

Data File : VU033555.D
Acq On : 01 Aug 2019 17:53
Operator : JC/SP
Sample : VSTDCCC050EC
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 24 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05045

Quant Time: Aug 02 02:32:13 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM073119WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 02 02:28:15 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	293484	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	295758	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	159330	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	85049	39.86	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	79.72%
7) Chloroethane-d5	1.67	69	97359	53.18	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	106.36%
11) 1,1-Dichloroethene-d2	2.26	63	170454	44.01	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	88.02%
21) 2-Butanone-d5	4.15	46	160405	113.50	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	113.50%
24) Chloroform-d	4.62	84	174614	48.82	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.64%
26) 1,2-Dichloroethane-d4	5.29	65	110158	48.63	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.26%
32) Benzene-d6	5.32	84	333612	45.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	91.00%
36) 1,2-Dichloropropane-d6	6.31	67	109180	47.50	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	95.00%
41) Toluene-d8	7.55	98	307798	44.80	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	89.60%
43) trans-1,3-Dichloropropene-	7.83	79	53215	46.68	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	93.36%
47) 2-Hexanone-d5	8.30	63	116951	107.18	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	107.18%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	176054	49.68	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	99.36%
64) 1,2-Dichlorobenzene-d4	11.85	152	132900	45.55	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	91.10%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	139781	50.506 ug/L	99
3) Chloromethane	1.32	50	143361	51.425 ug/L	99
5) Vinyl chloride	1.40	62	154420	51.671 ug/L	98
6) Bromomethane	1.62	94	121111	45.930 ug/L	96
8) Chloroethane	1.69	64	109162	60.113 ug/L	97
9) Trichlorofluoromethane	1.87	101	208207	53.259 ug/L	100
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	105080	53.021 ug/L	99
12) 1,1-Dichloroethene	2.27	96	98954	52.066 ug/L	93
13) Acetone	2.32	43	148587	102.763 ug/L	100
14) Carbon disulfide	2.46	76	288345	48.371 ug/L	100
15) Methyl Acetate	2.60	43	128064	55.632 ug/L	99
16) Methylene chloride	2.68	84	116256	53.552 ug/L	97
17) trans-1,2-Dichloroethene	2.96	96	101885	51.168 ug/L	98
18) Methyl tert-butyl Ether	2.98	73	324303	53.408 ug/L	99
19) 1,1-Dichloroethane	3.42	63	200684	53.694 ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	115667	51.753 ug/L	99
22) 2-Butanone	4.24	43	194474	112.661 ug/L	100

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	60682	52.037	ug/L	96
25) Chloroform	4.65	83	210352	53.481	ug/L	99
27) 1,2-Dichloroethane	5.38	62	161451	53.309	ug/L	100
29) Cyclohexane	4.97	56	165289	51.236	ug/L	97
30) 1,1,1-Trichloroethane	4.89	97	173974	51.123	ug/L	99
31) Carbon tetrachloride	5.11	117	153494	51.794	ug/L	100
33) Benzene	5.37	78	448568	52.574	ug/L	100
34) Trichloroethene	6.17	95	112513	49.991	ug/L	99
35) Methylcyclohexane	6.40	83	179888	51.219	ug/L	99
37) 1,2-Dichloropropane	6.41	63	121926	53.387	ug/L	99
38) Bromodichloromethane	6.74	83	154626	52.373	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	183192	51.392	ug/L	100
40) 4-Methyl-2-pentanone	7.44	43	346804	109.984	ug/L	100
42) Toluene	7.62	91	483194	52.667	ug/L	99
44) trans-1,3-Dichloropropene	7.86	75	166037	51.542	ug/L	98
45) 1,1,2-Trichloroethane	8.05	97	116165	53.578	ug/L	99
46) Tetrachloroethene	8.21	164	92431	50.304	ug/L	98
48) 2-Hexanone	8.34	43	281388	110.401	ug/L	100
49) Dibromochloromethane	8.46	129	128025	51.901	ug/L	98
50) 1,2-Dibromoethane	8.57	107	124146	51.693	ug/L	99
51) Chlorobenzene	9.10	112	306329	51.000	ug/L	100
52) Ethylbenzene	9.23	91	515723	52.203	ug/L	99
53) m,p-Xylene	9.36	106	197856	52.169	ug/L	96
54) o-xylene	9.76	106	194808	52.951	ug/L	99
55) Styrene	9.77	104	340280	54.458	ug/L	100
56) Isopropylbenzene	10.15	105	504230	52.455	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	206396	52.780	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	159426	52.886	ug/L	100
61) Bromoform	9.94	173	97230	50.519	ug/L	98
62) 1,3-Dichlorobenzene	11.40	146	245911	50.255	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	251687	49.509	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	251367	50.806	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.64	75	47792	52.283	ug/L	96
67) 1,3,5-Trichlorobenzene	12.87	180	188979	47.871	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	159357	47.243	ug/L	99
69) Naphthalene	13.73	128	481331	49.736	ug/L	99
70) 1,2,3-Trichlorobenzene	13.97	180	172126	48.520	ug/L	99

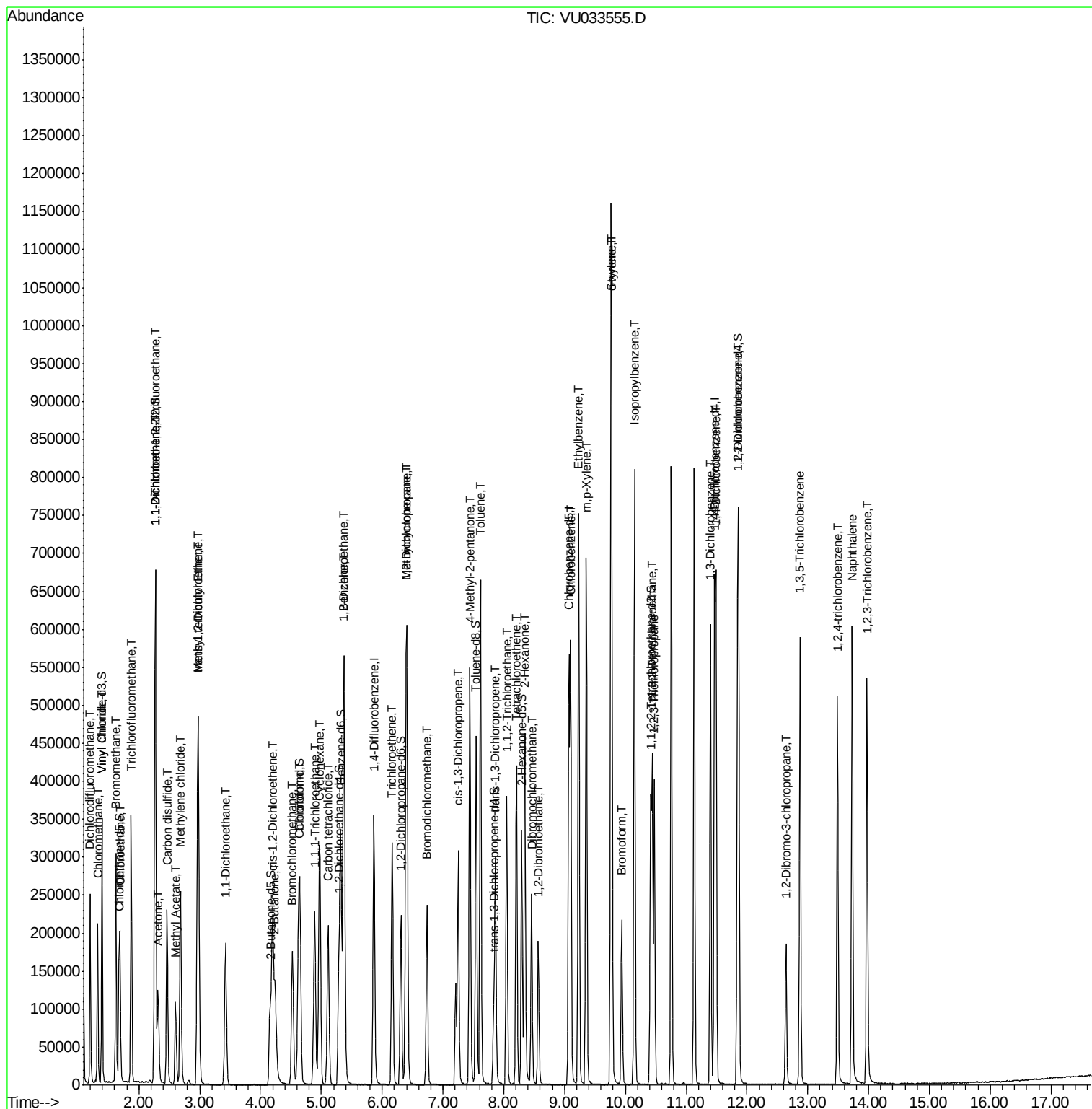
(#) = qualifier out of range (m) = manual integration (+) = signals summed

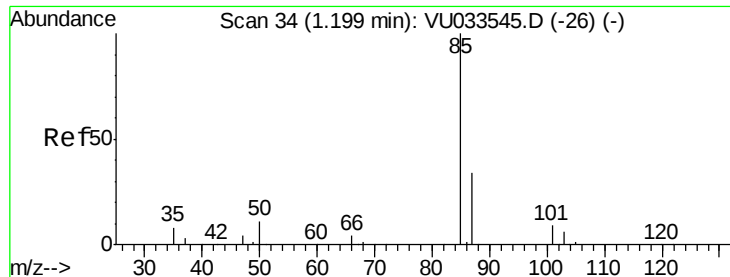
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#2

Dichlorodifluoromethane

Concen: 50.506 ug/L

RT: 1.20 min Scan# 34

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

Instrument :

MSVOA_U

ClientSampleId :

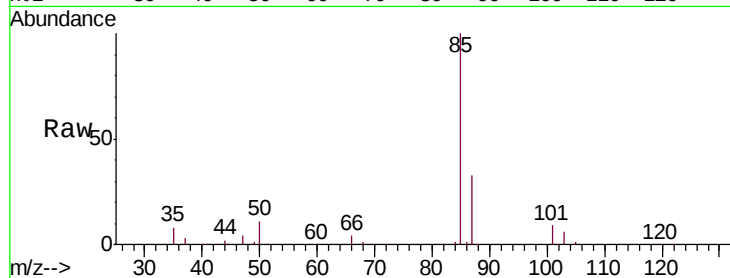
VSTD05045

Tgt Ion: 85 Resp: 139781

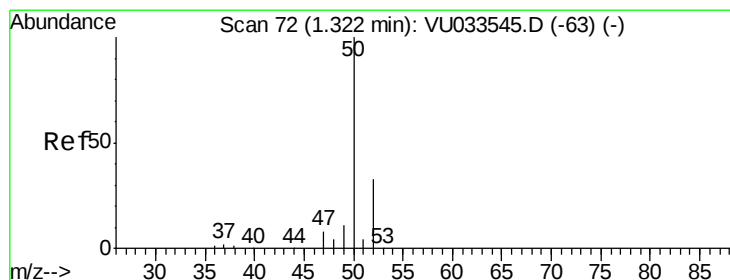
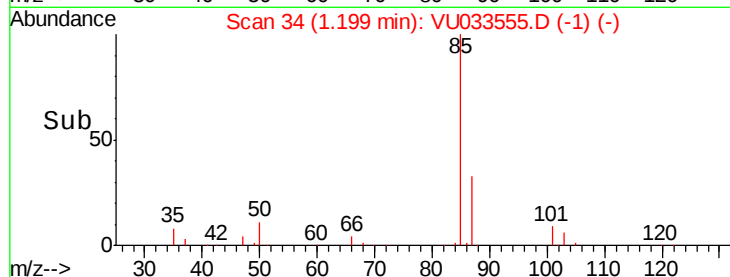
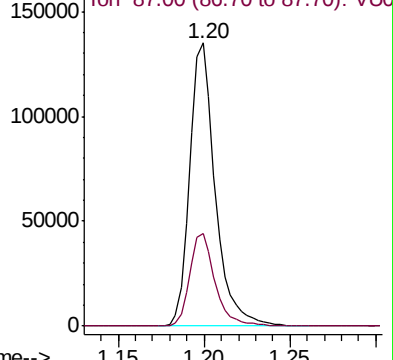
Ion Ratio Lower Upper

85 100

87 32.6 25.4 38.2



Abundance Ion 85.00 (84.70 to 85.70): VU033555.D (-1) (-)



#3

Chloromethane

Concen: 51.425 ug/L

RT: 1.32 min Scan# 72

Delta R.T. -0.00 min

Lab File: VU033555.D

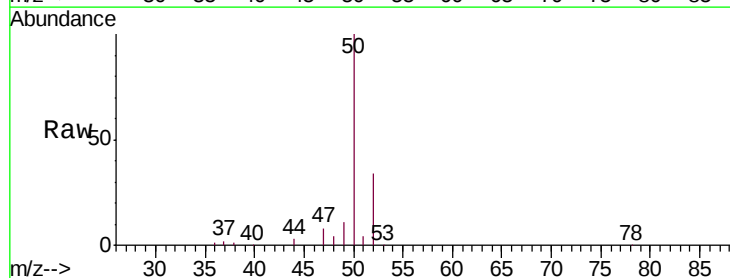
Acq: 01 Aug 2019 17:53

Tgt Ion: 50 Resp: 143361

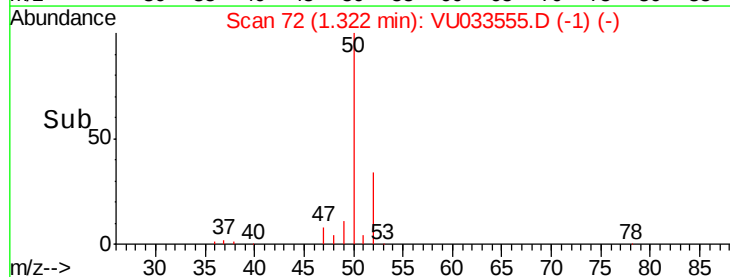
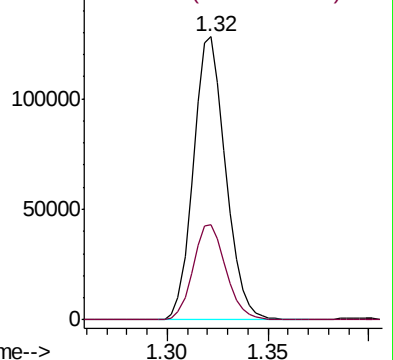
Ion Ratio Lower Upper

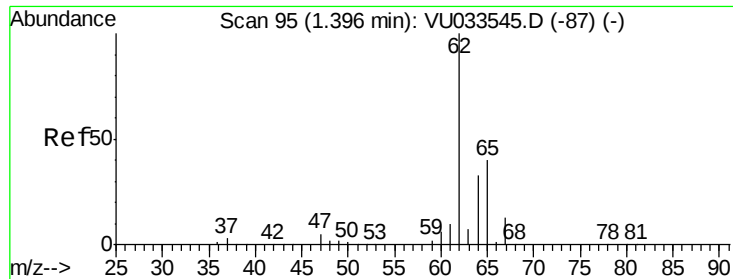
50 100

52 33.8 23.1 42.9



Abundance Ion 50.00 (49.70 to 50.70): VU033555.D (-1) (-)





#5

Vinyl chloride

Concen: 51.671 ug/L

RT: 1.40 min Scan# 95

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

Instrument :

MSVOA_U

ClientSampleId :

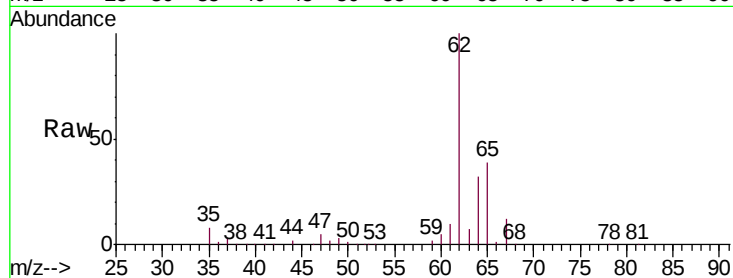
VSTD05045

Tgt Ion: 62 Resp: 154420

Ion Ratio Lower Upper

62 100

64 32.5 23.4 43.4



Abundance Ion 62.00 (61.70 to 62.70): VU033555.D (-87) (-)

Ion 64.00 (63.70 to 64.70): VU033555.D (-87) (-)

1.40

150000

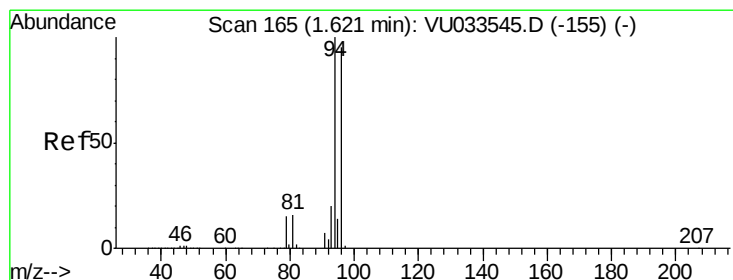
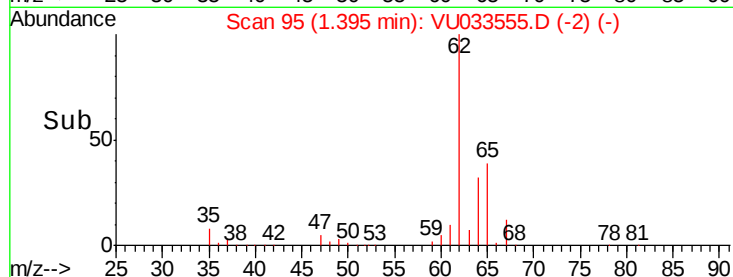
100000

50000

0

Time-->

1.35 1.40 1.45



#6

Bromomethane

Concen: 45.930 ug/L

RT: 1.62 min Scan# 165

Delta R.T. -0.00 min

Lab File: VU033555.D

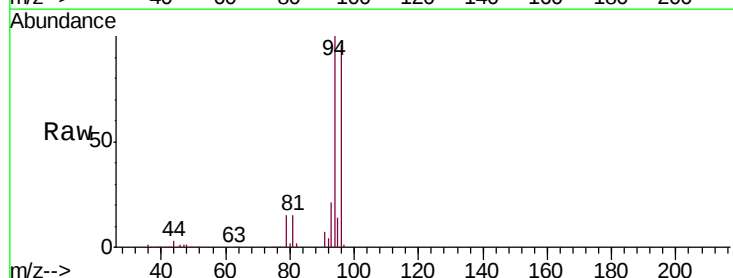
Acq: 01 Aug 2019 17:53

Tgt Ion: 94 Resp: 121111

Ion Ratio Lower Upper

94 100

96 95.6 64.4 119.6



Abundance Ion 94.00 (93.70 to 94.70): VU033555.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU033555.D (-155) (-)

1.62

120000

100000

80000

60000

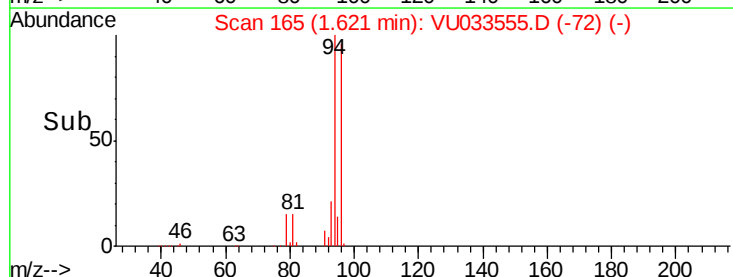
40000

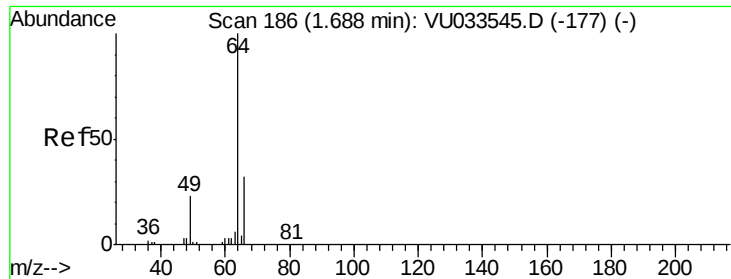
20000

0

Time-->

1.55 1.60 1.65





#8

Chloroethane

Concen: 60.113 ug/L

RT: 1.69 min Scan# 186

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

Instrument :

MSVOA_U

ClientSampleId :

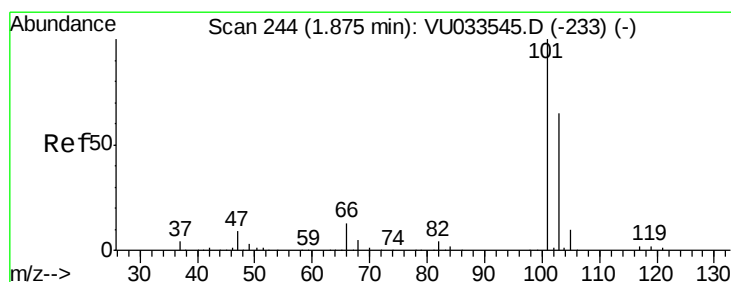
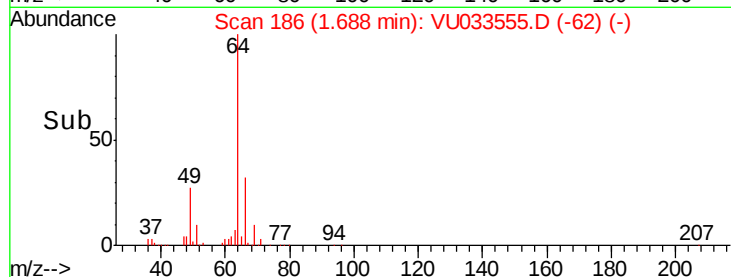
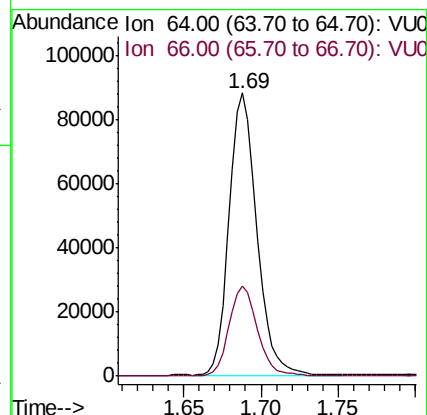
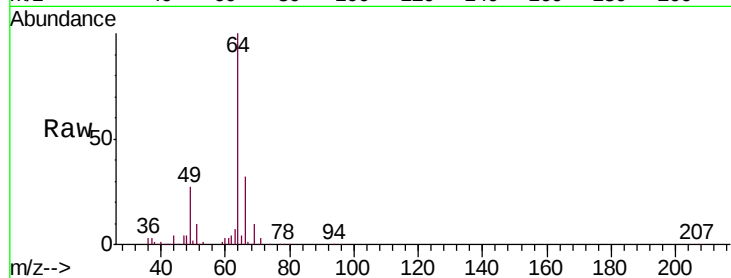
VSTD05045

Tgt Ion: 64 Resp: 109162

Ion Ratio Lower Upper

64 100

66 31.8 21.1 39.3



#9

Trichlorofluoromethane

Concen: 53.259 ug/L

RT: 1.87 min Scan# 244

Delta R.T. -0.00 min

Lab File: VU033555.D

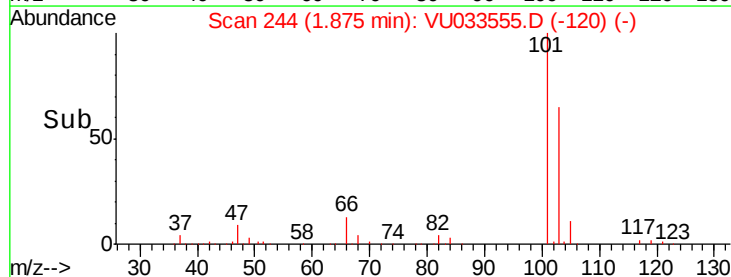
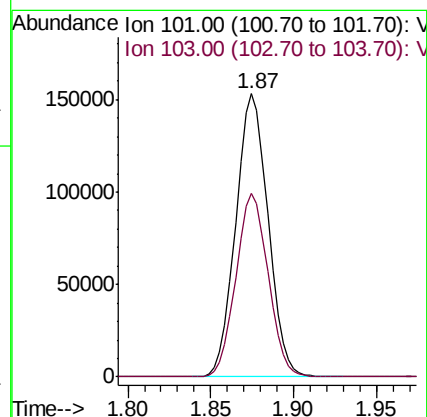
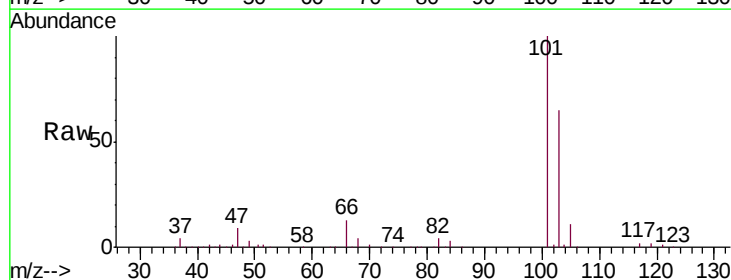
Acq: 01 Aug 2019 17:53

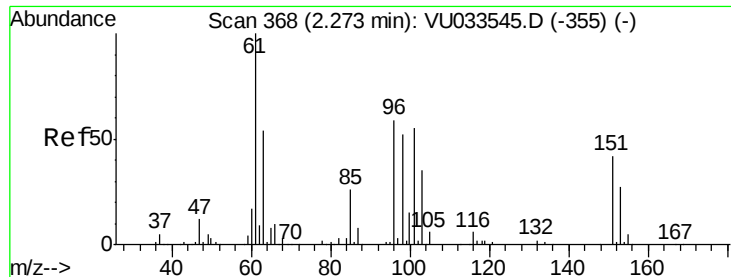
Tgt Ion: 101 Resp: 208207

Ion Ratio Lower Upper

101 100

103 64.7 51.6 77.4





#10

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

Concen: 53.021 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

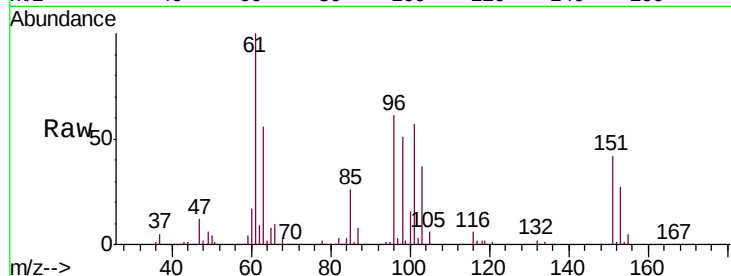
Tgt Ion: 101 Resp: 105080

Ion Ratio Lower Upper

101 100

85 44.3 35.8 53.8

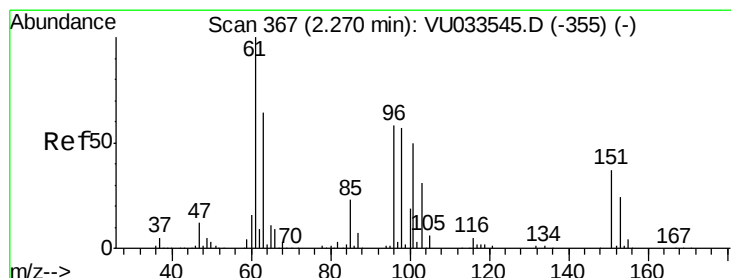
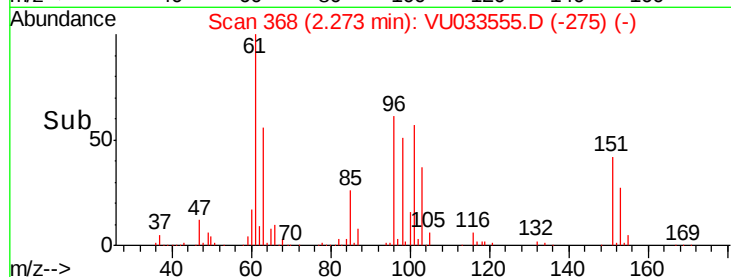
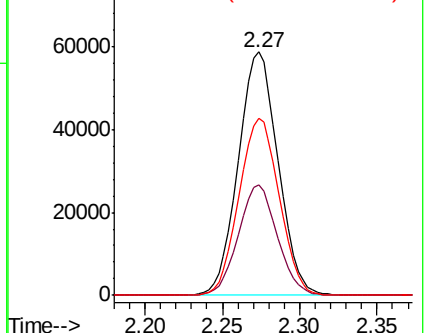
151 73.5 60.1 90.1



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: 52.066 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

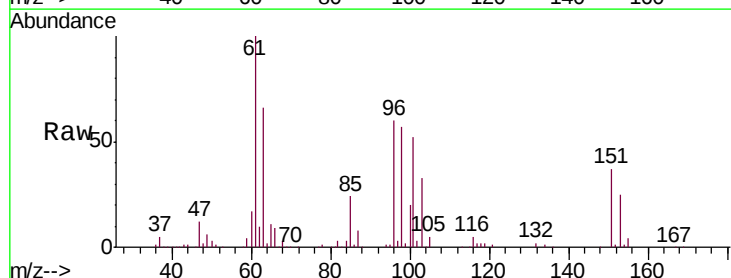
Tgt Ion: 96 Resp: 98954

Ion Ratio Lower Upper

96 100

61 166.7 119.3 221.5

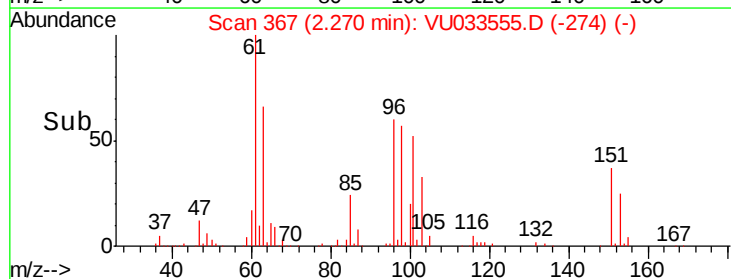
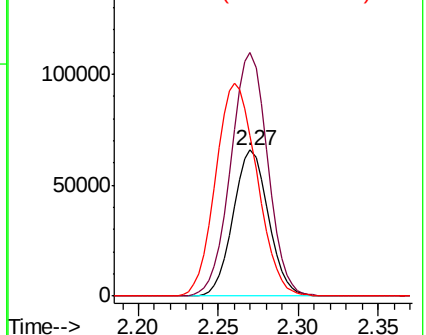
63 110.0 86.6 160.8

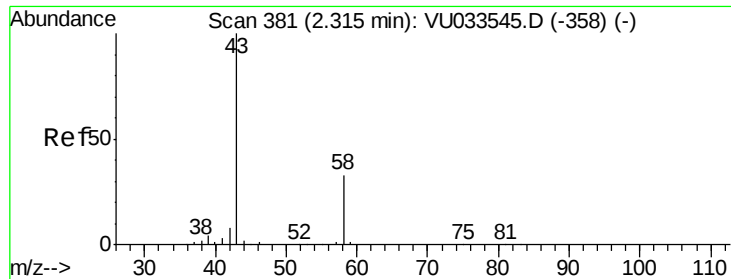


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 102.763 ug/L

RT: 2.32 min Scan# 382

Delta R.T. 0.00 min

Lab File: VU033555.D

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ClientSampleId :

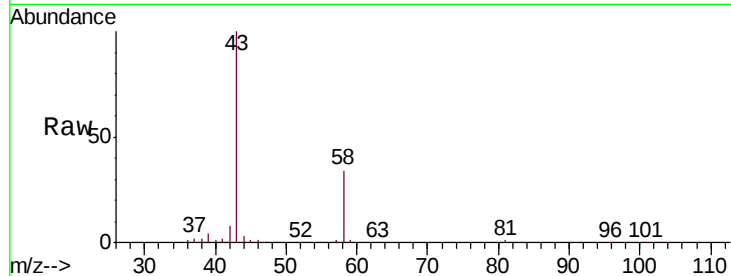
VSTD05045

Tgt Ion: 43 Resp: 148587

Ion Ratio Lower Upper

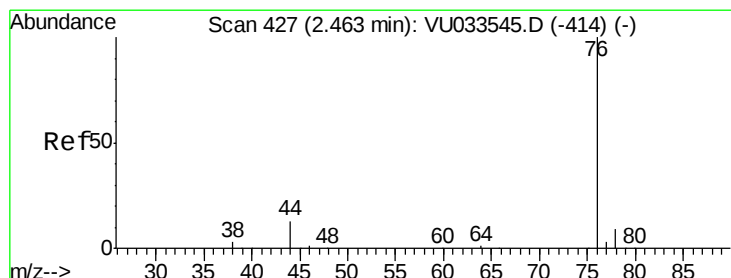
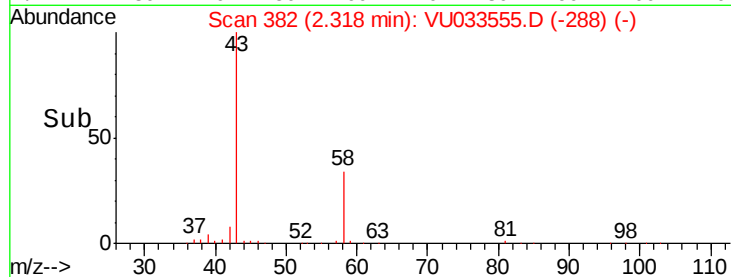
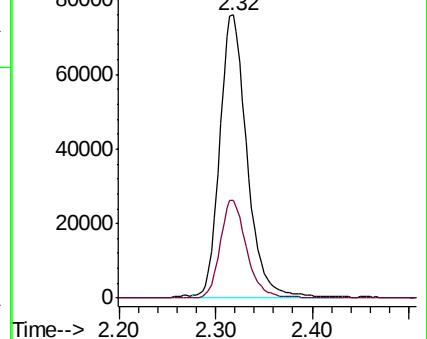
43 100

58 33.2 0.0 66.2



Abundance Ion 43.00 (42.70 to 43.70): VU033545.D (-358) (-)

Ion 58.00 (57.70 to 58.70): VU033545.D (-358) (-)



#14

Carbon disulfide

Concen: 48.371 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033555.D

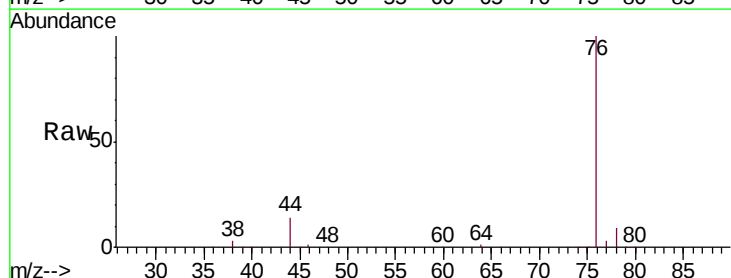
Acq: 01 Aug 2019 17:53

Tgt Ion: 76 Resp: 288345

Ion Ratio Lower Upper

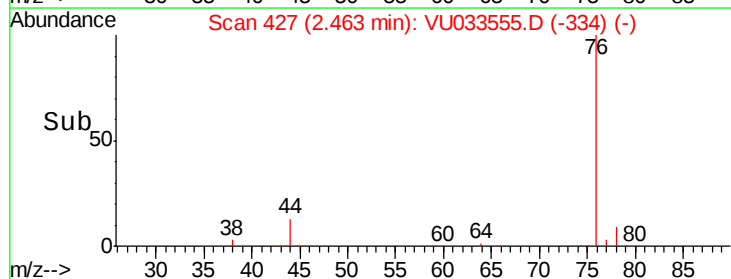
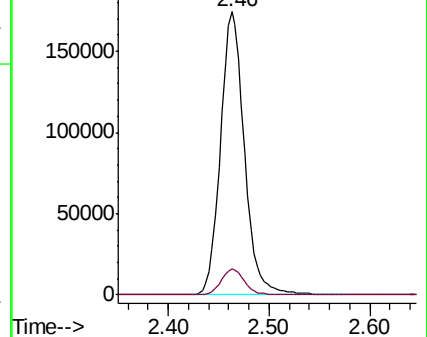
76 100

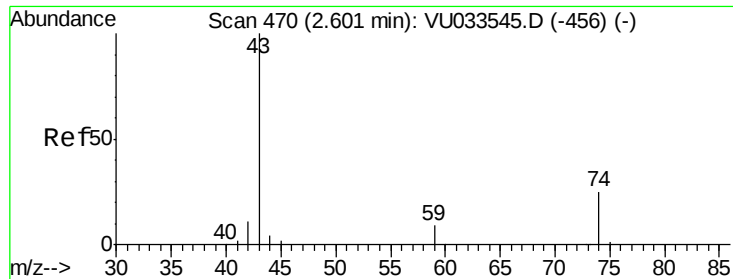
78 9.1 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU033545.D (-414) (-)

Ion 78.00 (77.70 to 78.70): VU033545.D (-414) (-)

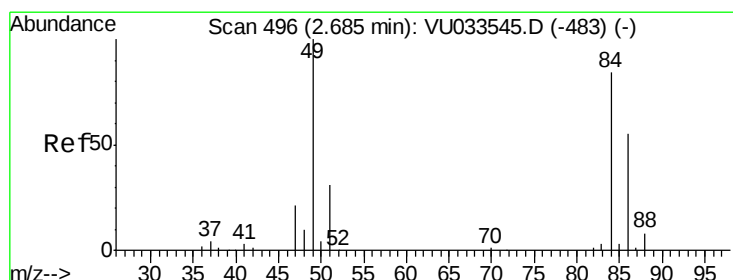
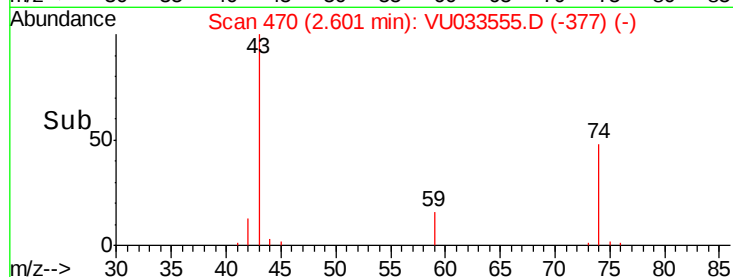
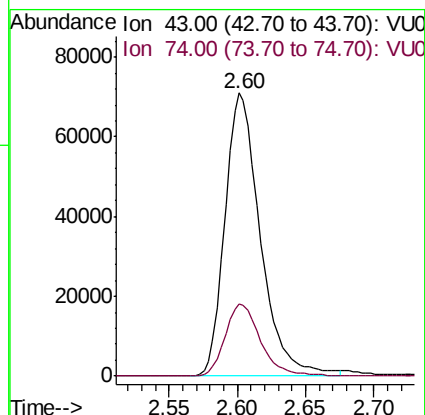
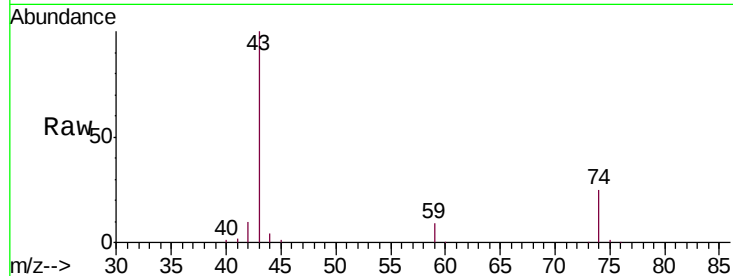




#15
Methyl Acetate
Concen: 55.632 ug/L
RT: 2.60 min Scan# 470
Delta R.T. -0.00 min
Lab File: VU033555.D
Acq: 01 Aug 2019 17:53

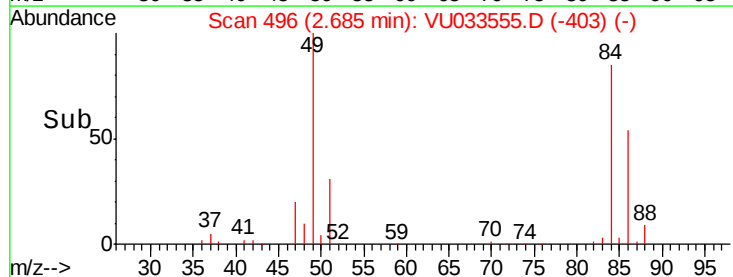
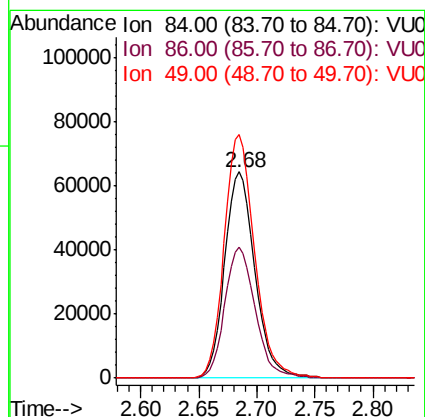
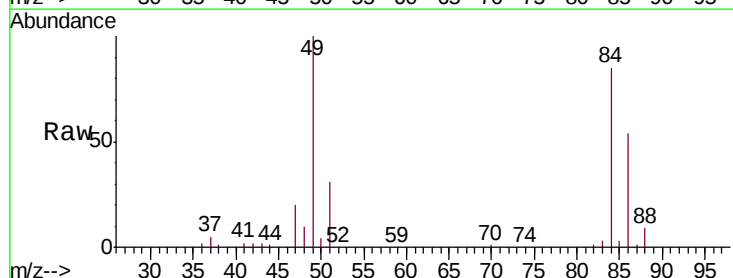
Instrument :
MSVOA_U
ClientSampleId :
VSTD05045

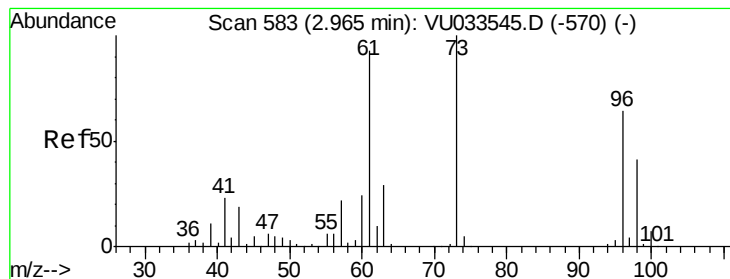
Tgt Ion: 43 Resp: 128064
Ion Ratio Lower Upper
43 100
74 25.4 20.1 30.1



#16
Methylene chloride
Concen: 53.552 ug/L
RT: 2.68 min Scan# 496
Delta R.T. -0.00 min
Lab File: VU033555.D
Acq: 01 Aug 2019 17:53

Tgt Ion: 84 Resp: 116256
Ion Ratio Lower Upper
84 100
86 63.5 45.7 84.9
49 118.0 85.0 158.0





#17

trans-1,2-Dichloroethene

Concen: 51.168 ug/L

RT: 2.96 min Scan# 583

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

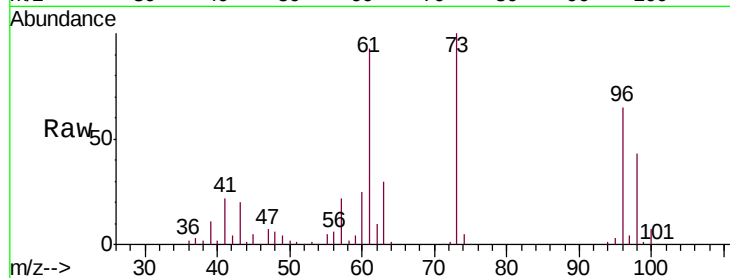
Tgt Ion: 96 Resp: 101885

Ion Ratio Lower Upper

96 100

61 142.1 98.3 182.5

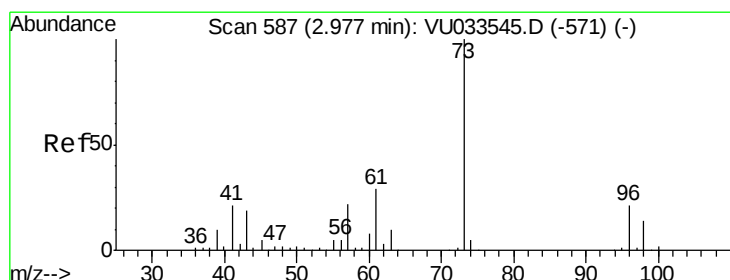
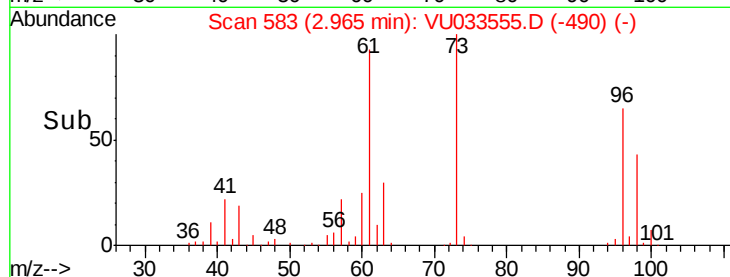
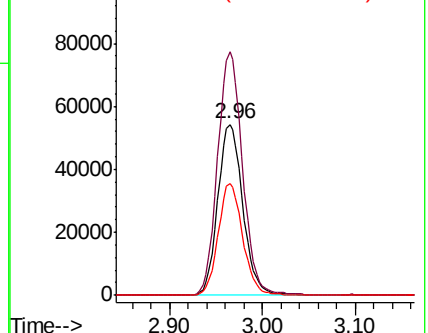
98 65.6 44.3 82.3



Abundance Ion 96.00 (95.70 to 96.70): VU033545.D (-570) (-)

Ion 61.00 (60.70 to 61.70): VU033545.D (-570) (-)

Ion 98.00 (97.70 to 98.70): VU033545.D (-570) (-)



#18

Methyl tert-butyl Ether

Concen: 53.408 ug/L

RT: 2.98 min Scan# 588

Delta R.T. 0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

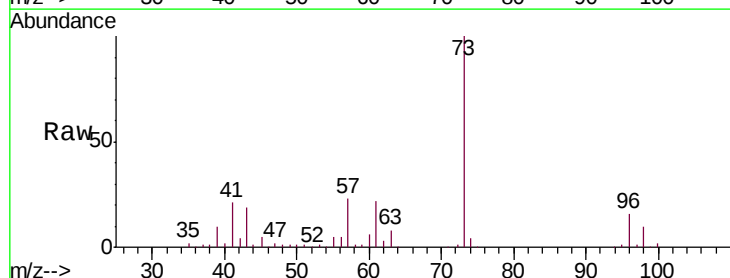
Tgt Ion: 73 Resp: 324303

Ion Ratio Lower Upper

73 100

43 19.5 15.4 23.2

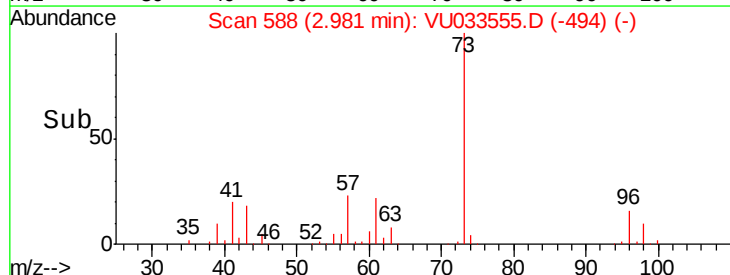
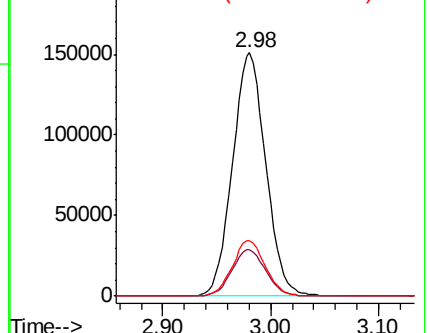
57 22.6 17.4 26.2

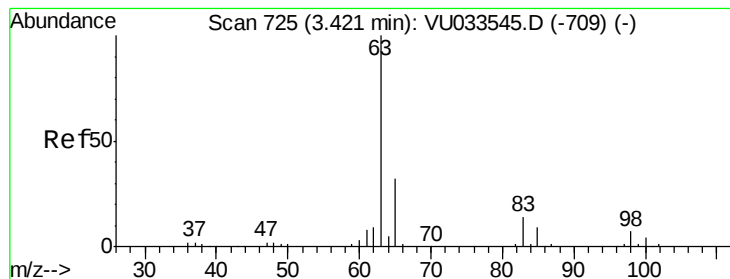


Abundance Ion 73.00 (72.70 to 73.70): VU033545.D (-571) (-)

Ion 43.00 (42.70 to 43.70): VU033545.D (-571) (-)

Ion 57.00 (56.70 to 57.70): VU033545.D (-571) (-)





#19

1,1-Dichloroethane

Concen: 53.694 ug/L

RT: 3.42 min Scan# 726

Delta R.T. 0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

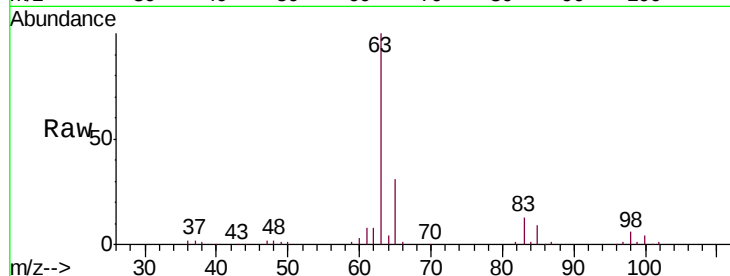
Tgt Ion: 63 Resp: 200684

Ion Ratio Lower Upper

63 100

65 31.1 22.0 40.8

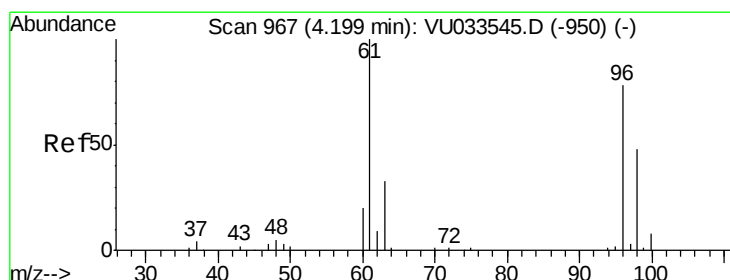
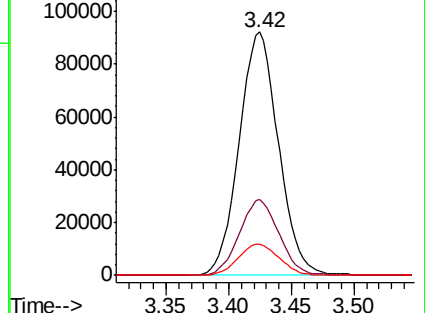
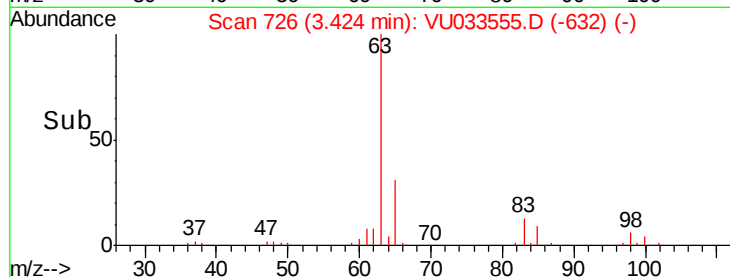
83 12.7 9.5 17.7



Abundance Ion 63.00 (62.70 to 63.70): VU033555.D (-632) (-)

Ion 65.00 (64.70 to 65.70): VU033555.D (-632) (-)

Ion 83.00 (82.70 to 83.70): VU033555.D (-632) (-)



#20

cis-1,2-Dichloroethene

Concen: 51.753 ug/L

RT: 4.20 min Scan# 967

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

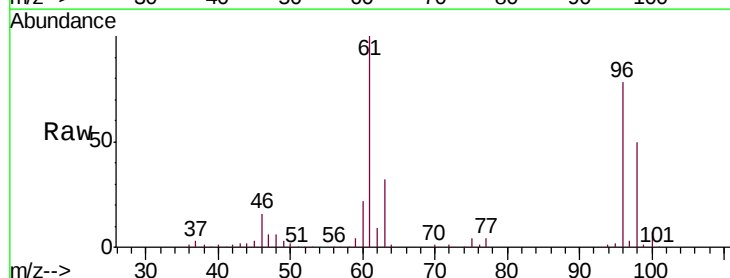
Tgt Ion: 96 Resp: 115667

Ion Ratio Lower Upper

96 100

61 128.8 91.3 169.6

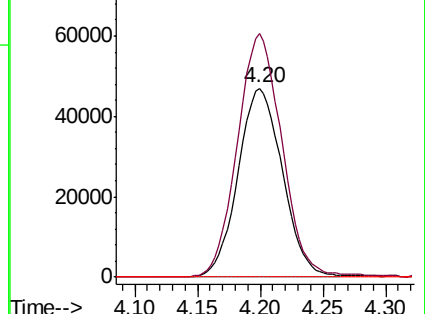
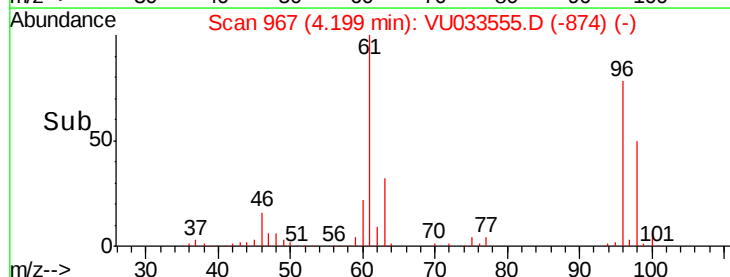
68 0.0 0.0 0.0

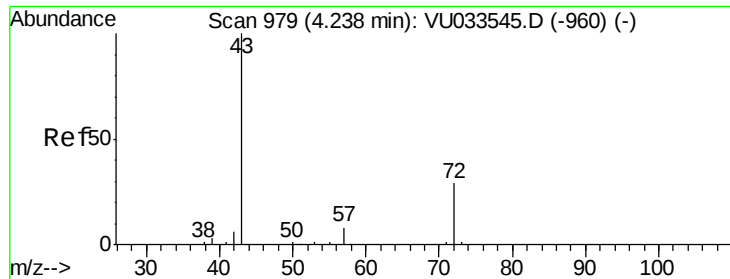


Abundance Ion 96.00 (95.70 to 96.70): VU033555.D (-874) (-)

Ion 61.00 (60.70 to 61.70): VU033555.D (-874) (-)

Ion 68.00 (67.70 to 68.70): VU033555.D (-874) (-)





#22

2-Butanone

Concen: 112.661 ug/L

RT: 4.24 min Scan# 980

Delta R.T. 0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

Instrument :

MSVOA_U

ClientSampleId :

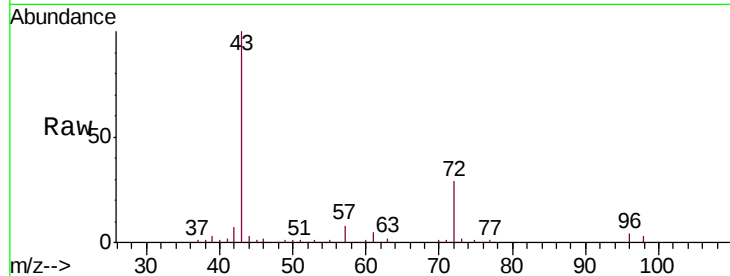
VSTD05045

Tgt Ion: 43 Resp: 194474

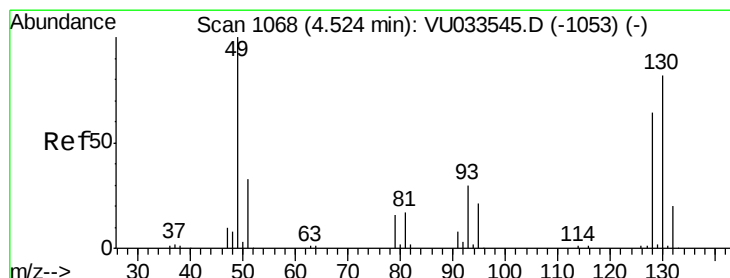
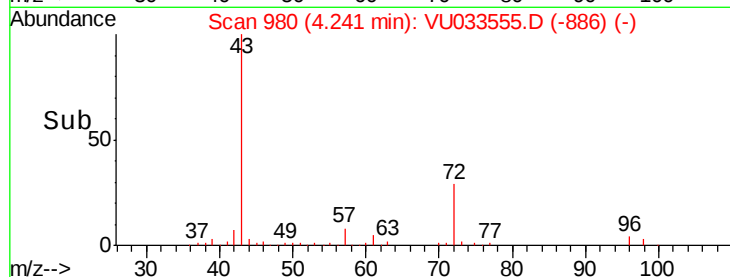
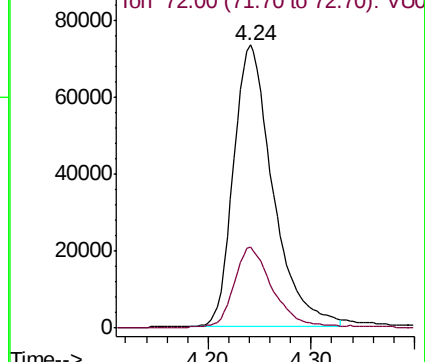
Ion Ratio Lower Upper

43 100

72 28.5 14.2 42.6



Abundance Ion 43.00 (42.70 to 43.70): VU033555.D (-980) (-)



#23

Bromochloromethane

Concen: 52.037 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

Tgt Ion: 128 Resp: 60682

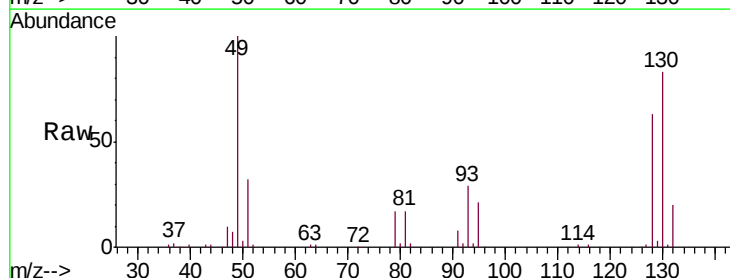
Ion Ratio Lower Upper

128 100

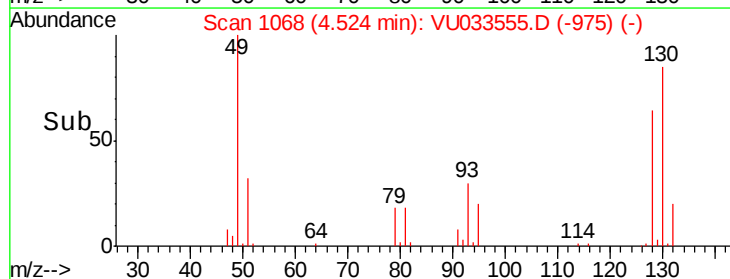
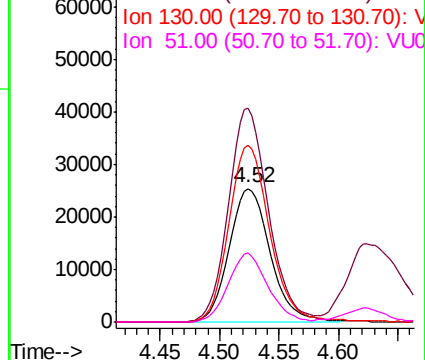
49 159.8 108.4 201.2

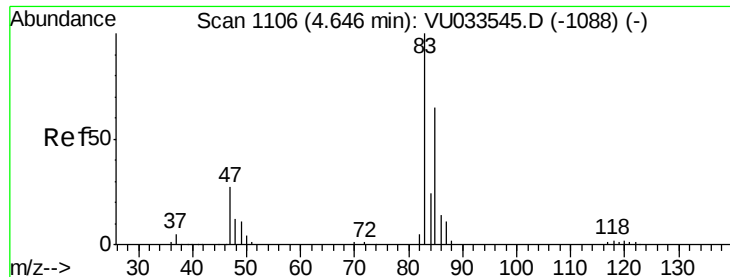
130 132.5 89.7 166.5

51 51.5 38.9 58.3



Abundance Ion 128.00 (127.70 to 128.70): VU033555.D (-1068) (-)

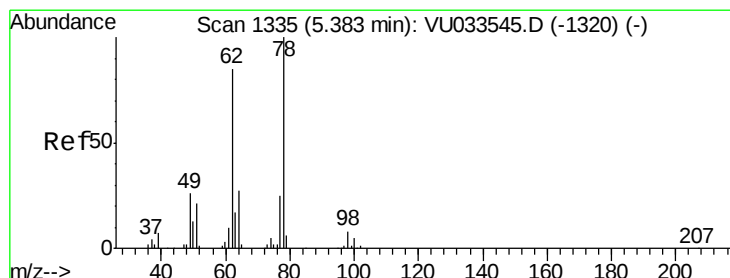
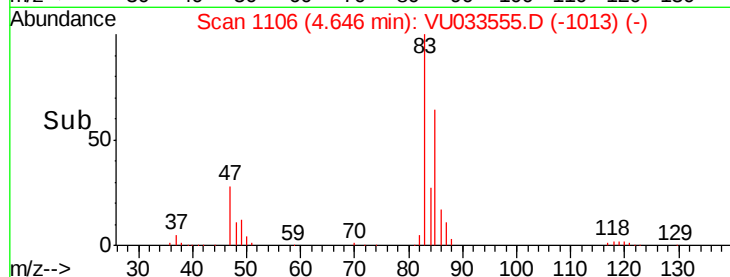
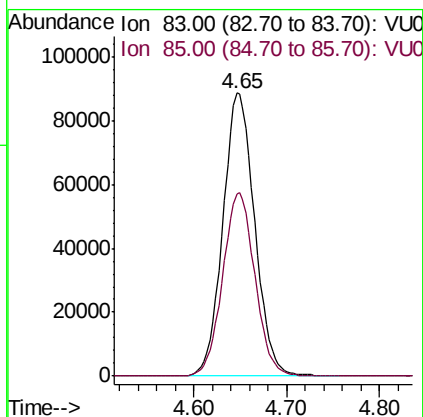
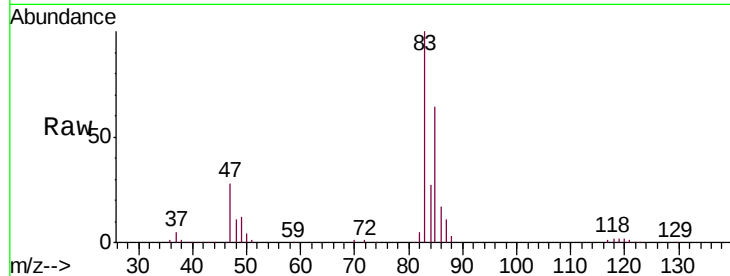




#25
Chloroform
Concen: 53.481 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033555.D
Acq: 01 Aug 2019 17:53

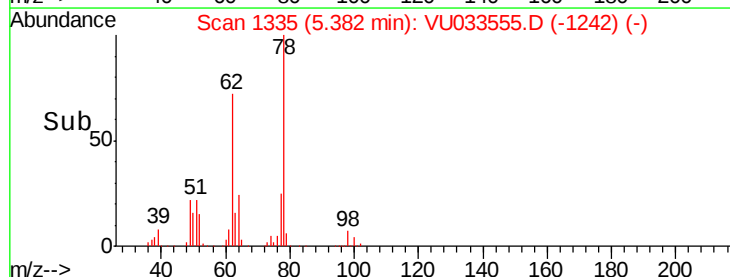
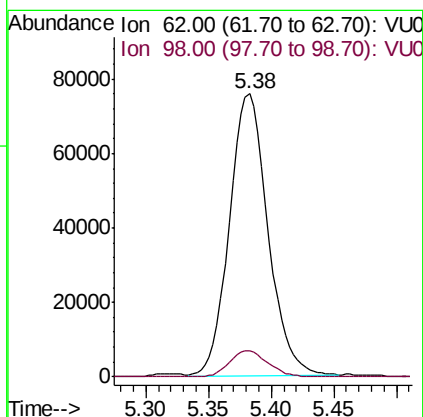
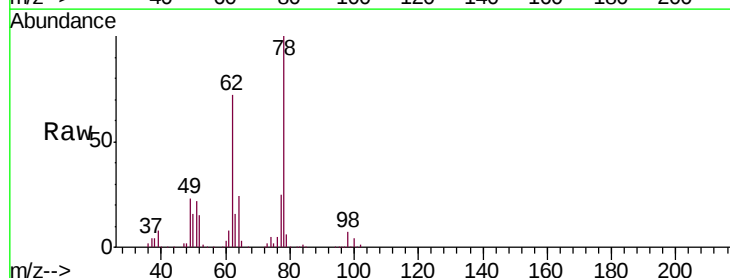
Instrument :
MSVOA_U
ClientSampleId :
VSTD05045

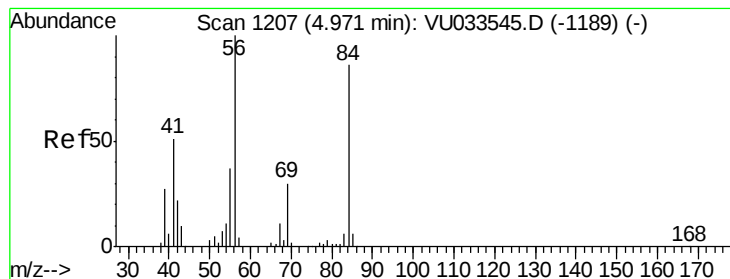
Tgt Ion: 83 Resp: 210352
Ion Ratio Lower Upper
83 100
85 64.2 45.6 84.8



#27
1,2-Dichloroethane
Concen: 53.309 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. -0.00 min
Lab File: VU033555.D
Acq: 01 Aug 2019 17:53

Tgt Ion: 62 Resp: 161451
Ion Ratio Lower Upper
62 100
98 9.1 7.2 10.8





#29

Cyclohexane

Concen: 51.236 ug/L

RT: 4.97 min Scan# 1208

Delta R.T. 0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

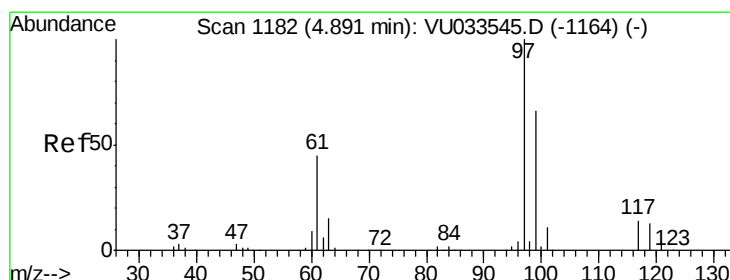
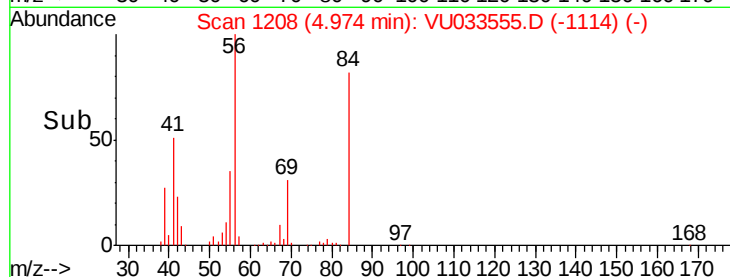
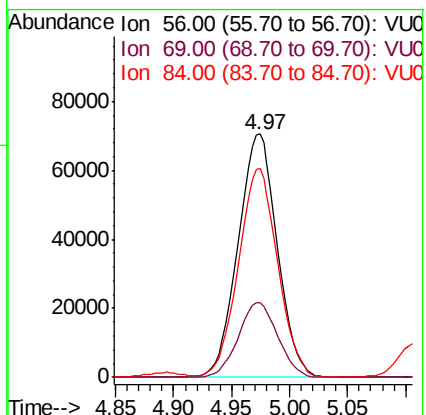
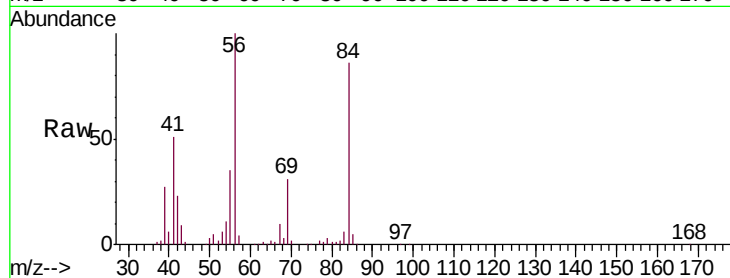
Tgt Ion: 56 Resp: 165289

Ion Ratio Lower Upper

56 100

69 31.0 25.0 37.6

84 86.3 71.6 107.4



#30

1,1,1-Trichloroethane

Concen: 51.123 ug/L

RT: 4.89 min Scan# 1182

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

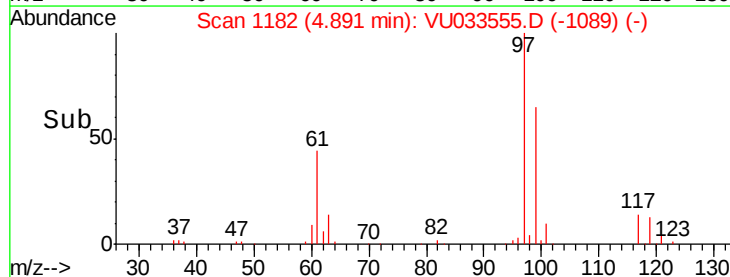
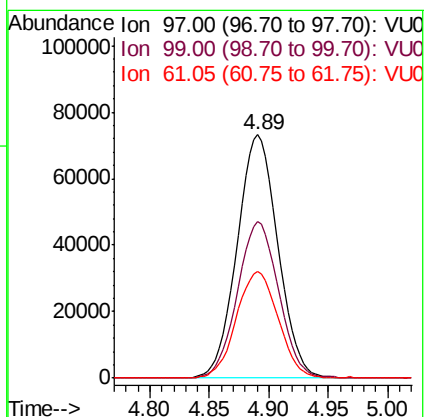
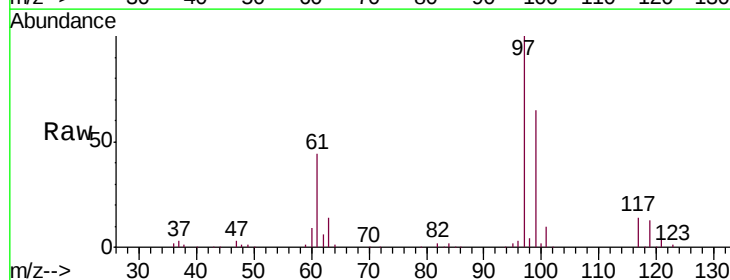
Tgt Ion: 97 Resp: 173974

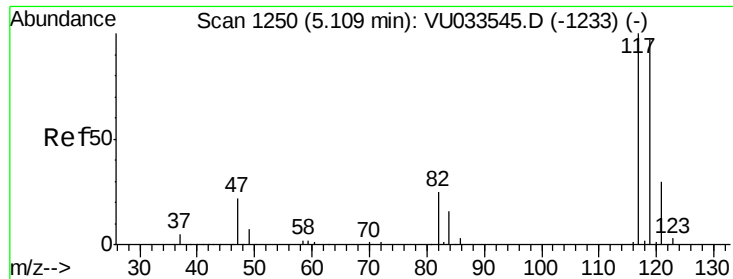
Ion Ratio Lower Upper

97 100

99 64.9 51.1 76.7

61 44.8 35.5 53.3





#31

Carbon tetrachloride

Concen: 51.794 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

Instrument :

MSVOA_U

ClientSampleId :

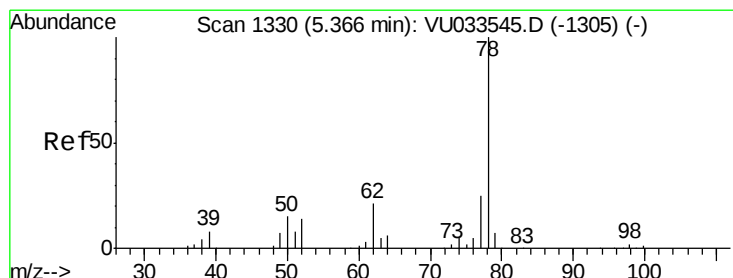
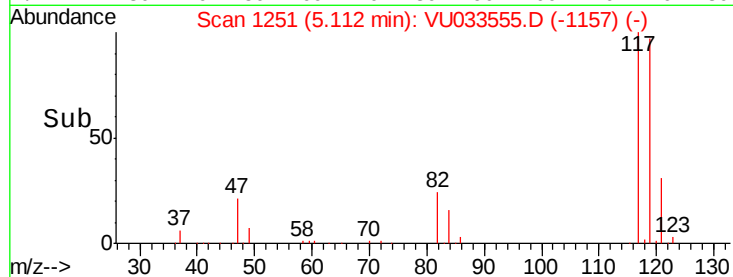
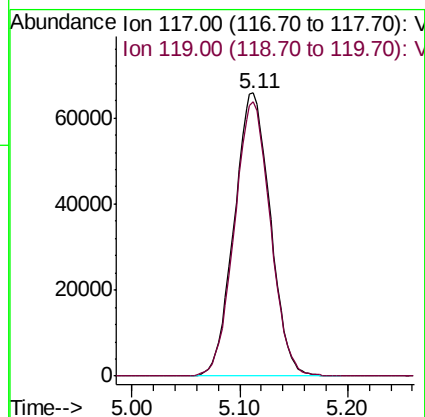
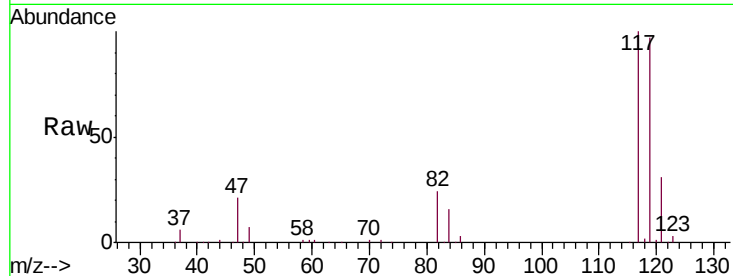
VSTD05045

Tgt Ion:117 Resp: 153494

Ion Ratio Lower Upper

117 100

119 96.4 77.0 115.4



#33

Benzene

Concen: 52.574 ug/L

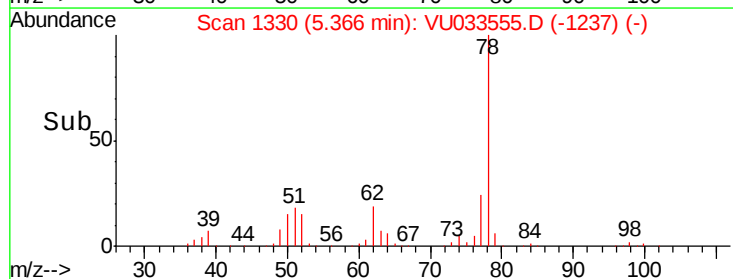
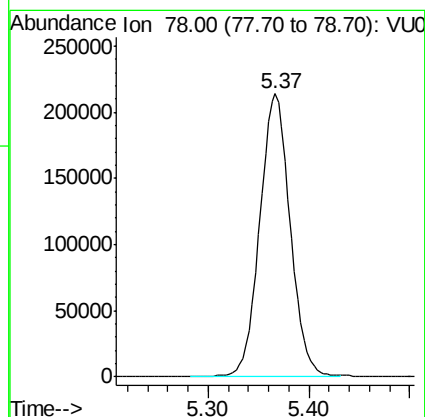
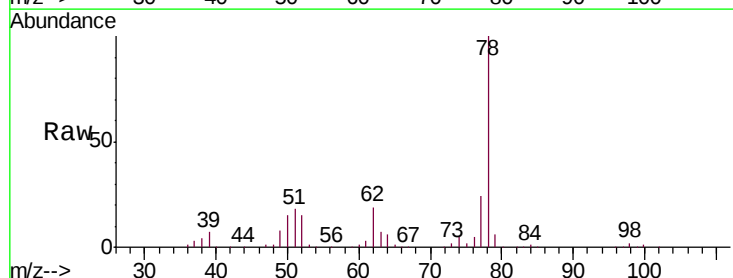
RT: 5.37 min Scan# 1330

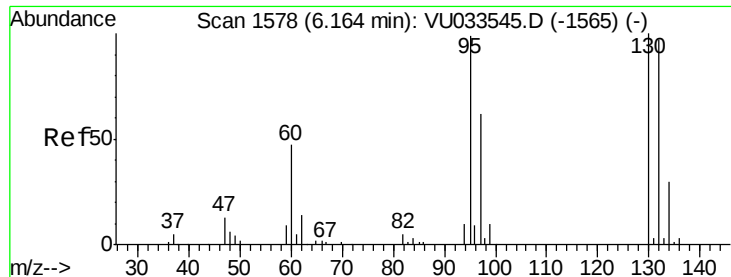
Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

Tgt Ion: 78 Resp: 448568

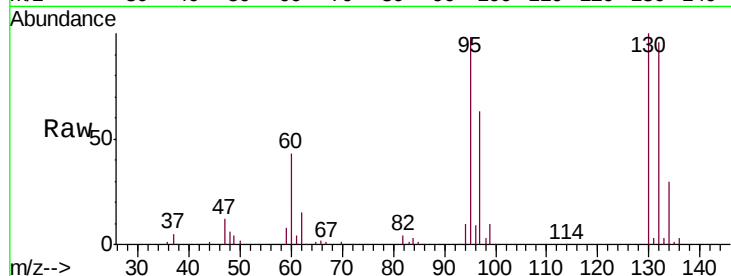




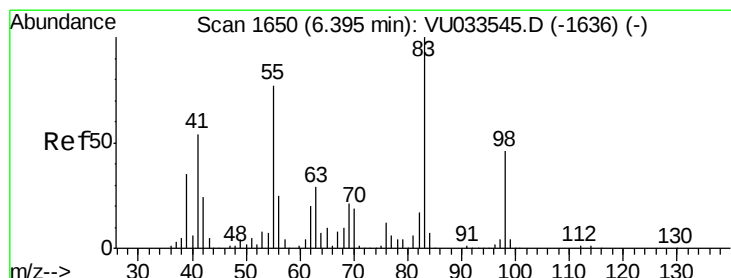
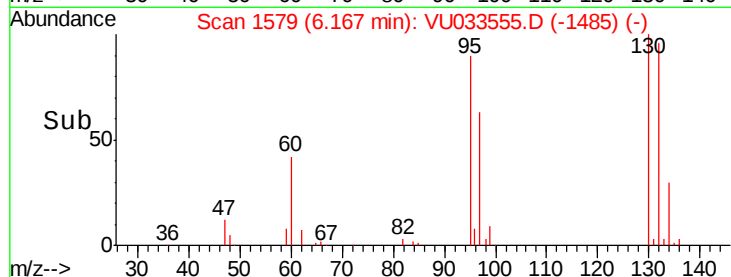
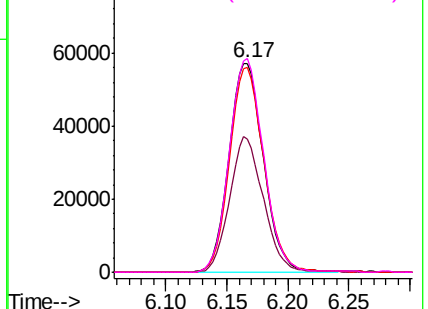
#34
 Trichloroethene
 Concen: 49.991 ug/L
 RT: 6.17 min Scan# 1579
 Delta R.T. 0.00 min
 Lab File: VU033555.D
 Acq: 01 Aug 2019 17:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05045

Tgt Ion: 95 Resp: 112513
 Ion Ratio Lower Upper
 95 100
 97 63.9 44.7 83.1
 132 98.1 66.8 124.0
 130 102.1 71.6 133.0

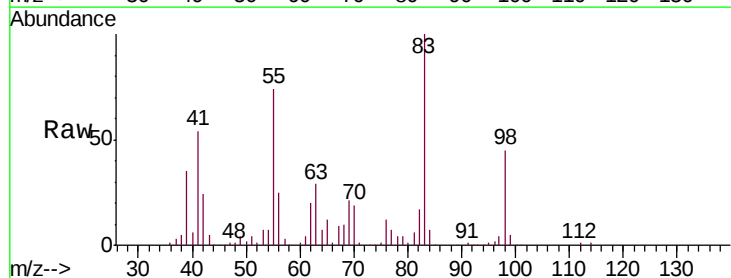


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

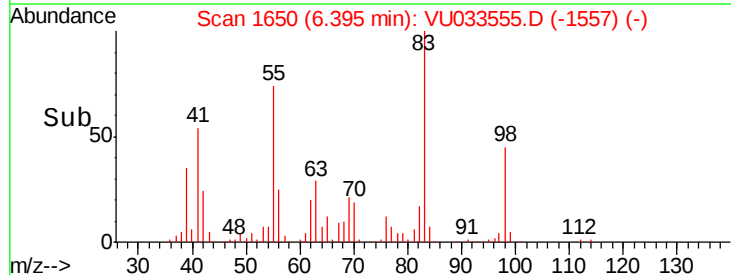
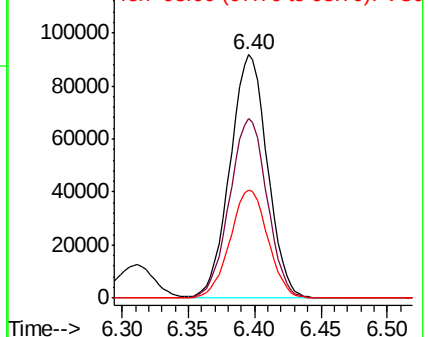


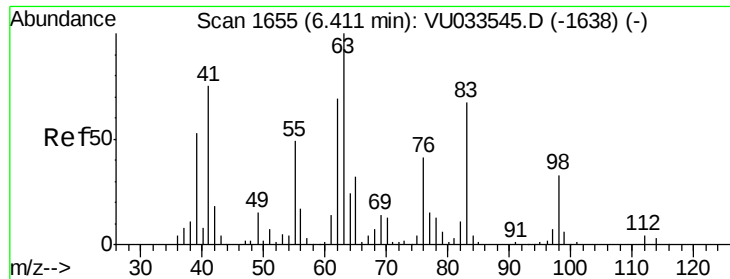
#35
 Methylcyclohexane
 Concen: 51.219 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. -0.00 min
 Lab File: VU033555.D
 Acq: 01 Aug 2019 17:53

Tgt Ion: 83 Resp: 179888
 Ion Ratio Lower Upper
 83 100
 55 74.2 60.2 90.4
 98 44.8 36.5 54.7



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

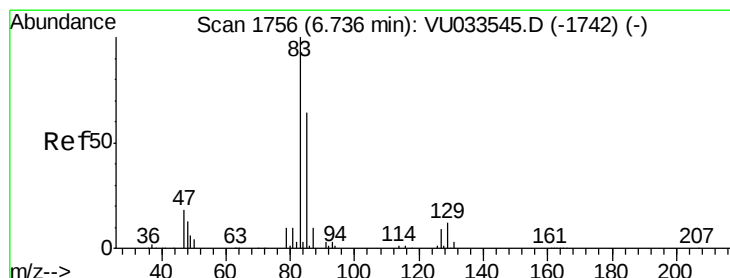
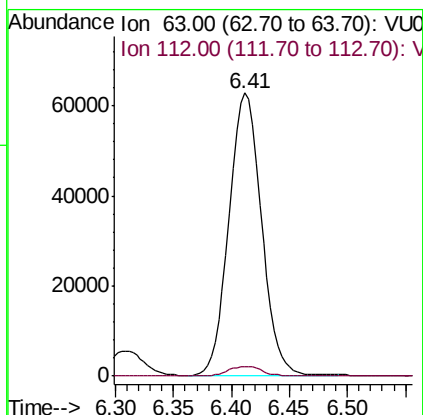
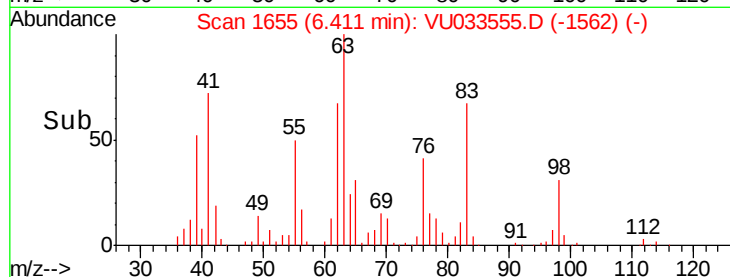
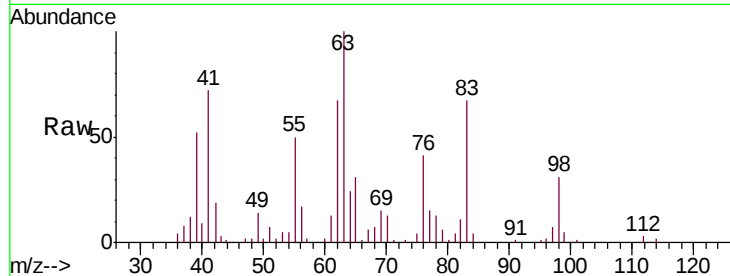




#37
 1,2-Dichloropropane
 Concen: 53.387 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033555.D
 Acq: 01 Aug 2019 17:53

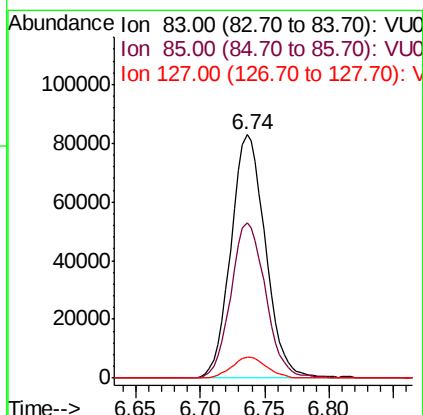
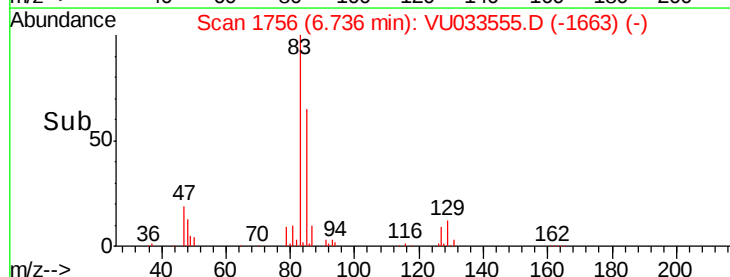
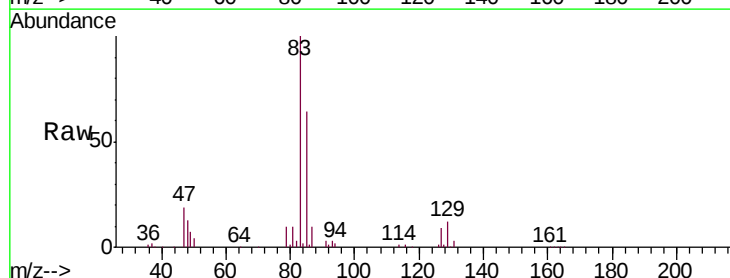
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05045

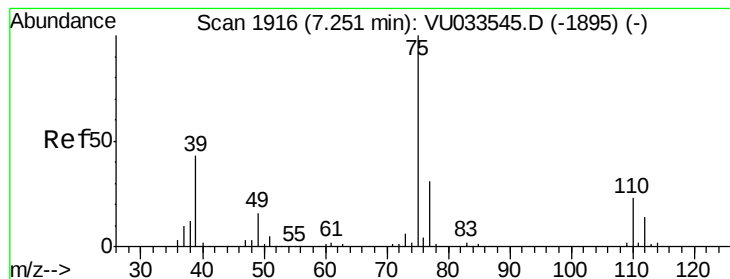
Tgt Ion: 63 Resp: 121926
 Ion Ratio Lower Upper
 63 100
 112 3.6 3.0 4.6



#38
 Bromodichloromethane
 Concen: 52.373 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU033555.D
 Acq: 01 Aug 2019 17:53

Tgt Ion: 83 Resp: 154626
 Ion Ratio Lower Upper
 83 100
 85 63.9 45.1 83.9
 127 8.7 7.2 10.8



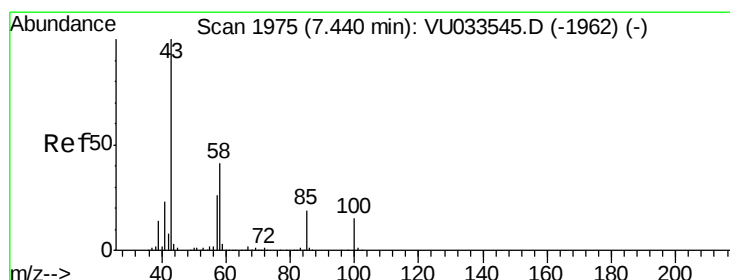
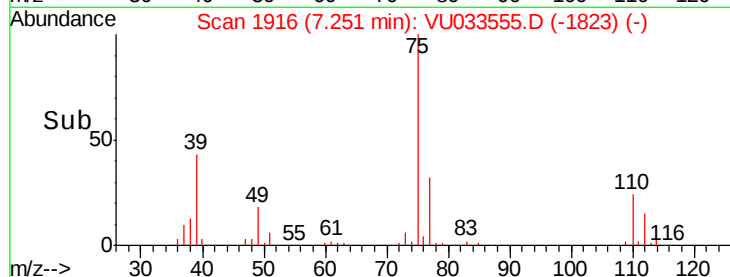
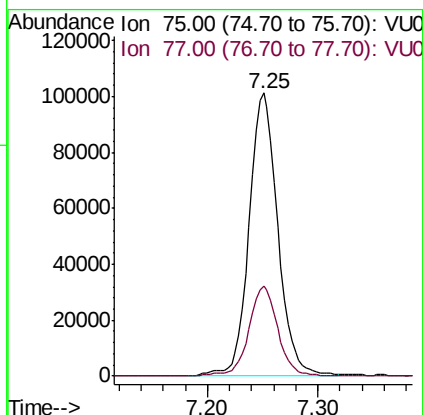
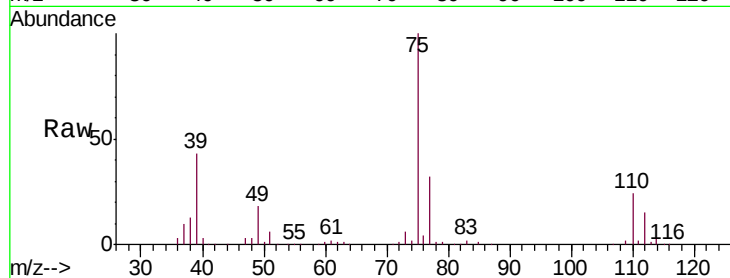


#39

cis-1,3-Dichloropropene
 Concen: 51.392 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VU033555.D
 Acq: 01 Aug 2019 17:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05045

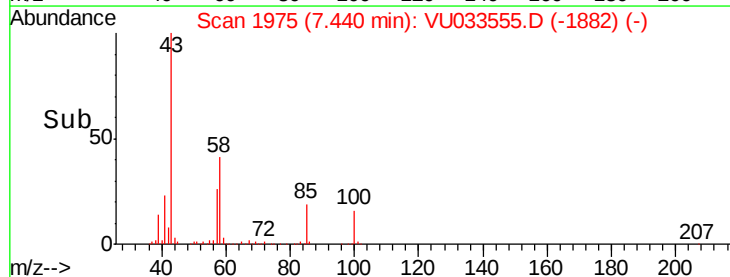
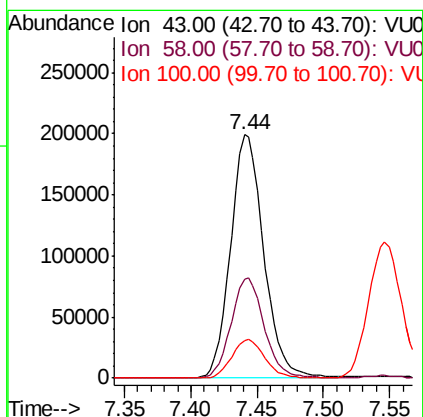
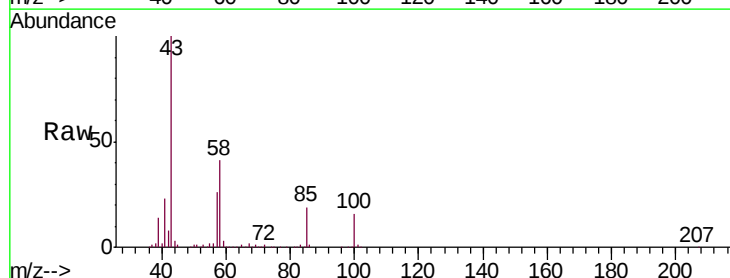
Tgt Ion: 75 Resp: 183192
 Ion Ratio Lower Upper
 75 100
 77 31.8 22.3 41.5

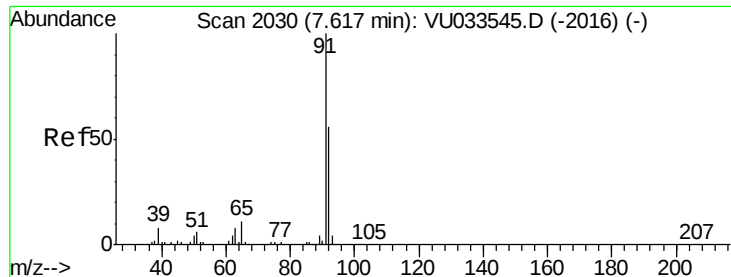


#40

4-Methyl-2-pentanone
 Concen: 109.984 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. -0.00 min
 Lab File: VU033555.D
 Acq: 01 Aug 2019 17:53

Tgt Ion: 43 Resp: 346804
 Ion Ratio Lower Upper
 43 100
 58 41.0 32.8 49.2
 100 15.9 12.9 19.3





#42

Toluene

Concen: 52.667 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

Instrument :

MSVOA_U

ClientSampleId :

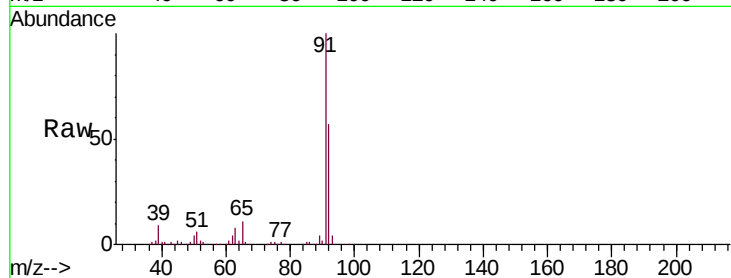
VSTD05045

Tgt Ion: 91 Resp: 483194

Ion Ratio Lower Upper

91 100

92 56.7 40.2 74.6



Abundance Ion 91.00 (90.70 to 91.70): VU033555.D (-1937) (-)

Ion 92.00 (91.70 to 92.70): VU033555.D (-1937) (-)

7.62

300000

250000

200000

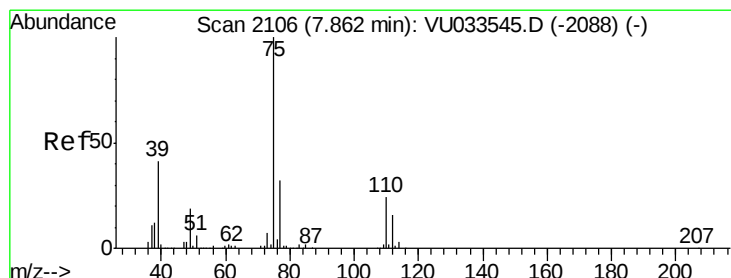
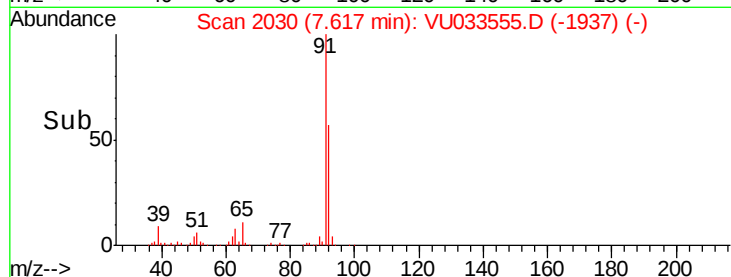
150000

100000

50000

0

Time--> 7.55 7.60 7.65 7.70



#44

trans-1,3-Dichloropropene

Concen: 51.542 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033555.D

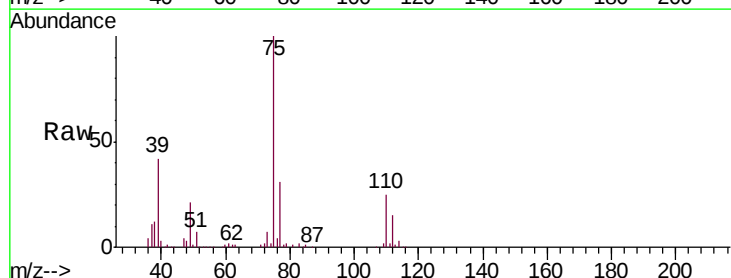
Acq: 01 Aug 2019 17:53

Tgt Ion: 75 Resp: 166037

Ion Ratio Lower Upper

75 100

77 31.4 22.7 42.1



Abundance Ion 75.00 (74.70 to 75.70): VU033555.D (-2013) (-)

Ion 77.00 (76.70 to 77.70): VU033555.D (-2013) (-)

7.86

100000

80000

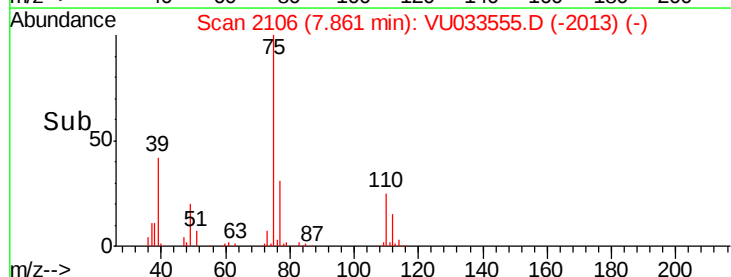
60000

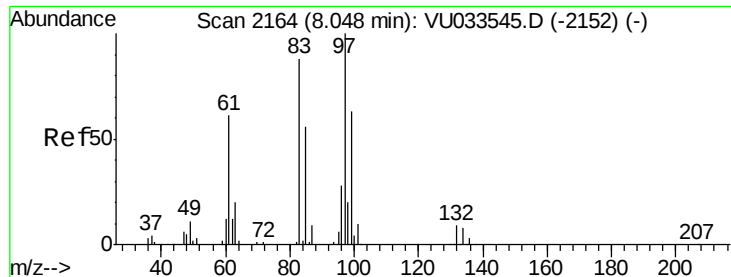
40000

20000

0

Time--> 7.80 7.90

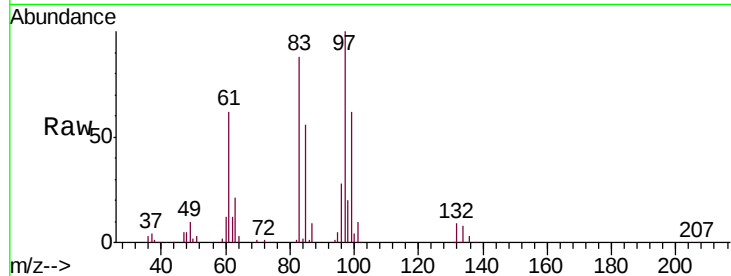




#45
 1,1,2-Trichloroethane
 Concen: 53.578 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU033555.D
 Acq: 01 Aug 2019 17:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05045

Tgt Ion:	97	Resp:	116165
Ion	Ratio	Lower	Upper
97	100		
99	62.0	44.4	82.4
83	87.6	61.5	114.1
85	55.7	40.4	75.0



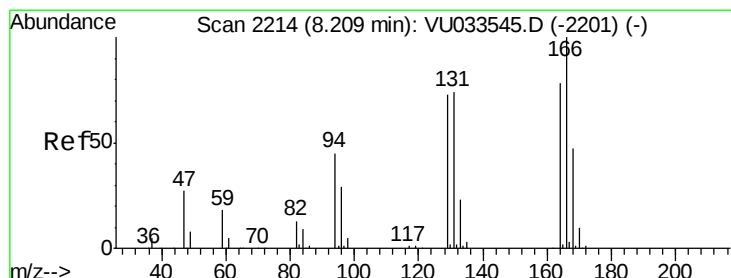
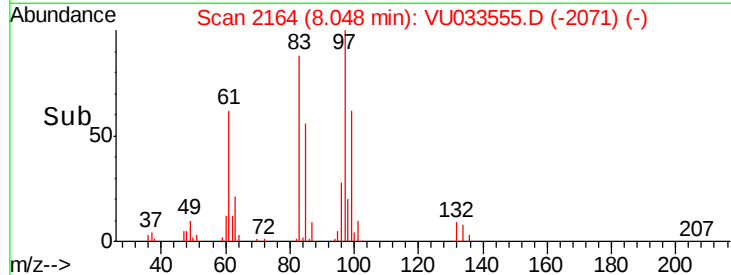
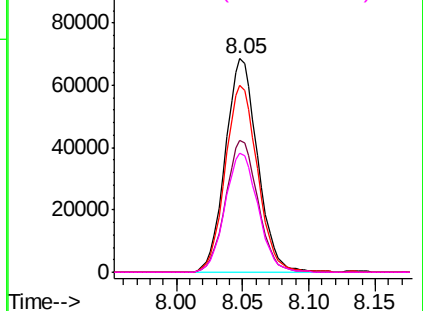
Abundance

Ion 97.00 (96.70 to 97.70): VU0

Ion 99.00 (98.70 to 99.70): VU0

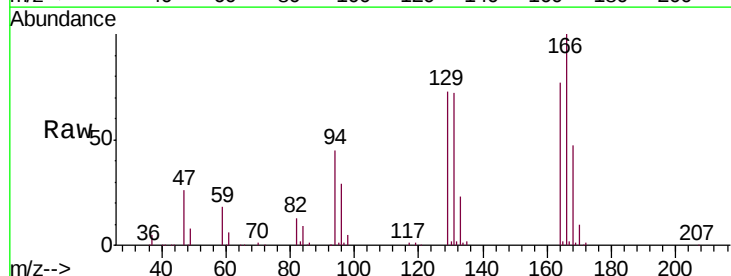
Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0



#46
 Tetrachloroethene
 Concen: 50.304 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. -0.00 min
 Lab File: VU033555.D
 Acq: 01 Aug 2019 17:53

Tgt Ion:	164	Resp:	92431
Ion	Ratio	Lower	Upper
164	100		
129	94.0	65.5	121.7
131	93.0	63.3	117.7
166	129.4	88.2	163.8



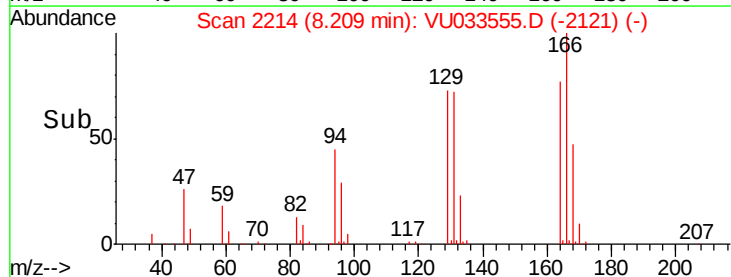
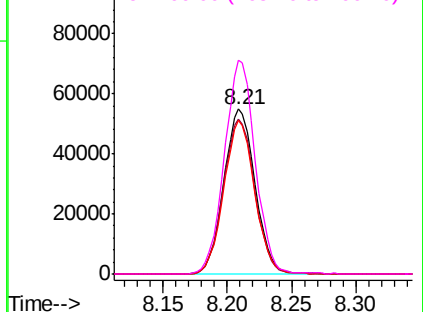
Abundance

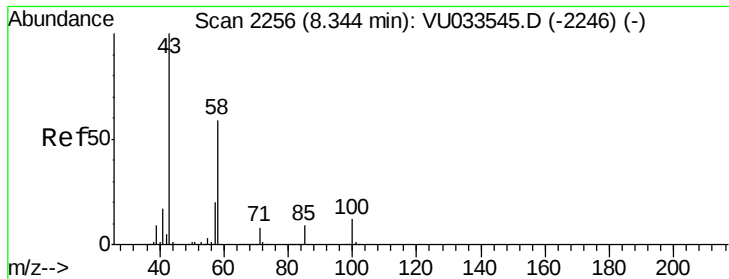
Ion 164.00 (163.70 to 164.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V

Ion 166.00 (165.70 to 166.70): V

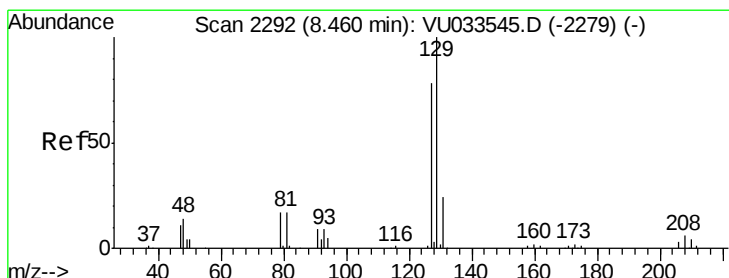
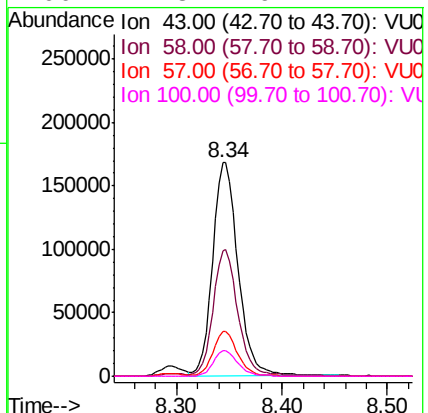
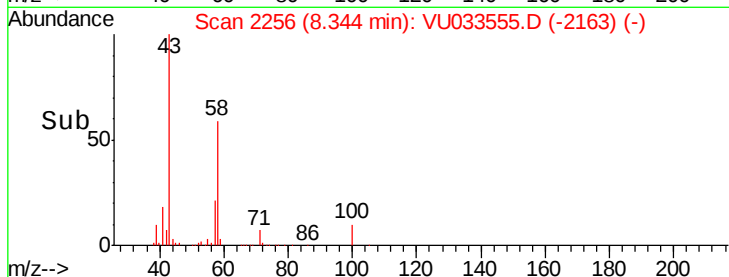
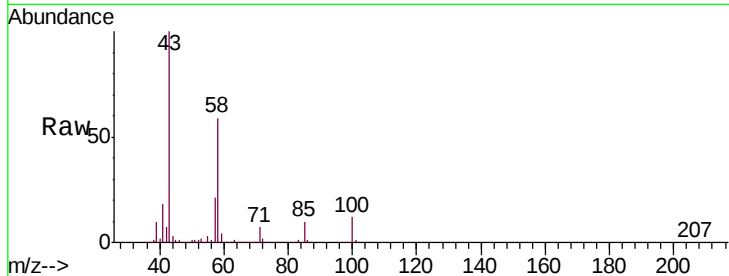




#48
2-Hexanone
Concen: 110.401 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. -0.00 min
Lab File: VU033555.D
Acq: 01 Aug 2019 17:53

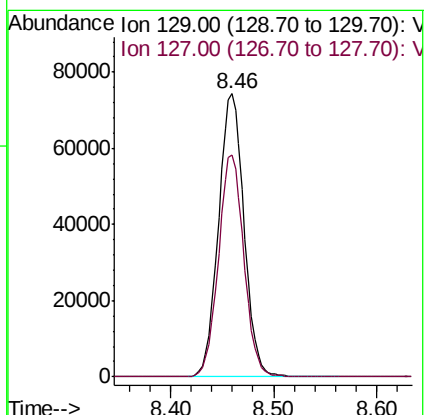
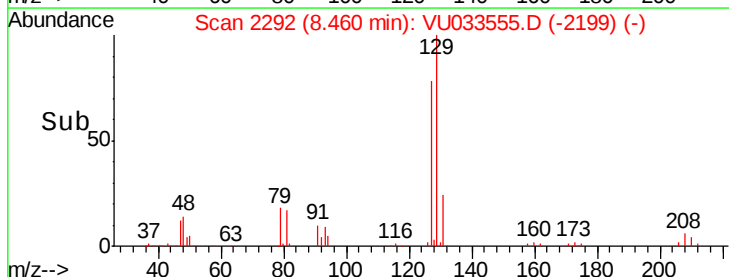
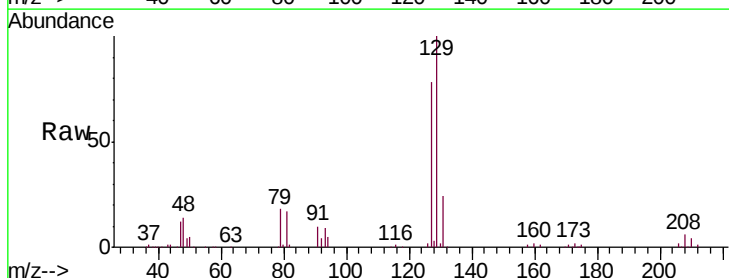
Instrument :
MSVOA_U
ClientSampleId :
VSTD05045

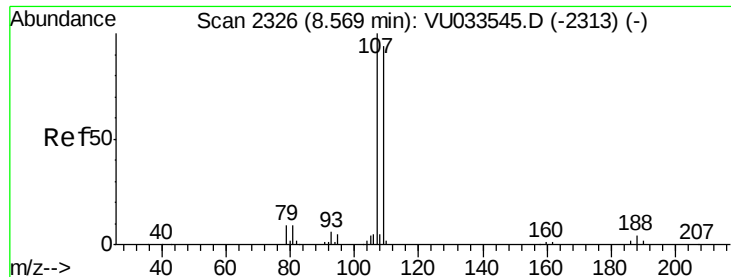
Tgt Ion: 43 Resp: 281388
Ion Ratio Lower Upper
43 100
58 57.2 45.8 68.6
57 19.9 15.8 23.6
100 11.8 9.4 14.2



#49
Dibromochloromethane
Concen: 51.901 ug/L
RT: 8.46 min Scan# 2292
Delta R.T. -0.00 min
Lab File: VU033555.D
Acq: 01 Aug 2019 17:53

Tgt Ion: 129 Resp: 128025
Ion Ratio Lower Upper
129 100
127 78.4 53.8 99.8

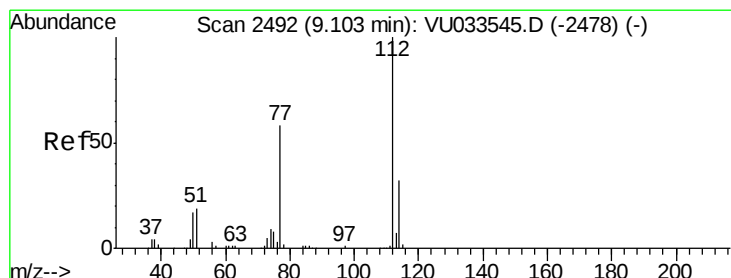
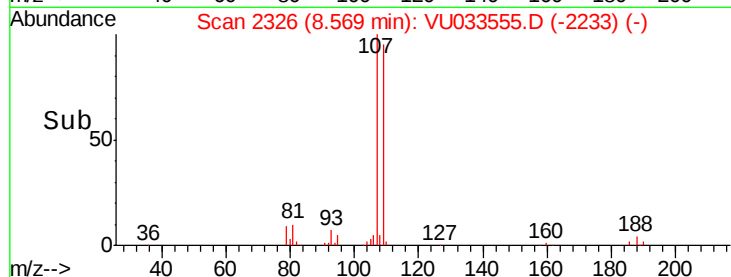
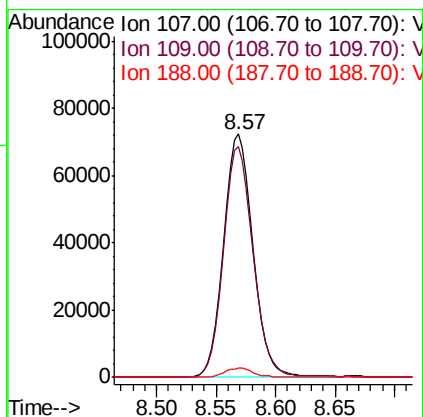
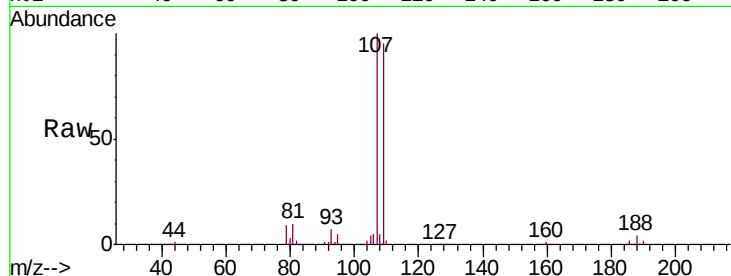




#50
1,2-Dibromoethane
Concen: 51.693 ug/L
RT: 8.57 min Scan# 2326
Delta R.T. -0.00 min
Lab File: VU033555.D
Acq: 01 Aug 2019 17:53

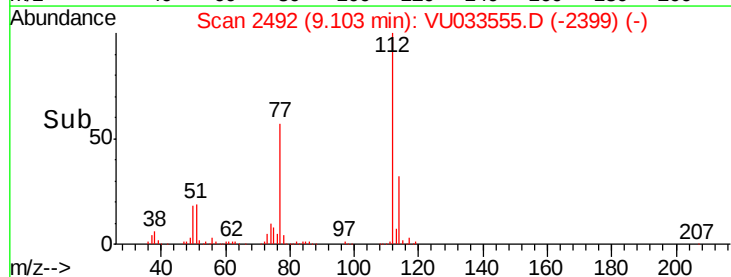
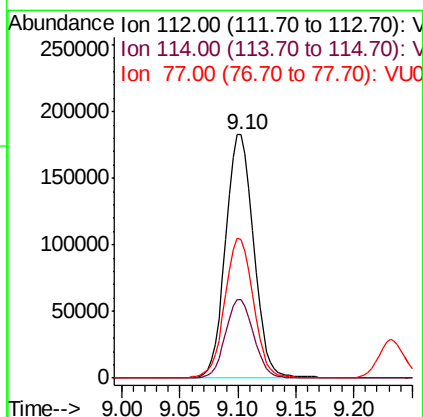
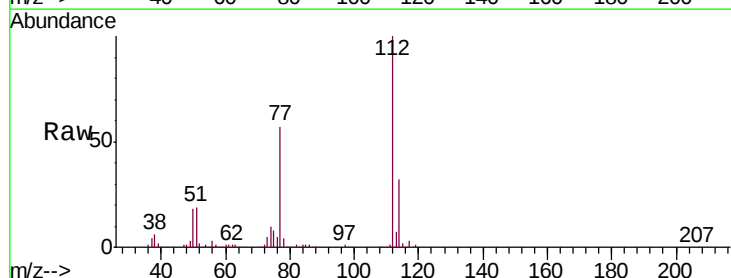
Instrument :
MSVOA_U
ClientSampleId :
VSTD05045

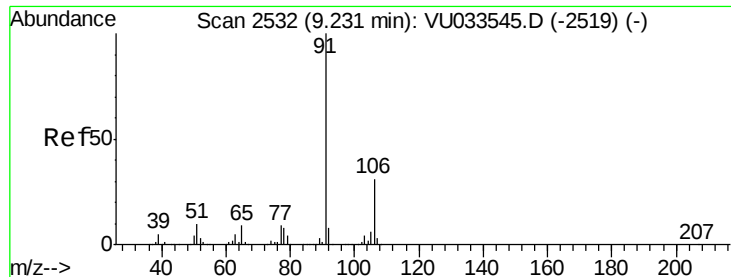
Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.8	66.8	124.0
188	3.8	3.0	4.4



#51
Chlorobenzene
Concen: 51.000 ug/L
RT: 9.10 min Scan# 2492
Delta R.T. -0.00 min
Lab File: VU033555.D
Acq: 01 Aug 2019 17:53

Tgt Ion	Ratio	Lower	Upper
112	100		
114	32.1	22.3	41.5
77	57.1	45.6	68.4





#52

Ethylbenzene

Concen: 52.203 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

Instrument :

MSVOA_U

ClientSampleId :

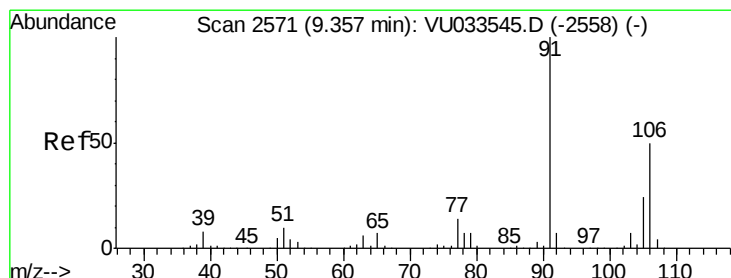
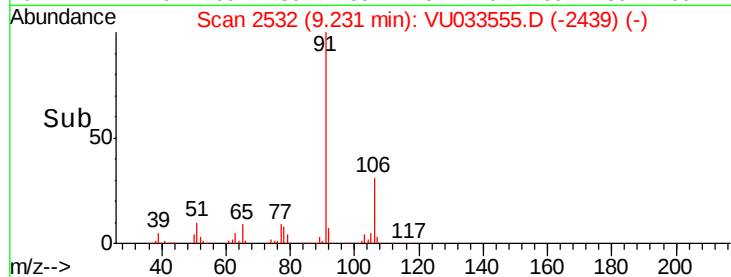
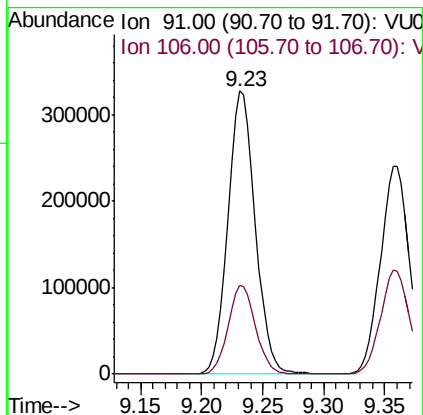
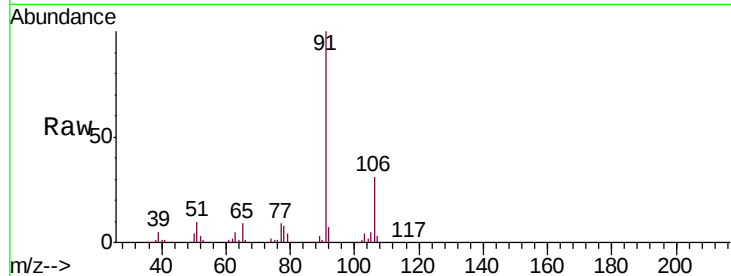
VSTD05045

Tgt Ion: 91 Resp: 515723

Ion Ratio Lower Upper

91 100

106 31.4 22.2 41.2



#53

m,p-Xylene

Concen: 52.169 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. -0.00 min

Lab File: VU033555.D

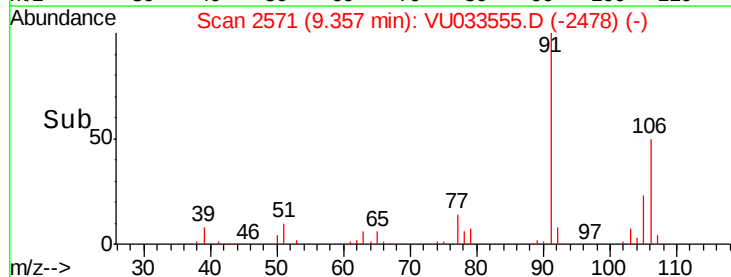
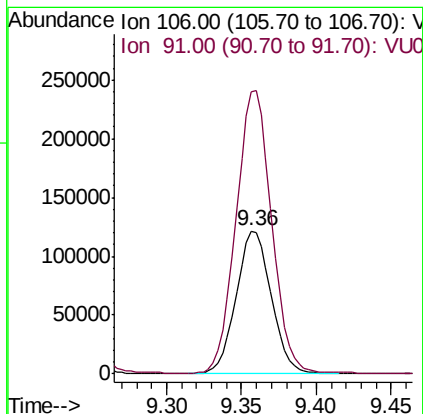
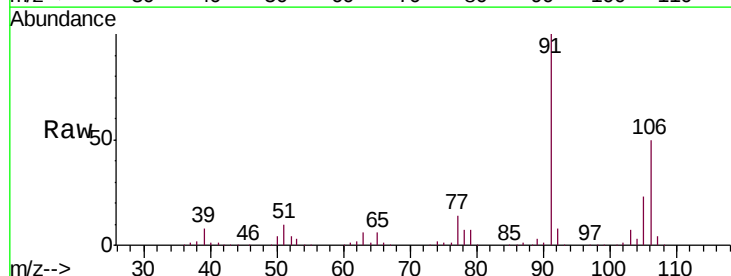
Acq: 01 Aug 2019 17:53

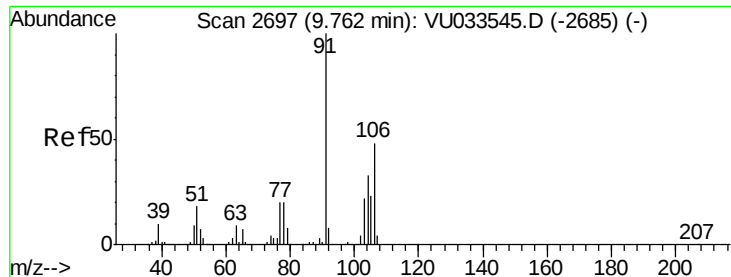
Tgt Ion: 106 Resp: 197856

Ion Ratio Lower Upper

106 100

91 198.2 143.0 265.6





#54

o-xylene

Concen: 52.951 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

Instrument :

MSVOA_U

ClientSampleId :

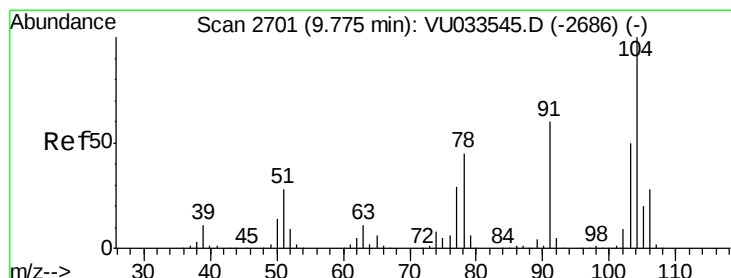
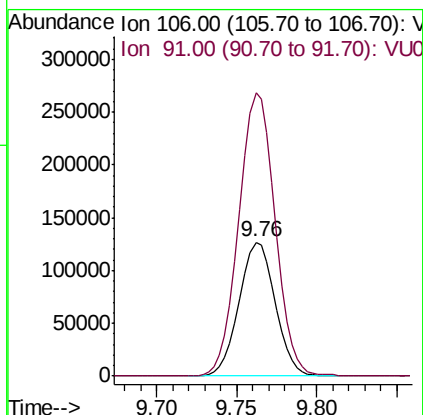
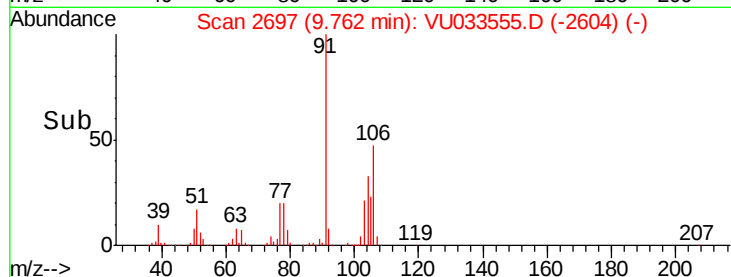
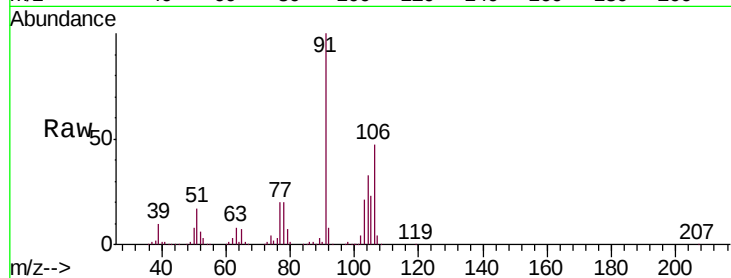
VSTD05045

Tgt Ion:106 Resp: 194808

Ion Ratio Lower Upper

106 100

91 211.0 148.4 275.6



#55

Styrene

Concen: 54.458 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033555.D

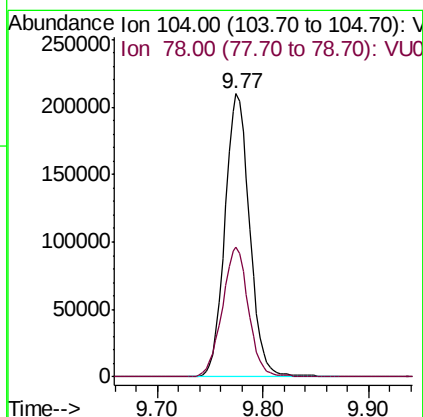
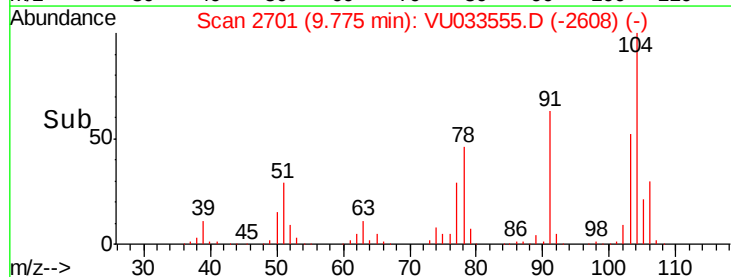
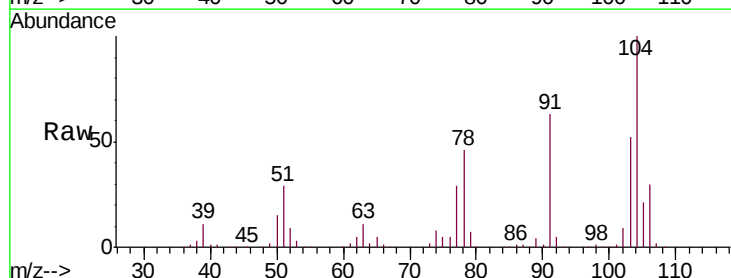
Acq: 01 Aug 2019 17:53

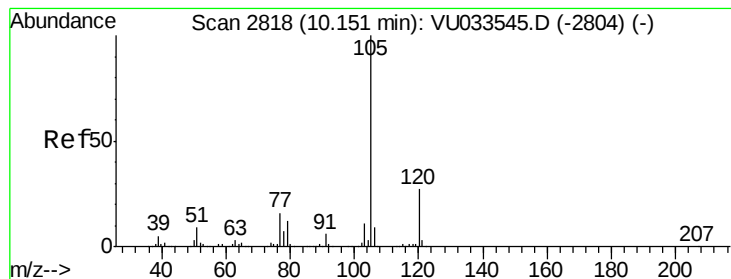
Tgt Ion:104 Resp: 340280

Ion Ratio Lower Upper

104 100

78 46.0 32.2 59.8





#56

Isopropylbenzene

Concen: 52.455 ug/L

RT: 10.15 min Scan# 2818

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

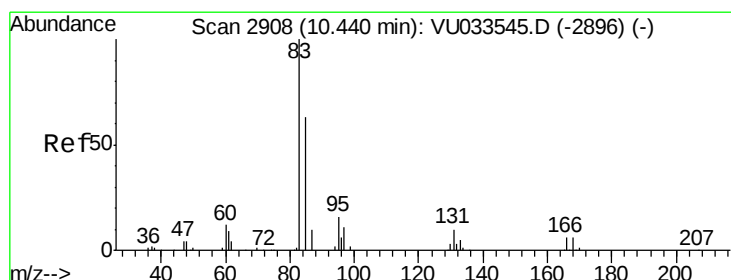
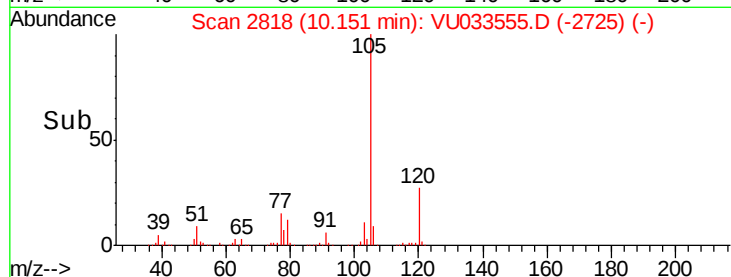
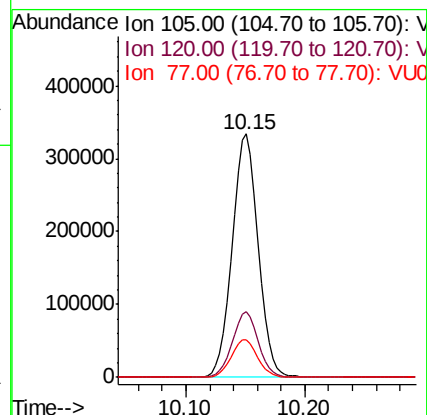
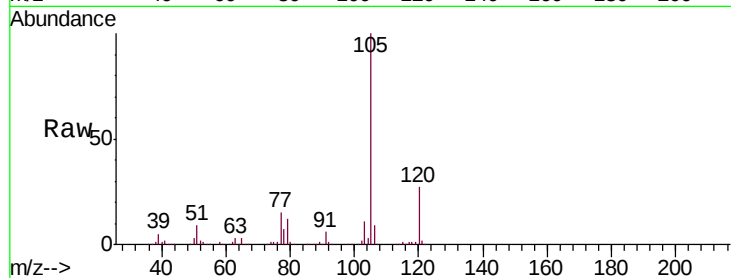
Tgt Ion: 105 Resp: 504230

Ion Ratio Lower Upper

105 100

120 26.8 21.4 32.0

77 15.5 12.5 18.7



#58

1,1,2,2-Tetrachloroethane

Concen: 52.780 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

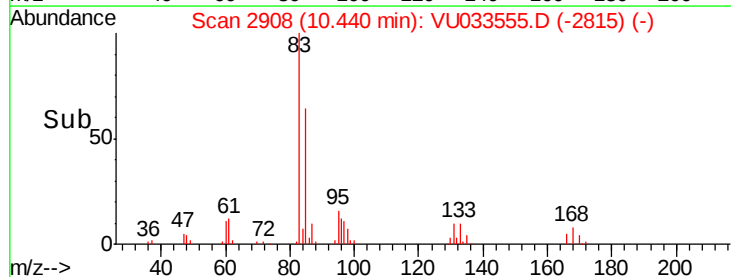
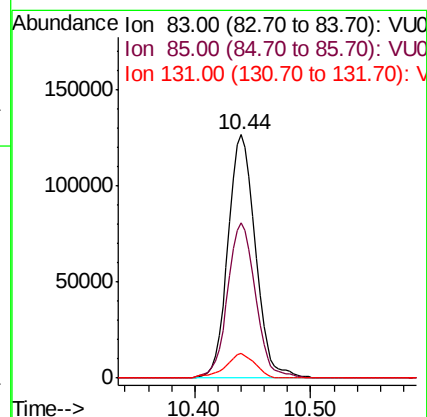
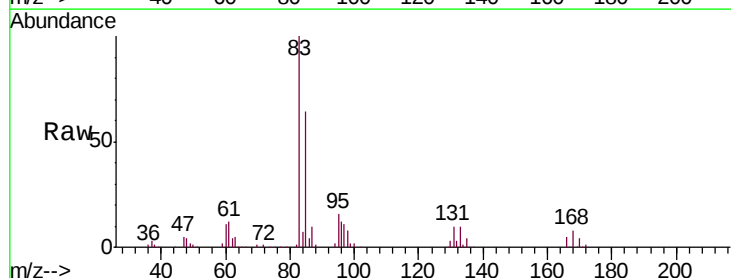
Tgt Ion: 83 Resp: 206396

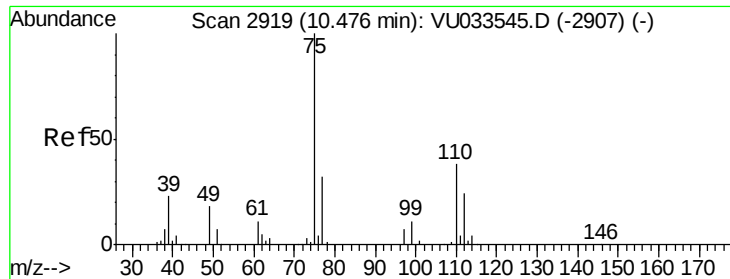
Ion Ratio Lower Upper

83 100

85 63.8 45.4 84.4

131 10.0 7.9 11.9





#59

1,2,3-Trichloropropane

Concen: 52.886 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

Instrument :

MSVOA_U

ClientSampleId :

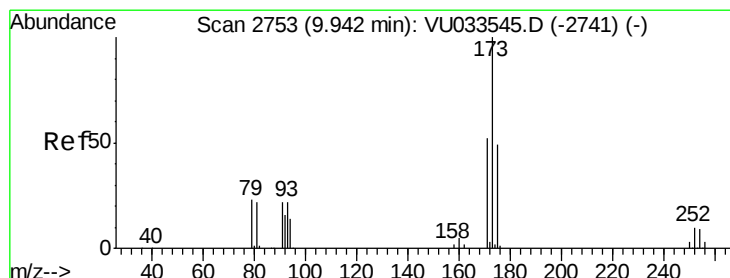
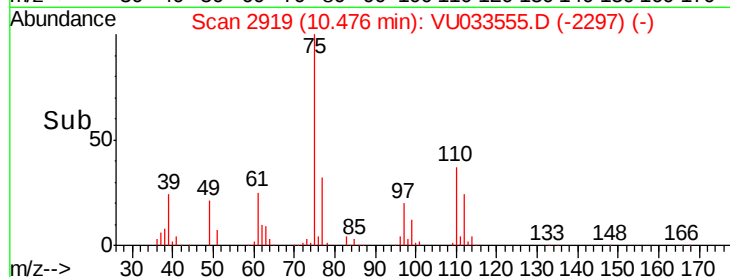
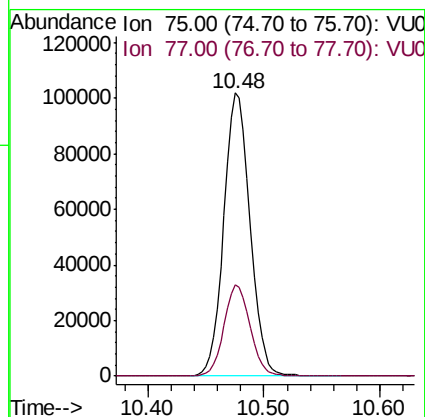
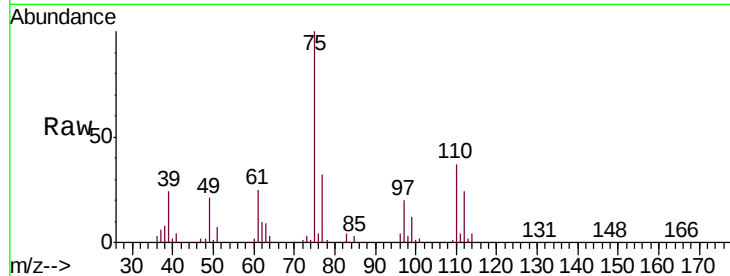
VSTD05045

Tgt Ion: 75 Resp: 159426

Ion Ratio Lower Upper

75 100

77 32.1 25.8 38.6



#61

Bromoform

Concen: 50.519 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

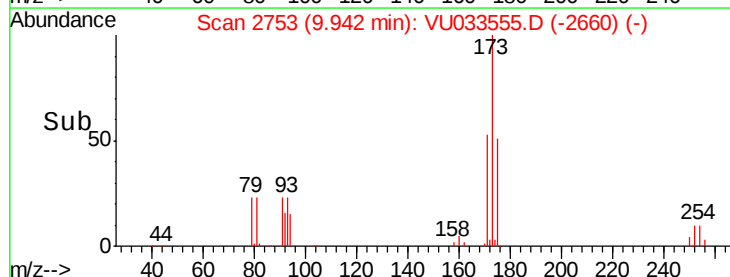
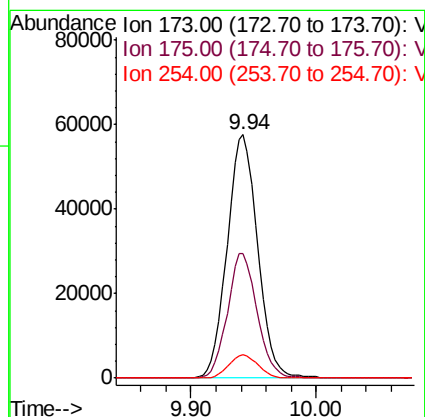
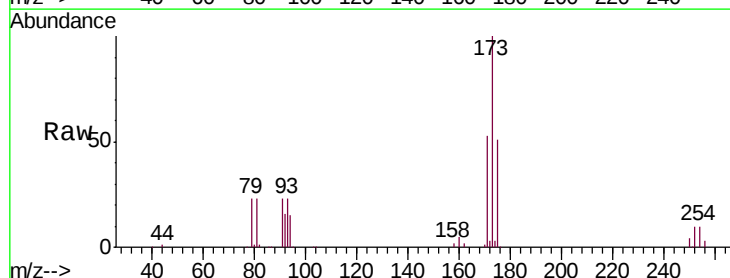
Tgt Ion: 173 Resp: 97230

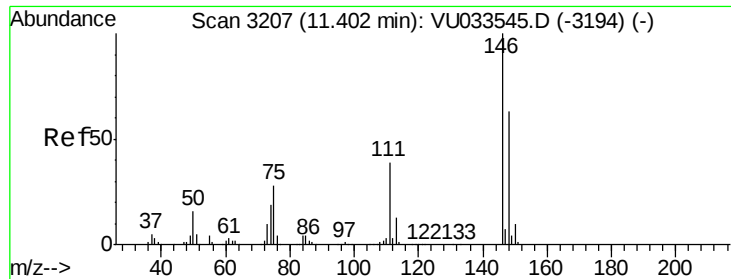
Ion Ratio Lower Upper

173 100

175 49.7 38.7 58.1

254 9.2 7.5 11.3





#62

1,3-Dichlorobenzene

Concen: 50.255 ug/L

RT: 11.40 min Scan# 3207

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

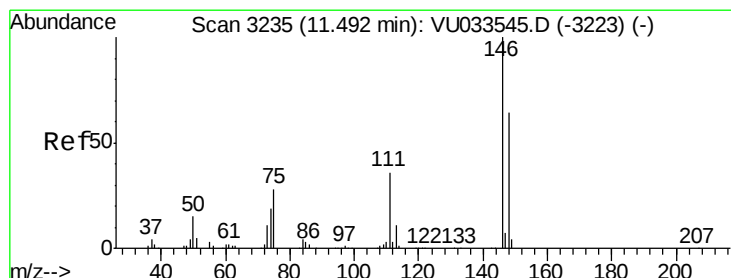
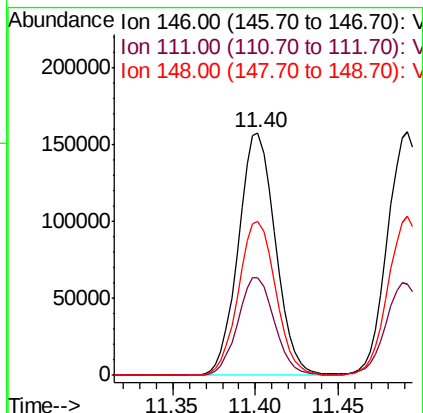
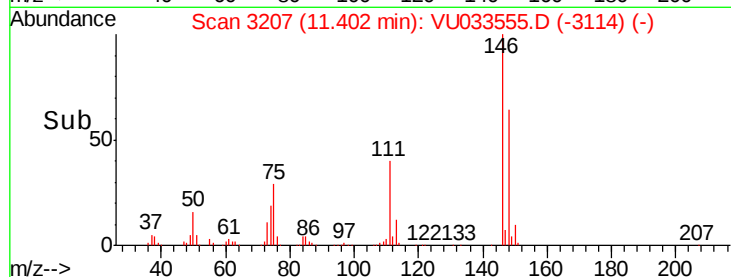
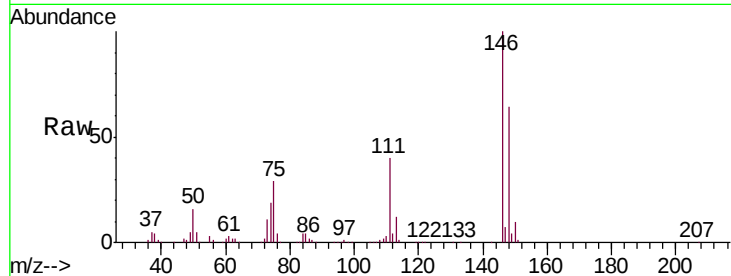
Tgt Ion:146 Resp: 245911

Ion Ratio Lower Upper

146 100

111 40.4 28.1 52.1

148 63.6 45.0 83.6



#63

1,4-Dichlorobenzene

Concen: 49.509 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

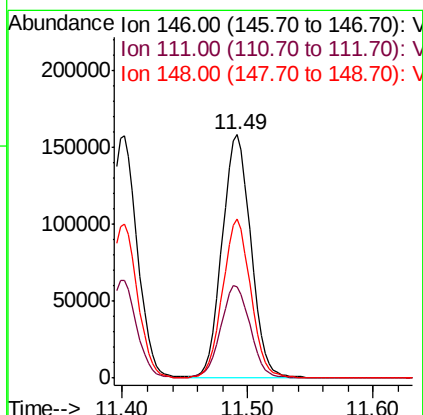
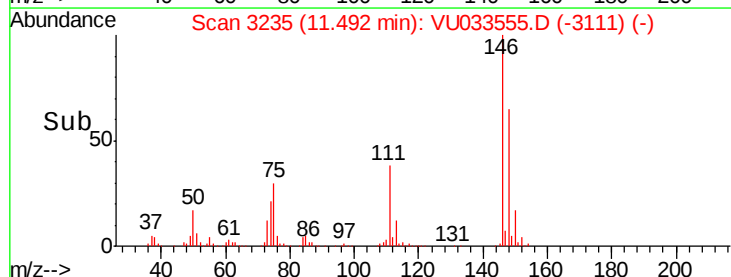
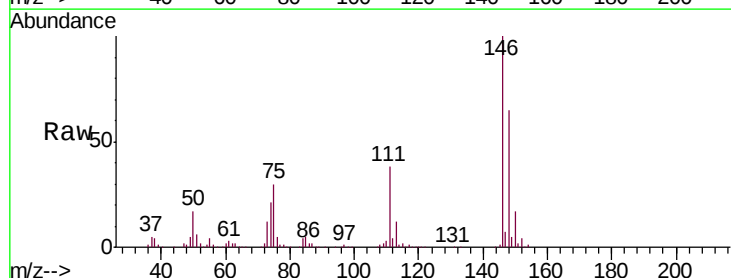
Tgt Ion:146 Resp: 251687

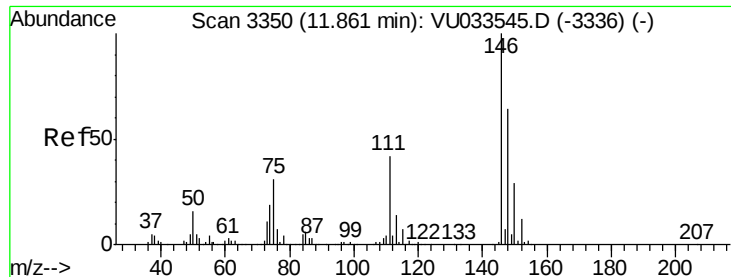
Ion Ratio Lower Upper

146 100

111 37.7 27.2 50.4

148 65.2 44.5 82.7





#65

1,2-Dichlorobenzene

Concen: 50.806 ug/L

RT: 11.86 min Scan# 3350

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

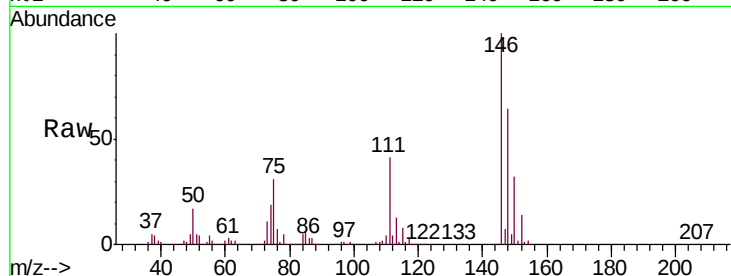
Tgt Ion:146 Resp: 251367

Ion Ratio Lower Upper

146 100

111 41.4 31.7 47.5

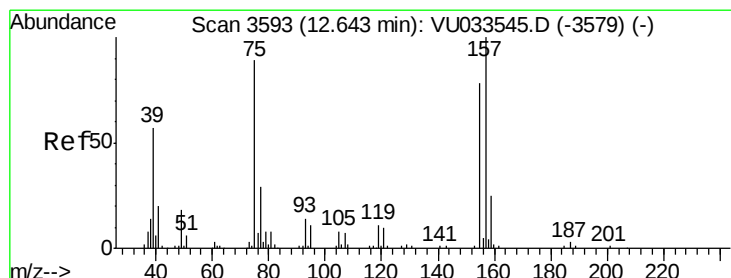
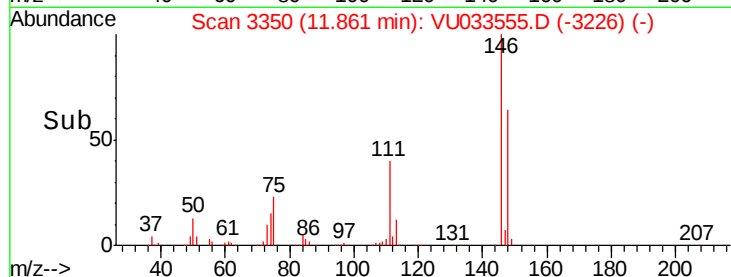
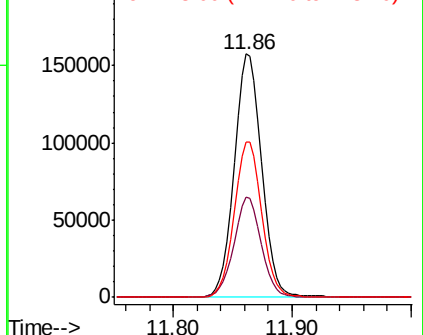
148 64.0 50.3 75.5



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 52.283 ug/L

RT: 12.64 min Scan# 3593

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

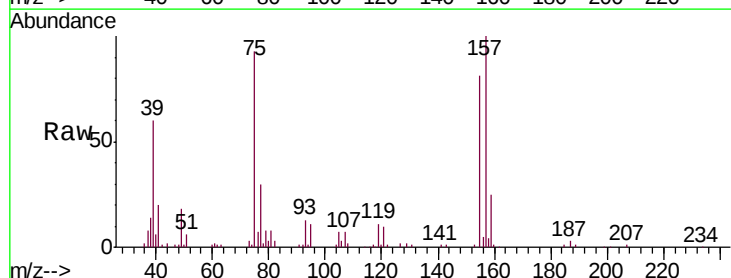
Tgt Ion: 75 Resp: 47792

Ion Ratio Lower Upper

75 100

155 87.8 69.4 104.0

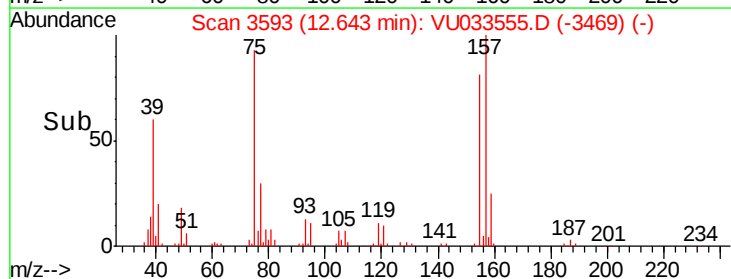
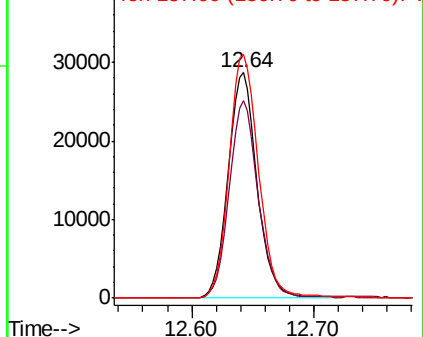
157 107.9 91.8 137.8

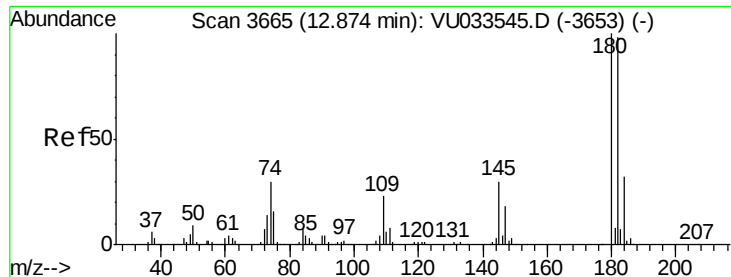


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

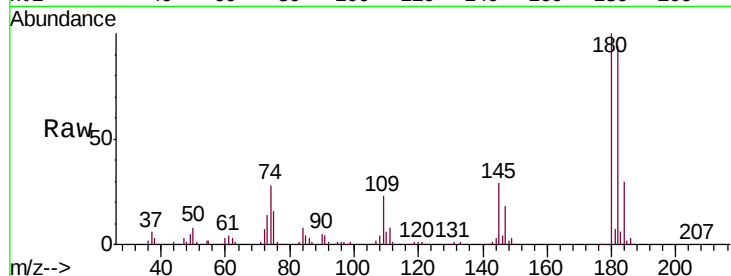




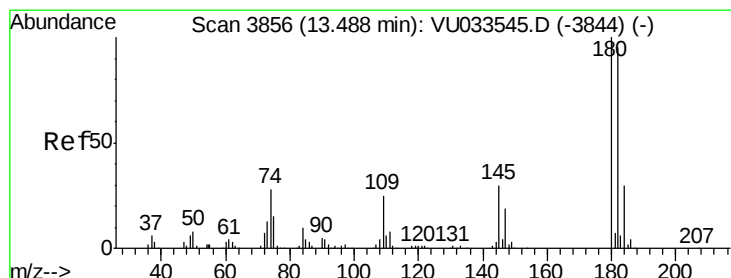
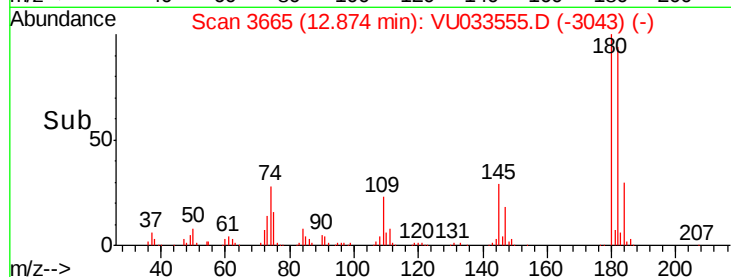
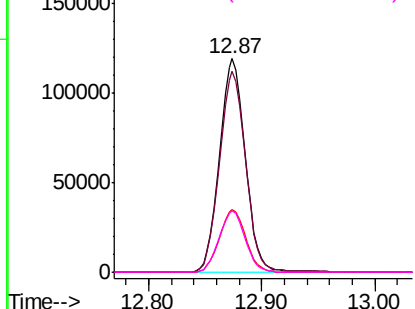
#67
 1,3,5-Trichlorobenzene
 Concen: 47.871 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033555.D
 Acq: 01 Aug 2019 17:53

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05045

Tgt Ion:	180	Resp:	188979
Ion	Ratio	Lower	Upper
180	100		
182	95.1	75.6	113.4
184	29.8	24.2	36.2
145	28.9	22.7	34.1

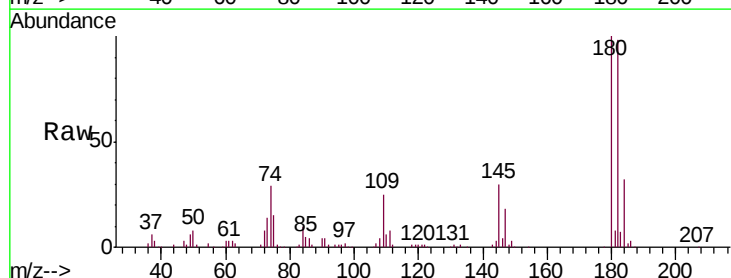


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

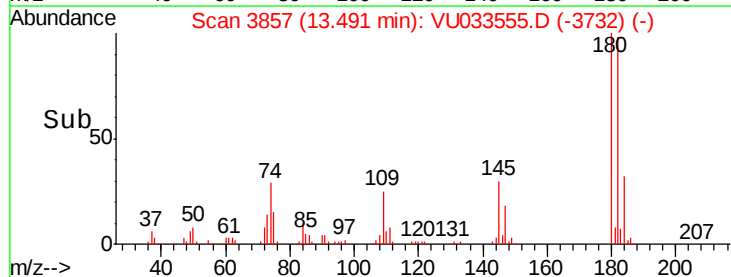
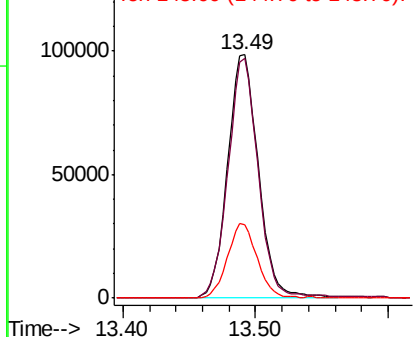


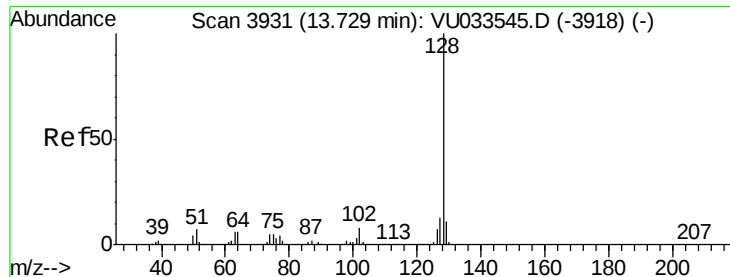
#68
 1,2,4-trichlorobenzene
 Concen: 47.243 ug/L
 RT: 13.49 min Scan# 3857
 Delta R.T. 0.00 min
 Lab File: VU033555.D
 Acq: 01 Aug 2019 17:53

Tgt Ion:	180	Resp:	159357
Ion	Ratio	Lower	Upper
180	100		
182	96.1	75.8	113.8
145	29.6	24.3	36.5



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





#69

Naphthalene

Concen: 49.736 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

Instrument :

MSVOA_U

ClientSampleId :

VSTD05045

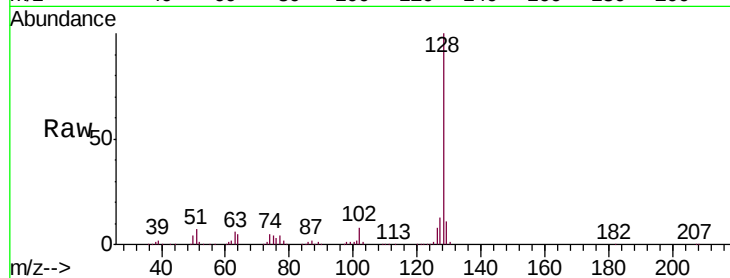
Tgt Ion:128 Resp: 481331

Ion Ratio Lower Upper

128 100

127 13.3 10.8 16.2

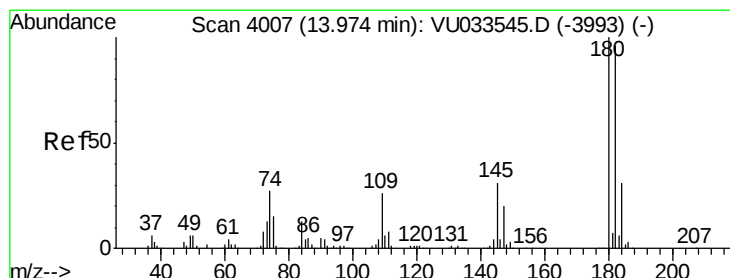
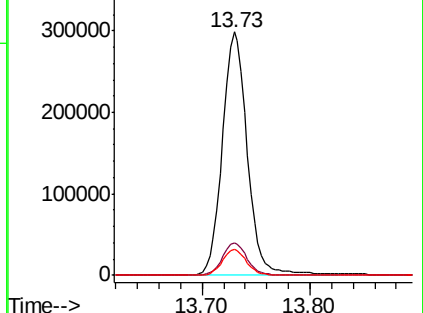
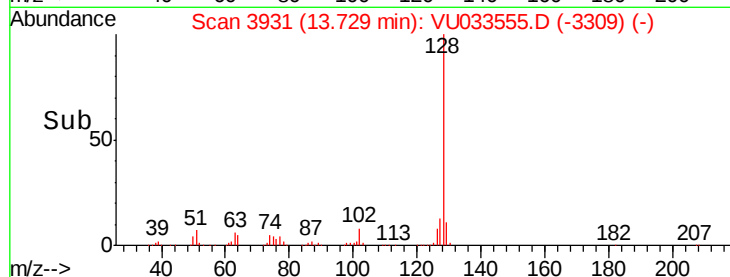
129 10.4 8.7 13.1



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#70

1,2,3-Trichlorobenzene

Concen: 48.520 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. -0.00 min

Lab File: VU033555.D

Acq: 01 Aug 2019 17:53

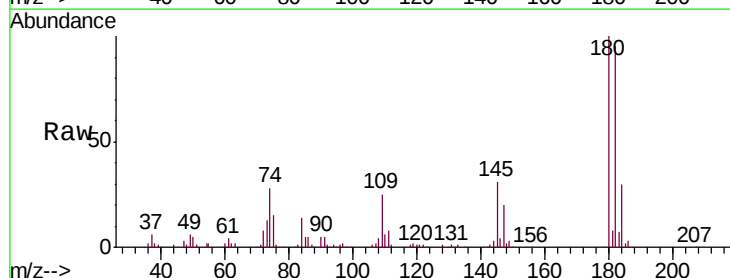
Tgt Ion:180 Resp: 172126

Ion Ratio Lower Upper

180 100

182 95.8 75.5 113.3

145 30.7 24.4 36.6



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

