

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121118\
 Data File : VV008897.D
 Acq On : 11 Dec 2018 13:54
 Operator : SY/MD
 Sample : MDL05
 Misc : 5.00g/10.0 mL/MSVOA V/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Manual Integrations
 APPROVED

sam
 12/12/2018 11:26:56 AM

Quant Time: Dec 12 04:50:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Dec 12 04:31:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.67	114	222665	25.00	ug/L	0.00
28) Chlorobenzene-d5	8.90	117	191575	25.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.30	152	81134	25.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	58613	25.44	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	101.76%
7) Chloroethane-d5	1.58	69	57253	33.63	ug/L	0.00
Spiked Amount	25.000	Range	30 - 150	Recovery	=	134.52%
10) 1,1-Dichloroethene-d2	2.13	63	119389	20.72	ug/L	0.00
Spiked Amount	25.000	Range	45 - 110	Recovery	=	82.88%
20) 2-Butanone-d5	3.94	46	48916	58.31	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	116.62%
24) Chloroform-d	4.40	84	131229	24.52	ug/L	0.00
Spiked Amount	25.000	Range	40 - 150	Recovery	=	98.08%
26) 1,2-Dichloroethane-d4	5.08	65	77242	26.44	ug/L	0.00
Spiked Amount	25.000	Range	70 - 130	Recovery	=	105.76%
29) Benzene-d6	5.10	84	273458	25.56	ug/L	0.00
Spiked Amount	25.000	Range	20 - 135	Recovery	=	102.24%
33) 1,2-Dichloropropane-d6	6.12	67	78653	26.26	ug/L	0.00
Spiked Amount	25.000	Range	70 - 120	Recovery	=	105.04%
37) Toluene-d8	7.36	98	246259	24.87	ug/L	0.00
Spiked Amount	25.000	Range	30 - 130	Recovery	=	99.48%
38) trans-1,3-Dichloropropene-	7.67	79	34010	25.84	ug/L	0.00
Spiked Amount	25.000	Range	30 - 135	Recovery	=	103.36%
39) 2-Hexanone-d5	8.14	63	28964	52.78	ug/L	0.00
Spiked Amount	50.000	Range	20 - 135	Recovery	=	105.56%
48) 1,1,2,2-Tetrachloroethane-	10.26	84	61746	24.57	ug/L	0.00
Spiked Amount	25.000	Range	45 - 120	Recovery	=	98.28%
61) 1,2-Dichlorobenzene-d4	11.68	152	74556	24.49	ug/L	0.00
Spiked Amount	25.000	Range	75 - 120	Recovery	=	97.96%

Target Compounds

					Ovalue
2) Dichlorodifluoromethane	1.14	85	5742	1.573 ug/L	95
3) Chloromethane	1.25	50	3594	1.433 ug/L	99
5) Vinyl chloride	1.32	62	3908	1.396 ug/L #	58
6) Bromomethane	1.53	94	2560	1.902 ug/L	87
8) Chloroethane	1.60	64	2998	1.912 ug/L	92
9) Trichlorofluoromethane	1.77	101	8001	1.668 ug/L	97
11) 1,1,2-Trichloro-1,2,2-trif	2.13	101	6187	1.881 ug/L #	83
12) 1,1-Dichloroethene	2.14	96	5151	1.795 ug/L #	1
13) Acetone	2.20	43	4443	3.595 ug/L	89
14) Carbon disulfide	2.32	76	12177	1.321 ug/L	95
15) Methyl Acetate	2.46	43	2328	1.485 ug/L #	71
16) Methylene chloride	2.54	84	10726	2.861 ug/L	98
17) Methyl tert-butyl Ether	2.80	73	8970	1.376 ug/L	94
18) trans-1,2-Dichloroethene	2.79	96	4319	1.393 ug/L	93
19) 1,1-Dichloroethane	3.23	63	6394	1.272 ug/L	95
21) 2-Butanone	4.03	43	2864m	2.472 ug/L	
22) cis-1,2-Dichloroethene	3.96	96	4378m	1.354 ug/L	

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121118\
 Data File : VV008897.D
 Acq On : 11 Dec 2018 13:54
 Operator : SY/MD
 Sample : MDL05
 Misc : 5.00g/10.0 mL/MSVOA V/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Manual Integrations
 APPROVED

sam
 12/12/2018 11:26:56 AM

Quant Time: Dec 12 04:50:01 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
 Quant Title : VOC Analysis
 QLast Update : Wed Dec 12 04:31:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

23) Bromochloromethane	4.30	128	2048m	1.344	ug/L	
25) Chloroform	4.42	83	9205m	1.706	ug/L	
27) 1,2-Dichloroethane	5.18	62	5194	1.413	ug/L	99
30) Cyclohexane	4.73	56	6396m	1.326	ug/L	
31) 1,1,1-Trichloroethane	4.66	97	6688	1.354	ug/L	97
32) Carbon tetrachloride	4.88	117	6027	1.337	ug/L	99
34) Benzene	5.15	78	15362	1.338	ug/L	100
35) Trichloroethene	5.96	95	5137	1.485	ug/L	97
36) Methylcyclohexane	6.18	83	7663	1.389	ug/L #	93
40) 1,2-Dichloropropane	6.23	63	3960	1.438	ug/L #	91
41) Bromodichloromethane	6.56	83	4793	1.320	ug/L	96
42) cis-1,3-Dichloropropene	7.07	75	5858	1.453	ug/L	94
43) 4-Methyl-2-pentanone	7.28	43	5628	3.023	ug/L	94
44) Toluene	7.43	91	17804	1.479	ug/L	99
45) trans-1,3-Dichloropropene	7.69	75	4654	1.324	ug/L	90
46) 1,1,2-Trichloroethane	7.88	97	3017	1.314	ug/L	90
47) Tetrachloroethene	8.02	164	3685	1.309	ug/L	96
49) 2-Hexanone	8.19	43	5803	3.767	ug/L #	51
50) Dibromochloromethane	8.29	129	3368	1.280	ug/L	91
51) 1,2-Dibromoethane	8.40	107	3164	1.373	ug/L #	96
52) Chlorobenzene	8.93	112	10956	1.398	ug/L	96
53) Ethylbenzene	9.06	91	16773	1.284	ug/L	96
54) m,p-Xylene	9.18	106	6282	1.271	ug/L	98
55) o-xylene	9.59	106	5613	1.222	ug/L	92
56) Styrene	9.61	104	8780	1.185	ug/L	95
57) Isopropylbenzene	9.98	105	15473	1.239	ug/L	98
58) 1,1,1,2,2-Tetrachloroethane	10.29	83	3639	1.467	ug/L #	75
59) 1,2,3-Trichloropropane	10.32	75	3423	1.594	ug/L	98
62) Bromoform	9.78	173	1981	1.352	ug/L #	96
63) 1,3-Dichlorobenzene	11.23	146	6949	1.329	ug/L	93
64) 1,4-Dichlorobenzene	11.32	146	7354	1.367	ug/L	97
65) 1,2-Dichlorobenzene	11.69	146	6965	1.445	ug/L	95
66) 1,2-Dibromo-3-chloropropan	12.48	75	554m	1.403	ug/L	
67) 1,3,5-Trichlorobenzene	12.70	180	4265	1.129	ug/L	97
68) 1,2,4-trichlorobenzene	13.32	180	2608	0.986	ug/L	98
69) Naphthalene	13.56	128	4019	0.882	ug/L #	79
70) 1,2,3-Trichlorobenzene	13.80	180	2221	0.909	ug/L	96

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

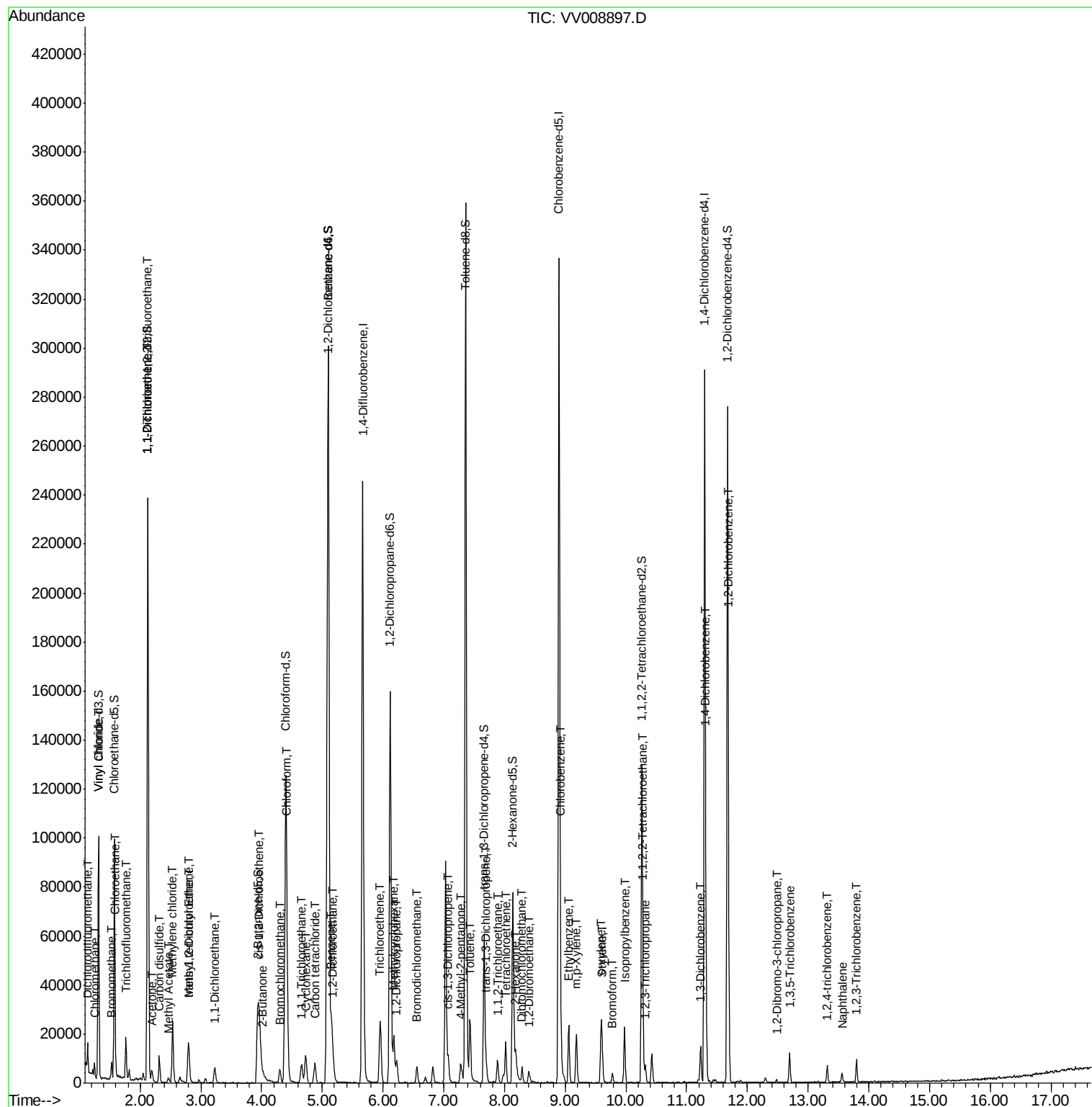
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV121118\
Data File : VV008897.D
Acq On : 11 Dec 2018 13:54
Operator : SY/MD
Sample : MDL05
Misc : 5.00µ/10.0 mL/MSVOA V/SOIL
ALS Vial : 8 Sample Multiplier: 1

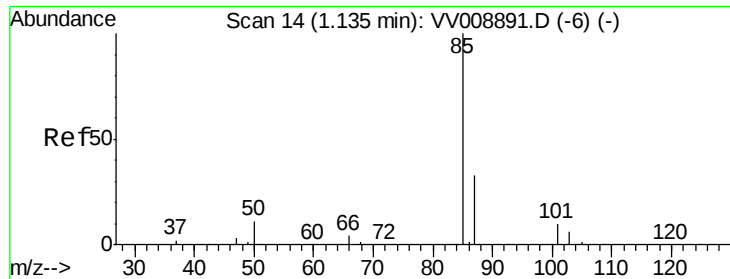
Instrument :
MSVOA_V
ClientSampleId :
MDL05

Manual Integrations
APPROVED

sam
12/12/2018 11:26:56 AM

Quant Time: Dec 12 04:50:01 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM120618S.M
Quant Title : VOC Analysis
QLast Update : Wed Dec 12 04:31:38 2018
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.573 ug/L

RT: 1.14 min Scan# 14

Delta R.T. -0.00 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Instrument :

MSVOA_V

ClientSampleId :

MDL05

Tot Ion: 85 Resp: 5742

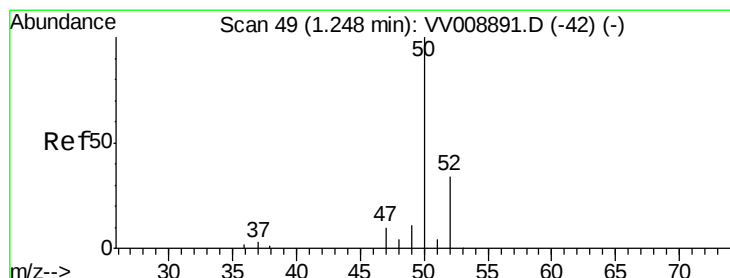
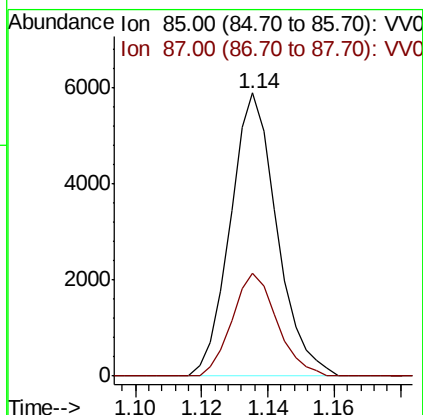
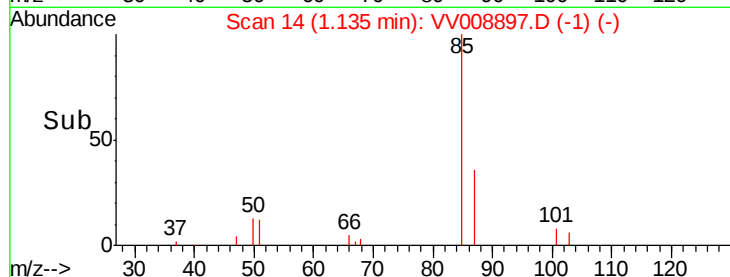
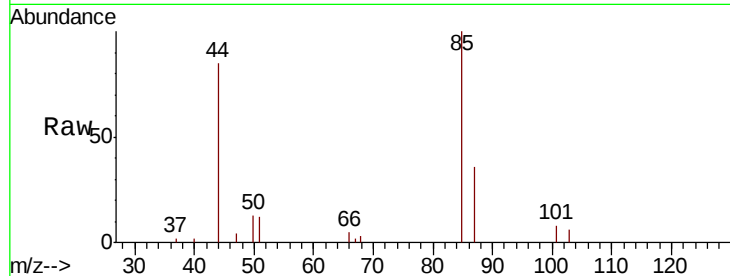
Ion Ratio Lower Upper

85 100

87 35.0 22.4 41.6

Manual Integrations
APPROVED

sam
12/12/2018 11:26:56 AM



#3

Chloromethane

Concen: 1.433 ug/L

RT: 1.25 min Scan# 49

Delta R.T. -0.00 min

Lab File: VV008897.D

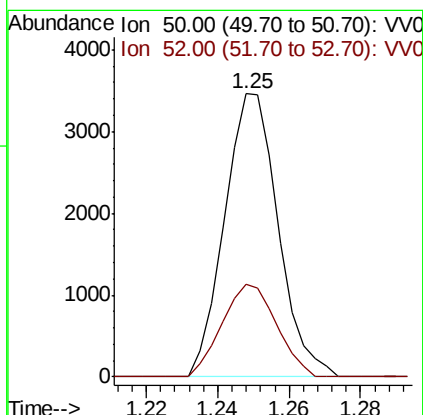
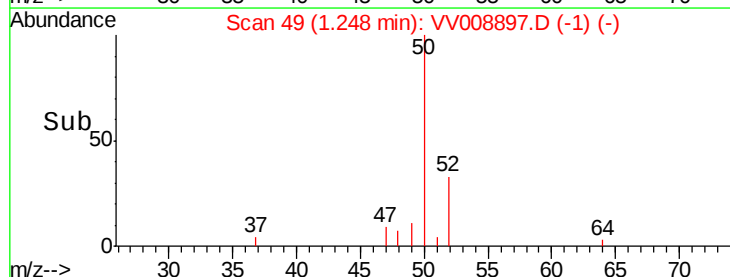
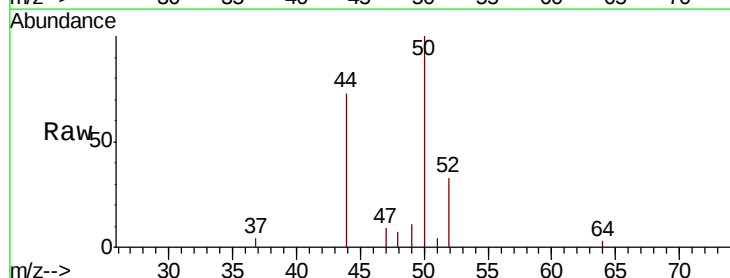
Acq: 11 Dec 2018 13:54

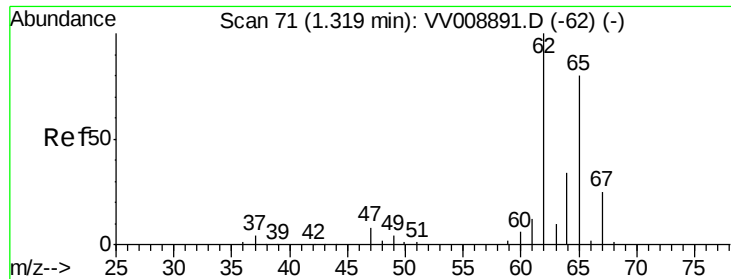
Tgt Ion: 50 Resp: 3594

Ion Ratio Lower Upper

50 100

52 32.7 23.2 43.2





#5

Vinyl chloride

Concen: 1.396 ug/L

RT: 1.32 min Scan# 71

Delta R.T. -0.00 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Instrument :

MSVOA_V

ClientSampled :

MDL05

Tot Ion: 62 Resp: 3908

Ion Ratio Lower Upper

62 100

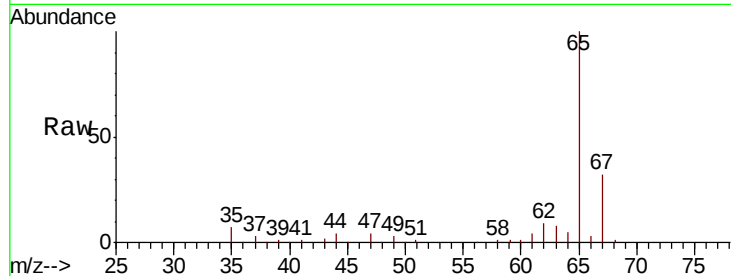
64 57.1 23.3 43.3#

Manual Integrations

APPROVED

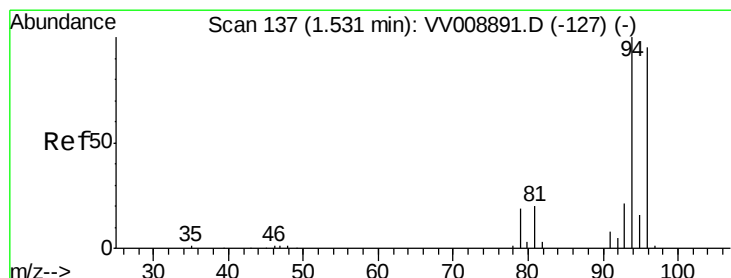
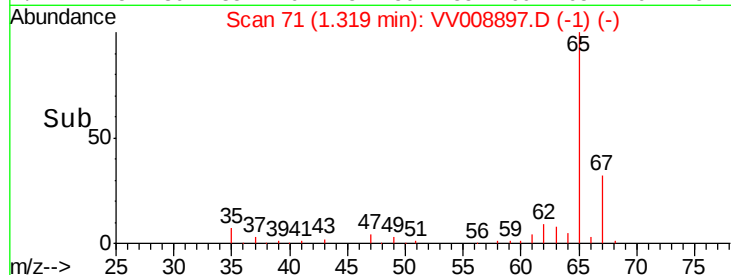
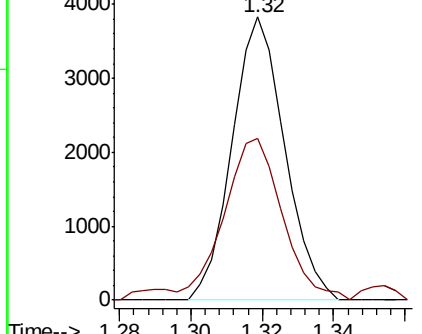
sam

12/12/2018 11:26:56 AM



Abundance Ion 62.00 (61.70 to 62.70): VV0

Ion 64.00 (63.70 to 64.70): VV0



#6

Bromomethane

Concen: 1.902 ug/L

RT: 1.53 min Scan# 137

Delta R.T. -0.00 min

Lab File: VV008897.D

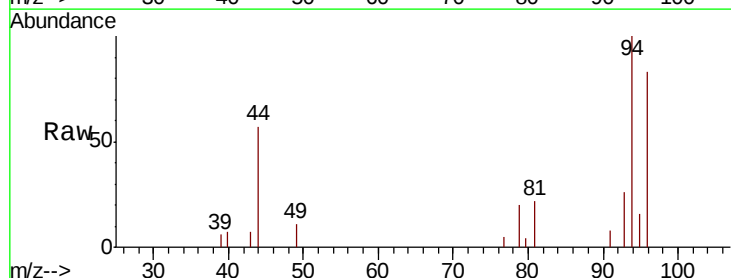
Acq: 11 Dec 2018 13:54

Tgt Ion: 94 Resp: 2560

Ion Ratio Lower Upper

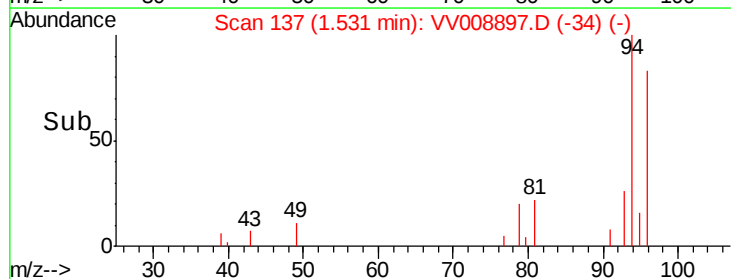
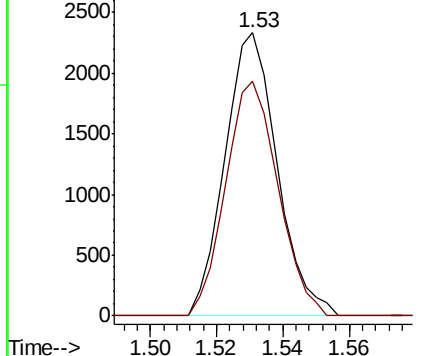
94 100

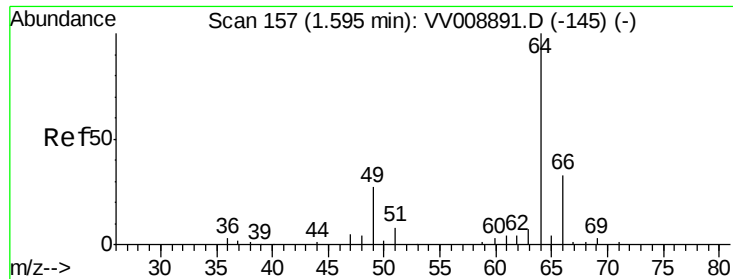
96 82.9 9.5 180.9



Abundance Ion 94.00 (93.70 to 94.70): VV0

Ion 96.00 (95.70 to 96.70): VV0





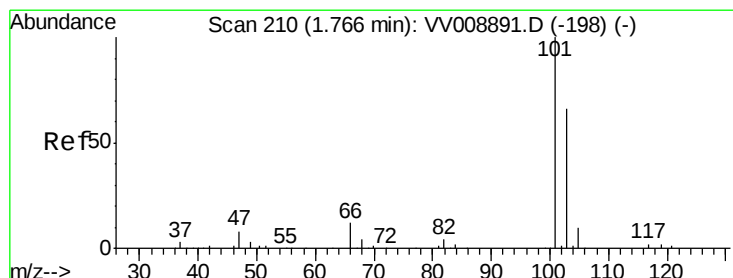
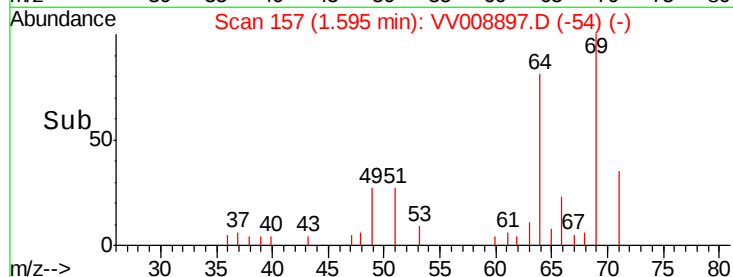
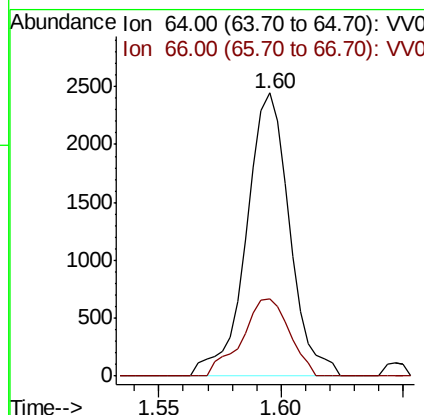
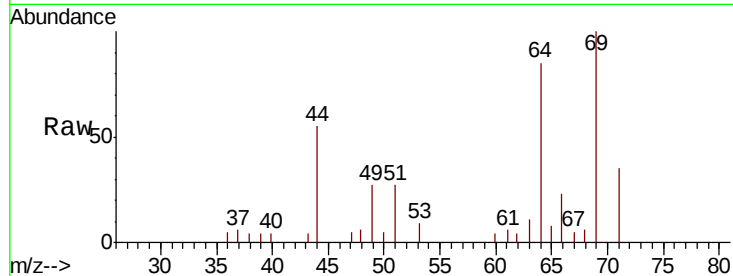
#8
Chloroethane
Concen: 1.912 ug/L
RT: 1.60 min Scan# 157
Delta R.T. -0.00 min
Lab File: VV008897.D
Acq: 11 Dec 2018 13:54

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion: 64 Resp: 2998
Ion Ratio Lower Upper
64 100
66 27.3 22.2 41.2

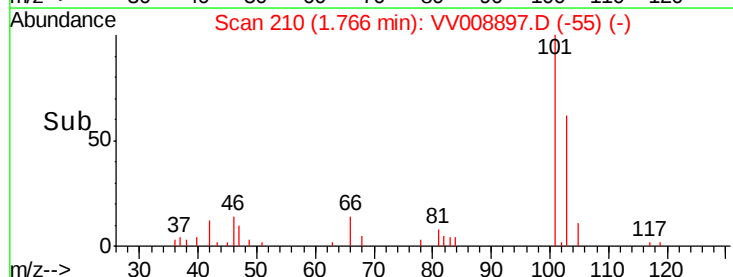
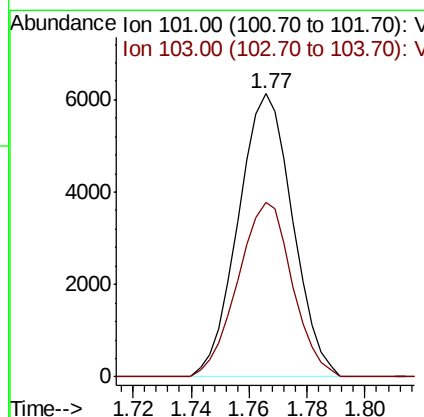
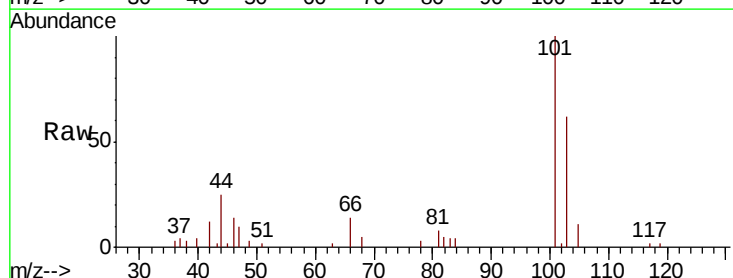
Manual Integrations
APPROVED

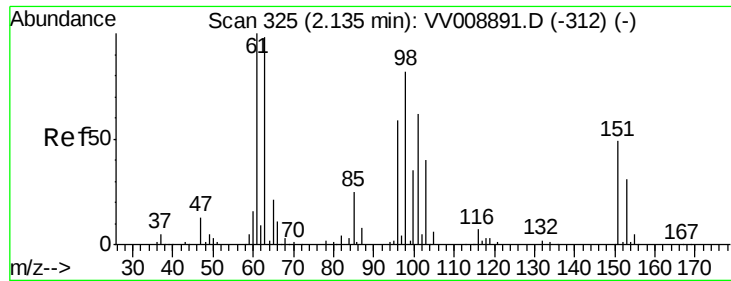
sam
12/12/2018 11:26:56 AM



#9
Trichlorofluoromethane
Concen: 1.668 ug/L
RT: 1.77 min Scan# 210
Delta R.T. -0.00 min
Lab File: VV008897.D
Acq: 11 Dec 2018 13:54

Tgt Ion: 101 Resp: 8001
Ion Ratio Lower Upper
101 100
103 61.5 44.8 83.2





#11

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

Concen: 1.881 ug/L

RT: 2.13 min Scan# 324

Delta R.T. -0.00 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Instrument :

MSVOA_V

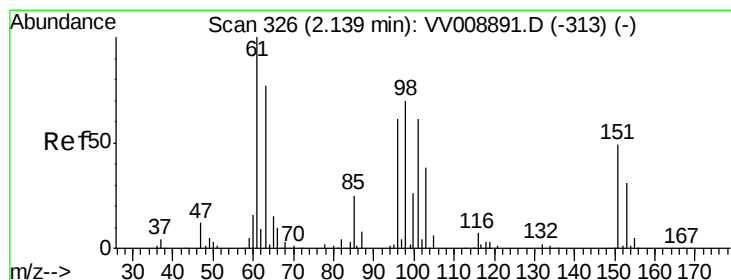
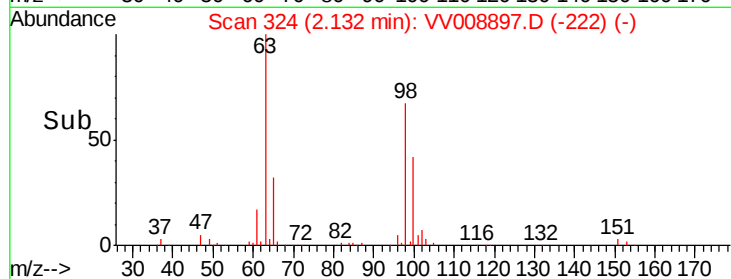
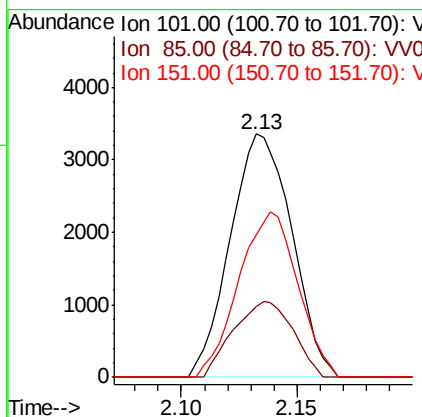
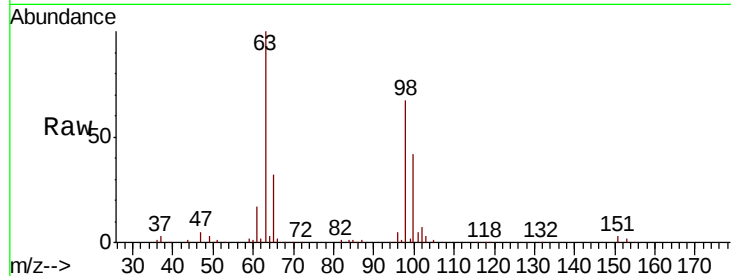
ClientSampleId :

MDL05

Tot Ion	Ratio	Lower	Upper
101	100		
85	30.1	32.5	48.7#
151	65.0	64.2	96.4

Manual Integrations
APPROVED

sam
12/12/2018 11:26:56 AM



#12

1,1-Dichloroethene

Concen: 1.795 ug/L

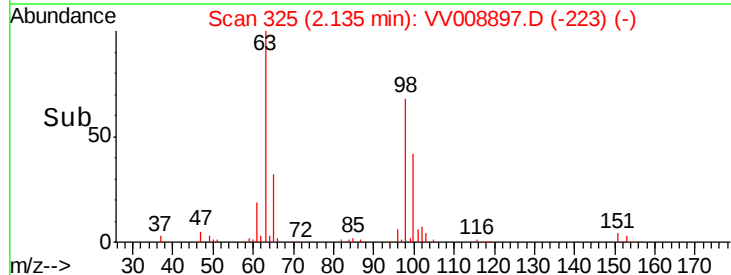
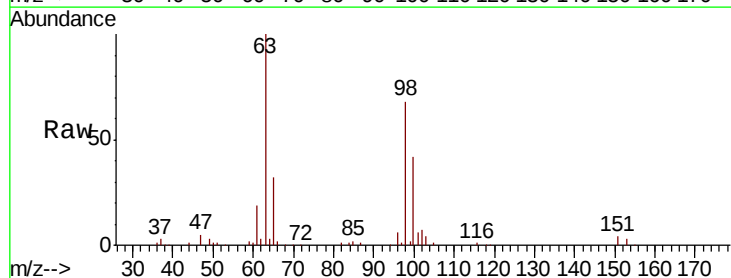
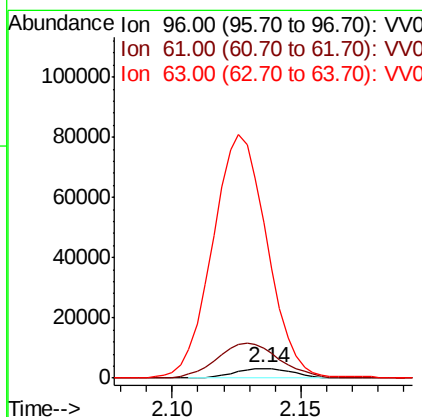
RT: 2.14 min Scan# 325

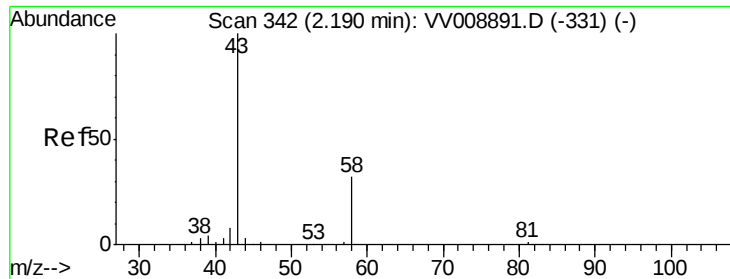
Delta R.T. -0.00 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Tgt Ion	Ratio	Lower	Upper
96	100		
61	321.3	114.0	211.6#
63	1651.3	82.4	153.0#





#13

Acetone

Concen: 3.595 ug/L

RT: 2.20 min Scan# 344

Delta R.T. 0.01 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Instrument :

MSVOA_V

ClientSampleId :

MDL05

Tot Ion: 43 Resp: 4443

Ion Ratio Lower Upper

43 100

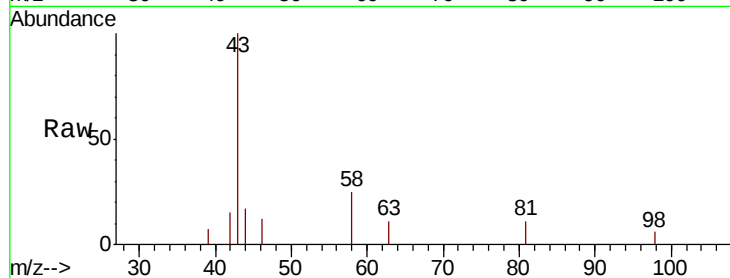
58 26.3 0.0 65.4

Manual Integrations

APPROVED

sam

12/12/2018 11:26:56 AM



Abundance Ion 43.00 (42.70 to 43.70): VV008897.D (-239) (-)

Ion 58.00 (57.70 to 58.70): VV008897.D (-239) (-)

2.20

2500

2000

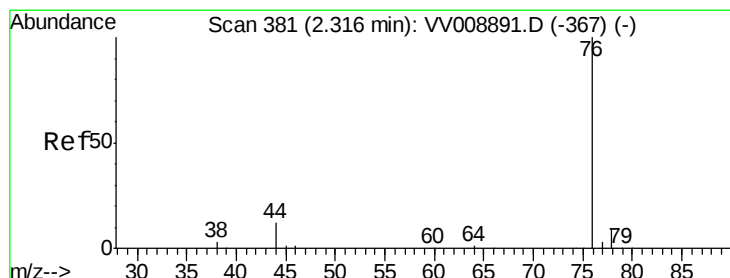
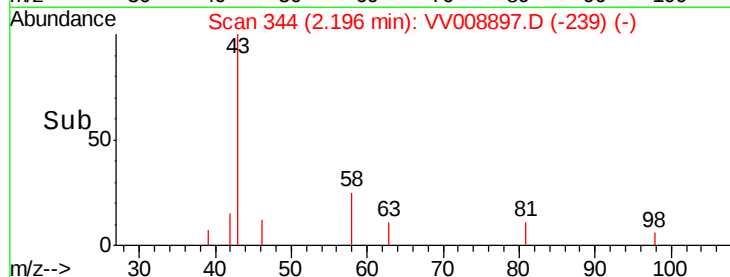
1500

1000

500

0

Time-->



#14

Carbon disulfide

Concen: 1.321 ug/L

RT: 2.32 min Scan# 381

Delta R.T. -0.00 min

Lab File: VV008897.D

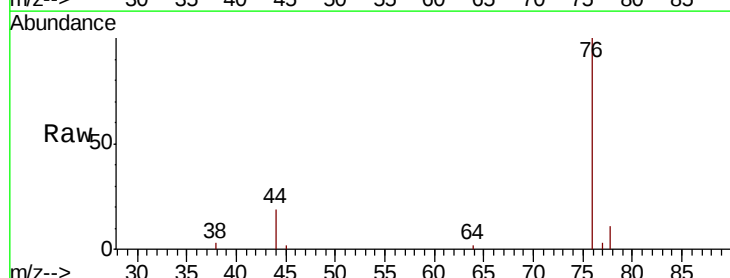
Acq: 11 Dec 2018 13:54

Tgt Ion: 76 Resp: 12177

Ion Ratio Lower Upper

76 100

78 10.9 7.4 11.0



Abundance Ion 76.00 (75.70 to 76.70): VV008897.D (-226) (-)

Ion 78.00 (77.70 to 78.70): VV008897.D (-226) (-)

2.32

8000

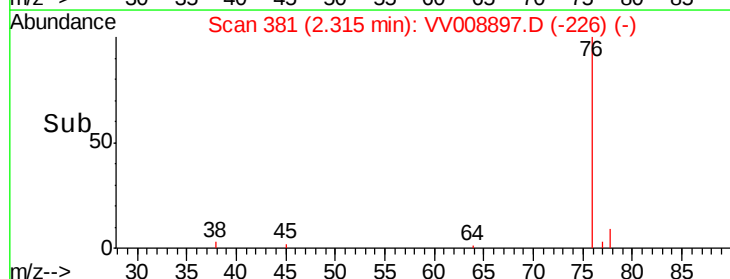
6000

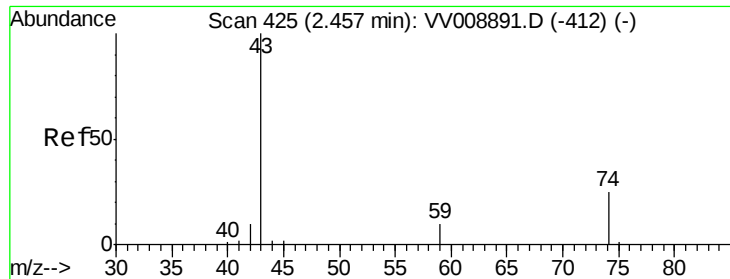
4000

2000

0

Time-->





#15

Methyl Acetate

Concen: 1.485 ug/L

RT: 2.46 min Scan# 426

Delta R.T. 0.00 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Tot Ion: 43 Resp: 2328

Ion Ratio Lower Upper

43 100

74 10.1 19.7 29.5#

Instrument :

MSVOA_V

ClientSampled :

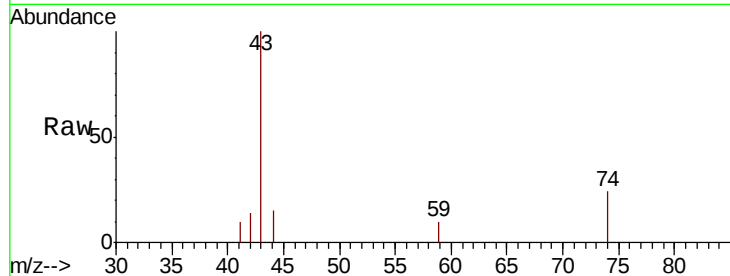
MDL05

Manual Integrations

APPROVED

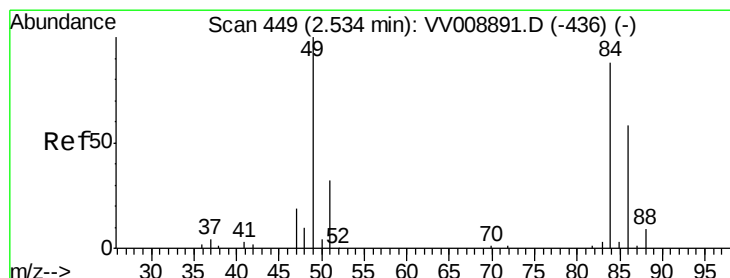
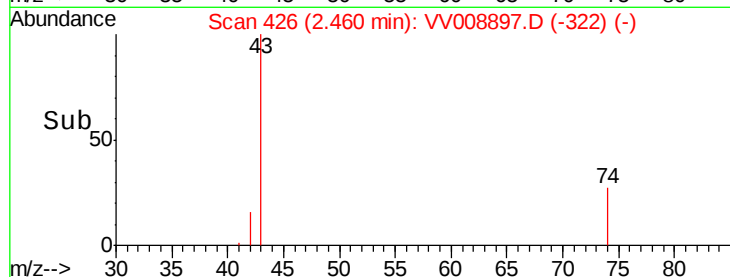
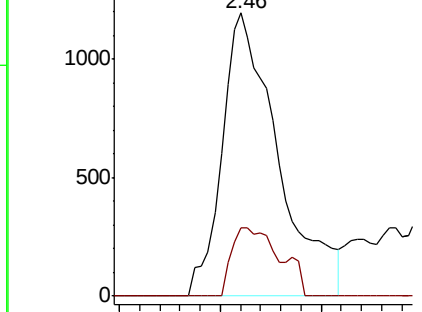
sam

12/12/2018 11:26:56 AM



Abundance Ion 43.00 (42.70 to 43.70): VV008897.D (-412) (-)

Ion 74.00 (73.70 to 74.70): VV008897.D (-412) (-)



#16

Methylene chloride

Concen: 2.861 ug/L

RT: 2.54 min Scan# 450

Delta R.T. 0.00 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

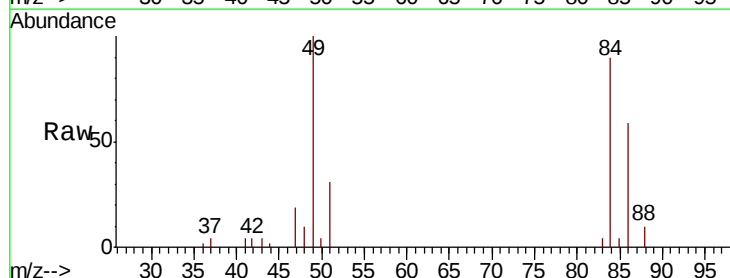
Tgt Ion: 84 Resp: 10726

Ion Ratio Lower Upper

84 100

49 110.8 80.5 149.5

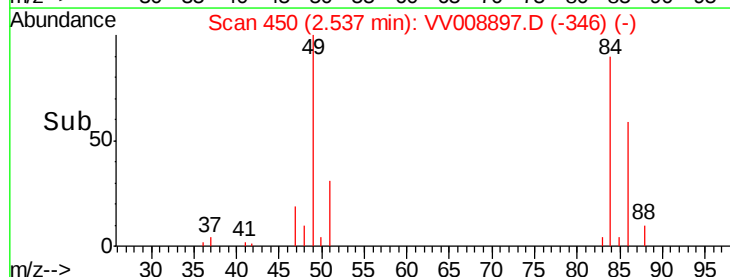
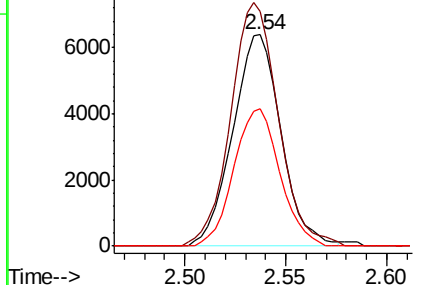
86 64.9 45.5 84.5

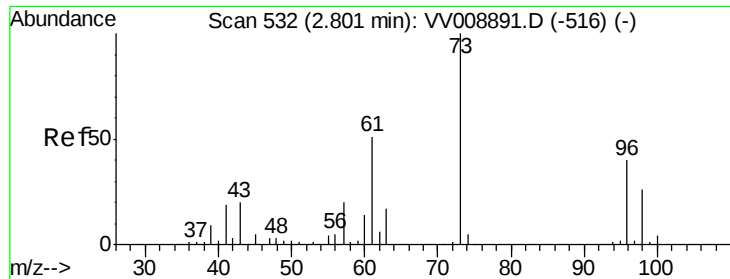


Abundance Ion 84.00 (83.70 to 84.70): VV008897.D (-436) (-)

Ion 49.00 (48.70 to 49.70): VV008897.D (-436) (-)

Ion 86.00 (85.70 to 86.70): VV008897.D (-436) (-)





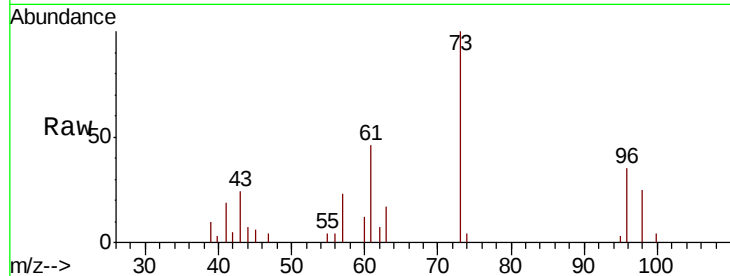
#17
Methvl tert-butvl Ether
Concen: 1.376 ug/L
RT: 2.80 min Scan# 533
Delta R.T. 0.00 min
Lab File: VV008897.D
Acq: 11 Dec 2018 13:54

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
73	100		
43	22.0	14.9	22.3
57	21.9	16.0	24.0

Manual Integrations
APPROVED

sam
12/12/2018 11:26:56 AM

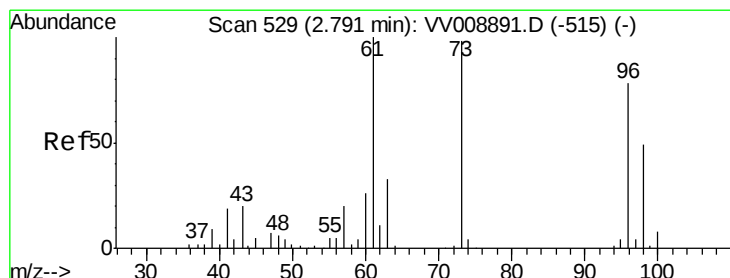
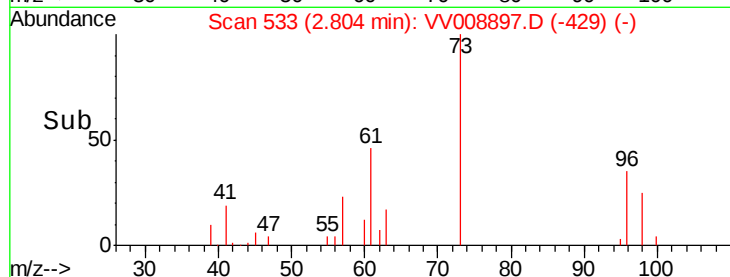
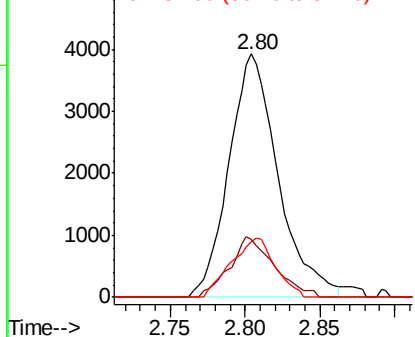


Abundance

Ion 73.00 (72.70 to 73.70): VV0

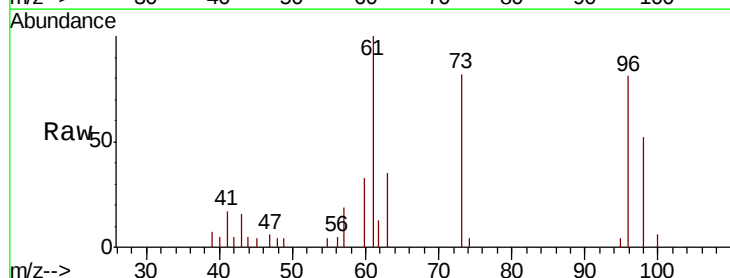
Ion 43.00 (42.70 to 43.70): VV0

Ion 57.00 (56.70 to 57.70): VV0



#18
trans-1,2-Dichloroethene
Concen: 1.393 ug/L
RT: 2.79 min Scan# 529
Delta R.T. -0.00 min
Lab File: VV008897.D
Acq: 11 Dec 2018 13:54

Tgt Ion	Ratio	Lower	Upper
96	100		
61	123.3	94.6	175.8
98	64.7	45.3	84.1

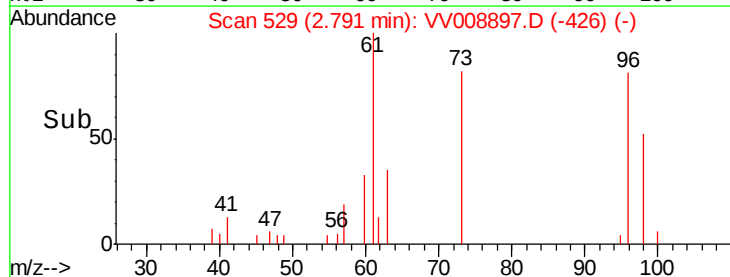
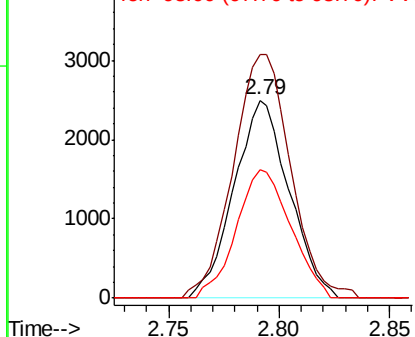


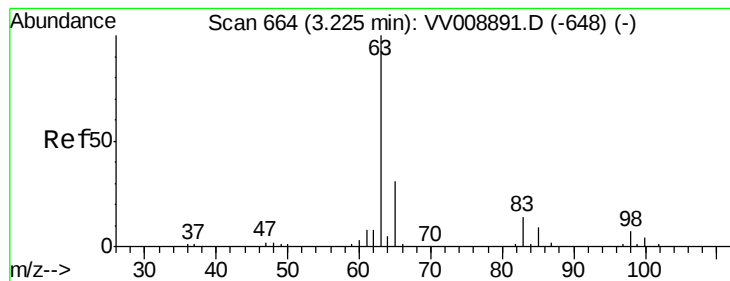
Abundance

Ion 96.00 (95.70 to 96.70): VV0

Ion 61.00 (60.70 to 61.70): VV0

Ion 98.00 (97.70 to 98.70): VV0





#19

1,1-Dichloroethane

Concen: 1.272 ug/L

RT: 3.23 min Scan# 666

Delta R.T. 0.01 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Instrument :

MSVOA_V

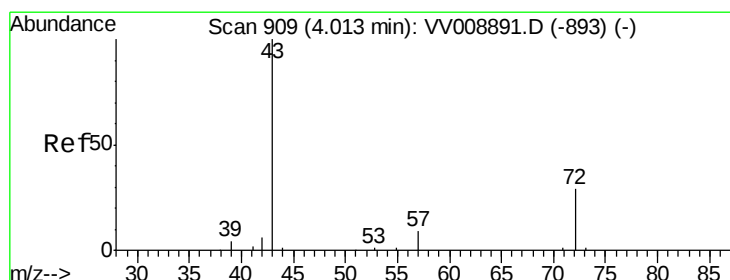
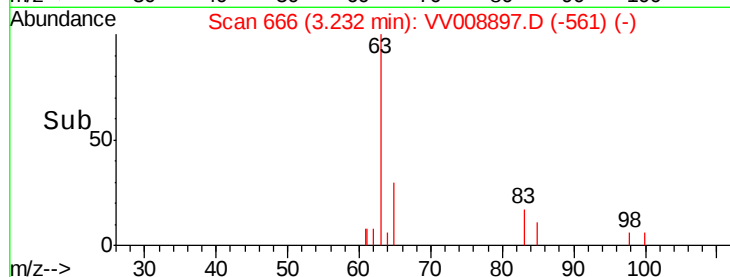
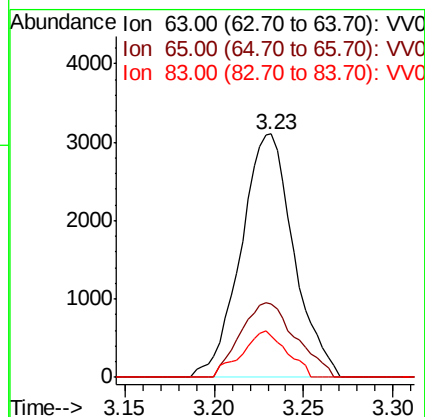
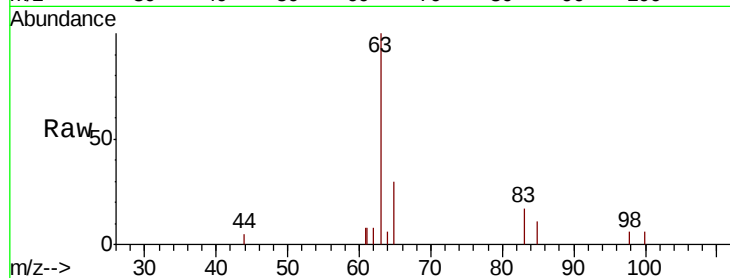
ClientSampleId :

MDL05

Tot Ion:	63	Resp:	6394
Ion	Ratio	Lower	Upper
63	100		
65	30.1	22.7	42.1
83	17.2	10.2	19.0

Manual Integrations
APPROVED

sam
12/12/2018 11:26:56 AM



#21

2-Butanone

Concen: 2.472 ug/L m

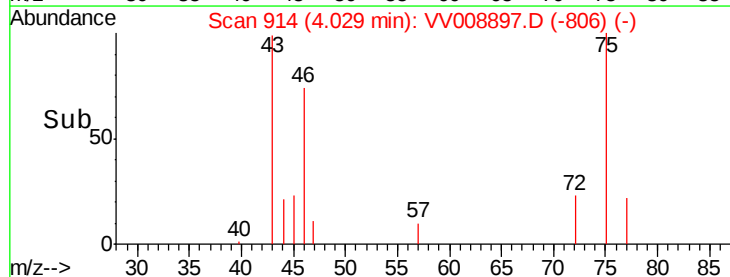
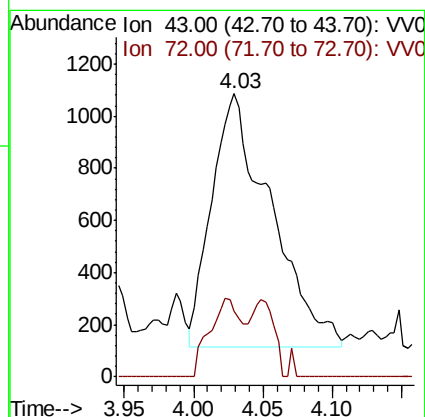
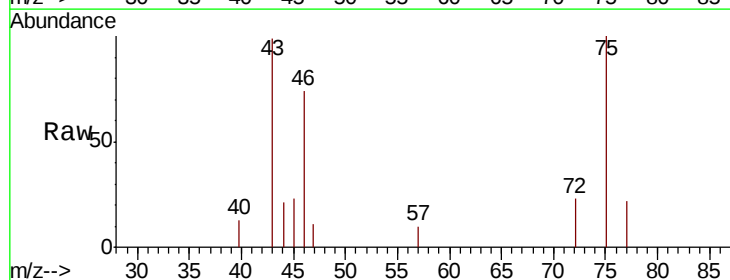
RT: 4.03 min Scan# 914

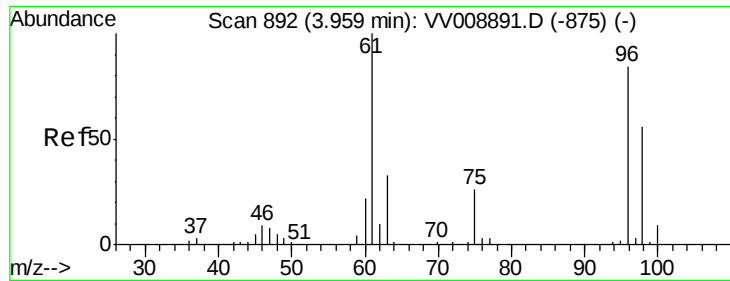
Delta R.T. 0.02 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Tgt Ion:	43	Resp:	2864
Ion	Ratio	Lower	Upper
43	100		
72	16.0	13.7	41.1





#22

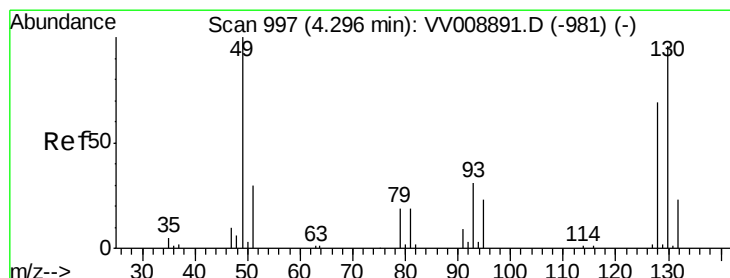
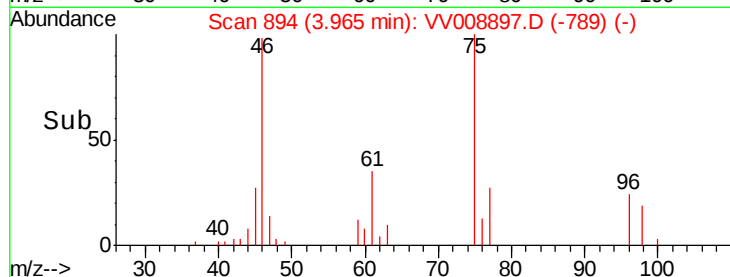
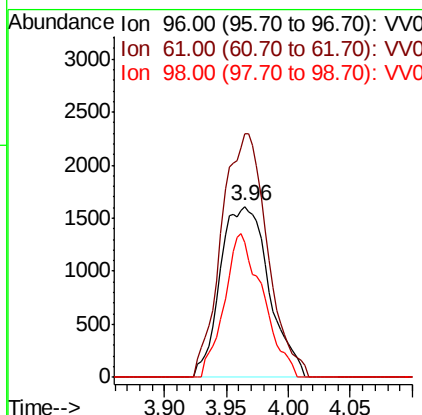
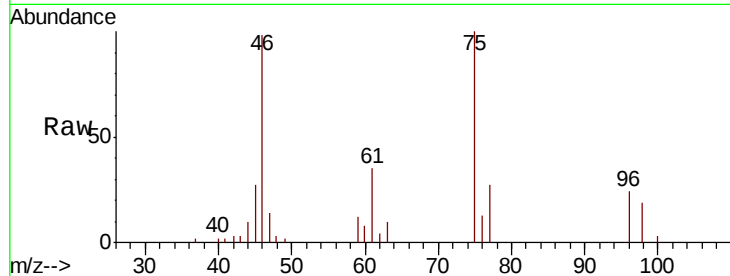
cis-1,2-Dichloroethene
Concen: 1.354 ug/L m
RT: 3.96 min Scan# 894
Delta R.T. 0.01 min
Lab File: VV008897.D
Acq: 11 Dec 2018 13:54

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
96	100		
61	141.9	86.2	160.0
98	78.8	45.6	84.6

Manual Integrations
APPROVED

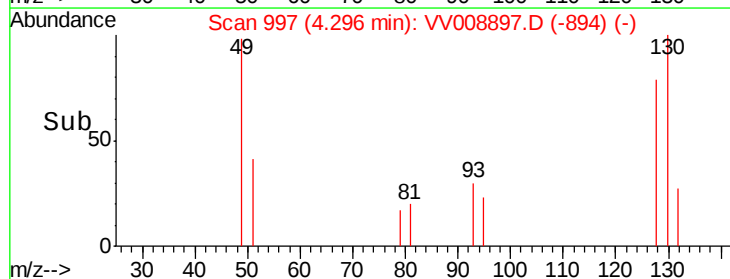
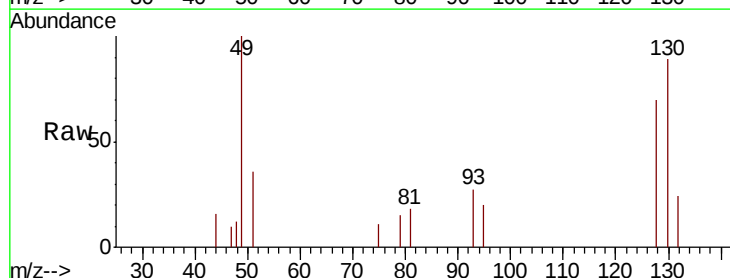
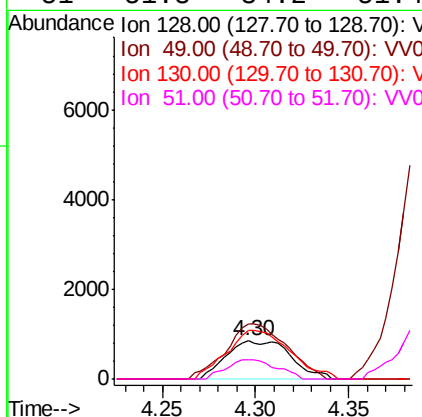
sam
12/12/2018 11:26:56 AM

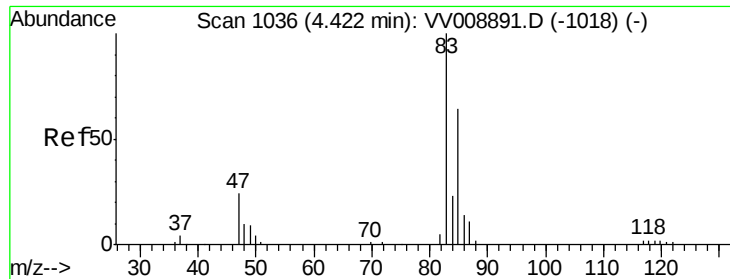


#23

Bromochloromethane
Concen: 1.344 ug/L m
RT: 4.30 min Scan# 997
Delta R.T. -0.00 min
Lab File: VV008897.D
Acq: 11 Dec 2018 13:54

Tgt Ion	Ratio	Lower	Upper
128	100		
49	142.9	93.8	174.2
130	127.2	90.4	168.0
51	51.8	34.2	51.4#





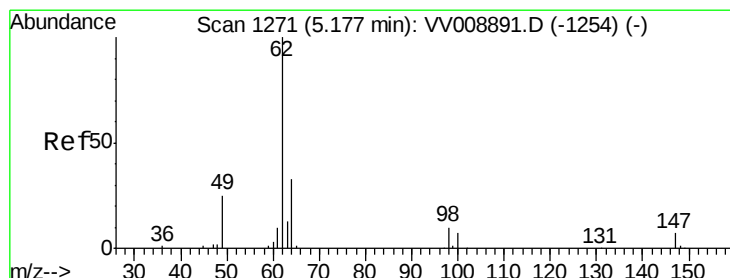
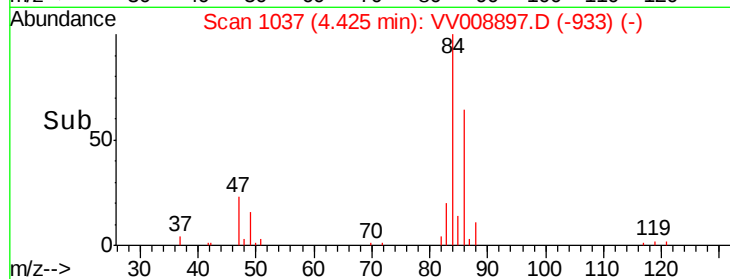
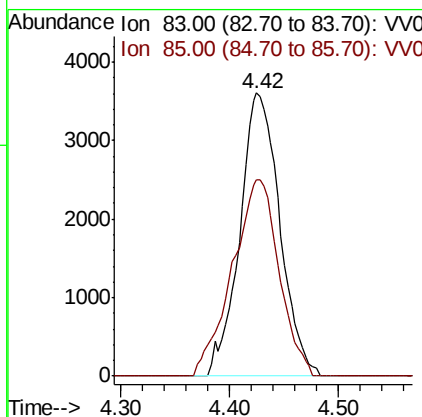
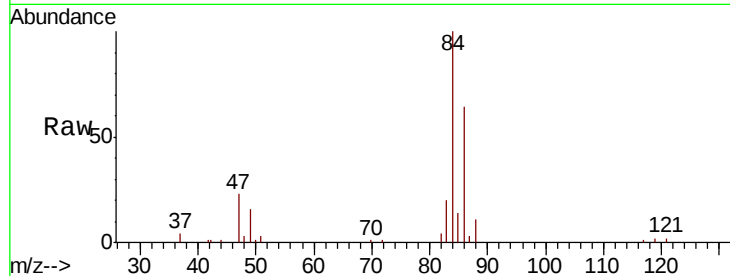
#25
Chloroform
Concen: 1.706 ug/L m
RT: 4.42 min Scan# 1037
Delta R.T. 0.00 min
Lab File: VV008897.D
Acq: 11 Dec 2018 13:54

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion: 83 Resp: 9205
Ion Ratio Lower Upper
83 100
85 81.1 45.6 84.8

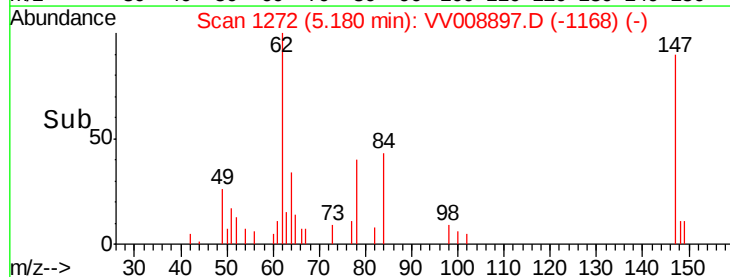
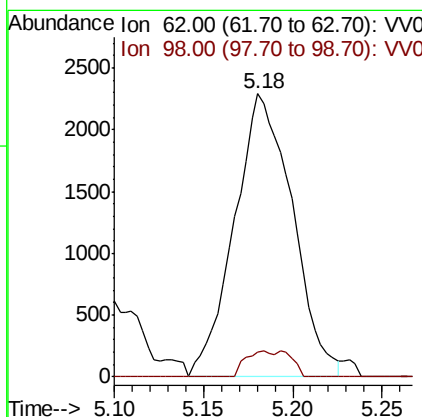
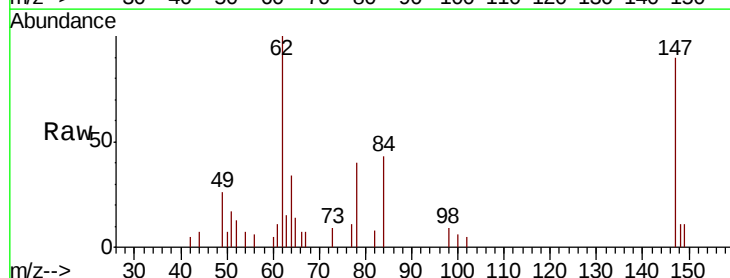
Manual Integrations
APPROVED

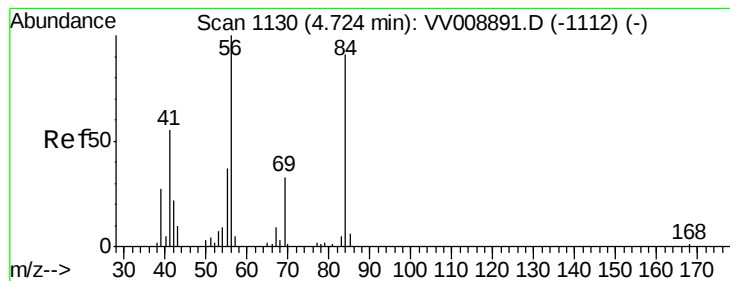
sam
12/12/2018 11:26:56 AM



#27
1,2-Dichloroethane
Concen: 1.413 ug/L
RT: 5.18 min Scan# 1272
Delta R.T. 0.00 min
Lab File: VV008897.D
Acq: 11 Dec 2018 13:54

Tgt Ion: 62 Resp: 5194
Ion Ratio Lower Upper
62 100
98 8.7 7.4 11.0





#30

Cyclohexane

Concen: 1.326 ug/L m

RT: 4.73 min Scan# 1131

Delta R.T. 0.00 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Instrument :

MSVOA_V

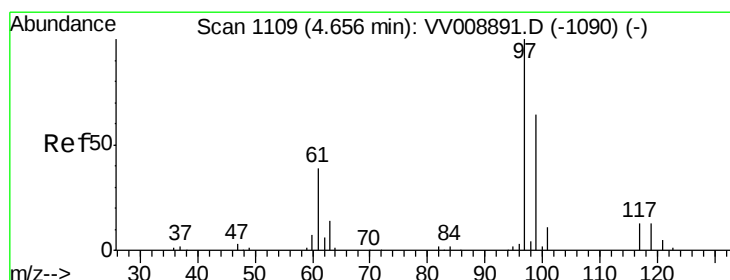
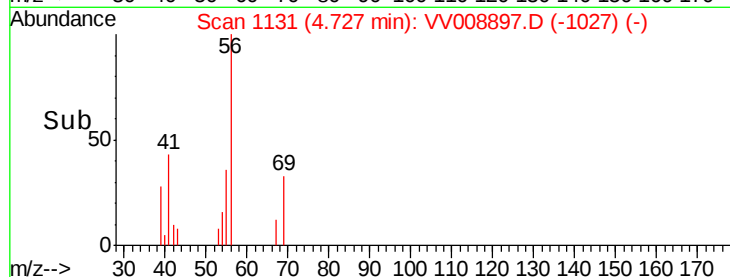
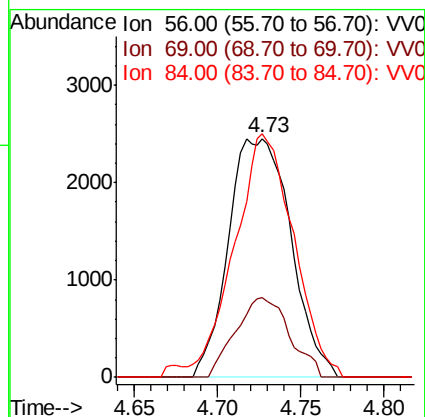
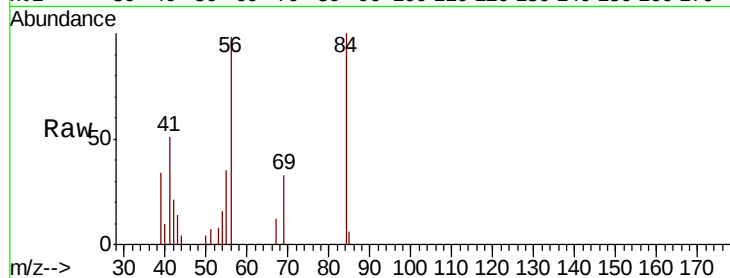
ClientSampleId :

MDL05

Tot Ion:	56	Resp:	6396
Ion	Ratio	Lower	Upper
56	100		
69	28.9	25.8	38.8
84	96.3	73.0	109.6

Manual Integrations
APPROVED

sam
12/12/2018 11:26:56 AM



#31

1,1,1-Trichloroethane

Concen: 1.354 ug/L

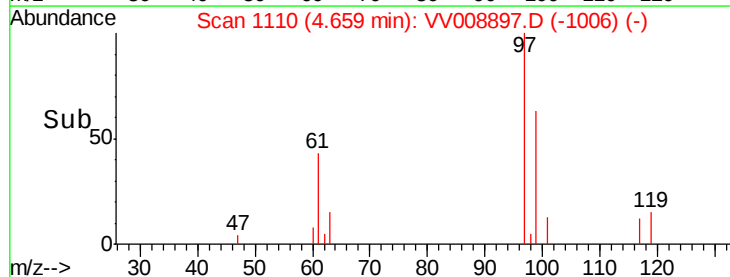
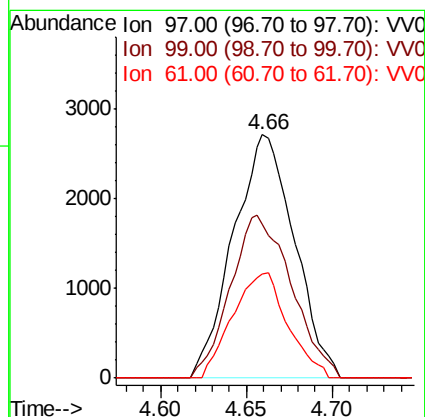
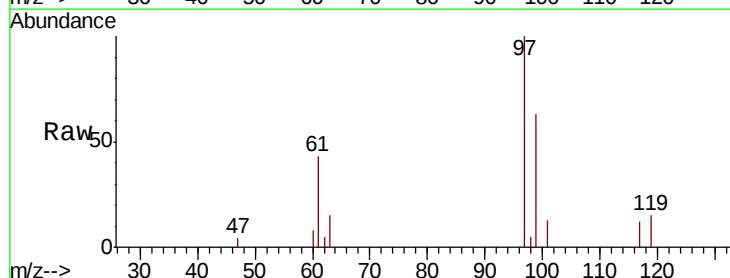
RT: 4.66 min Scan# 1110

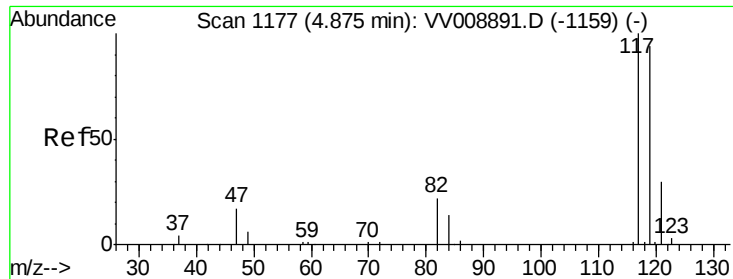
Delta R.T. 0.00 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Tgt Ion:	97	Resp:	6688
Ion	Ratio	Lower	Upper
97	100		
99	66.9	51.9	77.9
61	39.1	33.1	49.7





#32

Carbon tetrachloride

Concen: 1.337 ug/L

RT: 4.88 min Scan# 1178

Delta R.T. 0.00 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Instrument :

MSVOA_V

ClientSampleId :

MDL05

Tot Ion:117 Resp: 6027

Ion Ratio Lower Upper

117 100

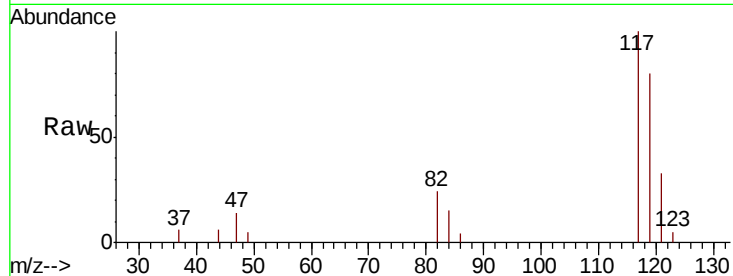
119 95.5 77.1 115.7

Manual Integrations

APPROVED

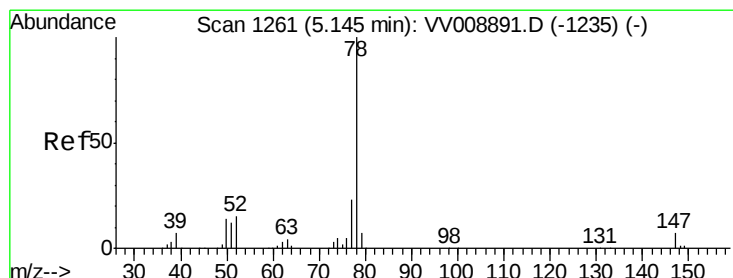
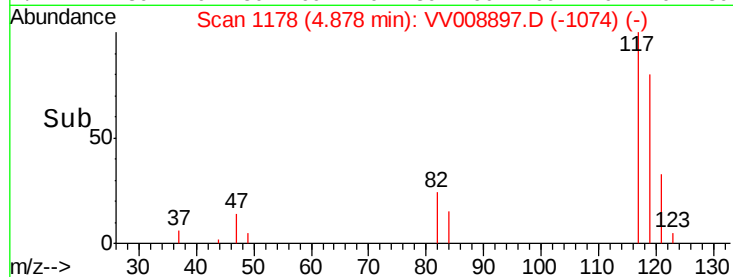
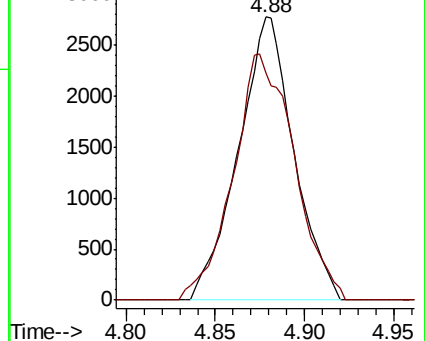
sam

12/12/2018 11:26:56 AM



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V



#34

Benzene

Concen: 1.338 ug/L

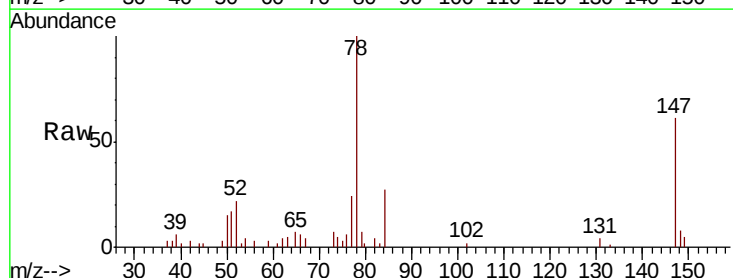
RT: 5.15 min Scan# 1263

Delta R.T. 0.01 min

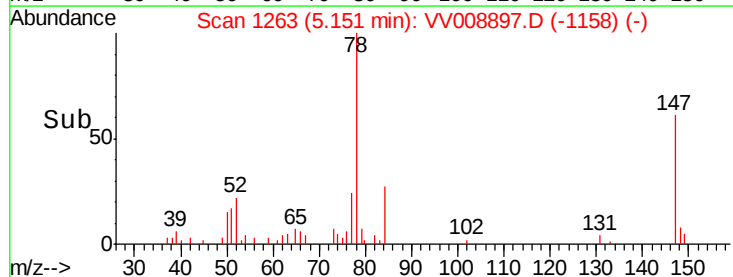
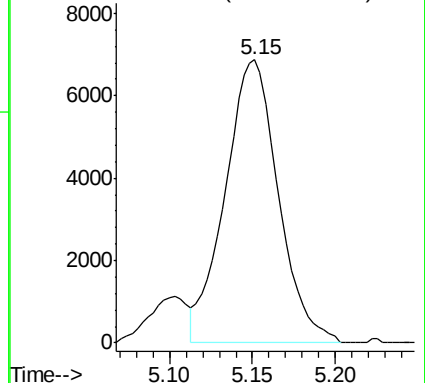
Lab File: VV008897.D

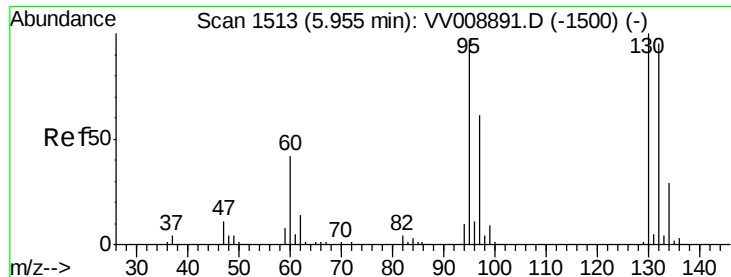
Acq: 11 Dec 2018 13:54

Tgt Ion: 78 Resp: 15362



Abundance Ion 78.00 (77.70 to 78.70): VV0





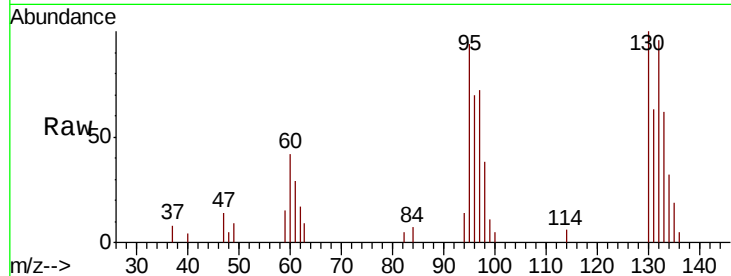
#35
 Trichloroethene
 Concen: 1.485 ug/L
 RT: 5.96 min Scan# 1515
 Delta R.T. 0.01 min
 Lab File: VV008897.D
 Acq: 11 Dec 2018 13:54

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Tot Ion	95.00	Resp	5137
Ion Ratio	Lower	Upper	
95	100		
97	71.7	45.3	84.1
132	101.8	70.0	130.0
130	104.2	73.4	136.4

Manual Integrations
 APPROVED

sam
 12/12/2018 11:26:56 AM



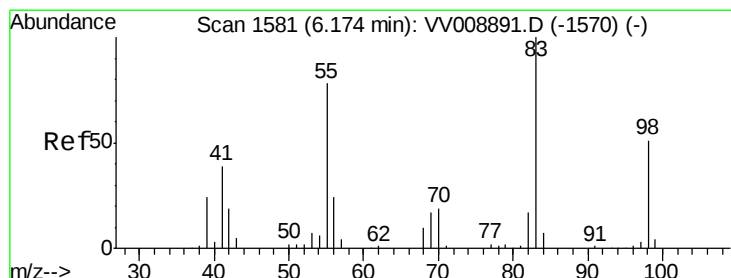
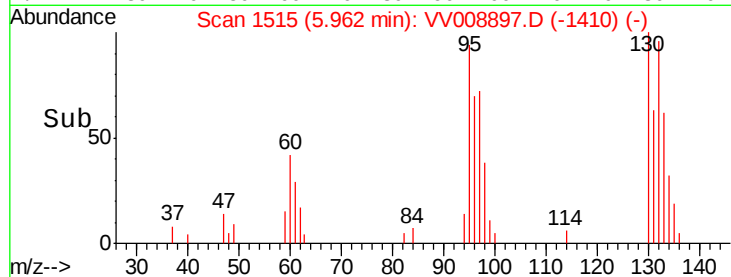
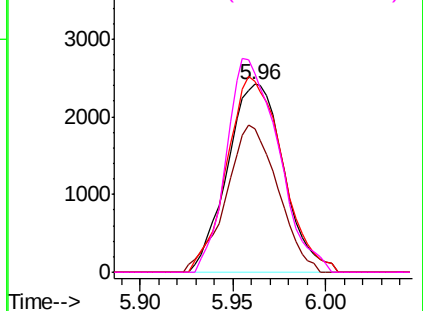
Abundance

Ion 95.00 (94.70 to 95.70): VV008897.D (-1500) (-)

Ion 97.00 (96.70 to 97.70): VV008897.D (-1500) (-)

Ion 132.00 (131.70 to 132.70): VV008897.D (-1500) (-)

Ion 130.00 (129.70 to 130.70): VV008897.D (-1500) (-)



#36
 Methylcyclohexane
 Concen: 1.389 ug/L
 RT: 6.18 min Scan# 1582
 Delta R.T. 0.00 min
 Lab File: VV008897.D
 Acq: 11 Dec 2018 13:54

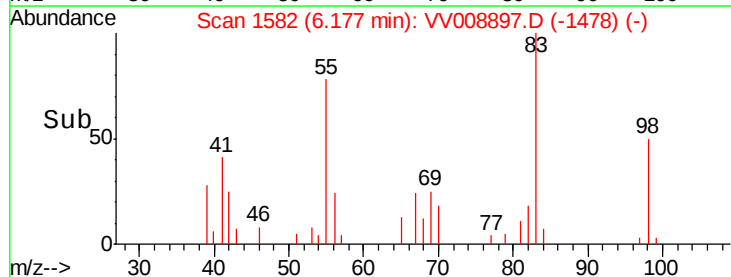
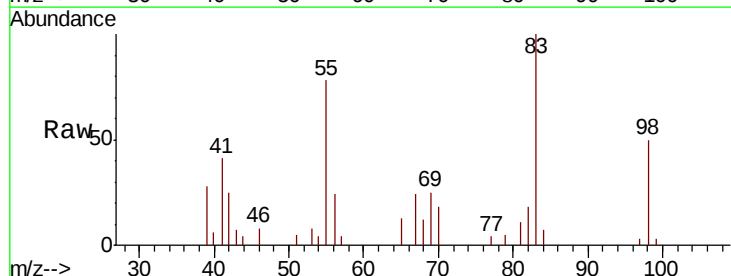
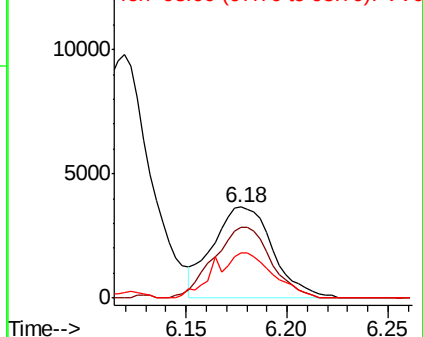
Tgt Ion	83.00	Resp	7663
Ion Ratio	Lower	Upper	
83	100		
55	73.2	58.2	87.2
98	36.2	37.8	56.8

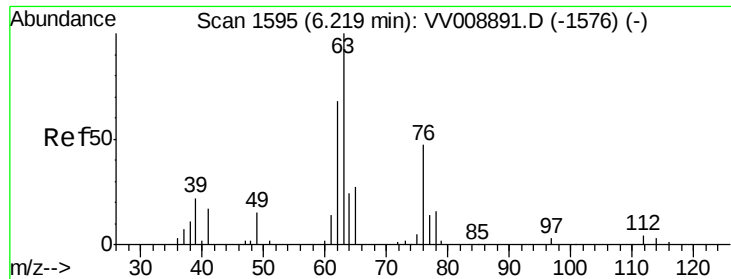
Abundance

Ion 83.00 (82.70 to 83.70): VV008897.D (-1478) (-)

Ion 55.00 (54.70 to 55.70): VV008897.D (-1478) (-)

Ion 98.00 (97.70 to 98.70): VV008897.D (-1478) (-)





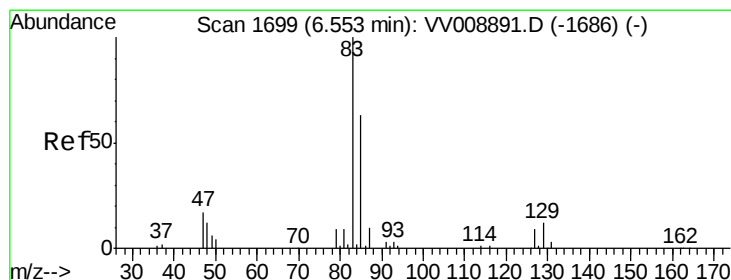
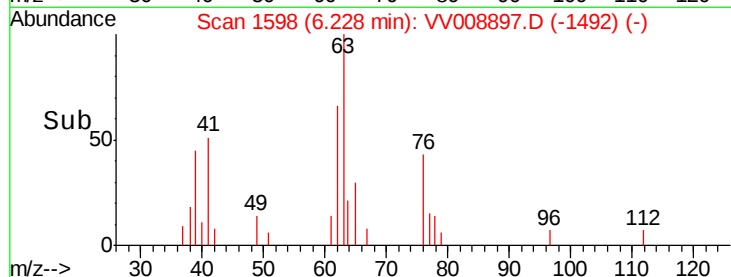
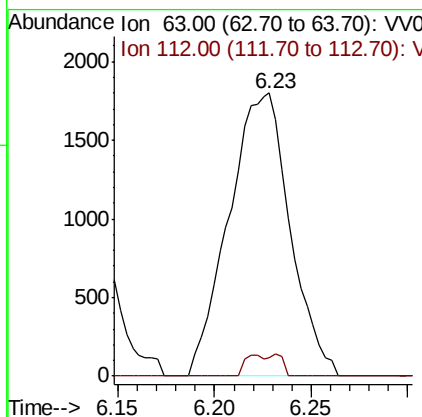
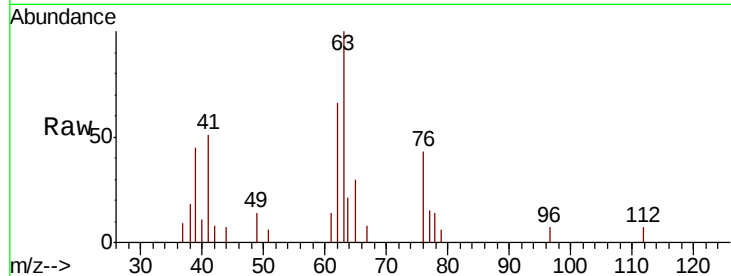
#40
 1,2-Dichloropropane
 Concen: 1.438 ug/L
 RT: 6.23 min Scan# 1598
 Delta R.T. 0.01 min
 Lab File: VV008897.D
 Acq: 11 Dec 2018 13:54

Instrument :
 MSVOA_V
 ClientSampled :
 MDL05

Tot Ion: 63 Resp: 3960
 Ion Ratio Lower Upper
 63 100
 112 1.9 3.8 5.8#

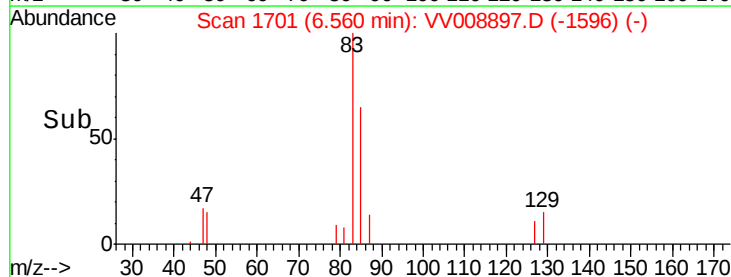
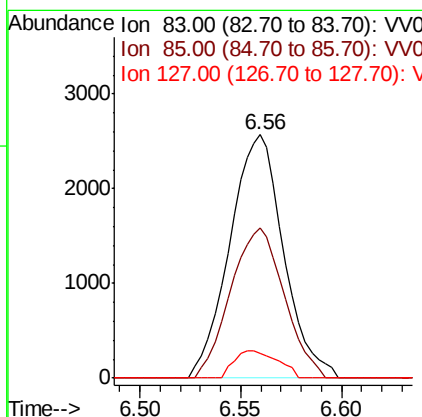
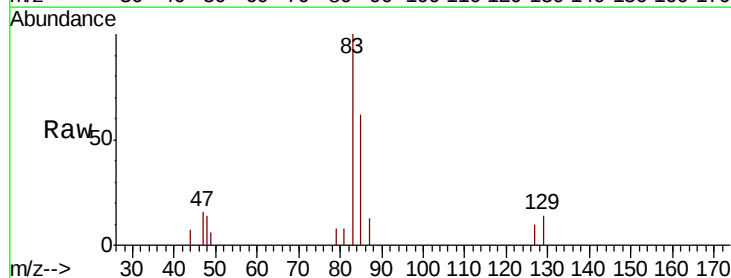
Manual Integrations
 APPROVED

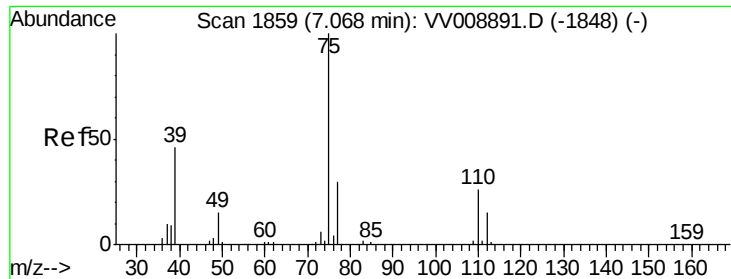
sam
 12/12/2018 11:26:56 AM



#41
 Bromodichloromethane
 Concen: 1.320 ug/L
 RT: 6.56 min Scan# 1701
 Delta R.T. 0.01 min
 Lab File: VV008897.D
 Acq: 11 Dec 2018 13:54

Tgt Ion: 83 Resp: 4793
 Ion Ratio Lower Upper
 83 100
 85 61.6 45.3 84.1
 127 10.3 7.2 10.8





#42

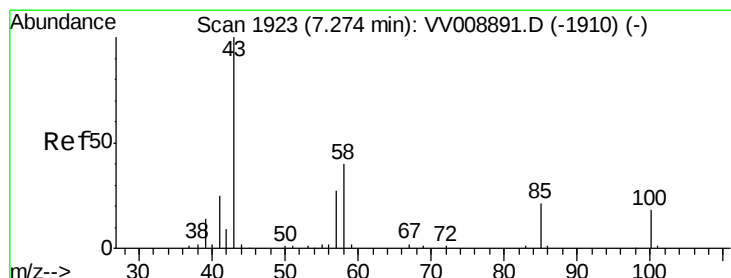
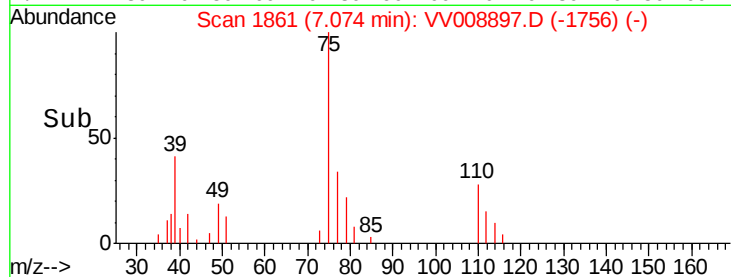
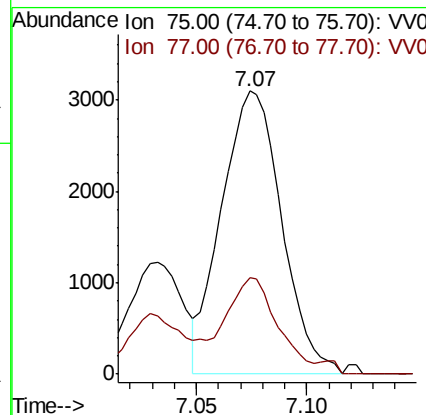
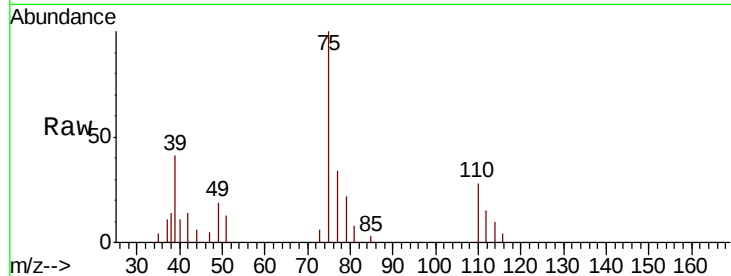
cis-1,3-Dichloropropene
Concen: 1.453 ug/L
RT: 7.07 min Scan# 1861
Delta R.T. 0.01 min
Lab File: VV008897.D
Acq: 11 Dec 2018 13:54

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
75	100		
77	34.0	21.3	39.6

Manual Integrations
APPROVED

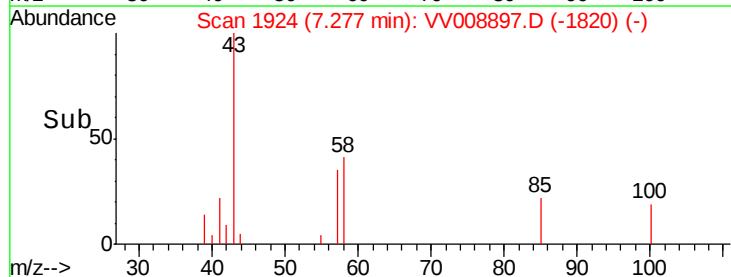
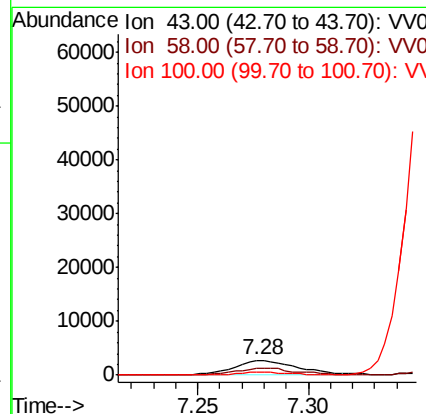
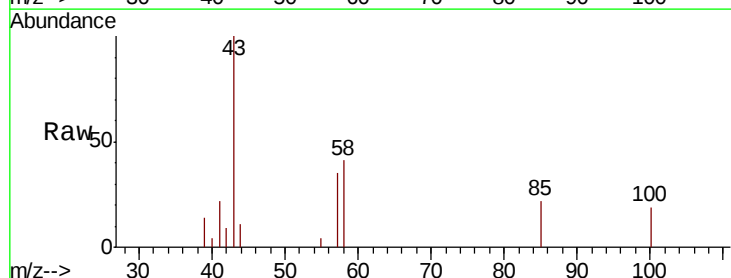
sam
12/12/2018 11:26:56 AM

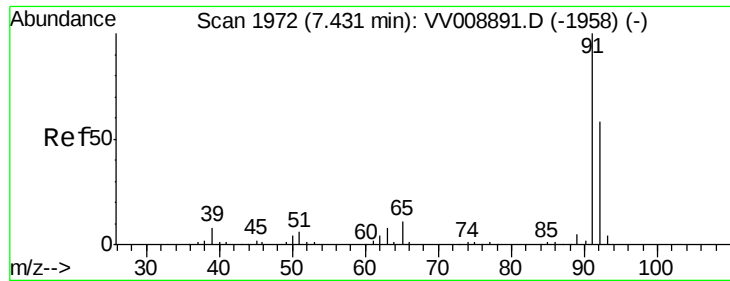


#43

4-Methyl-2-pentanone
Concen: 3.023 ug/L
RT: 7.28 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VV008897.D
Acq: 11 Dec 2018 13:54

Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.4	32.2	48.4
100	15.3	13.8	20.8





#44

Toluene

Concen: 1.479 ug/L

RT: 7.43 min Scan# 1973

Delta R.T. 0.00 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Instrument :

MSVOA_V

ClientSampled :

MDL05

Tot Ion: 91 Resp: 17804

Ion Ratio Lower Upper

91 100

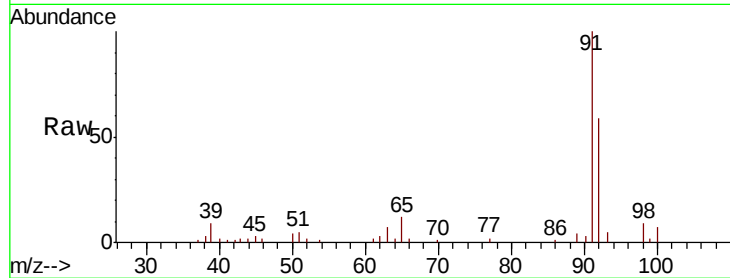
92 58.7 41.7 77.5

Manual Integrations

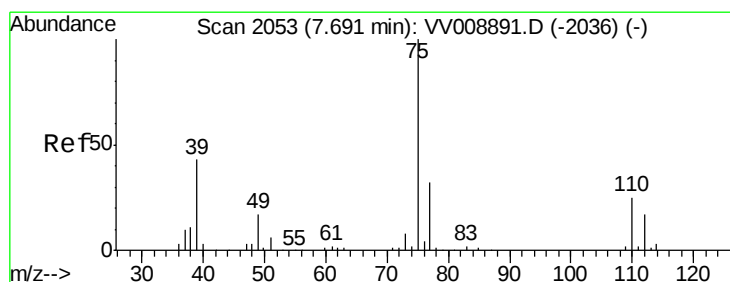
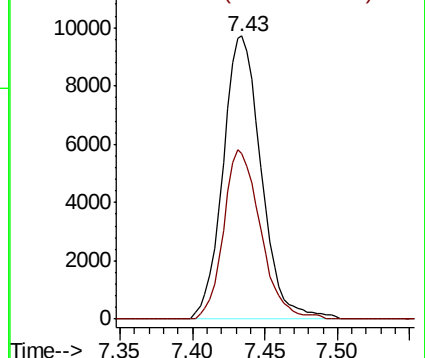
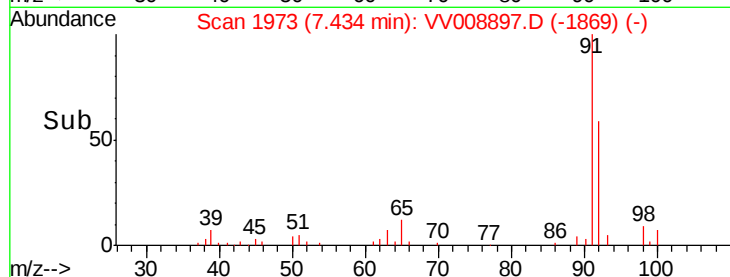
APPROVED

sam

12/12/2018 11:26:56 AM



Abundance Ion 91.00 (90.70 to 91.70): VV008897.D (-1869) (-)



#45

trans-1,3-Dichloropropene

Concen: 1.324 ug/L

RT: 7.69 min Scan# 2054

Delta R.T. 0.00 min

Lab File: VV008897.D

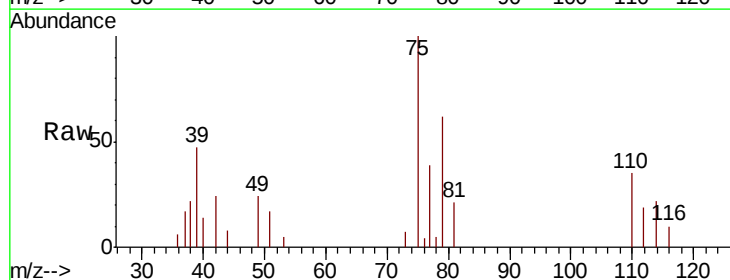
Acq: 11 Dec 2018 13:54

Tgt Ion: 75 Resp: 4654

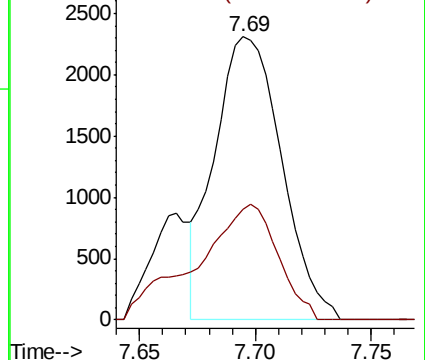
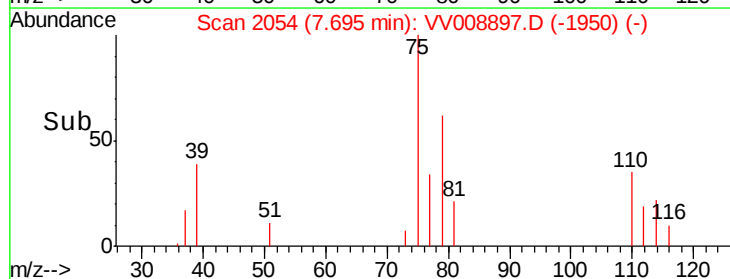
Ion Ratio Lower Upper

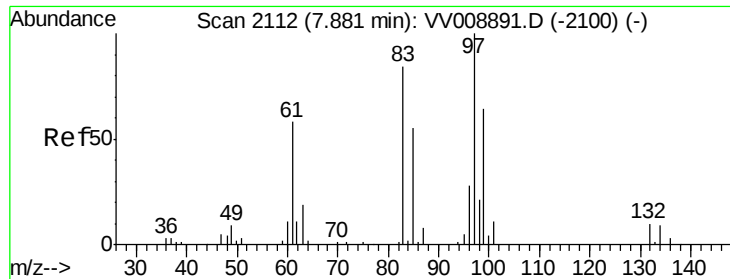
75 100

77 39.2 23.6 43.8



Abundance Ion 75.00 (74.70 to 75.70): VV008897.D (-1950) (-)





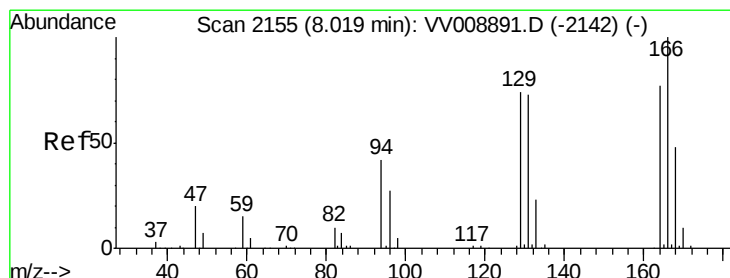
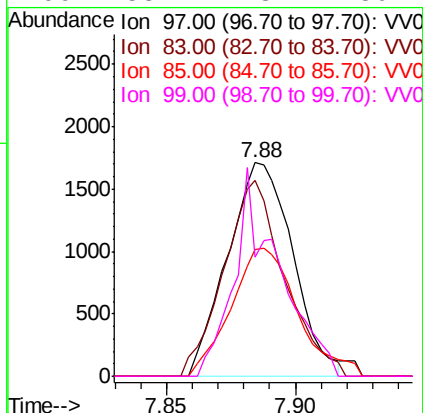
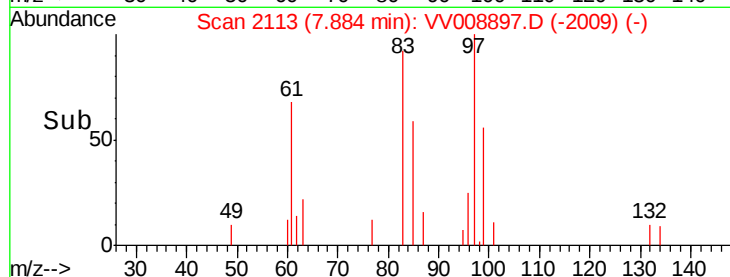
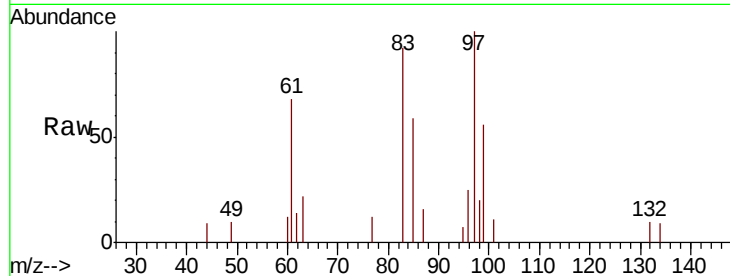
#46
1,1,2-Trichloroethane
Concen: 1.314 ug/L
RT: 7.88 min Scan# 2113
Delta R.T. 0.00 min
Lab File: VV008897.D
Acq: 11 Dec 2018 13:54

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion:	97	Resp:	3017
Ion	Ratio	Lower	Upper
97	100		
83	91.8	56.6	105.2
85	59.1	36.6	68.0
99	55.7	43.2	80.2

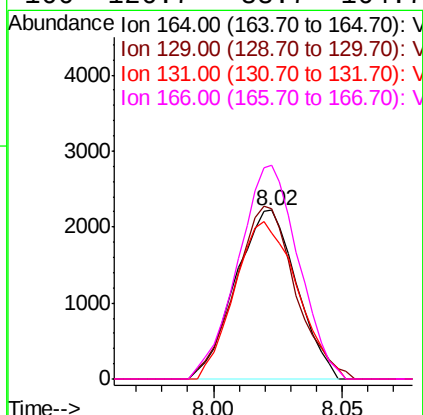
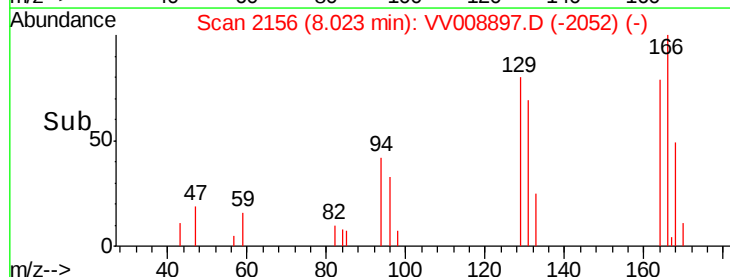
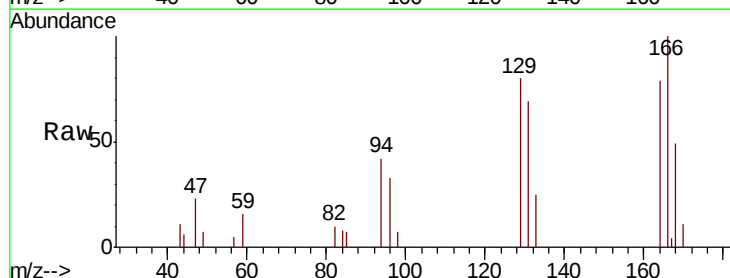
Manual Integrations
APPROVED

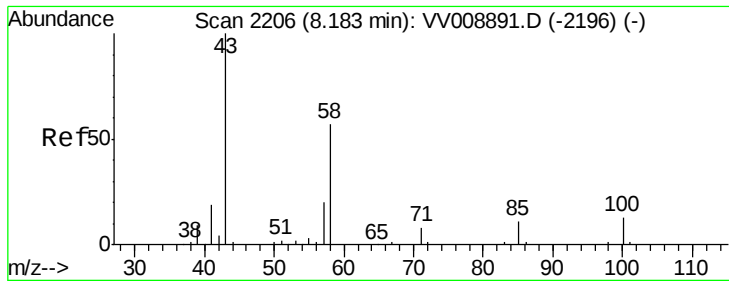
sam
12/12/2018 11:26:56 AM



#47
Tetrachloroethene
Concen: 1.309 ug/L
RT: 8.02 min Scan# 2156
Delta R.T. 0.00 min
Lab File: VV008897.D
Acq: 11 Dec 2018 13:54

Tgt Ion:	164	Resp:	3685
Ion	Ratio	Lower	Upper
164	100		
129	100.8	64.6	120.0
131	86.8	64.5	119.7
166	126.7	88.7	164.7





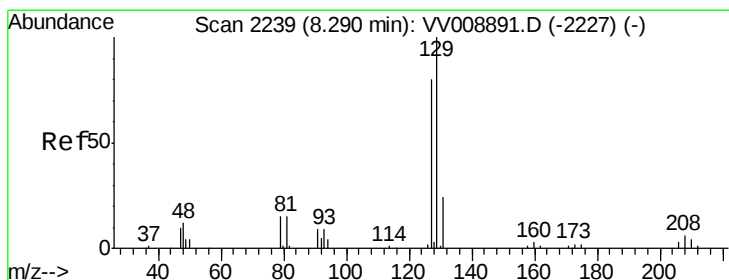
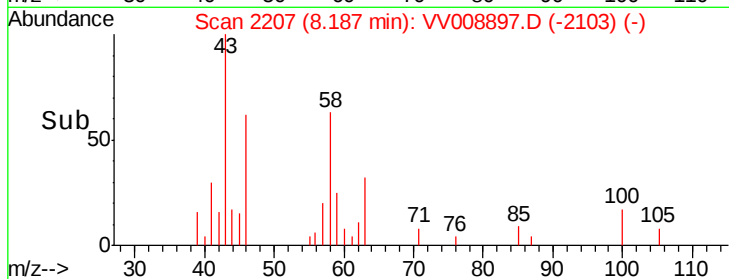
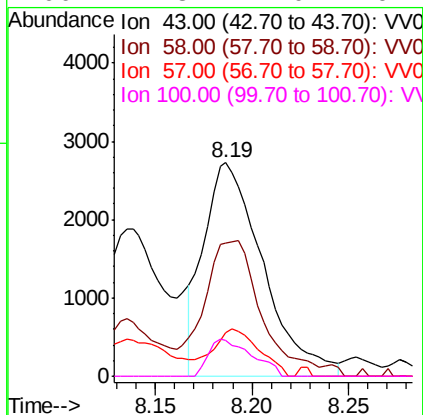
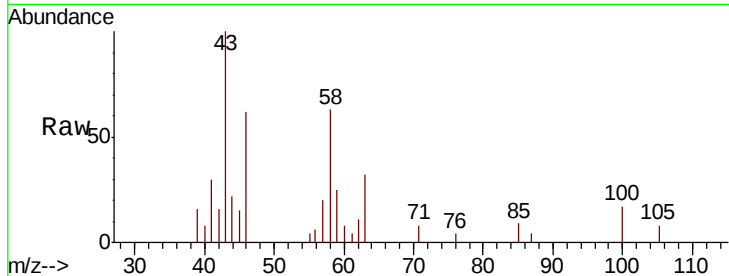
#49
2-Hexanone
Concen: 3.767 ug/L
RT: 8.19 min Scan# 2207
Delta R.T. 0.00 min
Lab File: VV008897.D
Acq: 11 Dec 2018 13:54

Instrument :
MSVOA_V
ClientSampleId :
MDL05

Tot Ion	Ratio	Lower	Upper
43	100		
58	0.0	43.9	65.9#
57	17.3	15.7	23.5
100	12.8	11.0	16.4

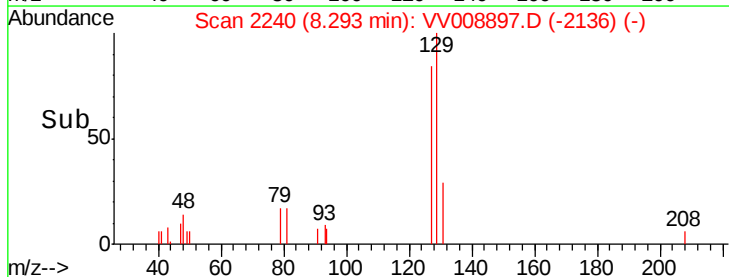
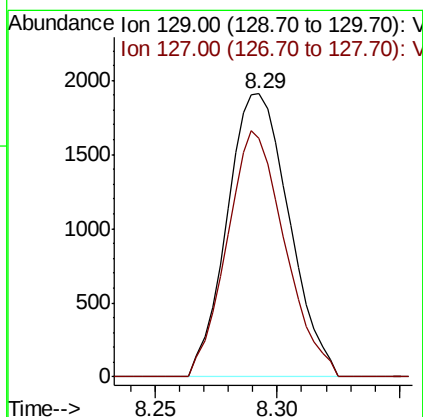
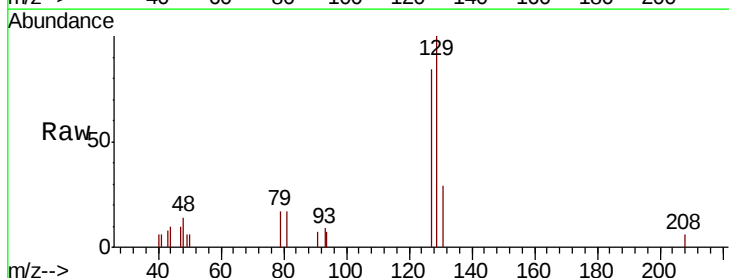
Manual Integrations
APPROVED

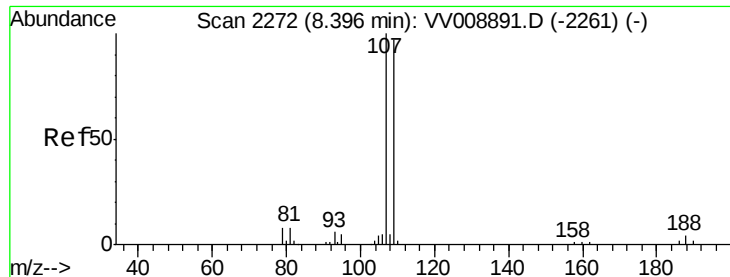
sam
12/12/2018 11:26:56 AM



#50
Dibromochloromethane
Concen: 1.280 ug/L
RT: 8.29 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VV008897.D
Acq: 11 Dec 2018 13:54

Tgt Ion	Ratio	Lower	Upper
129	100		
127	84.2	53.5	99.3





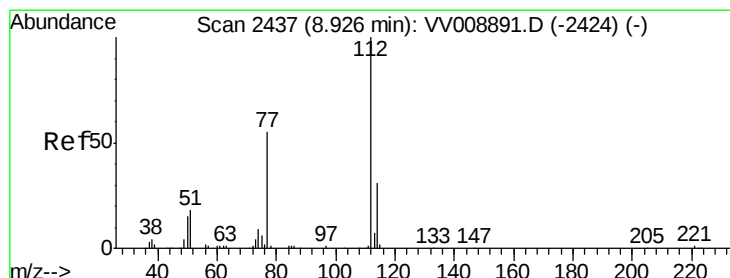
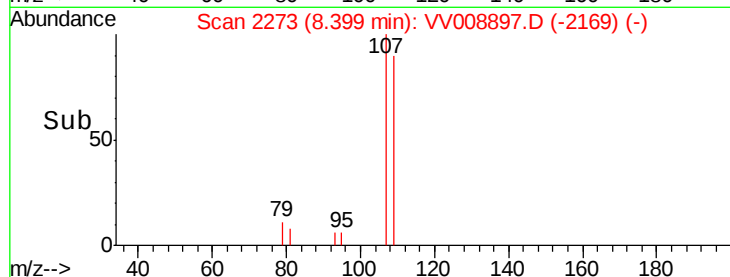
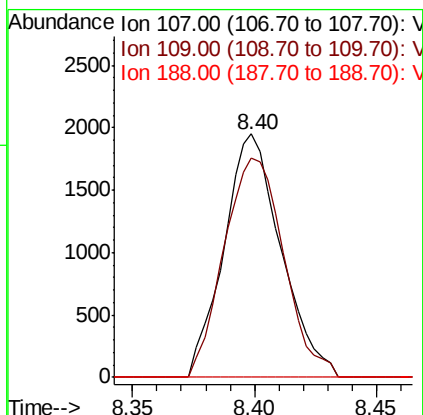
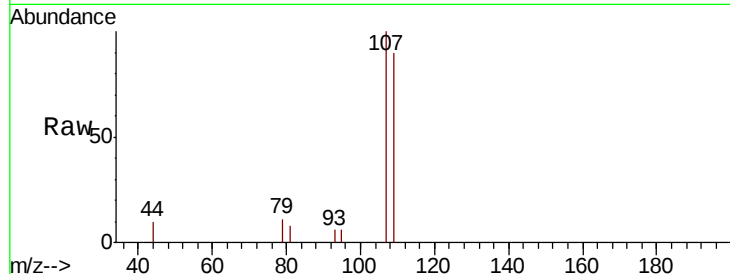
#51
 1,2-Dibromoethane
 Concen: 1.373 ug/L
 RT: 8.40 min Scan# 2273
 Delta R.T. 0.00 min
 Lab File: VV008897.D
 Acq: 11 Dec 2018 13:54

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Tot Ion	Ratio	Lower	Upper
107	100		
109	90.3	65.8	122.2
188	0.0	3.0	4.6#

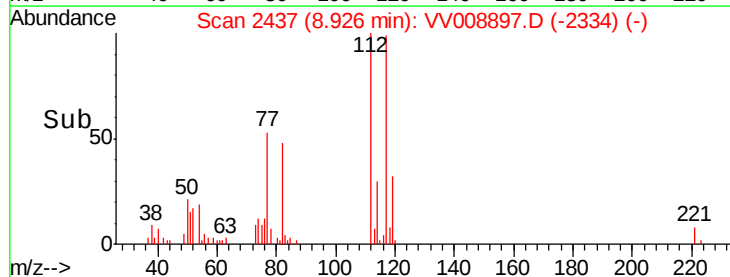
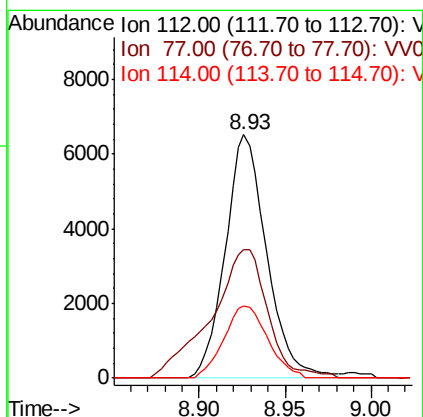
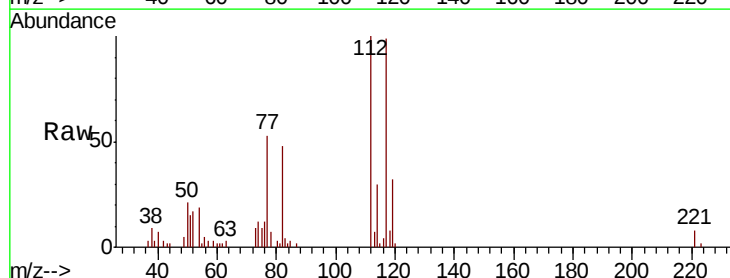
Manual Integrations
 APPROVED

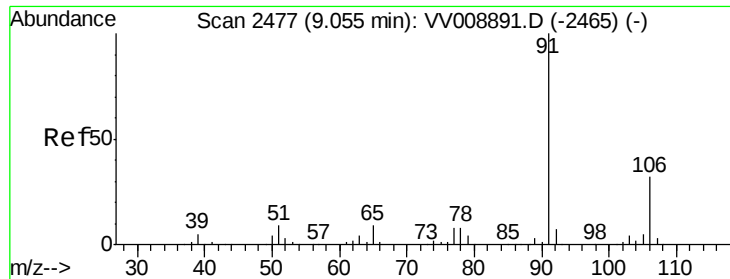
sam
 12/12/2018 11:26:56 AM



#52
 Chlorobenzene
 Concen: 1.398 ug/L
 RT: 8.93 min Scan# 2437
 Delta R.T. -0.00 min
 Lab File: VV008897.D
 Acq: 11 Dec 2018 13:54

Tgt Ion	Ratio	Lower	Upper
112	100		
77	52.9	44.6	66.8
114	29.8	22.6	42.0





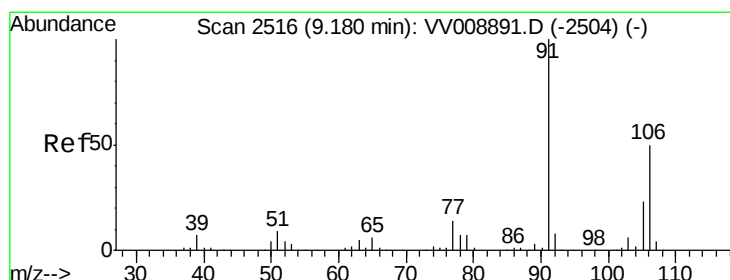
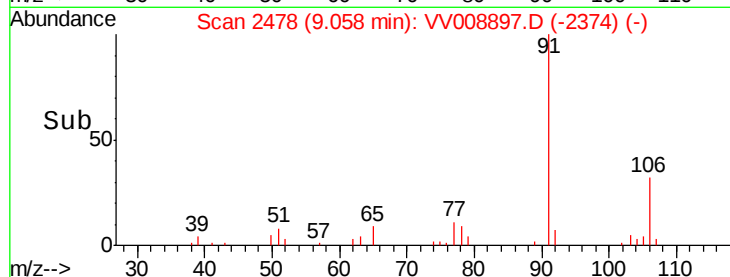
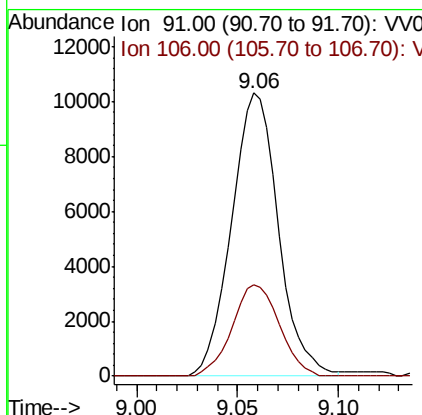
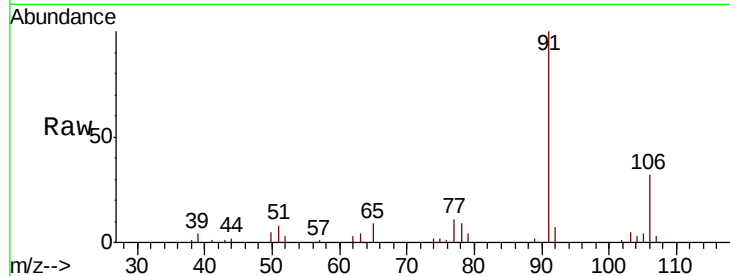
#53
Ethylbenzene
Concen: 1.284 ug/L
RT: 9.06 min Scan# 2478
Delta R.T. 0.00 min
Lab File: VV008897.D
Acq: 11 Dec 2018 13:54

Instrument :
MSVOA_V
ClientSampled :
MDL05

Tot Ion: 91 Resp: 16773
Ion Ratio Lower Upper
91 100
106 32.4 21.3 39.5

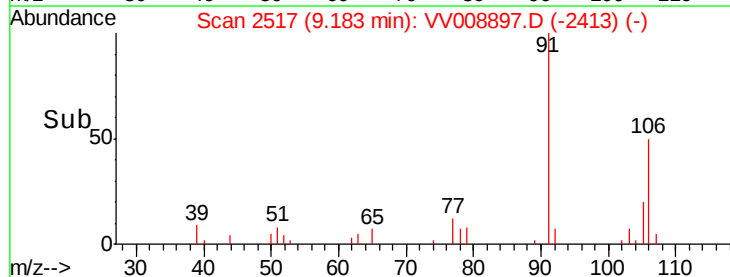
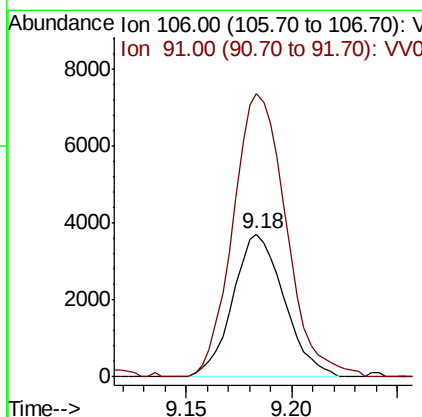
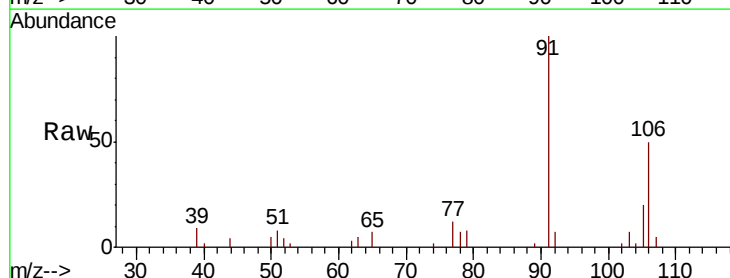
Manual Integrations
APPROVED

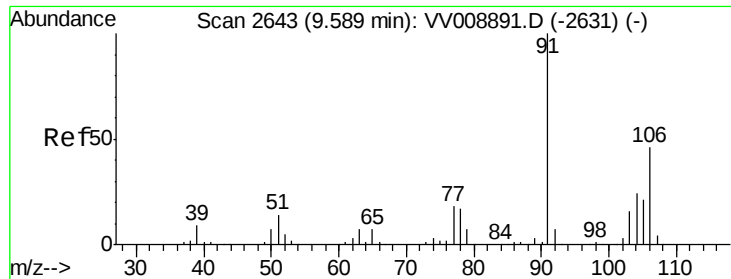
Sam
12/12/2018 11:26:56 AM



#54
m,p-Xylene
Concen: 1.271 ug/L
RT: 9.18 min Scan# 2517
Delta R.T. 0.00 min
Lab File: VV008897.D
Acq: 11 Dec 2018 13:54

Tgt Ion: 106 Resp: 6282
Ion Ratio Lower Upper
106 100
91 198.4 141.3 262.3





#55

o-xylene

Concen: 1.222 ug/L

RT: 9.59 min Scan# 2643

Delta R.T. -0.00 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Tot Ion:106 Resp: 5613

Ion Ratio Lower Upper

106 100

91 224.2 148.3 275.5

Instrument :

MSVOA_V

ClientSampled :

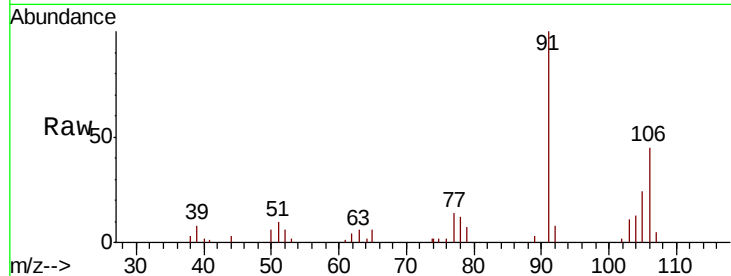
MDL05

Manual Integrations

APPROVED

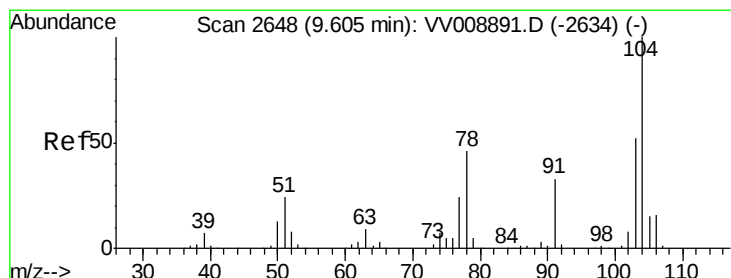
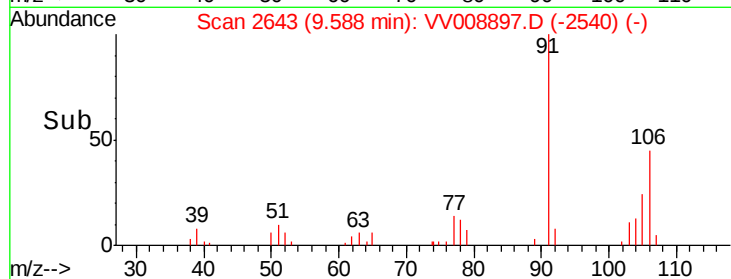
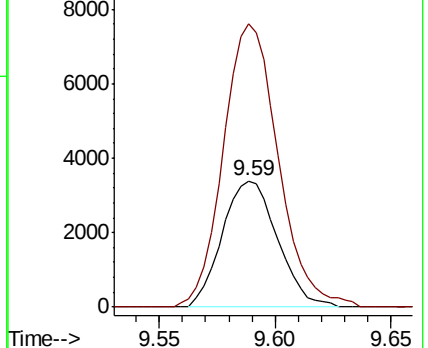
sam

12/12/2018 11:26:56 AM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VV0



#56

Styrene

Concen: 1.185 ug/L

RT: 9.61 min Scan# 2649

Delta R.T. 0.00 min

Lab File: VV008897.D

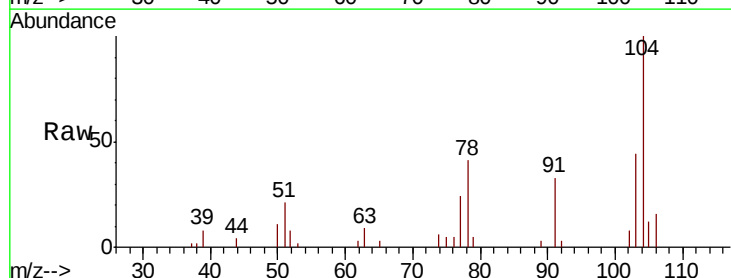
Acq: 11 Dec 2018 13:54

Tgt Ion:104 Resp: 8780

Ion Ratio Lower Upper

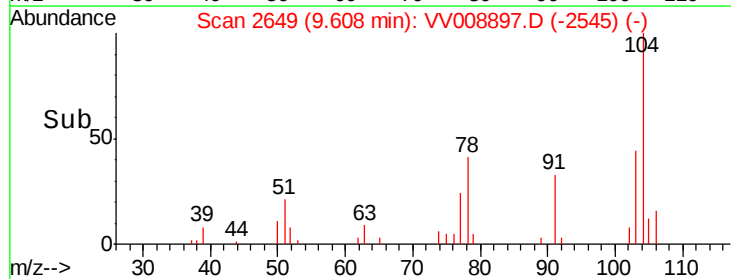
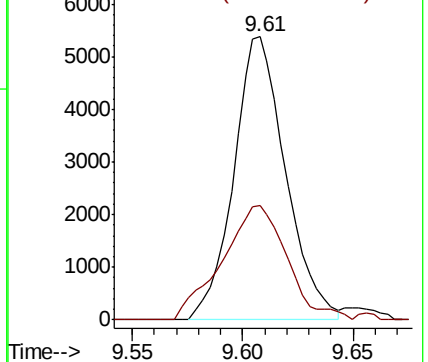
104 100

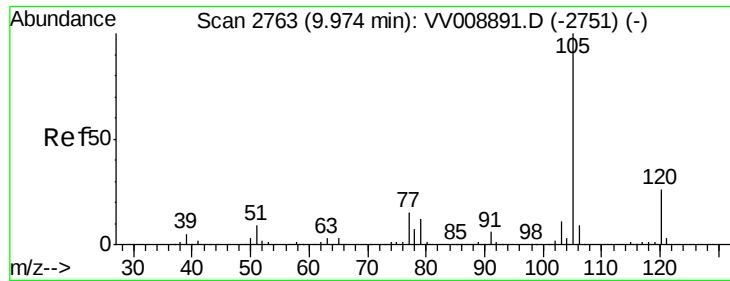
78 40.5 30.6 56.8



Abundance Ion 104.00 (103.70 to 104.70): V

Ion 78.00 (77.70 to 78.70): VV0





#57

Isopropylbenzene

Concen: 1.239 ug/L

RT: 9.98 min Scan# 2764

Delta R.T. 0.00 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Instrument :

MSVOA_V

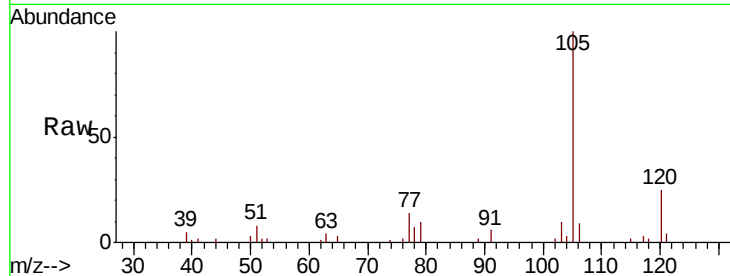
ClientSampleId :

MDL05

Tot Ion:	105	Resp:	15473
Ion Ratio	Lower	Upper	
105	100		
120	26.0	21.7	32.5
77	15.2	12.4	18.6

Manual Integrations
APPROVED

sam
12/12/2018 11:26:56 AM

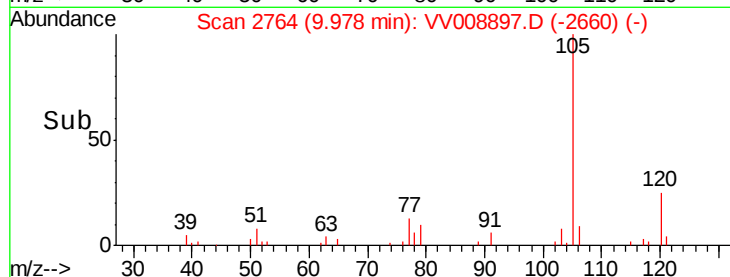


Abundance Ion 105.00 (104.70 to 105.70): VV008897.D (-2660) (-)

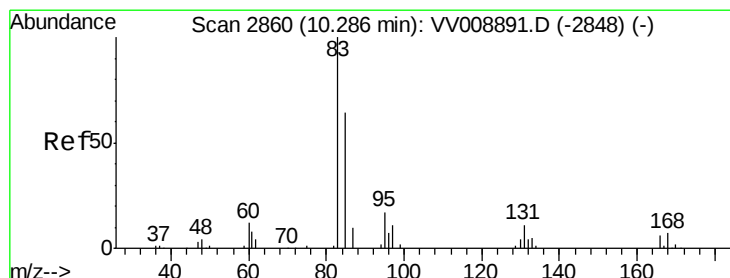
Ion 120.00 (119.70 to 120.70): VV008897.D (-2660) (-)

Ion 77.00 (76.70 to 77.70): VV008897.D (-2660) (-)

Time-->



Time-->



#58

1,1,2,2-Tetrachloroethane

Concen: 1.467 ug/L

RT: 10.29 min Scan# 2860

Delta R.T. -0.00 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

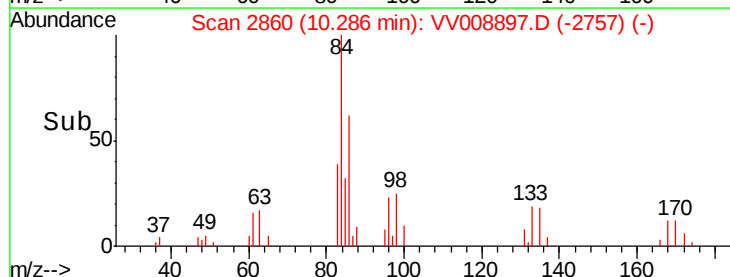
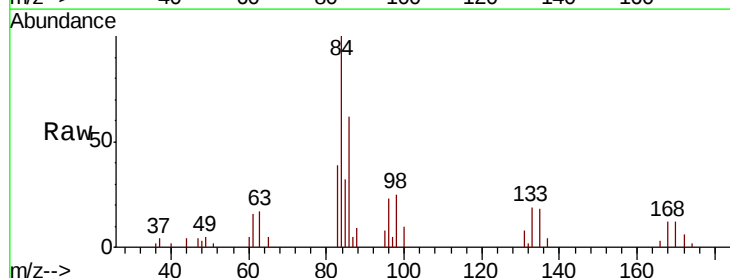
Tgt Ion:	83	Resp:	3639
Ion Ratio	Lower	Upper	
83	100		
85	82.8	44.3	82.3#
131	20.0	7.8	11.8#

Abundance Ion 83.00 (82.70 to 83.70): VV008897.D (-2757) (-)

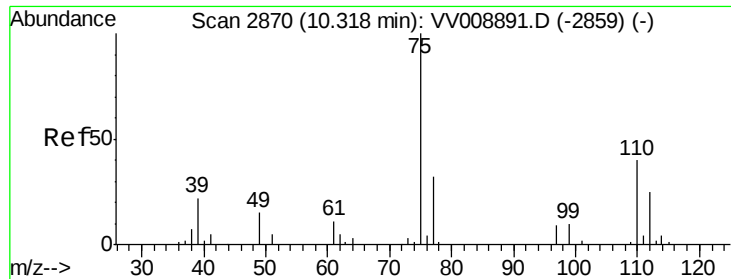
Ion 85.00 (84.70 to 85.70): VV008897.D (-2757) (-)

Ion 131.00 (130.70 to 131.70): VV008897.D (-2757) (-)

Time-->



Time-->



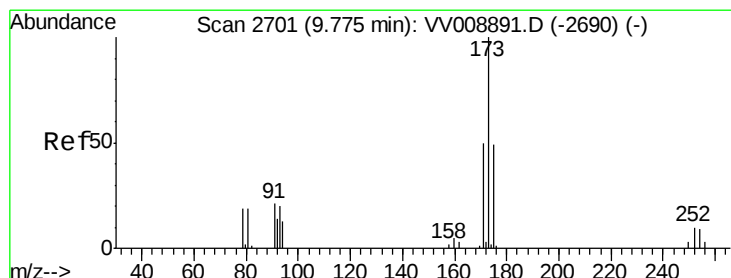
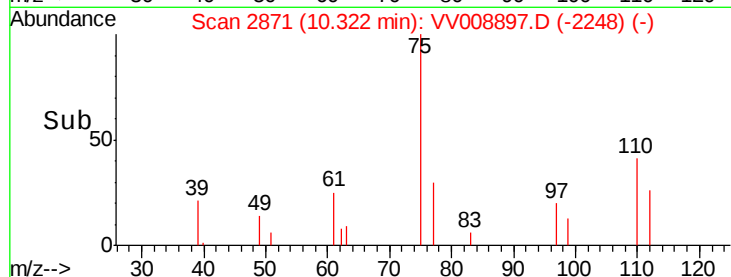
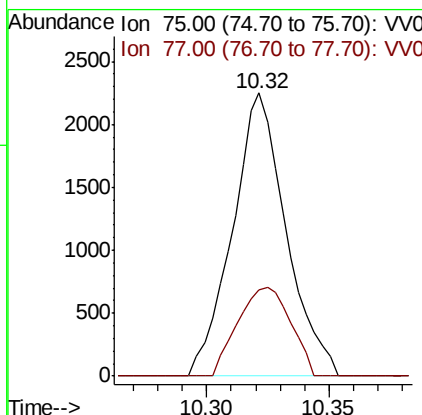
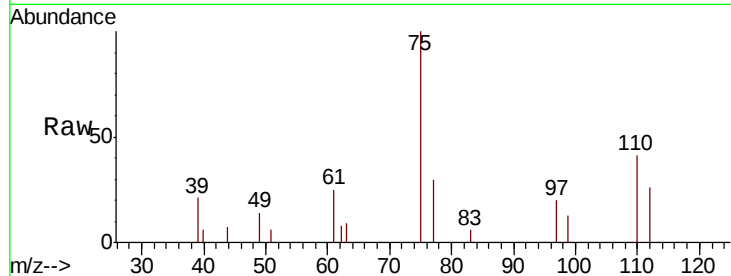
#59
 1,2,3-Trichloropropane
 Concen: 1.594 ug/L
 RT: 10.32 min Scan# 2871
 Delta R.T. 0.00 min
 Lab File: VV008897.D
 Acq: 11 Dec 2018 13:54

Instrument :
 MSVOA_V
 ClientSampleId :
 MDL05

Tot Ion: 75 Resp: 3423
 Ion Ratio Lower Upper
 75 100
 77 31.0 25.6 38.4

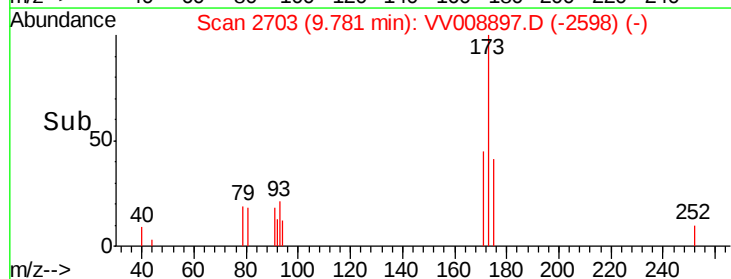
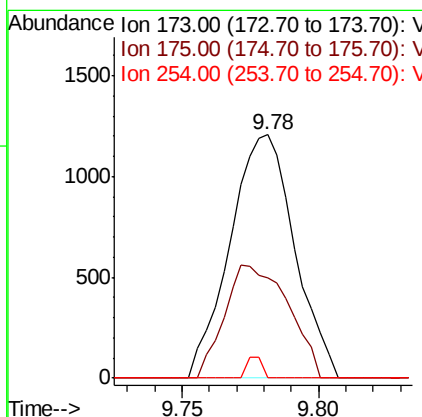
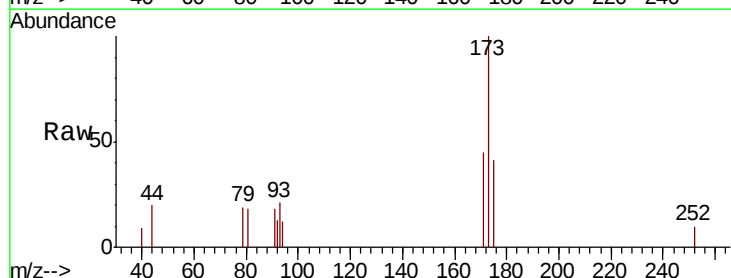
Manual Integrations
 APPROVED

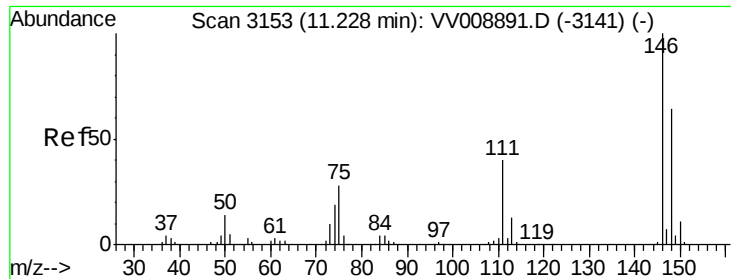
sam
 12/12/2018 11:26:56 AM



#62
 Bromoform
 Concen: 1.352 ug/L
 RT: 9.78 min Scan# 2703
 Delta R.T. 0.01 min
 Lab File: VV008897.D
 Acq: 11 Dec 2018 13:54

Tgt Ion:173 Resp: 1981
 Ion Ratio Lower Upper
 173 100
 175 45.9 37.7 56.5
 254 2.1 7.1 10.7#





#63

1,3-Dichlorobenzene

Concen: 1.329 ug/L

RT: 11.23 min Scan# 3153

Delta R.T. -0.00 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Instrument :

MSVOA_V

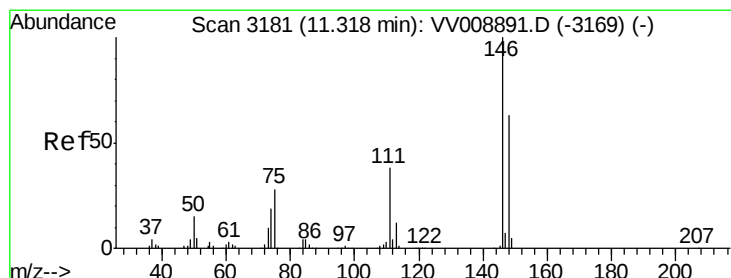
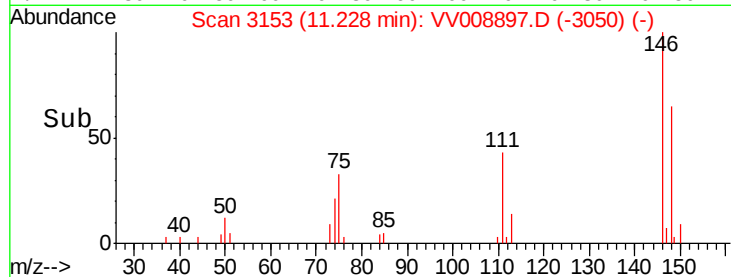
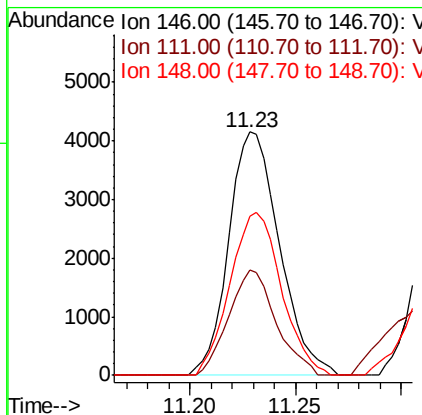
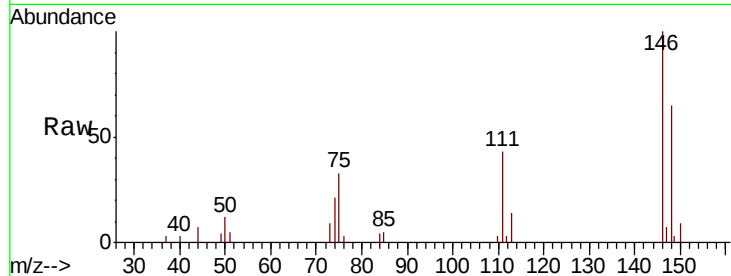
ClientSampled :

MDL05

Tot Ion:	146	Resp:	6949
Ion Ratio	Lower	Upper	
146	100		
111	43.4	27.5	51.1
148	68.6	44.0	81.8

Manual Integrations
APPROVED

sam
12/12/2018 11:26:56 AM



#64

1,4-Dichlorobenzene

Concen: 1.367 ug/L

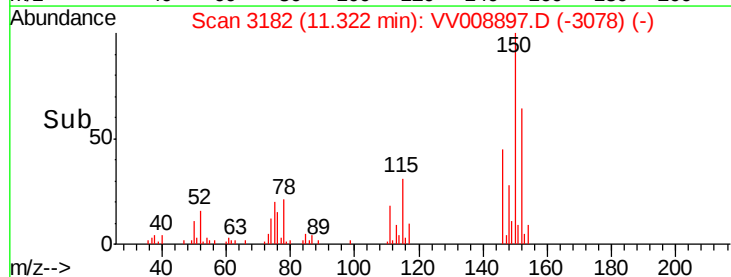
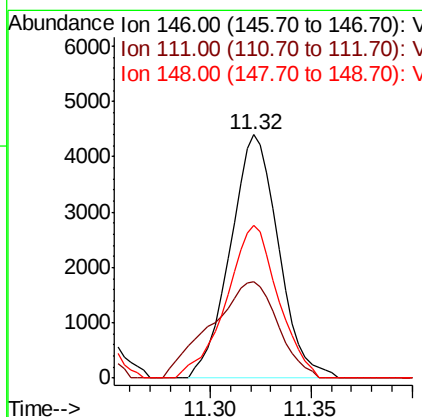
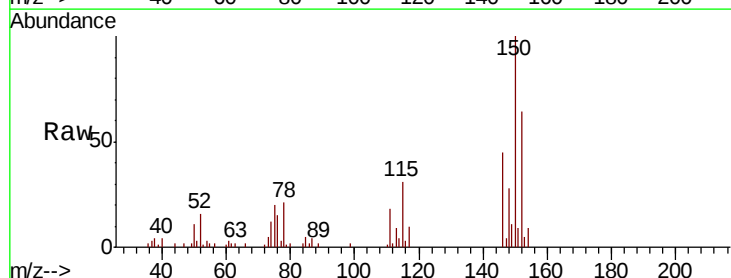
RT: 11.32 min Scan# 3182

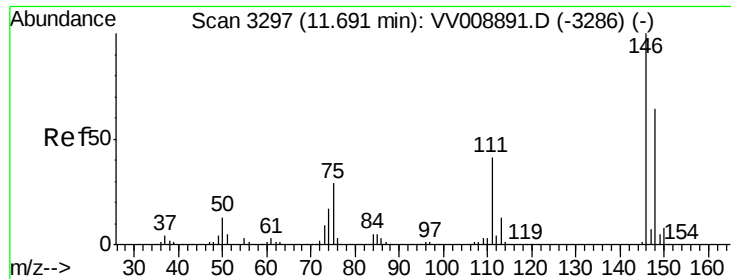
Delta R.T. 0.00 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Tgt Ion:	146	Resp:	7354
Ion Ratio	Lower	Upper	
146	100		
111	39.5	26.8	49.8
148	63.0	45.8	85.0





#65

1,2-Dichlorobenzene

Concen: 1.445 ug/L

RT: 11.69 min Scan# 3298

Delta R.T. 0.00 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Instrument :

MSVOA_V

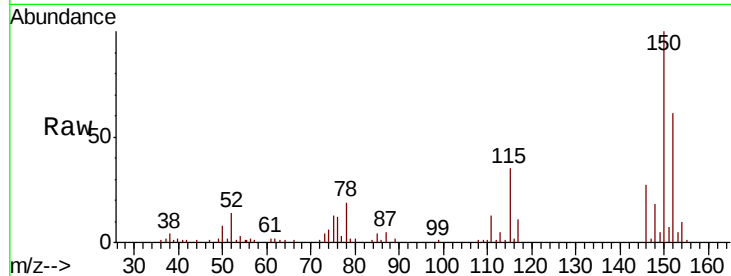
ClientSampleId :

MDL05

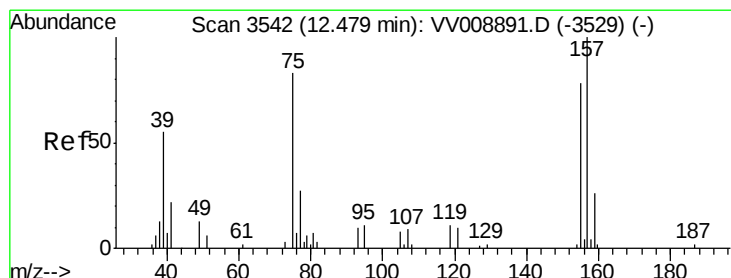
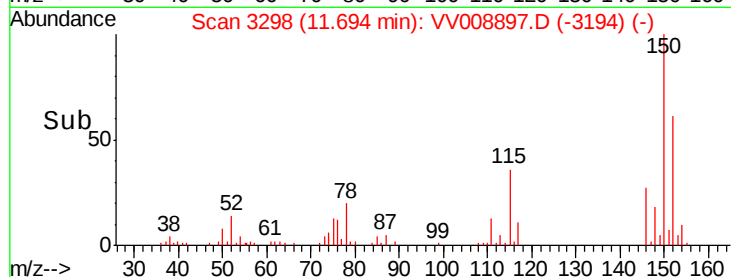
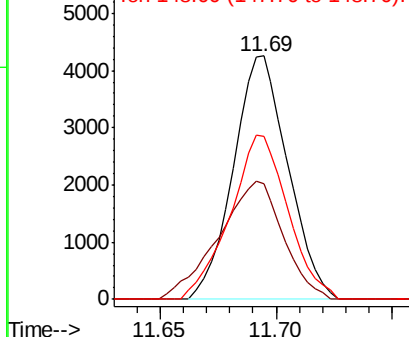
Tot Ion:	146	Resp:	6965
Ion Ratio	Lower	Upper	
146	100		
111	47.5	34.2	51.4
148	66.8	51.0	76.6

Manual Integrations
APPROVED

sam
12/12/2018 11:26:56 AM



Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#66

1,2-Dibromo-3-chloropropane

Concen: 1.403 ug/L m

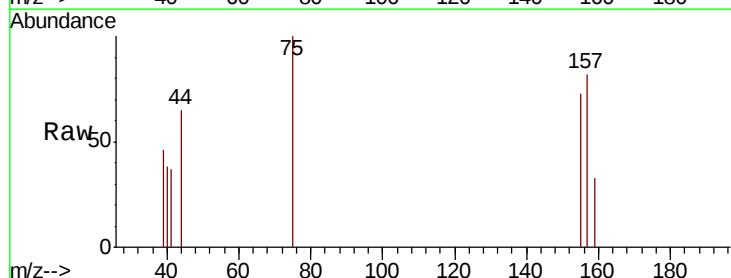
RT: 12.48 min Scan# 3543

Delta R.T. 0.00 min

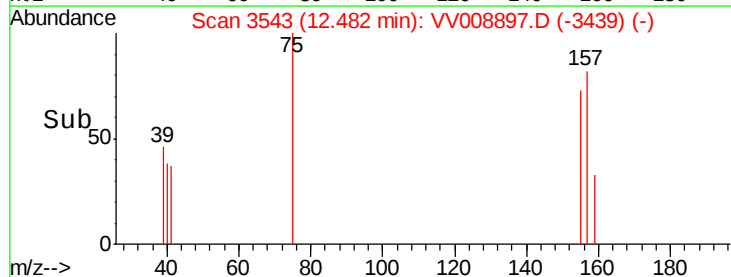
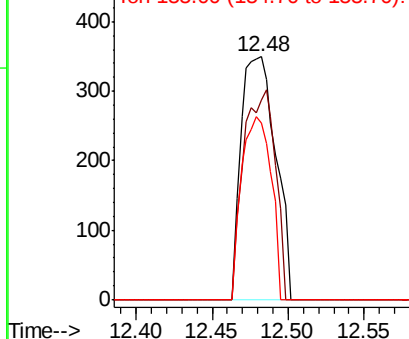
Lab File: VV008897.D

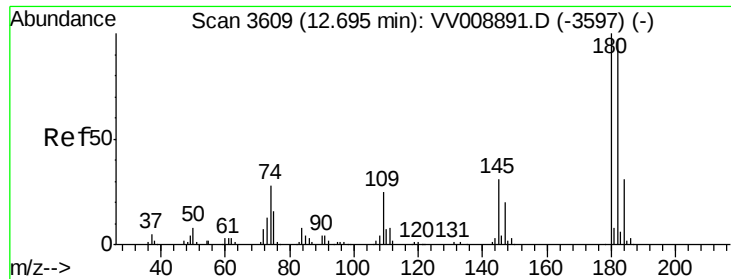
Acq: 11 Dec 2018 13:54

Tgt Ion:	75	Resp:	554
Ion Ratio	Lower	Upper	
75	100		
157	82.3	95.8	143.6#
155	72.6	71.4	107.2



Abundance Ion 75.00 (74.70 to 75.70): VV0
Ion 157.00 (156.70 to 157.70): V
Ion 155.00 (154.70 to 155.70): V





#67

1,3,5-Trichlorobenzene

Concen: 1.129 ug/L

RT: 12.70 min Scan# 3610

Delta R.T. 0.00 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Instrument :

MSVOA_V

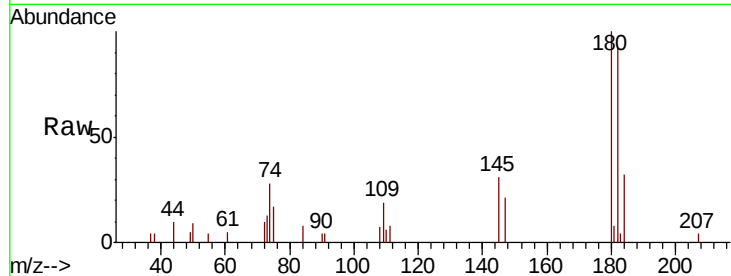
ClientSampleId :

MDL05

Tot Ion:	180	Resp:	4265
Ion	Ratio	Lower	Upper
180	100		
182	91.1	75.9	113.9
184	31.7	23.8	35.6
145	29.8	24.2	36.4

Manual Integrations
APPROVED

sam
12/12/2018 11:26:56 AM



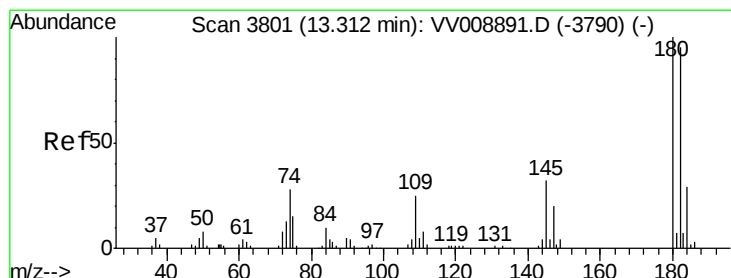
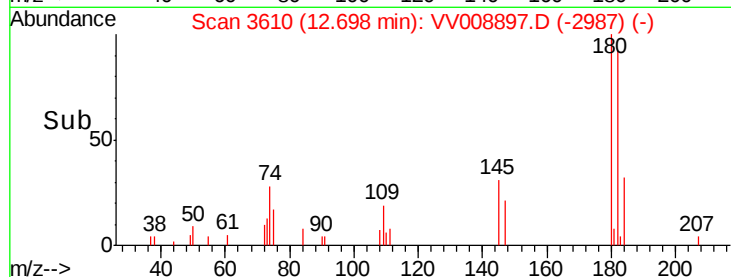
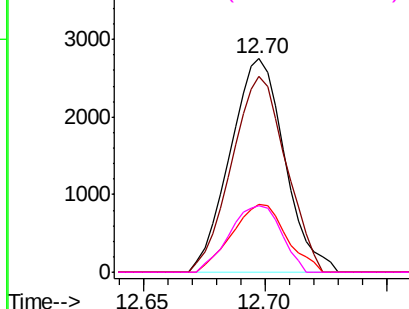
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 184.00 (183.70 to 184.70): V

Ion 145.00 (144.70 to 145.70): V



#68

1,2,4-trichlorobenzene

Concen: 0.986 ug/L

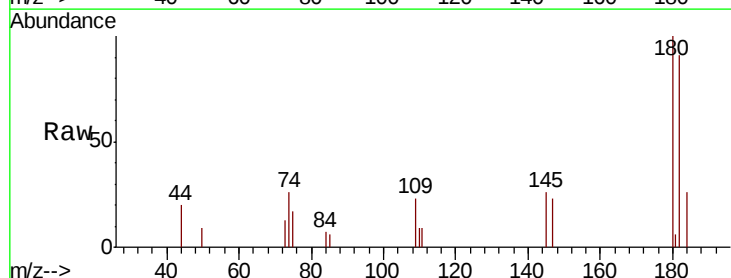
RT: 13.32 min Scan# 3802

Delta R.T. 0.00 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Tgt Ion:	180	Resp:	2608
Ion	Ratio	Lower	Upper
180	100		
182	97.6	77.4	116.0
145	29.7	25.6	38.4

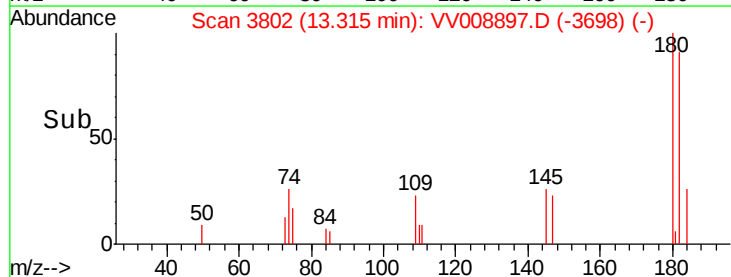
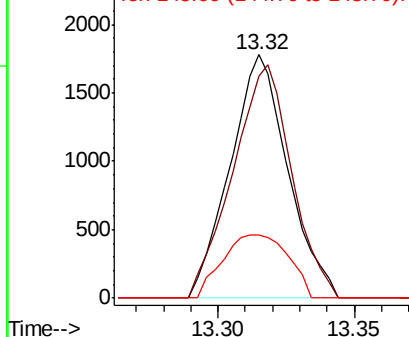


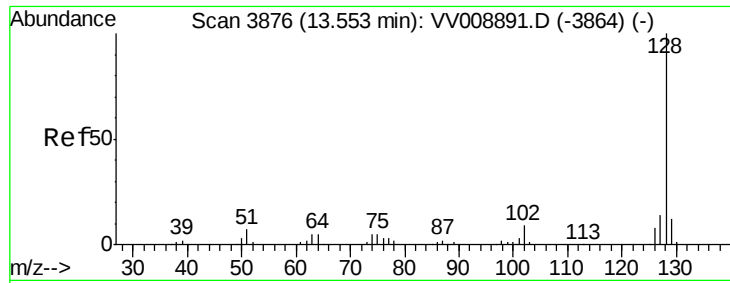
Abundance

Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V





#69

Naphthalene

Concen: 0.882 ug/L

RT: 13.56 min Scan# 3877

Delta R.T. 0.00 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Instrument :

MSVOA_V

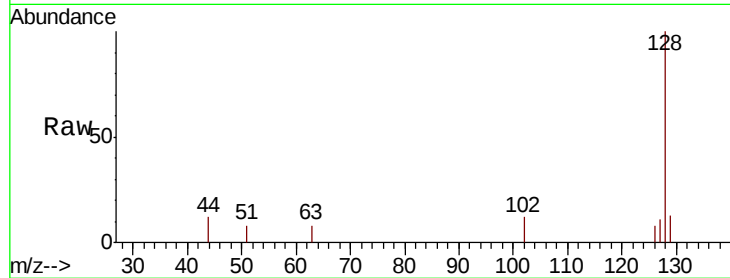
ClientSampleId :

MDL05

Tot Ion	Ratio	Lower	Upper
128	100		
129	0.0	8.6	13.0#
127	7.1	10.0	15.0#

Manual Integrations
APPROVED

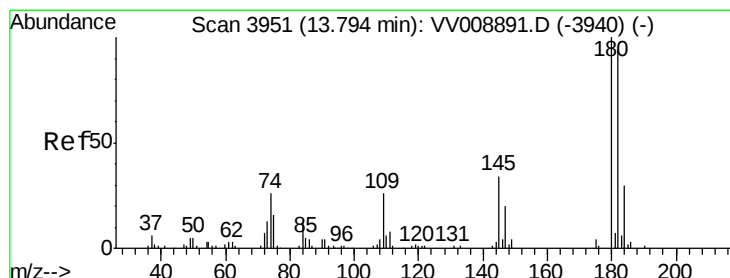
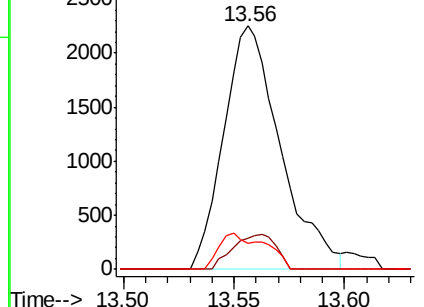
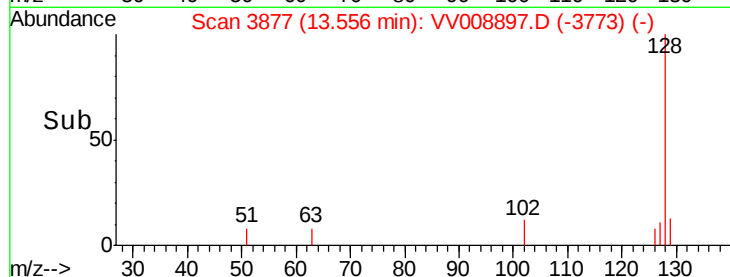
sam
12/12/2018 11:26:56 AM



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#70

1,2,3-Trichlorobenzene

Concen: 0.909 ug/L

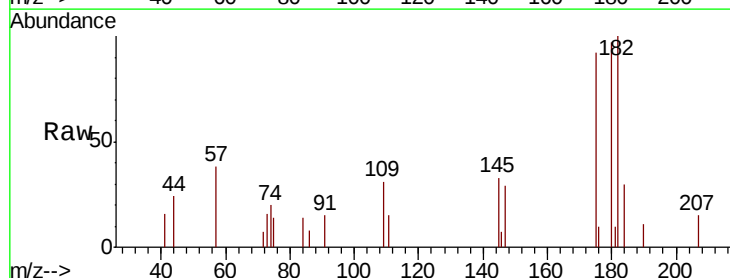
RT: 13.80 min Scan# 3952

Delta R.T. 0.00 min

Lab File: VV008897.D

Acq: 11 Dec 2018 13:54

Tgt Ion	Ratio	Lower	Upper
180	100		
182	100.1	76.1	114.1
145	34.4	26.7	40.1



Abundance Ion 180.00 (179.70 to 180.70): V

Ion 182.00 (181.70 to 182.70): V

Ion 145.00 (144.70 to 145.70): V

