

Data File : VU033900.D
Acq On : 22 Aug 2019 15:13
Operator : JC/SP
Sample : VSTD01036
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD01036

Quant Time: Aug 23 01:56:44 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM082219WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 23 01:53:40 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	562151	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	567407	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	269932	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	51401	10.12	ug/L	0.00
7) Chloroethane-d5	1.67	69	42185	9.09	ug/L	0.00
11) 1,1-Dichloroethene-d2	2.26	63	92585	10.73	ug/L	0.00
21) 2-Butanone-d5	4.16	46	59274	21.17	ug/L	0.01
24) Chloroform-d	4.62	84	84358	10.29	ug/L	0.00
26) 1,2-Dichloroethane-d4	5.29	65	54812	10.63	ug/L	0.00
32) Benzene-d6	5.32	84	163241	10.19	ug/L	0.00
36) 1,2-Dichloropropane-d6	6.31	67	53503	10.25	ug/L	0.00
41) Toluene-d8	7.55	98	144304	9.75	ug/L	0.00
43) trans-1,3-Dichloropropene-	7.84	79	22224	9.16	ug/L	0.00
47) 2-Hexanone-d5	8.30	63	31705	16.00	ug/L	0.00
57) 1,1,2,2-Tetrachloroethane-	10.41	84	74410	10.29	ug/L	0.00
64) 1,2-Dichlorobenzene-d4	11.84	152	55314	10.19	ug/L	0.00

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	55353	10.062 ug/L	100
3) Chloromethane	1.32	50	51943	9.245 ug/L	99
5) Vinyl chloride	1.39	62	61341	9.773 ug/L	97
6) Bromomethane	1.62	94	22387	5.186 ug/L	99
8) Chloroethane	1.69	64	38809	8.996 ug/L	100
9) Trichlorofluoromethane	1.87	101	73821	8.980 ug/L	99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	42060	10.390 ug/L	99
12) 1,1-Dichloroethene	2.27	96	40981	10.506 ug/L	98
13) Acetone	2.30	43	68705	25.138 ug/L	96
14) Carbon disulfide	2.46	76	126689	10.294 ug/L	100
15) Methyl Acetate	2.60	43	54211	11.991 ug/L	99
16) Methylene chloride	2.68	84	48720	10.676 ug/L	98
17) trans-1,2-Dichloroethene	2.96	96	41309	10.101 ug/L	95
18) Methyl tert-butyl Ether	2.98	73	118929	9.912 ug/L	100
19) 1,1-Dichloroethane	3.42	63	85702	10.804 ug/L	99
20) cis-1,2-Dichloroethene	4.20	96	44251	9.996 ug/L	98
22) 2-Butanone	4.24	43	73491	23.086 ug/L	96
23) Bromochloromethane	4.52	128	24838	10.390 ug/L	90
25) Chloroform	4.65	83	88200	10.779 ug/L	96
27) 1,2-Dichloroethane	5.38	62	67123	10.778 ug/L	96
29) Cyclohexane	4.97	56	59102	9.500 ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	68164	9.951 ug/L	99
31) Carbon tetrachloride	5.11	117	60050	9.654 ug/L	98
33) Benzene	5.37	78	174674	10.082 ug/L	100
34) Trichloroethene	6.16	95	46860	10.225 ug/L	99
35) Methylcyclohexane	6.39	83	61789	9.112 ug/L	94
37) 1,2-Dichloropropane	6.41	63	48618	10.268 ug/L	98
38) Bromodichloromethane	6.74	83	63650	10.378 ug/L	98
39) cis-1,3-Dichloropropene	7.25	75	63942	9.217 ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	124194	21.463 ug/L	97

Data File : VU033900.D
Acq On : 22 Aug 2019 15:13
Operator : JC/SP
Sample : VSTD01036
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD01036

Quant Time: Aug 23 01:56:44 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM082219WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 23 01:53:40 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
42) Toluene	7.62	91	178114	9.788	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	59370	9.338	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	45629	10.280	ug/L	98
46) Tetrachloroethene	8.21	164	35213	9.611	ug/L	97
48) 2-Hexanone	8.35	43	95878	21.219	ug/L	94
49) Dibromochloromethane	8.46	129	48843	9.821	ug/L	100
50) 1,2-Dibromoethane	8.57	107	46808	9.952	ug/L	96
51) Chlorobenzene	9.10	112	121586	10.122	ug/L	100
52) Ethylbenzene	9.23	91	186845	9.656	ug/L	99
53) m,p-Xylene	9.36	106	66372	9.194	ug/L	100
54) o-xylene	9.76	106	66576	9.495	ug/L	100
55) Styrene	9.77	104	109733	9.147	ug/L	98
56) Isopropylbenzene	10.15	105	168018	9.171	ug/L	99
58) 1,1,2,2-Tetrachloroethane	10.44	83	75232	10.380	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	62016	10.723	ug/L	97
61) Bromoform	9.94	173	35355	10.387	ug/L	100
62) 1,3-Dichlorobenzene	11.40	146	85126	9.961	ug/L	98
63) 1,4-Dichlorobenzene	11.49	146	88438	9.999	ug/L	98
65) 1,2-Dichlorobenzene	11.86	146	86502	10.110	ug/L	98
66) 1,2-Dibromo-3-chloropropan	12.64	75	15531	10.629	ug/L	97
67) 1,3,5-Trichlorobenzene	12.87	180	62626	9.520	ug/L	98
68) 1,2,4-trichlorobenzene	13.49	180	43031	7.964	ug/L	98
69) Naphthalene	13.73	128	110350	7.272	ug/L	99
70) 1,2,3-Trichlorobenzene	13.98	180	49445	8.828	ug/L	100

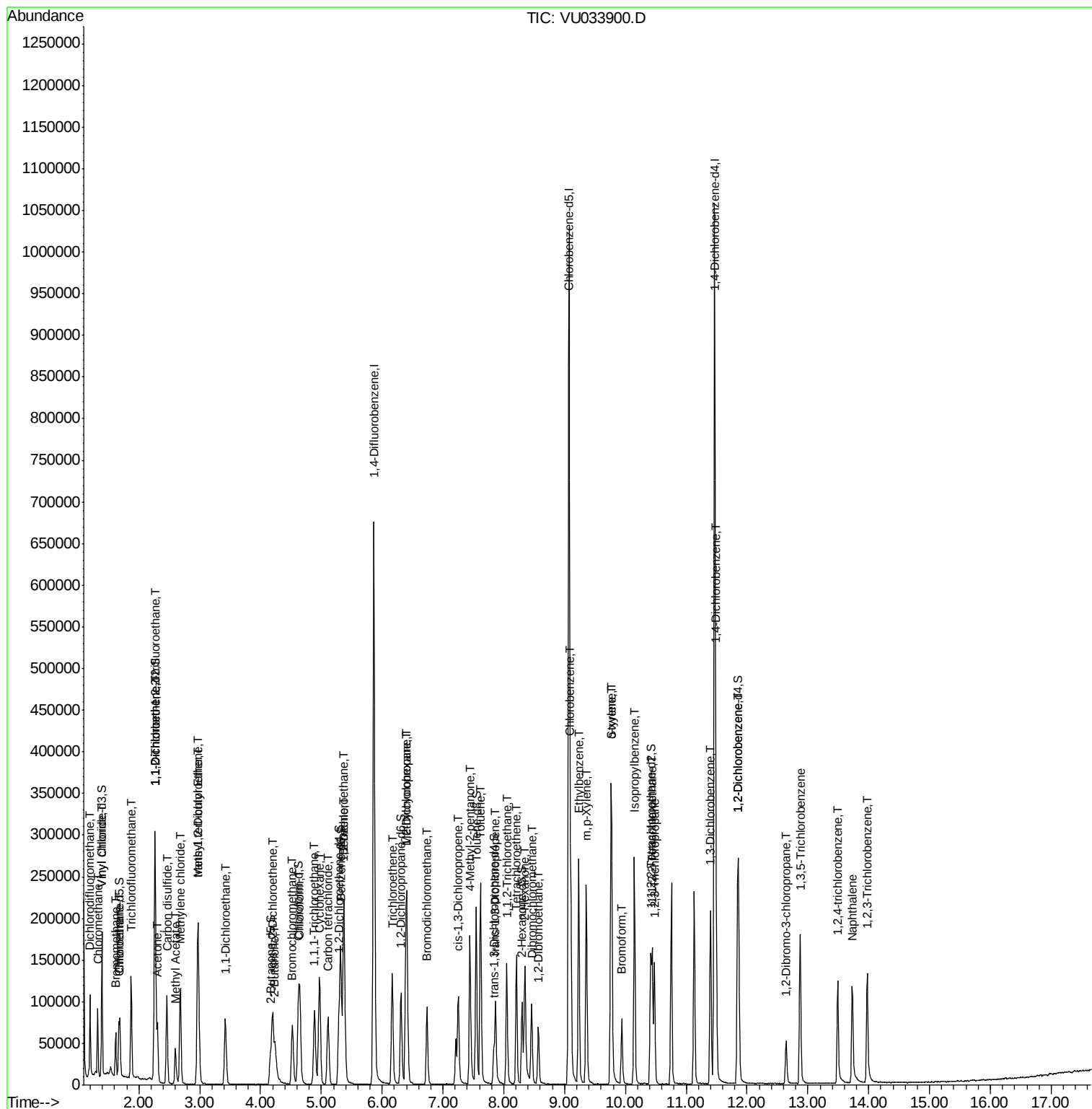
(#) = qualifier out of range (m) = manual integration (+) = signals summed

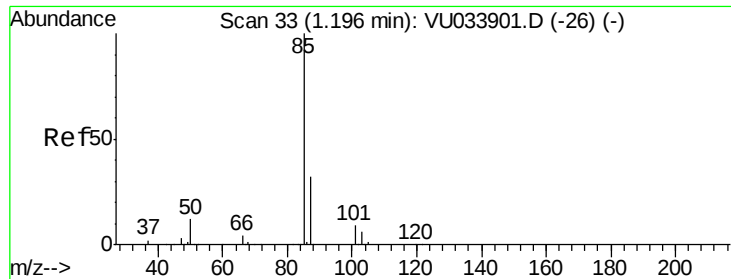
Data File : VU033900.D

```
Acq On       : 22 Aug 2019   15:13
Operator     : JC/SP
Sample       : VSTD01036
Misc         : 5.0mL/MSVOA_U/WATER
ALS Vial     : 3      Sample Multiplier: 1
```

Instrument :
MSVOA_U
ClientSampleId :
VSTD01036

Quant Time: Aug 23 01:56:44 2019
Quant Method : Z:\V\OASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM082219WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 23 01:53:40 2019
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 10.062 ug/L

RT: 1.20 min Scan# 33

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

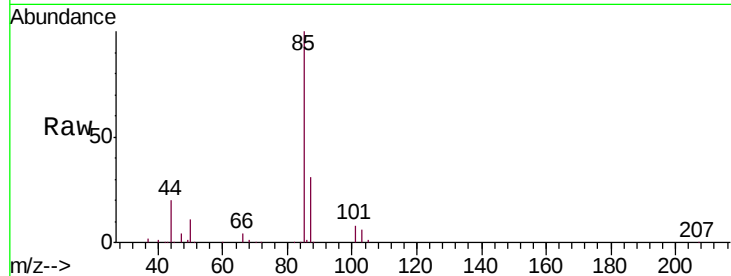
VSTD01036

Tgt Ion: 85 Resp: 55353

Ion Ratio Lower Upper

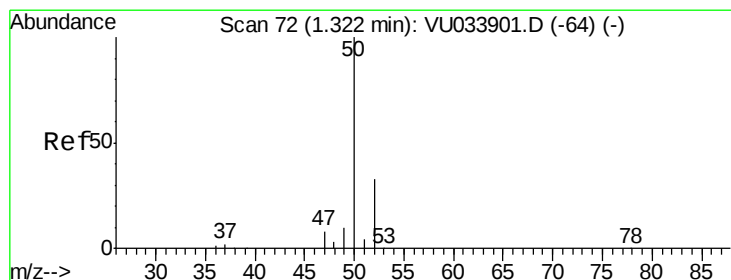
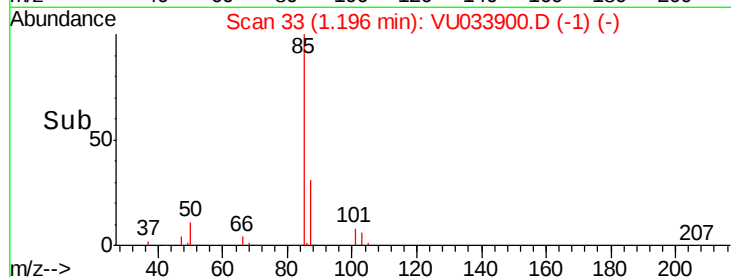
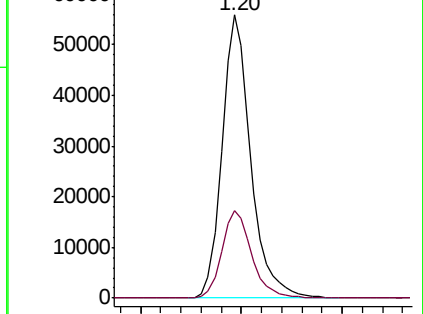
85 100

87 32.0 25.6 38.4



Abundance Ion 85.00 (84.70 to 85.70): VU033901.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033901.D (-26) (-)



#3

Chloromethane

Concen: 9.245 ug/L

RT: 1.32 min Scan# 72

Delta R.T. 0.00 min

Lab File: VU033900.D

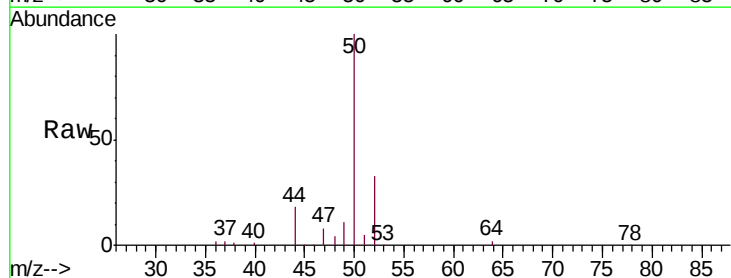
Acq: 22 Aug 2019 15:13

Tgt Ion: 50 Resp: 51943

Ion Ratio Lower Upper

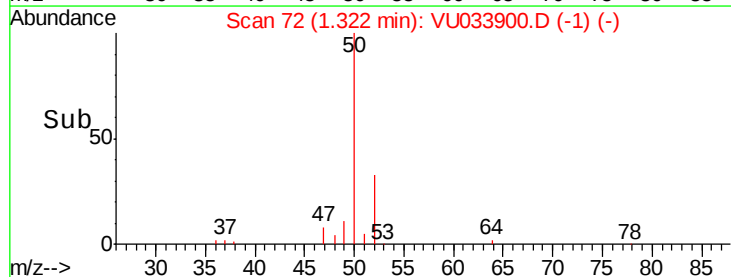
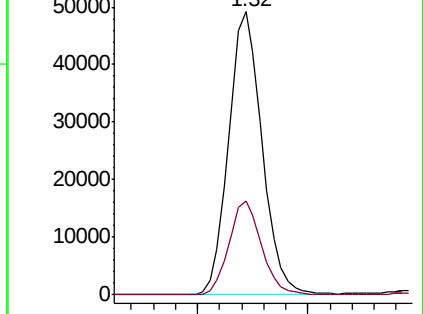
50 100

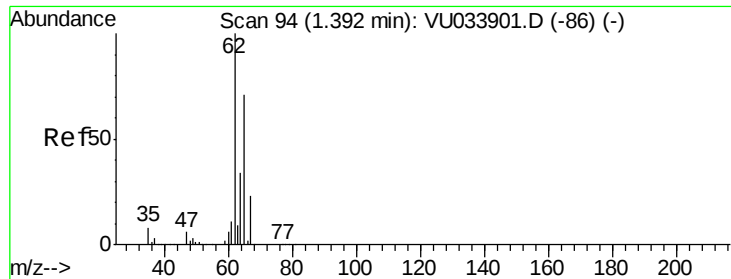
52 33.3 23.0 42.8



Abundance Ion 50.00 (49.70 to 50.70): VU033901.D (-64) (-)

Ion 52.00 (51.70 to 52.70): VU033901.D (-64) (-)





#5

Vinyl chloride

Concen: 9.773 ug/L

RT: 1.39 min Scan# 94

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

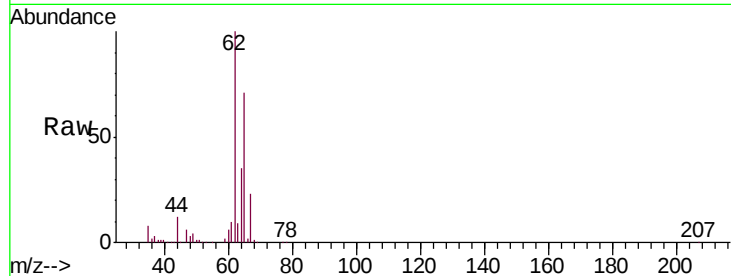
VSTD01036

Tgt Ion: 62 Resp: 61341

Ion Ratio Lower Upper

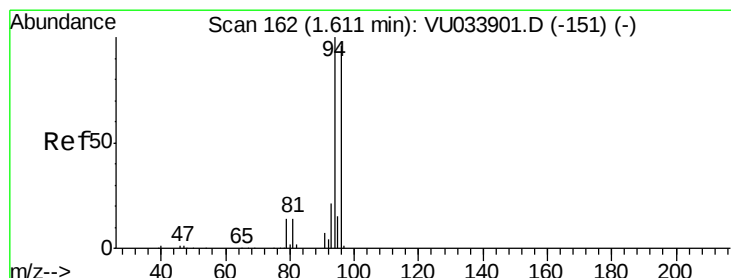
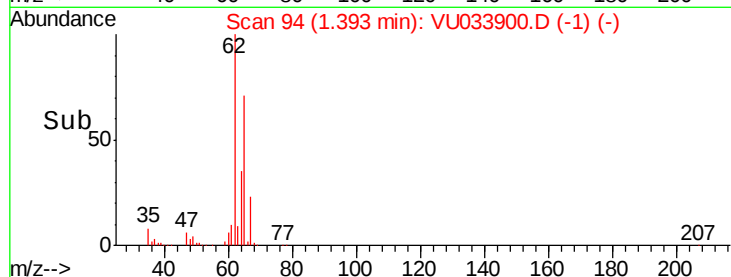
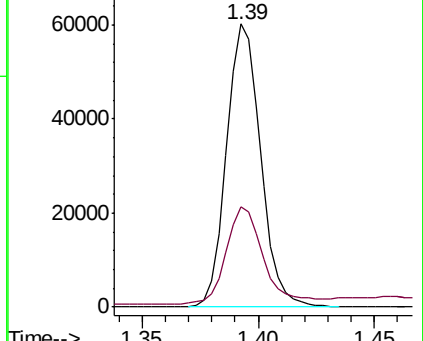
62 100

64 35.4 23.7 44.1



Abundance Ion 62.00 (61.70 to 62.70): VU033901.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033901.D (-86) (-)



#6

Bromomethane

Concen: 5.186 ug/L

RT: 1.62 min Scan# 164

Delta R.T. 0.01 min

Lab File: VU033900.D

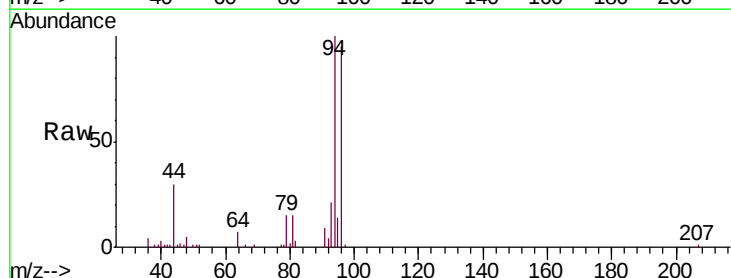
Acq: 22 Aug 2019 15:13

Tgt Ion: 94 Resp: 22387

Ion Ratio Lower Upper

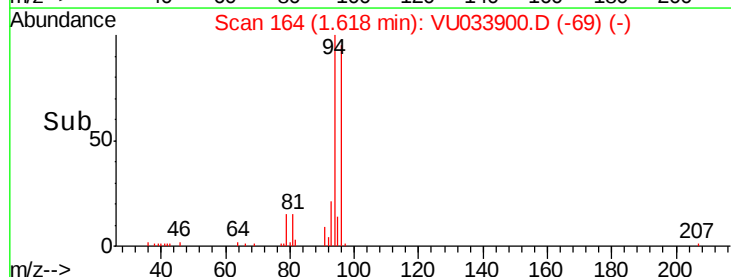
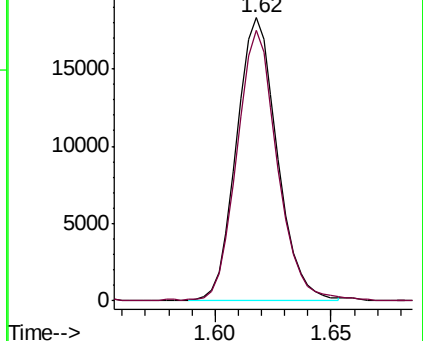
94 100

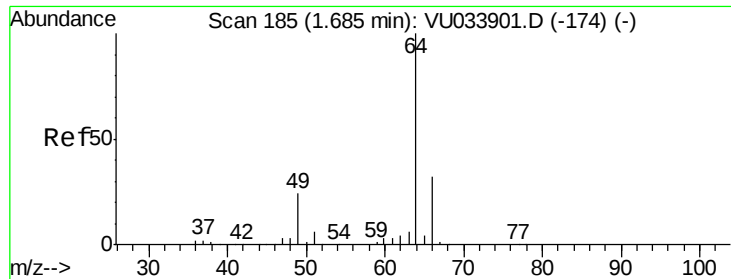
96 95.4 67.3 124.9



Abundance Ion 94.00 (93.70 to 94.70): VU033901.D (-151) (-)

Ion 96.00 (95.70 to 96.70): VU033901.D (-151) (-)





#8

Chloroethane

Concen: 8.996 ug/L

RT: 1.69 min Scan# 186

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

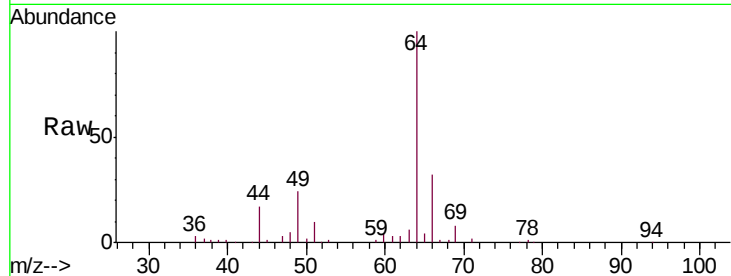
VSTD01036

Tgt Ion: 64 Resp: 38809

Ion Ratio Lower Upper

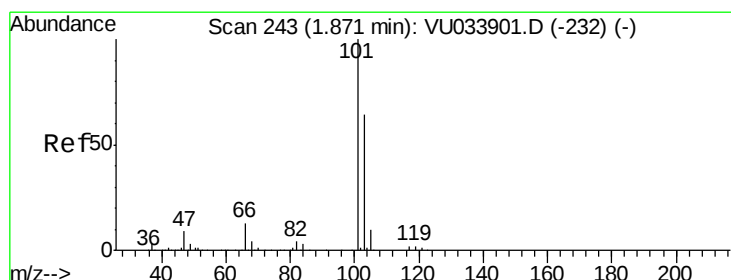
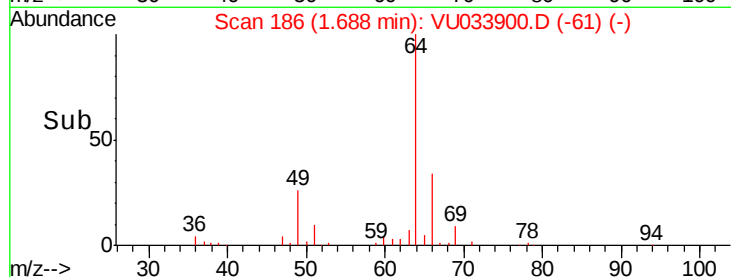
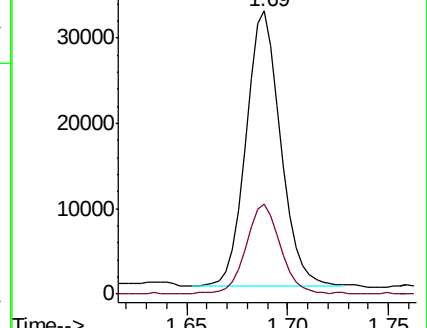
64 100

66 31.7 22.3 41.5



Abundance Ion 64.00 (63.70 to 64.70): VU033900.D (-174) (-)

Ion 66.00 (65.70 to 66.70): VU033900.D (-174) (-)



#9

Trichlorofluoromethane

Concen: 8.980 ug/L

RT: 1.87 min Scan# 243

Delta R.T. 0.00 min

Lab File: VU033900.D

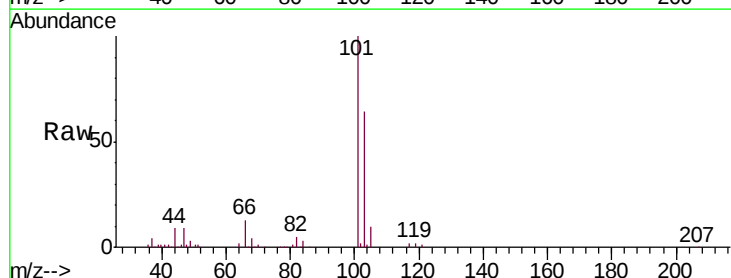
Acq: 22 Aug 2019 15:13

Tgt Ion: 101 Resp: 73821

Ion Ratio Lower Upper

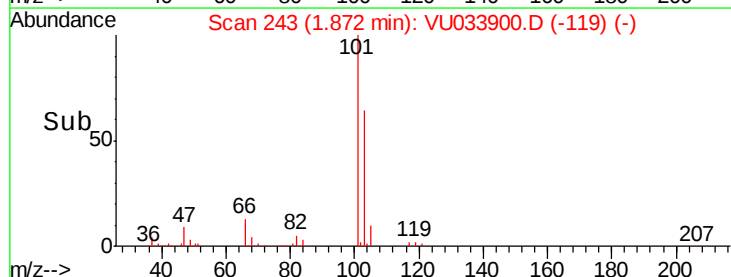
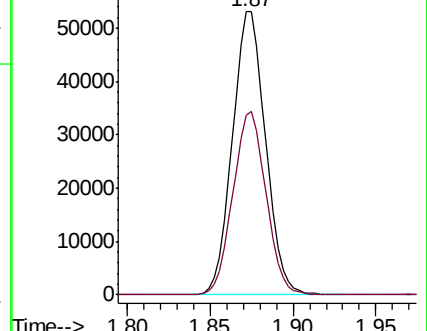
101 100

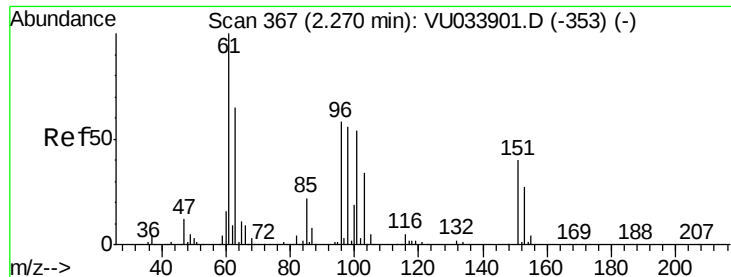
103 64.3 50.9 76.3



Abundance Ion 101.00 (100.70 to 101.70): VU033900.D (-232) (-)

Ion 103.00 (102.70 to 103.70): VU033900.D (-232) (-)





#10

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

Concen: 10.390 ug/L

RT: 2.27 min Scan# 367

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

VSTD01036

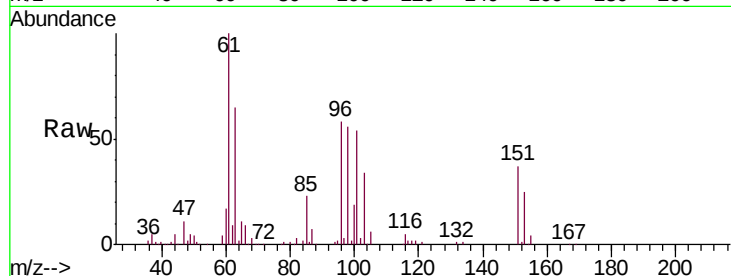
Tgt Ion: 101 Resp: 42060

Ion Ratio Lower Upper

101 100

85 43.5 33.7 50.5

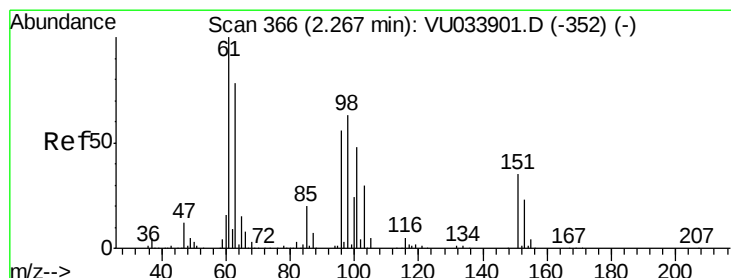
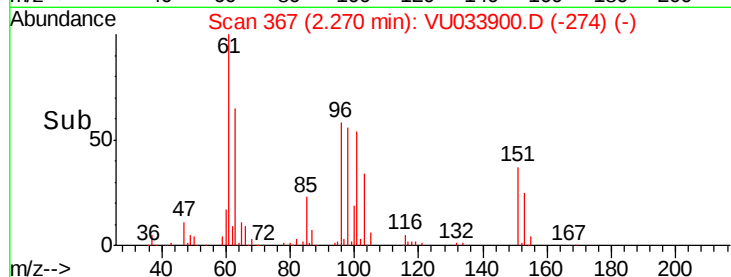
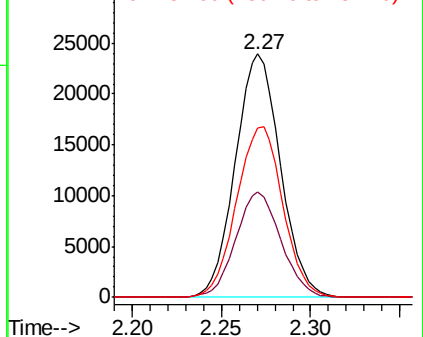
151 72.0 57.8 86.6



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: 10.506 ug/L

RT: 2.27 min Scan# 366

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

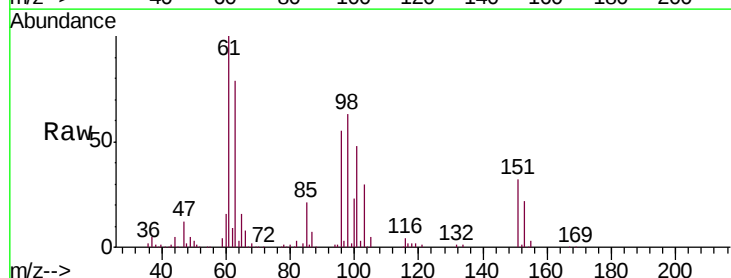
Tgt Ion: 96 Resp: 40981

Ion Ratio Lower Upper

96 100

61 180.5 124.7 231.5

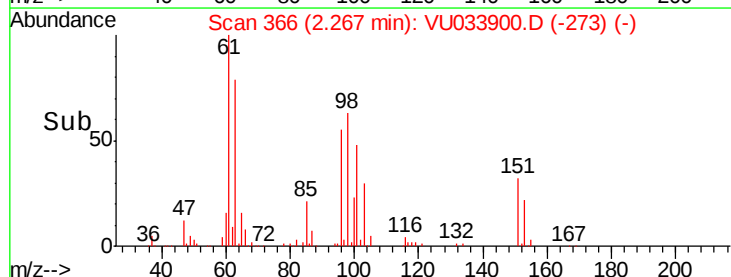
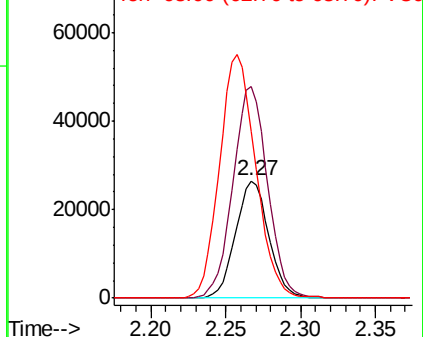
63 142.5 97.9 181.9

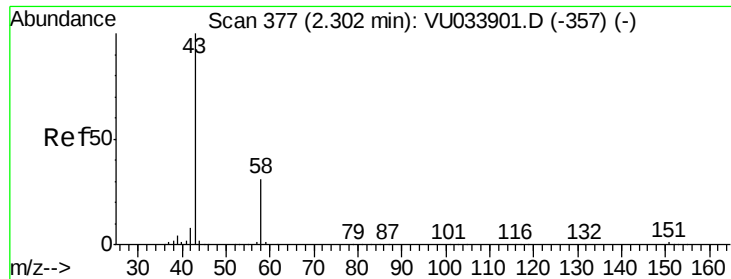


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 25.138 ug/L

RT: 2.30 min Scan# 377

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

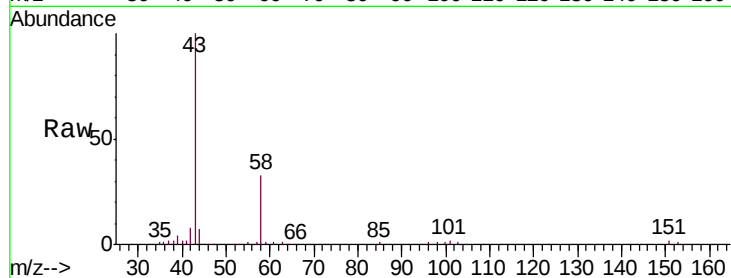
VSTD01036

Tgt Ion: 43 Resp: 68705

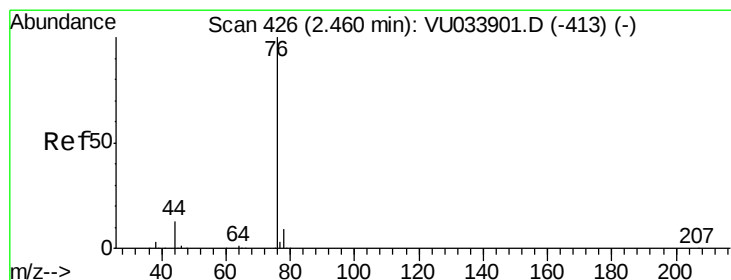
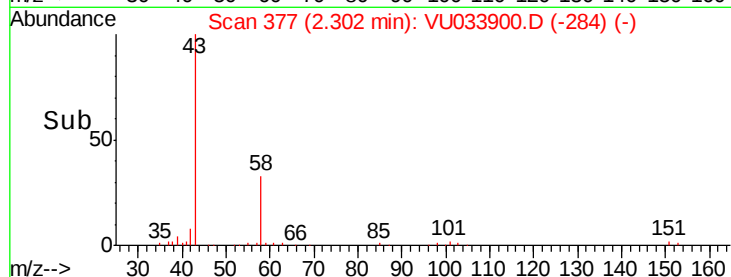
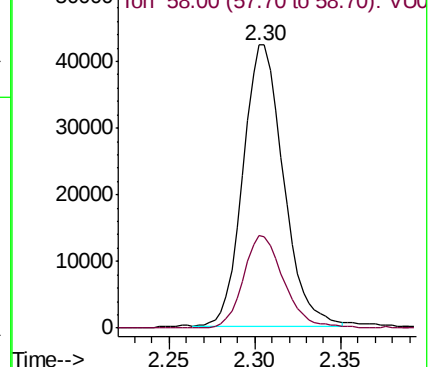
Ion Ratio Lower Upper

43 100

58 33.3 0.0 62.4



Abundance Ion 43.00 (42.70 to 43.70): VU033900.D (-357) (-)



#14

Carbon disulfide

Concen: 10.294 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VU033900.D

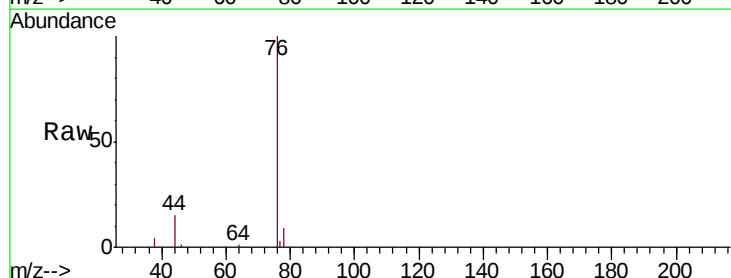
Acq: 22 Aug 2019 15:13

Tgt Ion: 76 Resp: 126689

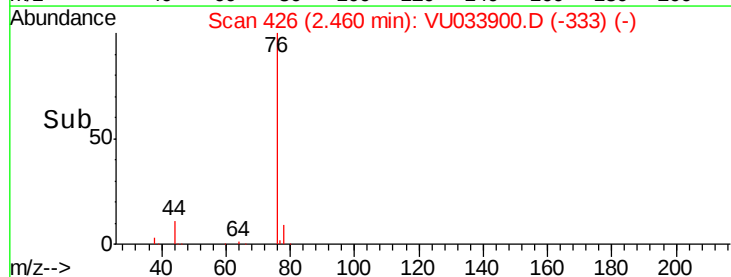
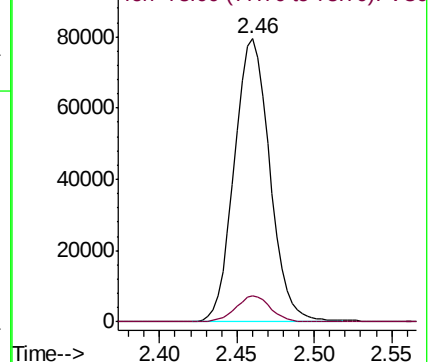
Ion Ratio Lower Upper

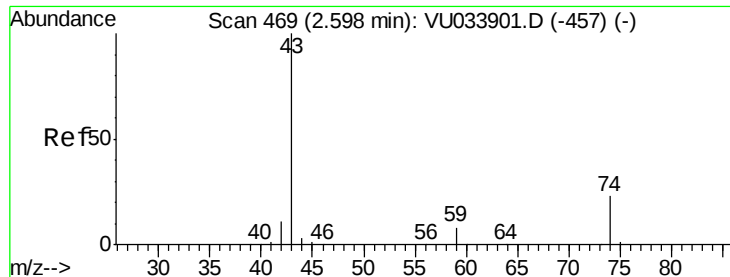
76 100

78 9.2 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VU033900.D (-413) (-)

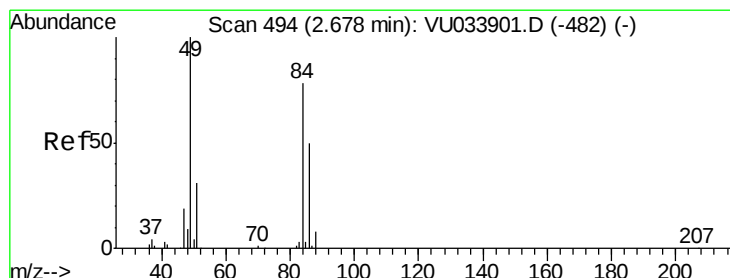
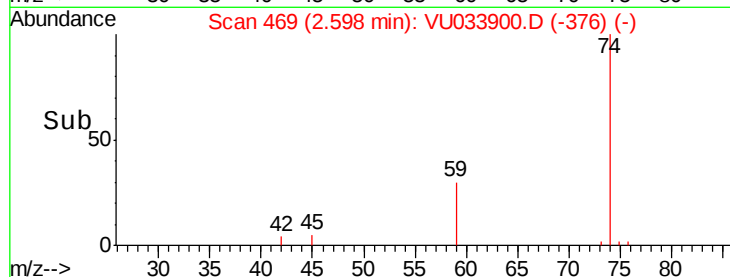
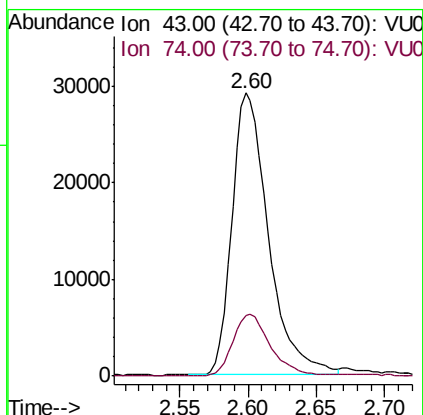
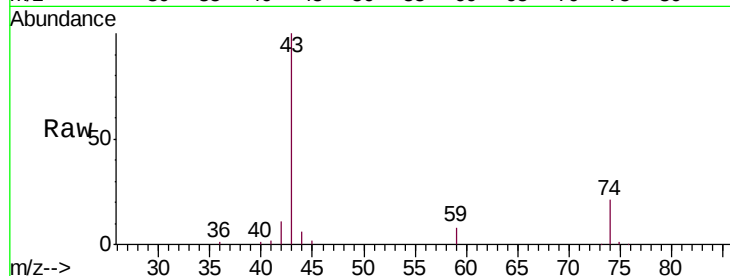




#15
Methyl Acetate
Concen: 11.991 ug/L
RT: 2.60 min Scan# 469
Delta R.T. 0.00 min
Lab File: VU033900.D
Acq: 22 Aug 2019 15:13

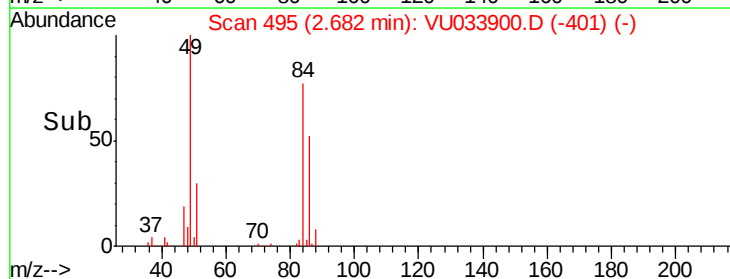
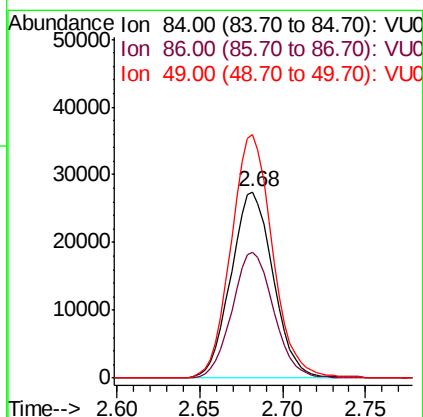
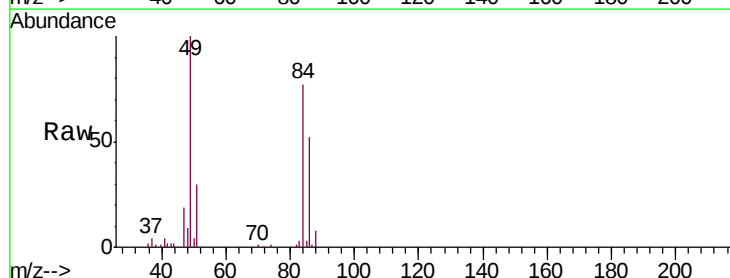
Instrument :
MSVOA_U
ClientSampleId :
VSTD01036

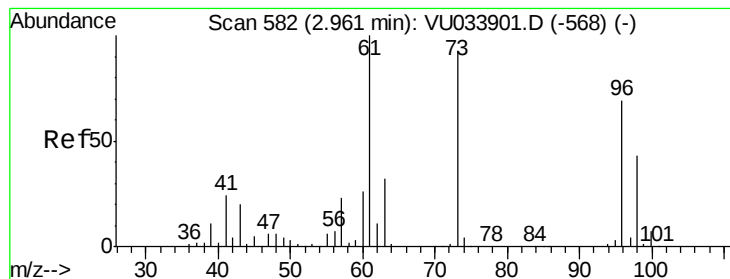
Tgt Ion: 43 Resp: 54211
Ion Ratio Lower Upper
43 100
74 22.7 18.6 27.8



#16
Methylene chloride
Concen: 10.676 ug/L
RT: 2.68 min Scan# 495
Delta R.T. 0.00 min
Lab File: VU033900.D
Acq: 22 Aug 2019 15:13

Tgt Ion: 84 Resp: 48720
Ion Ratio Lower Upper
84 100
86 67.6 45.3 84.1
49 130.6 90.2 167.6





#17

trans-1,2-Dichloroethene

Concen: 10.101 ug/L

RT: 2.96 min Scan# 583

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

VSTD01036

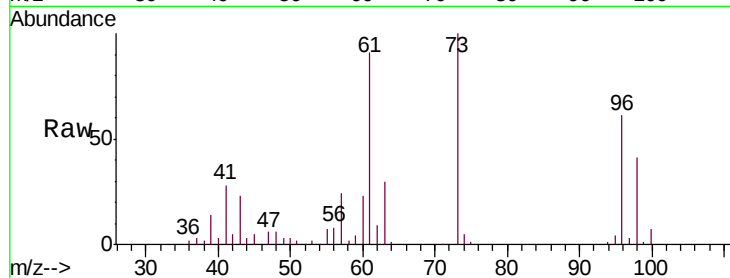
Tgt Ion: 96 Resp: 41309

Ion Ratio Lower Upper

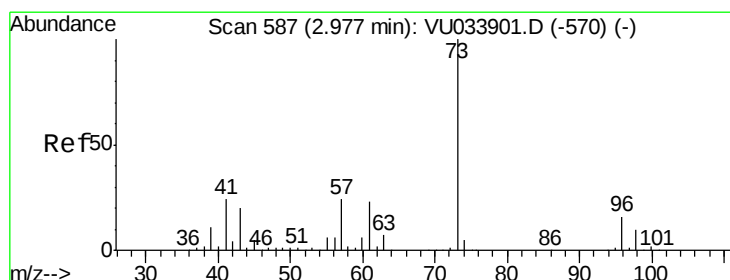
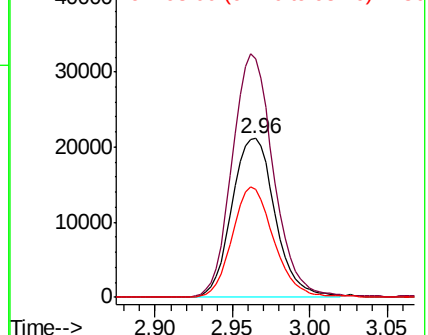
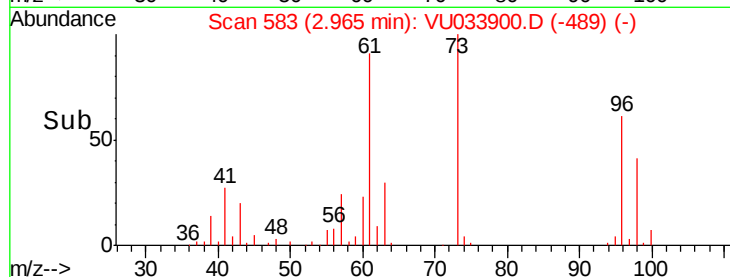
96 100

61 149.7 101.2 187.8

98 67.5 44.0 81.6



Abundance Ion 96.00 (95.70 to 96.70): VU033900.D (-489) (-)



#18

Methyl tert-butyl Ether

Concen: 9.912 ug/L

RT: 2.98 min Scan# 587

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

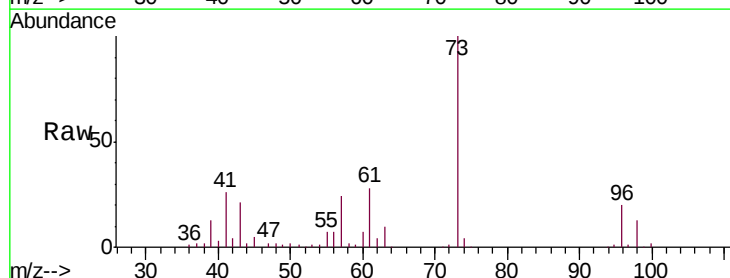
Tgt Ion: 73 Resp: 118929

Ion Ratio Lower Upper

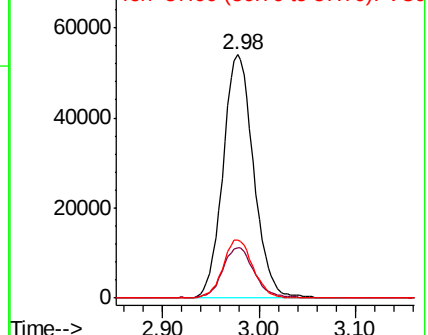
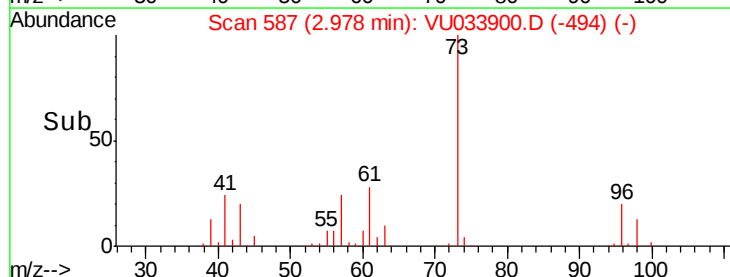
73 100

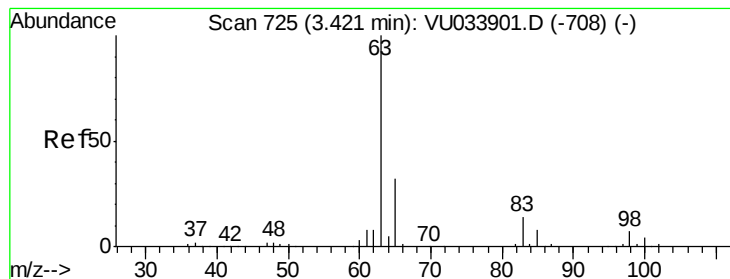
43 20.7 16.3 24.5

57 23.5 18.8 28.2



Abundance Ion 73.00 (72.70 to 73.70): VU033900.D (-494) (-)





#19

1,1-Dichloroethane

Concen: 10.804 ug/L

RT: 3.42 min Scan# 725

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

VSTD01036

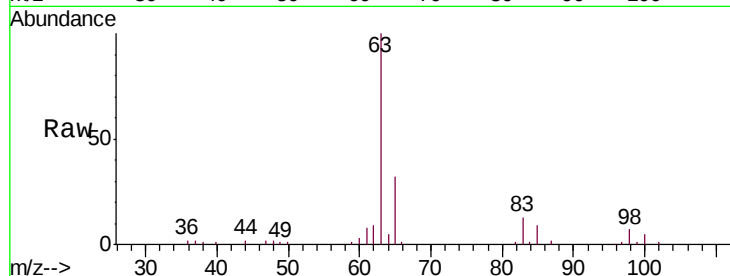
Tgt Ion: 63 Resp: 85702

Ion Ratio Lower Upper

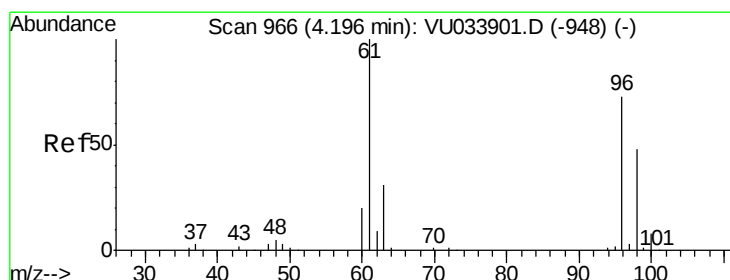
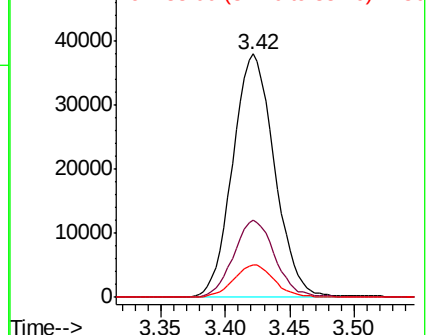
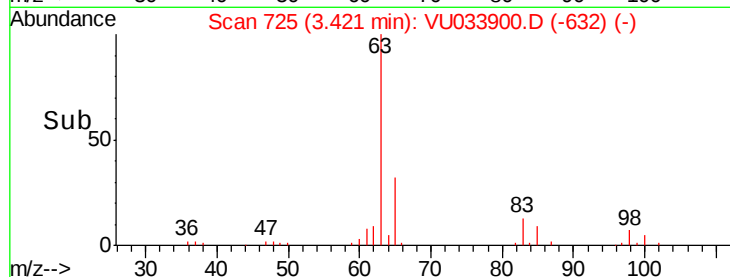
63 100

65 31.7 22.4 41.6

83 13.4 9.4 17.6



Abundance Ion 63.00 (62.70 to 63.70): VU033900.D (-632) (-)



#20

cis-1,2-Dichloroethene

Concen: 9.996 ug/L

RT: 4.20 min Scan# 967

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

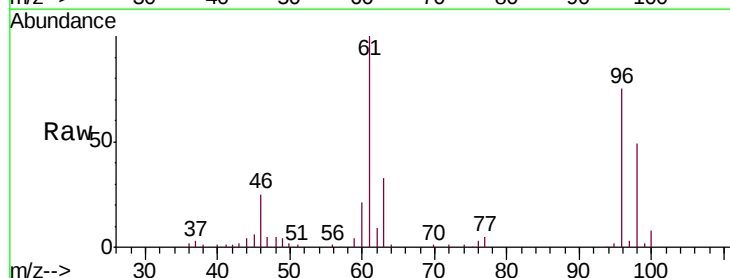
Tgt Ion: 96 Resp: 44251

Ion Ratio Lower Upper

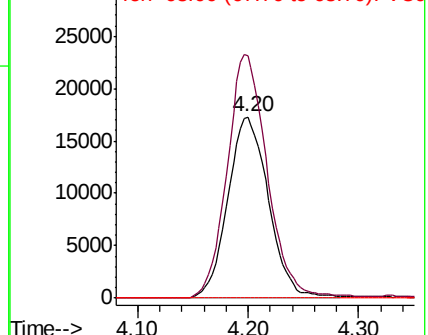
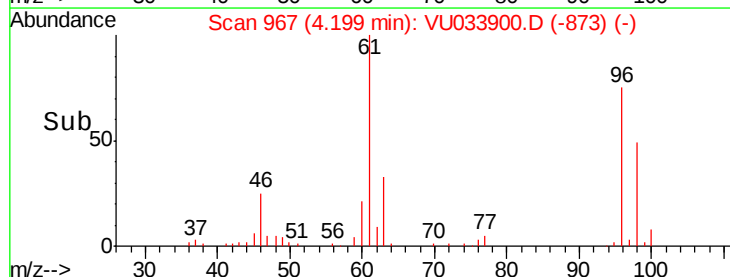
96 100

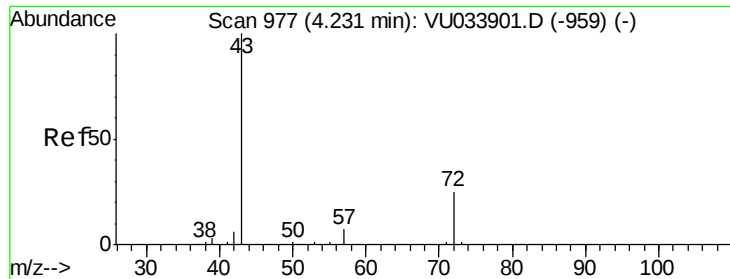
61 133.8 95.5 177.4

68 0.0 0.0 0.0



Abundance Ion 96.00 (95.70 to 96.70): VU033900.D (-873) (-)





#22

2-Butanone

Concen: 23.086 ug/L

RT: 4.24 min Scan# 980

Delta R.T. 0.01 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

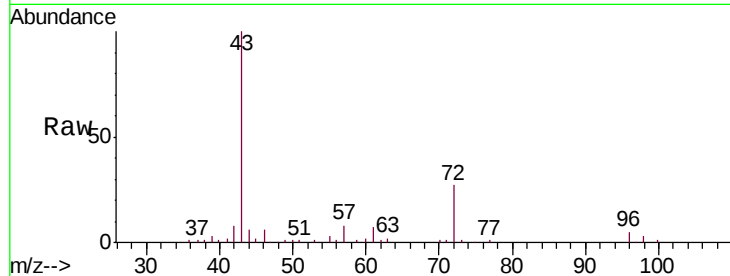
VSTD01036

Tgt Ion: 43 Resp: 73491

Ion Ratio Lower Upper

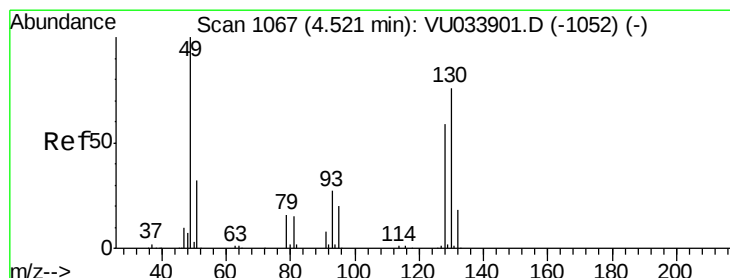
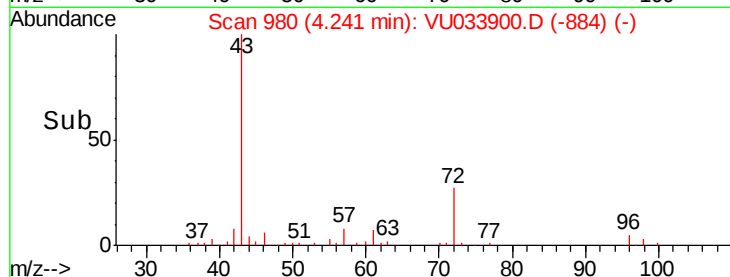
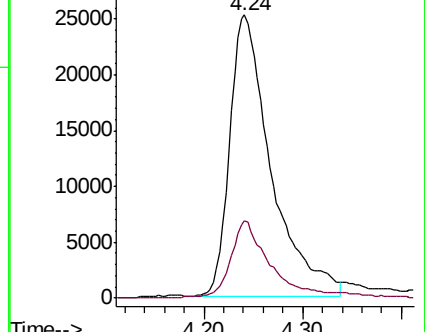
43 100

72 24.1 13.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VU033900.D (-980) (-)

Ion 72.00 (71.70 to 72.70): VU033900.D (-980) (-)



#23

Bromochloromethane

Concen: 10.390 ug/L

RT: 4.52 min Scan# 1068

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Tgt Ion: 128 Resp: 24838

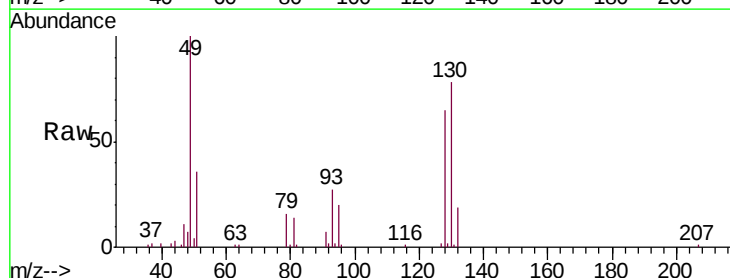
Ion Ratio Lower Upper

128 100

49 153.5 119.4 221.8

130 119.1 90.9 168.7

51 54.7 43.0 64.4

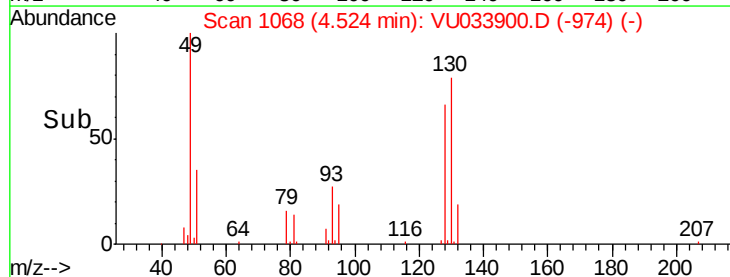
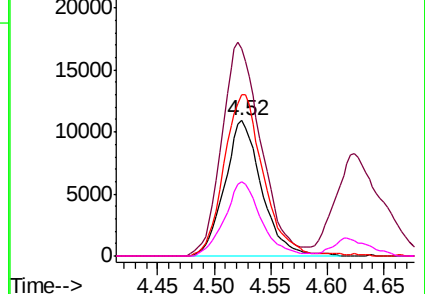


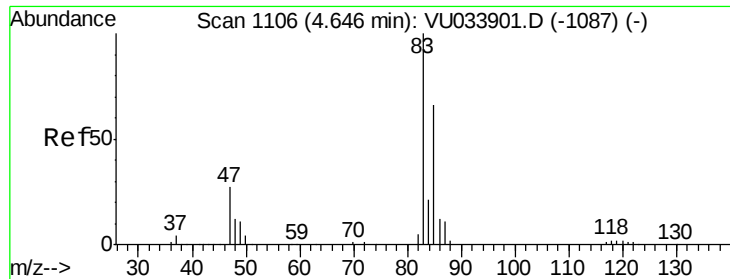
Abundance Ion 128.00 (127.70 to 128.70): VU033900.D (-1068) (-)

Ion 49.00 (48.70 to 49.70): VU033900.D (-1068) (-)

Ion 130.00 (129.70 to 130.70): VU033900.D (-1068) (-)

Ion 51.00 (50.70 to 51.70): VU033900.D (-1068) (-)

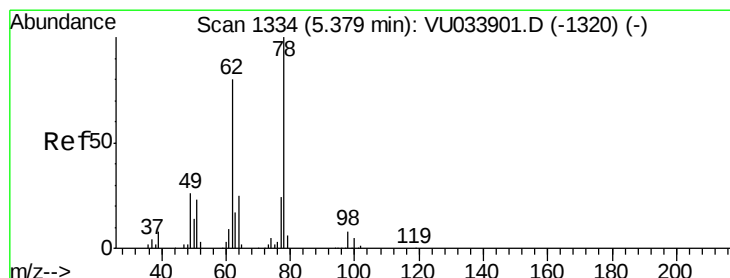
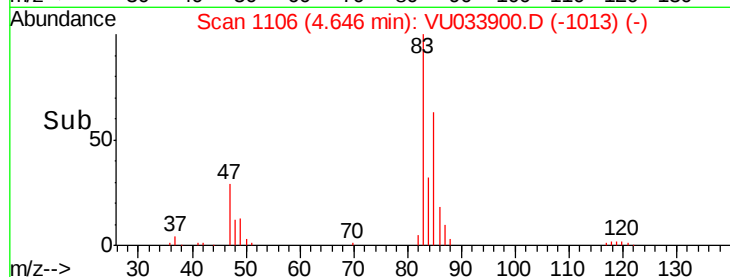
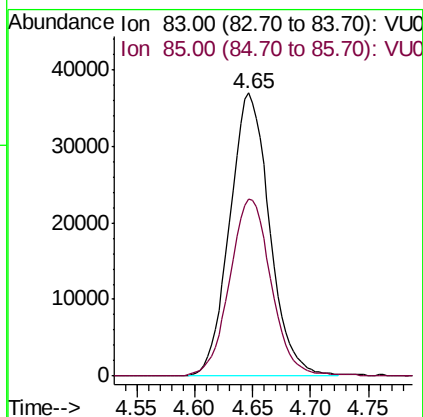
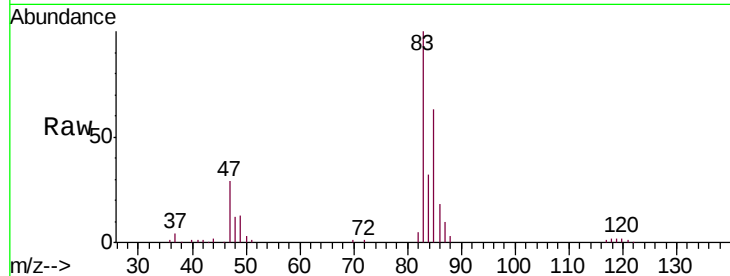




#25
Chloroform
Concen: 10.779 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. 0.00 min
Lab File: VU033900.D
Acq: 22 Aug 2019 15:13

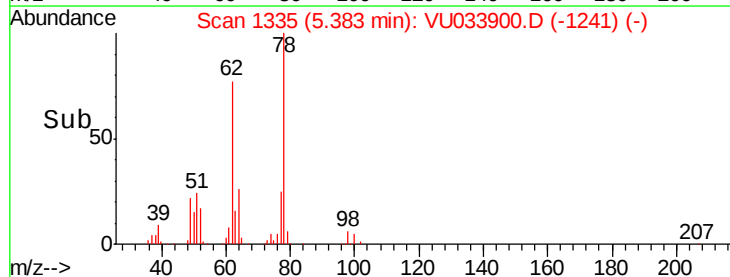
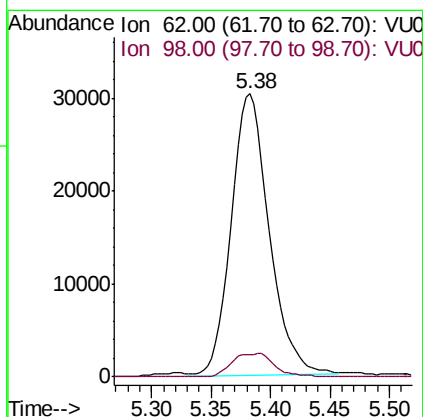
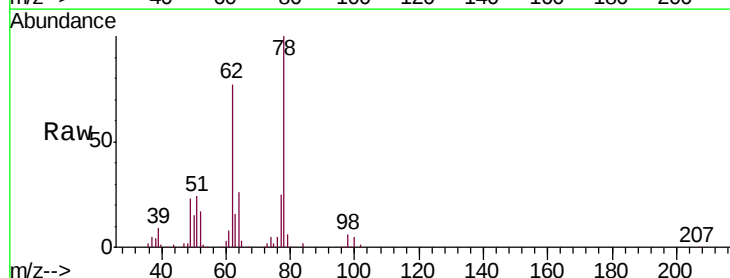
Instrument :
MSVOA_U
ClientSampleId :
VSTD01036

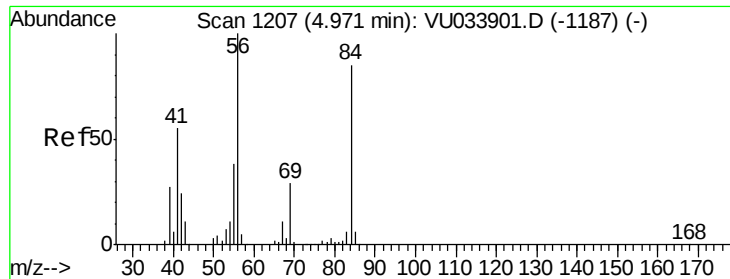
Tgt Ion: 83 Resp: 88200
Ion Ratio Lower Upper
83 100
85 62.5 46.2 85.8



#27
1,2-Dichloroethane
Concen: 10.778 ug/L
RT: 5.38 min Scan# 1335
Delta R.T. 0.00 min
Lab File: VU033900.D
Acq: 22 Aug 2019 15:13

Tgt Ion: 62 Resp: 67123
Ion Ratio Lower Upper
62 100
98 7.9 7.5 11.3

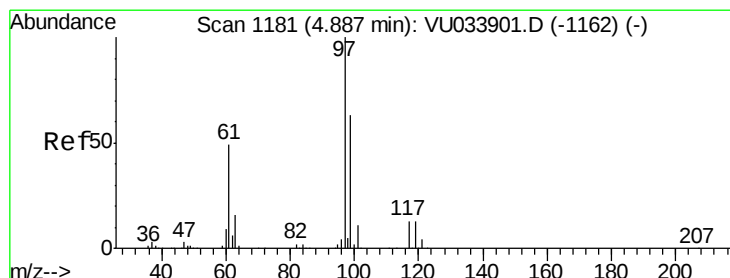
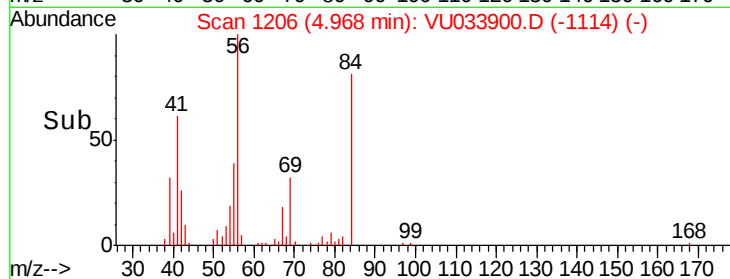
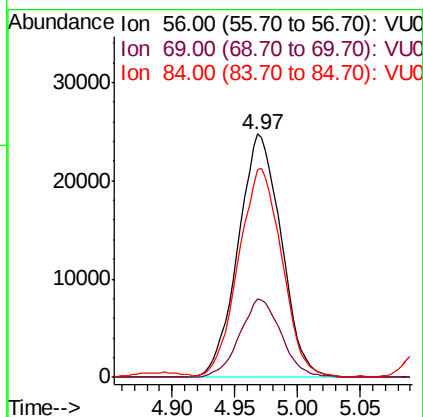
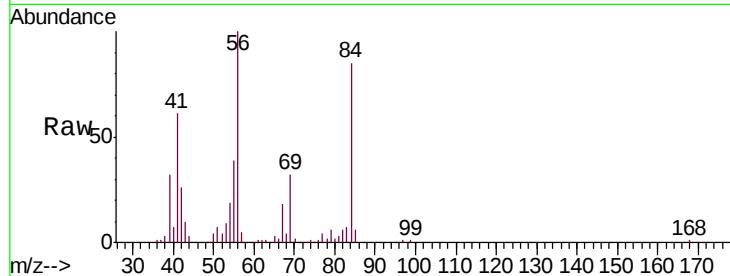




#29
Cyclohexane
Concen: 9.500 ug/L
RT: 4.97 min Scan# 1206
Delta R.T. -0.00 min
Lab File: VU033900.D
Acq: 22 Aug 2019 15:13

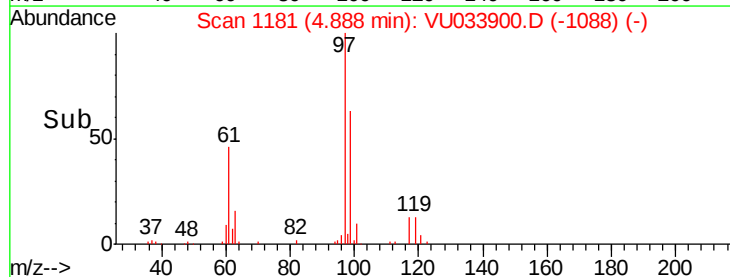
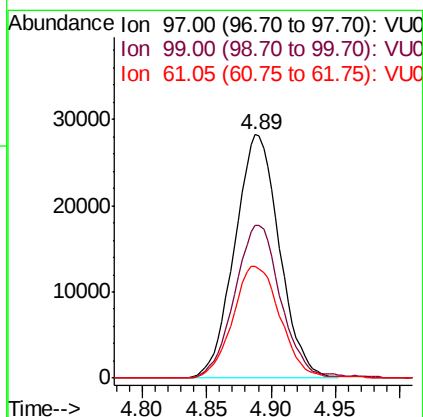
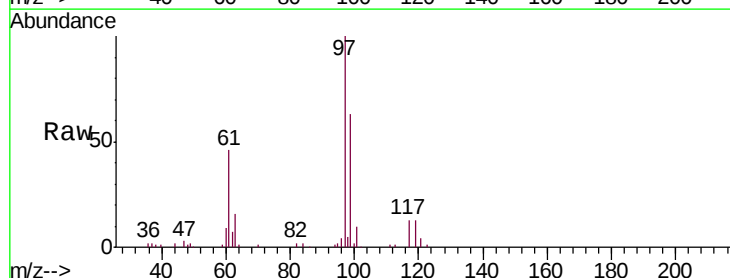
Instrument :
MSVOA_U
ClientSampleId :
VSTD01036

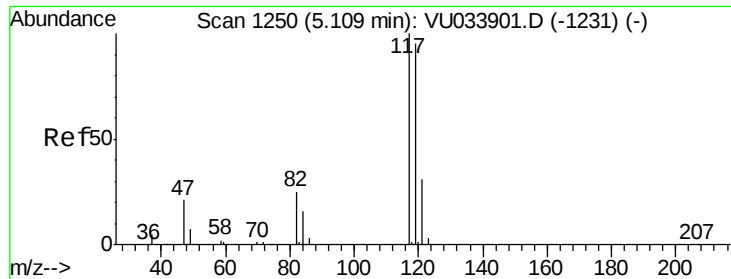
Tgt Ion: 56 Resp: 59102
Ion Ratio Lower Upper
56 100
69 31.1 24.1 36.1
84 86.8 68.6 103.0



#30
1,1,1-Trichloroethane
Concen: 9.951 ug/L
RT: 4.89 min Scan# 1181
Delta R.T. 0.00 min
Lab File: VU033900.D
Acq: 22 Aug 2019 15:13

Tgt Ion: 97 Resp: 68164
Ion Ratio Lower Upper
97 100
99 64.3 51.1 76.7
61 48.6 38.6 57.8

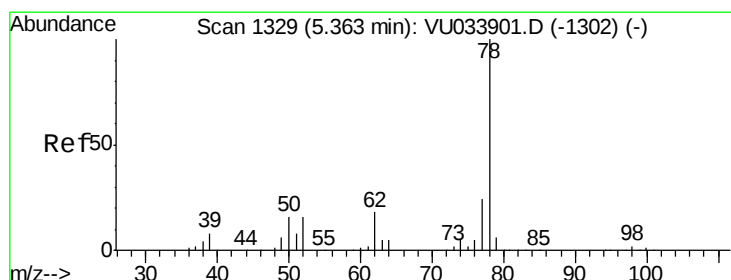
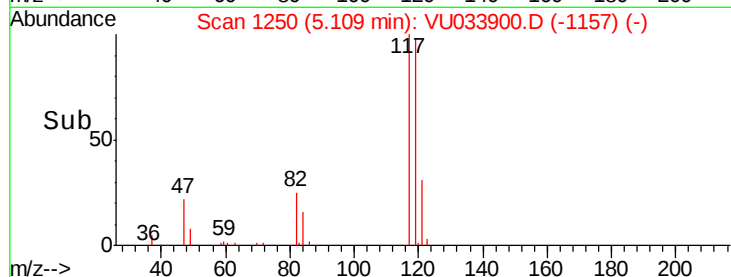
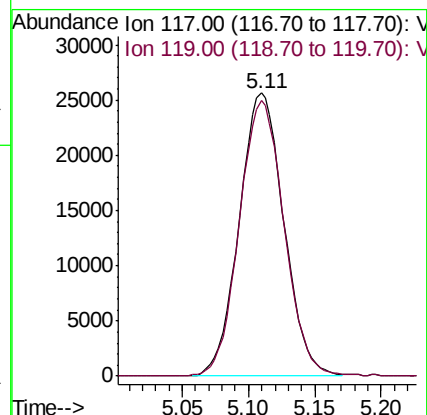
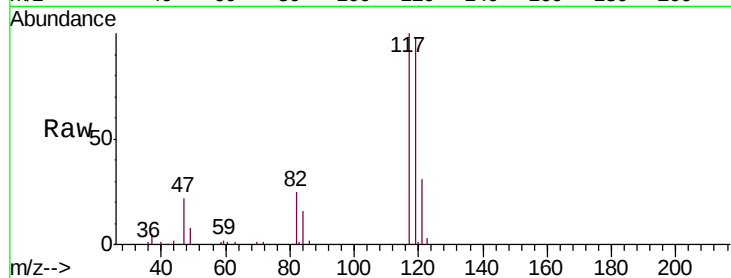




#31
Carbon tetrachloride
Concen: 9.654 ug/L
RT: 5.11 min Scan# 1250
Delta R.T. 0.00 min
Lab File: VU033900.D
Acq: 22 Aug 2019 15:13

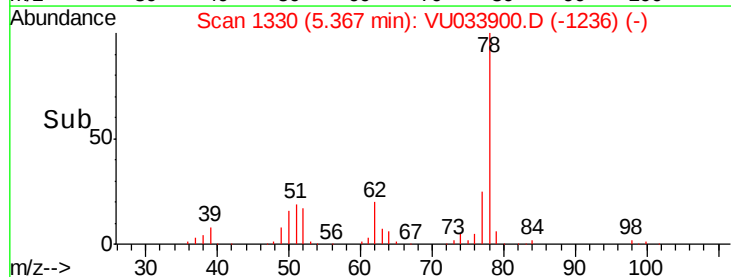
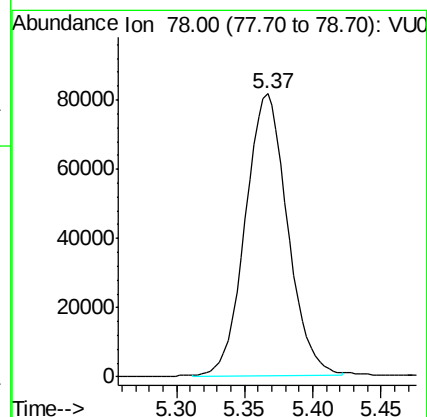
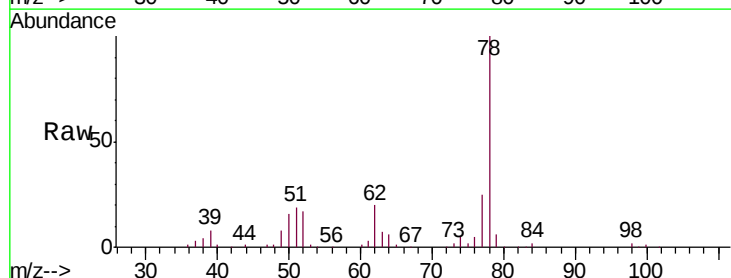
Instrument :
MSVOA_U
ClientSampleId :
VSTD01036

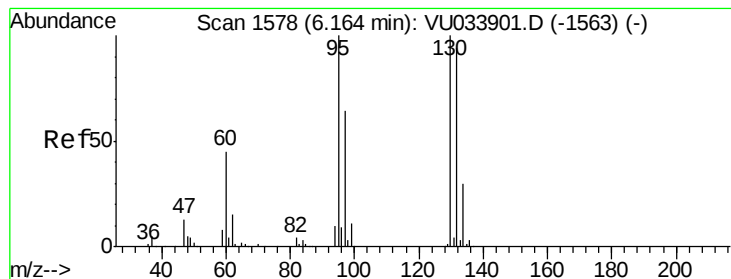
Tgt Ion: 117 Resp: 60050
Ion Ratio Lower Upper
117 100
119 97.6 76.3 114.5



#33
Benzene
Concen: 10.082 ug/L
RT: 5.37 min Scan# 1330
Delta R.T. 0.00 min
Lab File: VU033900.D
Acq: 22 Aug 2019 15:13

Tgt Ion: 78 Resp: 174674





#34

Trichloroethene

Concen: 10.225 ug/L

RT: 6.16 min Scan# 1578

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

VSTD01036

Tgt Ion: 95 Resp: 46860

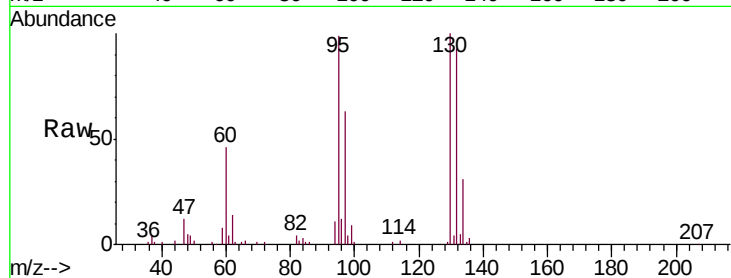
Ion Ratio Lower Upper

95 100

97 64.1 44.7 82.9

132 94.3 65.7 122.1

130 101.3 70.0 130.0

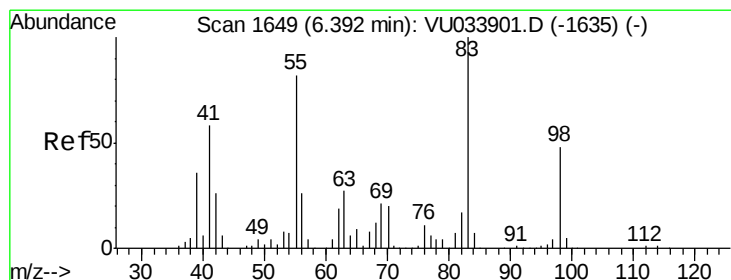
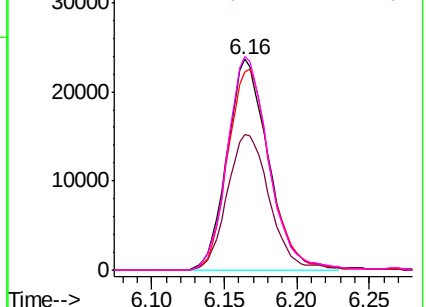
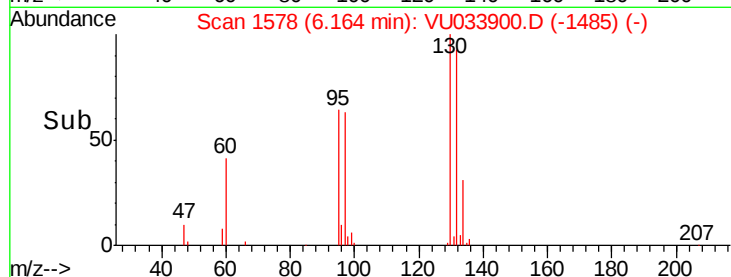


Abundance Ion 95.00 (94.70 to 95.70): VU0

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: 9.112 ug/L

RT: 6.39 min Scan# 1649

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

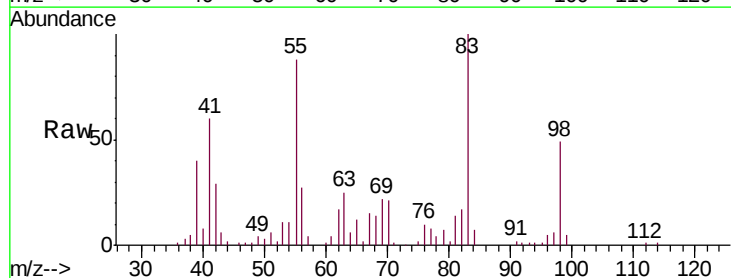
Tgt Ion: 83 Resp: 61789

Ion Ratio Lower Upper

83 100

55 88.5 64.4 96.6

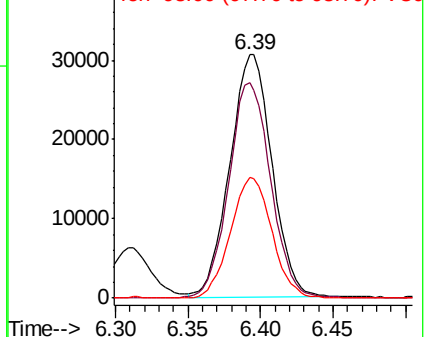
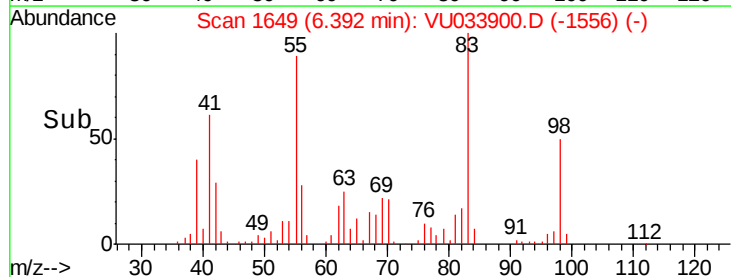
98 48.8 38.7 58.1

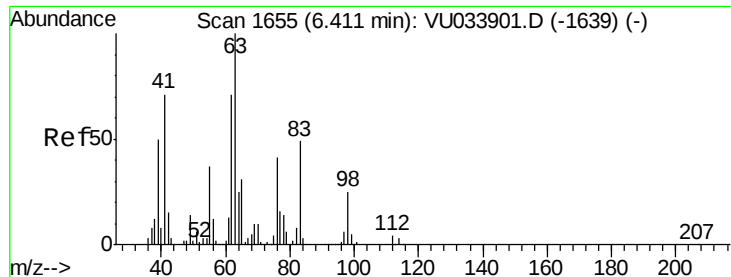


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 98.00 (97.70 to 98.70): VU0





#37

1,2-Dichloropropane

Concen: 10.268 ug/L

RT: 6.41 min Scan# 1655

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

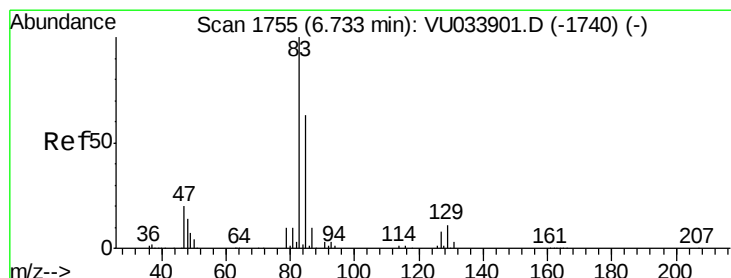
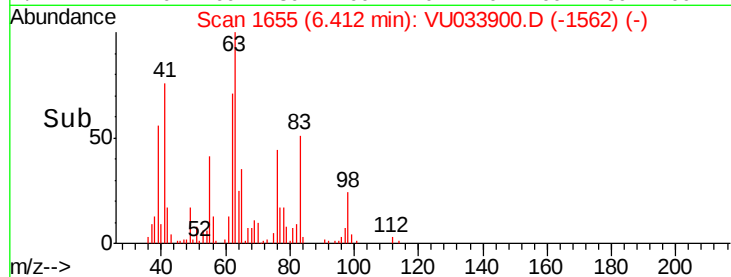
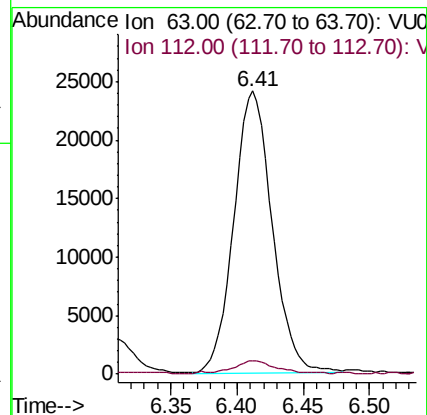
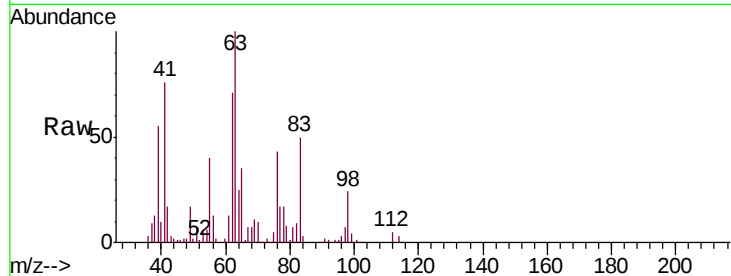
VSTD01036

Tgt Ion: 63 Resp: 48618

Ion Ratio Lower Upper

63 100

112 4.9 3.5 5.3



#38

Bromodichloromethane

Concen: 10.378 ug/L

RT: 6.74 min Scan# 1756

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

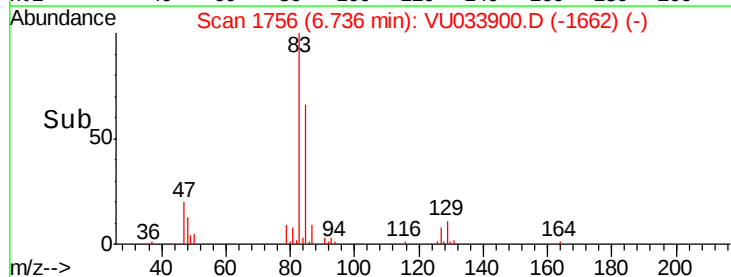
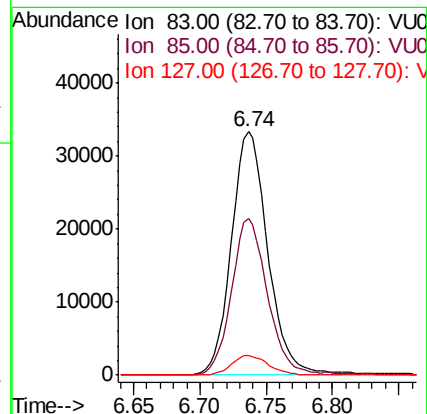
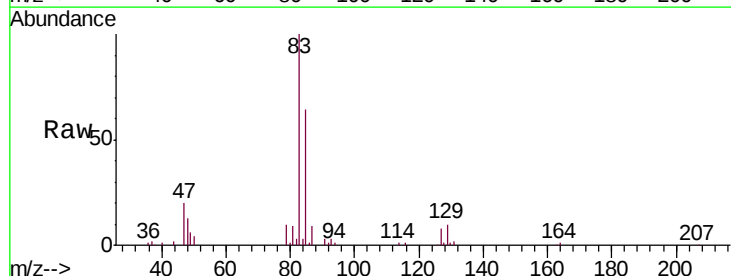
Tgt Ion: 83 Resp: 63650

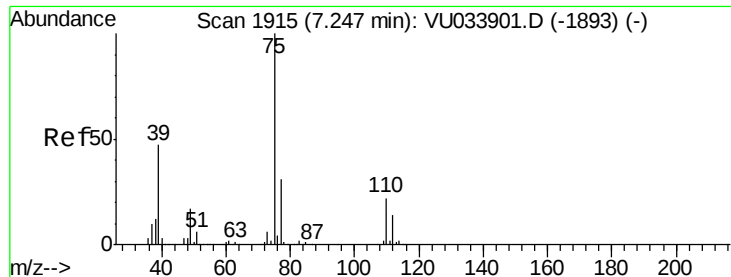
Ion Ratio Lower Upper

83 100

85 64.5 44.0 81.8

127 8.3 6.8 10.2

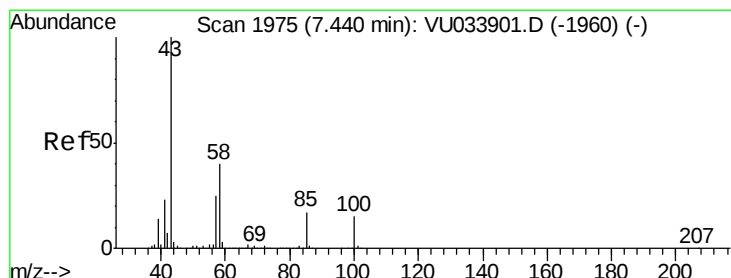
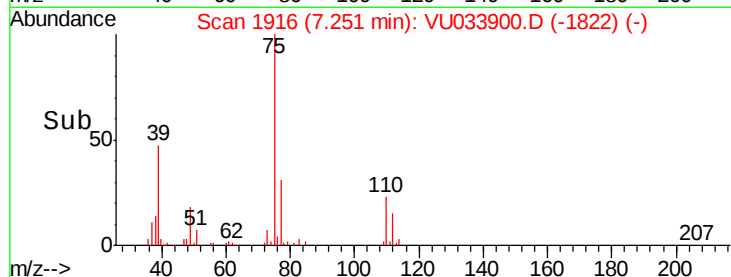
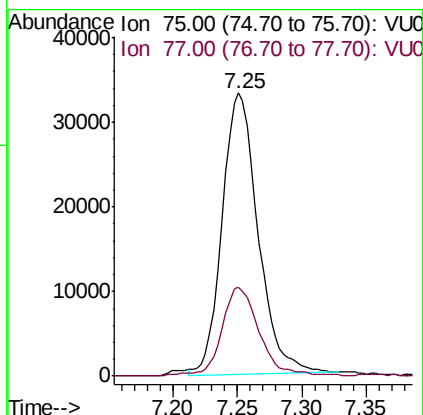
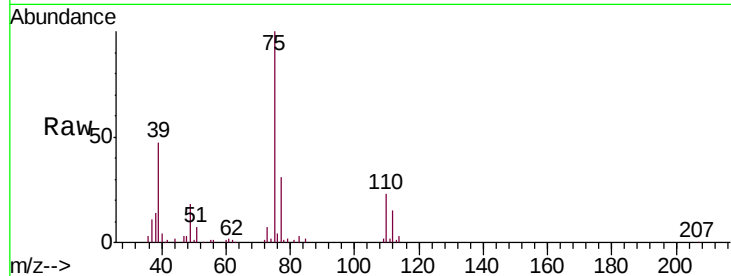




#39
 cis-1,3-Dichloropropene
 Concen: 9.217 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VU033900.D
 Acq: 22 Aug 2019 15:13

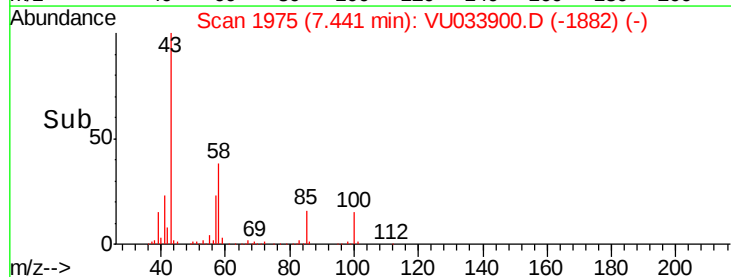
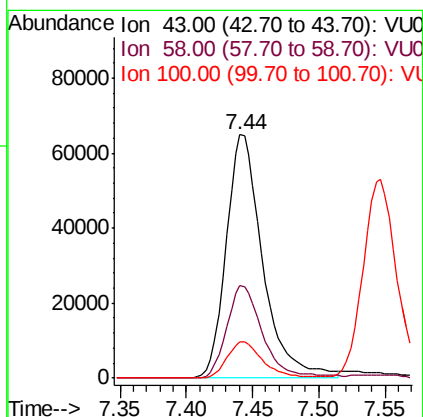
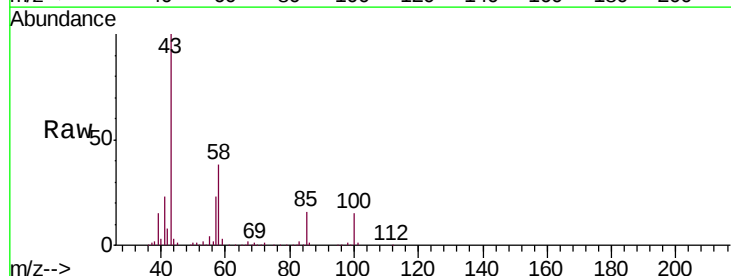
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01036

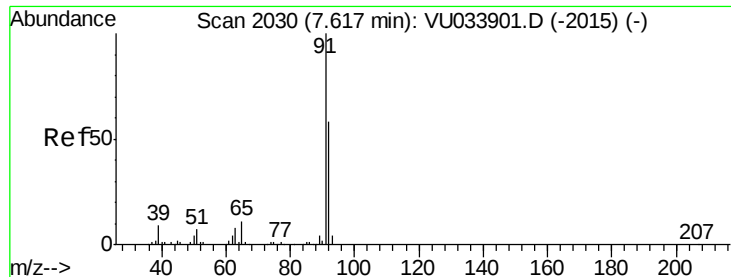
Tgt Ion: 75 Resp: 63942
 Ion Ratio Lower Upper
 75 100
 77 31.5 21.8 40.4



#40
 4-Methyl-2-pentanone
 Concen: 21.463 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. 0.00 min
 Lab File: VU033900.D
 Acq: 22 Aug 2019 15:13

Tgt Ion: 43 Resp: 124194
 Ion Ratio Lower Upper
 43 100
 58 37.5 31.6 47.4
 100 14.7 12.0 18.0





#42

Toluene

Concen: 9.788 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

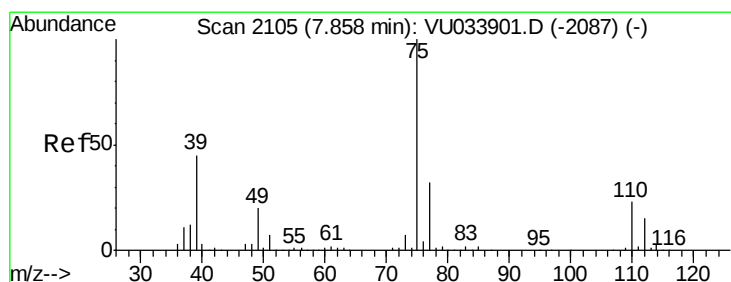
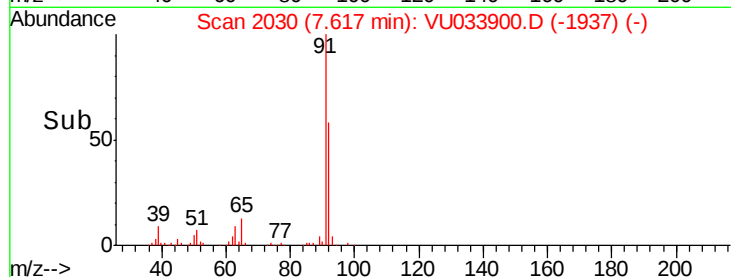
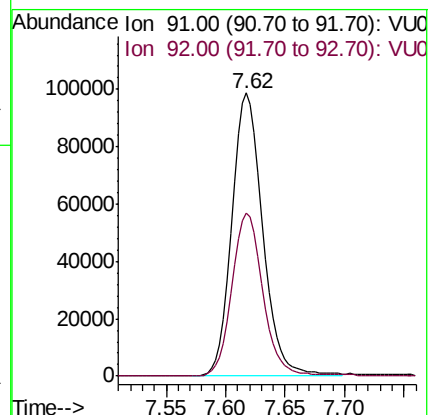
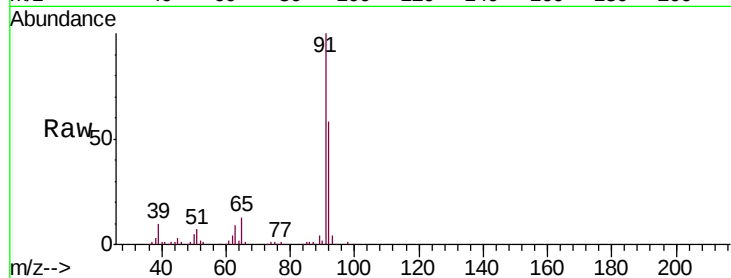
VSTD01036

Tgt Ion: 91 Resp: 178114

Ion Ratio Lower Upper

91 100

92 57.6 40.3 74.9



#44

trans-1,3-Dichloropropene

Concen: 9.338 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. 0.00 min

Lab File: VU033900.D

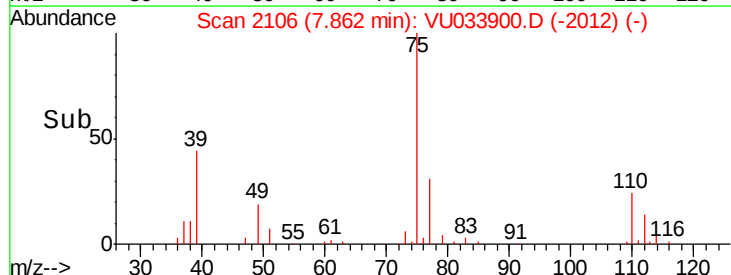
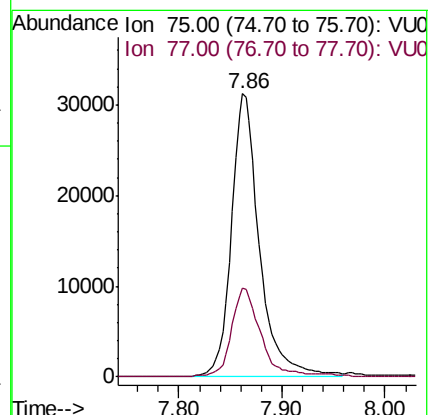
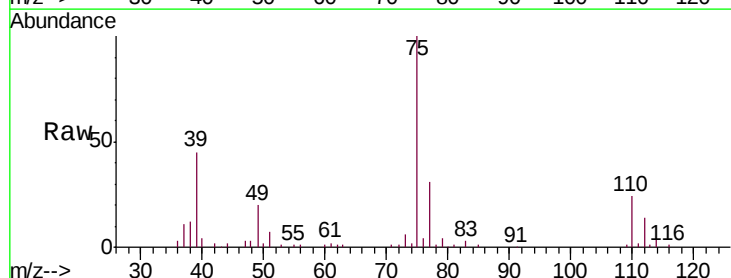
Acq: 22 Aug 2019 15:13

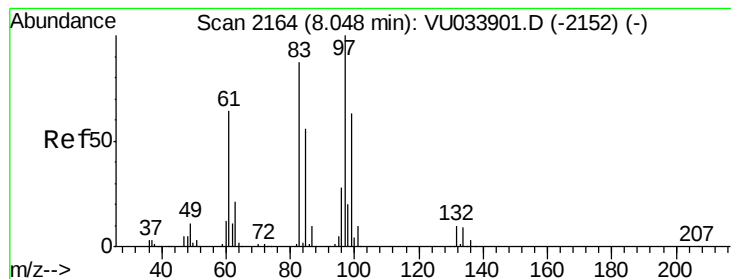
Tgt Ion: 75 Resp: 59370

Ion Ratio Lower Upper

75 100

77 31.2 22.3 41.3





#45

1,1,2-Trichloroethane

Concen: 10.280 ug/L

RT: 8.05 min Scan# 2164

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

VSTD01036

Tgt Ion: 97 Resp: 45629

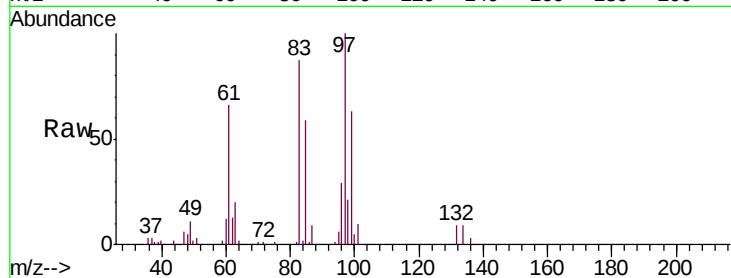
Ion Ratio Lower Upper

97 100

99 62.5 44.2 82.2

83 86.8 61.2 113.6

85 58.5 39.0 72.4

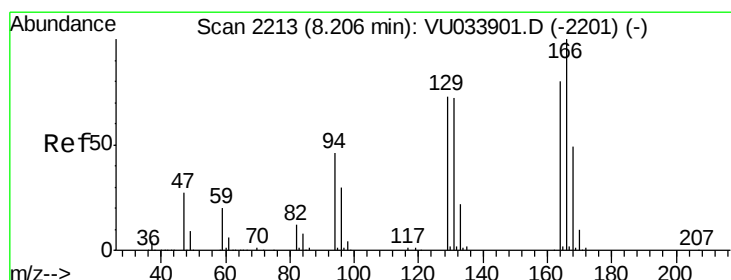
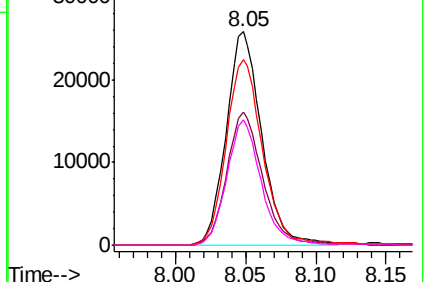
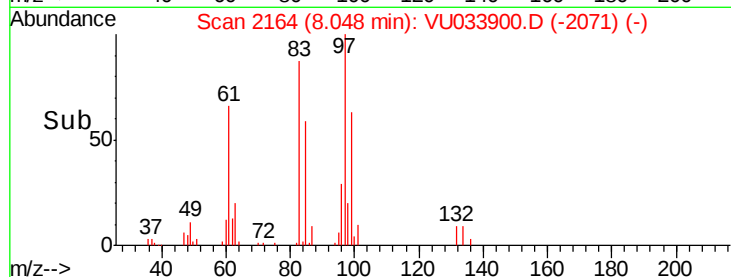


Abundance Ion 97.00 (96.70 to 97.70): VU033900.D (-2152) (-)

Ion 99.00 (98.70 to 99.70): VU033900.D (-2152) (-)

Ion 83.00 (82.70 to 83.70): VU033900.D (-2152) (-)

Ion 85.00 (84.70 to 85.70): VU033900.D (-2152) (-)



#46

Tetrachloroethene

Concen: 9.611 ug/L

RT: 8.21 min Scan# 2214

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Tgt Ion: 164 Resp: 35213

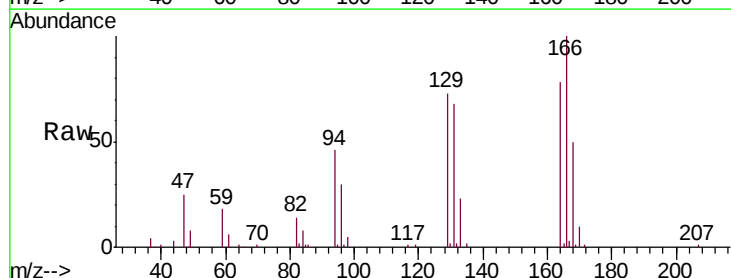
Ion Ratio Lower Upper

164 100

129 93.4 63.9 118.7

131 86.3 62.5 116.1

166 127.4 87.3 162.1

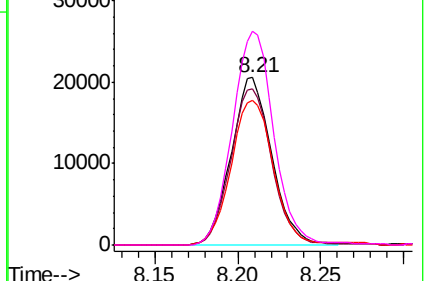
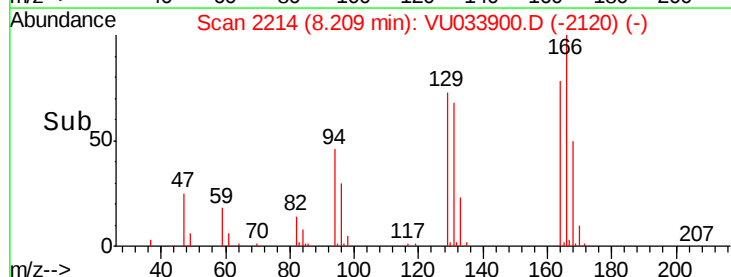


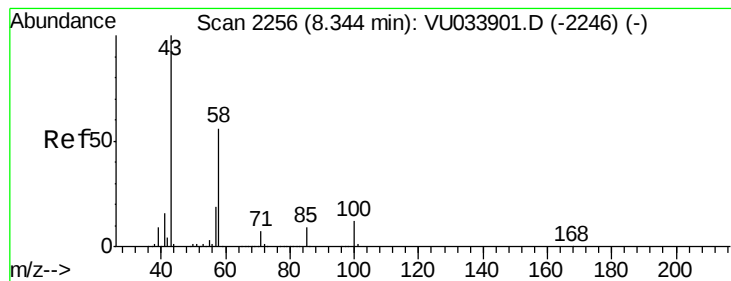
Abundance Ion 164.00 (163.70 to 164.70): VU033900.D (-2201) (-)

Ion 129.00 (128.70 to 129.70): VU033900.D (-2201) (-)

Ion 131.00 (130.70 to 131.70): VU033900.D (-2201) (-)

Ion 166.00 (165.70 to 166.70): VU033900.D (-2201) (-)





#48

2-Hexanone

Concen: 21.219 ug/L

RT: 8.35 min Scan# 2257

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

VSTD01036

Tgt Ion: 43 Resp: 95878

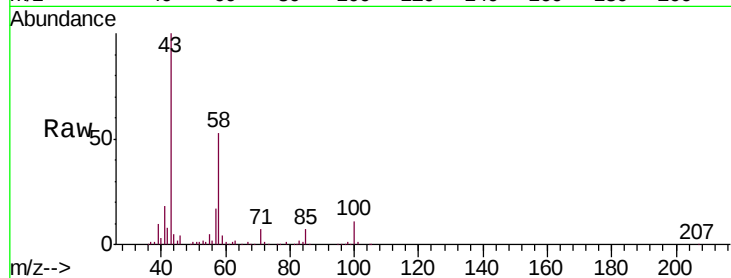
Ion Ratio Lower Upper

43 100

58 50.7 44.3 66.5

57 16.1 15.3 22.9

100 11.2 9.4 14.2

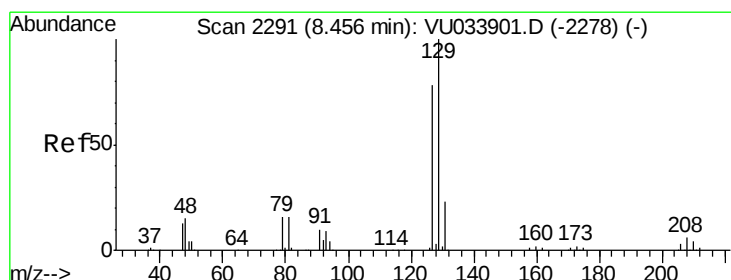
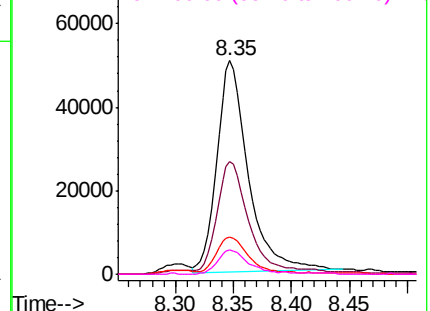
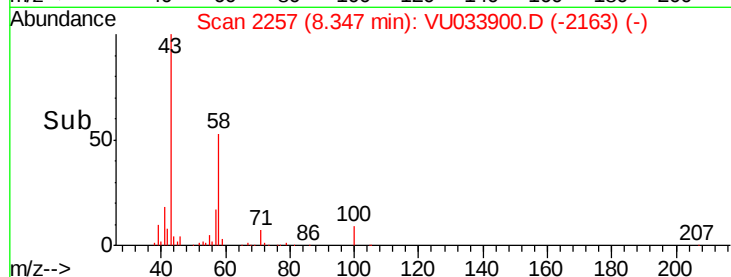


Abundance Ion 43.00 (42.70 to 43.70): VU033900.D (-2163) (-)

Ion 58.00 (57.70 to 58.70): VU033900.D (-2163) (-)

Ion 57.00 (56.70 to 57.70): VU033900.D (-2163) (-)

Ion 100.00 (99.70 to 100.70): VU033900.D (-2163) (-)



#49

Dibromochloromethane

Concen: 9.821 ug/L

RT: 8.46 min Scan# 2291

Delta R.T. 0.00 min

Lab File: VU033900.D

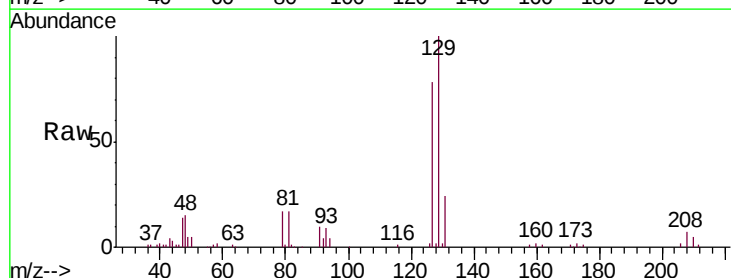
Acq: 22 Aug 2019 15:13

Tgt Ion: 129 Resp: 48843

Ion Ratio Lower Upper

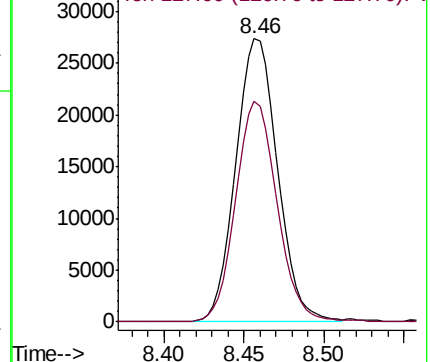
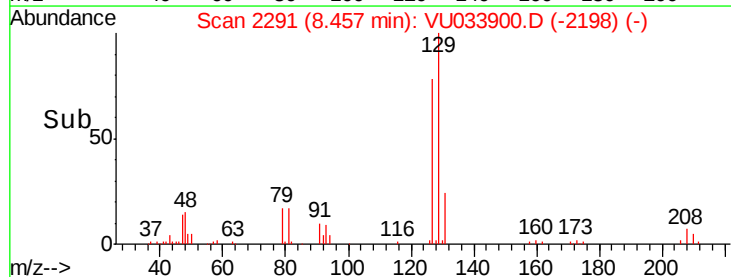
129 100

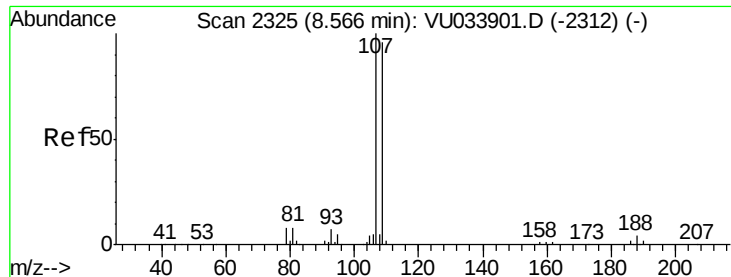
127 78.2 54.5 101.3



Abundance Ion 129.00 (128.70 to 129.70): VU033900.D (-2198) (-)

Ion 127.00 (126.70 to 127.70): VU033900.D (-2198) (-)





#50

1,2-Dibromoethane

Concen: 9.952 ug/L

RT: 8.57 min Scan# 2326

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

VSTD01036

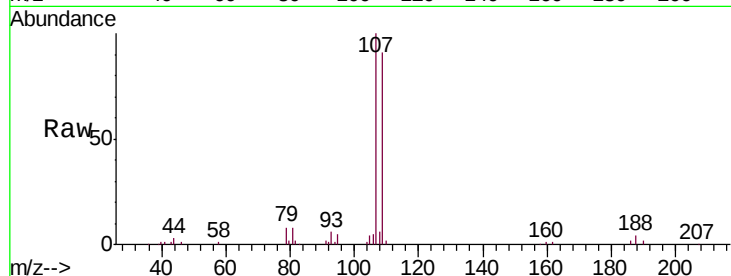
Tgt Ion:107 Resp: 46808

Ion Ratio Lower Upper

107 100

109 91.4 66.9 124.3

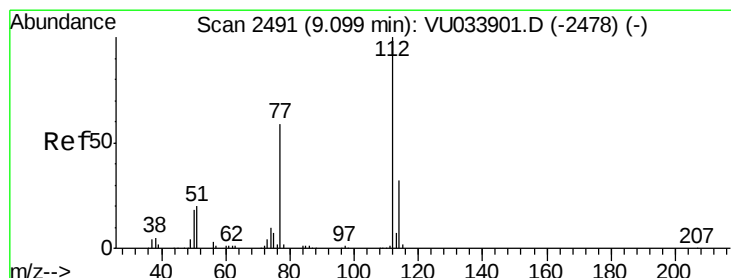
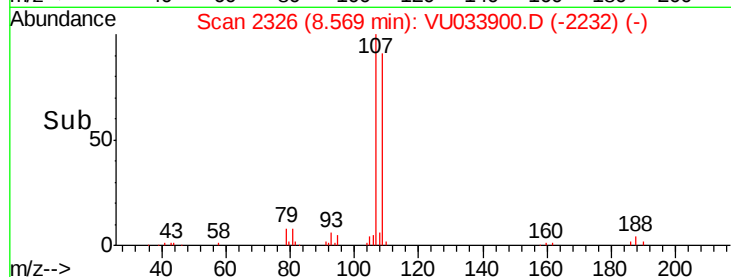
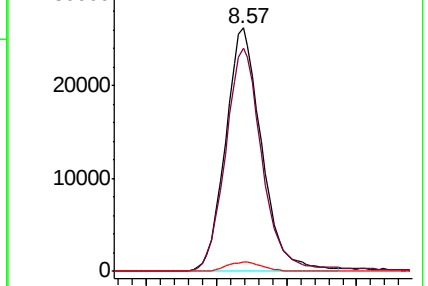
188 3.7 3.0 4.4



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V

Ion 188.00 (187.70 to 188.70): V



#51

Chlorobenzene

Concen: 10.122 ug/L

RT: 9.10 min Scan# 2491

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

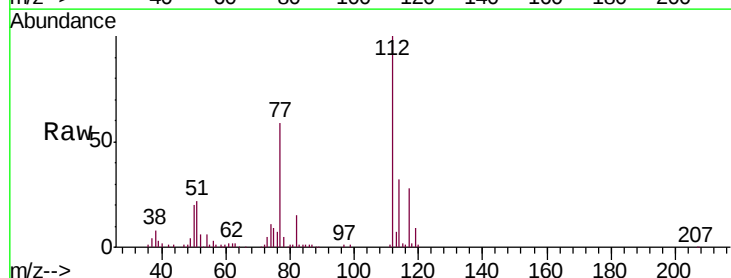
Tgt Ion:112 Resp: 121586

Ion Ratio Lower Upper

112 100

114 32.2 22.5 41.7

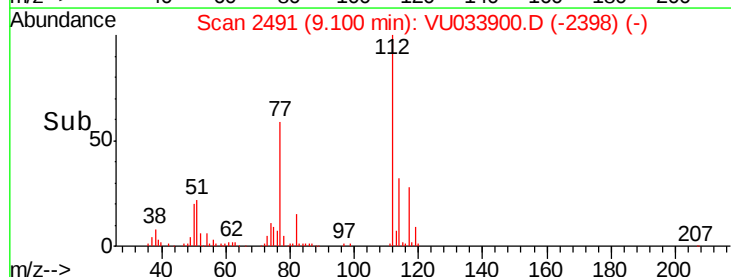
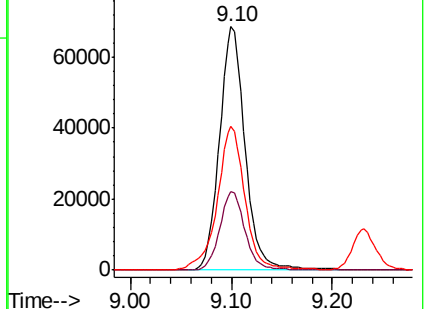
77 59.0 47.3 70.9

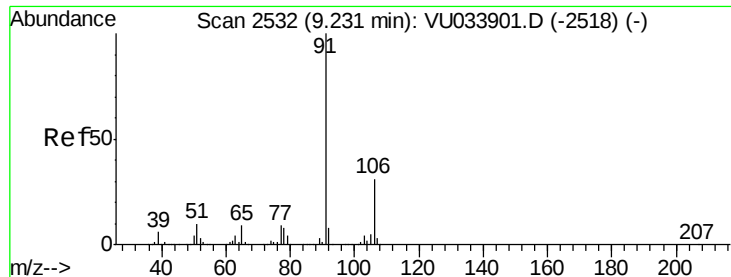


Abundance Ion 112.00 (111.70 to 112.70): V

Ion 114.00 (113.70 to 114.70): V

Ion 77.00 (76.70 to 77.70): VU





#52

Ethylbenzene

Concen: 9.656 ug/L

RT: 9.23 min Scan# 2532

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

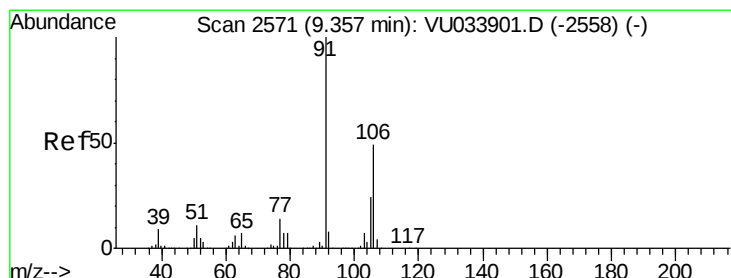
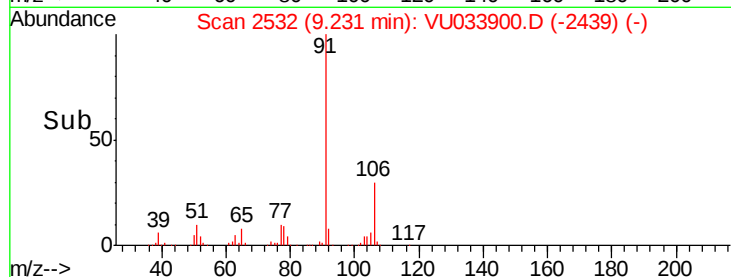
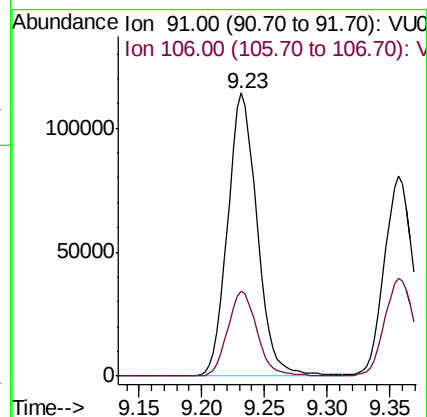
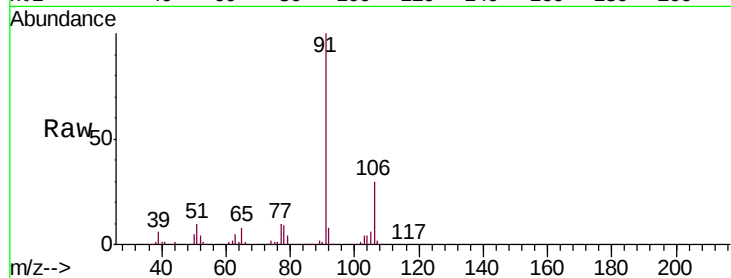
VSTD01036

Tgt Ion: 91 Resp: 186845

Ion Ratio Lower Upper

91 100

106 30.0 21.4 39.8



#53

m,p-Xylene

Concen: 9.194 ug/L

RT: 9.36 min Scan# 2571

Delta R.T. 0.00 min

Lab File: VU033900.D

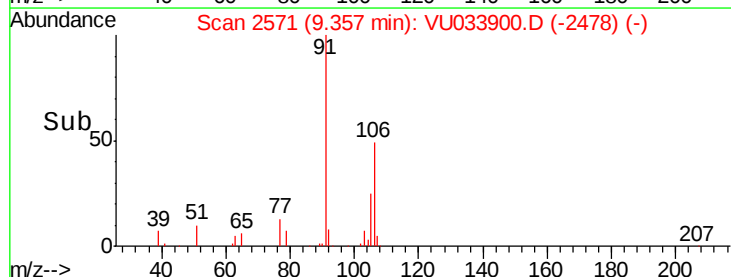
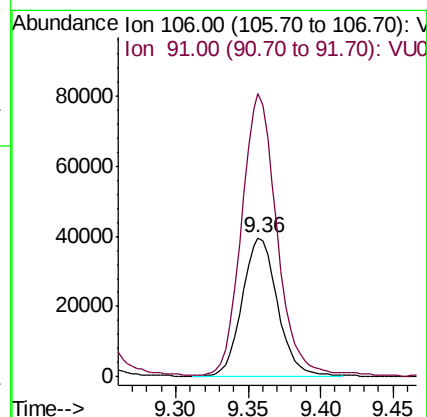
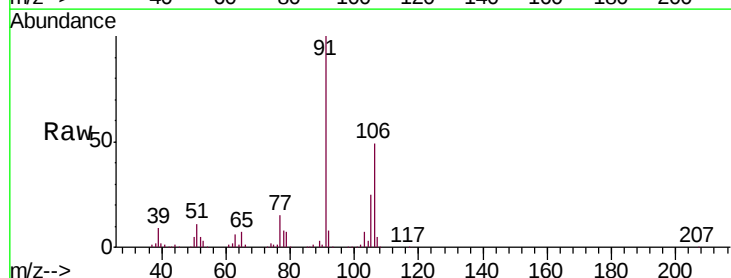
Acq: 22 Aug 2019 15:13

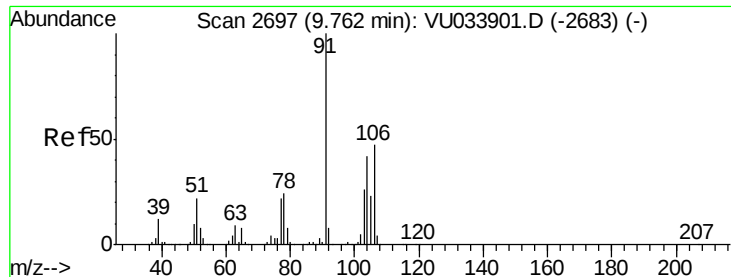
Tgt Ion: 106 Resp: 66372

Ion Ratio Lower Upper

106 100

91 203.5 142.2 264.0





#54

o-xylene

Concen: 9.495 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

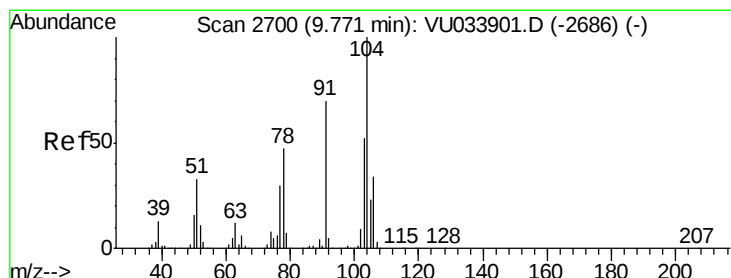
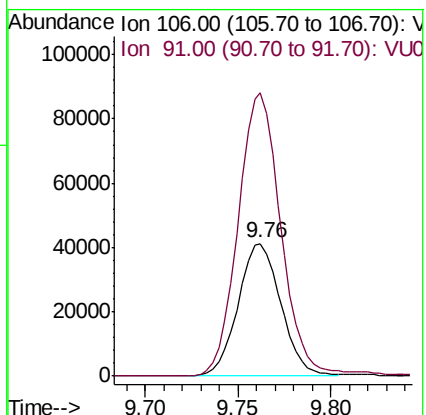
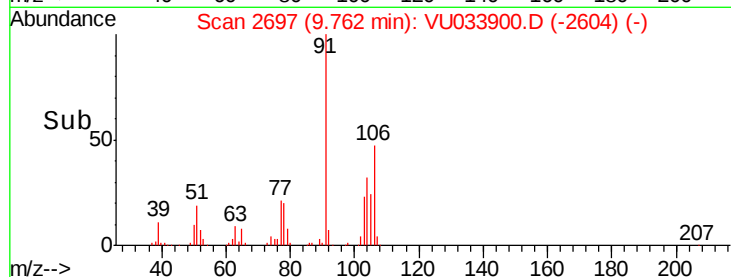
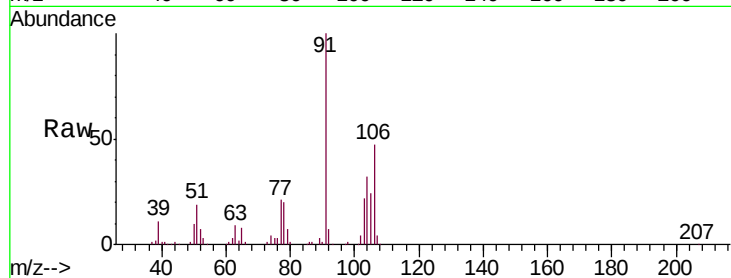
VSTD01036

Tgt Ion:106 Resp: 66576

Ion Ratio Lower Upper

106 100

91 212.9 148.6 276.0



#55

Styrene

Concen: 9.147 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. 0.00 min

Lab File: VU033900.D

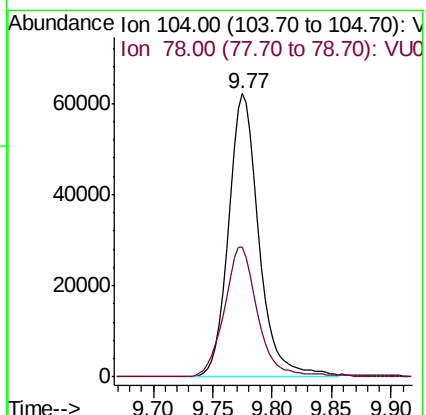
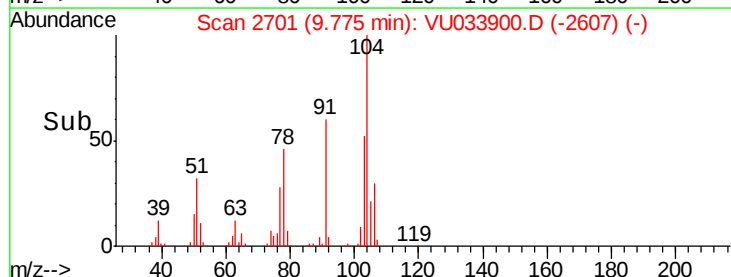
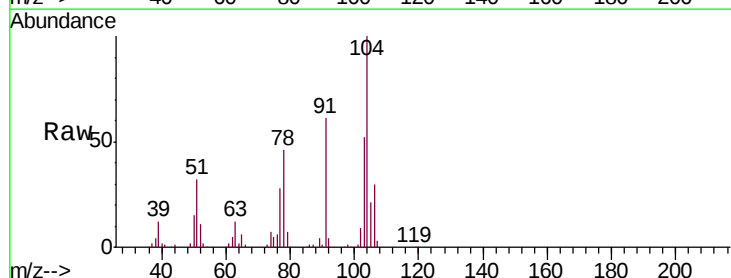
Acq: 22 Aug 2019 15:13

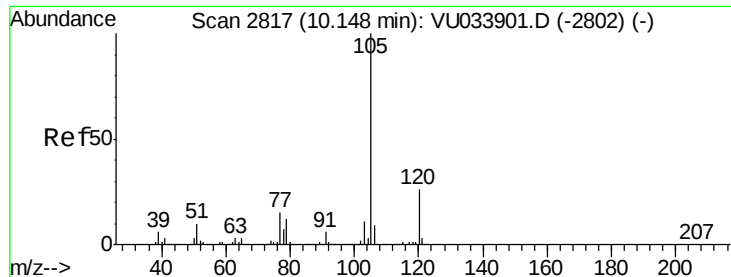
Tgt Ion:104 Resp: 109733

Ion Ratio Lower Upper

104 100

78 45.7 32.8 61.0





#56

Isopropylbenzene

Concen: 9.171 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

VSTD01036

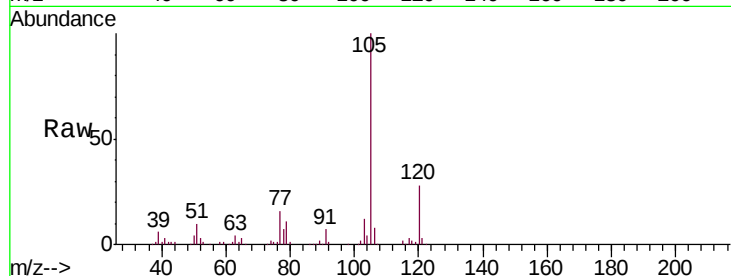
Tgt Ion: 105 Resp: 168018

Ion Ratio Lower Upper

105 100

120 27.0 21.2 31.8

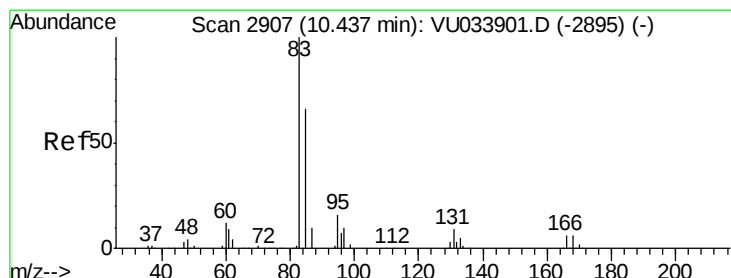
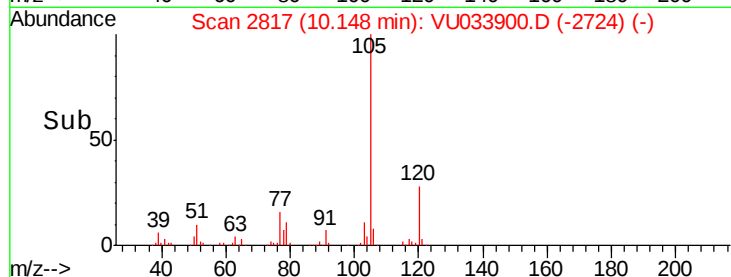
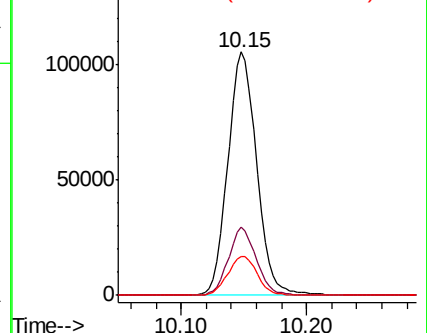
77 16.4 12.6 18.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

Ion 77.00 (76.70 to 77.70): V



#58

1,1,2,2-Tetrachloroethane

Concen: 10.380 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

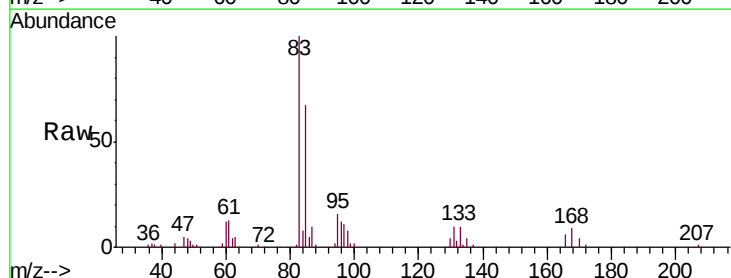
Tgt Ion: 83 Resp: 75232

Ion Ratio Lower Upper

83 100

85 67.1 46.3 85.9

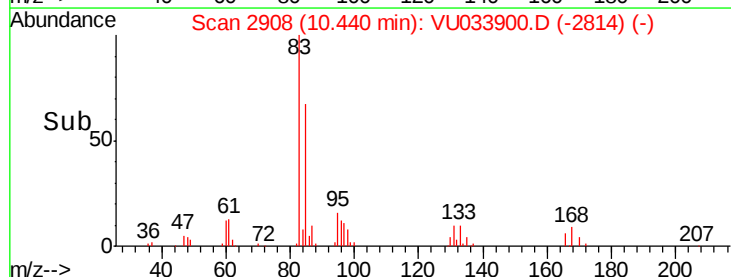
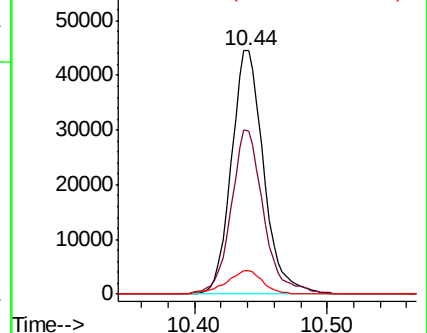
131 9.9 7.9 11.9

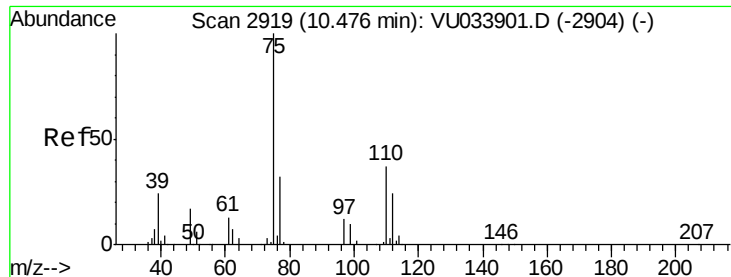


Abundance Ion 83.00 (82.70 to 83.70): VU0

Ion 85.00 (84.70 to 85.70): VU0

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 10.723 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

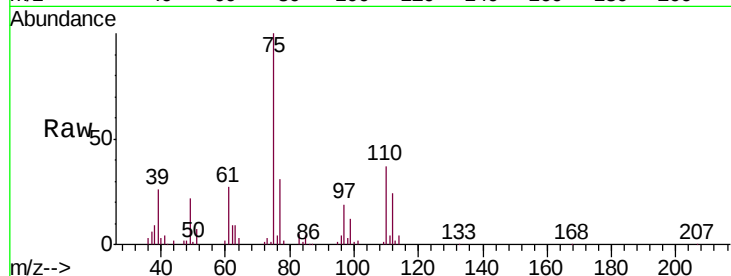
VSTD01036

Tgt Ion: 75 Resp: 62016

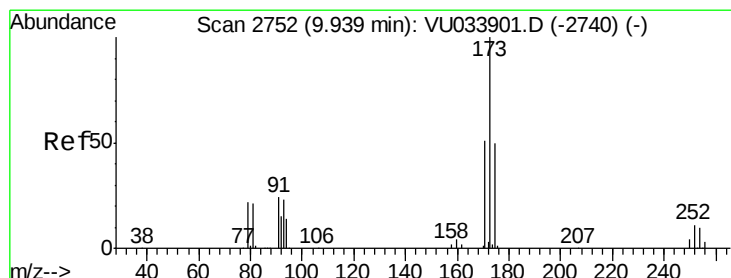
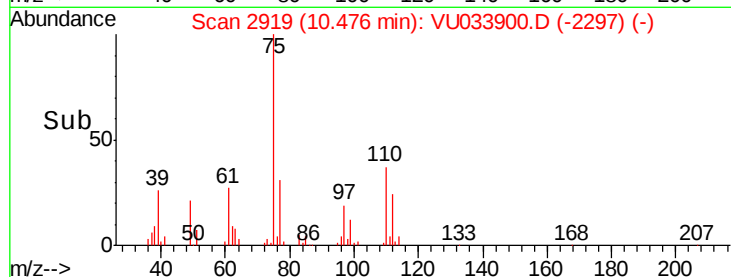
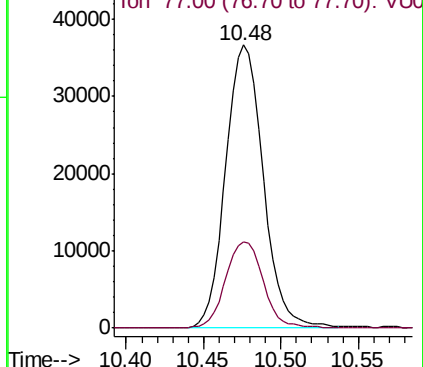
Ion Ratio Lower Upper

75 100

77 30.7 25.8 38.8



Abundance Ion 75.00 (74.70 to 75.70): VU033901.D (-2904) (-)



#61

Bromoform

Concen: 10.387 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

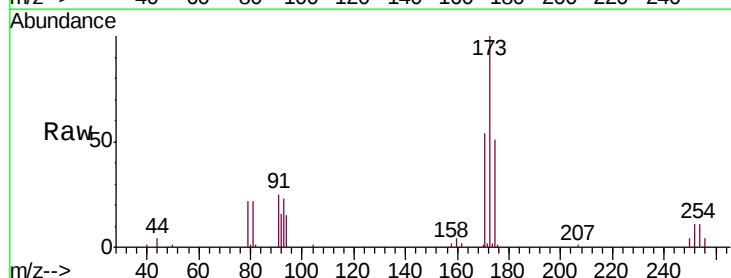
Tgt Ion: 173 Resp: 35355

Ion Ratio Lower Upper

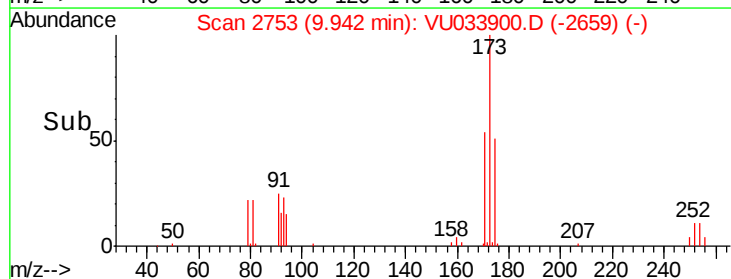
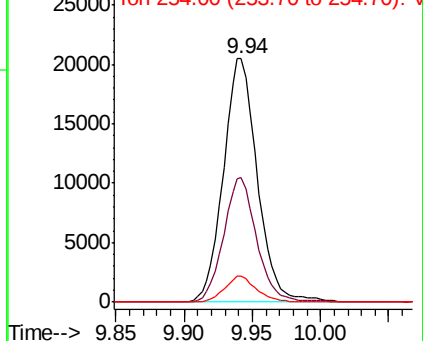
173 100

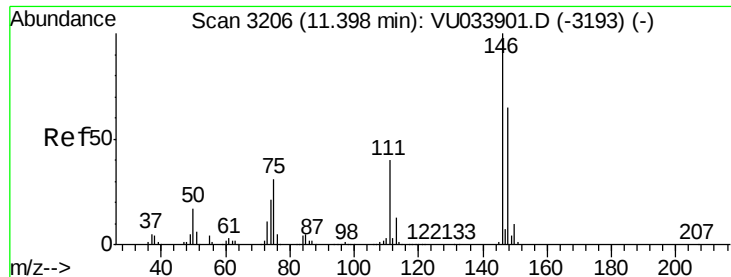
175 49.4 39.4 59.2

254 9.8 8.5 12.7



Abundance Ion 173.00 (172.70 to 173.70): VU033901.D (-2740) (-)





#62

1,3-Dichlorobenzene

Concen: 9.961 ug/L

RT: 11.40 min Scan# 3206

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

VSTD01036

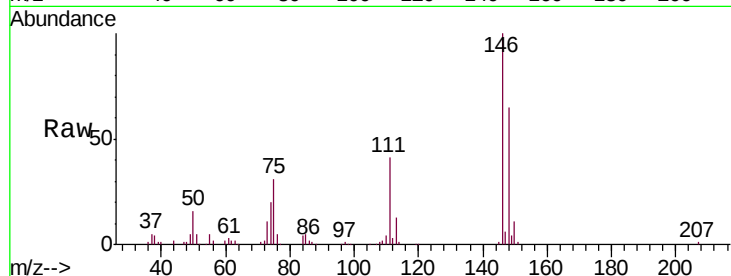
Tgt Ion:146 Resp: 85126

Ion Ratio Lower Upper

146 100

111 41.3 27.8 51.6

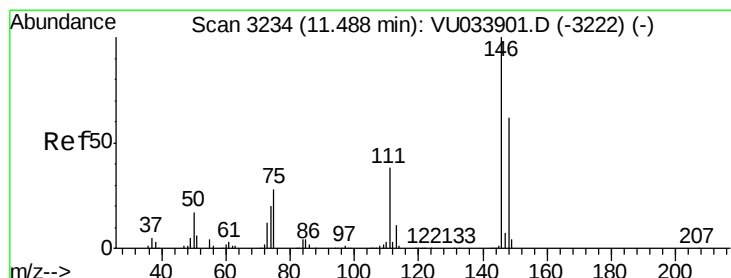
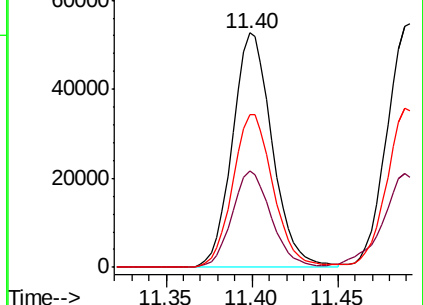
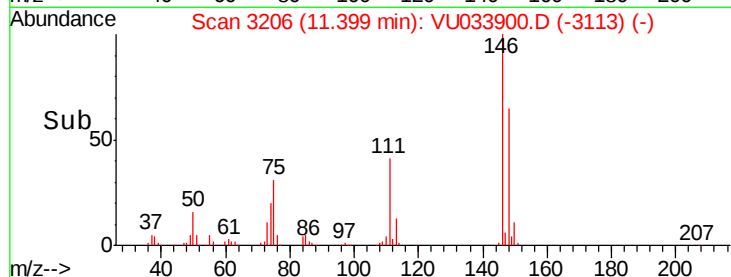
148 65.2 45.1 83.9



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 9.999 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

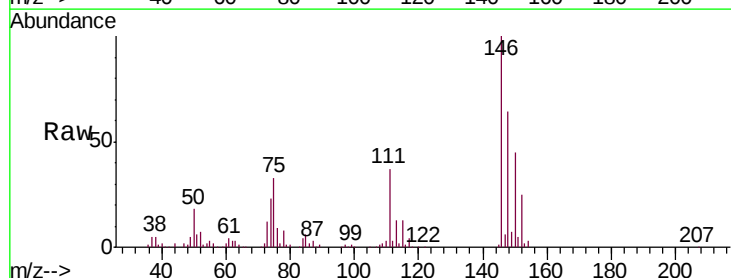
Tgt Ion:146 Resp: 88438

Ion Ratio Lower Upper

146 100

111 37.1 26.7 49.5

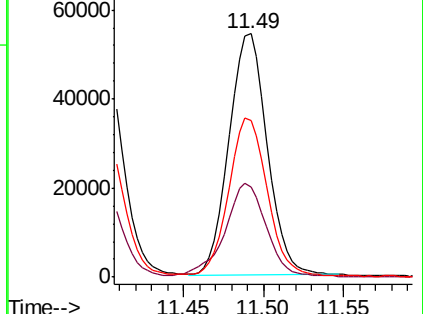
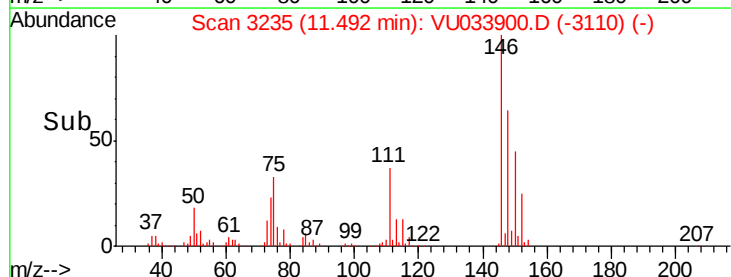
148 64.3 43.5 80.9

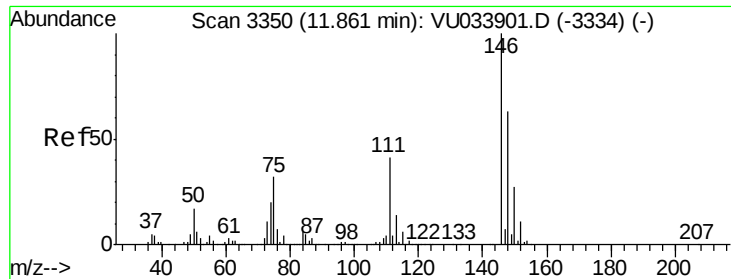


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V





#65

1,2-Dichlorobenzene

Concen: 10.110 ug/L

RT: 11.86 min Scan# 3350

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

VSTD01036

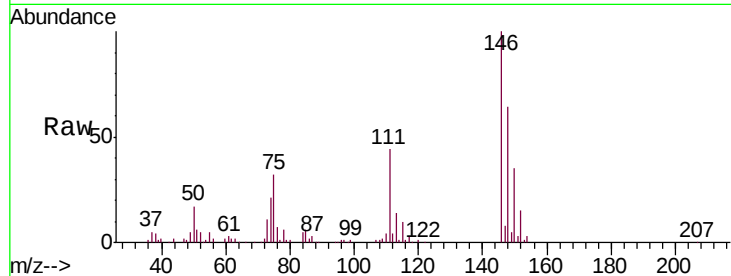
Tgt Ion:146 Resp: 86502

Ion Ratio Lower Upper

146 100

111 43.5 33.1 49.7

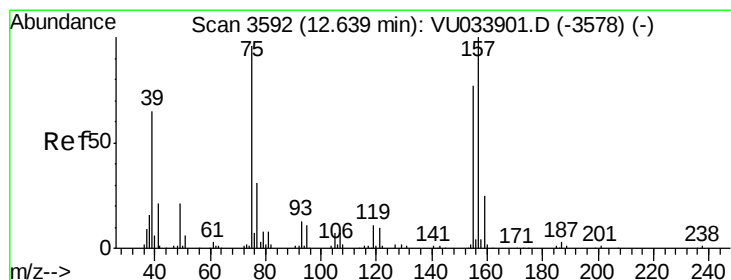
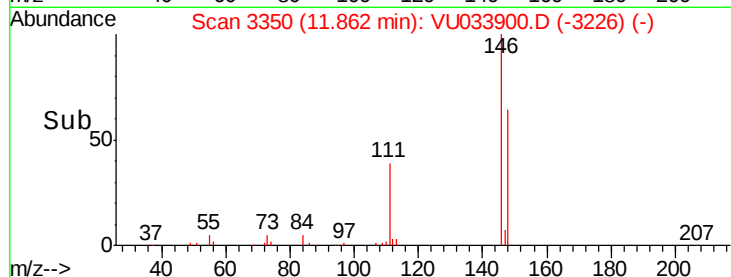
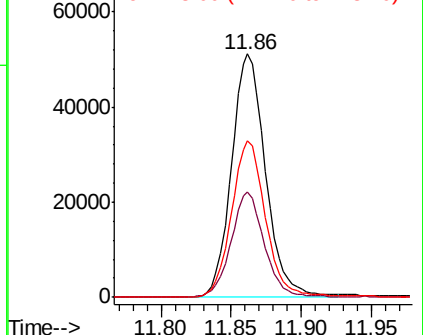
148 64.4 50.8 76.2



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: 10.629 ug/L

RT: 12.64 min Scan# 3593

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

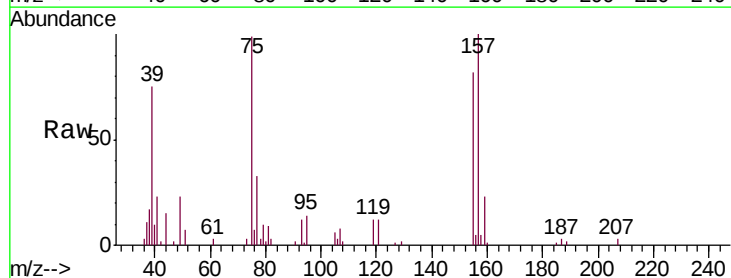
Tgt Ion: 75 Resp: 15531

Ion Ratio Lower Upper

75 100

155 82.7 64.3 96.5

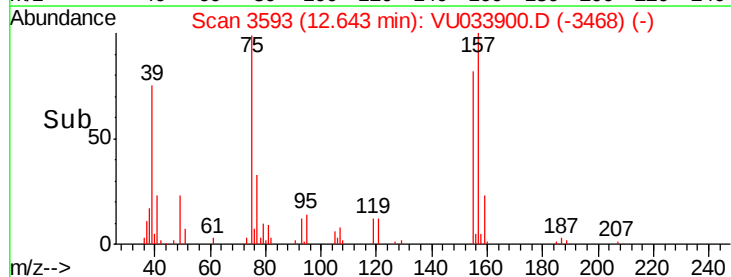
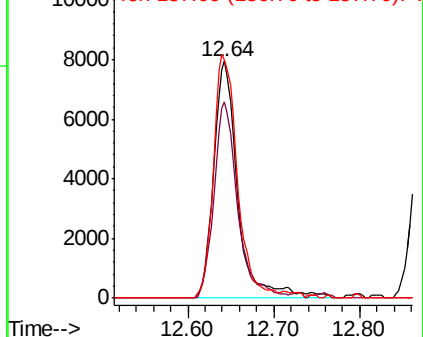
157 100.9 83.4 125.2

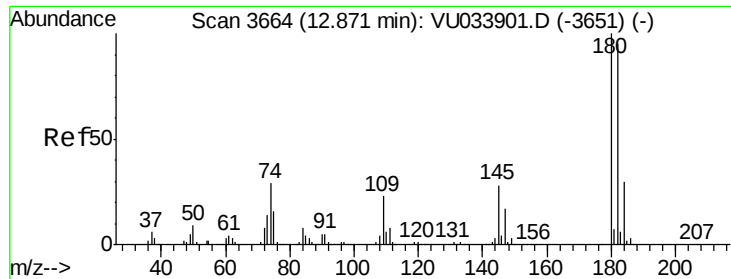


Abundance Ion 75.00 (74.70 to 75.70): VU0

Ion 155.00 (154.70 to 155.70): V

Ion 157.00 (156.70 to 157.70): V

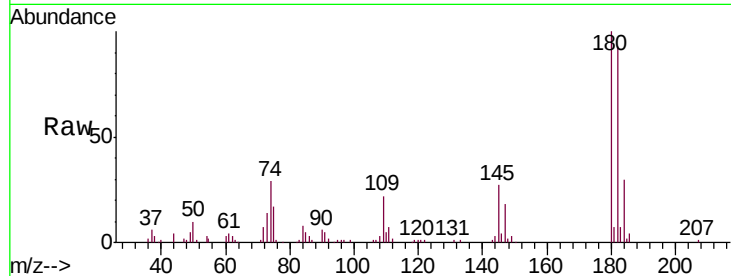




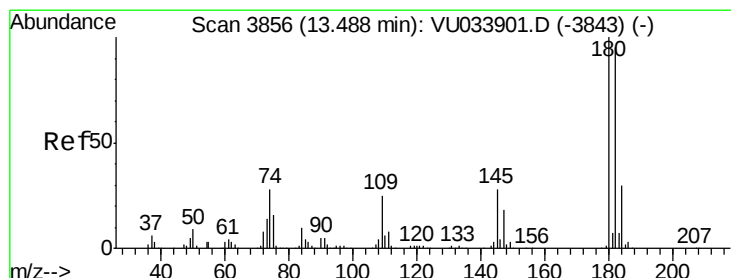
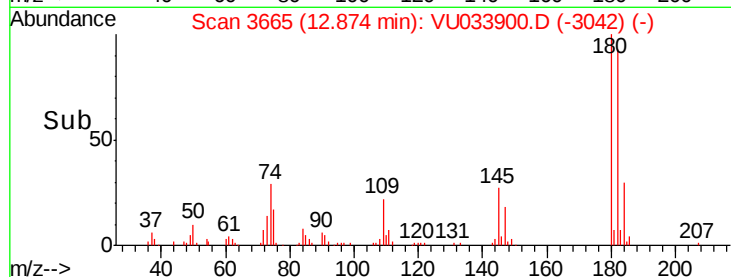
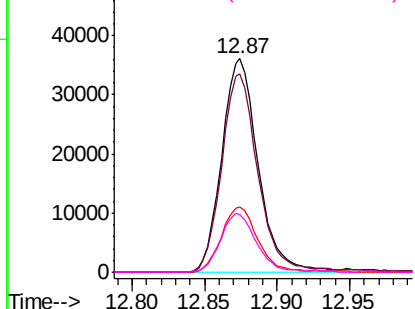
#67
 1,3,5-Trichlorobenzene
 Concen: 9.520 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. 0.00 min
 Lab File: VU033900.D
 Acq: 22 Aug 2019 15:13

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD01036

Tgt Ion:180 Resp: 62626
 Ion Ratio Lower Upper
 180 100
 182 92.4 76.4 114.6
 184 30.3 24.1 36.1
 145 27.5 22.4 33.6

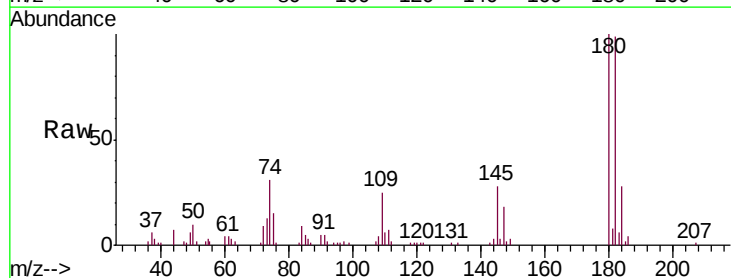


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

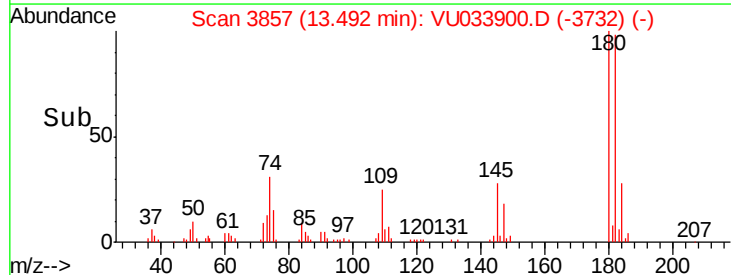
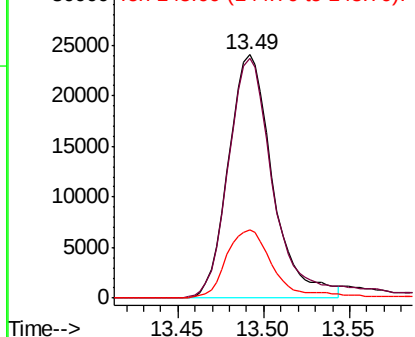


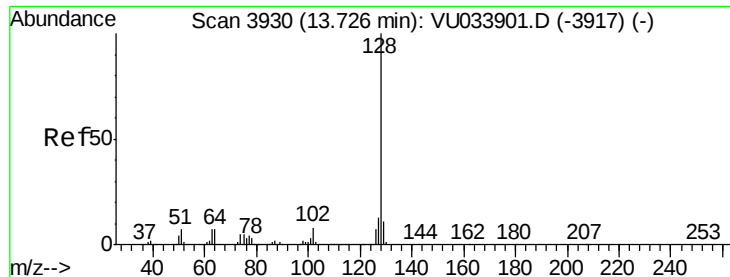
#68
 1,2,4-trichlorobenzene
 Concen: 7.964 ug/L
 RT: 13.49 min Scan# 3857
 Delta R.T. 0.00 min
 Lab File: VU033900.D
 Acq: 22 Aug 2019 15:13

Tgt Ion:180 Resp: 43031
 Ion Ratio Lower Upper
 180 100
 182 98.0 76.8 115.2
 145 28.3 22.8 34.2



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: 7.272 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. 0.00 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

Instrument :

MSVOA_U

ClientSampleId :

VSTD01036

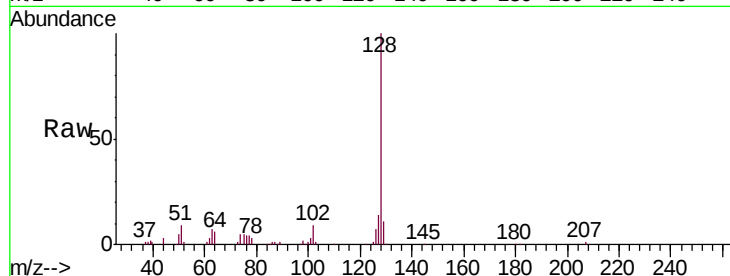
Tgt Ion:128 Resp: 110350

Ion Ratio Lower Upper

128 100

127 13.2 10.1 15.1

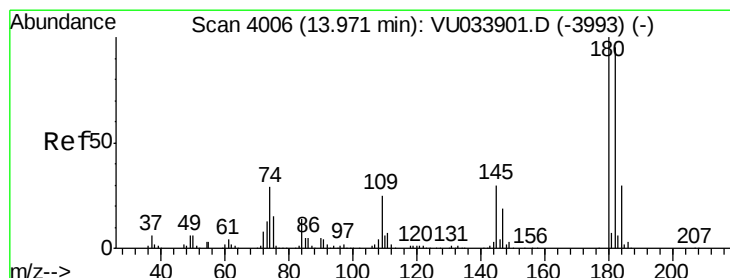
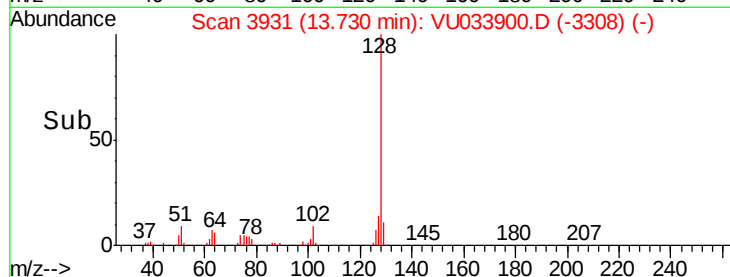
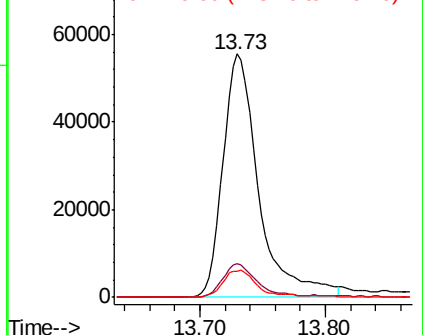
129 10.8 8.3 12.5



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: 8.828 ug/L

RT: 13.98 min Scan# 4008

Delta R.T. 0.01 min

Lab File: VU033900.D

Acq: 22 Aug 2019 15:13

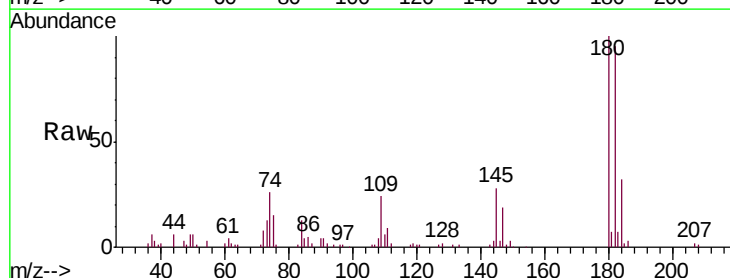
Tgt Ion:180 Resp: 49445

Ion Ratio Lower Upper

180 100

182 96.3 76.7 115.1

145 29.8 23.9 35.9



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

