

Data File : VU033815.D
Acq On : 15 Aug 2019 17:00
Operator : JC/SP
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

Quant Time: Aug 16 02:30:24 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM081619WMA.M
Quant Title : VOC Analysis
QLast Update : Fri Aug 16 02:25:52 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.86	114	427648	50.00	ug/L	0.00
28) Chlorobenzene-d5	9.07	117	417675	50.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.47	152	224535	50.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.39	65	186937	48.59	ug/L	0.00
Spiked Amount	50.000	Range	60 - 135	Recovery	=	97.18%
7) Chloroethane-d5	1.67	69	150957	41.95	ug/L	0.00
Spiked Amount	50.000	Range	70 - 130	Recovery	=	83.90%
11) 1,1-Dichloroethene-d2	2.26	63	310548	48.30	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	96.60%
21) 2-Butanone-d5	4.15	46	213225	105.67	ug/L	0.00
Spiked Amount	100.000	Range	40 - 130	Recovery	=	105.67%
24) Chloroform-d	4.62	84	303841	49.06	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	98.12%
26) 1,2-Dichloroethane-d4	5.29	65	189532	48.93	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	97.86%
32) Benzene-d6	5.31	84	607580	52.21	ug/L	0.00
Spiked Amount	50.000	Range	70 - 125	Recovery	=	104.42%
36) 1,2-Dichloropropane-d6	6.31	67	193866	51.11	ug/L	0.00
Spiked Amount	50.000	Range	70 - 120	Recovery	=	102.22%
41) Toluene-d8	7.55	98	576084	53.27	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	106.54%
43) trans-1,3-Dichloropropene-	7.83	79	95376	53.92	ug/L	0.00
Spiked Amount	50.000	Range	60 - 125	Recovery	=	107.84%
47) 2-Hexanone-d5	8.29	63	156416	111.96	ug/L	0.00
Spiked Amount	100.000	Range	45 - 130	Recovery	=	111.96%
57) 1,1,2,2-Tetrachloroethane-	10.41	84	272018	51.88	ug/L	0.00
Spiked Amount	50.000	Range	65 - 120	Recovery	=	103.76%
64) 1,2-Dichlorobenzene-d4	11.84	152	232693	52.00	ug/L	0.00
Spiked Amount	50.000	Range	80 - 120	Recovery	=	104.00%

Target Compounds

					Qvalue
2) Dichlorodifluoromethane	1.20	85	199478	47.576	ug/L 99
3) Chloromethane	1.32	50	202858	47.042	ug/L 99
5) Vinyl chloride	1.39	62	222520	46.327	ug/L 99
6) Bromomethane	1.61	94	144419	39.768	ug/L 98
8) Chloroethane	1.69	64	137153	41.219	ug/L 94
9) Trichlorofluoromethane	1.87	101	290041	45.533	ug/L 99
10) 1,1,2-Trichloro-1,2,2-trif	2.27	101	144440	47.368	ug/L 99
12) 1,1-Dichloroethene	2.27	96	139156	47.083	ug/L 98
13) Acetone	2.30	43	165473	83.443	ug/L 99
14) Carbon disulfide	2.46	76	444339	47.676	ug/L 100
15) Methyl Acetate	2.59	43	153683	46.994	ug/L 99
16) Methylene chloride	2.68	84	162034	47.311	ug/L 97
17) trans-1,2-Dichloroethene	2.96	96	147772	47.962	ug/L 99
18) Methyl tert-butyl Ether	2.98	73	452744	50.353	ug/L 100
19) 1,1-Dichloroethane	3.42	63	277475	46.801	ug/L 99
20) cis-1,2-Dichloroethene	4.20	96	164303	49.297	ug/L 98
22) 2-Butanone	4.23	43	220089	96.439	ug/L 99

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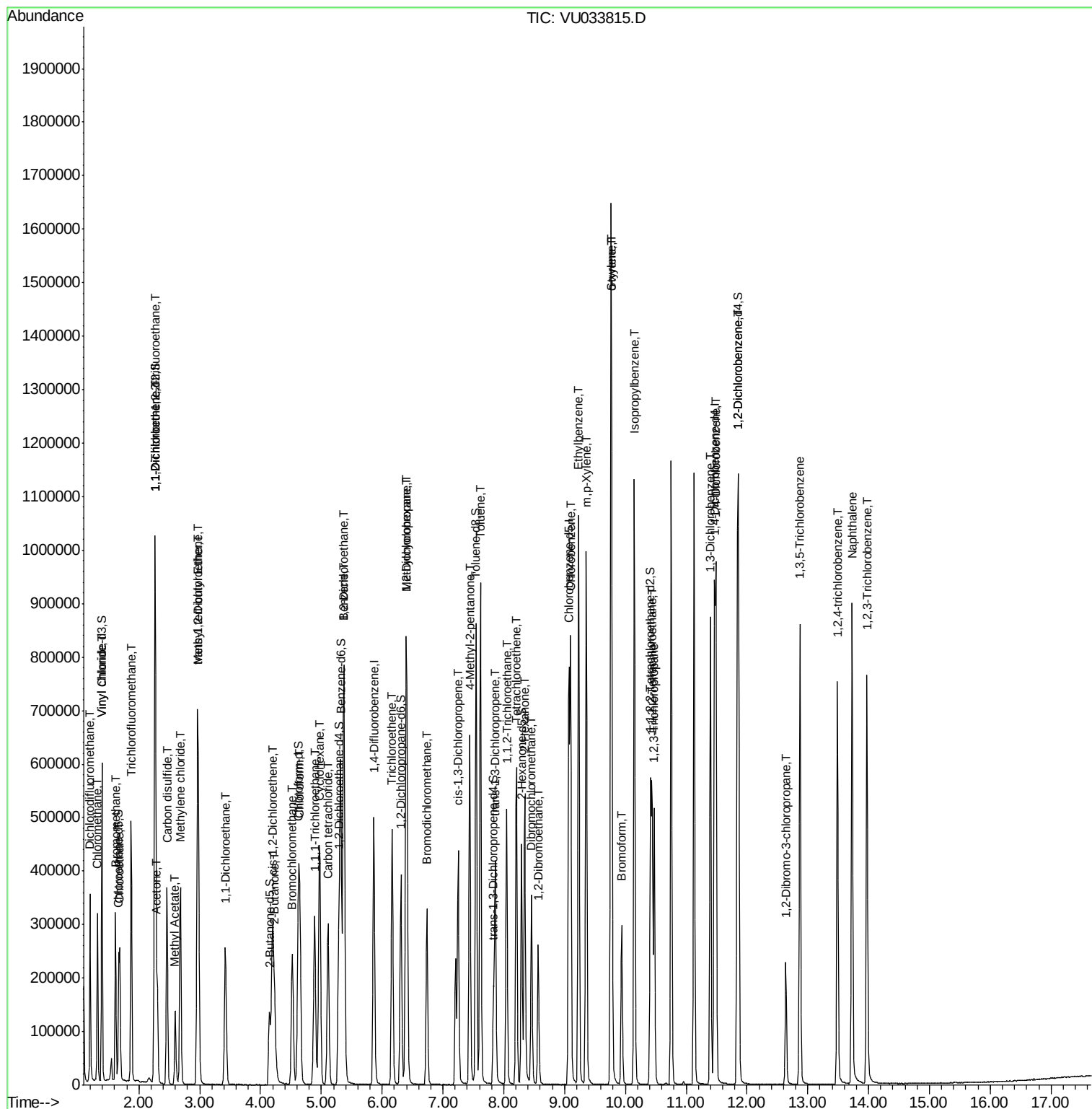
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
23) Bromochloromethane	4.52	128	87147	47.957	ug/L	97
25) Chloroform	4.65	83	286603	46.515	ug/L	98
27) 1,2-Dichloroethane	5.38	62	222222	47.571	ug/L	99
29) Cyclohexane	4.97	56	235992	52.736	ug/L	99
30) 1,1,1-Trichloroethane	4.89	97	244602	48.645	ug/L	99
31) Carbon tetrachloride	5.11	117	219357	47.940	ug/L	100
33) Benzene	5.36	78	632893	50.162	ug/L	100
34) Trichloroethene	6.16	95	163518	48.561	ug/L	99
35) Methylcyclohexane	6.40	83	252069	51.120	ug/L	99
37) 1,2-Dichloropropane	6.41	63	168921	48.892	ug/L	99
38) Bromodichloromethane	6.74	83	217076	48.527	ug/L	99
39) cis-1,3-Dichloropropene	7.25	75	262972	52.224	ug/L	99
40) 4-Methyl-2-pentanone	7.44	43	410884	101.308	ug/L	99
42) Toluene	7.62	91	685826	51.419	ug/L	100
44) trans-1,3-Dichloropropene	7.86	75	237051	51.225	ug/L	99
45) 1,1,2-Trichloroethane	8.05	97	155497	47.951	ug/L	98
46) Tetrachloroethene	8.21	164	132962	49.253	ug/L	99
48) 2-Hexanone	8.34	43	326795	102.758	ug/L	99
49) Dibromochloromethane	8.46	129	181391	49.537	ug/L	100
50) 1,2-Dibromoethane	8.57	107	173248	50.176	ug/L	99
51) Chlorobenzene	9.10	112	435985	49.489	ug/L	99
52) Ethylbenzene	9.23	91	731699	51.777	ug/L	100
53) m,p-Xylene	9.36	106	282940	53.488	ug/L	100
54) o-xylene	9.76	106	275253	53.701	ug/L	99
55) Styrene	9.77	104	477409	54.360	ug/L	99
56) Isopropylbenzene	10.15	105	719506	53.687	ug/L	100
58) 1,1,2,2-Tetrachloroethane	10.44	83	262188	49.953	ug/L	99
59) 1,2,3-Trichloropropane	10.48	75	210277	50.247	ug/L	100
61) Bromoform	9.94	173	137254	49.082	ug/L	99
62) 1,3-Dichlorobenzene	11.40	146	359802	51.065	ug/L	99
63) 1,4-Dichlorobenzene	11.49	146	366720	50.275	ug/L	99
65) 1,2-Dichlorobenzene	11.86	146	360068	50.979	ug/L	99
66) 1,2-Dibromo-3-chloropropan	12.64	75	59196	50.406	ug/L	99
67) 1,3,5-Trichlorobenzene	12.87	180	275374	50.667	ug/L	99
68) 1,2,4-trichlorobenzene	13.49	180	245756	55.222	ug/L	98
69) Naphthalene	13.73	128	717817	58.439	ug/L	100
70) 1,2,3-Trichlorobenzene	13.97	180	248882	53.883	ug/L	98

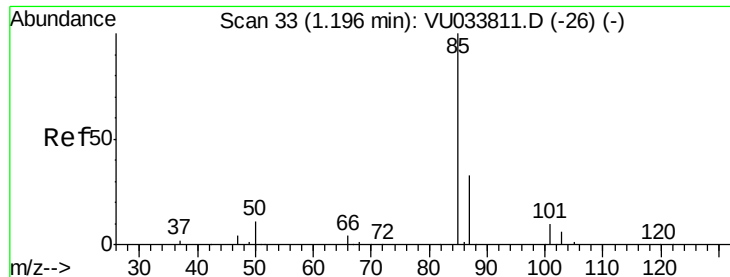
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#2

Dichlorodifluoromethane

Concen: 47.576 ug/L

RT: 1.20 min Scan# 33

Delta R.T. -0.00 min

Lab File: VU033815.D

Acq: 15 Aug 2019 17:00

Instrument :

MSVOA_U

ClientSampleId :

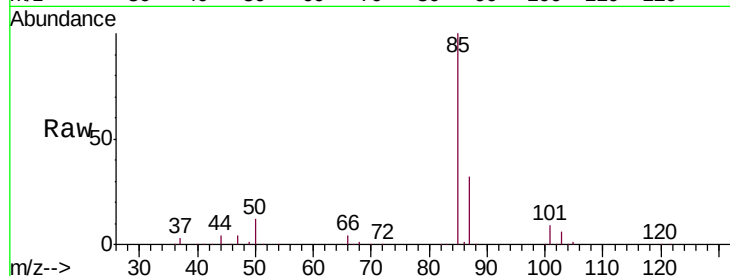
VSTD05043

Tgt Ion: 85 Resp: 199478

Ion Ratio Lower Upper

85 100

87 32.0 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VU033815.D (-26) (-)

Ion 87.00 (86.70 to 87.70): VU033815.D (-26) (-)

1.20

200000

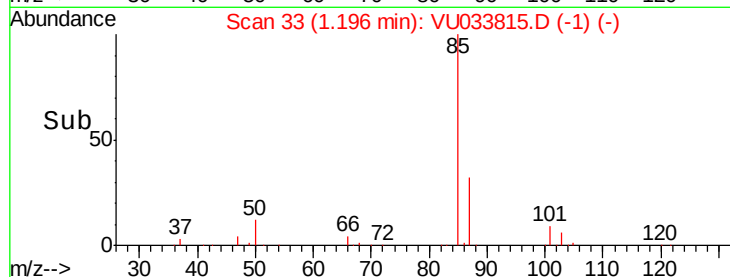
150000

100000

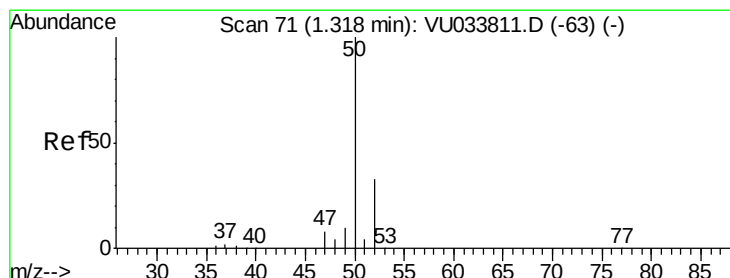
50000

0

Time-->



Time-->



#3

Chloromethane

Concen: 47.042 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU033815.D

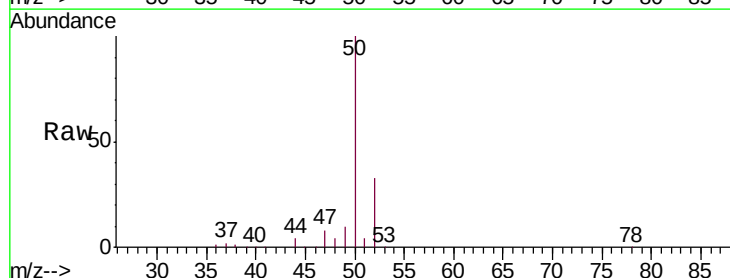
Acq: 15 Aug 2019 17:00

Tgt Ion: 50 Resp: 202858

Ion Ratio Lower Upper

50 100

52 32.8 23.3 43.3



Abundance Ion 50.00 (49.70 to 50.70): VU033815.D (-63) (-)

Ion 52.00 (51.70 to 52.70): VU033815.D (-63) (-)

1.32

200000

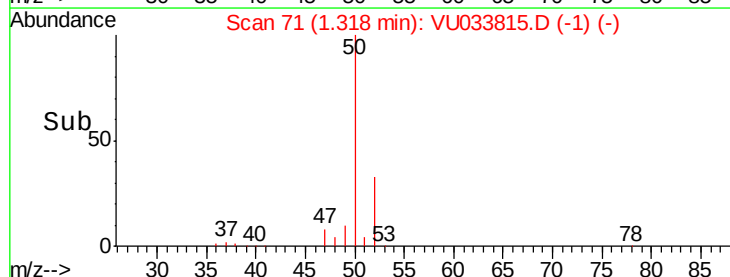
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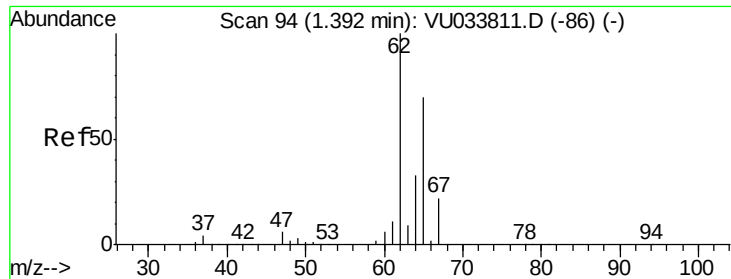
50000

0

Time-->



Time-->



#5

Vinyl chloride

Concen: 46.327 ug/L

RT: 1.39 min Scan# 94

Delta R.T. -0.00 min

Lab File: VU033815.D

Acq: 15 Aug 2019 17:00

Instrument :

MSVOA_U

ClientSampleId :

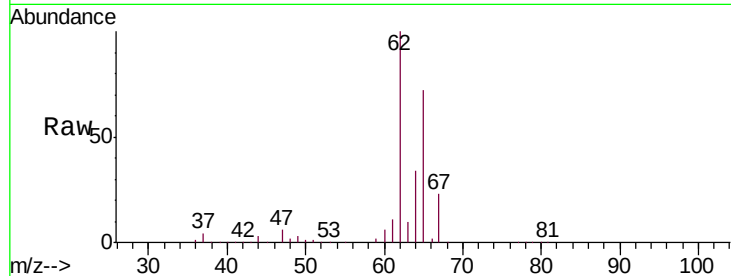
VSTD05043

Tgt Ion: 62 Resp: 222520

Ion Ratio Lower Upper

62 100

64 34.1 23.3 43.3



Abundance Ion 62.00 (61.70 to 62.70): VU033815.D (-86) (-)

Ion 64.00 (63.70 to 64.70): VU033815.D (-86) (-)

1.39

200000

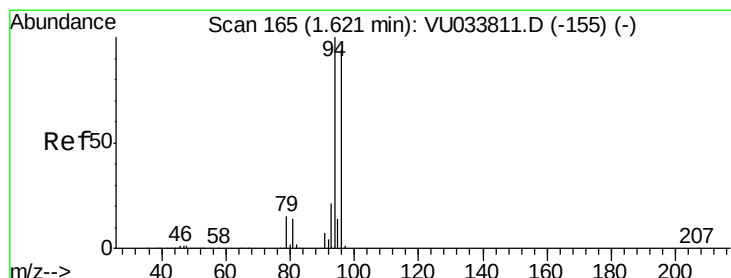
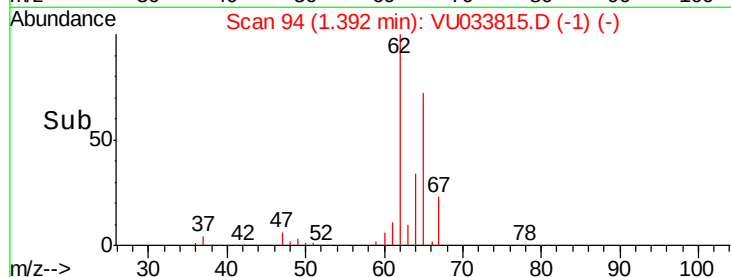
150000

100000

50000

0

Time-->



#6

Bromomethane

Concen: 39.768 ug/L

RT: 1.61 min Scan# 163

Delta R.T. -0.01 min

Lab File: VU033815.D

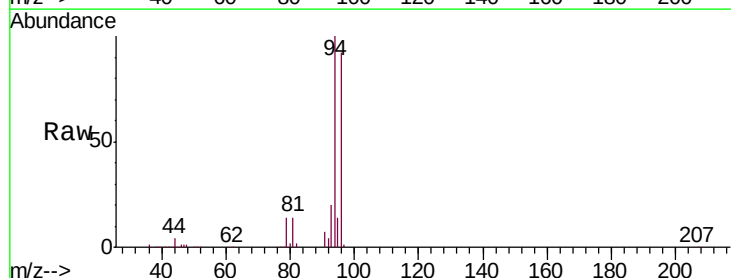
Acq: 15 Aug 2019 17:00

Tgt Ion: 94 Resp: 144419

Ion Ratio Lower Upper

94 100

96 91.7 65.9 122.3



Abundance Ion 94.00 (93.70 to 94.70): VU033815.D (-155) (-)

Ion 96.00 (95.70 to 96.70): VU033815.D (-155) (-)

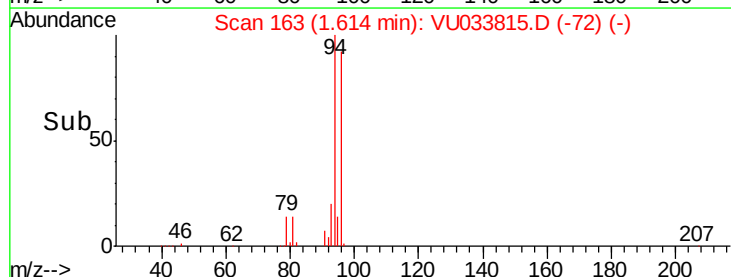
1.61

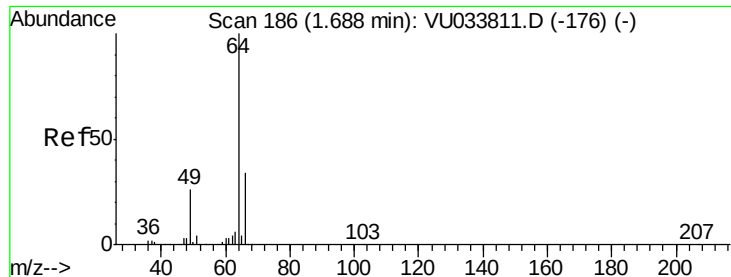
100000

50000

0

Time-->

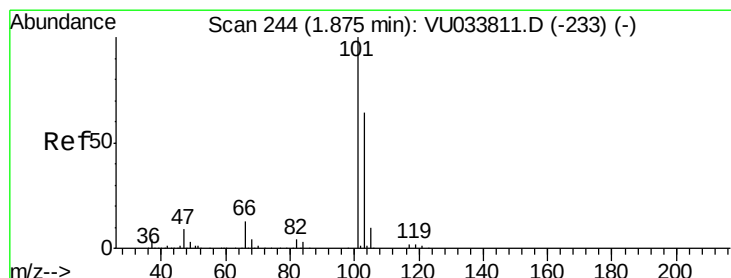
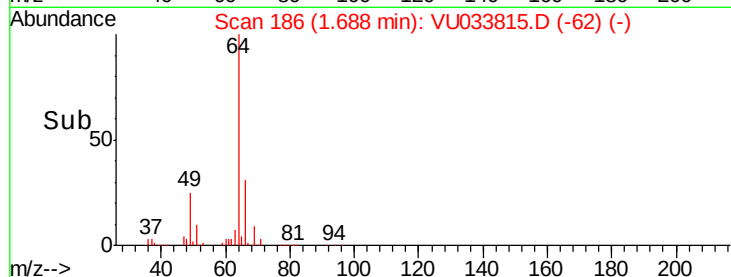
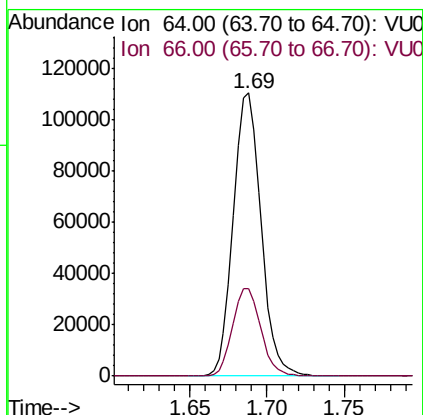
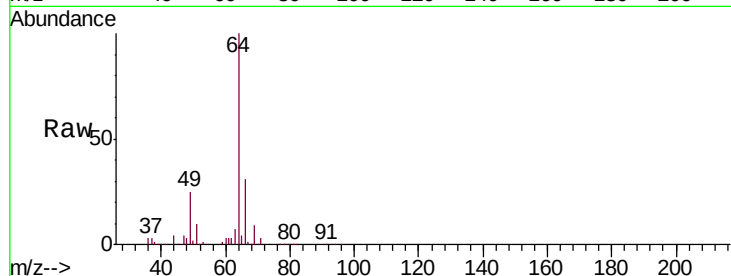




#8
Chloroethane
Concen: 41.219 ug/L
RT: 1.69 min Scan# 186
Delta R.T. -0.00 min
Lab File: VU033815.D
Acq: 15 Aug 2019 17:00

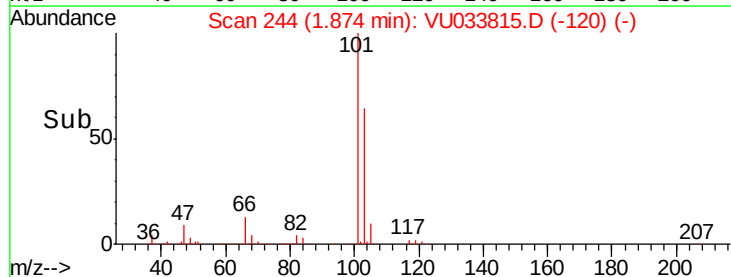
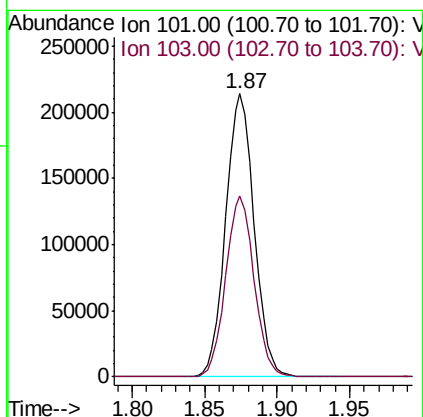
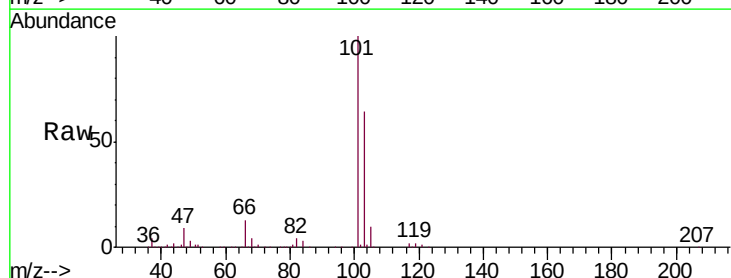
Instrument :
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ClientSampleId :
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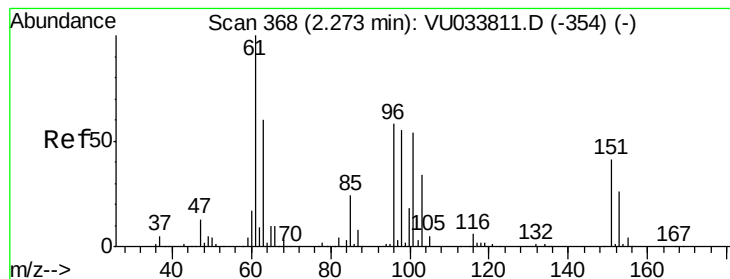
Tgt Ion: 64 Resp: 137153
Ion Ratio Lower Upper
64 100
66 30.9 23.9 44.3



#9
Trichlorofluoromethane
Concen: 45.533 ug/L
RT: 1.87 min Scan# 244
Delta R.T. -0.00 min
Lab File: VU033815.D
Acq: 15 Aug 2019 17:00

Tgt Ion: 101 Resp: 290041
Ion Ratio Lower Upper
101 100
103 63.9 51.9 77.9





#10

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

Concen: 47.368 ug/L

RT: 2.27 min Scan# 368

Delta R.T. -0.00 min

Lab File: VU033815.D

Acq: 15 Aug 2019 17:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

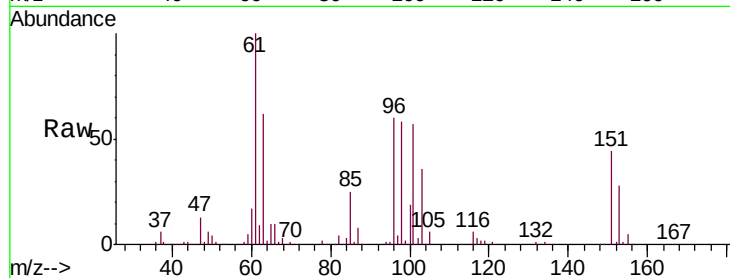
Tgt Ion: 101 Resp: 144440

Ion Ratio Lower Upper

101 100

85 42.6 35.2 52.8

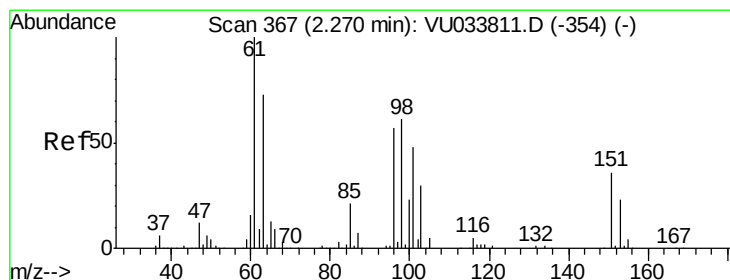
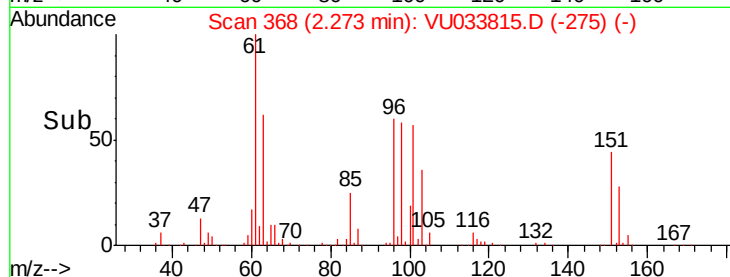
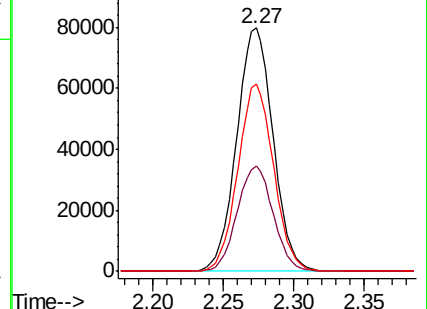
151 75.5 60.4 90.6



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: 47.083 ug/L

RT: 2.27 min Scan# 367

Delta R.T. -0.00 min

Lab File: VU033815.D

Acq: 15 Aug 2019 17:00

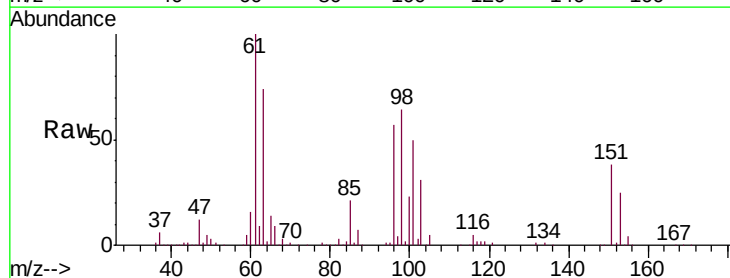
Tgt Ion: 96 Resp: 139156

Ion Ratio Lower Upper

96 100

61 174.2 123.7 229.7

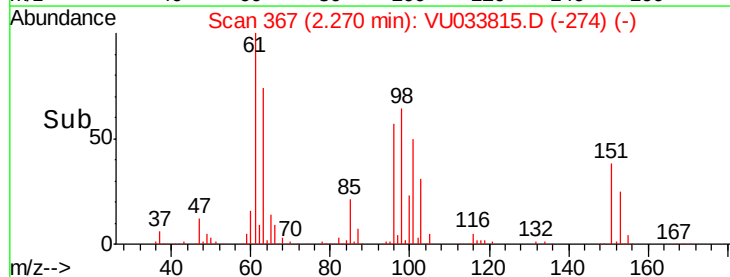
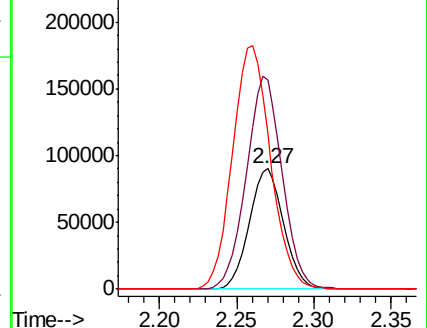
63 129.0 91.2 169.4

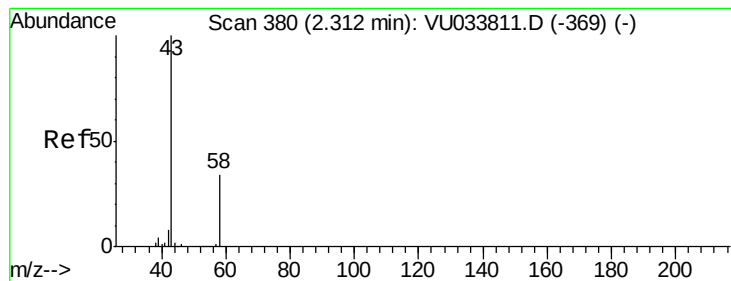


Abundance Ion 96.00 (95.70 to 96.70): VU0

Ion 61.00 (60.70 to 61.70): VU0

Ion 63.00 (62.70 to 63.70): VU0





#13

Acetone

Concen: 83.443 ug/L

RT: 2.30 min Scan# 377

Delta R.T. -0.01 min

Lab File: VU033815.D

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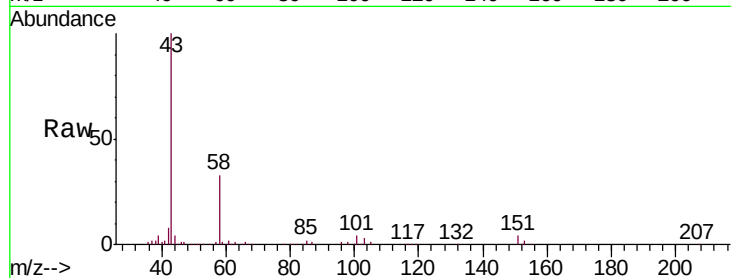
VSTD05043

Tgt Ion: 43 Resp: 165473

Ion Ratio Lower Upper

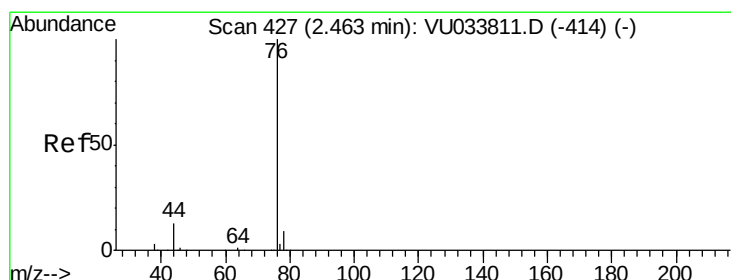
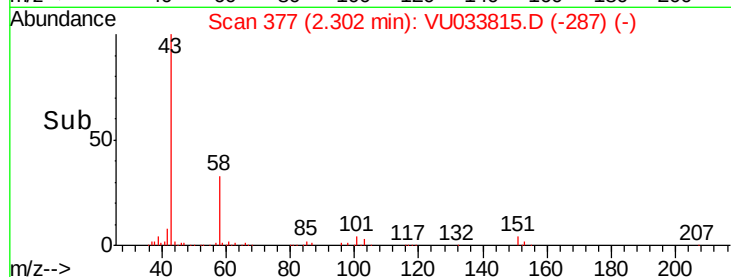
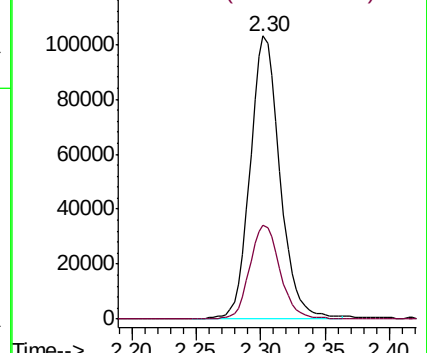
43 100

58 33.9 0.0 69.0



Abundance Ion 43.00 (42.70 to 43.70): VU033815.D (-377) (-)

Ion 58.00 (57.70 to 58.70): VU033815.D (-377) (-)



#14

Carbon disulfide

Concen: 47.676 ug/L

RT: 2.46 min Scan# 427

Delta R.T. -0.00 min

Lab File: VU033815.D

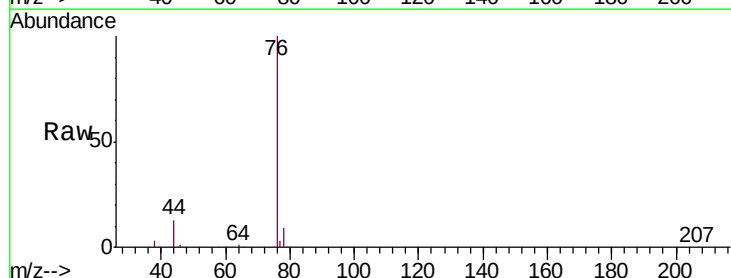
Acq: 15 Aug 2019 17:00

Tgt Ion: 76 Resp: 444339

Ion Ratio Lower Upper

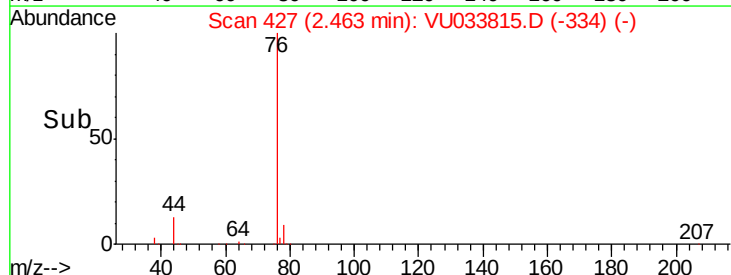
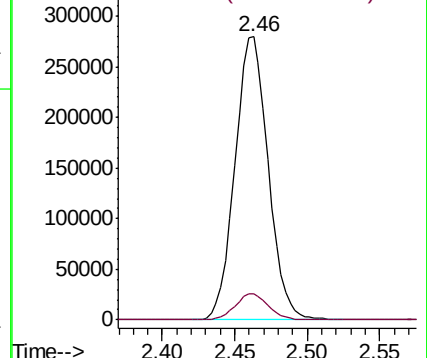
76 100

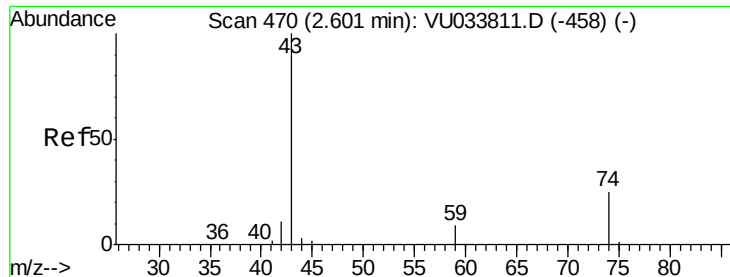
78 9.2 7.4 11.2



Abundance Ion 76.00 (75.70 to 76.70): VU033815.D (-427) (-)

Ion 78.00 (77.70 to 78.70): VU033815.D (-427) (-)

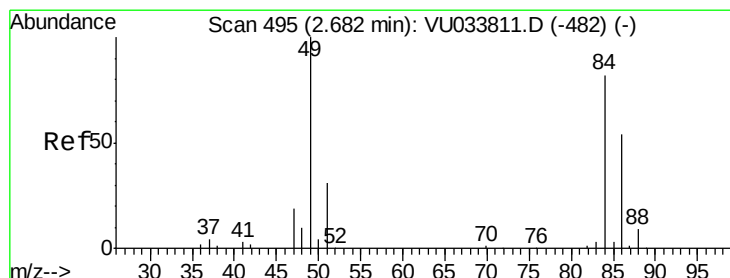
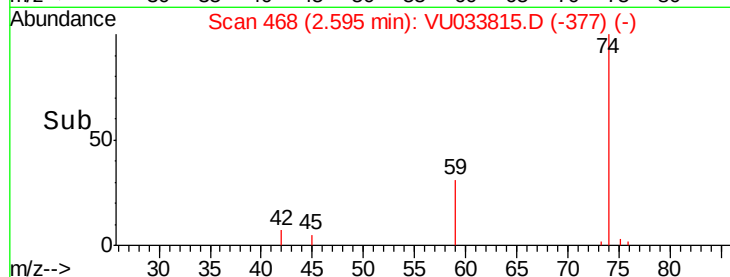
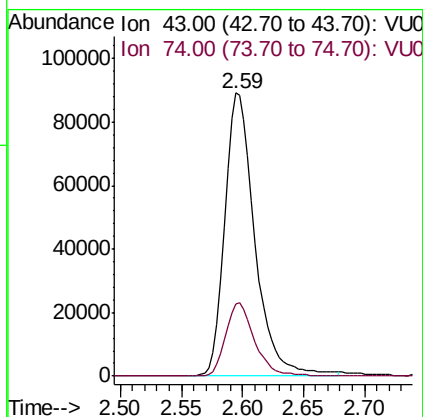
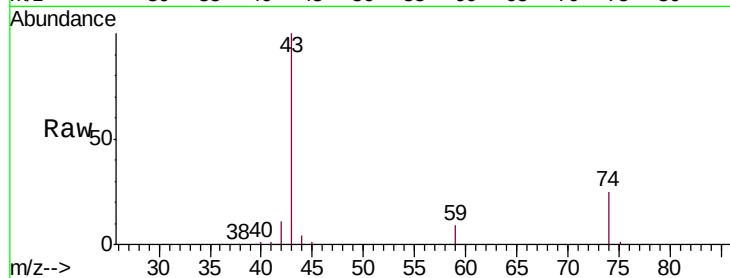




#15
Methyl Acetate
Concen: 46.994 ug/L
RT: 2.59 min Scan# 468
Delta R.T. -0.01 min
Lab File: VU033815.D
Acq: 15 Aug 2019 17:00

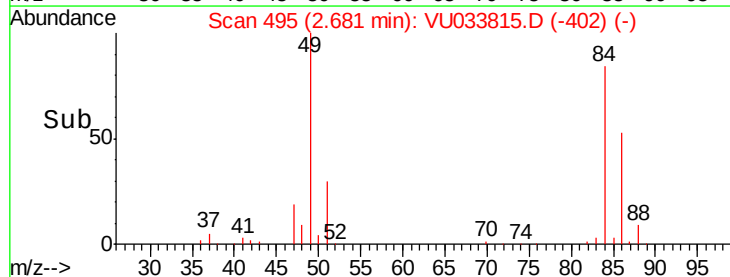
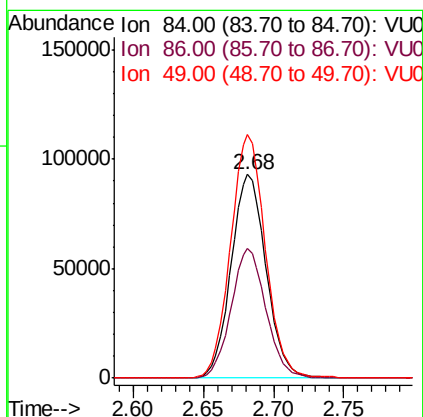
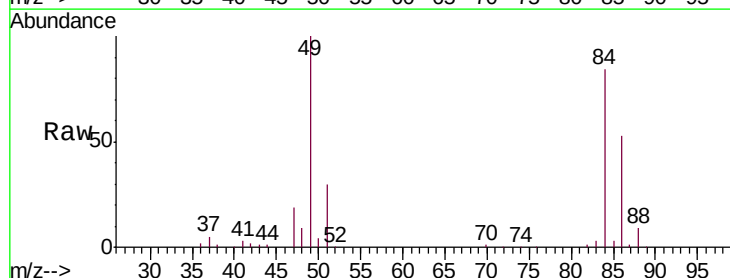
Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

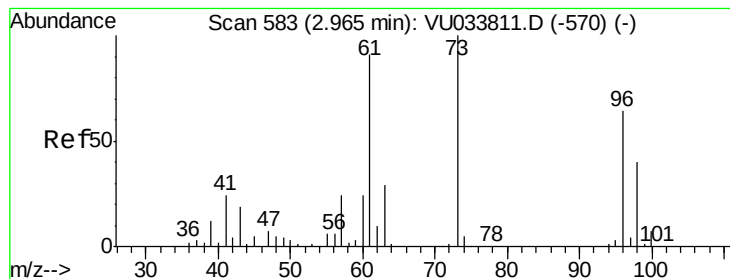
Tgt Ion: 43 Resp: 153683
Ion Ratio Lower Upper
43 100
74 25.1 19.7 29.5



#16
Methylene chloride
Concen: 47.311 ug/L
RT: 2.68 min Scan# 495
Delta R.T. -0.00 min
Lab File: VU033815.D
Acq: 15 Aug 2019 17:00

Tgt Ion: 84 Resp: 162034
Ion Ratio Lower Upper
84 100
86 63.5 46.1 85.5
49 119.5 85.6 159.0





#17

trans-1,2-Dichloroethene

Concen: 47.962 ug/L

RT: 2.96 min Scan# 582

Delta R.T. -0.00 min

Lab File: VU033815.D

Acq: 15 Aug 2019 17:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

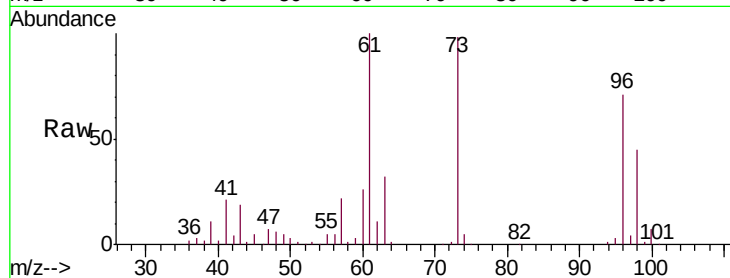
Tgt Ion: 96 Resp: 147772

Ion Ratio Lower Upper

96 100

61 141.1 98.6 183.2

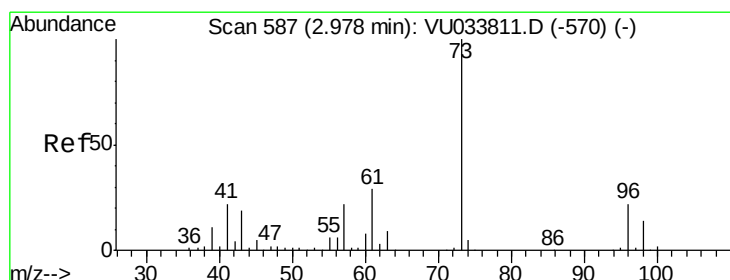
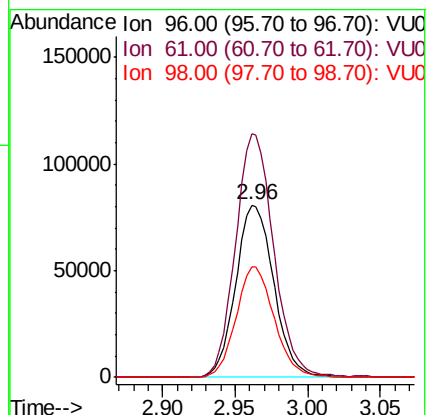
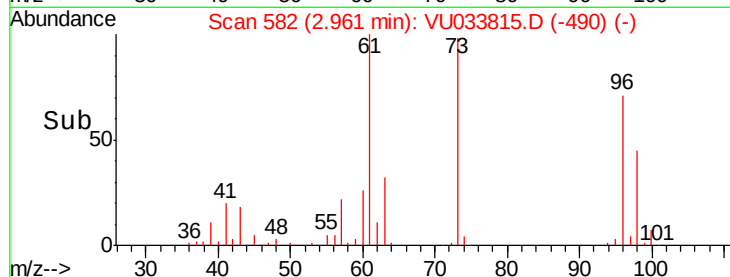
98 63.9 43.8 81.3



Abundance Ion 96.00 (95.70 to 96.70): VU033815.D (-490) (-)

Ion 61.00 (60.70 to 61.70): VU033815.D (-490) (-)

Ion 98.00 (97.70 to 98.70): VU033815.D (-490) (-)



#18

Methyl tert-butyl Ether

Concen: 50.353 ug/L

RT: 2.98 min Scan# 587

Delta R.T. -0.00 min

Lab File: VU033815.D

Acq: 15 Aug 2019 17:00

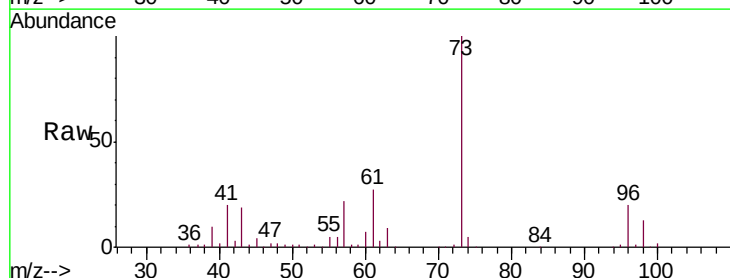
Tgt Ion: 73 Resp: 452744

Ion Ratio Lower Upper

73 100

43 19.0 15.2 22.8

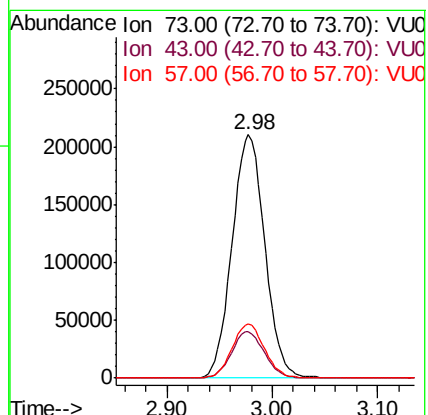
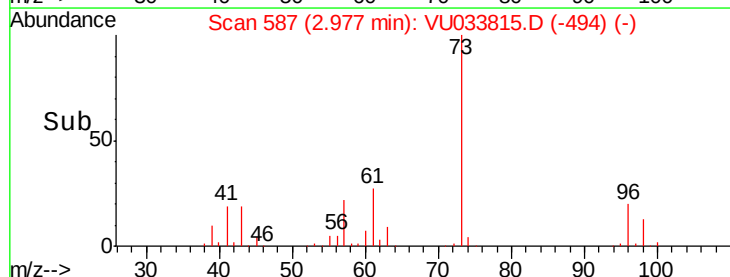
57 22.0 17.8 26.8

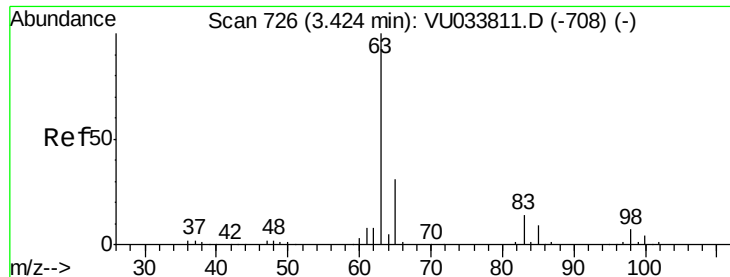


Abundance Ion 73.00 (72.70 to 73.70): VU033815.D (-494) (-)

Ion 43.00 (42.70 to 43.70): VU033815.D (-494) (-)

Ion 57.00 (56.70 to 57.70): VU033815.D (-494) (-)

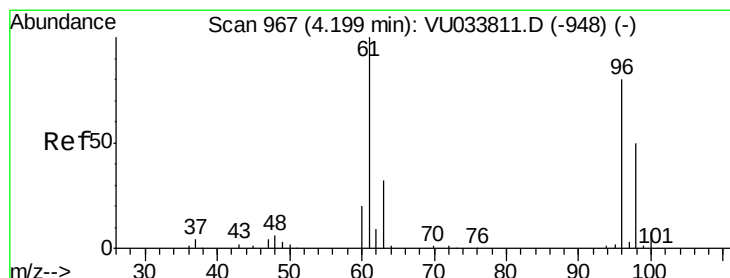
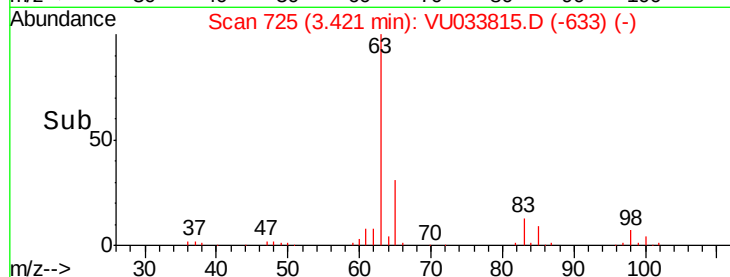
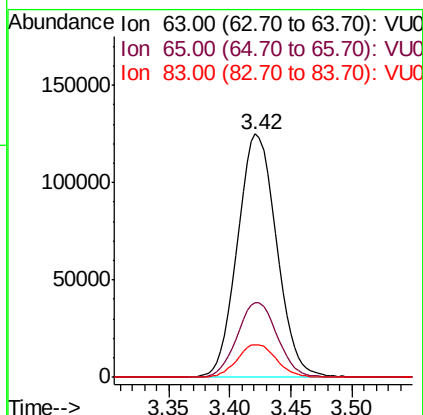
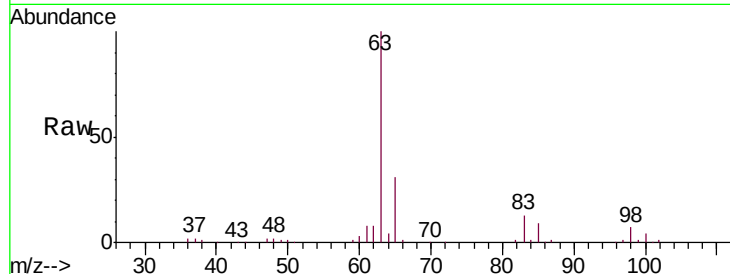




#19
 1,1-Dichloroethane
 Concen: 46.801 ug/L
 RT: 3.42 min Scan# 725
 Delta R.T. -0.00 min
 Lab File: VU033815.D
 Acq: 15 Aug 2019 17:00

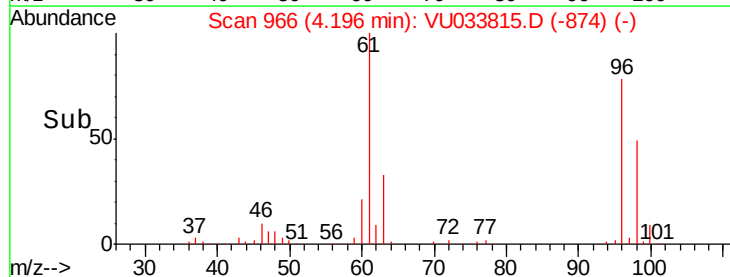
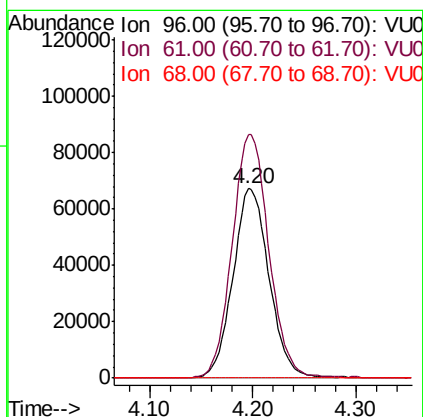
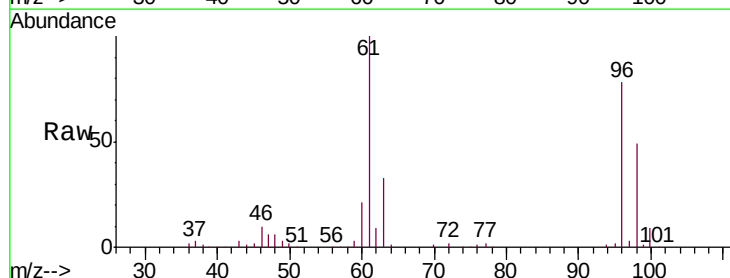
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

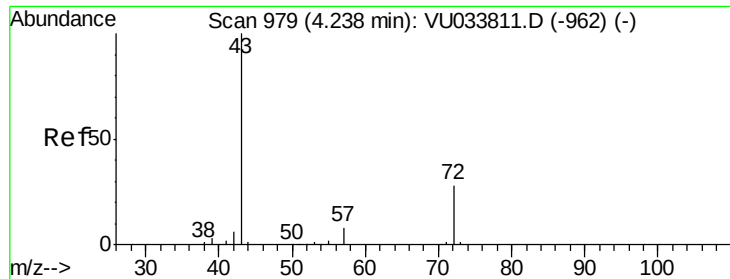
Tgt Ion: 63 Resp: 277475
 Ion Ratio Lower Upper
 63 100
 65 30.6 21.8 40.6
 83 13.4 9.9 18.3



#20
 cis-1,2-Dichloroethene
 Concen: 49.297 ug/L
 RT: 4.20 min Scan# 966
 Delta R.T. -0.00 min
 Lab File: VU033815.D
 Acq: 15 Aug 2019 17:00

Tgt Ion: 96 Resp: 164303
 Ion Ratio Lower Upper
 96 100
 61 128.3 88.2 163.8
 68 0.0 0.0 0.0





#22

2-Butanone

Concen: 96.439 ug/L

RT: 4.23 min Scan# 977

Delta R.T. -0.01 min

Lab File: VU033815.D

Acq: 15 Aug 2019 17:00

Instrument :

MSVOA_U

ClientSampleId :

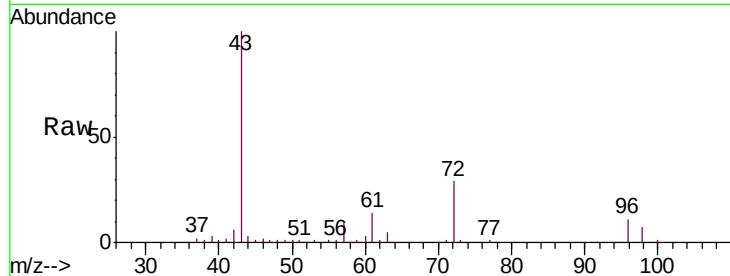
VSTD05043

Tgt Ion: 43 Resp: 220089

Ion Ratio Lower Upper

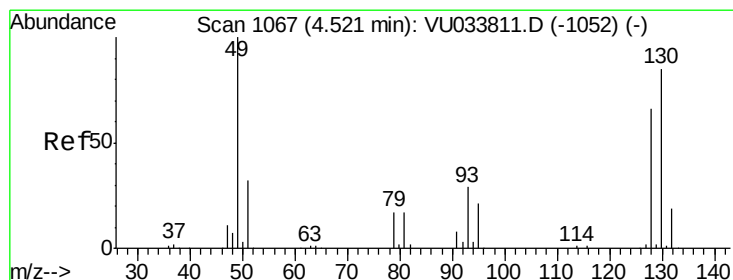
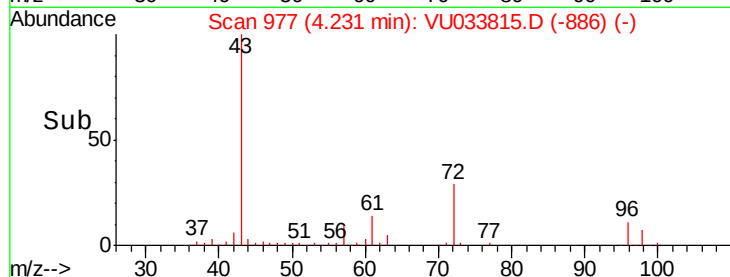
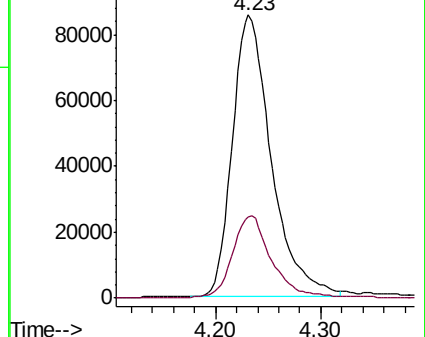
43 100

72 29.2 14.4 43.2



Abundance Ion 43.00 (42.70 to 43.70): VU033815.D (-962) (-)

Ion 72.00 (71.70 to 72.70): VU033815.D (-962) (-)



#23

Bromochloromethane

Concen: 47.957 ug/L

RT: 4.52 min Scan# 1067

Delta R.T. -0.00 min

Lab File: VU033815.D

Acq: 15 Aug 2019 17:00

Tgt Ion: 128 Resp: 87147

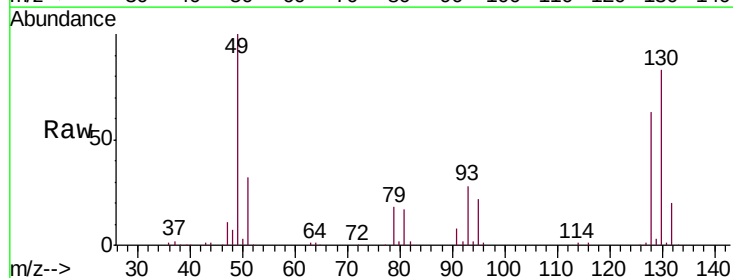
Ion Ratio Lower Upper

128 100

49 158.2 106.7 198.3

130 131.9 90.4 168.0

51 50.2 38.4 57.6

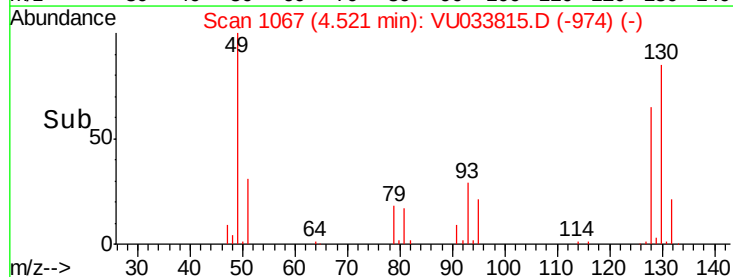
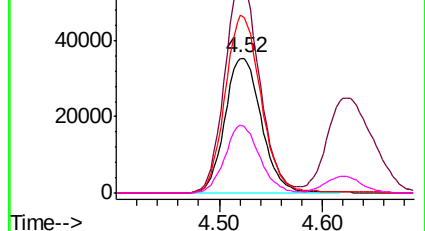


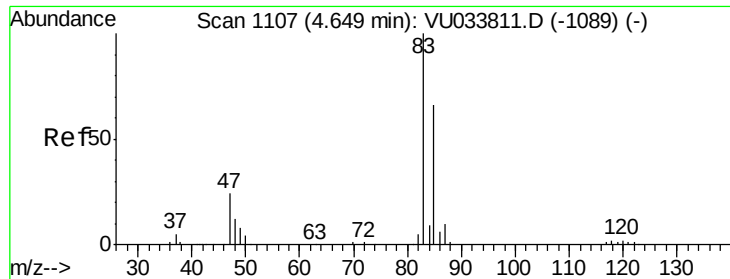
Abundance Ion 128.00 (127.70 to 128.70): VU033815.D (-974) (-)

Ion 49.00 (48.70 to 49.70): VU033815.D (-974) (-)

Ion 130.00 (129.70 to 130.70): VU033815.D (-974) (-)

Ion 51.00 (50.70 to 51.70): VU033815.D (-974) (-)

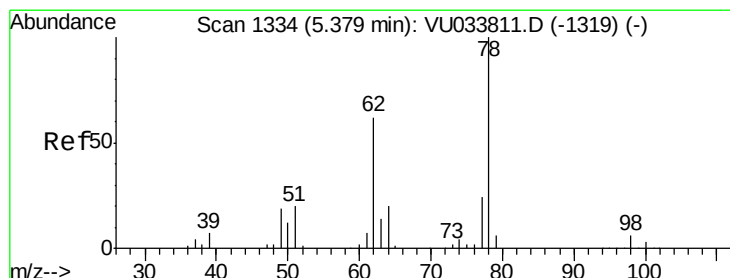
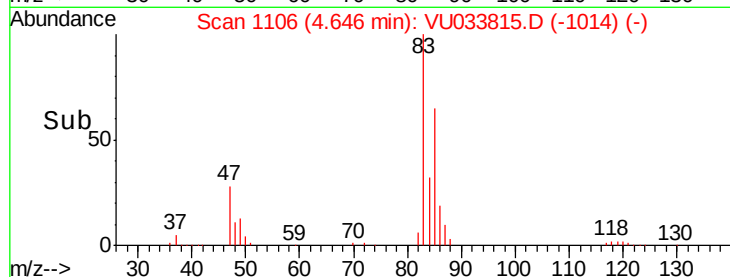
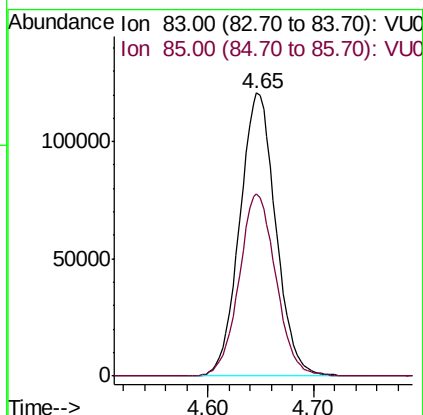
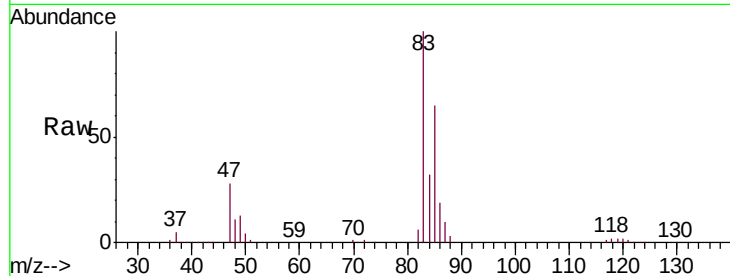




#25
Chloroform
Concen: 46.515 ug/L
RT: 4.65 min Scan# 1106
Delta R.T. -0.00 min
Lab File: VU033815.D
Acq: 15 Aug 2019 17:00

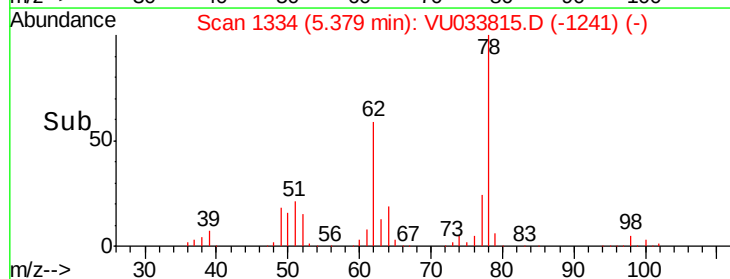
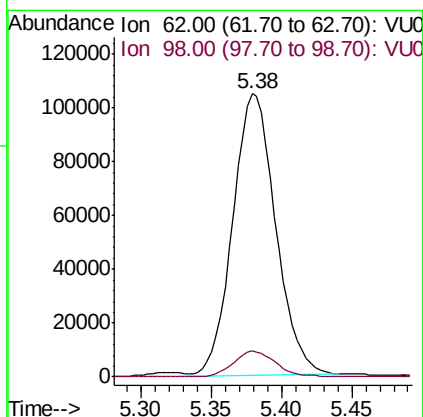
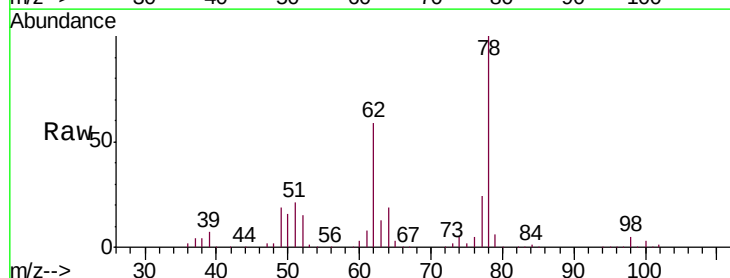
Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

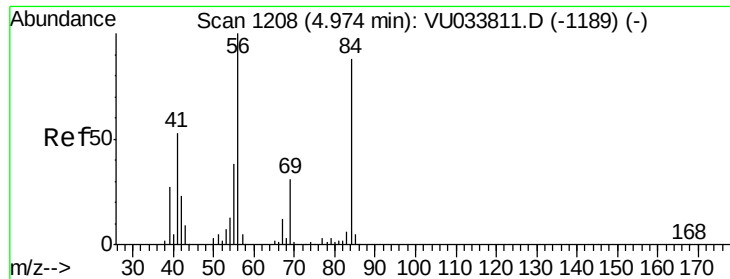
Tgt Ion: 83 Resp: 286603
Ion Ratio Lower Upper
83 100
85 64.6 46.3 86.1



#27
1,2-Dichloroethane
Concen: 47.571 ug/L
RT: 5.38 min Scan# 1334
Delta R.T. -0.00 min
Lab File: VU033815.D
Acq: 15 Aug 2019 17:00

Tgt Ion: 62 Resp: 222222
Ion Ratio Lower Upper
62 100
98 9.1 7.0 10.6

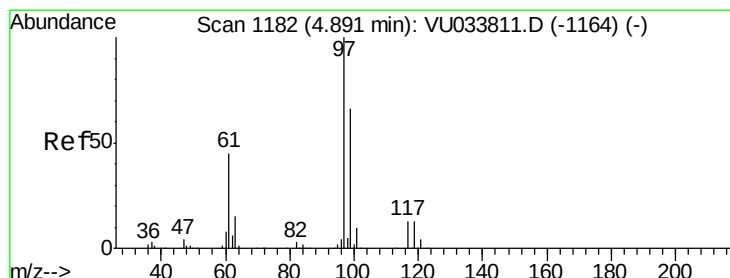
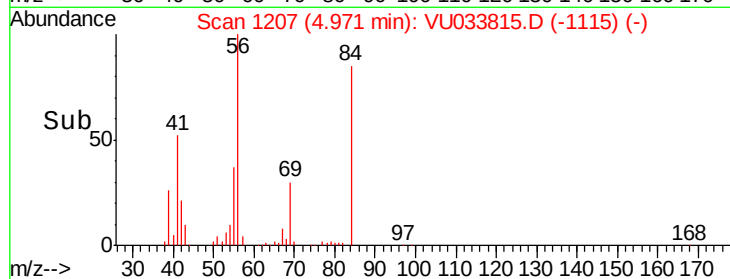
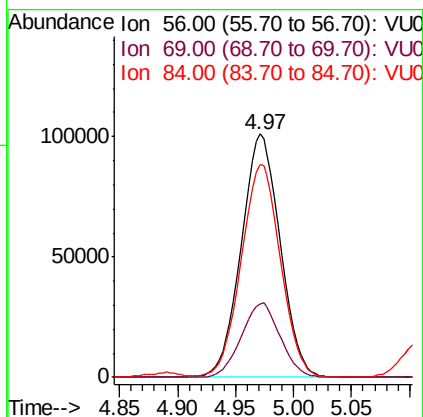
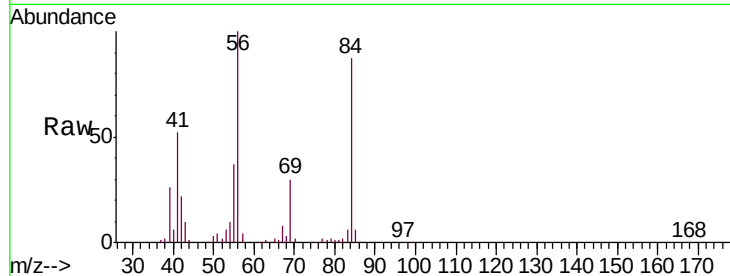




#29
Cyclohexane
Concen: 52.736 ug/L
RT: 4.97 min Scan# 1207
Delta R.T. -0.00 min
Lab File: VU033815.D
Acq: 15 Aug 2019 17:00

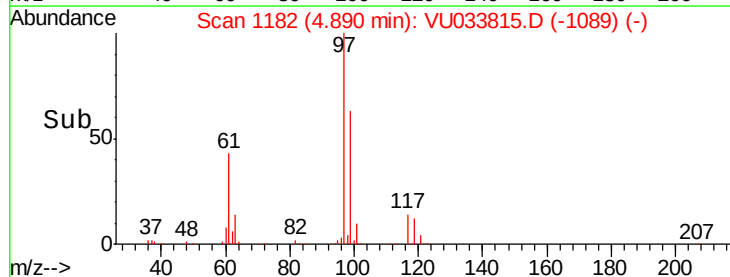
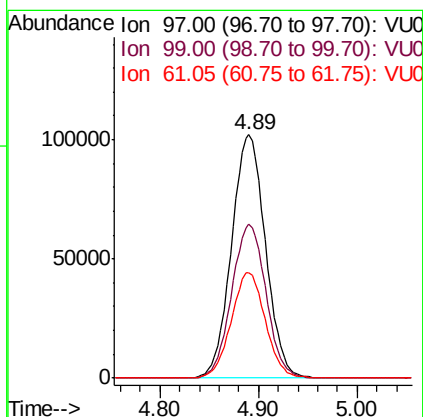
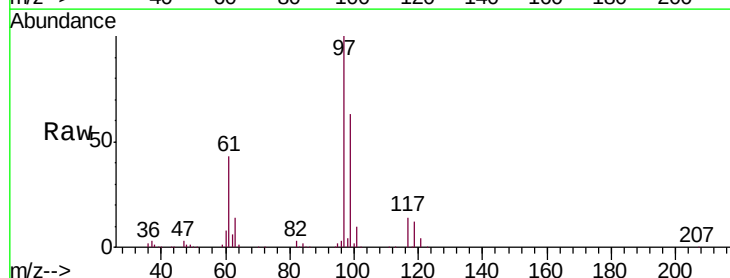
Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

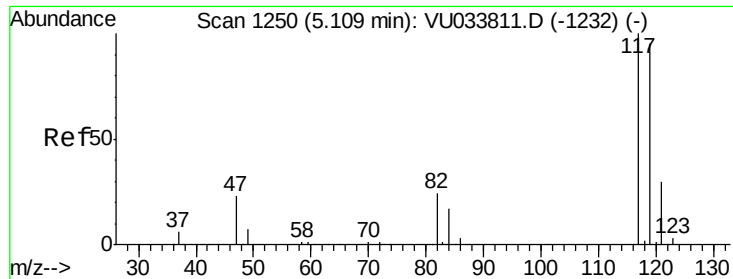
Tgt Ion	Ratio	Lower	Upper
56	100		
69	30.6	24.4	36.6
84	87.7	69.0	103.4



#30
1,1,1-Trichloroethane
Concen: 48.645 ug/L
RT: 4.89 min Scan# 1182
Delta R.T. -0.00 min
Lab File: VU033815.D
Acq: 15 Aug 2019 17:00

Tgt Ion	Ratio	Lower	Upper
97	100		
99	63.8	51.8	77.8
61	43.6	35.8	53.6





#31

Carbon tetrachloride

Concen: 47.940 ug/L

RT: 5.11 min Scan# 1251

Delta R.T. 0.00 min

Lab File: VU033815.D

Acq: 15 Aug 2019 17:00

Instrument :

MSVOA_U

ClientSampleId :

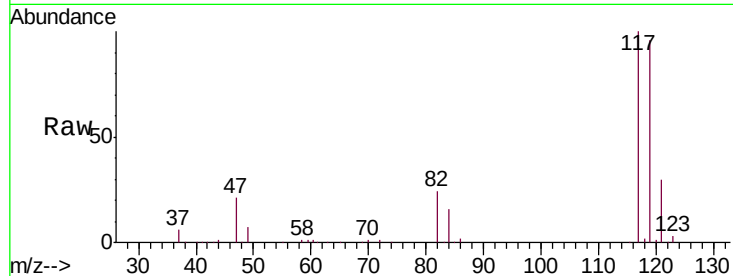
VSTD05043

Tgt Ion:117 Resp: 219357

Ion Ratio Lower Upper

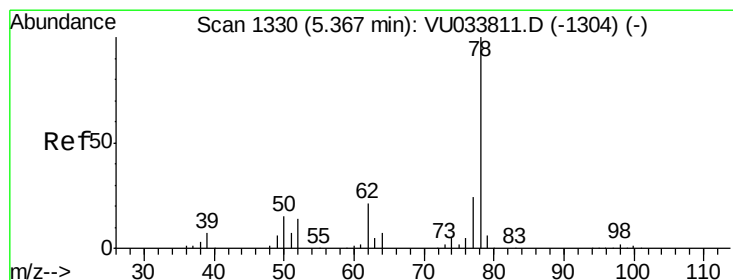
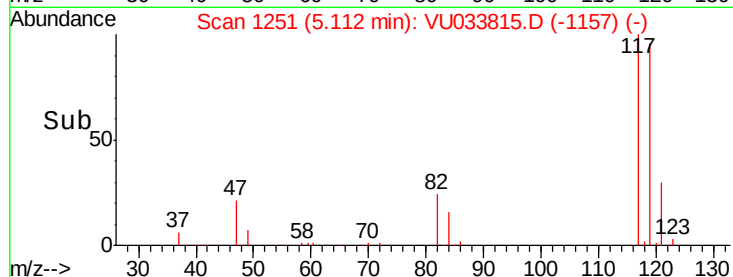
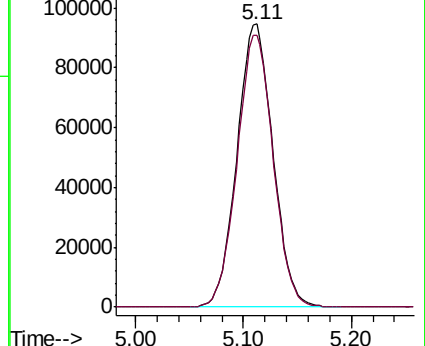
117 100

119 96.3 77.0 115.6



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#33

Benzene

Concen: 50.162 ug/L

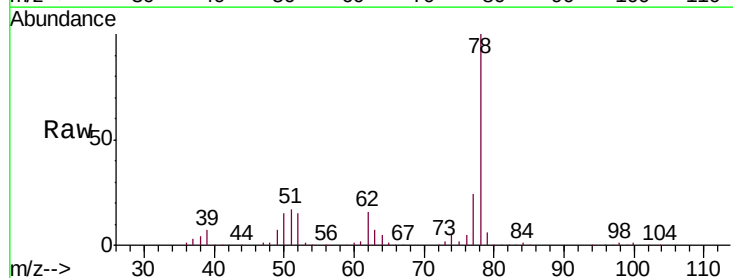
RT: 5.36 min Scan# 1329

Delta R.T. -0.00 min

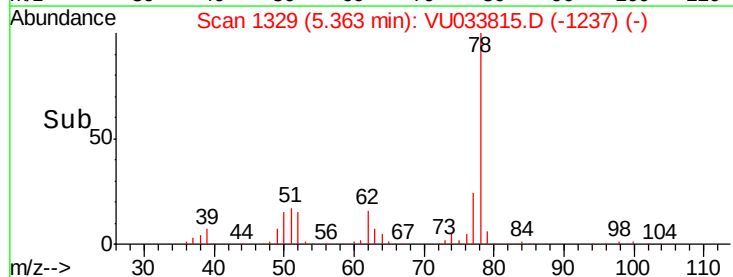
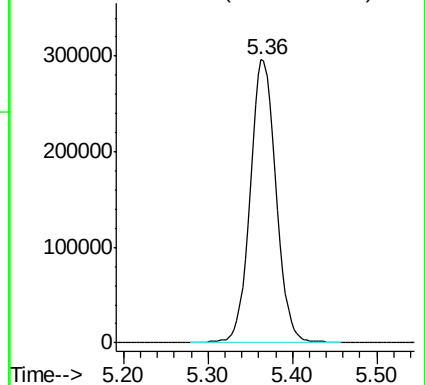
Lab File: VU033815.D

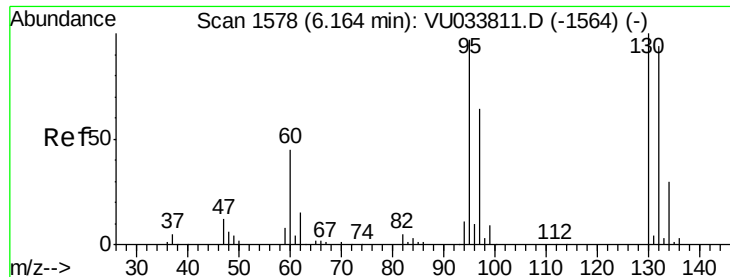
Acq: 15 Aug 2019 17:00

Tgt Ion: 78 Resp: 632893



Abundance Ion 78.00 (77.70 to 78.70): VU0

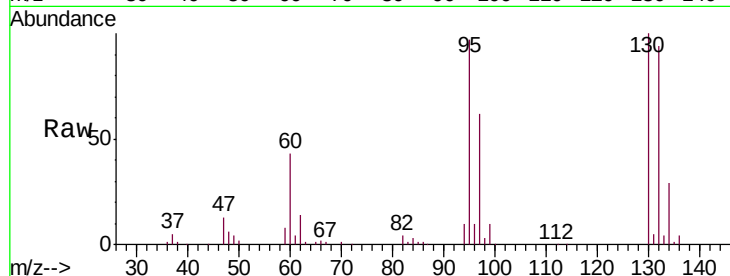




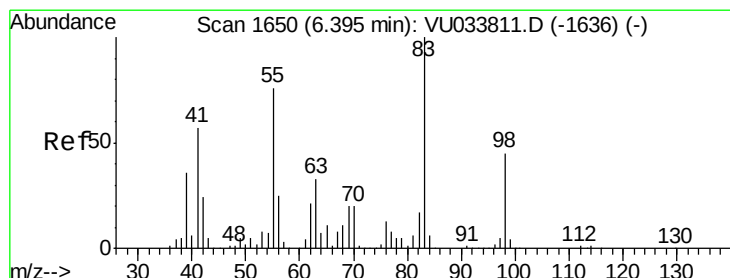
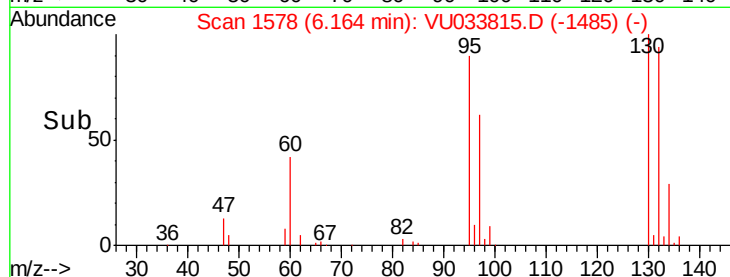
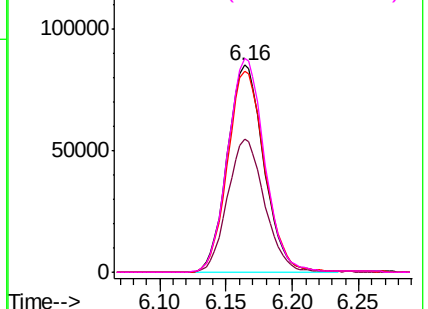
#34
 Trichloroethene
 Concen: 48.561 ug/L
 RT: 6.16 min Scan# 1578
 Delta R.T. -0.00 min
 Lab File: VU033815.D
 Acq: 15 Aug 2019 17:00

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

Tgt Ion: 95 Resp: 163518
 Ion Ratio Lower Upper
 95 100
 97 64.2 46.3 86.1
 132 97.1 67.9 126.1
 130 103.1 72.0 133.6

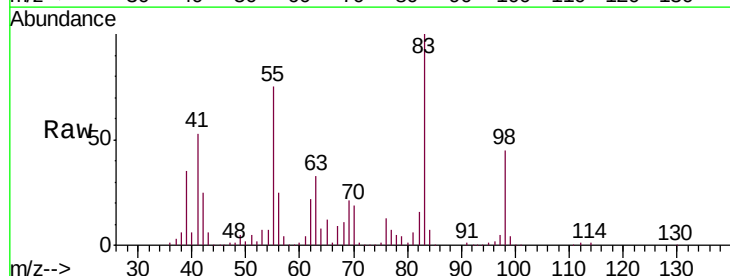


Abundance Ion 95.00 (94.70 to 95.70): VU0
 Ion 97.00 (96.70 to 97.70): VU0
 Ion 132.00 (131.70 to 132.70): V
 Ion 130.00 (129.70 to 130.70): V

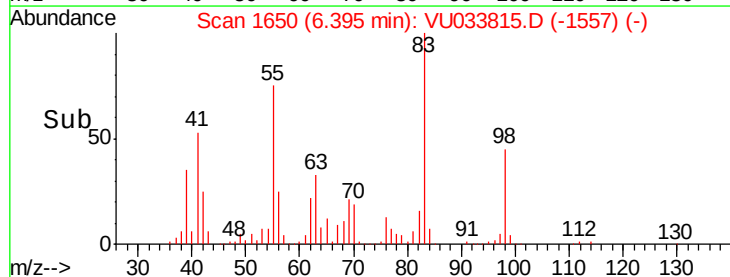
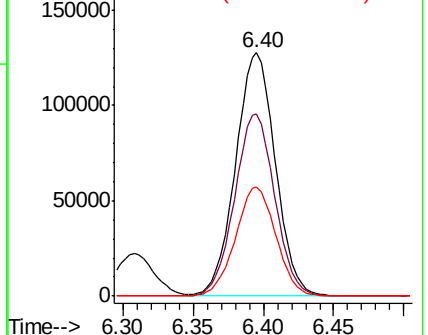


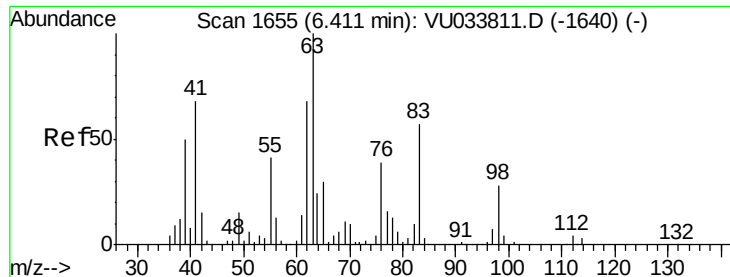
#35
 Methylcyclohexane
 Concen: 51.120 ug/L
 RT: 6.40 min Scan# 1650
 Delta R.T. -0.00 min
 Lab File: VU033815.D
 Acq: 15 Aug 2019 17:00

Tgt Ion: 83 Resp: 252069
 Ion Ratio Lower Upper
 83 100
 55 75.6 61.6 92.4
 98 45.6 37.2 55.8



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

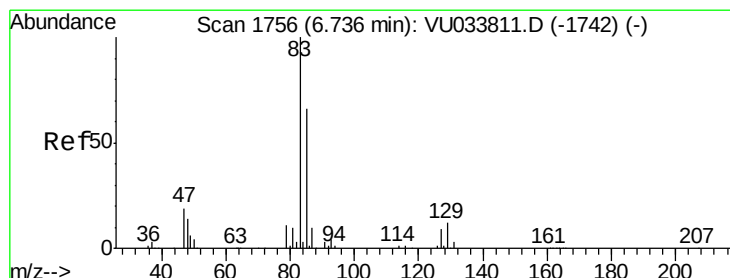
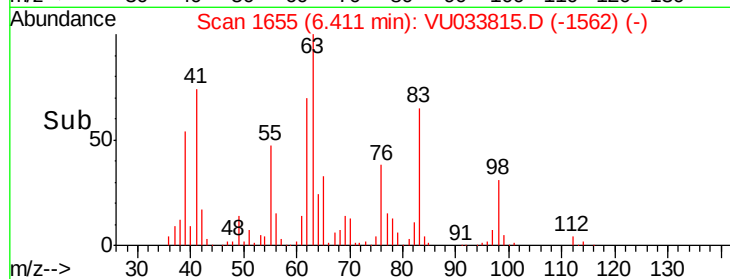
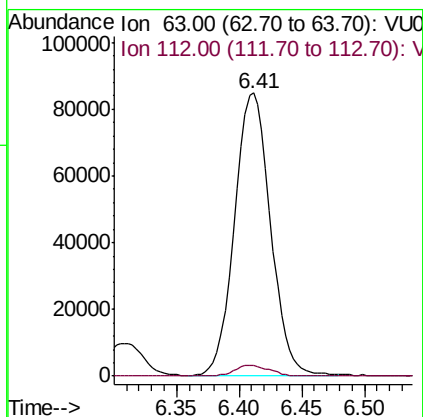
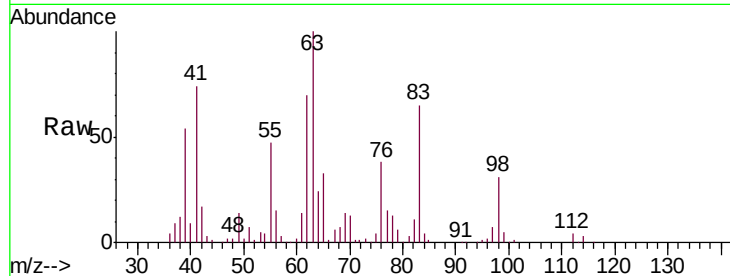




#37
 1,2-Dichloropropane
 Concen: 48.892 ug/L
 RT: 6.41 min Scan# 1655
 Delta R.T. -0.00 min
 Lab File: VU033815.D
 Acq: 15 Aug 2019 17:00

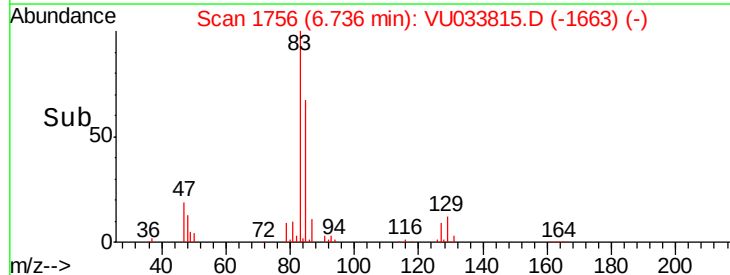
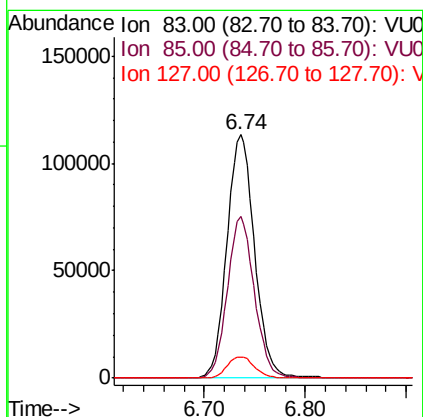
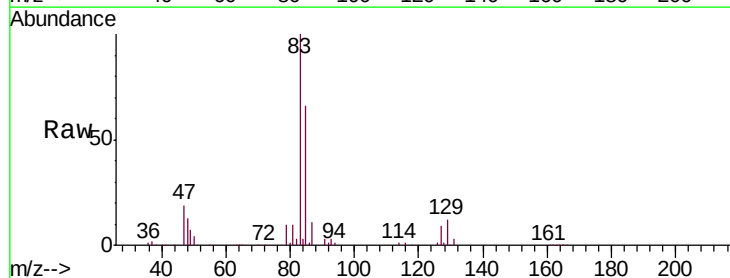
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

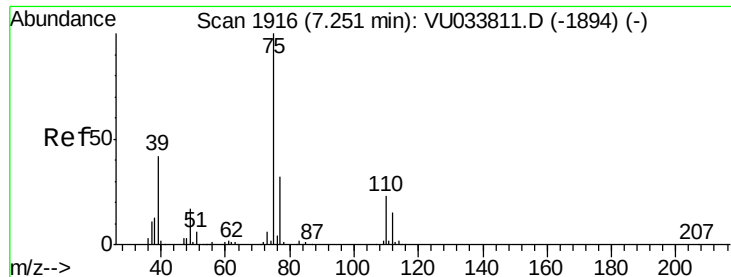
Tgt Ion: 63 Resp: 168921
 Ion Ratio Lower Upper
 63 100
 112 3.8 3.2 4.8



#38
 Bromodichloromethane
 Concen: 48.527 ug/L
 RT: 6.74 min Scan# 1756
 Delta R.T. -0.00 min
 Lab File: VU033815.D
 Acq: 15 Aug 2019 17:00

Tgt Ion: 83 Resp: 217076
 Ion Ratio Lower Upper
 83 100
 85 66.4 45.9 85.3
 127 8.8 7.3 10.9

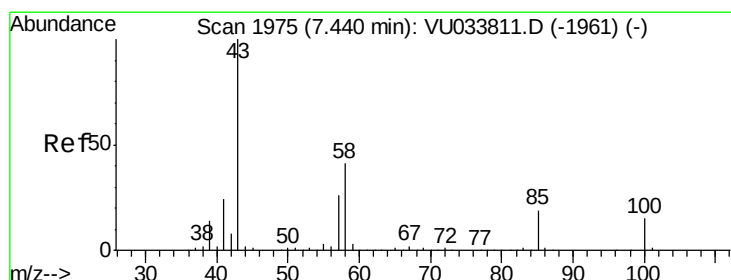
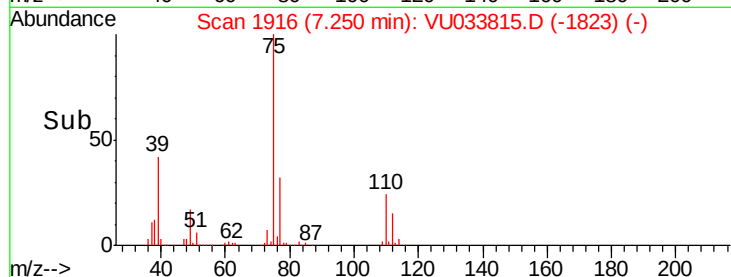
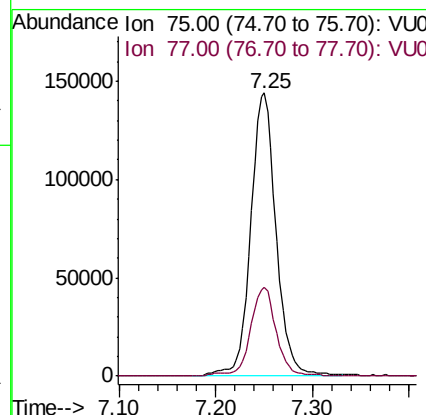
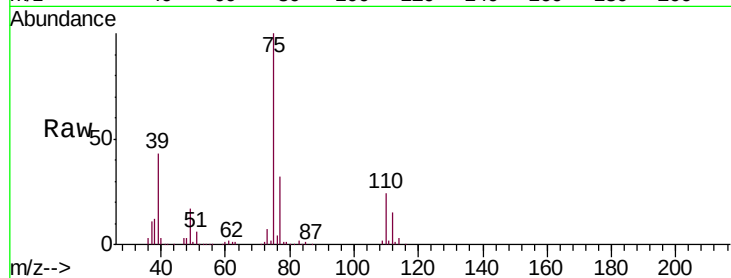




#39
 cis-1,3-Dichloropropene
 Concen: 52.224 ug/L
 RT: 7.25 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VU033815.D
 Acq: 15 Aug 2019 17:00

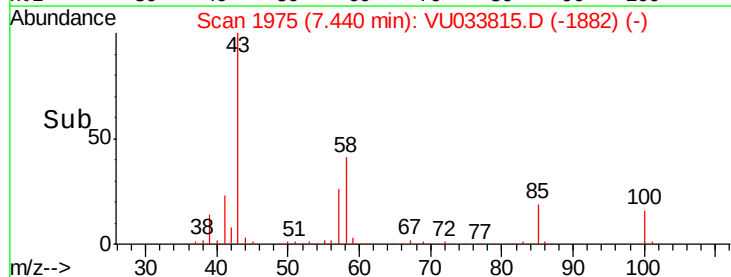
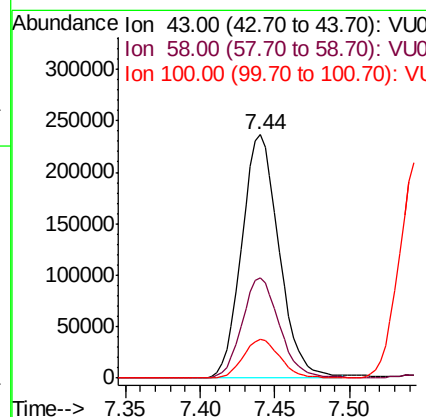
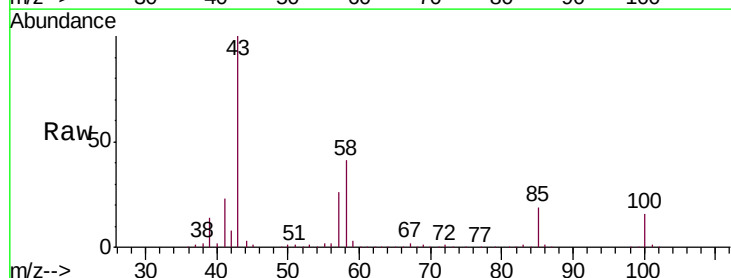
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

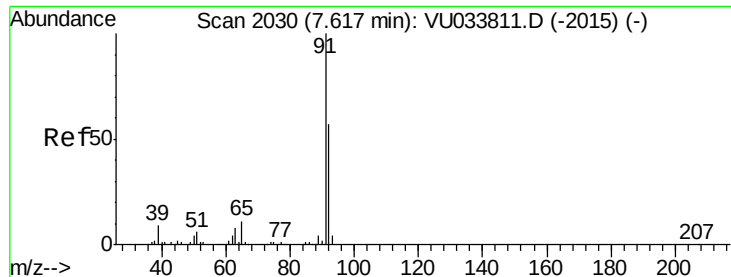
Tgt Ion: 75 Resp: 262972
 Ion Ratio Lower Upper
 75 100
 77 31.6 22.5 41.7



#40
 4-Methyl-2-pentanone
 Concen: 101.308 ug/L
 RT: 7.44 min Scan# 1975
 Delta R.T. -0.00 min
 Lab File: VU033815.D
 Acq: 15 Aug 2019 17:00

Tgt Ion: 43 Resp: 410884
 Ion Ratio Lower Upper
 43 100
 58 41.3 32.6 49.0
 100 15.8 12.4 18.6





#42

Toluene

Concen: 51.419 ug/L

RT: 7.62 min Scan# 2030

Delta R.T. -0.00 min

Lab File: VU033815.D

Acq: 15 Aug 2019 17:00

Instrument :

MSVOA_U

ClientSampleId :

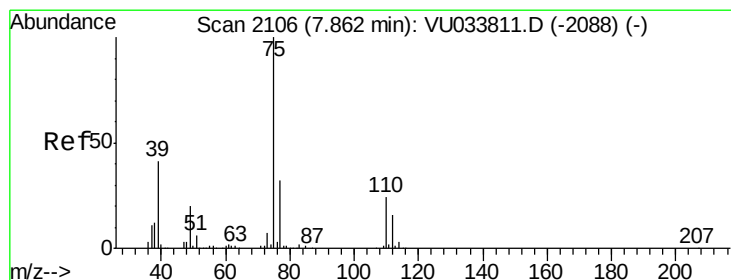
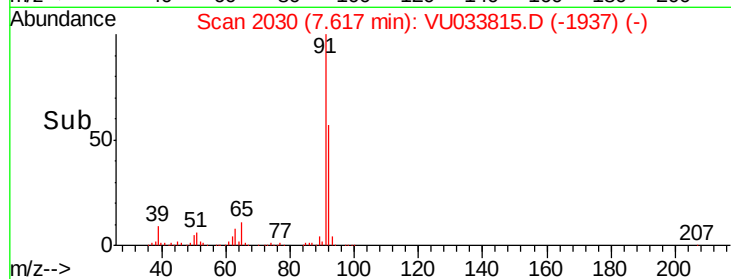
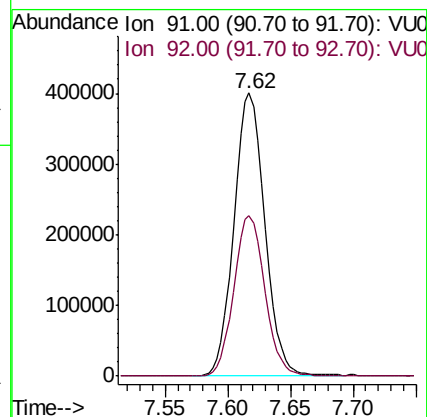
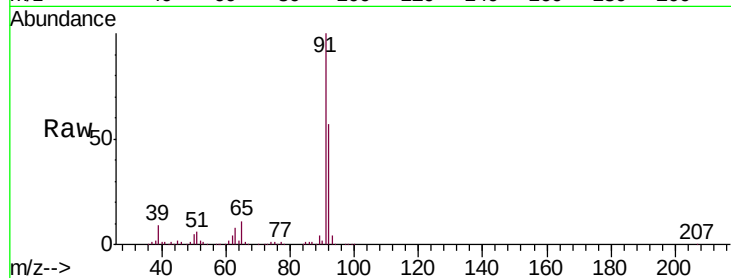
VSTD05043

Tgt Ion: 91 Resp: 685826

Ion Ratio Lower Upper

91 100

92 56.8 39.9 74.1



#44

trans-1,3-Dichloropropene

Concen: 51.225 ug/L

RT: 7.86 min Scan# 2106

Delta R.T. -0.00 min

Lab File: VU033815.D

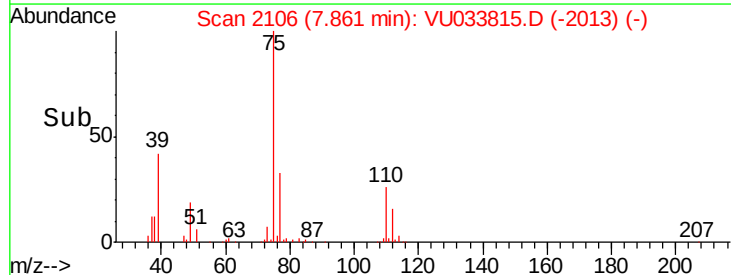
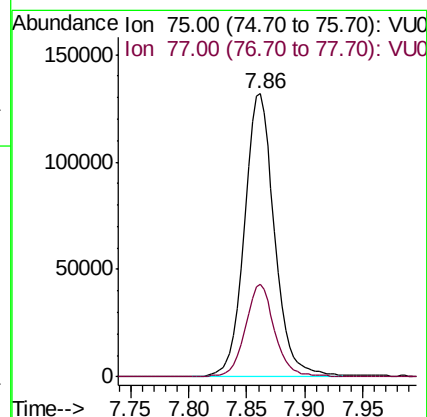
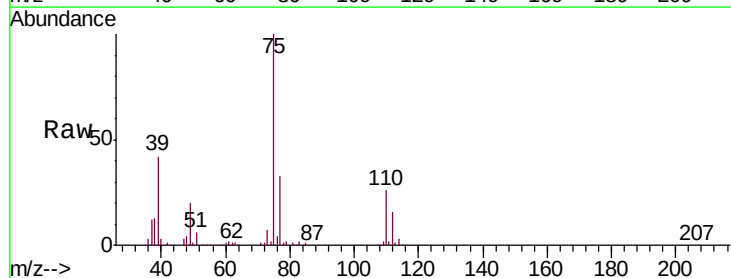
Acq: 15 Aug 2019 17:00

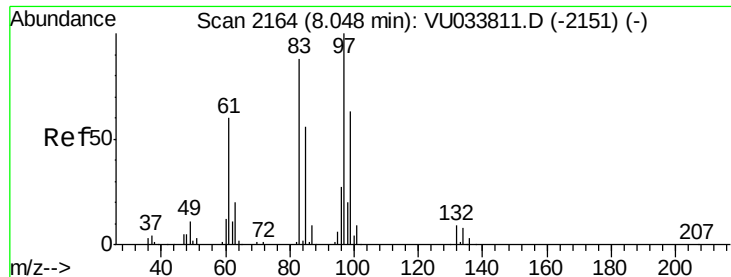
Tgt Ion: 75 Resp: 237051

Ion Ratio Lower Upper

75 100

77 32.8 22.5 41.9

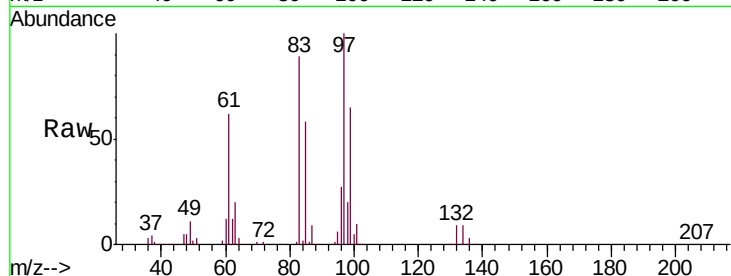




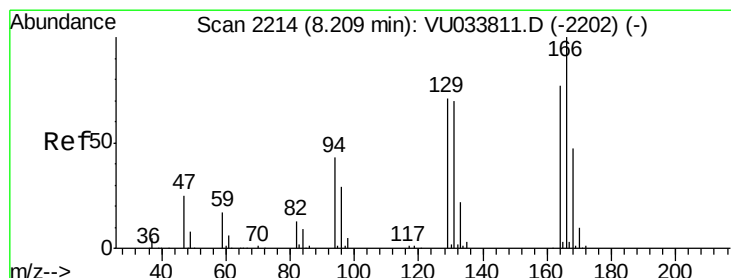
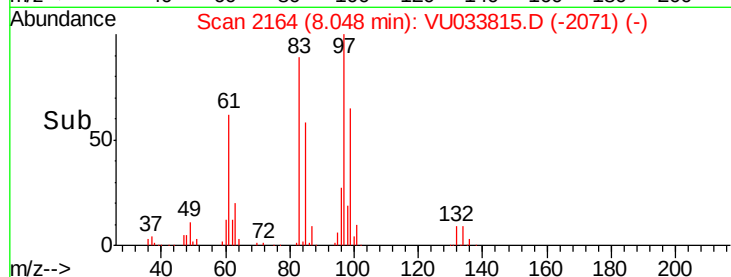
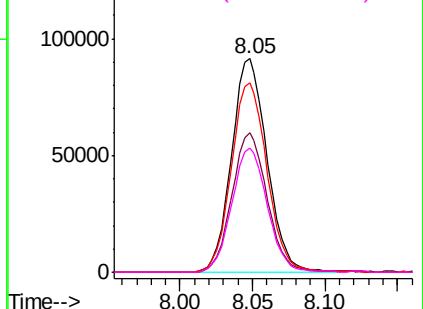
#45
 1,1,2-Trichloroethane
 Concen: 47.951 ug/L
 RT: 8.05 min Scan# 2164
 Delta R.T. -0.00 min
 Lab File: VU033815.D
 Acq: 15 Aug 2019 17:00

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

Tgt Ion:	97	Resp:	155497
Ion	Ratio	Lower	Upper
97	100		
99	65.4	43.9	81.5
83	88.8	61.7	114.5
85	58.2	39.2	72.8

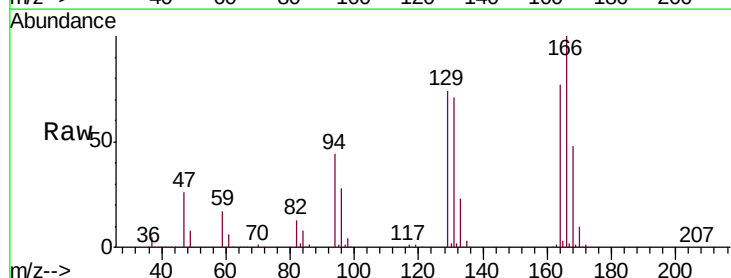


Abundance Ion 97.00 (96.70 to 97.70): VU0
 Ion 99.00 (98.70 to 99.70): VU0
 Ion 83.00 (82.70 to 83.70): VU0
 Ion 85.00 (84.70 to 85.70): VU0

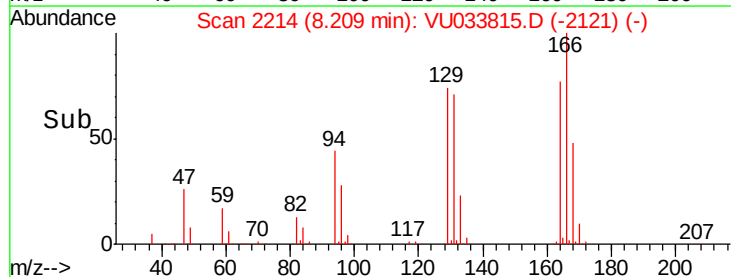
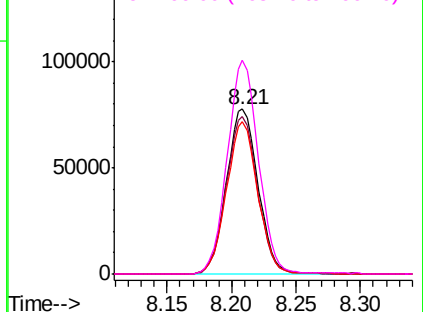


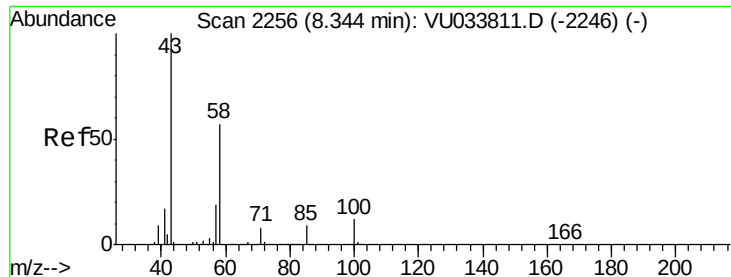
#46
 Tetrachloroethene
 Concen: 49.253 ug/L
 RT: 8.21 min Scan# 2214
 Delta R.T. -0.00 min
 Lab File: VU033815.D
 Acq: 15 Aug 2019 17:00

Tgt Ion:	164	Resp:	132962
Ion	Ratio	Lower	Upper
164	100		
129	95.2	64.4	119.6
131	92.2	63.8	118.4
166	129.5	90.9	168.7



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

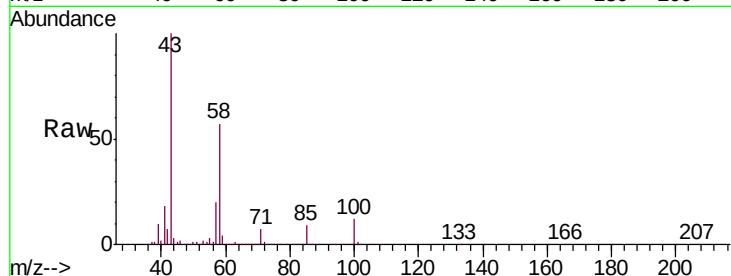




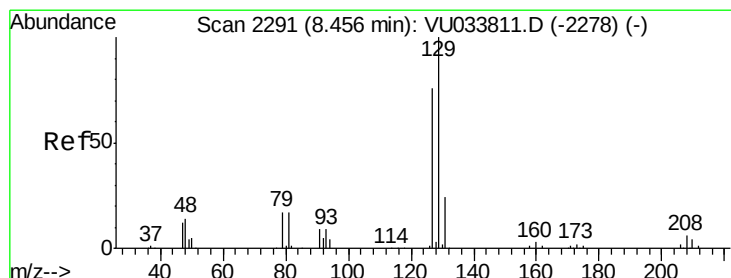
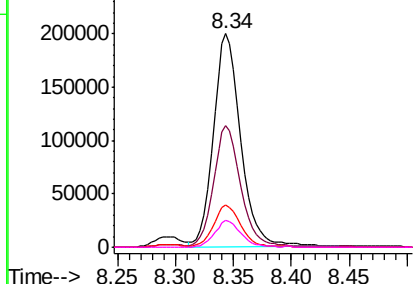
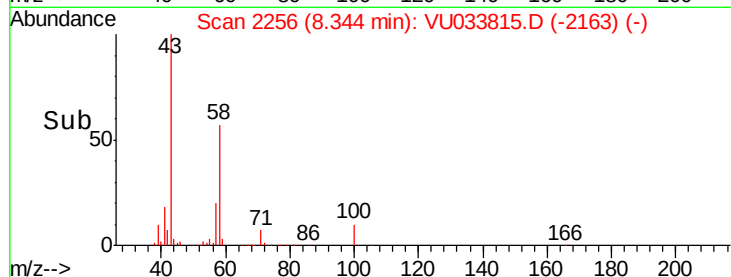
#48
2-Hexanone
Concen: 102.758 ug/L
RT: 8.34 min Scan# 2256
Delta R.T. -0.00 min
Lab File: VU033815.D
Acq: 15 Aug 2019 17:00

Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

Tgt Ion:	43	Resp:	326795
Ion	Ratio	Lower	Upper
43	100		
58	55.7	45.0	67.4
57	19.4	15.4	23.0
100	12.0	9.6	14.4

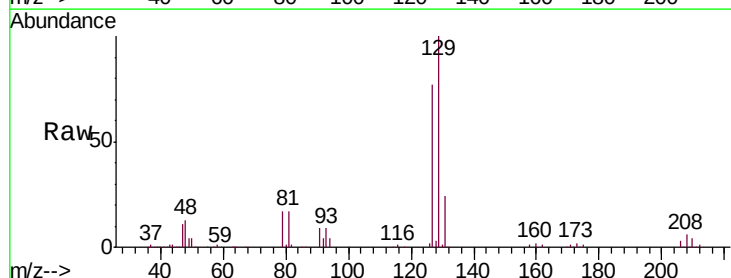


Abundance Ion 43.00 (42.70 to 43.70): VU033815.D (-2163) (-)
Ion 58.00 (57.70 to 58.70): VU033815.D (-2163) (-)
Ion 57.00 (56.70 to 57.70): VU033815.D (-2163) (-)
Ion 100.00 (99.70 to 100.70): VU033815.D (-2163) (-)

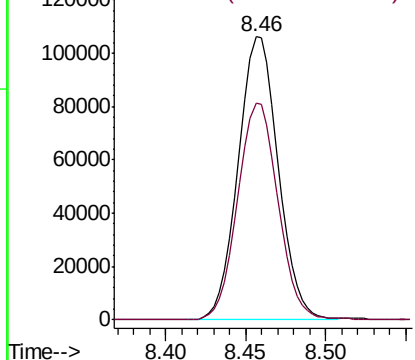
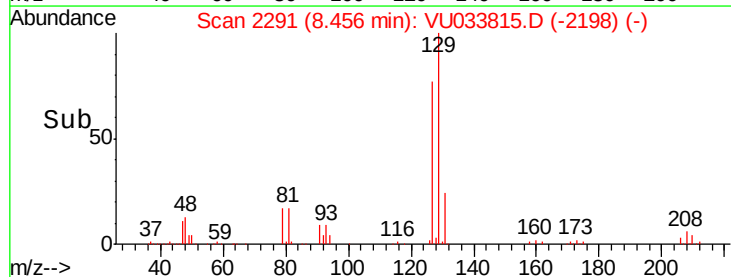


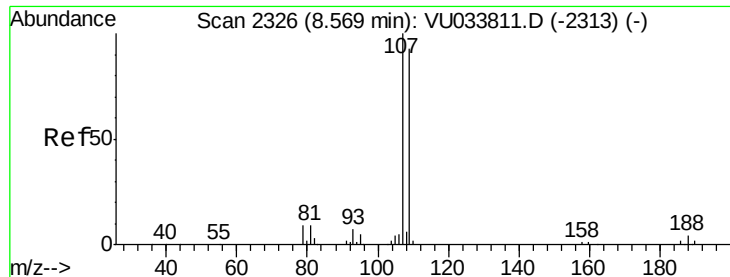
#49
Dibromochloromethane
Concen: 49.537 ug/L
RT: 8.46 min Scan# 2291
Delta R.T. -0.00 min
Lab File: VU033815.D
Acq: 15 Aug 2019 17:00

Tgt Ion:	129	Resp:	181391
Ion	Ratio	Lower	Upper
129	100		
127	76.7	53.4	99.2



Abundance Ion 129.00 (128.70 to 129.70): VU033815.D (-2198) (-)
Ion 127.00 (126.70 to 127.70): VU033815.D (-2198) (-)

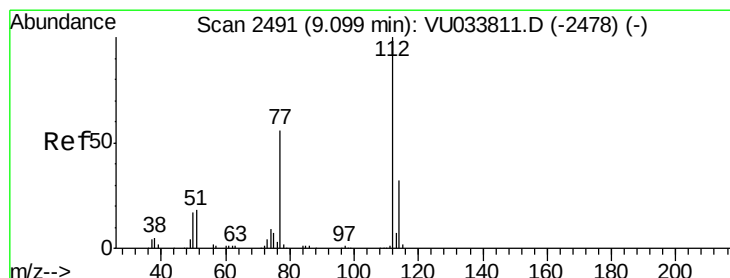
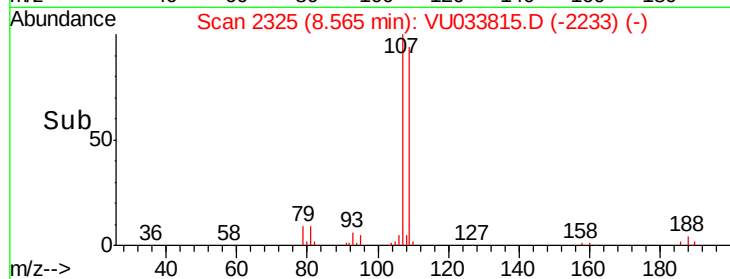
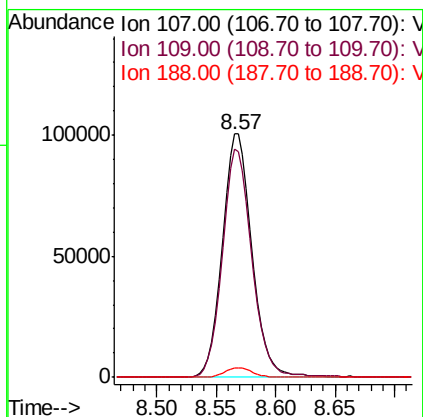
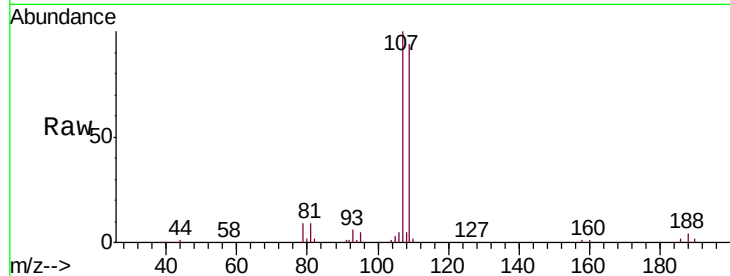




#50
1,2-Dibromoethane
Concen: 50.176 ug/L
RT: 8.57 min Scan# 2325
Delta R.T. -0.00 min
Lab File: VU033815.D
Acq: 15 Aug 2019 17:00

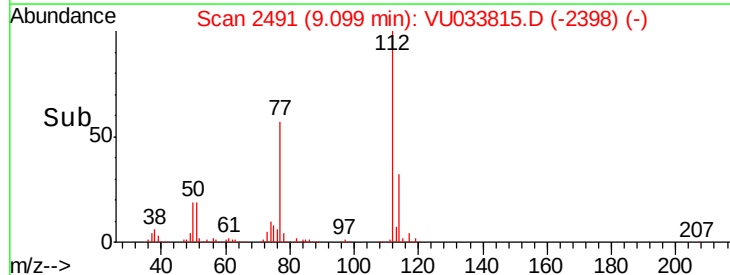
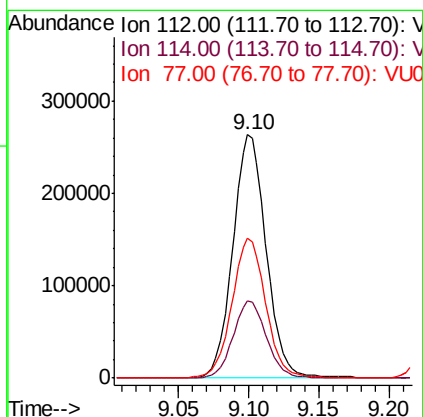
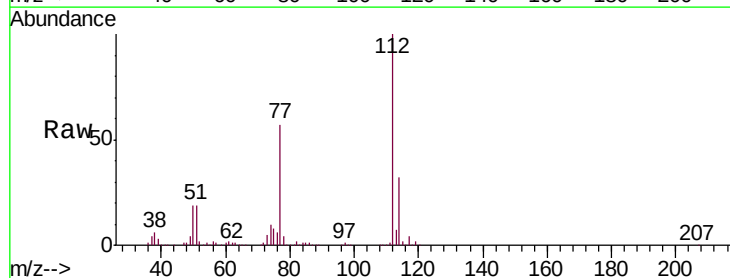
Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

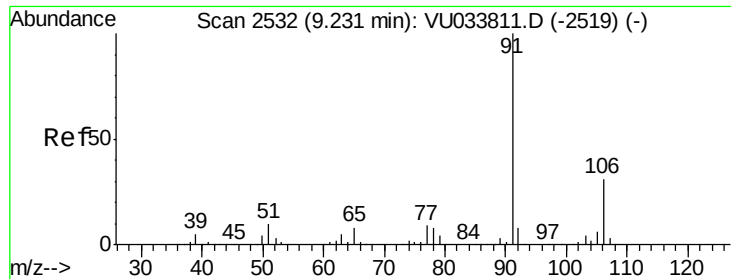
Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.7	64.8	120.3
188	3.7	3.1	4.7



#51
Chlorobenzene
Concen: 49.489 ug/L
RT: 9.10 min Scan# 2491
Delta R.T. -0.00 min
Lab File: VU033815.D
Acq: 15 Aug 2019 17:00

Tgt Ion	Ratio	Lower	Upper
112	100		
114	31.6	22.5	41.9
77	57.3	45.4	68.0

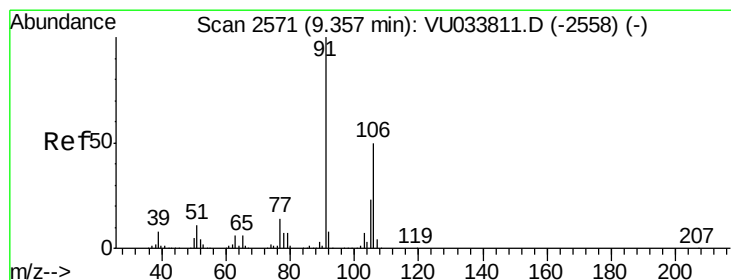
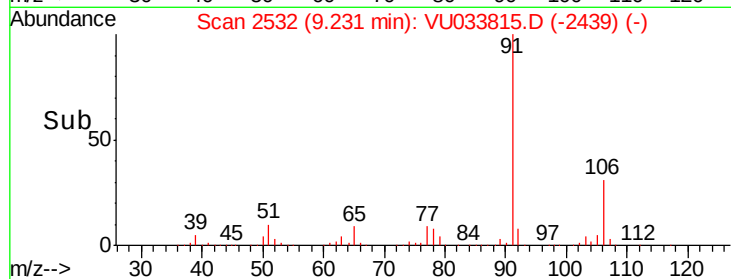
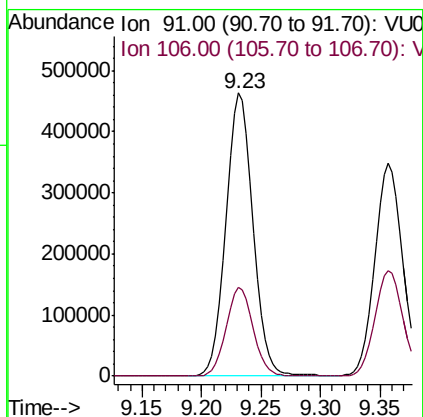
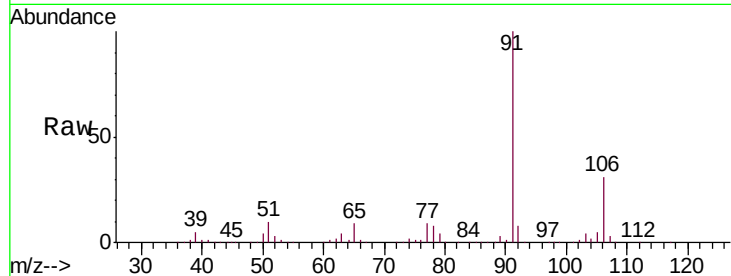




#52
Ethylbenzene
Concen: 51.777 ug/L
RT: 9.23 min Scan# 2532
Delta R.T. -0.00 min
Lab File: VU033815.D
Acq: 15 Aug 2019 17:00

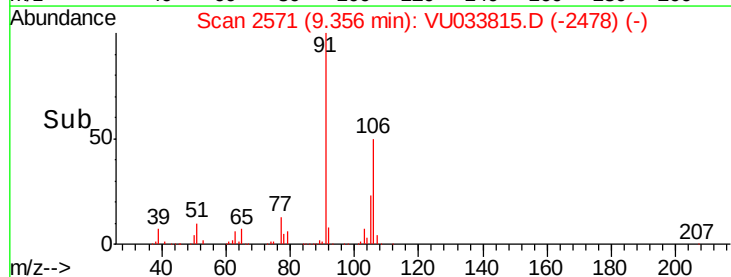
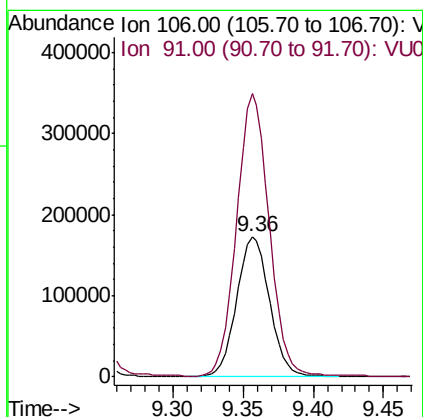
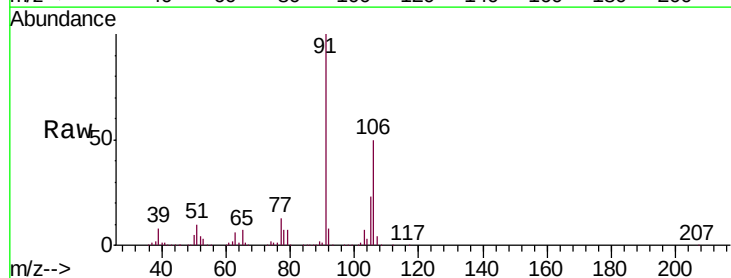
Instrument :
MSVOA_U
ClientSampleId :
VSTD05043

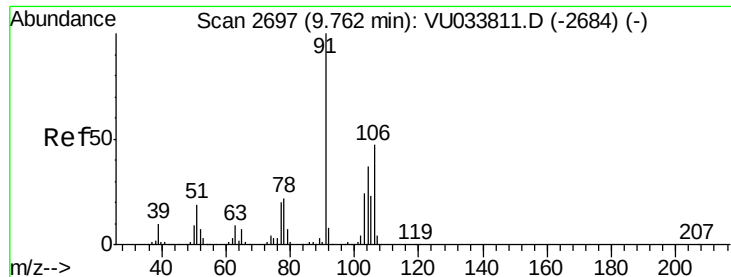
Tgt Ion: 91 Resp: 731699
Ion Ratio Lower Upper
91 100
106 31.3 21.8 40.6



#53
m,p-Xylene
Concen: 53.488 ug/L
RT: 9.36 min Scan# 2571
Delta R.T. -0.00 min
Lab File: VU033815.D
Acq: 15 Aug 2019 17:00

Tgt Ion: 106 Resp: 282940
Ion Ratio Lower Upper
106 100
91 201.7 140.9 261.7





#54

o-xylene

Concen: 53.701 ug/L

RT: 9.76 min Scan# 2697

Delta R.T. -0.00 min

Lab File: VU033815.D

Acq: 15 Aug 2019 17:00

Instrument :

MSVOA_U

ClientSampleId :

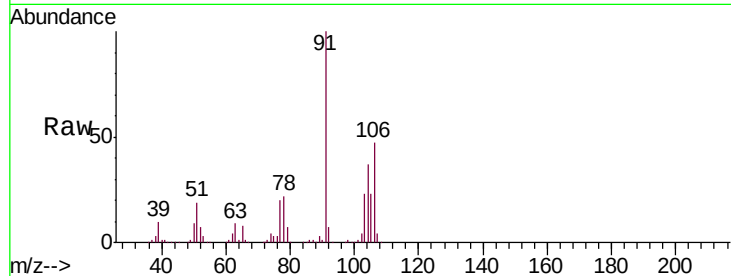
VSTD05043

Tgt Ion:106 Resp: 275253

Ion Ratio Lower Upper

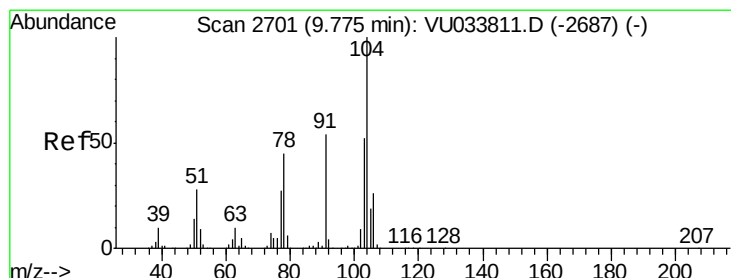
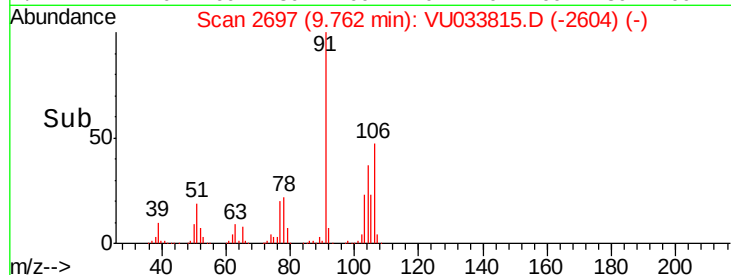
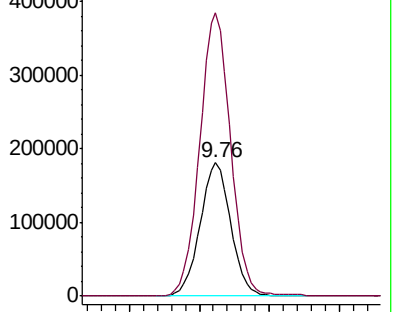
106 100

91 212.8 147.8 274.6



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VU0



#55

Styrene

Concen: 54.360 ug/L

RT: 9.77 min Scan# 2701

Delta R.T. -0.00 min

Lab File: VU033815.D

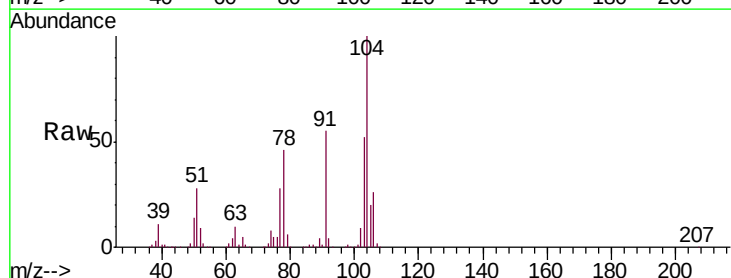
Acq: 15 Aug 2019 17:00

Tgt Ion:104 Resp: 477409

Ion Ratio Lower Upper

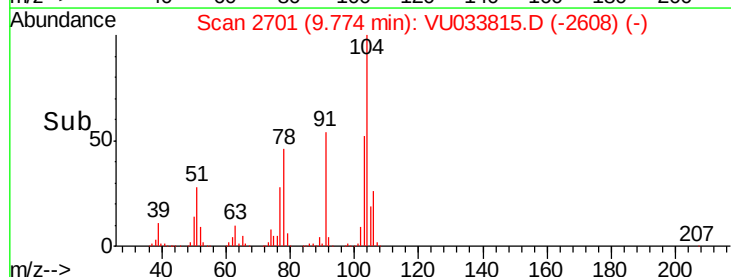
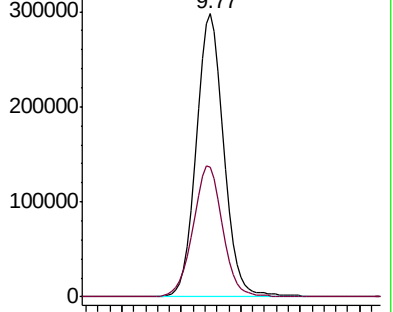
104 100

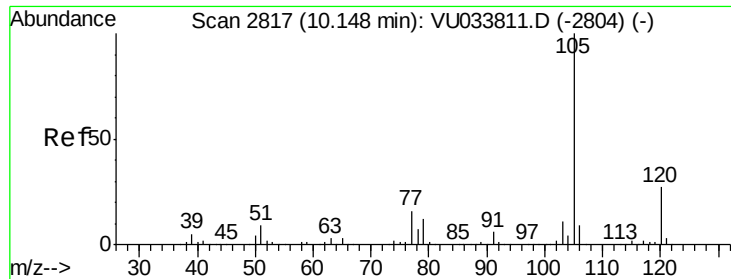
78 45.9 31.8 59.0



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VU0





#56

Isopropylbenzene

Concen: 53.687 ug/L

RT: 10.15 min Scan# 2817

Delta R.T. -0.00 min

Lab File: VU033815.D

Acq: 15 Aug 2019 17:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

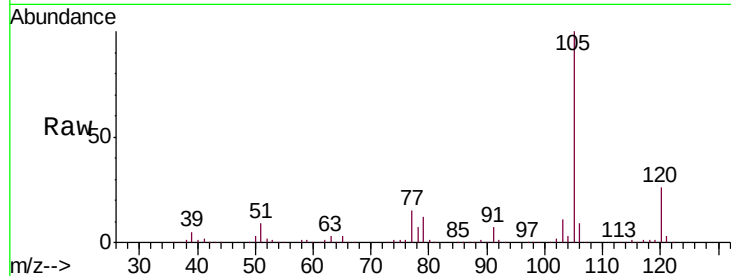
Tgt Ion: 105 Resp: 719506

Ion Ratio Lower Upper

105 100

120 26.4 21.4 32.0

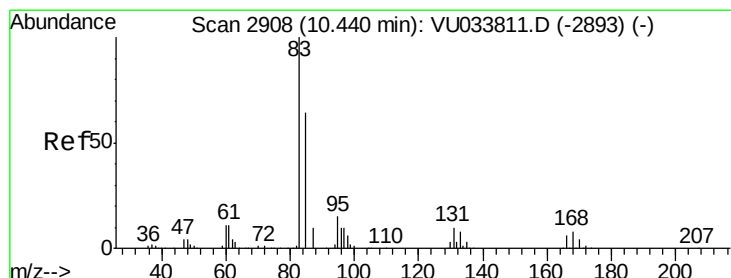
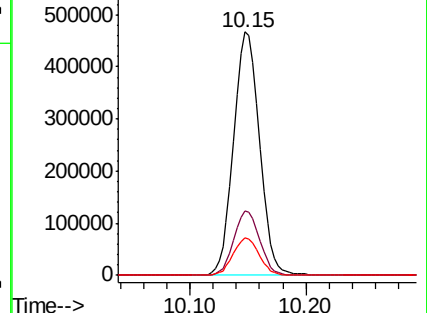
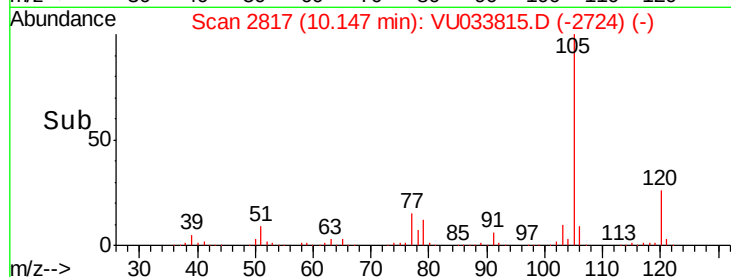
77 15.6 12.5 18.7



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: 49.953 ug/L

RT: 10.44 min Scan# 2908

Delta R.T. -0.00 min

Lab File: VU033815.D

Acq: 15 Aug 2019 17:00

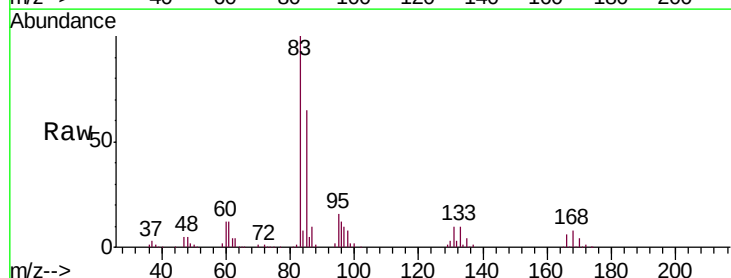
Tgt Ion: 83 Resp: 262188

Ion Ratio Lower Upper

83 100

85 64.8 44.6 82.8

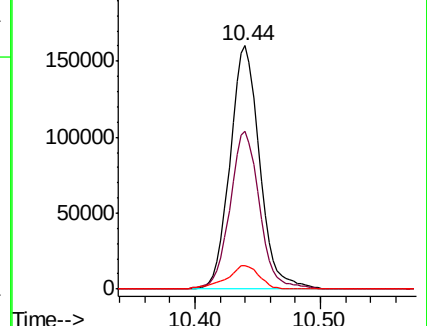
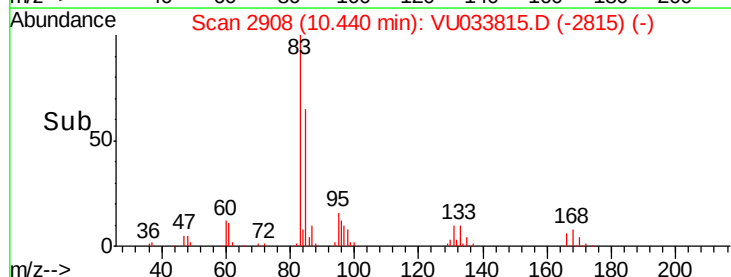
131 9.7 7.8 11.6

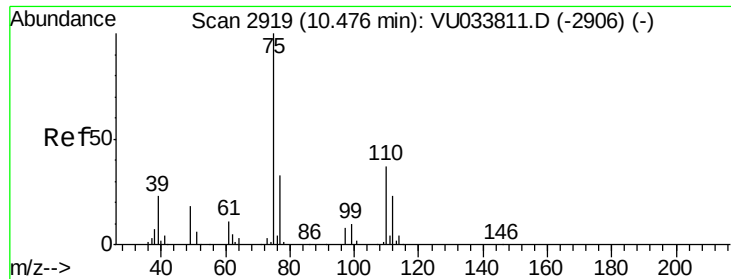


Abundance Ion 83.00 (82.70 to 83.70): V

Ion 85.00 (84.70 to 85.70): V

Ion 131.00 (130.70 to 131.70): V





#59

1,2,3-Trichloropropane

Concen: 50.247 ug/L

RT: 10.48 min Scan# 2919

Delta R.T. -0.00 min

Lab File: VU033815.D

Acq: 15 Aug 2019 17:00

Instrument :

MSVOA_U

ClientSampleId :

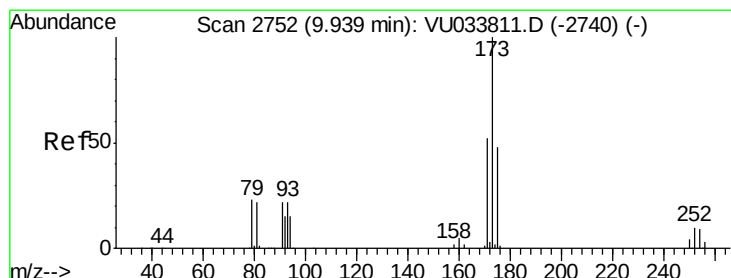
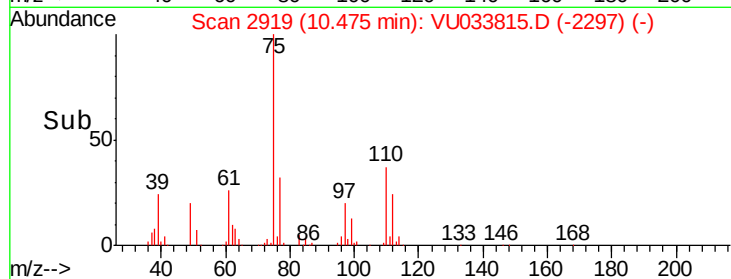
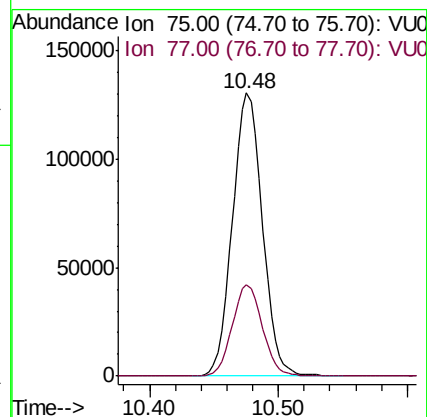
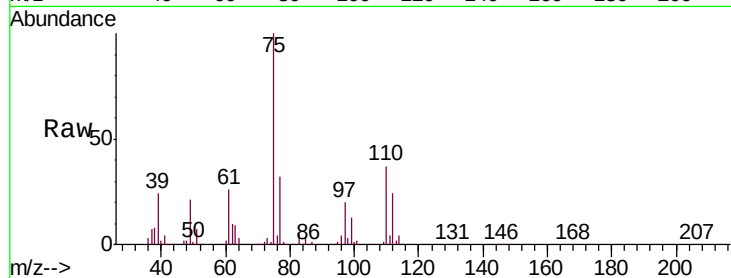
VSTD05043

Tgt Ion: 75 Resp: 210277

Ion Ratio Lower Upper

75 100

77 32.6 26.0 39.0



#61

Bromoform

Concen: 49.082 ug/L

RT: 9.94 min Scan# 2753

Delta R.T. 0.00 min

Lab File: VU033815.D

Acq: 15 Aug 2019 17:00

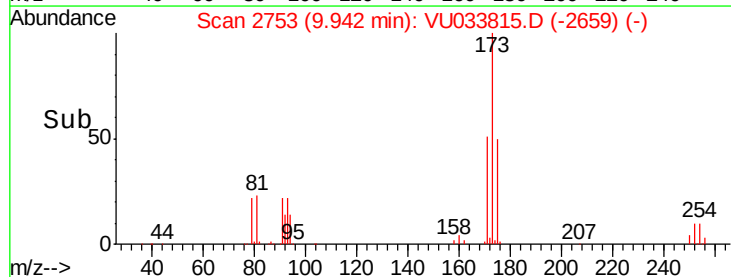
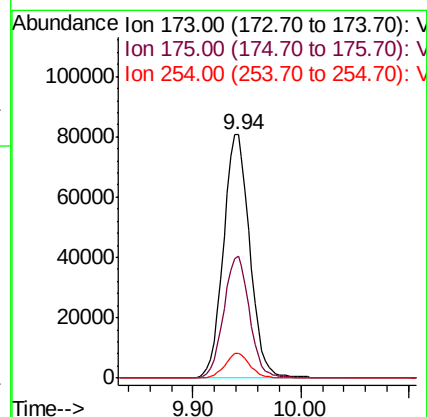
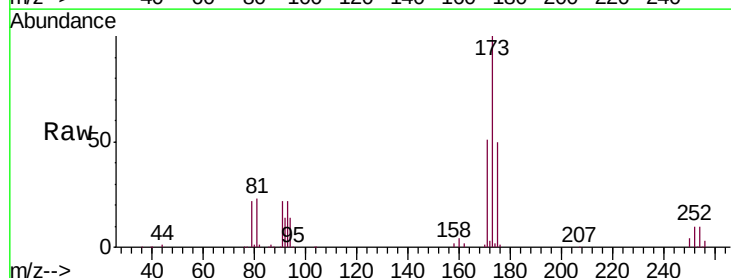
Tgt Ion: 173 Resp: 137254

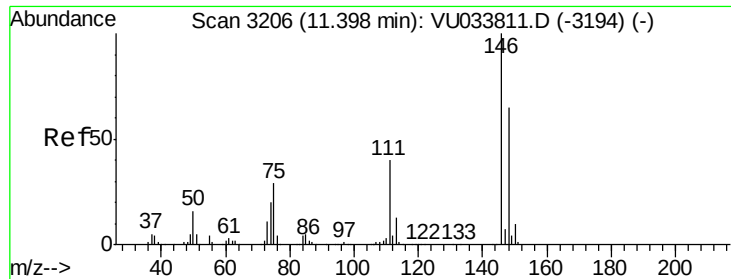
Ion Ratio Lower Upper

173 100

175 49.0 38.8 58.2

254 9.6 7.4 11.0





#62

1,3-Dichlorobenzene

Concen: 51.065 ug/L

RT: 11.40 min Scan# 3206

Delta R.T. -0.00 min

Lab File: VU033815.D

Acq: 15 Aug 2019 17:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

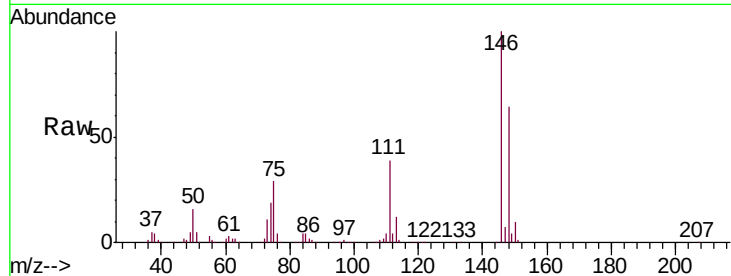
Tgt Ion:146 Resp: 359802

Ion Ratio Lower Upper

146 100

111 39.3 28.1 52.1

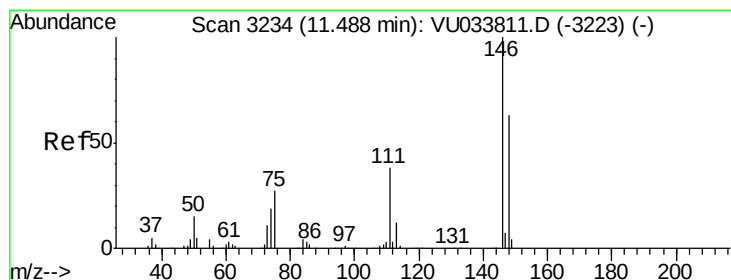
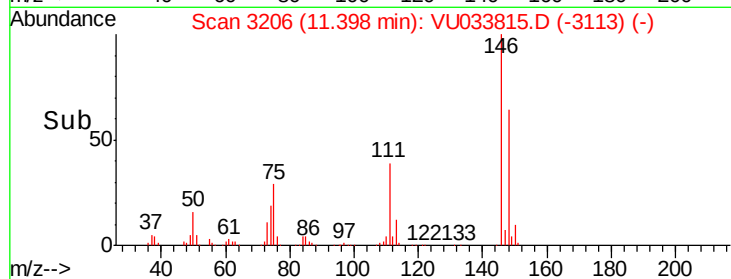
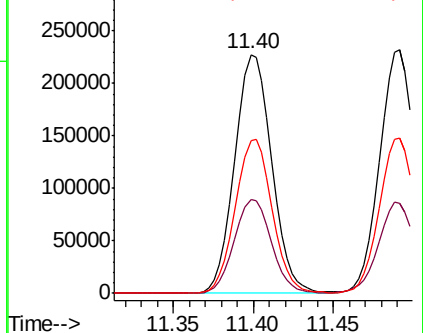
148 63.8 45.2 84.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V



#63

1,4-Dichlorobenzene

Concen: 50.275 ug/L

RT: 11.49 min Scan# 3235

Delta R.T. 0.00 min

Lab File: VU033815.D

Acq: 15 Aug 2019 17:00

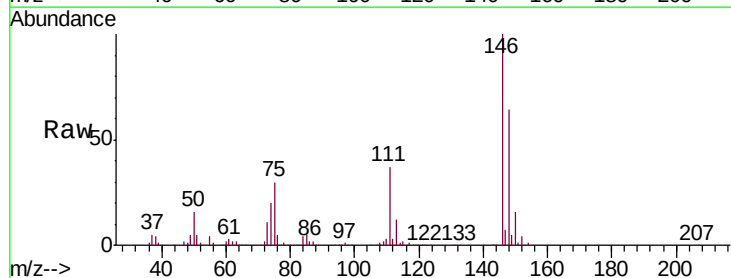
Tgt Ion:146 Resp: 366720

Ion Ratio Lower Upper

146 100

111 37.1 27.0 50.2

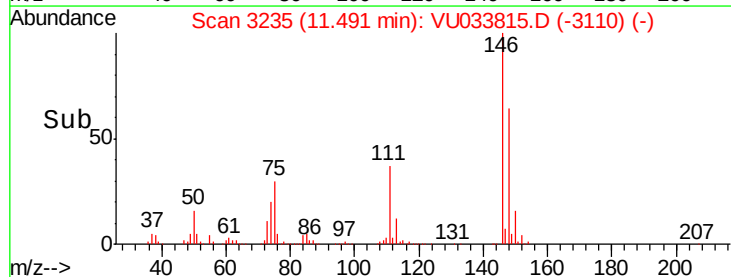
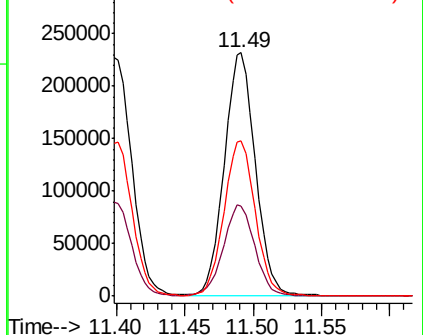
148 63.7 44.5 82.7

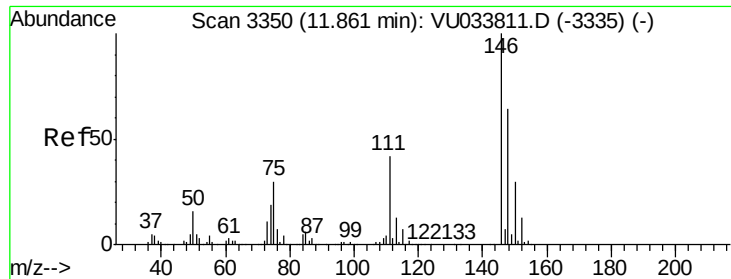


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.00 (110.70 to 111.70): V

Ion 148.00 (147.70 to 148.70): V

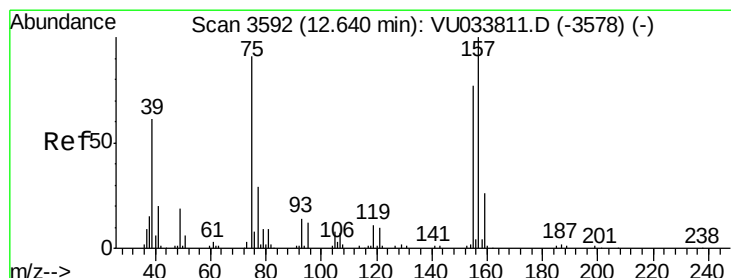
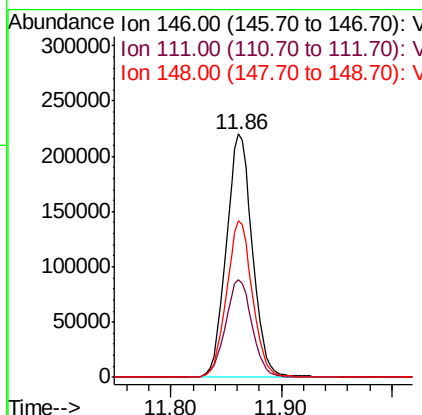
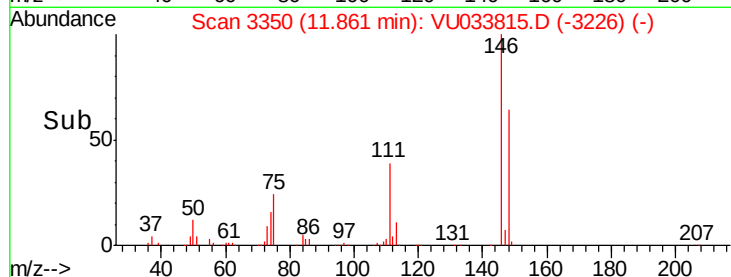
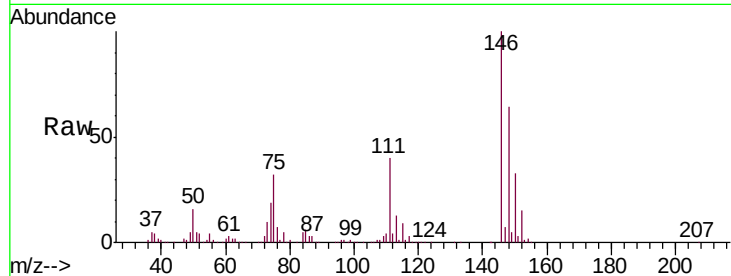




#65
 1,2-Dichlorobenzene
 Concen: 50.979 ug/L
 RT: 11.86 min Scan# 3350
 Delta R.T. -0.00 min
 Lab File: VU033815.D
 Acq: 15 Aug 2019 17:00

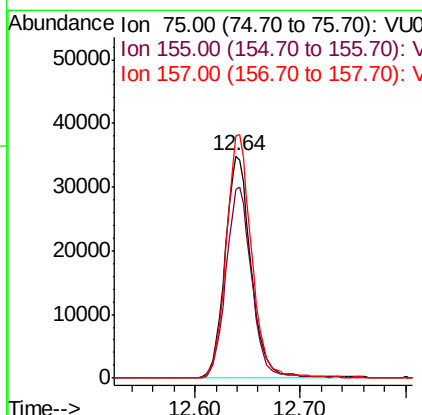
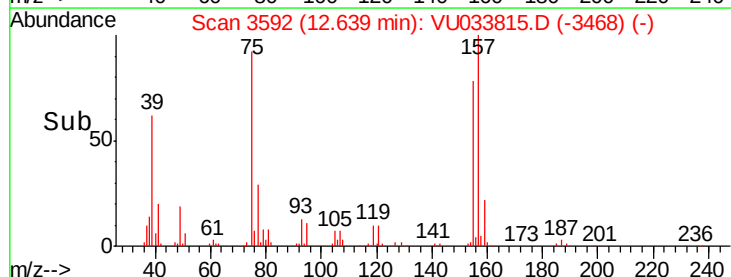
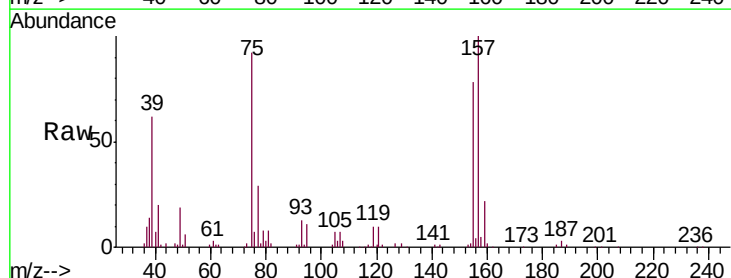
Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

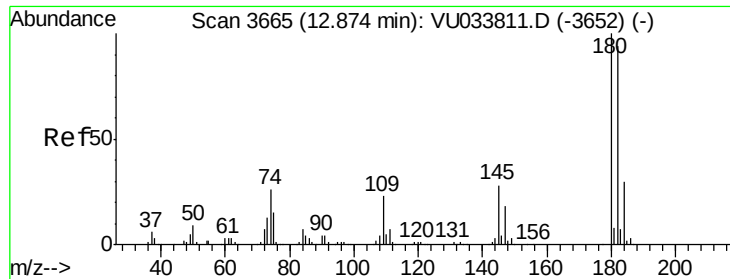
Tgt Ion	Ratio	Lower	Upper
146	100		
111	40.3	33.8	50.6
148	64.1	51.0	76.4



#66
 1,2-Dibromo-3-chloropropane
 Concen: 50.406 ug/L
 RT: 12.64 min Scan# 3592
 Delta R.T. -0.00 min
 Lab File: VU033815.D
 Acq: 15 Aug 2019 17:00

Tgt Ion	Ratio	Lower	Upper
75	100		
155	84.9	67.5	101.3
157	109.1	87.7	131.5

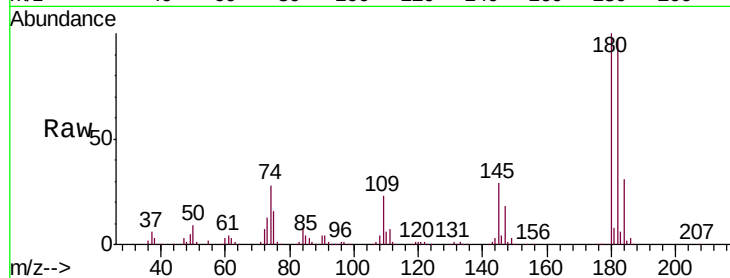




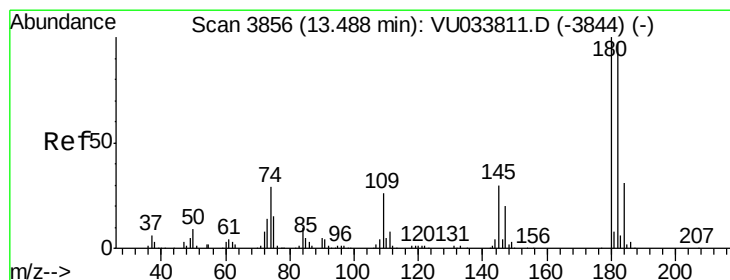
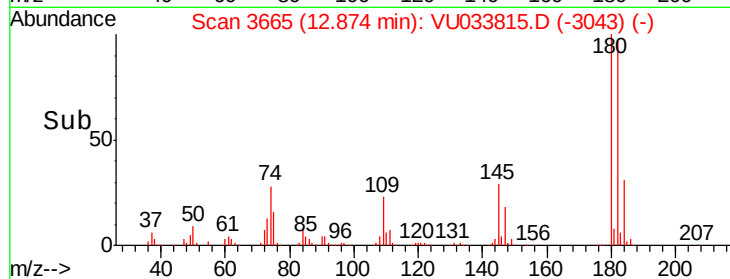
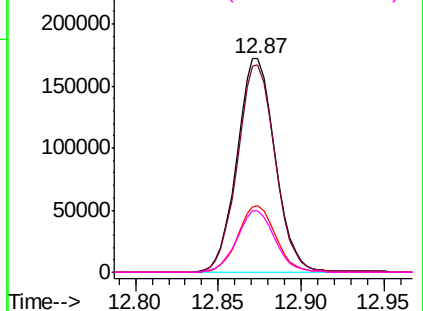
#67
 1,3,5-Trichlorobenzene
 Concen: 50.667 ug/L
 RT: 12.87 min Scan# 3665
 Delta R.T. -0.00 min
 Lab File: VU033815.D
 Acq: 15 Aug 2019 17:00

Instrument :
 MSVOA_U
 ClientSampleId :
 VSTD05043

Tgt Ion	Ratio	Lower	Upper
180	100		
182	96.0	75.8	113.8
184	31.0	23.8	35.8
145	28.9	22.9	34.3

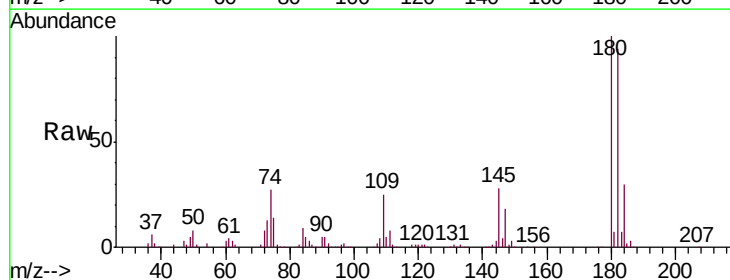


Abundance Ion 180.00 (179.70 to 180.70): V
 Ion 182.00 (181.70 to 182.70): V
 Ion 184.00 (183.70 to 184.70): V
 Ion 145.00 (144.70 to 145.70): V

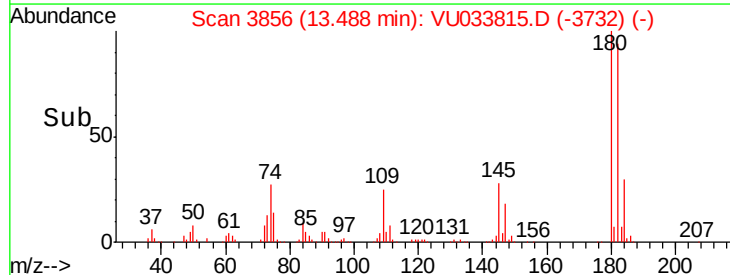
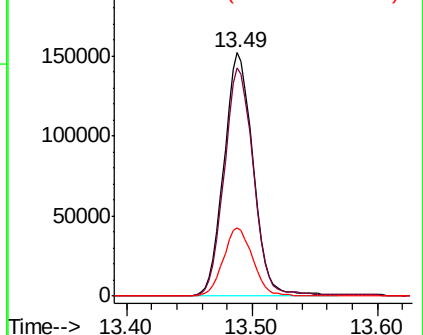


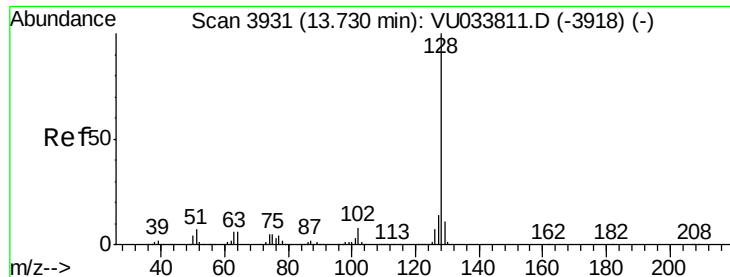
#68
 1,2,4-trichlorobenzene
 Concen: 55.222 ug/L
 RT: 13.49 min Scan# 3856
 Delta R.T. -0.00 min
 Lab File: VU033815.D
 Acq: 15 Aug 2019 17:00

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.8	76.2	114.2
145	28.1	23.8	35.8



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





#69

Naphthalene

Concen: 58.439 ug/L

RT: 13.73 min Scan# 3931

Delta R.T. -0.00 min

Lab File: VU033815.D

Acq: 15 Aug 2019 17:00

Instrument :

MSVOA_U

ClientSampleId :

VSTD05043

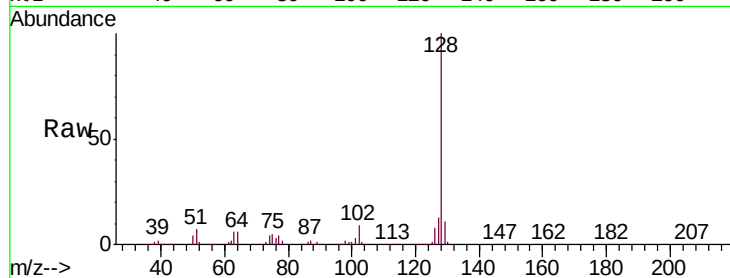
Tgt Ion:128 Resp: 717817

Ion Ratio Lower Upper

128 100

127 13.2 10.7 16.1

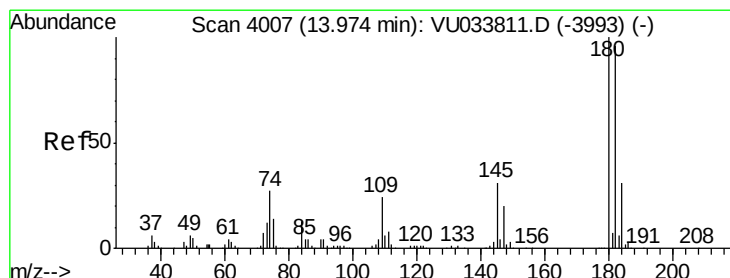
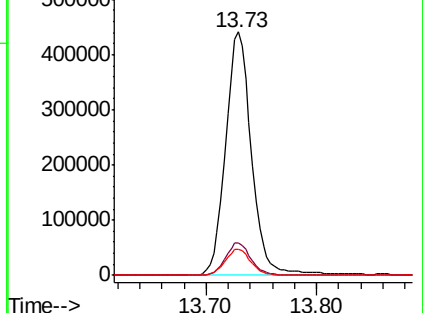
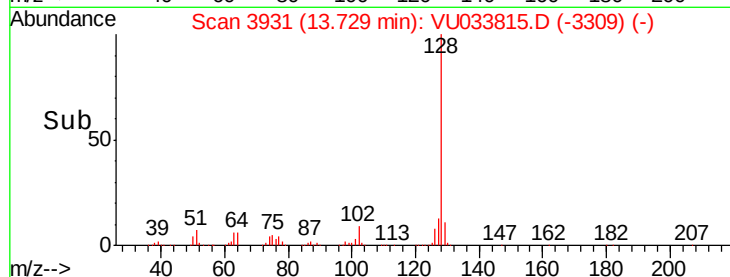
129 10.6 8.6 12.8



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: 53.883 ug/L

RT: 13.97 min Scan# 4007

Delta R.T. -0.00 min

Lab File: VU033815.D

Acq: 15 Aug 2019 17:00

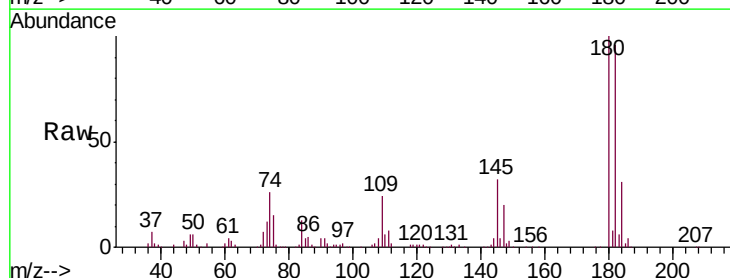
Tgt Ion:180 Resp: 248882

Ion Ratio Lower Upper

180 100

182 97.1 75.9 113.9

145 31.7 24.5 36.7



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

