

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV112619\
 Data File : VV013805.D
 Acq On : 26 Nov 2019 22:51
 Operator : SY/MD
 Sample : K6056-05
 Misc : 25.0mL/MSVOA V/WATER
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampled :
 BFE12

Manual Integrations
 APPROVED

MMDadoda
 11/27/2019 11:40:43 AM

Quant Time: Nov 27 04:44:51 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
 Quant Title : TRACE VOA SOM01.0
 QLast Update : Wed Nov 27 03:09:16 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Difluorobenzene	5.66	114	331767	5.00	ug/L	0.00
28) Chlorobenzene-d5	8.89	117	335972	5.00	ug/L	0.00
60) 1,4-Dichlorobenzene-d4	11.29	152	145818	5.00	ug/L	0.00

System Monitoring Compounds

4) Vinyl Chloride-d3	1.32	65	79644	3.88	ug/L	0.00
Spiked Amount	5.000	Range	40 - 130	Recovery	=	77.60%
7) Chloroethane-d5	1.58	69	79886	4.58	ug/L	0.00
Spiked Amount	5.000	Range	65 - 130	Recovery	=	91.60%
11) 1,1-Dichloroethene-d2	2.14	63	444079	12.85	ug/L	0.02
Spiked Amount	5.000	Range	60 - 125	Recovery	=	257.00%#
20) 2-Butanone-d5	3.92	46	251558	58.93	ug/L	-0.03
Spiked Amount	50.000	Range	40 - 130	Recovery	=	117.86%
24) Chloroform-d	4.40	84	171425	4.14	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	82.80%
26) 1,2-Dichloroethane-d4	5.08	65	99249	5.04	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	100.80%
32) Benzene-d6	5.10	84	367192	4.24	ug/L	0.00
Spiked Amount	5.000	Range	70 - 125	Recovery	=	84.80%
36) 1,2-Dichloropropane-d6	6.11	67	116605	4.51	ug/L	0.00
Spiked Amount	5.000	Range	60 - 140	Recovery	=	90.20%
41) Toluene-d8	7.36	98	305001	3.75	ug/L	0.00
Spiked Amount	5.000	Range	70 - 130	Recovery	=	75.00%
43) trans-1,3-Dichloropropene-	7.66	79	39907	3.97	ug/L	0.00
Spiked Amount	5.000	Range	55 - 130	Recovery	=	79.40%
46) 2-Hexanone-d5	8.13	63	178529	48.14	ug/L	0.00
Spiked Amount	50.000	Range	45 - 130	Recovery	=	96.28%
57) 1,1,2,2-Tetrachloroethane-	10.26	84	91403	5.10	ug/L	0.00
Spiked Amount	5.000	Range	65 - 120	Recovery	=	102.00%
64) 1,2-Dichlorobenzene-d4	11.67	152	132742	5.16	ug/L	0.00
Spiked Amount	5.000	Range	80 - 120	Recovery	=	103.20%

Target Compounds

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
10) 1,1,2-Trichloro-1,2,2-trif	2.14	101	10907	0.596	ug/L #	84
12) 1,1-Dichloroethene	2.14	96	650968	40.811	ug/L #	68
13) Acetone	2.19	43	7625m	2.554	ug/L	
17) Methyl tert-butyl Ether	2.80	73	38195	0.875	ug/L	98
18) trans-1,2-Dichloroethene	2.79	96	4130	0.229	ug/L	98
19) 1,1-Dichloroethane	3.23	63	469701	13.062	ug/L	99
22) cis-1,2-Dichloroethene	3.96	96	484335	22.930	ug/L	99
25) Chloroform	4.42	83	57259	1.502	ug/L	95
27) 1,2-Dichloroethane	5.19	62	4645	0.213	ug/L #	85
29) 1,1,1-Trichloroethane	4.66	97	186755	5.434	ug/L	98
34) Trichloroethene	5.96	95	1622912	71.386	ug/L	98
45) 1,1,2-Trichloroethane	7.88	97	2912	0.193	ug/L	92
47) Tetrachloroethene	8.02	164	682837	34.590	ug/L	98

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

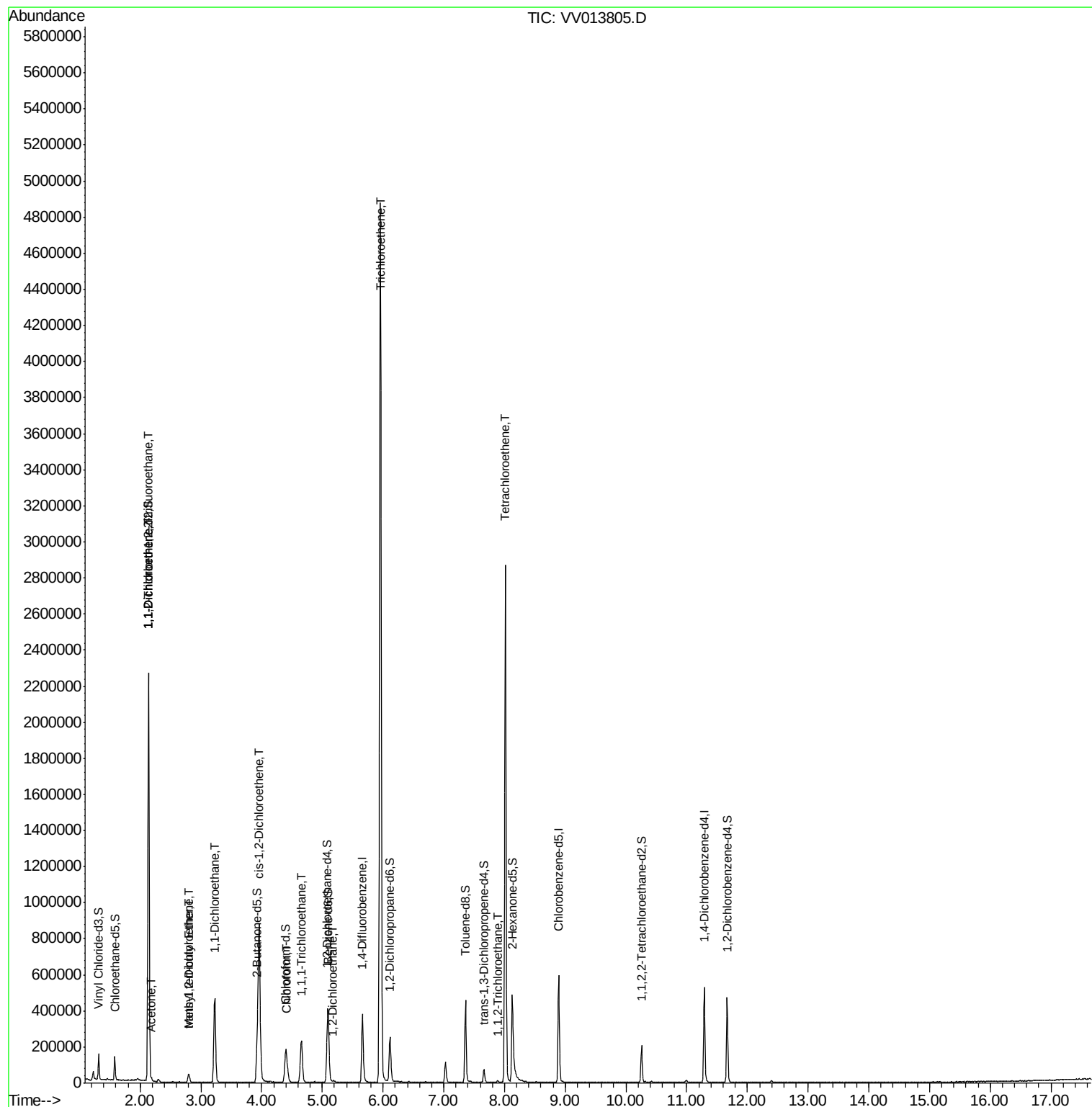
Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV112619\
Data File : VV013805.D
Acq On : 26 Nov 2019 22:51
Operator : SY/MD
Sample : K6056-05
Misc : 25.0mL/MSVOA V/WATER
ALS Vial : 31 Sample Multiplier: 1

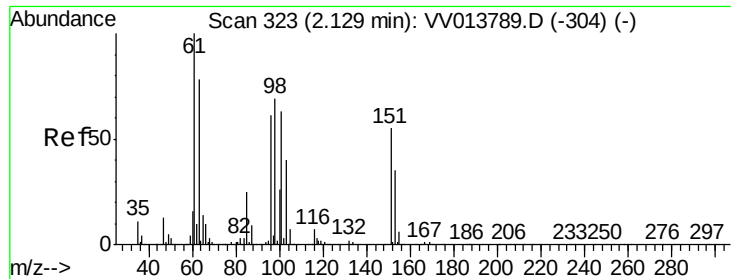
Instrument :
MSVOA_V
ClientSampleId :
BFE12

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Quant Time: Nov 27 04:44:51 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOMVTR112219WMA.M
Quant Title : TRACE VOA SOM01.0
QLast Update : Wed Nov 27 03:09:16 2019
Response via : Initial Calibration





#10

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

Concen: 0.596 ug/L

RT: 2.14 min Scan# 326

Delta R.T. 0.01 min

Lab File: VV013805.D

Acq: 26 Nov 2019 22:51

Instrument :

MSVOA_V

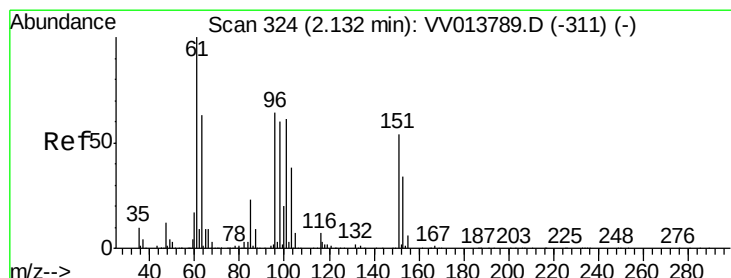
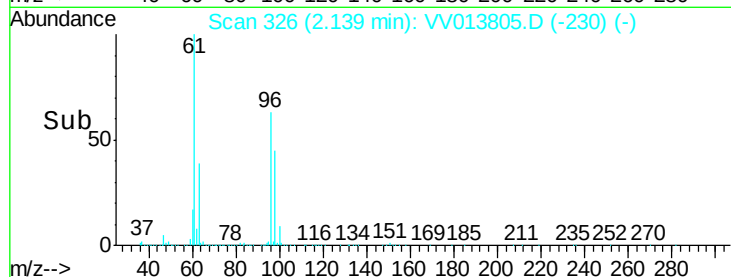
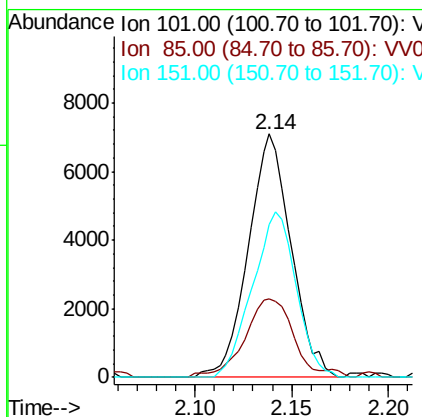
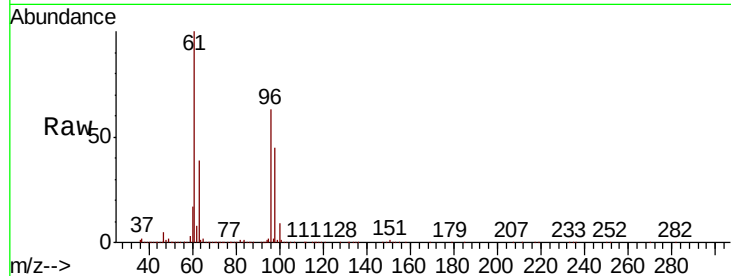
ClientSampleId :

BFE12

Tot Ion:	101	Resp:	10907
Ion Ratio	Lower	Upper	
101	100		
85	35.7	33.4	50.0
151	69.2	69.4	104.0#

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#12

1,1-Dichloroethene

Concen: 40.811 ug/L

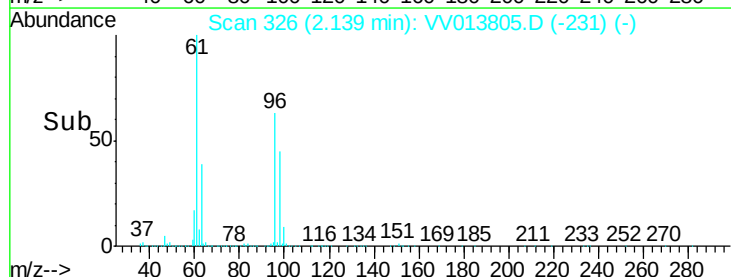
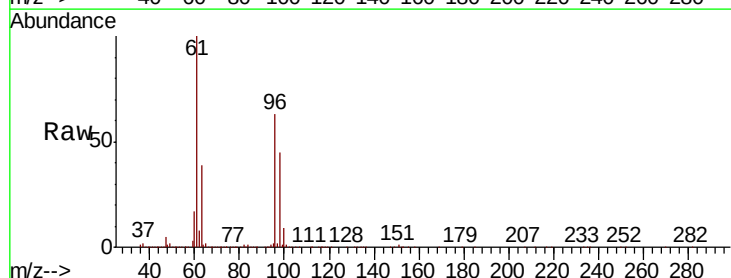
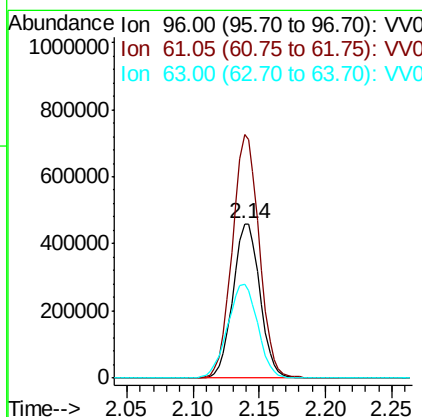
RT: 2.14 min Scan# 326

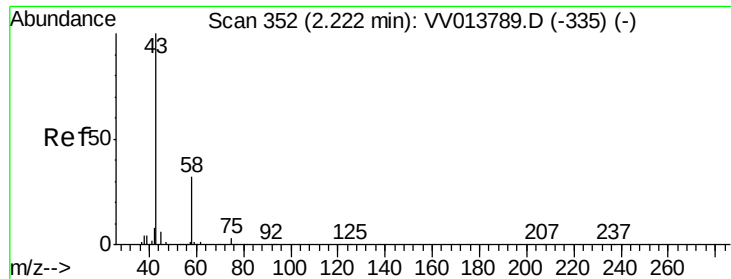
Delta R.T. 0.01 min

Lab File: VV013805.D

Acq: 26 Nov 2019 22:51

Tgt Ion:	96	Resp:	650968
Ion Ratio	Lower	Upper	
96	100		
61	158.1	116.3	215.9
63	61.1	96.7	179.7#





#13

Acetone

Concen: 2.554 ug/L m

RT: 2.19 min Scan# 341

Delta R.T. -0.04 min

Lab File: VV013805.D

Acq: 26 Nov 2019 22:51

Instrument :

MSVOA_V

ClientSampleId :

BFE12

Tot Ion: 43 Resp: 7625

Ion Ratio Lower Upper

43 100

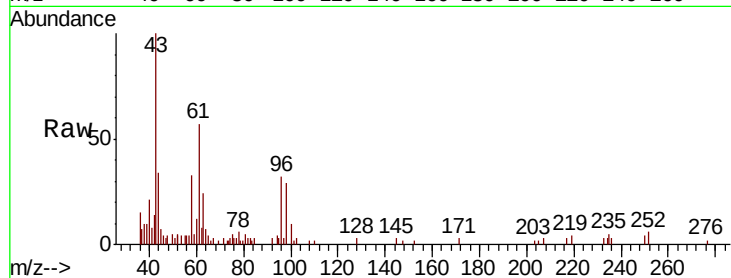
58 4.9 0.0 27.2

Manual Integrations

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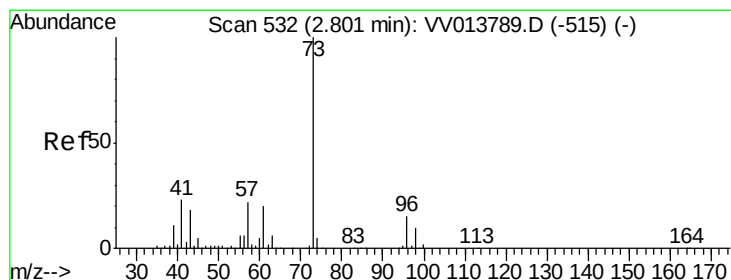
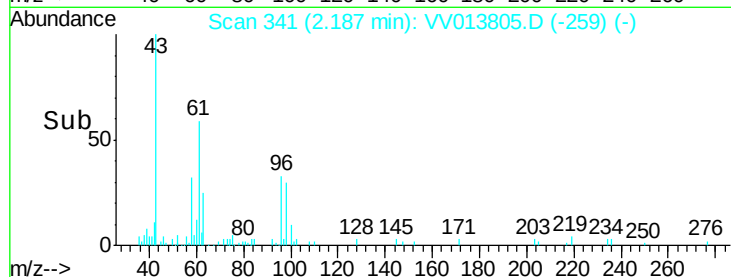
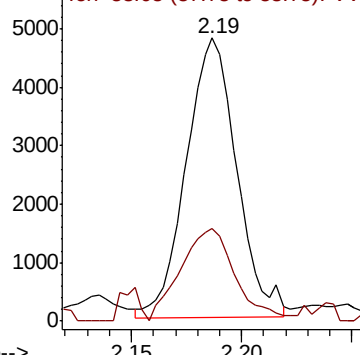
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Abundance Ion 43.05 (42.75 to 43.75): VV0

Ion 58.05 (57.75 to 58.75): VV0



#17

Methyl tert-butyl Ether

Concen: 0.875 ug/L

RT: 2.80 min Scan# 532

Delta R.T. -0.00 min

Lab File: VV013805.D

Acq: 26 Nov 2019 22:51

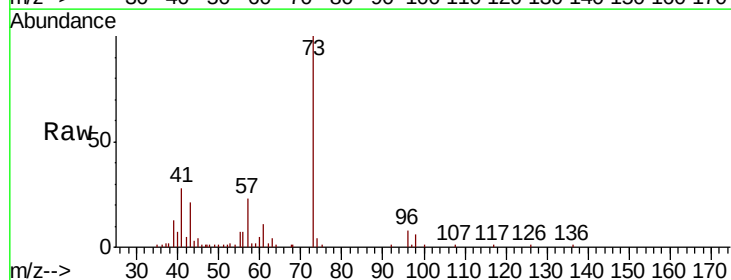
Tgt Ion: 73 Resp: 38195

Ion Ratio Lower Upper

73 100

43 21.3 15.5 23.3

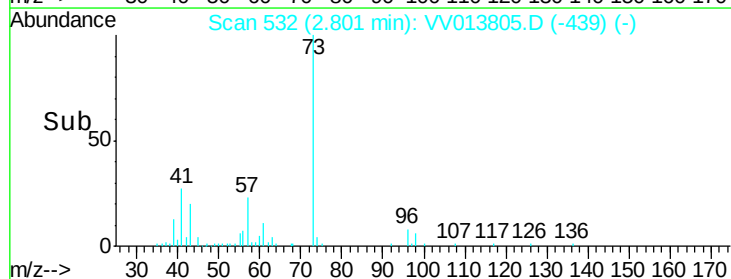
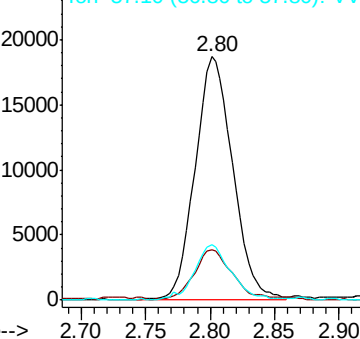
57 21.9 17.5 26.3

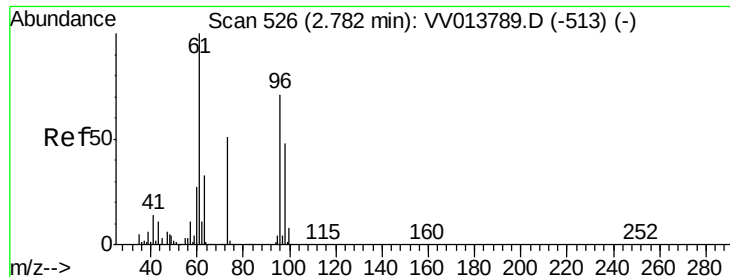


Abundance Ion 73.10 (72.80 to 73.80): VV0

Ion 43.05 (42.75 to 43.75): VV0

Ion 57.10 (56.80 to 57.80): VV0





#18

trans-1,2-Dichloroethene

Concen: 0.229 ug/L

RT: 2.79 min Scan# 529

Delta R.T. 0.01 min

Lab File: VV013805.D

Acq: 26 Nov 2019 22:51

Instrument :

MSVOA_V

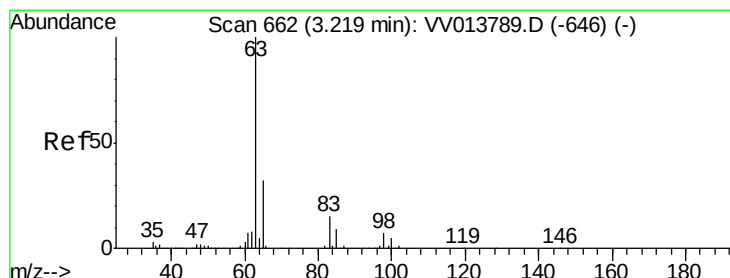
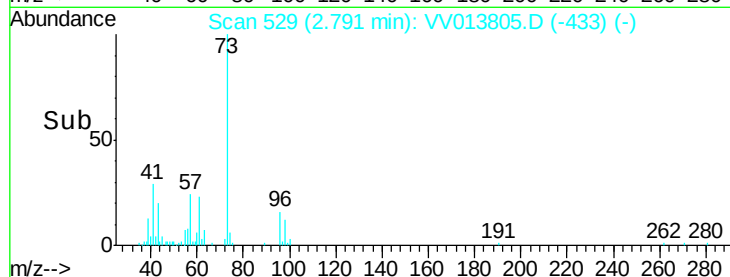
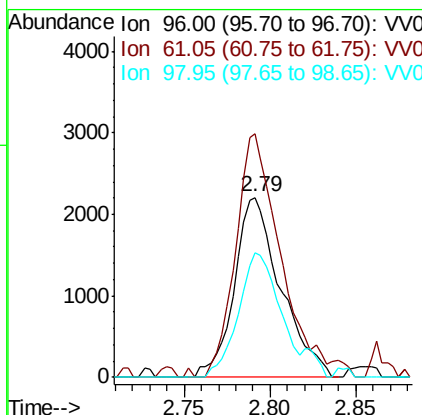
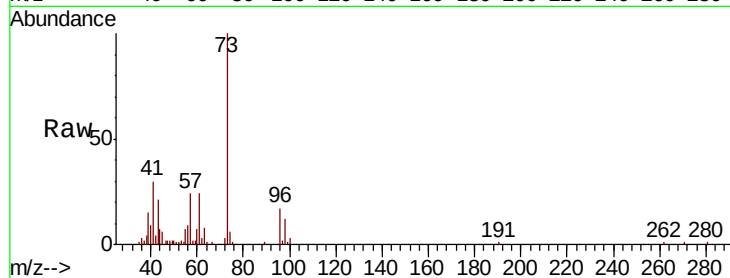
ClientSampled :

BFE12

Tot Ion:	96	Resp:	4130
Ion	Ratio	Lower	Upper
96	100		
61	135.5	95.1	176.7
98	69.6	46.5	86.3

Manual Integrations
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#19

1,1-Dichloroethane

Concen: 13.062 ug/L

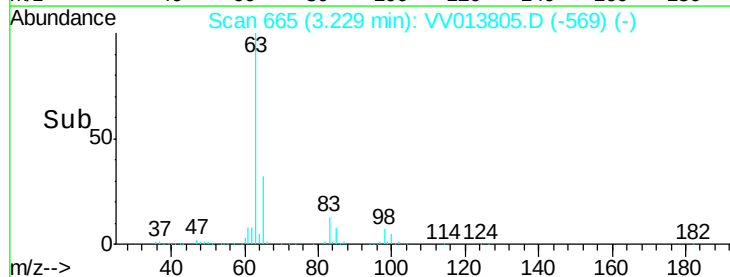
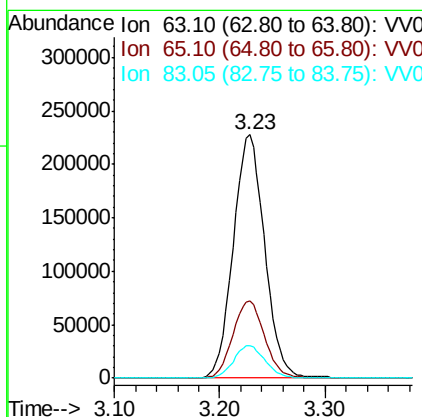
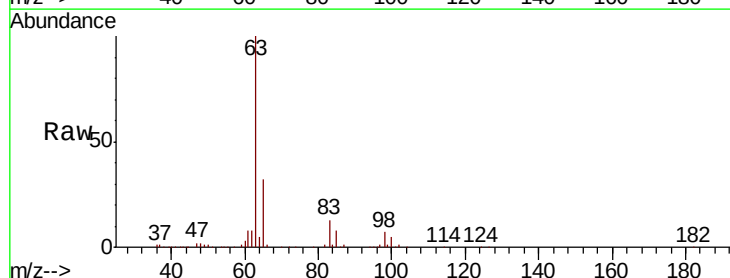
RT: 3.23 min Scan# 665

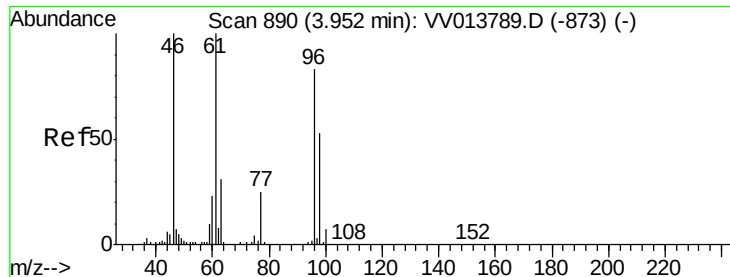
Delta R.T. 0.01 min

Lab File: VV013805.D

Acq: 26 Nov 2019 22:51

Tgt Ion:	63	Resp:	469701
Ion	Ratio	Lower	Upper
63	100		
65	31.7	22.7	42.1
83	13.2	9.2	17.2





#22

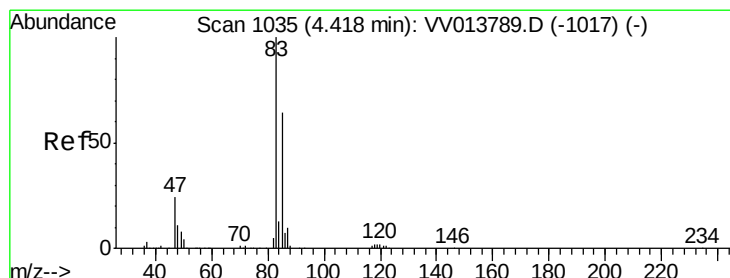
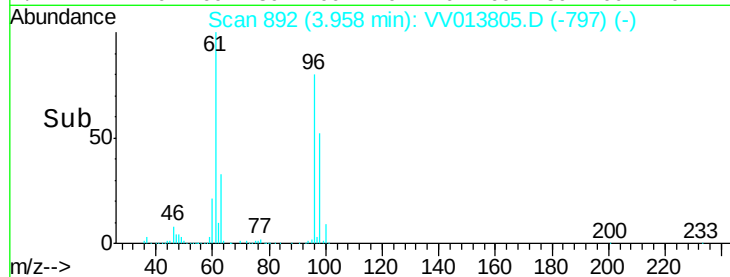
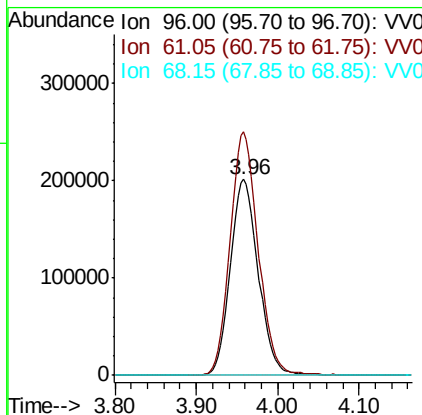
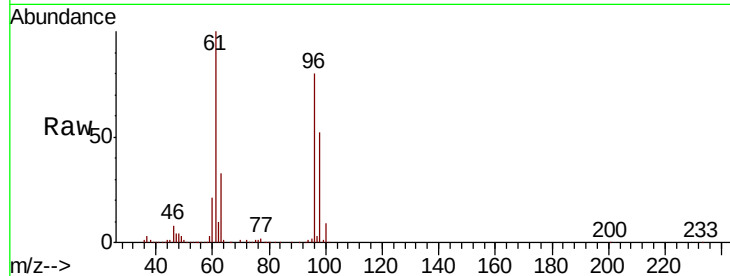
cis-1,2-Dichloroethene
 Concen: 22.930 ug/L
 RT: 3.96 min Scan# 892
 Delta R.T. 0.01 min
 Lab File: VV013805.D
 Acq: 26 Nov 2019 22:51

Instrument :
 MSVOA_V
 ClientSampleId :
 BFE12

Tot Ion	Ratio	Resp	Lower	Upper
96	100	484335		
61	124.2		86.1	159.9
68	0.0		0.0	0.0

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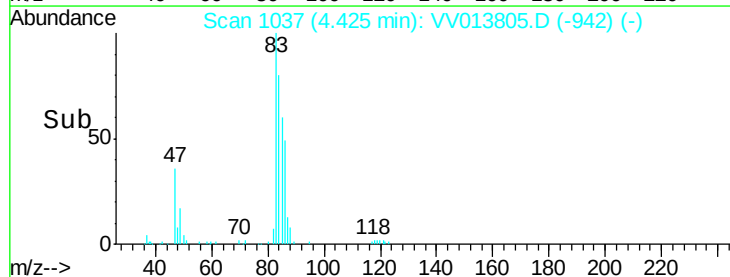
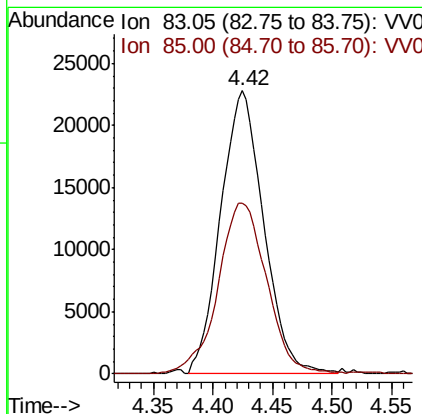
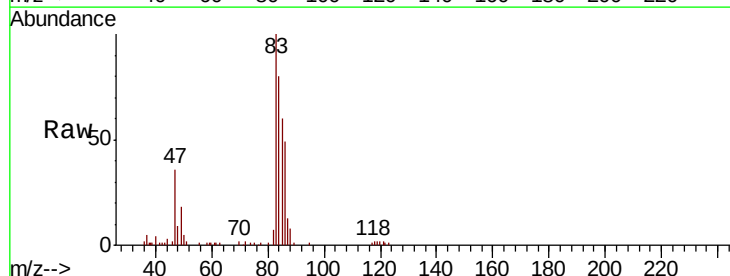
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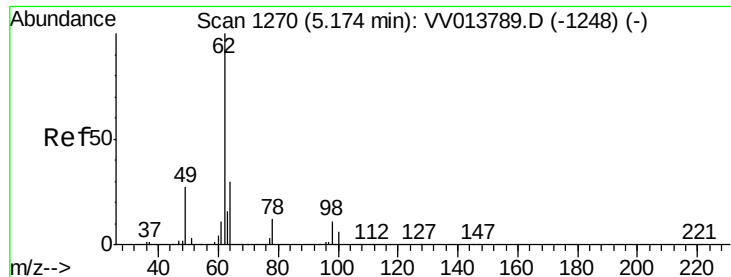


#25

Chloroform
 Concen: 1.502 ug/L
 RT: 4.42 min Scan# 1037
 Delta R.T. 0.01 min
 Lab File: VV013805.D
 Acq: 26 Nov 2019 22:51

Tgt Ion	Ratio	Resp	Lower	Upper
83	100	57259		
85	60.5		45.1	83.7





#27

1,2-Dichloroethane

Concen: 0.213 ug/L

RT: 5.19 min Scan# 1274

Delta R.T. 0.01 min

Lab File: VV013805.D

Acq: 26 Nov 2019 22:51

Instrument :

MSVOA_V

ClientSampleId :

BFE12

Tot Ion: 62 Resp: 4645

Ion Ratio Lower Upper

62 100

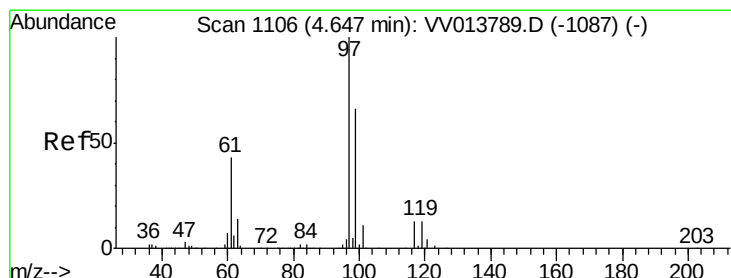
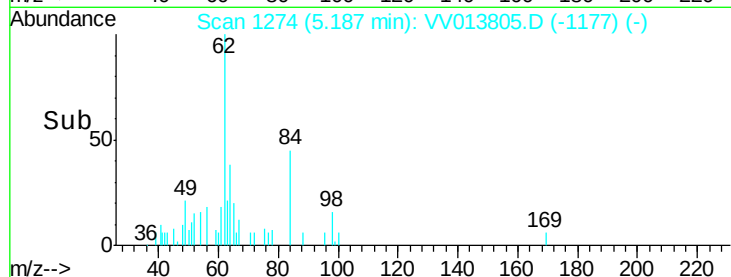
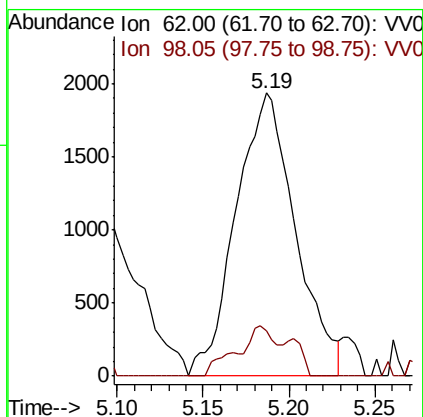
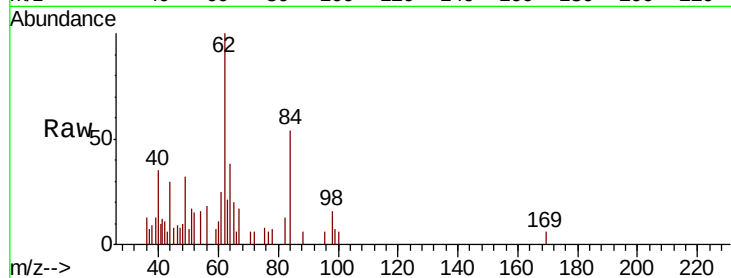
98 15.8 8.2 12.2#

Manual Integrations

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#29

1,1,1-Trichloroethane

Concen: 5.434 ug/L

RT: 4.66 min Scan# 1109

Delta R.T. 0.01 min

Lab File: VV013805.D

Acq: 26 Nov 2019 22:51

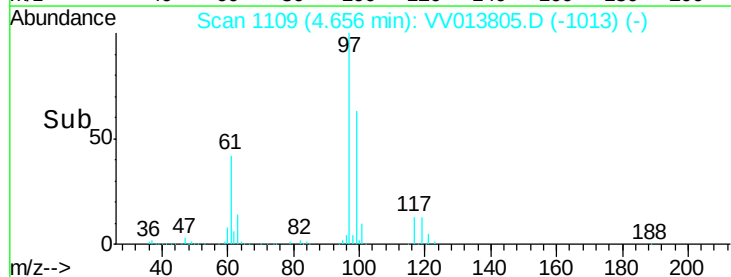
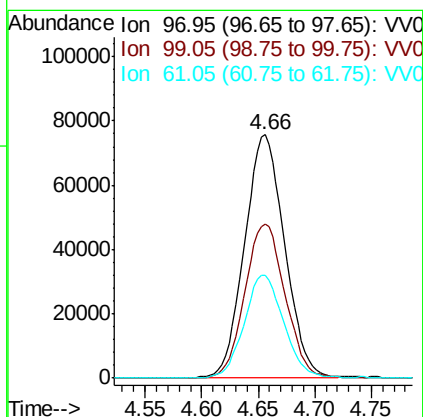
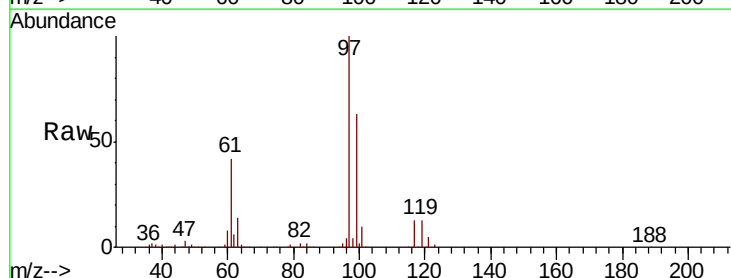
Tgt Ion: 97 Resp: 186755

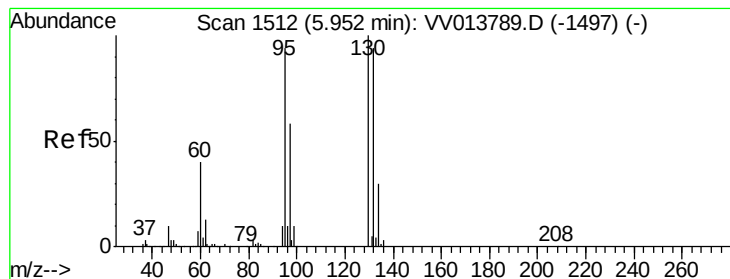
Ion Ratio Lower Upper

97 100

99 63.6 51.7 77.5

61 41.7 35.0 52.6





#34

Trichloroethene

Concen: 71.386 ug/L

RT: 5.96 min Scan# 1513

Delta R.T. 0.00 min

Lab File: VV013805.D

Acq: 26 Nov 2019 22:51

Instrument :

MSVOA_V

ClientSampled :

BFE12

Tot Ion: 95 Resp: 1622912

Ion Ratio Lower Upper

95 100

97 65.1 45.6 84.8

132 106.0 70.5 130.9

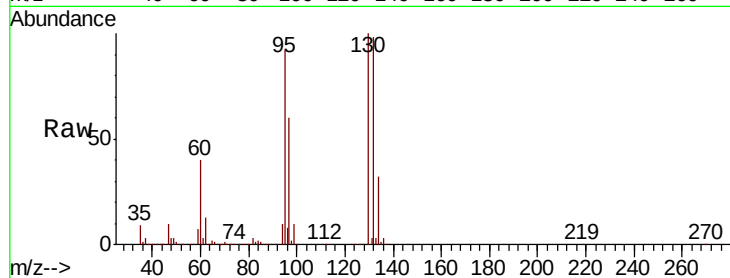
130 108.1 75.9 140.9

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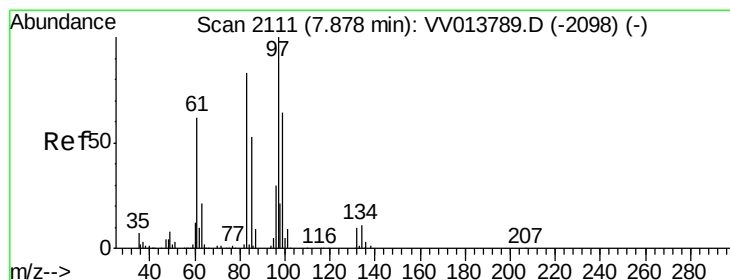
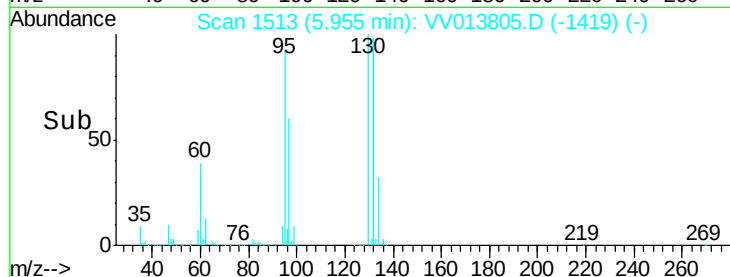
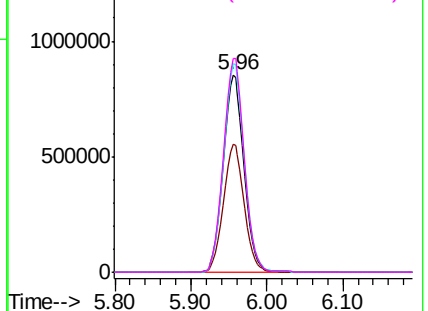


Abundance Ion 95.00 (94.70 to 95.70): VV0

Ion 96.95 (96.65 to 97.65): VV0

Ion 131.95 (131.65 to 132.65): VV0

Ion 129.95 (129.65 to 130.65): VV0



#45

1,1,2-Trichloroethane

Concen: 0.193 ug/L

RT: 7.88 min Scan# 2113

Delta R.T. 0.01 min

Lab File: VV013805.D

Acq: 26 Nov 2019 22:51

Tgt Ion: 97 Resp: 2912

Ion Ratio Lower Upper

97 100

99 66.0 44.2 82.0

83 72.3 59.7 110.9

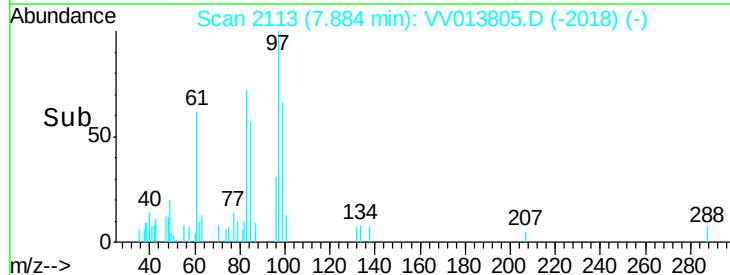
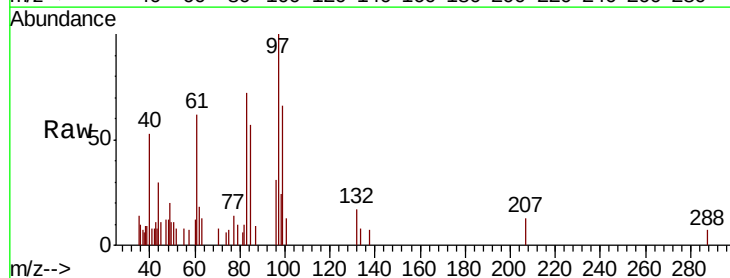
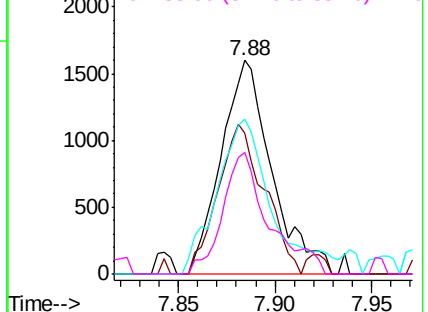
85 56.7 38.3 71.1

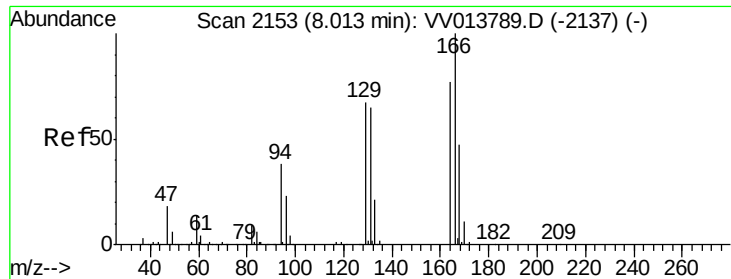
Abundance Ion 96.95 (96.65 to 97.65): VV0

Ion 99.05 (98.75 to 99.75): VV0

Ion 82.95 (82.65 to 83.65): VV0

Ion 85.00 (84.70 to 85.70): VV0





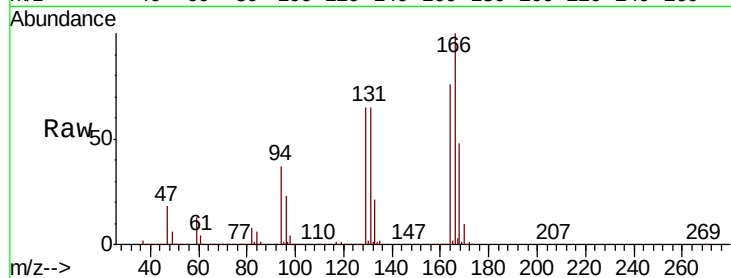
#47
 Tetrachloroethene
 Concen: 34.590 ug/L
 RT: 8.02 min Scan# 2154
 Delta R.T. 0.00 min
 Lab File: VV013805.D
 Acq: 26 Nov 2019 22:51

Instrument :
 MSVOA_V
 ClientSampleId :
 BFE12

Tot Ion	Ratio	Resp Lower	Upper
164	100		
129	85.6	60.3	112.1
131	85.1	59.9	111.3
166	130.9	89.1	165.5

Manual Integrations
 APPROVED

MMDadoda
 11/27/2019 11:40:43 AM



Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 128.95 (128.65 to 129.65): V

Ion 130.95 (130.65 to 131.65): V

Ion 165.90 (165.60 to 166.60): V

