

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU121718\
 Data File : VU028739.D
 Acq On : 17 Dec 2018 23:33
 Operator : MD/SY
 Sample : VU1217WBSD02
 Misc : 5.0mL/MSVOA_U/WATER
 ALS Vial : 34 Sample Multiplier: 1

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1217WBSD02

Manual Integrations
 APPROVED

MMDadoda
 12/18/2018 11:31:32 AM

Quant Time: Dec 18 07:32:38 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U120618W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 07 00:39:42 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	4.98	168	74586	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	5.88	114	132118	50.00	ug/l	0.00
63) Chlorobenzene-d5	9.09	117	122121	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.48	152	56066	50.00	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.31	65	60500	53.15	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.30%	
35) Dibromofluoromethane	4.88	113	44938	54.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	108.10%	
50) Toluene-d8	7.57	98	171124	52.03	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.06%	
62) 4-Bromofluorobenzene	10.30	95	61401	49.95	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.90%	

Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.21	85	20279	20.285	ug/l	99
3) Chloromethane	1.33	50	34734	18.898	ug/l	99
4) Vinyl Chloride	1.40	62	27027	20.376	ug/l	100
5) Bromomethane	1.61	94	11291	21.132	ug/l	95
6) Chloroethane	1.69	64	15502	20.644	ug/l	97
7) Trichlorofluoromethane	1.88	101	28136	20.162	ug/l	98
8) Diethyl Ether	2.10	74	12731	19.499	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.29	101	17390	20.836	ug/l	97
10) Methyl Iodide	2.41	142	18072	27.596	ug/l	99
11) Tert butyl alcohol	2.83	59	28483	112.318	ug/l	98
12) 1,1-Dichloroethene	2.28	96	17412	20.968	ug/l	99
13) Acrolein	2.19	56	20380	100.810	ug/l	100
14) Allyl chloride	2.59	41	39604	20.160	ug/l	99
15) Acrylonitrile	2.94	53	77661	110.305	ug/l	100
16) Acetone	2.32	43	62082	83.584	ug/l	100
17) Carbon Disulfide	2.48	76	57882	19.348	ug/l	99
18) Methyl Acetate	2.62	43	46872	24.344	ug/l	96
19) Methyl tert-butyl Ether	3.00	73	67359	21.397	ug/l	100
20) Methylene Chloride	2.70	84	21511	19.646	ug/l	99
21) trans-1,2-Dichloroethene	2.98	96	19274	20.614	ug/l	98
22) Diisopropyl ether	3.57	45	84150	22.027	ug/l	97
23) Vinyl Acetate	3.52	43	334022	105.999	ug/l	99
24) 1,1-Dichloroethane	3.44	63	42044	21.024	ug/l	98
25) 2-Butanone	4.26	43	104400	102.853	ug/l	100
26) 2,2-Dichloropropane	4.23	77	28324	17.875	ug/l	100
27) cis-1,2-Dichloroethene	4.23	96	21570	20.382	ug/l	99
28) Bromochloromethane	4.55	49	20391	22.430	ug/l	97
29) Tetrahydrofuran	4.64	42	74175	113.783	ug/l	97
30) Chloroform	4.67	83	37434	21.478	ug/l	96
31) Cyclohexane	4.99	56	41430	20.524	ug/l	99
32) 1,1,1-Trichloroethane	4.91	97	30863	21.321	ug/l	97
36) 1,1-Dichloropropene	5.13	75	28386	19.634	ug/l	98
37) Ethyl Acetate	4.38	43	38991	20.863	ug/l	99
38) Carbon Tetrachloride	5.13	117	24050	20.639	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	6.41	83	32739	18.562	ug/l	98
40) Benzene	5.39	78	89328	20.979	ug/l	96
41) Methacrylonitrile	4.54	41	22253	21.742	ug/l	98
42) 1,2-Dichloroethane	5.40	62	31346	21.031	ug/l	99
43) Isopropyl Acetate	5.55	43	65067	22.011	ug/l	99
44) Trichloroethene	6.19	130	19406	20.497	ug/l	98
45) 1,2-Dichloropropane	6.43	63	26170	21.856	ug/l	97
46) Dibromomethane	6.56	93	15218	21.420	ug/l	97
47) Bromodichloromethane	6.76	83	29473	21.319	ug/l	98
48) Methyl methacrylate	6.62	41	31944	21.730	ug/l	98
49) 1,4-Dioxane	6.61	88	10059	433.356	ug/l	93
51) 4-Methyl-2-Pentanone	7.46	43	203659	109.234	ug/l	99
52) Toluene	7.64	92	52362	20.895	ug/l	99
53) t-1,3-Dichloropropene	7.88	75	33071	20.085	ug/l	98
54) cis-1,3-Dichloropropene	7.27	75	36384	20.368	ug/l	98
55) 1,1,2-Trichloroethane	8.07	97	21512	21.716	ug/l	97
56) Ethyl methacrylate	8.02	69	35320	20.821	ug/l	99
57) 1,3-Dichloropropane	8.24	76	38399	20.882	ug/l	99
58) 2-Chloroethyl Vinyl ether	7.12	63	91019	104.757	ug/l	100
59) 2-Hexanone	8.36	43	155183	105.012	ug/l	99
60) Dibromochloromethane	8.48	129	20718	21.362	ug/l	98
61) 1,2-Dibromoethane	8.58	107	22069	21.245	ug/l	100
64) Tetrachloroethene	8.22	164	16639	20.427	ug/l	97
65) Chlorobenzene	9.12	112	52507	20.177	ug/l	98
66) 1,1,1,2-Tetrachloroethane	9.21	131	18249	21.961	ug/l	99
67) Ethyl Benzene	9.25	91	96135	20.096	ug/l	99
68) m/p-Xylenes	9.37	106	70349	40.414	ug/l	98
69) o-Xylene	9.78	106	34123	20.172	ug/l	99
70) Styrene	9.79	104	56109	20.043	ug/l	100
71) Bromoform	9.96	173	15298	21.640	ug/l #	99
73) Isopropylbenzene	10.16	105	90621	21.064	ug/l	99
74) N-amyl acetate	10.01	43	55152	22.224	ug/l	99
75) 1,1,2,2-Tetrachloroethane	10.46	83	38154	23.087	ug/l	99
76) 1,2,3-Trichloropropane	10.49	75	33401m	23.330	ug/l	
77) Bromobenzene	10.45	156	22253	22.117	ug/l	99
78) n-propylbenzene	10.58	91	110749	20.717	ug/l	99
79) 2-Chlorotoluene	10.66	91	66983	21.753	ug/l	99
80) 1,3,5-Trimethylbenzene	10.77	105	76575	21.503	ug/l	98
81) trans-1,4-Dichloro-2-buten	10.51	75	12967m	22.560	ug/l	
82) 4-Chlorotoluene	10.77	91	76356	20.925	ug/l	100
83) tert-Butylbenzene	11.10	119	72630	21.160	ug/l	100
84) 1,2,4-Trimethylbenzene	11.15	105	78047	21.266	ug/l	100
85) sec-Butylbenzene	11.32	105	91301	20.705	ug/l	98
86) p-Isopropyltoluene	11.48	119	74622	19.921	ug/l	99
87) 1,3-Dichlorobenzene	11.41	146	38550	20.291	ug/l	100
88) 1,4-Dichlorobenzene	11.51	146	39096	19.889	ug/l	98
89) n-Butylbenzene	11.89	91	71709	18.916	ug/l	99
90) Hexachloroethane	12.14	117	12504	22.085	ug/l	99
91) 1,2-Dichlorobenzene	11.88	146	39047	20.546	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	12.66	75	8260	23.086	ug/l	96

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ClientSampleId :
VU1217WBSD02

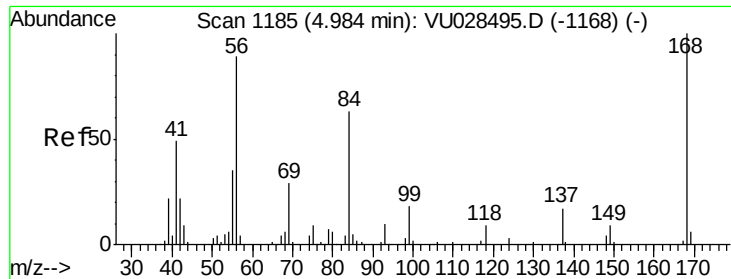
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.50	180	24154	19.027	ug/l	100
94) Hexachlorobutadiene	13.69	225	11551	18.555	ug/l	98
95) Naphthalene	13.74	128	86476	18.963	ug/l	99
96) 1,2,3-Trichlorobenzene	13.99	180	25974	20.072	ug/l	95

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.98 min Scan# 1185

Delta R.T. -0.00 min

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MSVOA_U

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VU1217WBSD02

Tgt Ion: 168 Resp: 74586

Ion Ratio Lower Upper

168 100

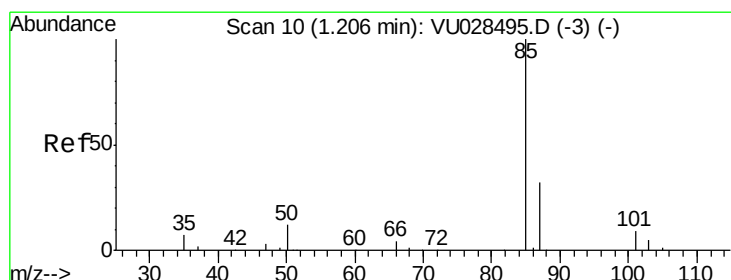
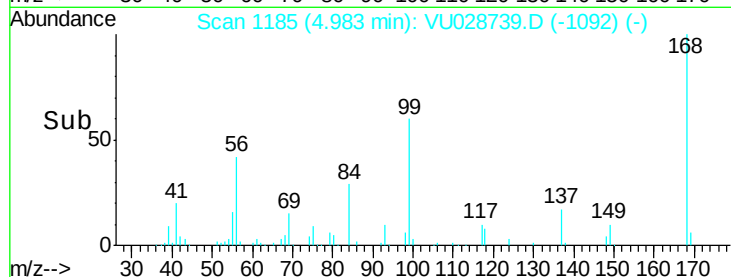
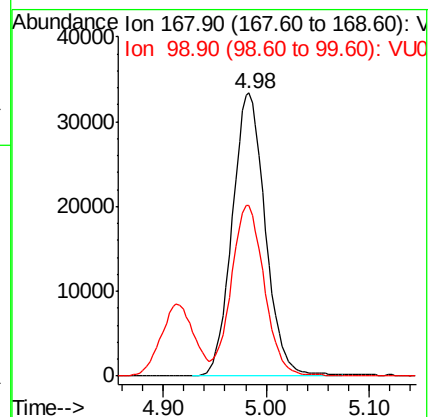
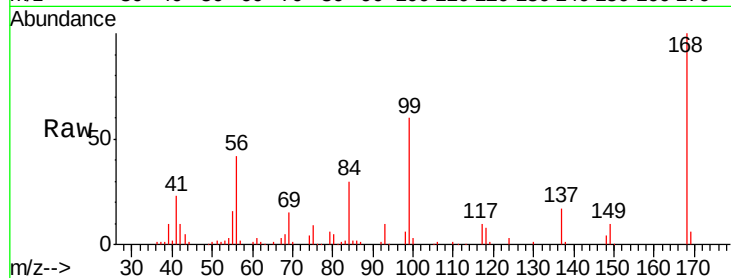
99 60.4 46.6 69.8

Manual Integrations

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#2

Dichlorodifluoromethane

Concen: 20.285 ug/l

RT: 1.21 min Scan# 10

Delta R.T. -0.00 min

Lab File: VU028739.D

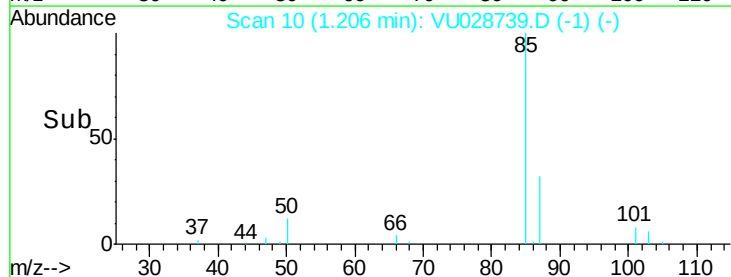
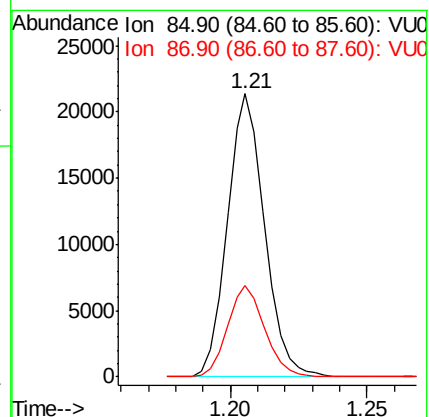
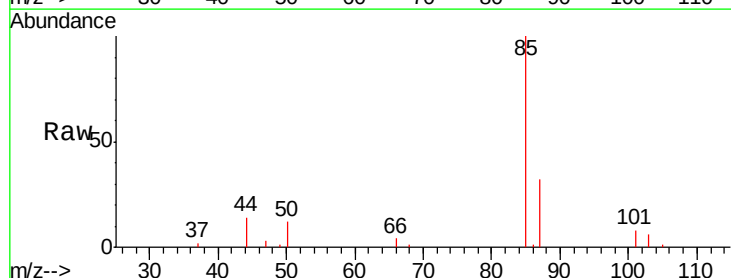
Acq: 17 Dec 2018 23:33

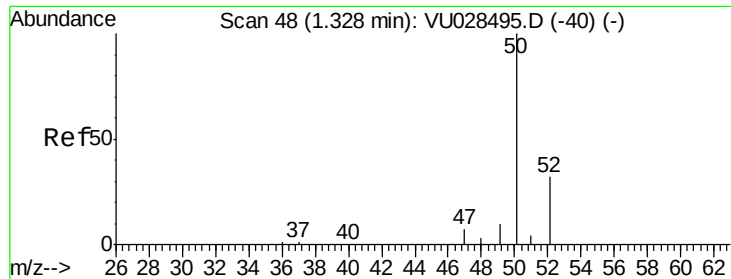
Tgt Ion: 85 Resp: 20279

Ion Ratio Lower Upper

85 100

87 32.2 15.9 47.6





#3

Chloromethane

Concen: 18.898 ug/l

RT: 1.33 min Scan# 48

Delta R.T. -0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Instrument :

MSVOA_U

ClientSampleId :

VU1217WBSD02

Tgt Ion: 50 Resp: 34734

Ion Ratio Lower Upper

50 100

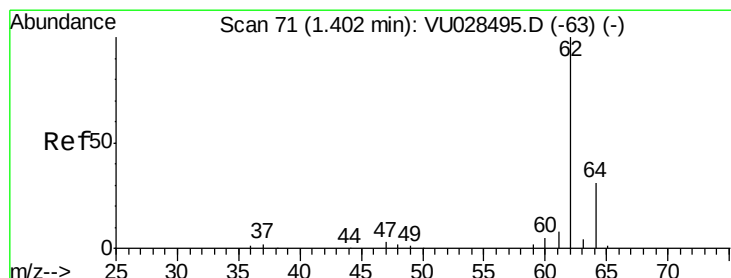
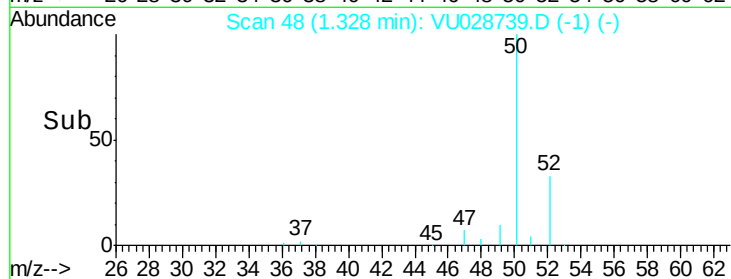
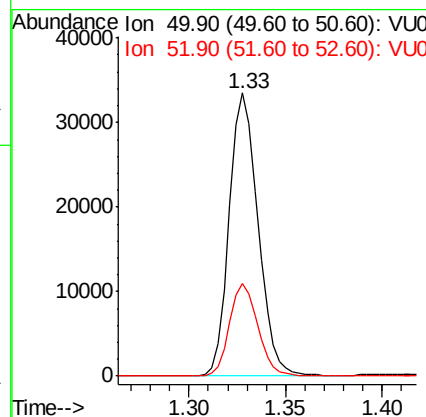
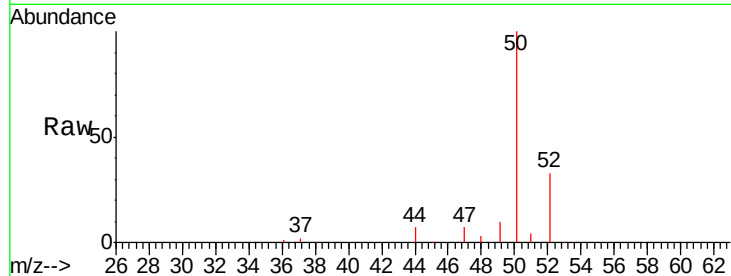
52 32.5 25.5 38.3

Manual Integrations

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#4

Vinyl Chloride

Concen: 20.376 ug/l

RT: 1.40 min Scan# 71

Delta R.T. -0.00 min

Lab File: VU028739.D

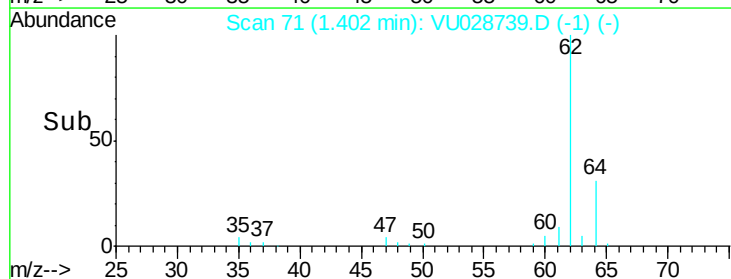
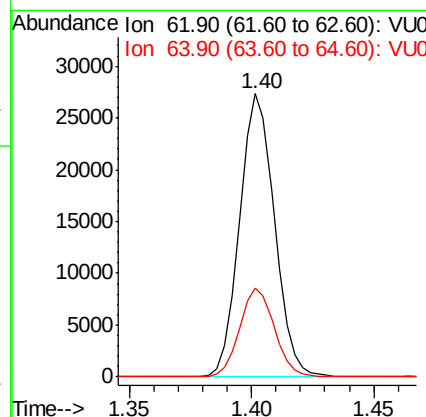
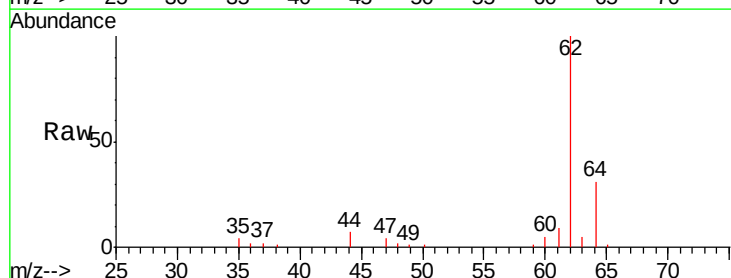
Acq: 17 Dec 2018 23:33

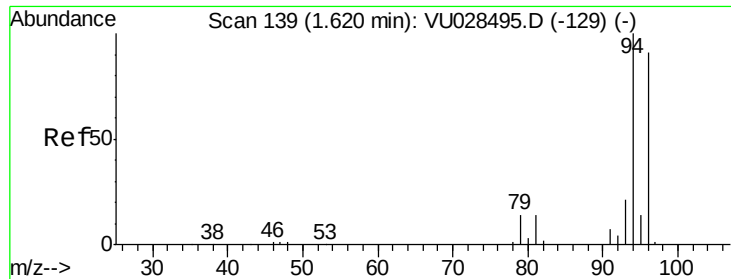
Tgt Ion: 62 Resp: 27027

Ion Ratio Lower Upper

62 100

64 31.5 25.1 37.7





#5

Bromomethane

Concen: 21.132 ug/l

RT: 1.61 min Scan# 137

Delta R.T. -0.01 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

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VU1217WBSD02

Tgt Ion: 94 Resp: 11291

Ion Ratio Lower Upper

94 100

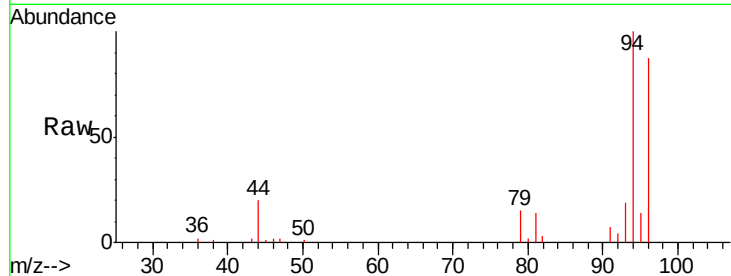
96 86.9 73.2 109.8

Manual Integrations

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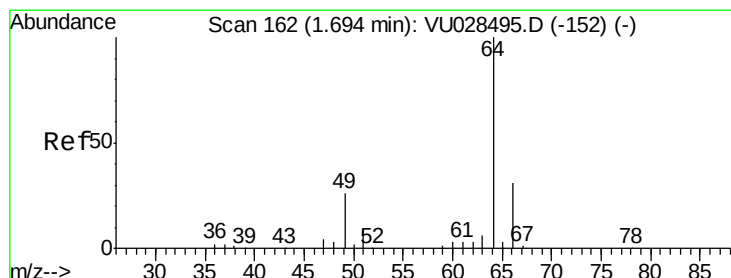
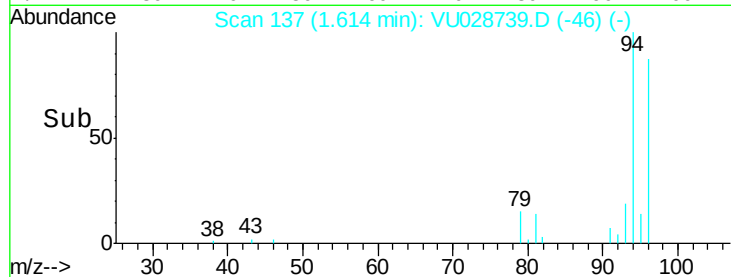
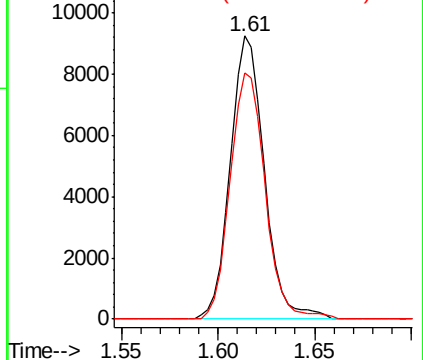
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Abundance Ion 93.90 (93.60 to 94.60): VU0

Ion 95.90 (95.60 to 96.60): VU0



#6

Chloroethane

Concen: 20.644 ug/l

RT: 1.69 min Scan# 161

Delta R.T. -0.00 min

Lab File: VU028739.D

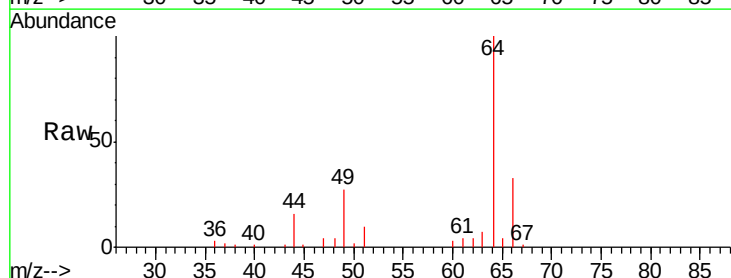
Acq: 17 Dec 2018 23:33

Tgt Ion: 64 Resp: 15502

Ion Ratio Lower Upper

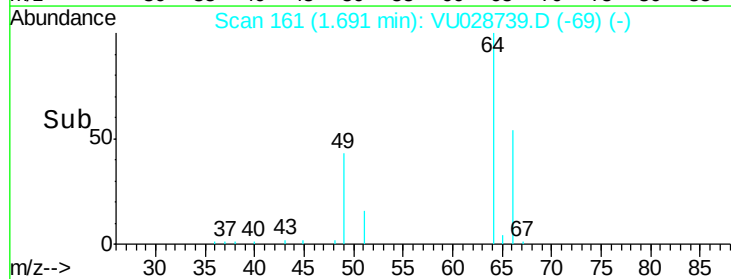
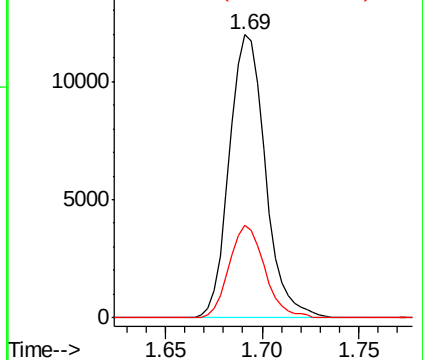
64 100

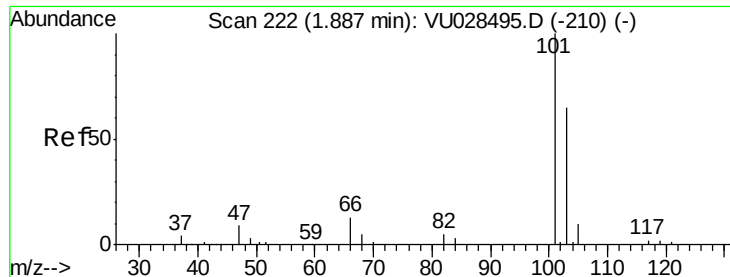
66 32.8 25.0 37.6



Abundance Ion 63.90 (63.60 to 64.60): VU0

Ion 65.90 (65.60 to 66.60): VU0





#7

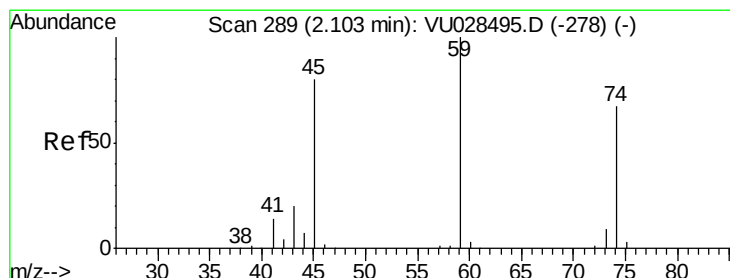
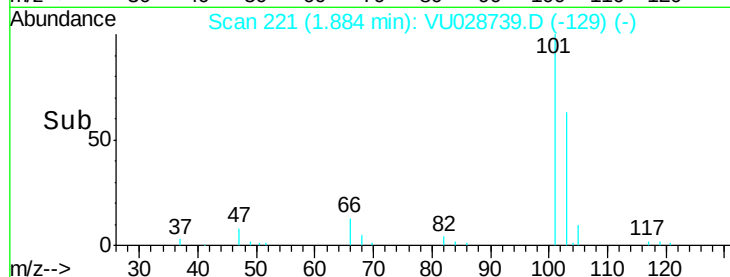
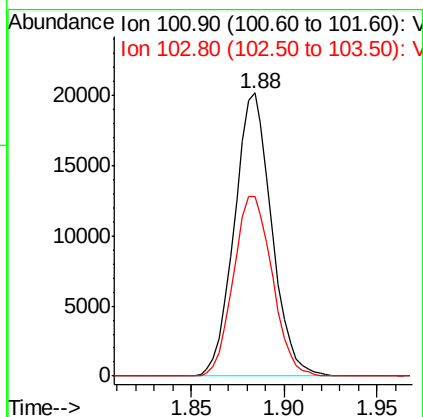
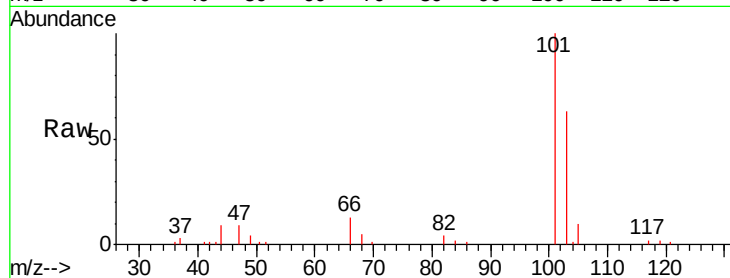
Trichlorofluoromethane
Concen: 20.162 ug/l
RT: 1.88 min Scan# 221
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

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VU1217WBSD02

Tgt Ion: 101 Resp: 28136
Ion Ratio Lower Upper
101 100
103 63.5 52.3 78.5

Manual Integrations
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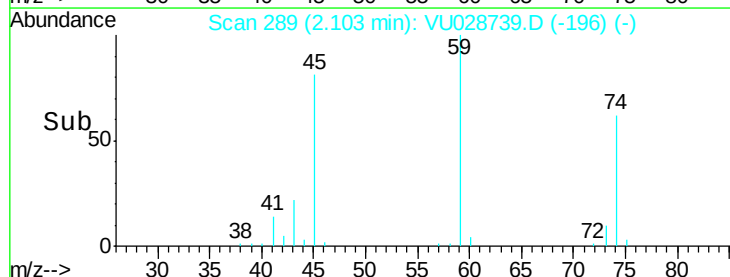
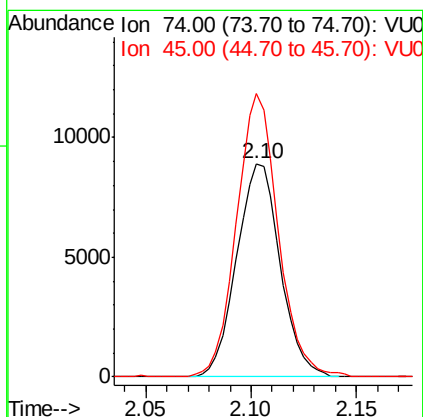
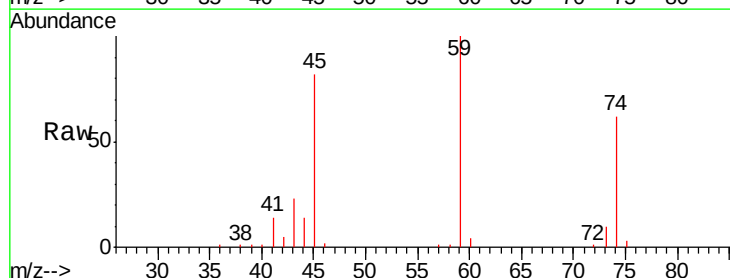
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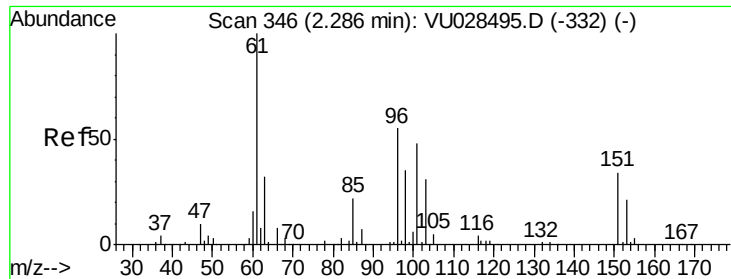


#8

Diethyl Ether
Concen: 19.499 ug/l
RT: 2.10 min Scan# 289
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Tgt Ion: 74 Resp: 12731
Ion Ratio Lower Upper
74 100
45 127.8 59.7 179.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.836 ug/l

RT: 2.29 min Scan# 346

Delta R.T. -0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Instrument :

MSVOA_U

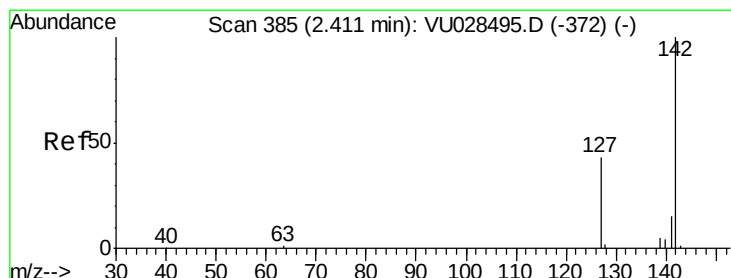
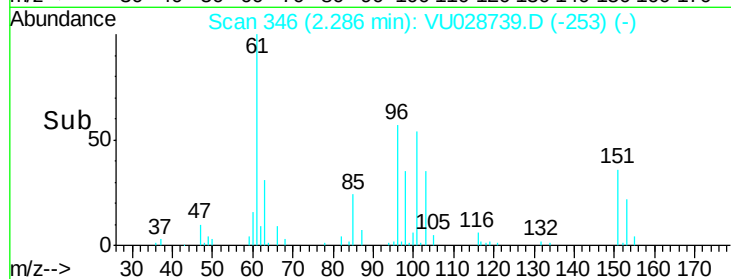
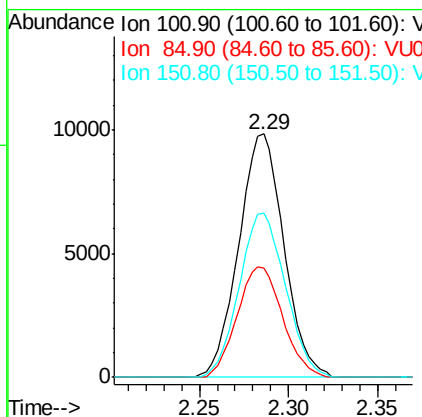
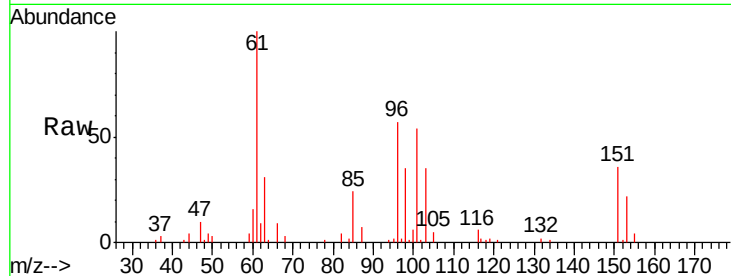
ClientSampleId :

VU1217WBSD02

Tgt Ion:	101	Resp:	17390
Ion Ratio	Lower	Upper	
101	100		
85	45.6	36.4	54.6
151	69.0	58.2	87.2

Manual Integrations
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#10

Methyl Iodide

Concen: 27.596 ug/l

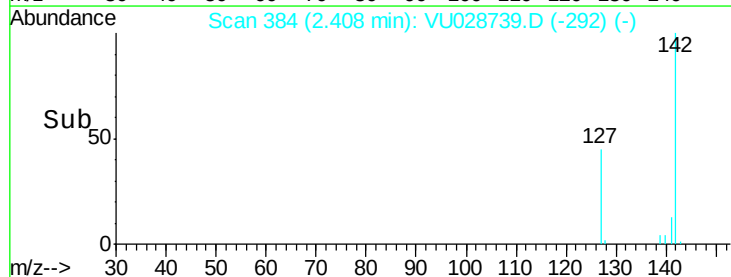
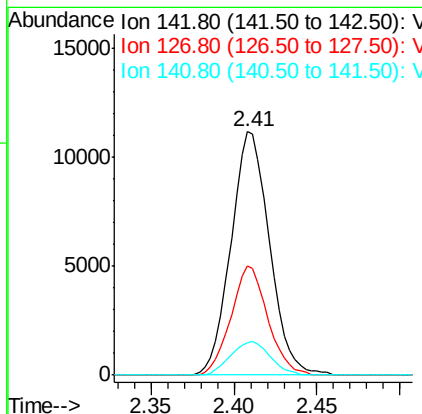
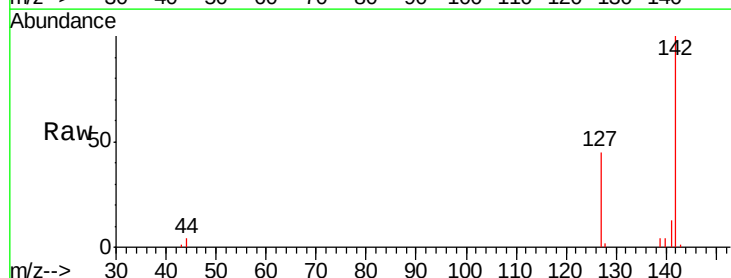
RT: 2.41 min Scan# 384

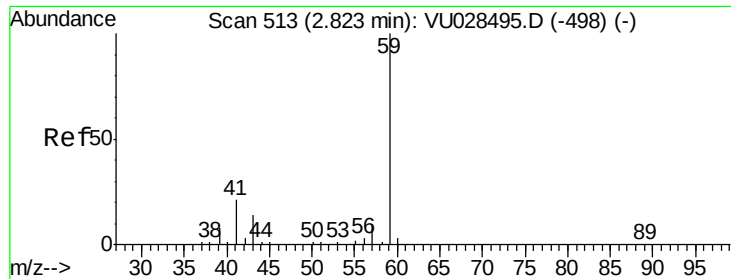
Delta R.T. -0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Tgt Ion:	142	Resp:	18072
Ion Ratio	Lower	Upper	
142	100		
127	42.9	33.5	50.3
141	14.1	11.2	16.8





#11

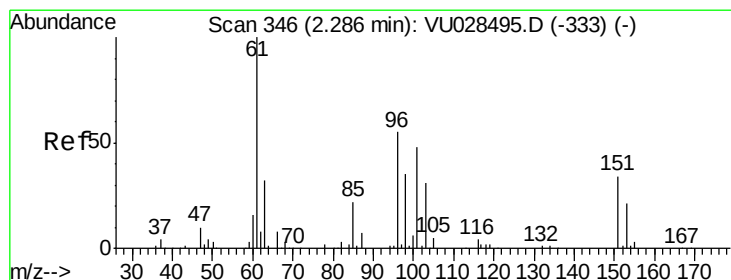
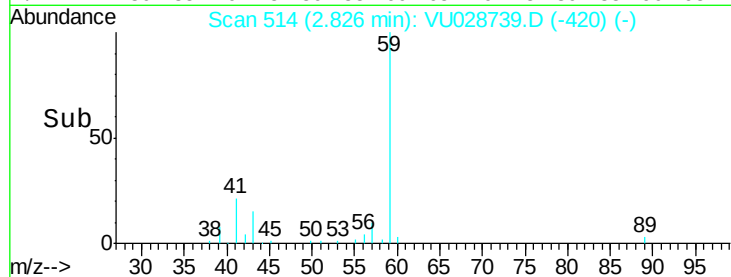
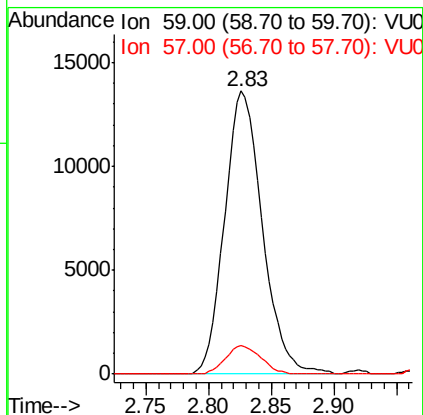
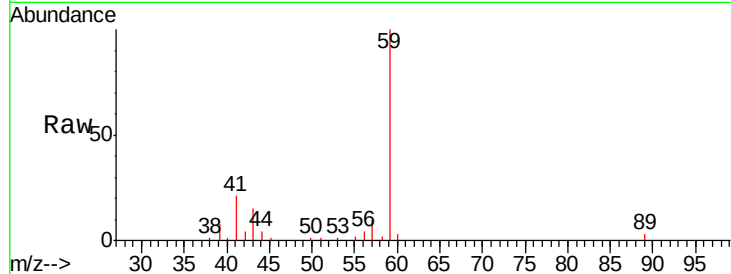
Tert butyl alcohol
Concen: 112.318 ug/l
RT: 2.83 min Scan# 514
Delta R.T. 0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Instrument :
MSVOA_U
ClientSampleId :
VU1217WBSD02

Tgt Ion	Ratio	Lower	Upper
59	100		
57	9.4	8.0	12.0

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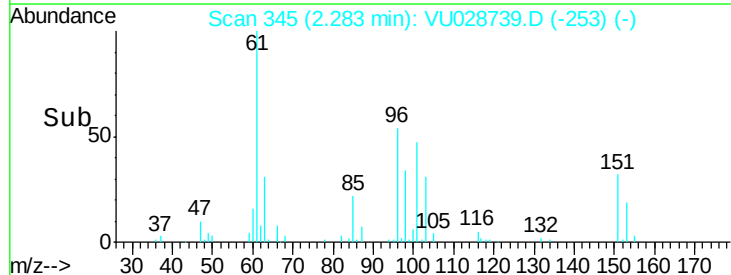
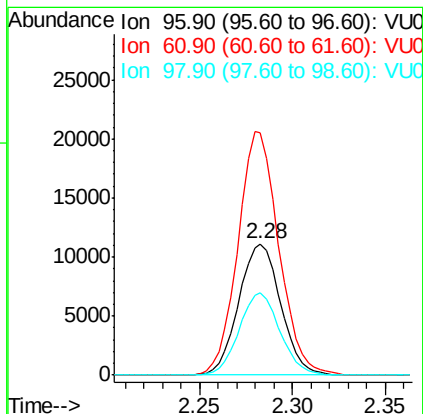
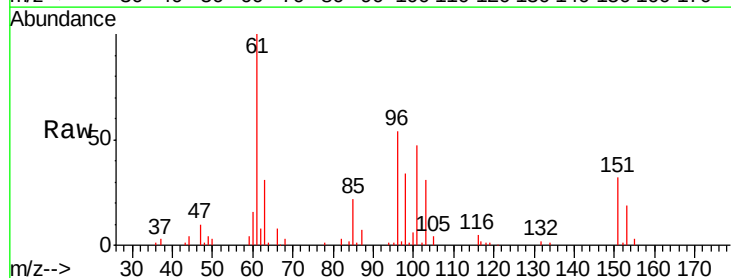
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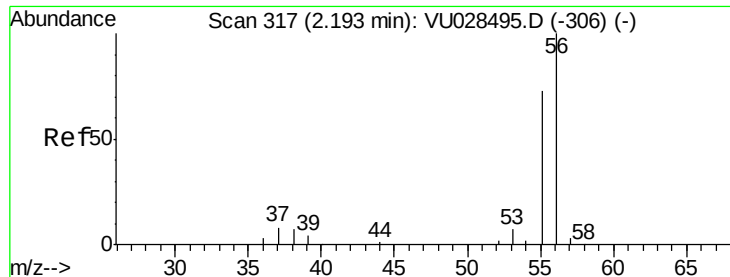


#12

1,1-Dichloroethene
Concen: 20.968 ug/l
RT: 2.28 min Scan# 345
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Tgt Ion	Ratio	Lower	Upper
96	100		
61	184.3	146.4	219.6
98	63.0	51.8	77.8





#13

Acrolein

Concen: 100.810 ug/l

RT: 2.19 min Scan# 317

Delta R.T. -0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Instrument :

MSVOA_U

ClientSampleId :

VU1217WBSD02

Tgt Ion: 56 Resp: 20380

Ion Ratio Lower Upper

56 100

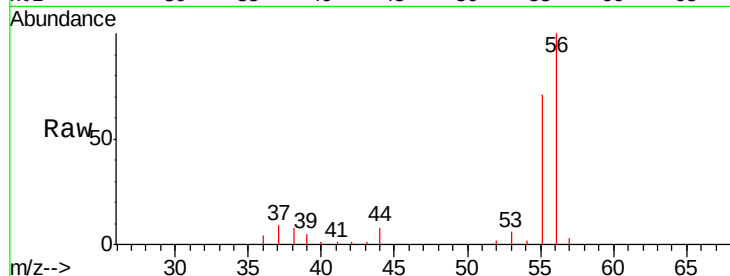
55 72.3 57.5 86.3

Manual Integrations

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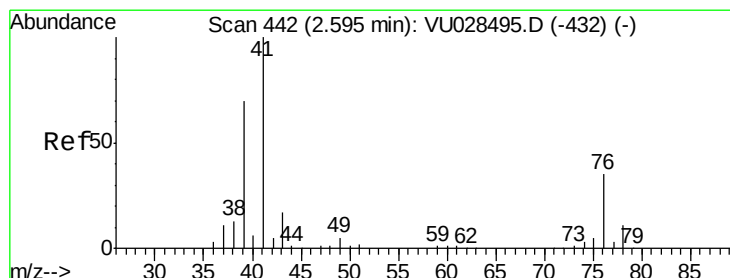
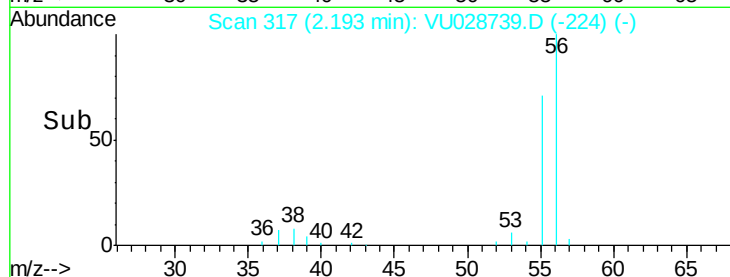
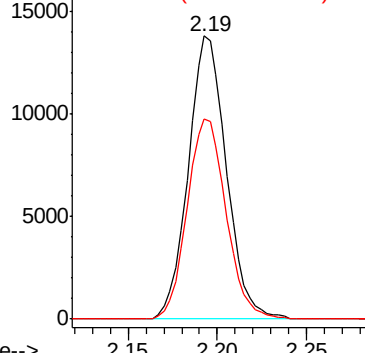
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Abundance Ion 56.00 (55.70 to 56.70): VU0

Ion 55.00 (54.70 to 55.70): VU0



#14

Allyl chloride

Concen: 20.160 ug/l

RT: 2.59 min Scan# 441

Delta R.T. -0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

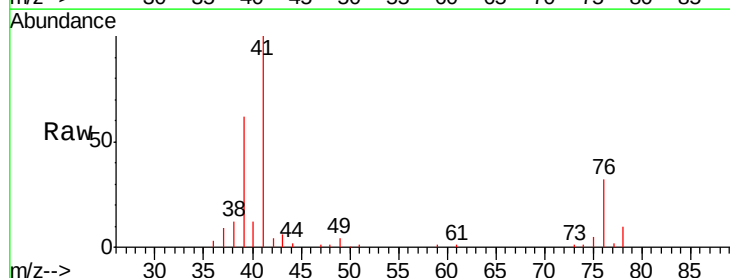
Tgt Ion: 41 Resp: 39604

Ion Ratio Lower Upper

41 100

39 63.0 50.8 76.2

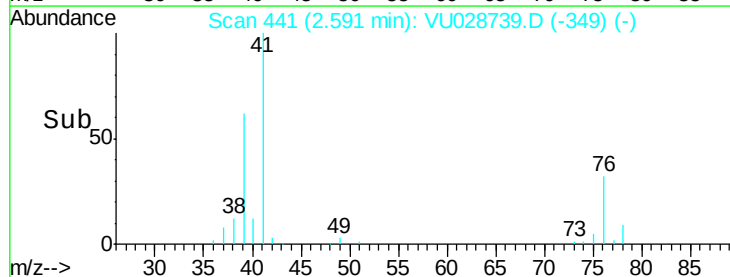
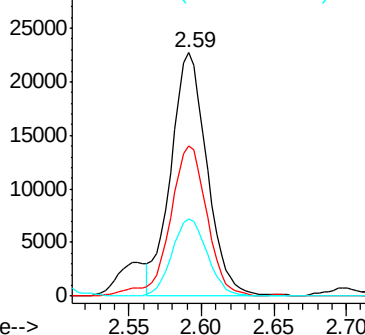
76 30.8 24.8 37.2

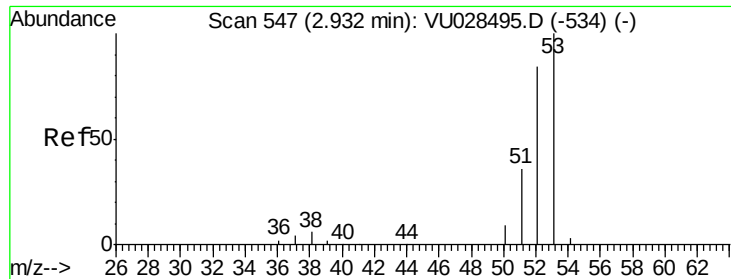


Abundance Ion 41.00 (40.70 to 41.70): VU0

Ion 39.00 (38.70 to 39.70): VU0

Ion 75.90 (75.60 to 76.60): VU0





#15

Acrylonitrile

Concen: 110.305 ug/l

RT: 2.94 min Scan# 548

Delta R.T. 0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Instrument :

MSVOA_U

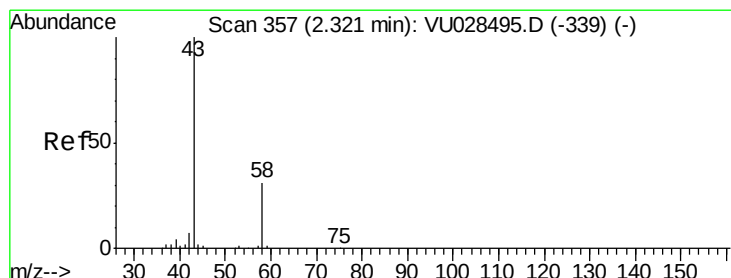
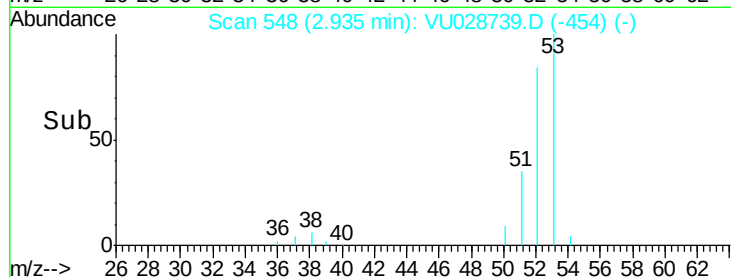
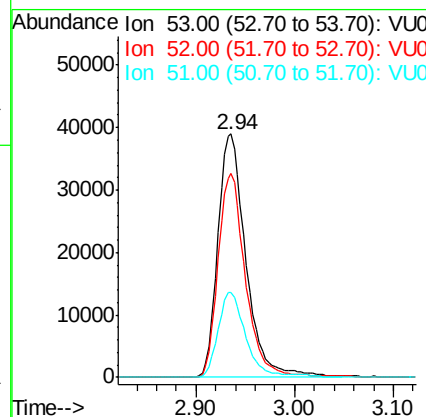
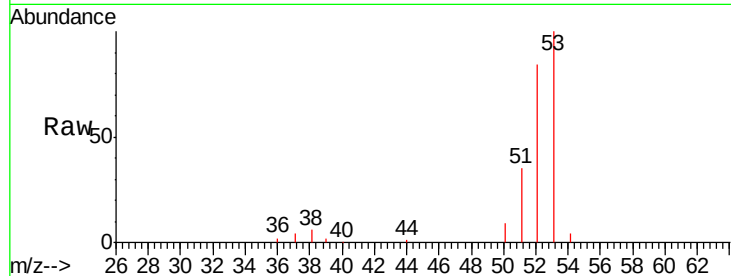
ClientSampleId :

VU1217WBSD02

Tgt Ion:	53	Resp:	77661
Ion	Ratio	Lower	Upper
53	100		
52	82.4	66.1	99.1
51	35.0	28.1	42.1

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#16

Acetone

Concen: 83.584 ug/l

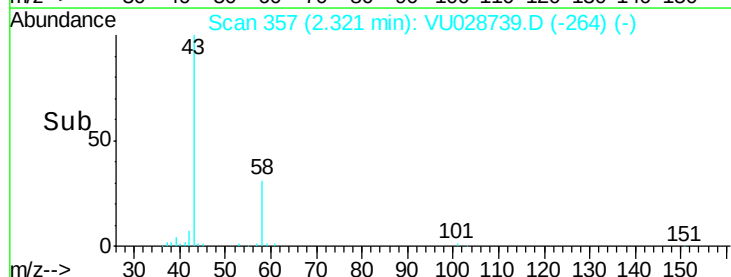
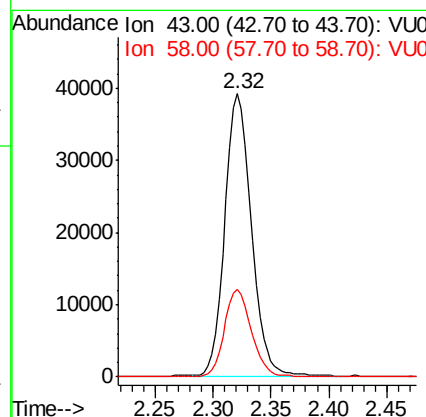
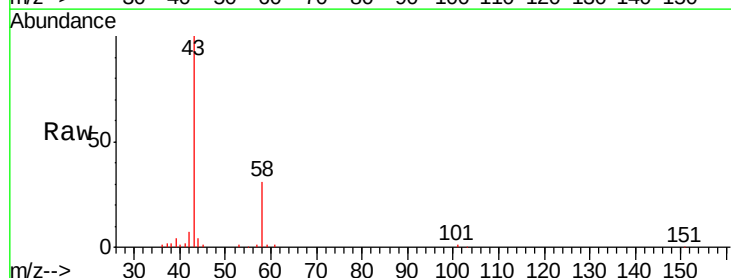
RT: 2.32 min Scan# 357

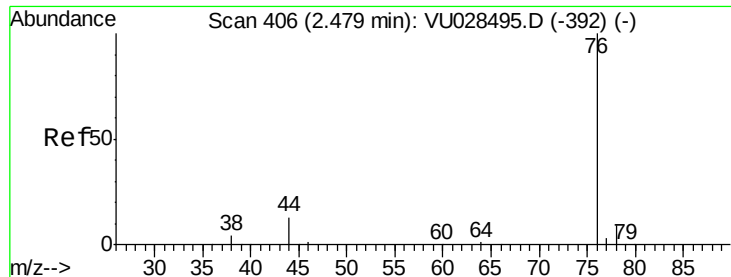
Delta R.T. -0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Tgt Ion:	43	Resp:	62082
Ion	Ratio	Lower	Upper
43	100		
58	30.9	24.6	37.0





#17

Carbon Disulfide

Concen: 19.348 ug/l

RT: 2.48 min Scan# 405

Delta R.T. -0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Instrument :

MSVOA_U

ClientSampleId :

VU1217WBSD02

Tgt Ion: 76 Resp: 57882

Ion Ratio Lower Upper

76 100

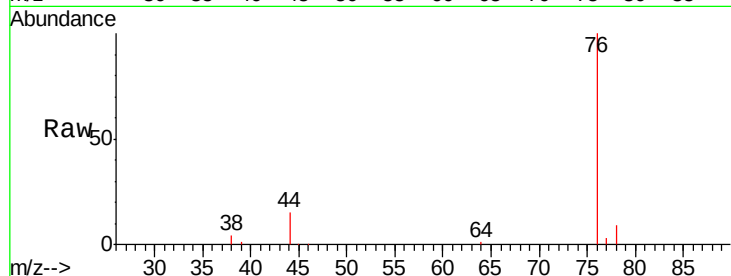
78 9.2 7.2 10.8

Manual Integrations

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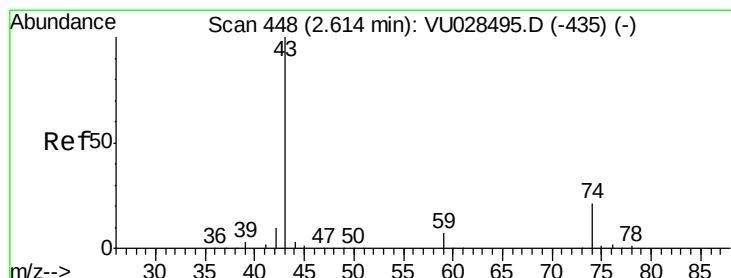
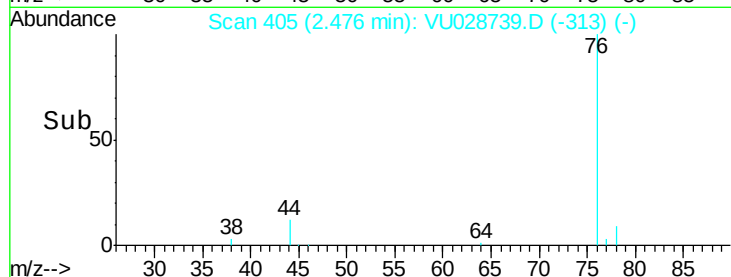
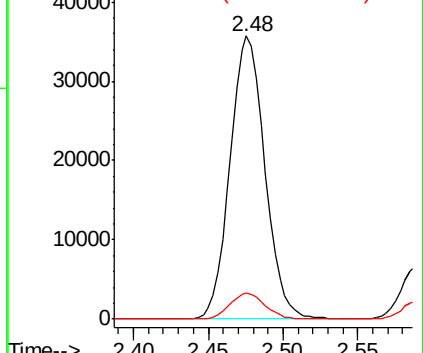
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Abundance Ion 75.90 (75.60 to 76.60): VU0

Ion 77.90 (77.60 to 78.60): VU0



#18

Methyl Acetate

Concen: 24.344 ug/l

RT: 2.62 min Scan# 449

Delta R.T. 0.00 min

Lab File: VU028739.D

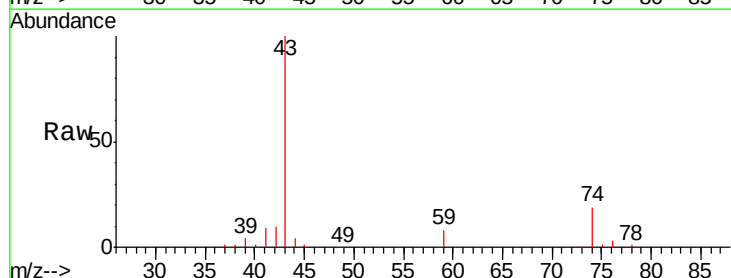
Acq: 17 Dec 2018 23:33

Tgt Ion: 43 Resp: 46872

Ion Ratio Lower Upper

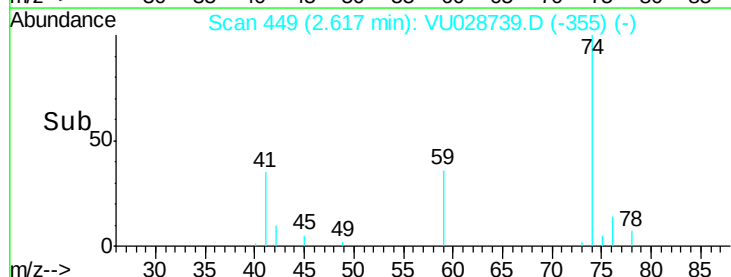
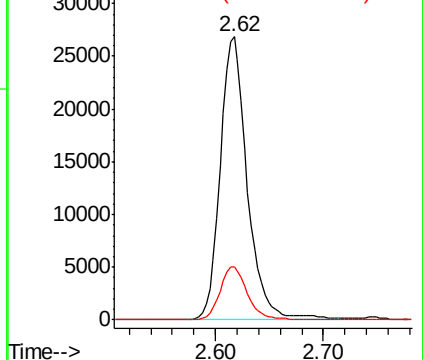
43 100

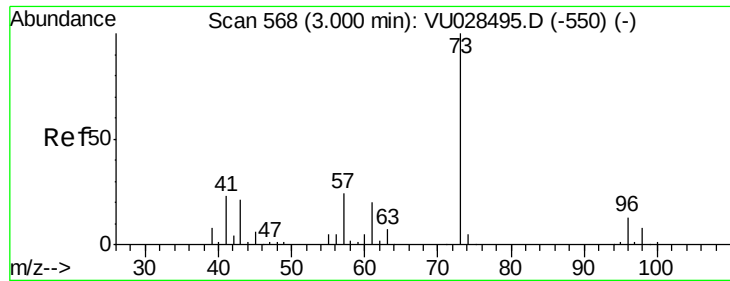
74 18.9 16.4 24.6



Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 74.00 (73.70 to 74.70): VU0





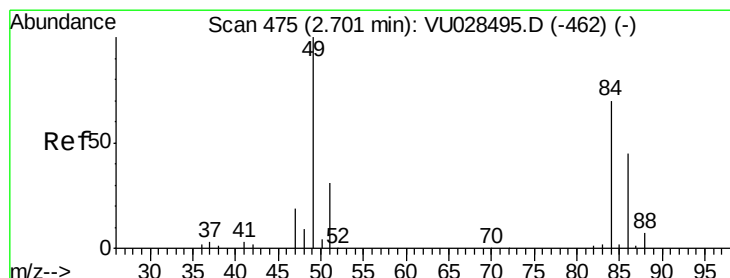
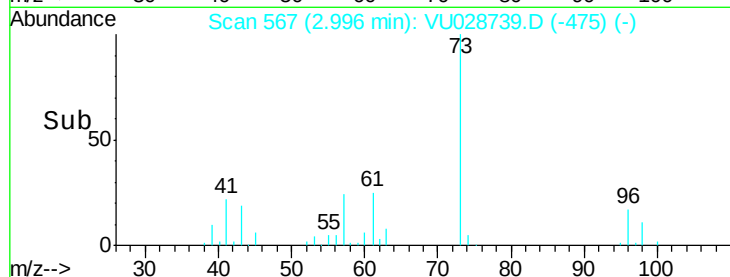
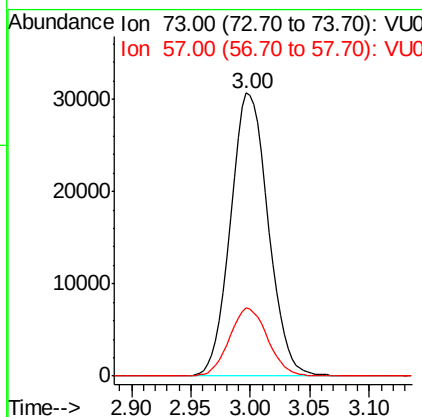
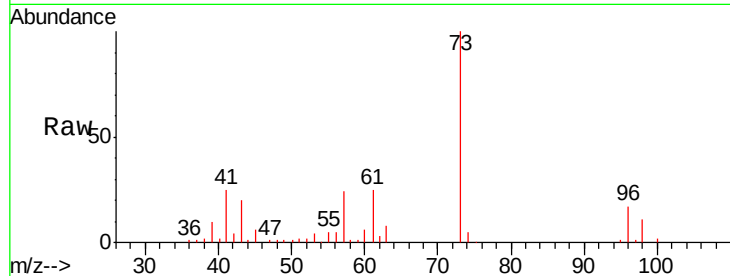
#19
Methyl tert-butyl Ether
Concen: 21.397 ug/l
RT: 3.00 min Scan# 567
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Instrument :
MSVOA_U
ClientSampleId :
VU1217WBSD02

Tgt Ion: 73 Resp: 67359
Ion Ratio Lower Upper
73 100
57 24.1 19.4 29.2

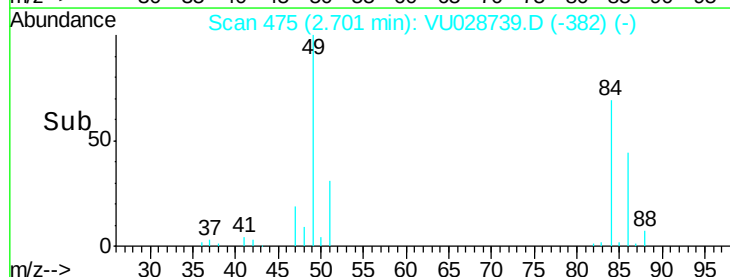
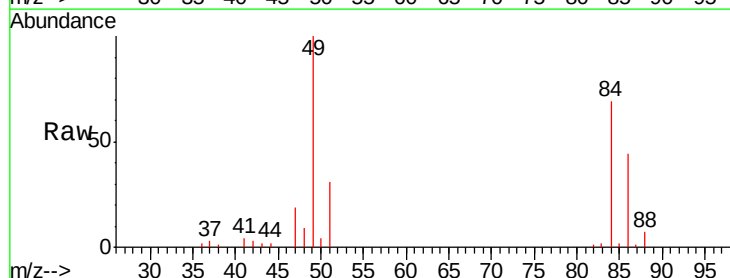
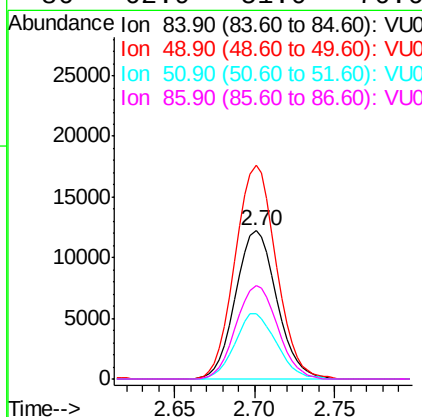
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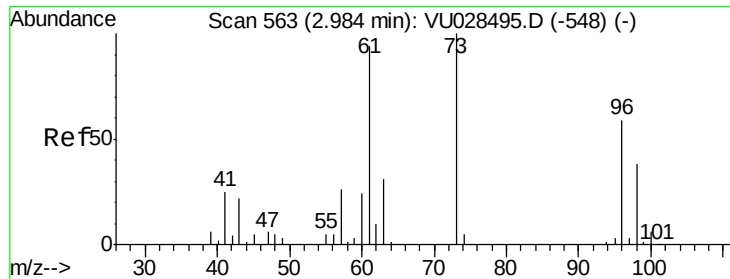
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#20
Methylene Chloride
Concen: 19.646 ug/l
RT: 2.70 min Scan# 475
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Tgt Ion: 84 Resp: 21511
Ion Ratio Lower Upper
84 100
49 144.2 114.0 171.0
51 44.0 35.1 52.7
86 62.9 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 20.614 ug/l

RT: 2.98 min Scan# 562

Delta R.T. -0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Instrument :

MSVOA_U

ClientSampleId :

VU1217WBSD02

Tgt Ion: 96 Resp: 19274

Ion Ratio Lower Upper

96 100

61 158.0 127.0 190.4

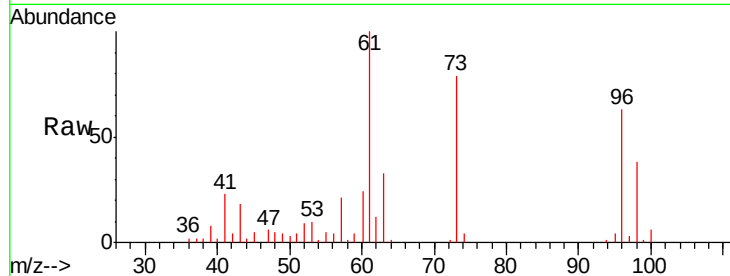
98 60.1 51.9 77.9

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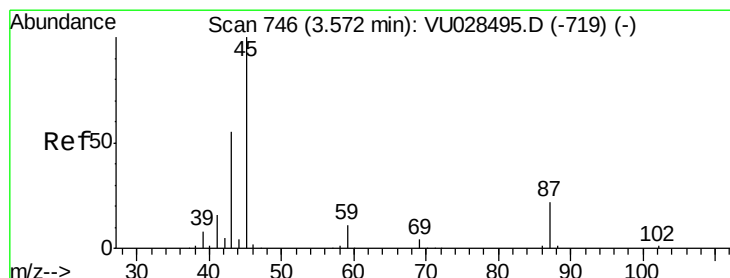
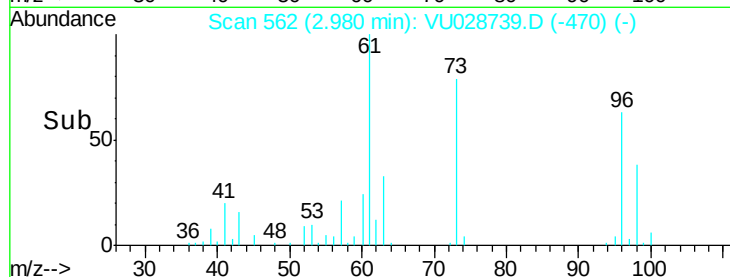
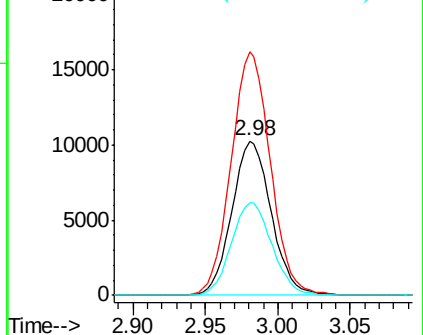
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Abundance Ion 95.90 (95.60 to 96.60): VU0

Ion 60.90 (60.60 to 61.60): VU0

Ion 97.90 (97.60 to 98.60): VU0



#22

Diisopropyl ether

Concen: 22.027 ug/l

RT: 3.57 min Scan# 746

Delta R.T. -0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Tgt Ion: 45 Resp: 84150

Ion Ratio Lower Upper

45 100

43 60.0 45.3 67.9

87 22.2 17.6 26.4

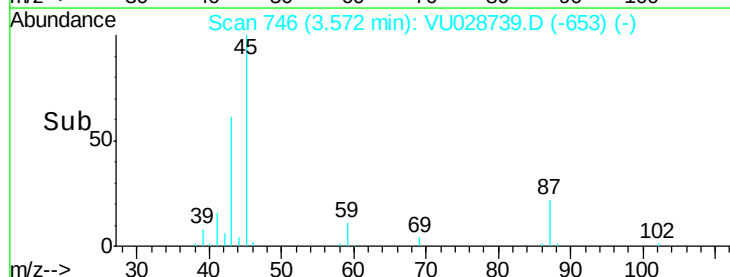
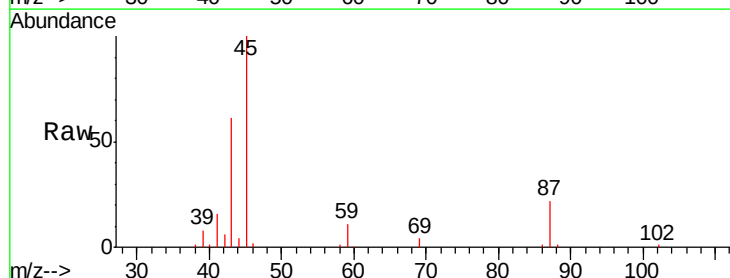
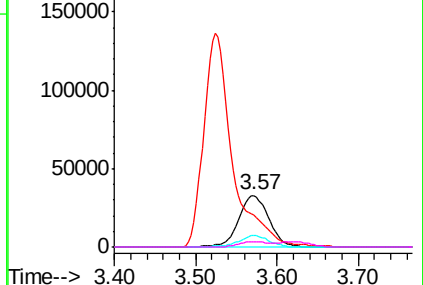
59 10.8 8.8 13.2

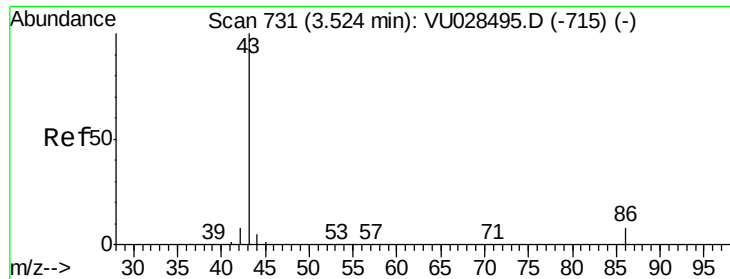
Abundance Ion 45.00 (44.70 to 45.70): VU0

Ion 43.00 (42.70 to 43.70): VU0

Ion 87.00 (86.70 to 87.70): VU0

Ion 59.00 (58.70 to 59.70): VU0





#23

Vinyl Acetate

Concen: 105.999 ug/l

RT: 3.52 min Scan# 731

Delta R.T. -0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Instrument :

MSVOA_U

ClientSampleId :

VU1217WBSD02

Tgt Ion: 43 Resp: 334022

Ion Ratio Lower Upper

43 100

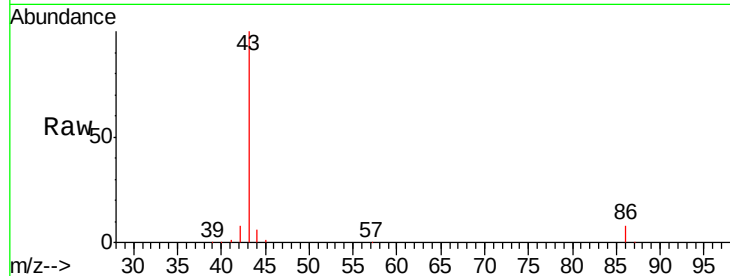
86 8.3 6.8 10.2

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Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 86.00 (85.70 to 86.70): VU0

150000

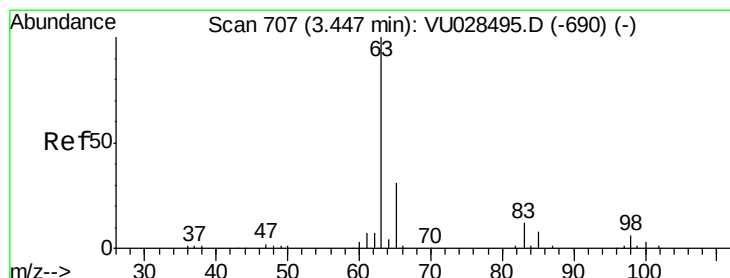
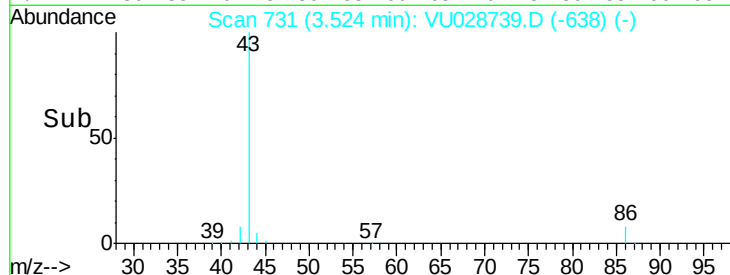
100000

50000

0

3.40 3.50 3.60 3.70

Time-->



#24

1,1-Dichloroethane

Concen: 21.024 ug/l

RT: 3.44 min Scan# 706

Delta R.T. -0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

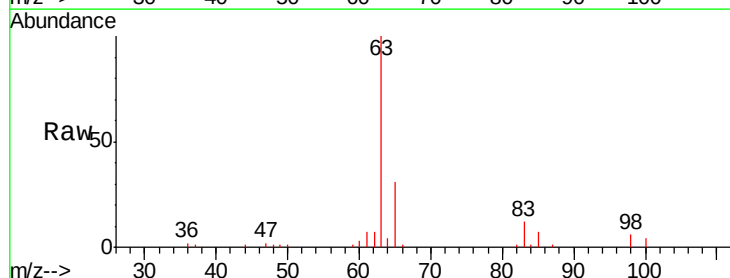
Tgt Ion: 63 Resp: 42044

Ion Ratio Lower Upper

63 100

98 5.5 3.0 9.2

100 4.0 1.7 5.1



Abundance Ion 62.90 (62.60 to 63.60): VU0

Ion 97.90 (97.60 to 98.60): VU0

Ion 99.90 (99.60 to 100.60): VU0

25000

20000

15000

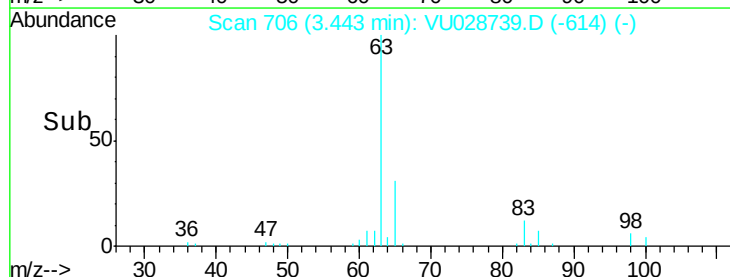
10000

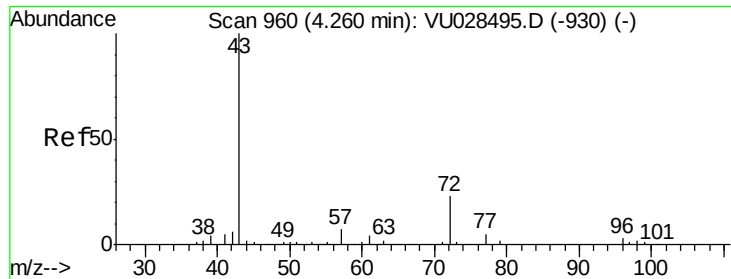
5000

0

3.35 3.40 3.45 3.50 3.55

Time-->





#25

2-Butanone

Concen: 102.853 ug/l

RT: 4.26 min Scan# 961

Delta R.T. 0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Instrument :

MSVOA_U

ClientSampleId :

VU1217WBSD02

Tgt Ion: 43 Resp: 104400

Ion Ratio Lower Upper

43 100

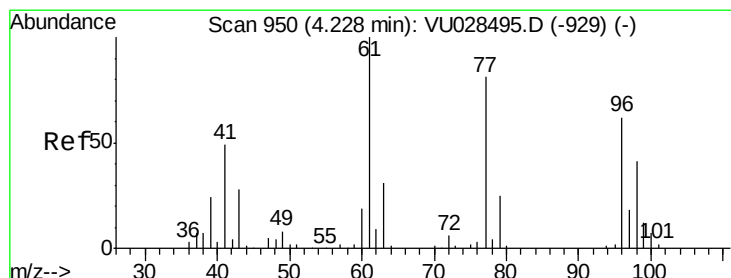
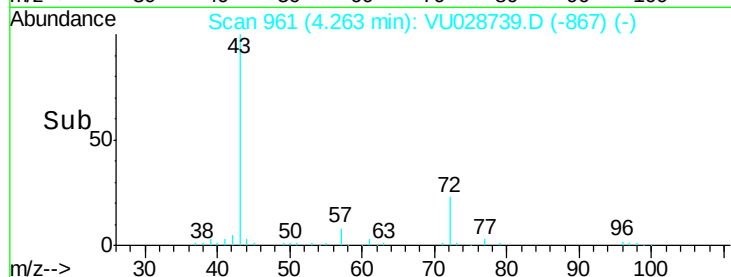
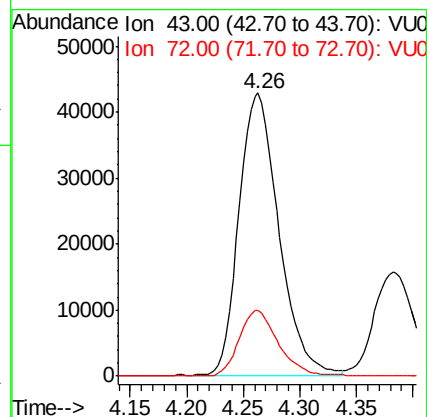
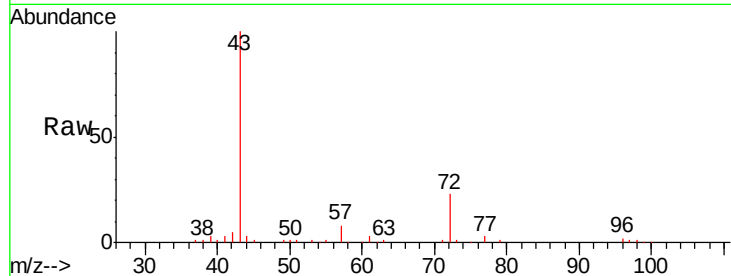
72 23.3 18.6 28.0

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 17.875 ug/l

RT: 4.23 min Scan# 950

Delta R.T. -0.00 min

Lab File: VU028739.D

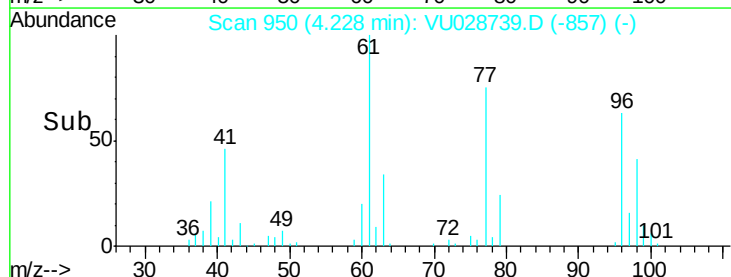
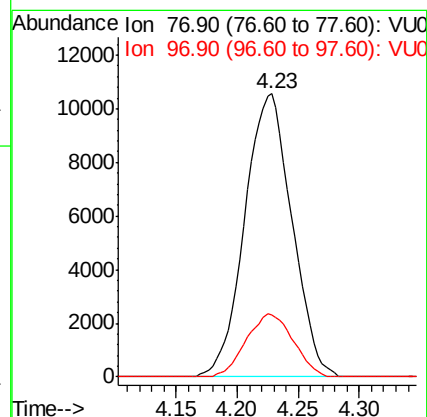
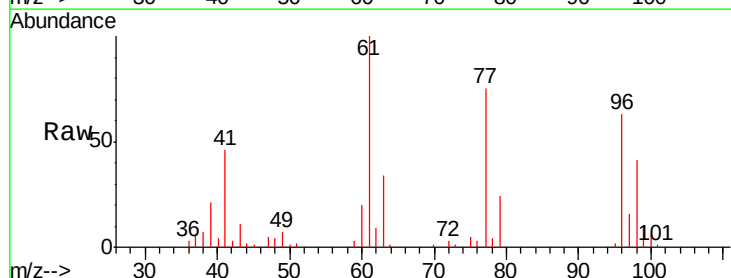
Acq: 17 Dec 2018 23:33

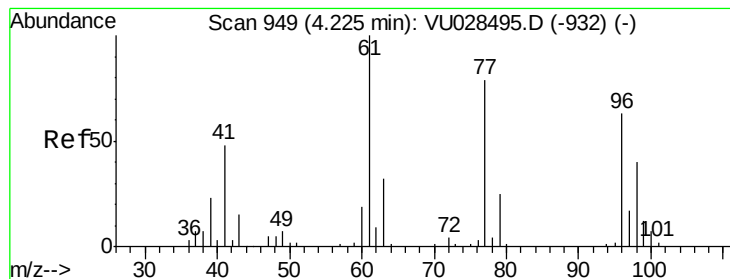
Tgt Ion: 77 Resp: 28324

Ion Ratio Lower Upper

77 100

97 22.1 11.0 33.0





#27

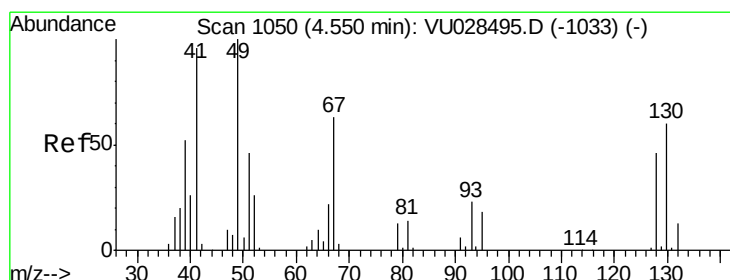
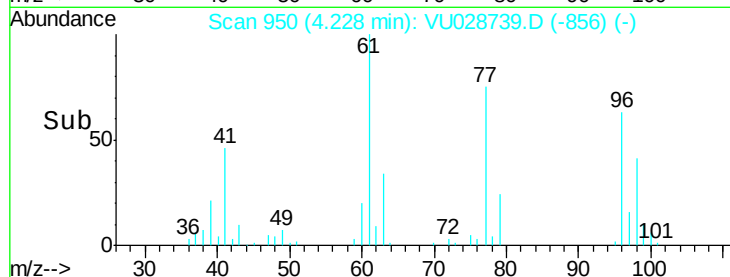
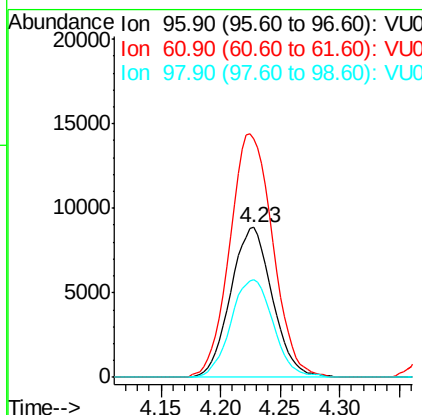
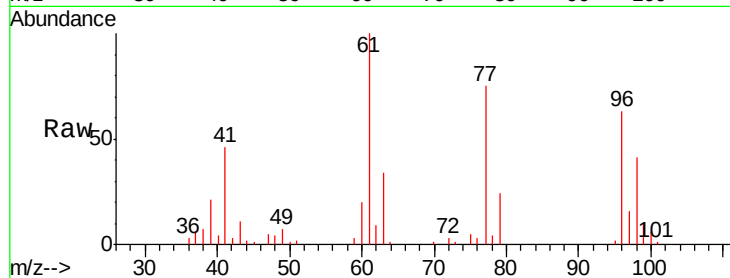
cis-1,2-Dichloroethene
Concen: 20.382 ug/l
RT: 4.23 min Scan# 950
Delta R.T. 0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Instrument :
MSVOA_U
ClientSampleId :
VU1217WBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	21570		
61	167.5	0.0	332.4	
98	65.9	0.0	129.0	

Manual Integrations
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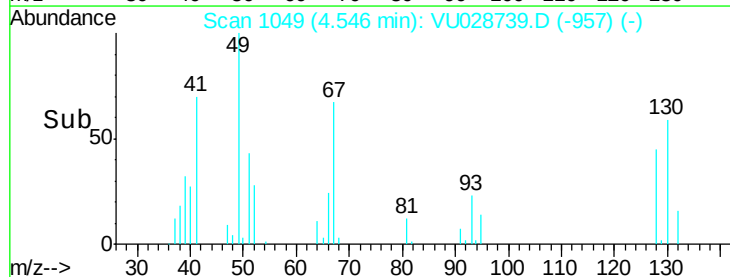
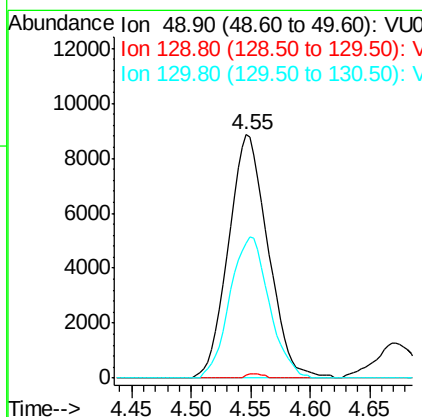
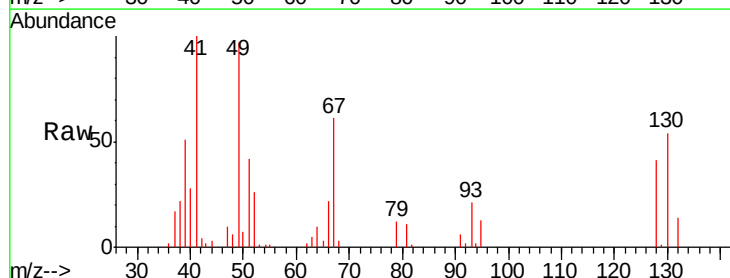
MMDadoda
12/18/2018 11:31:32 AM

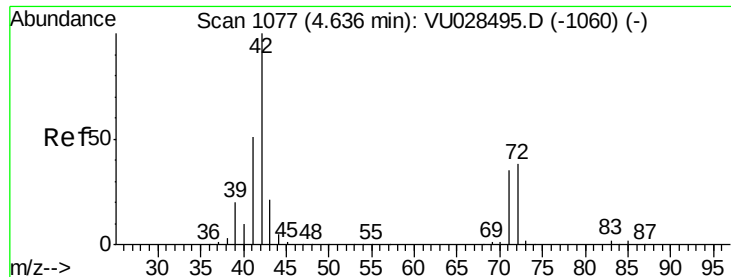


#28

Bromochloromethane
Concen: 22.430 ug/l
RT: 4.55 min Scan# 1049
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	20391		
129	0.7	0.0	3.0	
130	57.6	47.8	71.8	





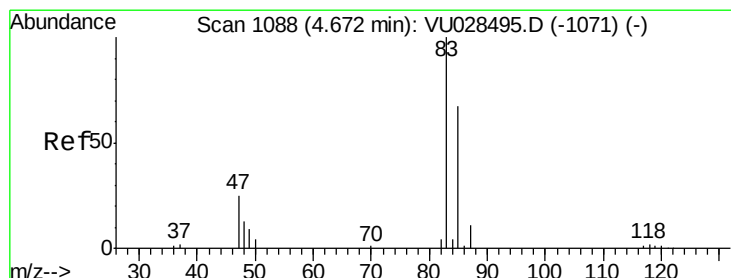
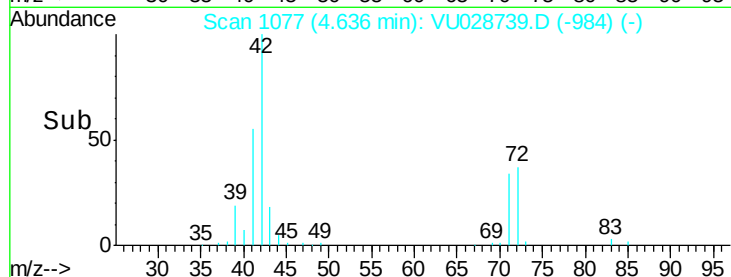
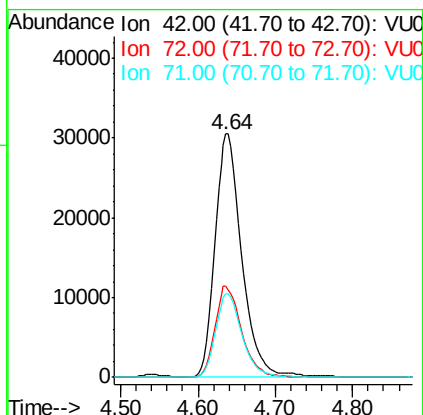
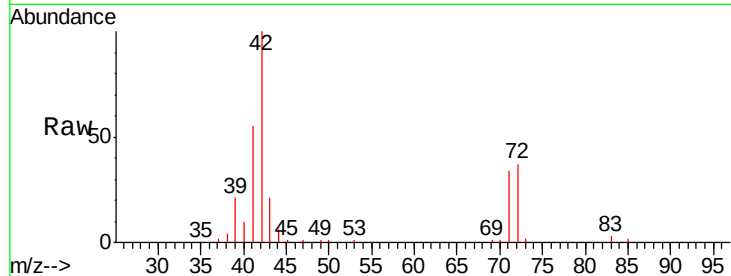
#29
Tetrahydrofuran
Concen: 113.783 ug/l
RT: 4.64 min Scan# 1077
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Instrument :
MSVOA_U
ClientSampleId :
VU1217WBSD02

Tgt Ion	Ratio	Lower	Upper
42	100		
72	37.0	31.4	47.0
71	33.8	28.6	43.0

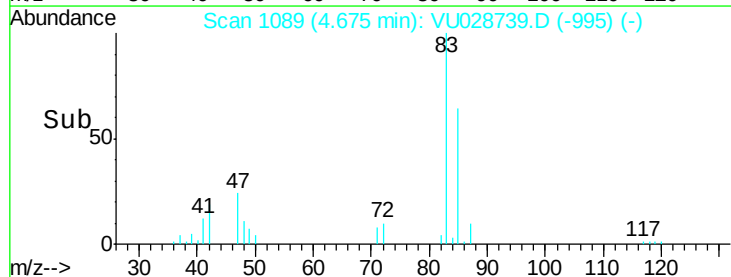
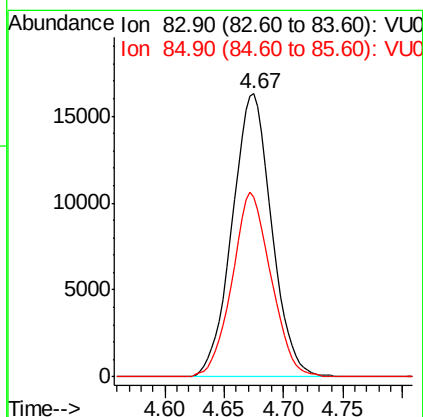
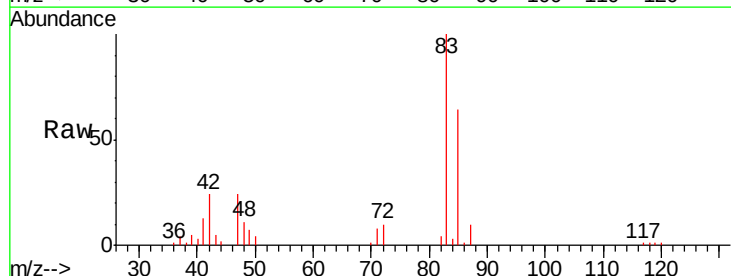
Manual Integrations
APPROVED

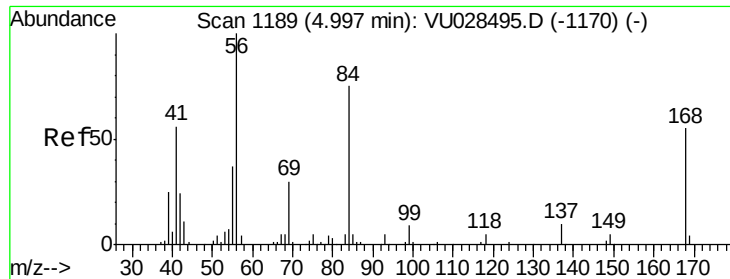
MMDadoda
12/18/2018 11:31:32 AM



#30
Chloroform
Concen: 21.478 ug/l
RT: 4.67 min Scan# 1089
Delta R.T. 0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.6	53.6	80.4





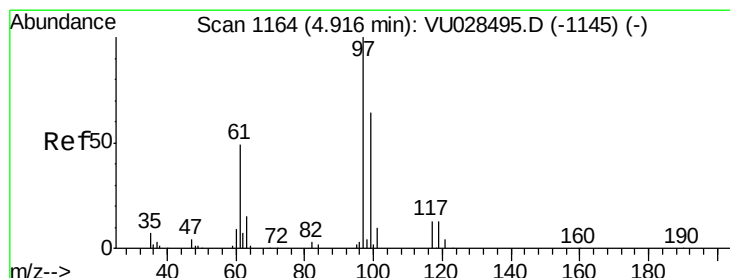
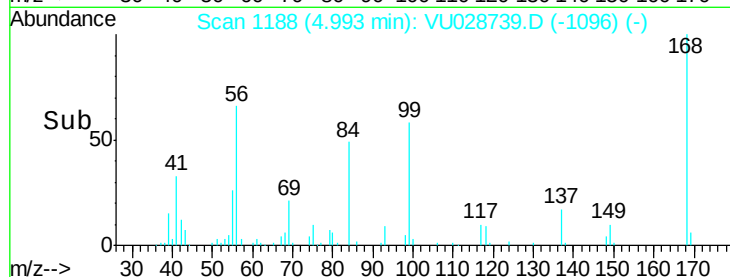
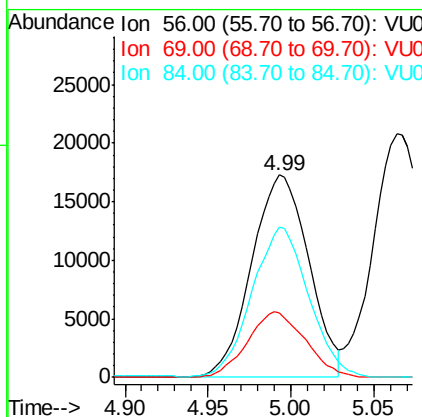
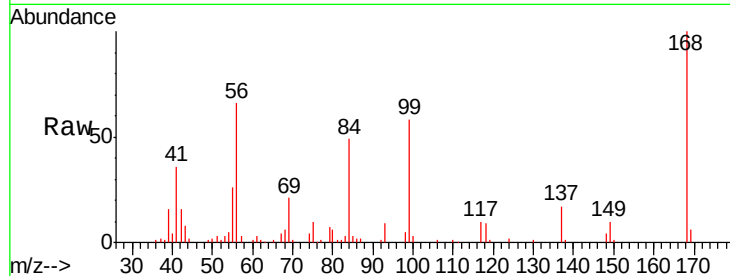
#31
Cyclohexane
Concen: 20.524 ug/l
RT: 4.99 min Scan# 1188
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Instrument :
MSVOA_U
ClientSampleId :
VU1217WBSD02

Tgt Ion	Ratio	Lower	Upper
56	100		
69	31.7	24.0	36.0
84	74.2	59.7	89.5

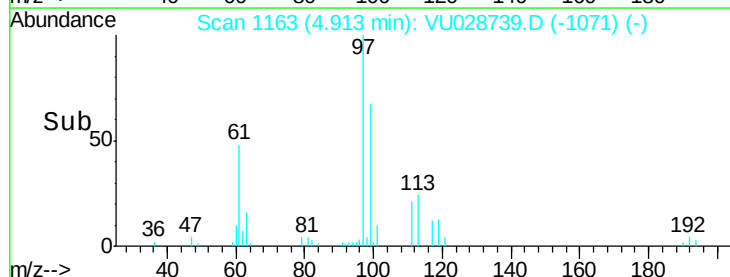
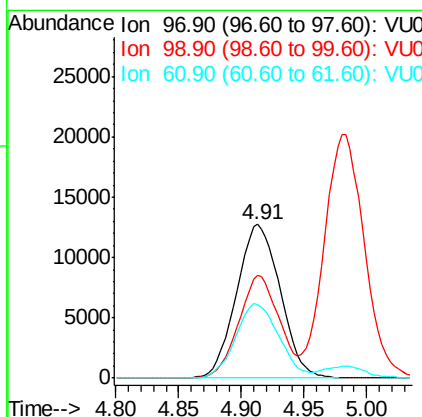
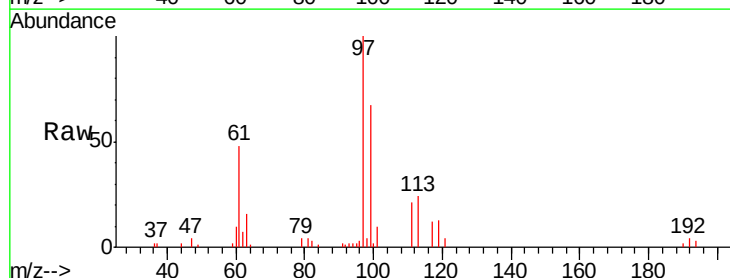
Manual Integrations
APPROVED

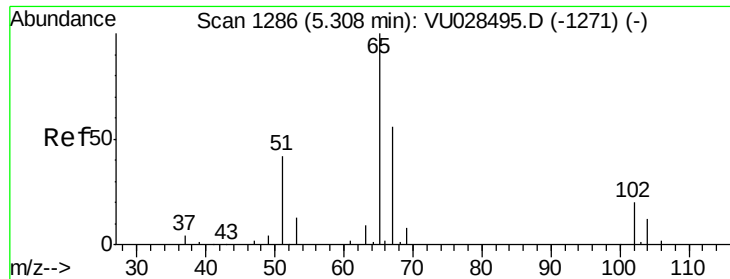
MMDadoda
12/18/2018 11:31:32 AM



#32
1,1,1-Trichloroethane
Concen: 21.321 ug/l
RT: 4.91 min Scan# 1163
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.1	52.3	78.5
61	48.1	39.0	58.6





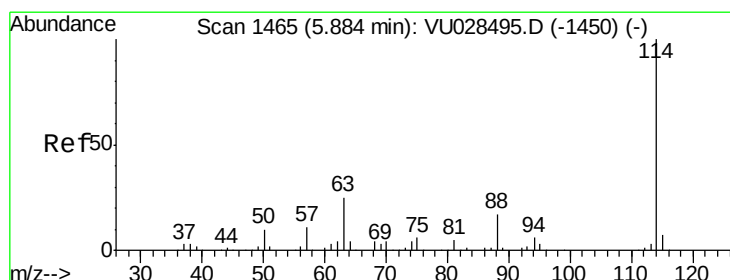
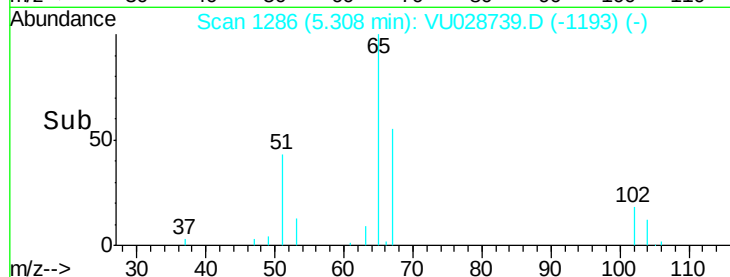
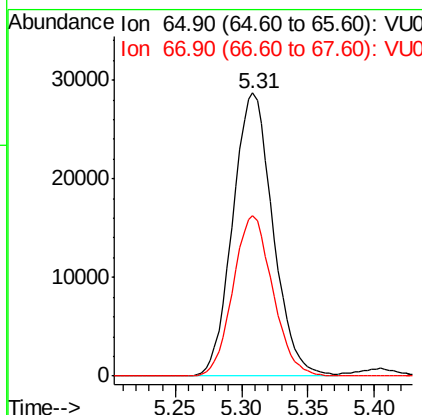
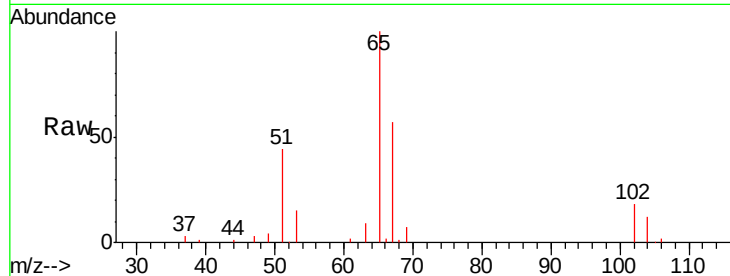
#33
 1,2-Dichloroethane-d4
 Concen: 53.153 ug/l
 RT: 5.31 min Scan# 1286
 Delta R.T. -0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1217WBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	60500		
67	56.0	0.0	110.6	

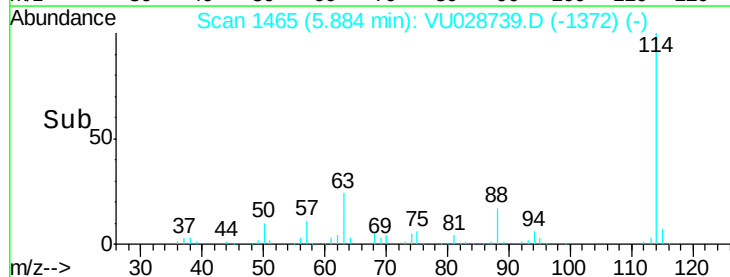
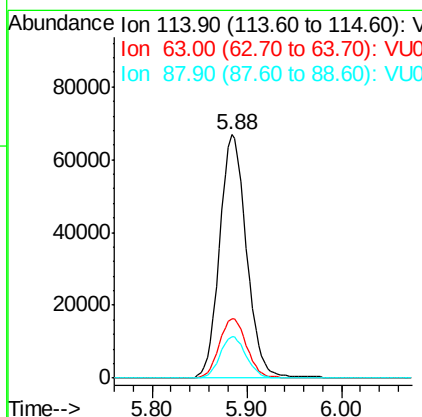
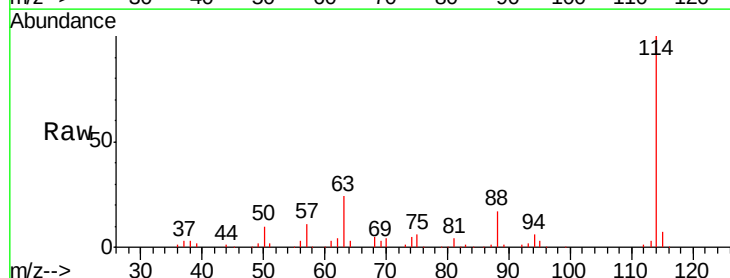
Manual Integrations
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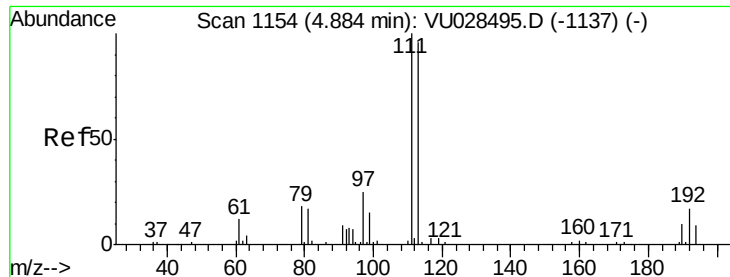
MMDadoda
 12/18/2018 11:31:32 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 5.88 min Scan# 1465
 Delta R.T. -0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	132118		
63	24.3	0.0	49.2	
88	16.8	0.0	33.4	





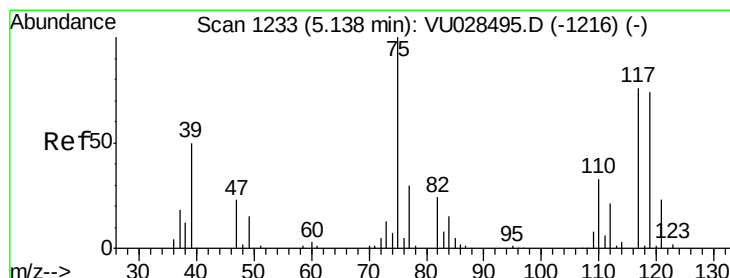
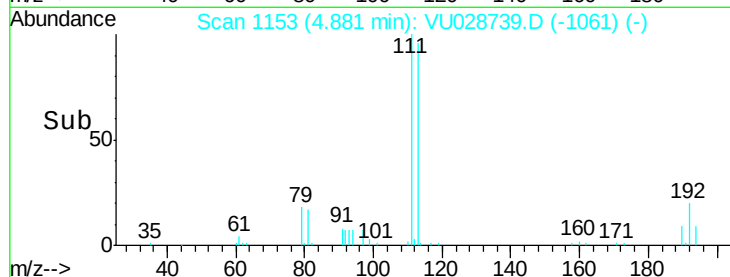
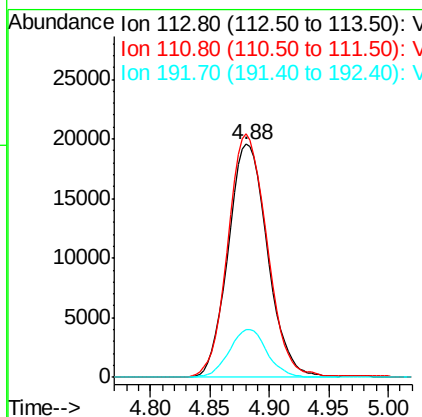
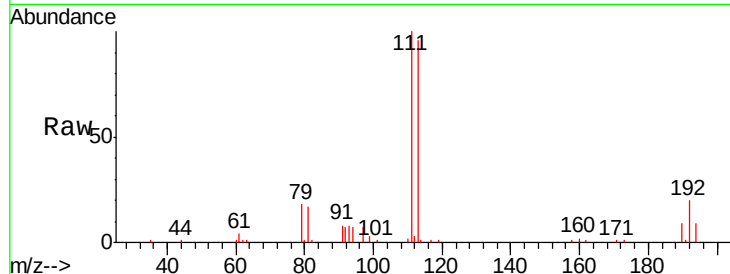
#35
 Dibromofluoromethane
 Concen: 54.049 ug/l
 RT: 4.88 min Scan# 1153
 Delta R.T. -0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1217WBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	44938		
111	103.6	83.4	125.0	
192	19.7	14.8	22.2	

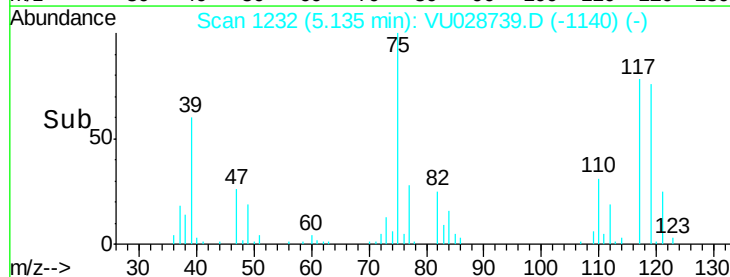
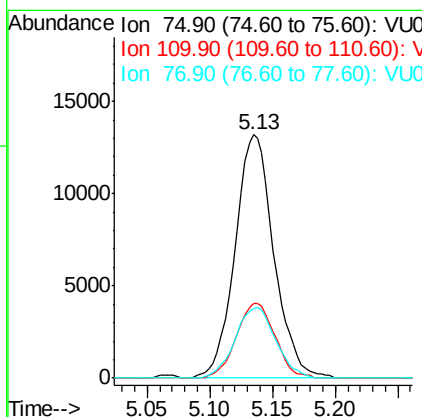
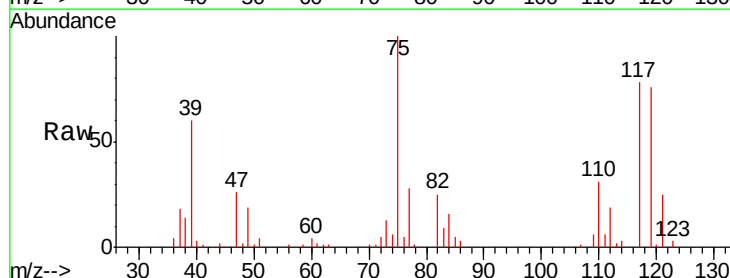
Manual Integrations
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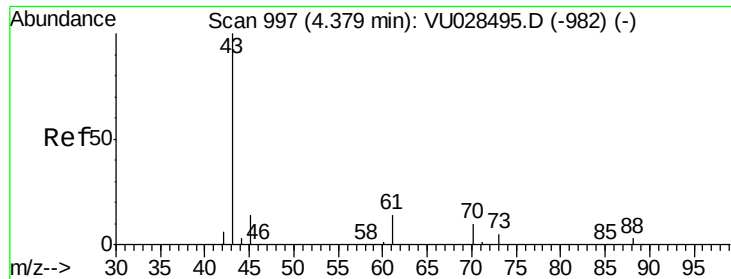
MMDadoda
 12/18/2018 11:31:32 AM



#36
 1,1-Dichloropropene
 Concen: 19.634 ug/l
 RT: 5.13 min Scan# 1232
 Delta R.T. -0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	28386		
110	30.5	16.1	48.2	
77	30.3	24.5	36.7	





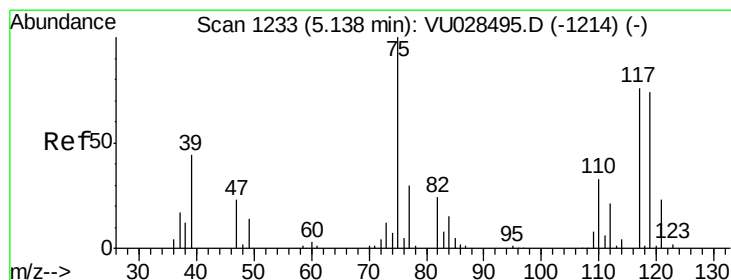
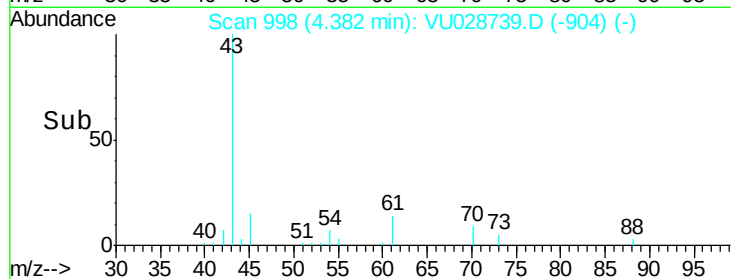
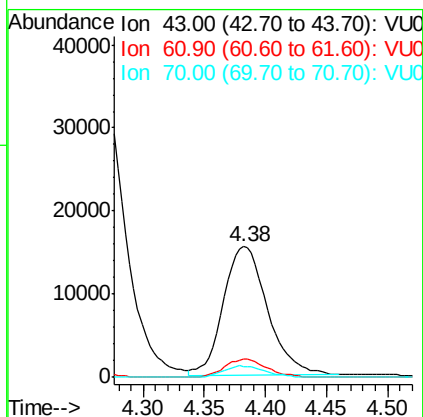
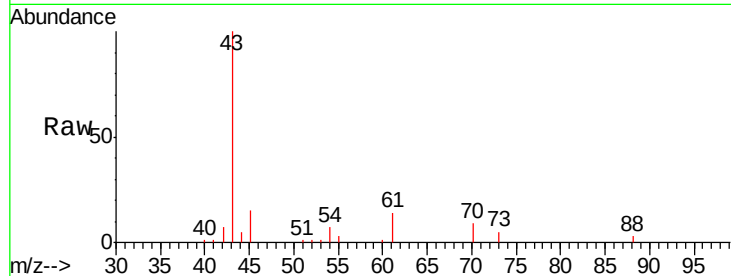
#37
Ethyl Acetate
Concen: 20.863 ug/l
RT: 4.38 min Scan# 998
Delta R.T. 0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Instrument :
MSVOA_U
ClientSampleId :
VU1217WBSD02

Tgt Ion	Ratio	Lower	Upper
43	100		
61	13.5	11.0	16.4
70	8.3	7.4	11.0

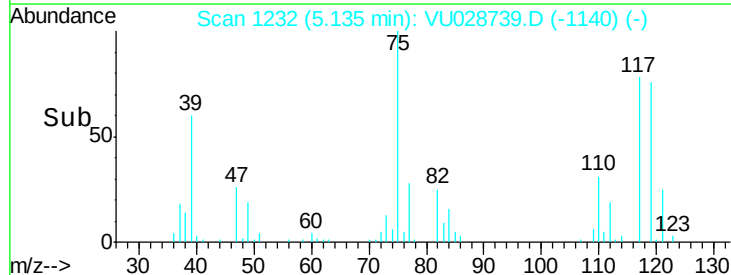
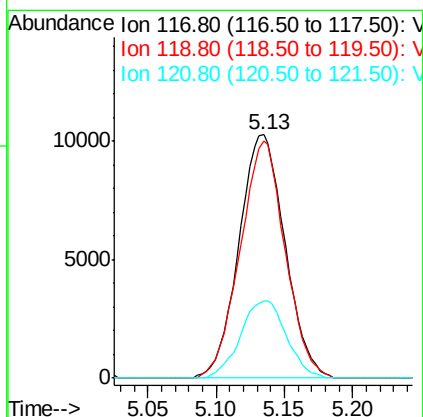
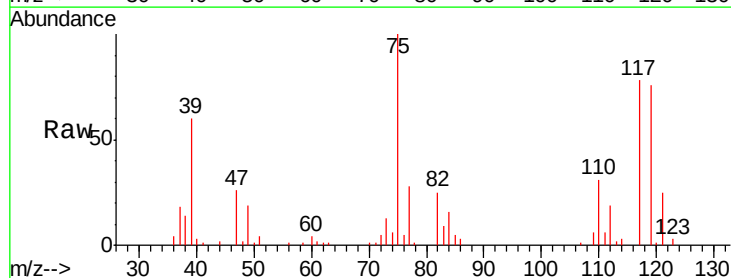
Manual Integrations
APPROVED

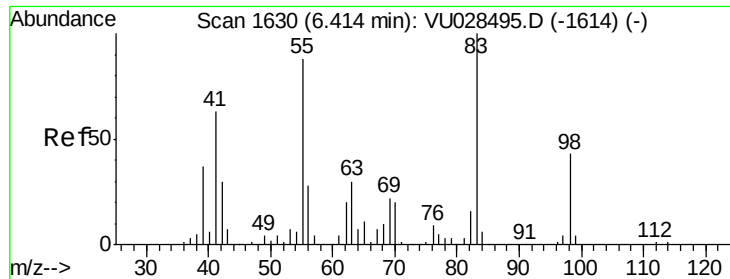
MMDadoda
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#38
Carbon Tetrachloride
Concen: 20.639 ug/l
RT: 5.13 min Scan# 1232
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.6	77.6	116.4
121	31.5	24.6	36.8





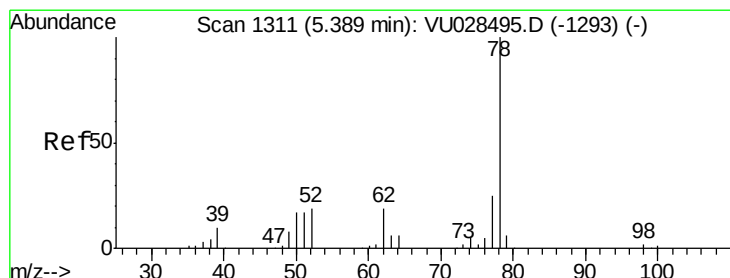
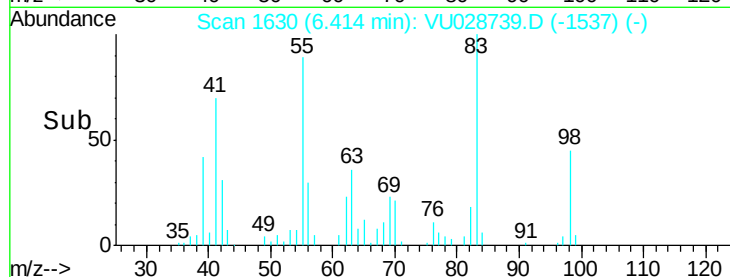
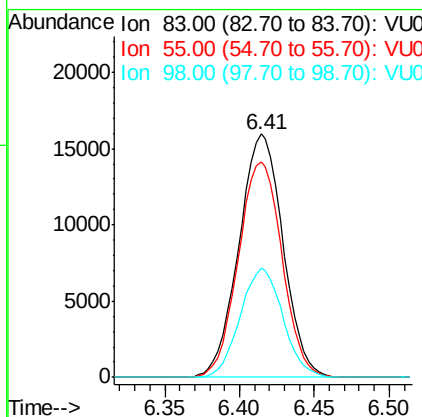
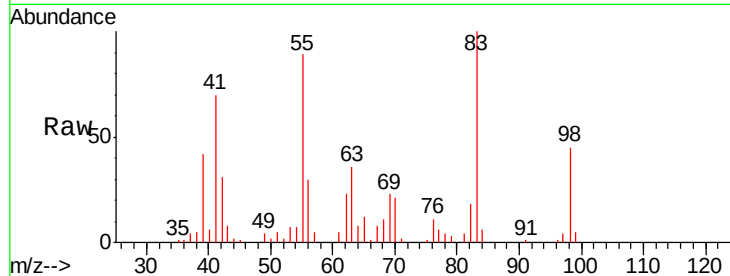
#39
Methylcyclohexane
Concen: 18.562 ug/l
RT: 6.41 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Instrument :
MSVOA_U
ClientSampleId :
VU1217WBSD02

Tgt Ion	Ratio	Lower	Upper
83	100		
55	88.6	70.2	105.2
98	44.7	34.2	51.4

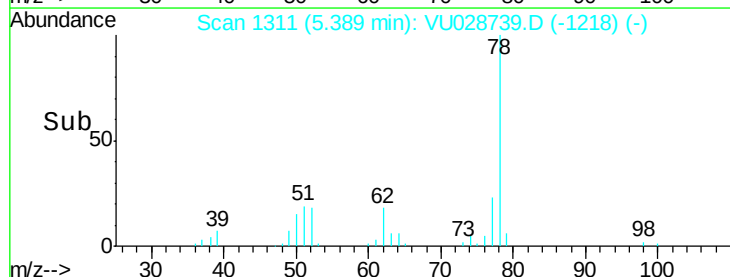
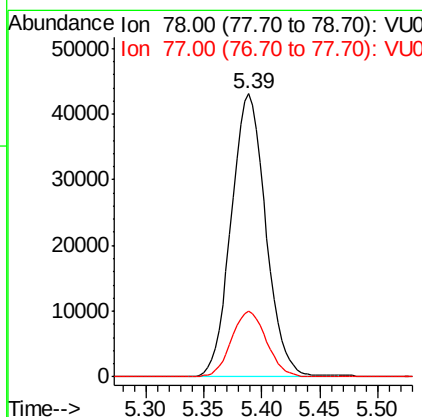
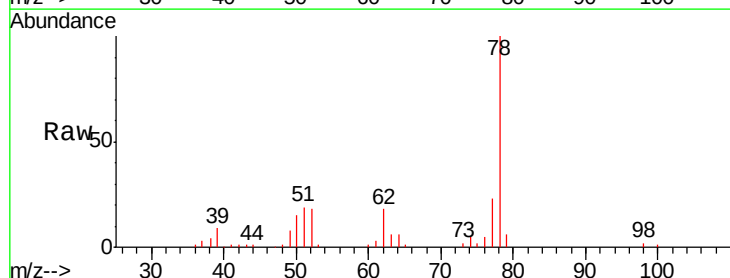
Manual Integrations
APPROVED

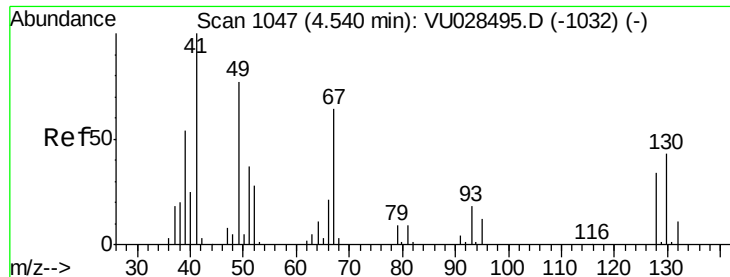
MMDadoda
12/18/2018 11:31:32 AM



#40
Benzene
Concen: 20.979 ug/l
RT: 5.39 min Scan# 1311
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.9	29.9





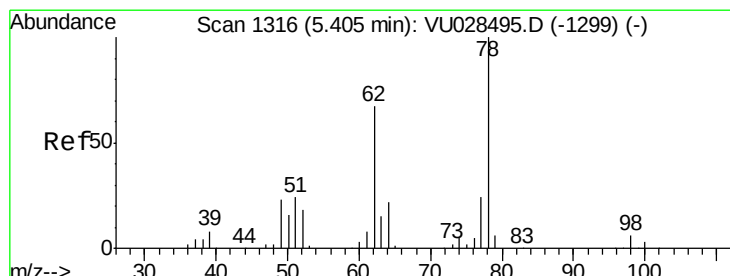
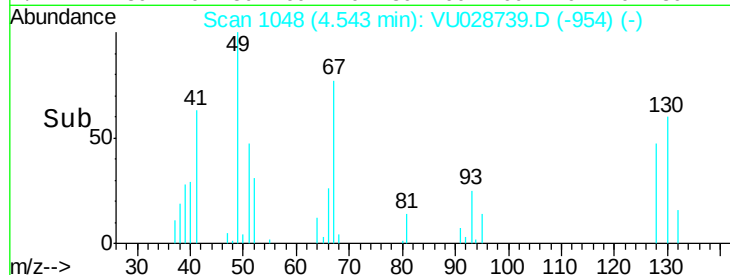
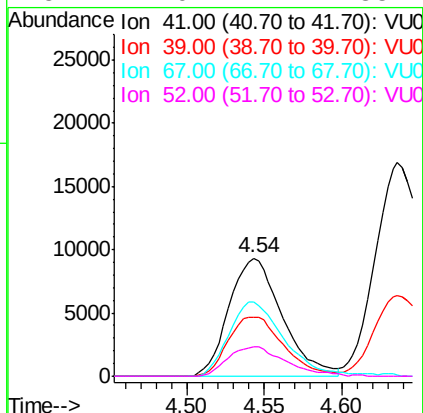
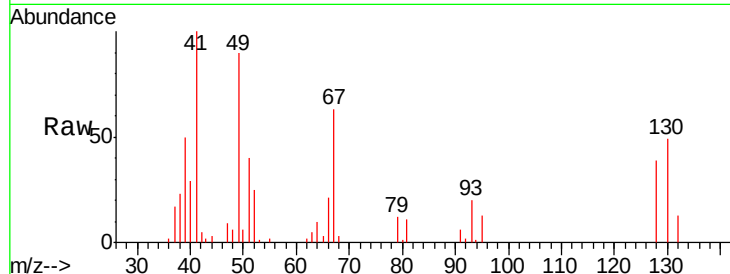
#41
Methacrylonitrile
Concen: 21.742 ug/l
RT: 4.54 min Scan# 1048
Delta R.T. 0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Instrument :
MSVOA_U
ClientSampleId :
VU1217WBSD02

Tgt Ion	Ion	Ratio	Lower	Upper
41	100			
39	52.7	43.3	64.9	
67	65.4	53.6	80.4	
52	27.0	22.1	33.1	

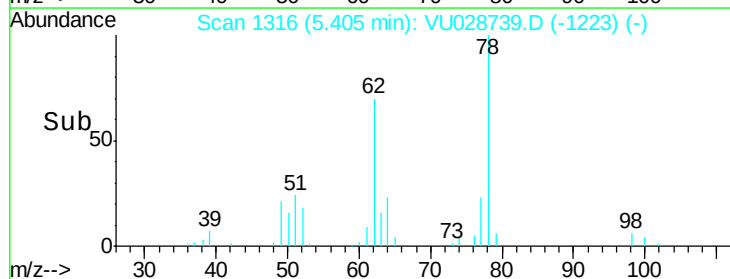
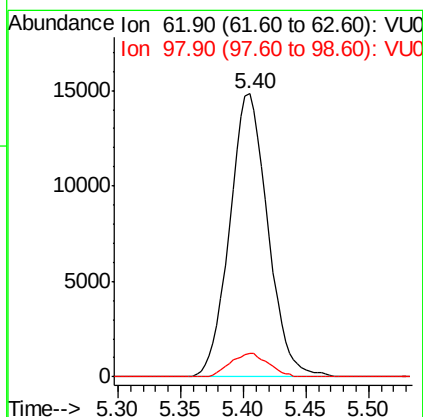
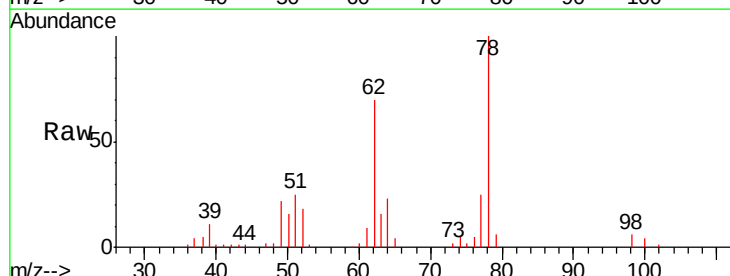
Manual Integrations
APPROVED

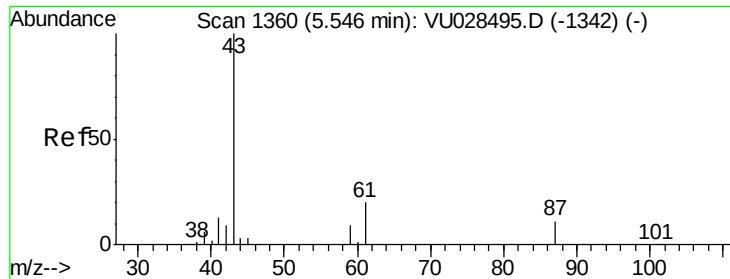
MMDadoda
12/18/2018 11:31:32 AM



#42
1,2-Dichloroethane
Concen: 21.031 ug/l
RT: 5.40 min Scan# 1316
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.3	0.0	17.2	





#43

Isopropyl Acetate

Concen: 22.011 ug/l

RT: 5.55 min Scan# 1361

Delta R.T. 0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Instrument :

MSVOA_U

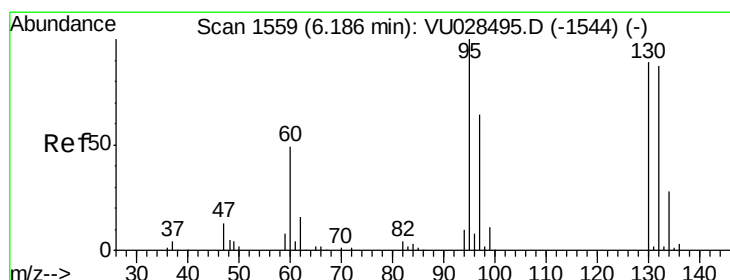
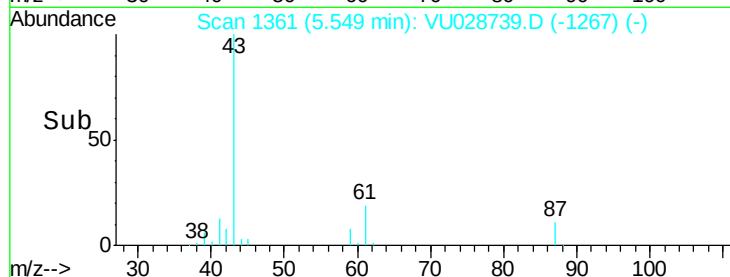
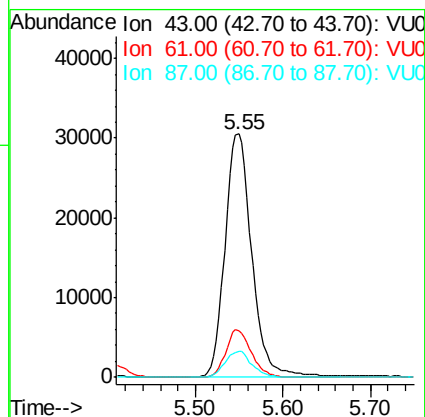
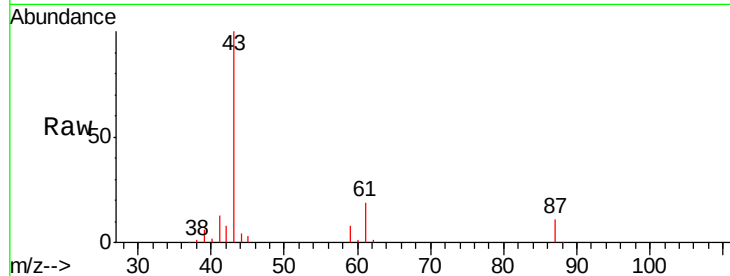
ClientSampleId :

VU1217WBSD02

Tgt Ion:	43	Resp:	65067
Ion	Ratio	Lower	Upper
43	100		
61	18.6	15.5	23.3
87	10.7	8.7	13.1

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#44

Trichloroethene

Concen: 20.497 ug/l

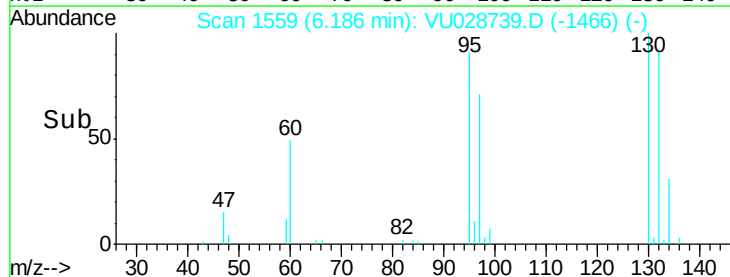
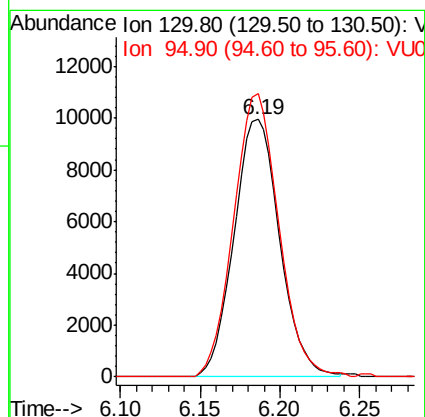
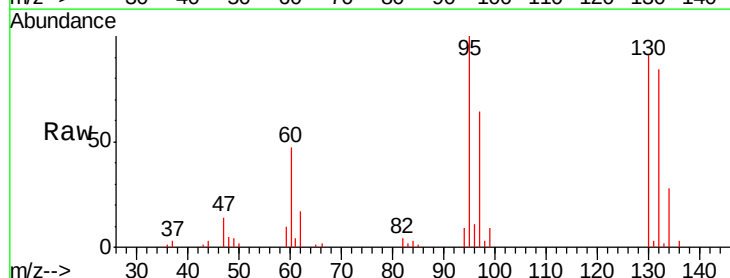
RT: 6.19 min Scan# 1559

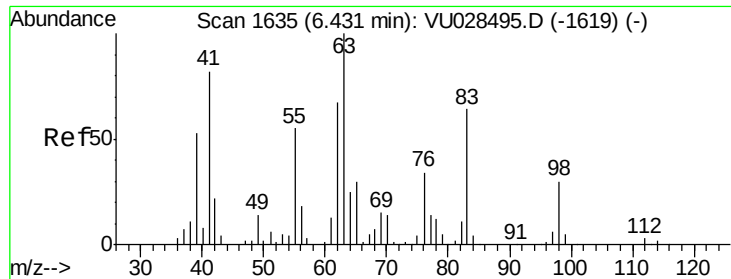
Delta R.T. -0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Tgt Ion:	130	Resp:	19406
Ion	Ratio	Lower	Upper
130	100		
95	109.9	0.0	224.0





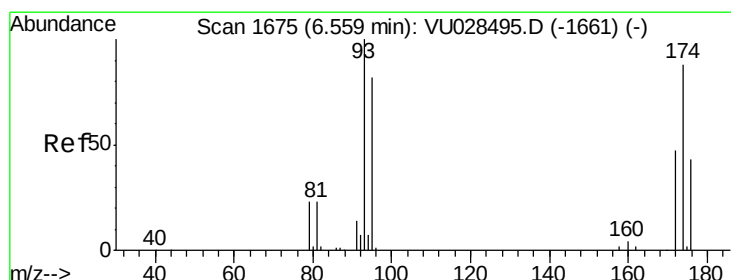
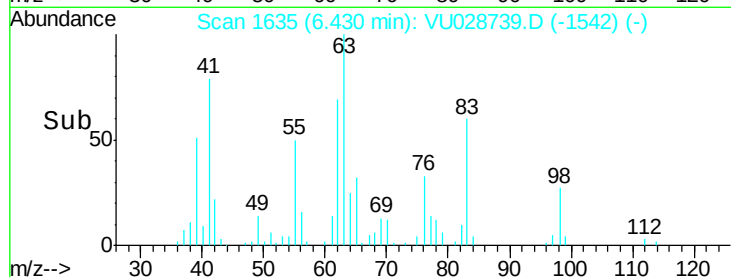
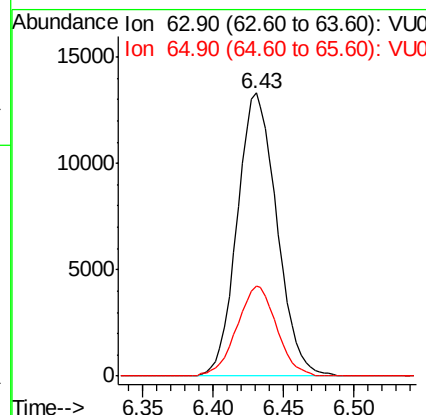
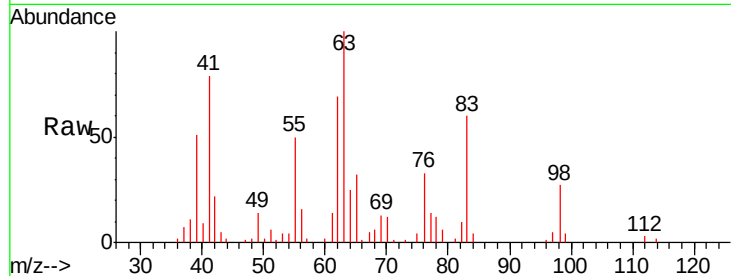
#45
 1,2-Dichloropropane
 Concen: 21.856 ug/l
 RT: 6.43 min Scan# 1635
 Delta R.T. -0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1217WBSD02

Tgt Ion: 63 Resp: 26170
 Ion Ratio Lower Upper
 63 100
 65 31.8 24.2 36.4

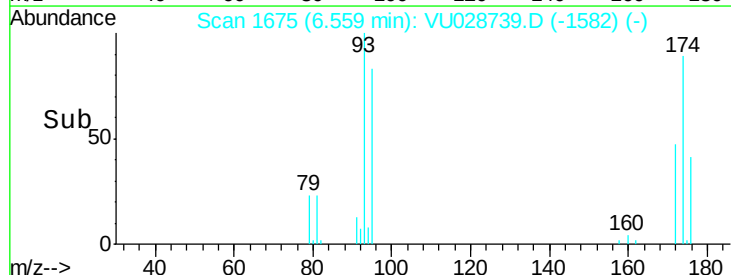
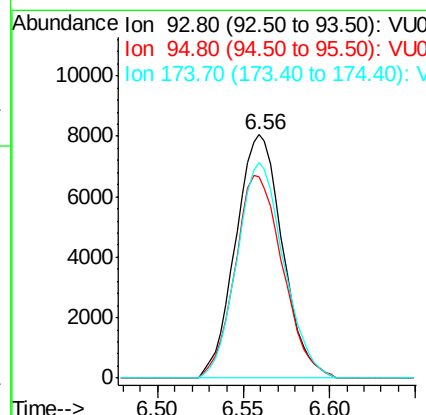
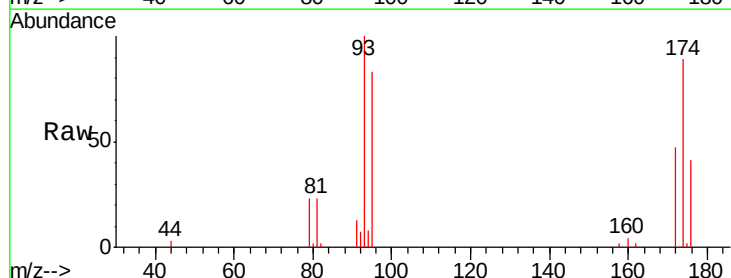
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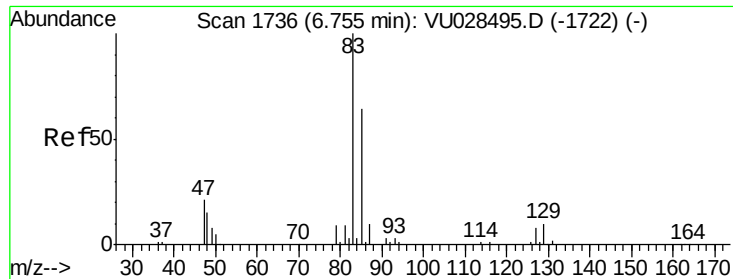
MMDadoda
 12/18/2018 11:31:32 AM



#46
 Dibromomethane
 Concen: 21.420 ug/l
 RT: 6.56 min Scan# 1675
 Delta R.T. -0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Tgt Ion: 93 Resp: 15218
 Ion Ratio Lower Upper
 93 100
 95 84.6 65.4 98.2
 174 88.4 72.2 108.4





#47

Bromodichloromethane

Concen: 21.319 ug/l

RT: 6.76 min Scan# 1736

Delta R.T. -0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Instrument :

MSVOA_U

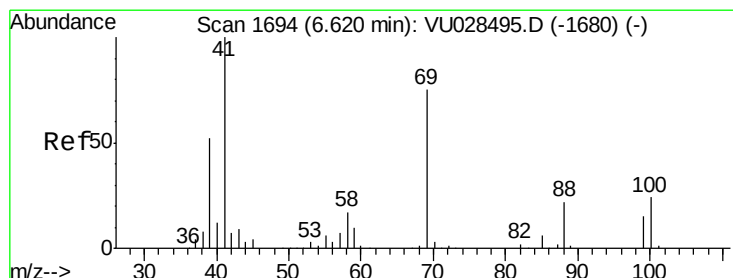
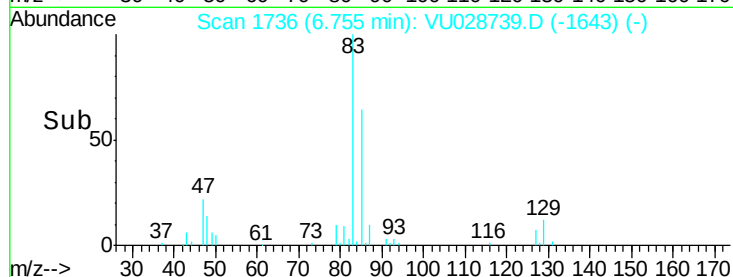
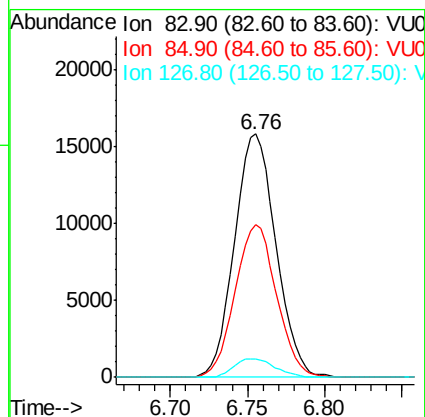
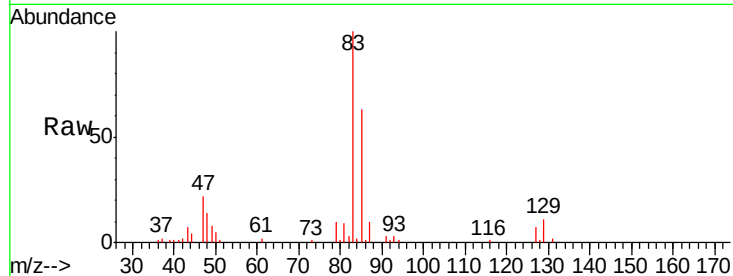
ClientSampleId :

VU1217WBSD02

Tgt Ion:	83	Resp:	29473
Ion	Ratio	Lower	Upper
83	100		
85	62.9	51.5	77.3
127	7.3	6.2	9.4

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#48

Methyl methacrylate

Concen: 21.730 ug/l

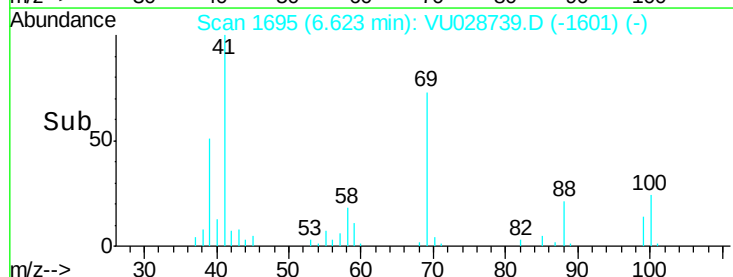
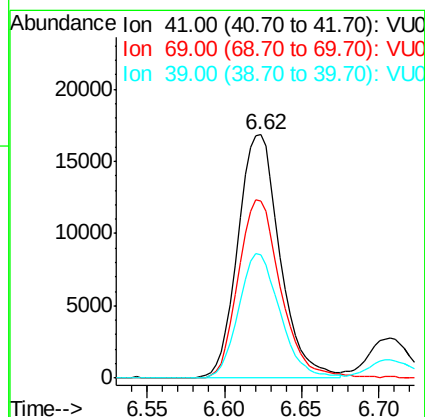
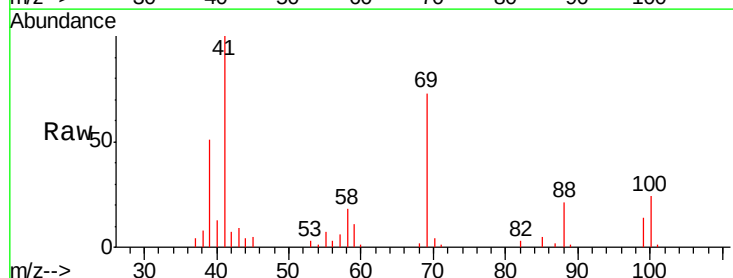
RT: 6.62 min Scan# 1695

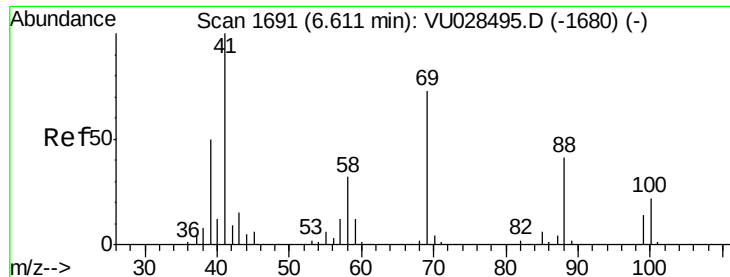
Delta R.T. 0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Tgt Ion:	41	Resp:	31944
Ion	Ratio	Lower	Upper
41	100		
69	73.7	60.4	90.6
39	50.3	41.1	61.7





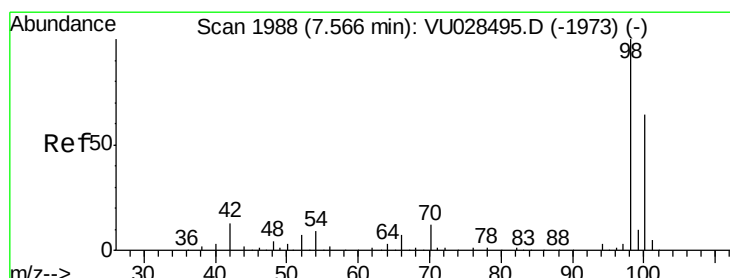
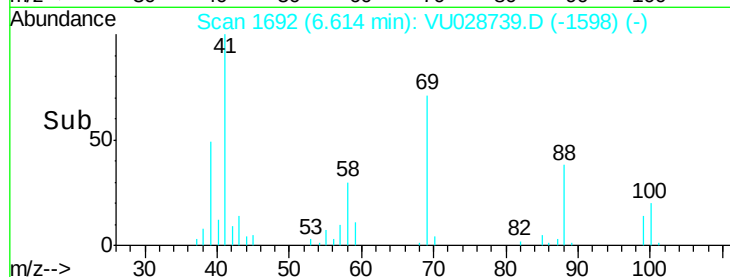
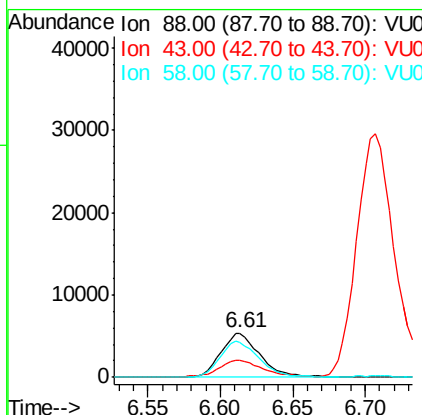
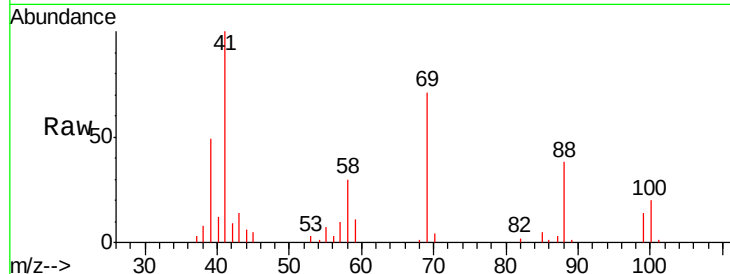
#49
1,4-Dioxane
Concen: 433.356 ug/l
RT: 6.61 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Instrument :
MSVOA_U
ClientSampleId :
VU1217WBSD02

Tgt Ion	Ratio	Lower	Upper
88	100		
43	45.1	30.9	46.3
58	82.4	62.4	93.6

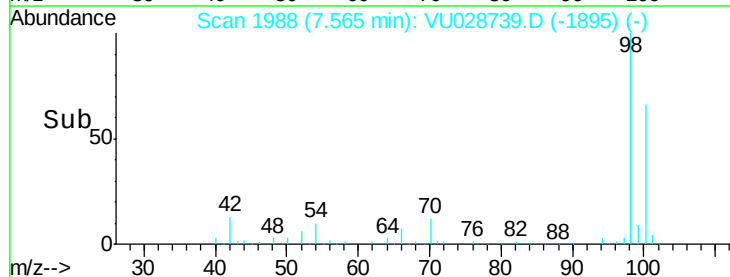
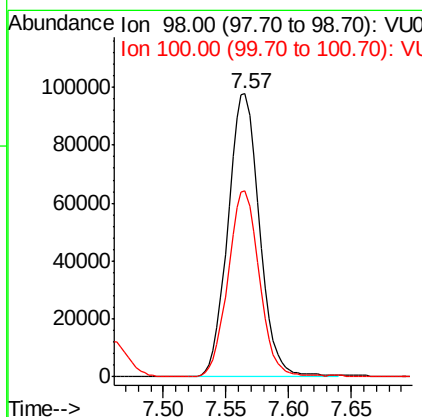
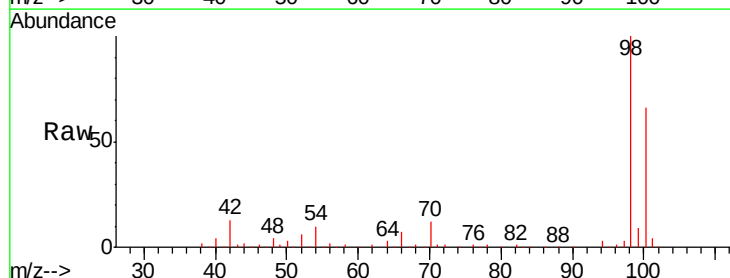
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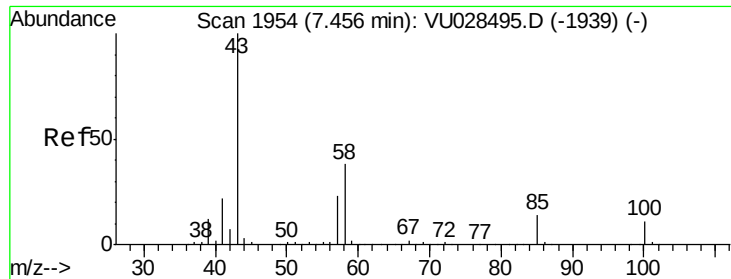
MMDadoda
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#50
Toluene-d8
Concen: 52.030 ug/l
RT: 7.57 min Scan# 1988
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.7	51.0	76.6





#51

4-Methyl-2-Pentanone

Concen: 109.234 ug/l

RT: 7.46 min Scan# 1955

Delta R.T. 0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Instrument :

MSVOA_U

ClientSampleId :

VU1217WBSD02

Tgt Ion: 43 Resp: 203659

Ion Ratio Lower Upper

43 100

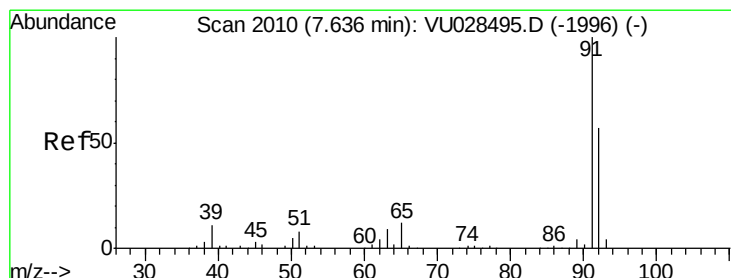
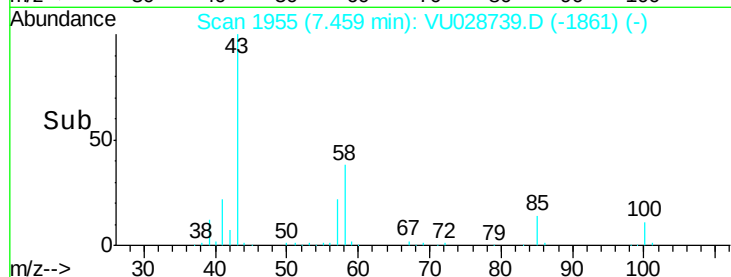
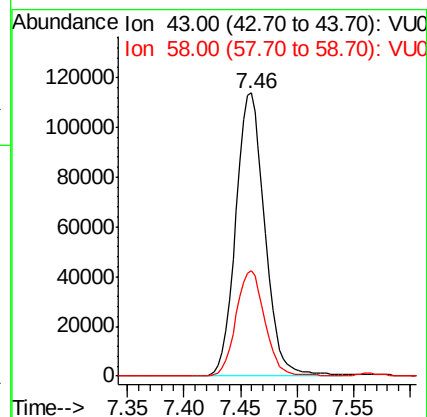
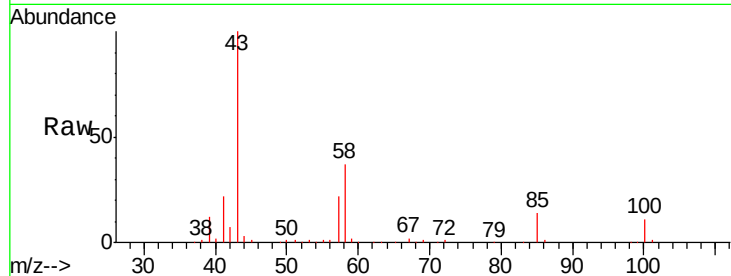
58 37.0 30.2 45.2

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#52

Toluene

Concen: 20.895 ug/l

RT: 7.64 min Scan# 2010

Delta R.T. -0.00 min

Lab File: VU028739.D

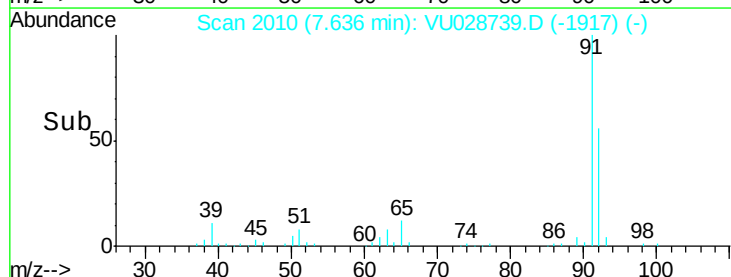
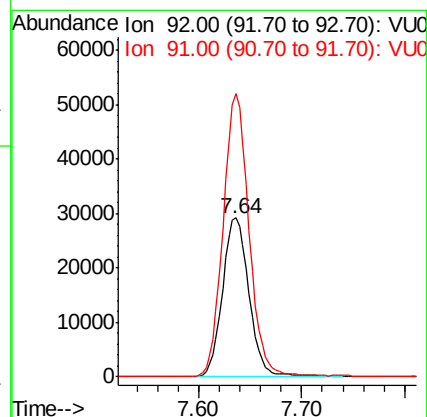
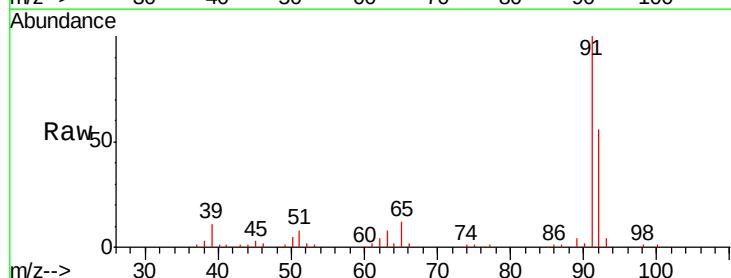
Acq: 17 Dec 2018 23:33

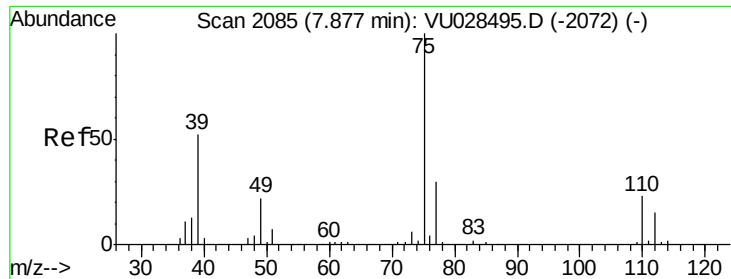
Tgt Ion: 92 Resp: 52362

Ion Ratio Lower Upper

92 100

91 174.3 140.2 210.4





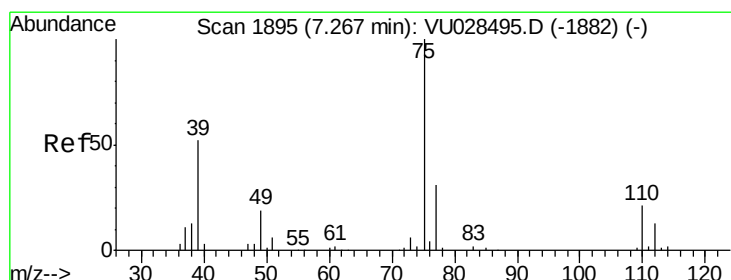
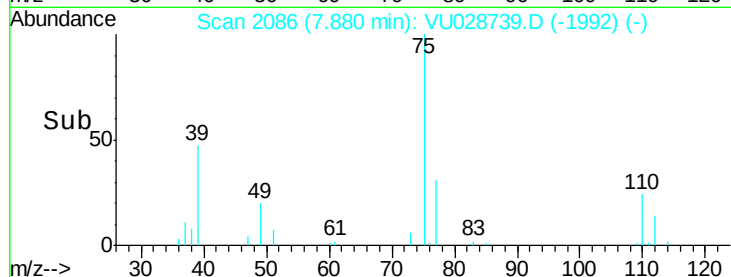
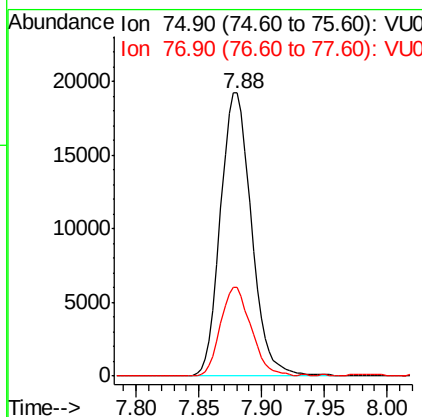
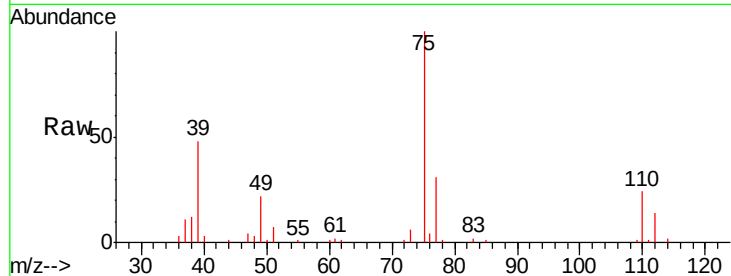
#53
 t-1,3-Dichloropropene
 Concen: 20.085 ug/l
 RT: 7.88 min Scan# 2086
 Delta R.T. 0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1217WBSD02

Tgt Ion: 75 Resp: 33071
 Ion Ratio Lower Upper
 75 100
 77 31.4 24.2 36.4

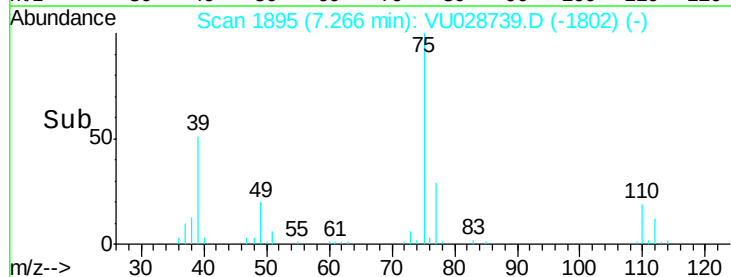
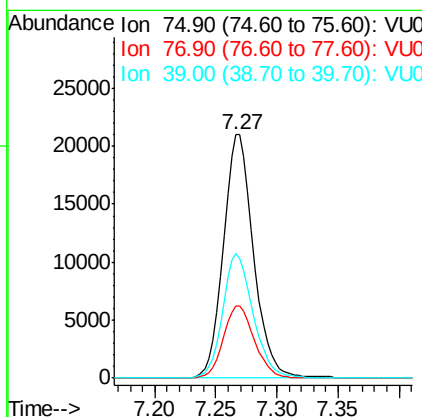
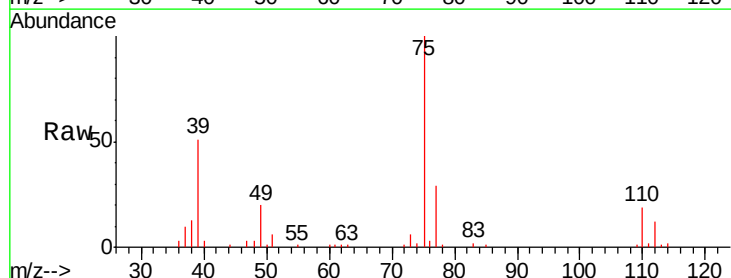
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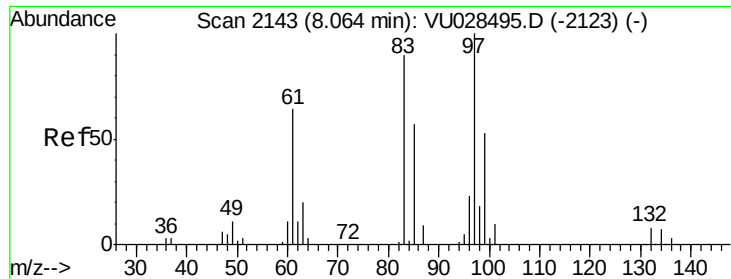
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#54
 cis-1,3-Dichloropropene
 Concen: 20.368 ug/l
 RT: 7.27 min Scan# 1895
 Delta R.T. -0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Tgt Ion: 75 Resp: 36384
 Ion Ratio Lower Upper
 75 100
 77 29.4 25.0 37.4
 39 51.0 41.3 61.9





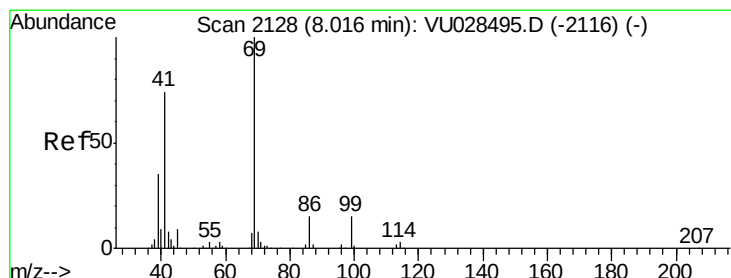
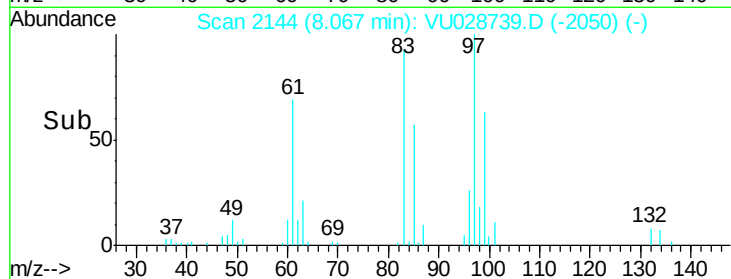
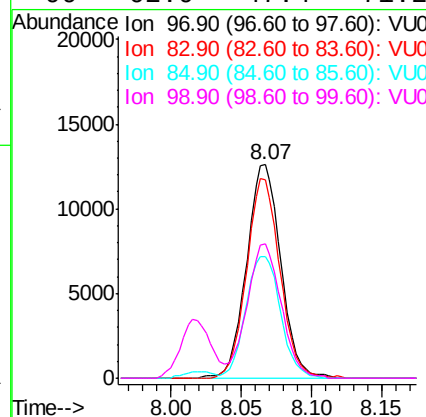
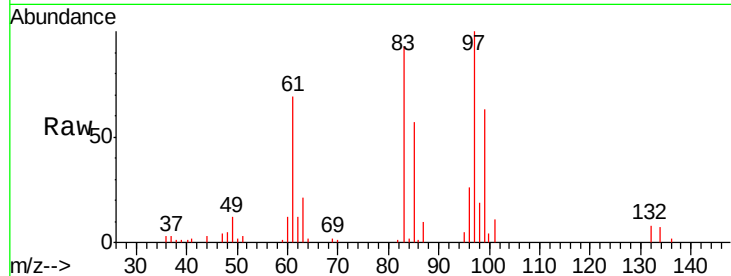
#55
 1,1,2-Trichloroethane
 Concen: 21.716 ug/l
 RT: 8.07 min Scan# 2144
 Delta R.T. 0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1217WBSD02

Tgt Ion:	97	Resp:	21512
Ion	Ratio	Lower	Upper
97	100		
83	92.8	72.4	108.6
85	56.9	46.0	69.0
99	62.9	47.4	71.2

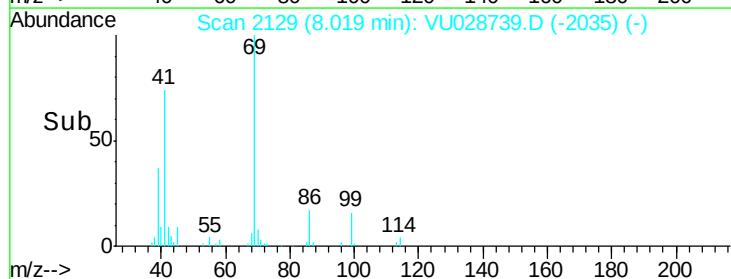
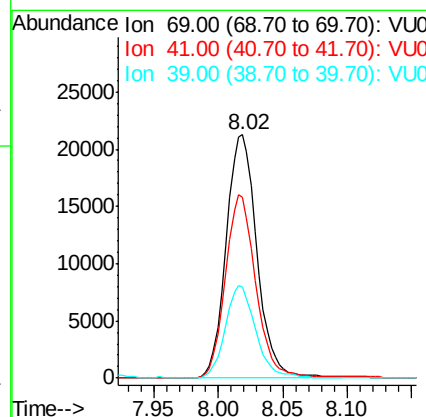
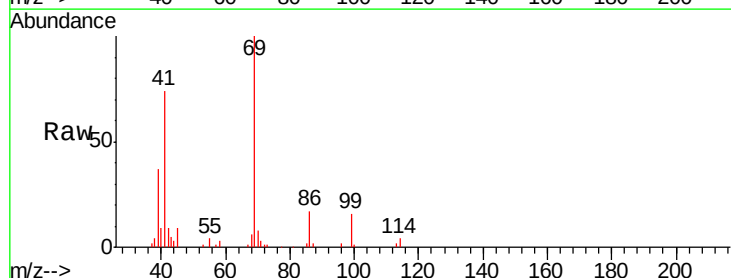
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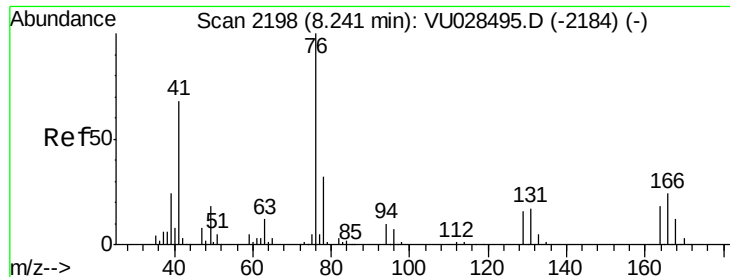
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#56
 Ethyl methacrylate
 Concen: 20.821 ug/l
 RT: 8.02 min Scan# 2129
 Delta R.T. 0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Tgt Ion:	69	Resp:	35320
Ion	Ratio	Lower	Upper
69	100		
41	74.2	59.1	88.7
39	37.4	28.4	42.6





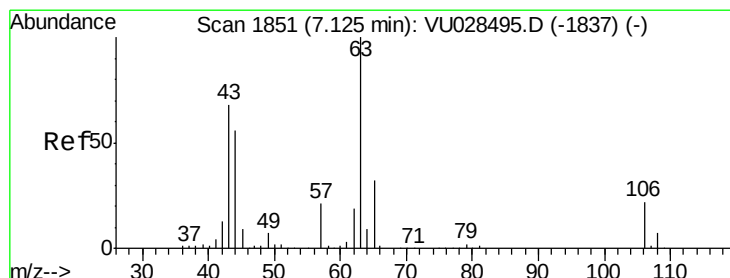
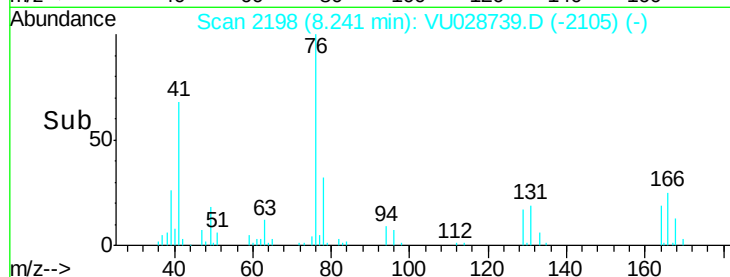
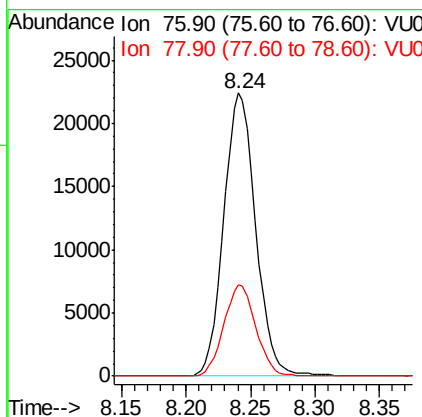
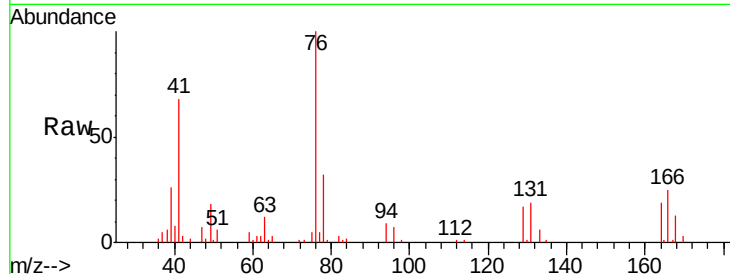
#57
 1,3-Dichloropropane
 Concen: 20.882 ug/l
 RT: 8.24 min Scan# 2198
 Delta R.T. -0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1217WBSD02

Tgt Ion: 76 Resp: 38399
 Ion Ratio Lower Upper
 76 100
 78 32.1 25.2 37.8

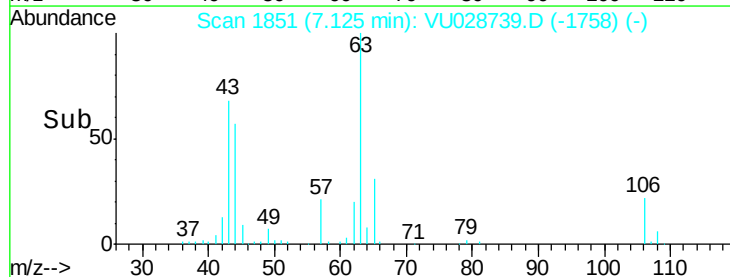
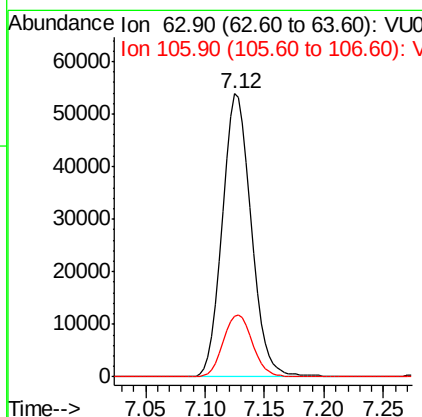
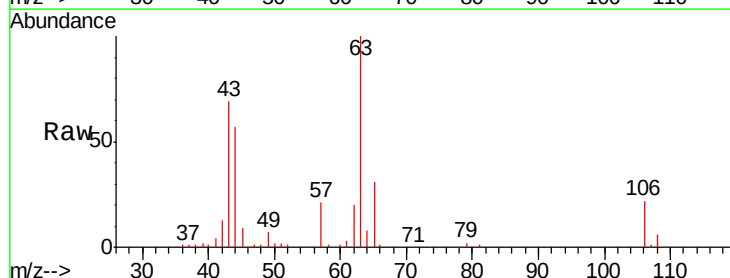
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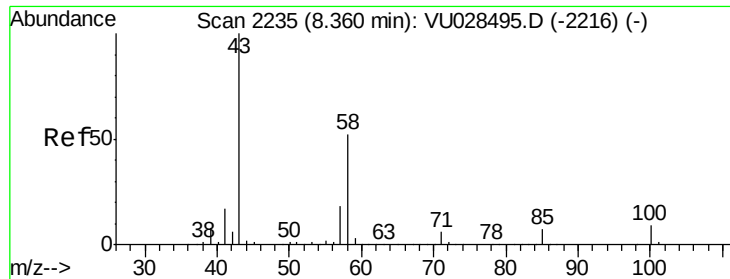
MMDadoda
 12/18/2018 11:31:32 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 104.757 ug/l
 RT: 7.12 min Scan# 1851
 Delta R.T. -0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Tgt Ion: 63 Resp: 91019
 Ion Ratio Lower Upper
 63 100
 106 22.3 17.8 26.6





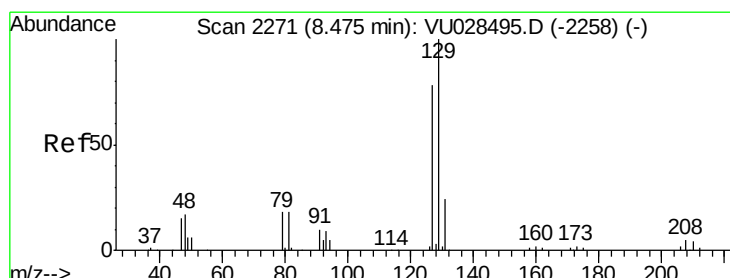
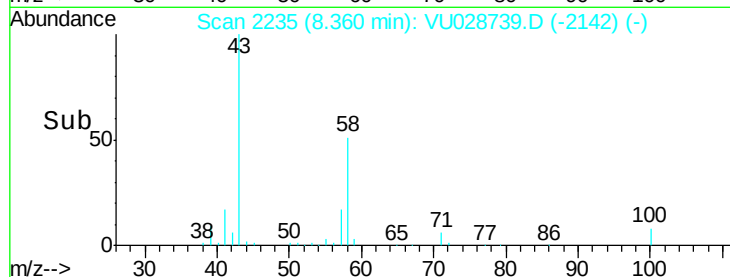
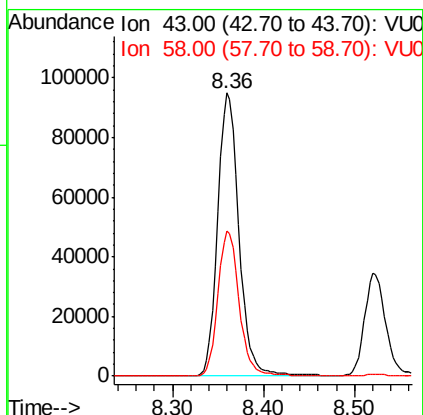
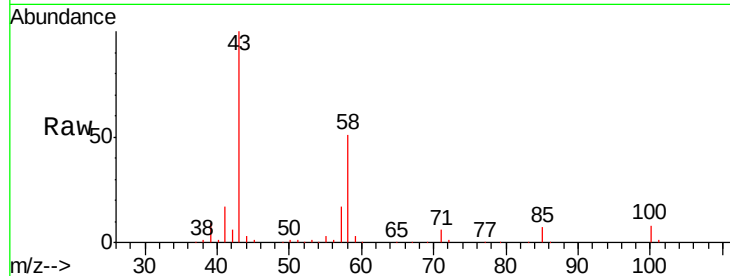
#59
2-Hexanone
Concen: 105.012 ug/l
RT: 8.36 min Scan# 2235
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Instrument :
MSVOA_U
ClientSampleId :
VU1217WBSD02

Tgt Ion: 43 Resp: 155183
Ion Ratio Lower Upper
43 100
58 51.1 25.9 77.6

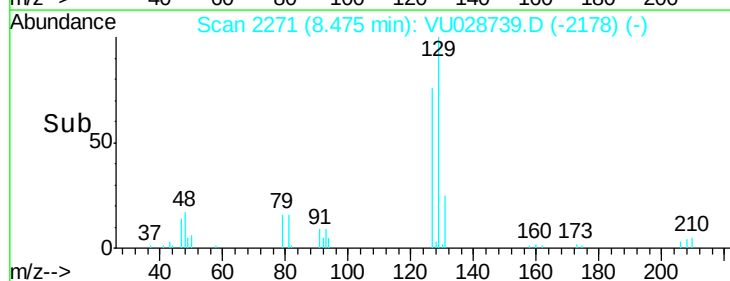
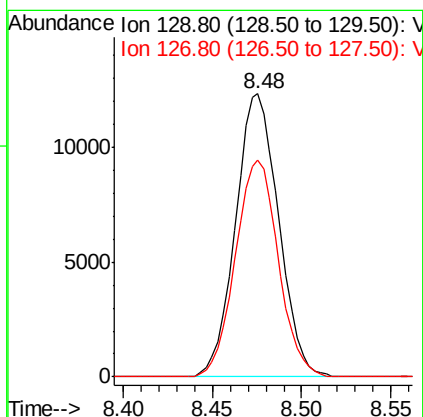
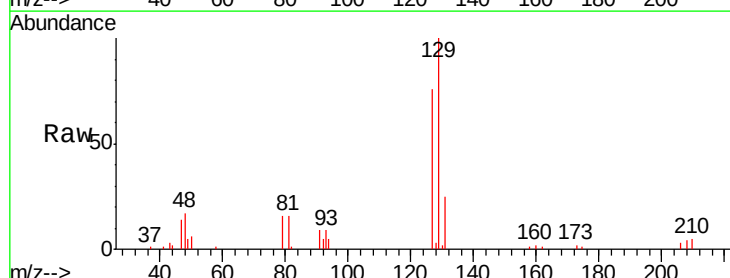
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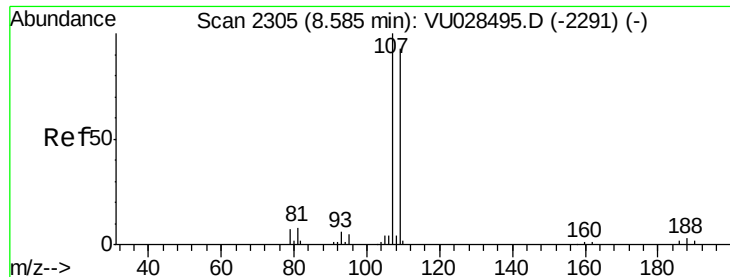
MMDadoda
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#60
Dibromochloromethane
Concen: 21.362 ug/l
RT: 8.48 min Scan# 2271
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Tgt Ion: 129 Resp: 20718
Ion Ratio Lower Upper
129 100
127 76.3 39.1 117.3





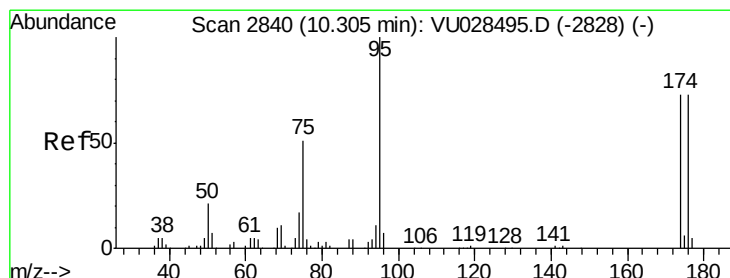
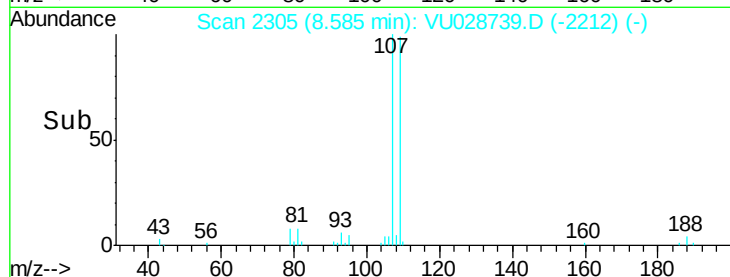
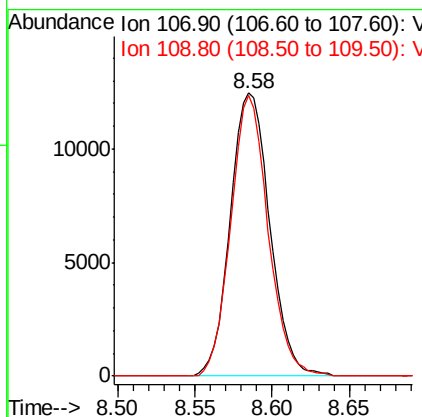
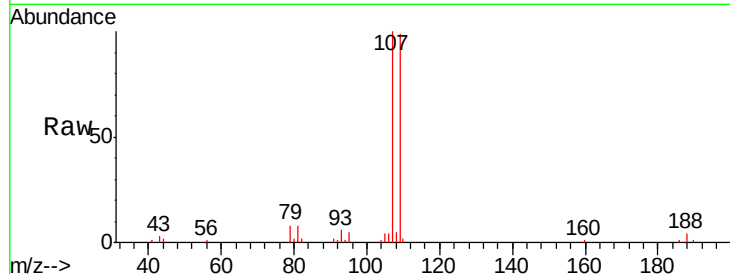
#61
 1,2-Dibromoethane
 Concen: 21.245 ug/l
 RT: 8.58 min Scan# 2305
 Delta R.T. -0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1217WBSD02

Tgt Ion: 107 Resp: 22069
 Ion Ratio Lower Upper
 107 100
 109 93.4 74.5 111.7

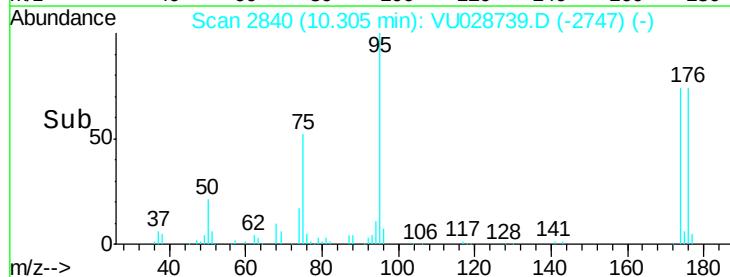
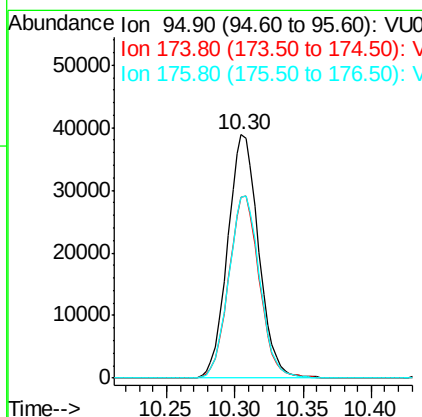
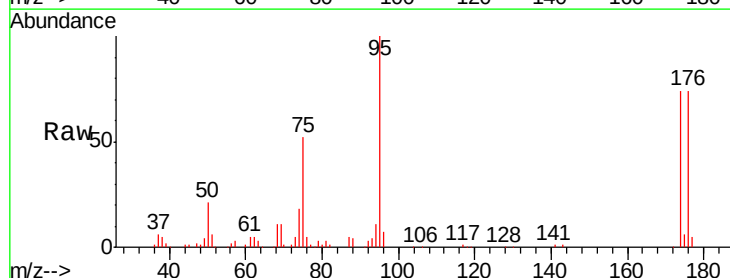
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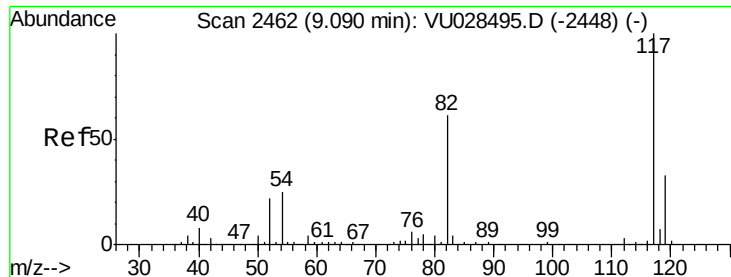
MMDadoda
 12/18/2018 11:31:32 AM



#62
 4-Bromofluorobenzene
 Concen: 49.948 ug/l
 RT: 10.30 min Scan# 2840
 Delta R.T. -0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Tgt Ion: 95 Resp: 61401
 Ion Ratio Lower Upper
 95 100
 174 73.9 0.0 150.4
 176 74.8 0.0 145.2





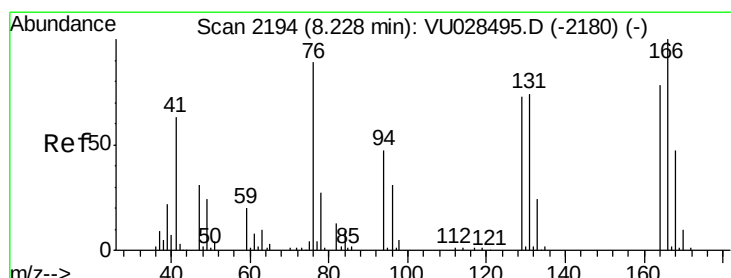
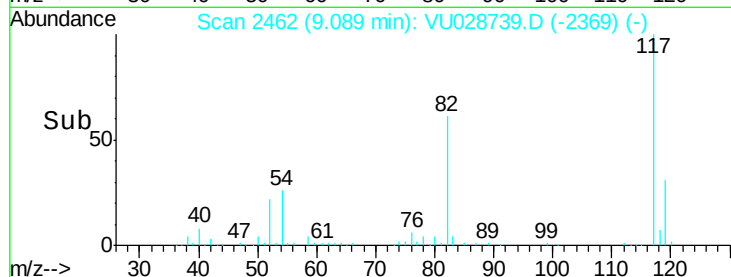
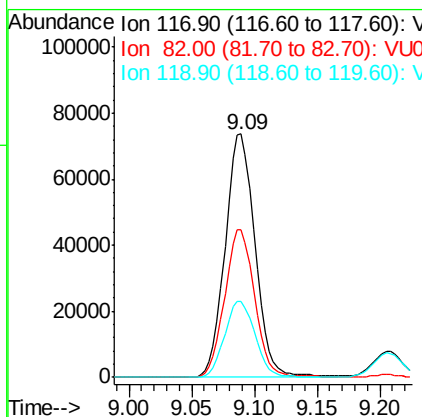
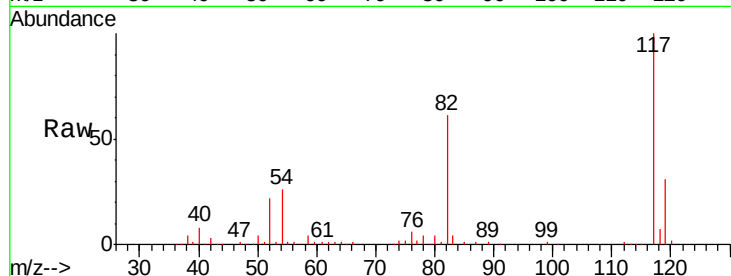
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 9.09 min Scan# 2462
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Instrument :
MSVOA_U
ClientSampleId :
VU1217WBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	122121		
82	60.9	48.9	73.3	
119	31.3	26.2	39.4	

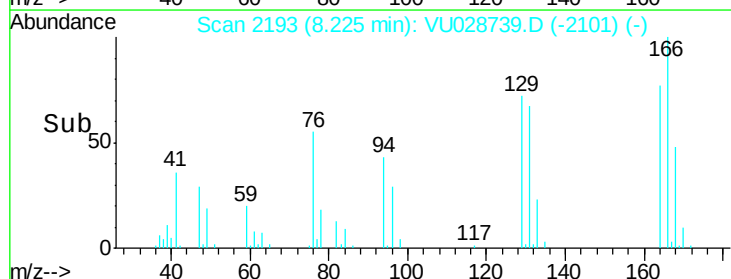
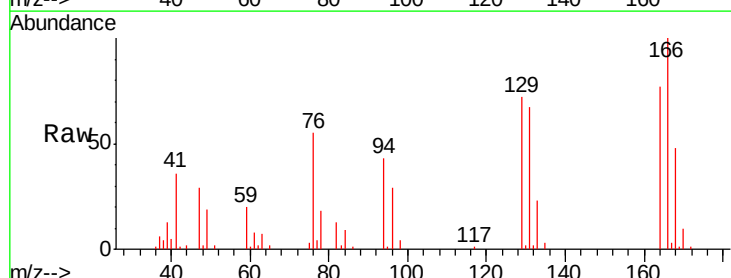
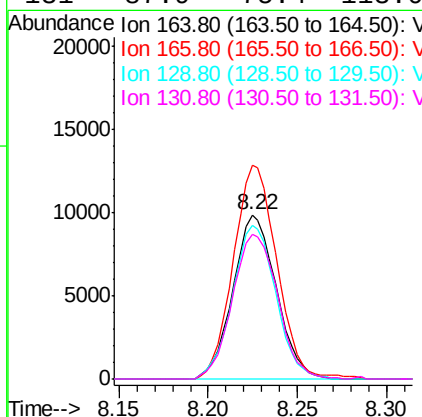
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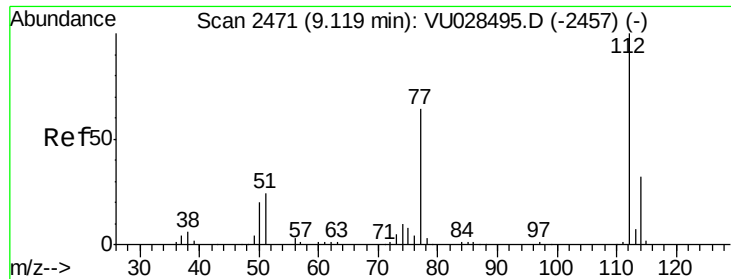
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#64
Tetrachloroethene
Concen: 20.427 ug/l
RT: 8.22 min Scan# 2193
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	16639		
166	130.3	101.9	152.9	
129	93.7	74.9	112.3	
131	87.9	75.4	113.0	





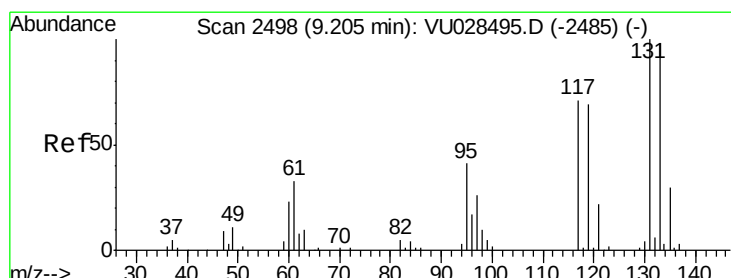
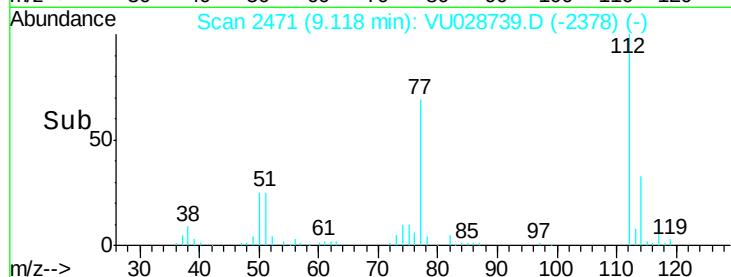
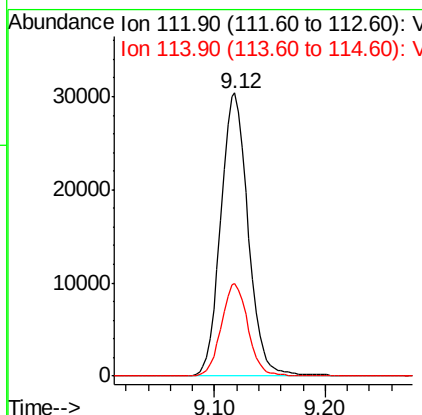
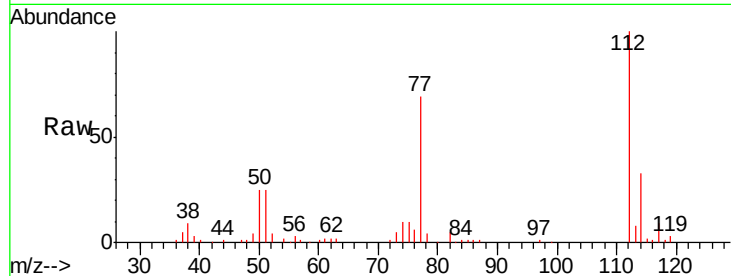
#65
Chlorobenzene
Concen: 20.177 ug/l
RT: 9.12 min Scan# 2471
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Instrument :
MSVOA_U
ClientSampleId :
VU1217WBSD02

Tgt Ion:112 Resp: 52507
Ion Ratio Lower Upper
112 100
114 32.9 25.3 37.9

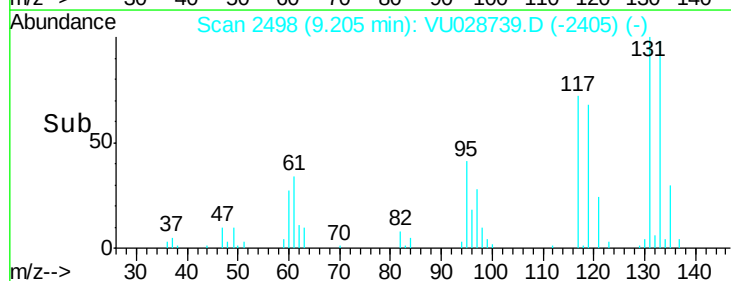
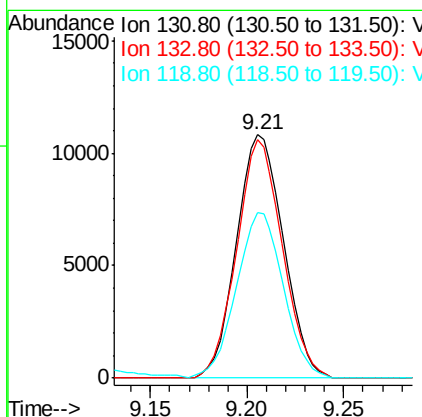
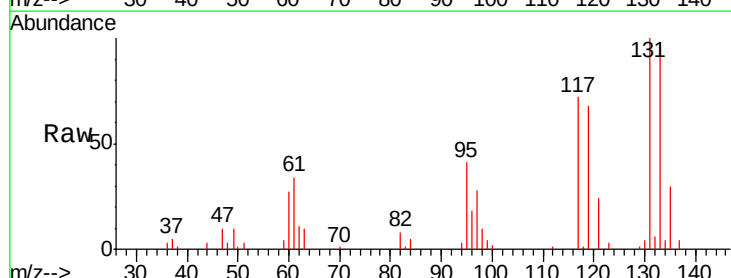
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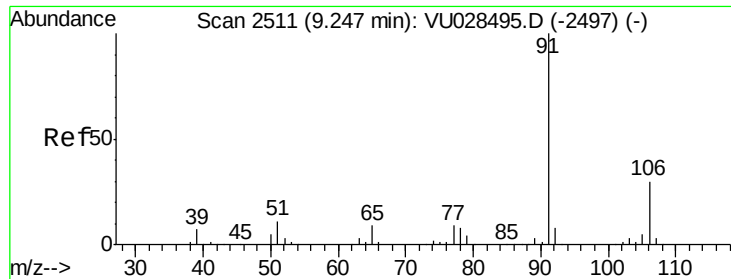
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#66
1,1,1,2-Tetrachloroethane
Concen: 21.961 ug/l
RT: 9.21 min Scan# 2498
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Tgt Ion:131 Resp: 18249
Ion Ratio Lower Upper
131 100
133 95.2 48.0 144.0
119 67.9 34.6 103.9





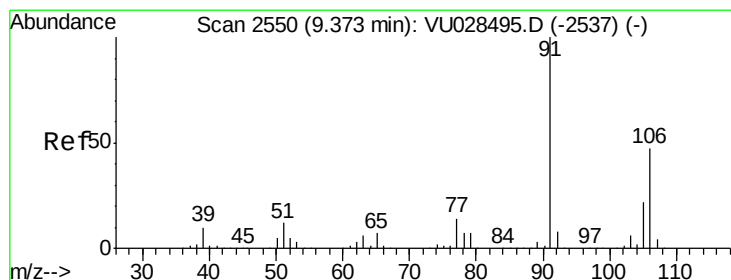
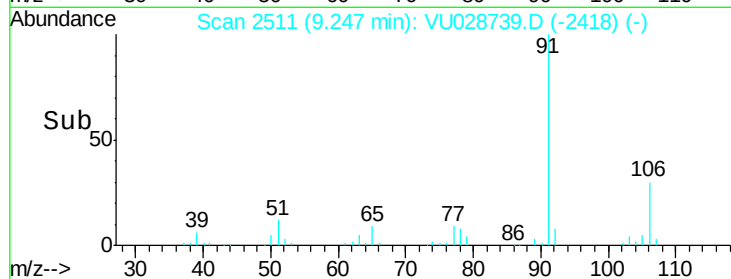
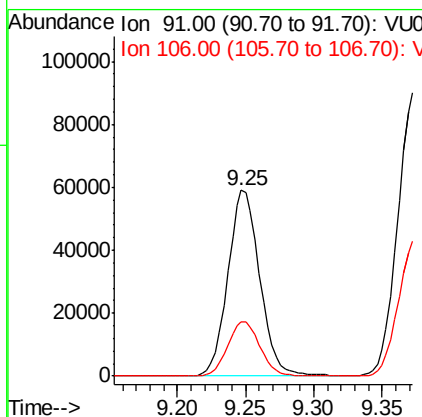
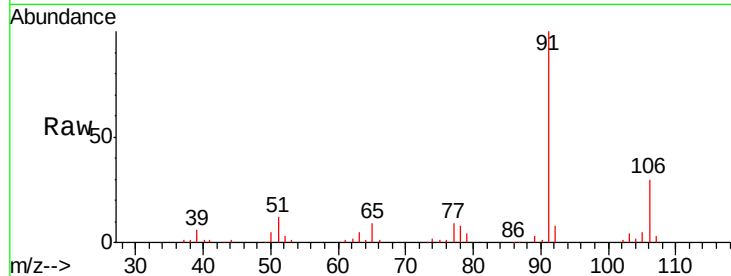
#67
Ethyl Benzene
Concen: 20.096 ug/l
RT: 9.25 min Scan# 2511
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Instrument :
MSVOA_U
ClientSampleId :
VU1217WBSD02

Tgt Ion: 91 Resp: 96135
Ion Ratio Lower Upper
91 100
106 29.5 24.1 36.1

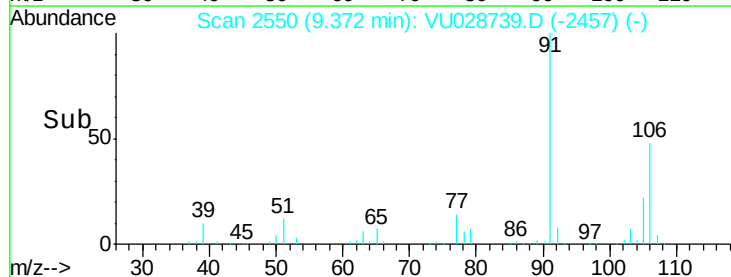
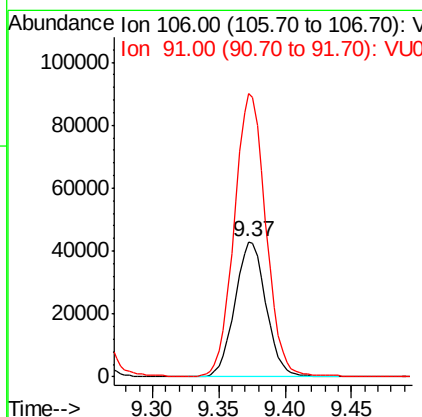
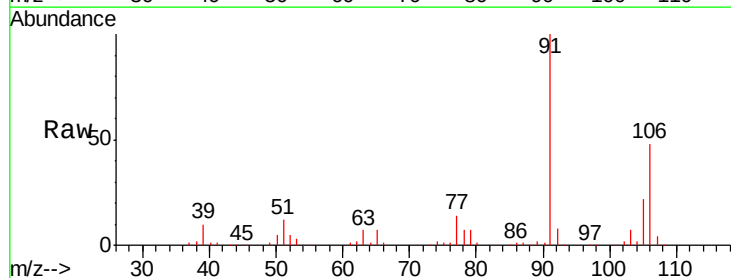
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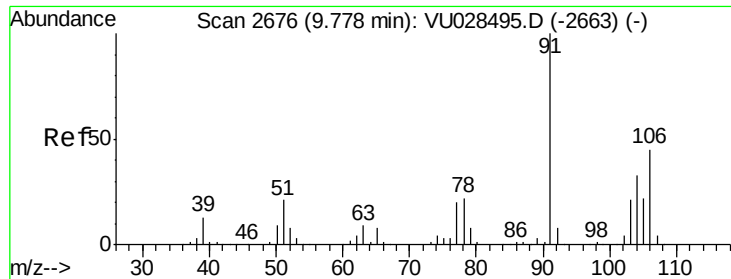
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#68
m/p-Xylenes
Concen: 40.414 ug/l
RT: 9.37 min Scan# 2550
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Tgt Ion: 106 Resp: 70349
Ion Ratio Lower Upper
106 100
91 212.6 167.4 251.0





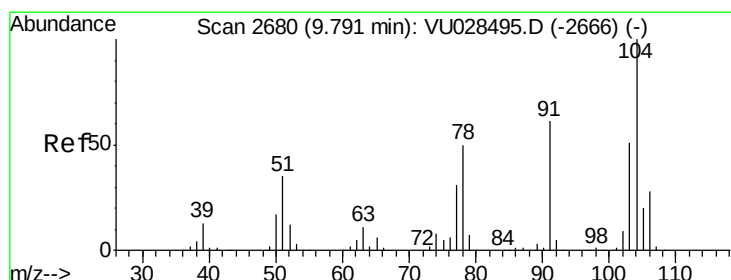
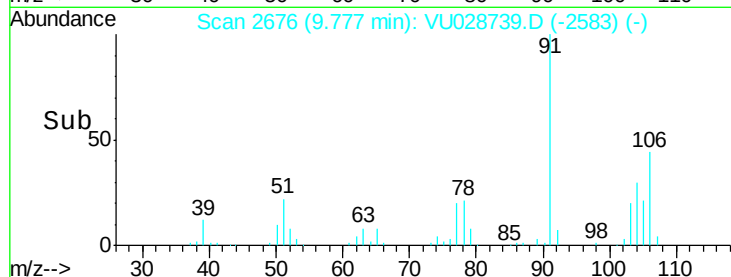
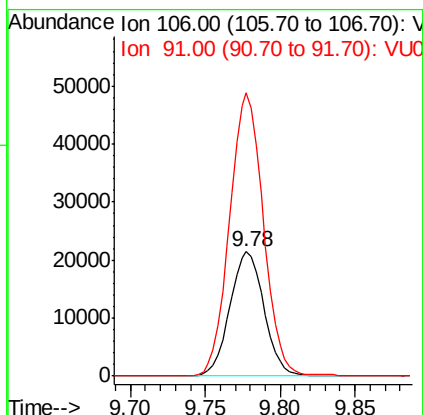
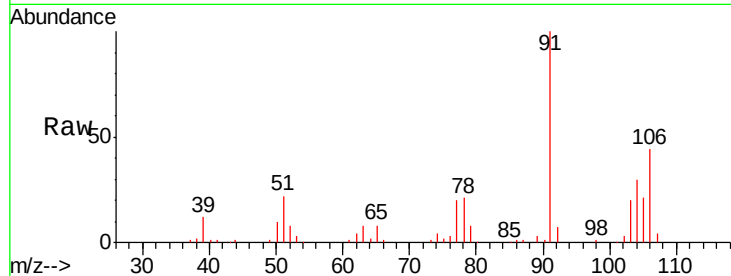
#69
o-Xylene
Concen: 20.172 ug/l
RT: 9.78 min Scan# 2676
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Instrument :
MSVOA_U
ClientSampleId :
VU1217WBSD02

Tgt Ion:106 Resp: 34123
Ion Ratio Lower Upper
106 100
91 224.2 111.3 334.0

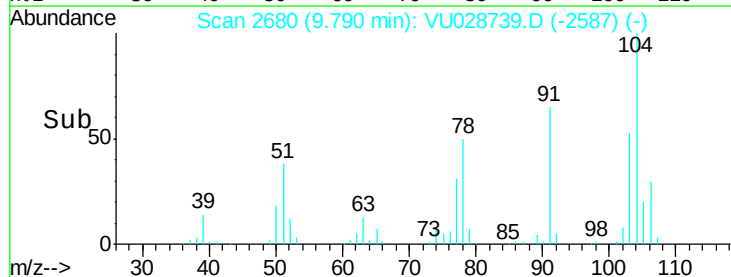
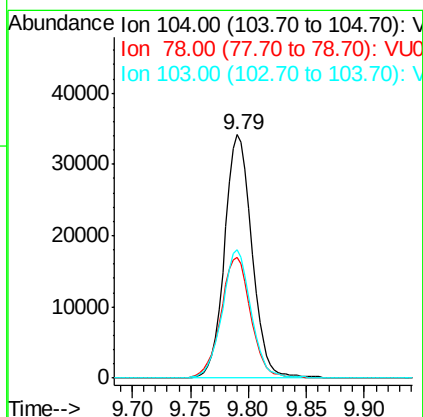
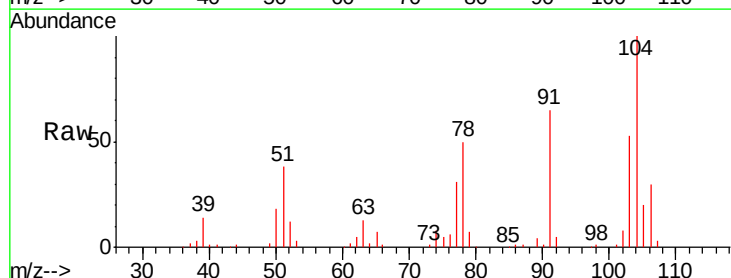
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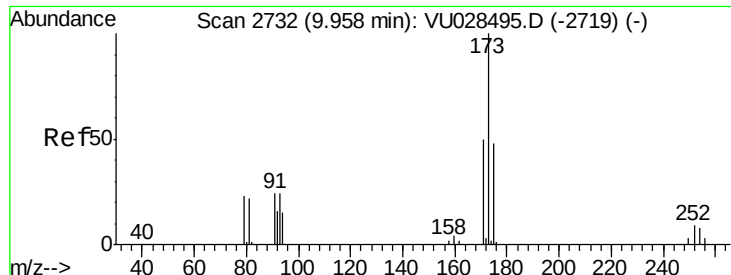
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#70
Styrene
Concen: 20.043 ug/l
RT: 9.79 min Scan# 2680
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Tgt Ion:104 Resp: 56109
Ion Ratio Lower Upper
104 100
78 54.2 43.0 64.6
103 55.4 44.2 66.4





#71

Bromoform

Concen: 21.640 ug/l

RT: 9.96 min Scan# 2732

Delta R.T. -0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Instrument :

MSVOA_U

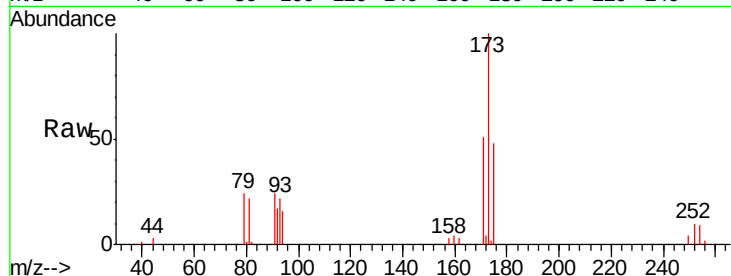
ClientSampleId :

VU1217WBSD02

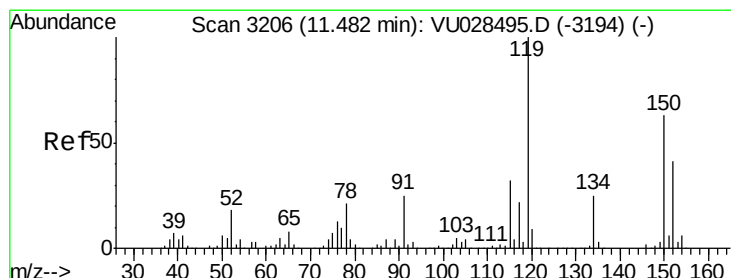
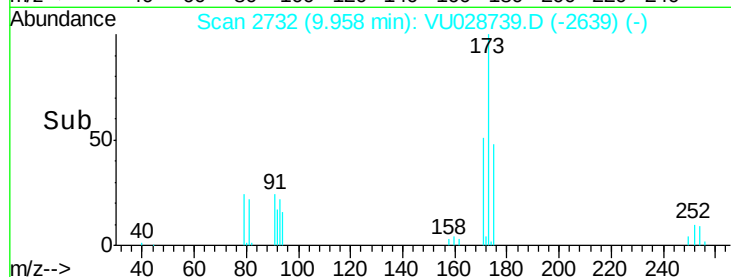
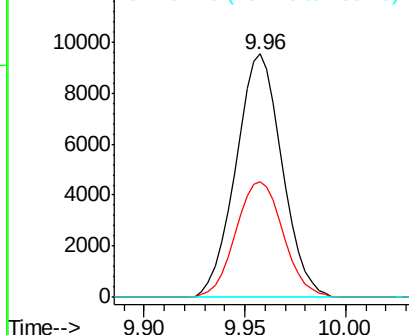
Tgt Ion:	173	Resp:	15298
Ion Ratio	Lower	Upper	
173	100		
175	48.8	23.9	71.8
254	0.0	0.0	0.0

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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

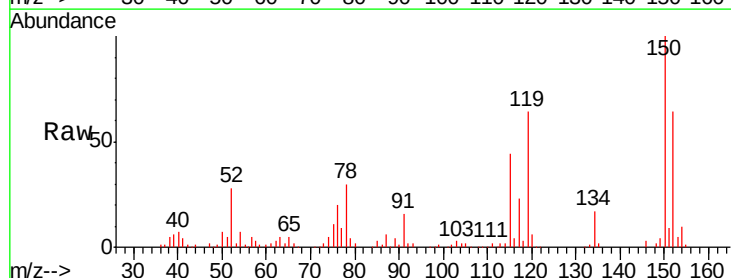
RT: 11.48 min Scan# 3206

Delta R.T. -0.00 min

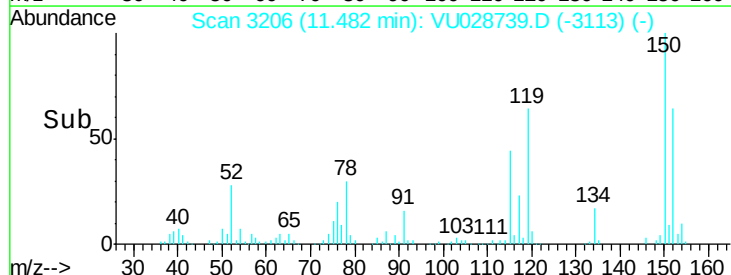
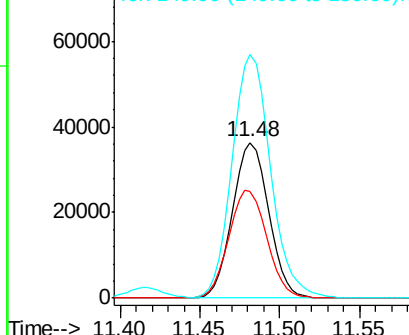
Lab File: VU028739.D

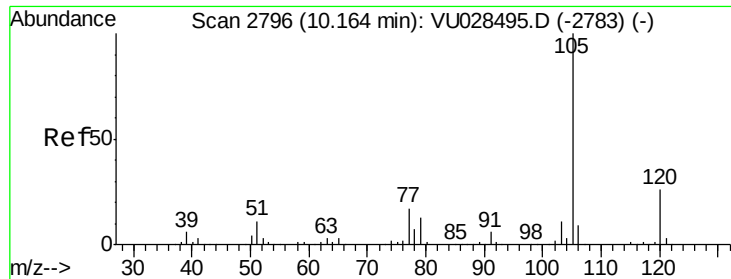
Acq: 17 Dec 2018 23:33

Tgt Ion:	152	Resp:	56066
Ion Ratio	Lower	Upper	
152	100		
115	72.9	42.7	128.1
150	166.8	0.0	346.0



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 21.064 ug/l

RT: 10.16 min Scan# 2796

Delta R.T. -0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Instrument :

MSVOA_U

ClientSampleId :

VU1217WBSD02

Tgt Ion: 105 Resp: 90621

Ion Ratio Lower Upper

105 100

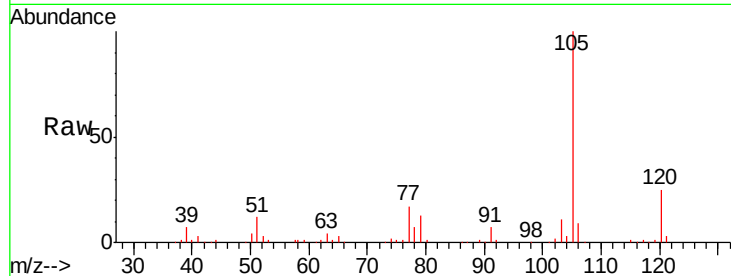
120 25.0 12.9 38.6

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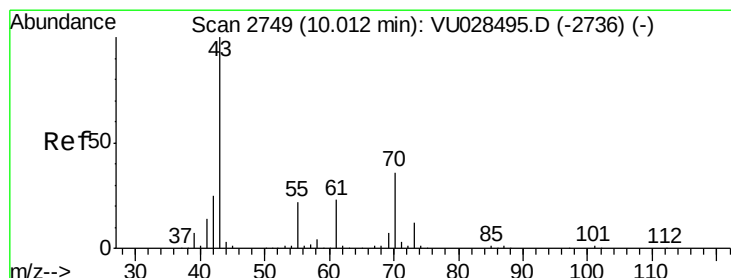
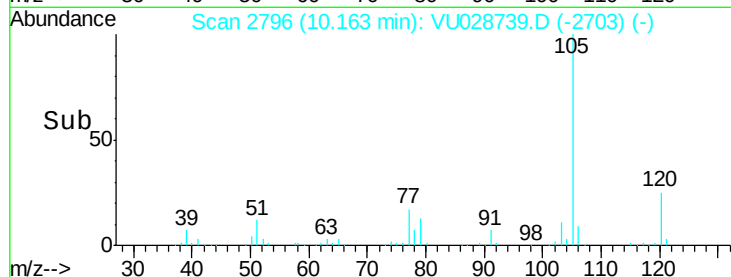
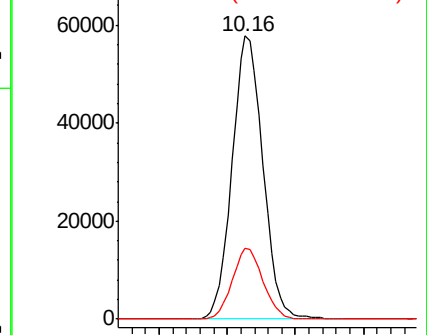
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 22.224 ug/l

RT: 10.01 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Tgt Ion: 43 Resp: 55152

Ion Ratio Lower Upper

43 100

70 35.4 29.3 43.9

55 22.0 18.0 27.0

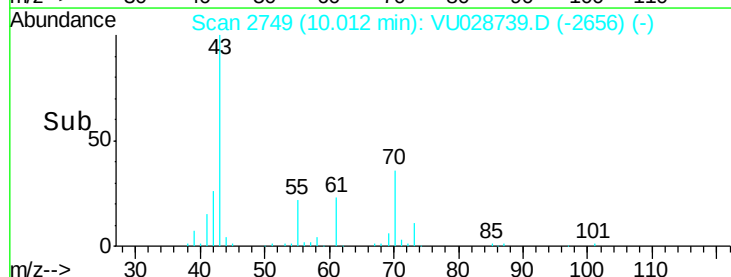
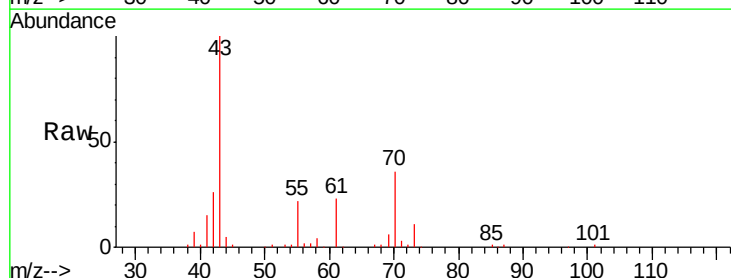
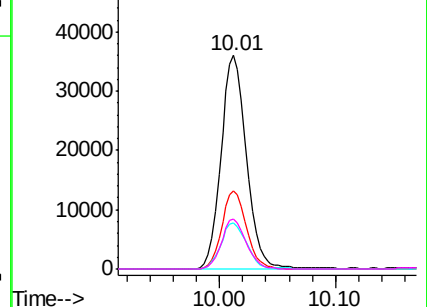
61 22.7 18.3 27.5

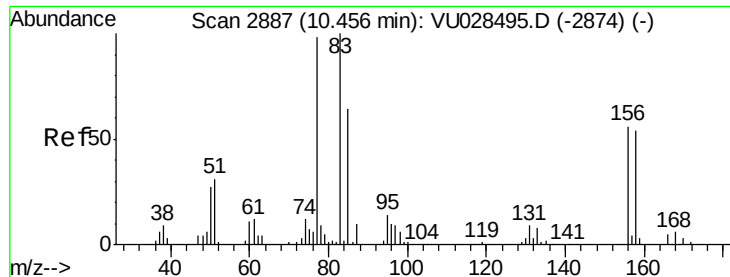
Abundance Ion 43.00 (42.70 to 43.70): VU0

Ion 70.00 (69.70 to 70.70): VU0

Ion 55.00 (54.70 to 55.70): VU0

Ion 61.00 (60.70 to 61.70): VU0





#75

1,1,2,2-Tetrachloroethane

Concen: 23.087 ug/l

RT: 10.46 min Scan# 2887

Delta R.T. -0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Instrument :

MSVOA_U

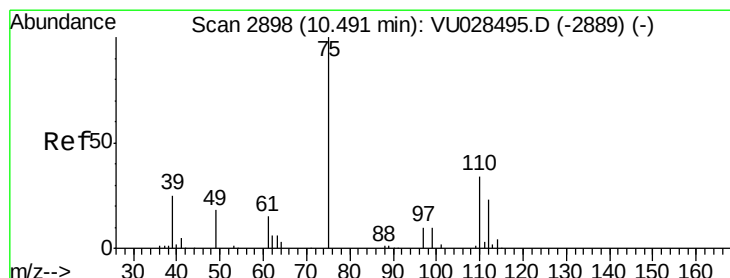
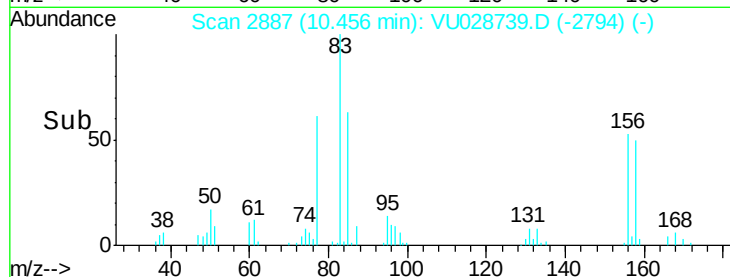
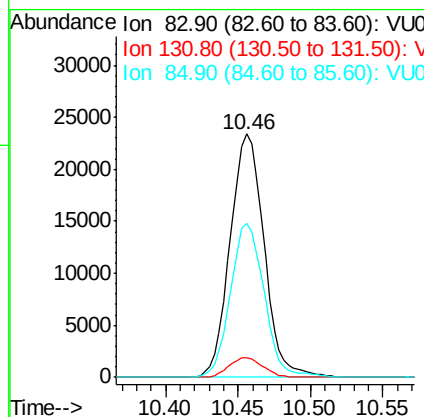
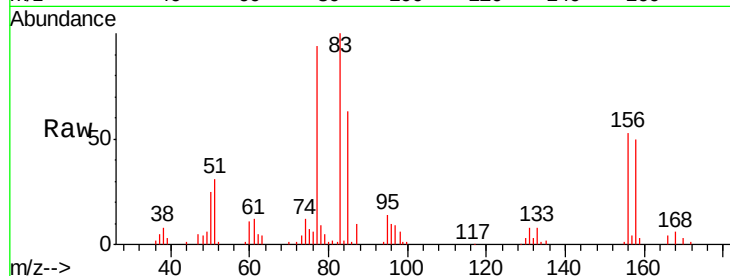
ClientSampleId :

VU1217WBSD02

Tgt Ion:	83	Resp:	38154
Ion Ratio	Lower	Upper	
83	100		
131	8.0	4.2	12.4
85	62.9	31.8	95.4

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#76

1,2,3-Trichloropropane

Concen: 23.330 ug/l m

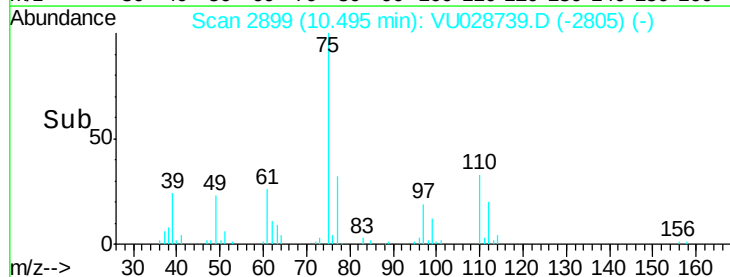
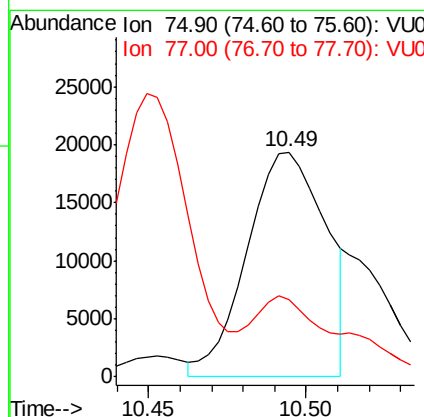
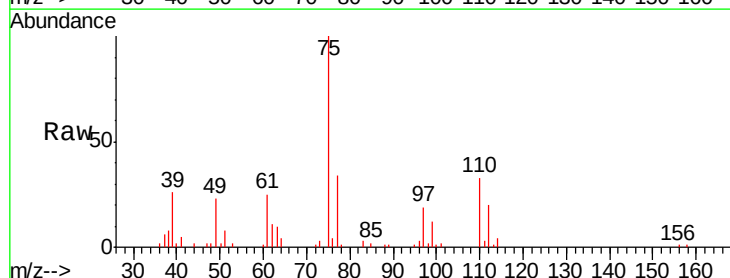
RT: 10.49 min Scan# 2899

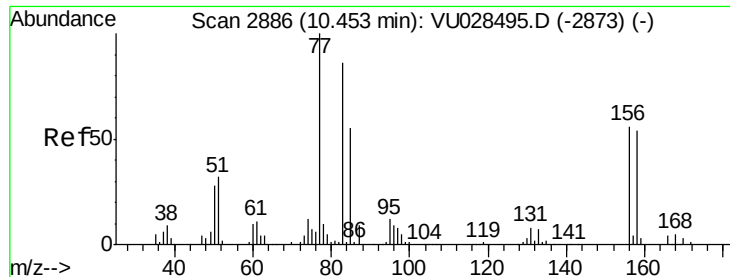
Delta R.T. 0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Tgt Ion:	75	Resp:	33401
Ion Ratio	Lower	Upper	
75	100		
77	41.4	20.8	62.4





#77

Bromobenzene

Concen: 22.117 ug/l

RT: 10.45 min Scan# 2886

Delta R.T. -0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Instrument :

MSVOA_U

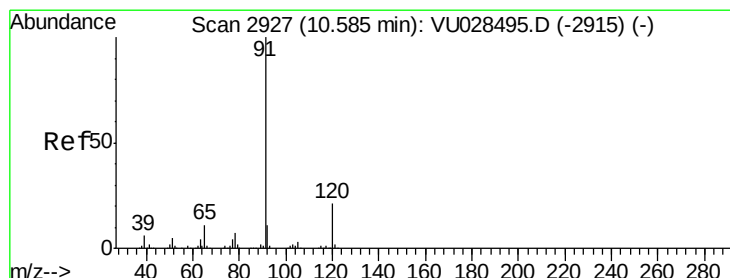
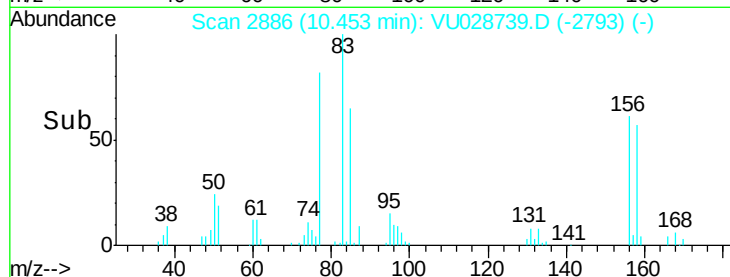
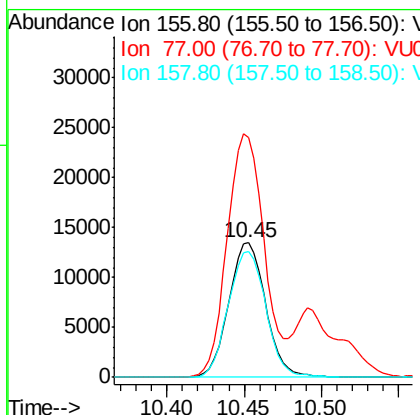
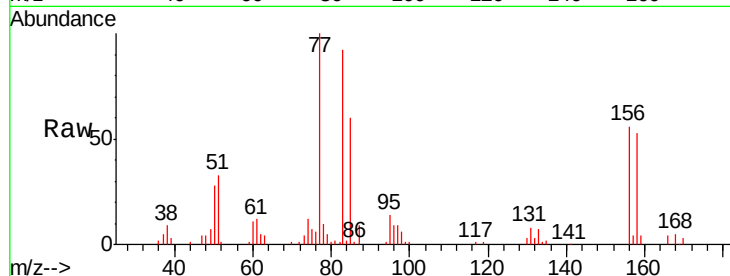
ClientSampleId :

VU1217WBSD02

Tgt Ion: 156 Resp: 22253
 Ion Ratio Lower Upper
 156 100
 77 183.6 92.4 277.2
 158 95.4 48.4 145.3

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#78

n-propylbenzene

Concen: 20.717 ug/l

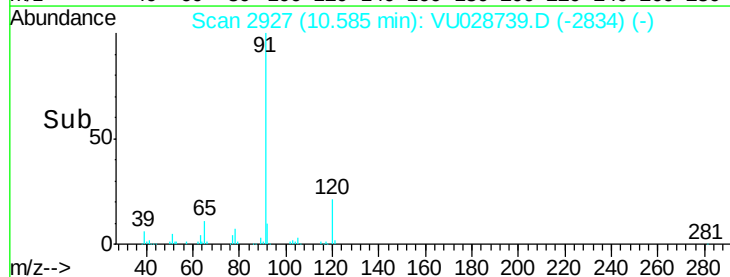
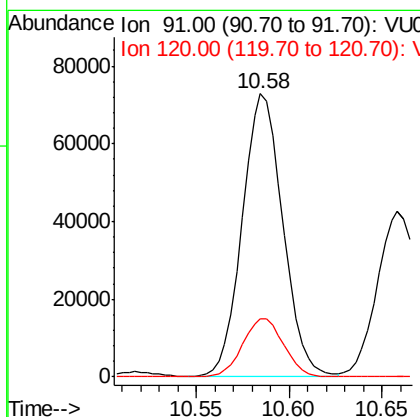
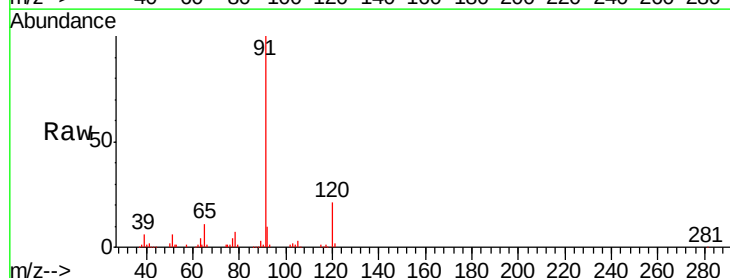
RT: 10.58 min Scan# 2927

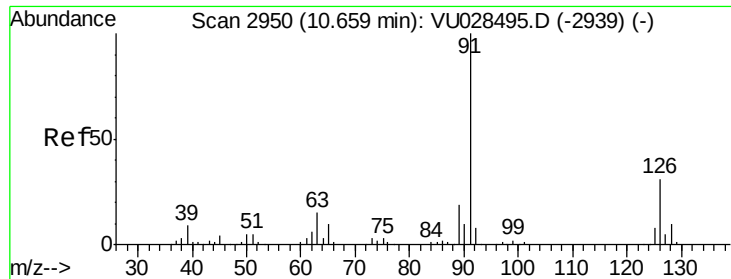
Delta R.T. -0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Tgt Ion: 91 Resp: 110749
 Ion Ratio Lower Upper
 91 100
 120 20.8 10.6 31.8





#79

2-Chlorotoluene

Concen: 21.753 ug/l

RT: 10.66 min Scan# 2950

Delta R.T. -0.00 min

Lab File: VU028739.D

Acq: 17 Dec 2018 23:33

Instrument :

MSVOA_U

ClientSampleId :

VU1217WBSD02

Tgt Ion: 91 Resp: 66983

Ion Ratio Lower Upper

91 100

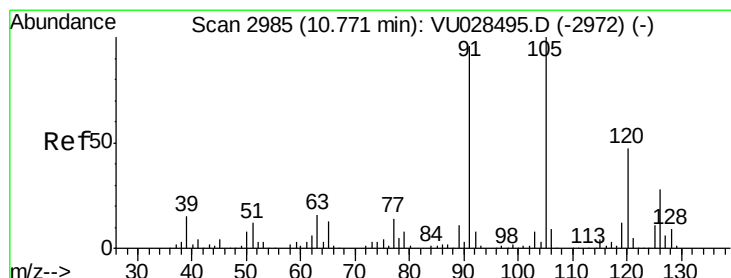
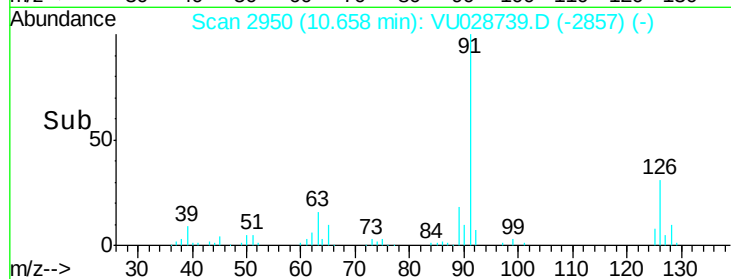
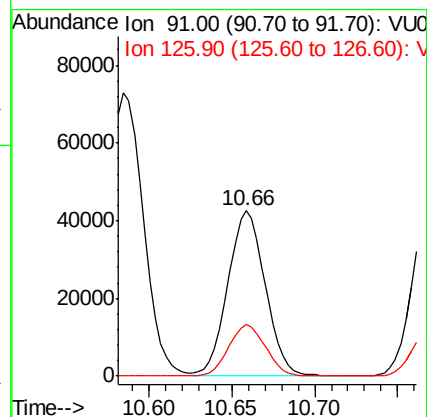
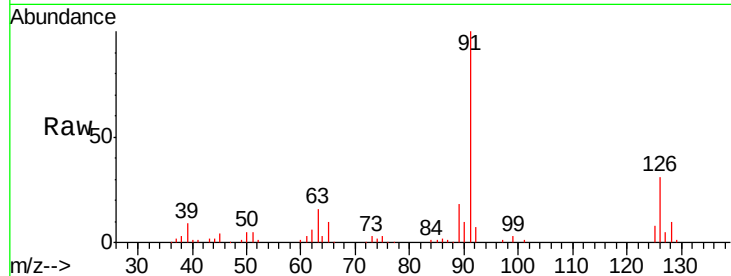
126 30.7 15.6 46.8

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#80

1,3,5-Trimethylbenzene

Concen: 21.503 ug/l

RT: 10.77 min Scan# 2985

Delta R.T. -0.00 min

Lab File: VU028739.D

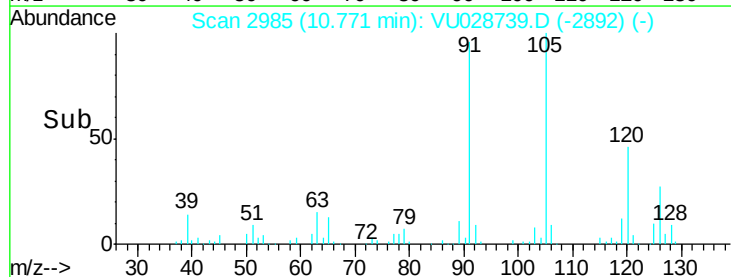
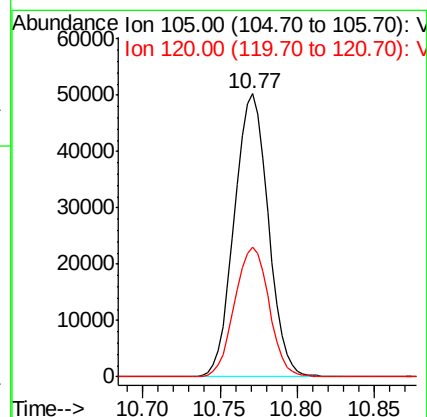
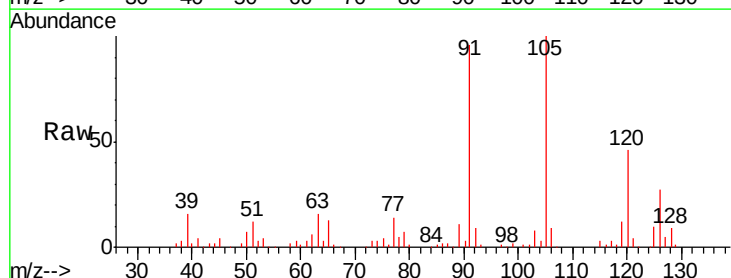
Acq: 17 Dec 2018 23:33

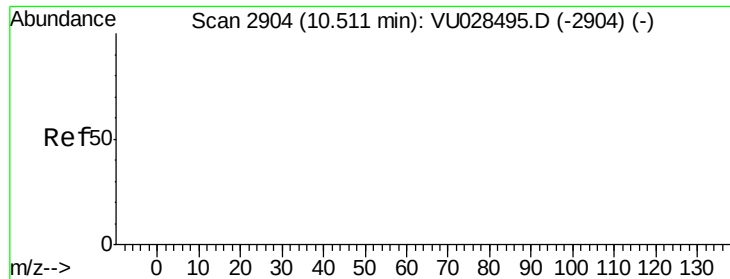
Tgt Ion: 105 Resp: 76575

Ion Ratio Lower Upper

105 100

120 46.3 23.7 71.1





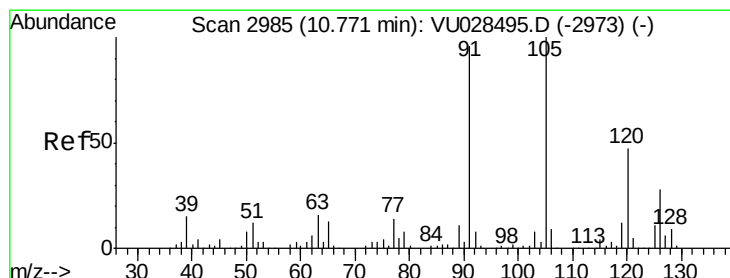
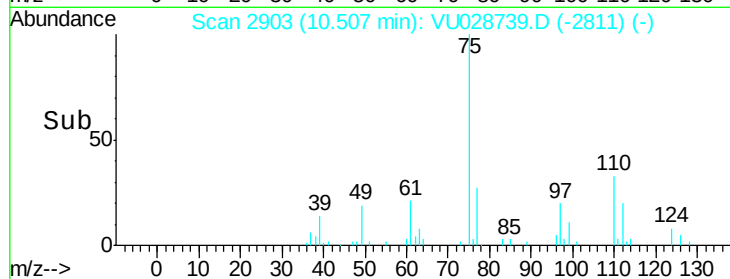
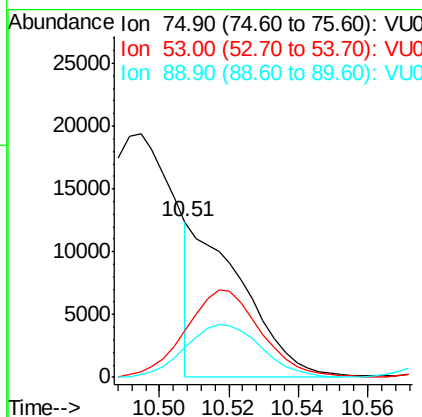
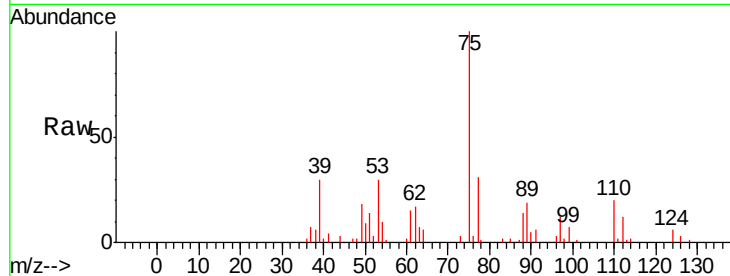
#81
trans-1,4-Dichloro-2-butene
Concen: 22.560 ug/l m
RT: 10.51 min Scan# 2903
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Instrument :
MSVOA_U
ClientSampleId :
VU1217WBSD02

Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	0.0	0.0
89	0.0	0.0	0.0

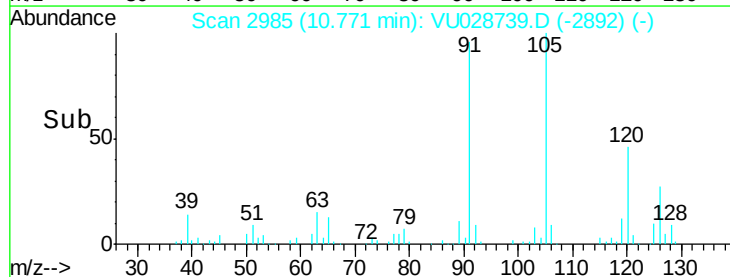
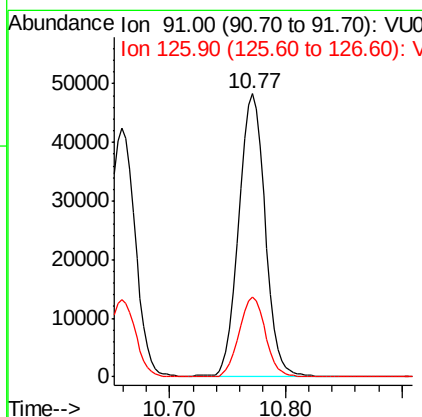
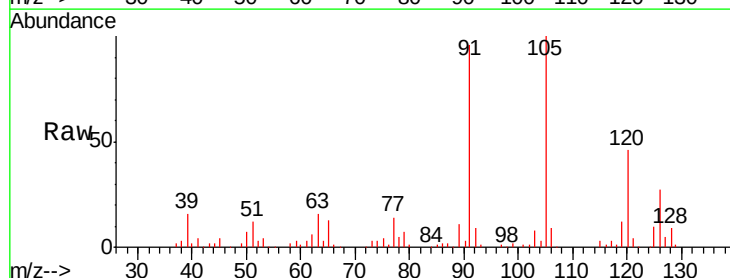
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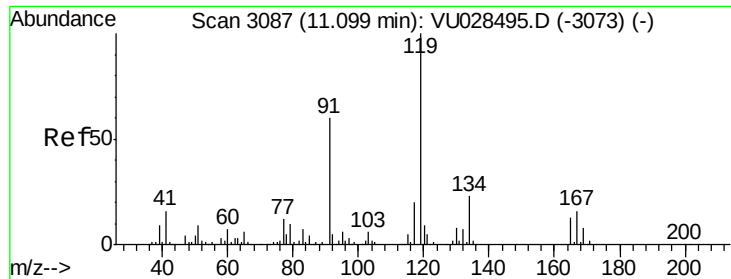
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#82
4-Chlorotoluene
Concen: 20.925 ug/l
RT: 10.77 min Scan# 2985
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Tgt Ion	Ratio	Lower	Upper
91	100		
126	28.0	14.1	42.3





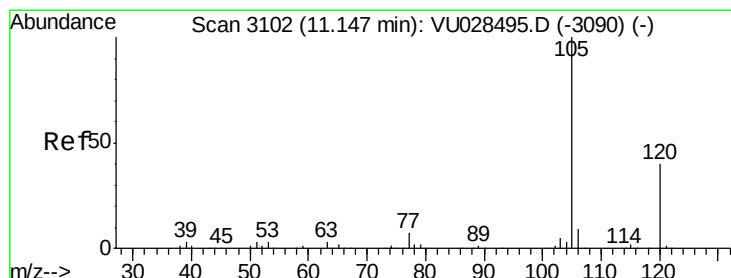
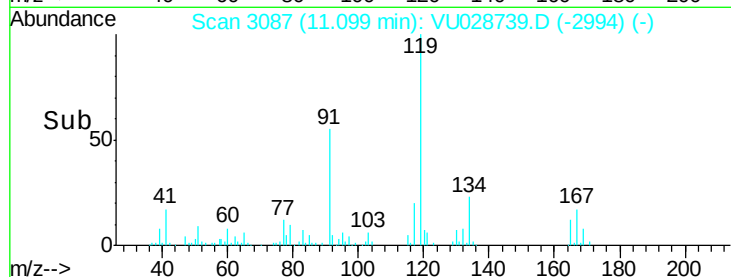
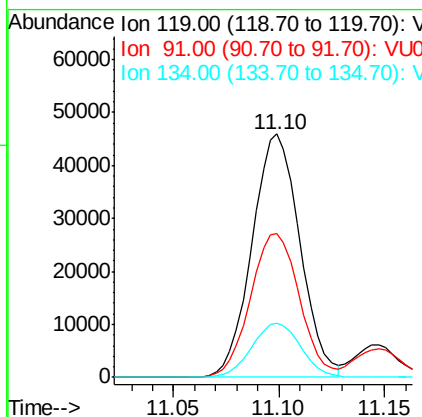
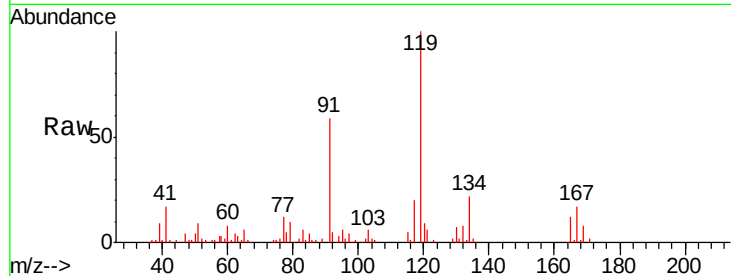
#83
 tert-Butylbenzene
 Concen: 21.160 ug/l
 RT: 11.10 min Scan# 3087
 Delta R.T. -0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1217WBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	72630		
91	60.6	30.3	91.0	
134	22.8	11.2	33.5	

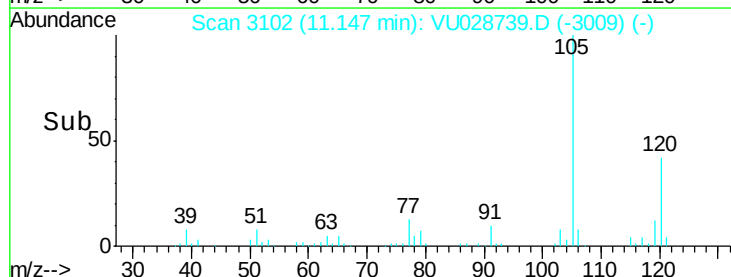
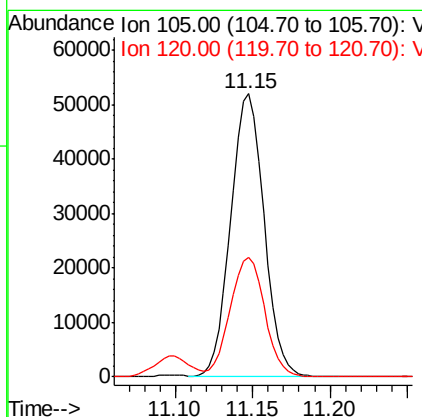
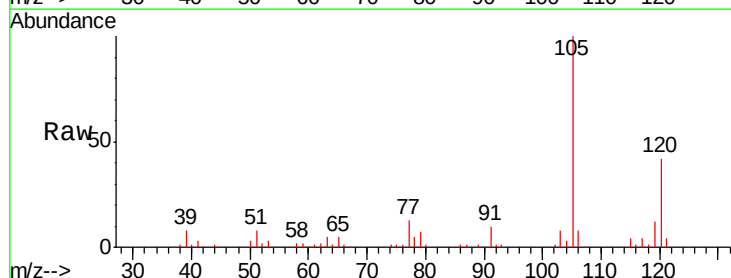
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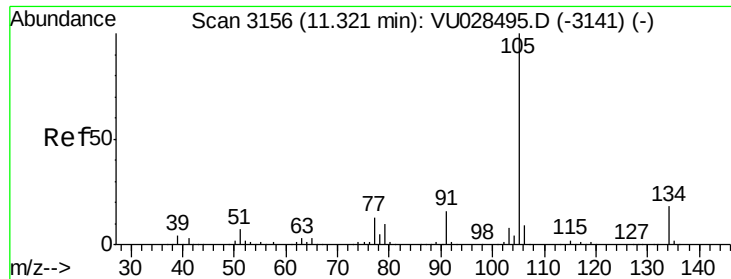
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#84
 1,2,4-Trimethylbenzene
 Concen: 21.266 ug/l
 RT: 11.15 min Scan# 3102
 Delta R.T. -0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	78047		
120	43.6	21.8	65.4	





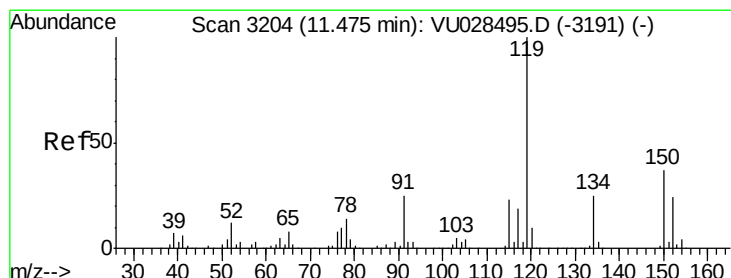
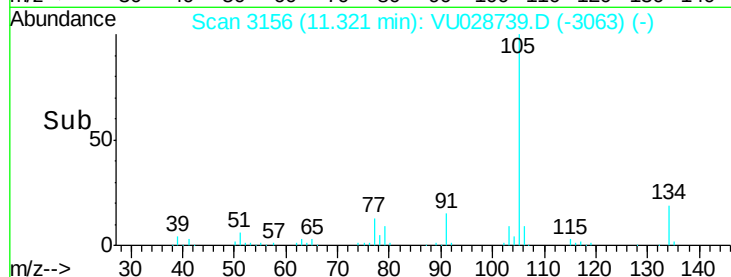
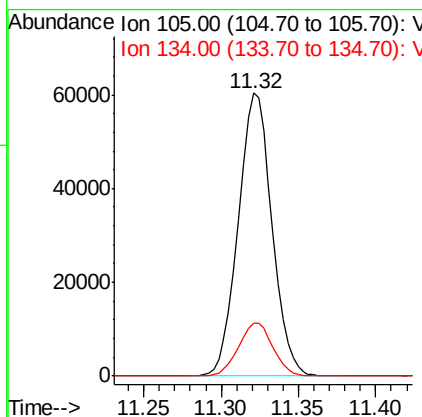
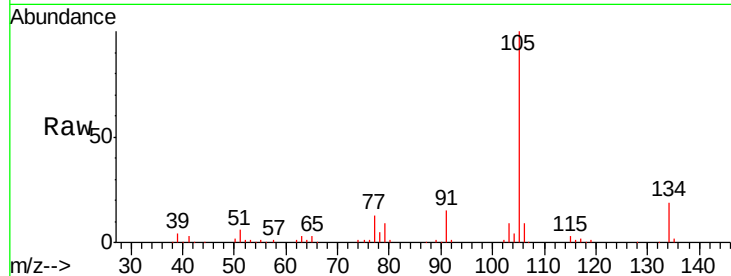
#85
 sec-Butylbenzene
 Concen: 20.705 ug/l
 RT: 11.32 min Scan# 3156
 Delta R.T. -0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1217WBSD02

Tgt Ion:105 Resp: 91301
 Ion Ratio Lower Upper
 105 100
 134 19.1 9.2 27.6

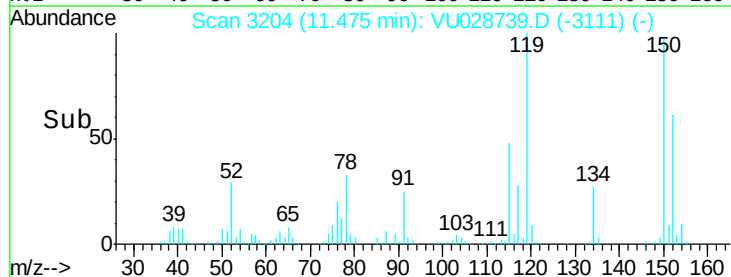
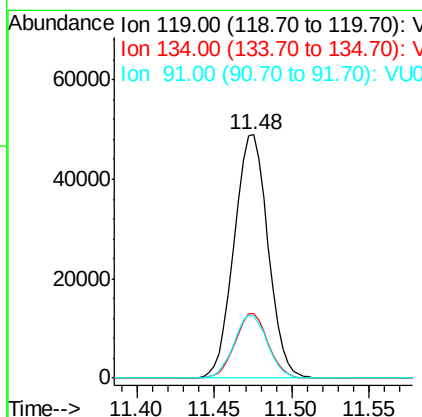
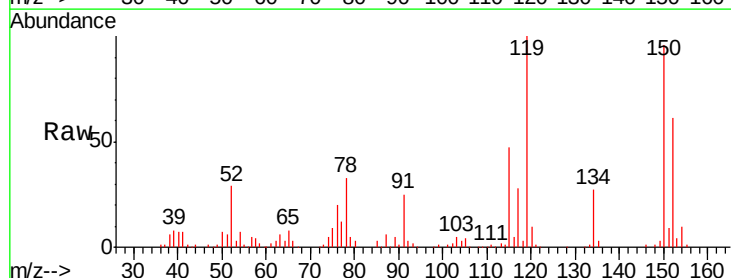
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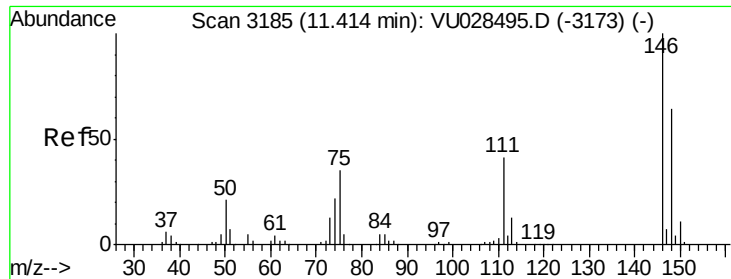
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#86
 p-Isopropyltoluene
 Concen: 19.921 ug/l
 RT: 11.48 min Scan# 3204
 Delta R.T. -0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Tgt Ion:119 Resp: 74622
 Ion Ratio Lower Upper
 119 100
 134 25.7 12.7 38.1
 91 25.5 12.6 37.6





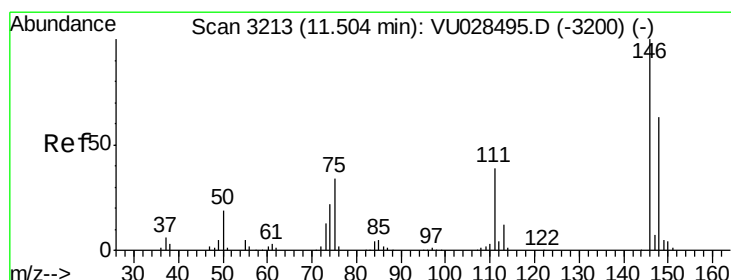
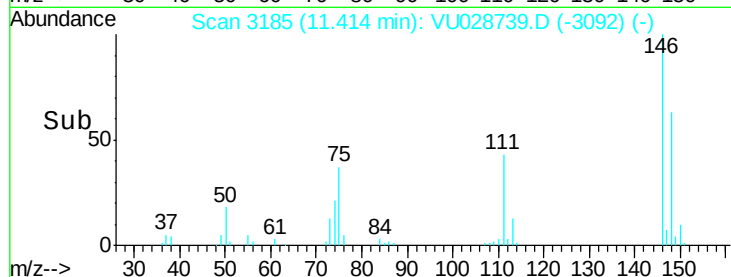
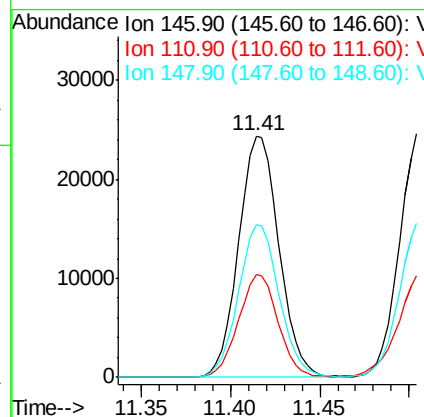
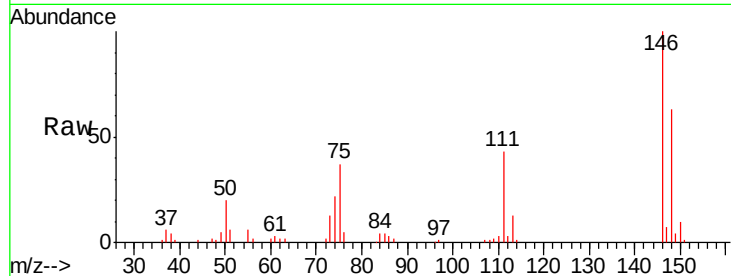
#87
 1,3-Dichlorobenzene
 Concen: 20.291 ug/l
 RT: 11.41 min Scan# 3185
 Delta R.T. -0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1217WBSD02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	41.8	20.7	62.1
148	63.8	31.9	95.7

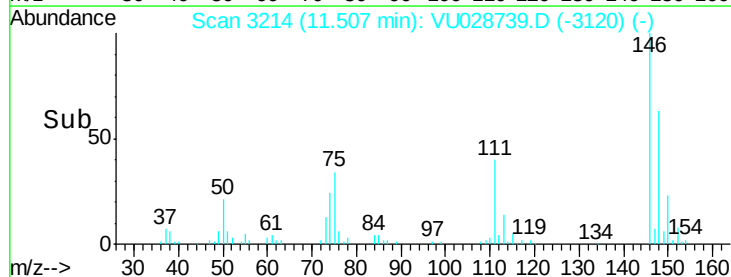
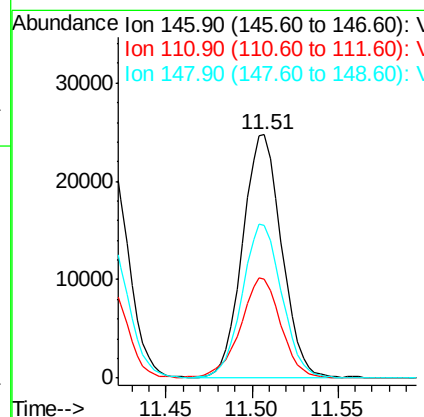
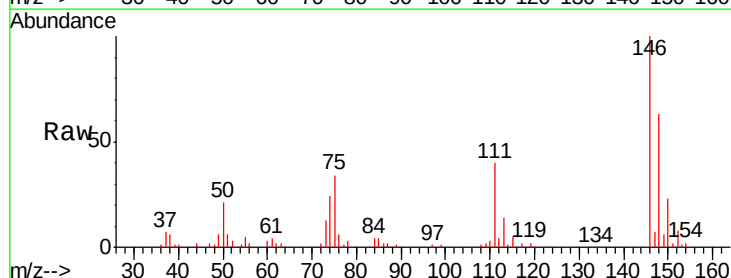
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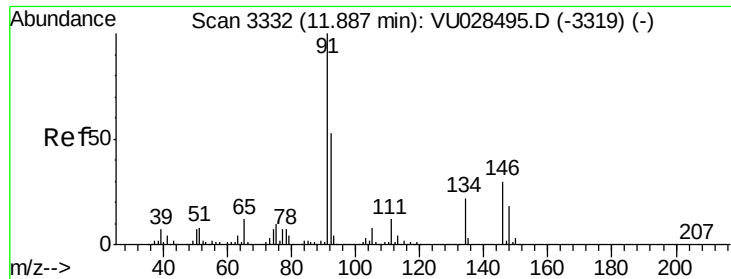
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#88
 1,4-Dichlorobenzene
 Concen: 19.889 ug/l
 RT: 11.51 min Scan# 3214
 Delta R.T. 0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.4	20.2	60.5
148	64.0	31.6	95.0





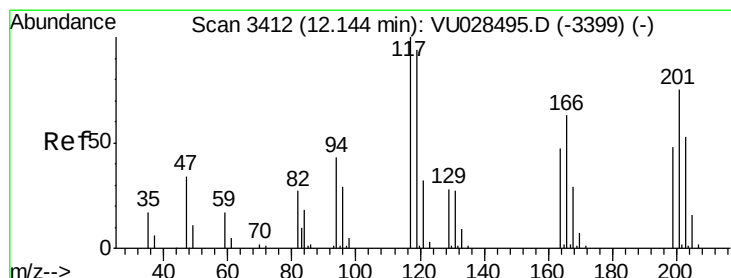
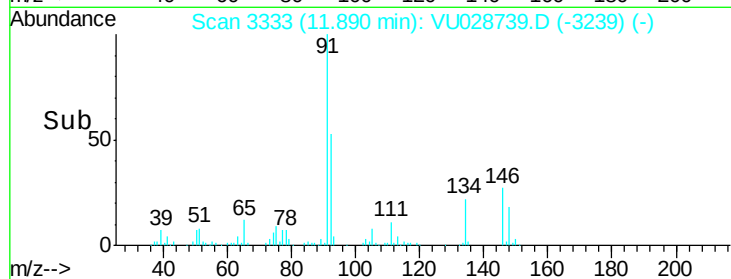
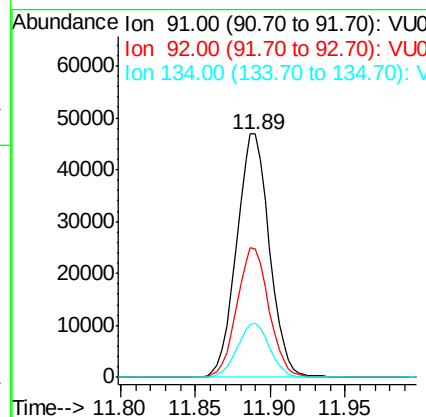
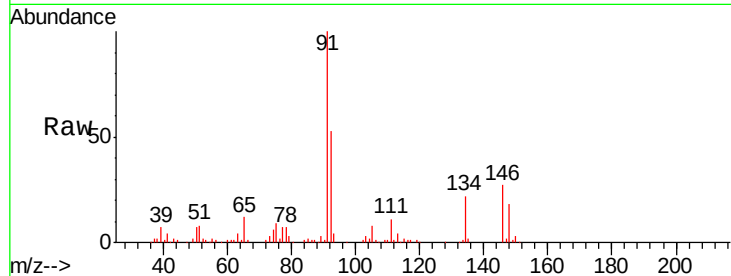
#89
n-Butylbenzene
Concen: 18.916 ug/l
RT: 11.89 min Scan# 3333
Delta R.T. 0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Instrument :
MSVOA_U
ClientSampleId :
VU1217WBSD02

Tgt Ion: 91 Resp: 71709
Ion Ratio Lower Upper
91 100
92 51.9 26.3 78.9
134 21.8 11.3 33.8

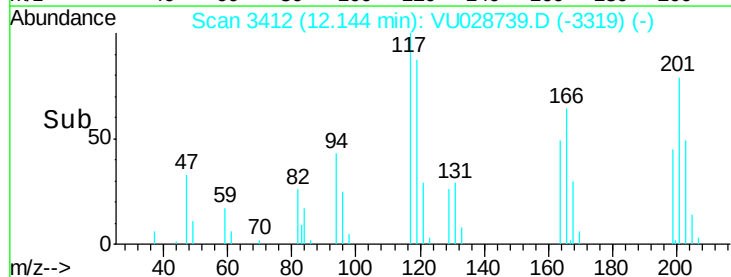
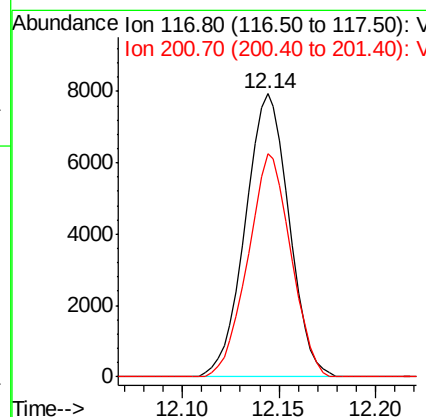
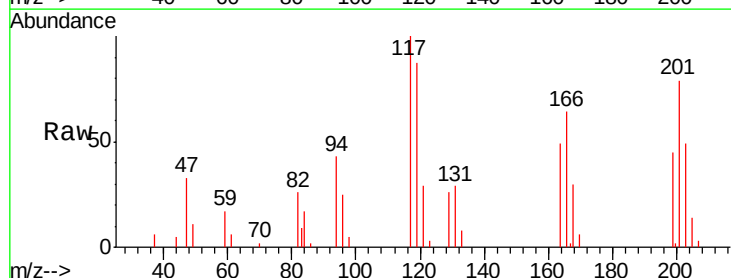
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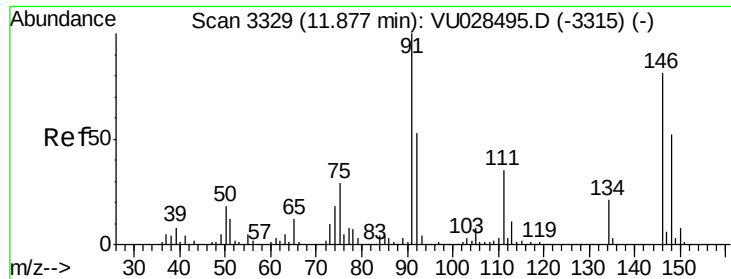
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#90
Hexachloroethane
Concen: 22.085 ug/l
RT: 12.14 min Scan# 3412
Delta R.T. -0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Tgt Ion: 117 Resp: 12504
Ion Ratio Lower Upper
117 100
201 77.5 38.1 114.5





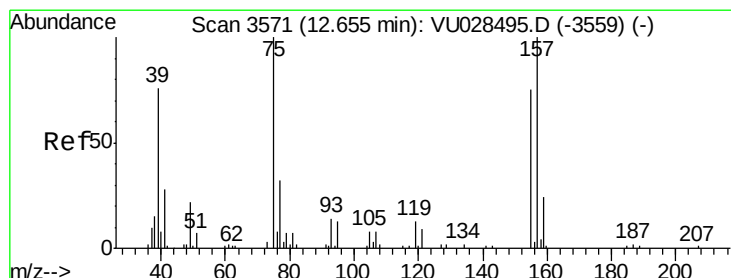
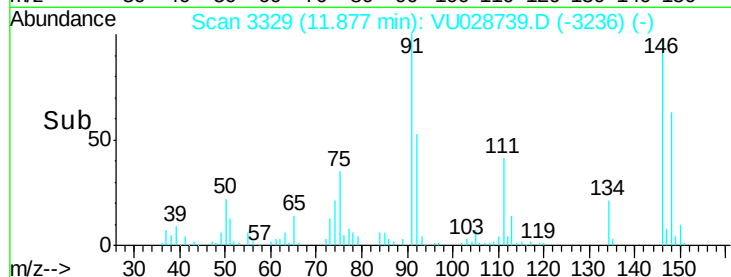
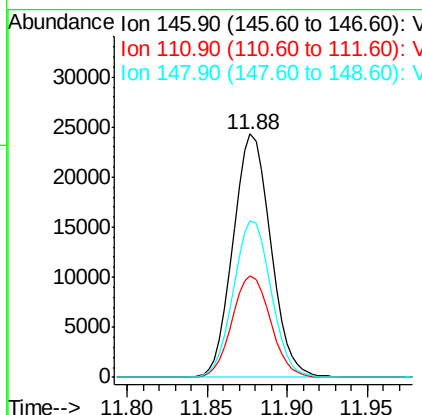
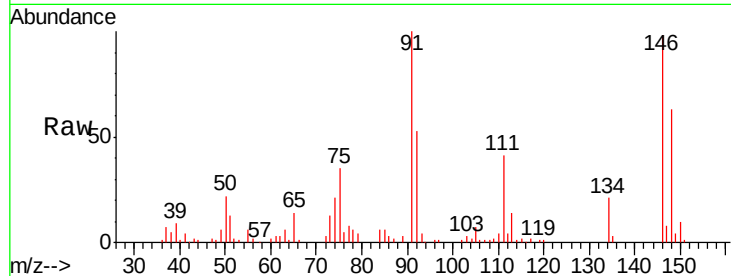
#91
 1,2-Dichlorobenzene
 Concen: 20.546 ug/l
 RT: 11.88 min Scan# 3329
 Delta R.T. -0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1217WBSD02

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.2	21.1	63.4
148	64.2	31.4	94.2

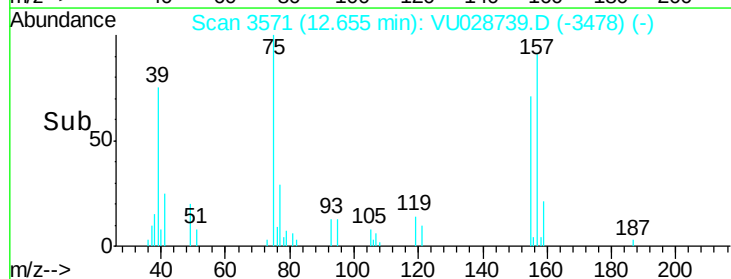
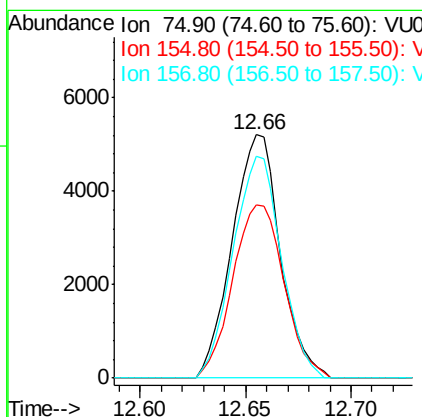
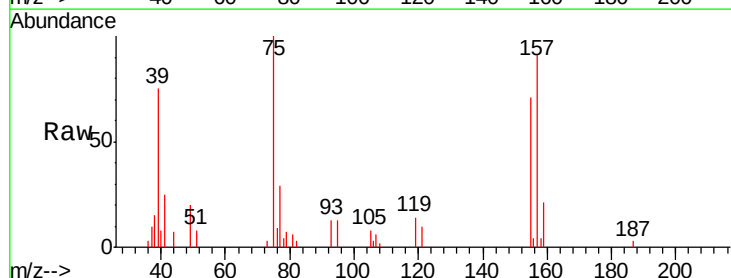
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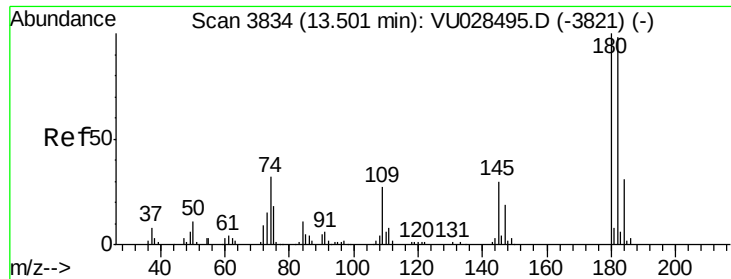
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 23.086 ug/l
 RT: 12.66 min Scan# 3571
 Delta R.T. -0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Tgt Ion	Ratio	Lower	Upper
75	100		
155	75.8	38.1	114.5
157	91.3	48.7	146.1





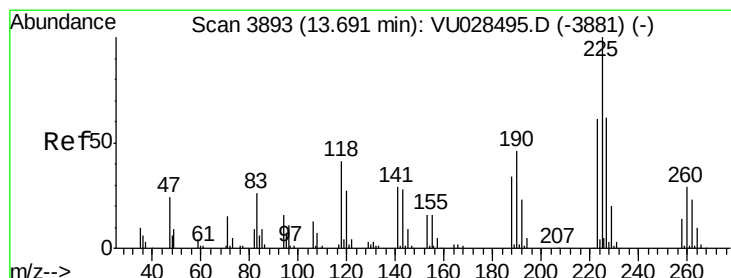
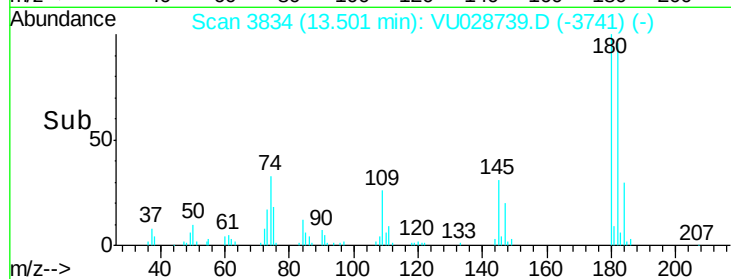
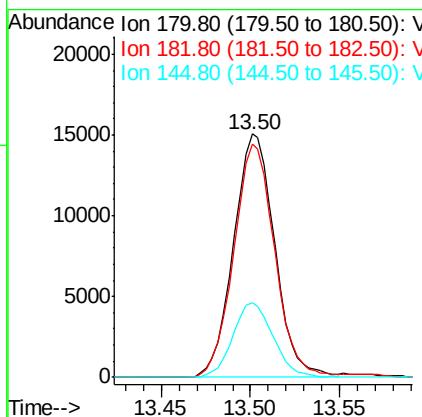
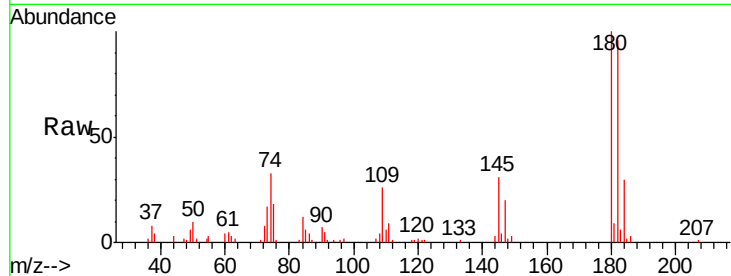
#93
 1,2,4-Trichlorobenzene
 Concen: 19.027 ug/l
 RT: 13.50 min Scan# 3834
 Delta R.T. -0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Instrument :
 MSVOA_U
 ClientSampleId :
 VU1217WBSD02

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	24154		
182	95.6	47.9	143.8	
145	29.9	15.0	45.1	

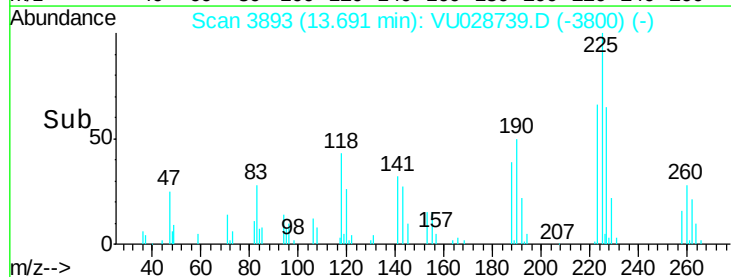
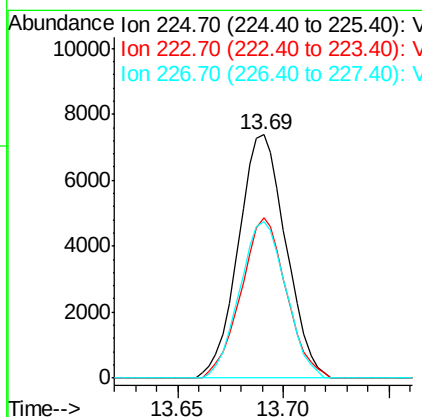
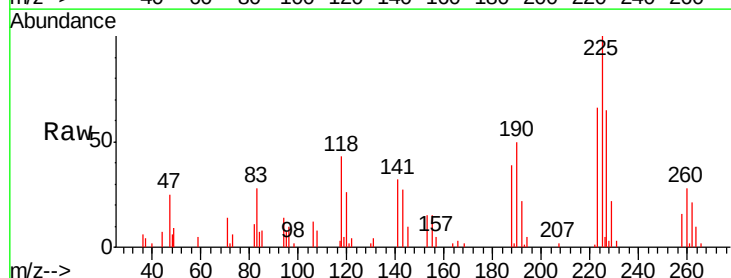
Manual Integrations
 APPROVED

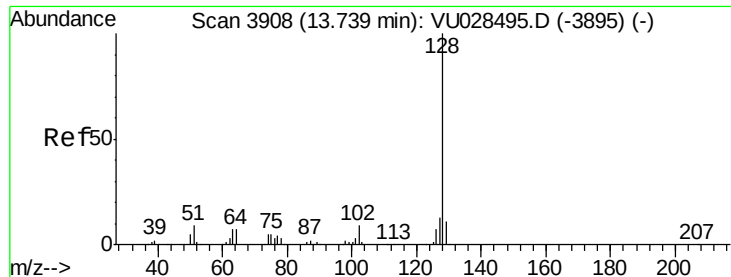
MMDadoda
 12/18/2018 11:31:32 AM



#94
 Hexachlorobutadiene
 Concen: 18.555 ug/l
 RT: 13.69 min Scan# 3893
 Delta R.T. -0.00 min
 Lab File: VU028739.D
 Acq: 17 Dec 2018 23:33

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	11551		
223	62.7	30.4	91.2	
227	62.7	30.7	92.1	





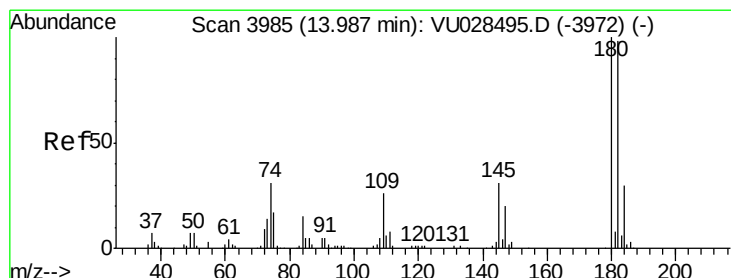
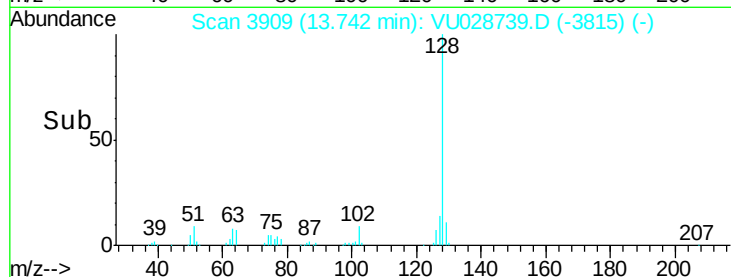
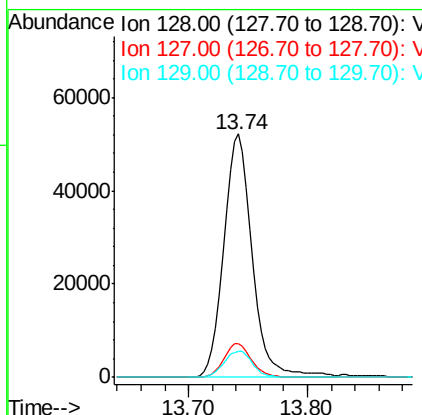
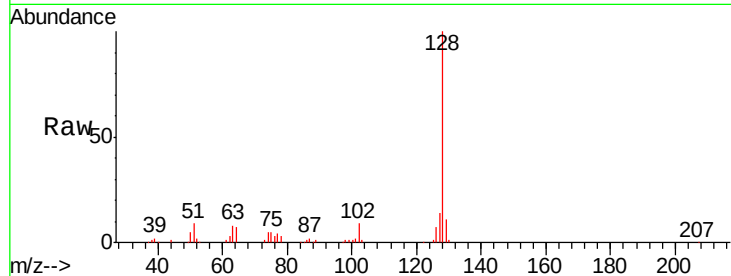
#95
Naphthalene
Concen: 18.963 ug/l
RT: 13.74 min Scan# 3909
Delta R.T. 0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Instrument :
MSVOA_U
ClientSampleId :
VU1217WBSD02

Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.4	10.4	15.6
129	10.9	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/18/2018 11:31:32 AM



#96
1,2,3-Trichlorobenzene
Concen: 20.072 ug/l
RT: 13.99 min Scan# 3985
Delta R.T. 0.00 min
Lab File: VU028739.D
Acq: 17 Dec 2018 23:33

Tgt Ion	Ratio	Lower	Upper
180	100		
182	90.7	48.2	144.6
145	29.0	15.8	47.3

