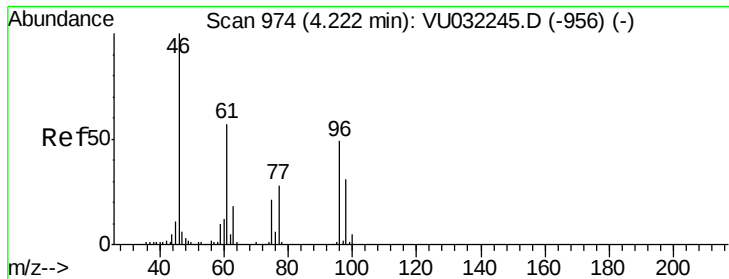
43 100

72 34.3 15.2 45.6



Abundance Ion 43.05 (42.75 to 43.75): VU032255.D (-902) (-)



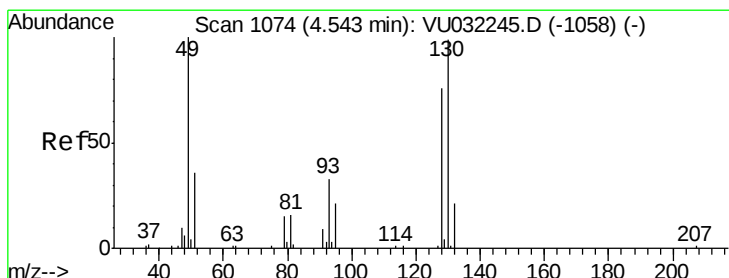
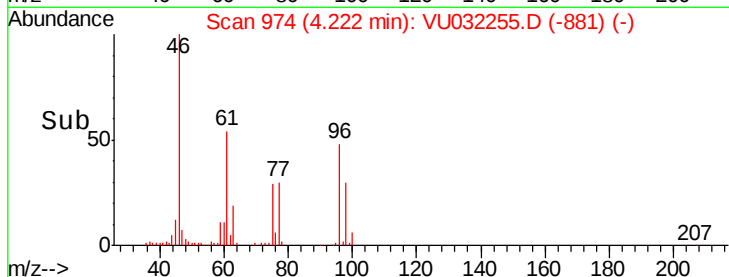
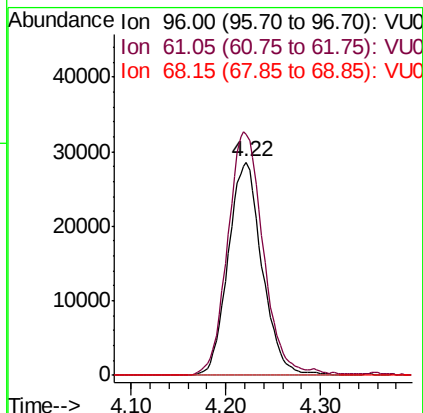
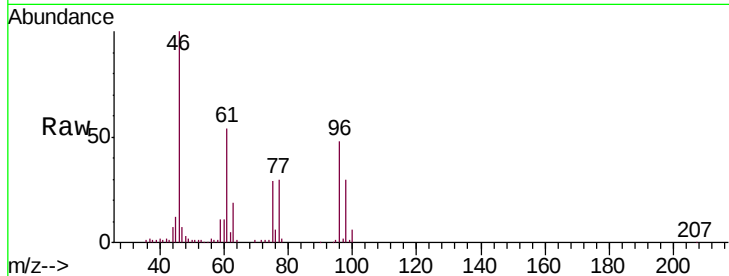


#22

cis-1,2-Dichloroethene
 Concen: 5.049 ug/L
 RT: 4.22 min Scan# 974
 Delta R.T. 0.00 min
 Lab File: VU032255.D
 Acq: 23 May 2019 06:22

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

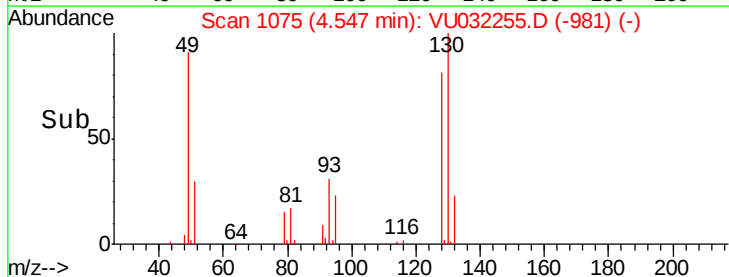
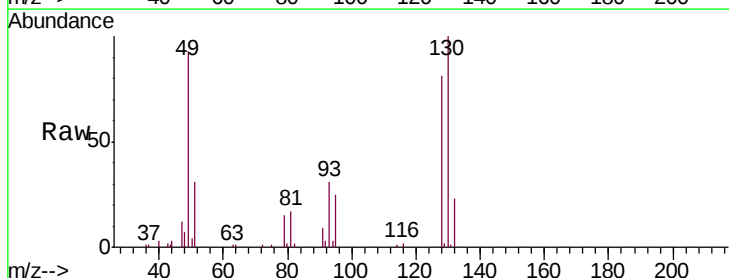
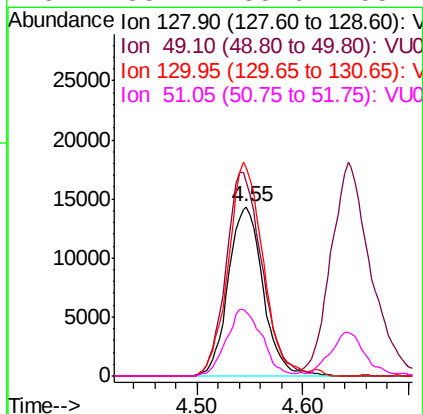
Tgt Ion: 96 Resp: 71229
 Ion Ratio Lower Upper
 96 100
 61 113.4 82.5 153.1
 68 0.0 0.0 0.0

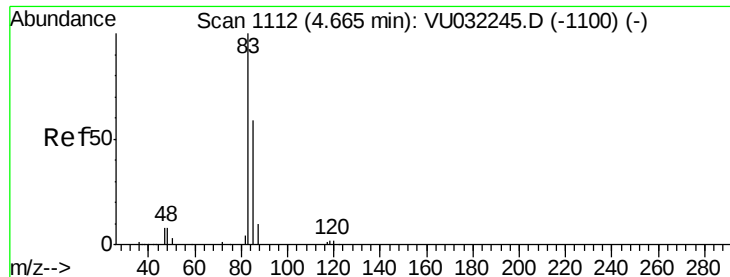


#23

Bromochloromethane
 Concen: 5.251 ug/L
 RT: 4.55 min Scan# 1075
 Delta R.T. 0.00 min
 Lab File: VU032255.D
 Acq: 23 May 2019 06:22

Tgt Ion: 128 Resp: 32736
 Ion Ratio Lower Upper
 128 100
 49 114.5 93.9 174.3
 130 123.1 85.3 158.3
 51 38.1 35.6 53.4





#25

Chloroform

Concen: 4.929 ug/L

RT: 4.67 min Scan# 1113

Delta R.T. 0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

Instrument :

MSVOA_U

ClientSampleId :

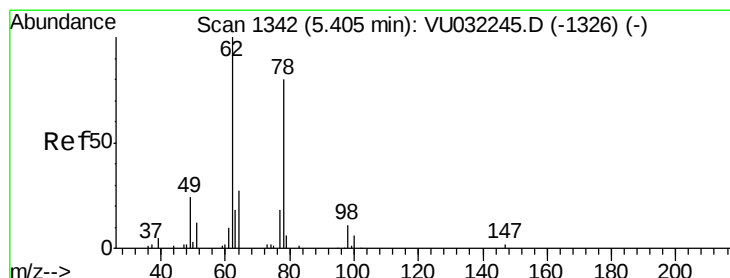
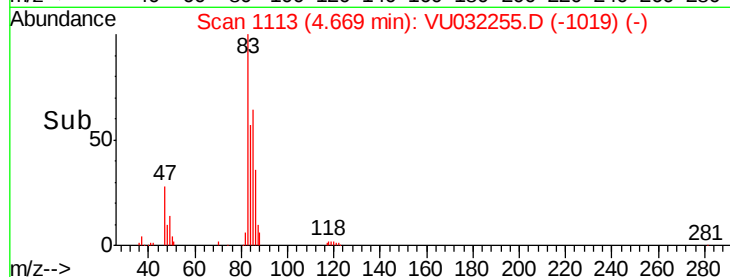
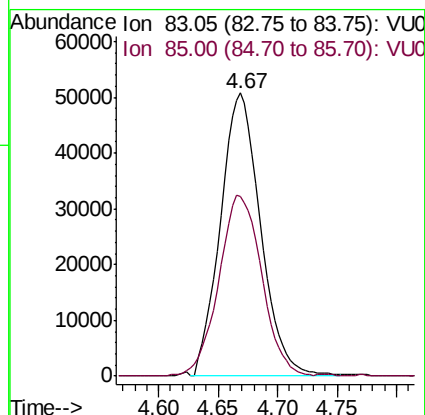
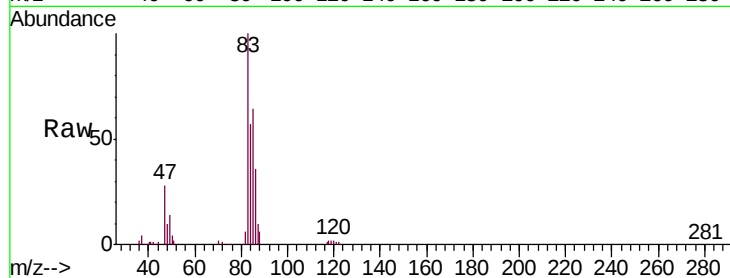
VSTD00512

Tgt Ion: 83 Resp: 118827

Ion Ratio Lower Upper

83 100

85 63.6 41.6 77.3



#27

1,2-Dichloroethane

Concen: 4.884 ug/L

RT: 5.41 min Scan# 1342

Delta R.T. 0.00 min

Lab File: VU032255.D

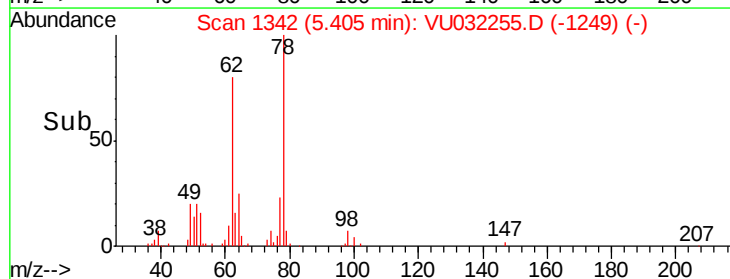
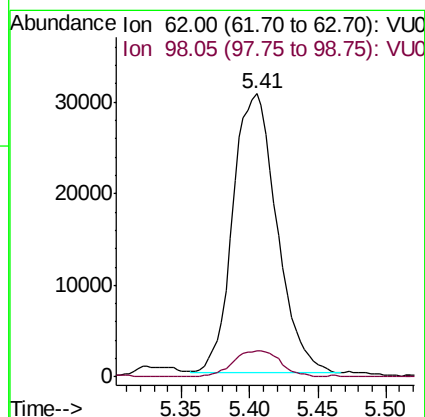
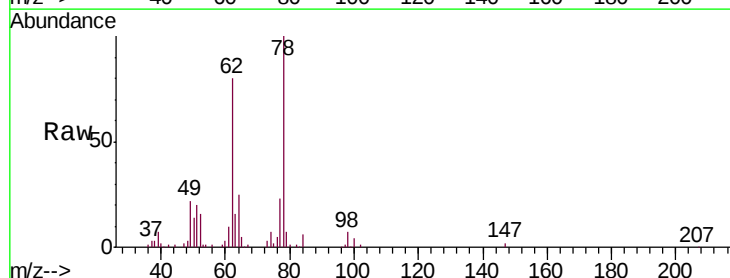
Acq: 23 May 2019 06:22

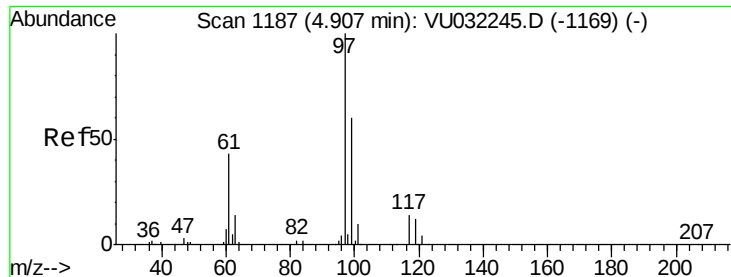
Tgt Ion: 62 Resp: 68516

Ion Ratio Lower Upper

62 100

98 9.0 8.2 12.2

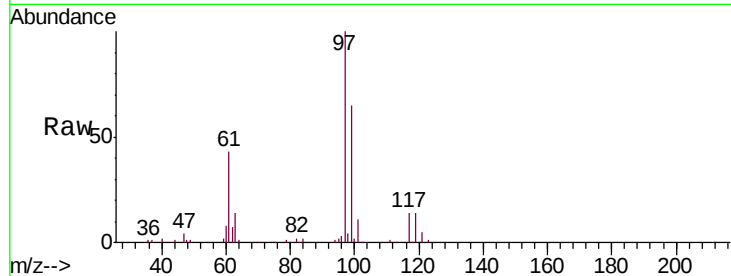




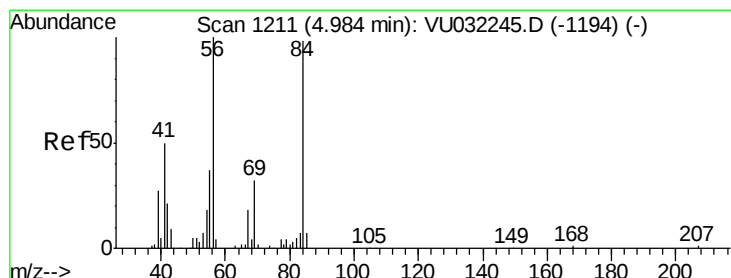
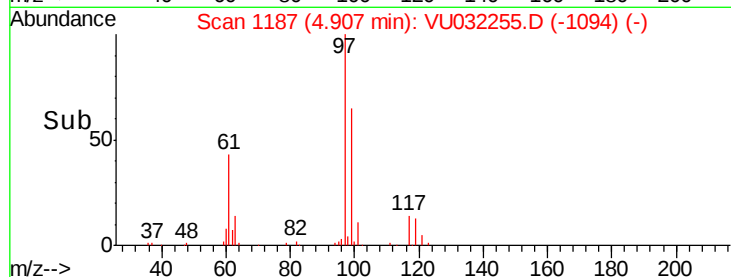
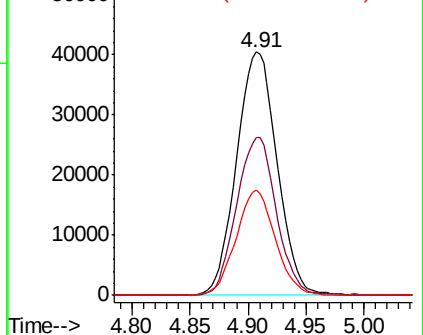
#29
 1,1,1-Trichloroethane
 Concen: 5.013 ug/L
 RT: 4.91 min Scan# 1187
 Delta R.T. 0.00 min
 Lab File: VU032255.D
 Acq: 23 May 2019 06:22

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tgt Ion: 97 Resp: 98324
 Ion Ratio Lower Upper
 97 100
 99 63.6 50.3 75.5
 61 41.8 34.1 51.1

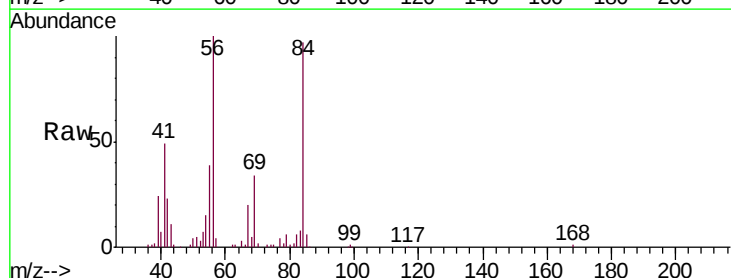


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 61.05 (60.75 to 61.75): VU0

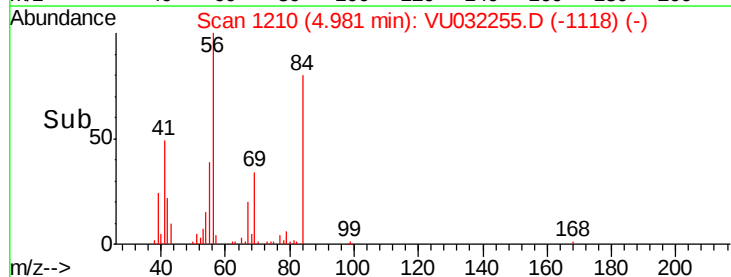
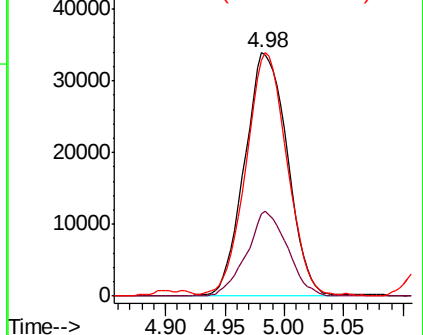


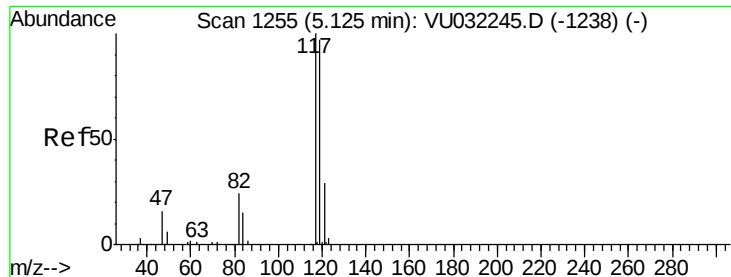
#30
 Cyclohexane
 Concen: 4.603 ug/L
 RT: 4.98 min Scan# 1210
 Delta R.T. -0.00 min
 Lab File: VU032255.D
 Acq: 23 May 2019 06:22

Tgt Ion: 56 Resp: 84406
 Ion Ratio Lower Upper
 56 100
 69 33.2 26.6 39.8
 84 94.2 75.0 112.6



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





#31

Carbon tetrachloride

Concen: 4.745 ug/L

RT: 5.13 min Scan# 1256

Delta R.T. 0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

Instrument :

MSVOA_U

ClientSampleId :

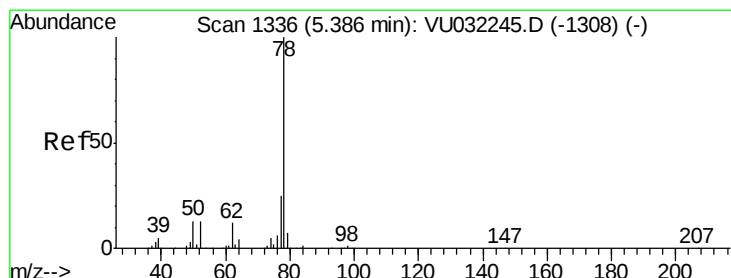
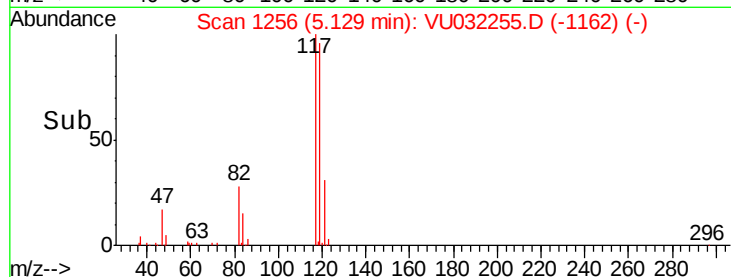
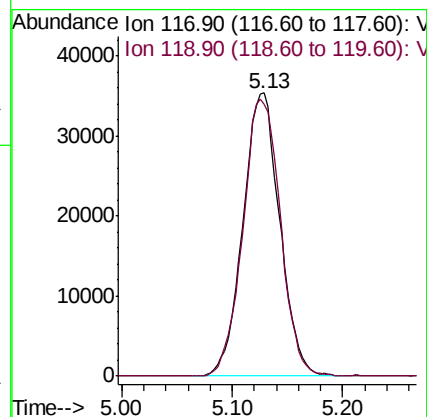
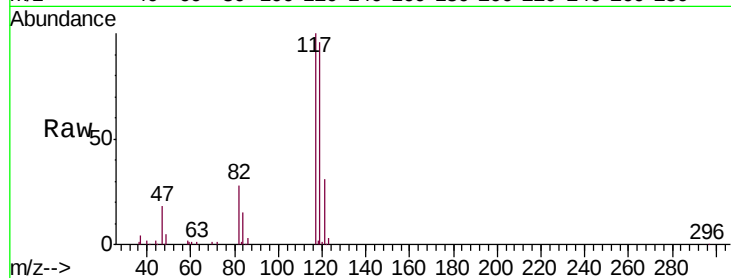
VSTD00512

Tgt Ion:117 Resp: 81997

Ion Ratio Lower Upper

117 100

119 99.6 76.9 115.3



#33

Benzene

Concen: 5.222 ug/L

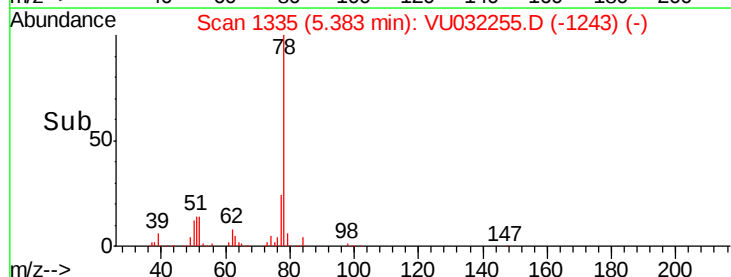
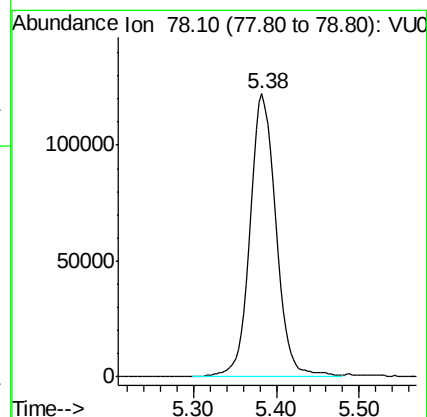
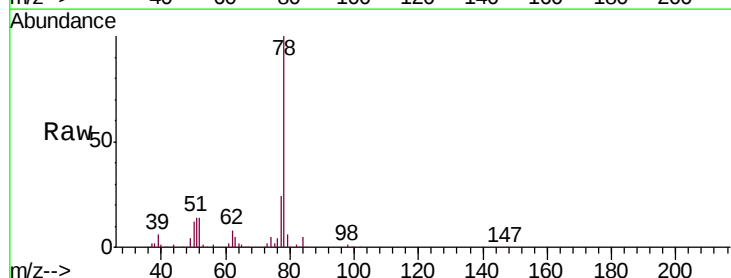
RT: 5.38 min Scan# 1335

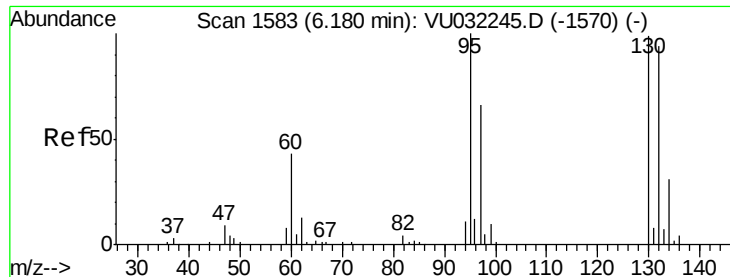
Delta R.T. -0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

Tgt Ion: 78 Resp: 266940





#34

Trichloroethene

Concen: 4.752 ug/L

RT: 6.18 min Scan# 1584

Delta R.T. 0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

Tgt Ion: 95 Resp: 65197

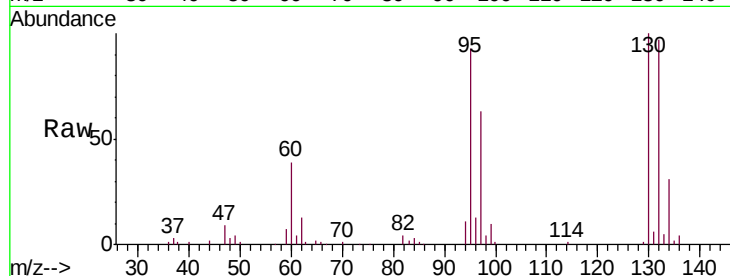
Ion Ratio Lower Upper

95 100

97 67.6 39.9 74.1

132 104.2 65.9 122.5

130 107.8 70.6 131.2

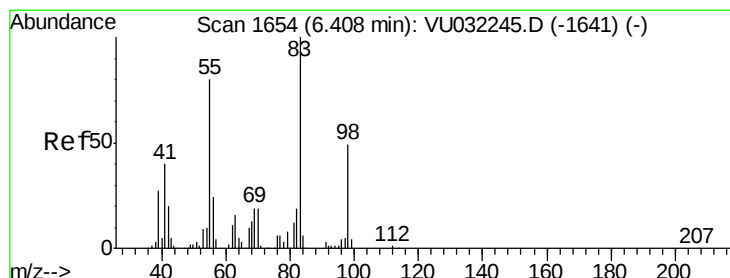
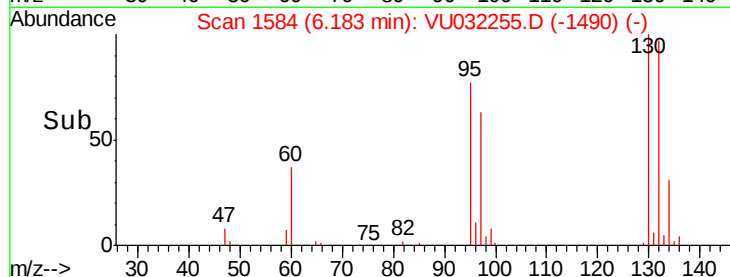
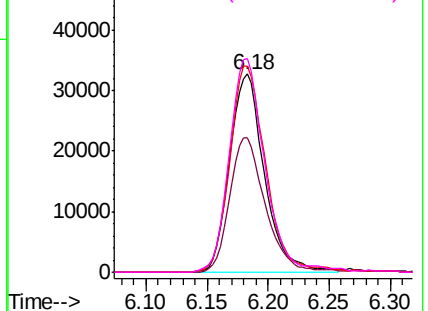


Abundance Ion 95.00 (94.70 to 95.70): VU0

Ion 96.95 (96.65 to 97.65): VU0

Ion 131.95 (131.65 to 132.65): V

Ion 129.95 (129.65 to 130.65): V



#35

Methylcyclohexane

Concen: 4.505 ug/L

RT: 6.41 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

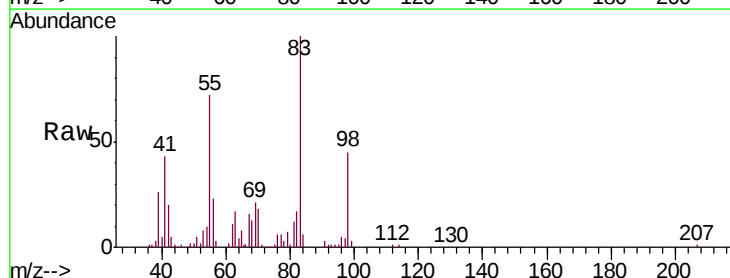
Tgt Ion: 83 Resp: 91047

Ion Ratio Lower Upper

83 100

55 73.5 59.7 89.5

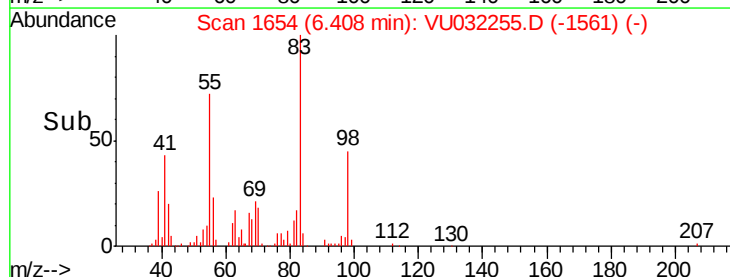
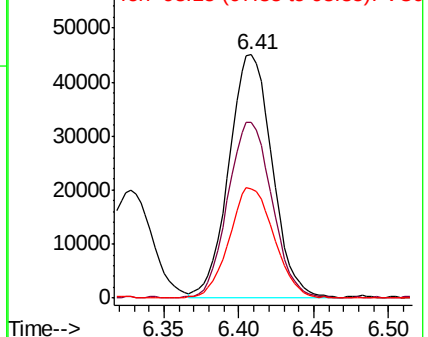
98 46.9 37.5 56.3

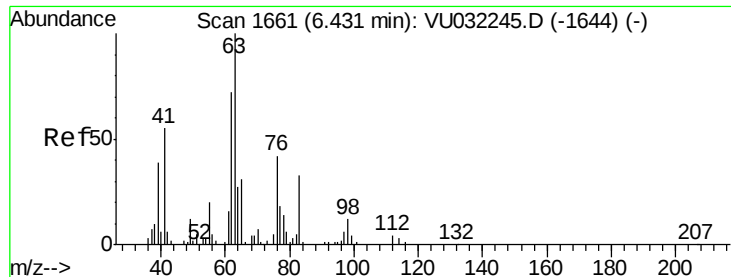


Abundance Ion 83.15 (82.85 to 83.85): VU0

Ion 55.10 (54.80 to 55.80): VU0

Ion 98.15 (97.85 to 98.85): VU0





#37

1,2-Dichloropropane

Concen: 5.158 ug/L

RT: 6.43 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

Instrument :

MSVOA_U

ClientSampleId :

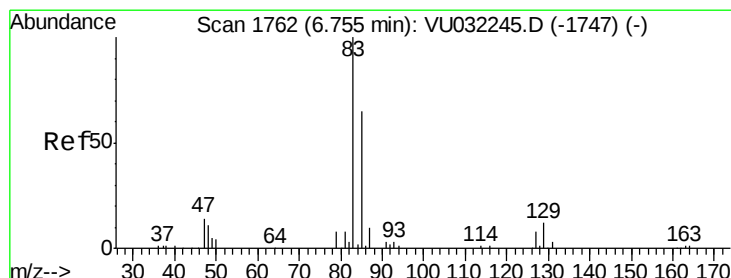
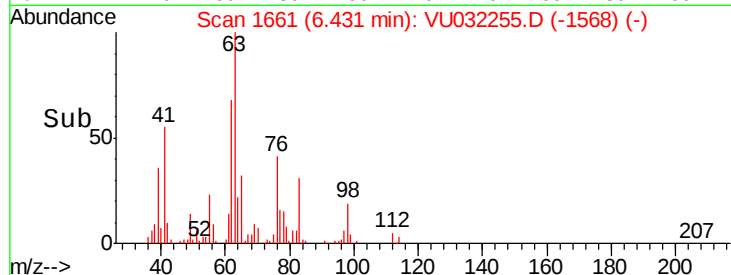
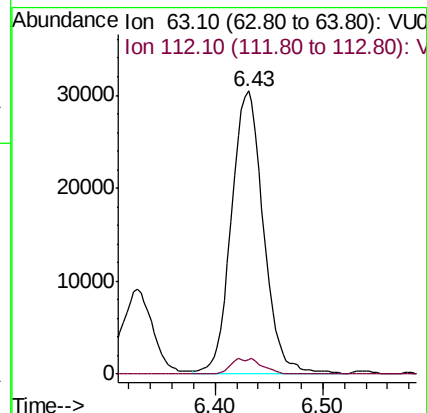
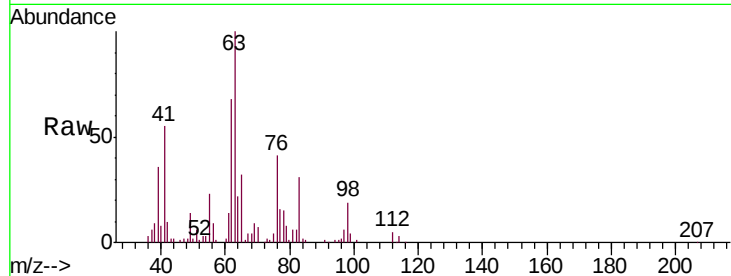
VSTD00512

Tgt Ion: 63 Resp: 63480

Ion Ratio Lower Upper

63 100

112 2.4 3.8 5.8#



#38

Bromodichloromethane

Concen: 4.997 ug/L

RT: 6.75 min Scan# 1761

Delta R.T. -0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

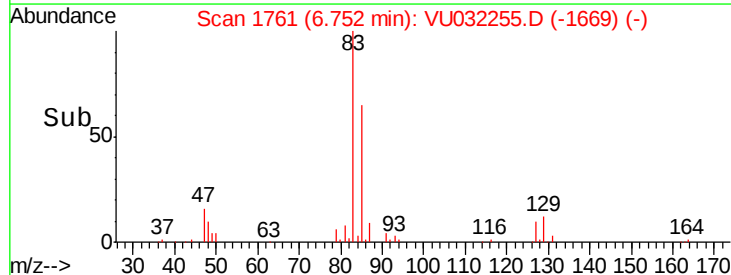
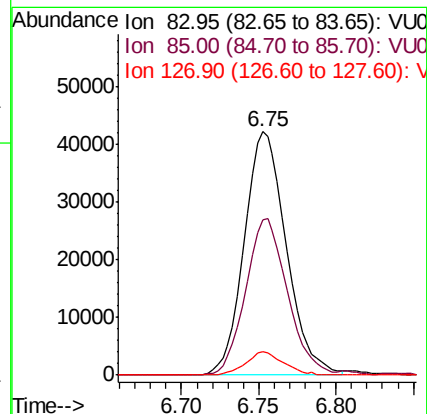
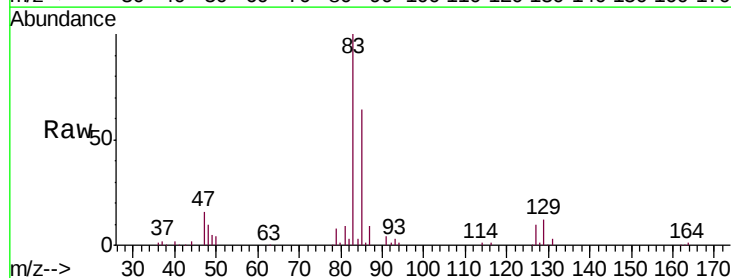
Tgt Ion: 83 Resp: 79923

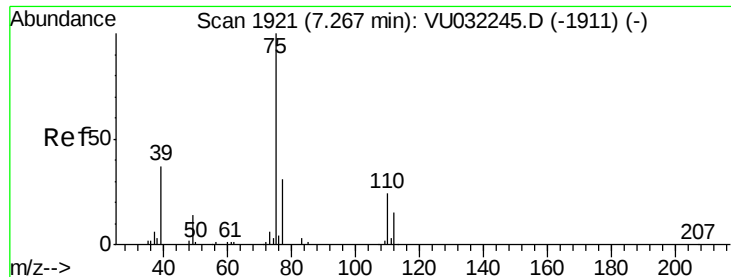
Ion Ratio Lower Upper

83 100

85 63.9 44.4 82.4

127 9.9 7.0 10.6

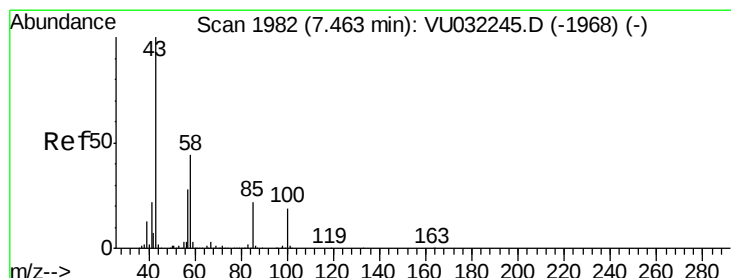
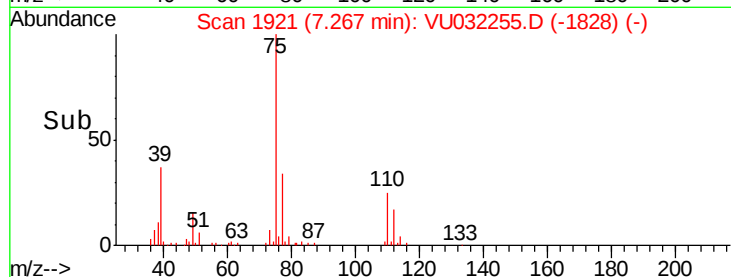
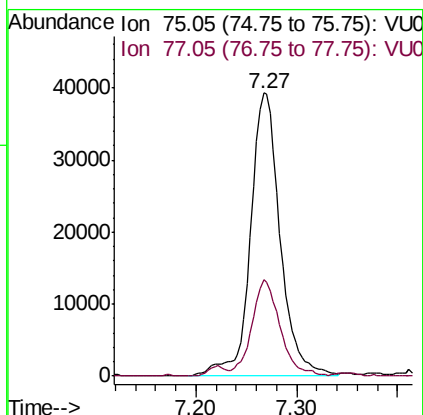
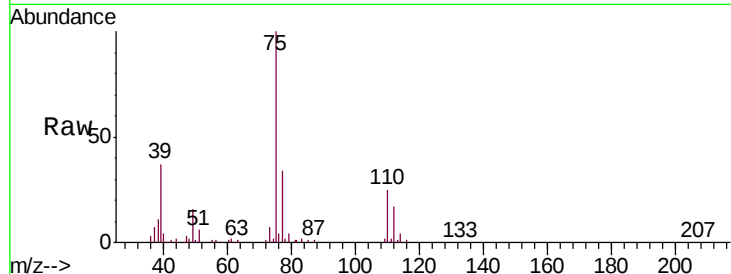




#39
 cis-1,3-Dichloropropene
 Concen: 4.572 ug/L
 RT: 7.27 min Scan# 1921
 Delta R.T. 0.00 min
 Lab File: VU032255.D
 Acq: 23 May 2019 06:22

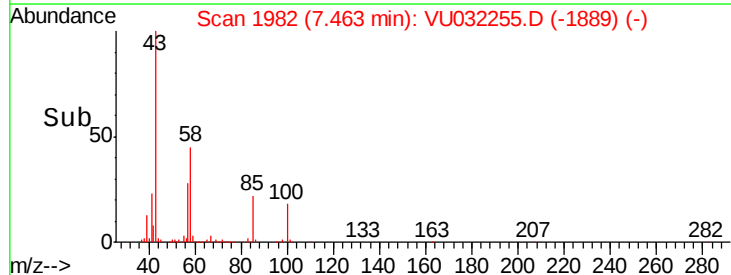
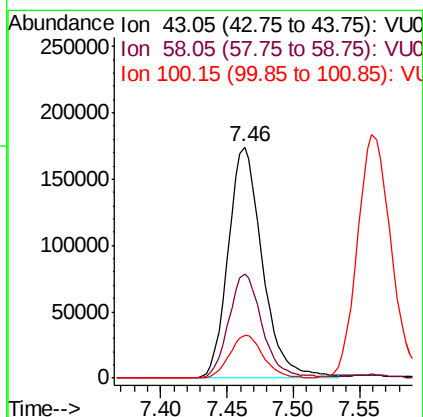
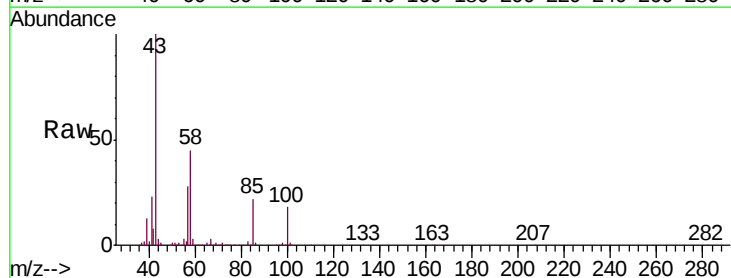
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

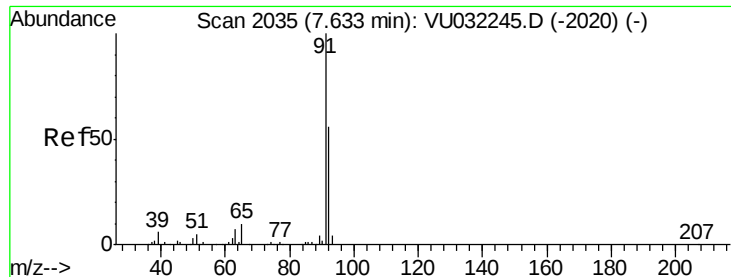
Tgt Ion: 75 Resp: 80123
 Ion Ratio Lower Upper
 75 100
 77 34.0 22.6 42.0



#40
 4-Methyl-2-pentanone
 Concen: 50.188 ug/L
 RT: 7.46 min Scan# 1982
 Delta R.T. 0.00 min
 Lab File: VU032255.D
 Acq: 23 May 2019 06:22

Tgt Ion: 43 Resp: 312234
 Ion Ratio Lower Upper
 43 100
 58 44.5 35.8 53.6
 100 18.3 14.6 22.0





#42

Toluene

Concen: 5.237 ug/L

RT: 7.63 min Scan# 2035

Delta R.T. 0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

Instrument :

MSVOA_U

ClientSampleId :

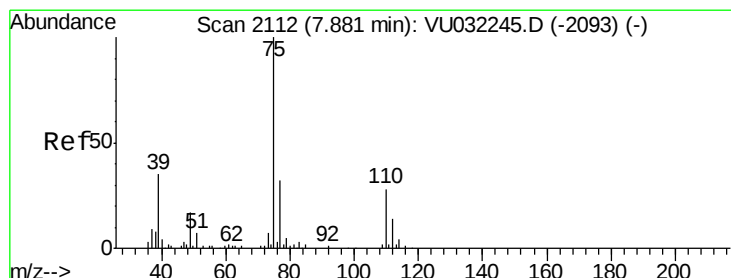
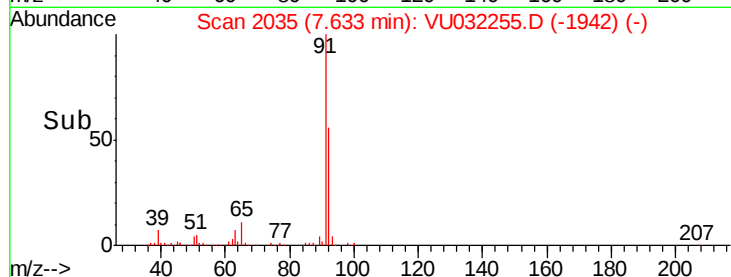
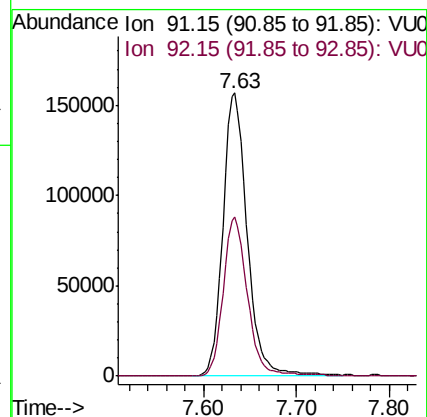
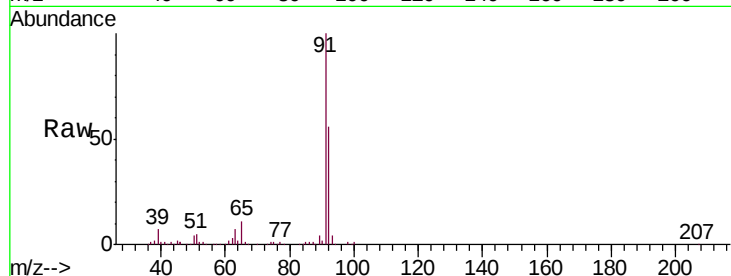
VSTD00512

Tgt Ion: 91 Resp: 284474

Ion Ratio Lower Upper

91 100

92 56.5 38.5 71.5



#44

trans-1,3-Dichloropropene

Concen: 4.749 ug/L

RT: 7.88 min Scan# 2112

Delta R.T. 0.00 min

Lab File: VU032255.D

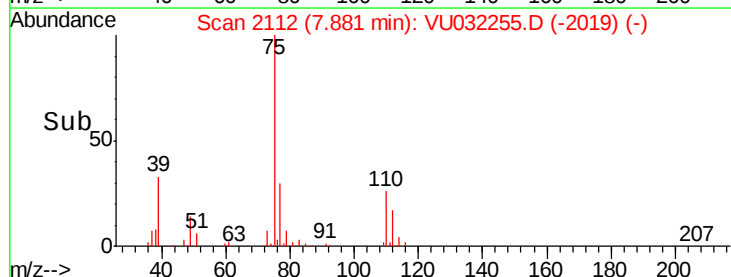
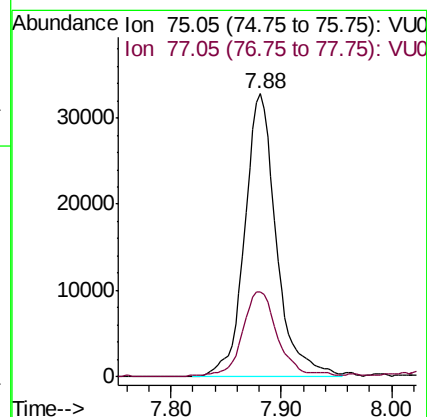
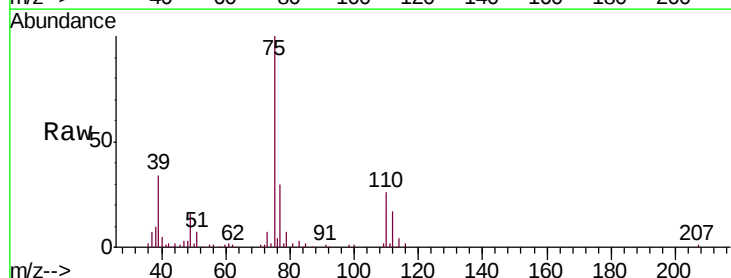
Acq: 23 May 2019 06:22

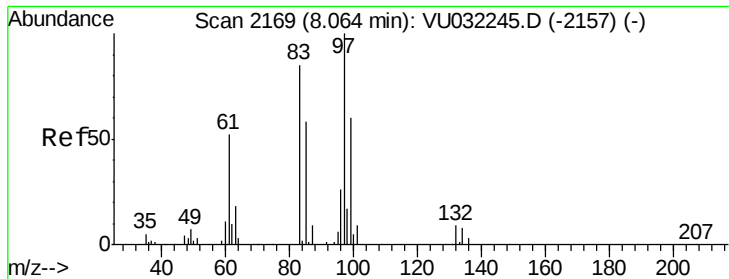
Tgt Ion: 75 Resp: 65399

Ion Ratio Lower Upper

75 100

77 30.0 22.5 41.9

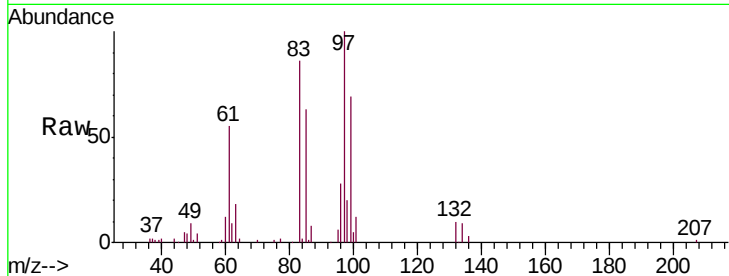




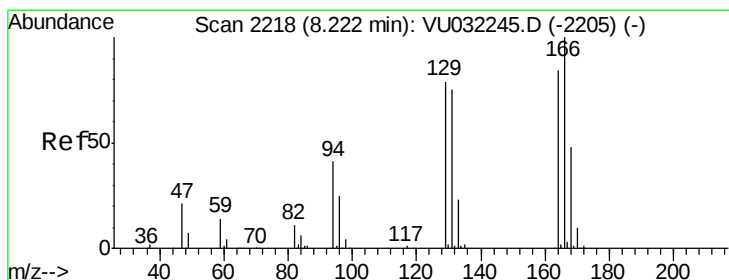
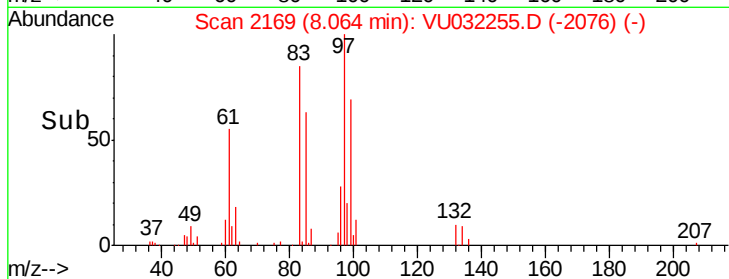
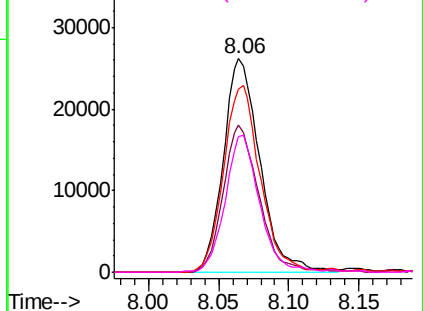
#45
 1,1,2-Trichloroethane
 Concen: 4.993 ug/L
 RT: 8.06 min Scan# 2169
 Delta R.T. 0.00 min
 Lab File: VU032255.D
 Acq: 23 May 2019 06:22

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tgt Ion:	97	Resp:	47454
Ion	Ratio	Lower	Upper
97	100		
99	69.2	44.2	82.0
83	85.7	60.5	112.3
85	63.3	36.3	67.3

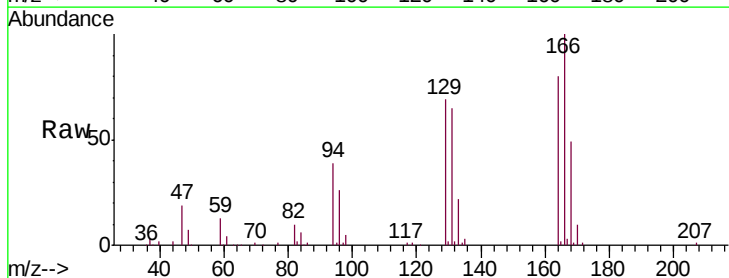


Abundance Ion 96.95 (96.65 to 97.65): VU0
 Ion 99.05 (98.75 to 99.75): VU0
 Ion 82.95 (82.65 to 83.65): VU0
 Ion 85.00 (84.70 to 85.70): VU0

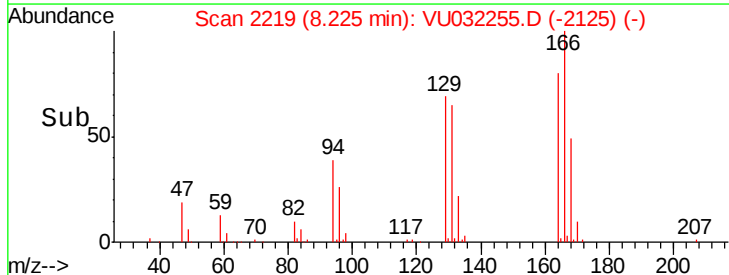
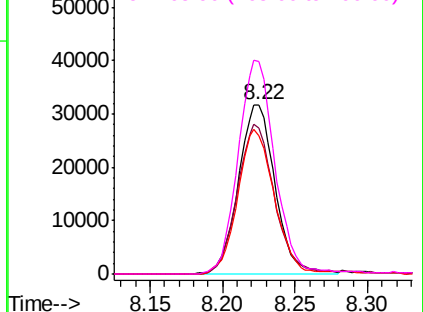


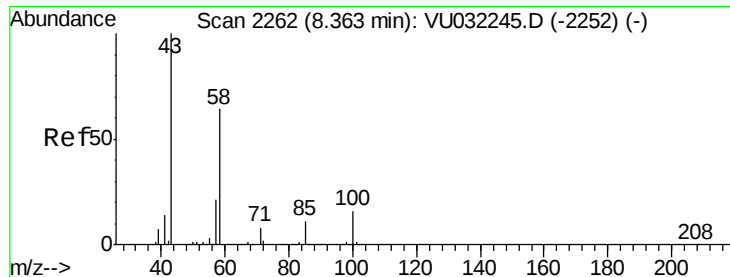
#47
 Tetrachloroethene
 Concen: 4.918 ug/L
 RT: 8.22 min Scan# 2219
 Delta R.T. 0.00 min
 Lab File: VU032255.D
 Acq: 23 May 2019 06:22

Tgt Ion:	164	Resp:	55695
Ion	Ratio	Lower	Upper
164	100		
129	86.2	67.1	124.7
131	81.9	62.2	115.4
166	125.6	90.9	168.9



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

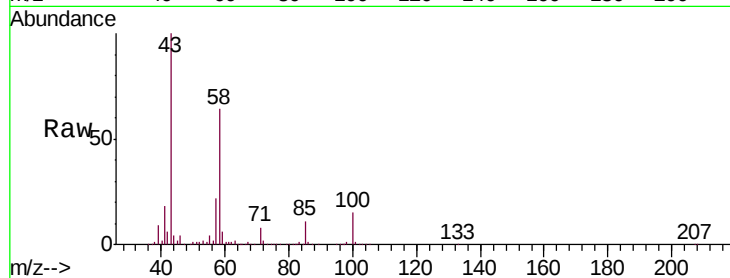




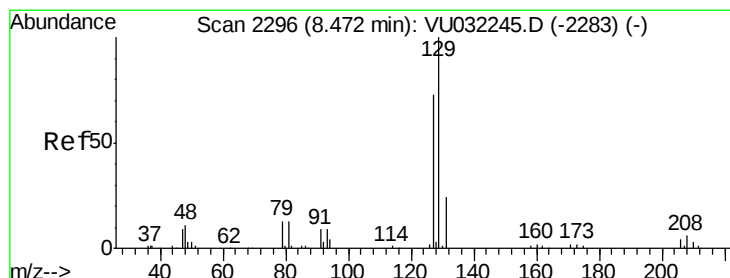
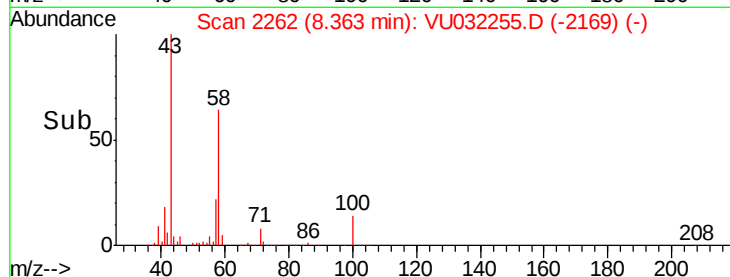
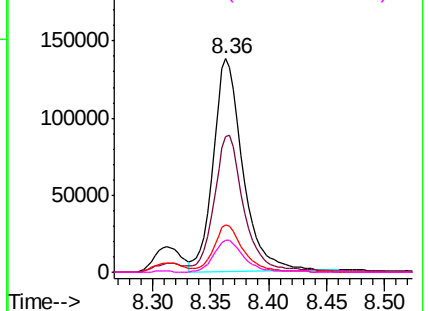
#48
2-Hexanone
Concen: 51.600 ug/L
RT: 8.36 min Scan# 2262
Delta R.T. 0.00 min
Lab File: VU032255.D
Acq: 23 May 2019 06:22

Instrument :
MSVOA_U
ClientSampleId :
VSTD00512

Tgt Ion:	43	Resp:	246225
Ion	Ratio	Lower	Upper
43	100		
58	64.5	49.7	74.5
57	21.7	17.1	25.7
100	15.7	11.6	17.4

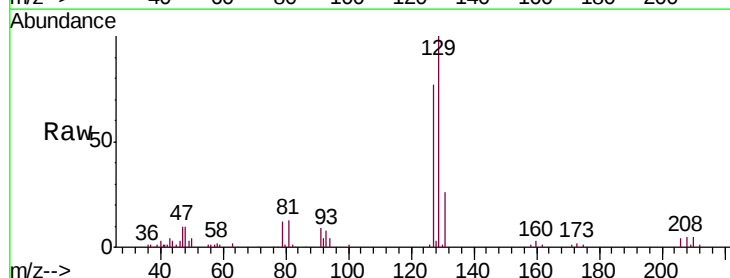


Abundance Ion 43.05 (42.75 to 43.75): VU0
Ion 58.05 (57.75 to 58.75): VU0
Ion 57.20 (56.90 to 57.90): VU0
Ion 100.15 (99.85 to 100.85): VU0

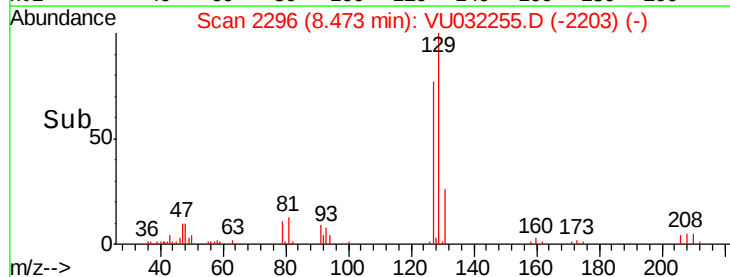
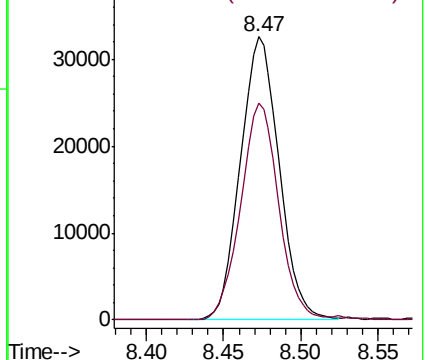


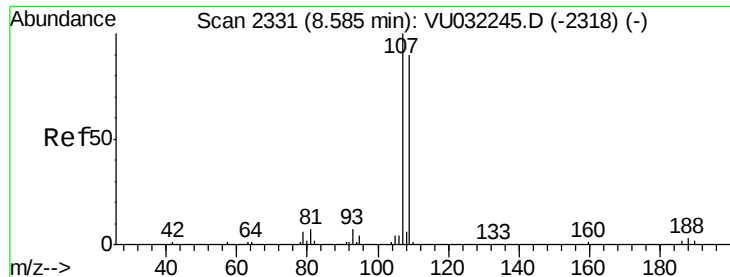
#49
Dibromochloromethane
Concen: 5.254 ug/L
RT: 8.47 min Scan# 2296
Delta R.T. 0.00 min
Lab File: VU032255.D
Acq: 23 May 2019 06:22

Tgt Ion:	129	Resp:	56839
Ion	Ratio	Lower	Upper
129	100		
127	76.8	51.7	95.9



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

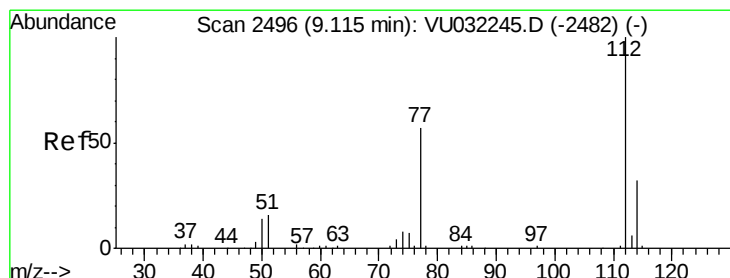
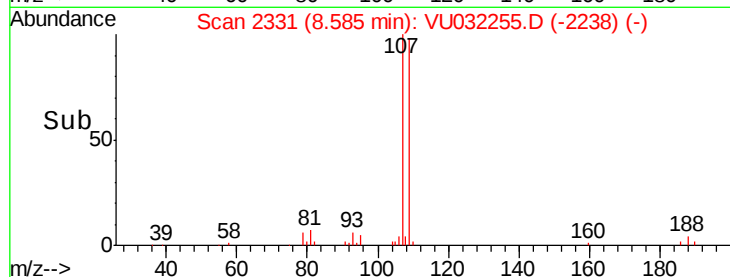
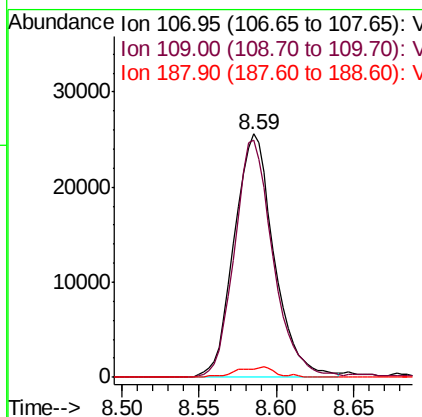
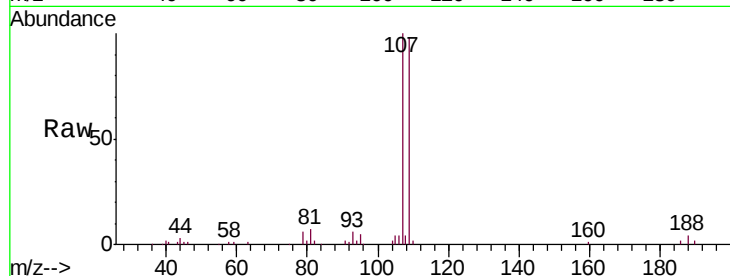




#50
 1,2-Dibromoethane
 Concen: 5.125 ug/L
 RT: 8.59 min Scan# 2331
 Delta R.T. 0.00 min
 Lab File: VU032255.D
 Acq: 23 May 2019 06:22

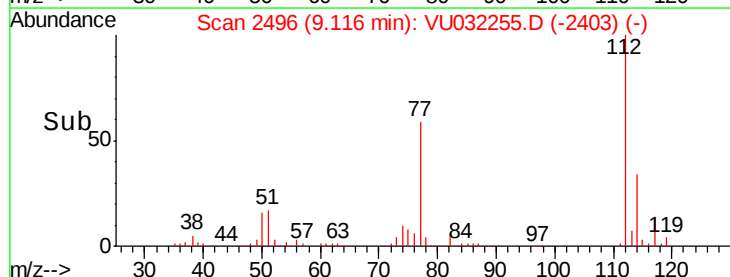
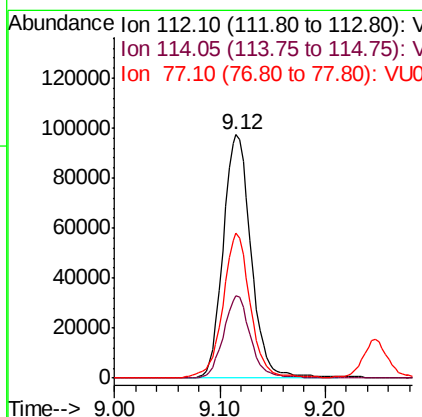
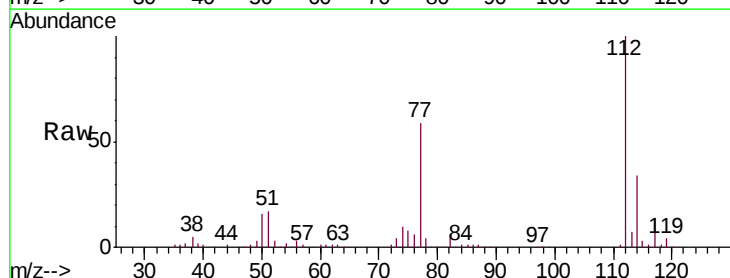
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

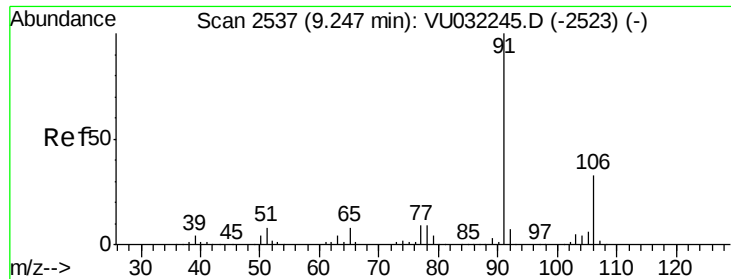
Tgt Ion:107 Resp: 45923
 Ion Ratio Lower Upper
 107 100
 109 97.5 65.8 122.2
 188 3.5 2.6 3.8



#51
 Chlorobenzene
 Concen: 5.121 ug/L
 RT: 9.12 min Scan# 2496
 Delta R.T. 0.00 min
 Lab File: VU032255.D
 Acq: 23 May 2019 06:22

Tgt Ion:112 Resp: 178016
 Ion Ratio Lower Upper
 112 100
 114 33.9 22.6 42.0
 77 59.3 46.8 70.2





#52

Ethylbenzene

Concen: 4.960 ug/L

RT: 9.25 min Scan# 2537

Delta R.T. 0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

Instrument :

MSVOA_U

ClientSampleId :

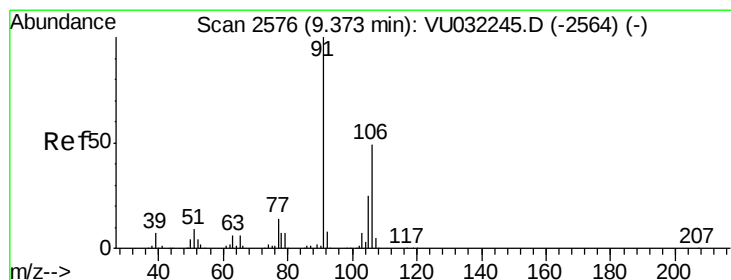
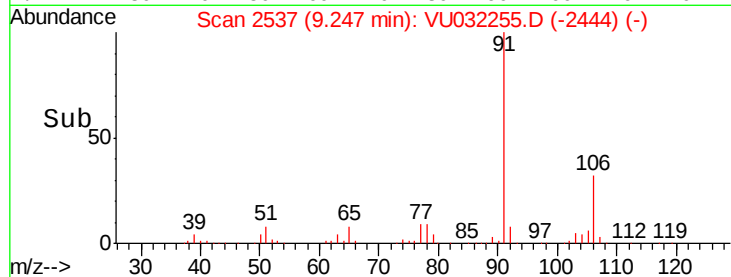
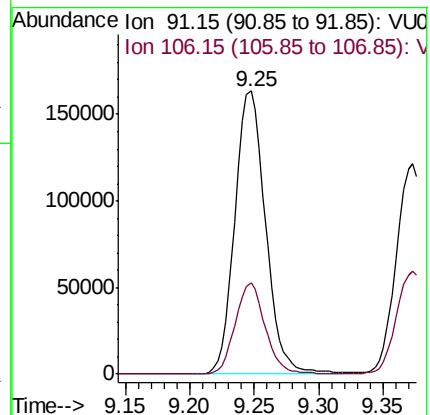
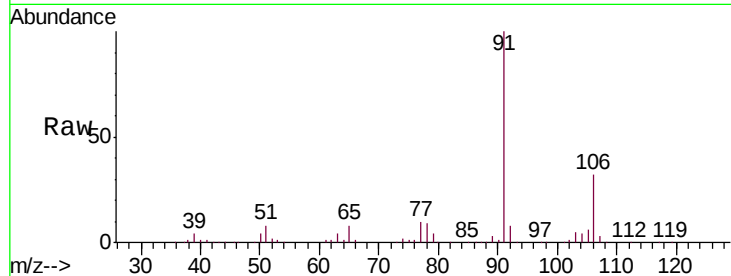
VSTD00512

Tgt Ion: 91 Resp: 271167

Ion Ratio Lower Upper

91 100

106 32.1 20.9 38.9



#53

m,p-Xylene

Concen: 4.998 ug/L

RT: 9.37 min Scan# 2576

Delta R.T. 0.00 min

Lab File: VU032255.D

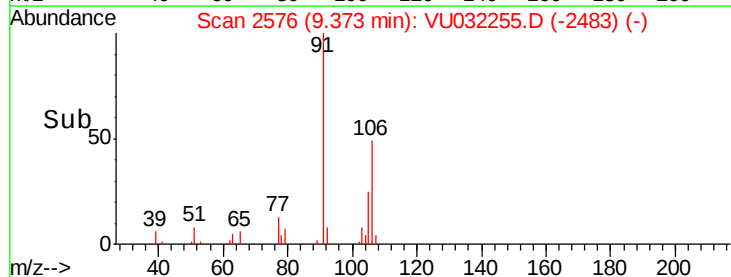
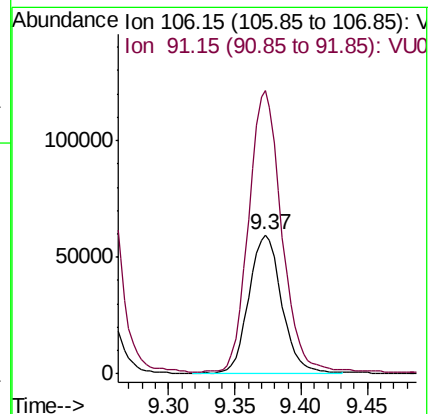
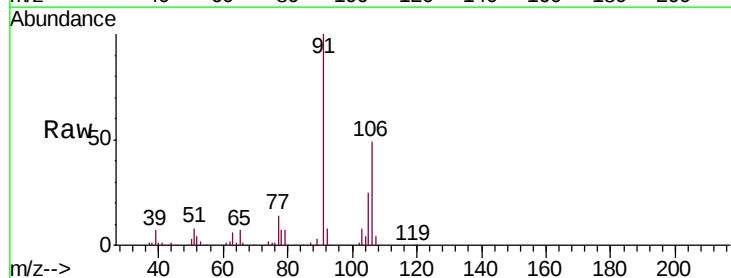
Acq: 23 May 2019 06:22

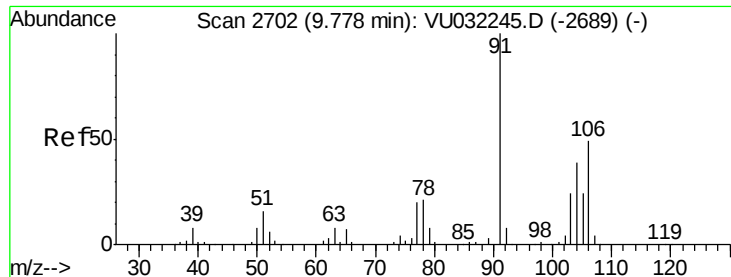
Tgt Ion: 106 Resp: 101618

Ion Ratio Lower Upper

106 100

91 203.8 143.9 267.2





#54

o-Xylene

Concen: 5.027 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

Instrument :

MSVOA_U

ClientSampleId :

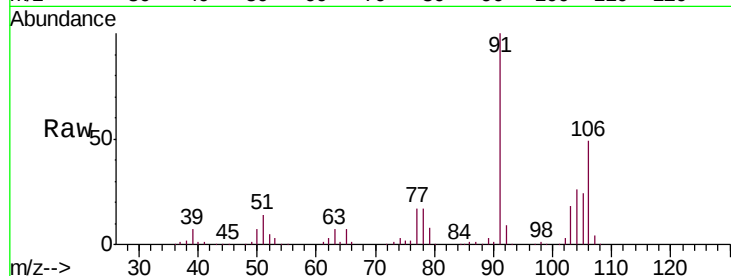
VSTD00512

Tgt Ion:106 Resp: 102122

Ion Ratio Lower Upper

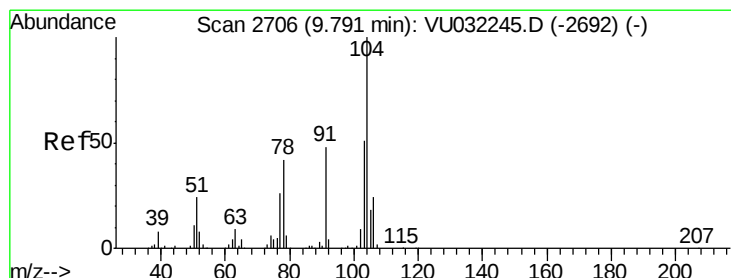
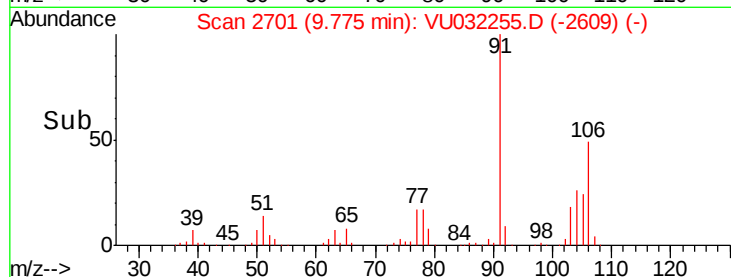
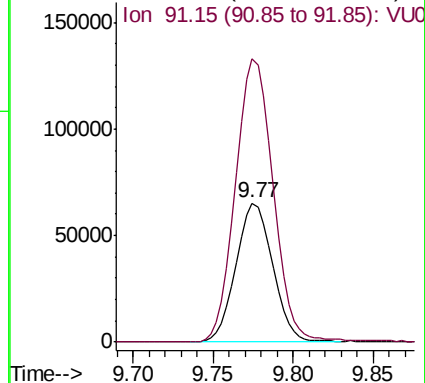
106 100

91 203.2 147.8 274.4



Abundance Ion 106.15 (105.85 to 106.85): V

Ion 91.15 (90.85 to 91.85): VU0



#55

Styrene

Concen: 5.071 ug/L

RT: 9.79 min Scan# 2706

Delta R.T. 0.00 min

Lab File: VU032255.D

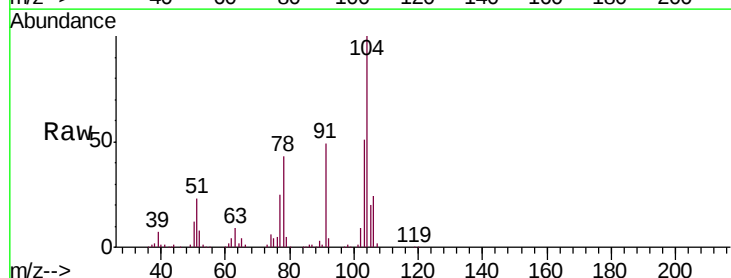
Acq: 23 May 2019 06:22

Tgt Ion:104 Resp: 172384

Ion Ratio Lower Upper

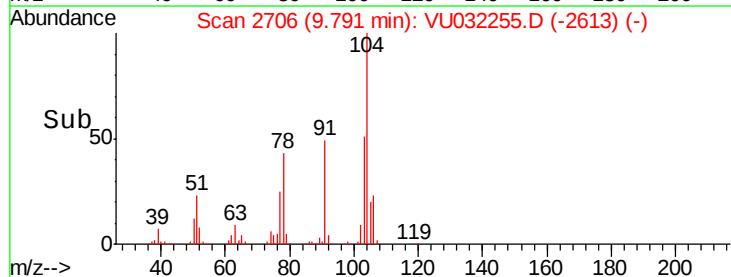
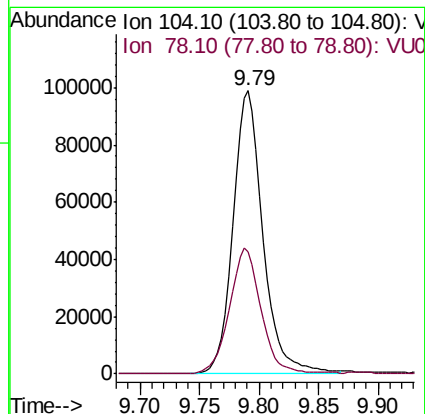
104 100

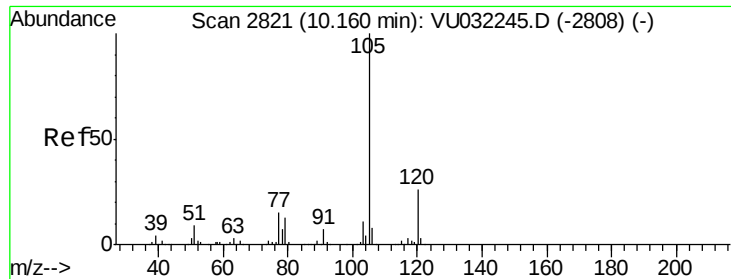
78 43.4 30.3 56.3



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VU0





#56

Isopropylbenzene

Concen: 5.069 ug/L

RT: 10.16 min Scan# 2822

Delta R.T. 0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

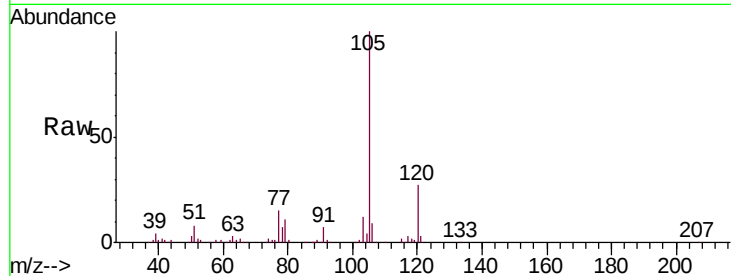
Tgt Ion:105 Resp: 260357

Ion Ratio Lower Upper

105 100

120 26.5 21.0 31.6

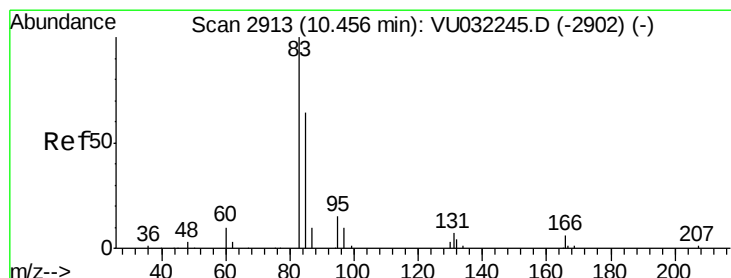
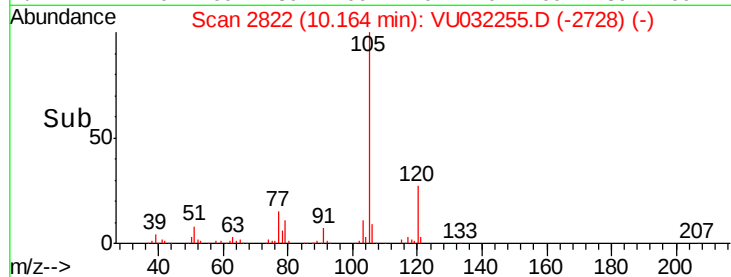
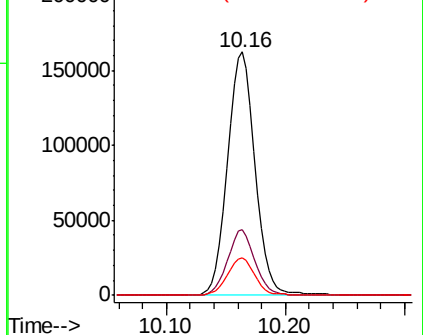
77 15.4 11.9 17.9



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: 4.998 ug/L

RT: 10.45 min Scan# 2912

Delta R.T. -0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

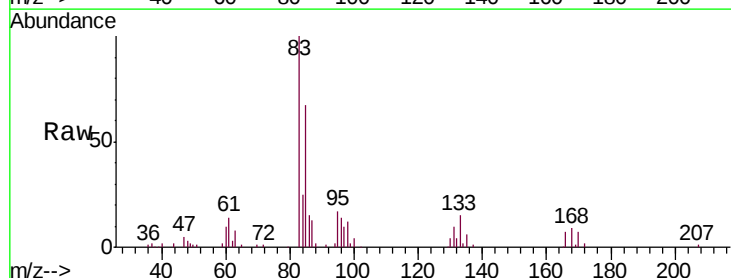
Tgt Ion: 83 Resp: 57218

Ion Ratio Lower Upper

83 100

85 66.6 46.5 86.3

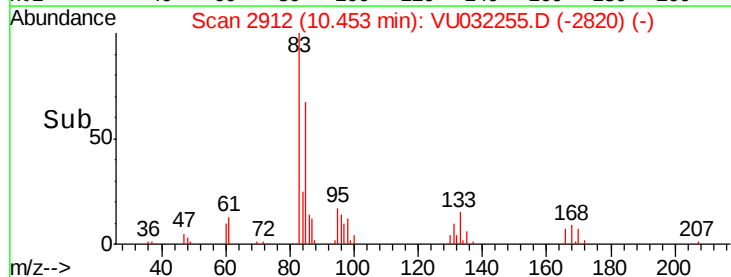
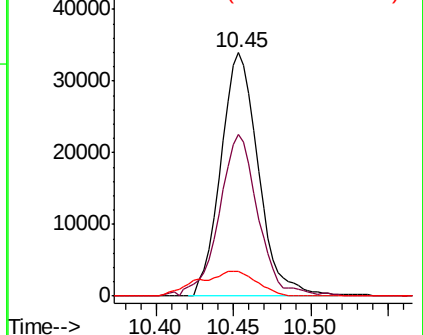
131 9.9 7.8 11.6

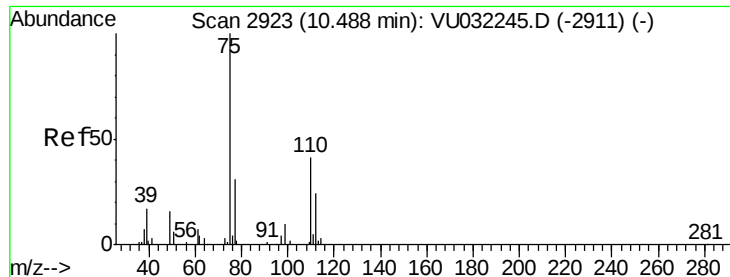


Abundance Ion 82.95 (82.65 to 83.65): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 130.95 (130.65 to 131.65): V





#59

1,2,3-Trichloropropane

Concen: 5.104 ug/L

RT: 10.49 min Scan# 2924

Delta R.T. 0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

Instrument :

MSVOA_U

ClientSampleId :

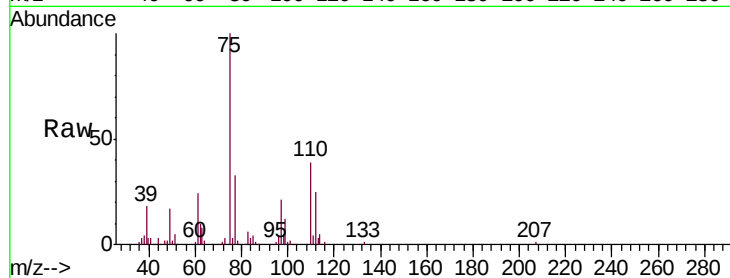
VSTD00512

Tgt Ion: 75 Resp: 40908

Ion Ratio Lower Upper

75 100

77 34.7 28.2 42.4



Abundance Ion 75.00 (74.70 to 75.70): VU032245.D (-2911) (-)

Ion 77.00 (76.70 to 77.70): VU032245.D (-2911) (-)

10.49

25000

20000

15000

10000

5000

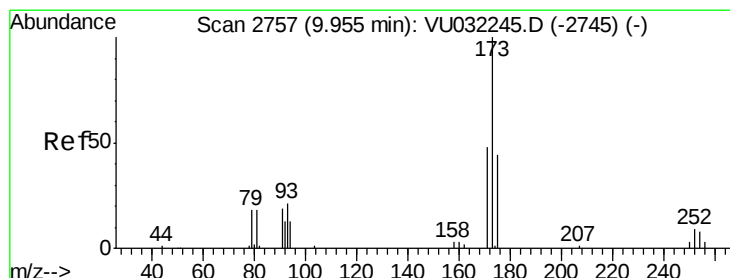
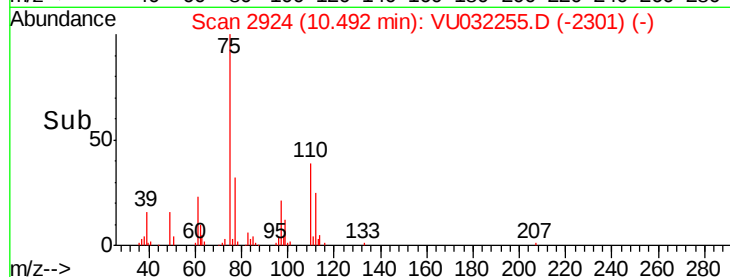
0

Time-->

10.40

10.50

10.60



#61

Bromoform

Concen: 5.218 ug/L

RT: 9.95 min Scan# 2757

Delta R.T. 0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

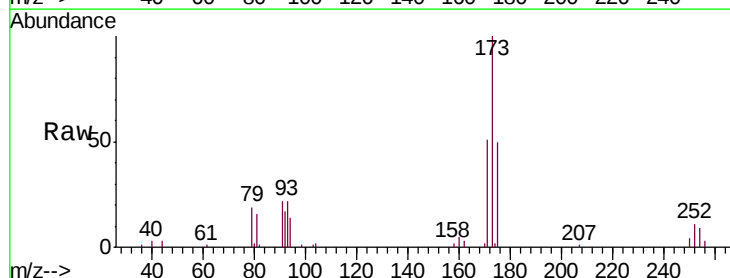
Tgt Ion: 173 Resp: 32207

Ion Ratio Lower Upper

173 100

175 48.3 40.1 60.1

254 8.6 7.8 11.6



Abundance Ion 172.90 (172.60 to 173.60): VU032245.D (-2745) (-)

Ion 174.90 (174.60 to 175.60): VU032245.D (-2745) (-)

Ion 253.75 (253.45 to 254.45): VU032245.D (-2745) (-)

9.95

25000

20000

15000

10000

5000

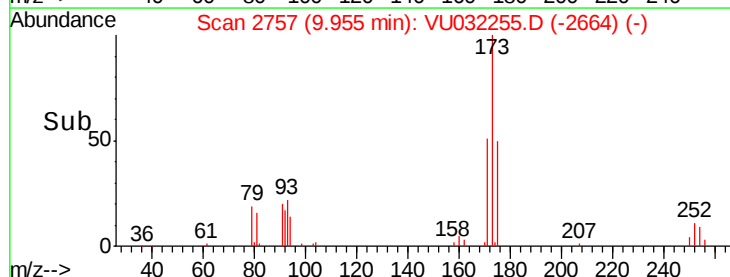
0

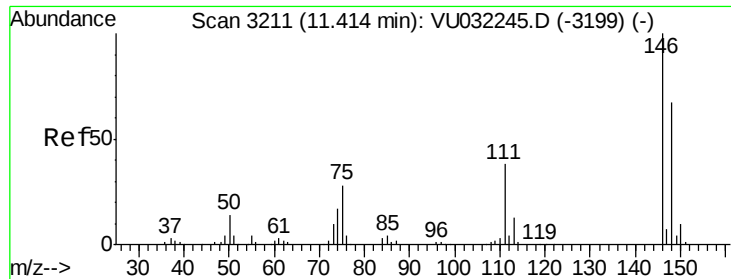
Time-->

9.90

9.95

10.00

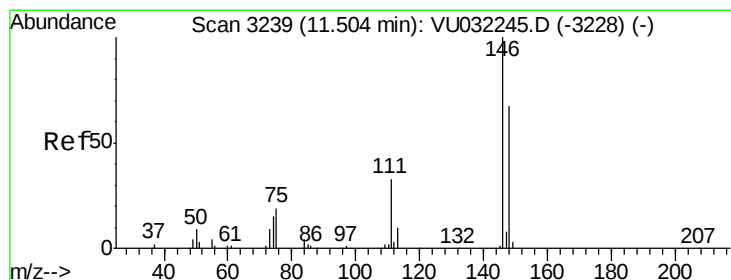
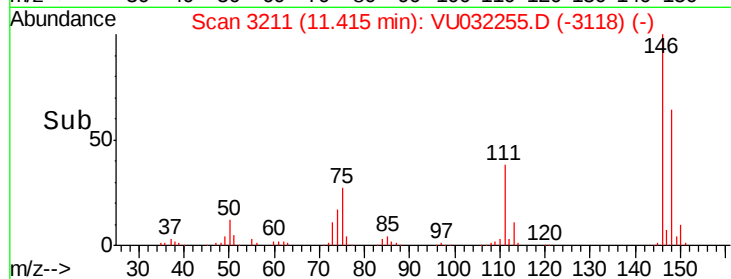
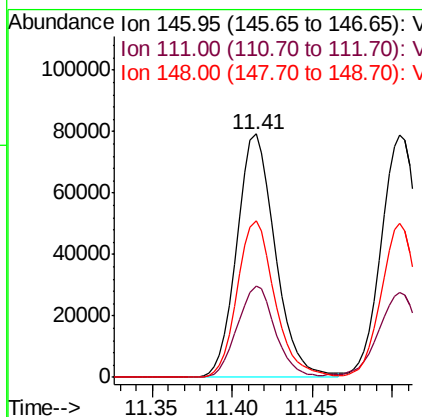
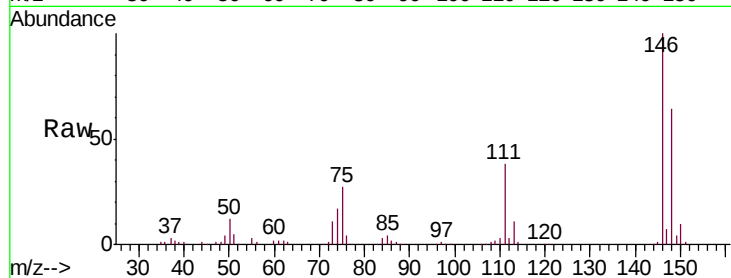




#62
 1,3-Dichlorobenzene
 Concen: 5.077 ug/L
 RT: 11.41 min Scan# 3211
 Delta R.T. 0.00 min
 Lab File: VU032255.D
 Acq: 23 May 2019 06:22

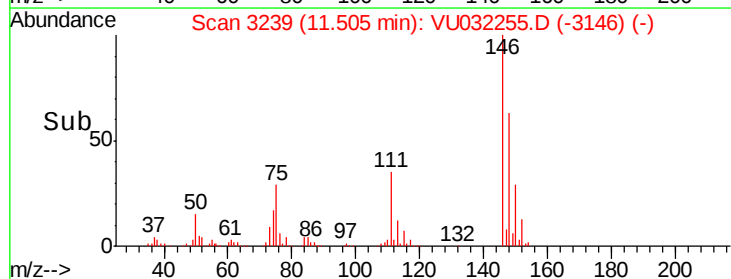
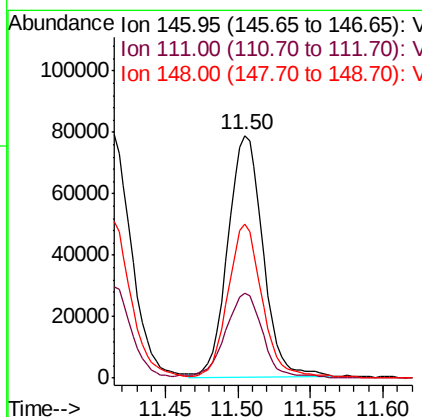
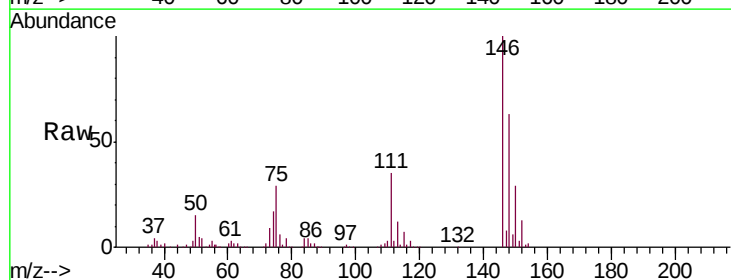
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

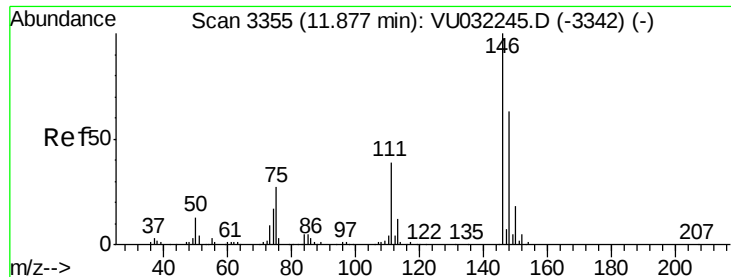
Tgt Ion:146 Resp: 129282
 Ion Ratio Lower Upper
 146 100
 111 37.7 28.2 52.4
 148 64.4 46.0 85.4



#63
 1,4-Dichlorobenzene
 Concen: 4.925 ug/L
 RT: 11.50 min Scan# 3239
 Delta R.T. 0.00 min
 Lab File: VU032255.D
 Acq: 23 May 2019 06:22

Tgt Ion:146 Resp: 131534
 Ion Ratio Lower Upper
 146 100
 111 34.7 26.6 49.4
 148 63.3 45.2 84.0

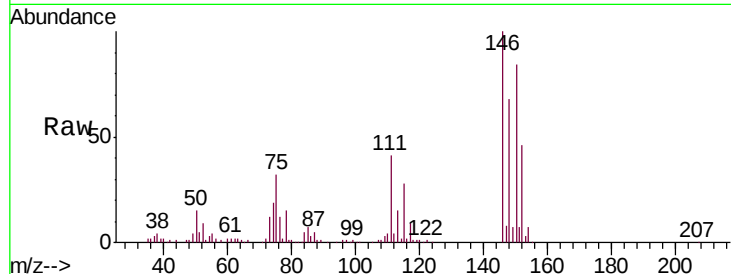




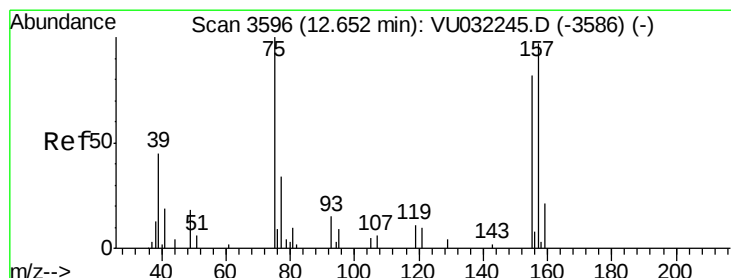
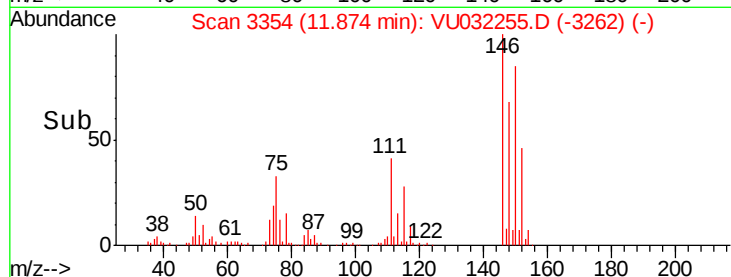
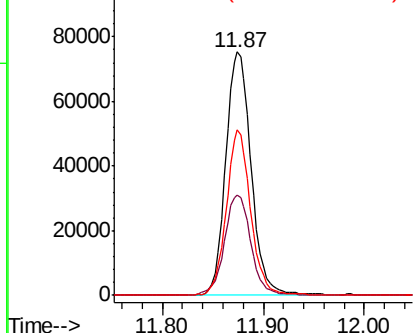
#65
 1,2-Dichlorobenzene
 Concen: 5.141 ug/L
 RT: 11.87 min Scan# 3354
 Delta R.T. -0.00 min
 Lab File: VU032255.D
 Acq: 23 May 2019 06:22

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD00512

Tgt Ion:146 Resp: 132784
 Ion Ratio Lower Upper
 146 100
 111 41.4 33.9 50.9
 148 67.9 54.3 81.5

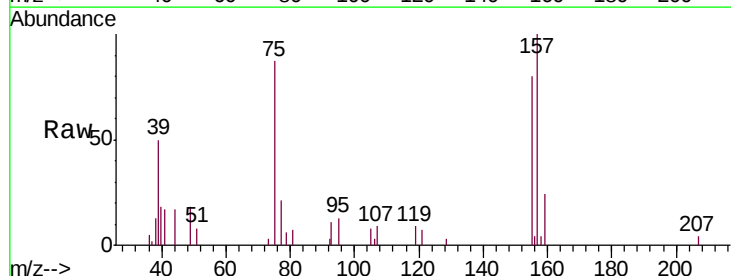


Abundance Ion 145.95 (145.65 to 146.65): V
 Ion 111.00 (110.70 to 111.70): V
 Ion 148.00 (147.70 to 148.70): V

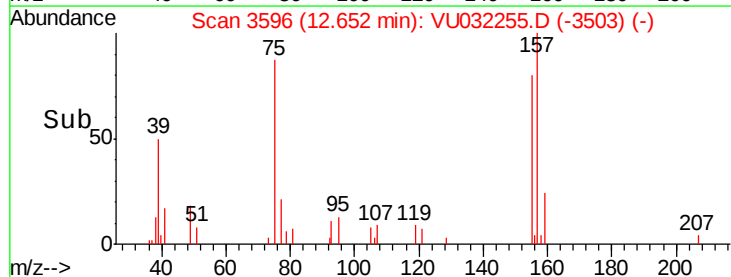
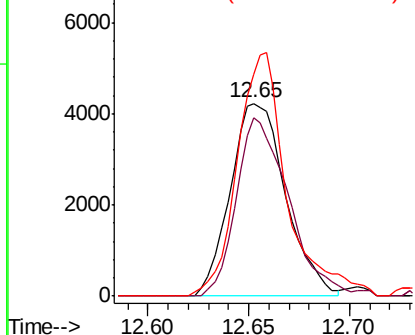


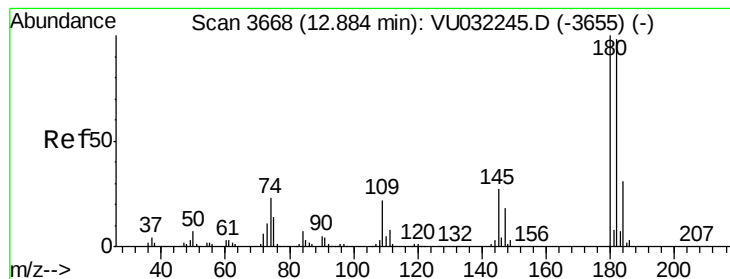
#66
 1,2-Dibromo-3-chloropropane
 Concen: 4.878 ug/L
 RT: 12.65 min Scan# 3596
 Delta R.T. 0.00 min
 Lab File: VU032255.D
 Acq: 23 May 2019 06:22

Tgt Ion: 75 Resp: 8135
 Ion Ratio Lower Upper
 75 100
 155 92.5 69.3 103.9
 157 115.3 90.6 135.8



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: 4.967 ug/L

RT: 12.88 min Scan# 3668

Delta R.T. 0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

Tgt Ion:180 Resp: 96240

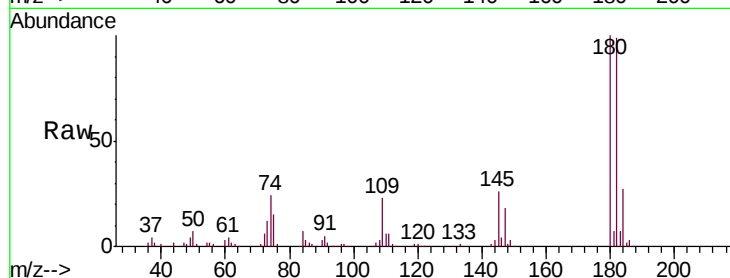
Ion Ratio Lower Upper

180 100

182 96.4 76.2 114.4

184 28.6 24.3 36.5

145 27.4 23.6 35.4

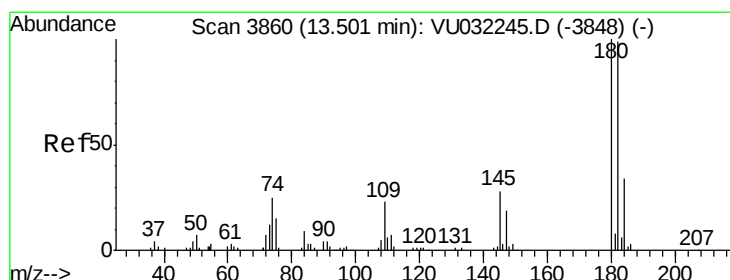
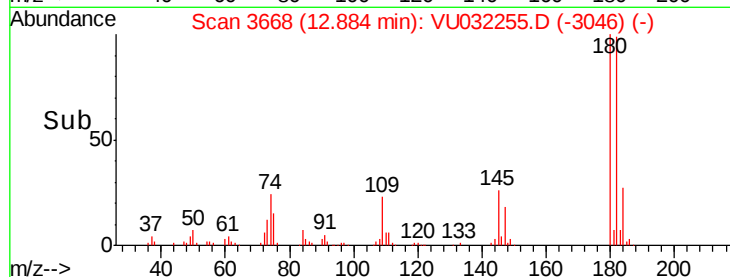
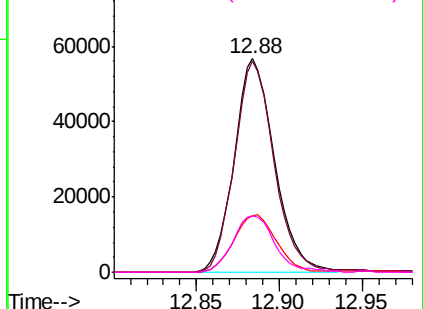


Abundance Ion 180.00 (179.70 to 180.70): V

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: 5.091 ug/L

RT: 13.50 min Scan# 3860

Delta R.T. 0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

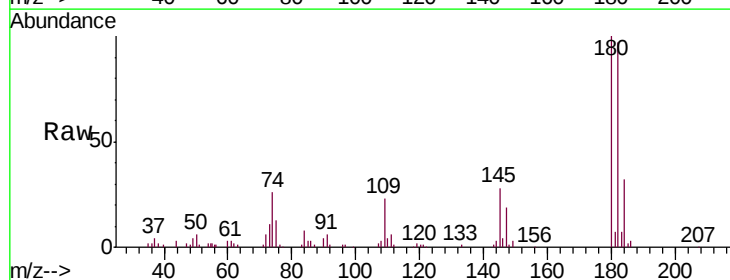
Tgt Ion:180 Resp: 69545

Ion Ratio Lower Upper

180 100

182 94.3 75.9 113.9

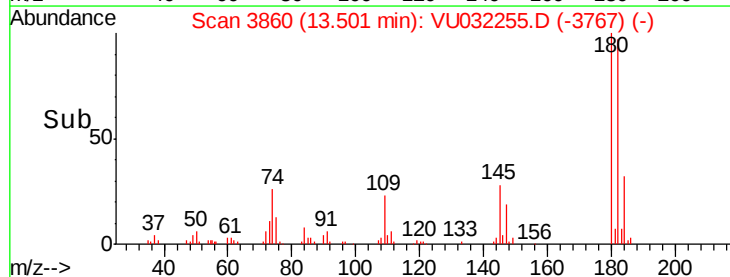
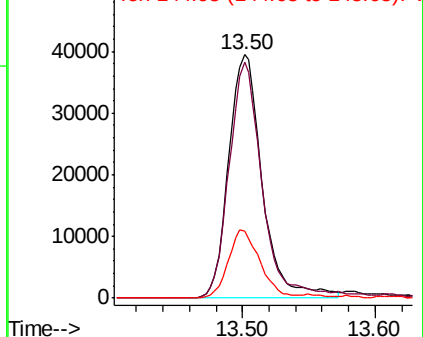
145 26.6 21.7 32.5

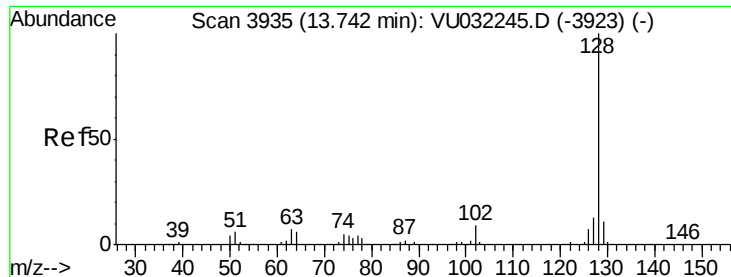


Abundance Ion 179.90 (179.60 to 180.60): V

Ion 182.00 (181.70 to 182.70): V

Ion 144.95 (144.65 to 145.65): V





#69

Naphthalene

Concen: 4.823 ug/L

RT: 13.74 min Scan# 3935

Delta R.T. 0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

Instrument :

MSVOA_U

ClientSampleId :

VSTD00512

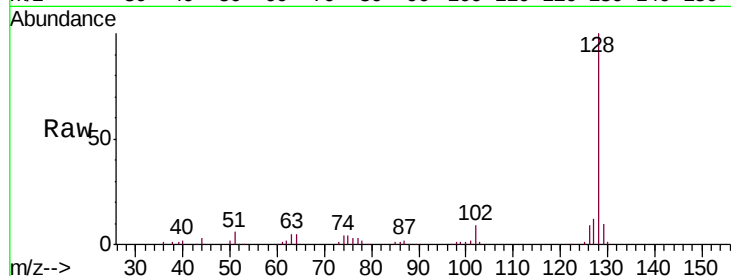
Tgt Ion:128 Resp: 100793

Ion Ratio Lower Upper

128 100

129 8.4 9.2 13.8#

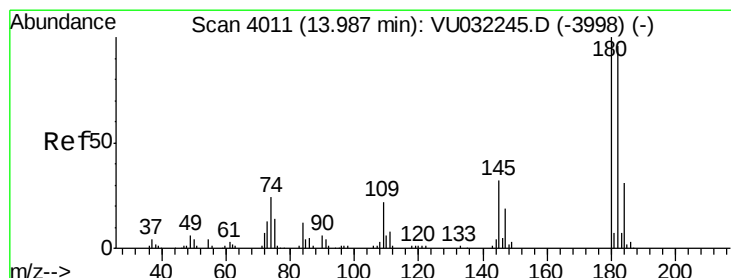
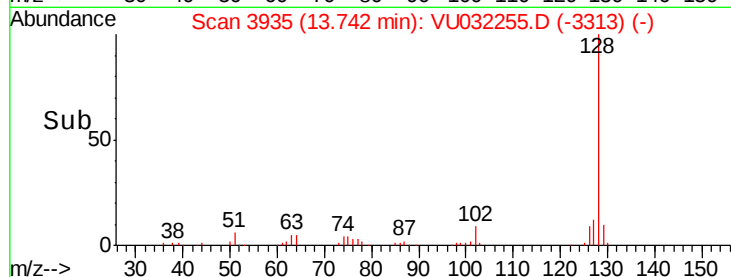
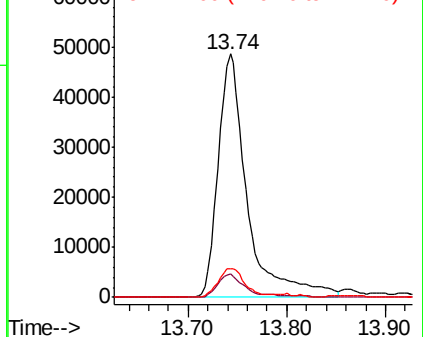
127 11.0 11.1 16.7#



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: 4.898 ug/L

RT: 13.98 min Scan# 4010

Delta R.T. -0.00 min

Lab File: VU032255.D

Acq: 23 May 2019 06:22

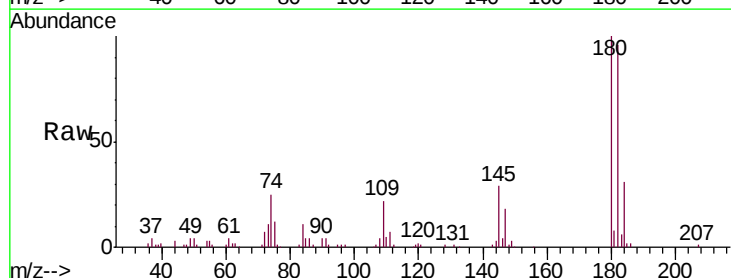
Tgt Ion:180 Resp: 70838

Ion Ratio Lower Upper

180 100

182 97.7 74.6 111.8

145 31.3 23.4 35.0



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

